

Band38\_5MHz\_QPSK\_25\_0\_LowCH37775-2572.5



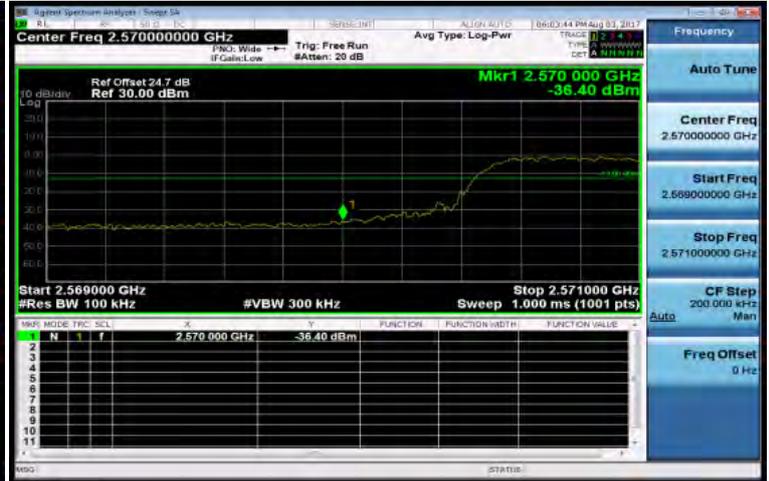
Band38\_10MHz\_QPSK\_1\_49\_HighCH38200-2615



Band38\_5MHz\_QPSK\_25\_0\_HighCH38225-2617.5



Band38\_10MHz\_QPSK\_50\_0\_LowCH37800-2575



Band38\_10MHz\_QPSK\_1\_0\_LowCH37800-2575



Band38\_10MHz\_QPSK\_50\_0\_HighCH38200-2615



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Band38\_15MHz\_QPSK\_1\_0\_LowCH37825-2577.5



Band38\_15MHz\_QPSK\_75\_0\_HighCH38175-2612.5



Band38\_15MHz\_QPSK\_1\_74\_HighCH38175-2612.5



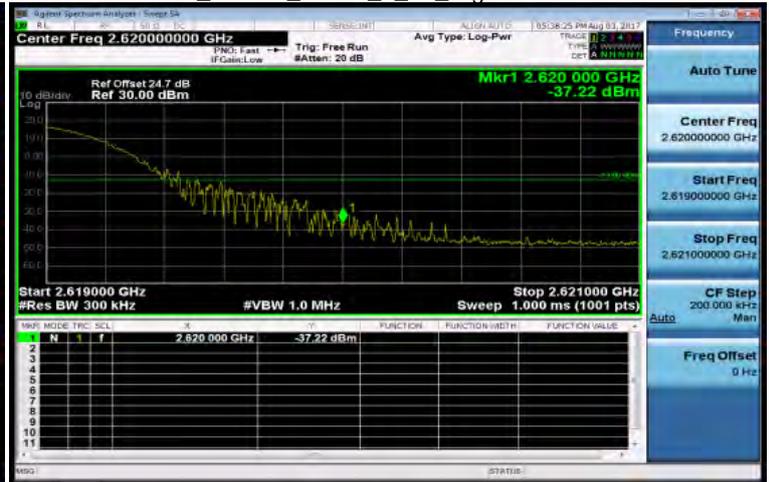
Band38\_20MHz\_QPSK\_1\_0\_LowCH37850-2580



Band38\_15MHz\_QPSK\_75\_0\_LowCH37825-2577.5



Band38\_20MHz\_QPSK\_1\_99\_HighCH38150-2610

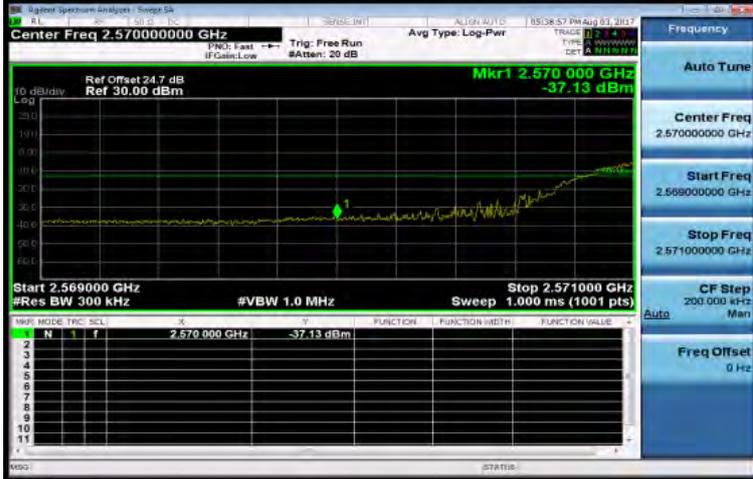


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Band38\_20MHz\_QPSK\_100\_0\_LowCH37850-2580



Band41\_5MHz\_QPSK\_1\_24\_High CH41565-2687.5



Band38\_20MHz\_QPSK\_100\_0\_HighCH38150-2610



Band41\_5MHz\_QPSK\_25\_0\_Low CH39675-2498.5



Band41\_5MHz\_QPSK\_1\_0\_Low CH39675-2498.5



Band41\_5MHz\_QPSK\_25\_0\_High



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Band41\_10MHz\_QPSK\_1\_0\_Low CH39700-2501



Band41\_10MHz\_QPSK\_50\_0\_High CH41540-2685



Band41\_10MHz\_QPSK\_1\_49\_High CH41540-2685



Band41\_15MHz\_QPSK\_1\_0\_Low CH39725-2503.5



Band41\_10MHz\_QPSK\_50\_0\_Low CH39700-2501



Band41\_15MHz\_QPSK\_1\_74\_High CH41515-2682.5



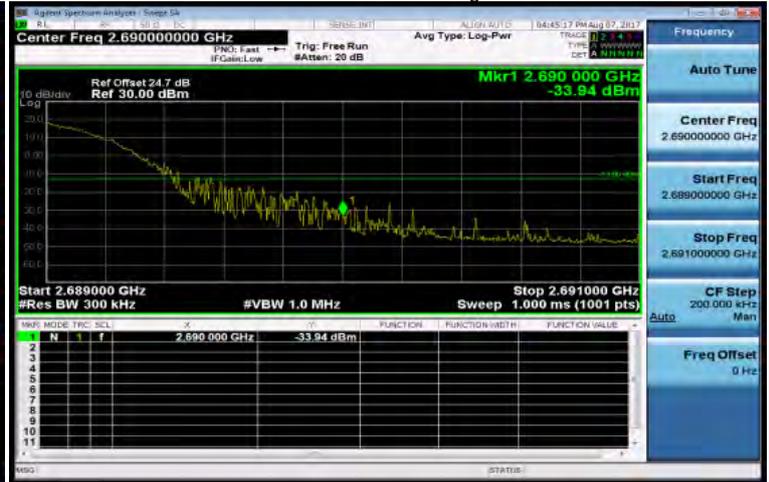
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Band41\_15MHz\_QPSK\_75\_0\_Low CH39725-2503.5



Band41\_20MHz\_QPSK\_1\_99\_High CH41490-2680



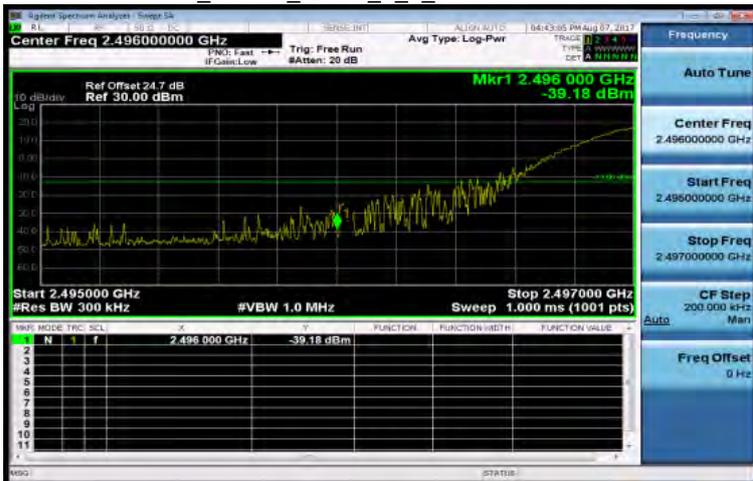
Band41\_15MHz\_QPSK\_75\_0\_High CH41515-2682.5



Band41\_20MHz\_QPSK\_100\_0\_Low CH39750-2506



Band41\_20MHz\_QPSK\_1\_0\_Low CH39750-2506



Band41\_20MHz\_QPSK\_100\_0\_High CH41490-2680



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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable

According to FCC §2.1053,

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

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

**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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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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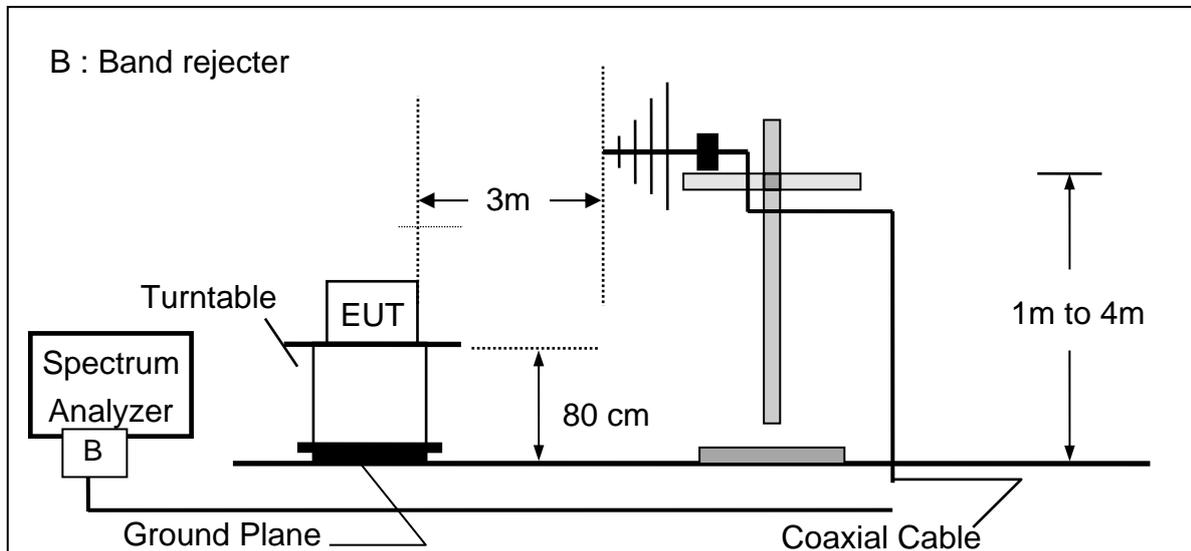
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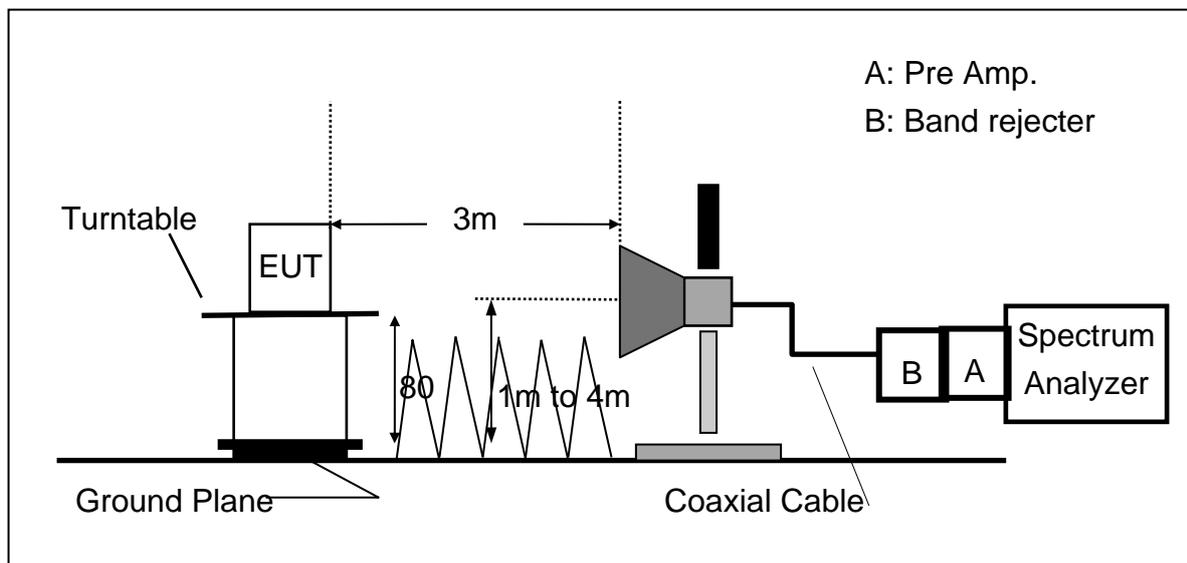
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## 10.2. EUT Setup

### 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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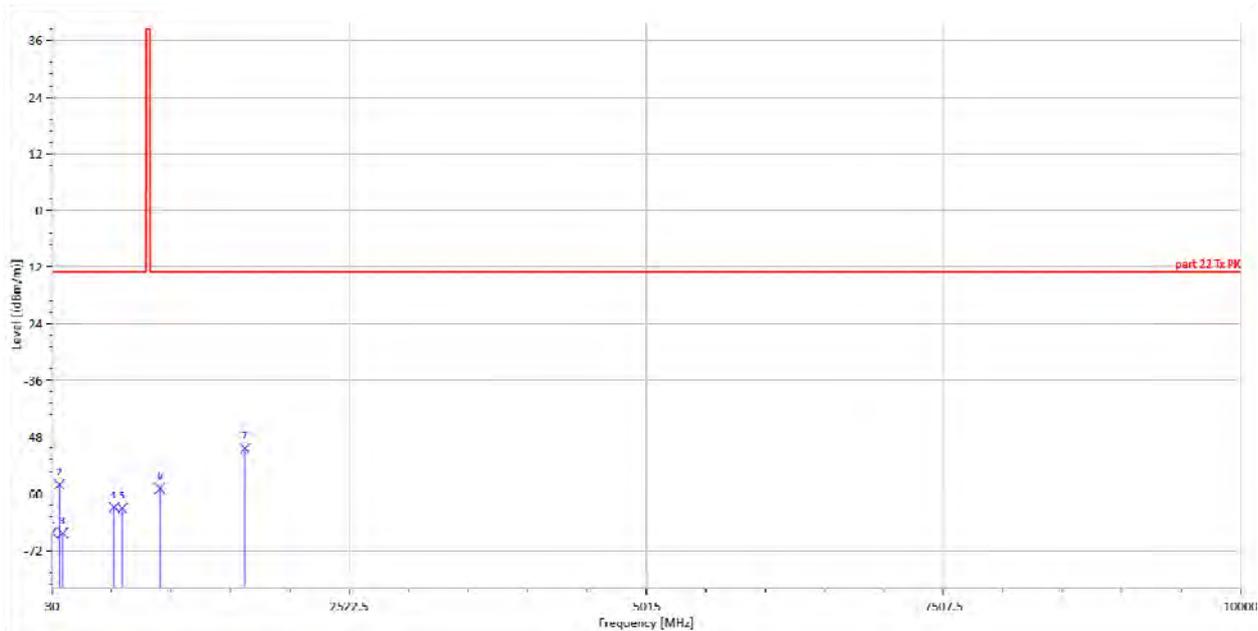
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### 10.5. Measurement Result:

#### Radiated Spurious Emission Measurement Result: GPRS 850 Mode (The Worst Case)

Operation Mode :	GPRS 850	Test Date :	2017/8/3
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	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	-68.21	-45.73	-21.66	-0.82	-13	-55.21
91.11	S	-58.09	-54.41	-2.38	-1.31	-13	-45.09
118.27	S	-68.34	-63.52	-3.32	-1.50	-13	-55.34
549.92	S	-62.86	-63.42	3.97	-3.41	-13	-49.86
618.79	S	-63.09	-63.90	4.43	-3.63	-13	-50.09
935.01	S	-58.89	-59.76	5.36	-4.49	-13	-45.89
1648.00	H	-50.41	-50.53	6.57	-6.45	-13	-37.41

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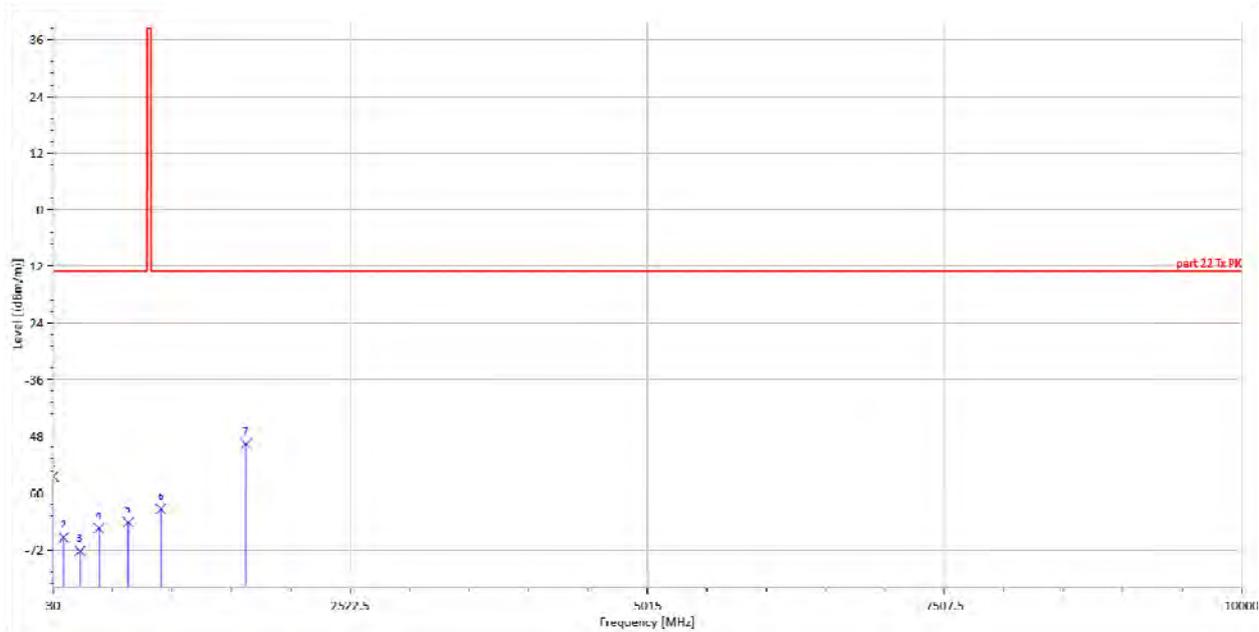
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Operation Mode : GPRS 850      Test Date : 2017/8/3  
 Fundamental Frequency : 824.2 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-56.49	-34.01	-21.66	-0.82	-13	-43.49
118.27	S	-69.42	-64.60	-3.32	-1.50	-13	-56.42
256.98	S	-72.29	-72.30	2.29	-2.28	-13	-59.29
416.06	S	-67.46	-67.86	3.33	-2.94	-13	-54.46
660.50	S	-66.21	-67.20	4.71	-3.72	-13	-53.21
935.01	S	-63.38	-64.25	5.36	-4.49	-13	-50.38
1648.00	H	-49.60	-49.72	6.57	-6.45	-13	-36.60

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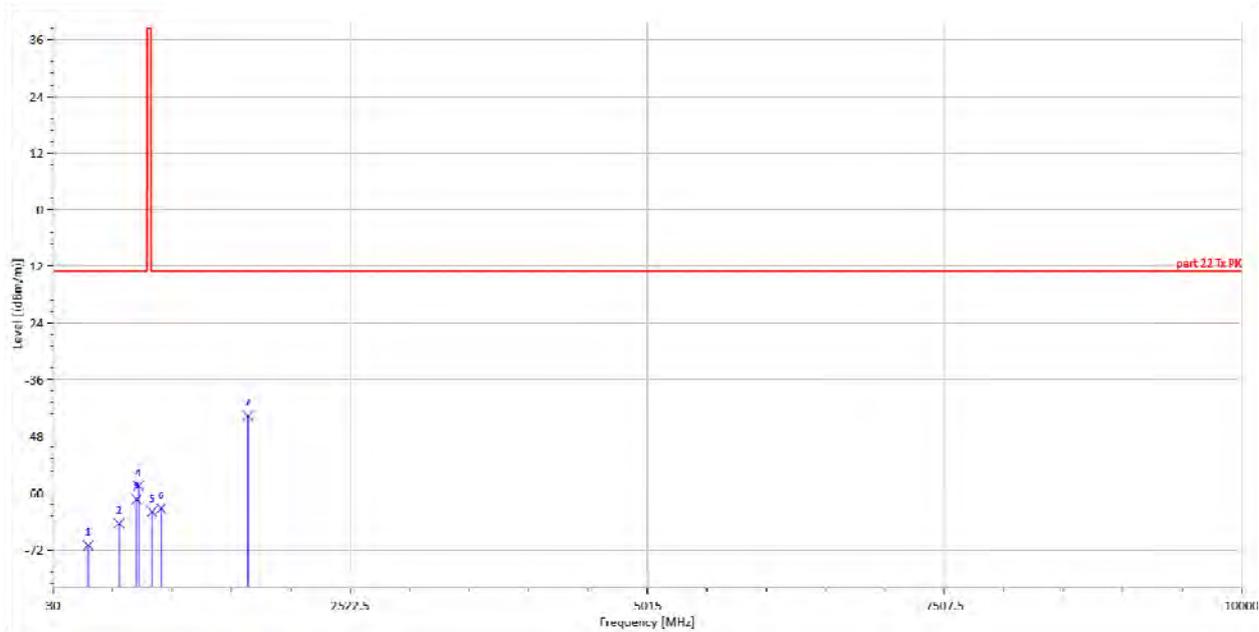
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Operation Mode : GPRS 850      Test Date : 2017/8/3  
 Fundamental Frequency : 836.6 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
324.88	S	-71.08	-71.97	3.47	-2.58	-13	-58.08
582.90	S	-66.43	-67.13	4.20	-3.50	-13	-53.43
730.34	S	-61.34	-62.56	5.12	-3.90	-13	-48.34
746.83	S	-58.47	-59.70	5.15	-3.93	-13	-45.47
860.32	S	-63.99	-64.77	5.09	-4.31	-13	-50.99
936.95	S	-63.24	-64.11	5.37	-4.49	-13	-50.24
1666.00	H	-43.65	-43.81	6.65	-6.49	-13	-30.65

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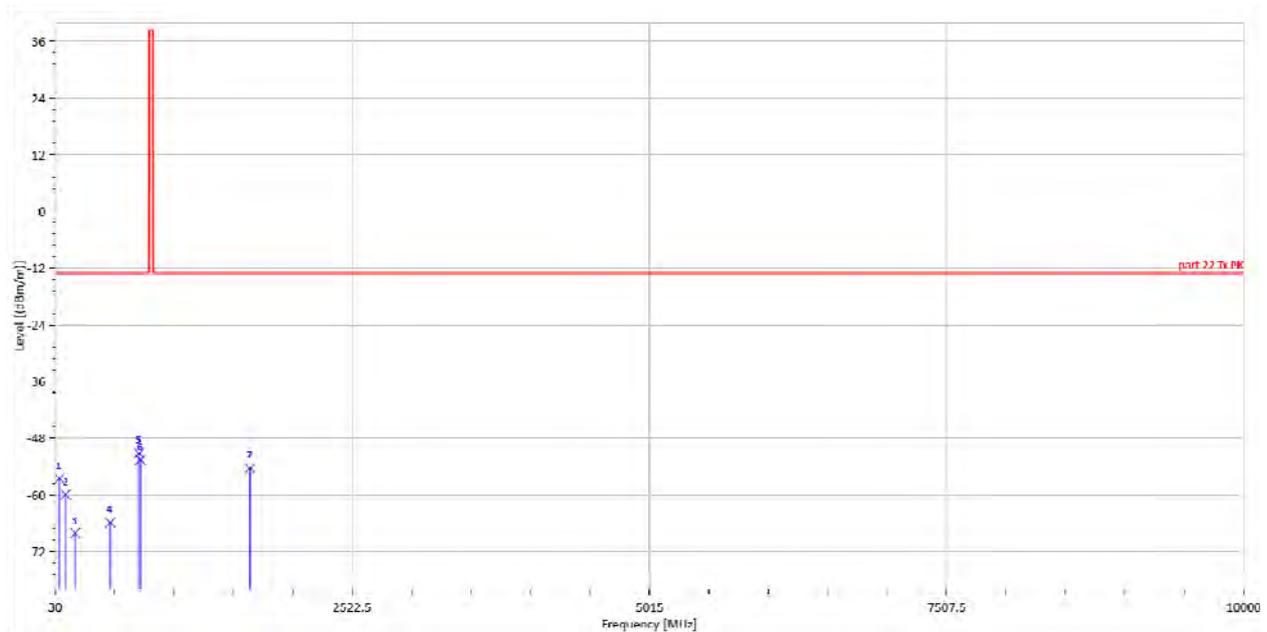
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Operation Mode : GPRS 850      Test Date : 2017/8/3  
 Fundamental Frequency : 836.6 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
65.89	S	-56.60	-53.05	-2.45	-1.10	-13	-43.60
118.27	S	-59.97	-55.15	-3.32	-1.50	-13	-46.97
198.78	S	-68.17	-70.01	3.82	-1.98	-13	-55.17
492.69	S	-65.92	-66.70	3.98	-3.20	-13	-52.92
733.25	S	-51.21	-52.44	5.13	-3.90	-13	-38.21
745.86	S	-52.59	-53.82	5.15	-3.93	-13	-39.59
1666.00	H	-54.35	-54.50	6.65	-6.49	-13	-41.35

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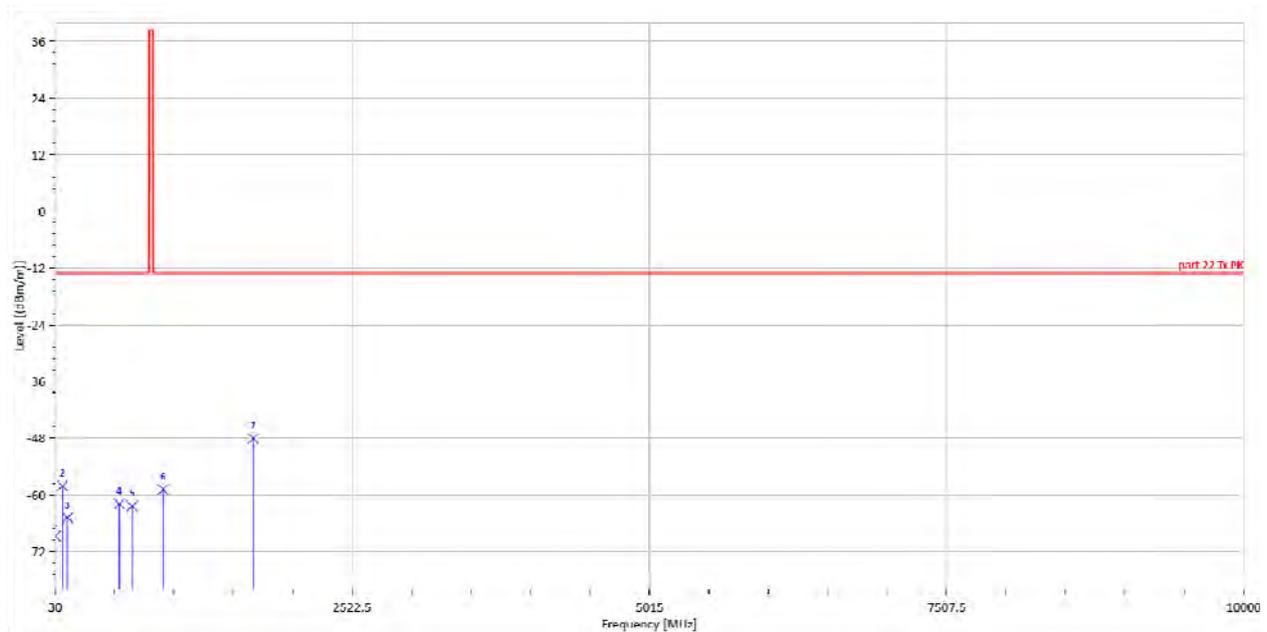
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Operation Mode : GPRS 850      Test Date : 2017/8/3  
 Fundamental Frequency : 848.8 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-68.77	-47.97	-19.97	-0.83	-13	-55.77
92.08	S	-58.15	-54.35	-2.48	-1.32	-13	-45.15
133.79	S	-64.85	-61.25	-1.99	-1.61	-13	-51.85
568.35	S	-61.96	-62.60	4.10	-3.46	-13	-48.96
676.99	S	-62.41	-63.51	4.86	-3.76	-13	-49.41
936.95	S	-58.88	-59.75	5.37	-4.49	-13	-45.88
1693.00	H	-48.09	-48.31	6.76	-6.55	-13	-35.09

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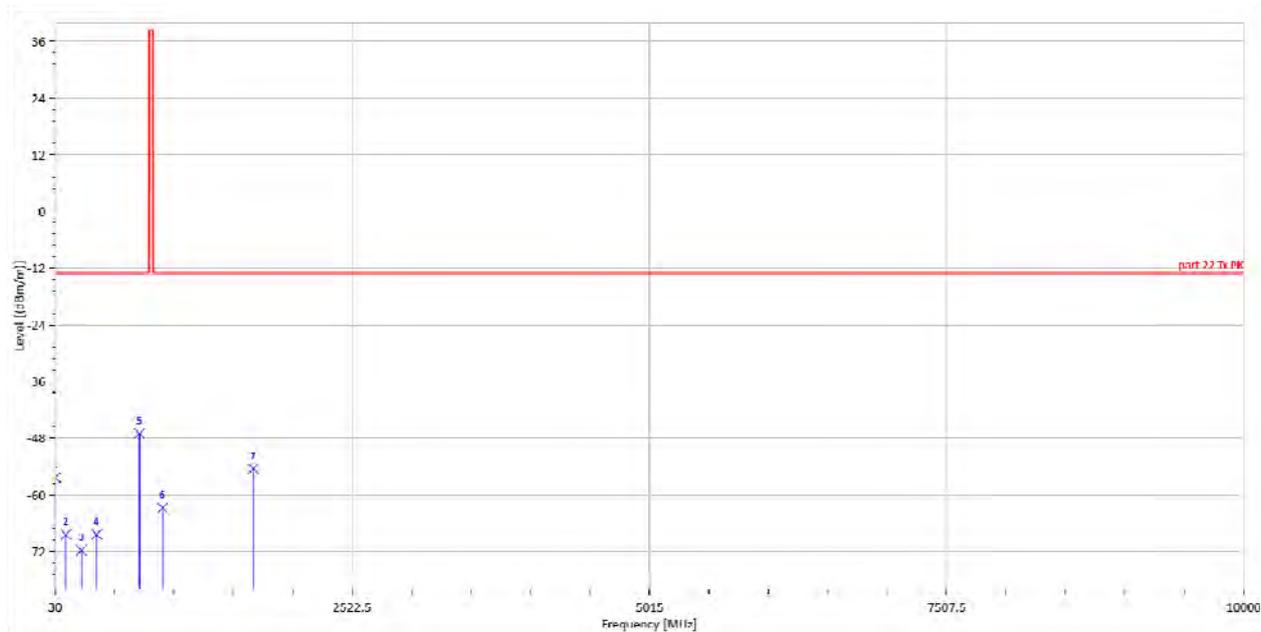
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Operation Mode : GPRS 850 Test Date : 2017/8/3  
 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.35	-34.71	-20.82	-0.83	-13	-43.35
120.21	S	-68.47	-63.72	-3.24	-1.51	-13	-55.47
252.13	S	-71.76	-72.15	2.66	-2.26	-13	-58.76
379.20	S	-68.44	-68.95	3.30	-2.79	-13	-55.44
738.10	S	-47.07	-48.29	5.14	-3.91	-13	-34.07
932.10	S	-62.77	-63.64	5.35	-4.48	-13	-49.77
1693.00	H	-54.46	-54.67	6.76	-6.55	-13	-41.46

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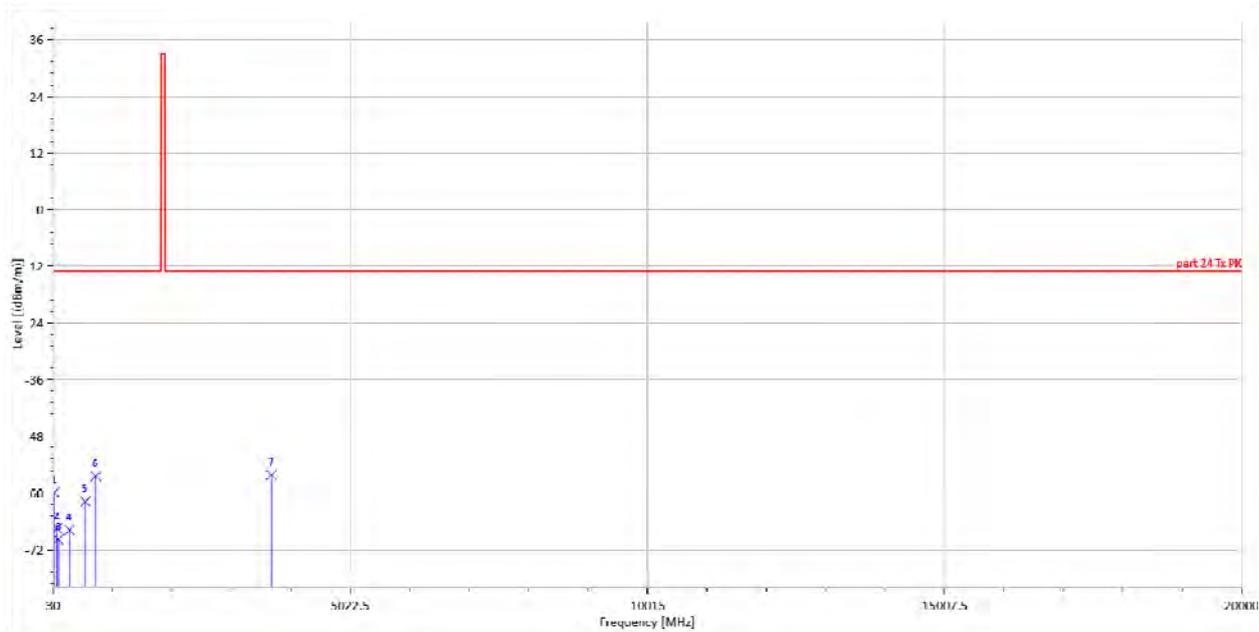
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### Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1850.2 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical

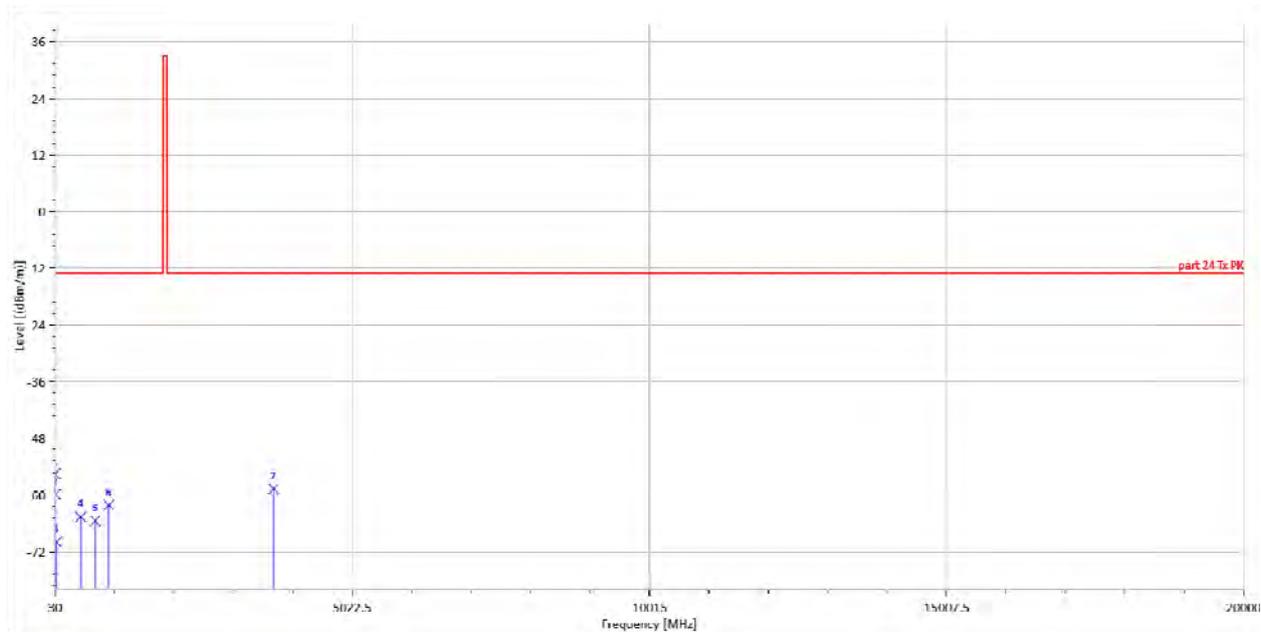


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
48.43	S	-59.94	-52.92	-6.09	-0.94	-13.01	-46.93
95.96	S	-67.47	-65.31	-0.81	-1.35	-13.01	-54.46
119.24	S	-69.81	-67.07	-1.24	-1.51	-13.01	-56.80
305.48	S	-67.83	-71.21	5.87	-2.49	-13.01	-54.82
572.23	S	-61.83	-65.08	6.72	-3.47	-13.01	-48.82
747.80	S	-56.46	-60.24	7.71	-3.93	-13.01	-43.45
3700.40	H	-56.20	-59.72	12.42	-8.90	-13.01	-43.19

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Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1850.2 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.53	-35.92	-18.78	-0.83	-13.01	-42.52
38.73	S	-59.89	-45.98	-13.06	-0.85	-13.01	-46.88
56.19	S	-69.94	-66.22	-2.71	-1.01	-13.01	-56.93
461.65	S	-64.61	-67.85	6.32	-3.08	-13.01	-51.60
707.06	S	-65.45	-69.32	7.71	-3.84	-13.01	-52.44
932.10	S	-62.18	-65.65	7.94	-4.48	-13.01	-49.17
3700.40	H	-58.67	-62.19	12.42	-8.90	-13.01	-45.66

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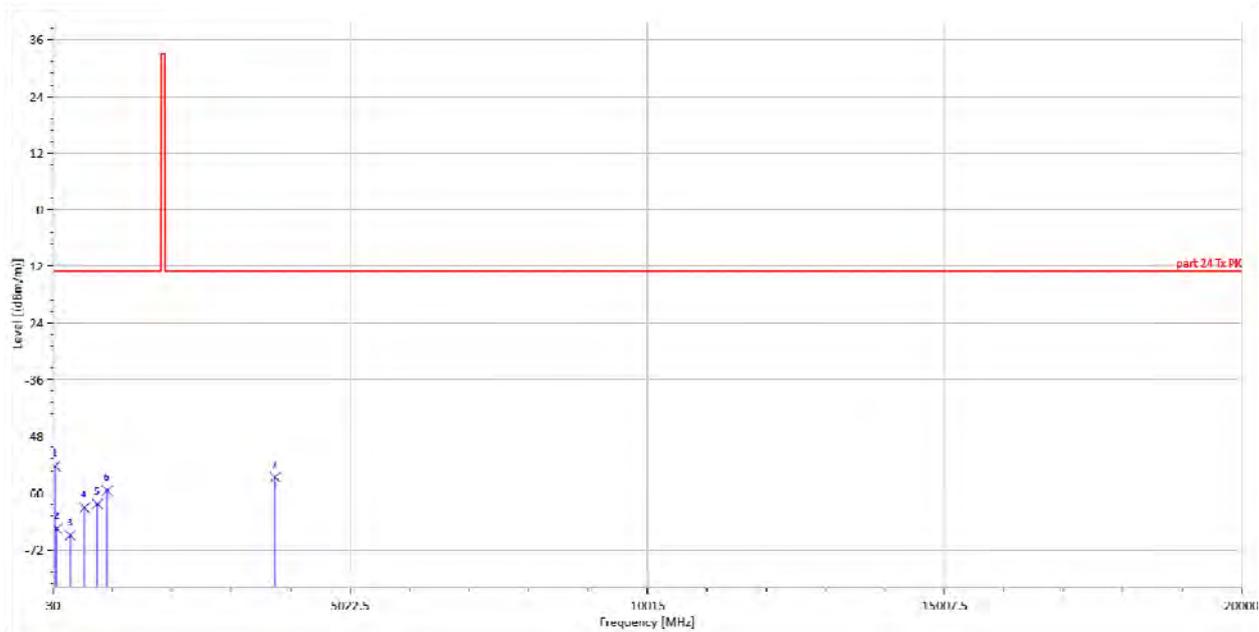
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Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1880 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
66.86	S	-54.31	-52.89	-0.31	-1.11	-13.01	-41.30
95.96	S	-67.59	-65.43	-0.81	-1.35	-13.01	-54.58
318.09	S	-68.99	-72.35	5.90	-2.55	-13.01	-55.98
559.62	S	-63.11	-66.29	6.60	-3.43	-13.01	-50.10
773.99	S	-62.33	-66.04	7.74	-4.03	-13.01	-49.32
938.89	S	-59.50	-62.95	7.95	-4.50	-13.01	-46.49
3760.00	H	-56.65	-60.16	12.46	-8.94	-13.01	-43.64

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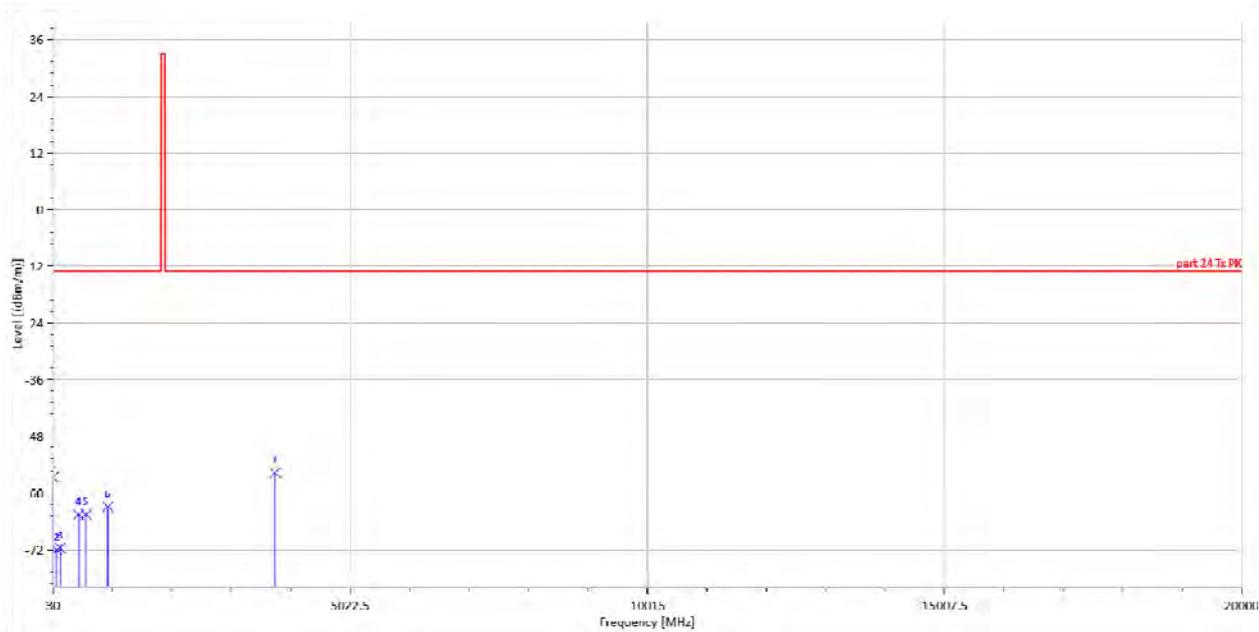
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Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1880 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.66	-37.05	-18.78	-0.83	-13.01	-43.65
91.11	S	-72.01	-70.46	-0.24	-1.31	-13.01	-59.00
153.19	S	-71.66	-72.40	2.47	-1.73	-13.01	-58.65
461.65	S	-64.54	-67.78	6.32	-3.08	-13.01	-51.53
584.84	S	-64.55	-67.88	6.83	-3.51	-13.01	-51.54
951.50	S	-62.88	-66.32	7.97	-4.52	-13.01	-49.87
3760.00	H	-55.71	-59.22	12.46	-8.94	-13.01	-42.70

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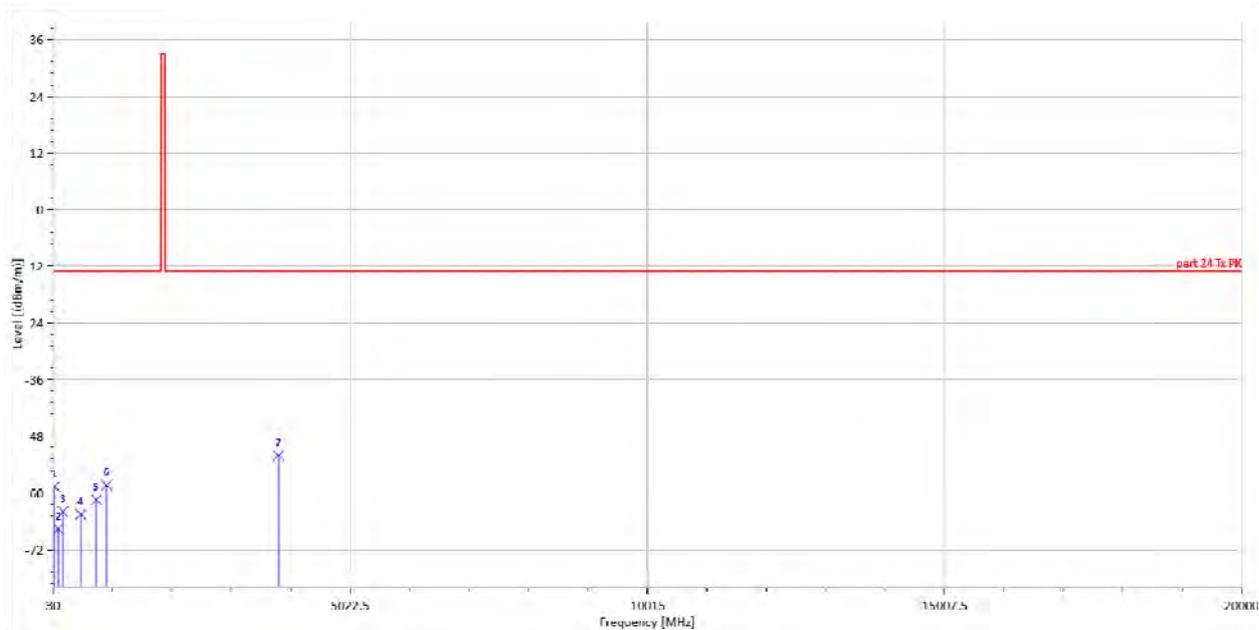
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Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1909.8 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
55.22	S	-58.63	-54.54	-3.08	-1.00	-13.01	-45.62
119.24	S	-67.65	-64.91	-1.24	-1.51	-13.01	-54.64
195.87	S	-63.98	-67.81	5.79	-1.97	-13.01	-50.97
497.54	S	-64.52	-67.78	6.48	-3.22	-13.01	-51.51
758.47	S	-61.45	-65.20	7.72	-3.97	-13.01	-48.44
931.13	S	-58.37	-61.83	7.94	-4.47	-13.01	-45.36
3819.60	H	-52.02	-55.53	12.49	-8.98	-13.01	-39.01

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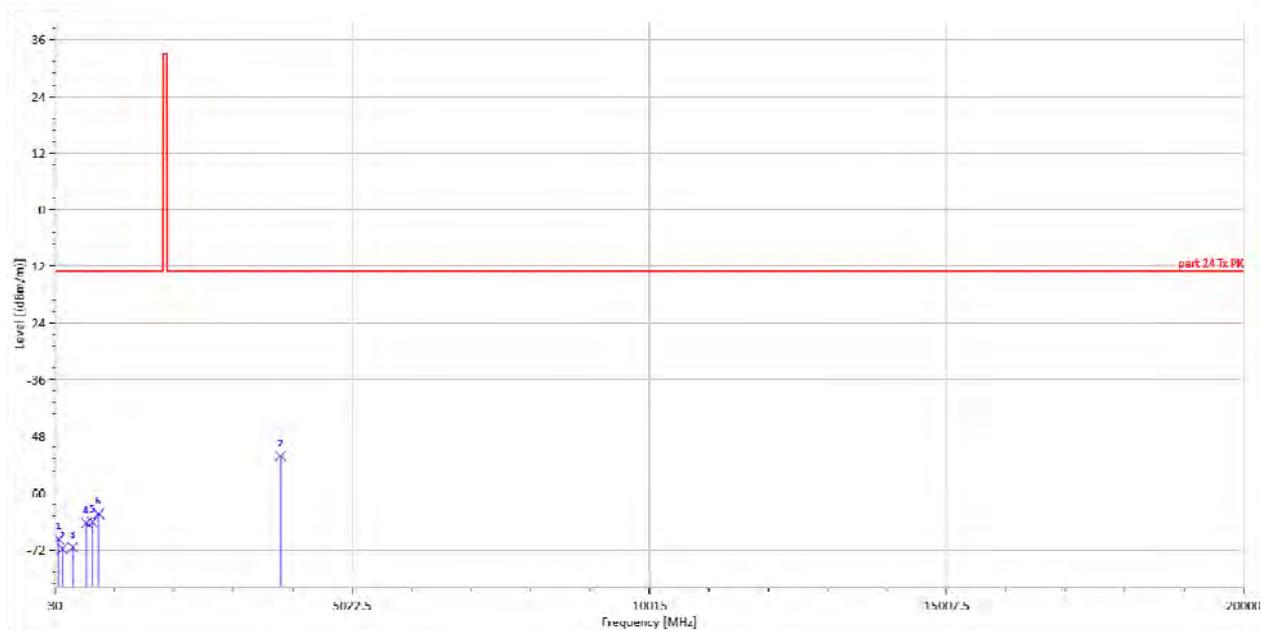
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Operation Mode : GPRS 1900      Test Date : 2017/8/3  
 Fundamental Frequency : 1909.8 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
91.11	S	-69.78	-68.24	-0.24	-1.31	-13.01	-56.77
153.19	S	-71.80	-72.54	2.47	-1.73	-13.01	-58.79
326.82	S	-71.48	-74.82	5.93	-2.59	-13.01	-58.47
558.65	S	-66.37	-69.54	6.60	-3.43	-13.01	-53.36
654.68	S	-66.12	-69.63	7.22	-3.71	-13.01	-53.11
761.38	S	-64.42	-68.17	7.73	-3.98	-13.01	-51.41
3819.60	H	-52.16	-55.67	12.49	-8.98	-13.01	-39.15

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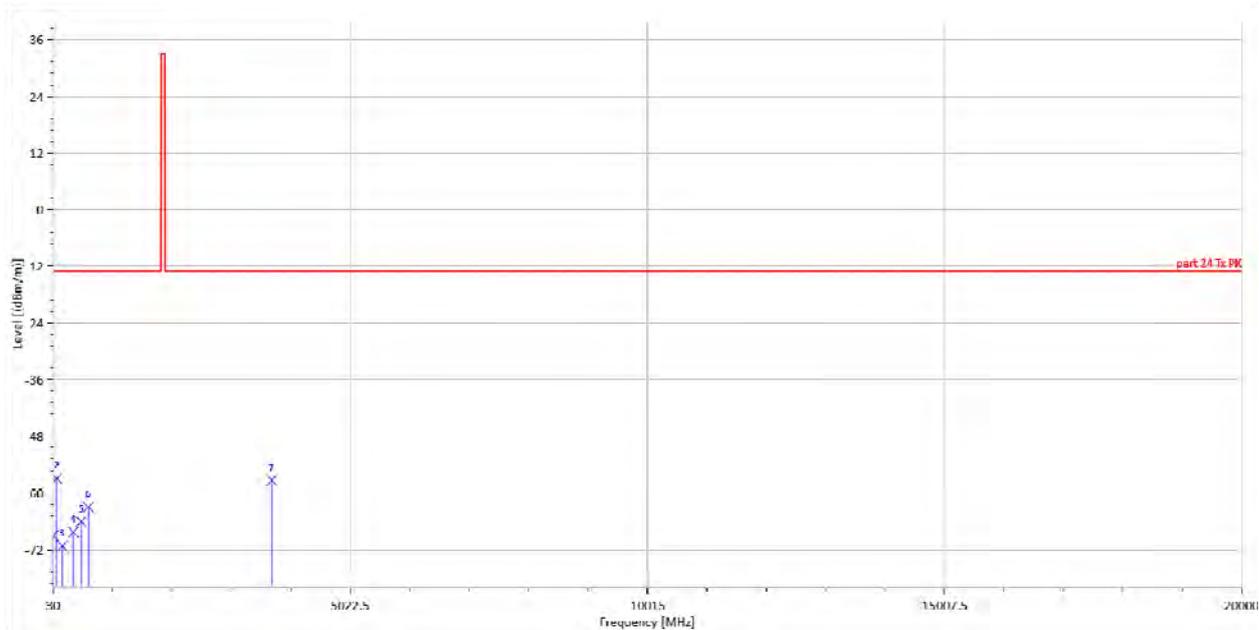
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### Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode : WCDMAB2      Test Date : 2017/8/3  
 Fundamental Frequency : 1852.4 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-69.02	-49.41	-18.78	-0.83	-13.01	-56.01
91.11	S	-56.93	-55.38	-0.24	-1.31	-13.01	-43.92
186.17	S	-71.21	-75.00	5.71	-1.92	-13.01	-58.20
370.47	S	-68.29	-71.43	5.89	-2.75	-13.01	-55.28
502.39	S	-66.03	-69.29	6.49	-3.24	-13.01	-53.02
624.61	S	-62.98	-66.41	7.07	-3.64	-13.01	-49.97
3704.80	H	-57.33	-60.85	12.42	-8.90	-13.01	-44.32

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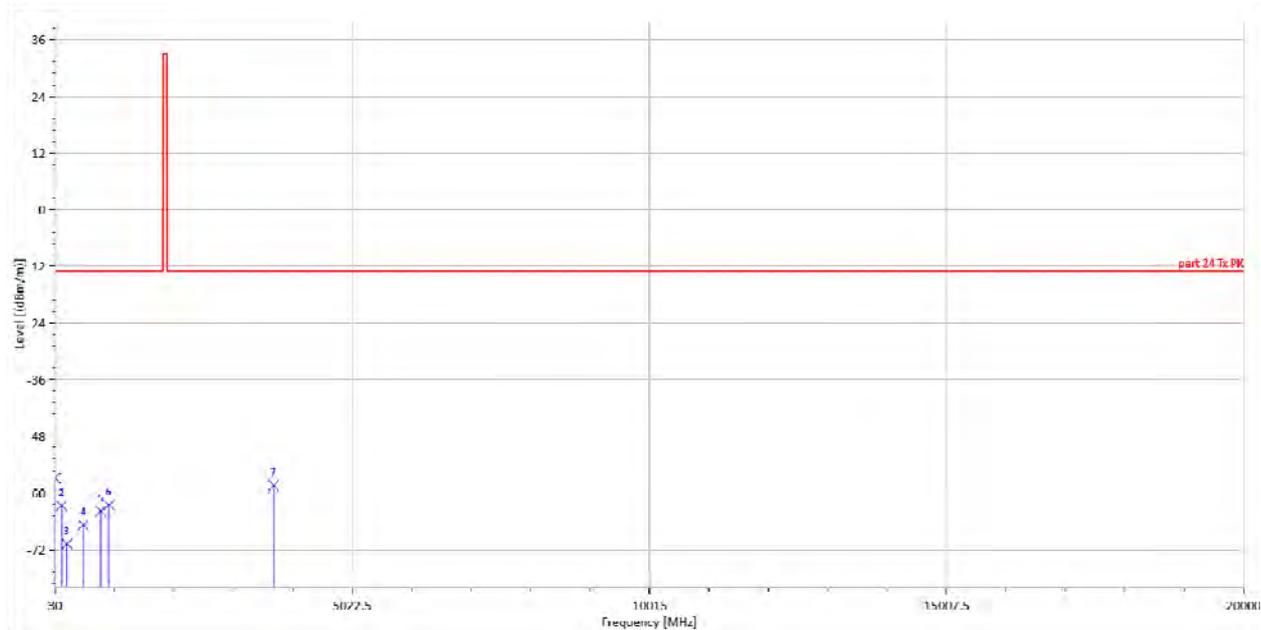
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Operation Mode : WCDMA B2      Test Date : 2017/8/3  
 Fundamental Frequency : 1852.4 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.83	-37.22	-18.78	-0.83	-13.01	-43.82
140.58	S	-62.70	-61.95	0.91	-1.65	-13.01	-49.69
228.85	S	-70.80	-74.74	6.08	-2.13	-13.01	-57.79
504.33	S	-66.76	-70.00	6.49	-3.24	-13.01	-53.75
797.27	S	-63.80	-67.46	7.77	-4.10	-13.01	-50.79
934.04	S	-62.57	-66.03	7.94	-4.48	-13.01	-49.56
3704.80	H	-58.39	-61.91	12.42	-8.90	-13.01	-45.38

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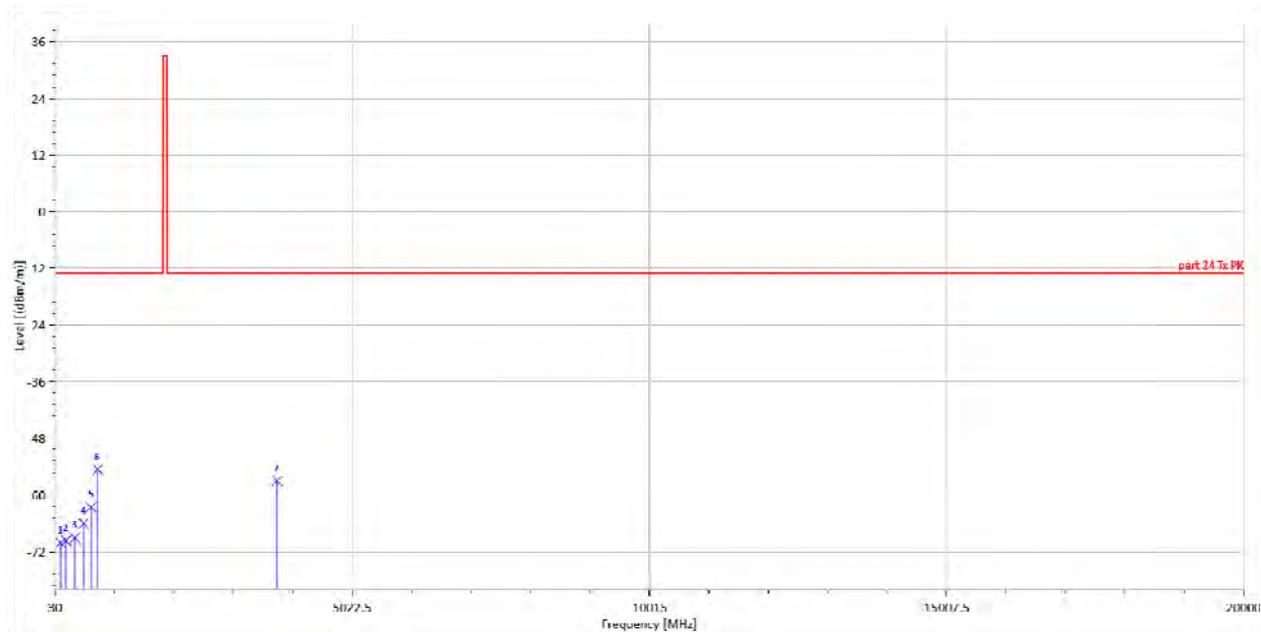
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Operation Mode : WCDMAB2      Test Date : 2017/8/3  
 Fundamental Frequency : 1880 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
122.15	S	-70.12	-67.56	-1.04	-1.53	-13.01	-57.11
213.33	S	-69.66	-73.76	6.16	-2.06	-13.01	-56.65
362.71	S	-69.06	-72.27	5.93	-2.72	-13.01	-56.05
510.15	S	-66.02	-69.25	6.50	-3.26	-13.01	-53.01
634.31	S	-62.61	-66.06	7.11	-3.66	-13.01	-49.60
746.83	S	-54.57	-58.35	7.71	-3.93	-13.01	-41.56
3760.00	H	-57.02	-60.53	12.46	-8.94	-13.01	-44.01

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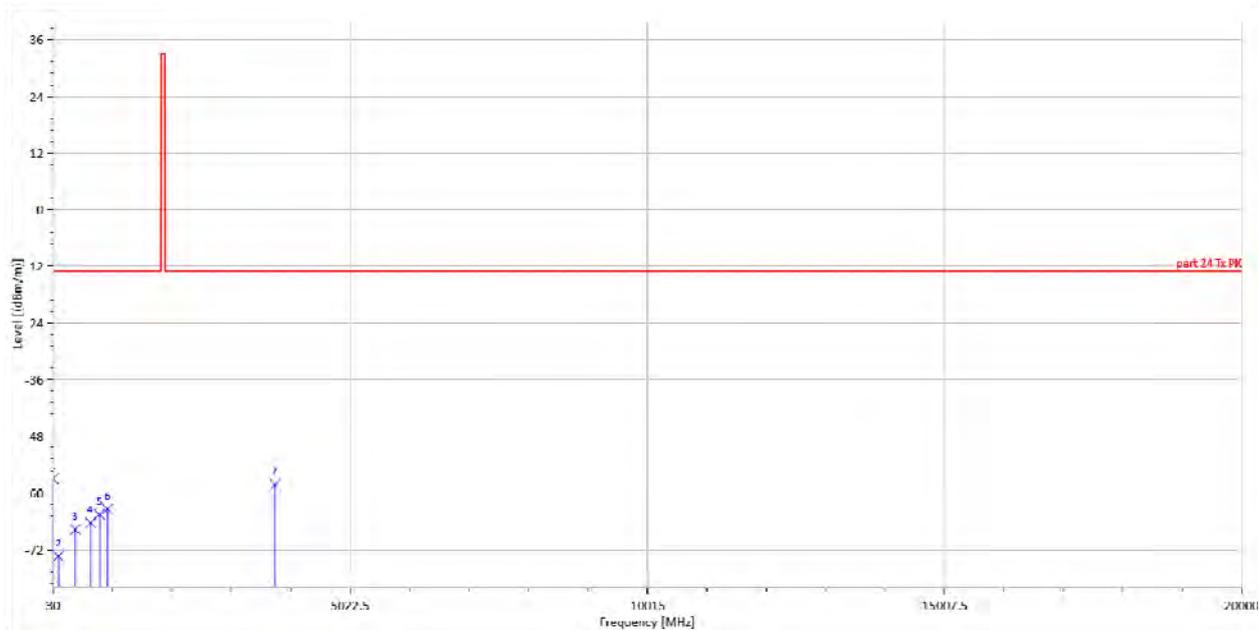
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Operation Mode : WCDMAB2 Test Date : 2017/8/3  
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.94	-37.33	-18.78	-0.83	-13.01	-43.93
121.18	S	-73.41	-70.78	-1.11	-1.52	-13.01	-60.40
404.42	S	-67.73	-70.64	5.80	-2.89	-13.01	-54.72
658.56	S	-66.30	-69.84	7.26	-3.72	-13.01	-53.29
812.79	S	-64.53	-68.17	7.78	-4.14	-13.01	-51.52
943.74	S	-63.40	-66.85	7.96	-4.51	-13.01	-50.39
3760.00	H	-58.19	-61.71	12.46	-8.94	-13.01	-45.18

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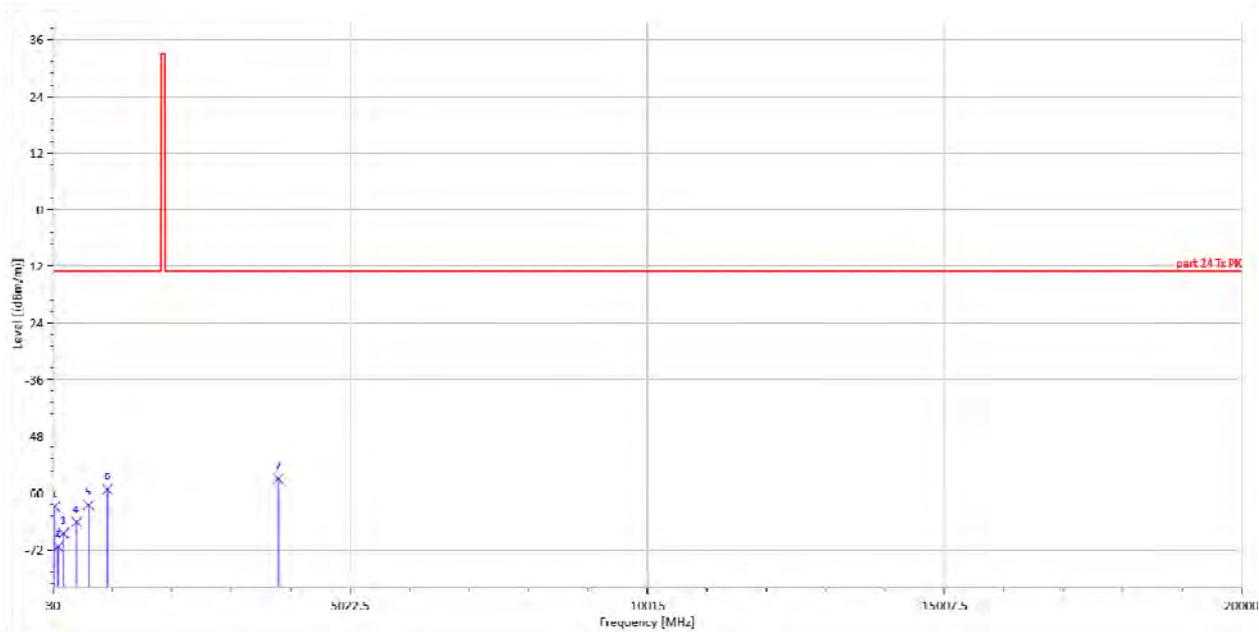
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Operation Mode : WCDMAB2 Test Date : 2017/8/3  
 Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
57.16	S	-62.91	-59.55	-2.33	-1.02	-13.01	-49.90
114.39	S	-71.36	-68.42	-1.46	-1.48	-13.01	-58.35
204.60	S	-68.56	-72.43	5.88	-2.01	-13.01	-55.55
426.73	S	-66.16	-69.22	6.03	-2.97	-13.01	-53.15
627.52	S	-62.58	-66.02	7.08	-3.65	-13.01	-49.57
943.74	S	-59.24	-62.69	7.96	-4.51	-13.01	-46.23
3815.20	H	-56.97	-60.48	12.49	-8.98	-13.01	-43.96

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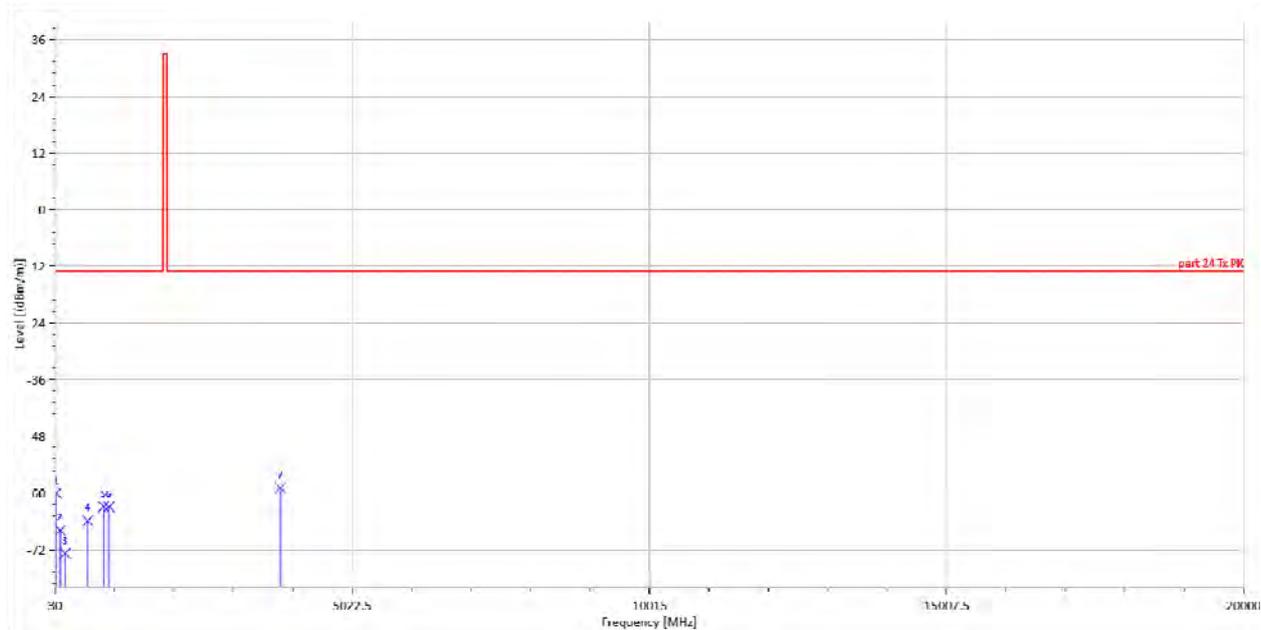
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Operation Mode : WCDMAB2 Test Date : 2017/8/3  
 Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



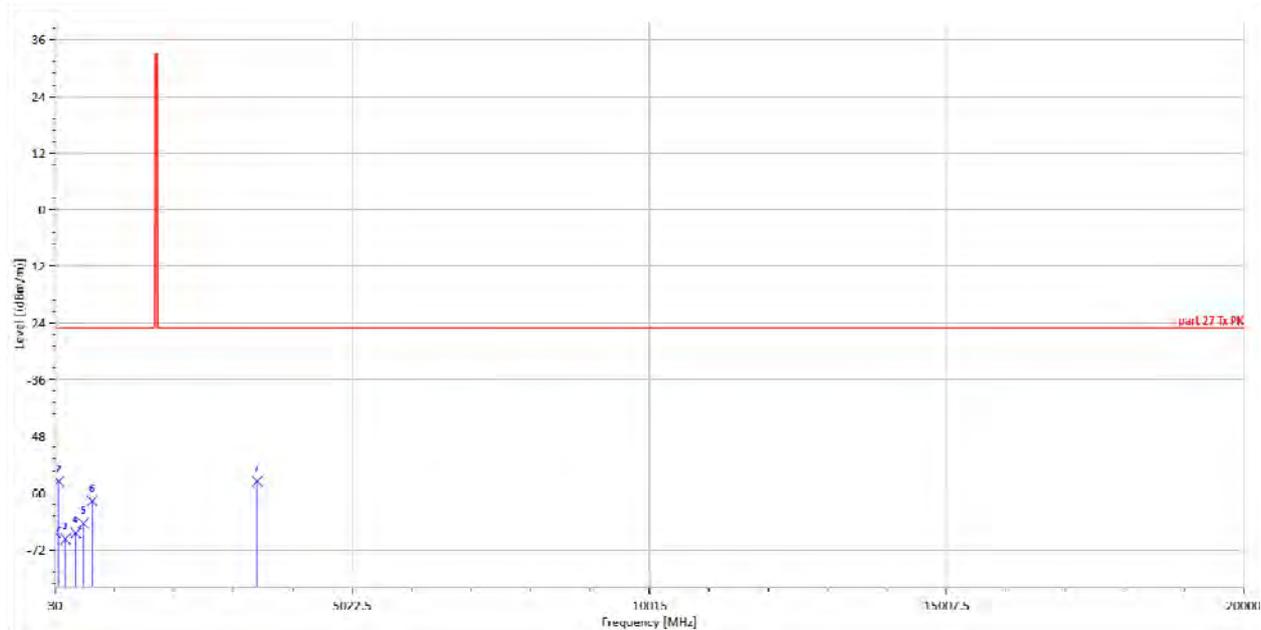
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
47.46	S	-60.07	-52.45	-6.69	-0.93	-13.01	-47.06
118.27	S	-67.91	-65.13	-1.29	-1.50	-13.01	-54.90
198.78	S	-72.76	-76.53	5.75	-1.98	-13.01	-59.75
579.02	S	-65.86	-69.15	6.78	-3.49	-13.01	-52.85
845.77	S	-62.86	-66.40	7.80	-4.26	-13.01	-49.85
935.98	S	-62.90	-66.36	7.94	-4.49	-13.01	-49.89
3815.20	H	-58.90	-62.40	12.49	-8.98	-13.01	-45.89

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### Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode : WCDMAB4      Test Date : 2017/8/3  
 Fundamental Frequency : 1712.4 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical

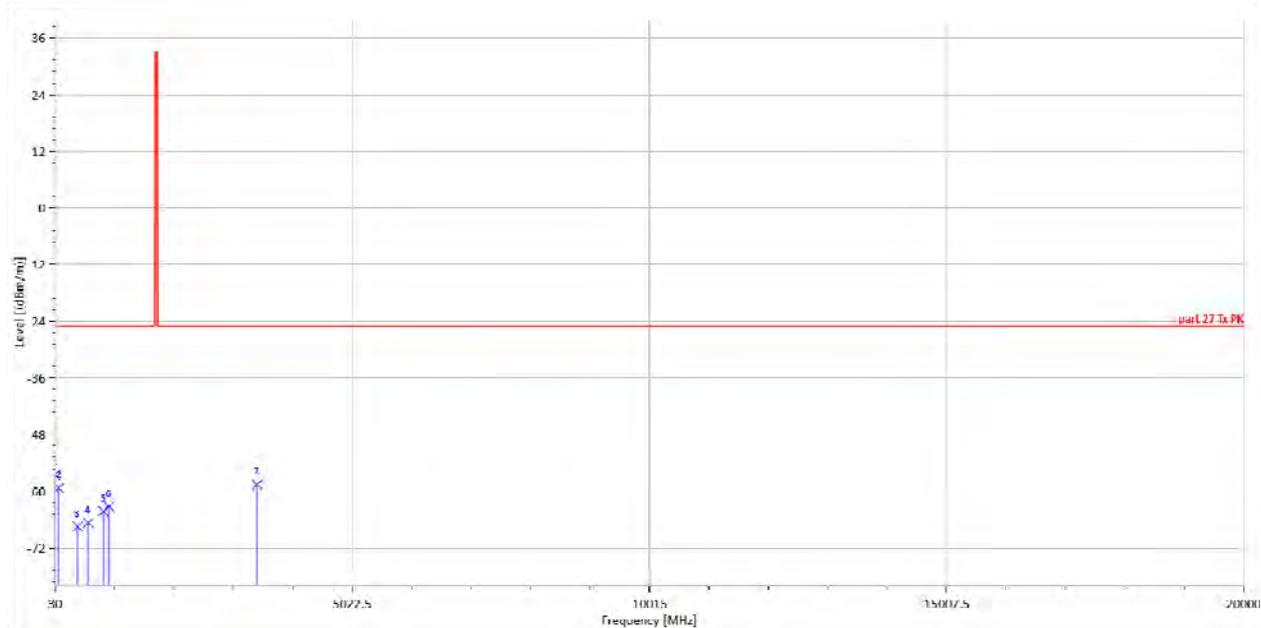


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-68.37	-49.54	-18.00	-0.83	-25	-43.37
91.11	S	-57.53	-55.98	-0.24	-1.31	-25	-32.53
202.66	S	-69.75	-73.56	5.82	-2.00	-25	-44.75
376.29	S	-68.48	-71.57	5.87	-2.78	-25	-43.48
504.33	S	-66.43	-69.68	6.49	-3.24	-25	-41.43
654.68	S	-61.74	-65.25	7.22	-3.71	-25	-36.74
3424.80	H	-57.54	-60.99	12.15	-8.70	-25	-32.54

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Operation Mode : WCDMAB4 Test Date : 2017/8/3  
 Fundamental Frequency : 1712.4 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Enzo  
 EUT Pol. : E1 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	-56.54	-36.94	-18.78	-0.83	-25	-31.54
91.11	S	-59.31	-57.77	-0.24	-1.31	-25	-34.31
410.24	S	-67.42	-70.35	5.86	-2.92	-25	-42.42
586.78	S	-66.68	-70.02	6.85	-3.52	-25	-41.68
839.95	S	-64.22	-67.77	7.79	-4.24	-25	-39.22
935.98	S	-63.23	-66.69	7.94	-4.49	-25	-38.23
3424.80	H	-58.59	-62.04	12.15	-8.70	-25	-33.59

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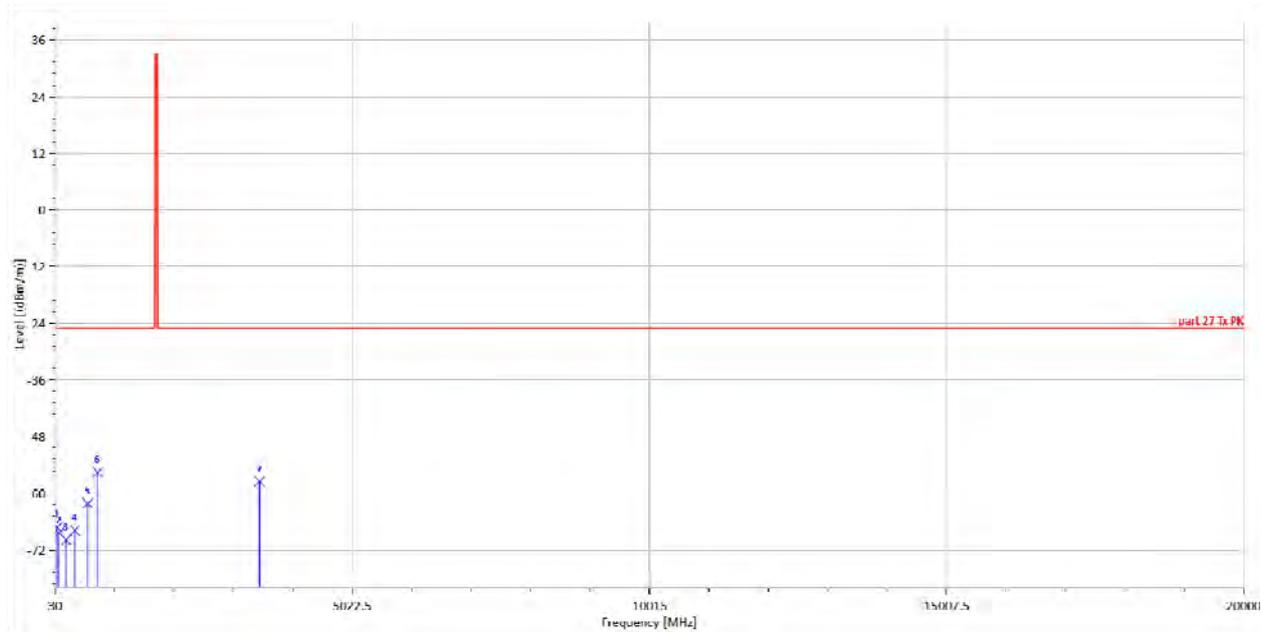
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Operation Mode : WCDMAB4 Test Date : 2017/8/3  
 Fundamental Frequency : 1732.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



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
63.95	S	-67.21	-65.43	-0.70	-1.09	-25	-42.21
95.96	S	-68.36	-66.20	-0.81	-1.35	-25	-43.36
215.27	S	-69.89	-74.04	6.21	-2.07	-25	-44.89
361.74	S	-67.87	-71.09	5.93	-2.72	-25	-42.87
578.05	S	-62.20	-65.48	6.77	-3.48	-25	-37.20
746.83	S	-55.57	-59.35	7.71	-3.93	-25	-30.57
3465.20	H	-57.50	-60.99	12.23	-8.73	-25	-32.50

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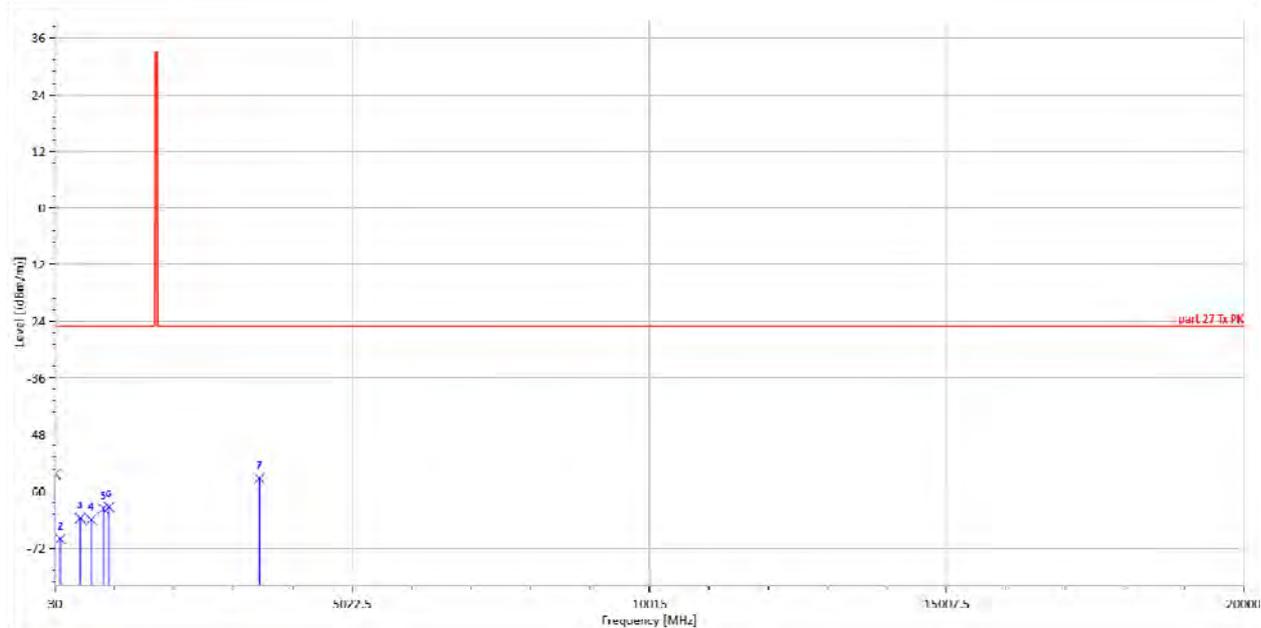
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Operation Mode : WCDMAB4 Test Date : 2017/8/3  
 Fundamental Frequency : 1732.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



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	-56.37	-36.76	-18.78	-0.83	-25	-31.37
119.24	S	-70.10	-67.35	-1.24	-1.51	-25	-45.10
454.86	S	-65.69	-68.92	6.30	-3.06	-25	-40.69
637.22	S	-65.99	-69.44	7.12	-3.66	-25	-40.99
842.86	S	-63.71	-67.25	7.79	-4.25	-25	-38.71
935.98	S	-63.34	-66.80	7.94	-4.49	-25	-38.34
3465.20	H	-57.29	-60.79	12.23	-8.73	-25	-32.29

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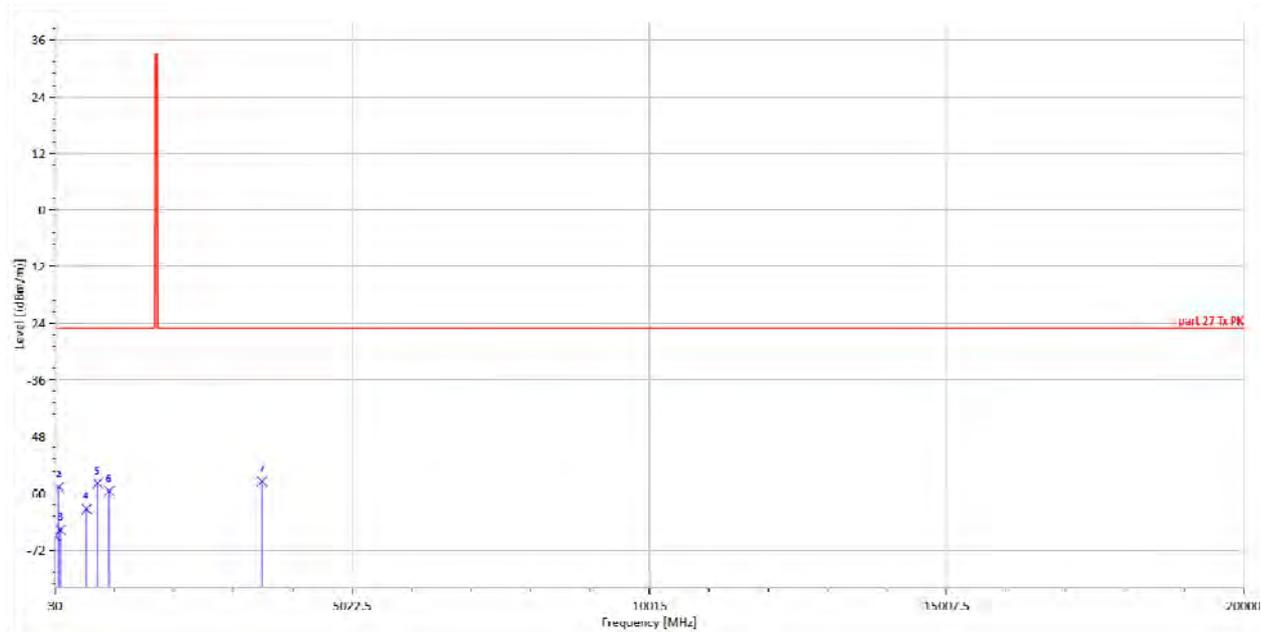
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Operation Mode : WCDMAB4 Test Date : 2017/8/3  
 Fundamental Frequency : 1752.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



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	-68.97	-49.37	-18.78	-0.83	-25	-43.97
91.11	S	-58.68	-57.13	-0.24	-1.31	-25	-33.68
120.21	S	-67.75	-65.05	-1.19	-1.51	-25	-42.75
557.68	S	-63.32	-66.48	6.59	-3.43	-25	-38.32
746.83	S	-57.87	-61.65	7.71	-3.93	-25	-32.87
938.89	S	-59.55	-63.01	7.95	-4.50	-25	-34.55
3505.20	H	-57.51	-61.05	12.30	-8.76	-25	-32.51

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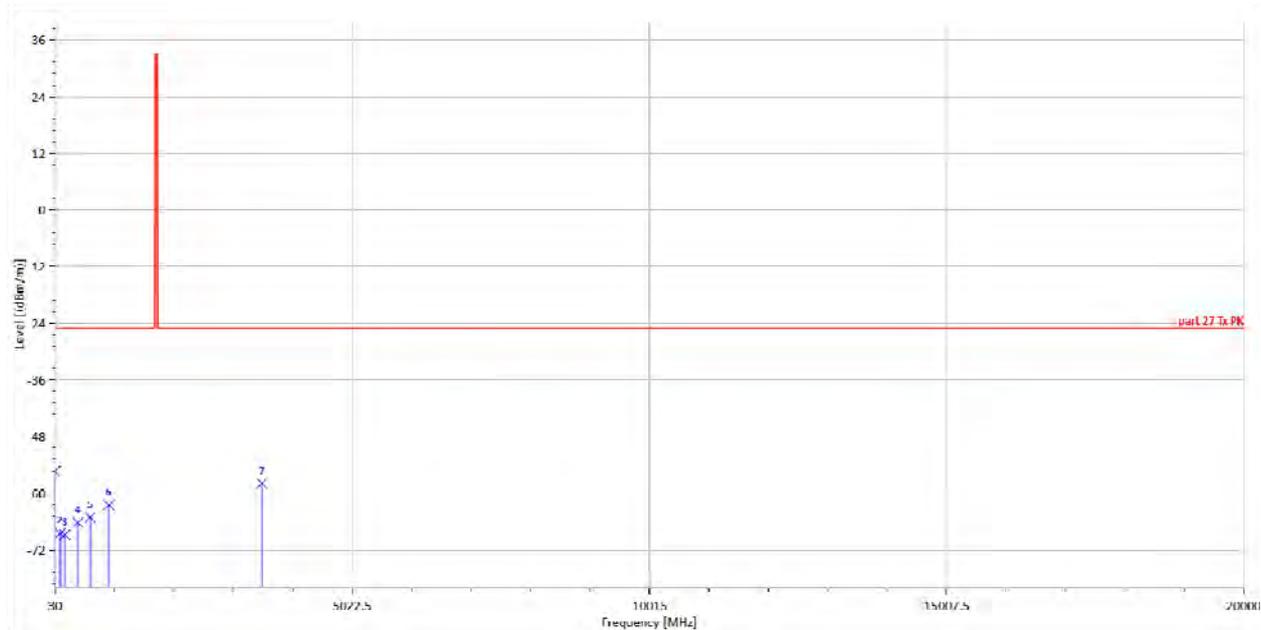
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Operation Mode : WCDMAB4 Test Date : 2017/8/3  
 Fundamental Frequency : 1752.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.97	S	-55.36	-34.97	-19.56	-0.82	-25	-30.36
118.27	S	-68.51	-65.73	-1.29	-1.50	-25	-43.51
193.93	S	-68.78	-72.64	5.82	-1.96	-25	-43.78
413.15	S	-66.21	-69.17	5.89	-2.93	-25	-41.21
622.67	S	-65.10	-68.52	7.06	-3.64	-25	-40.10
935.01	S	-62.53	-65.99	7.94	-4.49	-25	-37.53
3505.20	H	-57.90	-61.44	12.30	-8.76	-25	-32.90

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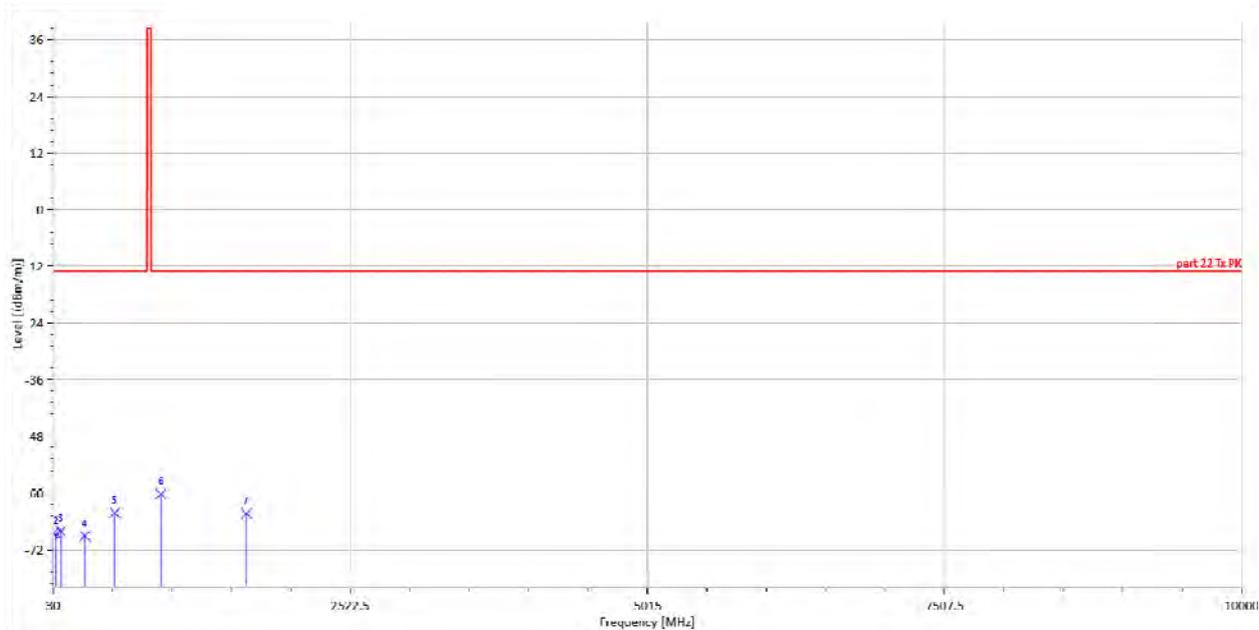
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### Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode : WCDMAB5      Test Date : 2017/8/3  
 Fundamental Frequency : 826.4 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



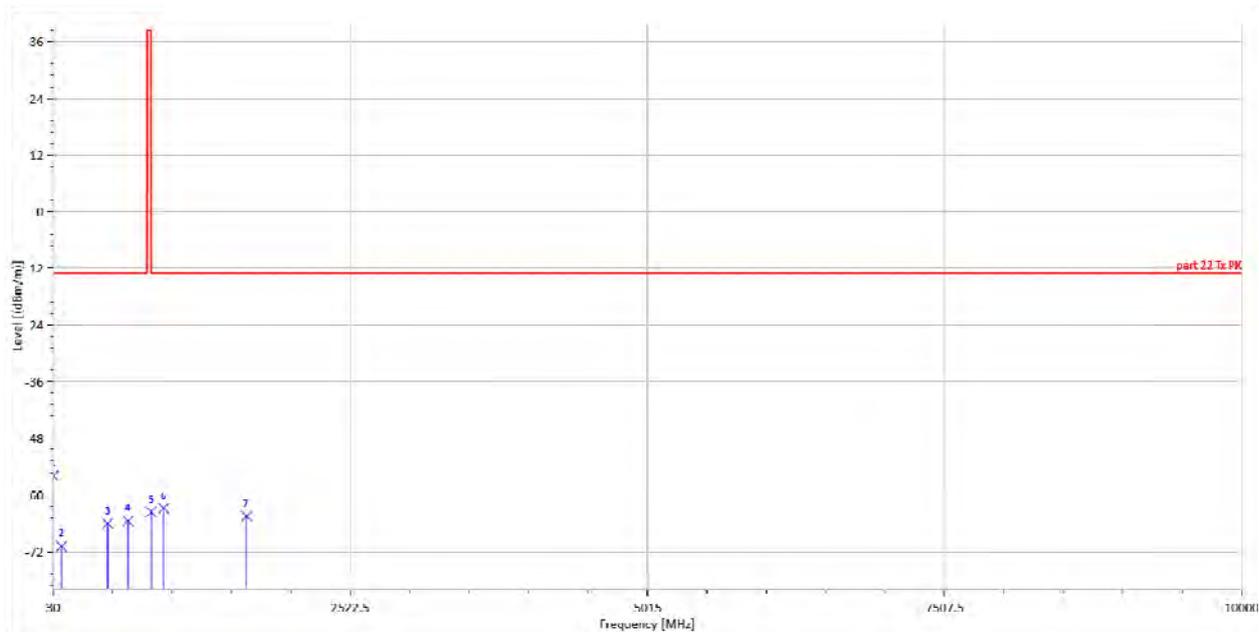
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-68.56	-46.07	-21.66	-0.82	-13	-55.56
54.25	S	-68.63	-62.17	-5.47	-0.99	-13	-55.63
95.96	S	-68.14	-63.89	-2.90	-1.35	-13	-55.14
296.75	S	-69.07	-70.10	3.47	-2.45	-13	-56.07
547.01	S	-64.23	-64.80	3.97	-3.40	-13	-51.23
935.01	S	-60.23	-61.10	5.36	-4.49	-13	-47.23
1652.80	H	-64.38	-64.51	6.59	-6.46	-13	-51.38

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Operation Mode : WCDMA B5      Test Date : 2017/8/3  
 Fundamental Frequency : 826.4 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.96	-34.32	-20.82	-0.83	-13	-42.96
100.81	S	-70.88	-66.13	-3.36	-1.39	-13	-57.88
487.84	S	-66.03	-66.79	3.94	-3.18	-13	-53.03
660.50	S	-65.52	-66.51	4.71	-3.72	-13	-52.52
854.50	S	-63.59	-64.37	5.07	-4.29	-13	-50.59
957.32	S	-62.82	-63.71	5.43	-4.54	-13	-49.82
1652.80	H	-64.48	-64.61	6.59	-6.46	-13	-51.48

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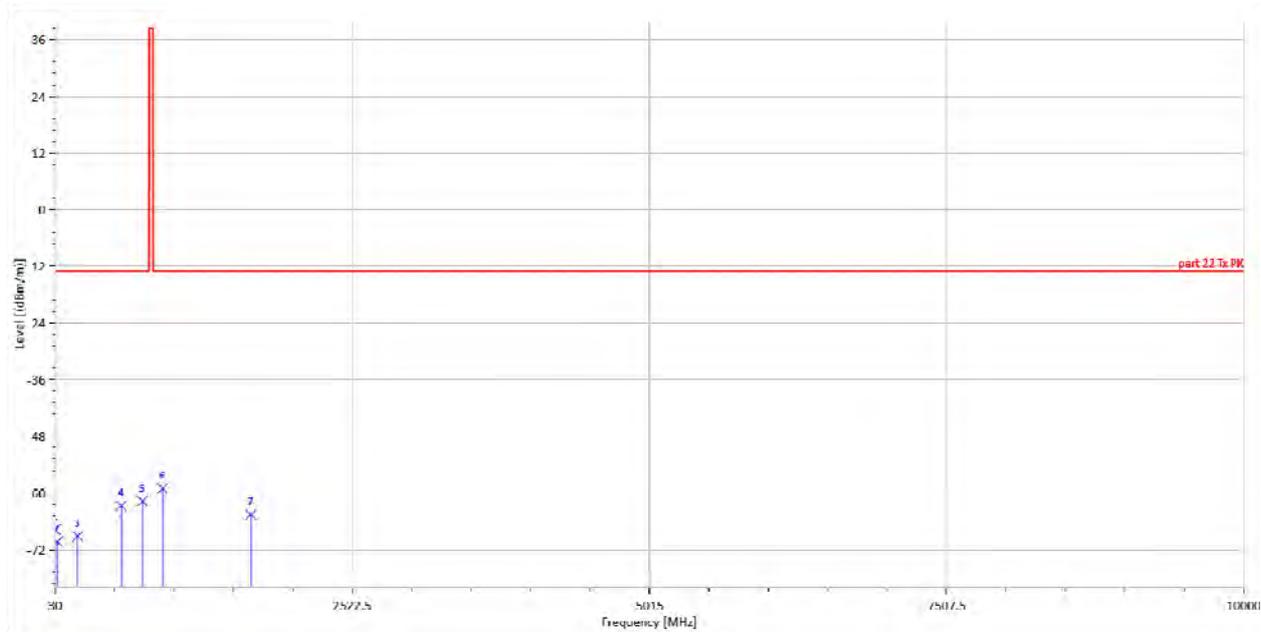
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Operation Mode : WCDMAB5      Test Date : 2017/8/3  
 Fundamental Frequency : 836.6 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-67.70	-46.06	-20.82	-0.83	-13	-54.70
50.37	S	-70.31	-62.34	-7.01	-0.95	-13	-57.31
219.15	S	-69.11	-71.03	4.01	-2.09	-13	-56.11
584.84	S	-62.70	-63.41	4.21	-3.51	-13	-49.70
763.32	S	-61.73	-62.92	5.18	-3.98	-13	-48.73
932.10	S	-59.03	-59.90	5.35	-4.48	-13	-46.03
1673.20	H	-64.56	-64.74	6.68	-6.50	-13	-51.56

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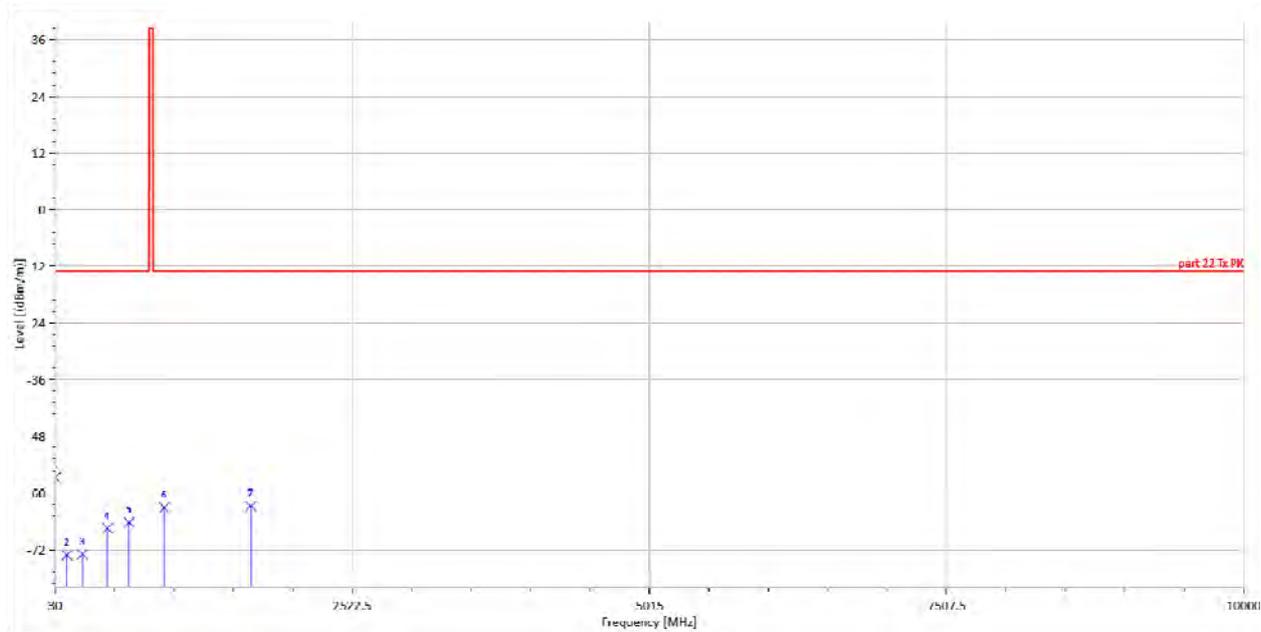
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Operation Mode : WCDMAB5 Test Date : 2017/8/3  
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.70	-35.05	-20.82	-0.83	-13	-43.70
127.97	S	-73.14	-68.95	-2.62	-1.57	-13	-60.14
258.92	S	-73.00	-72.85	2.14	-2.29	-13	-60.00
469.41	S	-67.45	-68.12	3.78	-3.11	-13	-54.45
650.80	S	-66.23	-67.15	4.63	-3.70	-13	-53.23
945.68	S	-63.12	-64.01	5.40	-4.51	-13	-50.12
1673.20	H	-62.77	-62.95	6.68	-6.50	-13	-49.77

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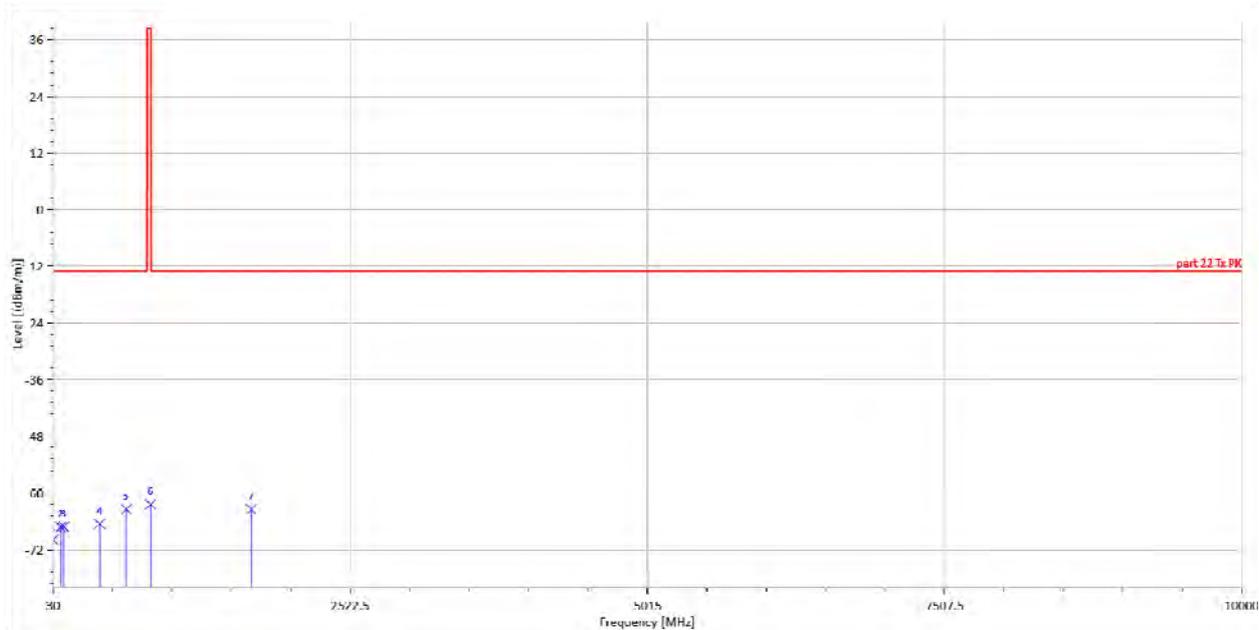
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Operation Mode : WCDMA B5      Test Date : 2017/8/3  
 Fundamental Frequency : 846.6 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-69.94	-49.14	-19.97	-0.83	-13	-56.94
95.96	S	-67.16	-62.91	-2.90	-1.35	-13	-54.16
120.21	S	-67.10	-62.35	-3.24	-1.51	-13	-54.10
420.91	S	-66.52	-66.94	3.38	-2.95	-13	-53.52
645.95	S	-63.42	-64.32	4.60	-3.69	-13	-50.42
849.65	S	-62.43	-63.21	5.05	-4.27	-13	-99.90
1693.20	H	-63.46	-63.68	6.76	-6.55	-13	-50.46

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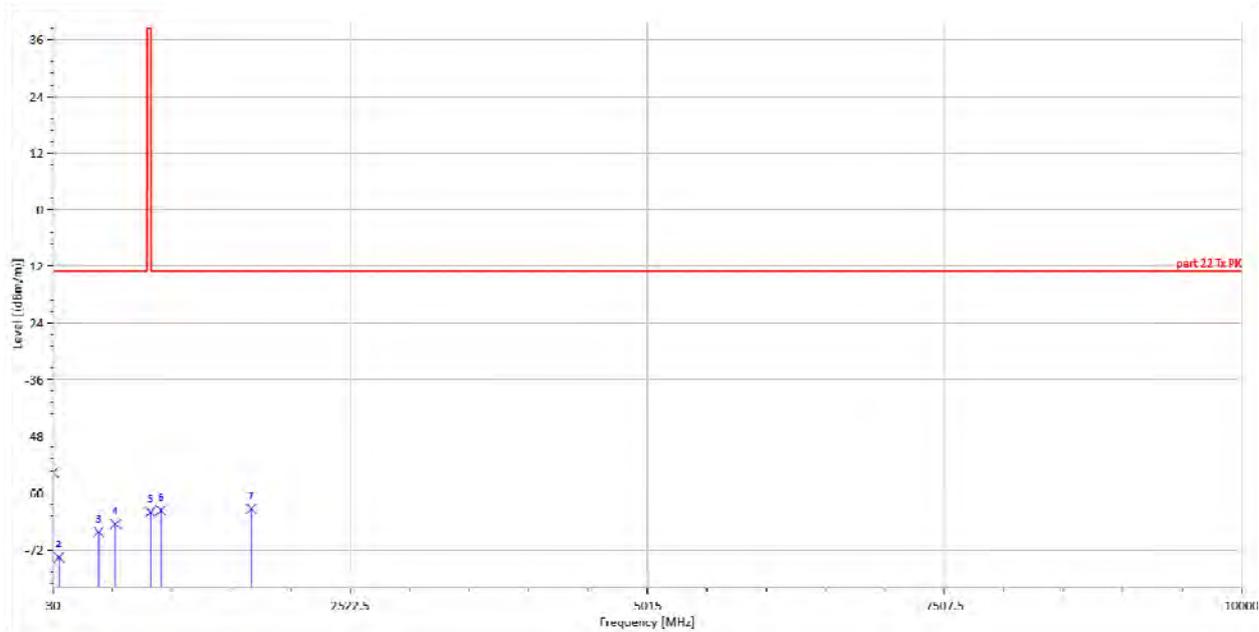
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Operation Mode : WCDMAB5 Test Date : 2017/8/3  
 Fundamental Frequency : 846.6 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.67	-34.03	-20.82	-0.83	-13	-42.67
80.44	S	-73.62	-70.69	-1.71	-1.22	-13	-60.62
413.15	S	-68.24	-68.62	3.31	-2.93	-13	-55.24
552.83	S	-66.59	-67.16	3.99	-3.42	-13	-53.59
848.68	S	-64.06	-64.85	5.05	-4.27	-13	-51.07
935.01	S	-63.68	-64.55	5.36	-4.49	-13	-50.68
1693.20	H	-63.35	-63.56	6.76	-6.55	-13	-50.35

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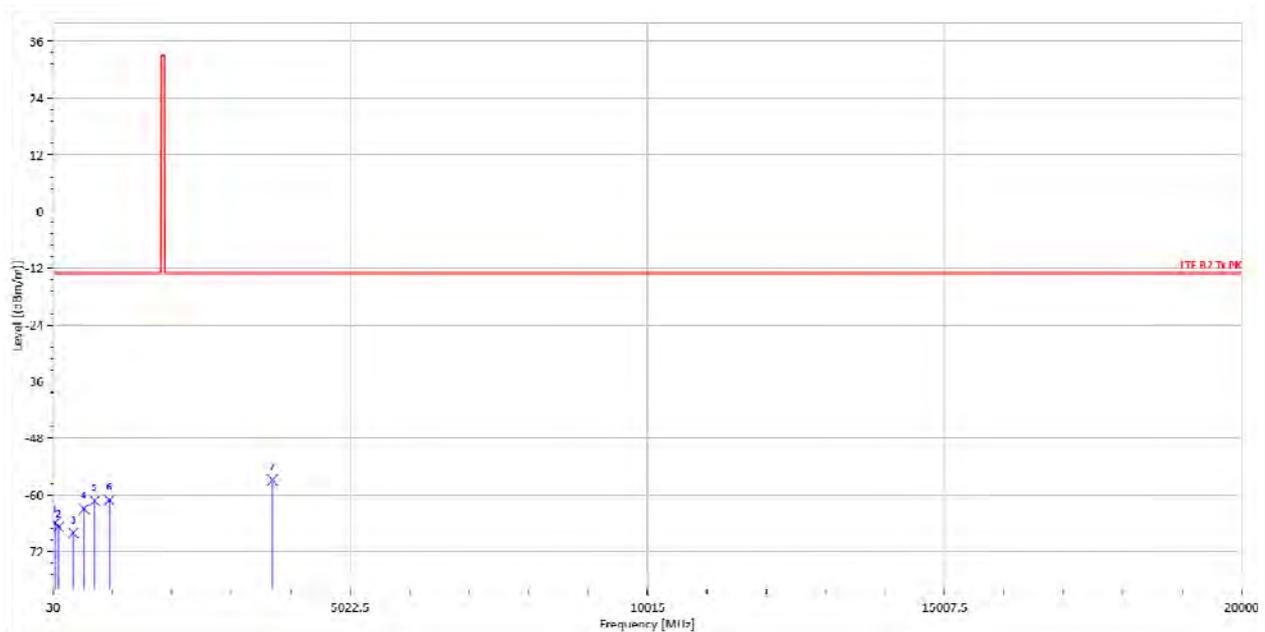
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### Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1857.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
70.74	S	-65.87	-64.87	0.14	-1.15	-13	-52.87
120.21	S	-66.81	-64.11	-1.19	-1.51	-13	-53.81
369.50	S	-68.10	-71.25	5.90	-2.75	-13	-55.10
549.92	S	-62.98	-66.09	6.52	-3.41	-13	-49.98
729.37	S	-61.23	-65.04	7.71	-3.90	-13	-48.23
976.72	S	-61.12	-64.57	8.04	-4.59	-13	-48.12
3715.00	H	-56.87	-60.39	12.43	-8.91	-13	-43.87

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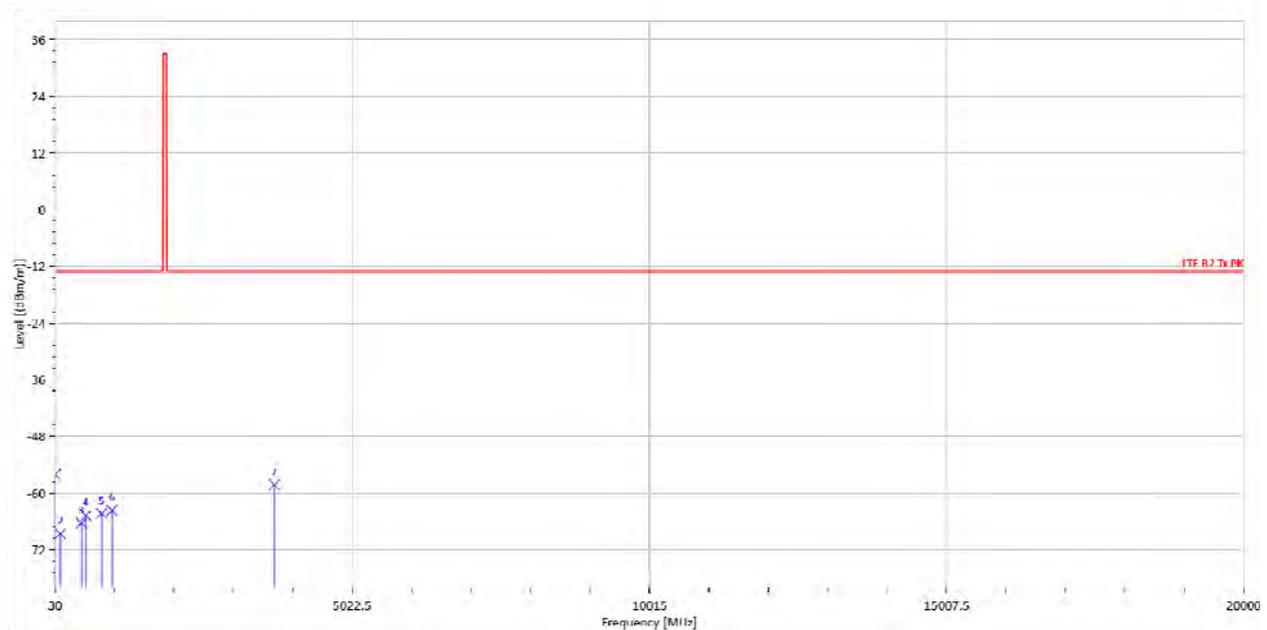
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Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1857.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.14	-36.53	-18.78	-0.83	-13	-43.14
119.24	S	-68.65	-65.90	-1.24	-1.51	-13	-55.65
474.26	S	-66.38	-69.64	6.38	-3.13	-13	-53.38
547.98	S	-64.80	-67.91	6.52	-3.40	-13	-51.80
813.76	S	-64.34	-67.98	7.78	-4.14	-13	-51.34
987.39	S	-63.70	-67.15	8.07	-4.62	-13	-50.70
3715.00	H	-58.24	-61.76	12.43	-8.91	-13	-45.24

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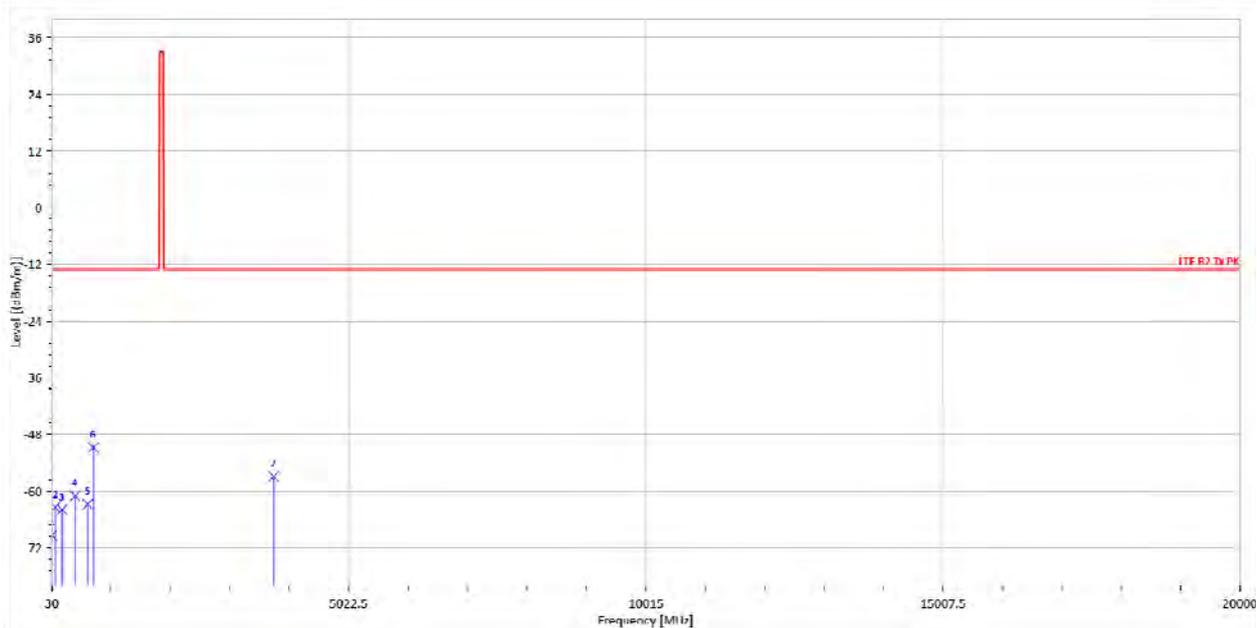
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Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-69.36	-50.53	-18.00	-0.83	-13	-56.36
89.17	S	-63.43	-62.08	-0.06	-1.29	-13	-50.43
205.57	S	-63.93	-67.82	5.91	-2.02	-13	-50.93
423.82	S	-60.99	-64.03	6.00	-2.96	-13	-47.99
636.25	S	-62.80	-66.26	7.11	-3.66	-13	-49.80
730.34	S	-50.78	-54.59	7.71	-3.90	-13	-37.78
3760.00	H	-56.90	-60.41	12.46	-8.94	-13	-43.90

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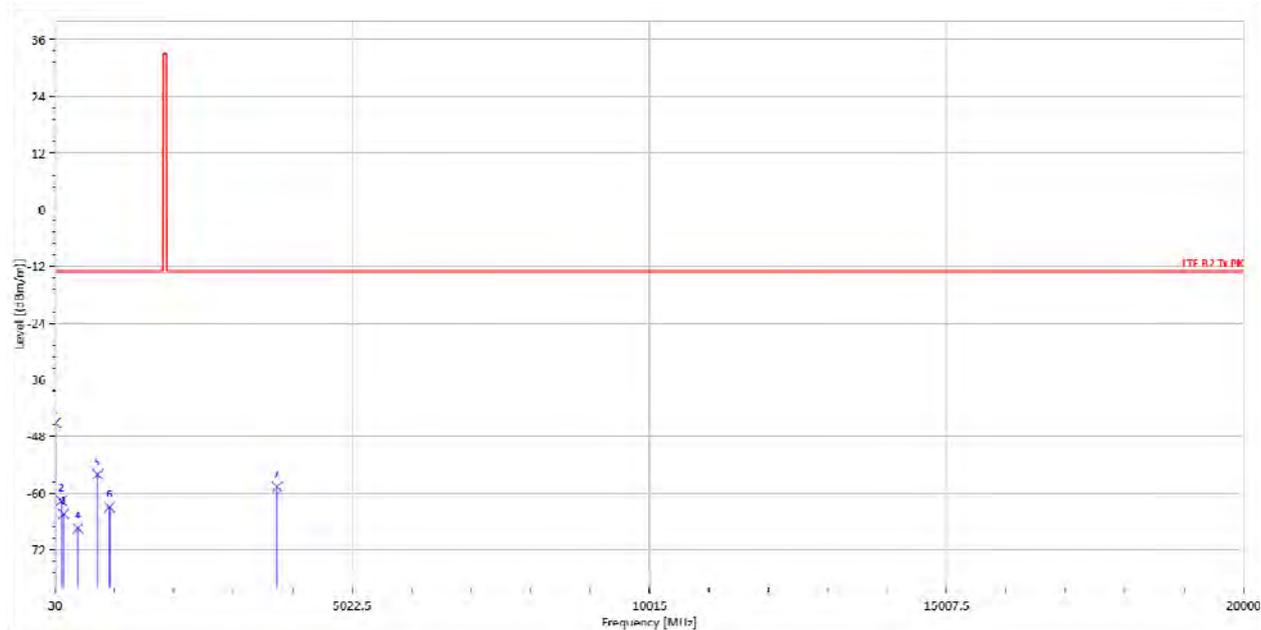
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Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
39.70	S	-45.13	-32.06	-12.21	-0.86	-13	-32.13
137.67	S	-61.65	-60.56	0.54	-1.63	-13	-48.65
175.50	S	-64.42	-67.49	4.92	-1.86	-13	-51.42
415.09	S	-67.51	-70.48	5.91	-2.94	-13	-54.51
746.83	S	-56.10	-59.88	7.71	-3.93	-13	-43.10
944.71	S	-62.98	-66.43	7.96	-4.51	-13	-49.98
3760.00	H	-58.68	-62.19	12.46	-8.94	-13	-45.68

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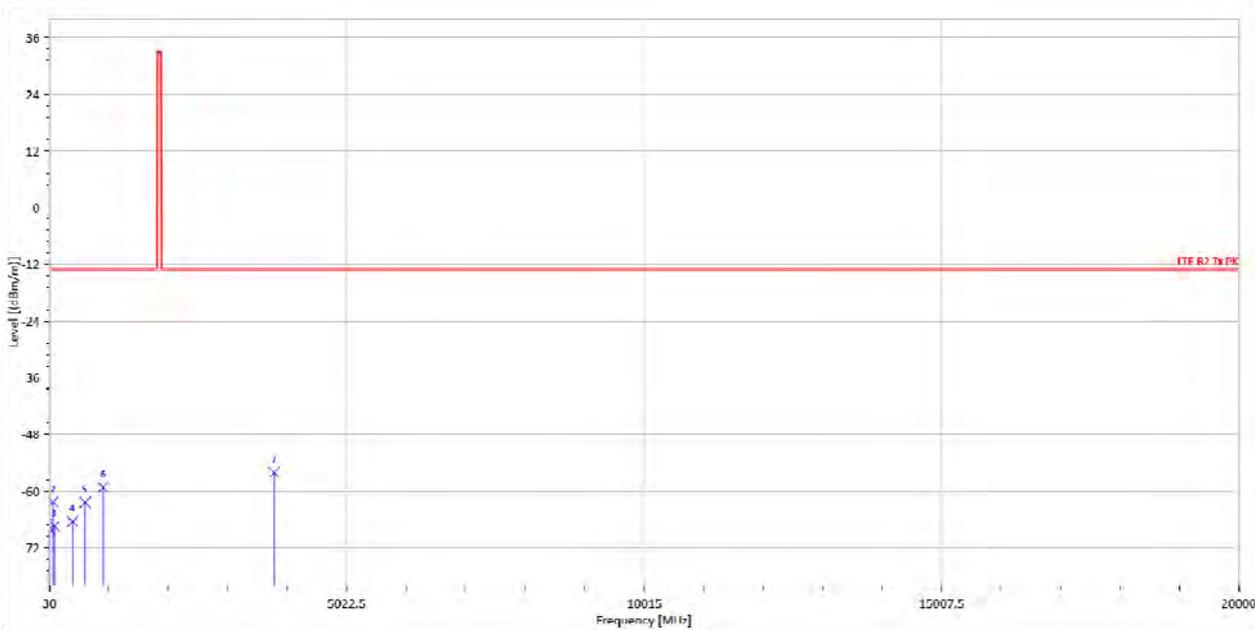
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Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1902.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-68.05	-47.66	-19.56	-0.82	-13	-55.05
89.17	S	-62.30	-60.94	-0.06	-1.29	-13	-49.30
117.30	S	-67.49	-64.67	-1.33	-1.49	-13	-54.49
420.91	S	-66.48	-69.50	5.97	-2.95	-13	-53.48
629.46	S	-62.41	-65.85	7.09	-3.65	-13	-49.41
931.13	S	-59.27	-62.73	7.94	-4.47	-13	-46.27
3805.00	H	-56.13	-59.64	12.48	-8.97	-13	-43.13

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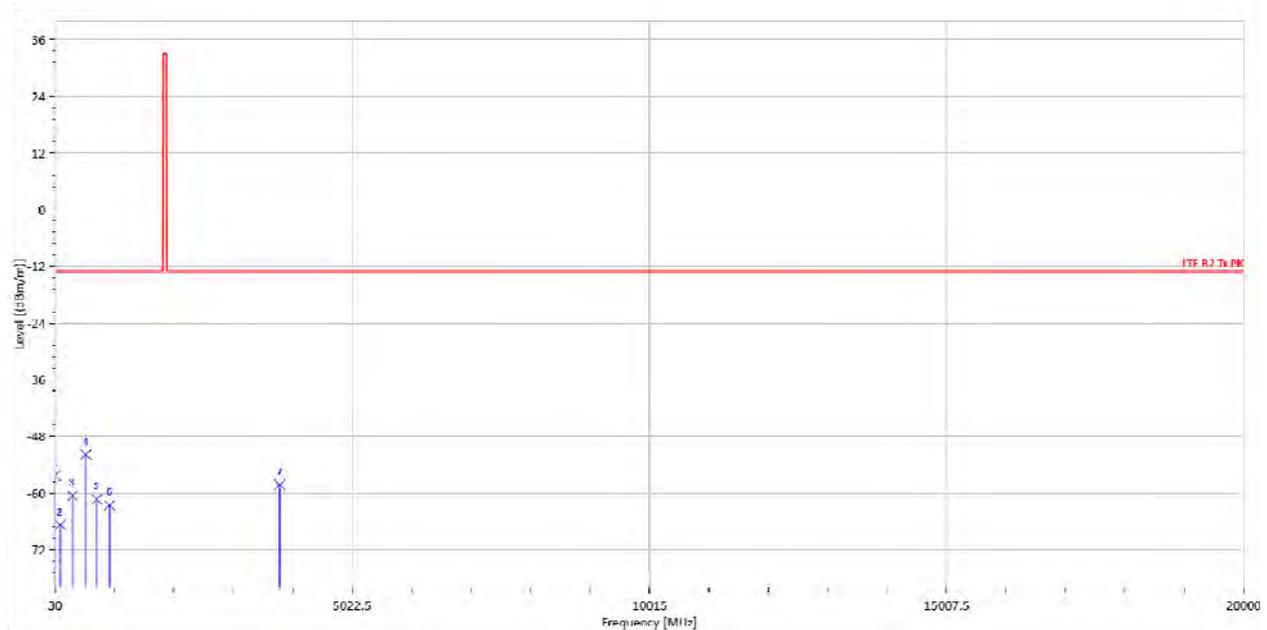
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Operation Mode :	LTEB2 15M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1902.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.24	-36.64	-18.78	-0.83	-13	-43.24
118.27	S	-66.75	-63.96	-1.29	-1.50	-13	-53.75
322.94	S	-60.58	-63.93	5.92	-2.57	-13	-47.58
545.07	S	-51.86	-54.98	6.51	-3.40	-13	-38.86
730.34	S	-61.31	-65.12	7.71	-3.90	-13	-48.31
944.71	S	-62.59	-66.04	7.96	-4.51	-13	-49.59
3805.00	H	-58.27	-61.78	12.48	-8.97	-13	-45.27

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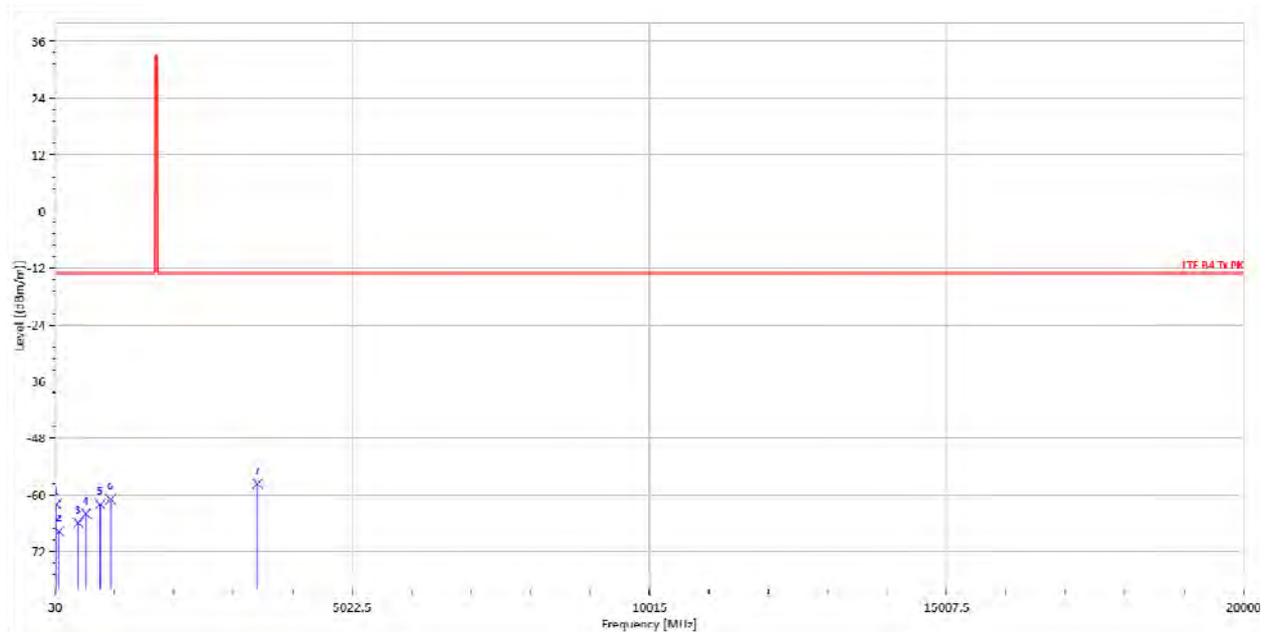
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### Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1715 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
50.37	S	-62.03	-56.10	-4.97	-0.95	-13	-49.03
95.96	S	-67.77	-65.61	-0.81	-1.35	-13	-54.77
419.94	S	-65.97	-68.98	5.96	-2.95	-13	-52.97
547.98	S	-63.99	-67.10	6.52	-3.40	-13	-50.99
788.54	S	-62.04	-65.71	7.76	-4.08	-13	-49.04
963.14	S	-60.93	-64.37	8.00	-4.56	-13	-47.93
3430.00	H	-57.67	-61.13	12.16	-8.70	-13	-44.67

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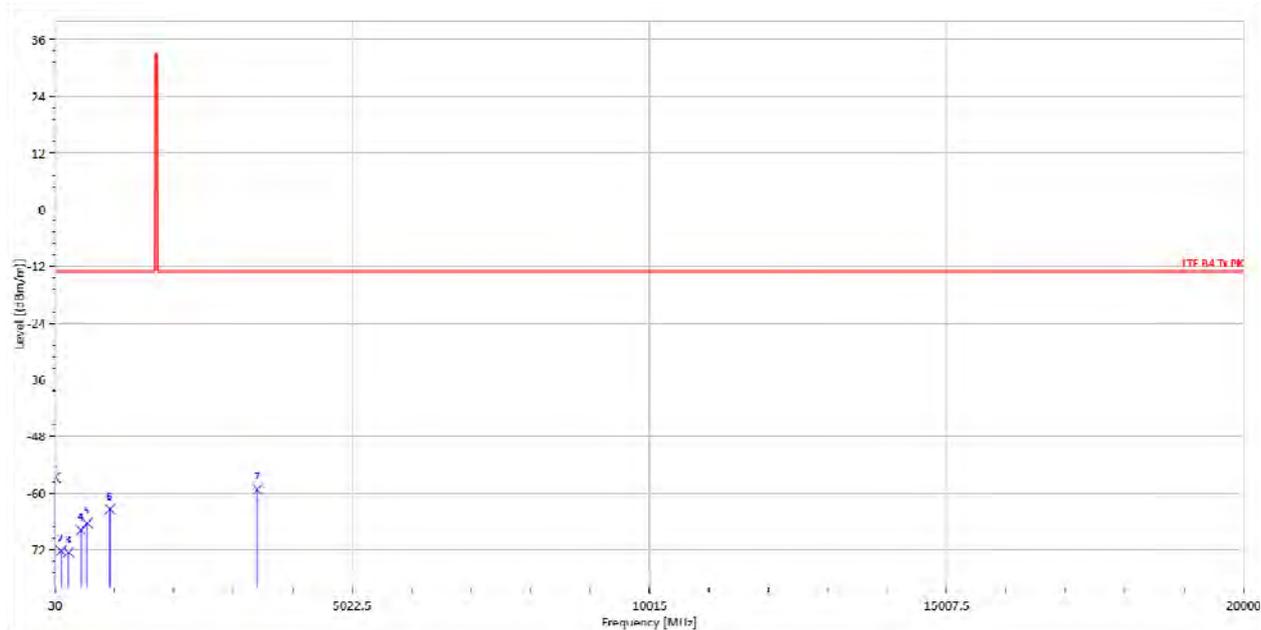
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Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1715 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.70	-37.09	-18.78	-0.83	-13	-43.70
131.85	S	-72.26	-70.48	-0.18	-1.59	-13	-59.26
257.95	S	-72.56	-74.92	4.64	-2.29	-13	-59.56
467.47	S	-67.90	-71.14	6.35	-3.10	-13	-54.90
568.35	S	-66.38	-69.61	6.68	-3.46	-13	-53.38
953.44	S	-63.41	-66.85	7.97	-4.53	-13	-50.41
3430.00	H	-59.25	-62.71	12.16	-8.70	-13	-46.25

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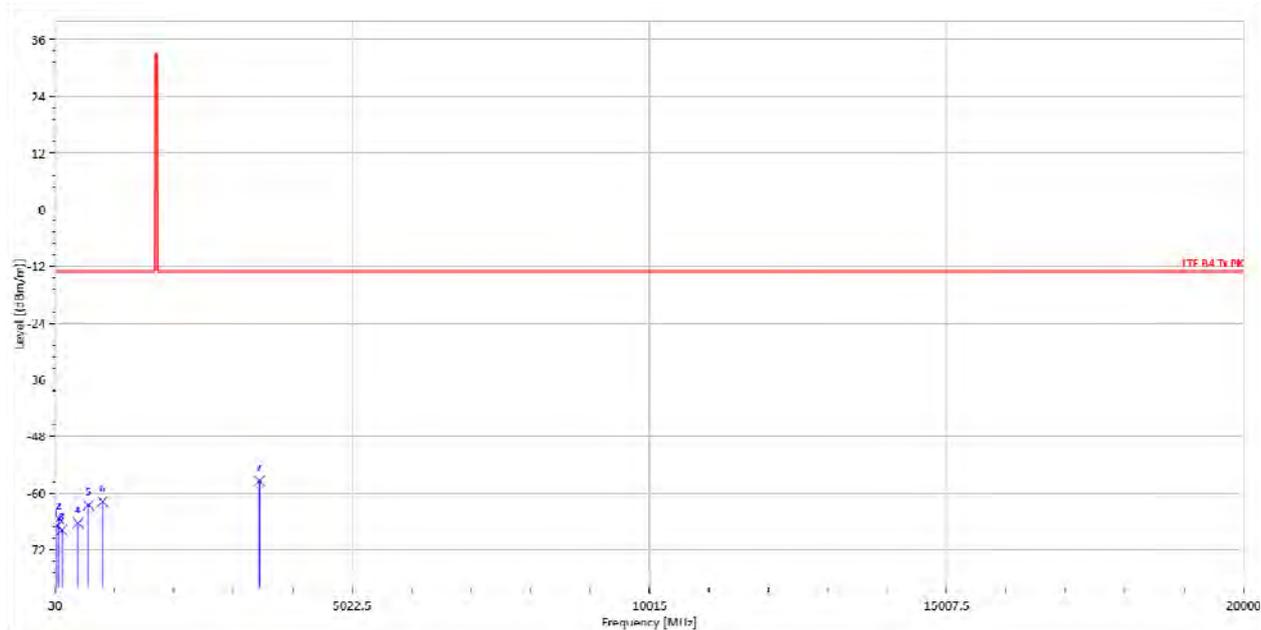
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Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1732 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
58.13	S	-67.03	-64.04	-1.95	-1.03	-13	-54.03
94.99	S	-65.48	-63.44	-0.70	-1.34	-13	-52.48
147.37	S	-67.84	-67.93	1.79	-1.69	-13	-54.84
416.06	S	-66.34	-69.32	5.92	-2.94	-13	-53.34
589.69	S	-62.53	-65.88	6.88	-3.53	-13	-49.53
828.31	S	-61.80	-65.39	7.79	-4.19	-13	-48.80
3464.00	H	-57.47	-60.96	12.23	-8.73	-13	-44.47

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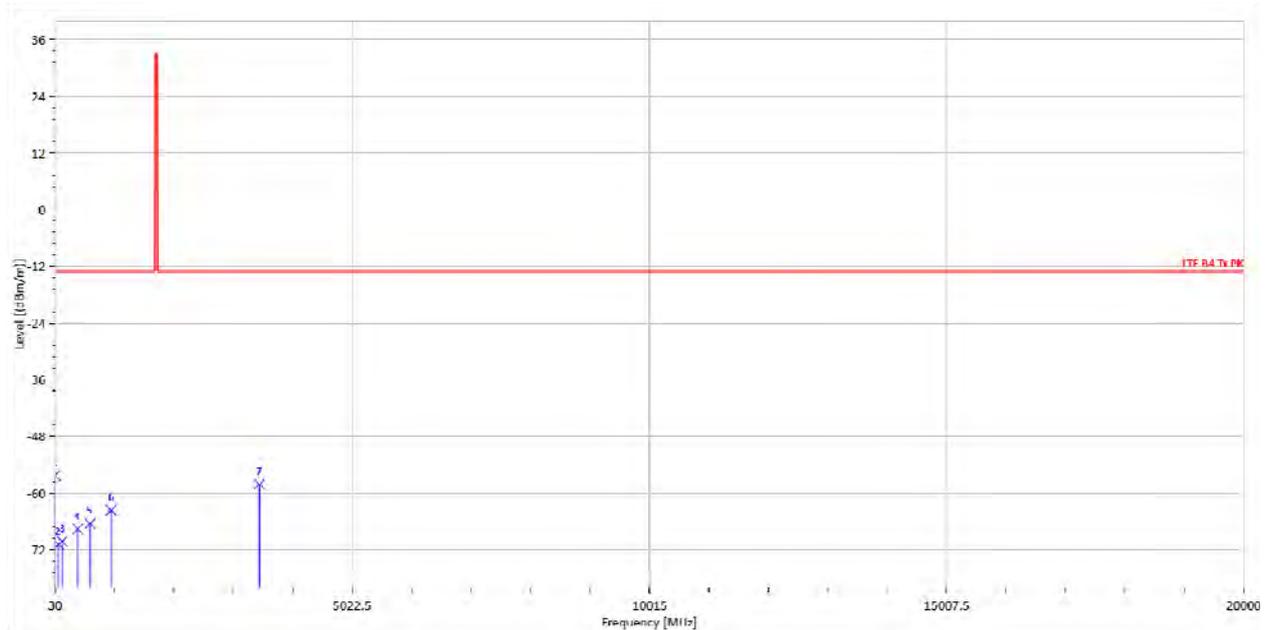
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Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1732 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.26	-36.66	-18.78	-0.83	-13	-43.26
88.20	S	-70.87	-69.59	0.00	-1.29	-13	-57.87
150.28	S	-70.23	-70.68	2.16	-1.71	-13	-57.23
410.24	S	-67.61	-70.55	5.86	-2.92	-13	-54.61
617.82	S	-66.49	-69.91	7.04	-3.62	-13	-53.49
972.84	S	-63.69	-67.13	8.03	-4.59	-13	-50.69
3464.00	H	-58.12	-61.62	12.23	-8.73	-13	-45.12

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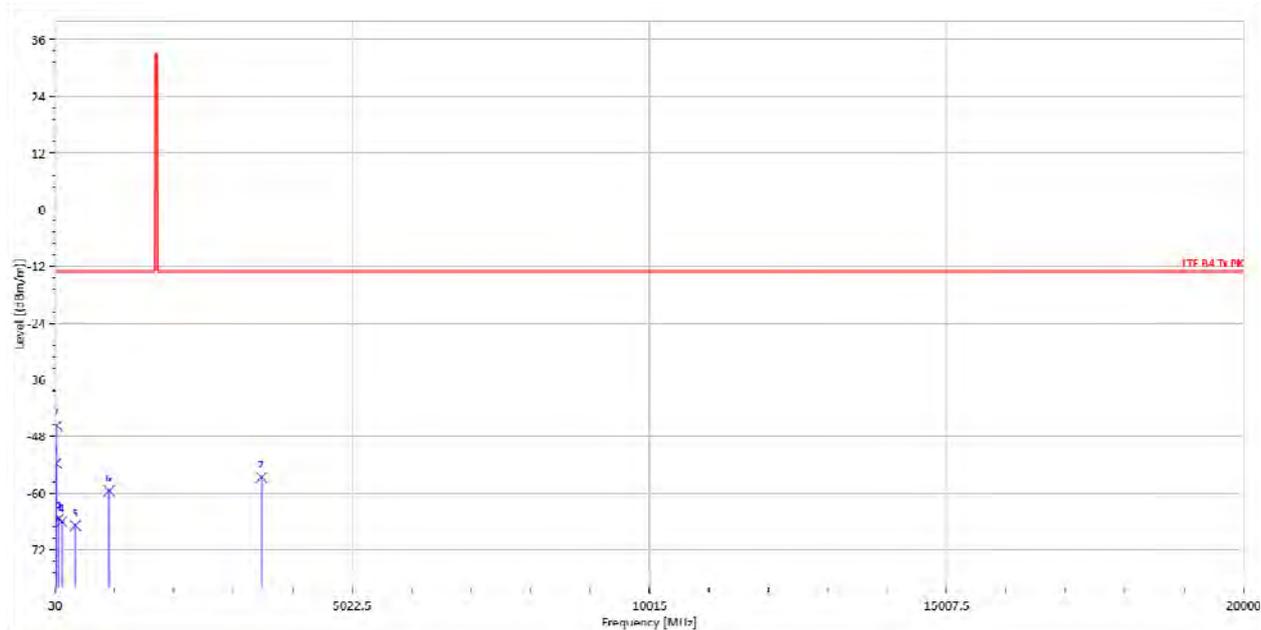
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Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1750 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
47.46	S	-53.71	-46.09	-6.69	-0.93	-13	-40.71
59.10	S	-45.72	-43.10	-1.58	-1.04	-13	-32.72
94.99	S	-65.33	-63.29	-0.70	-1.34	-13	-52.33
145.43	S	-66.09	-65.94	1.54	-1.68	-13	-53.09
368.53	S	-66.87	-70.03	5.90	-2.74	-13	-53.87
938.89	S	-59.54	-62.99	7.95	-4.50	-13	-46.54
3500.00	H	-56.69	-60.23	12.30	-8.76	-13	-43.69

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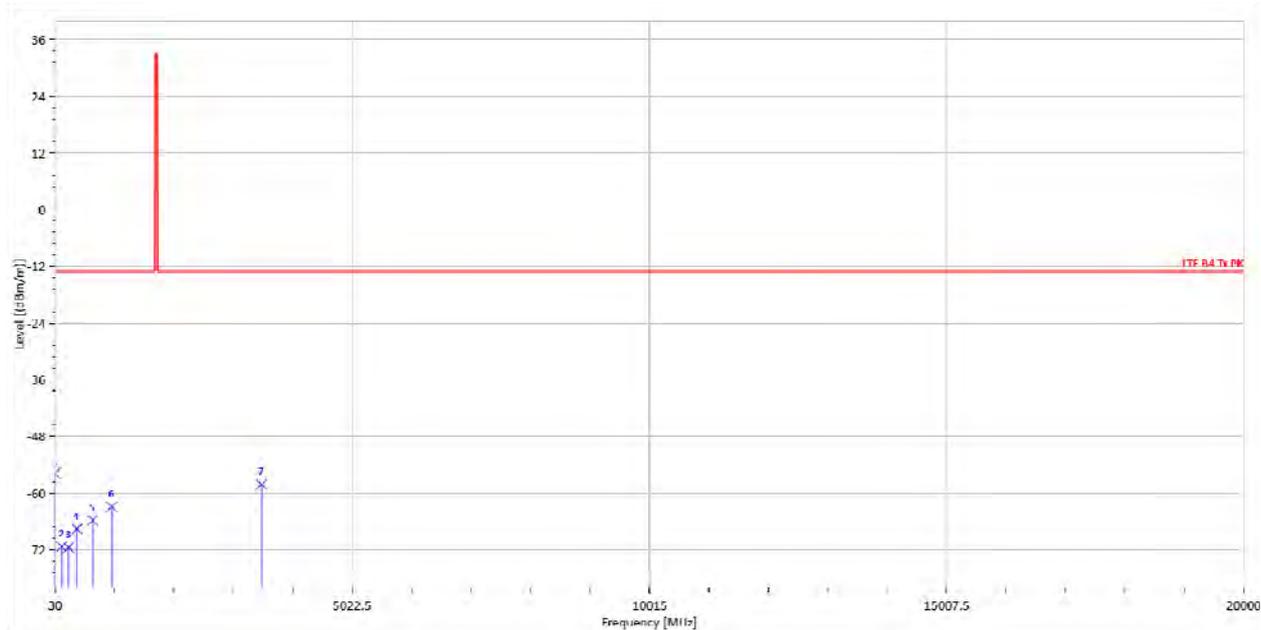
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Operation Mode :	LTEB4 10M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	1750 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.85	-36.25	-18.78	-0.83	-13	-42.85
140.58	S	-71.35	-70.60	0.91	-1.65	-13	-58.35
258.92	S	-71.51	-73.80	4.58	-2.29	-13	-58.51
397.63	S	-67.60	-70.50	5.76	-2.86	-13	-54.60
662.44	S	-65.78	-69.36	7.30	-3.72	-13	-52.78
983.51	S	-62.88	-66.34	8.06	-4.61	-13	-49.88
3500.00	H	-58.17	-61.71	12.30	-8.76	-13	-45.17

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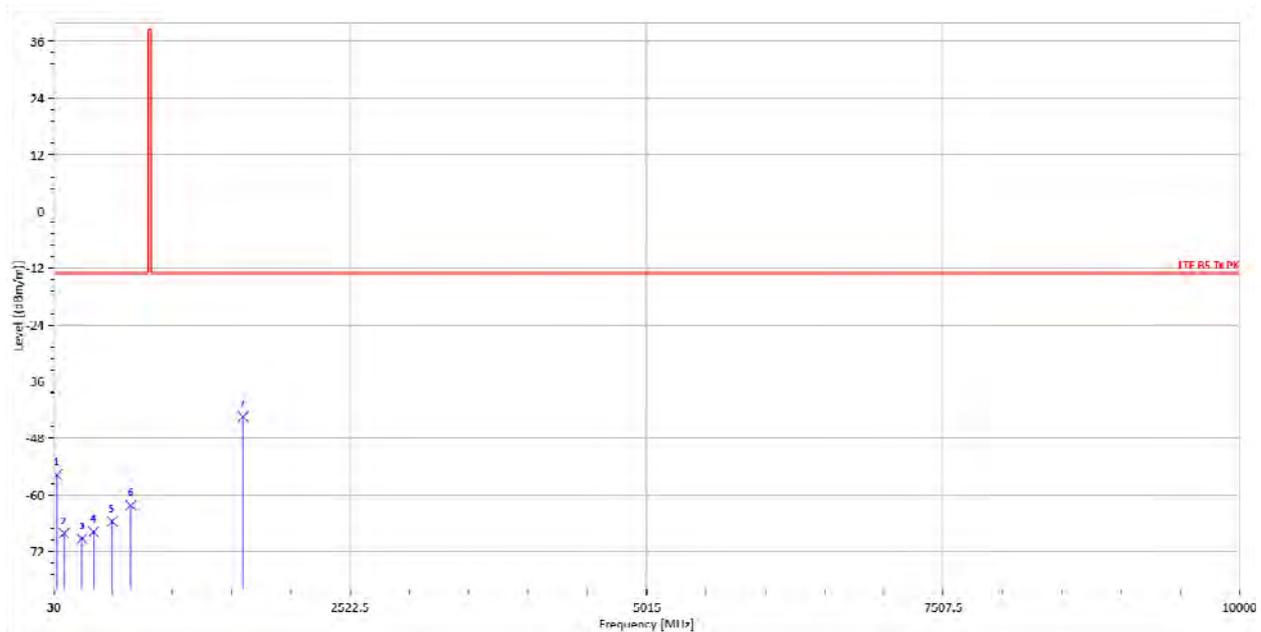
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### Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
56.19	S	-55.78	-50.07	-4.70	-1.01	-13	-42.78
117.30	S	-68.16	-63.31	-3.35	-1.49	-13	-55.16
266.68	S	-69.27	-69.69	2.75	-2.33	-13	-56.27
364.65	S	-67.86	-68.50	3.37	-2.73	-13	-54.86
521.79	S	-65.66	-66.36	4.01	-3.32	-13	-52.66
676.99	S	-62.24	-63.34	4.86	-3.76	-13	-49.24
1621.00	H	-43.48	-43.55	6.46	-6.39	-13	-30.48

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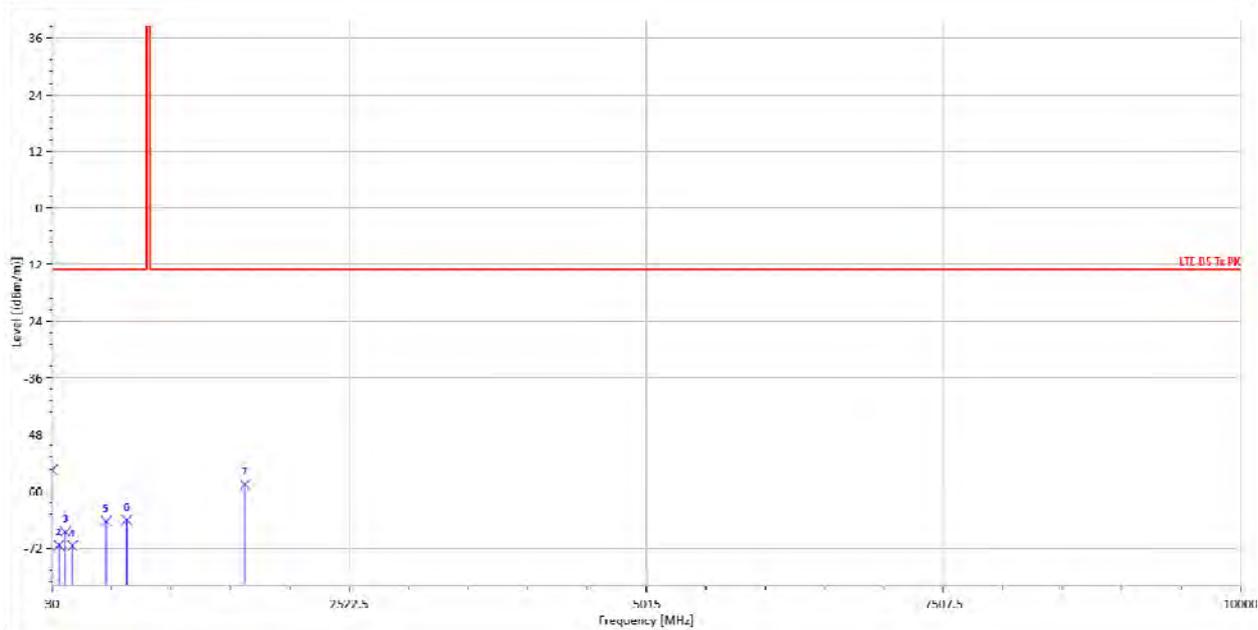
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Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.46	-33.82	-20.82	-0.83	-13	-42.46
88.20	S	-71.35	-67.91	-2.16	-1.29	-13	-58.35
140.58	S	-68.61	-65.82	-1.13	-1.65	-13	-55.61
200.72	S	-71.54	-73.35	3.80	-1.99	-13	-58.54
483.96	S	-66.33	-67.07	3.91	-3.17	-13	-53.33
656.62	S	-66.05	-67.02	4.68	-3.71	-13	-53.05
1648.00	H	-58.58	-58.70	6.57	-6.45	-13	-45.58

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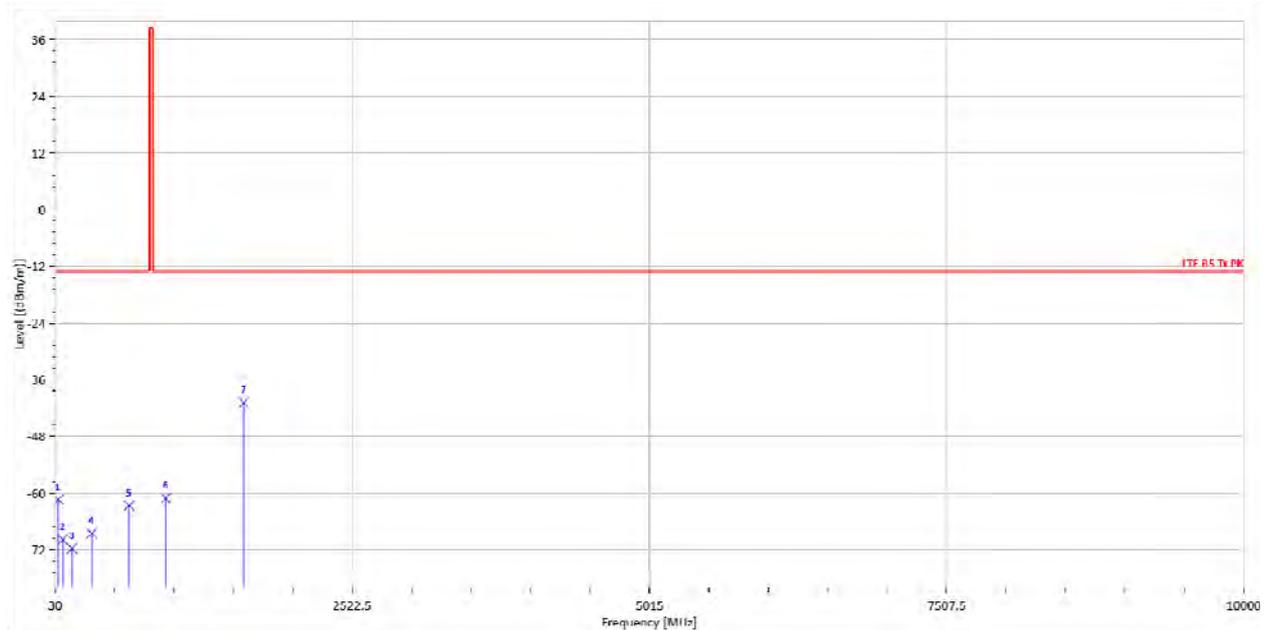
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Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
58.13	S	-61.39	-56.43	-3.92	-1.03	-13	-48.39
94.99	S	-69.88	-65.74	-2.80	-1.34	-13	-56.88
171.62	S	-71.75	-72.66	2.75	-1.84	-13	-58.75
338.46	S	-68.54	-69.36	3.45	-2.63	-13	-55.54
651.77	S	-62.65	-63.58	4.64	-3.70	-13	-49.65
959.26	S	-61.08	-61.97	5.44	-4.55	-13	-48.08
1612.00	H	-40.90	-40.94	6.42	-6.38	-13	-27.90

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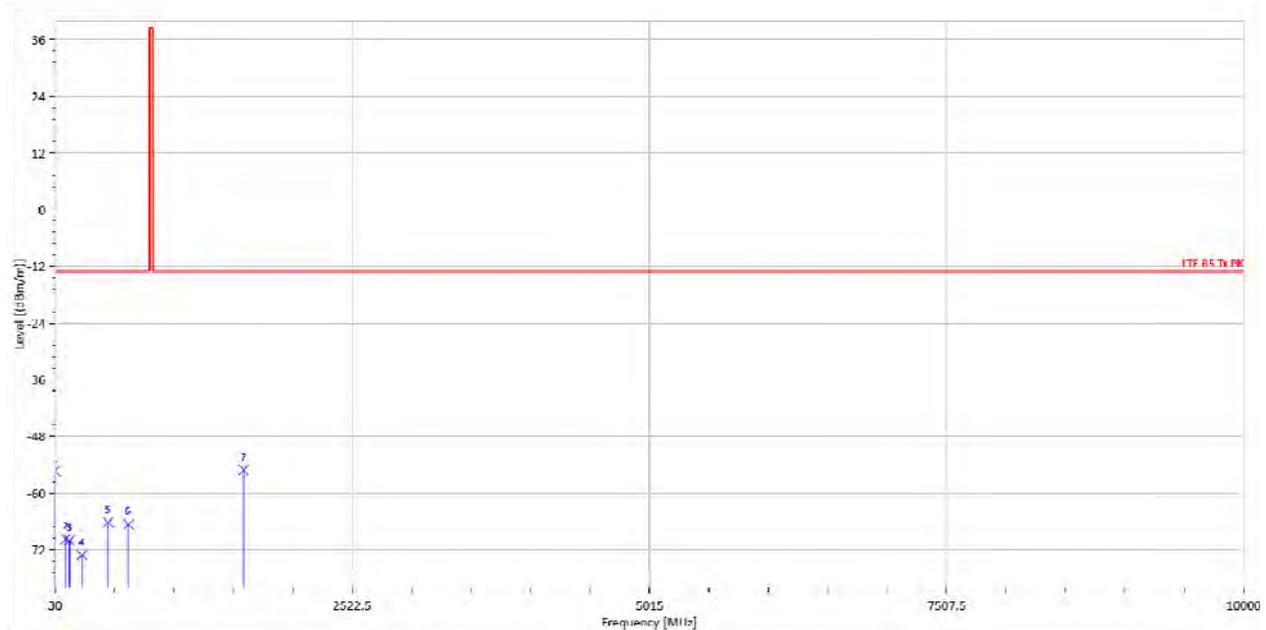
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Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-55.33	-32.85	-21.66	-0.82	-13	-42.33
119.24	S	-69.77	-64.98	-3.29	-1.51	-13	-56.77
151.25	S	-70.09	-68.78	0.41	-1.72	-13	-57.09
256.01	S	-73.15	-73.23	2.36	-2.28	-13	-60.15
475.23	S	-66.22	-66.92	3.83	-3.13	-13	-53.22
645.95	S	-66.66	-67.56	4.60	-3.69	-13	-53.66
1612.00	H	-55.14	-55.18	6.42	-6.38	-13	-42.14

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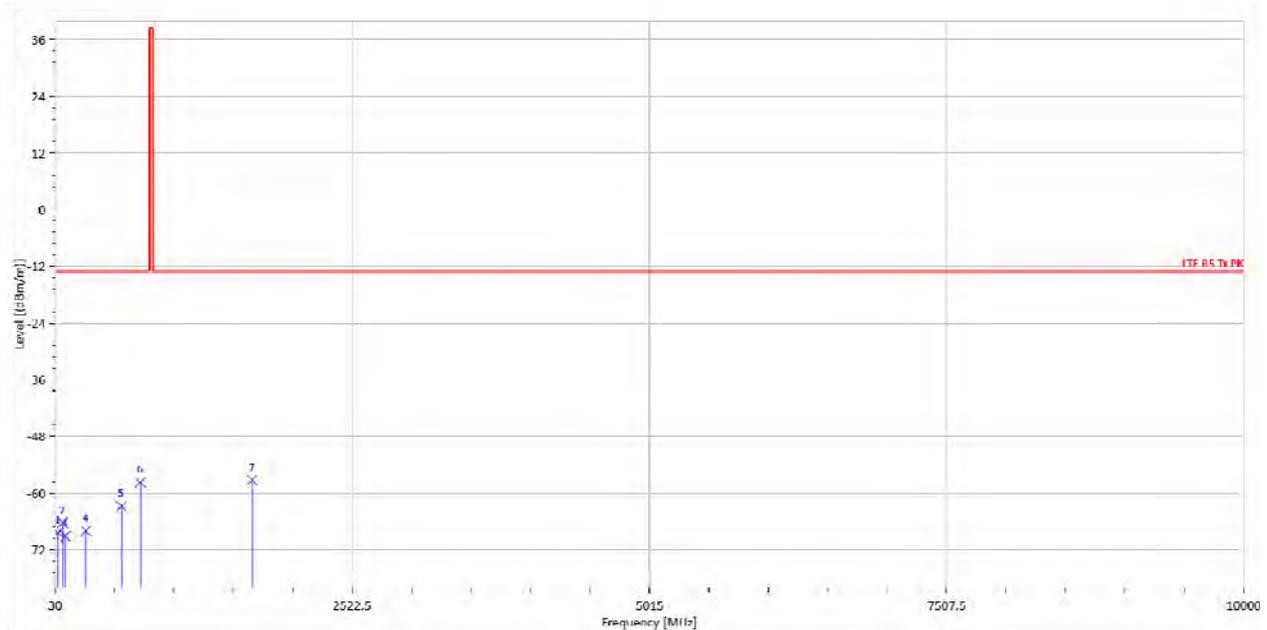
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Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
54.25	S	-68.39	-61.93	-5.47	-0.99	-13	-55.39
94.99	S	-66.32	-62.18	-2.80	-1.34	-13	-53.32
116.33	S	-69.11	-64.24	-3.39	-1.49	-13	-56.11
288.02	S	-68.05	-69.02	3.39	-2.41	-13	-55.05
587.75	S	-62.79	-63.50	4.23	-3.52	-13	-49.79
746.83	S	-57.76	-58.99	5.15	-3.93	-13	-44.76
1684.00	H	-57.22	-57.41	6.72	-6.53	-13	-44.22

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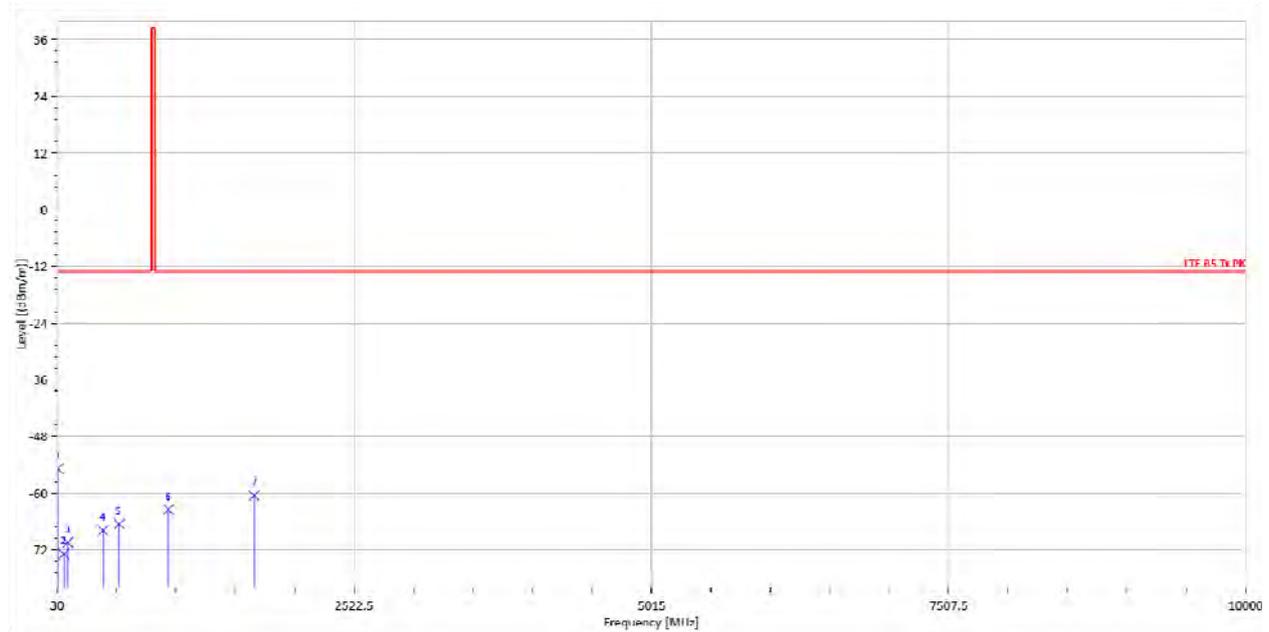
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Operation Mode :	LTEB5 5M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-54.82	-38.05	-15.92	-0.85	-13	-41.82
88.20	S	-72.92	-69.48	-2.16	-1.29	-13	-59.92
119.24	S	-70.46	-65.67	-3.29	-1.51	-13	-57.46
416.06	S	-67.93	-68.33	3.33	-2.94	-13	-54.93
550.89	S	-66.56	-67.12	3.98	-3.41	-13	-53.56
964.11	S	-63.49	-64.38	5.45	-4.56	-13	-50.49
1684.00	H	-60.54	-60.74	6.72	-6.53	-13	-47.54

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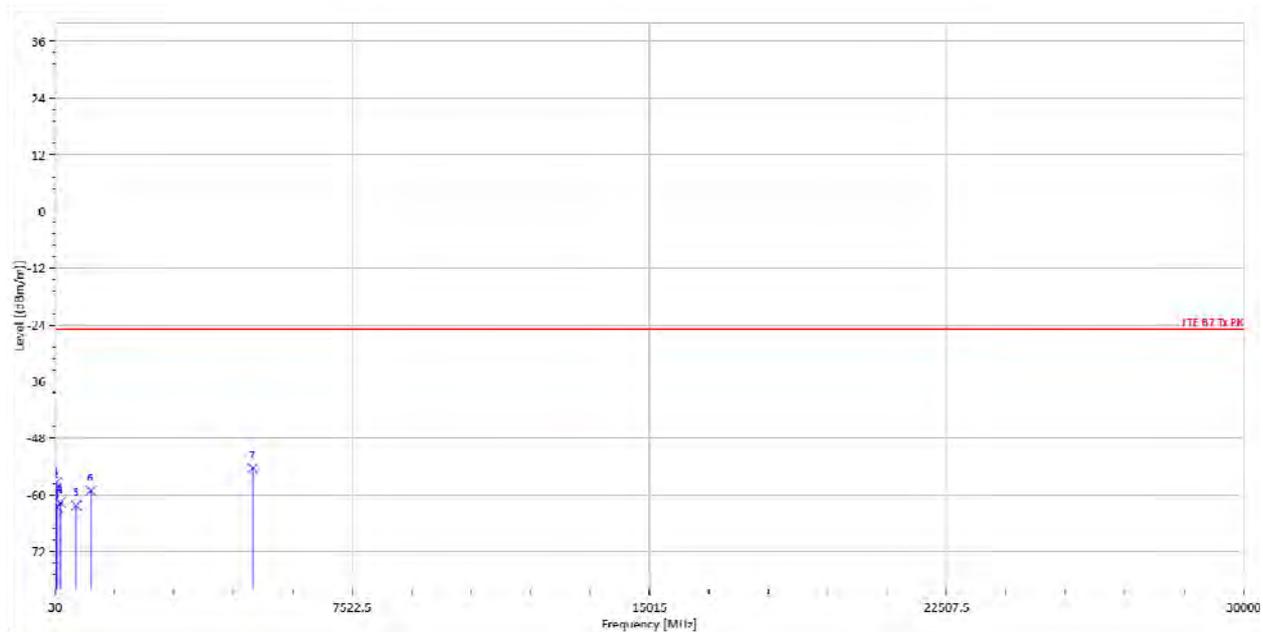
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### Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2507.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
56.19	S	-57.49	-53.77	-2.71	-1.01	-25	-32.49
68.80	S	-58.47	-57.29	-0.05	-1.13	-25	-33.47
88.20	S	-62.65	-61.37	-0.01	-1.29	-25	-37.64
160.95	S	-61.68	-63.20	3.30	-1.78	-25	-36.68
563.50	S	-62.26	-65.46	6.64	-3.44	-25	-37.26
932.10	S	-59.15	-62.62	7.94	-4.48	-25	-34.15
5015.00	H	-54.35	-56.93	12.52	-9.93	-25	-29.35

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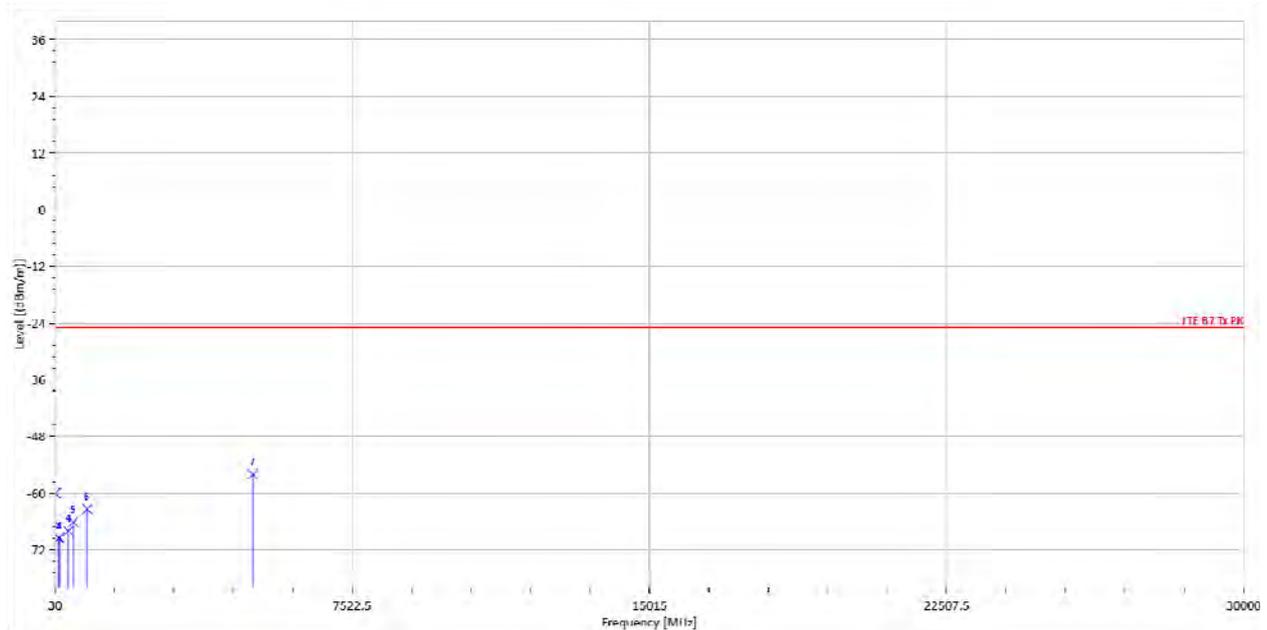
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Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2507.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-60.06	-45.31	-13.90	-0.85	-25	-35.06
119.24	S	-69.56	-66.82	-1.24	-1.51	-25	-44.56
138.64	S	-69.45	-68.47	0.66	-1.64	-25	-44.45
364.65	S	-68.06	-71.26	5.92	-2.73	-25	-43.06
491.72	S	-66.15	-69.41	6.45	-3.20	-25	-41.15
840.92	S	-63.41	-66.97	7.79	-4.24	-25	-38.41
5015.00	H	-56.13	-58.71	12.52	-9.93	-25	-31.13

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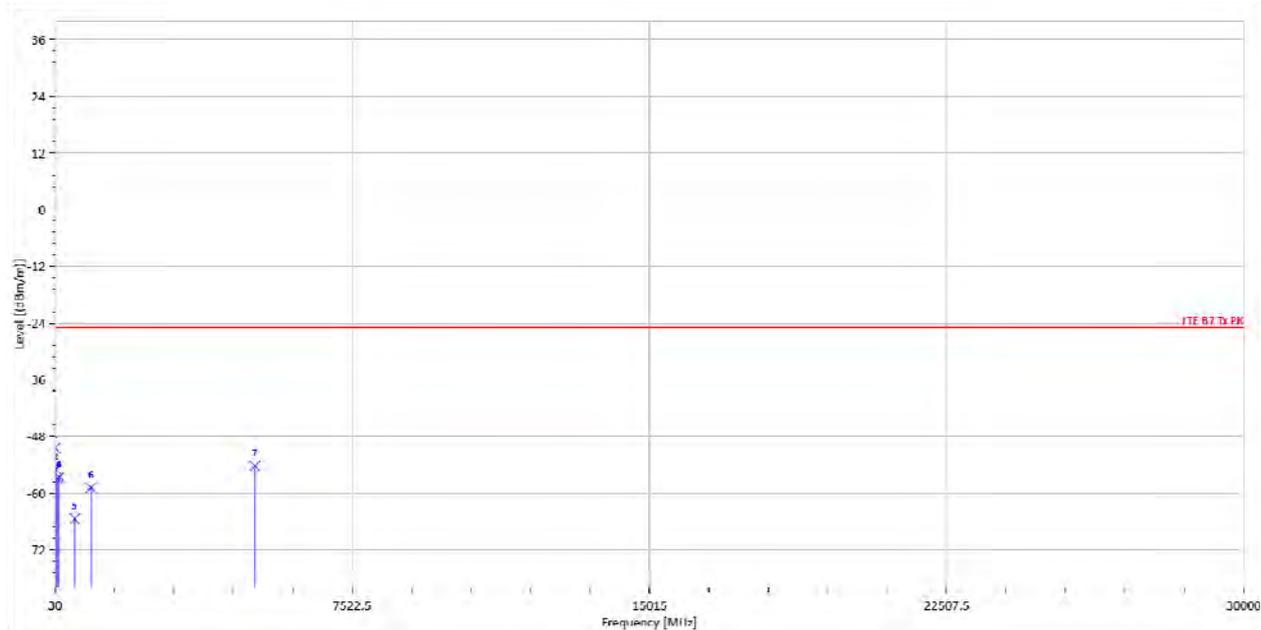
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Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-50.42	-35.67	-13.90	-0.85	-25	-25.42
53.28	S	-54.94	-50.12	-3.84	-0.98	-25	-29.94
91.11	S	-56.92	-55.38	-0.24	-1.31	-25	-31.92
131.85	S	-56.62	-54.85	-0.18	-1.59	-25	-31.62
527.61	S	-65.43	-68.59	6.50	-3.34	-25	-40.43
936.95	S	-58.90	-62.35	7.95	-4.49	-25	-33.90
5070.00	H	-54.26	-56.86	12.57	-9.98	-25	-29.26

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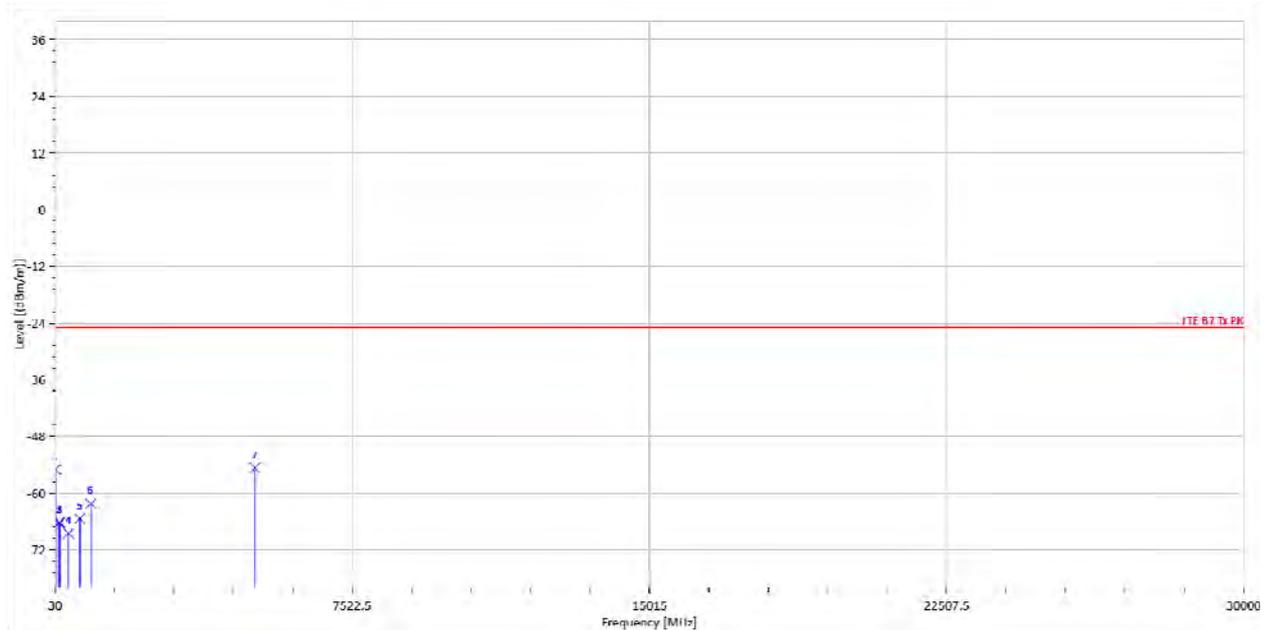
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Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
50.37	S	-55.01	-49.09	-4.97	-0.95	-25	-30.01
121.18	S	-66.32	-63.69	-1.11	-1.52	-25	-41.32
152.22	S	-66.25	-66.90	2.37	-1.72	-25	-41.25
366.59	S	-68.55	-71.72	5.91	-2.74	-25	-43.55
655.65	S	-65.41	-68.93	7.23	-3.71	-25	-40.41
935.01	S	-62.23	-65.69	7.94	-4.49	-25	-37.23
5070.00	H	-54.66	-57.25	12.57	-9.98	-25	-29.66

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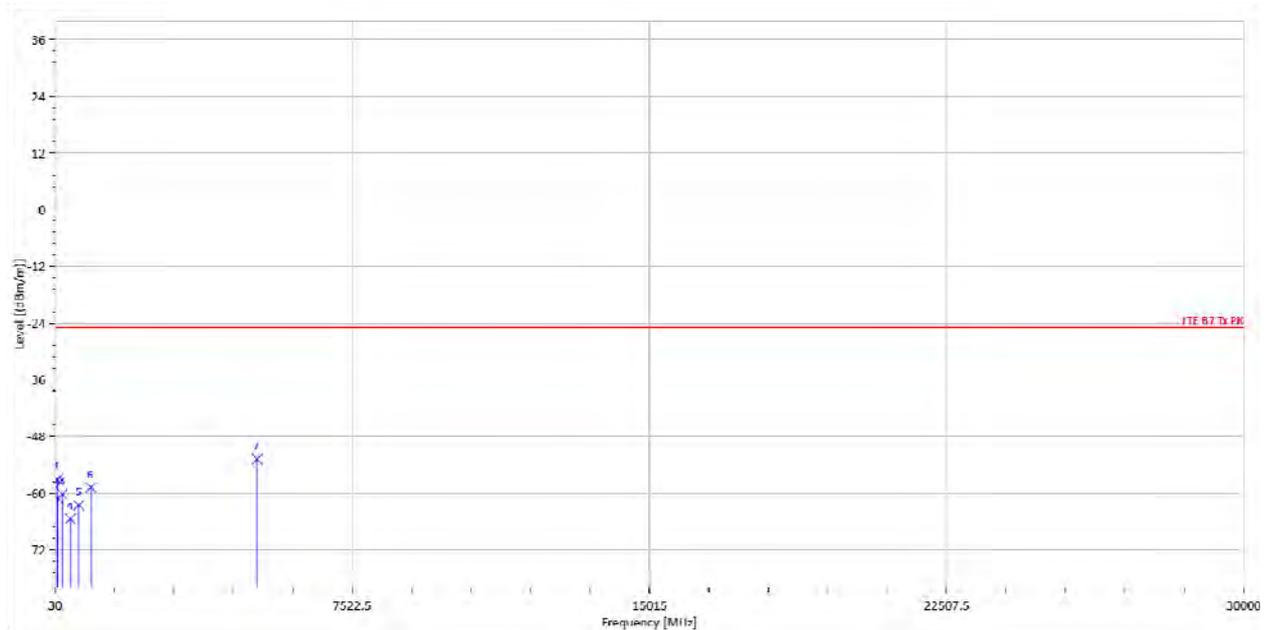
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Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2562.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
91.11	S	-57.10	-55.56	-0.24	-1.31	-25	-32.10
106.63	S	-61.16	-58.20	-1.54	-1.43	-25	-36.16
215.27	S	-60.22	-64.37	6.21	-2.07	-25	-35.22
417.03	S	-65.46	-68.45	5.93	-2.94	-25	-40.46
627.52	S	-62.55	-65.98	7.08	-3.65	-25	-37.55
935.01	S	-58.82	-62.28	7.94	-4.49	-25	-33.82
5125.00	H	-52.81	-55.42	12.63	-10.02	-25	-27.81

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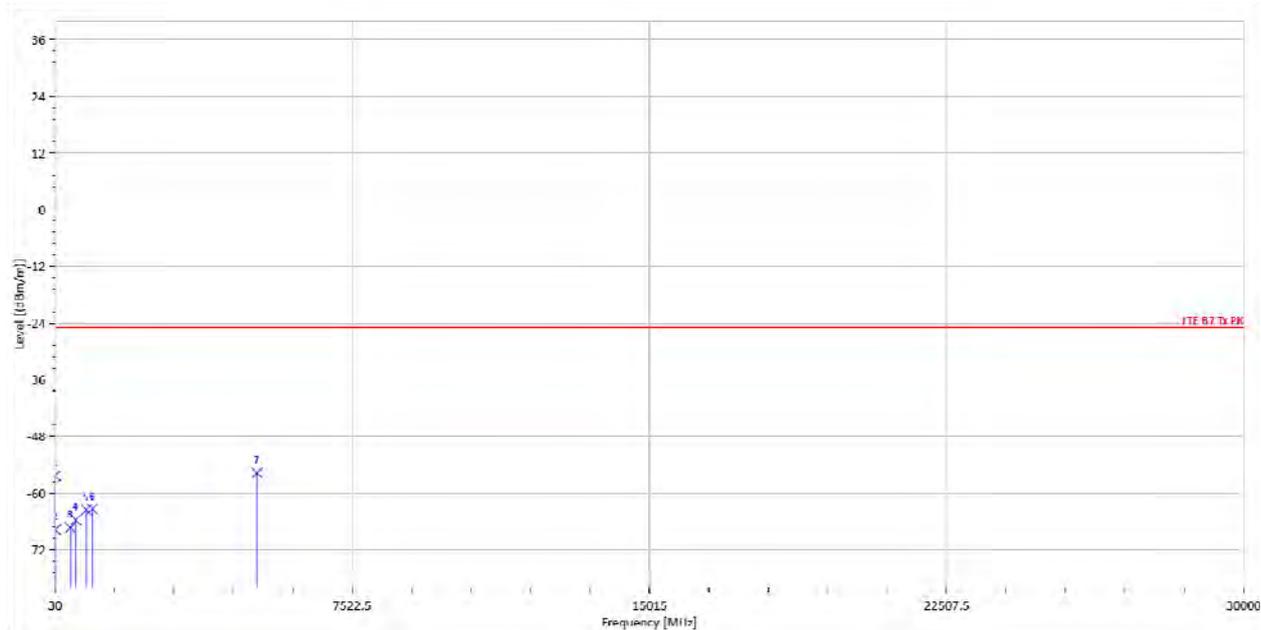
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Operation Mode :	LTEB7 15M 64QAM 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2562.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
32.91	S	-56.35	-37.52	-18.00	-0.83	-25	-31.35
45.52	S	-67.77	-58.96	-7.90	-0.91	-25	-42.77
418.00	S	-67.35	-70.35	5.94	-2.94	-25	-42.35
554.77	S	-65.73	-68.87	6.56	-3.42	-25	-40.73
820.55	S	-63.58	-67.20	7.78	-4.16	-25	-38.58
968.96	S	-63.39	-66.84	8.02	-4.58	-25	-38.39
5125.00	H	-55.75	-58.36	12.63	-10.02	-25	-30.75

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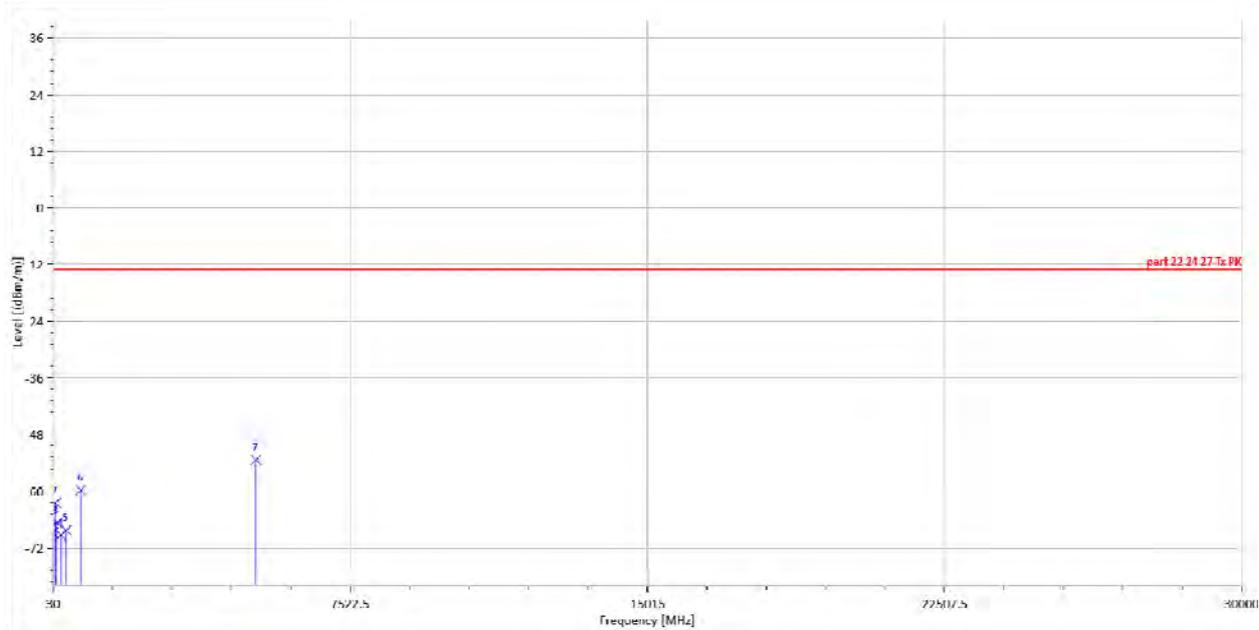
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### Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2572.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	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	-68.77	-49.16	-18.78	-0.83	-13.01	-55.76
88.20	S	-62.51	-61.22	0.00	-1.29	-13.01	-49.50
118.27	S	-66.69	-63.90	-1.29	-1.50	-13.01	-53.68
226.91	S	-69.25	-73.27	6.14	-2.12	-13.01	-56.24
360.77	S	-68.27	-71.49	5.94	-2.71	-13.01	-55.26
730.34	S	-59.75	-63.56	7.71	-3.90	-13.01	-46.74
5145.00	H	-53.36	-55.97	12.65	-10.03	-13.01	-40.35

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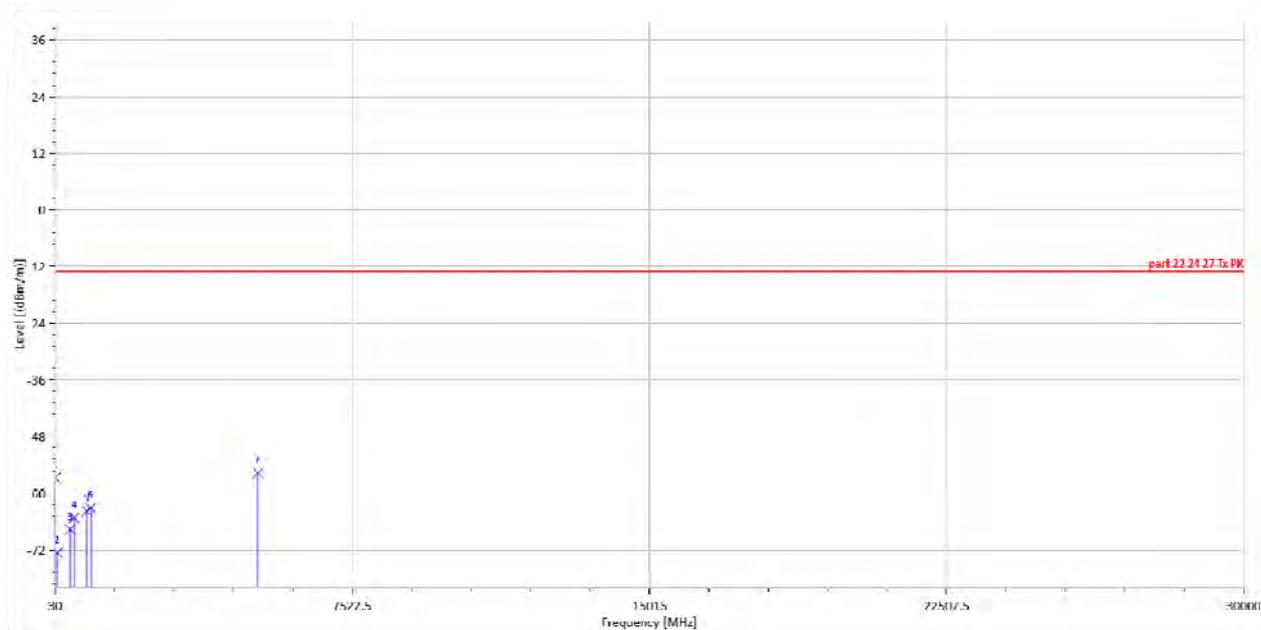
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Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2572.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



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	-56.71	-37.10	-18.78	-0.83	-13.01	-43.70
81.41	S	-72.59	-71.74	0.39	-1.23	-13.01	-59.58
409.27	S	-67.64	-70.57	5.85	-2.92	-13.01	-54.63
517.91	S	-65.16	-68.36	6.50	-3.30	-13.01	-52.15
831.22	S	-63.82	-67.41	7.79	-4.20	-13.01	-50.81
934.04	S	-63.13	-66.59	7.94	-4.48	-13.01	-50.12
5145.00	H	-55.68	-58.30	12.65	-10.03	-13.01	-42.67

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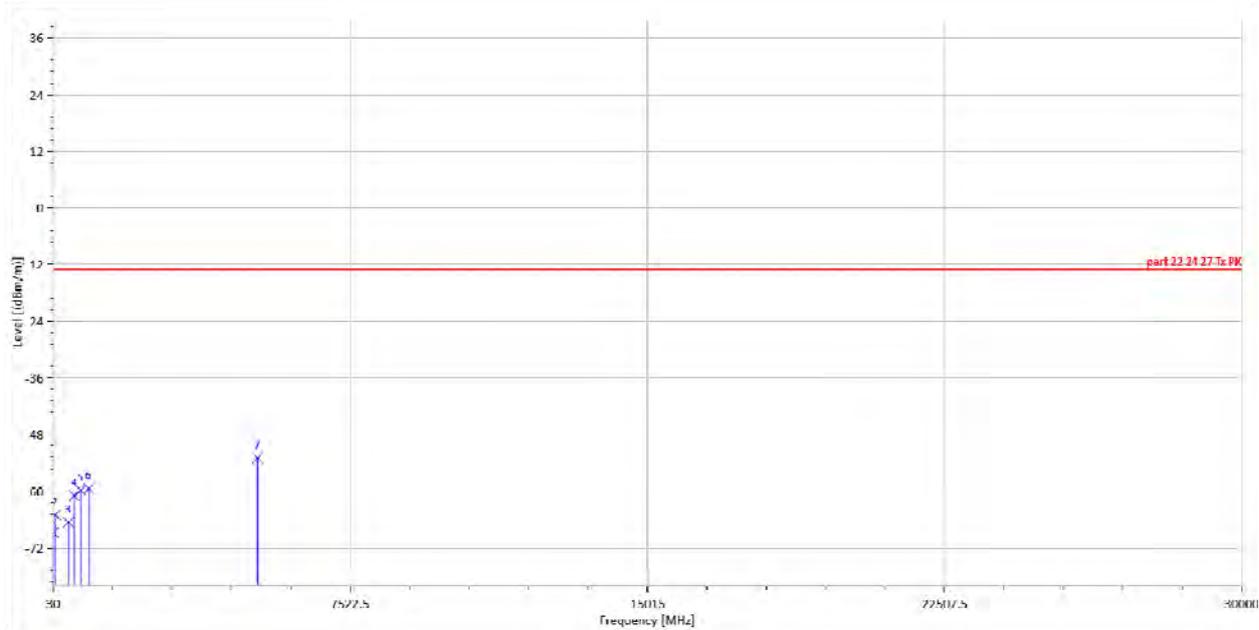
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Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



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
31.94	S	-68.74	-49.13	-18.78	-0.83	-13.01	-55.73
88.20	S	-65.01	-63.72	0.00	-1.29	-13.01	-52.00
417.03	S	-66.56	-69.55	5.93	-2.94	-13.01	-53.55
567.38	S	-60.93	-64.16	6.68	-3.45	-13.01	-47.92
730.34	S	-59.81	-63.62	7.71	-3.90	-13.01	-46.80
932.10	S	-59.46	-62.92	7.94	-4.48	-13.01	-46.45
5190.00	H	-52.95	-55.57	12.69	-10.06	-13.01	-39.94

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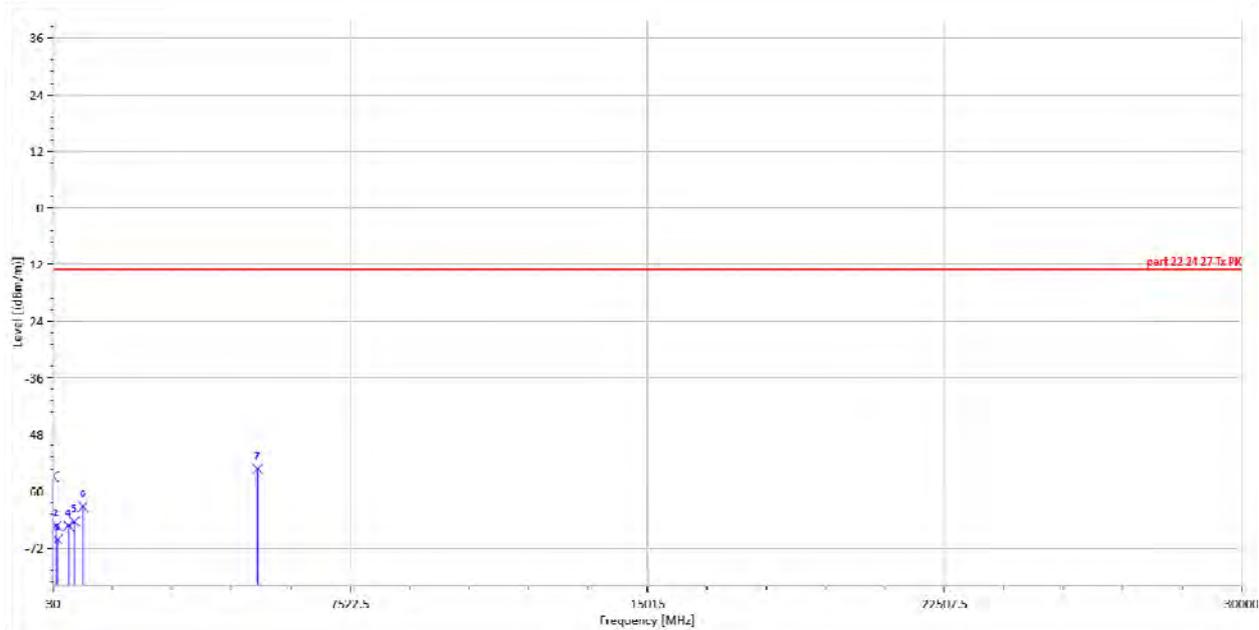
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Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



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	-56.85	-37.24	-18.78	-0.83	-13.01	-43.84
118.27	S	-67.26	-64.47	-1.29	-1.50	-13.01	-54.25
139.61	S	-70.26	-69.39	0.78	-1.65	-13.01	-57.25
419.94	S	-67.26	-70.27	5.96	-2.95	-13.01	-54.25
569.32	S	-66.41	-69.65	6.69	-3.46	-13.01	-53.40
782.72	S	-63.23	-66.92	7.75	-4.06	-13.01	-50.22
5190.00	H	-55.24	-57.87	12.69	-10.06	-13.01	-42.23

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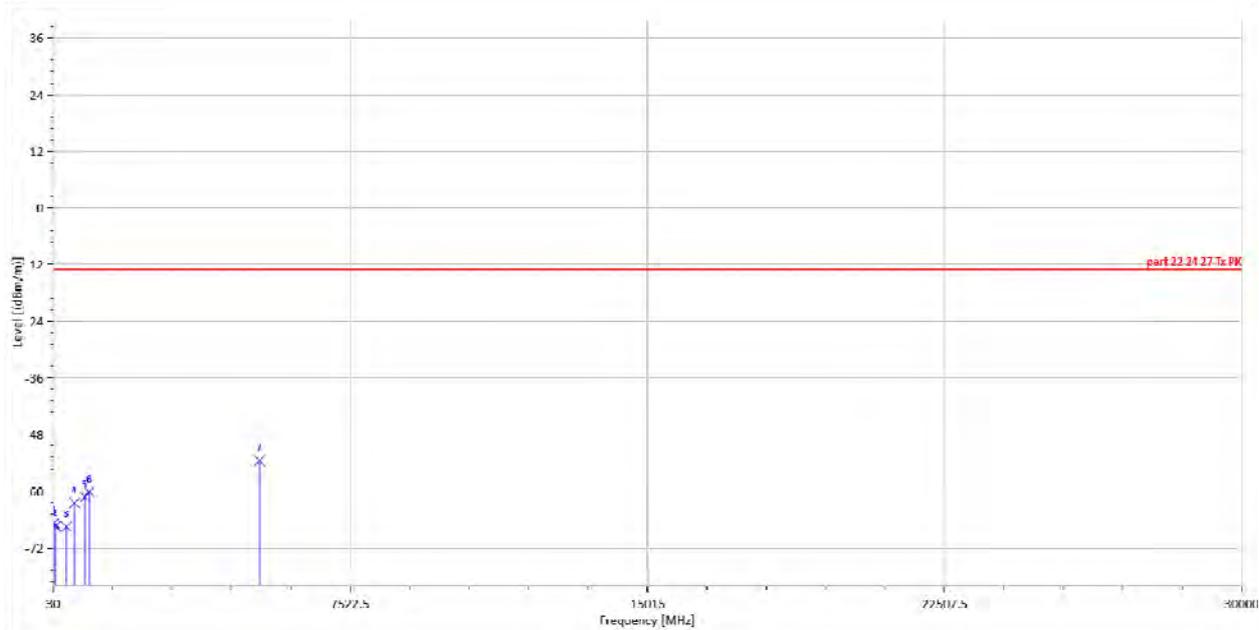
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Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2617.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



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	
54.25	S	-66.75	-62.30	-3.46	-0.99	-13.01	-53.74
94.99	S	-67.36	-65.32	-0.70	-1.34	-13.01	-54.35
367.56	S	-67.51	-70.68	5.91	-2.74	-13.01	-54.50
570.29	S	-62.53	-65.78	6.70	-3.46	-13.01	-49.52
836.07	S	-61.20	-64.77	7.79	-4.22	-13.01	-48.19
937.92	S	-60.07	-63.53	7.95	-4.49	-13.01	-47.06
5235.00	H	-53.57	-56.21	12.74	-10.09	-13.01	-40.56

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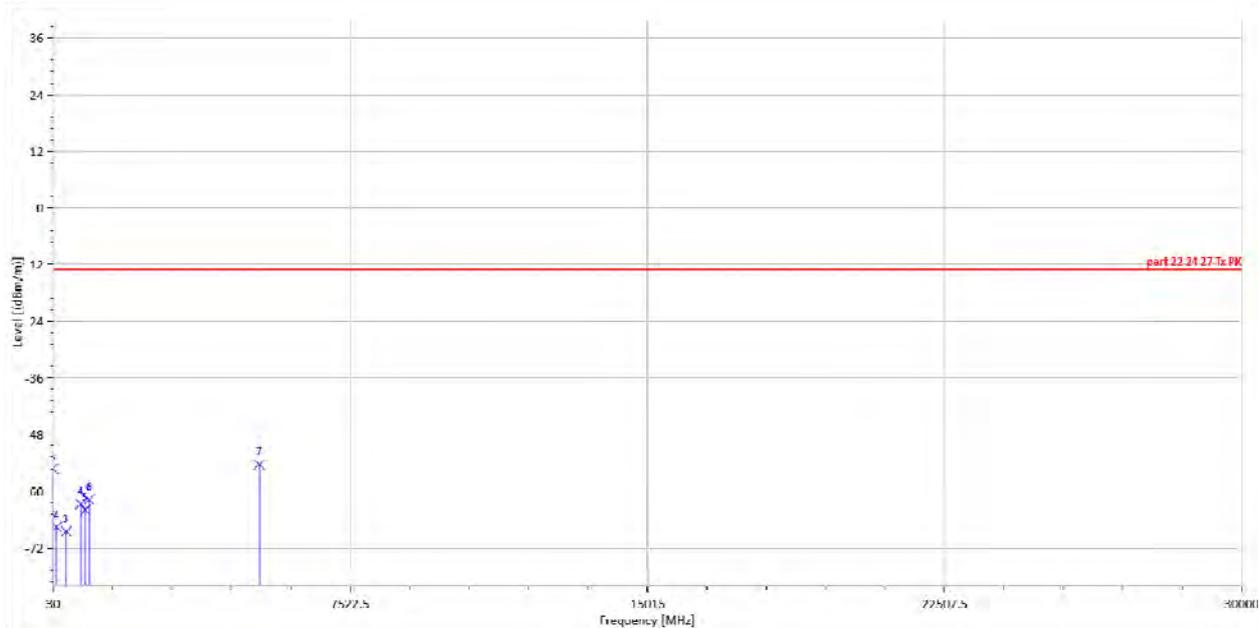
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Operation Mode :	LTEB38 5M QPSK 1.0	Test Date :	2017/8/3
Fundamental Frequency :	2617.5 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-55.18	-35.57	-18.78	-0.83	-13.01	-42.17
118.27	S	-67.56	-64.78	-1.29	-1.50	-13.01	-54.55
359.80	S	-68.53	-71.77	5.94	-2.71	-13.01	-55.52
730.34	S	-62.74	-66.55	7.71	-3.90	-13.01	-49.73
842.86	S	-63.98	-67.52	7.79	-4.25	-13.01	-50.97
936.95	S	-61.78	-65.23	7.95	-4.49	-13.01	-48.77
5235.00	H	-54.32	-56.96	12.74	-10.09	-13.01	-41.31

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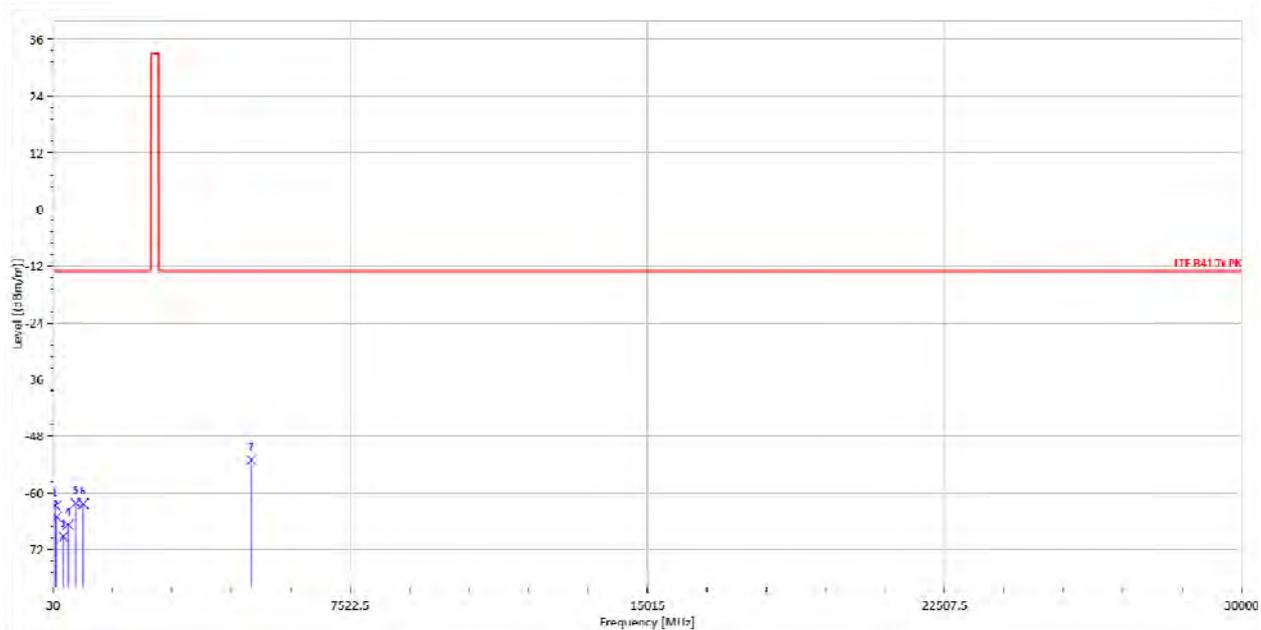
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### Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode :	LTEB41 20M QPSK 1.99	Test Date :	2017/8/3
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
91.11	S	-62.76	-61.21	-0.24	-1.31	-13	-49.76
117.30	S	-65.13	-62.31	-1.33	-1.49	-13	-52.13
290.93	S	-69.26	-72.60	5.77	-2.42	-13	-56.26
409.27	S	-66.75	-69.69	5.85	-2.92	-13	-53.75
607.15	S	-62.20	-65.61	7.00	-3.59	-13	-49.20
788.54	S	-62.34	-66.01	7.76	-4.08	-13	-49.34
5025.00	H	-53.06	-55.64	12.53	-9.94	-13	-40.06

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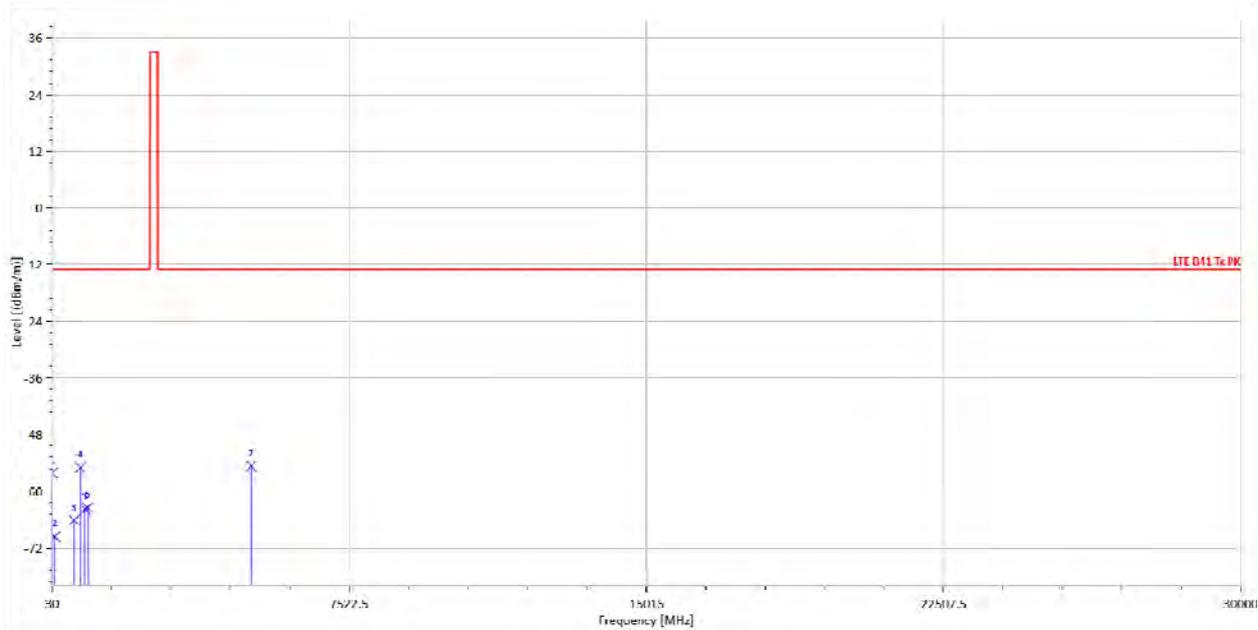
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f (886-2) 2298-0488

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Operation Mode :	LTEB41 20M QPSK 1.99	Test Date :	2017/8/3
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.14	-36.53	-18.78	-0.83	-13	-43.14
96.93	S	-69.61	-67.32	-0.93	-1.36	-13	-56.61
587.75	S	-66.15	-69.49	6.86	-3.52	-13	-53.15
746.83	S	-54.95	-58.73	7.71	-3.93	-13	-41.95
859.35	S	-63.78	-67.29	7.82	-4.31	-13	-50.78
932.10	S	-63.52	-66.99	7.94	-4.48	-13	-50.52
5053.00	H	-54.63	-57.22	12.55	-9.96	-13	-41.63

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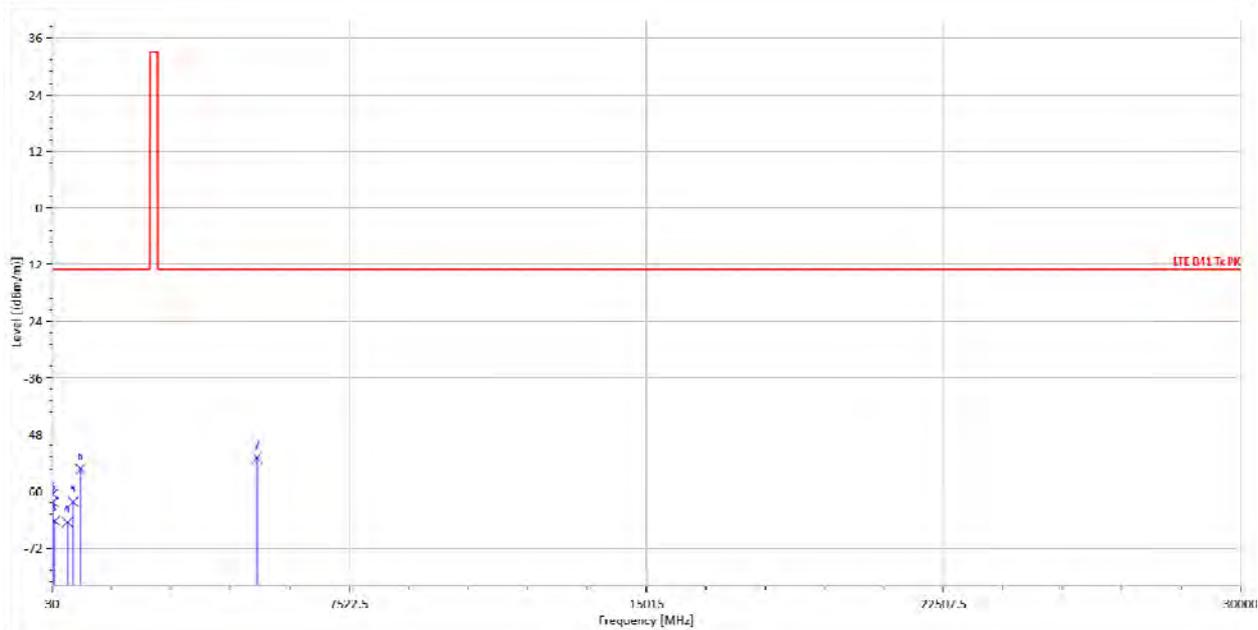
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Operation Mode : LTEB41 20M QPSK 1.99      Test Date : 2017/8/3  
 Fundamental Frequency : 2593 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Enzo  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
46.49	S	-60.51	-52.30	-7.30	-0.92	-13	-47.51
54.25	S	-62.29	-57.84	-3.46	-0.99	-13	-49.29
95.96	S	-66.26	-64.10	-0.81	-1.35	-13	-53.26
419.94	S	-66.55	-69.56	5.96	-2.95	-13	-53.55
561.56	S	-62.26	-65.45	6.62	-3.43	-13	-49.26
746.83	S	-55.31	-59.09	7.71	-3.93	-13	-42.31
5200.00	H	-52.95	-55.58	12.70	-10.07	-13	-39.95

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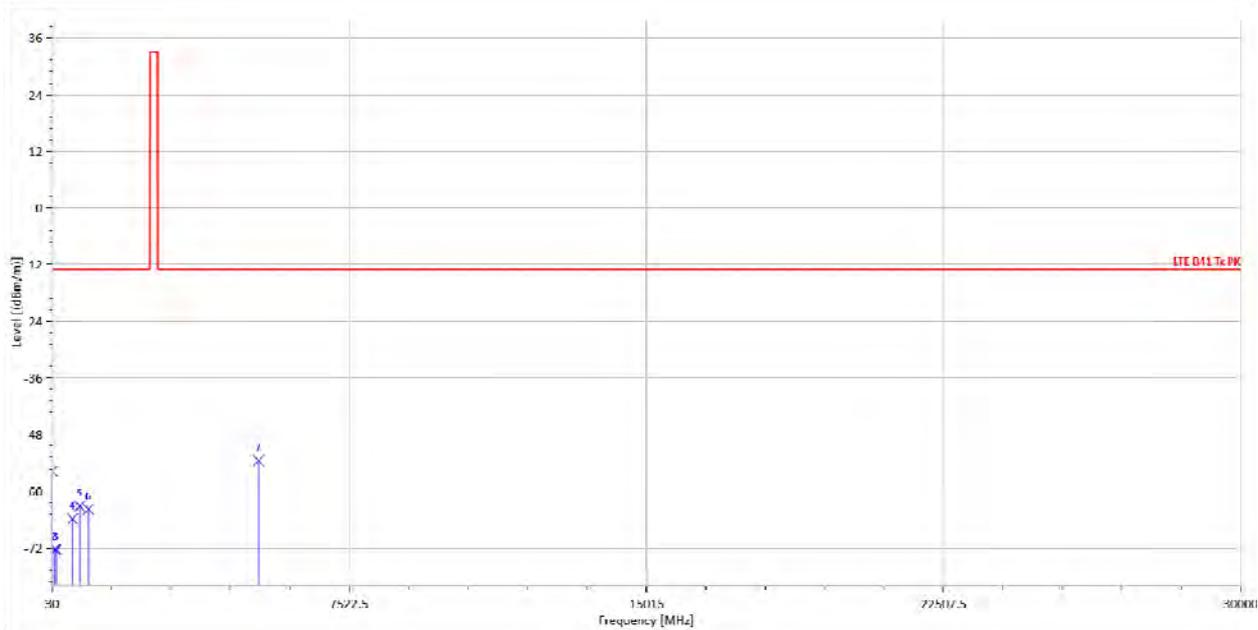
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Operation Mode :	LTEB41 20M QPSK 1.99	Test Date :	2017/8/3
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



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	-55.80	-36.19	-18.78	-0.83	-13	-42.80
92.08	S	-72.34	-70.67	-0.35	-1.32	-13	-59.34
137.67	S	-72.33	-71.23	0.54	-1.63	-13	-59.33
546.04	S	-65.82	-68.94	6.52	-3.40	-13	-52.82
729.37	S	-63.15	-66.96	7.71	-3.90	-13	-50.15
946.65	S	-63.84	-67.28	7.96	-4.51	-13	-50.84
5235.00	H	-53.54	-56.18	12.74	-10.09	-13	-40.54

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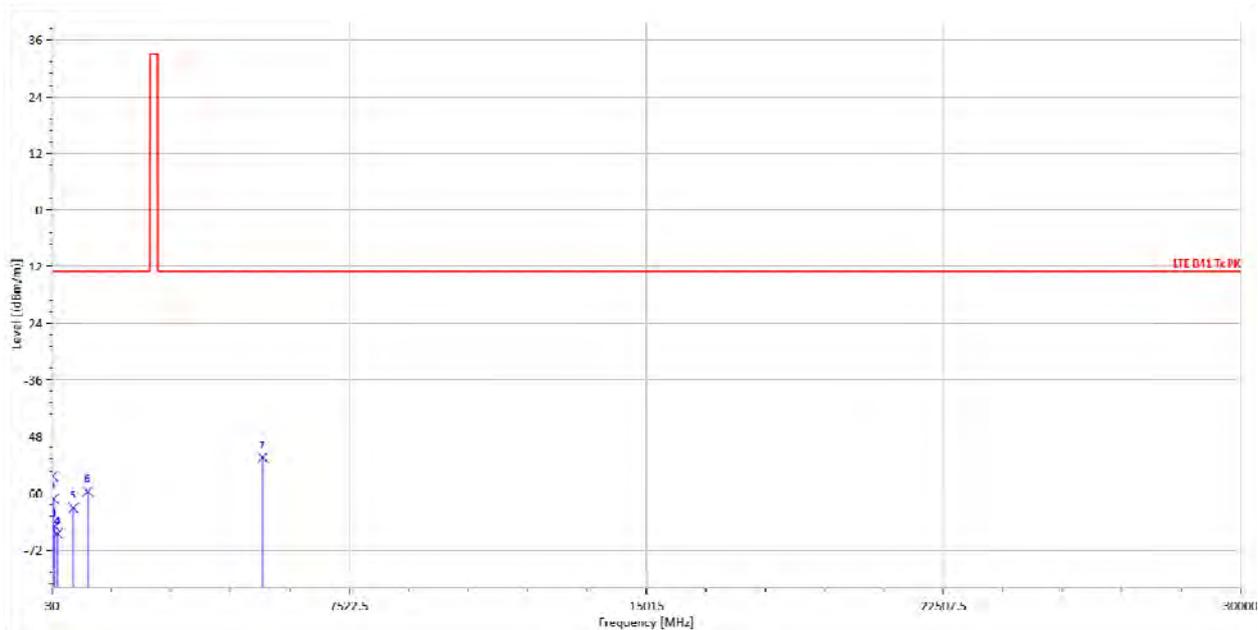
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Operation Mode :	LTEB41 20M QPSK 1.99	Test Date :	2017/8/3
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



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	
40.67	S	-56.36	-44.05	-11.45	-0.87	-13	-43.36
72.68	S	-61.17	-60.22	0.21	-1.16	-13	-48.17
94.99	S	-67.01	-64.97	-0.70	-1.34	-13	-54.01
162.89	S	-68.53	-70.26	3.52	-1.79	-13	-55.53
565.44	S	-63.08	-66.29	6.66	-3.45	-13	-50.08
932.10	S	-59.65	-63.11	7.94	-4.48	-13	-46.65
5340.00	H	-52.39	-55.06	12.84	-10.17	-13	-39.39

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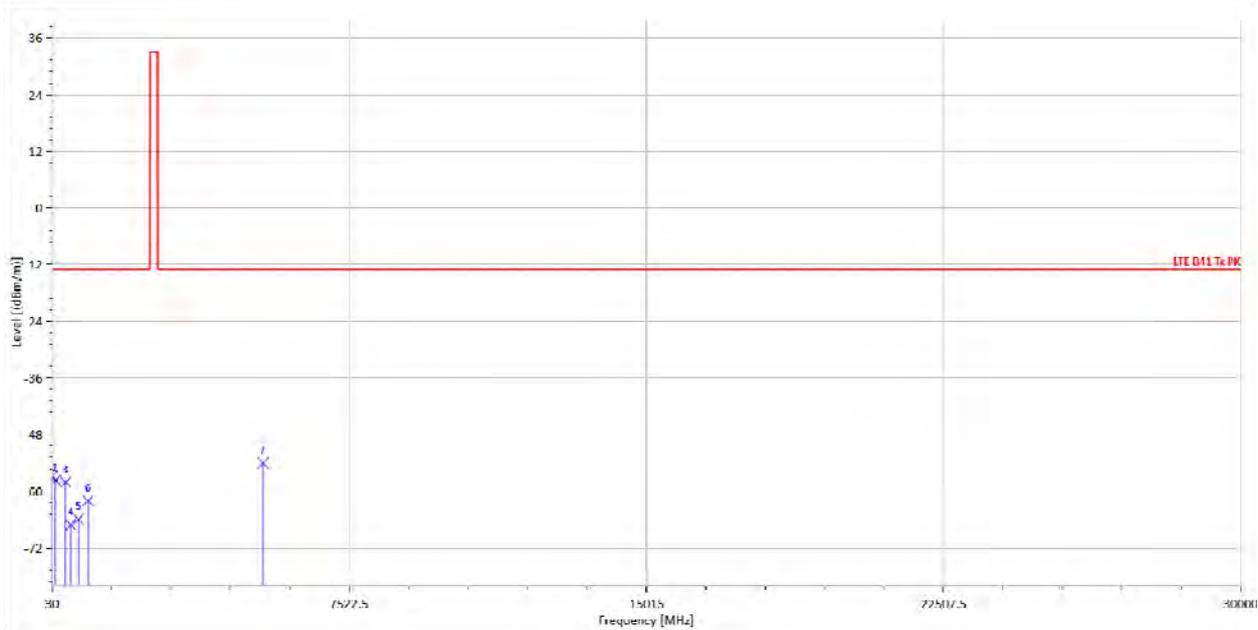
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Operation Mode :	LTEB41 20M QPSK 1.99	Test Date :	2017/8/3
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
31.94	S	-56.82	-37.21	-18.78	-0.83	-13	-43.82
114.39	S	-57.71	-54.78	-1.46	-1.48	-13	-44.71
368.53	S	-58.10	-61.25	5.90	-2.74	-13	-45.10
499.48	S	-67.05	-70.31	6.49	-3.23	-13	-54.05
697.36	S	-65.90	-69.77	7.68	-3.81	-13	-52.90
936.95	S	-62.05	-65.50	7.95	-4.49	-13	-49.05
5347.00	H	-54.04	-56.72	12.85	-10.17	-13	-41.04

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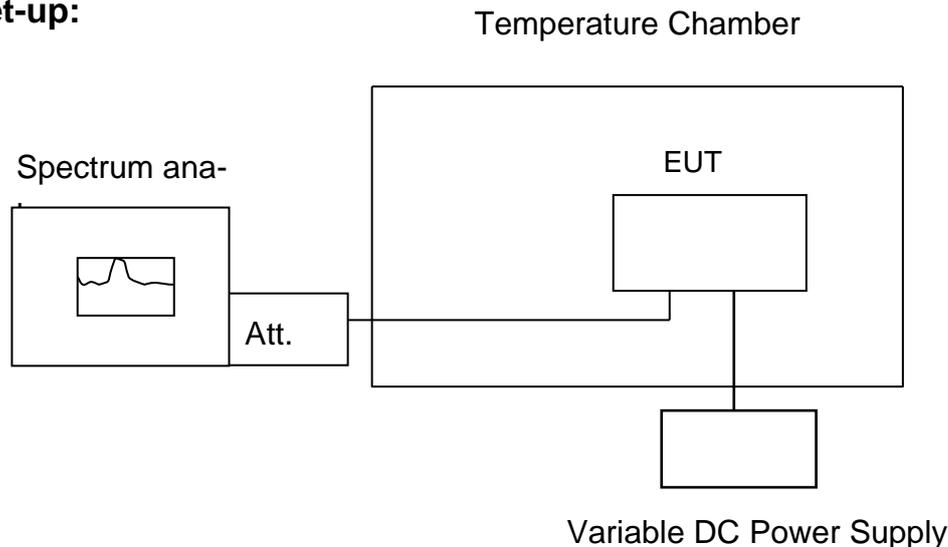
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable:

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

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

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

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#### 11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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	00100A1F1A195C	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	RFLT2W1G18 G	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

#### 11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
4.37	20	836600014	-6.5	2091
3.8	20	836599985	17.5	2091
3.5	20	836599998	-8.1	2091
3.4 (End point)	20	836599991	-16.1	2091
FREQUENCY ERROR vs. Temp.				
3.8	50	836600008	-3.2	2091
3.8	40	836600004	-9.5	2091
3.8	30	836599993	16.6	2091
3.8	20	836599994	18	2091
3.8	10	836600010	-9	2091
3.8	0	836599995	-7.8	2091
3.8	-10	836599993	-5.4	2091
3.8	-20	836600006	0.5	2091
3.8	-30	836600003	7.8	2091

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Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
<b>FREQUENCY ERROR vs. VOLTAGE</b>				
4.37	20	1879999992	1.5	4700
3.8	20	1879999998	15.7	4700
3.5	20	1880000009	-3.5	4700
3.4 (End point)	20	1879999996	-7.9	4700
<b>FREQUENCY ERROR vs. Temp.</b>				
3.8	50	1880000001	18.5	4700
3.8	40	1879999985	-1.7	4700
3.8	30	1879999998	15.1	4700
3.8	20	1880000002	-2.5	4700
3.8	10	1879999990	17.4	4700
3.8	0	1879999996	18.9	4700
3.8	-10	1880000013	17.3	4700
3.8	-20	1879999993	9.9	4700
3.8	-30	1880000003	-14.9	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
<b>FREQUENCY ERROR vs. VOLTAGE</b>				
4.37	20	1879999994	-15.4	4700
3.8	20	1880000012	19.4	4700
3.5	20	1879999994	-19.3	4700
3.4 (End point)	20	1880000010	-15.2	4700
<b>FREQUENCY ERROR vs. Temp.</b>				
Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
3.8	50	1879999996	19.9	4700
3.8	40	1880000010	13.1	4700
3.8	30	1879999990	-12.9	4700
3.8	20	1879999993	19.4	4700
3.8	10	1880000014	-13.2	4700
3.8	0	1879999987	-13.5	4700
3.8	-10	1880000013	5.3	4700
3.8	-20	1880000015	5	4700
3.8	-30	1879999997	4.5	4700

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Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
<b>FREQUENCY ERROR vs. VOLTAGE</b>				
4.37	20	173260012	6.7	4331
3.8	20	173259997	-15.3	4331
3.5	20	173259995	-0.3	4331
3.4 (End point)	20	173260007	-7.8	4331
<b>FREQUENCY ERROR vs. Temp.</b>				
Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
3.8	50	173259995	4.6	4331
3.8	40	173260005	4.1	4331
3.8	30	173260013	-1.5	4331
3.8	20	173259990	2.7	4331
3.8	10	173259990	14.6	4331
3.8	0	173260004	-16.8	4331
3.8	-10	173260000	-4.9	4331
3.8	-20	173259993	-4.9	4331
3.8	-30	173260003	1.7	4331

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
<b>FREQUENCY ERROR vs. VOLTAGE</b>				
4.37	20	836599999	4.5	2091
3.8	20	836600008	-13.1	2091
3.5	20	836600000	-19.1	2091
3.4 (End point)	20	836599986	18.8	2091
<b>FREQUENCY ERROR vs. Temp.</b>				
Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
3.8	50	836599988	-11.2	2091
3.8	40	836600014	-3.8	2091
3.8	30	836599987	-4.9	2091
3.8	20	836599998	-16.8	2091
3.8	10	836600008	-8.4	2091
3.8	0	836599998	8.4	2091
3.8	-10	836600006	12.2	2091
3.8	-20	836600003	0.8	2091
3.8	-30	836600012	-9.8	2091

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Reference Freq.:		LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.37	25	1879.999994	12.2	4700	
3.8	25	1879.999982	0	4700	
3.5	25	1880.000014	32.2	4700	
3.4 (End Point)	25	1879.999995	12.7	4700	
<b>Freq. ERROR vs. Temp.</b>					
3.8	-30	1879.999987	-30.5	4700	
3.8	-20	1880.000002	2.5	4700	
3.8	-10	1879.999985	-32.1	4700	
3.8	0	1880.000009	-8.5	4700	
3.8	10	1879.999985	-32.3	4700	
3.8	20	1880.000018	0	4700	
3.8	30	1880.000001	-16.9	4700	
3.8	40	1880.000011	-6.4	4700	
3.8	50	1879.999986	-32	4700	

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Reference Freq.:		LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.37	25	1732.5	-26.4	4331	
3.8	25	1732.5	0	4331	
3.5	25	1732.5	-22.5	4331	
3.4 (End Point)	25	1732.5	-16	4331	
<b>Freq. ERROR vs. Temp.</b>					
3.8	-30	1732.5	16.7	4331	
3.8	-20	1732.5	2.9	4331	
3.8	-10	1732.5	-10.2	4331	
3.8	0	1732.5	-16.9	4331	
3.8	10	1732.5	-6.7	4331	
3.8	20	1732.5	0	4331	
3.8	30	1732.5	-3.1	4331	
3.8	40	1732.5	15.6	4331	
3.8	50	1732.5	-14.7	4331	

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Reference Freq.:		LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.37	25	836.5000063	-12.2	2091	
3.8	25	836.5000185	0	2091	
3.5	25	836.5000159	-2.6	2091	
3.4 (End Point)	25	836.4999984	-20.1	2091	
<b>Freq. ERROR vs. Temp.</b>					
3.8	-30	836.5000026	18.2	2091	
3.8	-20	836.5000101	25.7	2091	
3.8	-10	836.4999925	8.1	2091	
3.8	0	836.5000077	23.3	2091	
3.8	10	836.4999917	7.3	2091	
3.8	20	836.4999844	0	2091	
3.8	30	836.5000032	18.8	2091	
3.8	40	836.5000102	25.8	2091	
3.8	50	836.5000033	18.9	2091	

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Reference Freq.:		LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.37	25	2535	10.6	6338	
3.8	25	2535	0	6338	
3.5	25	2535	-4.6	6338	
3.4 (End Point)	25	2535	-7.9	6338	
<b>Freq. ERROR vs. Temp.</b>					
3.8	-30	2535	-13.1	6338	
3.8	-20	2535	14.4	6338	
3.8	-10	2535	-19.9	6338	
3.8	0	2535	-9.2	6338	
3.8	10	2535	-18.1	6338	
3.8	20	2535	0	6338	
3.8	30	2535	15.5	6338	
3.8	40	2535	4.3	6338	
3.8	50	2535	-16.7	6338	

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Reference Freq.:		LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.37	25	2595	2.8	6488	
3.8	25	2595	0	6488	
3.5	25	2595	-16.3	6488	
3.4 (End Point)	25	2595	9.2	6488	
<b>Freq. ERROR vs. Temp.</b>					
3.8	-30	2595	2.1	6488	
3.8	-20	2595	-9.7	6488	
3.8	-10	2595	-23.2	6488	
3.8	0	2595	-25.6	6488	
3.8	10	2595	-5.2	6488	
3.8	20	2595	0	6488	
3.8	30	2595	-31	6488	
3.8	40	2595	2.6	6488	
3.8	50	2595	-29	6488	

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Reference Freq.: LTE B41 Mid 2593 MHz 10M QPSK CH 40620 Channel				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
4.37	25	2593.000008	9.9	6488
3.8	25	2592.999998	0	6488
3.5	25	2593.000009	10.7	6488
3.4 (End Point)	25	2592.999997	-1.4	6488
<b>Freq. ERROR vs. Temp.</b>				
3.8	-30	2592.999981	-14.9	6488
3.8	-20	2592.999989	-6.7	6488
3.8	-10	2593.000008	12	6488
3.8	0	2593.000001	5.5	6488
3.8	10	2592.999998	-15.5	6488
3.8	20	2592.999996	0	6488
3.8	30	2592.999988	-7.8	6488
3.8	40	2592.999997	1.1	6488
3.8	50	2592.999989	-6.4	6488

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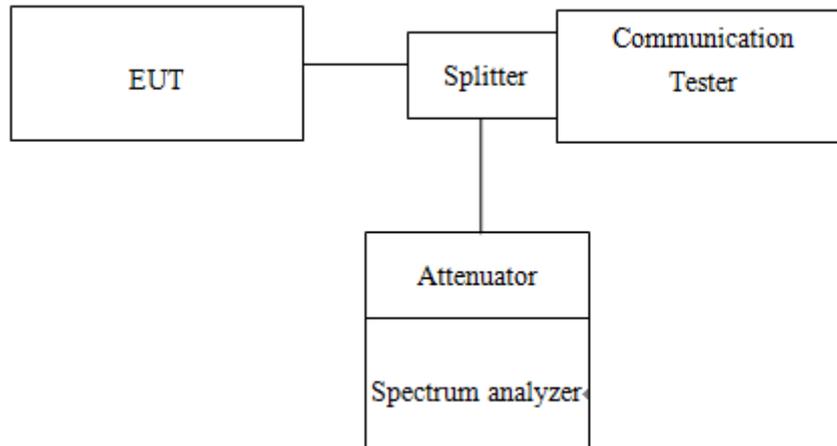
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## 12. PEAK TO AVERAGE RATIO

### 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	00100A1F1A195C	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	RFLT2W1G18G	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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## 12.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)			Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 850	GPRS 850	EDGE 850			GSM 1900	GPRS 1900	EDGE 1900
824.2	128	-	9.91	10.92	1850.2	512	-	9.34	9.79
836.6	190	-	9.54	9.89	1880	661	-	9.34	10.55
848.8	251	-	9.23	9.94	1909.8	810	-	10.03	10.13

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)			Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II			WCDMA IV	HSDPA IV	HSUPA IV
1852.4	9262	3.08	3.98	3.57	1712.4	1312	3.08	3.69	3.71
1880	9400	2.87	4.12	4.02	1732.6	1413	3.07	3.42	3.61
1907.6	9538	3.08	4.08	3.71	1752.6	1513	3.02	3.74	3.73

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.07	3.99	3.72
836.6	4183	3.07	3.79	3.98
846.6	4233	3.00	3.79	3.90

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.09	13	1851.5	18615	6.06	13
1880.0	18900	6.10	13	1880.0	18900	5.98	13
1909.3	19193	6.13	13	1908.5	19185	6.01	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1852.5	18625	5.97	13	1855.0	18650	6.03	13
1880.0	18900	5.99	13	1880.0	18900	6.04	13
1907.5	19175	5.99	13	1905.0	19150	5.99	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.87	13	1860.0	18700	7.18	13
1880.0	18900	6.70	13	1880.0	18900	7.22	13
1902.5	19125	6.68	13	1900.0	19100	6.99	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.04	13	1711.5	19965	6.04	13
1732.5	20175	6.09	13	1732.5	20175	6.07	13
1754.3	20393	6.16	13	1753.5	20385	6.07	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1712.5	19957	5.95	13	1715.0	20000	5.96	13
1732.5	20175	6.09	13	1732.5	20175	5.94	13
1752.5	20375	6.04	13	1750.0	20350	6.04	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
1717.5	20025	6.79	13	1720.0	20050	7.13	13
1732.5	20175	6.65	13	1732.5	20175	7.05	13
1747.5	20325	6.72	13	1745.0	20300	7.11	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
824.7	20407	6.10	13	825.5	20415	6.07	13
836.5	20525	6.16	13	836.5	20525	6.06	13
848.3	20643	6.05	13	847.5	20635	6.04	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
826.5	20425	6.04	13	829.0	20450	6.01	13
836.5	20525	5.99	13	836.5	20525	6.01	13
846.5	20625	5.95	13	844.0	20600	6.02	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2502.5	20775	5.87	13	2505.0	20800	5.94	13
2535.0	21100	6.05	13	2535.0	21100	5.99	13
2567.5	21375	5.89	13	2565.0	21350	5.98	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.56	13	2510	20850	7.16	13
2535	21100	6.64	13	2535	21100	6.99	13
2562.5	21375	6.63	13	2560	21350	7.03	13

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2572.5	37775	10.31	13	2575	37800	10.48	13
2595	38000	10.64	13	2595	38000	8.52	13
2617.5	38225	10.72	13	2615	38200	8.76	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2577.5	37825	11.66	13	2580.0	37850	9.98	13
2595	38000	8.71	13	2595.0	38000	11.48	13
2612.5	38175	9.33	13	2610.0	38150	10.86	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2498.5	39675	9.49	13	2501.0	39700	8.74	13
2593.0	40620	9.88	13	2593.0	40620	10.47	13
2687.5	41565	8.79	13	2685.0	41540	8.65	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		64QAM	Limit			64QAM	Limit
2503.5	39725	10.41	13	2506.0	39750	9.29	13
2593.0	40620	10.81	13	2593.0	40620	10.32	13
2682.5	41515	8.50	13	2680.0	41490	9.04	13

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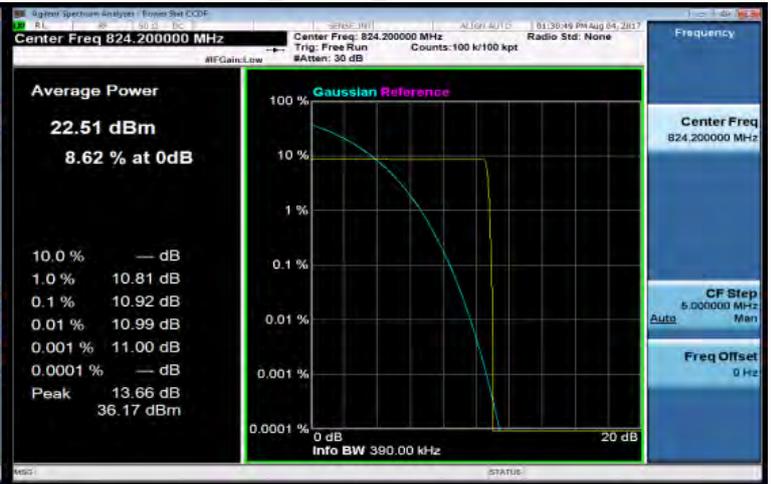
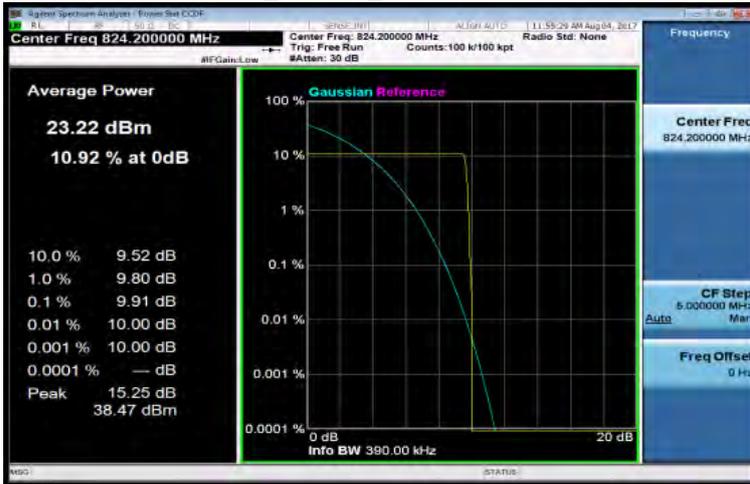
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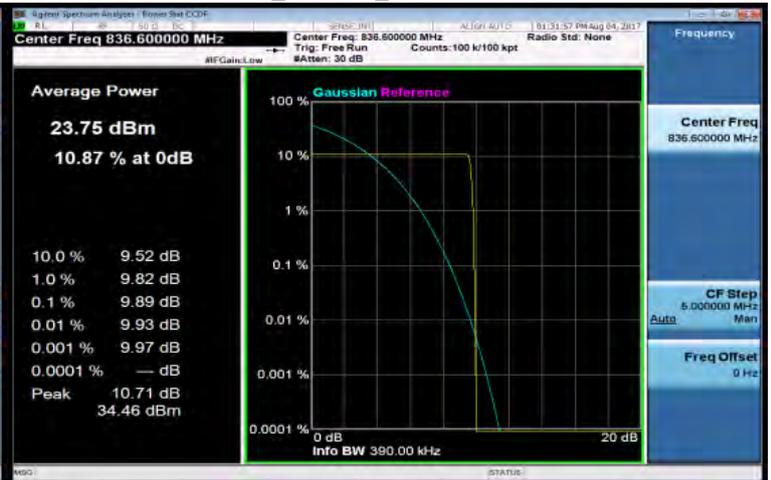
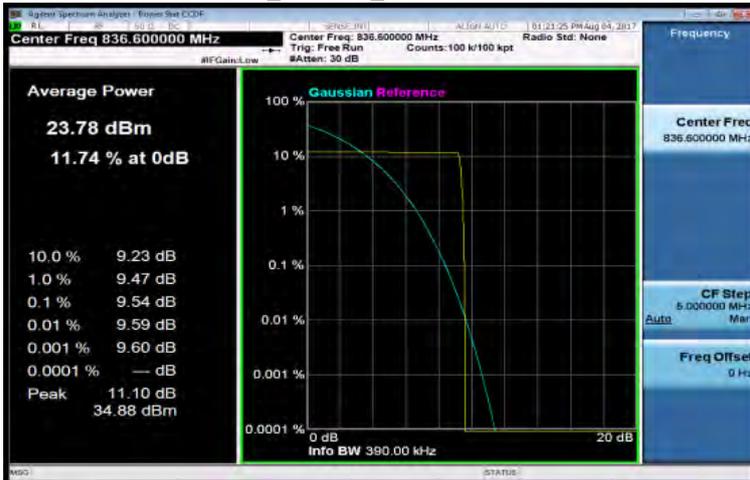
GPRS\_850MHz\_LowCH128-824.2

EDGE\_850MHz\_LowCH128-824.2



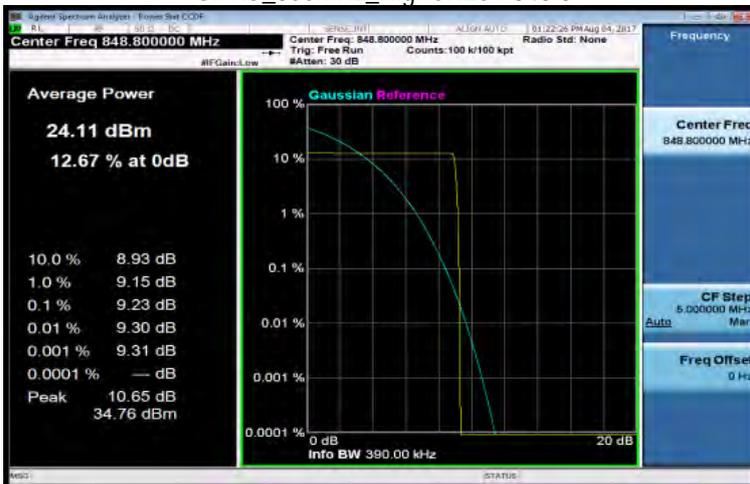
GPRS\_850MHz\_MidCH190-836.6

EDGE\_850MHz\_MidCH190-836.6



GPRS\_850MHz\_HighCH251-848.8

EDGE\_850MHz\_HighCH251-848.8



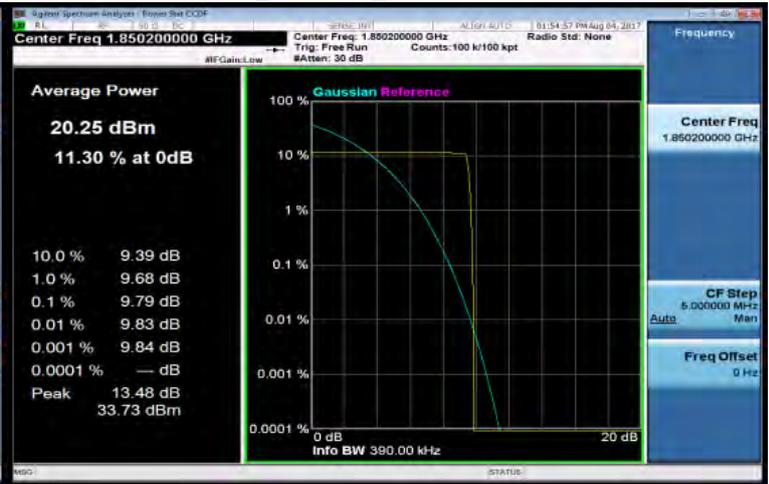
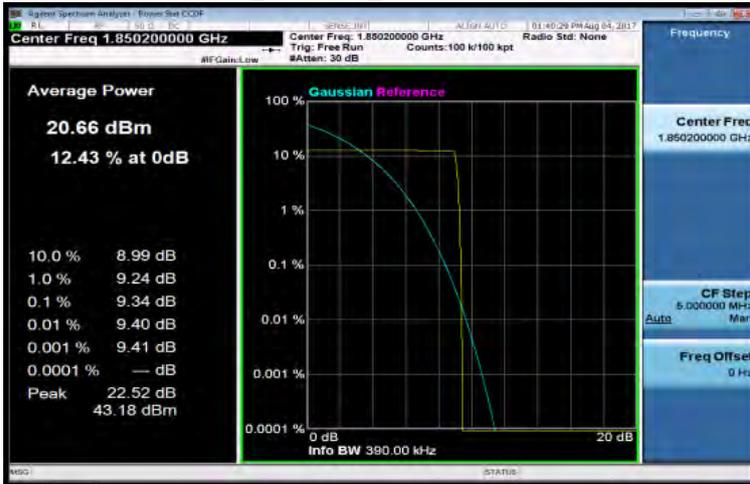
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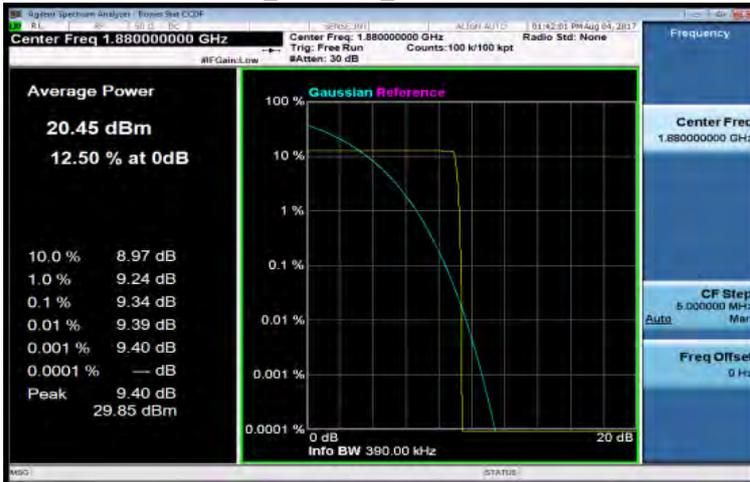
GPRS\_1900MHz\_LowCH512-1850.2

EDGE\_1900MHz\_LowCH512-1850.2



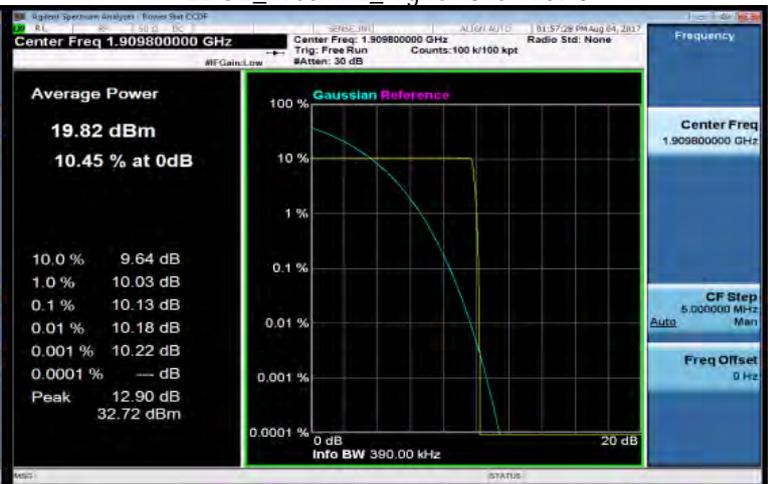
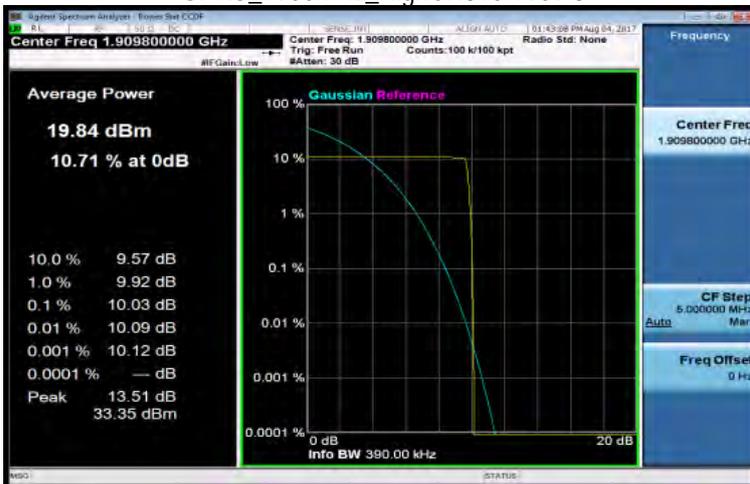
GPRS\_1900MHz\_MidCH661-1880

EDGE\_1900MHz\_MidCH661-1880



GPRS\_1900MHz\_HighCH810-1909.8

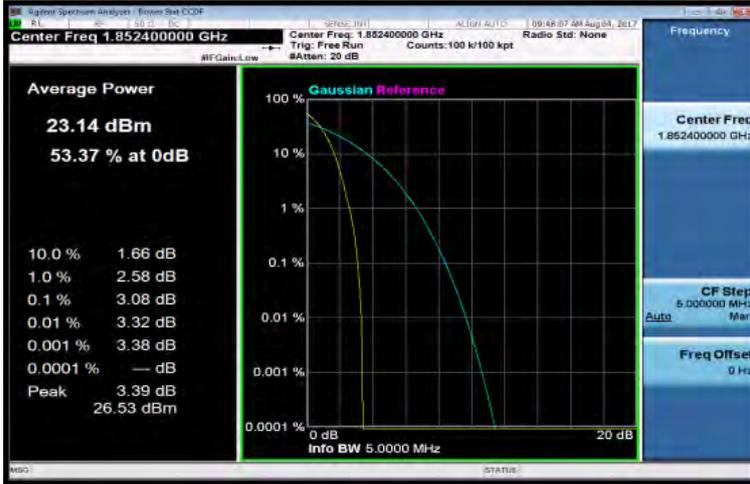
EDGE\_1900MHz\_HighCH810-1909.8



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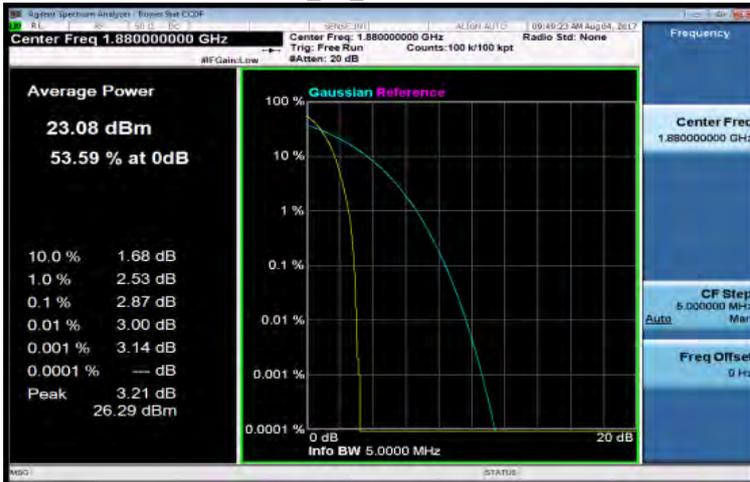
WCDMA\_B2\_LowCH9262-1852.4



HSDPA\_B2\_LowCH9262-1852.4



WCDMA\_B2\_MidCH9400-1880



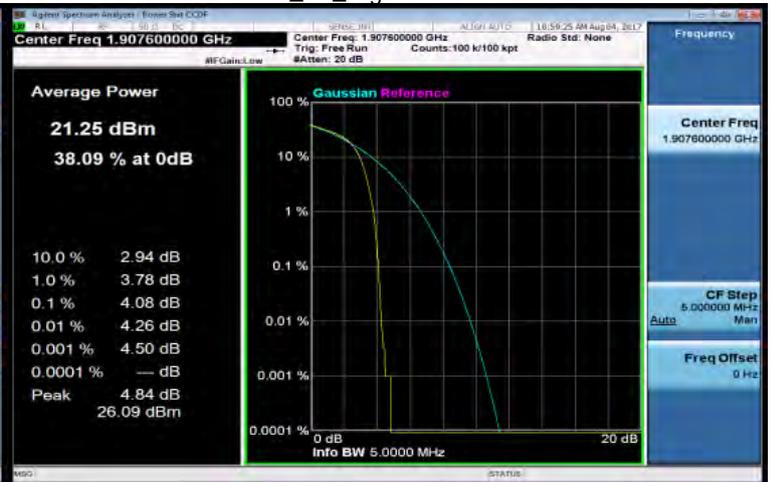
HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6

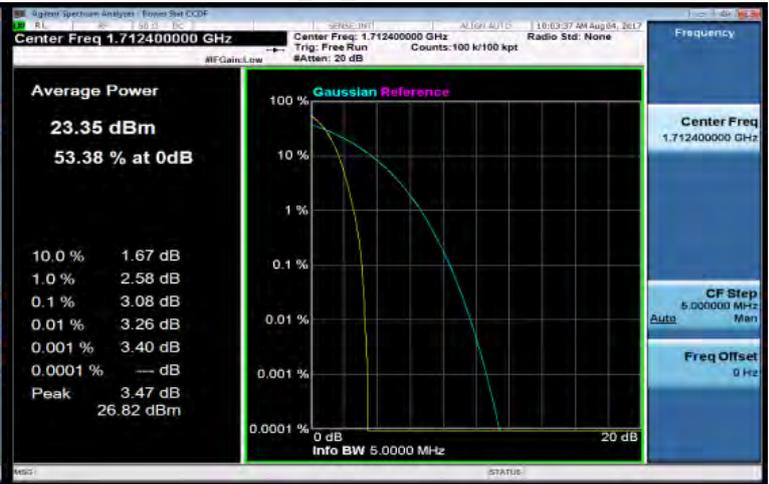
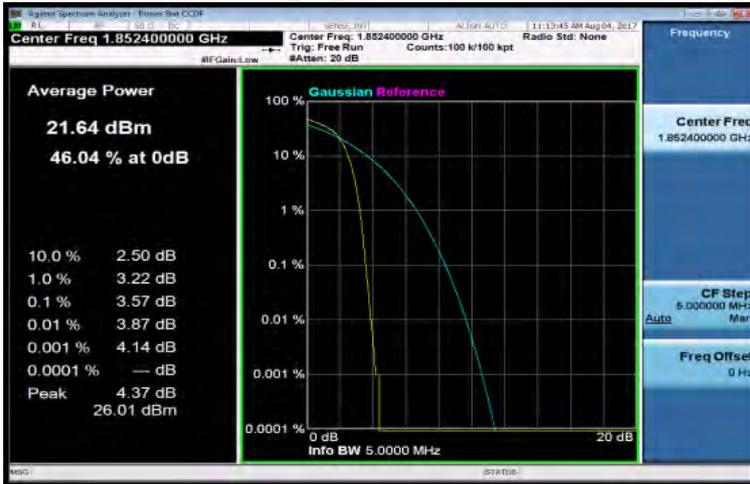


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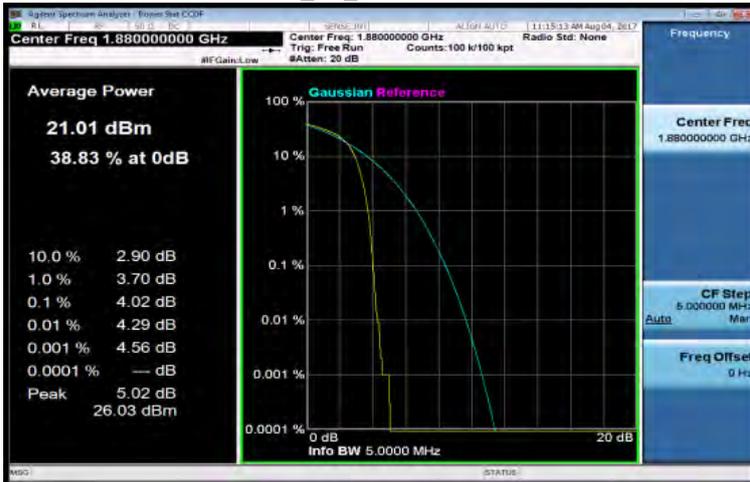
HSUPA\_B2\_LowCH9262-1852.4

WCDMA\_B4\_LowCH1312-1712.4



HSUPA\_B2\_MidCH9400-1880

WCDMA\_B4\_MidCH1413-1732.6



HSUPA\_B2\_HighCH9538-1907.6

WCDMA\_B4\_HighCH1513-1752.6

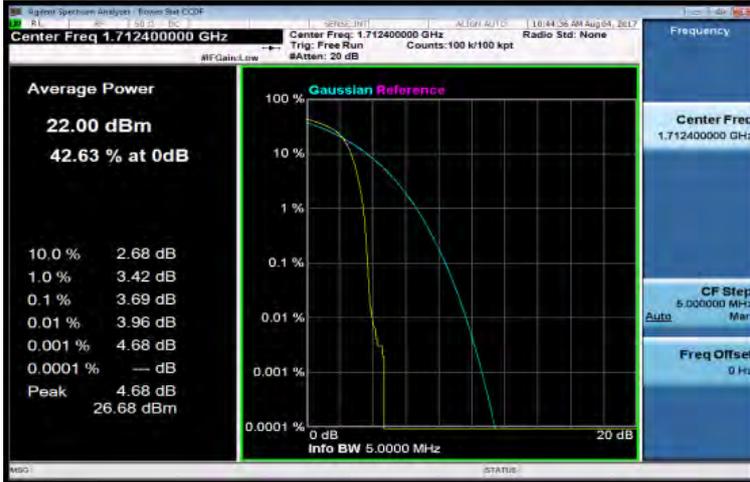


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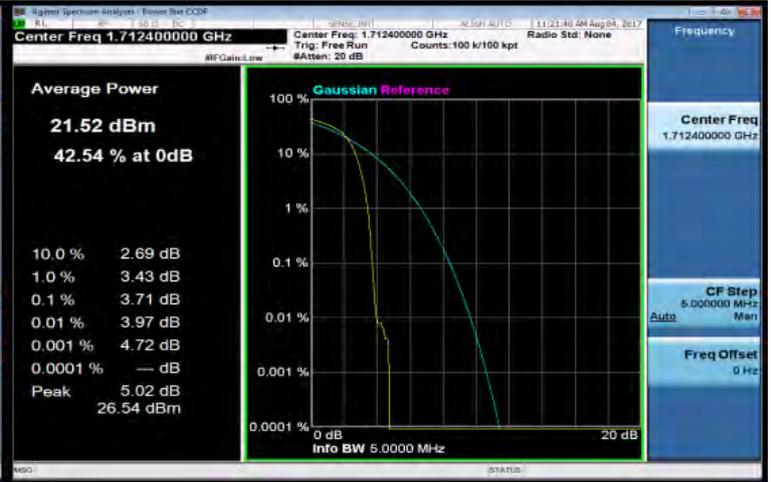
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HSDPA\_B4\_LowCH1312-1712.4



HSUPA\_B4\_LowCH1312-1712.4



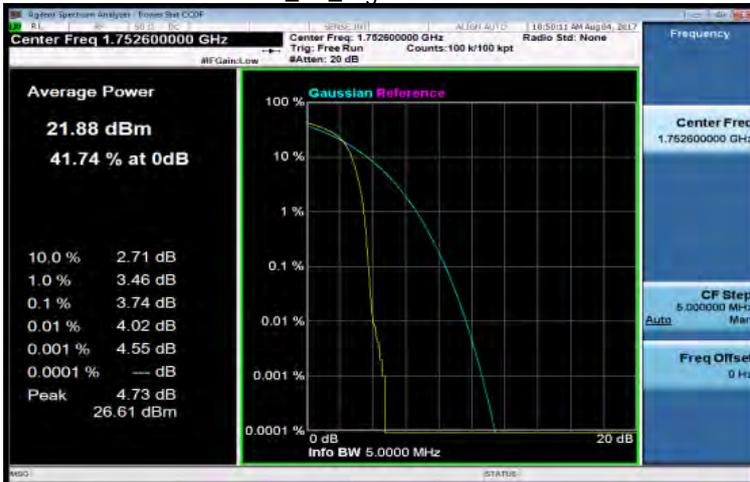
HSDPA\_B4\_MidCH1413-1732.6



HSUPA\_B4\_MidCH1413-1732.6



HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



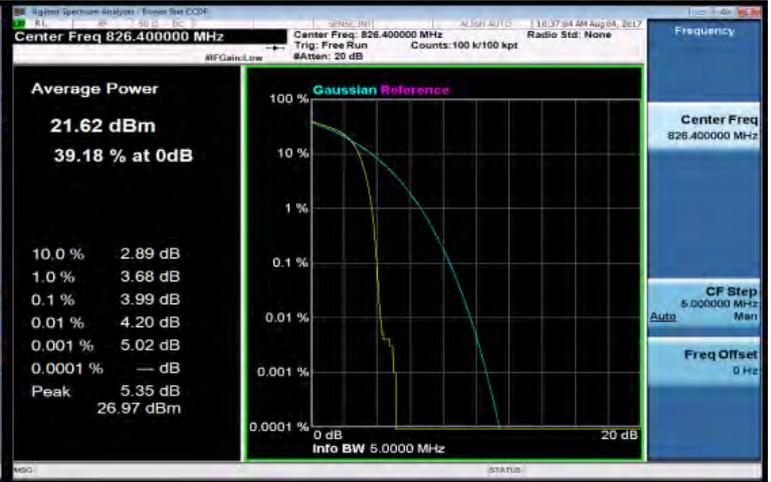
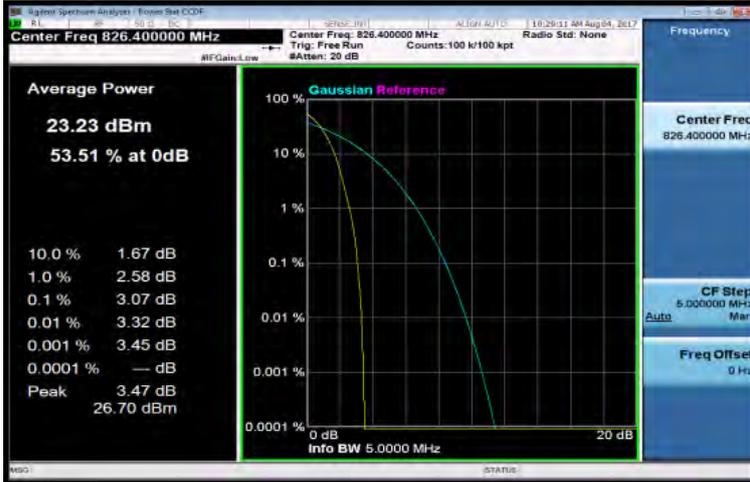
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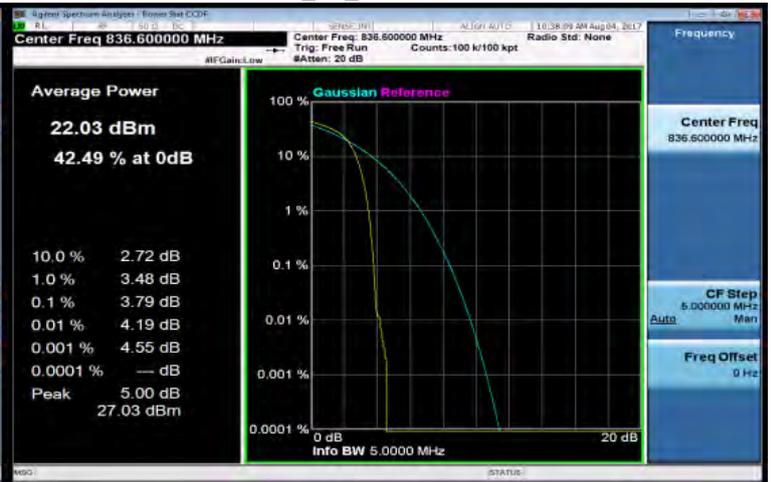
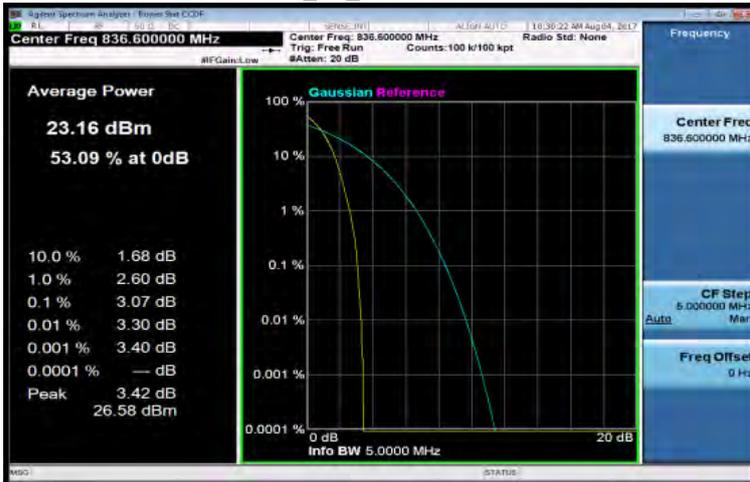
WCDMA\_B5\_LowCH4132-826.4

HSDPA\_B5\_LowCH4132-826.4



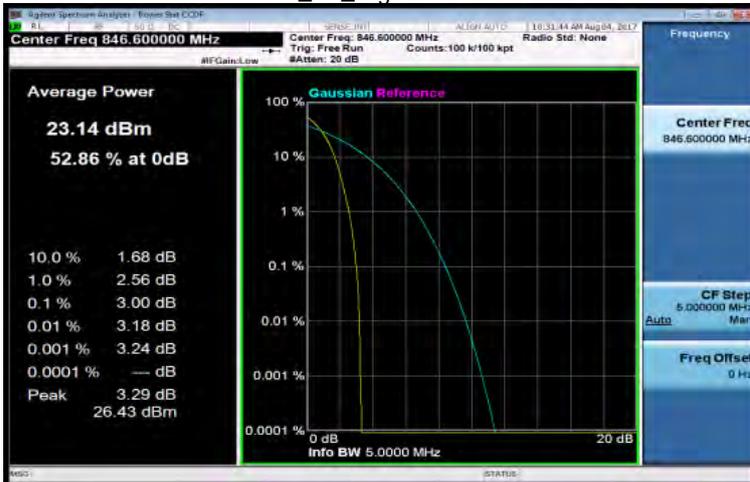
WCDMA\_B5\_MidCH4183-836.6

HSDPA\_B5\_MidCH4183-836.6



WCDMA\_B5\_HighCH4233-846.6

HSDPA\_B5\_HighCH4233-846.6

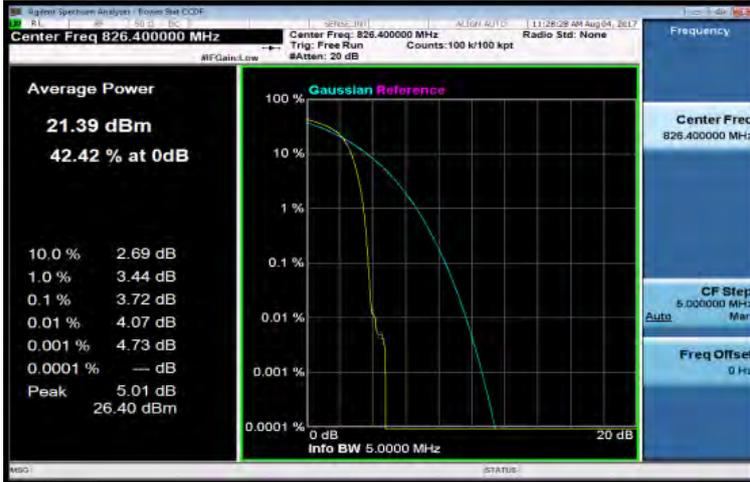


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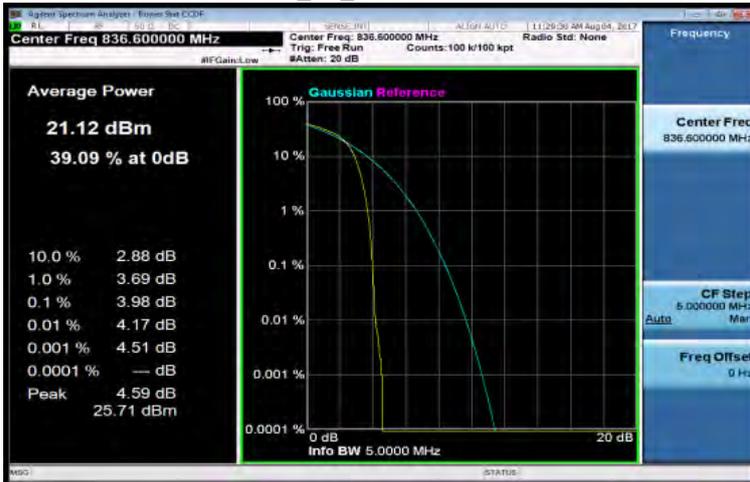
HSUPA\_B5\_LowCH4132-826.4

LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_LowCH18607-1850.7



HSUPA\_B5\_MidCH4183-836.6

LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_MidCH18900-1880



HSUPA\_B5\_HighCH4233-846.6

LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_HighCH19193-1909.3



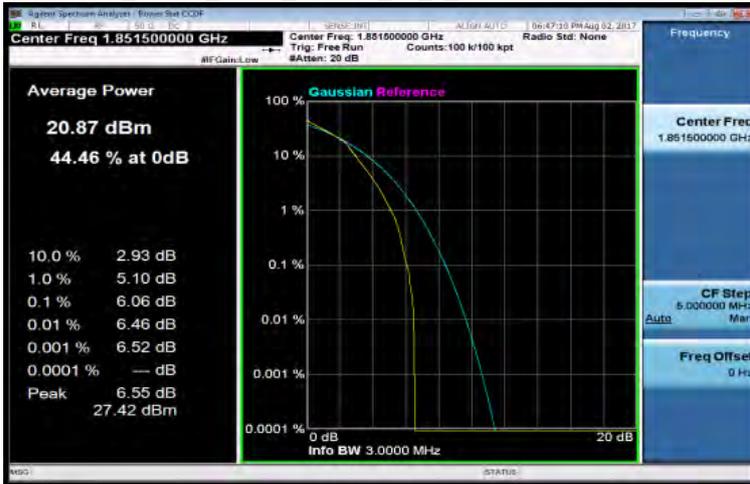
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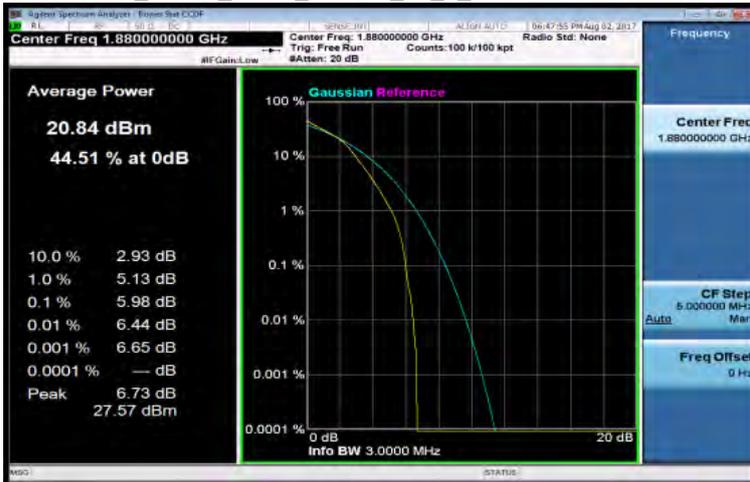
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LTE\_Band2\_5MHz\_64QAM\_25\_0\_LowCH18625-1852.5



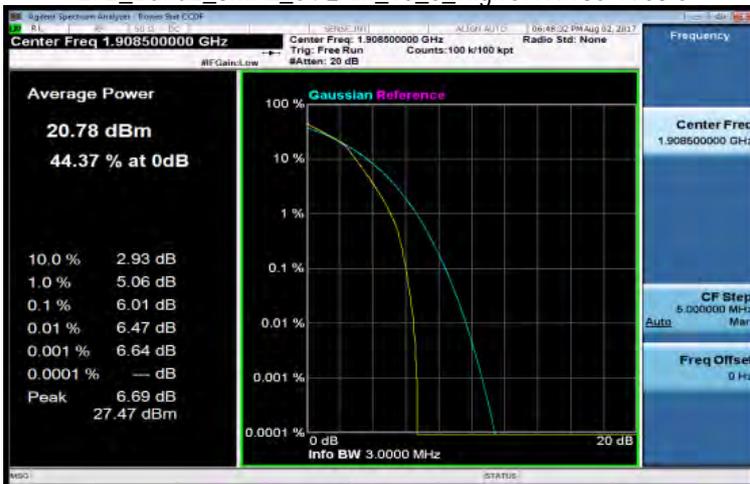
LTE\_Band2\_3MHz\_64QAM\_15\_0\_MidCH18900-1880

LTE\_Band2\_5MHz\_64QAM\_25\_0\_MidCH18900-1880



LTE\_Band2\_3MHz\_64QAM\_15\_0\_HighCH19185-1908.5

LTE\_Band2\_5MHz\_64QAM\_25\_0\_HighCH19175-1907.5



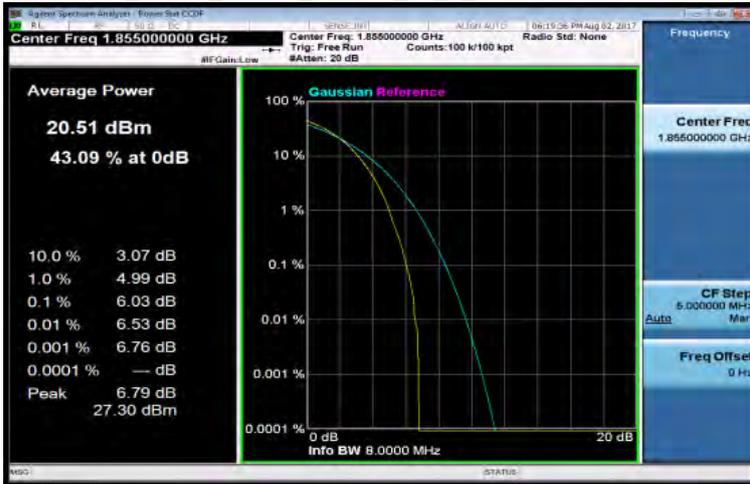
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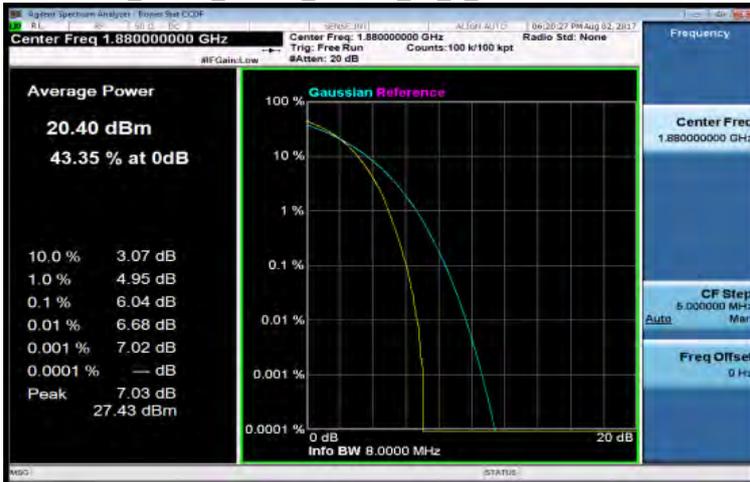
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LTE\_Band2\_15MHz\_64QAM\_75\_0\_LowCH18675-1857.5



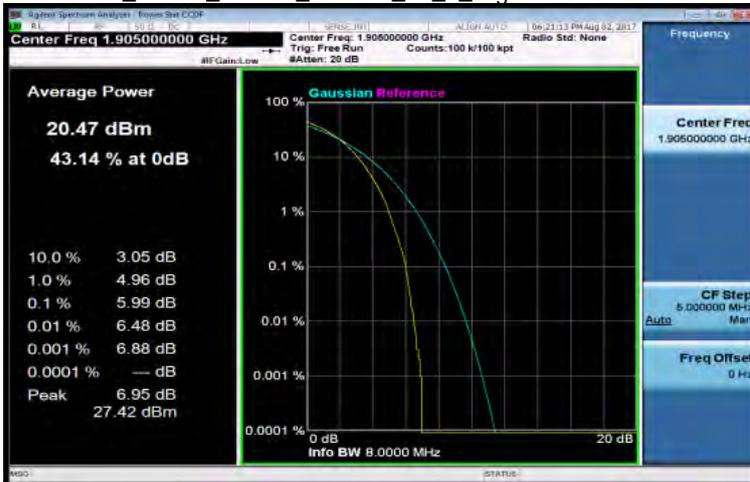
LTE\_Band2\_10MHz\_64QAM\_50\_0\_MidCH18900-1880

LTE\_Band2\_15MHz\_64QAM\_75\_0\_MidCH18900-1880



LTE\_Band2\_10MHz\_64QAM\_50\_0\_HighCH19150-1905

LTE\_Band2\_15MHz\_64QAM\_75\_0\_HighCH19125-1902.5



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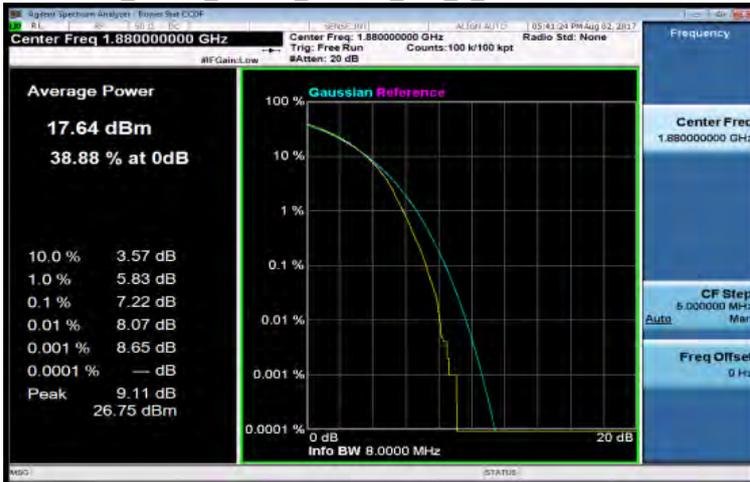
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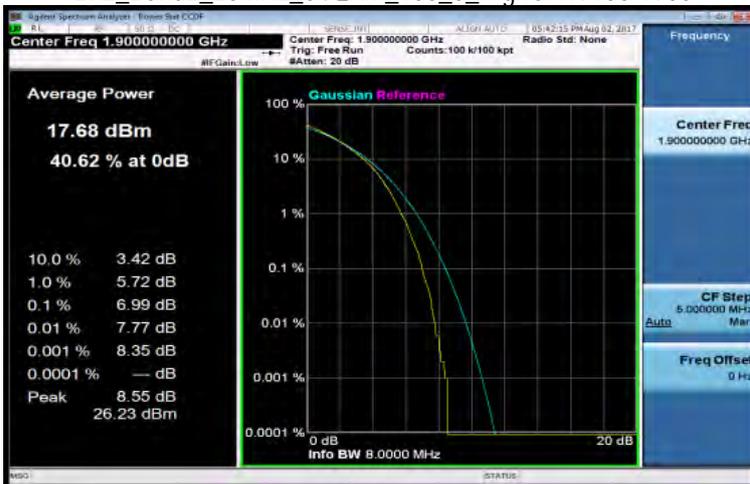
LTE\_Band2\_20MHz\_64QAM\_100\_0\_MidCH18900-1880

LTE\_Band4\_1\_4MHz\_64QAM\_6\_0\_MidCH20175-1732.5



LTE\_Band2\_20MHz\_64QAM\_100\_0\_HighCH19100-1900

LTE\_Band4\_1\_4MHz\_64QAM\_6\_0\_HighCH20393-1754.3



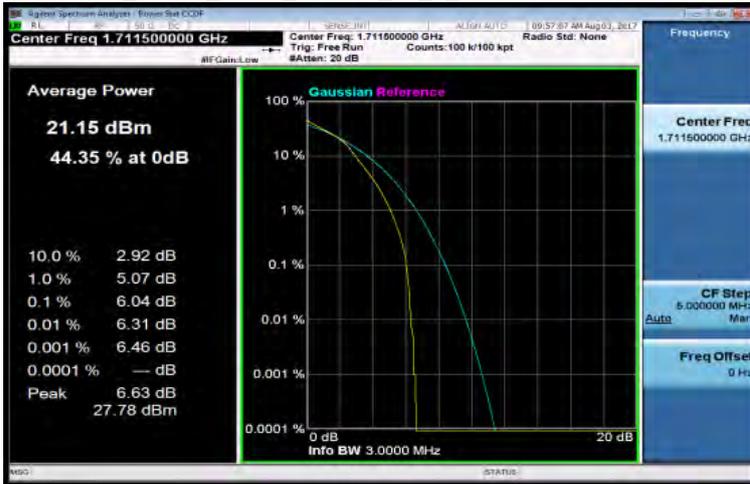
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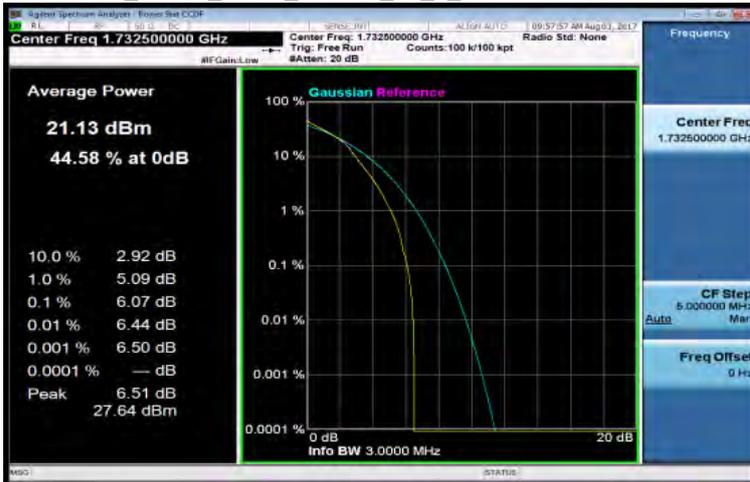
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LTE\_Band4\_5MHz\_64QAM\_25\_0\_LowCH19975-1712.5



LTE\_Band4\_3MHz\_64QAM\_15\_0\_MidCH20175-1732.5

LTE\_Band4\_5MHz\_64QAM\_25\_0\_MidCH20175-1732.5



LTE\_Band4\_3MHz\_64QAM\_15\_0\_HighCH20385-1753.5

LTE\_Band4\_5MHz\_64QAM\_25\_0\_HighCH20375-1752.5



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LTE\_Band4\_15MHz\_64QAM\_75\_0\_LowCH20025-1717.5



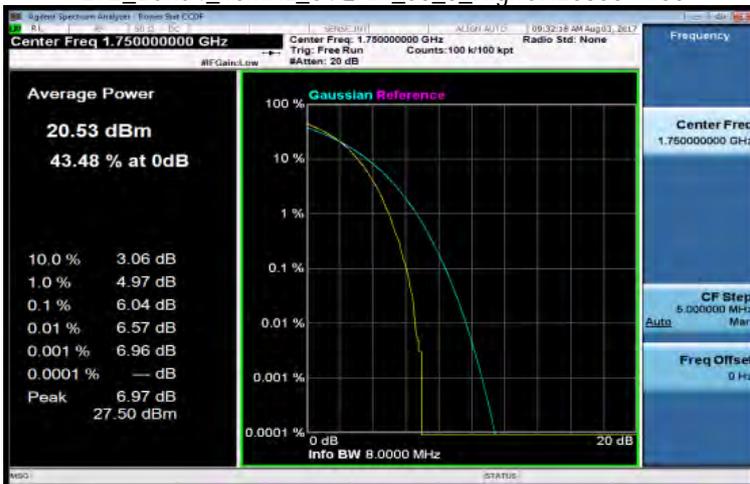
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LTE\_Band4\_15MHz\_64QAM\_75\_0\_MidCH20175-1732.5



LTE\_Band4\_10MHz\_64QAM\_50\_0\_HighCH20350-1750

LTE\_Band4\_15MHz\_64QAM\_75\_0\_HighCH20325-1747.5



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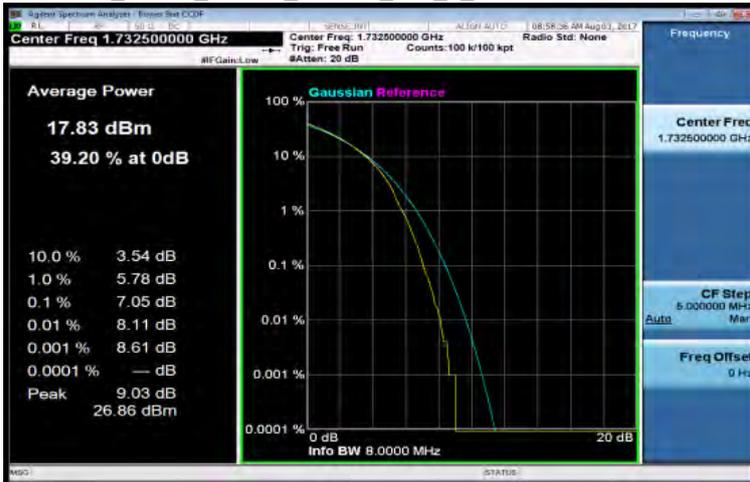
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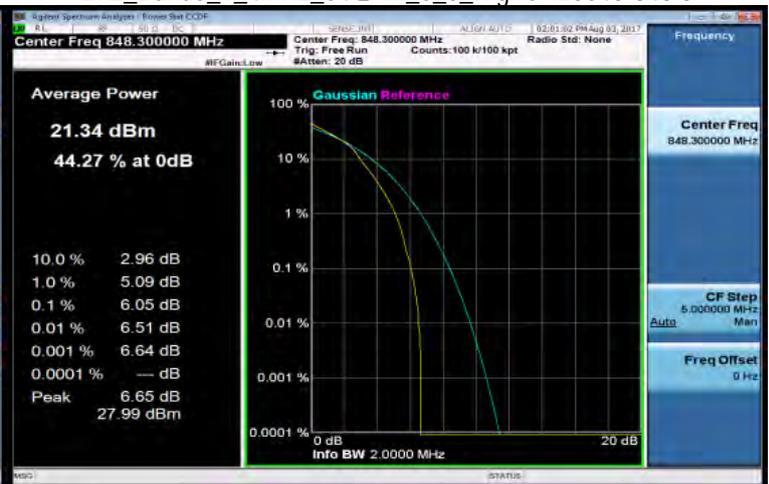
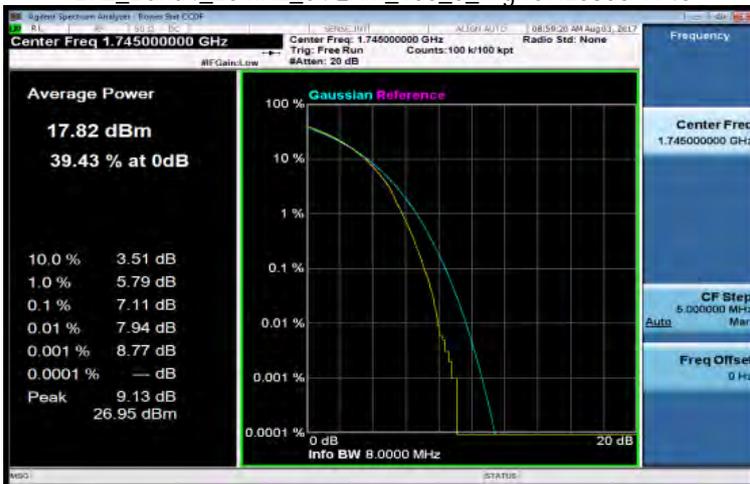
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LTE\_Band5\_1\_4MHz\_64QAM\_6\_0\_MidCH20525-836.5



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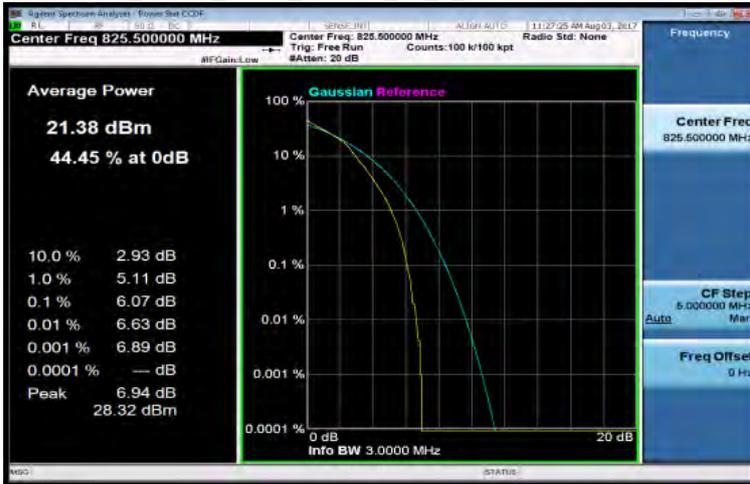


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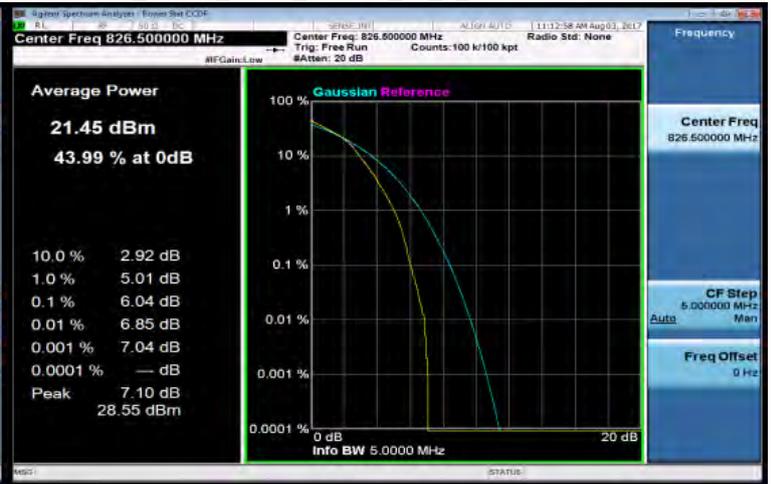
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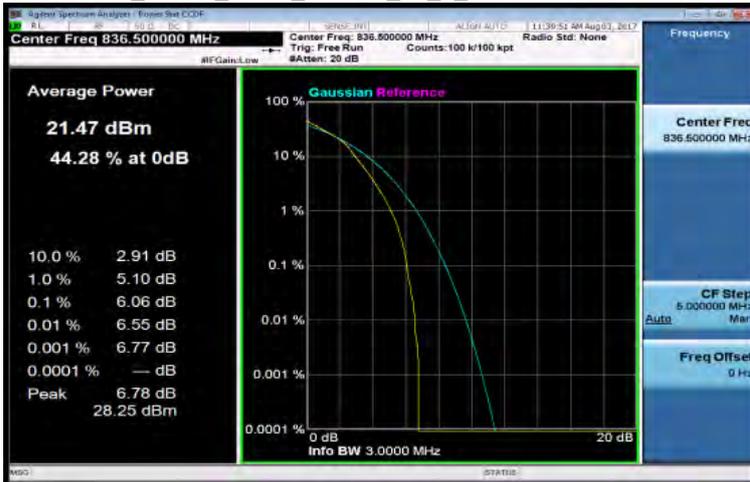
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LTE\_Band5\_5MHz\_64QAM\_25\_0\_LowCH20425-826.5



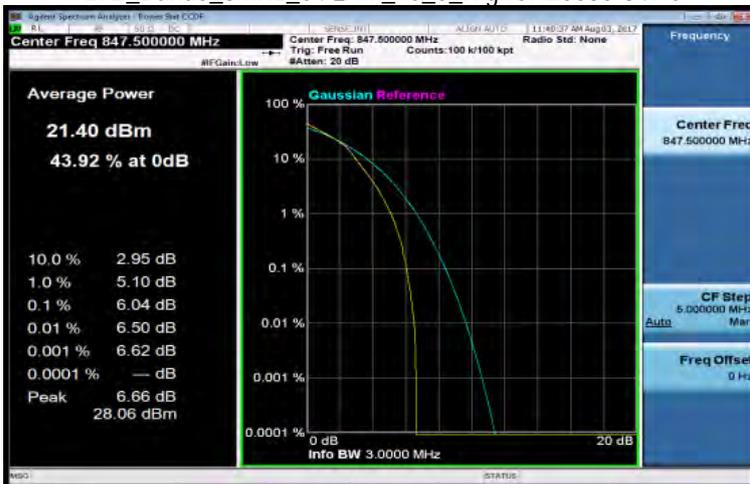
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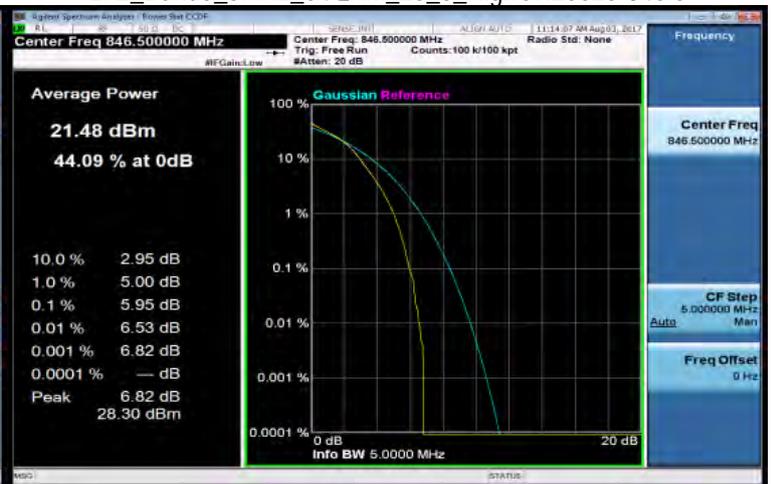
LTE\_Band5\_5MHz\_64QAM\_25\_0\_MidCH20525-836.5



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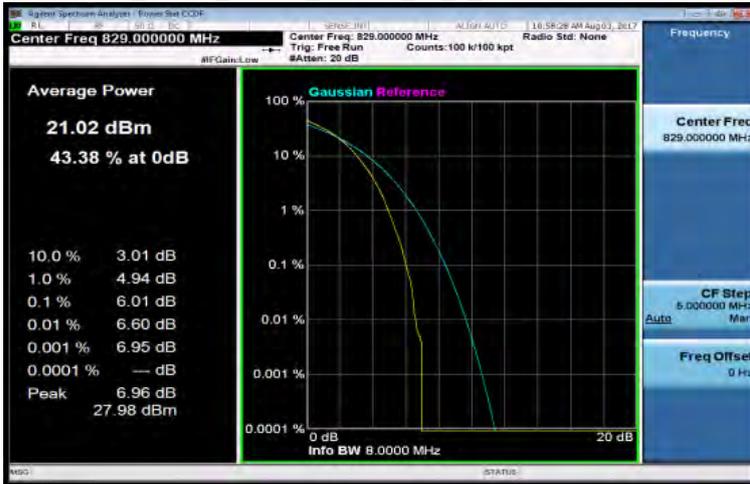


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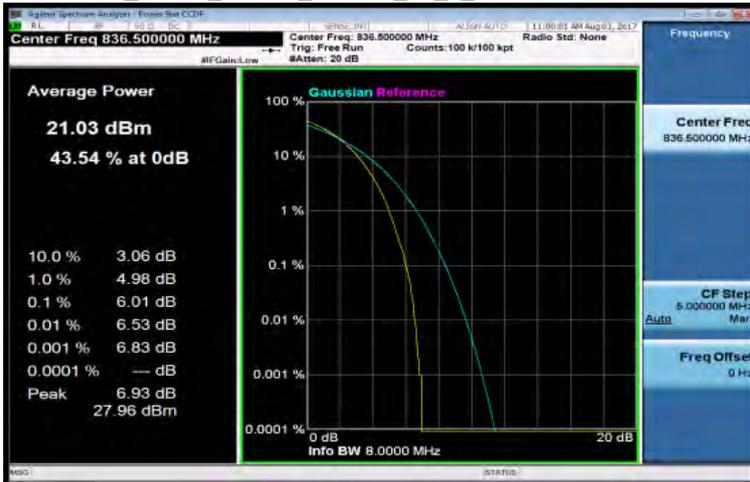
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LTE\_Band7\_5MHz\_64QAM\_25\_0\_LowCH20775-2502.5



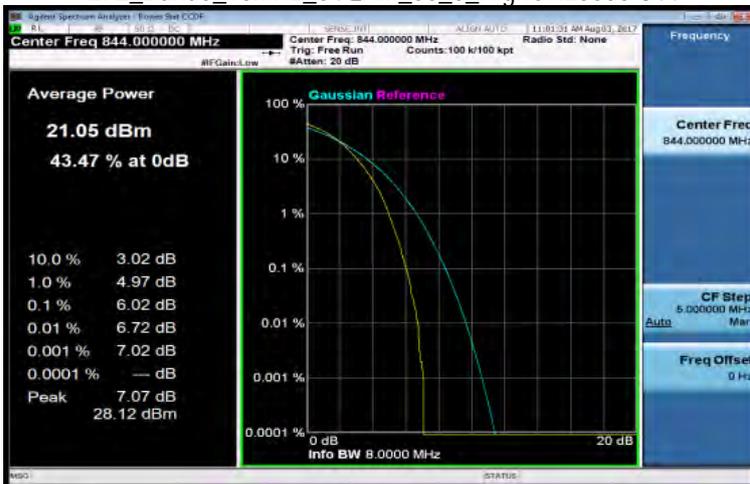
LTE\_Band5\_10MHz\_64QAM\_50\_0\_MidCH20525-836.5

LTE\_Band7\_5MHz\_64QAM\_25\_0\_MidCH21100-2535



LTE\_Band5\_10MHz\_64QAM\_50\_0\_HighCH20600-844

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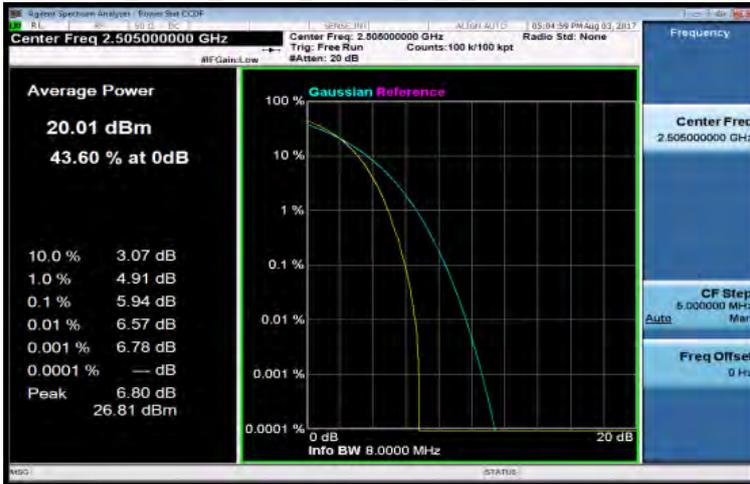


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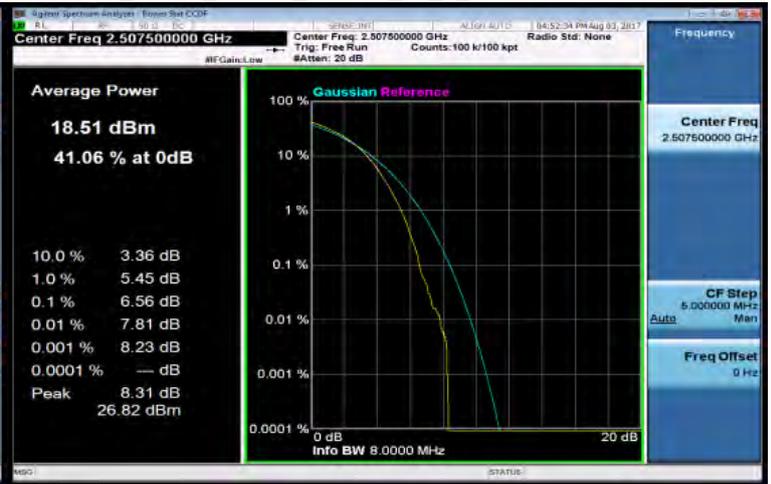
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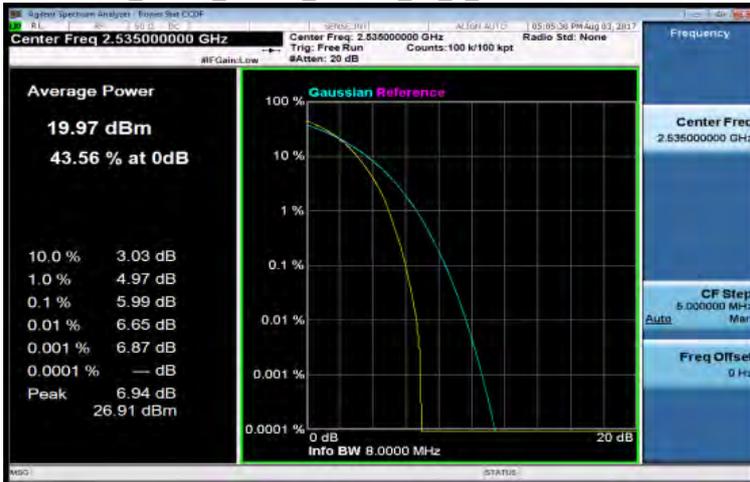
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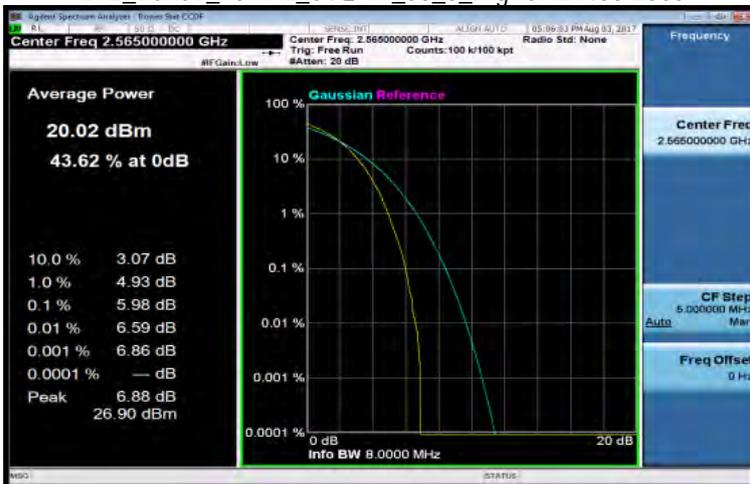
LTE\_Band7\_10MHz\_64QAM\_50\_0\_MidCH21100-2535



LTE\_Band7\_15MHz\_64QAM\_75\_0\_MidCH21100-2535



LTE\_Band7\_10MHz\_64QAM\_50\_0\_HighCH21400-2565



LTE\_Band7\_15MHz\_64QAM\_75\_0\_HighCH21375-2562.5



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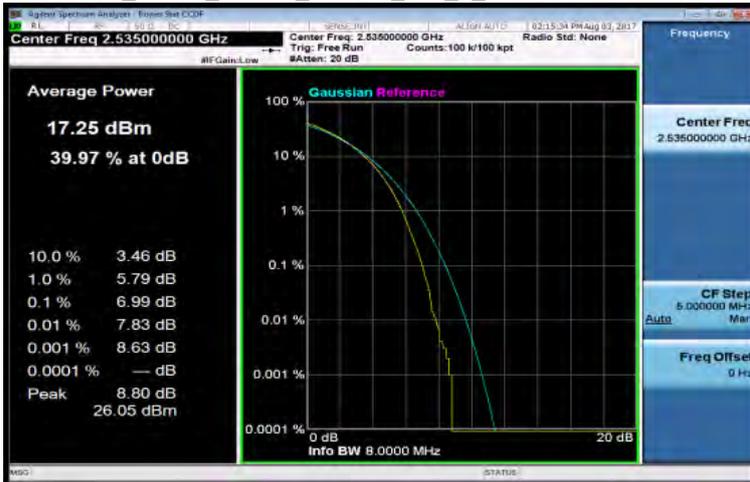
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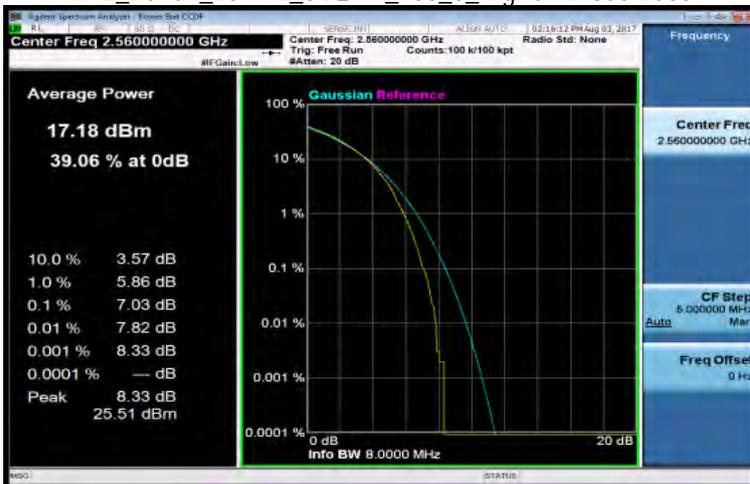
LTE\_Band7\_20MHz\_64QAM\_100\_0\_MidCH21100-2535

LTE\_Band38\_5MHz\_64QAM\_25\_0\_MidCH38000-2595



LTE\_Band7\_20MHz\_64QAM\_100\_0\_HighCH21350-2560

LTE\_Band38\_5MHz\_64QAM\_25\_0\_HighCH38225-2617.5



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LTE\_Band38\_10MHz\_64QAM\_50\_0\_LowCH37800-2575

LTE\_Band38\_15MHz\_64QAM\_75\_0\_LowCH37825-2577.5



LTE\_Band38\_10MHz\_64QAM\_50\_0\_MidCH38000-2595

LTE\_Band38\_15MHz\_64QAM\_75\_0\_MidCH38000-2595



LTE\_Band38\_10MHz\_64QAM\_50\_0\_HighCH38200-2615

LTE\_Band38\_15MHz\_64QAM\_75\_0\_HighCH38175-2612.5



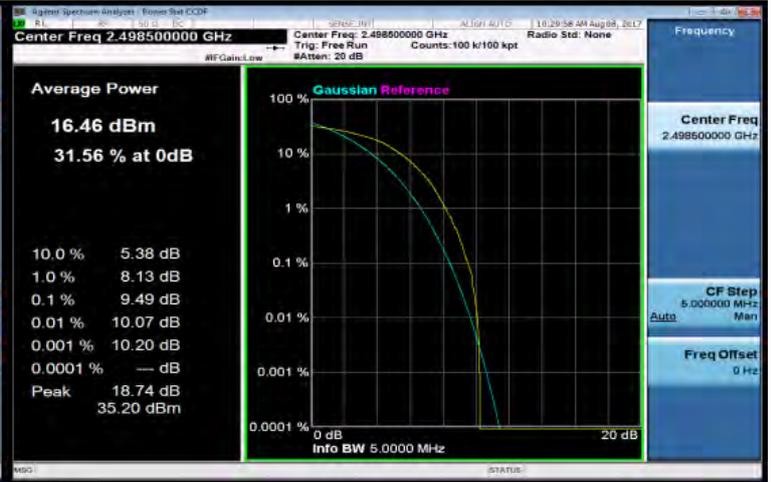
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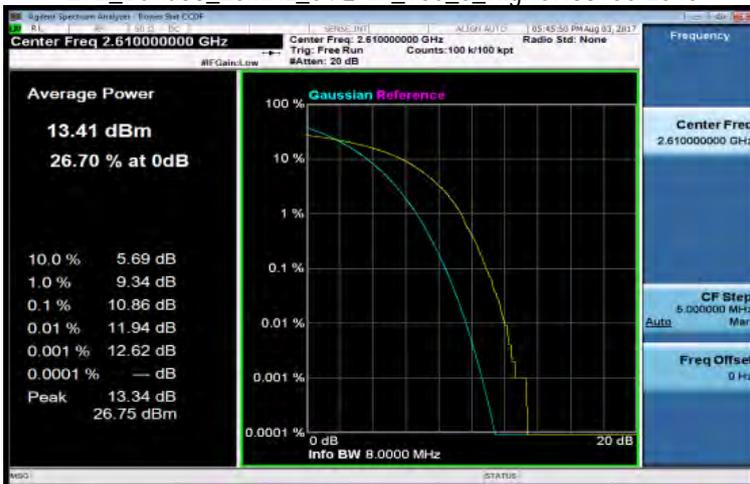
LTE\_Band38\_20MHz\_64QAM\_100\_0\_MidCH38000-2595

LTE\_Band41\_5MHz\_64QAM\_25\_0\_Mid CH40620-2593



LTE\_Band38\_20MHz\_64QAM\_100\_0\_HighCH38150-2610

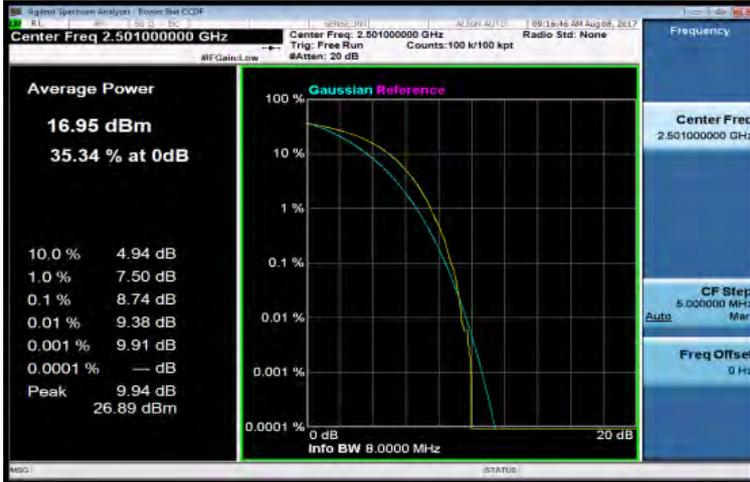
LTE\_Band41\_5MHz\_64QAM\_25\_0\_High CH41565-2687.5



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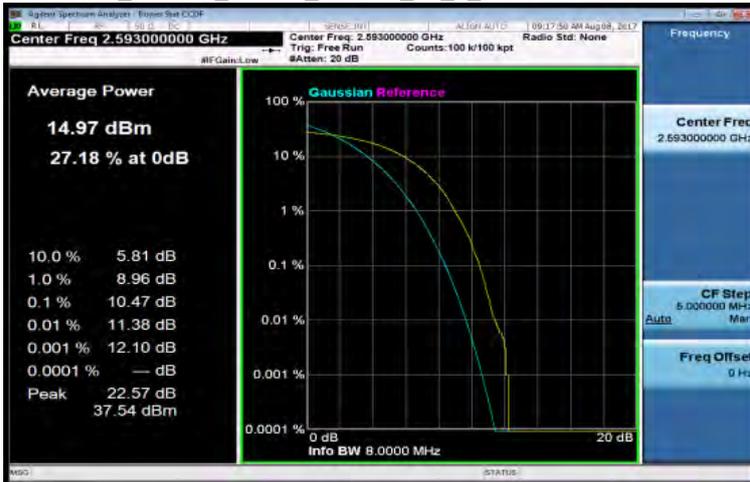
LTE\_Band41\_10MHz\_64QAM\_50\_0\_Low CH39700-2501



LTE\_Band41\_15MHz\_64QAM\_75\_0\_Low CH39725-2503.5



LTE\_Band41\_10MHz\_64QAM\_50\_0\_Mid CH40620-2593



LTE\_Band41\_15MHz\_64QAM\_75\_0\_Mid CH40620-2593



LTE\_Band41\_10MHz\_64QAM\_50\_0\_High CH41540-2685



LTE\_Band41\_15MHz\_64QAM\_75\_0\_High CH41515-2682.5



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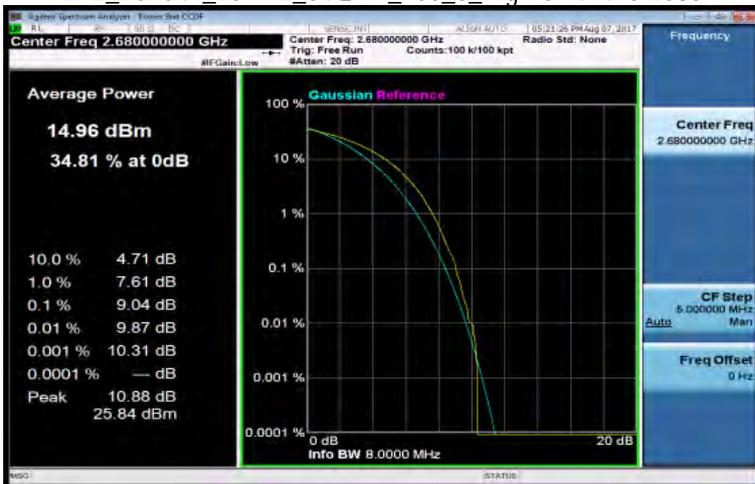
LTE\_Band41\_20MHz\_64QAM\_100\_0\_Low CH39750-2506



LTE\_Band41\_20MHz\_64QAM\_100\_0\_Mid CH40620-2593



LTE\_Band41\_20MHz\_64QAM\_100\_0\_High CH41490-2680



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