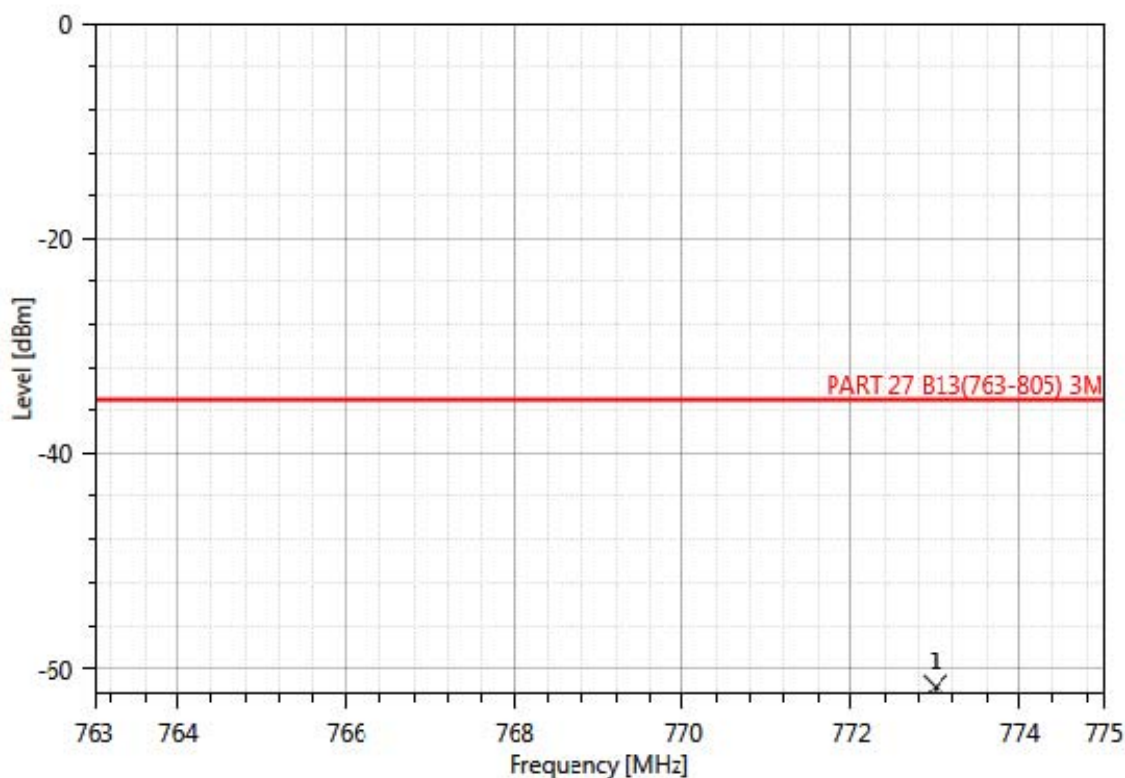


Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(763MHz-775MHz)

Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.00	S	Peak	-61.69	-62.02	3.26	-2.93	-35.00	-26.69

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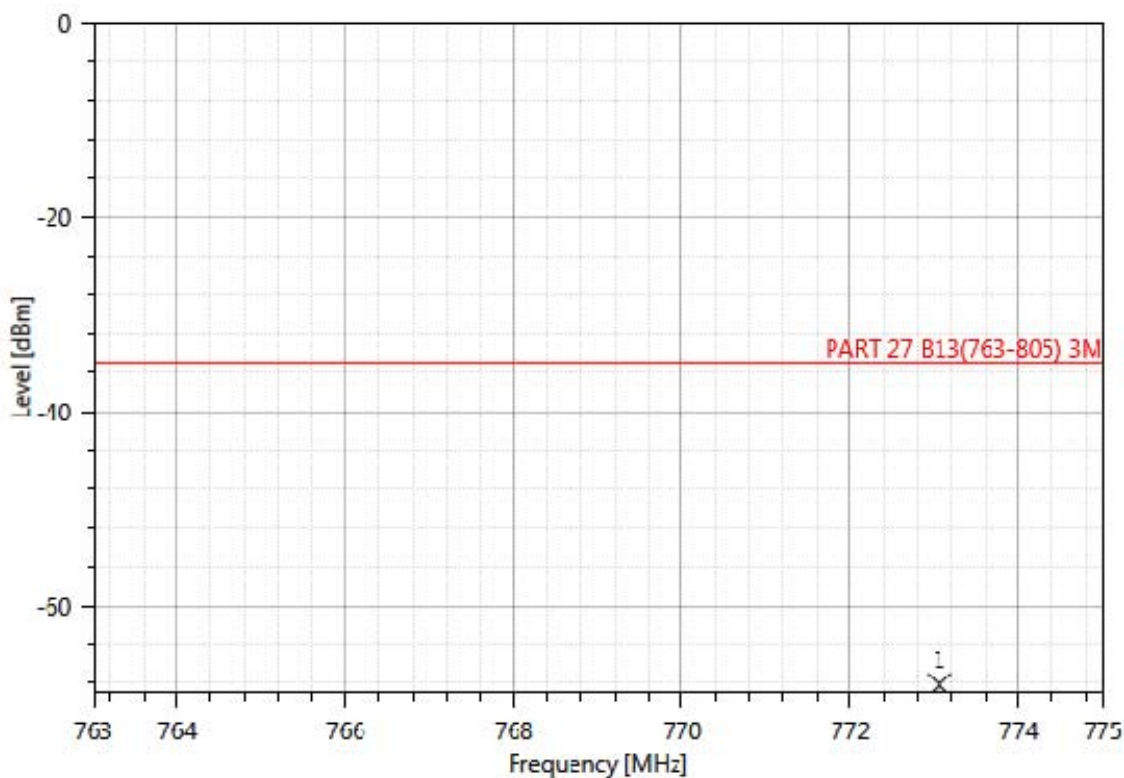
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f (886-2) 2298-0488

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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.06	S	Peak	-68.17	-68.49	3.26	-2.93	-35.00	-33.17

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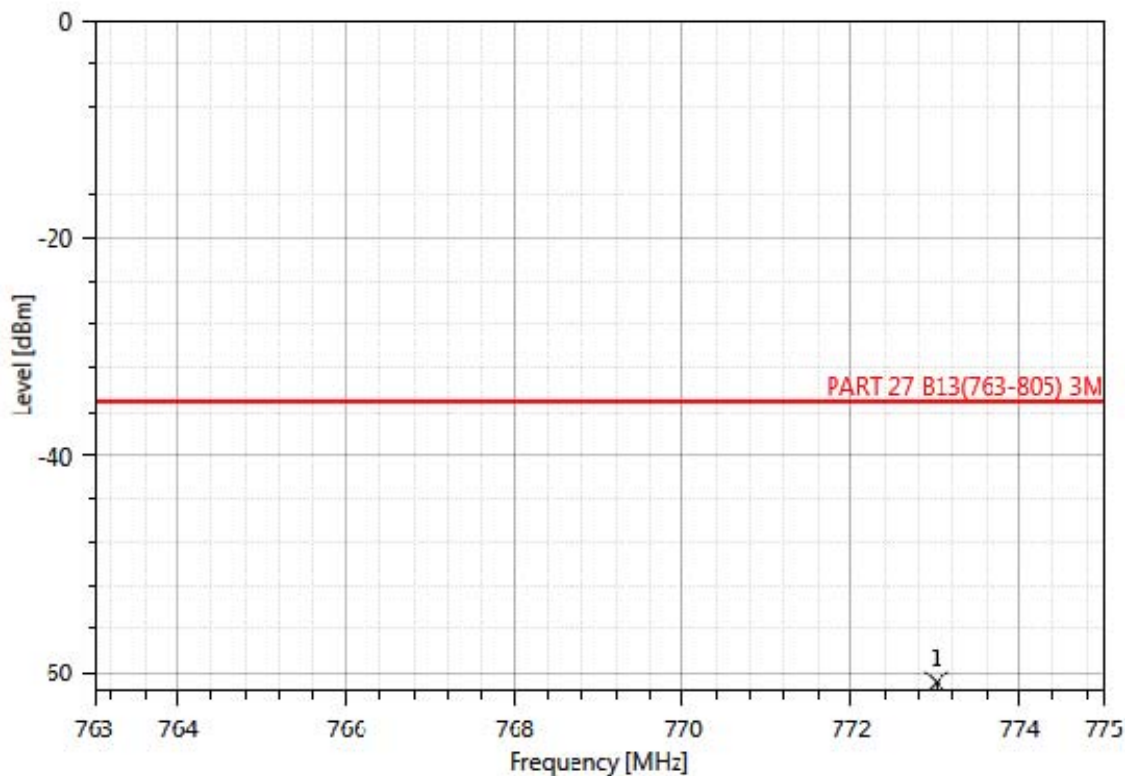
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.01	S	Peak	-60.96	-61.28	3.26	-2.93	-35.00	-25.96

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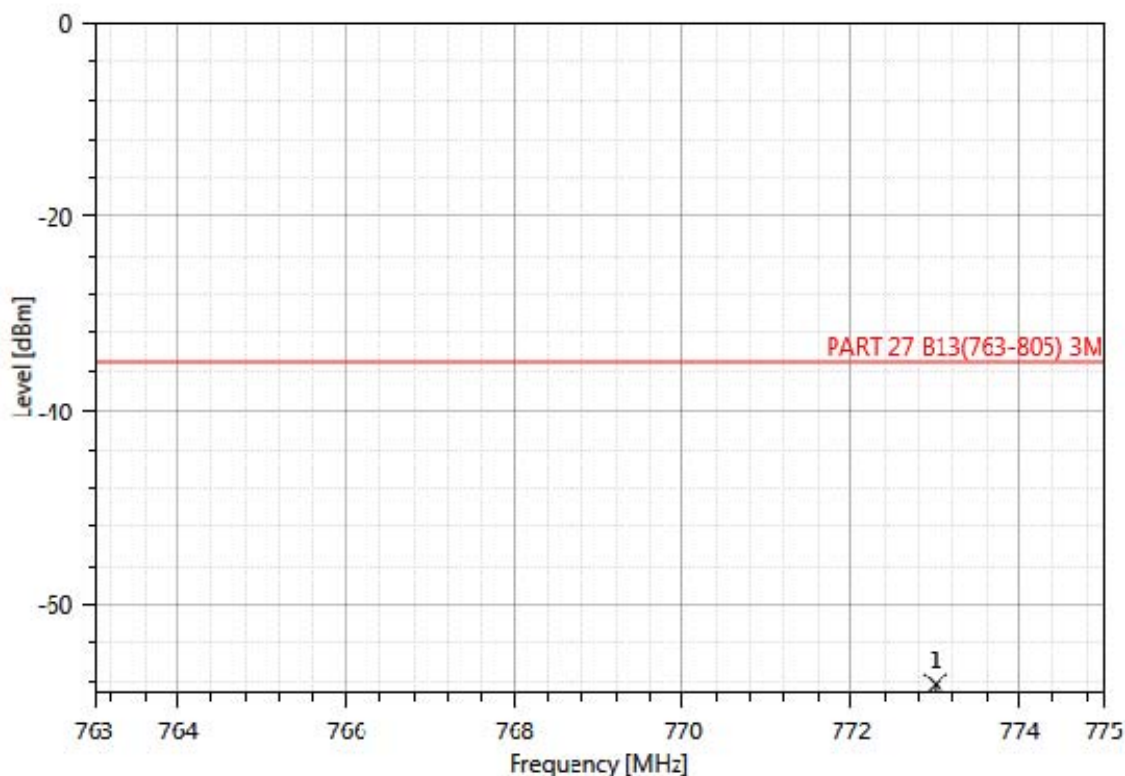
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.00	S	Peak	-68.31	-68.63	3.26	-2.93	-35.00	-33.31

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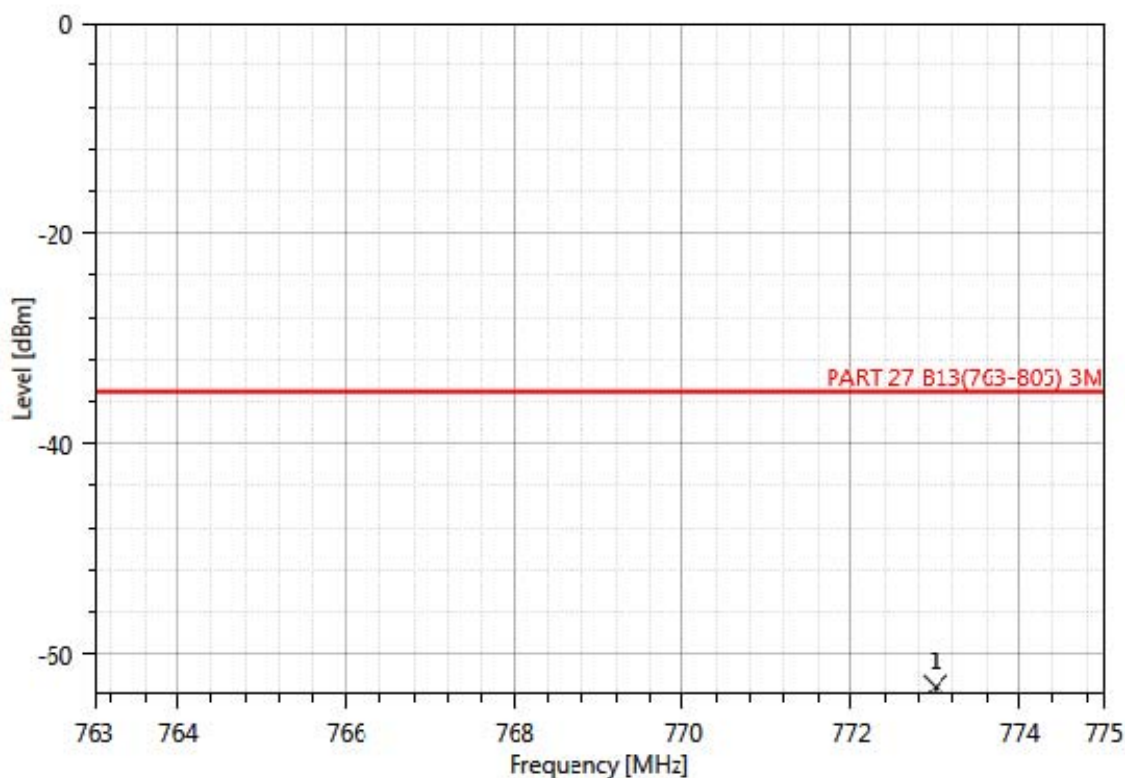
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.00	S	Peak	-63.01	-63.34	3.26	-2.93	-35.00	-28.01

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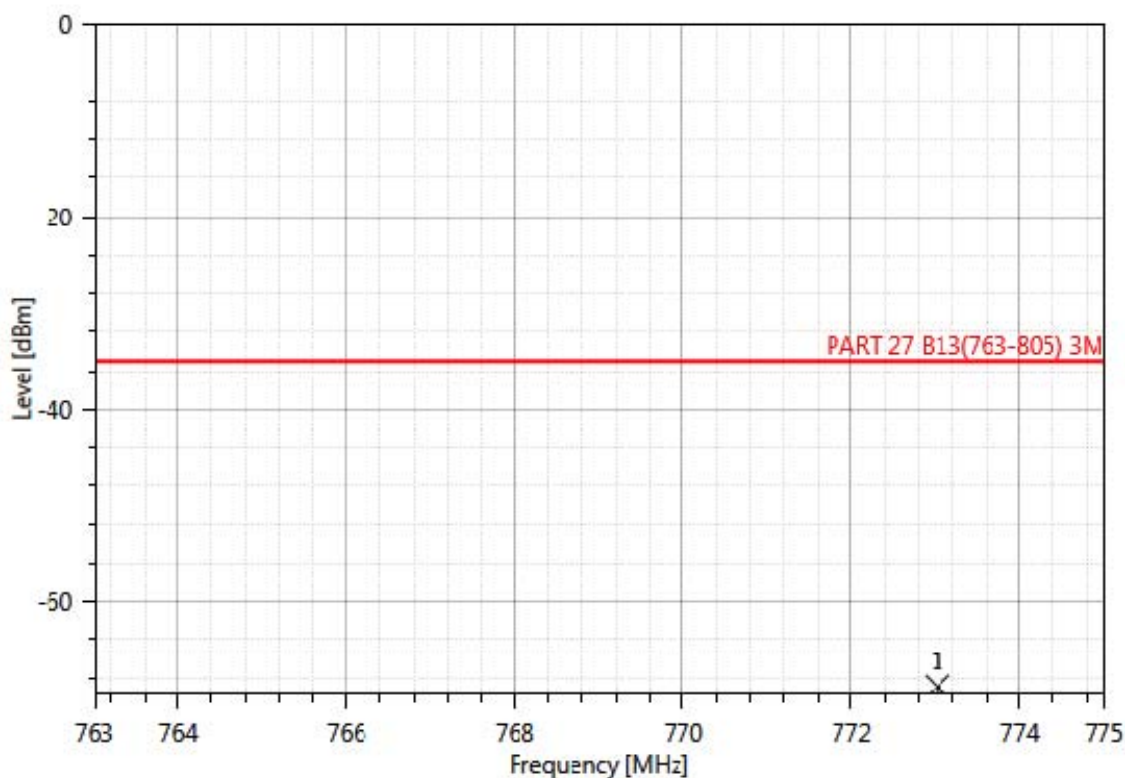
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
773.02	S	Peak	-68.81	-69.13	3.26	-2.93	-35.00	-33.81

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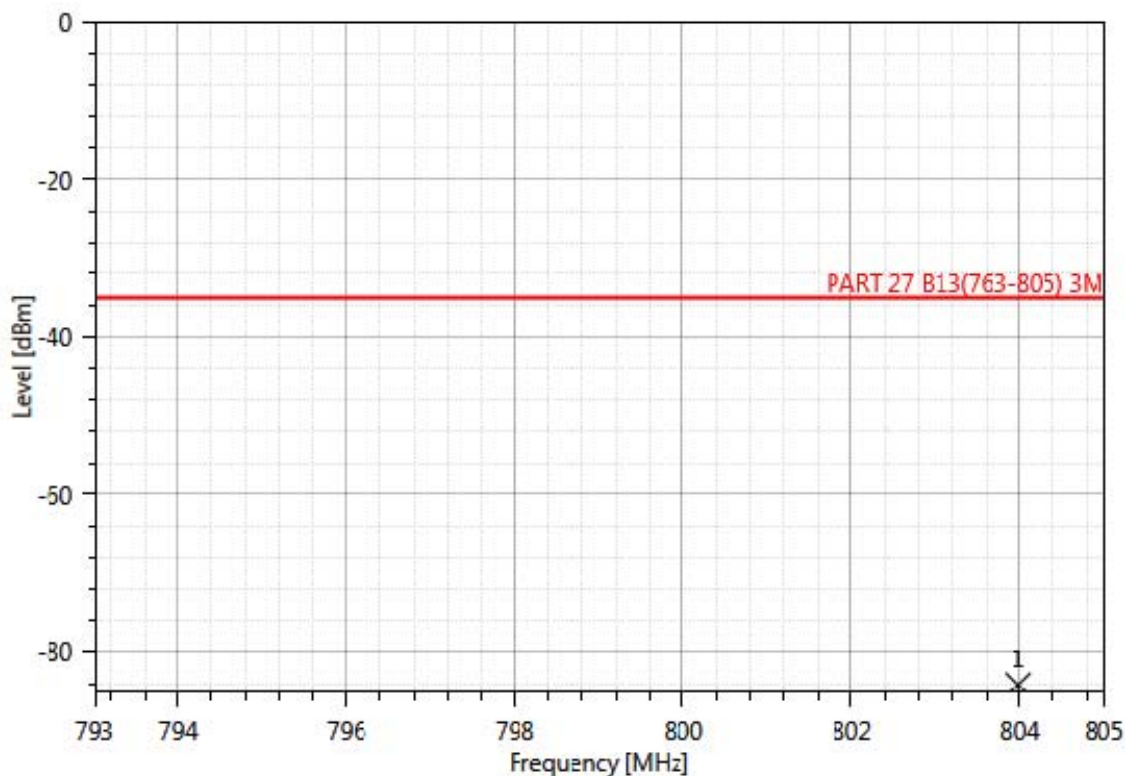
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(793MHz-805MHz)

Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
803.98	S	Peak	-84.13	-84.57	3.34	-2.90	-35.00	-49.13

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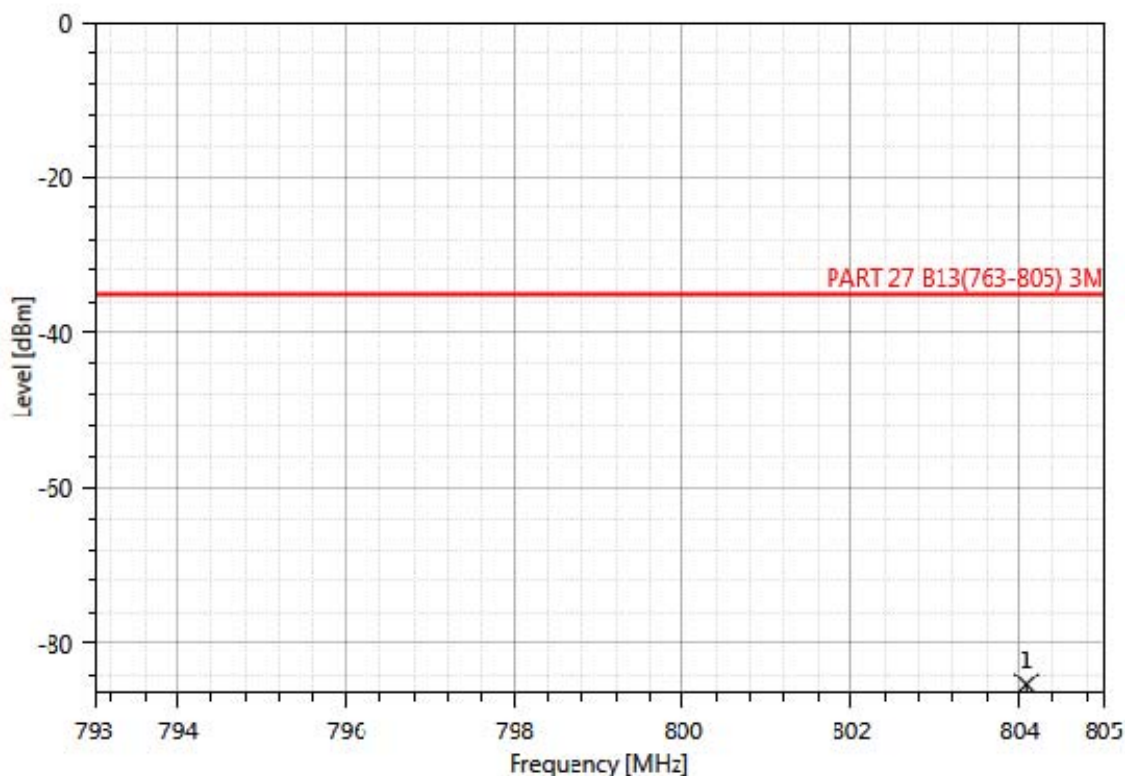
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
804.08	S	Peak	-85.45	-85.89	3.34	-2.90	-35.00	-50.45

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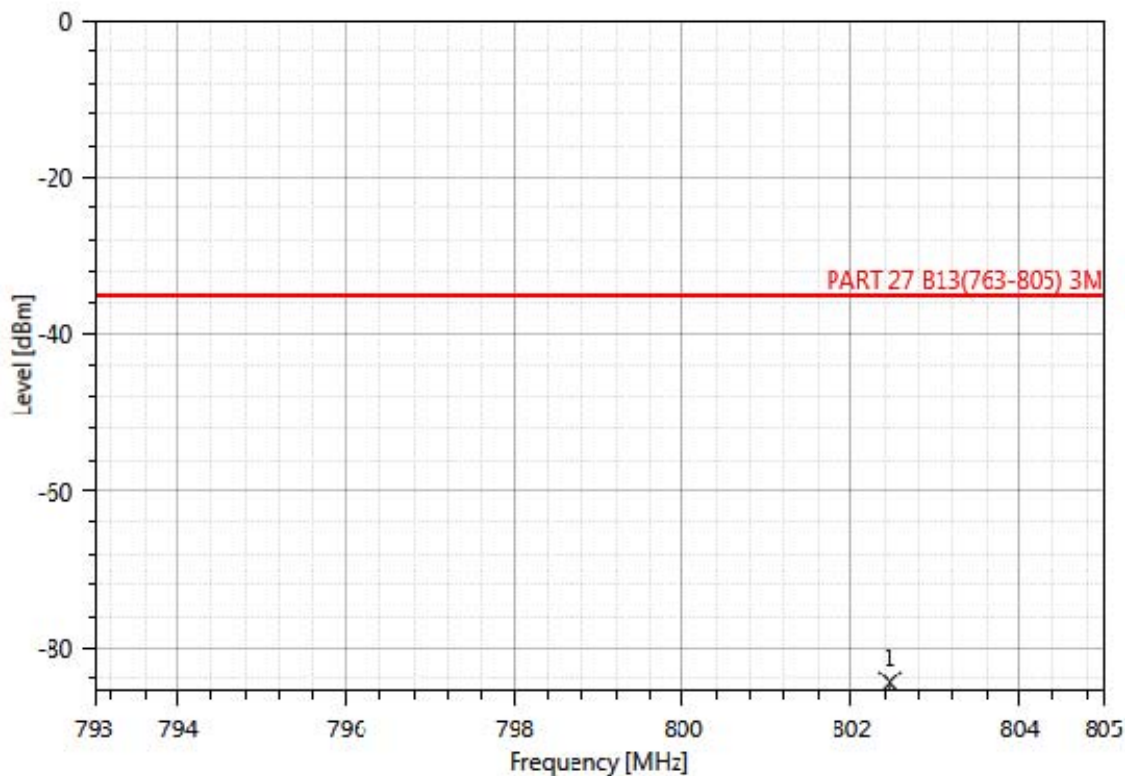
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
802.46	S	Peak	-84.52	-84.96	3.34	-2.90	-35.00	-49.52

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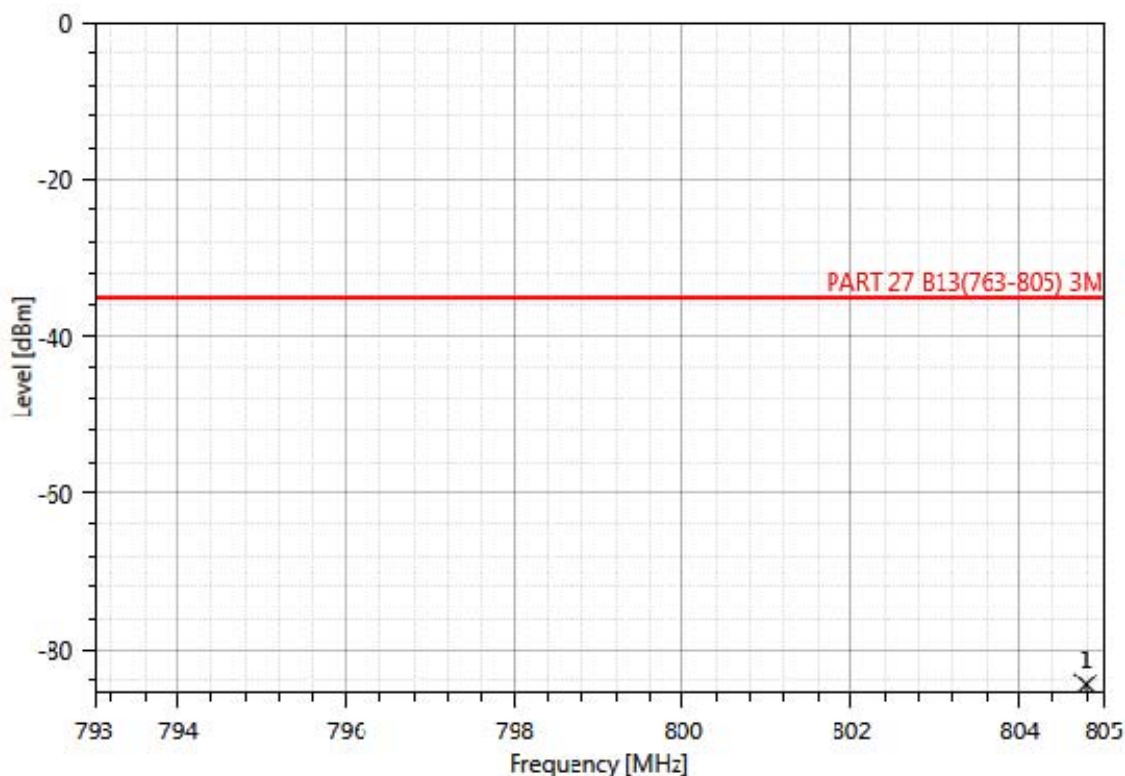
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	782 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
804.78	S	Peak	-84.45	-84.89	3.33	-2.89	-35.00	-49.45

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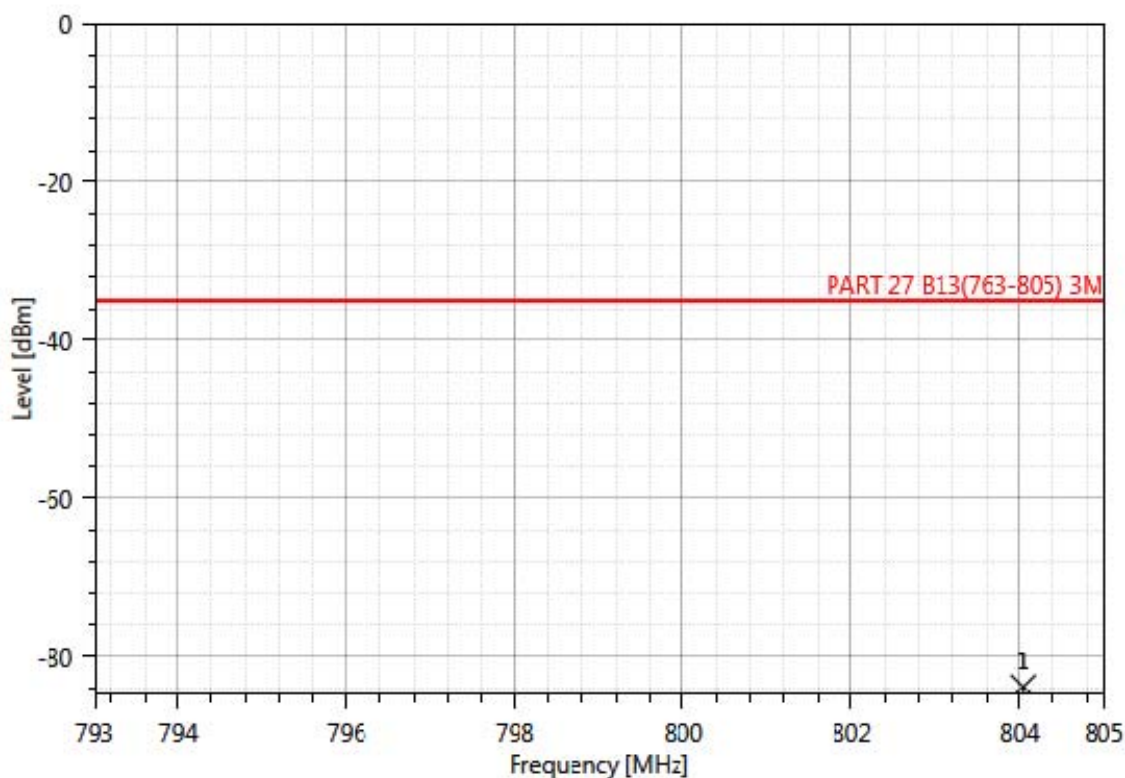
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
804.04	S	Peak	-83.82	-84.26	3.34	-2.90	-35.00	-48.82

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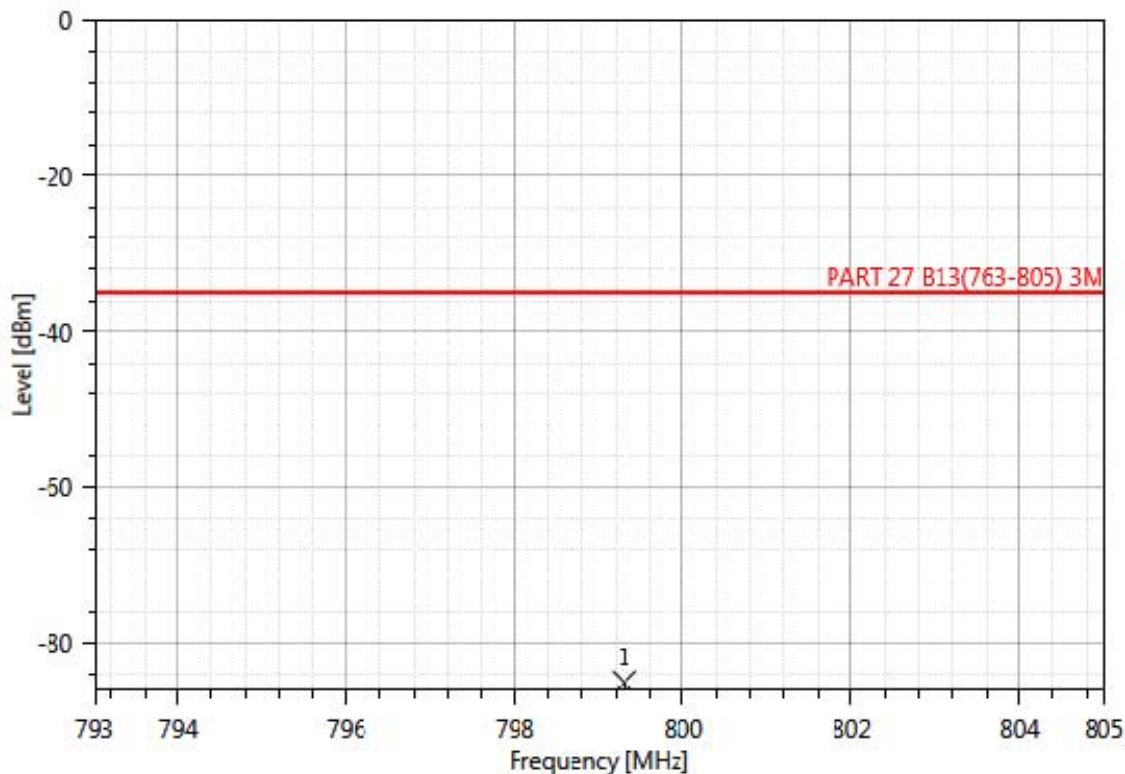
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Operation Mode :	LTE B13	Test Date :	01/11/2017
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	TX HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
799.30	S	Peak	-85.01	-85.45	3.34	-2.90	-35.00	-50.01

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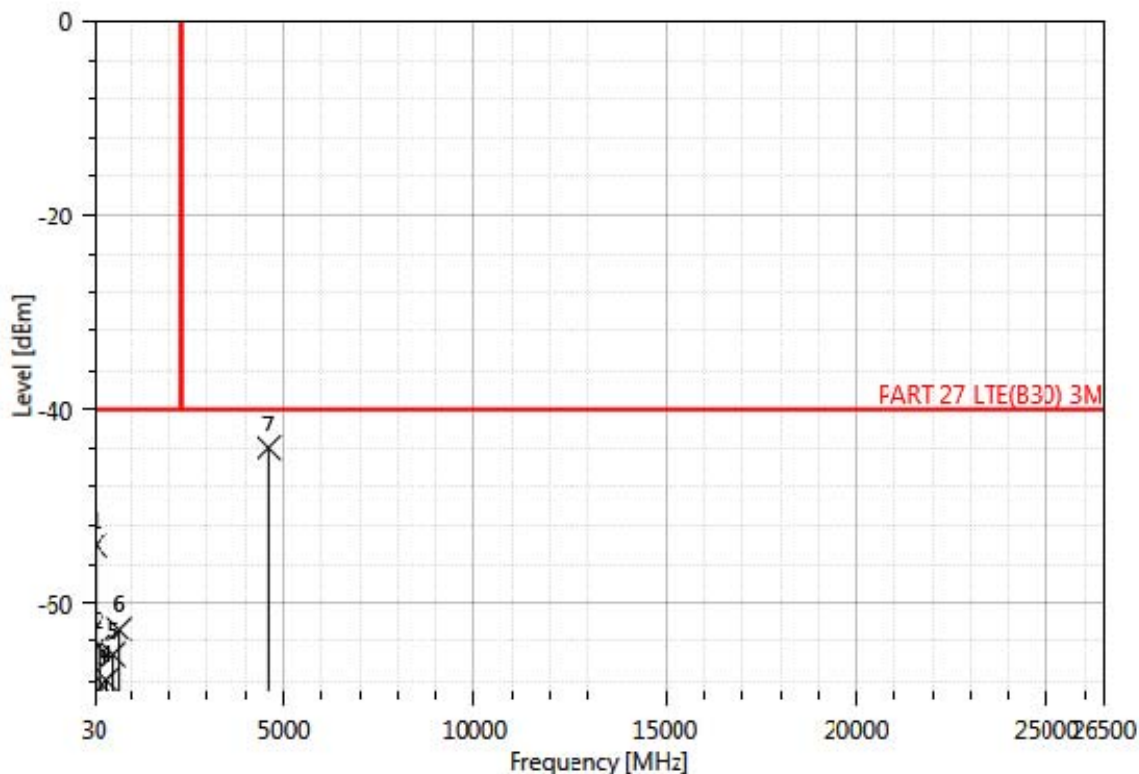
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 30 QPSK RB 1 0 (The Worst Case)

Operation Mode :	LTE B30	Test Date :	05/13/2016 14:58:16
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	
61.04	S	Peak	-54.02	-44.49	-8.44	-1.09	-40.00	-14.02
143.49	S	Peak	-64.38	-60.49	-2.48	-1.41	-40.00	-24.38
245.34	S	Peak	-68.28	-69.90	3.37	-1.75	-40.00	-28.28
366.59	S	Peak	-67.87	-69.54	3.85	-2.17	-40.00	-27.87
532.46	S	Peak	-65.33	-66.49	3.68	-2.52	-40.00	-25.33
689.60	S	Peak	-62.67	-62.97	3.09	-2.79	-40.00	-22.67
4615.00	H	Peak	-44.00	-49.27	12.70	-7.43	-40.00	-4.00

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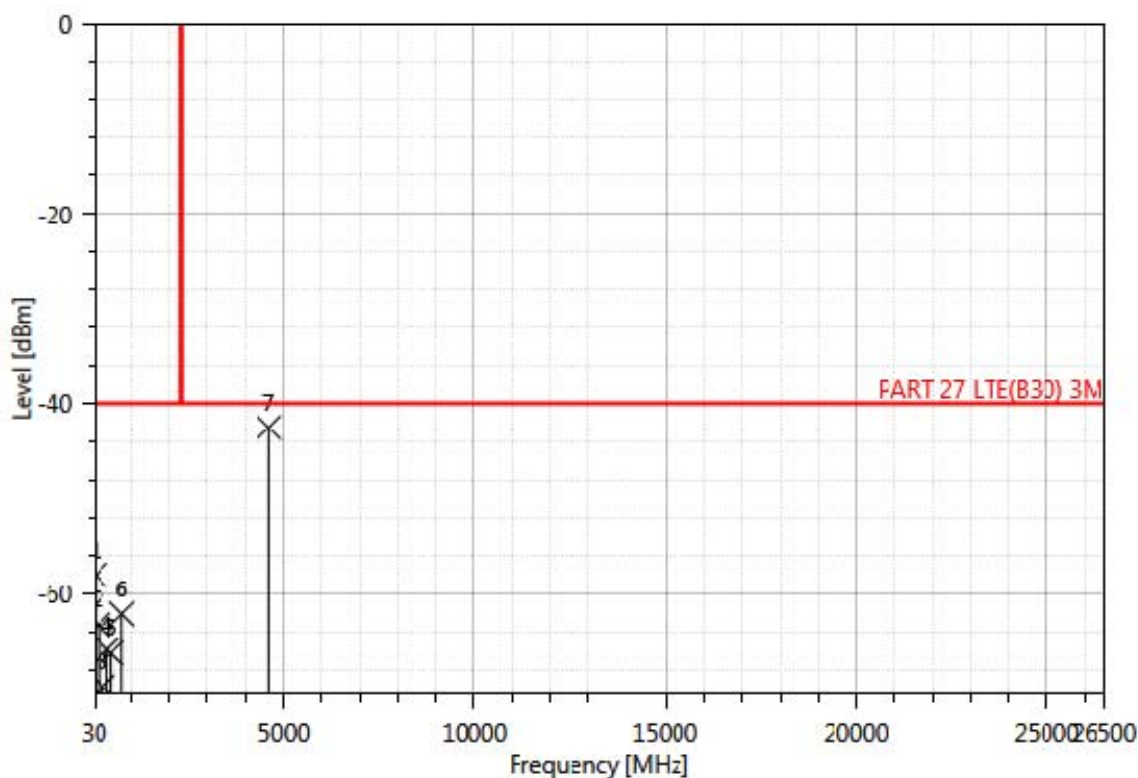
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Operation Mode :	LTE B30	Test Date :	05/13/2016 14:58:29
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	
61.04	S	Peak	-58.06	-48.53	-8.44	-1.09	-40.00	-18.06
139.61	S	Peak	-63.27	-59.18	-2.70	-1.39	-40.00	-23.27
255.04	S	Peak	-69.80	-71.59	3.56	-1.76	-40.00	-29.80
374.35	S	Peak	-65.91	-67.52	3.84	-2.23	-40.00	-25.91
479.11	S	Peak	-66.27	-67.80	3.77	-2.24	-40.00	-26.27
752.65	S	Peak	-62.14	-62.27	3.19	-3.06	-40.00	-22.14
4615.00	H	Peak	-42.51	-47.78	12.70	-7.43	-40.00	-2.51

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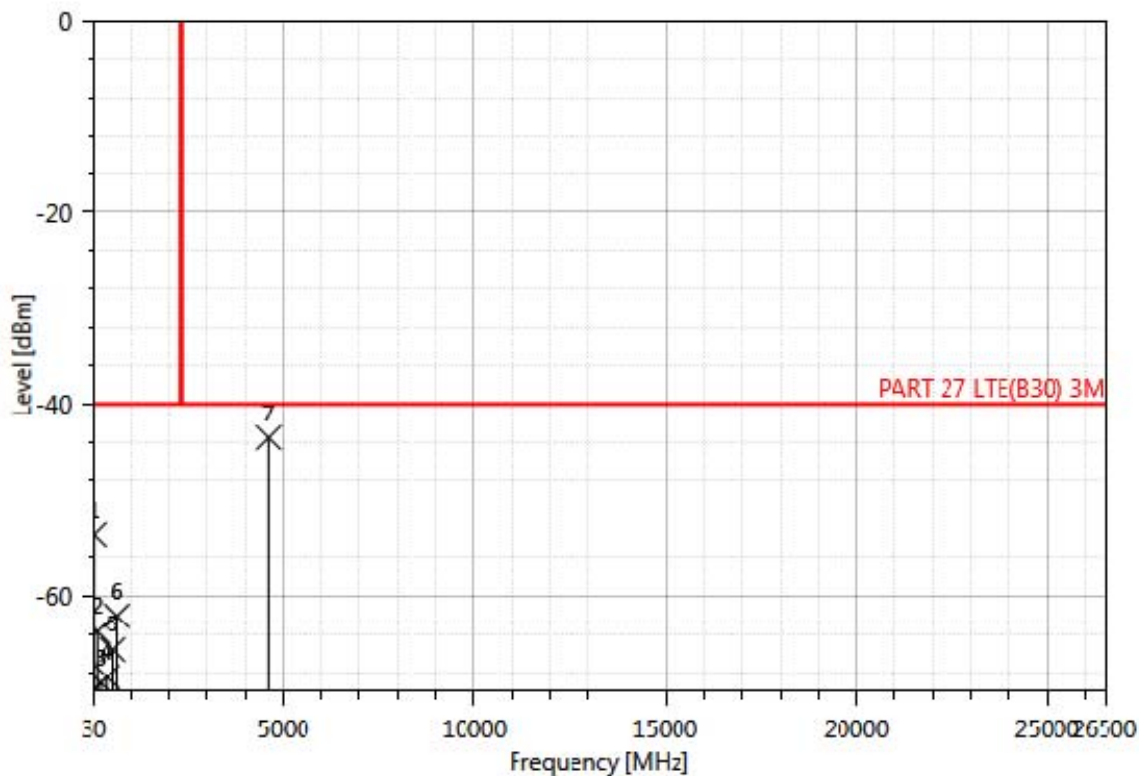
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Operation Mode :	LTE B30	Test Date :	05/13/2016 14:58:41
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
61.04	S	Peak	-53.68	-44.15	-8.44	-1.09	-40.00	-13.68
144.46	S	Peak	-63.75	-59.92	-2.43	-1.41	-40.00	-23.75
241.46	S	Peak	-69.12	-70.69	3.31	-1.74	-40.00	-29.12
381.14	S	Peak	-68.48	-70.04	3.84	-2.27	-40.00	-28.48
527.61	S	Peak	-65.61	-66.85	3.71	-2.47	-40.00	-25.61
634.31	S	Peak	-62.12	-62.84	3.17	-2.45	-40.00	-22.12
4620.00	H	Peak	-43.49	-48.76	12.70	-7.44	-40.00	-3.49

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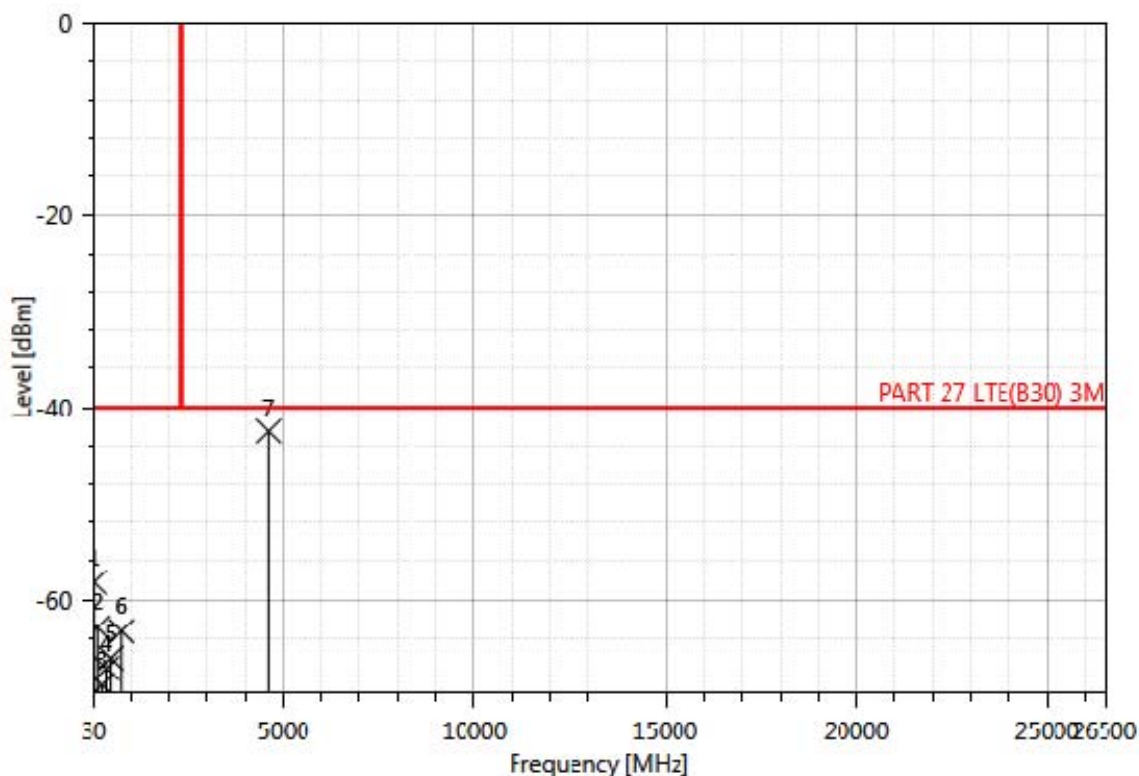
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Operation Mode :	LTE B30	Test Date :	05/13/2016 14:58:54
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	
62.01	S	Peak	-58.17	-48.93	-8.15	-1.09	-40.00	-18.17
144.46	S	Peak	-62.87	-59.04	-2.43	-1.41	-40.00	-22.87
260.86	S	Peak	-68.85	-70.73	3.66	-1.78	-40.00	-28.85
372.41	S	Peak	-67.10	-68.73	3.84	-2.21	-40.00	-27.10
481.05	S	Peak	-66.05	-67.59	3.78	-2.24	-40.00	-26.05
749.74	S	Peak	-63.24	-63.34	3.18	-3.08	-40.00	-23.24
4620.00	H	Peak	-42.49	-47.75	12.70	-7.44	-40.00	-2.49

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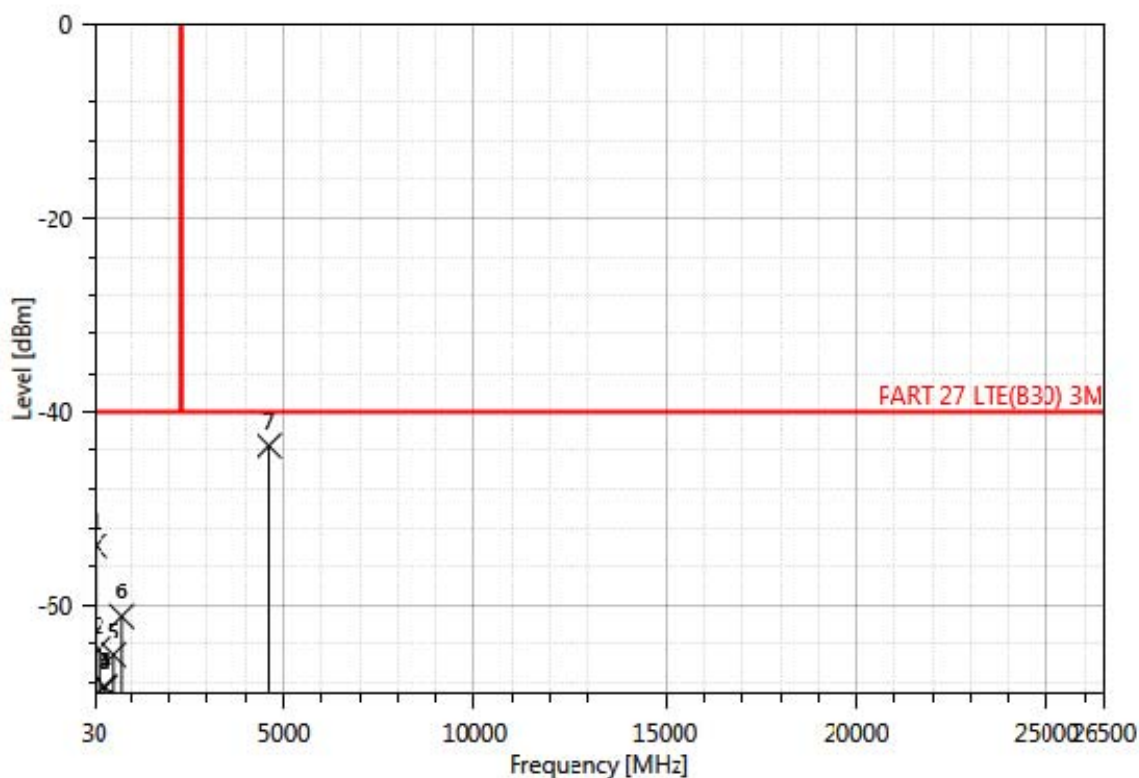
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Operation Mode :	LTE B30	Test Date :	05/13/2016 14:59:06
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
62.01	S	Peak	-53.88	-44.64	-8.15	-1.09	-40.00	-13.88
143.49	S	Peak	-64.65	-60.76	-2.48	-1.41	-40.00	-24.65
294.81	S	Peak	-68.39	-69.97	3.52	-1.94	-40.00	-28.39
340.40	S	Peak	-68.37	-70.22	3.82	-1.97	-40.00	-28.37
546.04	S	Peak	-65.16	-66.10	3.61	-2.66	-40.00	-25.16
754.59	S	Peak	-61.15	-61.30	3.20	-3.05	-40.00	-21.15
4625.00	H	Peak	-43.58	-48.84	12.70	-7.44	-40.00	-3.58

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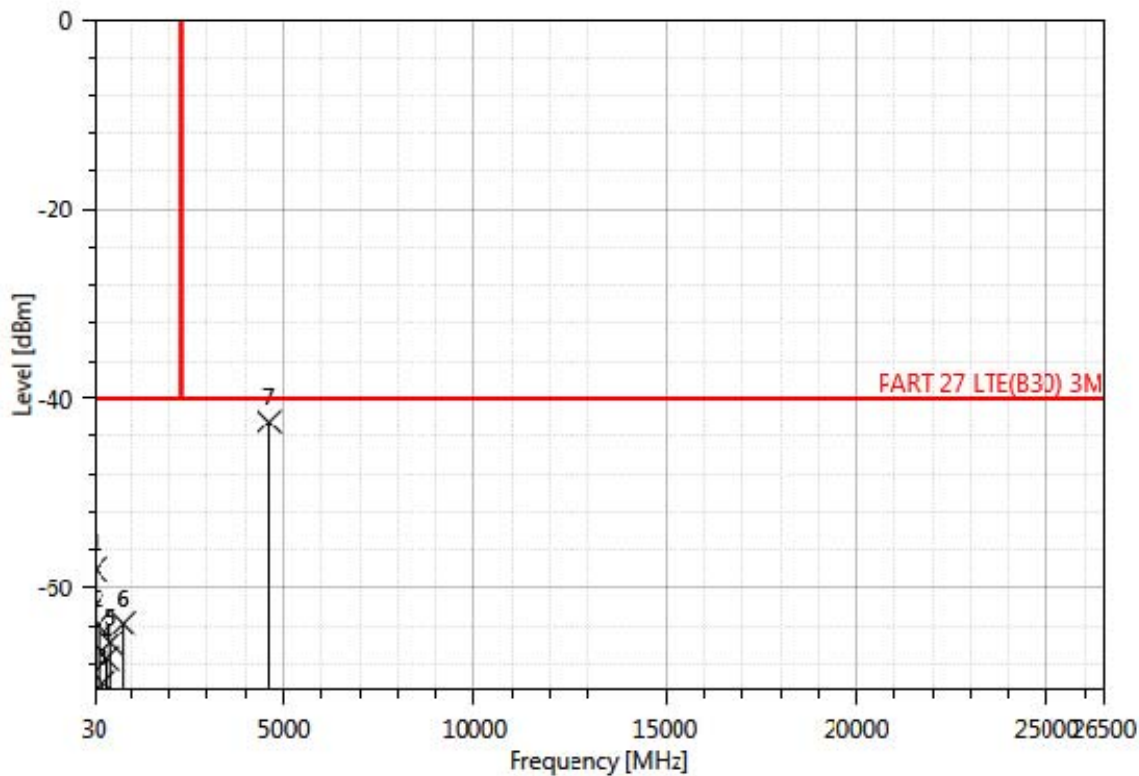
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Operation Mode :	LTE B30	Test Date :	05/13/2016 14:59:21
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
62.01	S	Peak	-57.99	-48.75	-8.15	-1.09	-40.00	-17.99
138.64	S	Peak	-63.82	-59.74	-2.69	-1.39	-40.00	-23.82
255.04	S	Peak	-69.99	-71.79	3.56	-1.76	-40.00	-29.99
372.41	S	Peak	-67.44	-69.07	3.84	-2.21	-40.00	-27.44
463.59	S	Peak	-65.82	-67.31	3.71	-2.21	-40.00	-25.82
794.36	S	Peak	-63.73	-64.15	3.32	-2.90	-40.00	-23.73
4625.00	H	Peak	-42.44	-47.70	12.70	-7.44	-40.00	-2.44

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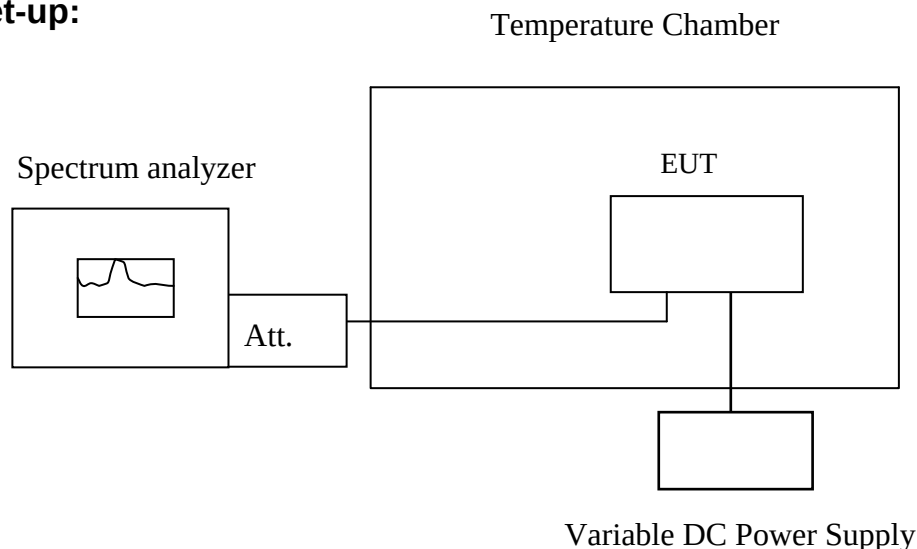
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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.

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 (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2015	05/16/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	836599995	0	2091
3.85	20	836599995	0	2091
3.27	20	836599992	-3	2091
2.9 (End point)	20	836599999	4	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	836599992	-3	2091
3.85	40	836599990	-5	2091
3.85	30	836599988	-7	2091
3.85	20	836599995	0	2091
3.85	10	836599993	-2	2091
3.85	0	836599999	4	2091
3.85	-10	836599994	-1	2091
3.85	-20	836599993	-2	2091
3.85	-30	836599993	-2	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	1879999996	-1	4700
3.85	20	1879999997	0	4700
3.27	20	1879999995	-2	4700
2.9 (End point)	20	1880000003	6	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	1879999996	-1	4700
3.85	40	1879999998	1	4700
3.85	30	1879999994	-3	4700
3.85	20	1879999997	0	4700
3.85	10	1879999996	-1	4700
3.85	0	1879999999	2	4700
3.85	-10	1880000001	4	4700
3.85	-20	1880000002	5	4700
3.85	-30	1880000000	3	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA2000 cell BC0 Mid Channel 836.52 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.35	25.00	836.520008	-11.00	2091.00
3.80	25.00	836.519997	0.00	2091.00
3.50	25.00	836.520005	-8.00	2091.00
3.1 (End point)	25.00	836.519995	2.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA2000 cell BC0 Mid Channel 836.52 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	836.519997	0.00	2091
3.85	40	836.520009	-12.00	2091
3.85	30	836.520006	-9.00	2091
3.85	20	836.519997	0.00	2091
3.85	10	836.519995	2.00	2091
3.85	0	836.520006	-9.00	2091
3.85	-10	836.520008	-11.00	2091
3.85	-20	836.520005	-8.00	2091
3.85	-30	836.519999	-2.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA2000 cell BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.35	25	1880.000004	-9.00	4700
3.80	25	1879.999995	0.00	4700
3.50	25	1880.000003	-8.00	4700
3.1 (End point)	25	1879.999997	-2.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA2000 cell BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	1879.999995	13.00	2091
3.85	40	1880.000003	5.00	2091
3.85	30	1879.999998	10.00	2091
3.85	20	1880.000008	0.00	2091
3.85	10	1879.999995	13.00	2091
3.85	0	1880.000003	5.00	2091
3.85	-10	1880.000005	3.00	2091
3.85	-20	1879.999995	13.00	2091
3.85	-30	1880.000004	4.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	1880000000	-2	4700
3.85	20	1880000002	0	4700
3.27	20	1879999998	-4	4700
2.9 (End point)	20	1880000000	-2	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	1880000002	0	4700
3.85	40	1879999999	-3	4700
3.85	30	1880000001	-1	4700
3.85	20	1880000002	0	4700
3.85	10	1879999999	-3	4700
3.85	0	1879999998	-4	4700
3.85	-10	1880000002	0	4700
3.85	-20	1879999996	-6	4700
3.85	-30	1880000001	-1	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	173260000	-2	4331
3.85	20	173260002	0	4331
3.27	20	173259998	-4	4331
2.9 (End point)	20	173260002	0	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	173259999	-3	4331
3.85	40	173260000	-2	4331
3.85	30	173260004	2	4331
3.85	20	173260002	0	4331
3.85	10	173260000	-2	4331
3.85	0	173260003	1	4331
3.85	-10	173260000	-2	4331
3.85	-20	173260004	2	4331
3.85	-30	173260001	-1	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	836599999	1	2091
3.85	20	836599998	0	2091
3.27	20	836599999	1	2091
2.9 (End Point)	20	836599996	-2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	836599998	0	2091
3.85	40	836599999	1	2091
3.85	30	836600001	3	2091
3.85	20	836599998	0	2091
3.85	10	836599998	0	2091
3.85	0	836599999	1	2091
3.85	-10	836600000	2	2091
3.85	-20	836599996	-2	2091
3.85	-30	836599997	-1	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	1880.000003	5.80	4700	
3.85	25	1879.999997	0.00	4700	
3.46	25	1879.999995	-2.80	4700	
3.1 (End Point)	25	1880.000002	5.00	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	1880.000002	5.20	4700	
3.85	-20	1880.000002	5.50	4700	
3.85	-10	1880.000004	7.50	4700	
3.85	0	1879.999999	2.30	4700	
3.85	10	1879.999999	2.40	4700	
3.85	20	1879.999996	0.00	4700	
3.85	30	1880.000001	5.00	4700	
3.85	40	1879.999998	1.30	4700	
3.85	50	1879.999998	1.20	4700	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	1732.499995	-3.70	4331	
3.85	25	1732.499998	0.00	4331	
3.46	25	1732.500002	3.20	4331	
3.1 (End Point)	25	1732.499998	-0.80	4331	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	1732.500004	9.00	4331	
3.85	-20	1732.500001	5.60	4331	
3.85	-10	1732.500001	6.10	4331	
3.85	0	1732.500000	4.70	4331	
3.85	10	1732.500001	6.10	4331	
3.85	20	1732.499995	0.00	4331	
3.85	30	1732.499996	0.80	4331	
3.85	40	1732.499999	3.70	4331	
3.85	50	1732.500003	7.40	4331	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	836.500003	0.40	2091	
3.85	25	836.500002	0.00	2091	
3.46	25	836.500002	-0.70	2091	
3.1 (End Point)	25	836.499995	-6.90	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	836.500000	-2.90	2091	
3.85	-20	836.500002	-1.60	2091	
3.85	-10	836.499998	-4.70	2091	
3.85	0	836.500000	-3.40	2091	
3.85	10	836.499996	-6.70	2091	
3.85	20	836.500003	0.00	2091	
3.85	30	836.500000	-3.40	2091	
3.85	40	836.500004	0.50	2091	
3.85	50	836.500000	-2.90	2091	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	2535.000003	3.80	6338	
3.85	25	2534.999999	0.00	6338	
3.46	25	2535.000006	6.80	6338	
3.1 (End Point)	25	2535.000002	3.20	6338	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	2535.000000	2.20	6338	
3.85	-20	2535.000003	5.20	6338	
3.85	-10	2534.999999	0.70	6338	
3.85	0	2534.999998	0.10	6338	
3.85	10	2535.000002	4.00	6338	
3.85	20	2534.999998	0.00	6338	
3.85	30	2535.000004	5.80	6338	
3.85	40	2535.000001	3.60	6338	
3.85	50	2535.000003	5.00	6338	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	707.500004	5.60	1769	
3.85	25	707.499998	0.00	1769	
3.46	25	707.499998	0.50	1769	
3.1 (End Point)	25	707.500003	4.90	1769	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	707.500000	0.90	1769	
3.85	-20	707.500006	6.90	1769	
3.85	-10	707.500005	6.30	1769	
3.85	0	707.499996	-2.30	1769	
3.85	10	707.499995	-3.60	1769	
3.85	20	707.499999	0.00	1769	
3.85	30	707.500003	4.50	1769	
3.85	40	707.500003	4.10	1769	
3.85	50	707.500002	3.60	1769	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.35	25	782.000004	10	1955	
3.8	25	781.999994	0	1955	
3.5	25	781.999996	2	1955	
3.1 (End Point)	25	782.000001	7	1955	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	782.000003	-9	1955	
3.85	-20	782.000001	-11	1955	
3.85	-10	782.000013	1	1955	
3.85	0	781.999999	-22	1955	
3.85	10	781.999995	-17	1955	
3.85	20	782.000012	0	1955	
3.85	30	782.000012	0	1955	
3.85	40	782.000006	-6	1955	
3.85	50	781.999999	-13	1955	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B30 Mid Channel	27710.0	MHz	10M QPSK CH 27710
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	27709.999999	-1.90	69275	
3.85	25	27710.000001	0.00	69275	
3.46	25	27709.999998	-3.80	69275	
3.1 (End Point)	25	27709.999998	-3.50	69275	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B30 Mid Channel	2310.0	MHz	10M QPSK CH 27710
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	2309.999998	-1.80	5775	
3.85	-20	2309.999999	-0.50	5775	
3.85	-10	2310.000002	2.50	5775	
3.85	0	2310.000002	2.60	5775	
3.85	10	2310.000002	2.40	5775	
3.85	20	2309.999999	0.00	5775	
3.85	30	2310.000000	0.80	5775	
3.85	40	2309.999998	-1.80	5775	
3.85	50	2309.999999	-0.20	5775	

Note: The battery is rated 3.85V dc.

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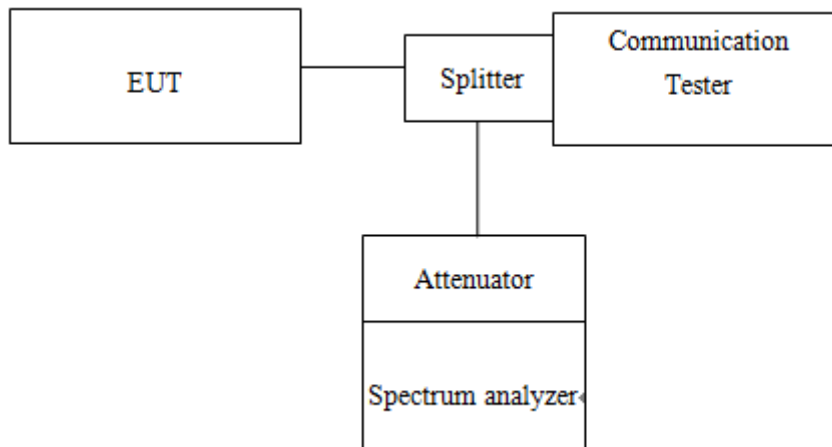
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2015	05/16/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

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Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/08/2016	12/07/2017
Power Sensor	Anritsu	MA2411B	917032	12/08/2016	12/07/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/01/2017	12/31/2017
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/01/2017	12/31/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/01/2017	12/31/2017
Splitter	Agilent	11636B	N/A	01/01/2017	12/31/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/04/2016	11/03/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/05/2016	05/04/2017
Radio Communication Analyser	Anritsu	MT8820C	6201465317	12/09/2016	12/08/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
824.20	128	9.37	10.10	12.60
836.60	190	9.64	9.67	12.26
848.80	251	9.20	9.51	12.75

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
1850.20	9296	9.85	10.05	12.55
1880.00	9400	9.54	9.78	12.59
1909.80	9538	9.51	9.66	12.78

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC0	EVDO BC0
824.70	1013	4.29	4.22
836.52	384	4.27	4.52
848.31	777	4.24	4.33

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC1	EVDO BC1
1851.25	25	4.30	4.19
1880.00	600	4.21	4.37
1908.75	1175	4.13	4.31

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	1312	2.65	3.71	3.68
1880.0	1413	2.84	3.78	3.86
1907.6	1513	2.79	3.61	3.65

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.81	3.81	3.84
1732.6	1413	2.94	3.71	3.80
1752.6	1513	3.06	3.84	3.86

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.30	4.03	4.05
836.60	4183	3.31	3.82	3.88
846.60	4233	3.34	4.13	4.16

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	4.90	13	1851.5	18615	5.06	13
1880.0	18900	5.48	13	1880.0	18900	5.37	13
1909.3	19193	5.06	13	1908.5	19185	5.19	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	5.29	13	1855.0	18650	5.61	13
1880.0	18900	5.64	13	1880.0	18900	5.91	13
1907.5	19175	5.56	13	1905.0	19150	5.97	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.52	13	1860.0	18700	6.99	13
1880.0	18900	6.55	13	1880.0	18900	7.10	13
1902.5	19125	6.68	13	1900.0	19100	7.08	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	5.18	13	1711.5	19965	5.19	13
1732.5	20175	5.56	13	1732.5	20175	5.45	13
1754.3	20393	5.66	13	1753.5	20385	5.50	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	5.52	13	1715.0	20000	5.86	13
1732.5	20175	5.67	13	1732.5	20175	5.88	13
1752.5	20375	5.78	13	1750.0	20350	5.99	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.67	13	1720.0	20050	7.08	13
1732.5	20175	6.61	13	1732.5	20175	6.91	13
1747.5	20325	6.63	13	1745.0	20300	6.98	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.78	13	825.5	20415	6.57	13
836.5	20525	6.87	13	836.5	20525	6.45	13
848.3	20643	6.70	13	847.5	20635	6.41	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.65	13	2505.0	20800	6.62	13
836.5	20525	6.61	13	2535.0	21100	6.45	13
846.5	20625	6.61	13	2565.0	21400	6.56	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	20775	5.64	13	2505.0	20800	5.88	13
2535.0	21100	5.69	13	2535.0	21100	5.82	13
2567.5	21425	5.65	13	2565.0	21400	5.88	13

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LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20425	6.53	13	2510.0	20850	6.99	13
2535.0	20525	6.54	13	2535.0	21100	7.01	13
2562.5	20625	6.47	13	2560.0	21350	6.97	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
699.7	23017	6.00	13	700.5	23025	5.58	13
707.5	23095	6.09	13	707.5	23095	6.10	13
715.3	23173	5.65	13	714.5	23165	5.47	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
701.5	23035	5.79	13	704.0	23060	6.06	13
707.5	23095	6.19	13	707.5	23095	6.17	13
713.5	23155	5.74	13	711.0	23130	5.88	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	5.83	13	782.0	23230	5.81	13
782.0	23230	5.77	13				
784.5	23255	5.88	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2307.5	27685	5.47	13	2310.0	27710	5.64	13
2310.0	27710	5.41	13				
2312.5	27735	5.38	13				

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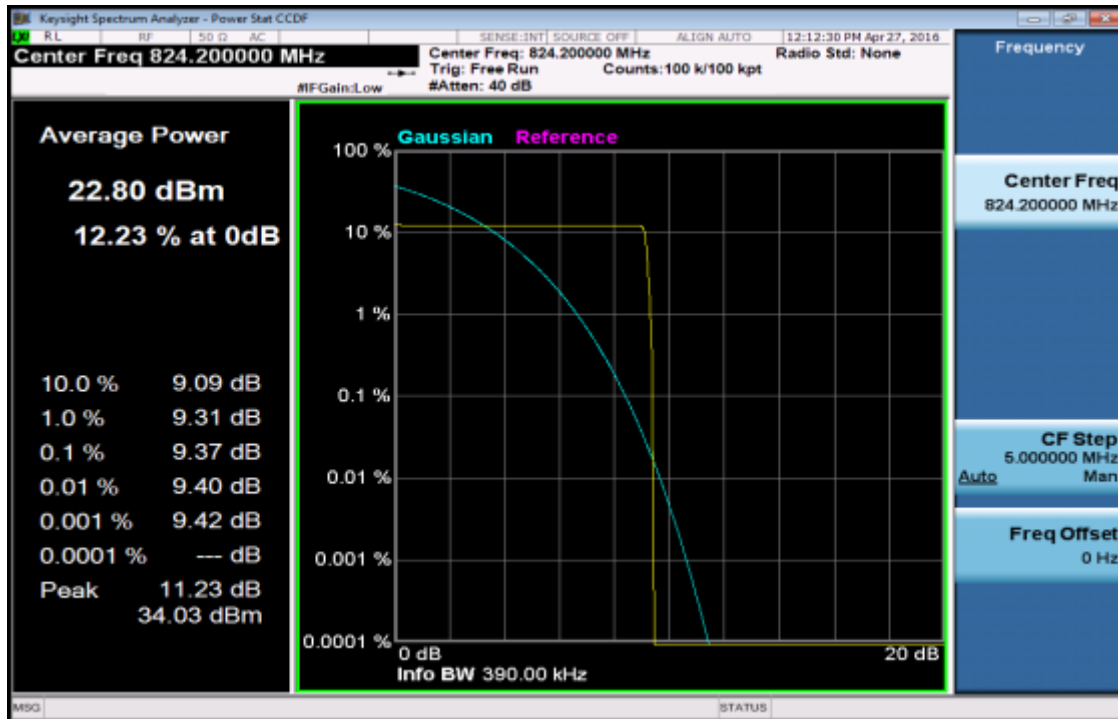
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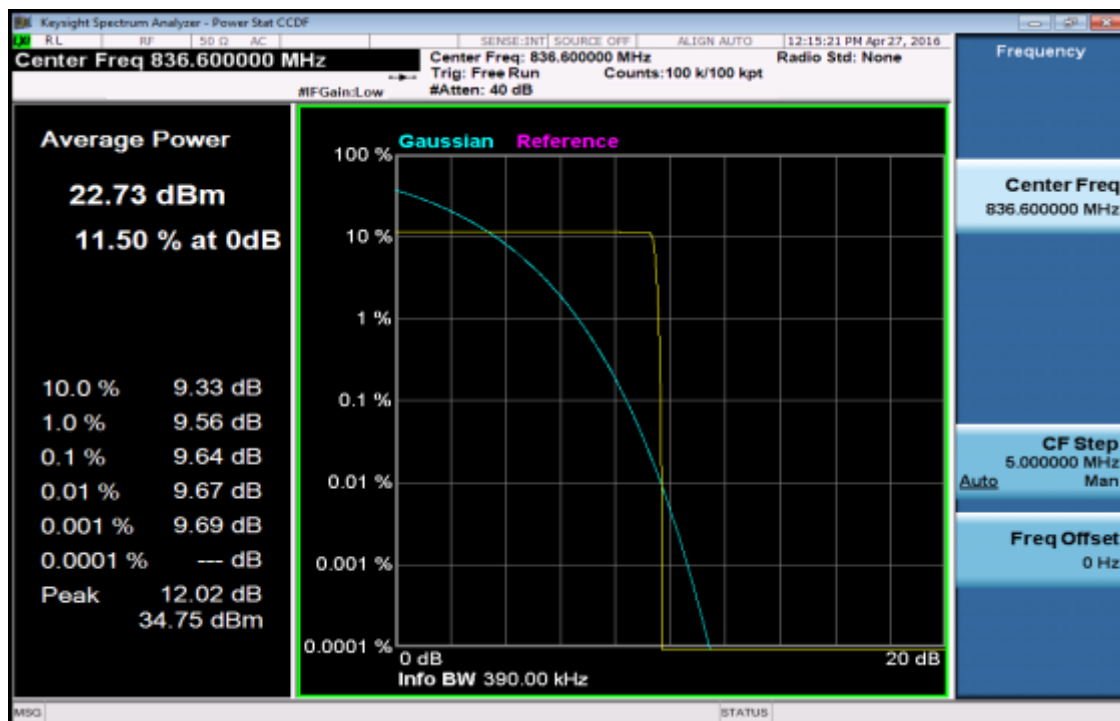
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Measurement Results:

GSM 850 Channel Low



GSM 850 Channel Mid



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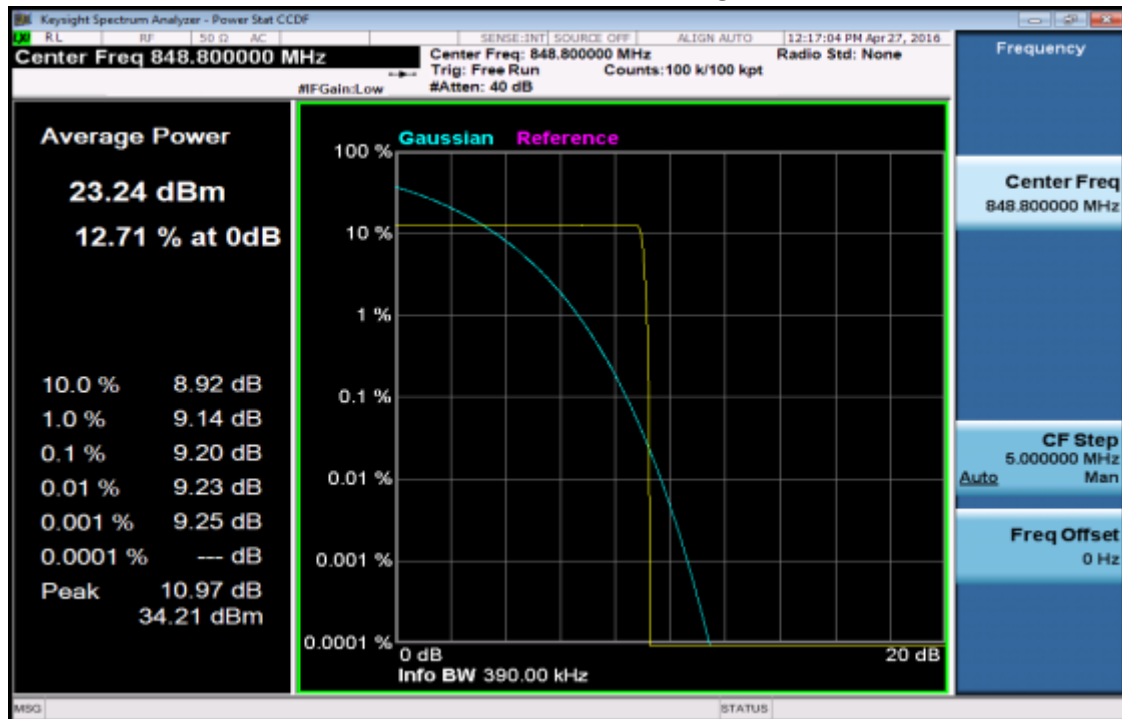
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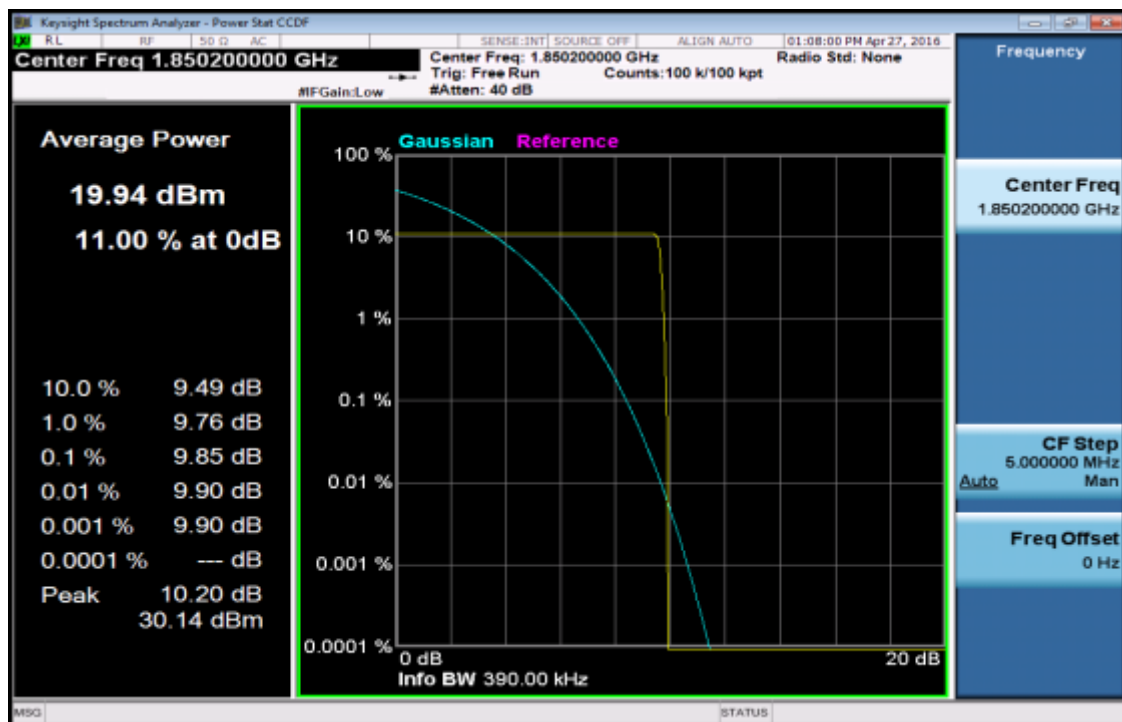
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GSM 850 Channel High



GSM 1900 Channel Low



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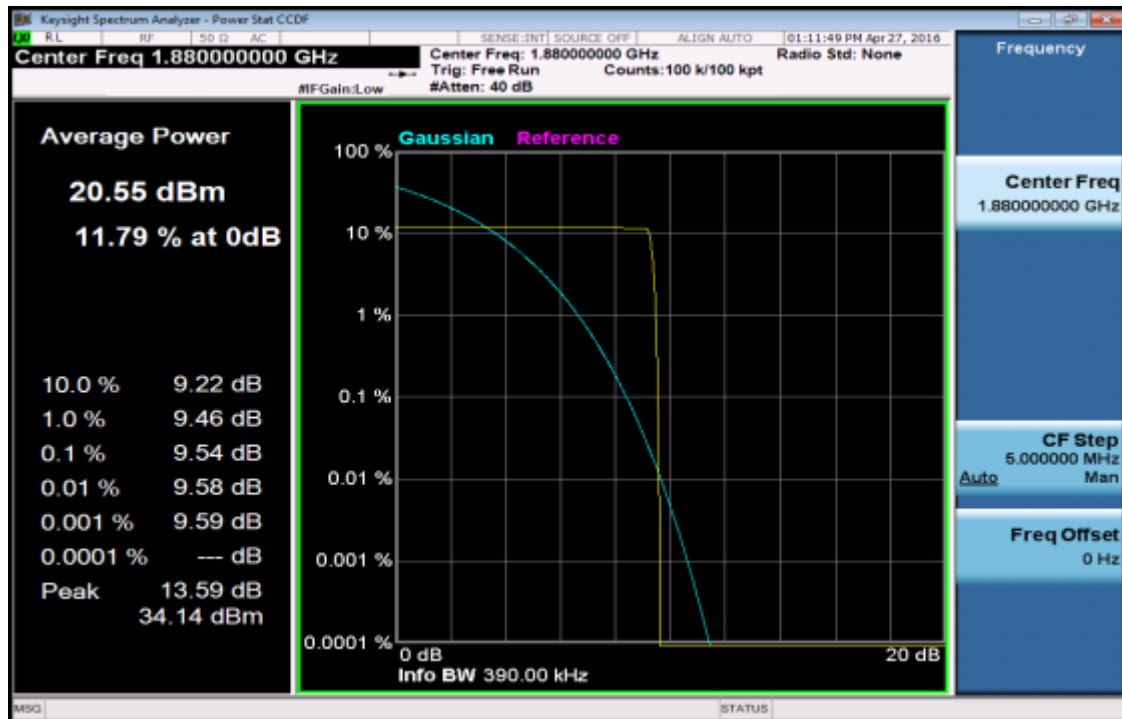
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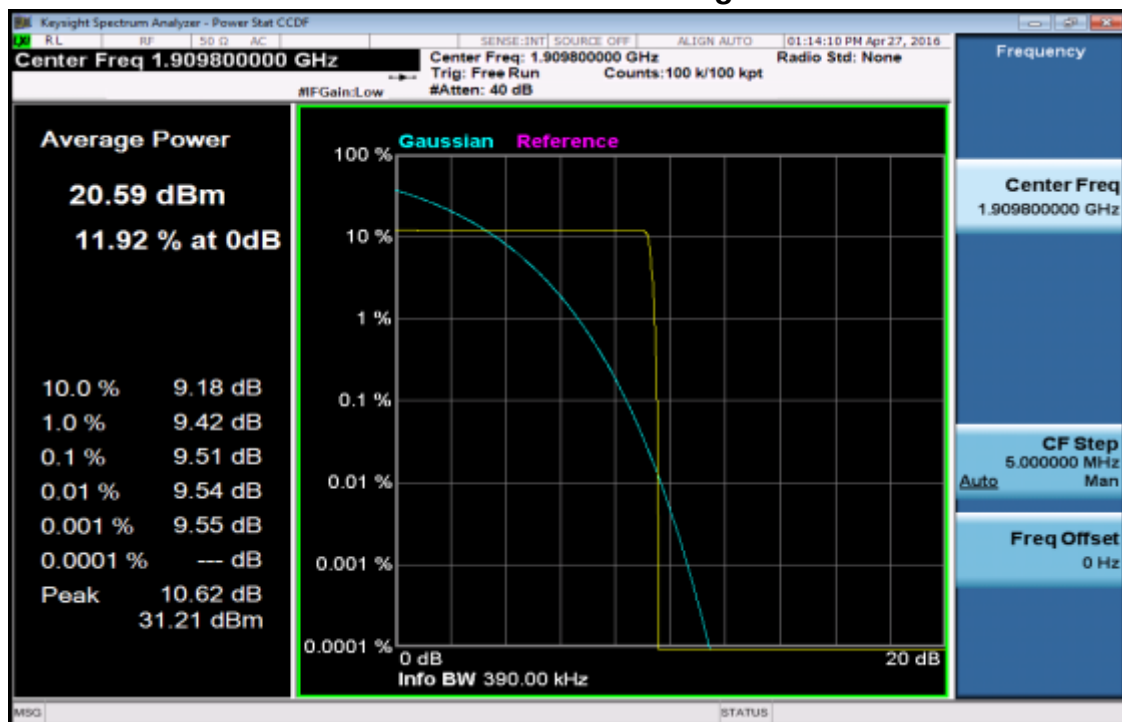
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GSM 1900 Channel Mid



GSM 1900 Channel High



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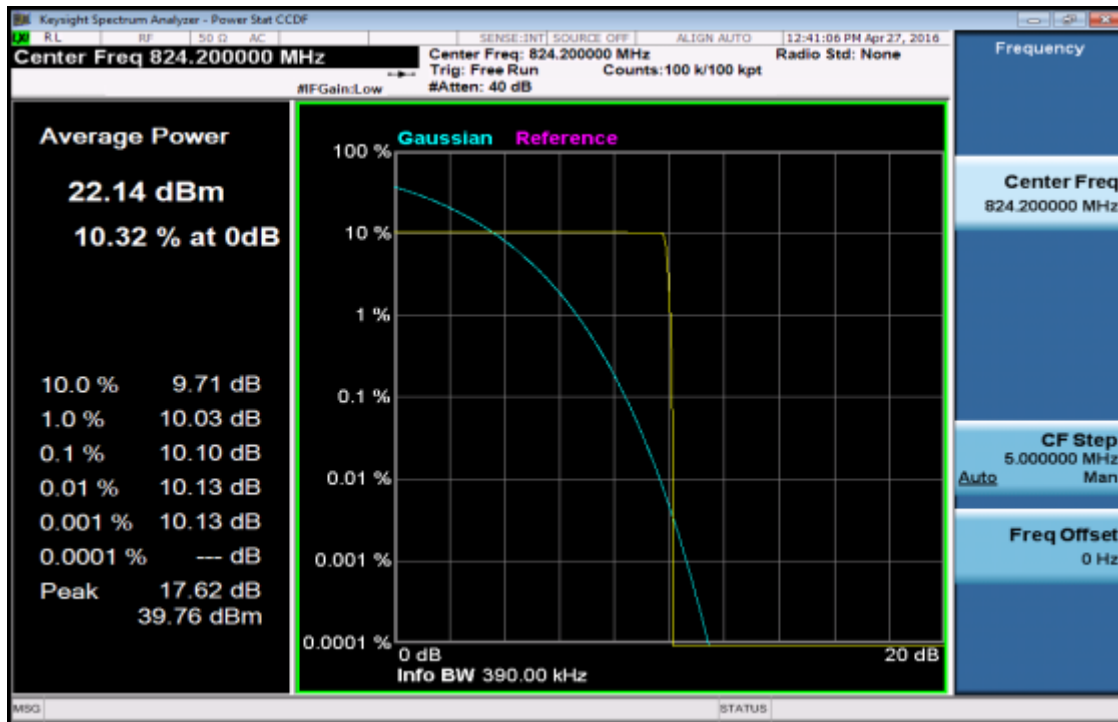
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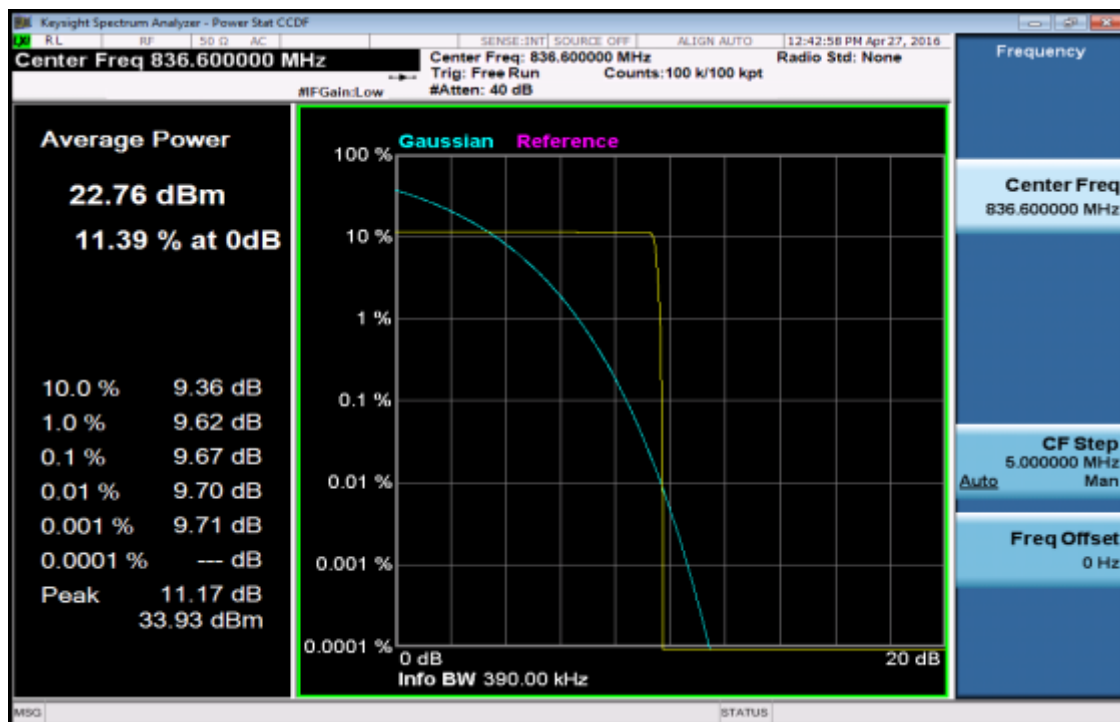
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Member of SGS Group

GPRS 850 Channel Low



GPRS 850 Channel Mid



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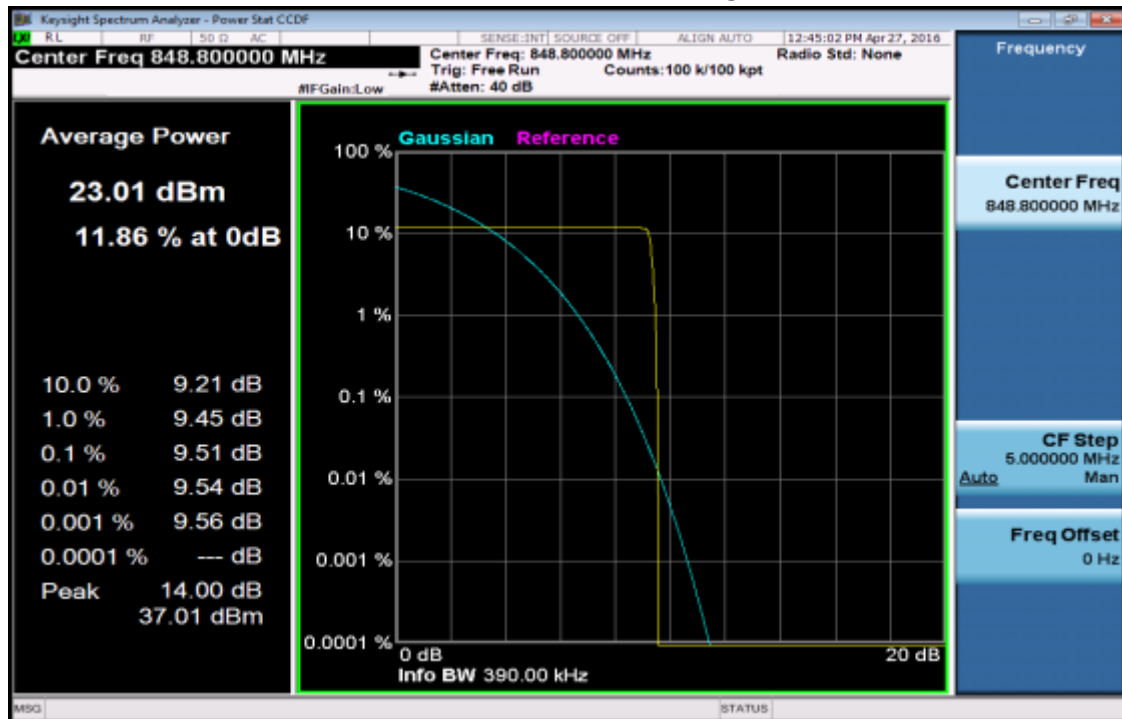
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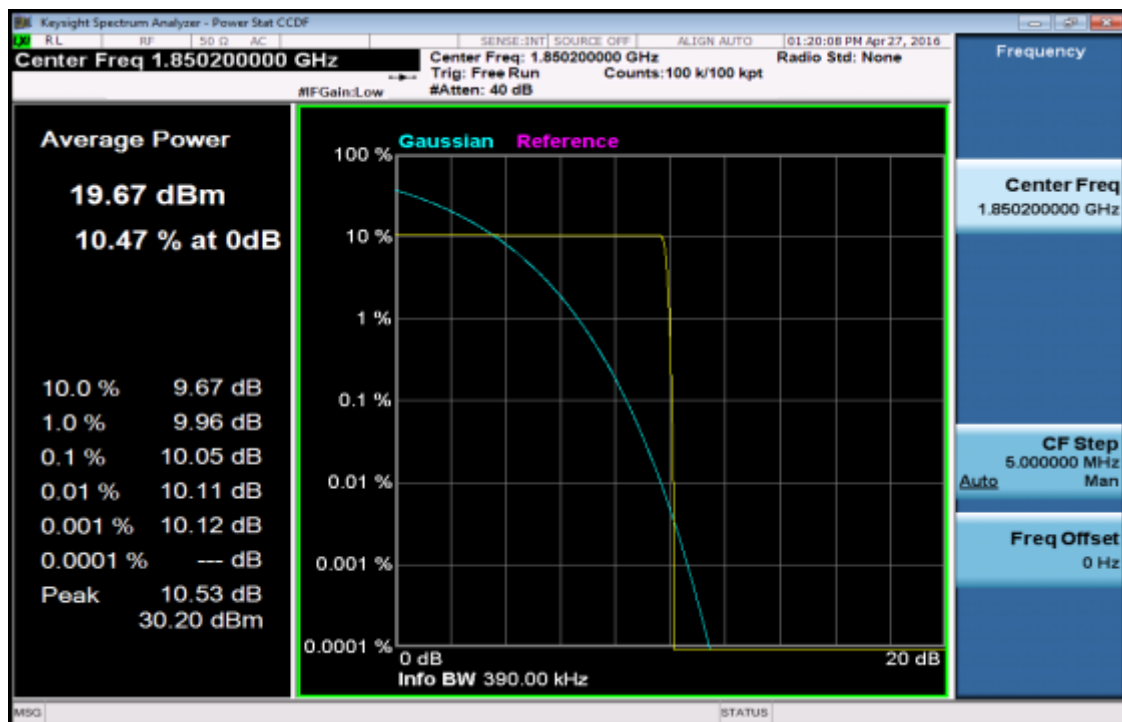
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GPRS 850 Channel High



GPRS 1900 Channel Low



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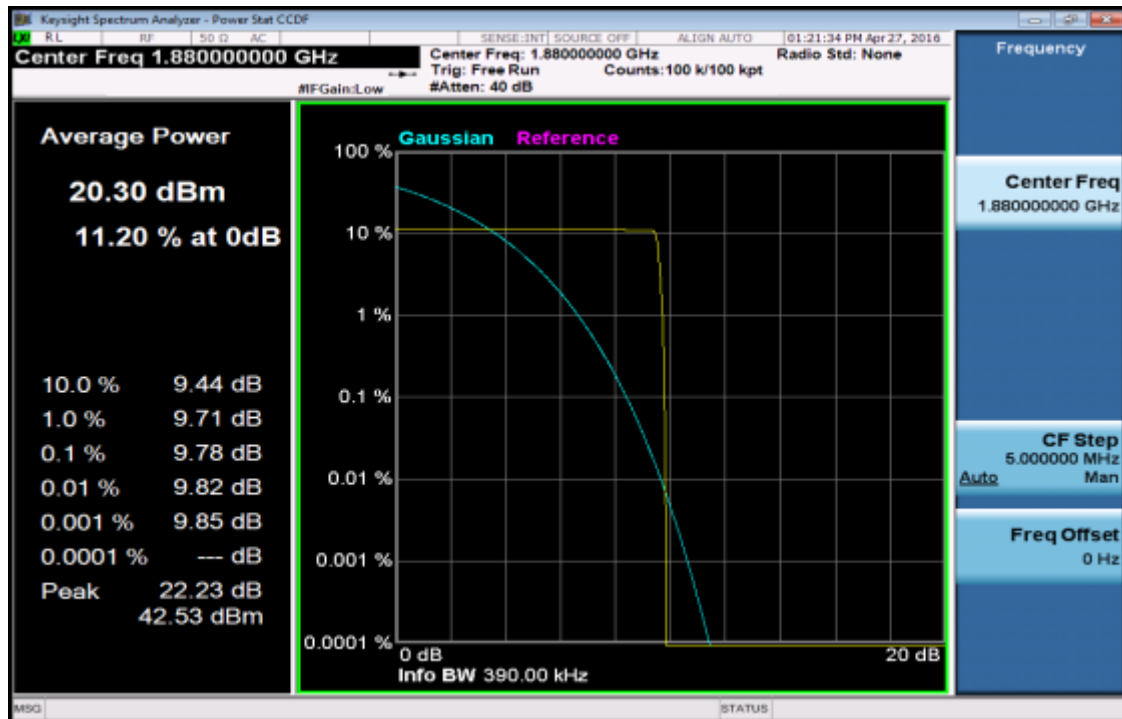
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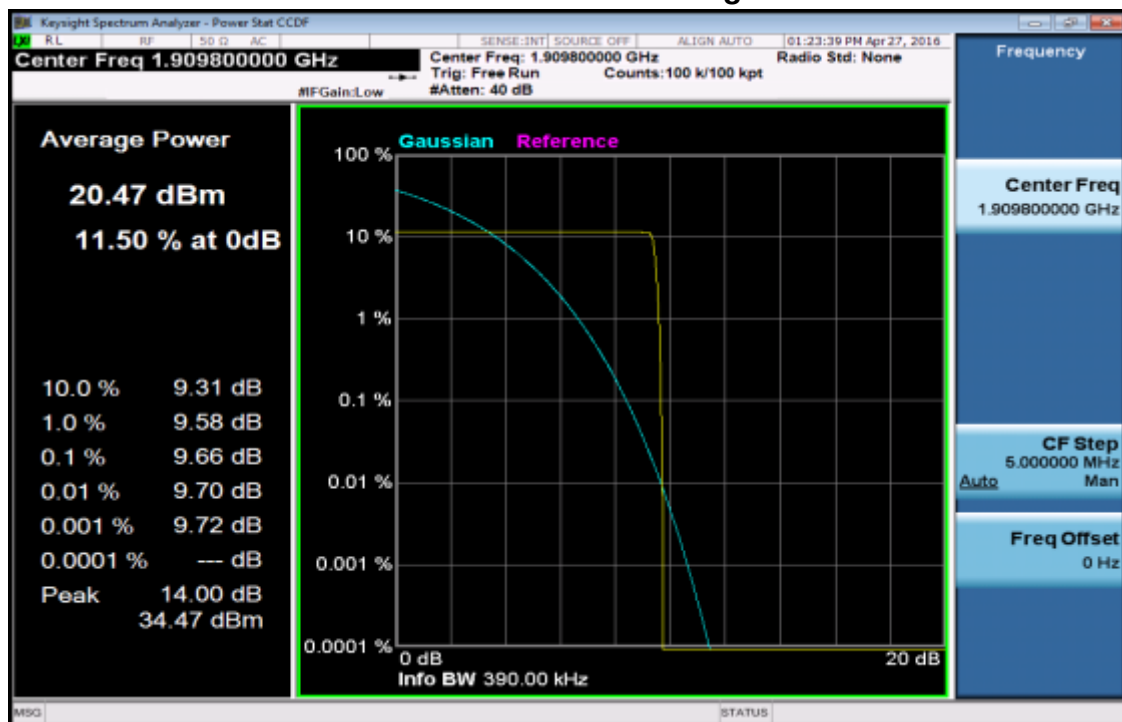
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Member of SGS Group

GPRS 1900 Channel Mid



GPRS 1900 Channel High



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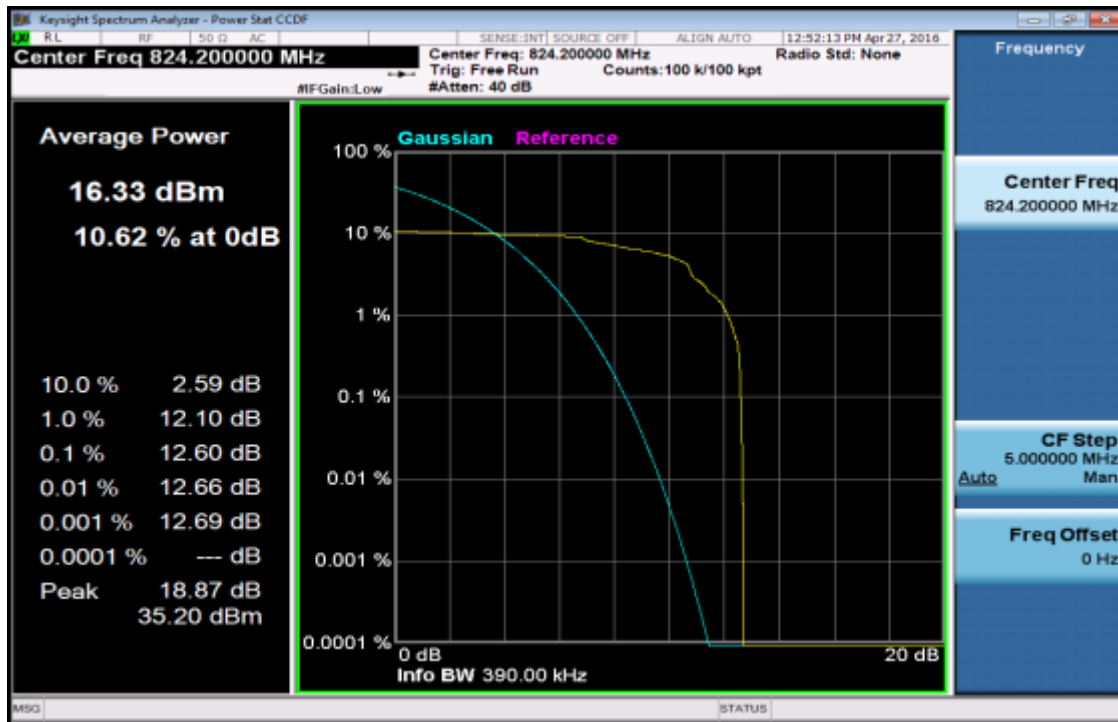
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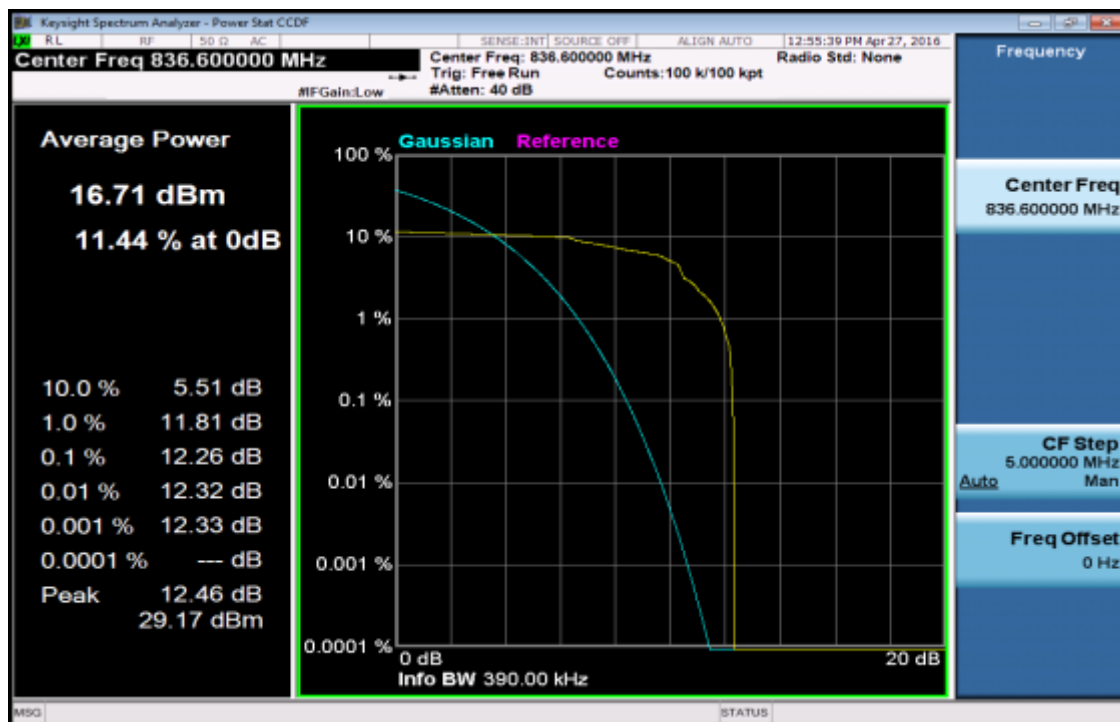
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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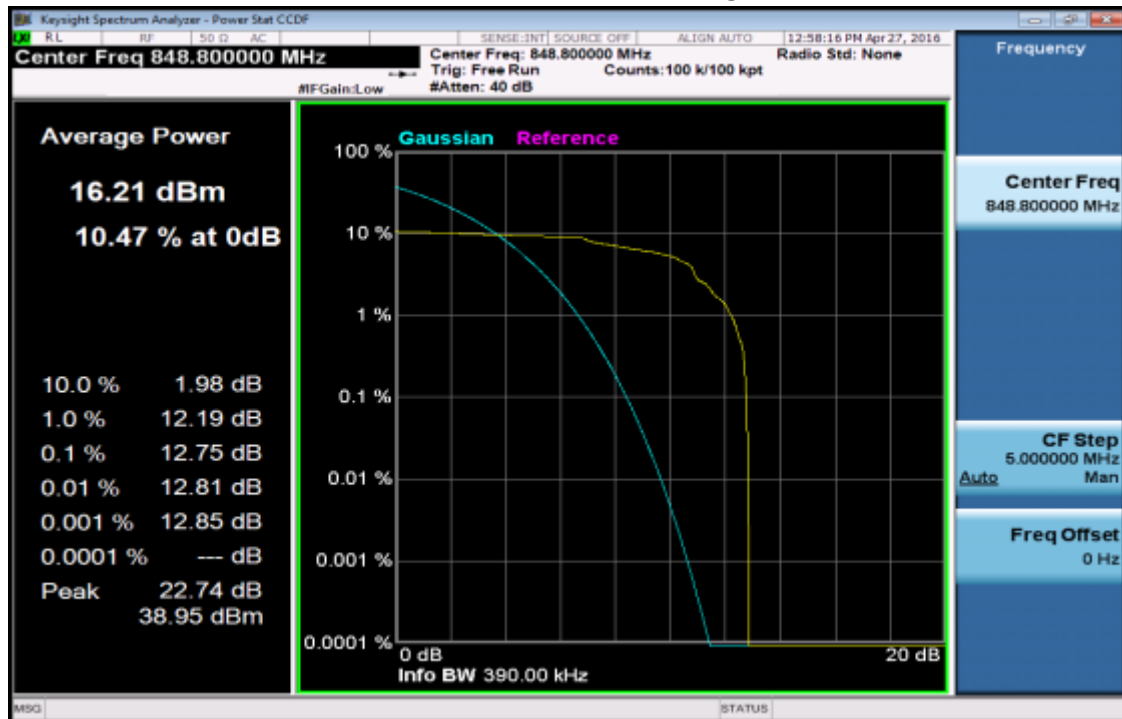
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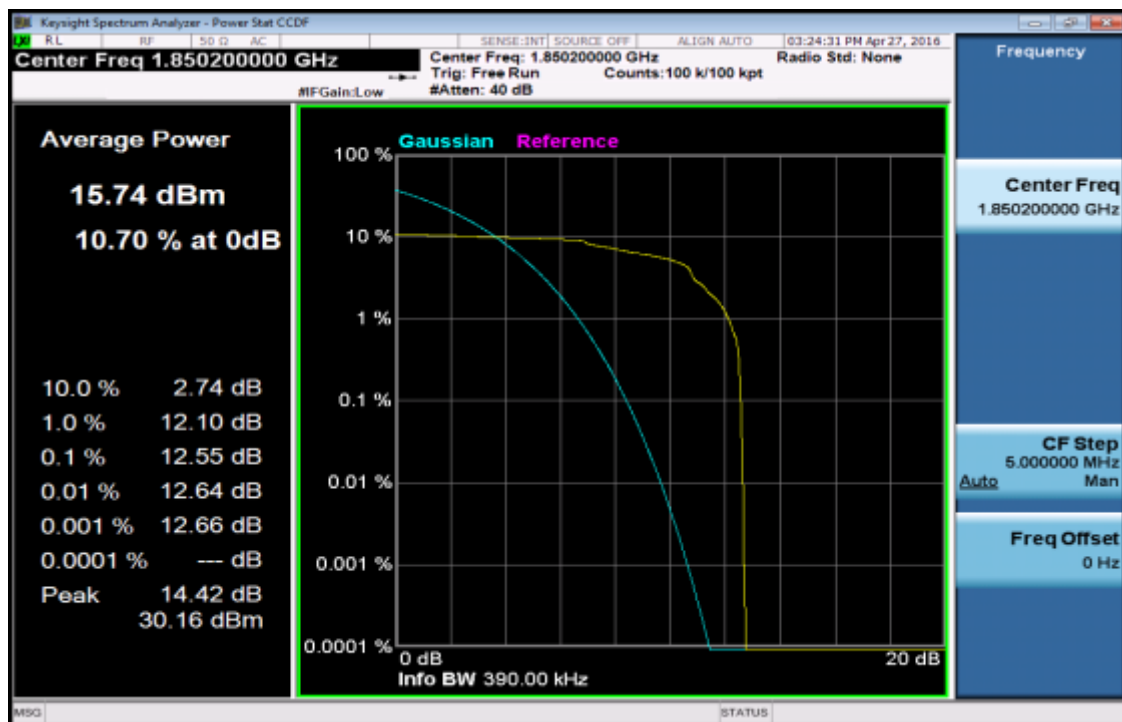
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EDGE 850 Channel High



EDGE 1900 Channel Low



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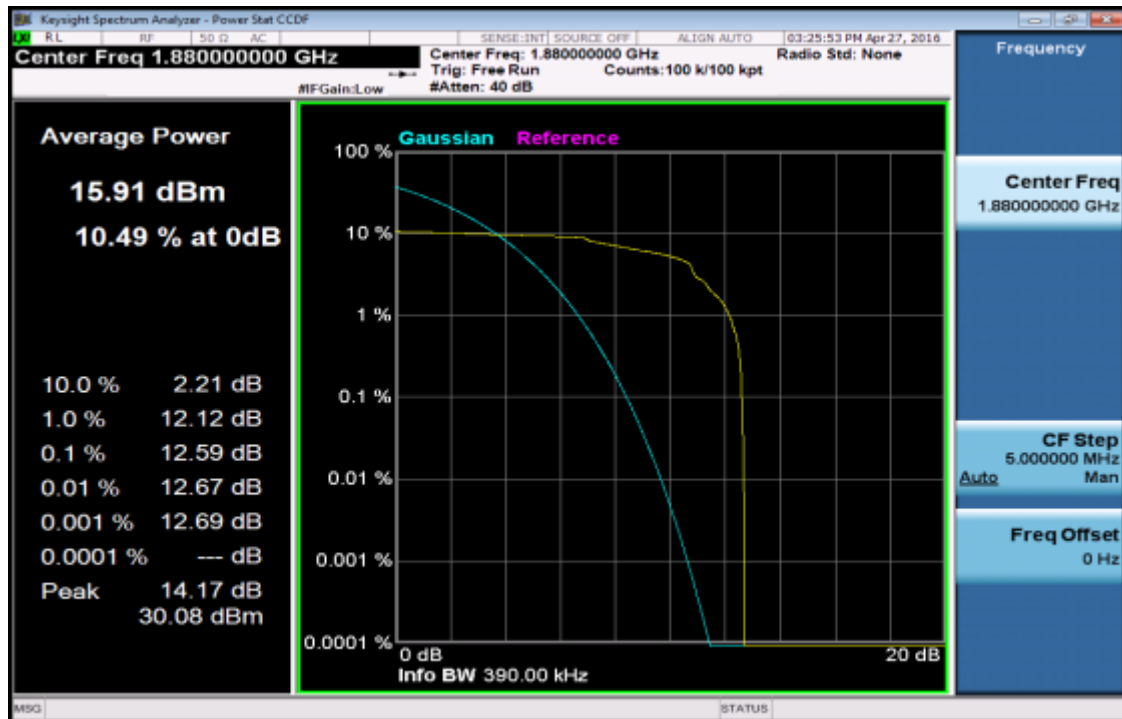
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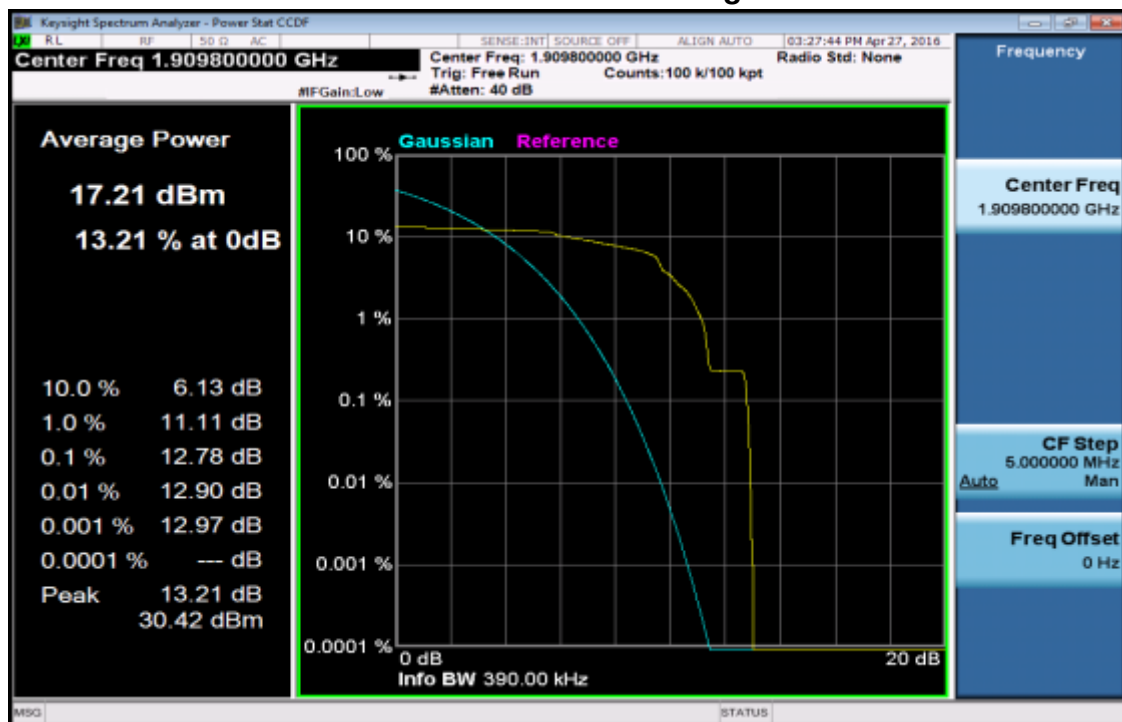
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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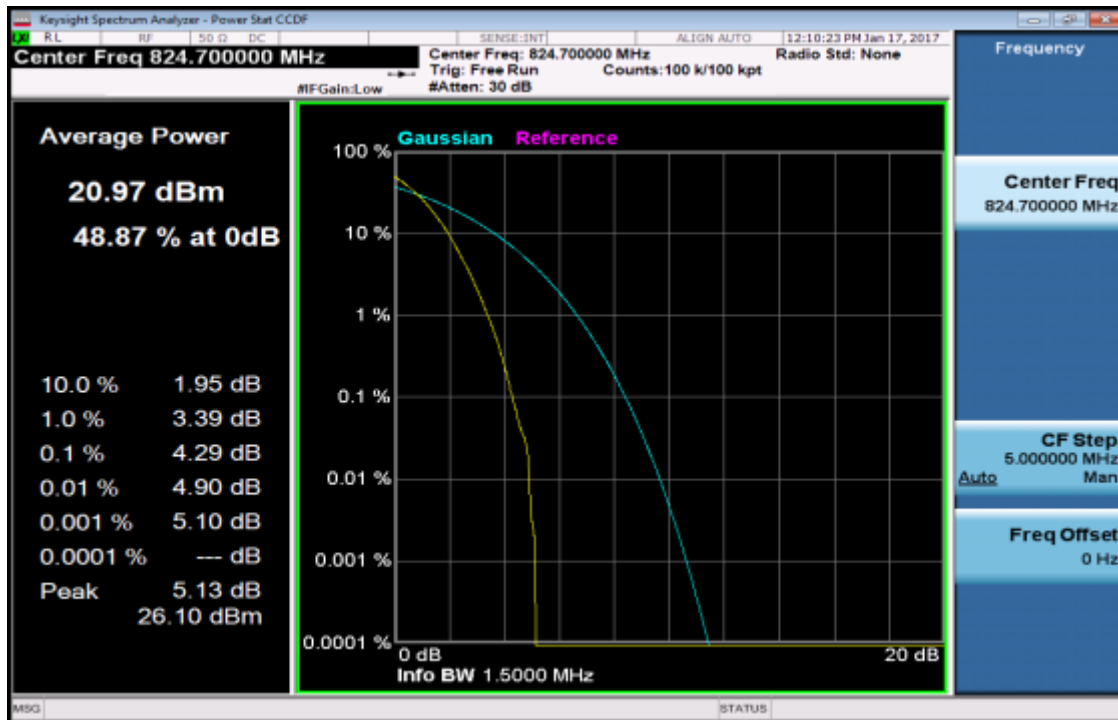
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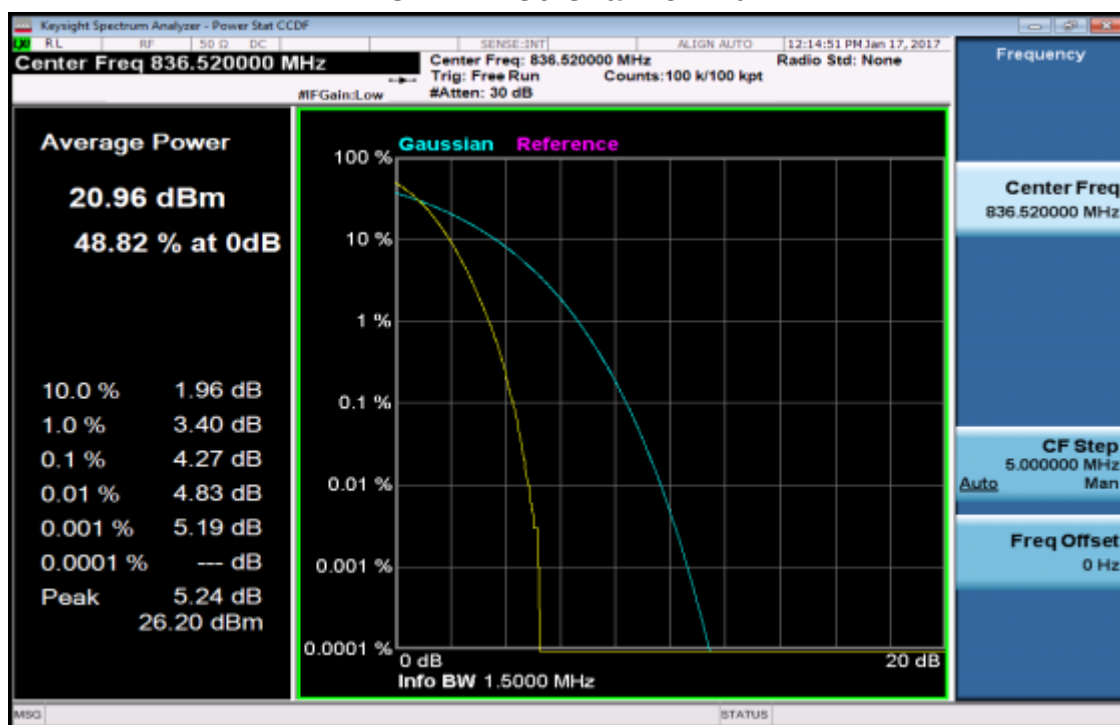
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CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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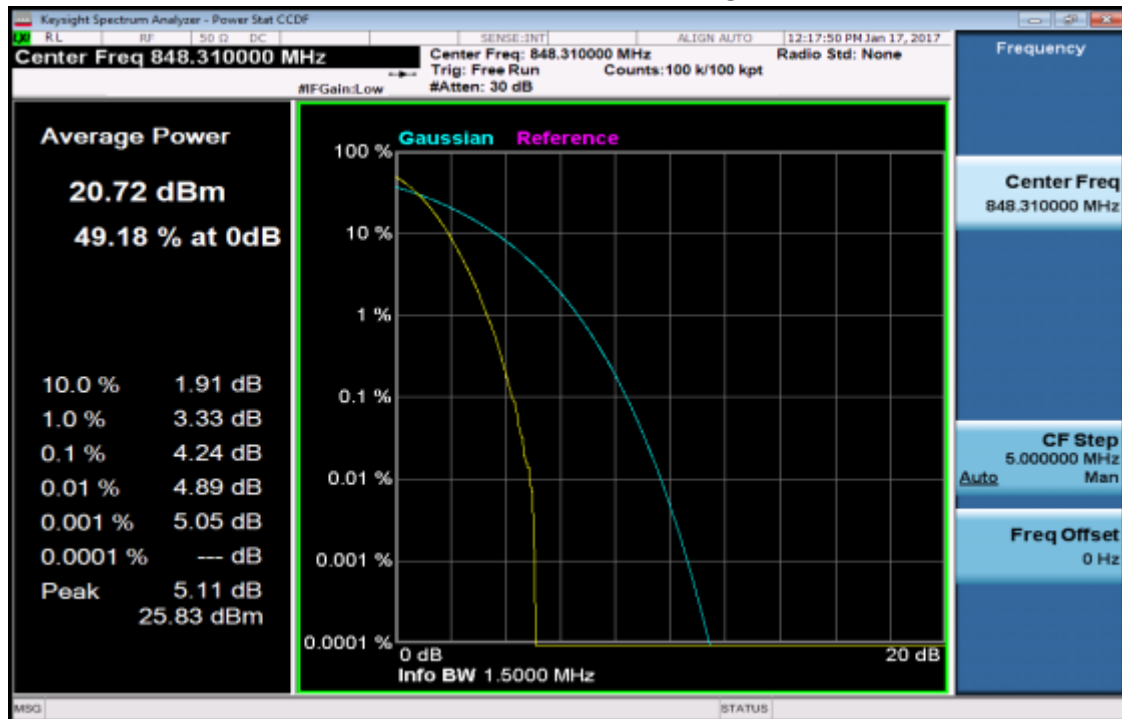
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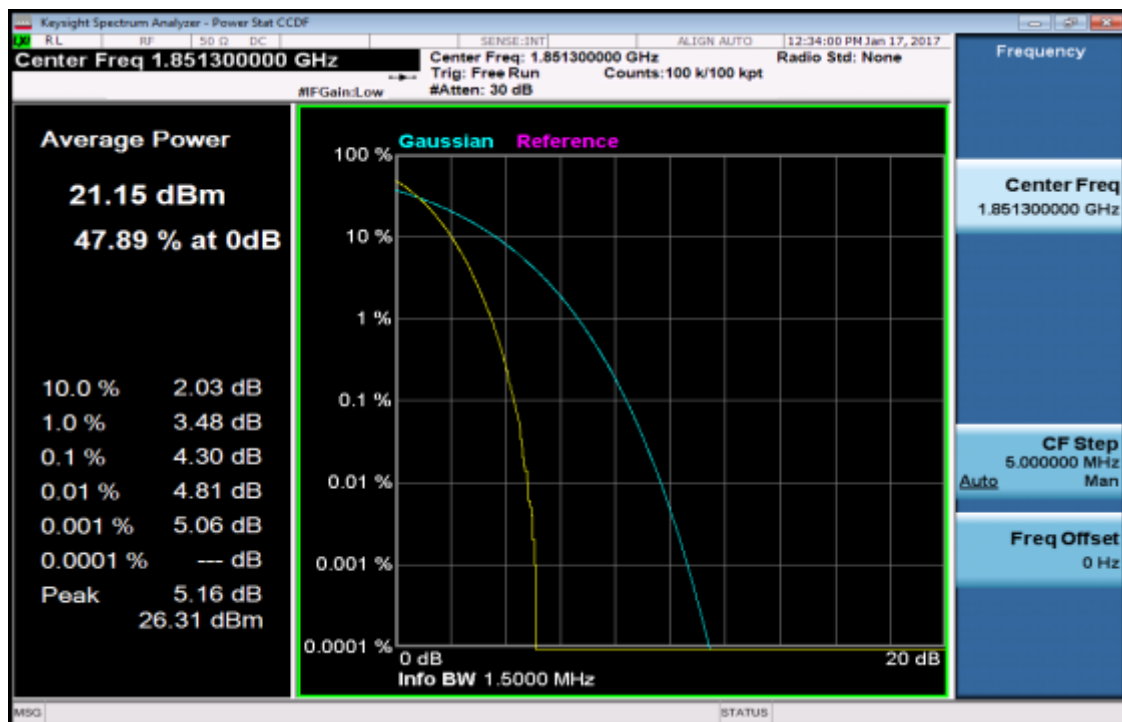
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CDMA BC0 Channel High



CDMA BC1 Channel Low



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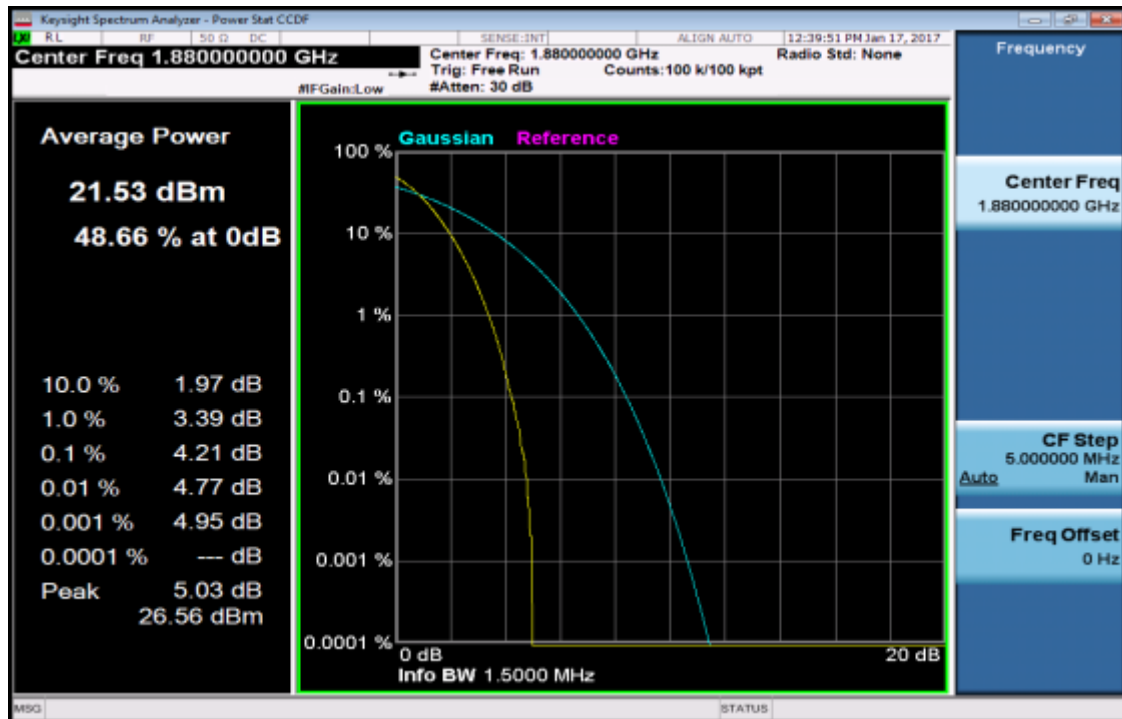
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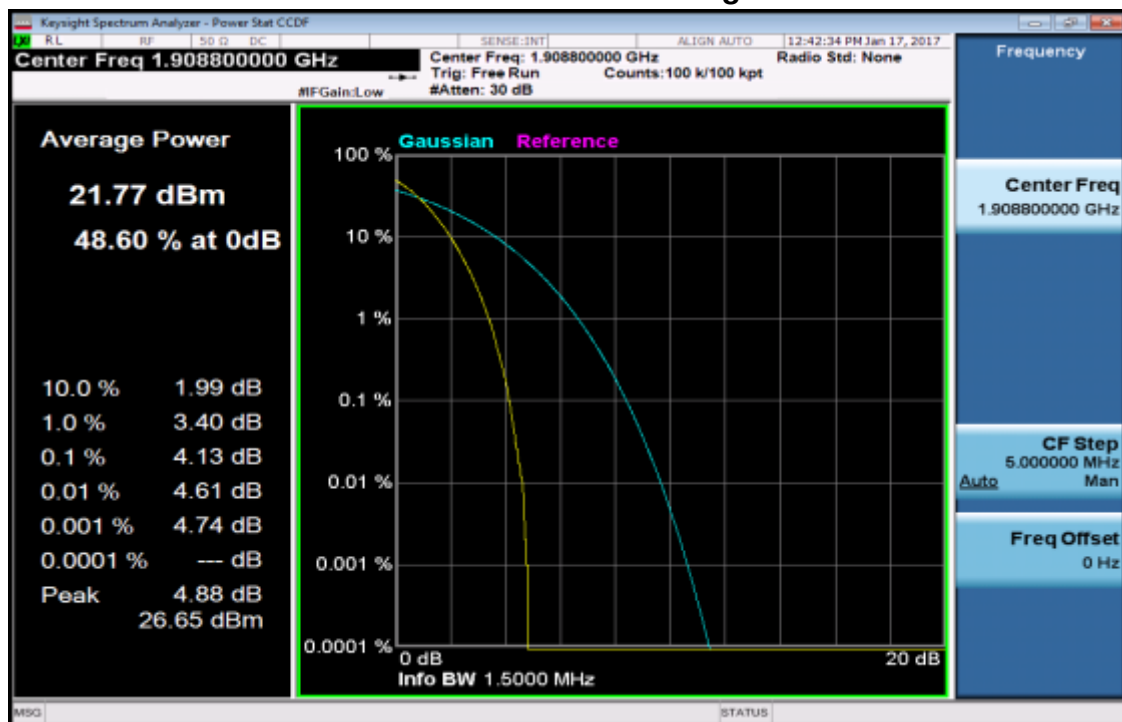
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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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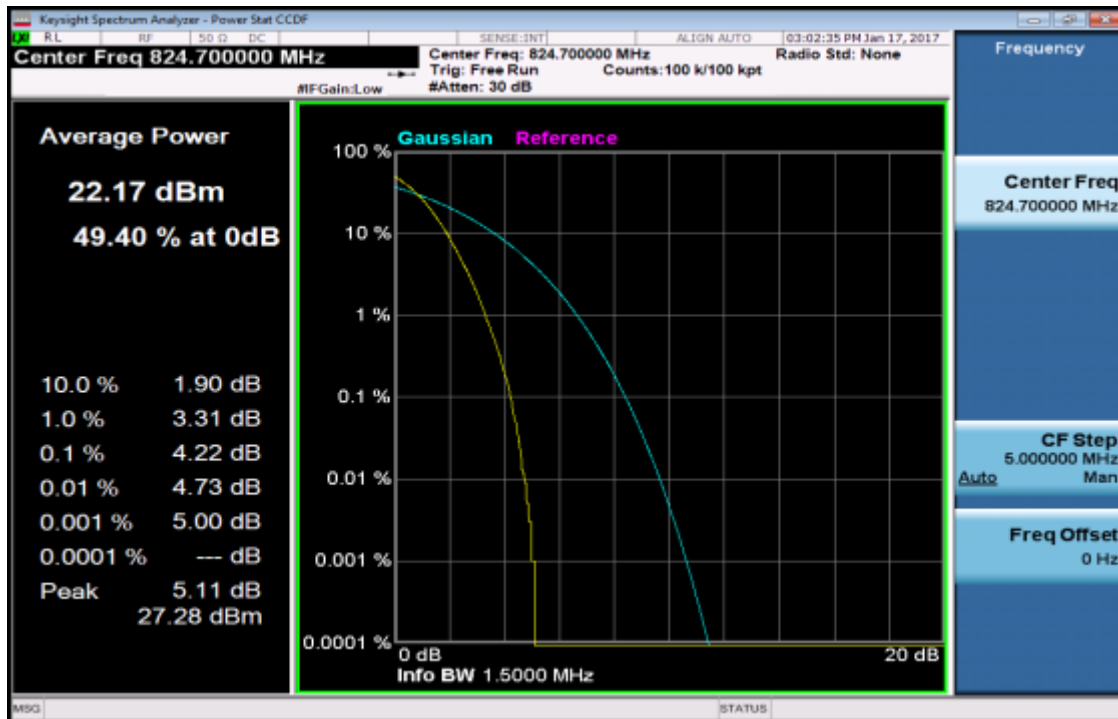
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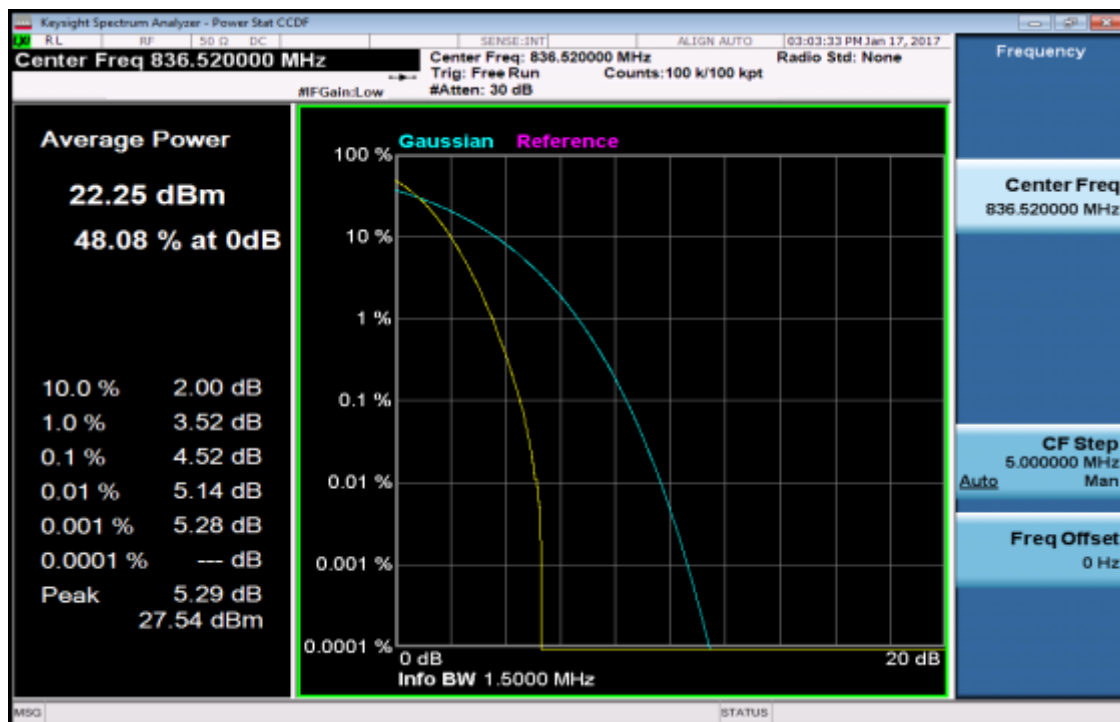
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EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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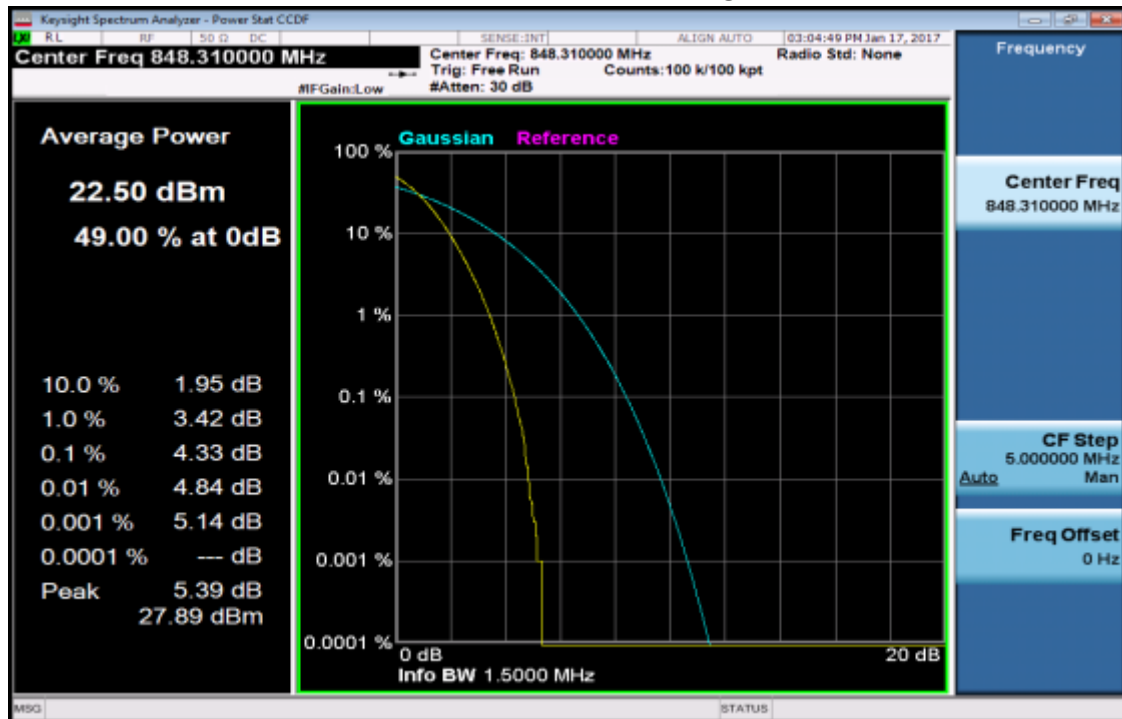
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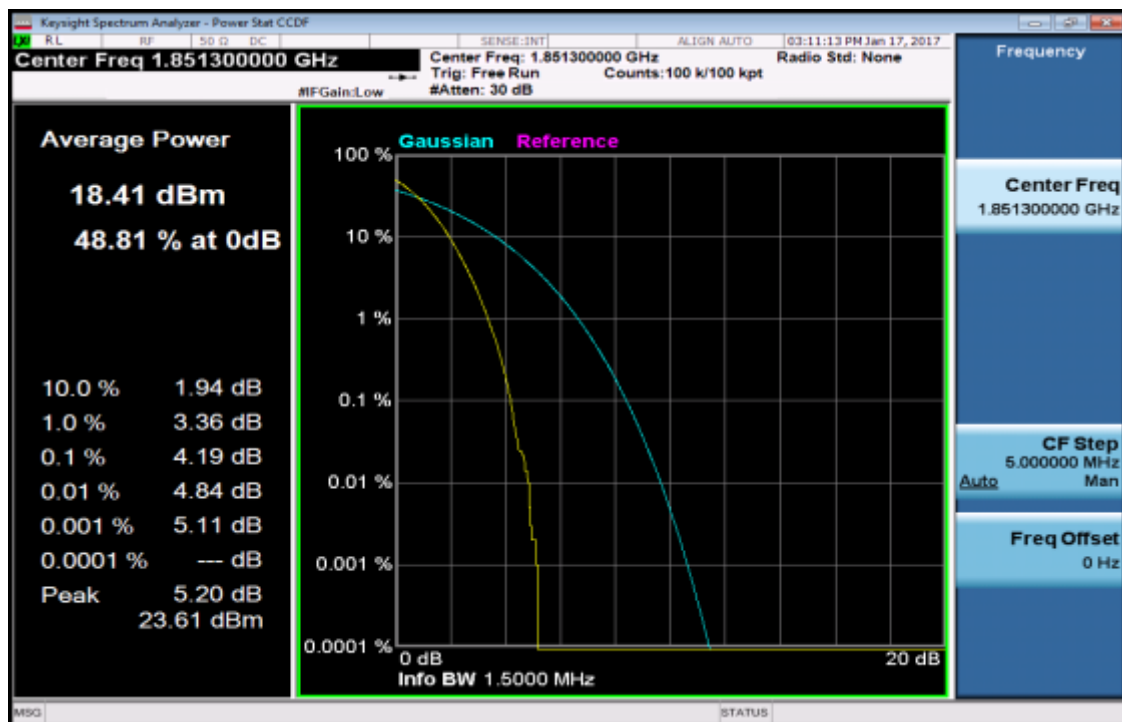
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EVDO BC0 Channel High



EVDO BC1 Channel Low



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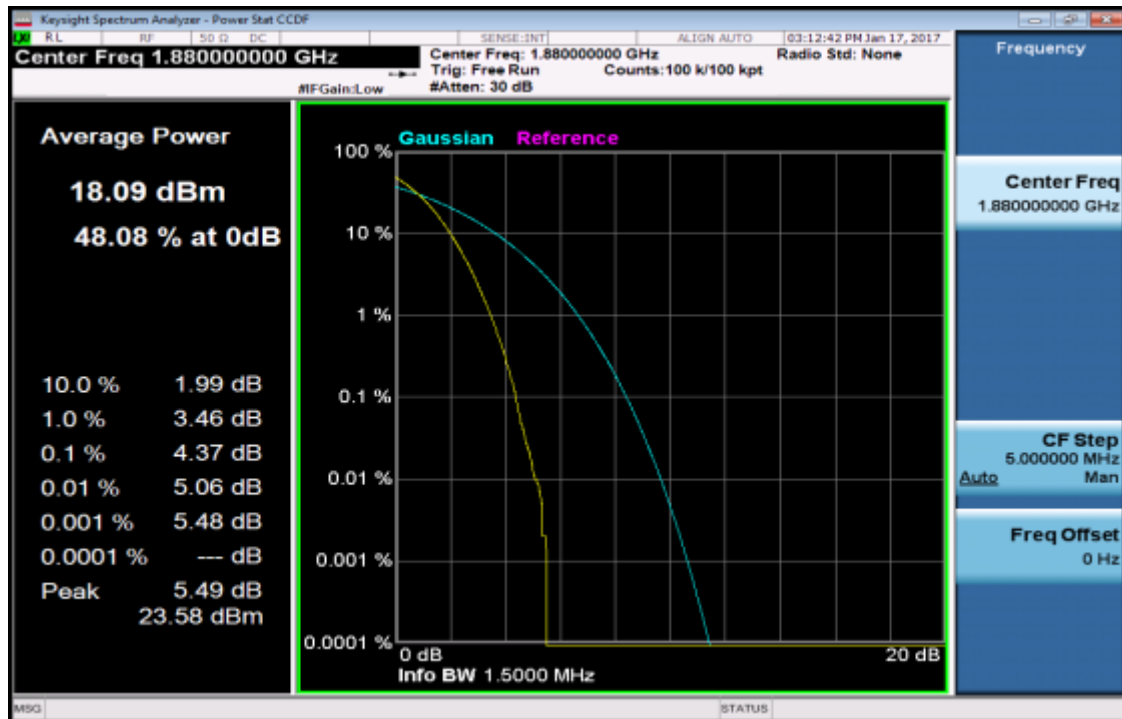
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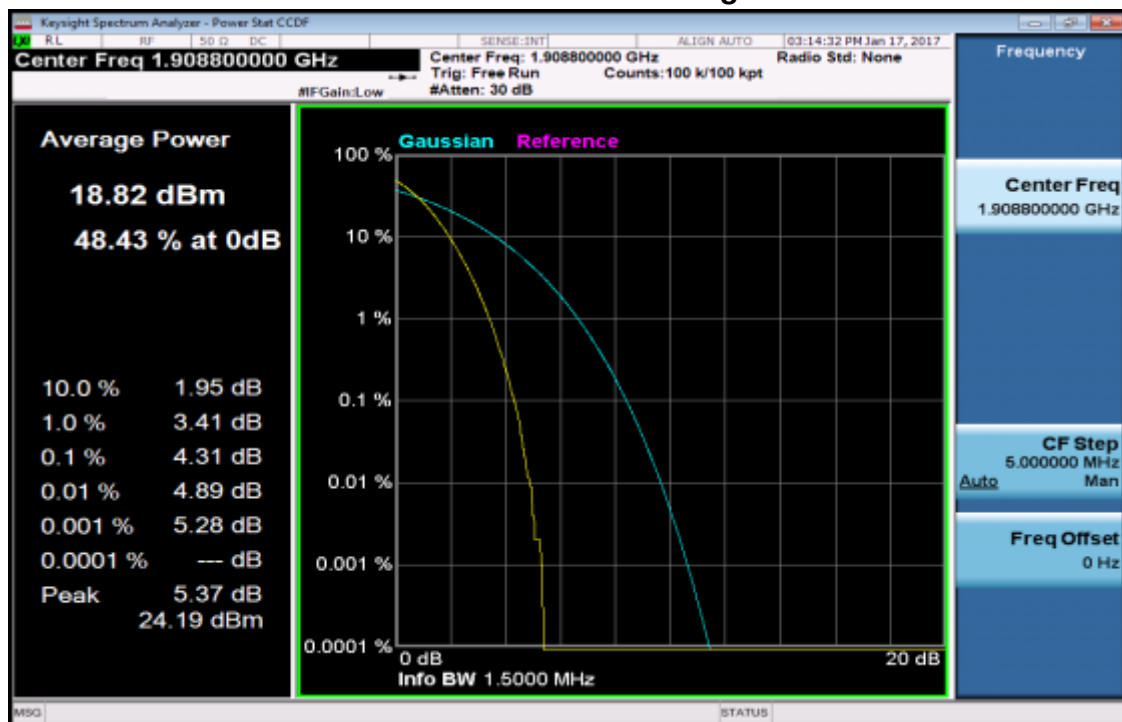
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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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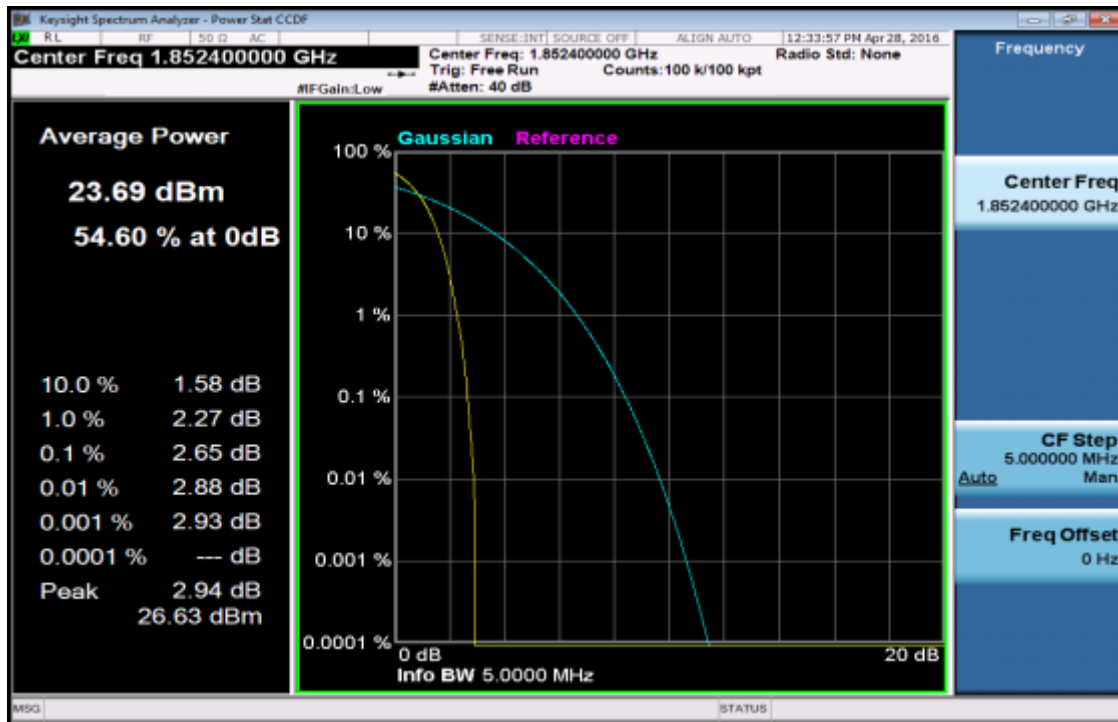
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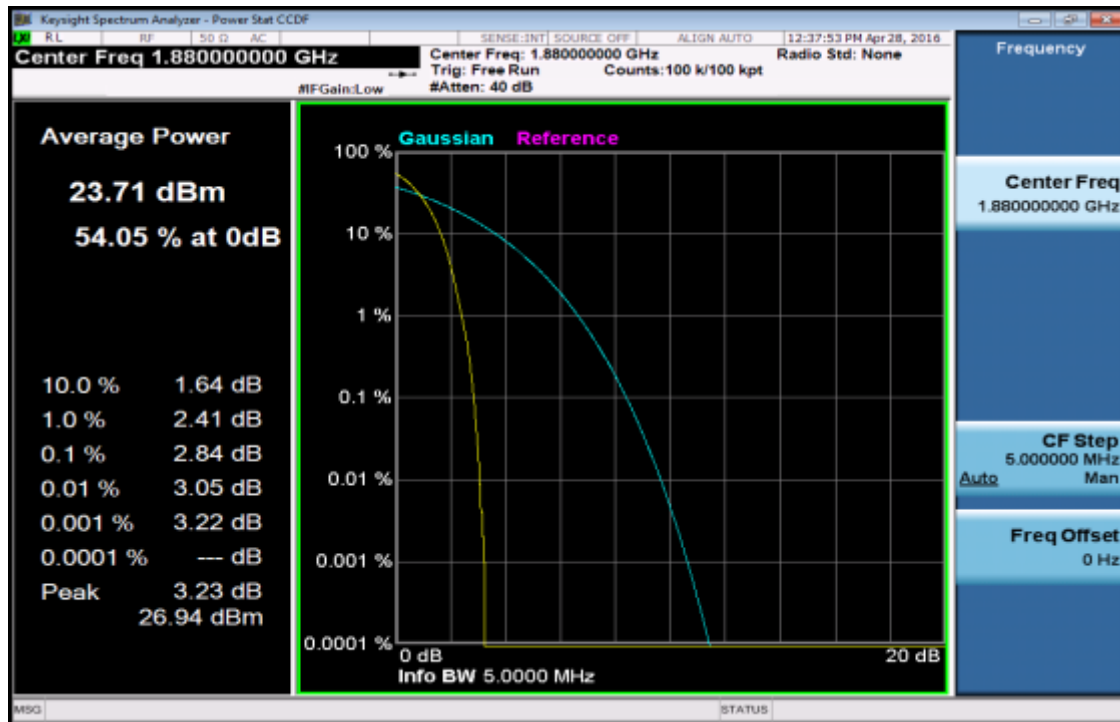
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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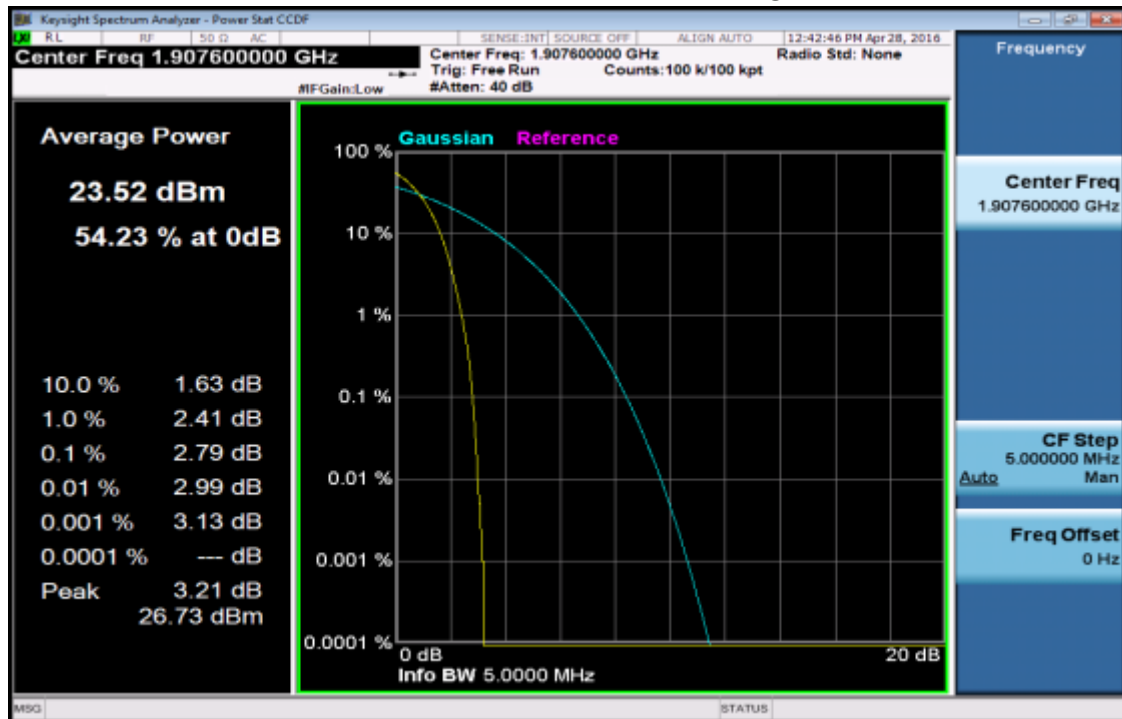
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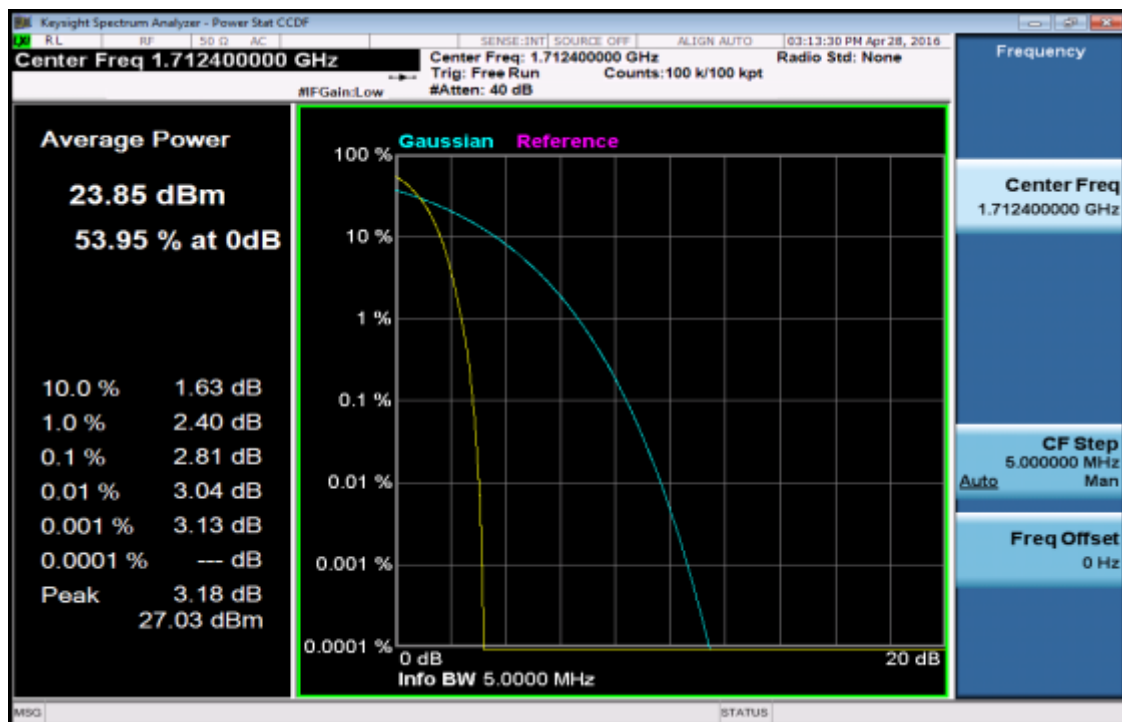
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WCDMA Band II Channel High



WCDMA Band IV Channel Low



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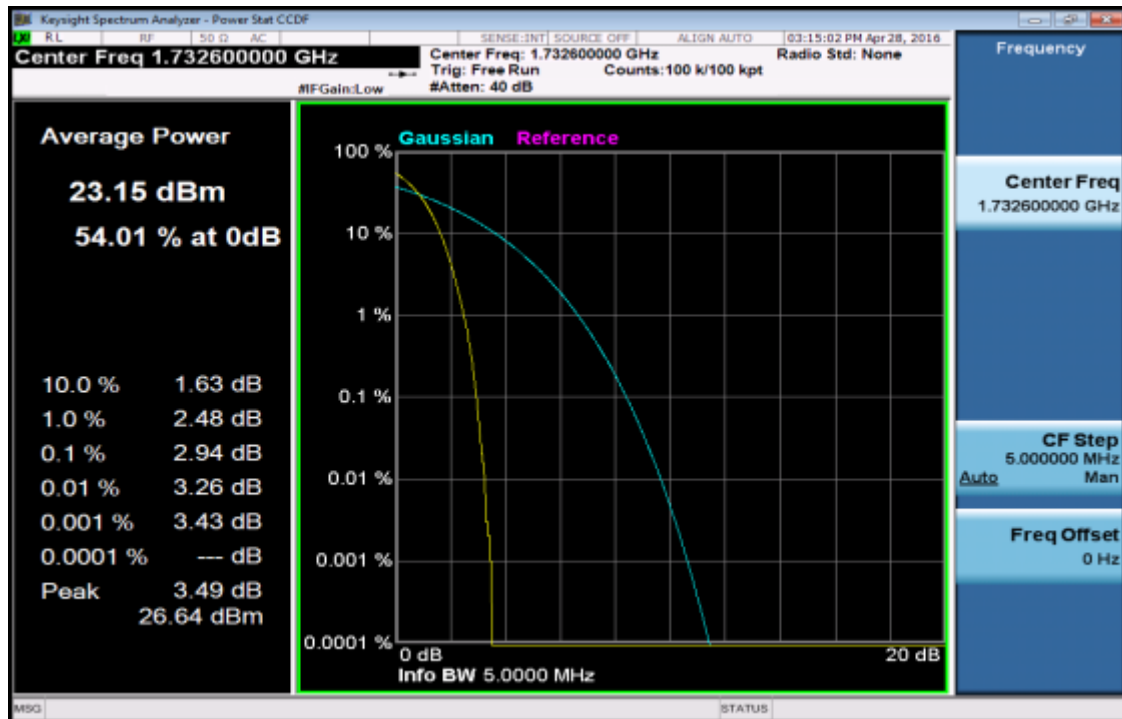
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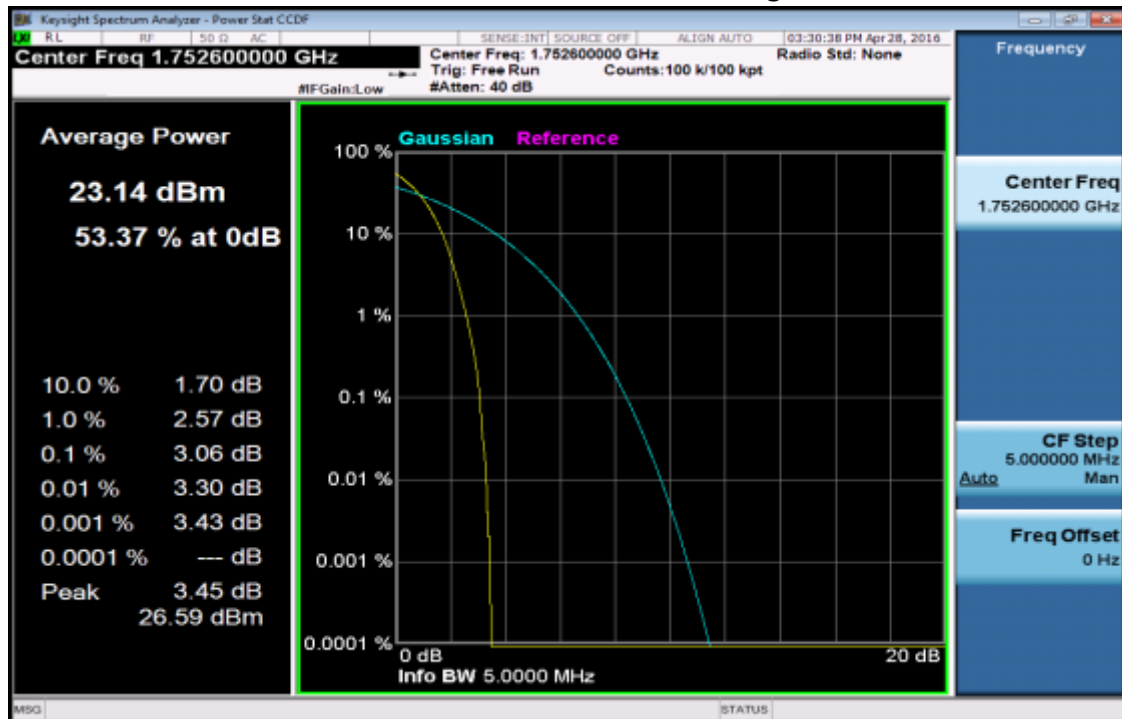
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Member of SGS Group

WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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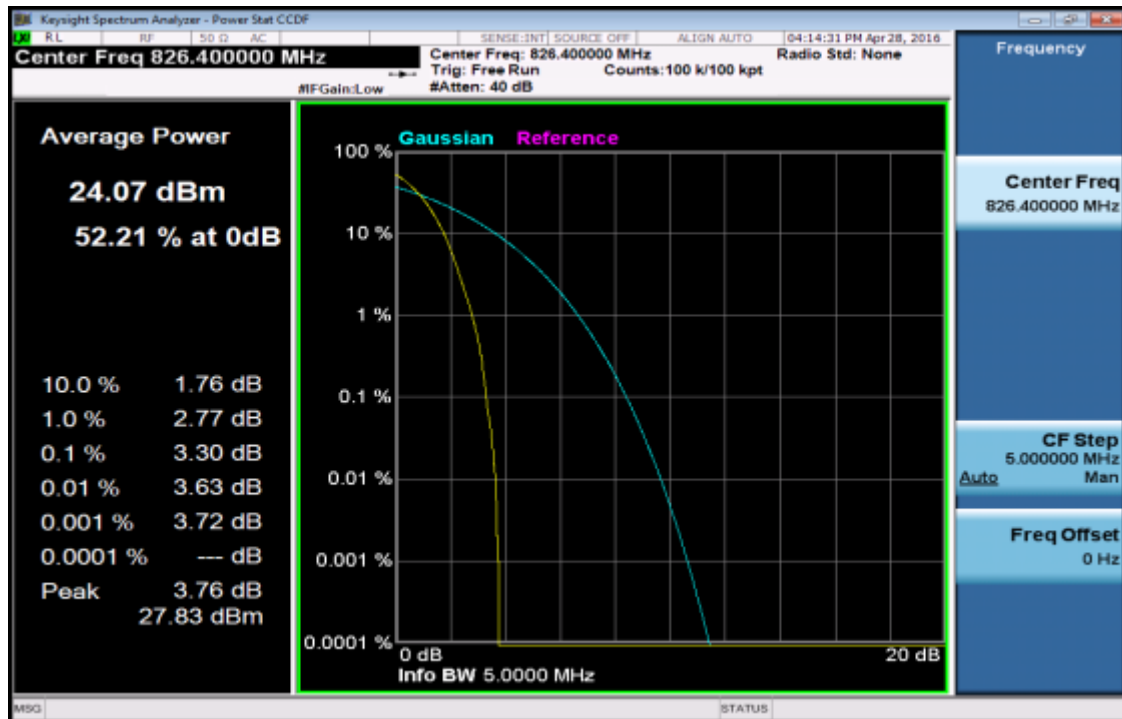
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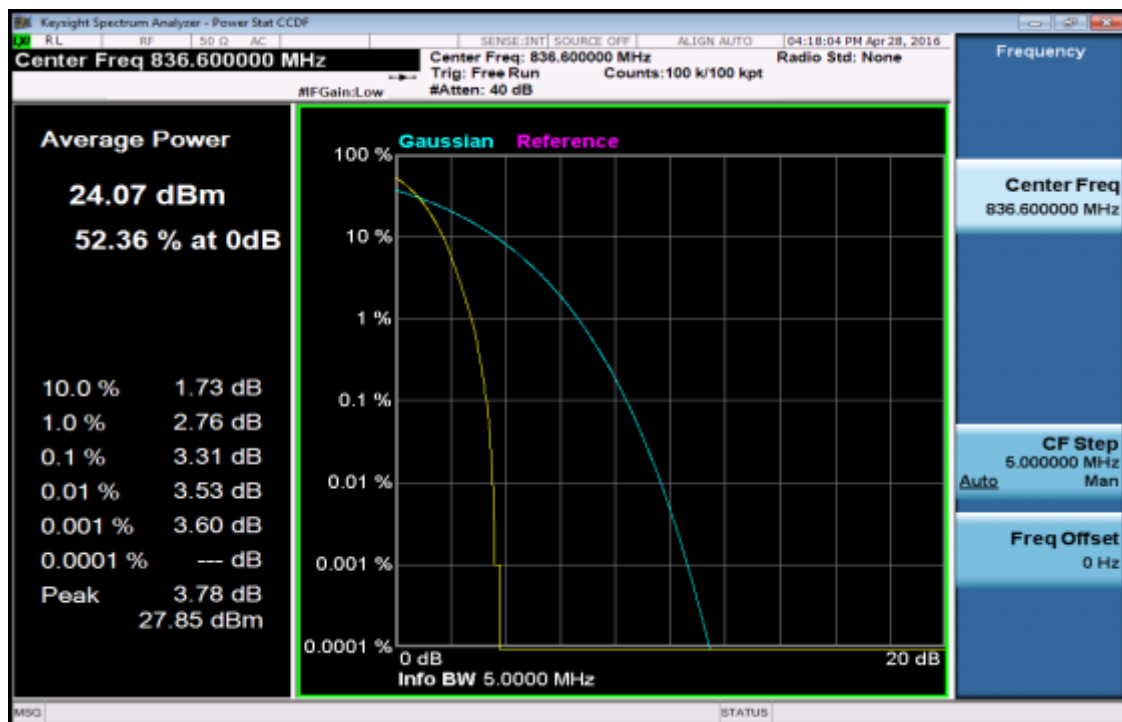
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WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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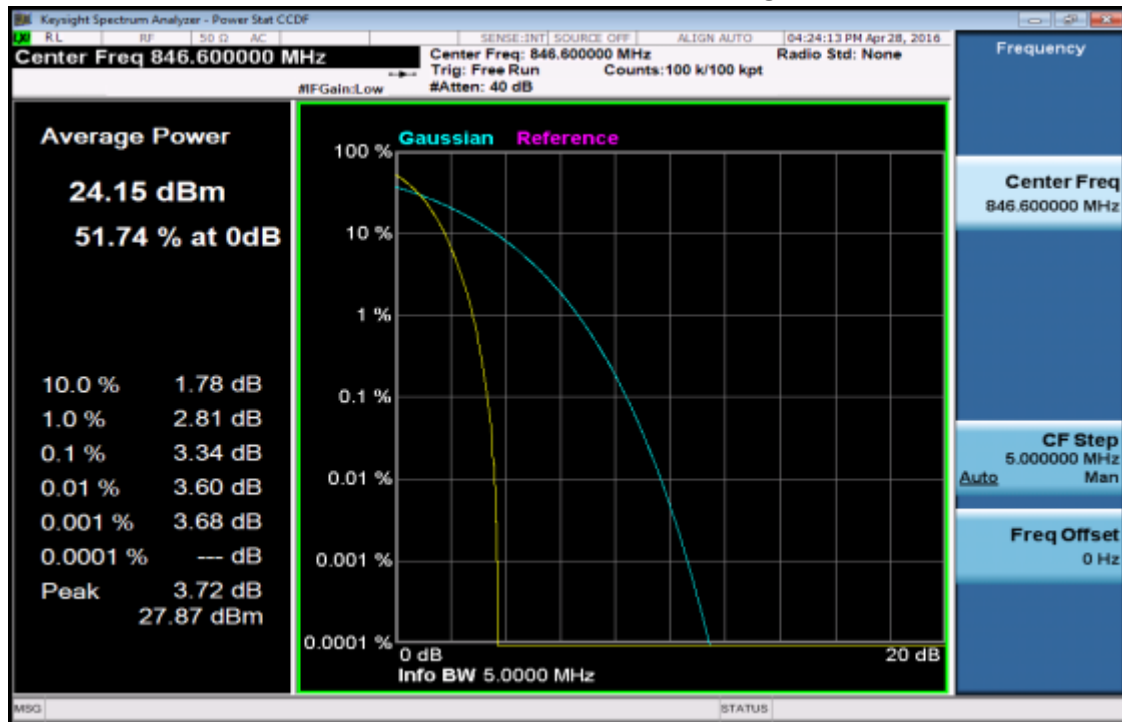
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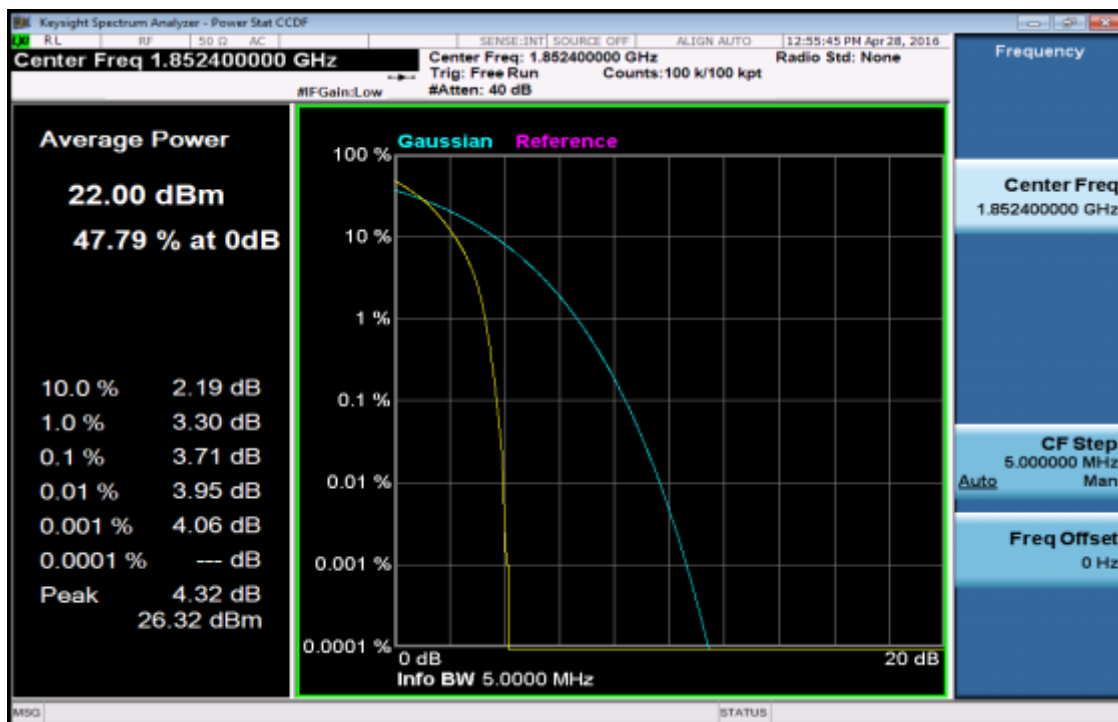
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WCDMA Band V Channel High



HSDPA Band II Channel Low



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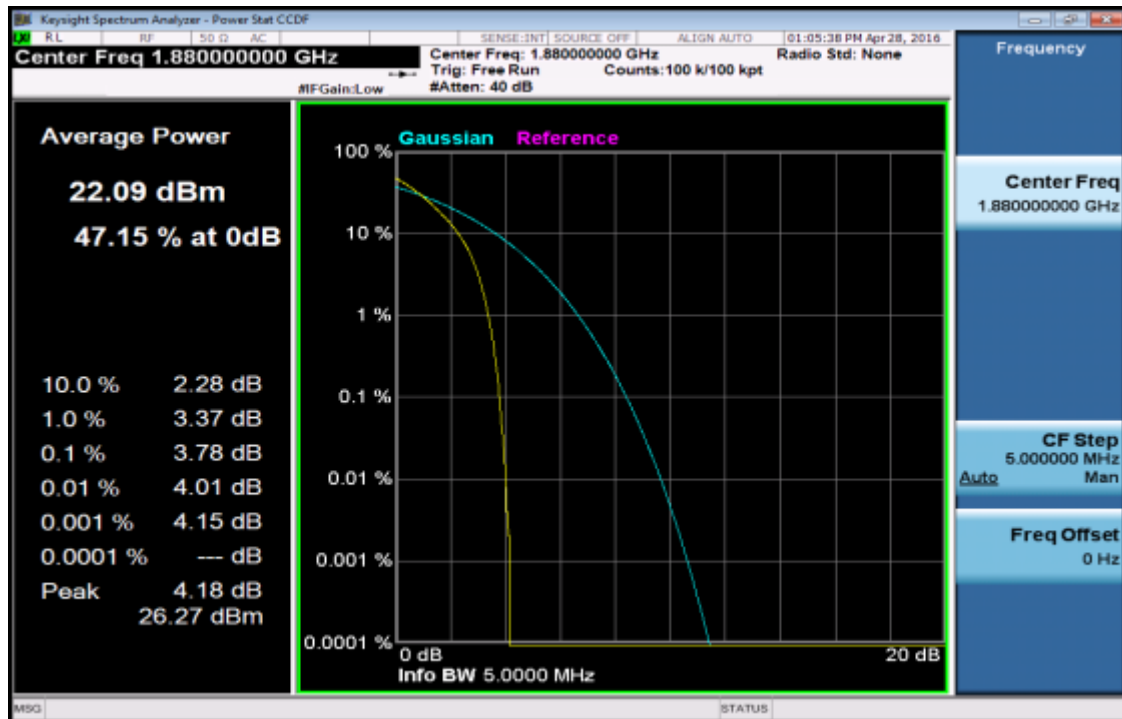
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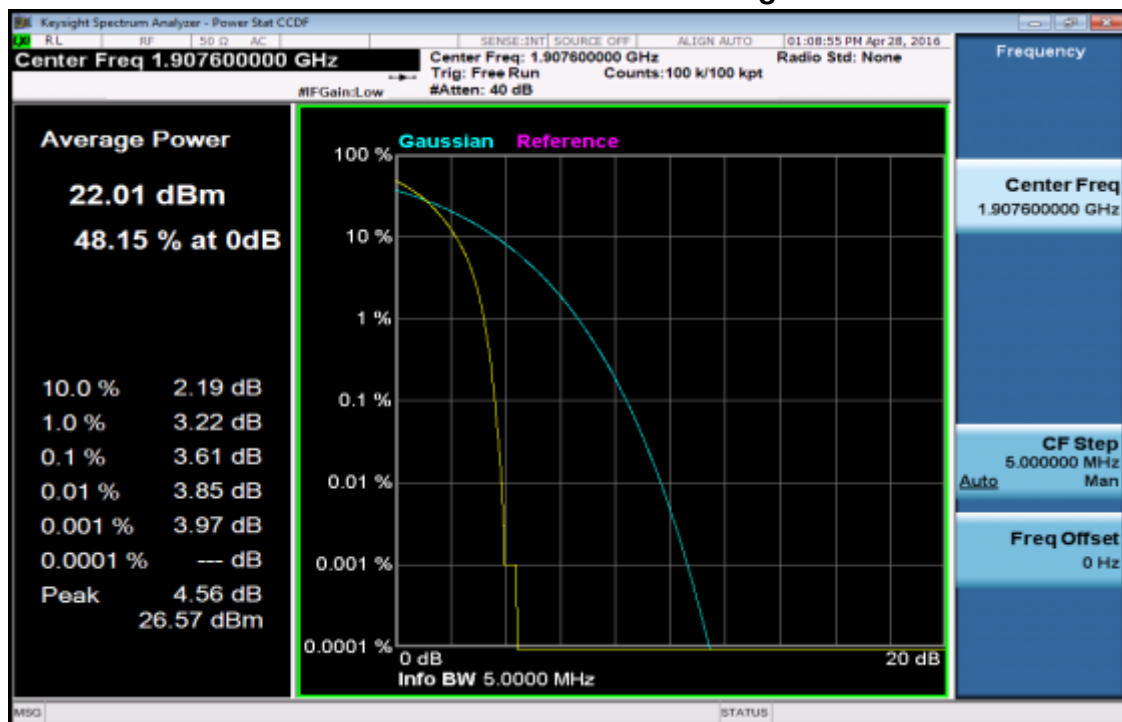
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HSDPA Band II Channel Mid



HSDPA Band II Channel High



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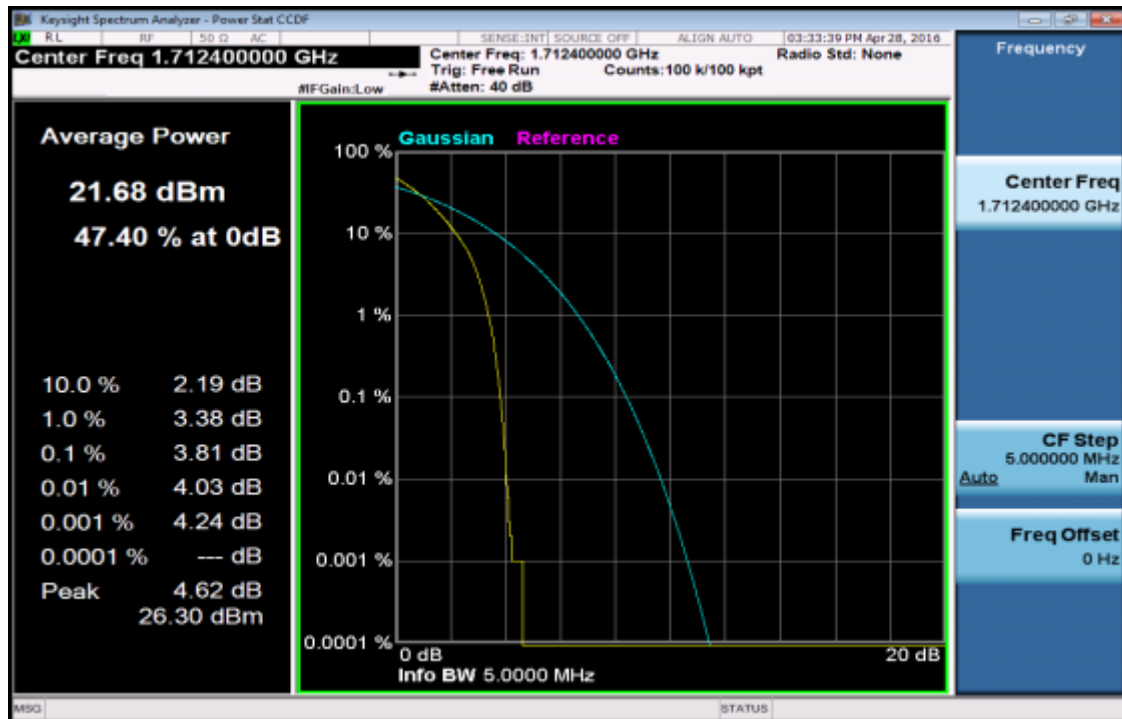
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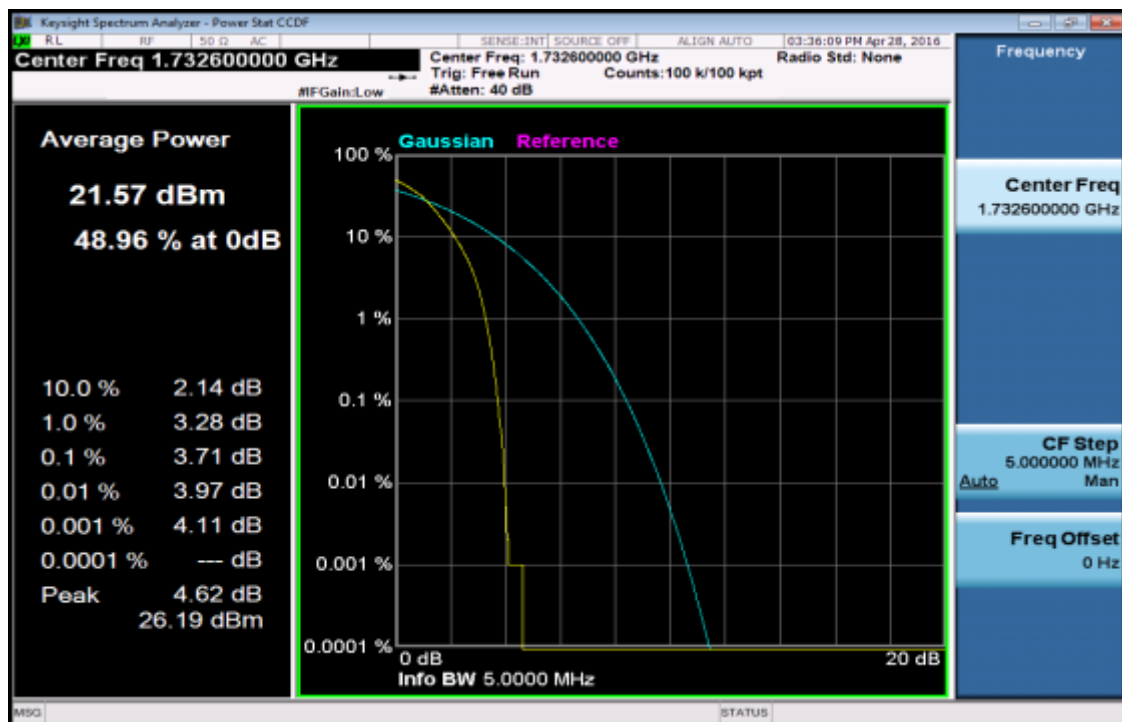
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HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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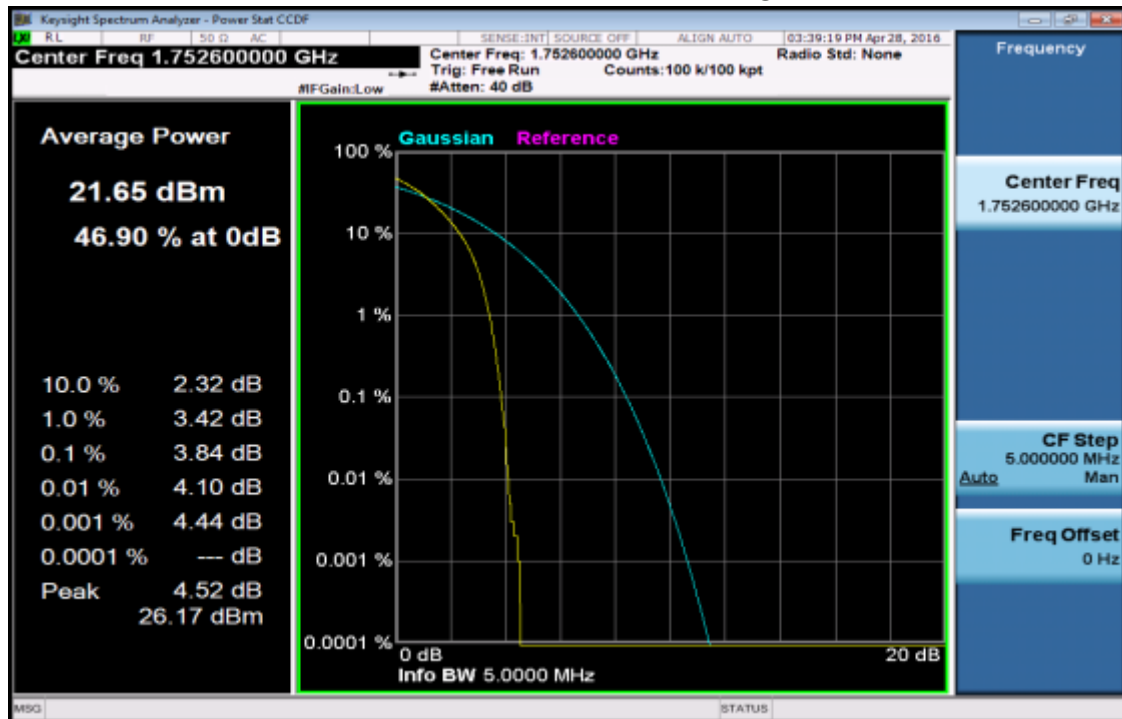
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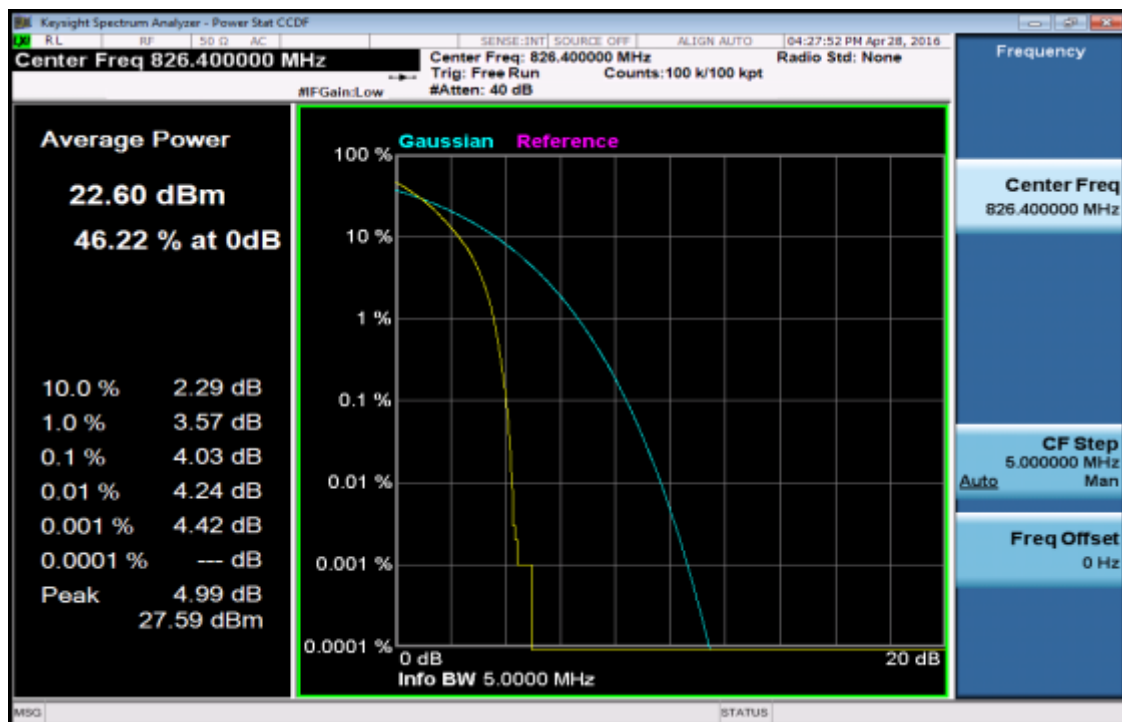
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HSDPA Band IV Channel High



HSDPA Band V Channel Low



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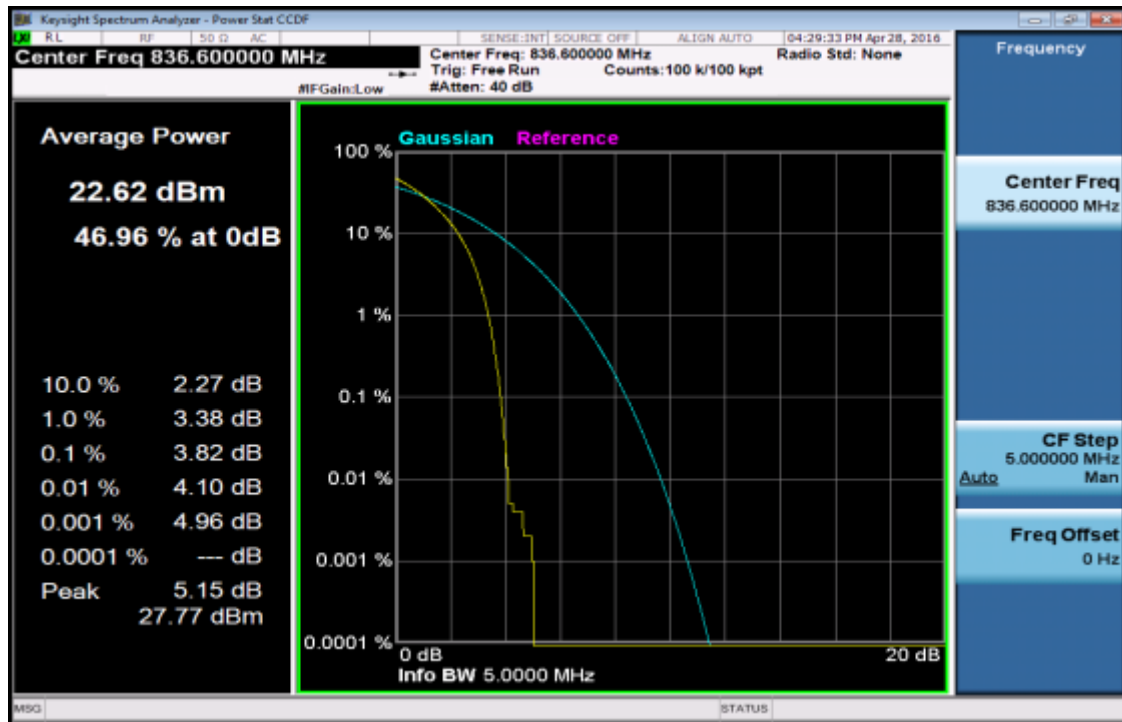
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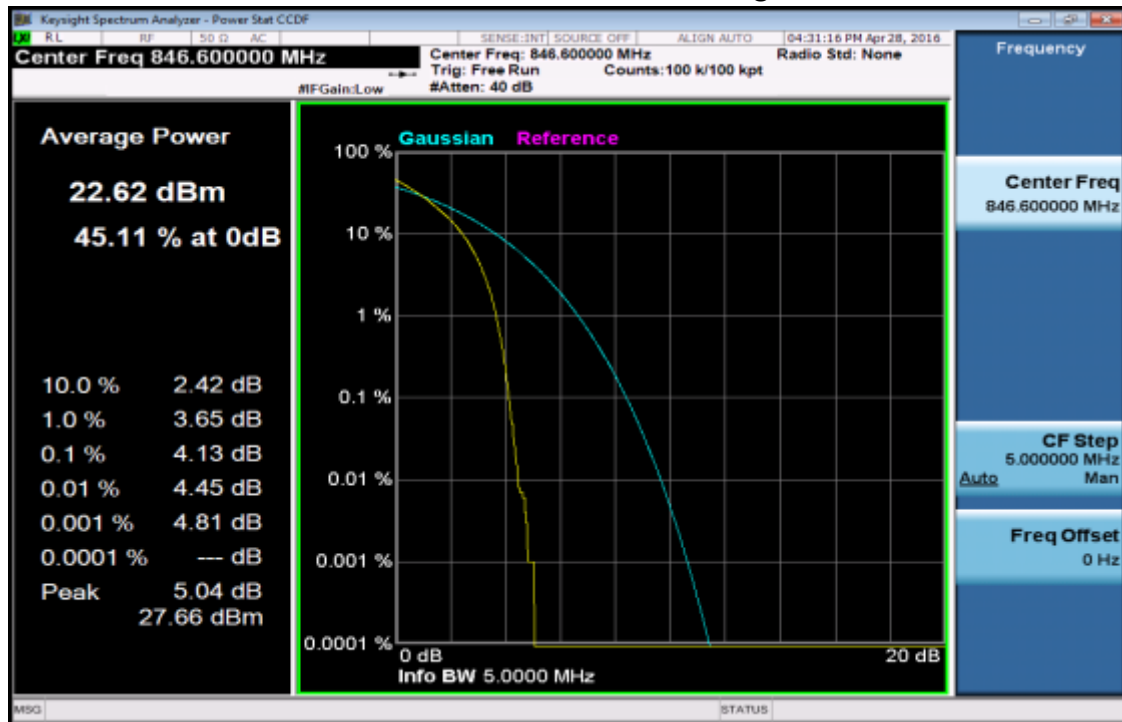
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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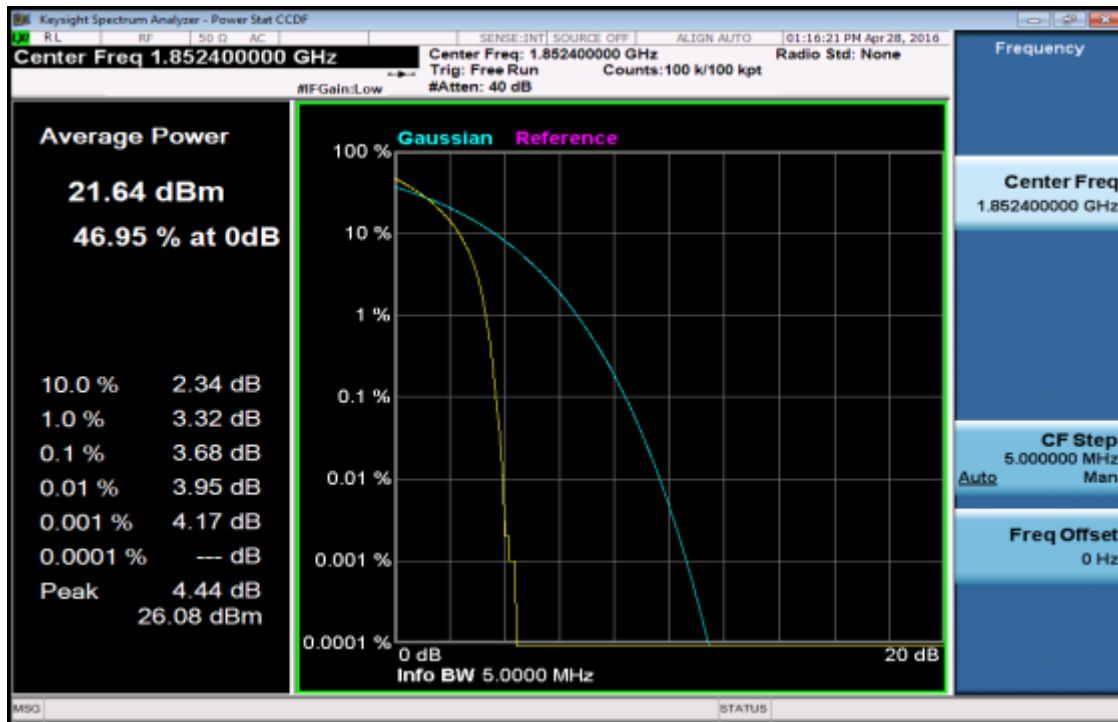
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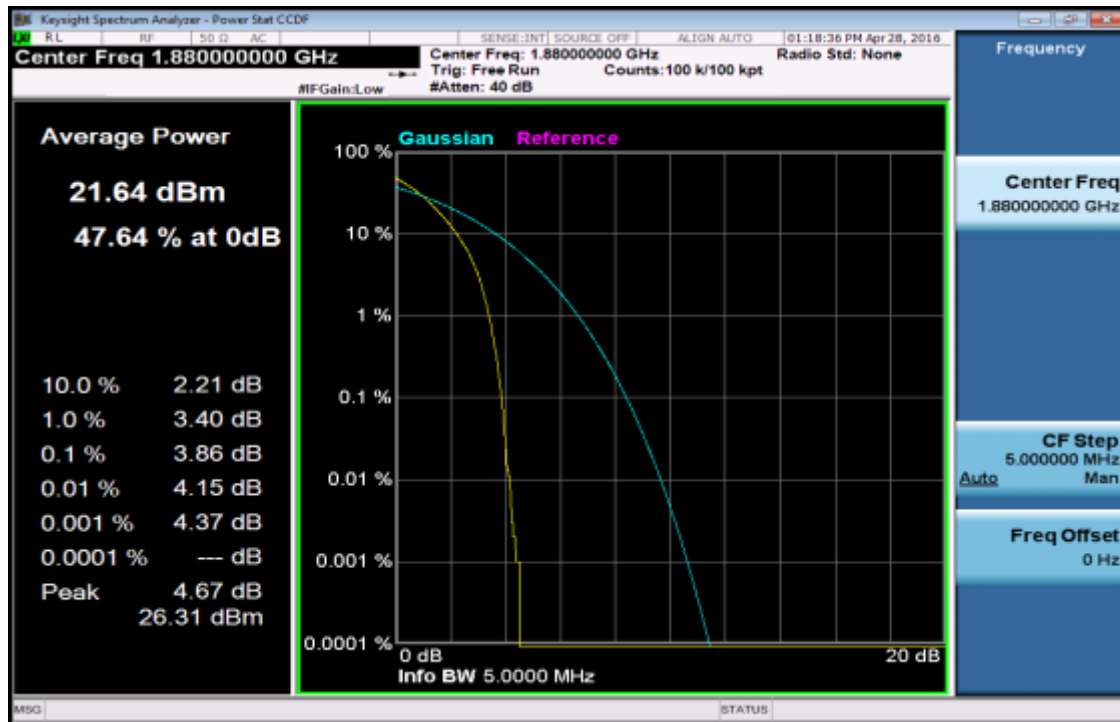
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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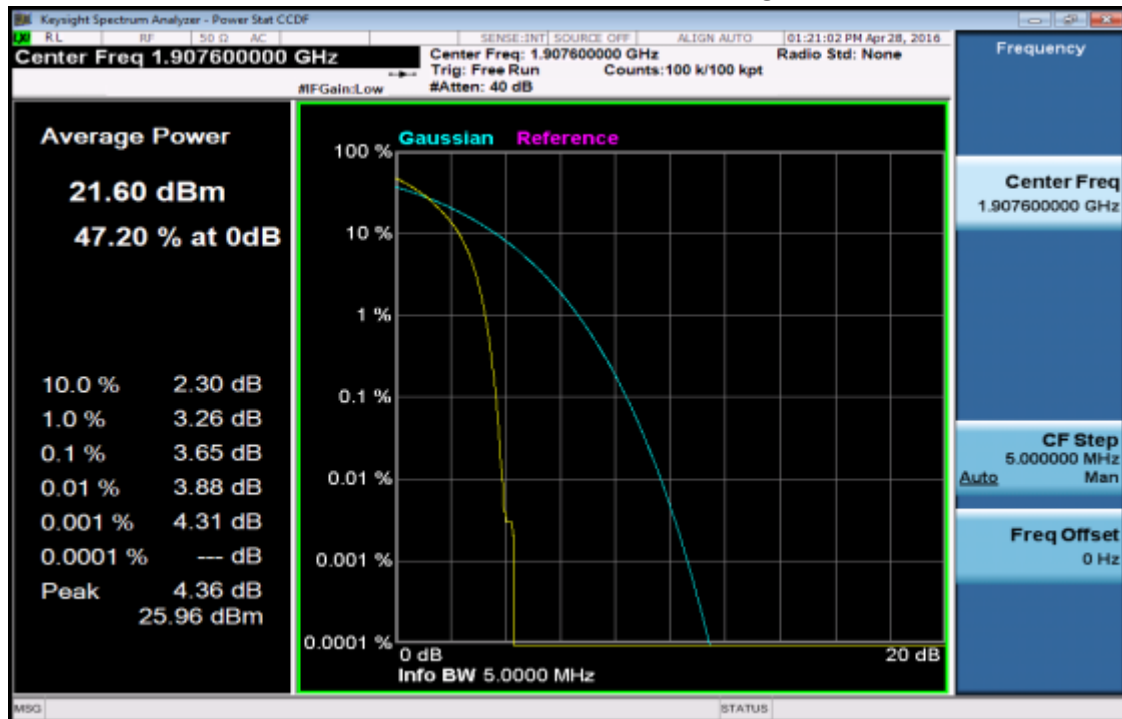
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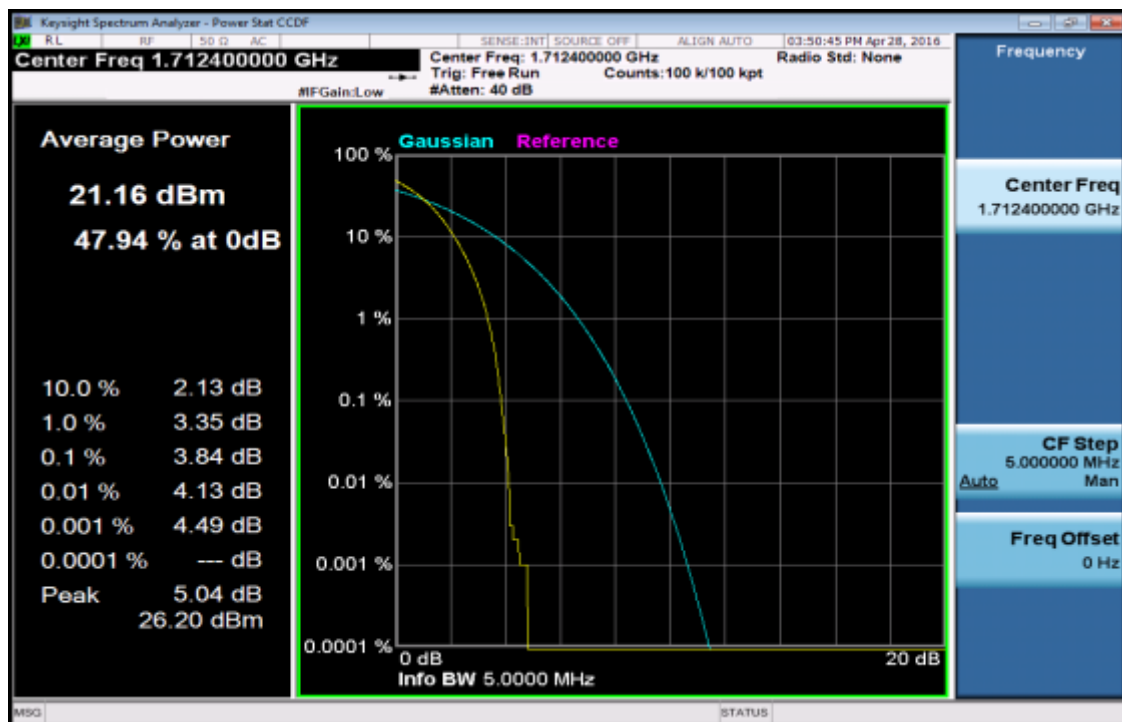
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HSUPA Band II Channel High



HSUPA Band IV Channel Low



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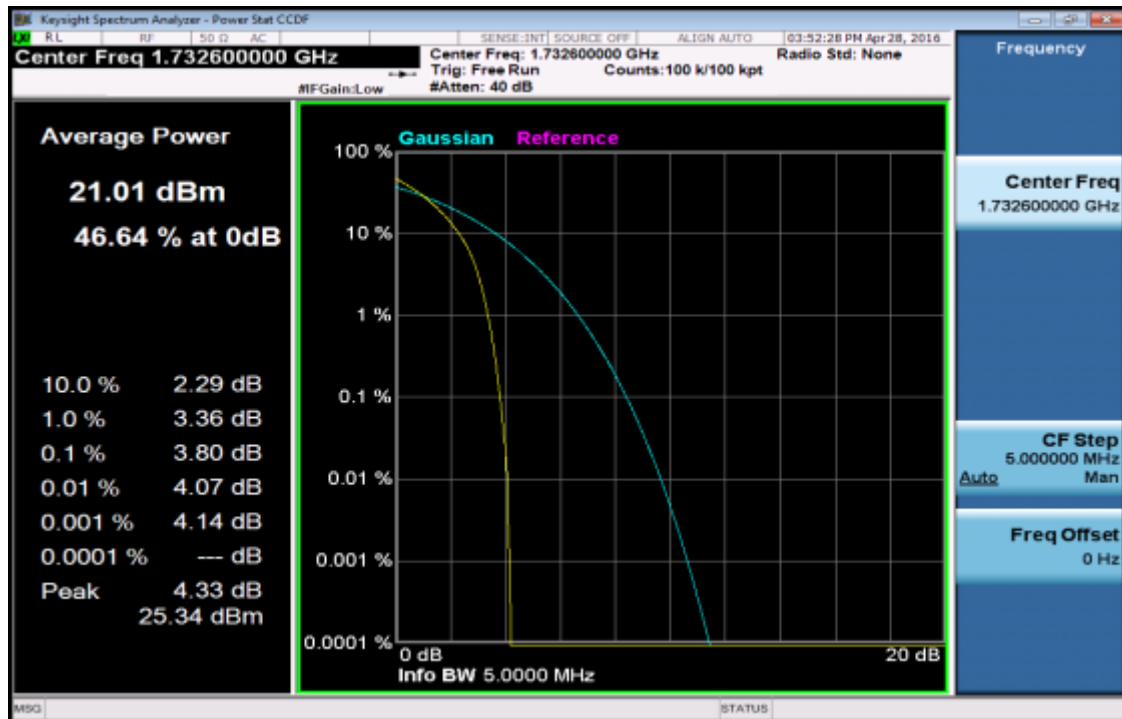
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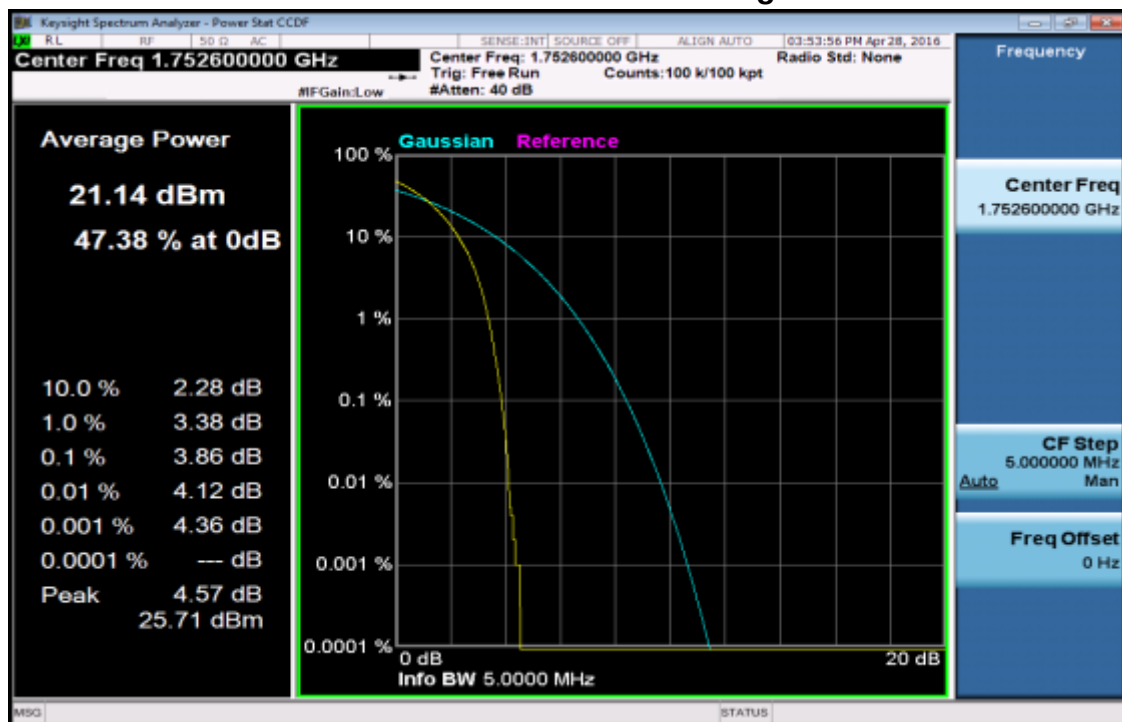
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HSUPA Band IV Channel Mid



HSUPA Band IV Channel High



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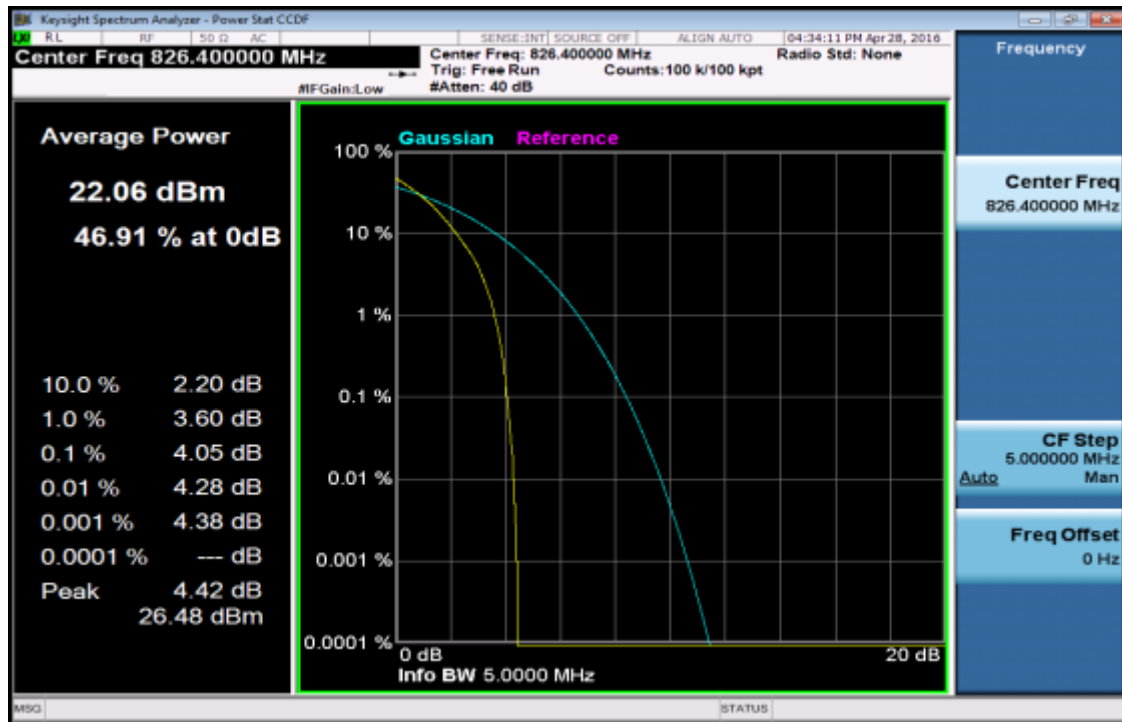
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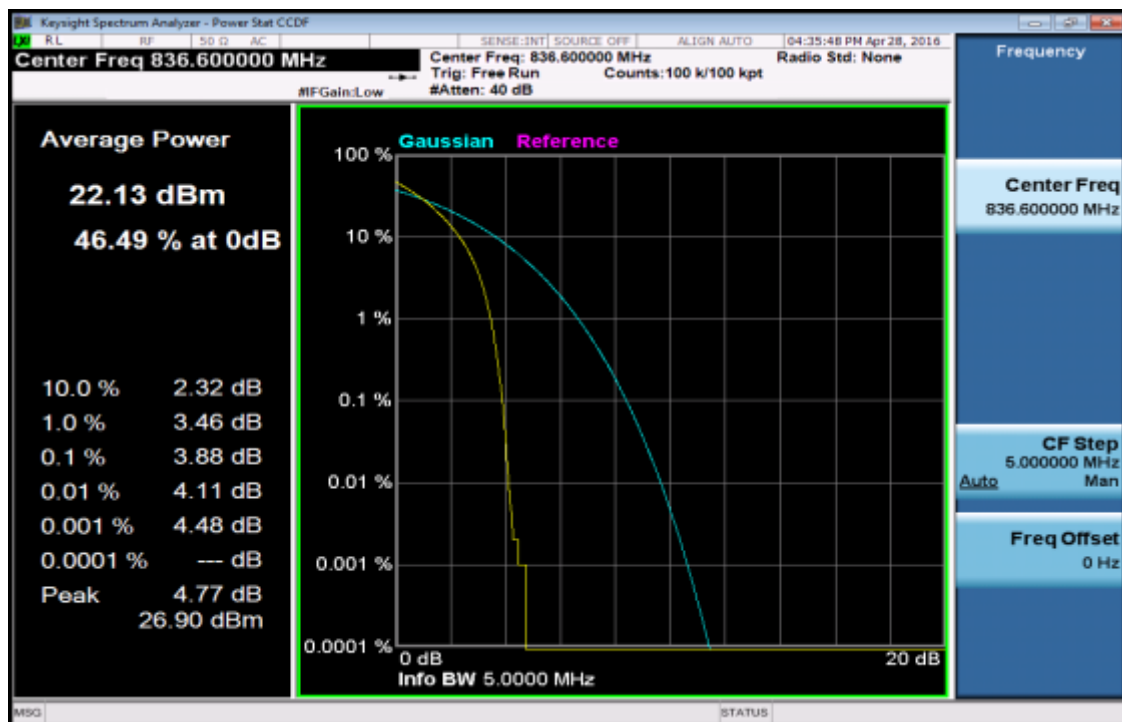
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HSUPA Band V Channel Low



HSUPA Band V Channel Mid



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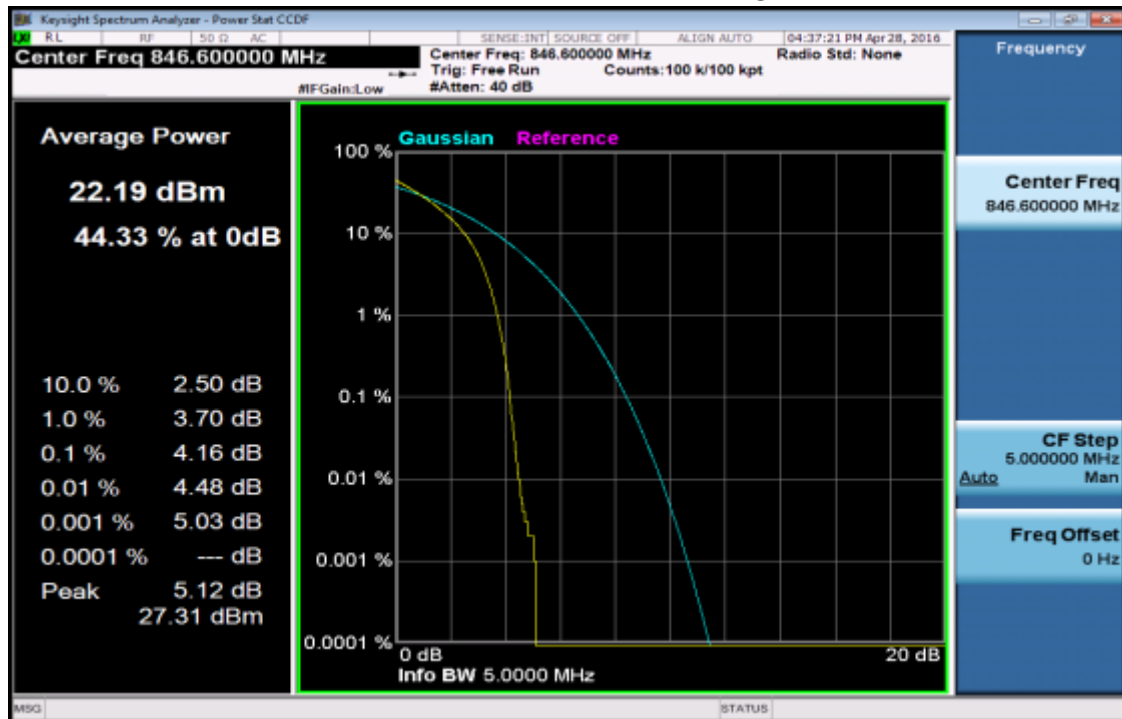
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HSUPA Band V Channel High



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



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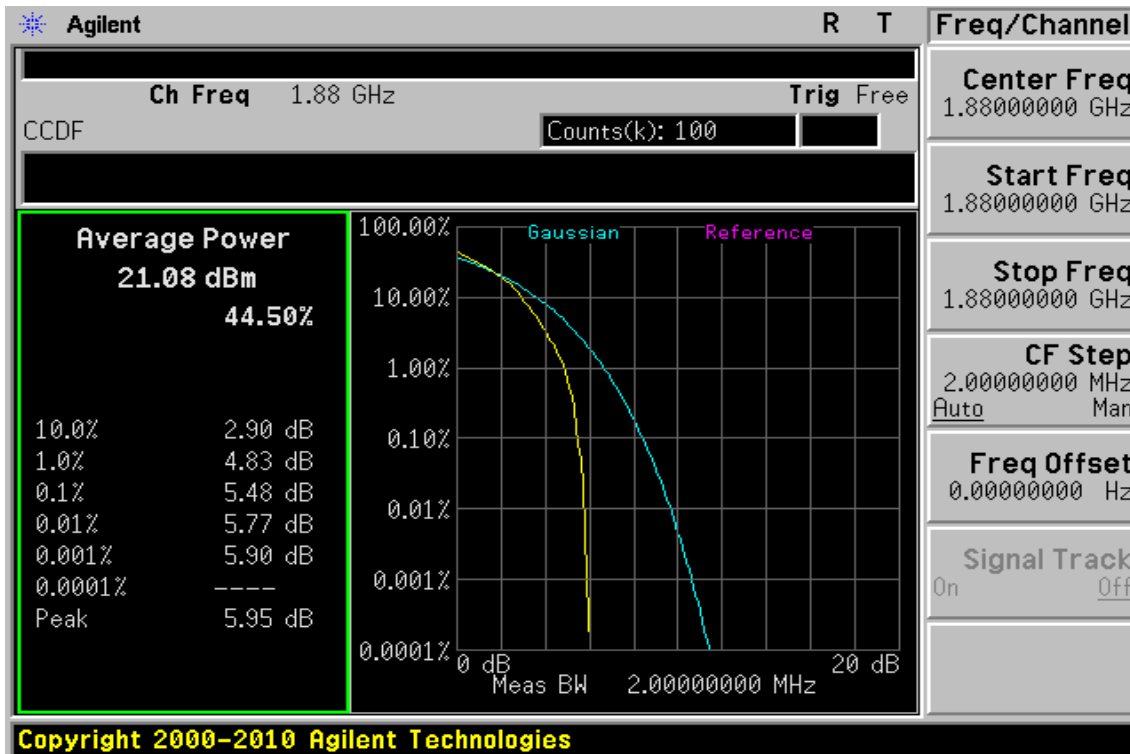
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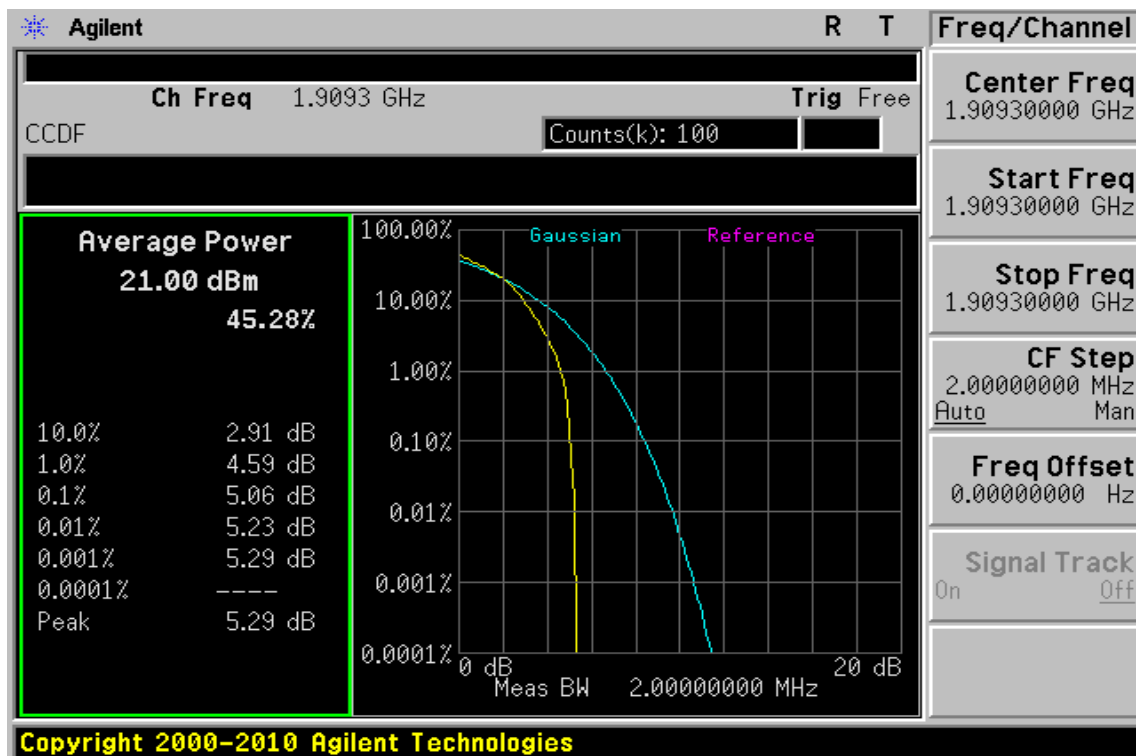
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1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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



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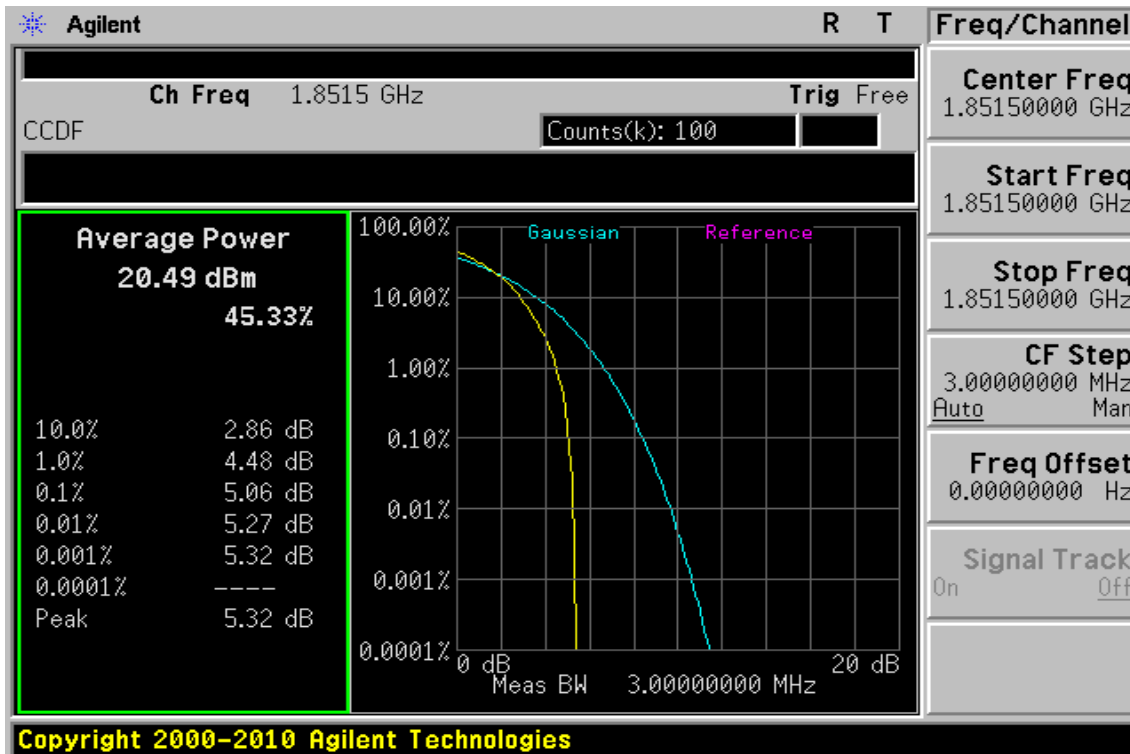
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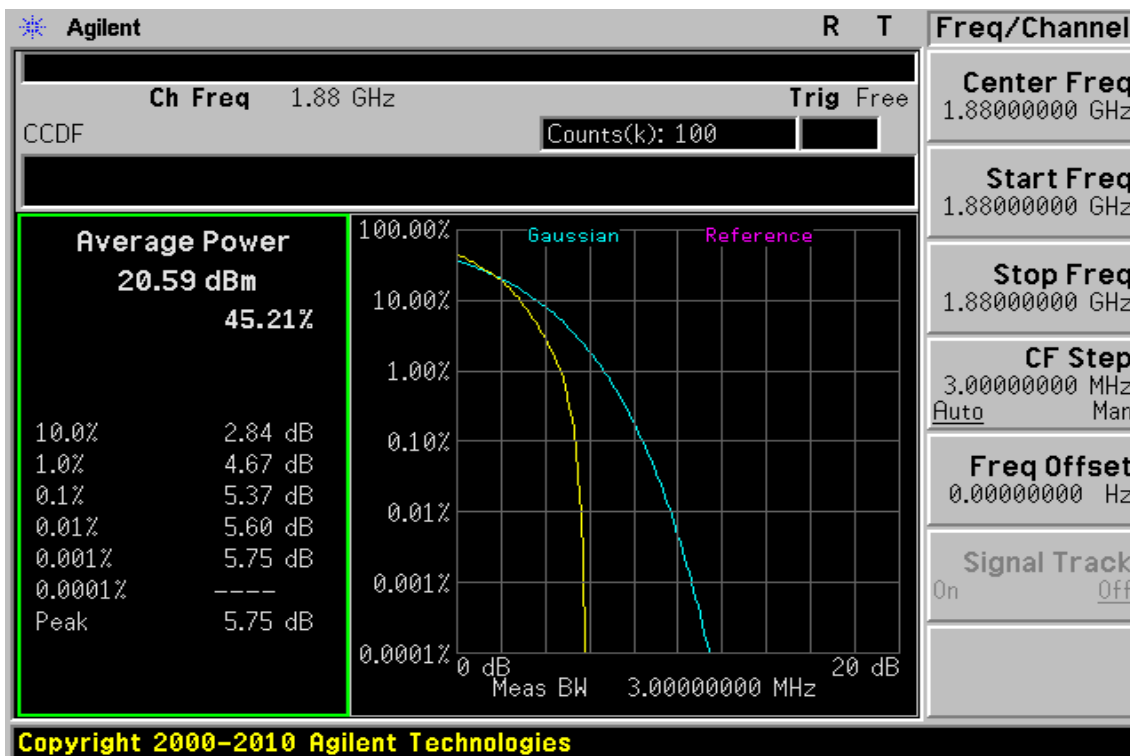
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3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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



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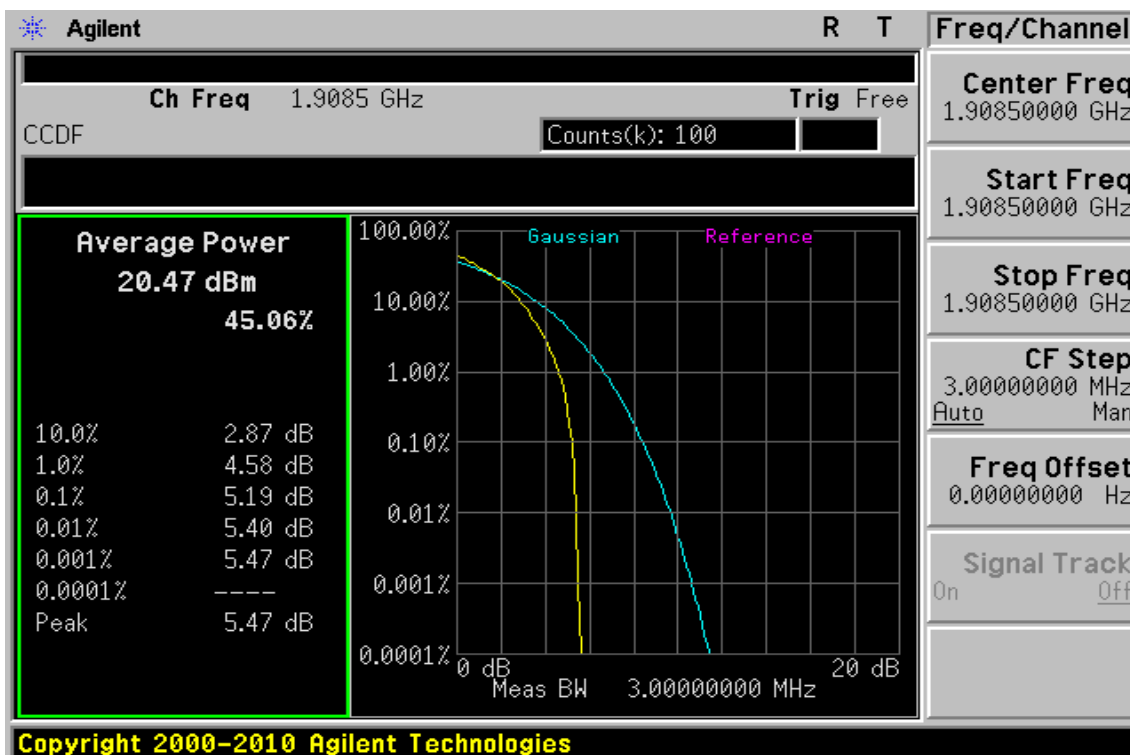
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3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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



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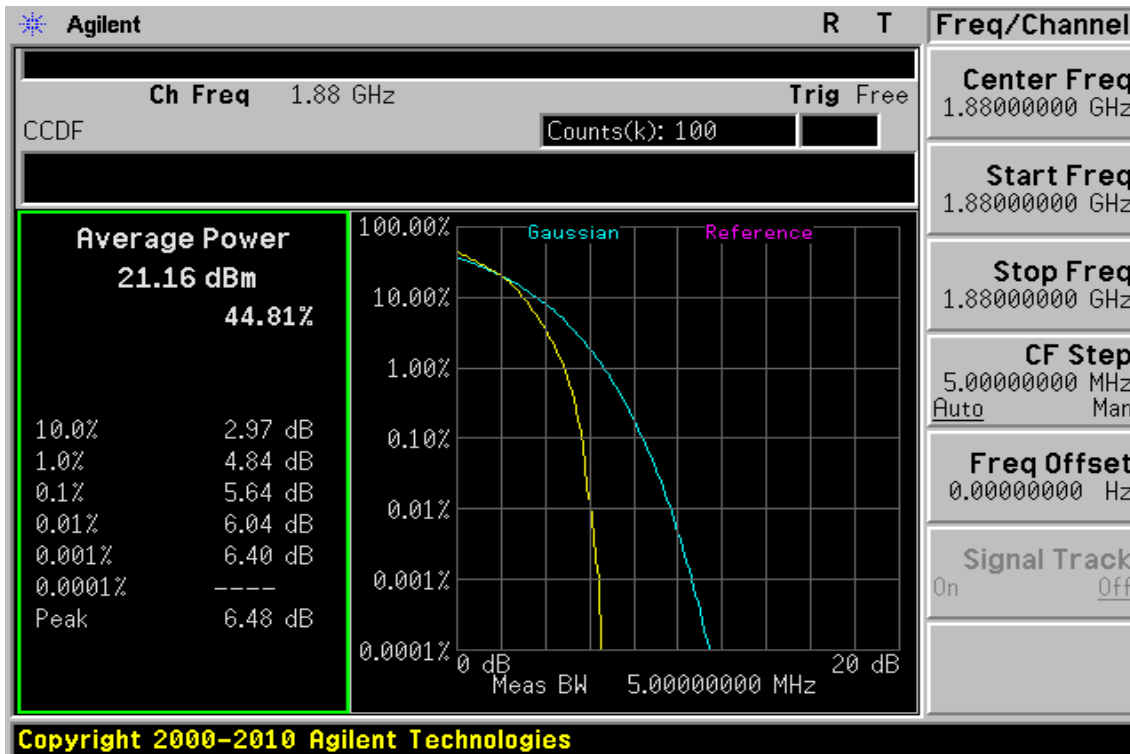
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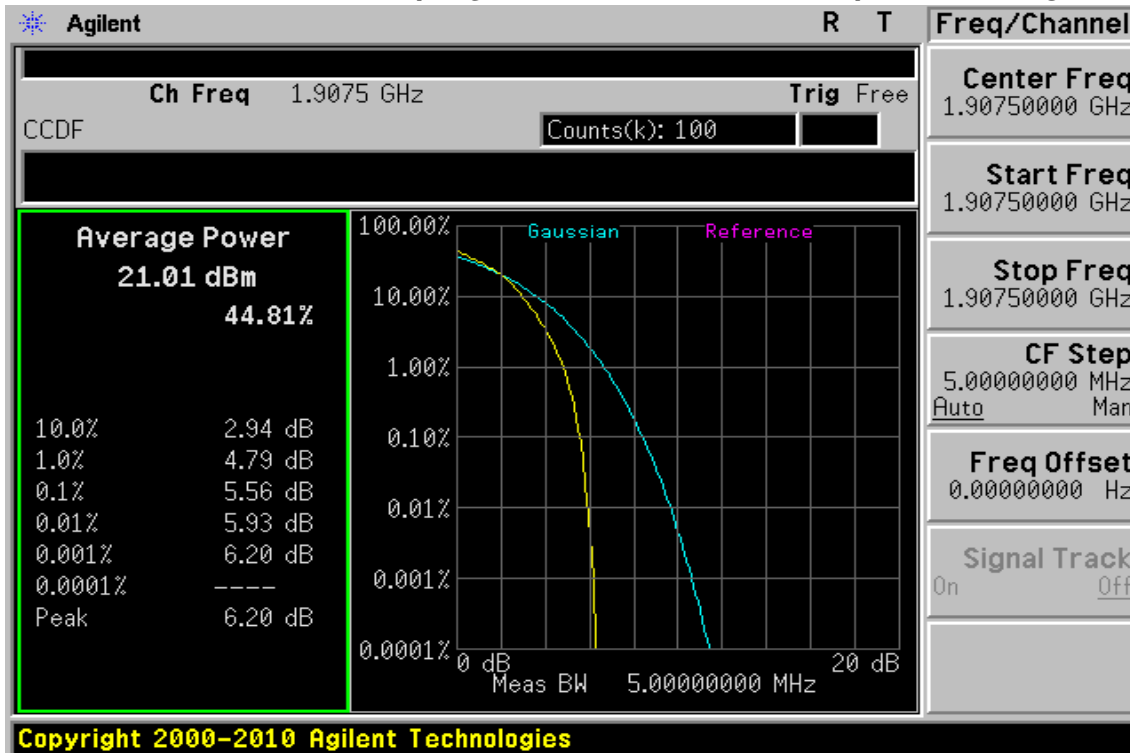
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5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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



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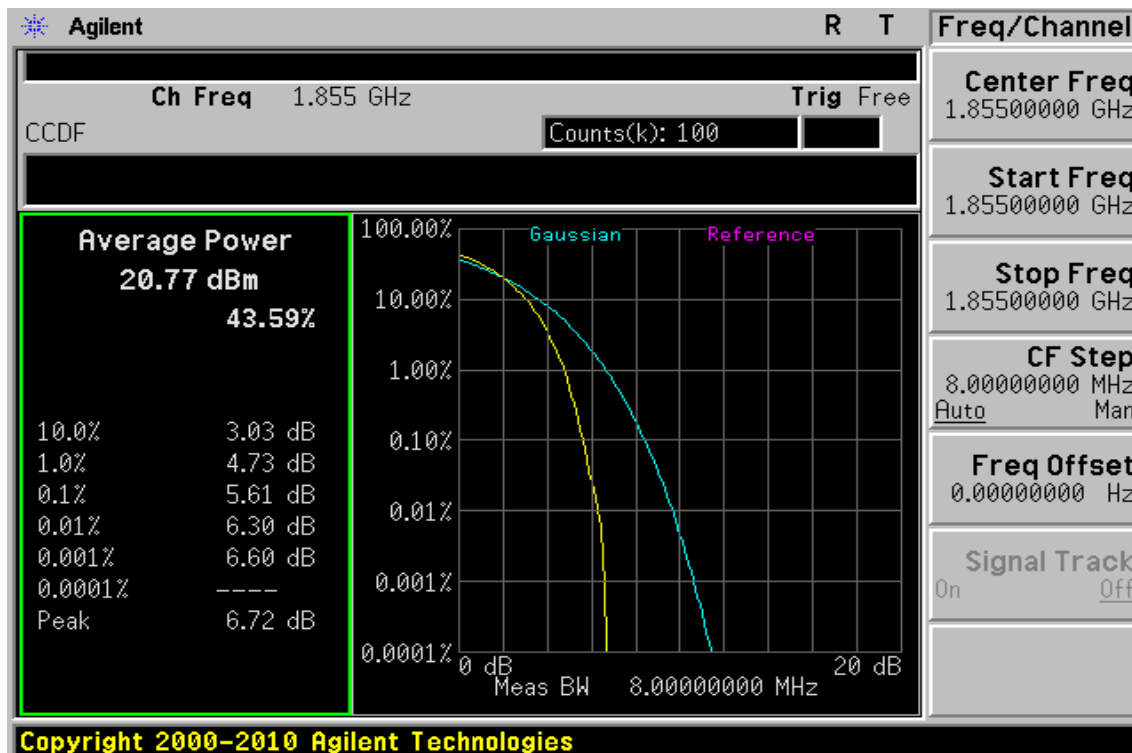
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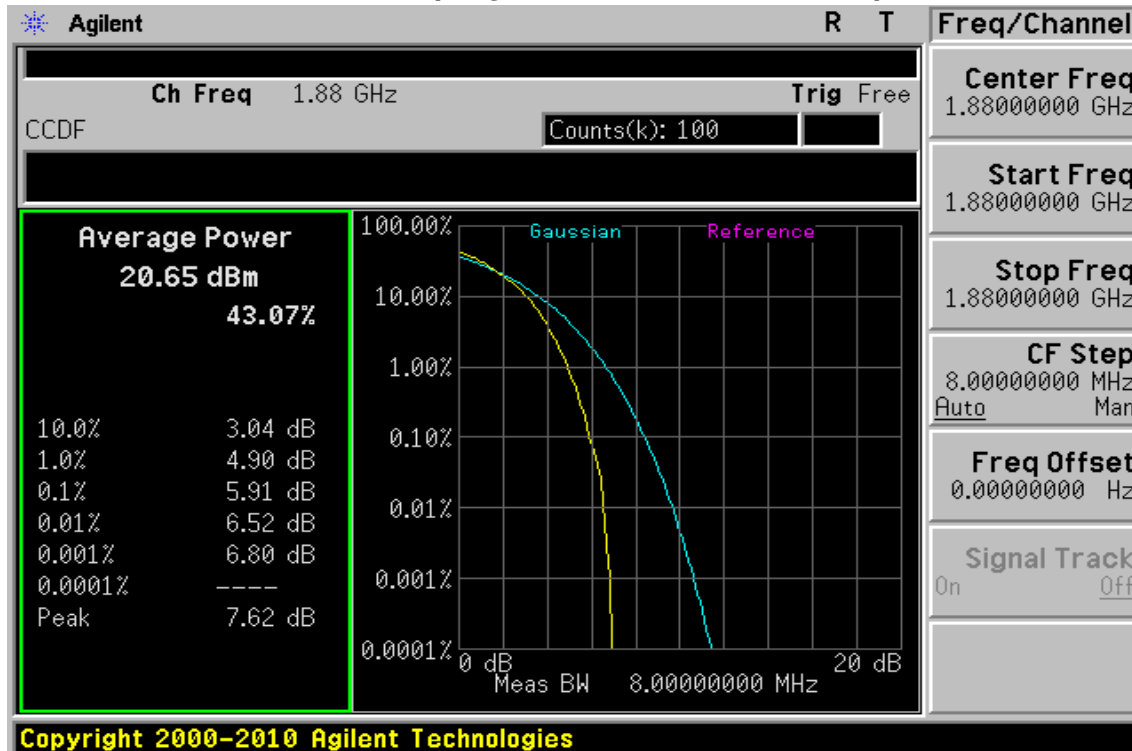
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10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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



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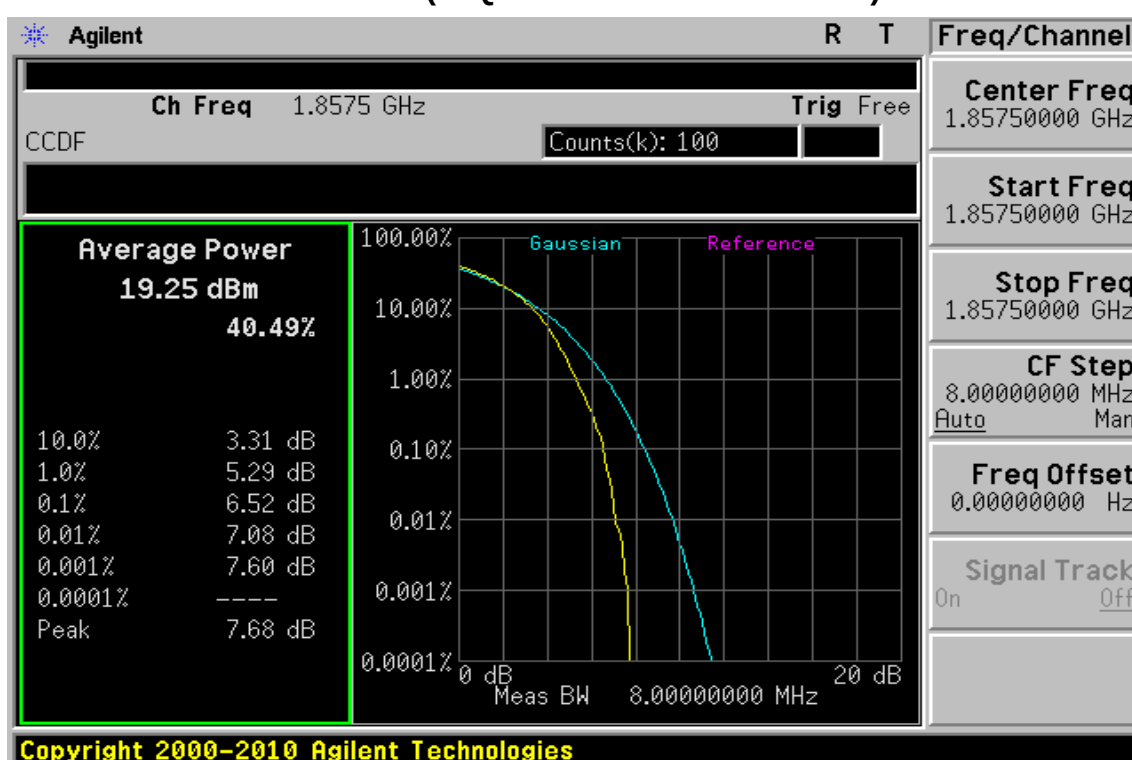
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10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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



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



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



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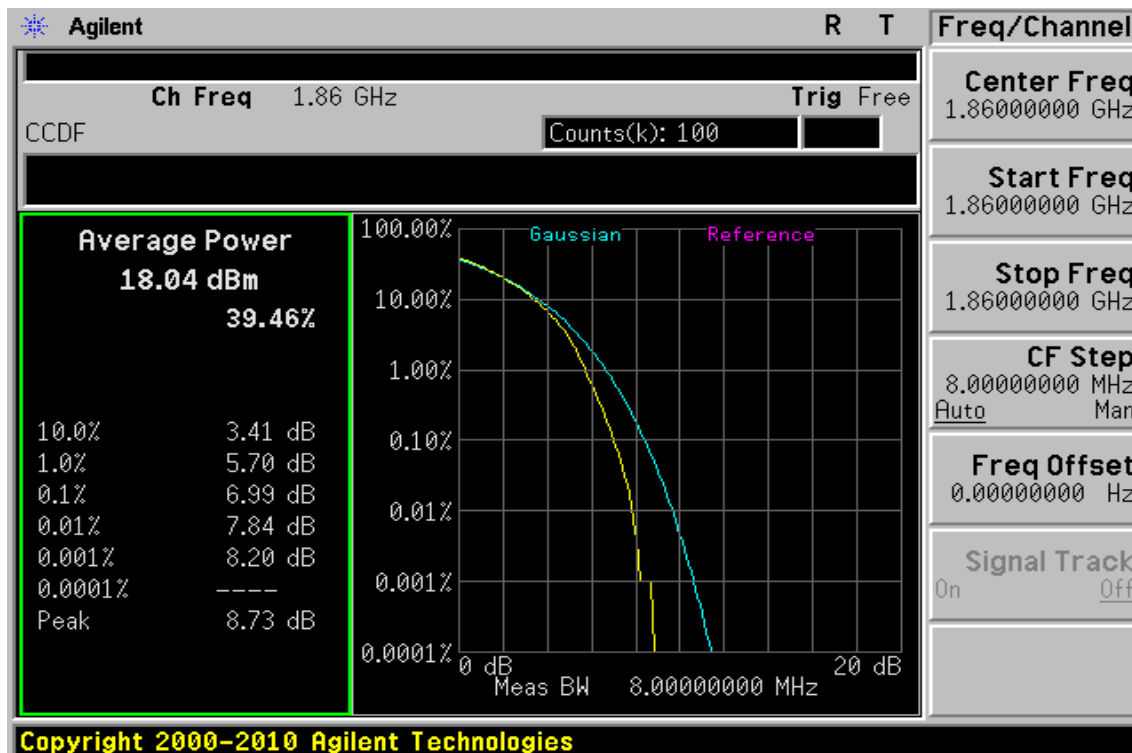
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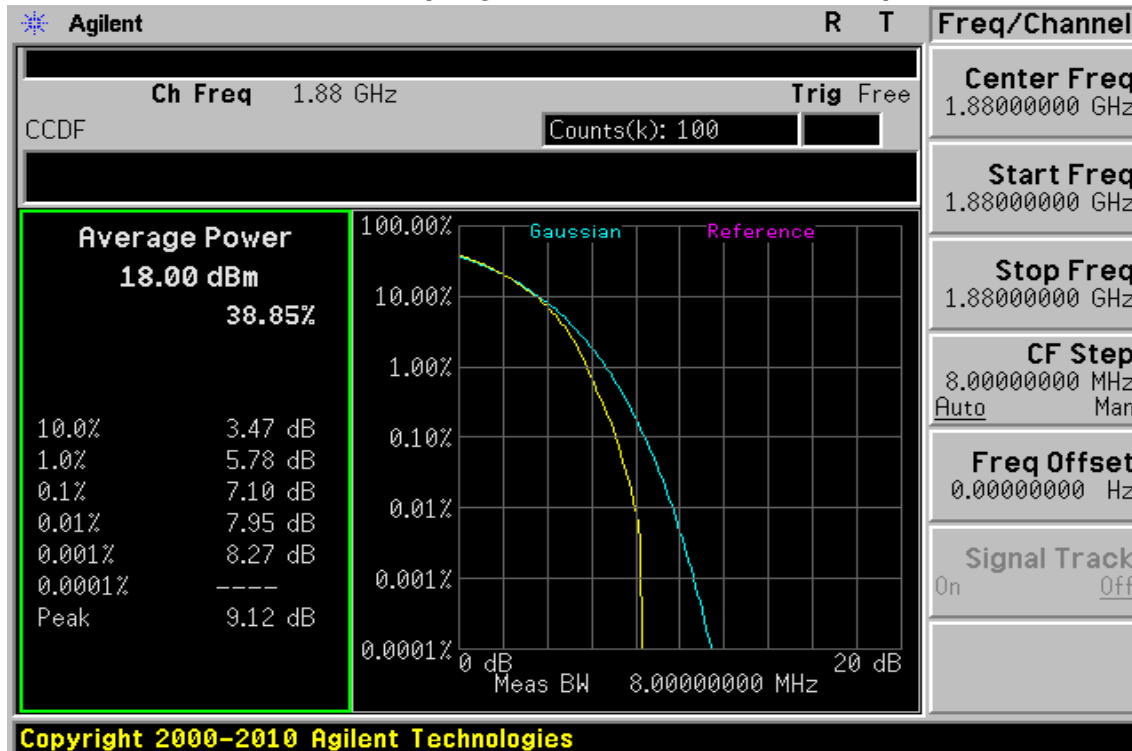
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20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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



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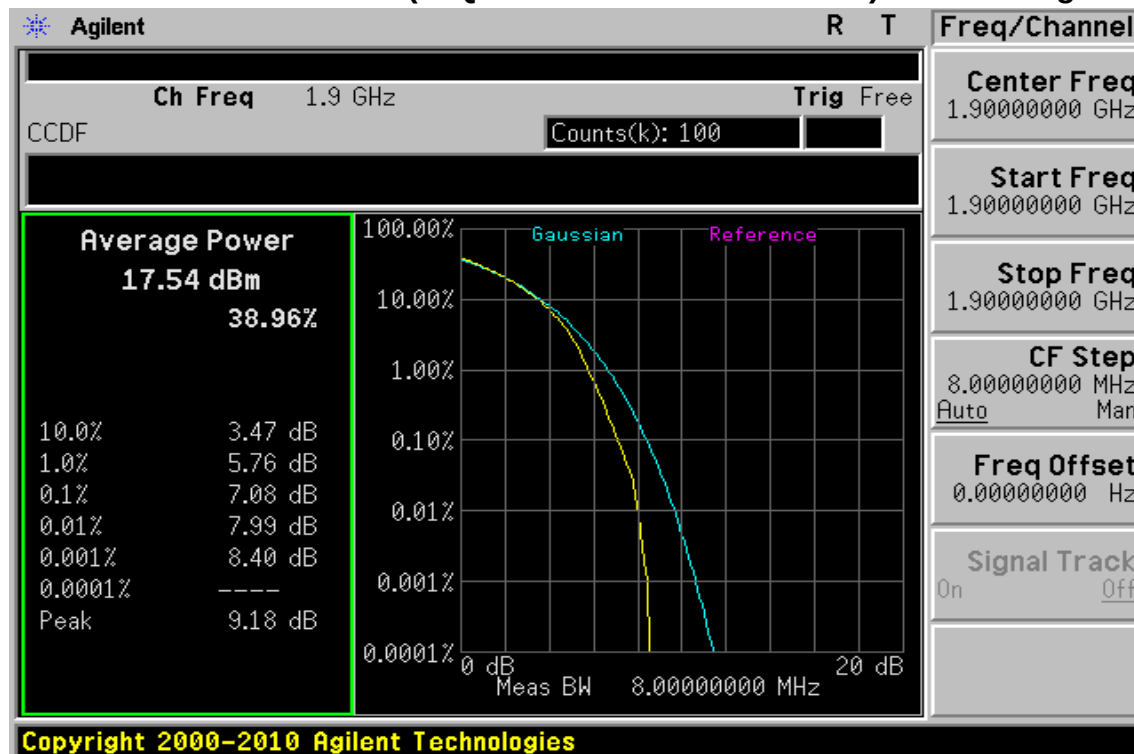
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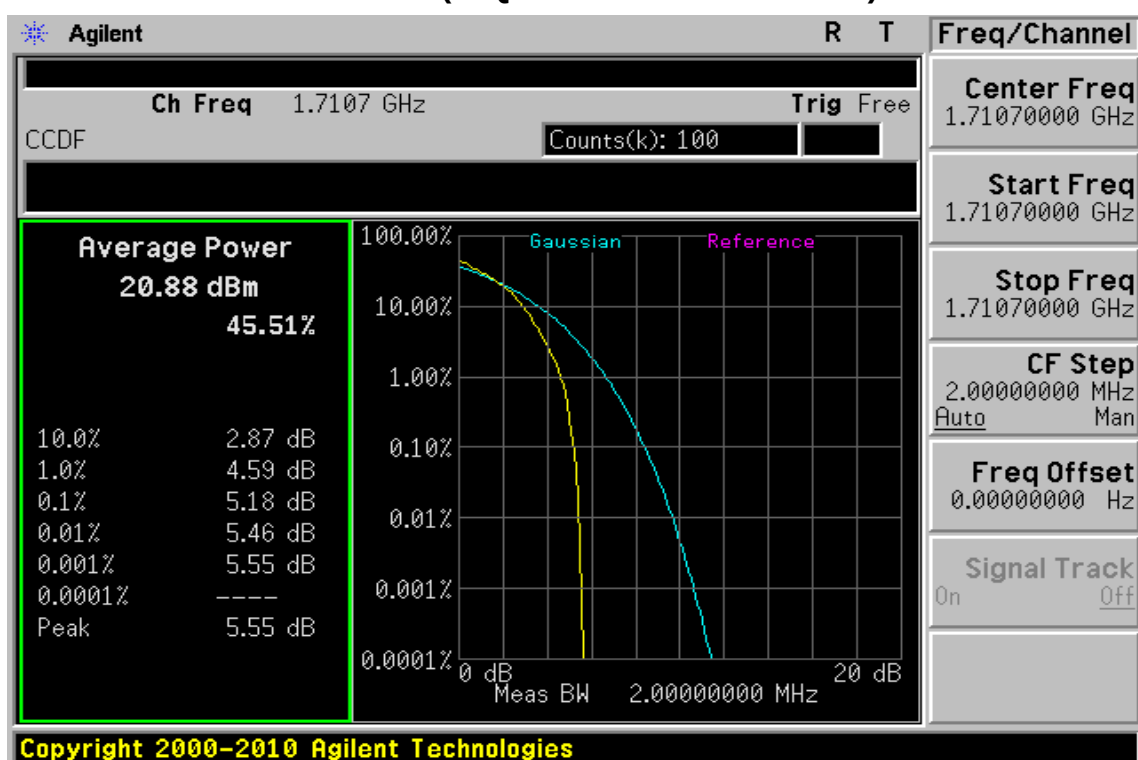
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20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low



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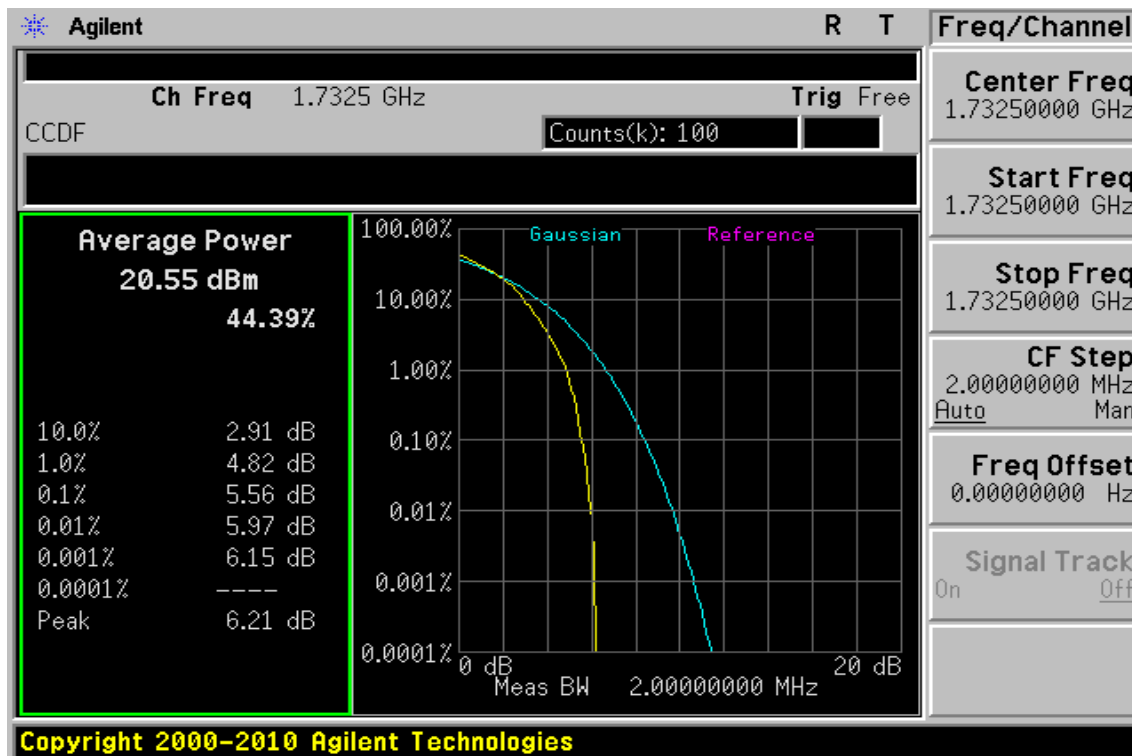
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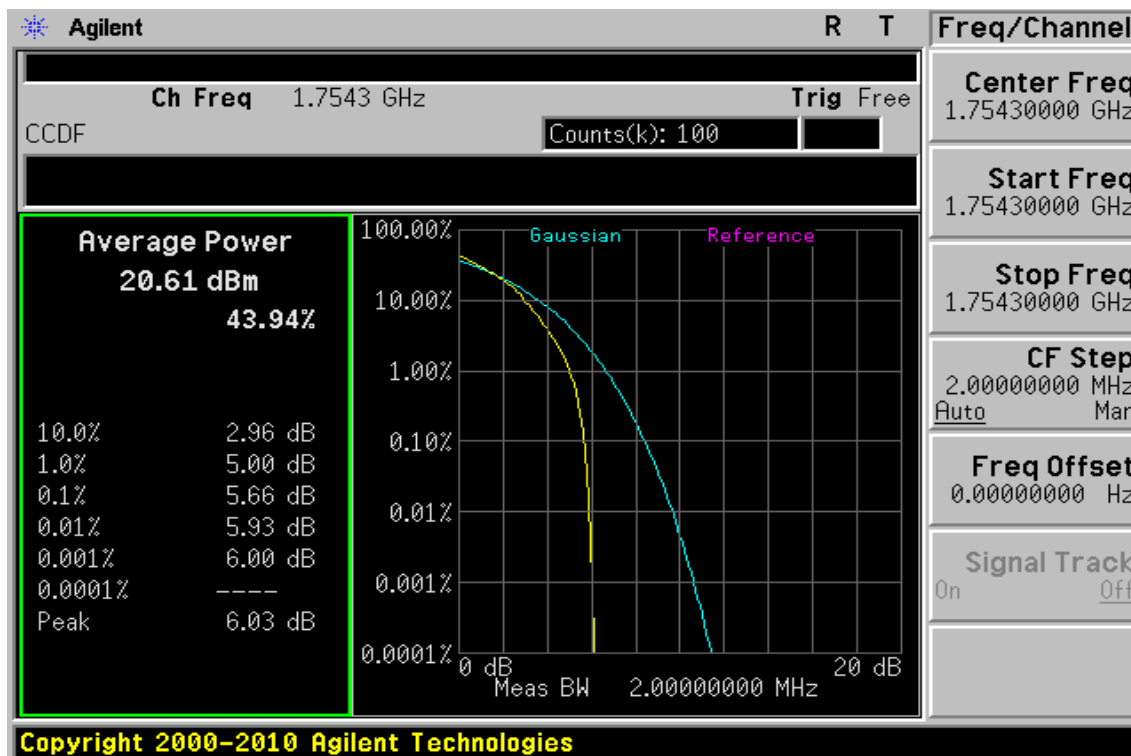
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1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High



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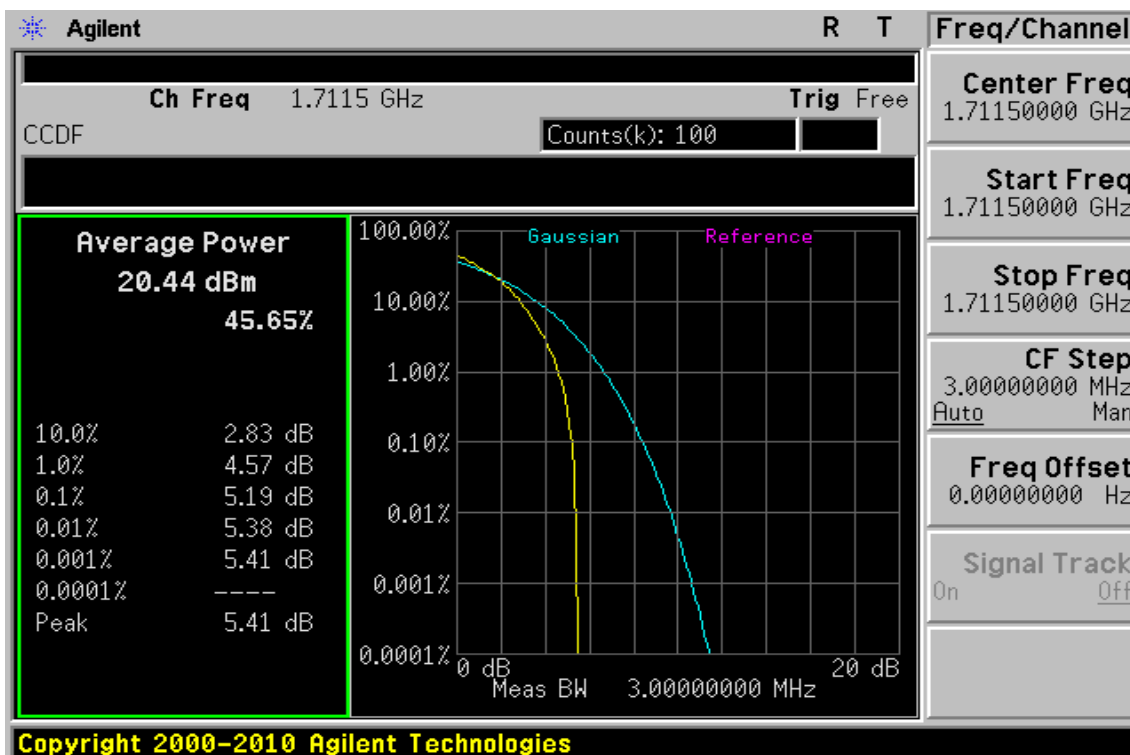
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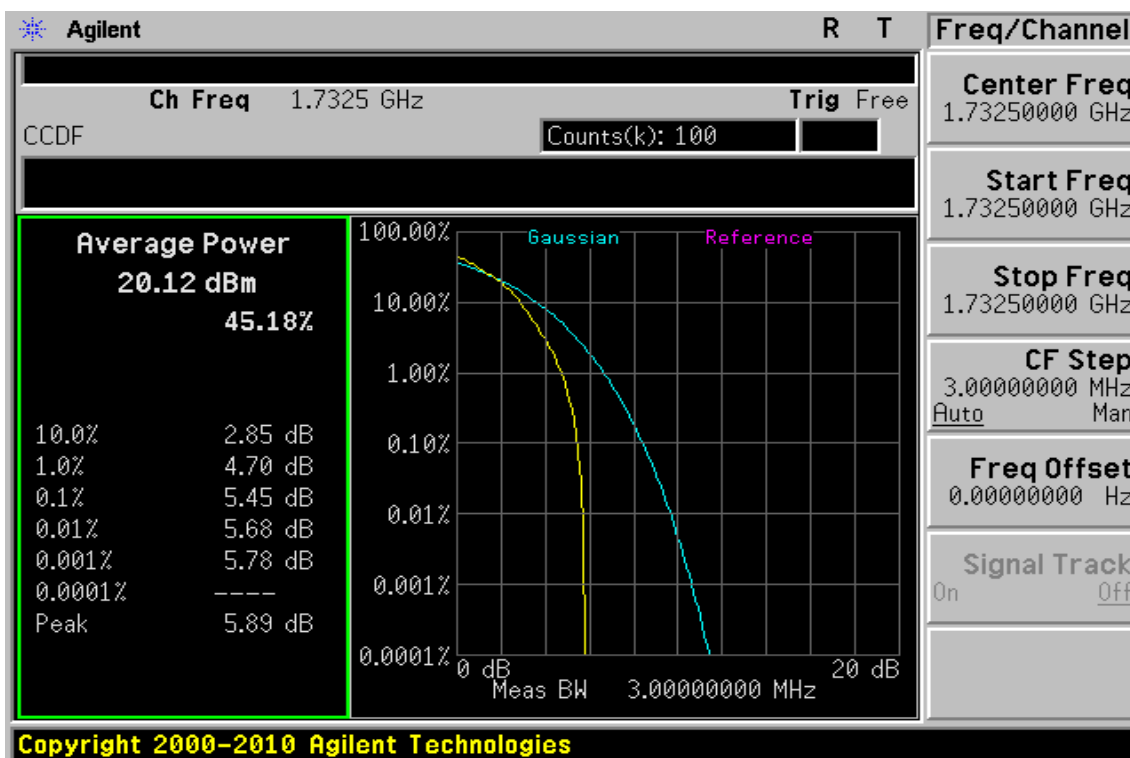
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3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid



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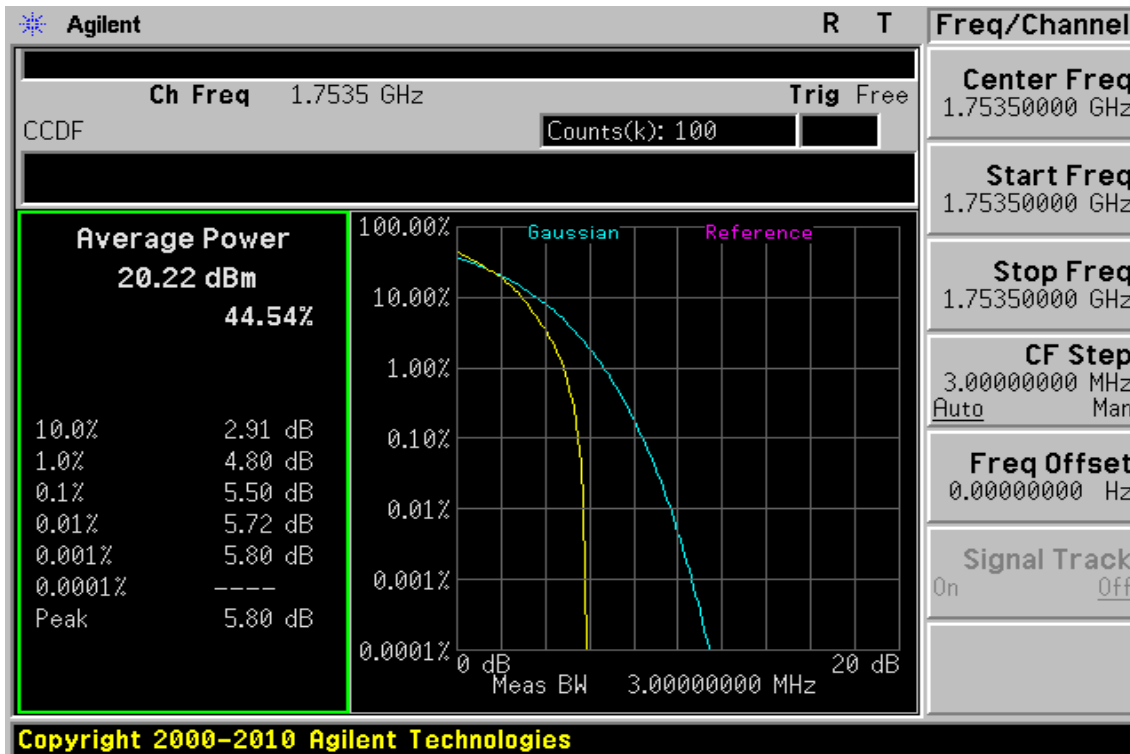
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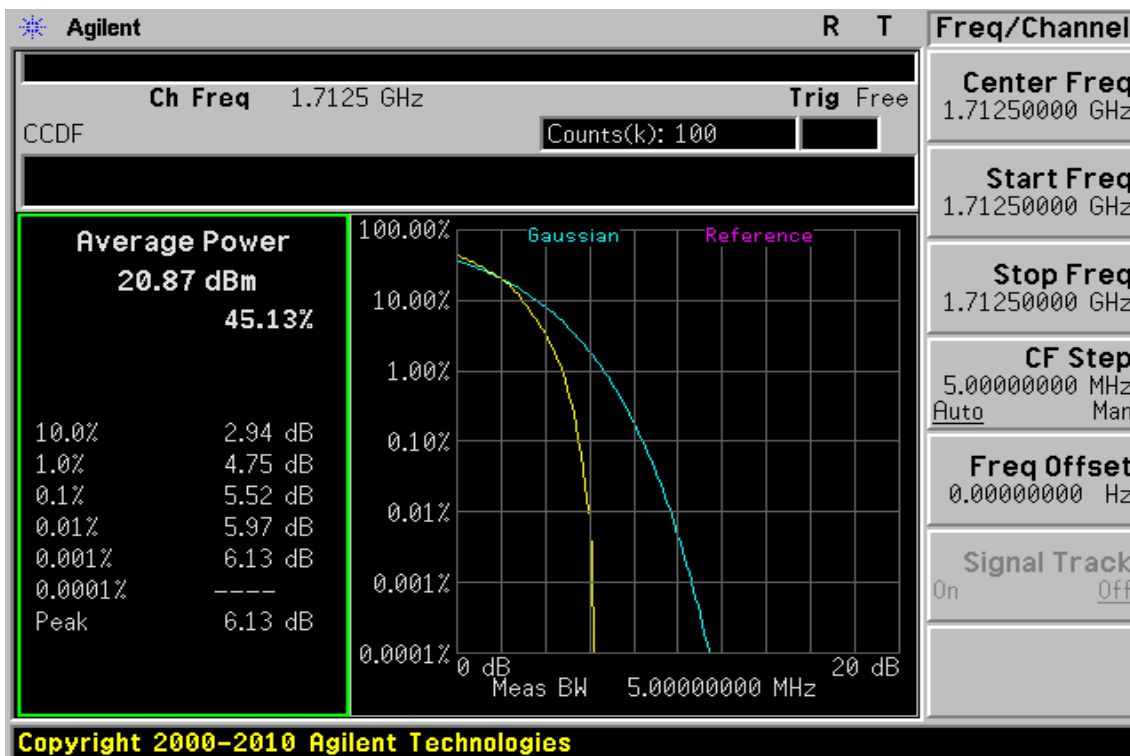
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3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



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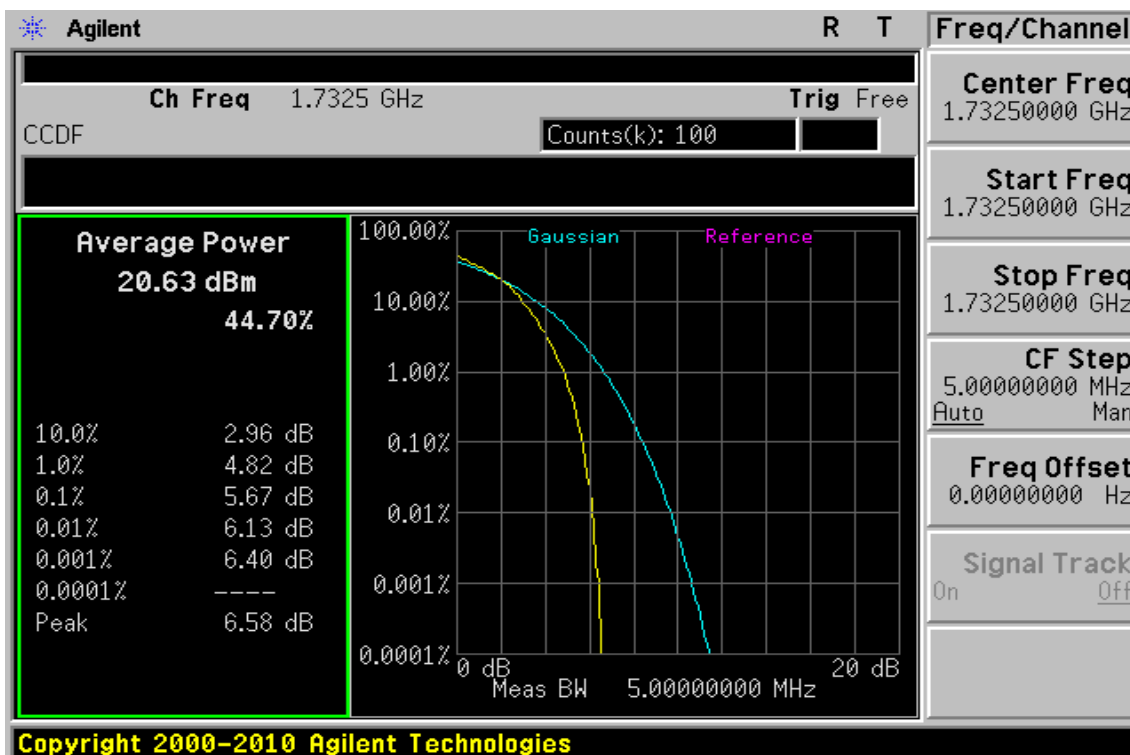
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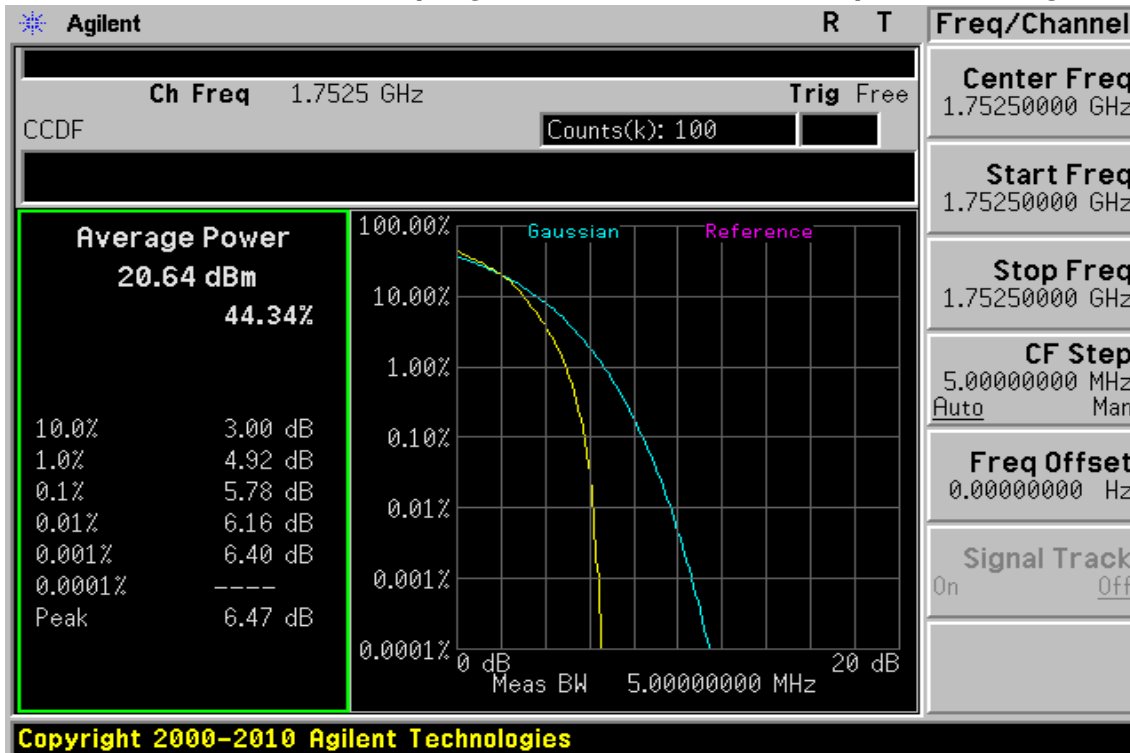
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5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High



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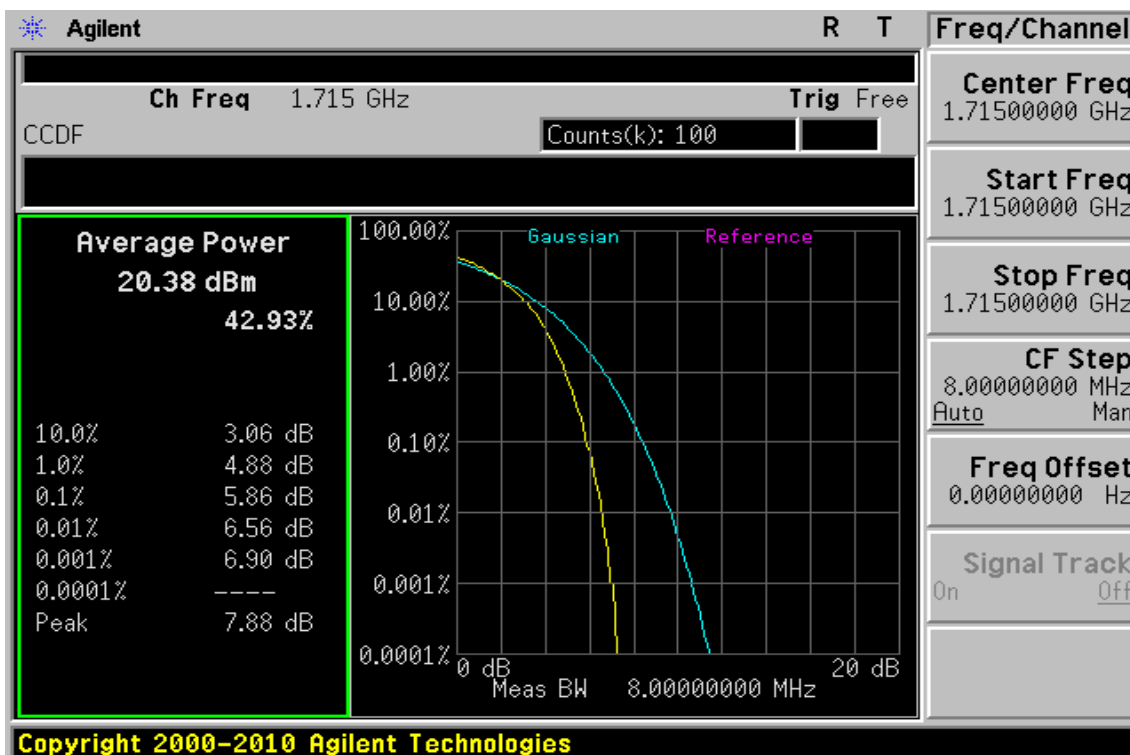
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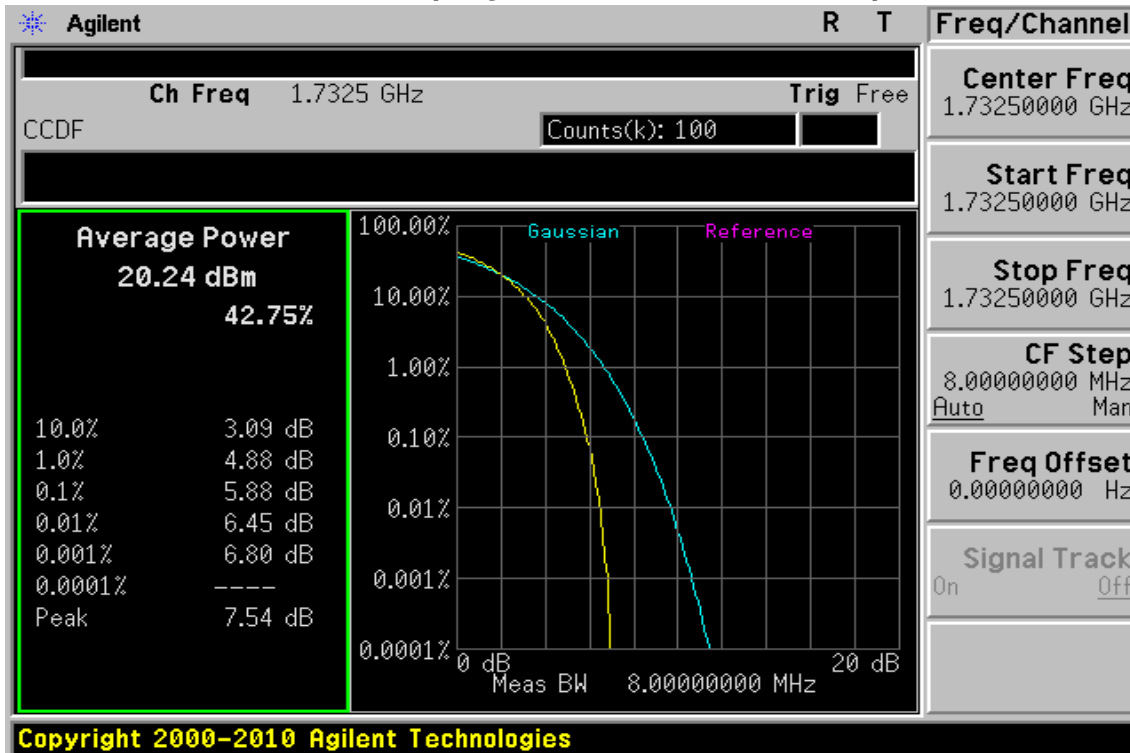
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10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid



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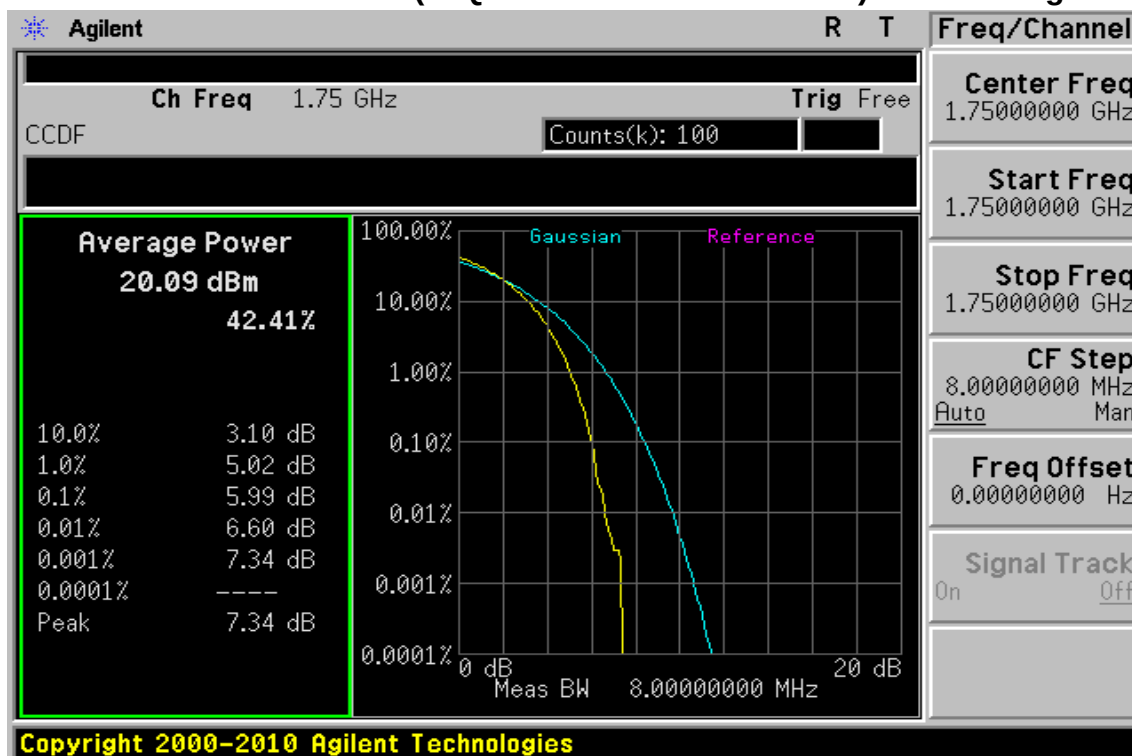
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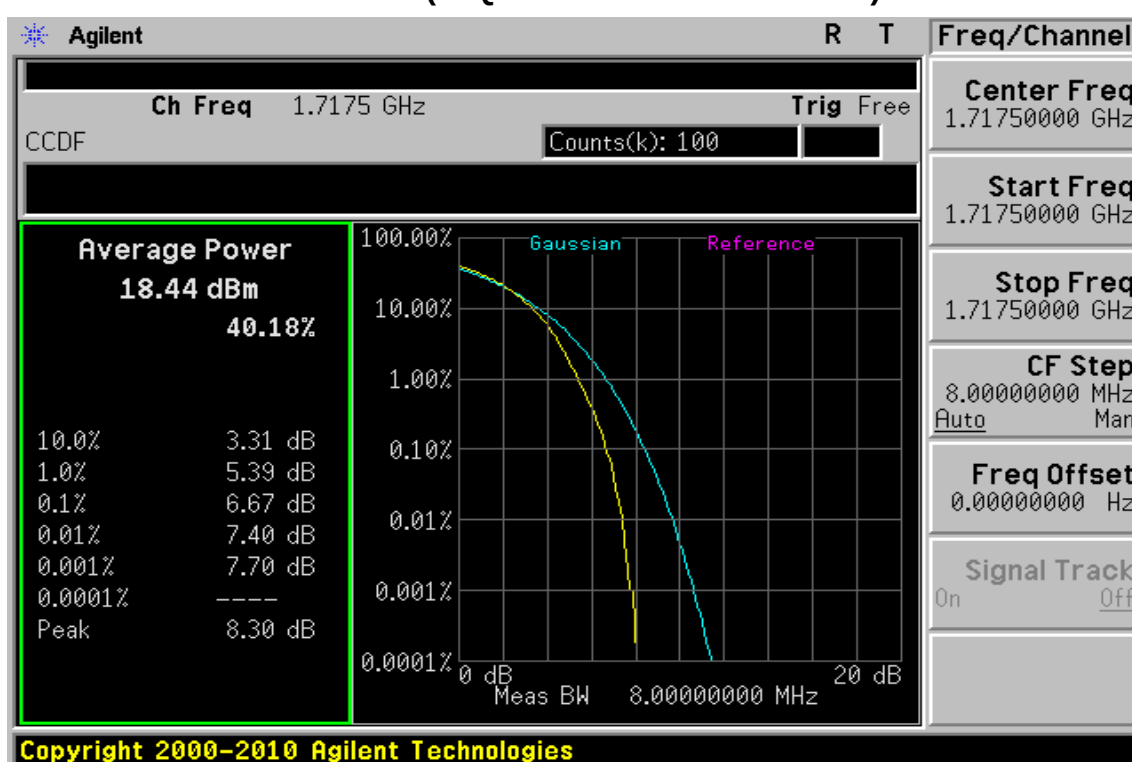
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10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



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15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High



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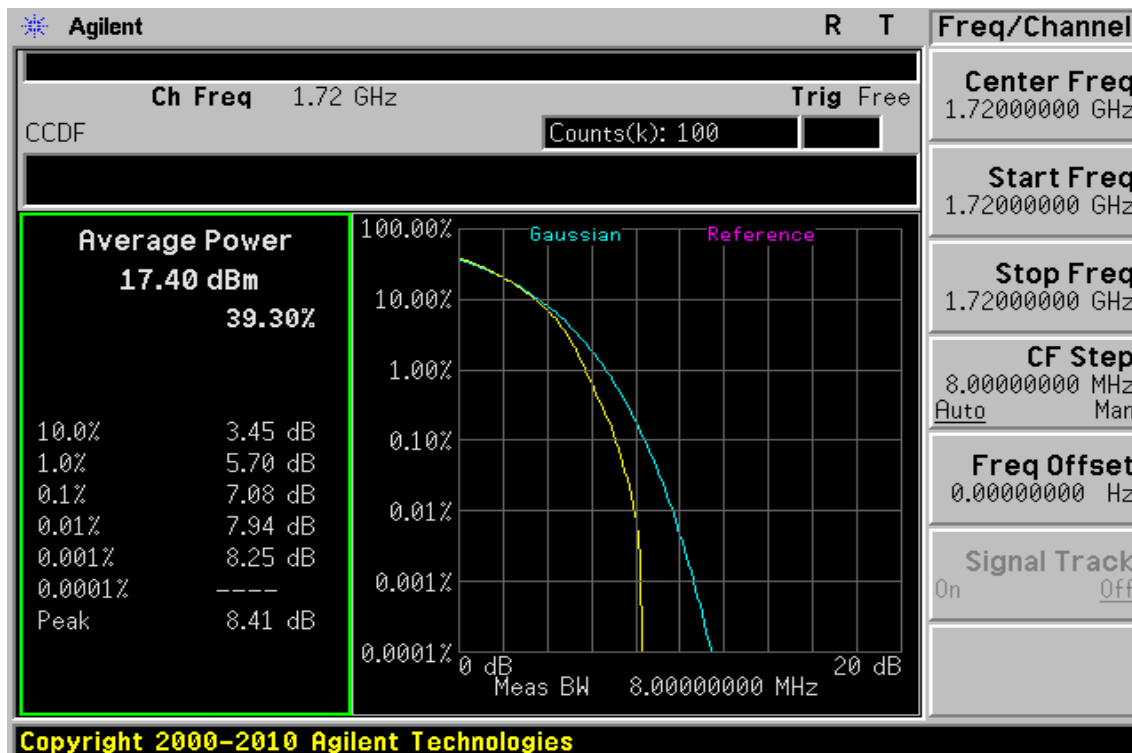
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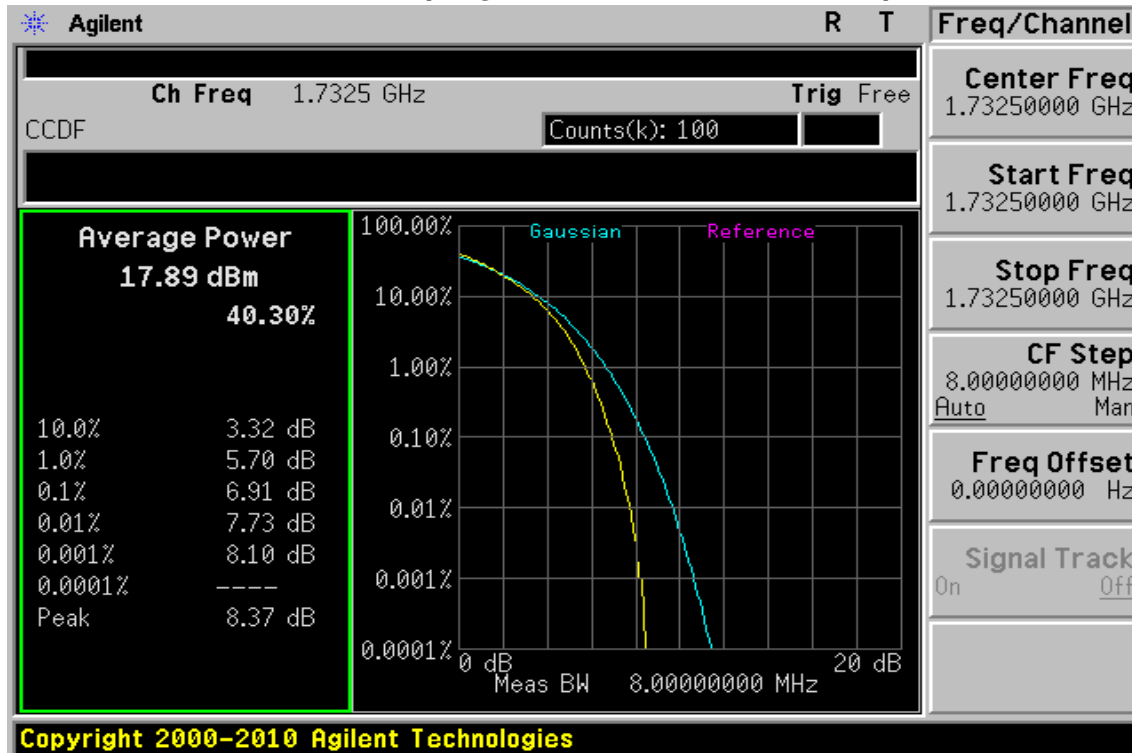
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20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid



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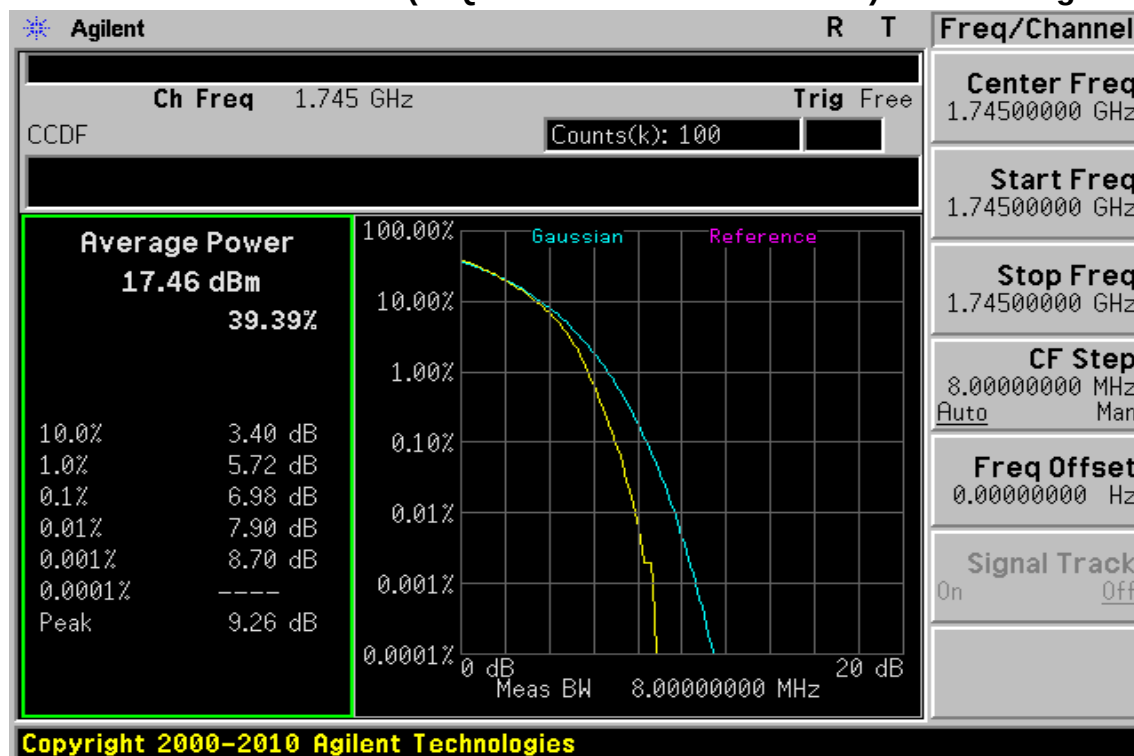
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20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High



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



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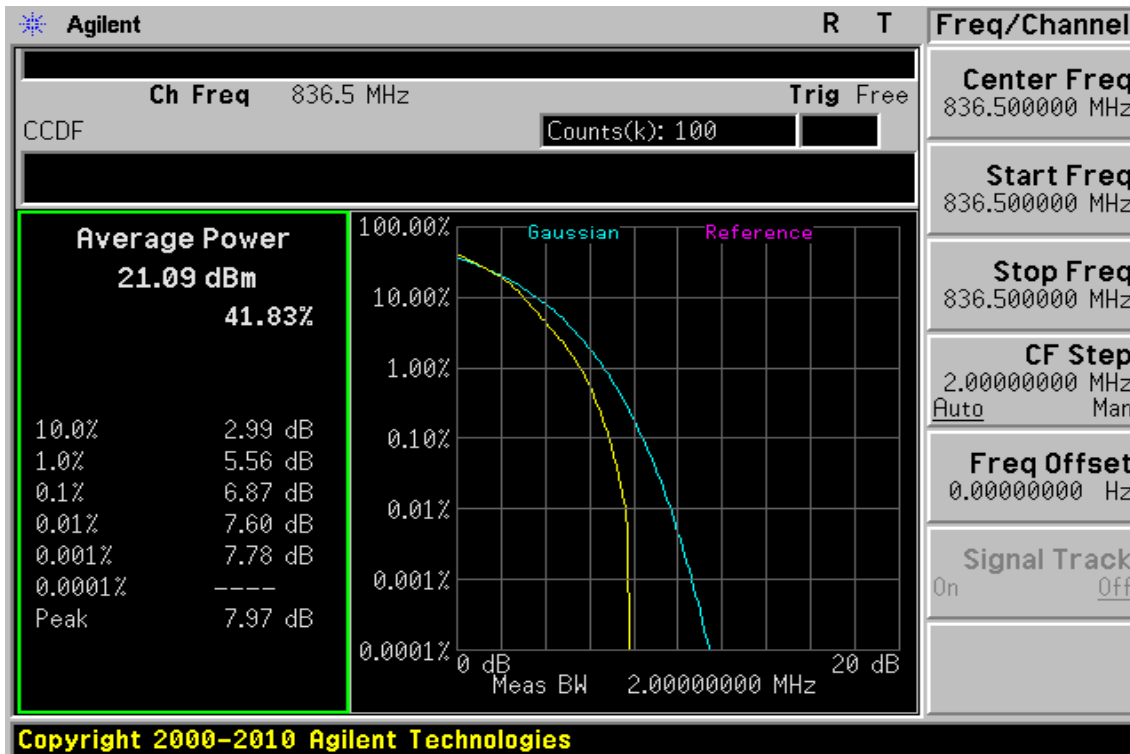
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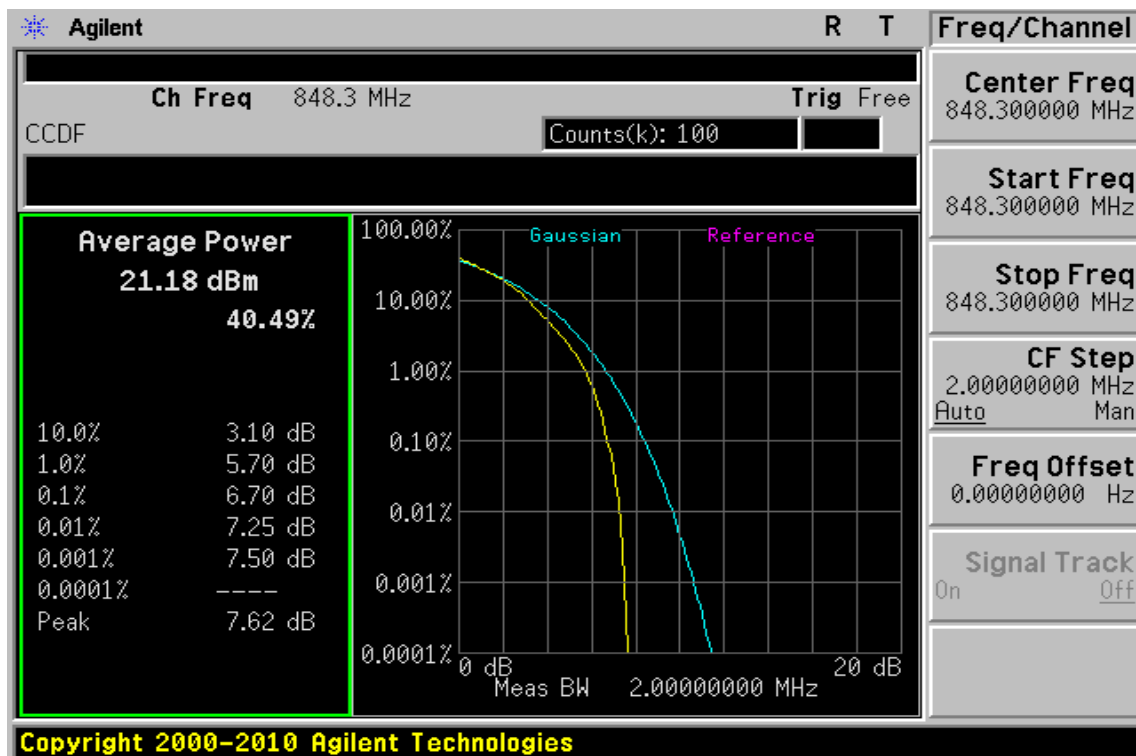
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1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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



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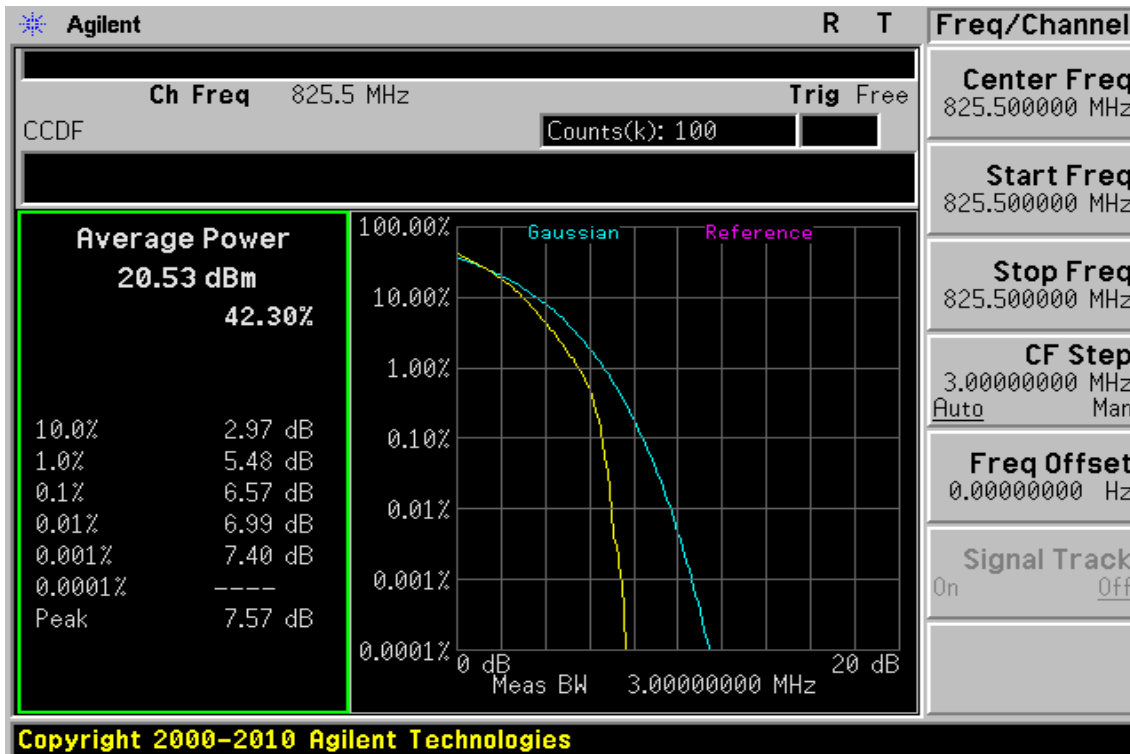
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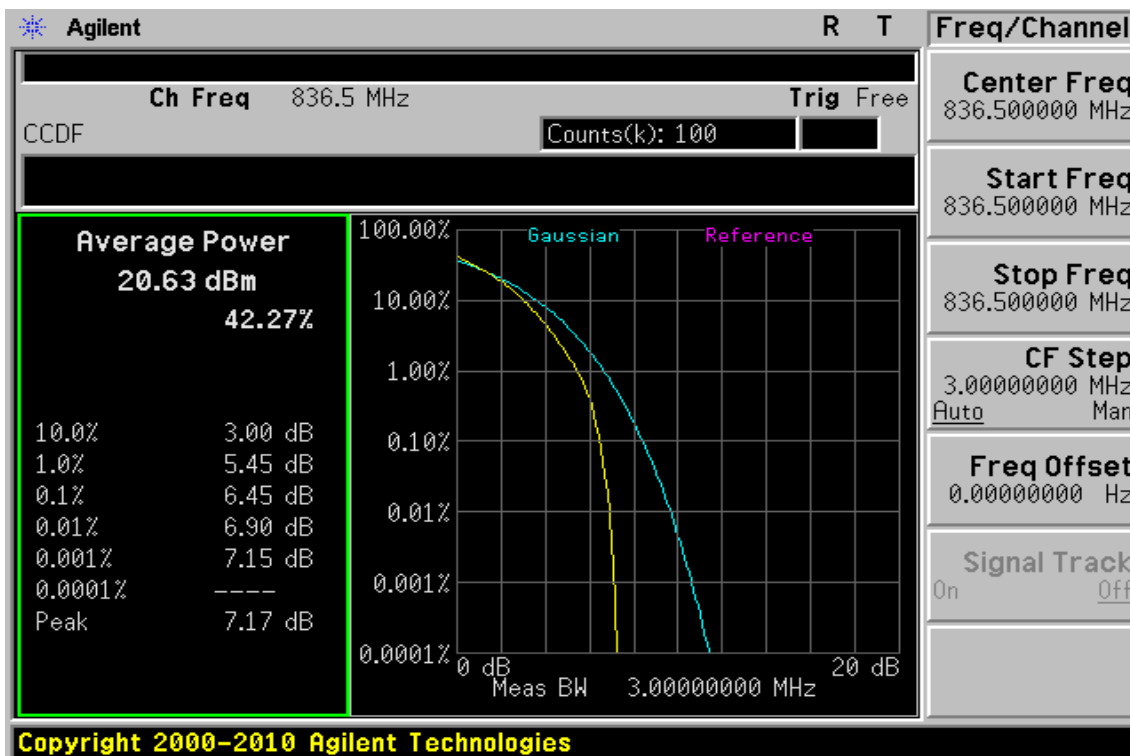
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3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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



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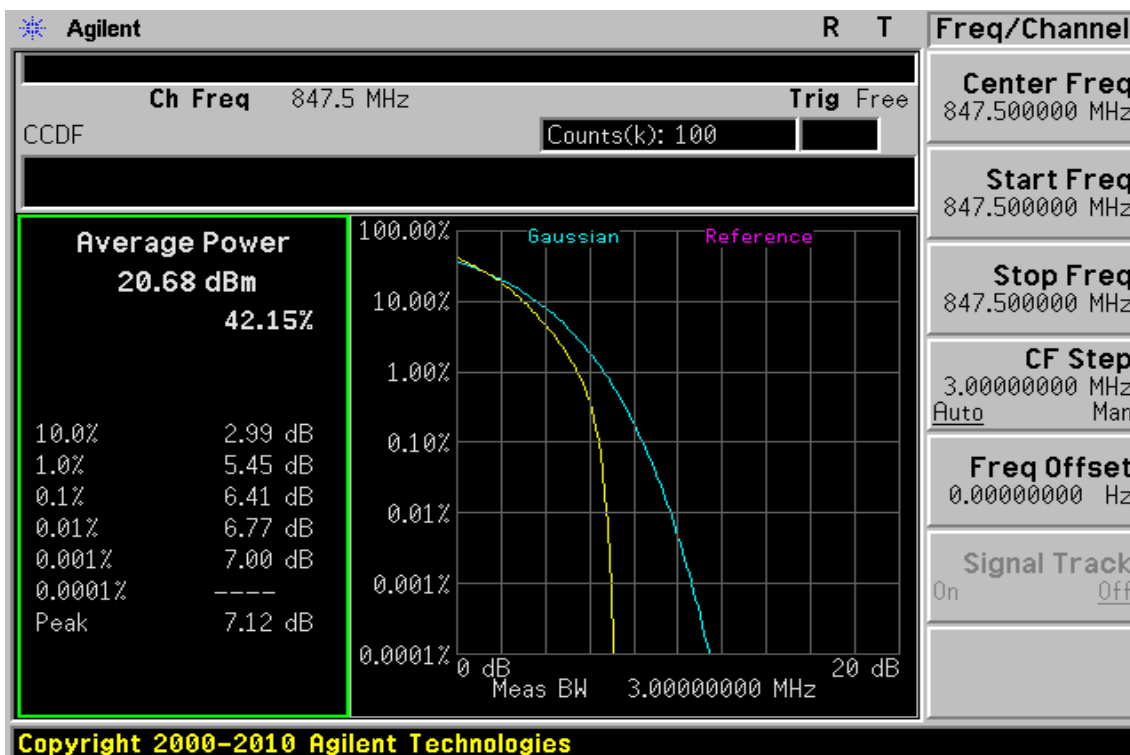
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3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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



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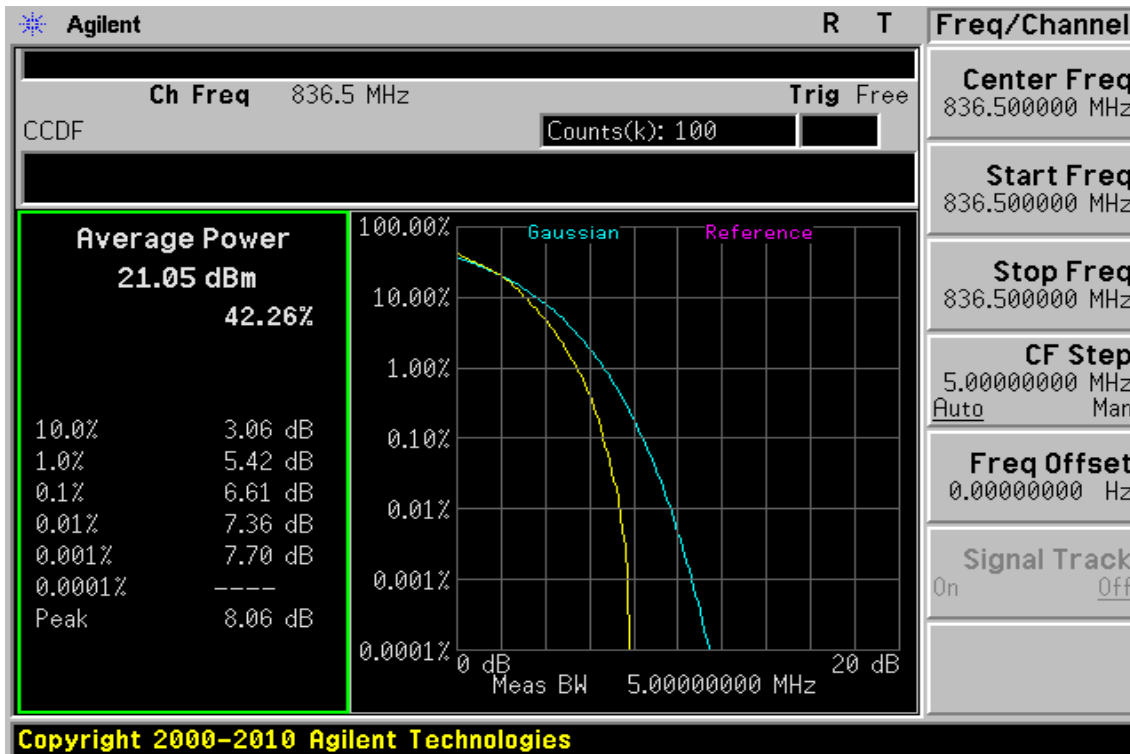
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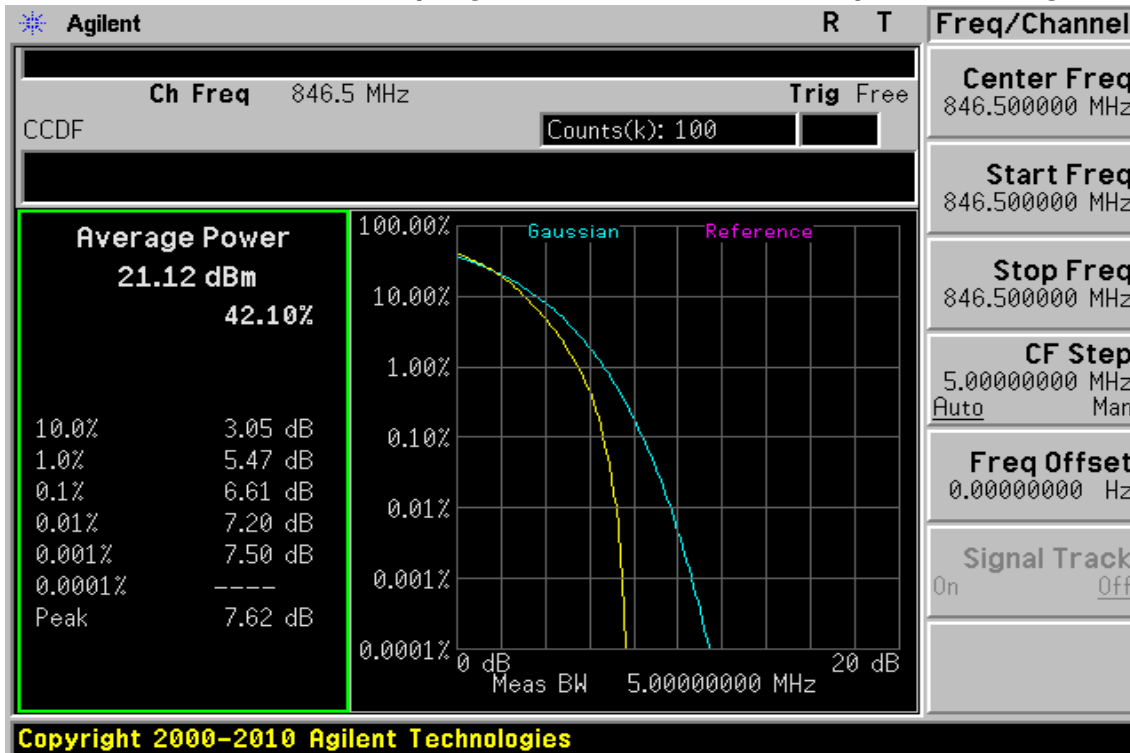
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5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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



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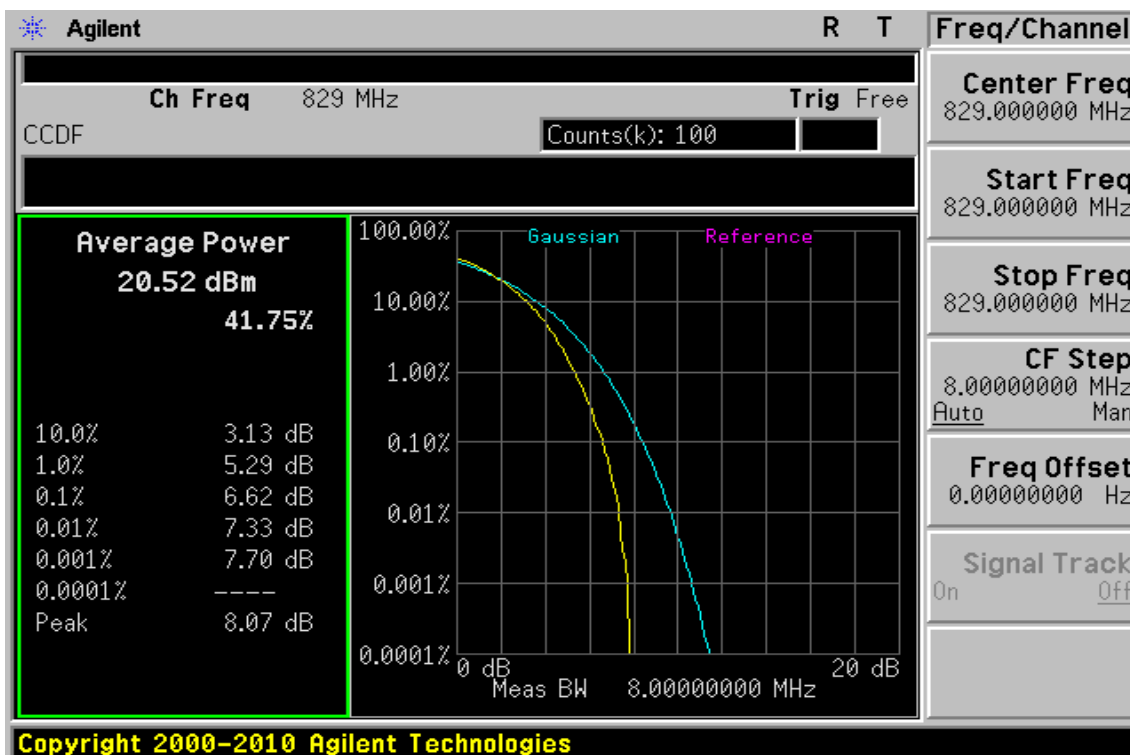
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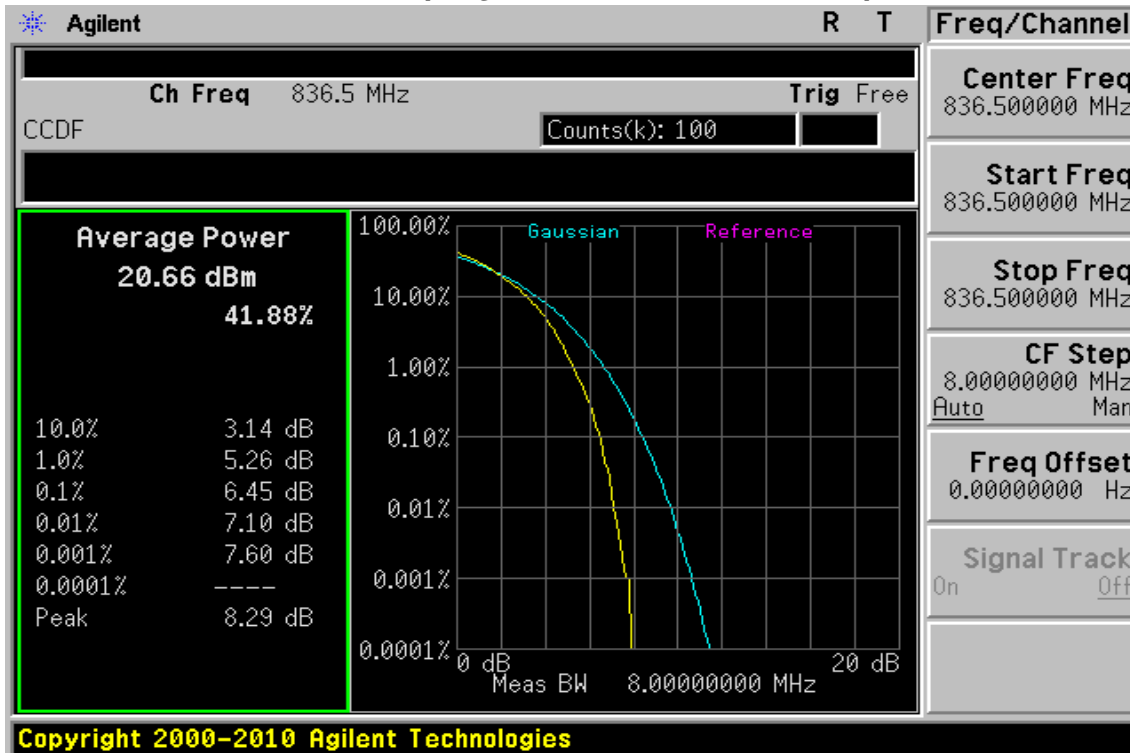
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10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low



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



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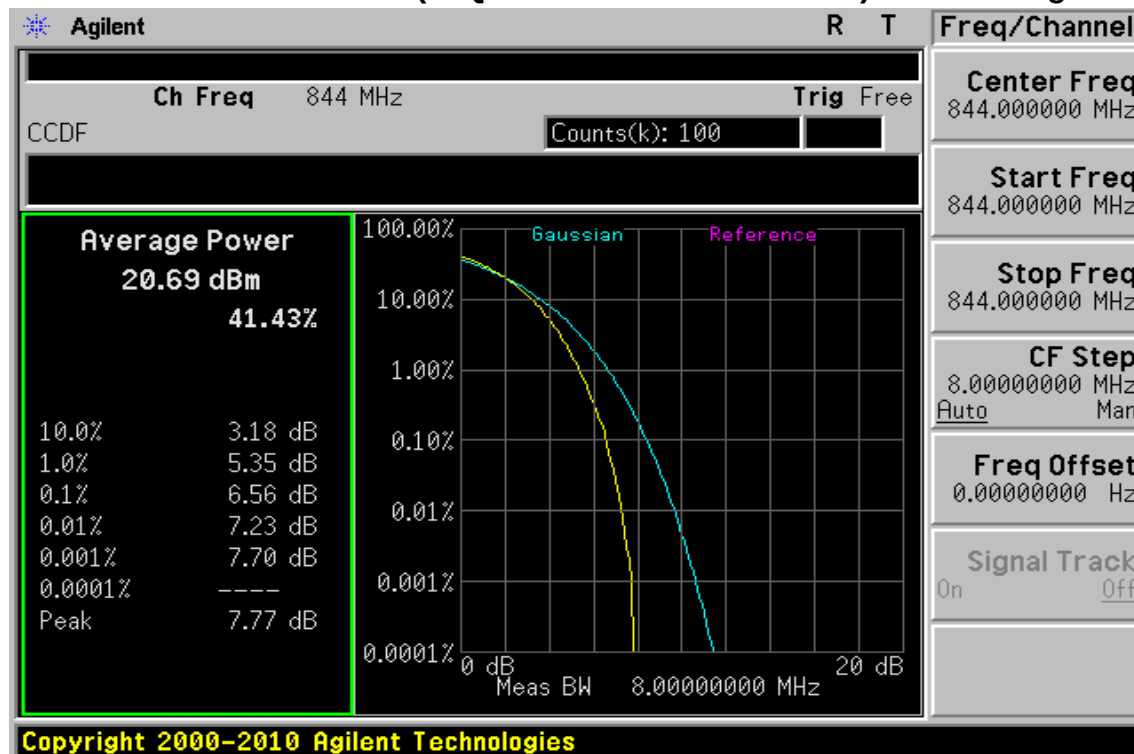
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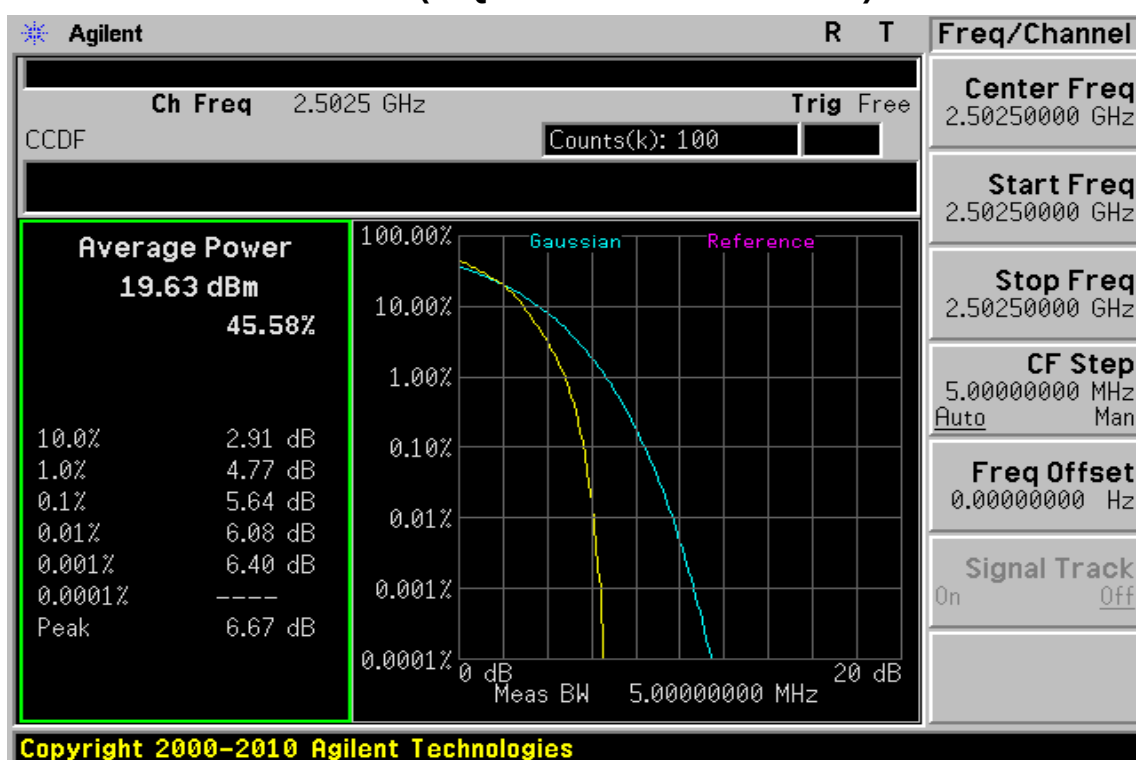
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10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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



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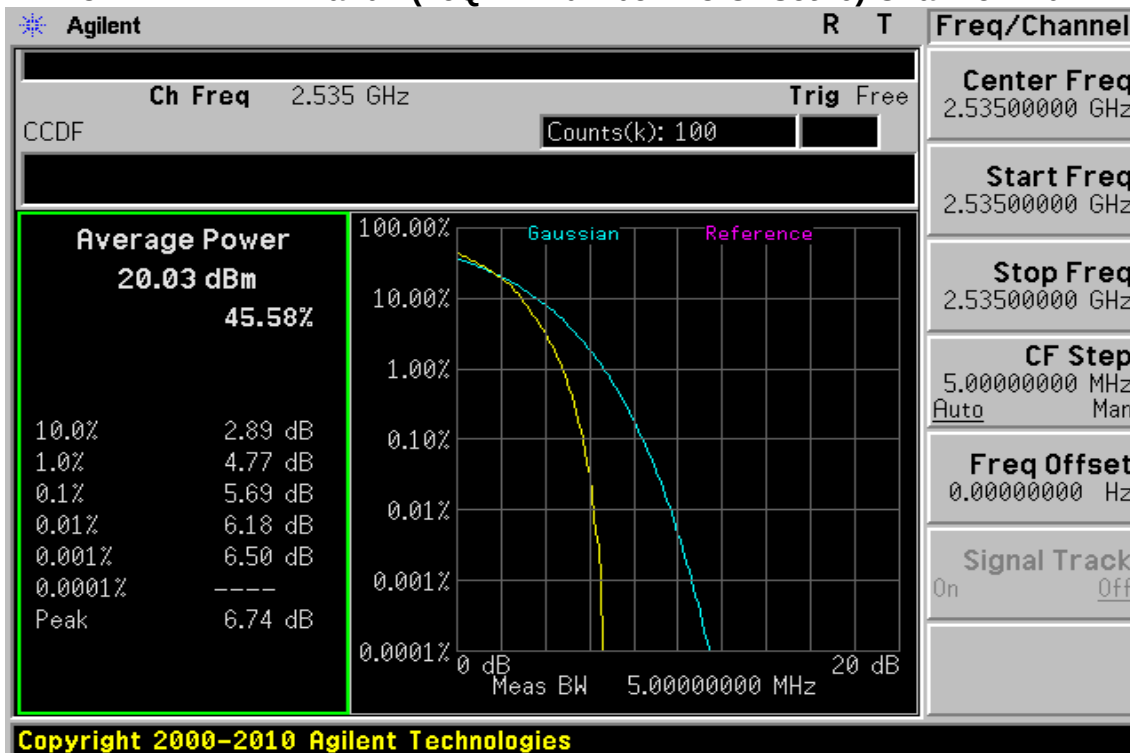
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5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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



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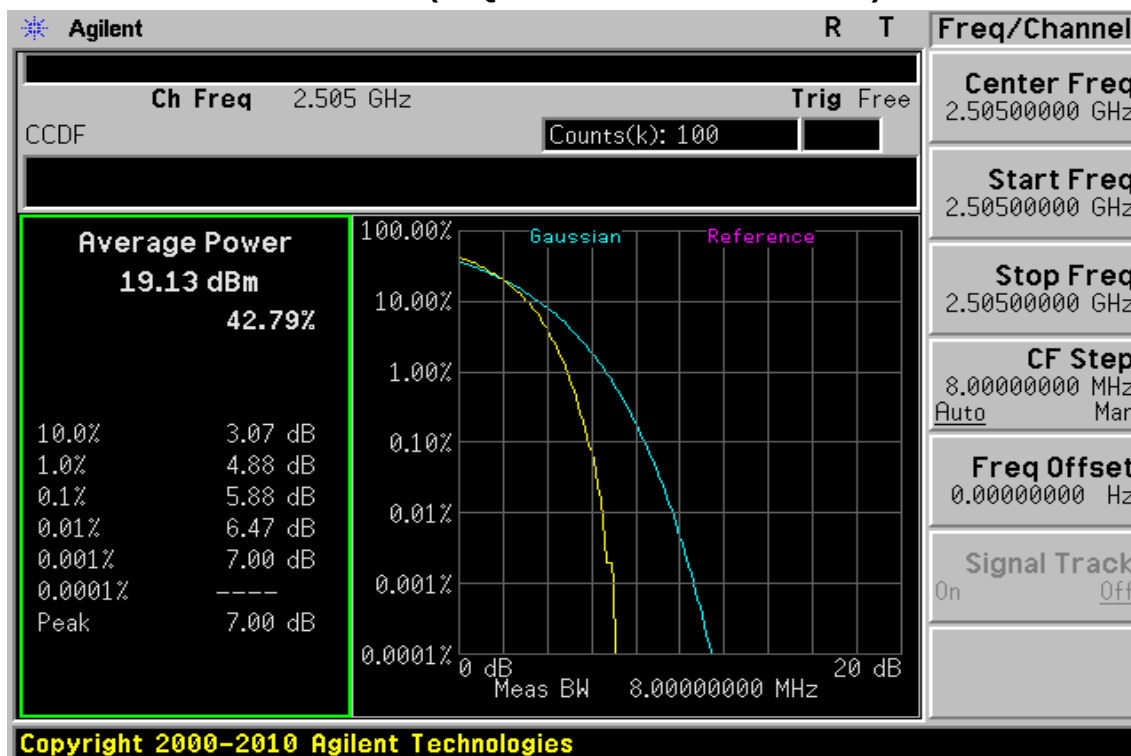
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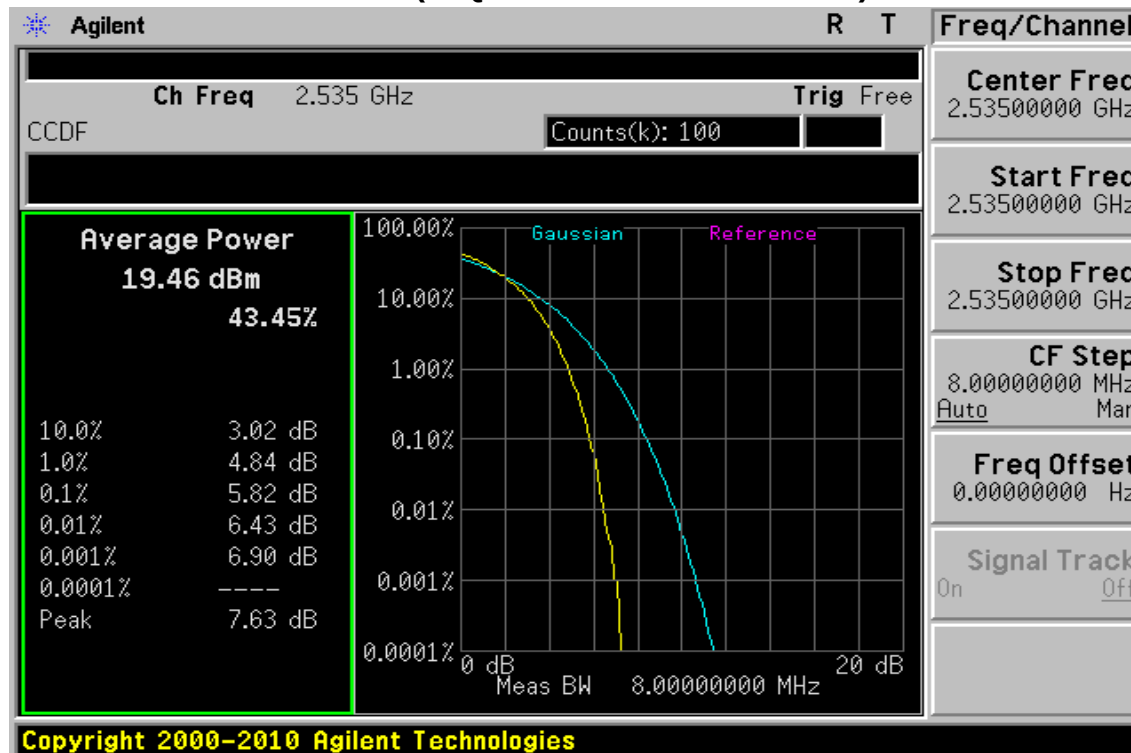
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10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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



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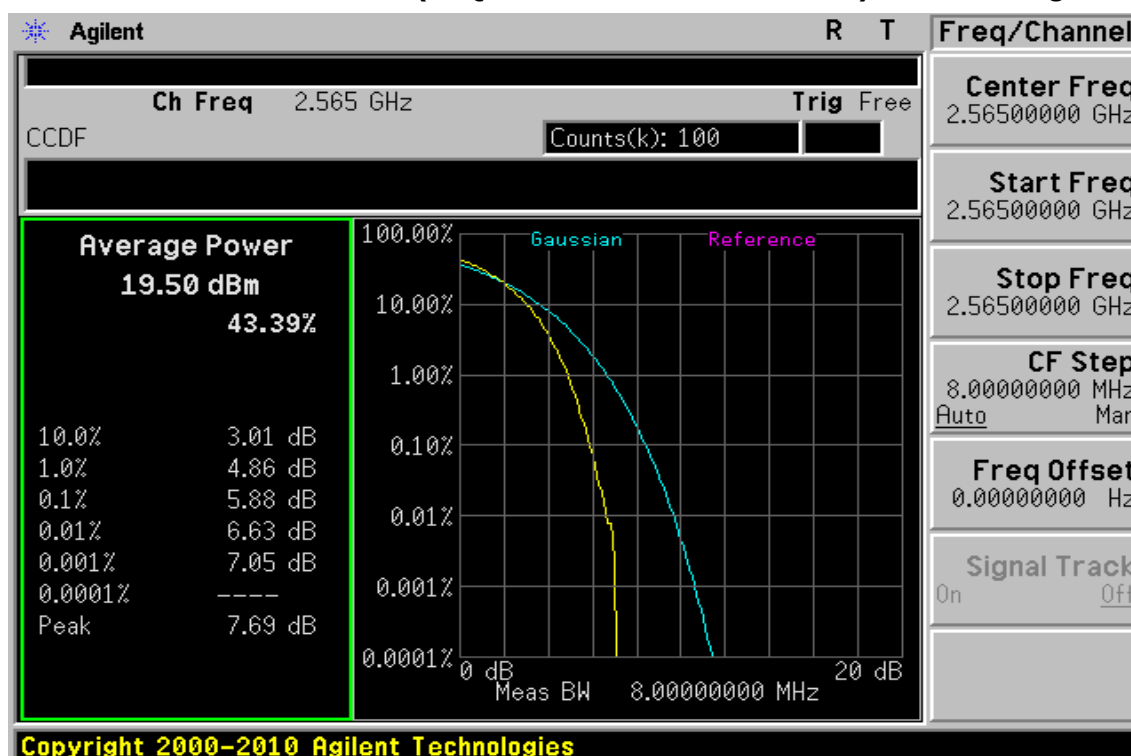
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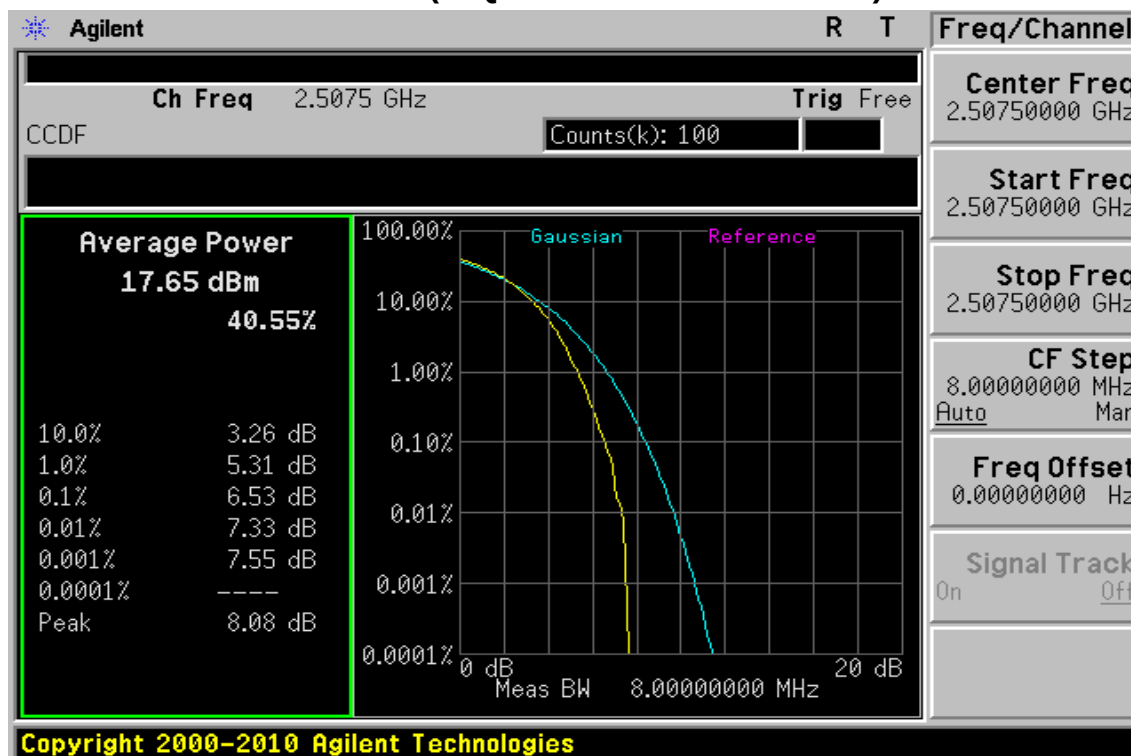
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10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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



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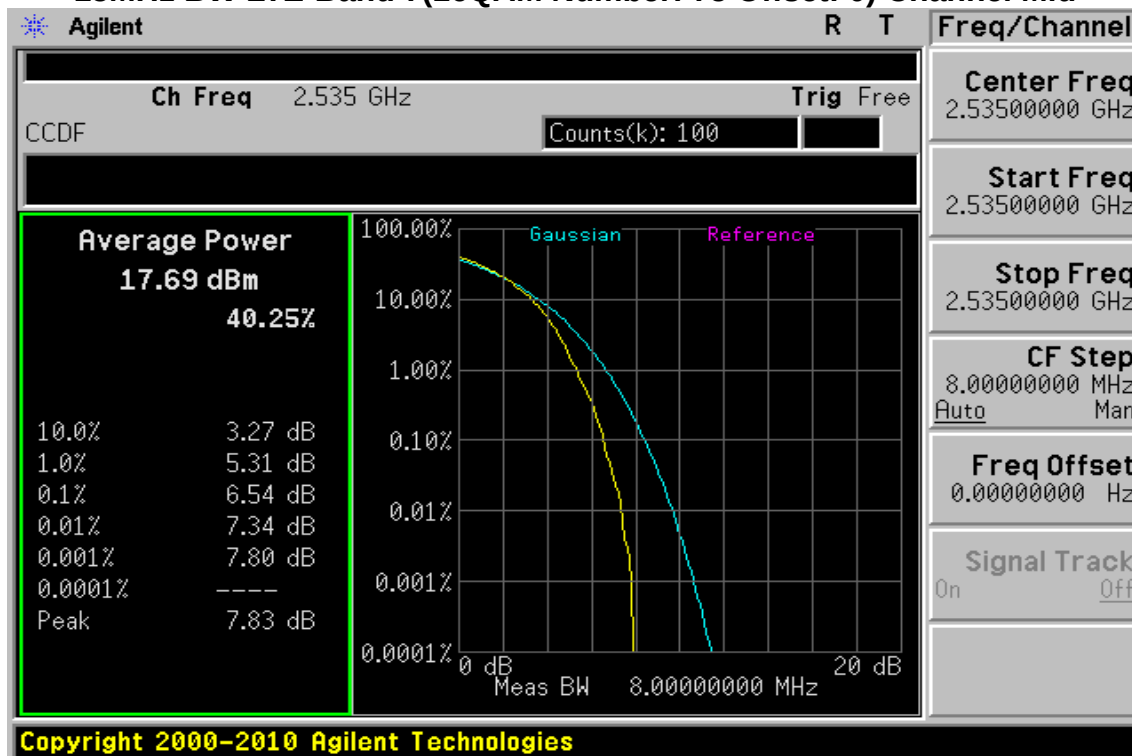
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15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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



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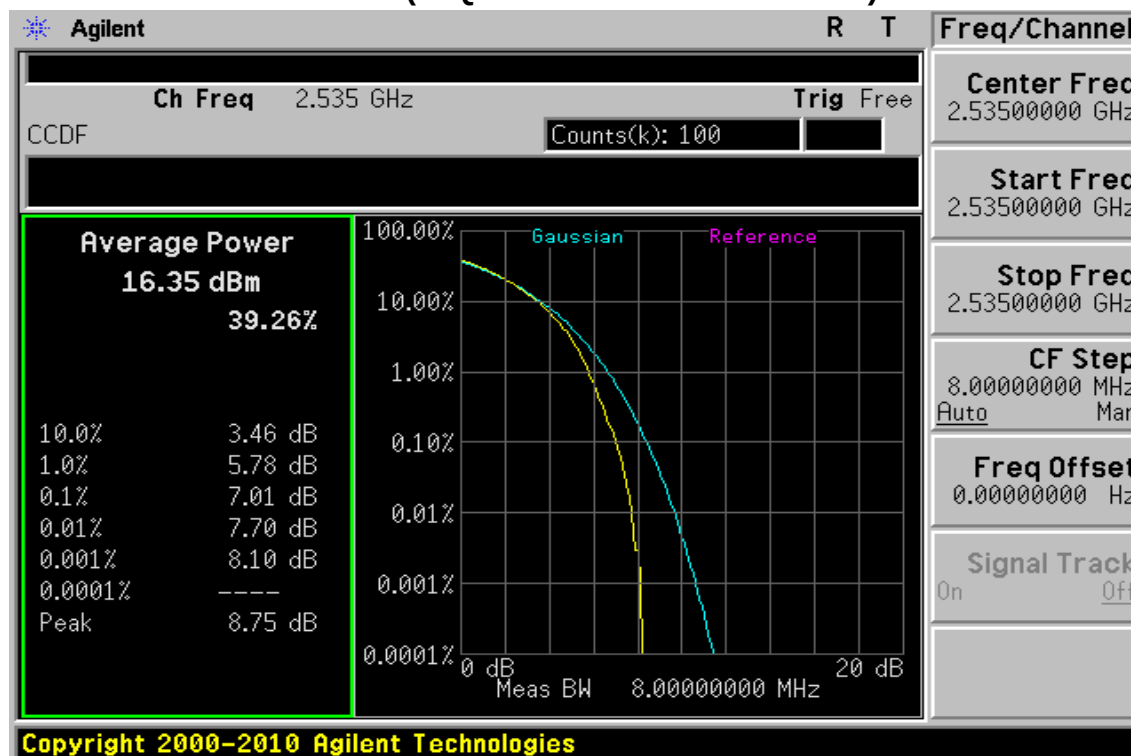
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20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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



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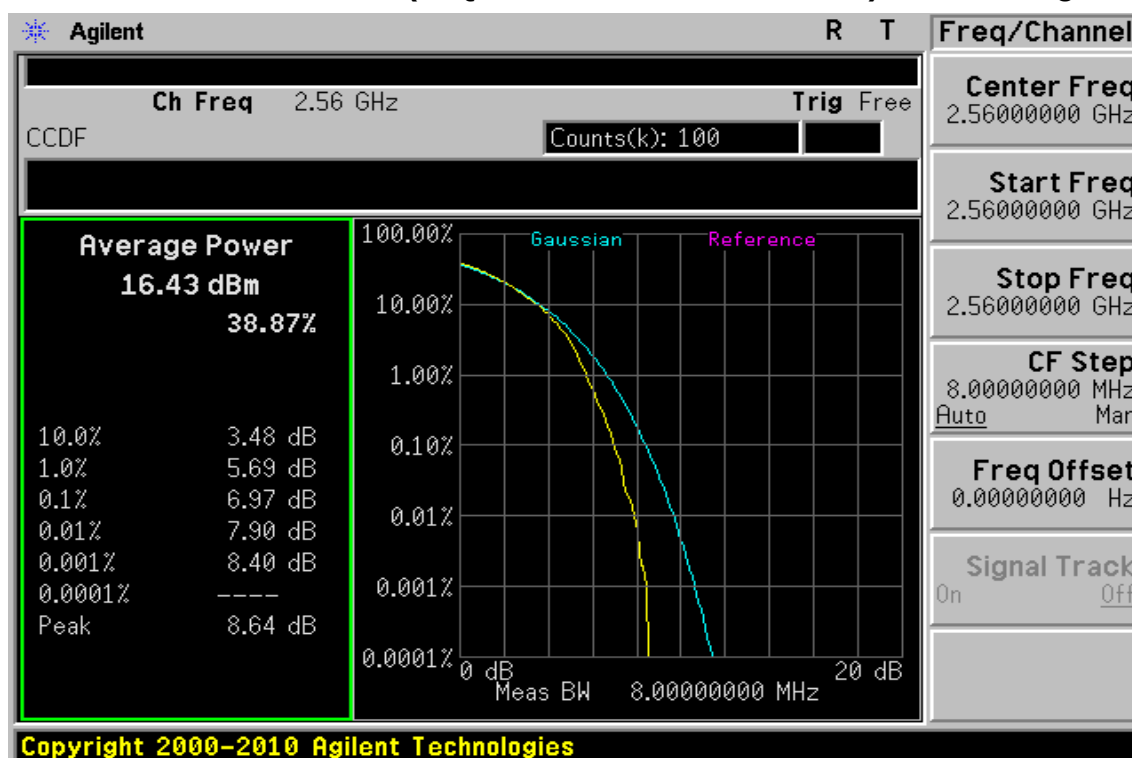
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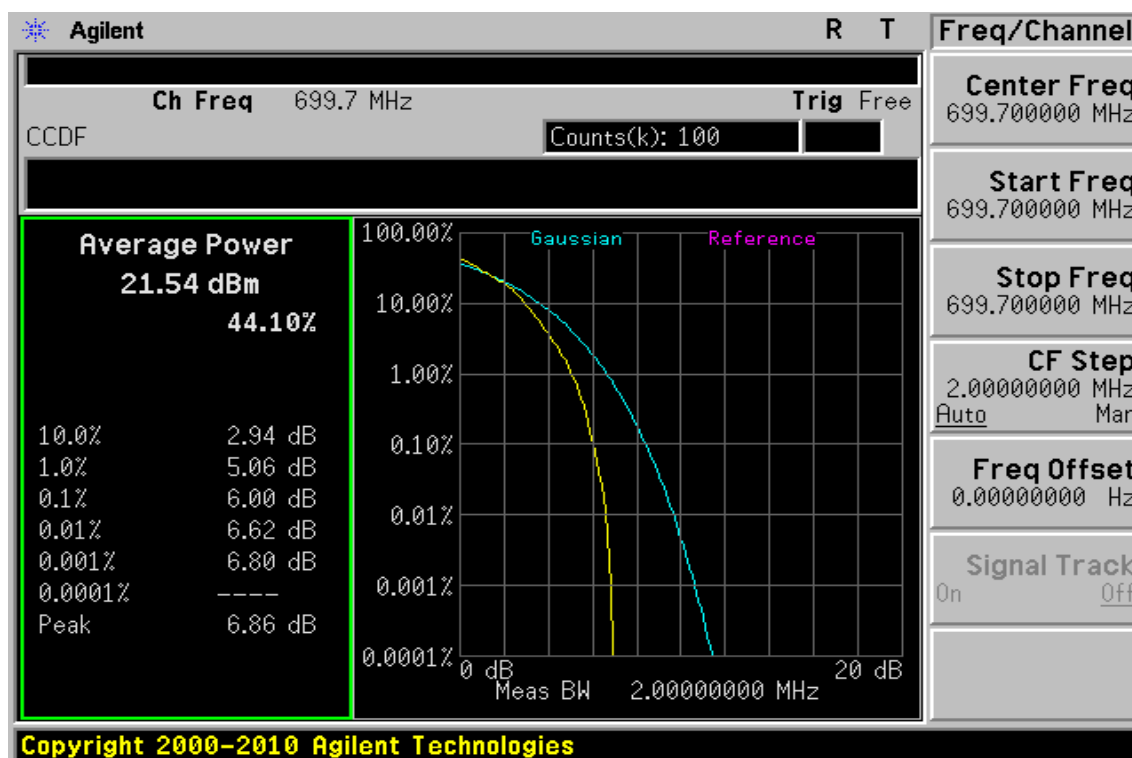
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20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Low



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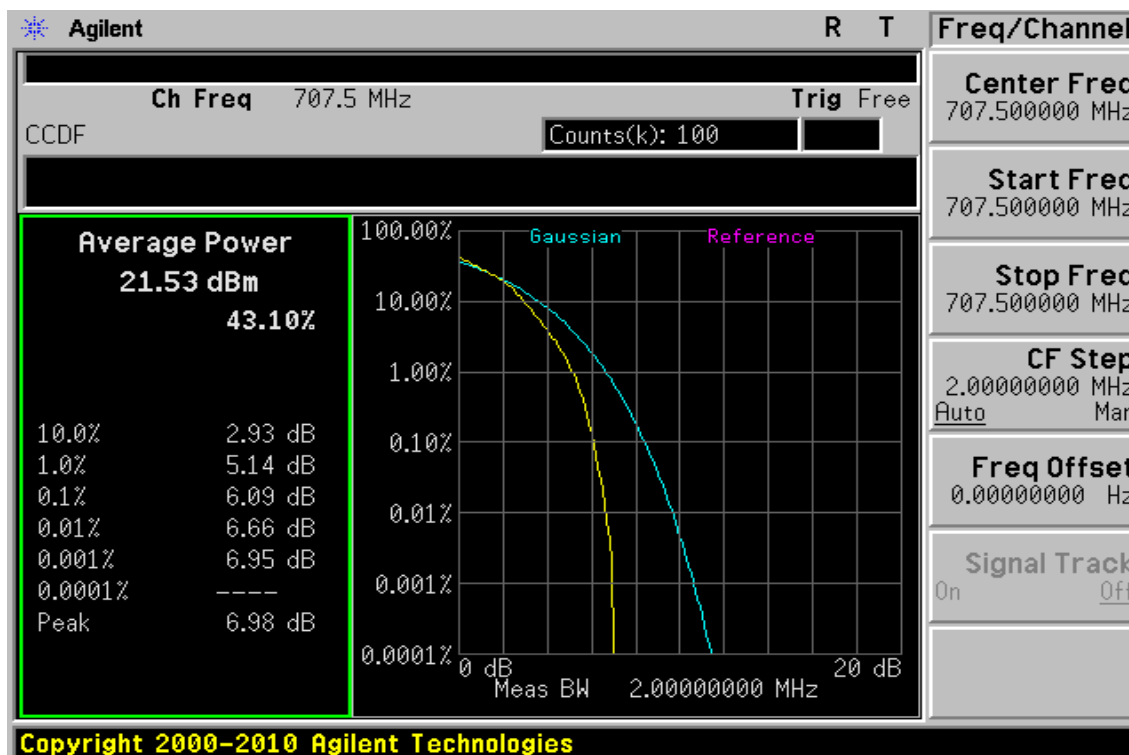
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1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 12(16QAM Number: 6 Offset: 0) Channel High



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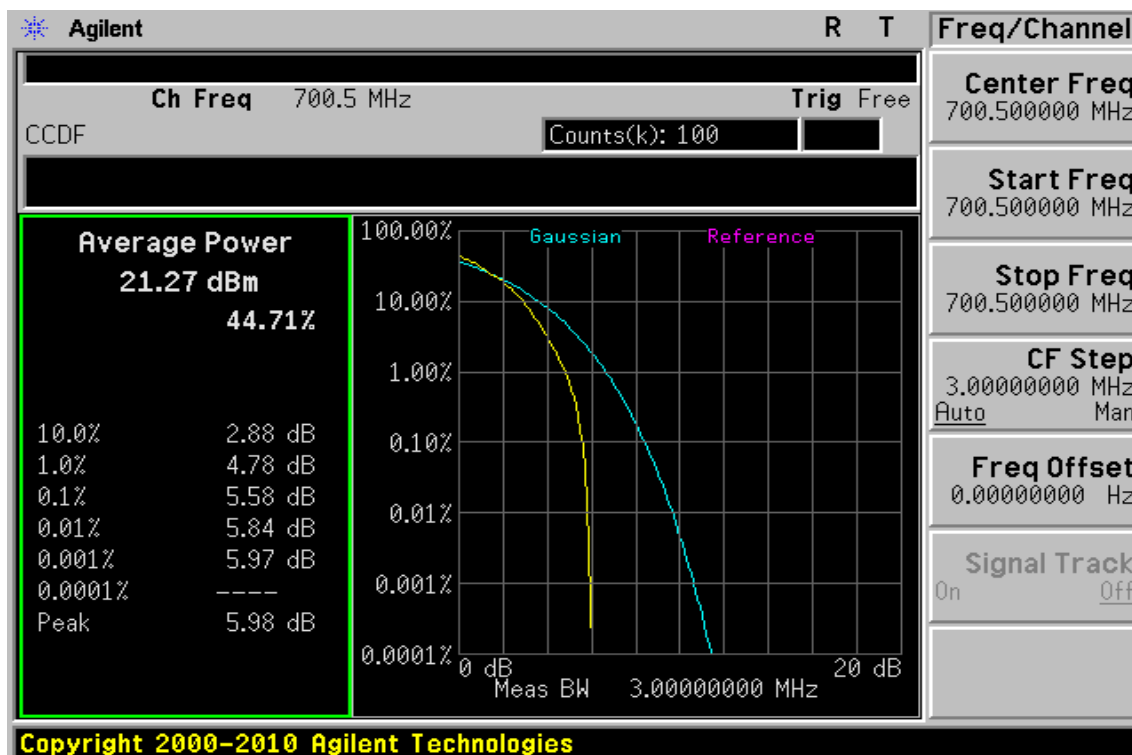
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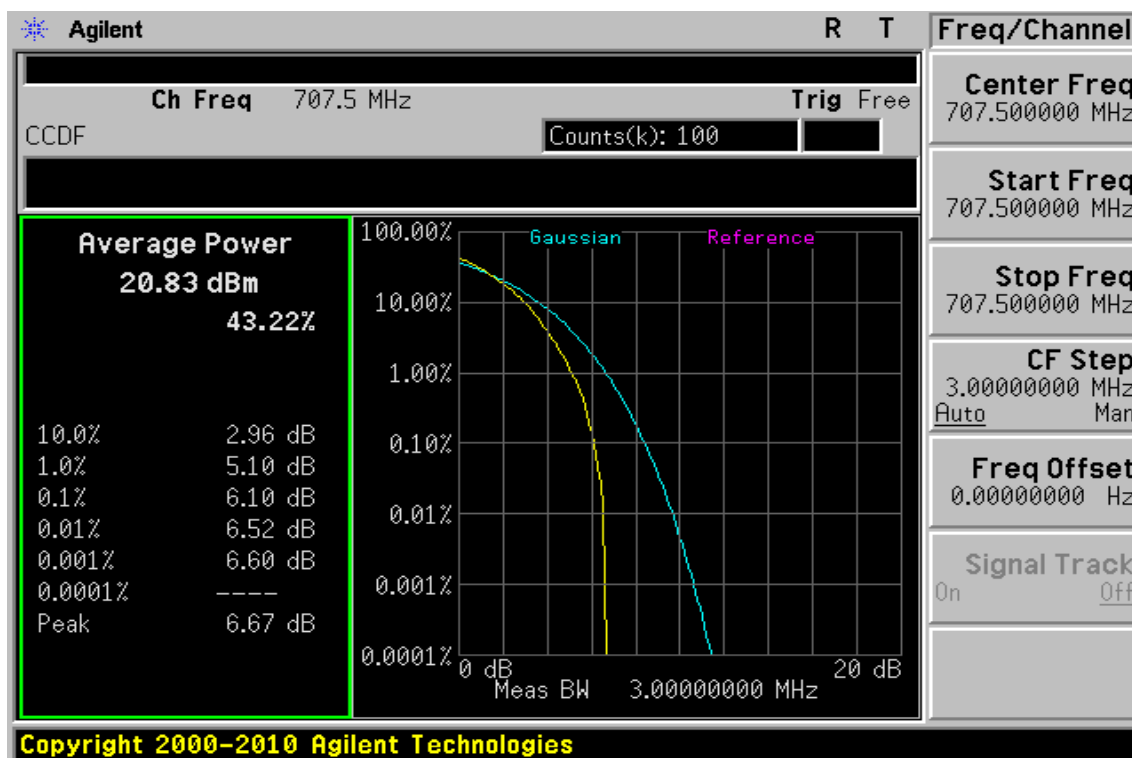
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3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel Mid



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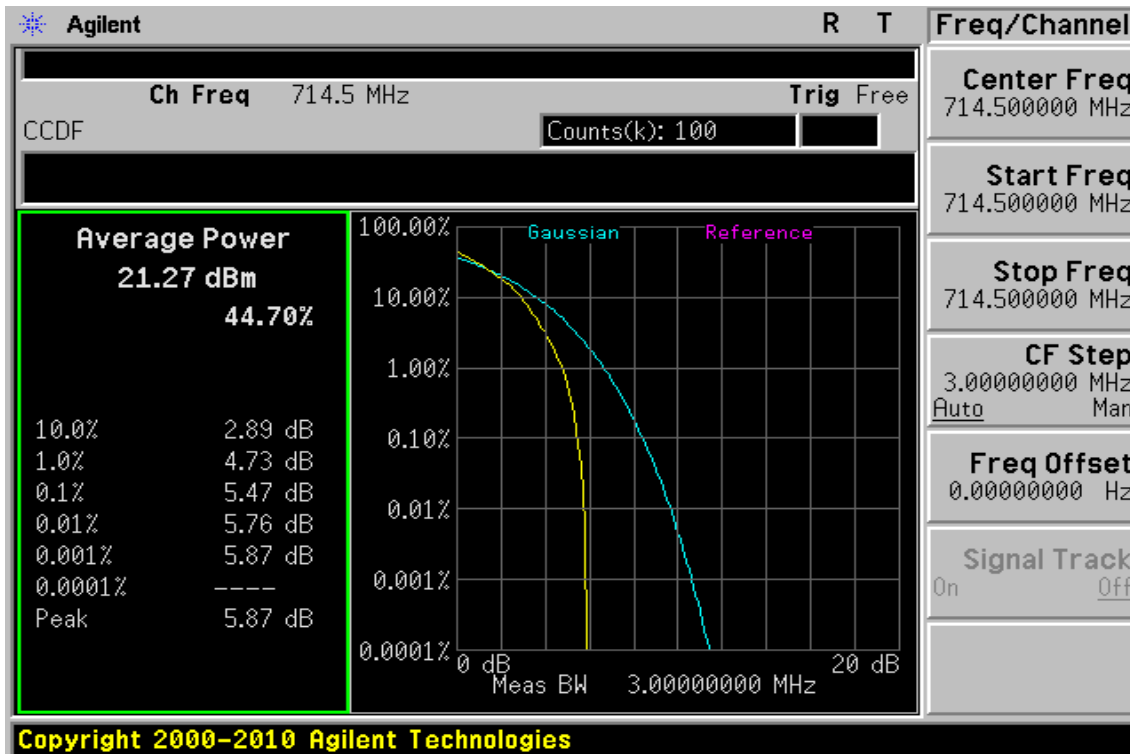
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3MHz BW LTE-Band 12(16QAM Number: 15 Offset: 0) Channel High



5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Low



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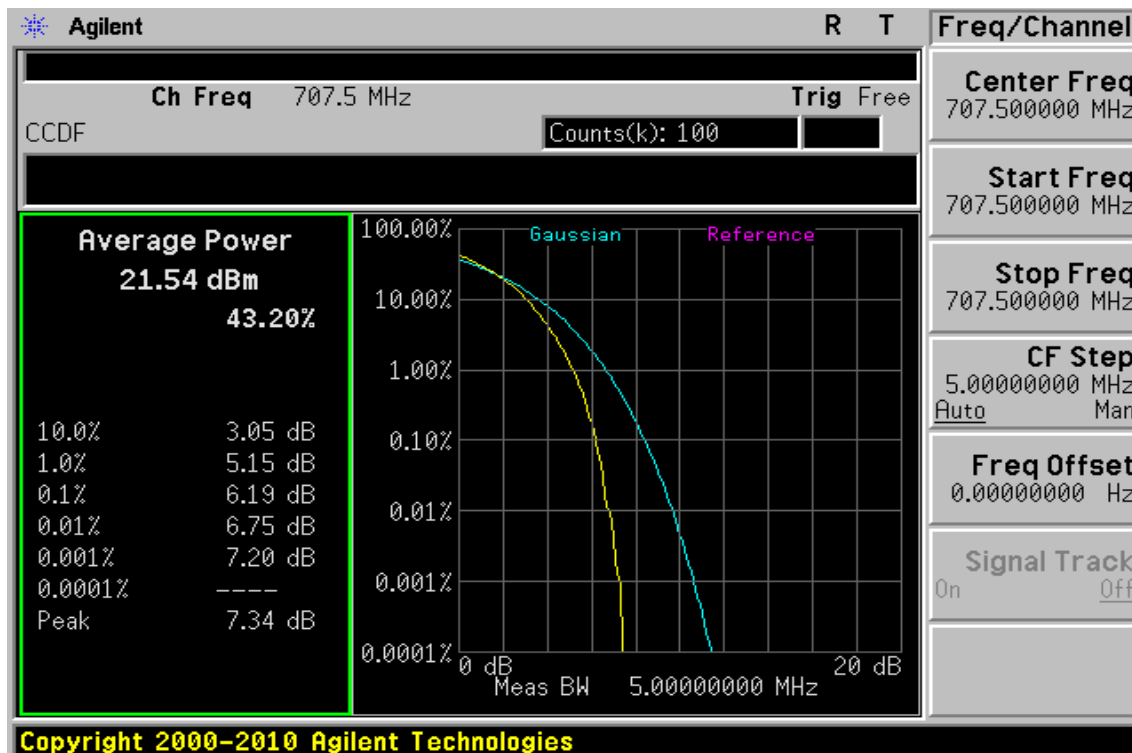
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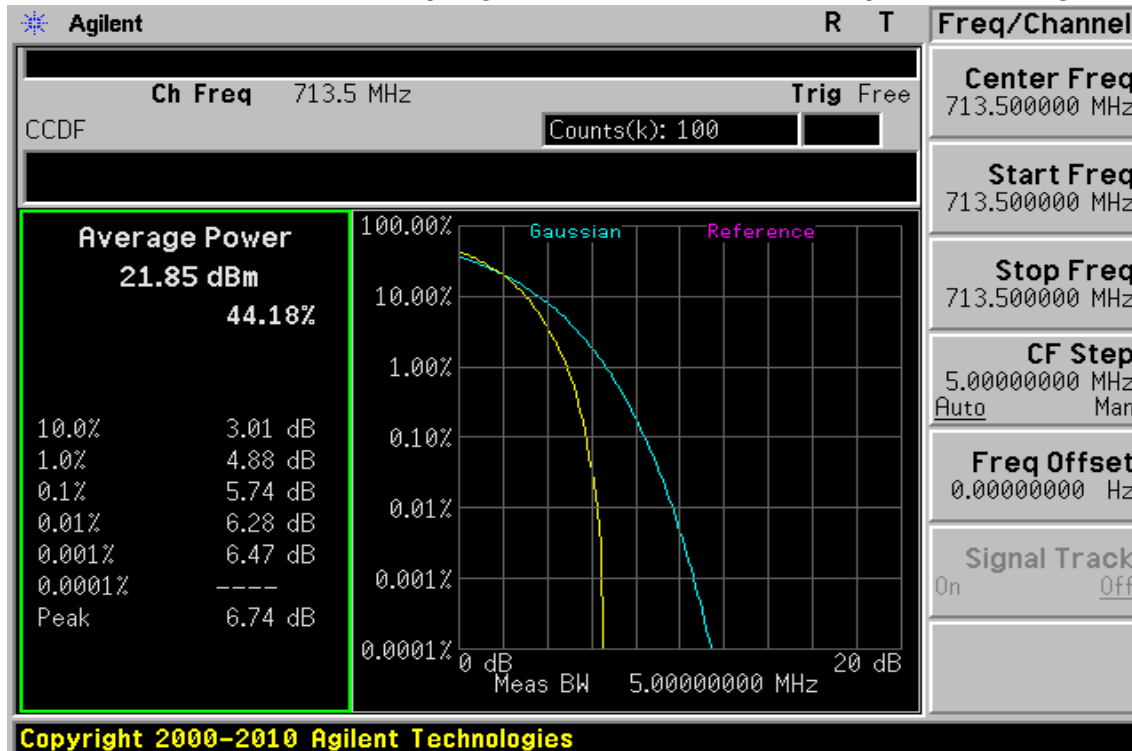
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5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 12(16QAM Number: 25 Offset: 0) Channel High



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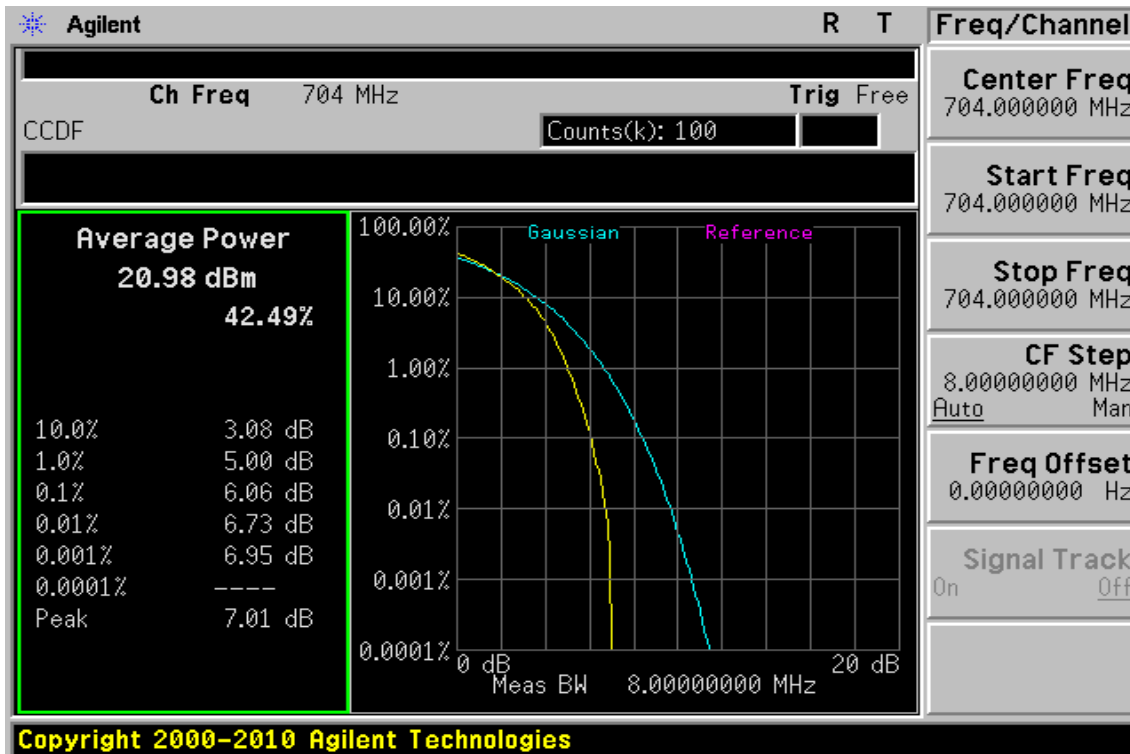
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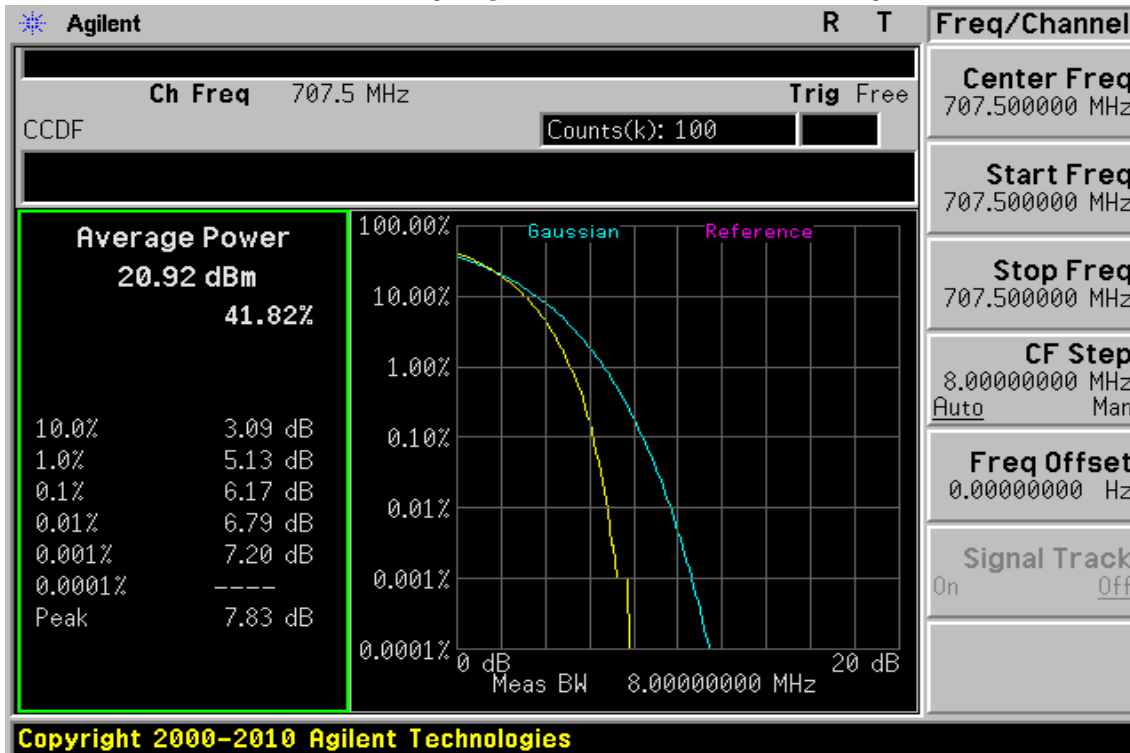
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10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel Mid



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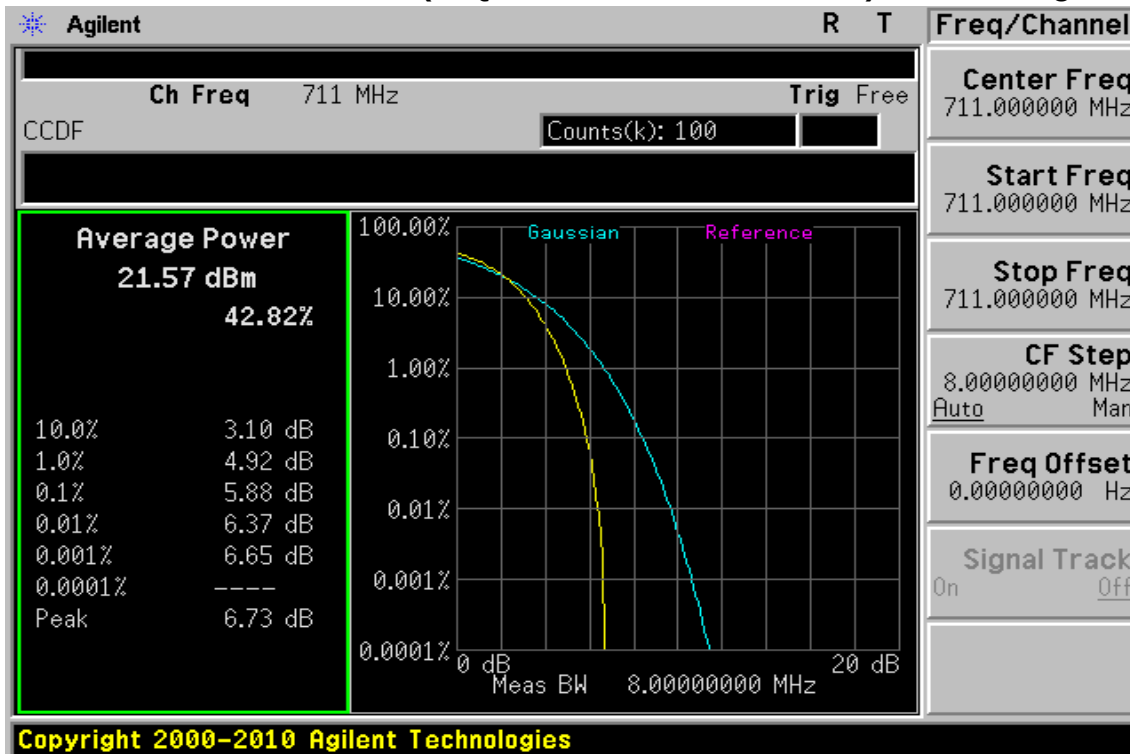
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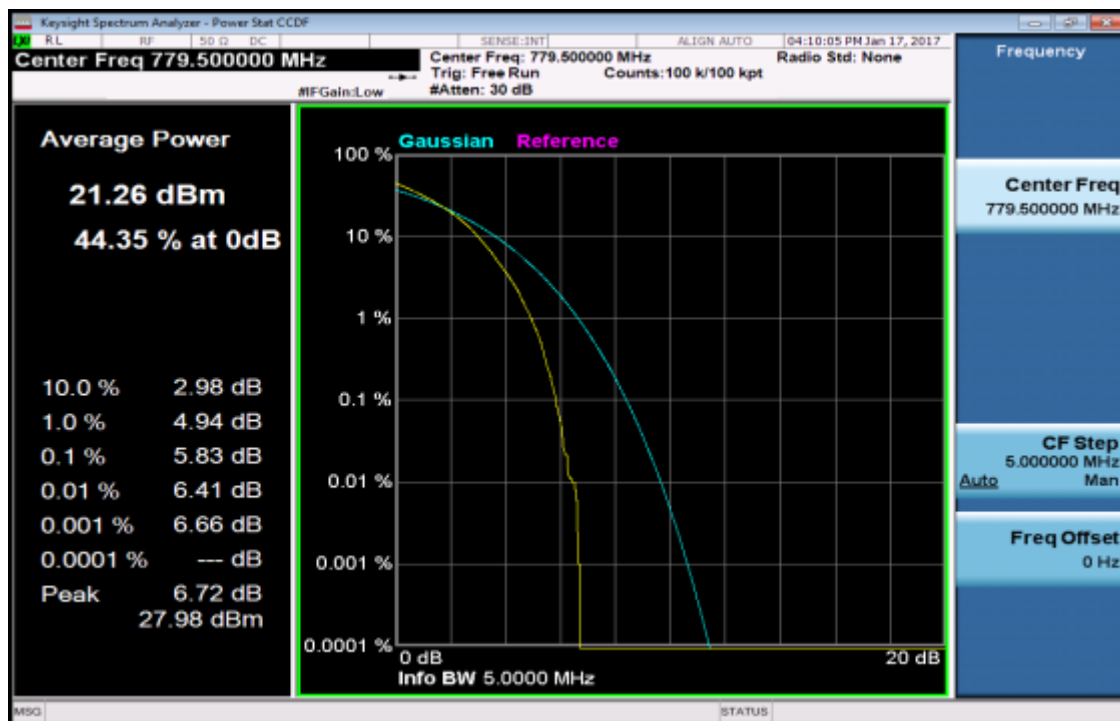
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10MHz BW LTE-Band 12(16QAM Number: 50 Offset: 0) Channel High



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



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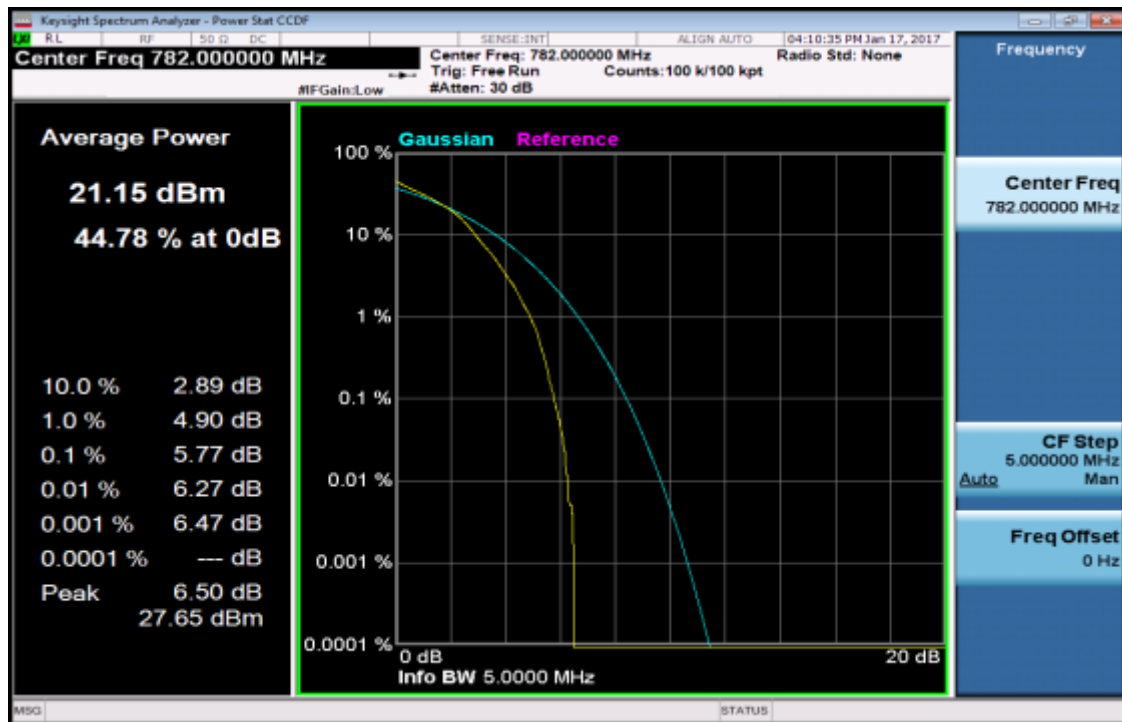
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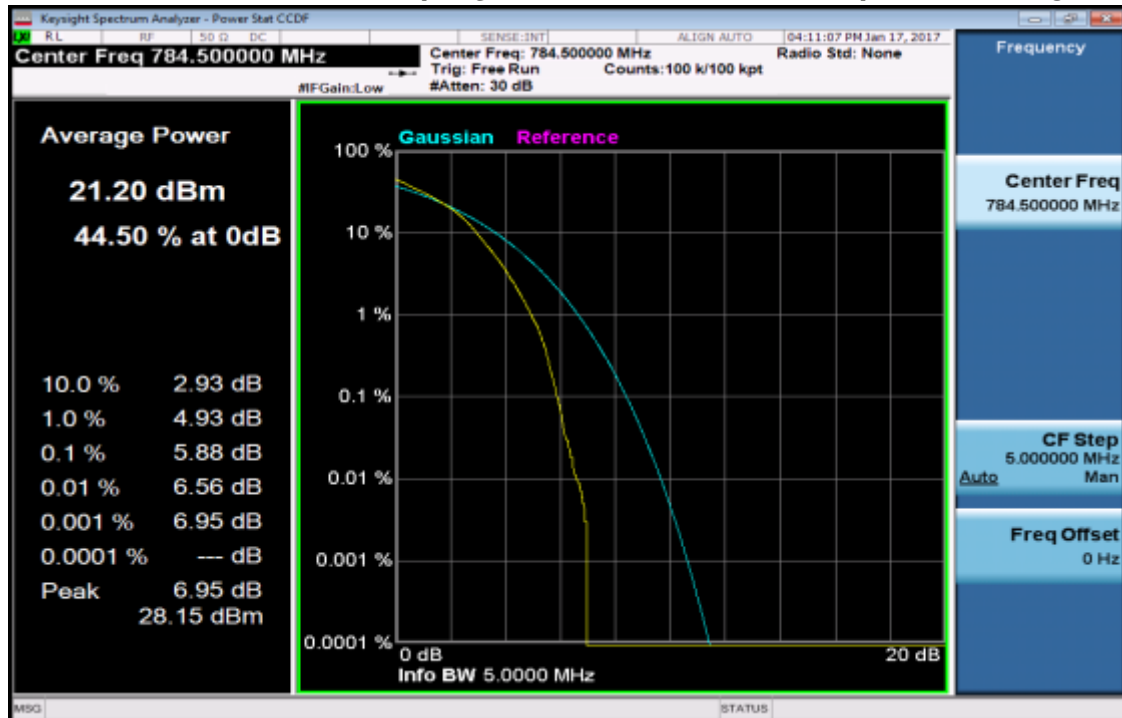
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5MHz BW LTE-Band 13(16QAM Number: 25 Offset: 0) Channel Mid



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



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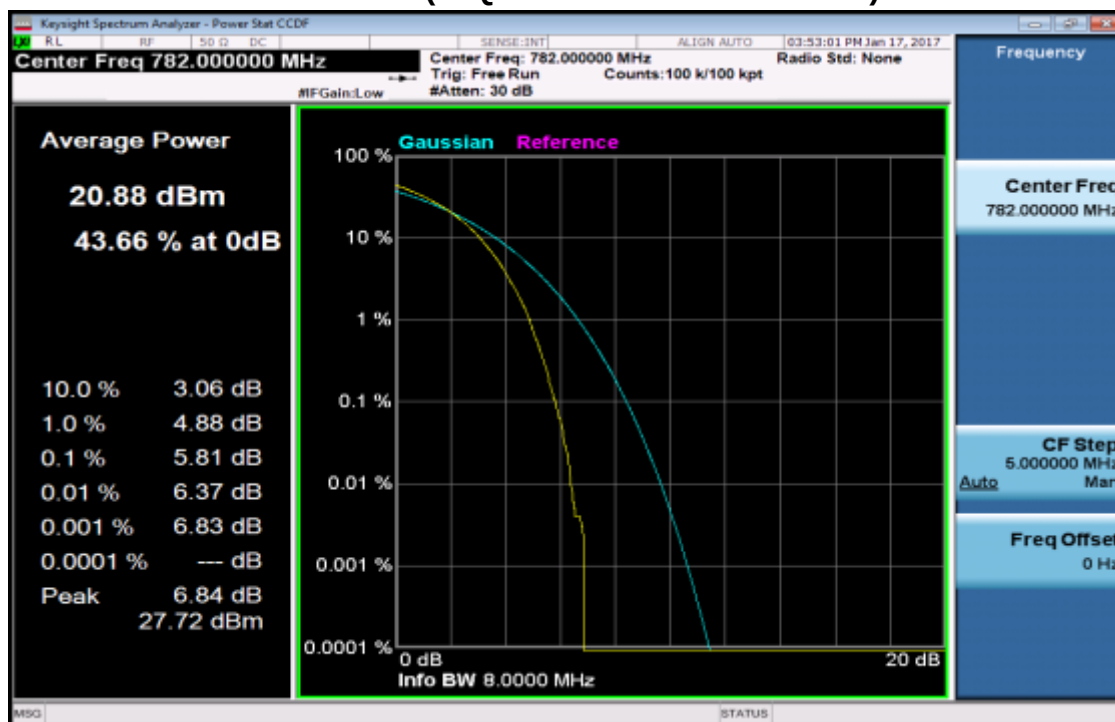
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f (886-2) 2298-0488

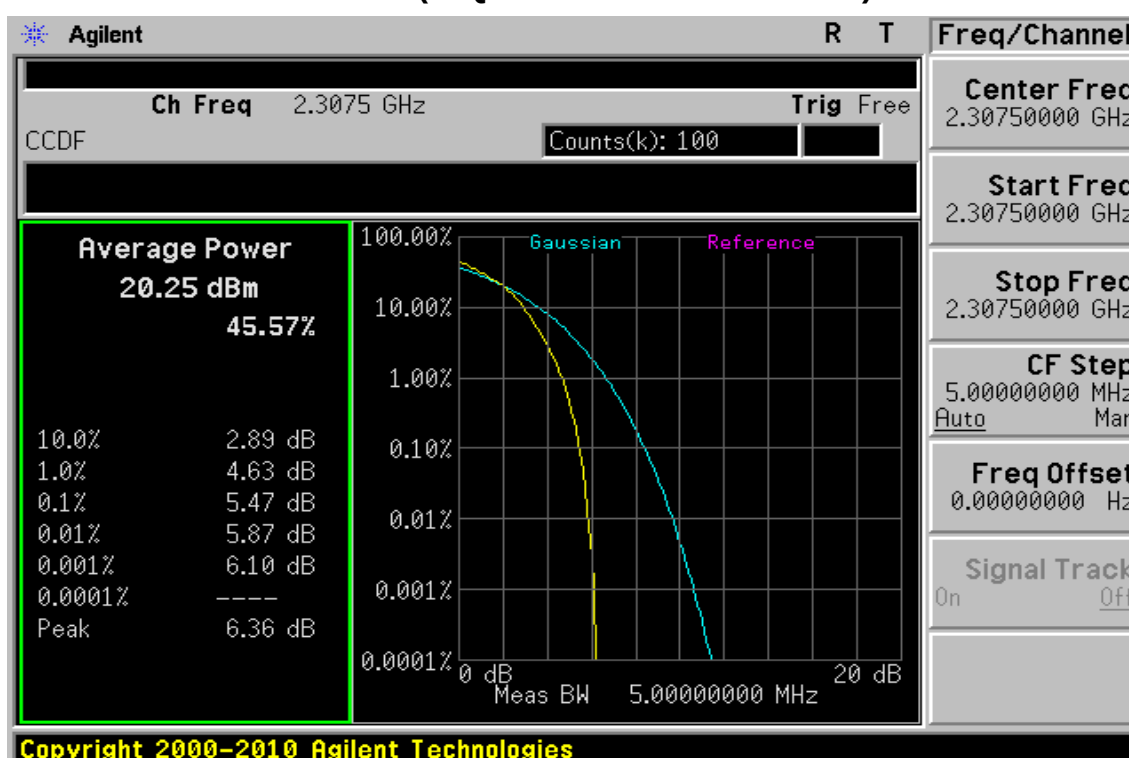
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10MHz BW LTE-Band 13(16QAM Number: 50 Offset: 0) Channel Mid



5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel Low



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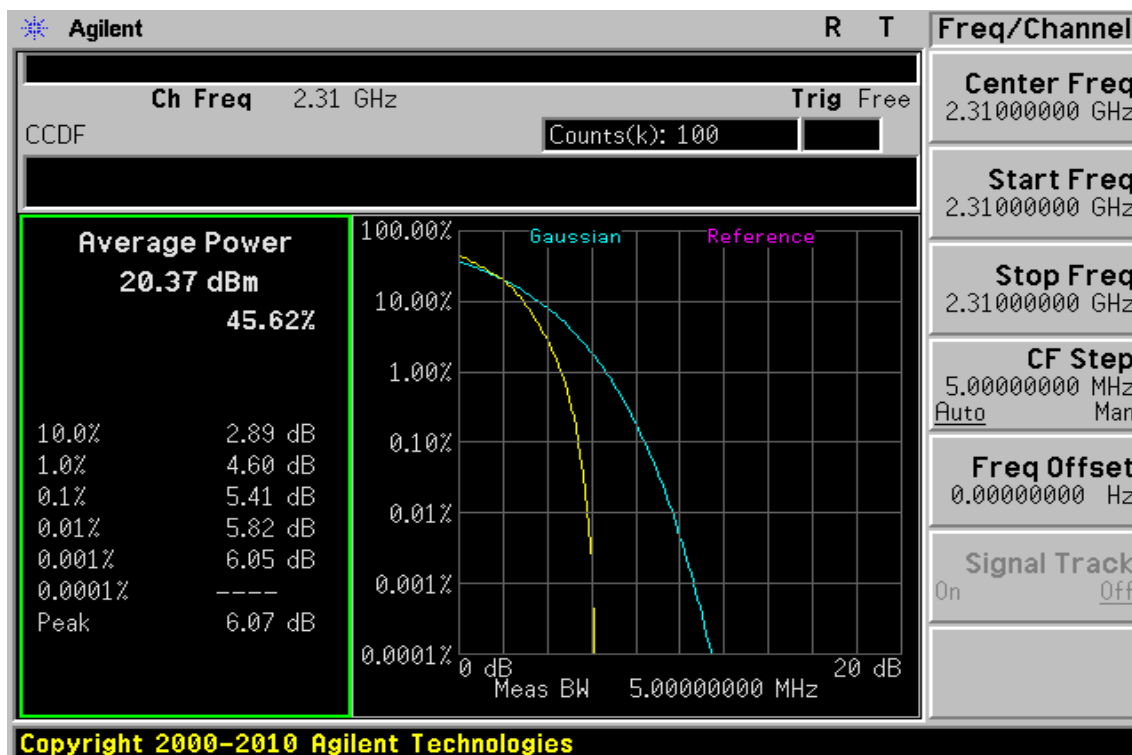
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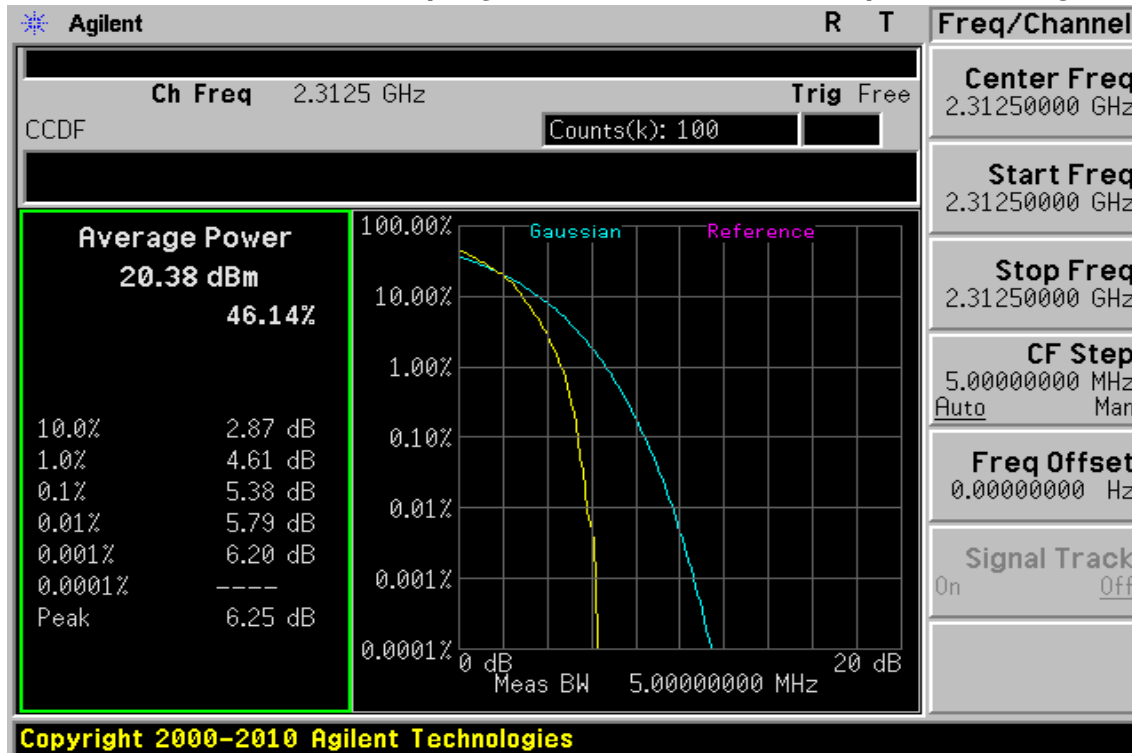
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5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 30(16QAM Number: 25 Offset: 0) Channel High



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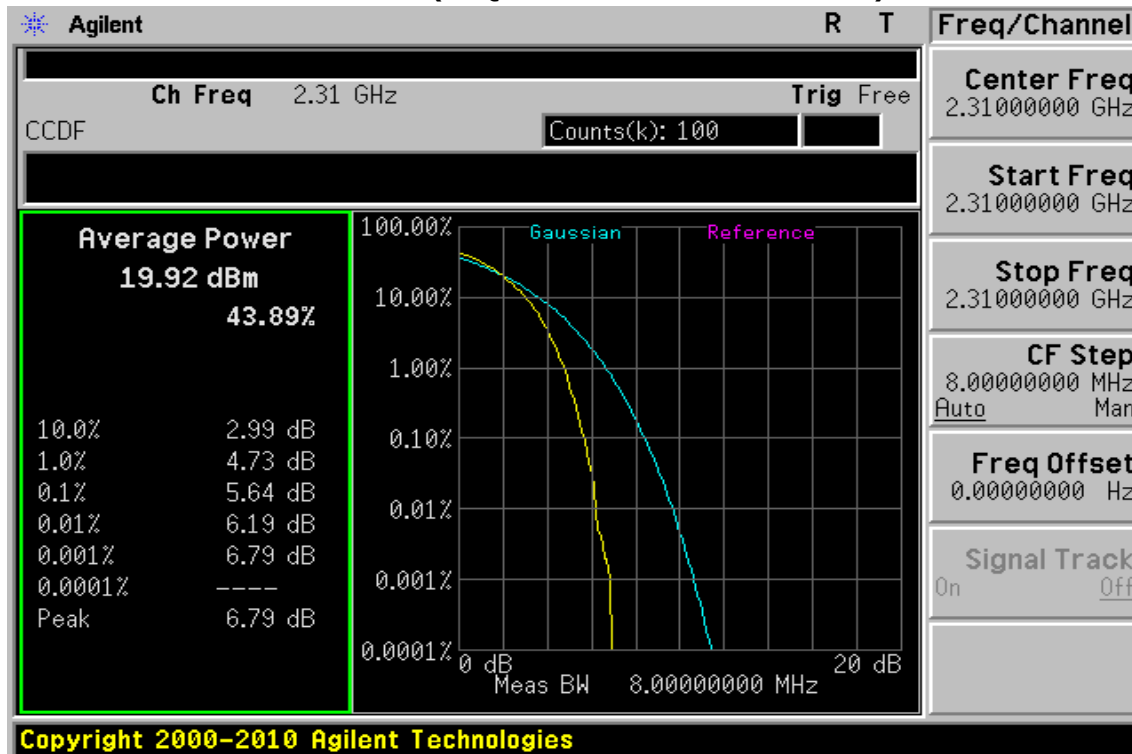
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10MHz BW LTE-Band 30(16QAM Number: 50 Offset: 0) Channel Mid



~ End of Report ~

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