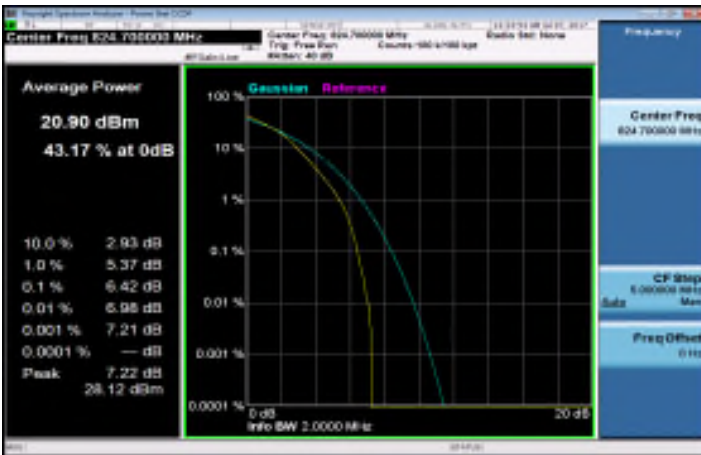
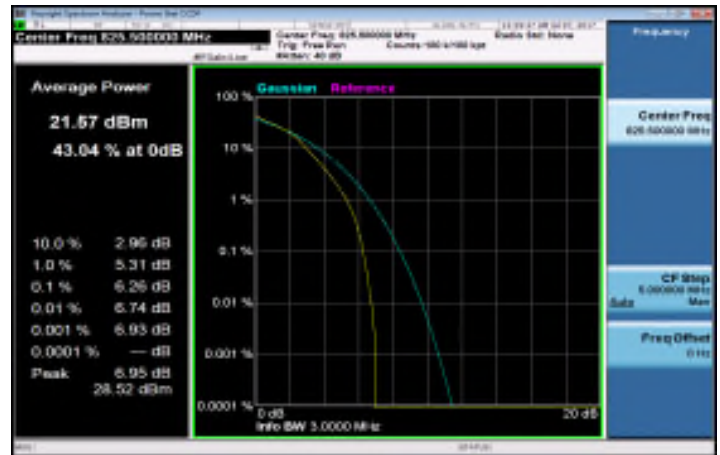


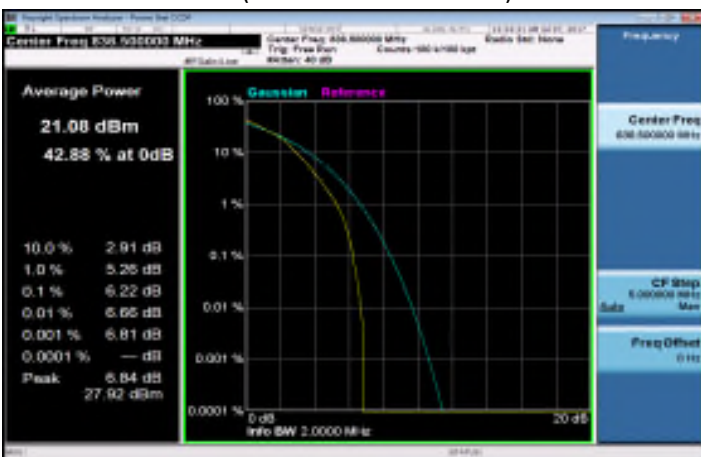
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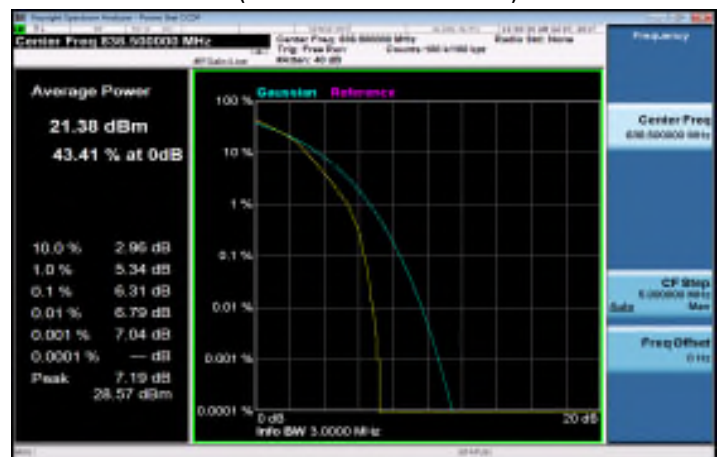
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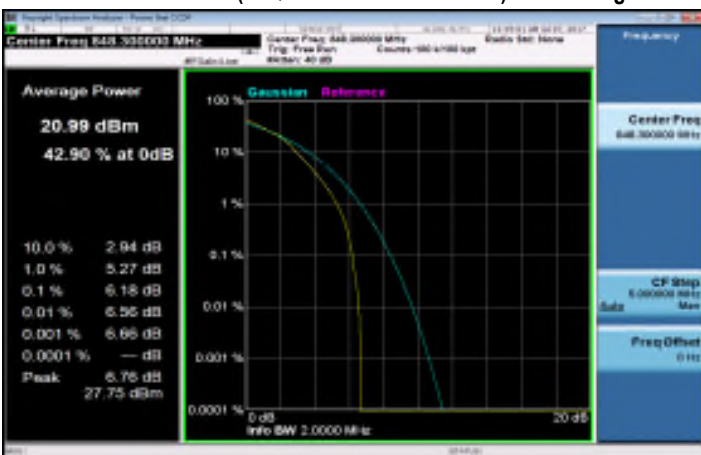
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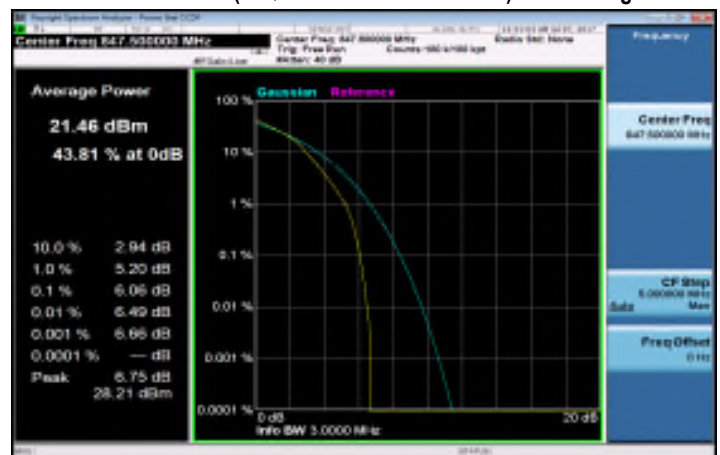
3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid



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



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



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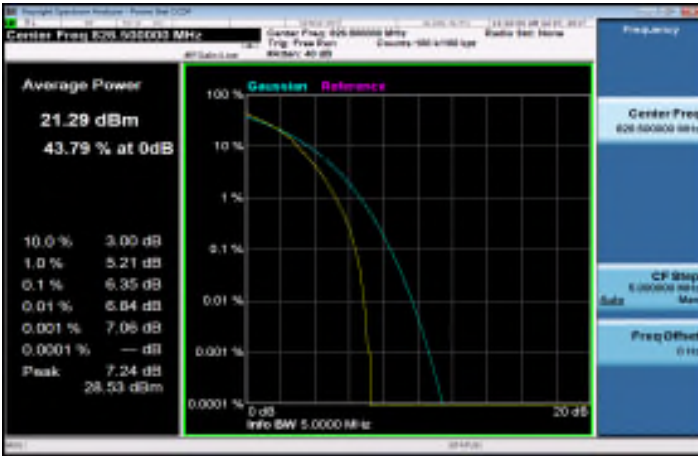
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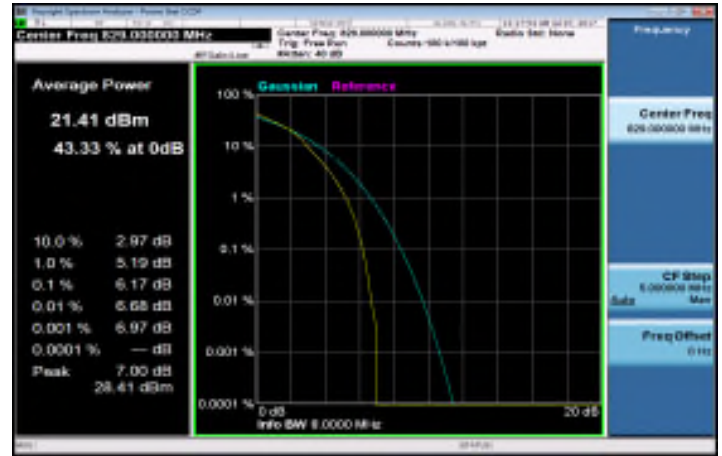
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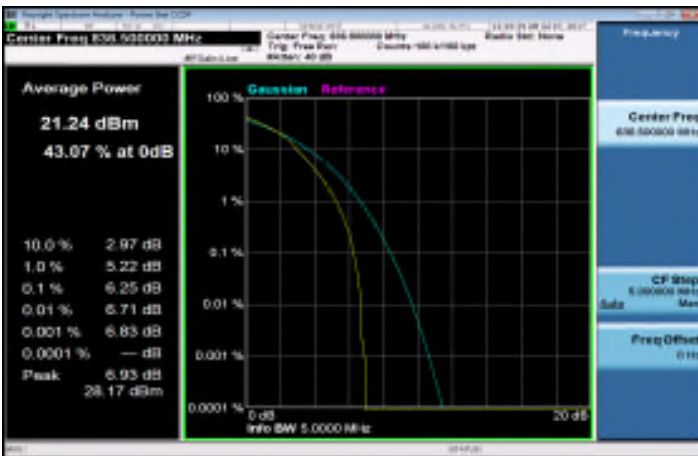
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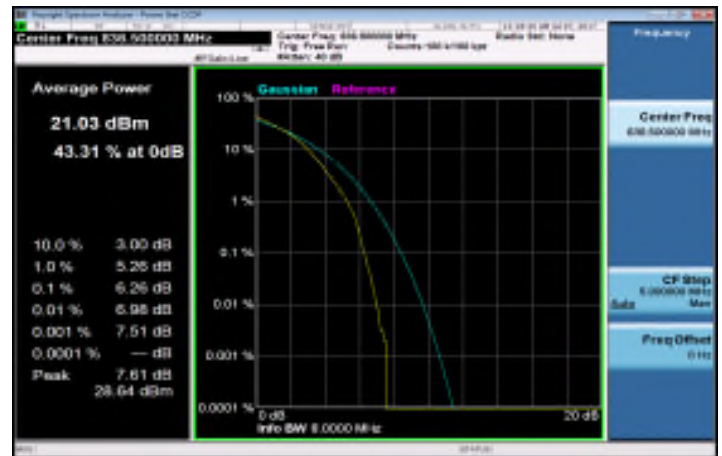
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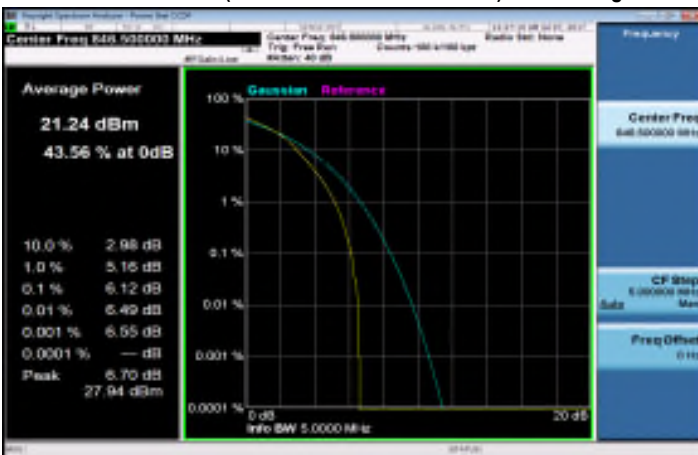
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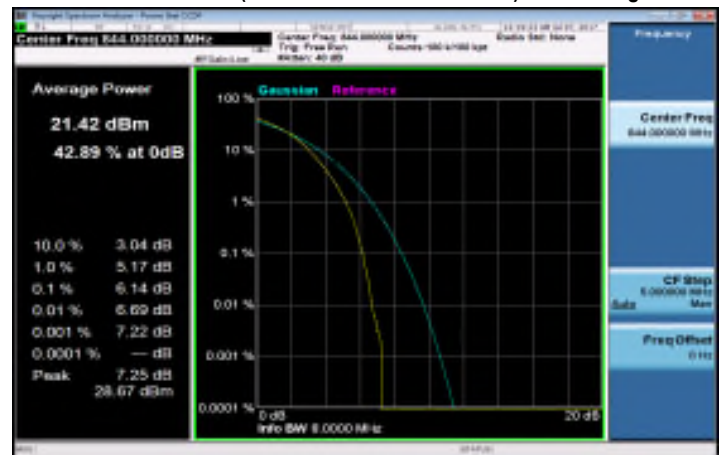
10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid



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



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



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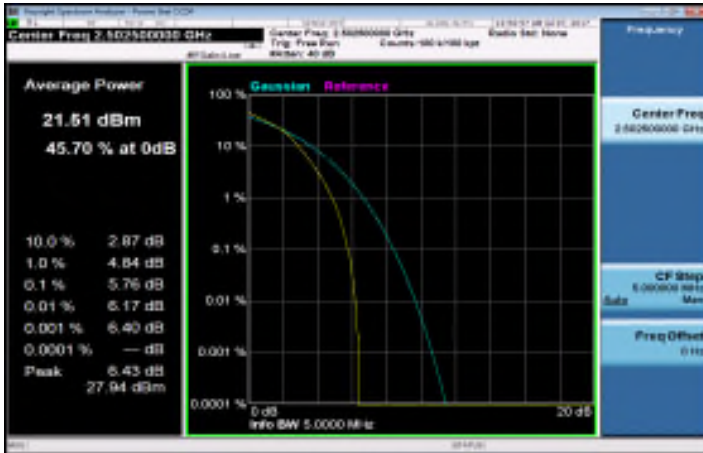
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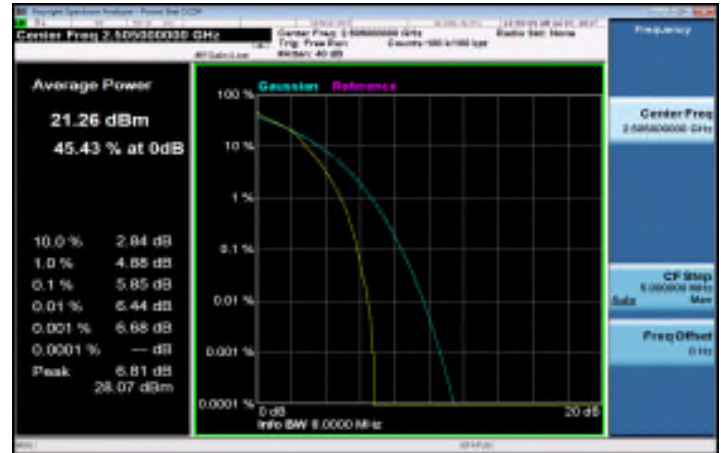
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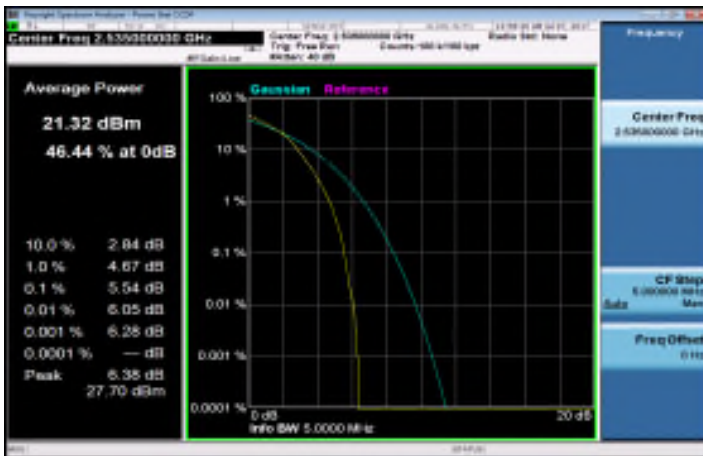
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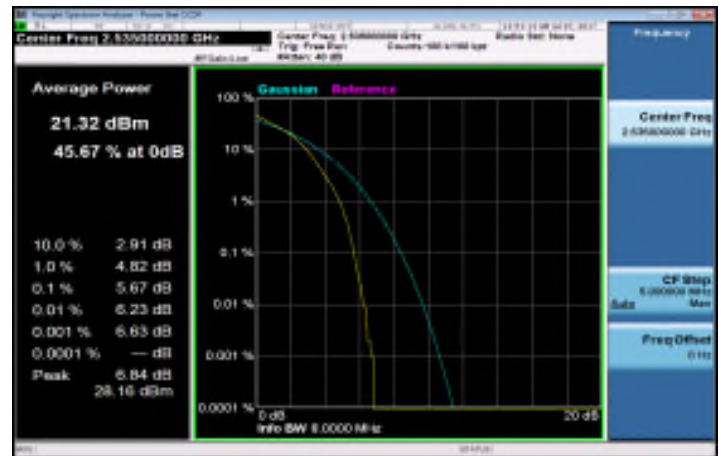
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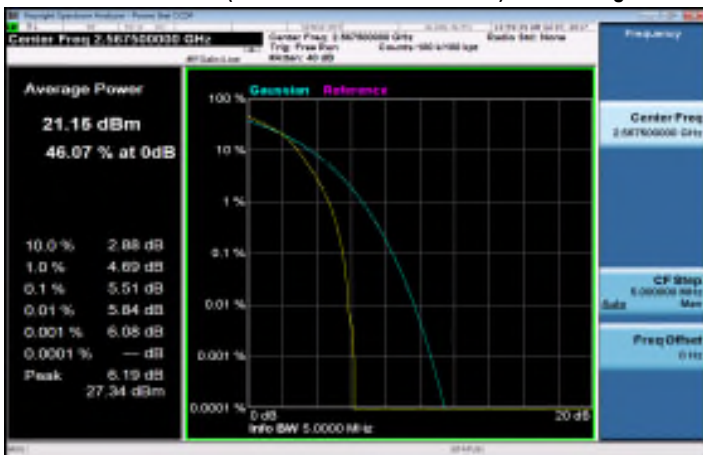
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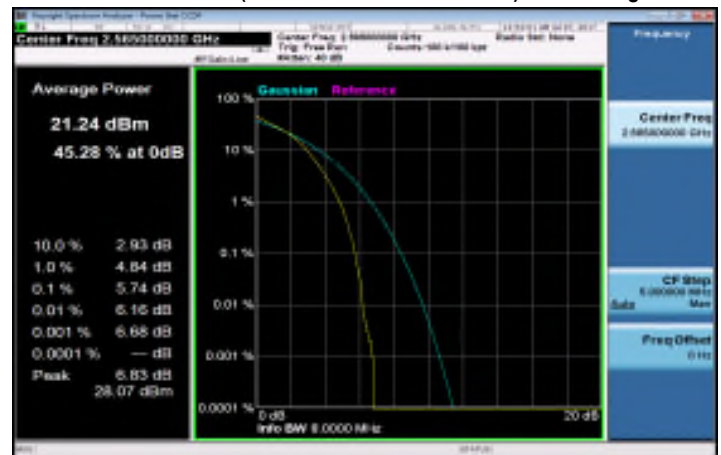
10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid



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



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



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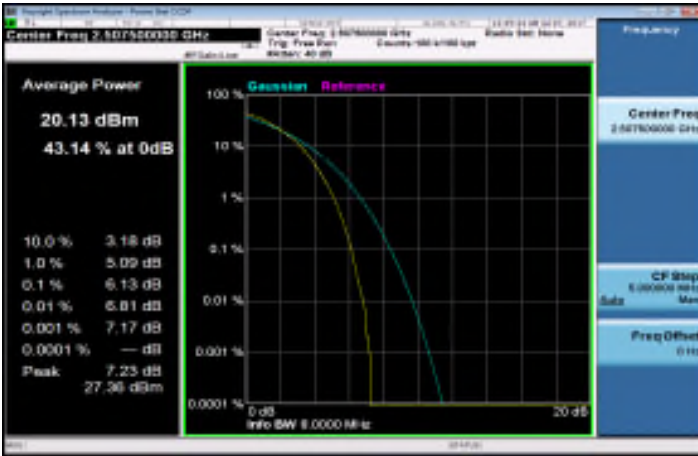
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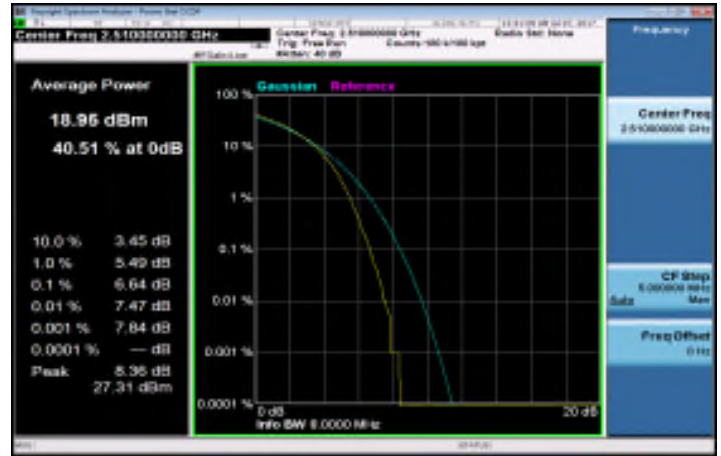
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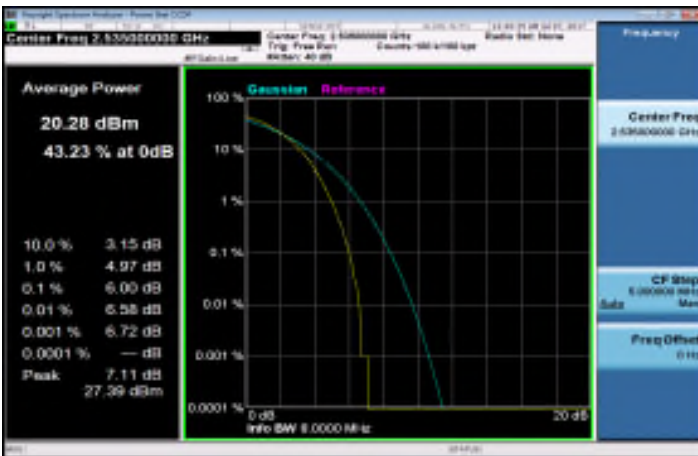
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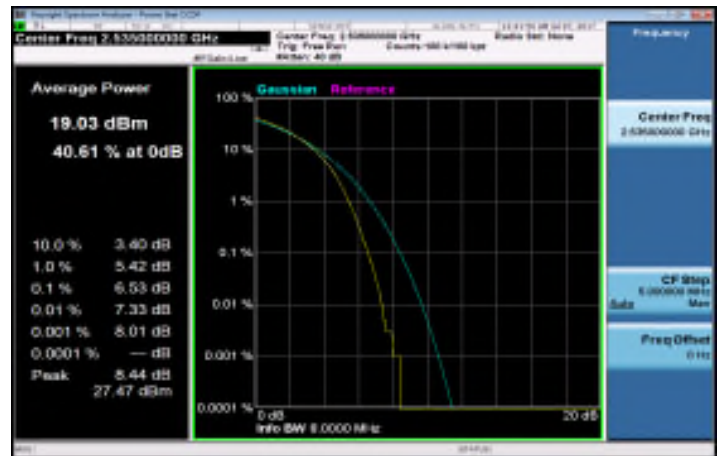
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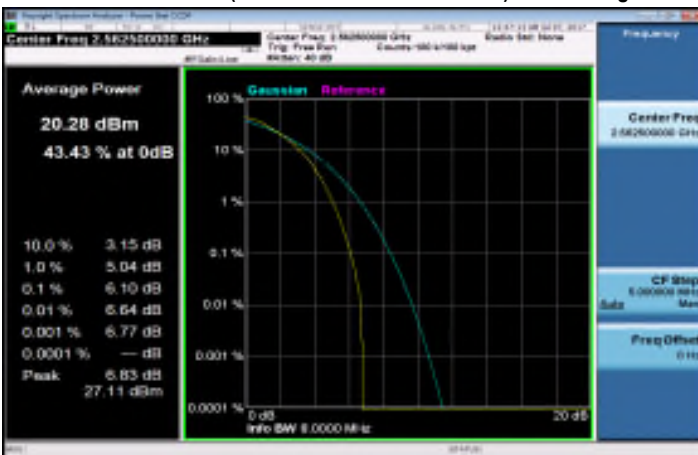
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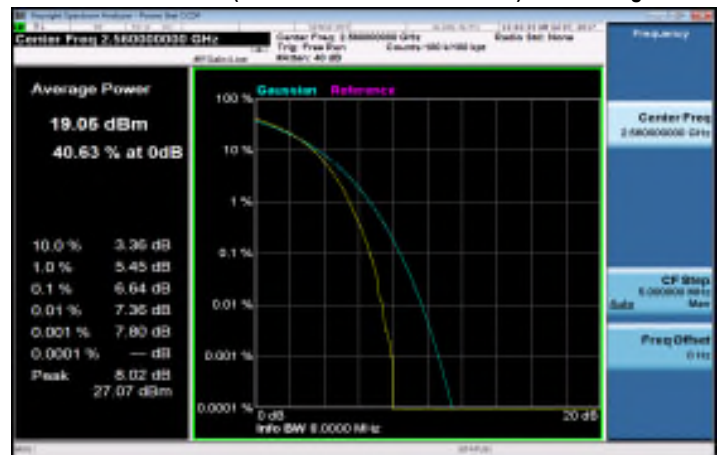
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15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High



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

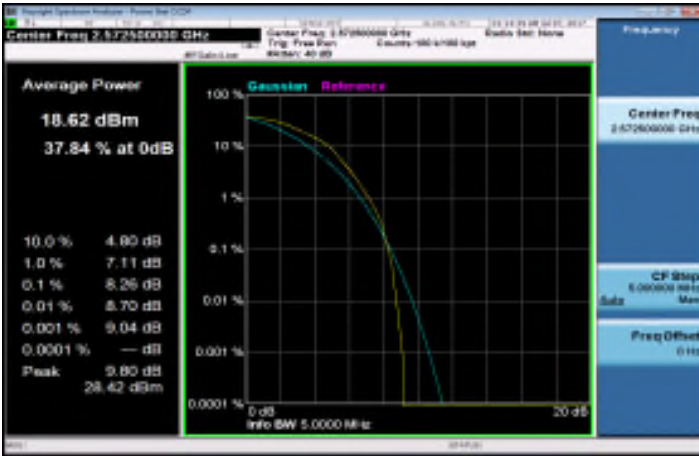


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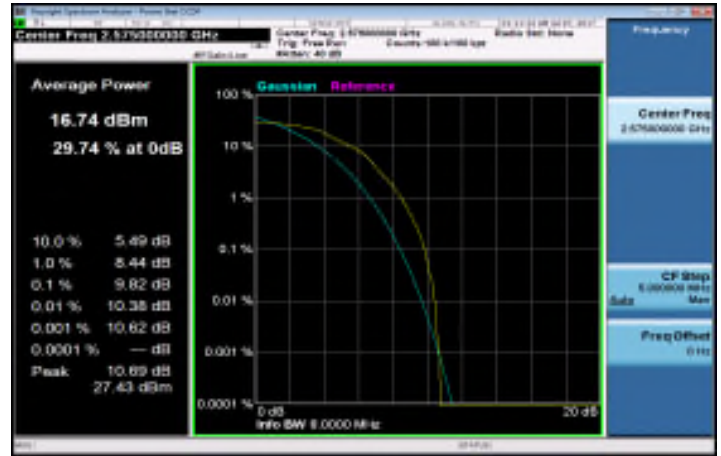
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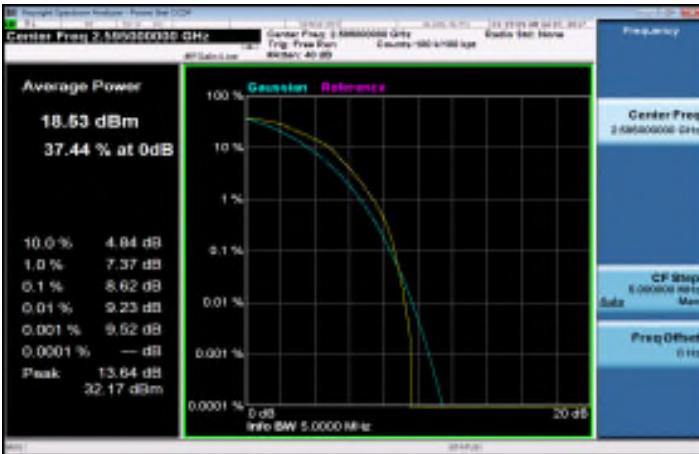
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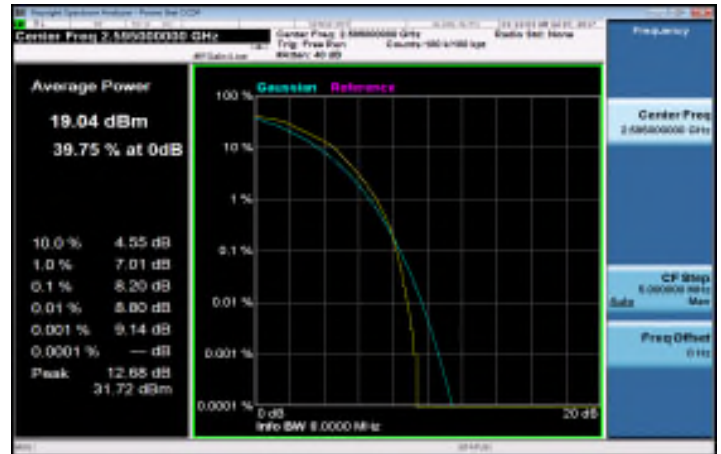
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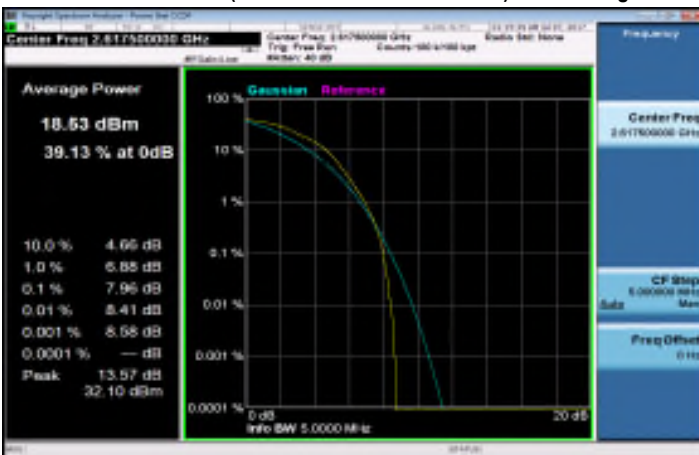
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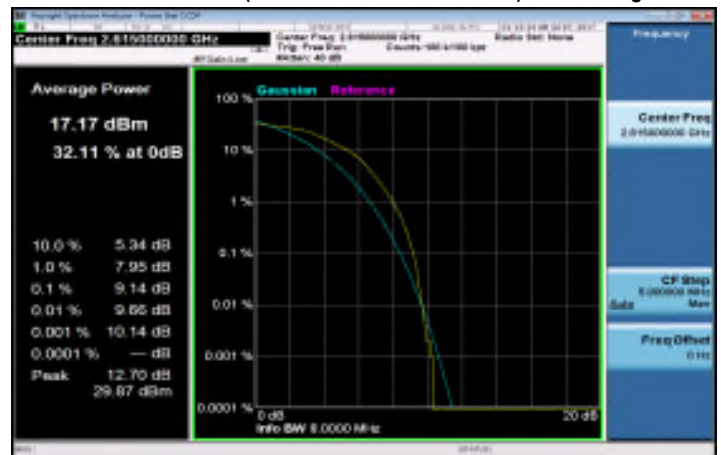
10MHz BW LTE-Band 38(16QAM Number: 50 Offset: 0) Channel Mid



5MHz BW LTE-Band 38(16QAM Number: 25 Offset: 0) Channel High



10MHz BW LTE-Band 38(16QAM Number: 50 Offset: 0) Channel High



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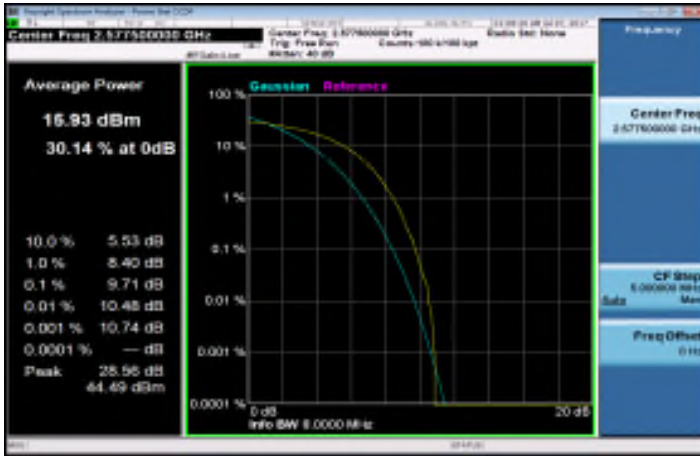
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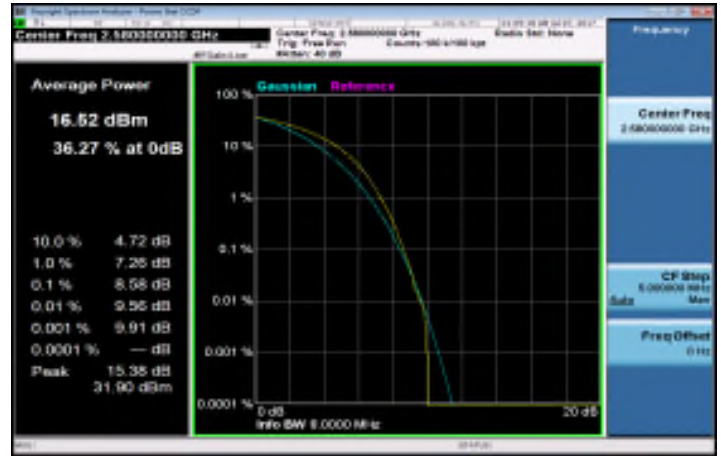
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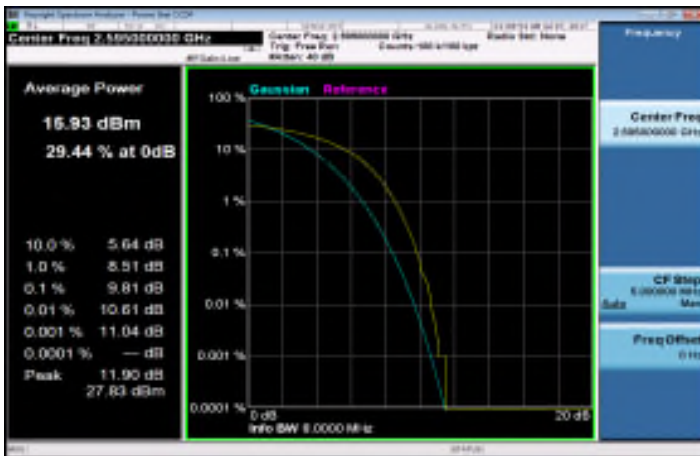
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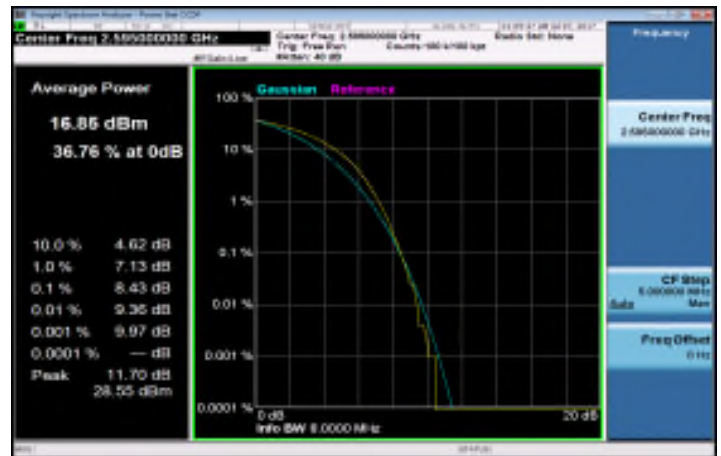
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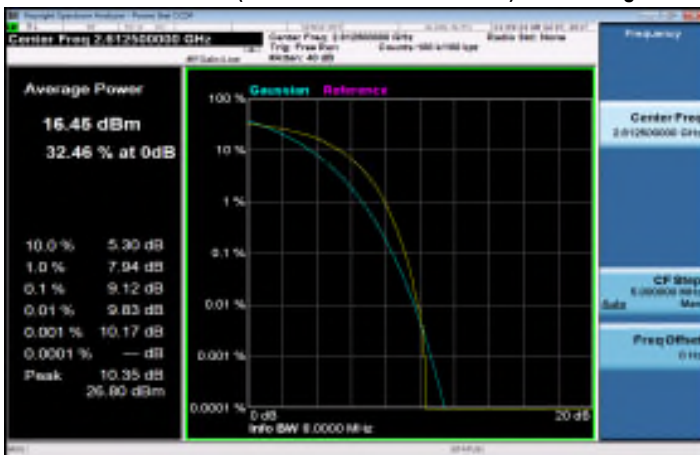
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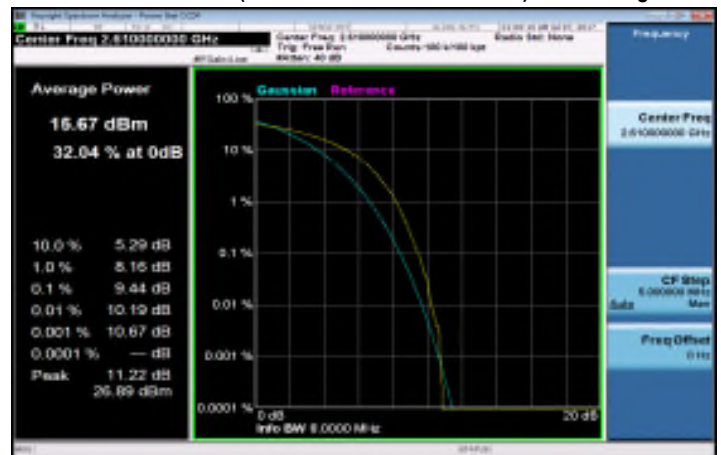
20MHz BW LTE-Band 38(16QAM Number: 100 Offset: 0) Channel Mid



15MHz BW LTE-Band 38(16QAM Number: 75 Offset: 0) Channel High



20MHz BW LTE-Band 38(16QAM Number: 100 Offset: 0) Channel High



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13. RSE ASSESSMENT FOR C2PC

13.1. Standard Applicable

According to FCC §2.1053,

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

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

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

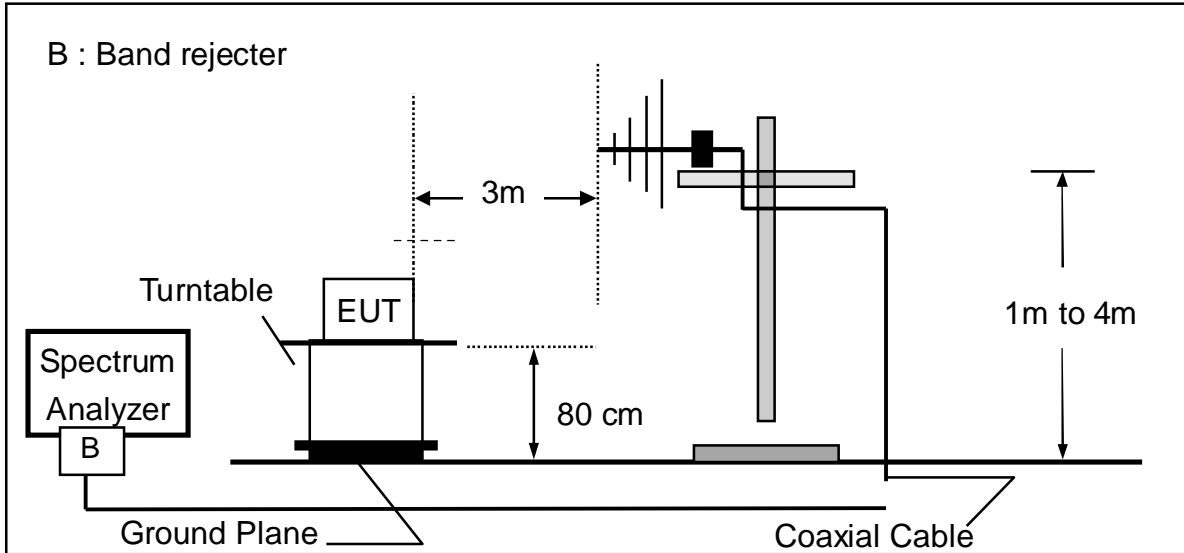
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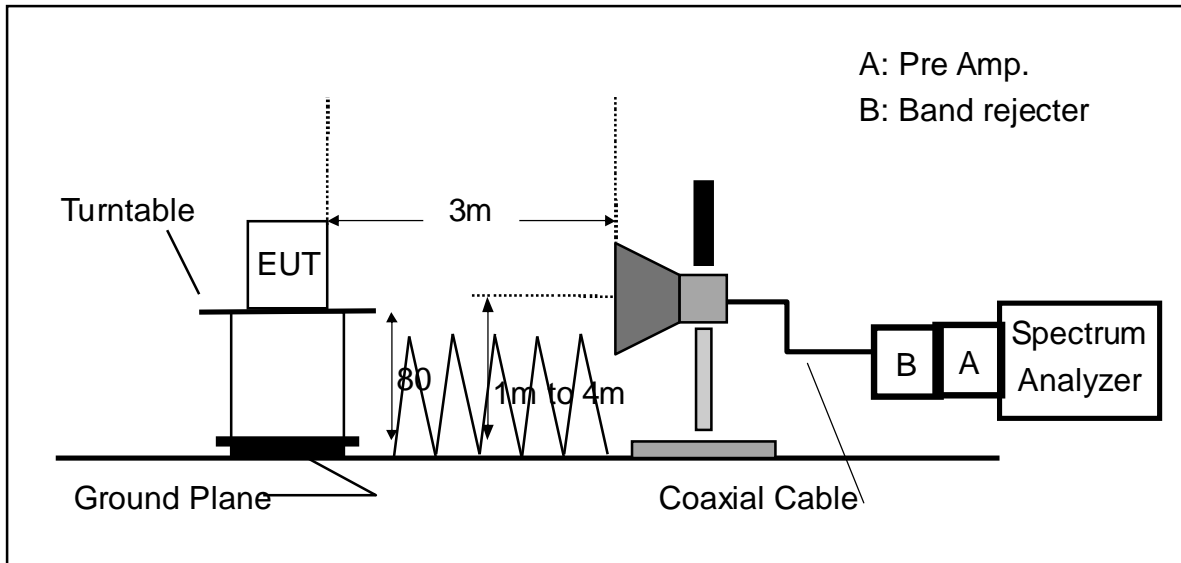
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13.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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13.3. Measurement Procedure:

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

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

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

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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

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13.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/19/2017	09/18/2018
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2017	01/02/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/03/2017	01/02/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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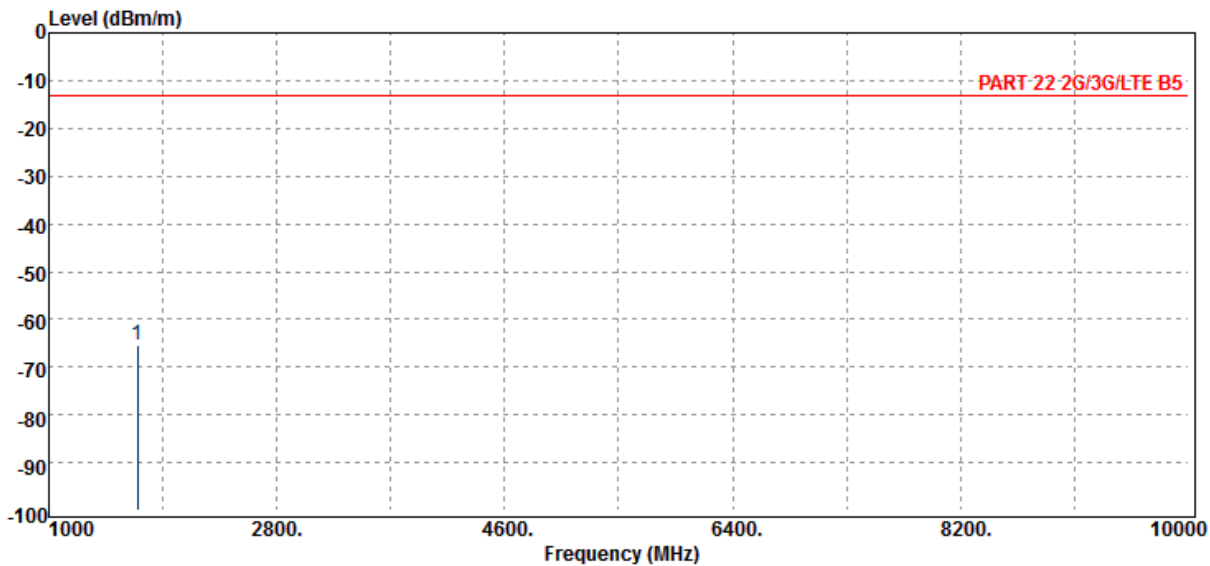
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Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement	Antenna :VERTICAL
EUT Pol.	:E2 Plane	Pol.	



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-63.40	-68.52	9.43	-4.31	-13	-50.40

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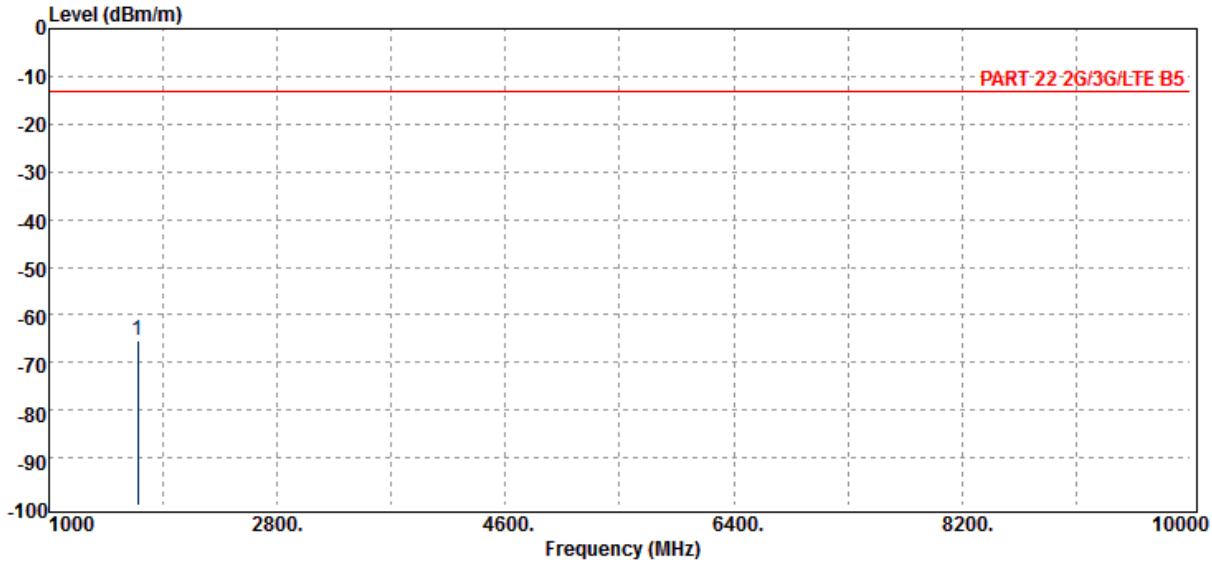
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Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-63.41	-68.53	9.43	-4.31	-13	-50.41

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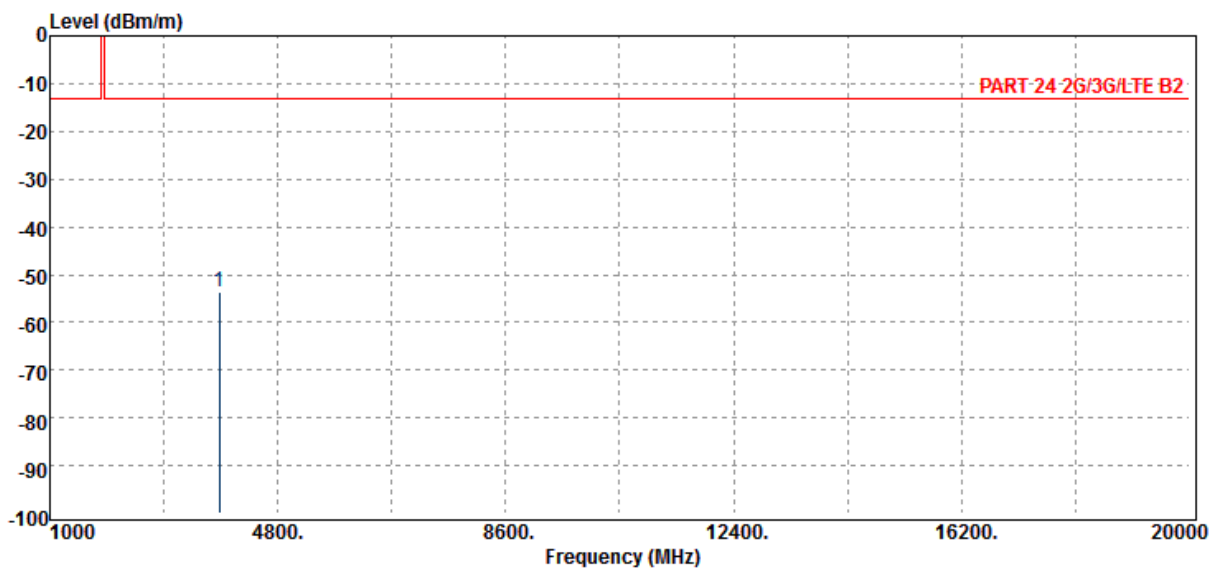
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Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement Pol.	Antenna :VERTICAL
EUT Pol.	:H Plane		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-53.75	-59.57	12.47	-6.65	-13.00	-40.75

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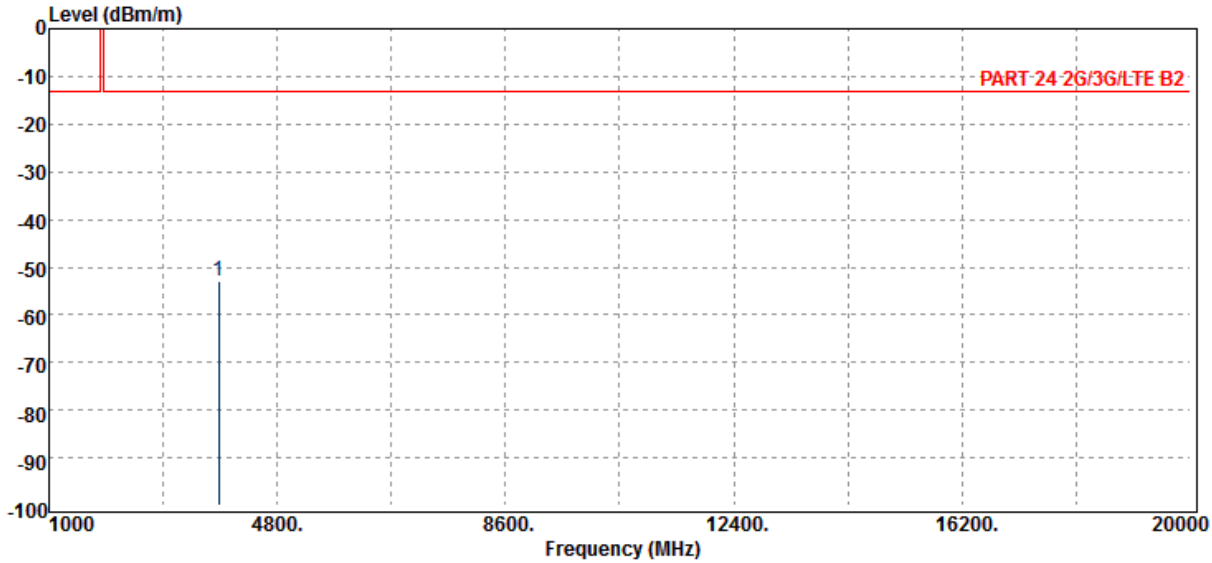
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Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-52.94	-58.76	12.47	-6.65	-13.00	-39.94

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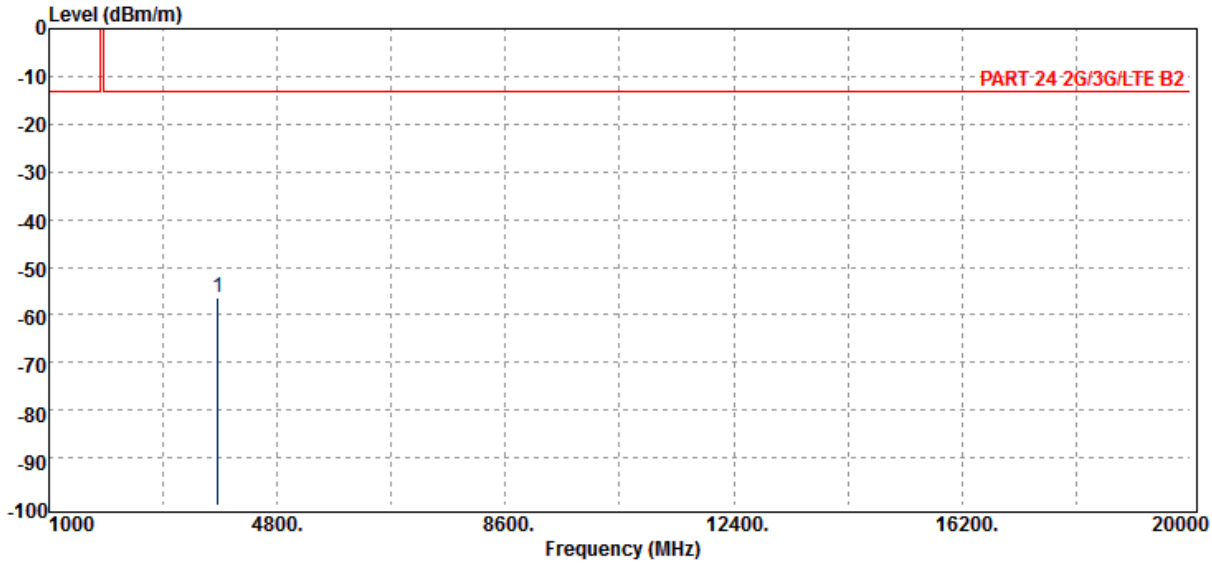
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Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

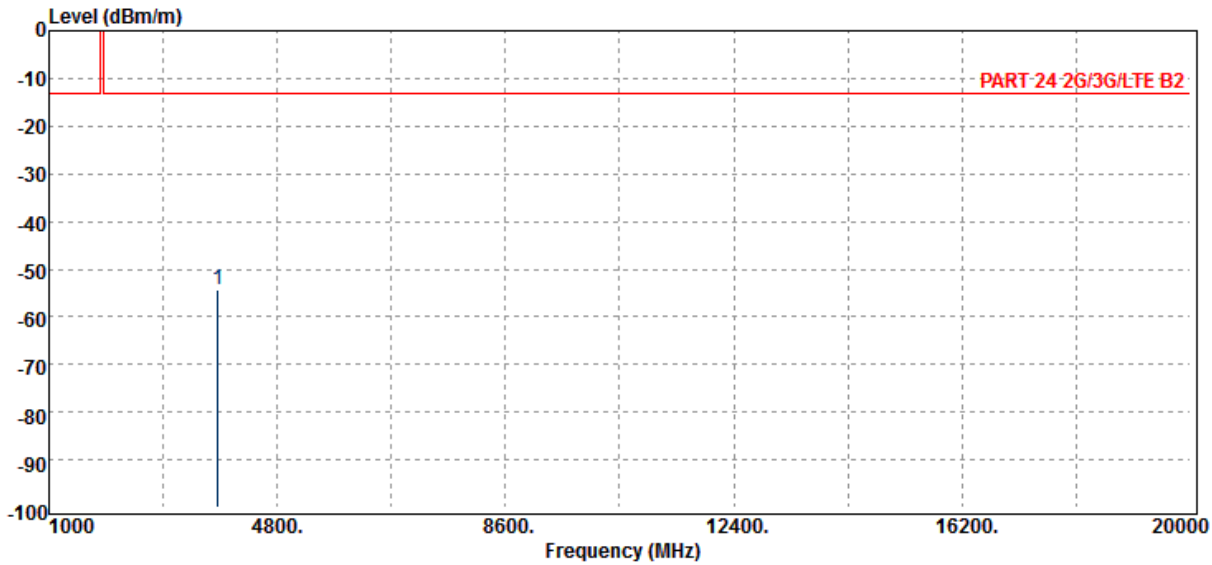


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-56.26	-62.09	12.46	-6.63	-13.00	-43.26

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Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-54.20	-60.03	12.46	-6.63	-13.00	-41.20

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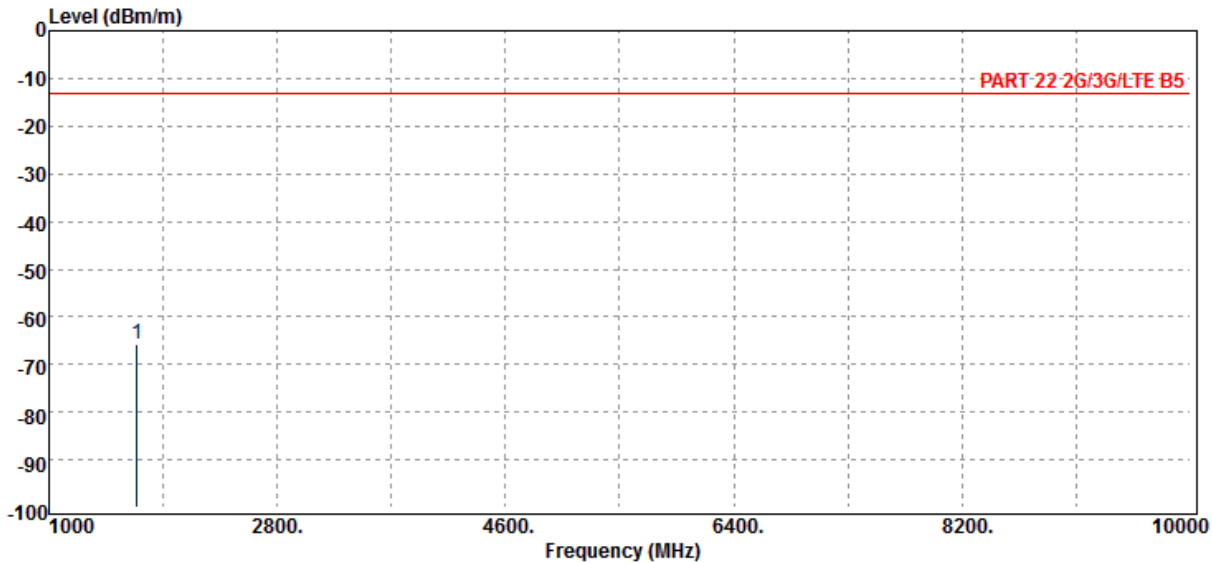
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Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-63.73	-68.85	9.42	-4.30	-13	-50.73

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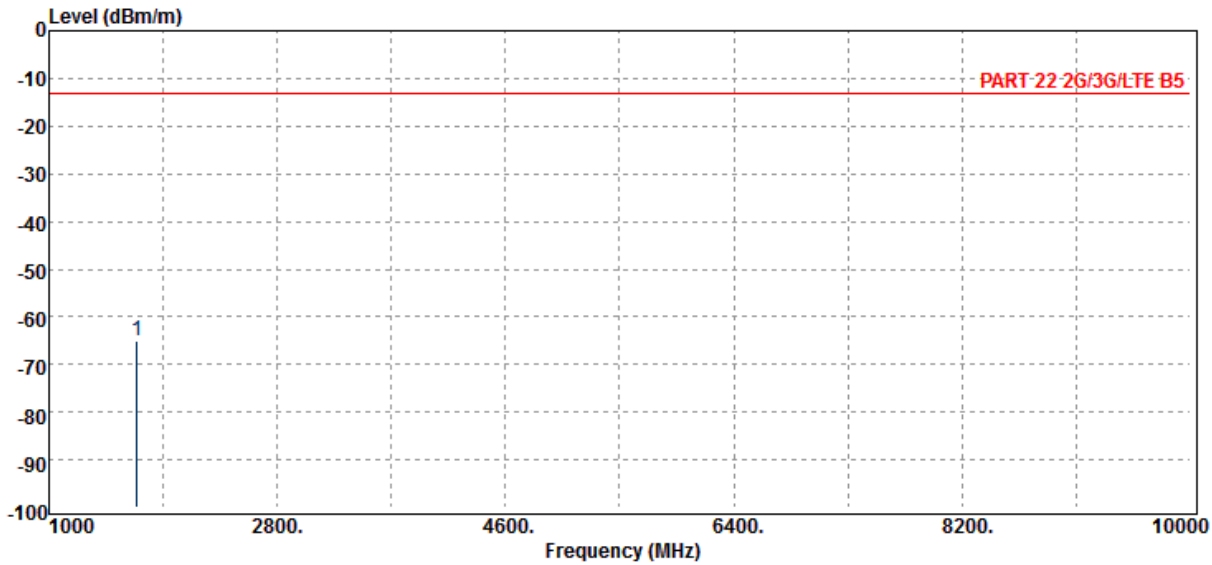
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Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-62.84	-67.96	9.42	-4.30	-13	-49.84

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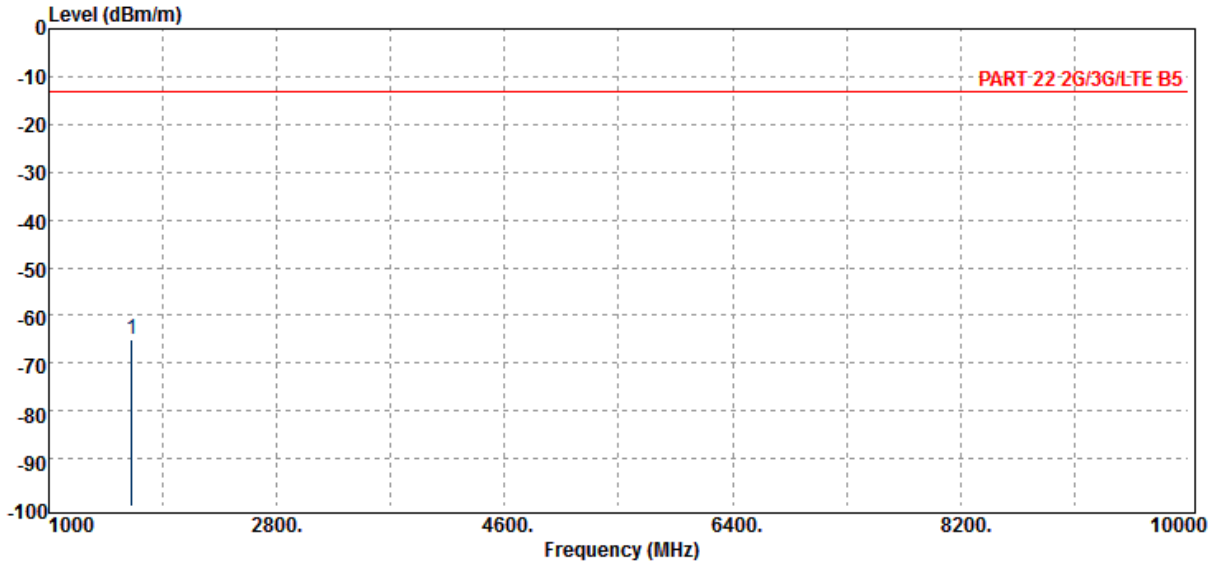
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Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1653.00	H	-65.00	-67.89	7.12	-4.24	-13.00	-52.00

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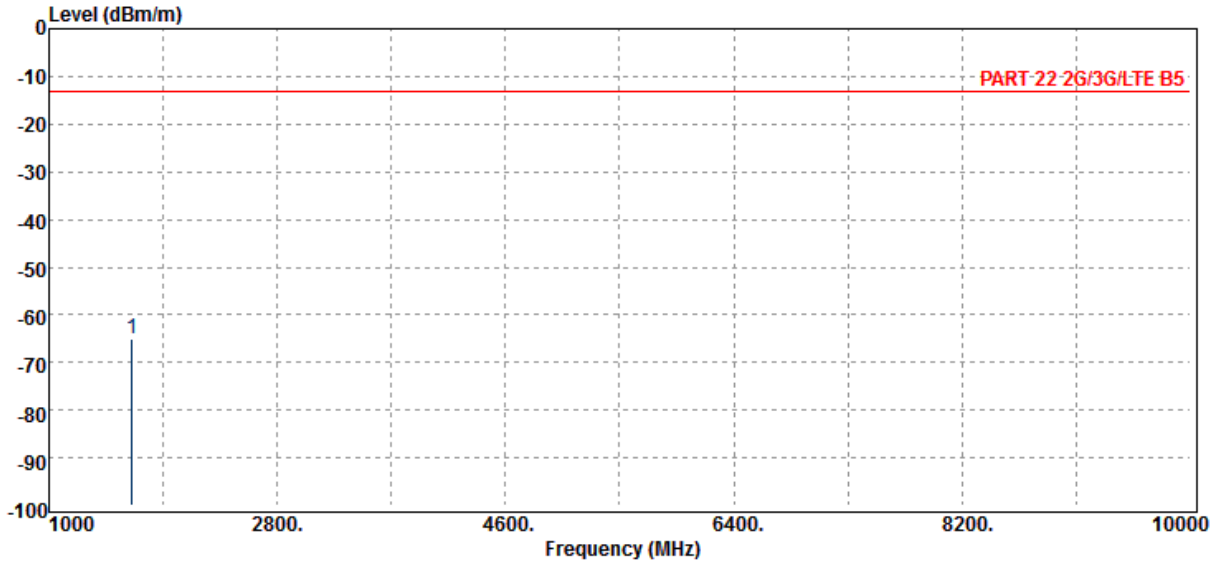
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Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

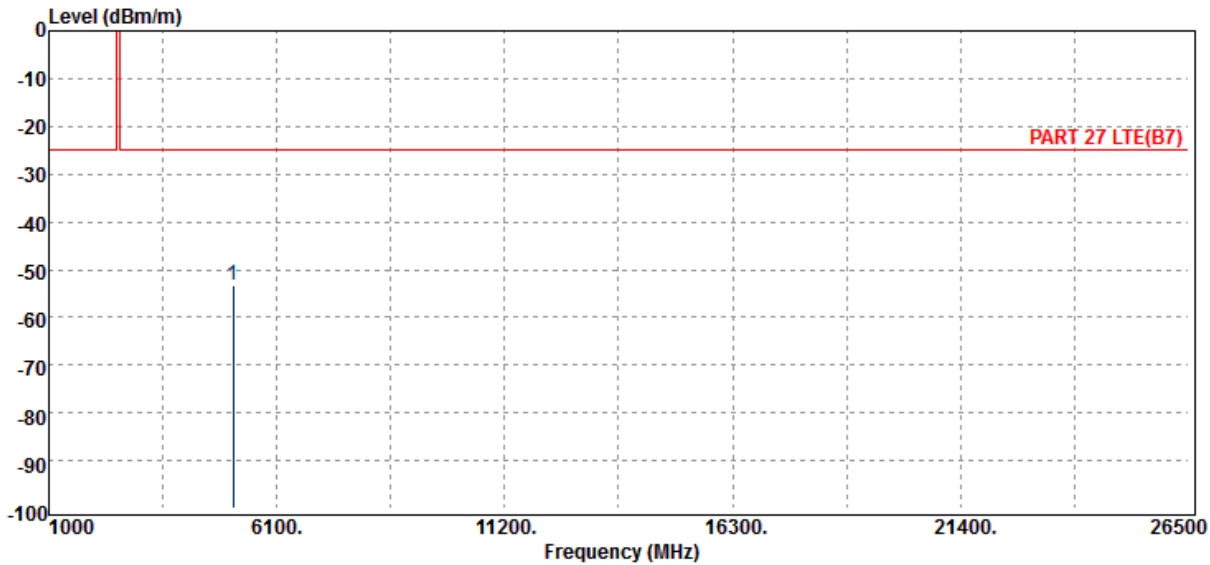


Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1653.00	H	-64.94	-67.83	7.12	-4.24	-13.00	-51.94

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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5130.00	H	-53.43	-58.27	12.75	-7.92	-25.00	-28.43

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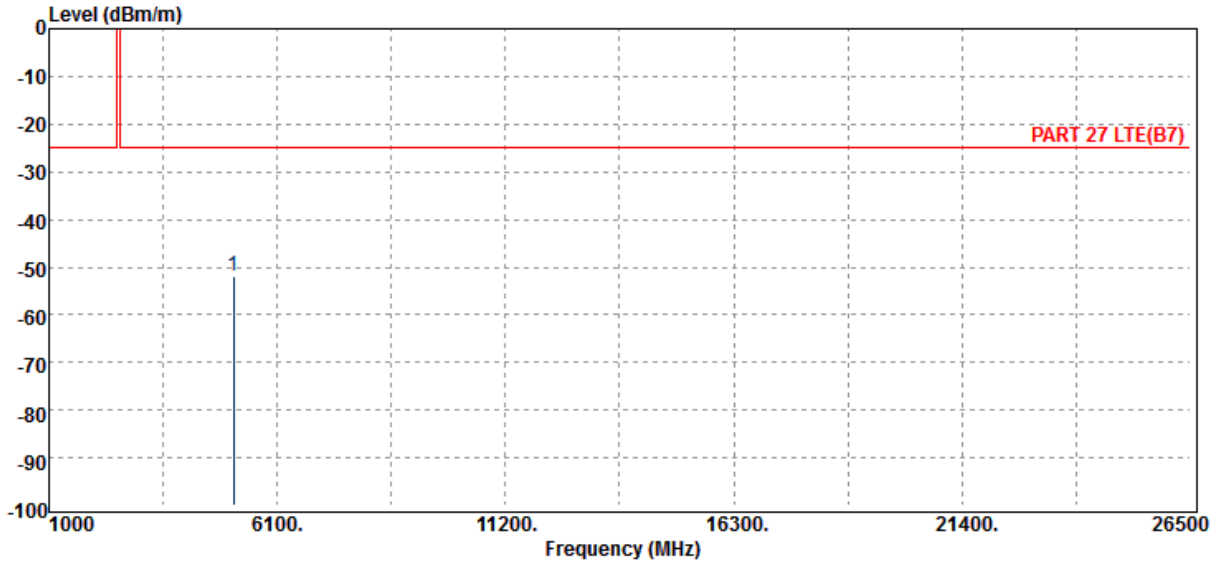
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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5130.00	H	-52.00	-56.84	12.75	-7.92	-25.00	-27.00

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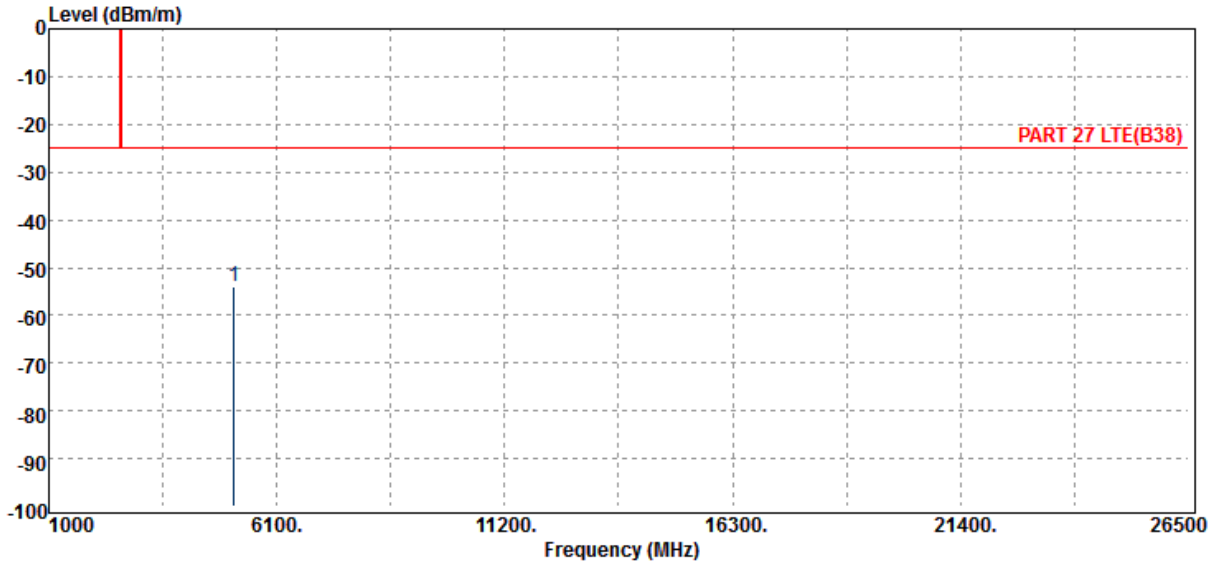
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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	Fre-:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		

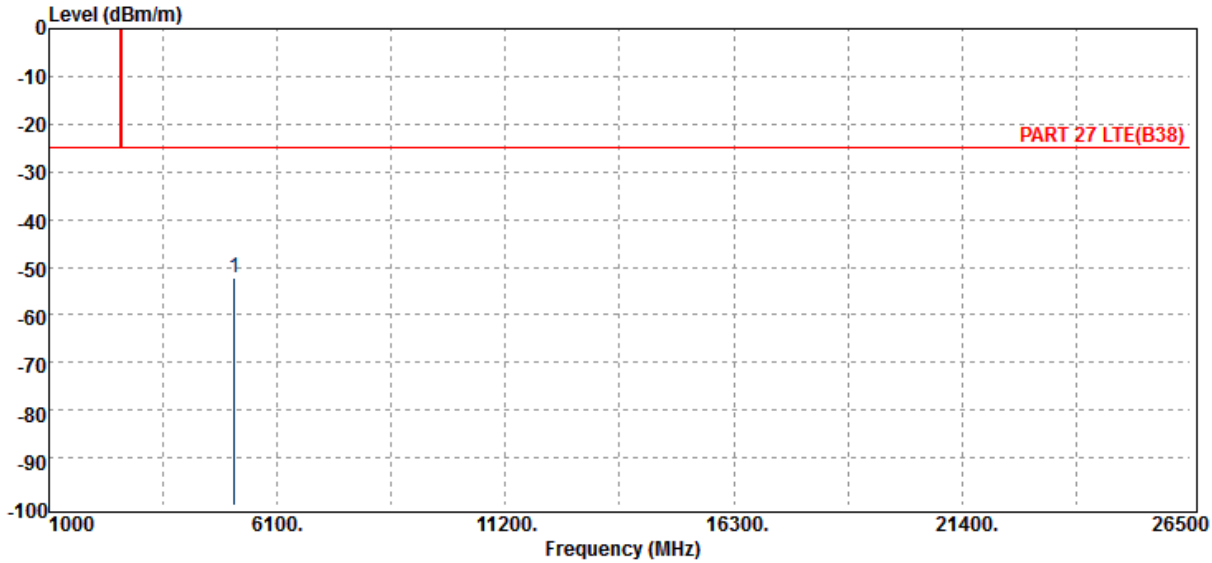


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5145.00	H	-53.87	-58.69	12.76	-7.94	-25.00	-28.87

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5145.00	H	-52.12	-56.94	12.76	-7.94	-25.00	-27.12

~ End of Report ~

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