

Band17\_10MHz\_QPSK\_1\_0\_LowCH23780-709



Band17\_10MHz\_QPSK\_50\_0\_HighCH23800-711



Band17\_10MHz\_QPSK\_1\_49\_HighCH23800-711



Band17\_10MHz\_QPSK\_50\_0\_LowCH23780-709



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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  $43 + 10 \log_{10}(p)$  (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  $55 + 10 \log_{10}(p)$  (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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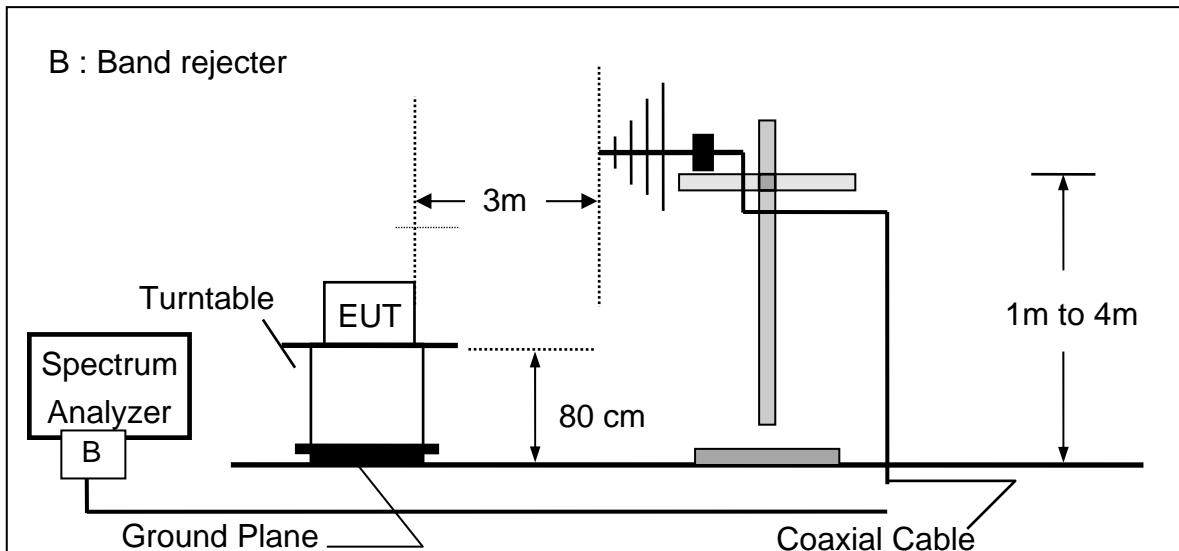
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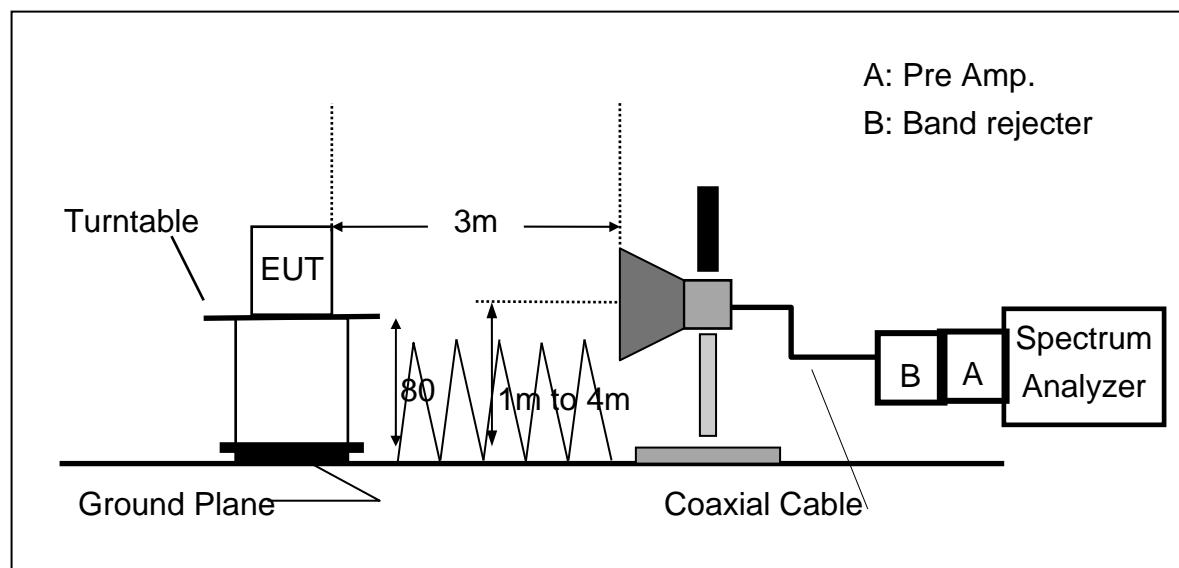
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## 10.2. EUT Setup

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	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/10/2017	02/09/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018

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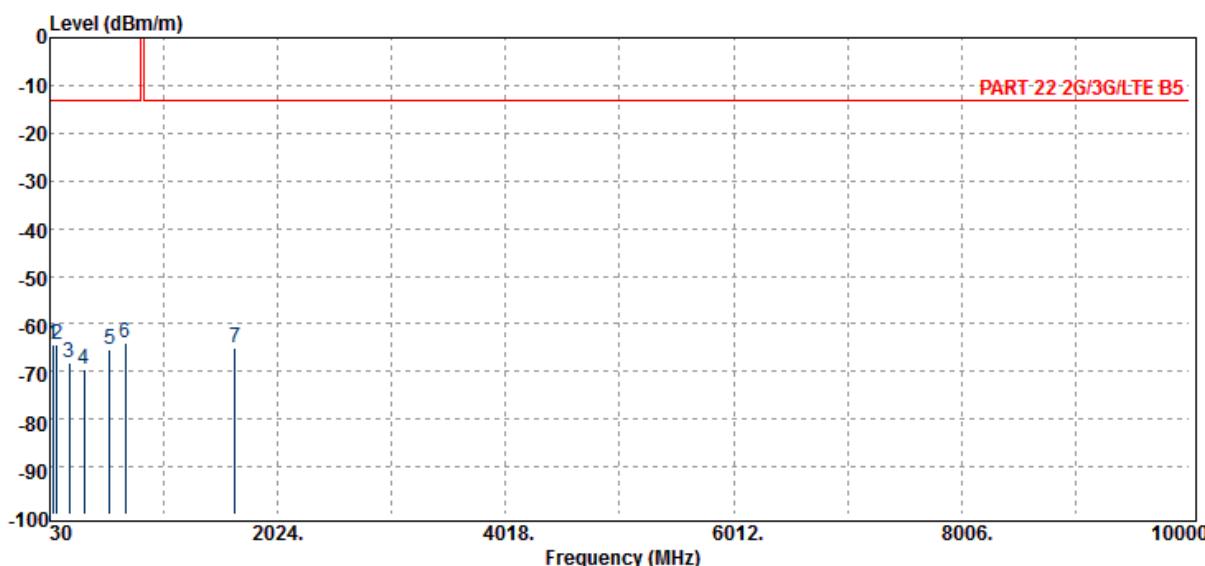
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## 10.5. Measurement Result:

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

Operation Band :GPRS 850 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :824.2 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



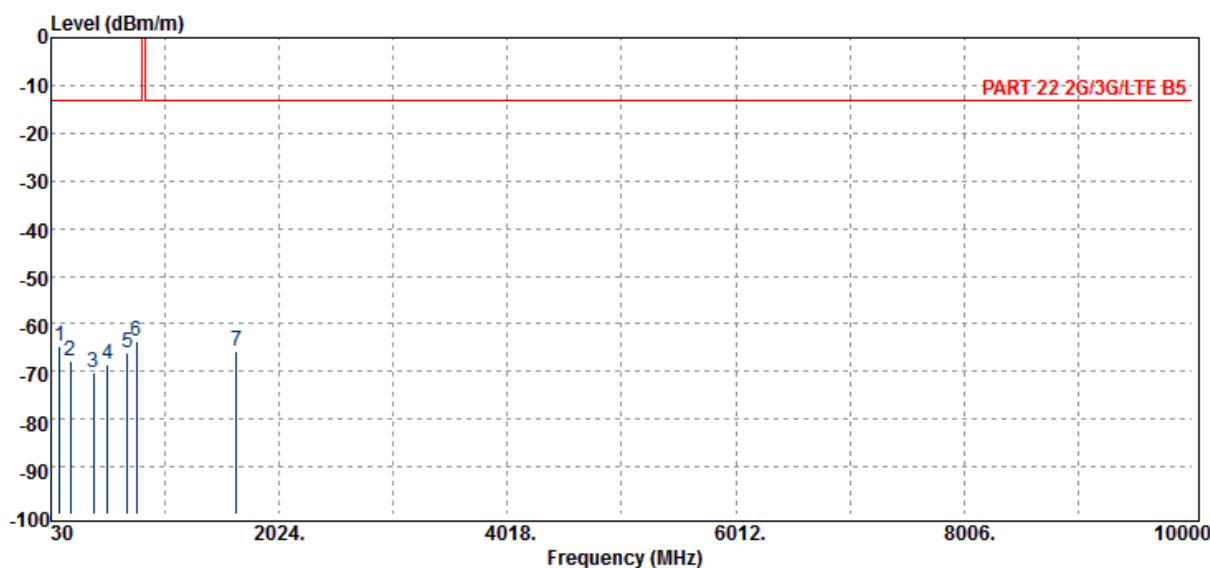
Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
54.25	S	-62.36	-53.27	-8.03	-1.06	-13	-49.36
91.11	S	-62.17	-62.54	1.58	-1.21	-13	-49.17
202.66	S	-65.85	-69.57	5.37	-1.65	-13	-52.85
332.64	S	-67.35	-71.37	5.93	-1.91	-13	-54.35
553.80	S	-63.25	-66.22	5.71	-2.74	-13	-50.25
691.54	S	-62.01	-64.42	5.24	-2.83	-13	-49.01
1648.40	H	-62.95	-67.99	9.26	-4.22	-13	-49.95

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Operation Band :GPRS 850  
 Fundamental Frequency :824.2 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



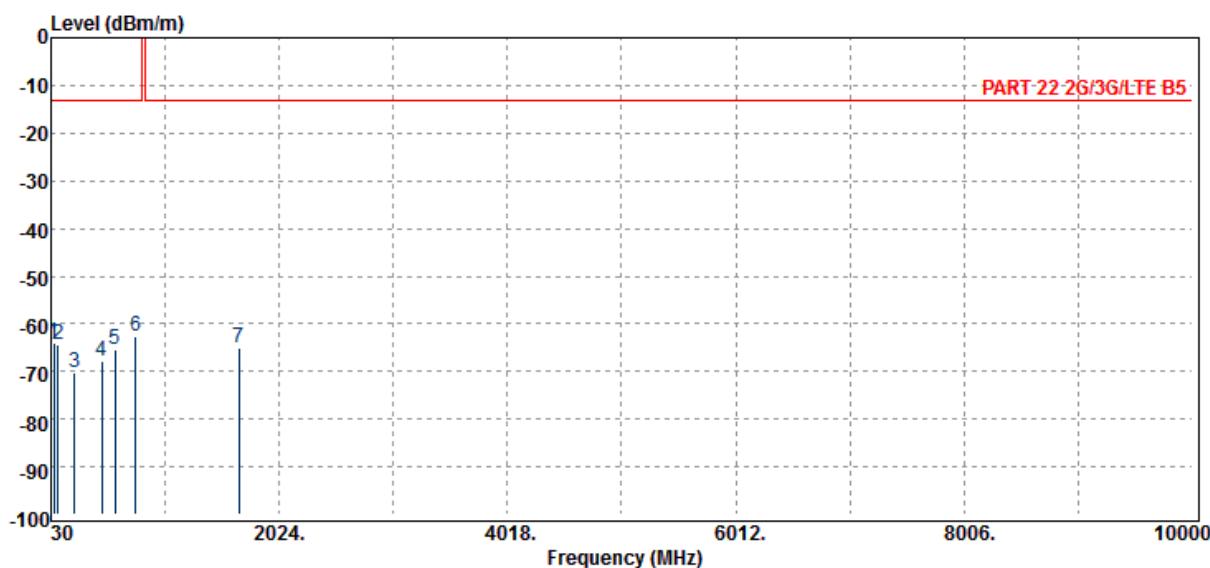
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Antenna Gain dBi				
104.69	S	-62.62	-61.46	0.11	-1.27	-13	-49.62	
199.75	S	-65.69	-69.30	5.24	-1.63	-13	-52.69	
403.45	S	-68.10	-71.66	5.96	-2.40	-13	-55.10	
527.61	S	-66.46	-69.85	5.86	-2.47	-13	-53.46	
694.45	S	-63.85	-66.21	5.24	-2.88	-13	-50.85	
773.99	S	-61.36	-63.84	5.41	-2.93	-13	-48.36	
1648.40	H	-63.49	-68.53	9.26	-4.22	-13	-50.49	

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Operation Band :GPRS 850  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL



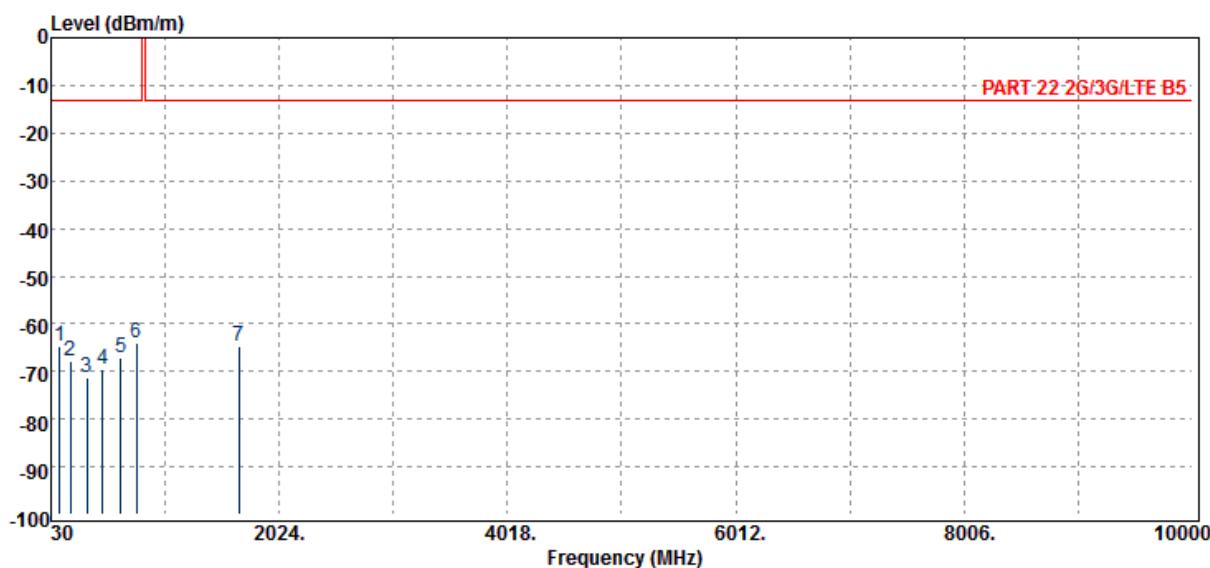
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Antenna Gain dBi				
54.25	S	-61.71	-52.62	-8.03	-1.06	-13	-48.71	
92.08	S	-62.30	-62.54	1.46	-1.22	-13	-49.30	
238.55	S	-68.13	-71.80	5.41	-1.74	-13	-55.13	
473.29	S	-65.78	-69.45	5.90	-2.23	-13	-52.78	
587.75	S	-63.37	-66.05	5.47	-2.79	-13	-50.37	
772.05	S	-60.45	-62.91	5.40	-2.94	-13	-47.45	
1673.20	H	-62.91	-67.97	9.35	-4.29	-13	-49.91	

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Operation Band :GPRS 850  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



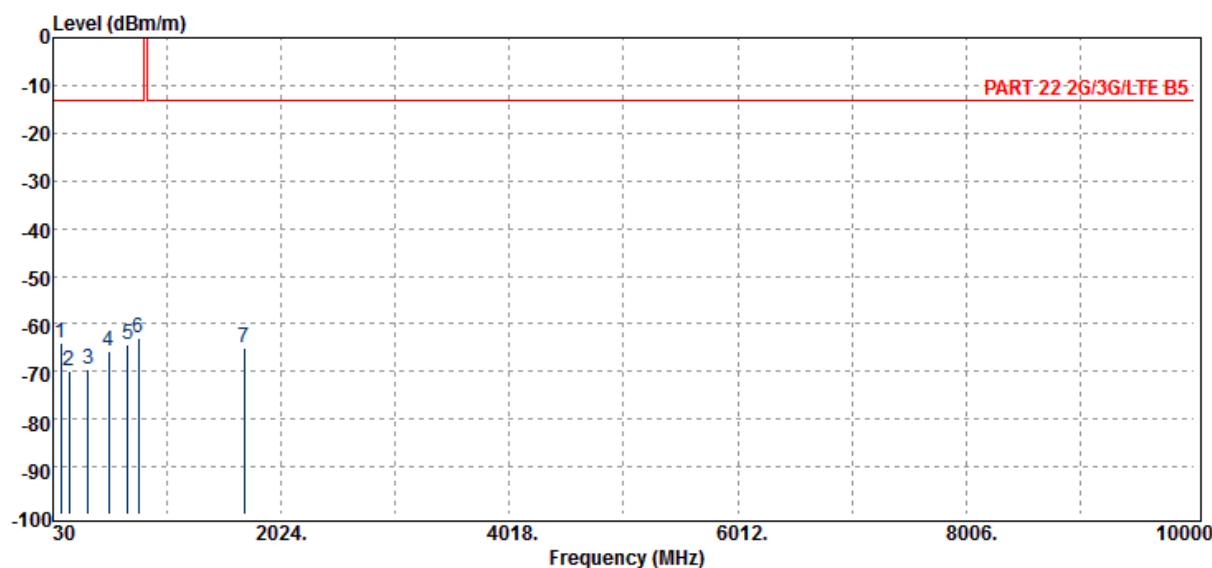
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-62.69	-61.53	-61.53	0.11	-1.27	-13	-49.69
202.66	S	-65.68	-69.40	-69.40	5.37	-1.65	-13	-52.68
343.31	S	-69.10	-73.09	-73.09	5.98	-1.99	-13	-56.10
482.99	S	-67.43	-71.12	-71.12	5.94	-2.25	-13	-54.43
641.10	S	-65.05	-67.93	-67.93	5.31	-2.43	-13	-52.05
773.99	S	-61.86	-64.34	-64.34	5.41	-2.93	-13	-48.86
1673.20	H	-62.62	-67.68	-67.68	9.35	-4.29	-13	-49.62

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



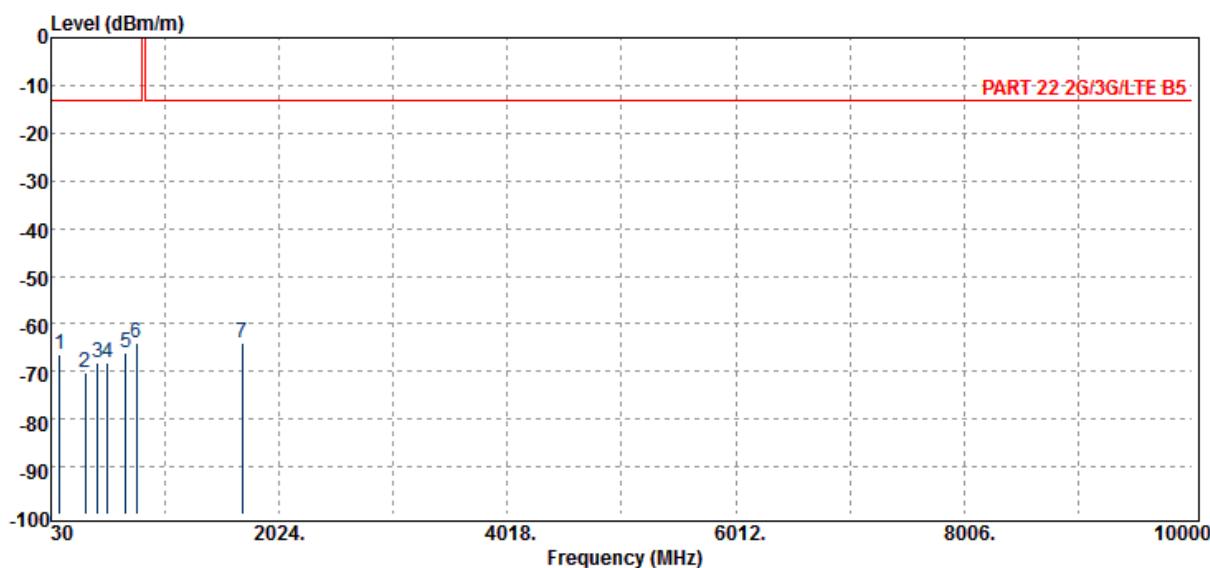
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
94.99	S	-62.02	-61.90	-61.90	1.11	-1.23	-13	-49.02
172.59	S	-67.75	-67.93	-67.93	1.71	-1.53	-13	-54.75
333.61	S	-67.45	-71.47	-71.47	5.94	-1.92	-13	-54.45
516.94	S	-63.65	-67.19	-67.19	5.91	-2.37	-13	-50.65
683.78	S	-62.15	-64.71	-64.71	5.25	-2.69	-13	-49.15
775.93	S	-60.93	-63.43	-63.43	5.42	-2.92	-13	-47.93
1697.60	H	-62.81	-67.93	-67.93	9.43	-4.31	-13	-49.81

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
103.72	S	-64.39	-63.33	-63.33	0.20	-1.26	-13	-51.39
327.79	S	-68.13	-72.12	-72.12	5.91	-1.92	-13	-55.13
435.46	S	-66.06	-69.67	-69.67	5.84	-2.23	-13	-53.06
526.64	S	-66.03	-69.43	-69.43	5.86	-2.46	-13	-53.03
681.84	S	-64.04	-66.64	-66.64	5.25	-2.65	-13	-51.04
773.99	S	-61.71	-64.19	-64.19	5.41	-2.93	-13	-48.71
1697.60	H	-62.02	-67.14	-67.14	9.43	-4.31	-13	-49.02

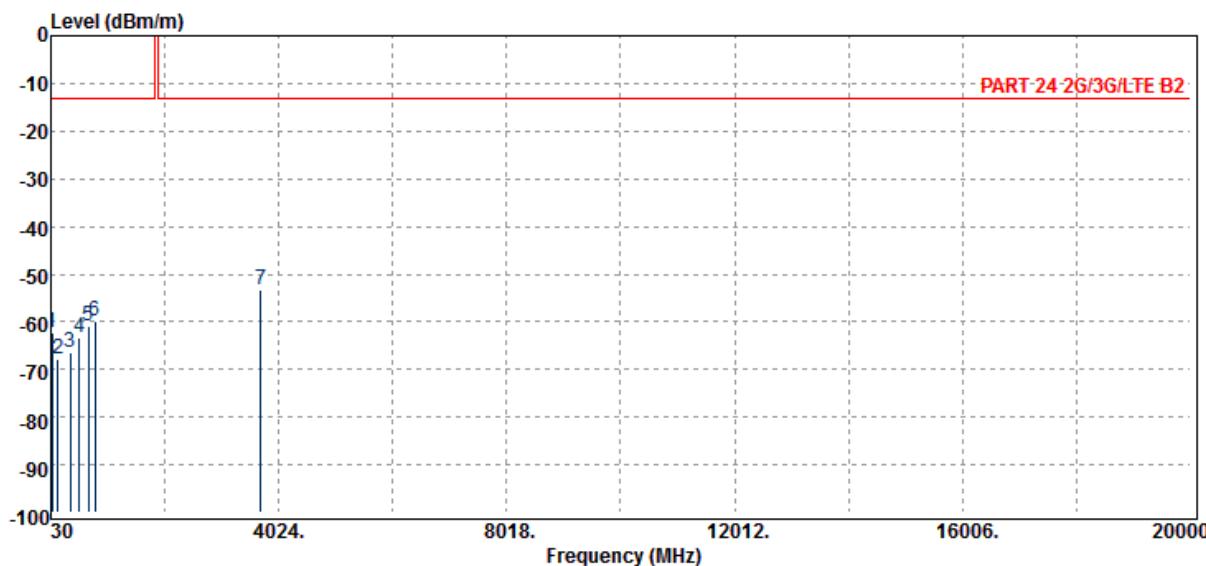
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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode (The Worst Case)**

Operation Band :GPRS 1900 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1850.2 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



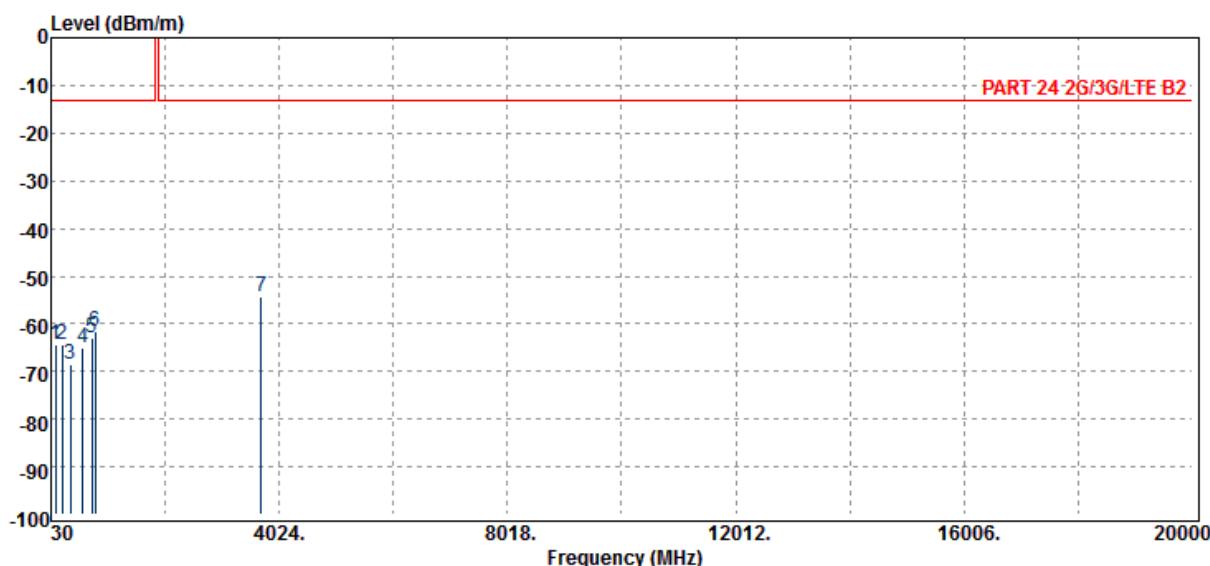
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-62.42	-54.05	-7.29	-1.07	-13.00	-49.42	
159.01	S	-67.98	-66.98	0.47	-1.47	-13.00	-54.98	
364.65	S	-66.45	-70.29	6.00	-2.16	-13.00	-53.45	
522.76	S	-63.16	-66.62	5.88	-2.42	-13.00	-50.16	
686.69	S	-61.03	-63.54	5.25	-2.74	-13.00	-48.03	
807.94	S	-59.78	-62.36	5.48	-2.89	-13.00	-46.78	
3700.40	H	-53.29	-59.15	12.44	-6.58	-13.00	-40.29	

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Operation Band :GPRS 1900  
 Fundamental Frequency :1850.2 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



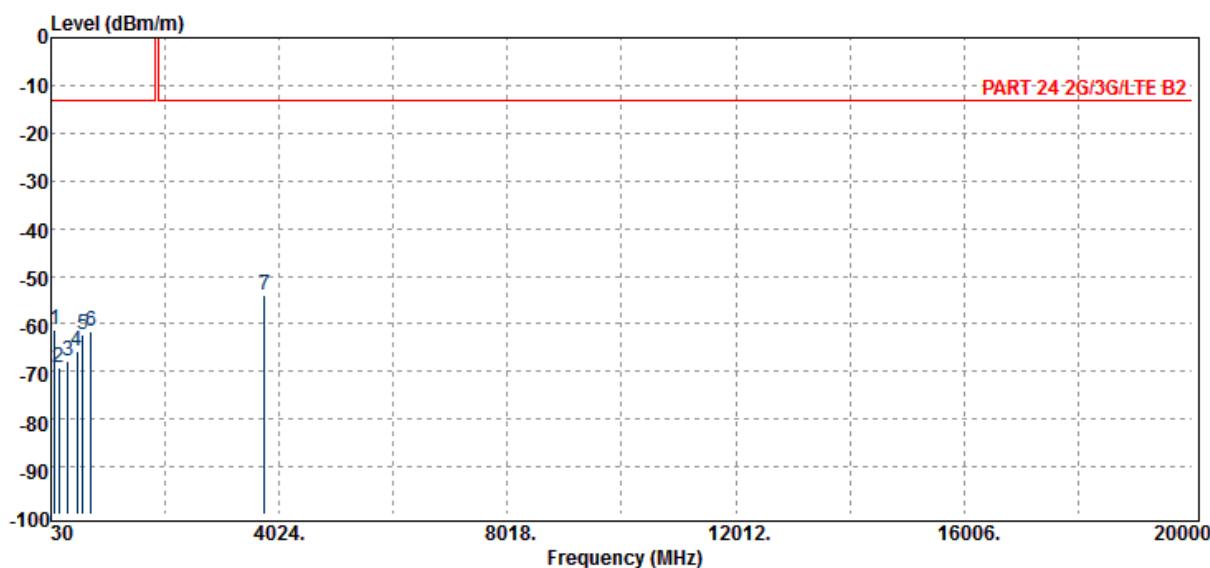
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
103.72	S	-64.42	-63.35	-63.35	0.20	-1.26	-13.00	-51.42
221.09	S	-64.24	-67.98	-67.98	5.45	-1.71	-13.00	-51.24
364.65	S	-68.36	-72.20	-72.20	6.00	-2.16	-13.00	-55.36
587.75	S	-65.18	-67.86	-67.86	5.47	-2.79	-13.00	-52.18
744.89	S	-62.92	-65.13	-65.13	5.32	-3.11	-13.00	-49.92
807.94	S	-61.71	-64.29	-64.29	5.48	-2.89	-13.00	-48.71
3700.40	H	-54.20	-60.06	-60.06	12.44	-6.58	-13.00	-41.20

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Operation Band :GPRS 1900  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



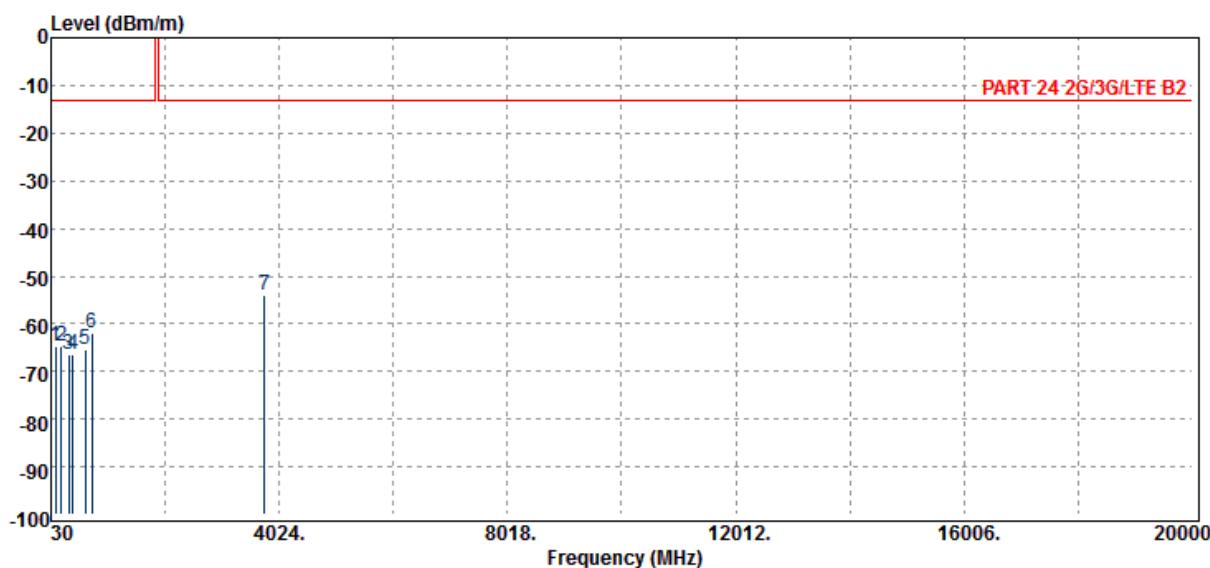
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output	Level				
94.99	S	-61.40	-61.28	-61.28	1.11	-1.23	-13.00	-48.40
173.56	S	-69.10	-69.45	-69.45	1.89	-1.53	-13.00	-56.10
332.64	S	-67.94	-71.96	-71.96	5.93	-1.91	-13.00	-54.94
482.99	S	-65.91	-69.60	-69.60	5.94	-2.25	-13.00	-52.91
582.90	S	-62.38	-65.10	-65.10	5.51	-2.79	-13.00	-49.38
726.46	S	-61.57	-63.76	-63.76	5.29	-3.10	-13.00	-48.57
3760.00	H	-54.11	-59.96	-59.96	12.45	-6.60	-13.00	-41.11

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Operation Band :GPRS 1900  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-64.63	-63.47	-63.47	0.11	-1.27	-13.00	-51.63
216.24	S	-64.61	-68.47	-68.47	5.55	-1.69	-13.00	-51.61
337.49	S	-66.49	-70.50	-70.50	5.95	-1.95	-13.00	-53.49
410.24	S	-66.58	-70.12	-70.12	5.93	-2.40	-13.00	-53.58
626.55	S	-65.32	-68.16	-68.16	5.34	-2.49	-13.00	-52.32
745.86	S	-61.81	-64.03	-64.03	5.32	-3.10	-13.00	-48.81
3760.00	H	-53.82	-59.68	-59.68	12.45	-6.60	-13.00	-40.82

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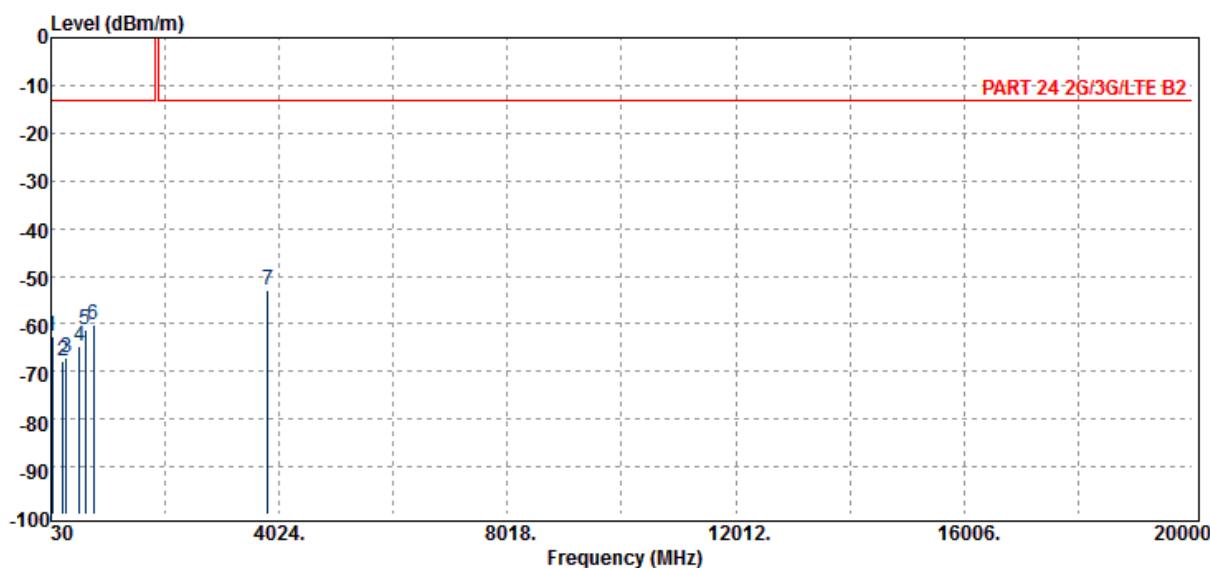
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Operation Band :GPRS 1900  
 Fundamental Frequency :1909.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



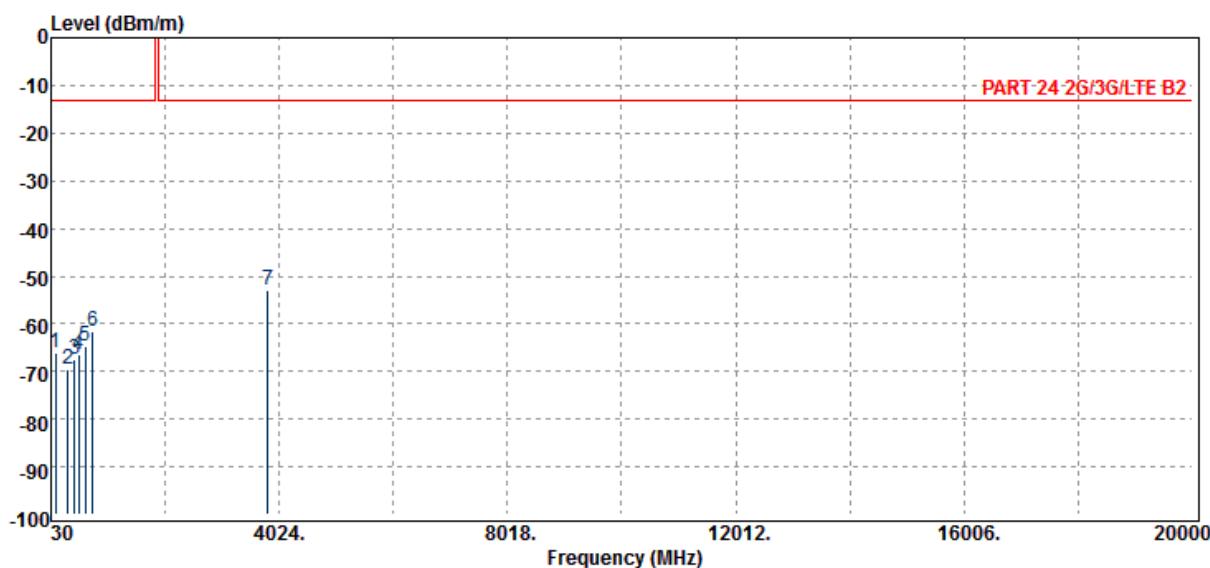
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
55.22	S	-62.50	-53.66	-53.66	-7.78	-1.06	-13.00	-49.50
239.52	S	-67.72	-71.40	-71.40	5.43	-1.74	-13.00	-54.72
294.81	S	-67.13	-70.86	-70.86	5.67	-1.94	-13.00	-54.13
524.70	S	-64.56	-67.99	-67.99	5.87	-2.44	-13.00	-51.56
623.64	S	-61.27	-64.10	-64.10	5.34	-2.52	-13.00	-48.27
772.05	S	-60.29	-62.75	-62.75	5.40	-2.94	-13.00	-47.29
3819.60	H	-53.09	-58.91	-58.91	12.47	-6.65	-13.00	-40.09

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-66.10	-64.94	-64.94	0.11	-1.27	-13.00	-53.10
325.85	S	-69.57	-73.55	-73.55	5.90	-1.92	-13.00	-56.57
447.10	S	-67.37	-70.98	-70.98	5.80	-2.19	-13.00	-54.37
515.00	S	-66.44	-70.00	-70.00	5.92	-2.36	-13.00	-53.44
631.40	S	-64.62	-67.48	-67.48	5.33	-2.46	-13.00	-51.62
762.35	S	-61.76	-64.13	-64.13	5.37	-3.00	-13.00	-48.76
3819.60	H	-53.01	-58.83	-58.83	12.47	-6.65	-13.00	-40.01

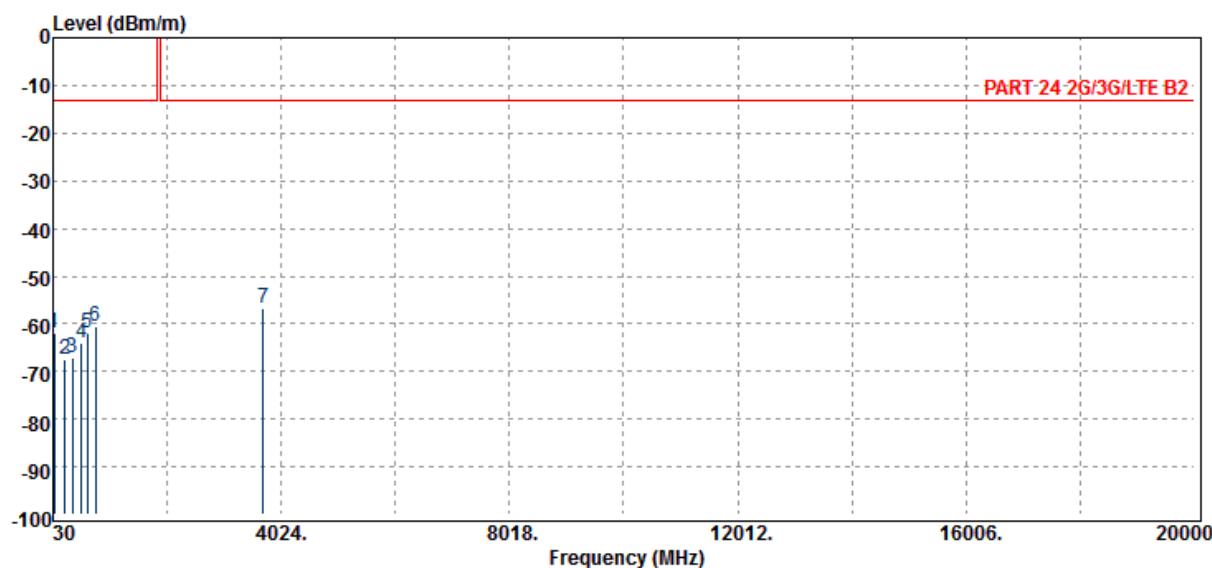
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**Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode (The Worst Case)**

Operation Band :HSDPA B2 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1852.4 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



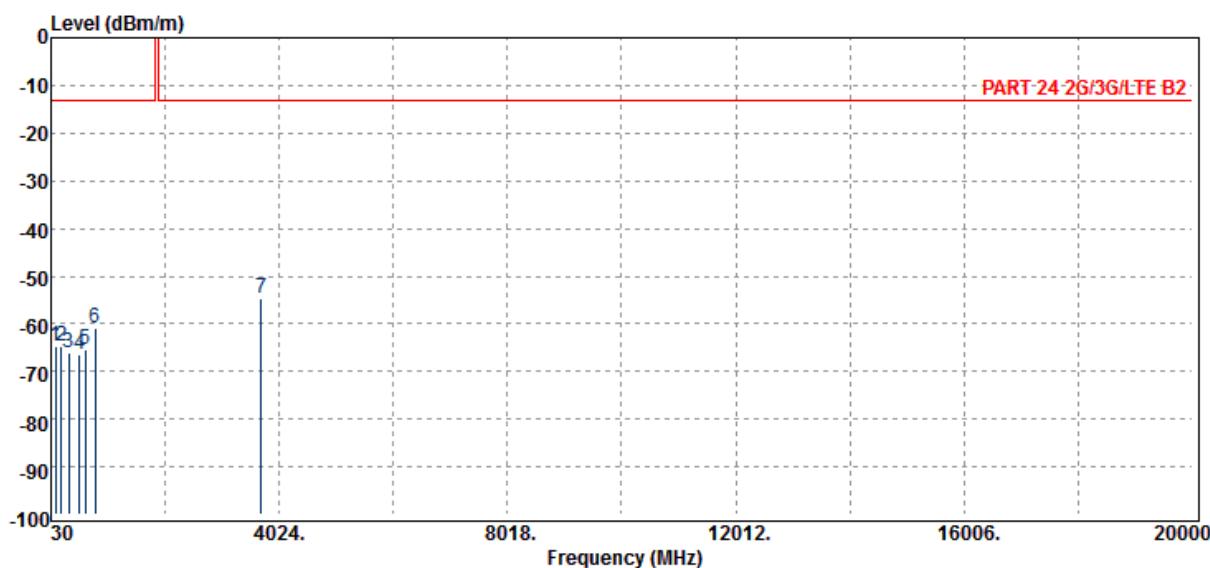
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-61.79	-53.42	-7.29	-1.07	-13.00	-48.79	
236.61	S	-67.50	-71.14	5.38	-1.73	-13.00	-54.50	
367.56	S	-67.12	-70.94	6.00	-2.18	-13.00	-54.12	
531.49	S	-64.09	-67.41	5.84	-2.51	-13.00	-51.09	
623.64	S	-62.08	-64.90	5.34	-2.52	-13.00	-49.08	
774.96	S	-60.45	-62.94	5.41	-2.92	-13.00	-47.45	
3704.80	H	-56.70	-62.56	12.44	-6.58	-13.00	-43.70	

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Operation Band :HSDPA B2  
 Fundamental Frequency :1852.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. Engineer :21 deg\_C / 62 RH  
 Antenna :Tin  
 Measurement Pol. :HORIZONTAL



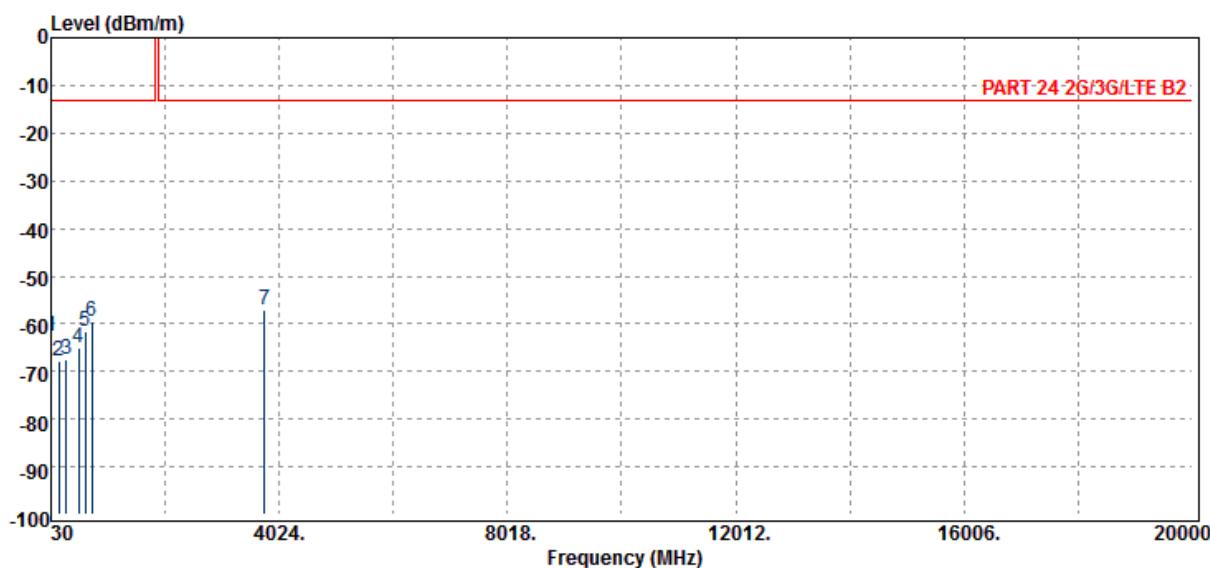
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-64.54	-63.38	-63.38	0.11	-1.27	-13.00	-51.54
212.36	S	-64.68	-68.63	-68.63	5.63	-1.68	-13.00	-51.68
337.49	S	-66.04	-70.05	-70.05	5.95	-1.95	-13.00	-53.04
531.49	S	-66.34	-69.67	-69.67	5.84	-2.51	-13.00	-53.34
625.58	S	-65.27	-68.11	-68.11	5.34	-2.50	-13.00	-52.27
808.91	S	-60.83	-63.41	-63.41	5.48	-2.89	-13.00	-47.83
3704.80	H	-54.69	-60.55	-60.55	12.44	-6.58	-13.00	-41.69

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Operation Band :HSDPA B2  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



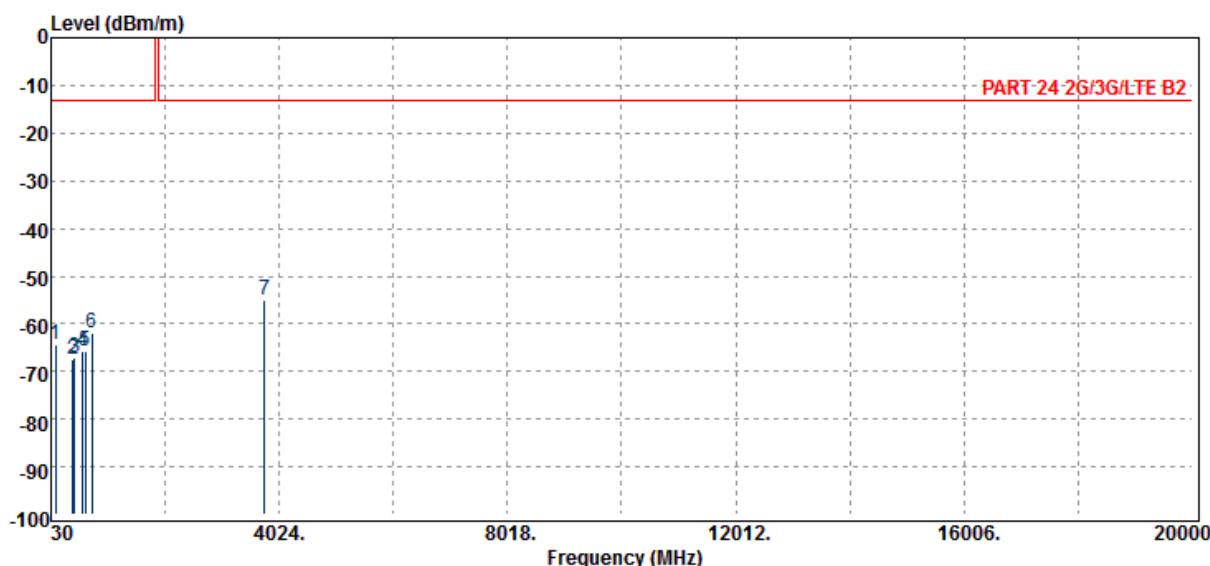
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
41.64	S	-62.58	-50.89	-50.89	-10.68	-1.00	-13.00	-49.58
165.80	S	-67.73	-67.17	-67.17	0.94	-1.50	-13.00	-54.73
294.81	S	-67.57	-71.30	-71.30	5.67	-1.94	-13.00	-54.57
515.00	S	-64.99	-68.55	-68.55	5.92	-2.36	-13.00	-51.99
629.46	S	-61.69	-64.55	-64.55	5.33	-2.47	-13.00	-48.69
750.71	S	-59.50	-61.77	-61.77	5.33	-3.07	-13.00	-46.50
3760.00	H	-57.12	-62.97	-62.97	12.45	-6.60	-13.00	-44.12

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Operation Band :HSDPA B2  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



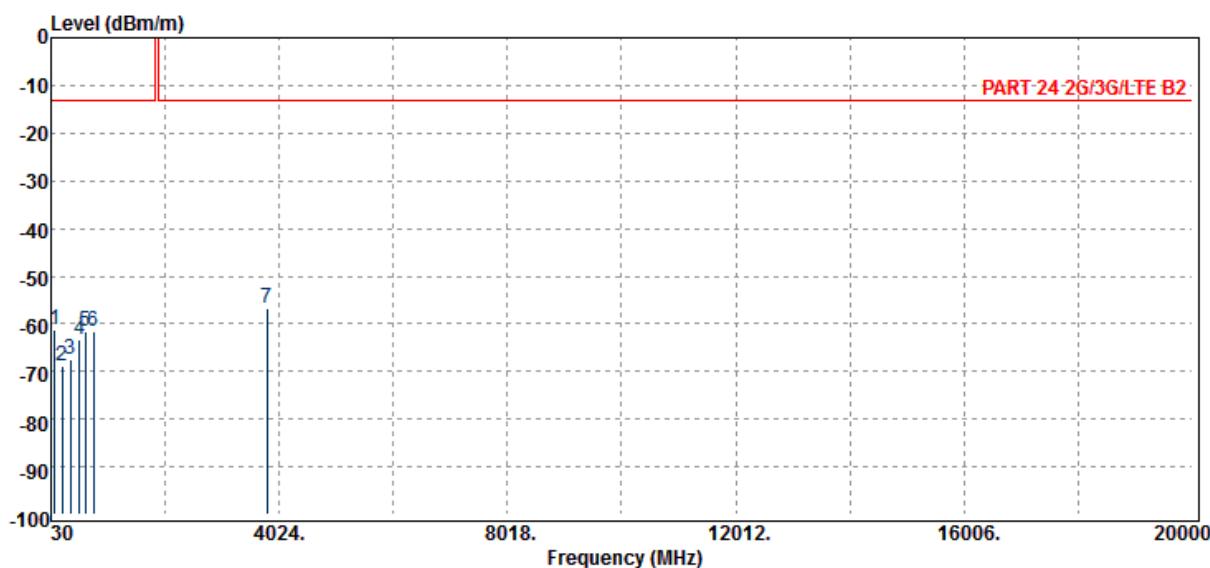
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output	Level				
103.72	S	-64.51	-63.45	-63.45	0.20	-1.26	-13.00	-51.51
413.15	S	-67.50	-71.04	-71.04	5.92	-2.38	-13.00	-54.50
435.46	S	-67.15	-70.76	-70.76	5.84	-2.23	-13.00	-54.15
585.81	S	-65.76	-68.45	-68.45	5.49	-2.79	-13.00	-52.76
629.46	S	-65.63	-68.49	-68.49	5.33	-2.47	-13.00	-52.63
741.01	S	-62.08	-64.26	-64.26	5.31	-3.13	-13.00	-49.08
3760.00	H	-54.96	-60.82	-60.82	12.45	-6.60	-13.00	-41.96

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



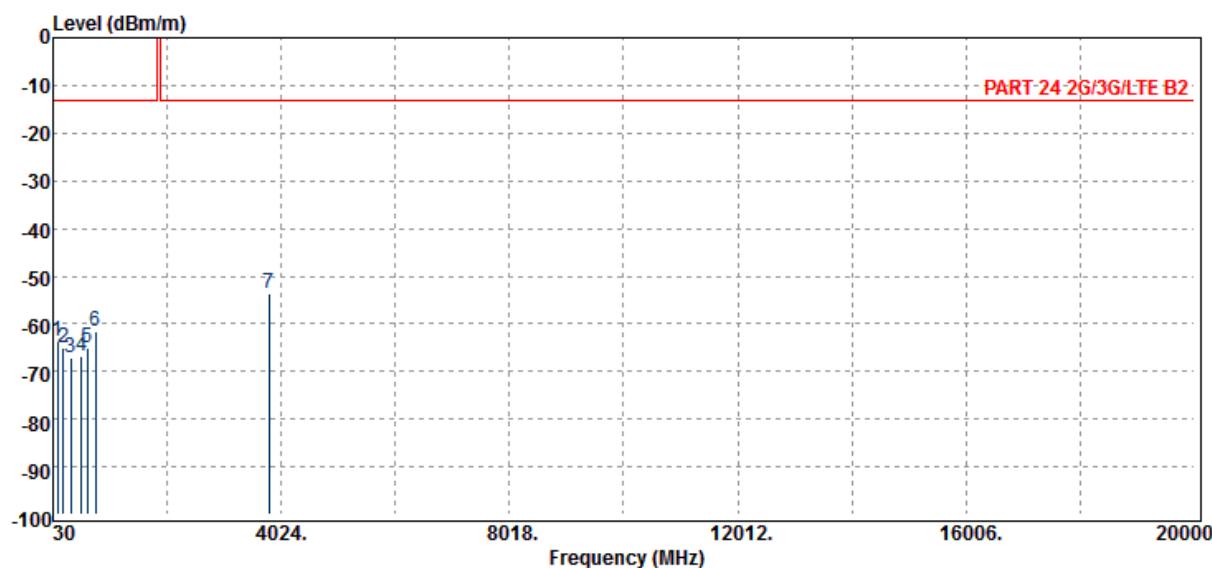
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
93.05	S	-61.25	-61.37	-61.37	1.34	-1.22	-13.00	-48.25
226.91	S	-68.87	-72.48	-72.48	5.33	-1.72	-13.00	-55.87
376.29	S	-67.54	-71.29	-71.29	5.99	-2.24	-13.00	-54.54
534.40	S	-63.22	-66.50	-66.50	5.82	-2.54	-13.00	-50.22
634.31	S	-61.71	-64.57	-64.57	5.32	-2.45	-13.00	-48.71
767.20	S	-61.67	-64.08	-64.08	5.39	-2.97	-13.00	-48.67
3815.20	H	-56.81	-62.64	-62.64	12.46	-6.63	-13.00	-43.81

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-63.80	-62.65	0.11	-1.27	-13.00	-50.80	
214.30	S	-64.90	-68.80	5.59	-1.68	-13.00	-51.90	
340.40	S	-67.30	-71.30	5.97	-1.97	-13.00	-54.30	
526.64	S	-66.69	-70.09	5.86	-2.46	-13.00	-53.69	
631.40	S	-65.07	-67.94	5.33	-2.46	-13.00	-52.07	
773.99	S	-61.76	-64.24	5.41	-2.93	-13.00	-48.76	
3815.20	H	-53.50	-59.33	12.46	-6.63	-13.00	-40.50	

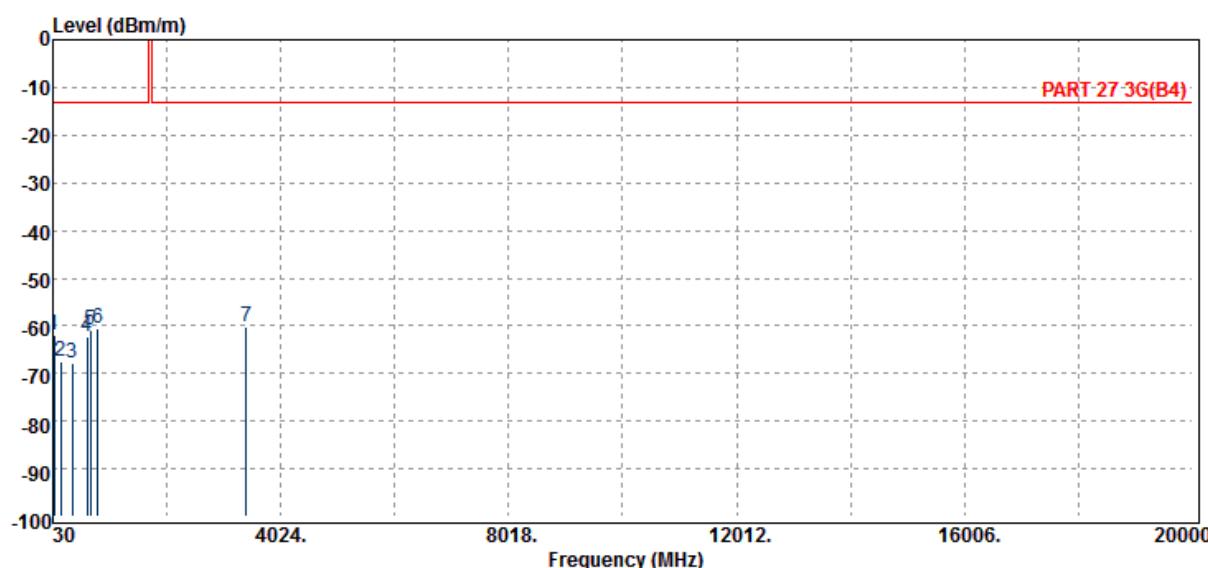
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**Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode (The Worst Case)**

Operation Band :HSDPA B4 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1712.4 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
57.16	S	-61.80	-53.44	-53.44	-7.29	-1.07	-13.00	-48.80
163.86	S	-67.64	-66.95	-66.95	0.80	-1.49	-13.00	-54.64
362.71	S	-67.82	-71.68	-71.68	6.00	-2.15	-13.00	-54.82
624.61	S	-62.21	-65.04	-65.04	5.34	-2.51	-13.00	-49.21
681.84	S	-60.94	-63.54	-63.54	5.25	-2.65	-13.00	-47.94
818.61	S	-60.58	-63.14	-63.14	5.46	-2.91	-13.00	-47.58
3424.80	H	-60.13	-66.17	-66.17	12.27	-6.23	-13.00	-47.13

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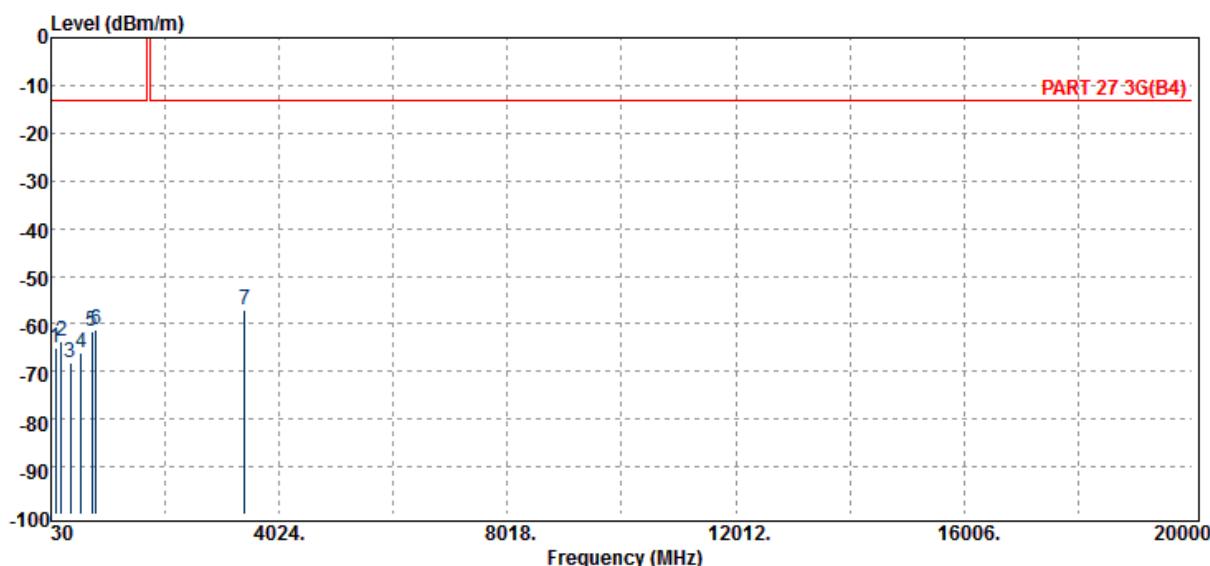
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f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Operation Band :HSDPA B4  
 Fundamental Frequency :1712.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-64.90	-63.74	-63.74	0.11	-1.27	-13.00	-51.90
214.30	S	-63.50	-67.40	-67.40	5.59	-1.68	-13.00	-50.50
371.44	S	-68.03	-71.81	-71.81	5.99	-2.21	-13.00	-55.03
550.89	S	-66.13	-69.16	-69.16	5.73	-2.71	-13.00	-53.13
738.10	S	-61.44	-63.61	-63.61	5.31	-3.13	-13.00	-48.44
817.64	S	-61.12	-63.68	-63.68	5.47	-2.90	-13.00	-48.12
3424.80	H	-57.19	-63.23	-63.23	12.27	-6.23	-13.00	-44.19

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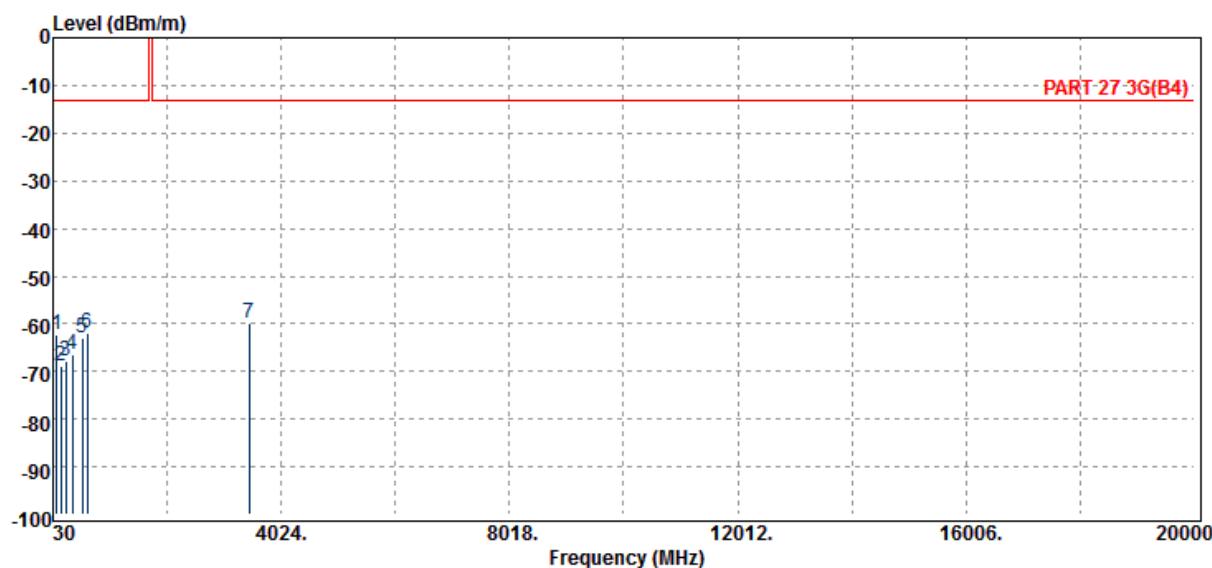
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f (886-2) 2298-0488

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Member of SGS Group

Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL



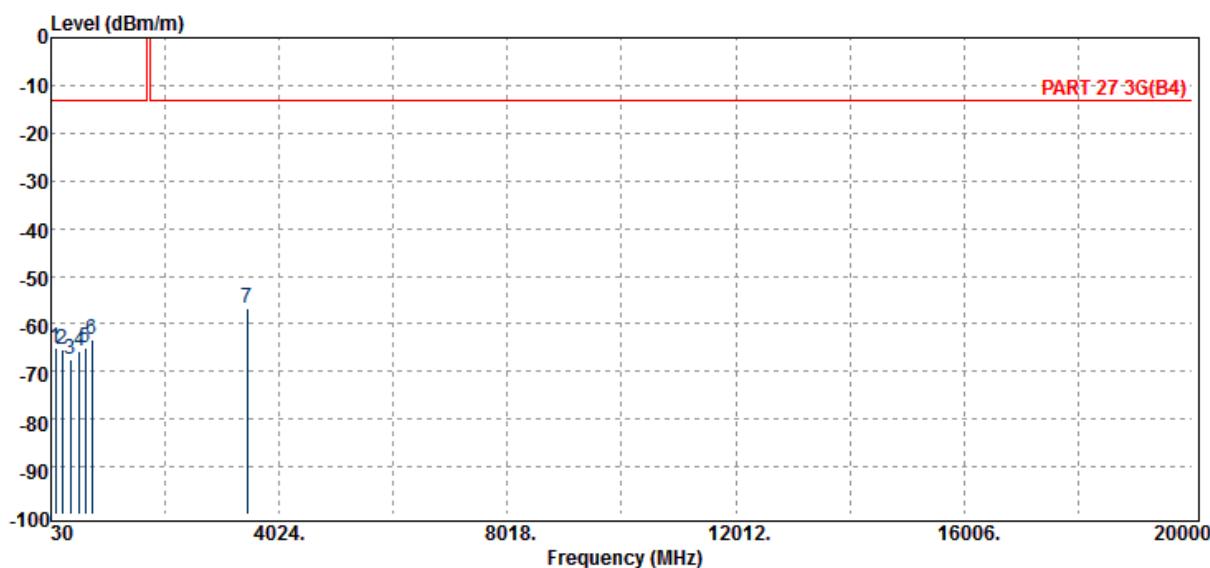
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
91.11	S	-62.35	-62.71	1.58	-1.21	-13.00	-49.35	
165.80	S	-68.89	-68.33	0.94	-1.50	-13.00	-55.89	
248.25	S	-67.86	-71.67	5.56	-1.75	-13.00	-54.86	
366.59	S	-66.56	-70.38	6.00	-2.17	-13.00	-53.56	
536.34	S	-62.88	-66.12	5.81	-2.56	-13.00	-49.88	
626.55	S	-61.92	-64.77	5.34	-2.49	-13.00	-48.92	
3465.20	H	-59.71	-65.81	12.34	-6.25	-13.00	-46.71	

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



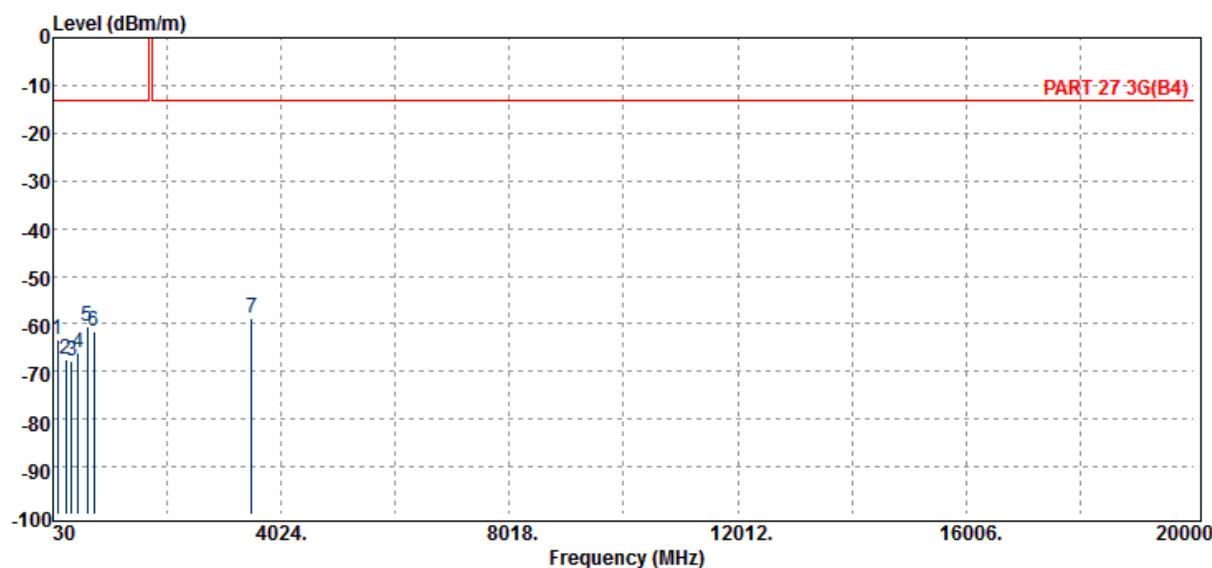
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-65.00	-63.84	-63.84	0.11	-1.27	-13.00	-52.00
222.06	S	-65.24	-68.97	-68.97	5.43	-1.71	-13.00	-52.24
362.71	S	-67.32	-71.18	-71.18	6.00	-2.15	-13.00	-54.32
521.79	S	-65.58	-69.06	-69.06	5.89	-2.41	-13.00	-52.58
631.40	S	-65.22	-68.08	-68.08	5.33	-2.46	-13.00	-52.22
750.71	S	-63.25	-65.51	-65.51	5.33	-3.07	-13.00	-50.25
3465.20	H	-56.84	-62.94	-62.94	12.34	-6.25	-13.00	-43.84

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Operation Band :HSDPA B4  
 Fundamental Frequency :1752.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



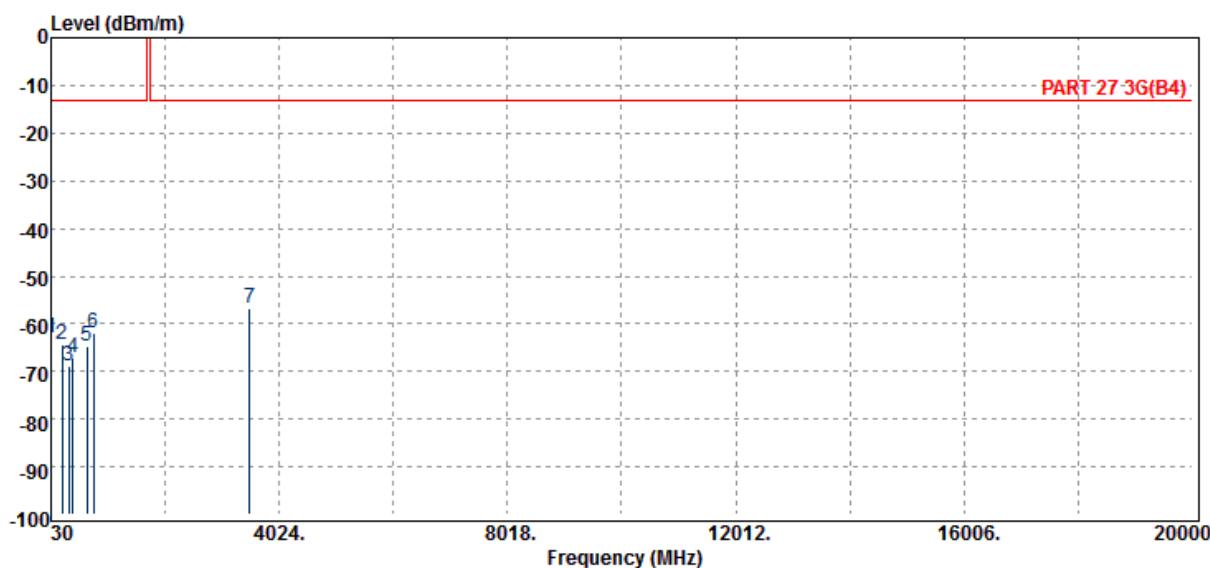
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
103.72	S	-63.30	-62.23	-62.23	0.20	-1.26	-13.00	-50.30
248.25	S	-67.62	-71.43	-71.43	5.56	-1.75	-13.00	-54.62
359.80	S	-67.96	-71.84	-71.84	6.00	-2.12	-13.00	-54.96
473.29	S	-66.14	-69.81	-69.81	5.90	-2.23	-13.00	-53.14
631.40	S	-60.57	-63.43	-63.43	5.33	-2.46	-13.00	-47.57
744.89	S	-61.44	-63.65	-63.65	5.32	-3.11	-13.00	-48.44
3505.20	H	-58.73	-64.67	-64.67	12.40	-6.47	-13.00	-45.73

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Operation Band :HSDPA B4  
 Fundamental Frequency :1752.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
37.76	S	-63.12	-50.97	-50.97	-11.17	-0.98	-13.00	-50.12
224.00	S	-64.41	-68.09	-68.09	5.39	-1.71	-13.00	-51.41
335.55	S	-69.01	-73.02	-73.02	5.95	-1.93	-13.00	-56.01
410.24	S	-67.26	-70.80	-70.80	5.93	-2.40	-13.00	-54.26
658.56	S	-64.57	-67.47	-67.47	5.28	-2.38	-13.00	-51.57
772.05	S	-61.86	-64.33	-64.33	5.40	-2.94	-13.00	-48.86
3505.20	H	-56.87	-62.80	-62.80	12.40	-6.47	-13.00	-43.87

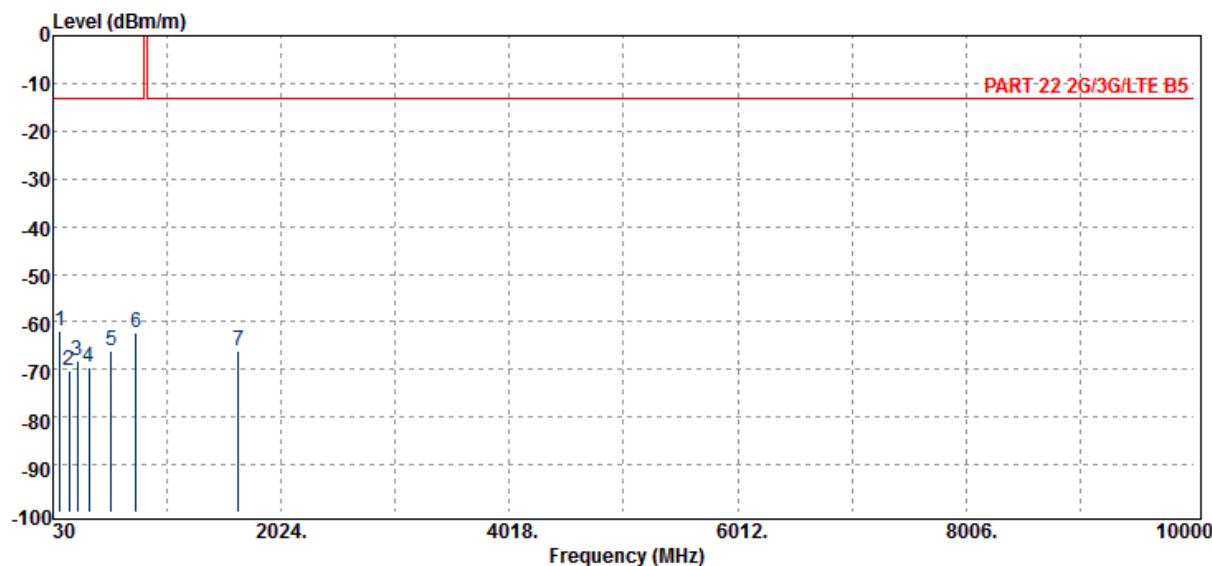
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**Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode (The Worst Case)**

Operation Band :HSDPA B5 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :826.4 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
93.05	S	-59.68	-59.80	-59.80	1.34	-1.22	-13	-46.68
168.71	S	-68.25	-67.89	-67.89	1.15	-1.51	-13	-55.25
243.40	S	-66.07	-69.81	-69.81	5.49	-1.75	-13	-53.07
342.34	S	-67.27	-71.26	-71.26	5.98	-1.99	-13	-54.27
542.16	S	-63.94	-67.10	-67.10	5.78	-2.62	-13	-50.94
757.50	S	-60.00	-62.33	-62.33	5.36	-3.03	-13	-47.00
1652.80	H	-63.83	-68.86	-68.86	9.27	-4.24	-13	-50.83

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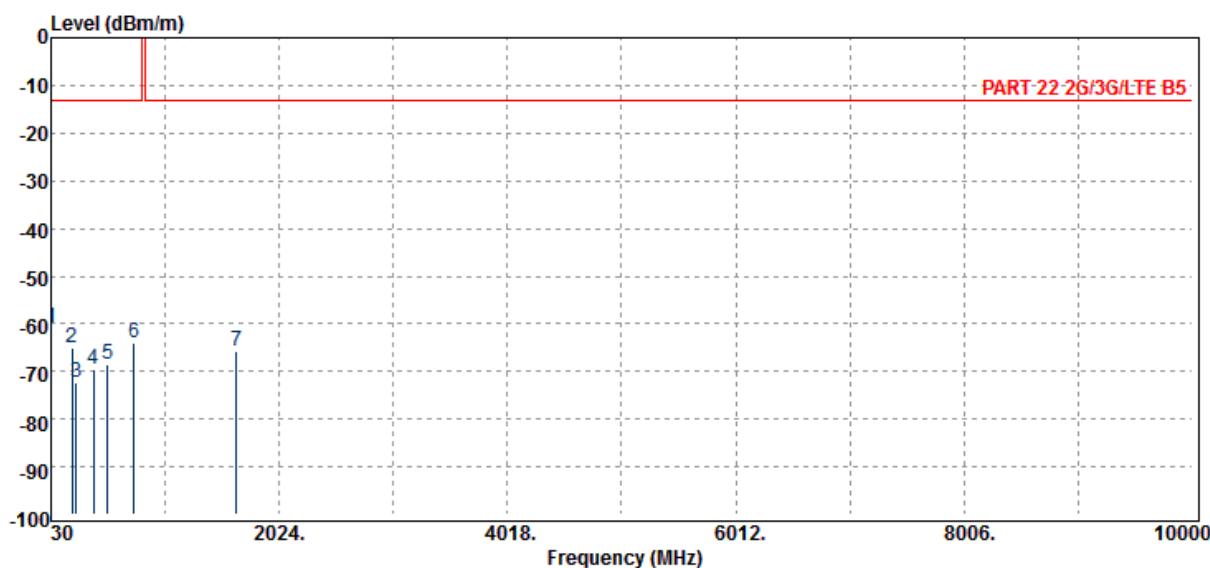
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Operation Band :HSDPA B5  
 Fundamental Frequency :826.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-58.69	-45.10	-45.10	-12.63	-0.96	-13	-45.69
217.21	S	-62.76	-66.60	-66.60	5.53	-1.69	-13	-49.76
249.22	S	-70.11	-73.93	-73.93	5.58	-1.76	-13	-57.11
400.54	S	-67.43	-71.02	-71.02	5.97	-2.38	-13	-54.43
522.76	S	-66.37	-69.83	-69.83	5.88	-2.42	-13	-53.37
757.50	S	-61.89	-64.22	-64.22	5.36	-3.03	-13	-48.89
1652.80	H	-63.74	-68.77	-68.77	9.27	-4.24	-13	-50.74

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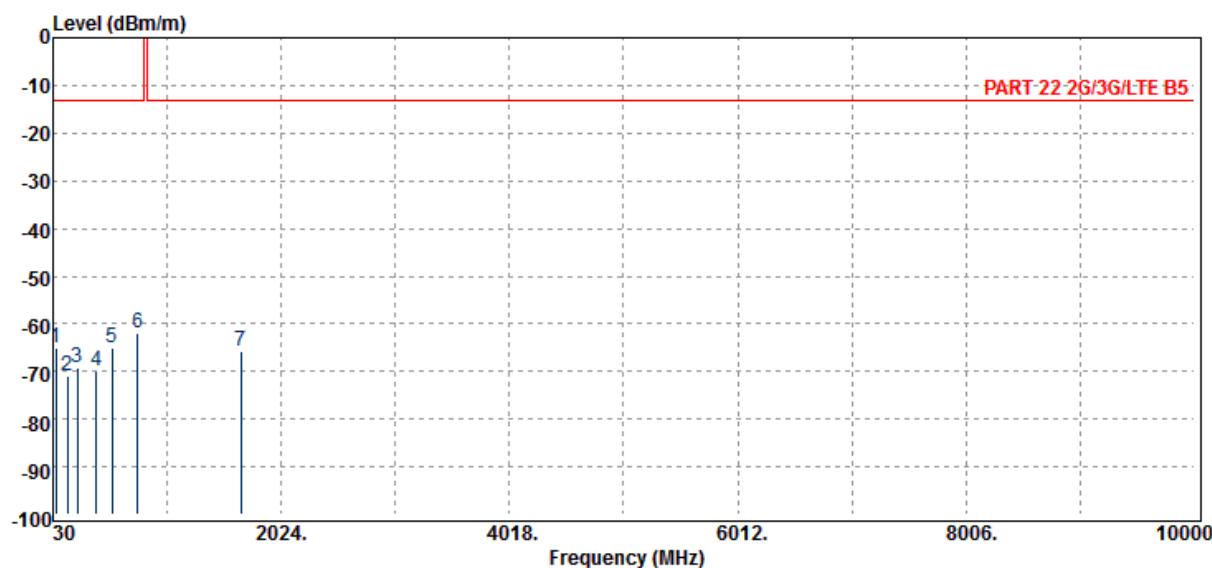
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Operation Band :HSDPA B5  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



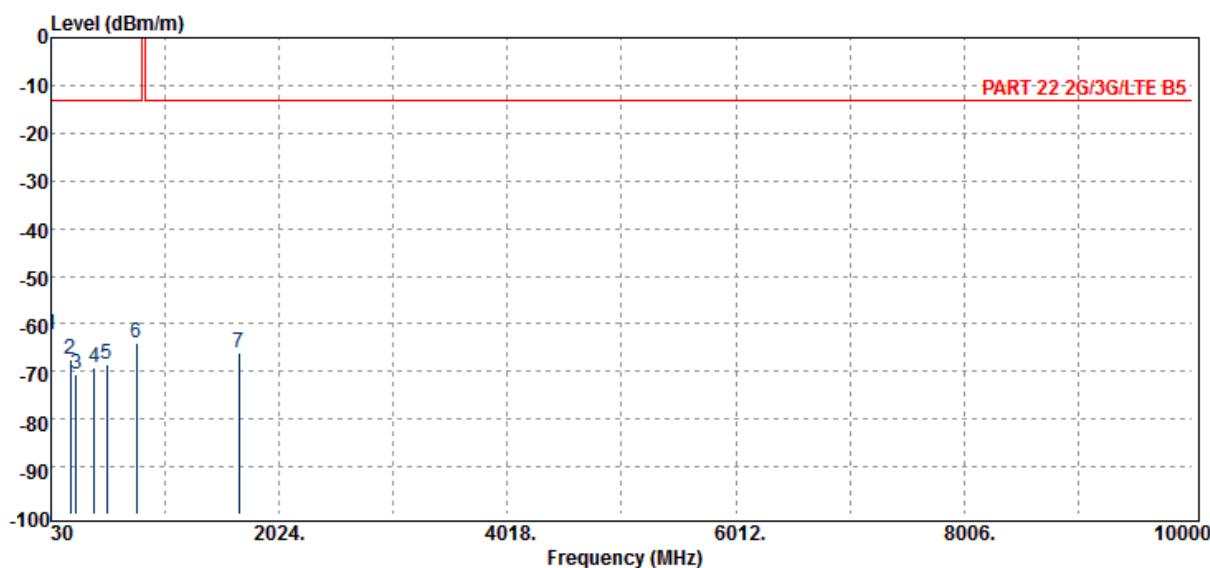
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Antenna Gain dBi				
54.25	S	-62.81	-53.72	-8.03	-1.06	-13	-49.81	
158.04	S	-68.62	-67.57	0.42	-1.47	-13	-55.62	
239.52	S	-67.05	-70.74	5.43	-1.74	-13	-54.05	
411.21	S	-67.71	-71.25	5.93	-2.39	-13	-54.71	
548.95	S	-63.01	-66.06	5.74	-2.69	-13	-50.01	
769.14	S	-59.95	-62.38	5.39	-2.96	-13	-46.95	
1673.20	H	-63.53	-68.59	9.35	-4.29	-13	-50.53	

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Operation Band :HSDPA B5  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



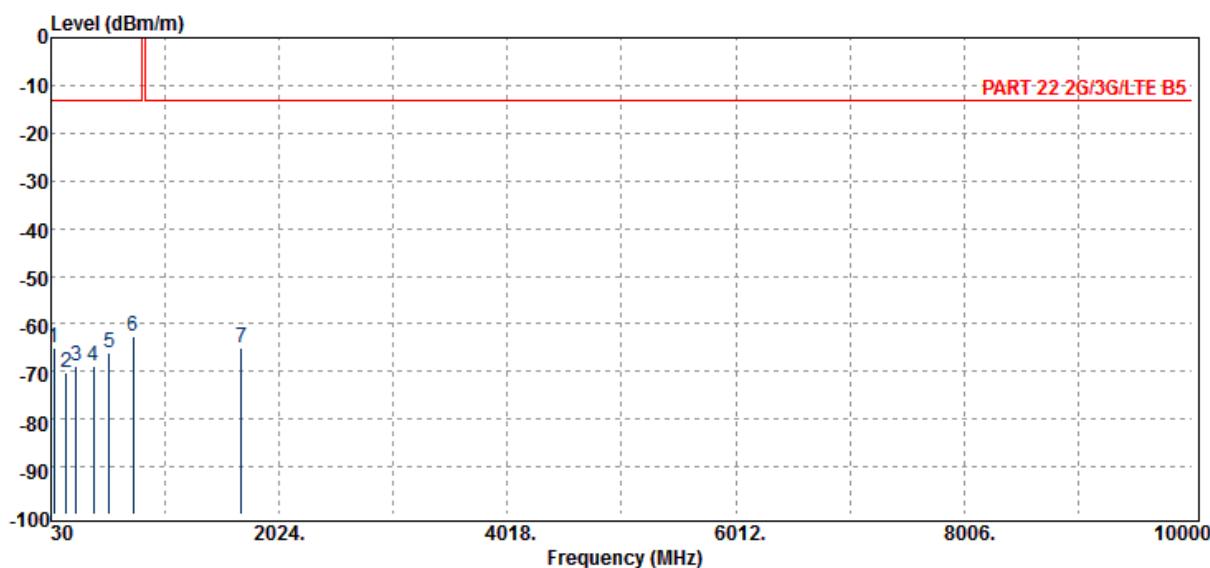
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
30.00	S	-60.04	-46.45	-12.63	-0.96	-13	-47.04	
202.66	S	-65.23	-68.95	5.37	-1.65	-13	-52.23	
248.25	S	-68.49	-72.30	5.56	-1.75	-13	-55.49	
408.30	S	-66.95	-70.48	5.94	-2.41	-13	-53.95	
517.91	S	-66.45	-69.99	5.91	-2.37	-13	-53.45	
773.99	S	-61.74	-64.22	5.41	-2.93	-13	-48.74	
1673.20	H	-63.83	-68.89	9.35	-4.29	-13	-50.83	

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



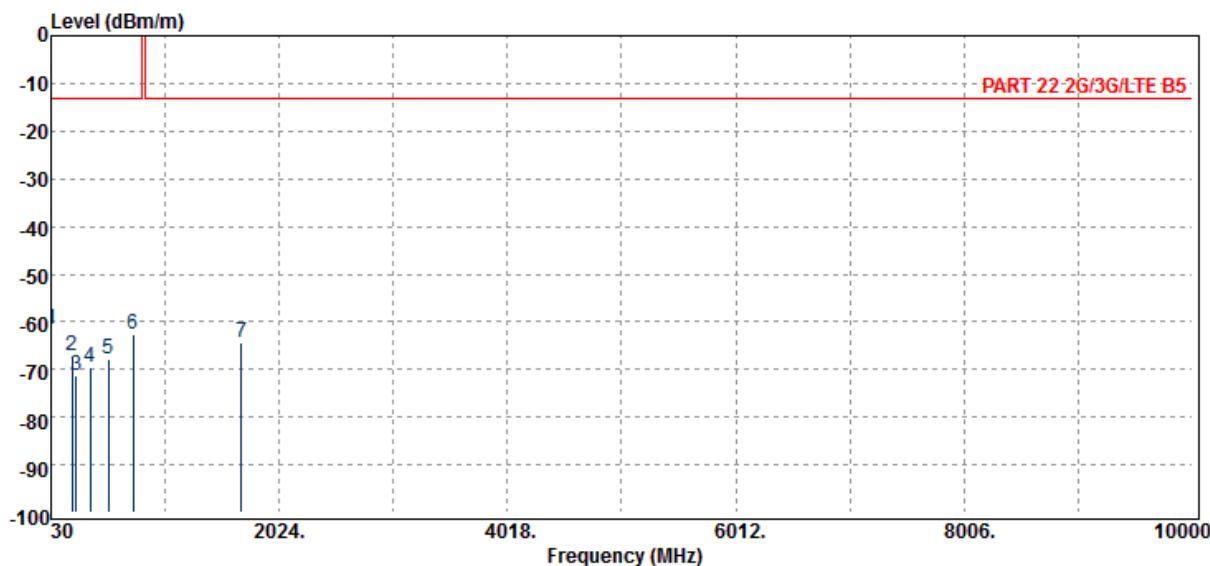
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-62.89	-53.80	-8.03	-1.06	-13	-49.89	
159.98	S	-68.00	-67.03	0.51	-1.48	-13	-55.00	
248.25	S	-66.83	-70.64	5.56	-1.75	-13	-53.83	
403.45	S	-66.69	-70.25	5.96	-2.40	-13	-53.69	
541.19	S	-63.77	-66.94	5.78	-2.61	-13	-50.77	
745.86	S	-60.41	-62.63	5.32	-3.10	-13	-47.41	
1693.20	H	-62.97	-68.09	9.42	-4.30	-13	-49.97	

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-59.35	-45.76	-45.76	-12.63	-0.96	-13	-46.35
216.24	S	-64.91	-68.77	-68.77	5.55	-1.69	-13	-51.91
250.19	S	-69.30	-73.13	-73.13	5.59	-1.76	-13	-56.30
371.44	S	-67.44	-71.22	-71.22	5.99	-2.21	-13	-54.44
529.55	S	-65.74	-69.10	-69.10	5.85	-2.49	-13	-52.74
744.89	S	-60.65	-62.86	-62.86	5.32	-3.11	-13	-47.65
1693.20	H	-62.23	-67.35	-67.35	9.42	-4.30	-13	-49.23

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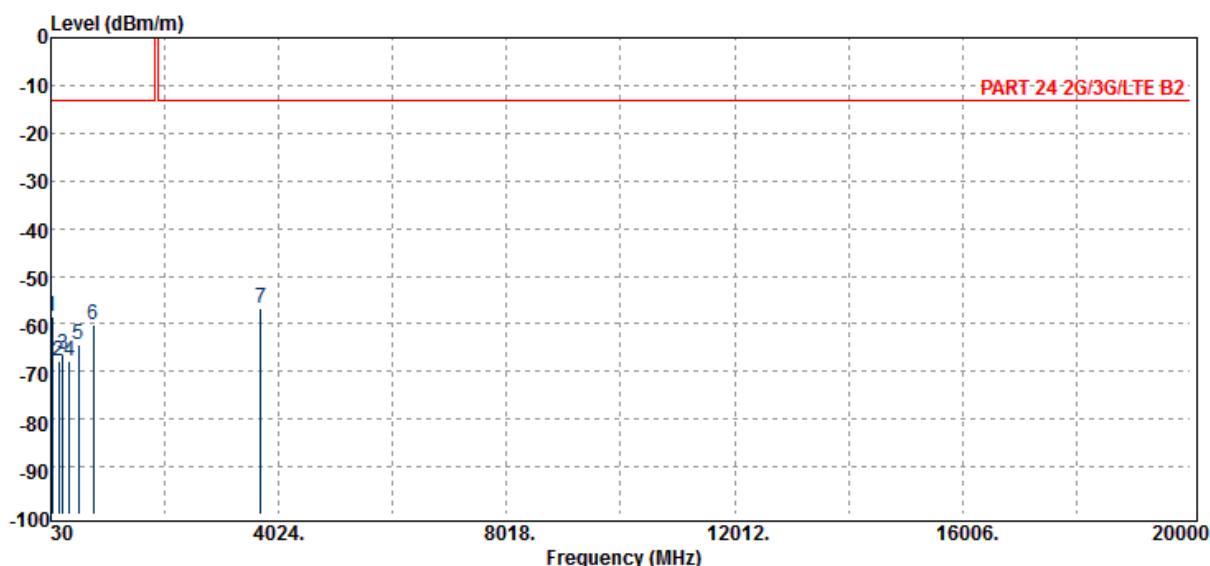
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**Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)**

Operation Band :LTE B2 Temp./Humi. :23 deg\_C / 62 RH  
 Fundamental Frequency :1855.0 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-58.37	-49.27	-49.27	-8.03	-1.06	-13.00	-45.37
165.80	S	-67.65	-67.09	-67.09	0.94	-1.50	-13.00	-54.65
239.52	S	-66.53	-70.22	-70.22	5.43	-1.74	-13.00	-53.53
361.74	S	-67.81	-71.68	-71.68	6.00	-2.14	-13.00	-54.81
517.91	S	-64.22	-67.76	-67.76	5.91	-2.37	-13.00	-51.22
773.99	S	-60.19	-62.67	-62.67	5.41	-2.93	-13.00	-47.19
3710.00	H	-56.77	-62.64	-62.64	12.44	-6.58	-13.00	-43.77

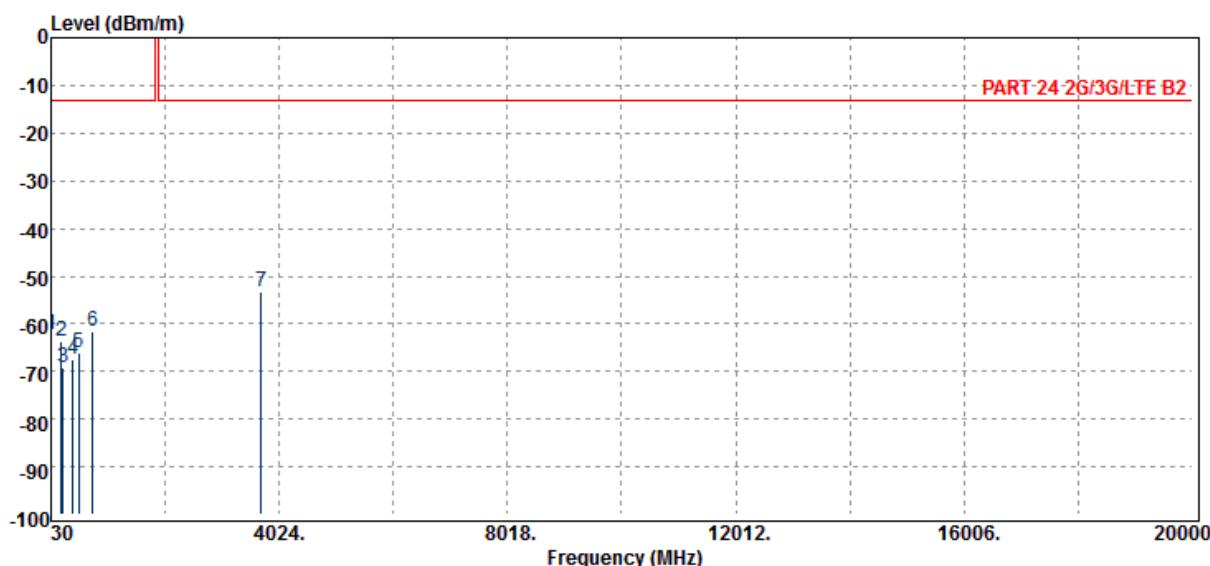
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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-62.39	-48.80	-48.80	-12.63	-0.96	-13.00	-49.39
207.51	S	-63.59	-67.50	-67.50	5.57	-1.66	-13.00	-50.59
246.31	S	-69.12	-72.91	-72.91	5.53	-1.75	-13.00	-56.12
410.24	S	-67.35	-70.88	-70.88	5.93	-2.40	-13.00	-54.35
516.94	S	-66.22	-69.77	-69.77	5.91	-2.37	-13.00	-53.22
764.29	S	-61.49	-63.88	-63.88	5.38	-2.99	-13.00	-48.49
3710.00	H	-53.22	-59.09	-59.09	12.44	-6.58	-13.00	-40.22

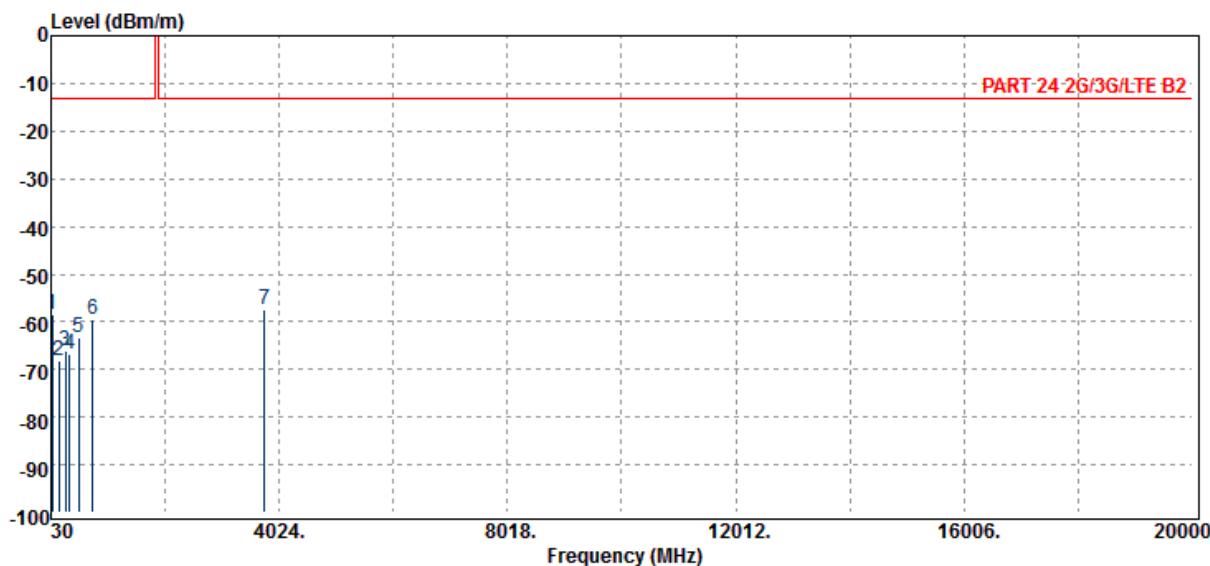
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Operation Band :LTE B2  
 Fundamental Frequency :1880.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-58.63	-49.53	-49.53	-8.03	-1.06	-13.00	-45.63
168.71	S	-68.09	-67.72	-67.72	1.15	-1.51	-13.00	-55.09
282.20	S	-66.02	-69.71	-69.71	5.57	-1.89	-13.00	-53.02
361.74	S	-66.72	-70.59	-70.59	6.00	-2.14	-13.00	-53.72
517.91	S	-63.35	-66.89	-66.89	5.91	-2.37	-13.00	-50.35
755.56	S	-59.67	-61.97	-61.97	5.35	-3.04	-13.00	-46.67
3760.00	H	-57.35	-63.20	-63.20	12.45	-6.60	-13.00	-44.35

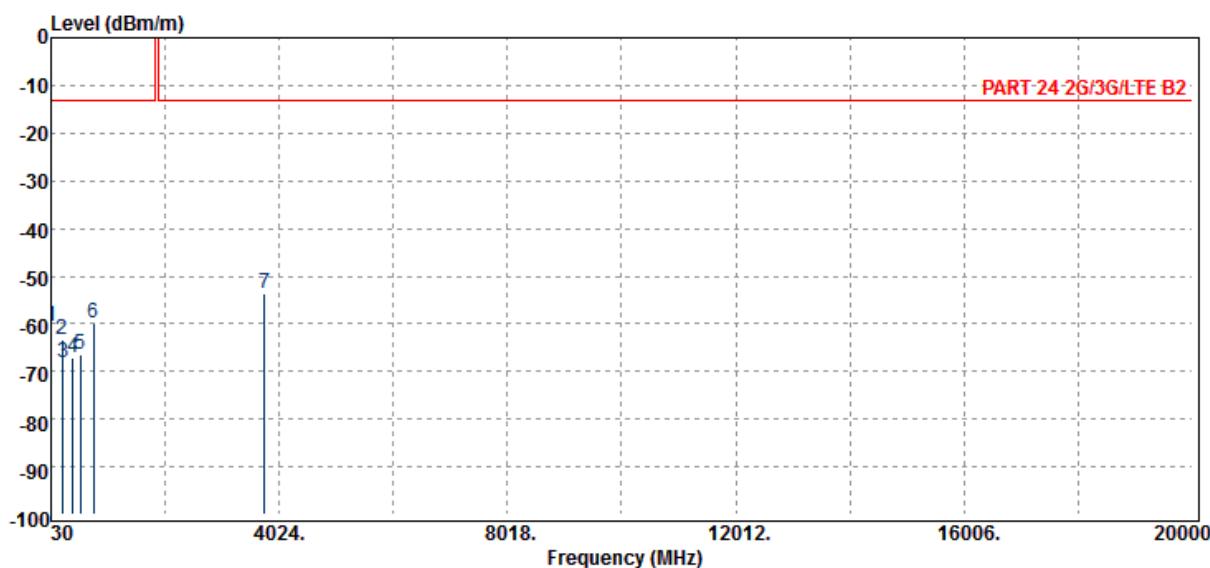
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Operation Band :LTE B2  
 Fundamental Frequency :1880.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-60.47	-46.88	-46.88	-12.63	-0.96	-13.00	-47.47
219.15	S	-63.37	-67.17	-67.17	5.49	-1.70	-13.00	-50.37
240.49	S	-68.01	-71.71	-71.71	5.44	-1.74	-13.00	-55.01
406.36	S	-66.99	-70.52	-70.52	5.95	-2.42	-13.00	-53.99
539.25	S	-66.46	-69.66	-69.66	5.79	-2.59	-13.00	-53.46
770.11	S	-59.96	-62.40	-62.40	5.40	-2.95	-13.00	-46.96
3760.00	H	-53.72	-59.58	-59.58	12.45	-6.60	-13.00	-40.72

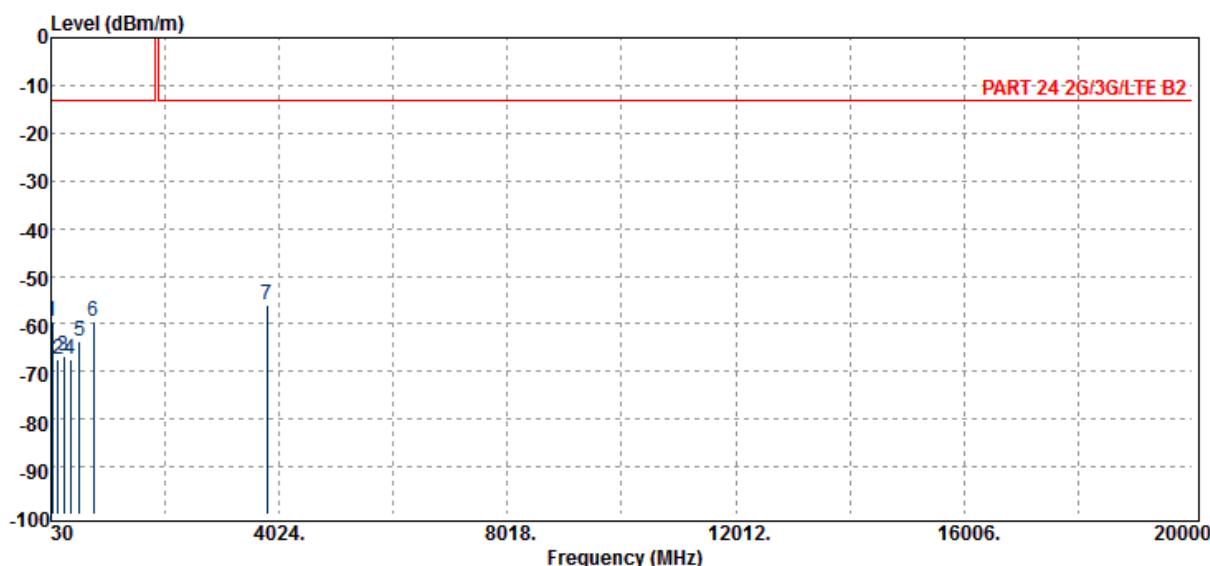
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Operation Band :LTE B2  
 Fundamental Frequency :1905.0 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output	Level				
54.25	S	-59.35	-50.25	-8.03	-1.06	-13.00	-46.35	
159.01	S	-67.50	-66.50	0.47	-1.47	-13.00	-54.50	
248.25	S	-66.91	-70.72	5.56	-1.75	-13.00	-53.91	
376.29	S	-67.48	-71.23	5.99	-2.24	-13.00	-54.48	
527.61	S	-63.64	-67.02	5.86	-2.47	-13.00	-50.64	
769.14	S	-59.40	-61.83	5.39	-2.96	-13.00	-46.40	
3810.00	H	-56.10	-61.95	12.46	-6.62	-13.00	-43.10	

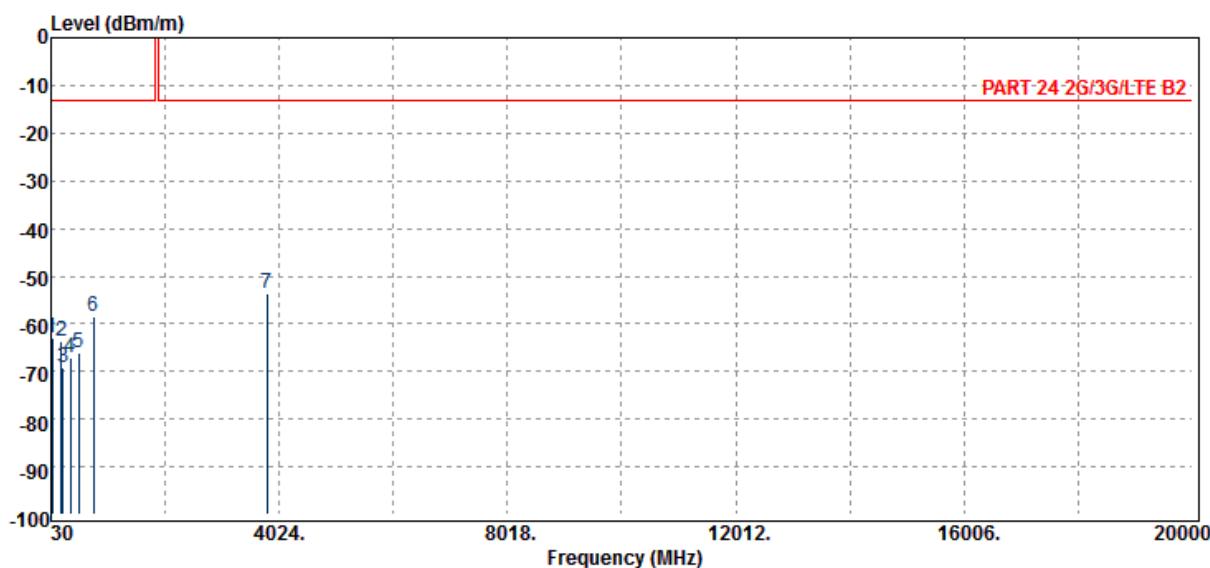
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Operation Band :LTE B2  
 Fundamental Frequency :1905.0 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output	Level				
54.25	S	-62.84	-53.75	-8.03	-1.06	-13.00	-49.84	
207.51	S	-63.52	-67.43	5.57	-1.66	-13.00	-50.52	
246.31	S	-69.22	-73.00	5.53	-1.75	-13.00	-56.22	
366.59	S	-67.08	-70.90	6.00	-2.17	-13.00	-54.08	
517.91	S	-66.18	-69.72	5.91	-2.37	-13.00	-53.18	
773.99	S	-58.35	-60.83	5.41	-2.93	-13.00	-45.35	
3810.00	H	-53.50	-59.34	12.46	-6.62	-13.00	-40.50	

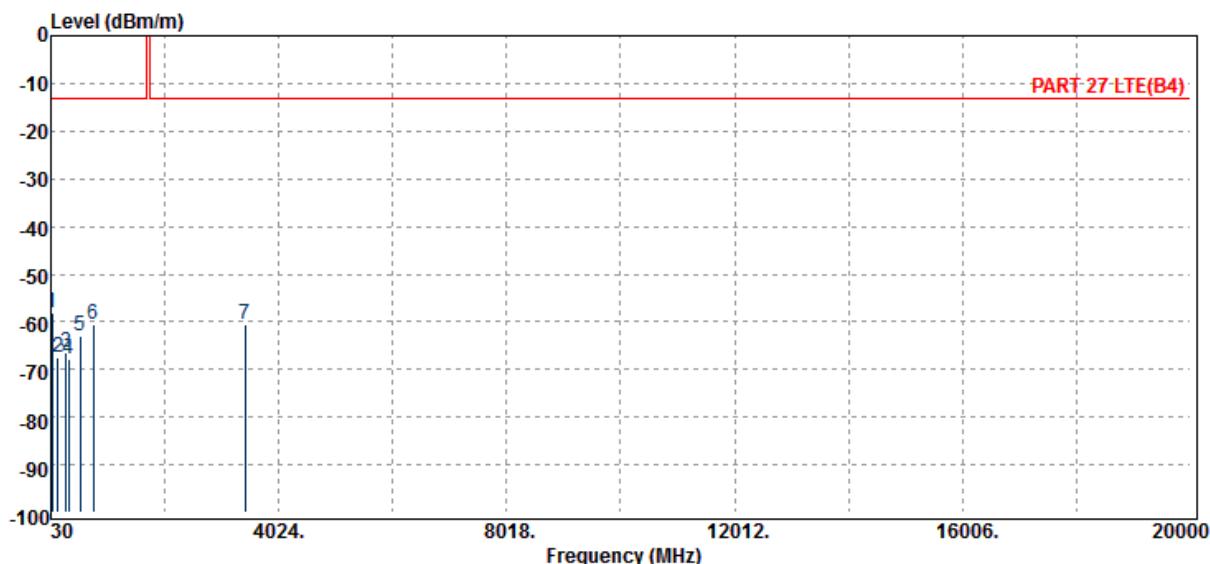
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**Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)**

Operation Band :LTE B4 Temp./Humi. :23 deg\_C / 62 RH  
 Fundamental Frequency :1715 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 10M QPSK RB 1,0  
 EUT Pol. :H Plane Measurement Antenna :VERTICAL  
 Pol.



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-57.97	-48.87	-48.87	-8.03	-1.06	-13.00	-44.97
154.16	S	-67.57	-66.36	-66.36	0.25	-1.45	-13.00	-54.57
296.75	S	-66.54	-70.30	-70.30	5.71	-1.95	-13.00	-53.54
337.49	S	-67.69	-71.69	-71.69	5.95	-1.95	-13.00	-54.69
537.31	S	-62.85	-66.08	-66.08	5.80	-2.57	-13.00	-49.85
773.99	S	-60.54	-63.02	-63.02	5.41	-2.93	-13.00	-47.54
3440.00	H	-60.50	-66.58	-66.58	12.30	-6.22	-13.00	-47.50

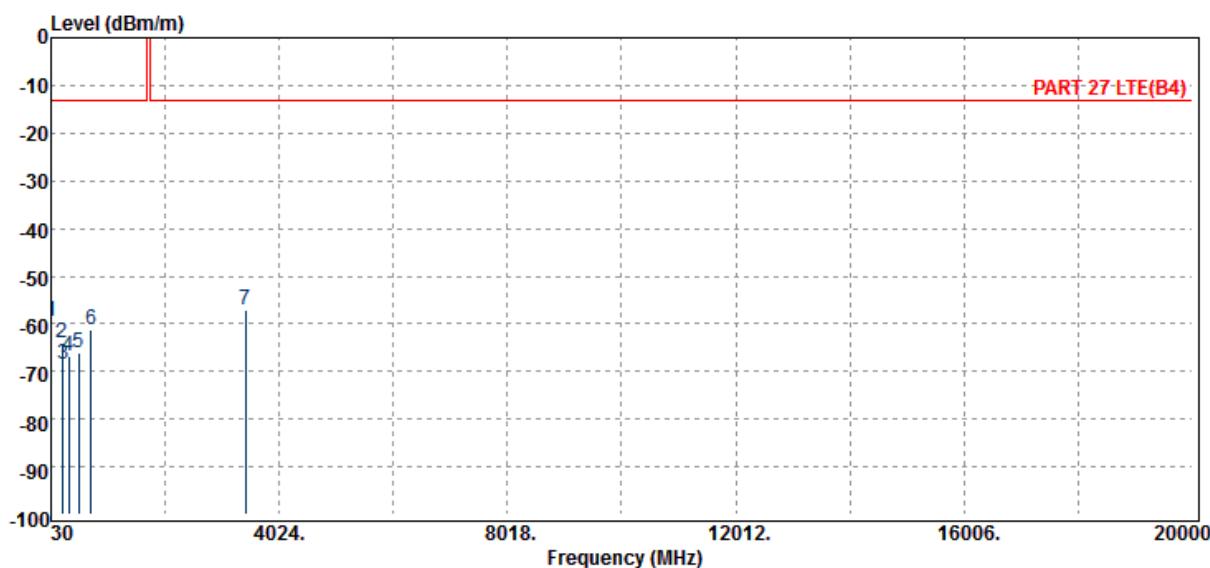
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Operation Band :LTE B4  
 Fundamental Frequency :1715 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-59.57	-45.98	-45.98	-12.63	-0.96	-13.00	-46.57
220.12	S	-63.85	-67.62	-67.62	5.48	-1.70	-13.00	-50.85
239.52	S	-68.59	-72.28	-72.28	5.43	-1.74	-13.00	-55.59
335.55	S	-66.62	-70.63	-70.63	5.95	-1.93	-13.00	-53.62
519.85	S	-66.00	-69.50	-69.50	5.90	-2.39	-13.00	-53.00
733.25	S	-61.17	-63.35	-63.35	5.30	-3.12	-13.00	-48.17
3440.00	H	-56.93	-63.01	-63.01	12.30	-6.22	-13.00	-43.93

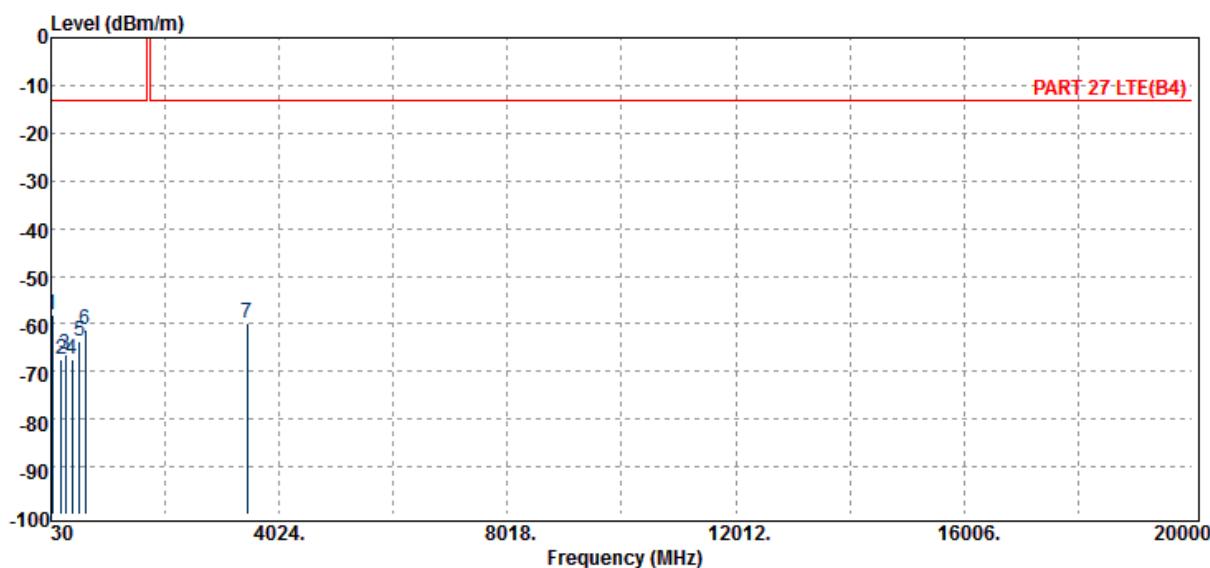
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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-58.11	-49.02	-49.02	-8.03	-1.06	-13.00	-45.11
212.36	S	-67.34	-71.29	-71.29	5.63	-1.68	-13.00	-54.34
285.11	S	-66.45	-70.13	-70.13	5.58	-1.90	-13.00	-53.45
400.54	S	-67.52	-71.10	-71.10	5.97	-2.38	-13.00	-54.52
527.61	S	-63.75	-67.14	-67.14	5.86	-2.47	-13.00	-50.75
624.61	S	-61.08	-63.92	-63.92	5.34	-2.51	-13.00	-48.08
3465.00	H	-59.88	-65.98	-65.98	12.34	-6.25	-13.00	-46.88

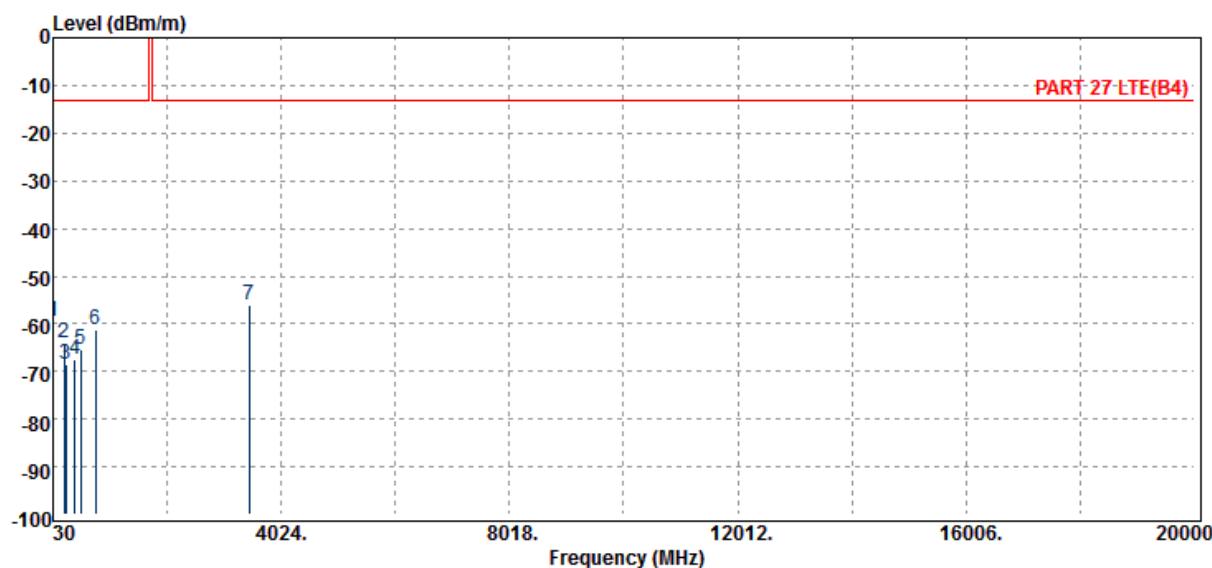
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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output	Level				
30.00	S	-59.41	-45.82	-45.82	-12.63	-0.96	-13.00	-46.41
219.15	S	-63.89	-67.69	-67.69	5.49	-1.70	-13.00	-50.89
251.16	S	-68.57	-72.43	-72.43	5.62	-1.76	-13.00	-55.57
410.24	S	-67.45	-70.99	-70.99	5.93	-2.40	-13.00	-54.45
519.85	S	-65.41	-68.92	-68.92	5.90	-2.39	-13.00	-52.41
770.11	S	-61.15	-63.60	-63.60	5.40	-2.95	-13.00	-48.15
3465.00	H	-56.10	-62.20	-62.20	12.34	-6.25	-13.00	-43.10

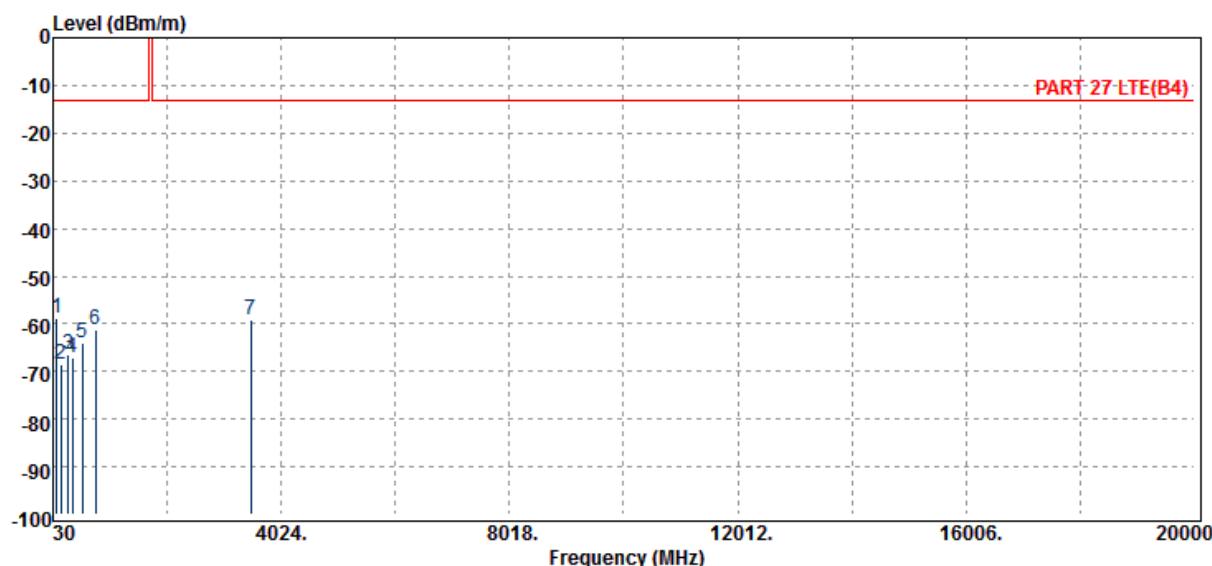
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Operation Band :LTE B4  
 Fundamental Frequency :1750 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
95.96	S	-58.99	-58.75	0.99	-1.23	-13.00	-45.99	
165.80	S	-68.51	-67.95	0.94	-1.50	-13.00	-55.51	
294.81	S	-66.26	-69.99	5.67	-1.94	-13.00	-53.26	
369.50	S	-67.25	-71.05	6.00	-2.20	-13.00	-54.25	
542.16	S	-63.87	-67.03	5.78	-2.62	-13.00	-50.87	
774.96	S	-61.14	-63.63	5.41	-2.92	-13.00	-48.14	
3490.00	H	-59.03	-65.06	12.38	-6.35	-13.00	-46.03	

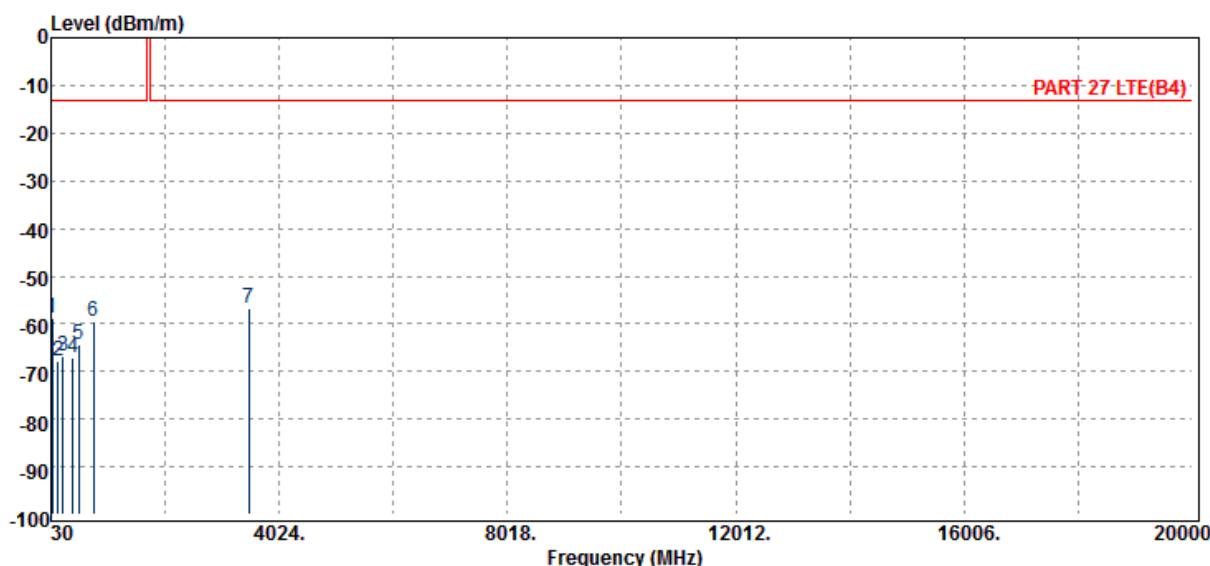
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Operation Band :LTE B4  
 Fundamental Frequency :1750 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-58.84	-49.75	-49.75	-8.03	-1.06	-13.00	-45.84
154.16	S	-67.88	-66.68	-66.68	0.25	-1.45	-13.00	-54.88
239.52	S	-66.66	-70.35	-70.35	5.43	-1.74	-13.00	-53.66
415.09	S	-67.15	-70.70	-70.70	5.92	-2.37	-13.00	-54.15
519.85	S	-64.29	-67.79	-67.79	5.90	-2.39	-13.00	-51.29
769.14	S	-59.44	-61.87	-61.87	5.39	-2.96	-13.00	-46.44
3490.00	H	-56.78	-62.81	-62.81	12.38	-6.35	-13.00	-43.78

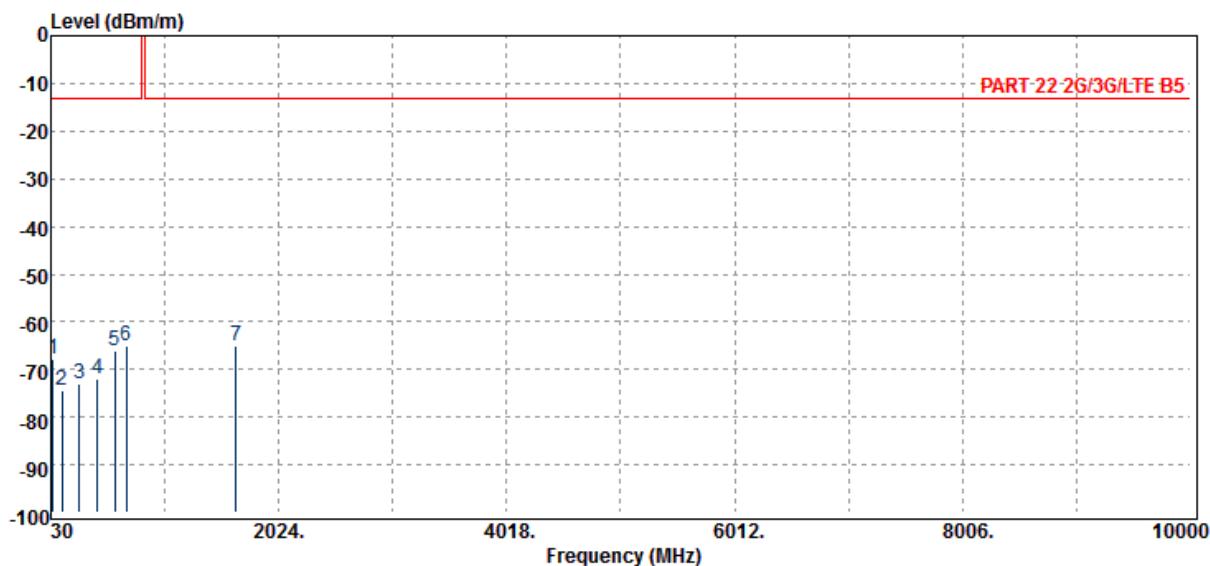
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**Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)**

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
48.43	S	-65.66	-55.12	-55.12	-9.50	-1.04	-13	-52.66
124.09	S	-72.10	-70.39	-70.39	-0.37	-1.34	-13	-59.10
278.32	S	-70.70	-74.42	-74.42	5.59	-1.87	-13	-57.70
438.37	S	-69.74	-73.35	-73.35	5.83	-2.22	-13	-56.74
592.60	S	-64.05	-66.70	-66.70	5.44	-2.79	-13	-51.05
692.51	S	-62.91	-65.31	-65.31	5.24	-2.84	-13	-49.91
1653.00	H	-63.05	-68.08	-68.08	9.27	-4.24	-13	-50.05

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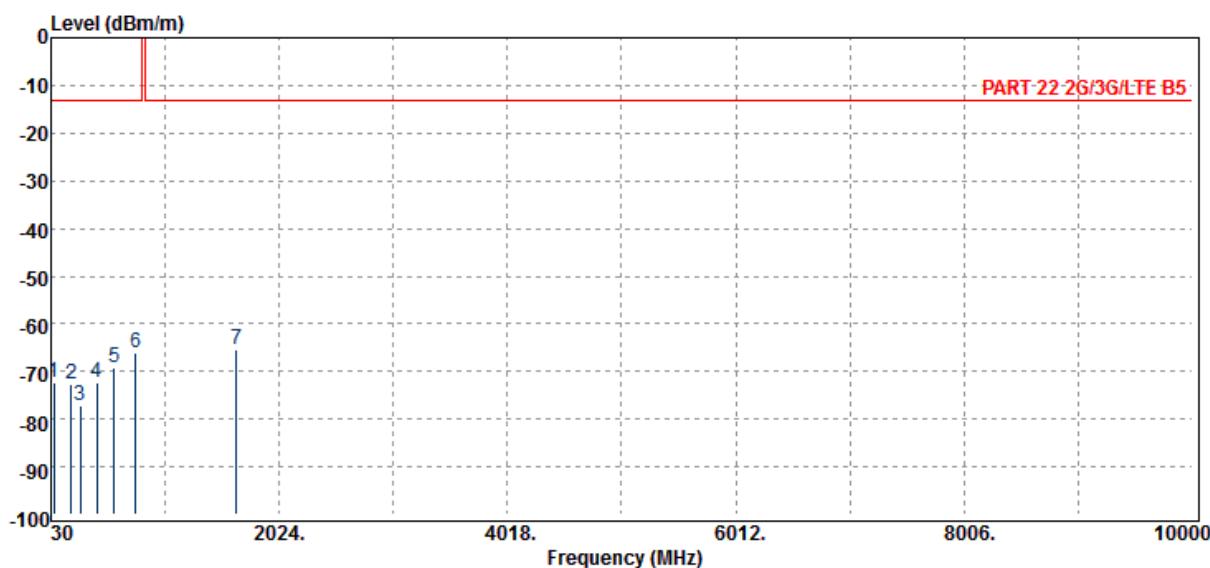
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f (886-2) 2298-0488

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



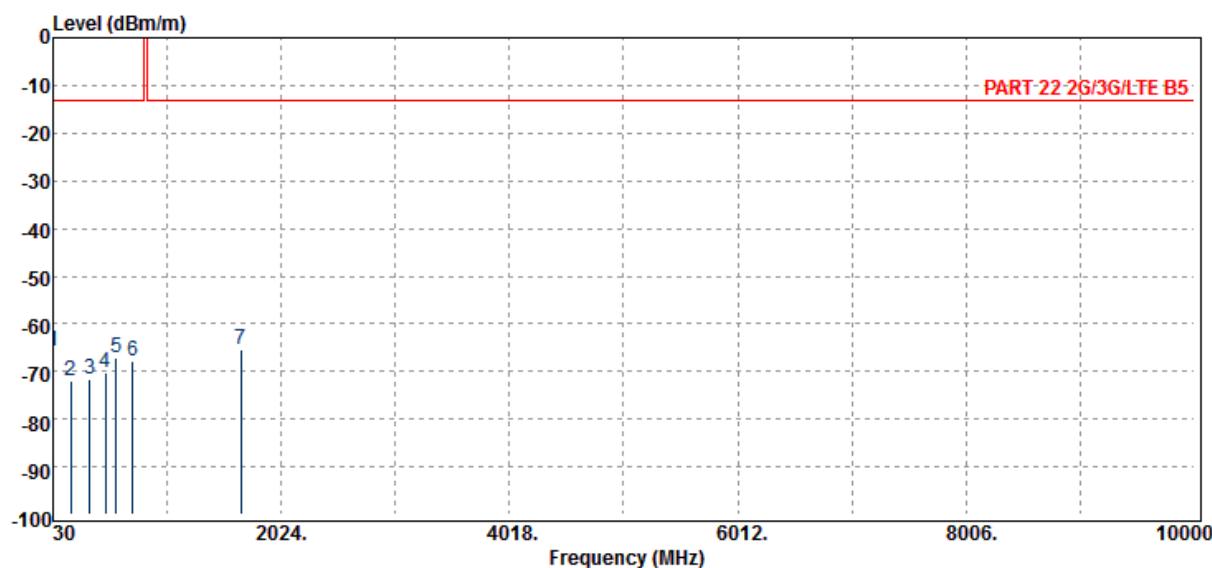
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
56.19	S	-70.23	-61.62	-7.54	-1.07	-13	-57.23	
203.63	S	-70.38	-74.14	5.41	-1.65	-13	-57.38	
287.05	S	-74.93	-78.60	5.58	-1.91	-13	-61.93	
430.61	S	-70.08	-73.68	5.86	-2.26	-13	-57.08	
581.93	S	-67.16	-69.88	5.51	-2.79	-13	-54.16	
770.11	S	-63.83	-66.28	5.40	-2.95	-13	-50.83	
1653.00	H	-63.23	-68.26	9.27	-4.24	-13	-50.23	

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



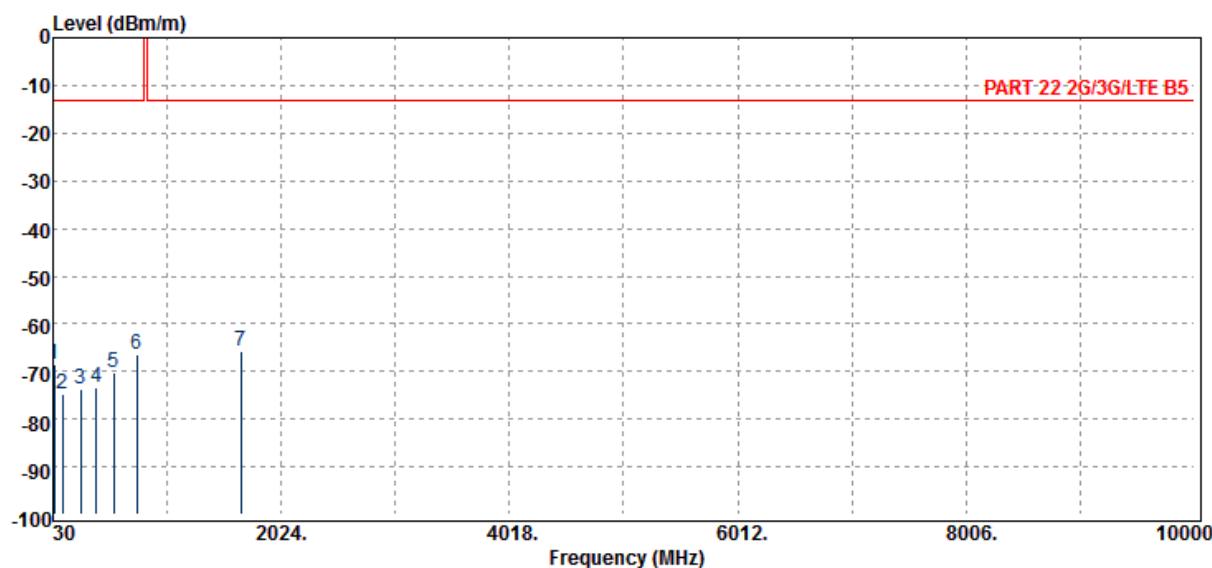
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Antenna Gain dBi				
34.85	S	-63.70	-51.21	-11.52	-0.97	-13	-50.70	
187.14	S	-69.98	-72.63	4.24	-1.59	-13	-56.98	
348.16	S	-69.56	-73.53	6.00	-2.03	-13	-56.56	
484.93	S	-68.06	-71.76	5.95	-2.25	-13	-55.06	
579.02	S	-65.13	-67.88	5.53	-2.78	-13	-52.13	
722.58	S	-65.58	-67.77	5.28	-3.09	-13	-52.58	
1673.00	H	-63.08	-68.14	9.35	-4.29	-13	-50.08	

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



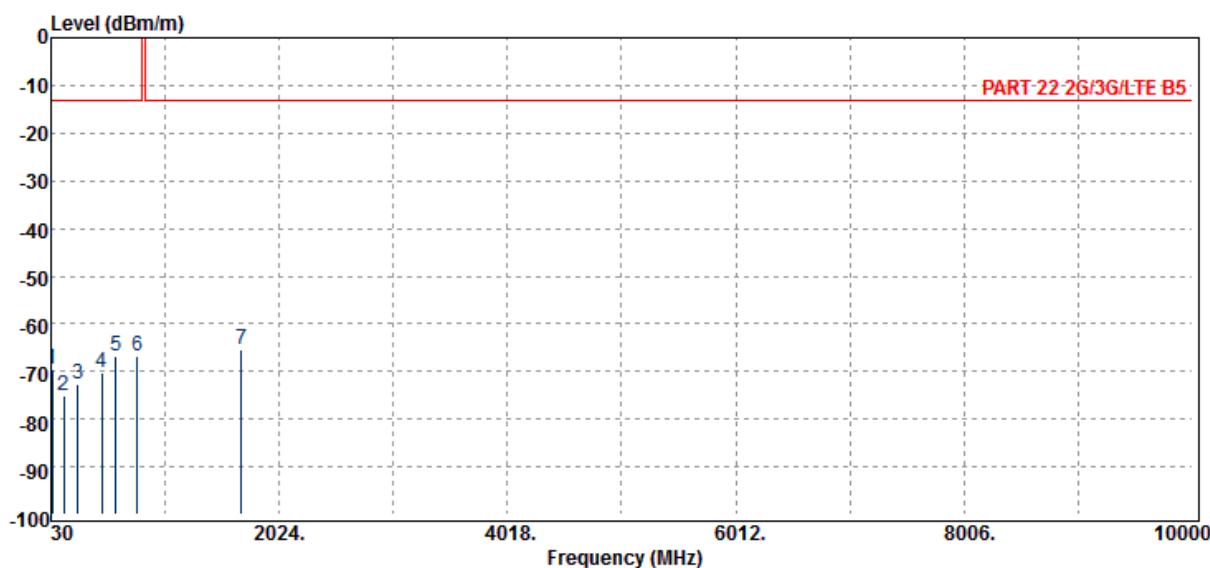
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
42.61	S	-66.23	-54.68	-10.54	-1.01	-13	-53.23	
112.45	S	-72.68	-71.05	-0.33	-1.30	-13	-59.68	
272.50	S	-71.51	-75.31	5.64	-1.84	-13	-58.51	
407.33	S	-71.26	-74.78	5.94	-2.42	-13	-58.26	
563.50	S	-68.02	-70.90	5.64	-2.76	-13	-55.02	
764.29	S	-64.27	-66.66	5.38	-2.99	-13	-51.27	
1673.00	H	-63.48	-68.54	9.35	-4.29	-13	-50.48	

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Operation Band :LTE B5  
 Fundamental Frequency :846.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



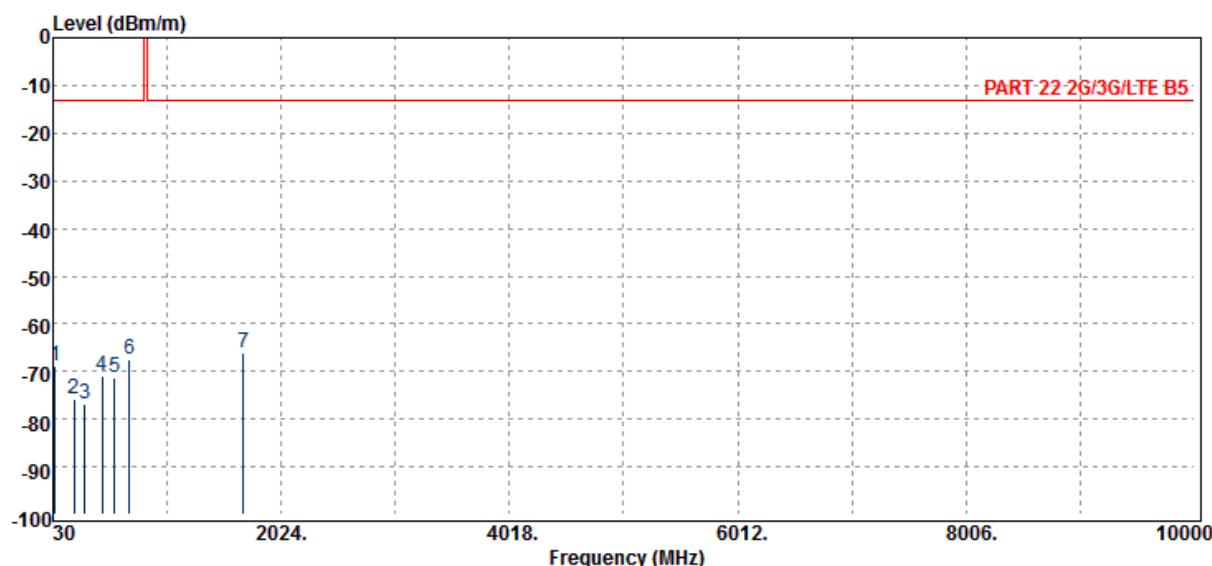
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Antenna Gain dBi				
43.58	S	-67.47	-56.06	-10.40	-1.01	-13	-54.47	
143.49	S	-72.88	-71.14	-0.33	-1.41	-13	-59.88	
262.80	S	-70.46	-74.45	5.78	-1.79	-13	-57.46	
476.20	S	-68.05	-71.73	5.91	-2.23	-13	-55.05	
595.51	S	-64.72	-67.37	5.42	-2.77	-13	-51.72	
785.63	S	-64.71	-67.25	5.45	-2.91	-13	-51.71	
1693.00	H	-63.20	-68.32	9.42	-4.30	-13	-50.20	

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Operation Band :LTE B5  
 Fundamental Frequency :846.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
48.43	S	-66.68	-56.14	-56.14	-9.50	-1.04	-13	-53.68
217.21	S	-73.63	-77.47	-77.47	5.53	-1.69	-13	-60.63
308.39	S	-74.53	-78.41	-78.41	5.82	-1.94	-13	-61.53
458.74	S	-68.84	-72.47	-72.47	5.83	-2.20	-13	-55.84
566.41	S	-69.28	-72.13	-72.13	5.62	-2.77	-13	-56.28
697.36	S	-65.47	-67.77	-67.77	5.23	-2.93	-13	-52.47
1693.00	H	-63.86	-68.98	-68.98	9.42	-4.30	-13	-50.86

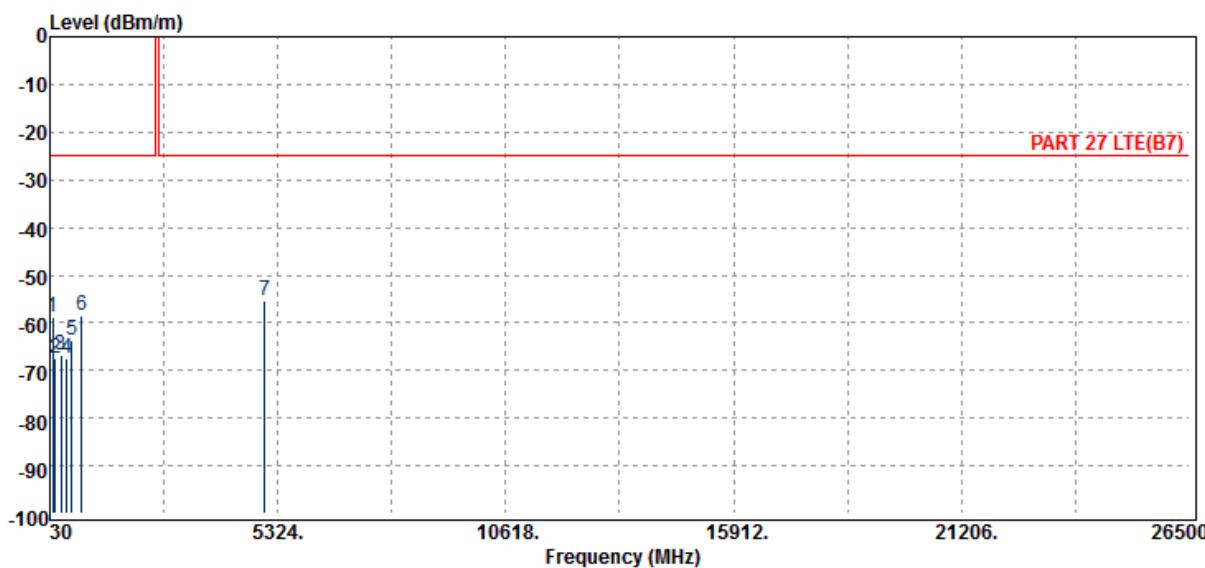
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**Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)**

Operation Band :LTE B7 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :2507.5 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 15M 16QAM RB  
 1,74  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
94.99	S	-58.75	-58.63	1.11	-1.23	-25.00	-33.75
158.04	S	-67.59	-66.55	0.42	-1.47	-25.00	-42.59
294.81	S	-66.91	-70.63	5.67	-1.94	-25.00	-41.91
419.94	S	-67.37	-70.94	5.90	-2.33	-25.00	-42.37
537.31	S	-63.71	-66.95	5.80	-2.57	-25.00	-38.71
772.05	S	-58.53	-60.99	5.40	-2.94	-25.00	-33.53
5015.00	H	-55.26	-60.15	12.71	-7.81	-25.00	-30.26

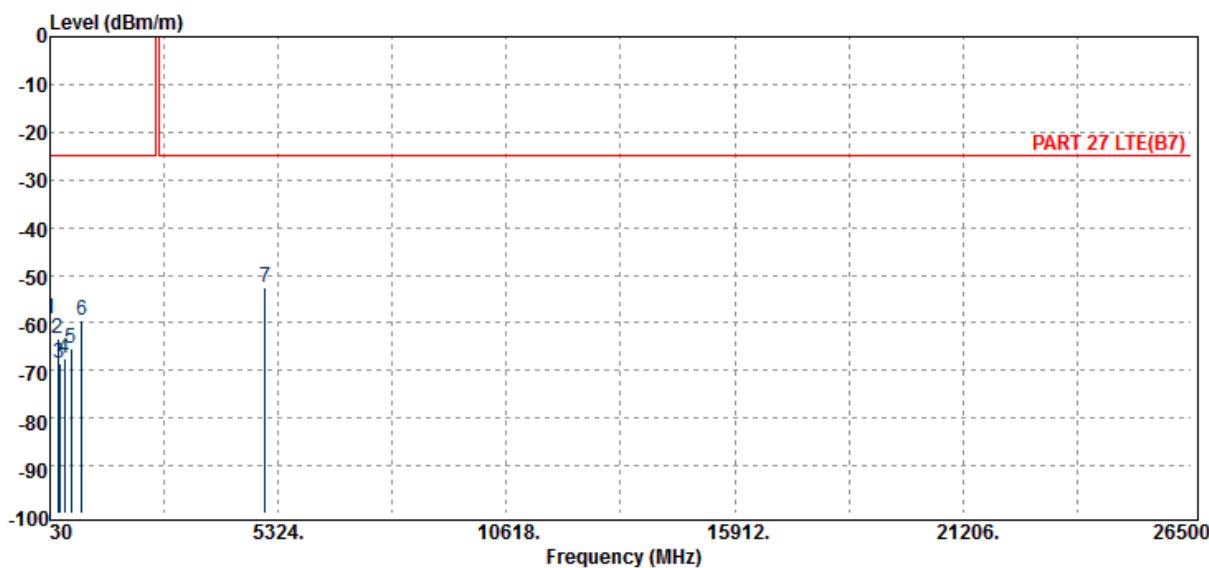
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Operation Band :LTE B7  
 Fundamental Frequency :2507.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
30.00	S	-59.08	-45.49	-12.63	-0.96	-25.00	-34.08
220.12	S	-63.27	-67.04	5.48	-1.70	-25.00	-38.27
251.16	S	-68.47	-72.33	5.62	-1.76	-25.00	-43.47
372.41	S	-67.40	-71.18	5.99	-2.21	-25.00	-42.40
519.85	S	-65.34	-68.85	5.90	-2.39	-25.00	-40.34
769.14	S	-59.64	-62.07	5.39	-2.96	-25.00	-34.64
5015.00	H	-52.58	-57.48	12.71	-7.81	-25.00	-27.58

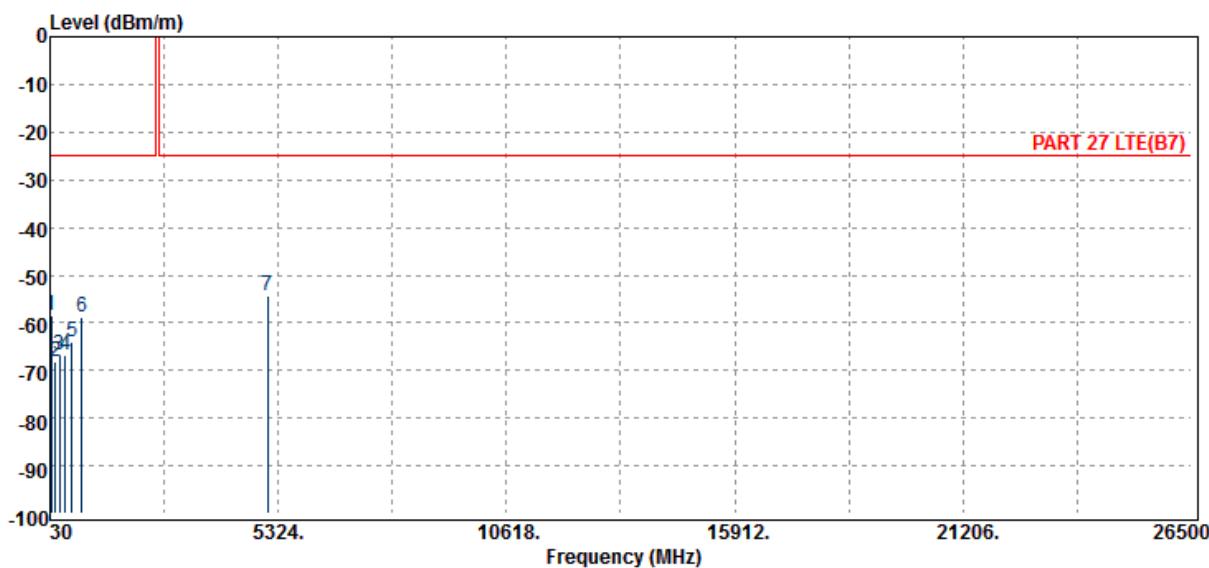
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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
53.28	S	-58.51	-49.16	-8.29	-1.06	-25.00	-33.51
153.19	S	-68.00	-66.76	0.20	-1.44	-25.00	-43.00
241.46	S	-66.93	-70.65	5.46	-1.74	-25.00	-41.93
390.84	S	-66.67	-70.32	5.98	-2.33	-25.00	-41.67
529.55	S	-63.90	-67.26	5.85	-2.49	-25.00	-38.90
769.14	S	-58.88	-61.32	5.39	-2.96	-25.00	-33.88
5070.00	H	-54.29	-59.16	12.73	-7.86	-25.00	-29.29

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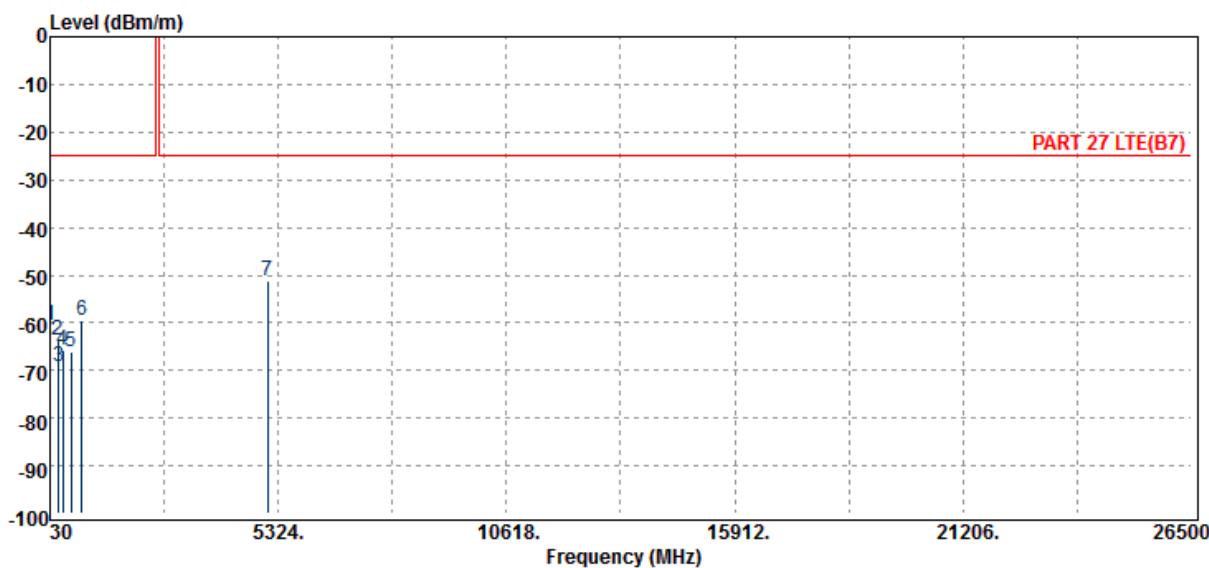
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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
30.00	S	-60.50	-46.91	-12.63	-0.96	-25.00	-35.50
216.24	S	-63.59	-67.45	5.55	-1.69	-25.00	-38.59
240.49	S	-69.17	-72.87	5.44	-1.74	-25.00	-44.17
335.55	S	-65.81	-69.83	5.95	-1.93	-25.00	-40.81
516.94	S	-66.10	-69.65	5.91	-2.37	-25.00	-41.10
769.14	S	-59.40	-61.84	5.39	-2.96	-25.00	-34.40
5070.00	H	-51.09	-55.96	12.73	-7.86	-25.00	-26.09

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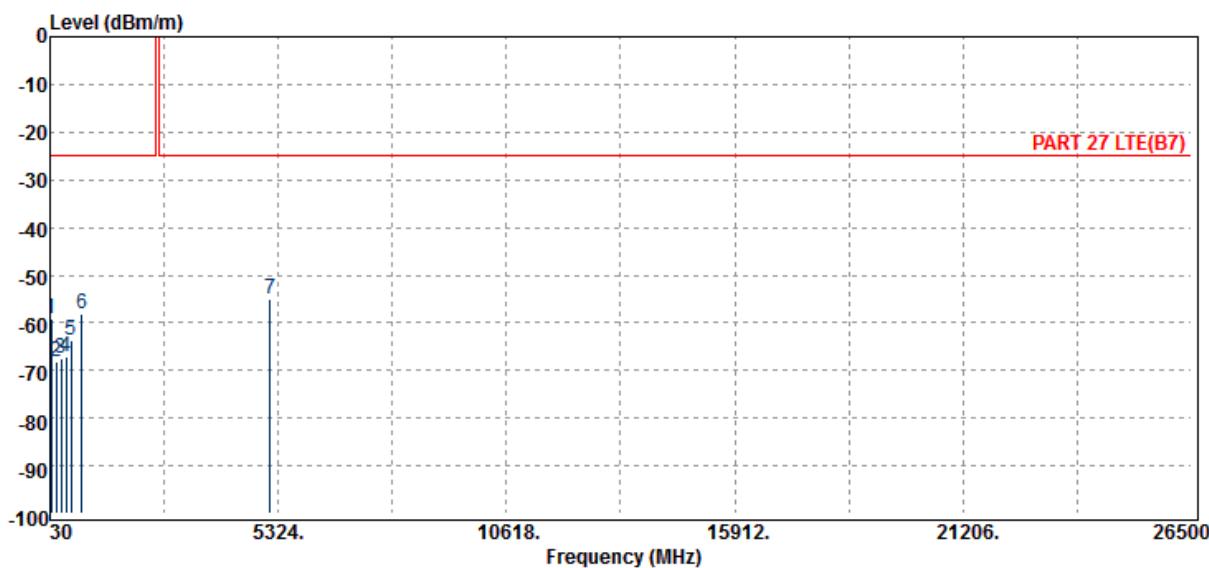
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Operation Band :LTE B7  
 Fundamental Frequency :2562.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
52.31	S	-59.17	-49.56	-8.55	-1.05	-25.00	-34.17
178.41	S	-68.14	-69.34	2.76	-1.55	-25.00	-43.14
288.99	S	-67.51	-71.17	5.58	-1.92	-25.00	-42.51
396.66	S	-67.16	-70.77	5.97	-2.36	-25.00	-42.16
512.09	S	-63.50	-67.09	5.94	-2.35	-25.00	-38.50
773.99	S	-58.07	-60.56	5.41	-2.93	-25.00	-33.07
5125.00	H	-54.96	-59.81	12.75	-7.91	-25.00	-29.96

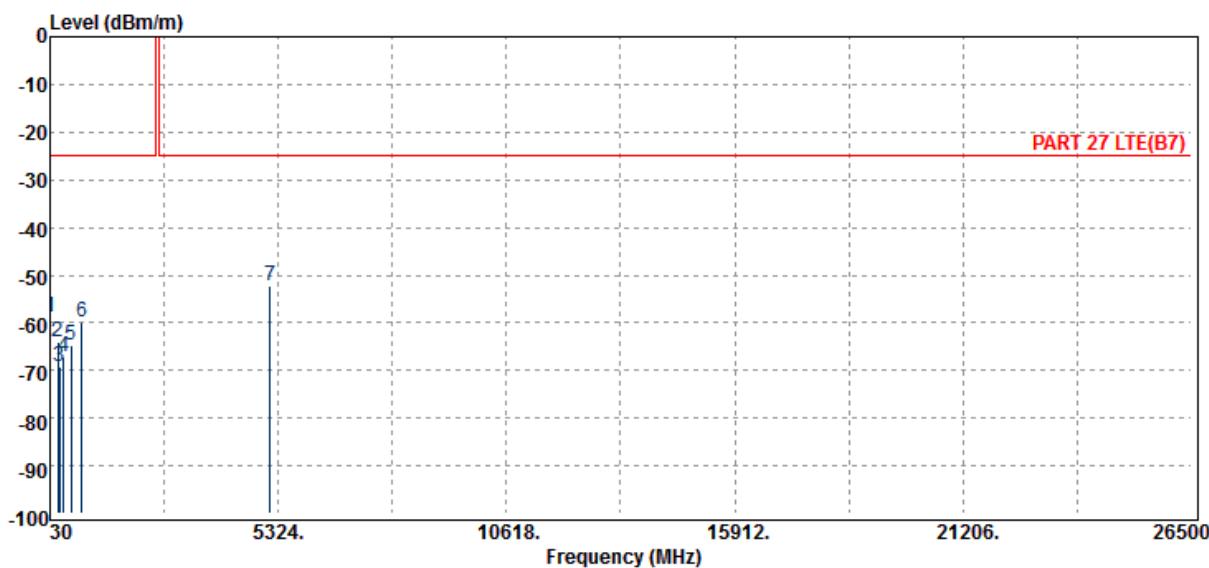
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Operation Band :LTE B7  
 Fundamental Frequency :2562.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
30.00	S	-58.71	-45.12	-12.63	-0.96	-25.00	-33.71
220.12	S	-64.14	-67.91	5.48	-1.70	-25.00	-39.14
243.40	S	-69.11	-72.85	5.49	-1.75	-25.00	-44.11
340.40	S	-67.07	-71.07	5.97	-1.97	-25.00	-42.07
513.06	S	-64.80	-68.38	5.94	-2.35	-25.00	-39.80
772.05	S	-59.82	-62.28	5.40	-2.94	-25.00	-34.82
5125.00	H	-52.17	-57.02	12.75	-7.91	-25.00	-27.17

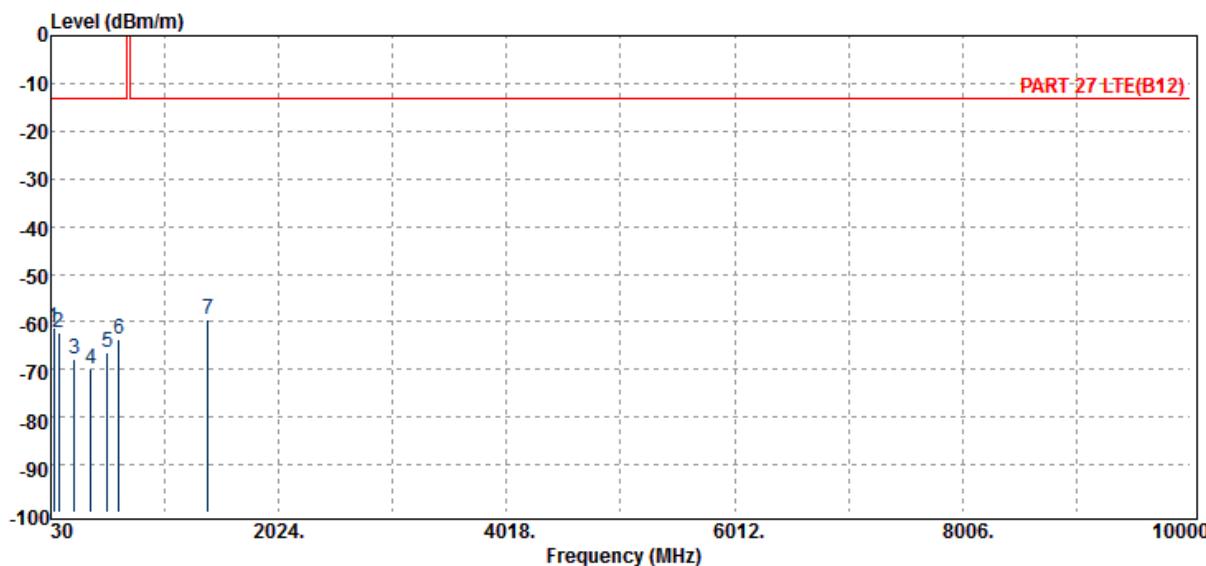
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**Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)**

Operation Band :LTE B12 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :700.5 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 3M QPSK RB 1,14  
 EUT Pol. :E2 Plane Measurement Antenna :VERTICAL  
 Pol.



Freq. MHz	Note	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			F/H/E/S					
55.22	S	-59.07		-50.23	-7.78	-1.06	-13	-46.07
94.99	S	-60.06		-59.94	1.11	-1.23	-13	-47.06
236.61	S	-65.54		-69.19	5.38	-1.73	-13	-52.54
379.20	S	-67.76		-71.49	5.99	-2.26	-13	-54.76
522.76	S	-64.20		-67.66	5.88	-2.42	-13	-51.20
621.70	S	-61.44		-64.26	5.35	-2.53	-13	-48.44
1401.00	H	-57.44		-63.98	10.43	-3.89	-13	-44.44

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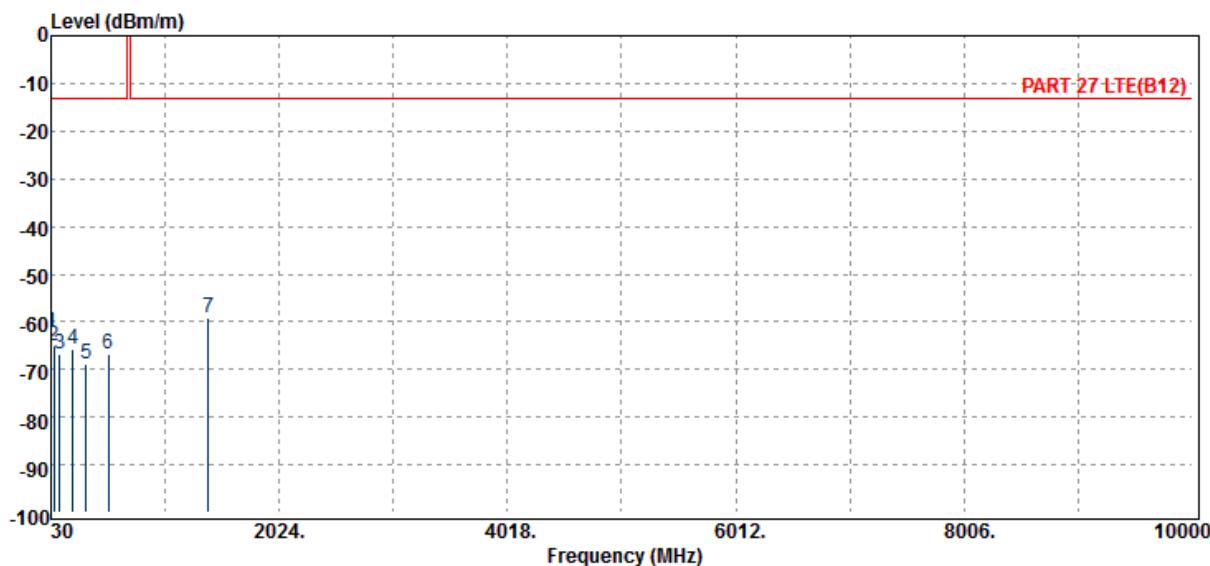
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Operation Band :LTE B12  
 Fundamental Frequency :700.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 3M QPSK RB 1,14  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-60.28	-46.69	-46.69	-12.63	-0.96	-13	-47.28
54.25	S	-62.78	-53.69	-53.69	-8.03	-1.06	-13	-49.78
102.75	S	-64.63	-63.65	-63.65	0.28	-1.26	-13	-51.63
219.15	S	-63.65	-67.44	-67.44	5.49	-1.70	-13	-50.65
337.49	S	-66.77	-70.77	-70.77	5.95	-1.95	-13	-53.77
529.55	S	-64.71	-68.07	-68.07	5.85	-2.49	-13	-51.71
1401.00	H	-57.03	-63.57	-63.57	10.43	-3.89	-13	-44.03

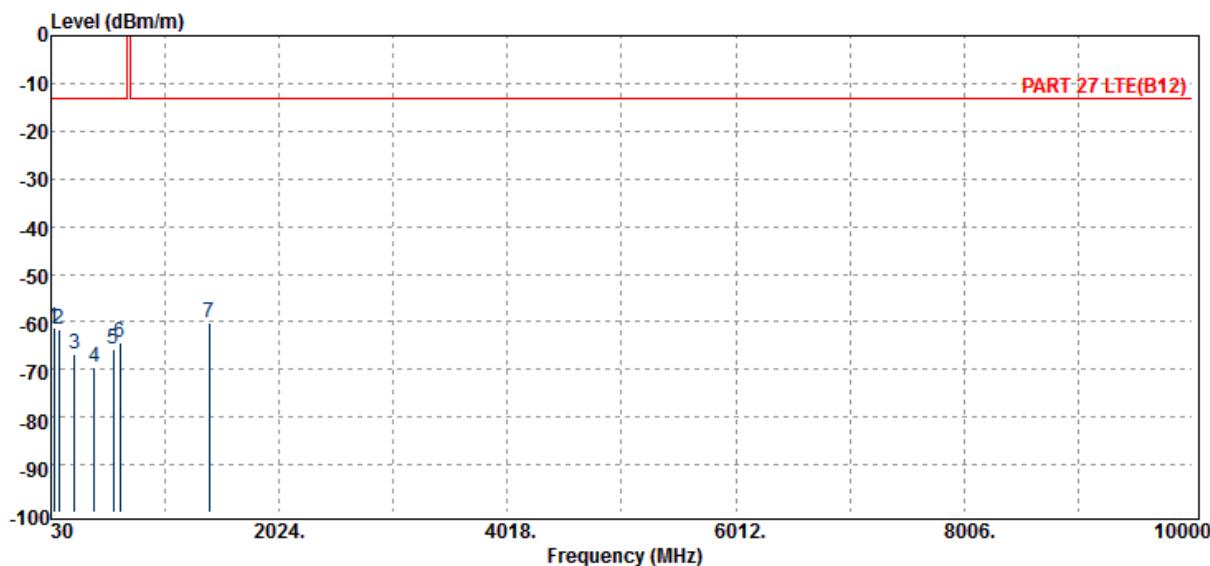
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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 3M QPSK RB 1,14  
 Measurement Pol. Antenna :VERTICAL



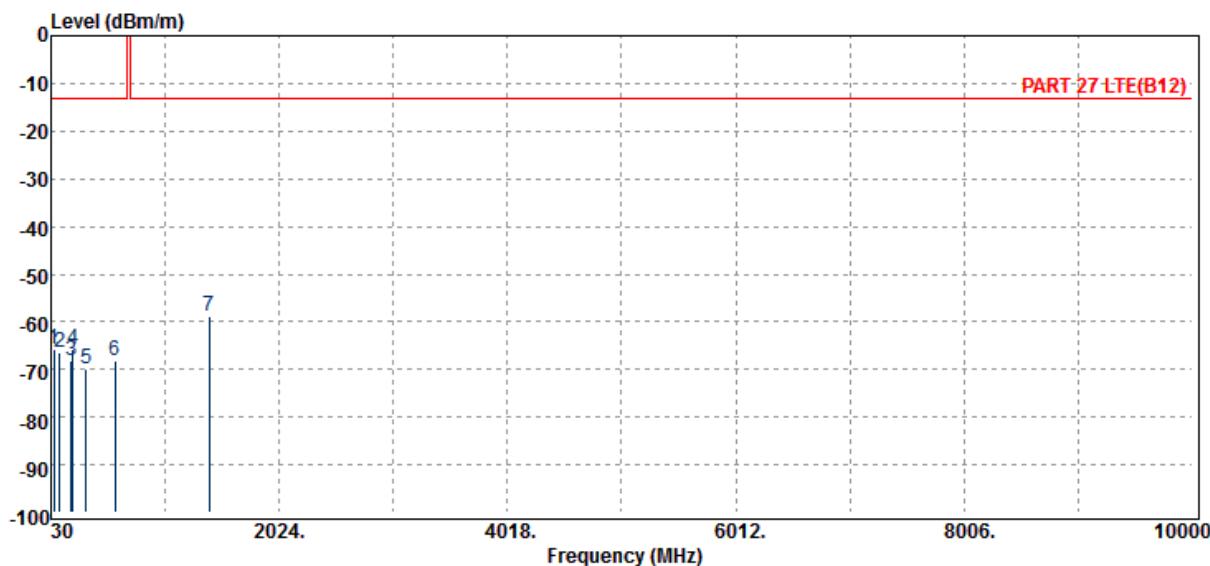
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
55.22	S	-59.03	-50.19	-50.19	-7.78	-1.06	-13	-46.03
94.99	S	-59.59	-59.47	-59.47	1.11	-1.23	-13	-46.59
236.61	S	-64.79	-68.44	-68.44	5.38	-1.73	-13	-51.79
408.30	S	-67.33	-70.86	-70.86	5.94	-2.41	-13	-54.33
578.05	S	-63.58	-66.34	-66.34	5.54	-2.78	-13	-50.58
634.31	S	-62.25	-65.12	-65.12	5.32	-2.45	-13	-49.25
1415.00	H	-58.08	-64.66	-64.66	10.49	-3.91	-13	-45.08

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 3M QPSK RB 1,14  
 Measurement Pol. Antenna :HORIZONTAL



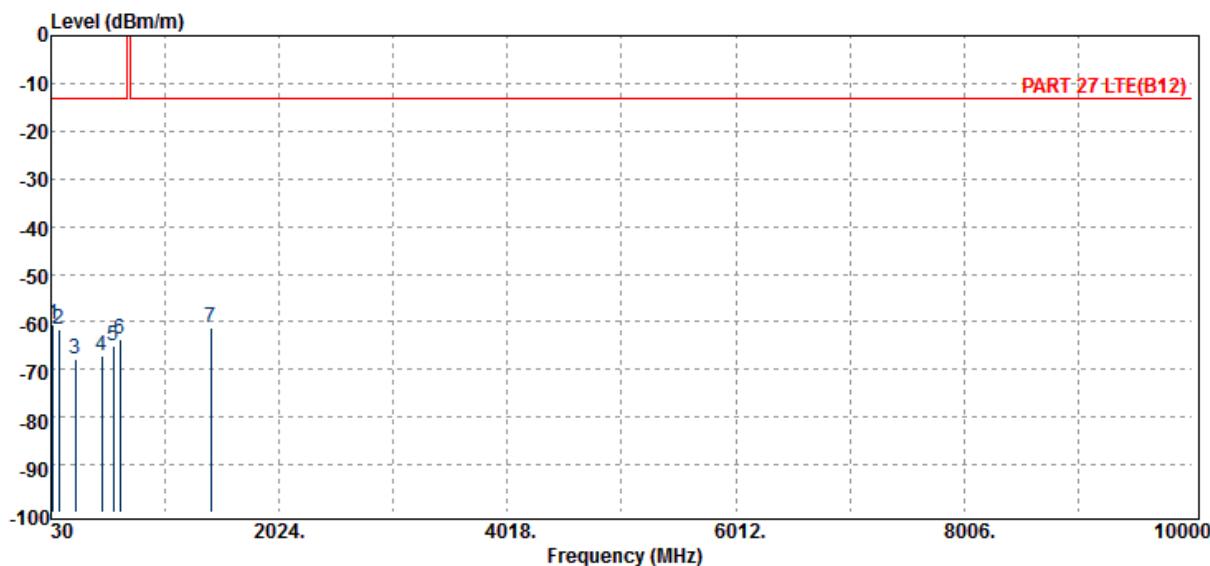
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-63.66	-54.57	-54.57	-8.03	-1.06	-13	-50.66
102.75	S	-64.21	-63.23	-63.23	0.28	-1.26	-13	-51.21
204.60	S	-65.92	-69.72	-69.72	5.45	-1.65	-13	-52.92
222.06	S	-63.46	-67.18	-67.18	5.43	-1.71	-13	-50.46
338.46	S	-67.64	-71.65	-71.65	5.96	-1.95	-13	-54.64
585.81	S	-65.95	-68.65	-68.65	5.49	-2.79	-13	-52.95
1415.00	H	-56.63	-63.21	-63.21	10.49	-3.91	-13	-43.63

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Operation Band :LTE B12  
 Fundamental Frequency :714.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 3M QPSK RB 1,14  
 Measurement Pol. Antenna :VERTICAL



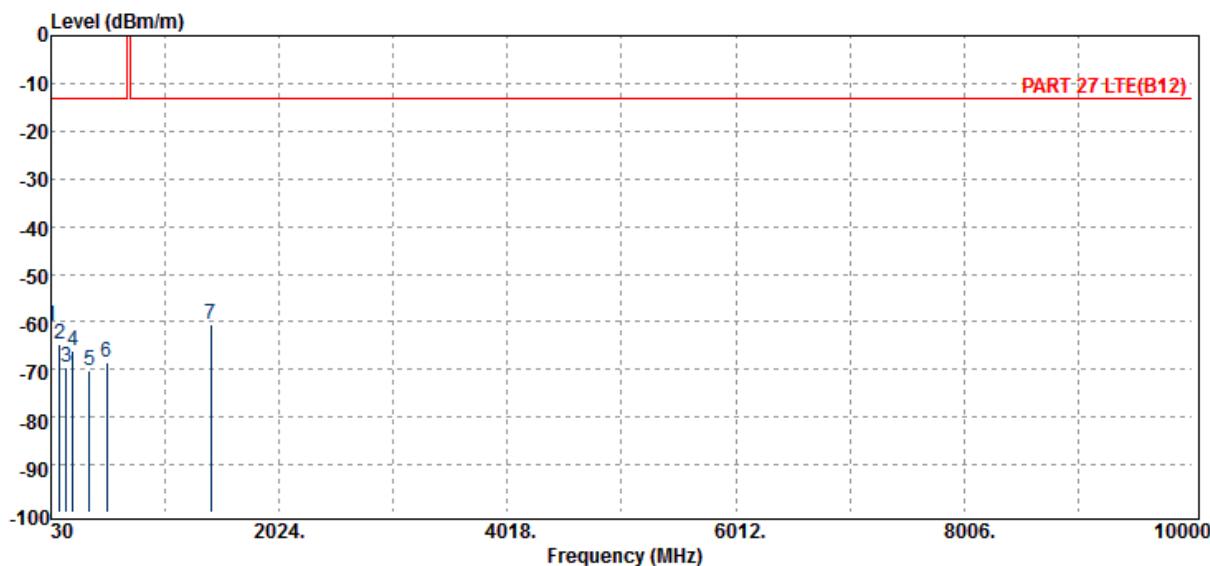
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
51.34	S	-58.31	-48.44	-8.82	-1.05	-13	-45.31	
94.99	S	-59.47	-59.35	1.11	-1.23	-13	-46.47	
240.49	S	-65.51	-69.21	5.44	-1.74	-13	-52.51	
473.29	S	-64.98	-68.65	5.90	-2.23	-13	-51.98	
578.05	S	-62.86	-65.62	5.54	-2.78	-13	-49.86	
634.31	S	-61.66	-64.53	5.32	-2.45	-13	-48.66	
1429.00	H	-58.95	-65.56	10.55	-3.94	-13	-45.95	

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Operation Band :LTE B12  
 Fundamental Frequency :714.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 3M QPSK RB 1,14  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-58.93	-45.34	-45.34	-12.63	-0.96	-13	-45.93
103.72	S	-62.52	-61.46	-61.46	0.20	-1.26	-13	-49.52
160.95	S	-67.51	-66.61	-66.61	0.58	-1.48	-13	-54.51
219.15	S	-64.05	-67.84	-67.84	5.49	-1.70	-13	-51.05
362.71	S	-68.15	-72.00	-72.00	6.00	-2.15	-13	-55.15
517.91	S	-66.32	-69.86	-69.86	5.91	-2.37	-13	-53.32
1429.00	H	-58.34	-64.95	-64.95	10.55	-3.94	-13	-45.34

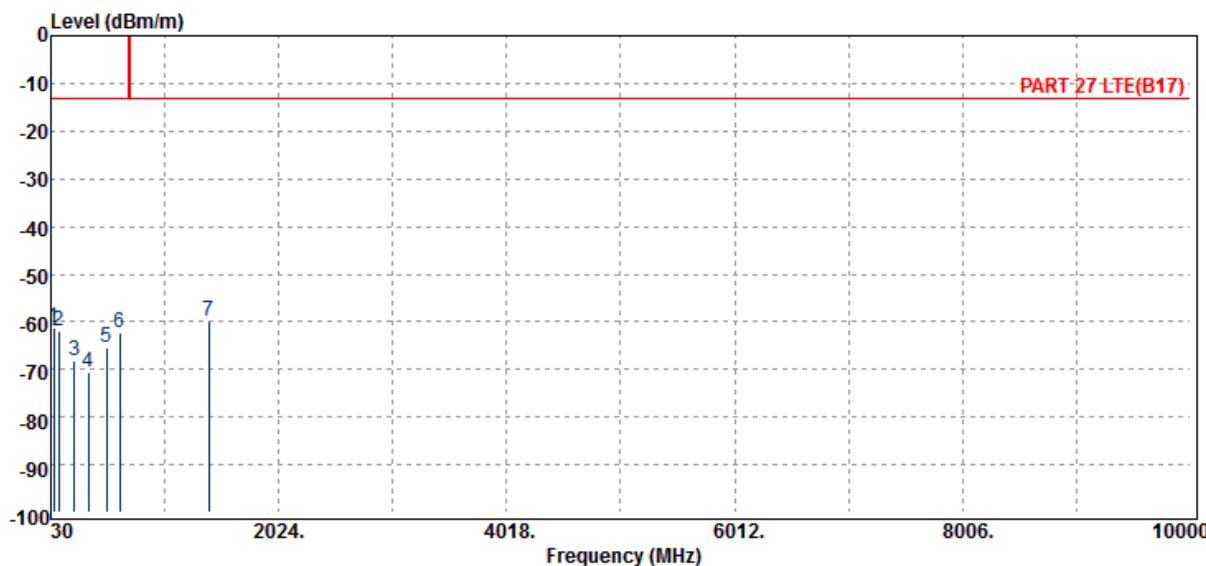
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**Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)**

Operation Band :LTE B17 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :706.5 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 5M 16QAM RB 1,24  
 EUT Pol. :E2 Plane Measurement Antenna :VERTICAL  
 Pol.



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
53.28	S	-59.00	-49.65	-49.65	-8.29	-1.06	-13	-46.00
94.99	S	-59.83	-59.71	-59.71	1.11	-1.23	-13	-46.83
233.70	S	-66.04	-69.64	-69.64	5.33	-1.73	-13	-53.04
356.89	S	-68.45	-72.36	-72.36	6.01	-2.10	-13	-55.45
519.85	S	-63.40	-66.91	-66.91	5.90	-2.39	-13	-50.40
633.34	S	-60.26	-63.12	-63.12	5.32	-2.46	-13	-47.26
1413.00	H	-57.78	-64.35	-64.35	10.48	-3.91	-13	-44.78

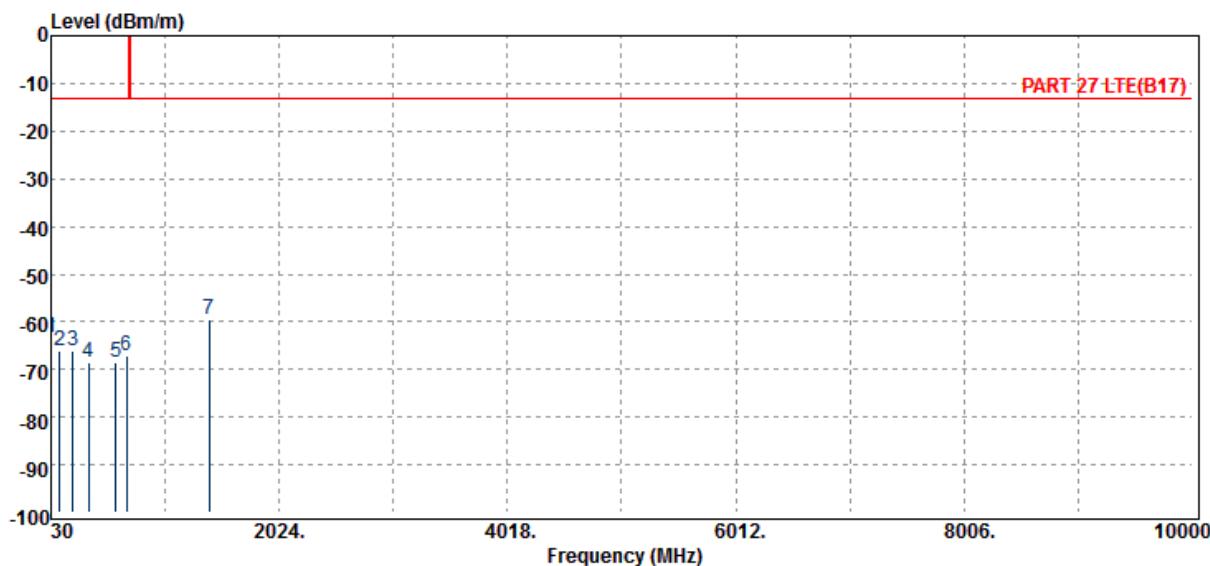
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Operation Band :LTE B17  
 Fundamental Frequency :706.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 5M 16QAM RB 1,24  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-61.21	-47.62	-47.62	-12.63	-0.96	-13	-48.21
104.69	S	-63.92	-62.76	-62.76	0.11	-1.27	-13	-50.92
222.06	S	-63.78	-67.50	-67.50	5.43	-1.71	-13	-50.78
357.86	S	-66.53	-70.42	-70.42	6.00	-2.11	-13	-53.53
594.54	S	-66.30	-68.95	-68.95	5.43	-2.78	-13	-53.30
686.69	S	-64.92	-67.43	-67.43	5.25	-2.74	-13	-51.92
1413.00	H	-57.31	-63.88	-63.88	10.48	-3.91	-13	-44.31

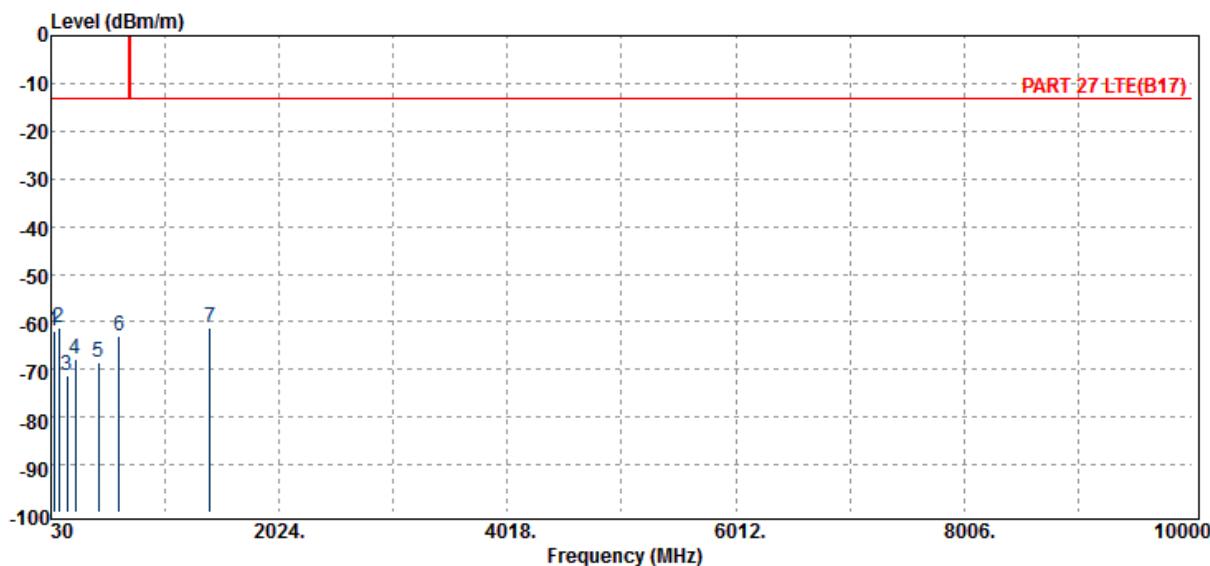
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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 5M 16QAM RB 1,24  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
54.25	S	-59.95	-50.86	-50.86	-8.03	-1.06	-13	-46.95
95.96	S	-59.13	-58.89	-58.89	0.99	-1.23	-13	-46.13
172.59	S	-69.15	-69.33	-69.33	1.71	-1.53	-13	-56.15
245.34	S	-65.61	-69.38	-69.38	5.52	-1.75	-13	-52.61
447.10	S	-66.22	-69.83	-69.83	5.80	-2.19	-13	-53.22
626.55	S	-60.88	-63.73	-63.73	5.34	-2.49	-13	-47.88
1420.00	H	-59.14	-65.73	-65.73	10.51	-3.92	-13	-46.14

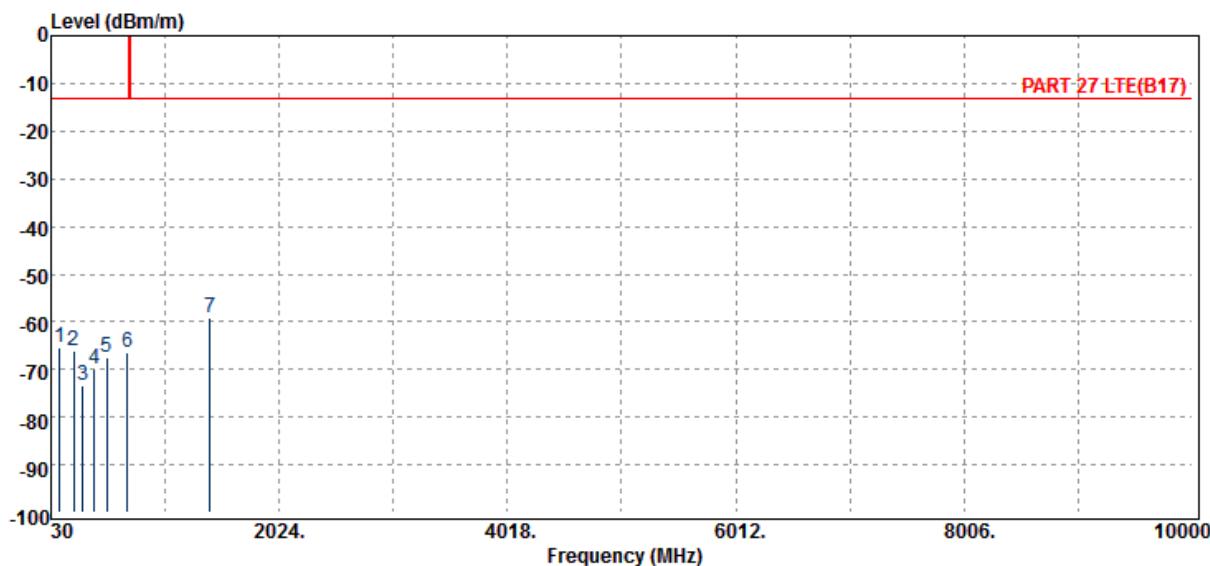
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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 5M 16QAM RB 1,24  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
104.69	S	-63.18	-62.02	-62.02	0.11	-1.27	-13	-50.18
231.76	S	-63.79	-67.35	-67.35	5.29	-1.73	-13	-50.79
308.39	S	-71.24	-75.12	-75.12	5.82	-1.94	-13	-58.24
410.24	S	-67.86	-71.39	-71.39	5.93	-2.40	-13	-54.86
519.85	S	-65.38	-68.89	-68.89	5.90	-2.39	-13	-52.38
696.39	S	-64.16	-66.49	-66.49	5.24	-2.91	-13	-51.16
1420.00	H	-56.99	-63.58	-63.58	10.51	-3.92	-13	-43.99

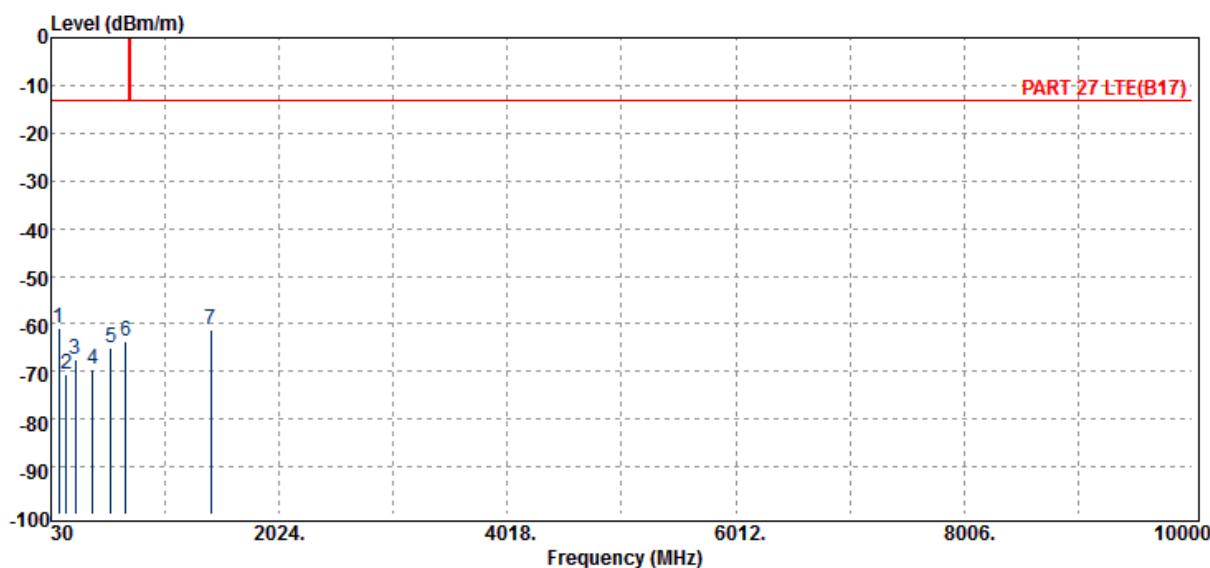
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Operation Band :LTE B17  
 Fundamental Frequency :713.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 5M 16QAM RB 1,24  
 Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
95.96	S	-58.80	-58.56	0.99	-1.23	-13	-45.80	
165.80	S	-68.42	-67.86	0.94	-1.50	-13	-55.42	
243.40	S	-65.38	-69.12	5.49	-1.75	-13	-52.38	
395.69	S	-67.48	-71.10	5.97	-2.35	-13	-54.48	
555.74	S	-62.81	-65.76	5.70	-2.75	-13	-49.81	
684.75	S	-61.58	-64.13	5.25	-2.70	-13	-48.58	
1427.00	H	-59.05	-65.66	10.54	-3.93	-13	-46.05	

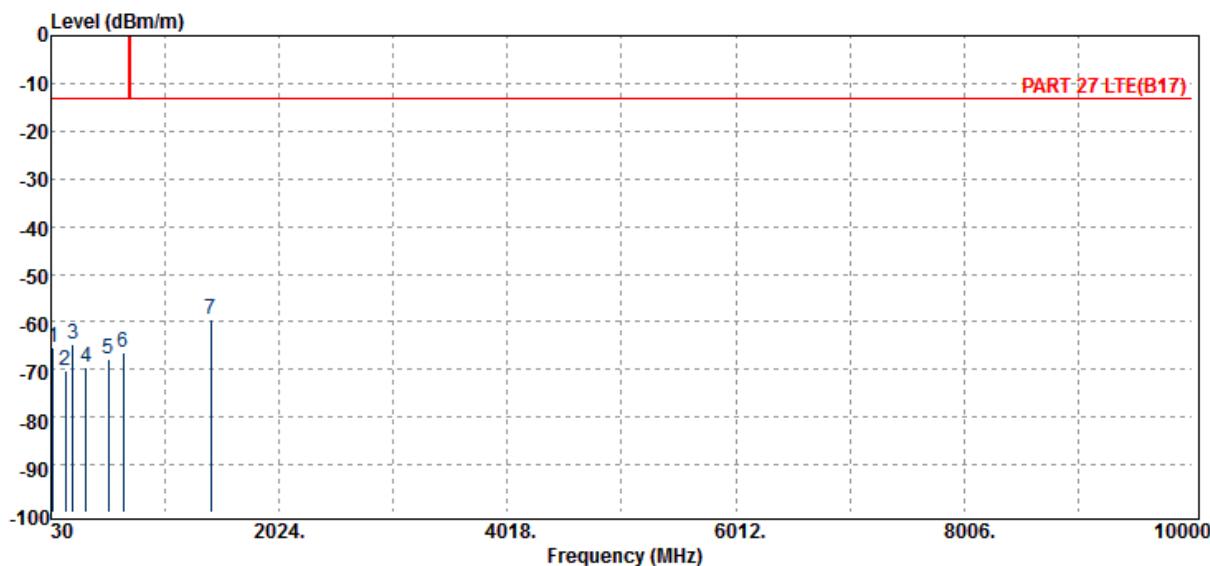
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Operation Band :LTE B17  
 Fundamental Frequency :713.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 5M 16QAM RB 1,24  
 Measurement Pol. Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
46.49	S	-63.35	-52.43	-9.89	-1.03	-13	-50.35	
154.16	S	-68.24	-67.04	0.25	-1.45	-13	-55.24	
224.00	S	-62.60	-66.28	5.39	-1.71	-13	-49.60	
335.55	S	-67.27	-71.29	5.95	-1.93	-13	-54.27	
531.49	S	-65.63	-68.96	5.84	-2.51	-13	-52.63	
660.50	S	-64.38	-67.28	5.28	-2.38	-13	-51.38	
1427.00	H	-57.53	-64.14	10.54	-3.93	-13	-44.53	

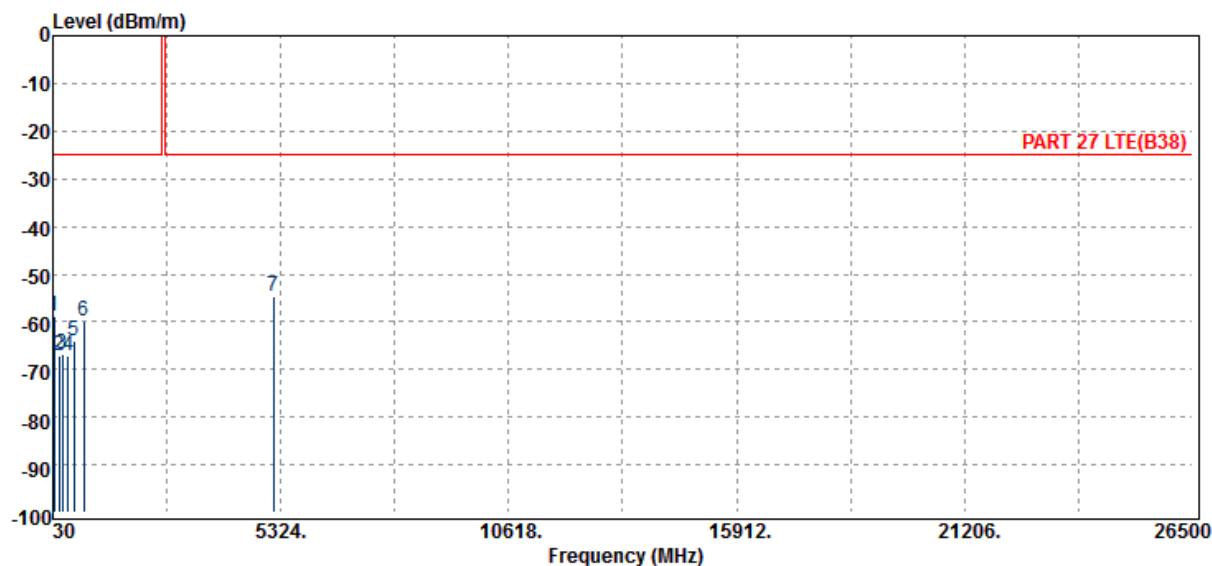
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**Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)**

Operation Band :LTE B38 Temp./Humi. :22 deg\_C / 61 RH  
 Fundamental Frequency :2575 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode :10M QPSK RB 1,49  
 EUT Pol. :H Plane Measurement Antenna :VERTICAL  
 Pol.



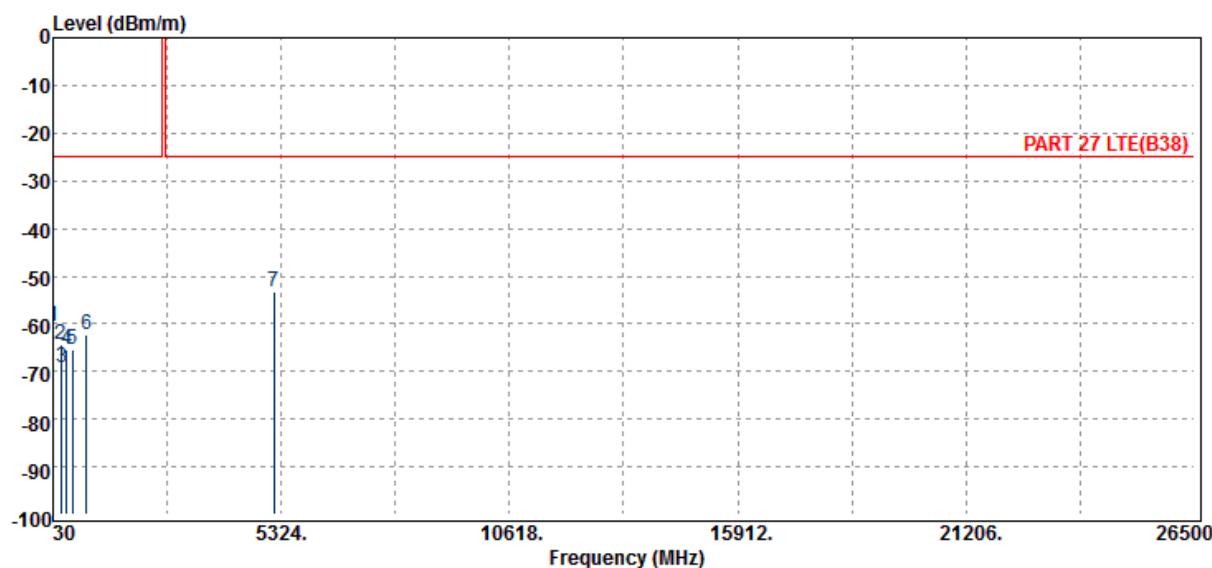
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
53.28	S	-58.93	-49.58	-49.58	-8.29	-1.06	-25.00	-33.93
177.44	S	-67.11	-68.15	-68.15	2.59	-1.55	-25.00	-42.11
245.34	S	-66.80	-70.56	-70.56	5.52	-1.75	-25.00	-41.80
377.26	S	-67.07	-70.82	-70.82	5.99	-2.24	-25.00	-42.07
527.61	S	-63.94	-67.32	-67.32	5.86	-2.47	-25.00	-38.94
749.74	S	-60.01	-62.26	-62.26	5.33	-3.08	-25.00	-35.01
5150.00	H	-54.81	-59.63	-59.63	12.76	-7.94	-25.00	-29.81

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2575 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW	Mode	:10M QPSK RB 1,49
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



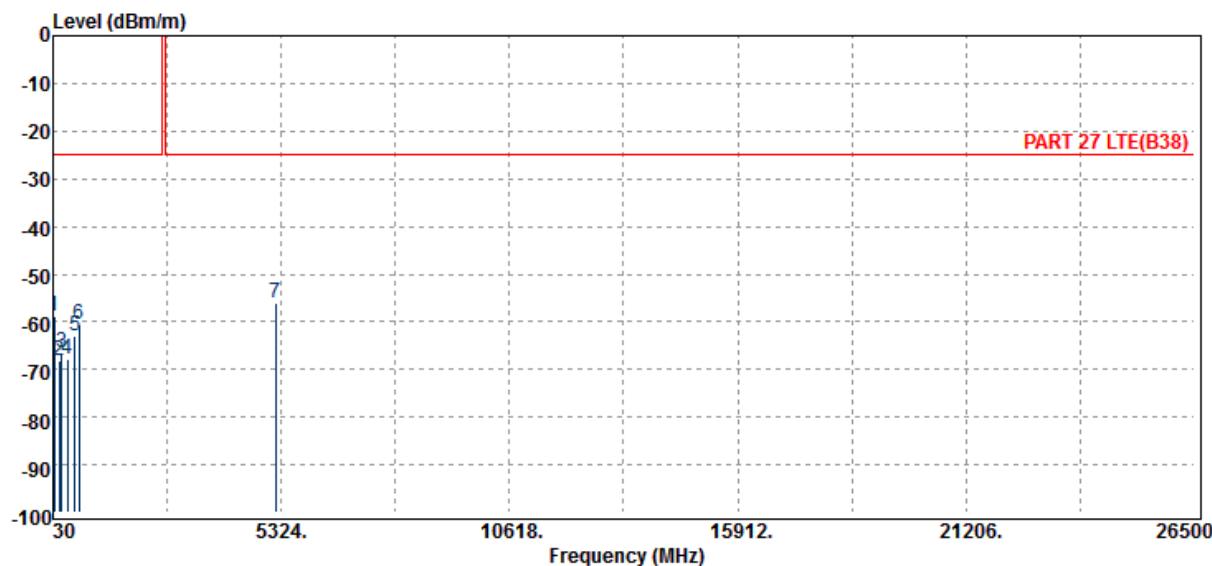
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
30.00	S	-60.68	-47.10	-47.10	-12.63	-0.96	-25.00	-35.68
217.21	S	-64.38	-68.21	-68.21	5.53	-1.69	-25.00	-39.38
239.52	S	-69.25	-72.93	-72.93	5.43	-1.74	-25.00	-44.25
337.49	S	-65.51	-69.52	-69.52	5.95	-1.95	-25.00	-40.51
485.90	S	-65.34	-69.04	-69.04	5.95	-2.26	-25.00	-40.34
800.18	S	-62.39	-64.98	-64.98	5.49	-2.90	-25.00	-37.39
5150.00	H	-53.17	-57.99	-57.99	12.76	-7.94	-25.00	-28.17

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2595.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Mode	:10M QPSK RB 1,49
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



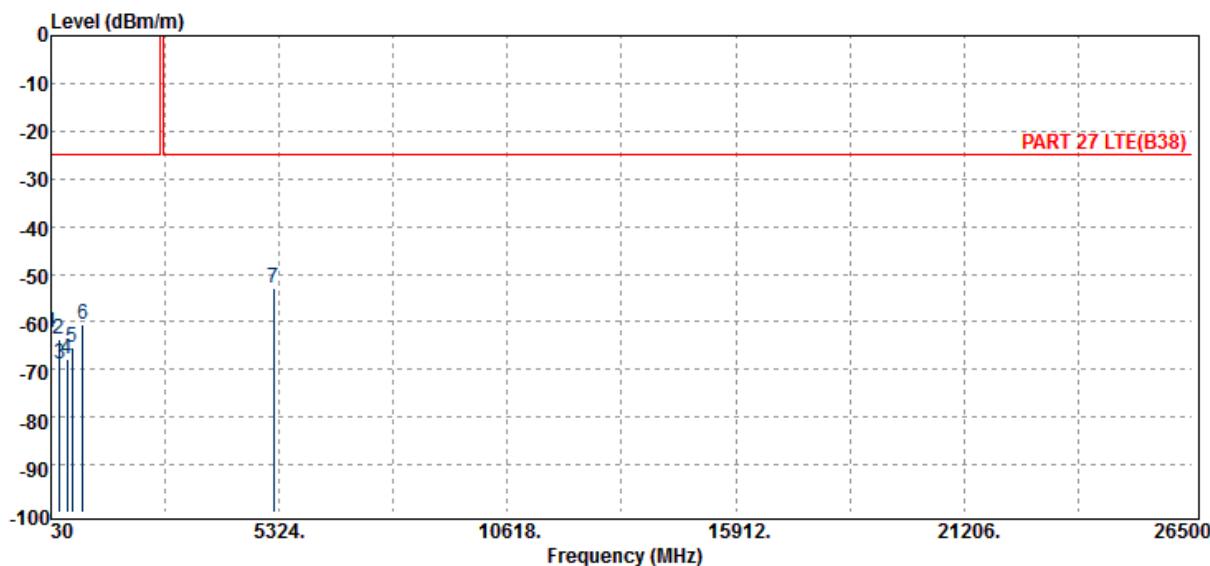
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
55.22	S	-58.95	-50.10	-7.78	-1.06	-25.00	-33.95	
173.56	S	-68.13	-68.48	1.89	-1.53	-25.00	-43.13	
239.52	S	-66.34	-70.03	5.43	-1.74	-25.00	-41.34	
362.71	S	-67.67	-71.53	6.00	-2.15	-25.00	-42.67	
529.55	S	-62.87	-66.22	5.85	-2.49	-25.00	-37.87	
631.40	S	-60.44	-63.30	5.33	-2.46	-25.00	-35.44	
5190.00	H	-55.95	-60.78	12.78	-7.95	-25.00	-30.95	

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2595.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Mode	:10M QPSK RB 1,49
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



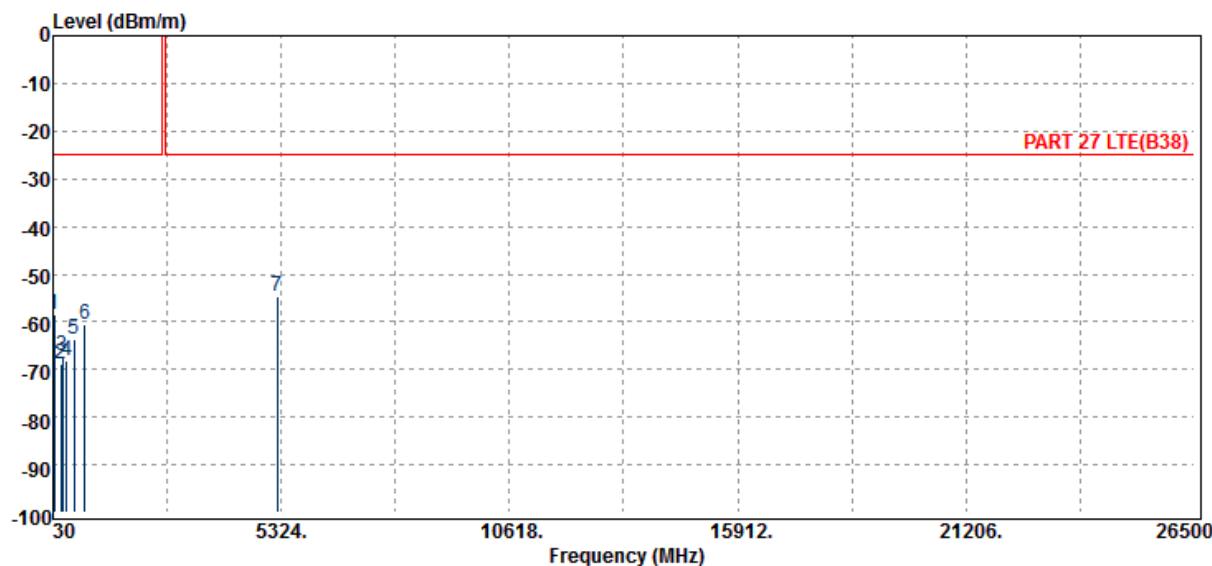
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
30.00	S	-62.12	-48.54	-12.63	-0.96	-25.00	-37.12	
219.15	S	-63.51	-67.31	5.49	-1.70	-25.00	-38.51	
240.49	S	-68.78	-72.48	5.44	-1.74	-25.00	-43.78	
395.69	S	-67.70	-71.32	5.97	-2.35	-25.00	-42.70	
516.94	S	-65.25	-68.80	5.91	-2.37	-25.00	-40.25	
773.99	S	-60.50	-62.98	5.41	-2.93	-25.00	-35.50	
5190.00	H	-52.94	-57.77	12.78	-7.95	-25.00	-27.94	

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2615 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Mode	:10M QPSK RB 1,49
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



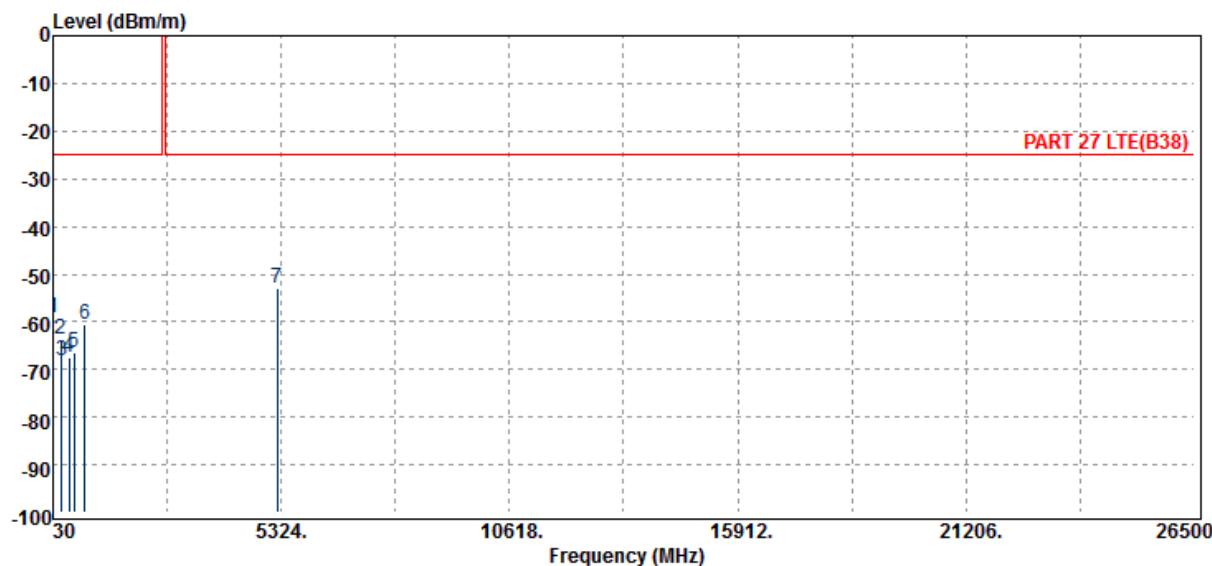
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
52.31	S	-58.47	-48.87	-48.87	-8.55	-1.05	-25.00	-33.47
216.24	S	-68.82	-72.68	-72.68	5.55	-1.69	-25.00	-43.82
249.22	S	-67.11	-70.93	-70.93	5.58	-1.76	-25.00	-42.11
350.10	S	-68.03	-72.00	-72.00	6.01	-2.05	-25.00	-43.03
527.61	S	-63.79	-67.18	-67.18	5.86	-2.47	-25.00	-38.79
772.05	S	-60.53	-62.99	-62.99	5.40	-2.94	-25.00	-35.53
5230.00	H	-54.64	-59.44	-59.44	12.79	-8.00	-25.00	-29.64

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Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2615 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Mode	:10M QPSK RB 1,49
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
30.00	S	-59.28	-45.69	-12.63	-0.96	-25.00	-34.28	
219.15	S	-63.72	-67.52	5.49	-1.70	-25.00	-38.72	
240.49	S	-68.04	-71.75	5.44	-1.74	-25.00	-43.04	
406.36	S	-67.53	-71.06	5.95	-2.42	-25.00	-42.53	
513.06	S	-66.56	-70.14	5.94	-2.35	-25.00	-41.56	
769.14	S	-60.39	-62.83	5.39	-2.96	-25.00	-35.39	
5230.00	H	-53.06	-57.86	12.79	-8.00	-25.00	-28.06	

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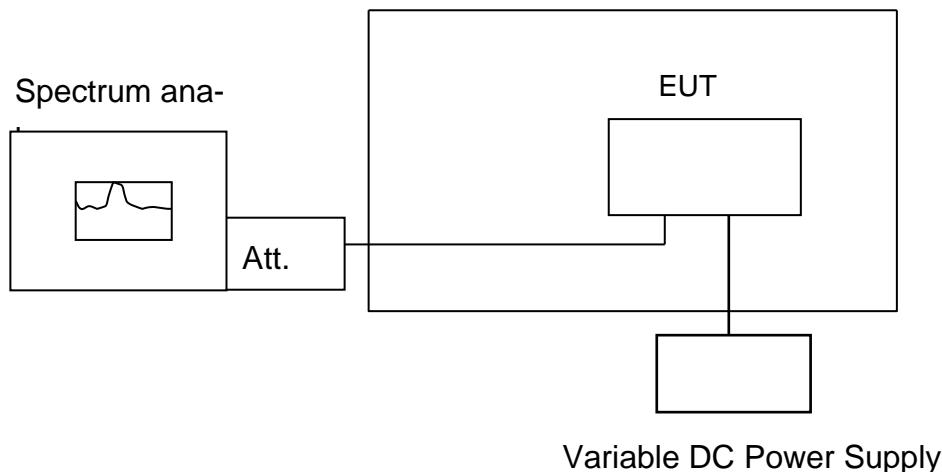
## 11. FREQUENCY STABILITY MEASUREMENT

### 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:

Temperature Chamber



**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.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/10/2017	02/09/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/10/2017	02/09/2018

#### 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				
4.4	20	836600017	6	2091
3.85	20	836600011	0	2091
3.5	20	836600002	-9	2091
2.5 (End point)	20	836600026	15	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836600014	3	2091
3.85	40	836600006	-5	2091
3.85	30	836600007	-4	2091
3.85	20	8366000110	0	2091
3.85	10	836600003	-8	2091
3.85	0	836600016	5	2091
3.85	-10	836600014	3	2091
3.85	-20	836600015	4	2091
3.85	-30	836600006	-5	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)		
FREQUENCY ERROR vs. VOLTAGE				
4.4	20	1879999995	1	4700
3.85	20	1879999994	0	4700
3.5	20	1880000005	11	4700
2.5 (End point)	20	1880000003	9	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1880000006	12	4700
3.85	40	1879999998	4	4700
3.85	30	1880000006	12	4700
3.85	20	1879999994	0	4700
3.85	10	1879999989	-5	4700
3.85	0	1880000015	21	4700
3.85	-10	1880000022	28	4700
3.85	-20	1880000014	20	4700
3.85	-30	1880000006	12	4700
Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
4.4	20	1879999994	-1	4700
3.85	20	1879999995	0	4700
3.5	20	1880000002	7	4700
2.5 (End point)	20	1879999994	-1	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879999989	3	4700
3.85	40	1879999996	17	4700
3.85	30	1880000002	-3	4700
3.85	20	1879999995	0	4700
3.85	10	1880000006	21	4700
3.85	0	1880000008	-6	4700
3.85	-10	1879999989	20	4700
3.85	-20	1880000022	22	4700
3.85	-30	1880000004	4	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)		
FREQUENCY ERROR vs. VOLTAGE				
4.4	20	1732600000	6	4331
3.85	20	1732599994	0	4331
3.5	20	1732600006	12	4331
2.5 (End point)	20	1732599995	1	4331
FREQUENCY ERROR vs. Temp.				
3.85	50	1732600006	12	4331
3.85	40	1732600005	11	4331
3.85	30	1732599997	3	4331
3.85	20	1732599994	0	4331
3.85	10	1732599995	1	4331
3.85	0	1732600006	12	4331
3.85	-10	1732599995	1	4331
3.85	-20	1732600012	18	4331
3.85	-30	1732600001	7	4331

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temp. (°C)	(MHz)		
FREQUENCY ERROR vs. VOLTAGE				
4.4	20	83659999	-2	2091
3.85	20	83659992	0	2091
3.5	20	83660006	14	2091
2.5 (End point)	20	83660003	11	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	83660006	14	2091
3.85	40	83660005	13	2091
3.85	30	83660004	12	2091
3.85	20	83659992	0	2091
3.85	10	83660002	10	2091
3.85	0	83660006	14	2091
3.85	-10	83660005	13	2091
3.85	-20	83660008	16	2091
3.85	-30	83660003	11	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>					
4.4	25	1880.00003	67.7	4700	
3.85	25	1879.99996	0	4700	
3.5	25	1880.00002	56.7	4700	
2.5 (End Point)	25	1880.00002	63.7	4700	
<b>Freq. ERROR vs. Temp.</b>					
3.85	-30	1879.99996	-57.4	4700	
3.85	-20	1879.99997	-46.1	4700	
3.85	-10	1880.00002	3	4700	
3.85	0	1879.99998	-39	4700	
3.85	10	1879.99996	-50.7	4700	
3.85	20	1880.00002	0	4700	
3.85	30	1879.99997	-42.9	4700	
3.85	40	1880.00002	8	4700	
3.85	50	1879.99998	-32.6	4700	

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>					
4.4	25	1732.49996	-10.1	4331	
3.85	25	1732.49997	0	4331	
3.5	25	1732.50000	33.1	4331	
2.5 (End Point)	25	1732.49997	-0.2	4331	
<b>Freq. ERROR vs. Temp.</b>					
3.85	-30	1732.49996	-56.7	4331	
3.85	-20	1732.50004	15	4331	
3.85	-10	1732.49997	-52.9	4331	
3.85	0	1732.50000	-16.8	4331	
3.85	10	1732.49997	-54.4	4331	
3.85	20	1732.50002	0	4331	
3.85	30	1732.49997	-55.9	4331	
3.85	40	1732.50001	-9.1	4331	
3.85	50	1732.50002	-5.7	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>				
4.4	25	836.49996	-52.5	2091
3.85	25	836.50001	0	2091
3.5	25	836.49725	-2763	2091
2.5 (End Point)	25	836.49997	-41.6	2091
<b>Freq. ERROR vs. Temp.</b>				
3.85	-30	836.49996	-8.7	2091
3.85	-20	836.49997	-1.8	2091
3.85	-10	836.50002	53.9	2091
3.85	0	836.49997	7	2091
3.85	10	836.50002	49.6	2091
3.85	20	836.49997	0	2091
3.85	30	836.49996	-4.2	2091
3.85	40	836.49997	3.5	2091
3.85	50	836.50000	33.9	2091

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>				
4.4	25	2534.99997	-29.83	6338
3.85	25	2535.00000	0	6338
3.5	25	2535.00001	3.82	6338
2.5 (End Point)	25	2535.00001	6.27	6338
<b>Freq. ERROR vs. Temp.</b>				
3.85	-30	2535.00001	29.5	6338
3.85	-20	2535.00001	30.1	6338
3.85	-10	2534.99999	5.3	6338
3.85	0	2534.99998	0.5	6338
3.85	10	2535.00001	22.7	6338
3.85	20	2534.99998	0	6338
3.85	30	2534.99999	4.3	6338
3.85	40	2534.99998	0.8	6338
3.85	50	2535.00000	16.07	6338

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Reference Freq.:		LTE B12 Mid Channel		707.5 MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
4.4	25	707.50001	-6.7	1769
3.85	25	707.50001	0	1769
3.5	25	707.50000	-9.2	1769
2.5 (End Point)	25	707.49998	-27.7	1769
<b>Freq. ERROR vs. Temp.</b>				
3.85	-30	707.49999	-21.1	1769
3.85	-20	707.50000	-6.4	1769
3.85	-10	707.49999	-16.2	1769
3.85	0	707.50000	-12.5	1769
3.85	10	707.50001	-2.1	1769
3.85	20	707.50001	0	1769
3.85	30	707.50000	-2.9	1769
3.85	40	707.50000	-11.3	1769
3.85	50	707.50000	-9.8	1769

Reference Freq.:		LTE B17 Mid Channel		710 MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
4.4	25	710.00000	36.9	1775
3.85	25	709.99997	0	1775
3.5	25	710.00001	44.6	1775
2.5 (End Point)	25	709.99997	4.9	1775
<b>Freq. ERROR vs. Temp.</b>				
3.85	-30	709.99997	-34.5	1775
3.85	-20	709.99997	-34.8	1775
3.85	-10	710.00001	2.1	1775
3.85	0	709.99998	-27.9	1775
3.85	10	709.99996	-42.1	1775
3.85	20	710.00001	0	1775
3.85	30	710.00000	-0.9	1775
3.85	40	709.99998	-22.5	1775
3.85	50	709.99998	-22.8	1775

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Reference Freq.:		LTE B38 Mid Channel		MHz 2595	10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
4.4	25	2594.99999	-18.7	6488	
3.85	25	2595.00001	0	6488	
3.5	25	2594.99998	-24.9	6488	
2.5 (End Point)	25	2594.99998	-23.2	6488	
<b>Freq. ERROR vs. Temp.</b>					
3.85	-30	2595.00002	54.7	6488	
3.85	-20	2595.00002	50	6488	
3.85	-10	2594.99997	4.8	6488	
3.85	0	2595.00001	37.4	6488	
3.85	10	2594.99997	0.4	6488	
3.85	20	2594.99997	0	6488	
3.85	30	2595.00001	37.06	6488	
3.85	40	2594.99998	9.9	6488	
3.85	50	2595.00001	43.6	6488	

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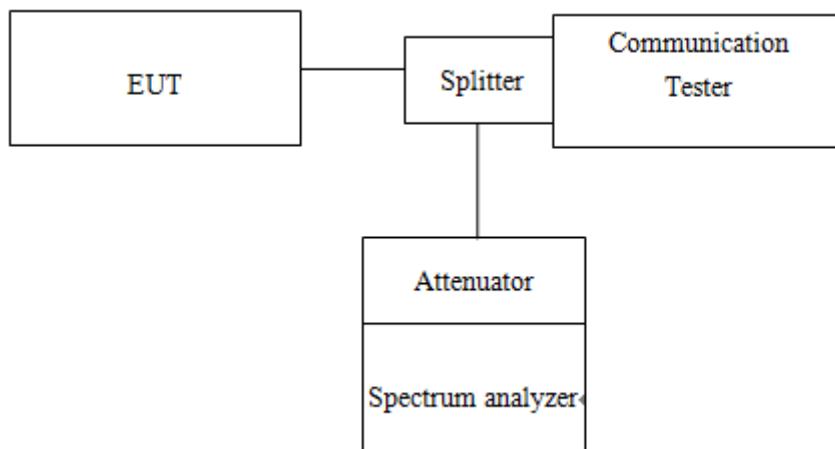
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## 12. PEAK TO AVERAGE RATIO

### 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.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/10/2017	02/09/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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## 12.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 850	GPRS 850	EDGE 850
824.2	128	8.94	8.89	11.58
836.6	190	9.68	10.24	11.62
848.8	251	9.22	9.89	11.81

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	9.51	7.97	11.73
1880	661	9.08	9.28	11.16
1909.8	810	8.87	9.17	11.58

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.85	3.61	3.38
1880	9400	3.00	3.69	3.76
1907.6	9538	2.87	3.51	3.54

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.33	4.27	3.95
1732.6	1413	3.29	4.05	4.02
1752.6	1513	3.33	3.92	3.92

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.07	3.93	3.87
836.6	4183	3.03	4.01	4.18
846.6	4233	2.91	3.87	3.95

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.35	13	1851.5	18615	6.25	13
1880.0	18900	6.61	13	1880.0	18900	6.56	13
1909.3	19193	6.06	13	1908.5	19185	6.20	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.19	13	1855.0	18650	6.01	13
1880.0	18900	6.50	13	1880.0	18900	6.34	13
1907.5	19175	6.22	13	1905.0	19150	6.20	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.20	13	1860.0	18700	6.59	13
1880.0	18900	6.37	13	1880.0	18900	6.72	13
1902.5	19125	6.41	13	1900.0	19100	6.76	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.10	13	1711.5	19965	6.18	13
1732.5	20175	6.09	13	1732.5	20175	6.12	13
1754.3	20393	6.13	13	1753.5	20385	6.17	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.05	13	1715.0	20000	5.98	13
1732.5	20175	6.01	13	1732.5	20175	6.02	13
1752.5	20375	6.16	13	1750.0	20350	6.12	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.13	13	1720.0	20050	6.61	13
1732.5	20175	6.18	13	1732.5	20175	6.58	13
1747.5	20325	6.14	13	1745.0	20300	6.59	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		Ratio	16QAM			Ratio	16QAM
824.7	20407	6.16	13	825.5	20415	6.16	13
836.5	20525	6.15	13	836.5	20525	6.11	13
848.3	20643	6.15	13	847.5	20635	6.15	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
826.5	20425	6.05	13	829.0	20450	6.12	13
836.5	20525	6.10	13	836.5	20525	6.06	13
846.5	20625	5.97	13	844.0	20600	6.03	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2502.5	20775	5.64	13	2505.0	20800	5.84	13
2535.0	21100	5.58	13	2535.0	21100	5.63	13
2567.5	21375	5.62	13	2565.0	21350	5.88	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2507.5	20825	6.16	13	2510	20850	6.65	13
2535	21100	6.02	13	2535	21100	6.64	13
2562.5	21375	6.15	13	2560	21350	6.71	13

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
706.5	23755	6.01	13	709	23780	6.22	13
710	23790	6.00	13	710	23790	6.03	13
713.5	23825	6.76	13	711	23780	5.97	13

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2572.5	37775	9.01	13	2575	37800	8.27	13
2595	38000	9.05	13	2595	38000	8.66	13
2617.5	38225	8.12	13	2615	38200	10.16	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
2577.5	37825	7.65	13	2580.0	37850	8.77	13
2595	38000	8.29	13	2595.0	38000	8.64	13
2612.5	38175	8.52	13	2610.0	38150	9.68	13

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GSM\_850MHz\_LowCH128-824.2



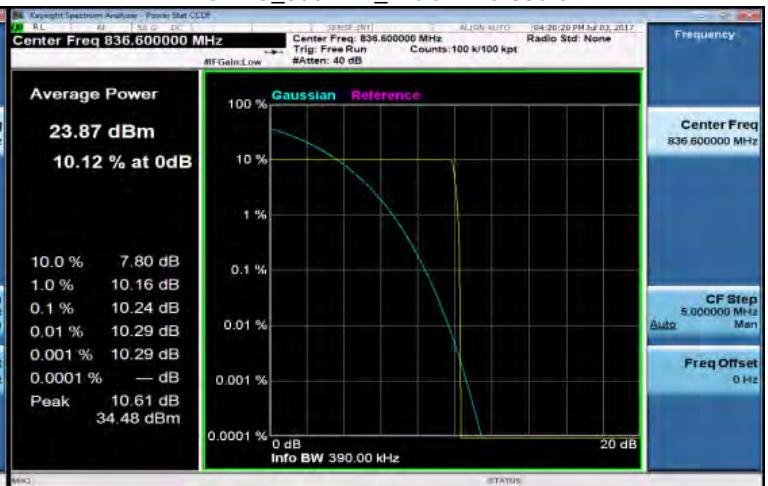
GPRS\_850MHz\_LowCH128-824.2



GSM\_850MHz\_MidCH190-836.6



GPRS\_850MHz\_MidCH190-836.6



GSM\_850MHz\_HighCH251-848.8



GPRS\_850MHz\_HighCH251-848.8



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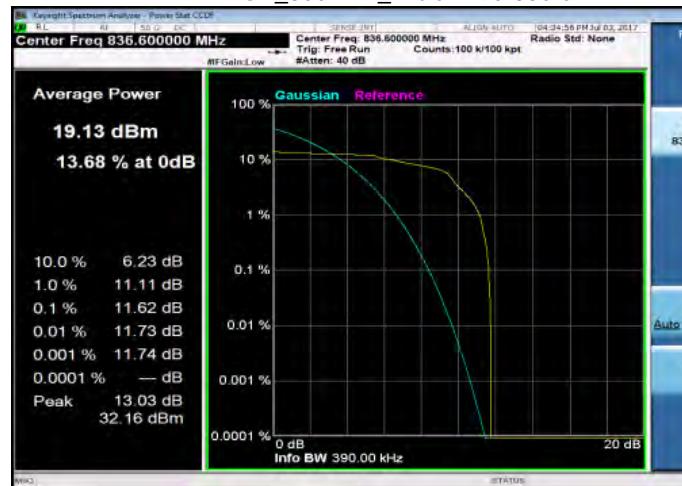
EDGE\_850MHz\_LowCH128-824.2



GSM\_1900MHz\_LowCH512-1850.2



EDGE\_850MHz\_MidCH190-836.6



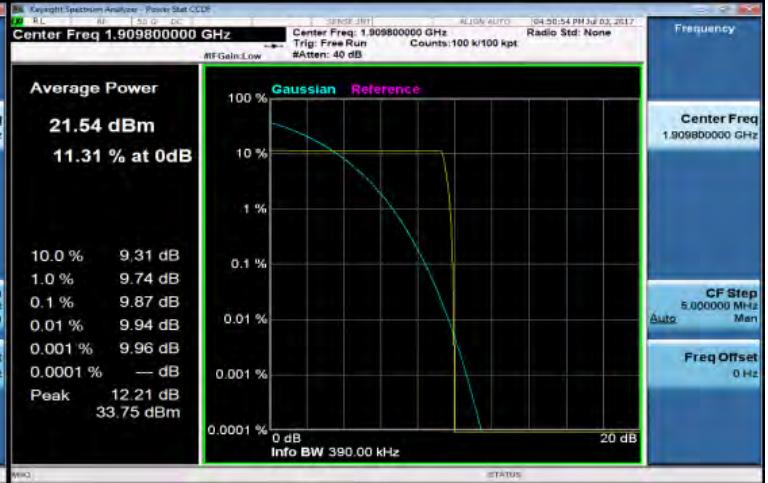
GSM\_1900MHz\_MidCH661-1880



EDGE\_850MHz\_HighCH251-848.8



GSM\_1900MHz\_HighCH810-1909.8



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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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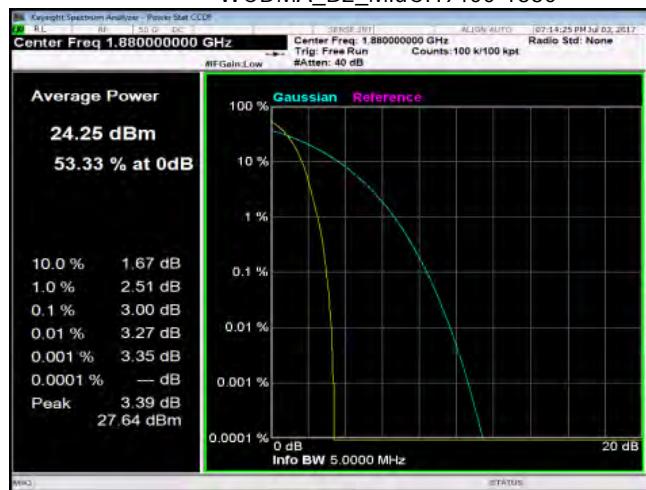
WCDMA\_B2\_LowCH9262-1852.4



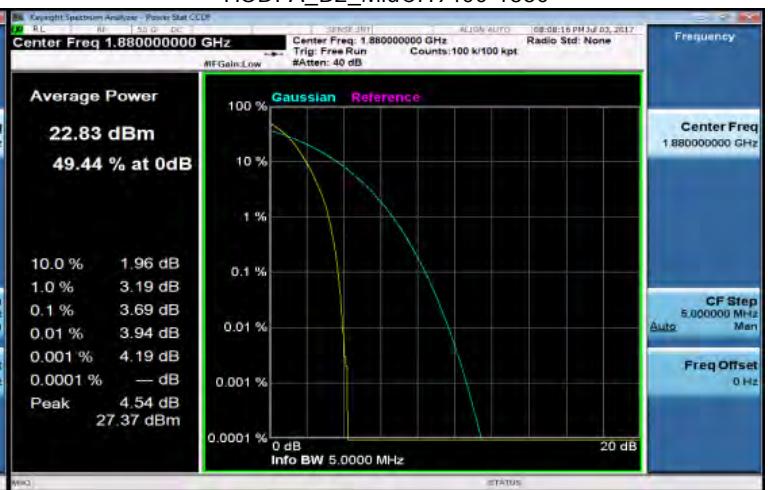
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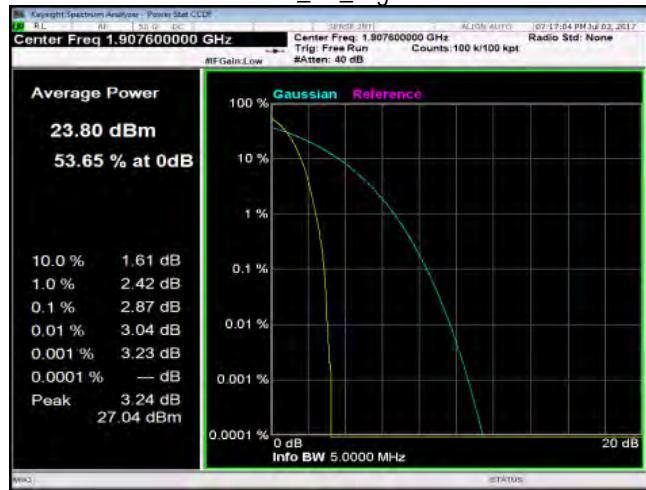
WCDMA\_B2\_MidCH9400-1880



HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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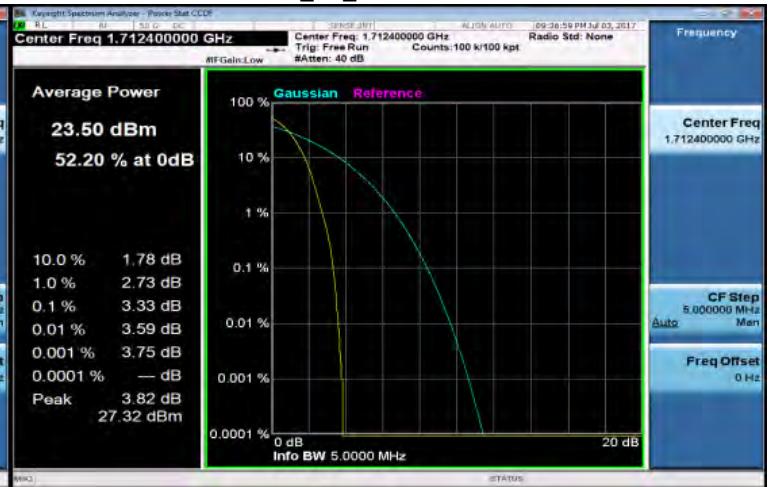
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HSUPA\_B2\_LowCH9262-1852.4



WCDMA\_B4\_LowCH1312-1712.4



HSUPA\_B2\_MidCH9400-1880



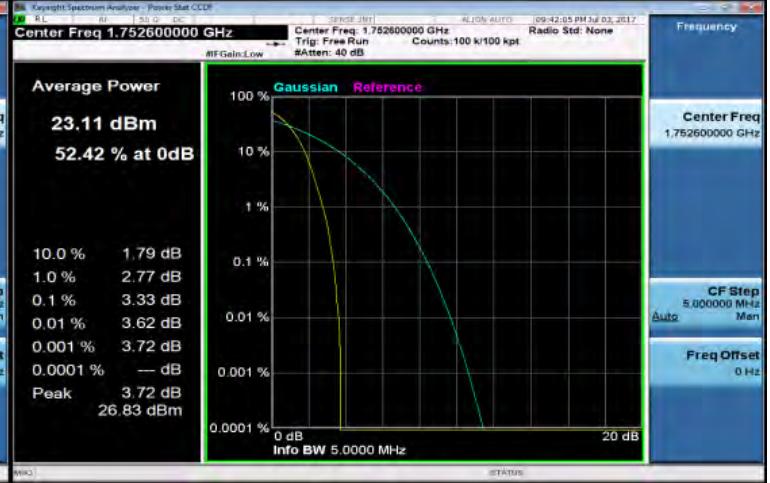
WCDMA\_B4\_MidCH1413-1732.6



HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6

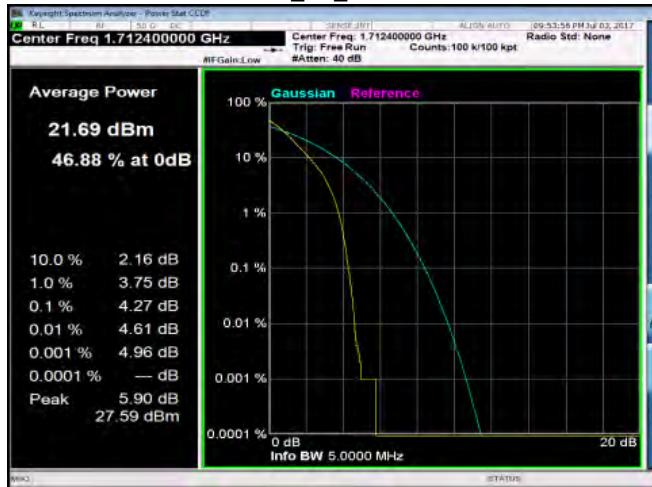


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HSDPA\_B4\_LowCH1312-1712.4



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



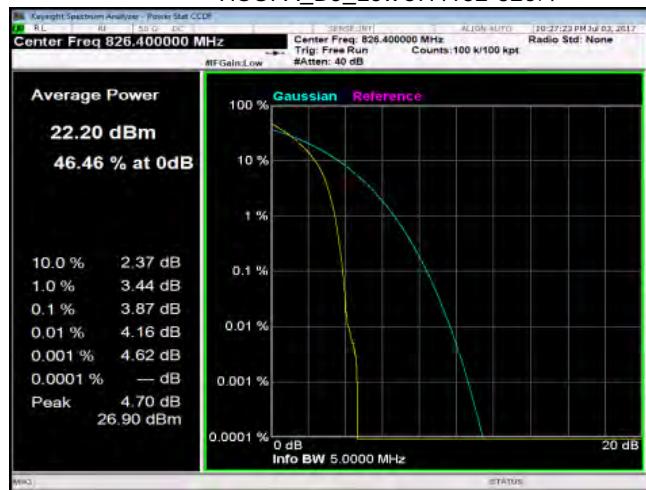
HSDPA\_B5\_HighCH4233-846.6



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HSUPA\_B5\_LowCH4132-826.4



LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_LowCH18607-1850.7



HSUPA\_B5\_MidCH4183-836.6



LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_MidCH18900-1880



HSUPA\_B5\_HighCH4233-846.6



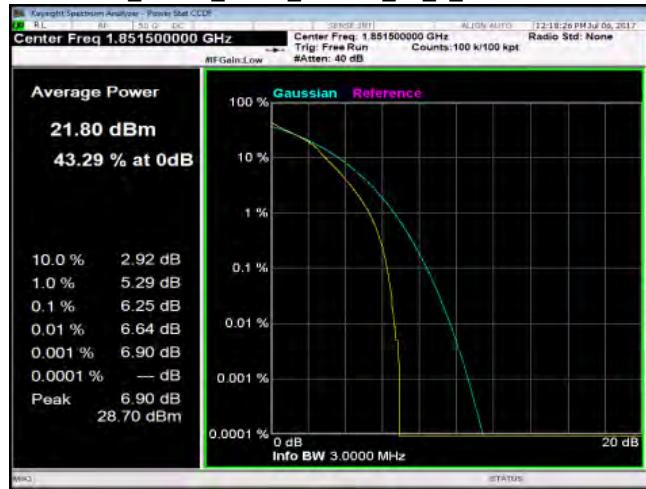
LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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LTE\_Band2\_3MHz\_16QAM\_15\_0\_LowCH18615-1851.5



LTE\_Band2\_5MHz\_16QAM\_25\_0\_LowCH18625-1852.5



LTE\_Band2\_3MHz\_16QAM\_15\_0\_MidCH18900-1880



LTE\_Band2\_5MHz\_16QAM\_25\_0\_MidCH18900-1880



LTE\_Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5



LTE\_Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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LTE\_Band2\_10MHz\_16QAM\_50\_0\_LowCH18650-1855



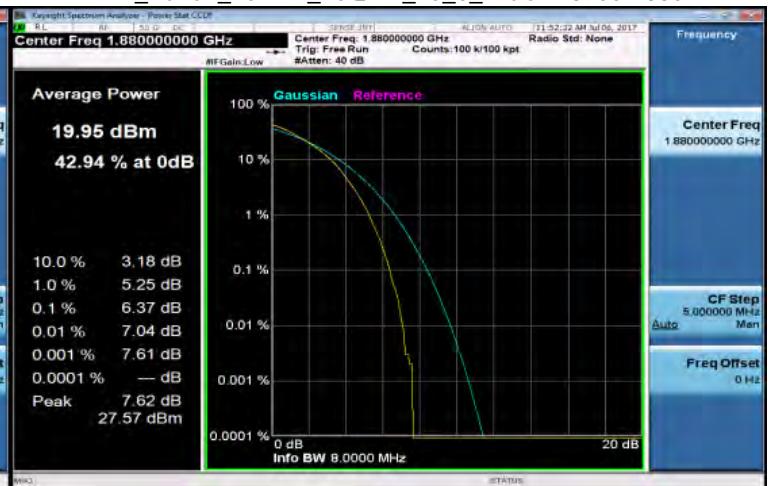
LTE\_Band2\_15MHz\_16QAM\_75\_0\_LowCH18675-1857.5



LTE\_Band2\_10MHz\_16QAM\_50\_0\_MidCH18900-1880



LTE\_Band2\_15MHz\_16QAM\_75\_0\_MidCH18900-1880



LTE\_Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



LTE\_Band2\_15MHz\_16QAM\_75\_0\_HighCH19125-1902.5

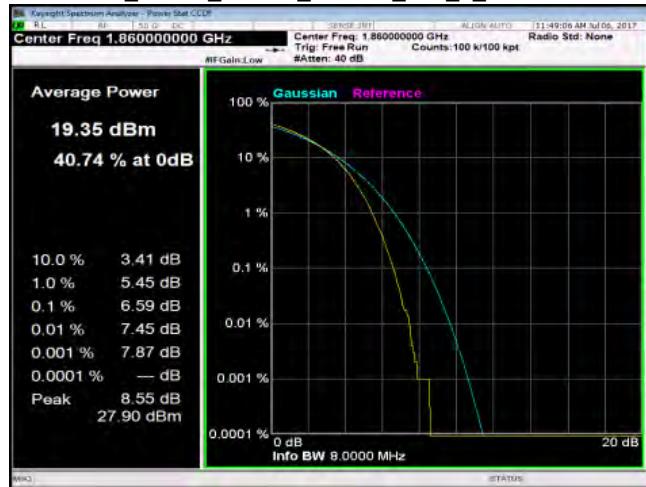


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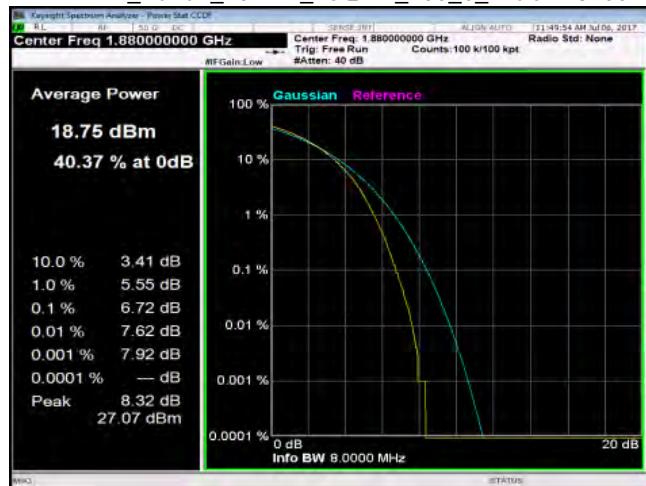
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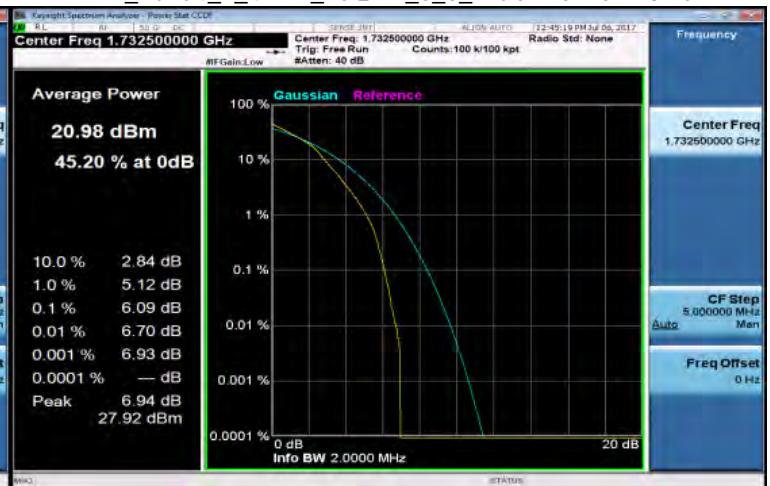
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LTE\_Band2\_20MHz\_16QAM\_100\_0\_MidCH18900-1880



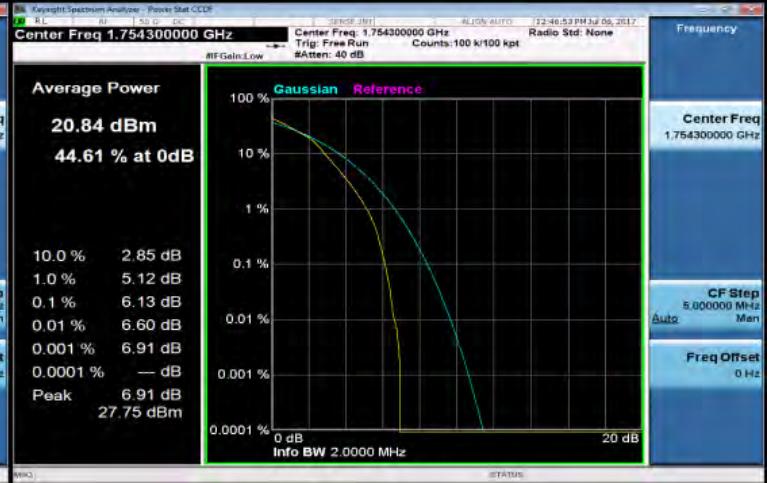
LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_MidCH20175-1732.5



LTE\_Band2\_20MHz\_16QAM\_100\_0\_HighCH19100-1900



LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_HighCH20393-1754.3



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LTE\_Band4\_3MHz\_16QAM\_15\_0\_LowCH19965-1711.5



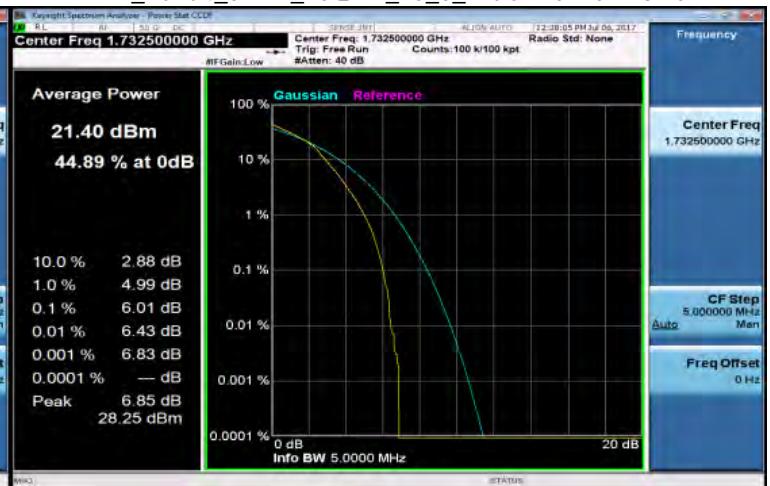
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LTE\_Band4\_3MHz\_16QAM\_15\_0\_MidCH20175-1732.5



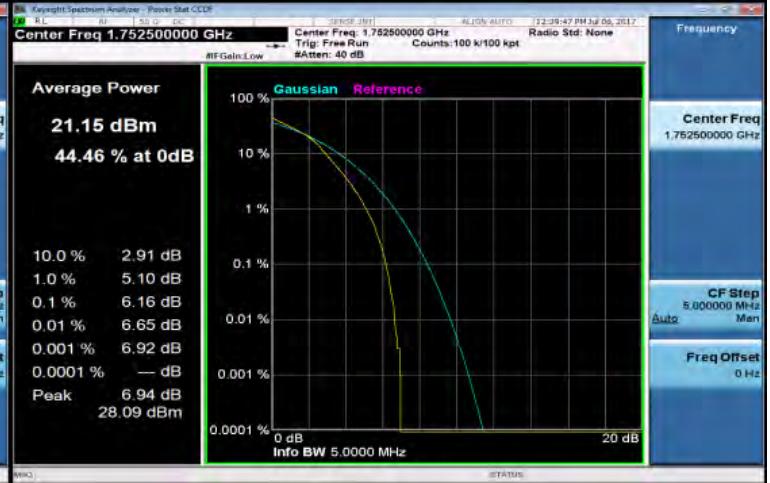
LTE\_Band4\_5MHz\_16QAM\_25\_0\_MidCH20175-1732.5



LTE\_Band4\_3MHz\_16QAM\_15\_0\_HighCH20385-1753.5



LTE\_Band4\_5MHz\_16QAM\_25\_0\_HighCH20375-1752.5

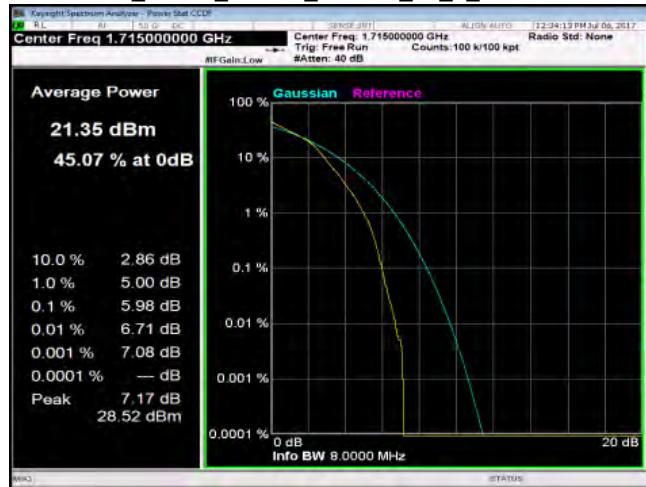


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LTE\_Band4\_10MHz\_16QAM\_50\_0\_LowCH20000-1715



LTE\_Band4\_15MHz\_16QAM\_75\_0\_LowCH20025-1717.5



LTE\_Band4\_10MHz\_16QAM\_50\_0\_MidCH20175-1732.5



LTE\_Band4\_15MHz\_16QAM\_75\_0\_MidCH20175-1732.5



LTE\_Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750



LTE\_Band4\_15MHz\_16QAM\_75\_0\_HighCH20325-1747.5



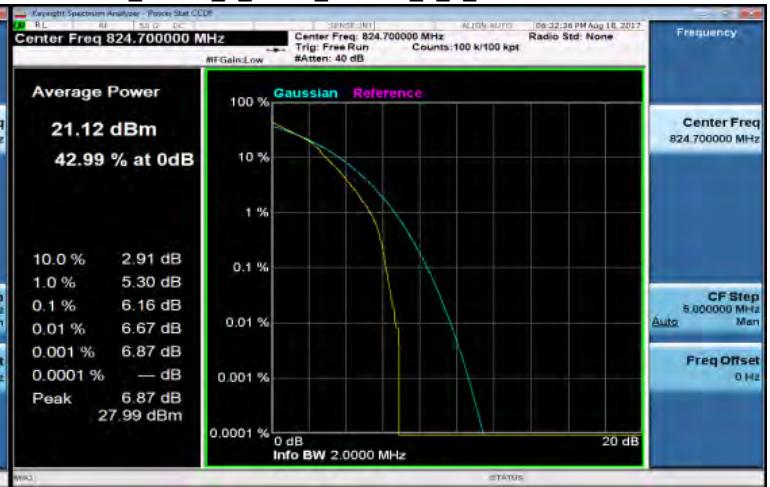
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LTE\_Band4\_20MHz\_16QAM\_100\_0\_LowCH20050-1720



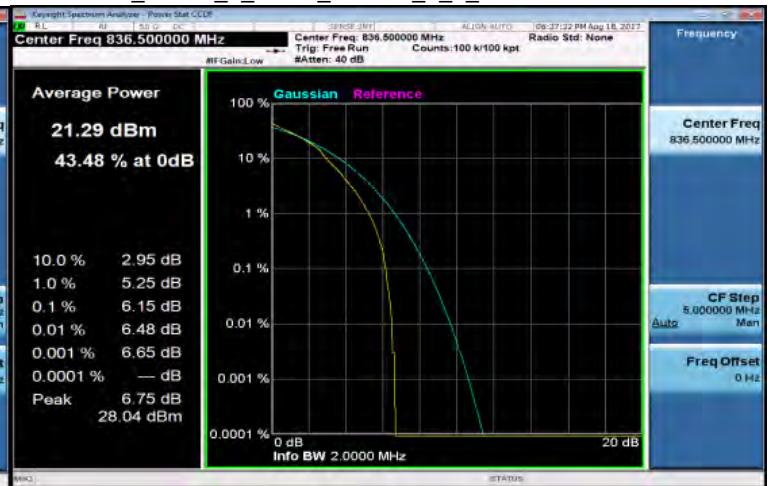
LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_LowCH20407-824.7



LTE\_Band4\_20MHz\_16QAM\_100\_0\_MidCH20175-1732.5



LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_MidCH20525-836.5



LTE\_Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



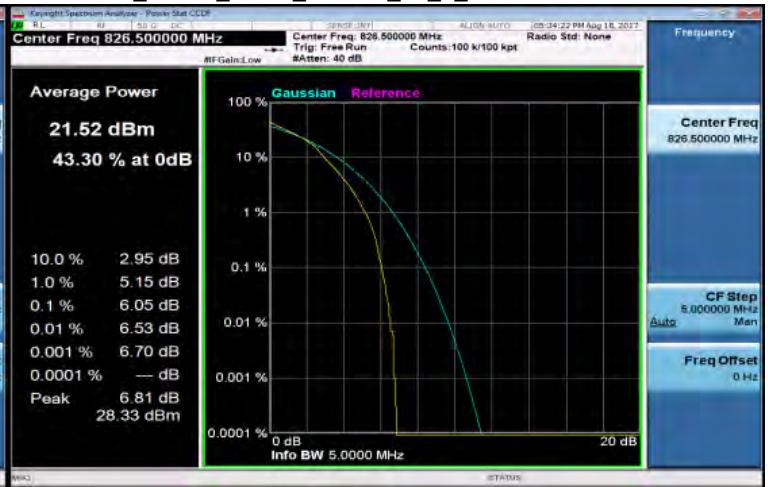
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LTE\_Band5\_3MHz\_16QAM\_15\_0\_LowCH20415-825.5



LTE\_Band5\_5MHz\_16QAM\_25\_0\_LowCH20425-826.5



LTE\_Band5\_3MHz\_16QAM\_15\_0\_MidCH20525-836.5



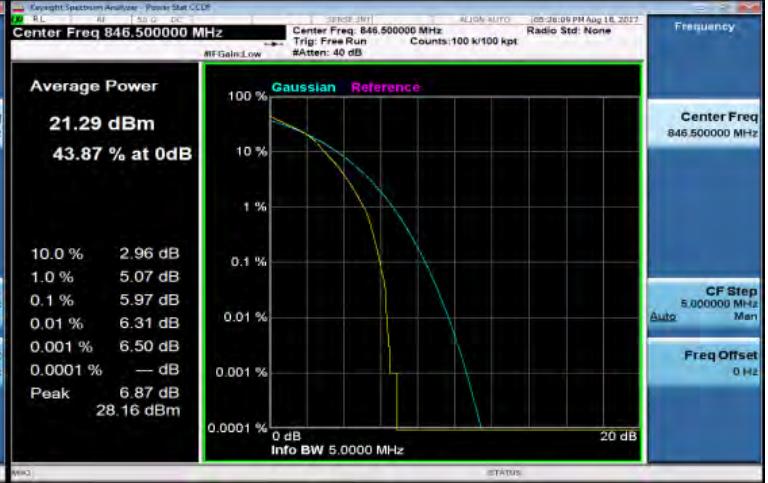
LTE\_Band5\_5MHz\_16QAM\_25\_0\_MidCH20525-836.5



LTE\_Band5\_3MHz\_16QAM\_15\_0\_HighCH20635-847.5



LTE\_Band5\_5MHz\_16QAM\_25\_0\_HighCH20625-846.5



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LTE\_Band5\_10MHz\_16QAM\_50\_0\_LowCH20450-829



LTE\_Band7\_5MHz\_16QAM\_25\_0\_LowCH20775-2502.5



LTE\_Band5\_10MHz\_16QAM\_50\_0\_MidCH20525-836.5



LTE\_Band7\_5MHz\_16QAM\_25\_0\_MidCH21100-2535



LTE\_Band5\_10MHz\_16QAM\_50\_0\_HighCH20600-844



LTE\_Band7\_5MHz\_16QAM\_25\_0\_HighCH21425-2567.5



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LTE\_Band7\_10MHz\_16QAM\_50\_0\_LowCH20800-2505



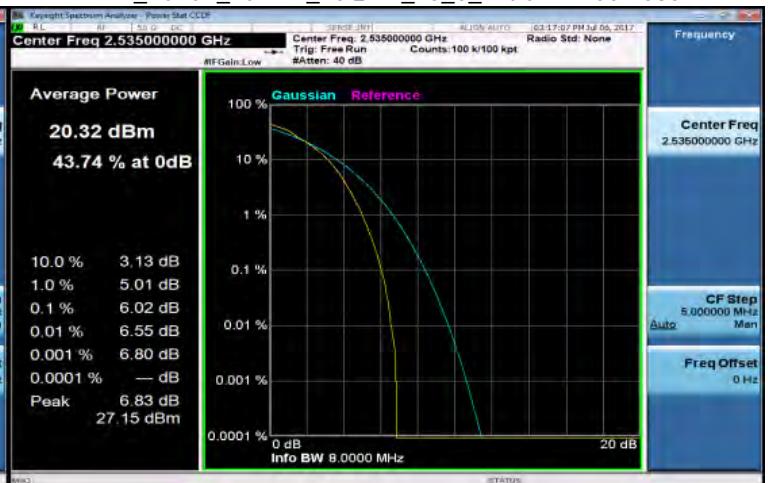
LTE\_Band7\_15MHz\_16QAM\_75\_0\_LowCH20825-2507.5



LTE\_Band7\_10MHz\_16QAM\_50\_0\_MidCH21100-2535



LTE\_Band7\_15MHz\_16QAM\_75\_0\_MidCH21100-2535



LTE\_Band7\_10MHz\_16QAM\_50\_0\_HighCH21400-2565



LTE\_Band7\_15MHz\_16QAM\_75\_0\_HighCH21375-2562.5

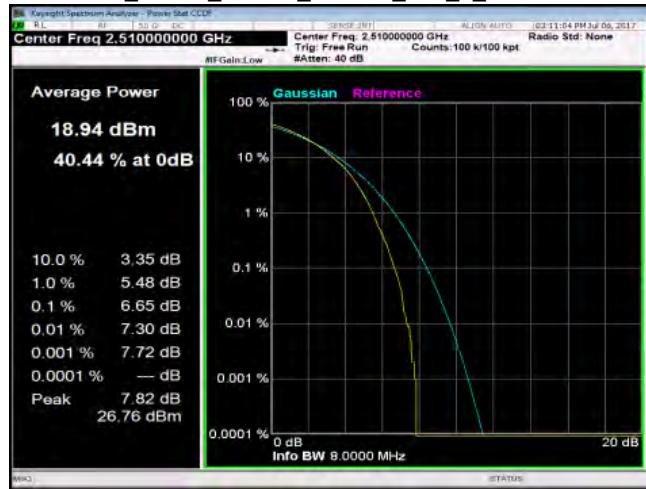


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LTE\_Band7\_20MHz\_16QAM\_100\_0\_LowCH20850-2510



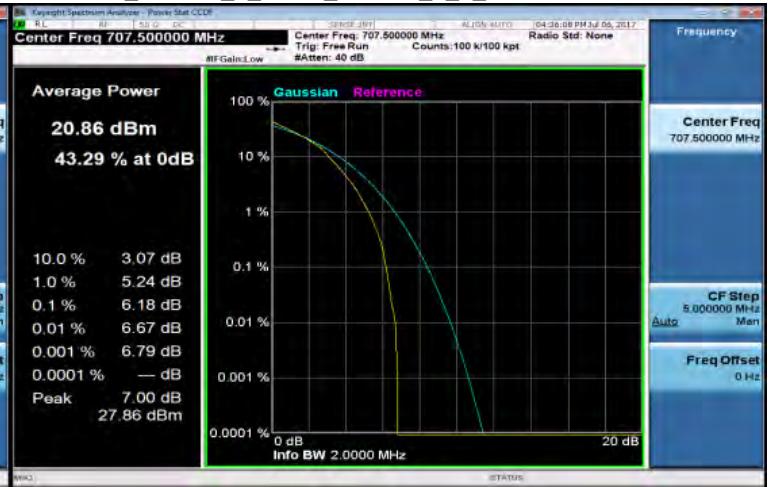
LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_LowCH23017-699.7



LTE\_Band7\_20MHz\_16QAM\_100\_0\_MidCH21100-2535



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_MidCH23095-707.5



LTE\_Band7\_20MHz\_16QAM\_100\_0\_HighCH21350-2560



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



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LTE\_Band12\_3MHz\_16QAM\_15\_0\_LowCH23025-700.5



LTE\_Band12\_5MHz\_16QAM\_25\_0\_LowCH23035-701.5



LTE\_Band12\_3MHz\_16QAM\_15\_0\_MidCH23095-707.5



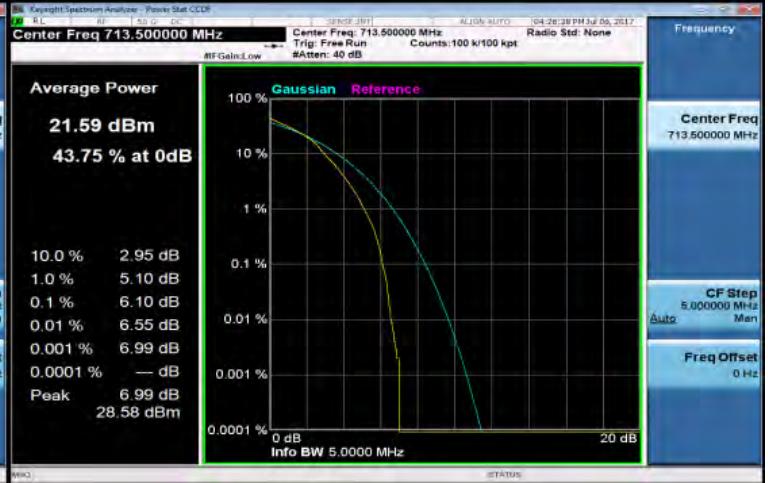
LTE\_Band12\_5MHz\_16QAM\_25\_0\_MidCH23095-707.5



LTE\_Band12\_3MHz\_16QAM\_15\_0\_HighCH23165-714.5



LTE\_Band12\_5MHz\_16QAM\_25\_0\_HighCH23155-713.5



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LTE\_Band12\_10MHz\_16QAM\_50\_0\_LowCH23060-704



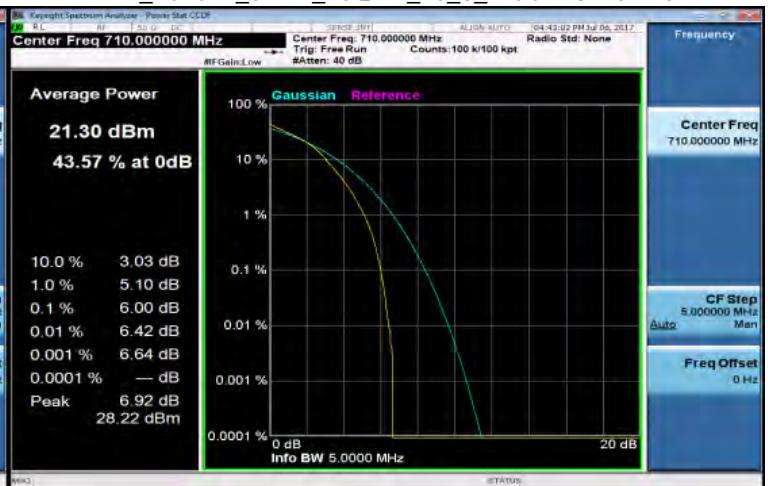
LTE\_Band17\_5MHz\_16QAM\_25\_0\_LowCH23755-706.5



LTE\_Band12\_10MHz\_16QAM\_50\_0\_MidCH23095-707.5



LTE\_Band17\_5MHz\_16QAM\_25\_0\_MidCH23790-710



LTE\_Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



LTE\_Band17\_5MHz\_16QAM\_25\_0\_HighCH23825-713.5



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LTE\_Band17\_10MHz\_16QAM\_50\_0\_LowCH23780-709



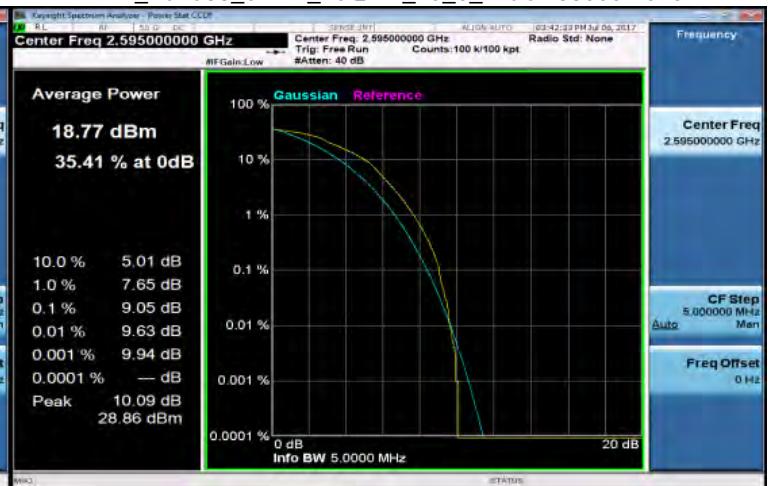
LTE\_Band38\_5MHz\_16QAM\_25\_0\_LowCH37775-2572.5



LTE\_Band17\_10MHz\_16QAM\_50\_0\_MidCH23790-710



LTE\_Band38\_5MHz\_16QAM\_25\_0\_MidCH38000-2595



LTE\_Band17\_10MHz\_16QAM\_50\_0\_HighCH23800-711



LTE\_Band38\_5MHz\_16QAM\_25\_0\_HighCH38225-2617.5



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LTE\_Band38\_10MHz\_16QAM\_50\_0\_LowCH37800-2575



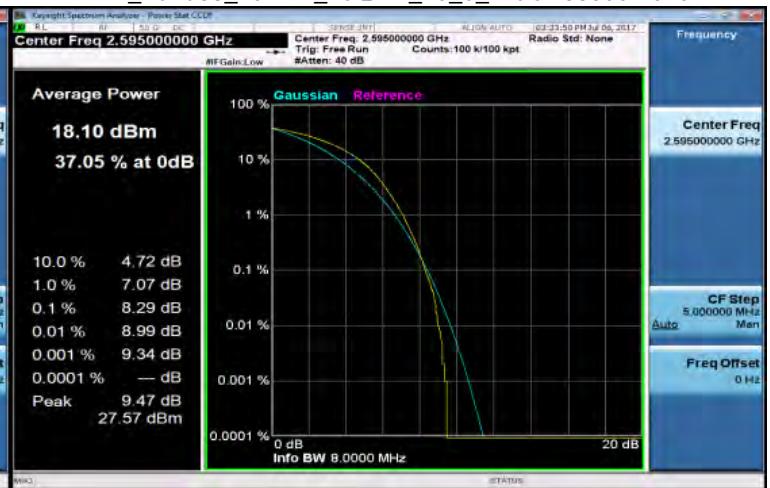
LTE\_Band38\_15MHz\_16QAM\_75\_0\_LowCH37825-2577.5



LTE\_Band38\_10MHz\_16QAM\_50\_0\_MidCH38000-2595



LTE\_Band38\_15MHz\_16QAM\_75\_0\_MidCH38000-2595



LTE\_Band38\_10MHz\_16QAM\_50\_0\_HighCH38200-2615



LTE\_Band38\_15MHz\_16QAM\_75\_0\_HighCH38175-2612.5



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LTE\_Band38\_20MHz\_16QAM\_100\_0\_LowCH37850-2580



LTE\_Band38\_20MHz\_16QAM\_100\_0\_HighCH38150-2610



LTE\_Band38\_20MHz\_16QAM\_100\_0\_MidCH38000-2595



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## 13. RSE ASSESSMENT FOR C2PC

### 13.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log_{10}(p)$  (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  $55 + 10 \log_{10}(p)$  (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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台灣檢驗科技股份有限公司

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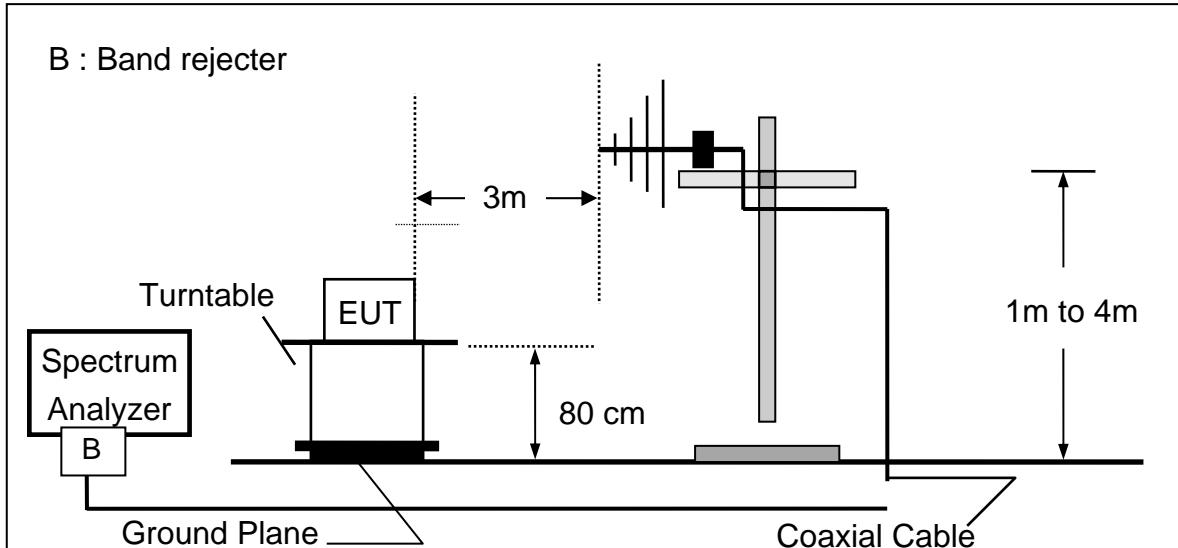
f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

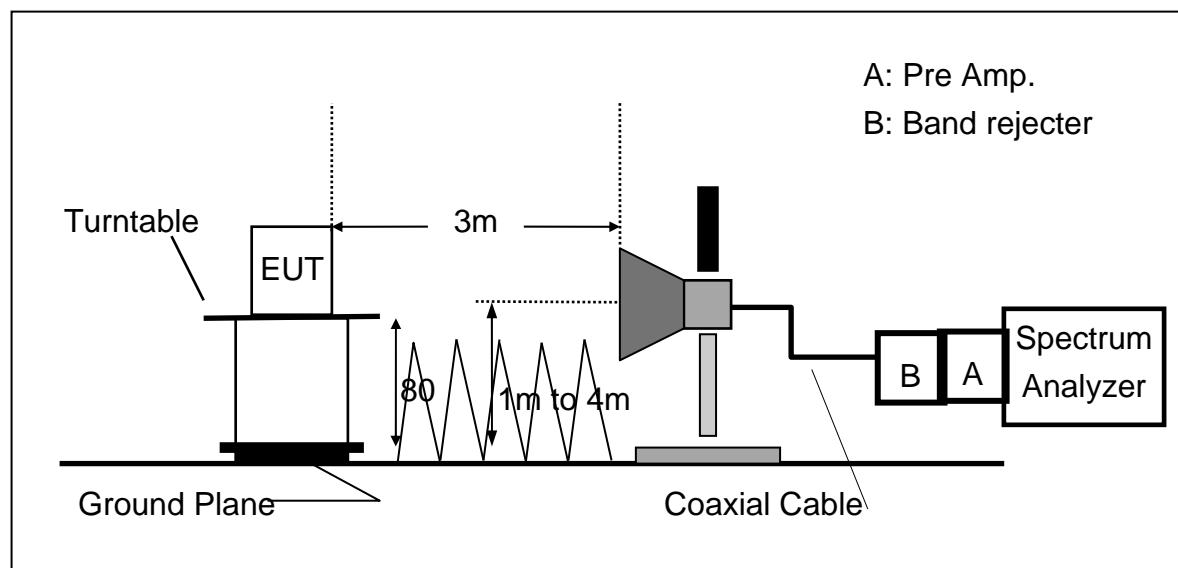
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### 13.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 13.3. Measurement Procedure:

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

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

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

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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f (886-2) 2298-0488

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### 13.4. Measurement Equipment Used:

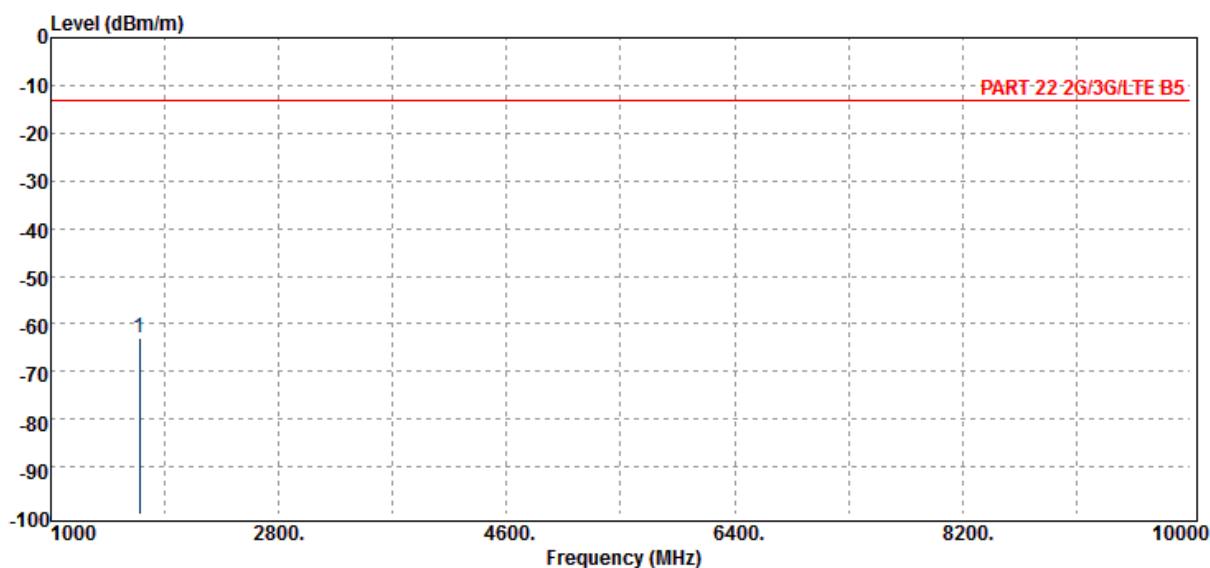
ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/19/2017	09/18/2018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

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



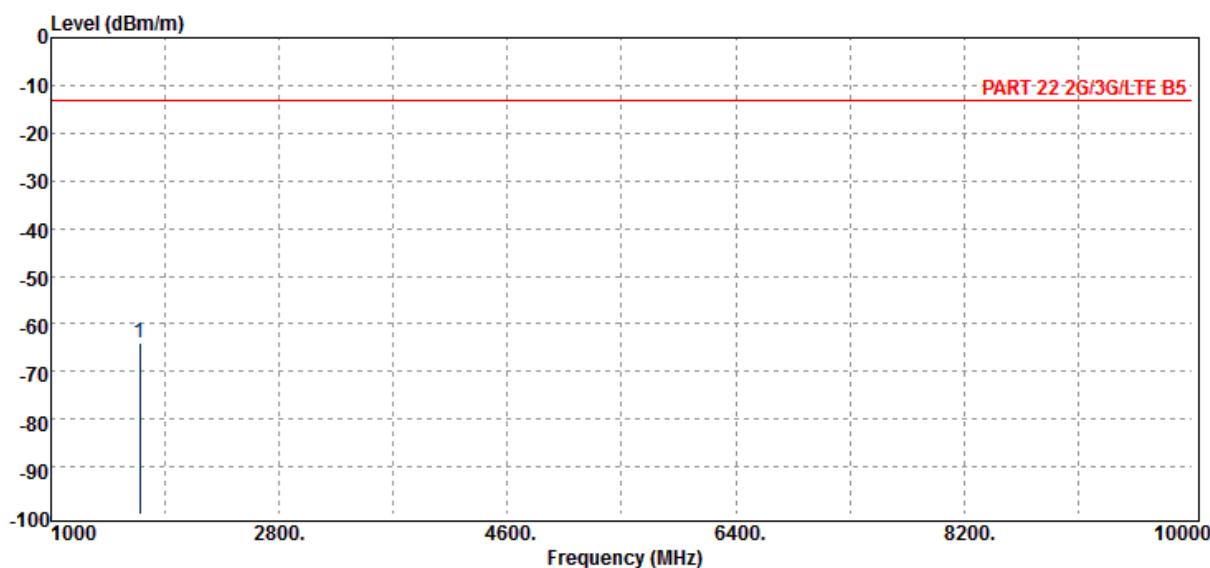
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
F/H/E/S							
1697.60	H	-63.08	-66.05	7.28	-4.31	-13.00	-50.08

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



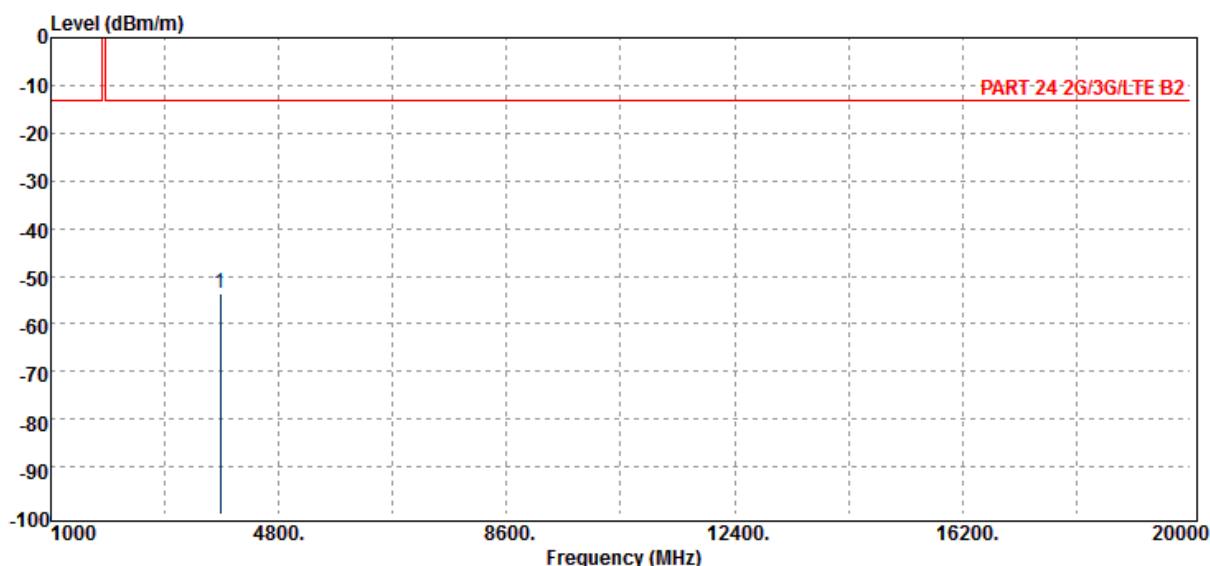
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
F/H/E/S							
1697.60	H	-64.12	-67.10	7.28	-4.31	-13.00	-51.12

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



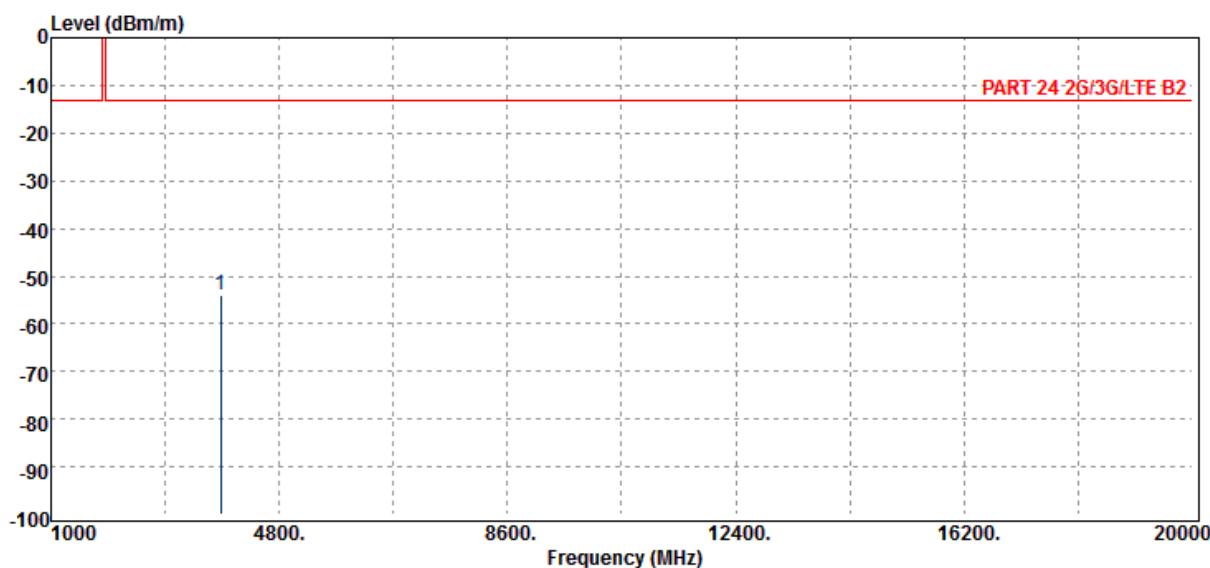
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-53.69	-59.50	12.47	-6.65	-13.00	-40.69

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



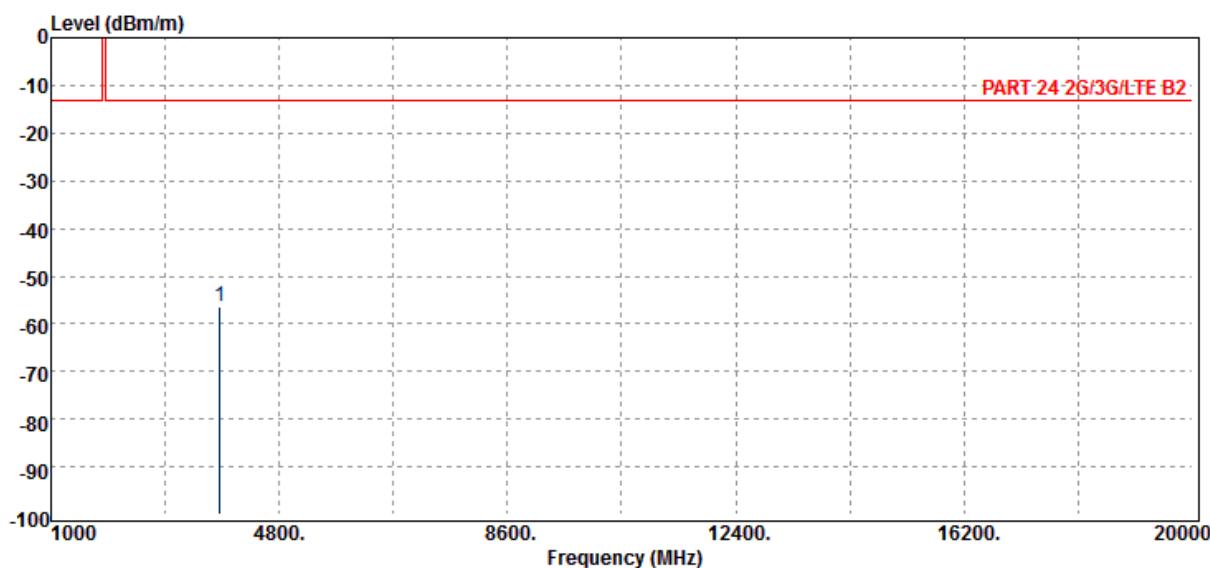
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-53.95	-59.77	12.47	-6.65	-13.00	-40.95

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



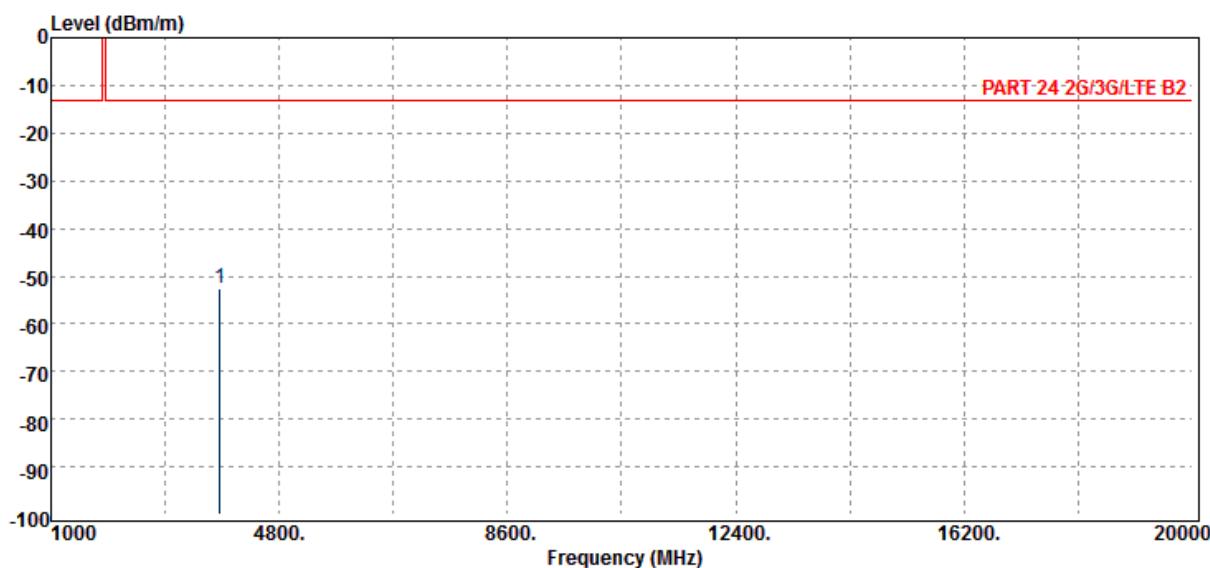
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-56.35	-62.18	12.46	-6.63	-13.00	-43.35

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



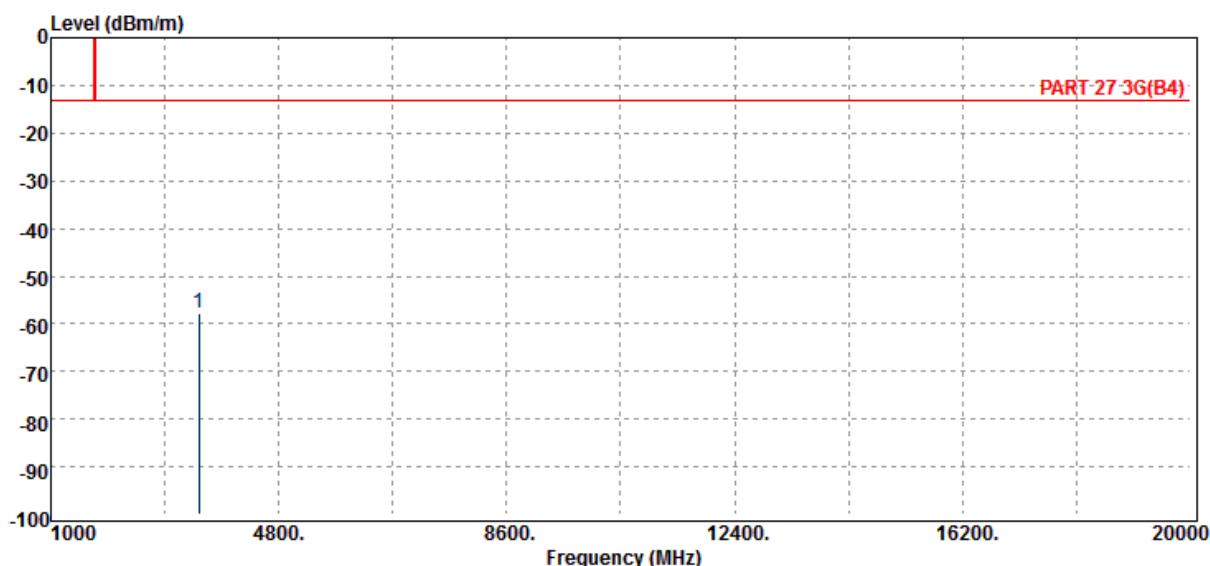
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-52.75	-58.58	12.46	-6.63	-13.00	-39.75

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



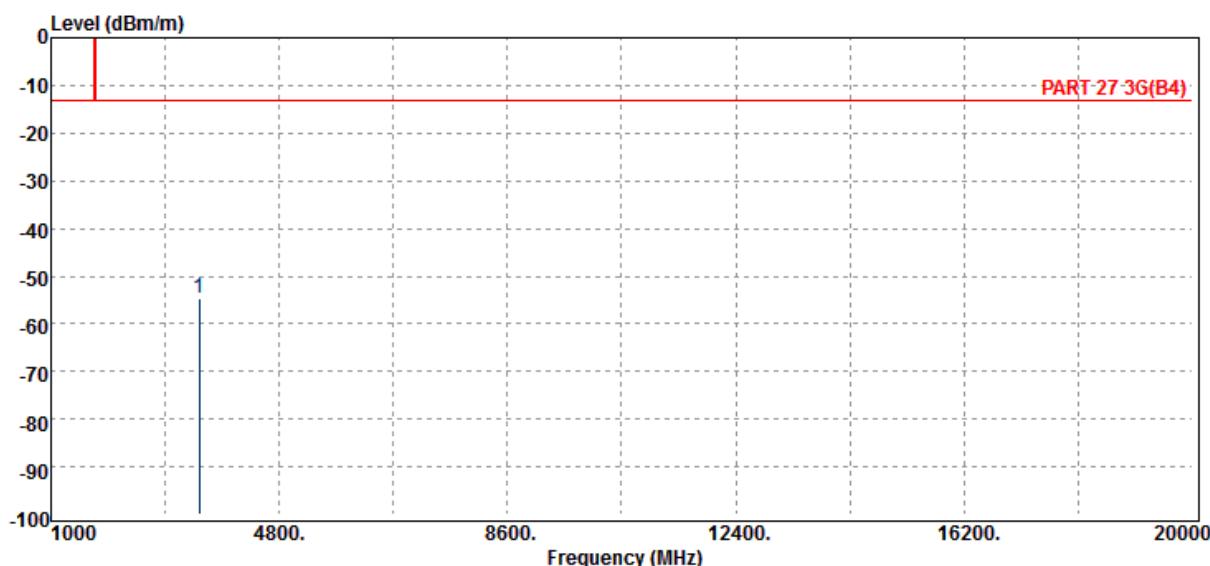
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3465.20	H	-57.65	-63.75	12.34	-6.25	-13.00	-44.65

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



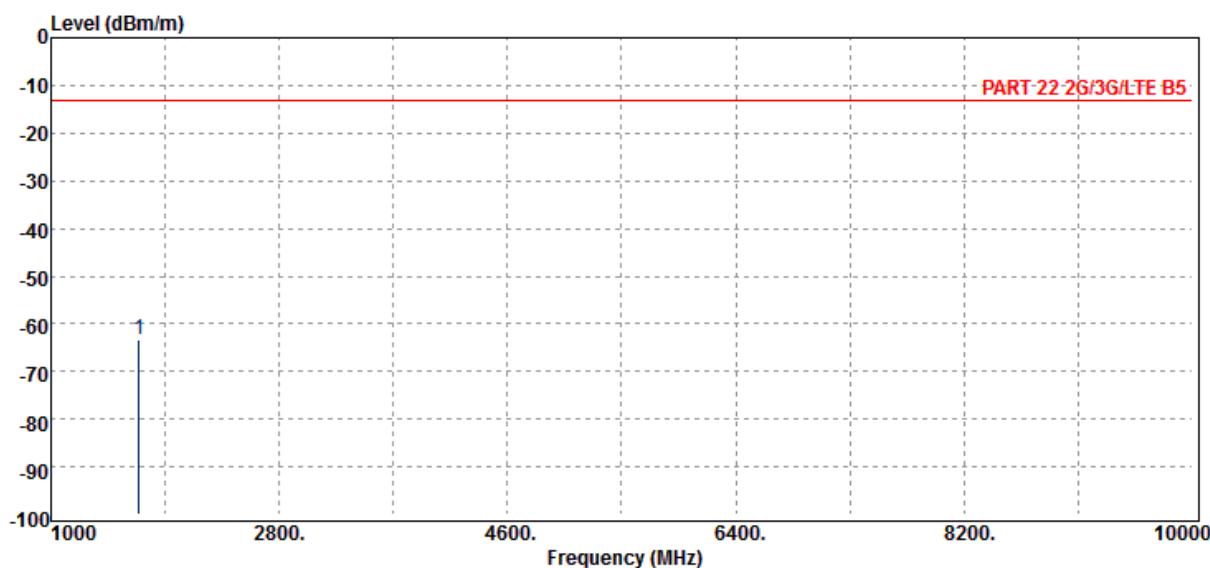
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level	Gain	Loss		
3465.20	H	-54.75	-60.85	12.34	-6.25	-13.00	-41.75

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



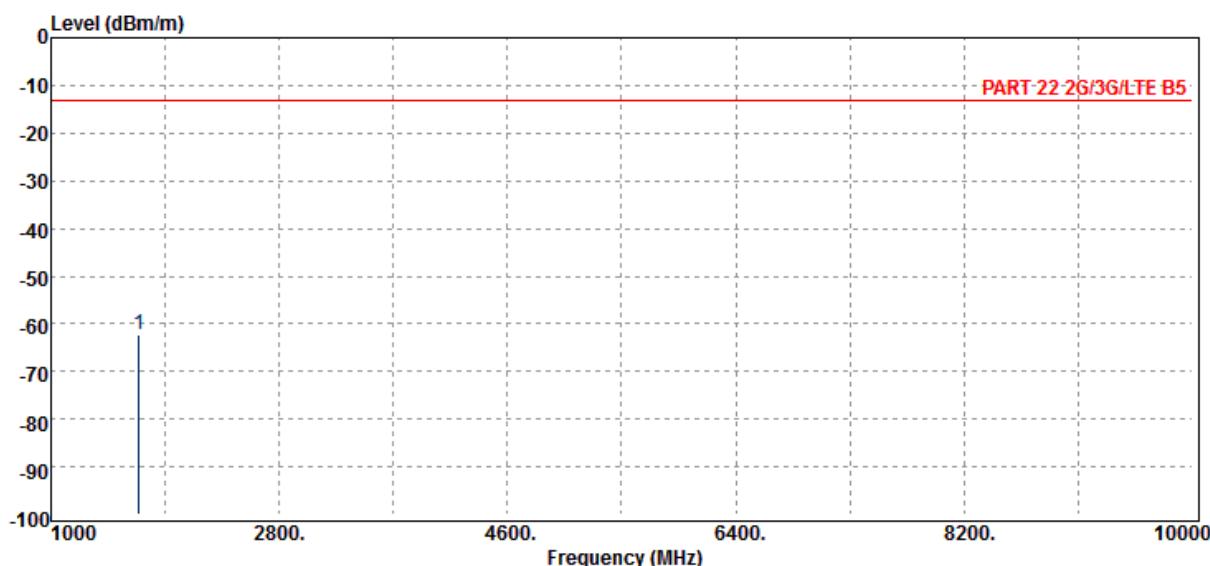
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
F/H/E/S							
1693.20	H	-63.34	-66.31	7.27	-4.30	-13.00	-50.34

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



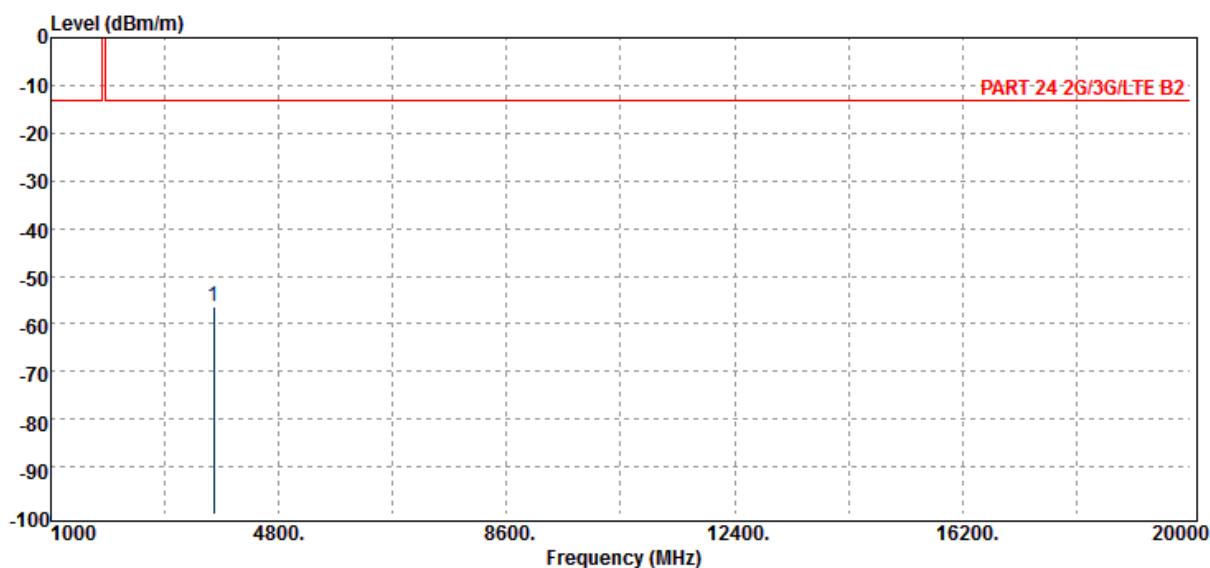
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
F/H/E/S							
1693.20	H	-62.29	-65.25	7.27	-4.30	-13.00	-49.29

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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



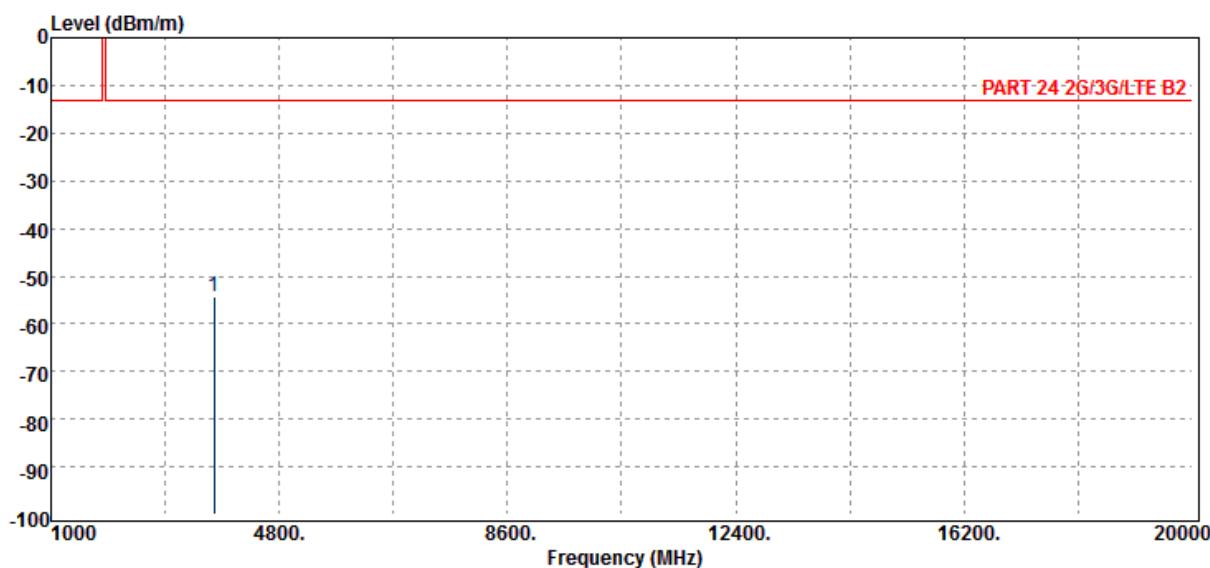
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level	Gain	Loss		
3710.00	H	-56.47	-62.33	12.44	-6.58	-13.00	-43.47

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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



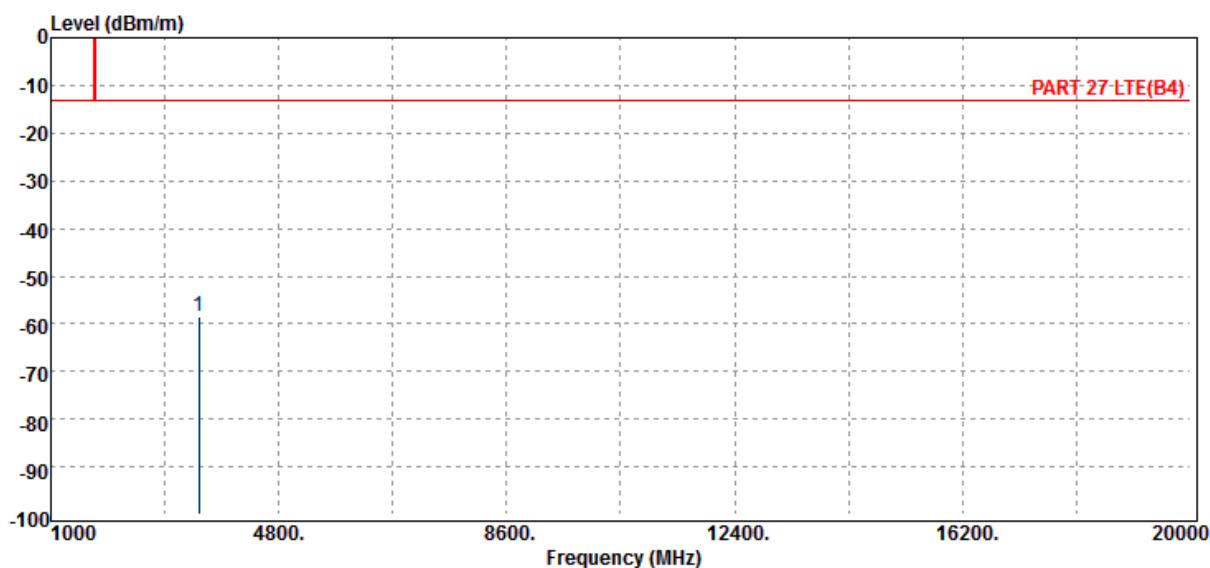
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3710.00	H	-54.48	-60.35	12.44	-6.58	-13.00	-41.48

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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



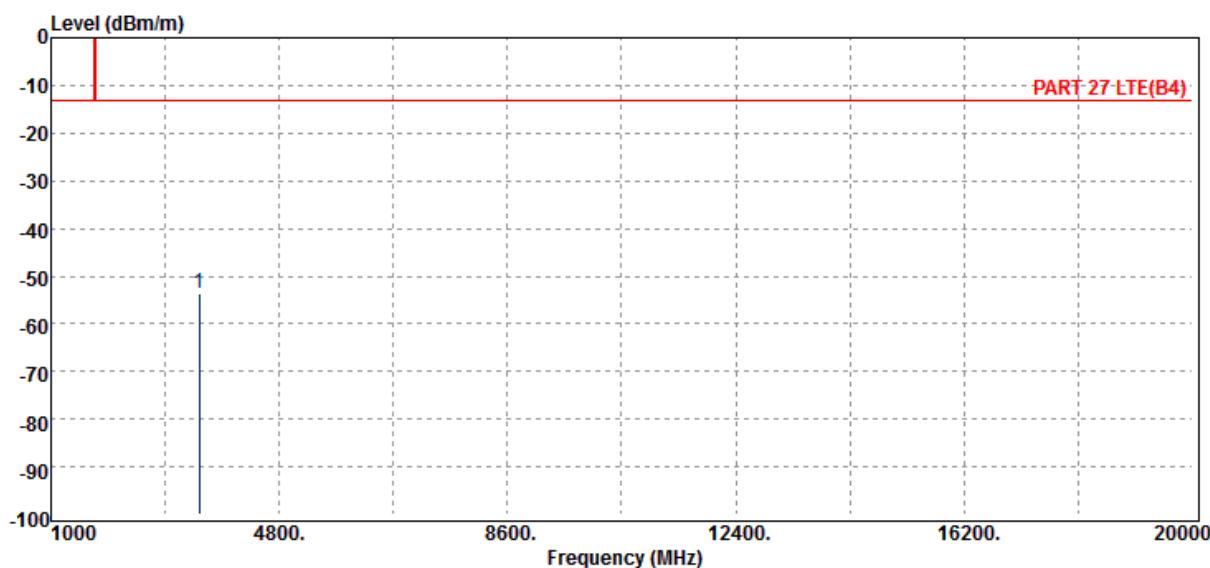
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level	Gain	Loss		
3465.00	H	-58.53	-64.63	12.34	-6.25	-13.00	-45.53

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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



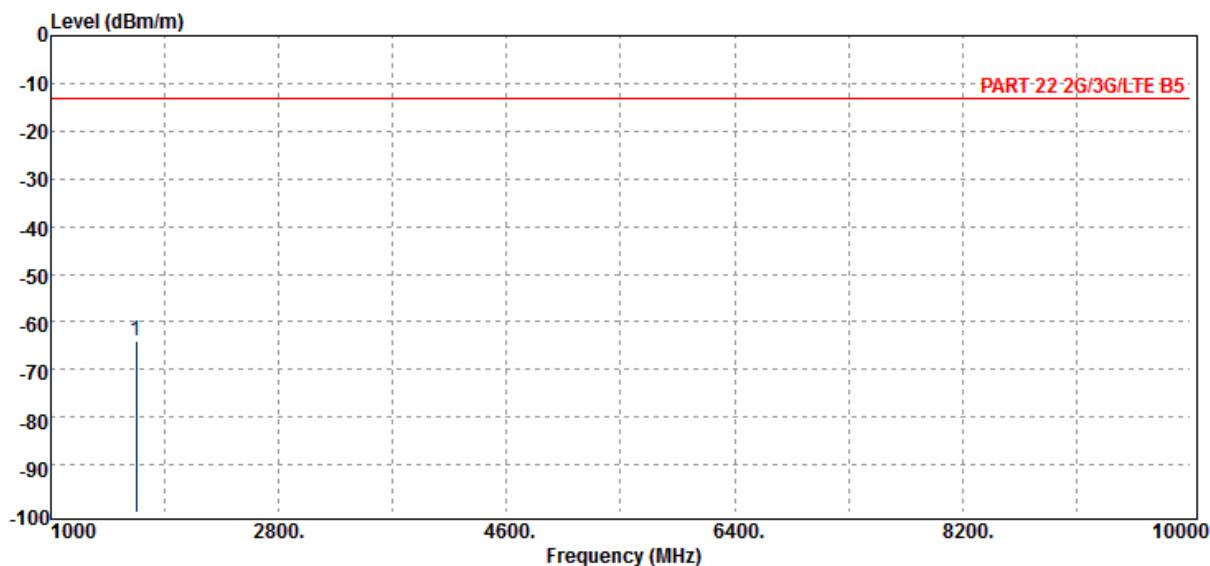
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level	Gain	Loss		
3465.00	H	-53.47	-59.57	12.34	-6.25	-13.00	-40.47

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



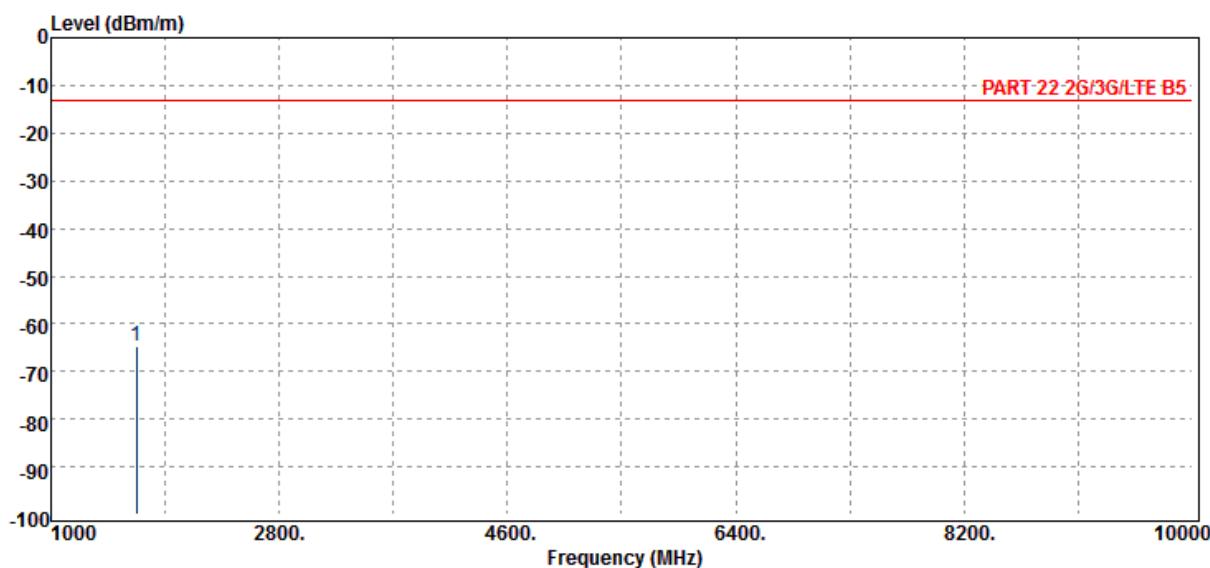
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1673.00	H	-62.02	-67.08	9.35	-4.29	-13	-49.02

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



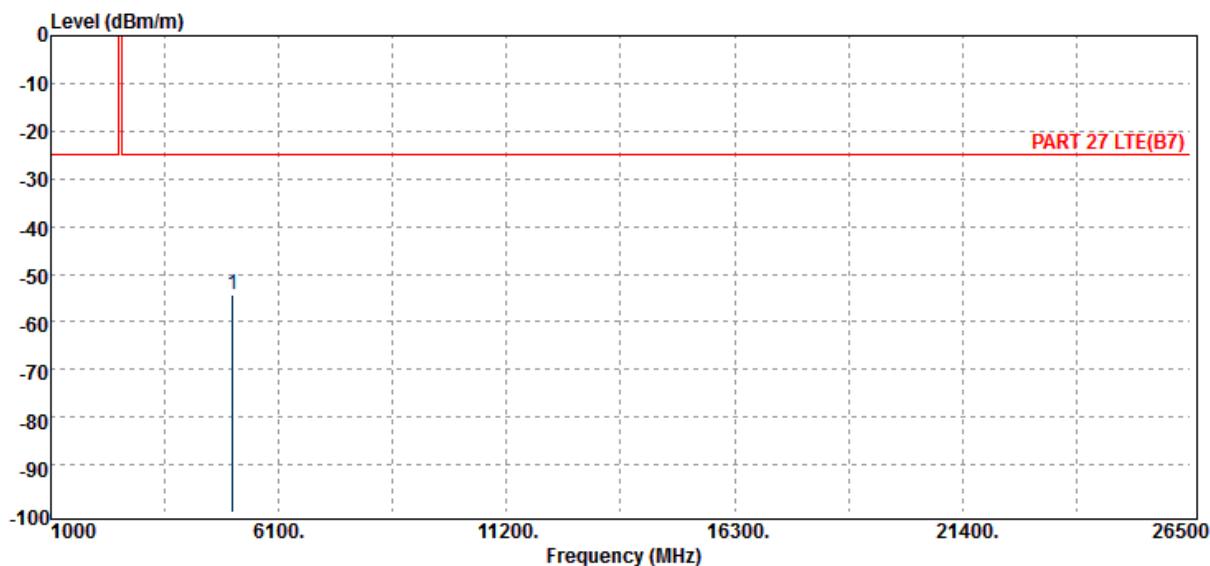
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1673.00	H	-62.49	-67.55	9.35	-4.29	-13	-49.49

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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



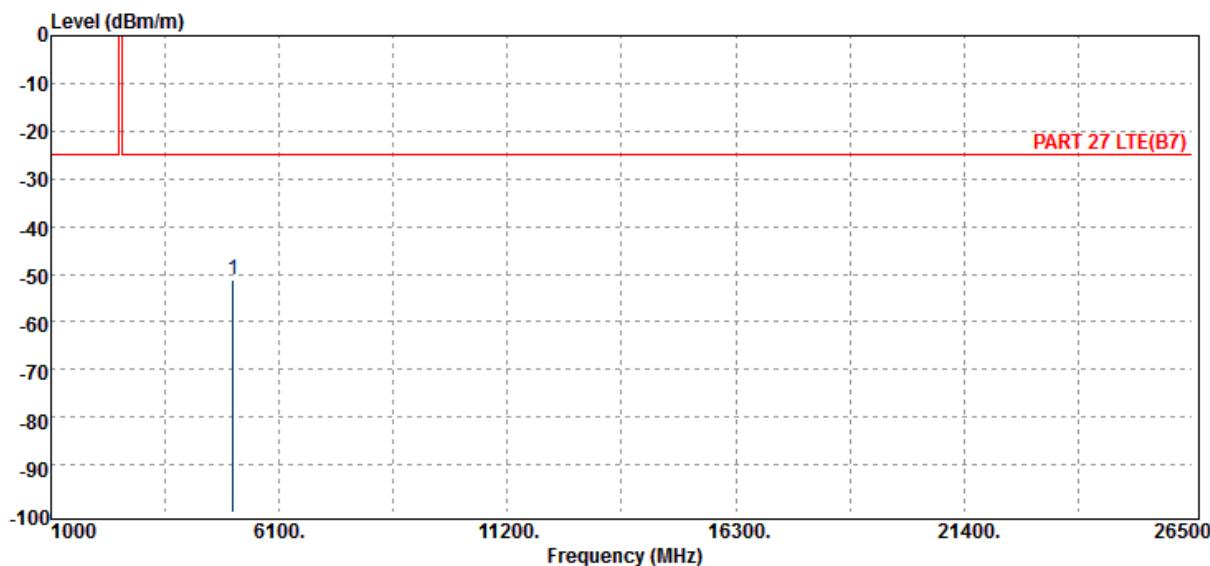
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
	F/H/E/S						
5070.00	H	-54.18	-59.05	12.73	-7.86	-25.00	-29.18

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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



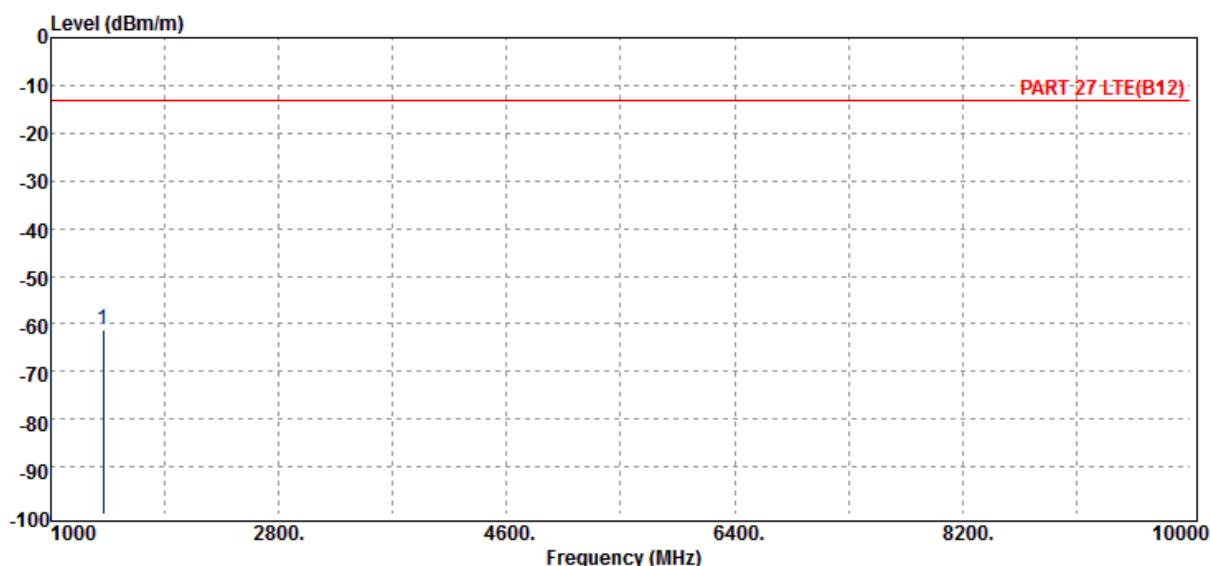
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5070.00	H	-51.34	-56.21	12.73	-7.86	-25.00	-26.34

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



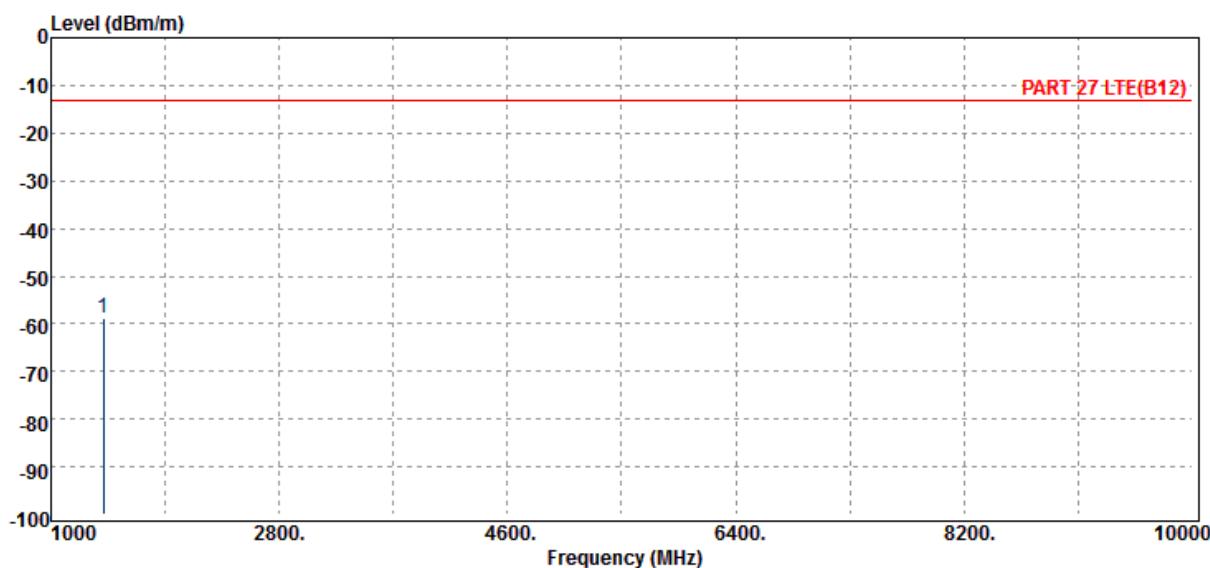
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1415.00	H	-59.08	-65.66	10.49	-3.91	-13	-46.08

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



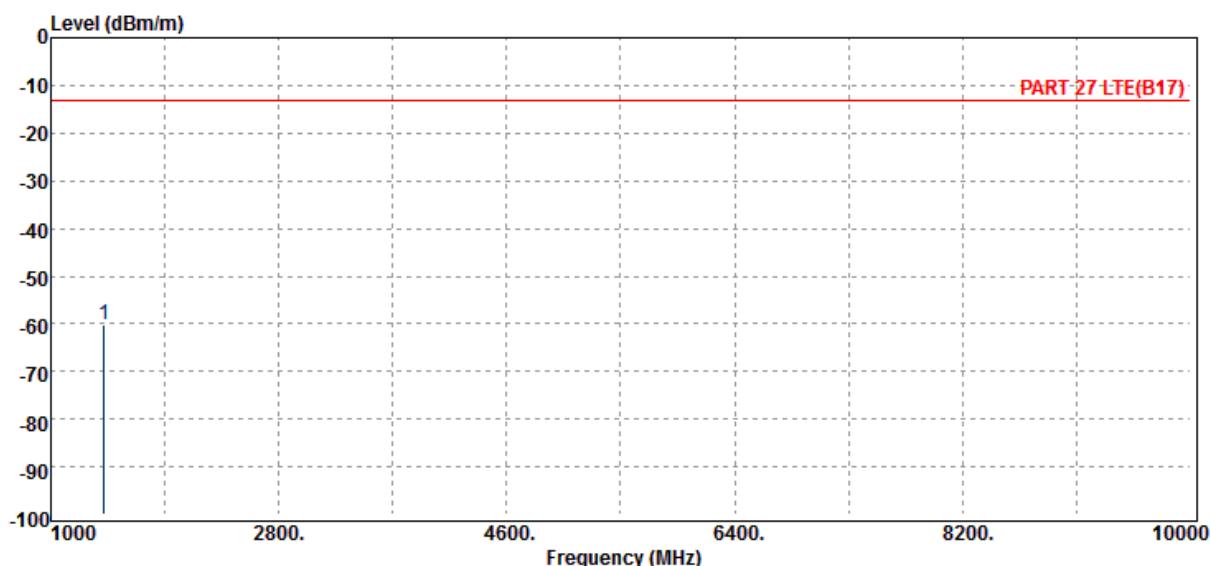
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1415.00	H	-56.84	-63.42	10.49	-3.91	-13	-43.84

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



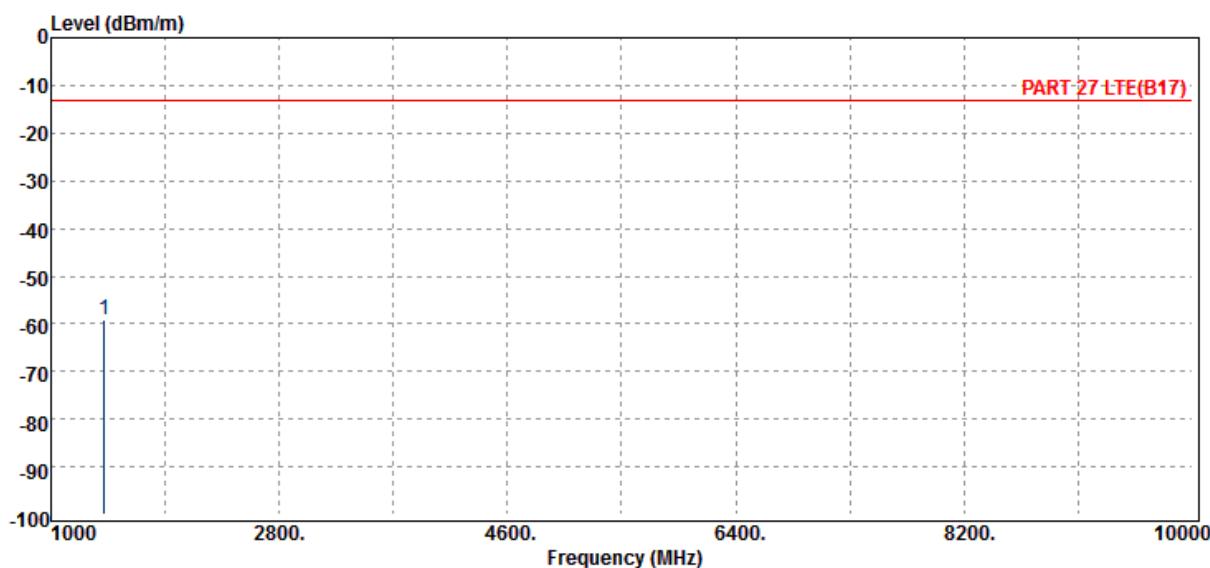
Freq. MHz	Note	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
F/H/E/S							
1420.00	H	-60.05	-64.49	8.36	-3.92	-13.00	-47.05

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



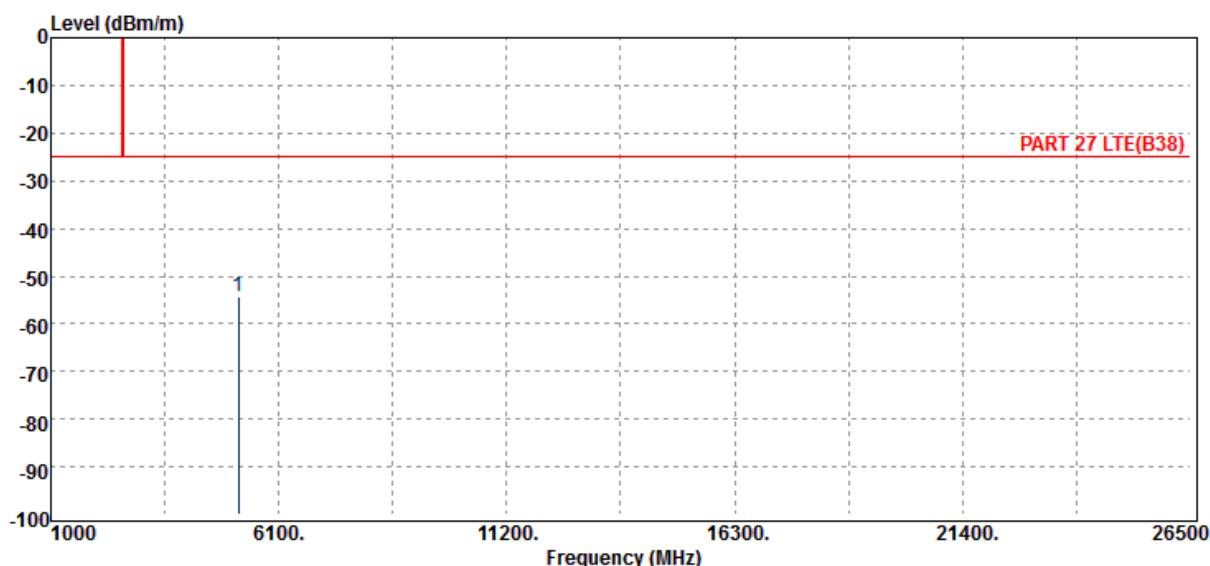
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
1420.00	H	-59.08	-63.52	8.36	-3.92	-13.00	-46.08

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Operation Band :LTE B38  
 Fundamental Frequency :2595.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



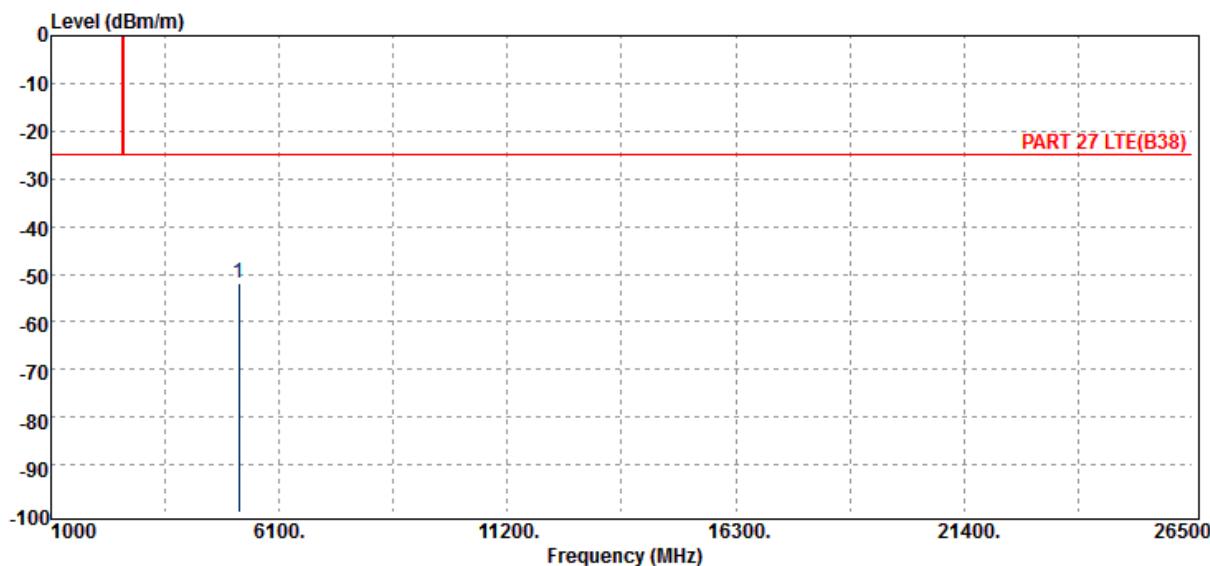
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5190.00	H	-54.41	-59.24	12.78	-7.95	-25.00	-29.41

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Operation Band :LTE B38  
 Fundamental Frequency :2595.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level	Gain	Loss		
5190.00	H	-51.82	-56.65	12.78	-7.95	-25.00	-26.82

*~ End of Report ~*

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