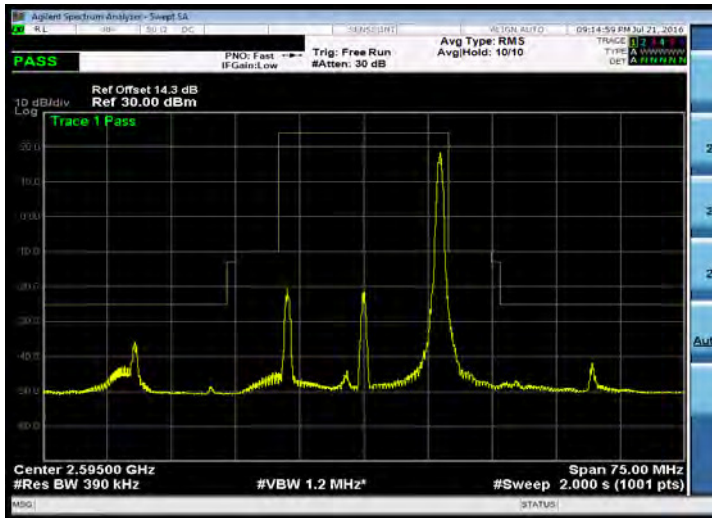
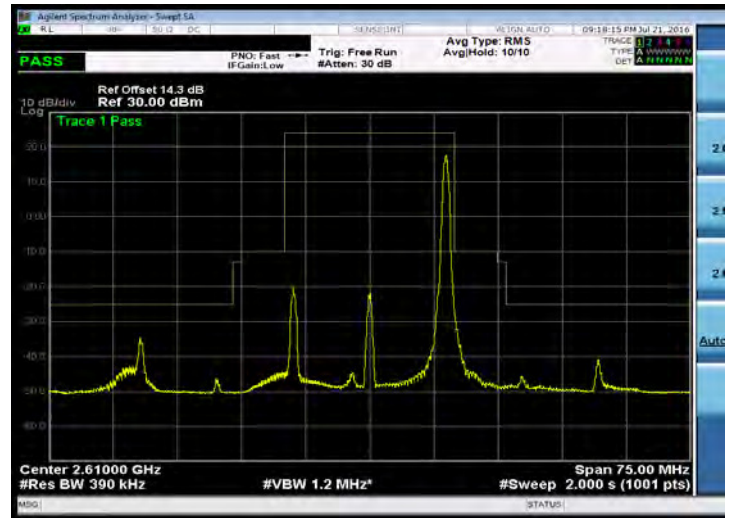


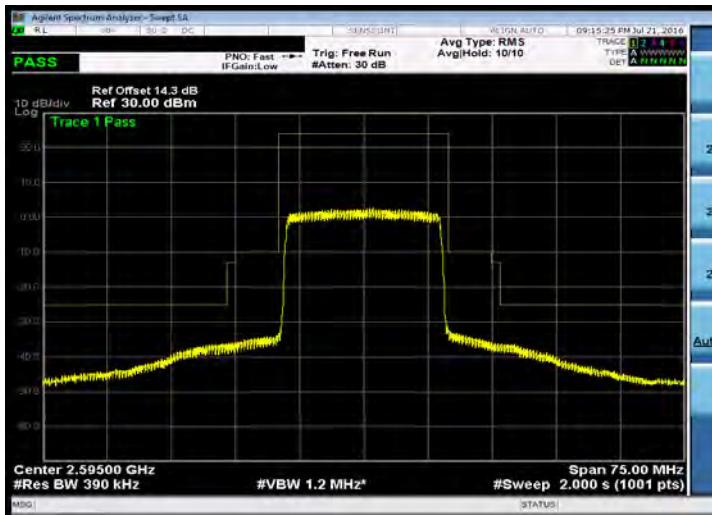
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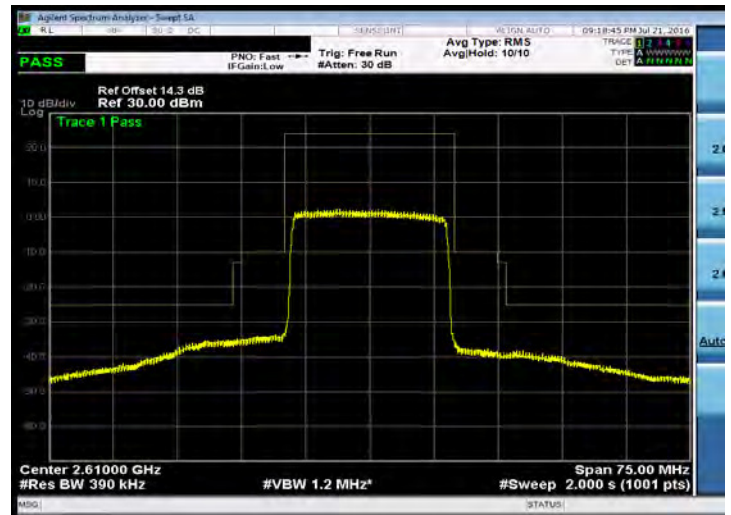
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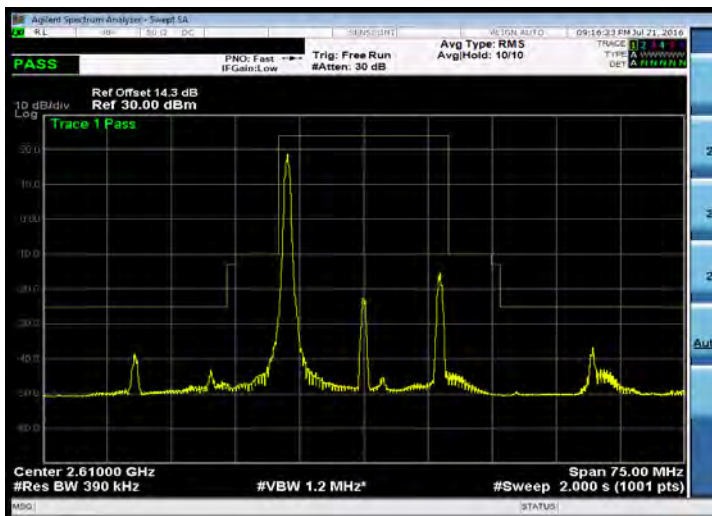
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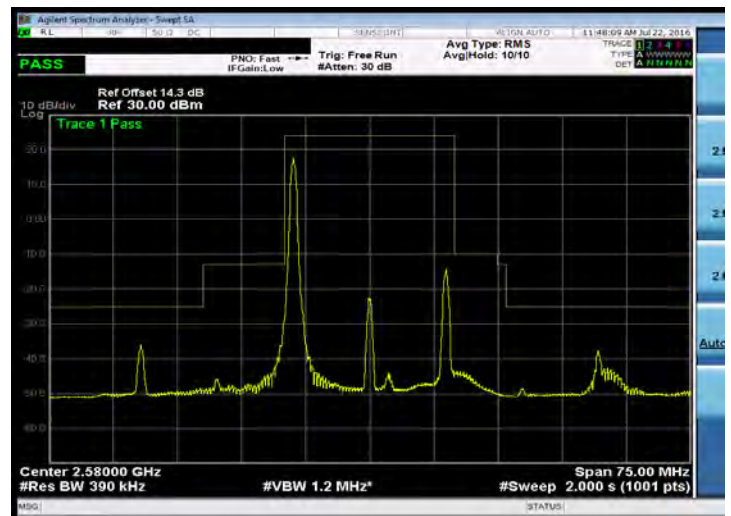
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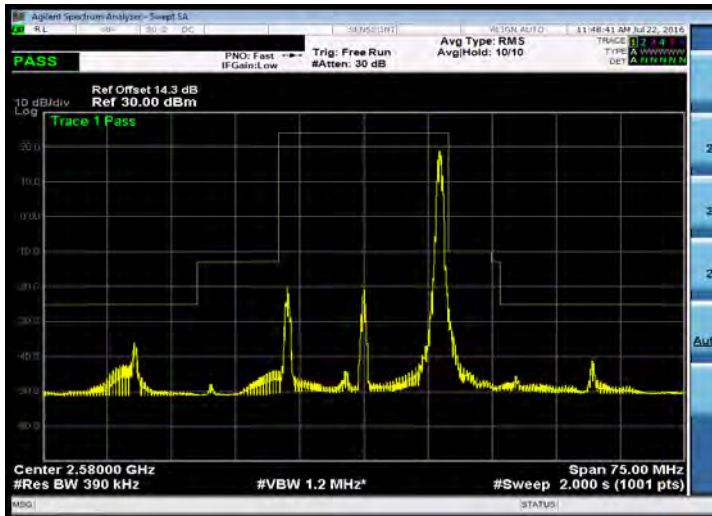
t (886-2) 2299-3279

f (886-2) 2298-0488

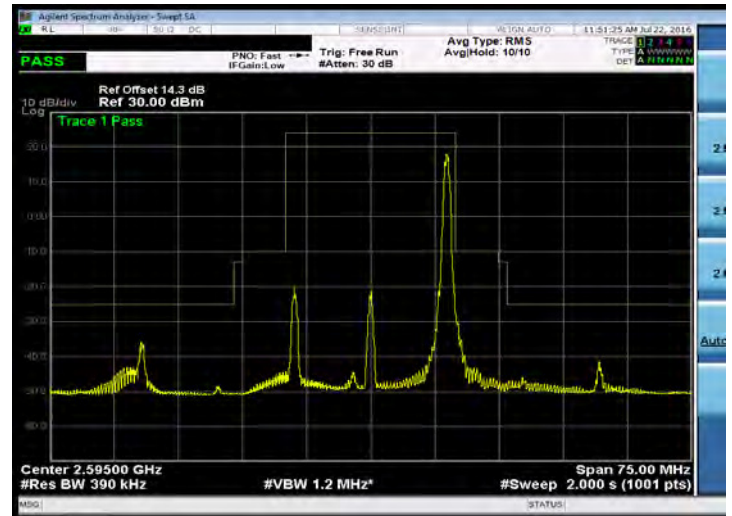
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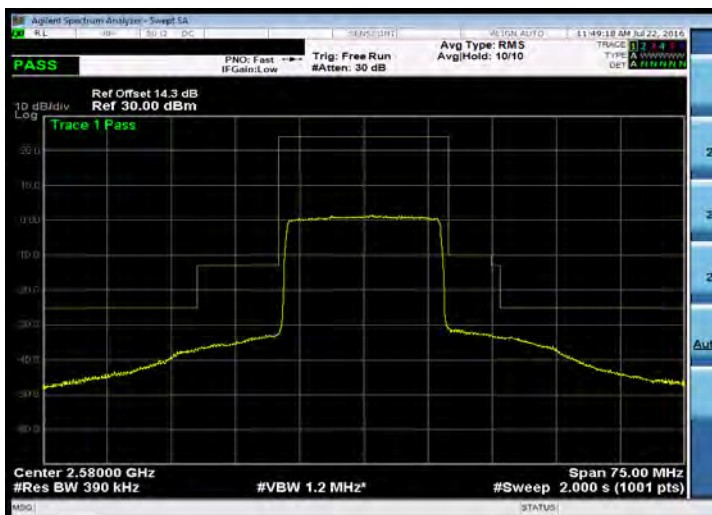
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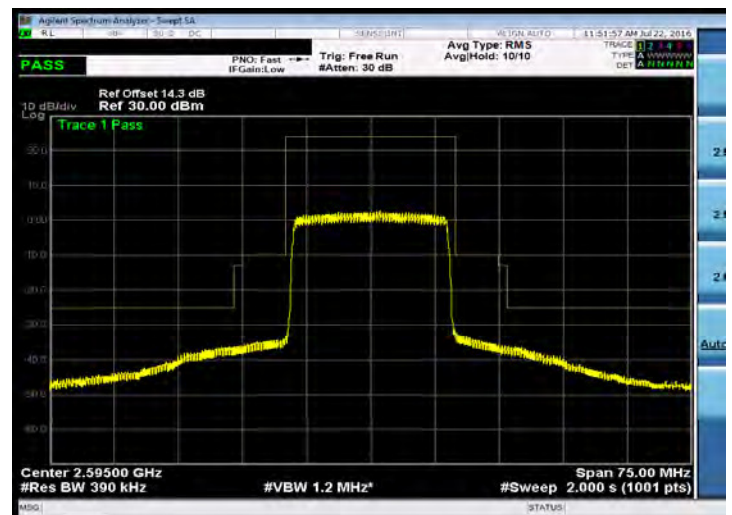
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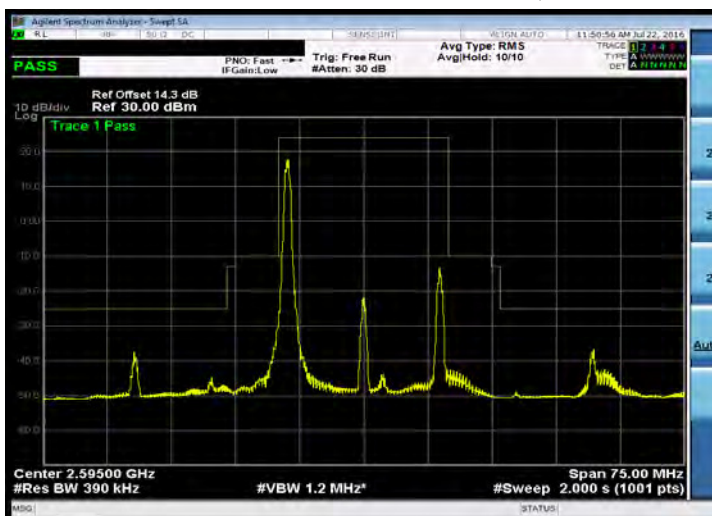
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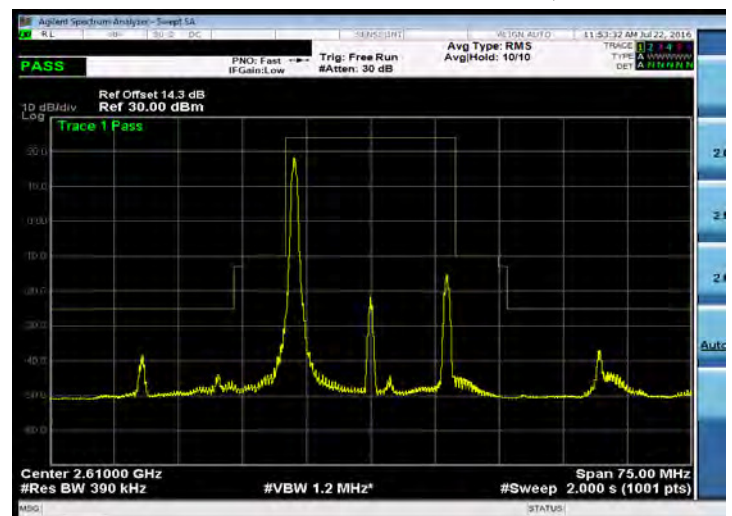
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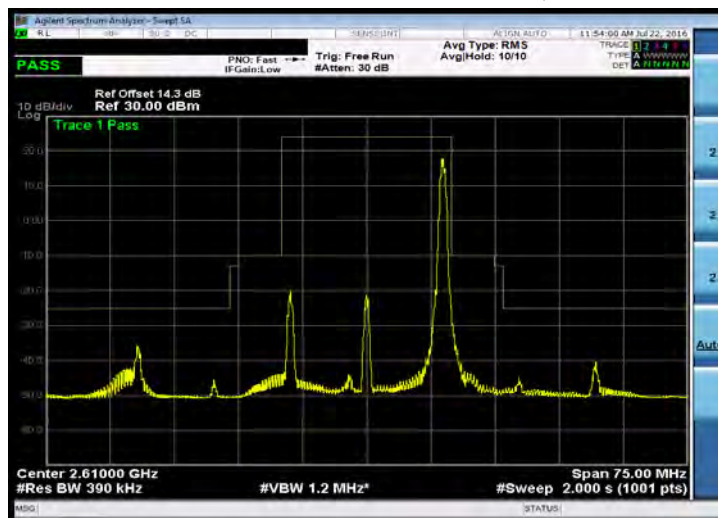
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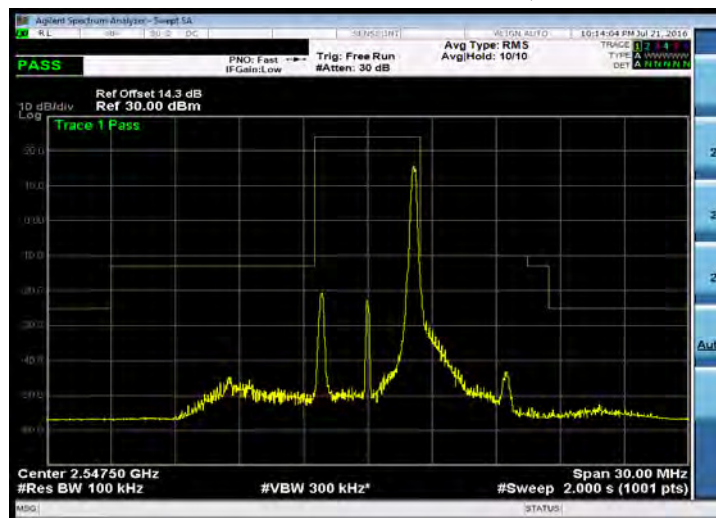
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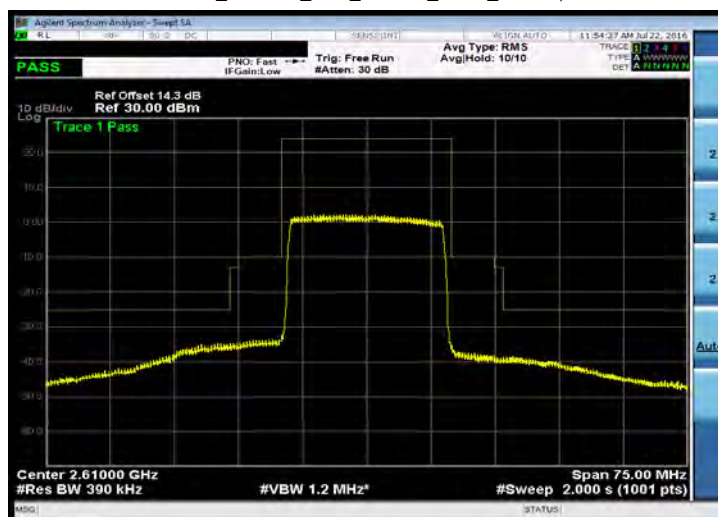
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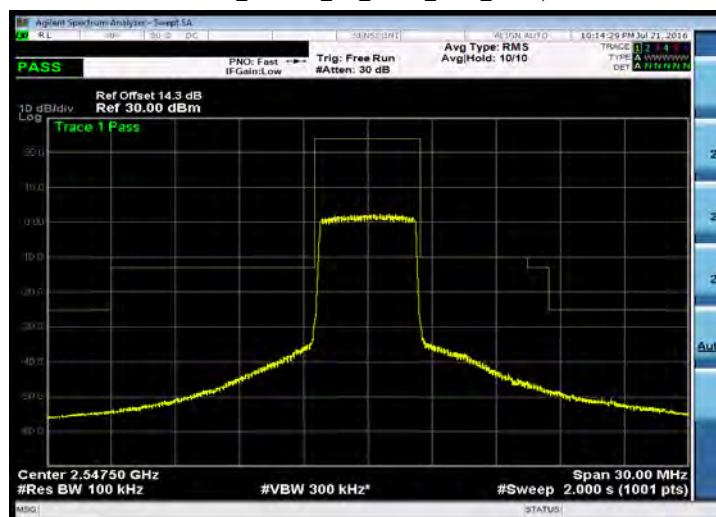
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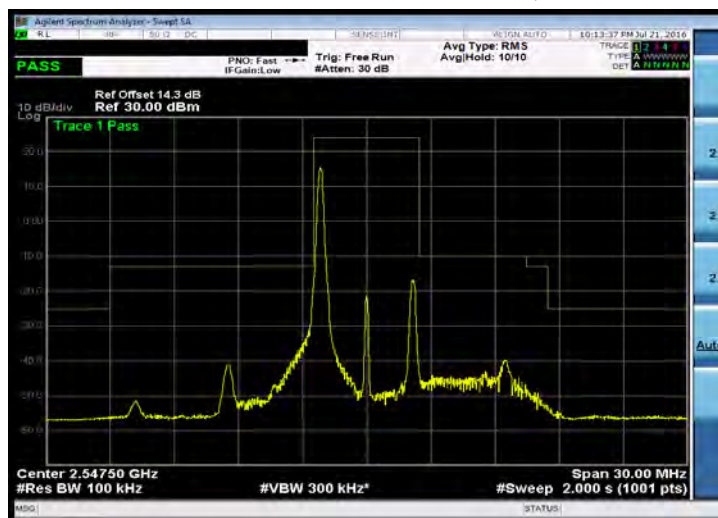
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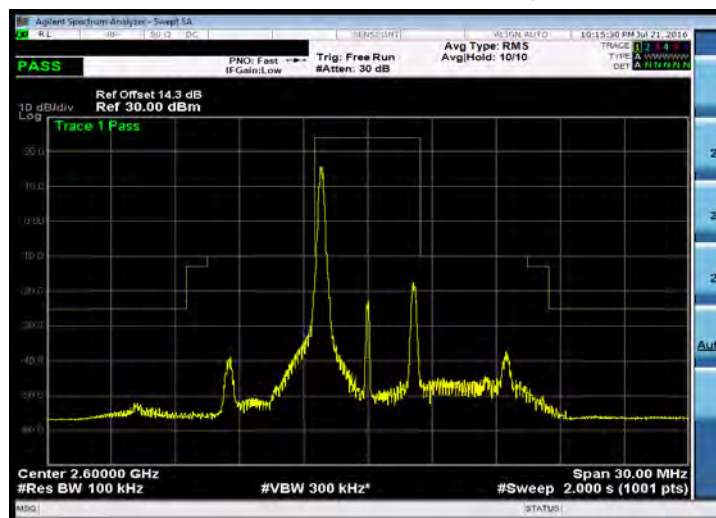
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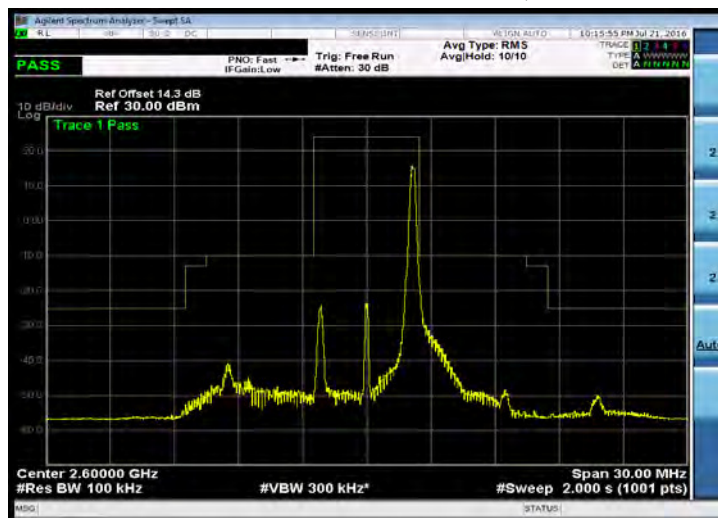
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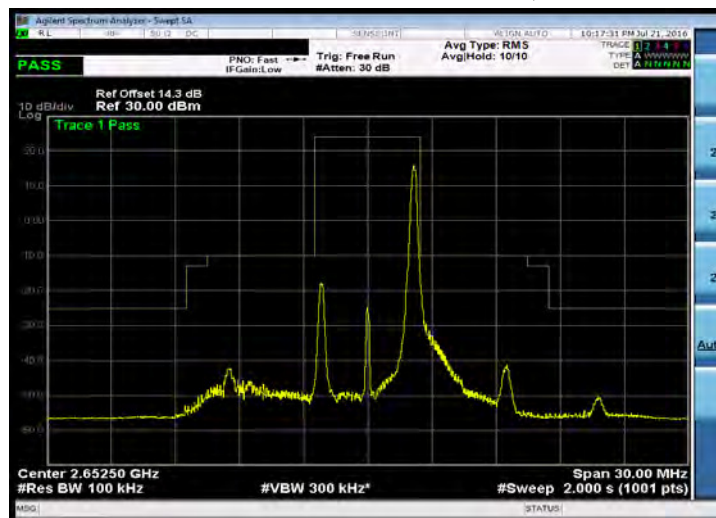
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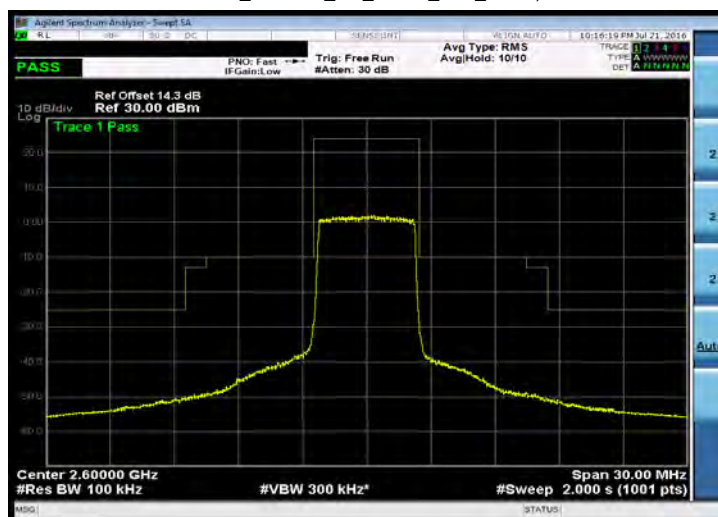
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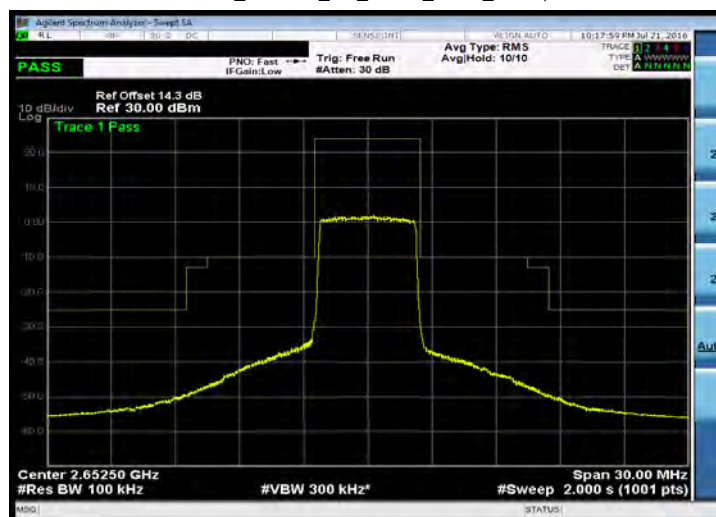
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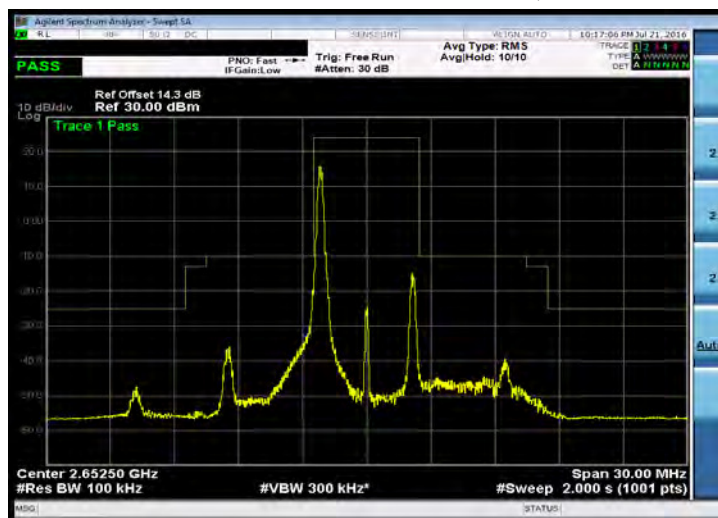
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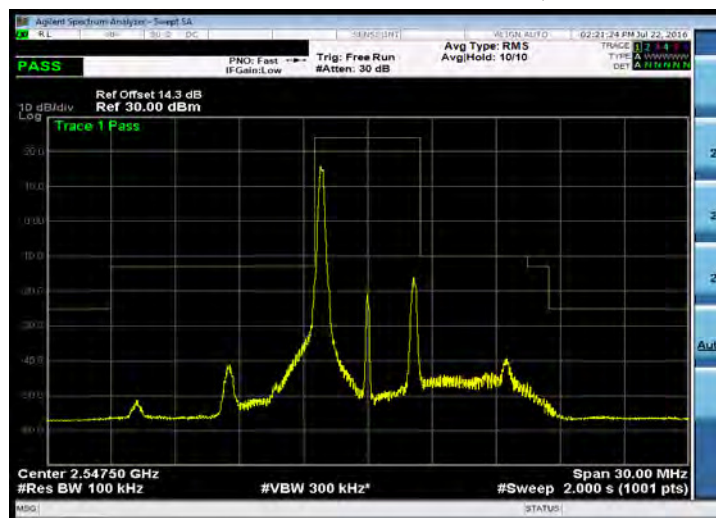
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Emission Mask_Band 41_5M_16QAM_LOW_RB1,0



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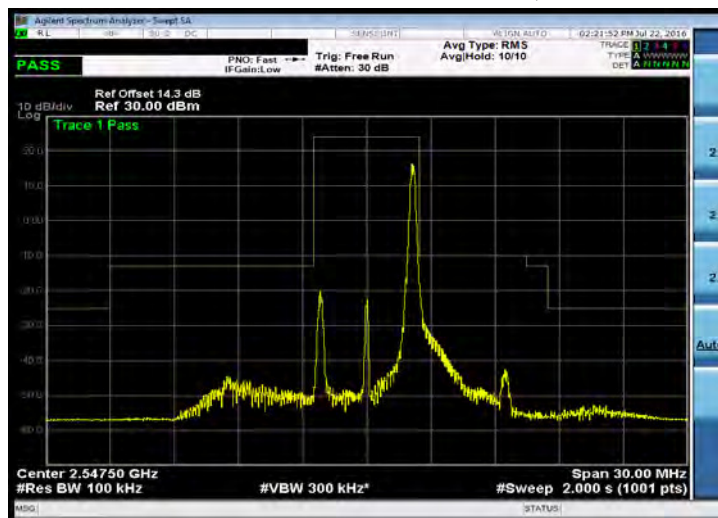
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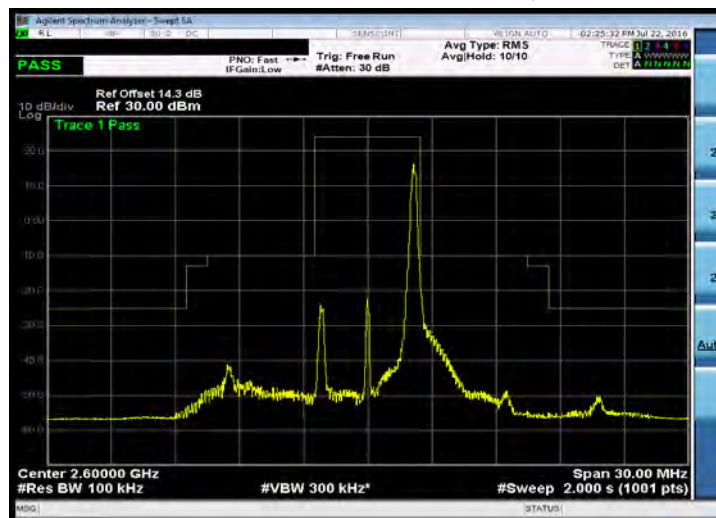
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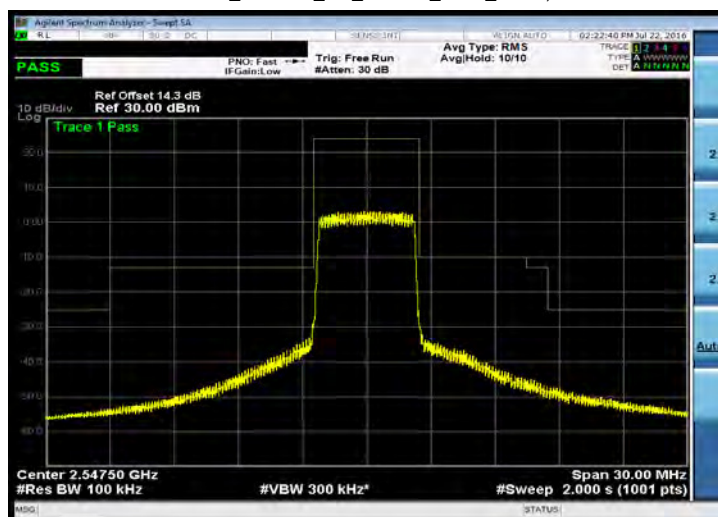
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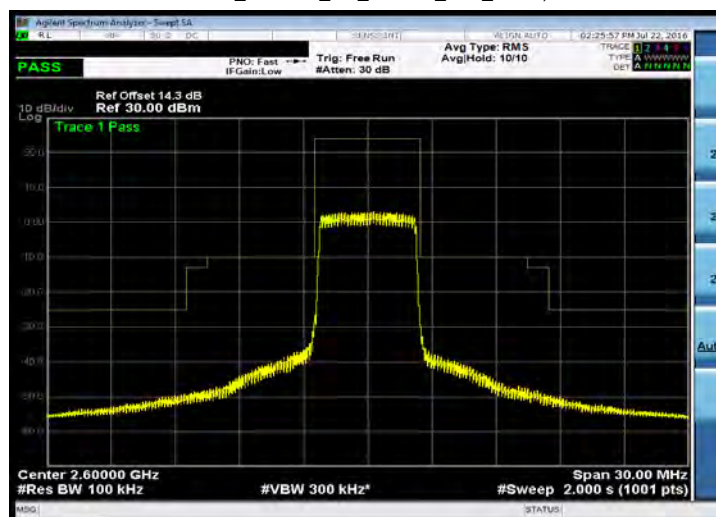
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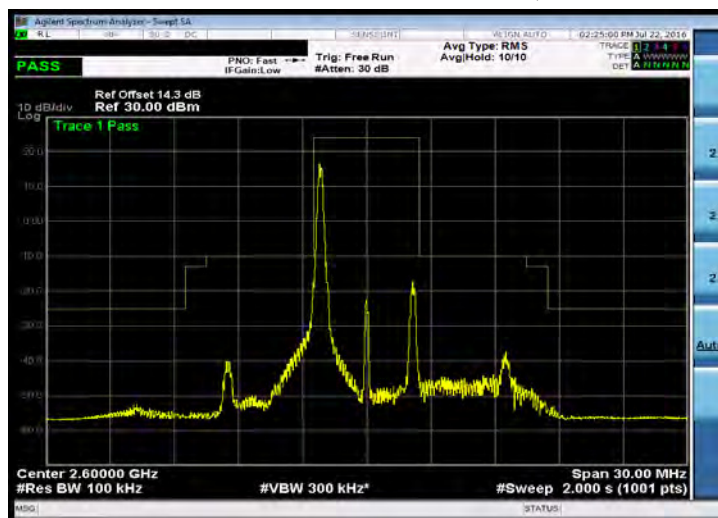
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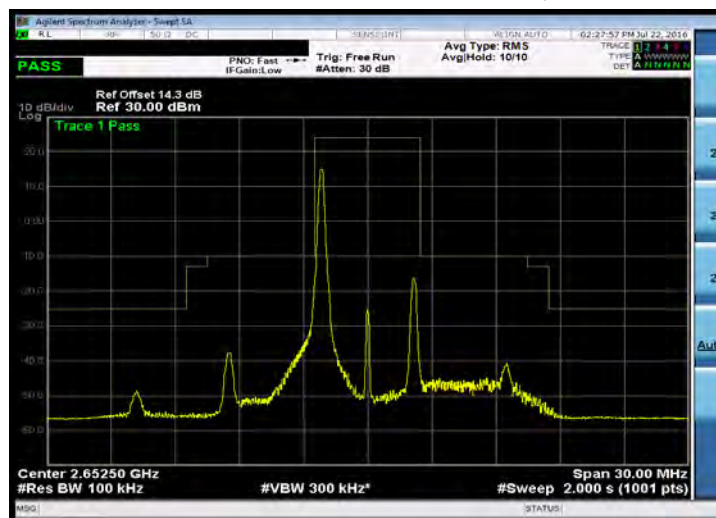
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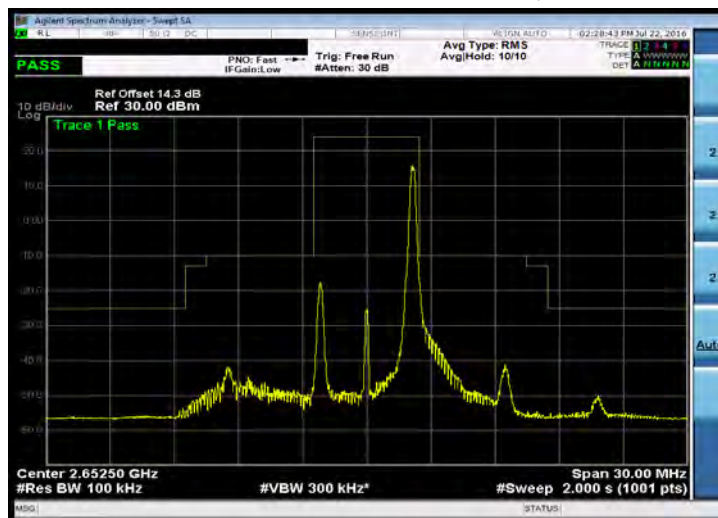
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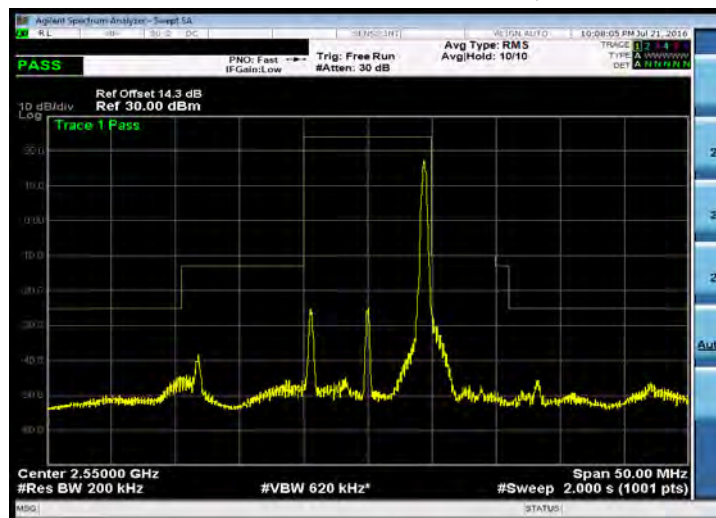
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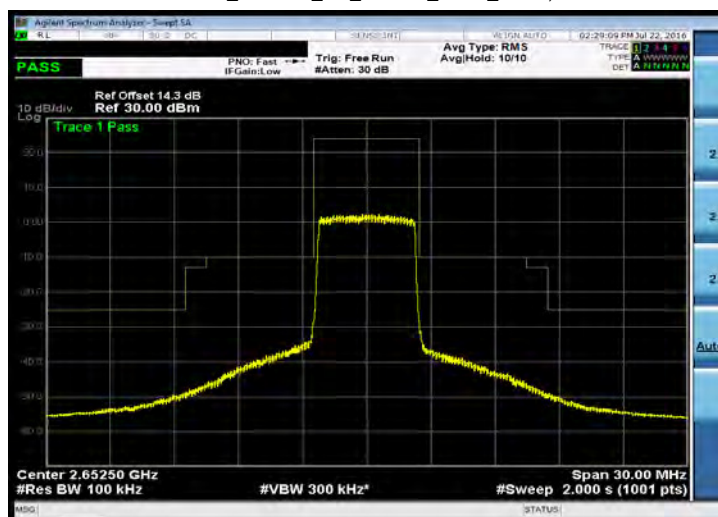
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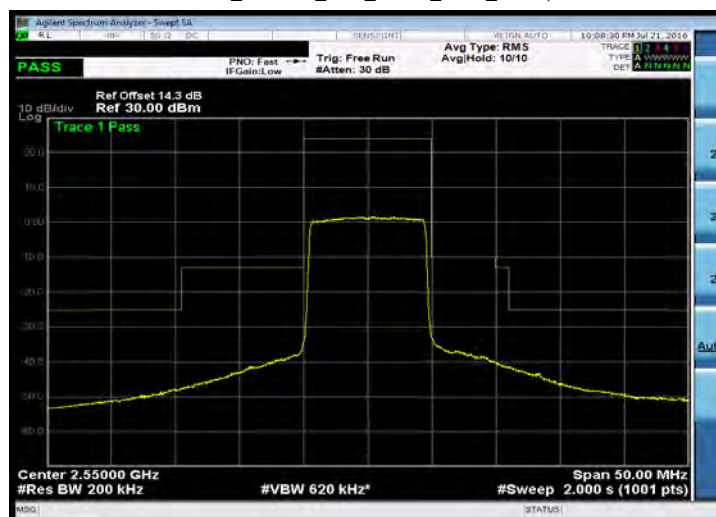
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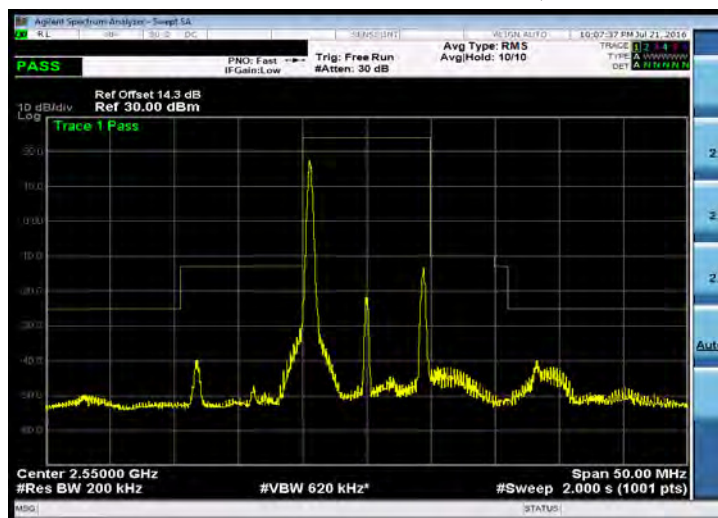
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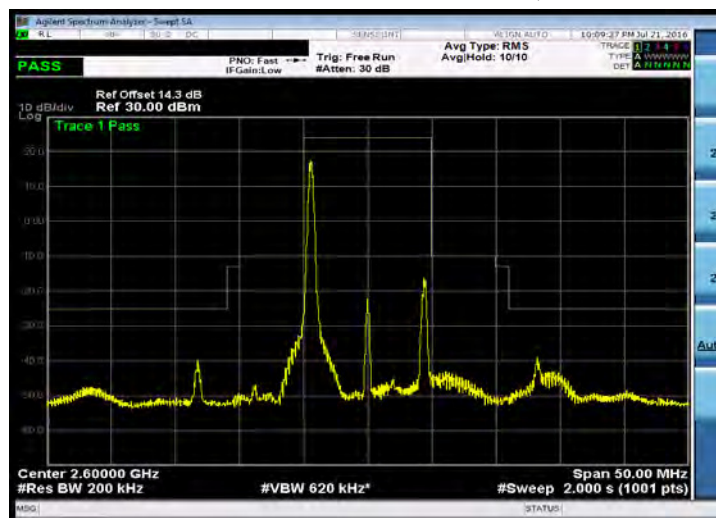
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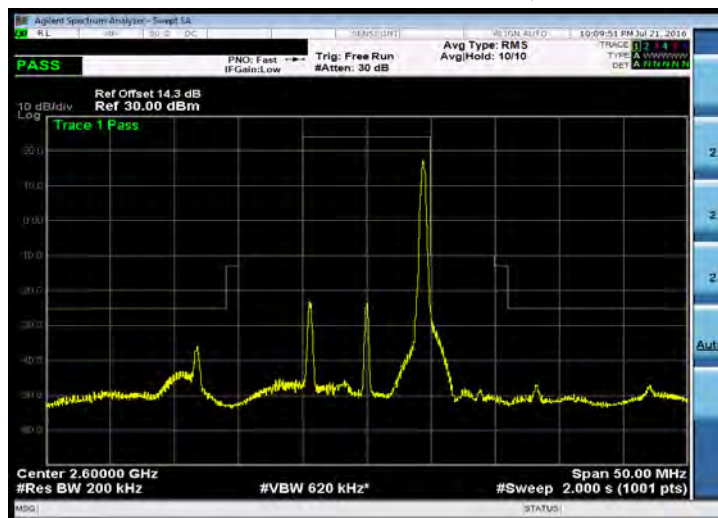
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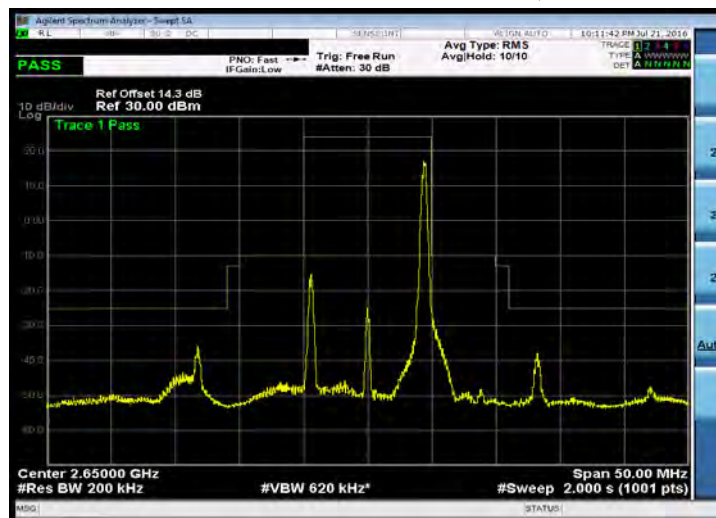
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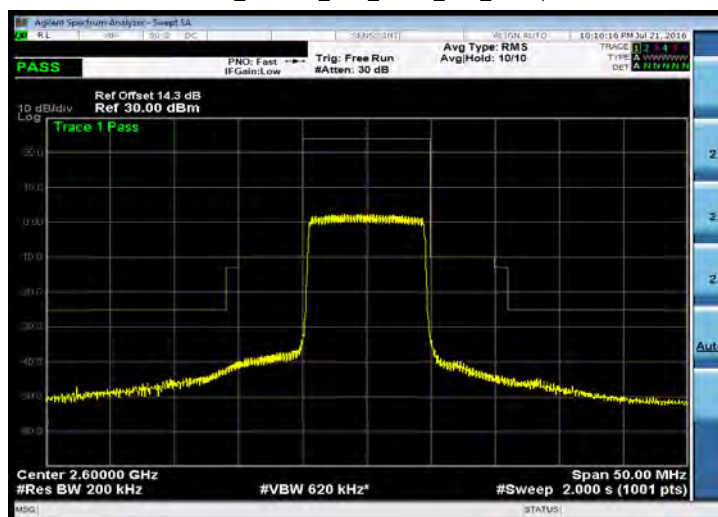
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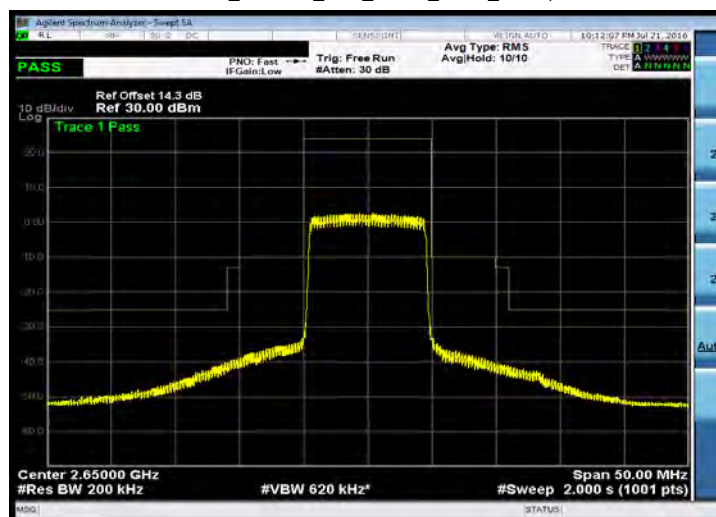
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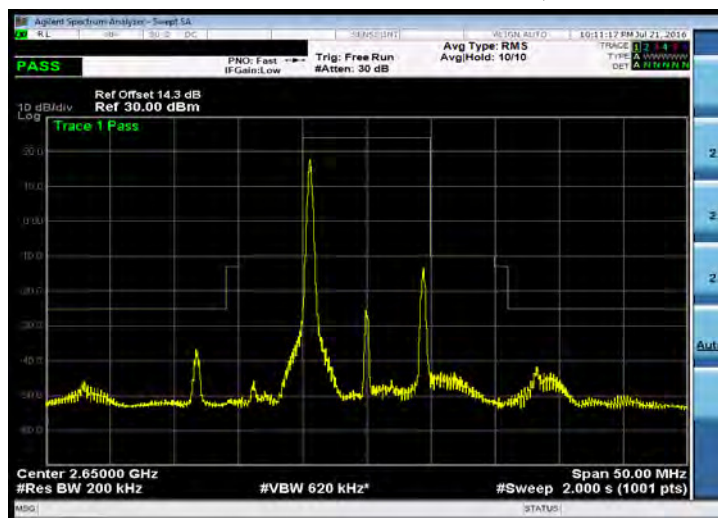
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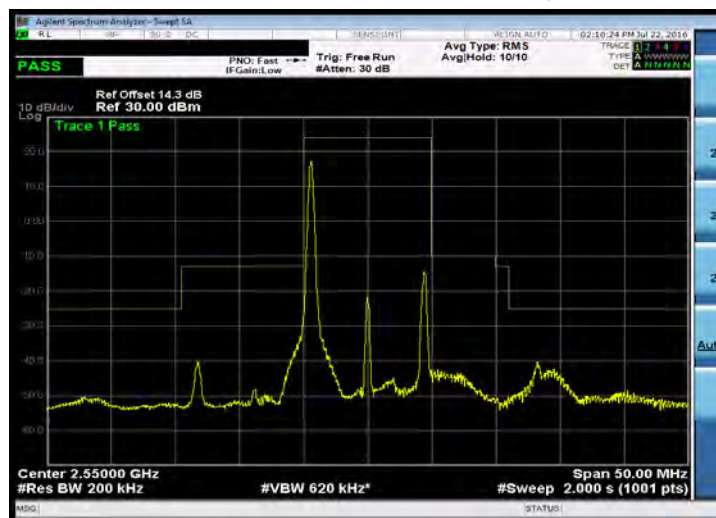
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Emission Mask_Band 41_10M_QPSK_HIGH_RB1,0



Emission Mask_Band 41_10M_16QAM_LOW_RB1,0



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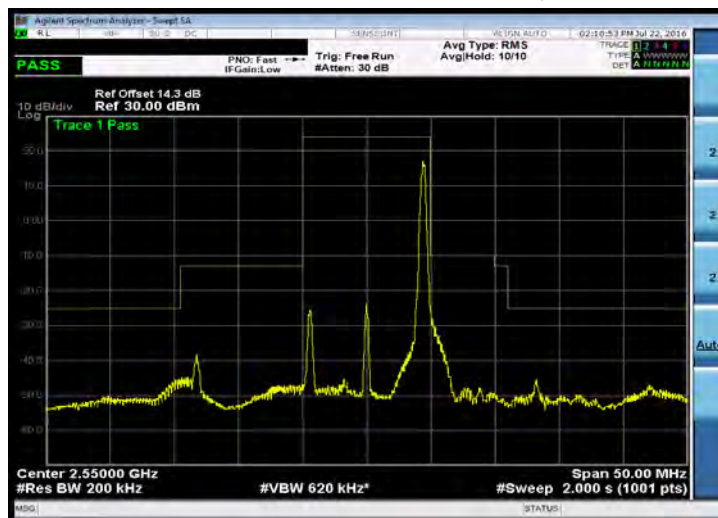
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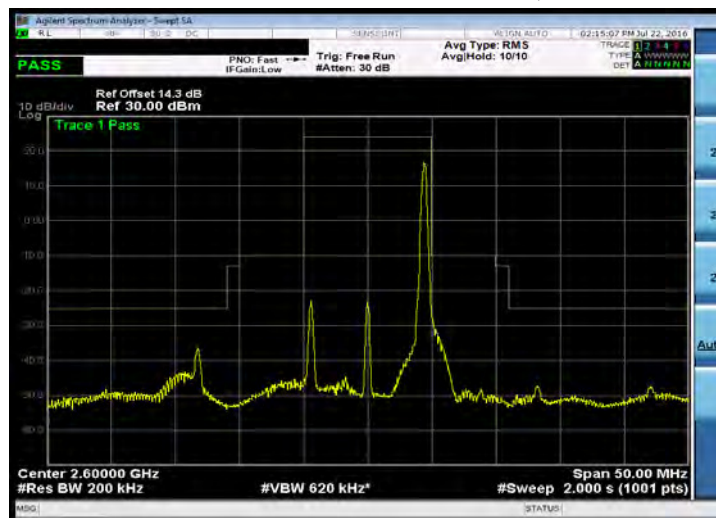
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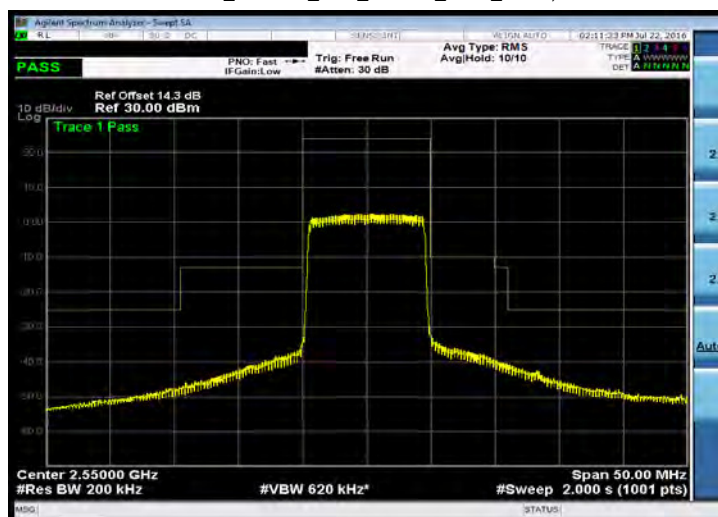
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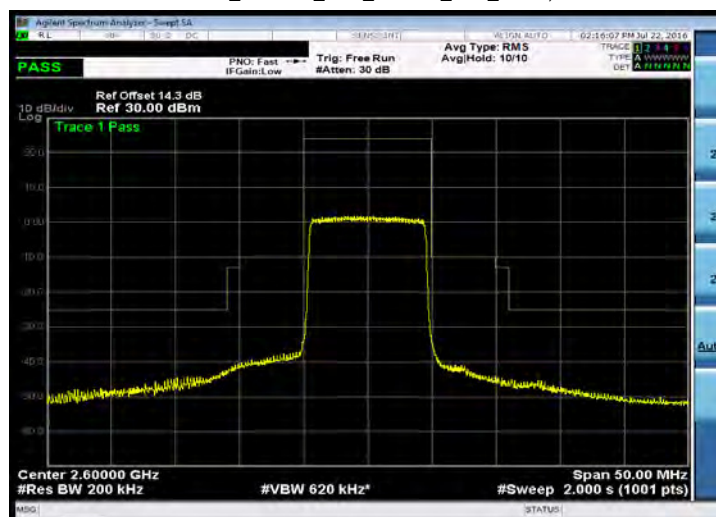
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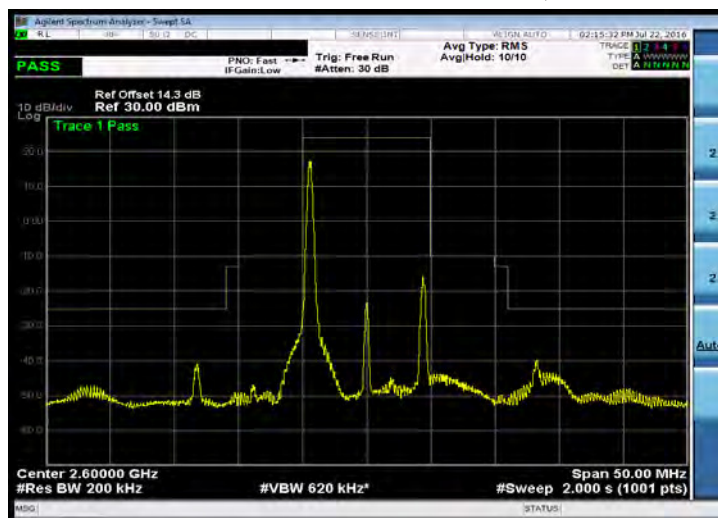
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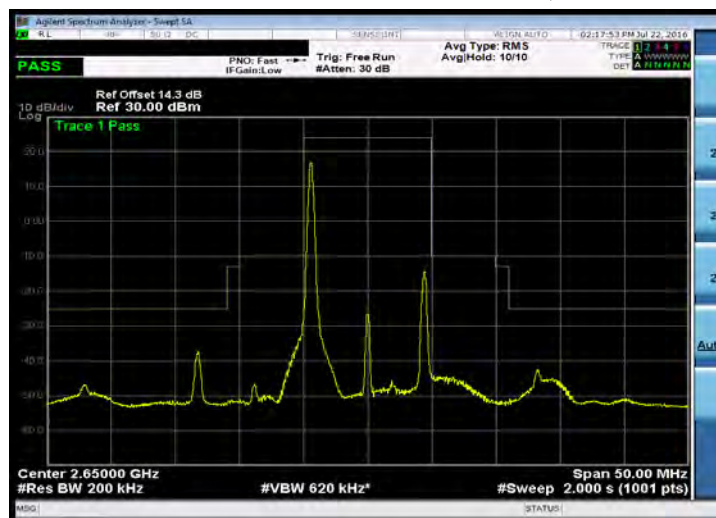
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Emission Mask_Band 41_10M_16QAM_HIGH_RB1,0



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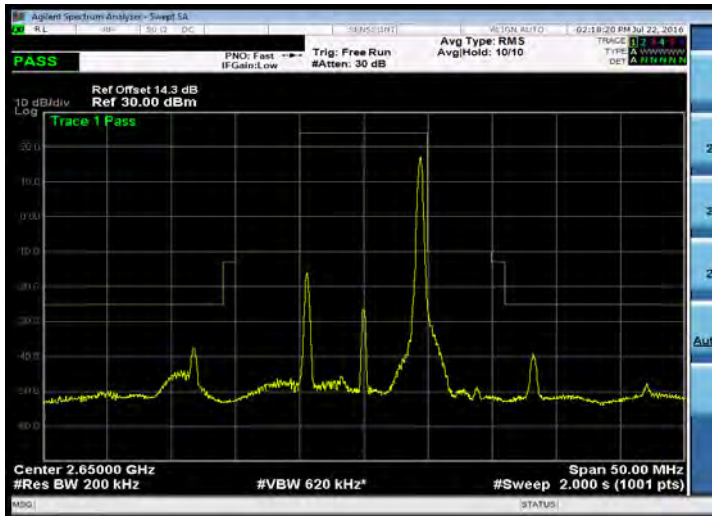
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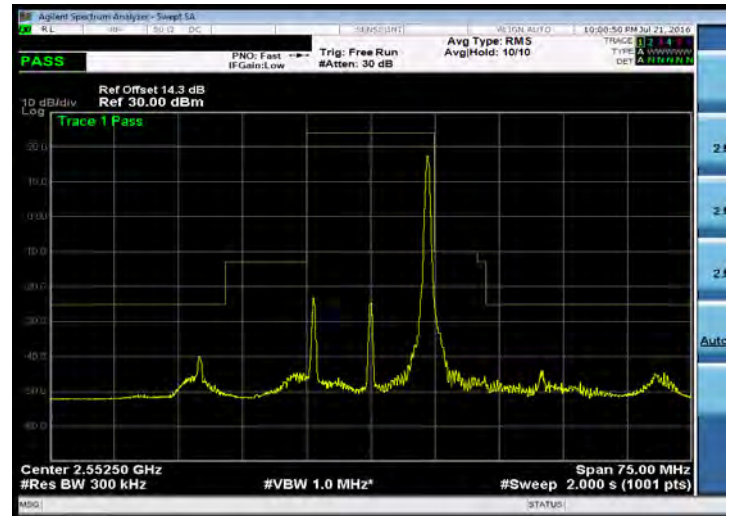
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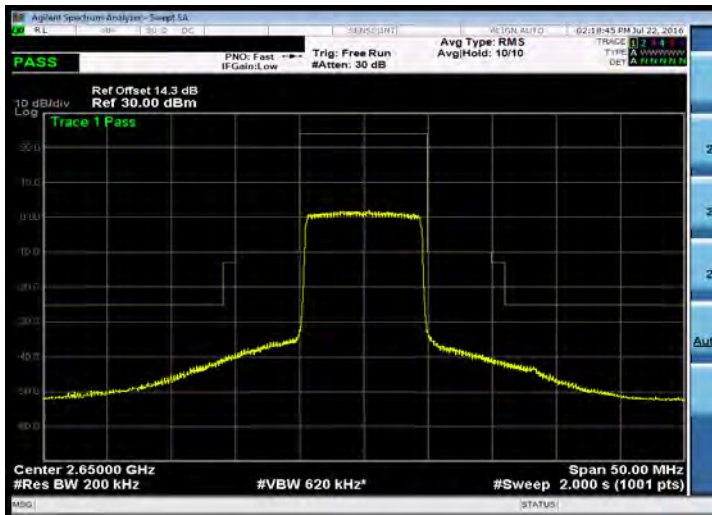
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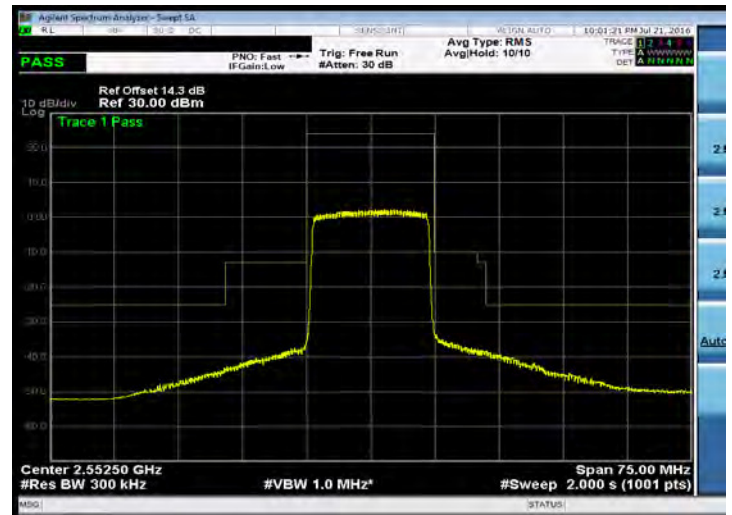
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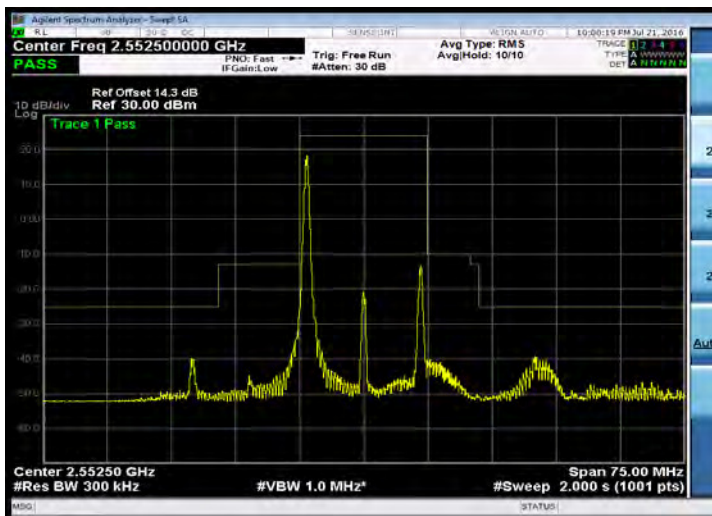
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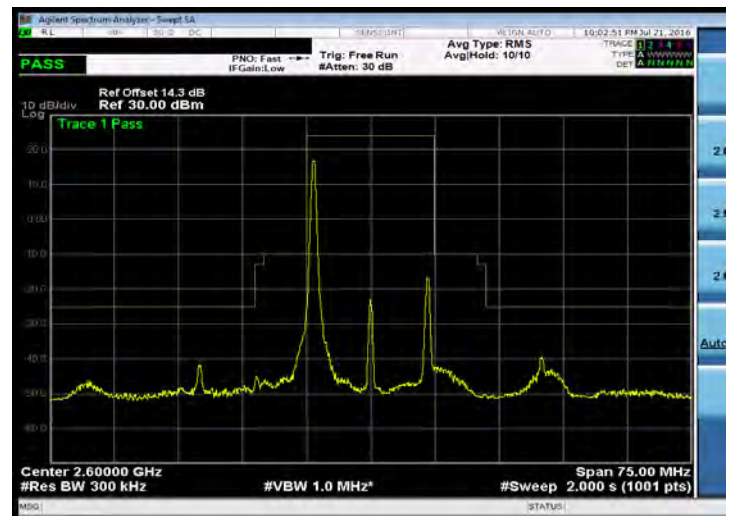
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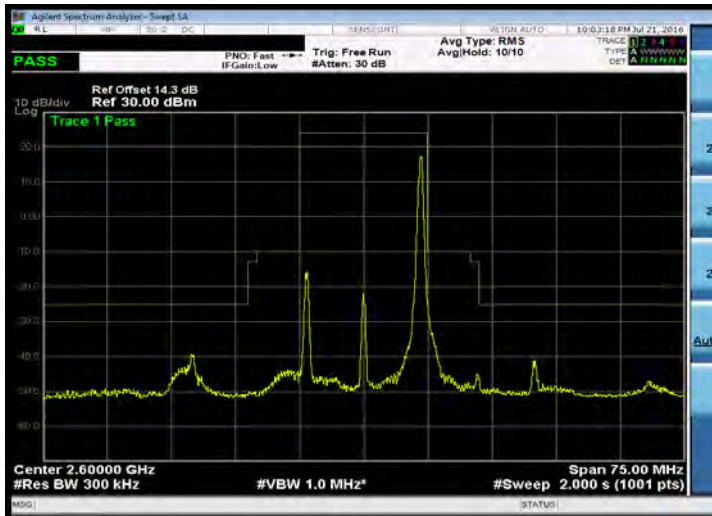
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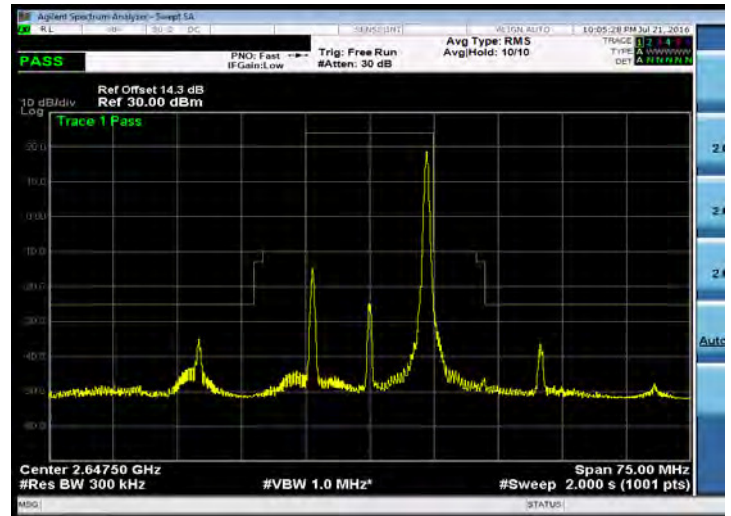
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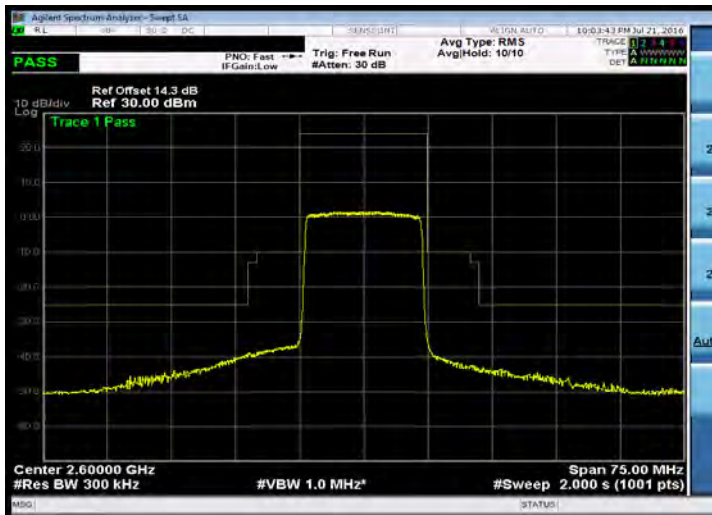
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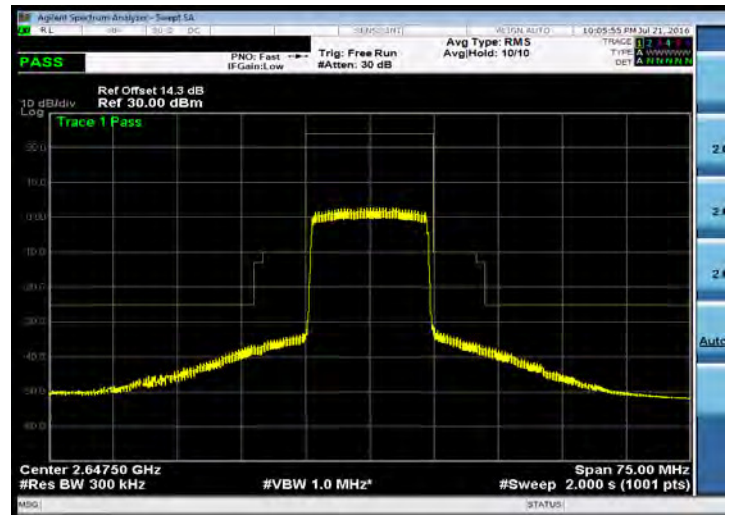
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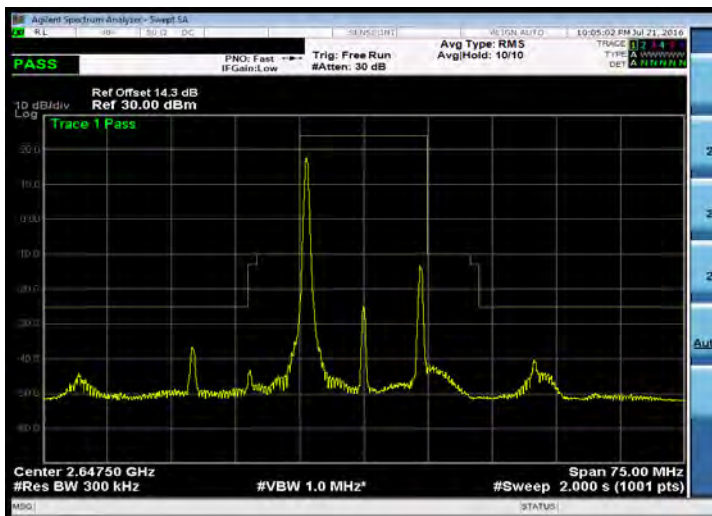
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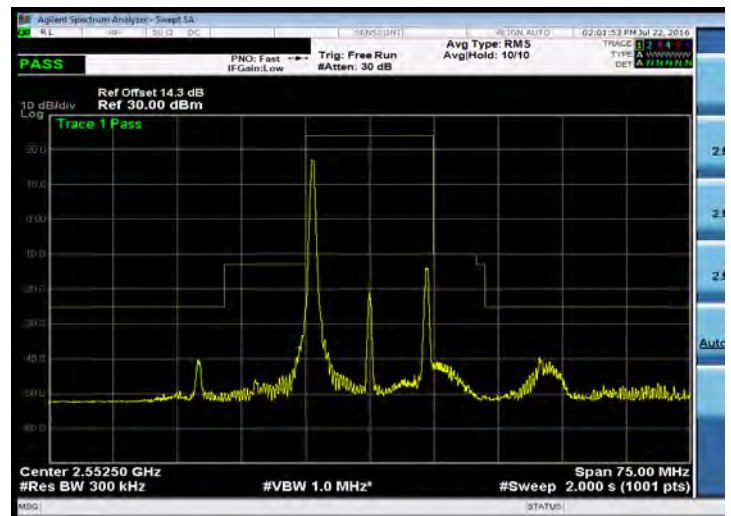
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Emission Mask_Band 41_15M_16QAM_LOW_RB1,0



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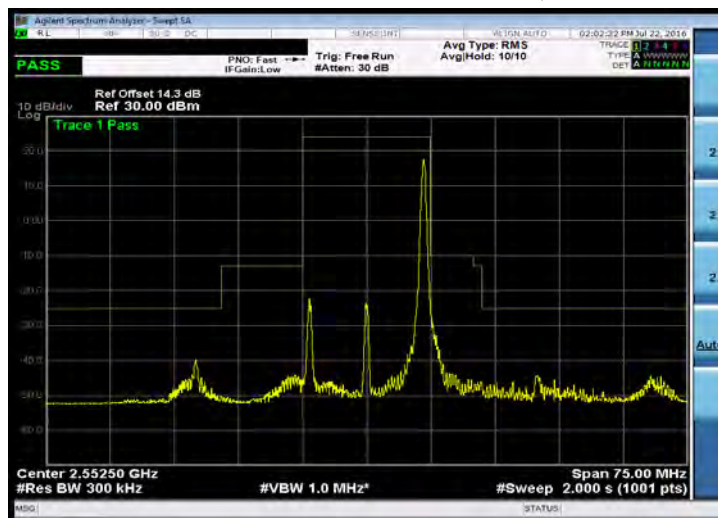
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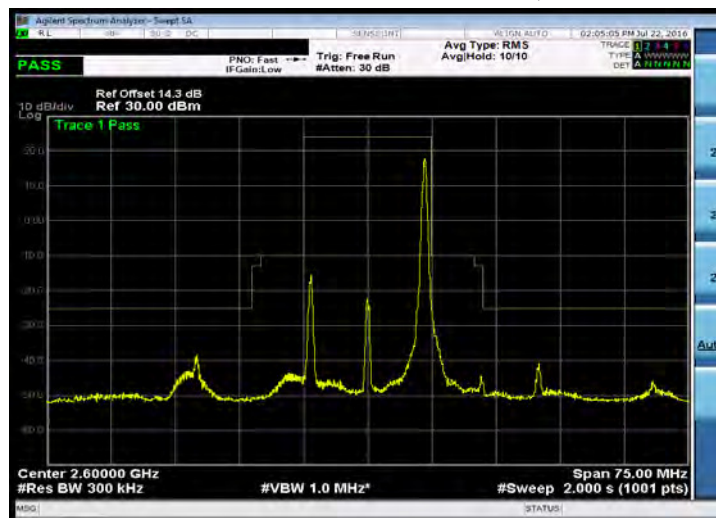
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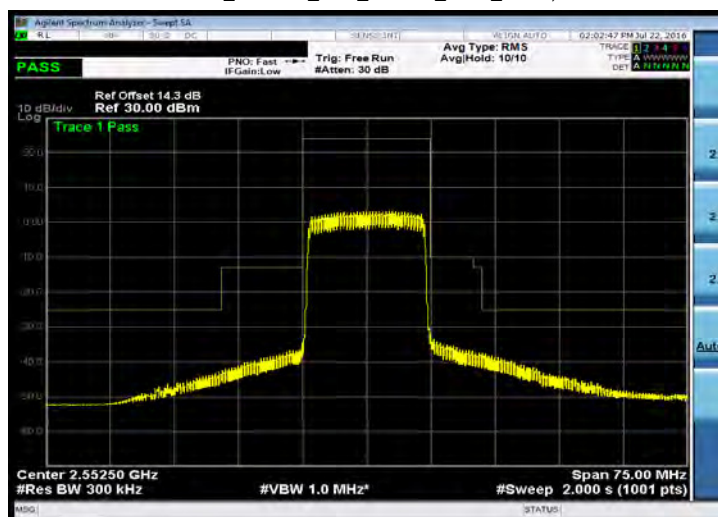
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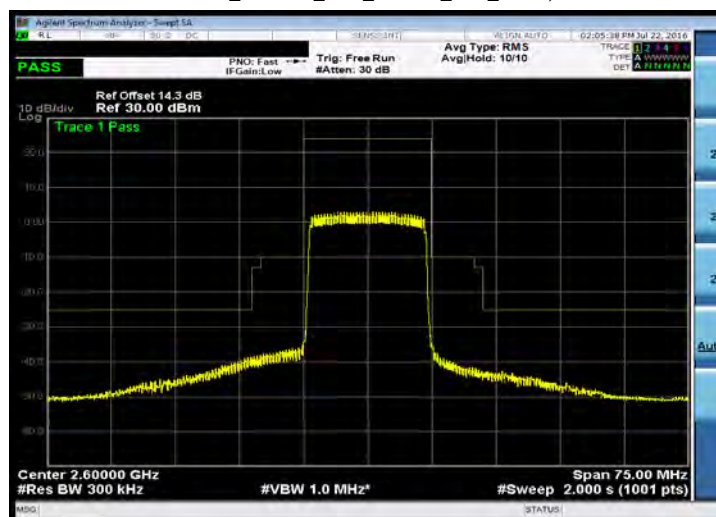
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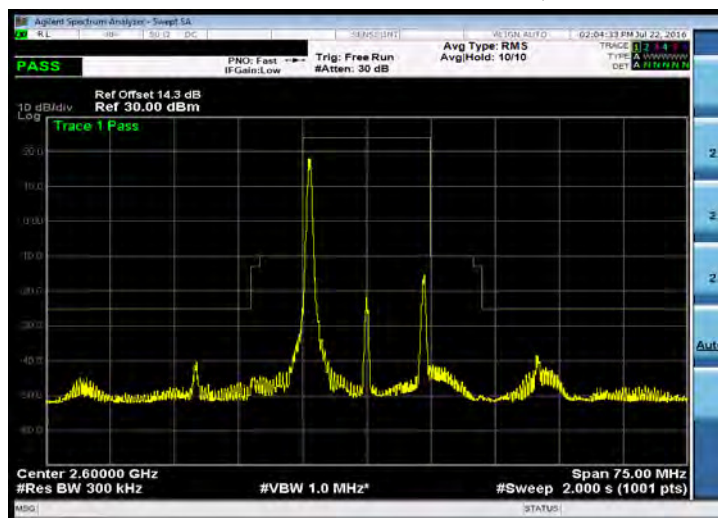
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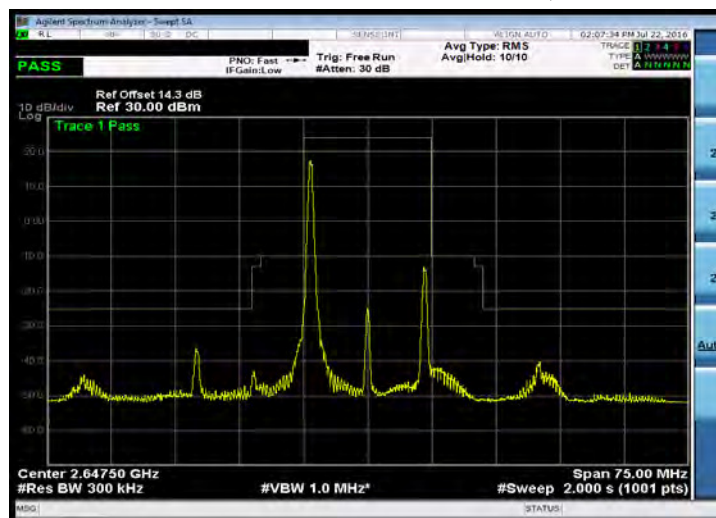
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Emission Mask_Band 41_15M_16QAM_HIGH_RB1,0



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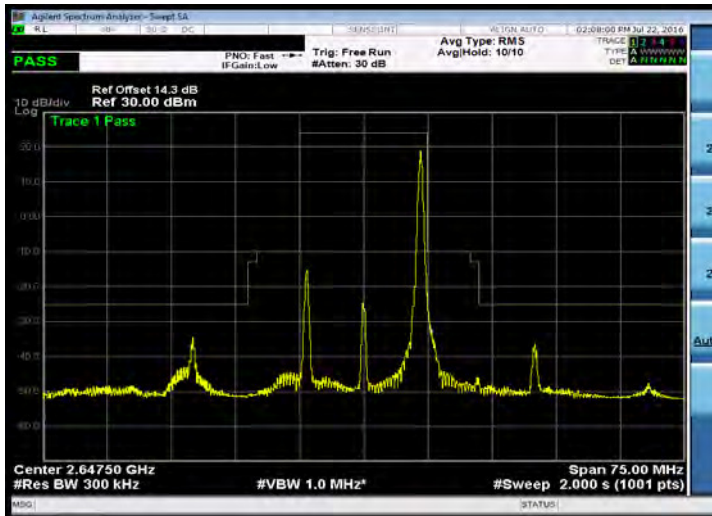
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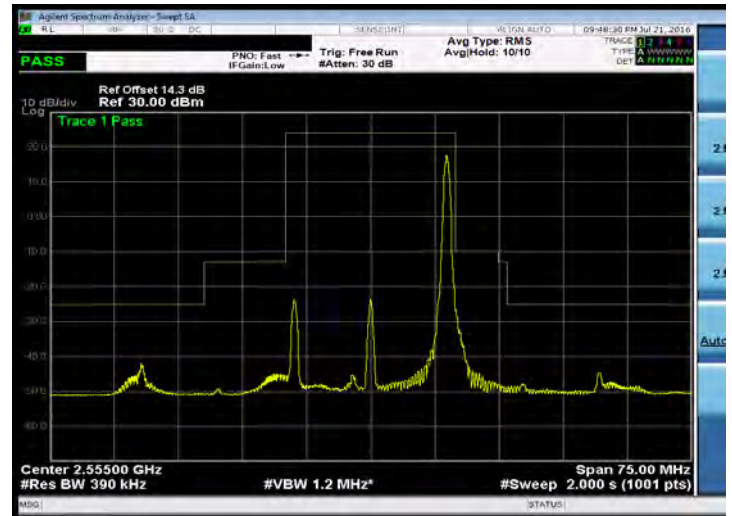
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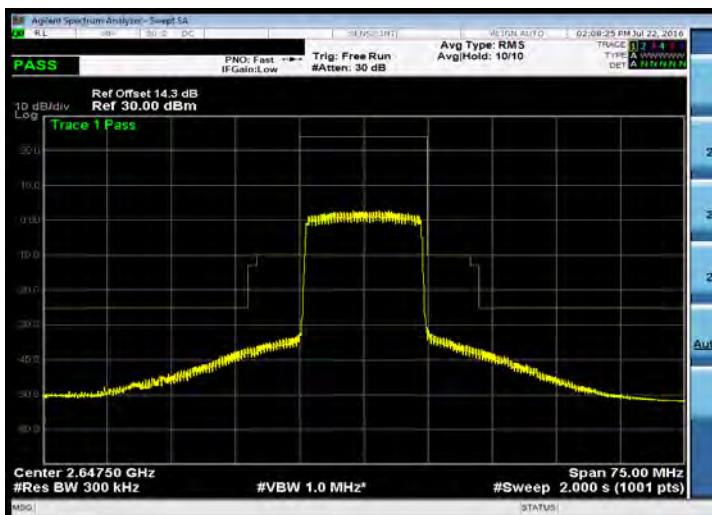
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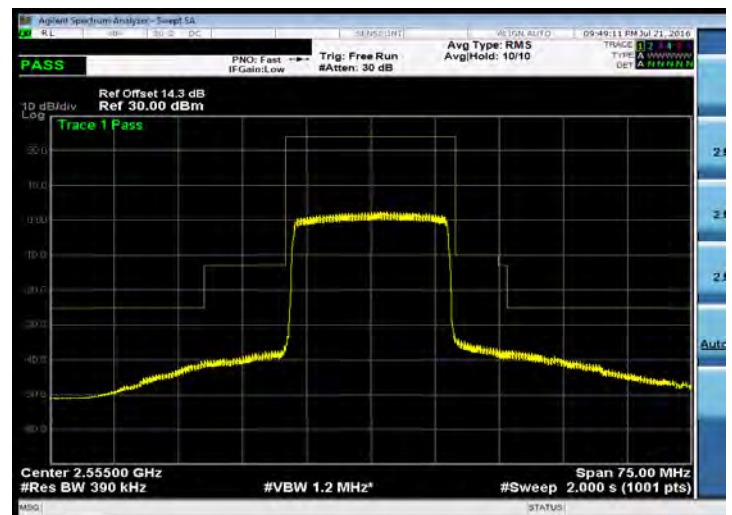
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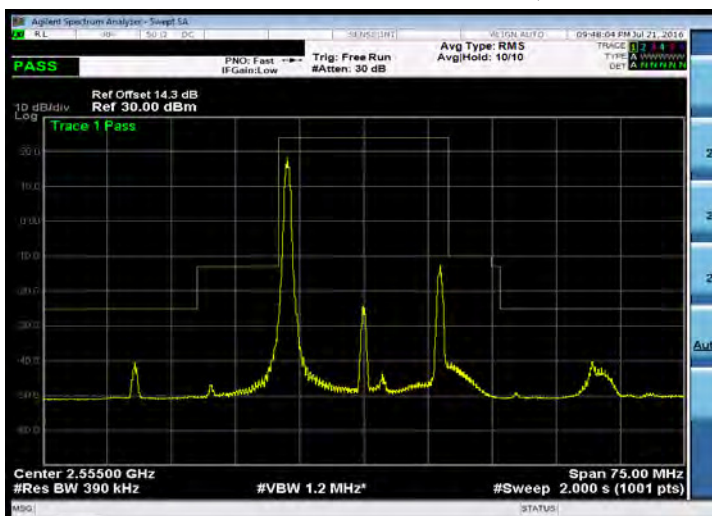
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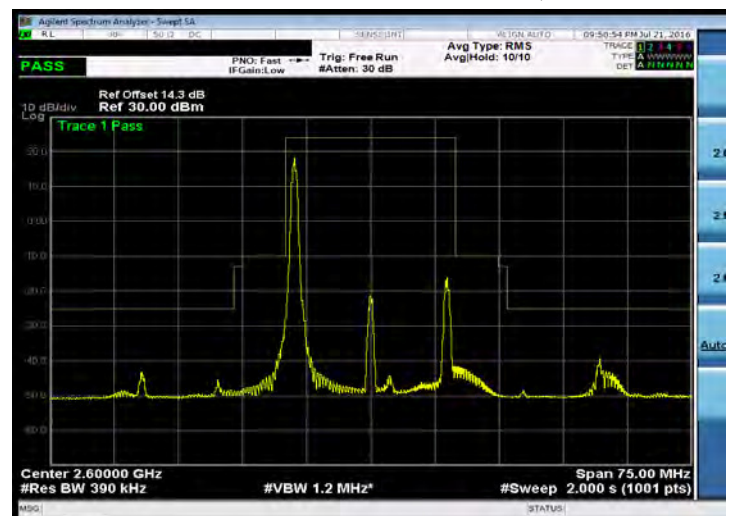
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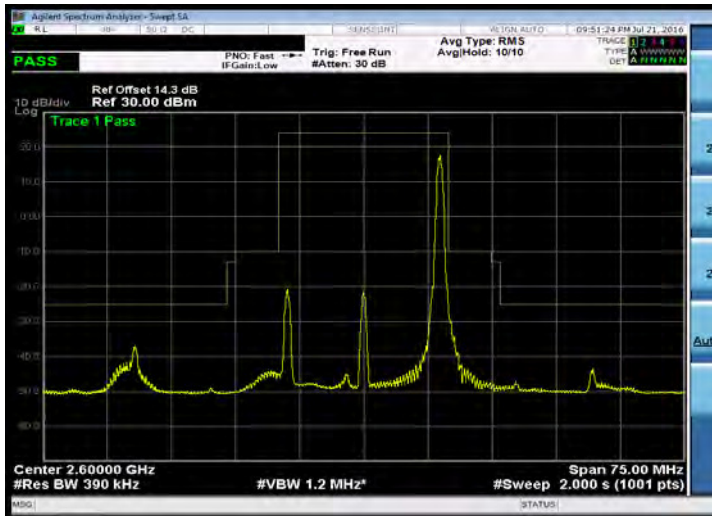
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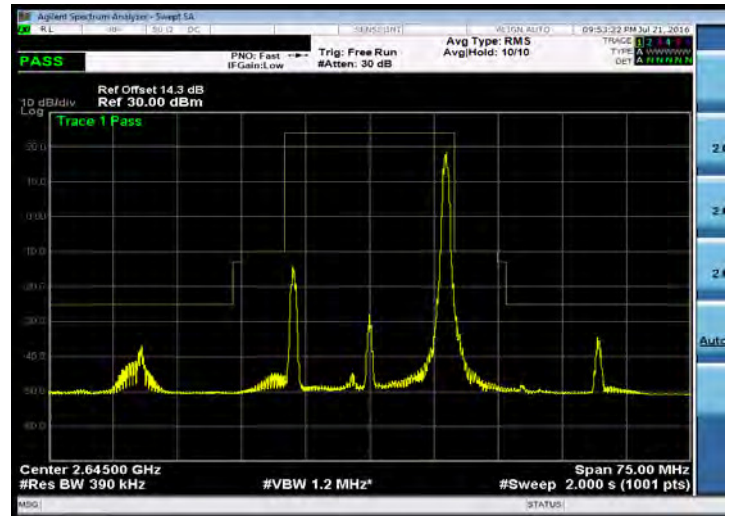
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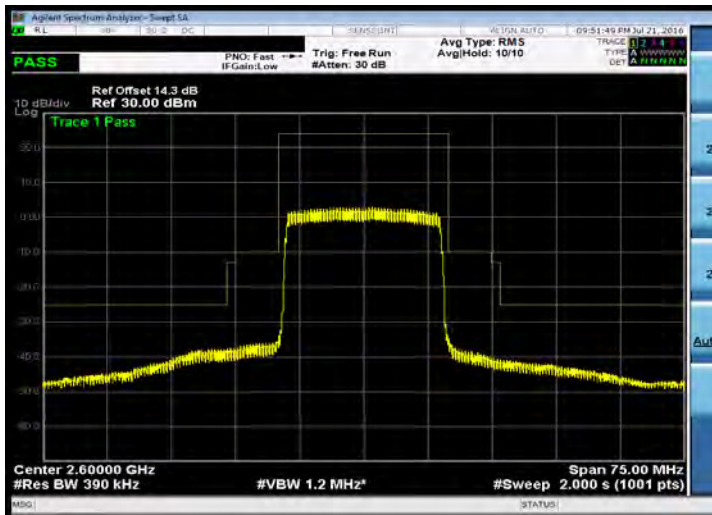
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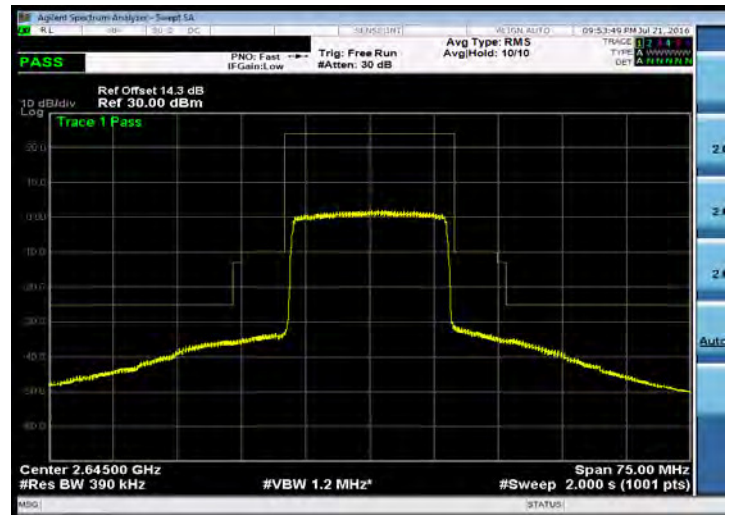
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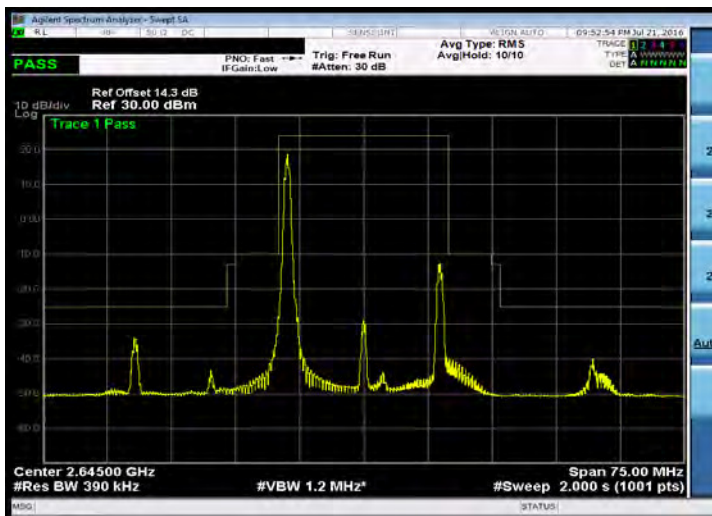
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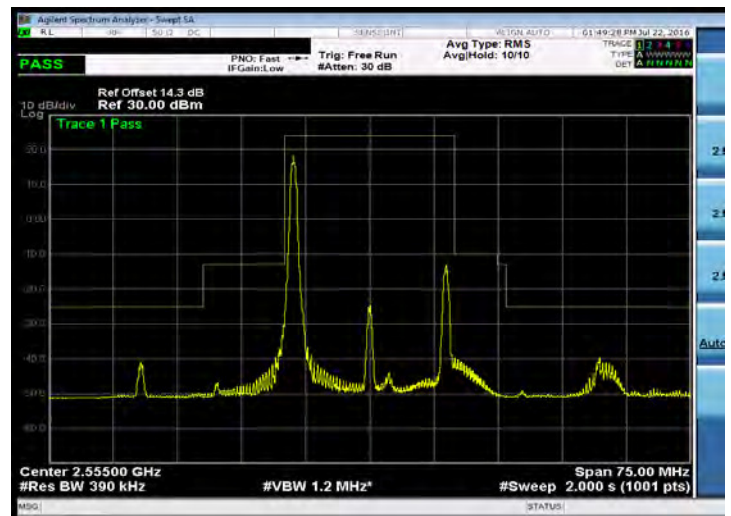
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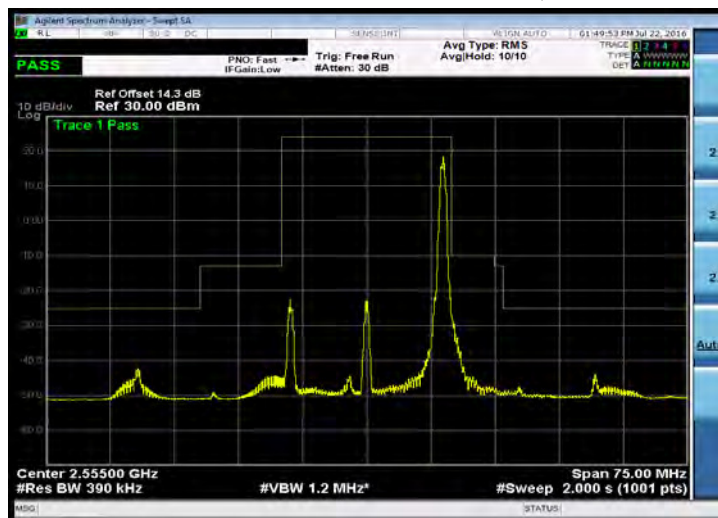
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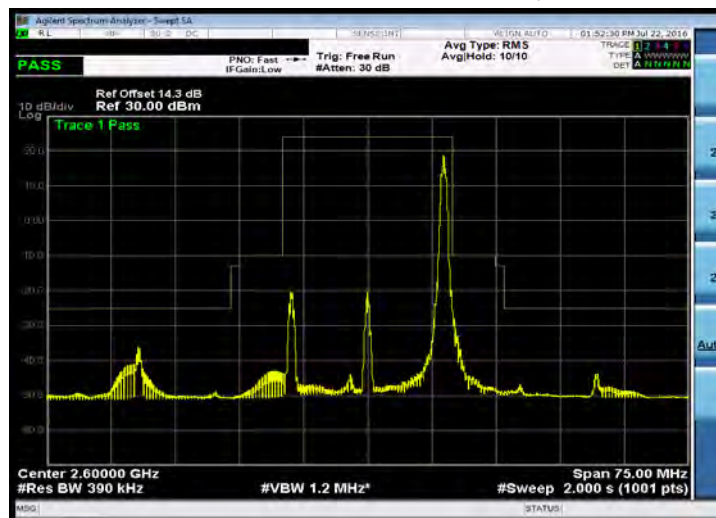
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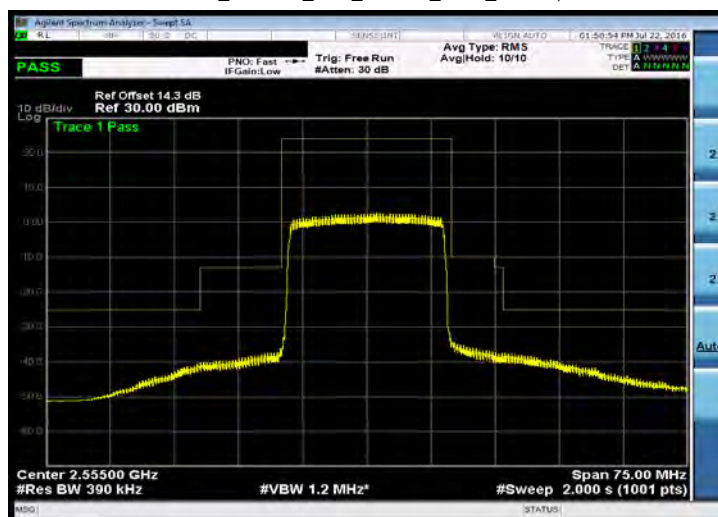
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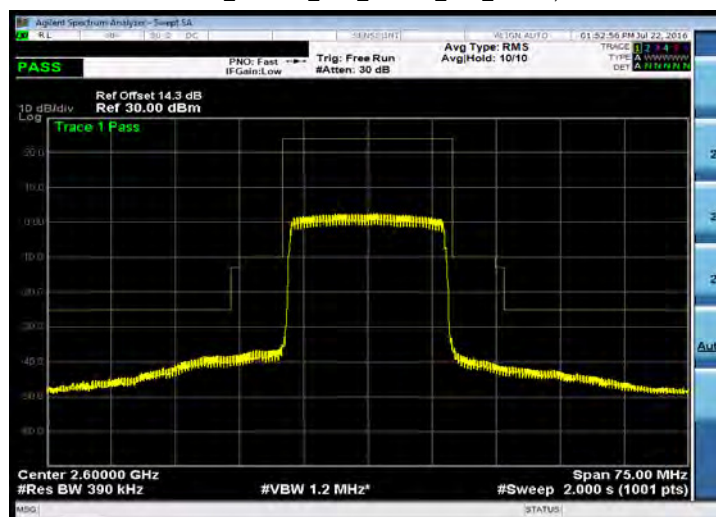
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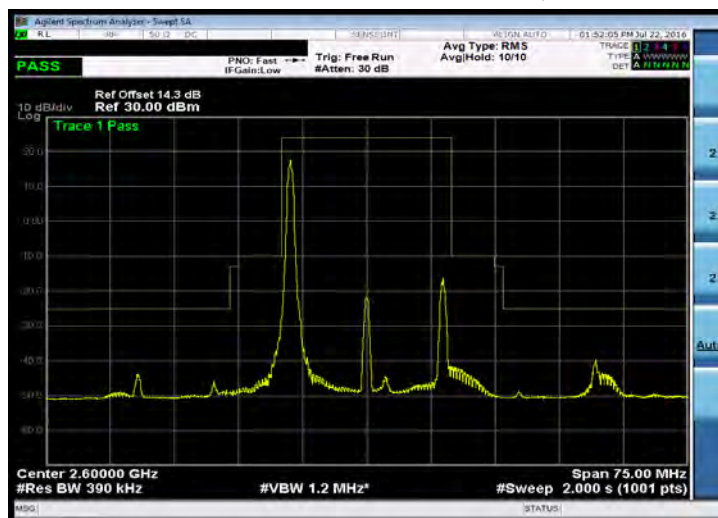
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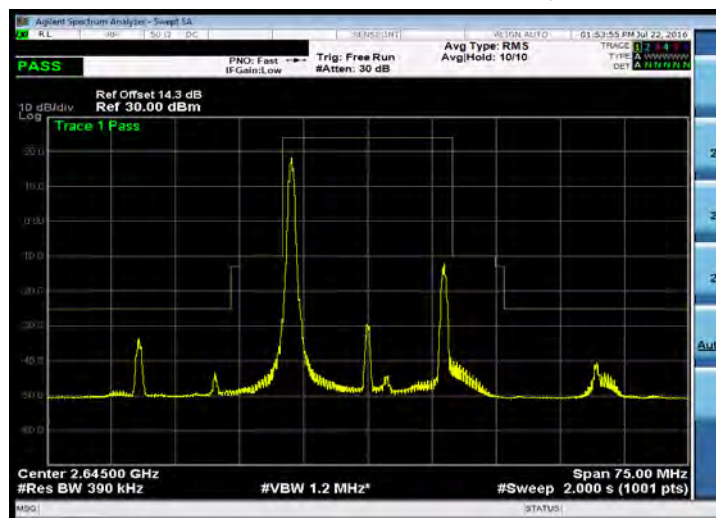
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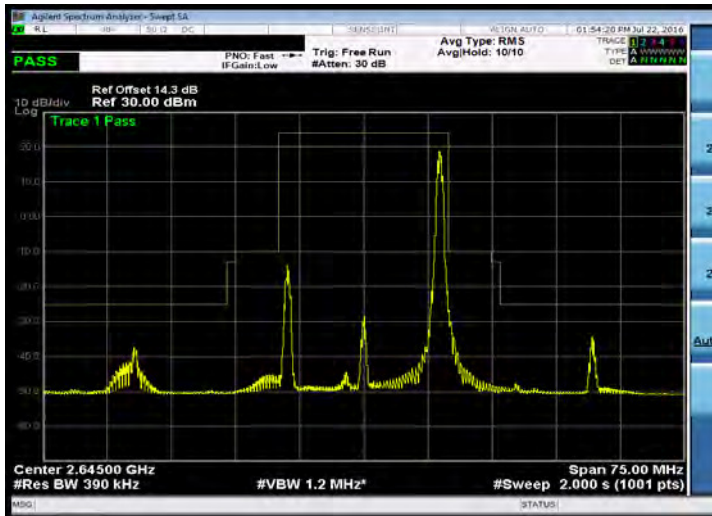
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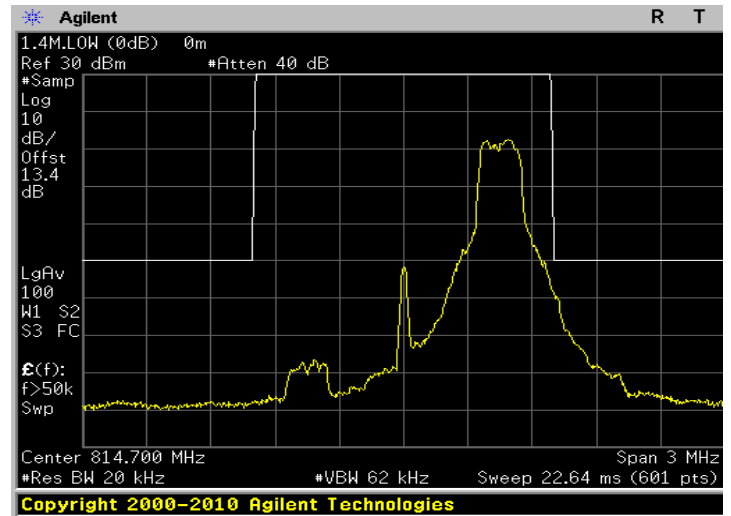
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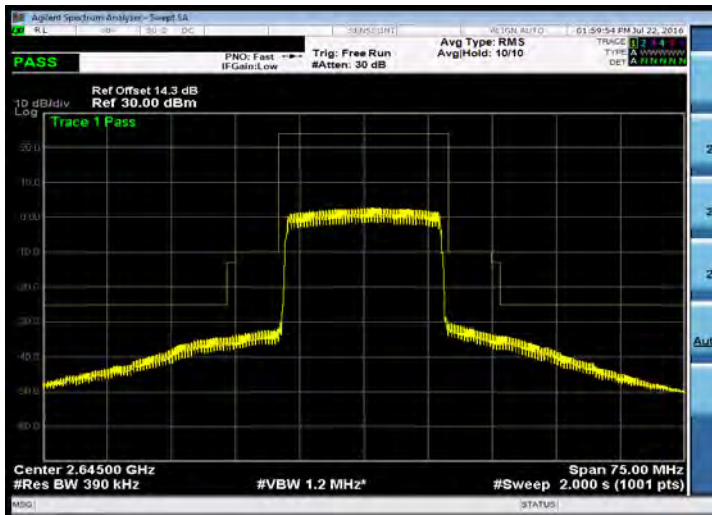
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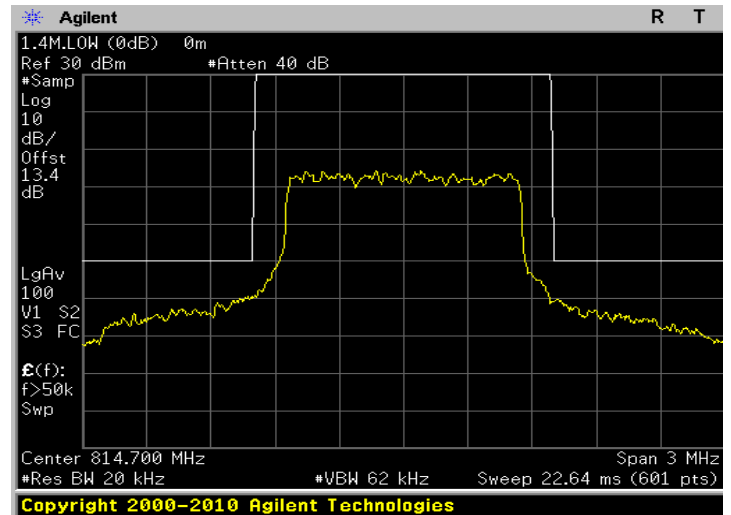
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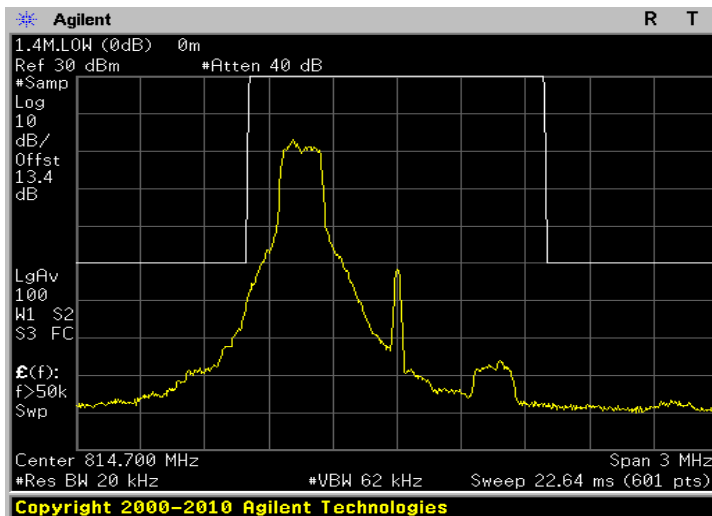
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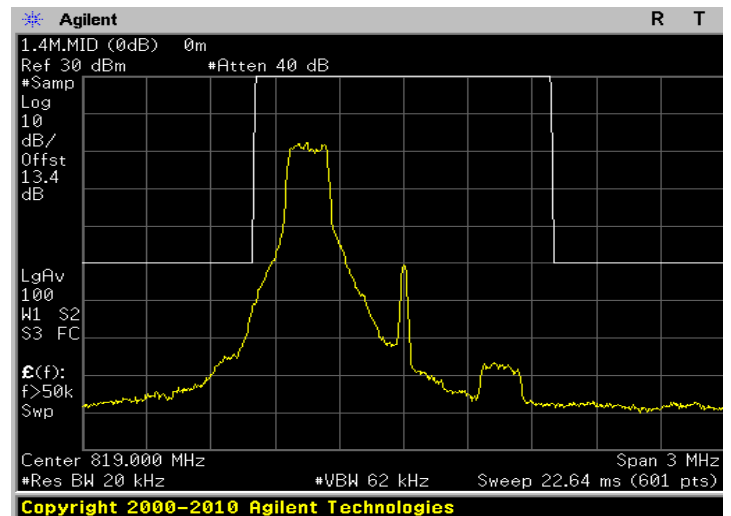
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Emission Mask_Band26 for Part 90S_1.4M_QPSK_MID_RB1,0



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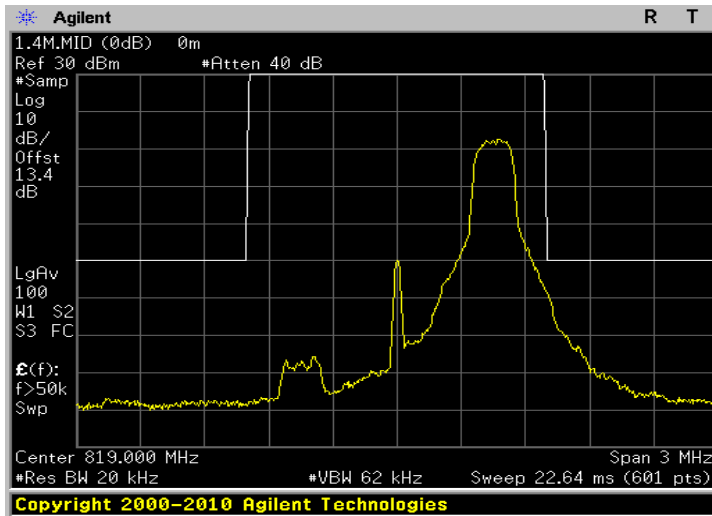
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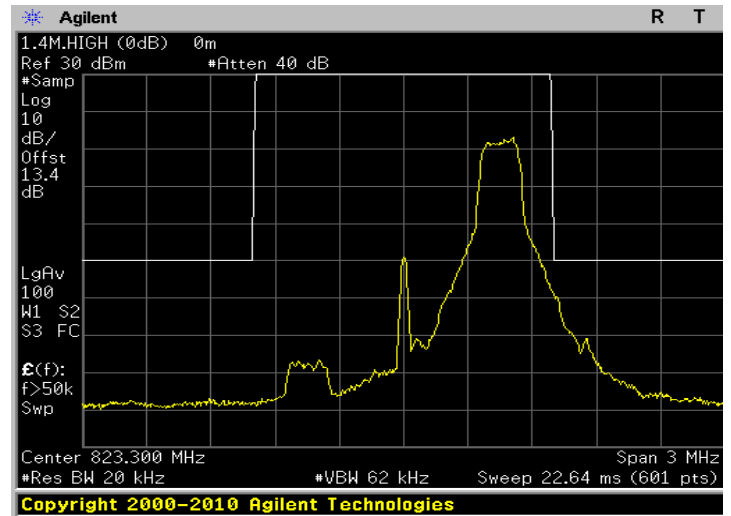
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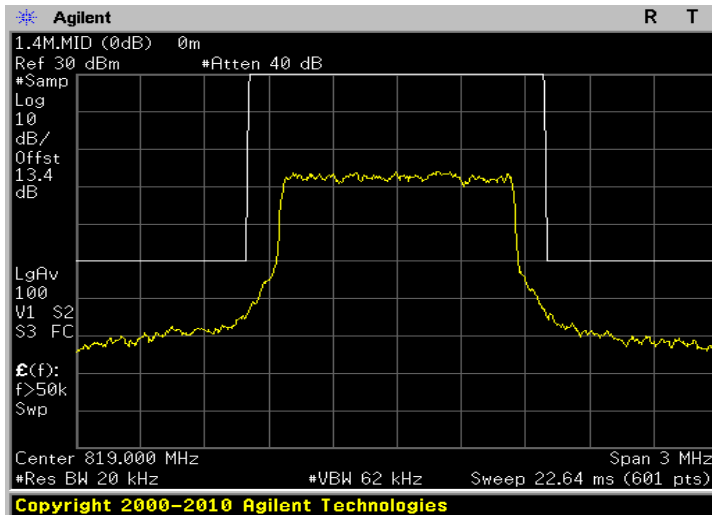
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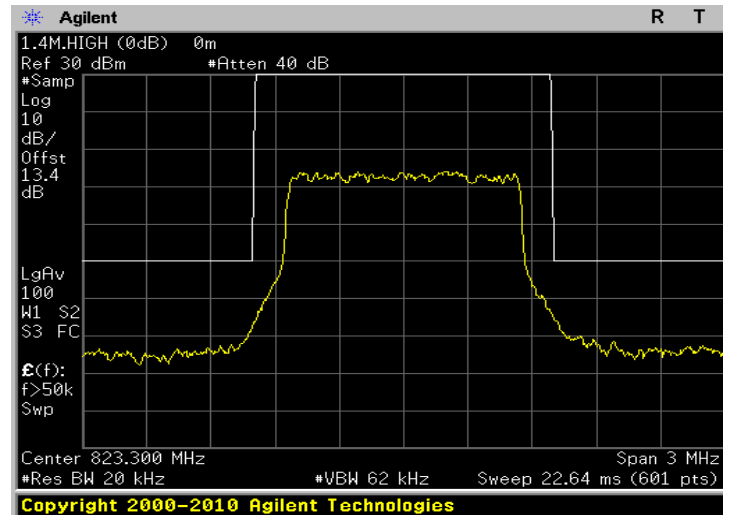
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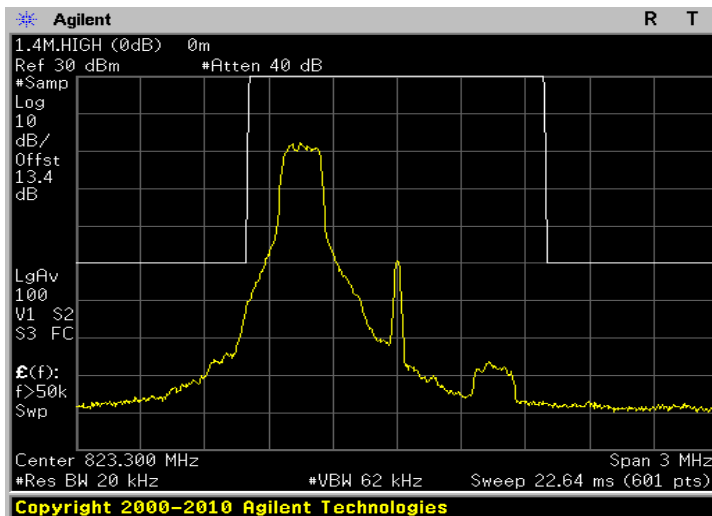
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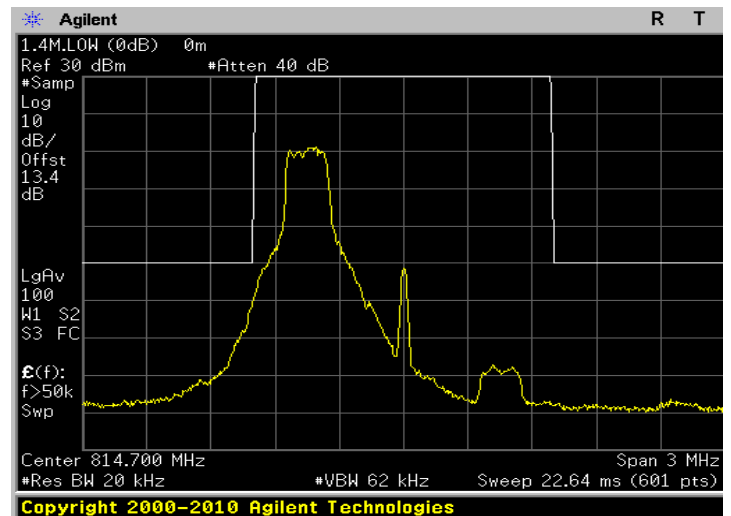
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Emission Mask_Band26 for Part 90S_1.4M_16QAM_LOW_RB1,0



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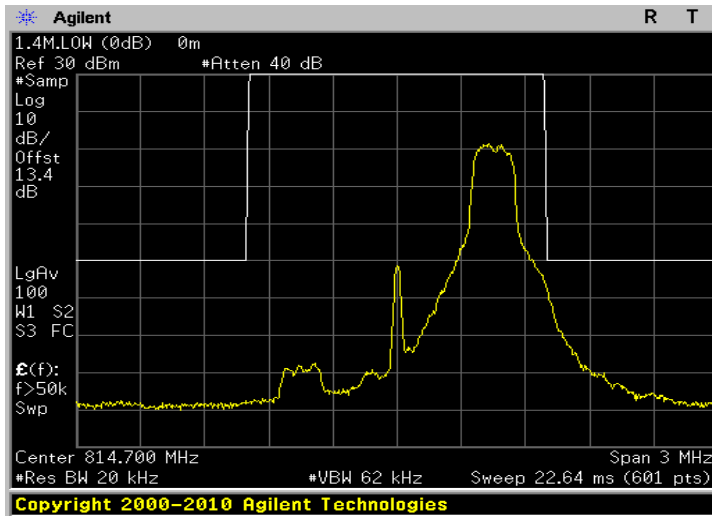
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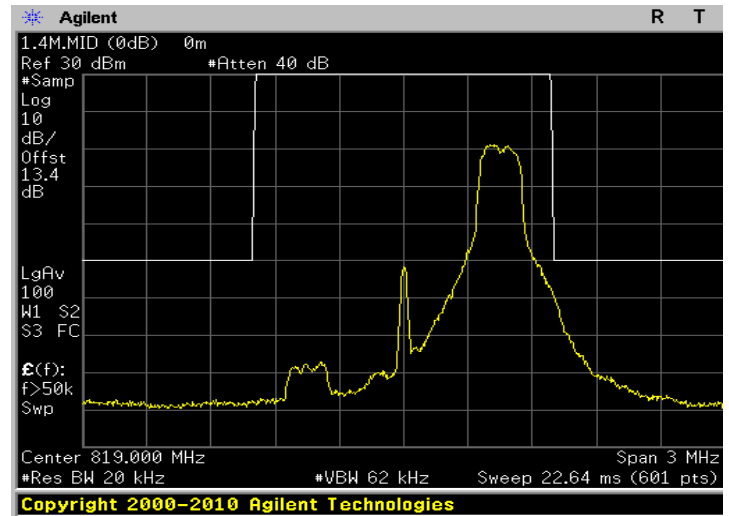
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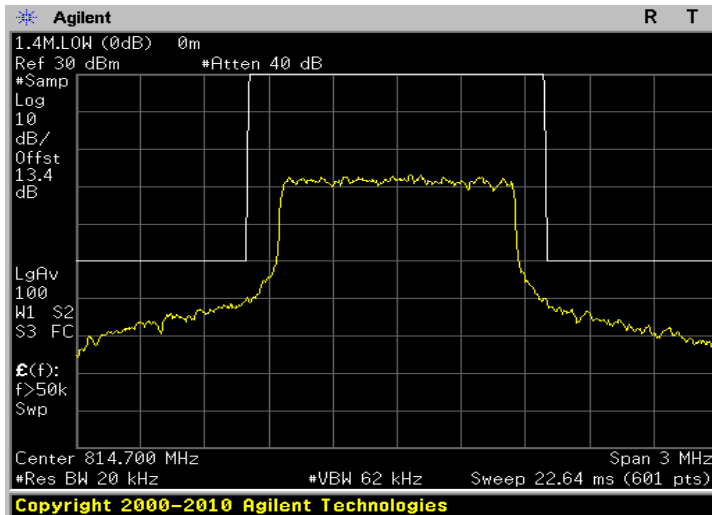
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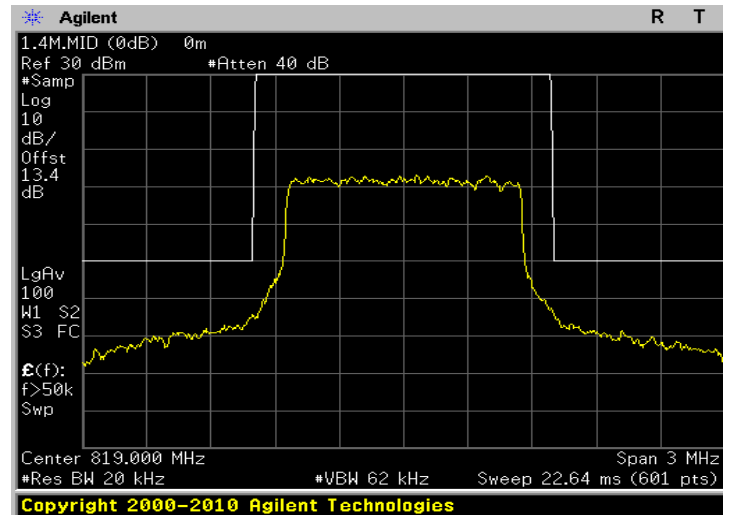
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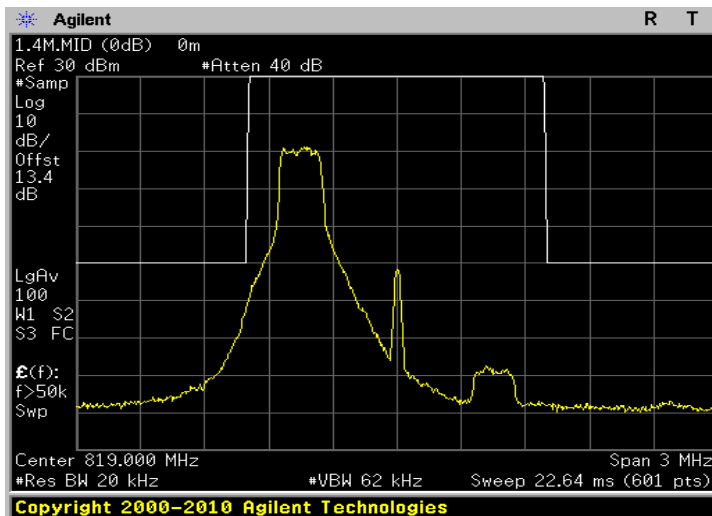
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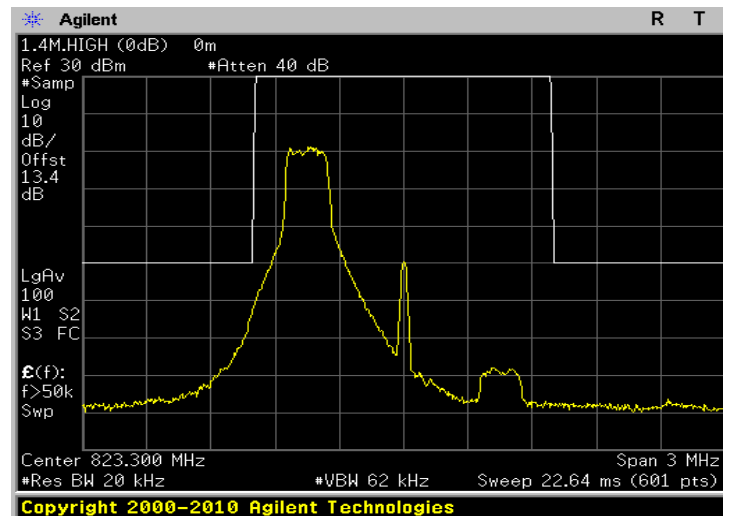
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Emission Mask_Band26 for Part 90S_1.4M_16QAM_HIGH_RB1,0



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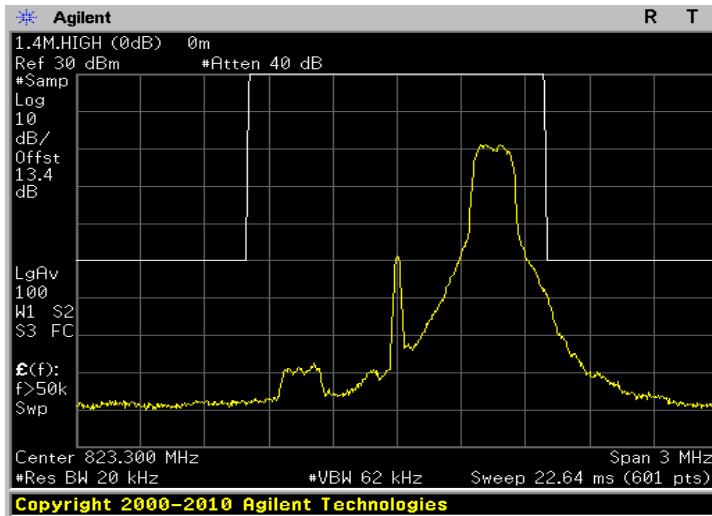
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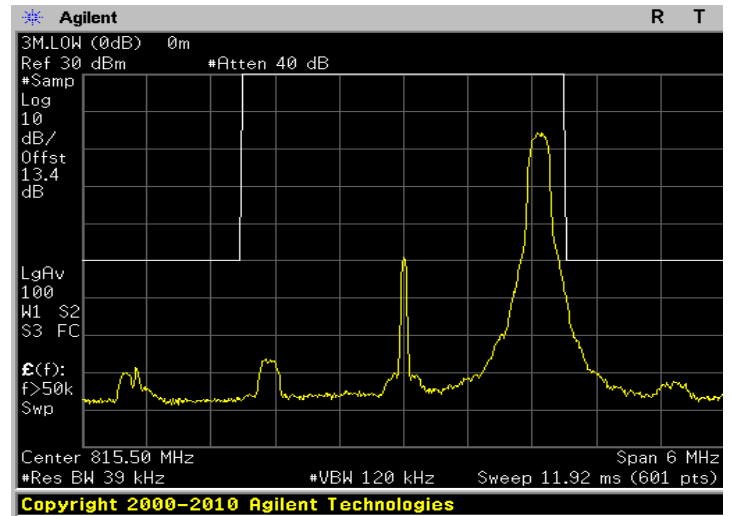
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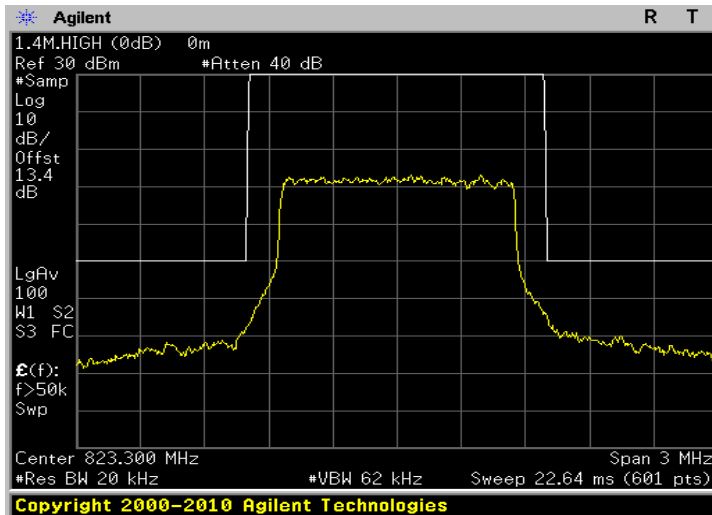
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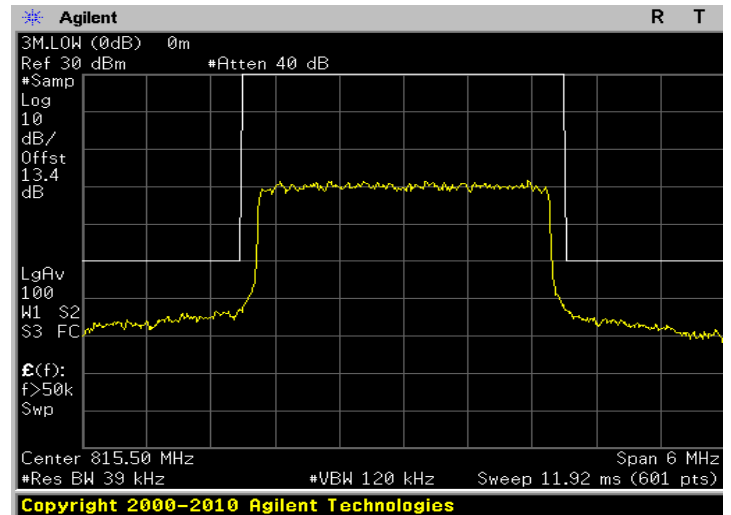
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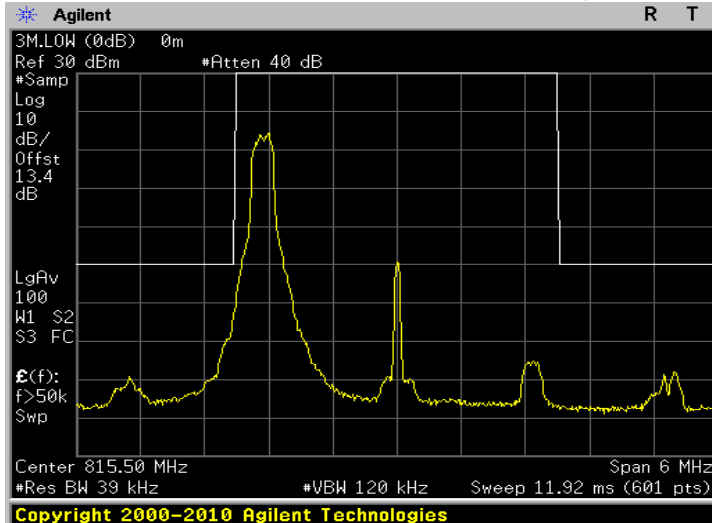
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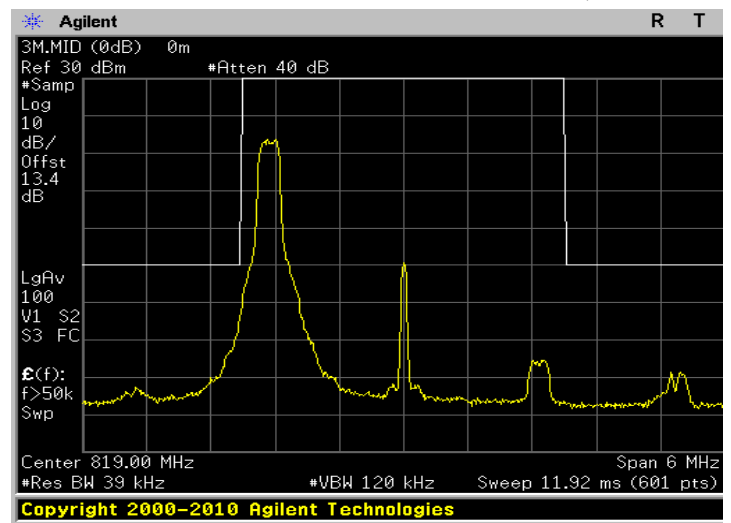
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Emission Mask_Band26 for Part 90S_3M_QPSK_MID_RB1,0



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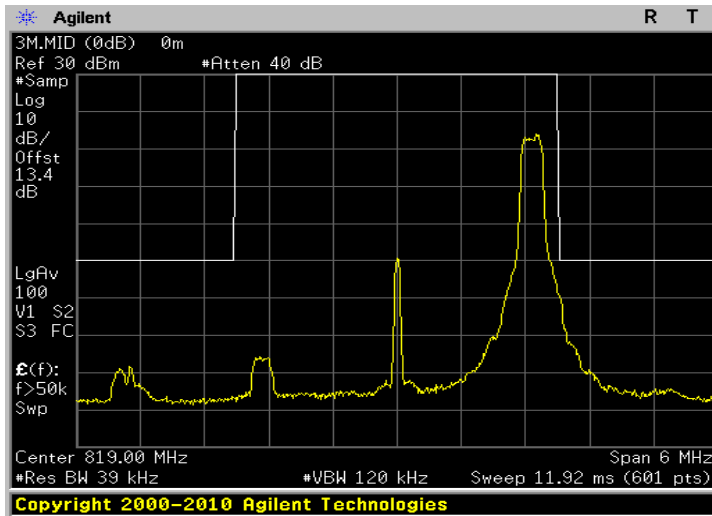
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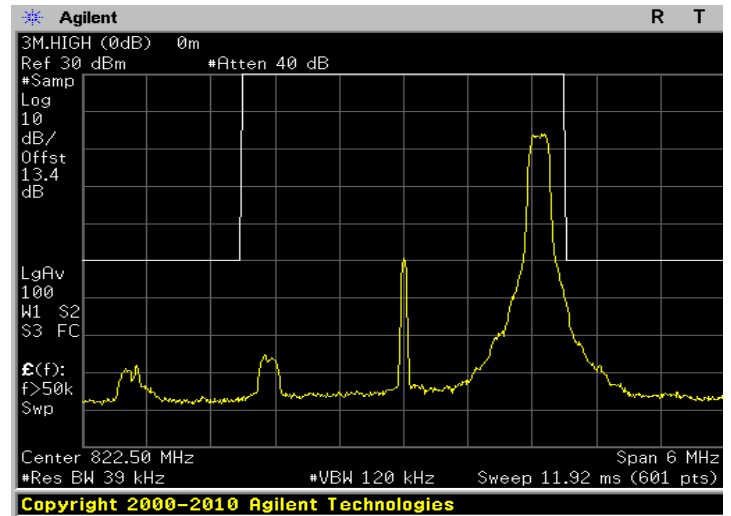
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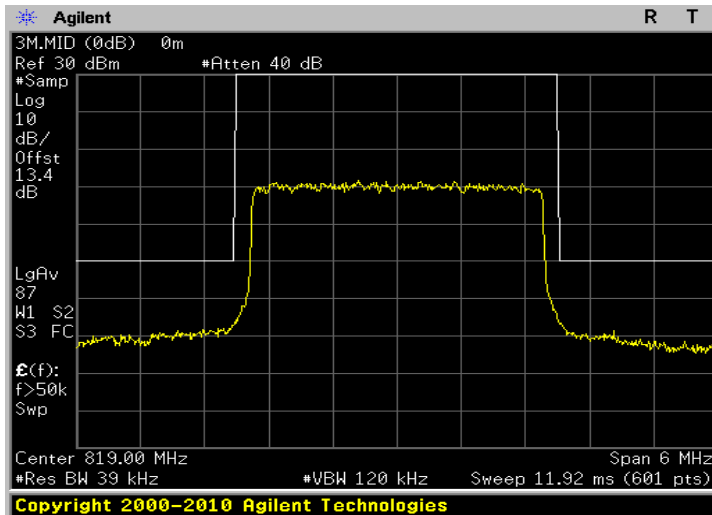
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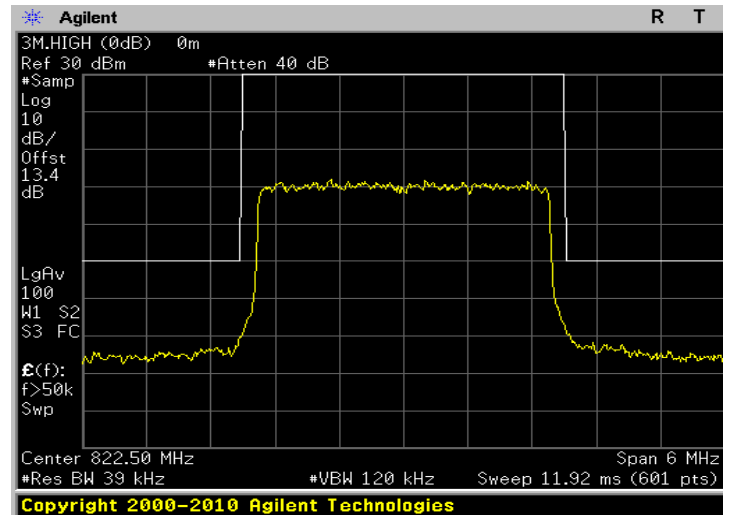
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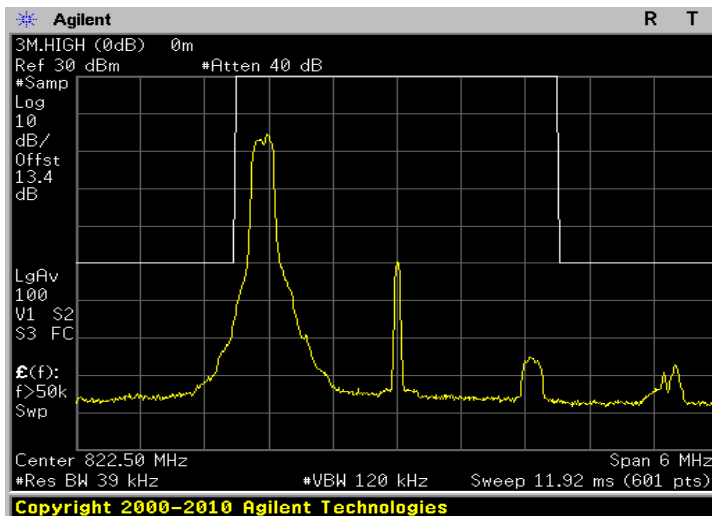
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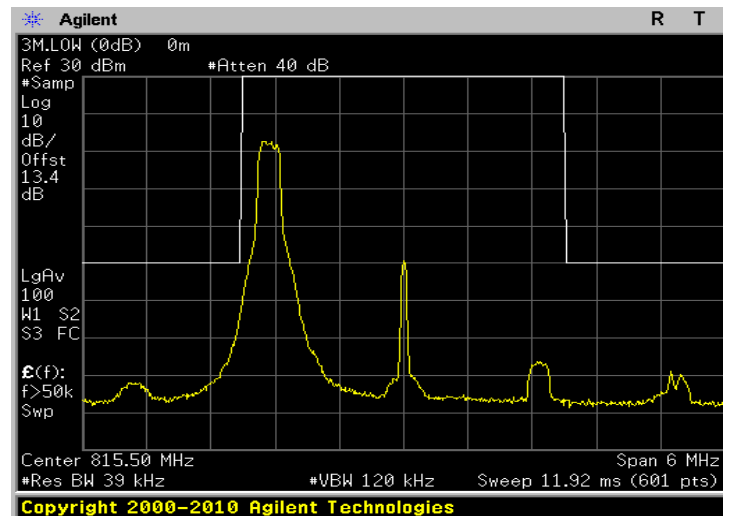
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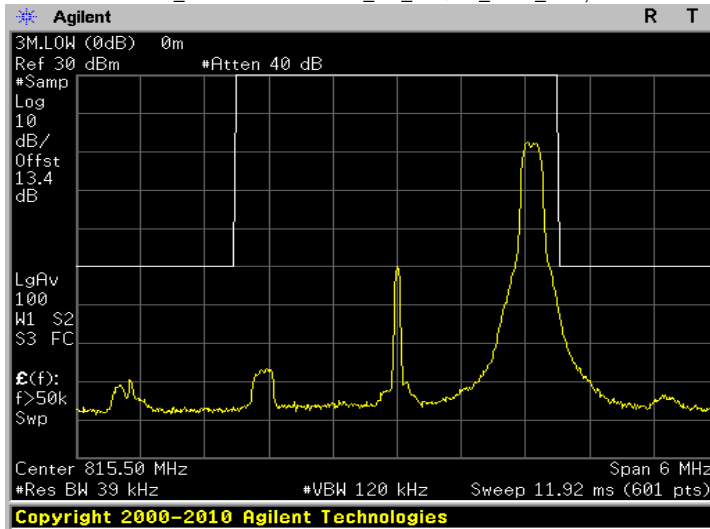
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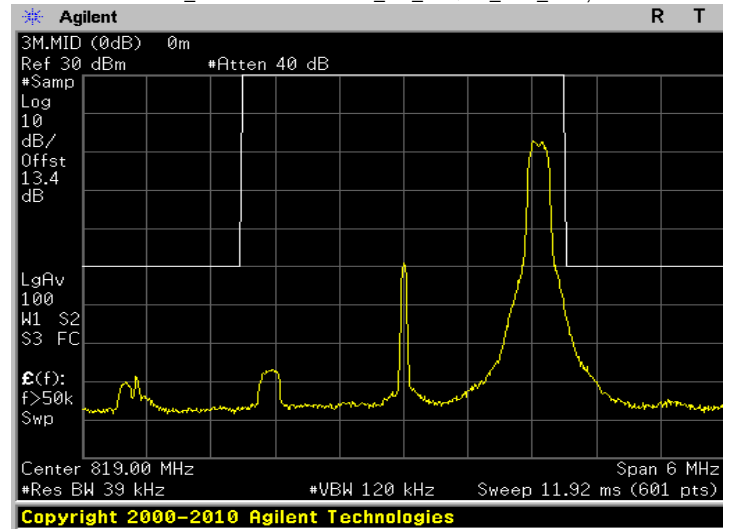
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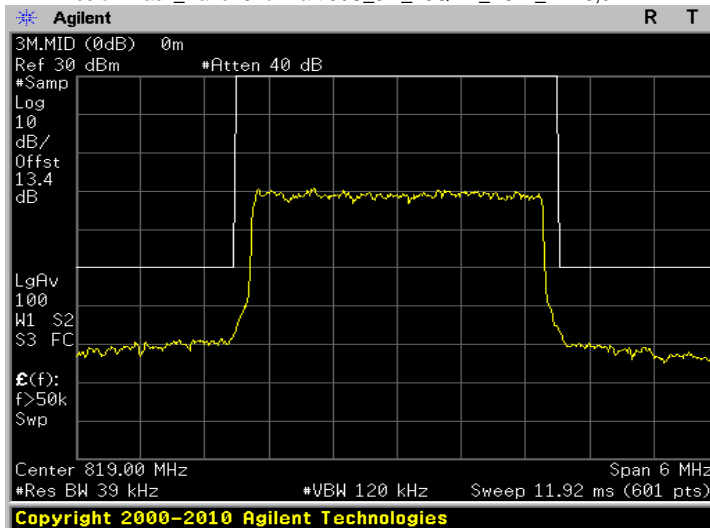
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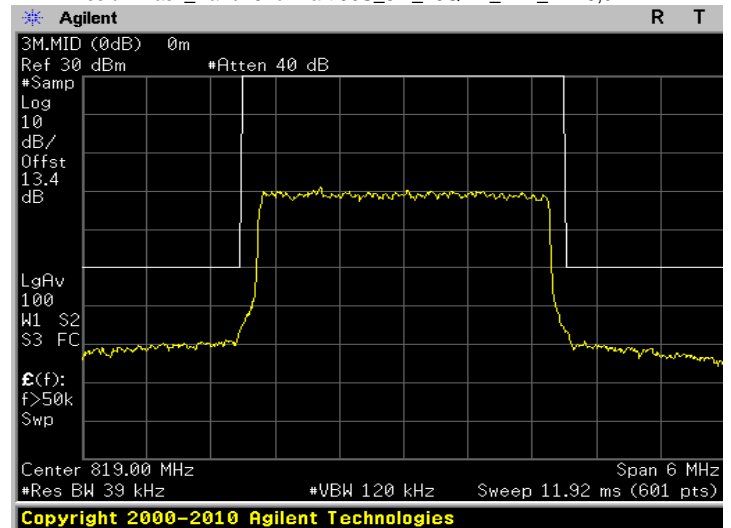
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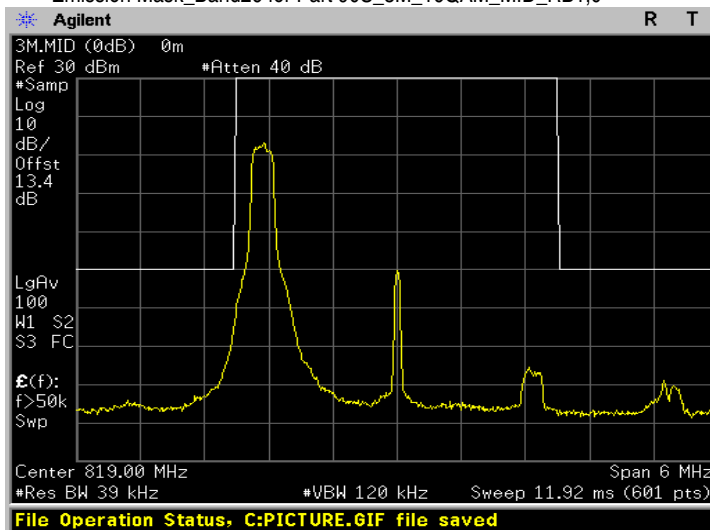
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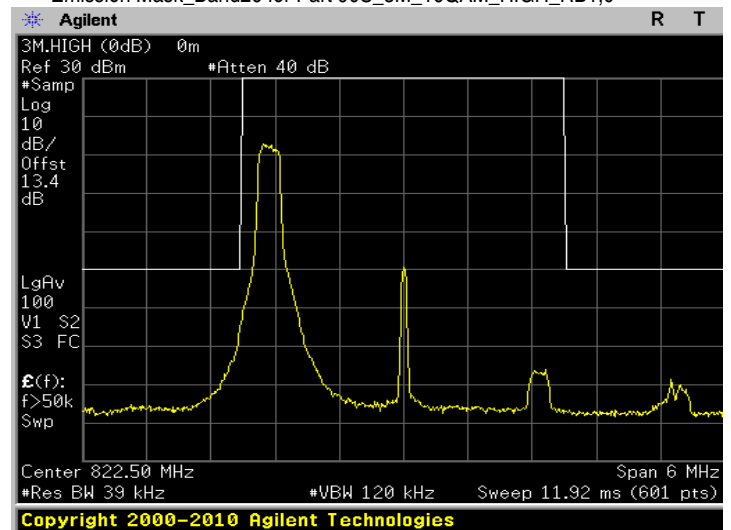
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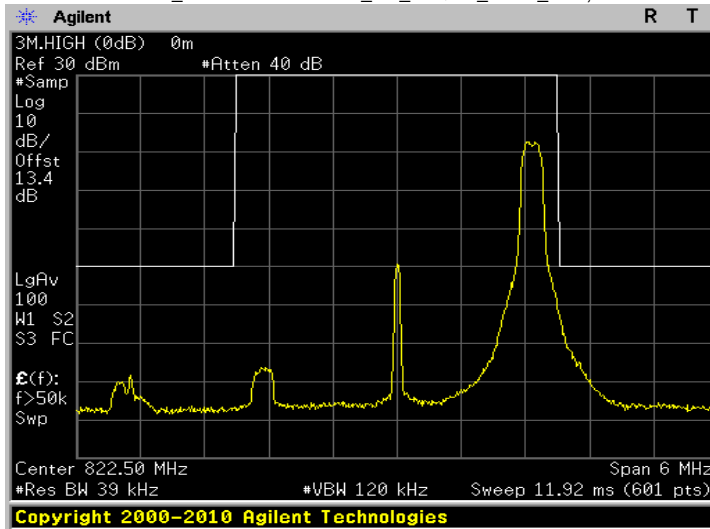
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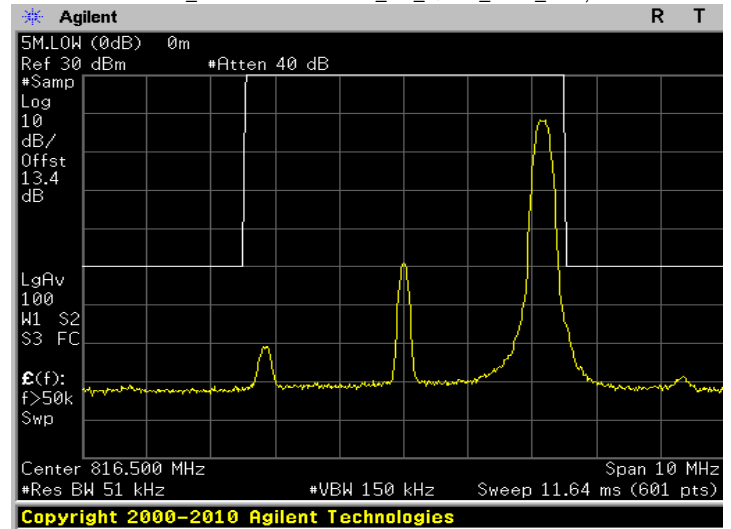
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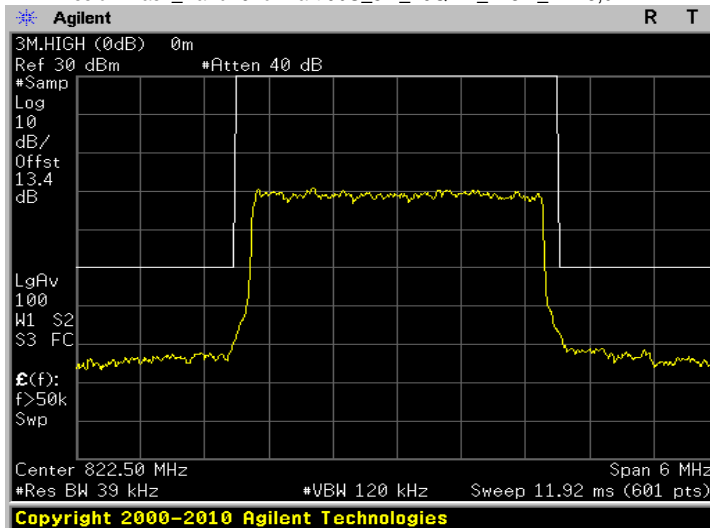
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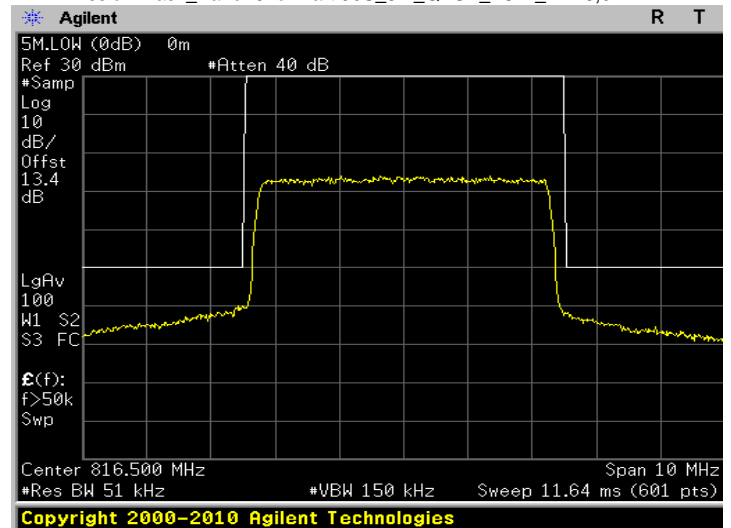
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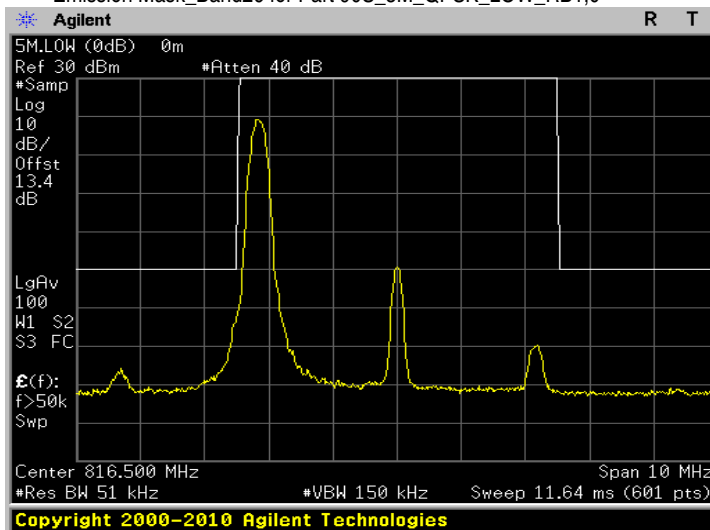
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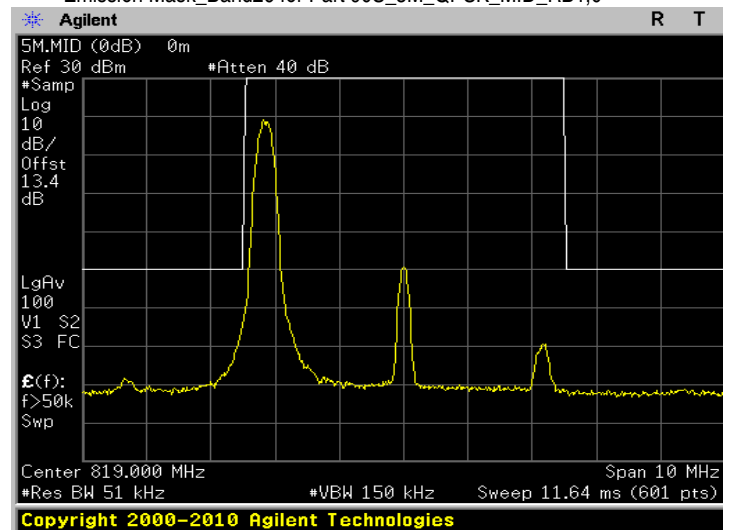
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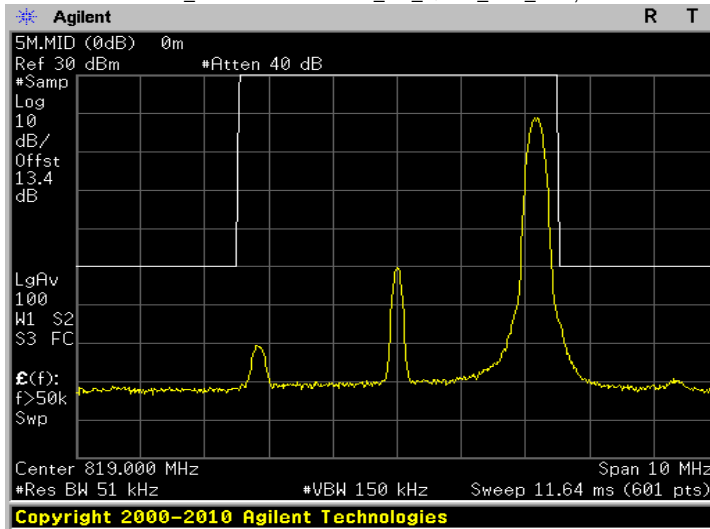
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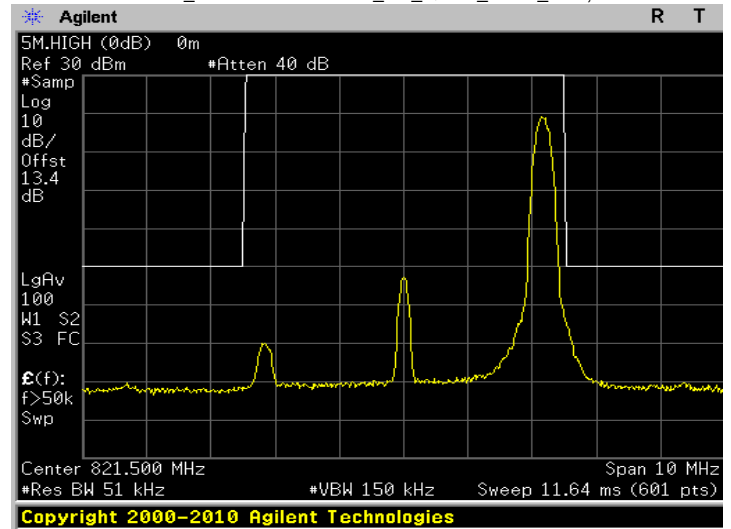
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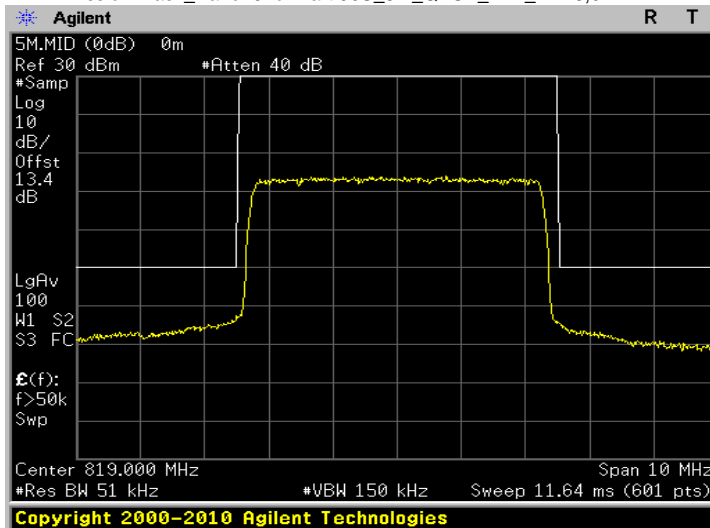
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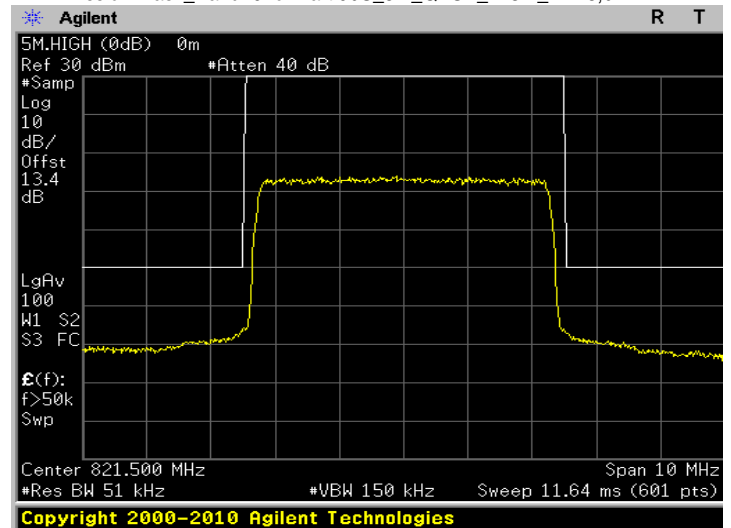
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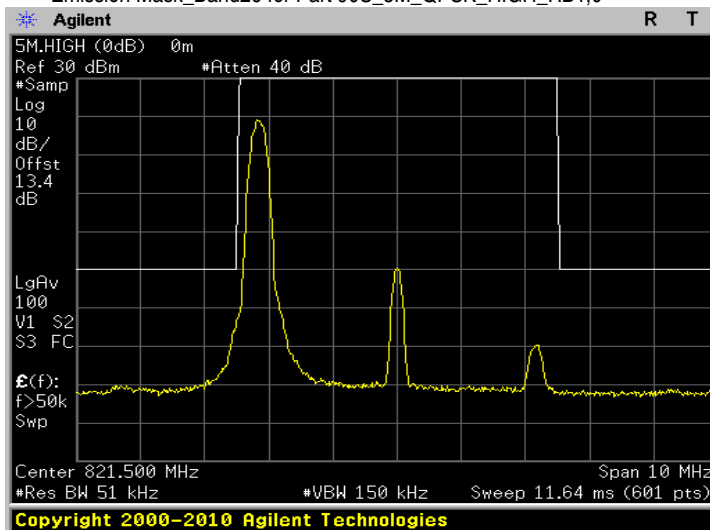
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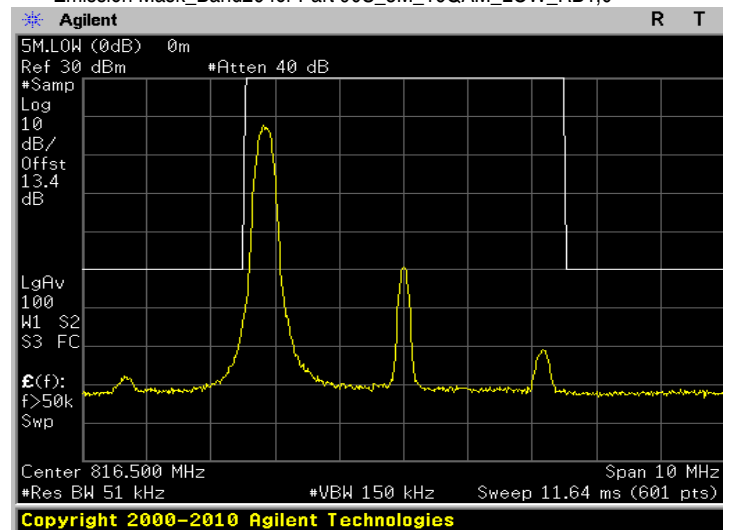
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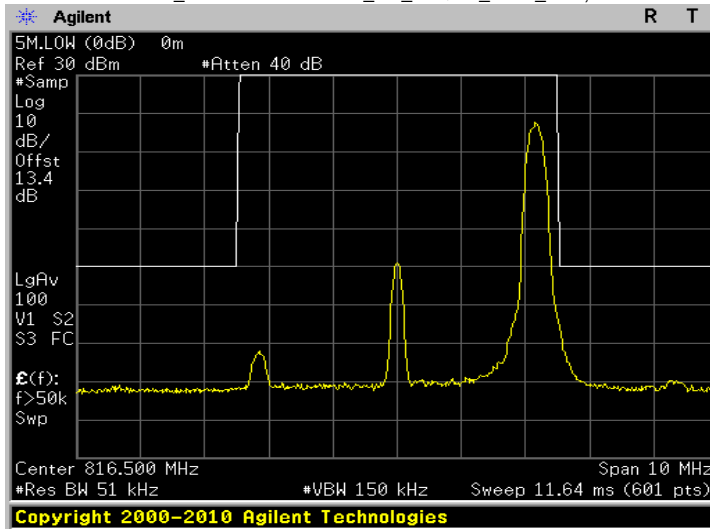
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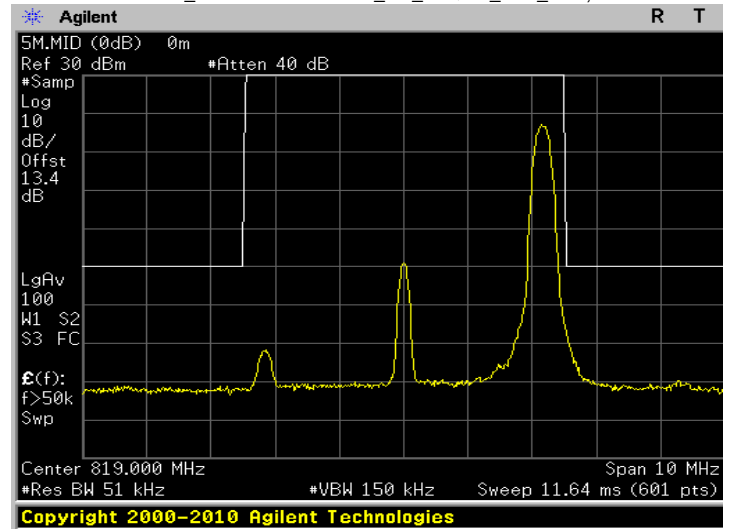
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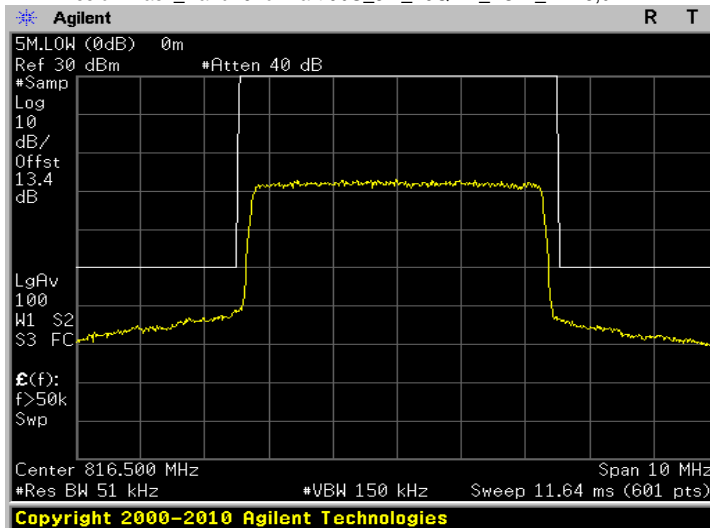
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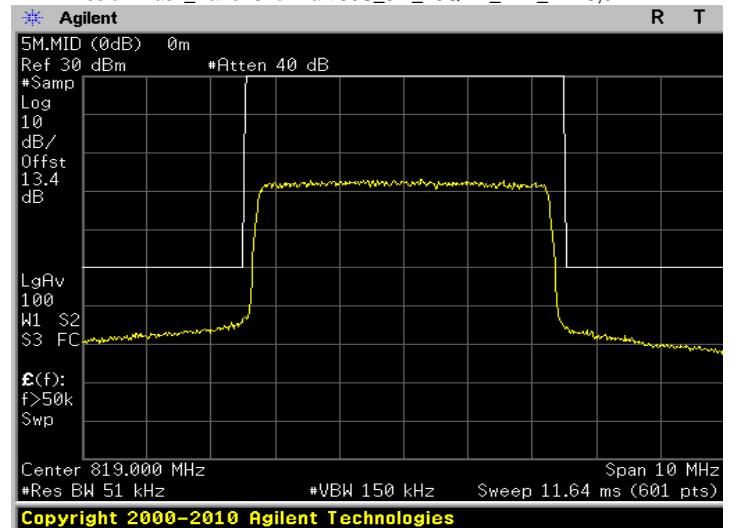
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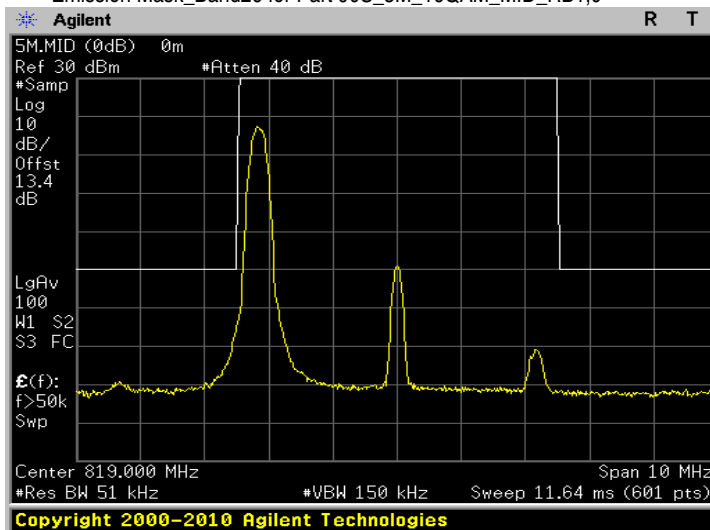
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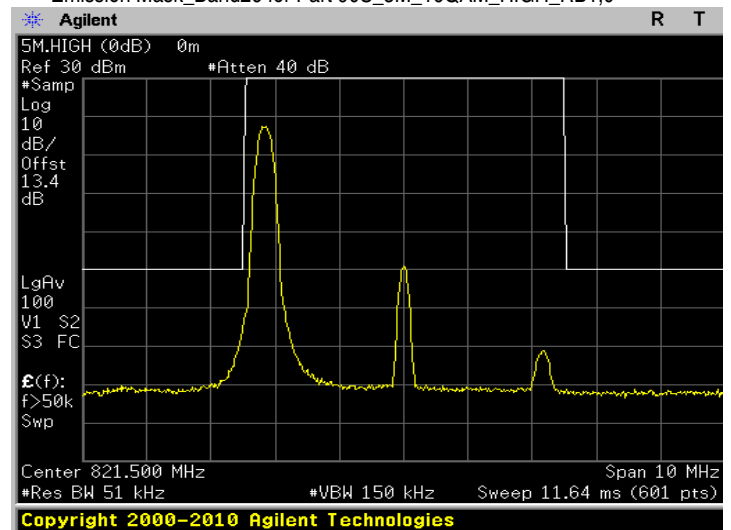
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Emission Mask_Band26 for Part 90S_5M_16QAM_MID_RB1,0



Emission Mask_Band26 for Part 90S_5M_16QAM_HIGH_RB1,0



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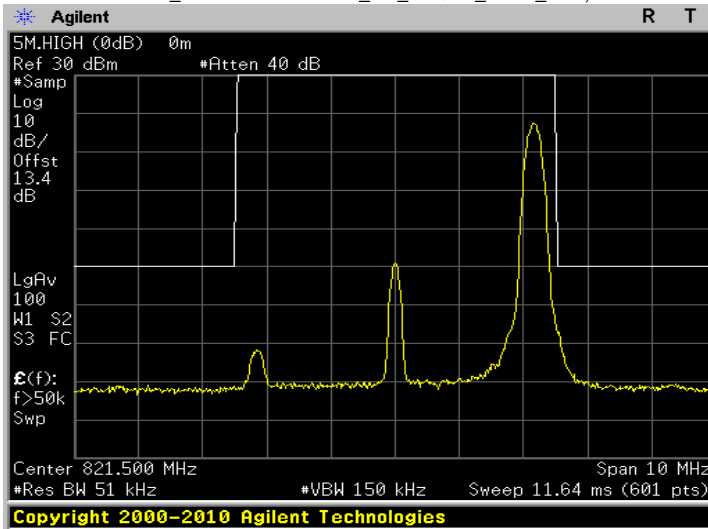
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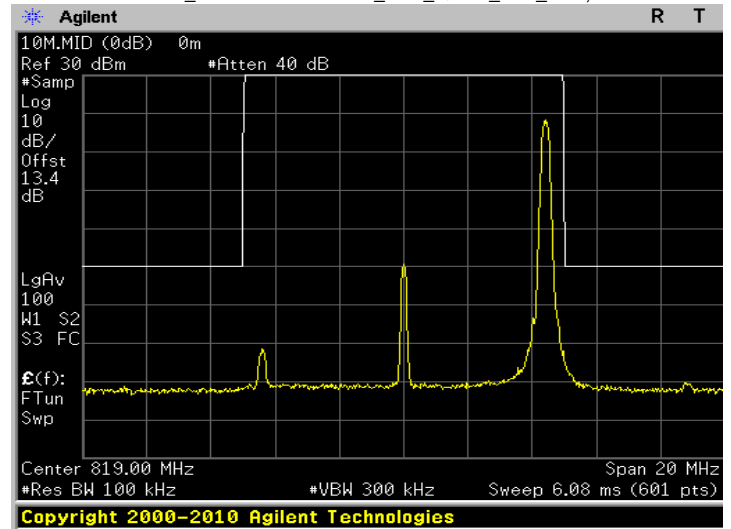
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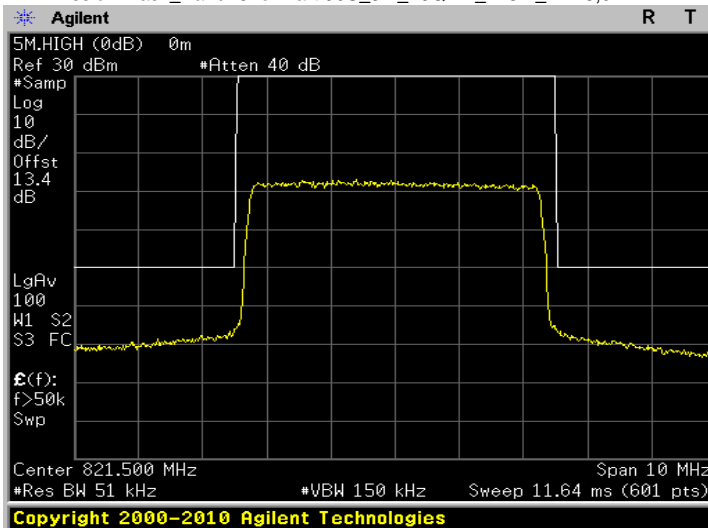
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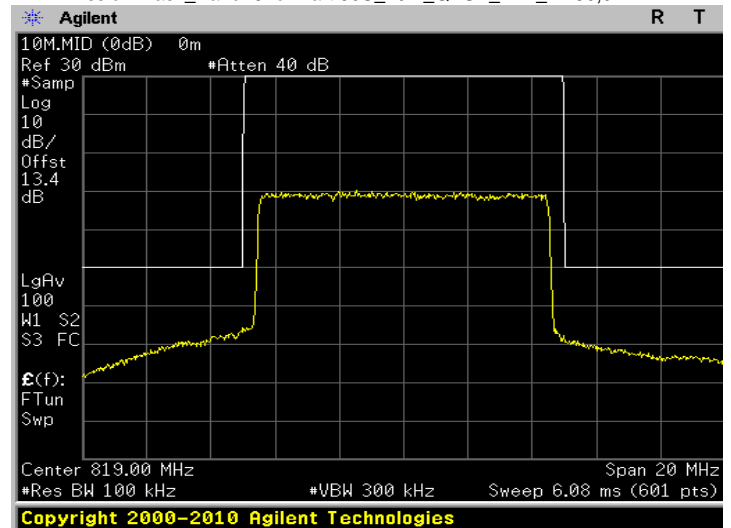
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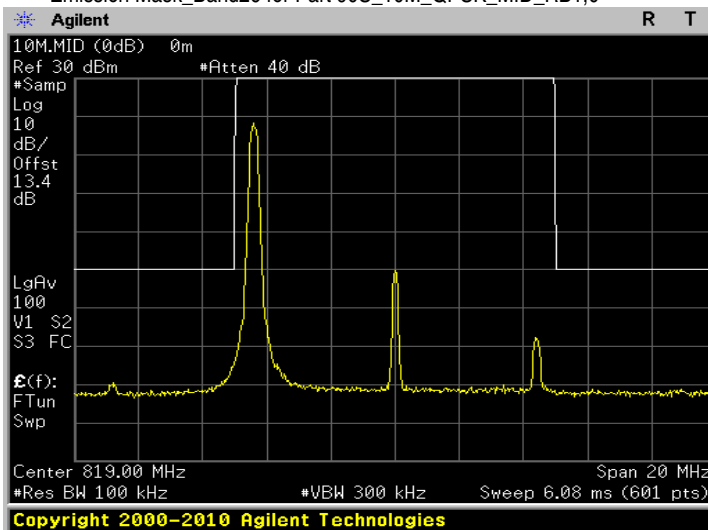
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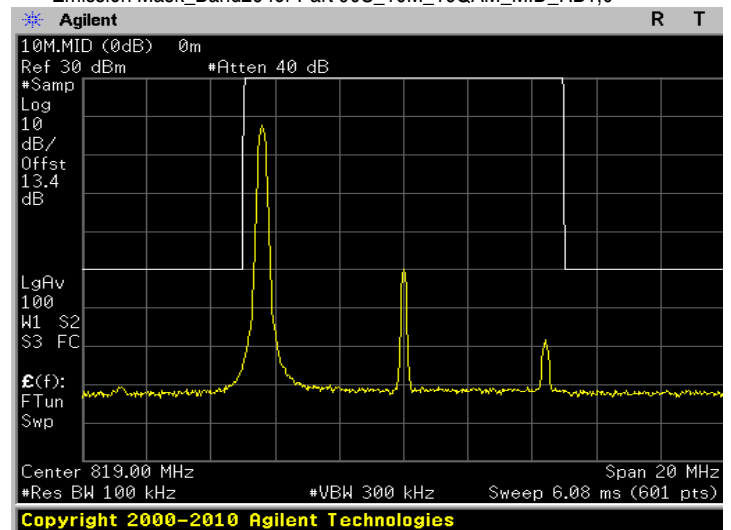
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Emission Mask_Band26 for Part 90S_10M_QPSK_MID_RB1,0



Emission Mask_Band26 for Part 90S_10M_16QAM_MID_RB1,0



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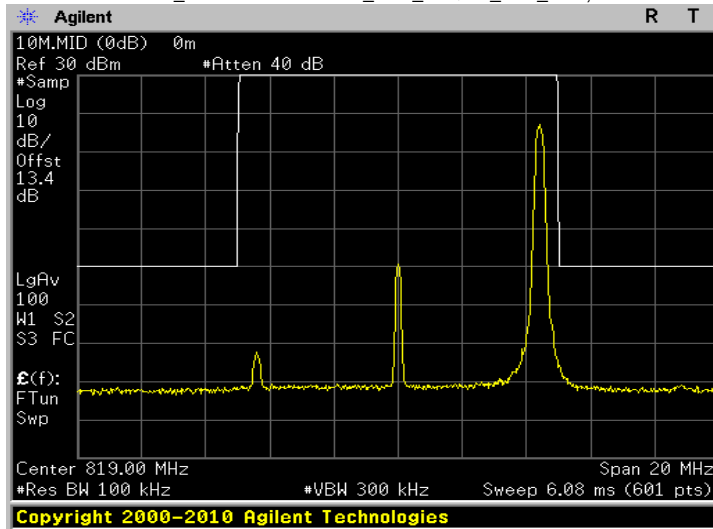
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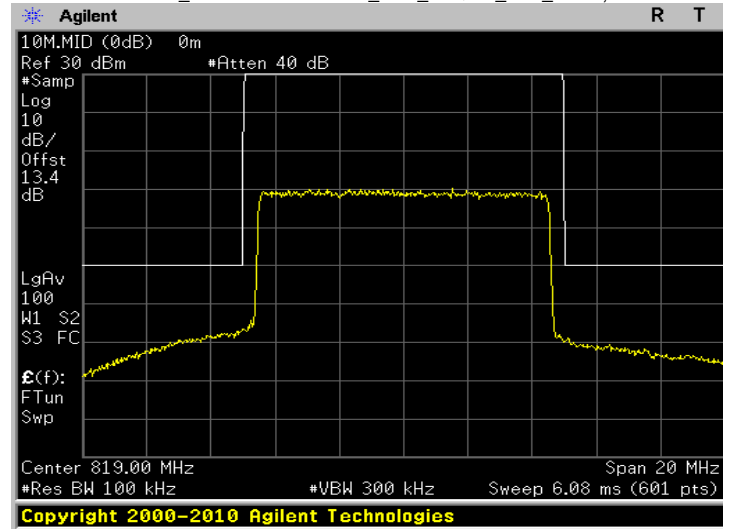
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Emission Mask_Band26 for Part 90S_10M_16QAM_MID_RB1,49



Emission Mask_Band26 for Part 90S_10M_16QAM_MID_RB50,0



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(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).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log$ (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log$ (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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According to RSS-130 §4.6

The power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter

power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately

outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in Section 4.6.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

(i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment, and

(ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment.

According to RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

According to RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

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According to RSS-139 §6.5

- (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log_{10}(P)$, dB.
- (ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log_{10}(P)$, dB.

According to RSS-195 §5.6.2

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P(dBW), by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

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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According to RSS-199 §4.6

Equipment shall comply with the following unwanted emissions limits:

(a) For base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$

(b) For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

- i) $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away,
- ii) $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- iii) $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges.
- iv) in addition, the attenuation shall be not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

where p in (a) and (b) is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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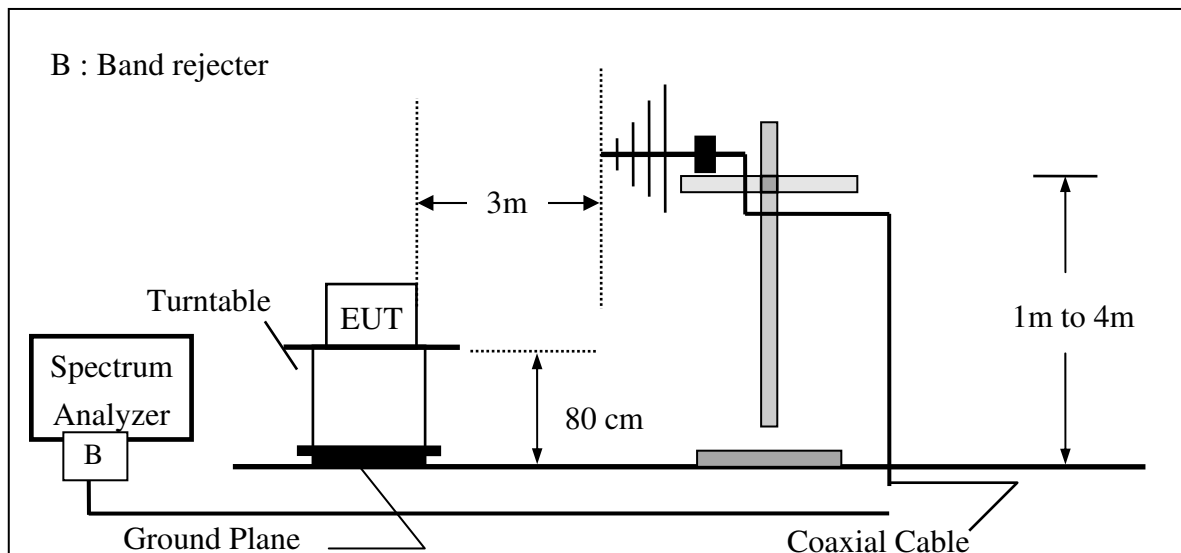
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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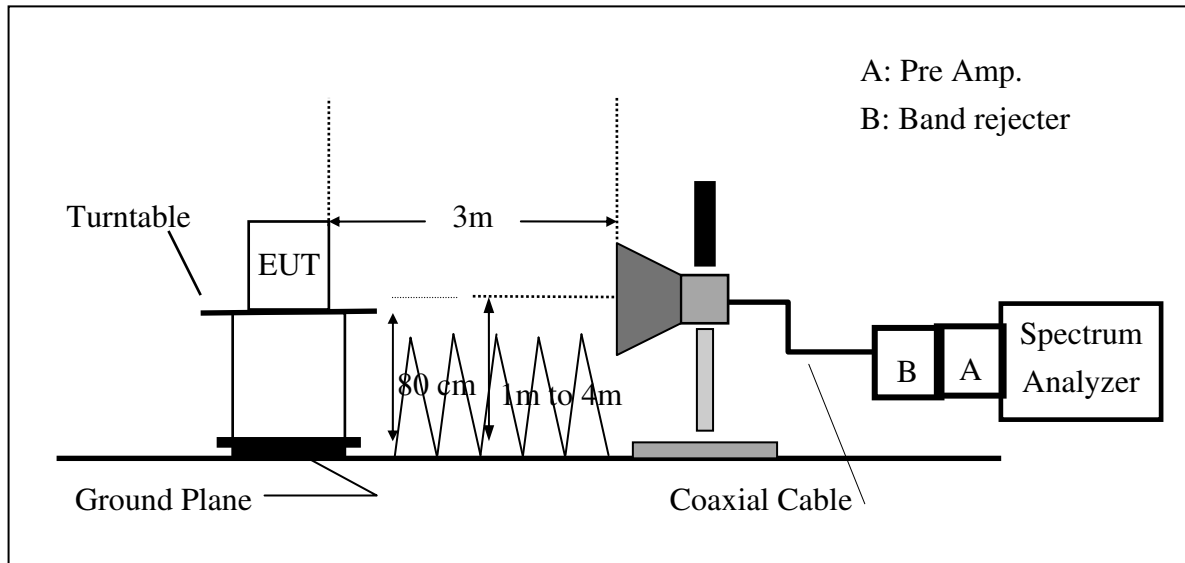
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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

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

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

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

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

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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10.4. 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	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/10/2015	08/09/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
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	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017

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

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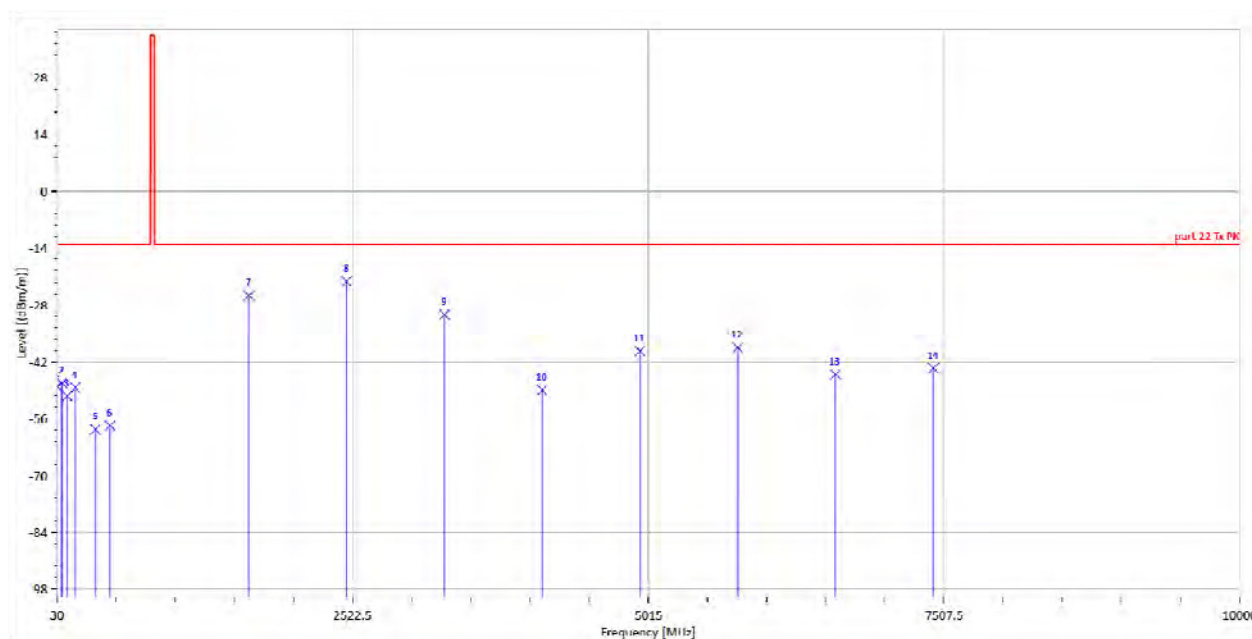
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-48.08	-28.85	-18.56	-0.67	-13	-35.08
71.71	S	-47.24	-46.67	0.46	-1.03	-13	-34.24
116.33	S	-50.46	-48.23	-0.97	-1.26	-13	-37.46
184.23	S	-48.32	-52.59	5.91	-1.64	-13	-35.32
353.98	S	-58.66	-62.31	5.88	-2.23	-13	-45.66
478.14	S	-57.72	-61.46	6.34	-2.59	-13	-44.72
1648.40	H	-25.67	-29.86	8.90	-4.72	-13	-12.67
2472.60	H	-22.23	-26.78	10.38	-5.84	-13	-9.23
3296.80	H	-30.39	-35.56	11.89	-6.72	-13	-17.39
4121.00	H	-48.99	-53.79	12.35	-7.55	-13	-35.99
4945.20	S	-39.39	-43.46	12.32	-8.26	-13	-26.39
5769.40	H	-38.49	-42.18	12.71	-9.01	-13	-25.49
6593.60	H	-45.07	-47.17	11.71	-9.61	-13	-32.07
7417.80	H	-43.56	-44.33	10.80	-10.03	-13	-30.56

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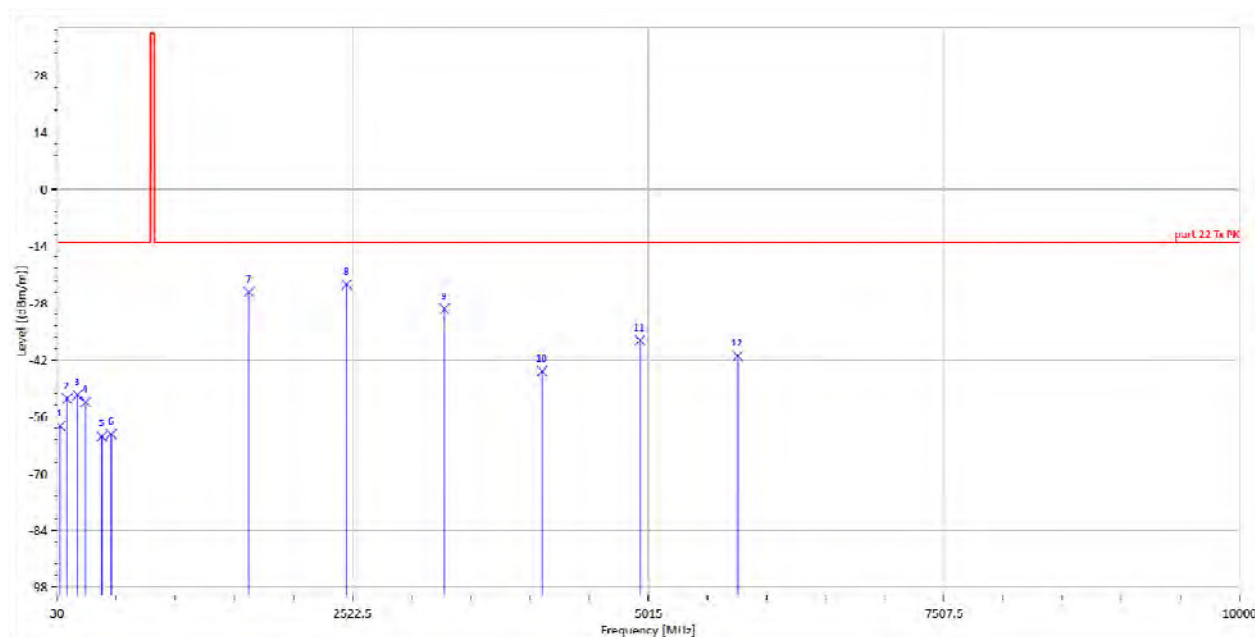
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Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
58.13	S	-58.31	-55.76	-1.67	-0.88	-13	-45.31
115.36	S	-51.61	-49.34	-1.02	-1.26	-13	-38.61
202.66	S	-50.70	-54.92	5.89	-1.67	-13	-37.70
271.53	S	-52.42	-56.00	5.49	-1.91	-13	-39.42
409.27	S	-60.85	-64.23	5.85	-2.47	-13	-47.85
486.87	S	-60.29	-64.09	6.36	-2.55	-13	-47.29
1648.40	H	-25.35	-29.53	8.90	-4.72	-13	-12.35
2472.60	H	-23.39	-27.93	10.38	-5.84	-13	-10.39
3296.80	H	-29.46	-34.63	11.89	-6.72	-13	-16.46
4121.00	H	-44.83	-49.63	12.35	-7.55	-13	-31.83
4945.20	H	-37.19	-41.25	12.32	-8.26	-13	-24.19
5769.40	H	-41.09	-44.79	12.71	-9.01	-13	-28.09

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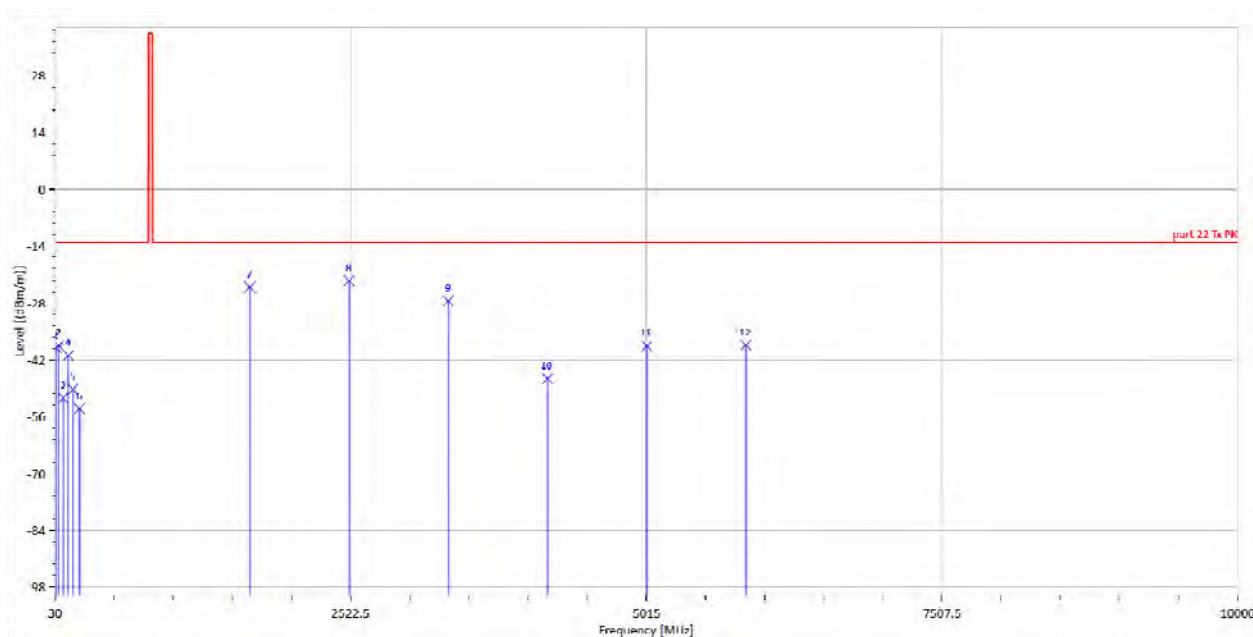
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Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
39.70	S	-39.09	-26.26	-12.09	-0.73	-13	-26.09
62.01	S	-38.55	-36.89	-0.66	-1.00	-13	-25.55
99.84	S	-51.40	-49.36	-0.88	-1.17	-13	-38.40
142.52	S	-40.94	-41.11	1.49	-1.31	-13	-27.94
181.32	S	-49.30	-53.48	5.78	-1.59	-13	-36.30
236.61	S	-54.07	-58.16	5.89	-1.80	-13	-41.07
1673.20	H	-24.06	-28.27	8.99	-4.78	-13	-11.06
2509.80	H	-22.54	-27.07	10.42	-5.89	-13	-9.54
3346.40	H	-27.49	-32.54	11.99	-6.94	-13	-14.49
4183.00	H	-46.65	-51.43	12.37	-7.59	-13	-33.65
5019.60	H	-38.56	-42.58	12.31	-8.30	-13	-25.56
5856.20	H	-38.37	-42.18	12.74	-8.93	-13	-25.37

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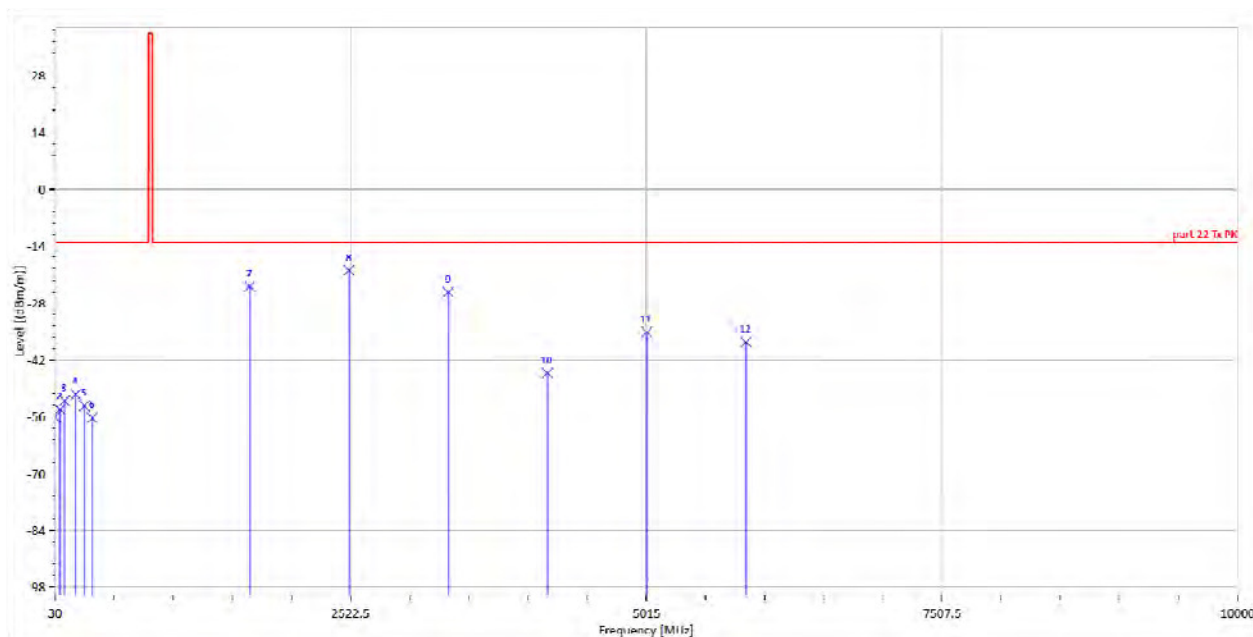
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Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-56.08	-36.85	-18.56	-0.67	-13	-43.08
72.68	S	-54.22	-53.70	0.48	-1.01	-13	-41.22
110.51	S	-52.13	-49.65	-1.24	-1.24	-13	-39.13
204.60	S	-50.57	-54.83	5.93	-1.67	-13	-37.57
278.32	S	-53.35	-57.07	5.70	-1.98	-13	-40.35
344.28	S	-56.32	-59.96	5.90	-2.26	-13	-43.32
1673.20	H	-23.91	-28.12	8.99	-4.78	-13	-10.91
2509.80	H	-19.95	-24.47	10.42	-5.89	-13	-6.95
3346.40	H	-25.37	-30.42	11.99	-6.94	-13	-12.37
4183.00	H	-45.27	-50.05	12.37	-7.59	-13	-32.27
5019.60	H	-35.22	-39.23	12.31	-8.30	-13	-22.22
5856.20	H	-37.65	-41.46	12.74	-8.93	-13	-24.65

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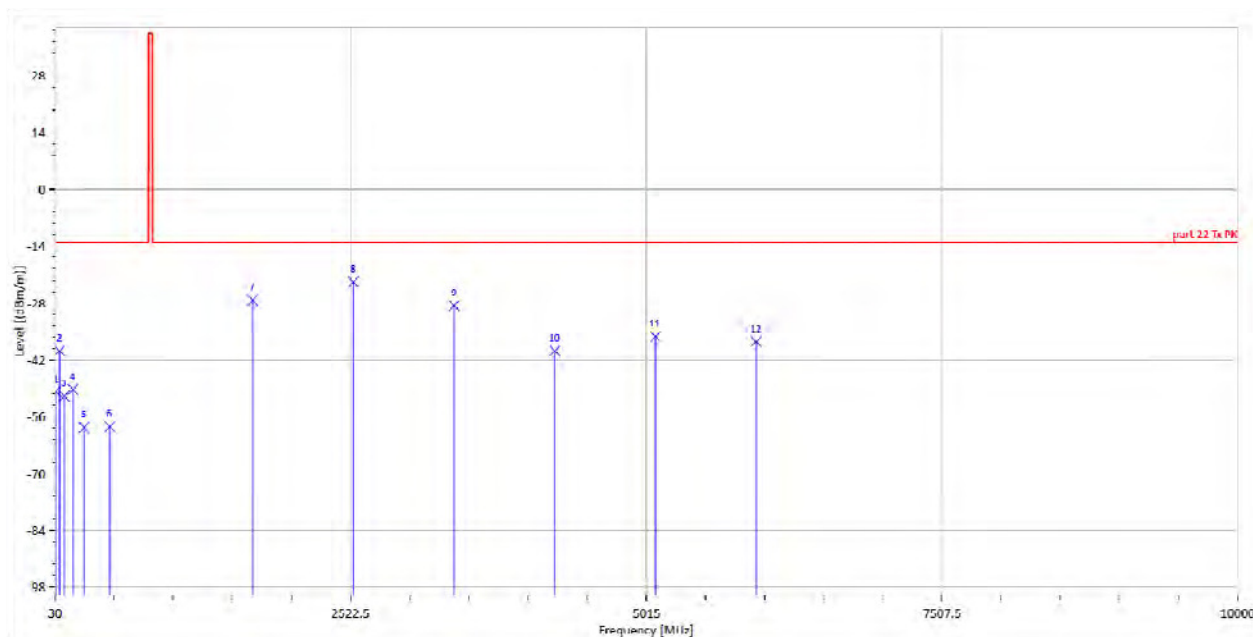
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Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	
			dBm	dBi	dB	dBm/m	dB
37.76	S	-49.75	-35.39	-13.67	-0.70	-13	-36.75
68.80	S	-39.78	-39.09	0.25	-0.94	-13	-26.78
108.57	S	-50.90	-48.47	-1.21	-1.22	-13	-37.90
182.29	S	-49.31	-53.55	5.82	-1.58	-13	-36.31
275.41	S	-58.69	-62.37	5.61	-1.92	-13	-45.69
492.69	S	-58.48	-62.36	6.37	-2.49	-13	-45.48
1697.60	H	-27.37	-31.65	9.07	-4.80	-13	-14.37
2546.40	H	-22.82	-27.39	10.48	-5.91	-13	-9.82
3395.20	H	-28.64	-33.82	12.09	-6.92	-13	-15.64
4244.00	H	-39.77	-44.54	12.40	-7.63	-13	-26.77
5092.80	H	-36.27	-40.26	12.36	-8.36	-13	-23.27
5941.60	H	-37.51	-41.20	12.78	-9.09	-13	-24.51

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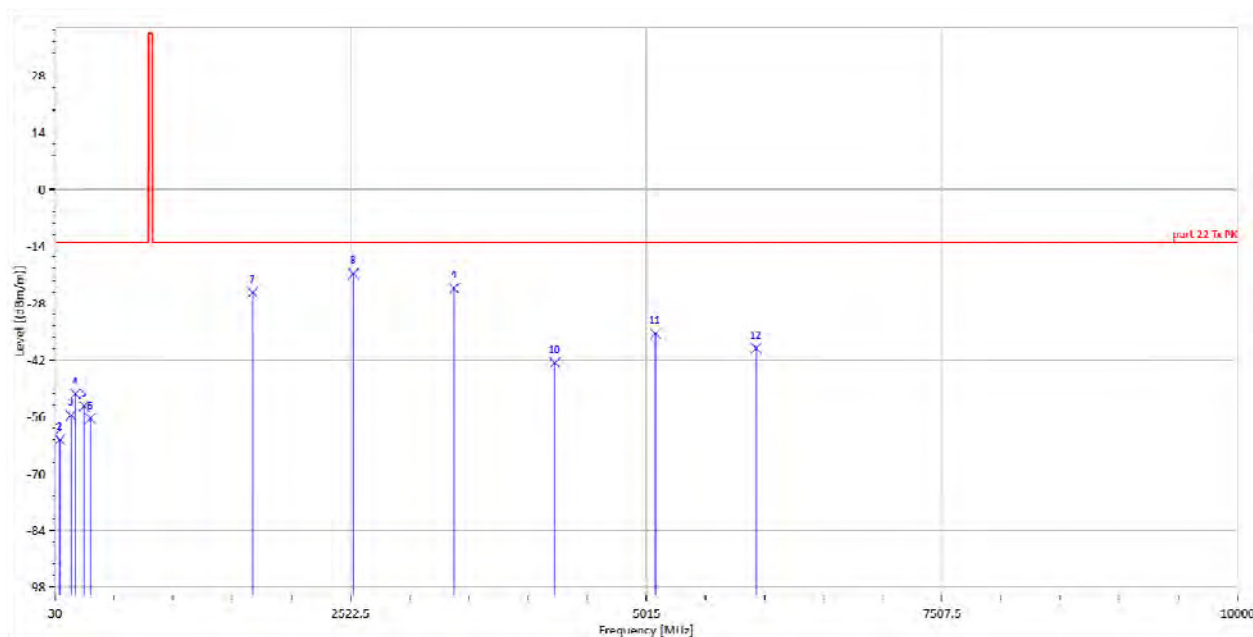
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Operation Mode :	GSM 850	Test Date :	2016/7/19
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-60.44	-41.21	-18.56	-0.67	-13	-47.44
71.71	S	-61.73	-61.15	0.46	-1.03	-13	-48.73
165.80	S	-55.72	-58.43	4.25	-1.54	-13	-42.72
202.66	S	-50.40	-54.62	5.89	-1.67	-13	-37.40
275.41	S	-53.40	-57.08	5.61	-1.92	-13	-40.40
327.79	S	-56.42	-60.34	5.92	-2.00	-13	-43.42
1697.60	H	-25.47	-29.74	9.07	-4.80	-13	-12.47
2546.40	H	-20.77	-25.34	10.48	-5.91	-13	-7.77
3395.20	H	-24.37	-29.55	12.09	-6.92	-13	-11.37
4244.00	H	-42.78	-47.55	12.40	-7.63	-13	-29.78
5092.80	H	-35.54	-39.53	12.36	-8.36	-13	-22.54
5941.60	H	-39.17	-42.86	12.78	-9.09	-13	-26.17

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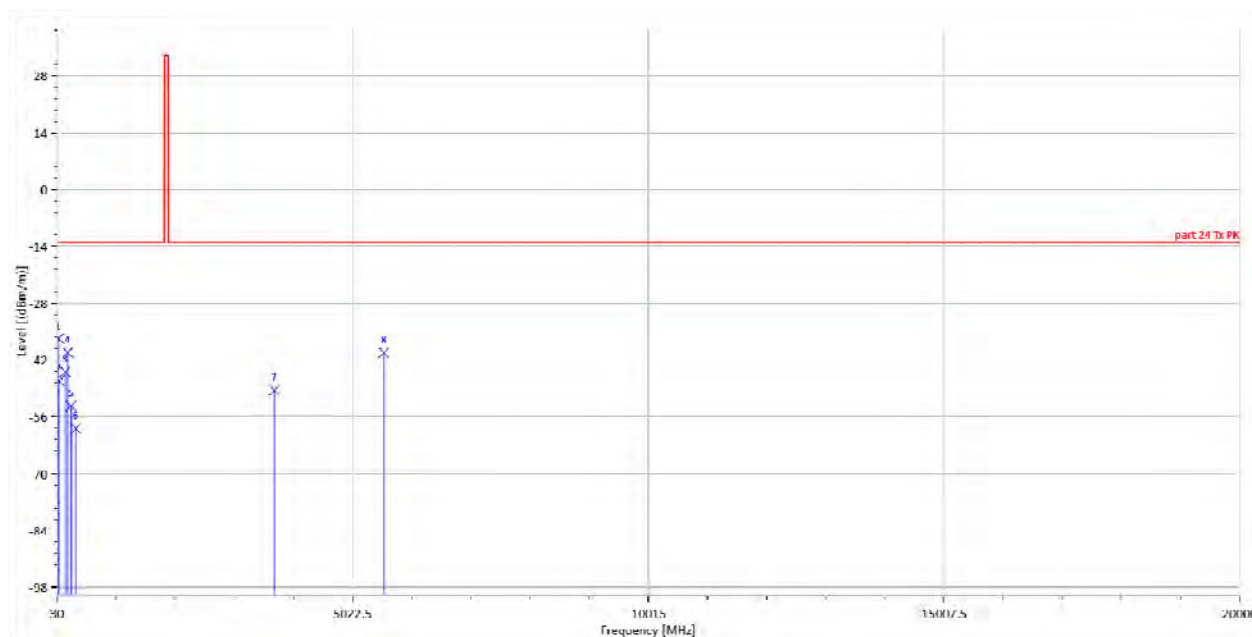
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
59.10	S	-36.67	-34.52	-1.29	-0.87	-13.01	-23.66
66.86	S	-47.13	-46.17	-0.01	-0.95	-13.01	-34.12
172.59	S	-44.92	-48.31	4.98	-1.58	-13.01	-31.91
211.39	S	-40.16	-44.58	6.12	-1.71	-13.01	-27.15
268.62	S	-53.25	-56.61	5.32	-1.96	-13.01	-40.24
349.13	S	-58.89	-62.70	5.89	-2.08	-13.01	-45.88
3700.40	H	-49.43	-54.58	12.30	-7.15	-13.01	-36.42
5550.60	H	-40.22	-44.14	12.62	-8.70	-13.01	-27.21

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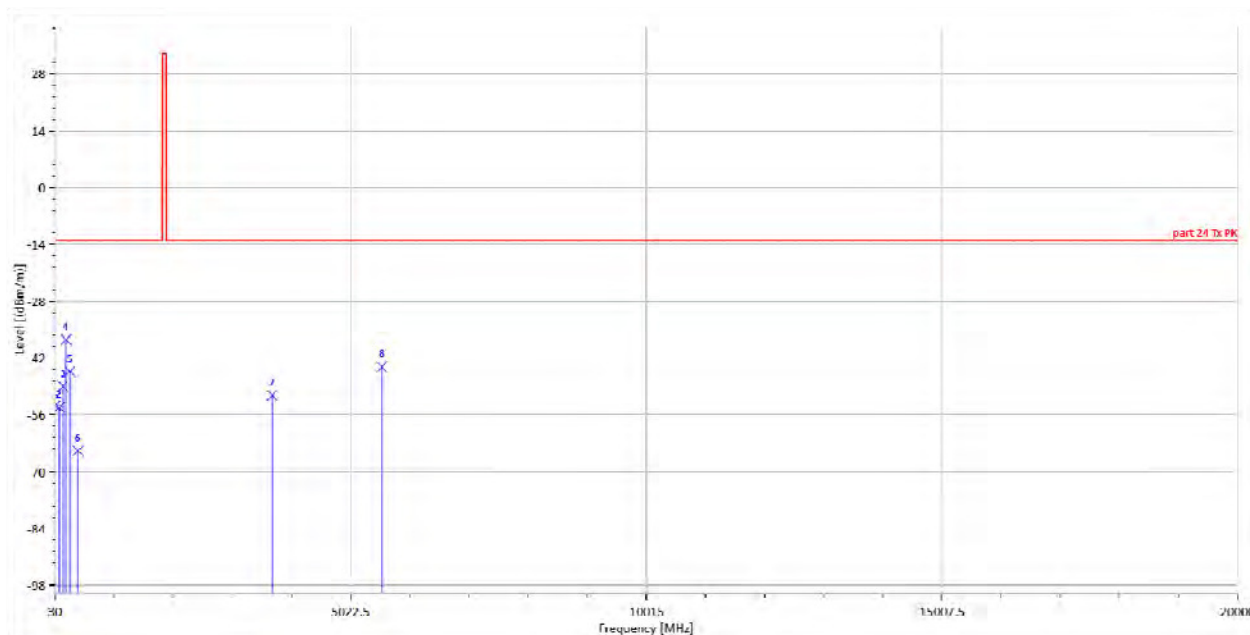
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Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-53.71	-37.74	-15.24	-0.73	-13.01	-40.70
102.75	S	-54.13	-51.95	-0.99	-1.19	-13.01	-41.12
167.74	S	-48.87	-51.82	4.46	-1.51	-13.01	-35.86
216.24	S	-37.49	-42.15	6.37	-1.71	-13.01	-24.48
283.17	S	-45.24	-49.07	5.79	-1.96	-13.01	-32.23
419.94	S	-64.81	-68.47	5.96	-2.30	-13.01	-51.80
3700.40	H	-51.12	-56.27	12.30	-7.15	-13.01	-38.11
5550.60	H	-44.14	-48.07	12.62	-8.70	-13.01	-31.13

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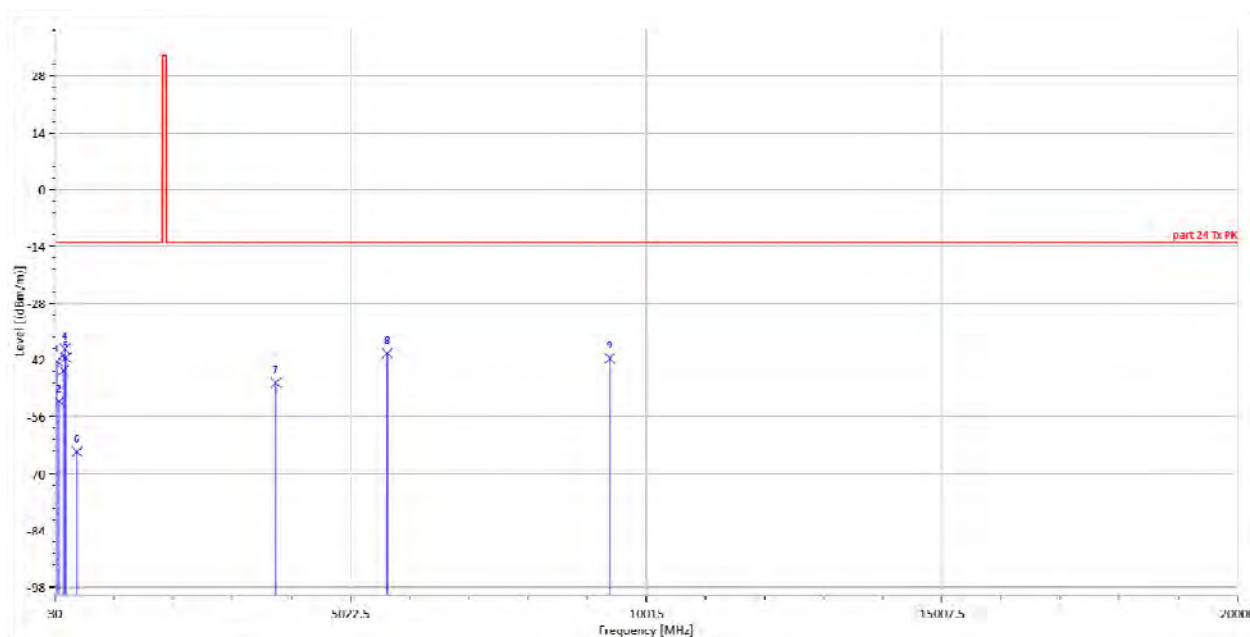
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Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
64.92	S	-42.22	-41.03	-0.27	-0.92	-13.01	-29.21
98.87	S	-52.17	-50.21	-0.79	-1.16	-13.01	-39.16
172.59	S	-44.56	-47.96	4.98	-1.58	-13.01	-31.55
199.75	S	-39.25	-43.44	5.84	-1.65	-13.01	-26.24
218.18	S	-41.38	-46.14	6.47	-1.71	-13.01	-28.37
402.48	S	-64.57	-68.17	5.78	-2.18	-13.01	-51.56
3760.00	H	-47.56	-52.65	12.30	-7.21	-13.01	-34.55
5640.00	H	-40.31	-44.16	12.66	-8.81	-13.01	-27.30
9400.00	H	-41.56	-41.84	11.66	-11.38	-13.01	-28.55

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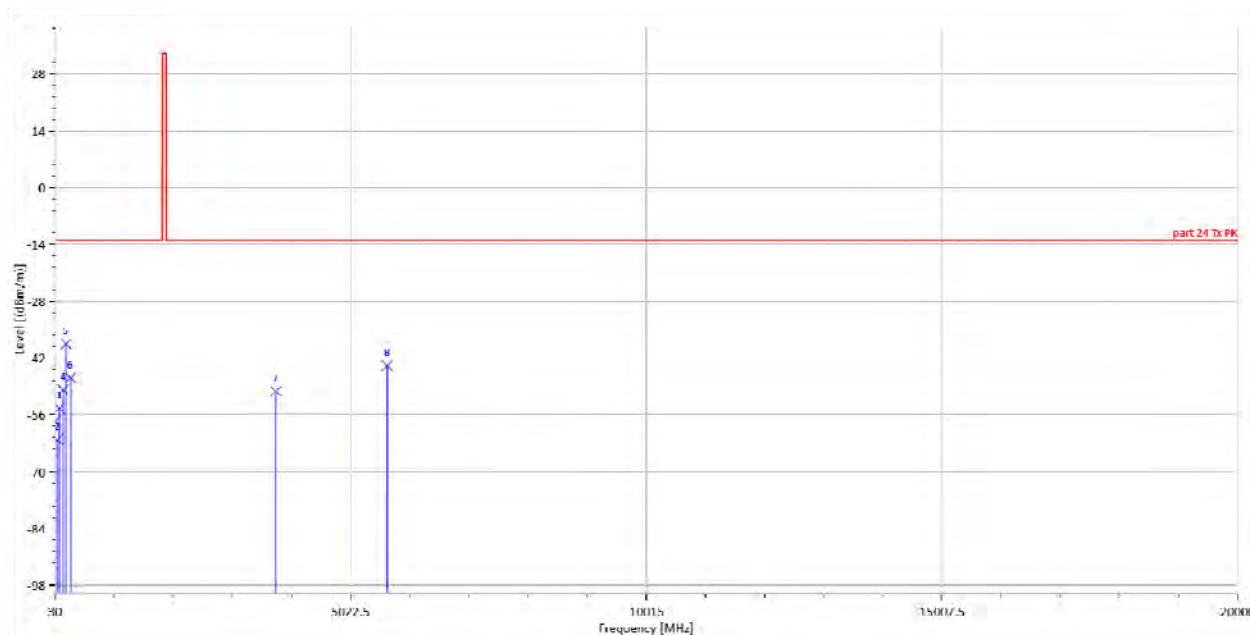
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Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-57.50	-42.33	-14.46	-0.71	-13.01	-44.49
68.80	S	-62.10	-61.41	0.25	-0.94	-13.01	-49.09
102.75	S	-54.30	-52.12	-0.99	-1.19	-13.01	-41.29
169.68	S	-49.81	-53.09	4.68	-1.40	-13.01	-36.80
217.21	S	-38.49	-43.20	6.42	-1.70	-13.01	-25.48
293.84	S	-46.85	-50.76	5.89	-1.99	-13.01	-33.84
3760.00	H	-50.16	-55.25	12.30	-7.21	-13.01	-37.15
5640.00	H	-43.84	-47.68	12.66	-8.81	-13.01	-30.83

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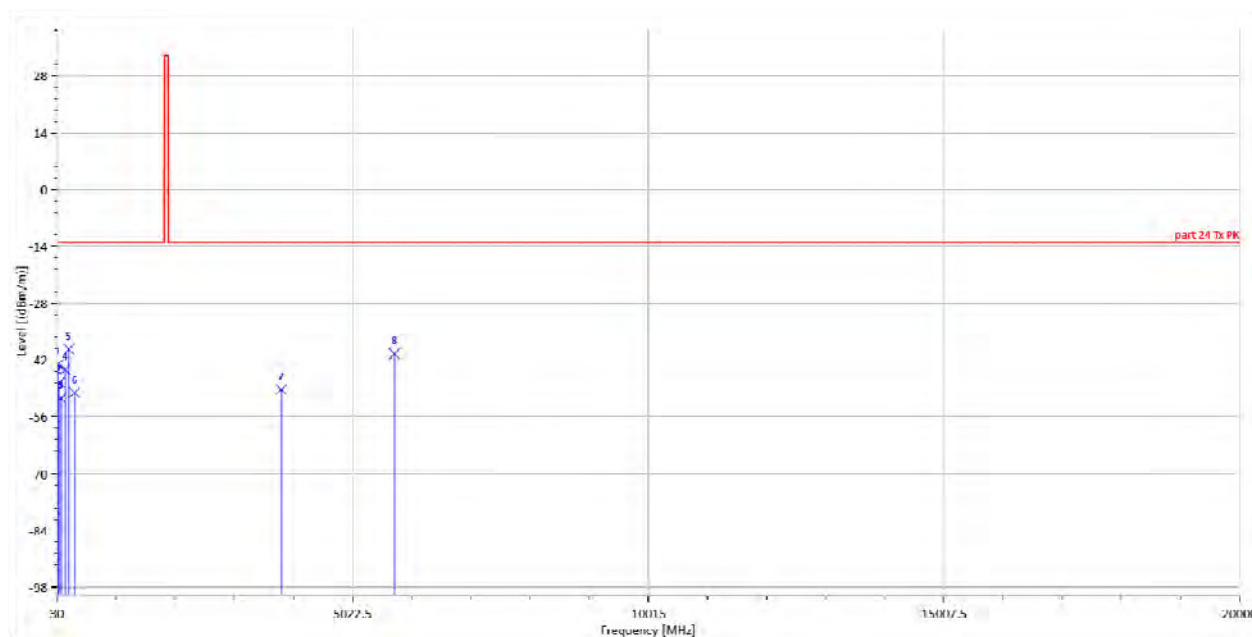
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Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
50.37	S	-43.05	-37.47	-4.76	-0.82	-13.01	-30.04
69.77	S	-47.47	-46.87	0.38	-0.98	-13.01	-34.46
101.78	S	-51.38	-49.24	-0.96	-1.18	-13.01	-38.37
170.65	S	-44.33	-47.63	4.78	-1.49	-13.01	-31.32
231.76	S	-39.32	-43.68	6.15	-1.80	-13.01	-26.31
326.82	S	-50.03	-53.84	5.92	-2.10	-13.01	-37.02
3819.60	H	-49.26	-54.29	12.30	-7.27	-13.01	-36.25
5729.40	H	-40.44	-44.23	12.69	-8.90	-13.01	-27.43

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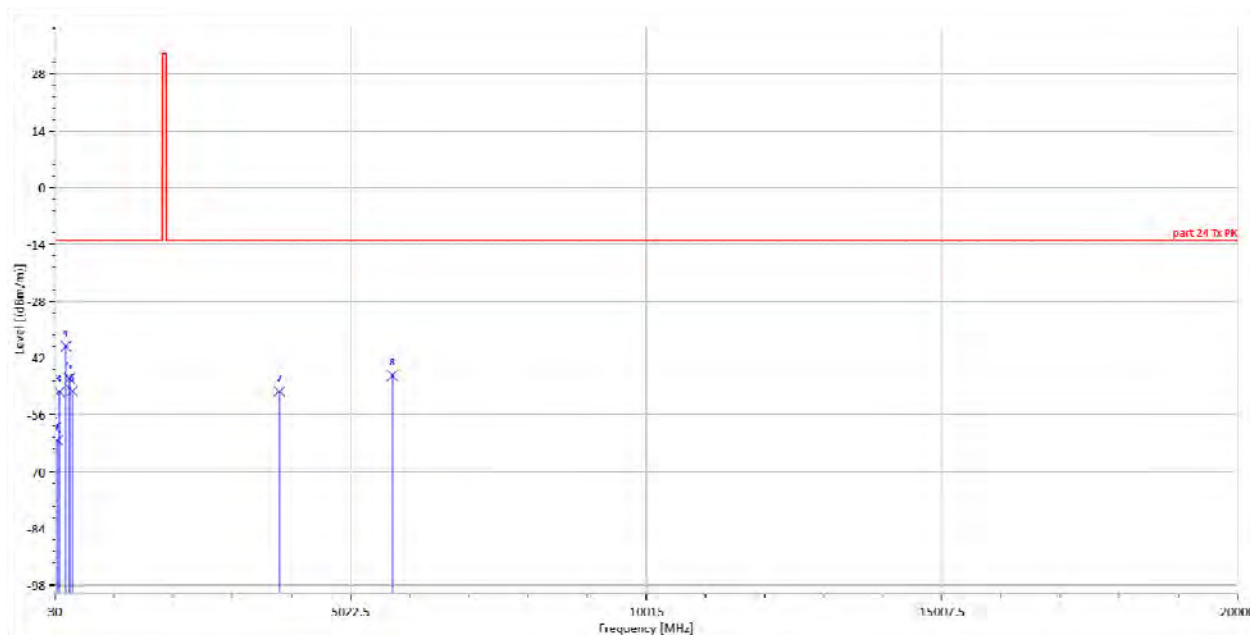
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Operation Mode :	GSM 1900	Test Date :	2016/7/15
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
37.76	S	-59.17	-44.80	-13.67	-0.70	-13.01	-46.16
69.77	S	-62.19	-61.59	0.38	-0.98	-13.01	-49.18
102.75	S	-50.32	-48.14	-0.99	-1.19	-13.01	-37.31
214.30	S	-39.06	-43.63	6.27	-1.71	-13.01	-26.05
277.35	S	-47.06	-50.76	5.67	-1.98	-13.01	-34.05
323.91	S	-50.09	-53.87	5.92	-2.15	-13.01	-37.08
3819.60	H	-50.20	-55.23	12.30	-7.27	-13.01	-37.19
5729.40	H	-46.27	-50.07	12.69	-8.90	-13.01	-33.26

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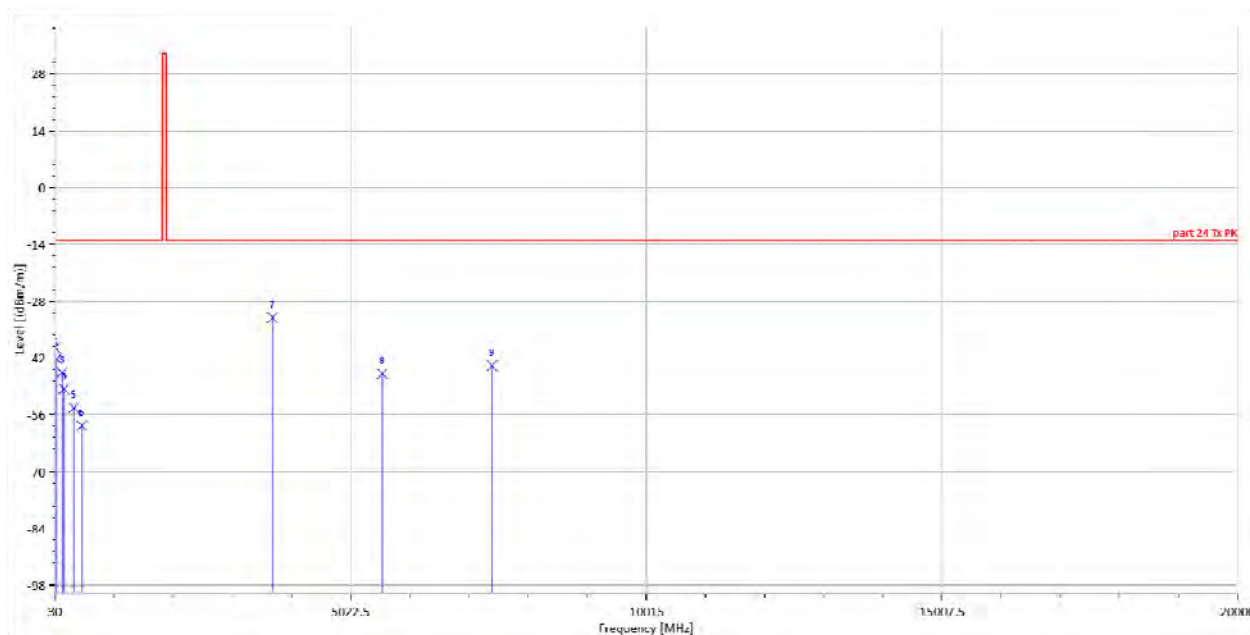
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Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
32.91	S	-39.44	-21.04	-17.72	-0.67	-13.01	-26.43
58.13	S	-42.17	-39.62	-1.67	-0.88	-13.01	-29.16
153.19	S	-45.58	-46.94	2.87	-1.50	-13.01	-32.57
183.26	S	-49.56	-53.83	5.87	-1.60	-13.01	-36.55
349.13	S	-54.21	-58.02	5.89	-2.08	-13.01	-41.20
483.96	S	-58.67	-62.67	6.35	-2.36	-13.01	-45.66
3704.80	H	-32.03	-37.19	12.30	-7.14	-13.01	-19.02
5557.20	H	-45.76	-49.73	12.62	-8.66	-13.01	-32.75
7409.60	H	-43.86	-44.69	10.81	-9.98	-13.01	-30.85

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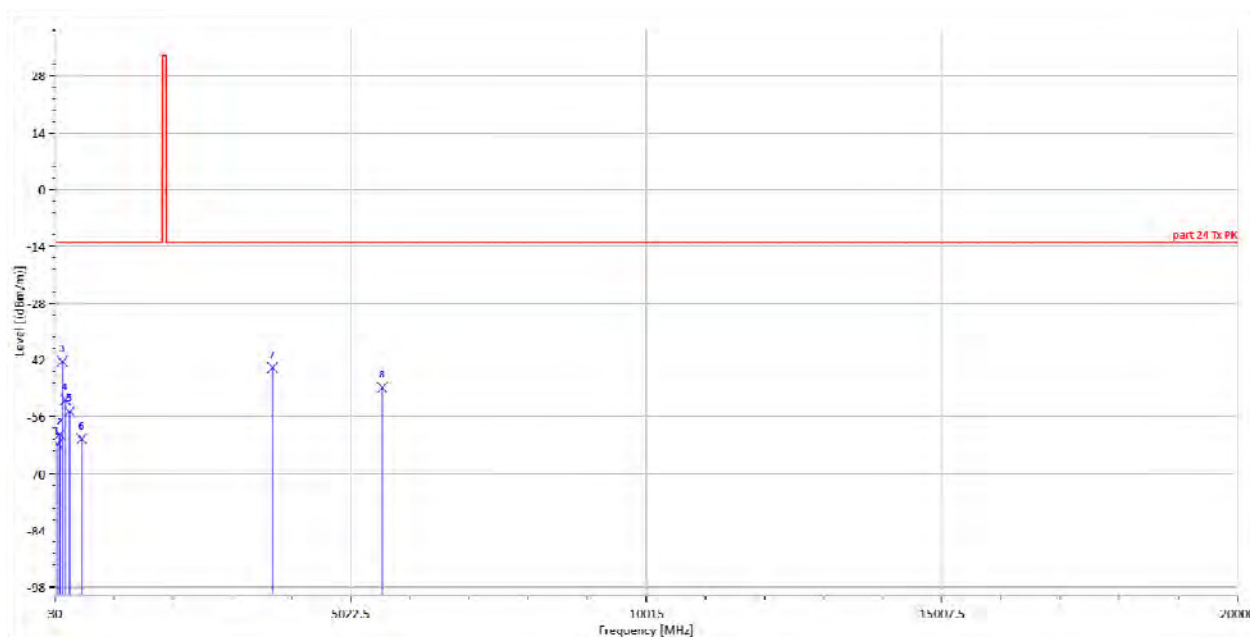
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Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
69.77	S	-62.59	-61.99	0.38	-0.98	-13.01	-49.58
111.48	S	-60.27	-57.84	-1.19	-1.23	-13.01	-47.26
157.07	S	-42.31	-44.11	3.28	-1.49	-13.01	-29.30
204.60	S	-51.81	-56.07	5.93	-1.67	-13.01	-38.80
278.32	S	-54.65	-58.37	5.70	-1.98	-13.01	-41.64
482.02	S	-61.38	-65.11	6.35	-2.62	-13.01	-48.37
3704.80	H	-43.83	-48.99	12.30	-7.14	-13.01	-30.82
5557.20	H	-48.71	-52.67	12.62	-8.66	-13.01	-35.70

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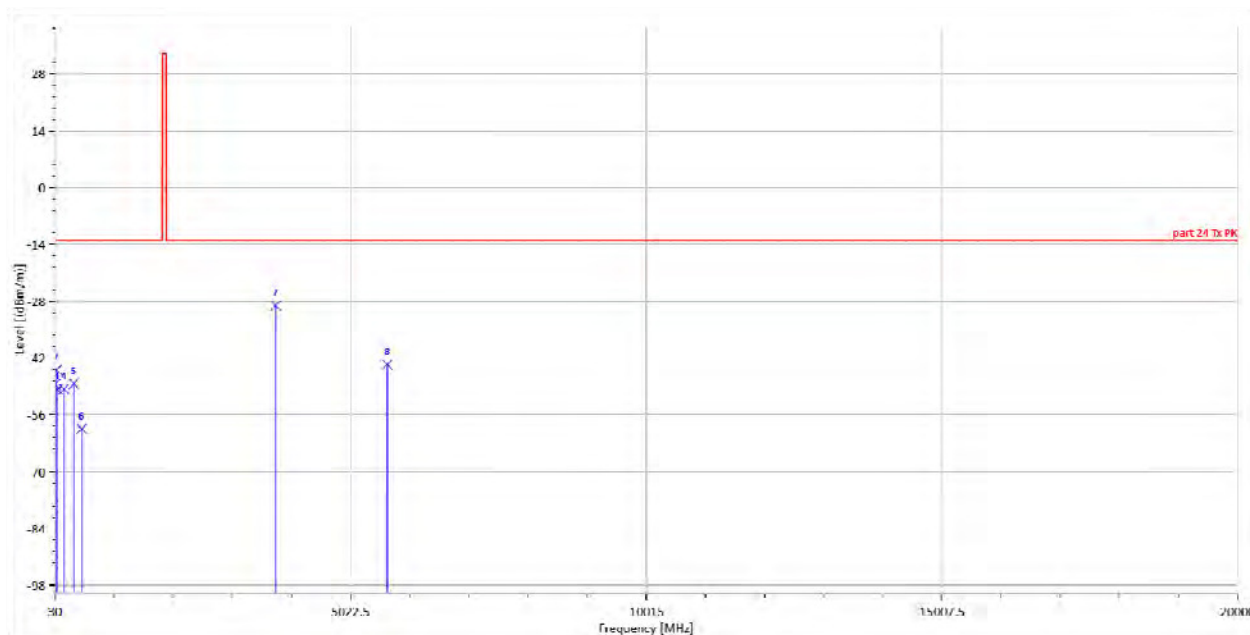
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Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-48.45	-31.71	-16.04	-0.71	-13.01	-35.44
59.10	S	-44.88	-42.73	-1.29	-0.87	-13.01	-31.87
70.74	S	-49.67	-49.07	0.43	-1.03	-13.01	-36.66
182.29	S	-49.64	-53.88	5.82	-1.58	-13.01	-36.63
349.13	S	-48.27	-52.08	5.89	-2.08	-13.01	-35.26
483.96	S	-59.43	-63.42	6.35	-2.36	-13.01	-46.42
3760.00	H	-29.01	-34.11	12.30	-7.21	-13.01	-16.00
5640.00	H	-43.55	-47.39	12.66	-8.81	-13.01	-30.54

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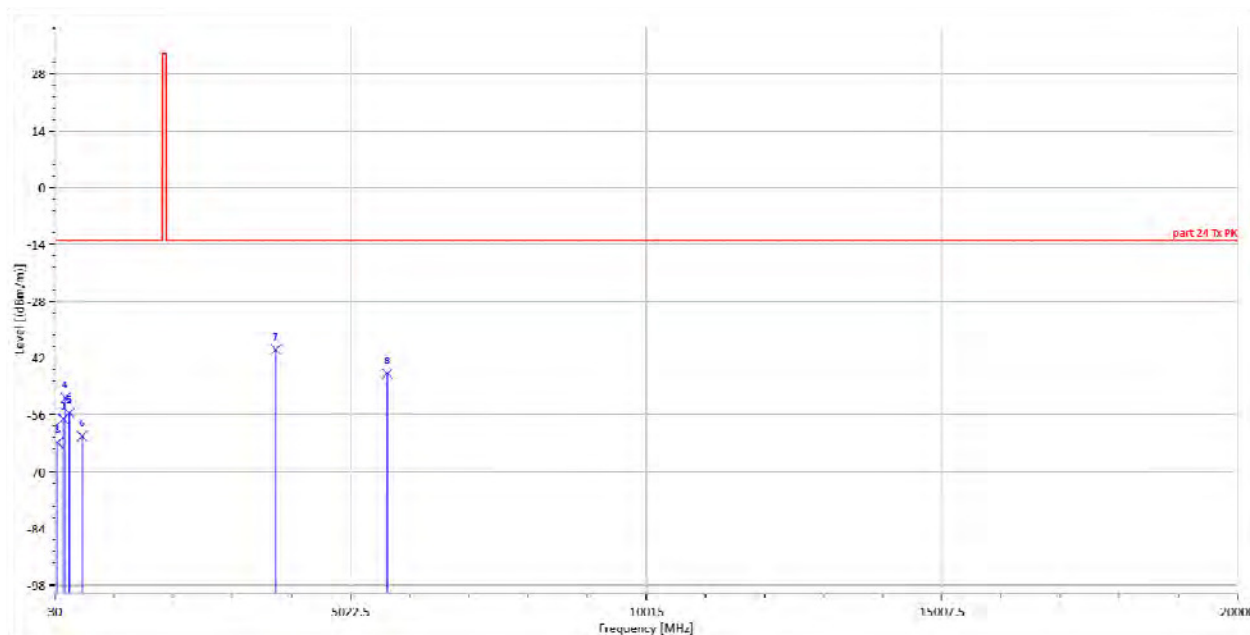
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Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-58.94	-42.20	-16.04	-0.71	-13.01	-45.93
70.74	S	-62.78	-62.17	0.43	-1.03	-13.01	-49.77
170.65	S	-56.95	-60.25	4.78	-1.49	-13.01	-43.94
204.60	S	-51.83	-56.09	5.93	-1.67	-13.01	-38.82
272.50	S	-55.50	-59.10	5.52	-1.92	-13.01	-42.49
488.81	S	-61.21	-65.01	6.36	-2.57	-13.01	-48.20
3760.00	H	-39.90	-44.99	12.30	-7.21	-13.01	-26.89
5640.00	H	-45.74	-49.59	12.66	-8.81	-13.01	-32.73

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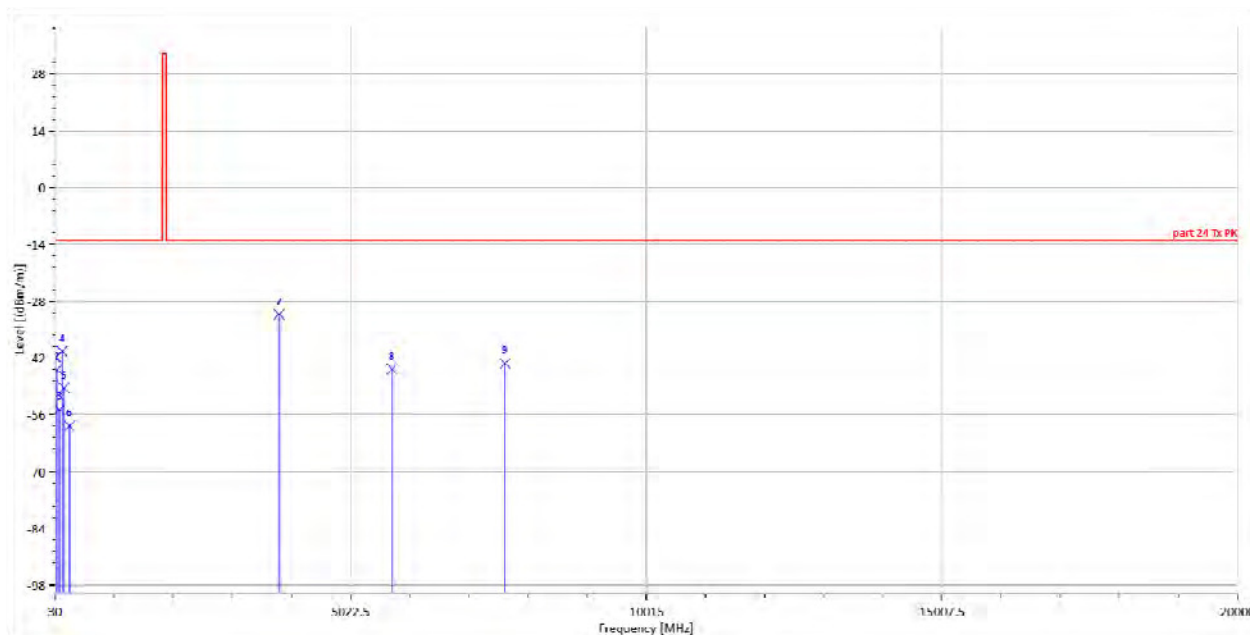
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Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
41.64	S	-41.75	-30.41	-10.59	-0.75	-13.01	-28.74
67.83	S	-44.79	-43.98	0.12	-0.93	-13.01	-31.78
105.66	S	-54.62	-52.32	-1.10	-1.20	-13.01	-41.61
152.22	S	-40.34	-41.75	2.77	-1.36	-13.01	-27.33
183.26	S	-49.35	-53.61	5.87	-1.60	-13.01	-36.34
278.32	S	-58.70	-62.42	5.70	-1.98	-13.01	-45.69
3815.20	H	-31.18	-36.23	12.30	-7.25	-13.01	-18.17
5722.80	H	-44.69	-48.47	12.69	-8.91	-13.01	-31.68
7630.40	H	-43.28	-43.63	10.67	-10.32	-13.01	-30.27

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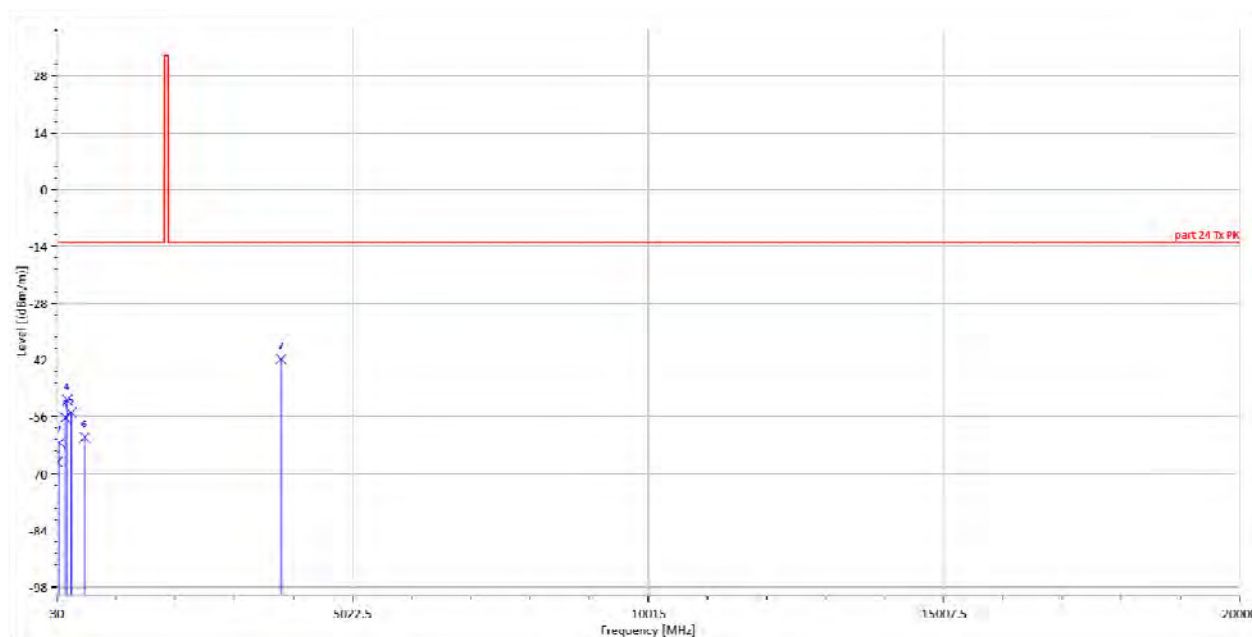
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Operation Mode :	WCDMA B2	Test Date :	2016/7/19
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-67.10	-51.93	-14.46	-0.71	-13.01	-54.09
70.74	S	-62.34	-61.74	0.43	-1.03	-13.01	-49.33
170.65	S	-56.12	-59.42	4.78	-1.49	-13.01	-43.11
203.63	S	-51.85	-56.09	5.91	-1.67	-13.01	-38.84
270.56	S	-54.90	-58.44	5.45	-1.91	-13.01	-41.89
497.54	S	-60.99	-64.92	6.38	-2.46	-13.01	-47.98
3815.20	H	-41.75	-46.80	12.30	-7.25	-13.01	-28.74

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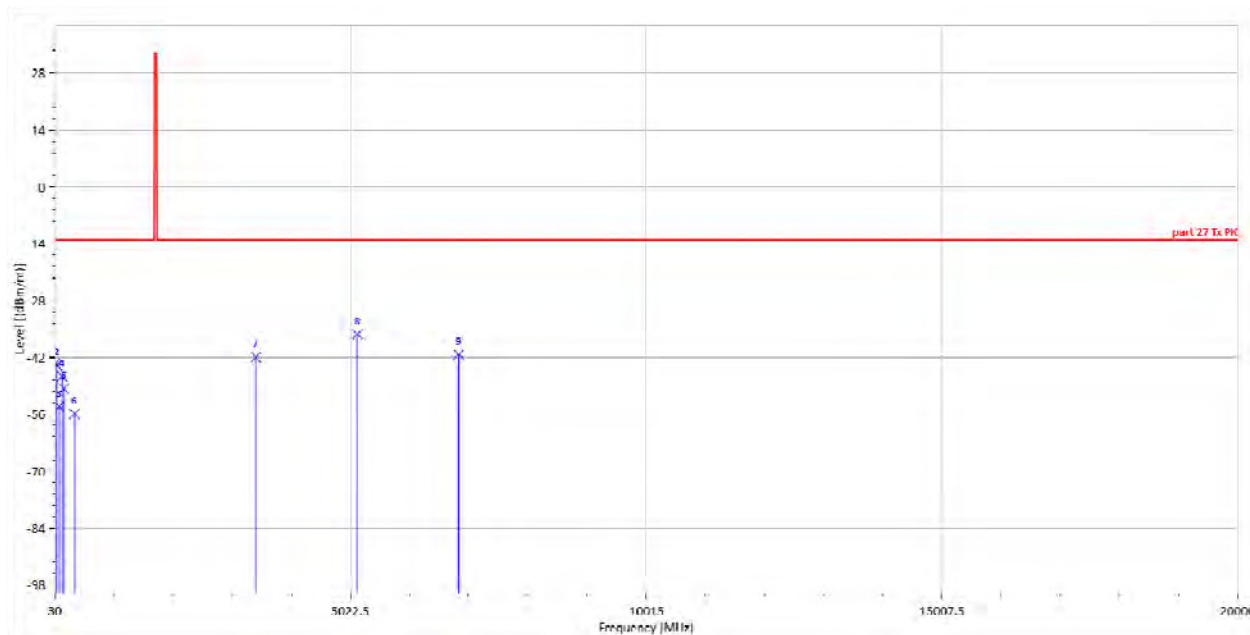
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
41.64	S	-43.40	-32.05	-10.59	-0.75	-13.01	-30.39
62.98	S	-43.89	-42.38	-0.53	-0.98	-13.01	-30.88
110.51	S	-54.09	-51.61	-1.24	-1.24	-13.01	-41.08
153.19	S	-46.65	-48.02	2.87	-1.50	-13.01	-33.64
184.23	S	-49.69	-53.96	5.91	-1.64	-13.01	-36.68
364.65	S	-55.88	-59.45	5.85	-2.27	-13.01	-42.87
3424.80	H	-41.96	-47.18	12.15	-6.93	-13.01	-28.95
5137.20	H	-36.24	-40.21	12.38	-8.42	-13.01	-23.23
6849.60	H	-41.24	-42.97	11.45	-9.73	-13.01	-28.23

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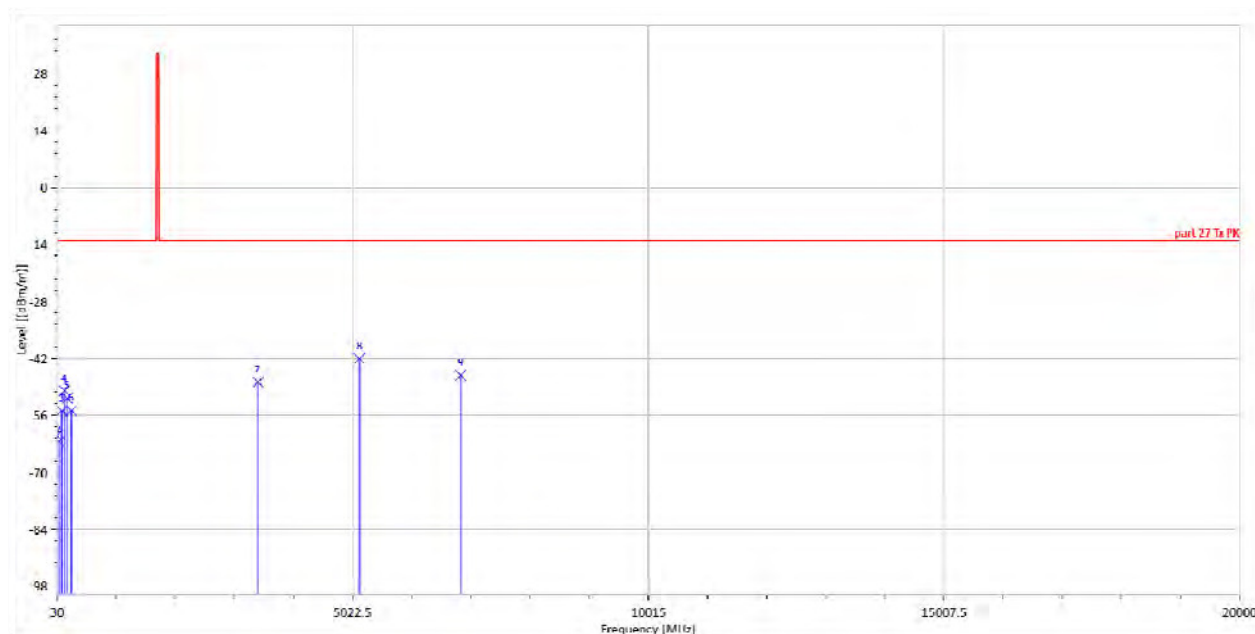
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Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-60.99	-43.42	-16.88	-0.68	-13.01	-47.98
70.74	S	-62.52	-61.91	0.43	-1.03	-13.01	-49.51
112.45	S	-54.89	-52.51	-1.15	-1.23	-13.01	-41.88
158.04	S	-49.96	-51.83	3.38	-1.52	-13.01	-36.95
204.60	S	-51.82	-56.08	5.93	-1.67	-13.01	-38.81
274.44	S	-54.86	-58.52	5.58	-1.91	-13.01	-41.85
3424.80	H	-47.83	-53.05	12.15	-6.93	-13.01	-34.82
5137.20	H	-42.12	-46.08	12.38	-8.42	-13.01	-29.11
6849.60	H	-46.18	-47.90	11.45	-9.73	-13.01	-33.17

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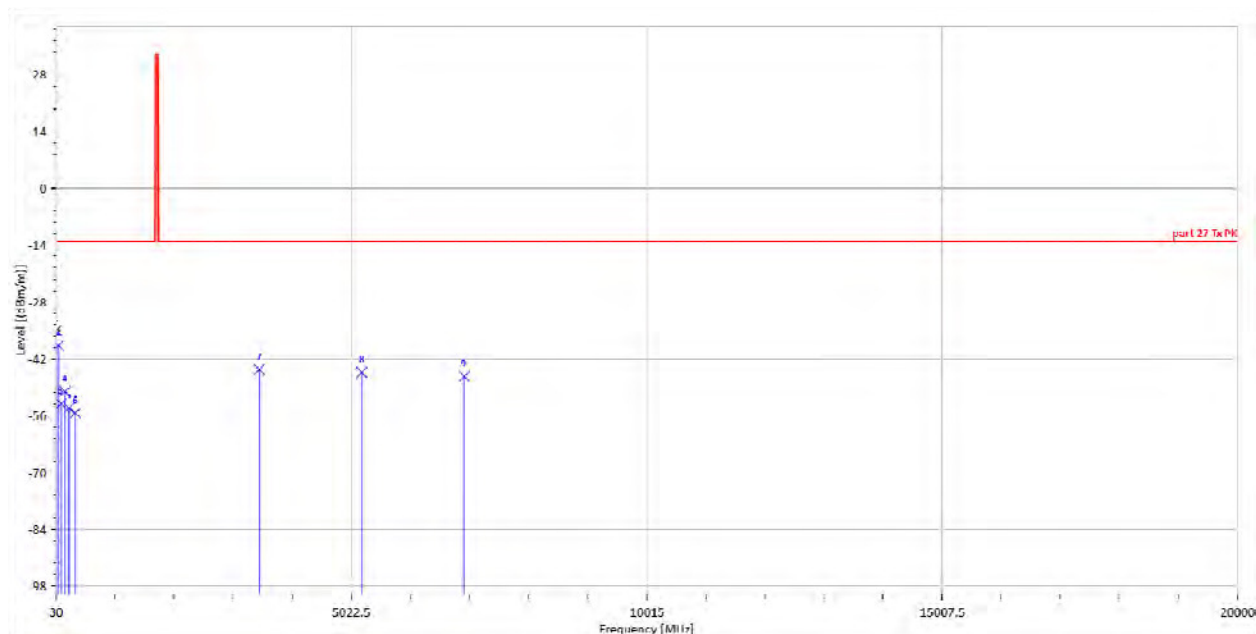
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Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
			Level	Gain	Loss	@3m	
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
33.88	S	-35.04	-17.48	-16.88	-0.68	-13.01	-22.03
69.77	S	-38.70	-38.10	0.38	-0.98	-13.01	-25.69
116.33	S	-53.09	-50.86	-0.97	-1.26	-13.01	-40.08
181.32	S	-50.06	-54.25	5.78	-1.59	-13.01	-37.05
249.22	S	-54.16	-57.58	5.30	-1.89	-13.01	-41.15
355.92	S	-55.37	-59.00	5.87	-2.25	-13.01	-42.36
3465.20	H	-44.66	-50.03	12.23	-6.86	-13.01	-31.65
5197.80	H	-45.37	-49.30	12.42	-8.48	-13.01	-32.36
6930.40	H	-46.32	-47.90	11.37	-9.78	-13.01	-33.31

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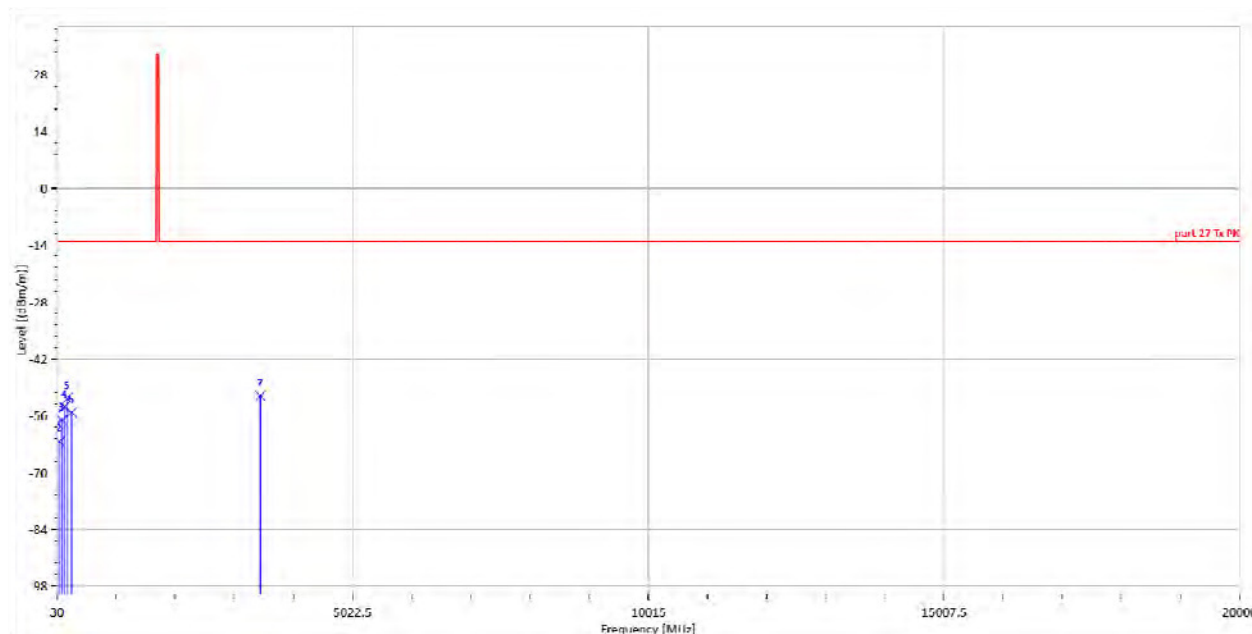
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Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-57.88	-41.13	-16.04	-0.71	-13.01	-44.87
70.74	S	-62.37	-61.77	0.43	-1.03	-13.01	-49.36
115.36	S	-57.17	-54.90	-1.02	-1.26	-13.01	-44.16
157.07	S	-53.90	-55.70	3.28	-1.49	-13.01	-40.89
203.63	S	-51.74	-55.98	5.91	-1.67	-13.01	-38.73
277.35	S	-55.24	-58.93	5.67	-1.98	-13.01	-42.23
3465.20	H	-51.12	-56.49	12.23	-6.86	-13.01	-38.11

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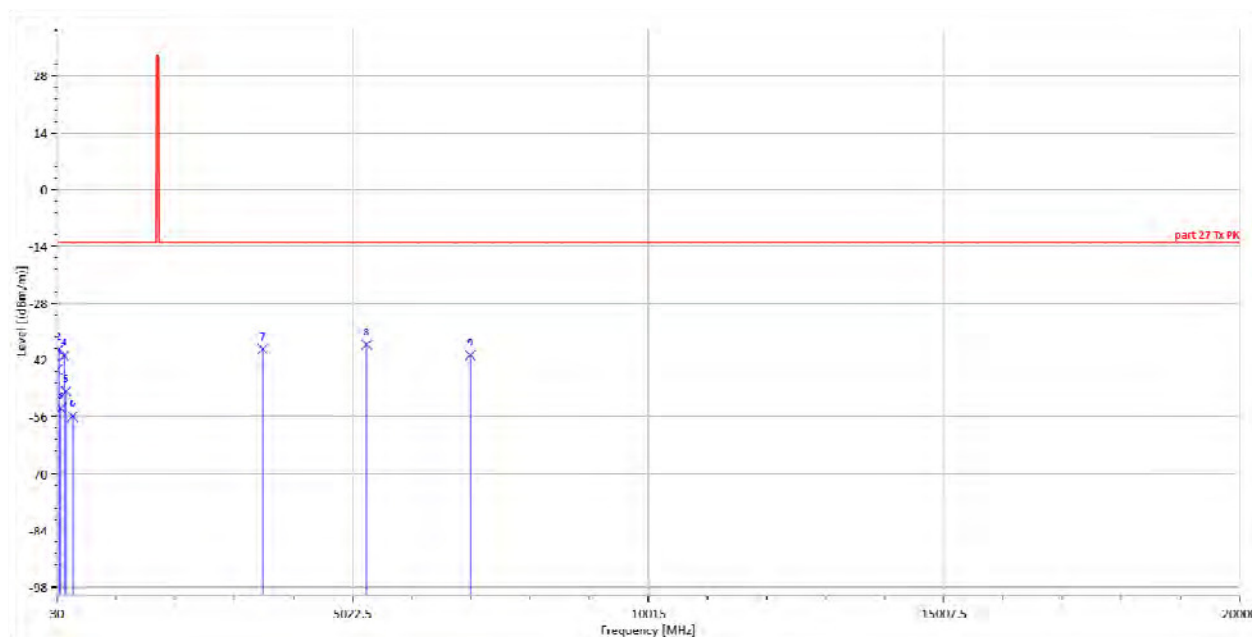
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Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
32.91	S	-44.36	-25.96	-17.72	-0.67	-13.01	-31.35
70.74	S	-39.25	-38.65	0.43	-1.03	-13.01	-26.24
93.05	S	-53.86	-52.45	-0.28	-1.14	-13.01	-40.85
152.22	S	-40.93	-42.34	2.77	-1.36	-13.01	-27.92
184.23	S	-49.72	-53.99	5.91	-1.64	-13.01	-36.71
295.78	S	-55.82	-59.71	5.91	-2.02	-13.01	-42.81
3505.20	H	-39.27	-44.54	12.30	-7.03	-13.01	-26.26
5257.80	H	-38.18	-42.08	12.45	-8.55	-13.01	-25.17
7010.40	H	-40.77	-42.10	11.29	-9.96	-13.01	-27.76

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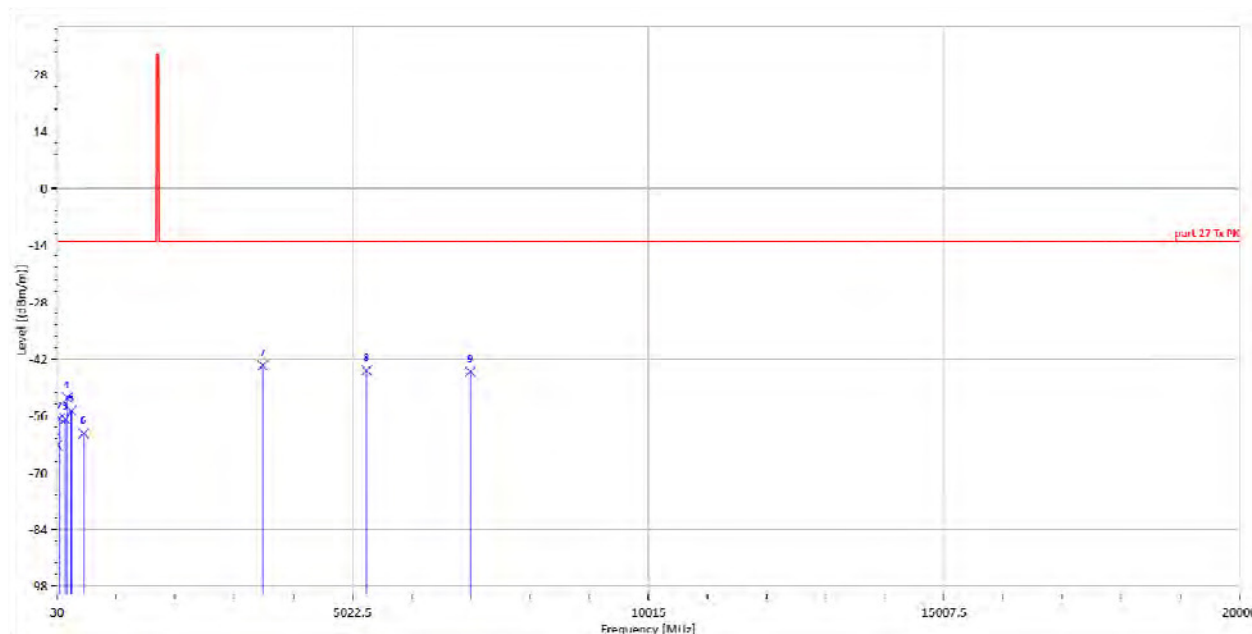
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Operation Mode :	WCDMA B4	Test Date :	2016/7/19
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
37.76	S	-63.27	-48.91	-13.67	-0.70	-13.01	-50.26
79.47	S	-56.70	-56.30	0.66	-1.06	-13.01	-43.69
170.65	S	-56.90	-60.20	4.78	-1.49	-13.01	-43.89
203.63	S	-51.62	-55.86	5.91	-1.67	-13.01	-38.61
271.53	S	-54.82	-58.39	5.49	-1.91	-13.01	-41.81
482.02	S	-60.40	-64.13	6.35	-2.62	-13.01	-47.39
3505.20	H	-43.65	-48.92	12.30	-7.03	-13.01	-30.64
5257.80	H	-44.89	-48.79	12.45	-8.55	-13.01	-31.88
7010.40	H	-45.14	-46.47	11.29	-9.96	-13.01	-32.13

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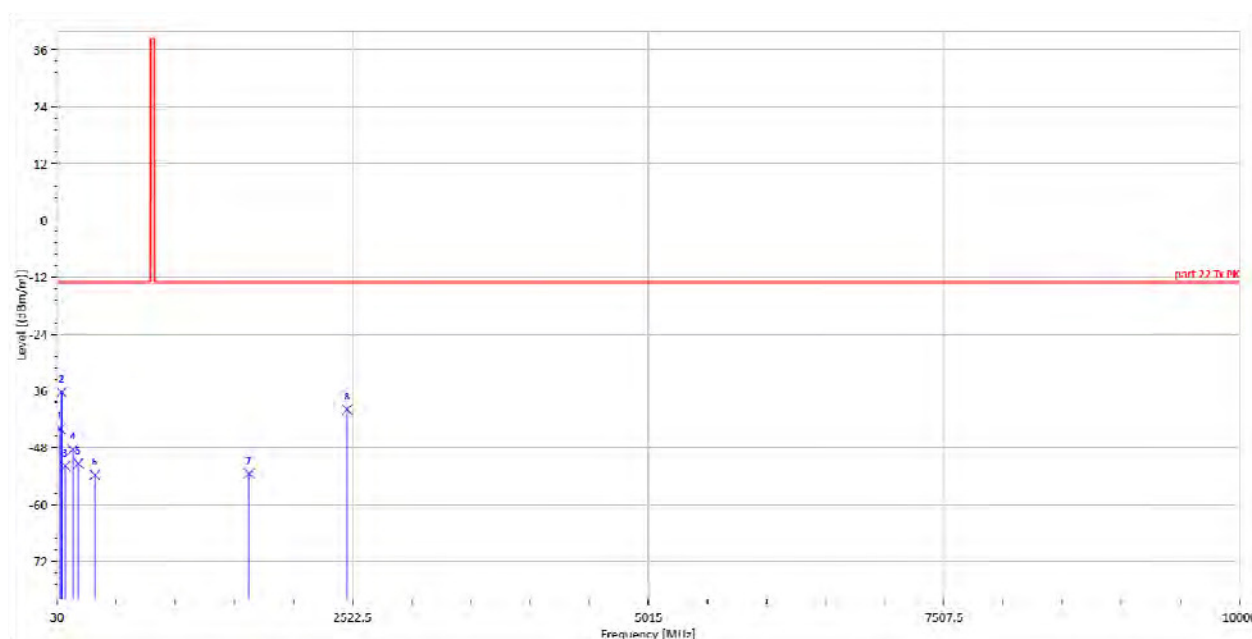
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode :	WCDMA B5	Test Date :	2016/7/19
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
57.16	S	-44.02	-38.94	-4.21	-0.87	-13	-31.02
69.77	S	-36.32	-33.57	-1.77	-0.98	-13	-23.32
98.87	S	-51.82	-47.72	-2.94	-1.16	-13	-38.82
163.86	S	-48.45	-48.75	1.88	-1.58	-13	-35.45
210.42	S	-51.33	-53.55	3.93	-1.70	-13	-38.33
351.07	S	-53.78	-55.35	3.74	-2.16	-13	-40.78
1651.00	H	-53.48	-55.52	6.76	-4.72	-13	-40.48
2477.00	H	-39.93	-42.33	8.24	-5.84	-13	-26.93

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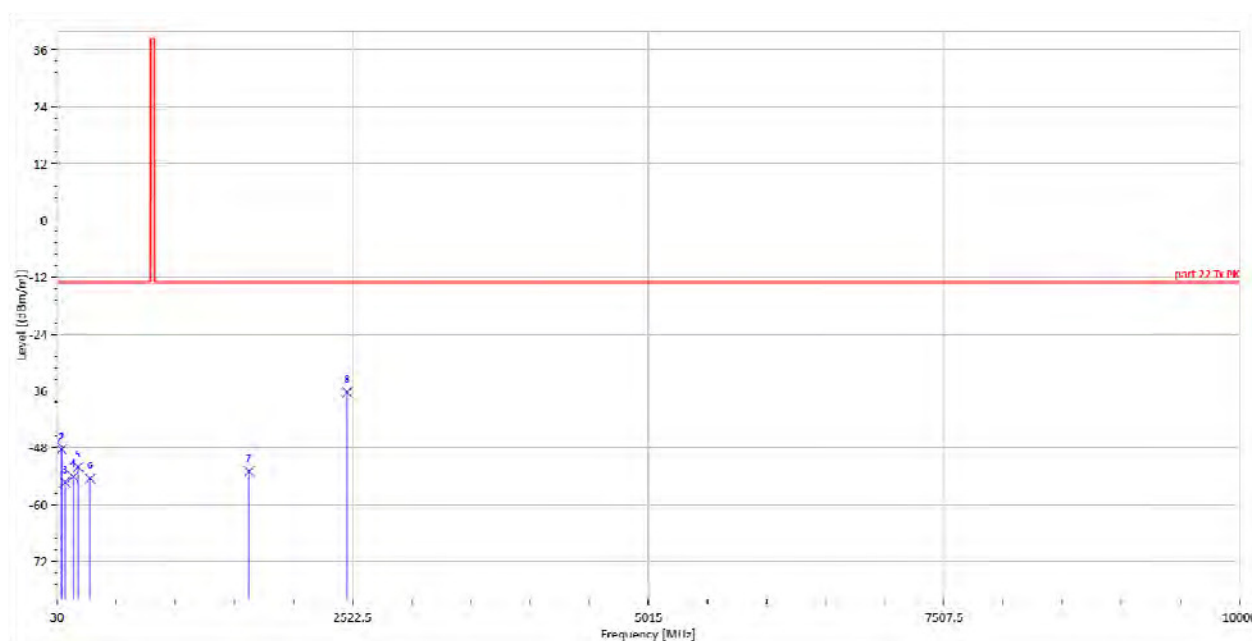
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Operation Mode :	WCDMA B5	Test Date :	2016/7/19
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-46.87	-27.16	-19.03	-0.68	-13	-33.87
68.80	S	-48.38	-45.54	-1.90	-0.94	-13	-35.38
98.87	S	-55.30	-51.20	-2.94	-1.16	-13	-42.30
167.74	S	-54.10	-54.90	2.31	-1.51	-13	-41.10
209.45	S	-52.07	-54.28	3.89	-1.69	-13	-39.07
309.36	S	-54.50	-56.31	3.79	-1.98	-13	-41.50
1651.00	H	-53.01	-55.04	6.76	-4.72	-13	-40.01
2477.00	H	-36.33	-38.73	8.24	-5.84	-13	-23.33

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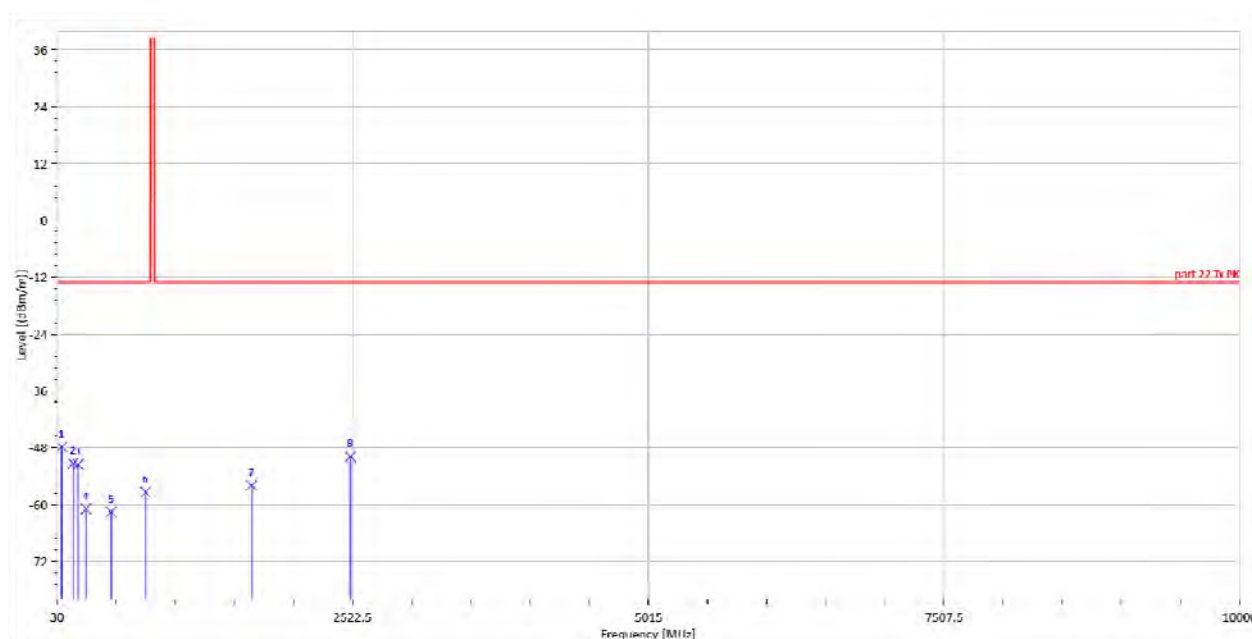
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Operation Mode :	WCDMA B5	Test Date :	2016/7/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
69.77	S	-47.84	-45.09	-1.77	-0.98	-13	-34.84
167.74	S	-51.32	-52.12	2.31	-1.51	-13	-38.32
208.48	S	-51.54	-53.73	3.87	-1.68	-13	-38.54
275.41	S	-60.91	-62.44	3.46	-1.92	-13	-47.91
486.87	S	-61.56	-63.22	4.21	-2.55	-13	-48.56
776.90	S	-57.41	-59.79	5.49	-3.12	-13	-44.41
1672.00	H	-56.00	-58.06	6.83	-4.78	-13	-43.00
2505.00	H	-49.91	-52.28	8.26	-5.89	-13	-36.91

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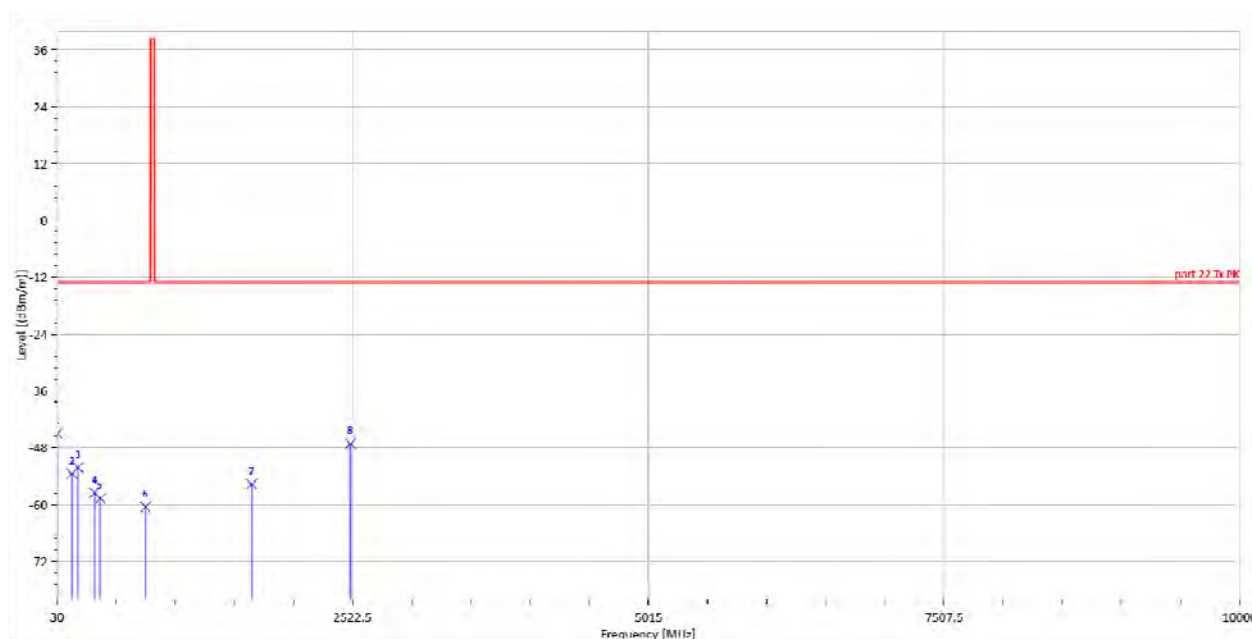
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Operation Mode :	WCDMA B5	Test Date :	2016/7/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-44.95	-26.06	-18.19	-0.71	-13	-31.95
156.10	S	-53.50	-53.06	1.03	-1.47	-13	-40.50
207.51	S	-52.16	-54.34	3.85	-1.67	-13	-39.16
346.22	S	-57.56	-59.15	3.75	-2.16	-13	-44.56
395.69	S	-58.72	-59.98	3.61	-2.36	-13	-45.72
776.90	S	-60.55	-62.93	5.49	-3.12	-13	-47.55
1672.00	H	-55.72	-57.78	6.83	-4.78	-13	-42.72
2505.00	H	-47.20	-49.57	8.26	-5.89	-13	-34.20

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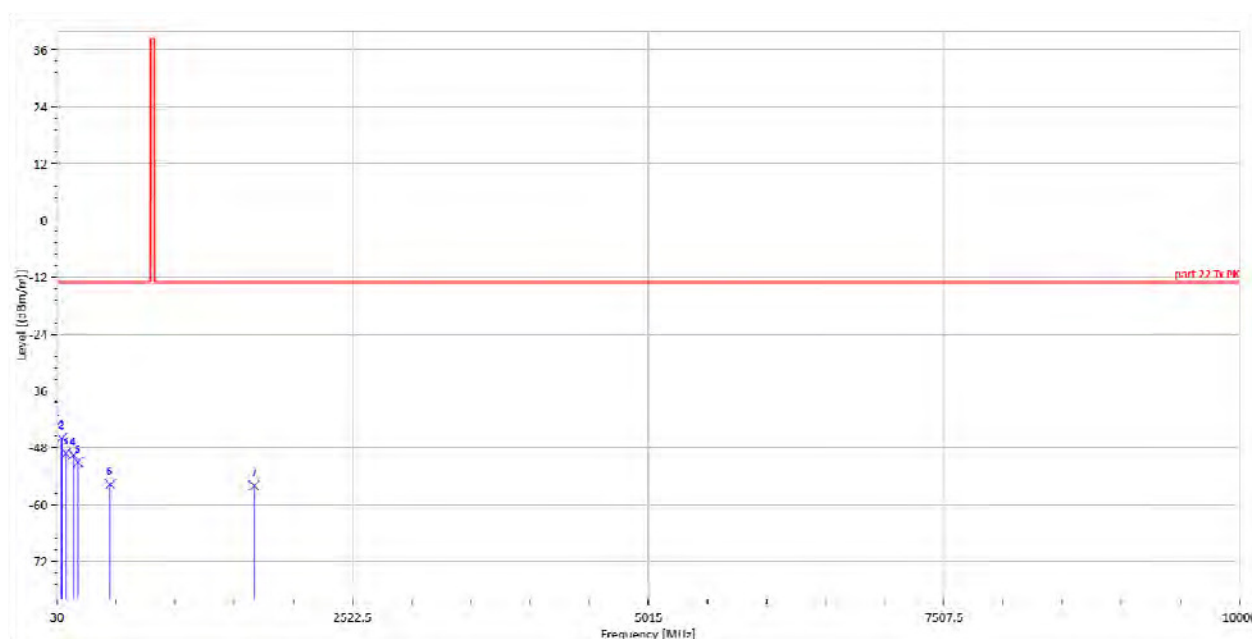
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Operation Mode :	WCDMA B5	Test Date :	2016/7/19
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-43.25	-23.54	-19.03	-0.68	-13	-30.25
69.77	S	-45.99	-43.24	-1.77	-0.98	-13	-32.99
105.66	S	-49.23	-44.78	-3.25	-1.20	-13	-36.23
168.71	S	-49.52	-50.52	2.42	-1.42	-13	-36.52
207.51	S	-51.08	-53.26	3.85	-1.67	-13	-38.08
478.14	S	-55.75	-57.34	4.19	-2.59	-13	-42.75
1693.20	H	-56.05	-58.16	6.91	-4.80	-13	-43.05

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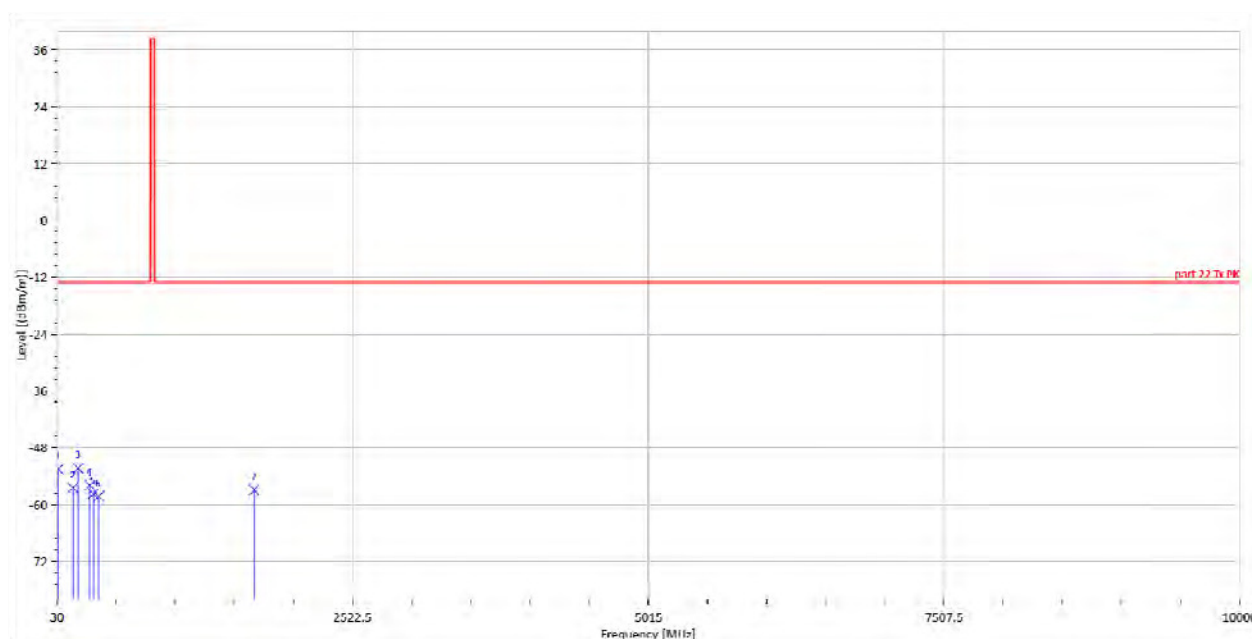
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Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
41.64	S	-52.52	-39.03	-12.74	-0.75	-13	-39.52
164.83	S	-56.51	-56.97	1.99	-1.52	-13	-43.51
209.45	S	-52.33	-54.54	3.89	-1.69	-13	-39.33
307.42	S	-55.96	-57.68	3.79	-2.08	-13	-42.96
337.49	S	-57.80	-59.50	3.76	-2.05	-13	-44.80
382.11	S	-58.27	-59.67	3.65	-2.25	-13	-45.27
1693.20	H	-56.92	-59.03	6.91	-4.80	-13	-43.92

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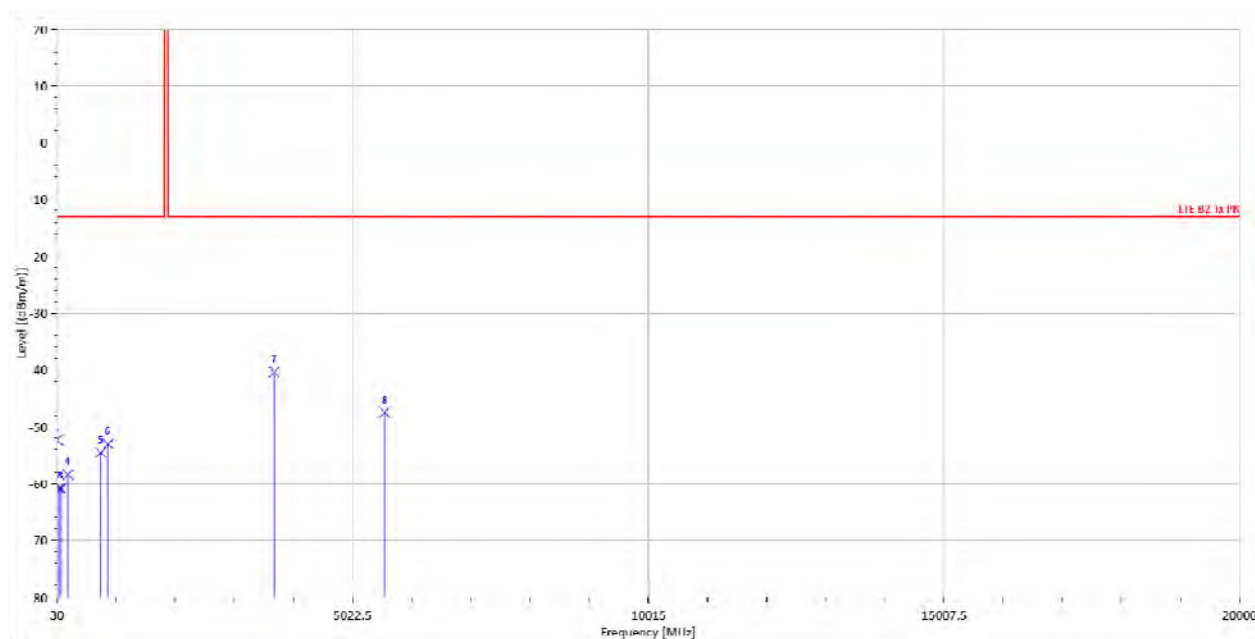
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTE_B2_BW_10M_16QAM_RB_1_0	Test Date :	2016/7/18
Fundamental Frequency :	1855 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	
		dBm	dBm	dBi	dB	dBm/m	dB
35.82	S	-52.35	-36.38	-15.24	-0.73	-13	-39.35
64.92	S	-60.85	-59.66	-0.27	-0.92	-13	-47.85
99.84	S	-60.87	-58.82	-0.88	-1.17	-13	-47.87
215.27	S	-58.41	-63.02	6.32	-1.71	-13	-45.41
771.08	S	-54.57	-58.82	7.64	-3.38	-13	-41.57
892.33	S	-53.03	-57.33	7.76	-3.47	-13	-40.03
3702.00	H	-40.39	-45.54	12.30	-7.15	-13	-27.39
5564.00	H	-47.48	-51.39	12.63	-8.72	-13	-34.48

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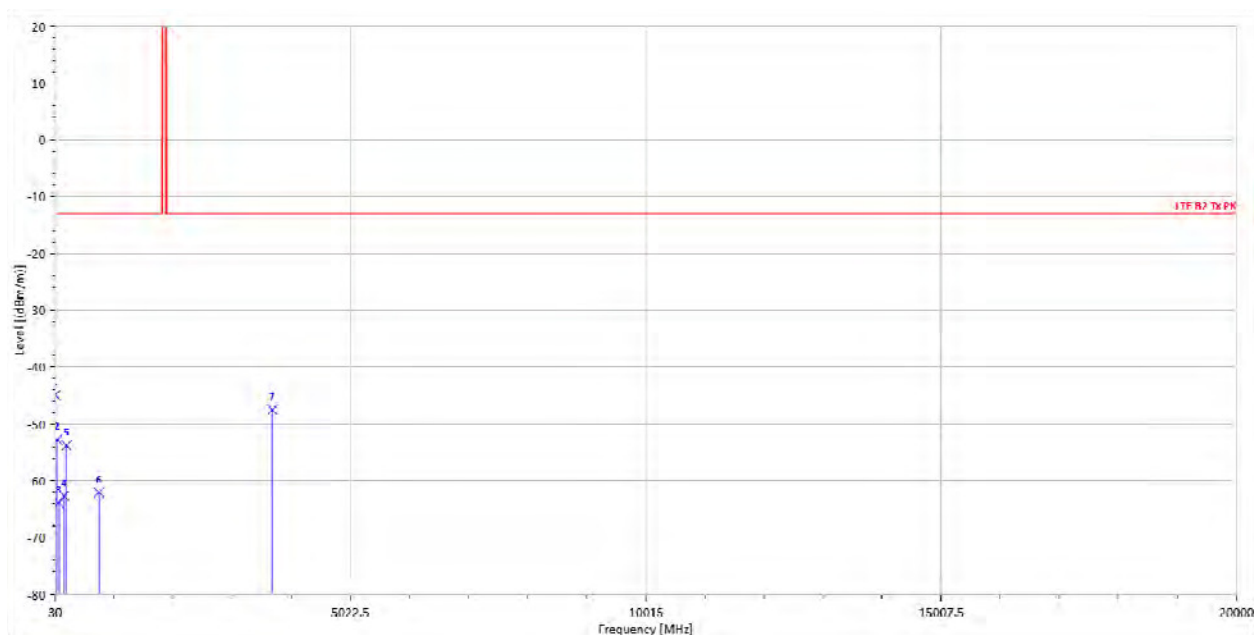
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Operation Mode : LTE_B2_BW_10M_16QAM_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 1855 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-44.93	-29.76	-14.46	-0.71	-13	-31.93
63.95	S	-52.82	-51.49	-0.40	-0.93	-13	-39.82
95.96	S	-63.91	-62.23	-0.53	-1.15	-13	-50.91
182.29	S	-62.66	-66.90	5.82	-1.58	-13	-49.66
223.03	S	-53.80	-58.52	6.46	-1.75	-13	-40.80
773.02	S	-62.03	-66.56	7.64	-3.11	-13	-49.03
3702.00	H	-47.51	-52.67	12.30	-7.15	-13	-34.51

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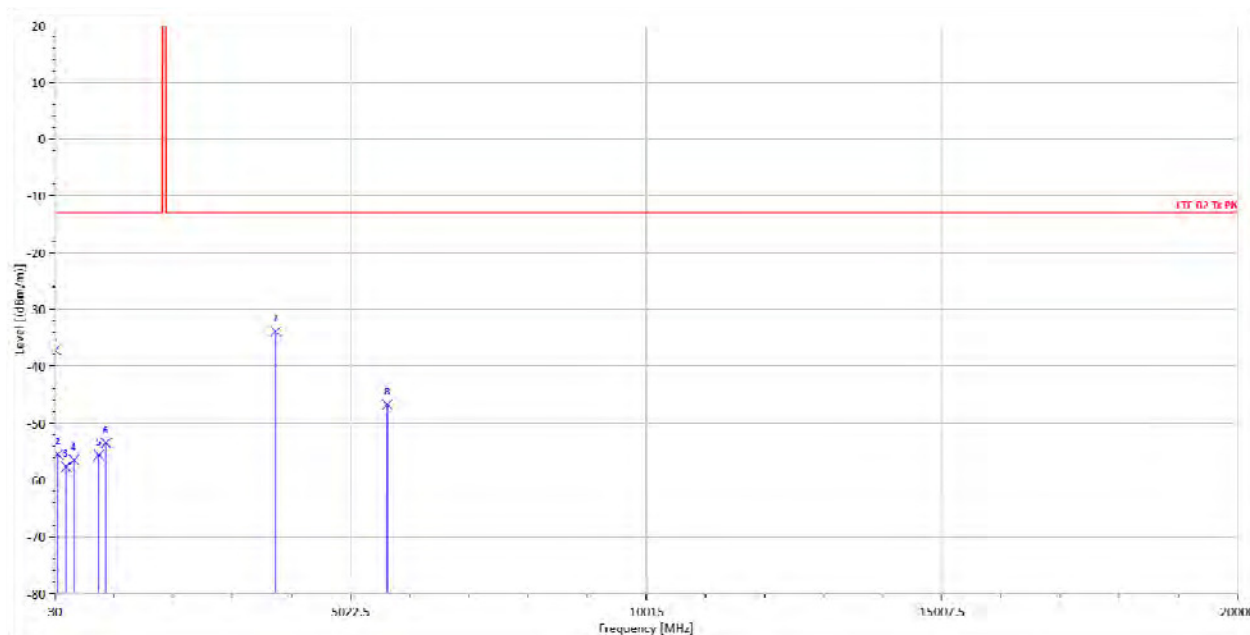
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Operation Mode :	LTE_B2_BW_10M_16QAM_RB_1_0	Test Date :	2016/7/18
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-37.18	-21.21	-15.24	-0.73	-13	-24.18
78.50	S	-55.50	-55.11	0.63	-1.03	-13	-42.50
218.18	S	-57.71	-62.46	6.47	-1.71	-13	-44.71
353.01	S	-56.52	-60.12	5.88	-2.28	-13	-43.52
772.05	S	-55.60	-59.90	7.64	-3.33	-13	-42.60
890.39	S	-53.47	-57.90	7.76	-3.33	-13	-40.47
3758.00	H	-33.89	-38.99	12.30	-7.20	-13	-20.89
5641.00	H	-46.73	-50.57	12.66	-8.81	-13	-33.73

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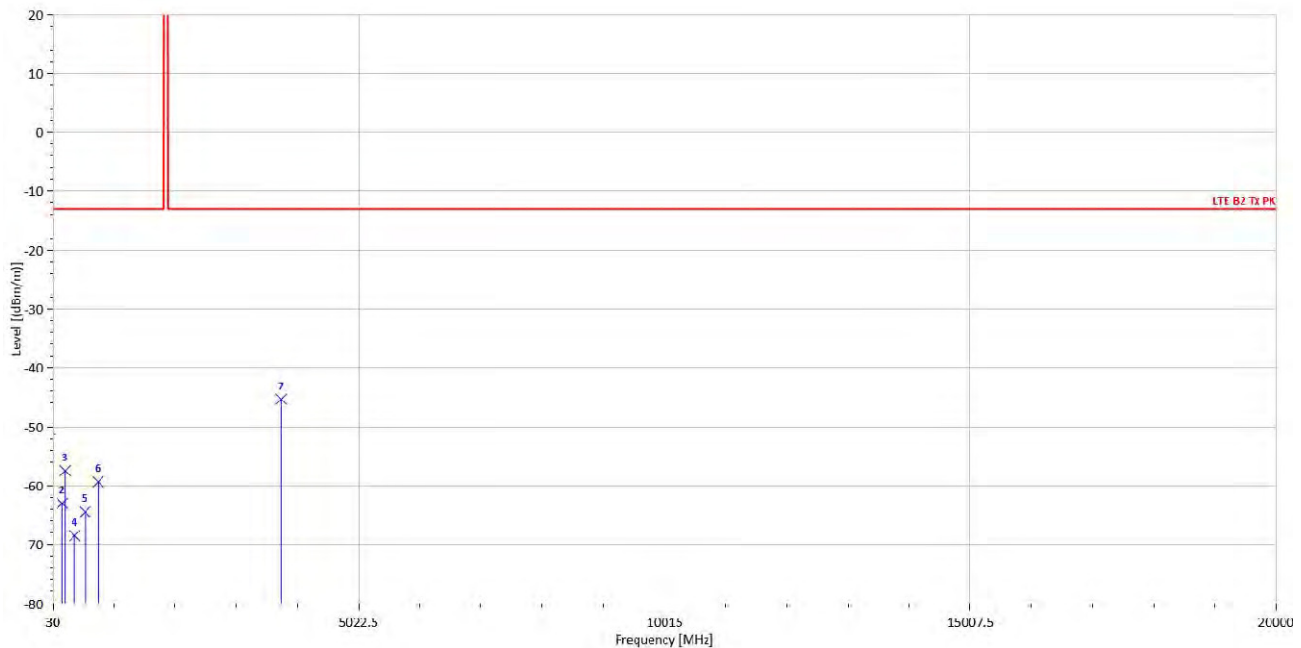
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Operation Mode : LTE_B2_BW_10M_16QAM_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.00	S	-53.11	-32.23	-20.25	-0.63	-13	-40.11
182.29	S	-62.98	-67.22	5.82	-1.58	-13	-49.98
229.82	S	-57.46	-61.91	6.25	-1.80	-13	-44.46
385.02	S	-68.48	-71.99	5.79	-2.29	-13	-55.48
556.71	S	-64.45	-68.34	6.48	-2.58	-13	-51.45
771.08	S	-59.34	-63.59	7.64	-3.38	-13	-46.34
3758.00	H	-45.32	-50.42	12.30	-7.20	-13	-32.32

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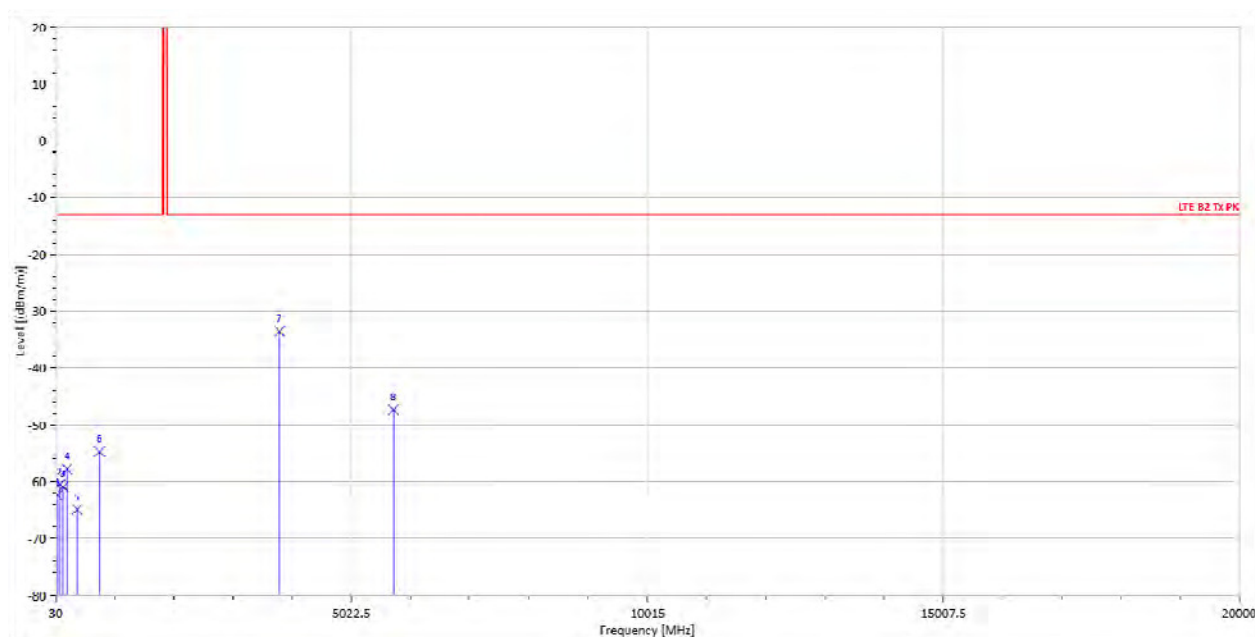
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Operation Mode : LTE_B2_BW_10M_16QAM_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 1905 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
60.07	S	-62.39	-60.59	-0.92	-0.89	-13	-49.39
102.75	S	-60.50	-58.32	-0.99	-1.19	-13	-47.50
156.10	S	-60.93	-62.64	3.18	-1.47	-13	-47.93
222.06	S	-57.80	-62.54	6.49	-1.75	-13	-44.80
392.78	S	-64.92	-68.50	5.77	-2.19	-13	-51.92
772.05	S	-54.73	-59.04	7.64	-3.33	-13	-41.73
3807.00	H	-33.58	-38.67	12.30	-7.21	-13	-20.58
5732.00	H	-47.37	-51.16	12.69	-8.90	-13	-34.37

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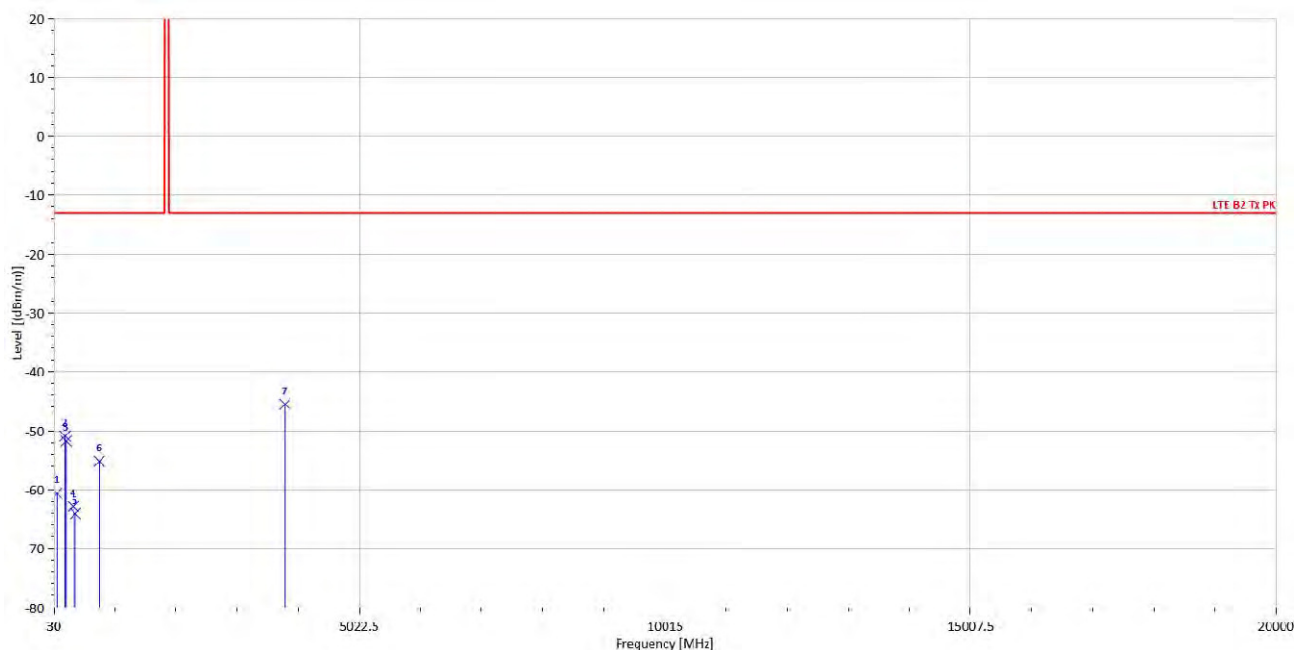
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Operation Mode : LTE_B2_BW_10M_16QAM_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 1905 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
79.47	S	-60.59	-60.19	0.66	-1.06	-13	-47.59
214.30	S	-50.89	-55.45	6.27	-1.71	-13	-37.89
231.76	S	-51.74	-56.09	6.15	-1.80	-13	-38.74
349.13	S	-62.84	-66.65	5.89	-2.08	-13	-49.84
380.17	S	-64.07	-67.61	5.81	-2.27	-13	-51.07
773.02	S	-55.17	-59.70	7.64	-3.11	-13	-42.17
3807.00	H	-45.50	-50.59	12.30	-7.21	-13	-32.50

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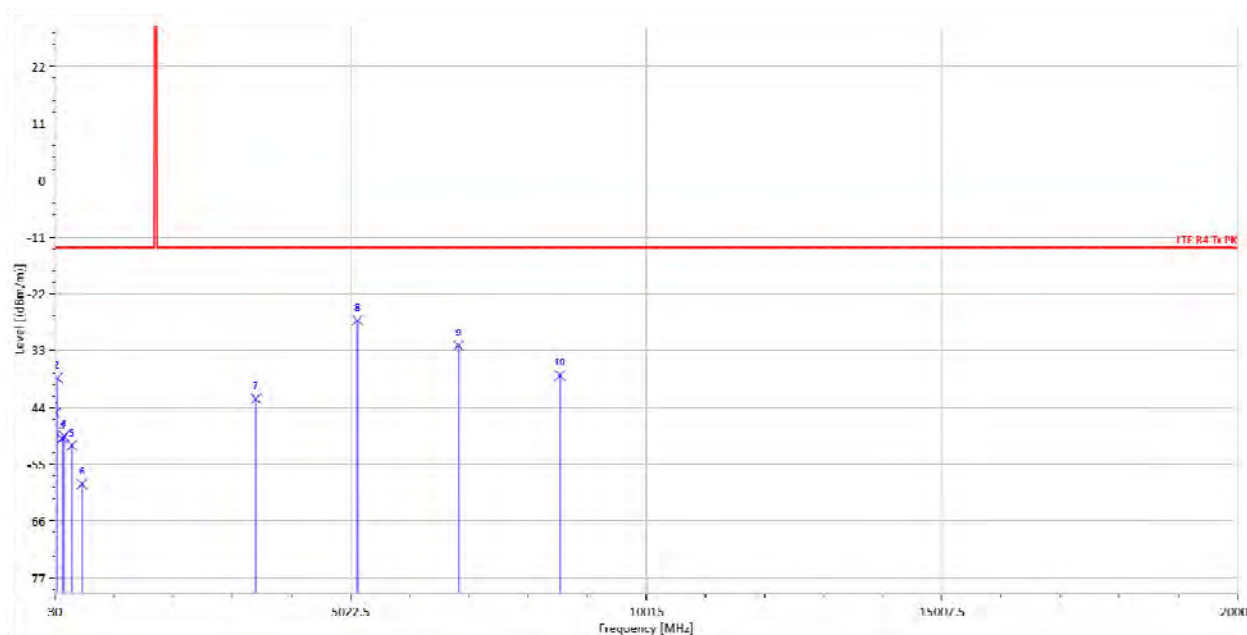
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTE_B4_20M_QPSK_RB_1_0	Test Date :	2016/7/19
Fundamental Frequency :	1720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-45.01	-29.84	-14.46	-0.71	-13.01	-32.00
69.77	S	-38.27	-37.67	0.38	-0.98	-13.01	-25.26
152.22	S	-50.05	-51.46	2.77	-1.36	-13.01	-37.04
183.26	S	-49.53	-53.79	5.87	-1.60	-13.01	-36.52
313.24	S	-51.32	-55.14	5.94	-2.12	-13.01	-38.31
486.87	S	-58.81	-62.61	6.36	-2.55	-13.01	-45.80
3422.00	H	-42.29	-47.51	12.14	-6.93	-13	-29.29
5137.00	H	-27.10	-31.07	12.38	-8.41	-13	-14.10
6845.00	H	-31.98	-33.68	11.46	-9.75	-13	-18.98
8560.00	H	-37.76	-38.48	11.64	-10.92	-13	-24.76

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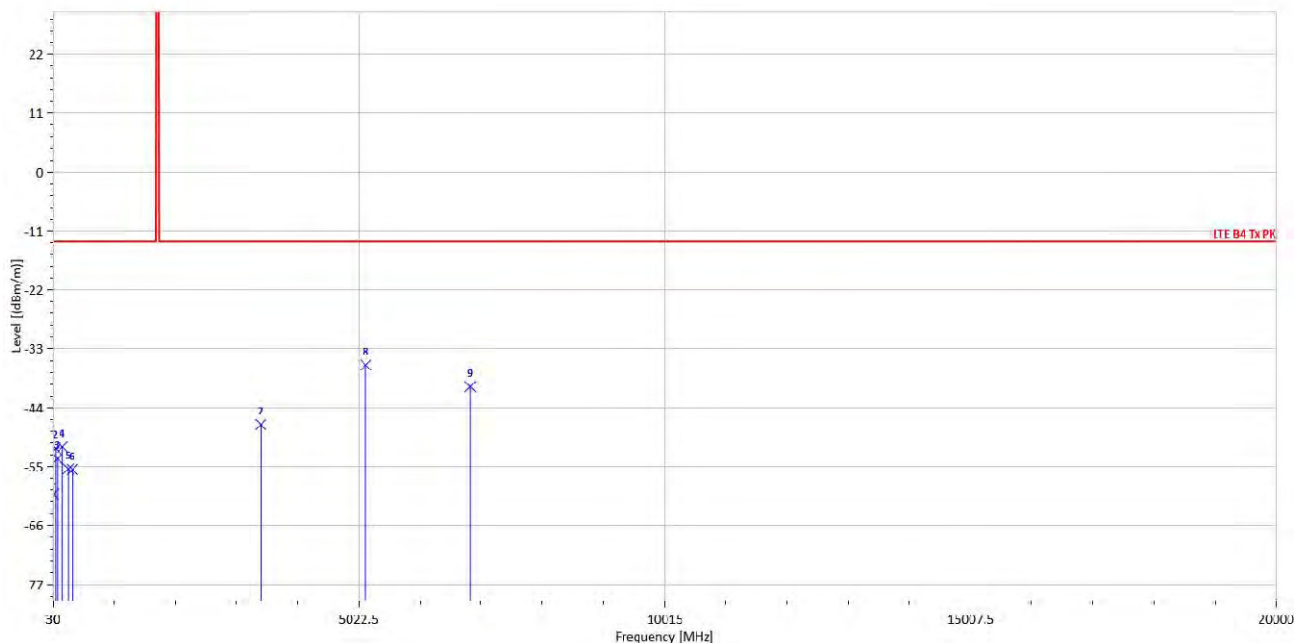
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Operation Mode : LTE_B4_20M_QPSK_RB_1_0 Test Date : 2016/7/19
Fundamental Frequency : 1720 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-60.15	-43.40	-16.04	-0.71	-13.01	-47.14
71.71	S	-51.60	-51.02	0.46	-1.03	-13.01	-38.59
101.78	S	-53.50	-51.36	-0.96	-1.18	-13.01	-40.49
185.20	S	-51.33	-55.65	5.96	-1.64	-13.01	-38.32
281.23	S	-55.42	-59.22	5.77	-1.96	-13.01	-42.41
348.16	S	-55.53	-59.27	5.89	-2.15	-13.01	-42.52
3422.00	H	-47.14	-52.36	12.14	-6.93	-13	-34.14
5137.00	H	-36.04	-40.01	12.38	-8.41	-13	-23.04
6845.00	H	-40.05	-41.76	11.46	-9.75	-13	-27.05

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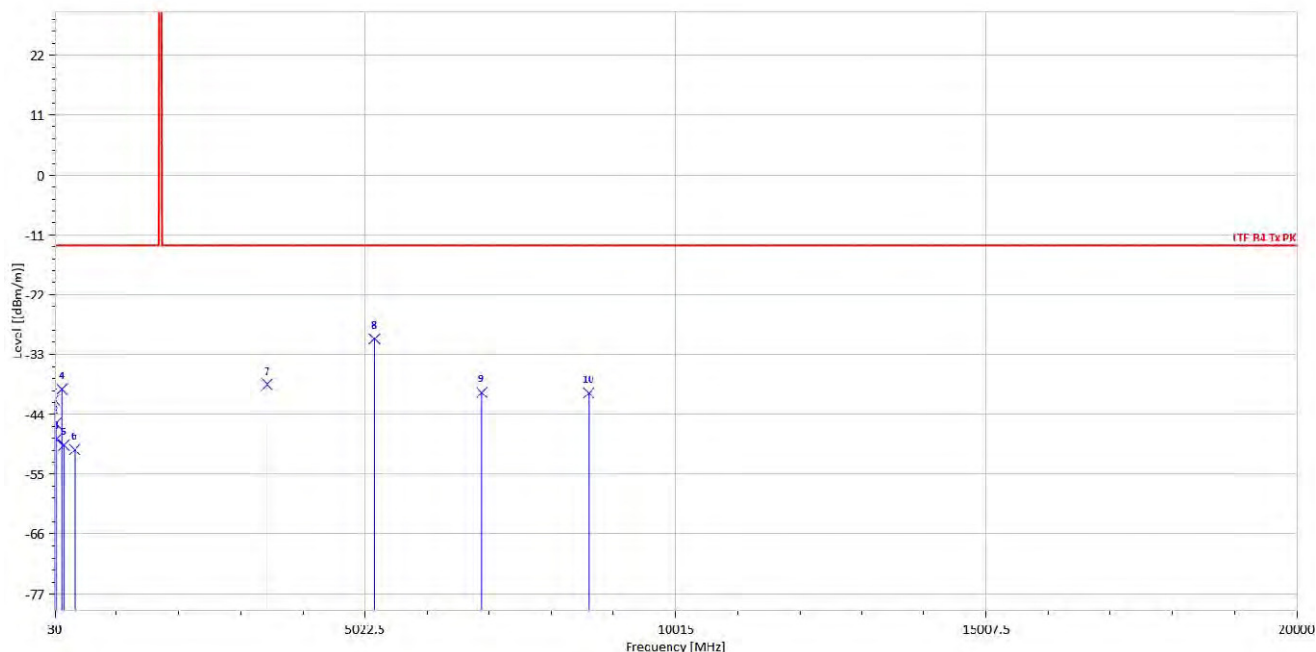
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Operation Mode :	LTE_B4_20M_QPSK_RB_1_0	Test Date :	2016/7/19
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.97	S	-41.33	-21.28	-19.41	-0.65	-13.01	-28.32
57.16	S	-45.67	-42.73	-2.06	-0.87	-13.01	-32.66
67.83	S	-48.55	-47.74	0.12	-0.93	-13.01	-35.54
151.25	S	-39.34	-40.70	2.66	-1.31	-13.01	-26.33
182.29	S	-49.62	-53.86	5.82	-1.58	-13.01	-36.61
353.01	S	-50.48	-54.09	5.88	-2.28	-13.01	-37.47
3450.00	H	-38.49	-43.75	12.20	-6.95	-13	-25.49
5172.00	H	-30.11	-34.07	12.40	-8.44	-13	-17.11
6901.00	H	-39.96	-41.57	11.40	-9.79	-13	-26.96
8620.00	H	-40.06	-40.95	11.67	-10.79	-13	-27.06

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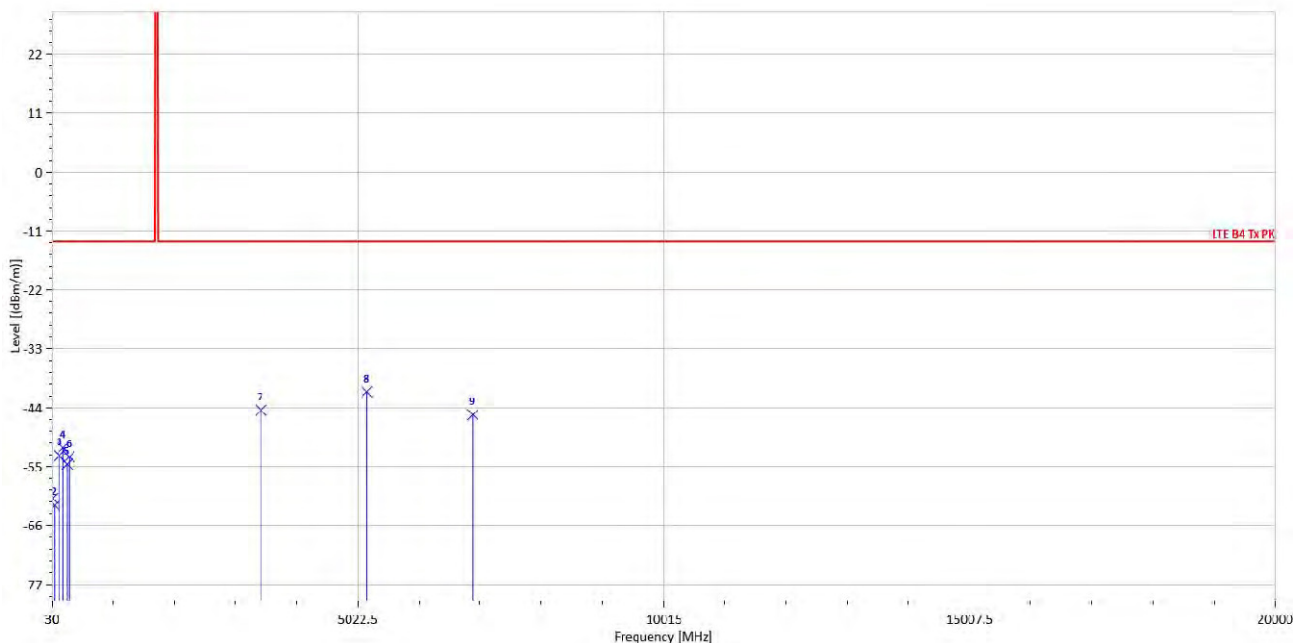
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Operation Mode :	LTE_B4_20M_QPSK_RB_1_0	Test Date :	2016/7/19
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-60.92	-45.75	-14.46	-0.71	-13.01	-47.91
70.74	S	-62.21	-61.61	0.43	-1.03	-13.01	-49.20
148.34	S	-52.93	-53.82	2.30	-1.41	-13.01	-39.92
211.39	S	-51.47	-55.89	6.12	-1.71	-13.01	-38.46
279.29	S	-54.54	-58.31	5.73	-1.96	-13.01	-41.53
312.27	S	-53.15	-56.98	5.94	-2.11	-13.01	-40.14
3443.00	H	-44.48	-49.72	12.19	-6.95	-13	-31.48
5172.00	H	-41.03	-45.00	12.40	-8.44	-13	-28.03
6901.00	H	-45.31	-46.91	11.40	-9.79	-13	-32.31

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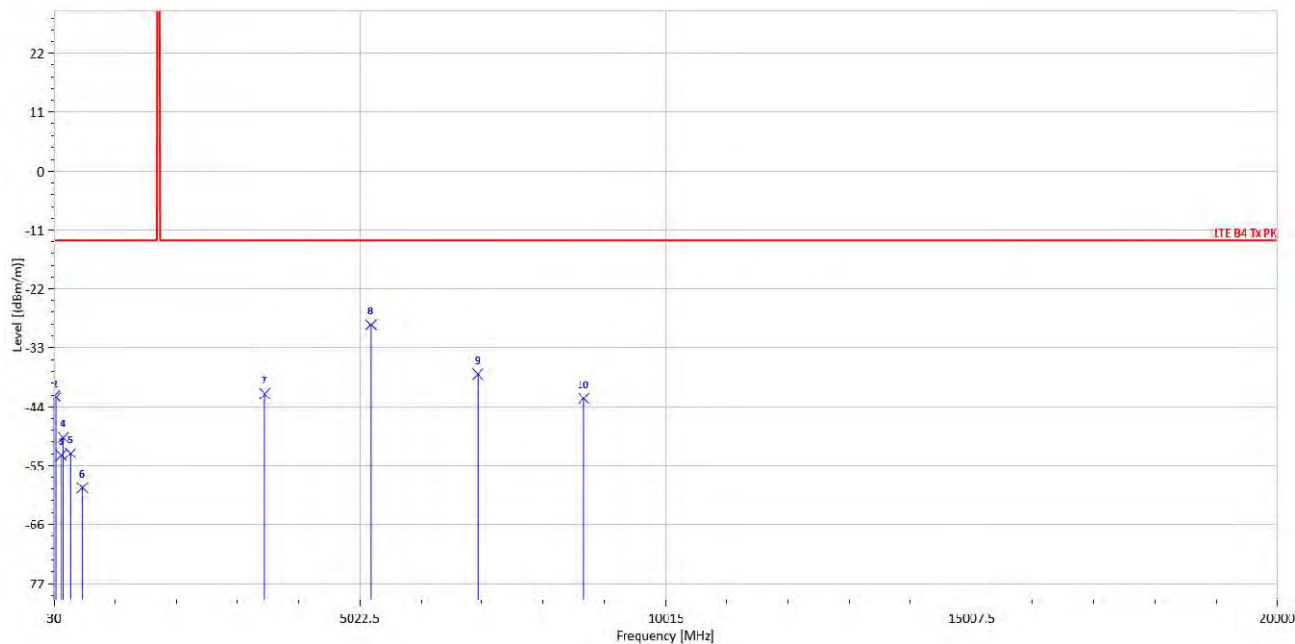
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f (886-2) 2298-0488

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Operation Mode : LTE_B4_20M_QPSK_RB_1_0 Test Date : 2016/7/19
Fundamental Frequency : 1745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.97	S	-41.98	-21.92	-19.41	-0.65	-13.01	-28.97
58.13	S	-42.22	-39.66	-1.67	-0.88	-13.01	-29.21
148.34	S	-53.07	-53.96	2.30	-1.41	-13.01	-40.06
183.26	S	-49.75	-54.01	5.87	-1.60	-13.01	-36.74
300.63	S	-52.69	-56.66	5.95	-1.98	-13.01	-39.68
494.63	S	-59.12	-63.01	6.38	-2.49	-13.01	-46.11
3471.00	H	-41.60	-46.99	12.24	-6.85	-13	-28.60
5207.00	H	-28.70	-32.61	12.42	-8.51	-13	-15.70
6950.00	H	-37.95	-39.57	11.35	-9.72	-13	-24.95
8680.00	H	-42.44	-43.11	11.71	-11.04	-13	-29.44

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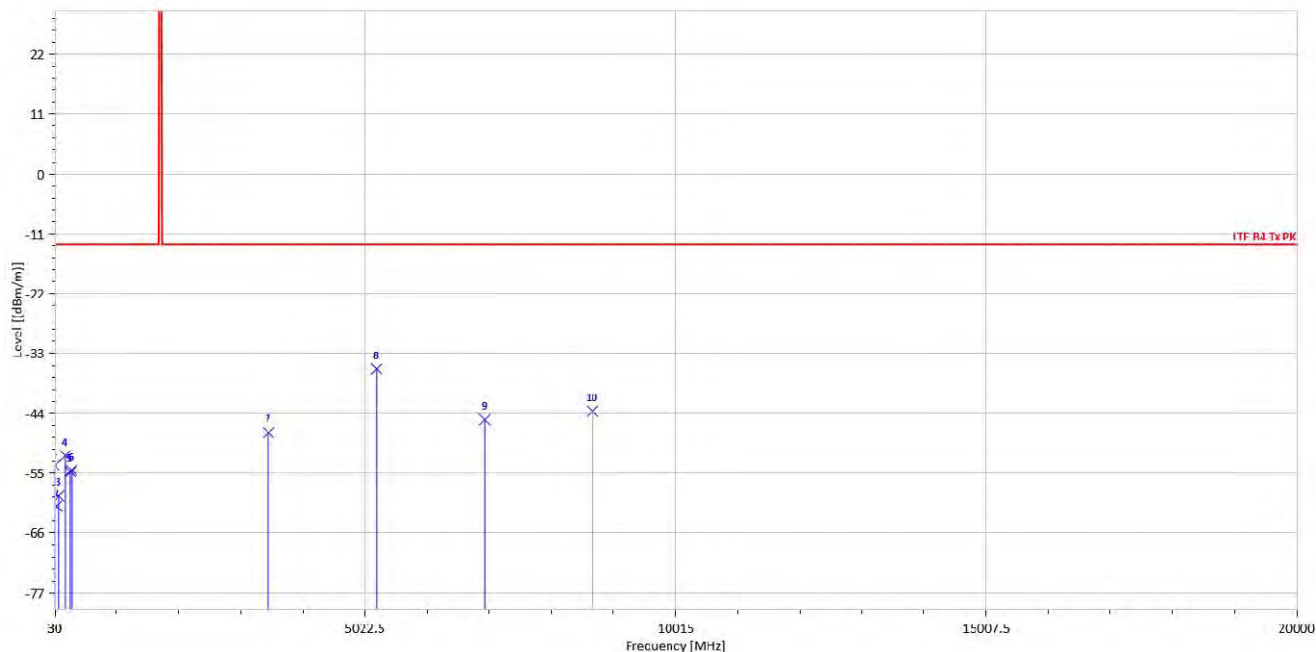
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Operation Mode : LTE_B4_20M_QPSK_RB_1_0 Test Date : 2016/7/19
Fundamental Frequency : 1745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-53.58	-36.02	-16.88	-0.68	-13.01	-40.57
66.86	S	-61.05	-60.10	-0.01	-0.95	-13.01	-48.04
100.81	S	-59.18	-57.09	-0.92	-1.17	-13.01	-46.17
204.60	S	-51.79	-56.05	5.93	-1.67	-13.01	-38.78
277.35	S	-54.68	-58.37	5.67	-1.98	-13.01	-41.67
307.42	S	-54.51	-58.38	5.94	-2.08	-13.01	-41.50
3471.00	H	-47.55	-52.93	12.24	-6.85	-13	-34.55
5207.00	H	-35.79	-39.71	12.42	-8.51	-13	-22.79
6950.00	H	-45.18	-46.80	11.35	-9.72	-13	-32.18
8680.00	H	-43.62	-44.28	11.71	-11.04	-13	-30.62

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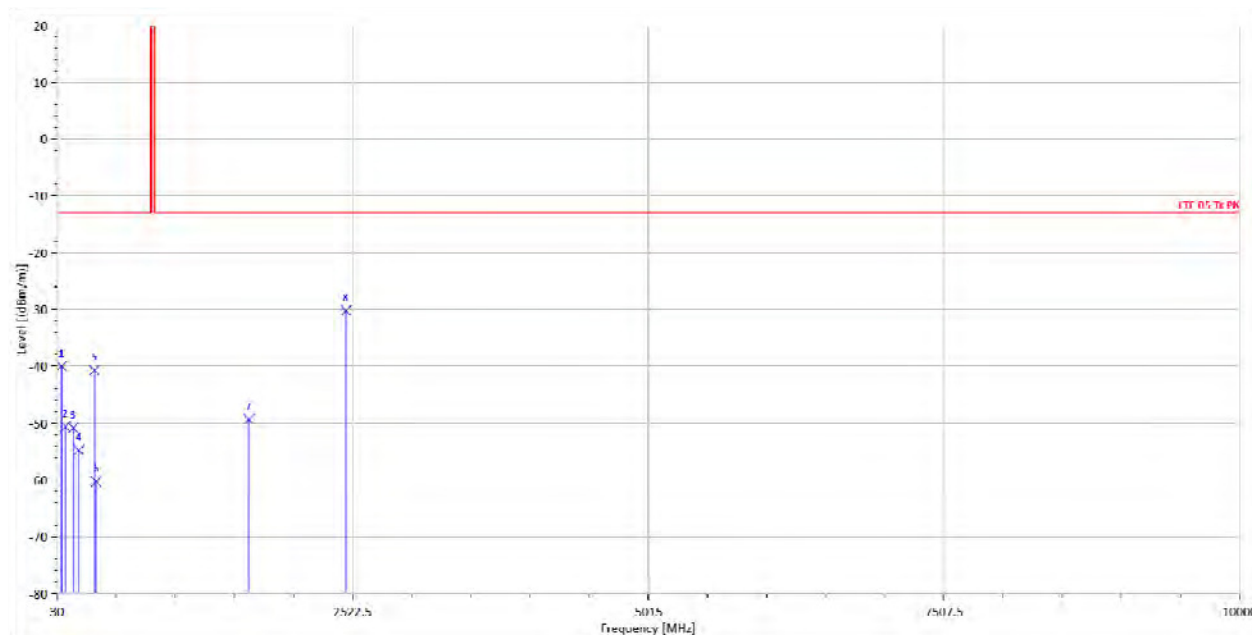
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTE_B5_BW_1.4M_QPSK_RB_1_0	Test Date :	2016/7/18
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
68.80	S	-39.99	-37.15	-1.90	-0.94	-13	-26.99
101.78	S	-50.63	-46.35	-3.11	-1.18	-13	-37.63
167.74	S	-50.87	-51.67	2.31	-1.51	-13	-37.87
214.30	S	-54.76	-57.17	4.12	-1.71	-13	-41.76
346.22	S	-40.72	-42.31	3.75	-2.16	-13	-27.72
360.77	S	-60.27	-61.79	3.71	-2.19	-13	-47.27
1648.00	H	-49.38	-51.41	6.75	-4.72	-13	-36.38
2467.00	H	-30.23	-32.62	8.23	-5.84	-13	-17.23

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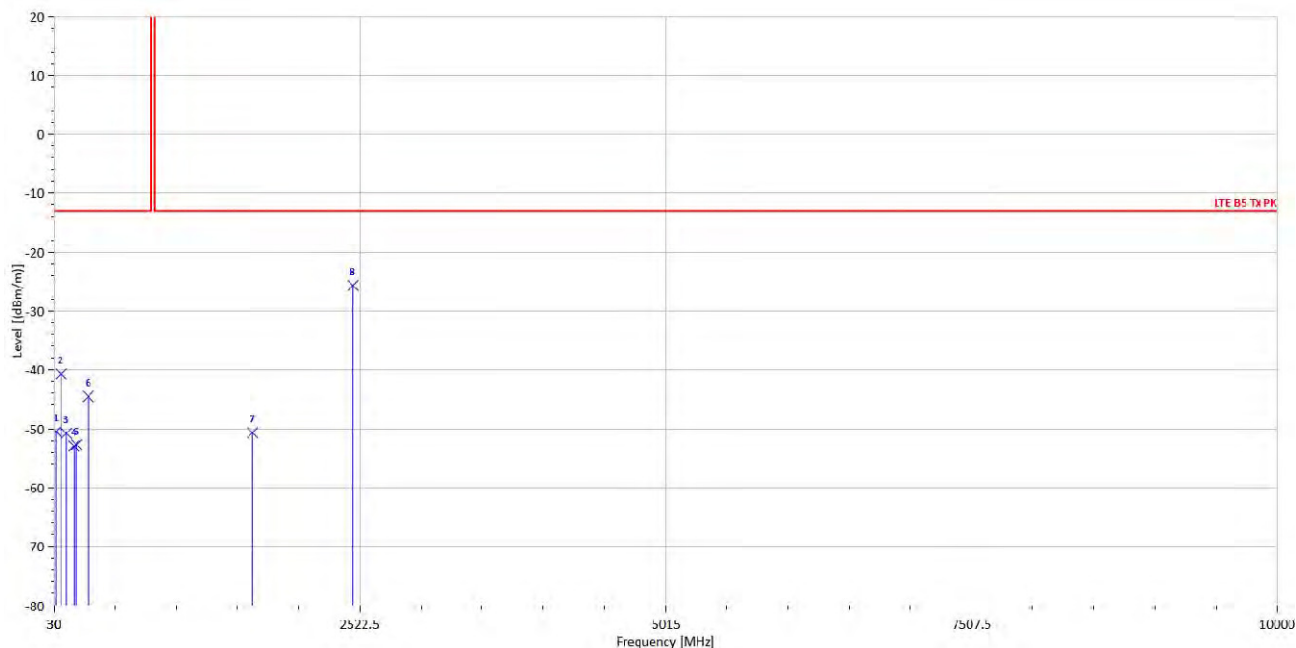
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Operation Mode : LTE_B5_BW_1.4M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 824.7 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
45.52	S	-50.46	-39.81	-9.85	-0.80	-13	-37.46
88.20	S	-40.69	-37.56	-2.03	-1.10	-13	-27.69
130.88	S	-50.77	-47.30	-2.15	-1.32	-13	-37.77
192.96	S	-52.92	-55.20	3.93	-1.64	-13	-39.92
214.30	S	-52.72	-55.14	4.12	-1.71	-13	-39.72
309.36	S	-44.51	-46.32	3.79	-1.98	-13	-31.51
1648.00	H	-50.66	-52.70	6.75	-4.72	-13	-37.66
2467.00	H	-25.67	-28.07	8.23	-5.84	-13	-12.67

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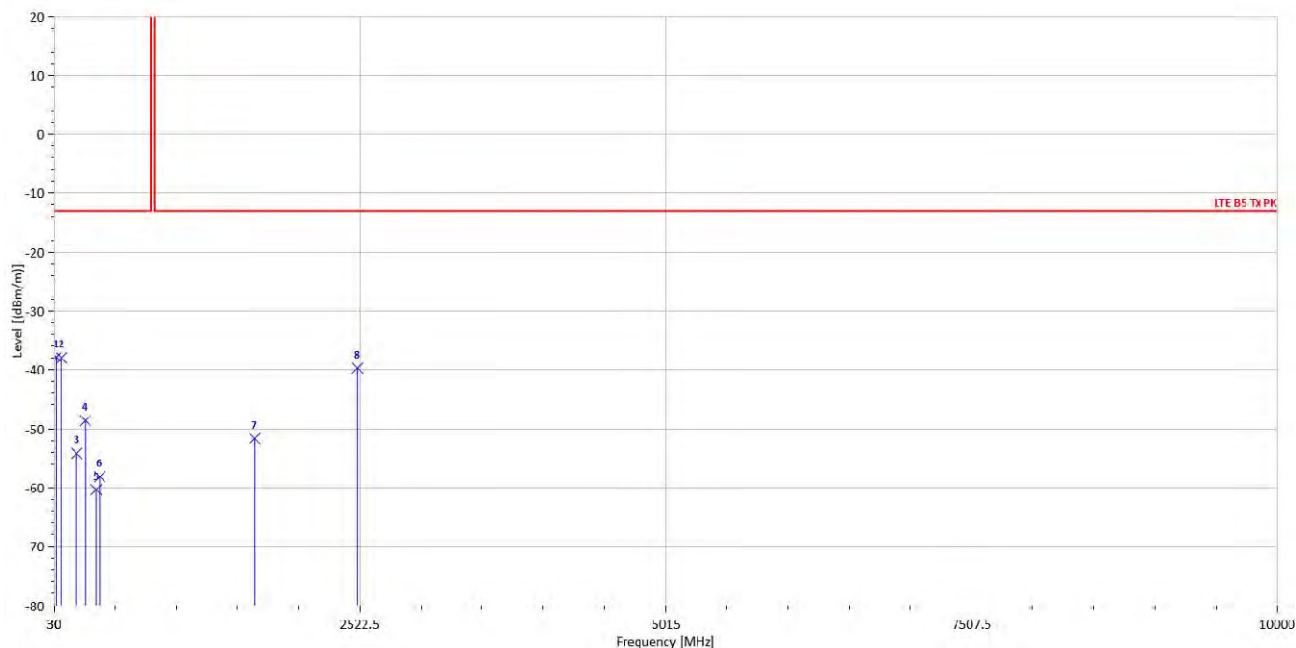
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Operation Mode : LTE_B5_BW_1.4M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
47.46	S	-37.82	-28.40	-8.64	-0.77	-13	-24.82
91.11	S	-37.96	-34.59	-2.25	-1.12	-13	-24.96
214.30	S	-54.19	-56.60	4.12	-1.71	-13	-41.19
285.11	S	-48.61	-50.30	3.66	-1.96	-13	-35.61
375.32	S	-60.34	-61.71	3.67	-2.30	-13	-47.34
403.45	S	-58.12	-59.47	3.64	-2.29	-13	-45.12
1666.00	H	-51.66	-53.71	6.81	-4.76	-13	-38.66
2503.00	H	-39.68	-42.05	8.26	-5.89	-13	-26.68

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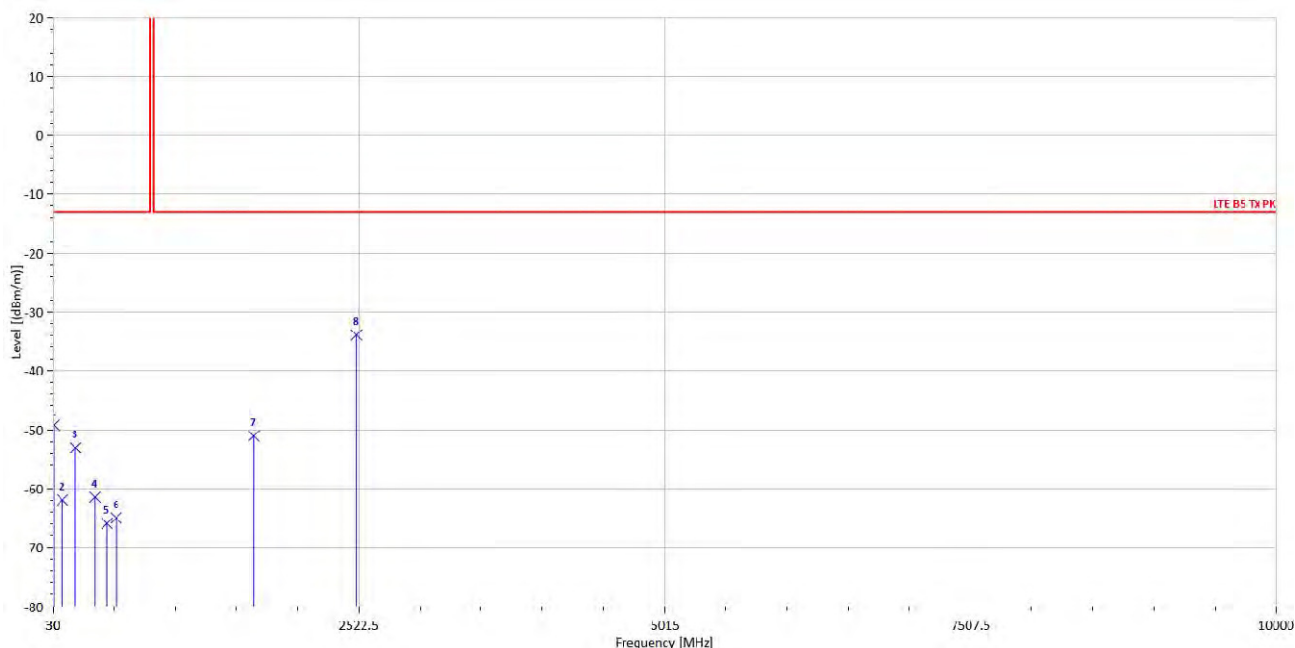
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Operation Mode : LTE_B5_BW_1.4M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-49.22	-31.90	-16.61	-0.71	-13	-36.22
106.63	S	-61.91	-57.41	-3.29	-1.21	-13	-48.91
213.33	S	-53.07	-55.43	4.07	-1.70	-13	-40.07
373.38	S	-61.44	-62.85	3.68	-2.26	-13	-48.44
470.38	S	-65.89	-67.52	4.17	-2.55	-13	-52.89
545.07	S	-64.98	-66.64	4.26	-2.61	-13	-51.98
1666.00	H	-51.03	-53.09	6.81	-4.76	-13	-38.03
2503.00	H	-33.87	-36.24	8.26	-5.89	-13	-20.87

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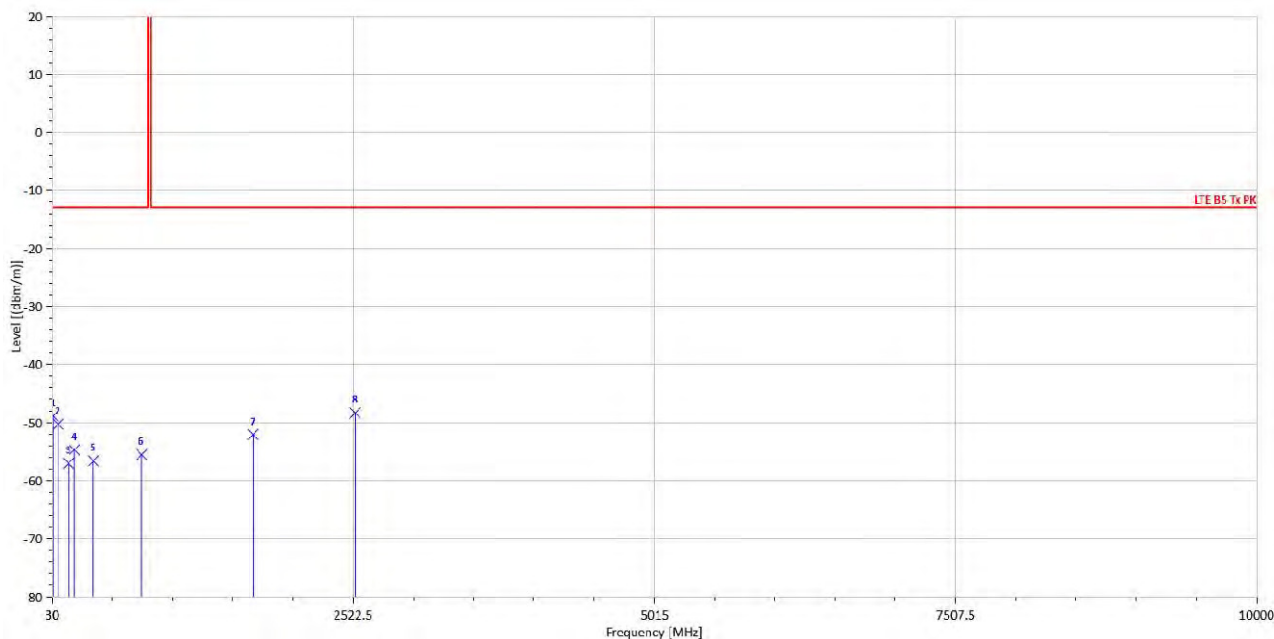
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Operation Mode : LTE_B5_BW_1.4M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 848.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.88	-32.36	-15.82	-0.70	-13	-35.88
80.44	S	-50.31	-47.72	-1.51	-1.08	-13	-37.31
166.77	S	-57.04	-57.68	2.21	-1.56	-13	-44.04
214.30	S	-54.71	-57.12	4.12	-1.71	-13	-41.71
372.41	S	-56.61	-58.05	3.68	-2.24	-13	-43.61
772.05	S	-55.55	-57.71	5.49	-3.33	-13	-42.55
1693.00	H	-52.07	-54.18	6.91	-4.80	-13	-39.07
2539.00	H	-48.35	-50.77	8.32	-5.90	-13	-35.35

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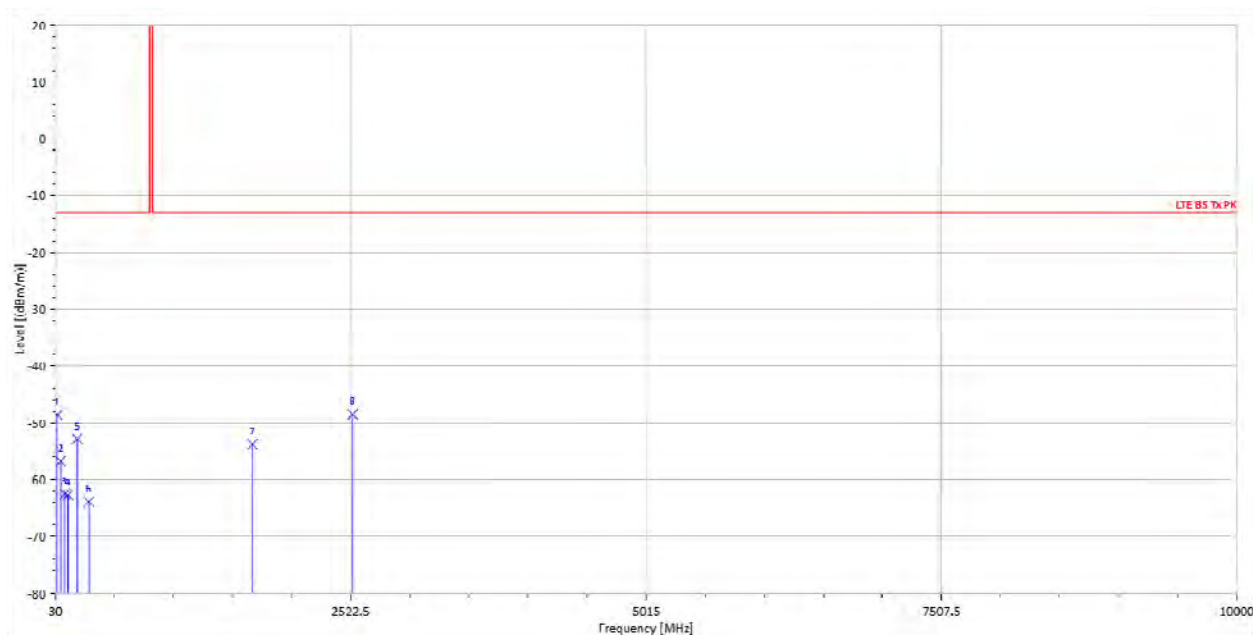
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Operation Mode : LTE_B5_BW_1.4M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 848.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
46.49	S	-48.62	-38.61	-9.25	-0.77	-13	-35.62
74.62	S	-56.78	-54.15	-1.62	-1.01	-13	-43.78
109.54	S	-62.54	-57.91	-3.40	-1.24	-13	-49.54
136.70	S	-62.68	-59.79	-1.43	-1.46	-13	-49.68
214.30	S	-52.86	-55.28	4.12	-1.71	-13	-39.86
312.27	S	-63.89	-65.57	3.79	-2.11	-13	-50.89
1693.00	H	-53.76	-55.87	6.91	-4.80	-13	-40.76
2539.00	H	-48.50	-50.92	8.32	-5.90	-13	-35.50

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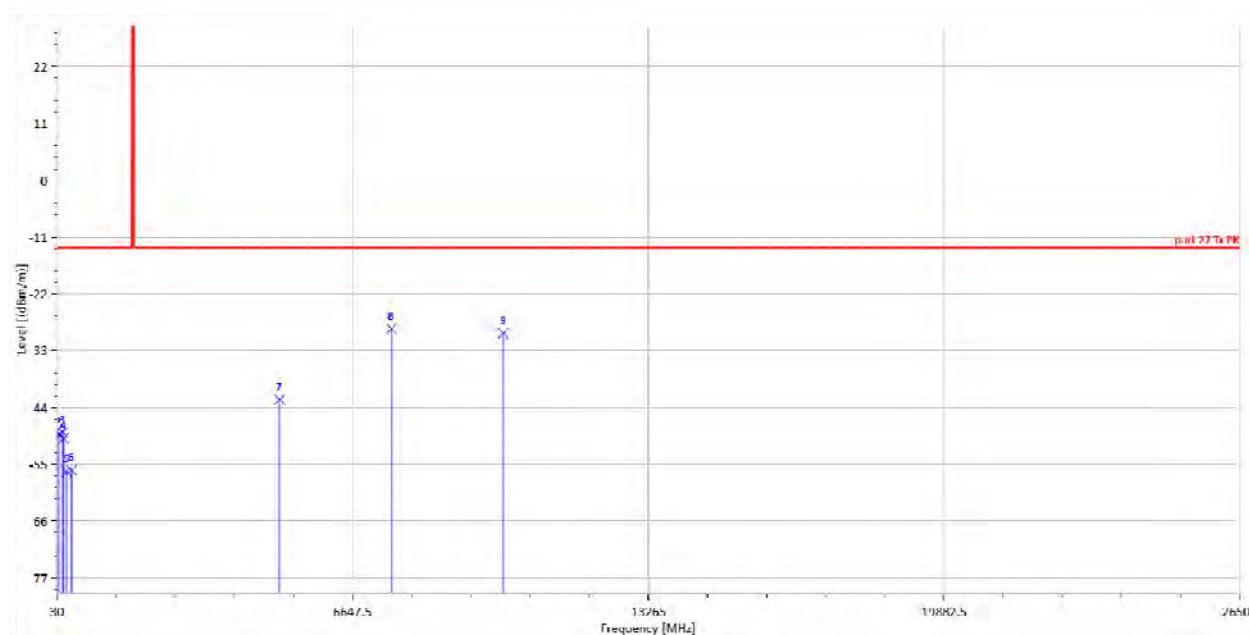
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode :	LTE_B7_5M_QPSK_RB_1_24	Test Date :	2016/8/10
Fundamental Frequency :	2502.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-48.49	-29.26	-18.56	-0.67	-25	-23.49
72.68	S	-49.19	-48.66	0.48	-1.01	-25	-24.19
152.22	S	-48.76	-50.17	2.77	-1.36	-25	-23.76
180.35	S	-49.95	-54.10	5.73	-1.58	-25	-24.95
247.28	S	-56.37	-59.91	5.39	-1.85	-25	-31.37
358.83	S	-56.10	-59.87	5.87	-2.10	-25	-31.10
5011.00	H	-42.45	-46.47	12.31	-8.29	-25	-17.45
7517.00	H	-28.72	-29.21	10.70	-10.20	-25	-3.72
10020.00	H	-29.57	-29.53	11.57	-11.61	-25	-4.57

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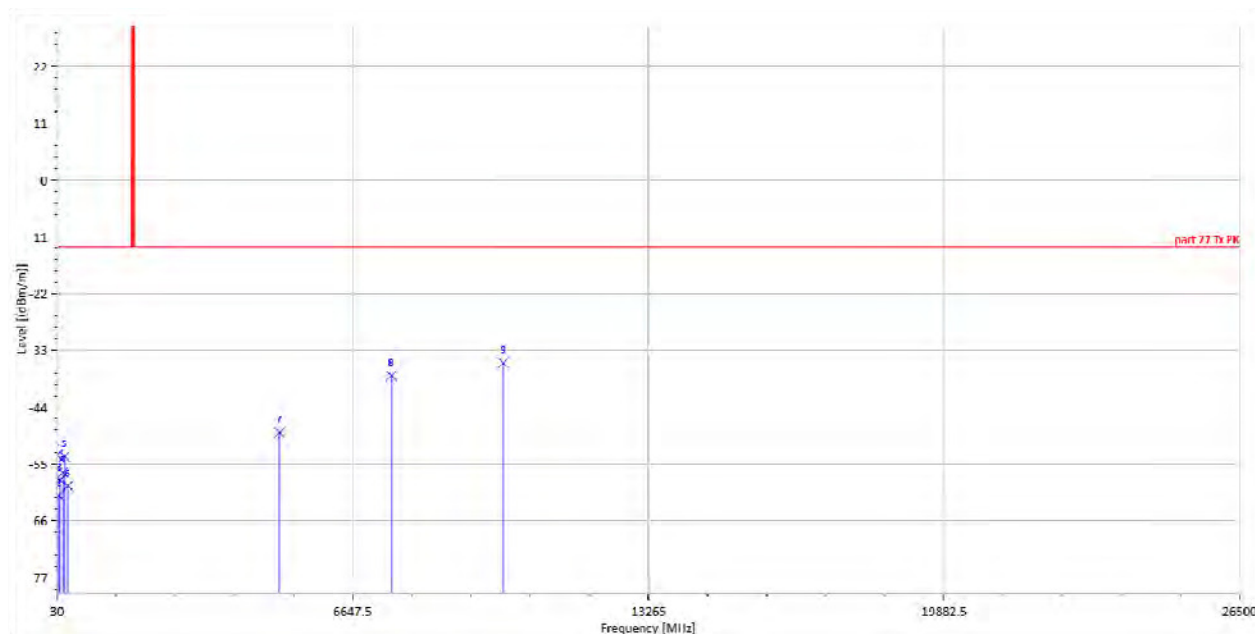
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Member of SGS Group

Operation Mode : LTE_B7_5M_QPSK_RB_1_24
Fundamental Frequency : 2502.5 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-53.25	-36.51	-16.04	-0.71	-25	-28.25
70.74	S	-61.06	-60.45	0.43	-1.03	-25	-36.06
105.66	S	-58.10	-55.80	-1.10	-1.20	-25	-33.10
161.92	S	-56.64	-58.95	3.81	-1.49	-25	-31.64
201.69	S	-53.49	-57.70	5.87	-1.66	-25	-28.49
276.38	S	-59.21	-62.90	5.64	-1.95	-25	-34.21
5011.00	H	-48.91	-52.92	12.31	-8.29	-25	-23.91
7517.00	H	-37.85	-38.35	10.70	-10.20	-25	-12.85
10020.00	H	-35.40	-35.36	11.57	-11.61	-25	-10.40

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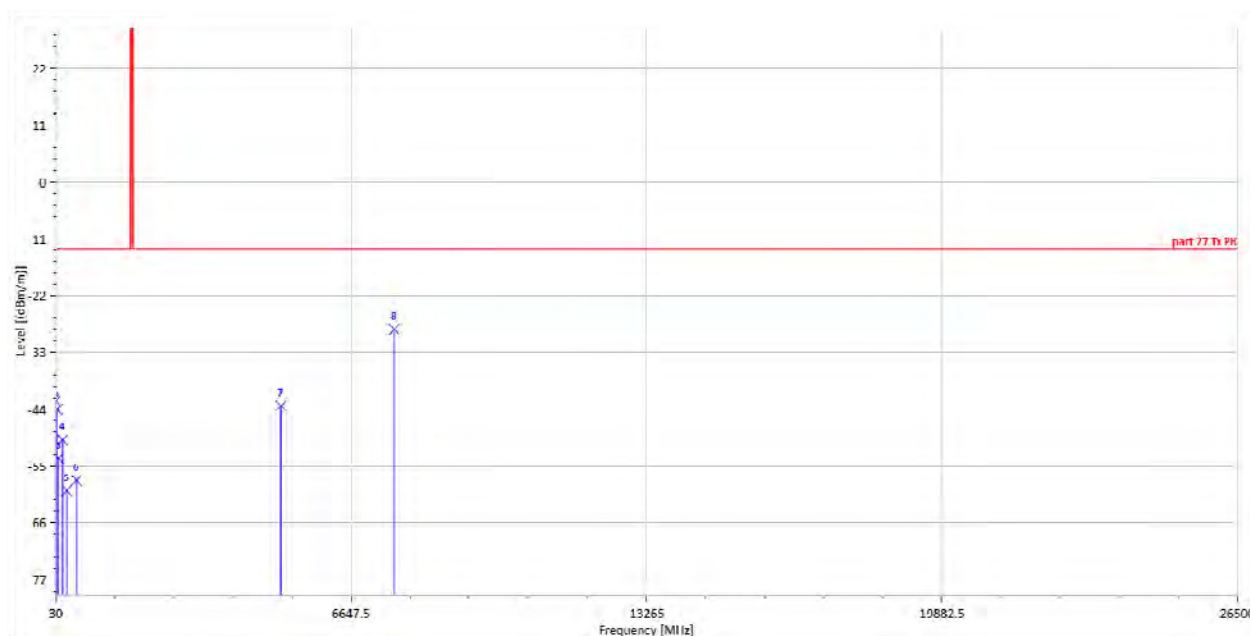
f (886-2) 2298-0488

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Operation Mode : LTE_B7_5M_QPSK_RB_1_24
Fundamental Frequency : 2535 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.97	S	-42.35	-22.30	-19.41	-0.65	-25	-17.35
62.01	S	-44.01	-42.35	-0.66	-1.00	-25	-19.01
93.05	S	-53.48	-52.07	-0.28	-1.14	-25	-28.48
182.29	S	-49.90	-54.14	5.82	-1.58	-25	-24.90
278.32	S	-59.76	-63.49	5.70	-1.98	-25	-34.76
495.60	S	-57.72	-61.56	6.38	-2.55	-25	-32.72
5074.00	H	-43.33	-47.27	12.34	-8.40	-25	-18.33
7615.00	H	-28.51	-28.96	10.68	-10.22	-25	-3.51

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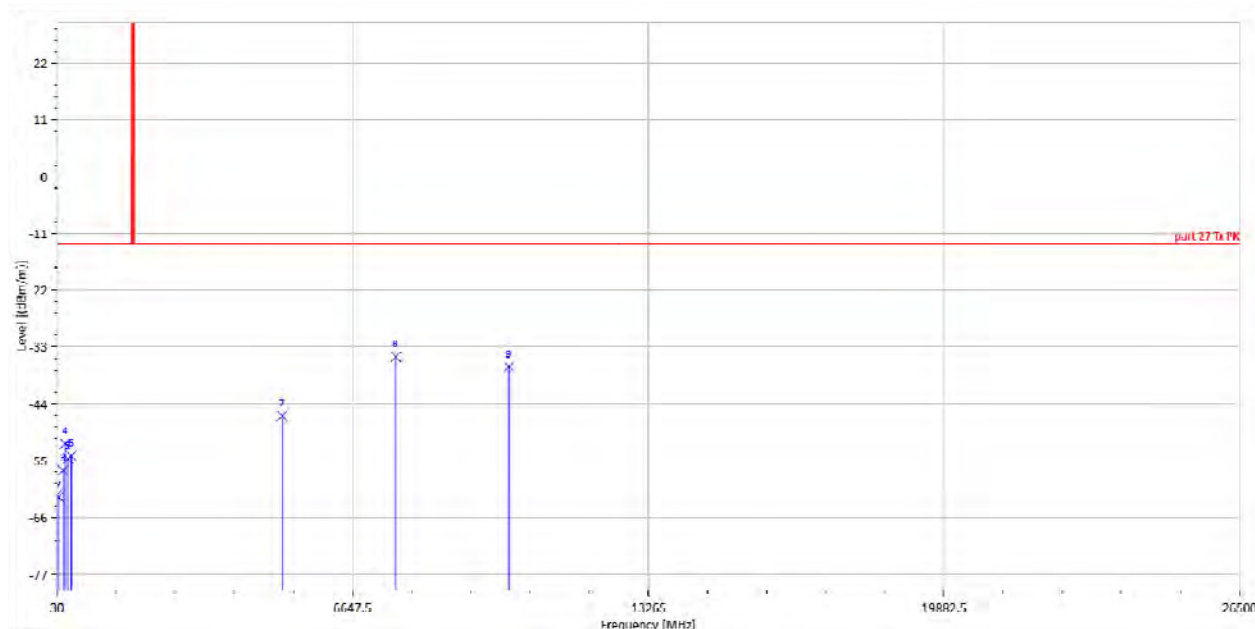
f (886-2) 2298-0488

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Operation Mode : LTE_B7_5M_QPSK_RB_1_24
Fundamental Frequency : 2535 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-61.61	-42.38	-18.56	-0.67	-25	-36.61
70.74	S	-62.09	-61.49	0.43	-1.03	-25	-37.09
169.68	S	-56.86	-60.15	4.68	-1.40	-25	-31.86
212.36	S	-51.68	-56.14	6.17	-1.71	-25	-26.68
276.38	S	-54.59	-58.28	5.64	-1.95	-25	-29.59
350.10	S	-54.09	-57.90	5.89	-2.08	-25	-29.09
5074.00	H	-46.35	-50.29	12.34	-8.40	-25	-21.35
7615.00	H	-34.86	-35.32	10.68	-10.22	-25	-9.86
10150.00	H	-36.79	-36.40	11.39	-11.79	-25	-11.79

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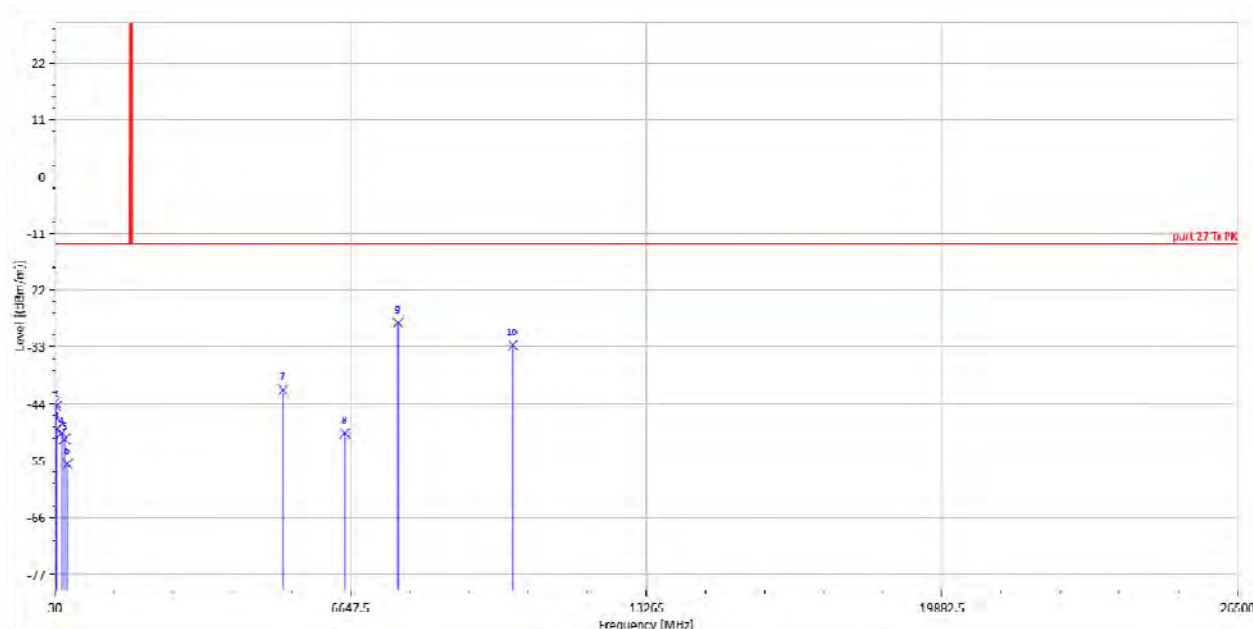
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Operation Mode : LTE_B7_5M_QPSK_RB_1_24
Fundamental Frequency : 2567.5 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-43.71	-26.14	-16.88	-0.68	-25	-18.71
60.07	S	-44.43	-42.63	-0.92	-0.89	-25	-19.43
72.68	S	-48.86	-48.34	0.48	-1.01	-25	-23.86
183.26	S	-49.67	-53.93	5.87	-1.60	-25	-24.67
247.28	S	-50.82	-54.36	5.39	-1.85	-25	-25.82
308.39	S	-55.59	-59.48	5.94	-2.05	-25	-30.59
5137.00	H	-41.34	-45.30	12.38	-8.41	-25	-16.34
6523.00	H	-49.66	-51.90	11.78	-9.54	-25	-24.66
7713.00	H	-28.31	-28.81	10.66	-10.16	-25	-3.31
10280.00	H	-32.61	-31.85	11.21	-11.97	-25	-7.61

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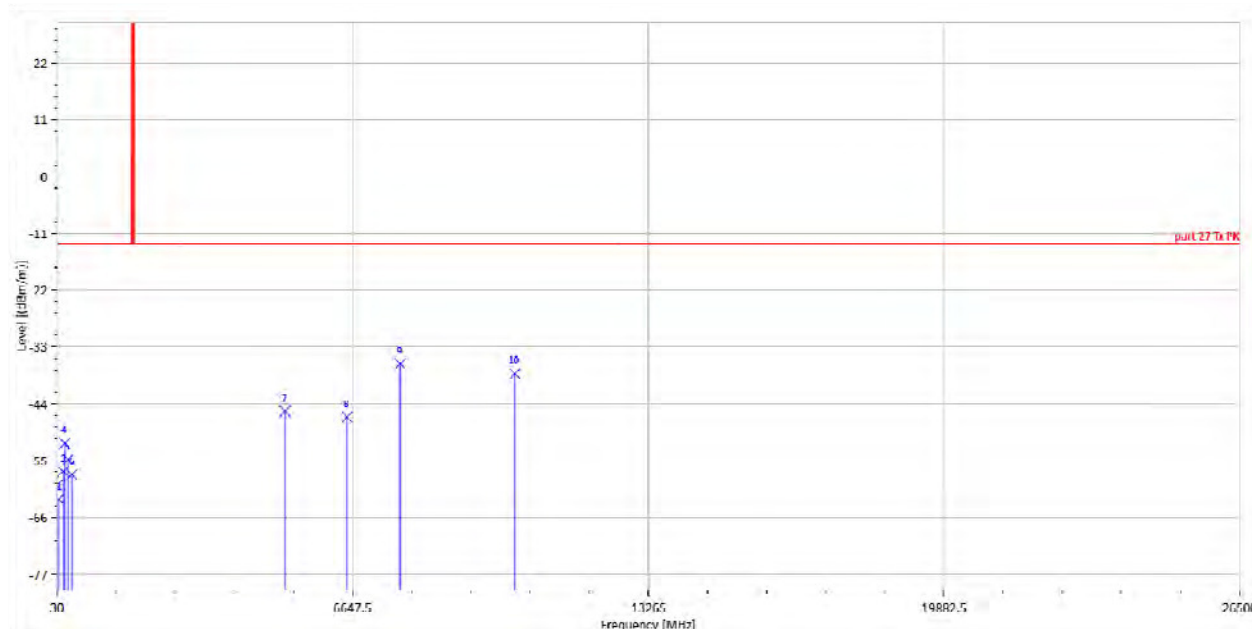
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Operation Mode : LTE_B7_5M_QPSK_RB_1_24
Fundamental Frequency : 2567.5 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-59.79	-43.04	-16.04	-0.71	-25	-34.79
71.71	S	-62.43	-61.85	0.46	-1.03	-25	-37.43
169.68	S	-57.04	-60.33	4.68	-1.40	-25	-32.04
204.60	S	-51.60	-55.86	5.93	-1.67	-25	-26.60
280.26	S	-54.74	-58.54	5.76	-1.96	-25	-29.74
365.62	S	-57.67	-61.23	5.85	-2.28	-25	-32.67
5137.00	H	-45.40	-49.37	12.38	-8.41	-25	-20.40
6523.00	H	-46.53	-48.77	11.78	-9.54	-25	-21.53
7713.00	H	-36.23	-36.73	10.66	-10.16	-25	-11.23
10280.00	H	-38.13	-37.37	11.21	-11.97	-25	-13.13

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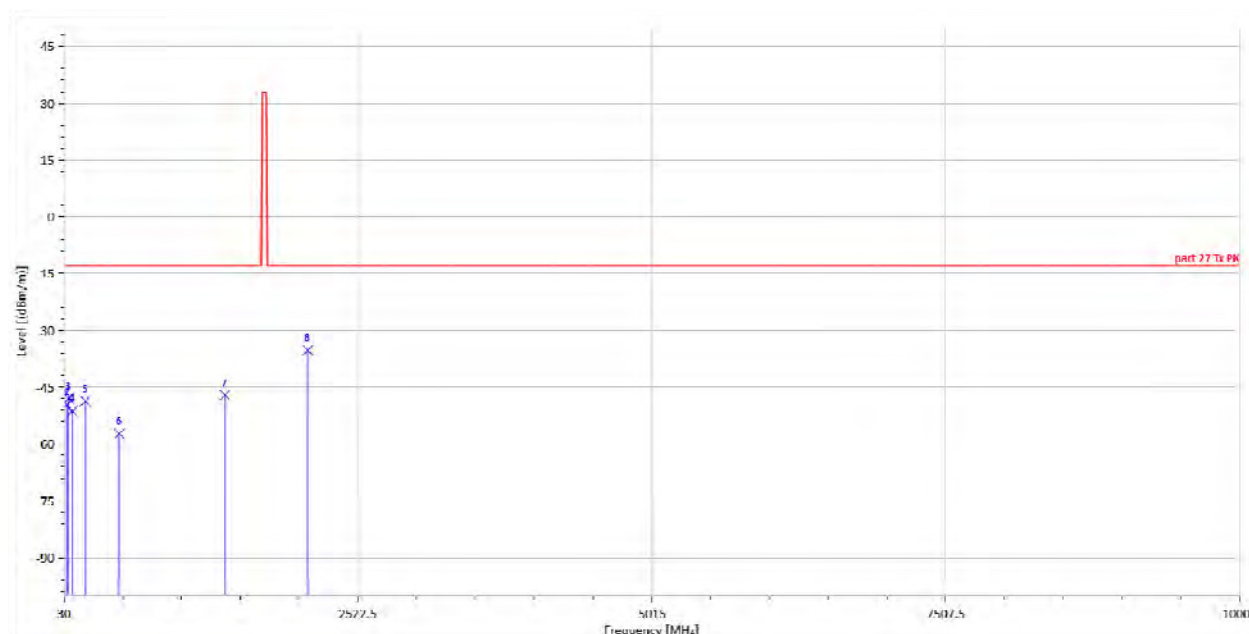
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-46.08	-27.18	-18.19	-0.71	-13	-33.08
55.22	S	-49.66	-43.83	-4.98	-0.85	-13	-36.66
69.77	S	-48.00	-45.24	-1.77	-0.98	-13	-35.00
99.84	S	-51.35	-47.15	-3.03	-1.17	-13	-38.35
211.39	S	-48.69	-50.96	3.97	-1.71	-13	-35.69
499.48	S	-57.28	-58.78	4.24	-2.74	-13	-44.28
1396.00	H	-47.07	-48.58	5.85	-4.35	-13.01	-34.06
2098.00	H	-35.28	-37.92	8.01	-5.37	-13.01	-22.27

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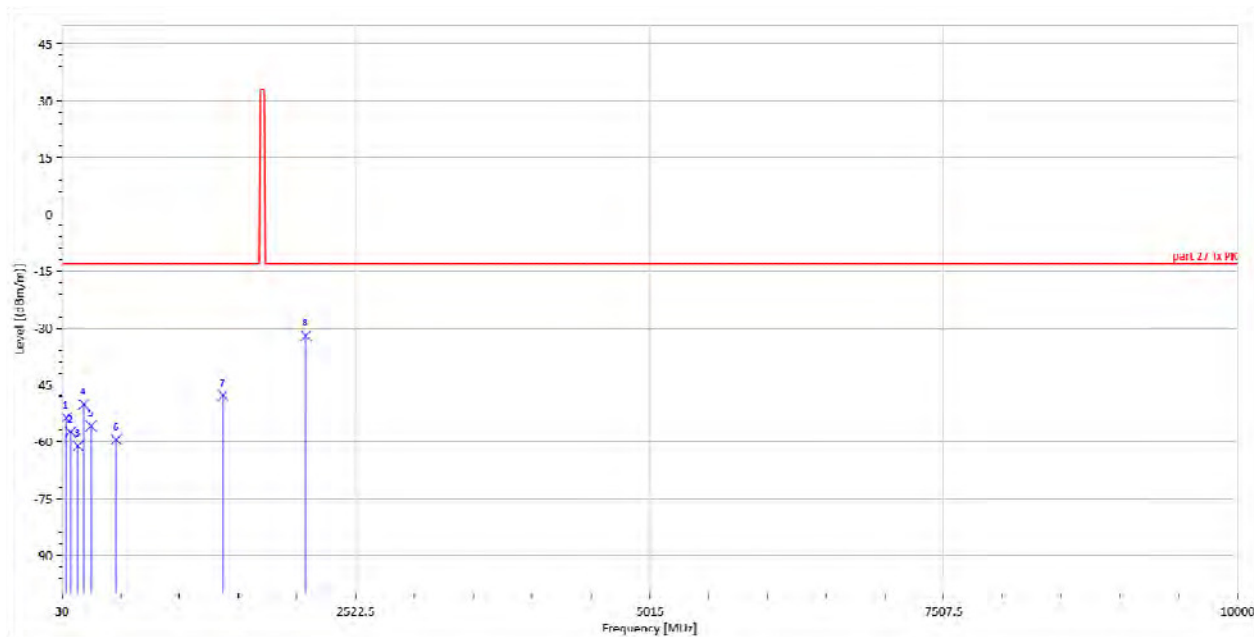
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Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
66.86	S	-53.73	-50.62	-2.16	-0.95	-13	-40.73
102.75	S	-57.42	-53.09	-3.14	-1.19	-13	-44.42
165.80	S	-61.13	-61.69	2.10	-1.54	-13	-48.13
214.30	S	-50.14	-52.55	4.12	-1.71	-13	-37.14
277.35	S	-55.86	-57.40	3.52	-1.98	-13	-42.86
488.81	S	-59.47	-61.12	4.21	-2.57	-13	-46.47
1396.00	H	-47.76	-49.26	5.85	-4.35	-13.01	-34.75
2098.00	H	-32.04	-34.68	8.01	-5.37	-13.01	-19.03

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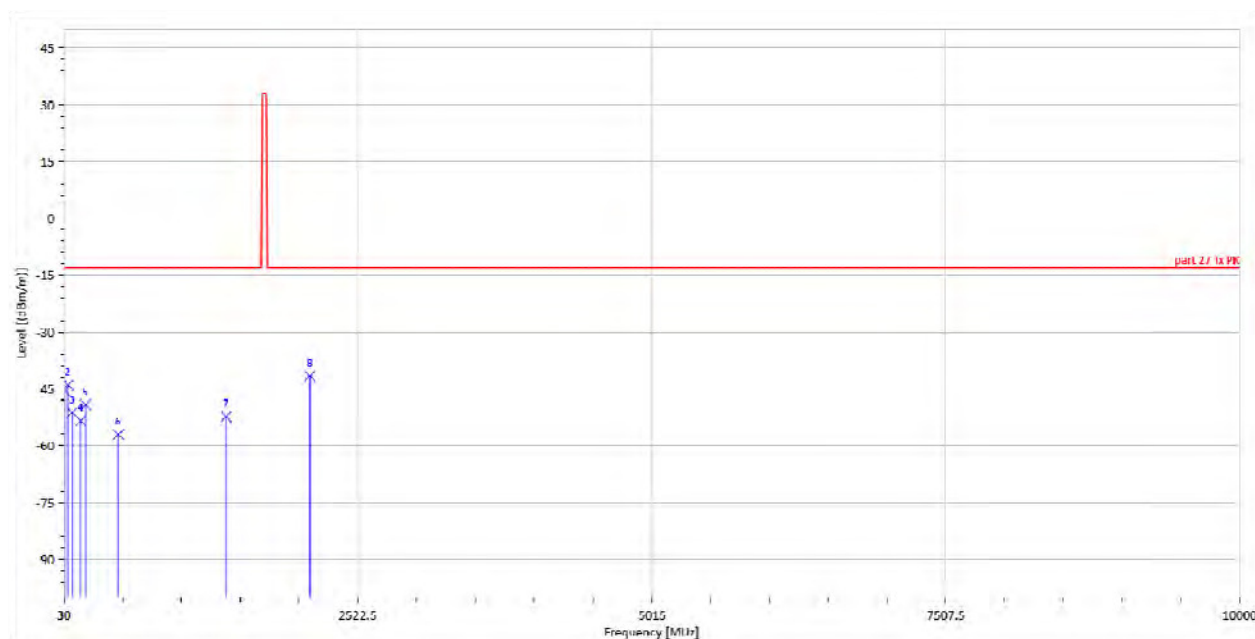
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Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-45.48	-28.16	-16.61	-0.71	-13	-32.48
63.95	S	-43.96	-40.48	-2.55	-0.93	-13	-30.96
99.84	S	-51.23	-47.03	-3.03	-1.17	-13	-38.23
172.59	S	-53.46	-54.70	2.83	-1.58	-13	-40.46
214.30	S	-49.24	-51.65	4.12	-1.71	-13	-36.24
490.75	S	-57.04	-58.50	4.22	-2.76	-13	-44.04
1405.00	H	-52.32	-53.85	5.89	-4.36	-13.01	-39.31
2116.00	H	-41.56	-44.18	8.02	-5.40	-13.01	-28.55

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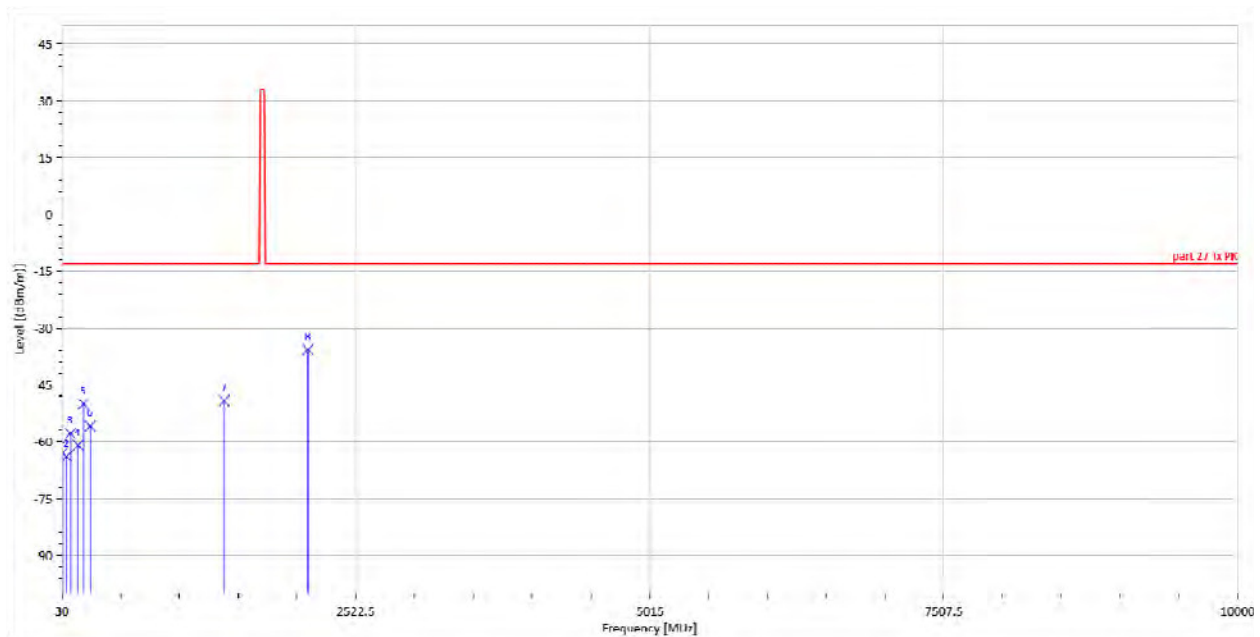
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Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-62.97	-45.65	-16.61	-0.71	-13	-49.97
69.77	S	-63.93	-61.18	-1.77	-0.98	-13	-50.93
102.75	S	-57.81	-53.48	-3.14	-1.19	-13	-44.81
166.77	S	-60.94	-61.58	2.21	-1.56	-13	-47.94
213.33	S	-50.01	-52.38	4.07	-1.70	-13	-37.01
270.56	S	-55.91	-57.30	3.30	-1.91	-13	-42.91
1405.00	H	-49.27	-50.80	5.89	-4.36	-13.01	-36.26
2116.00	H	-35.70	-38.32	8.02	-5.40	-13.01	-22.69

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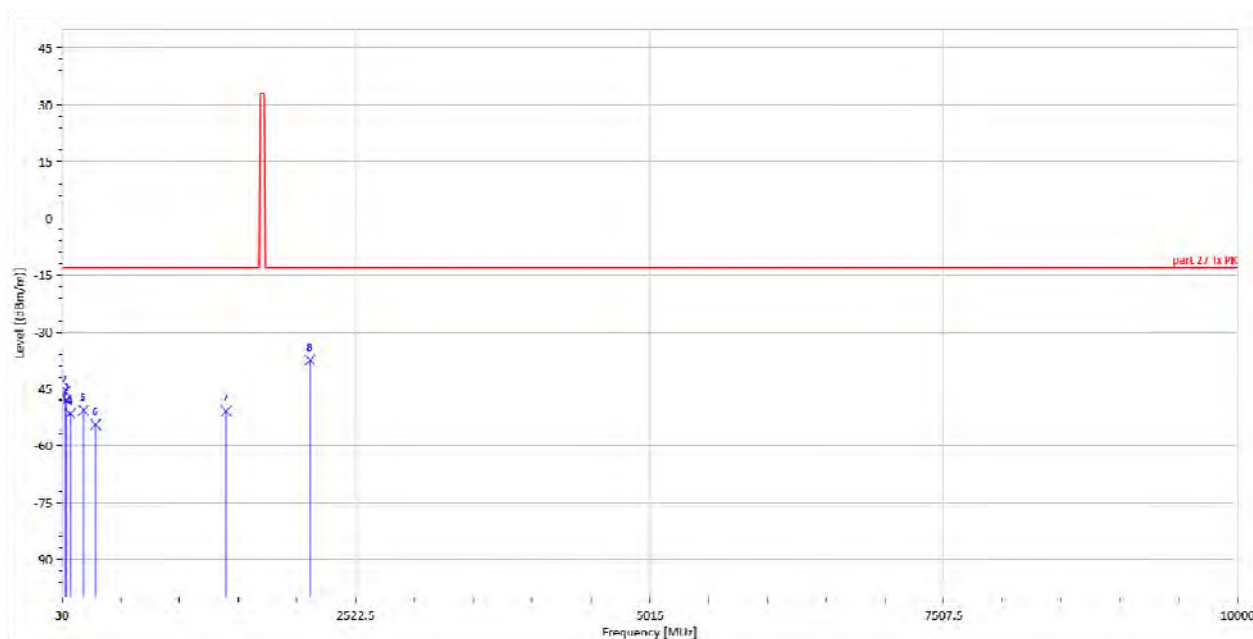
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Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
32.91	S	-47.38	-26.84	-19.87	-0.67	-13	-34.38
56.19	S	-45.83	-40.39	-4.59	-0.85	-13	-32.83
69.77	S	-47.92	-45.17	-1.77	-0.98	-13	-34.92
100.81	S	-51.53	-47.29	-3.07	-1.17	-13	-38.53
213.33	S	-50.67	-53.04	4.07	-1.70	-13	-37.67
315.18	S	-54.42	-56.10	3.78	-2.10	-13	-41.42
1423.00	H	-50.92	-52.49	5.96	-4.39	-13.01	-37.91
2134.00	H	-37.41	-40.00	8.03	-5.45	-13.01	-24.40

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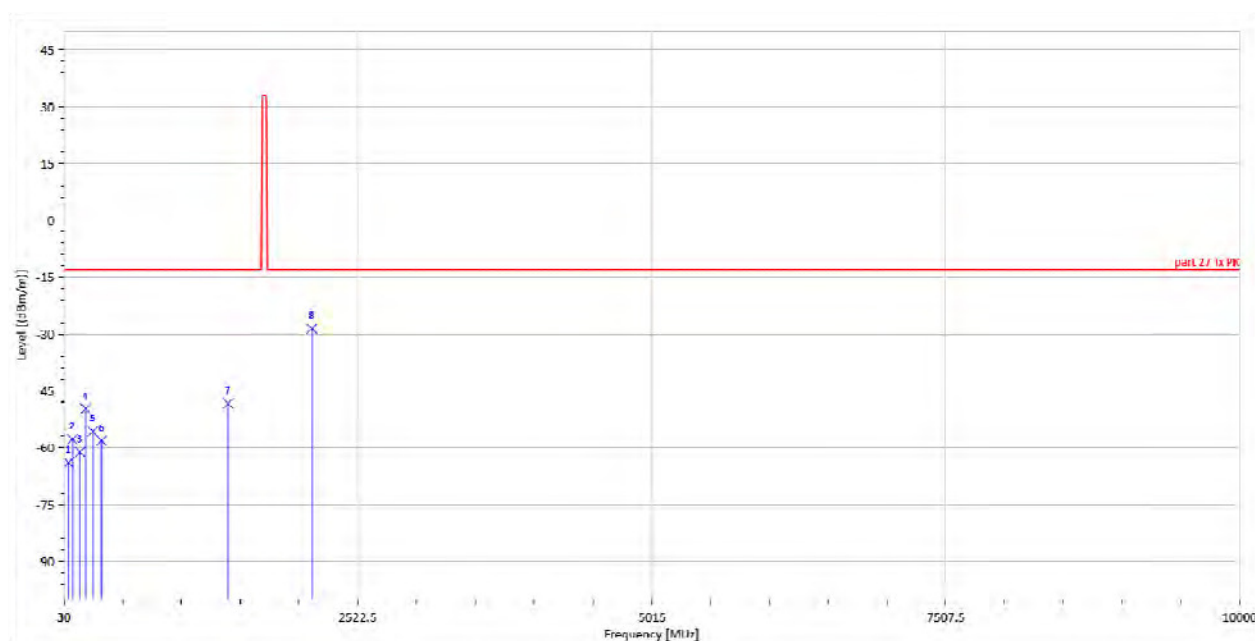
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Operation Mode :	LTE_B12_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
69.77	S	-63.95	-61.20	-1.77	-0.98	-13	-50.95
102.75	S	-57.76	-53.43	-3.14	-1.19	-13	-44.76
166.77	S	-61.15	-61.80	2.21	-1.56	-13	-48.15
214.30	S	-49.72	-52.13	4.12	-1.71	-13	-36.72
274.44	S	-55.70	-57.21	3.43	-1.91	-13	-42.70
348.16	S	-58.12	-59.72	3.74	-2.15	-13	-45.12
1423.00	H	-48.35	-49.92	5.96	-4.39	-13.01	-35.34
2134.00	H	-28.58	-31.16	8.03	-5.45	-13.01	-15.57

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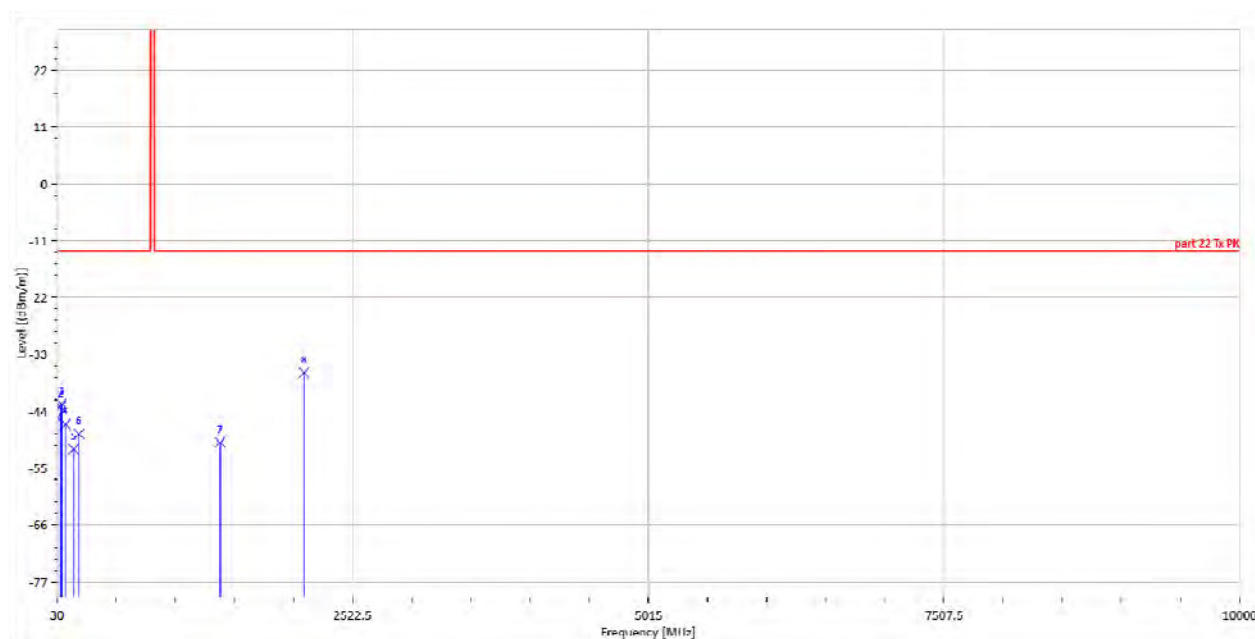
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode :	LTE_B17_BW_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	706.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-45.24	-26.34	-18.19	-0.71	-13	-32.24
61.04	S	-43.13	-39.24	-2.94	-0.95	-13	-30.13
69.77	S	-42.55	-39.80	-1.77	-0.98	-13	-29.55
102.75	S	-46.55	-42.21	-3.14	-1.19	-13	-33.55
169.68	S	-51.31	-52.45	2.53	-1.40	-13	-38.31
215.27	S	-48.41	-50.87	4.17	-1.71	-13	-35.41
1406.00	H	-50.03	-51.56	5.89	-4.36	-13	-37.03
2113.00	H	-36.53	-39.16	8.02	-5.39	-13	-23.53

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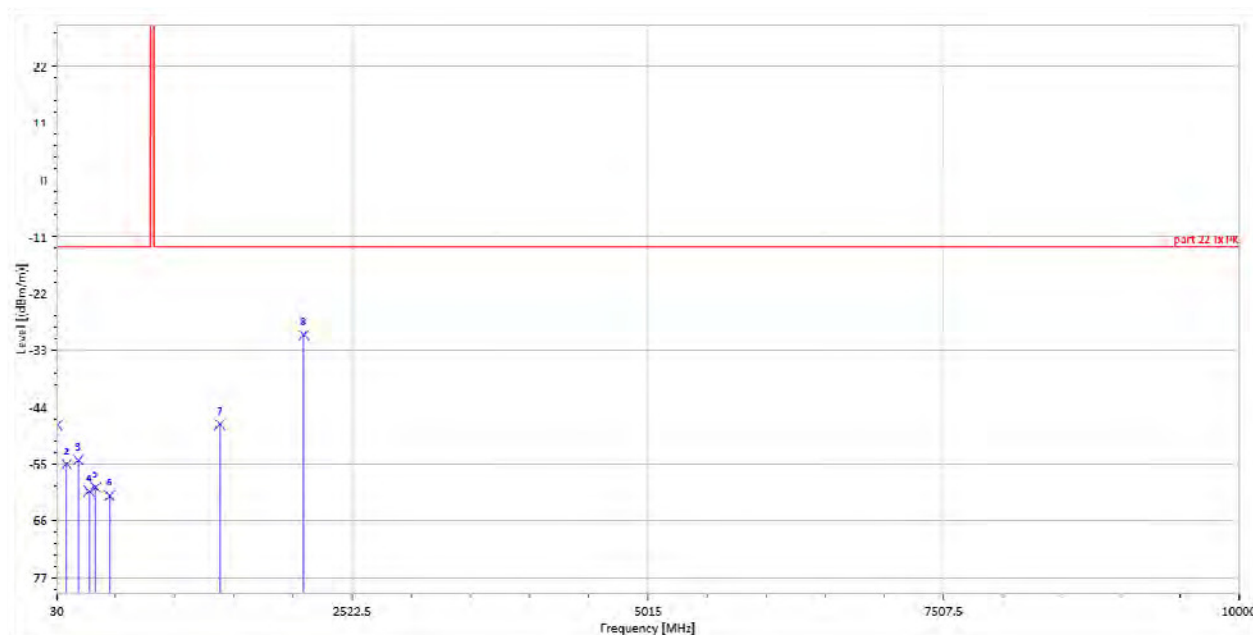
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Operation Mode : LTE_B41_BW_15M_QPSK_RB_1_0
Fundamental Frequency : 2552.5 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/7/20
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-47.41	-27.70	-19.03	-0.68	-13	-34.41
113.42	S	-54.99	-50.50	-3.26	-1.24	-13	-41.99
212.36	S	-54.25	-56.57	4.02	-1.71	-13	-41.25
303.54	S	-60.25	-61.96	3.80	-2.08	-13	-47.25
358.83	S	-59.52	-61.13	3.72	-2.10	-13	-46.52
476.20	S	-61.13	-62.88	4.18	-2.44	-13	-48.13
1406.00	H	-47.28	-48.81	5.89	-4.36	-13	-34.28
2113.00	H	-29.96	-32.59	8.02	-5.39	-13	-16.96

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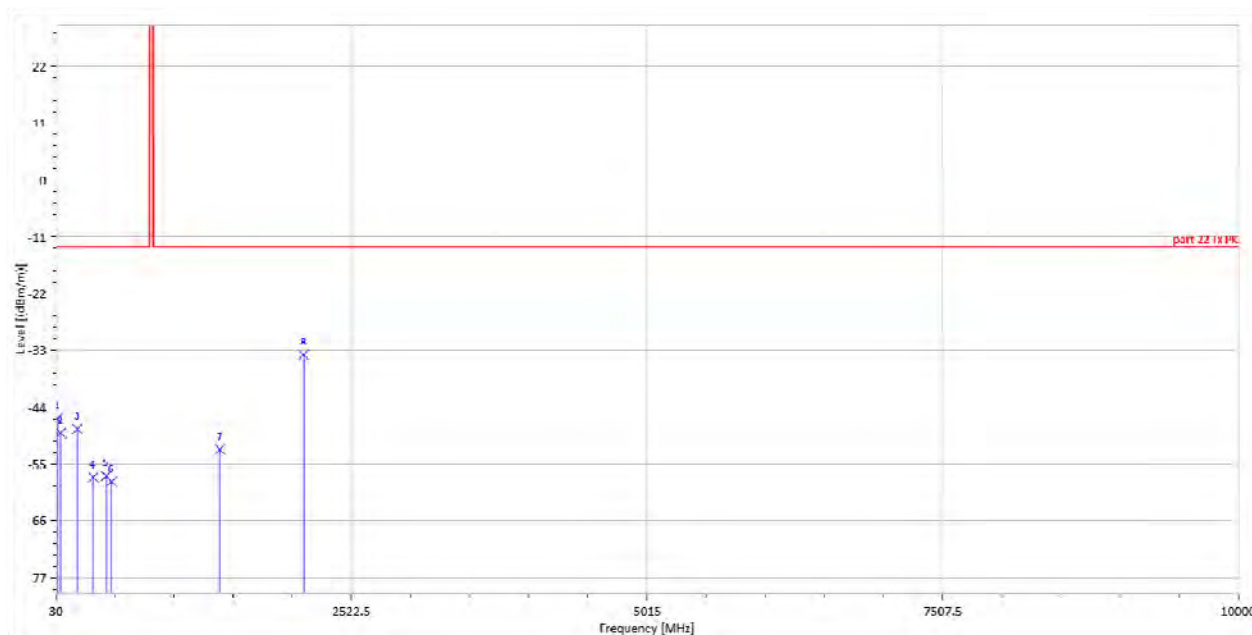
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Operation Mode :	LTE_B17_BW_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
44.55	S	-46.22	-34.88	-10.52	-0.83	-13	-33.22
69.77	S	-48.96	-46.21	-1.77	-0.98	-13	-35.96
210.42	S	-48.23	-50.46	3.93	-1.70	-13	-35.23
345.25	S	-57.56	-59.13	3.75	-2.18	-13	-44.56
454.86	S	-57.32	-59.03	4.14	-2.42	-13	-44.32
499.48	S	-58.39	-59.89	4.24	-2.74	-13	-45.39
1413.00	H	-52.18	-53.73	5.92	-4.37	-13	-39.18
2120.00	H	-33.84	-36.45	8.02	-5.42	-13	-20.84

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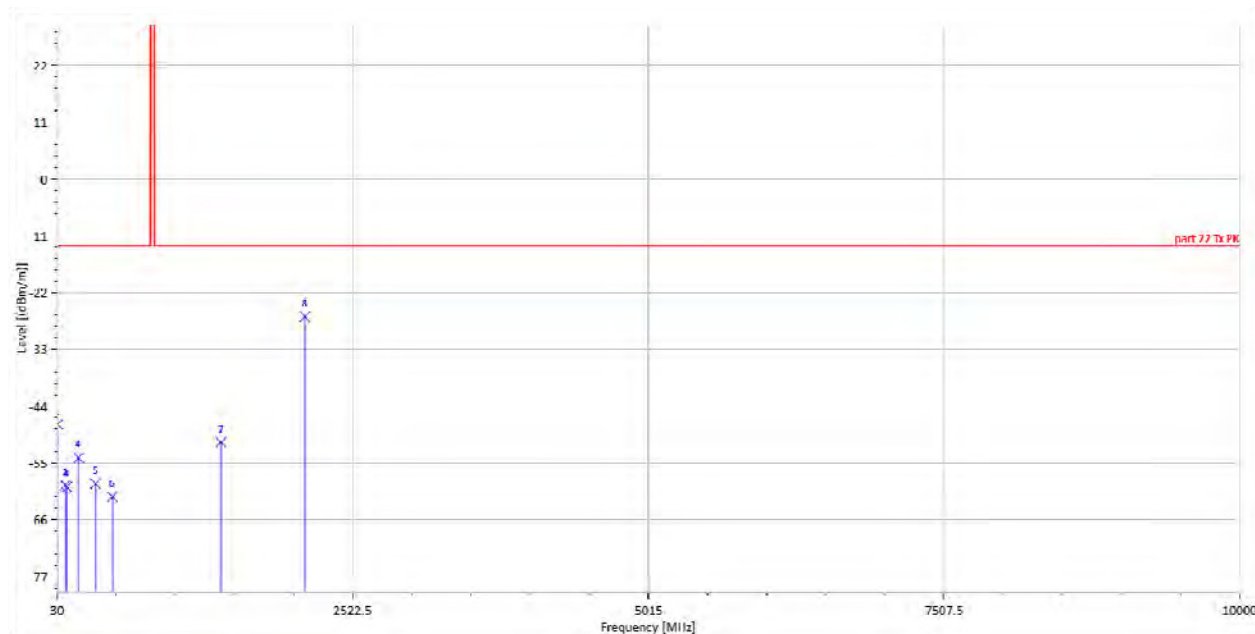
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Operation Mode :	LTE_B17_BW_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-47.50	-28.61	-18.19	-0.71	-13	-34.50
101.78	S	-59.23	-54.95	-3.11	-1.18	-13	-46.23
113.42	S	-59.57	-55.08	-3.26	-1.24	-13	-46.57
212.36	S	-53.97	-56.28	4.02	-1.71	-13	-40.97
354.95	S	-59.02	-60.52	3.73	-2.22	-13	-46.02
498.51	S	-61.50	-63.19	4.24	-2.55	-13	-48.50
1413.00	H	-50.96	-52.50	5.92	-4.37	-13	-37.96
2120.00	H	-26.64	-29.24	8.02	-5.42	-13	-13.64

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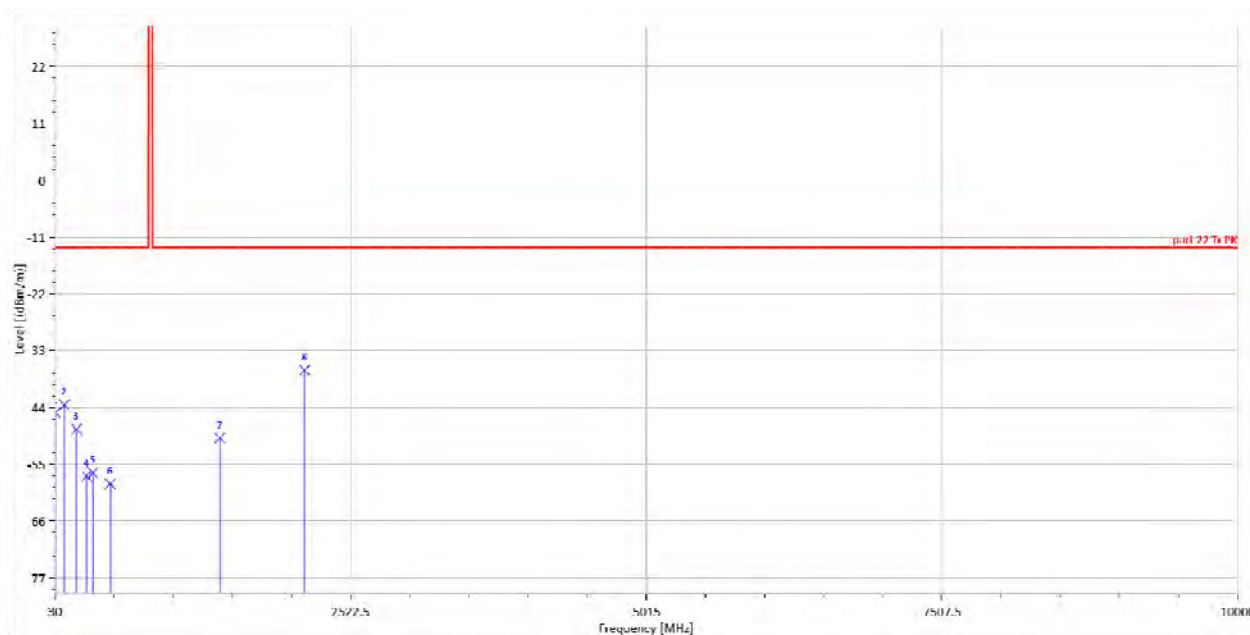
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Operation Mode :	LTE_B17_BW_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-44.98	-26.86	-17.39	-0.73	-13	-31.98
109.54	S	-43.45	-38.82	-3.40	-1.24	-13	-30.45
211.39	S	-48.24	-50.51	3.97	-1.71	-13	-35.24
296.75	S	-57.23	-58.99	3.77	-2.01	-13	-44.23
350.10	S	-56.61	-58.28	3.74	-2.08	-13	-43.61
496.57	S	-58.77	-60.50	4.23	-2.50	-13	-45.77
1420.00	H	-49.90	-51.46	5.95	-4.38	-13	-36.90
2134.00	H	-36.78	-39.36	8.03	-5.45	-13	-23.78

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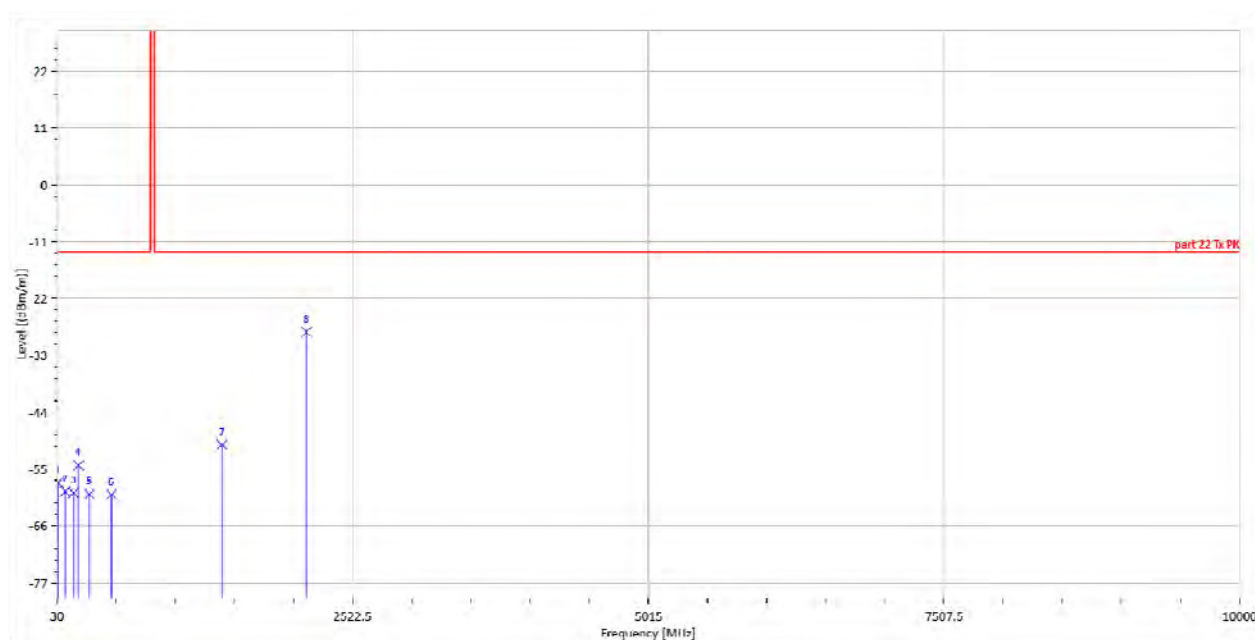
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Operation Mode :	LTE_B17_BW_5M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
40.67	S	-57.63	-43.40	-13.49	-0.75	-13	-44.63
99.84	S	-59.36	-55.16	-3.03	-1.17	-13	-46.36
169.68	S	-59.65	-60.78	2.53	-1.40	-13	-46.65
211.39	S	-54.29	-56.56	3.97	-1.71	-13	-41.29
303.54	S	-59.86	-61.58	3.80	-2.08	-13	-46.86
490.75	S	-59.92	-61.38	4.22	-2.76	-13	-46.92
1420.00	H	-50.29	-51.85	5.95	-4.38	-13	-37.29
2134.00	H	-28.47	-31.05	8.03	-5.45	-13	-15.47

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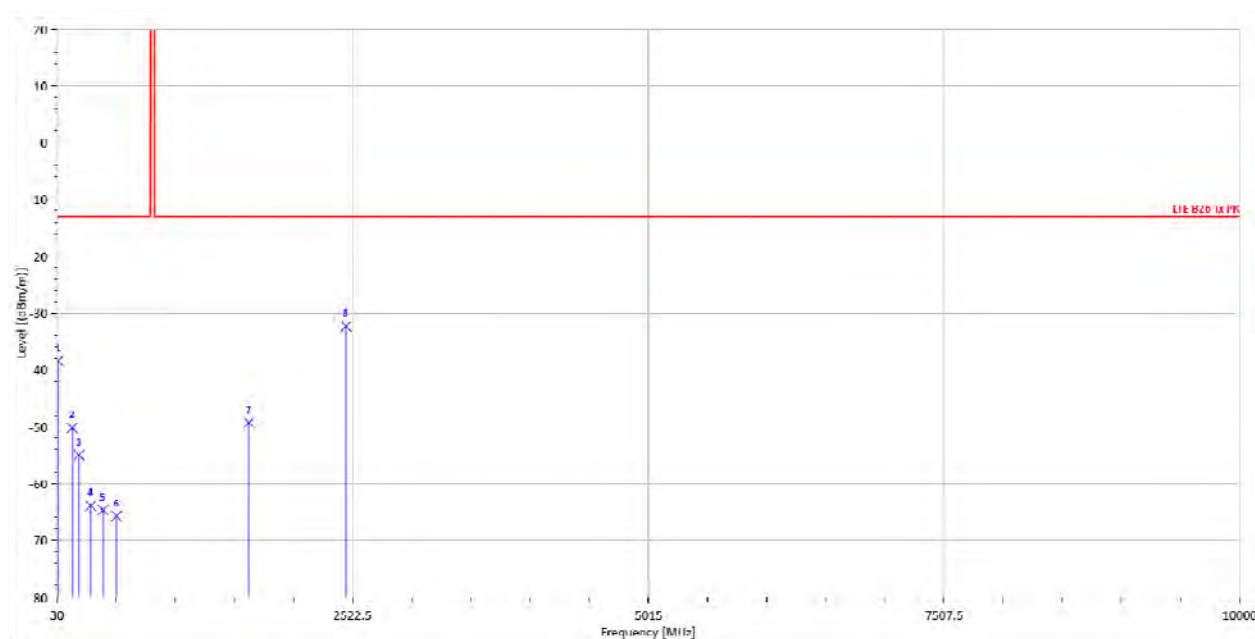
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode :	LTE_B26_3M_QPSK_RB_1_0	Test Date :	2016/7/18
Fundamental Frequency :	825.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
42.61	S	-38.41	-25.64	-12.00	-0.76	-13	-25.41
159.01	S	-50.19	-50.07	1.34	-1.45	-13	-37.19
215.27	S	-54.98	-57.44	4.17	-1.71	-13	-41.98
314.21	S	-63.89	-65.59	3.79	-2.09	-13	-50.89
418.97	S	-64.66	-66.01	3.80	-2.45	-13	-51.66
532.46	S	-65.72	-67.01	4.26	-2.96	-13	-52.72
1648.00	H	-49.31	-51.35	6.75	-4.72	-13	-36.31
2467.00	H	-32.33	-34.72	8.23	-5.84	-13	-19.33

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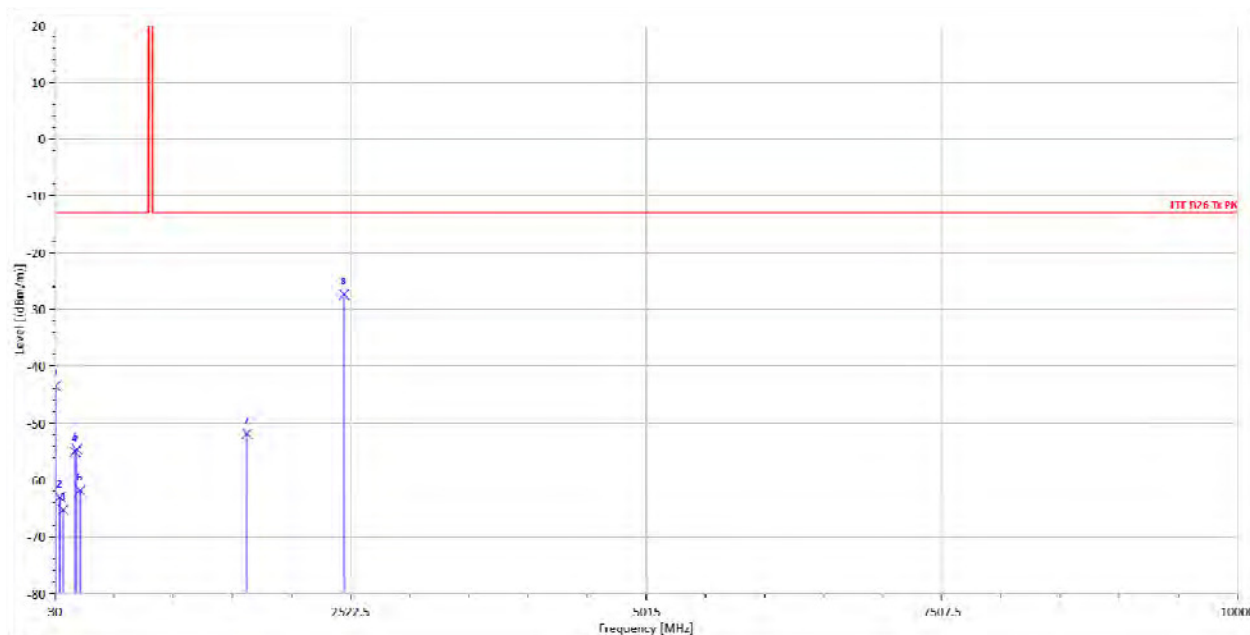
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Operation Mode :	LTE_B26_3M_QPSK_RB_1_0	Test Date :	2016/7/18
Fundamental Frequency :	825.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
37.76	S	-43.46	-26.95	-15.82	-0.70	-13	-30.46
71.71	S	-63.01	-60.29	-1.69	-1.03	-13	-50.01
98.87	S	-65.25	-61.15	-2.94	-1.16	-13	-52.25
198.78	S	-55.03	-57.12	3.72	-1.64	-13	-42.03
213.33	S	-54.59	-56.96	4.07	-1.70	-13	-41.59
242.43	S	-61.83	-63.48	3.46	-1.81	-13	-48.83
1648.00	H	-51.84	-53.88	6.75	-4.72	-13	-38.84
2467.00	H	-27.36	-29.75	8.23	-5.84	-13	-14.36

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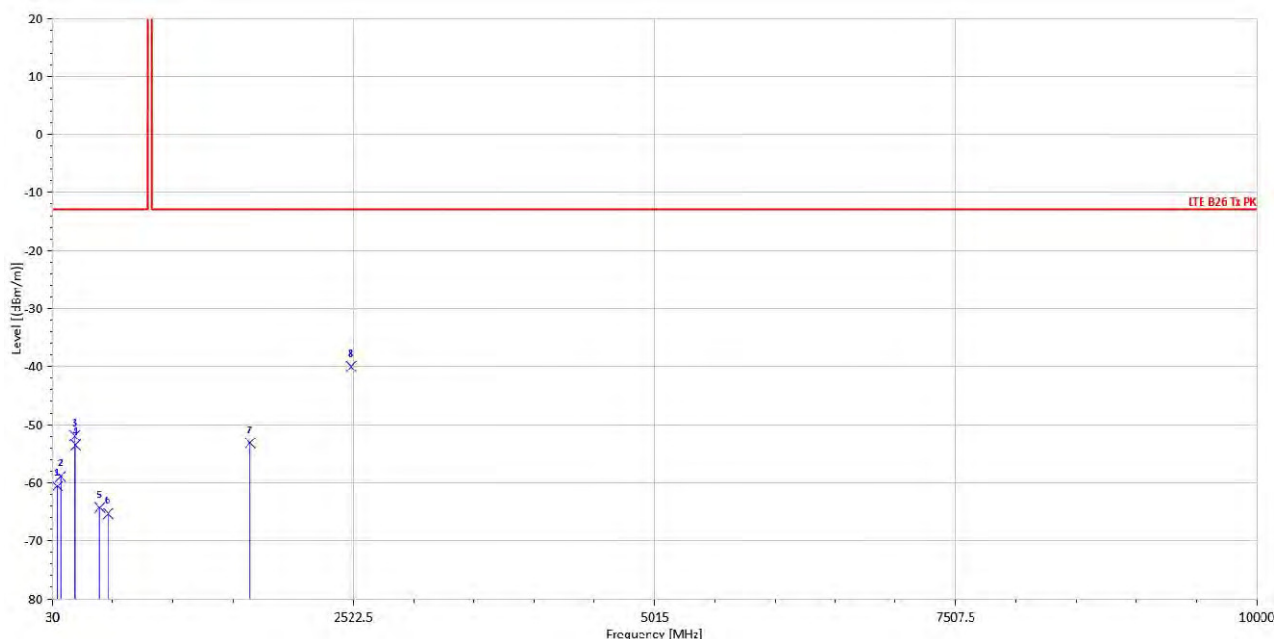
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Operation Mode : LTE_B26_3M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
70.74	S	-60.61	-57.86	-1.72	-1.03	-13	-47.61
97.90	S	-58.93	-54.92	-2.85	-1.16	-13	-45.93
214.30	S	-51.95	-54.36	4.12	-1.71	-13	-38.95
221.09	S	-53.52	-56.14	4.37	-1.75	-13	-40.52
420.91	S	-64.30	-65.82	3.82	-2.31	-13	-51.30
491.72	S	-65.35	-66.90	4.22	-2.67	-13	-52.35
1666.00	H	-53.16	-55.22	6.81	-4.76	-13	-40.16
2503.00	H	-39.99	-42.36	8.26	-5.89	-13	-26.99

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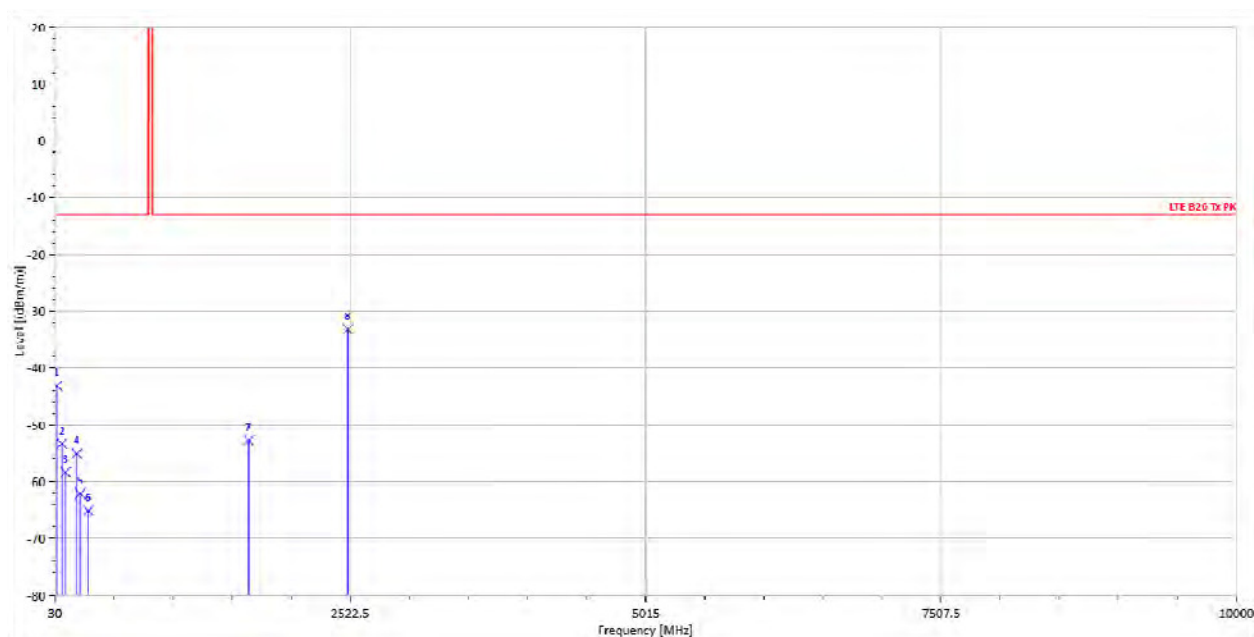
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Operation Mode : LTE_B26_3M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
47.46	S	-43.12	-33.70	-8.64	-0.77	-13	-30.12
89.17	S	-53.31	-50.10	-2.10	-1.11	-13	-40.31
119.24	S	-58.38	-54.09	-2.99	-1.30	-13	-45.38
214.30	S	-55.09	-57.50	4.12	-1.71	-13	-42.09
243.40	S	-62.13	-63.79	3.41	-1.76	-13	-49.13
312.27	S	-65.15	-66.83	3.79	-2.11	-13	-52.15
1666.00	H	-52.76	-54.81	6.81	-4.76	-13	-39.76
2503.00	H	-33.19	-35.56	8.26	-5.89	-13	-20.19

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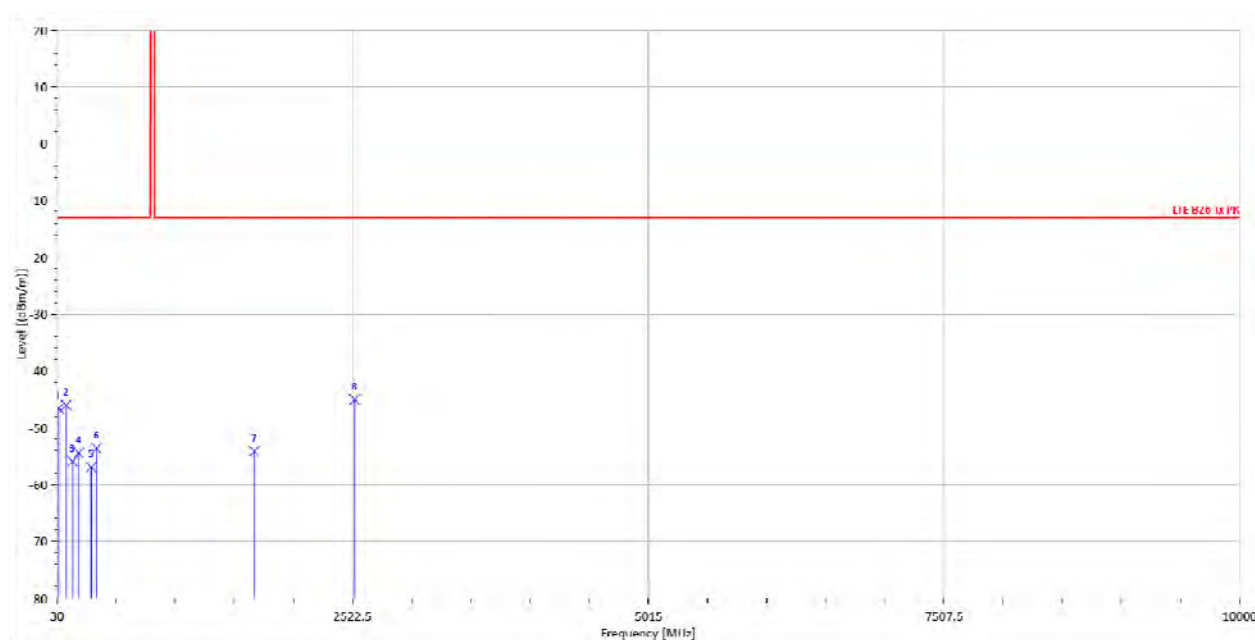
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Operation Mode : LTE_B26_3M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 847.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
44.55	S	-46.63	-35.28	-10.52	-0.83	-13	-33.63
107.60	S	-46.03	-41.49	-3.32	-1.21	-13	-33.03
160.95	S	-55.92	-56.11	1.55	-1.36	-13	-42.92
214.30	S	-54.43	-56.84	4.12	-1.71	-13	-41.43
319.06	S	-56.95	-58.77	3.78	-1.96	-13	-43.95
363.68	S	-53.65	-55.11	3.70	-2.24	-13	-40.65
1693.00	H	-54.14	-56.25	6.91	-4.80	-13	-41.14
2539.00	H	-45.01	-47.43	8.32	-5.90	-13	-32.01

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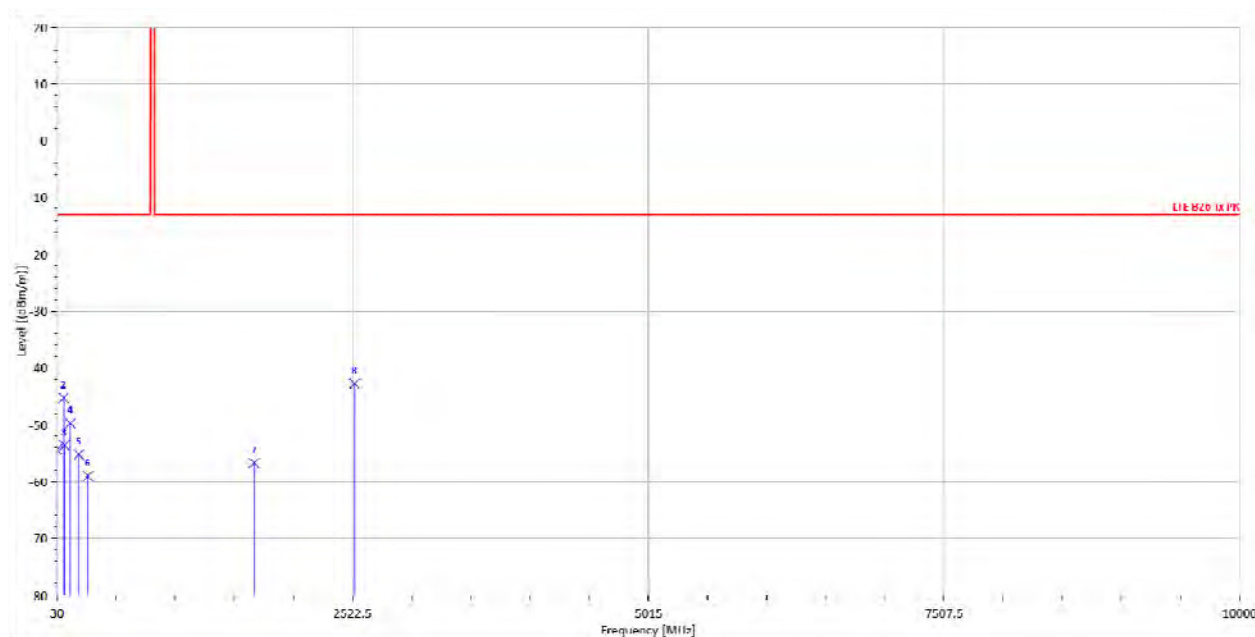
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Operation Mode : LTE_B26_3M_QPSK_RB_1_0 Test Date : 2016/7/18
Fundamental Frequency : 847.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-54.39	-33.01	-20.71	-0.67	-13	-41.39
87.23	S	-45.24	-42.19	-1.97	-1.08	-13	-32.24
94.02	S	-53.60	-49.96	-2.51	-1.14	-13	-40.60
142.52	S	-49.75	-47.78	-0.66	-1.31	-13	-36.75
214.30	S	-55.20	-57.61	4.12	-1.71	-13	-42.20
290.93	S	-59.01	-60.74	3.72	-1.99	-13	-46.01
1693.00	H	-56.72	-58.83	6.91	-4.80	-13	-43.72
2539.00	H	-42.76	-45.17	8.32	-5.90	-13	-29.76

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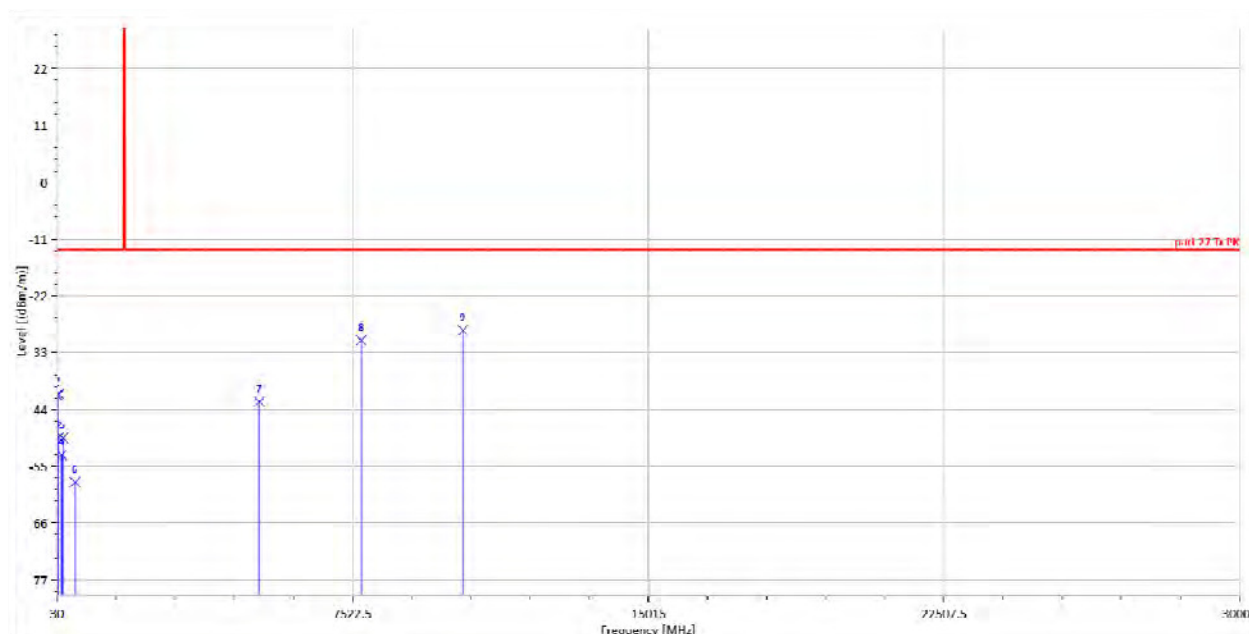
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Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode :	LTE_B38_BW_10M_QPSK_RB_1_49	Test Date :	2016/8/10
Fundamental Frequency :	2575 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
43.58	S	-41.29	-31.38	-9.11	-0.80	-25	-16.29
58.13	S	-40.94	-38.38	-1.67	-0.88	-25	-15.94
71.71	S	-49.35	-48.78	0.46	-1.03	-25	-24.35
147.37	S	-52.75	-53.52	2.16	-1.40	-25	-27.75
184.23	S	-49.49	-53.76	5.91	-1.64	-25	-24.49
491.72	S	-58.06	-61.76	6.37	-2.67	-25	-33.06
5158.00	H	-42.48	-46.41	12.39	-8.46	-25	-17.48
7741.00	H	-30.61	-30.95	10.65	-10.32	-25	-5.61
10320.00	H	-28.66	-28.02	11.15	-11.79	-25	-3.66

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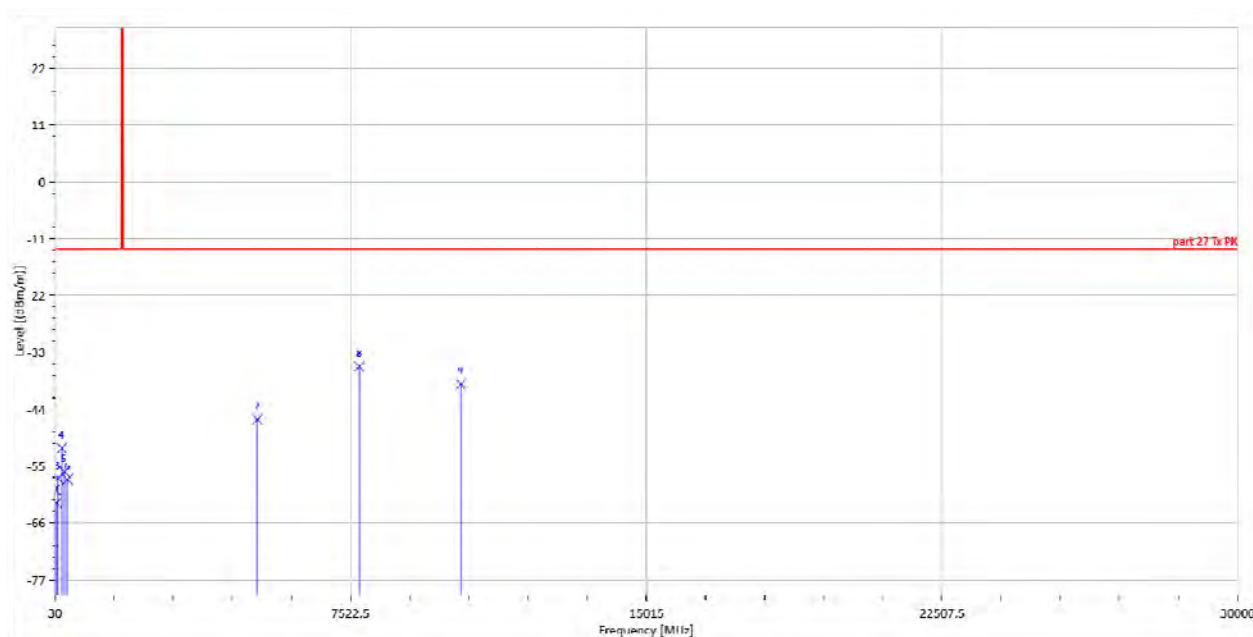
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Operation Mode : LTE_B38_BW_10M_QPSK_RB_1_49
Fundamental Frequency : 2575 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-59.60	-40.37	-18.56	-0.67	-25	-34.60
71.71	S	-62.12	-61.54	0.46	-1.03	-25	-37.12
110.51	S	-57.37	-54.89	-1.24	-1.24	-25	-32.37
204.60	S	-51.55	-55.81	5.93	-1.67	-25	-26.55
271.53	S	-56.10	-59.68	5.49	-1.91	-25	-31.10
345.25	S	-57.59	-61.30	5.90	-2.18	-25	-32.59
5158.00	H	-46.04	-49.97	12.39	-8.46	-25	-21.04
7741.00	H	-35.73	-36.07	10.65	-10.32	-25	-10.73
10320.00	H	-39.14	-38.51	11.15	-11.79	-25	-14.14

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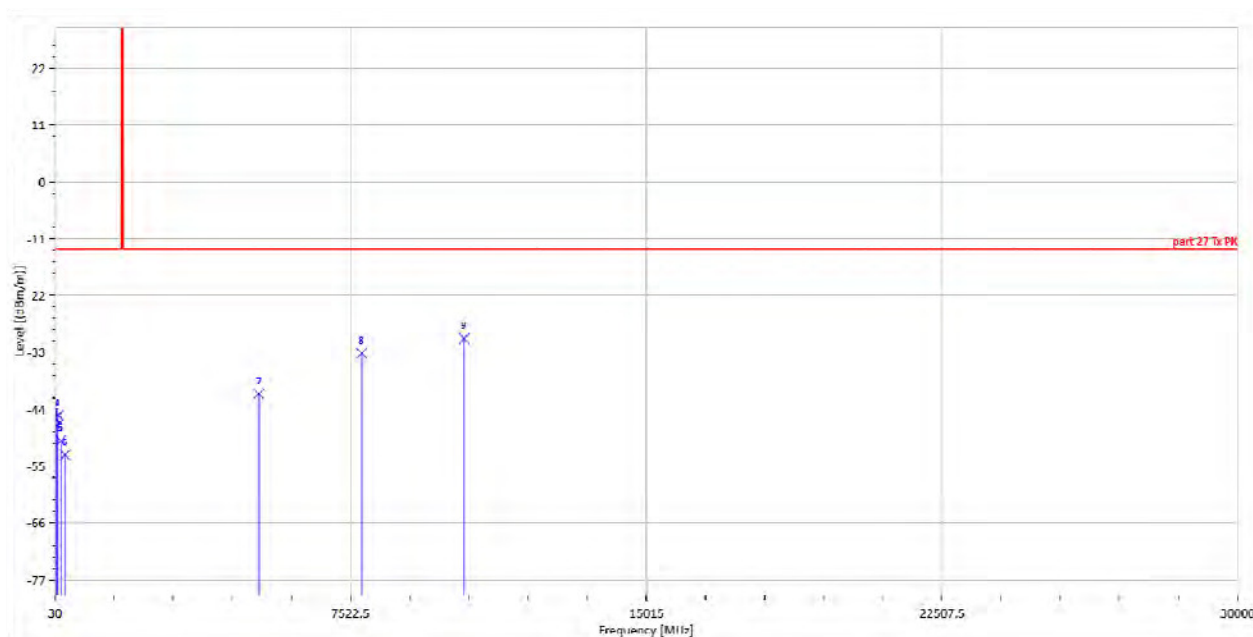
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Operation Mode : LTE_B38_BW_10M_QPSK_RB_1_49
Fundamental Frequency : 2595 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-45.82	-30.65	-14.46	-0.71	-25	-20.82
58.13	S	-45.74	-43.19	-1.67	-0.88	-25	-20.74
73.65	S	-47.11	-46.62	0.51	-1.00	-25	-22.11
108.57	S	-45.17	-42.74	-1.21	-1.22	-25	-20.17
181.32	S	-50.08	-54.27	5.78	-1.59	-25	-25.08
288.02	S	-52.80	-56.64	5.84	-2.00	-25	-27.80
5200.00	H	-41.06	-44.99	12.42	-8.49	-25	-16.06
7804.00	H	-33.14	-33.58	10.64	-10.21	-25	-8.14
10400.00	H	-30.32	-29.39	11.04	-11.98	-25	-5.32

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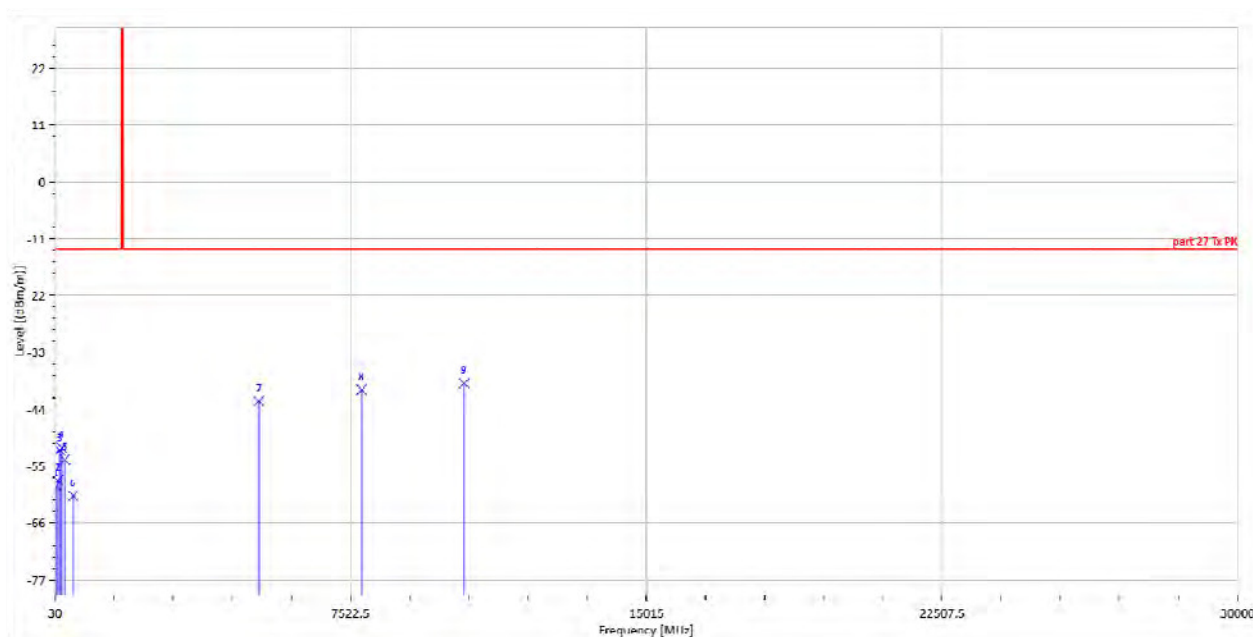
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Operation Mode : LTE_B38_BW_10M_QPSK_RB_1_49
Fundamental Frequency : 2595 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
59.10	S	-58.81	-56.66	-1.29	-0.87	-25	-33.81
106.63	S	-57.79	-55.44	-1.14	-1.21	-25	-32.79
159.01	S	-51.98	-54.01	3.49	-1.45	-25	-26.98
201.69	S	-51.45	-55.65	5.87	-1.66	-25	-26.45
277.35	S	-53.75	-57.44	5.67	-1.98	-25	-28.75
492.69	S	-60.75	-64.63	6.37	-2.49	-25	-35.75
5200.00	H	-42.46	-46.39	12.42	-8.49	-25	-17.46
7804.00	H	-40.25	-40.68	10.64	-10.21	-25	-15.25
10400.00	H	-38.95	-38.02	11.04	-11.98	-25	-13.95

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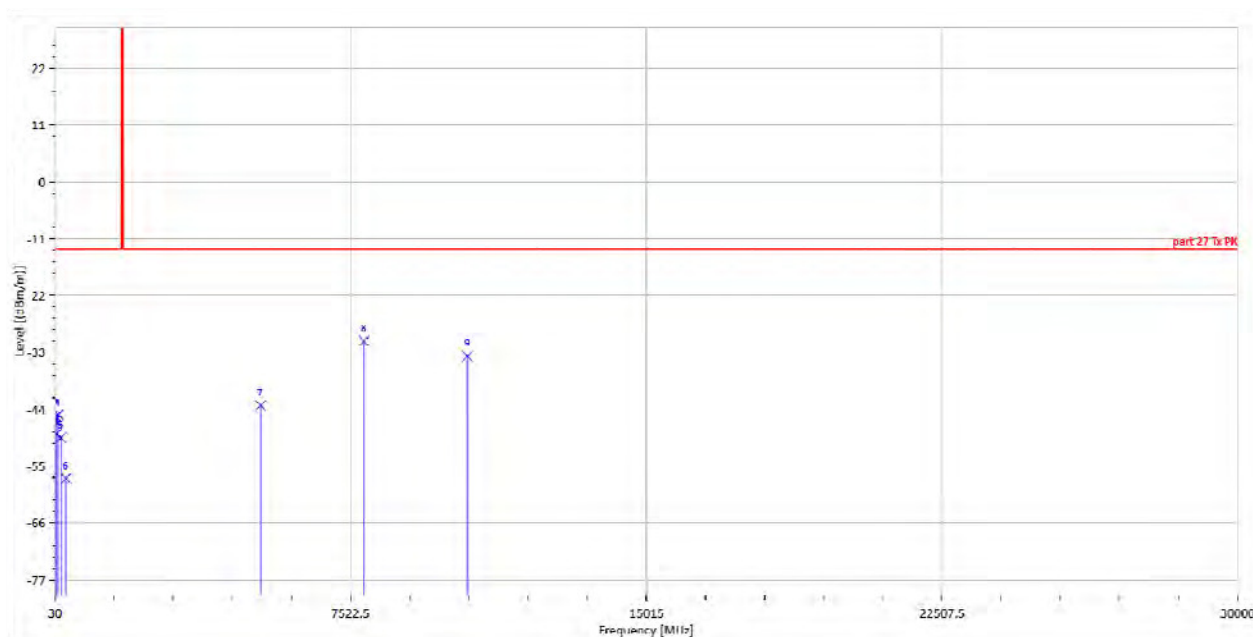
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Operation Mode : LTE_B38_BW_10M_QPSK_RB_1_49
Fundamental Frequency : 2615 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-46.32	-29.58	-16.04	-0.71	-25	-21.32
58.13	S	-45.35	-42.79	-1.67	-0.88	-25	-20.35
65.89	S	-48.75	-47.67	-0.14	-0.94	-25	-23.75
111.48	S	-45.05	-42.62	-1.19	-1.23	-25	-20.05
184.23	S	-49.50	-53.77	5.91	-1.64	-25	-24.50
309.36	S	-57.41	-61.37	5.94	-1.98	-25	-32.41
5242.00	H	-43.26	-47.18	12.45	-8.53	-25	-18.26
7860.00	H	-30.82	-31.00	10.63	-10.45	-25	-5.82
10480.00	H	-33.73	-32.85	10.93	-11.81	-25	-8.73

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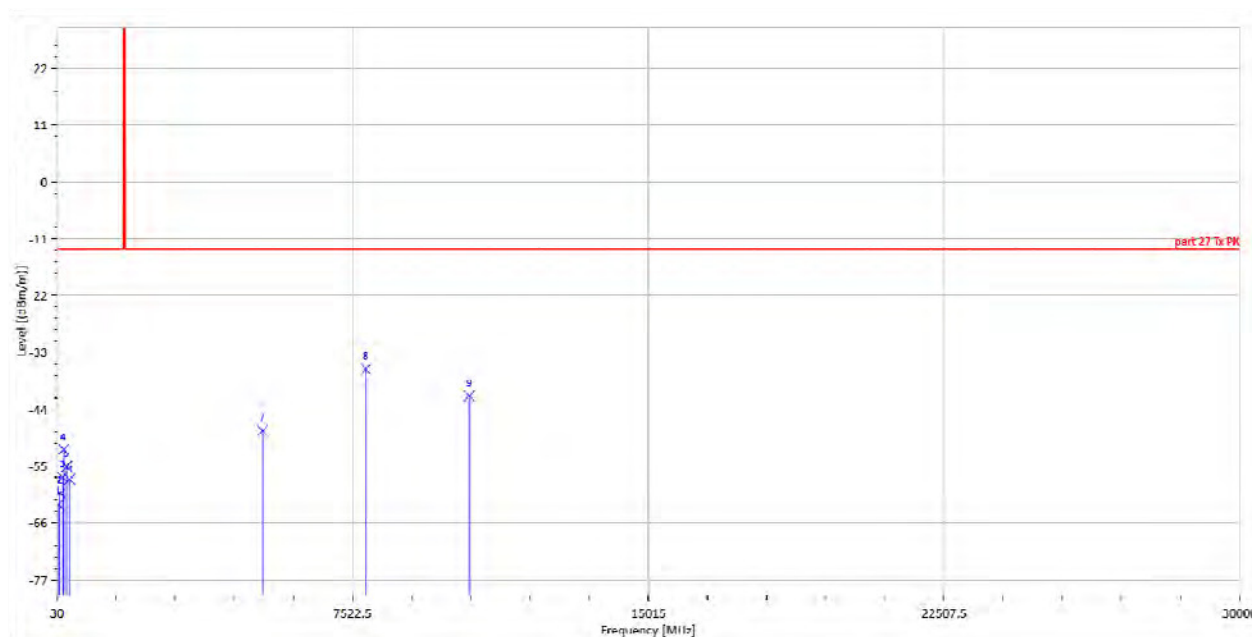
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Operation Mode : LTE_B38_BW_10M_QPSK_RB_1_49
Fundamental Frequency : 2615 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
70.74	S	-62.39	-61.79	0.43	-1.03	-25	-37.39
107.60	S	-60.25	-57.86	-1.17	-1.21	-25	-35.25
171.62	S	-57.14	-60.45	4.88	-1.57	-25	-32.14
203.63	S	-51.79	-56.03	5.91	-1.67	-25	-26.79
276.38	S	-55.07	-58.75	5.64	-1.95	-25	-30.07
349.13	S	-57.57	-61.38	5.89	-2.08	-25	-32.57
5242.00	H	-48.17	-52.09	12.45	-8.53	-25	-23.17
7860.00	H	-36.27	-36.45	10.63	-10.45	-25	-11.27
10480.00	H	-41.40	-40.51	10.93	-11.81	-25	-16.40

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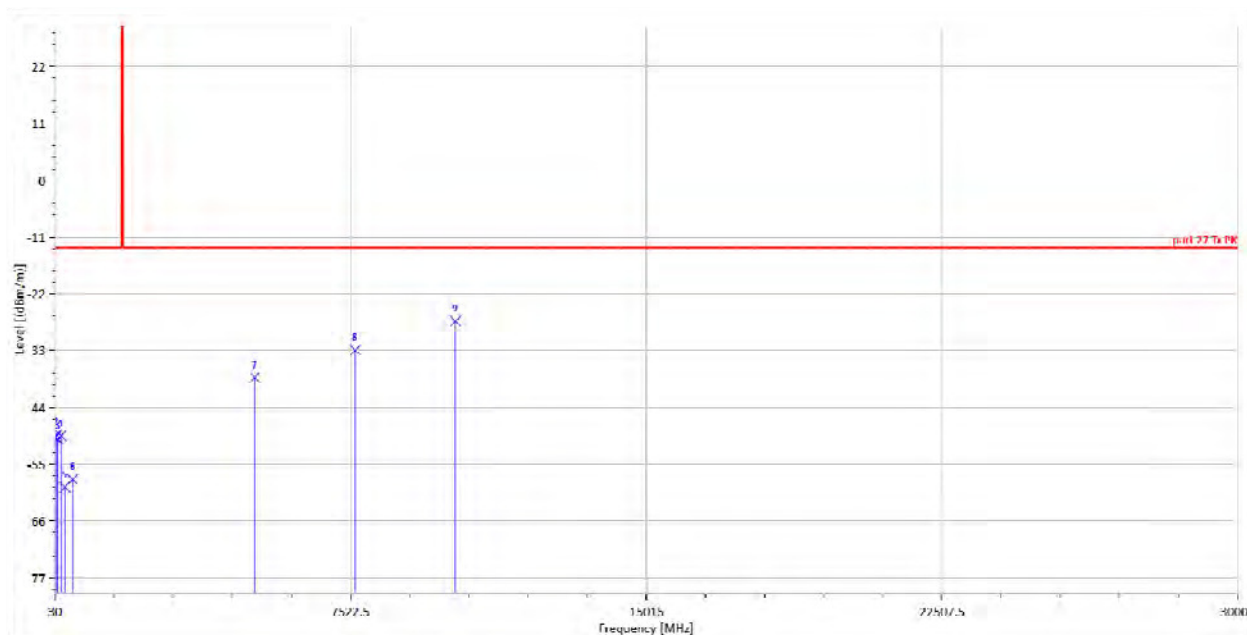
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Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode :	LTE_B41_BW_15M_QPSK_RB_1_0	Test Date :	2016/8/10
Fundamental Frequency :	2552.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-49.79	-33.82	-15.24	-0.73	-25	-24.79
71.71	S	-49.26	-48.68	0.46	-1.03	-25	-24.26
106.63	S	-50.10	-47.75	-1.14	-1.21	-25	-25.10
183.26	S	-49.44	-53.70	5.87	-1.60	-25	-24.44
285.11	S	-59.40	-63.25	5.81	-1.96	-25	-34.40
477.17	S	-57.90	-61.68	6.34	-2.56	-25	-32.90
5095.00	H	-38.18	-42.18	12.36	-8.36	-25	-13.18
7643.00	H	-32.86	-33.03	10.67	-10.50	-25	-7.86
10180.00	H	-27.28	-26.74	11.35	-11.89	-25	-2.28

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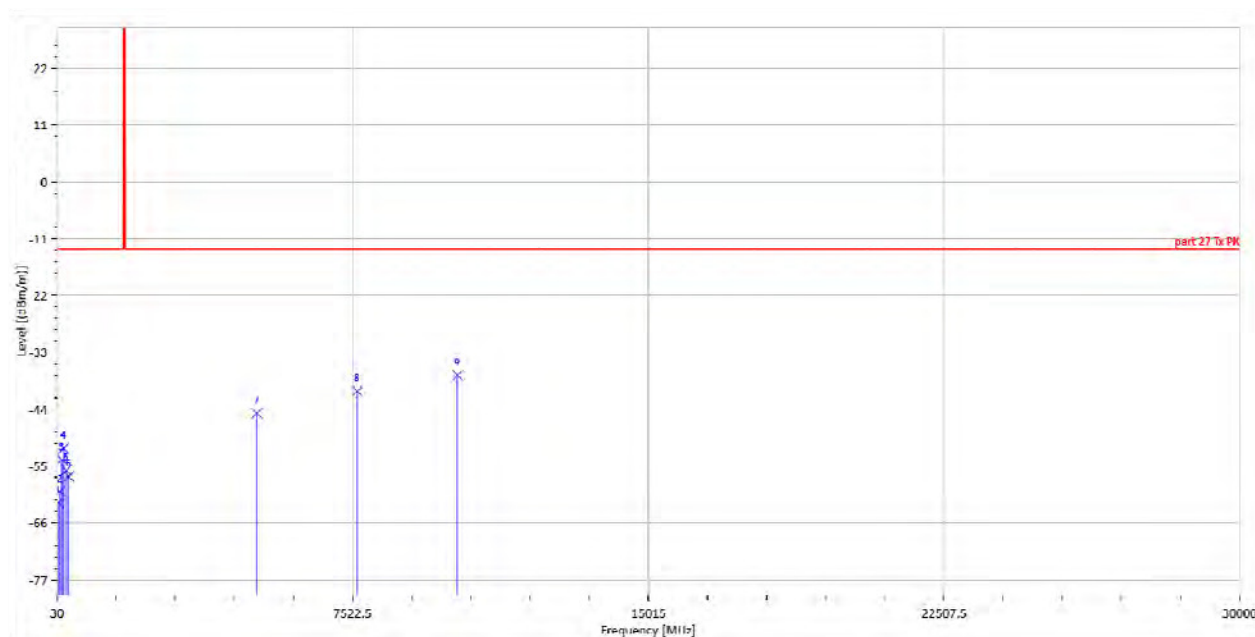
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Operation Mode : LTE_B41_BW_15M_QPSK_RB_1_0
Fundamental Frequency : 2552.5 MHz
Operation Band : Tx CH Low
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
71.71	S	-62.10	-61.52	0.46	-1.03	-25	-37.10
108.57	S	-59.90	-57.47	-1.21	-1.22	-25	-34.90
159.01	S	-53.74	-55.77	3.49	-1.45	-25	-28.74
201.69	S	-51.60	-55.81	5.87	-1.66	-25	-26.60
270.56	S	-55.78	-59.32	5.45	-1.91	-25	-30.78
322.94	S	-56.99	-60.82	5.92	-2.10	-25	-31.99
5095.00	H	-44.79	-48.79	12.36	-8.36	-25	-19.79
7643.00	H	-40.46	-40.63	10.67	-10.50	-25	-15.46
10180.00	H	-37.42	-36.88	11.35	-11.89	-25	-12.42

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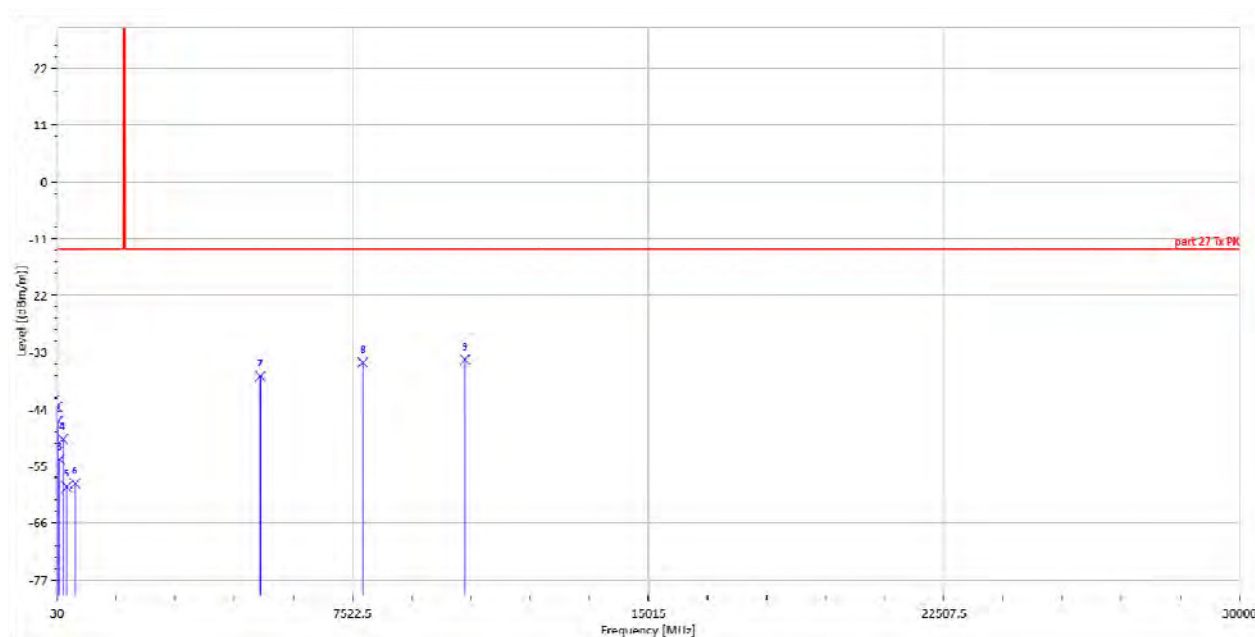
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Operation Mode : LTE_B41_BW_15M_QPSK_RB_1_0
Fundamental Frequency : 2600 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
32.91	S	-43.48	-25.08	-17.72	-0.67	-25	-18.48
64.92	S	-46.23	-45.05	-0.27	-0.92	-25	-21.23
97.90	S	-53.69	-51.83	-0.70	-1.16	-25	-28.69
184.23	S	-49.82	-54.09	5.91	-1.64	-25	-24.82
278.32	S	-59.02	-62.74	5.70	-1.98	-25	-34.02
493.66	S	-58.40	-62.36	6.37	-2.42	-25	-33.40
5186.00	H	-37.59	-41.57	12.41	-8.43	-25	-12.59
7783.00	H	-34.97	-35.36	10.64	-10.26	-25	-9.97
10370.00	H	-34.40	-33.47	11.08	-12.00	-25	-9.40

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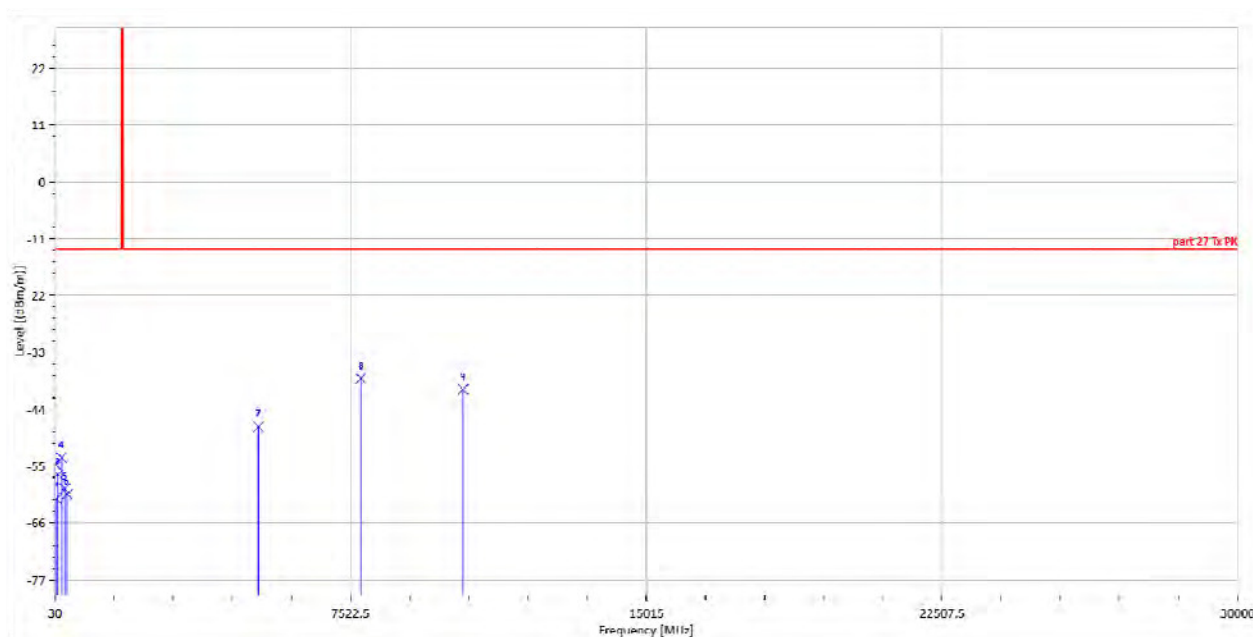
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Operation Mode : LTE_B41_BW_15M_QPSK_RB_1_0
Fundamental Frequency : 2600 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
31.94	S	-54.52	-35.29	-18.56	-0.67	-25	-29.52
70.74	S	-61.36	-60.76	0.43	-1.03	-25	-36.36
105.66	S	-56.61	-54.31	-1.10	-1.20	-25	-31.61
200.72	S	-53.39	-57.58	5.85	-1.65	-25	-28.39
280.26	S	-59.40	-63.20	5.76	-1.96	-25	-34.40
338.46	S	-60.45	-64.28	5.91	-2.08	-25	-35.45
5186.00	H	-47.40	-51.38	12.41	-8.43	-25	-22.40
7783.00	H	-38.02	-38.41	10.64	-10.26	-25	-13.02
10370.00	H	-40.16	-39.24	11.08	-12.00	-25	-15.16

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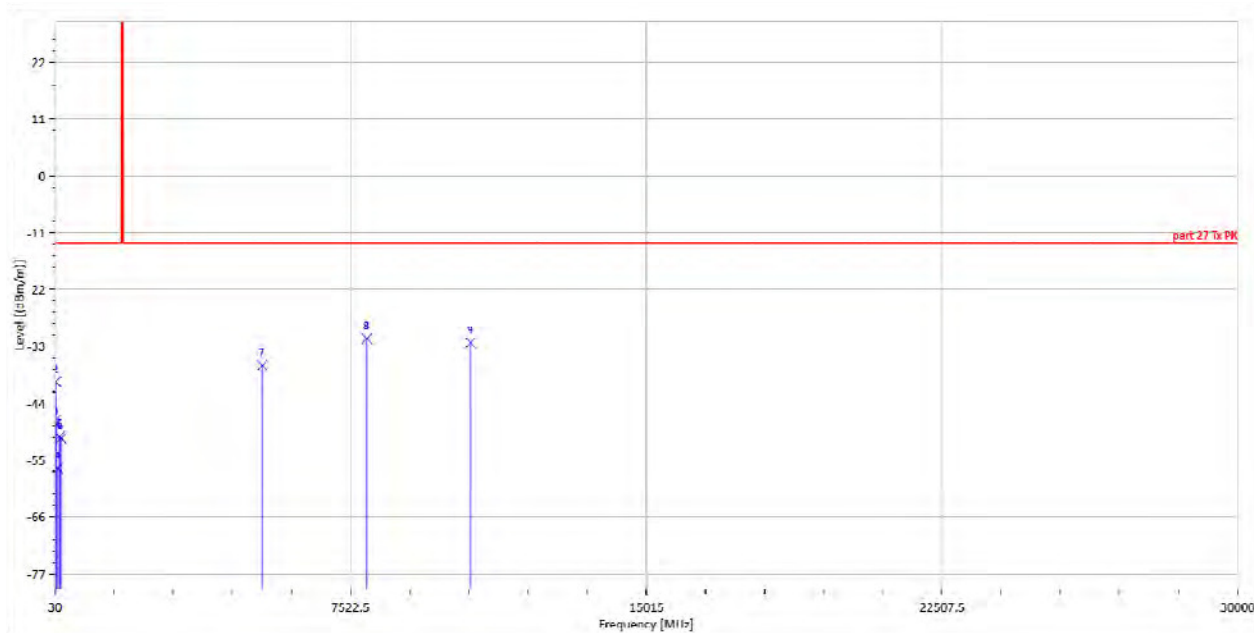
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Operation Mode : LTE_B41_BW_15M_QPSK_RB_1_0
Fundamental Frequency : 2647.5 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/8/10
Temp. / Humi. : 22.7deg_C/57RH
Test Engineer : Ashton
Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-47.40	-30.65	-16.04	-0.71	-25	-22.40
57.16	S	-39.85	-36.91	-2.06	-0.87	-25	-14.85
72.68	S	-47.97	-47.45	0.48	-1.01	-25	-22.97
96.93	S	-56.52	-54.75	-0.62	-1.15	-25	-31.52
145.43	S	-50.41	-50.76	1.89	-1.54	-25	-25.41
183.26	S	-50.79	-55.06	5.87	-1.60	-25	-25.79
5284.00	H	-36.66	-40.55	12.47	-8.58	-25	-11.66
7930.00	H	-31.48	-31.68	10.61	-10.41	-25	-6.48
10560.00	H	-32.33	-31.32	10.88	-11.88	-25	-7.33

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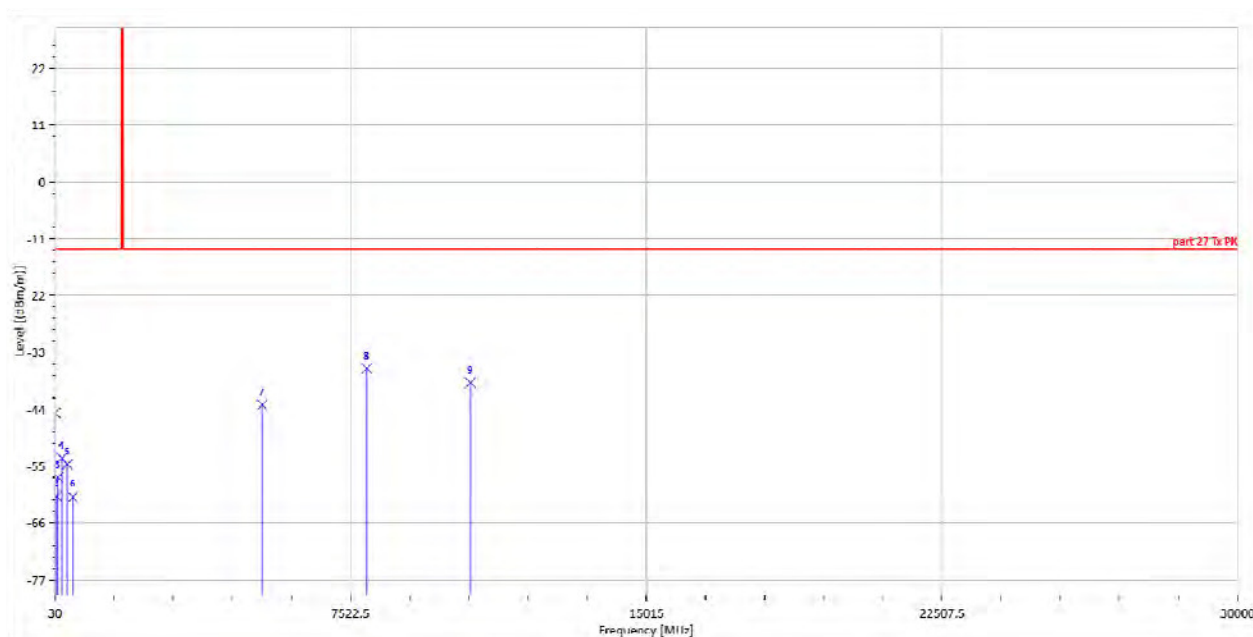
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Operation Mode :	LTE_B41_BW_15M_QPSK_RB_1_0	Test Date :	2016/8/10
Fundamental Frequency :	2647.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.88	S	-44.74	-27.17	-16.88	-0.68	-25	-19.74
70.74	S	-60.82	-60.22	0.43	-1.03	-25	-35.82
109.54	S	-57.25	-54.77	-1.25	-1.24	-25	-32.25
204.60	S	-53.50	-57.76	5.93	-1.67	-25	-28.50
343.31	S	-54.65	-58.25	5.90	-2.30	-25	-29.65
482.02	S	-61.04	-64.77	6.35	-2.62	-25	-36.04
5284.00	H	-43.14	-47.03	12.47	-8.58	-25	-18.14
7930.00	H	-36.13	-36.33	10.61	-10.41	-25	-11.13
10560.00	H	-38.85	-37.85	10.88	-11.88	-25	-13.85

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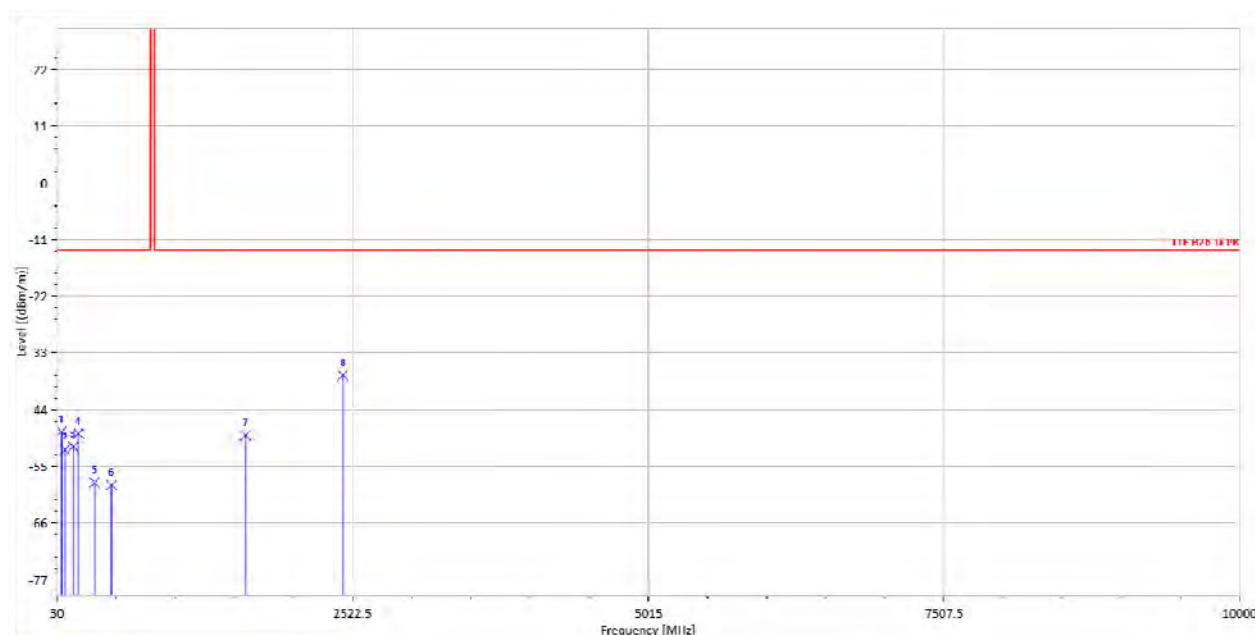
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode :	LTE_B26_Part90_BW_10M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
69.77	S	-48.25	-45.50	-1.77	-0.98	-13	-35.25
97.90	S	-51.76	-47.75	-2.85	-1.16	-13	-38.76
167.74	S	-51.14	-51.94	2.31	-1.51	-13	-38.14
210.42	S	-48.62	-50.85	3.93	-1.70	-13	-35.62
347.19	S	-58.16	-59.73	3.74	-2.18	-13	-45.16
489.78	S	-58.63	-60.16	4.22	-2.68	-13	-45.63
1621.00	H	-48.98	-50.95	6.66	-4.69	-13	-35.98
2440.00	H	-37.31	-39.73	8.21	-5.80	-13	-24.31

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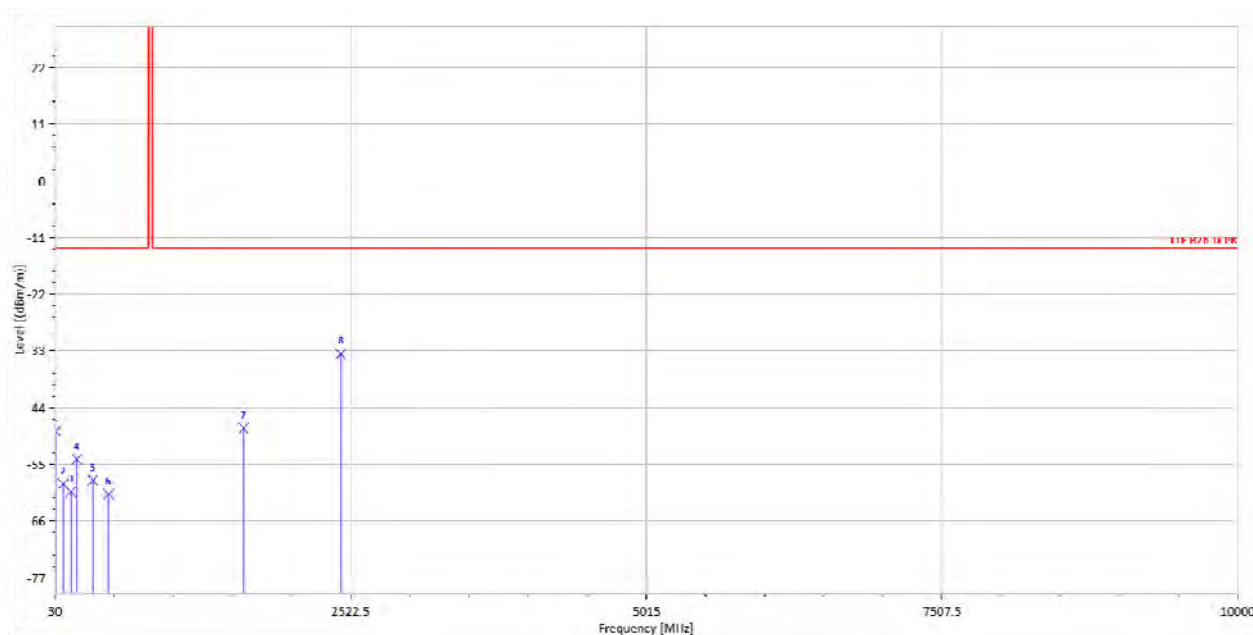
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Operation Mode :	LTE_B26_Part90_BW_10M_QPSK_RB_1_0	Test Date :	2016/7/21
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
36.79	S	-48.54	-31.22	-16.61	-0.71	-13	-35.54
100.81	S	-58.80	-54.55	-3.07	-1.17	-13	-45.80
164.83	S	-60.33	-60.79	1.99	-1.52	-13	-47.33
215.27	S	-54.02	-56.48	4.17	-1.71	-13	-41.02
350.10	S	-58.12	-59.79	3.74	-2.08	-13	-45.12
482.99	S	-60.76	-62.48	4.20	-2.48	-13	-47.76
1621.00	H	-47.99	-49.97	6.66	-4.69	-13	-34.99
2440.00	H	-33.57	-35.98	8.21	-5.80	-13	-20.57

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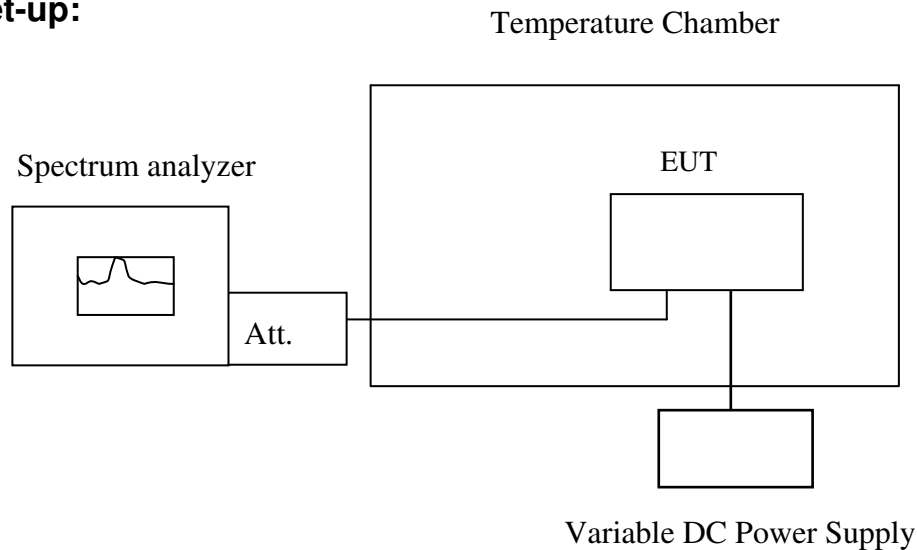
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11. FREQUENCY STABILITY MEASUREMENT

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

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	836600023	32	2091
3.85	20	836599991	0	2091
3.60	20	836600002	11	2091
3.50 (End point)	20	836600007	16	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	836600022	31	2091
3.85	40	836599990	-1	2091
3.85	30	836599986	-5	2091
3.85	20	836599991	0	2091
3.85	10	836600015	24	2091
3.85	0	836600022	31	2091
3.85	-10	836600006	15	2091
3.85	-20	836599994	3	2091
3.85	-30	836599985	-6	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	1880000021	15	4700
3.85	20	1880000006	0	4700
3.60	20	1880000014	8	4700
3.50 (End point)	20	1879999989	-17	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	1879999997	-9	4700
3.85	40	1880000006	0	4700
3.85	30	1880000009	3	4700
3.85	20	1880000006	0	4700
3.85	10	1879999984	-22	4700
3.85	0	1879999996	-10	4700
3.85	-10	1880000017	11	4700
3.85	-20	1880000009	3	4700
3.85	-30	1879999999	-7	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	1880000017	-7	4700
3.85	20	1880000024	0	4700
3.60	20	1879999981	-43	4700
3.50 (End point)	20	1879999987	-37	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	1880000014	-10	4700
3.85	40	1879999988	-36	4700
3.85	30	1879999988	-36	4700
3.85	20	1880000024	0	4700
3.85	10	1880000016	-8	4700
3.85	0	1879999997	-27	4700
3.85	-10	1879999984	-40	4700
3.85	-20	1879999987	-37	4700
3.85	-30	1879999985	-39	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	173259988	8	4331
3.85	20	173259980	0	4331
3.60	20	173260017	37	4331
3.50 (End point)	20	173260021	41	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	173260009	29	4331
3.85	40	173260021	41	4331
3.85	30	173260021	41	4331
3.85	20	173259980	0	4331
3.85	10	173259996	16	4331
3.85	0	173259990	10	4331
3.85	-10	173259989	9	4331
3.85	-20	173260008	28	4331
3.85	-30	173259993	13	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.43	20	836600002	18	2091
3.85	20	836599984	0	2091
3.60	20	836599975	-9	2091
3.50 (End Point)	20	836599997	13	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.85	50	836600019	35	2091
3.85	40	836600004	20	2091
3.85	30	836600003	19	2091
3.85	20	836599984	0	2091
3.85	10	836599980	-4	2091
3.85	0	836600020	36	2091
3.85	-10	836599998	14	2091
3.85	-20	836599977	-7	2091
3.85	-30	836599979	-5	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	1880.000026	67.70	4700	
3.85	25	1879.999958	0.00	4700	
3.60	25	1880.000015	56.70	4700	
3.5 (End Point)	25	1879.999973	14.70	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	1879.999958	-57.40	4700	
3.85	-20	1879.999969	-46.10	4700	
3.85	-10	1880.000018	3.00	4700	
3.85	0	1879.999976	-39.00	4700	
3.85	10	1879.999964	-50.70	4700	
3.85	20	1880.000015	0.00	4700	
3.85	30	1879.999972	-42.90	4700	
3.85	40	1880.000023	8.00	4700	
3.85	50	1879.999982	-32.60	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)			
4.43	25	1732.499960	-10.10	4331	
3.85	25	1732.499970	0.00	4331	
3.60	25	1732.500003	33.10	4331	
3.5 (End Point)	25	1732.499969	-1.30	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)			
3.85	-30	1732.499964	-56.70	4331	
3.85	-20	1732.500036	15.00	4331	
3.85	-10	1732.499968	-52.90	4331	
3.85	0	1732.500004	-16.80	4331	
3.85	10	1732.499967	-54.40	4331	
3.85	20	1732.500021	0.00	4331	
3.85	30	1732.499965	-55.90	4331	
3.85	40	1732.500012	-9.10	4331	
3.85	50	1732.500015	-5.70	4331	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	836.499960	-55.50	2091	
3.85	25	836.500015	0.00	2091	
3.60	25	836.499973	-42.60	2091	
3.5 (End Point)	25	836.499971	-44.60	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	836.499960	-6.80	2091	
3.85	-20	836.499965	-1.90	2091	
3.85	-10	836.500022	56.00	2091	
3.85	0	836.499973	6.40	2091	
3.85	10	836.500018	51.10	2091	
3.85	20	836.499966	0.00	2091	
3.85	30	836.499963	-3.10	2091	
3.85	40	836.499969	2.40	2091	
3.85	50	836.500002	35.40	2091	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	2534.999971	-31.10	6338	
3.85	25	2535.000002	0.00	6338	
3.60	25	2535.000006	3.80	6338	
3.5 (End Point)	25	2535.000009	7.10	6338	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	2535.000012	28.80	6338	
3.85	-20	2535.000013	29.60	6338	
3.85	-10	2534.999988	4.60	6338	
3.85	0	2534.999984	0.80	6338	
3.85	10	2535.000006	22.90	6338	
3.85	20	2534.999983	0.00	6338	
3.85	30	2534.999986	3.20	6338	
3.85	40	2534.999984	0.90	6338	
3.85	50	2534.999999	15.60	6338	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	707.500006	-6.70	1769	
3.85	25	707.500013	0.00	1769	
3.60	25	707.500003	-9.20	1769	
3.5 (End Point)	25	707.499982	-30.20	1769	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	707.499987	-21.10	1769	
3.85	-20	707.500001	-6.40	1769	
3.85	-10	707.499991	-16.20	1769	
3.85	0	707.499995	-12.50	1769	
3.85	10	707.500006	-2.10	1769	
3.85	20	707.500008	0.00	1769	
3.85	30	707.500005	-2.90	1769	
3.85	40	707.499996	-11.30	1769	
3.85	50	707.499998	-9.80	1769	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	710.000005	36.90	1775	
3.85	25	709.999968	0.00	1775	
3.60	25	710.000013	44.60	1775	
3.5 (End Point)	25	709.999969	1.20	1775	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.85	-30	709.999971	-34.50	1775	
3.85	-20	709.999971	-34.80	1775	
3.85	-10	710.000008	2.10	1775	
3.85	0	709.999978	-27.90	1775	
3.85	10	709.999963	-42.10	1775	
3.85	20	710.000006	0.00	1775	
3.85	30	710.000005	-0.90	1775	
3.85	40	709.999983	-22.50	1775	
3.85	50	709.999983	-22.80	1775	

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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)			
4.43	25	836.500003	4.70	2091	
3.85	25	836.499998	0.00	2091	
3.60	25	836.500010	11.80	2091	
3.5 (End Point)	25	836.500009	11.00	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)			
3.85	-30	836.500003	11.80	2091	
3.85	-20	836.499997	5.90	2091	
3.85	-10	836.499996	5.30	2091	
3.85	0	836.500003	11.80	2091	
3.85	10	836.500007	15.40	2091	
3.85	20	836.499991	0.00	2091	
3.85	30	836.500006	15.20	2091	
3.85	40	836.499995	4.30	2091	
3.85	50	836.499999	7.90	2091	

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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)			
4.43	25	2594.999988	-18.80	6488	
3.85	25	2595.000007	0.00	6488	
3.60	25	2594.999981	-25.80	6488	
3.5 (End Point)	25	2594.999983	-23.80	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)			
3.85	-30	2595.000024	55.10	6488	
3.85	-20	2595.000019	50.20	6488	
3.85	-10	2594.999972	3.20	6488	
3.85	0	2595.000006	36.90	6488	
3.85	10	2594.999970	0.80	6488	
3.85	20	2594.999969	0.00	6488	
3.85	30	2595.000005	36.40	6488	
3.85	40	2594.999979	10.30	6488	
3.85	50	2595.000011	41.80	6488	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B41 Mid Channel	2605.0	MHz	10M QPSK CH 40740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.43	25	2605.000014	3.10	6488	
3.85	25	2605.000011	0.00	6488	
3.60	25	2605.000016	5.30	6488	
3.5 (End Point)	25	2604.999983	-27.40	6488	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B41 Mid Channel	2605.0	MHz	10M QPSK CH 40740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.6	-30	2605.000003	26.90	6488	
3.6	-20	2605.000019	43.40	6488	
3.6	-10	2604.999974	-1.90	6488	
3.6	0	2604.999984	7.90	6488	
3.6	10	2605.000011	34.70	6488	
3.6	20	2604.999976	0.00	6488	
3.6	30	2605.000014	37.80	6488	
3.6	40	2604.999984	7.90	6488	
3.6	50	2604.999987	11.20	6488	

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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)			
4.43	25	819.000005	23.20	2048	
3.85	25	818.999982	0.00	2048	
3.60	25	819.000018	36.30	2048	
3.5 (End Point)	25	818.999993	10.90	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)			
3.85	-30	819.000003	-7.90	2048	
3.85	-20	819.000017	6.40	2048	
3.85	-10	818.999997	-13.90	2048	
3.85	0	819.000016	4.90	2048	
3.85	10	818.999991	-19.80	2048	
3.85	20	819.000011	0.00	2048	
3.85	30	819.000009	-2.20	2048	
3.85	40	819.000001	-9.40	2048	
3.85	50	819.000018	7.00	2048	

Note: The battery is rated 3.85V dc.

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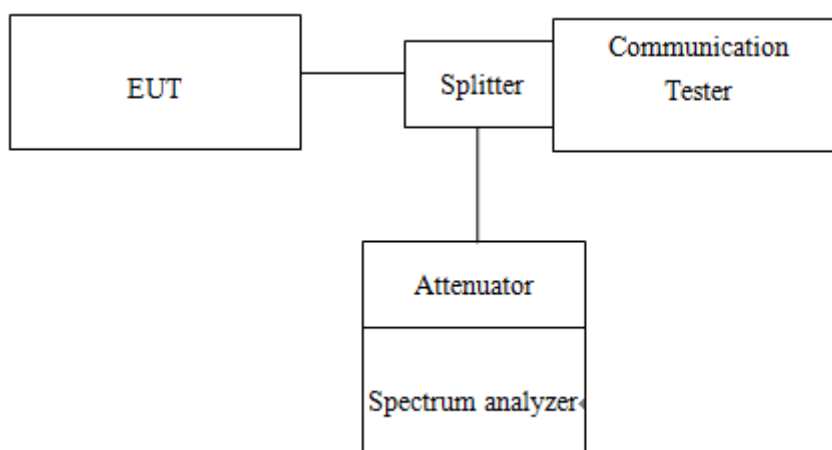
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average 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.

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12.4. Measurement Equipment Used

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

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
824.20	128	9.30	9.74	9.28
836.60	190	10.43	9.27	9.72
848.80	251	10.27	9.46	9.74

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
1850.20	9296	9.67	10.13	10.13
1880.00	9400	9.84	10.90	9.47
1909.80	9538	10.76	10.00	9.53

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	1312	3.20	3.83	4.09
1880.0	1413	3.61	3.91	4.11
1907.6	1513	3.71	3.89	3.86

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.81	2.84	2.81
1732.6	1413	2.98	3.00	2.99
1752.6	1513	3.12	3.15	3.15

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.57	3.56	3.71
836.60	4183	3.20	3.21	3.53
846.60	4233	3.28	3.27	3.65

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	5.87	13	1851.5	18615	6.02	13
1880.0	18900	5.78	13	1880.0	18900	5.84	13
1909.3	19193	5.61	13	1908.5	19185	5.86	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	5.85	13	1855.0	18650	5.95	13
1880.0	18900	5.79	13	1880.0	18900	5.98	13
1907.5	19175	5.71	13	1905.0	19150	5.89	13

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LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.77	13	1860.0	18700	7.07	13
1880.0	18900	6.84	13	1880.0	18900	7.15	13
1902.5	19125	6.77	13	1900.0	19100	7.14	13

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	5.32	13	1711.5	19965	5.72	13
1732.5	20175	5.84	13	1732.5	20175	5.94	13
1754.3	20393	5.98	13	1753.5	20385	6.02	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	5.51	13	1715.0	20000	5.72	13
1732.5	20175	5.73	13	1732.5	20175	5.90	13
1752.5	20375	5.93	13	1750.0	20350	5.96	13

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LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.64	13	1720.0	20050	7.08	13
1732.5	20175	6.68	13	1732.5	20175	6.98	13
1747.5	20325	6.67	13	1745.0	20300	7.10	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	5.82	13	825.5	20415	6.02	13
836.5	20525	5.93	13	836.5	20525	5.98	13
848.3	20643	5.84	13	847.5	20635	5.94	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	5.90	13	2505.0	20800	5.97	13
836.5	20525	5.87	13	2535.0	21100	5.92	13
846.5	20625	5.77	13	2565.0	21400	5.86	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	20775	5.43	13	2505.0	20800	5.61	13
2535.0	21100	5.69	13	2535.0	21100	5.81	13
2567.5	21425	5.79	13	2565.0	21400	5.98	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20425	6.64	13	2510.0	20850	7.09	13
2535.0	20525	6.62	13	2535.0	21100	6.97	13
2562.5	20625	6.82	13	2560.0	21350	7.25	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
699.7	23017	5.47	13	700.5	23025	6.17	13
707.5	23095	5.09	13	707.5	23095	6.06	13
715.3	23173	4.96	13	714.5	23165	5.97	13

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LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
701.5	23035	5.92	13	704.0	23060	4.86	13
707.5	23095	5.81	13	707.5	23095	4.97	13
713.5	23155	5.88	13	711.0	23130	5.01	13

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.13	13	709.0	23780	5.96	13
710.0	23790	5.27	13	710.0	23790	6.02	13
713.5	23825	5.10	13	711.0	23780	6.06	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	26797	5.69	13	825.5	26805	5.87	13
836.5	26915	5.77	13	836.5	26915	5.89	13
848.3	27033	5.83	13	847.5	27025	5.96	13

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LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	26815	5.73	13	829.0	26840	4.90	13
836.5	26915	5.75	13	836.5	26915	5.86	13
846.5	27015	5.81	13	844.0	26990	5.97	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)					
		16QAM	LIMIT				
831.5	26865	6.73	13				
836.5	26915	6.68	13				
841.5	26965	6.62	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2572.5	37775	9.54	13	2575.0	37800	10.96	13
2595.0	38000	10.65	13	2595.0	38000	10.23	13
2617.5	38225	11.13	13	2615.0	38200	10.22	13

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LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2577.5	37825	10.74	13	2580.0	37850	11.21	13
2595.0	38000	10.63	13	2595.0	38000	10.67	13
2612.5	38175	10.28	13	2610.0	38150	11.71	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2547.5	40165	10.25	13	2550.0	40190	12.09	13
2600.0	40690	10.73	13	2600.0	40690	11.86	13
2652.5	41215	10.34	13	2650.0	41190	10.98	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2552.5	40215	11.35	13	2555.0	40240	10.77	13
2600.0	40690	11.47	13	2600.0	40690	11.49	13
2647.5	41165	10.43	13	2645.0	41140	10.68	13

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LTE BAND 26 for Part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
814.7	26697	5.85	13	815.5	26705	5.94	13
819.0	26740	5.94	13	819.0	26740	5.93	13
823.3	26783	5.88	13	822.5	26775	5.99	13

LTE BAND 26 for Part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
816.5	26715	5.72	13	819.0	26740	5.95	13
819.0	26740	5.91	13				
821.5	26765	5.75	13				

Measurement Results:

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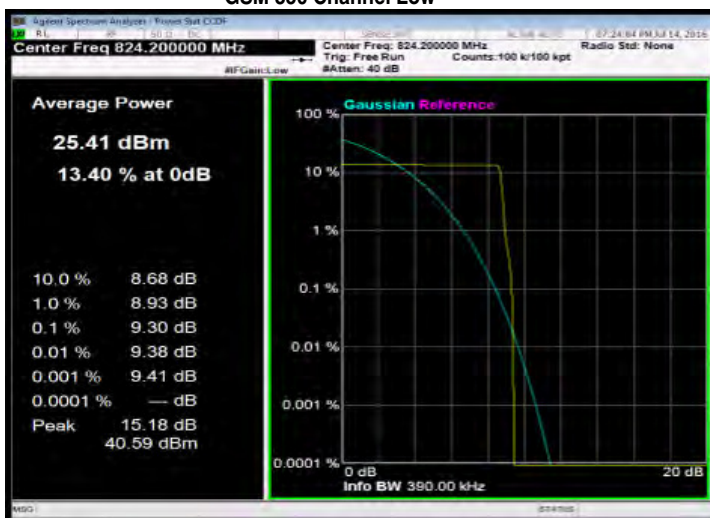
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GSM 850 Channel Low



GSM 1900 Channel Low



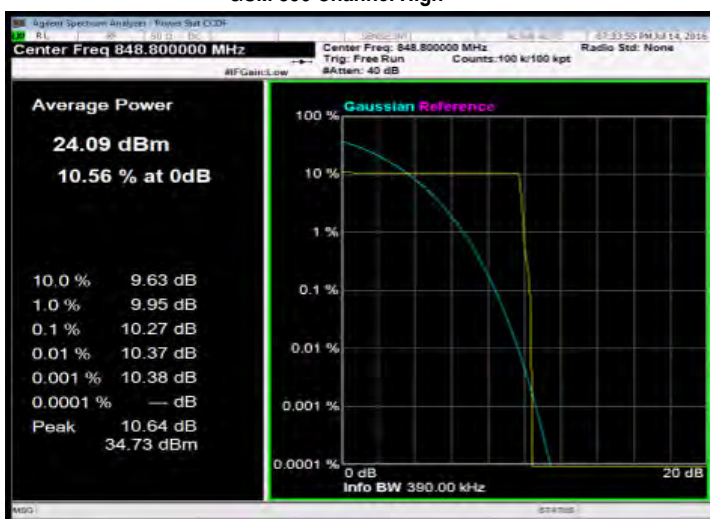
GSM 850 Channel Mid



GSM 1900 Channel Mid



GSM 850 Channel High



GSM 1900 Channel High



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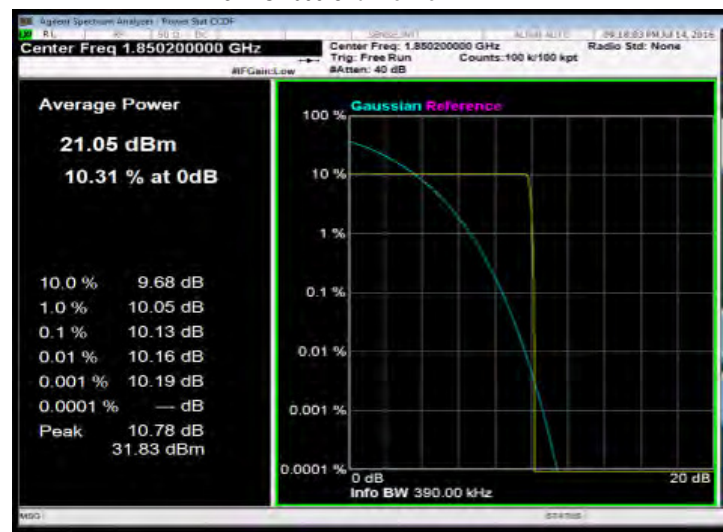
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GPFS 850 Channel Low



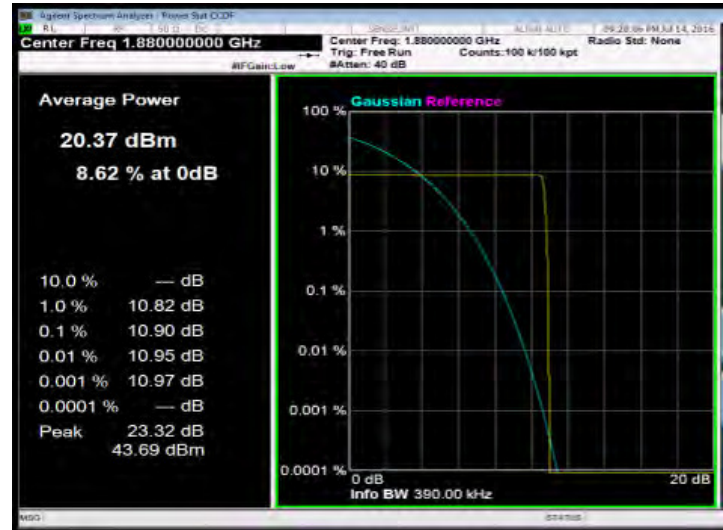
GPFS 1900 Channel Low



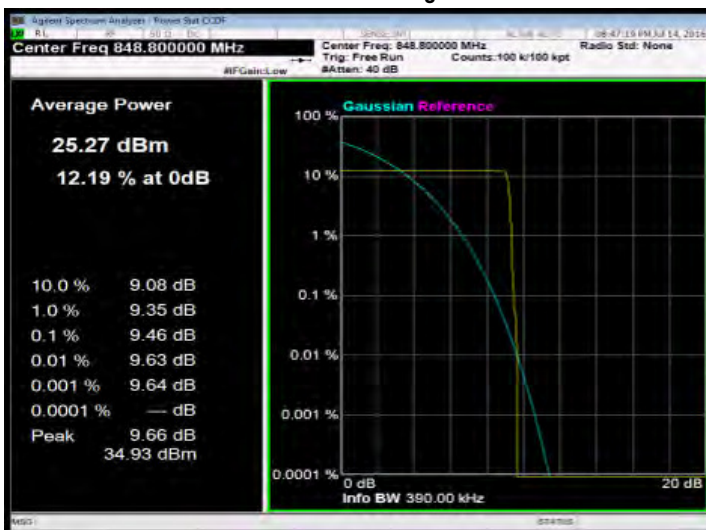
GPFS 850 Channel Mid



GPFS 1900 Channel Mid



GPFS 850 Channel High



GPFS 1900 Channel High



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EDGE 850 Channel Low



EDGE 1900 Channel Low



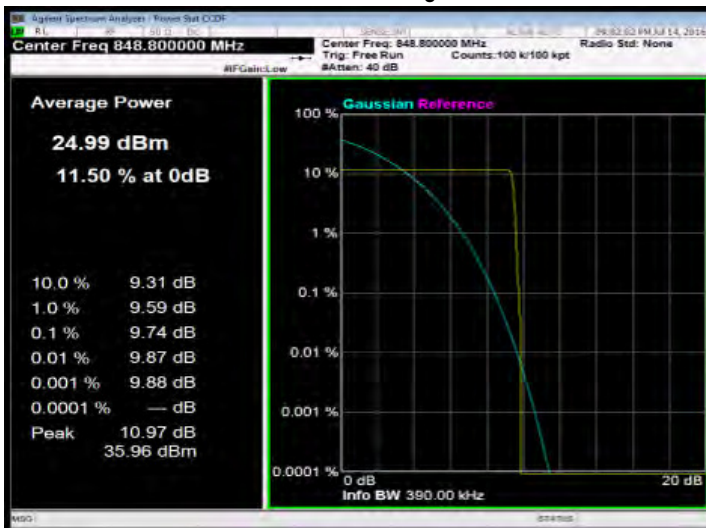
EDGE 850 Channel Mid



EDGE 1900 Channel Mid



EDGE 850 Channel High



EDGE 1900 Channel High



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WCDMA Band II Channel Low



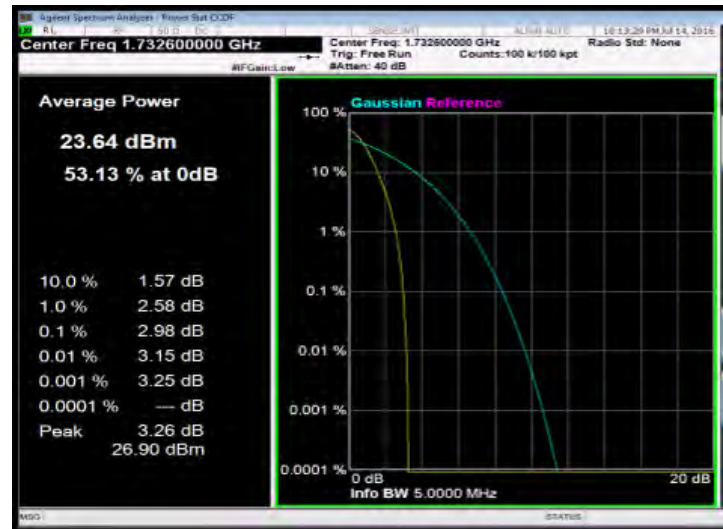
WCDMA Band IV Channel Low



WCDMA Band II Channel Mid



WCDMA Band IV Channel Mid



WCDMA Band II Channel High



WCDMA Band IV Channel High



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WCDMA Band V Channel Low



HSDPA Band II Channel Low



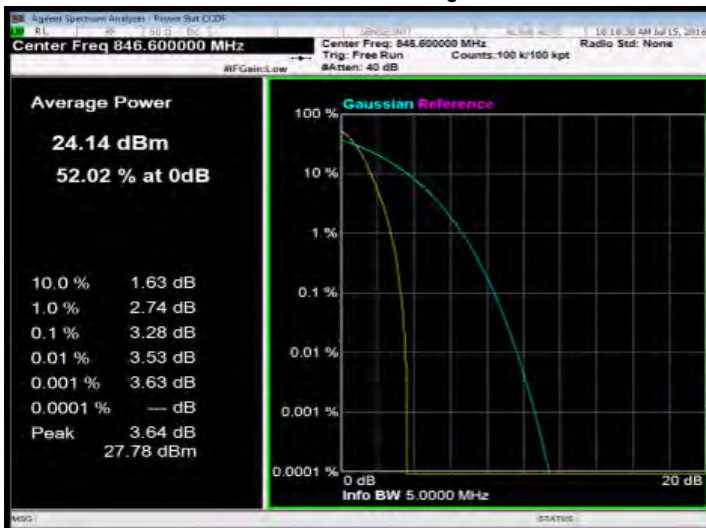
WCDMA Band V Channel Mid



HSDPA Band II Channel Mid



WCDMA Band V Channel High



HSDPA Band II Channel High



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HSDPA Band IV Channel Low



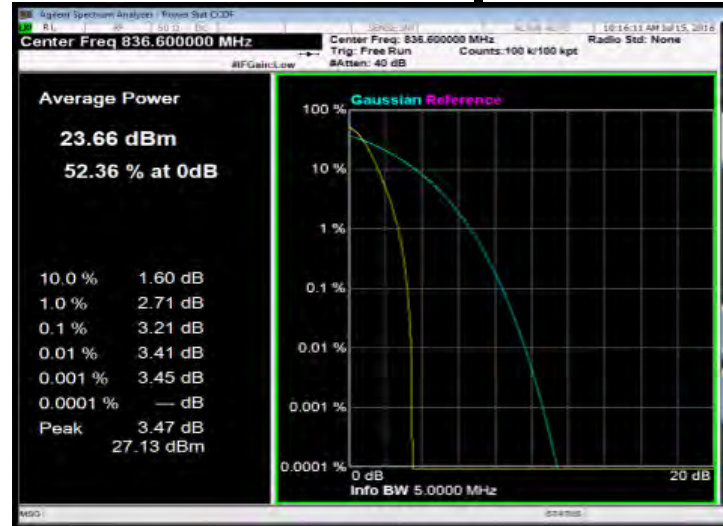
HSDPA Band V Channel Low



HSDPA Band IV Channel Mid



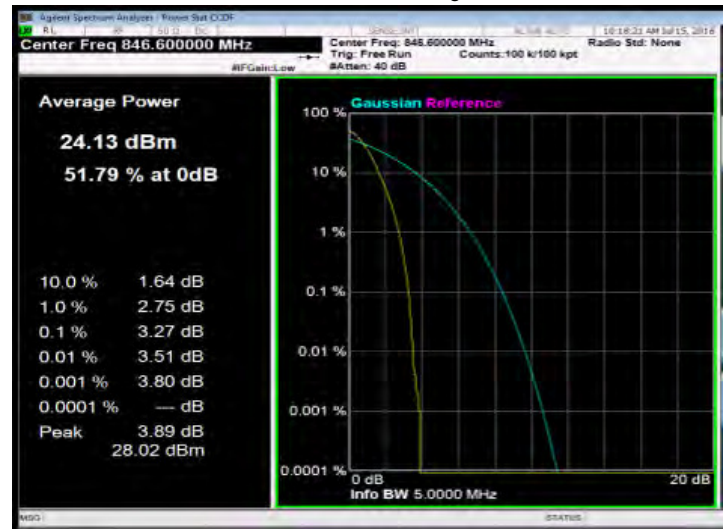
HSDPA Band V Channel Mid



HSDPA Band IV Channel High



HSDPA Band V Channel High



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HSUPA Band II Channel Low



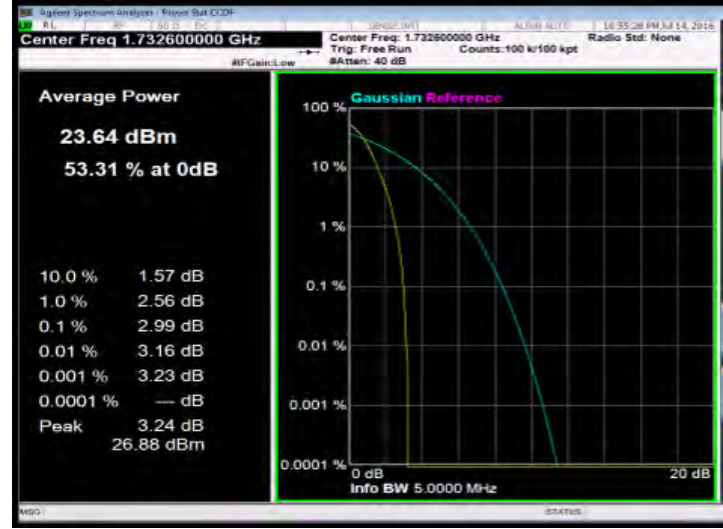
HSUPA Band IV Channel Low



HSUPA Band II Channel Mid



HSUPA Band IV Channel Mid



HSUPA Band II Channel High



HSUPA Band IV Channel High



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HSUPA Band V Channel Low



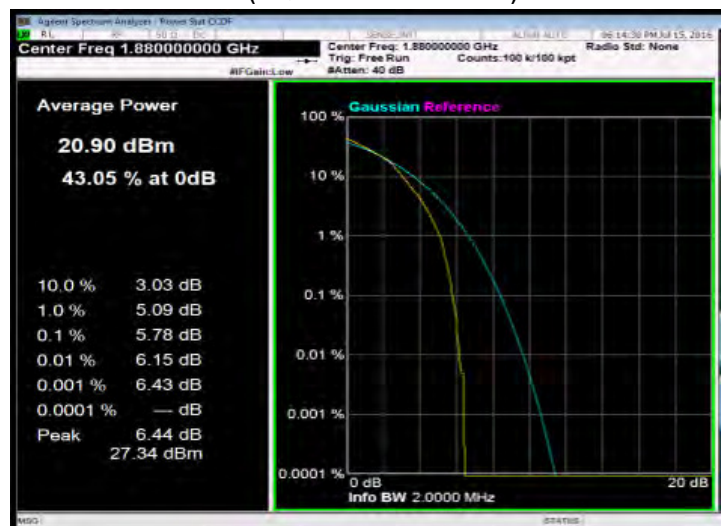
1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low



HSUPA Band V Channel Mid



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



HSUPA Band V Channel High



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



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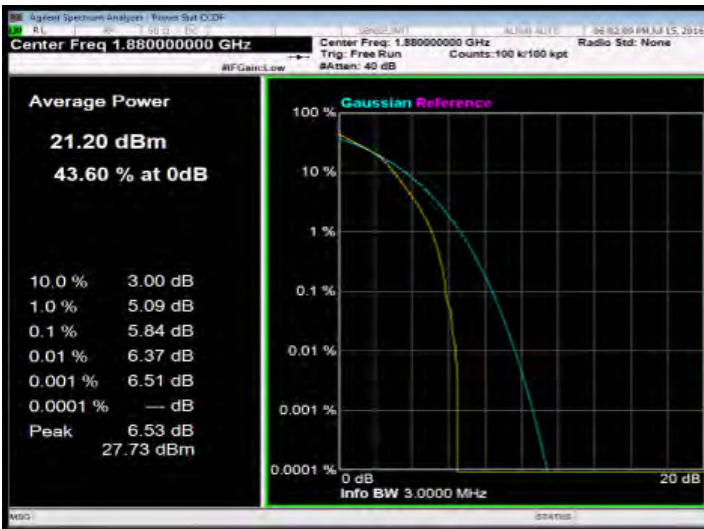
3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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



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



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



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



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



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



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



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



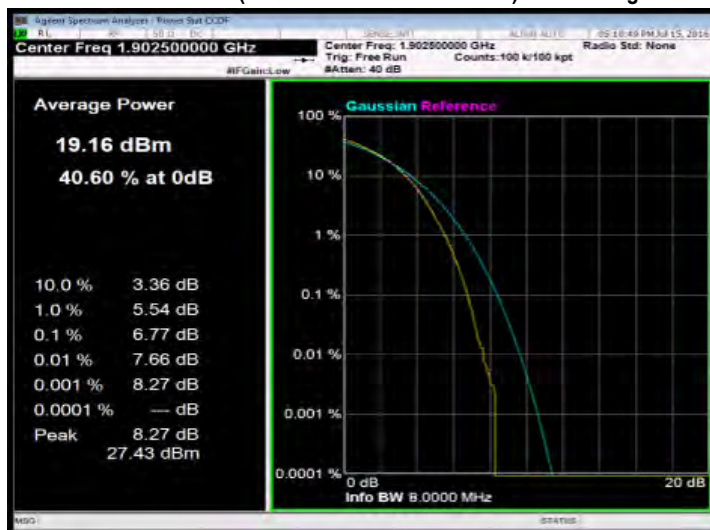
15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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



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



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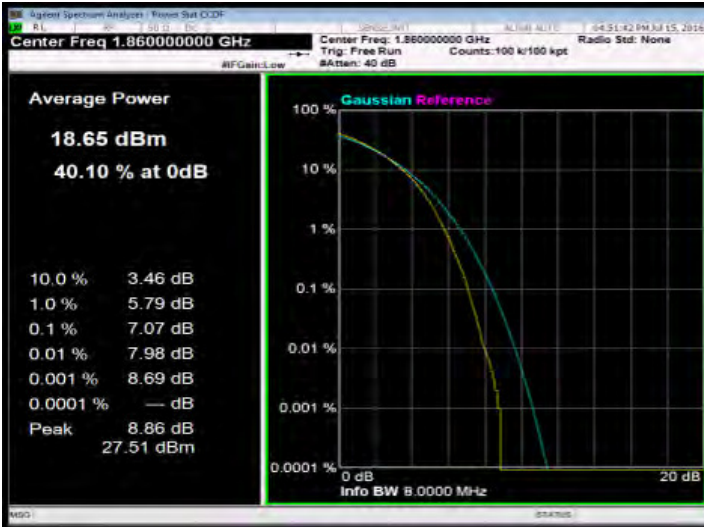
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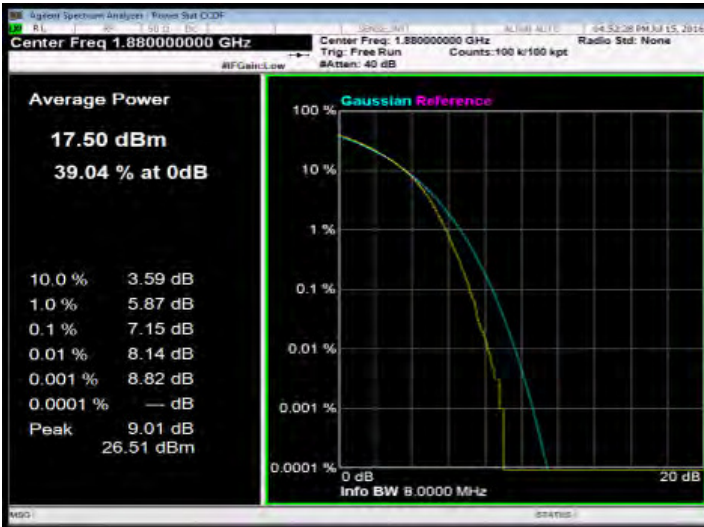
20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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



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



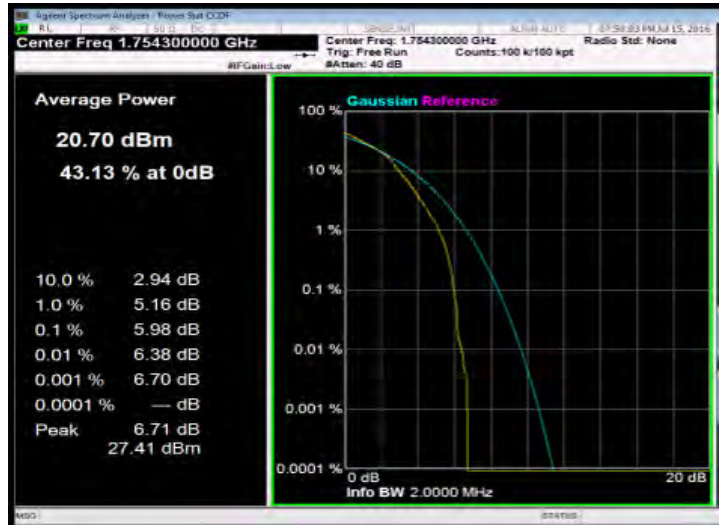
1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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



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



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



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



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



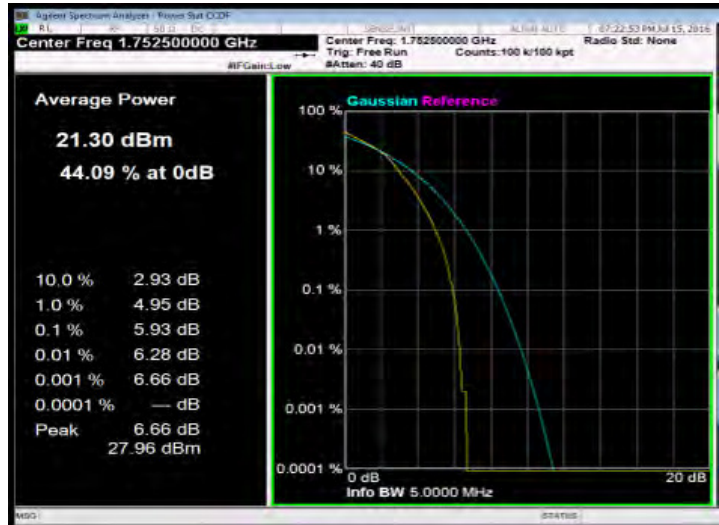
5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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



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



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