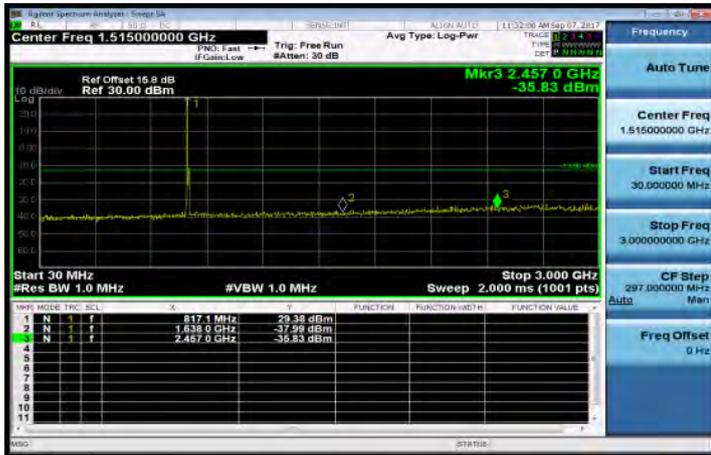
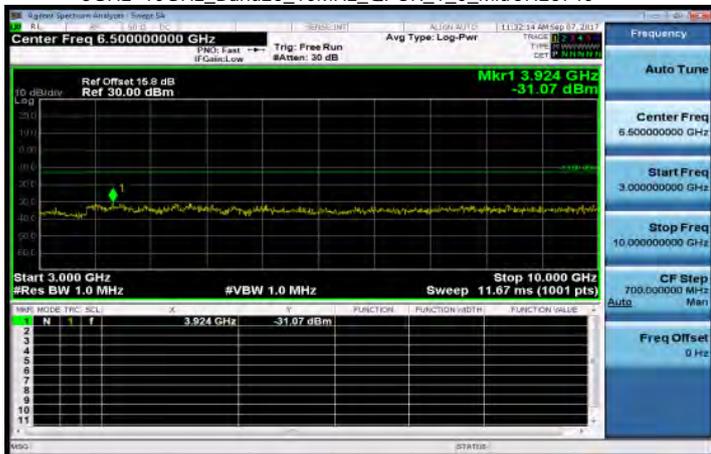


30MHz~3GHz_Band26_10MHz_QPSK_1_0_MidCH26740



3GHz~10GHz_Band26_10MHz_QPSK_1_0_MidCH26740



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

§27.53 (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.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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

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

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

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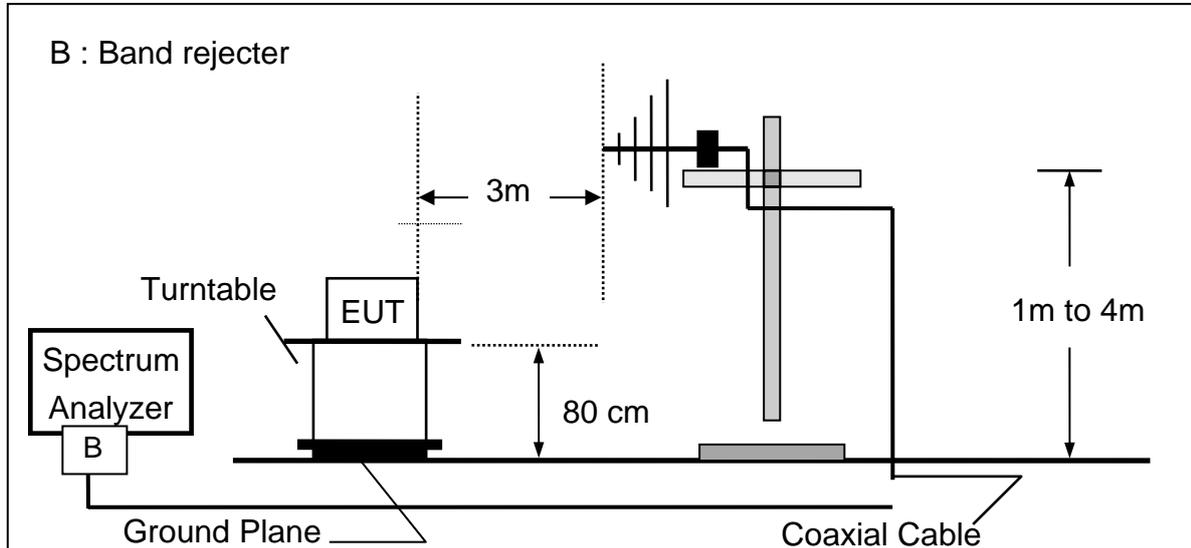
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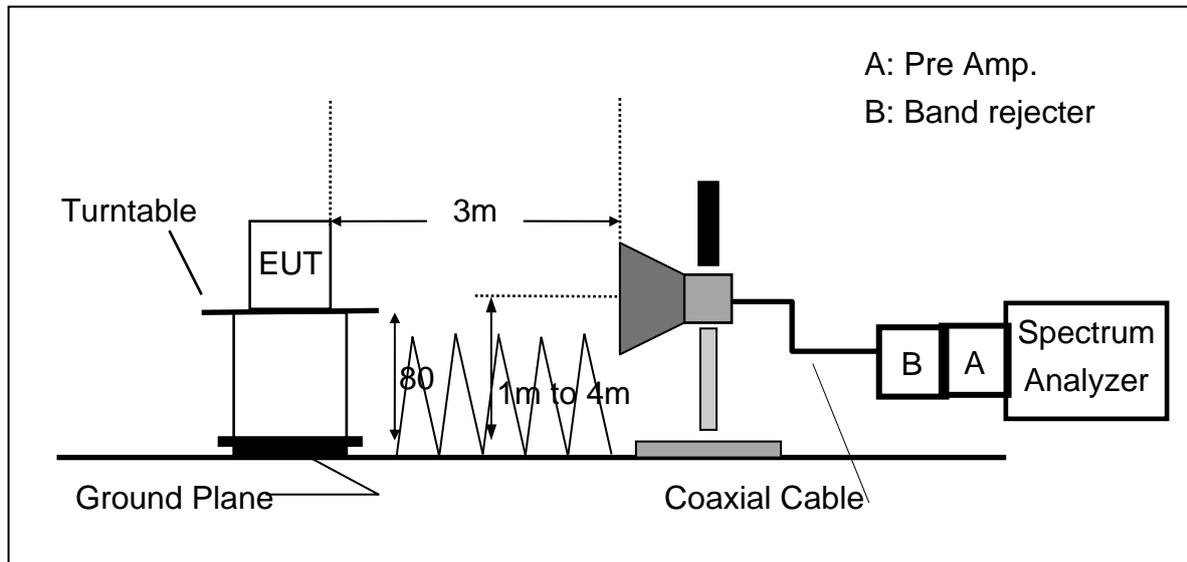
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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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	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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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.

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/02/2017	11/01/2018
Broadband Antenna	TESEQ	CBL 6112D	35243	11/08/2017	11/07/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/13/2017	11/12/2018

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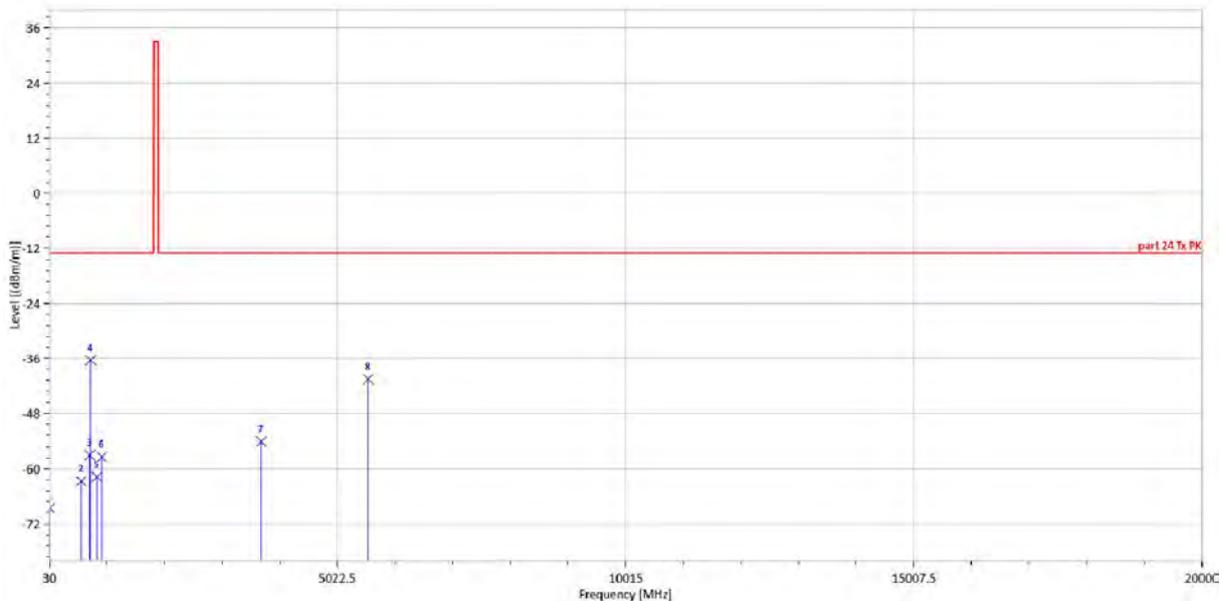
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode :	WCDMAB2	Test Date :	2017/9/8
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	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
31.94	S	-68.57	-48.96	-18.78	-0.83	-13.01	-55.56
579.99	S	-62.71	-66.01	6.79	-3.49	-13.01	-49.70
730.34	S	-57.08	-60.89	7.71	-3.90	-13.01	-44.07
746.83	S	-36.40	-40.18	7.71	-3.93	-13.01	-23.39
852.56	S	-61.75	-65.27	7.80	-4.28	-13.01	-48.74
939.86	S	-57.48	-60.93	7.95	-4.50	-13.01	-44.47
3704.80	H	-54.12	-57.64	12.42	-8.90	-13.01	-41.11
5557.20	H	-40.48	-43.16	13.01	-10.34	-13.01	-27.47

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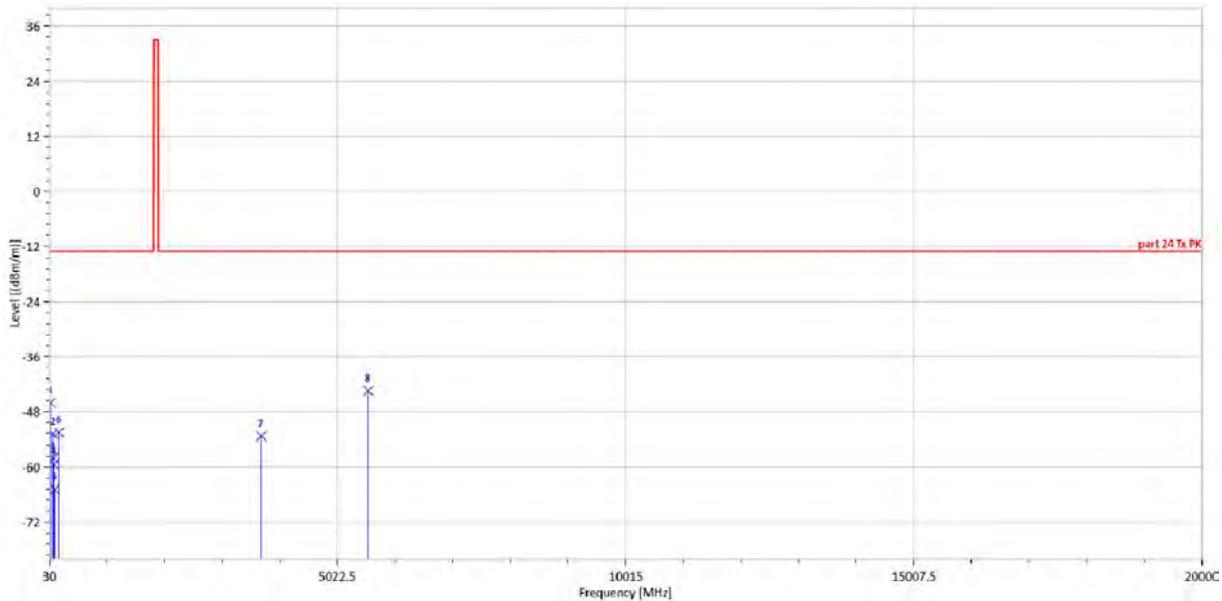
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Operation Mode :	WCDMAB2	Test Date :	2017/9/8
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	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	-46.04	-37.83	-7.30	-0.92	-13.01	-33.03
89.17	S	-52.82	-51.47	-0.06	-1.29	-13.01	-39.81
99.84	S	-58.06	-55.41	-1.27	-1.38	-13.01	-45.05
106.63	S	-59.51	-56.55	-1.54	-1.43	-13.01	-46.50
124.09	S	-64.84	-62.42	-0.88	-1.54	-13.01	-51.83
197.81	S	-52.49	-56.27	5.76	-1.98	-13.01	-39.48
3704.80	H	-53.30	-56.82	12.42	-8.90	-13.01	-40.29
5557.20	H	-43.44	-46.11	13.01	-10.34	-13.01	-30.43

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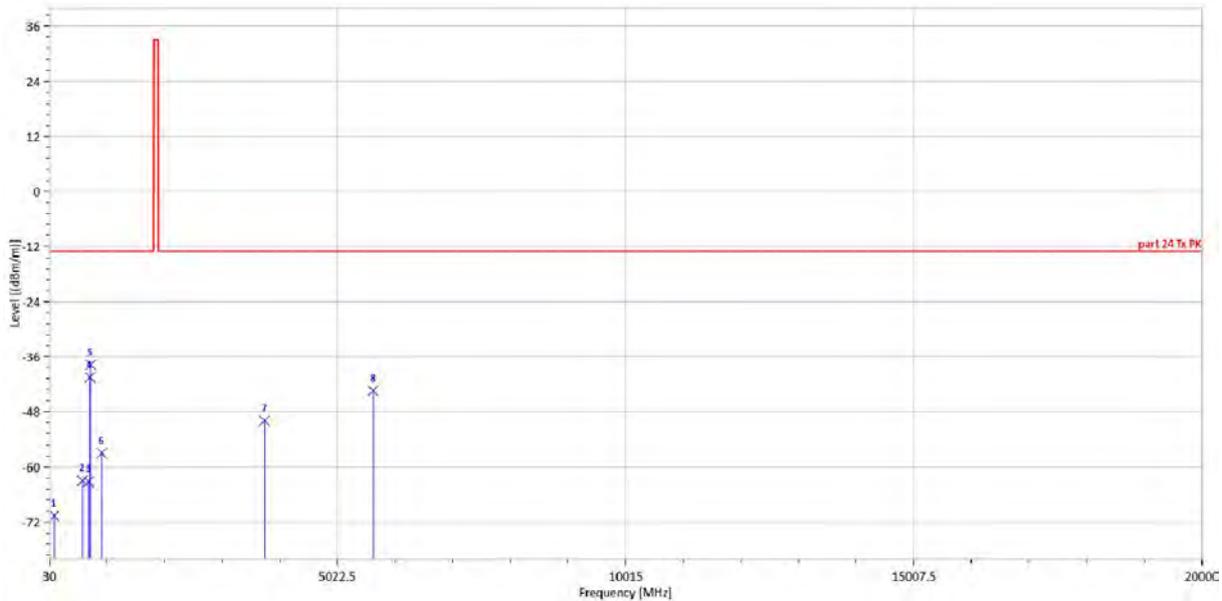
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Member of SGS Group

Operation Mode :	WCDMAB2	Test Date :	2017/9/8
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	Gain	Loss	@3m	dB
			dBm	dB	dB	dBm/m	
118.27	S	-70.63	-67.84	-1.29	-1.50	-13.01	-57.62
601.33	S	-62.98	-66.38	6.98	-3.57	-13.01	-49.97
709.97	S	-63.19	-67.05	7.71	-3.85	-13.01	-50.18
735.19	S	-40.47	-44.27	7.71	-3.91	-13.01	-27.46
746.83	S	-37.77	-41.55	7.71	-3.93	-13.01	-24.76
937.92	S	-56.98	-60.43	7.95	-4.49	-13.01	-43.97
3760.00	H	-49.95	-53.46	12.46	-8.94	-13.01	-36.94
5640.00	H	-43.42	-46.05	13.03	-10.40	-13.01	-30.41

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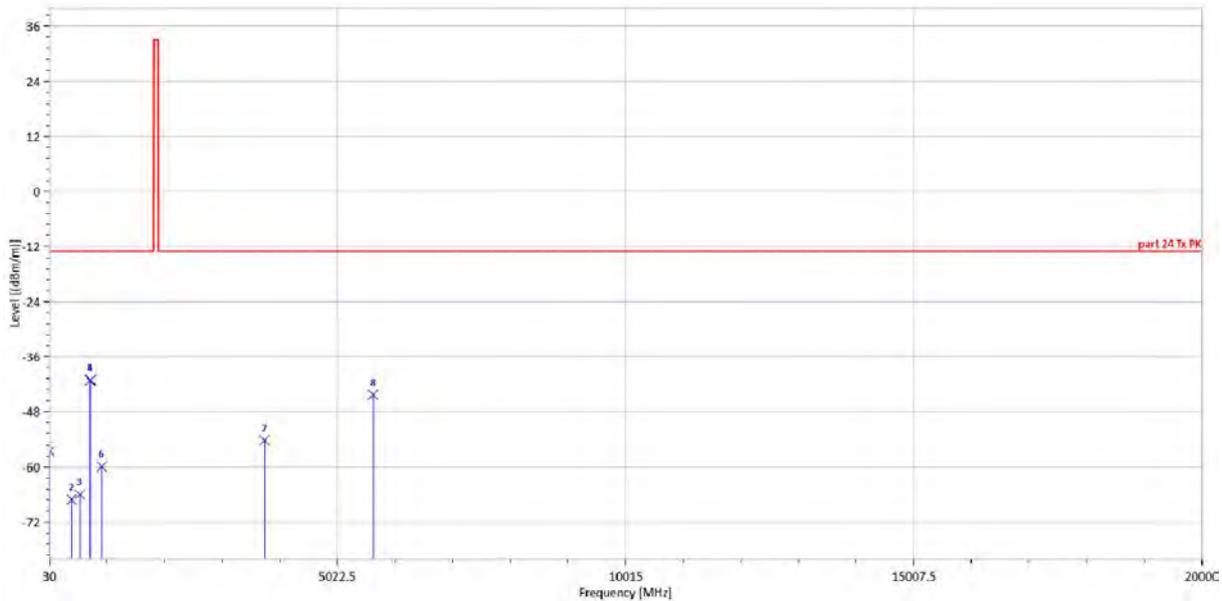
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Operation Mode :	WCDMAB2	Test Date :	2017/9/8
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
31.94	S	-56.58	-36.97	-18.78	-0.83	-13.01	-43.57
418.97	S	-67.08	-70.08	5.95	-2.95	-13.01	-54.07
558.65	S	-65.98	-69.15	6.60	-3.43	-13.01	-52.97
738.10	S	-41.20	-45.00	7.71	-3.91	-13.01	-28.19
746.83	S	-41.09	-44.87	7.71	-3.93	-13.01	-28.08
938.89	S	-59.95	-63.40	7.95	-4.50	-13.01	-46.94
3760.00	H	-54.23	-57.75	12.46	-8.94	-13.01	-41.22
5640.00	H	-44.30	-46.92	13.03	-10.40	-13.01	-31.29

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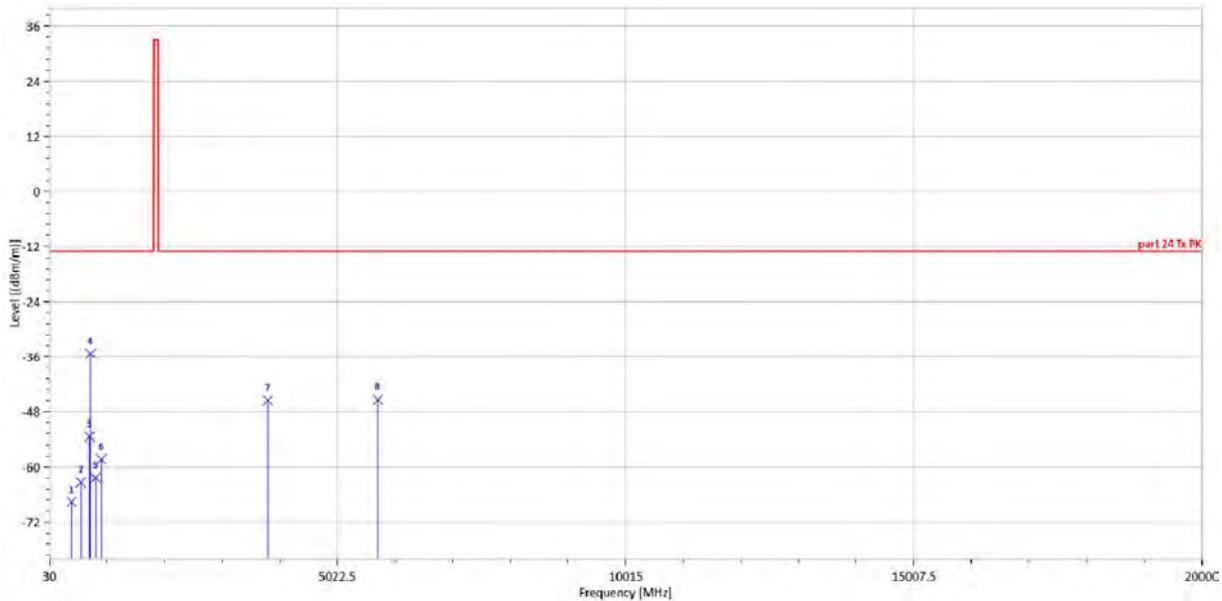
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Operation Mode :	WCDMAB2	Test Date :	2017/9/8
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dB	dB	dBm/m	
417.03	S	-67.62	-70.61	5.93	-2.94	-13.01	-54.61
577.08	S	-63.34	-66.63	6.76	-3.48	-13.01	-50.33
729.37	S	-53.40	-57.21	7.71	-3.90	-13.01	-40.39
746.83	S	-35.30	-39.09	7.71	-3.93	-13.01	-22.29
829.28	S	-62.37	-65.96	7.79	-4.20	-13.01	-49.36
934.04	S	-58.37	-61.83	7.94	-4.48	-13.01	-45.36
3815.20	H	-45.51	-49.02	12.49	-8.98	-13.01	-32.50
5722.80	H	-45.34	-47.92	13.04	-10.47	-13.01	-32.33

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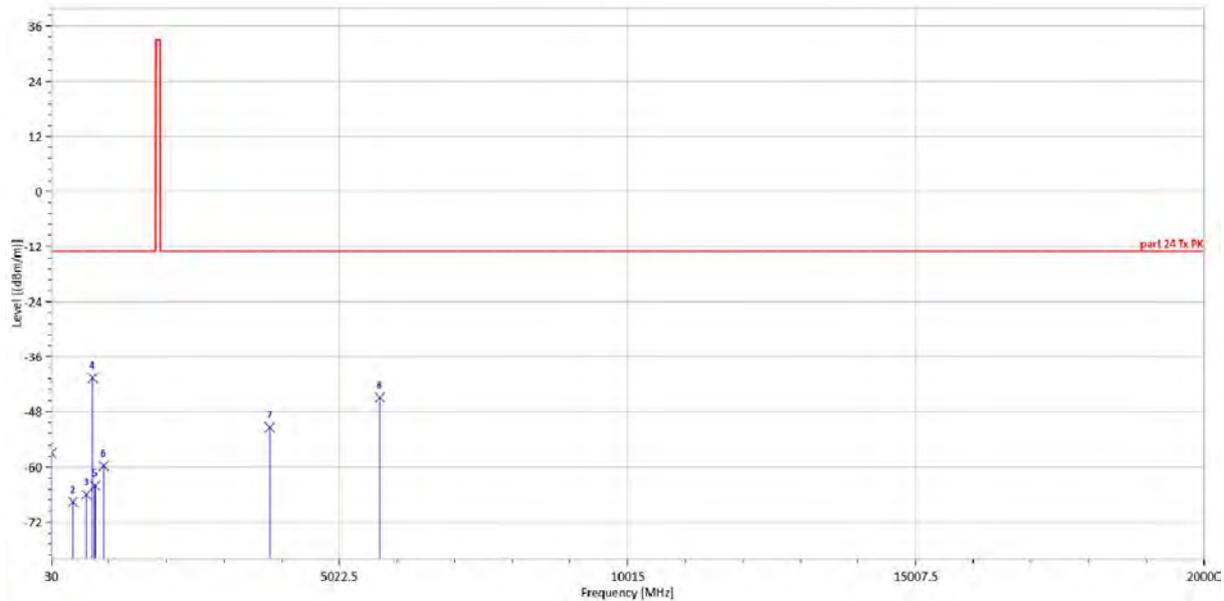
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Operation Mode :	WCDMAB2	Test Date :	2017/9/8
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	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	-56.95	-37.34	-18.78	-0.83	-13.01	-43.94
405.39	S	-67.62	-70.53	5.81	-2.90	-13.01	-54.61
636.25	S	-66.01	-69.46	7.11	-3.66	-13.01	-53.00
746.83	S	-40.61	-44.39	7.71	-3.93	-13.01	-27.60
787.57	S	-64.07	-67.75	7.76	-4.08	-13.01	-51.06
938.89	S	-59.80	-63.25	7.95	-4.50	-13.01	-46.79
3815.20	H	-51.40	-54.91	12.49	-8.98	-13.01	-38.39
5722.80	H	-44.86	-47.43	13.04	-10.47	-13.01	-31.85

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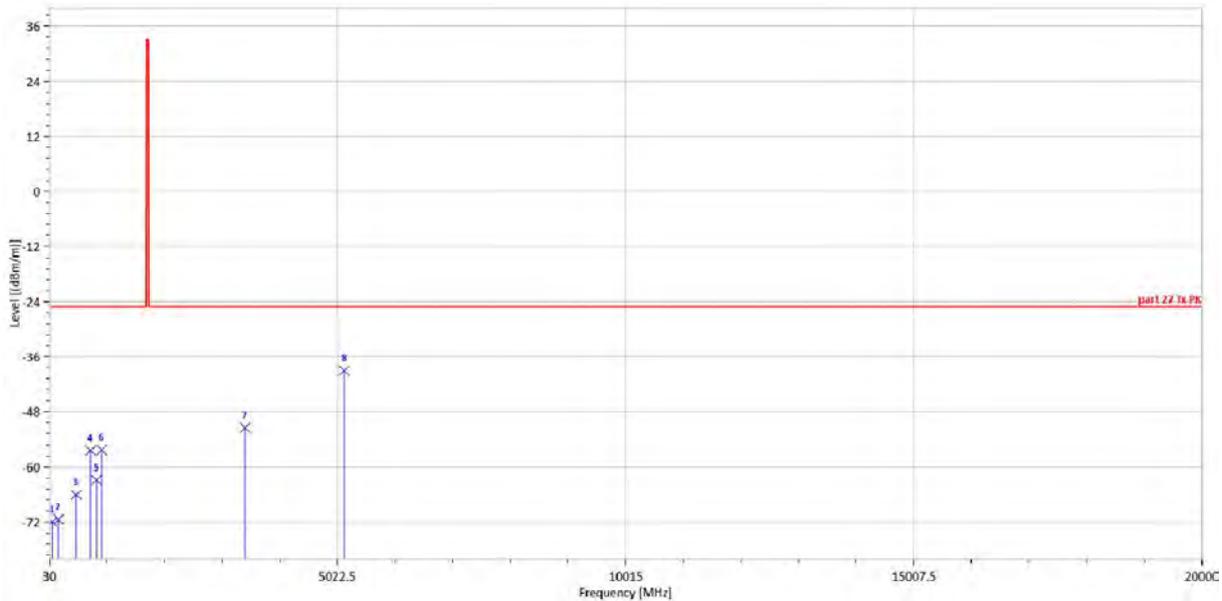
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
80.44	S	-71.93	-71.16	0.45	-1.22	-25	-46.93
189.08	S	-71.41	-75.32	5.84	-1.93	-25	-46.41
497.54	S	-66.05	-69.31	6.48	-3.22	-25	-41.05
746.83	S	-56.45	-60.23	7.71	-3.93	-25	-31.45
845.77	S	-62.86	-66.39	7.80	-4.26	-25	-37.86
938.89	S	-56.31	-59.77	7.95	-4.50	-25	-31.31
3424.80	H	-51.45	-54.90	12.15	-8.70	-25	-26.45
5137.20	H	-39.02	-41.63	12.64	-10.03	-25	-14.02

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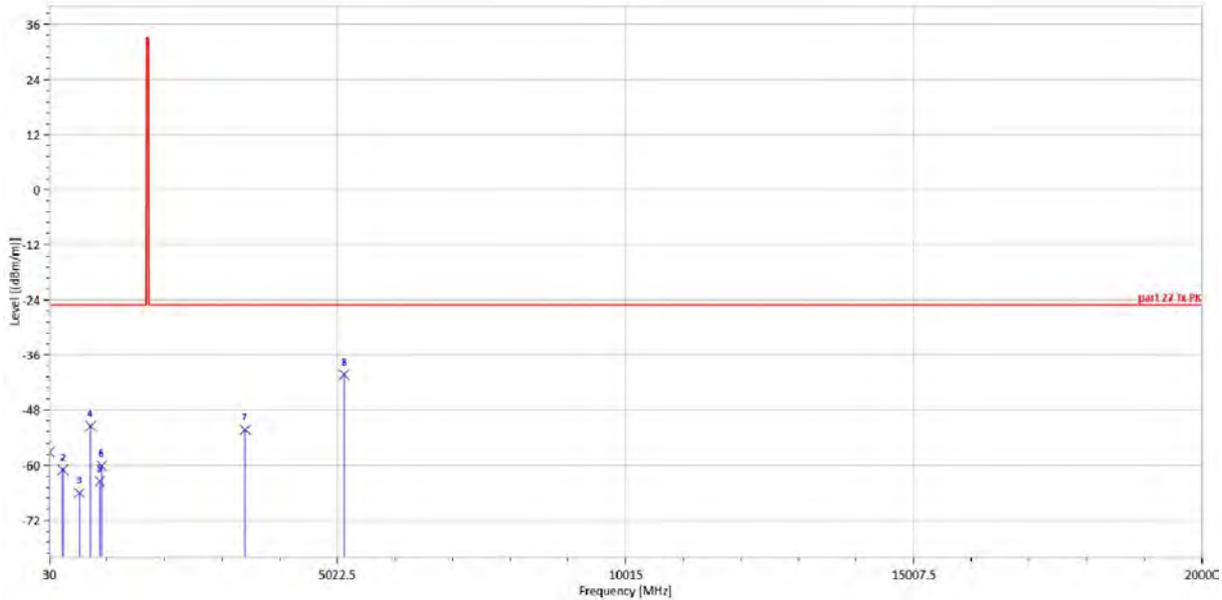
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Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
31.94	S	-57.11	-37.51	-18.78	-0.83	-25	-32.11
265.71	S	-60.99	-63.64	4.98	-2.32	-25	-35.99
549.92	S	-66.04	-69.15	6.52	-3.41	-25	-41.04
746.83	S	-51.46	-55.25	7.71	-3.93	-25	-26.46
903.97	S	-63.50	-66.98	7.90	-4.42	-25	-38.50
939.86	S	-60.22	-63.67	7.95	-4.50	-25	-35.22
3424.80	H	-52.30	-55.75	12.15	-8.70	-25	-27.30
5137.20	H	-40.28	-42.89	12.64	-10.03	-25	-15.28

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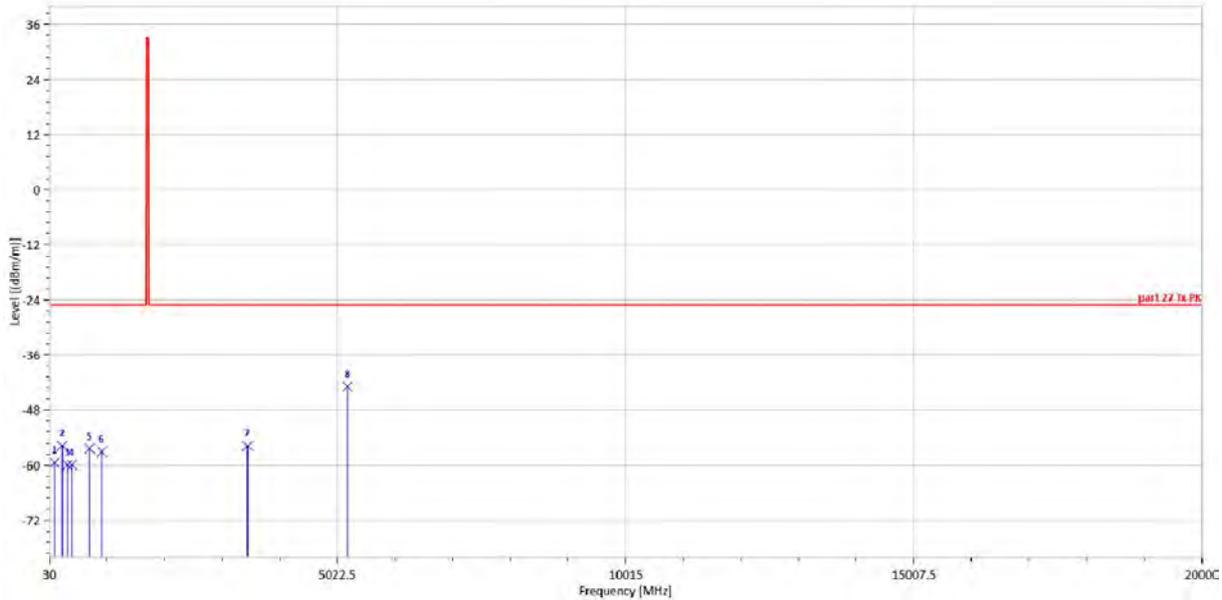
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Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
121.18	S	-59.45	-56.81	-1.11	-1.52	-25	-34.45
253.10	S	-55.79	-58.49	4.96	-2.27	-25	-30.79
341.37	S	-59.96	-63.28	5.97	-2.65	-25	-34.96
423.82	S	-59.93	-62.97	6.00	-2.96	-25	-34.93
729.37	S	-56.40	-60.21	7.71	-3.90	-25	-31.40
939.86	S	-57.07	-60.52	7.95	-4.50	-25	-32.07
3465.20	H	-55.82	-59.32	12.23	-8.73	-25	-30.82
5197.80	H	-42.89	-45.52	12.70	-10.07	-25	-17.89

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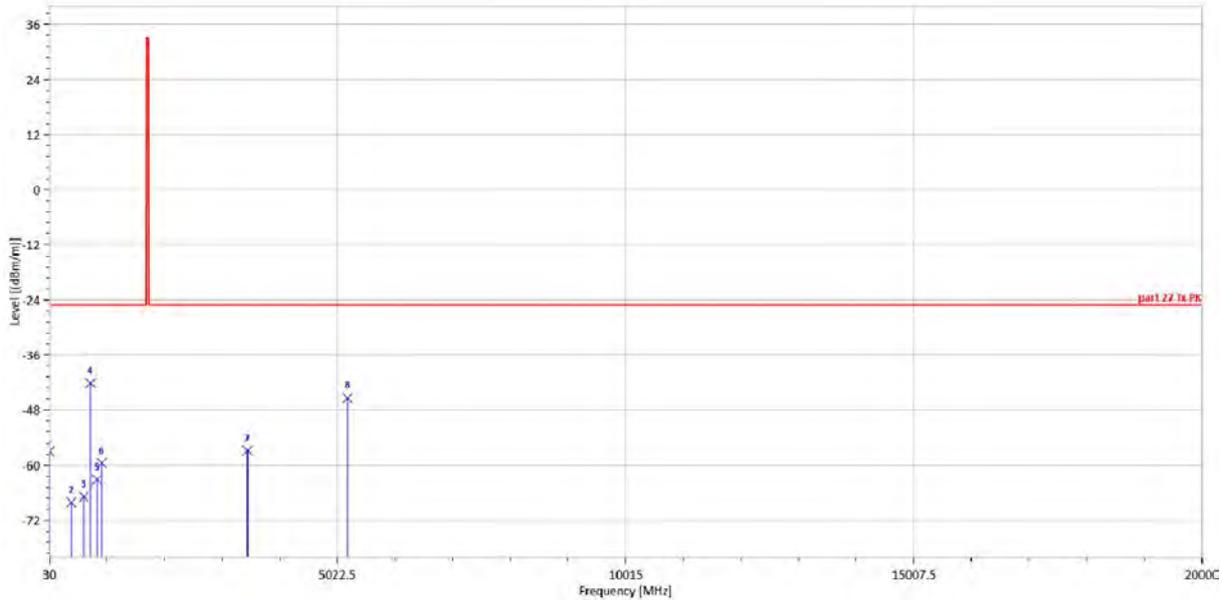
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Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
31.94	S	-56.98	-37.38	-18.78	-0.83	-25	-31.98
413.15	S	-68.08	-71.04	5.89	-2.93	-25	-43.08
627.52	S	-66.85	-70.29	7.08	-3.65	-25	-41.85
746.83	S	-42.15	-45.93	7.71	-3.93	-25	-17.15
856.44	S	-63.11	-66.63	7.81	-4.30	-25	-38.11
938.89	S	-59.56	-63.01	7.95	-4.50	-25	-34.56
3465.20	H	-56.82	-60.31	12.23	-8.73	-25	-31.82
5197.80	H	-45.35	-47.98	12.70	-10.07	-25	-20.35

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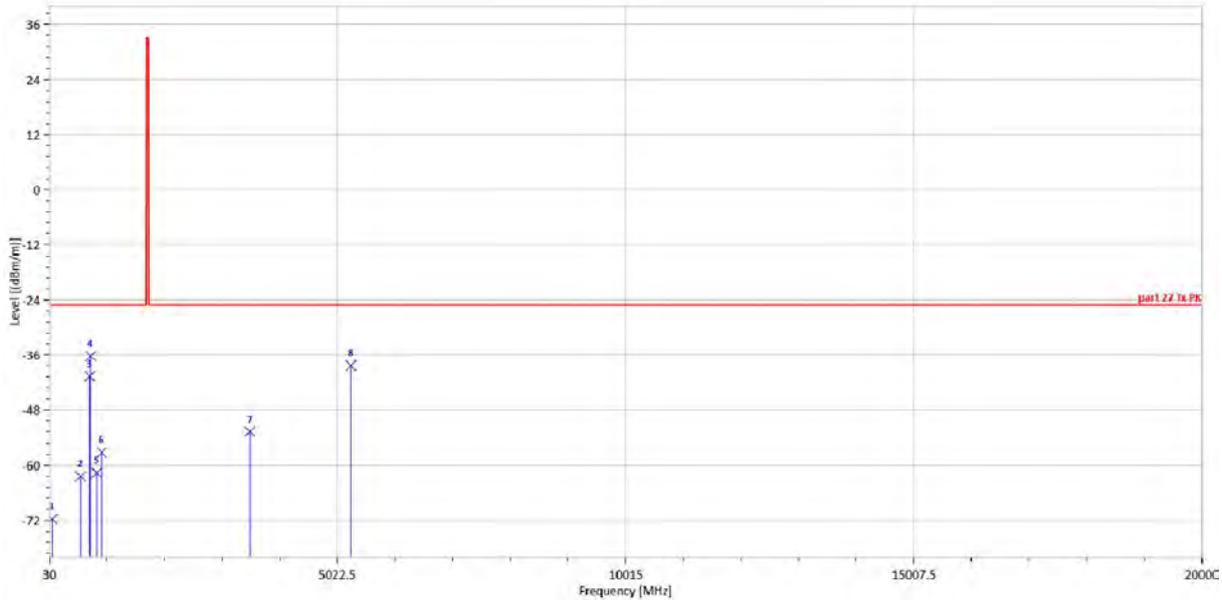
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Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
80.44	S	-71.70	-70.92	0.45	-1.22	-25	-46.70
571.26	S	-62.42	-65.67	6.71	-3.46	-25	-37.42
731.31	S	-40.64	-44.45	7.71	-3.90	-25	-15.64
746.83	S	-36.26	-40.04	7.71	-3.93	-25	-11.26
849.65	S	-61.67	-65.20	7.80	-4.27	-25	-36.67
938.89	S	-57.24	-60.69	7.95	-4.50	-25	-32.24
3505.20	H	-52.72	-56.26	12.30	-8.76	-25	-27.72
5257.80	H	-38.29	-40.94	12.76	-10.11	-25	-13.29

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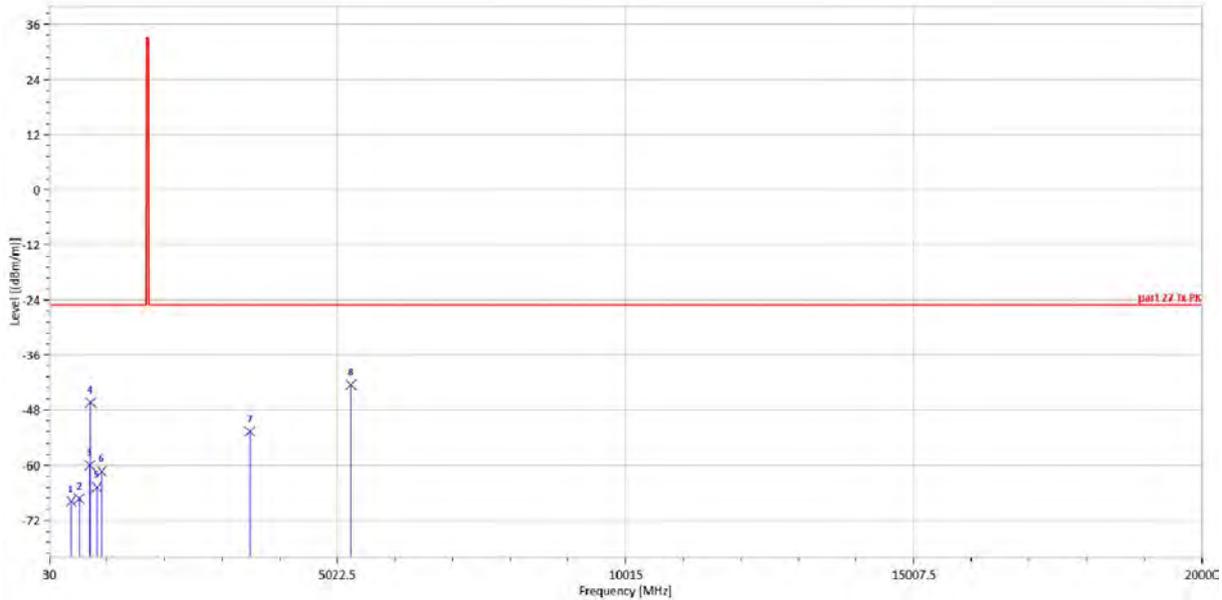
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Operation Mode :	HSDPAB4	Test Date :	2017/9/8
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
409.27	S	-67.80	-70.74	5.85	-2.92	-25	-42.80
547.98	S	-67.26	-70.38	6.52	-3.40	-25	-42.26
733.25	S	-60.04	-63.85	7.71	-3.90	-25	-35.04
745.86	S	-46.37	-50.15	7.71	-3.93	-25	-21.37
853.53	S	-64.78	-68.30	7.81	-4.28	-25	-39.78
938.89	S	-61.33	-64.78	7.95	-4.50	-25	-36.33
3505.20	H	-52.69	-56.23	12.30	-8.76	-25	-27.69
5257.80	H	-42.50	-45.15	12.76	-10.11	-25	-17.50

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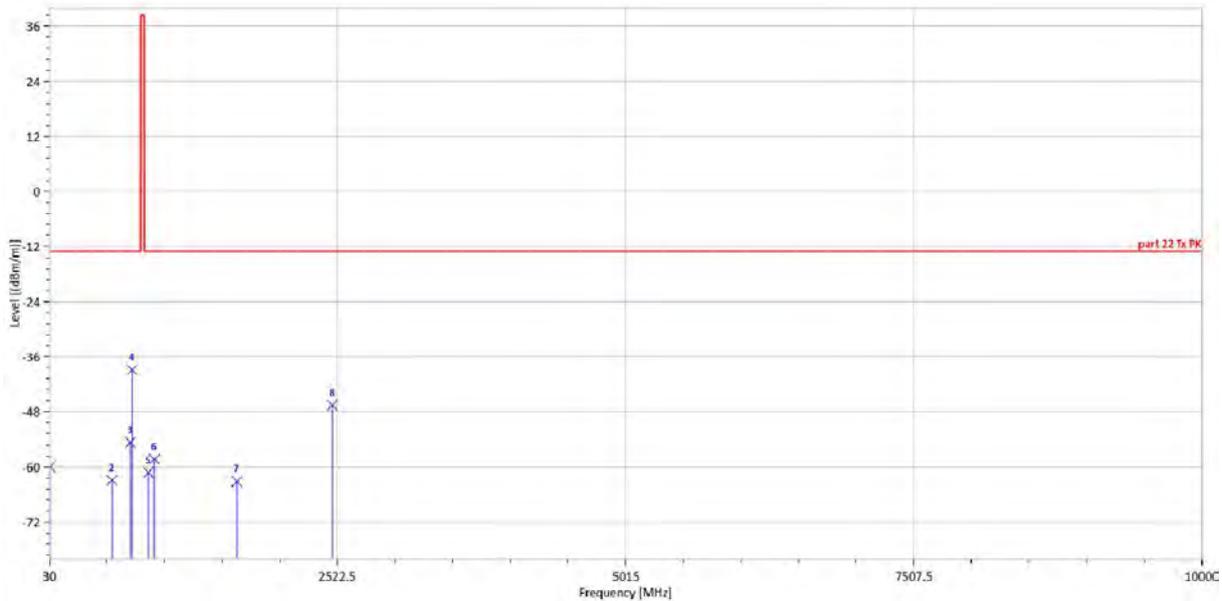
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode :	WCDMA B5	Test Date :	2017/9/8
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
35.82	S	-59.92	-41.59	-17.49	-0.84	-13	-46.92
572.23	S	-62.87	-63.53	4.13	-3.47	-13	-49.87
730.34	S	-54.66	-55.88	5.12	-3.90	-13	-41.66
746.83	S	-38.86	-40.08	5.15	-3.93	-13	-25.86
887.48	S	-61.23	-62.04	5.19	-4.38	-13	-48.23
938.89	S	-58.32	-59.19	5.37	-4.50	-13	-45.32
1652.80	H	-63.15	-63.28	6.59	-6.46	-13	-50.15
2479.20	H	-46.55	-47.27	8.53	-7.81	-13	-33.55

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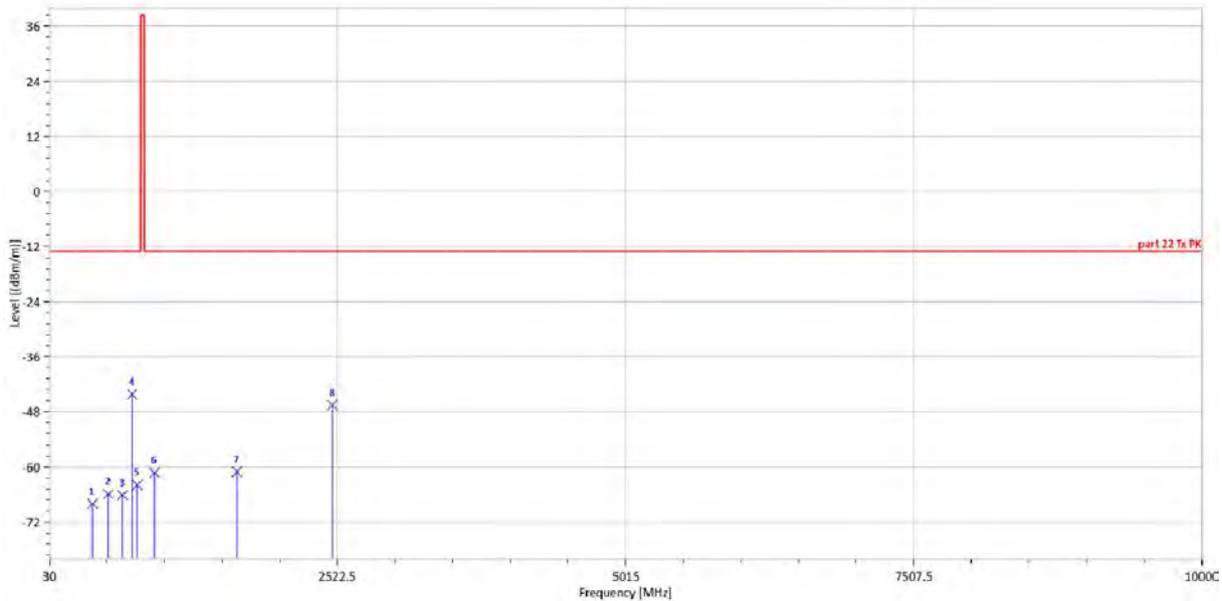
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Operation Mode :	WCDMA B5	Test Date :	2017/9/8
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
403.45	S	-67.98	-68.32	3.23	-2.89	-13	-54.98
541.19	S	-65.91	-66.51	3.98	-3.38	-13	-52.91
663.41	S	-66.13	-67.14	4.74	-3.73	-13	-53.13
746.83	S	-44.16	-45.39	5.15	-3.93	-13	-31.16
791.45	S	-63.89	-65.01	5.21	-4.09	-13	-50.89
939.86	S	-61.28	-62.15	5.38	-4.50	-13	-48.28
1652.80	H	-61.07	-61.20	6.59	-6.46	-13	-48.07
2479.20	H	-46.52	-47.24	8.53	-7.81	-13	-33.52

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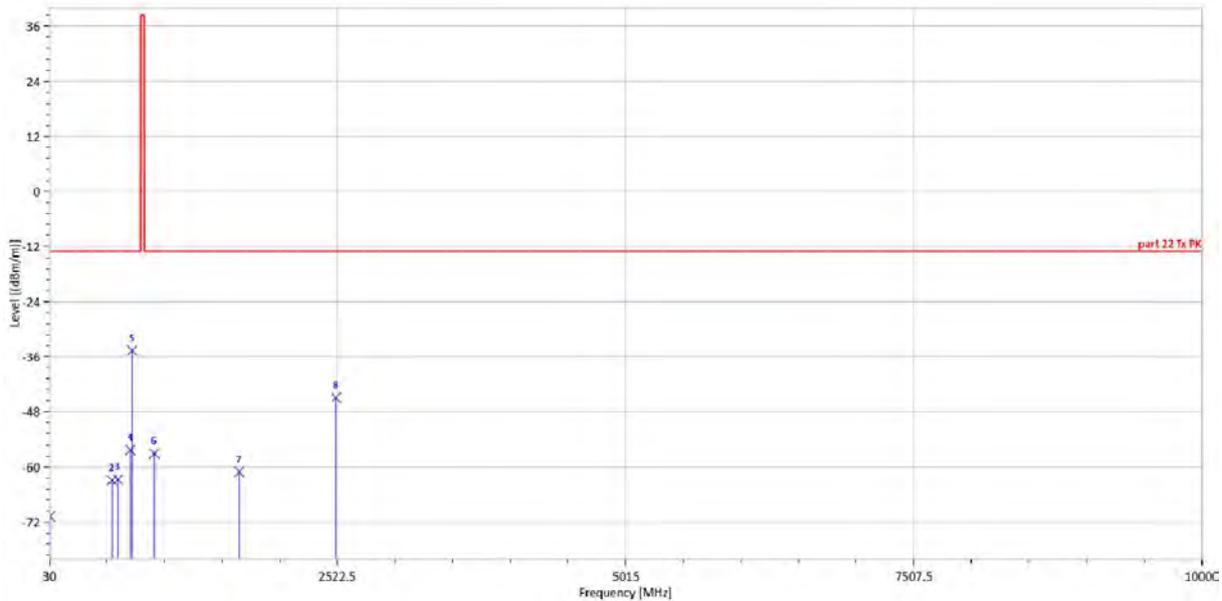
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Operation Mode :	WCDMA B5	Test Date :	2017/9/8
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
35.82	S	-70.77	-52.43	-17.49	-0.84	-13	-57.77
572.23	S	-62.92	-63.58	4.13	-3.47	-13	-49.92
624.61	S	-62.72	-63.55	4.47	-3.64	-13	-49.72
730.34	S	-56.34	-57.56	5.12	-3.90	-13	-43.34
746.83	S	-34.63	-35.85	5.15	-3.93	-13	-21.63
938.89	S	-57.10	-57.97	5.37	-4.50	-13	-44.10
1673.20	H	-61.08	-61.25	6.68	-6.50	-13	-48.08
2509.80	H	-44.93	-45.65	8.56	-7.84	-13	-31.93

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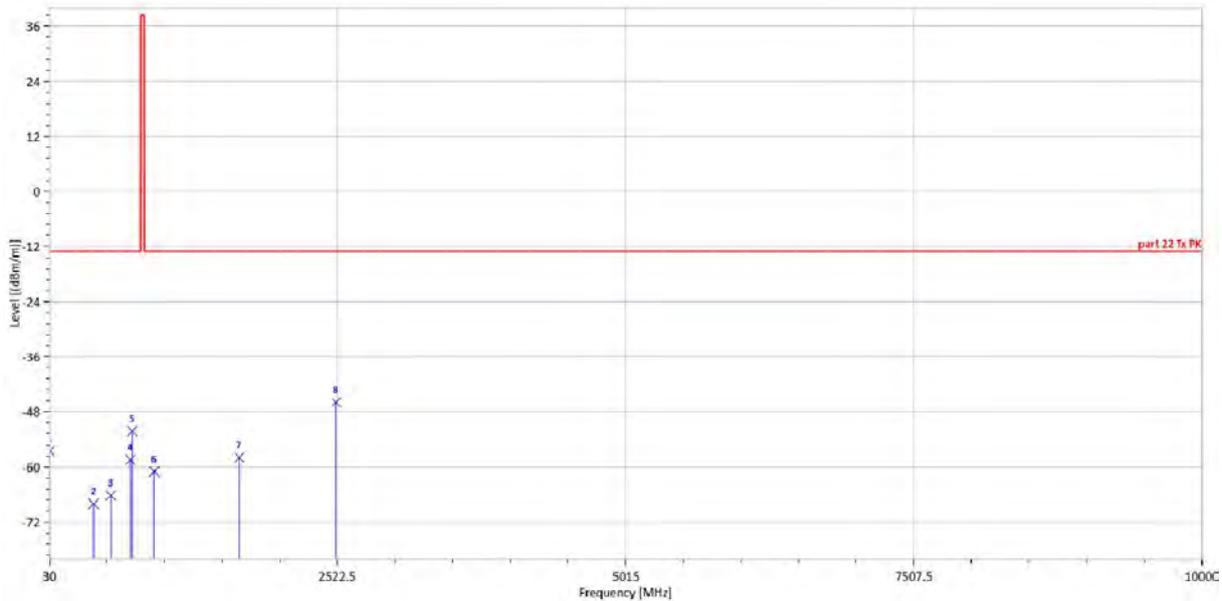
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Operation Mode :	WCDMA B5	Test Date :	2017/9/8
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
31.94	S	-56.55	-34.91	-20.82	-0.83	-13	-43.55
413.15	S	-68.01	-68.39	3.31	-2.93	-13	-55.01
561.56	S	-66.23	-66.85	4.05	-3.43	-13	-53.23
730.34	S	-58.43	-59.65	5.12	-3.90	-13	-45.43
747.80	S	-52.19	-53.41	5.16	-3.93	-13	-39.19
937.92	S	-61.00	-61.88	5.37	-4.49	-13	-48.00
1673.20	H	-57.96	-58.13	6.68	-6.50	-13	-44.96
2509.80	H	-45.94	-46.66	8.56	-7.84	-13	-32.94

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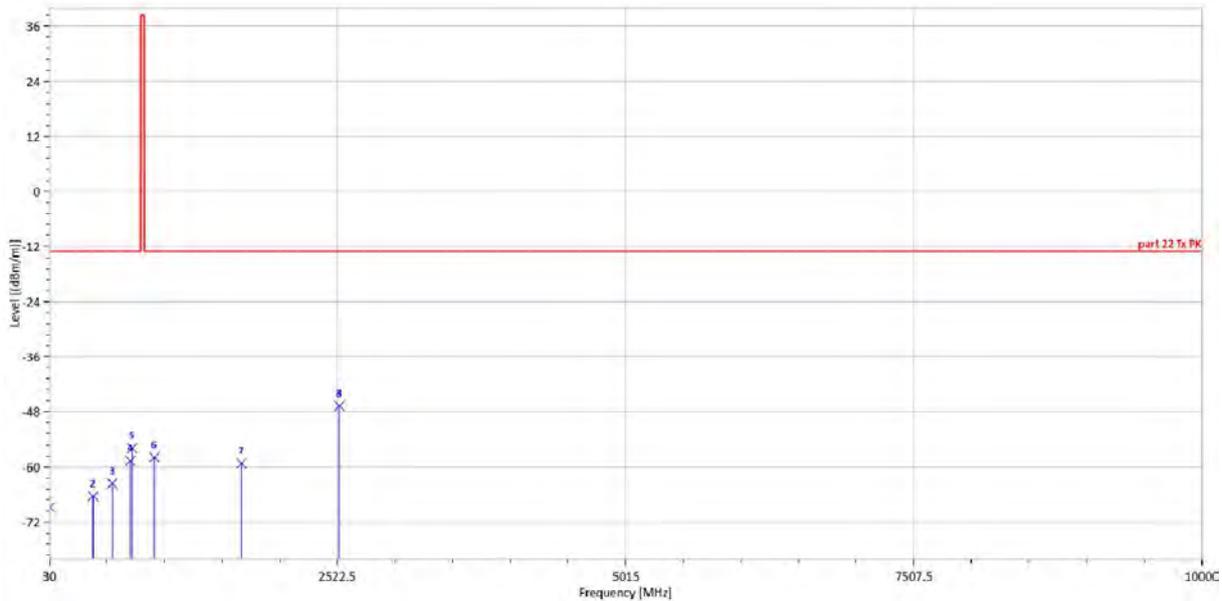
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Operation Mode :	WCDMA B5	Test Date :	2017/9/8
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
32.91	S	-68.74	-47.93	-19.97	-0.83	-13	-55.74
409.27	S	-66.37	-66.73	3.28	-2.92	-13	-53.37
574.17	S	-63.58	-64.25	4.14	-3.47	-13	-50.58
729.37	S	-58.67	-59.89	5.12	-3.90	-13	-45.67
746.83	S	-55.93	-57.15	5.15	-3.93	-13	-42.93
938.89	S	-57.91	-58.79	5.37	-4.50	-13	-44.91
1693.20	H	-59.24	-59.46	6.76	-6.55	-13	-46.24
2539.80	H	-46.71	-47.43	8.60	-7.87	-13	-33.71

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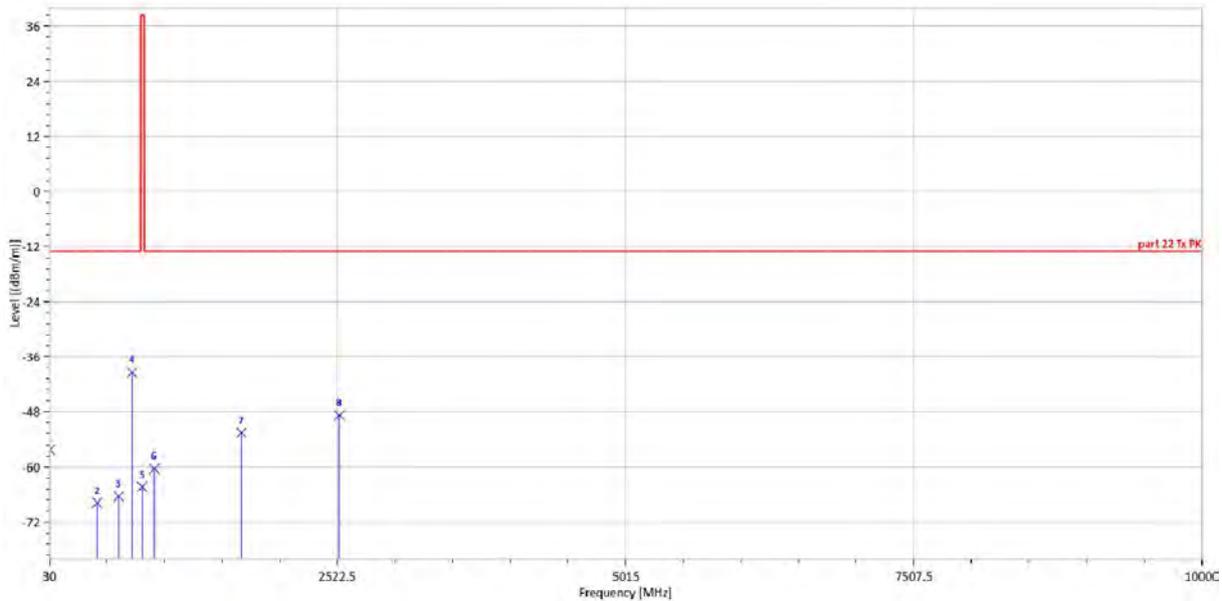
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Operation Mode :	WCDMA B5	Test Date :	2017/9/8
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
31.94	S	-56.29	-34.64	-20.82	-0.83	-13	-43.29
443.22	S	-67.80	-68.34	3.56	-3.02	-13	-54.80
631.40	S	-66.41	-67.27	4.51	-3.65	-13	-53.41
746.83	S	-39.47	-40.69	5.15	-3.93	-13	-26.47
833.16	S	-64.32	-65.22	5.11	-4.21	-13	-51.32
938.89	S	-60.40	-61.28	5.37	-4.50	-13	-47.40
1693.20	H	-52.54	-52.76	6.76	-6.55	-13	-39.54
2539.80	H	-48.74	-49.47	8.60	-7.87	-13	-35.74

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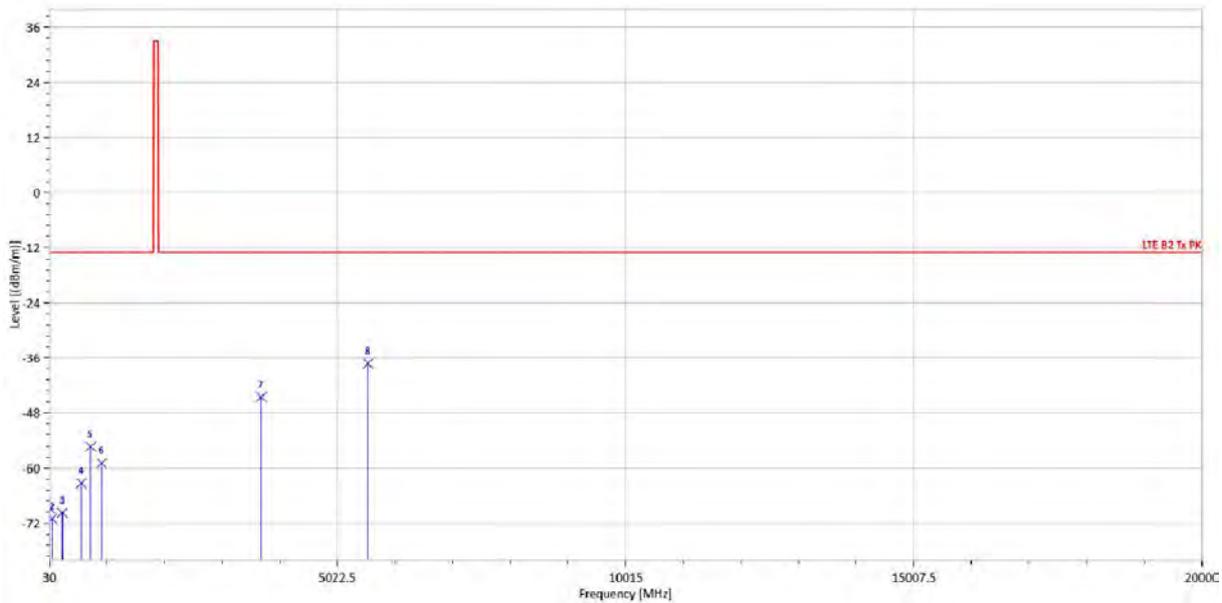
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1851.5 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
33.88	S	-68.77	-50.73	-17.21	-0.84	-13	-55.77
79.47	S	-70.99	-70.23	0.45	-1.22	-13	-57.99
255.04	S	-69.72	-72.28	4.84	-2.28	-13	-56.72
583.87	S	-63.25	-66.57	6.83	-3.51	-13	-50.25
747.80	S	-55.31	-59.09	7.71	-3.93	-13	-42.31
938.89	S	-58.95	-62.40	7.95	-4.50	-13	-45.95
3703.00	H	-44.51	-48.03	12.42	-8.90	-13	-31.51
5554.50	H	-37.19	-39.87	13.01	-10.33	-13	-24.19

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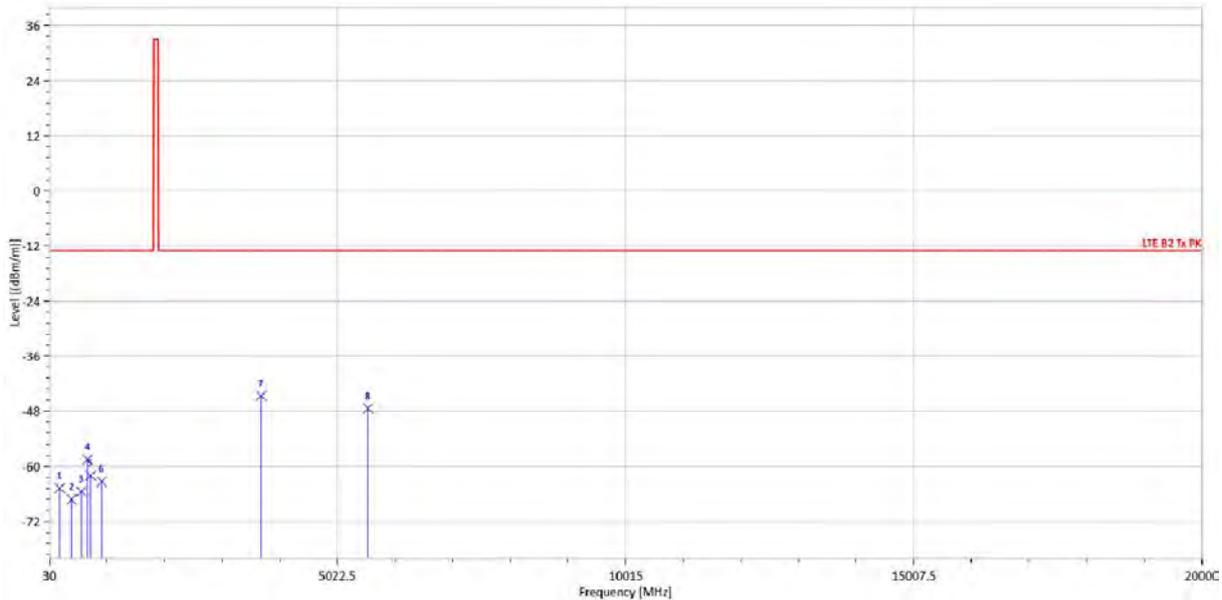
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Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1851.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
210.42	S	-64.72	-68.75	6.07	-2.04	-13	-51.72
416.06	S	-67.17	-70.15	5.92	-2.94	-13	-54.17
584.84	S	-65.47	-68.80	6.83	-3.51	-13	-52.47
692.51	S	-58.49	-62.31	7.63	-3.81	-13	-45.49
746.83	S	-62.00	-65.78	7.71	-3.93	-13	-49.00
938.89	S	-63.31	-66.76	7.95	-4.50	-13	-50.31
3703.00	H	-44.63	-48.15	12.42	-8.90	-13	-31.63
5554.50	H	-47.39	-50.07	13.01	-10.33	-13	-34.39

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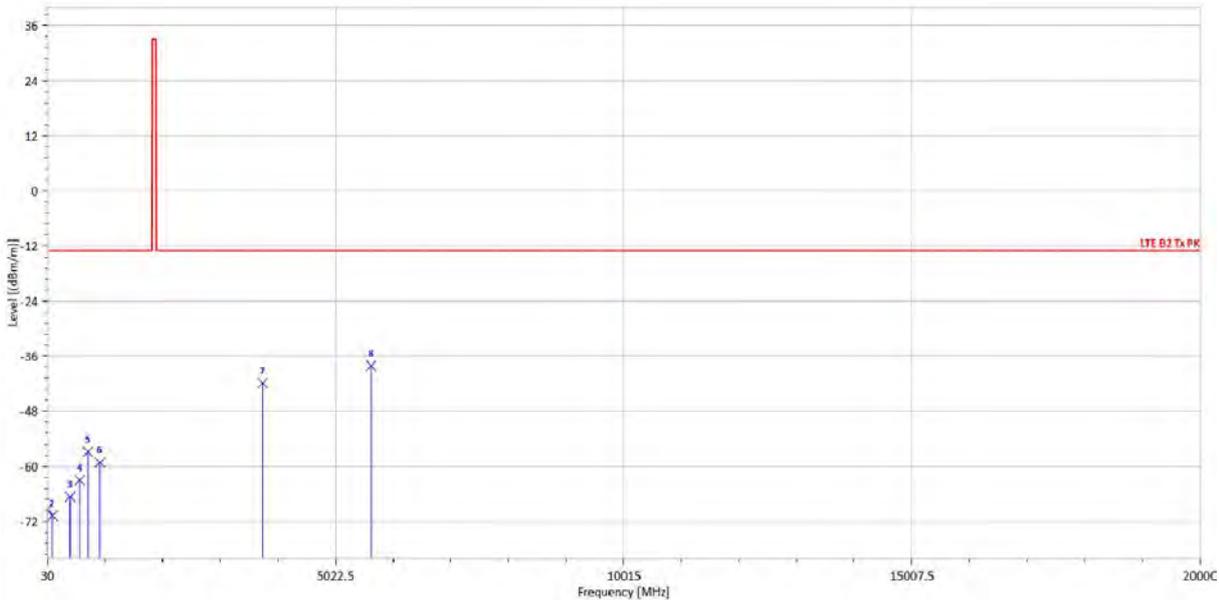
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Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
31.94	S	-69.33	-49.72	-18.78	-0.83	-13	-56.33
118.27	S	-70.74	-67.95	-1.29	-1.50	-13	-57.74
422.85	S	-66.61	-69.64	5.99	-2.96	-13	-53.61
589.69	S	-63.05	-66.40	6.88	-3.53	-13	-50.05
730.34	S	-56.87	-60.68	7.71	-3.90	-13	-43.87
938.89	S	-59.18	-62.63	7.95	-4.50	-13	-46.18
3760.00	H	-41.88	-45.40	12.46	-8.94	-13	-28.88
5640.00	H	-38.10	-40.73	13.03	-10.40	-13	-25.10

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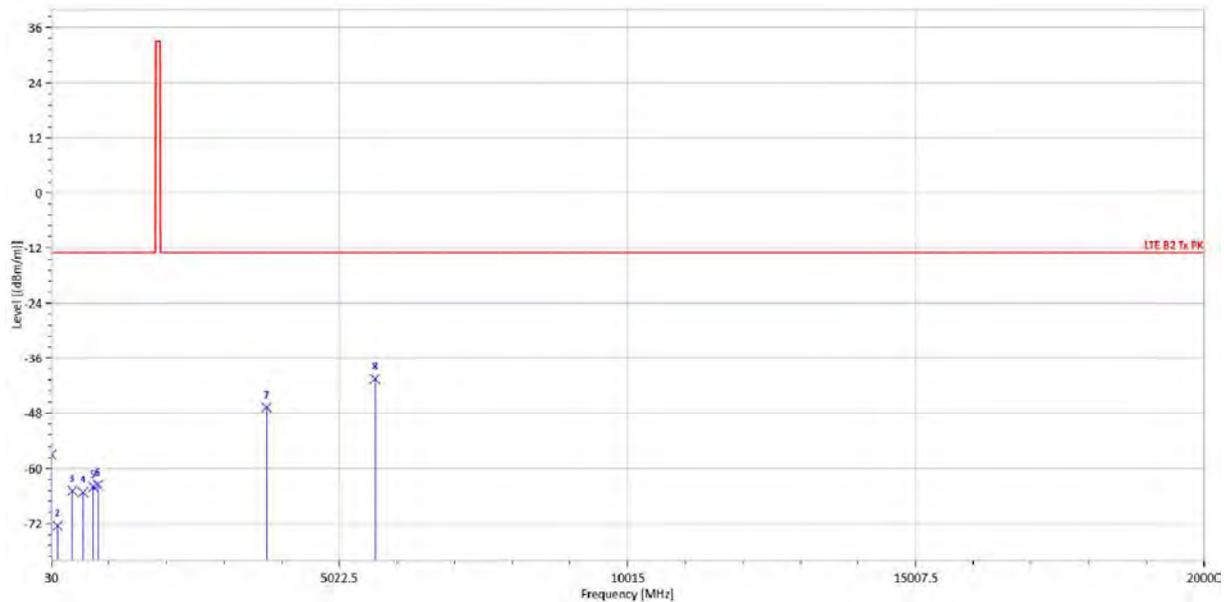
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Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	dBm	Gain	Loss	@3m	dB
31.94	S	-57.00	-37.40	-18.78	-0.83	-13	-44.00
140.58	S	-72.49	-71.75	0.91	-1.65	-13	-59.49
393.75	S	-64.87	-67.81	5.78	-2.85	-13	-51.87
578.05	S	-65.20	-68.49	6.77	-3.48	-13	-52.20
758.47	S	-64.00	-67.76	7.72	-3.97	-13	-51.00
838.98	S	-63.61	-67.16	7.79	-4.24	-13	-50.61
3760.00	H	-46.75	-50.26	12.46	-8.94	-13	-33.75
5640.00	H	-40.53	-43.16	13.03	-10.40	-13	-27.53

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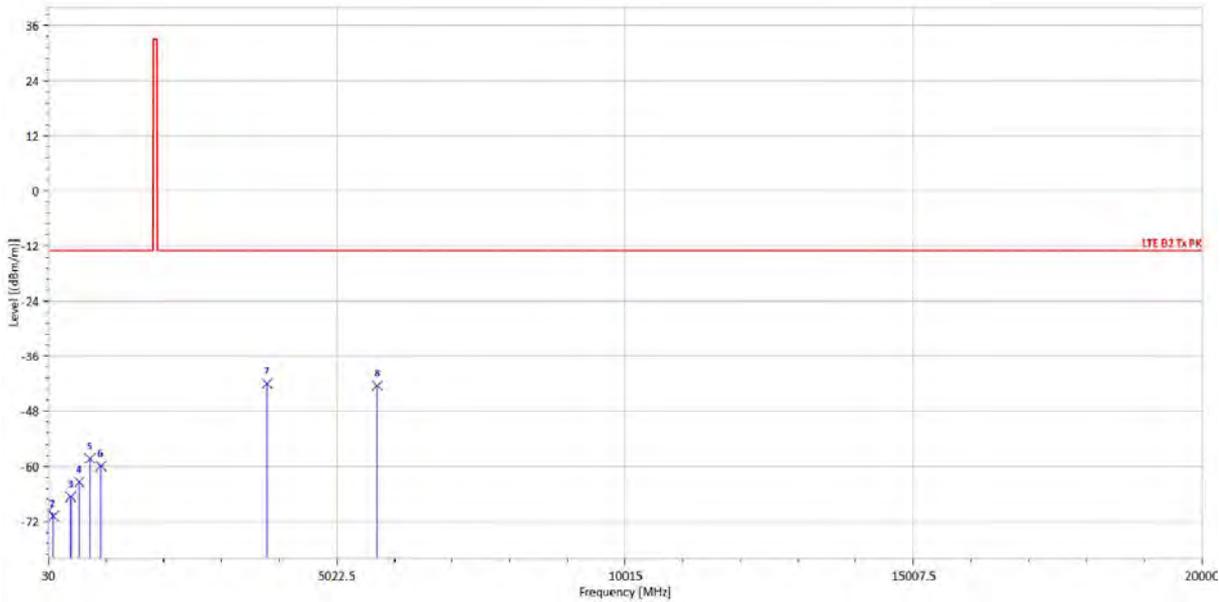
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Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1908.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
33.88	S	-69.60	-51.56	-17.21	-0.84	-13	-56.60
116.33	S	-70.83	-67.96	-1.37	-1.49	-13	-57.83
415.09	S	-66.62	-69.59	5.91	-2.94	-13	-53.62
563.50	S	-63.42	-66.62	6.64	-3.44	-13	-50.42
746.83	S	-58.32	-62.10	7.71	-3.93	-13	-45.32
937.92	S	-59.97	-63.42	7.95	-4.49	-13	-46.97
3817.00	H	-42.01	-45.51	12.49	-8.98	-13	-29.01
5725.50	H	-42.44	-45.01	13.05	-10.47	-13	-29.44

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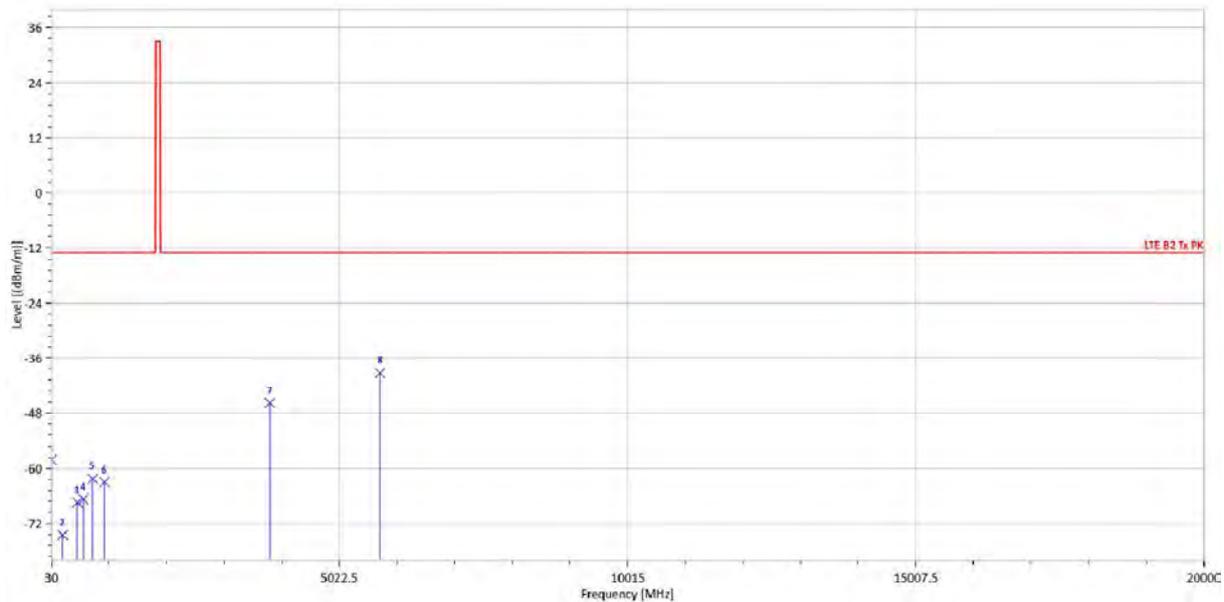
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Operation Mode :	LTEB2 3M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	1908.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	-58.17	-40.12	-17.21	-0.84	-13	-45.17
227.88	S	-74.51	-78.49	6.11	-2.13	-13	-61.51
481.05	S	-67.43	-70.69	6.41	-3.15	-13	-54.43
584.84	S	-66.70	-70.03	6.83	-3.51	-13	-53.70
747.80	S	-62.26	-66.04	7.71	-3.93	-13	-49.26
951.50	S	-63.02	-66.46	7.97	-4.52	-13	-50.02
3817.00	H	-45.77	-49.28	12.49	-8.98	-13	-32.77
5725.50	H	-39.24	-41.82	13.05	-10.47	-13	-26.24

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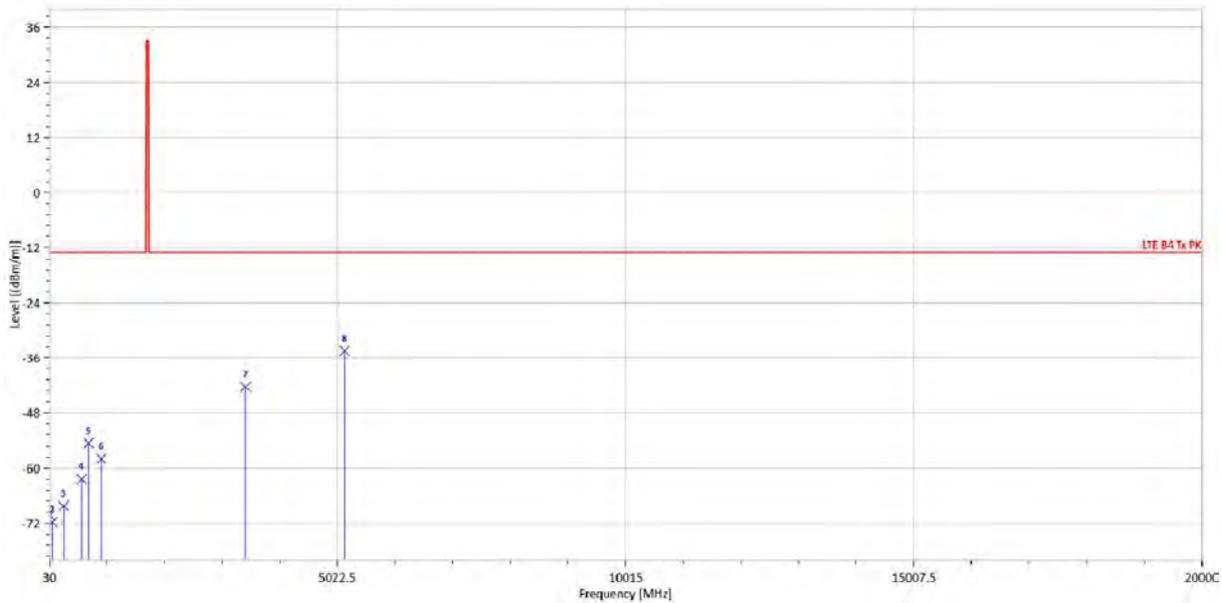
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1715 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	dB
			dBm	dB	dB	dBm/m	
36.87	S	-70.26	-52.21	-17.21	-0.84	-13	-57.26
80.55	S	-71.78	-71.02	0.45	-1.22	-13	-58.78
278.00	S	-68.22	-70.79	4.84	-2.28	-13	-55.22
587.50	S	-62.39	-65.71	6.83	-3.51	-13	-49.39
711.64	S	-54.57	-58.35	7.71	-3.93	-13	-41.57
931.15	S	-57.98	-61.43	7.95	-4.50	-13	-44.98
3430.00	H	-42.31	-45.83	12.42	-8.90	-13	-29.31
5145.00	H	-34.44	-37.11	13.01	-10.33	-13	-21.44

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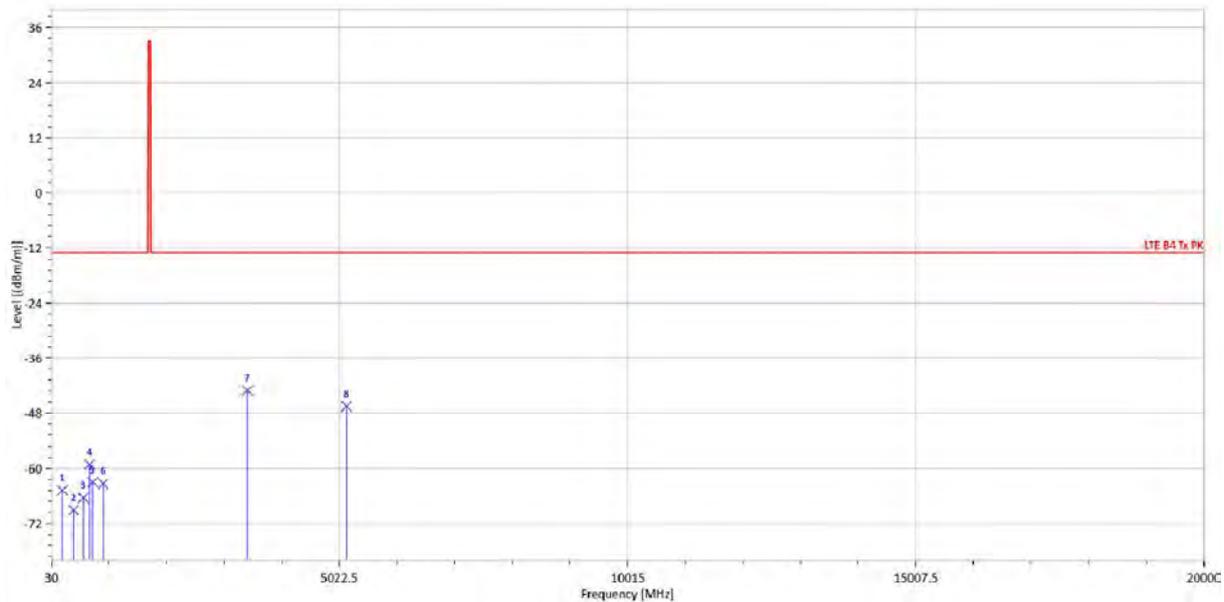
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Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1715 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
222.25	S	-64.74	-68.77	6.07	-2.04	-13	-51.74
418.14	S	-69.12	-72.10	5.92	-2.94	-13	-56.12
585.15	S	-66.44	-69.77	6.83	-3.51	-13	-53.44
694.15	S	-59.18	-63.01	7.63	-3.81	-13	-46.18
748.51	S	-63.00	-66.78	7.71	-3.93	-13	-50.00
930.15	S	-63.31	-66.76	7.95	-4.50	-13	-50.31
3430.00	H	-43.07	-46.59	12.42	-8.90	-13	-30.07
5145.00	H	-46.48	-49.16	13.01	-10.33	-13	-33.48

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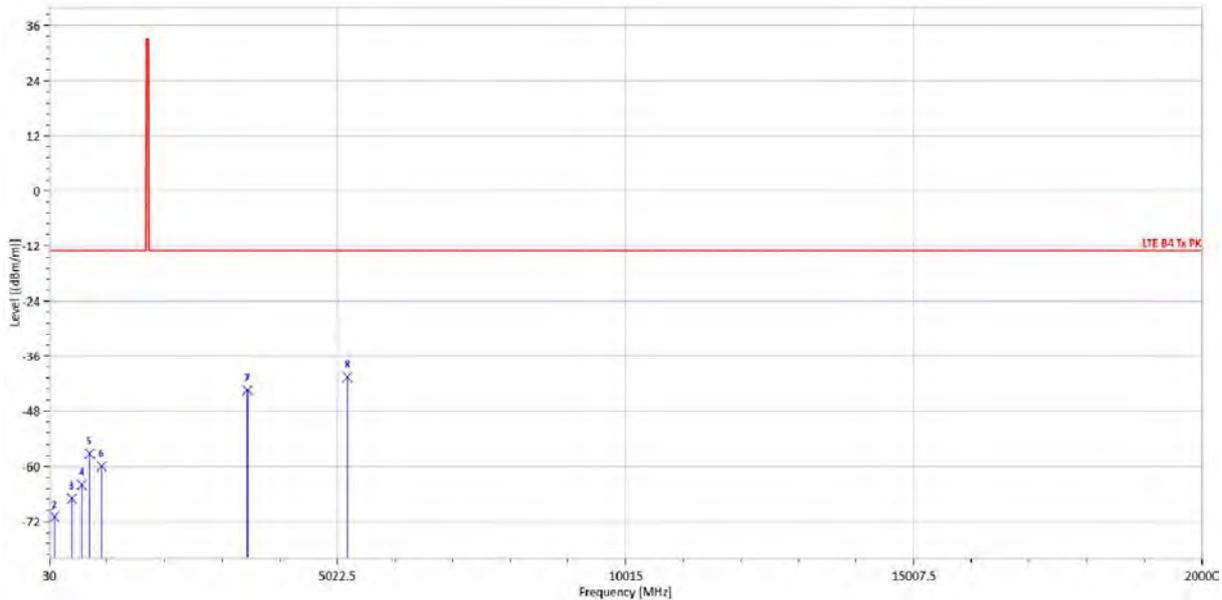
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Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1732 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



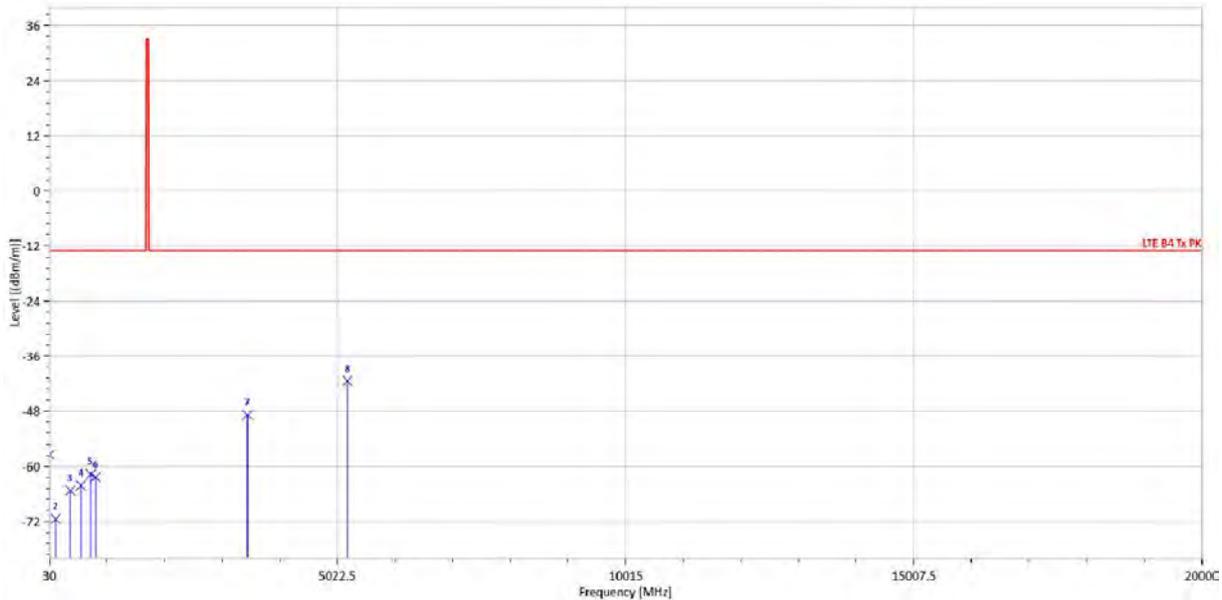
Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
33.45	S	-69.83	-50.23	-18.78	-0.83	-13	-56.83
120.54	S	-70.96	-68.17	-1.29	-1.50	-13	-57.96
423.55	S	-67.00	-70.04	5.99	-2.96	-13	-54.00
590.65	S	-64.00	-67.35	6.88	-3.53	-13	-51.00
731.15	S	-57.24	-61.05	7.71	-3.90	-13	-44.24
937.26	S	-60.01	-63.46	7.95	-4.50	-13	-47.01
3464.00	H	-43.45	-46.97	12.46	-8.94	-13	-30.45
5196.00	H	-40.56	-43.19	13.03	-10.40	-13	-27.56

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Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1732 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
32.33	S	-57.49	-37.88	-18.78	-0.83	-13	-44.49
141.54	S	-71.44	-70.70	0.91	-1.65	-13	-58.44
394.16	S	-65.24	-68.17	5.78	-2.85	-13	-52.24
576.15	S	-64.16	-67.45	6.77	-3.48	-13	-51.16
750.16	S	-61.71	-65.47	7.72	-3.97	-13	-48.71
830.15	S	-62.33	-65.89	7.79	-4.24	-13	-49.33
3464.00	H	-48.79	-52.31	12.46	-8.94	-13	-35.79
5196.00	H	-41.40	-44.02	13.03	-10.40	-13	-28.40

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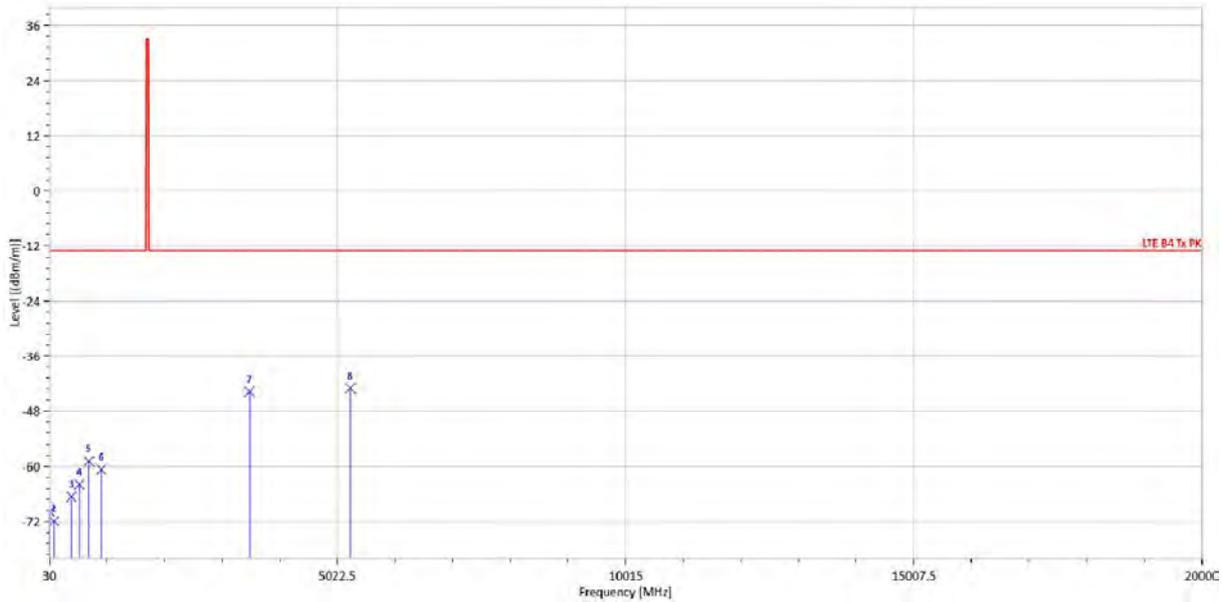
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Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1750 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



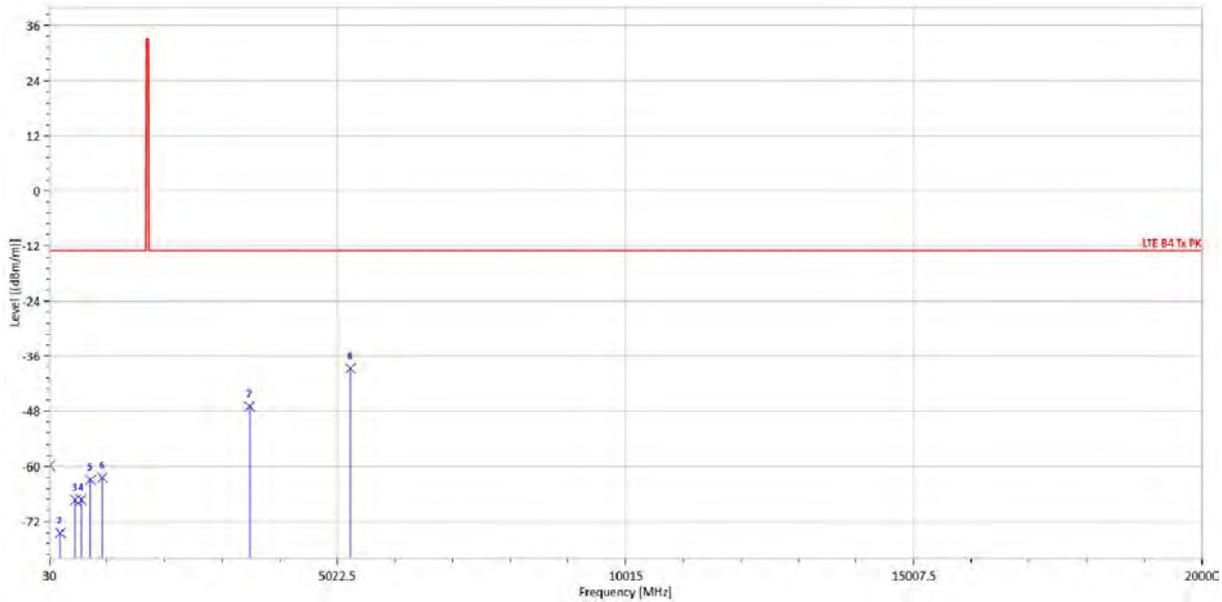
Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
30.46	S	-69.82	-51.77	-17.21	-0.84	-13	-56.82
111.48	S	-71.93	-69.07	-1.37	-1.49	-13	-58.93
413.88	S	-66.61	-69.58	5.91	-2.94	-13	-53.61
548.46	S	-63.93	-67.13	6.64	-3.44	-13	-50.93
715.95	S	-58.92	-62.70	7.71	-3.93	-13	-45.92
930.99	S	-60.70	-64.15	7.95	-4.49	-13	-47.70
3500.00	H	-43.72	-47.23	12.49	-8.98	-13	-30.72
5250.00	H	-42.99	-45.56	13.05	-10.47	-13	-29.99

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Operation Mode :	LTEB4 10M QPSK 1.49	Test Date :	2017/9/8
Fundamental Frequency :	1750 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	Gain	Loss	@3m	dB
35.58	S	-59.87	-41.82	-17.21	-0.84	-13	-46.87
220.84	S	-74.50	-78.49	6.11	-2.13	-13	-61.50
480.65	S	-67.33	-70.58	6.41	-3.15	-13	-54.33
582.56	S	-67.24	-70.57	6.83	-3.51	-13	-54.24
742.56	S	-62.95	-66.73	7.71	-3.93	-13	-49.95
949.51	S	-62.46	-65.90	7.97	-4.52	-13	-49.46
3500.00	H	-46.96	-50.47	12.49	-8.98	-13	-33.96
5250.00	H	-38.63	-41.20	13.05	-10.47	-13	-25.63

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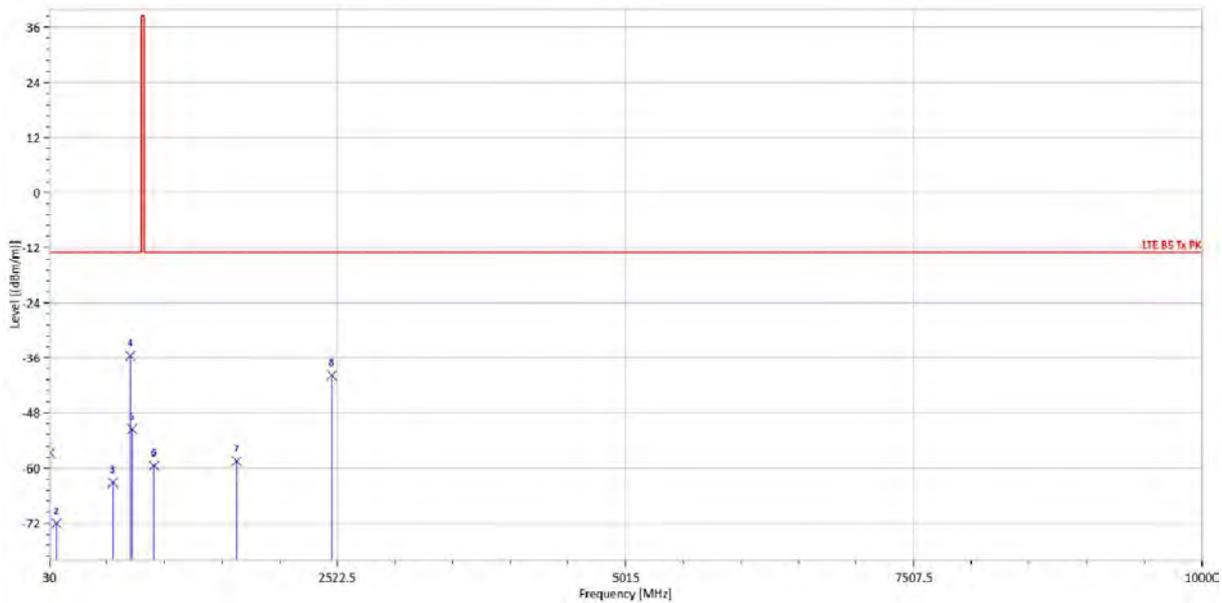
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
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
34.85	S	-56.67	-37.54	-18.29	-0.84	-13	-43.67
93.05	S	-72.01	-68.10	-2.59	-1.32	-13	-59.01
579.99	S	-63.17	-63.86	4.18	-3.49	-13	-50.17
730.34	S	-35.53	-36.75	5.12	-3.90	-13	-22.53
746.83	S	-51.51	-52.74	5.15	-3.93	-13	-38.51
935.98	S	-59.48	-60.36	5.36	-4.49	-13	-46.48
1649.40	H	-58.46	-58.58	6.58	-6.45	-13	-45.46
2474.10	H	-39.81	-40.53	8.52	-7.80	-13	-26.81

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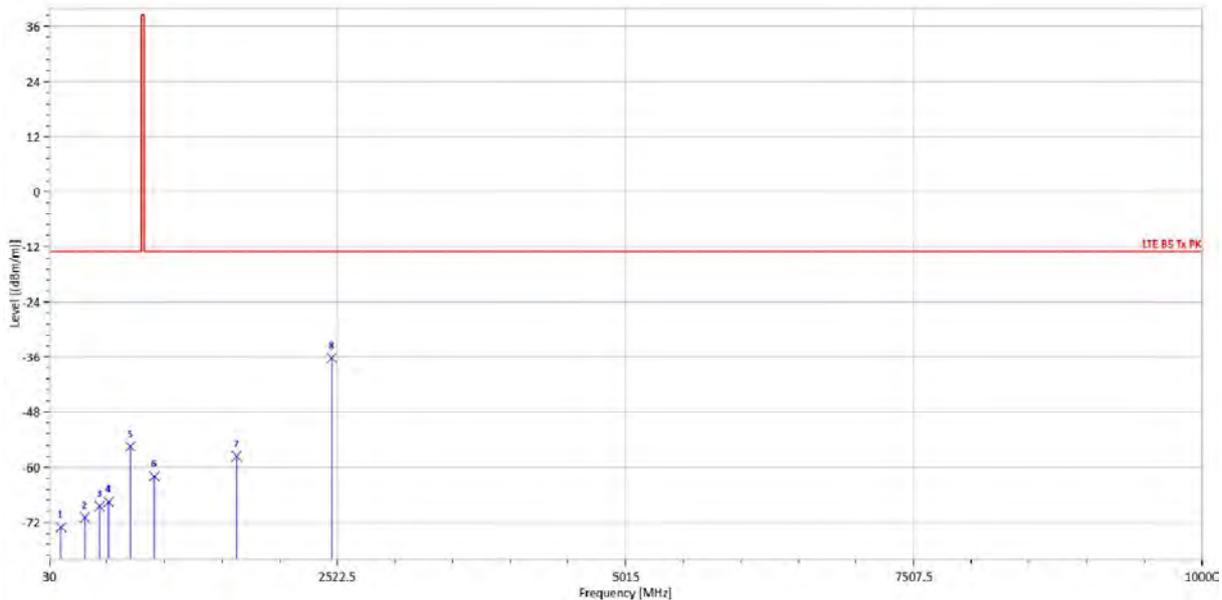
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Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
131.85	S	-73.09	-69.27	-2.23	-1.59	-13	-60.09
337.49	S	-70.92	-71.75	3.46	-2.63	-13	-57.92
464.56	S	-68.44	-69.09	3.74	-3.09	-13	-55.44
543.13	S	-67.58	-68.17	3.98	-3.39	-13	-54.58
730.34	S	-55.50	-56.72	5.12	-3.90	-13	-42.50
938.89	S	-61.99	-62.87	5.37	-4.50	-13	-48.99
1649.40	H	-57.61	-57.73	6.58	-6.45	-13	-44.61
2474.10	H	-36.22	-36.94	8.52	-7.80	-13	-23.22

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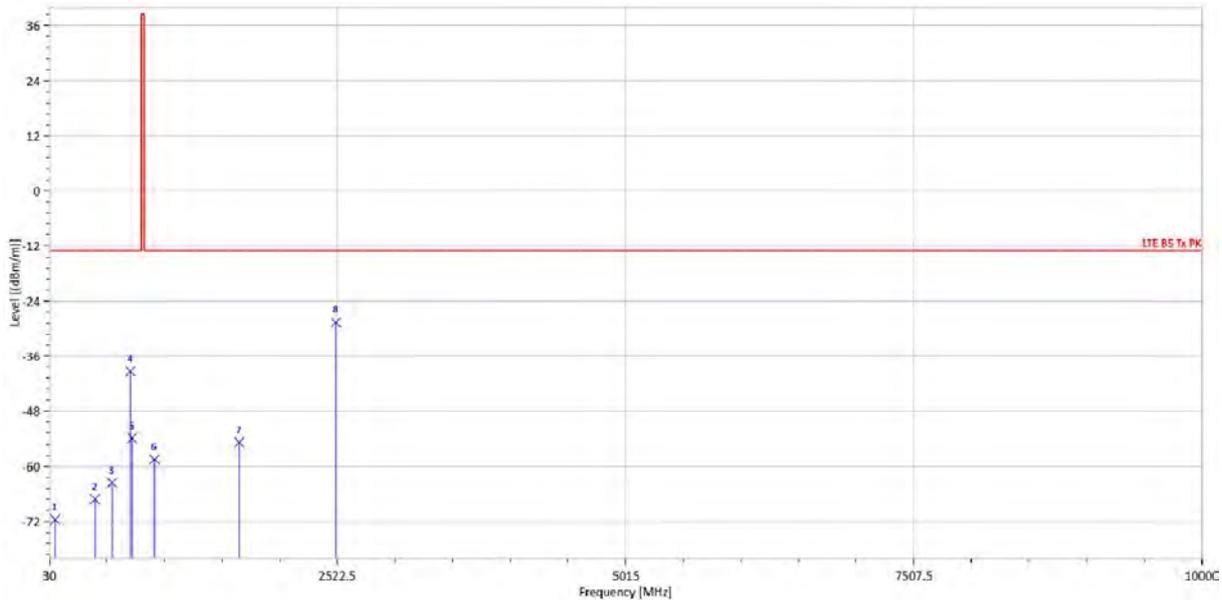
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Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
80.44	S	-71.58	-68.65	-1.71	-1.22	-13	-58.58
424.79	S	-67.15	-67.60	3.41	-2.96	-13	-54.15
572.23	S	-63.56	-64.22	4.13	-3.47	-13	-50.56
730.34	S	-39.32	-40.54	5.12	-3.90	-13	-26.32
746.83	S	-53.82	-55.04	5.15	-3.93	-13	-40.82
939.86	S	-58.48	-59.35	5.38	-4.50	-13	-45.48
1673.00	H	-54.75	-54.93	6.68	-6.50	-13	-41.75
2509.50	H	-28.63	-29.36	8.56	-7.84	-13	-15.63

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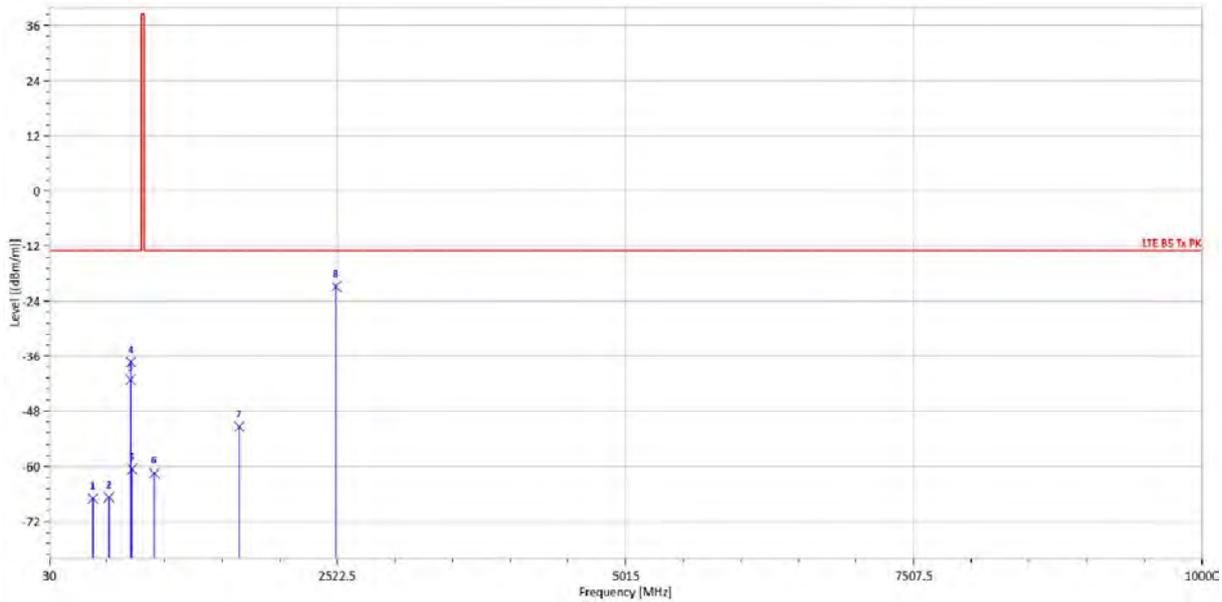
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Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
407.33	S	-66.99	-67.34	3.26	-2.91	-13	-53.99
546.04	S	-66.71	-67.29	3.98	-3.40	-13	-53.71
731.31	S	-41.15	-42.37	5.12	-3.90	-13	-28.15
736.16	S	-37.30	-38.52	5.13	-3.91	-13	-24.30
746.83	S	-60.62	-61.84	5.15	-3.93	-13	-47.62
938.89	S	-61.52	-62.39	5.37	-4.50	-13	-48.52
1673.00	H	-51.38	-51.55	6.68	-6.50	-13	-38.38
2509.50	H	-20.84	-21.56	8.56	-7.84	-13	-7.84

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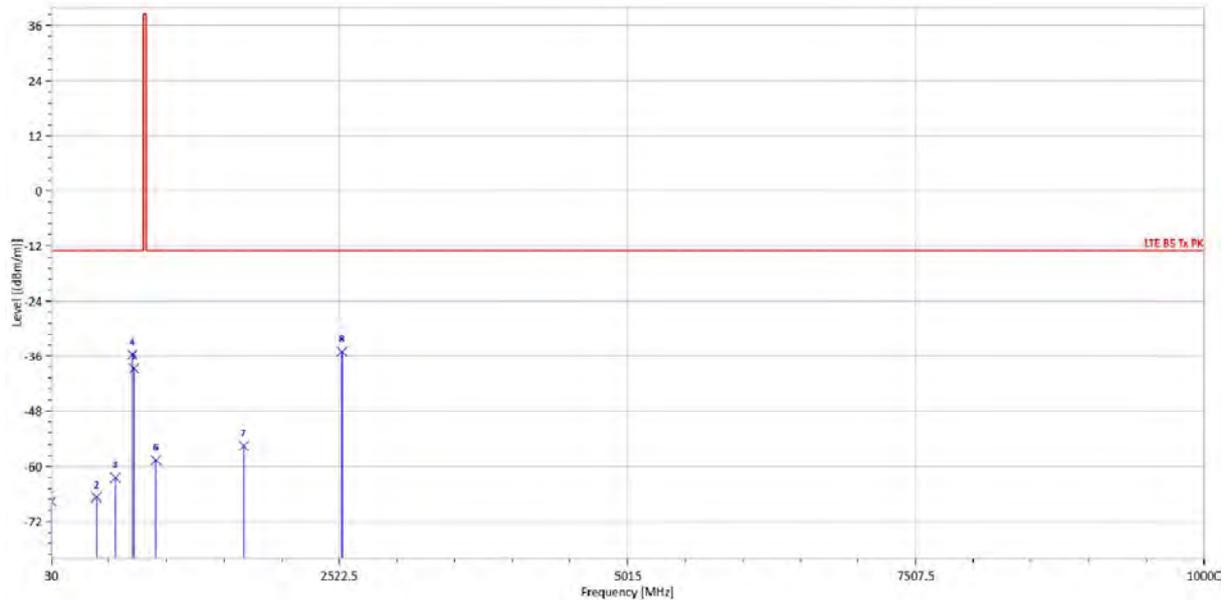
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Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
30.97	S	-67.64	-45.16	-21.66	-0.82	-13	-54.64
419.94	S	-66.72	-67.14	3.37	-2.95	-13	-53.72
583.87	S	-62.45	-63.15	4.21	-3.51	-13	-49.45
730.34	S	-35.67	-36.89	5.12	-3.90	-13	-22.67
745.86	S	-38.62	-39.85	5.15	-3.93	-13	-25.62
935.01	S	-58.67	-59.55	5.36	-4.49	-13	-45.67
1696.60	H	-55.59	-55.81	6.78	-6.55	-13	-42.59
2544.90	H	-35.02	-35.74	8.60	-7.88	-13	-22.02

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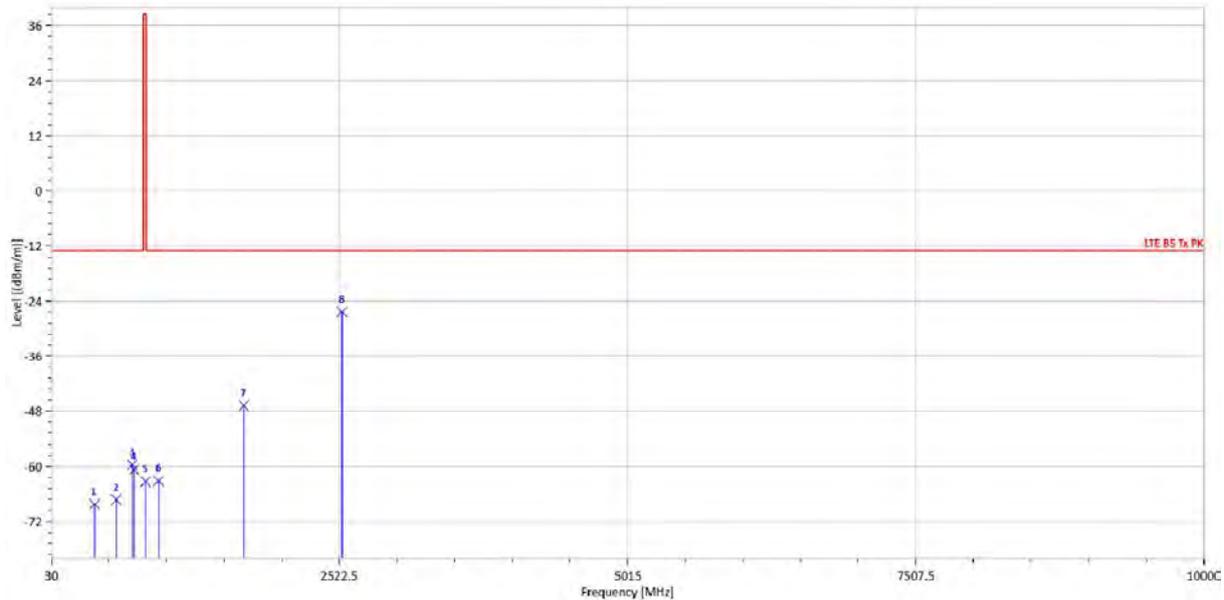
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Operation Mode :	LTEB5 1.4M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
404.42	S	-68.20	-68.55	3.24	-2.89	-13	-55.20
591.63	S	-67.26	-67.99	4.26	-3.54	-13	-54.26
730.34	S	-59.69	-60.91	5.12	-3.90	-13	-46.69
746.83	S	-60.72	-61.94	5.15	-3.93	-13	-47.72
844.80	S	-63.31	-64.12	5.07	-4.25	-13	-76.30
958.29	S	-63.18	-64.07	5.43	-4.54	-13	-50.18
1696.60	H	-46.77	-46.99	6.78	-6.55	-13	-33.77
2544.90	H	-26.36	-27.09	8.60	-7.88	-13	-13.36

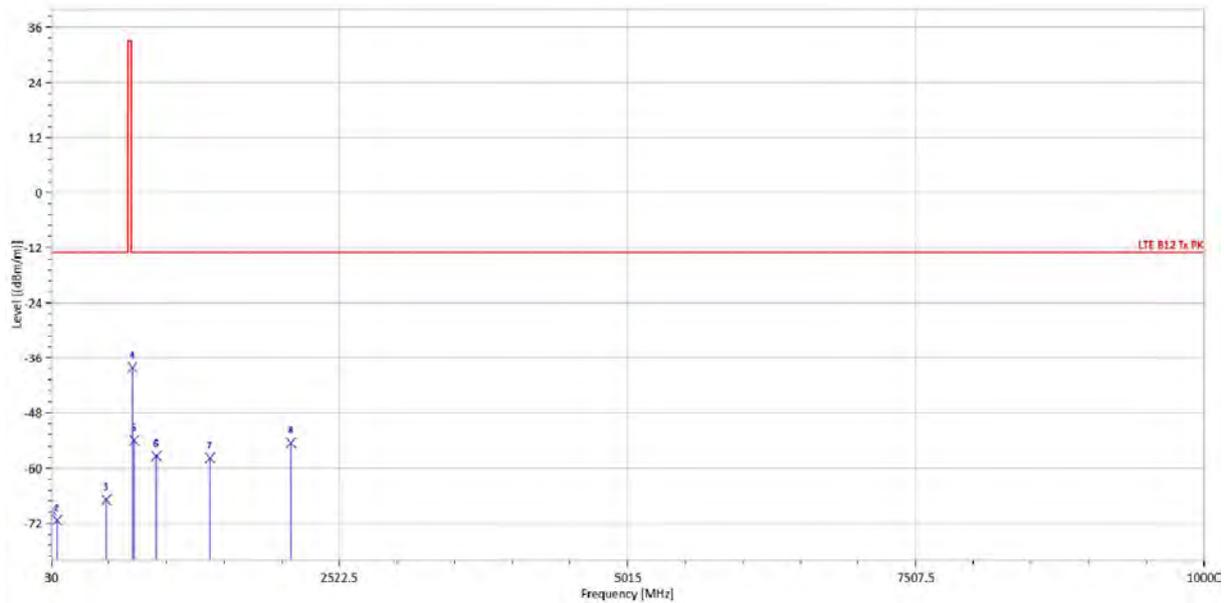
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode :	LTEB12 5MQPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	701.5 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
30.97	S	-69.25	-46.77	-21.66	-0.82	-13	-56.25
80.44	S	-71.33	-68.40	-1.71	-1.22	-13	-58.33
507.24	S	-66.86	-67.64	4.03	-3.25	-13	-53.86
731.31	S	-38.05	-39.27	5.12	-3.90	-13	-25.05
747.80	S	-53.96	-55.19	5.16	-3.93	-13	-40.96
938.89	S	-57.42	-58.30	5.37	-4.50	-13	-44.42
1403.00	H	-57.80	-57.38	5.48	-5.91	-13	-44.80
2104.50	H	-54.51	-55.37	8.15	-7.30	-13	-41.51

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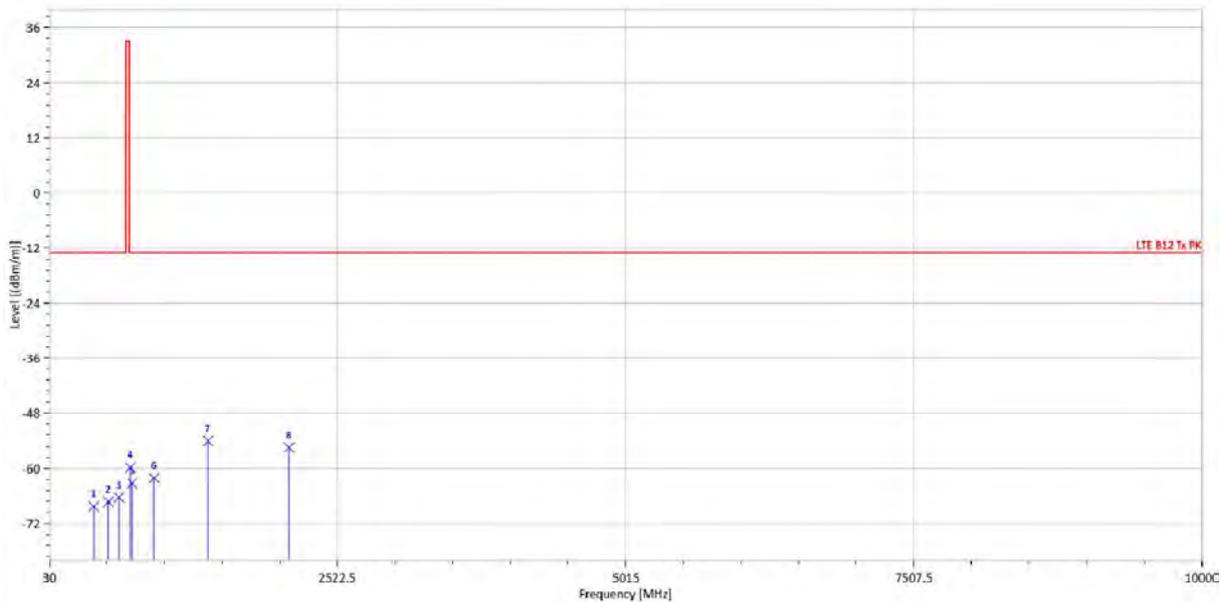
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Operation Mode :	LTEB12 5M QPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
414.12	S	-68.29	-68.68	3.32	-2.93	-13	-55.29
541.19	S	-67.30	-67.90	3.98	-3.38	-13	-54.30
634.31	S	-66.34	-67.21	4.53	-3.66	-13	-53.34
729.37	S	-59.87	-61.09	5.12	-3.90	-13	-46.87
746.83	S	-63.22	-64.45	5.15	-3.93	-13	-50.22
935.98	S	-62.10	-62.97	5.36	-4.49	-13	-49.10
1403.00	H	-54.05	-53.63	5.48	-5.91	-13	-41.05
2104.50	H	-55.48	-56.33	8.15	-7.30	-13	-42.48

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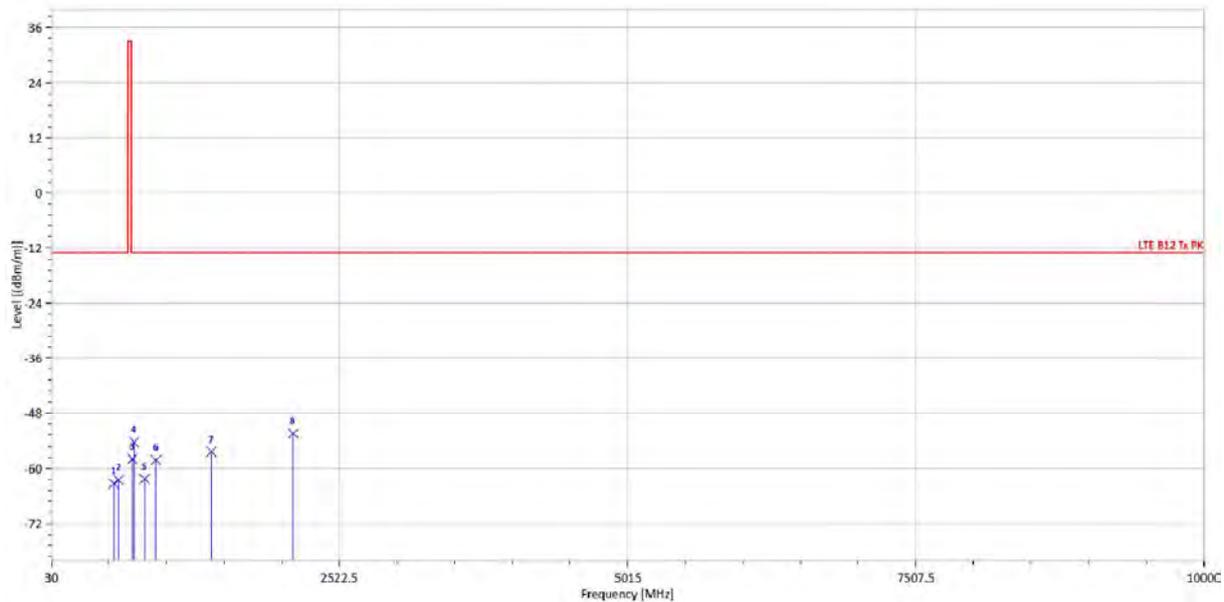
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Operation Mode :	LTEB12 5M QPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
570.29	S	-63.29	-63.95	4.11	-3.46	-13	-50.29
612.00	S	-62.56	-63.35	4.39	-3.61	-13	-49.56
730.34	S	-57.97	-59.19	5.12	-3.90	-13	-44.97
746.83	S	-54.34	-55.56	5.15	-3.93	-13	-41.34
837.04	S	-62.30	-63.17	5.09	-4.23	-13	-49.30
935.01	S	-58.21	-59.08	5.36	-4.49	-13	-45.21
1415.00	H	-56.39	-55.99	5.54	-5.93	-13	-43.39
2122.50	H	-52.41	-53.26	8.17	-7.32	-13	-39.41

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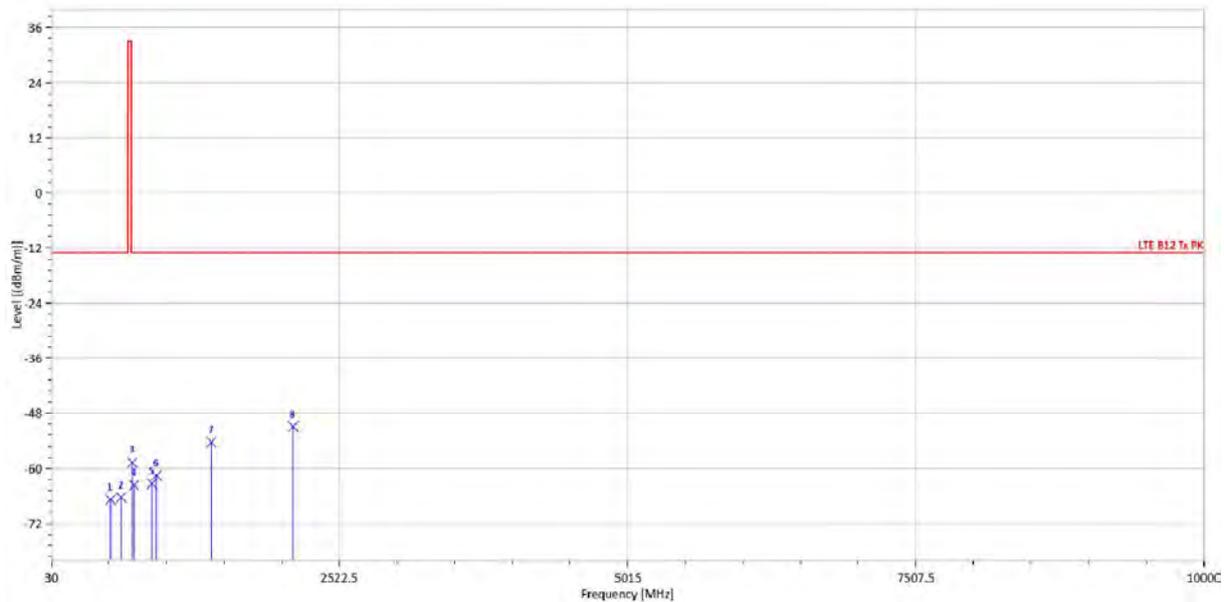
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Operation Mode :	LTEB12 5M QPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
543.13	S	-66.78	-67.37	3.98	-3.39	-13	-53.78
635.28	S	-66.32	-67.19	4.53	-3.66	-13	-53.32
729.37	S	-58.77	-59.99	5.12	-3.90	-13	-45.77
746.83	S	-63.64	-64.87	5.15	-3.93	-13	-50.64
901.06	S	-63.31	-64.14	5.24	-4.41	-13	-50.31
938.89	S	-61.55	-62.42	5.37	-4.50	-13	-48.55
1415.00	H	-54.32	-53.93	5.54	-5.93	-13	-41.32
2122.50	H	-50.89	-51.74	8.17	-7.32	-13	-37.89

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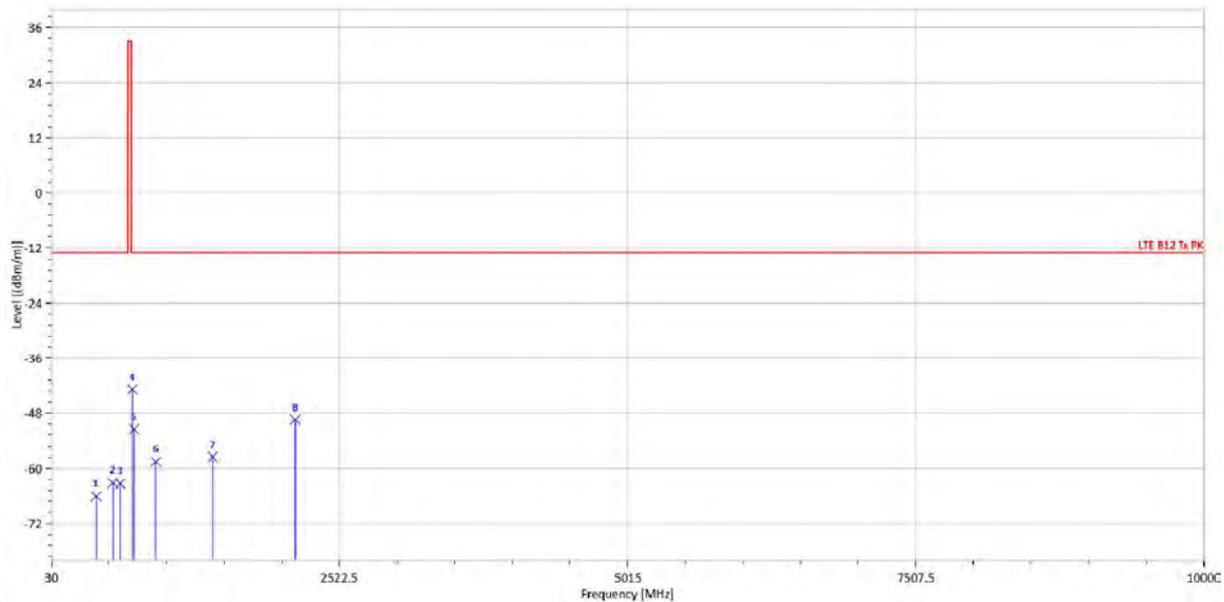
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Operation Mode :	LTEB12 5M QPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
418.00	S	-66.08	-66.49	3.35	-2.94	-13	-53.08
562.53	S	-63.18	-63.80	4.06	-3.44	-13	-50.18
626.55	S	-63.30	-64.14	4.48	-3.64	-13	-50.30
730.34	S	-42.82	-44.04	5.12	-3.90	-13	-29.82
746.83	S	-51.46	-52.68	5.15	-3.93	-13	-38.46
934.04	S	-58.54	-59.41	5.36	-4.48	-13	-45.54
1427.00	H	-57.55	-57.18	5.60	-5.96	-13	-44.55
2140.50	H	-49.40	-50.24	8.19	-7.35	-13	-36.40

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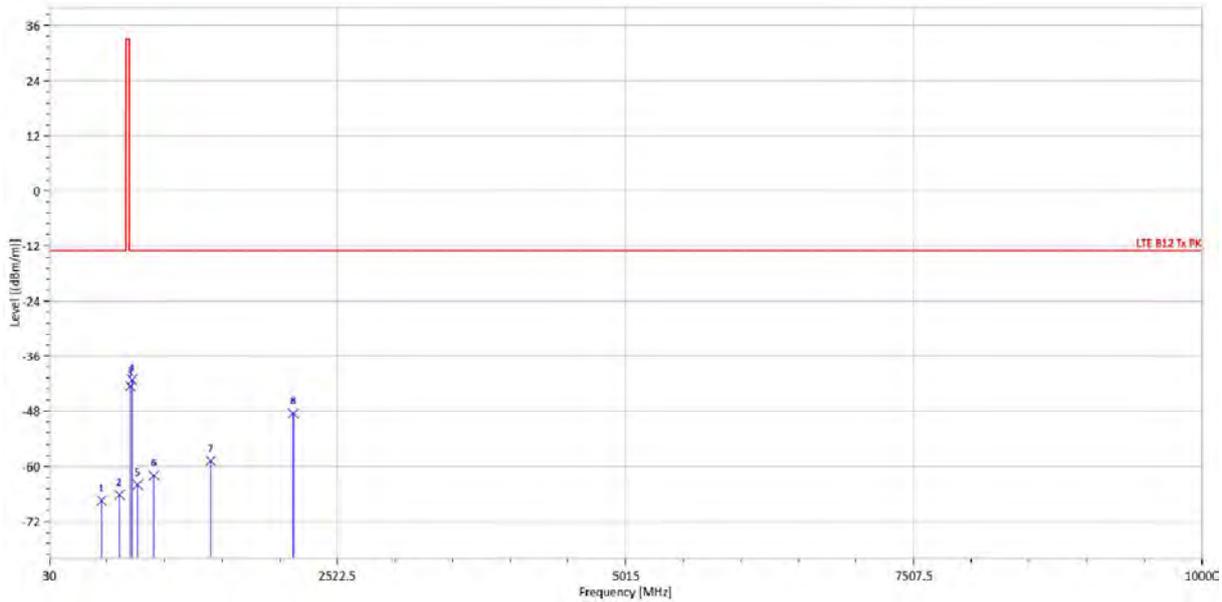
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Operation Mode :	LTEB12 5M QPSK 1.24	Test Date :	2017/9/8
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
482.99	S	-67.43	-68.17	3.90	-3.16	-13	-54.43
638.19	S	-66.23	-67.12	4.55	-3.67	-13	-53.23
730.34	S	-42.53	-43.75	5.12	-3.90	-13	-29.53
746.83	S	-41.18	-42.40	5.15	-3.93	-13	-28.18
795.33	S	-63.98	-65.10	5.21	-4.10	-13	-50.98
935.01	S	-62.01	-62.88	5.36	-4.49	-13	-49.01
1427.00	H	-58.83	-58.47	5.60	-5.96	-13	-45.83
2140.50	H	-48.46	-49.30	8.19	-7.35	-13	-35.46

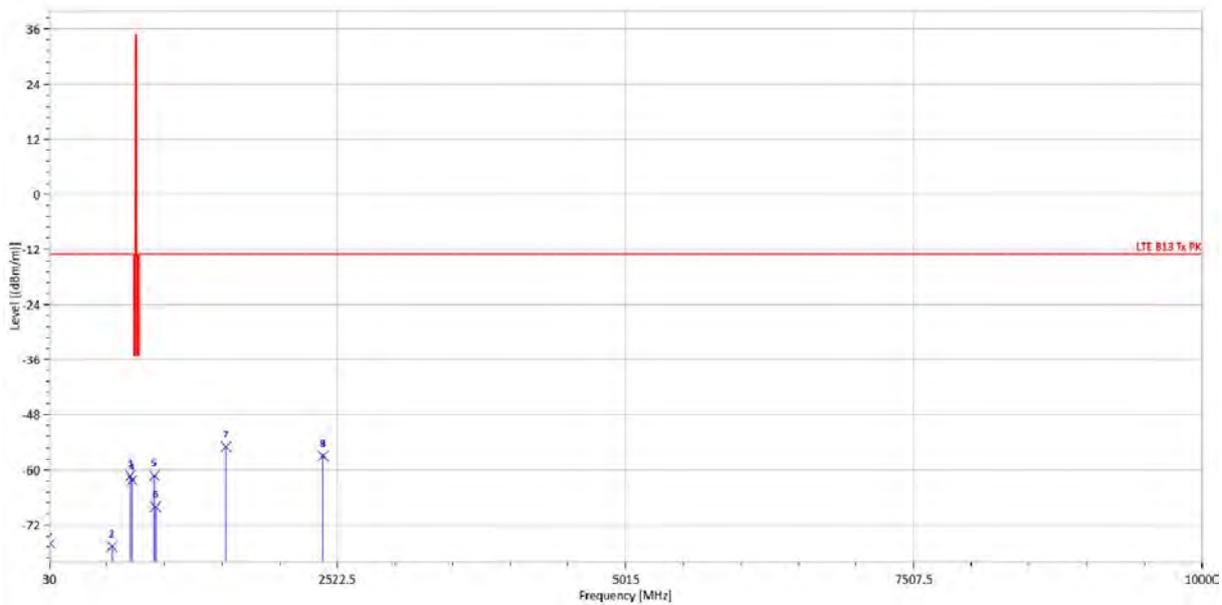
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	779.5 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	Gain	Loss	@3m	dB
			dBm	dB	dB	dBm/m	
34.85	S	-76.07	-56.94	-18.29	-0.84	-13	-63.07
572.23	S	-76.67	-77.33	4.13	-3.47	-13	-63.67
729.37	S	-61.31	-62.53	5.12	-3.90	-13	-48.31
746.83	S	-62.22	-63.44	5.15	-3.93	-13	-49.22
938.89	S	-61.28	-62.16	5.37	-4.50	-13	-48.28
949.56	S	-68.04	-68.92	5.41	-4.52	-13	-55.04
1559.00	H	-54.98	-54.92	6.20	-6.26	-13	-41.98
2398.50	H	-56.99	-57.73	8.45	-7.71	-13	-43.99

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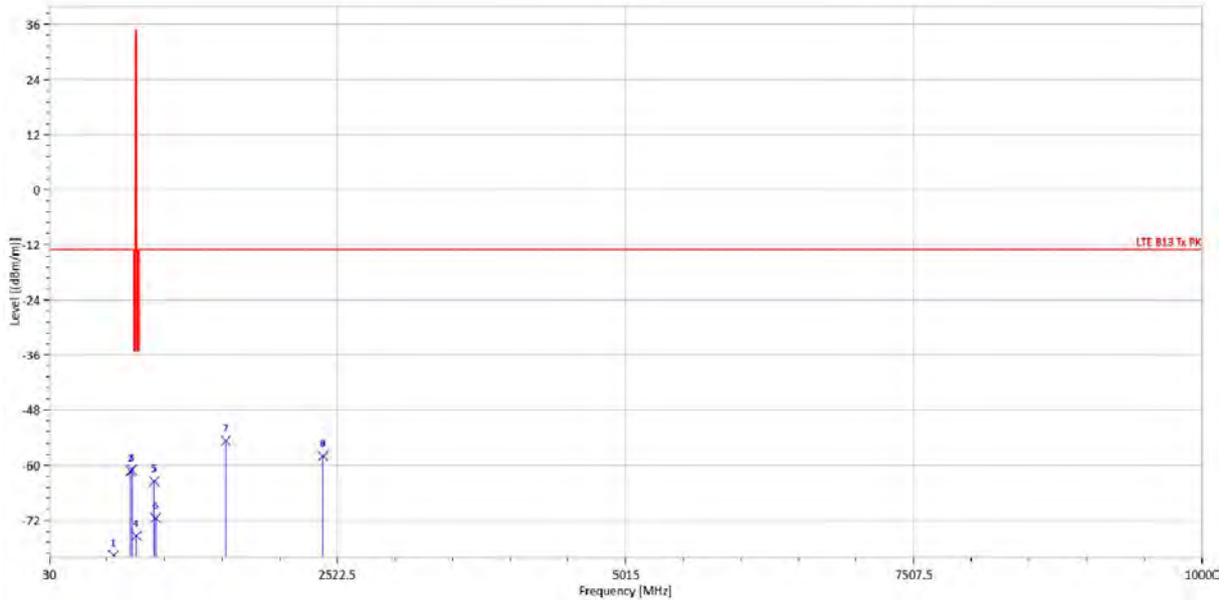
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
585.81	S	-79.63	-80.34	4.22	-3.51	-13	-66.63
730.34	S	-61.26	-62.48	5.12	-3.90	-13	-48.26
747.80	S	-61.05	-62.27	5.16	-3.93	-13	-48.05
784.66	S	-75.36	-76.49	5.20	-4.07	-13	-62.36
937.92	S	-63.52	-64.40	5.37	-4.49	-13	-50.52
949.56	S	-71.47	-72.36	5.41	-4.52	-13	-58.47
1559.00	H	-54.70	-54.64	6.20	-6.26	-13	-41.70
2398.50	H	-58.01	-58.75	8.45	-7.71	-13	-45.01

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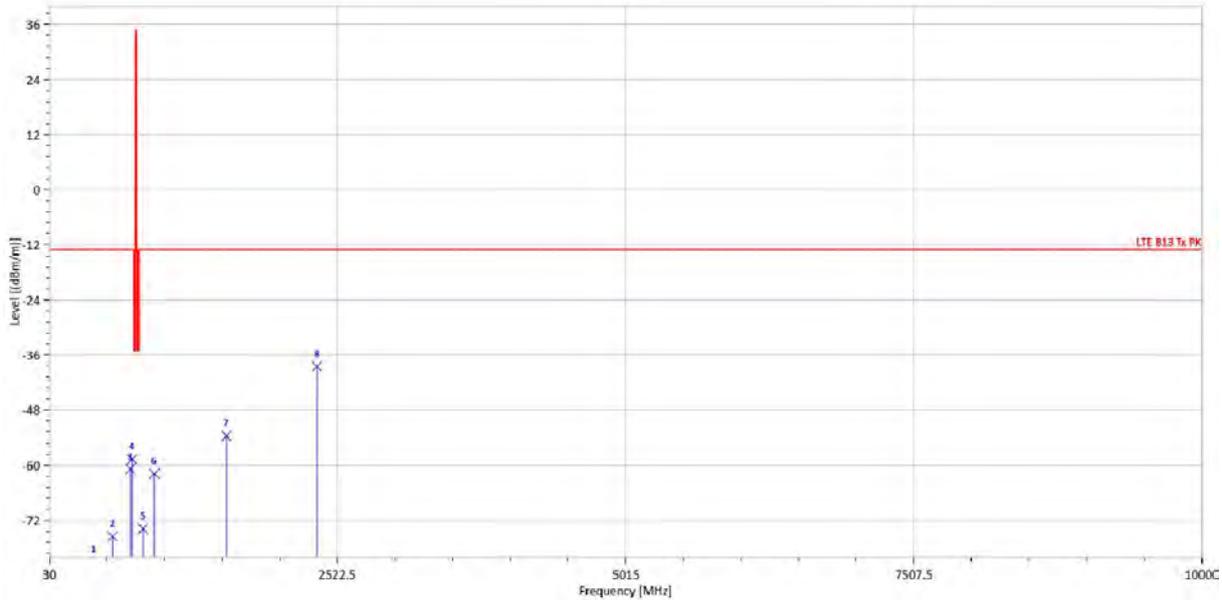
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
413.15	S	-80.89	-81.28	3.31	-2.93	-13	-67.89
576.11	S	-75.49	-76.16	4.15	-3.48	-13	-62.49
730.34	S	-60.81	-62.03	5.12	-3.90	-13	-47.81
746.83	S	-58.72	-59.94	5.15	-3.93	-13	-45.72
839.95	S	-73.81	-74.65	5.08	-4.24	-13	-60.81
938.89	S	-61.84	-62.72	5.37	-4.50	-13	-48.84
1564.00	H	-53.62	-53.56	6.22	-6.27	-13	-40.62
2346.00	H	-38.46	-39.22	8.40	-7.64	-13	-25.46

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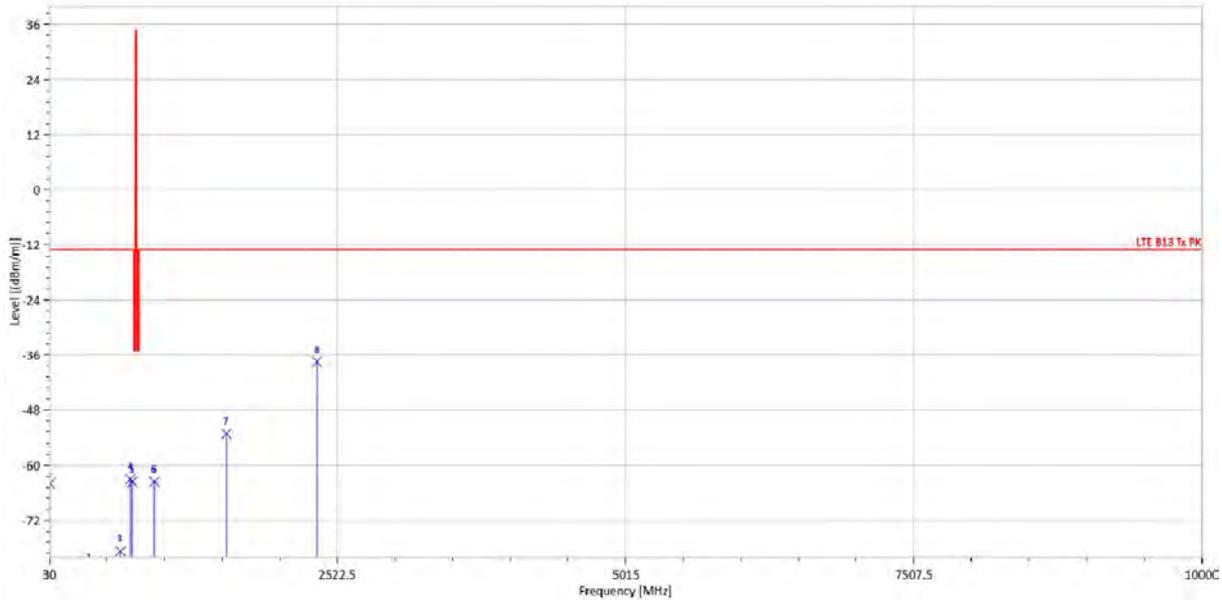
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
34.85	S	-63.94	-44.81	-18.29	-0.84	-13	-50.94
368.53	S	-82.72	-83.33	3.35	-2.74	-13	-69.72
645.95	S	-78.74	-79.65	4.60	-3.69	-13	-65.74
730.34	S	-63.05	-64.27	5.12	-3.90	-13	-50.05
747.80	S	-63.60	-64.82	5.16	-3.93	-13	-50.60
938.89	S	-63.58	-64.45	5.37	-4.50	-13	-50.58
1564.00	H	-53.19	-53.14	6.22	-6.27	-13	-40.19
2346.00	H	-37.47	-38.23	8.40	-7.64	-13	-24.47

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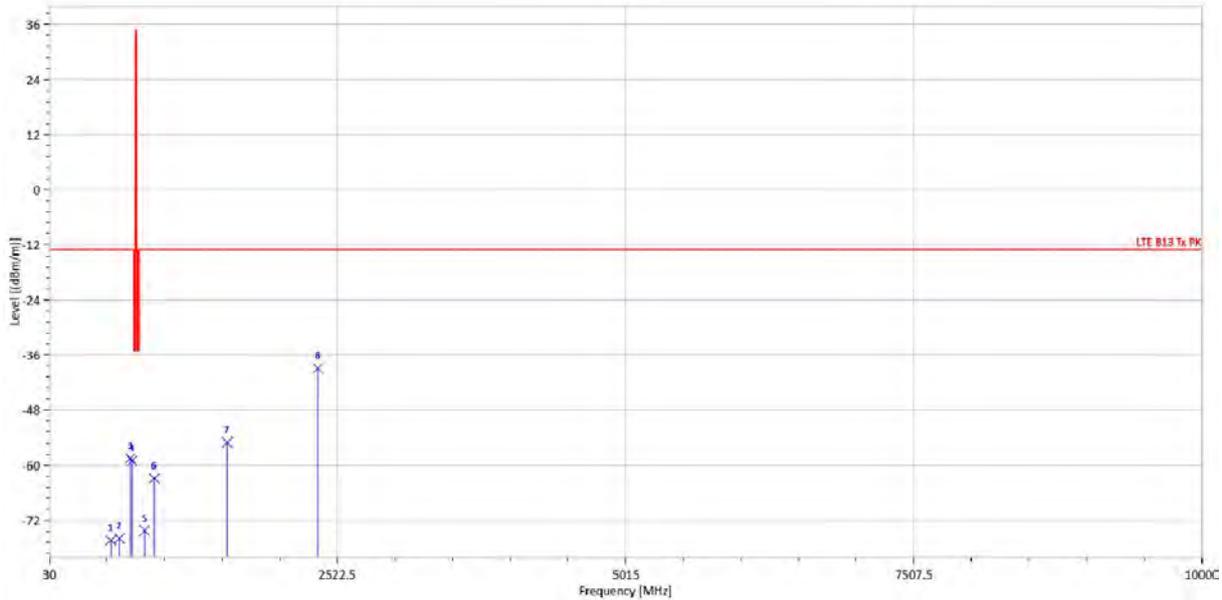
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
562.53	S	-76.37	-76.99	4.06	-3.44	-13	-63.37
637.22	S	-75.95	-76.83	4.54	-3.66	-13	-62.95
730.34	S	-58.45	-59.67	5.12	-3.90	-13	-45.45
746.83	S	-59.04	-60.27	5.15	-3.93	-13	-46.04
853.53	S	-74.23	-75.01	5.06	-4.28	-13	-61.23
938.89	S	-62.86	-63.74	5.37	-4.50	-13	-49.86
1569.00	H	-55.03	-54.99	6.24	-6.28	-13	-42.03
2353.50	H	-38.91	-39.66	8.40	-7.65	-13	-25.91

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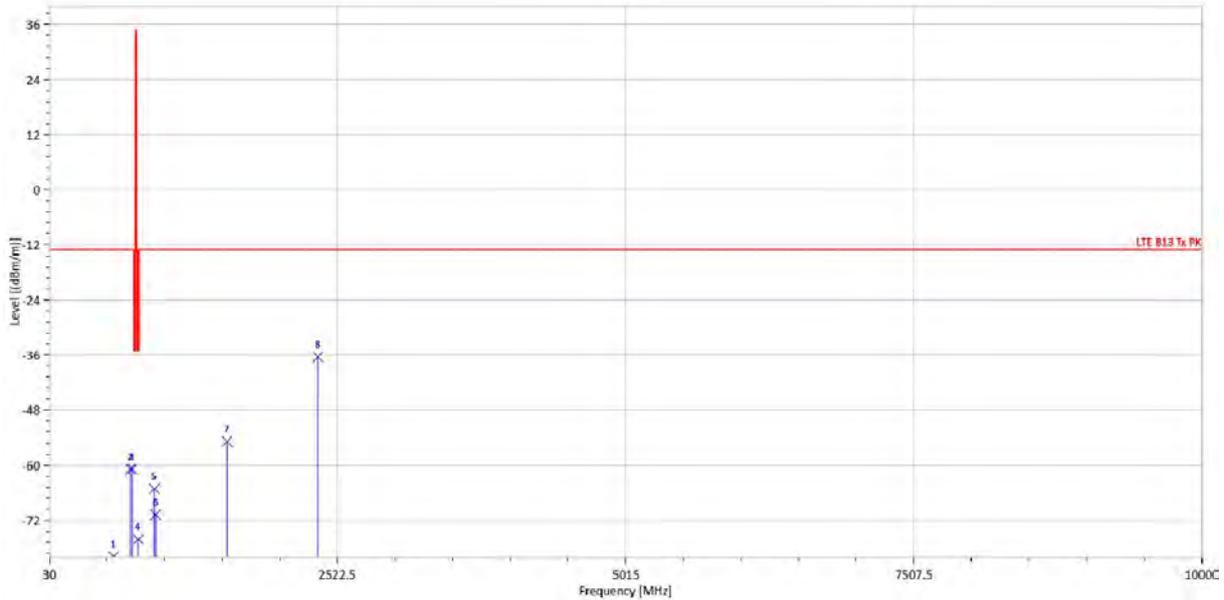
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
585.81	S	-79.94	-80.65	4.22	-3.51	-13	-66.94
730.34	S	-60.83	-62.05	5.12	-3.90	-13	-47.83
747.80	S	-60.84	-62.06	5.16	-3.93	-13	-47.84
800.18	S	-76.17	-77.28	5.22	-4.11	-13	-63.17
938.89	S	-65.09	-65.97	5.37	-4.50	-13	-52.09
949.56	S	-70.76	-71.65	5.41	-4.52	-13	-57.76
1569.00	H	-54.84	-54.80	6.24	-6.28	-13	-41.84
2353.50	H	-36.44	-37.19	8.40	-7.65	-13	-23.44

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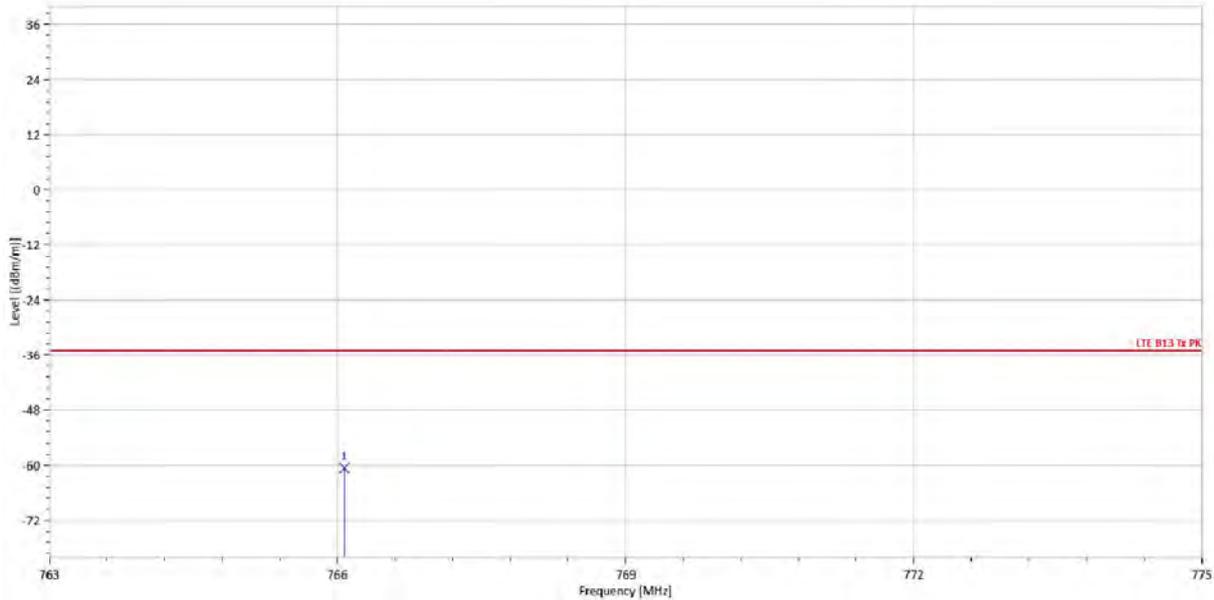
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
766.07	S	-60.62	-61.81	5.18	-3.99	-35	-25.62

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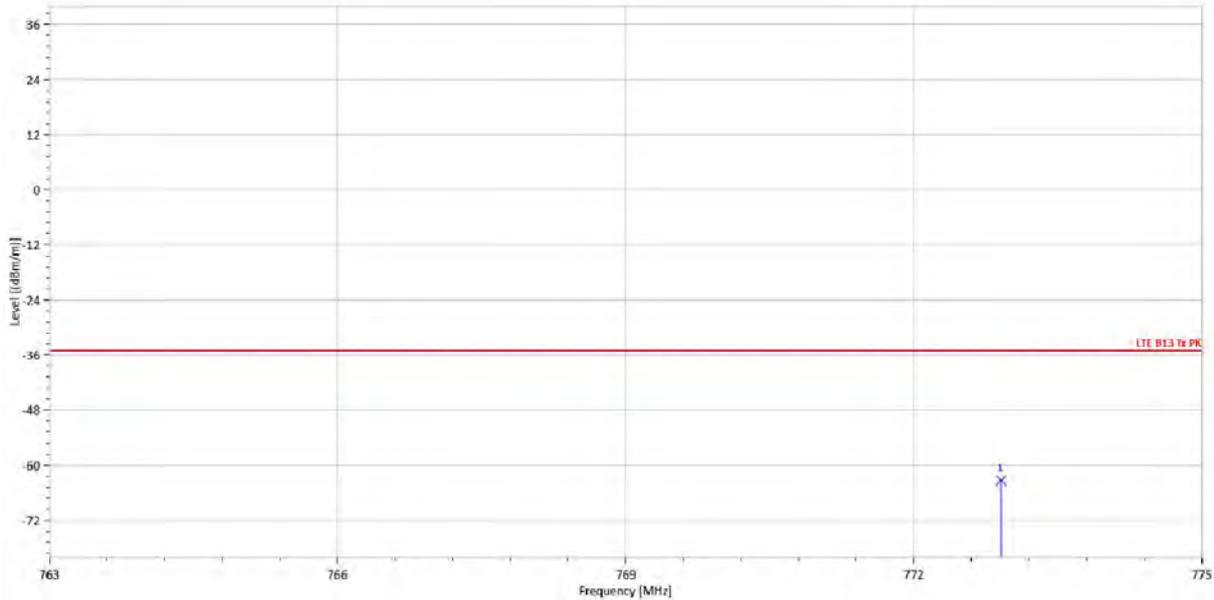
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Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
772.91	S	-63.28	-64.44	5.19	-4.02	-35	-28.28

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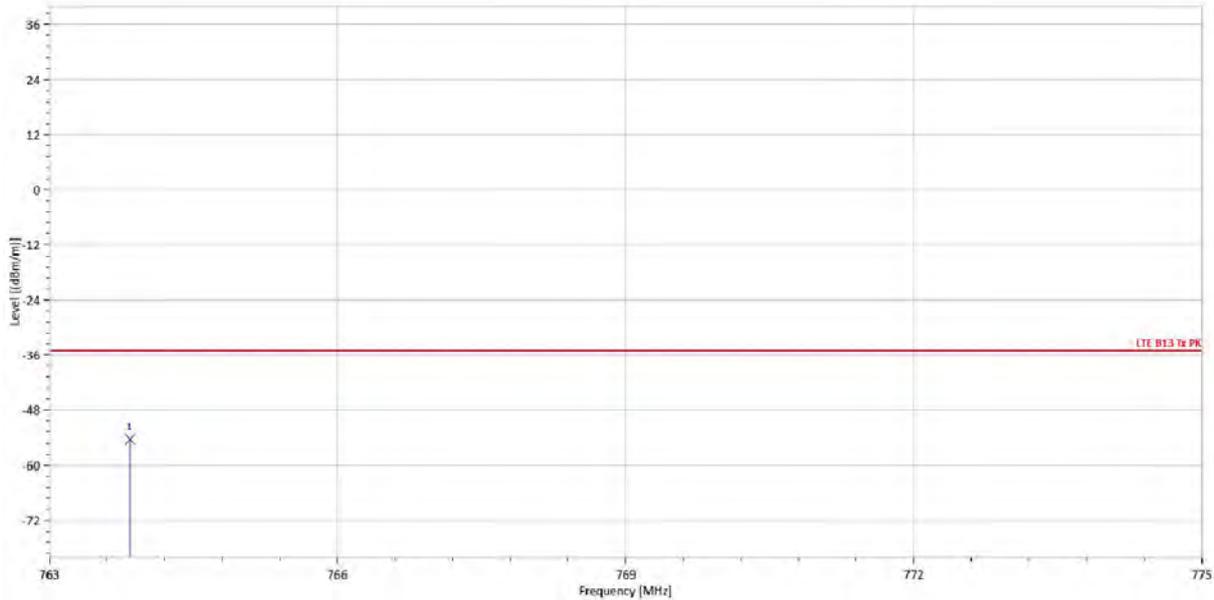
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
763.84	S	-54.36	-55.56	5.18	-3.99	-35	-19.36

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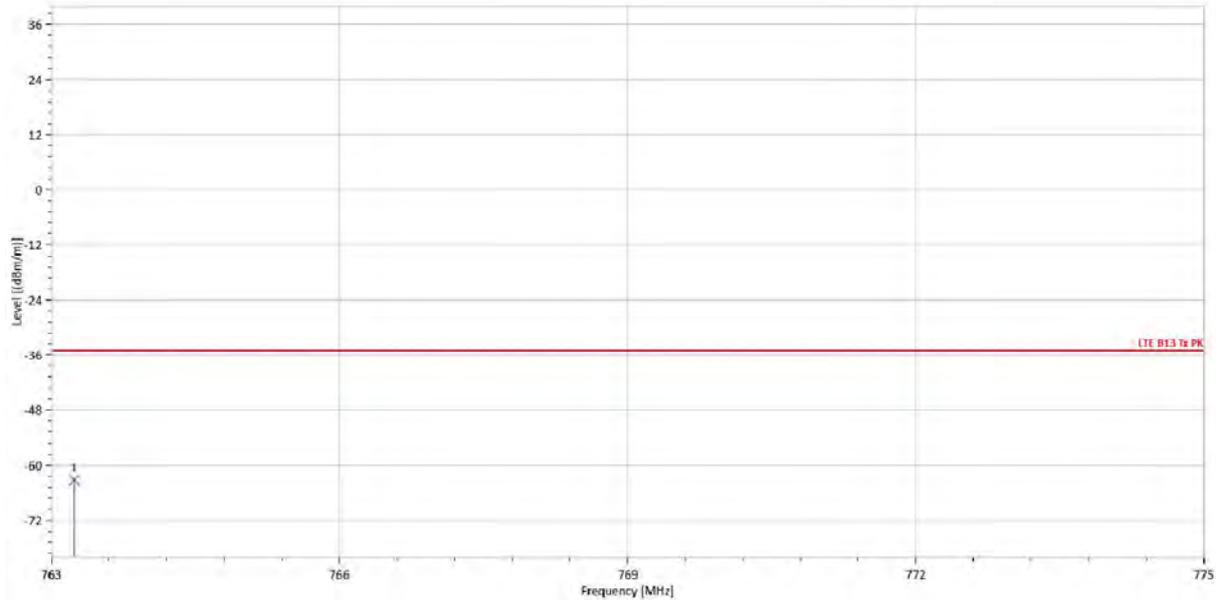
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Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
763.24	S	-63.22	-64.41	5.18	-3.98	-35	-28.22

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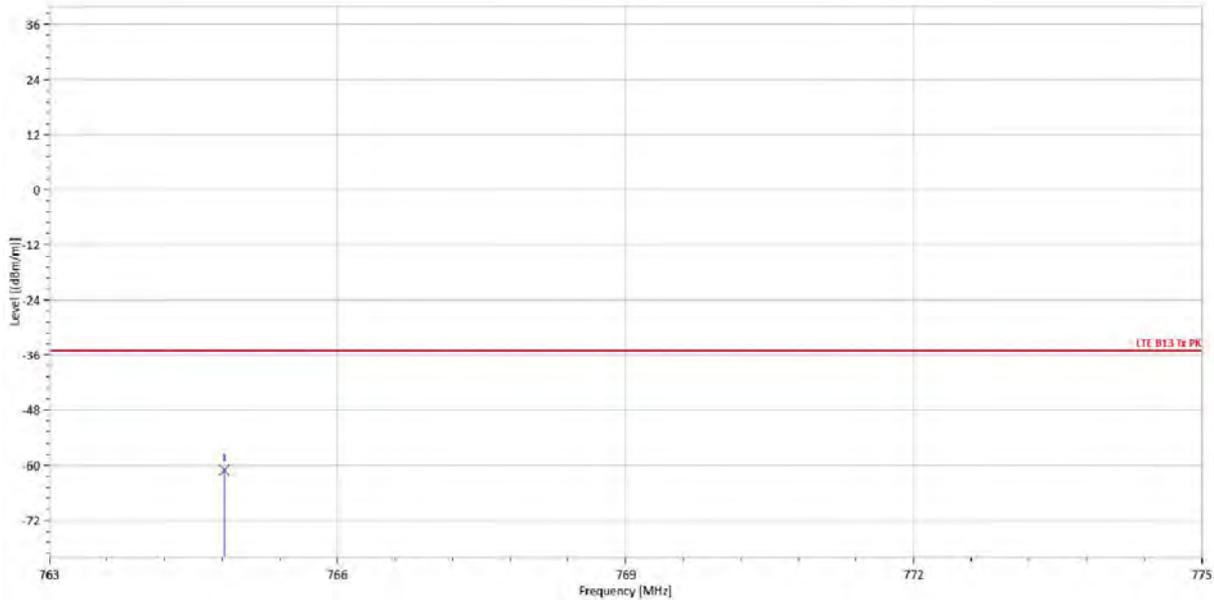
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
764.82	S	-61.09	-62.28	5.18	-3.99	-35	-26.09

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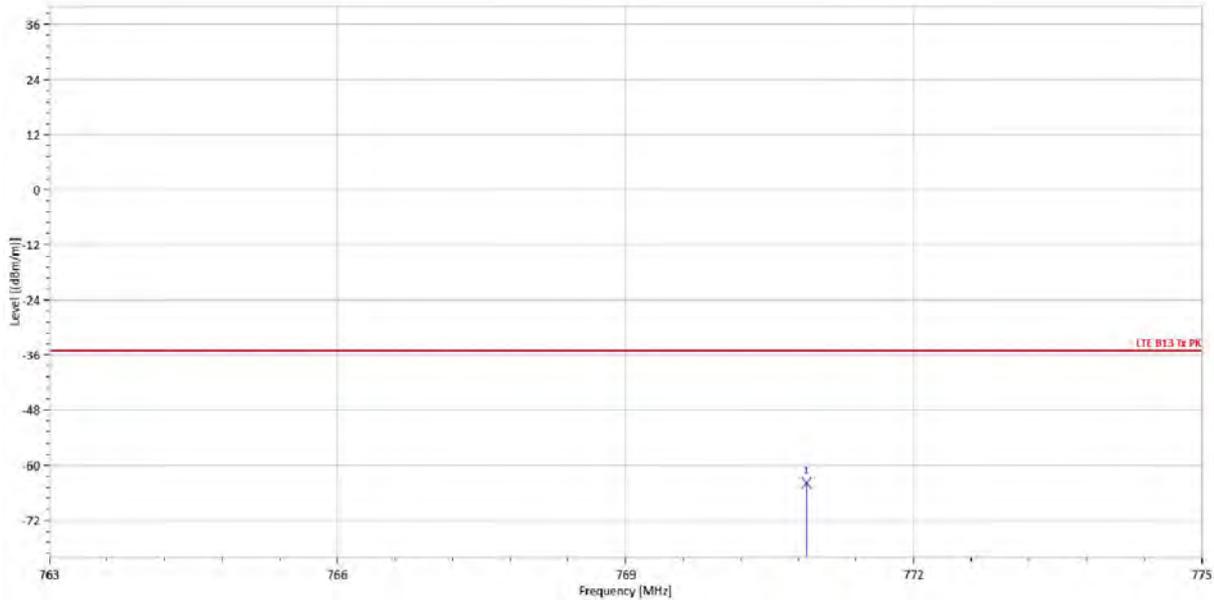
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	
			dBm	dBi	dB	dBm/m	dB
770.88	S	-63.83	-65.00	5.19	-4.01	-35	-28.83

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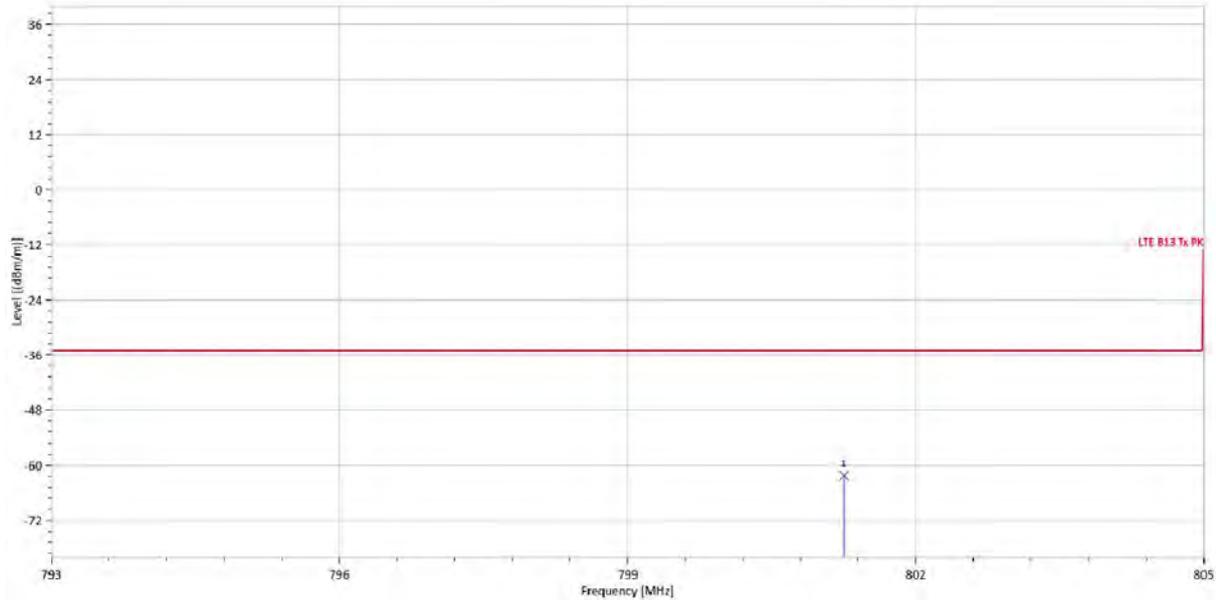
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
801.26	S	-62.29	-63.39	5.22	-4.11	-35	-27.29

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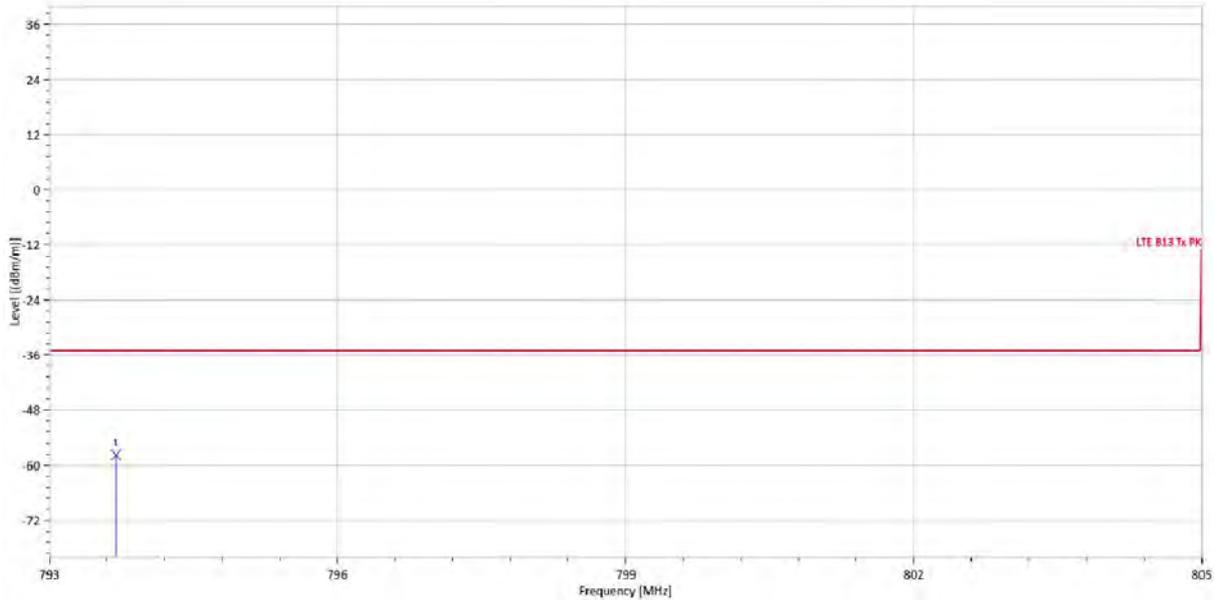
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
793.70	S	-57.77	-58.89	5.21	-4.10	-35	-22.77

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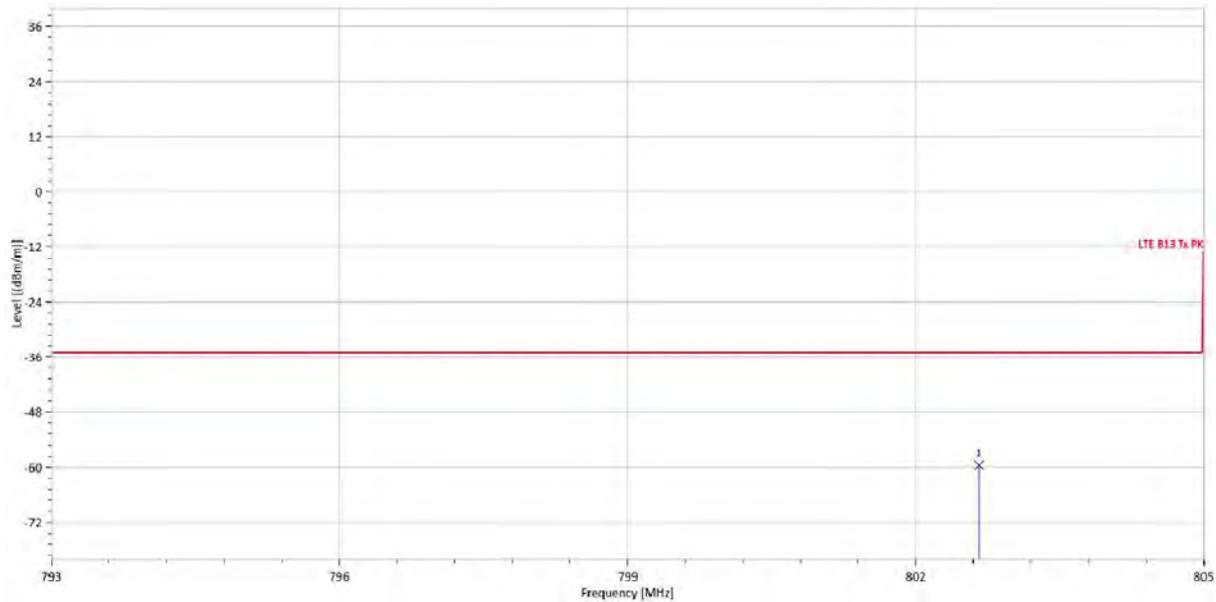
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
802.66	S	-59.63	-60.72	5.21	-4.12	-35	-24.63

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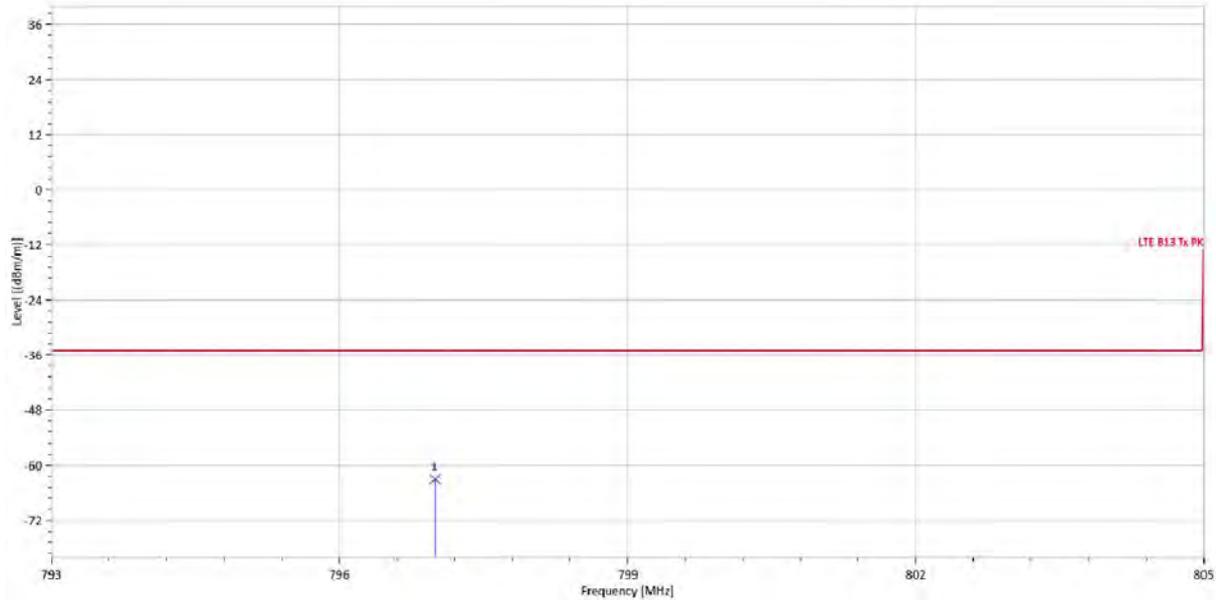
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
797.00	S	-63.04	-64.15	5.22	-4.10	-35	-28.04

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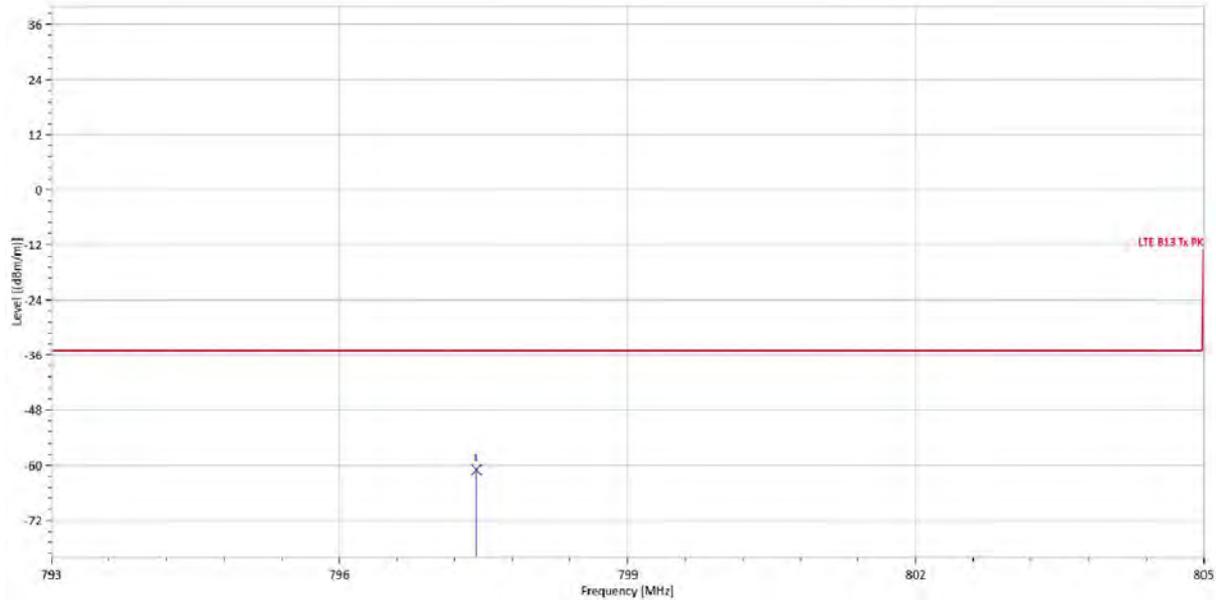
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
797.43	S	-61.00	-62.11	5.22	-4.10	-35	-26.00

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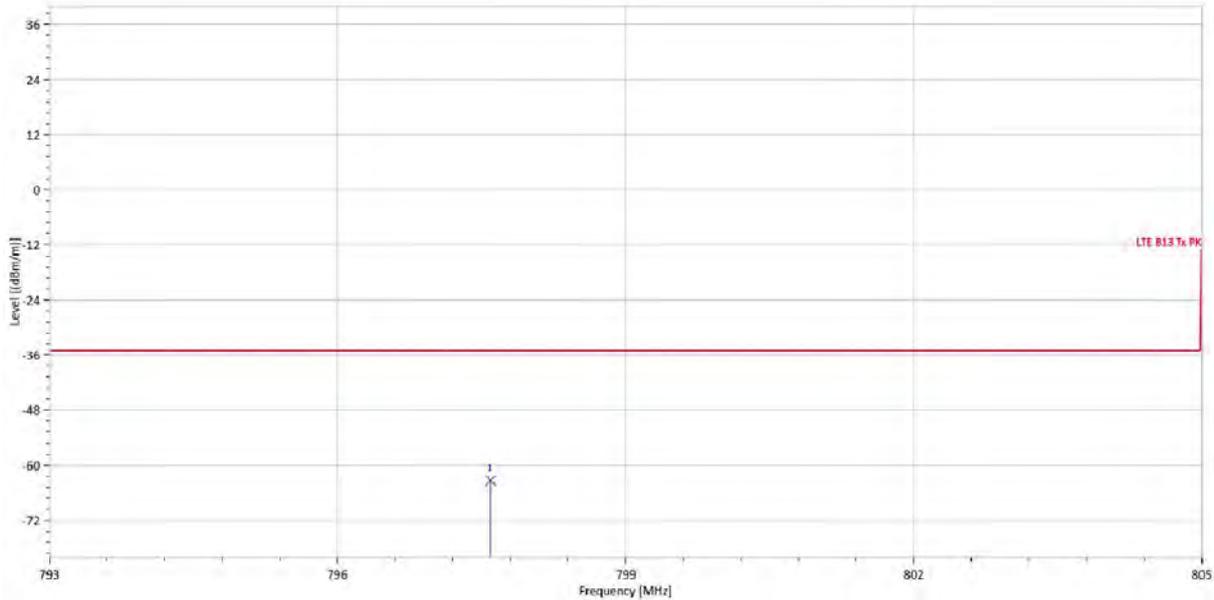
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Operation Mode :	LTEB13 5M 16QAM 1.0	Test Date :	2017/9/8
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
797.60	S	-63.32	-64.43	5.22	-4.11	-35	-28.32

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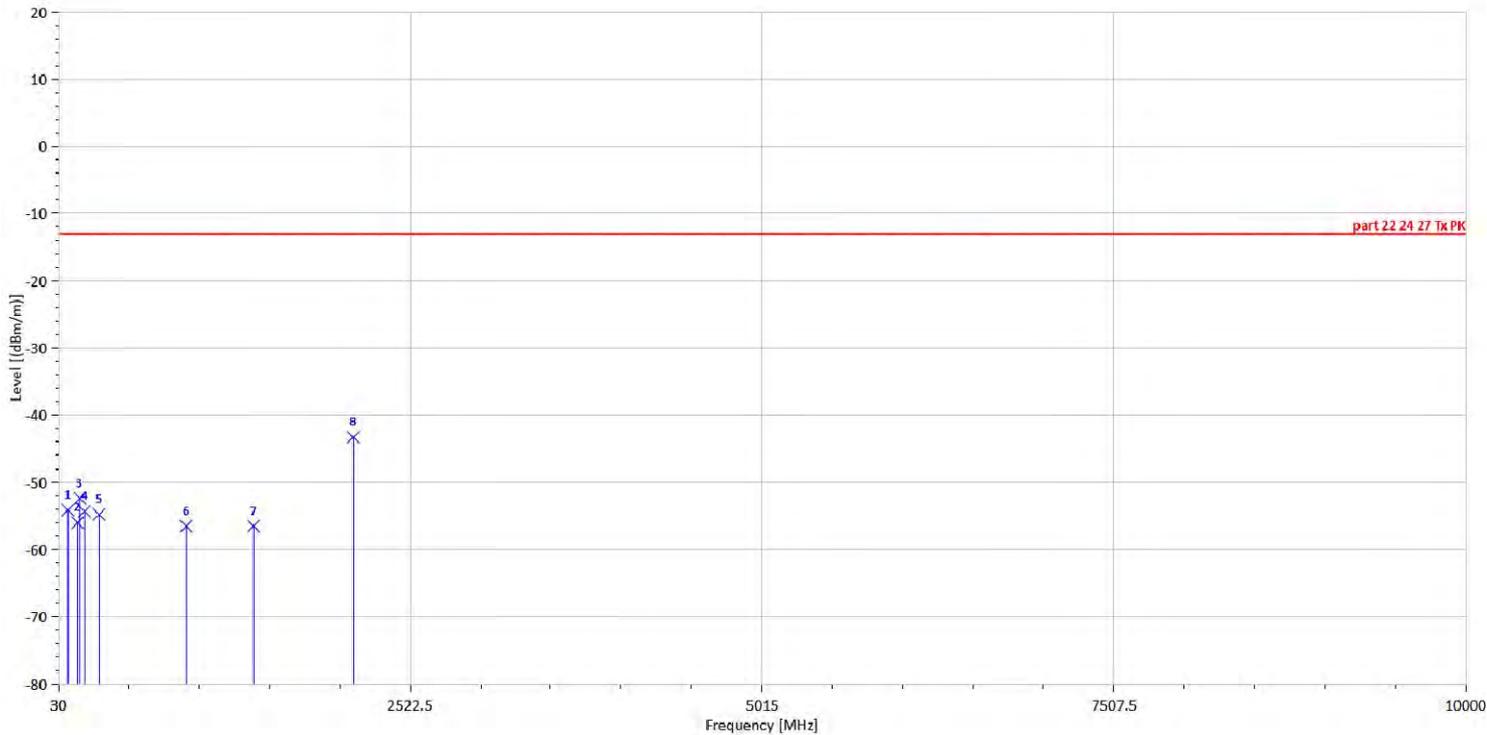
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Operation Mode :	LTEB17 5M 16QAM 1.0	Test Date :	2017/11/18
Fundamental Frequency :	706.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
97.90	S	-54.14	-49.66	-3.11	-1.36	-13.01	-41.13
166.77	S	-56.01	-56.38	2.17	-1.81	-13.01	-43.00
183.26	S	-52.38	-54.30	3.82	-1.90	-13.01	-39.37
215.27	S	-54.32	-56.26	4.01	-2.07	-13.01	-41.31
319.06	S	-54.81	-55.73	3.48	-2.56	-13.01	-41.80
935.98	S	-56.53	-57.41	5.36	-4.49	-13.01	-43.52
1413.00	H	-56.51	-56.11	5.53	-5.93	-13.01	-43.50
2119.50	H	-43.30	-44.16	8.17	-7.32	-13.01	-30.29

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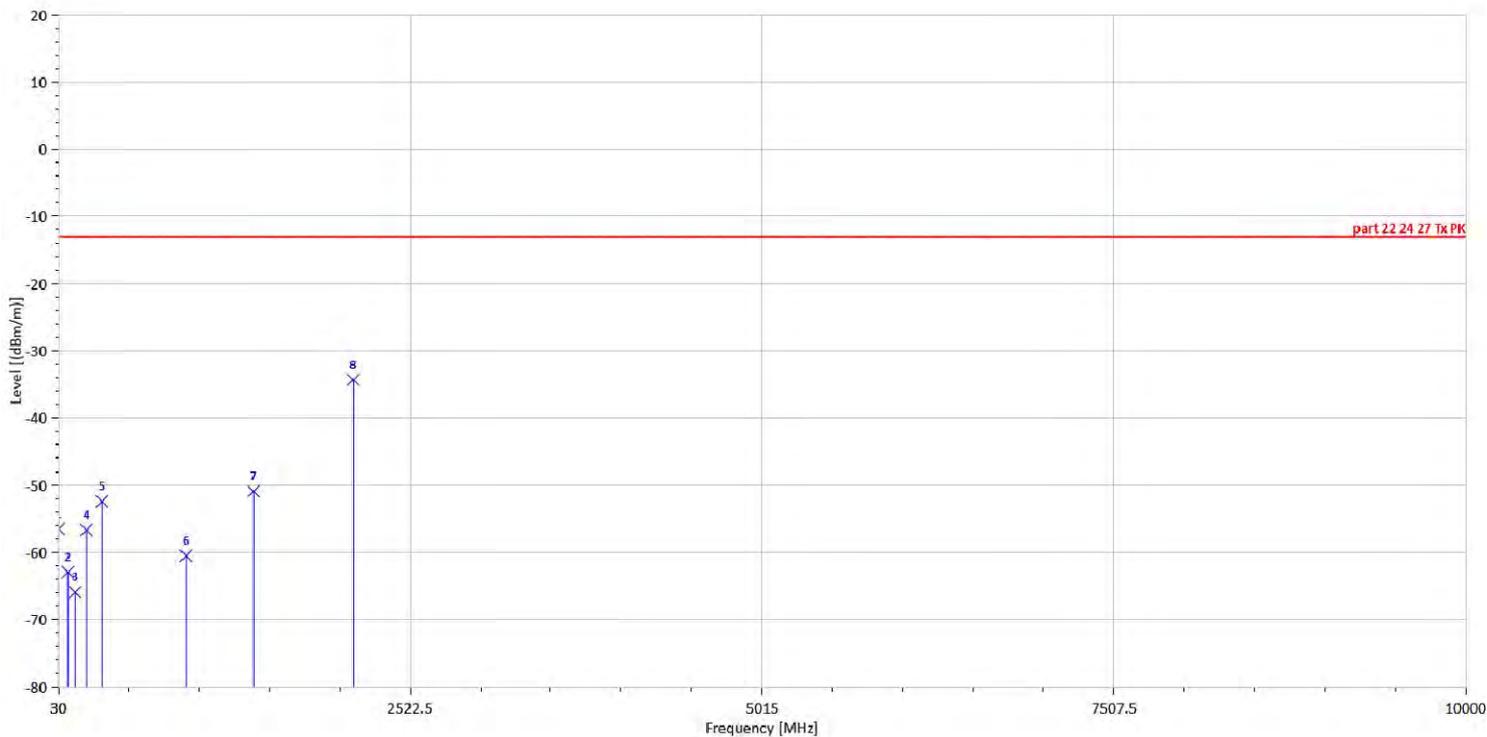
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Fundamental Frequency :	706.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-56.52	-35.72	-19.97	-0.83	-13.01	-43.51
97.90	S	-62.95	-58.47	-3.11	-1.36	-13.01	-49.94
149.31	S	-65.93	-64.40	0.18	-1.71	-13.01	-52.92
228.85	S	-56.69	-58.20	3.64	-2.13	-13.01	-43.68
339.43	S	-52.42	-53.23	3.45	-2.64	-13.01	-39.41
935.01	S	-60.50	-61.38	5.36	-4.49	-13.01	-47.49
1413.00	H	-50.92	-50.53	5.53	-5.93	-13.01	-37.91
2119.50	H	-34.30	-35.15	8.17	-7.32	-13.01	-21.29

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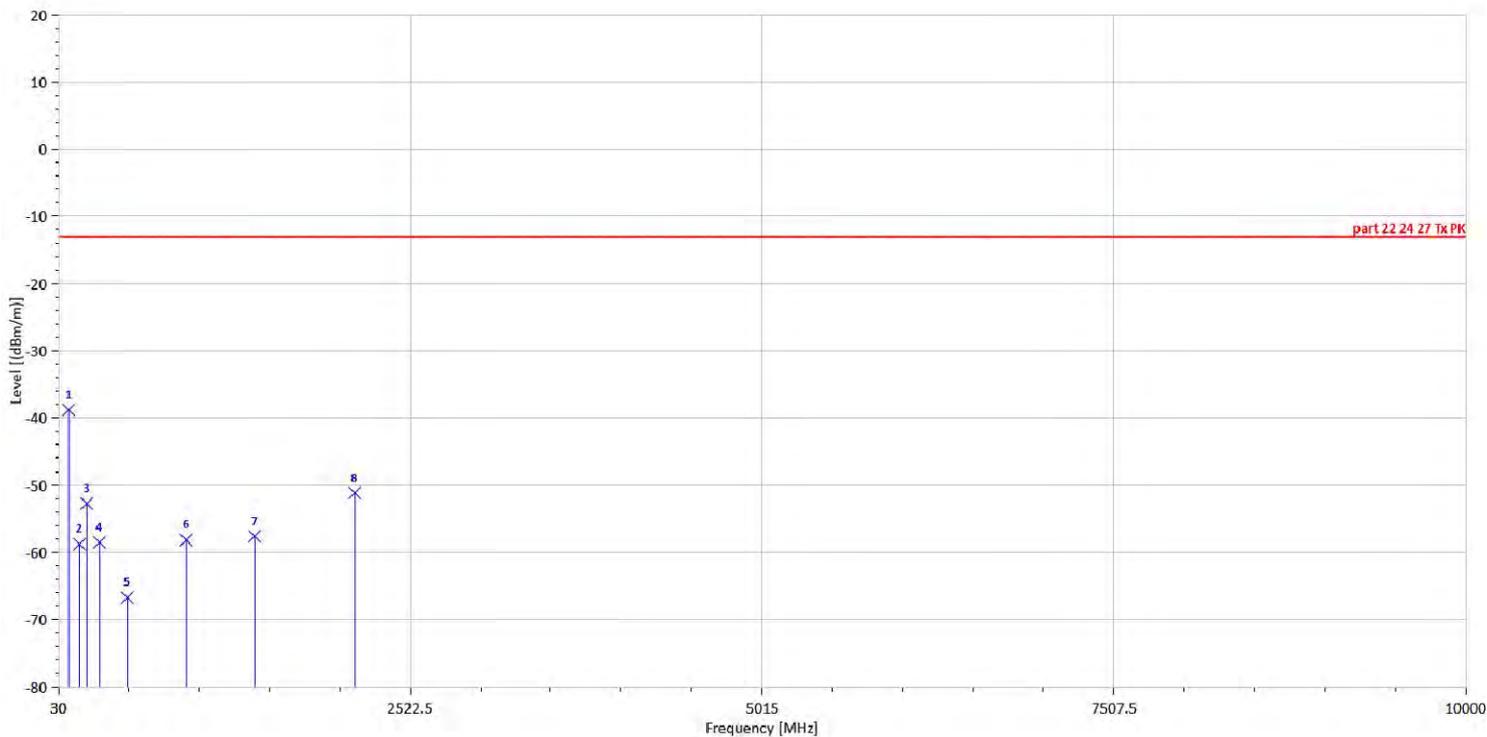
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Operation Mode :	LTEB17 5M 16QAM 1.0	Test Date :	2017/11/18
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
103.72	S	-38.81	-33.96	-3.44	-1.41	-13.01	-25.80
180.35	S	-58.79	-60.59	3.69	-1.88	-13.01	-45.78
231.76	S	-52.74	-54.11	3.51	-2.15	-13.01	-39.73
321.97	S	-58.51	-59.42	3.47	-2.57	-13.01	-45.50
518.88	S	-66.74	-67.44	4.01	-3.30	-13.01	-53.73
935.98	S	-58.17	-59.04	5.36	-4.49	-13.01	-45.16
1420.00	H	-57.60	-57.22	5.57	-5.95	-13.01	-44.59
2130.00	H	-51.14	-51.99	8.18	-7.34	-13.01	-38.13

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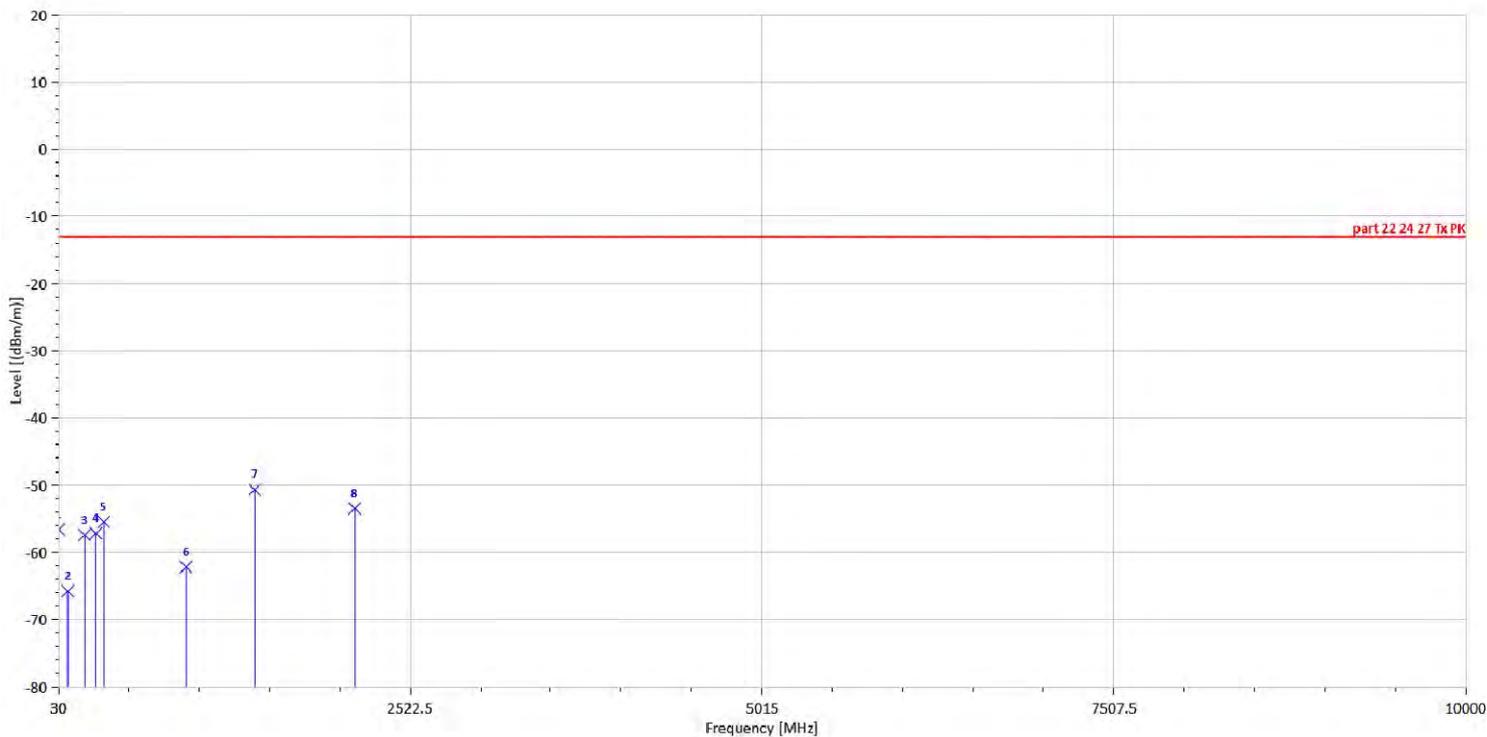
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Operation Mode :	LTEB17 5M 16QAM 1.0	Test Date :	2017/11/18
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.88	S	-56.62	-36.65	-19.13	-0.84	-13.01	-43.61
96.93	S	-65.79	-61.42	-3.01	-1.36	-13.01	-52.78
216.24	S	-57.42	-59.36	4.01	-2.07	-13.01	-44.41
296.75	S	-57.18	-58.20	3.47	-2.45	-13.01	-44.17
353.01	S	-55.47	-56.21	3.43	-2.69	-13.01	-42.46
935.01	S	-62.18	-63.05	5.36	-4.49	-13.01	-49.17
1420.00	H	-50.67	-50.29	5.57	-5.95	-13.01	-37.66
2130.00	H	-53.45	-54.29	8.18	-7.34	-13.01	-40.44

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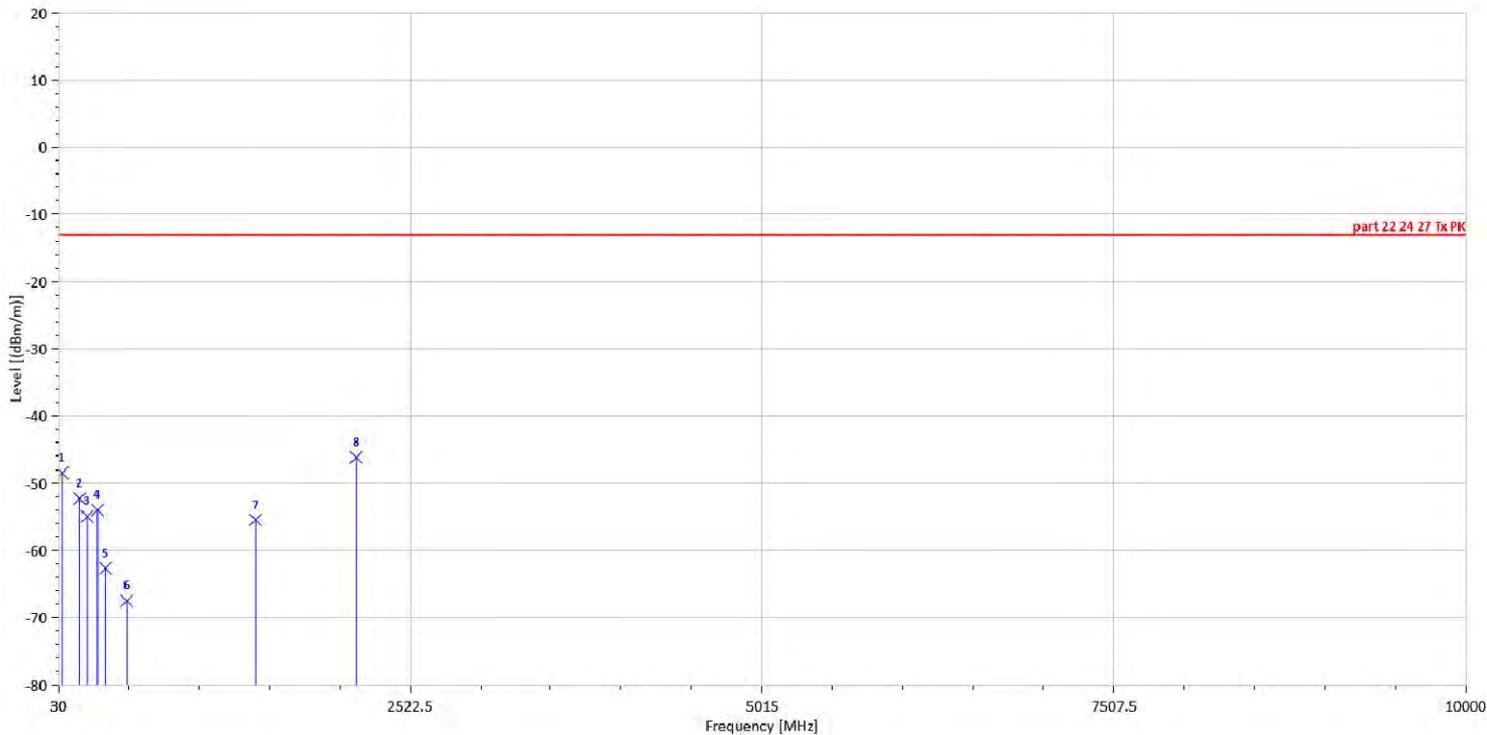
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Operation Mode :	LTEB17 5M 16QAM 1.0	Test Date :	2017/11/18
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBd/dBi	dB	dBm/m	
58.13	S	-48.49	-43.53	-3.92	-1.03	-13.01	-35.48
181.32	S	-52.30	-54.14	3.73	-1.89	-13.01	-39.29
234.67	S	-54.96	-56.19	3.39	-2.16	-13.01	-41.95
308.39	S	-54.00	-54.99	3.49	-2.50	-13.01	-40.99
364.65	S	-62.65	-63.30	3.37	-2.73	-13.01	-49.64
515.00	S	-67.52	-68.25	4.02	-3.29	-13.01	-54.51
1427.00	H	-55.46	-55.10	5.60	-5.96	-13.01	-42.45
2140.50	H	-46.17	-47.01	8.19	-7.35	-13.01	-33.16

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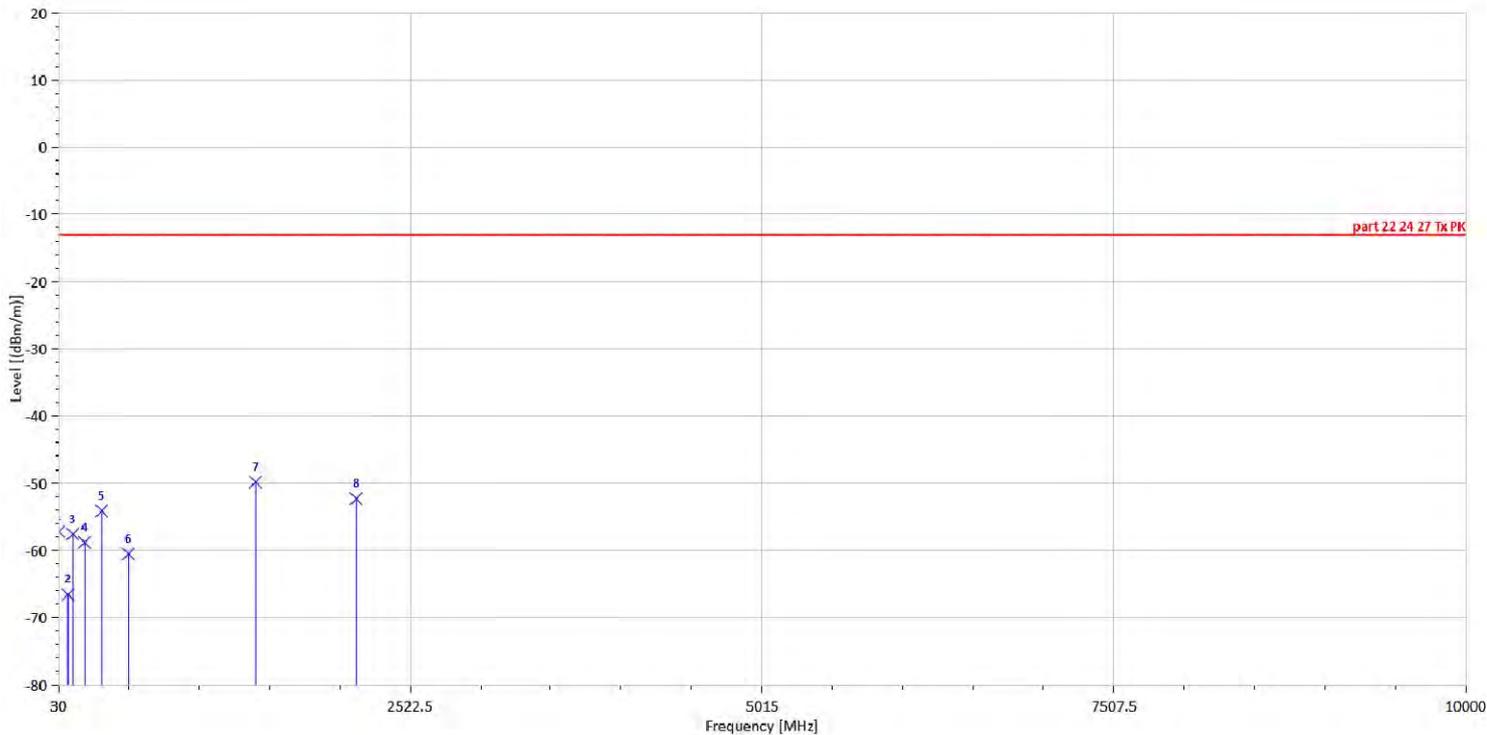
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Operation Mode :	LTEB17 5M 16QAM 1.0	Test Date :	2017/11/18
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.88	S	-57.22	-37.25	-19.13	-0.84	-13.01	-44.21
97.90	S	-66.57	-62.09	-3.11	-1.36	-13.01	-53.56
132.82	S	-57.58	-53.87	-2.11	-1.60	-13.01	-44.57
216.24	S	-58.83	-60.76	4.01	-2.07	-13.01	-45.82
337.49	S	-54.13	-54.95	3.46	-2.63	-13.01	-41.12
526.64	S	-60.51	-61.18	4.00	-3.34	-13.01	-47.50
1427.00	H	-49.84	-49.47	5.60	-5.96	-13.01	-36.83
2140.50	H	-52.32	-53.16	8.19	-7.35	-13.01	-39.31

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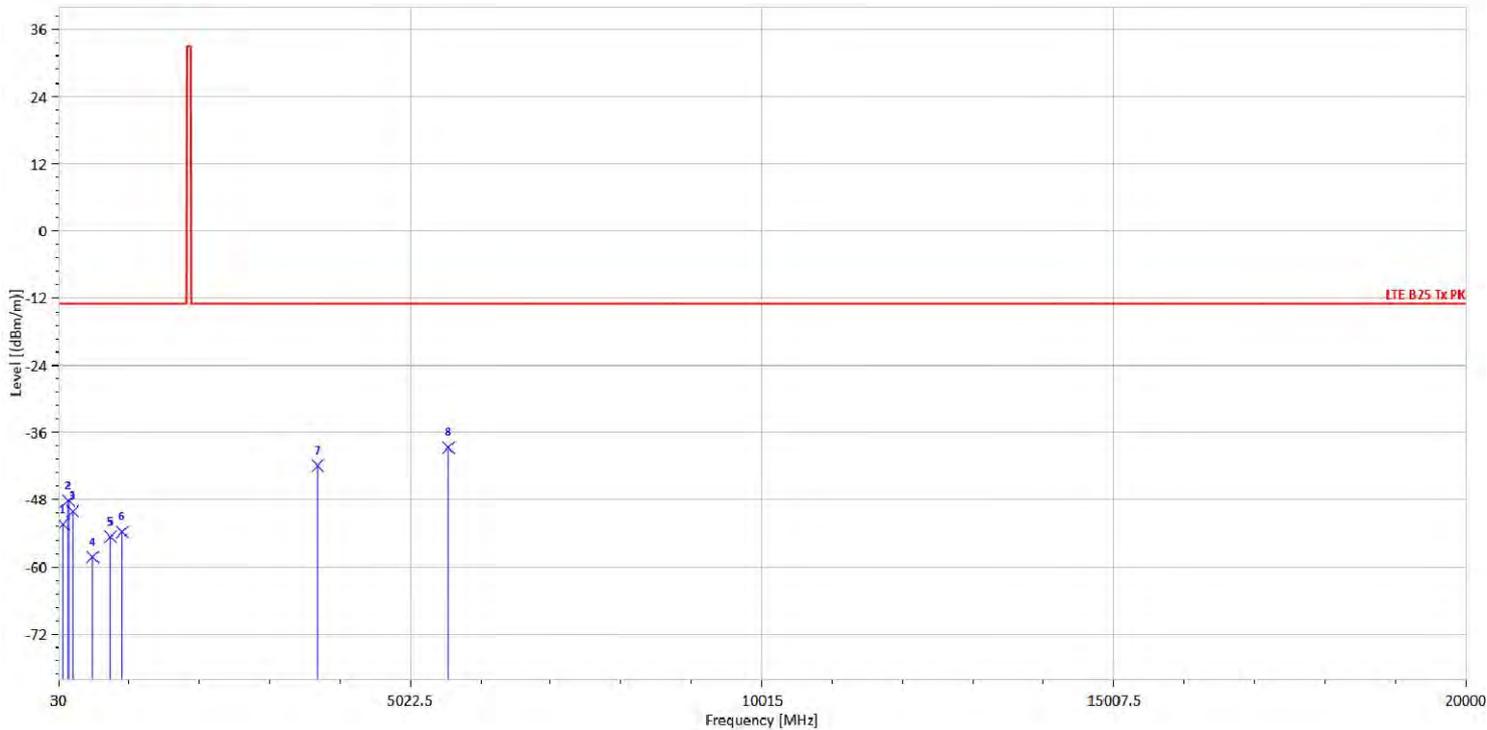
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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1855 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
97.90	S	-52.36	-49.95	-1.04	-1.36	-13	-39.36
175.50	S	-48.16	-51.22	4.92	-1.86	-13	-35.16
235.64	S	-50.07	-53.71	5.80	-2.17	-13	-37.07
515.97	S	-58.24	-61.44	6.50	-3.29	-13	-45.24
770.11	S	-54.64	-58.36	7.74	-4.01	-13	-41.64
936.95	S	-53.77	-57.23	7.95	-4.49	-13	-40.77
3710.00	H	-41.93	-45.45	12.43	-8.91	-13	-28.93
5565.00	H	-38.68	-41.35	13.01	-10.34	-13	-25.68

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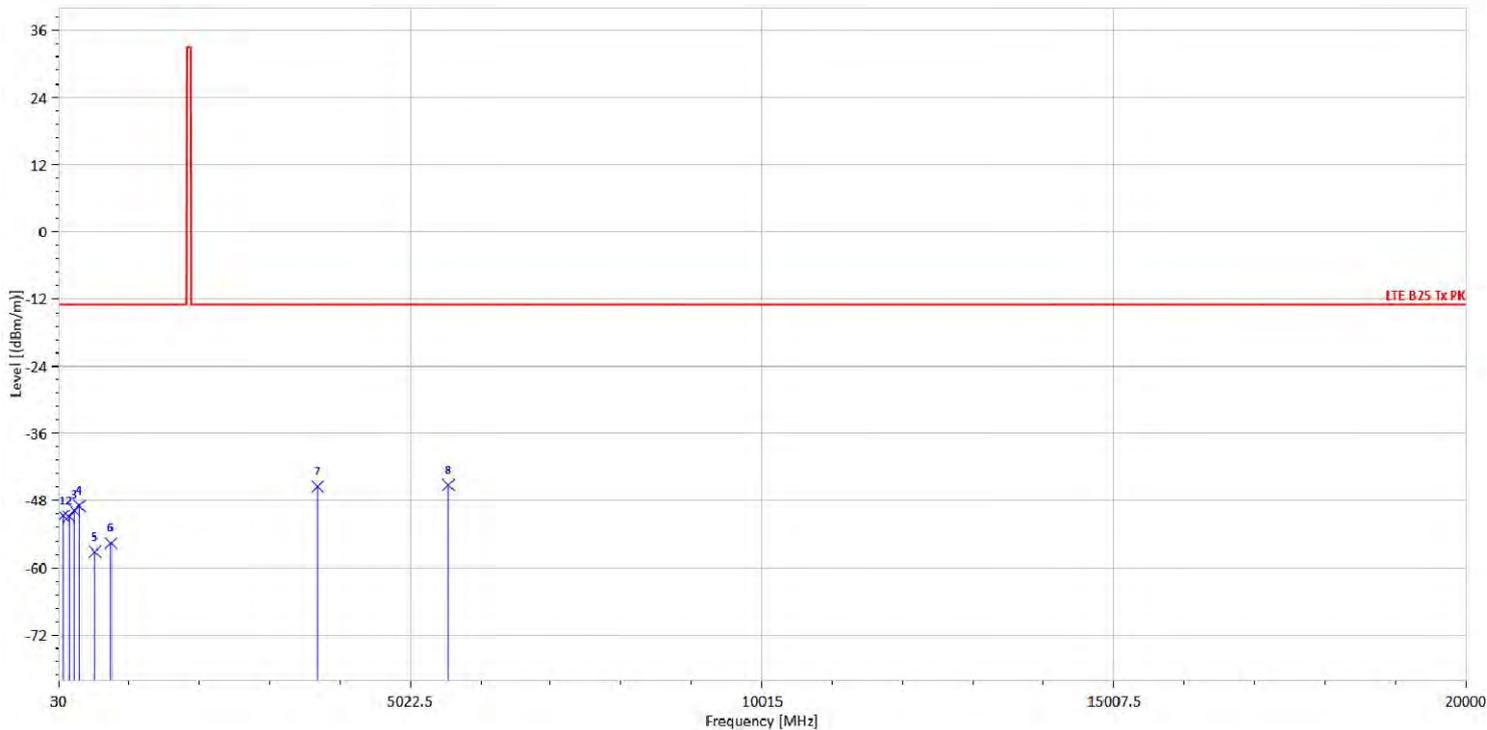
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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1855 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
100.81	S	-50.70	-48.00	-1.32	-1.39	-13	-37.70
181.32	S	-50.87	-54.46	5.48	-1.89	-13	-37.87
254.07	S	-49.68	-52.31	4.90	-2.27	-13	-36.68
328.76	S	-48.93	-52.27	5.93	-2.60	-13	-35.93
548.95	S	-57.14	-60.25	6.52	-3.41	-13	-44.14
776.90	S	-55.62	-59.33	7.74	-4.04	-13	-42.62
3710.00	H	-45.50	-49.02	12.43	-8.91	-13	-32.50
5565.00	H	-45.21	-47.88	13.01	-10.34	-13	-32.21

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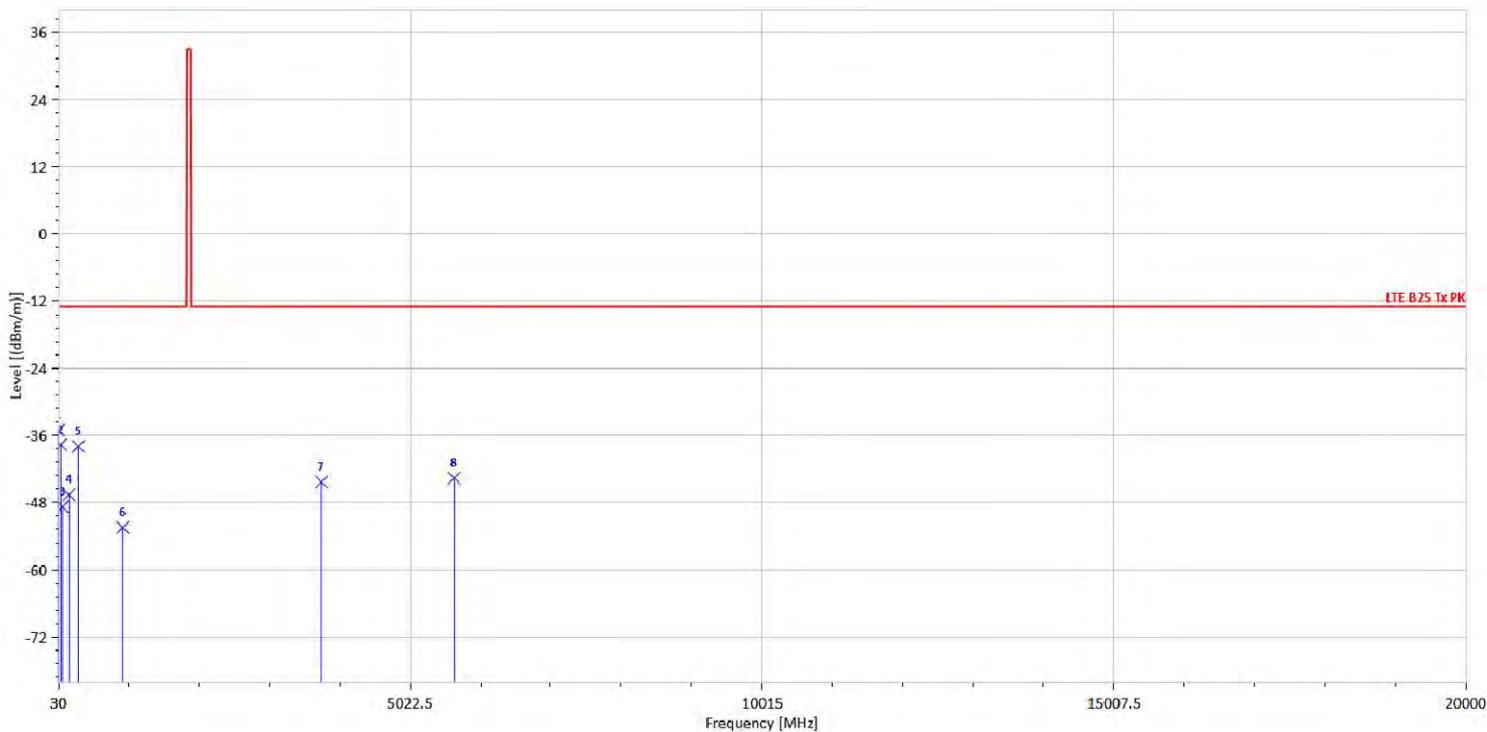
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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1882.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
31.94	S	-35.07	-15.46	-18.78	-0.83	-13	-22.07
66.86	S	-37.66	-36.24	-0.31	-1.11	-13	-24.66
91.11	S	-48.74	-47.20	-0.24	-1.31	-13	-35.74
181.32	S	-46.60	-50.19	5.48	-1.89	-13	-33.60
314.21	S	-37.97	-41.33	5.89	-2.53	-13	-24.97
944.71	S	-52.47	-55.92	7.96	-4.51	-13	-39.47
3765.00	H	-44.35	-47.86	12.46	-8.95	-13	-31.35
5647.50	H	-43.63	-46.25	13.03	-10.41	-13	-30.63

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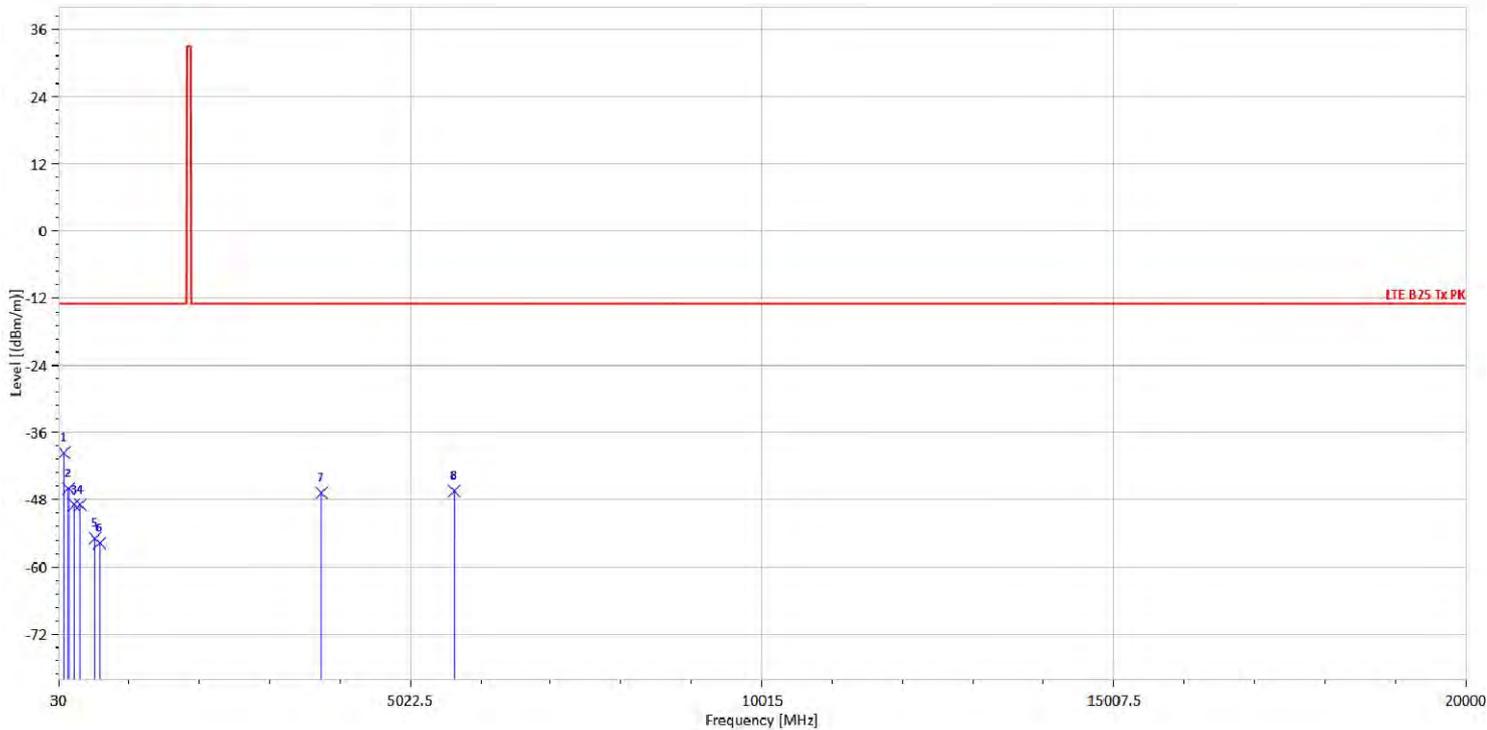
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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1882.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-39.61	-36.56	-1.59	-1.46	-13	-26.61
174.53	S	-46.01	-48.97	4.82	-1.85	-13	-33.01
253.10	S	-48.87	-51.57	4.96	-2.27	-13	-35.87
340.40	S	-48.89	-52.22	5.96	-2.64	-13	-35.89
550.89	S	-54.90	-58.02	6.53	-3.41	-13	-41.90
616.85	S	-55.76	-59.18	7.04	-3.62	-13	-42.76
3765.00	H	-46.78	-50.29	12.46	-8.95	-13	-33.78
5647.50	H	-46.42	-49.04	13.03	-10.41	-13	-33.42

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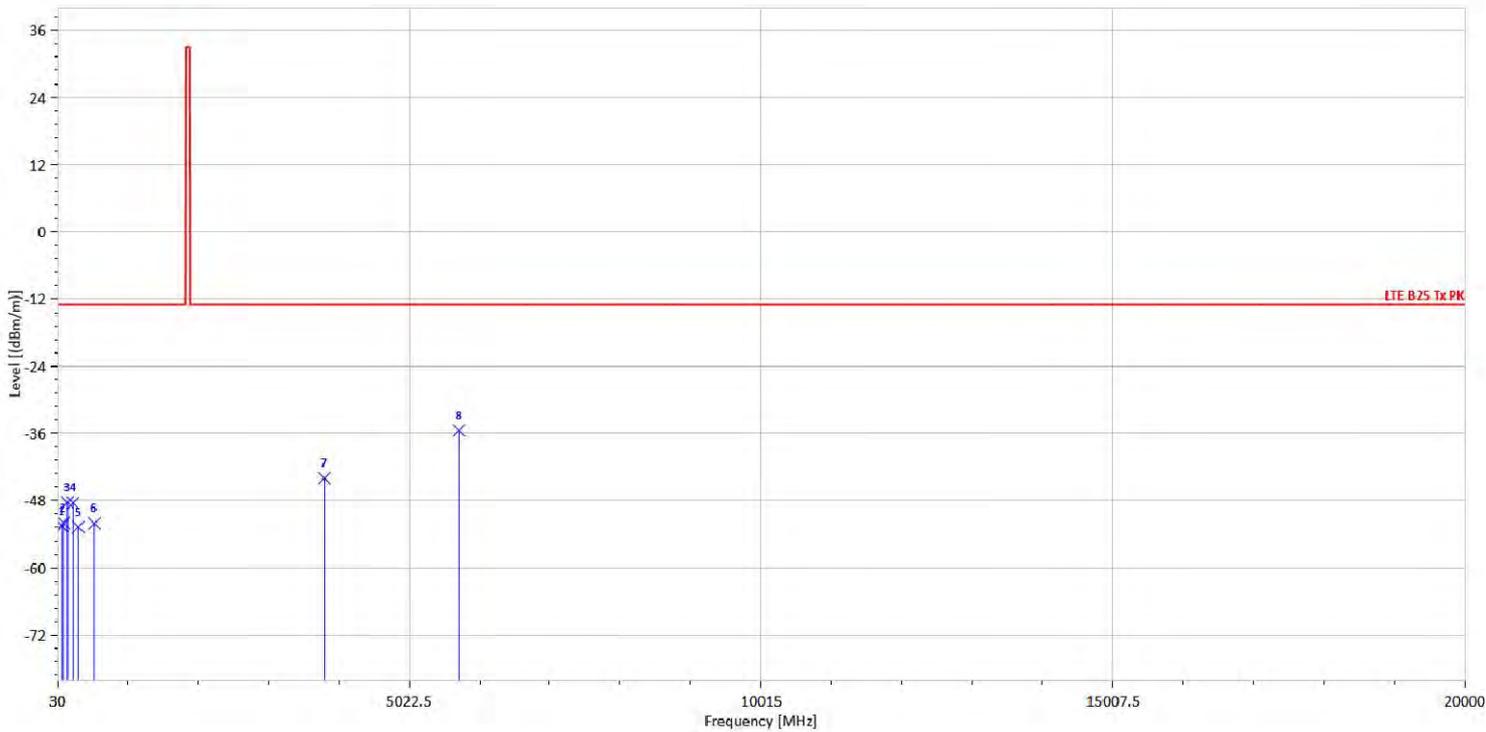
t (886-2) 2299-3279

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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1910 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
99.84	S	-52.55	-49.90	-1.27	-1.38	-13	-39.55
117.30	S	-51.98	-49.16	-1.33	-1.49	-13	-38.98
174.53	S	-48.33	-51.29	4.82	-1.85	-13	-35.33
253.10	S	-48.44	-51.14	4.96	-2.27	-13	-35.44
327.79	S	-52.73	-56.07	5.93	-2.59	-13	-39.73
557.68	S	-52.09	-55.26	6.59	-3.43	-13	-39.09
3820.00	H	-44.00	-47.50	12.49	-8.98	-13	-31.00
5730.00	H	-35.47	-38.04	13.05	-10.48	-13	-22.47

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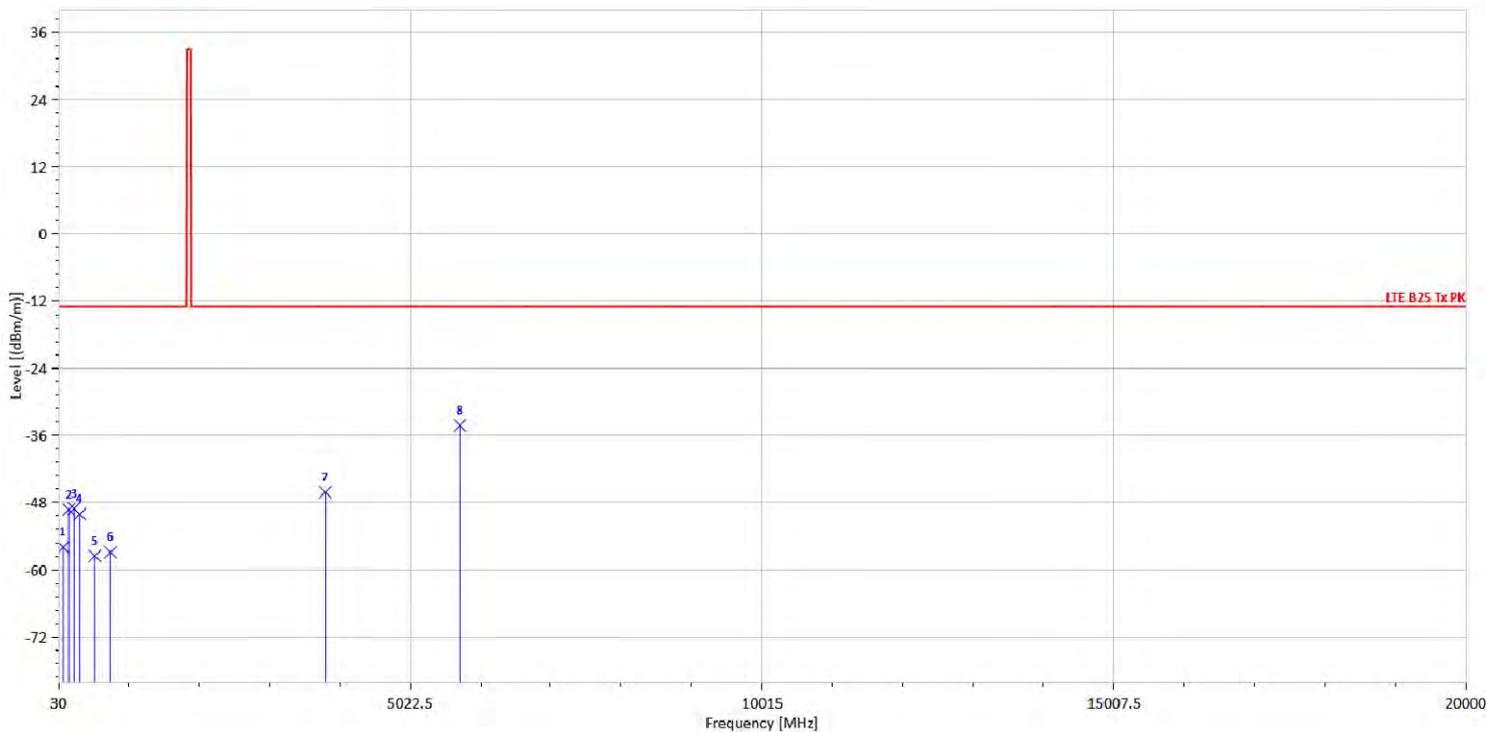
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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1910 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
100.81	S	-56.00	-53.29	-1.32	-1.39	-13	-43.00
179.38	S	-49.26	-52.73	5.35	-1.88	-13	-36.26
253.10	S	-49.08	-51.78	4.96	-2.27	-13	-36.08
334.58	S	-50.07	-53.40	5.95	-2.62	-13	-37.07
547.98	S	-57.53	-60.64	6.52	-3.40	-13	-44.53
771.08	S	-56.88	-60.60	7.74	-4.01	-13	-43.88
3820.00	H	-46.14	-49.65	12.49	-8.98	-13	-33.14
5730.00	H	-34.24	-36.81	13.05	-10.48	-13	-21.24

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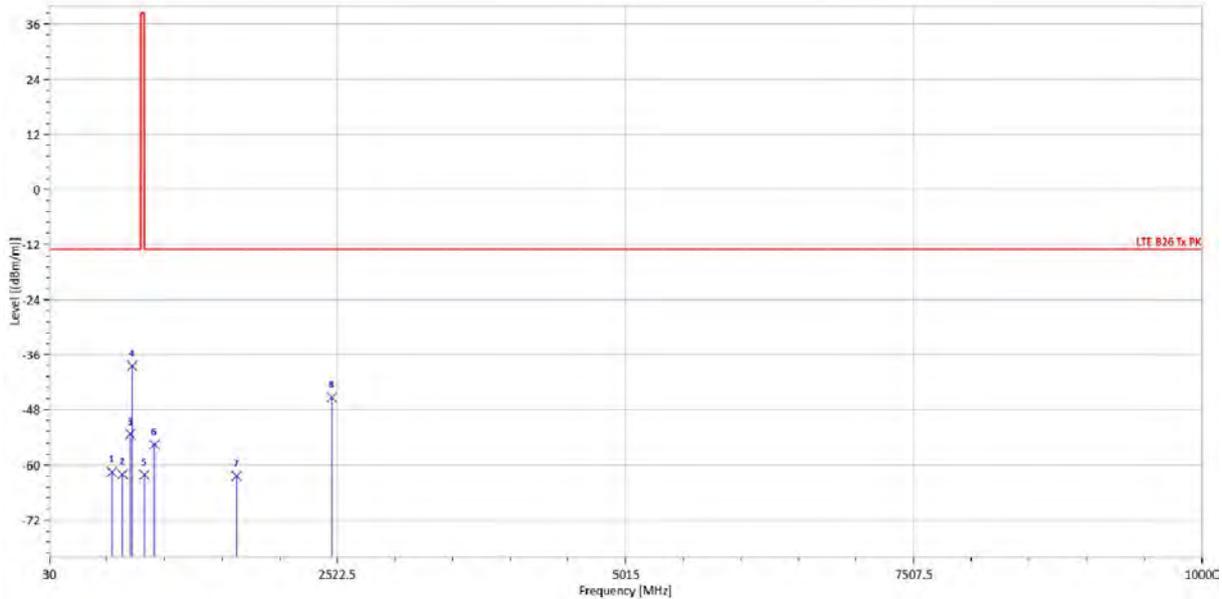
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
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	dBm	dBi	dB	@3m dBm/m	dB
571.26	S	-61.53	-62.18	4.12	-3.46	-13	-48.53
663.41	S	-62.04	-63.05	4.74	-3.73	-13	-49.04
729.37	S	-53.29	-54.51	5.12	-3.90	-13	-40.29
746.83	S	-38.38	-39.60	5.15	-3.93	-13	-25.38
851.59	S	-62.13	-62.91	5.06	-4.28	-13	-49.13
938.89	S	-55.55	-56.42	5.37	-4.50	-13	-42.55
1649.40	H	-62.37	-62.49	6.58	-6.45	-13	-49.37
2474.10	H	-45.26	-45.99	8.52	-7.80	-13	-32.26

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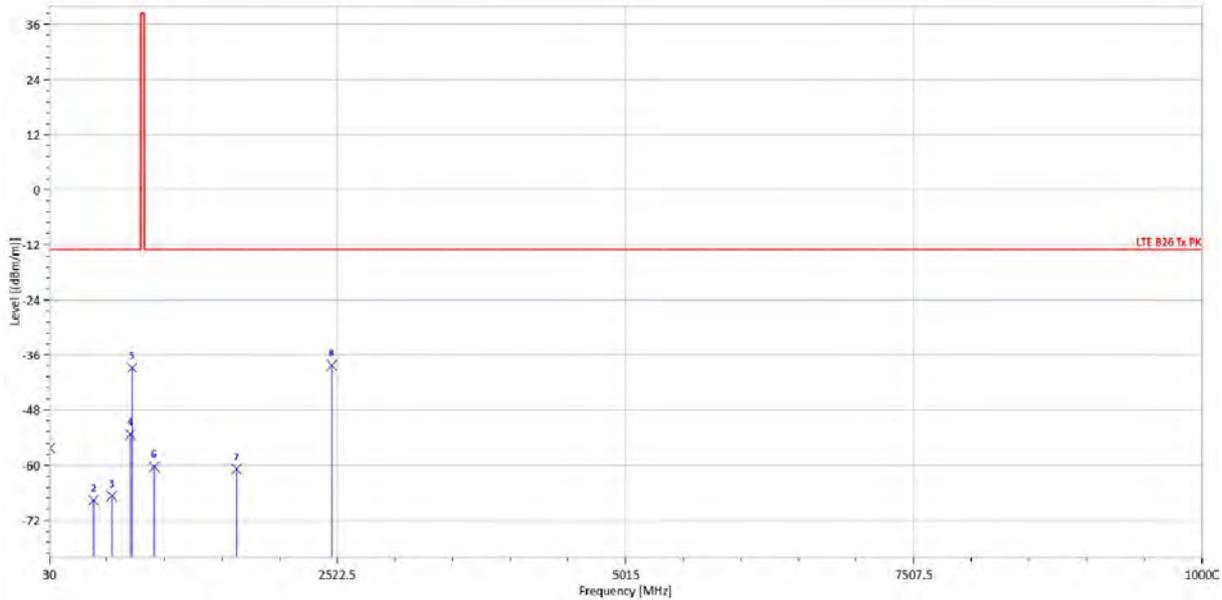
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	
31.94	S	-56.30	-34.66	-20.82	-0.83	-13	-43.30
413.15	S	-67.63	-68.01	3.31	-2.93	-13	-54.63
571.26	S	-66.68	-67.34	4.12	-3.46	-13	-53.68
730.34	S	-53.33	-54.55	5.12	-3.90	-13	-40.33
746.83	S	-38.81	-40.03	5.15	-3.93	-13	-25.81
938.89	S	-60.36	-61.24	5.37	-4.50	-13	-47.36
1649.40	H	-60.81	-60.94	6.58	-6.45	-13	-47.81
2474.10	H	-38.23	-38.96	8.52	-7.80	-13	-25.23

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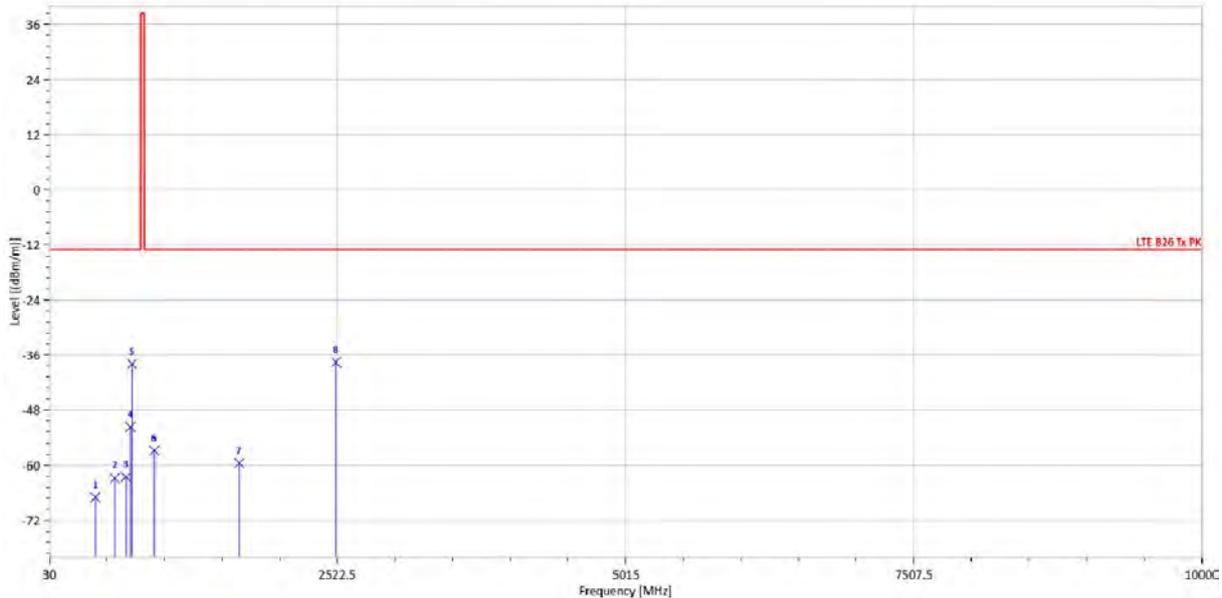
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
427.70	S	-66.95	-67.41	3.43	-2.97	-13	-53.95
596.48	S	-62.82	-63.56	4.30	-3.56	-13	-49.82
693.48	S	-62.55	-63.75	5.00	-3.81	-13	-49.55
730.34	S	-51.65	-52.87	5.12	-3.90	-13	-38.65
745.86	S	-37.96	-39.18	5.15	-3.93	-13	-24.96
938.89	S	-56.83	-57.71	5.37	-4.50	-13	-43.83
1673.00	H	-59.56	-59.74	6.68	-6.50	-13	-46.56
2509.50	H	-37.59	-38.32	8.56	-7.84	-13	-24.59

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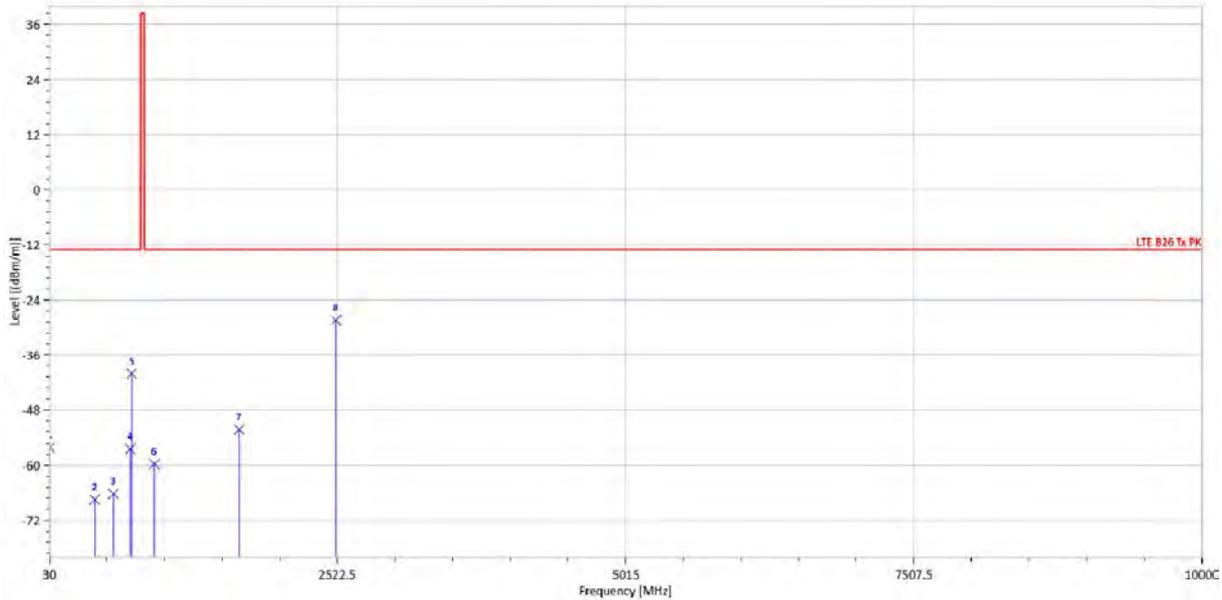
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
31.94	S	-56.17	-34.53	-20.82	-0.83	-13	-43.17
421.88	S	-67.47	-67.90	3.38	-2.96	-13	-54.47
583.87	S	-66.28	-66.98	4.21	-3.51	-13	-53.28
729.37	S	-56.50	-57.72	5.12	-3.90	-13	-43.50
742.95	S	-40.05	-41.27	5.15	-3.92	-13	-27.05
938.89	S	-59.77	-60.65	5.37	-4.50	-13	-46.77
1673.00	H	-52.23	-52.40	6.68	-6.50	-13	-39.23
2509.50	H	-28.37	-29.09	8.56	-7.84	-13	-15.37

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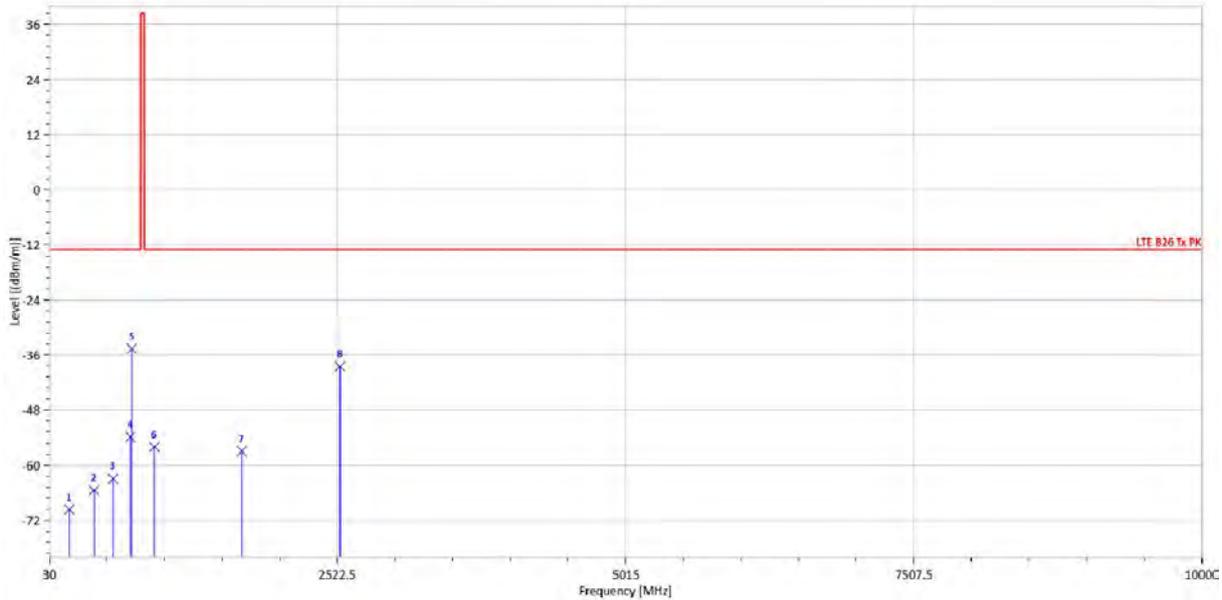
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
202.66	S	-69.63	-71.46	3.84	-2.00	-13	-56.63
417.03	S	-65.44	-65.84	3.34	-2.94	-13	-52.44
580.96	S	-62.98	-63.67	4.19	-3.49	-13	-49.98
730.34	S	-53.83	-55.05	5.12	-3.90	-13	-40.83
742.95	S	-34.62	-35.85	5.15	-3.92	-13	-21.62
938.89	S	-56.05	-56.92	5.37	-4.50	-13	-43.05
1696.60	H	-56.94	-57.17	6.78	-6.55	-13	-43.94
2544.90	H	-38.49	-39.21	8.60	-7.88	-13	-25.49

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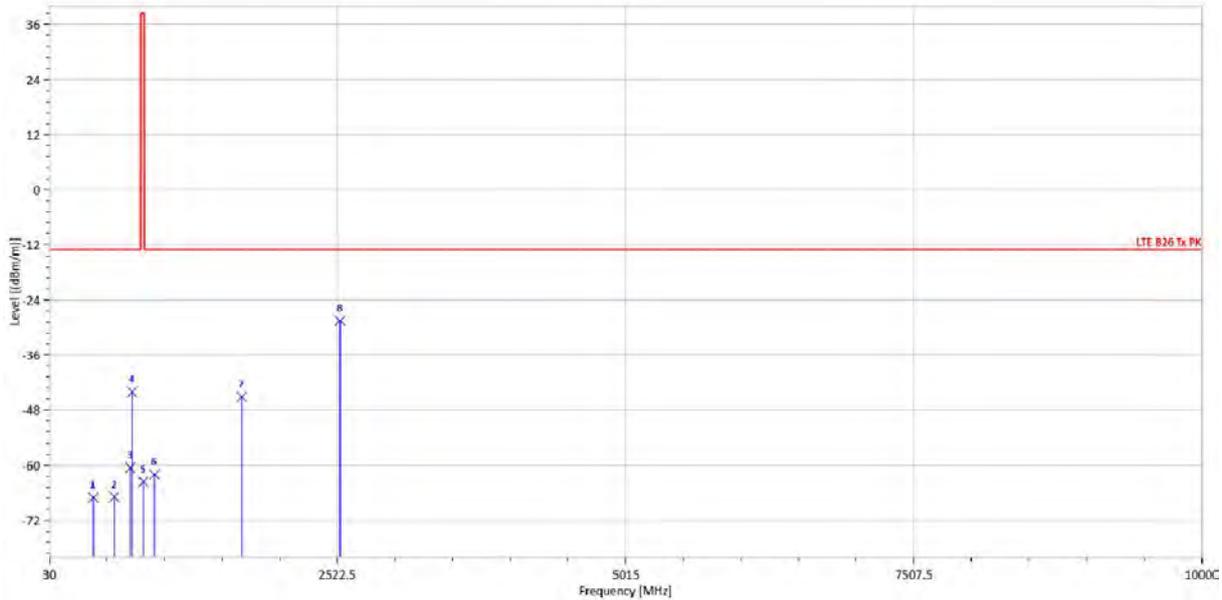
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
411.21	S	-67.02	-67.39	3.29	-2.92	-13	-54.02
591.63	S	-66.88	-67.60	4.26	-3.54	-13	-53.88
729.37	S	-60.57	-61.79	5.12	-3.90	-13	-47.57
746.83	S	-44.05	-45.28	5.15	-3.93	-13	-31.05
842.86	S	-63.59	-64.42	5.07	-4.25	-13	-50.60
939.86	S	-62.02	-62.90	5.38	-4.50	-13	-49.02
1696.60	H	-45.13	-45.35	6.78	-6.55	-13	-32.13
2544.90	H	-28.49	-29.21	8.60	-7.88	-13	-15.49

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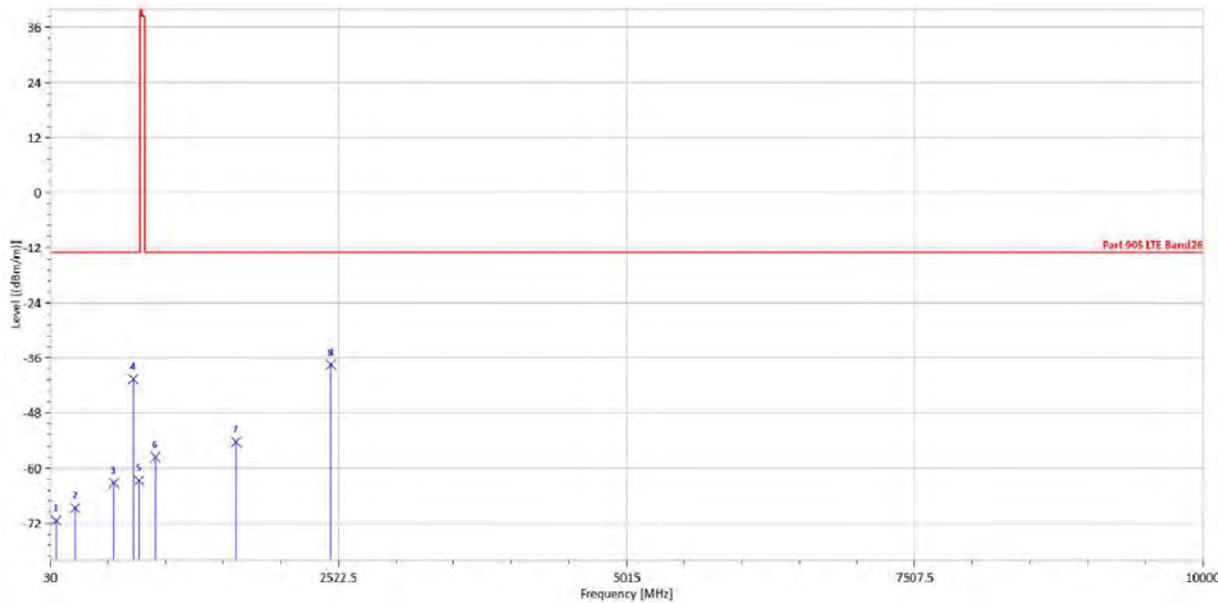
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode :	LTEB26Part90 10M QPSK 1.0	Test Date :	2017/9/8
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
79.47	S	-71.42	-68.51	-1.69	-1.22	-13	-58.42
243.40	S	-68.66	-69.50	3.04	-2.21	-13	-55.66
579.99	S	-63.24	-63.93	4.18	-3.49	-13	-50.24
746.83	S	-40.63	-41.86	5.15	-3.93	-13	-27.63
797.27	S	-62.72	-63.84	5.22	-4.10	-13	-49.72
939.86	S	-57.63	-58.51	5.38	-4.50	-13	-44.63
1638.00	H	-54.32	-54.42	6.53	-6.43	-13	-41.32
2457.00	H	-37.47	-38.20	8.51	-7.78	-13	-24.47

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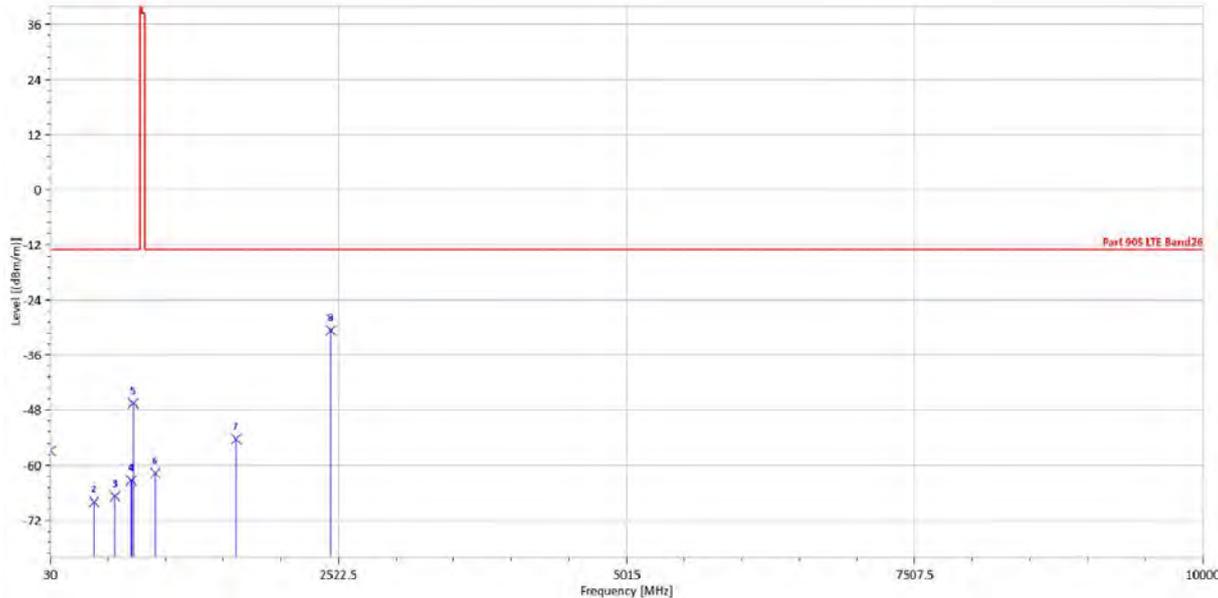
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Operation Mode :	LTEB26Part90 10M QPSK 1.0	Test Date :	2017/9/8
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
31.94	S	-56.89	-35.25	-20.82	-0.83	-13	-43.89
409.27	S	-67.96	-68.32	3.28	-2.92	-13	-54.96
588.72	S	-66.74	-67.46	4.24	-3.52	-13	-53.74
730.34	S	-63.29	-64.51	5.12	-3.90	-13	-50.29
746.83	S	-46.51	-47.73	5.15	-3.93	-13	-33.51
938.89	S	-61.72	-62.59	5.37	-4.50	-13	-48.72
1638.00	H	-54.32	-54.42	6.53	-6.43	-13	-41.32
2457.00	H	-30.63	-31.36	8.51	-7.78	-13	-17.63

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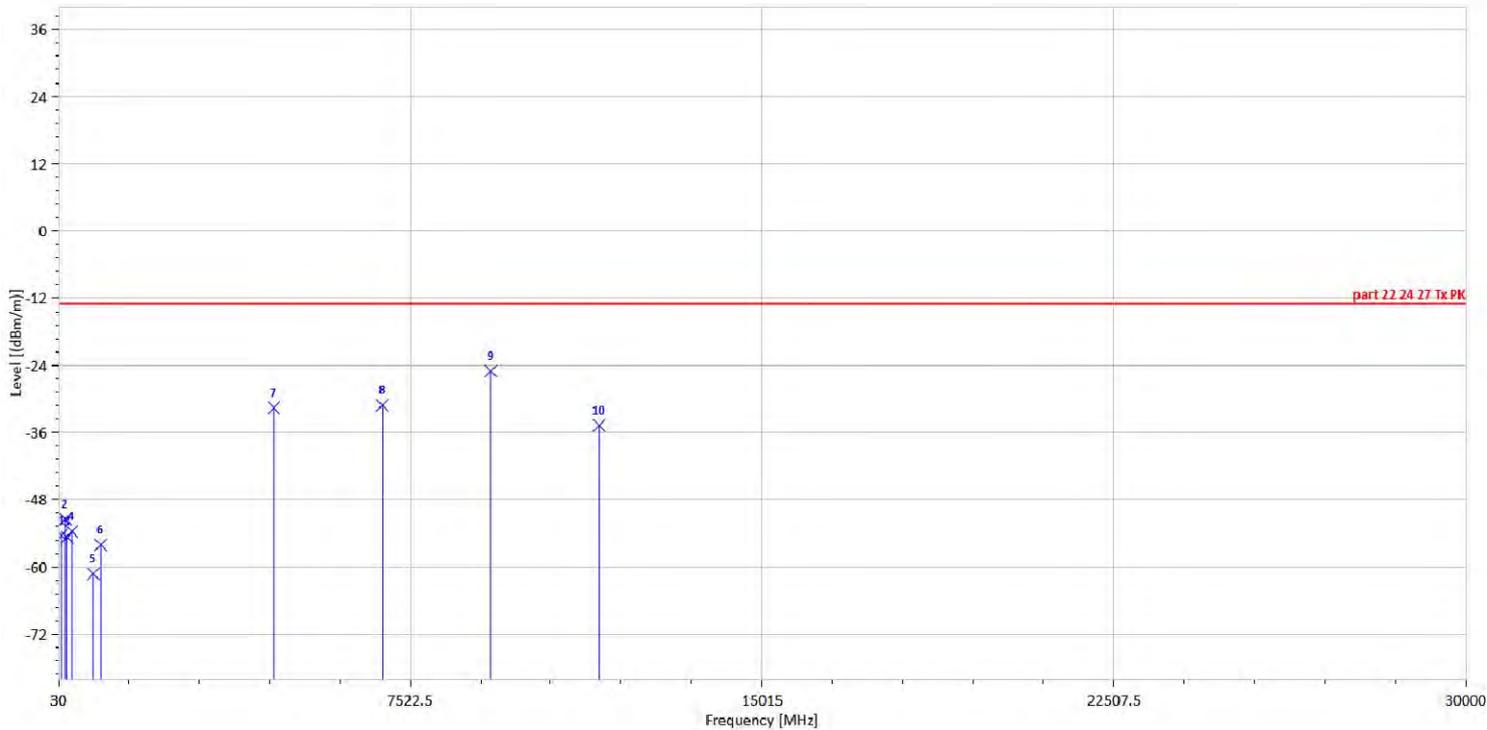
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Operation Mode :	LTEB30 10M QPSK 1.0	Test Date :	2017/11/18
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
96.93	S	-54.39	-52.11	-0.93	-1.36	-13.01	-41.38
181.32	S	-51.47	-55.06	5.48	-1.89	-13.01	-38.46
216.24	S	-54.73	-58.90	6.24	-2.07	-13.01	-41.72
316.15	S	-53.66	-57.01	5.90	-2.54	-13.01	-40.65
774.96	S	-61.24	-64.95	7.74	-4.03	-13.01	-48.23
935.01	S	-56.05	-59.51	7.94	-4.49	-13.01	-43.04
4620.00	H	-31.58	-34.54	12.58	-9.61	-13.01	-18.57
6930.00	H	-31.15	-31.97	12.04	-11.22	-13.01	-18.14
9240.00	H	-25.03	-24.26	11.56	-12.33	-13.01	-12.02
11550.00	H	-34.74	-32.63	11.53	-13.64	-13.01	-21.73

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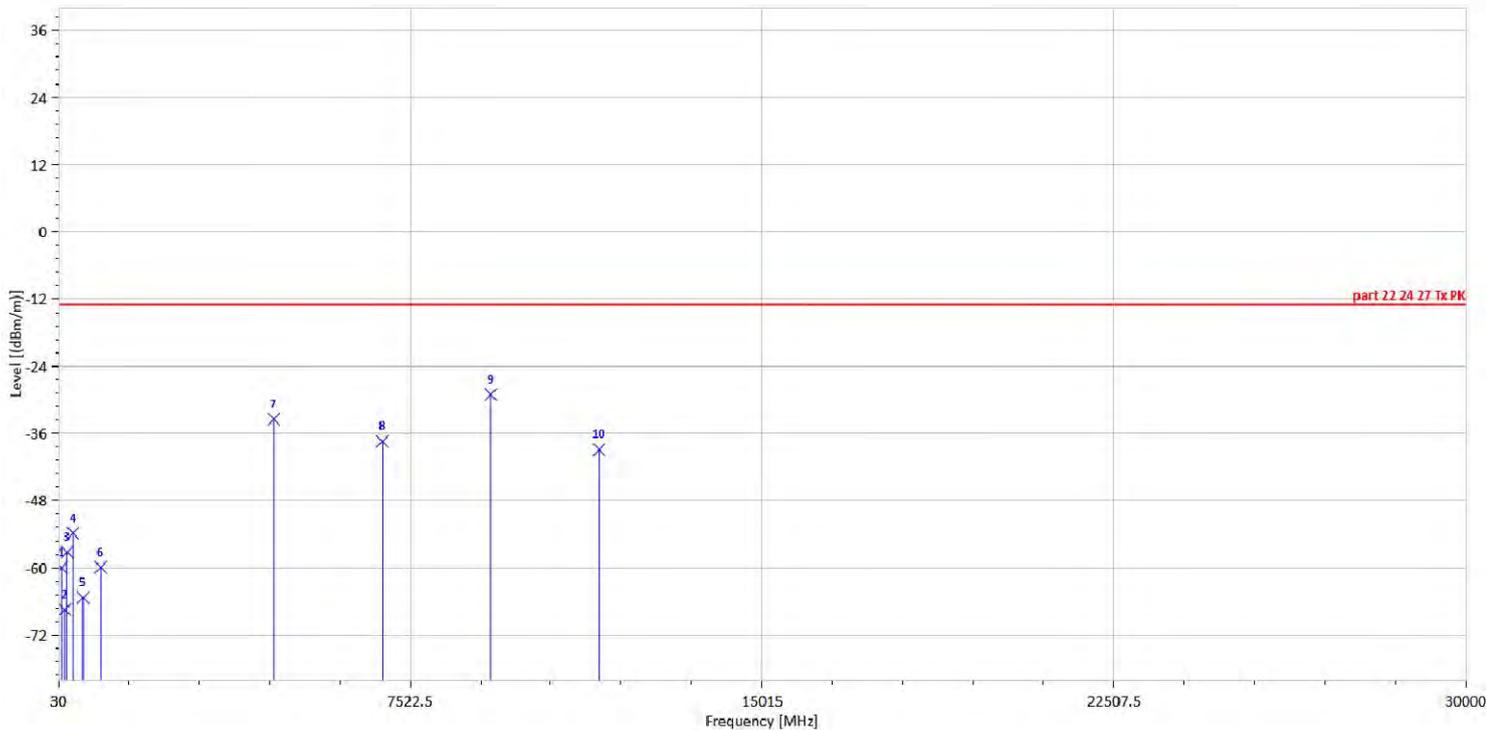
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Operation Mode :	LTEB30 10M QPSK 1.0	Test Date :	2017/11/18
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
100.81	S	-59.98	-57.27	-1.32	-1.39	-13.01	-46.97
167.74	S	-67.48	-69.73	4.06	-1.82	-13.01	-54.47
217.21	S	-57.19	-61.39	6.27	-2.08	-13.01	-44.18
341.37	S	-53.82	-57.14	5.97	-2.65	-13.01	-40.81
557.68	S	-65.35	-68.51	6.59	-3.43	-13.01	-52.34
935.01	S	-59.90	-63.36	7.94	-4.49	-13.01	-46.89
4620.00	H	-33.45	-36.41	12.58	-9.61	-13.01	-20.44
6930.00	H	-37.43	-38.26	12.04	-11.22	-13.01	-24.42
9240.00	H	-29.06	-28.29	11.56	-12.33	-13.01	-16.05
11550.00	H	-38.90	-36.79	11.53	-13.64	-13.01	-25.89

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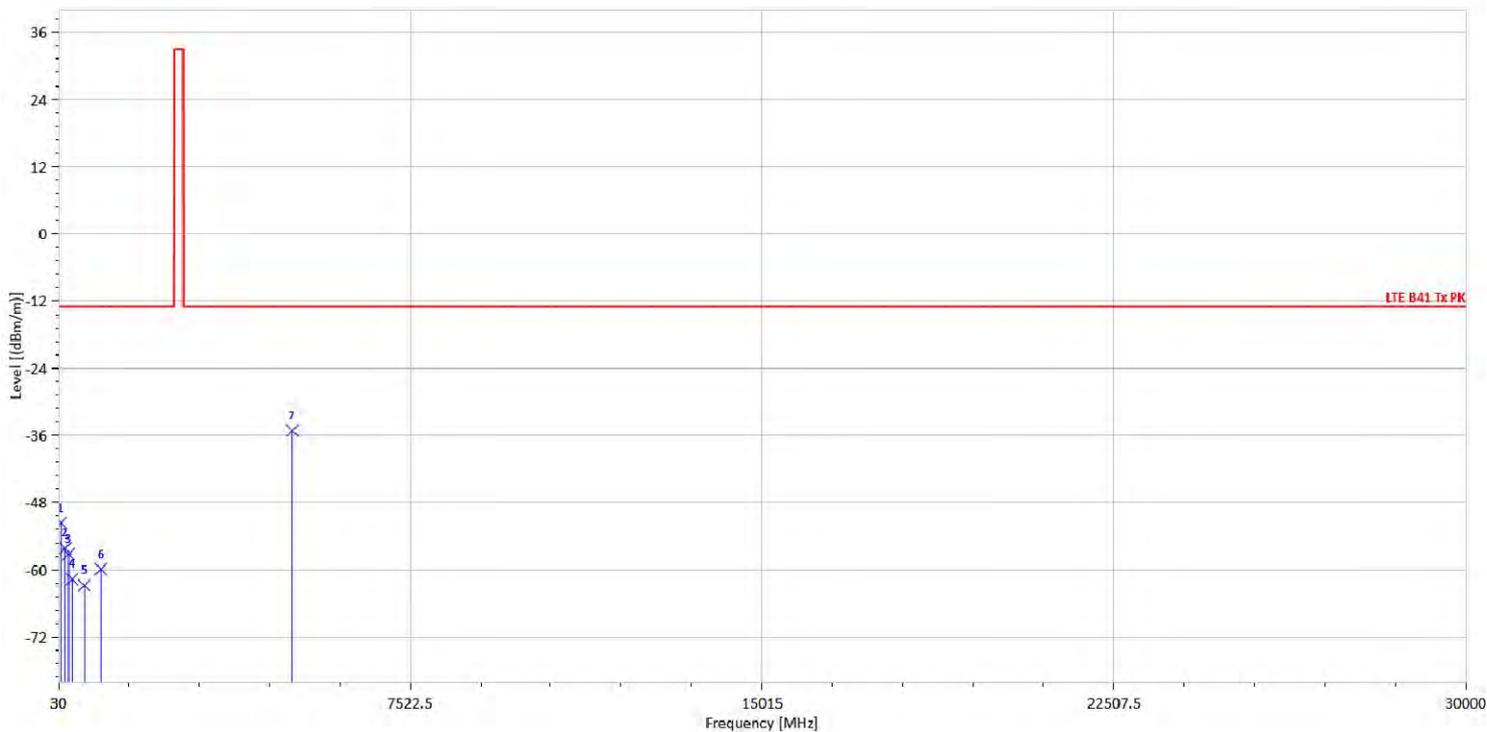
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
91.11	S	-51.64	-50.09	-0.24	-1.31	-13	-38.64
176.47	S	-56.17	-59.34	5.03	-1.86	-13	-43.17
249.22	S	-57.21	-60.17	5.20	-2.25	-13	-44.21
325.85	S	-61.69	-65.03	5.92	-2.58	-13	-48.69
582.90	S	-62.80	-66.12	6.82	-3.50	-13	-49.80
936.95	S	-59.89	-63.34	7.95	-4.49	-13	-46.89
5012.00	H	-35.15	-37.73	12.51	-9.93	-13	-22.15

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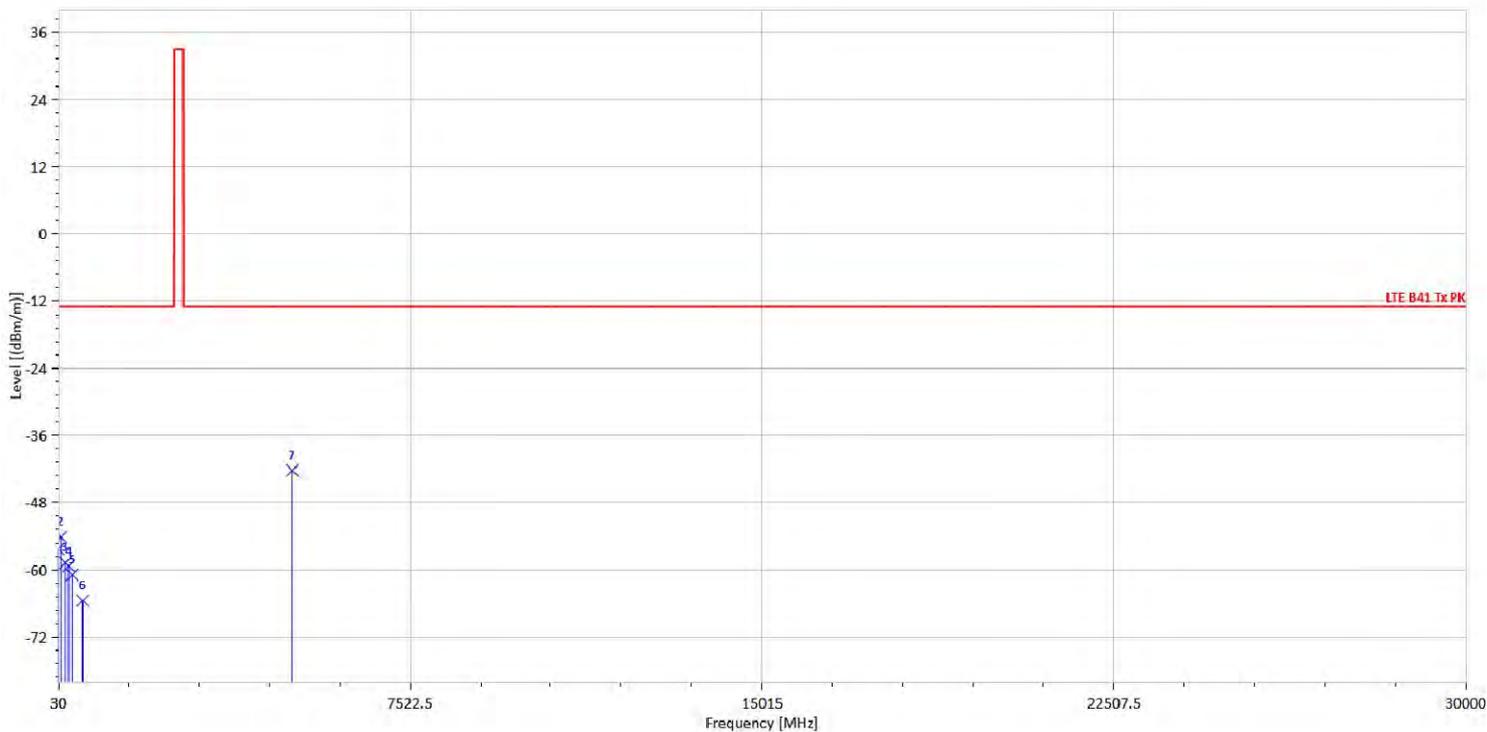
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-56.28	-35.89	-19.56	-0.82	-13	-43.28
91.11	S	-54.17	-52.63	-0.24	-1.31	-13	-41.17
180.35	S	-58.75	-62.30	5.43	-1.88	-13	-45.75
251.16	S	-59.33	-62.16	5.09	-2.26	-13	-46.33
325.85	S	-60.90	-64.24	5.92	-2.58	-13	-47.90
547.98	S	-65.49	-68.60	6.52	-3.40	-13	-52.49
5012.00	H	-42.26	-44.84	12.51	-9.93	-13	-29.26

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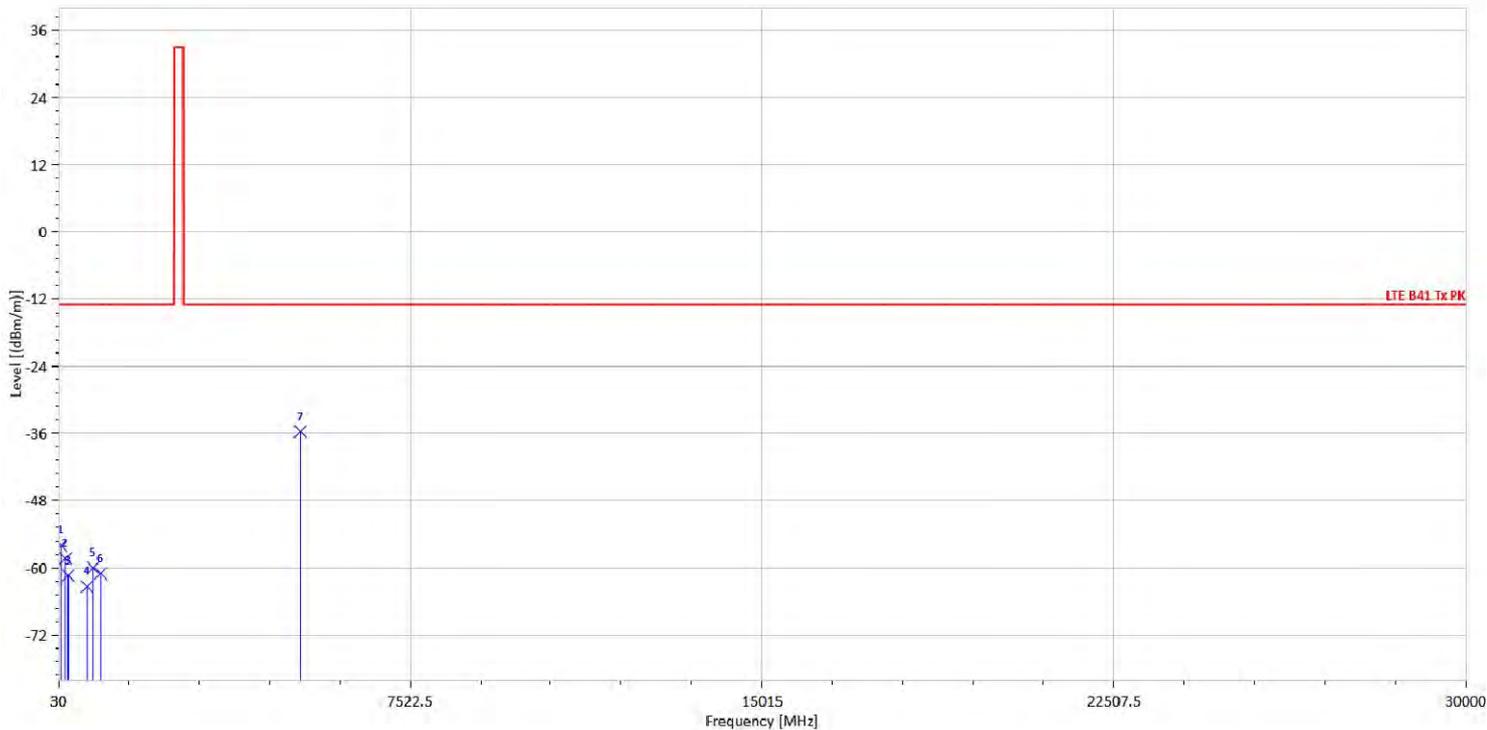
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
91.11	S	-56.02	-54.47	-0.24	-1.31	-13	-43.02
181.32	S	-58.32	-61.91	5.48	-1.89	-13	-45.32
238.55	S	-61.36	-64.86	5.68	-2.18	-13	-48.36
641.10	S	-63.36	-66.82	7.13	-3.67	-13	-50.36
772.05	S	-60.01	-63.73	7.74	-4.02	-13	-47.01
932.10	S	-61.02	-64.48	7.94	-4.48	-13	-48.02
5186.00	H	-35.66	-38.29	12.69	-10.06	-13	-22.66

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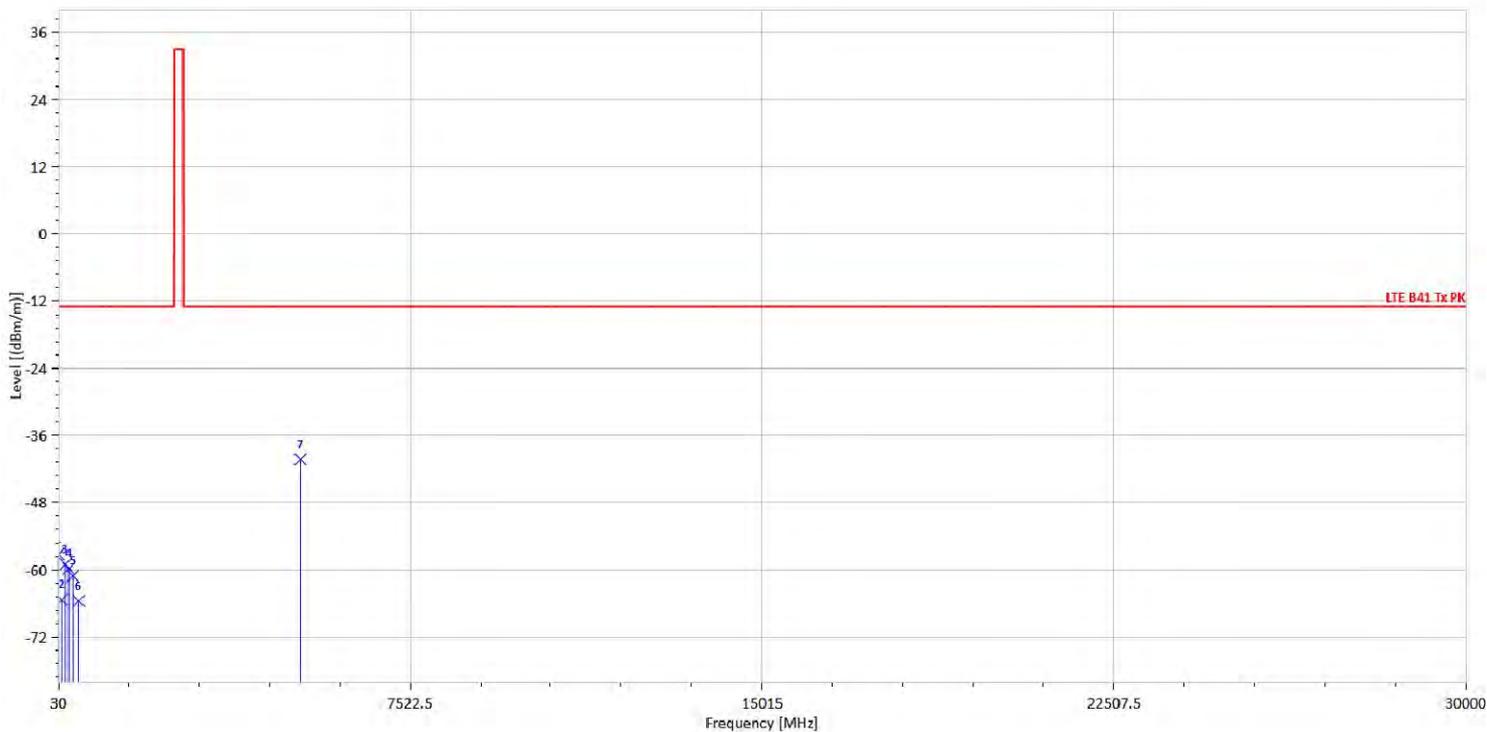
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.88	S	-57.25	-39.20	-17.21	-0.84	-13	-44.25
102.75	S	-65.37	-62.58	-1.39	-1.40	-13	-52.37
181.32	S	-59.01	-62.60	5.48	-1.89	-13	-46.01
253.10	S	-59.81	-62.51	4.96	-2.27	-13	-46.81
340.40	S	-61.11	-64.43	5.96	-2.64	-13	-48.11
463.59	S	-65.58	-68.82	6.33	-3.09	-13	-52.58
5186.00	H	-40.28	-42.91	12.69	-10.06	-13	-27.28

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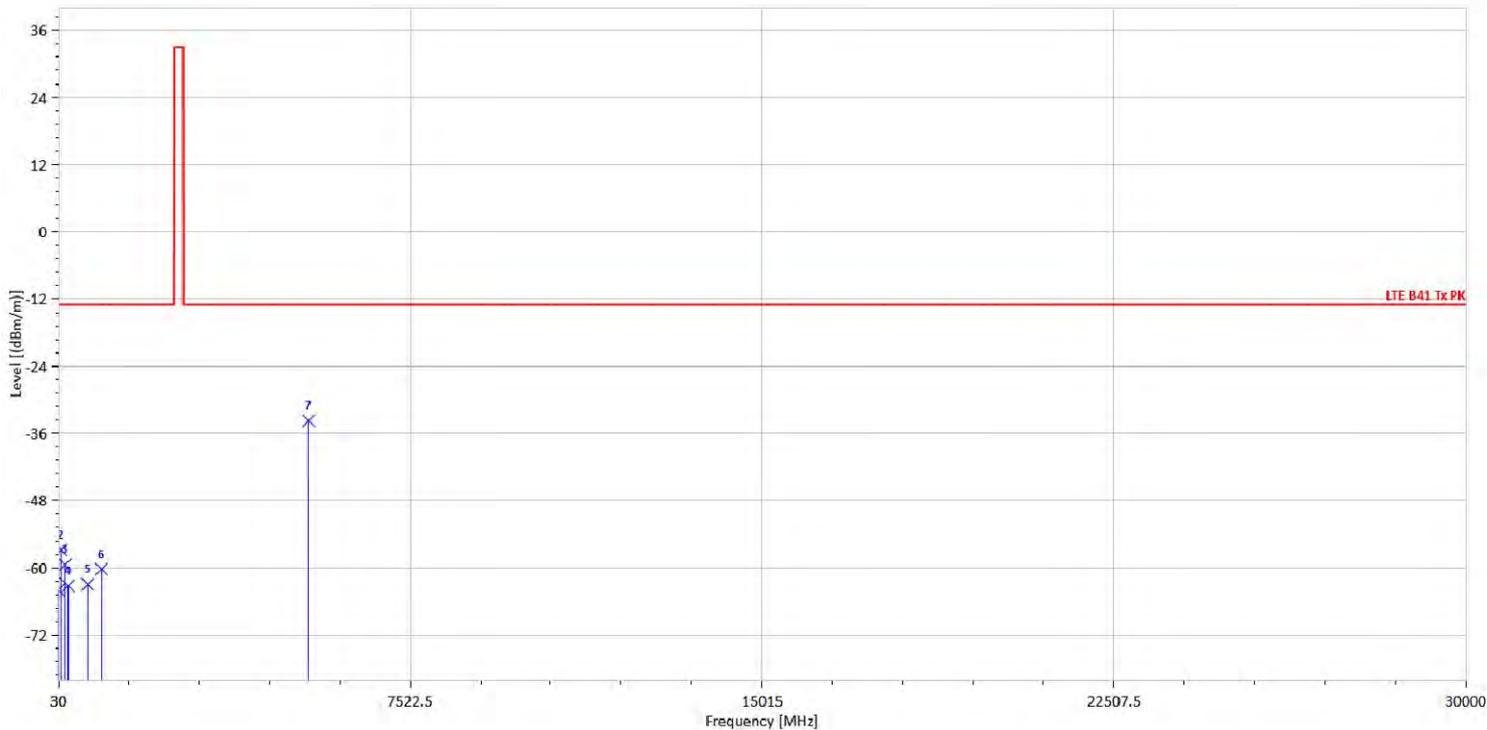
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-63.95	-44.34	-18.78	-0.83	-13	-50.95
91.11	S	-56.80	-55.25	-0.24	-1.31	-13	-43.80
176.47	S	-59.47	-62.64	5.03	-1.86	-13	-46.47
240.49	S	-63.22	-66.62	5.59	-2.19	-13	-50.22
657.59	S	-62.97	-66.50	7.25	-3.72	-13	-49.97
951.50	S	-60.25	-63.69	7.97	-4.52	-13	-47.25
5360.00	H	-33.75	-36.43	12.86	-10.18	-13	-20.75

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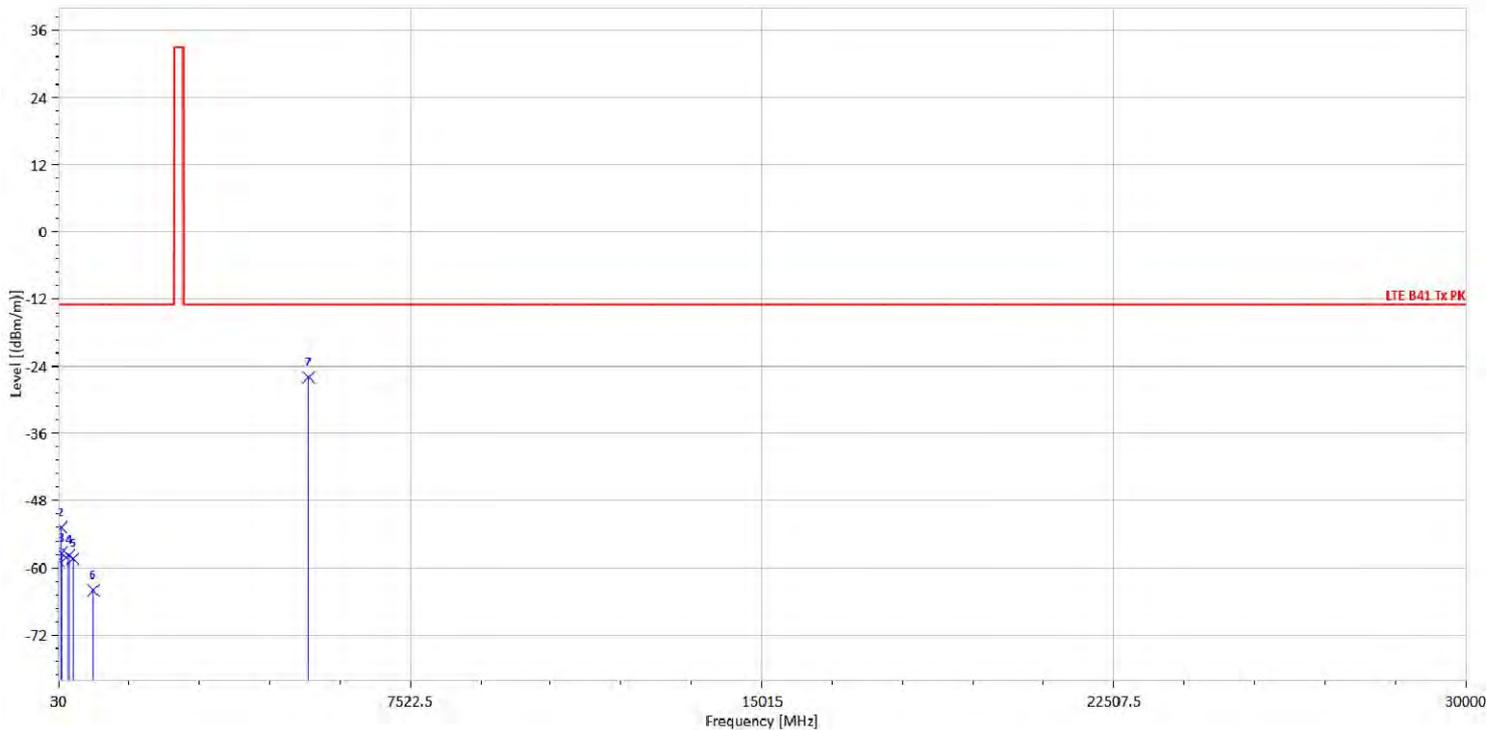
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Operation Mode :	LTEB41 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.88	S	-58.72	-40.67	-17.21	-0.84	-13	-45.72
91.11	S	-52.79	-51.24	-0.24	-1.31	-13	-39.79
100.81	S	-57.37	-54.66	-1.32	-1.39	-13	-44.37
251.16	S	-57.77	-60.61	5.09	-2.26	-13	-44.77
343.31	S	-58.39	-61.71	5.97	-2.65	-13	-45.39
775.93	S	-64.03	-67.74	7.74	-4.03	-13	-51.03
5360.00	H	-25.99	-28.66	12.86	-10.18	-13	-12.99

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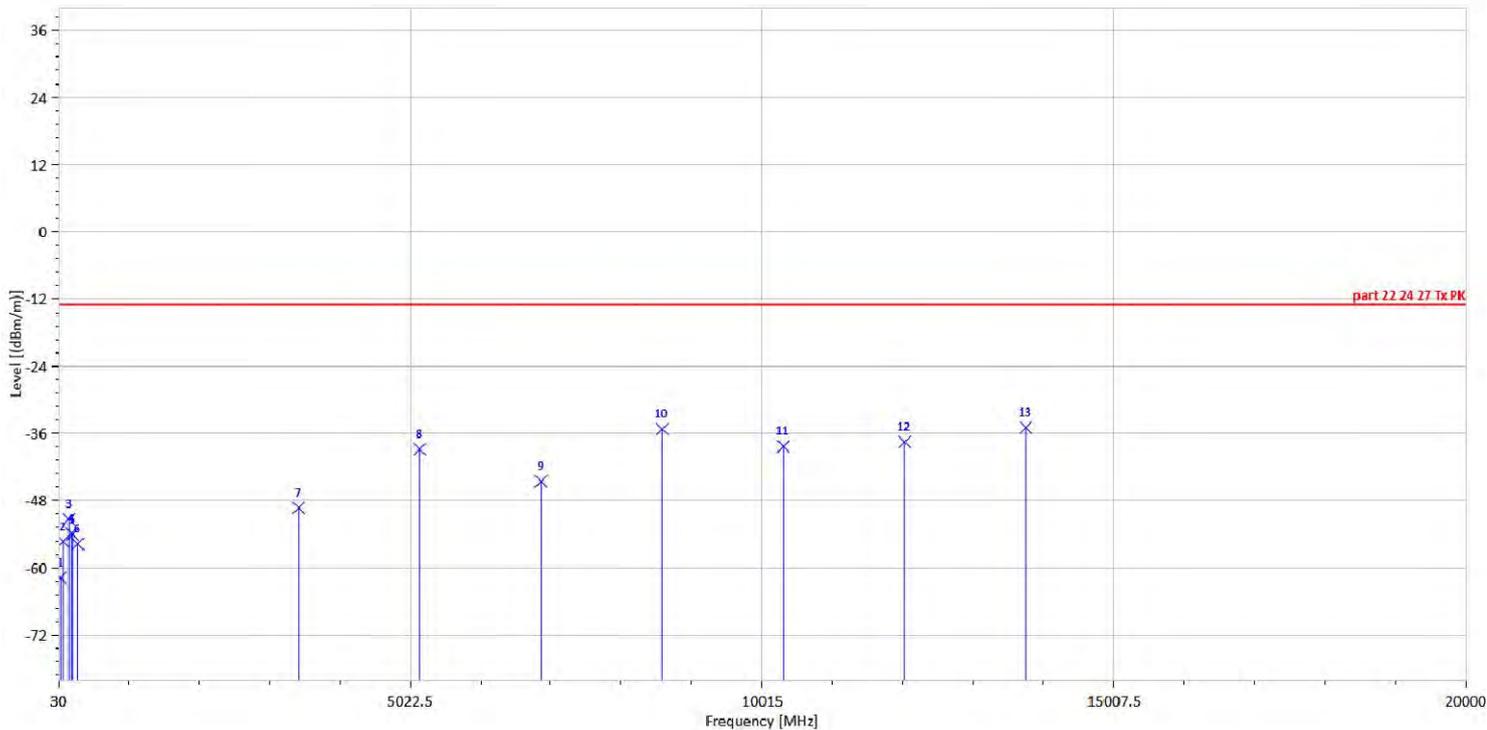
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
64.92	S	-61.76	-60.09	-0.57	-1.09	-13.01	-48.75
100.81	S	-55.29	-52.59	-1.32	-1.39	-13.01	-42.28
180.35	S	-51.31	-54.86	5.43	-1.88	-13.01	-38.30
217.21	S	-53.83	-58.03	6.27	-2.08	-13.01	-40.82
232.73	S	-54.03	-57.81	5.93	-2.15	-13.01	-41.02
304.51	S	-55.74	-59.12	5.86	-2.48	-13.01	-42.73
3440.00	H	-49.31	-52.80	12.21	-8.73	-13.01	-36.30
5160.00	H	-38.82	-41.45	12.69	-10.06	-13.01	-25.81
6880.00	H	-44.58	-45.41	12.05	-11.21	-13.01	-31.57
8600.00	H	-35.24	-35.20	12.02	-12.05	-13.01	-22.23
10320.00	H	-38.33	-36.65	11.18	-12.86	-13.01	-25.32
12040.00	H	-37.54	-36.50	12.90	-13.94	-13.01	-24.53
13760.00	H	-34.97	-32.48	12.40	-14.90	-13.01	-21.96

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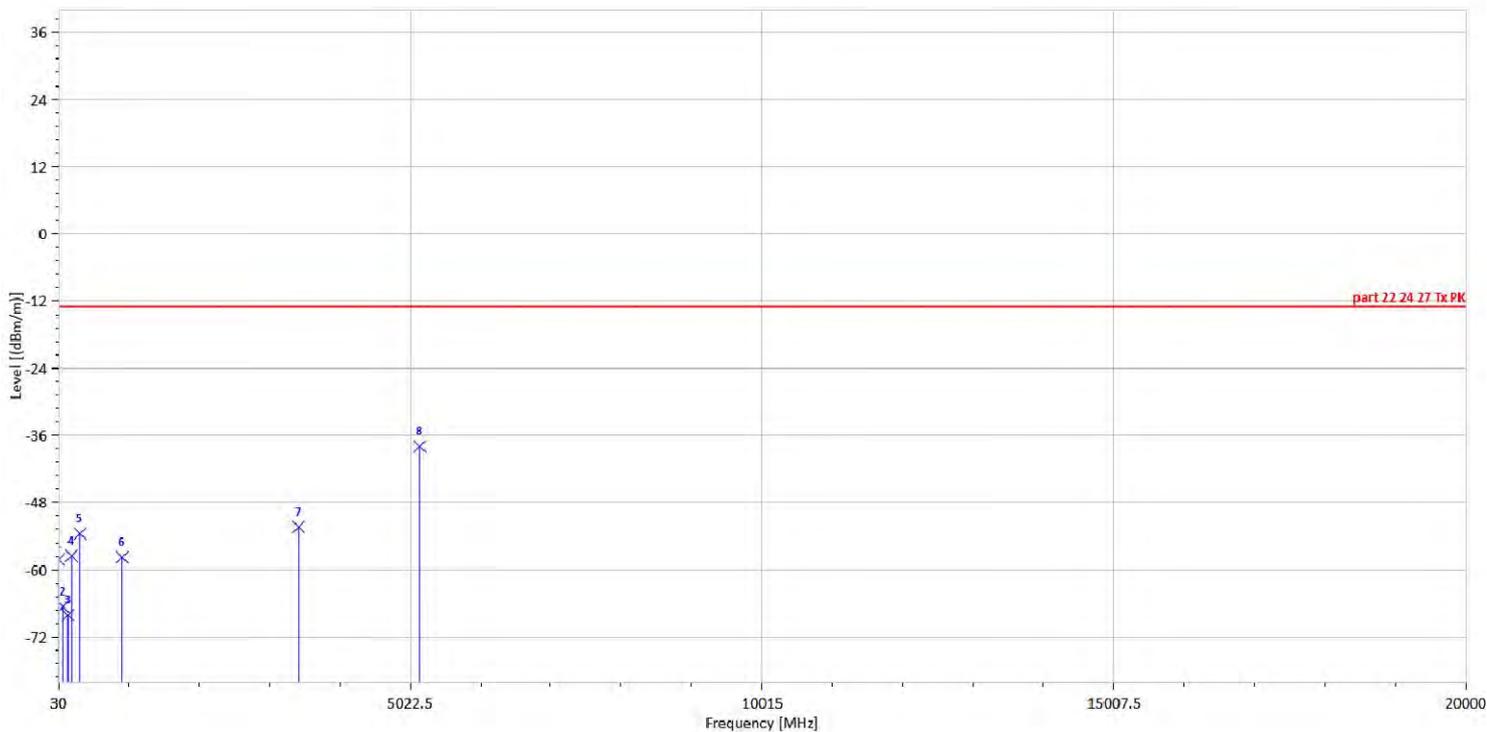
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
33.88	S	-58.18	-40.13	-17.21	-0.84	-13.01	-45.17
97.90	S	-66.59	-64.18	-1.04	-1.36	-13.01	-53.58
165.80	S	-68.11	-70.15	3.85	-1.80	-13.01	-55.10
217.21	S	-57.51	-61.71	6.27	-2.08	-13.01	-44.50
337.49	S	-53.57	-56.90	5.96	-2.63	-13.01	-40.56
935.98	S	-57.76	-61.22	7.94	-4.49	-13.01	-44.75
3440.00	H	-52.36	-55.85	12.21	-8.73	-13.01	-39.35
5160.00	H	-37.98	-40.60	12.69	-10.06	-13.01	-24.97

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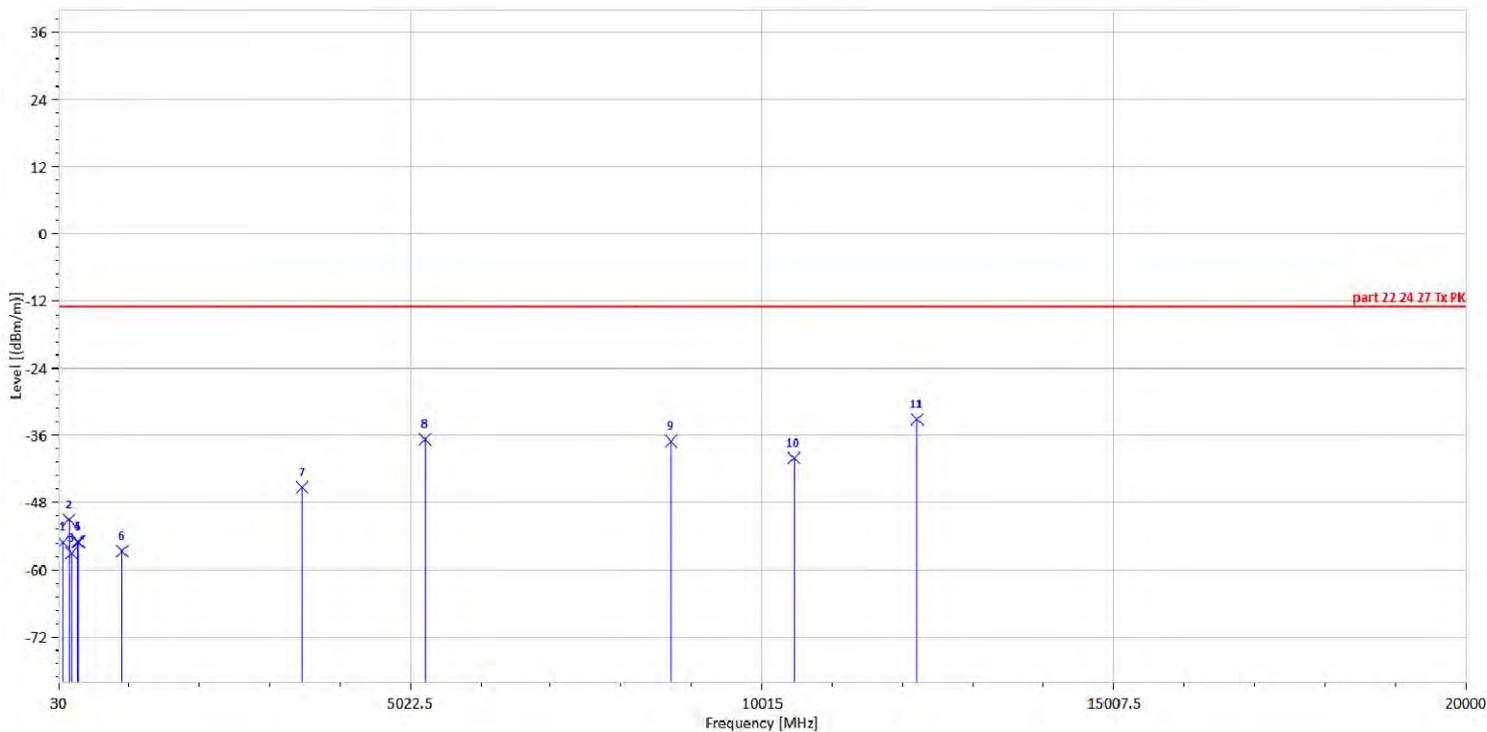
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
97.90	S	-55.07	-52.66	-1.04	-1.36	-13.01	-42.06
181.32	S	-51.07	-54.66	5.48	-1.89	-13.01	-38.06
217.21	S	-57.02	-61.22	6.27	-2.08	-13.01	-44.01
303.54	S	-54.97	-58.35	5.86	-2.48	-13.01	-41.96
320.03	S	-55.05	-58.40	5.91	-2.56	-13.01	-42.04
935.01	S	-56.67	-60.13	7.94	-4.49	-13.01	-43.66
3490.00	H	-45.28	-48.82	12.30	-8.76	-13.01	-32.27
5235.00	H	-36.71	-39.36	12.76	-10.11	-13.01	-23.70
8725.00	H	-37.06	-36.94	11.94	-12.06	-13.01	-24.05
10470.00	H	-40.04	-38.14	11.09	-12.99	-13.01	-27.03
12215.00	H	-33.12	-32.32	13.26	-14.06	-13.01	-20.11

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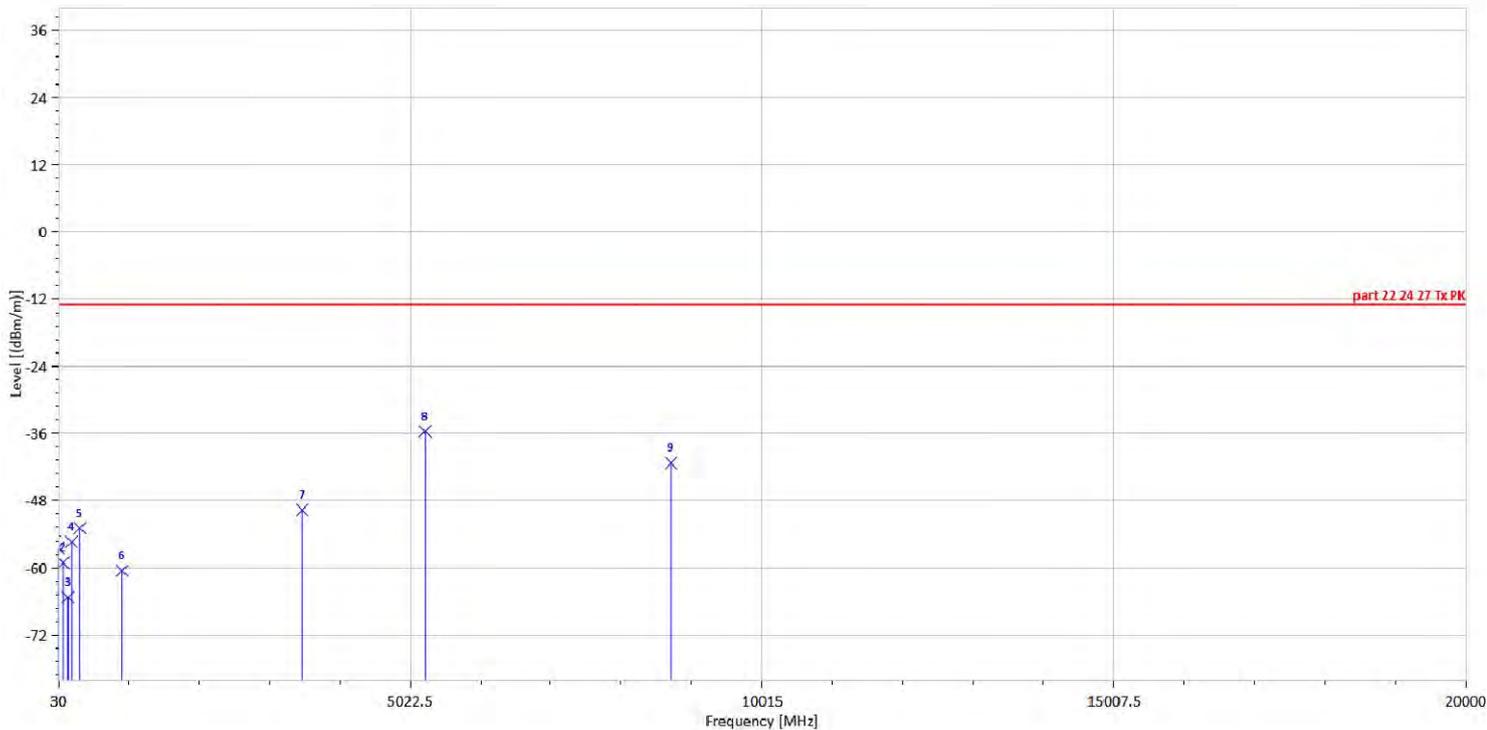
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
30.97	S	-56.45	-36.07	-19.56	-0.82	-13.01	-43.44
100.81	S	-59.11	-56.41	-1.32	-1.39	-13.01	-46.10
166.77	S	-65.28	-67.43	3.96	-1.81	-13.01	-52.27
218.18	S	-55.41	-59.63	6.30	-2.08	-13.01	-42.40
335.55	S	-52.93	-56.26	5.95	-2.62	-13.01	-39.92
935.98	S	-60.53	-63.99	7.94	-4.49	-13.01	-47.52
3490.00	H	-49.68	-53.22	12.30	-8.76	-13.01	-36.67
5235.00	H	-35.62	-38.27	12.76	-10.11	-13.01	-22.61
8725.00	H	-41.28	-41.16	11.94	-12.06	-13.01	-28.27

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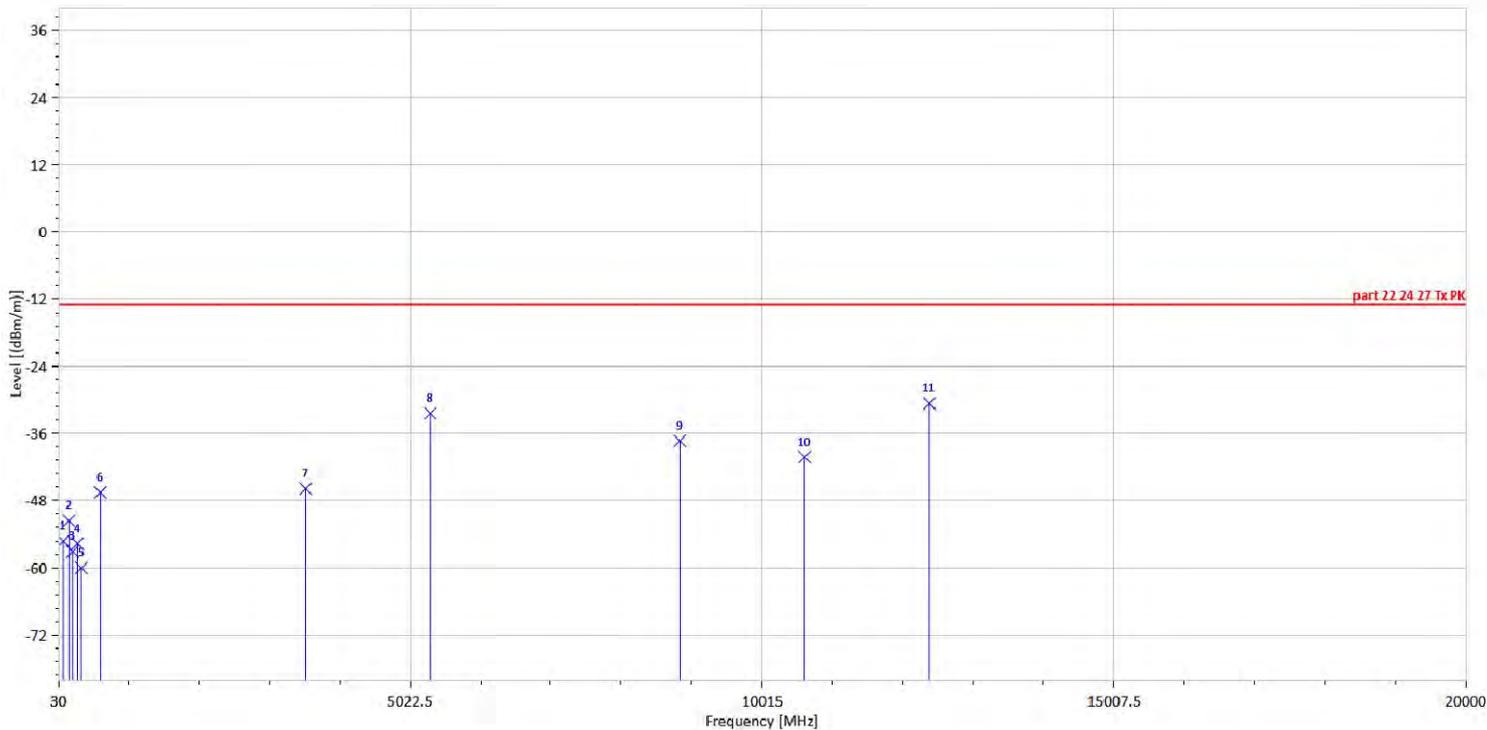
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1770 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
101.78	S	-55.23	-52.48	-1.36	-1.39	-13.01	-42.22
181.32	S	-51.60	-55.19	5.48	-1.89	-13.01	-38.59
232.73	S	-57.09	-60.86	5.93	-2.15	-13.01	-44.08
301.60	S	-55.68	-59.06	5.86	-2.47	-13.01	-42.67
355.92	S	-60.04	-63.30	5.96	-2.70	-13.01	-47.03
626.55	S	-46.54	-49.98	7.08	-3.64	-13.01	-33.53
3540.00	H	-45.87	-49.41	12.33	-8.80	-13.01	-32.86
5310.00	H	-32.42	-35.09	12.84	-10.17	-13.01	-19.41
8850.00	H	-37.34	-37.12	11.87	-12.09	-13.01	-24.33
10620.00	H	-40.22	-38.11	11.00	-13.11	-13.01	-27.21
12390.00	H	-30.65	-30.08	13.60	-14.17	-13.01	-17.64

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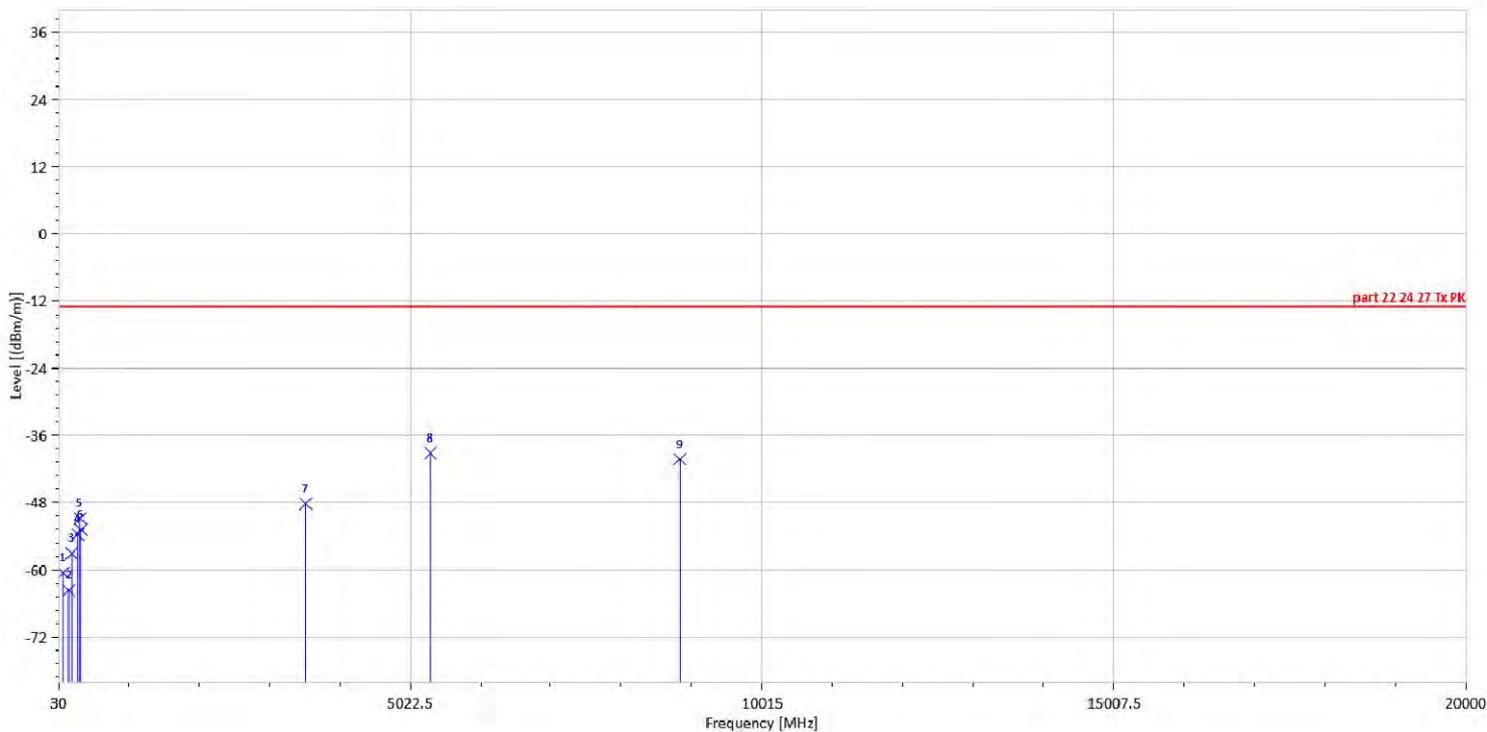
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Operation Mode :	LTEB66 20M 64QAM 1.99	Test Date :	2017/11/18
Fundamental Frequency :	1770 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
99.84	S	-60.55	-57.90	-1.27	-1.38	-13.01	-47.54
177.44	S	-63.66	-66.93	5.13	-1.87	-13.01	-50.65
220.12	S	-57.09	-61.35	6.35	-2.09	-13.01	-44.08
305.48	S	-53.69	-57.07	5.87	-2.49	-13.01	-40.68
336.52	S	-50.82	-54.15	5.95	-2.63	-13.01	-37.81
350.10	S	-52.83	-56.14	5.99	-2.68	-13.01	-39.82
3540.00	H	-48.22	-51.75	12.33	-8.80	-13.01	-35.21
5310.00	H	-39.16	-41.83	12.84	-10.17	-13.01	-26.15
8850.00	H	-40.24	-40.02	11.87	-12.09	-13.01	-27.23

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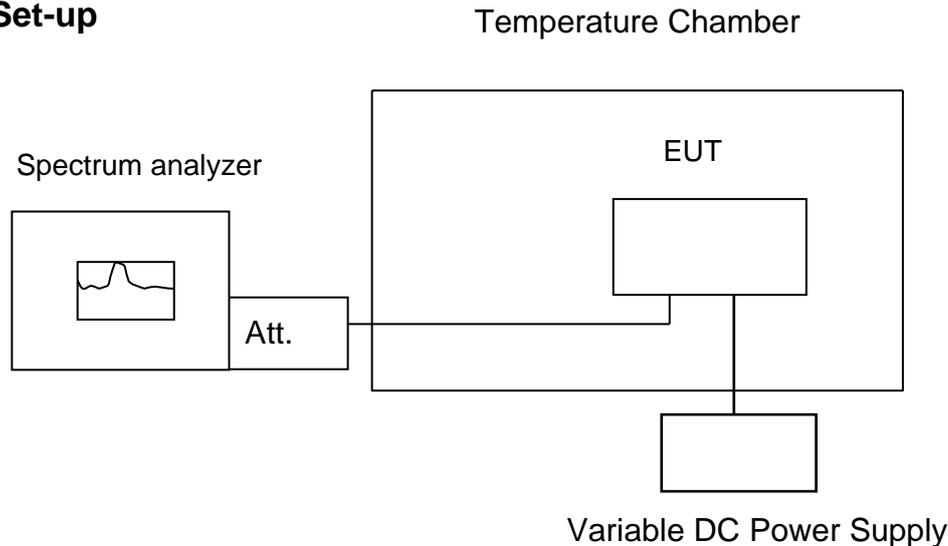
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicabl

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 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used

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

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11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
12.7	20	1879999991	-10	4700
11.55	20	1880000001	7	4700
10.4	20	1879999994	-17	4700
9.6 (End point)	20	1880000011	-5	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 ()	(MHz)		
11.55	50	1880999994	-5	4700
11.55	40	1880999999	10	4700
11.55	30	1880999989	-6	4700
11.55	20	1880999995	9	4700
11.55	10	1880999986	-3	4700
11.55	0	1880999989	-4	4700
11.55	-10	1880999993	-4	4700
11.55	-20	1880999997	8	4700
11.55	-30	1880999989	7	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
12.7	20	1732599998	-10	4331
11.55	20	1732600008	17	4331
10.4	20	1732599991	-20	4331
9.6 (End point)	20	1732600011	-4	4331

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 ()	(MHz)		
11.55	50	1732599981	-8	4331
11.55	40	1732599989	7	4331
11.55	30	1732599982	-11	4331
11.55	20	1732599993	-4	4331
11.55	10	1732599997	4	4331
11.55	0	1732599993	-1	4331
11.55	-10	1732599994	2	4331
11.55	-20	1732599992	-1	4331
11.55	-30	1732599993	6	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 ()	(MHz)		
12.7	20	836599998	-6	2091
11.55	20	836600004	3	2091
10.4	20	836600001	5	2091
9.6 (End point)	20	836599996	-2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
11.55	50	836599991	-17	2091
11.55	40	836600008	11	2091
11.55	30	836599984	-13	2091
11.55	20	836599997	-14	2091
11.55	10	836600011	16	2091
11.55	0	836599995	-6	2091
11.55	-10	836600001	-7	2091
11.55	-20	836600008	0	2091
11.55	-30	836600008	7	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
12.7	25	1880.000006	4	4700	
11.55	25	1880.000002	0	4700	
10.4	25	1879.999999	-3	4700	
9.6 (End Point)	25	1879.999995	-7	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
11.55	-30	1880.000008	13	4700	
11.55	-20	1880.000004	9	4700	
11.55	-10	1880.000005	10	4700	
11.55	0	1880.000004	9	4700	
11.55	10	1880.000002	7	4700	
11.55	20	1879.999995	0	4700	
11.55	30	1879.999996	1	4700	
11.55	40	1879.999997	2	4700	
11.55	50	1879.999996	1	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 ()	(MHz)			
12.7	25	1732.5	2	4331	
11.55	25	1732.5	0	4331	
10.4	25	1732.5	-5	4331	
9.6 (End Point)	25	1732.5	-7	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 ()	(MHz)			
11.55	-30	1732.5	11	4331	
11.55	-20	1732.5	7	4331	
11.55	-10	1732.5	8	4331	
11.55	0	1732.5	6	4331	
11.55	10	1732.5	5	4331	
11.55	20	1732.5	0	4331	
11.55	30	1732.5	1	4331	
11.55	40	1732.5	-3	4331	
11.55	50	1732.5	-3	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 ()	(MHz)			
12.7	25	836.500007	6	2091	
11.55	25	836.500001	0	2091	
10.4	25	836.499998	-3	2091	
9.6 (End Point)	25	836.499994	-7	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 ()	(MHz)			
11.55	-30	836.500004	11	2091	
11.55	-20	836.500008	15	2091	
11.55	-10	836.500007	14	2091	
11.55	0	836.500002	9	2091	
11.55	10	836.500004	11	2091	
11.55	20	836.499993	0	2091	
11.55	30	836.499999	6	2091	
11.55	40	836.499995	2	2091	
11.55	50	836.499994	1	2091	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
12.7	25	707.500009	6	1769	
11.55	25	707.500003	0	1769	
10.4	25	707.499994	-9	1769	
9.6 (End Point)	25	707.499993	-10	1769	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
11.55	-30	707.500005	14	1769	
11.55	-20	707.500004	13	1769	
11.55	-10	707.500008	17	1769	
11.55	0	707.500005	14	1769	
11.55	10	707.500006	15	1769	
11.55	20	707.499991	0	1769	
11.55	30	707.499997	6	1769	
11.55	40	707.499993	2	1769	
11.55	50	707.499992	1	1769	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
12.7	25	782.000005	-2	1955	
11.55	25	782.000007	0	1955	
10.4	25	781.999994	-13	1955	
9.6 (End Point)	25	781.999994	-13	1955	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
11.55	-30	782.000007	10	1955	
11.55	-20	782.000006	9	1955	
11.55	-10	782.000005	8	1955	
11.55	0	782.000004	7	1955	
11.55	10	782.000006	9	1955	
11.55	20	781.999997	0	1955	
11.55	30	781.999995	-2	1955	
11.55	40	781.999995	-2	1955	
11.55	50	781.999996	-1	1955	

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FREQUENCY ERROR vs. VOLTAGE

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

FREQUENCY ERROR vs. TEMPERATURE

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

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

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

FREQUENCY ERROR vs. TEMPERATURE

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

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FREQUENCY ERROR vs. VOLTAGE

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

FREQUENCY ERROR vs. TEMPERATURE

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

Note: The battery is rated 11.55V dc.

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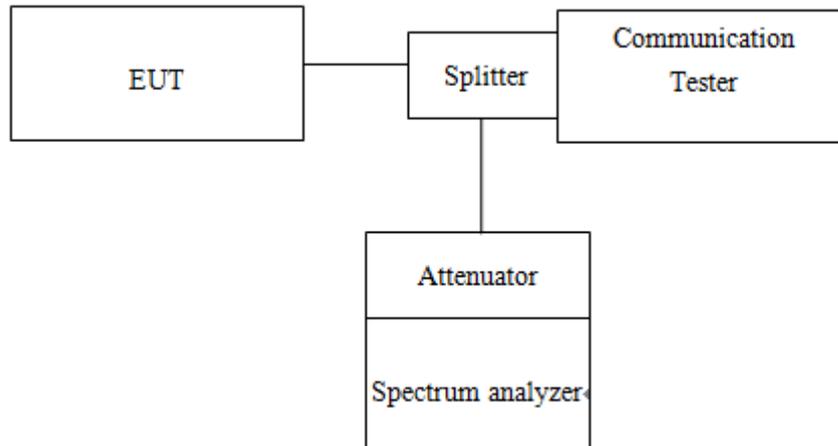
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. Measurement Procedure

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

12.4. Measurement Equipment Used

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

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	3.34	4.18	3.73
1880.0	9400	3.30	3.91	4.14
1909.8	9538	2.98	4.01	3.93

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.26	4.08	3.89
836.6	4183	2.97	3.65	3.74
846.6	4233	2.88	3.75	3.89

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.26	4.08	3.89
1732.6	1413	2.97	3.65	3.74
1752.6	1513	2.88	3.75	3.89

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.17	13	1851.5	18615	6.07	13
1880.0	18900	6.04	13	1880.0	18900	6.06	13
1909.3	19193	6.15	13	1908.5	19185	6.04	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.08	13	1855.0	18650	6.06	13
1880.0	18900	6.01	13	1880.0	18900	6.03	13
1907.5	19175	5.99	13	1905.0	19150	6.07	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.13	13	1860.0	18700	6.63	13
1880.0	18900	6.19	13	1880.0	18900	6.83	13
1902.5	19125	6.28	13	1900.0	19100	6.77	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	3.16	13	1711.5	19965	4.03	13
1732.5	20175	3.61	13	1732.5	20175	4.36	13
1754.3	20393	5.32	13	1753.5	20385	5.34	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	4.05	13	1715.0	20000	5.03	13
1732.5	20175	4.29	13	1732.5	20175	5.16	13
1752.5	20375	5.28	13	1750.0	20350	5.19	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	6.36	13	1720.0	20050	6.74	13
1732.5	20175	5.84	13	1732.5	20175	6.52	13
1747.5	20325	5.98	13	1745.0	20300	6.64	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	5.69	13	825.5	20415	6.22	13
836.5	20525	5.65	13	836.5	20525	5.87	13
848.3	20643	5.38	13	847.5	20635	5.69	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	6.10	13	829.0	20450	6.04	13
836.5	20525	5.82	13	836.5	20525	6.00	13
846.5	20625	5.76	13	844.0	20600	6.06	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.02	13	700.5	23025	6.02	13
707.5	23095	6.06	13	707.5	23095	6.02	13
715.3	23173	5.72	13	714.5	23165	5.98	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.05	13	704.0	23060	6.11	13
707.5	23095	5.96	13	707.5	23095	6.04	13
713.5	23155	5.97	13	711.0	23130	6.05	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	6.07	13	782.0	23230	5.97	13
782.0	23230	5.98	13				
784.5	23255	6.23	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	5.96	13	709	23780	6.00	13
710	23790	6.00	13	710	23790	6.07	13
713.5	23825	5.97	13	711	23780	6.01	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	6.09	13	1851.5	26055	6.01	13
1882.5	26365	6.08	13	1882.5	26365	6.11	13
1914.3	26683	5.47	13	1913.5	26675	5.66	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.01	13	1855.0	26090	6.07	13
1882.5	26365	6.21	13	1882.5	26365	6.06	13
1912.5	26665	5.73	13	1910.0	26640	5.80	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	6.13	13	1860.0	26140	6.57	13
1882.5	26365	6.19	13	1882.5	26365	6.75	13
1907.5	26615	6.09	13	1905.0	26590	6.66	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
824.7	26797	6.31	13	825.5	26805	6.04	13
836.5	26915	6.32	13	836.5	26915	6.10	13
848.3	27033	5.51	13	847.5	27025	5.71	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
826.5	26815	5.85	13	829.0	26840	5.69	13
836.5	26915	6.03	13	836.5	26915	6.01	13
846.5	27015	5.75	13	844.0	26990	5.93	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)					
		64QAM	Limit				
831.5	26865	6.09	13				
836.5	26915	6.18	13				
841.5	26965	6.15	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
2307.5	27685	5.99	13	2310.0	27710	6.05	13
2310.0	27710	6.03	13				
2312.5	27735	5.99	13				

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	6.96	13	2501.0	39700	9.21	13
2593.0	40620	9.23	13	2593.0	40620	8.49	13
2687.5	41565	9.73	13	2685.0	41540	10.07	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	10.21	13	2506.0	39750	11.41	13
2593.0	40620	9.23	13	2593.0	40620	8.44	13
2682.5	41515	8.52	13	2680.0	41490	11.91	13

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	131979	6.26	13	1711.5	131987	5.44	13
1745.0	132322	6.20	13	1745.0	132322	5.43	13
1779.3	132665	6.64	13	1778.5	132657	5.70	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	131997	5.41	13	1715.0	132022	5.75	13
1745.0	132322	5.37	13	1745.0	132322	5.58	13
1777.5	132647	6.06	13	1775.0	132622	5.96	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.34	13	1720.0	132072	6.82	13
1745.0	132322	6.17	13	1745.0	132322	6.87	13
1772.5	132597	6.39	13	1770.0	132572	6.83	13

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Measurement Results:

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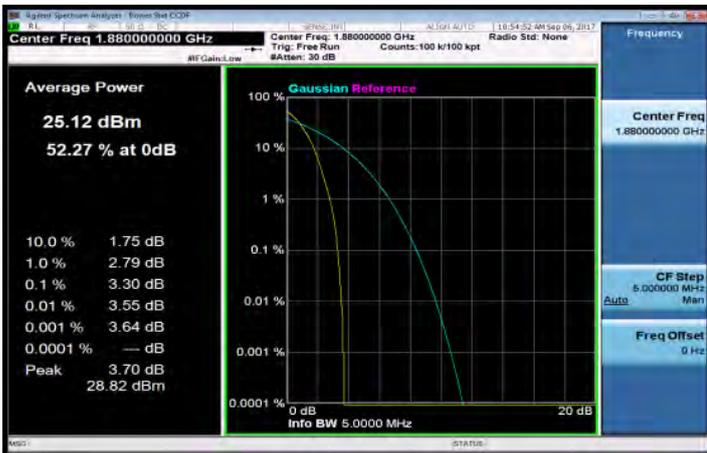
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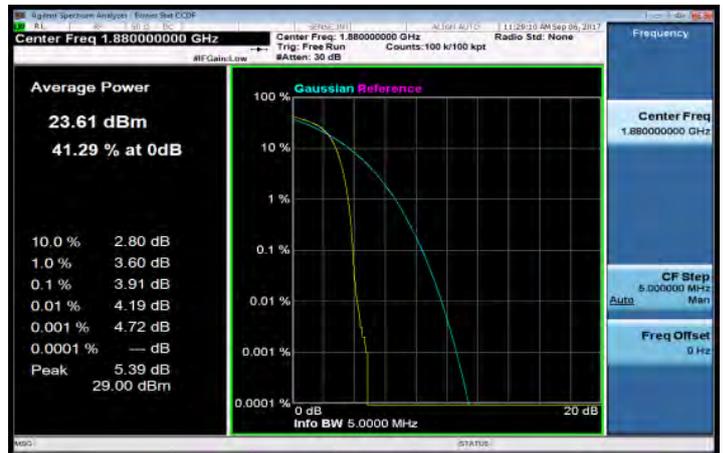
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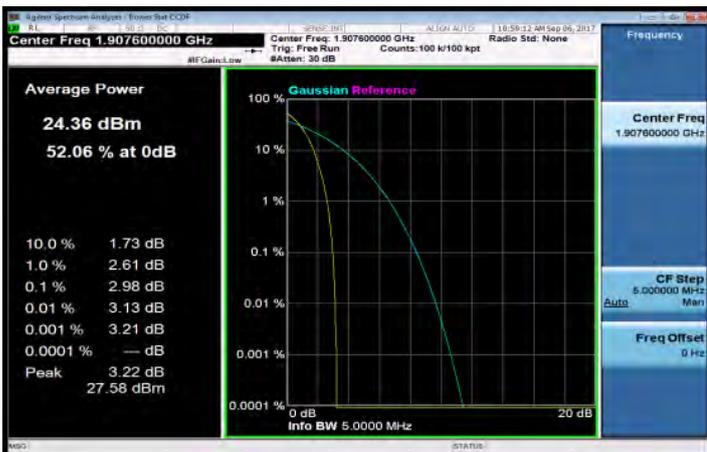
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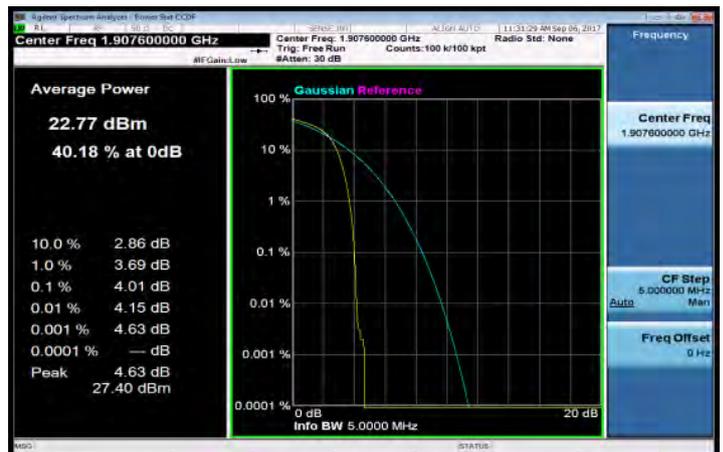
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HSDPA_B2_HighCH9538-1907.6



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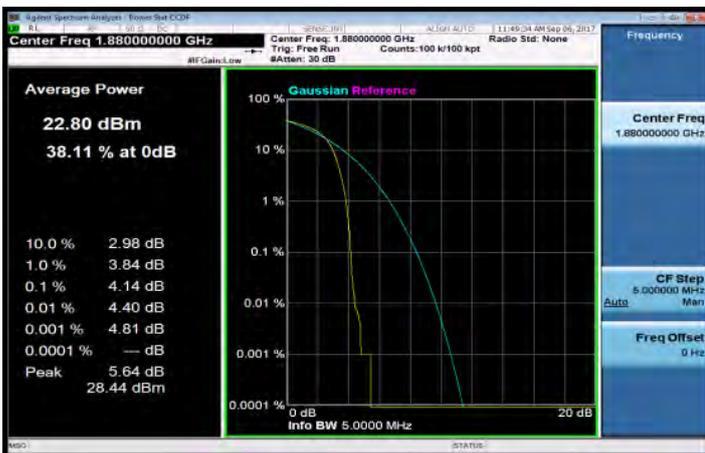
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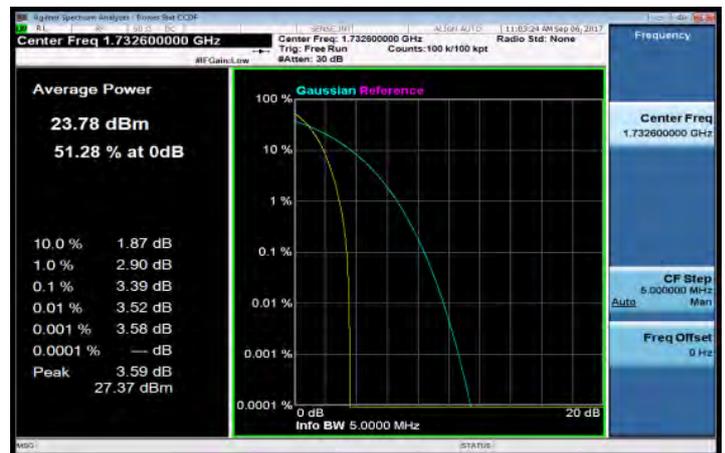
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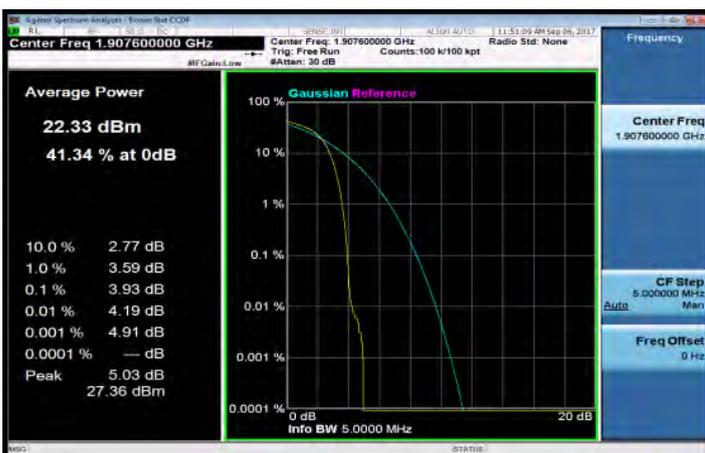
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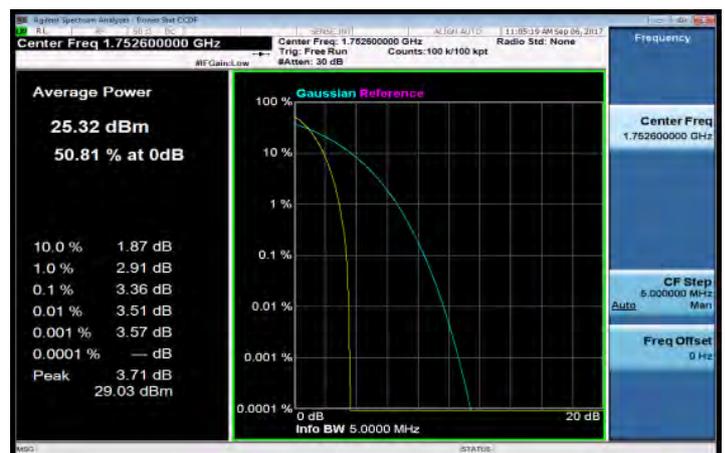
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WCDMA_B4_HighCH1513-1752.6



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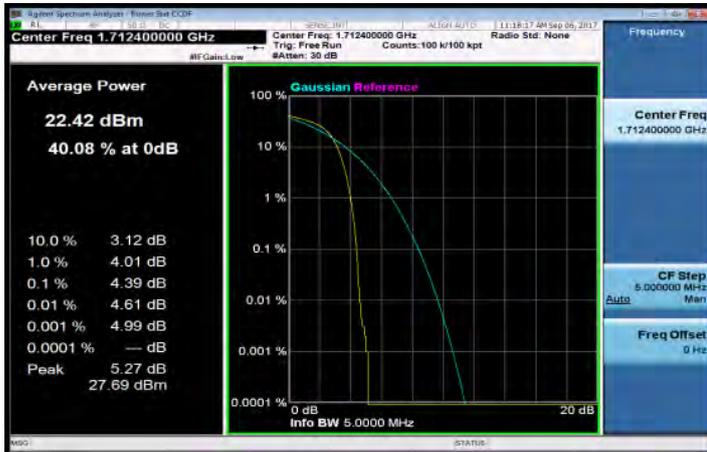
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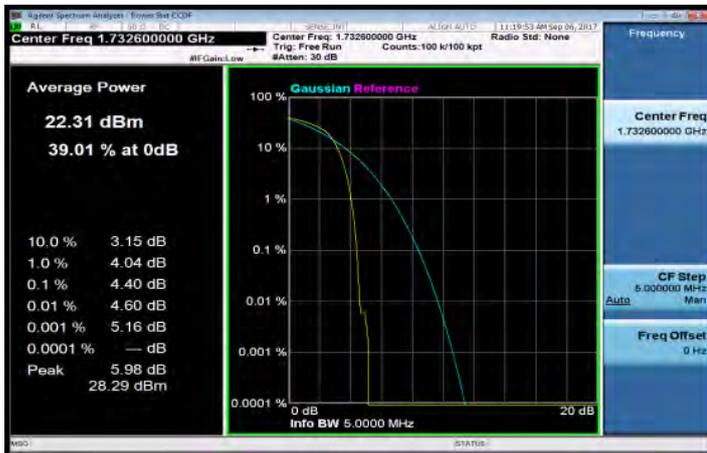
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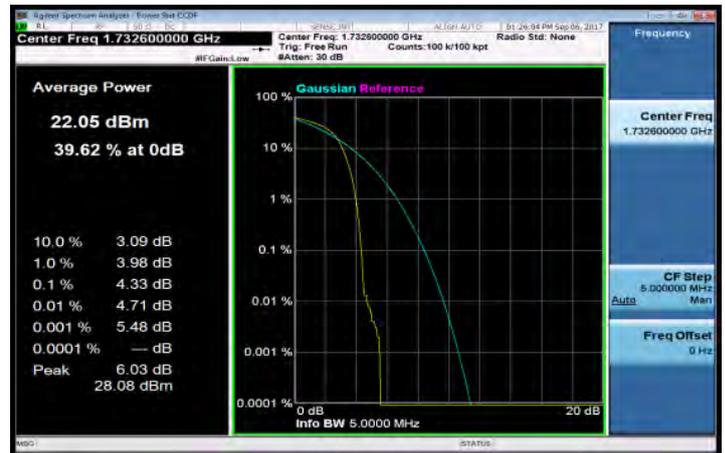
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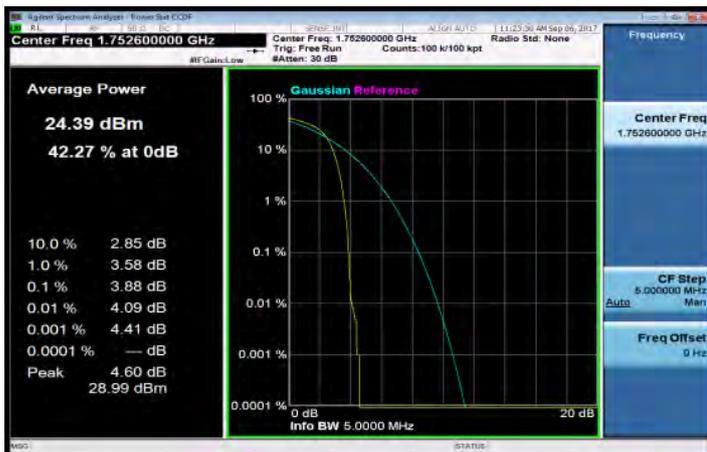
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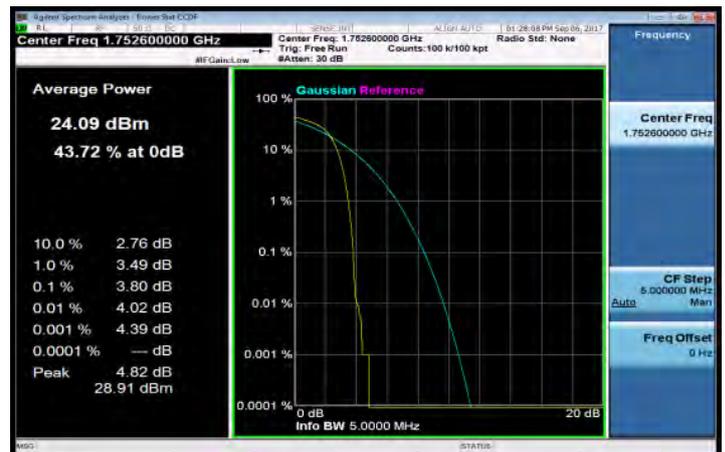
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HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



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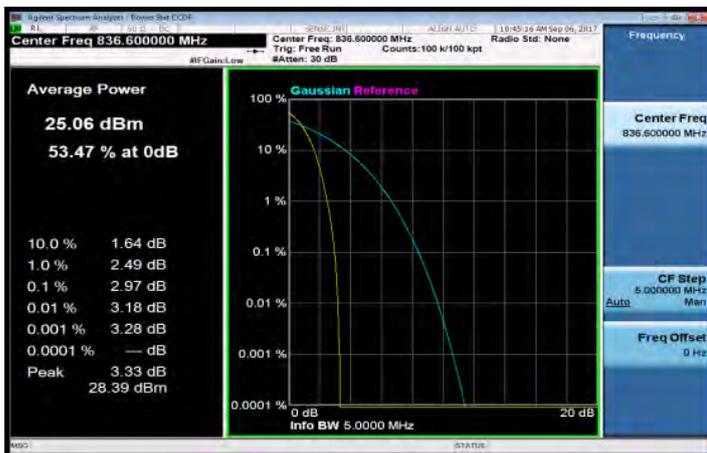
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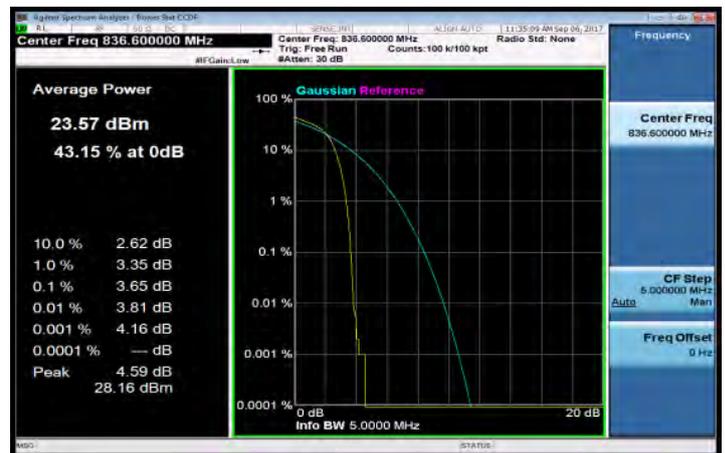
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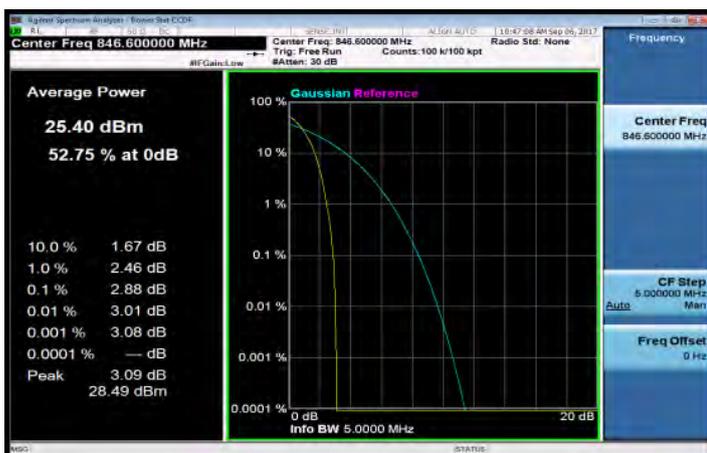
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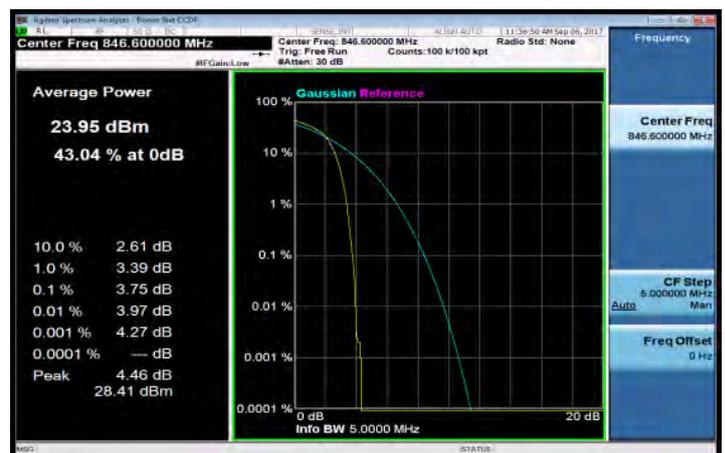
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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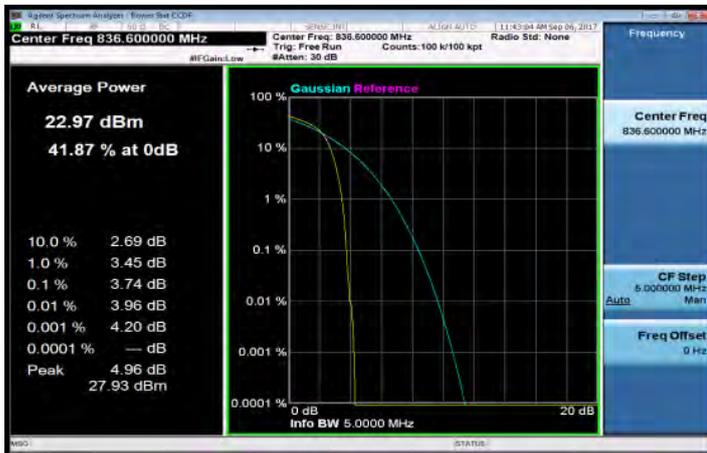
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LTE_Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



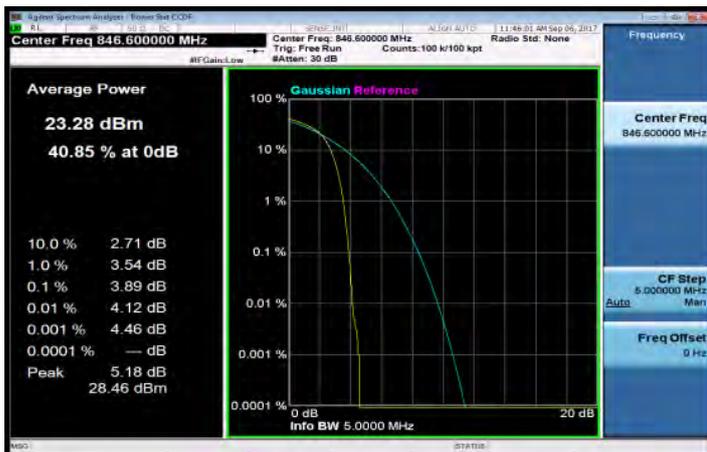
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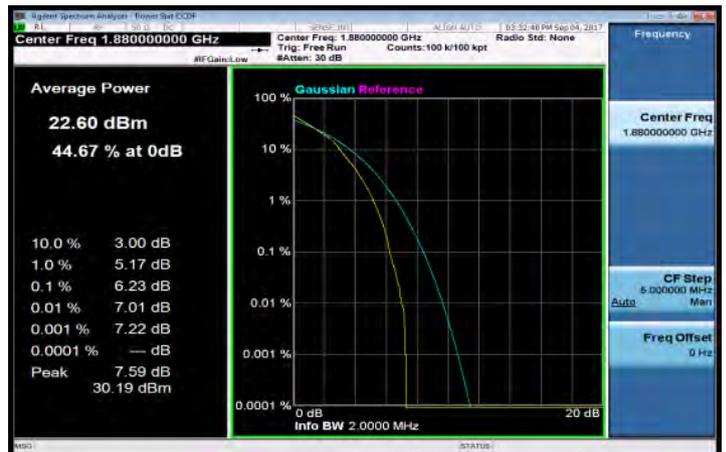
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HSUPA_B5_HighCH4233-846.6



LTE_Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



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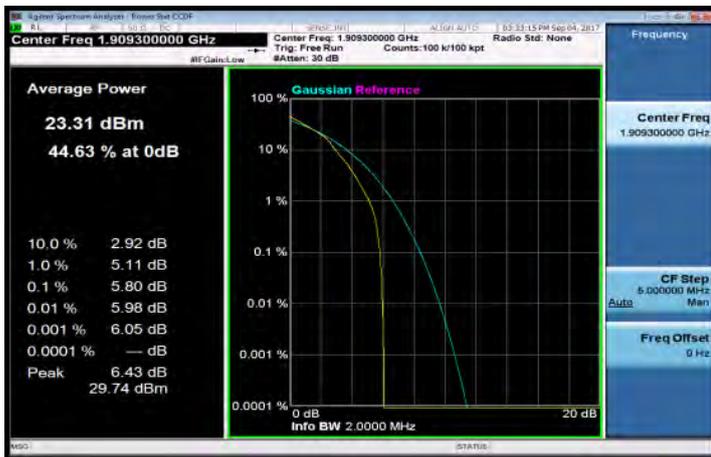
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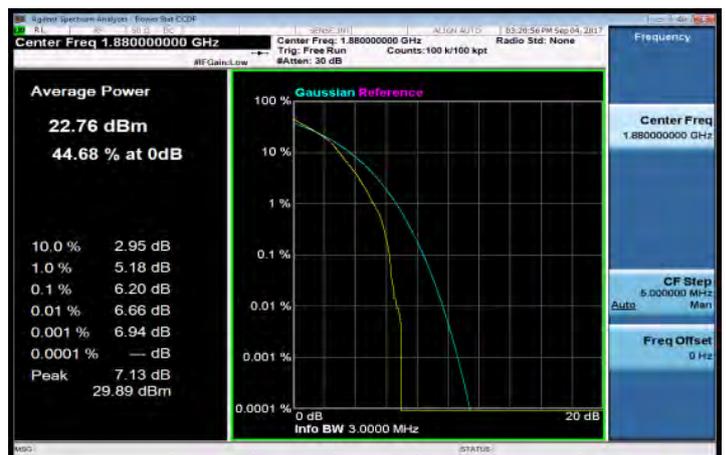
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LTE_Band2_3MHz_16QAM_15_0_MidCH18900-1880



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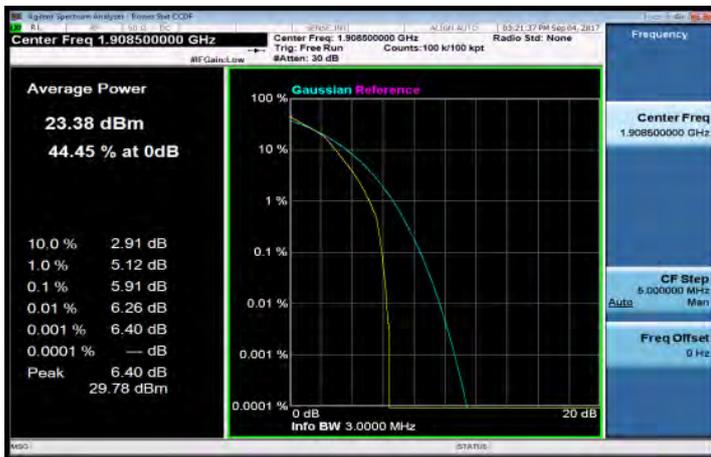
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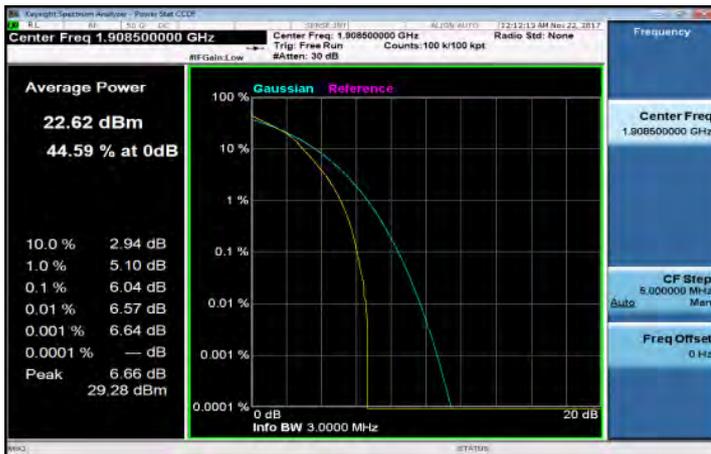
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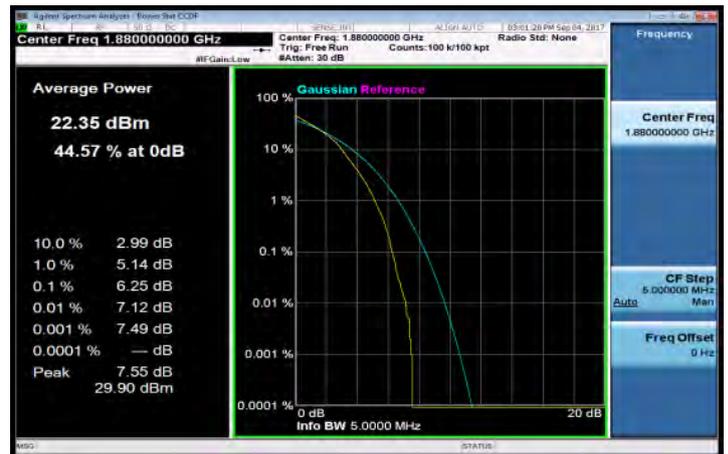
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LTE_Band2_10MHz_16QAM_50_0_LowCH18650-1855



LTE_Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



LTE_Band2_10MHz_64QAM_50_0_LowCH18650-1855



LTE_Band2_5MHz_64QAM_25_0_HighCH19175-1907.5



LTE_Band2_10MHz_16QAM_50_0_MidCH18900-1880



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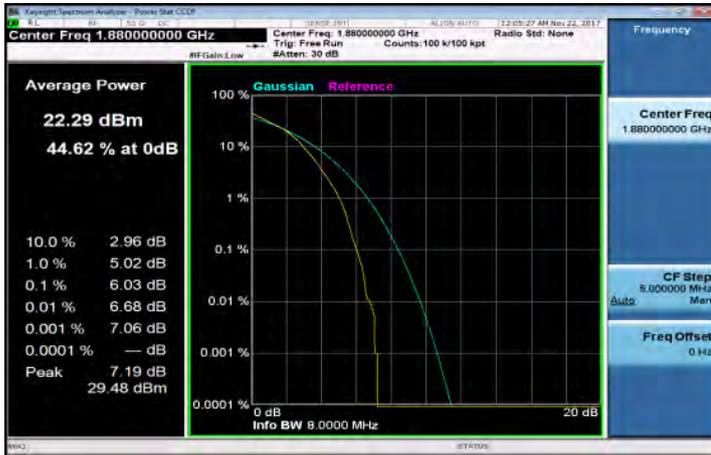
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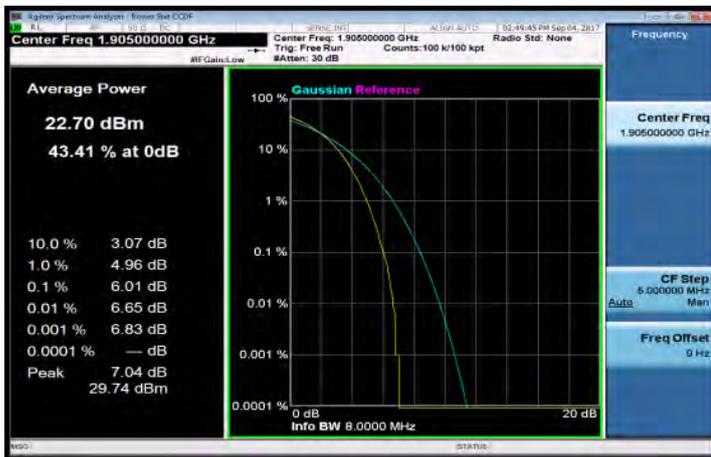
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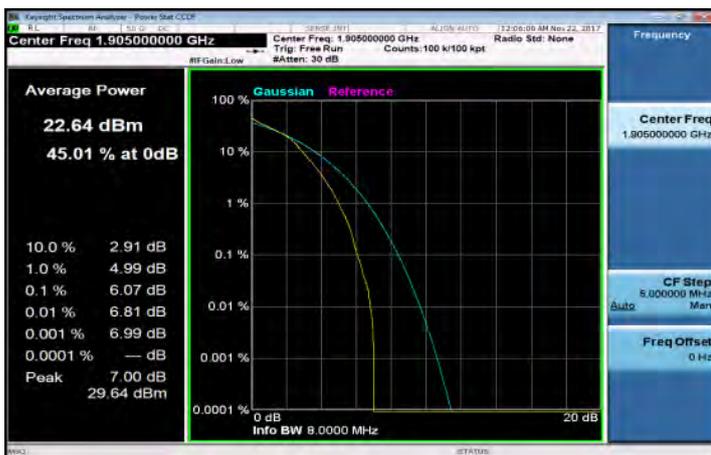
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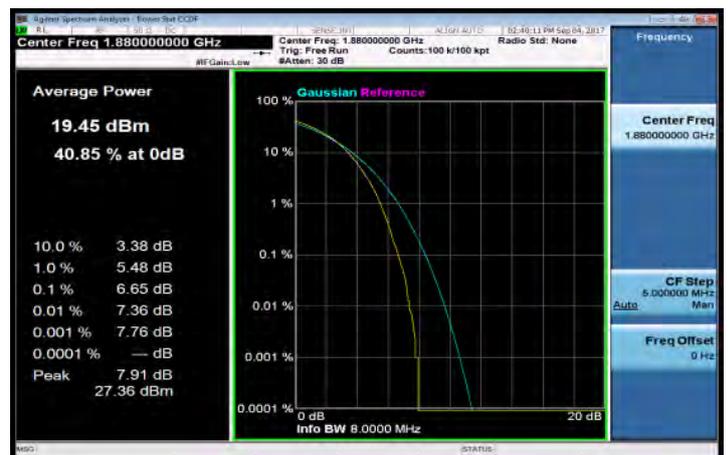
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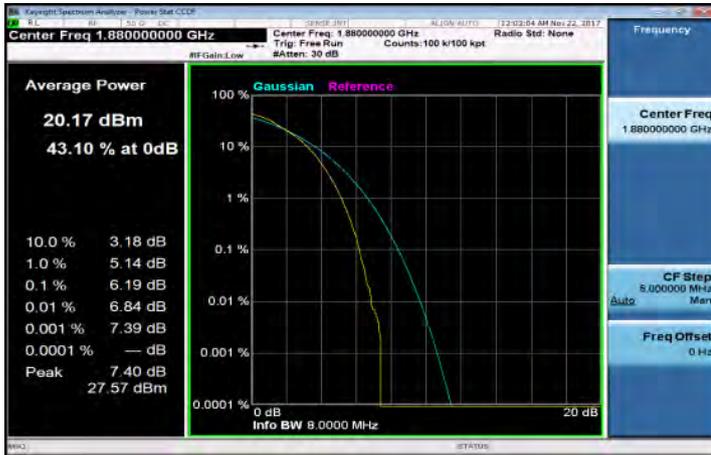
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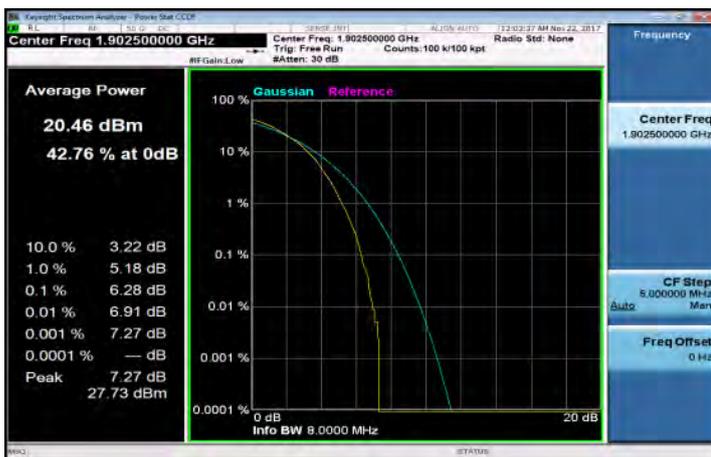
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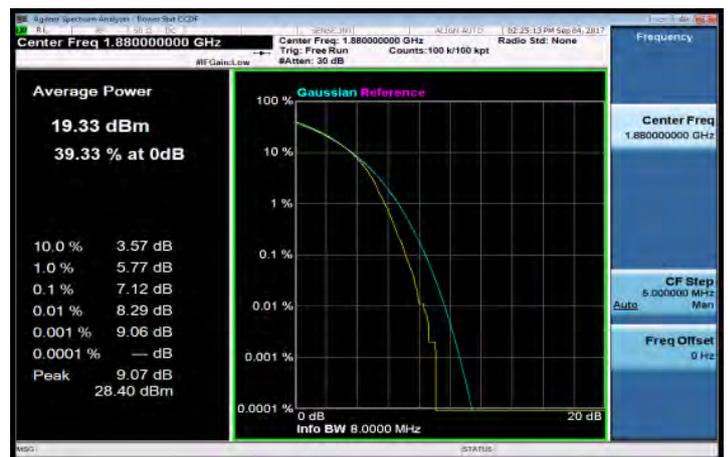
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LTE_Band2_20MHz_16QAM_100_0_MidCH18900-1880



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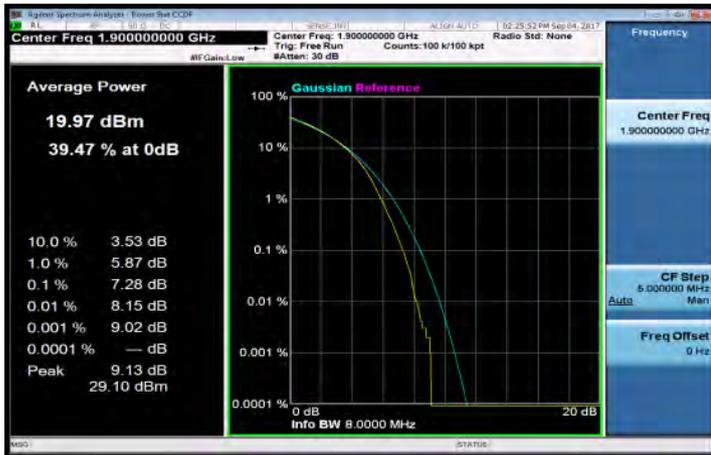
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LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900



LTE_Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



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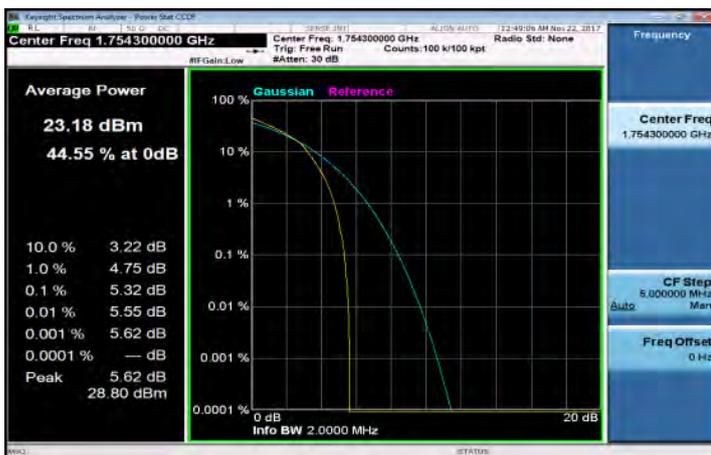
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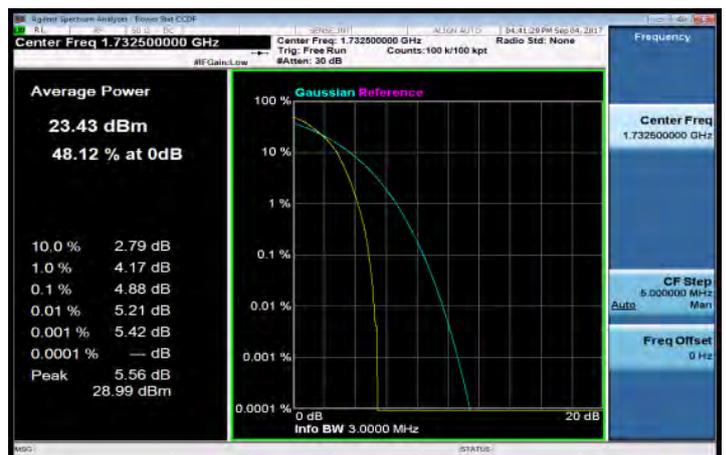
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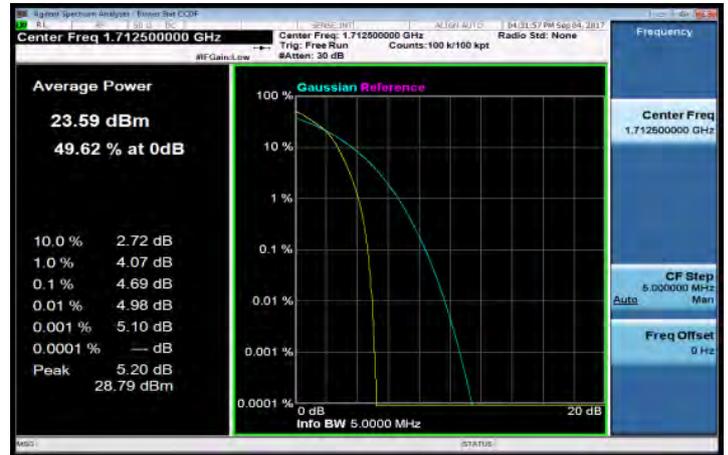
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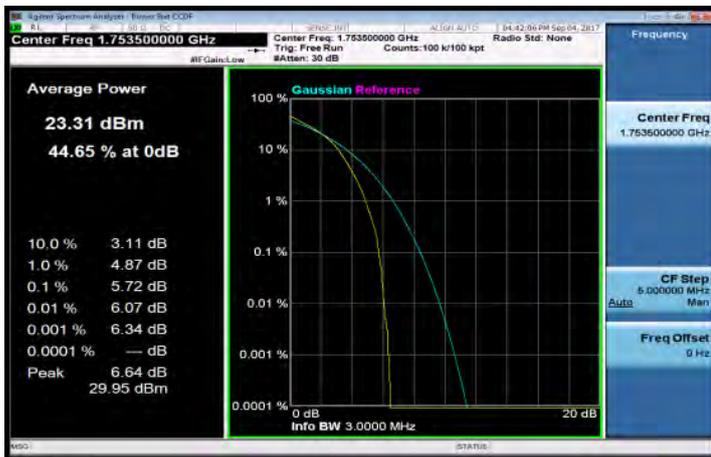
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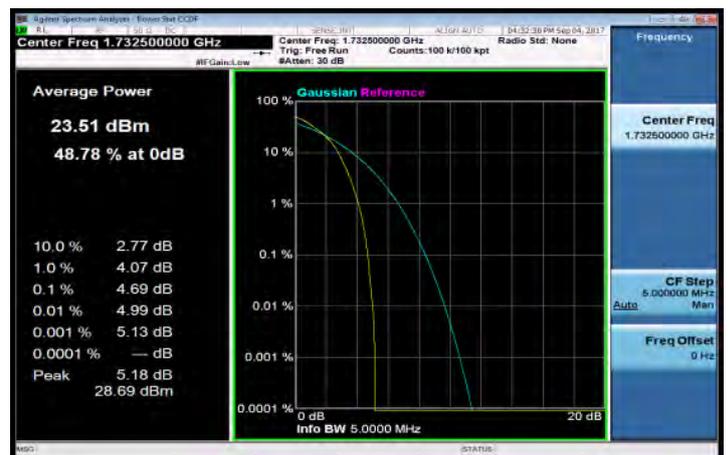
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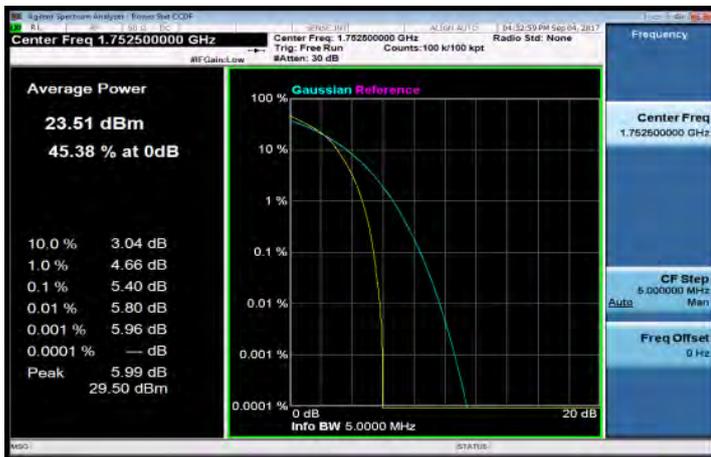
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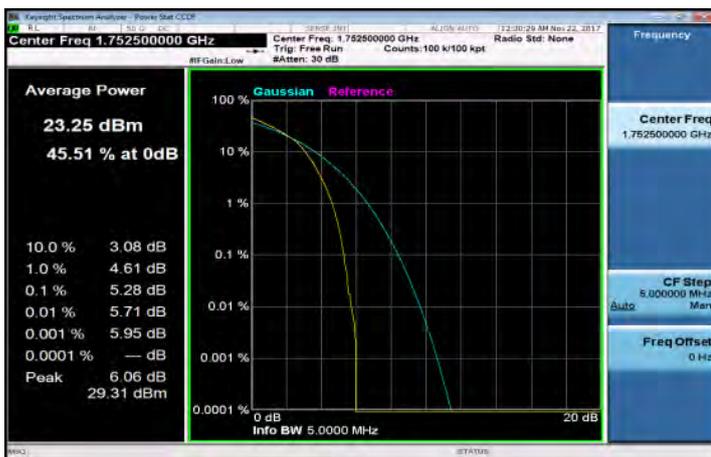
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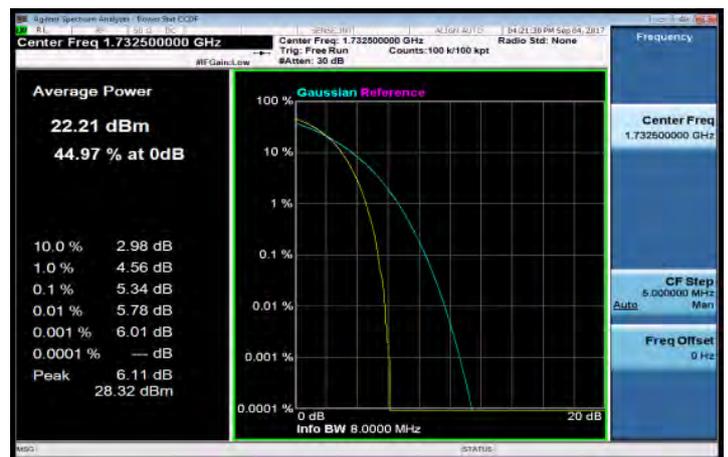
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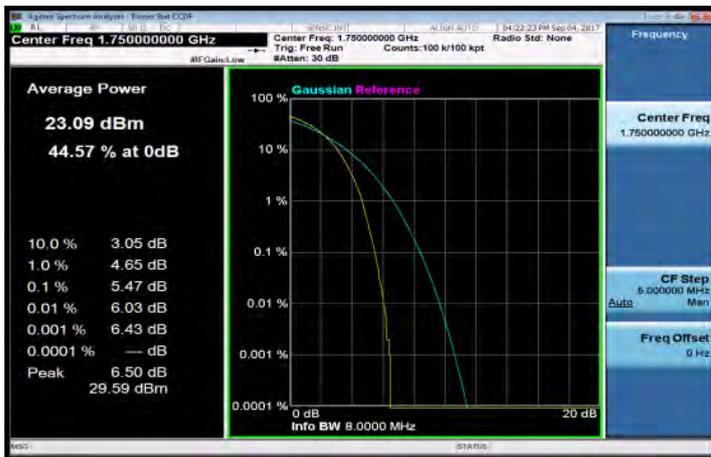
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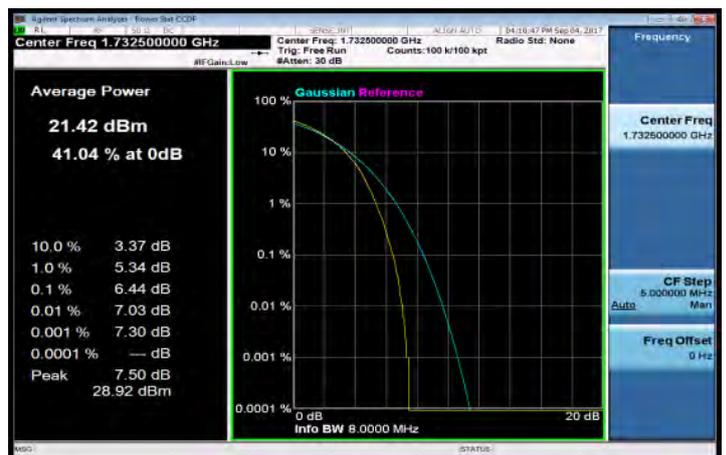
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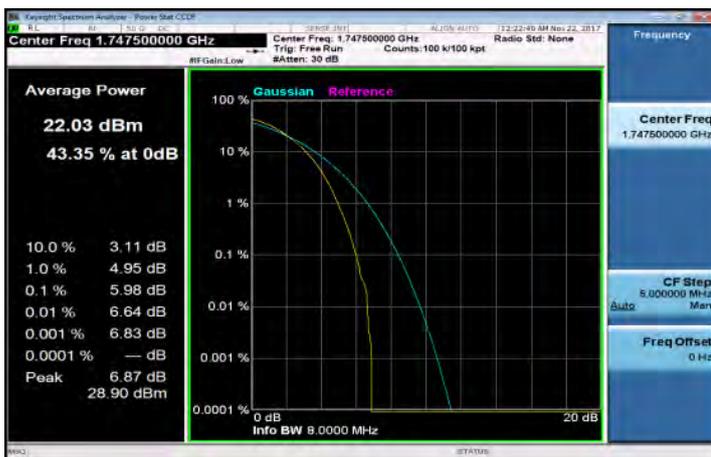
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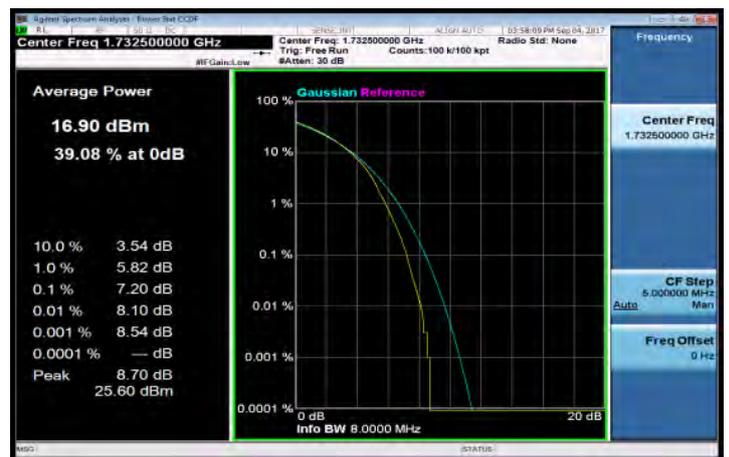
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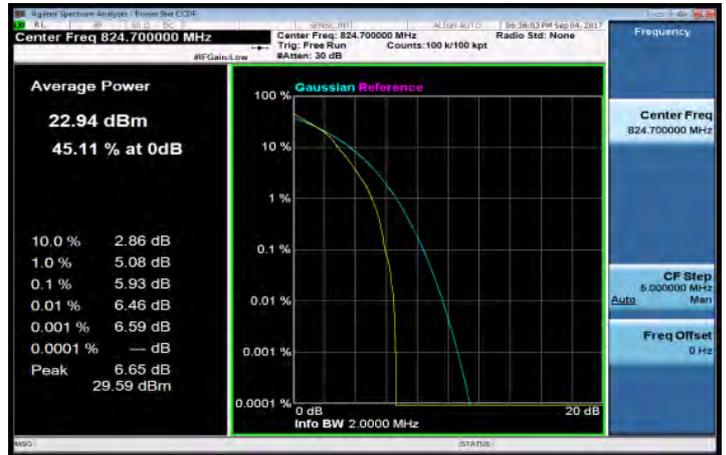
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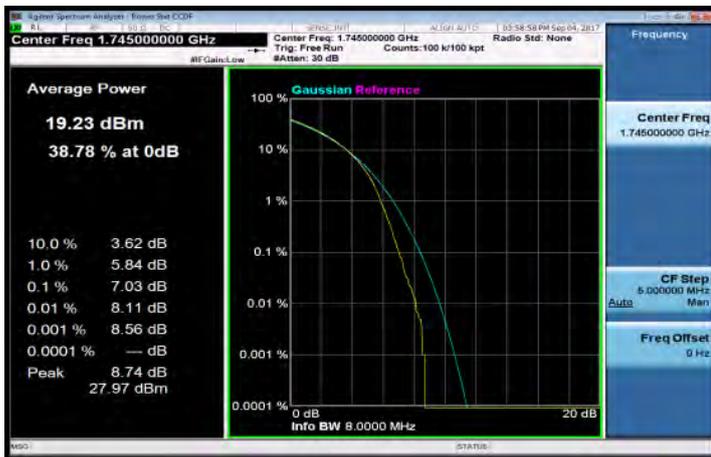
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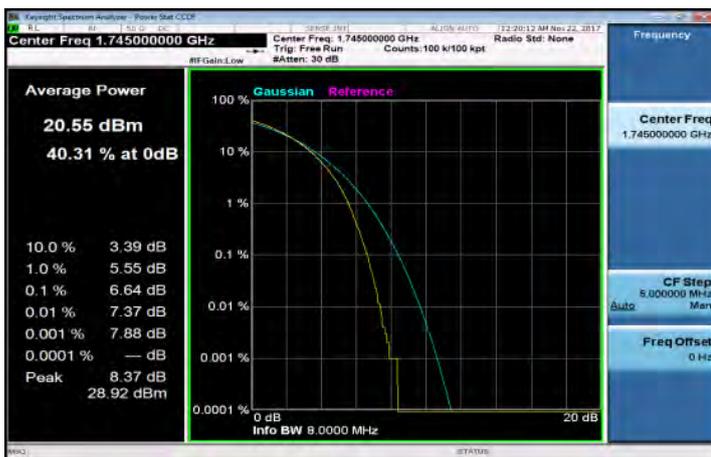
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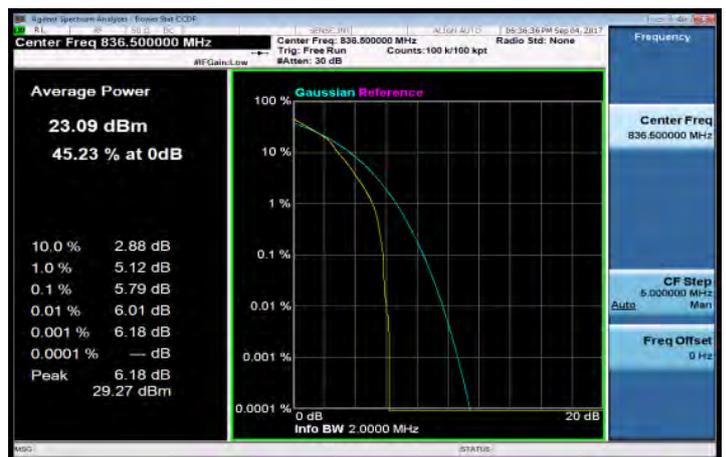
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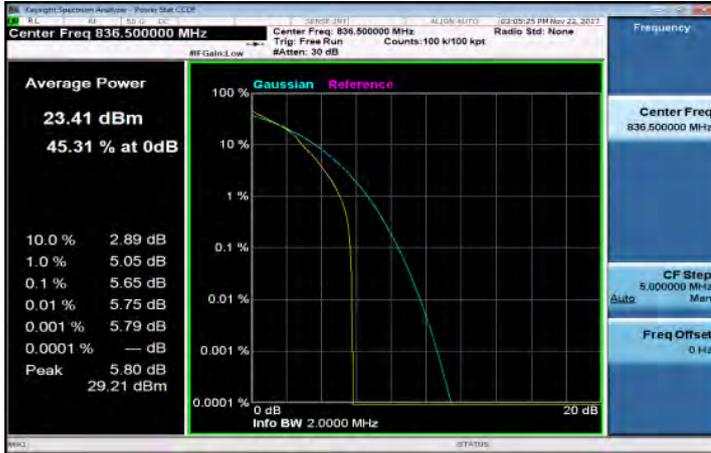
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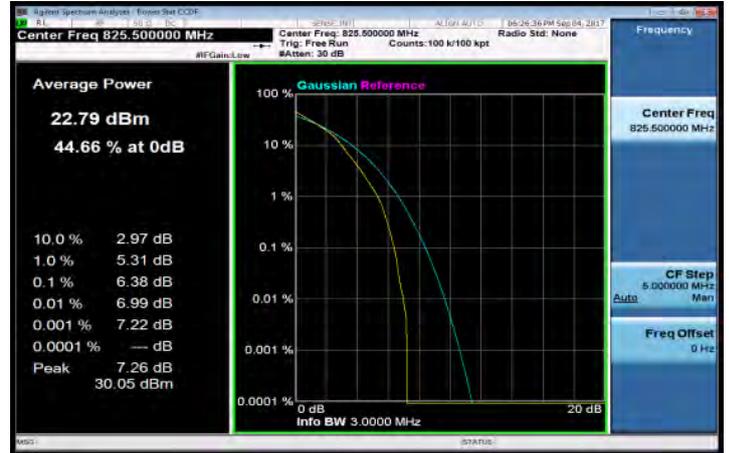
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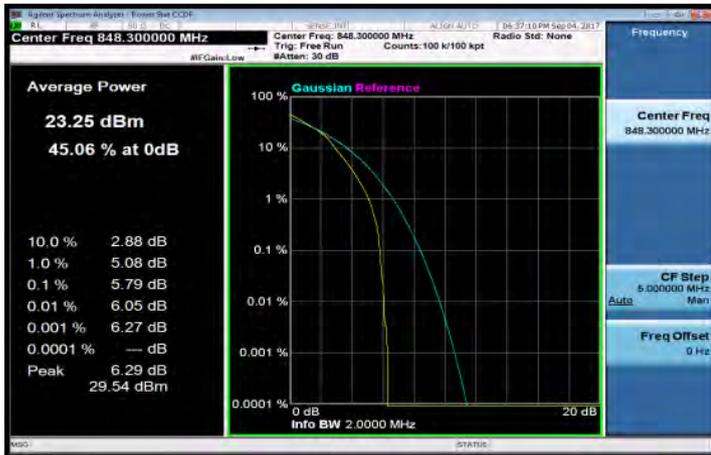
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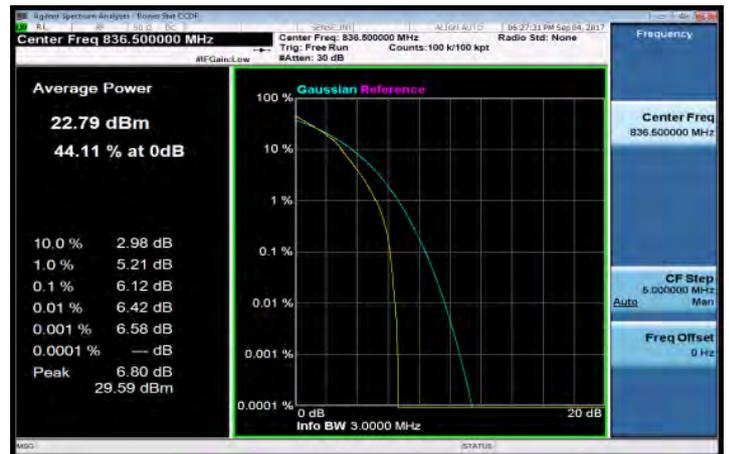
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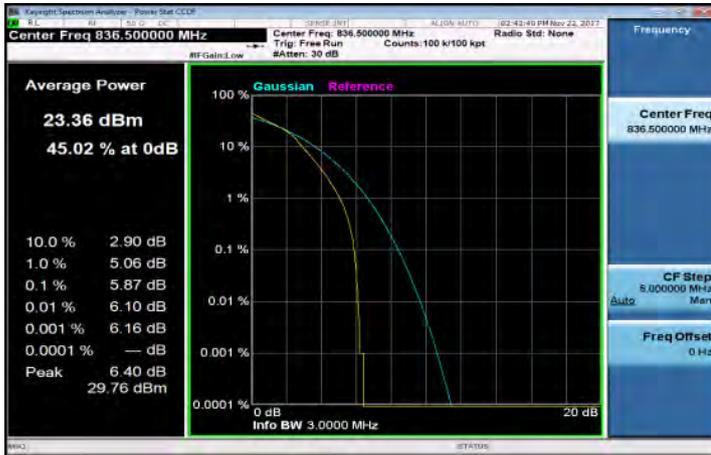
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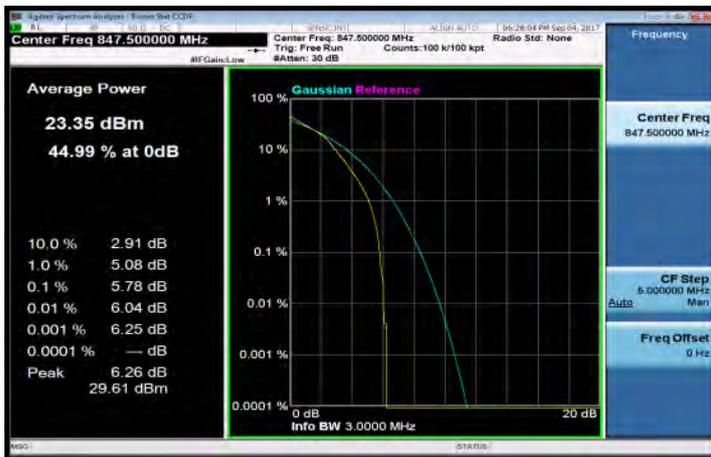
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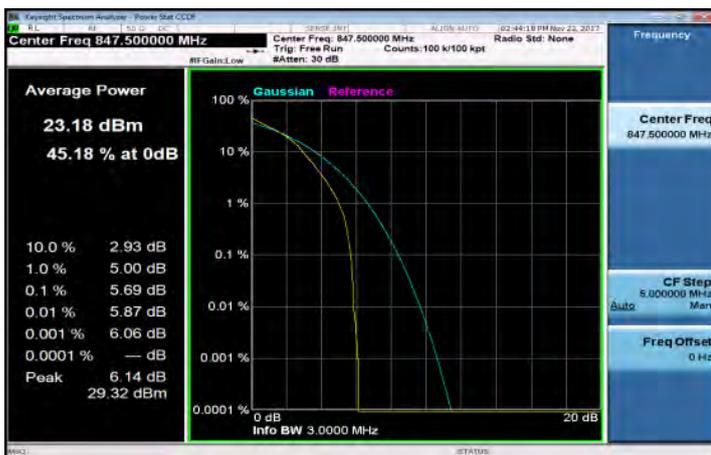
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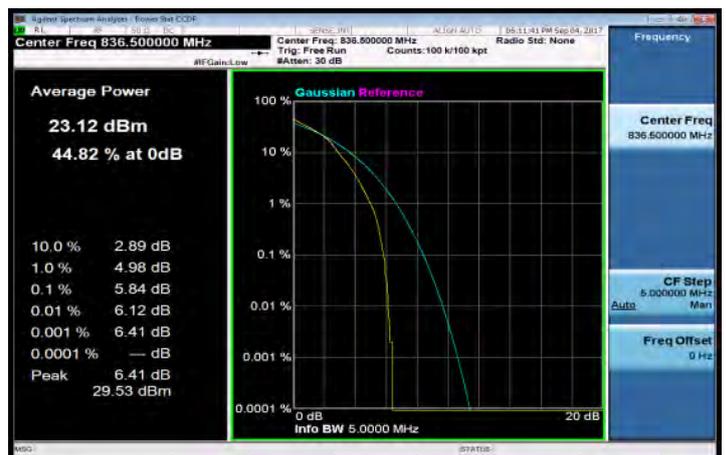
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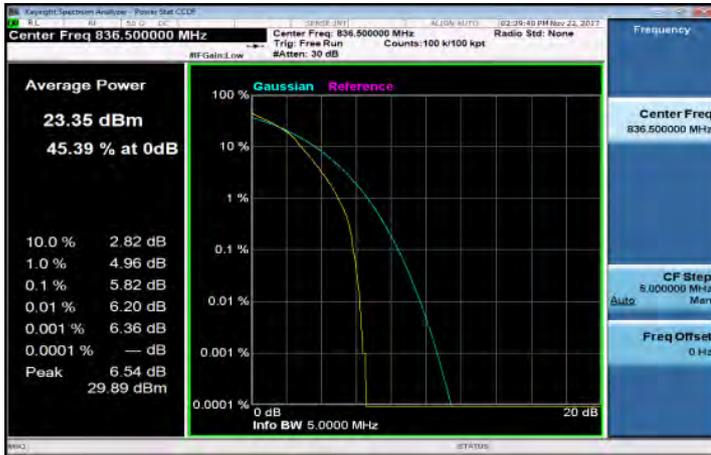
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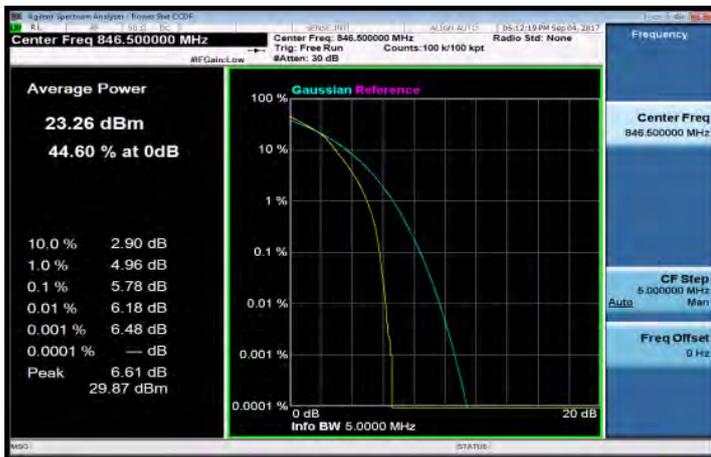
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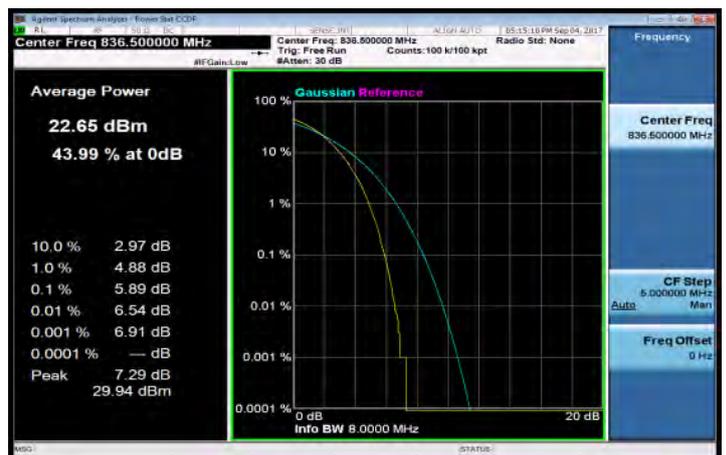
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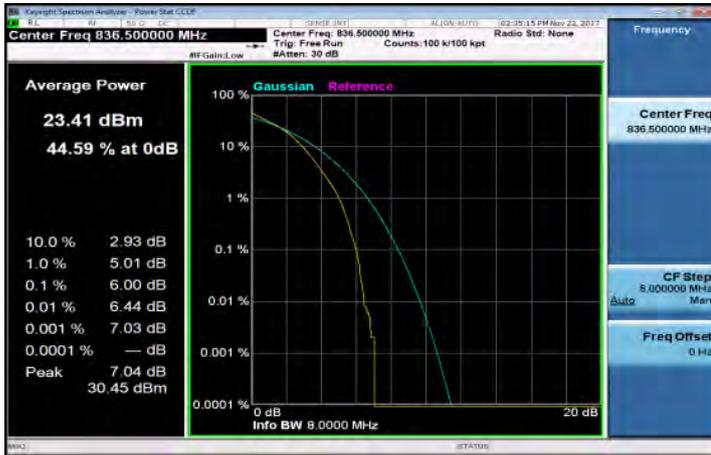
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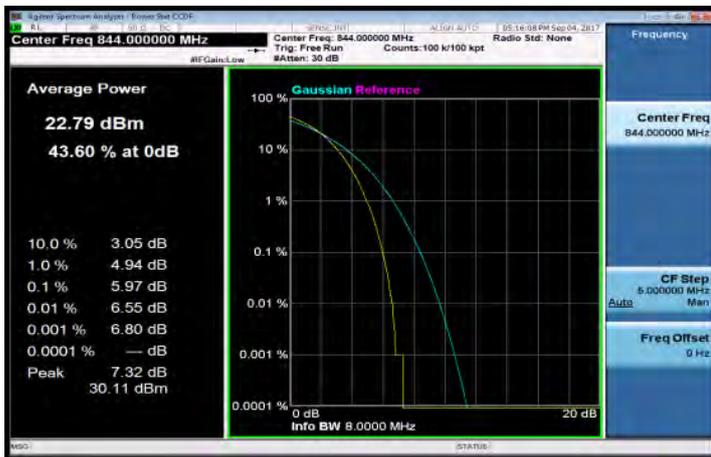
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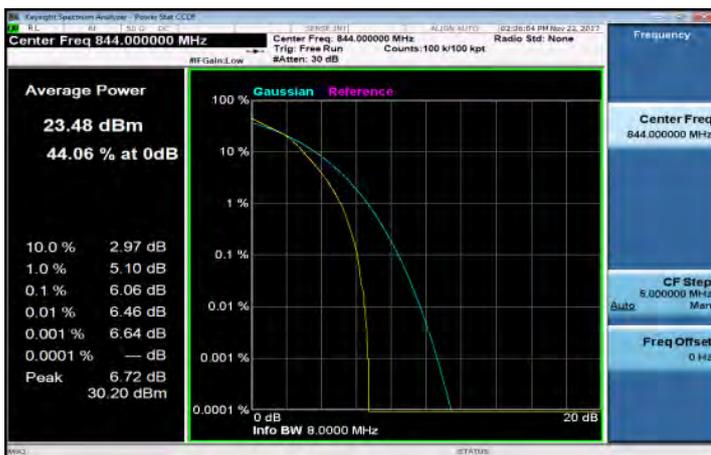
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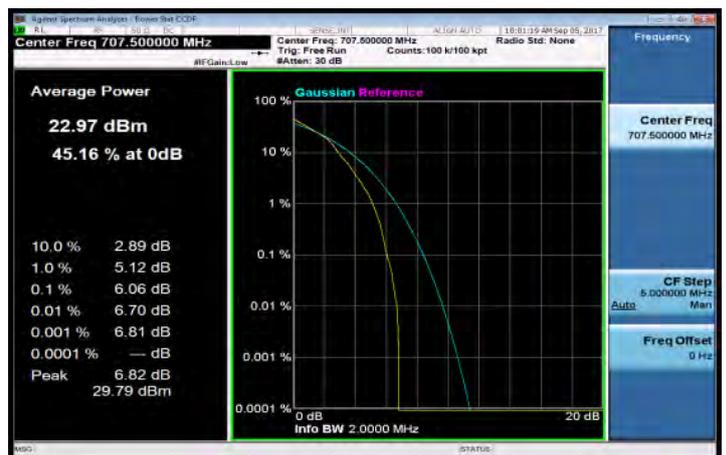
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LTE_Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



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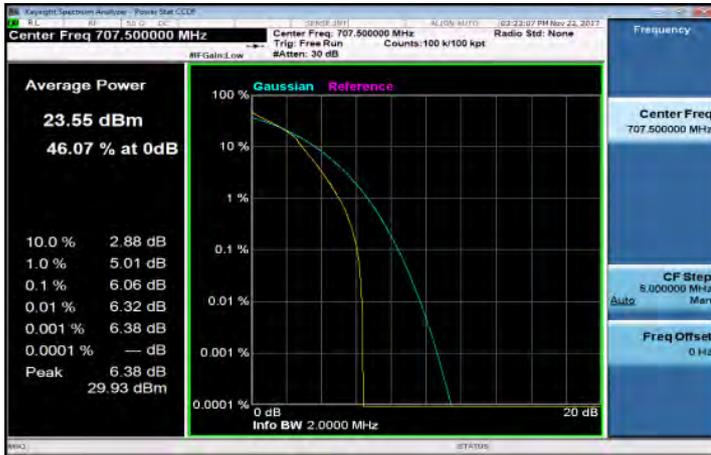
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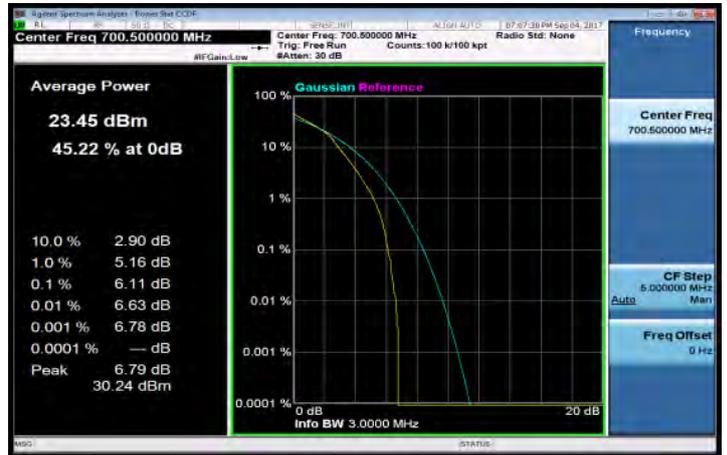
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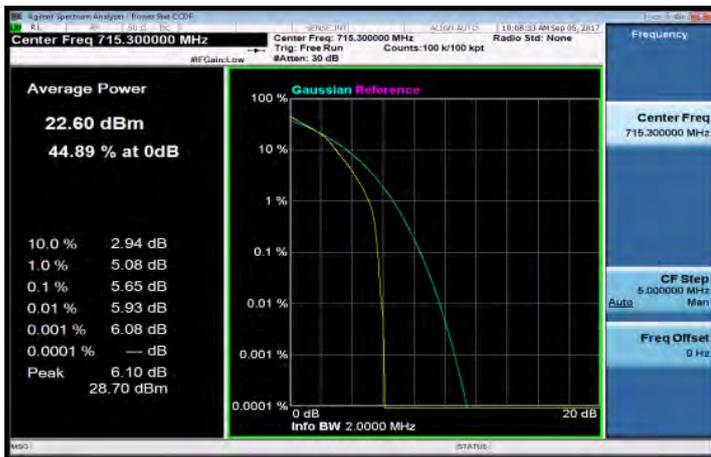
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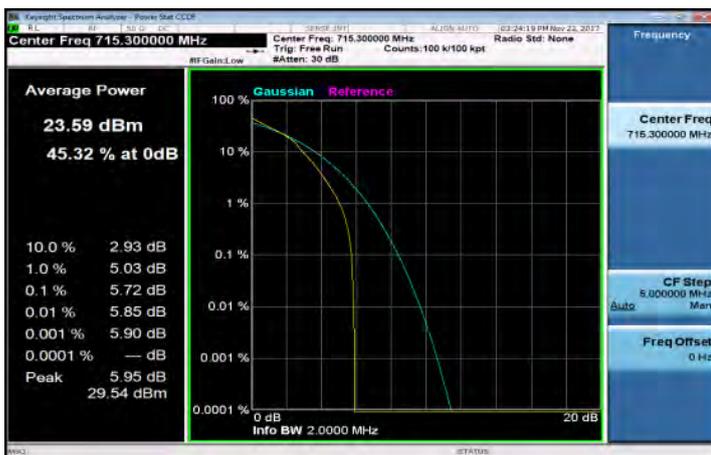
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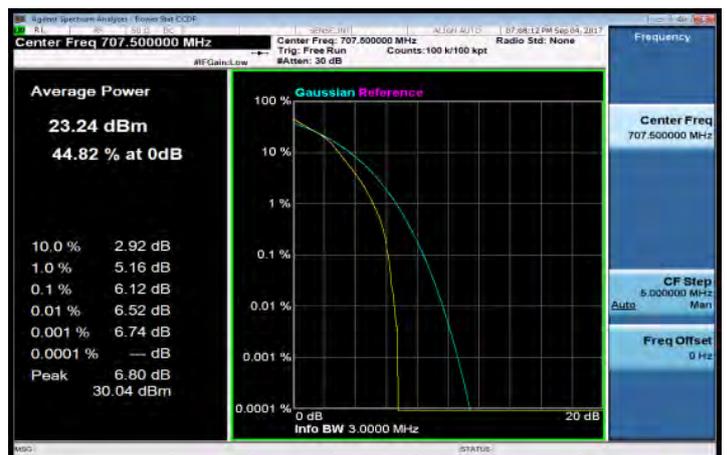
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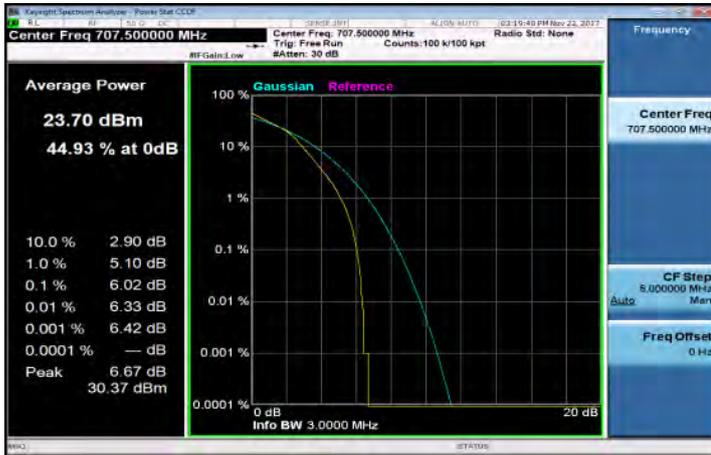
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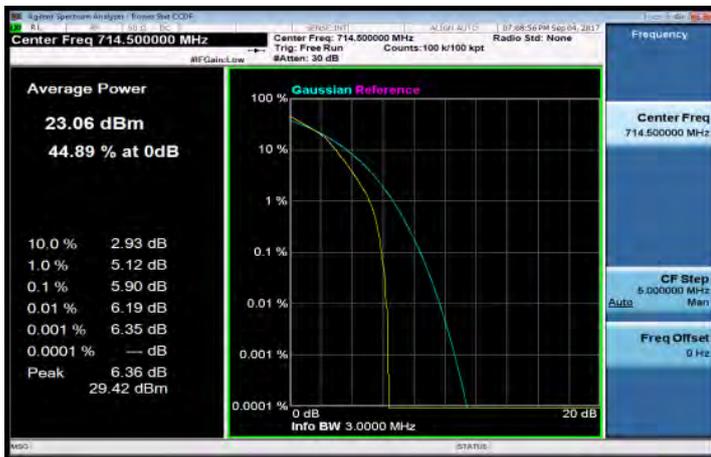
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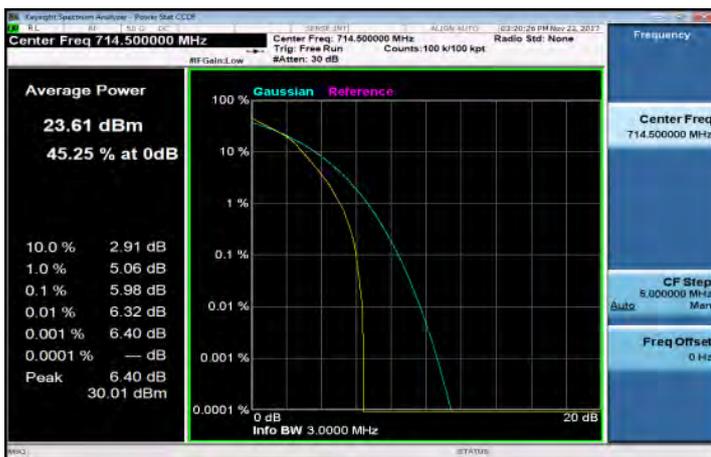
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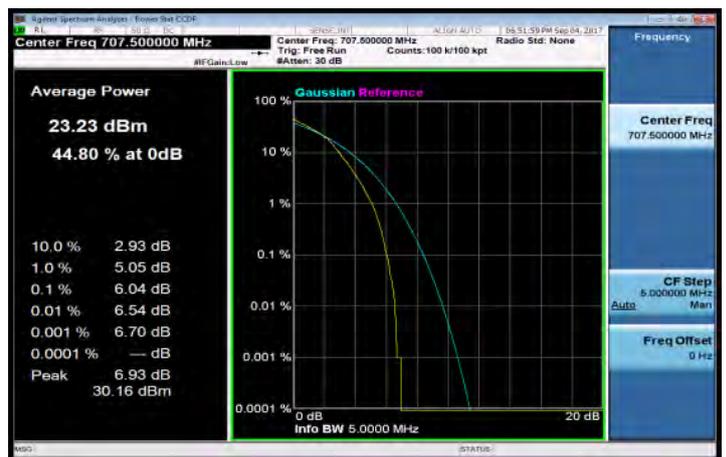
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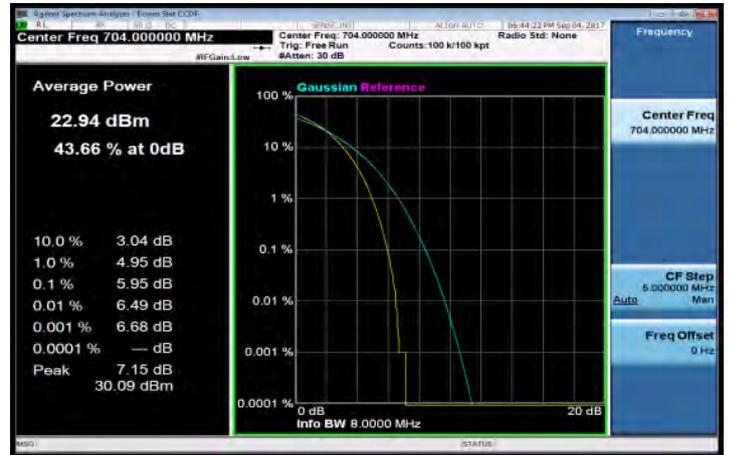
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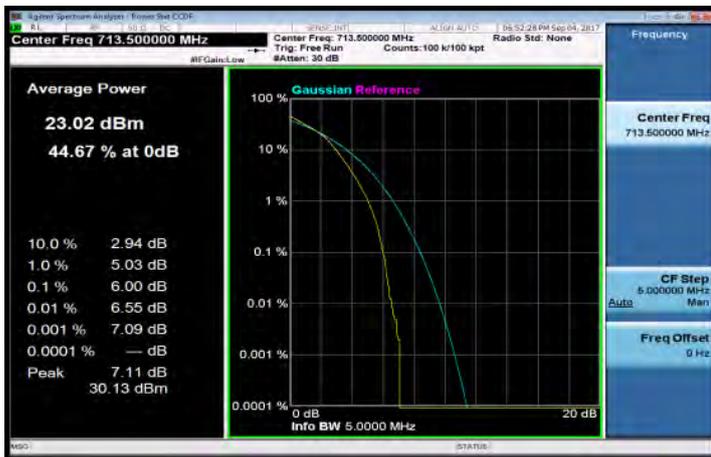
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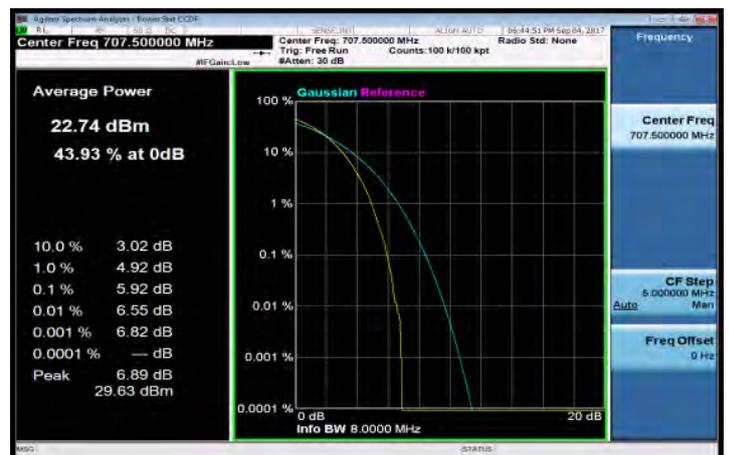
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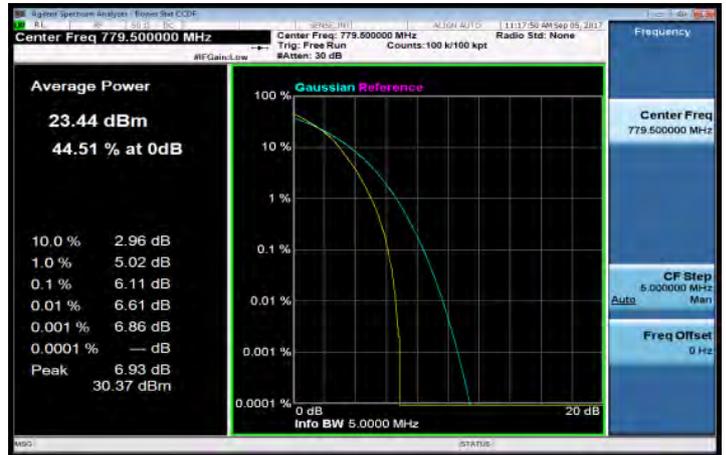
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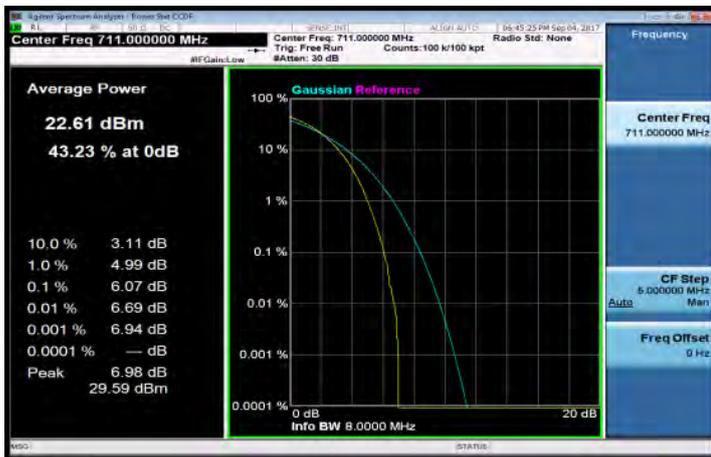
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LTE_Band13_5MHz_16QAM_25_0_LowCH23205-779.5



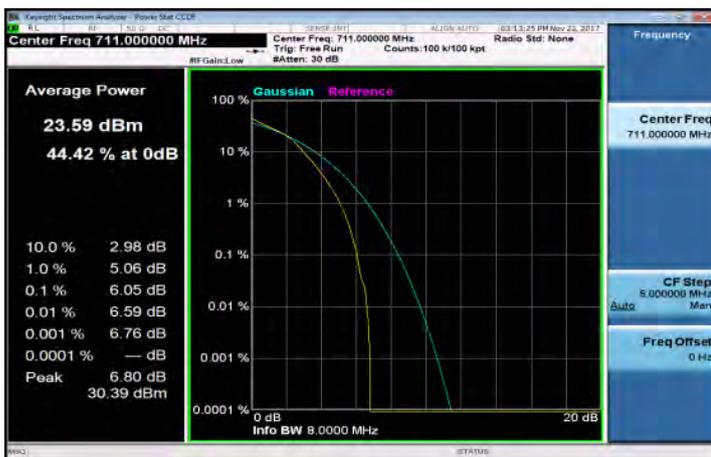
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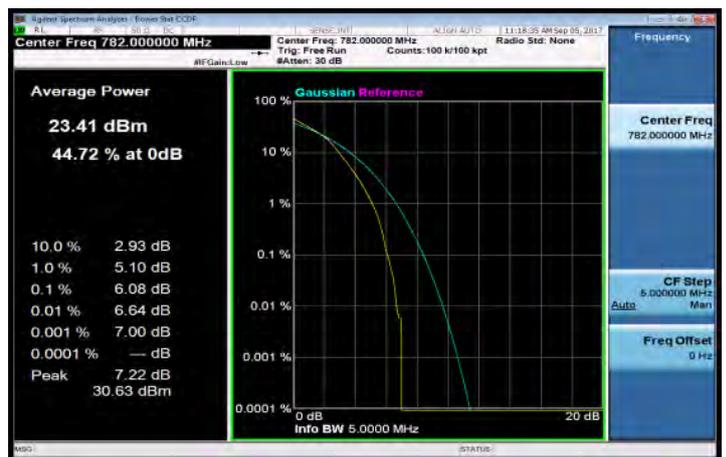
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LTE_Band12_10MHz_64QAM_50_0_HighCH23130-711



LTE_Band13_5MHz_16QAM_25_0_MidCH23230-782



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

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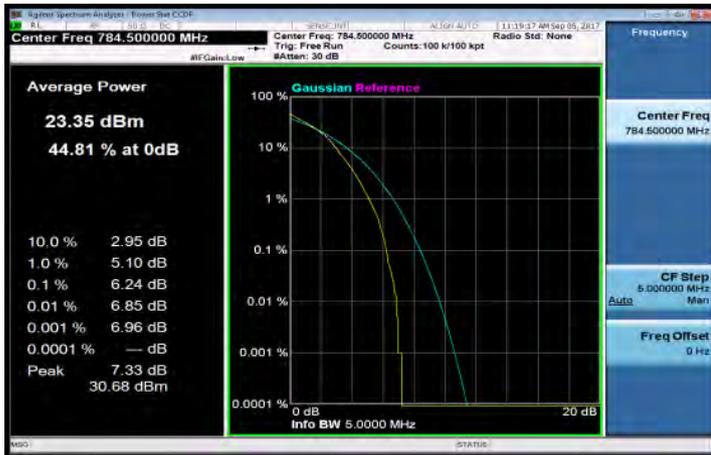
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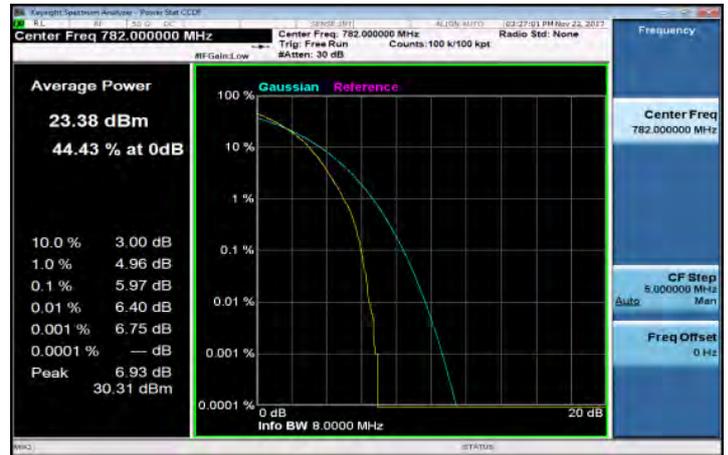
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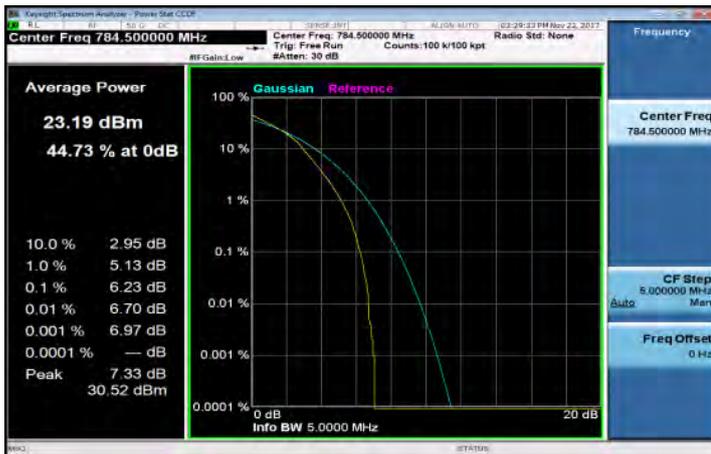
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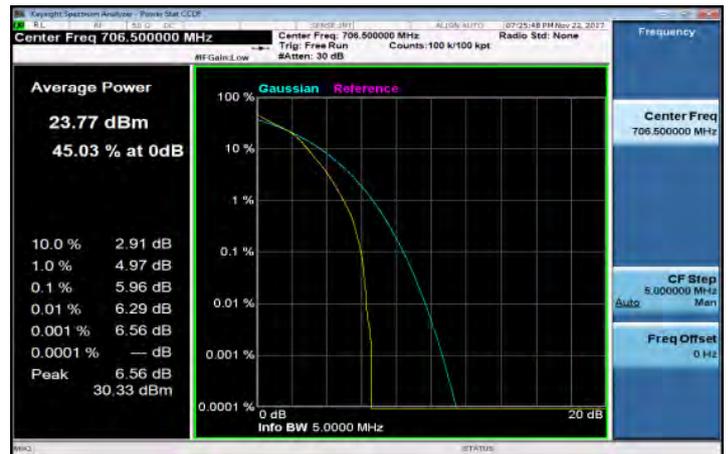
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LTE_Band13_5MHz_64QAM_25_0_HighCH23255-784.5



LTE_Band17_5MHz_64QAM_25_0_LowCH23755-706.5



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