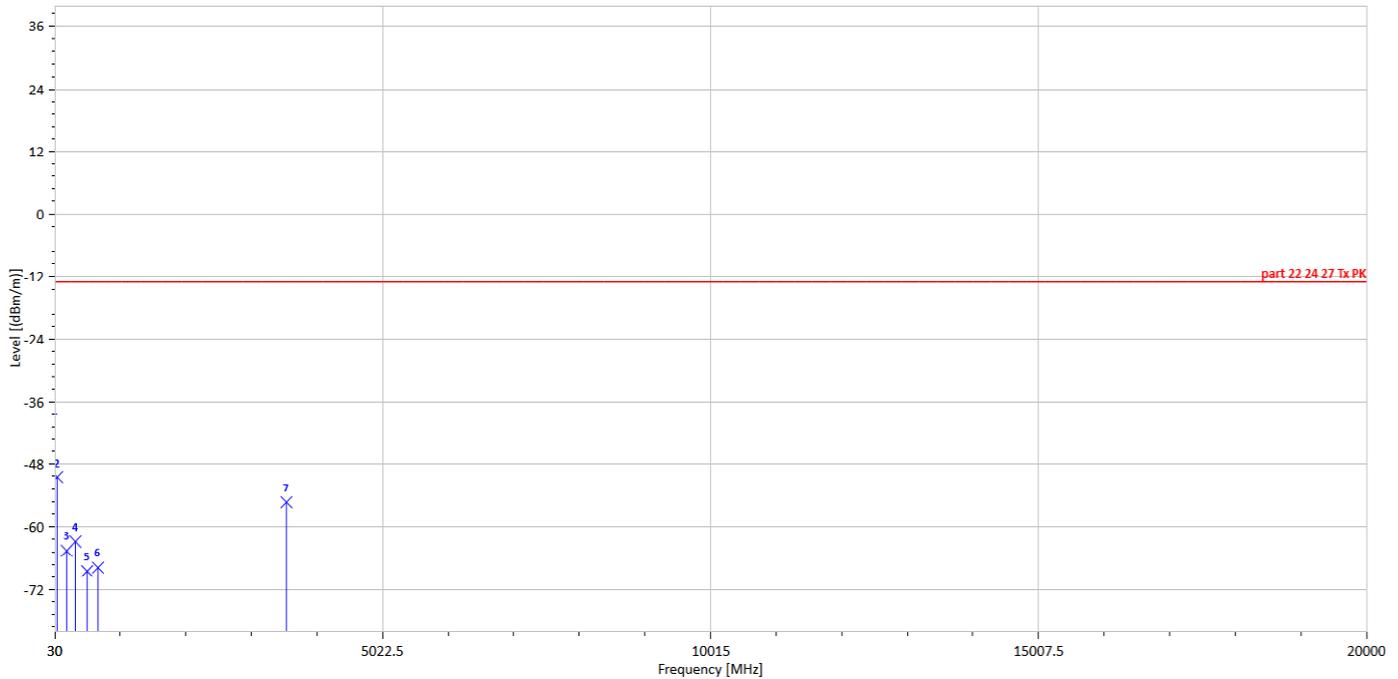


Operation Mode : LTEB66 1.4M 16QAM 1.0      Test Date : 2017/11/25  
 Fundamental Frequency : 1779.3 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



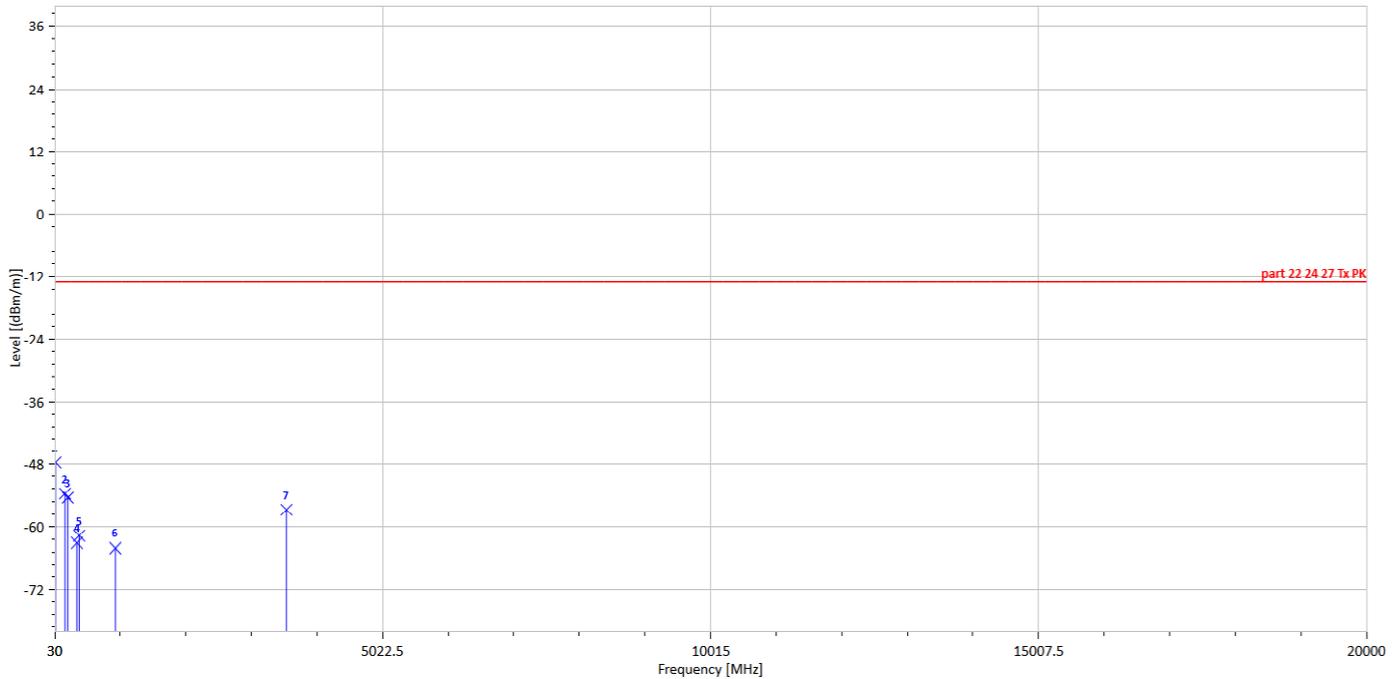
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.00	S	-40.56	-19.39	-20.35	-0.82	-13.01	-27.55
68.02	S	-50.53	-49.26	-0.15	-1.12	-13.01	-37.52
213.17	S	-64.57	-68.67	6.15	-2.06	-13.01	-51.56
345.65	S	-62.90	-66.21	5.98	-2.66	-13.01	-49.89
524.22	S	-68.45	-71.62	6.50	-3.33	-13.01	-55.44
690.11	S	-67.76	-71.57	7.60	-3.80	-13.01	-54.75
3558.60	H	-55.34	-58.87	12.34	-8.80	-13.01	-42.33

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Operation Mode :	LTEB66 1.4M 16QAM 1.0	Test Date :	2017/11/25
Fundamental Frequency :	1779.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
41.52	S	-47.64	-35.95	-10.82	-0.87	-13	-34.64
187.83	S	-53.67	-57.53	5.78	-1.93	-13	-40.67
230.45	S	-54.48	-58.36	6.03	-2.14	-13	-41.48
368.69	S	-63.10	-66.25	5.90	-2.74	-13	-50.10
403.25	S	-61.76	-64.65	5.79	-2.89	-13	-48.76
953.92	S	-64.07	-67.51	7.98	-4.53	-13	-51.07
3558.60	H	-56.80	-60.33	12.34	-8.80	-13.01	-43.79

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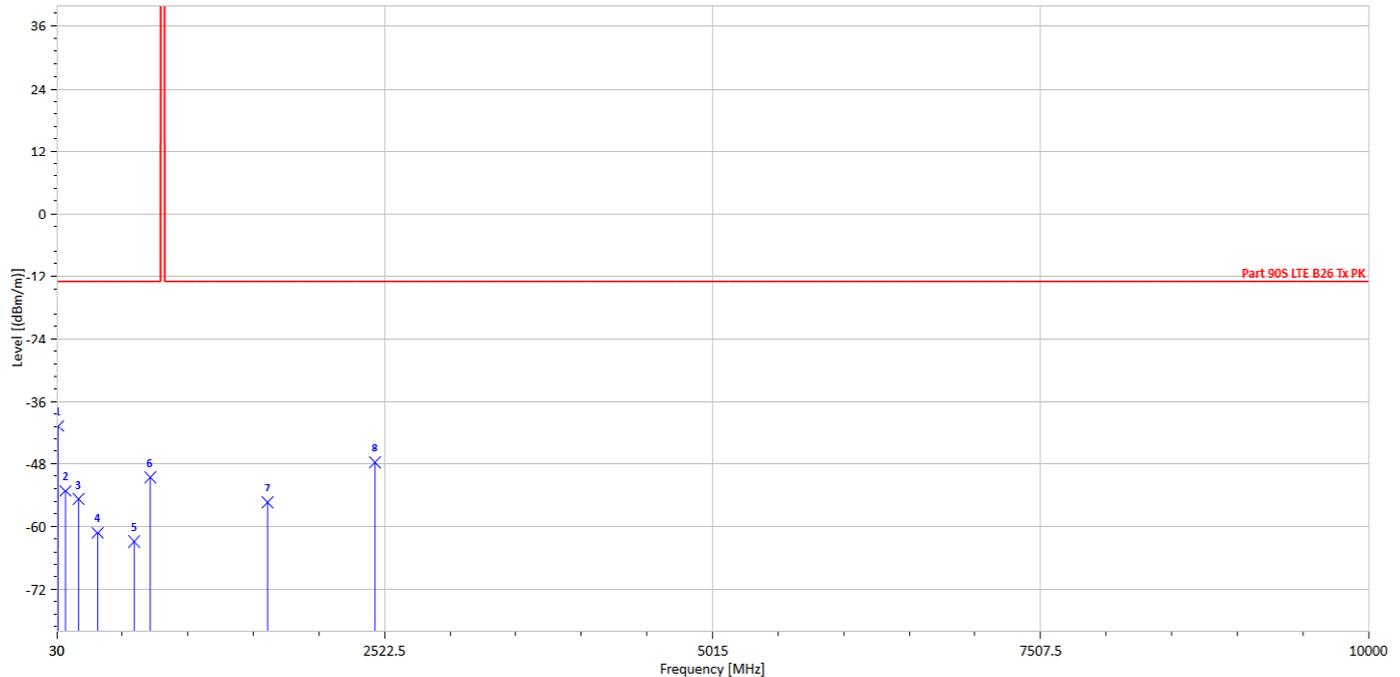
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## Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	816.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
40.06	S	-40.68	-25.77	-14.06	-0.86	-13	-27.68
97.05	S	-53.22	-48.84	-3.02	-1.36	-13	-40.22
196.51	S	-54.77	-56.71	3.91	-1.97	-13	-41.77
341.79	S	-61.29	-62.09	3.45	-2.65	-13	-48.29
618.93	S	-62.93	-63.74	4.43	-3.63	-13	-49.93
741.85	S	-50.63	-51.86	5.14	-3.92	-13	-37.63
1633.00	H	-55.41	-55.50	6.51	-6.42	-13	-42.41
2449.50	H	-47.67	-48.40	8.50	-7.77	-13	-34.67

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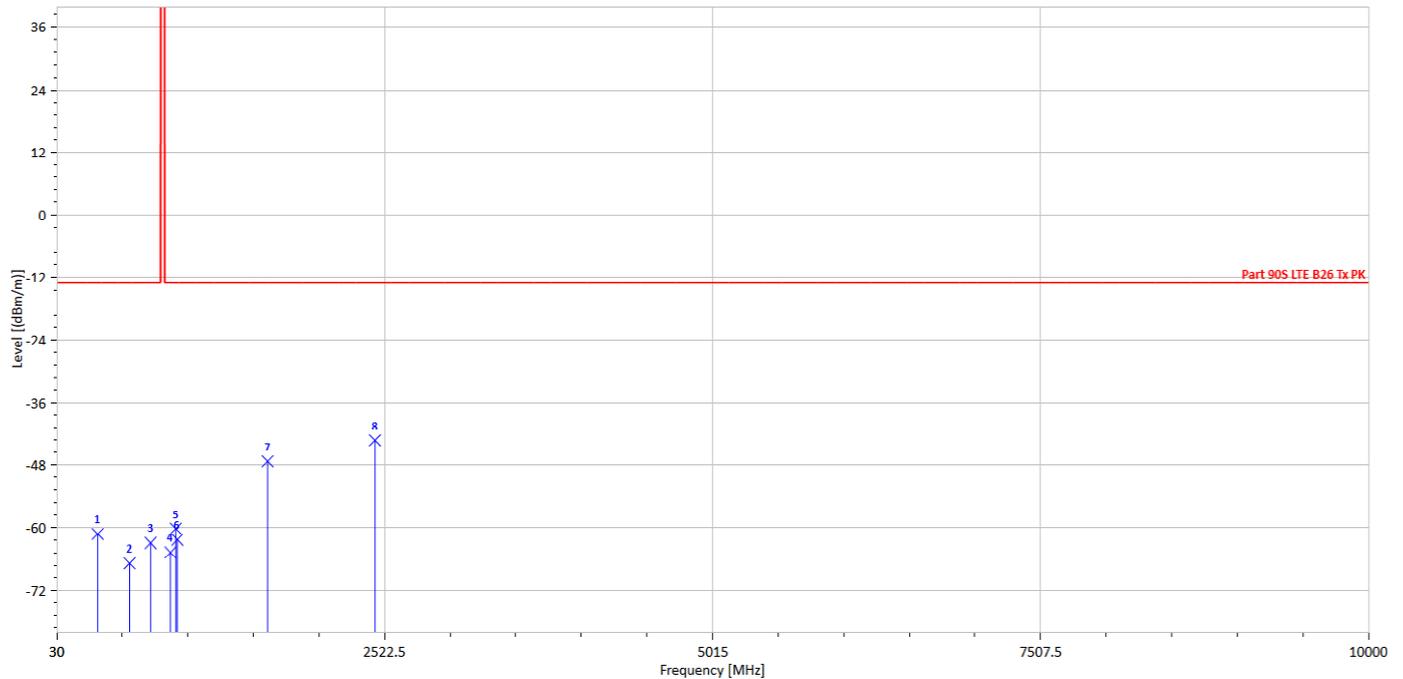
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Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	816.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBd/dBi	dB	dBm/m	
341.79	S	-61.30	-62.10	3.45	-2.65	-13	-48.30
584.29	S	-66.77	-67.47	4.21	-3.51	-13	-53.77
744.09	S	-62.97	-64.20	5.15	-3.92	-13	-49.97
894.95	S	-64.71	-65.53	5.22	-4.40	-13	-51.71
935.18	S	-60.25	-61.12	5.36	-4.49	-13	-47.25
947.48	S	-62.36	-63.25	5.40	-4.51	-13	-49.36
1633.00	H	-47.26	-47.35	6.51	-6.42	-13	-34.26
2449.50	H	-43.23	-43.97	8.50	-7.77	-13	-30.23

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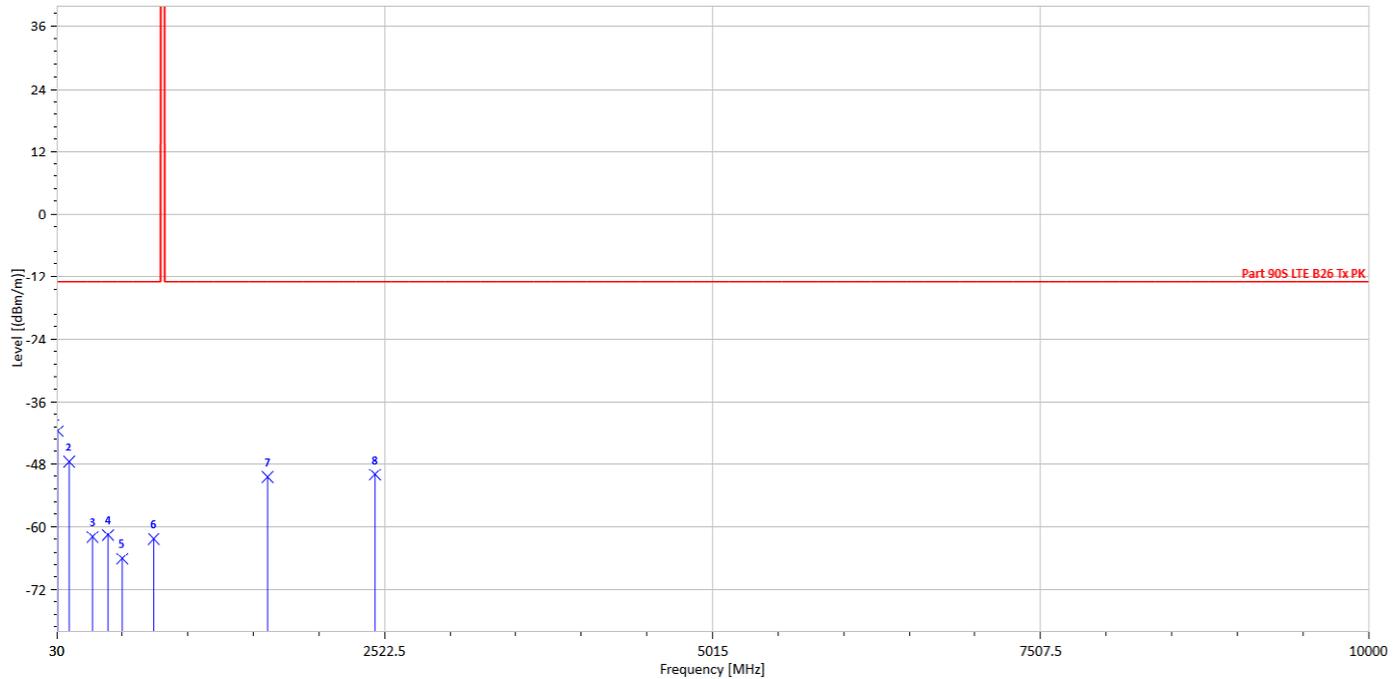
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Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
36.71	S	-41.61	-23.99	-16.78	-0.85	-13	-28.61
124.99	S	-47.50	-43.10	-2.86	-1.54	-13	-34.50
302.67	S	-62.02	-63.04	3.50	-2.47	-13	-49.02
420.01	S	-61.64	-62.06	3.37	-2.95	-13	-48.64
528.41	S	-66.05	-66.70	4.00	-3.34	-13	-53.05
767.56	S	-62.40	-63.58	5.18	-4.00	-13	-49.40
1633.00	H	-50.50	-50.59	6.51	-6.42	-13	-37.50
2449.50	H	-50.00	-50.73	8.50	-7.77	-13	-37.00

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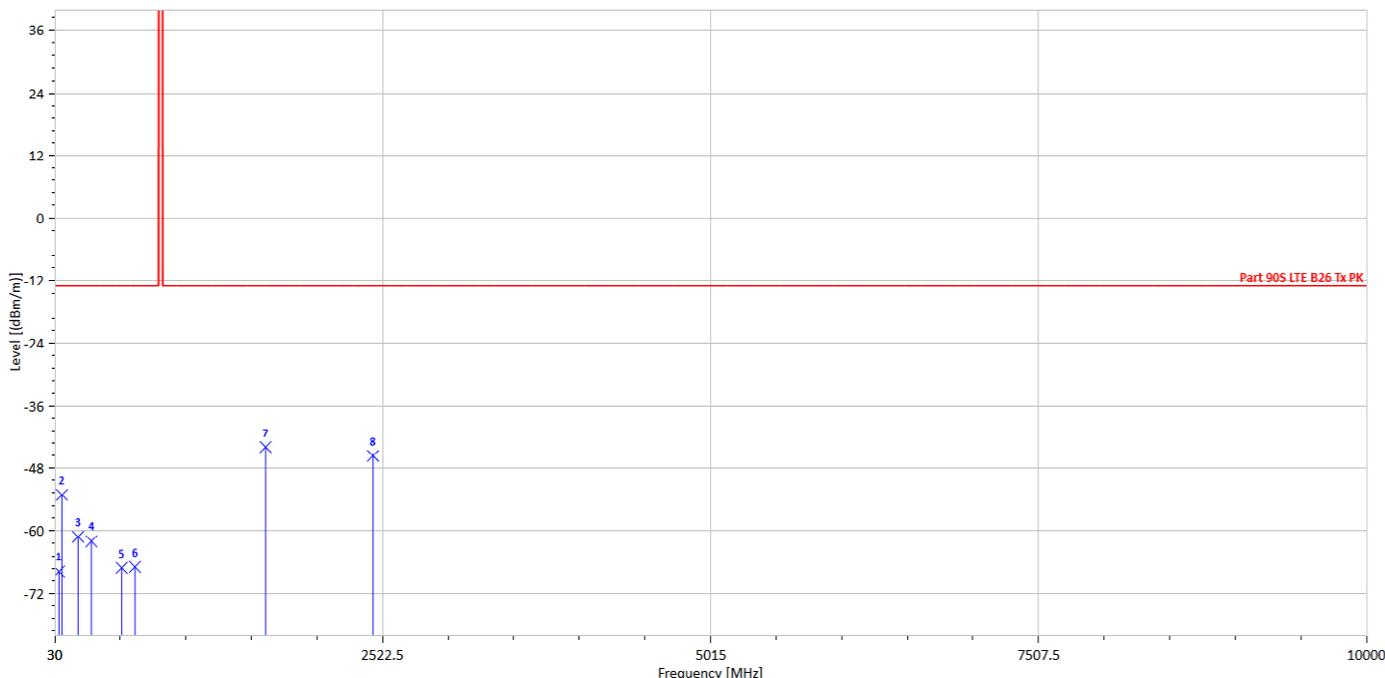
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Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
62.41	S	-67.76	-63.80	-2.88	-1.07	-13	-54.76
84.76	S	-53.15	-49.94	-1.96	-1.26	-13	-40.15
207.68	S	-61.24	-63.16	3.95	-2.03	-13	-48.24
309.38	S	-62.07	-63.06	3.49	-2.51	-13	-49.07
539.59	S	-67.06	-67.67	3.98	-3.38	-13	-54.06
640.16	S	-66.88	-67.77	4.56	-3.67	-13	-53.88
1633.00	H	-43.91	-44.00	6.51	-6.42	-13	-30.91
2449.50	H	-45.61	-46.34	8.50	-7.77	-13	-32.61

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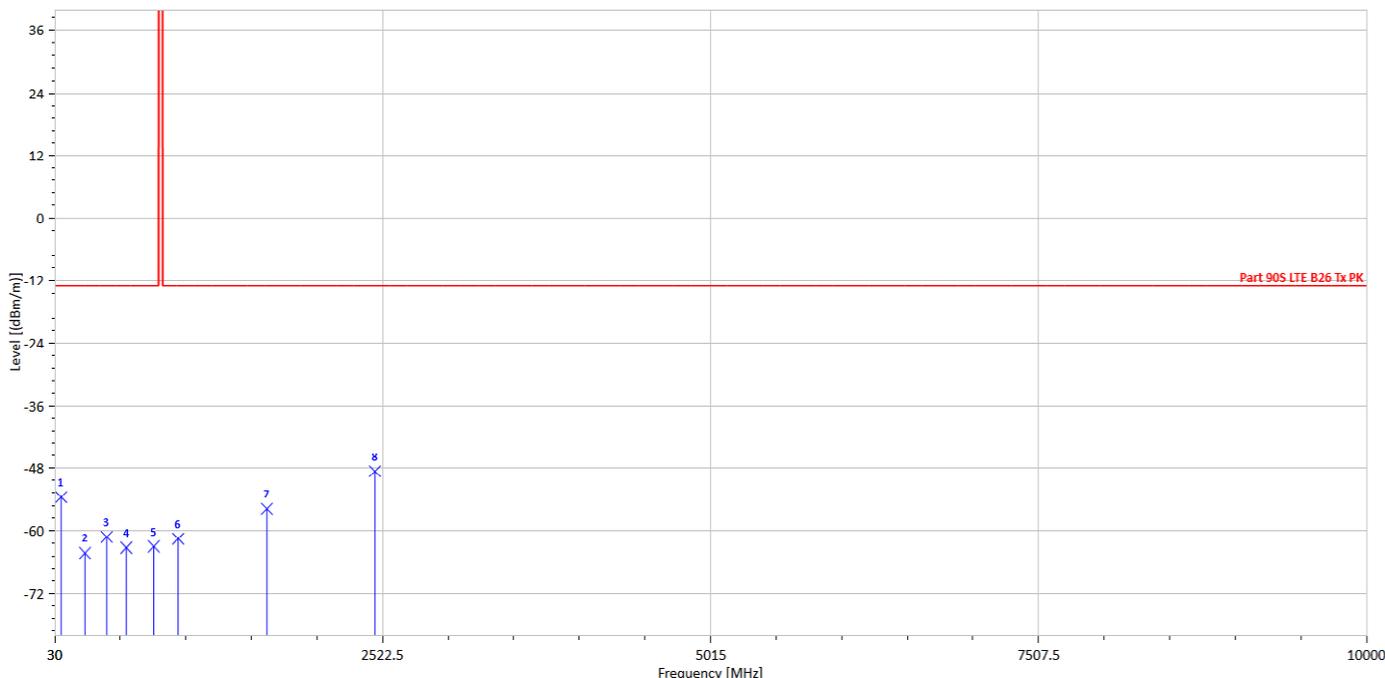
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Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	821.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
79.17	S	-53.57	-50.66	-1.70	-1.21	-13	-40.57
260.21	S	-64.23	-64.01	2.08	-2.30	-13	-51.23
425.60	S	-61.26	-61.71	3.42	-2.97	-13	-48.26
574.23	S	-63.25	-63.92	4.14	-3.47	-13	-50.25
783.20	S	-63.02	-64.16	5.20	-4.06	-13	-50.02
968.71	S	-61.59	-62.48	5.47	-4.58	-13	-48.59
1643.00	H	-55.81	-55.92	6.55	-6.44	-13	-42.81
2464.50	H	-48.59	-49.32	8.51	-7.79	-13	-35.59

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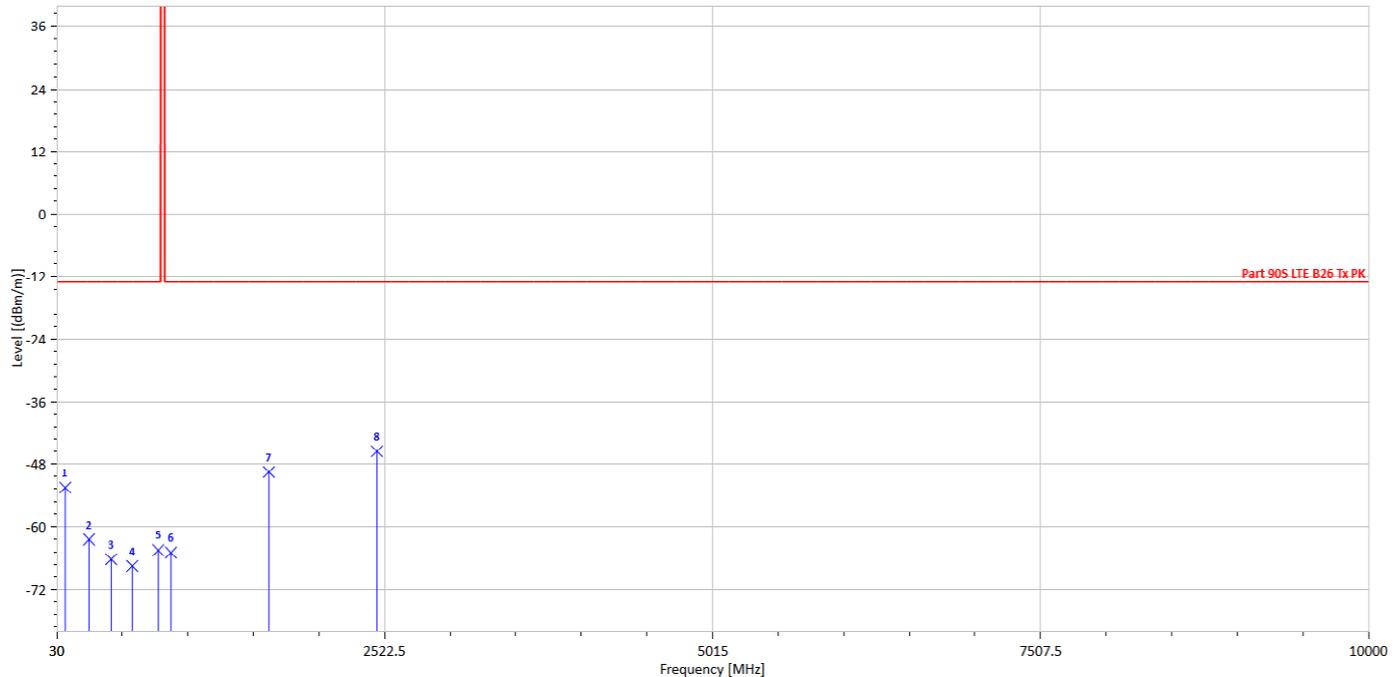
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Operation Mode :	LTEB26 90 5M QPSK 1.0	Test Date :	2017/11/27
Fundamental Frequency :	821.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
94.82	S	-52.51	-48.39	-2.78	-1.34	-13	-39.51
275.85	S	-62.50	-63.35	3.21	-2.36	-13	-49.50
444.60	S	-66.16	-66.71	3.57	-3.03	-13	-53.16
604.40	S	-67.45	-68.21	4.35	-3.58	-13	-54.45
802.20	S	-64.46	-65.56	5.21	-4.11	-13	-51.46
898.31	S	-64.91	-65.74	5.23	-4.41	-13	-51.91
1643.00	H	-49.51	-49.62	6.55	-6.44	-13	-36.51
2464.50	H	-45.50	-46.23	8.51	-7.79	-13	-32.50

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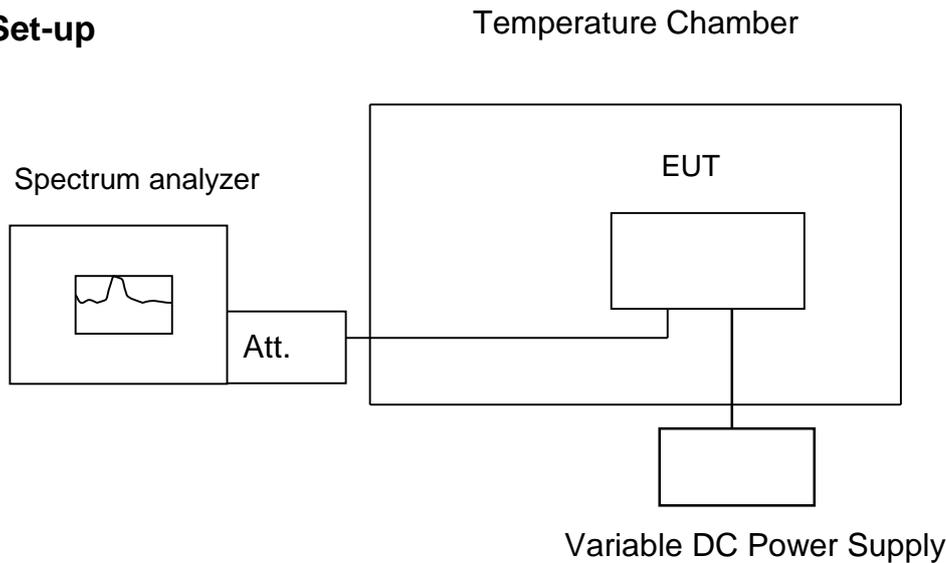
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## 11. FREQUENCY STABILITY MEASUREMENT

### 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

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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.

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.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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## 11.5. Measurement Result

### 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	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
13.28	20	1879999954	-69	4700
11.55	20	1880000023	60	4700
9.8	20	1879999963	-92	4700
9.6 (End point)	20	1880000055	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	Temp. (°C)	(MHz)		
11.55	50	1879999951	-73	4700
11.55	40	1880000024	87	4700
11.55	30	1879999937	-22	4700
11.55	20	1879999959	-103	4700
11.55	10	1880000062	81	4700
11.55	0	1879999981	-53	4700
11.55	-10	1880000034	18	4700
11.55	-20	1880000016	37	4700
11.55	-30	1879999979	7	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	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
13.28	20	173260025	46	4331
11.55	20	173259979	23	4331
9.8	20	173259956	-122	4331
9.6 (End point)	20	173260078	-5	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	Temp. (°C)	(MHz)		
11.55	50	173259985	-34	4331
11.55	40	173260019	-15	4331
11.55	30	173260034	92	4331
11.55	20	173259942	-37	4331
11.55	10	173259979	-105	4331
11.55	0	173260084	16	4331
11.55	-10	173260068	91	4331
11.55	-20	173259977	-88	4331
11.55	-30	173260065	7	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	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
13.28	20	836599995	-41	2091
11.55	20	836600036	-10	2091
9.8	20	836600046	89	2091
9.6 (End point)	20	836599957	-1	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	Temp. (°C)	(MHz)		
11.55	50	836599956	-108	2091
11.55	40	836600064	96	2091
11.55	30	836599968	-7	2091
11.55	20	836599975	-51	2091
11.55	10	836600026	41	2091
11.55	0	836599985	-49	2091
11.55	-10	836600034	-28	2091
11.55	-20	836600062	45	2091
11.55	-30	836600017	4	2091

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.28	25	1880	-9.999999975	4700	
11.55	25	1880.00001	0	4700	
9.8	25	1880.000005	-4.999999874	4700	
9.6	25	1879.999985	-25.00000005	4700	

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
11.55	-30	1880.000014	5.999999985	4700	
11.55	-20	1880.000015	7.000000096	4700	
11.55	-10	1879.999994	-13.99999996	4700	
11.55	0	1880.000007	-0.999999884	4700	
11.55	10	1879.999978	-29.99999992	4700	
11.55	20	1880.000008	0	4700	
11.55	30	1879.999996	-11.99999997	4700	
11.55	40	1879.999976	-31.99999992	4700	
11.55	50	1880.000002	-5.999999985	4700	

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.28	25	1732.499989	-19.00000007	4331	
11.55	25	1732.500008	0	4331	
9.8	25	1732.500012	3.99999999	4331	
9.6	25	1732.499994	-13.99999996	4331	

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
11.55	-30	1732.499983	-34.00000014	4331	
11.55	-20	1732.500009	-7.99999998	4331	
11.55	-10	1732.500005	-11.99999997	4331	
11.55	0	1732.49998	-37.00000002	4331	
11.55	10	1732.499978	-39.00000002	4331	
11.55	20	1732.500017	0	4331	
11.55	30	1732.499997	-20.00000018	4331	
11.55	40	1732.500008	-9.000000091	4331	
11.55	50	1732.499976	-41.00000001	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)			
13.28	25	836.50002	39.9999999	2091	
11.55	25	836.49998	0	2091	
9.8	25	836.499978	-1.999999995	2091	
9.6	25	836.499993	12.99999997	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)			
11.55	-30	836.500003	20	2091	
11.55	-20	836.499989	6	2091	
11.55	-10	836.499984	1	2091	
11.55	0	836.500015	32	2091	
11.55	10	836.499975	-8	2091	
11.55	20	836.499983	0	2091	
11.55	30	836.499989	6	2091	
11.55	40	836.499998	15	2091	
11.55	50	836.499977	-6	2091	

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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)			
12.7	25	707.500009	6	1769	
11.55	25	707.500003	0	1769	
10.4	25	707.499994	-9	1769	
9.6 (End Point)	25	707.499993	-10	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)			
11.55	-30	707.500005	14	1769	
11.55	-20	707.500004	13	1769	
11.55	-10	707.500008	17	1769	
11.55	0	707.500005	14	1769	
11.55	10	707.500006	15	1769	
11.55	20	707.499991	0	1769	
11.55	30	707.499997	6	1769	
11.55	40	707.499993	2	1769	
11.55	50	707.499992	1	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)			
12.7	25	782.000005	-2	1955	
11.55	25	782.000007	0	1955	
10.4	25	781.999994	-13	1955	
9.6 (End Point)	25	781.999994	-13	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)			
11.55	-30	782.000007	10	1955	
11.55	-20	782.000006	9	1955	
11.55	-10	782.000005	8	1955	
11.55	0	782.000004	7	1955	
11.55	10	782.000006	9	1955	
11.55	20	781.999997	0	1955	
11.55	30	781.999995	-2	1955	
11.55	40	781.999995	-2	1955	
11.55	50	781.999996	-1	1955	

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12.7	25	836.50001	5	2091	
11.55	25	836.500005	0	2091	
10.4	25	836.499991	-14	2091	
9.6 (End Point)	25	836.499996	-9	2091	

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
11.55	-30	836.500008	12	2091	
11.55	-20	836.500006	10	2091	
11.55	-10	836.500004	8	2091	
11.55	0	836.500003	7	2091	
11.55	10	836.500008	12	2091	
11.55	20	836.499996	0	2091	
11.55	30	836.499993	-3	2091	
11.55	40	836.499991	-5	2091	
11.55	50	836.499996	0	2091	

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### FREQUENCY ERROR vs. VOLTAGE (LTE B26 for Part 90S)

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12.7	25	819	-4	2048	
11.55	25	819.00001	0	2048	
10.4	25	818.99999	-14	2048	
9.6 (End Point)	25	819	-12	2048	

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
11.55	-30	819.00001	11	2048	
11.55	-20	819.00001	7	2048	
11.55	-10	819	6	2048	
11.55	0	819.00001	8	2048	
11.55	10	819	5	2048	
11.55	20	819	0	2048	
11.55	30	818.99999	-5	2048	
11.55	40	819	-2	2048	
11.55	50	819	-1	2048	

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B38 Mid Channel	2595.0	MHz	10M QPSK CH 38000
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12.7	25	2595	3	6488	
11.55	25	2595	0	6488	
10.4	25	2595	-9	6488	
9.6 (End Point)	25	2595	-10	6488	

### FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B38 Mid Channel	2595.0	MHz	10M QPSK CH 38000
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
11.55	-30	2595	13	6488	
11.55	-20	2595	10	6488	
11.55	-10	2595	9	6488	
11.55	0	2595	11	6488	
11.55	10	2595	10	6488	
11.55	20	2595	0	6488	
11.55	30	2595	-2	6488	
11.55	40	2595	1	6488	
11.55	50	2595	4	6488	

**Note: The battery is rated 11.55V dc.**

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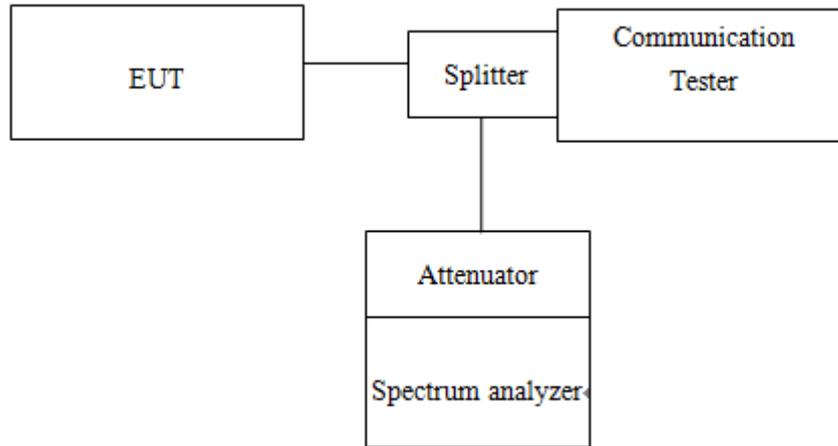
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## 12. PEAK TO AVERAGE RATIO

### 12.1. Standard Applicable

The peak-to-average ratio (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.

### 12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018

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## 12.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.20	4.35	<b>4.32</b>
1880.0	9400	<b>3.46</b>	4.14	3.61
1907.6	9538	2.89	<b>4.44</b>	4.24

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
1712.4	1312	3.38	<b>4.27</b>	3.98
1732.6	1413	3.47	3.93	<b>4.08</b>
1752.6	1513	<b>3.48</b>	4.04	3.59

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
826.4	4132	3.17	3.61	3.79
836.6	4183	<b>3.42</b>	<b>4.22</b>	<b>4.16</b>
846.6	4233	3.06	3.64	3.52

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.58	13	1851.5	18615	6.54	13
1880.0	18900	6.68	13	1880.0	18900	6.74	13
1909.3	19193	6.41	13	1908.5	19185	6.48	13
LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.83	13	1855.0	18650	6.60	13
1880.0	18900	6.71	13	1880.0	18900	6.68	13
1907.5	19175	6.53	13	1905.0	19150	6.56	13
LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.27	13	1860.0	18700	6.65	13
1880.0	18900	6.33	13	1880.0	18900	6.78	13
1902.5	19125	6.27	13	1900.0	19100	6.67	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.42	13	1711.5	19965	6.42	13
1732.5	20175	6.46	13	1732.5	20175	6.52	13
1754.3	20393	6.61	13	1753.5	20385	6.45	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.19	13	1715.0	20000	6.35	13
1732.5	20175	6.51	13	1732.5	20175	6.43	13
1752.5	20375	6.45	13	1750.0	20350	6.38	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.24	13	1720.0	20050	6.80	13
1732.5	20175	6.33	13	1732.5	20175	6.73	13
1747.5	20325	6.19	13	1745.0	20300	6.65	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
824.7	20407	5.24	13	825.5	20415	5.47	13
836.5	20525	6.41	13	836.5	20525	6.40	13
848.3	20643	5.87	13	847.5	20635	5.92	13
LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.41	13	829.0	20450	5.59	13
836.5	20525	6.19	13	836.5	20525	6.46	13
846.5	20625	5.31	13	844.0	20600	5.62	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2502.5	20775	5.95	13	2505.0	20800	6.26	13
2535.0	21100	6.15	13	2535.0	21100	6.20	13
2567.5	21375	5.90	13	2565.0	21350	6.17	13
LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2507.5	20825	6.07	13	2510	20850	6.71	13
2535	21100	6.15	13	2535	21100	6.62	13
2562.5	21375	6.16	13	2560	21350	6.68	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
699.7	23017	5.50	13	700.5	23025	5.93	13
707.5	23095	5.95	13	707.5	23095	6.21	13
715.3	23173	6.22	13	714.5	23165	6.43	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
701.5	23035	6.00	13	704.0	23060	6.13	13
707.5	23095	6.13	13	707.5	23095	6.31	13
713.5	23155	6.19	13	711.0	23130	6.31	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
779.5	23205	6.51	13	782.0	23230	6.22	13
782.0	23230	6.48	13				
784.5	23255	6.29	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
706.5	23755	6.22	13	709	23780	6.19	13
710	23790	6.20	13	710	23790	6.24	13
713.5	23825	6.21	13	711	23780	6.25	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
824.7	26797	5.72	13	825.5	26805	6.16	13
836.5	26915	5.57	13	836.5	26915	5.81	13
848.3	27033	5.79	13	847.5	27025	5.80	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
826.5	26815	6.32	13	829.0	26840	6.42	13
836.5	26915	5.74	13	836.5	26915	5.86	13
846.5	27015	5.45	13	844.0	26990	5.64	13

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.12	13	815.5	26705	6.00	13
819	26740	5.58	13	819	26740	5.72	13
823.3	26783	5.52	13	822.5	26775	5.73	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
816.5	26715	5.87	13	819.0	26740	5.76	13
819	26740	5.77	13				
821.5	26765	5.71	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2307.5	27685	5.61	13	2310.0	27710	5.63	13
2310.0	27710	5.59	13				
2312.5	27735	5.79	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2572.5	37775	8.92	13	2575	37800	8.78	13
2595	38000	9.30	13	2595	38000	10.35	13
2617.5	38225	8.42	13	2615	38200	9.43	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2577.5	37825	9.18	13	2580.0	37850	10.20	13
2595	38000	11.23	13	2595.0	38000	10.16	13
2612.5	38175	9.73	13	2610.0	38150	10.15	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2498.5	39675	10.59	13	2501.0	39700	10.21	13
2593.0	40620	8.63	13	2593.0	40620	9.11	13
2687.5	41565	8.77	13	2685.0	41540	8.23	13
LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2503.5	39725	11.03	13	2506.0	39750	9.94	13
2593.0	40620	9.11	13	2593.0	40620	11.65	13
2682.5	41515	8.99	13	2680.0	41490	10.66	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		64QAM	Limit			64QAM	Limit
1710.7	131979	6.26	13	1711.5	131987	5.44	13
1745.0	132322	6.20	13	1745.0	132322	5.43	13
1779.3	132665	6.64	13	1778.5	132657	5.70	13
LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		64QAM	Limit			64QAM	Limit
1712.5	131997	5.41	13	1715.0	132022	5.75	13
1745.0	132322	5.37	13	1745.0	132322	5.58	13
1777.5	132647	6.06	13	1775.0	132622	5.96	13
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.34	13	1720.0	132072	6.82	13
1745.0	132322	6.17	13	1745.0	132322	6.87	13
1772.5	132597	6.39	13	1770.0	132572	6.83	13

**Measurement Results:**

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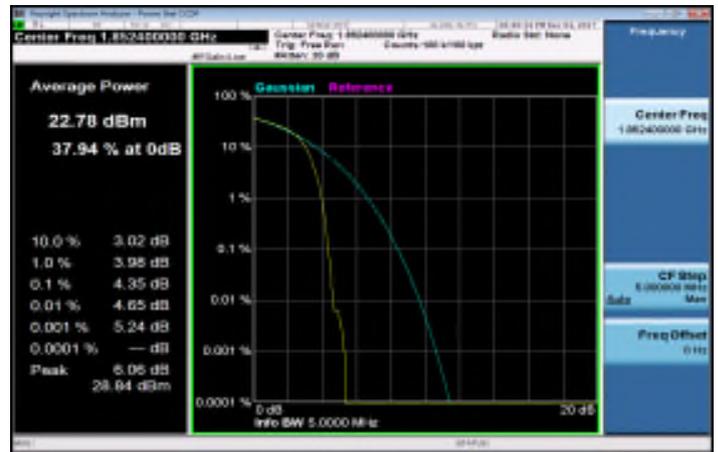
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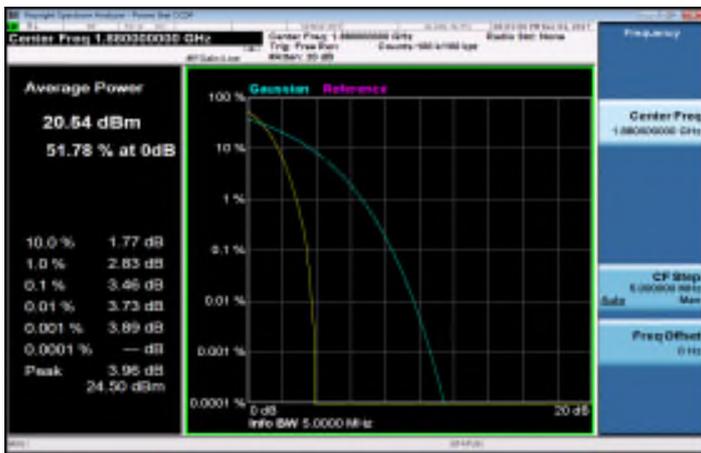
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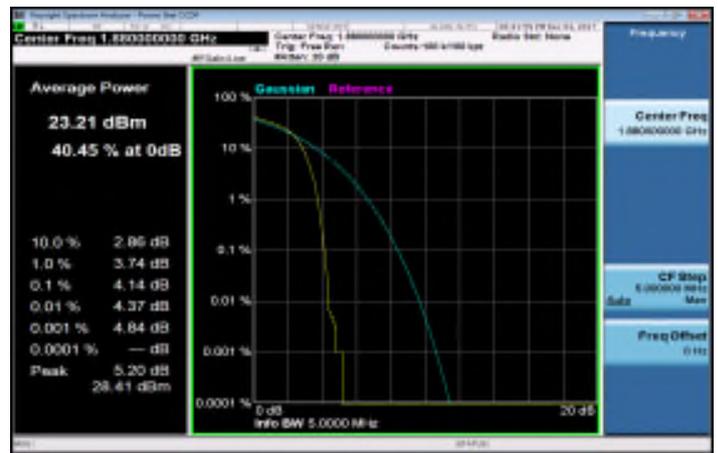
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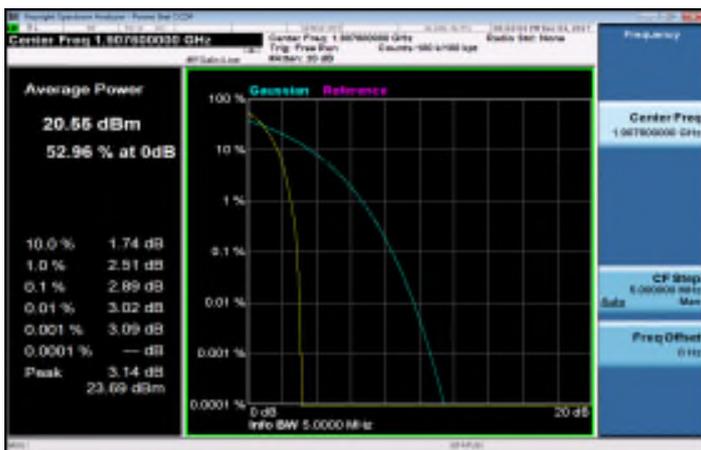
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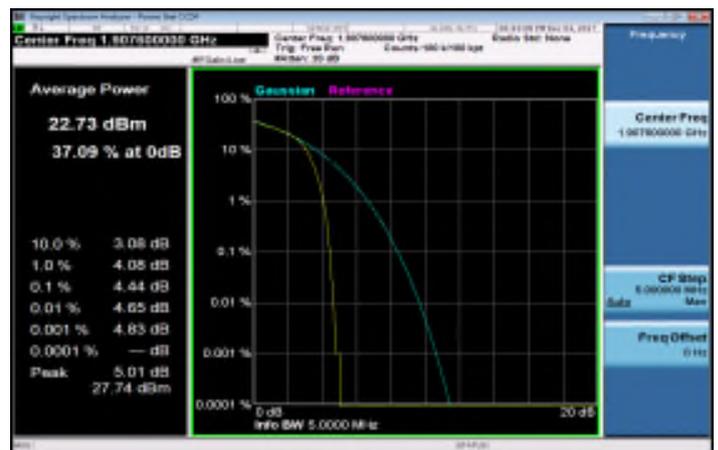
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HSDPA\_B2\_HighCH9538-1907.6



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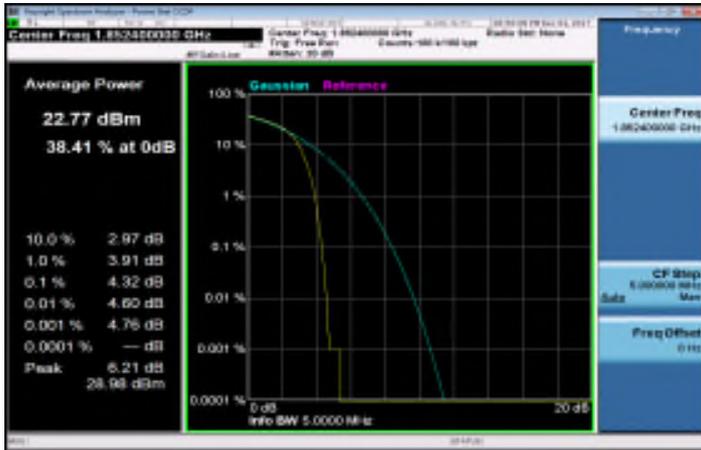
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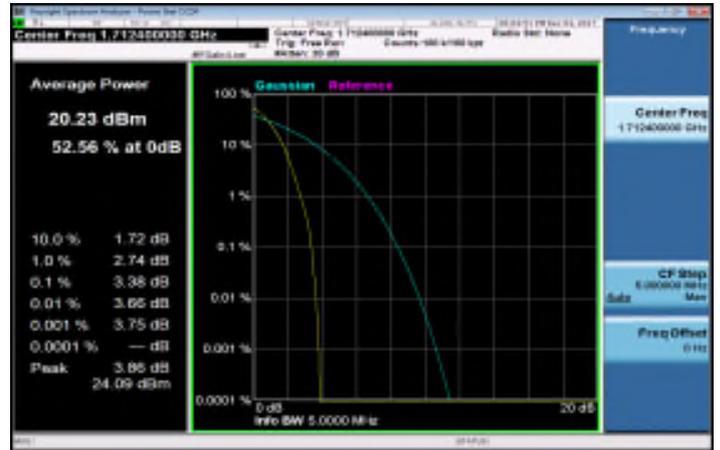
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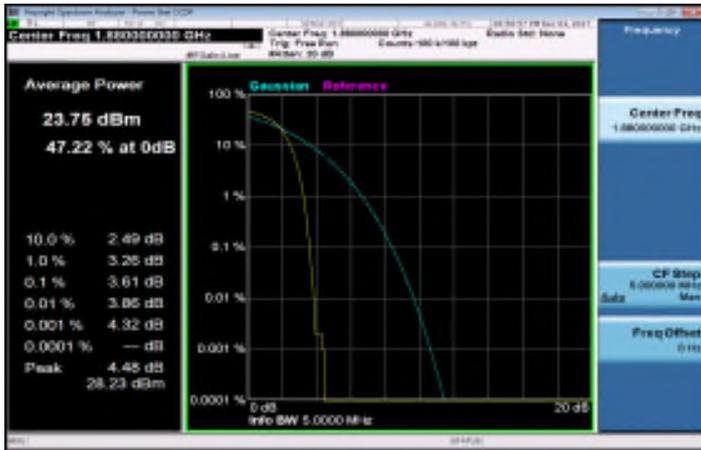
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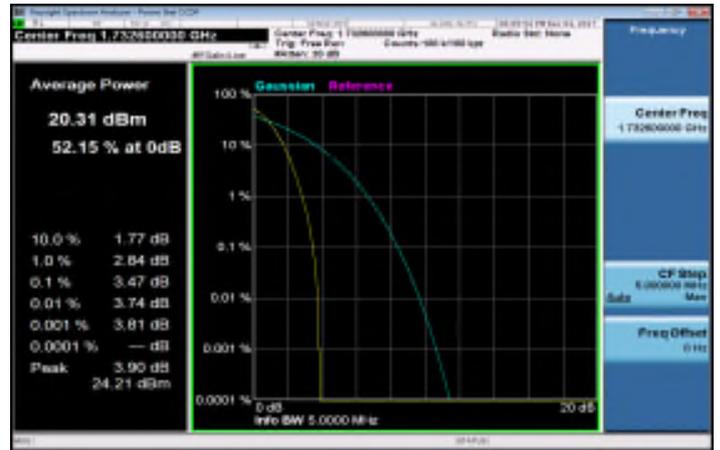
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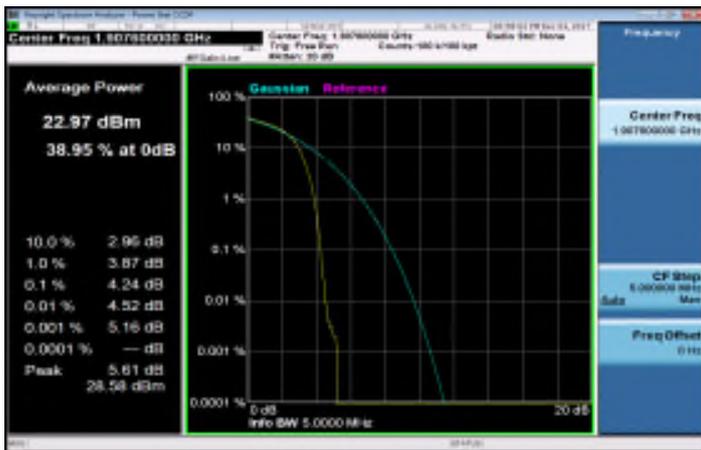
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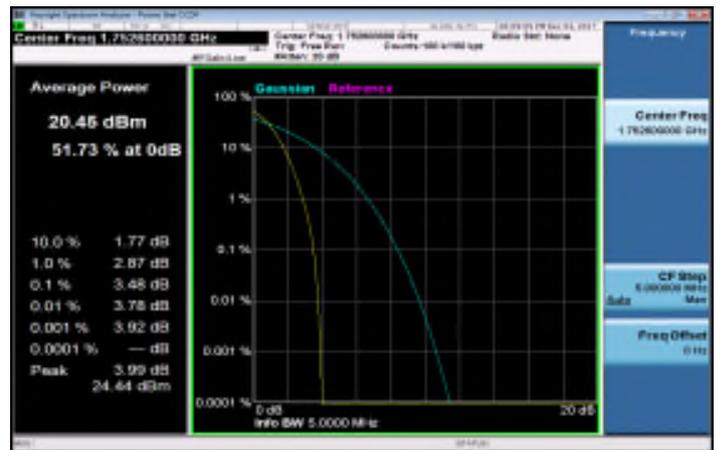
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WCDMA\_B4\_HighCH1513-1752.6



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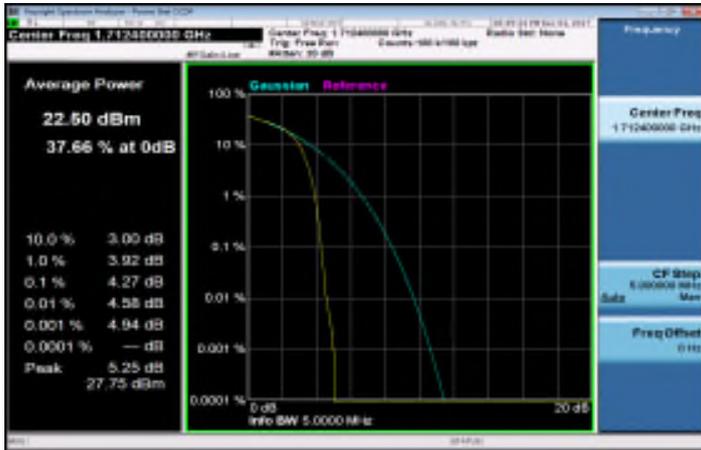
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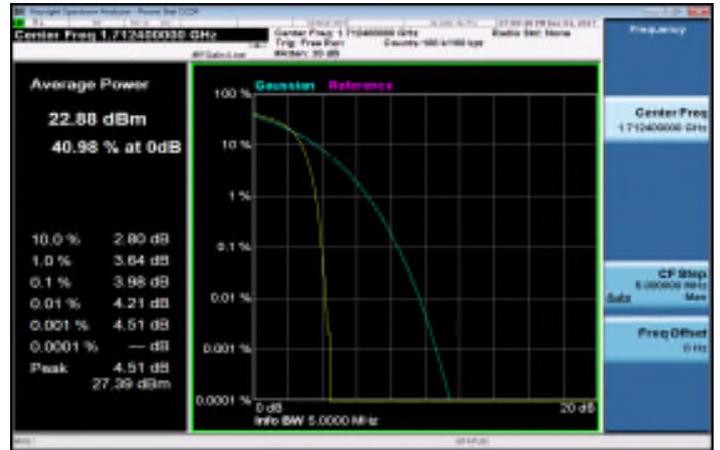
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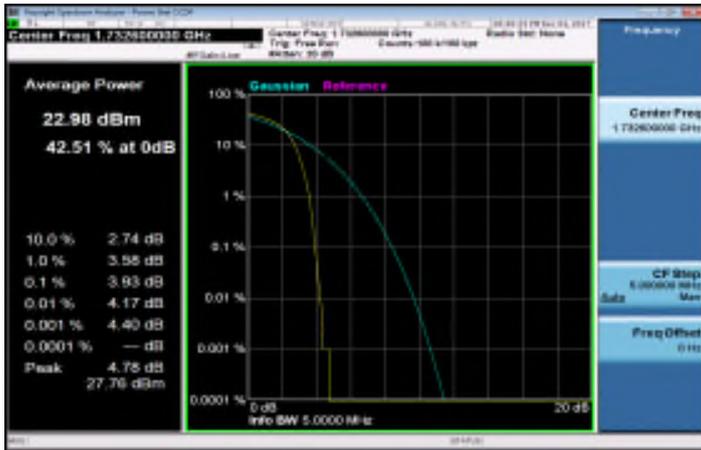
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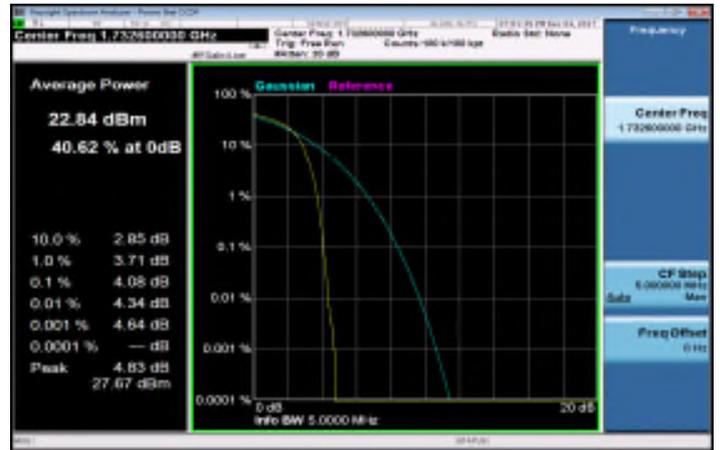
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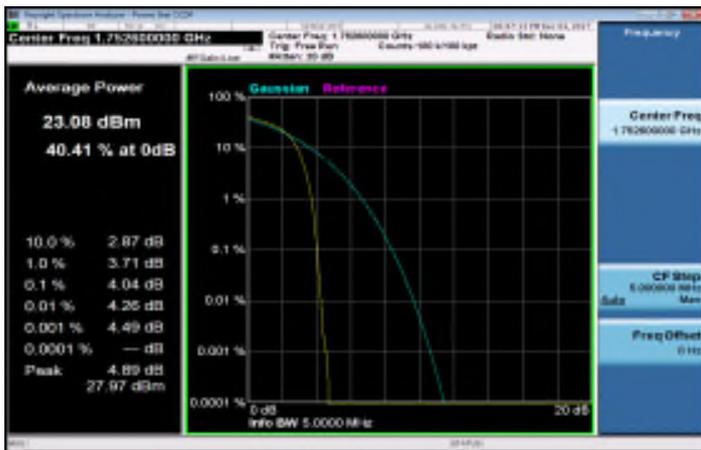
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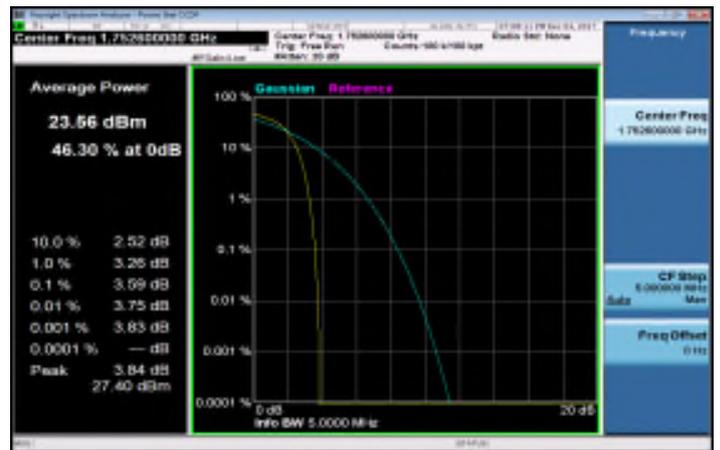
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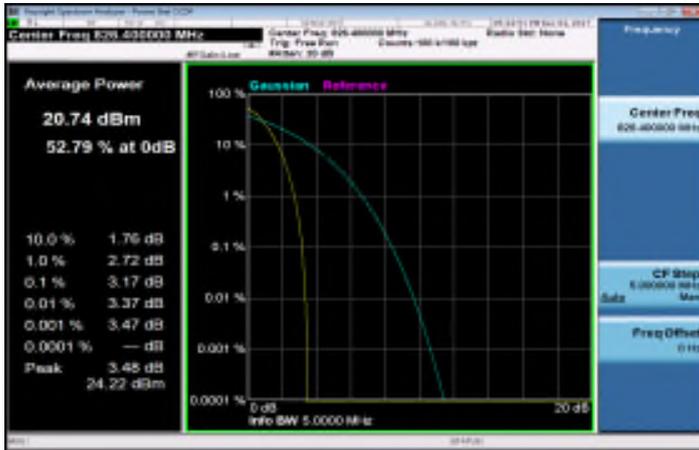


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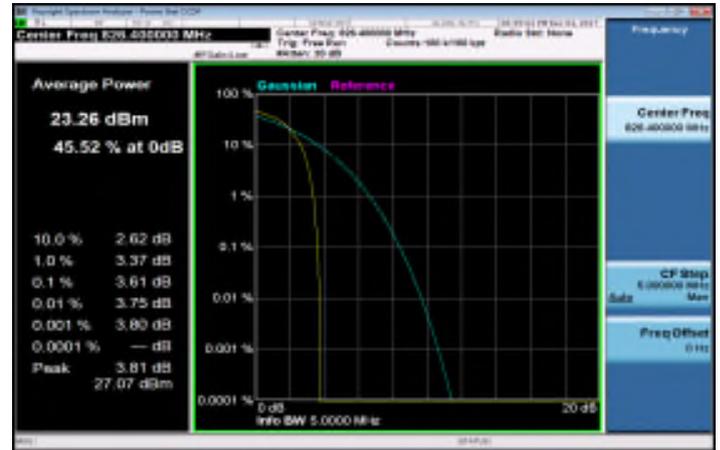
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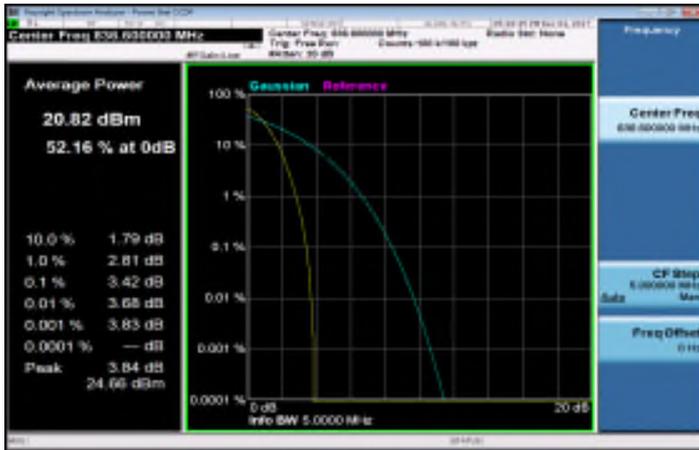
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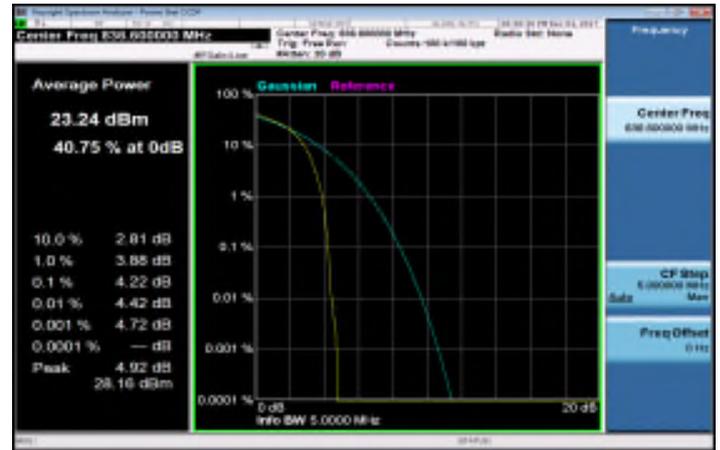
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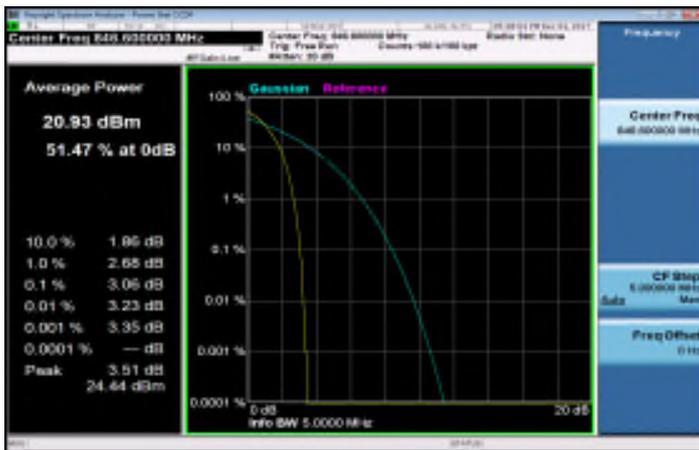
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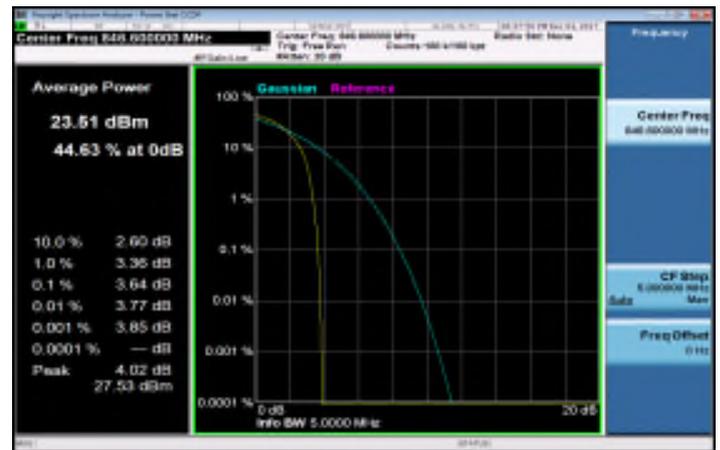
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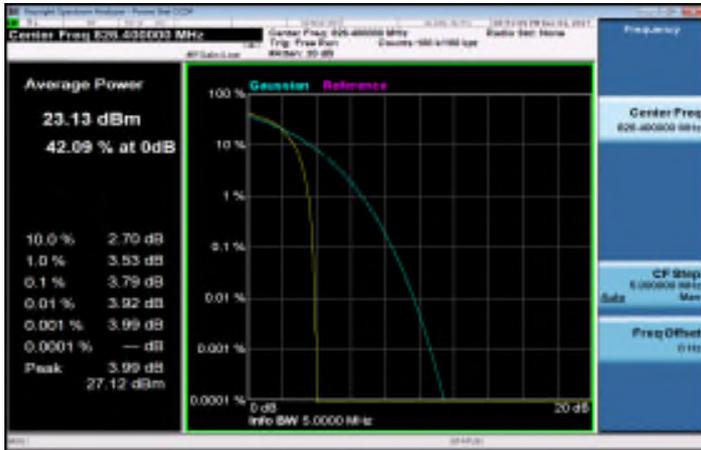


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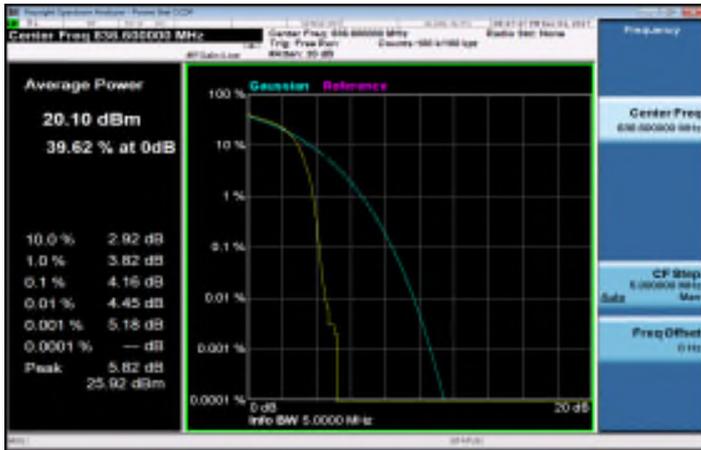
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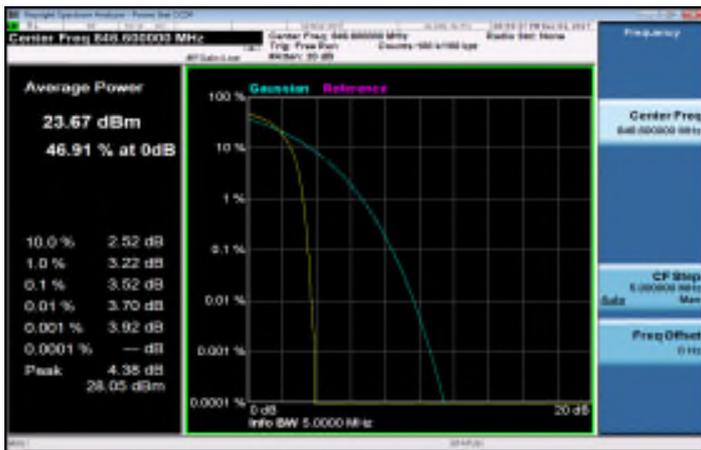
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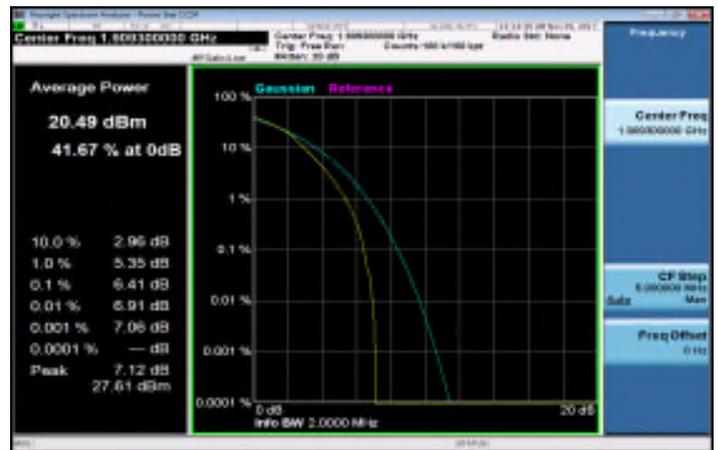
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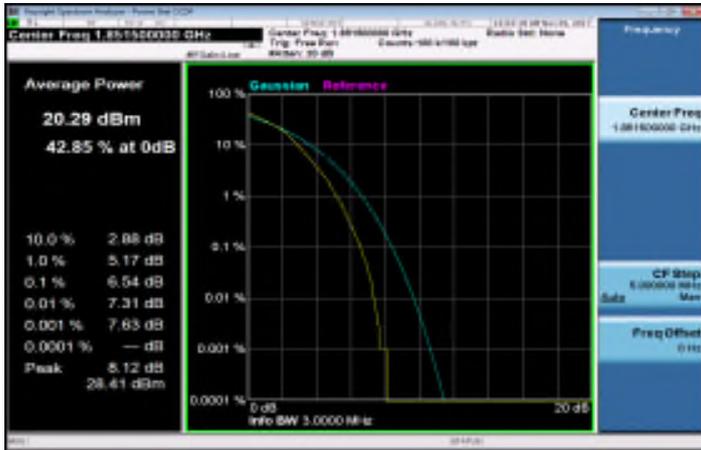


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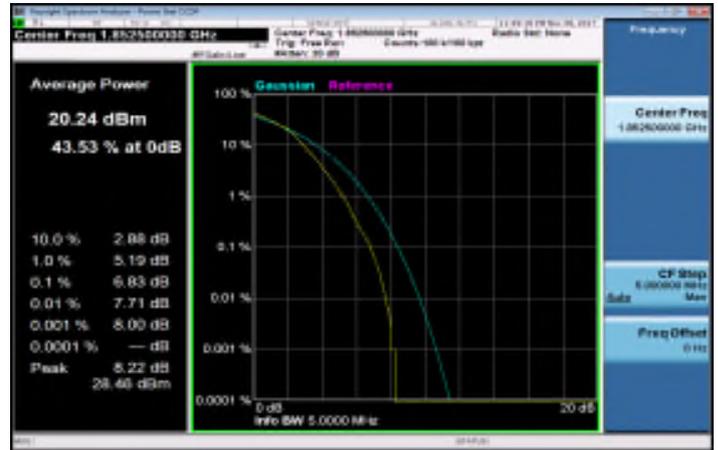
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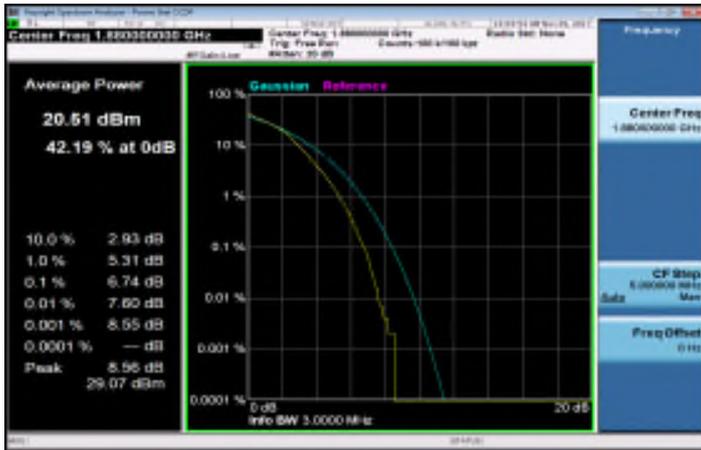
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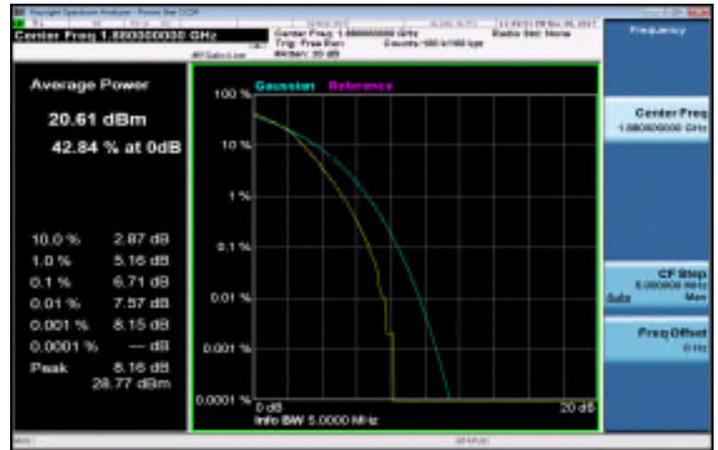
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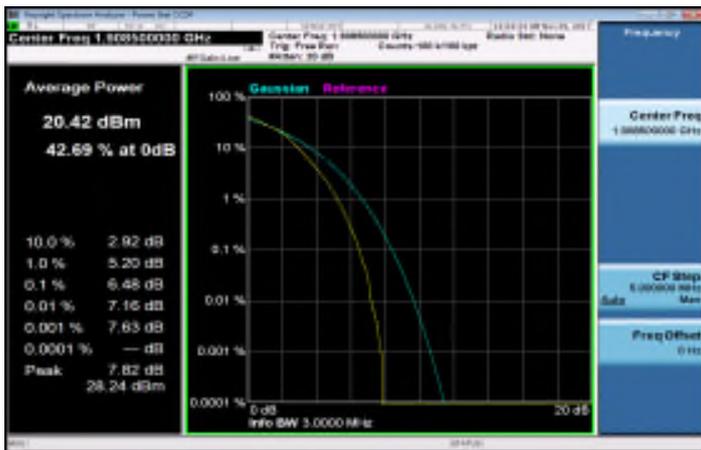
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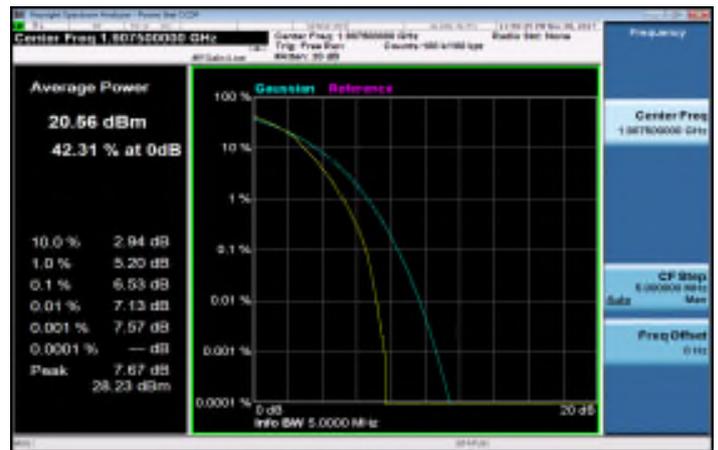
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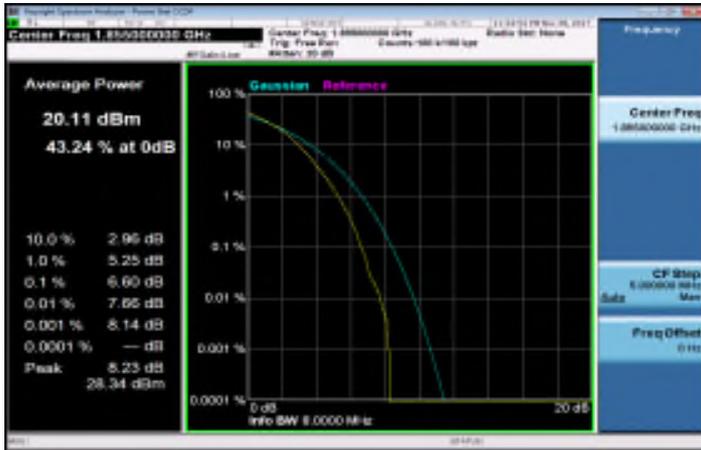
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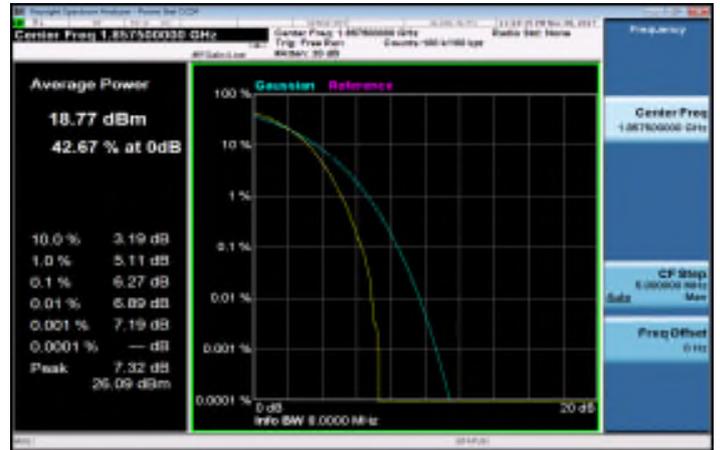
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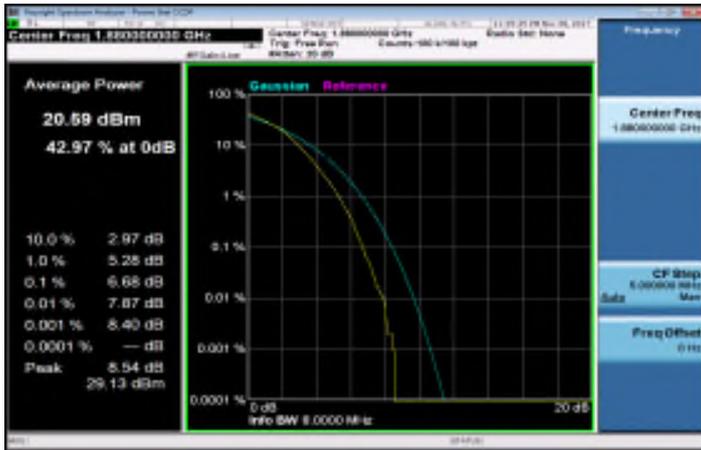
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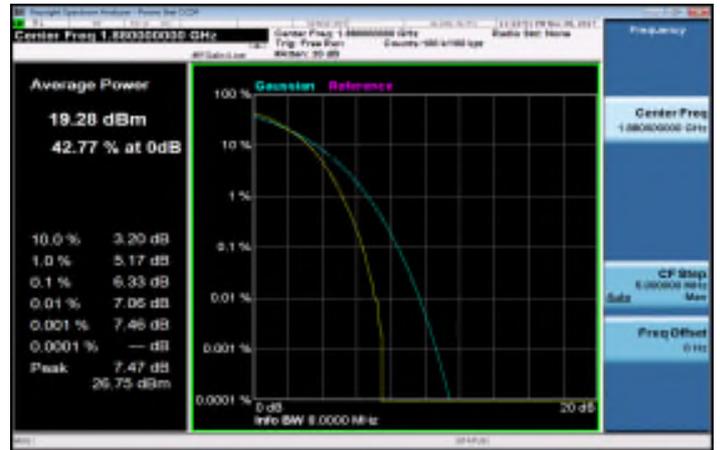
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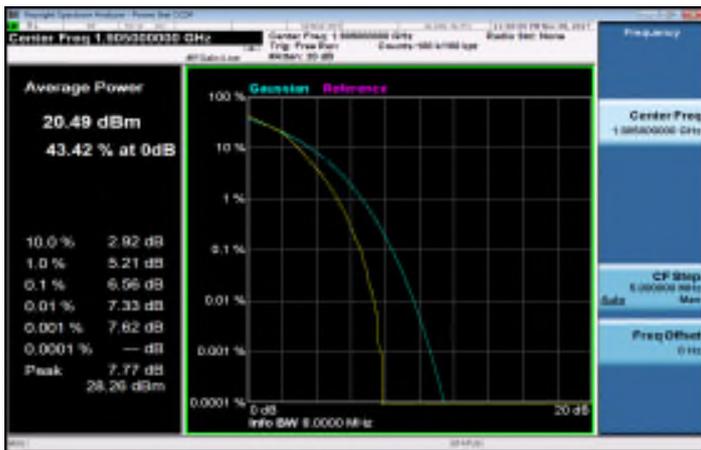
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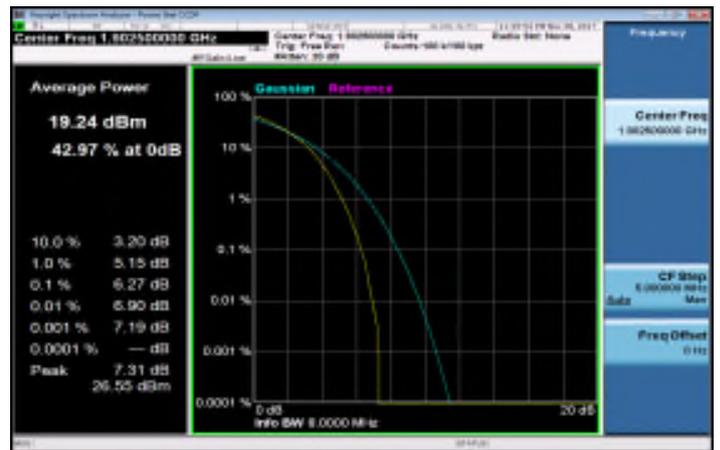
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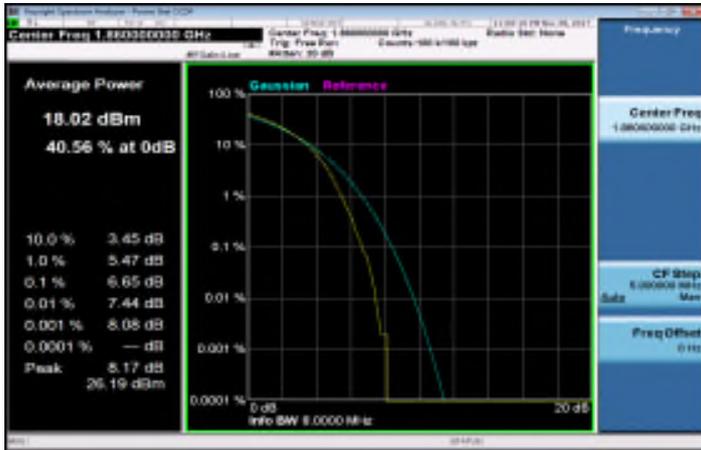
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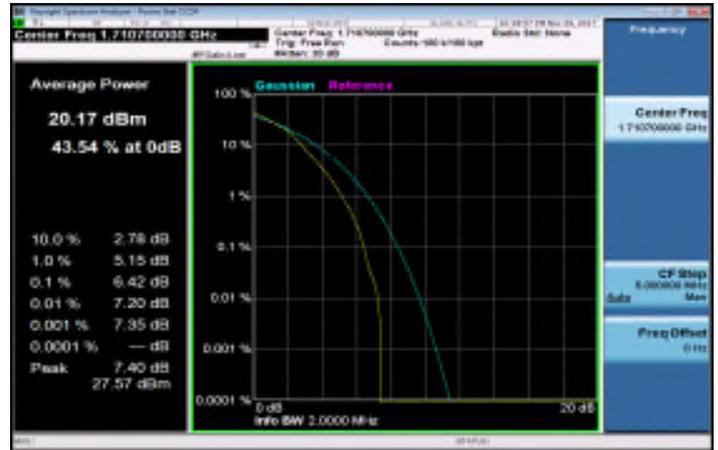
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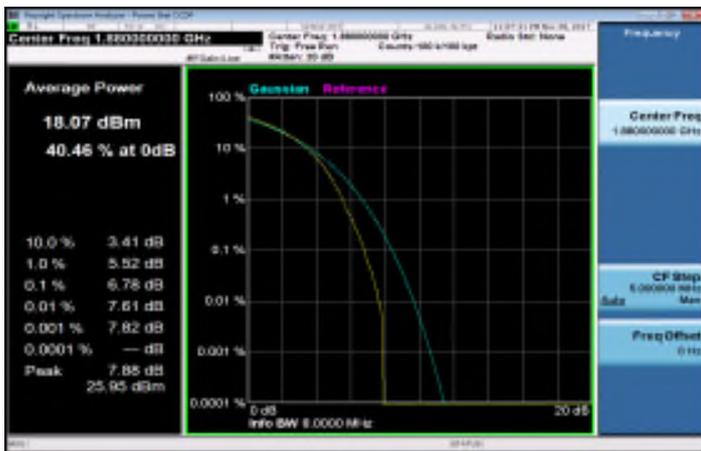
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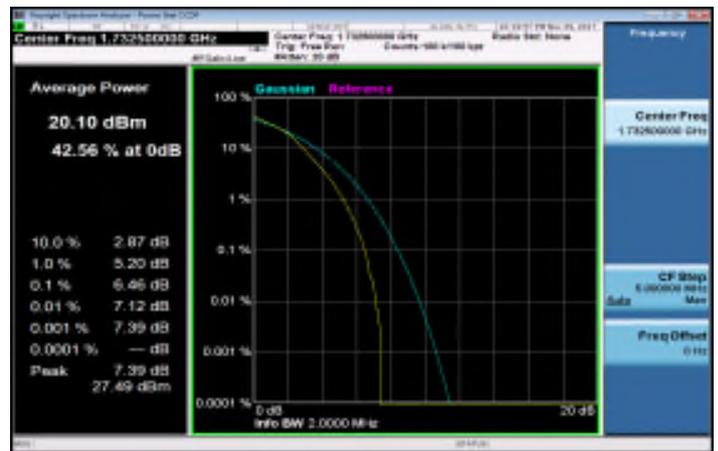
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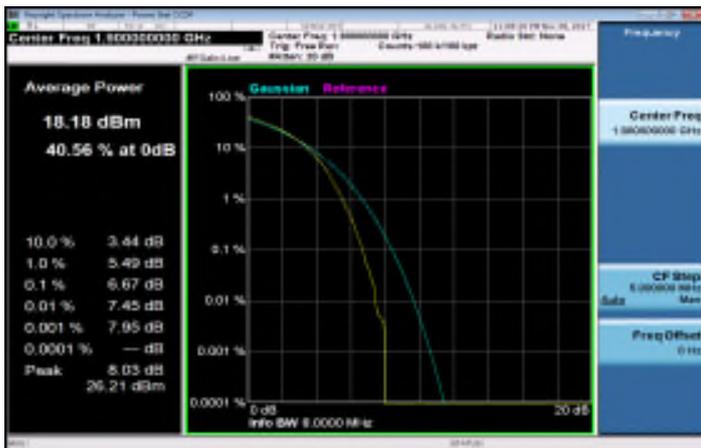
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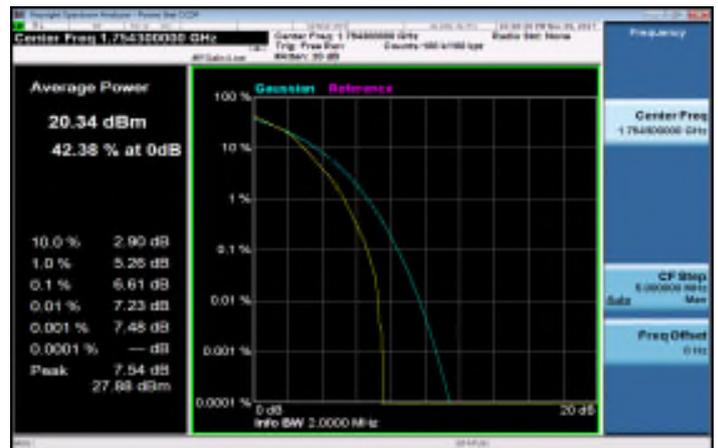
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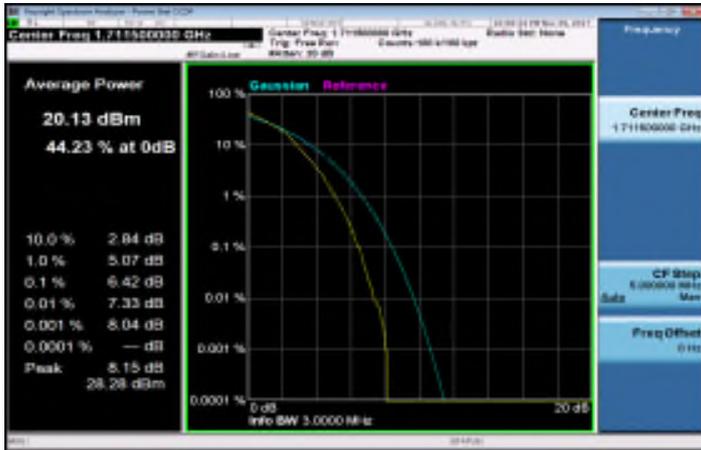
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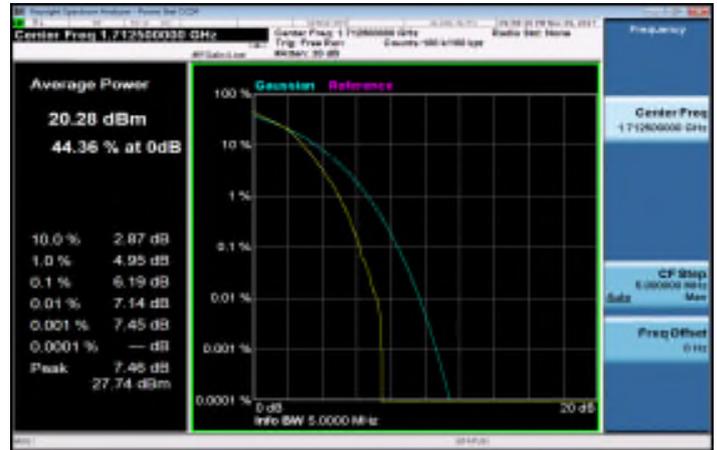
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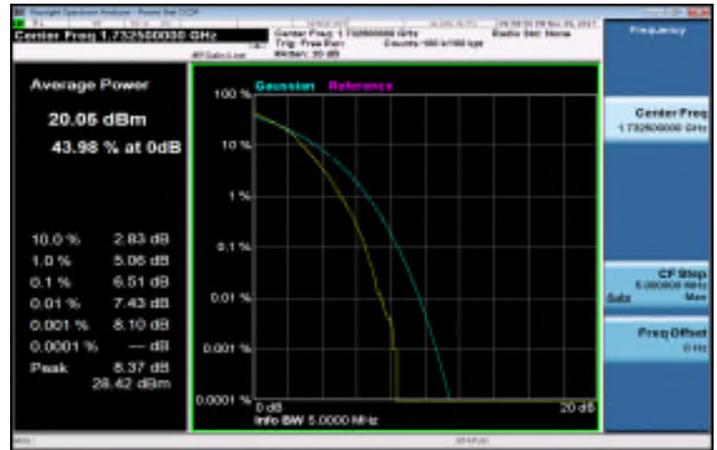
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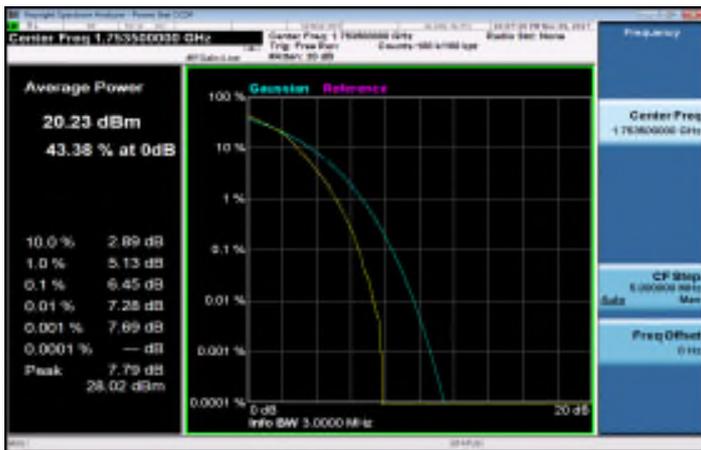
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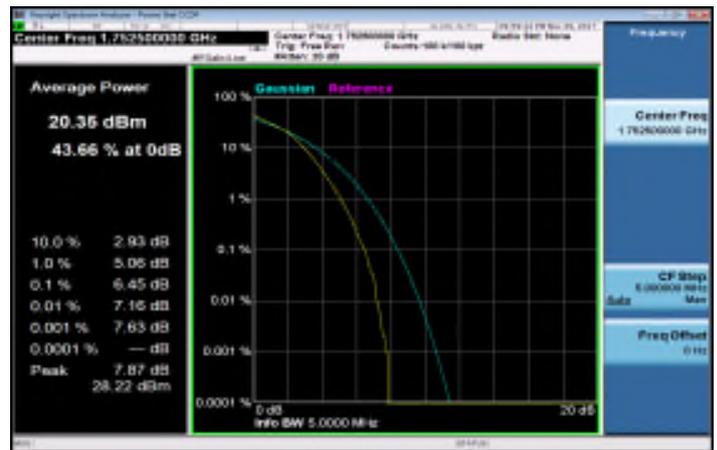
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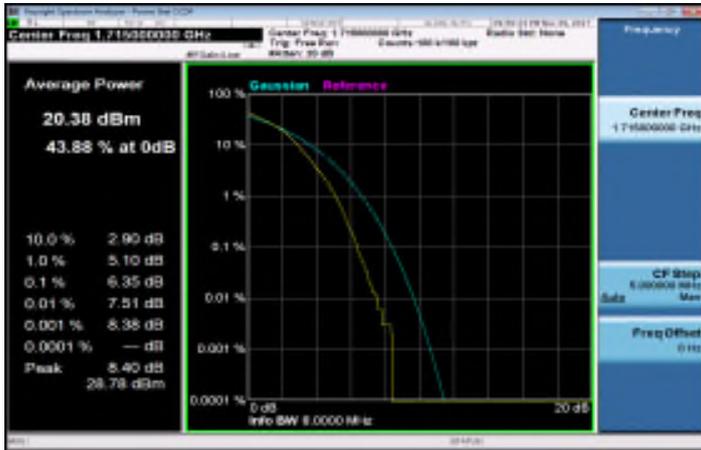
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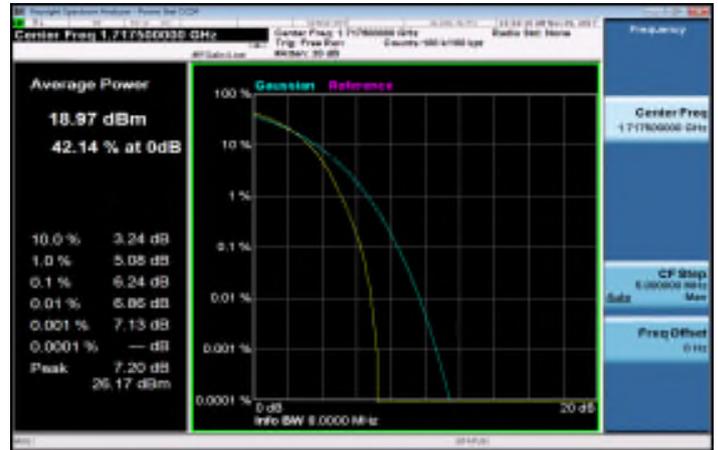
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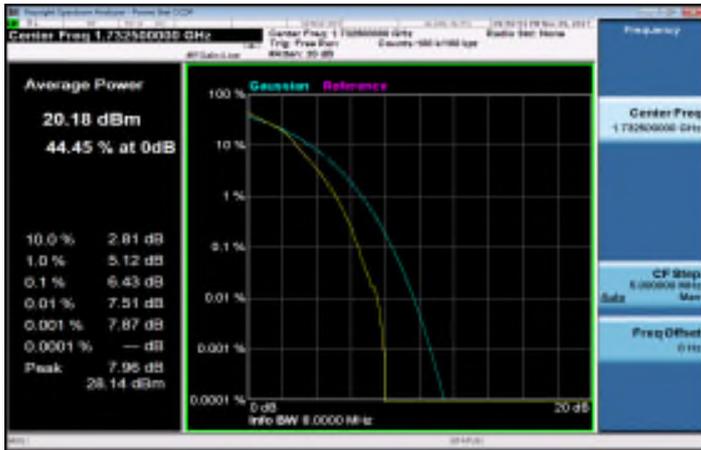
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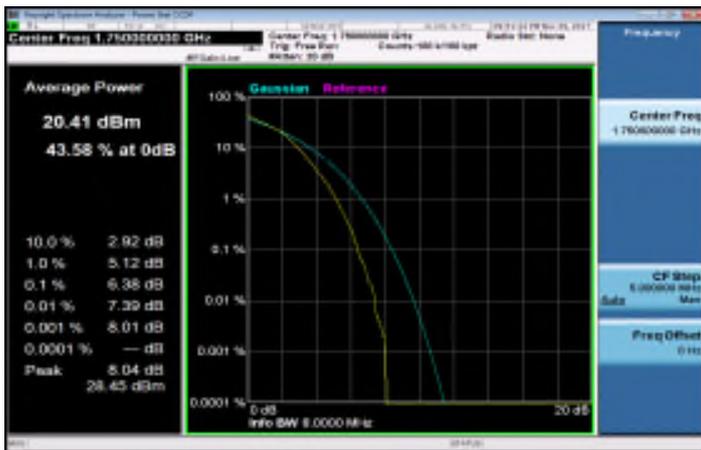
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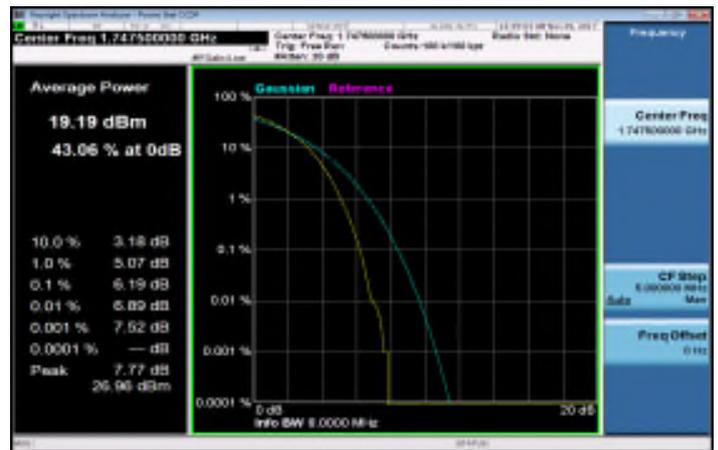
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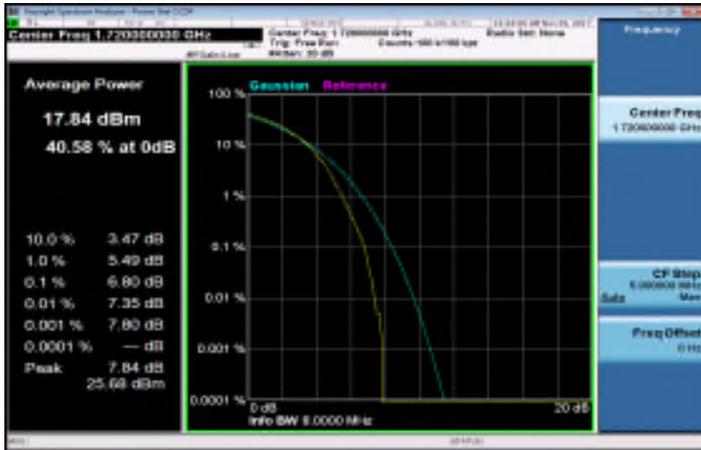


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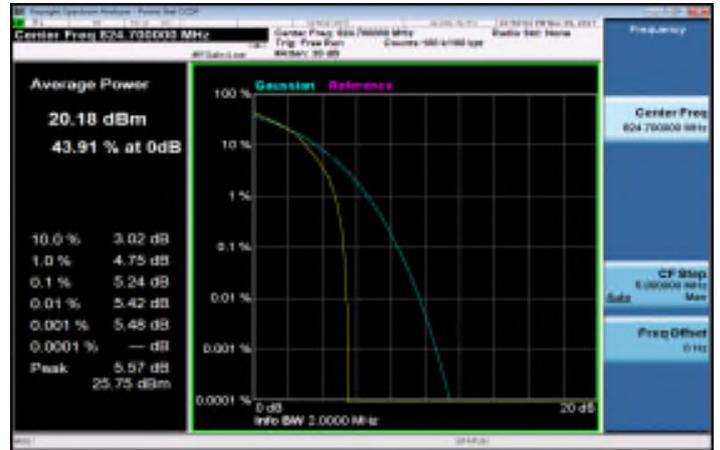
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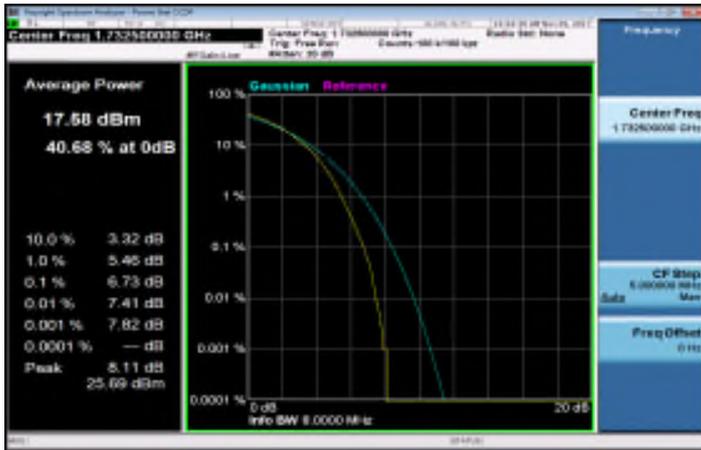
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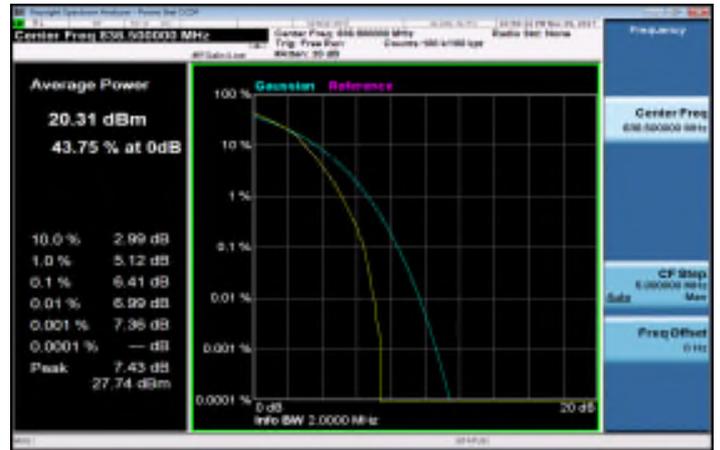
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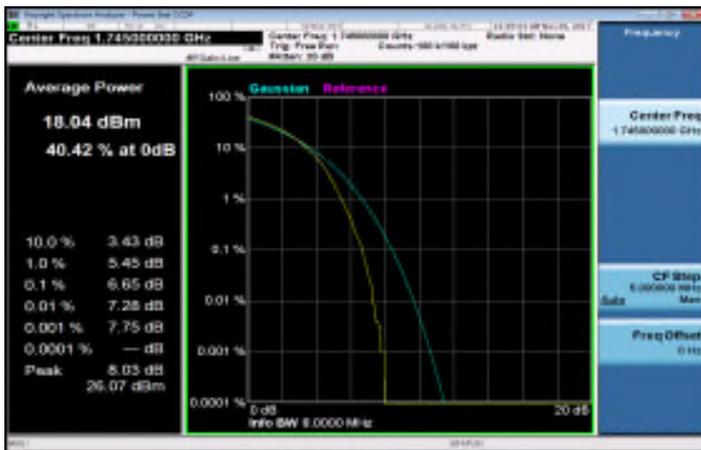
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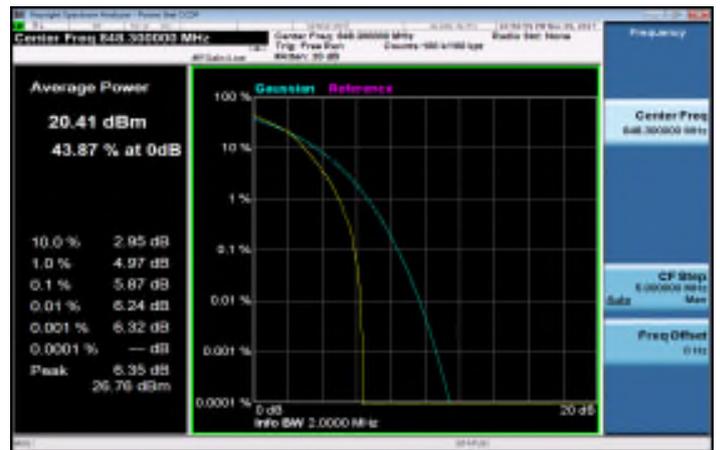
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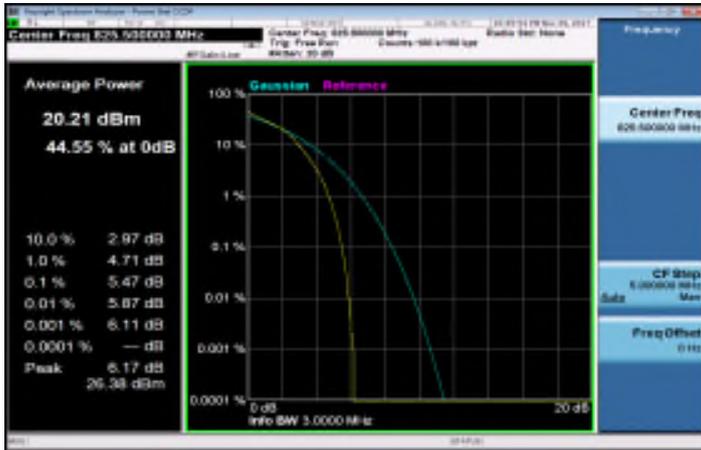
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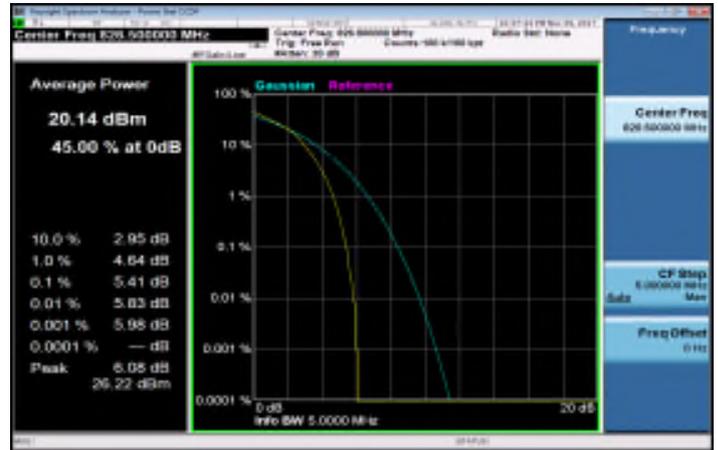
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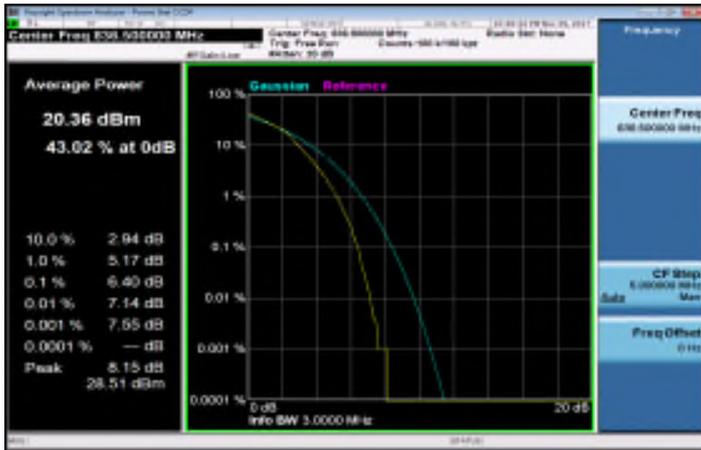
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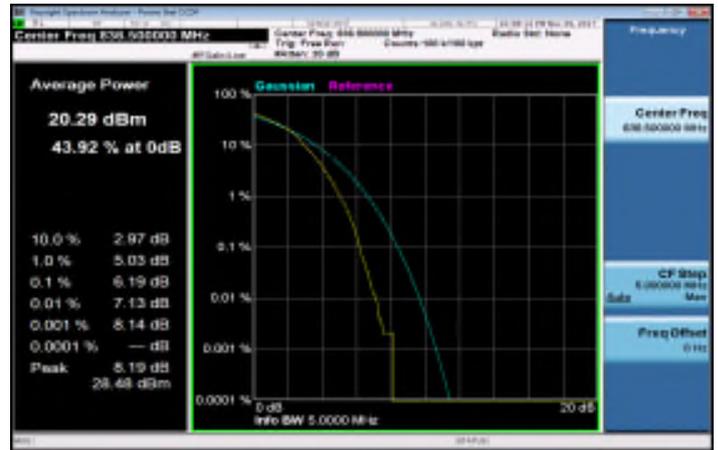
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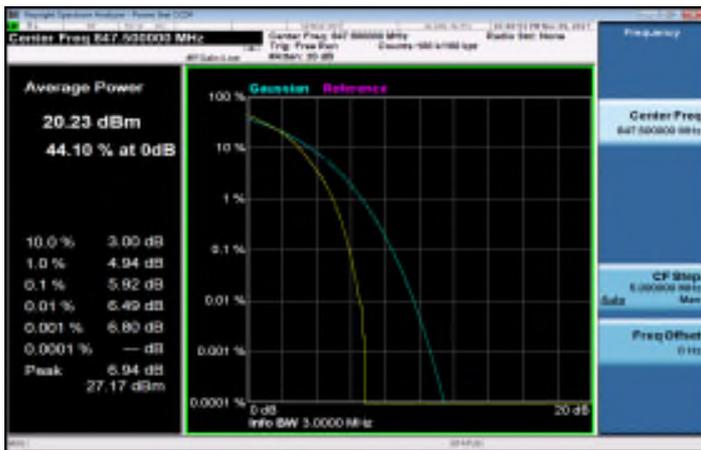
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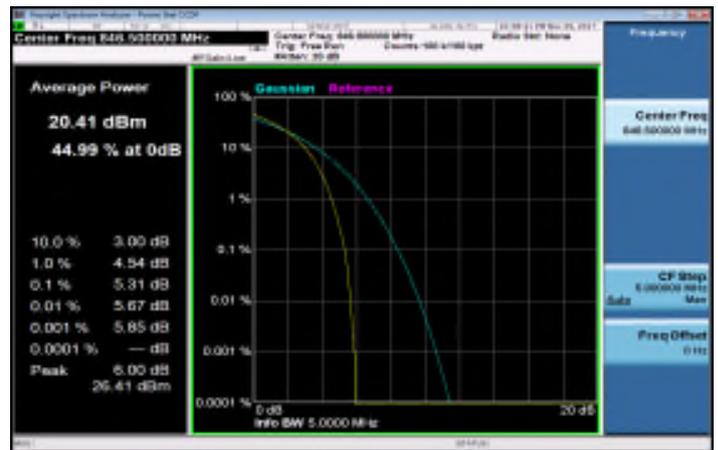
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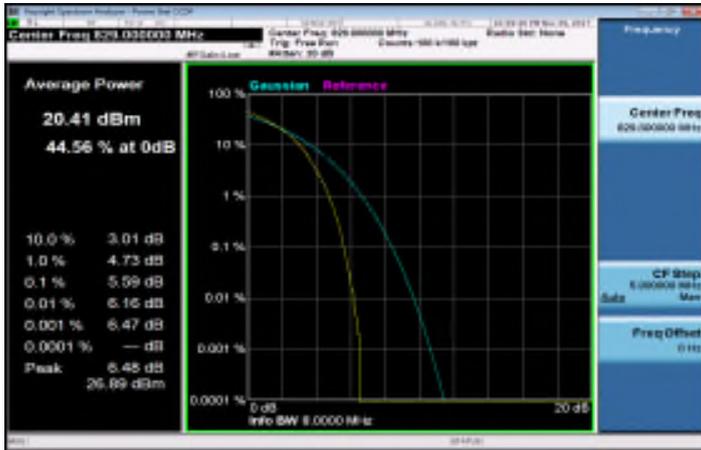
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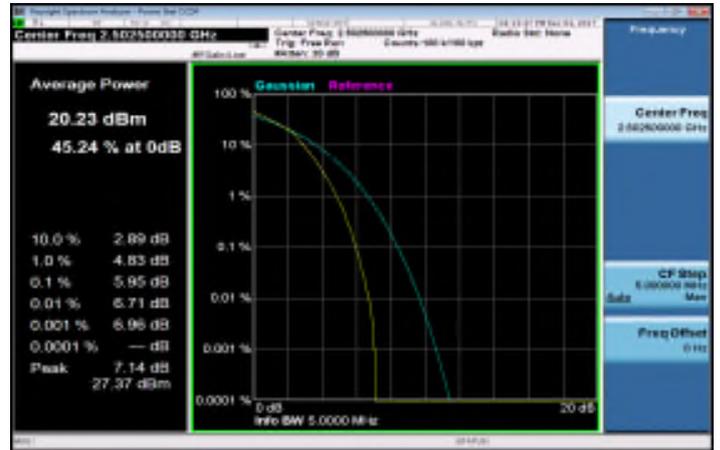
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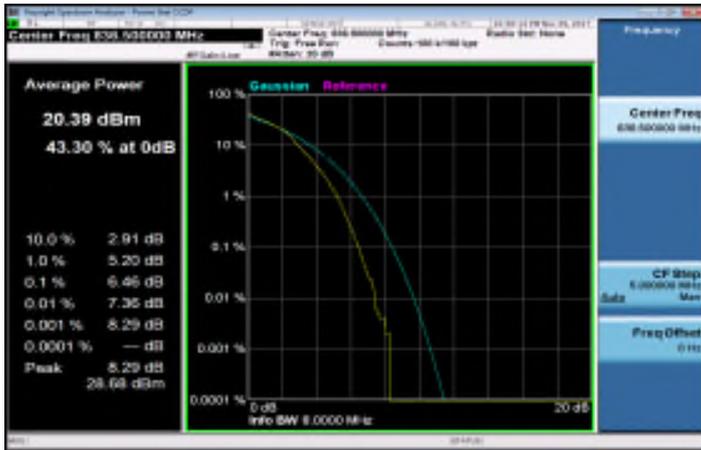
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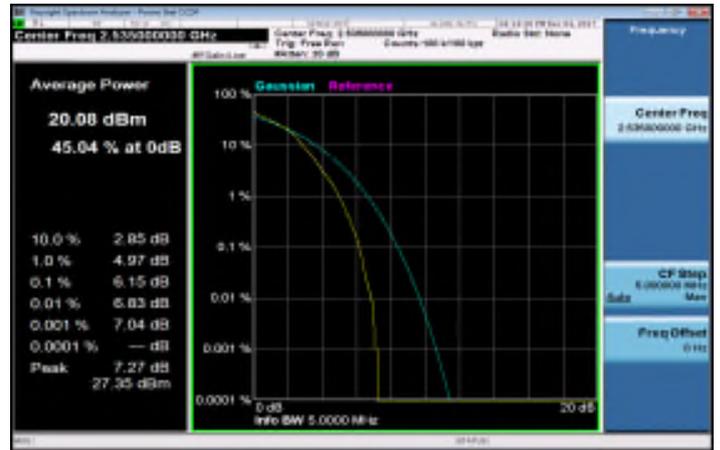
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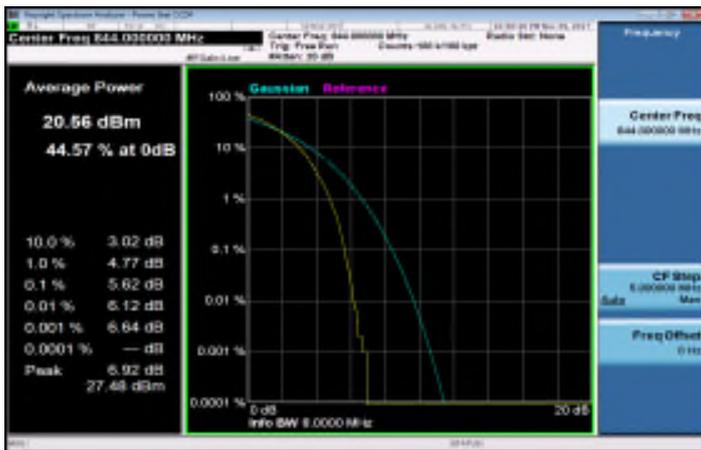
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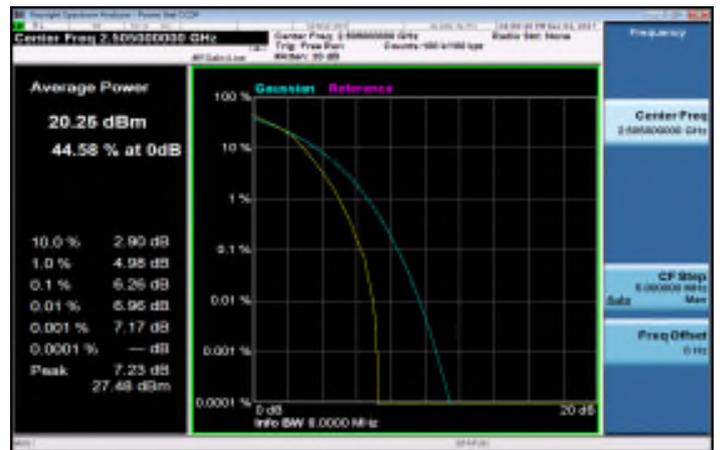
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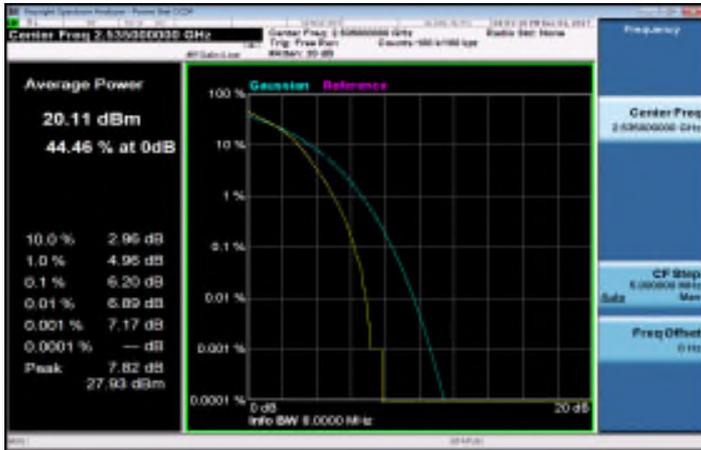
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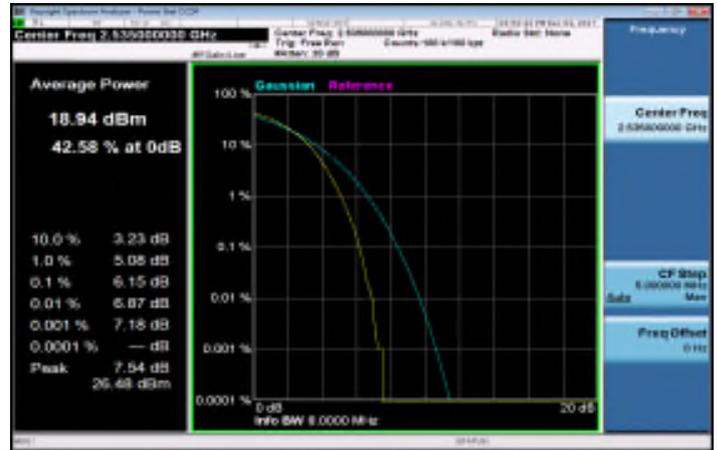
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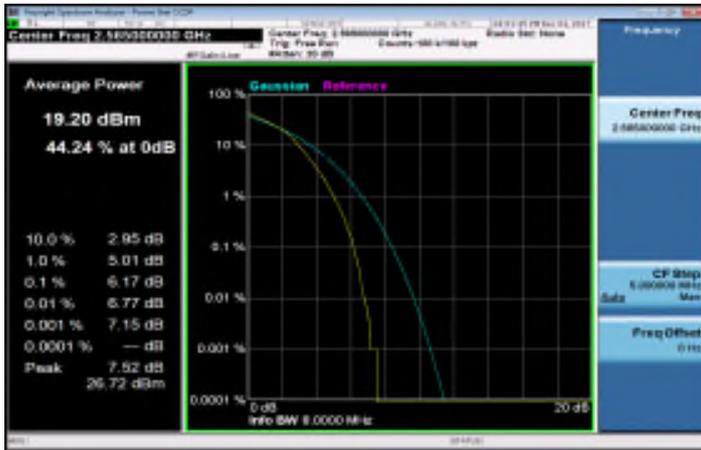
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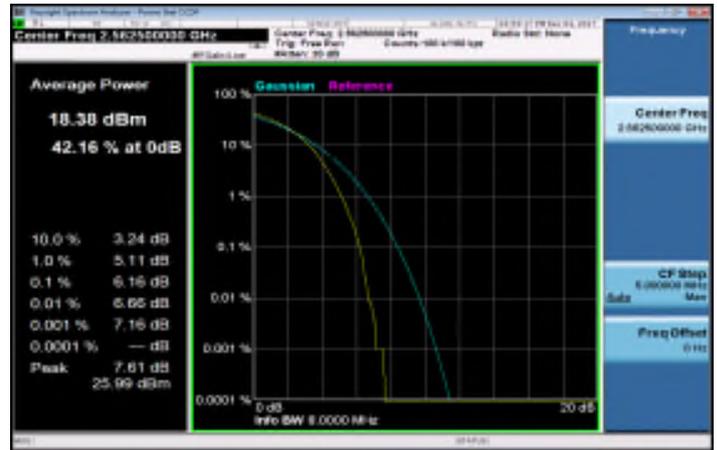
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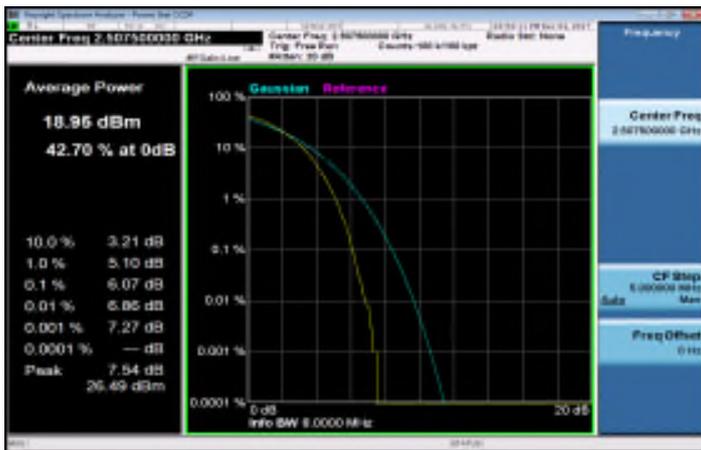
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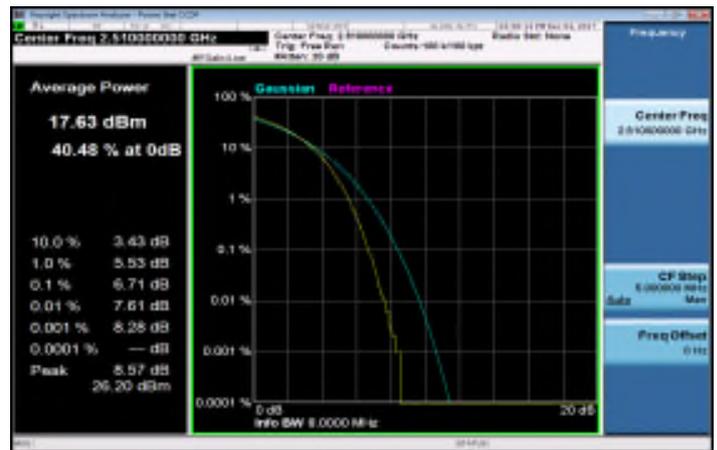
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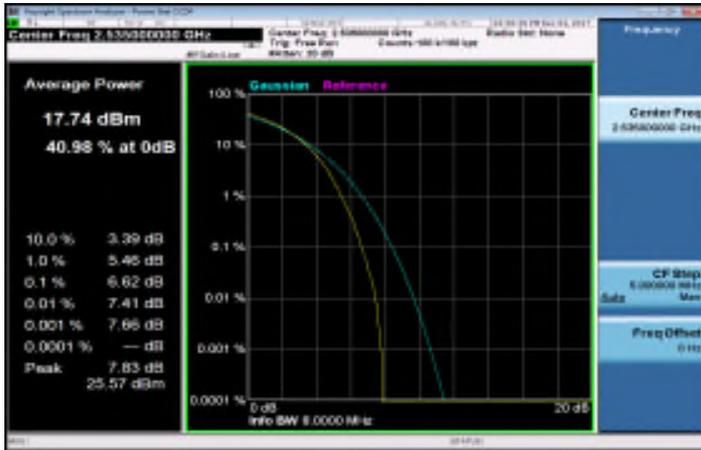
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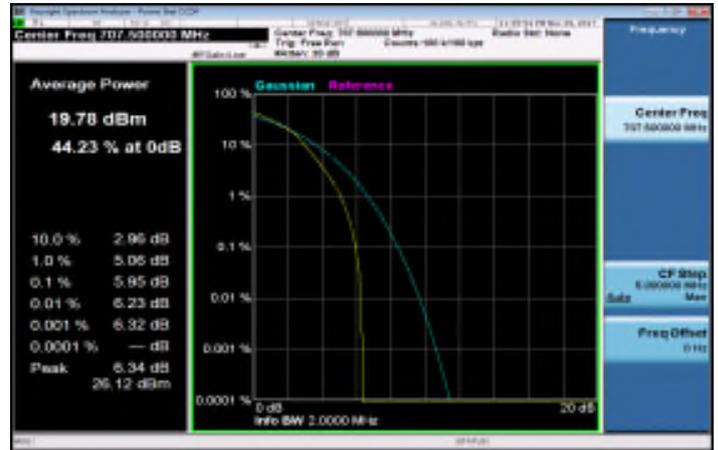
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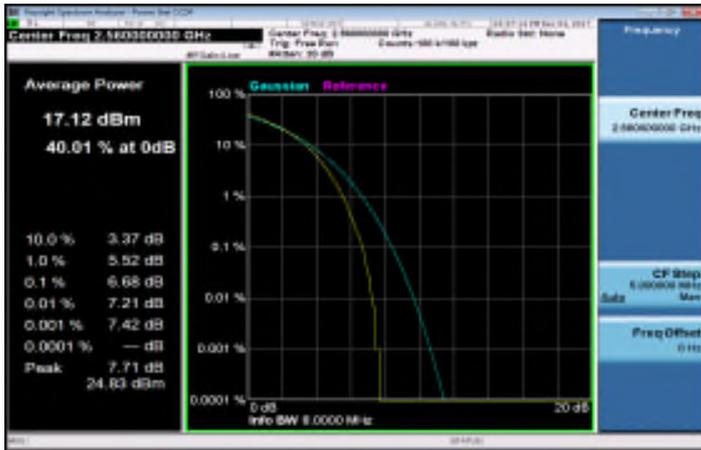
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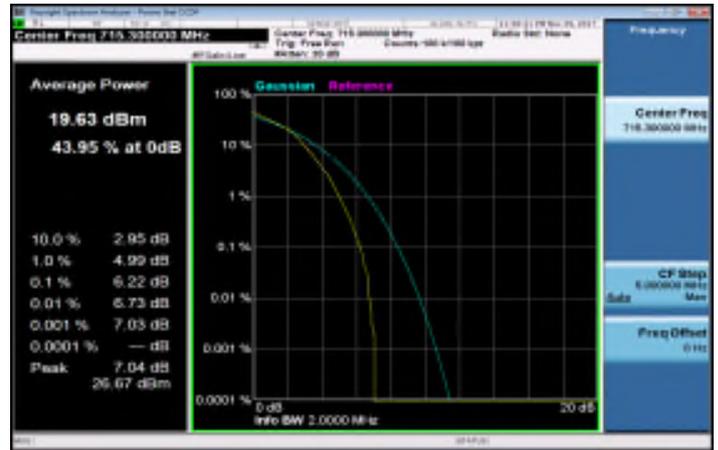
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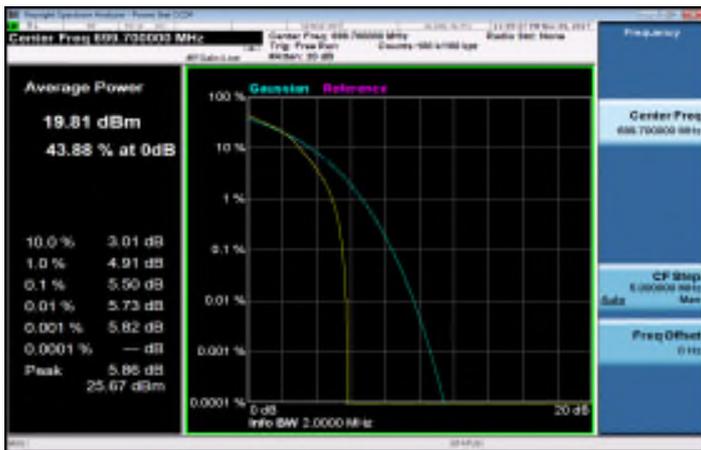
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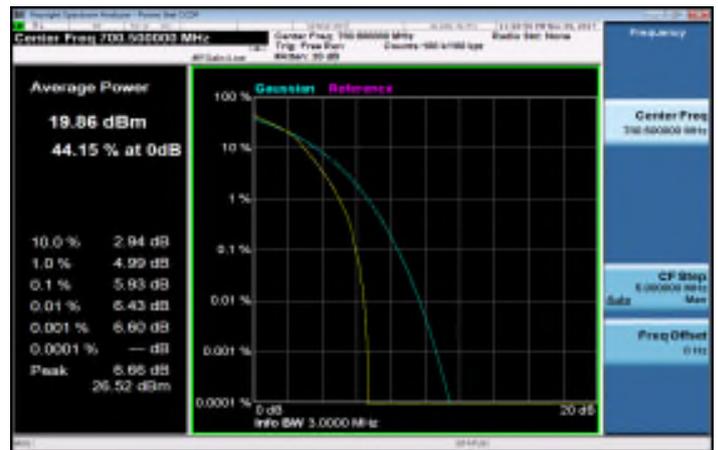
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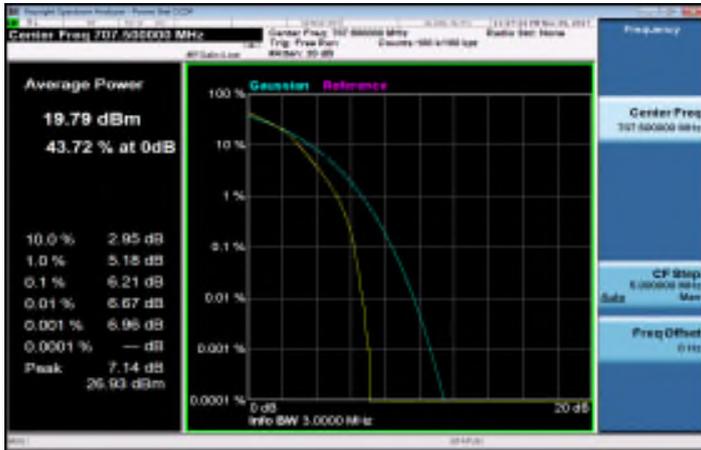
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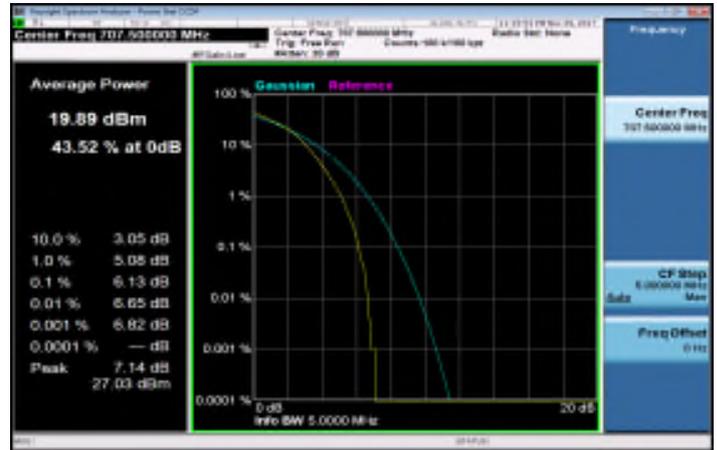
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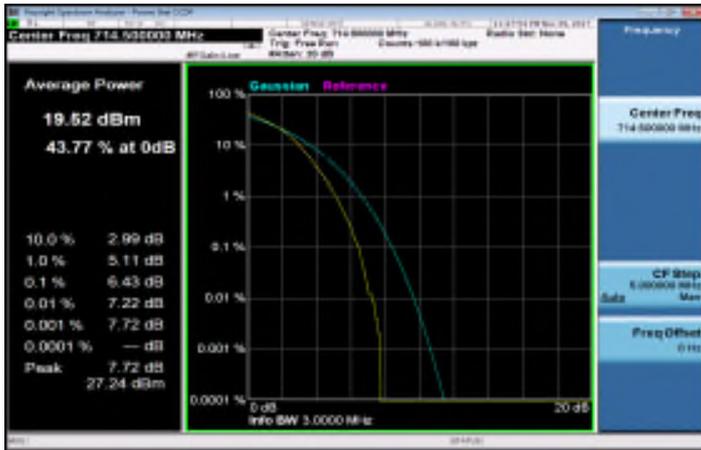
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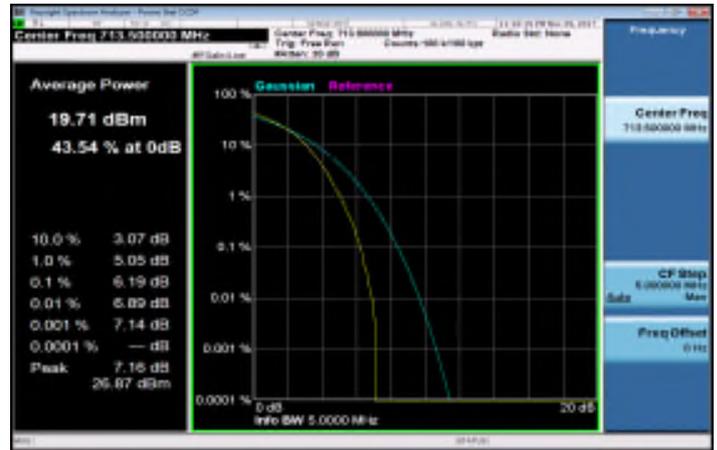
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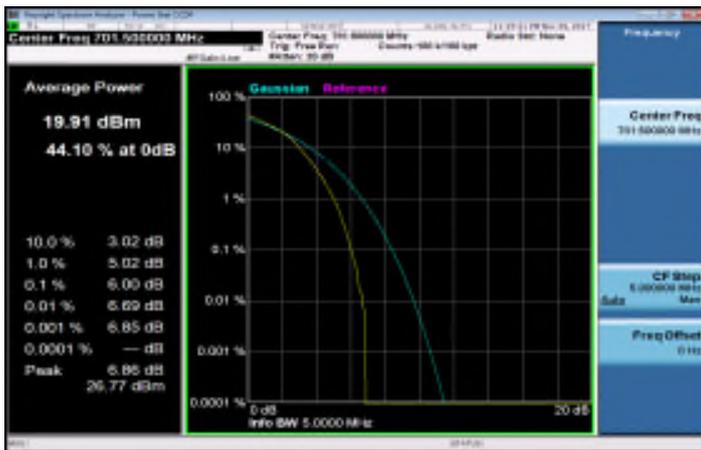
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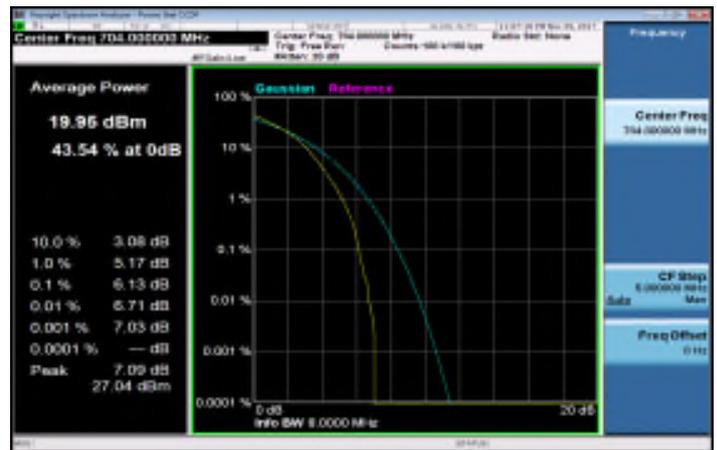
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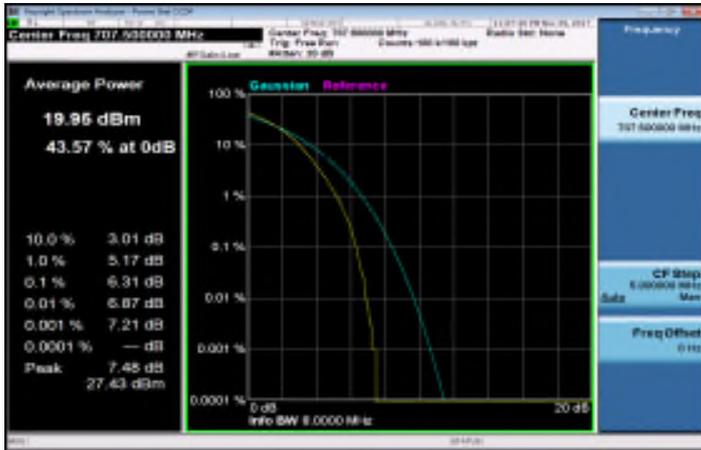


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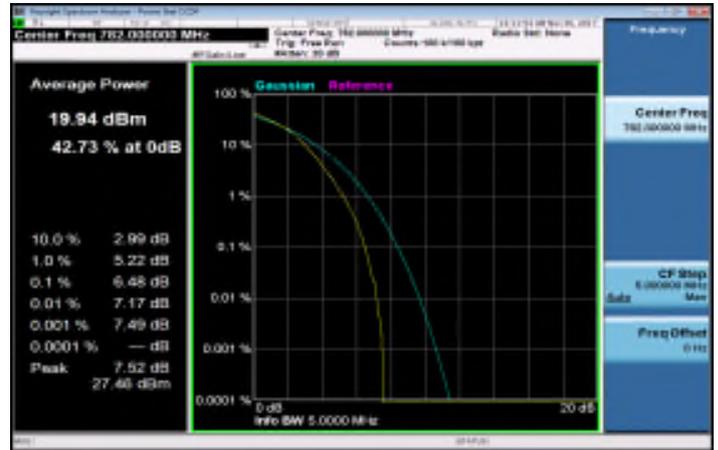
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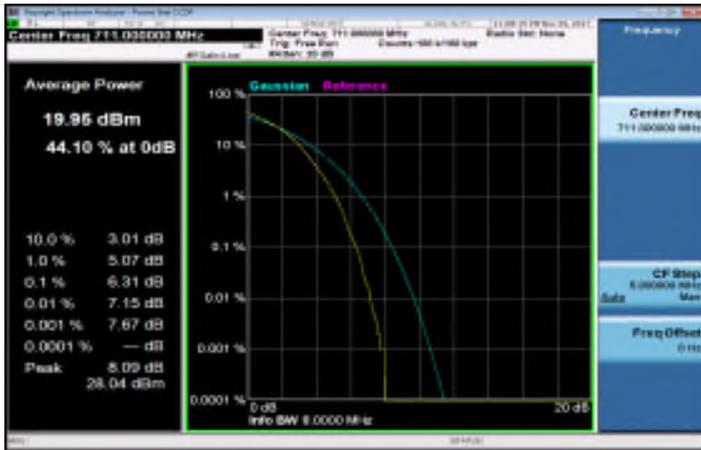
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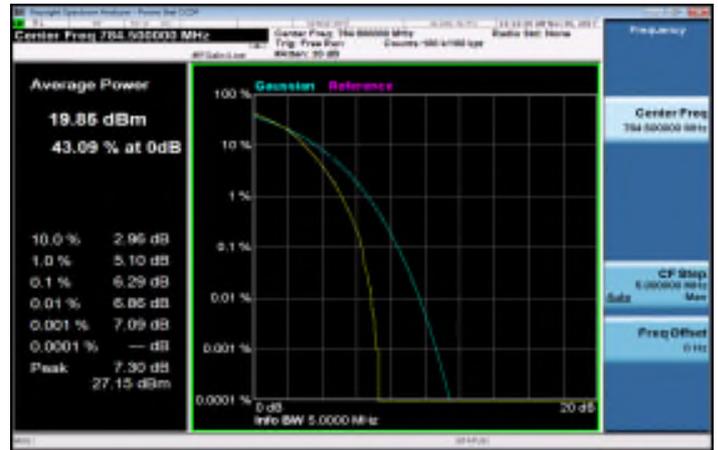
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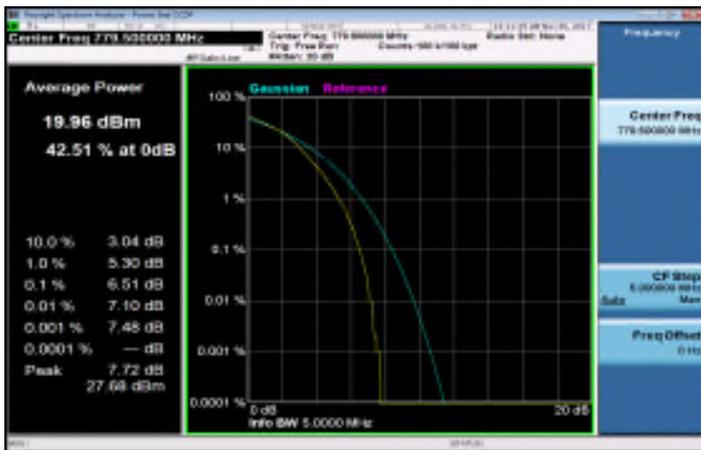
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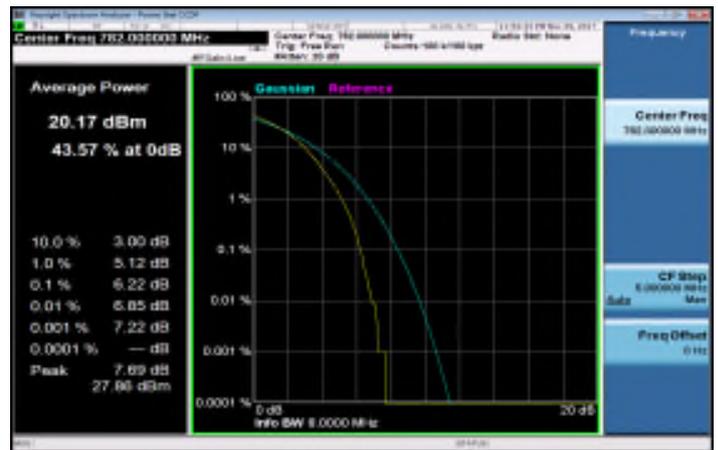
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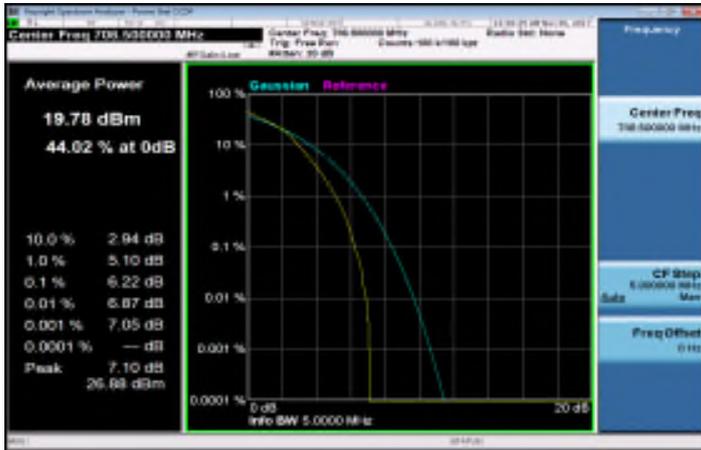


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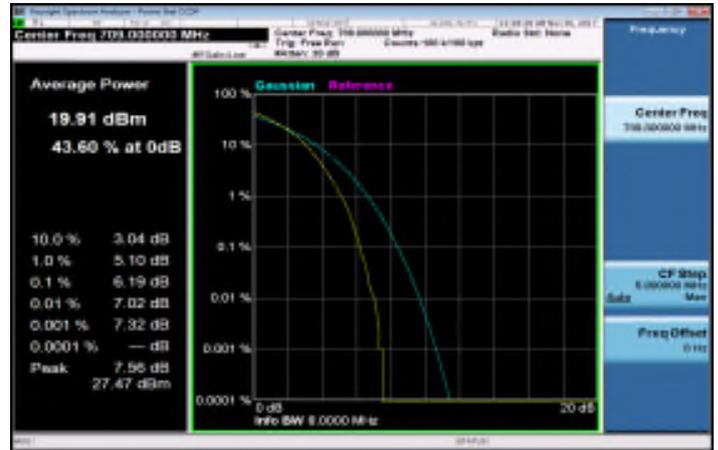
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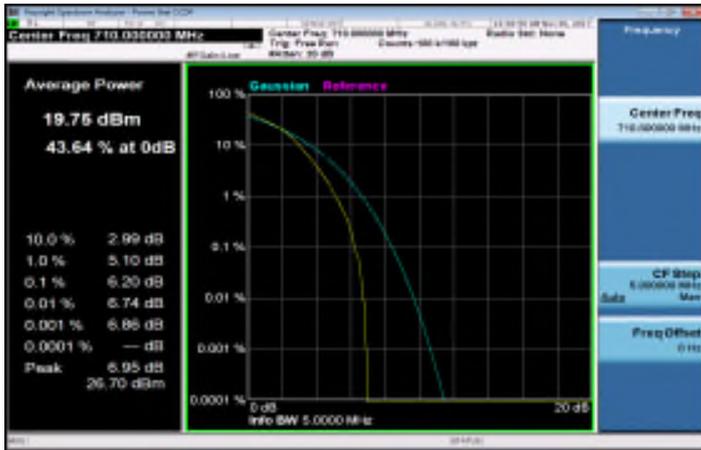
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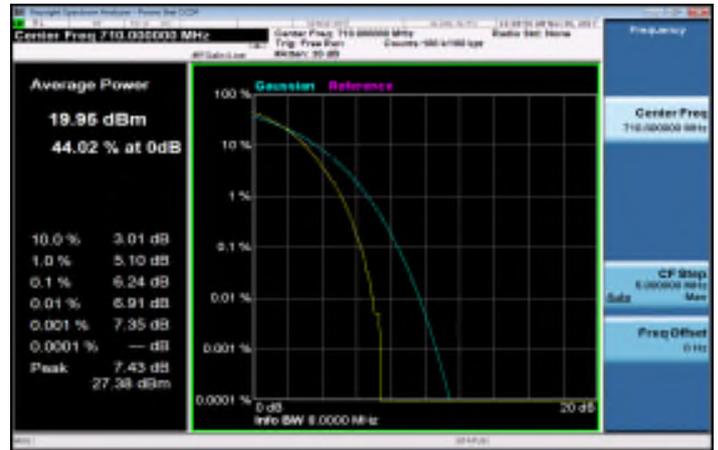
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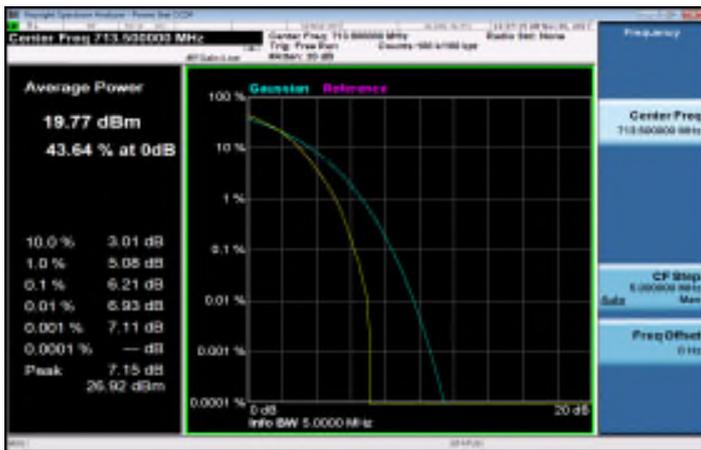
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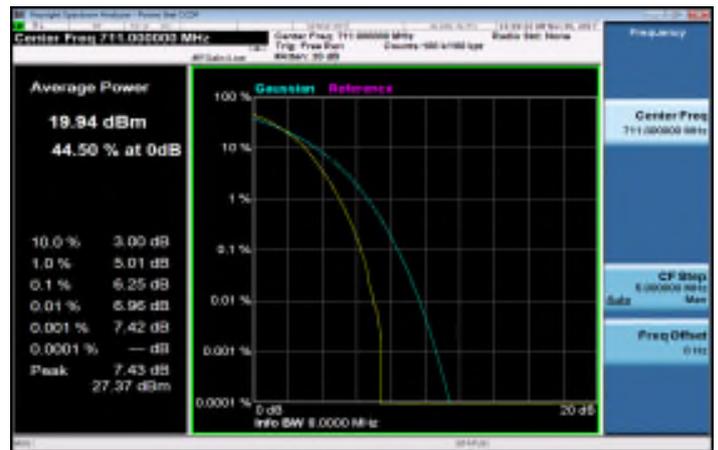
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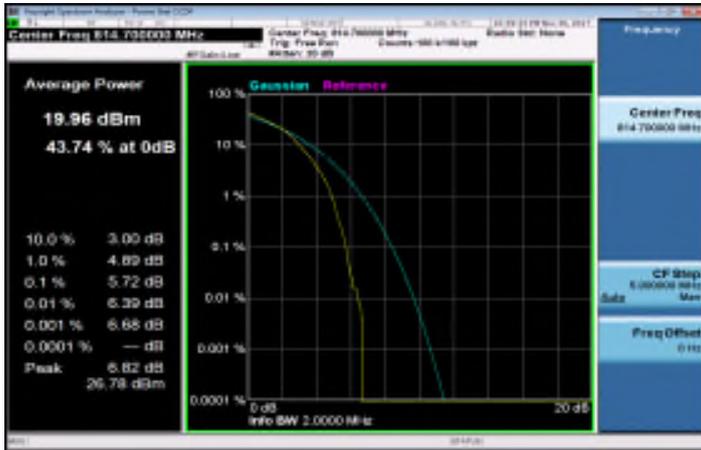
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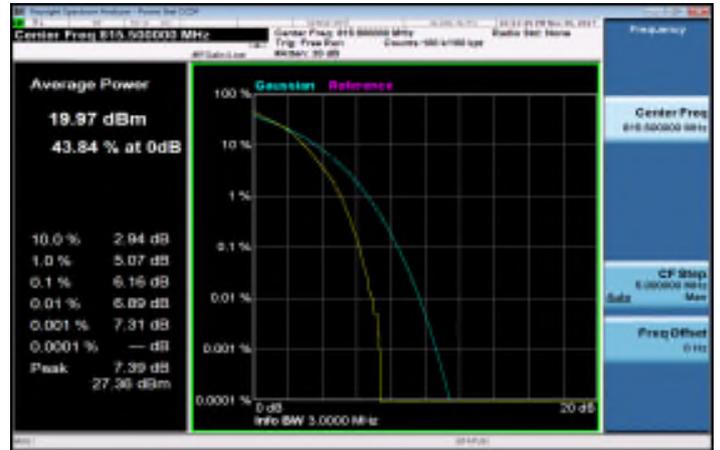
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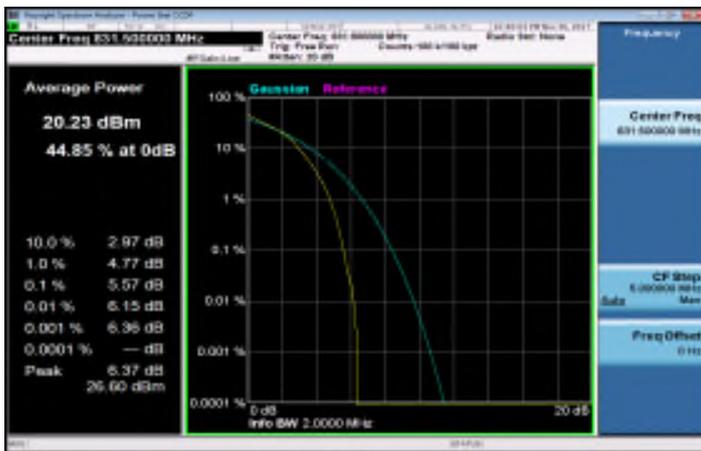
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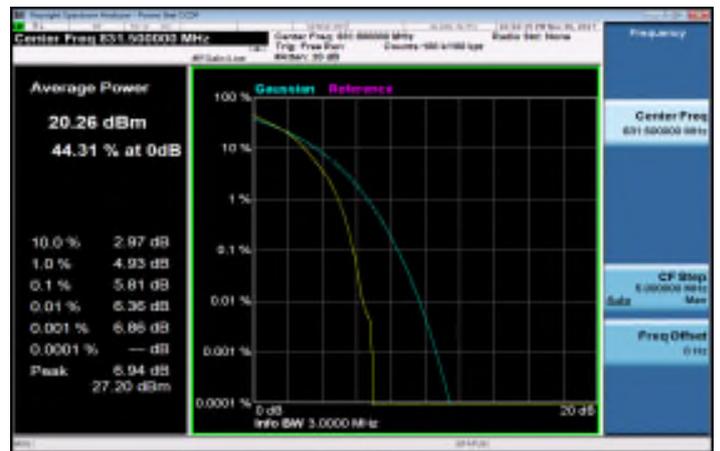
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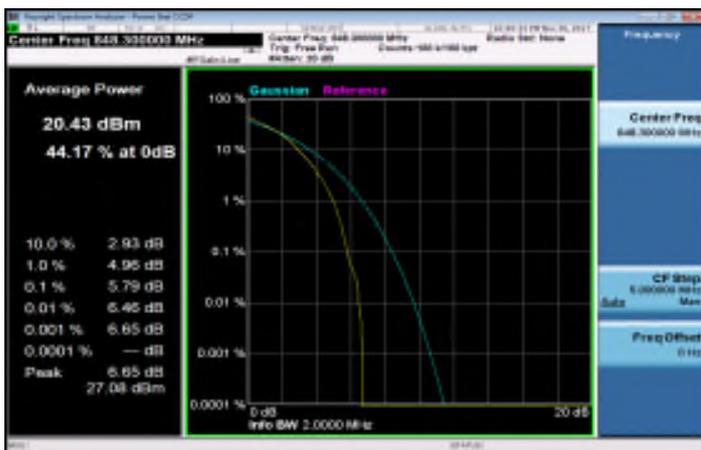
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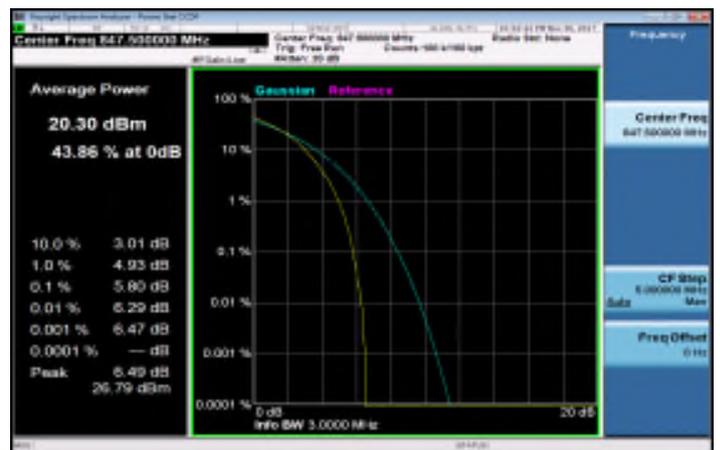
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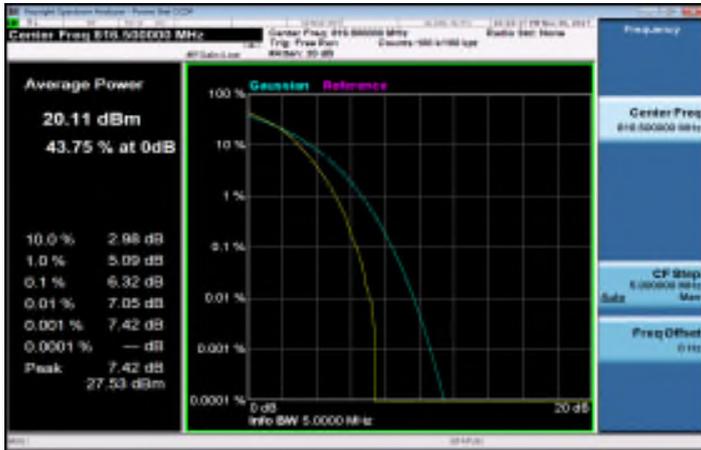
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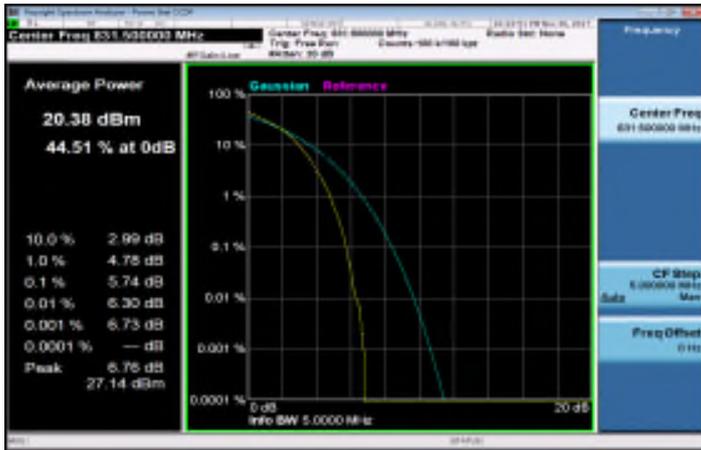
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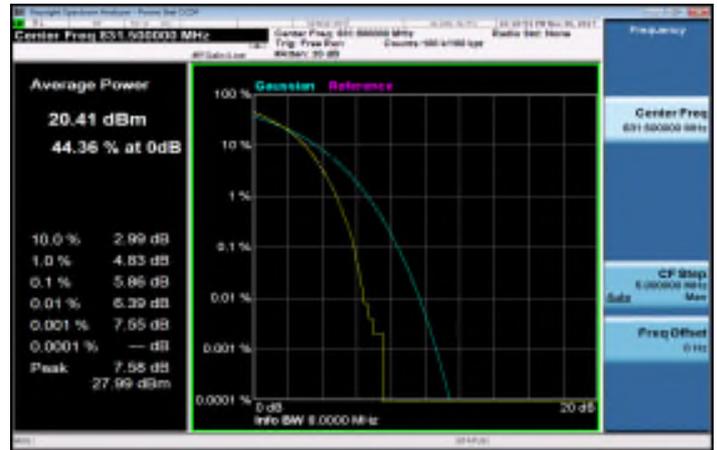
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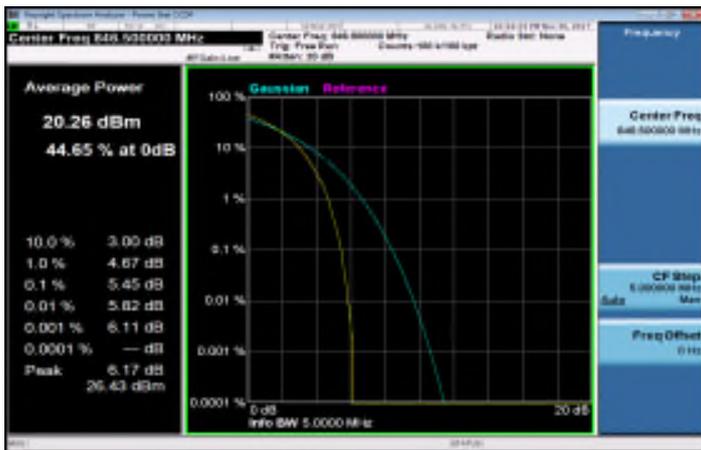
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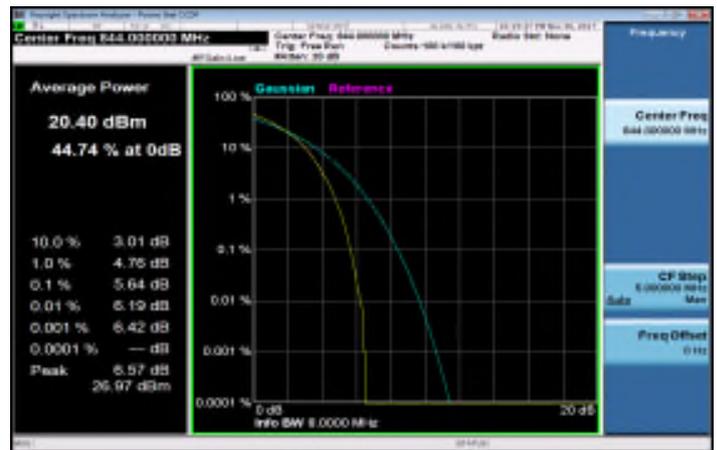
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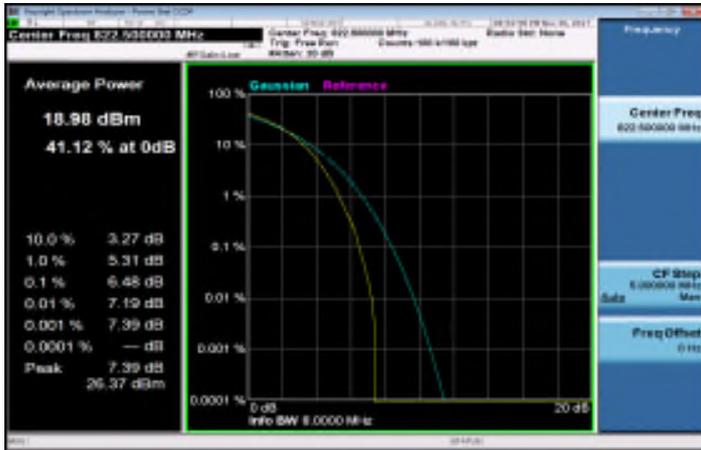


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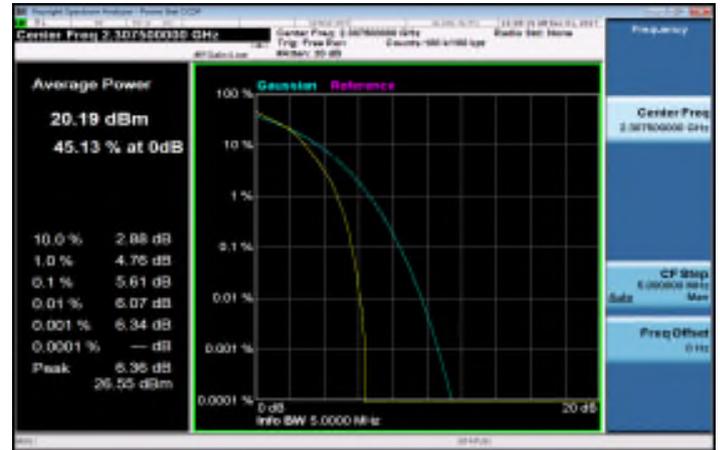
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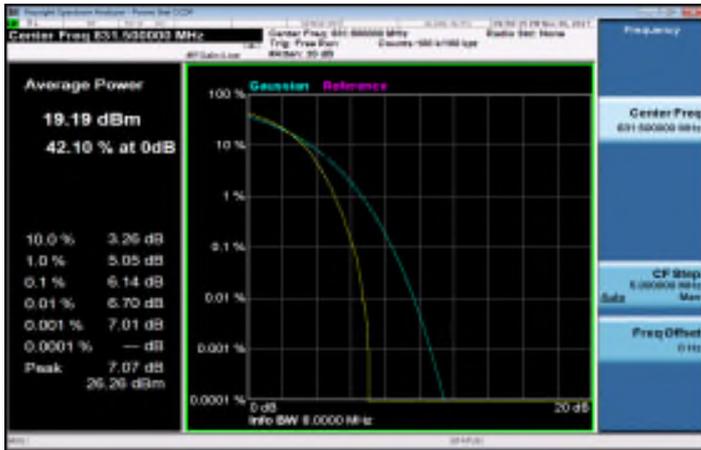
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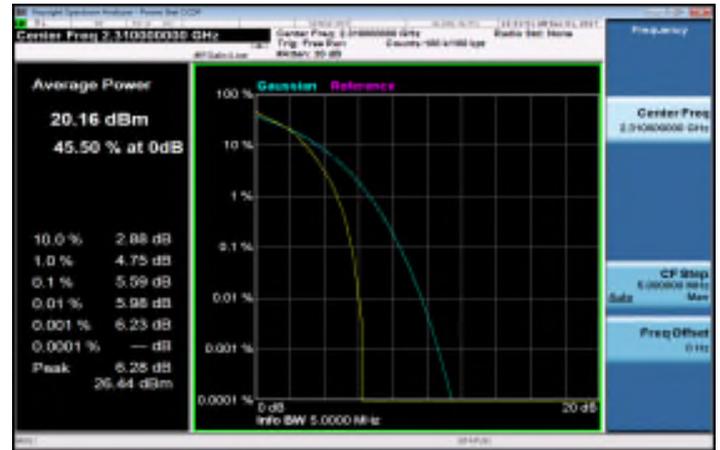
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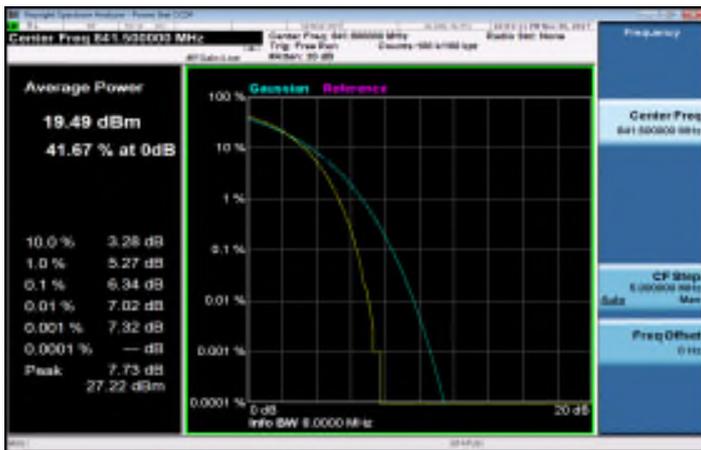
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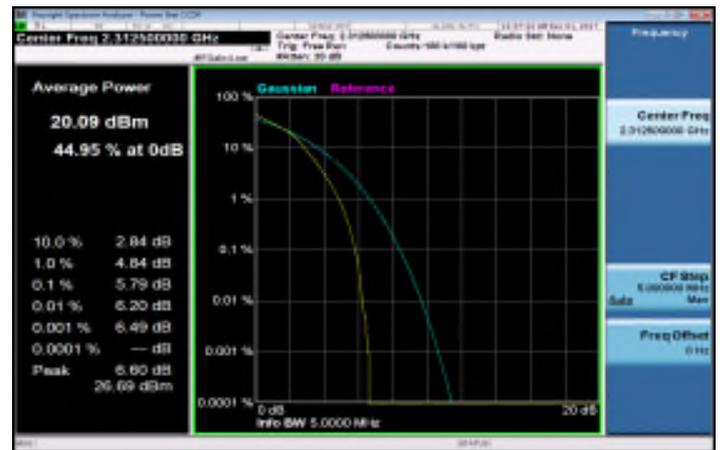
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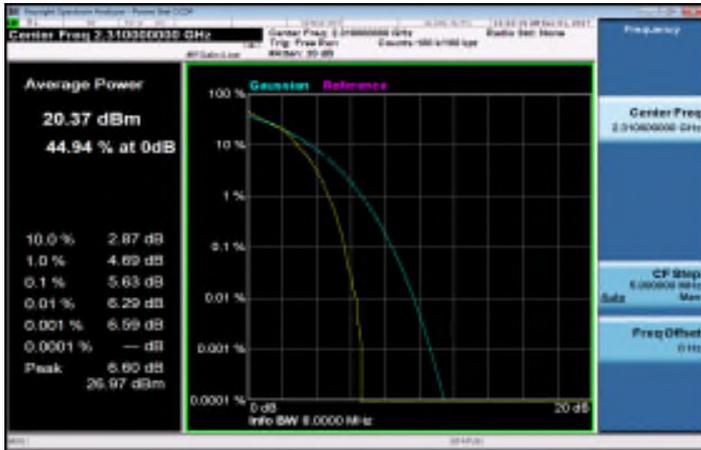
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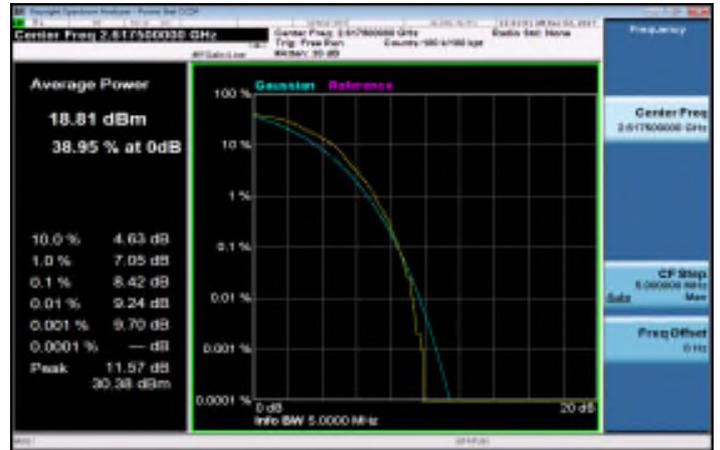
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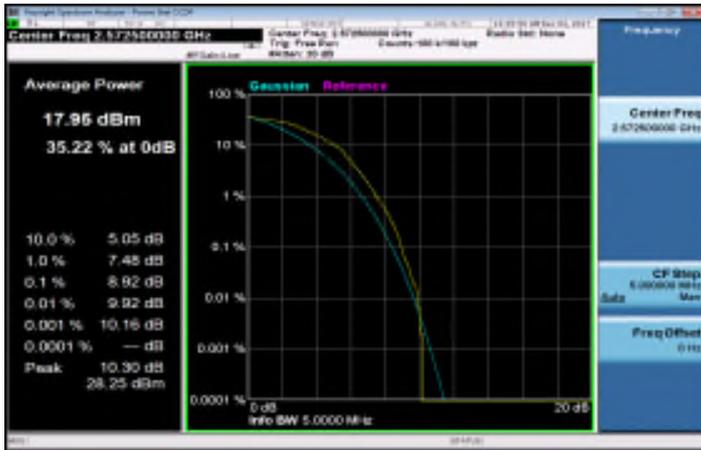
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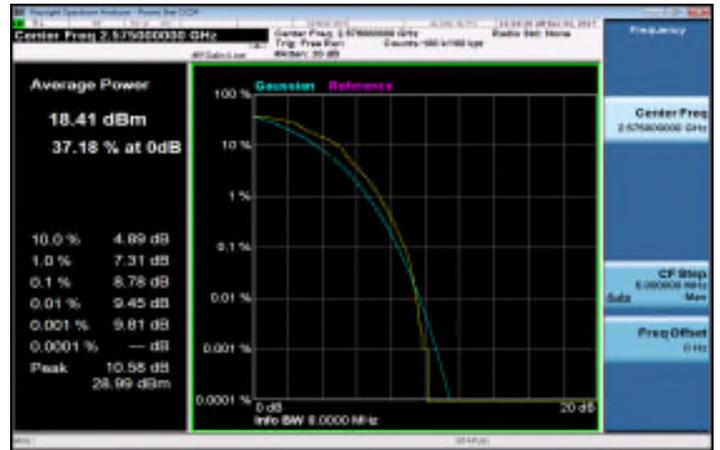
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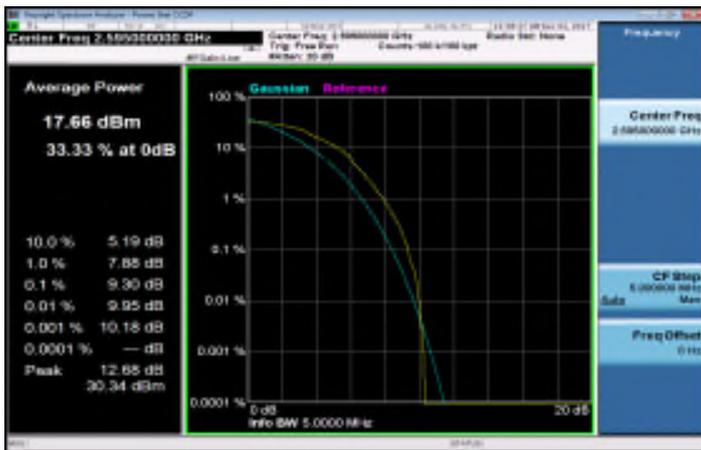
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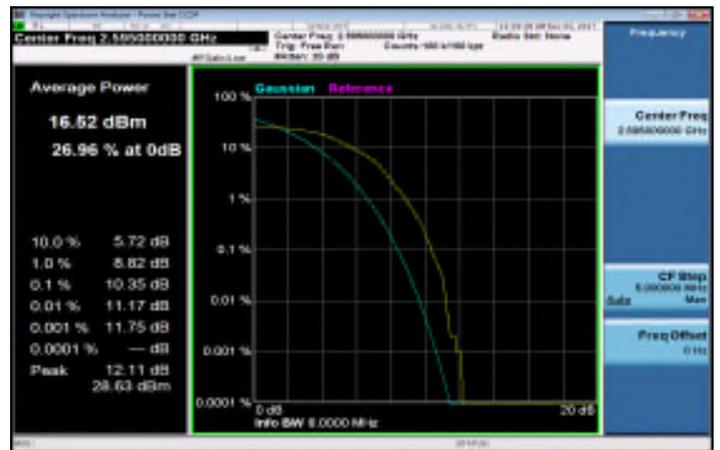
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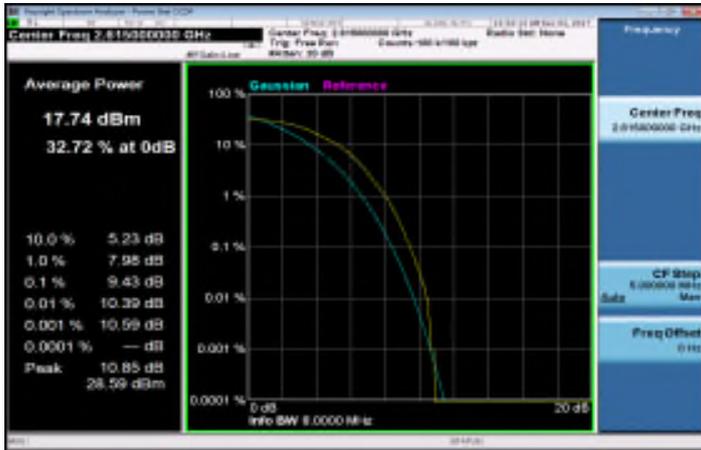
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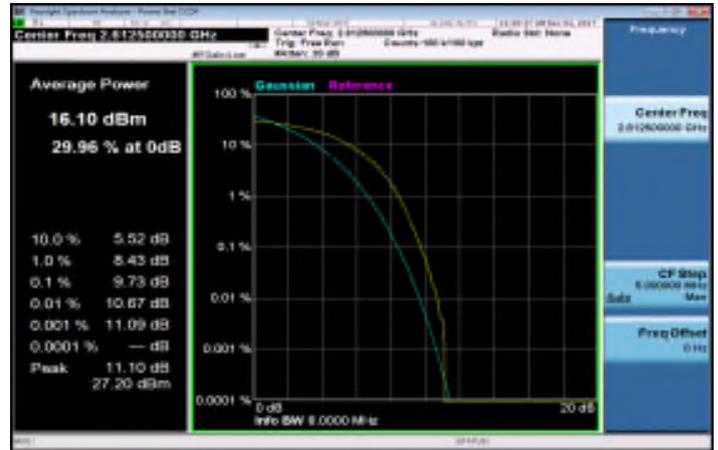
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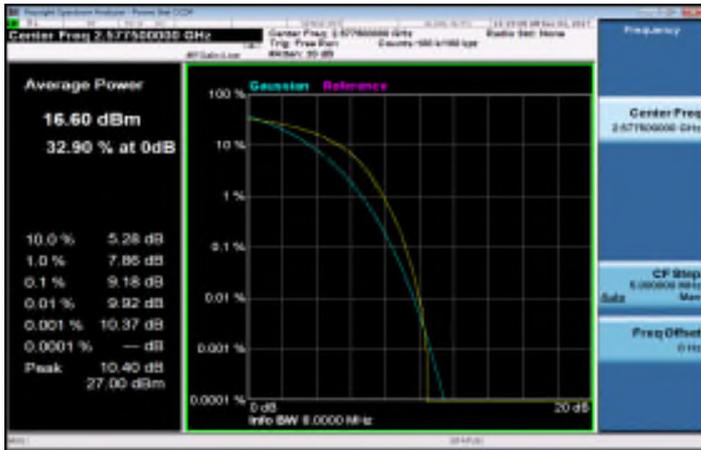
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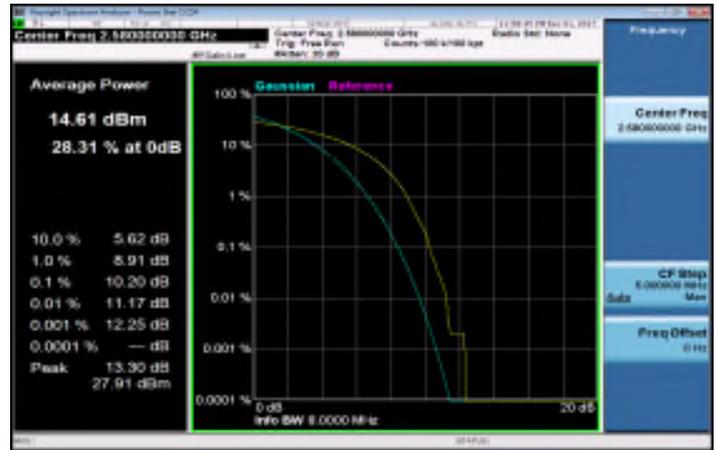
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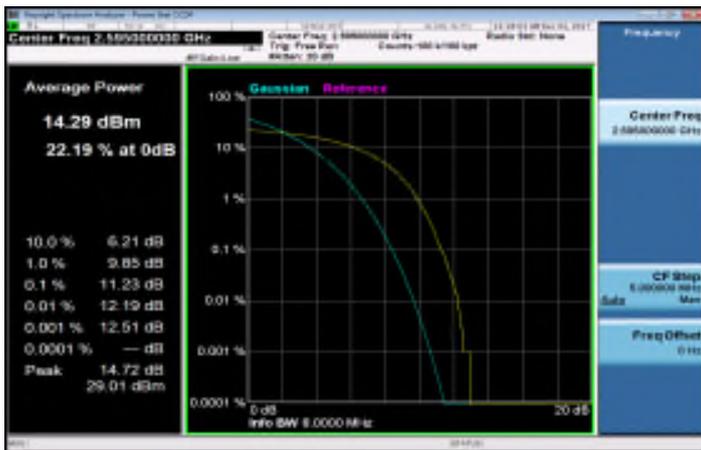
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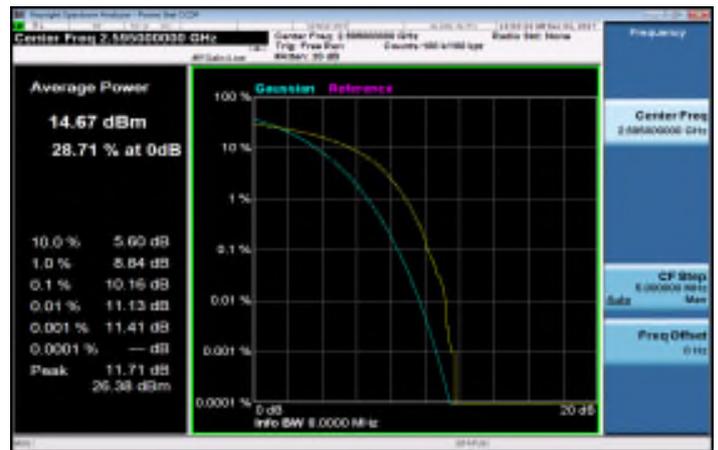
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LTE\_Band38\_20MHz\_16QAM\_100\_0\_MidCH38000



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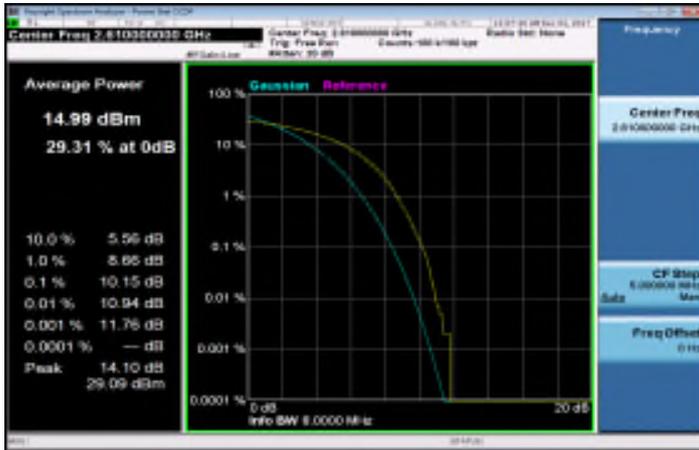
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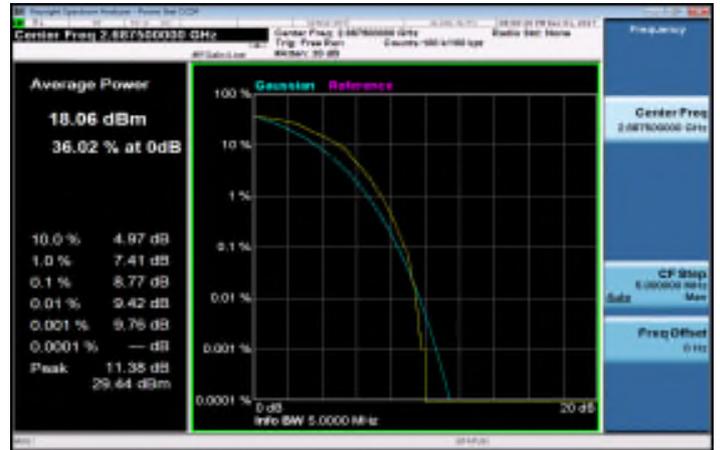
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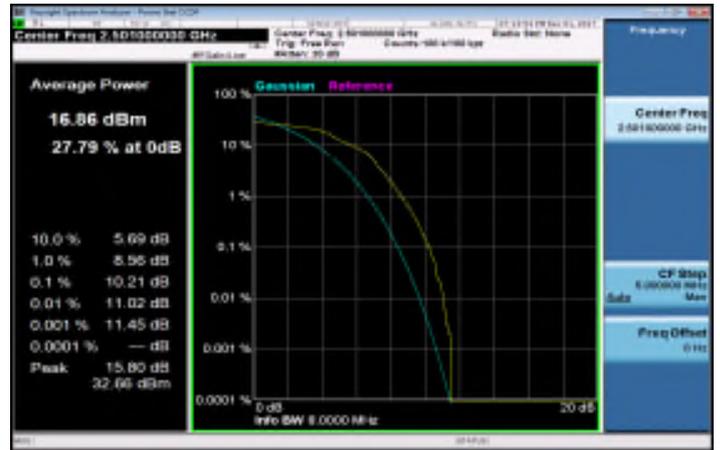
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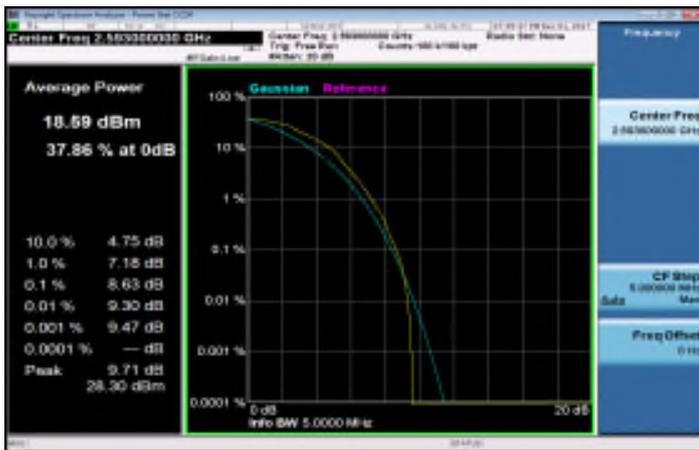
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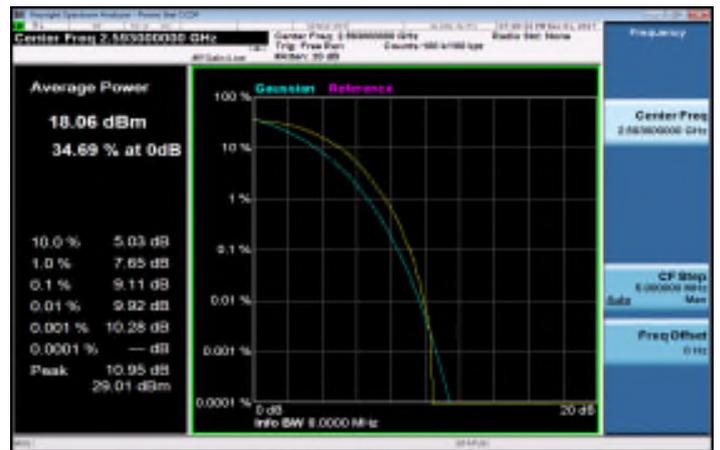
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LTE\_Band41\_10MHz\_16QAM\_50\_0\_Mid CH40620



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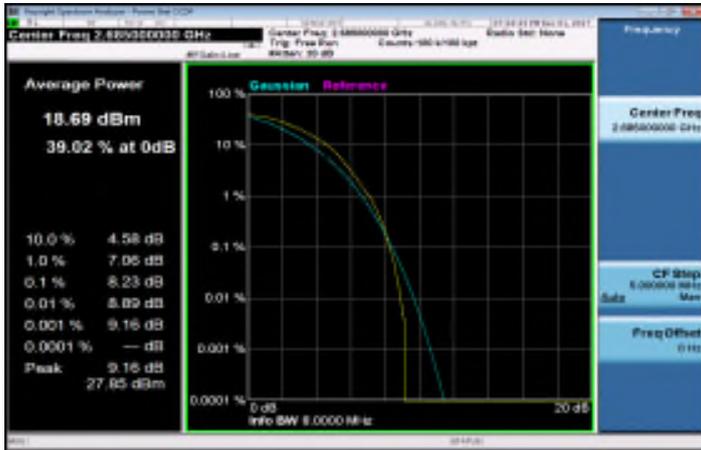
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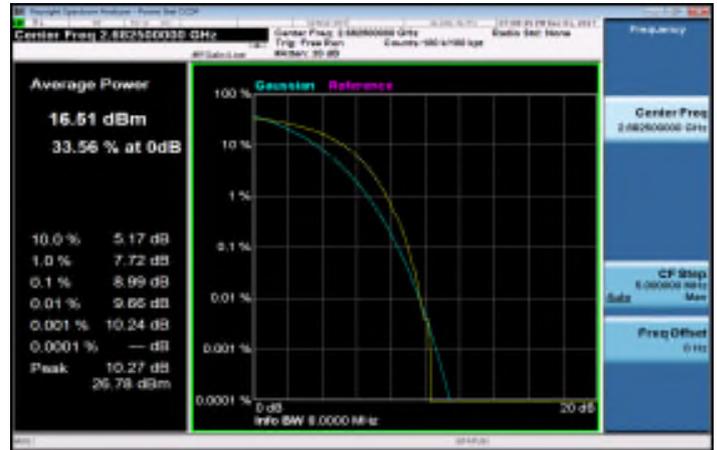
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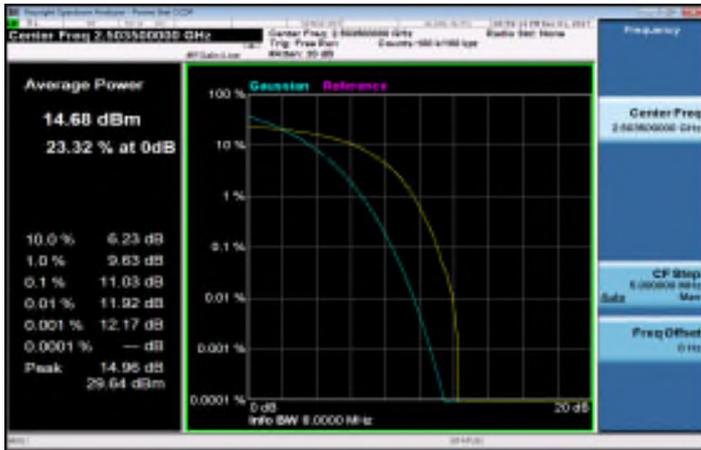
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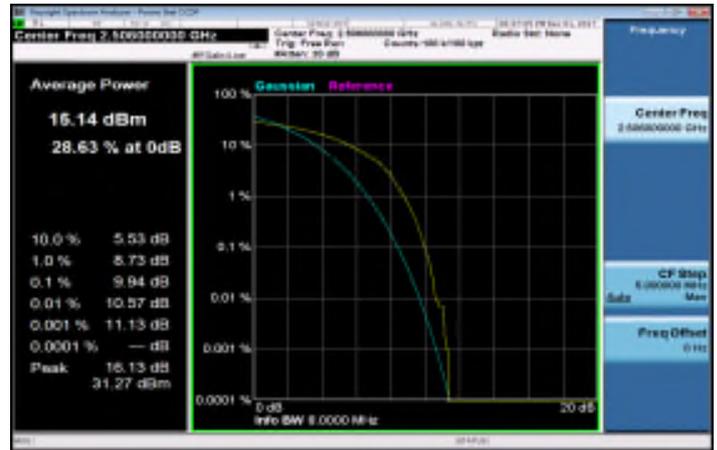
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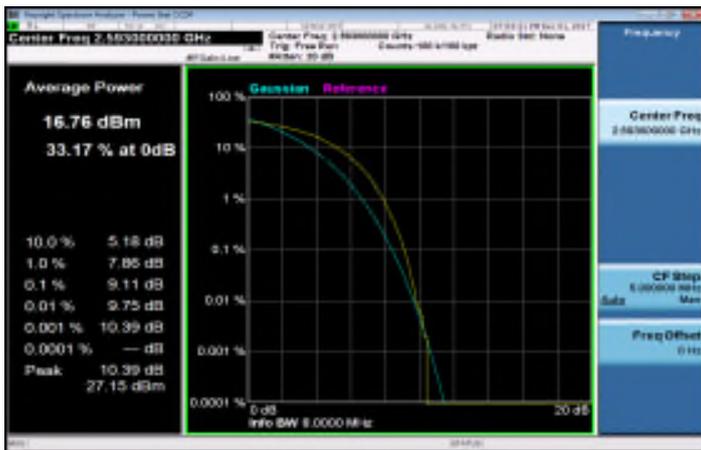
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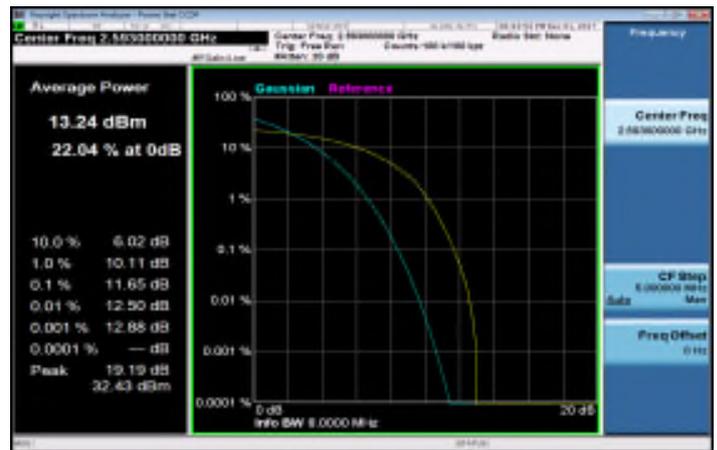
LTE\_Band41\_20MHz\_16QAM\_100\_0\_Low CH39750



LTE\_Band41\_15MHz\_16QAM\_75\_0\_Mid CH40620



LTE\_Band41\_20MHz\_16QAM\_100\_0\_Mid CH40620-2593

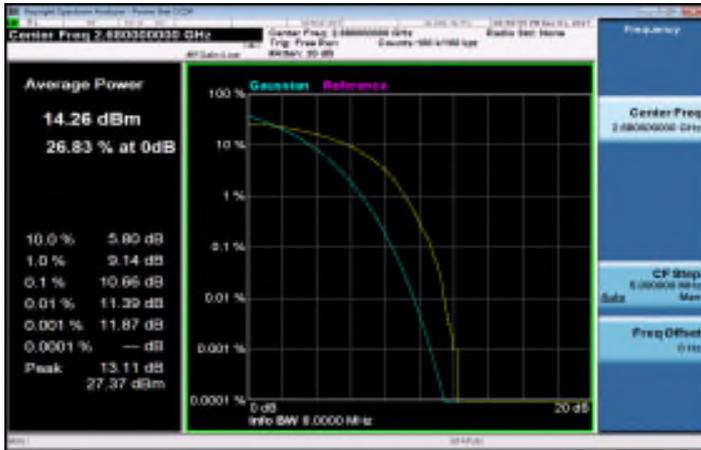


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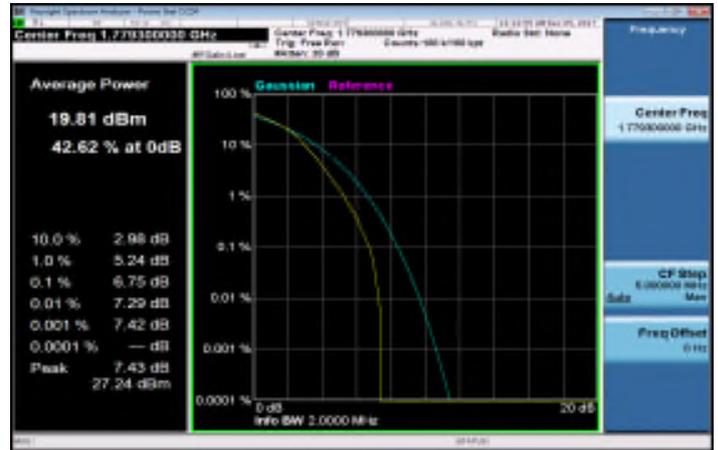
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LTE\_Band41\_20MHz\_16QAM\_100\_0\_High CH41490



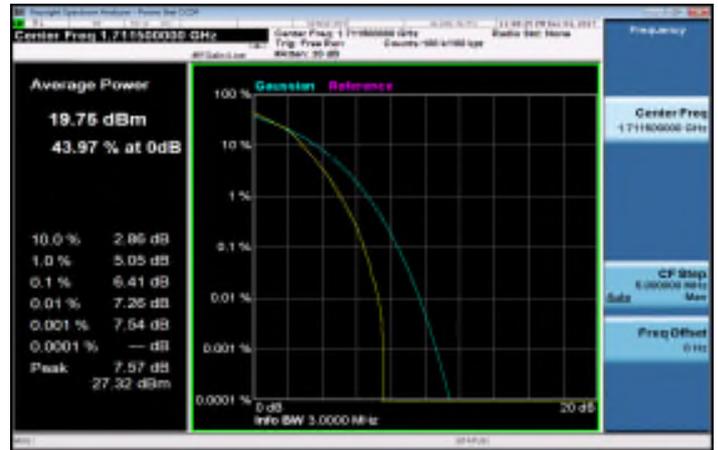
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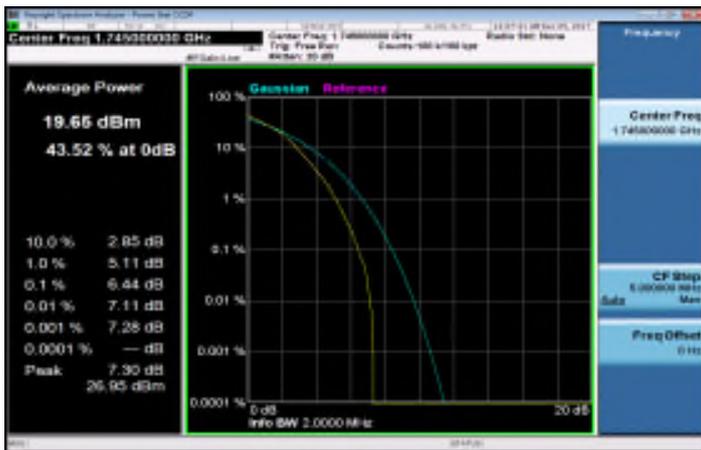
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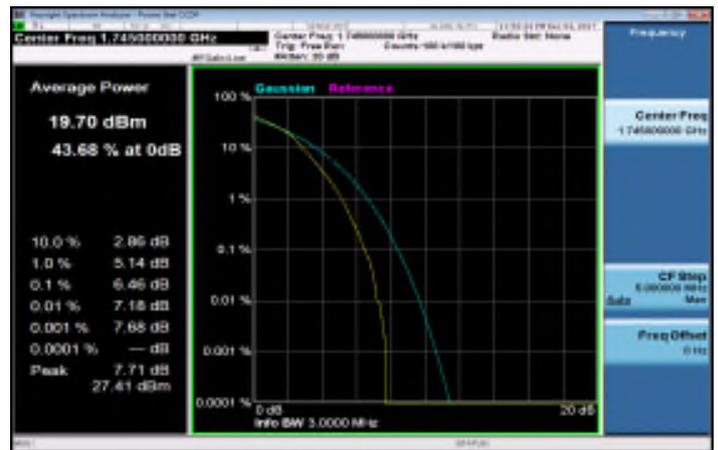
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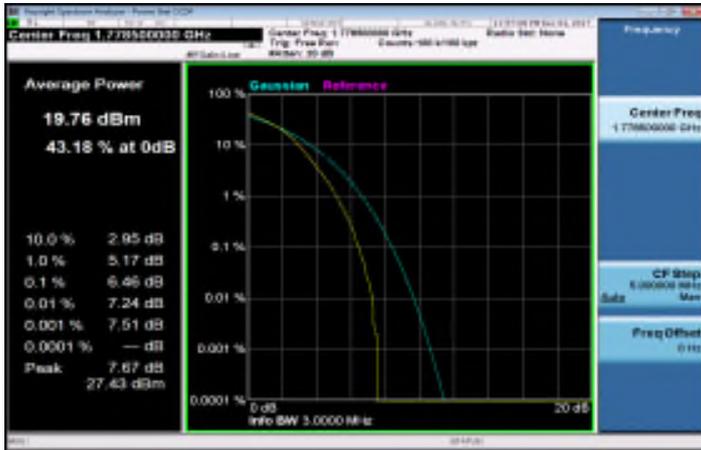


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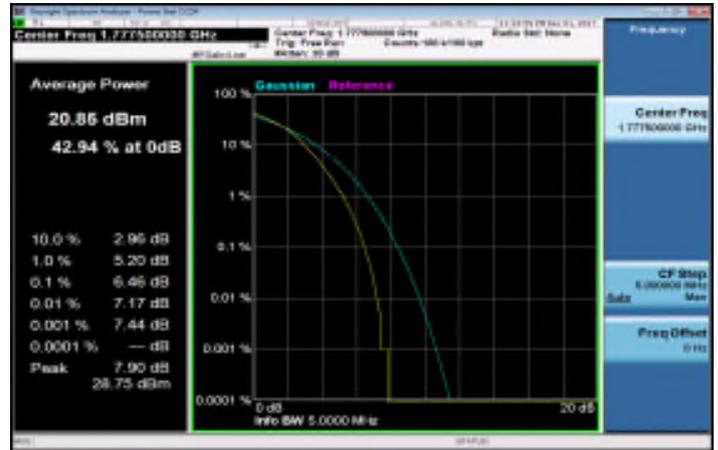
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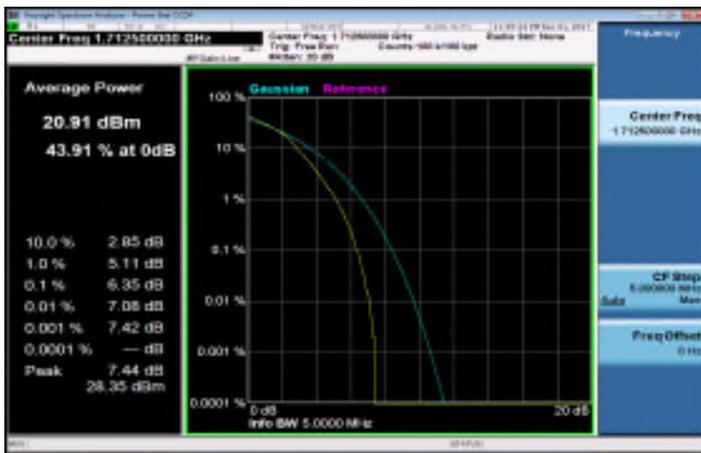
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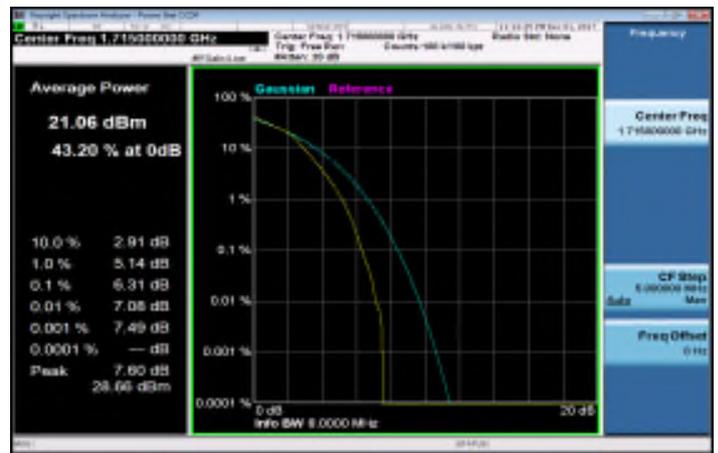
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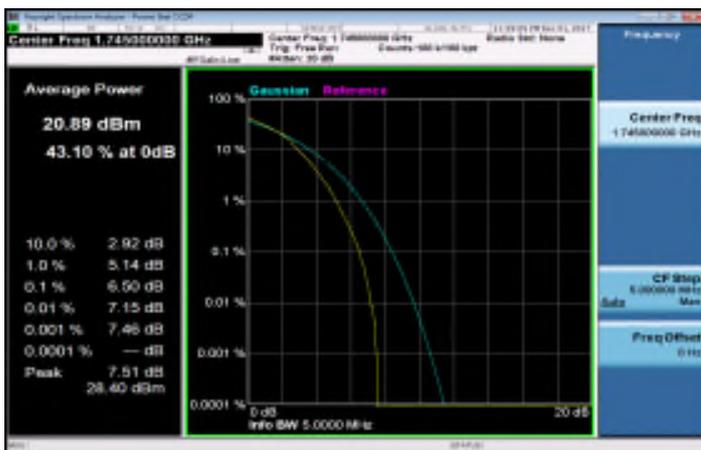
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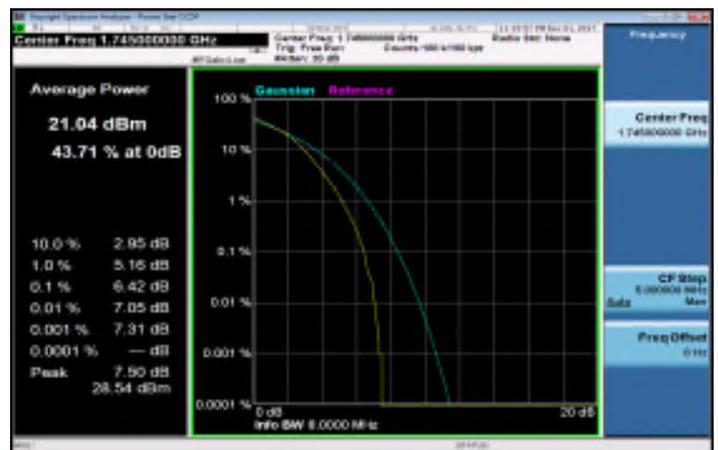
LTE\_Band66\_10MHz\_16QAM\_50\_0\_LowCH132022



LTE\_Band66\_5MHz\_16QAM\_25\_0\_MidCH132322



LTE\_Band66\_10MHz\_16QAM\_50\_0\_MidCH132322



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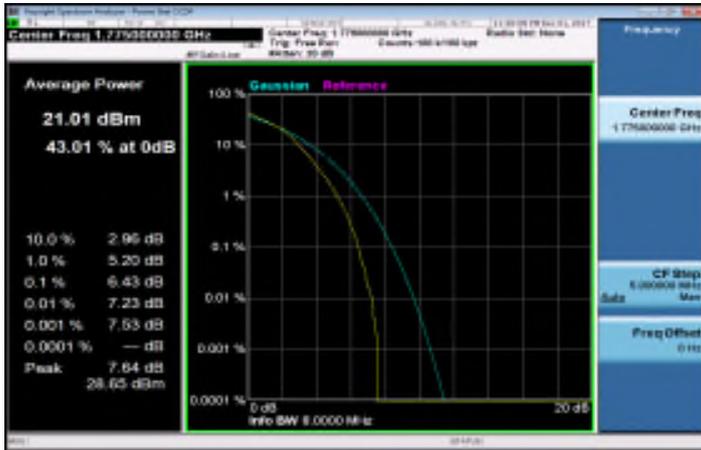
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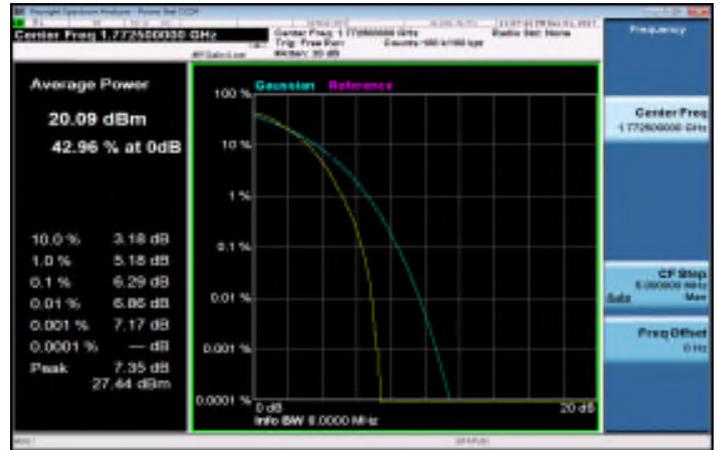
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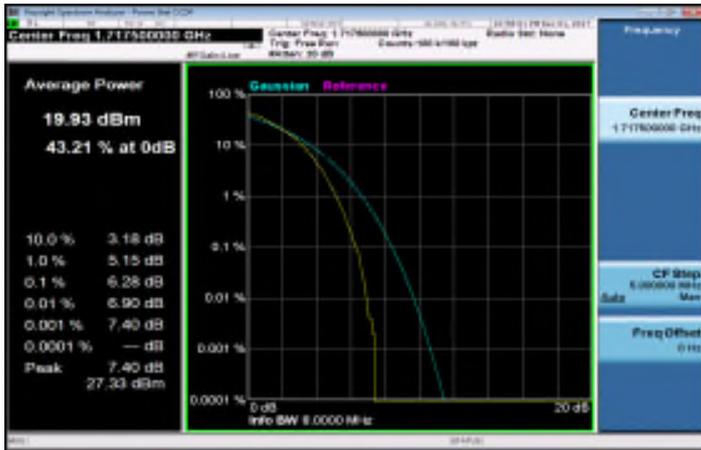
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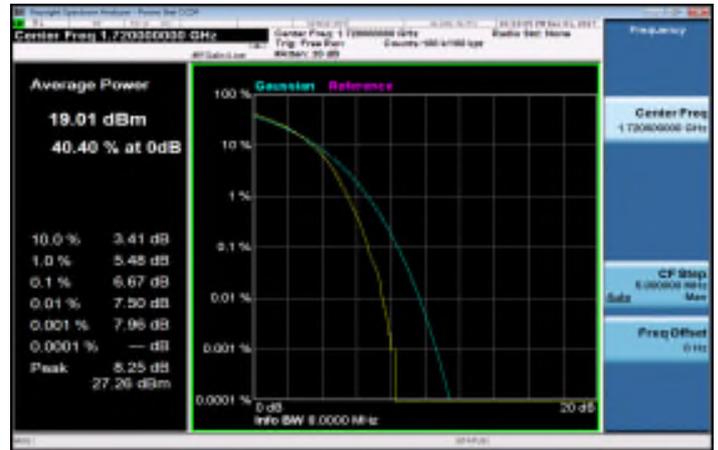
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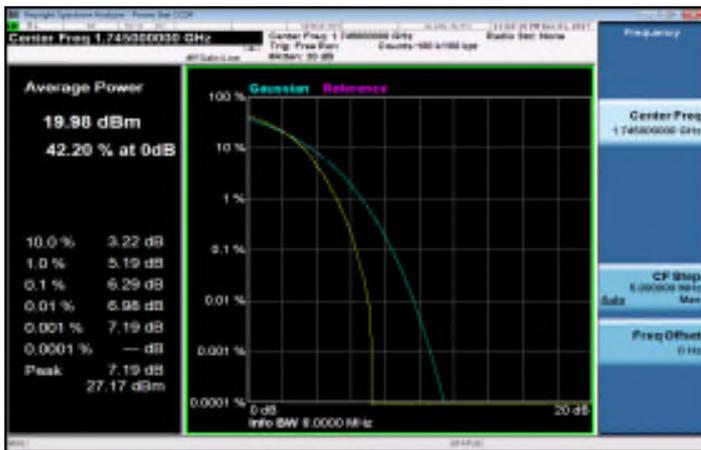
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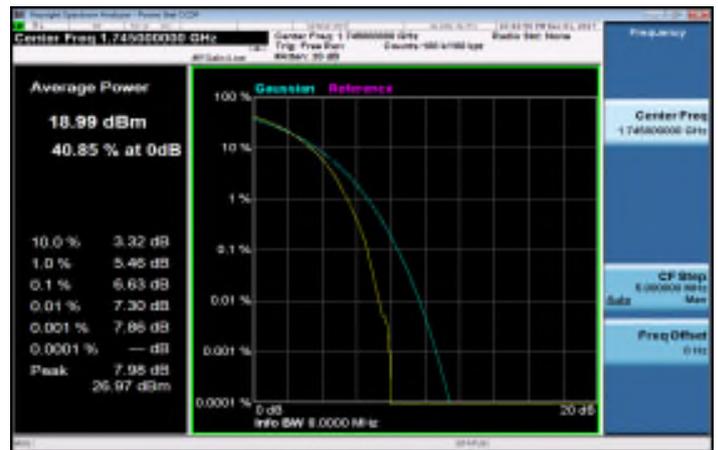
LTE\_Band66\_20MHz\_16QAM\_100\_0\_LowCH132072



LTE\_Band66\_15MHz\_16QAM\_75\_0\_MidCH132322



LTE\_Band66\_20MHz\_16QAM\_100\_0\_MidCH132322



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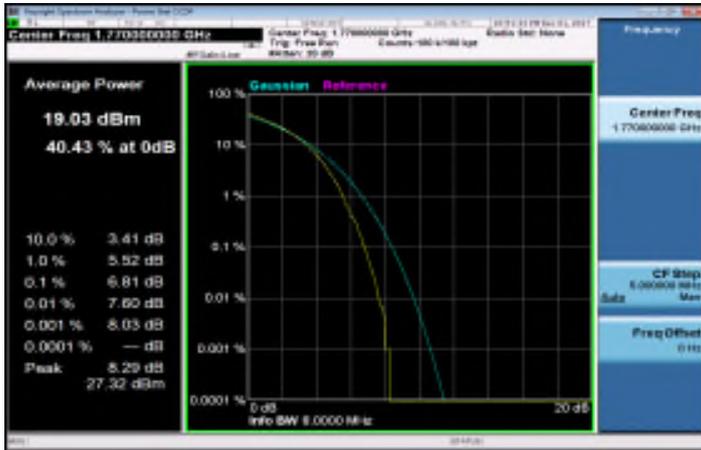
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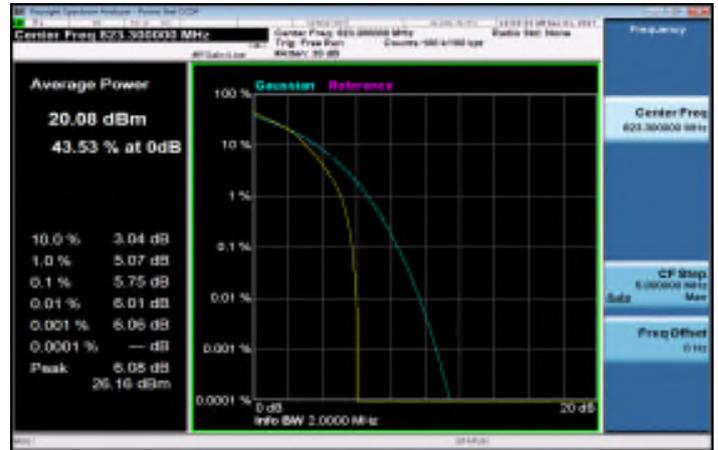
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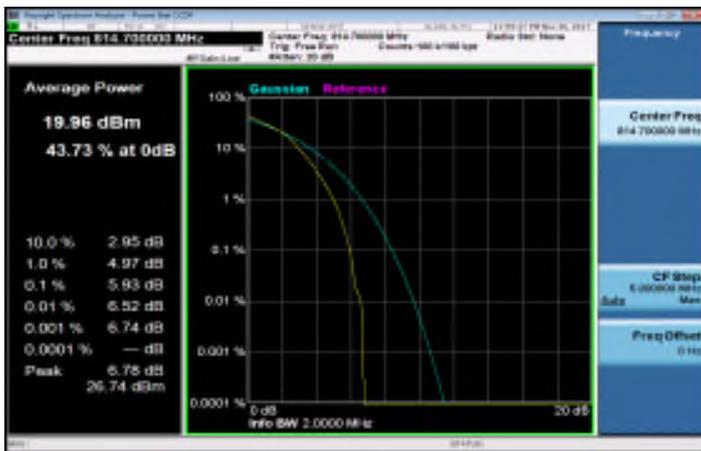
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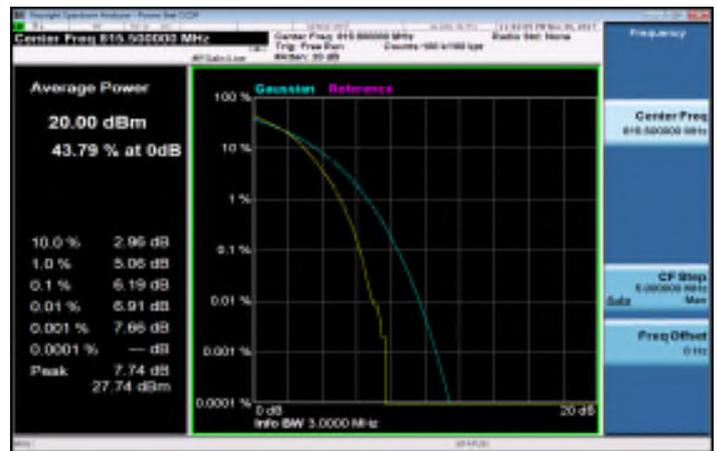
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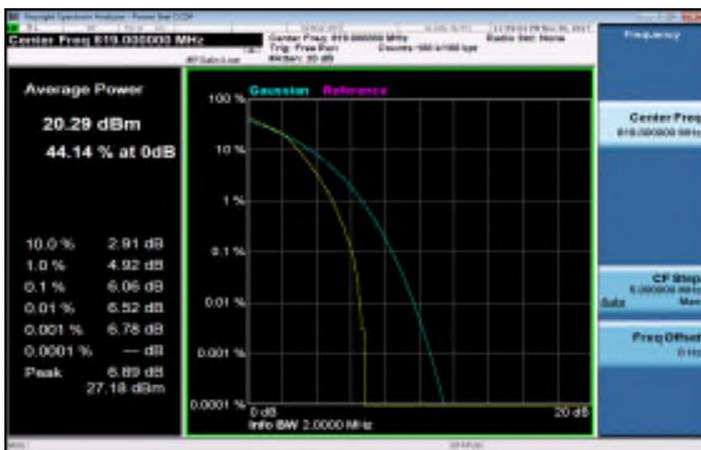
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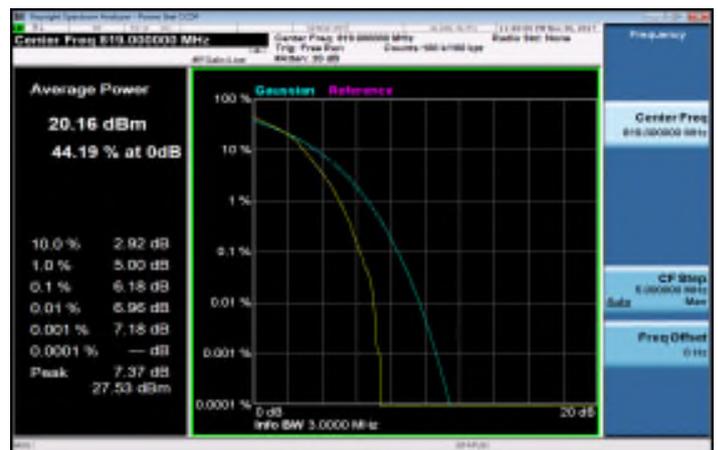
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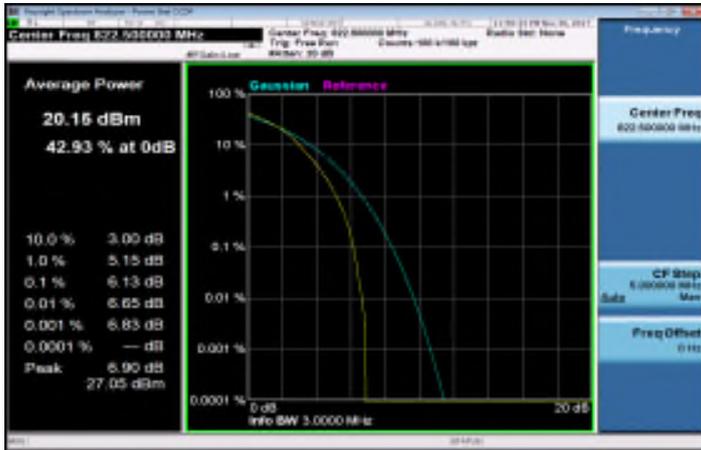


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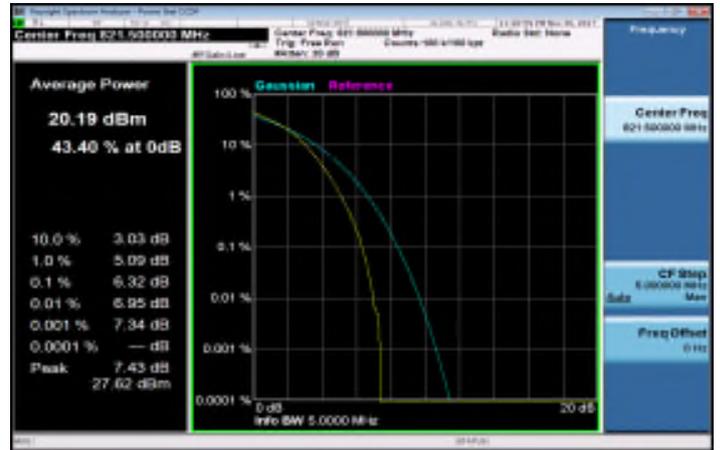
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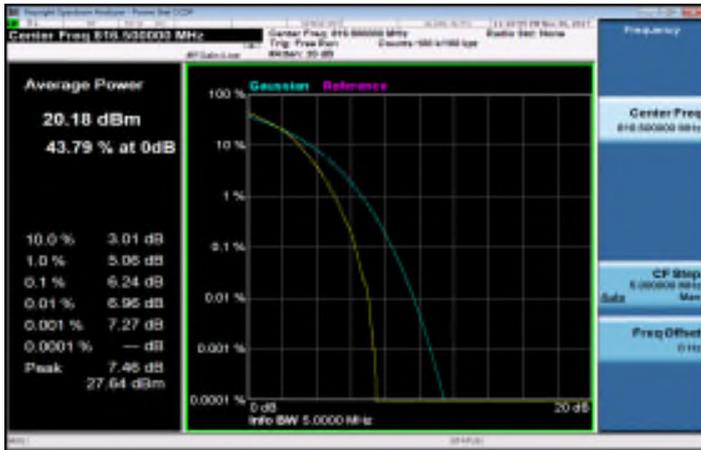
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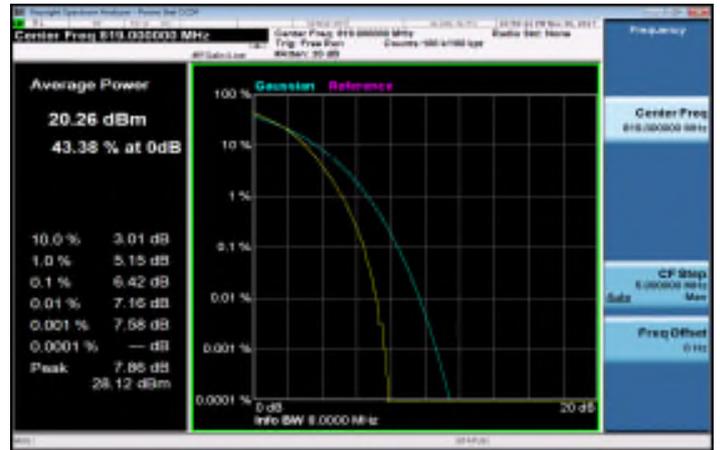
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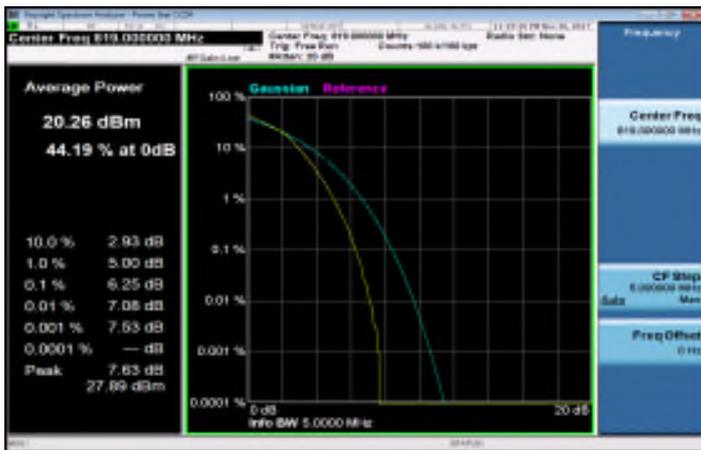
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Part 90\_LTE\_Band26\_10MHz\_16QAM\_50\_0\_MidCH26740



Part 90\_LTE\_Band26\_5MHz\_16QAM\_25\_0\_MidCH26740



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## PHOTOGRAPHS OF SET UP

### Radiated Emission Set up Photos (Below 1GHz)(E2 Plan)



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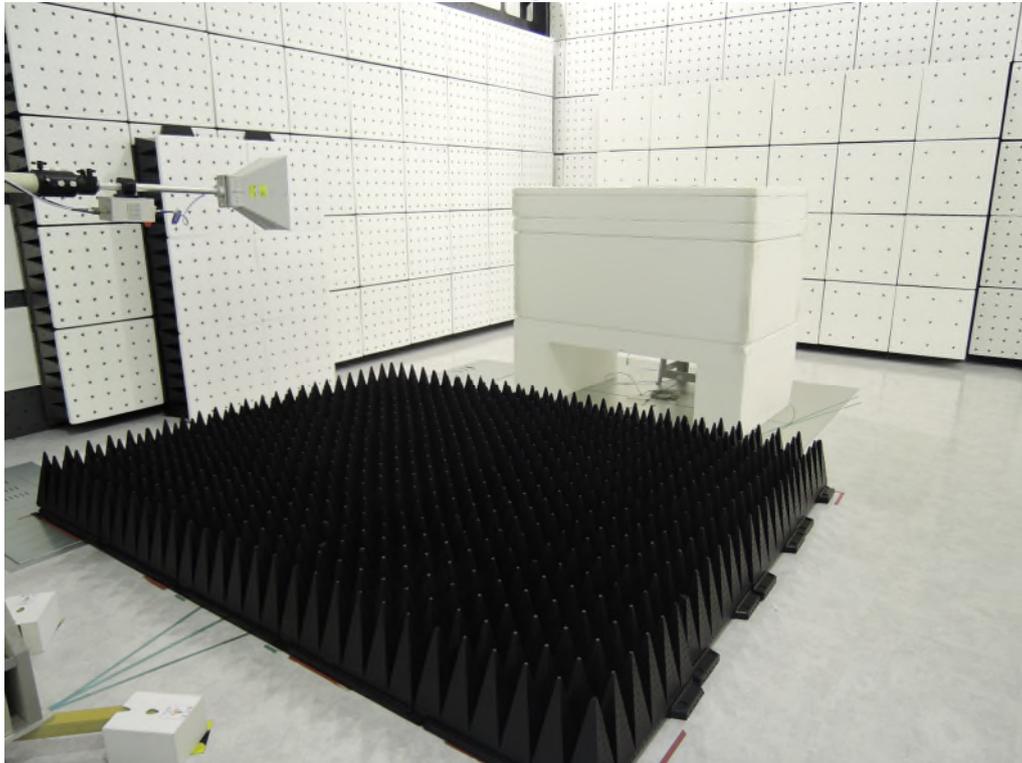
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### Conducted Set up Photos



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