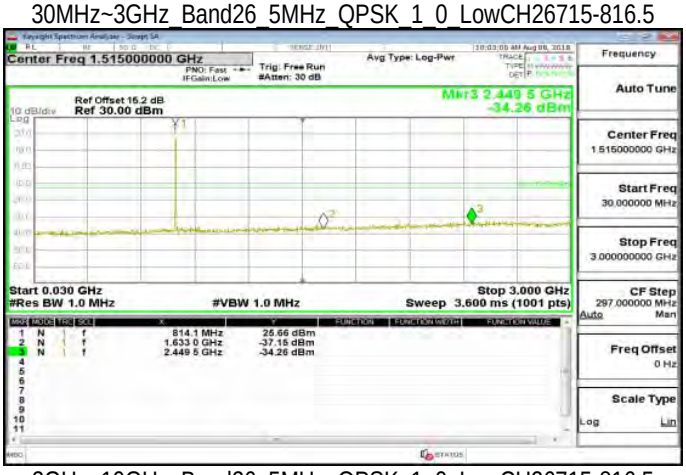
30MHz~3GHz_Band26_5MHz_QPSK_1_0_LowCH26715-816.5



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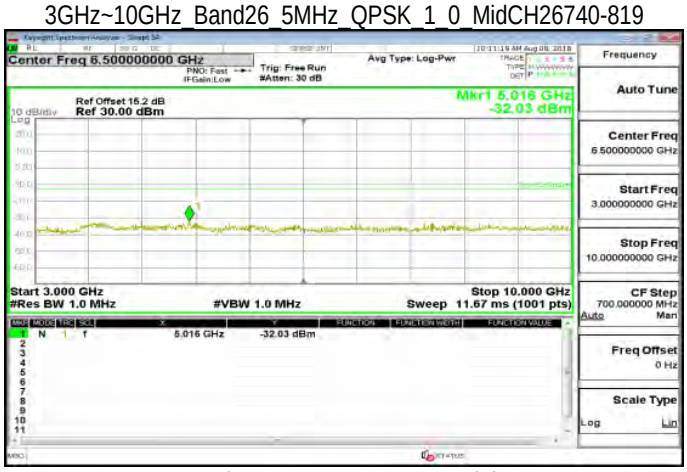

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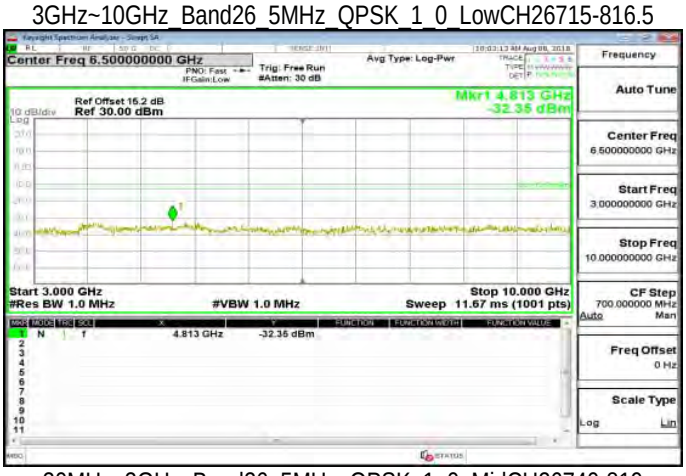

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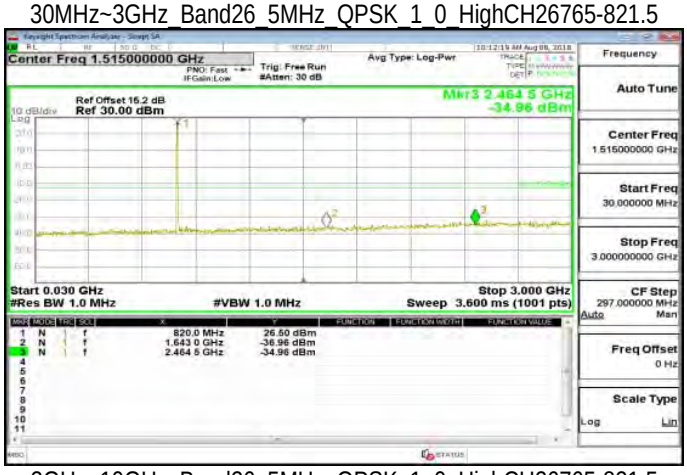

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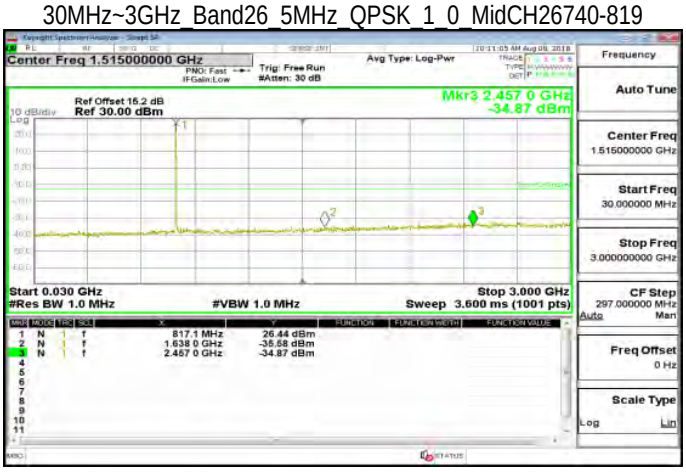

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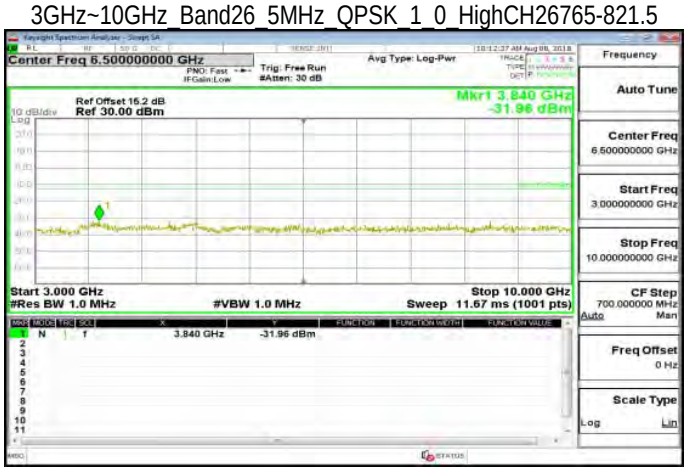

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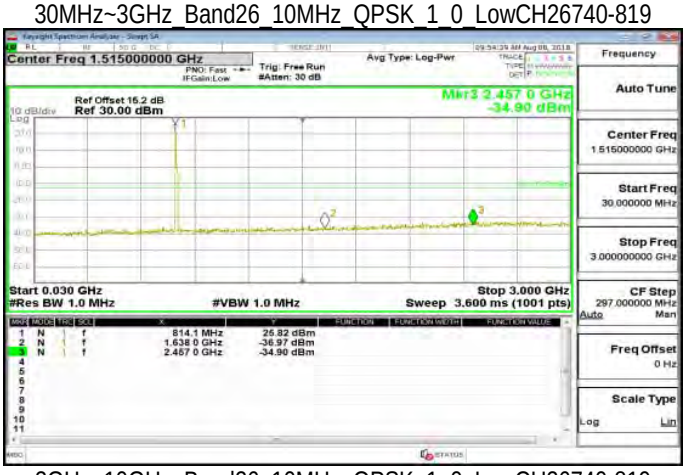
30MHz~3GHz_Band26_10MHz_QPSK_1_0_LowCH26740-819



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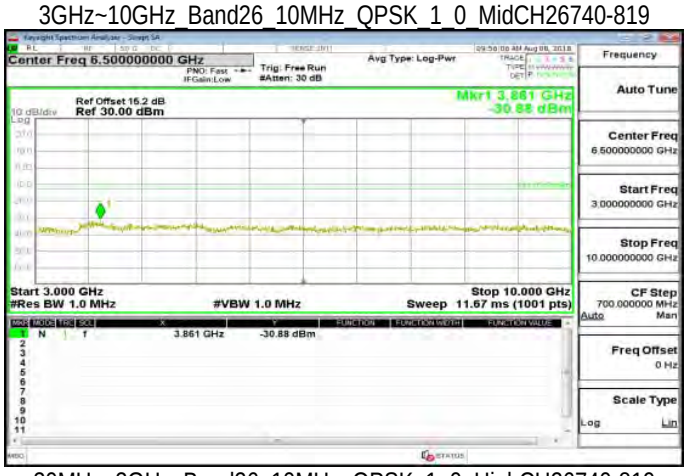

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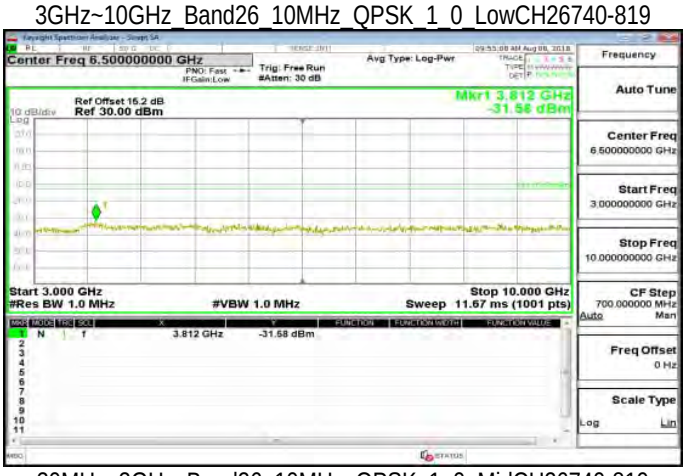

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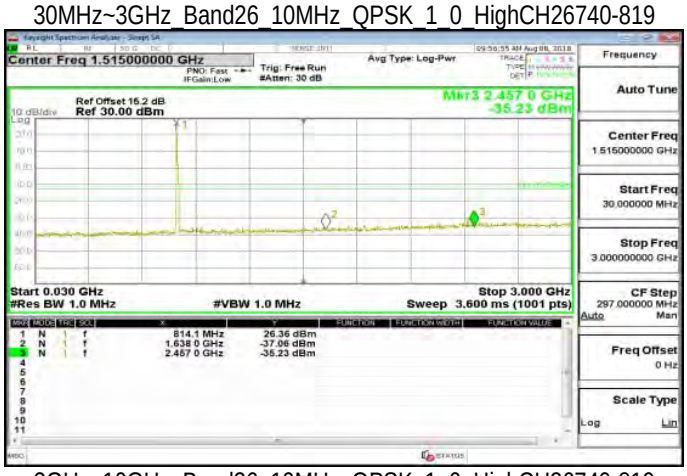

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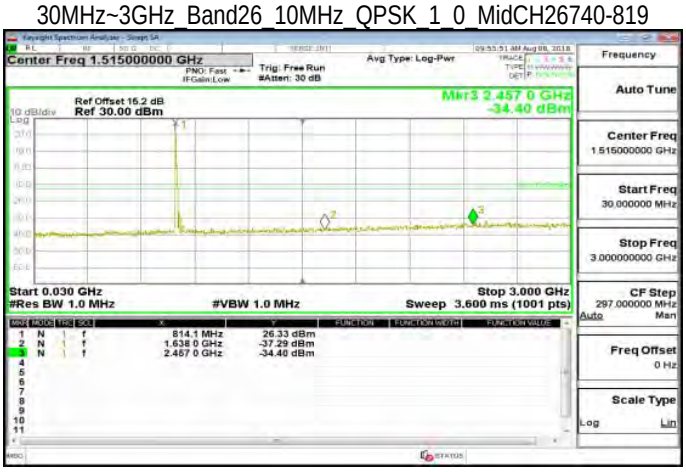

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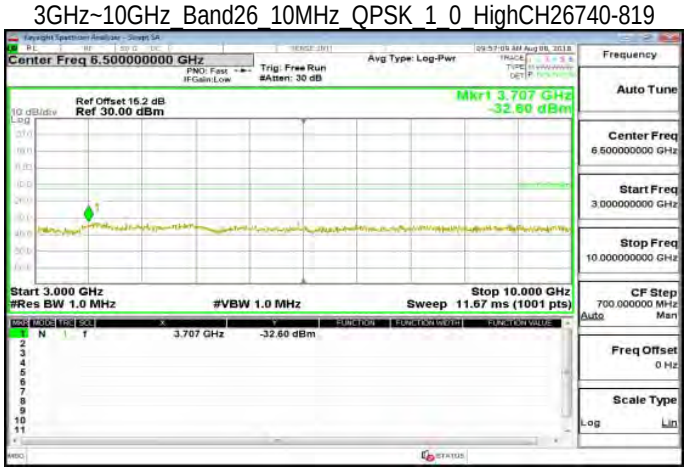

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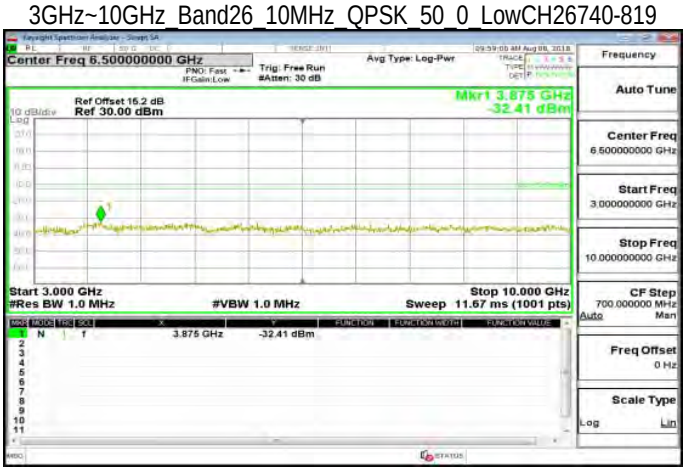
3GHz~10GHz_Band26_10MHz_QPSK_50_0_LowCH26740-819



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053,
FCC §22.917(a) , §24.238(a) , §27.53 (h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).
§27.53 (c)
(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)
(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC 27.53(a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

FCC §27.53(m) (4) (6)

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

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

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

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

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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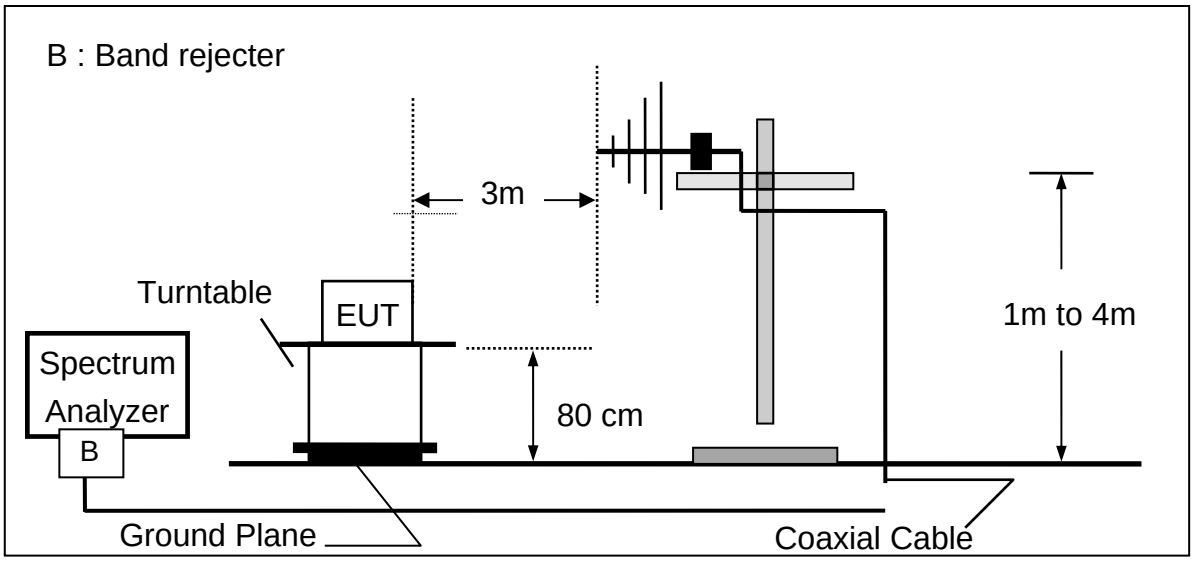
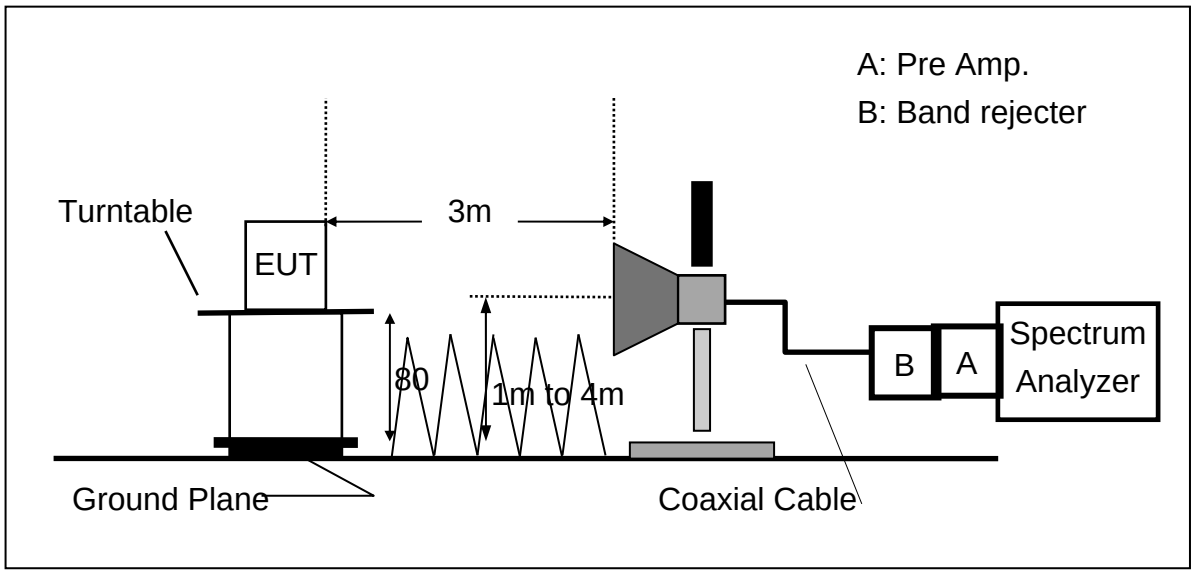
9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. 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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

9.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2018/08/04	2019/08/03
Horn Antenna	Schwarzbeck	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber	N/A	2018/01/02	2019/01/01
Spectrum Analyzer	Agilent	E4446A	MY51100003	2018/05/15	2019/05/14
EMI Test Receiver	R&S	ESCI7	100335	2018/02/02	2019/02/01
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/01/01
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/01/01
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	2018/01/02	2019/01/01
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	2018/01/02	2019/01/01
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/01/01

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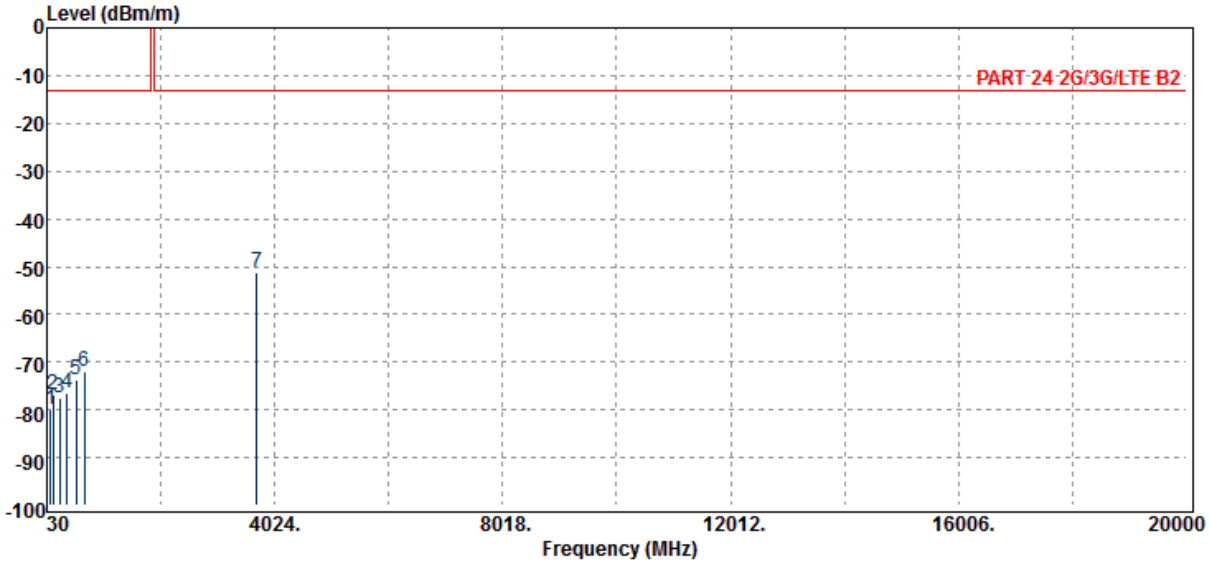
9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
88.20	-79.78	-77.92	-0.85	-1.00	-13.00	-66.78
141.55	-76.85	-73.36	-2.22	-1.27	-13.00	-63.85
260.86	-77.64	-79.59	3.66	-1.70	-13.00	-64.64
382.11	-76.49	-78.23	3.76	-2.02	-13.00	-63.49
549.92	-73.61	-75.57	3.98	-2.02	-13.00	-60.61
691.54	-71.94	-72.80	3.70	-2.83	-13.00	-58.94
3704.80	-51.30	-56.96	12.57	-6.90	-13.00	-38.30

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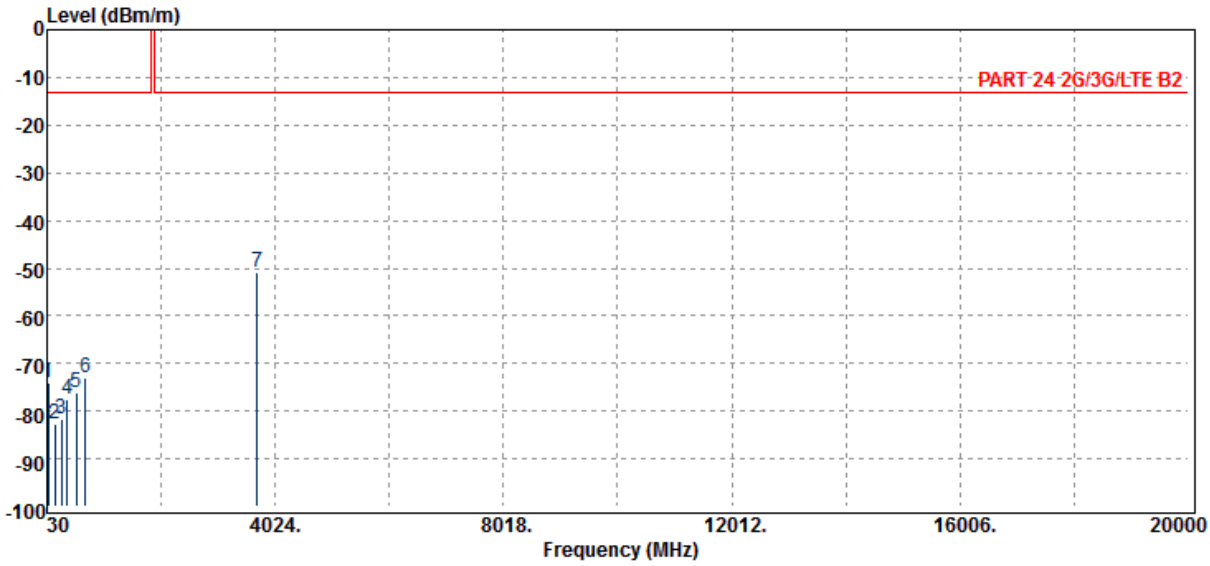
Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-74.19	-61.83	-11.65	-0.72	-13.00	-61.19
162.89	-82.58	-80.22	-1.06	-1.31	-13.00	-69.58
289.96	-81.63	-83.27	3.42	-1.78	-13.00	-68.63
381.14	-77.38	-79.13	3.77	-2.02	-13.00	-64.38
542.16	-76.16	-78.29	3.99	-1.87	-13.00	-63.16
696.39	-72.91	-74.14	3.69	-2.46	-13.00	-59.91
3704.80	-50.88	-56.54	12.57	-6.90	-13.00	-37.88

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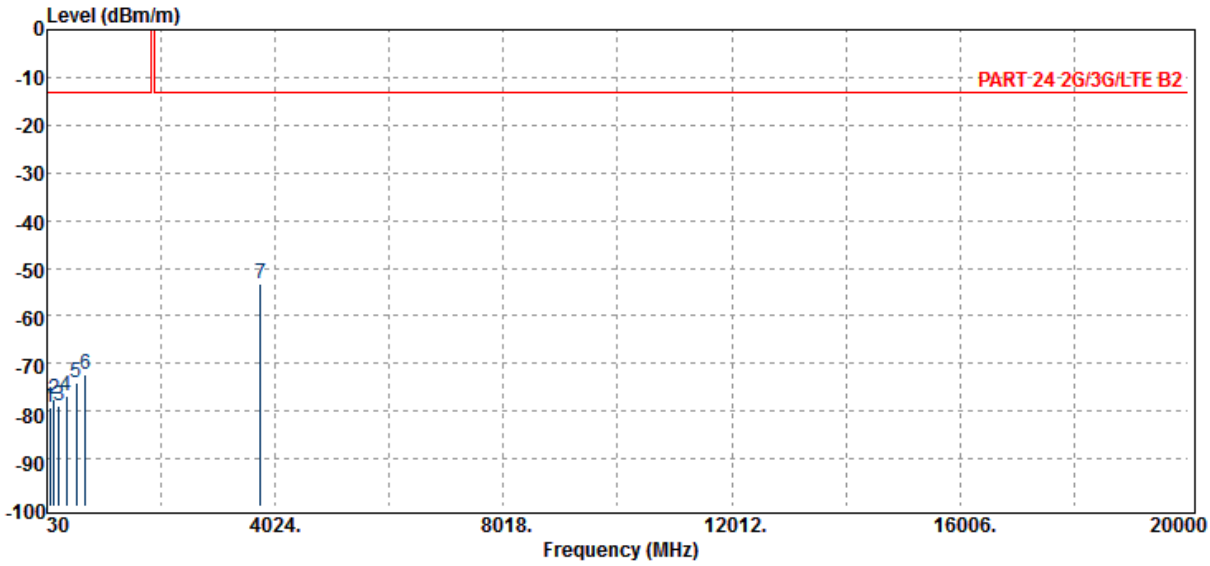
Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-79.24	-77.05	-1.20	-0.99	-13.00	-66.24
148.34	-77.42	-74.25	-1.89	-1.29	-13.00	-64.42
243.40	-78.83	-80.64	3.50	-1.68	-13.00	-65.83
366.59	-76.82	-78.56	3.81	-2.07	-13.00	-63.82
536.34	-74.15	-76.04	4.00	-2.11	-13.00	-61.15
699.30	-72.18	-73.62	3.68	-2.24	-13.00	-59.18
3760.00	-53.14	-58.86	12.61	-6.89	-13.00	-40.14

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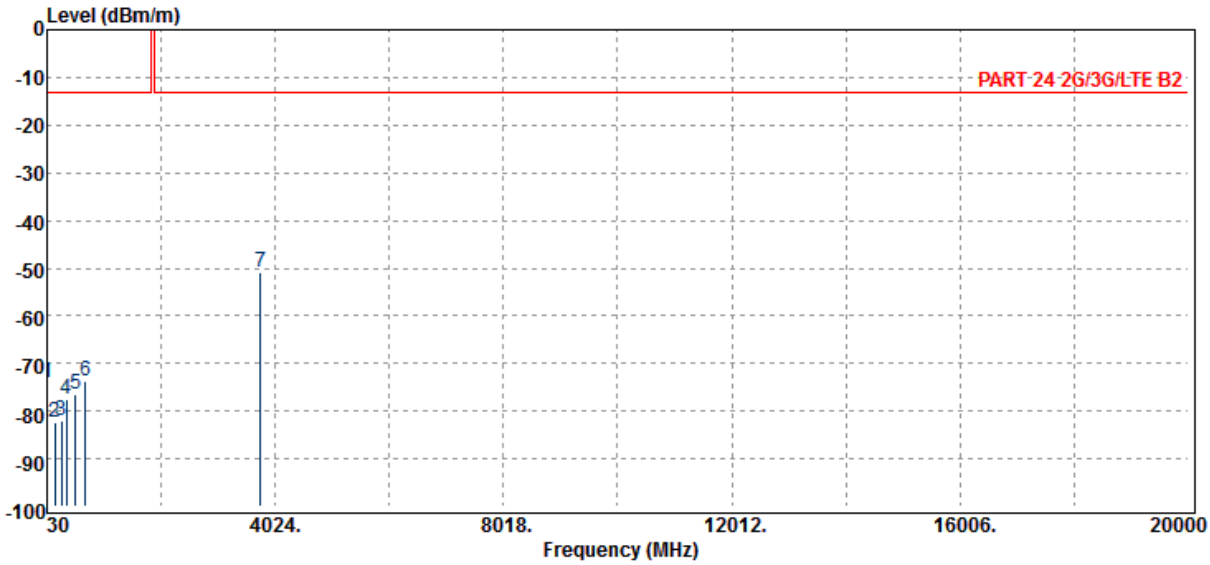
Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	-74.19	-60.81	-12.72	-0.66	-13.00	-61.19
166.77	-82.33	-80.20	-0.82	-1.32	-13.00	-69.33
287.05	-82.12	-83.77	3.42	-1.77	-13.00	-69.12
369.50	-77.36	-79.10	3.80	-2.06	-13.00	-64.36
529.55	-76.48	-78.11	4.01	-2.39	-13.00	-63.48
700.27	-73.69	-75.20	3.67	-2.16	-13.00	-60.69
3760.00	-51.04	-56.77	12.61	-6.89	-13.00	-38.04

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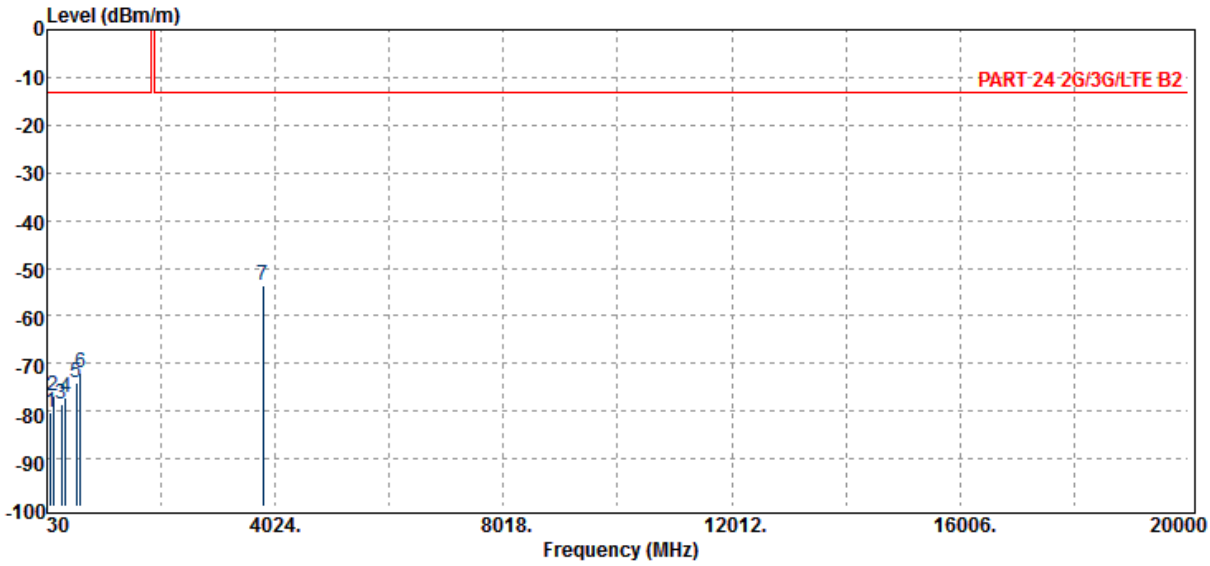
Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-80.13	-78.50	-0.62	-1.01	-13.00	-67.13
143.49	-76.87	-73.47	-2.13	-1.28	-13.00	-63.87
280.26	-78.43	-80.10	3.42	-1.75	-13.00	-65.43
361.74	-77.11	-78.86	3.82	-2.06	-13.00	-64.11
547.01	-74.21	-76.33	3.98	-1.86	-13.00	-61.21
619.76	-71.98	-73.00	3.66	-2.63	-13.00	-58.98
3815.20	-53.54	-59.19	12.66	-7.00	-13.00	-40.54

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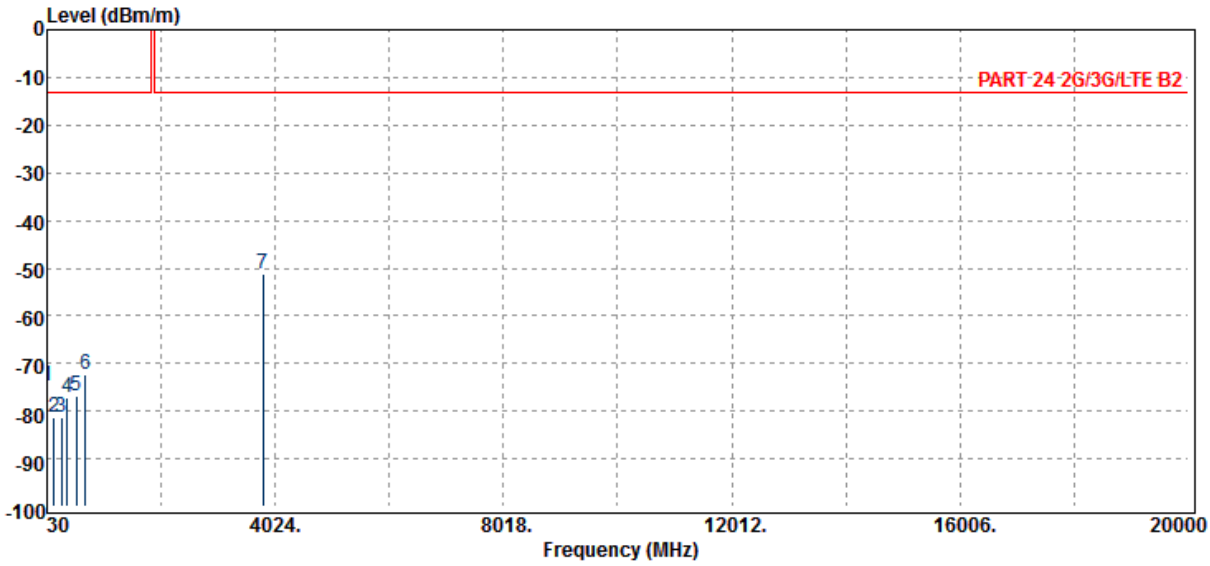
Operation Band	:WCDMA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-74.70	-59.54	-14.58	-0.58	-13.00	-61.70
148.34	-81.24	-78.06	-1.89	-1.29	-13.00	-68.24
285.11	-81.26	-82.92	3.42	-1.76	-13.00	-68.26
382.11	-77.27	-79.02	3.76	-2.02	-13.00	-64.27
547.01	-76.67	-78.79	3.98	-1.86	-13.00	-63.67
697.36	-72.22	-73.51	3.68	-2.38	-13.00	-59.22
3815.20	-51.07	-56.72	12.66	-7.00	-13.00	-38.07

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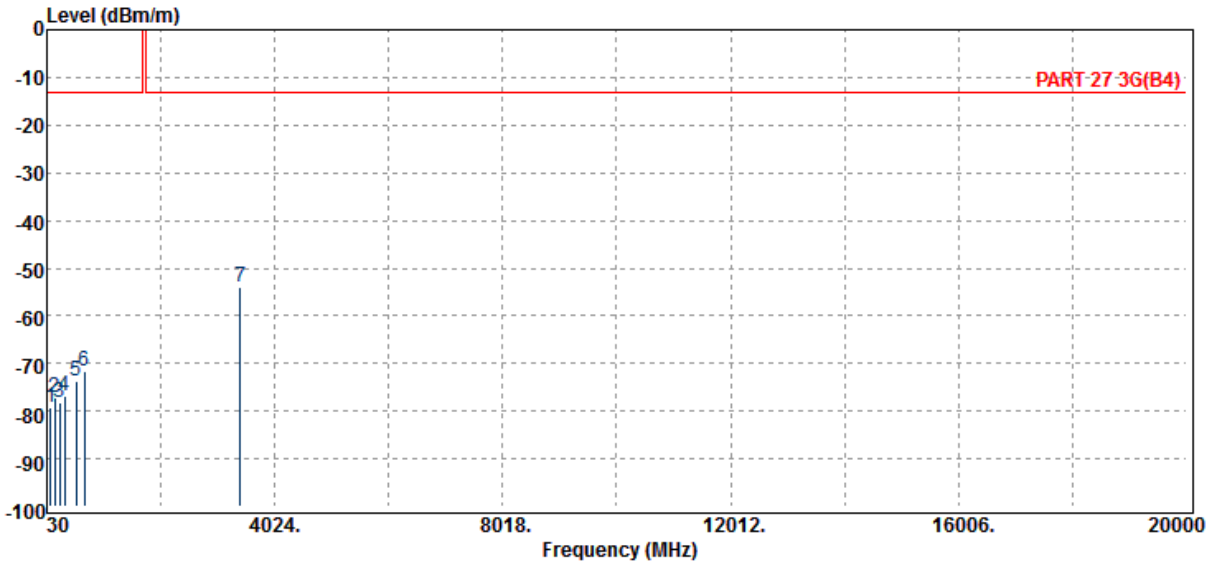
Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	-79.12	-77.56	-0.55	-1.01	-13.00	-66.12
166.77	-77.32	-75.19	-0.82	-1.32	-13.00	-64.32
260.86	-78.21	-80.17	3.66	-1.70	-13.00	-65.21
333.61	-76.76	-78.61	3.78	-1.93	-13.00	-63.76
548.95	-73.77	-75.78	3.98	-1.97	-13.00	-60.77
684.75	-71.63	-72.03	3.72	-3.32	-13.00	-58.63
3424.80	-54.03	-59.71	12.23	-6.54	-13.00	-41.03

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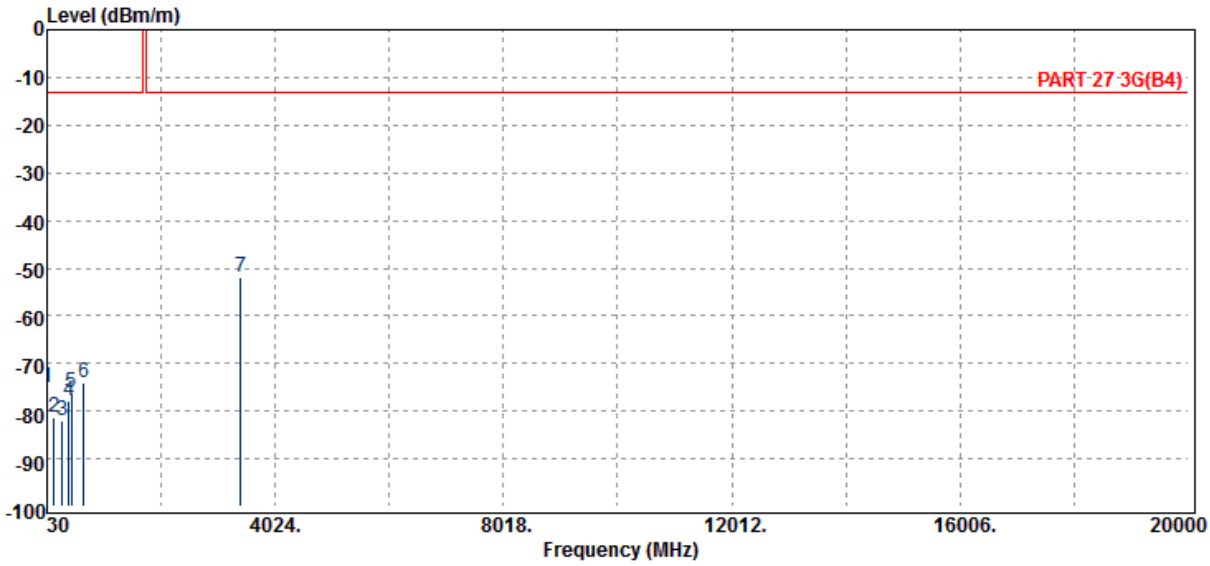
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	-75.25	-60.80	-13.84	-0.60	-13.00	-62.25
156.10	-81.39	-78.64	-1.46	-1.30	-13.00	-68.39
299.66	-82.03	-83.82	3.61	-1.82	-13.00	-69.03
418.00	-77.82	-79.35	3.65	-2.11	-13.00	-64.82
461.65	-76.14	-77.33	3.66	-2.47	-13.00	-63.14
668.26	-73.88	-75.48	3.77	-2.17	-13.00	-60.88
3424.80	-51.75	-57.44	12.23	-6.54	-13.00	-38.75

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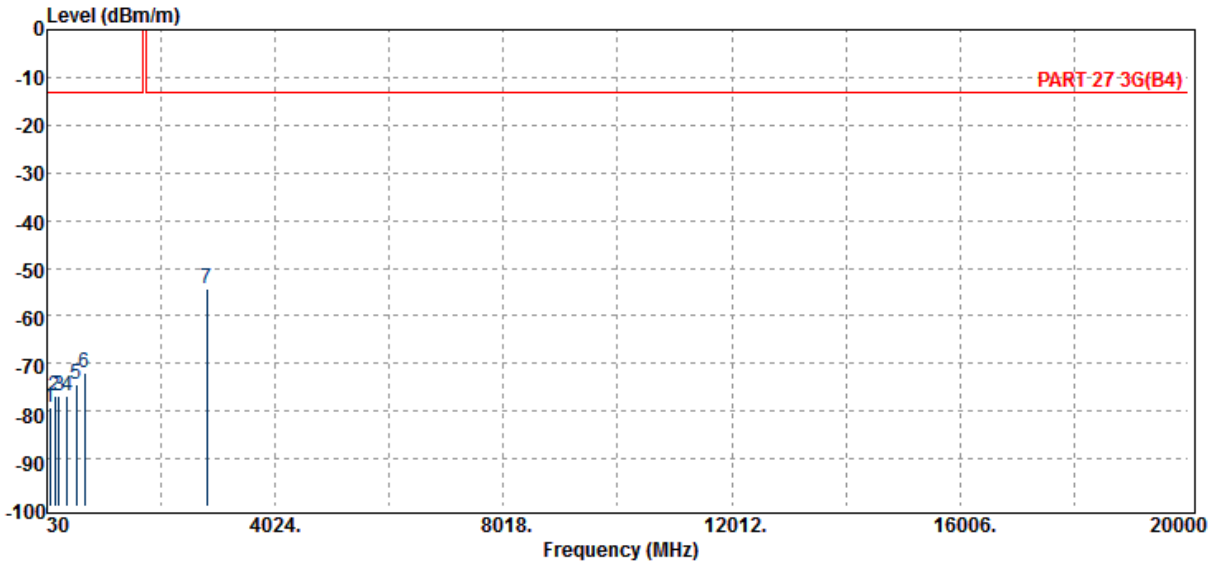
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-79.34	-76.63	-1.73	-0.98	-13.00	-66.34
173.56	-76.82	-75.43	-0.04	-1.35	-13.00	-63.82
240.49	-76.80	-78.61	3.48	-1.67	-13.00	-63.80
384.05	-76.96	-78.71	3.76	-2.01	-13.00	-63.96
549.92	-74.24	-76.20	3.98	-2.02	-13.00	-61.24
689.60	-72.01	-72.74	3.71	-2.98	-13.00	-59.01
2826.00	-54.21	-59.29	10.97	-5.90	-13.00	-41.21

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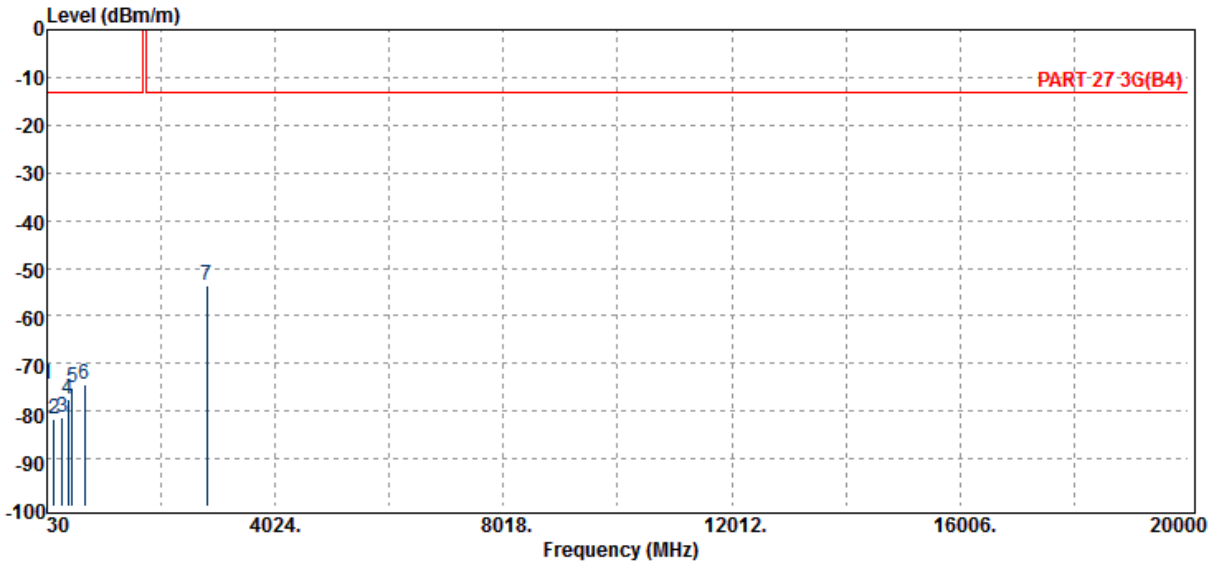
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	-74.31	-60.31	-13.38	-0.62	-13.00	-61.31
156.10	-81.81	-79.05	-1.46	-1.30	-13.00	-68.81
299.66	-81.42	-83.21	3.61	-1.82	-13.00	-68.42
398.60	-77.52	-79.13	3.72	-2.10	-13.00	-64.52
471.35	-74.96	-76.39	3.76	-2.34	-13.00	-61.96
687.66	-74.23	-74.80	3.71	-3.13	-13.00	-61.23
2826.00	-53.68	-58.75	10.97	-5.90	-13.00	-40.68

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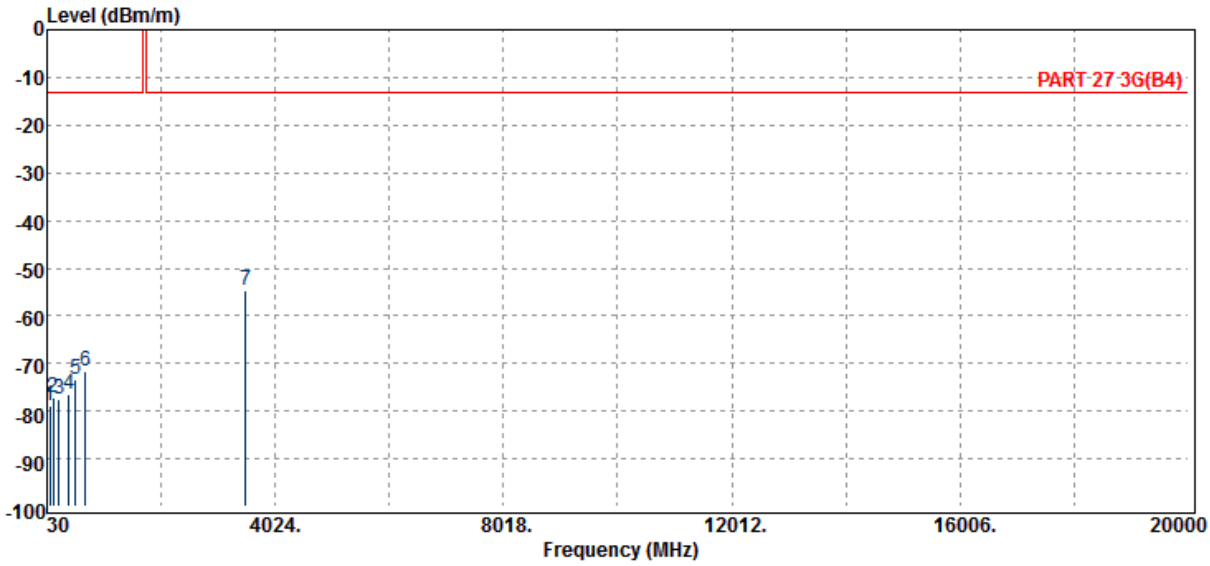
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	-78.81	-76.61	-1.20	-0.99	-13.00	-65.81
141.55	-77.12	-73.63	-2.22	-1.27	-13.00	-64.12
243.40	-77.55	-79.36	3.50	-1.68	-13.00	-64.55
411.21	-76.55	-78.09	3.67	-2.13	-13.00	-63.55
532.46	-73.34	-75.08	4.01	-2.27	-13.00	-60.34
699.30	-71.50	-72.94	3.68	-2.24	-13.00	-58.50
3505.20	-54.66	-60.40	12.40	-6.66	-13.00	-41.66

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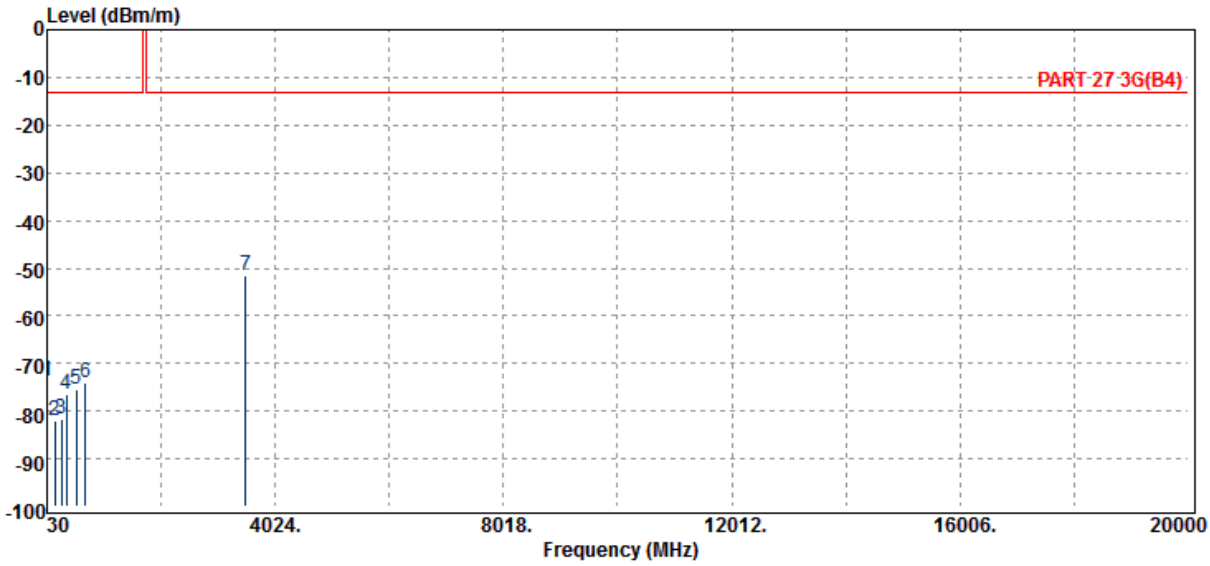
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	-73.73	-60.36	-12.72	-0.66	-13.00	-60.73
166.77	-81.90	-79.77	-0.82	-1.32	-13.00	-68.90
286.08	-81.81	-83.46	3.42	-1.76	-13.00	-68.81
376.29	-76.54	-78.29	3.78	-2.03	-13.00	-63.54
546.04	-75.54	-77.71	3.99	-1.81	-13.00	-62.54
696.39	-74.07	-75.30	3.69	-2.46	-13.00	-61.07
3505.20	-51.66	-57.40	12.40	-6.66	-13.00	-38.66

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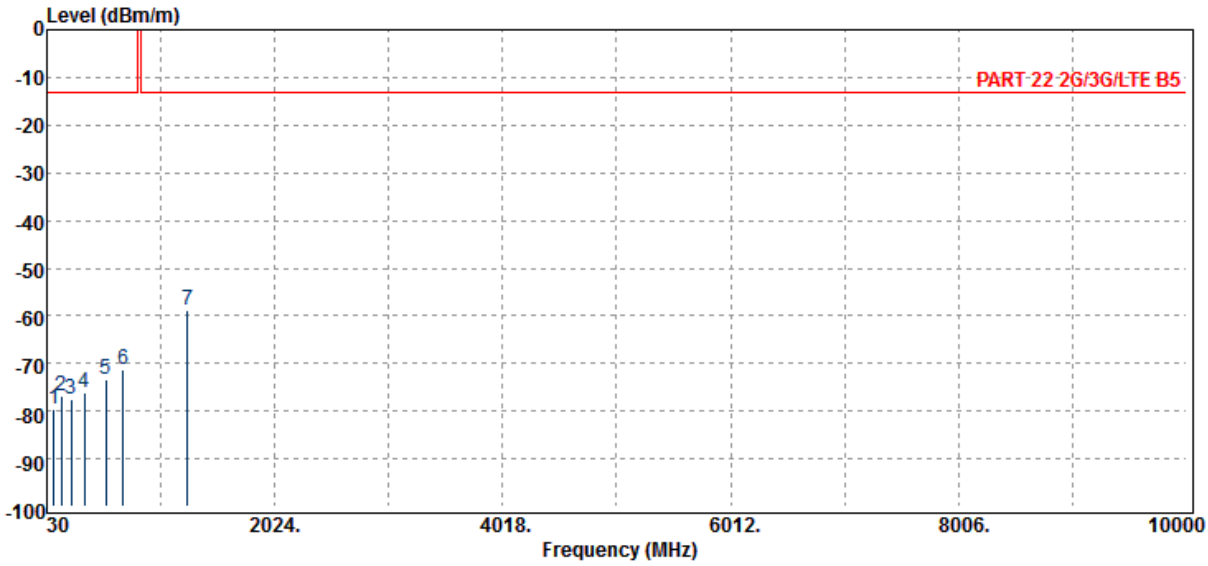
Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-79.64	-78.00	-0.62	-1.01	-13.00	-66.64
156.10	-76.67	-73.91	-1.46	-1.30	-13.00	-63.67
239.52	-77.38	-79.18	3.47	-1.67	-13.00	-64.38
357.86	-76.29	-78.07	3.83	-2.05	-13.00	-63.29
546.04	-73.41	-75.59	3.99	-1.81	-13.00	-60.41
696.39	-71.34	-72.57	3.69	-2.46	-13.00	-58.34
1256.80	-58.80	-60.45	5.40	-3.75	-13.00	-45.80

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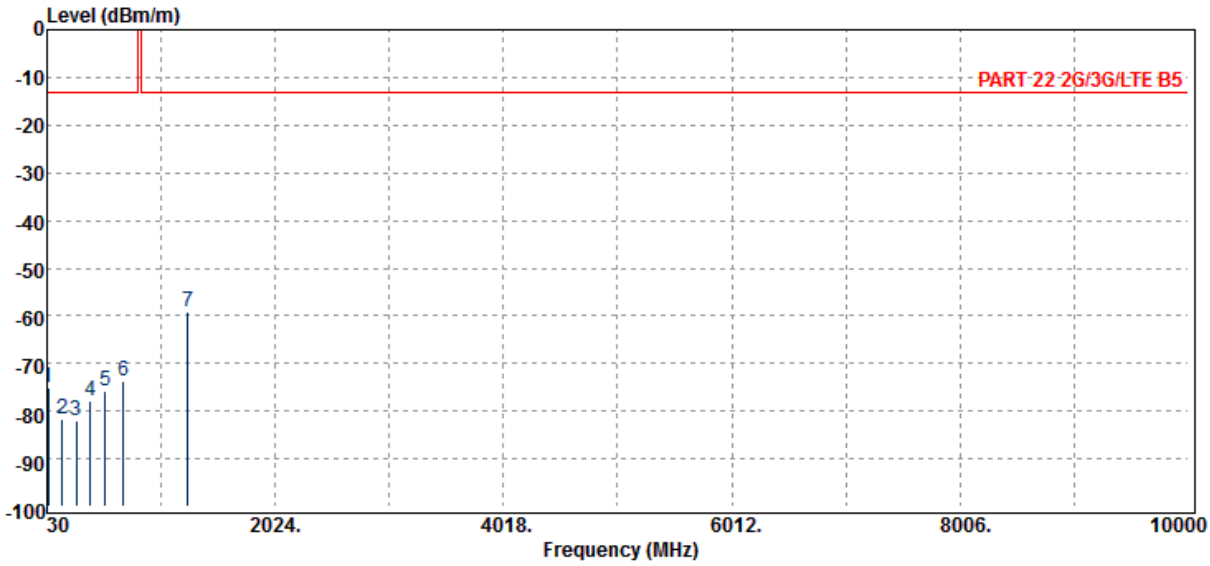
Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-75.02	-61.88	-12.47	-0.67	-13.00	-62.02
166.77	-81.74	-79.61	-0.82	-1.32	-13.00	-68.74
284.14	-81.84	-83.50	3.42	-1.76	-13.00	-68.84
408.30	-77.83	-79.37	3.68	-2.14	-13.00	-64.83
536.34	-75.84	-77.74	4.00	-2.11	-13.00	-62.84
697.36	-73.77	-75.07	3.68	-2.38	-13.00	-60.77
1256.80	-59.05	-60.71	5.40	-3.75	-13.00	-46.05

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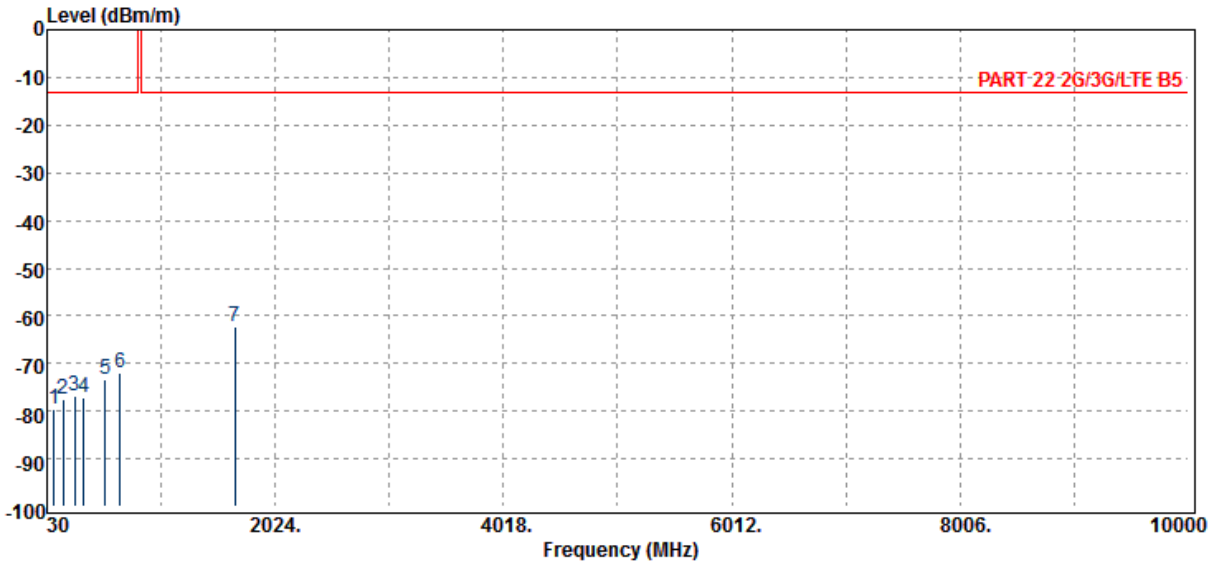
Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	-79.72	-78.09	-0.62	-1.01	-13.00	-66.72
167.74	-77.35	-75.27	-0.76	-1.32	-13.00	-64.35
272.50	-76.74	-78.49	3.48	-1.73	-13.00	-63.74
348.16	-77.15	-78.98	3.85	-2.02	-13.00	-64.15
541.19	-73.33	-75.42	3.99	-1.91	-13.00	-60.33
668.26	-72.00	-73.60	3.77	-2.17	-13.00	-59.00
1673.20	-62.16	-64.83	7.06	-4.39	-13.00	-49.16

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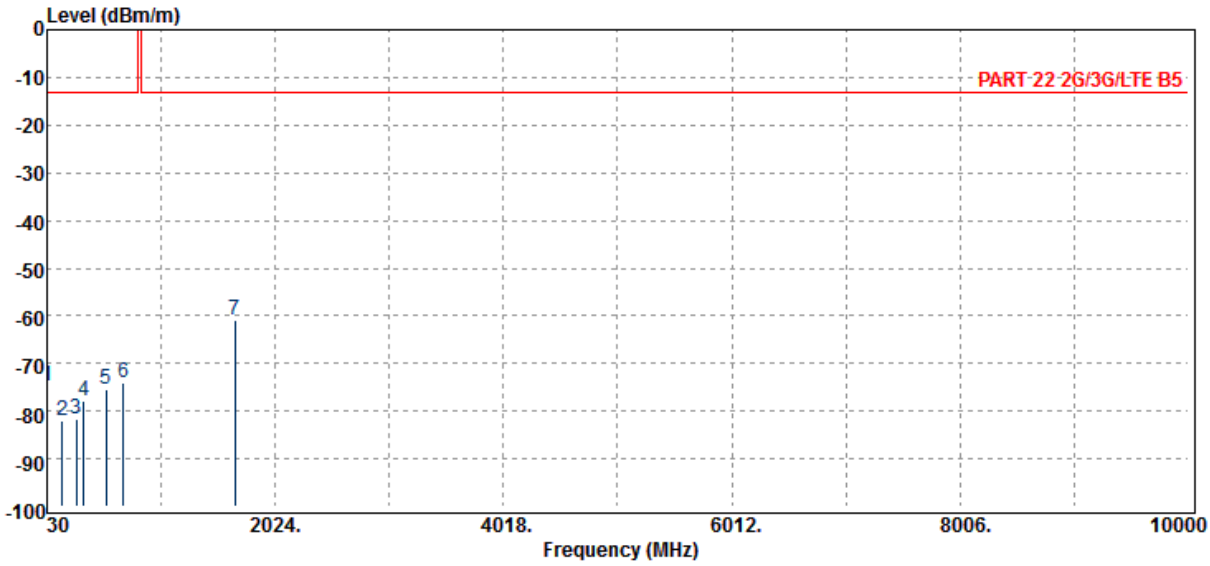
Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	-74.58	-60.84	-13.10	-0.63	-13.00	-61.58
162.89	-82.00	-79.64	-1.06	-1.31	-13.00	-69.00
288.99	-81.69	-83.33	3.42	-1.78	-13.00	-68.69
348.16	-77.88	-79.71	3.85	-2.02	-13.00	-64.88
546.04	-75.52	-77.70	3.99	-1.81	-13.00	-62.52
697.36	-74.21	-75.51	3.68	-2.38	-13.00	-61.21
1673.20	-60.86	-63.53	7.06	-4.39	-13.00	-47.86

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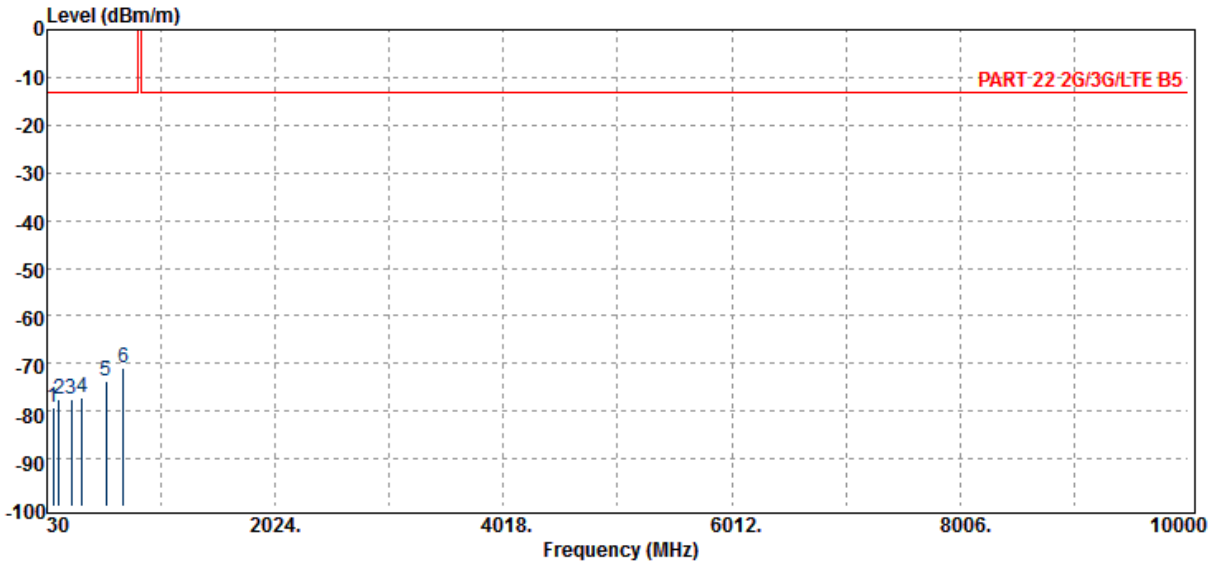
Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-79.17	-76.81	-1.37	-0.99	-13.00	-66.17
134.76	-77.36	-74.01	-2.12	-1.23	-13.00	-64.36
245.34	-77.52	-79.33	3.51	-1.69	-13.00	-64.52
338.46	-77.14	-78.97	3.80	-1.97	-13.00	-64.14
546.04	-73.87	-76.05	3.99	-1.81	-13.00	-60.87
696.39	-70.96	-72.19	3.69	-2.46	-13.00	-57.96

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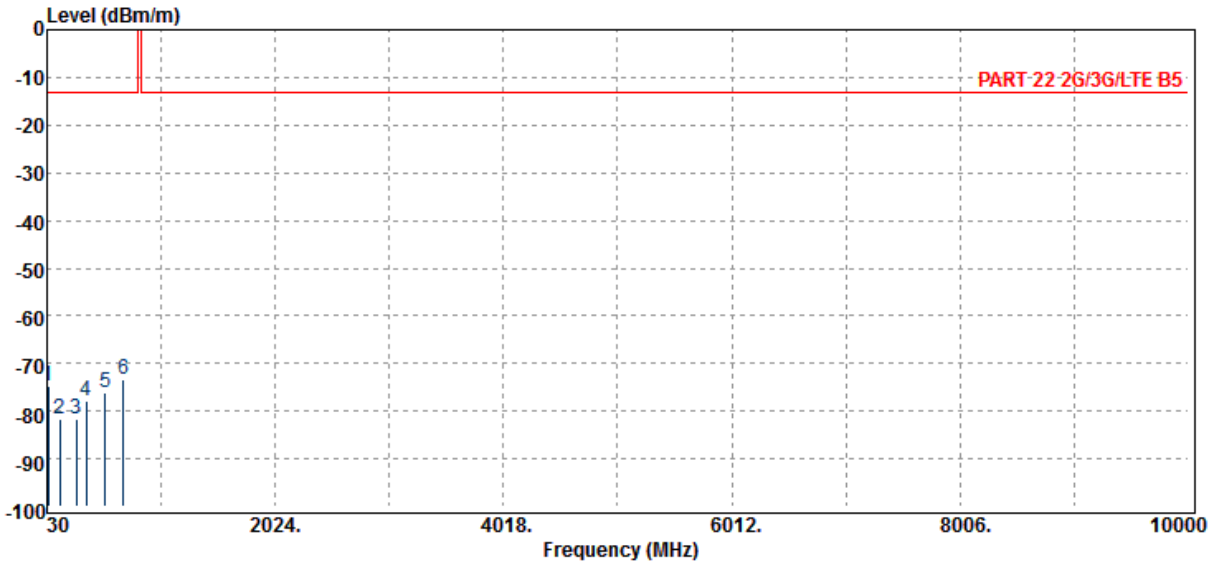
Operation Band	:WCDMA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
42.61	-74.79	-61.76	-12.35	-0.68	-13.00	-61.79
143.49	-81.65	-78.24	-2.13	-1.28	-13.00	-68.65
287.05	-81.83	-83.48	3.42	-1.77	-13.00	-68.83
371.44	-77.75	-79.49	3.79	-2.05	-13.00	-64.75
542.16	-76.19	-78.31	3.99	-1.87	-13.00	-63.19
700.27	-73.42	-74.94	3.67	-2.16	-13.00	-60.42

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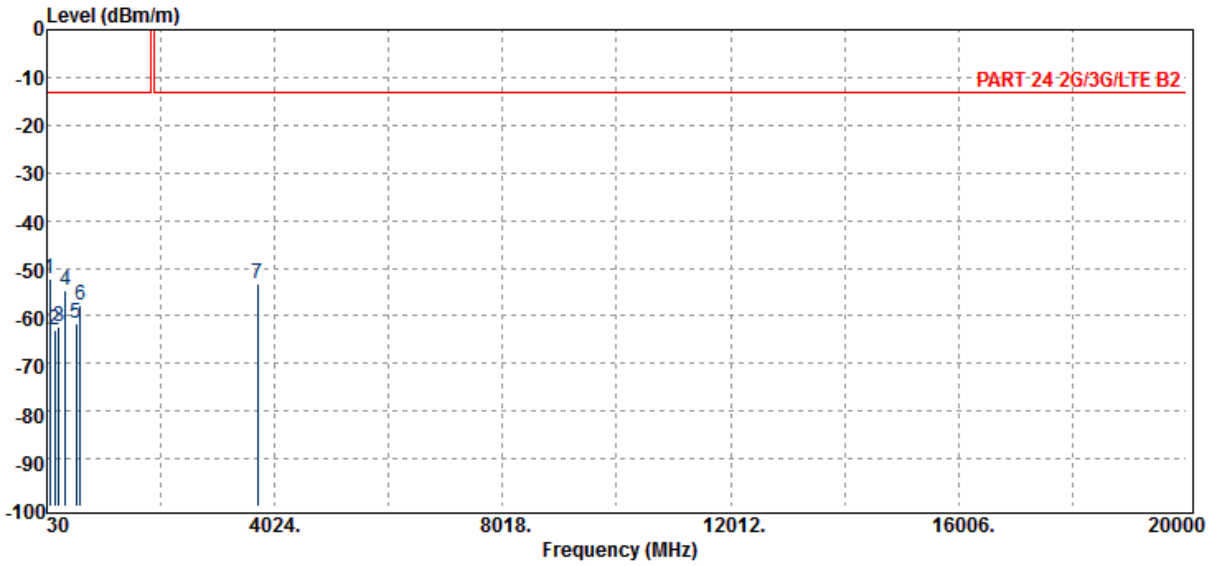
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-52.09	-49.39	-1.73	-0.98	-13.00	-39.09
160.95	-63.02	-60.53	-1.18	-1.30	-13.00	-50.02
246.31	-62.23	-64.05	3.51	-1.69	-13.00	-49.23
353.01	-54.54	-56.35	3.85	-2.03	-13.00	-41.54
548.95	-61.48	-63.49	3.98	-1.97	-13.00	-48.48
621.70	-57.66	-58.63	3.67	-2.70	-13.00	-44.66
3720.00	-53.37	-59.08	12.58	-6.88	-13.00	-40.37

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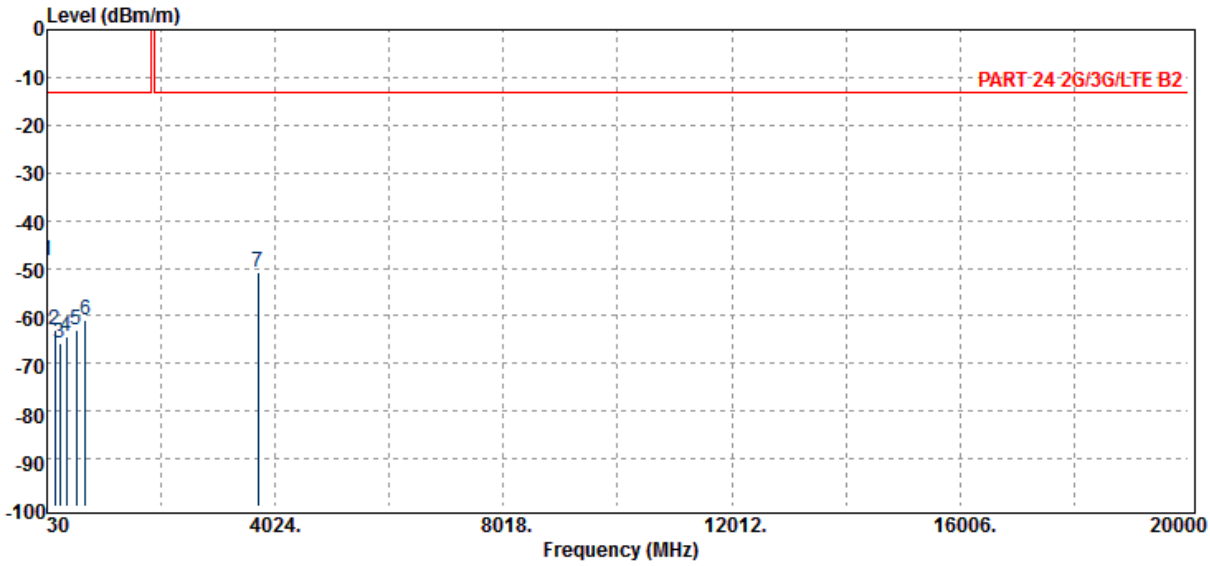
Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1860 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.28	-33.12	-14.58	-0.58	-13.00	-35.28
160.95	-62.90	-60.41	-1.18	-1.30	-13.00	-49.90
251.16	-65.68	-67.53	3.55	-1.70	-13.00	-52.68
374.35	-64.24	-65.98	3.78	-2.04	-13.00	-51.24
542.16	-62.99	-65.12	3.99	-1.87	-13.00	-49.99
697.36	-60.99	-62.29	3.68	-2.38	-13.00	-47.99
3720.00	-50.79	-56.49	12.58	-6.88	-13.00	-37.79

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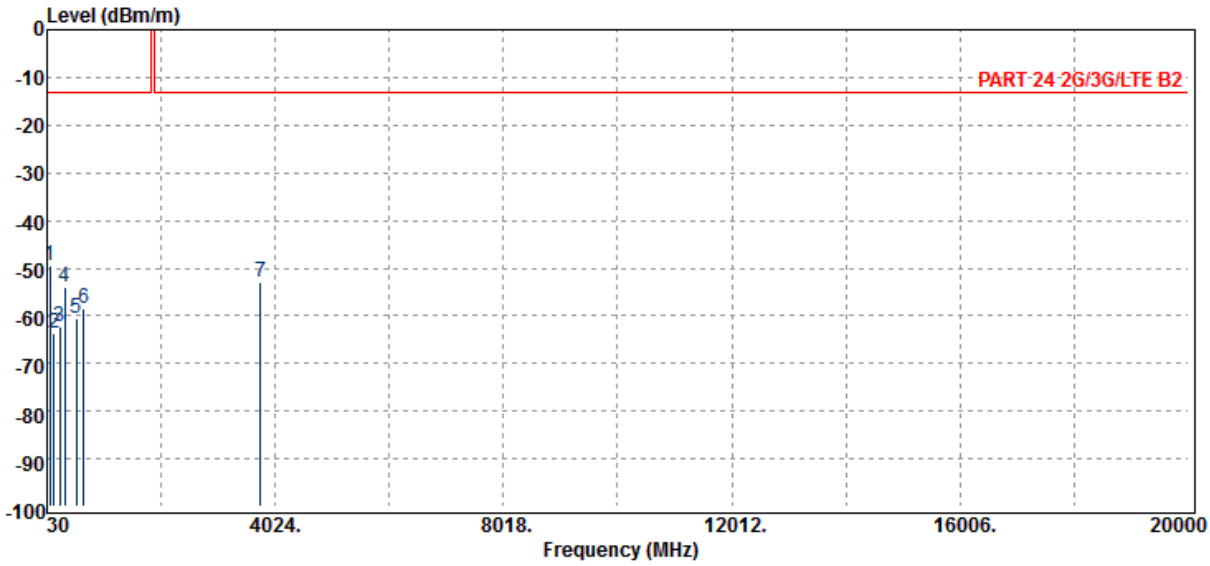
Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-49.53	-47.17	-1.37	-0.99	-13.00	-36.53
149.31	-63.76	-60.63	-1.84	-1.29	-13.00	-50.76
255.04	-62.28	-64.18	3.60	-1.70	-13.00	-49.28
342.34	-54.09	-55.92	3.82	-1.99	-13.00	-41.09
539.25	-60.72	-62.72	4.00	-1.99	-13.00	-47.72
673.11	-58.64	-59.88	3.76	-2.52	-13.00	-45.64
3760.00	-53.06	-58.78	12.61	-6.89	-13.00	-40.06

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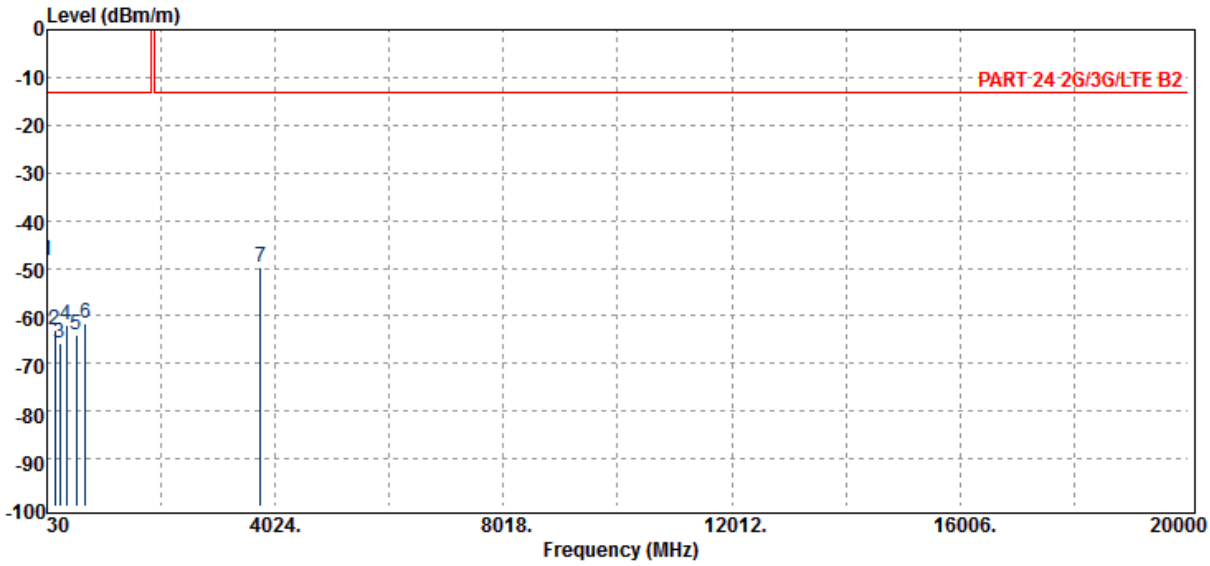
Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.42	-33.26	-14.58	-0.58	-13.00	-35.42
162.89	-62.90	-60.54	-1.06	-1.31	-13.00	-49.90
248.25	-65.63	-67.46	3.52	-1.69	-13.00	-52.63
369.50	-61.88	-63.62	3.80	-2.06	-13.00	-48.88
539.25	-64.06	-66.06	4.00	-1.99	-13.00	-51.06
699.30	-61.71	-63.16	3.68	-2.24	-13.00	-48.71
3760.00	-49.84	-55.57	12.61	-6.89	-13.00	-36.84

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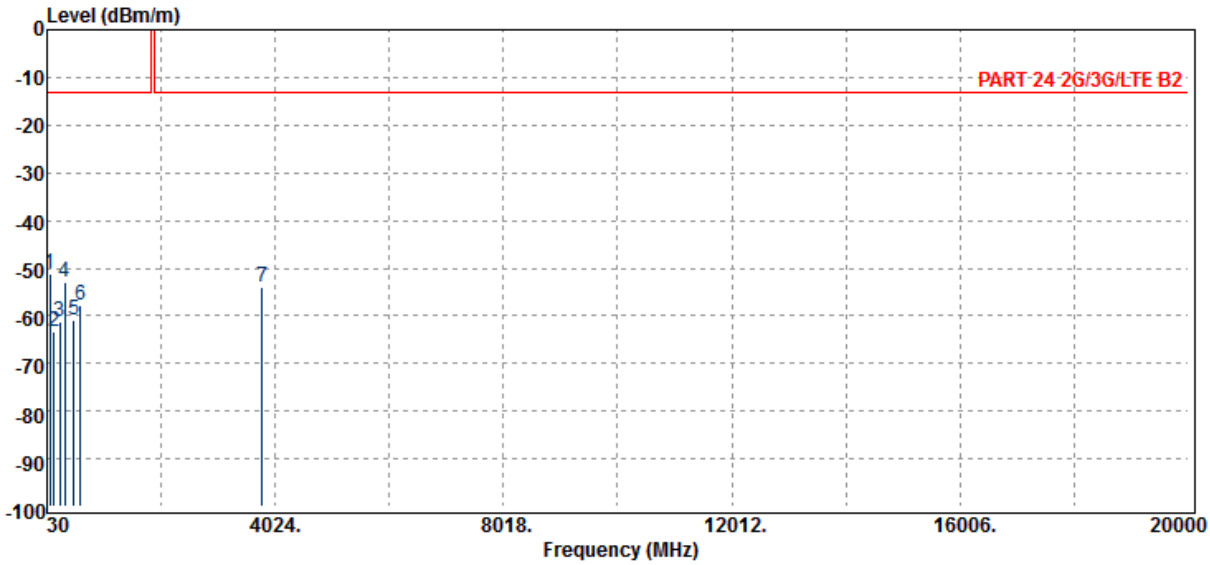
Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1900 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.17	-48.81	-1.37	-0.99	-13.00	-38.17
146.40	-63.22	-59.95	-1.98	-1.29	-13.00	-50.22
251.16	-61.13	-62.99	3.55	-1.70	-13.00	-48.13
347.19	-53.01	-54.84	3.84	-2.02	-13.00	-40.01
502.39	-60.95	-62.75	4.05	-2.26	-13.00	-47.95
613.94	-57.84	-59.02	3.62	-2.44	-13.00	-44.84
3800.00	-53.89	-59.57	12.65	-6.96	-13.00	-40.89

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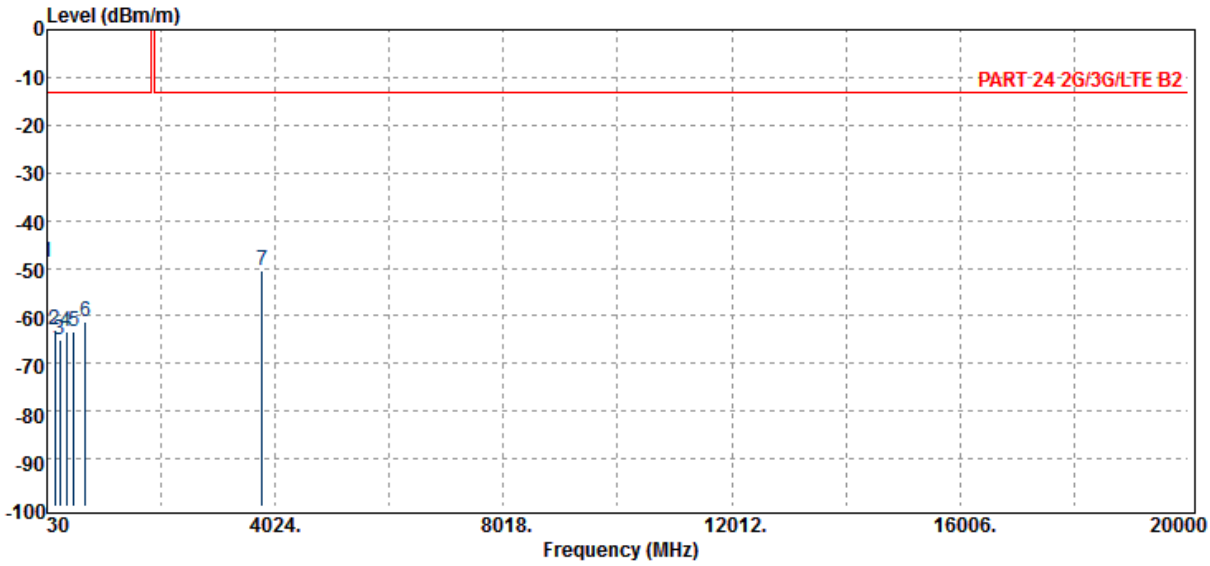
Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1900 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.63	-33.47	-14.58	-0.58	-13.00	-35.63
162.89	-62.89	-60.53	-1.06	-1.31	-13.00	-49.89
248.25	-65.14	-66.97	3.52	-1.69	-13.00	-52.14
374.35	-63.46	-65.21	3.78	-2.04	-13.00	-50.46
493.66	-63.48	-65.44	3.99	-2.04	-13.00	-50.48
700.27	-61.10	-62.61	3.67	-2.16	-13.00	-48.10
3800.00	-50.62	-56.30	12.65	-6.96	-13.00	-37.62

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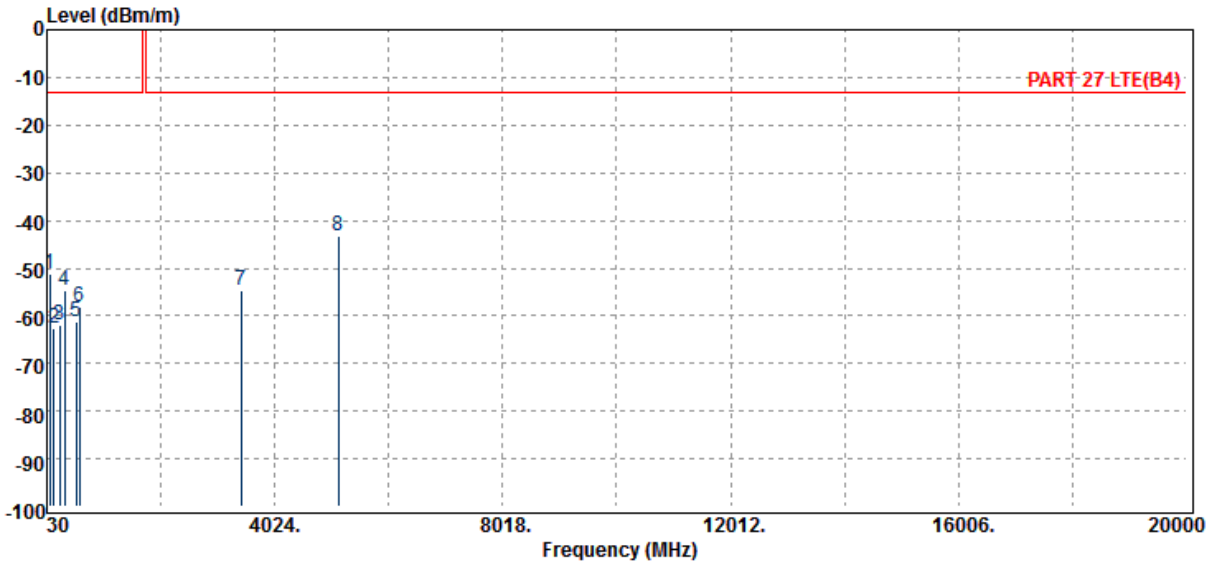
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.15	-48.79	-1.37	-0.99	-13.00	-38.15
146.40	-62.56	-59.29	-1.98	-1.29	-13.00	-49.56
251.16	-61.95	-63.80	3.55	-1.70	-13.00	-48.95
337.49	-54.77	-56.61	3.80	-1.96	-13.00	-41.77
541.19	-61.29	-63.37	3.99	-1.91	-13.00	-48.29
595.51	-58.17	-59.56	3.57	-2.19	-13.00	-45.17
3430.00	-54.71	-60.41	12.24	-6.54	-13.00	-41.71
5145.00	-43.31	-47.87	12.68	-8.12	-13.00	-30.31

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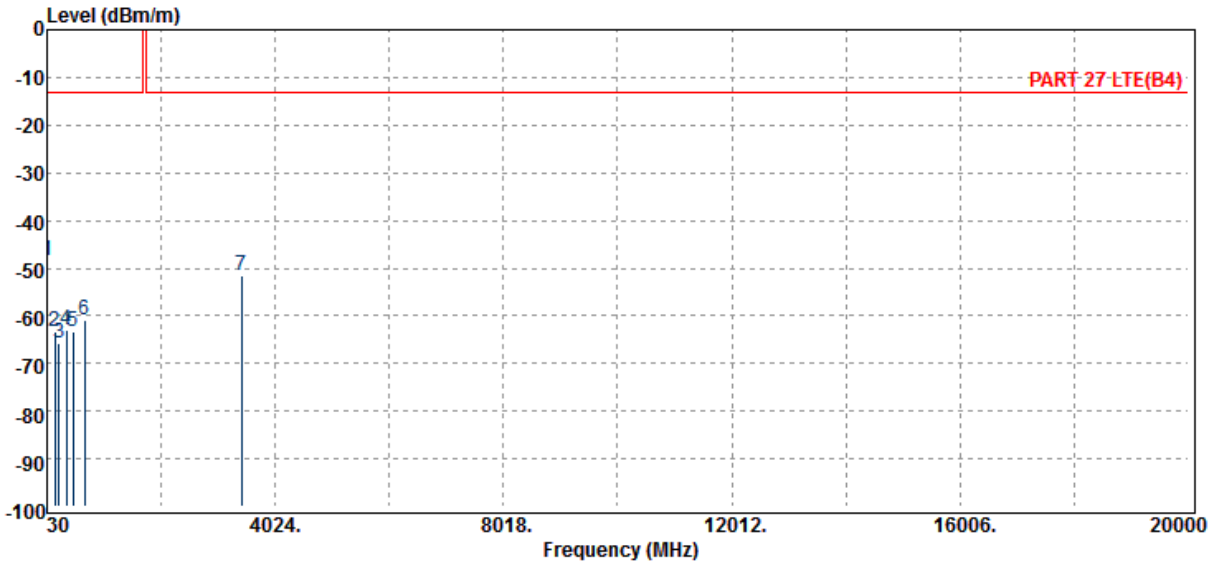
Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.45	-33.29	-14.58	-0.58	-13.00	-35.45
160.95	-63.16	-60.67	-1.18	-1.30	-13.00	-50.16
246.31	-65.67	-67.49	3.51	-1.69	-13.00	-52.67
369.50	-62.94	-64.68	3.80	-2.06	-13.00	-49.94
483.96	-63.33	-65.37	3.89	-1.85	-13.00	-50.33
694.45	-60.81	-61.89	3.69	-2.61	-13.00	-47.81
3430.00	-51.70	-57.40	12.24	-6.54	-13.00	-38.70

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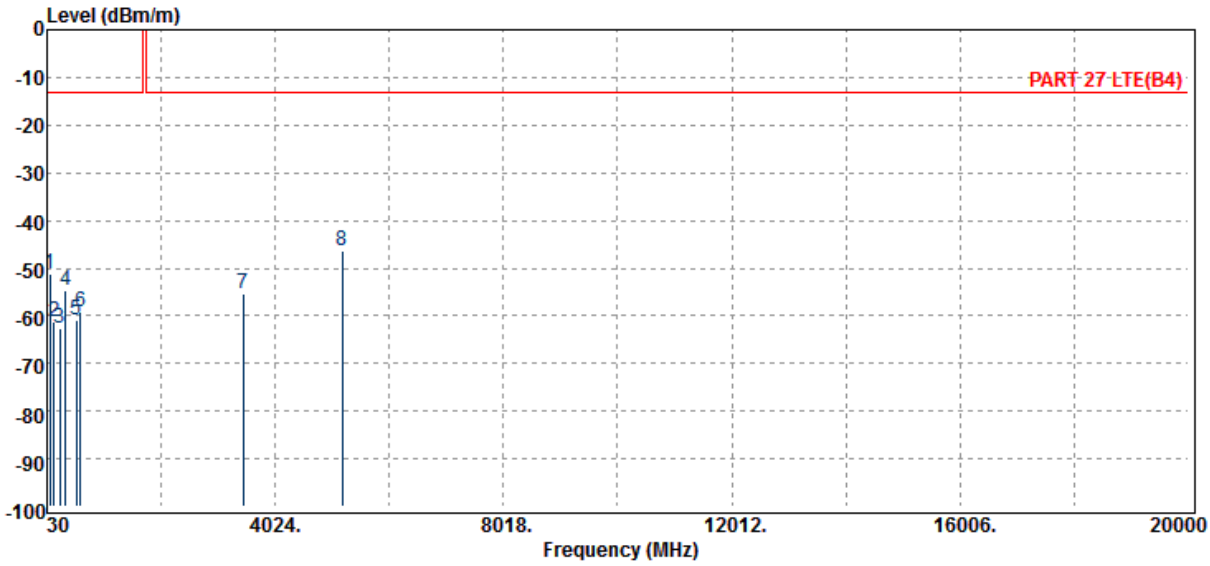
Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-51.16	-48.45	-1.73	-0.98	-13.00	-38.16
146.40	-61.27	-58.00	-1.98	-1.29	-13.00	-48.27
251.16	-62.63	-64.49	3.55	-1.70	-13.00	-49.63
352.04	-54.84	-56.66	3.85	-2.03	-13.00	-41.84
536.34	-60.86	-62.76	4.00	-2.11	-13.00	-47.86
609.09	-59.21	-60.53	3.59	-2.28	-13.00	-46.21
3465.00	-55.42	-61.18	12.32	-6.56	-13.00	-42.42
5197.50	-46.29	-50.82	12.74	-8.21	-13.00	-33.29

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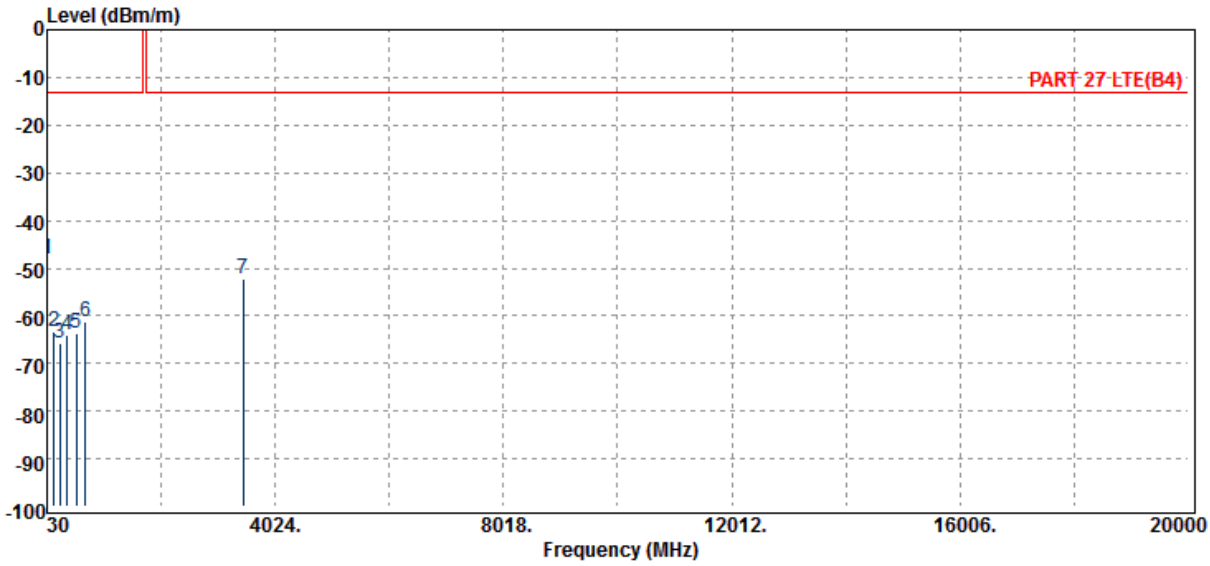
Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.11	-32.95	-14.58	-0.58	-13.00	-35.11
159.01	-63.18	-60.58	-1.30	-1.30	-13.00	-50.18
248.25	-65.88	-67.71	3.52	-1.69	-13.00	-52.88
377.26	-63.94	-65.69	3.78	-2.03	-13.00	-50.94
539.25	-63.70	-65.71	4.00	-1.99	-13.00	-50.70
700.27	-61.41	-62.92	3.67	-2.16	-13.00	-48.41
3465.00	-52.25	-58.01	12.32	-6.56	-13.00	-39.25

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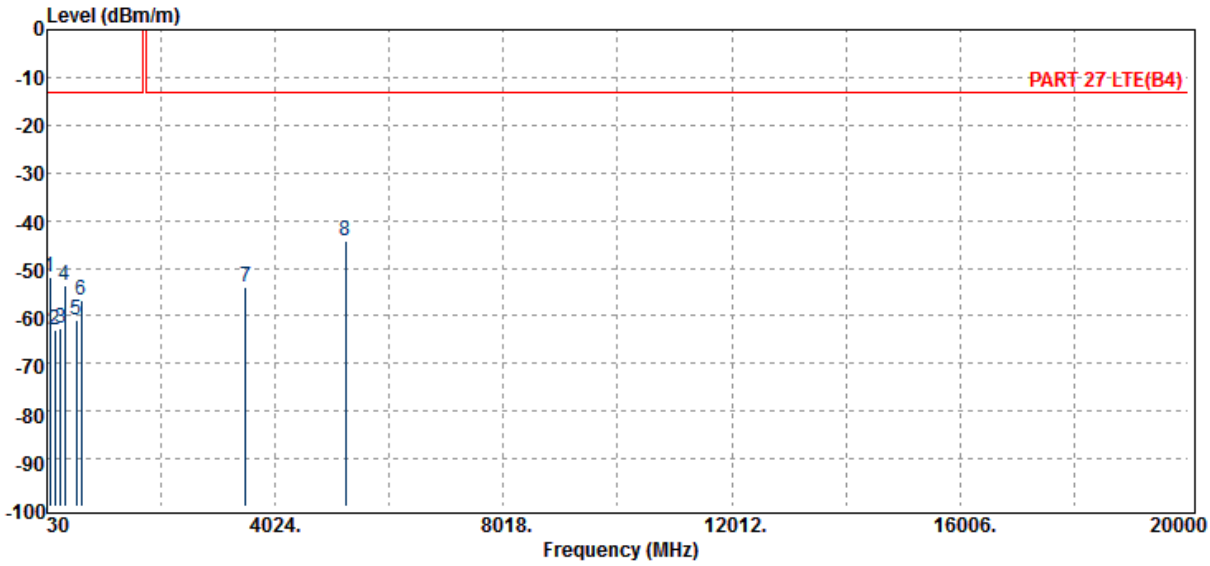
Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1750 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-52.02	-49.66	-1.37	-0.99	-13.00	-39.02
172.59	-63.01	-61.47	-0.20	-1.34	-13.00	-50.01
270.56	-62.54	-64.31	3.50	-1.72	-13.00	-49.54
335.55	-53.54	-55.38	3.79	-1.95	-13.00	-40.54
541.19	-60.84	-62.92	3.99	-1.91	-13.00	-47.84
633.34	-56.92	-58.03	3.74	-2.63	-13.00	-43.92
3500.00	-53.94	-59.70	12.40	-6.63	-13.00	-40.94
5250.00	-44.33	-48.95	12.81	-8.18	-13.00	-31.33

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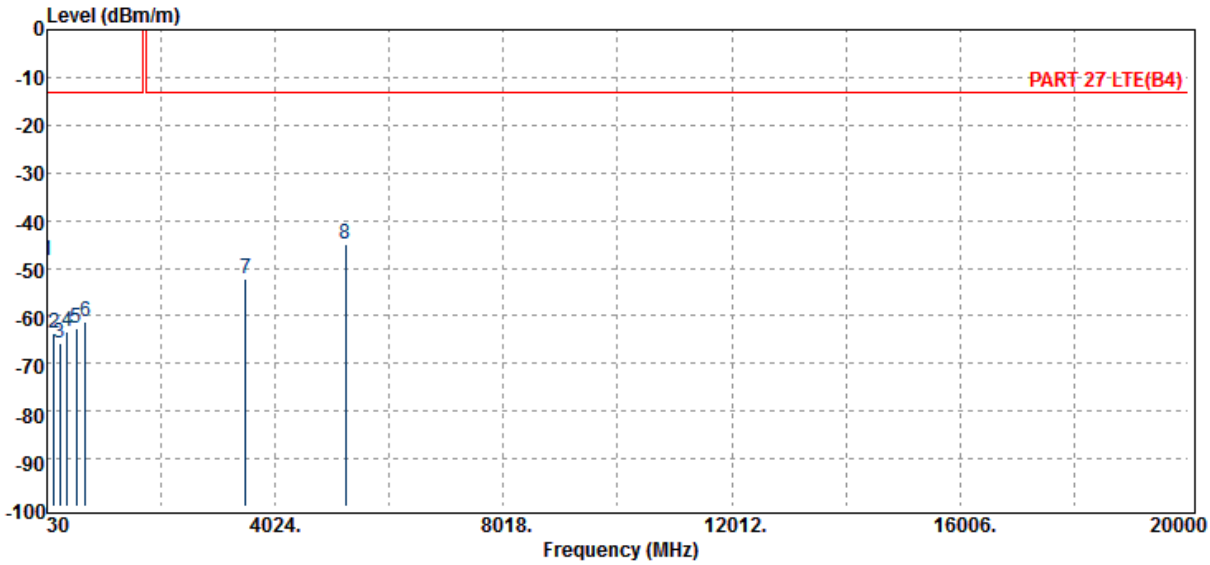
Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1750 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.34	-33.18	-14.58	-0.58	-13.00	-35.34
159.01	-63.82	-61.22	-1.30	-1.30	-13.00	-50.82
251.16	-65.71	-67.56	3.55	-1.70	-13.00	-52.71
382.11	-63.30	-65.04	3.76	-2.02	-13.00	-50.30
539.25	-62.77	-64.78	4.00	-1.99	-13.00	-49.77
697.36	-61.12	-62.42	3.68	-2.38	-13.00	-48.12
3500.00	-52.14	-57.91	12.40	-6.63	-13.00	-39.14
5250.00	-45.07	-49.69	12.81	-8.18	-13.00	-32.07

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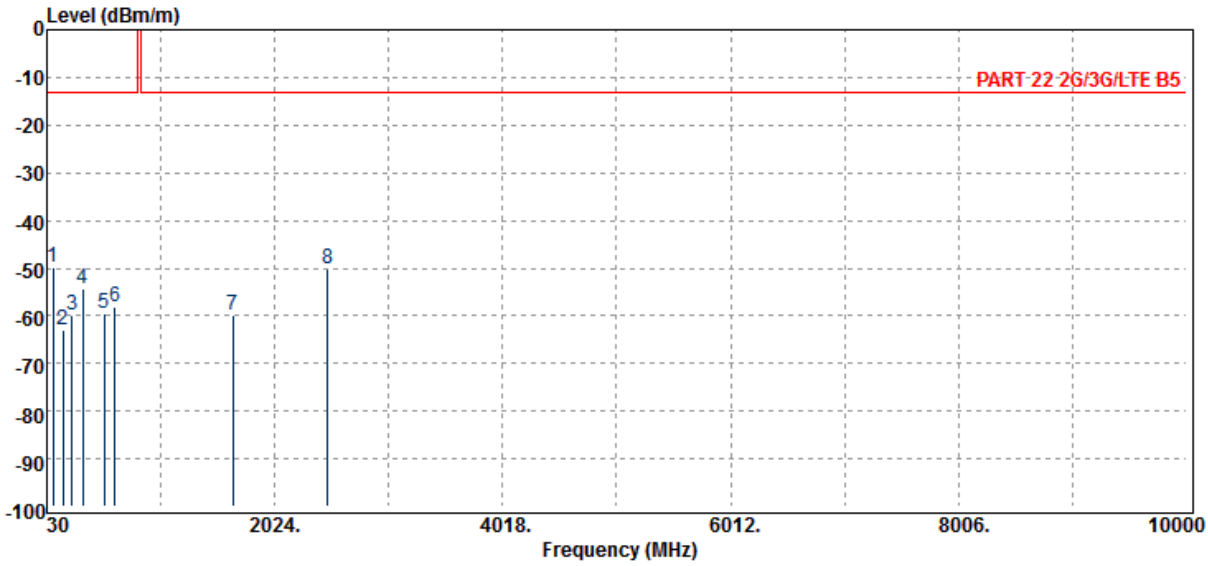
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-49.80	-47.44	-1.37	-0.99	-13.00	-36.80
168.71	-63.07	-61.05	-0.70	-1.33	-13.00	-50.07
251.16	-60.01	-61.86	3.55	-1.70	-13.00	-47.01
340.40	-54.39	-56.22	3.81	-1.98	-13.00	-41.39
534.40	-59.62	-61.43	4.00	-2.19	-13.00	-46.62
626.55	-58.11	-59.03	3.70	-2.78	-13.00	-45.11
1658.00	-60.01	-64.80	9.16	-4.37	-13.00	-47.01
2487.00	-50.02	-55.00	10.49	-5.51	-13.00	-37.02

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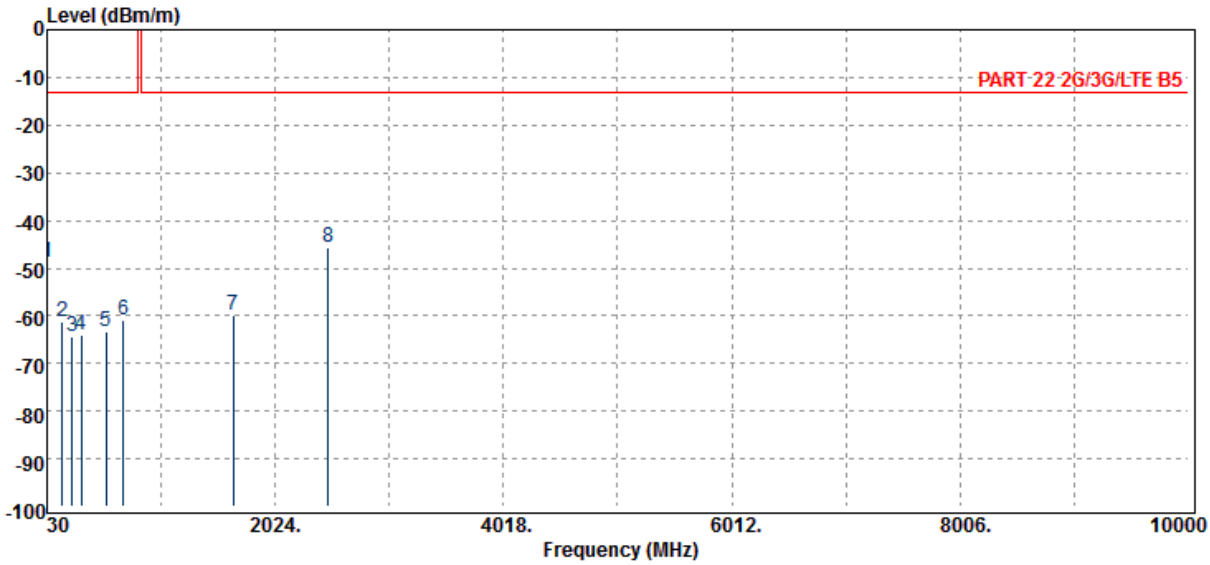
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.88	-33.72	-14.58	-0.58	-13.00	-35.88
162.89	-61.14	-58.78	-1.06	-1.31	-13.00	-48.14
248.25	-64.22	-66.05	3.52	-1.69	-13.00	-51.22
332.64	-63.92	-65.77	3.78	-1.93	-13.00	-50.92
546.04	-63.24	-65.42	3.99	-1.81	-13.00	-50.24
699.30	-60.99	-62.43	3.68	-2.24	-13.00	-47.99
1658.00	-59.85	-64.64	9.16	-4.37	-13.00	-46.85
2487.00	-45.69	-50.68	10.49	-5.51	-13.00	-32.69

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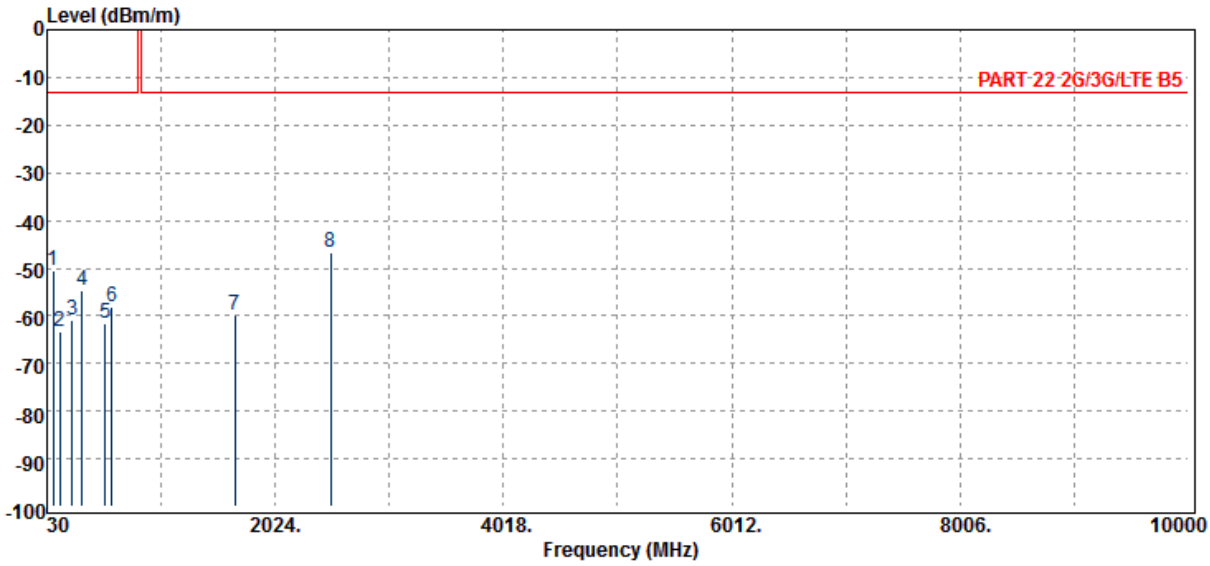
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-50.52	-48.16	-1.37	-0.99	-13.00	-37.52
144.46	-63.29	-59.92	-2.08	-1.28	-13.00	-50.29
251.16	-60.75	-62.60	3.55	-1.70	-13.00	-47.75
338.46	-54.56	-56.40	3.80	-1.97	-13.00	-41.56
539.25	-61.48	-63.48	4.00	-1.99	-13.00	-48.48
594.54	-58.05	-59.44	3.58	-2.19	-13.00	-45.05
1673.00	-59.94	-64.75	9.21	-4.39	-13.00	-46.94
2509.50	-46.55	-51.53	10.51	-5.53	-13.00	-33.55

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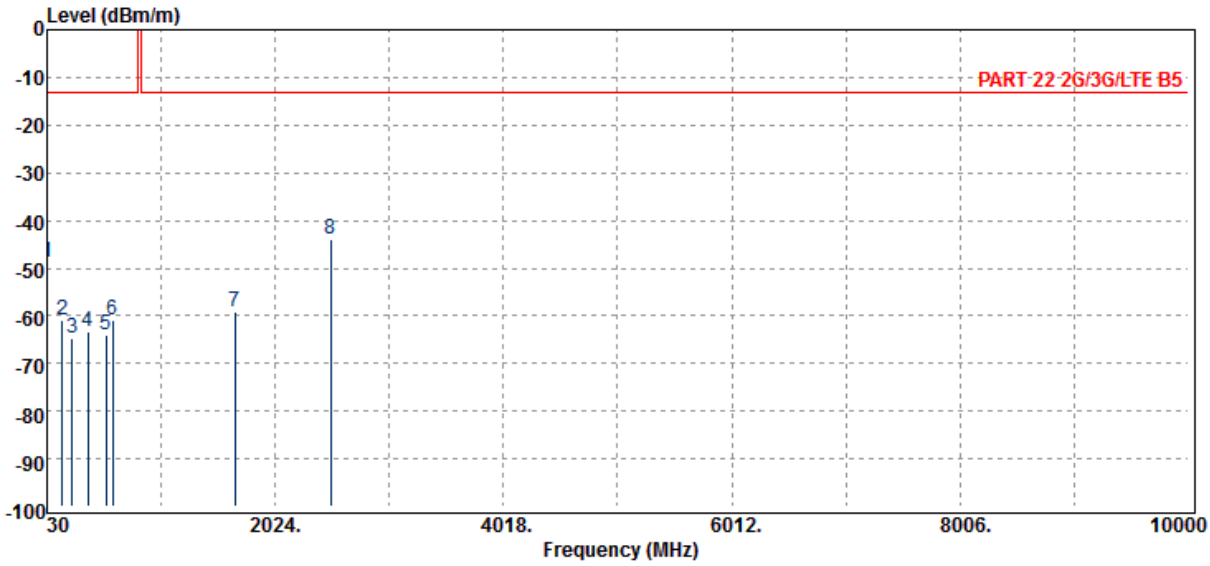
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.82	-33.66	-14.58	-0.58	-13.00	-35.82
162.89	-60.82	-58.45	-1.06	-1.31	-13.00	-47.82
251.16	-64.56	-66.42	3.55	-1.70	-13.00	-51.56
385.99	-63.31	-65.05	3.75	-2.01	-13.00	-50.31
547.01	-63.99	-66.11	3.98	-1.86	-13.00	-50.99
600.36	-60.92	-62.30	3.54	-2.16	-13.00	-47.92
1673.00	-59.01	-63.83	9.21	-4.39	-13.00	-46.01
2509.50	-43.91	-48.89	10.51	-5.53	-13.00	-30.91

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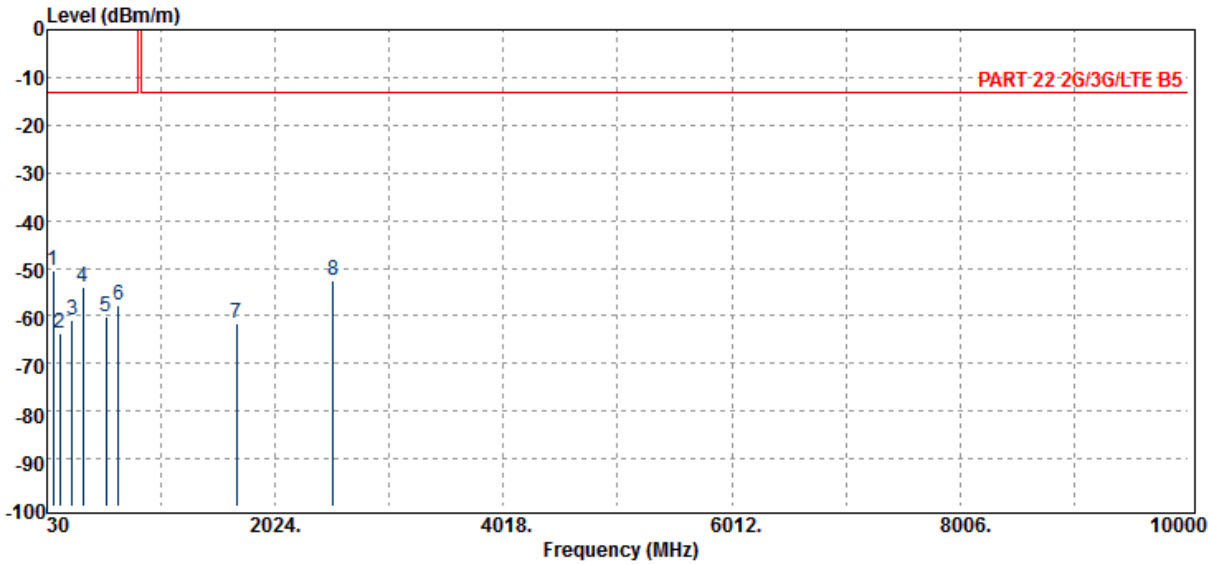
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-50.41	-48.05	-1.37	-0.99	-13.00	-37.41
144.46	-63.53	-60.17	-2.08	-1.28	-13.00	-50.53
251.16	-60.76	-62.62	3.55	-1.70	-13.00	-47.76
340.40	-54.15	-55.98	3.81	-1.98	-13.00	-41.15
546.04	-60.36	-62.54	3.99	-1.81	-13.00	-47.36
655.65	-57.94	-59.61	3.81	-2.15	-13.00	-44.94
1688.00	-61.50	-64.19	7.11	-4.42	-13.00	-48.50
2532.00	-52.59	-55.44	8.40	-5.55	-13.00	-39.59

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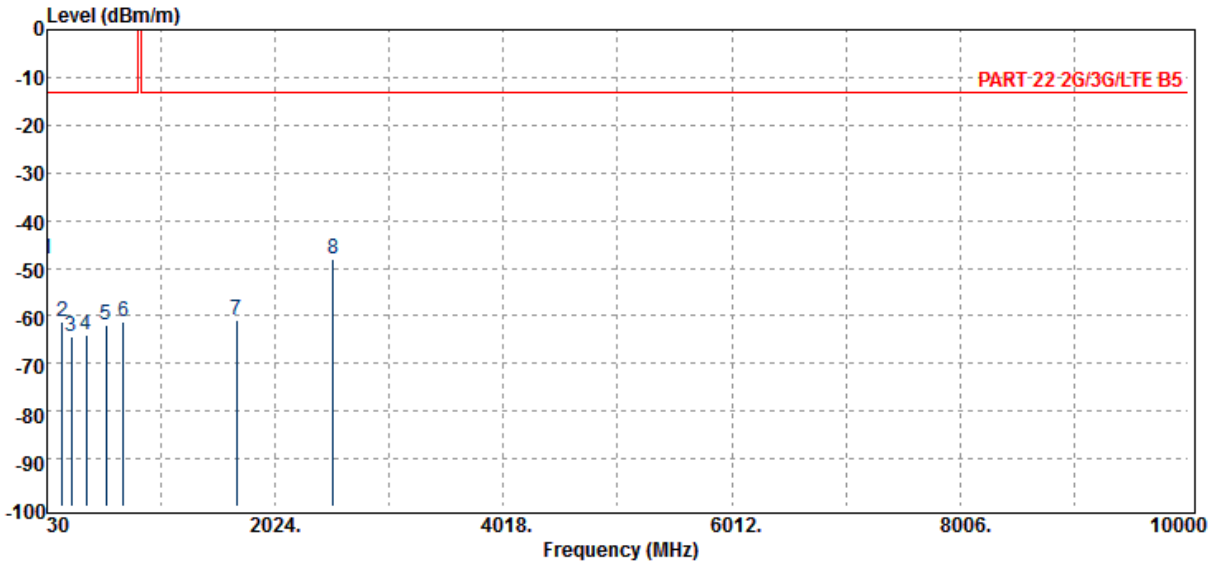
Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.16	-33.00	-14.58	-0.58	-13.00	-35.16
162.89	-61.16	-58.79	-1.06	-1.31	-13.00	-48.16
246.31	-64.24	-66.06	3.51	-1.69	-13.00	-51.24
372.41	-64.14	-65.88	3.79	-2.05	-13.00	-51.14
548.95	-62.10	-64.11	3.98	-1.97	-13.00	-49.10
699.30	-61.25	-62.69	3.68	-2.24	-13.00	-48.25
1688.00	-60.96	-63.65	7.11	-4.42	-13.00	-47.96
2532.00	-47.99	-50.84	8.40	-5.55	-13.00	-34.99

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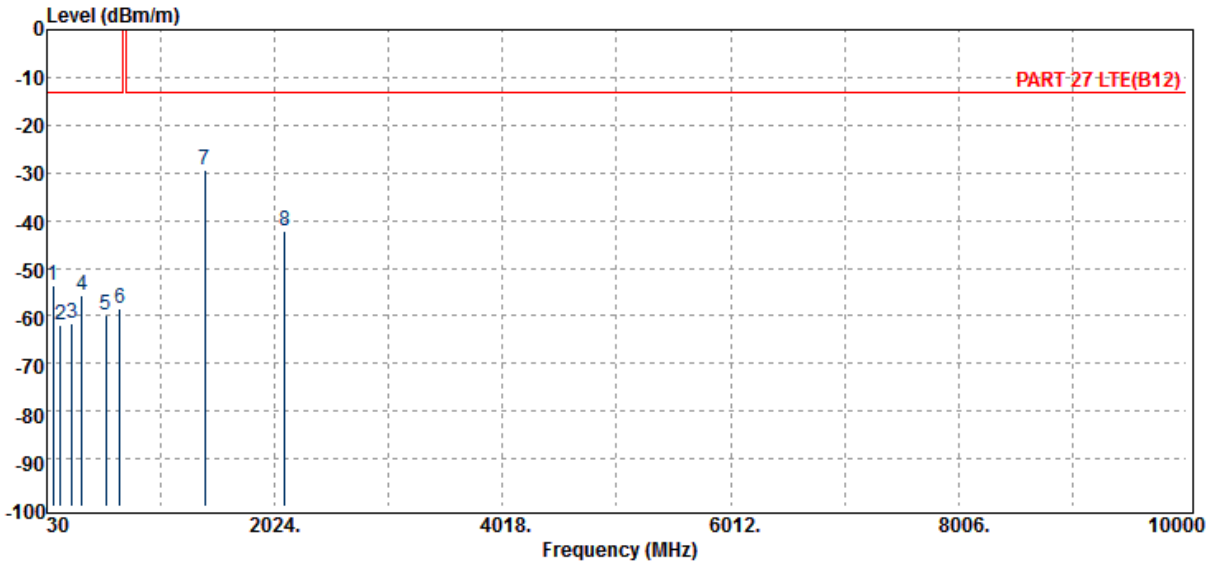
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:704 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-53.58	-50.87	-1.73	-0.98	-13.00	-40.58
146.40	-61.94	-58.67	-1.98	-1.29	-13.00	-48.94
251.16	-61.46	-63.31	3.55	-1.70	-13.00	-48.46
333.61	-55.56	-57.41	3.78	-1.93	-13.00	-42.56
548.95	-59.84	-61.86	3.98	-1.97	-13.00	-46.84
668.26	-58.35	-59.95	3.77	-2.17	-13.00	-45.35
1408.00	-29.32	-33.55	8.23	-3.99	-13.00	-16.32
2112.00	-42.05	-47.31	10.27	-5.01	-13.00	-29.05

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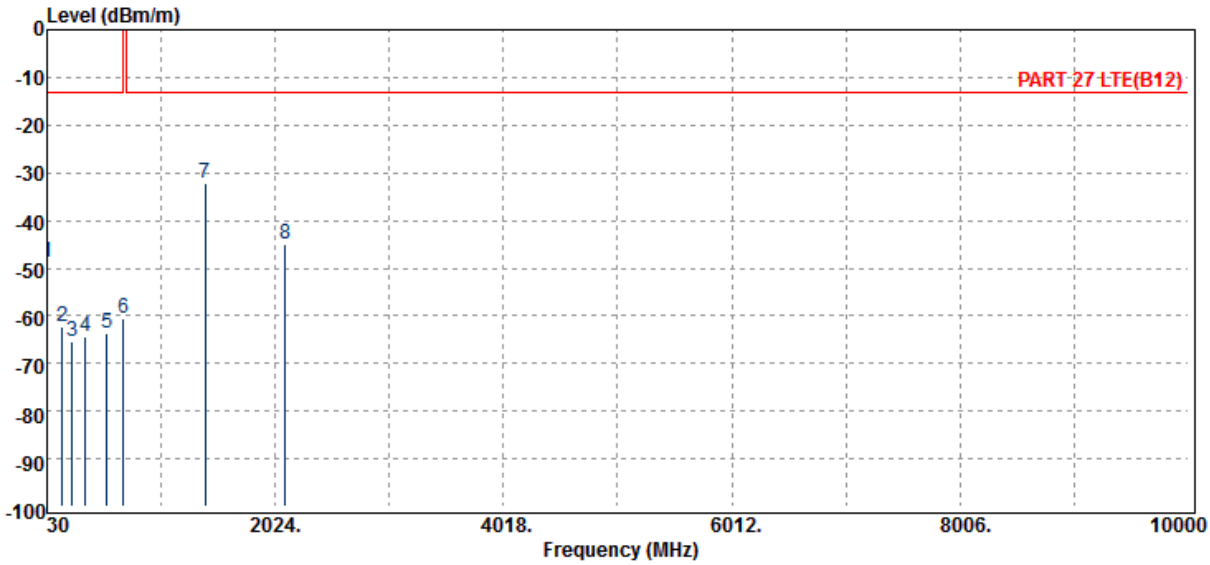
Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:704 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.73	-33.57	-14.58	-0.58	-13.00	-35.73
162.89	-62.21	-59.84	-1.06	-1.31	-13.00	-49.21
248.25	-65.29	-67.12	3.52	-1.69	-13.00	-52.29
367.56	-64.48	-66.21	3.80	-2.06	-13.00	-51.48
549.92	-63.77	-65.73	3.98	-2.02	-13.00	-50.77
699.30	-60.63	-62.08	3.68	-2.24	34.77	-95.40
1408.00	-32.02	-36.25	8.23	-3.99	-13.00	-19.02
2112.00	-44.85	-50.11	10.27	-5.01	-13.00	-31.85

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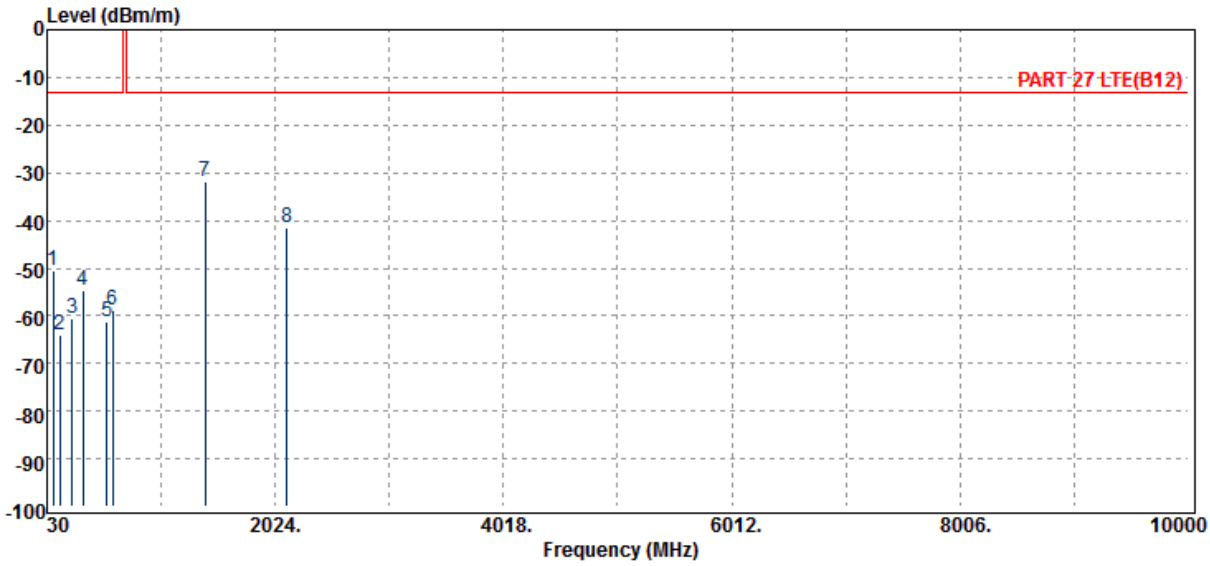
Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-50.43	-47.72	-1.73	-0.98	-13.00	-37.43
141.55	-64.00	-60.51	-2.22	-1.27	-13.00	-51.00
251.16	-60.45	-62.30	3.55	-1.70	-13.00	-47.45
340.40	-54.59	-56.42	3.81	-1.98	-13.00	-41.59
549.92	-61.20	-63.15	3.98	-2.02	-13.00	-48.20
602.30	-58.75	-60.15	3.55	-2.15	-13.00	-45.75
1415.00	-31.81	-36.06	8.25	-4.01	-13.00	-18.81
2122.50	-41.67	-46.93	10.28	-5.02	-13.00	-28.67

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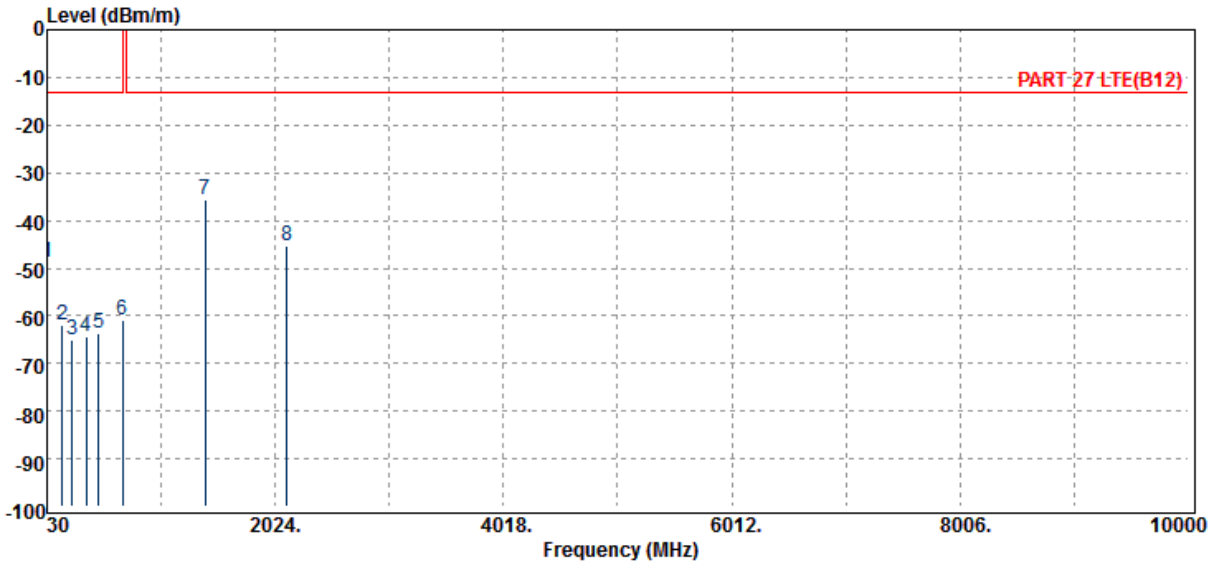
Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.79	-33.63	-14.58	-0.58	-13.00	-35.79
162.89	-61.96	-59.60	-1.06	-1.31	-13.00	-48.96
248.25	-65.15	-66.98	3.52	-1.69	-13.00	-52.15
371.44	-64.30	-66.04	3.79	-2.05	-13.00	-51.30
478.14	-63.81	-65.57	3.83	-2.08	-13.00	-50.81
691.54	-60.95	-61.82	3.70	-2.83	-13.00	-47.95
1415.00	-35.53	-39.78	8.25	-4.01	-13.00	-22.53
2122.50	-45.34	-50.60	10.28	-5.02	-13.00	-32.34

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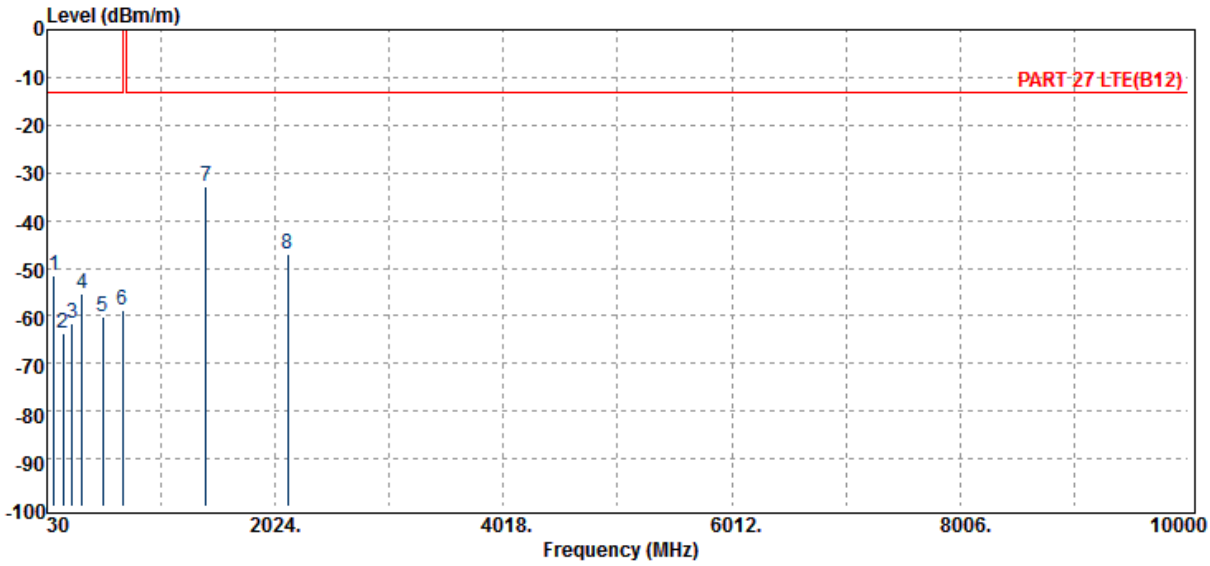
Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:711 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
88.20	-51.60	-49.74	-0.85	-1.00	-13.00	-38.60
170.65	-63.67	-61.82	-0.51	-1.33	-13.00	-50.67
251.16	-61.63	-63.49	3.55	-1.70	-13.00	-48.63
335.55	-55.34	-57.18	3.79	-1.95	-13.00	-42.34
517.91	-60.31	-61.85	4.03	-2.49	-13.00	-47.31
689.60	-58.84	-59.57	3.71	-2.98	-13.00	-45.84
1422.00	-32.99	-37.26	8.28	-4.02	-13.00	-19.99
2133.00	-47.01	-52.27	10.29	-5.03	-13.00	-34.01

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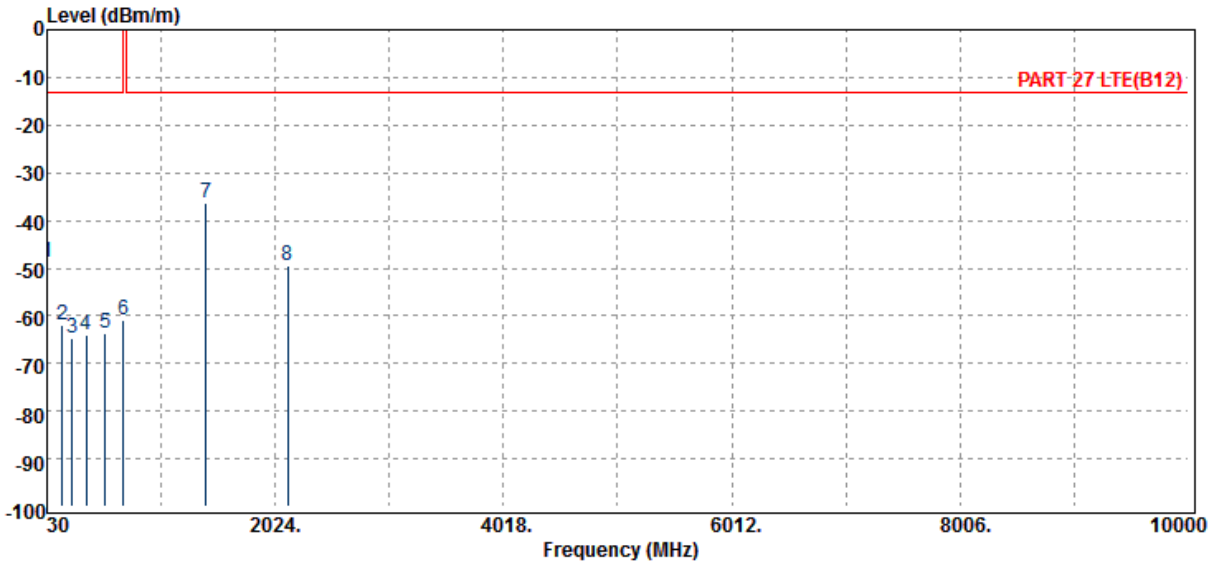
Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:711 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.82	-33.66	-14.58	-0.58	-13.00	-35.82
162.89	-61.87	-59.50	-1.06	-1.31	-13.00	-48.87
248.25	-64.70	-66.53	3.52	-1.69	-13.00	-51.70
371.44	-63.87	-65.62	3.79	-2.05	-13.00	-50.87
541.19	-63.68	-65.77	3.99	-1.91	-13.00	-50.68
696.39	-61.00	-62.23	3.69	-2.46	-13.00	-48.00
1422.00	-36.43	-40.69	8.28	-4.02	-13.00	-23.43
2133.00	-49.40	-54.66	10.29	-5.03	-13.00	-36.40

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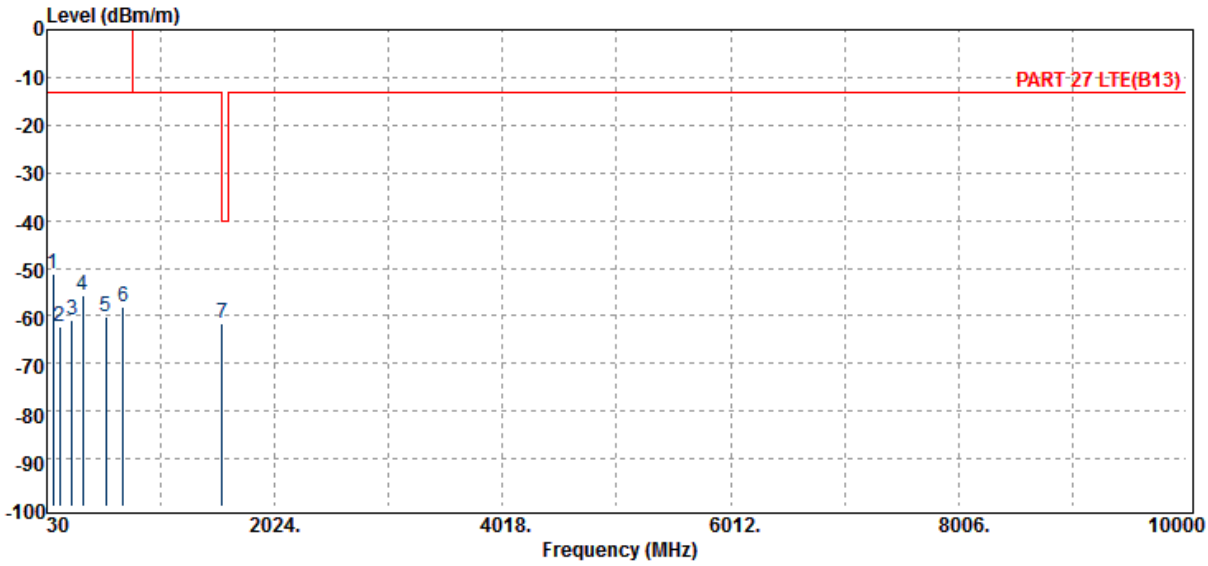
Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.13	-48.77	-1.37	-0.99	-13.00	-38.13
141.55	-62.29	-58.80	-2.22	-1.27	-13.00	-49.29
251.16	-60.94	-62.79	3.55	-1.70	-13.00	-47.94
343.31	-55.69	-57.52	3.82	-2.00	-13.00	-42.69
547.01	-60.28	-62.40	3.98	-1.86	-13.00	-47.28
700.27	-58.15	-59.66	3.67	-2.16	-13.00	-45.15
1564.00	-61.61	-64.04	6.68	-4.26	-40.00	-21.61

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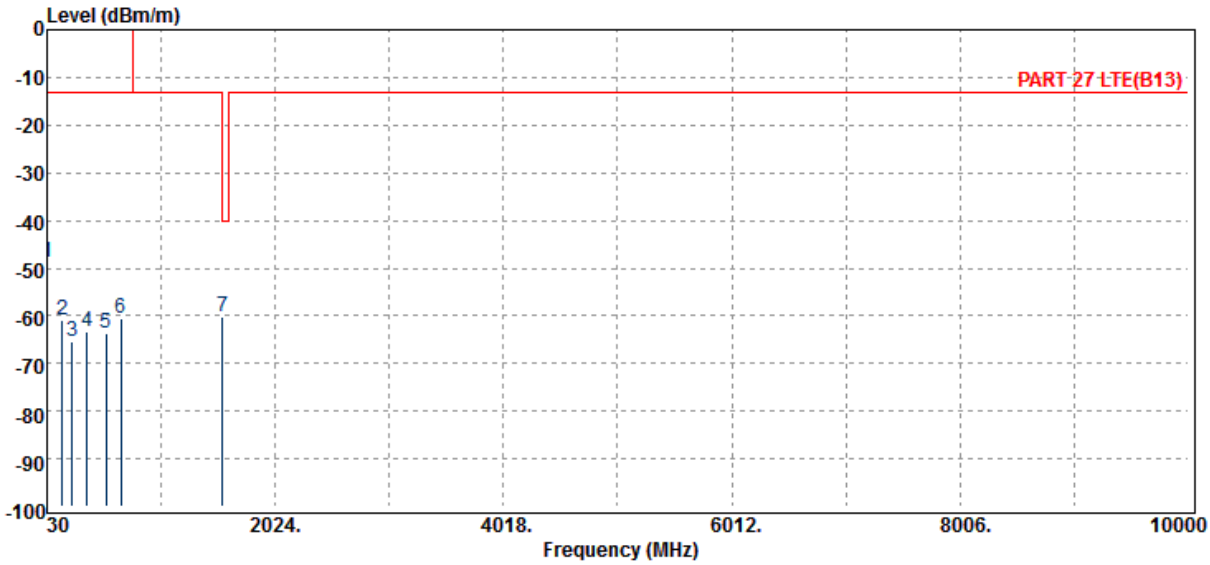
Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.62	-33.47	-14.58	-0.58	-13.00	-35.62
162.89	-60.89	-58.52	-1.06	-1.31	-13.00	-47.89
251.16	-65.29	-67.14	3.55	-1.70	-13.00	-52.29
379.20	-63.30	-65.04	3.77	-2.03	-13.00	-50.30
547.01	-63.53	-65.65	3.98	-1.86	-13.00	-50.53
677.96	-60.45	-61.33	3.74	-2.85	-13.00	-47.45
1564.00	-60.18	-62.61	6.68	-4.26	-40.00	-20.18

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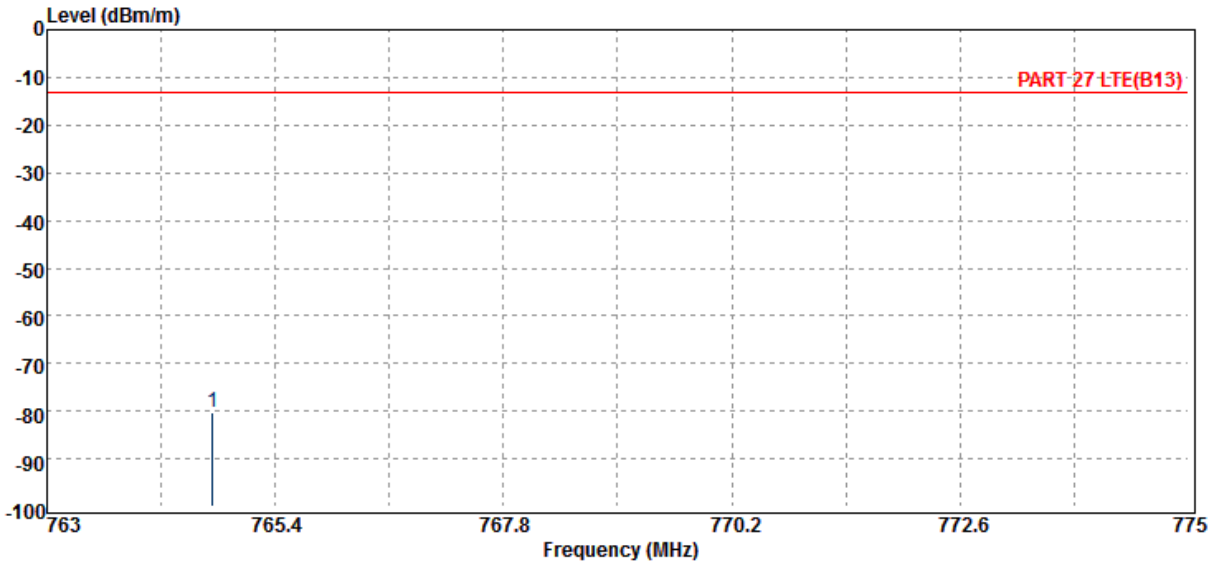
Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.74	-80.28	-82.28	3.46	-1.46	-13.00	-67.28

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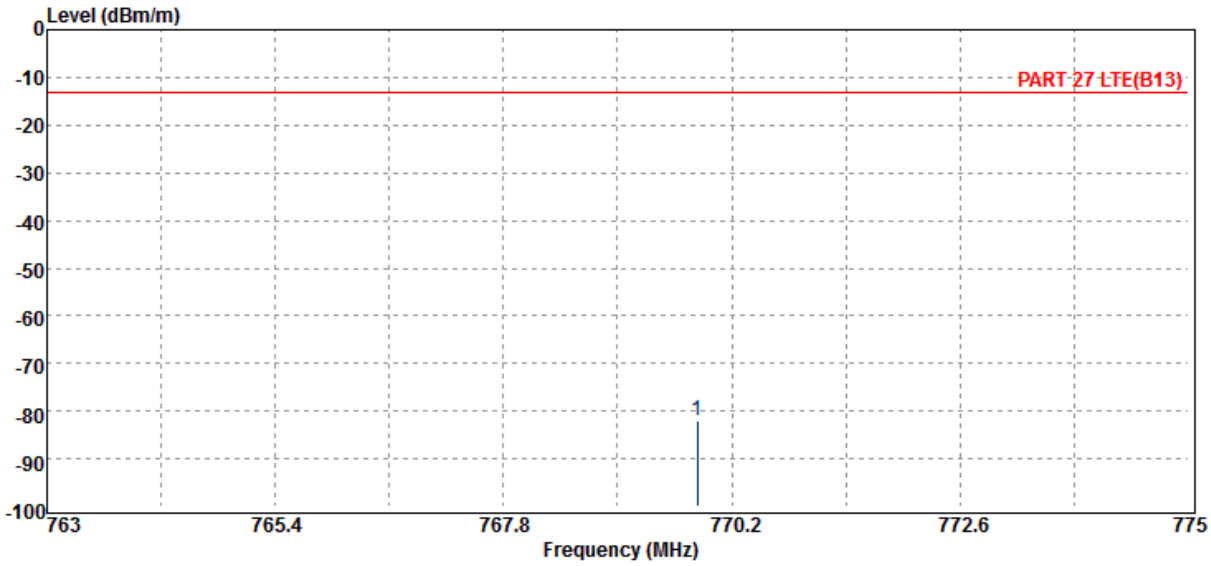
Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
769.84	-81.94	-83.40	3.46	-2.00	-13.00	-68.94

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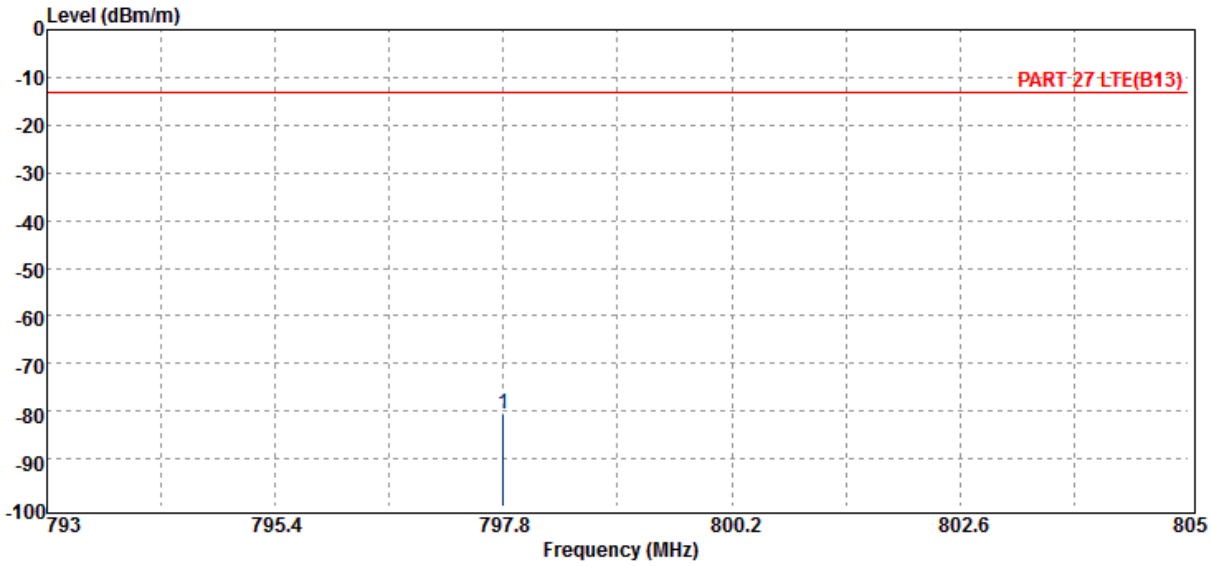
Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
797.80	-80.73	-81.55	3.44	-2.61	-13.00	-67.73

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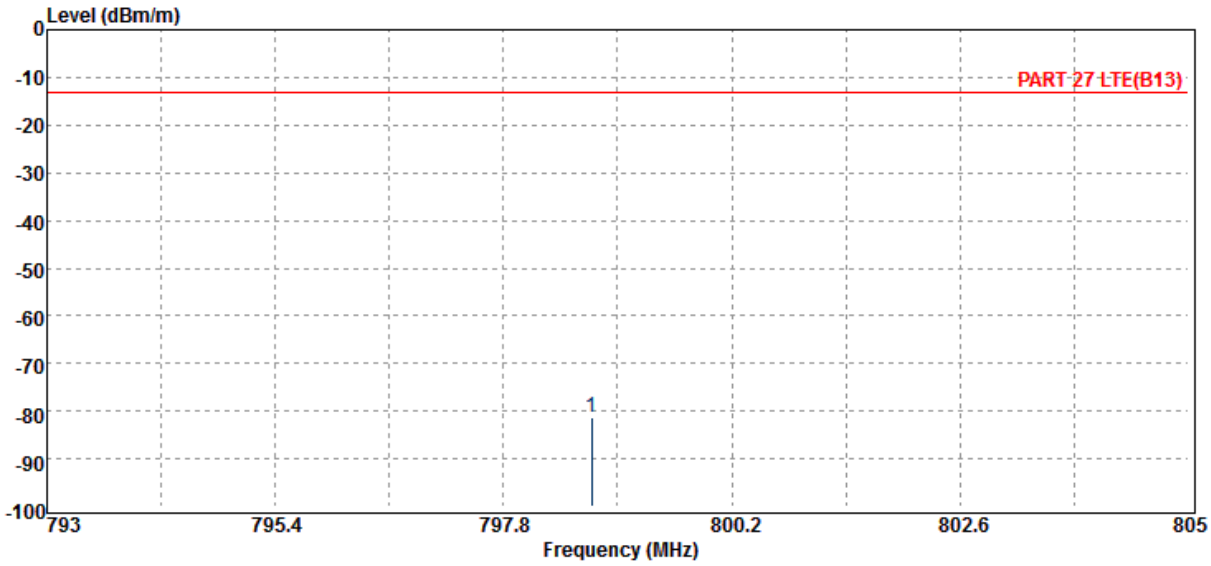
Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
798.72	-81.42	-82.32	3.44	-2.53	-13.00	-68.42

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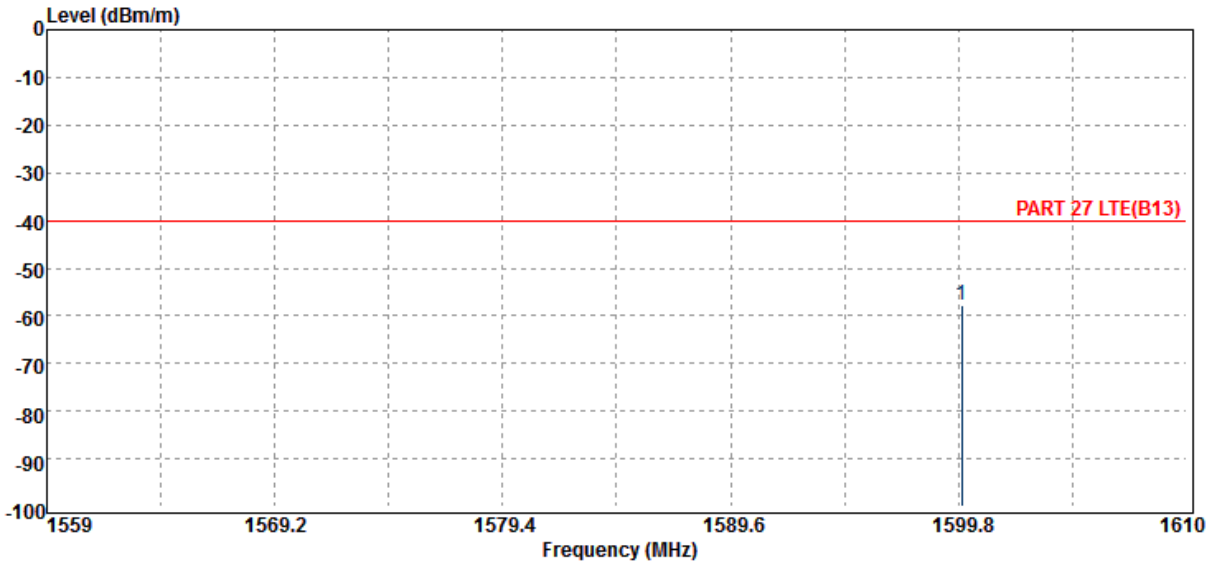
Radiated Spurious Emission Measurement Result: LTE-Band 13 (1558~1610MHz)

Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
1599.95	-57.85	-62.52	8.96	-4.29	-40.00	-17.85

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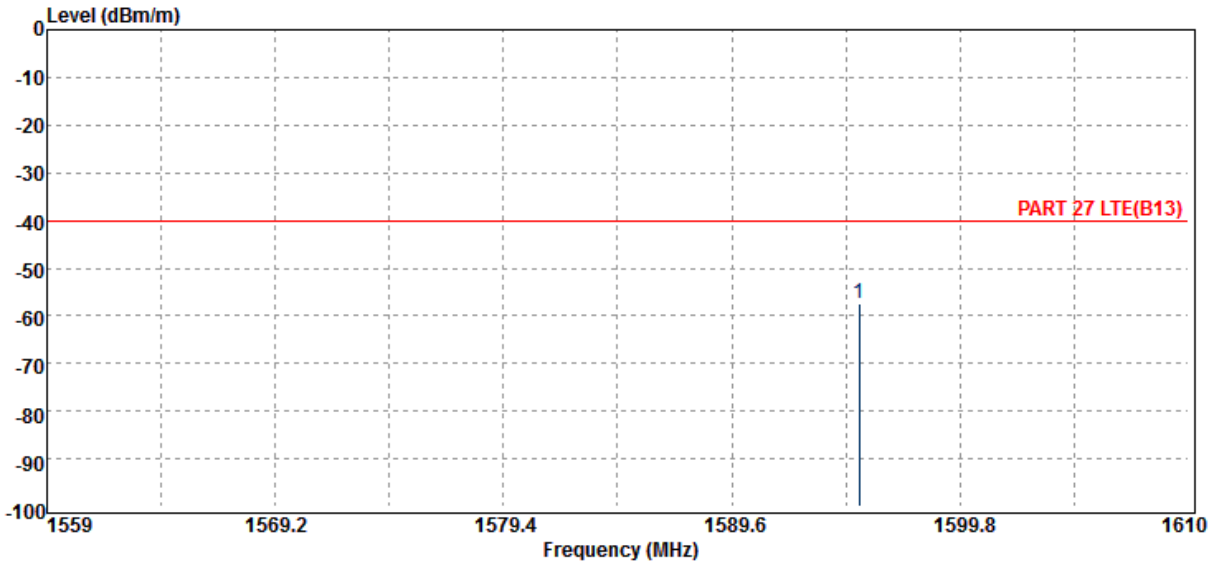
Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
1595.31	-57.41	-62.07	8.94	-4.29	-40.00	-17.41

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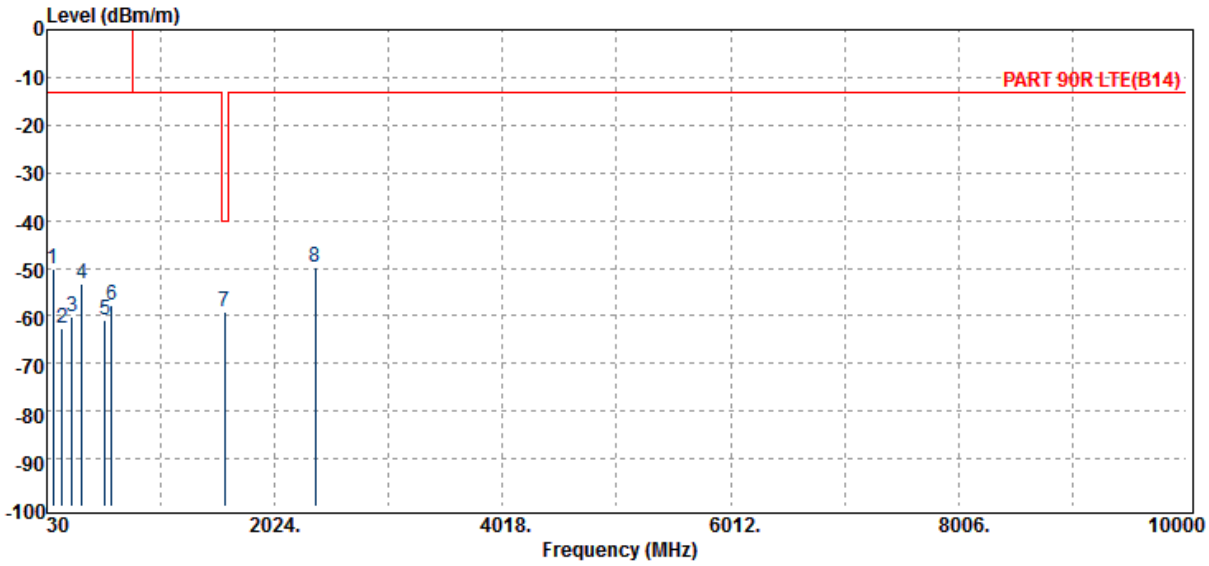
Radiated Spurious Emission Measurement Result: LTE-Band 14 (The Worst Case)

Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:793 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-50.07	-47.36	-1.73	-0.98	-13.00	-37.07
163.86	-62.78	-60.47	-1.00	-1.31	-13.00	-49.78
251.16	-60.13	-61.98	3.55	-1.70	-13.00	-47.13
335.55	-53.41	-55.25	3.79	-1.95	-13.00	-40.41
542.16	-60.88	-63.00	3.99	-1.87	-13.00	-47.88
597.45	-57.92	-59.30	3.56	-2.18	-13.00	-44.92
1586.00	-59.18	-63.81	8.91	-4.28	-40.00	-19.18
2379.00	-49.66	-54.73	10.43	-5.36	-13.00	-36.66

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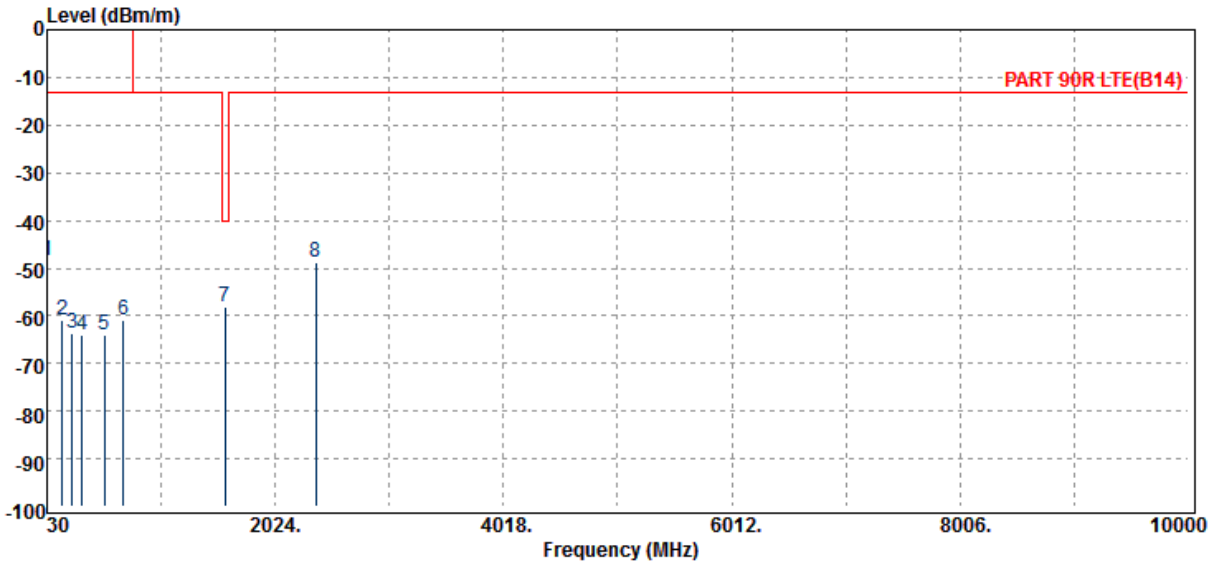
Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:793 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.40	-33.24	-14.58	-0.58	-13.00	-35.40
162.89	-60.81	-58.45	-1.06	-1.31	-13.00	-47.81
251.16	-63.75	-65.61	3.55	-1.70	-13.00	-50.75
337.49	-63.93	-65.77	3.80	-1.96	-13.00	-50.93
531.49	-63.93	-65.63	4.01	-2.31	-13.00	-50.93
699.30	-60.81	-62.26	3.68	-2.24	-13.00	-47.81
1586.00	-58.20	-62.83	8.91	-4.28	-40.00	-18.20
2379.00	-48.74	-53.81	10.43	-5.36	-13.00	-35.74

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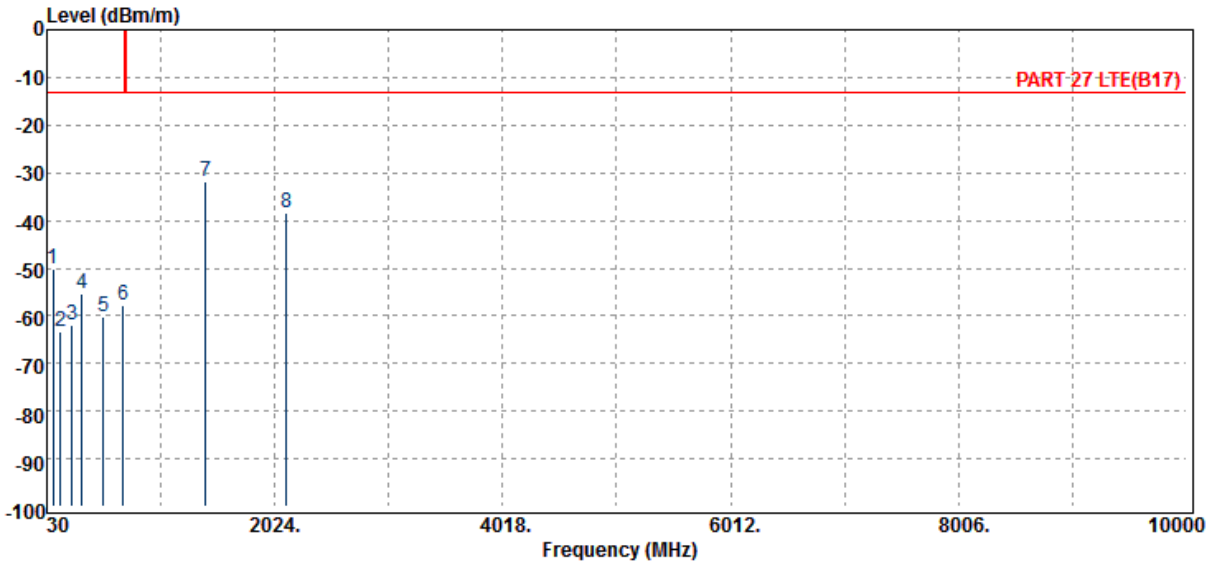
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:709 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-50.16	-47.45	-1.73	-0.98	-13.00	-37.16
151.25	-63.23	-60.21	-1.73	-1.29	-13.00	-50.23
251.16	-61.81	-63.67	3.55	-1.70	-13.00	-48.81
337.49	-55.27	-57.11	3.80	-1.96	-13.00	-42.27
526.64	-60.22	-61.73	4.01	-2.51	-13.00	-47.22
697.36	-57.88	-59.18	3.68	-2.38	-13.00	-44.88
1418.00	-31.81	-36.07	8.27	-4.01	-13.00	-18.81
2127.00	-38.38	-43.65	10.28	-5.02	-13.00	-25.38

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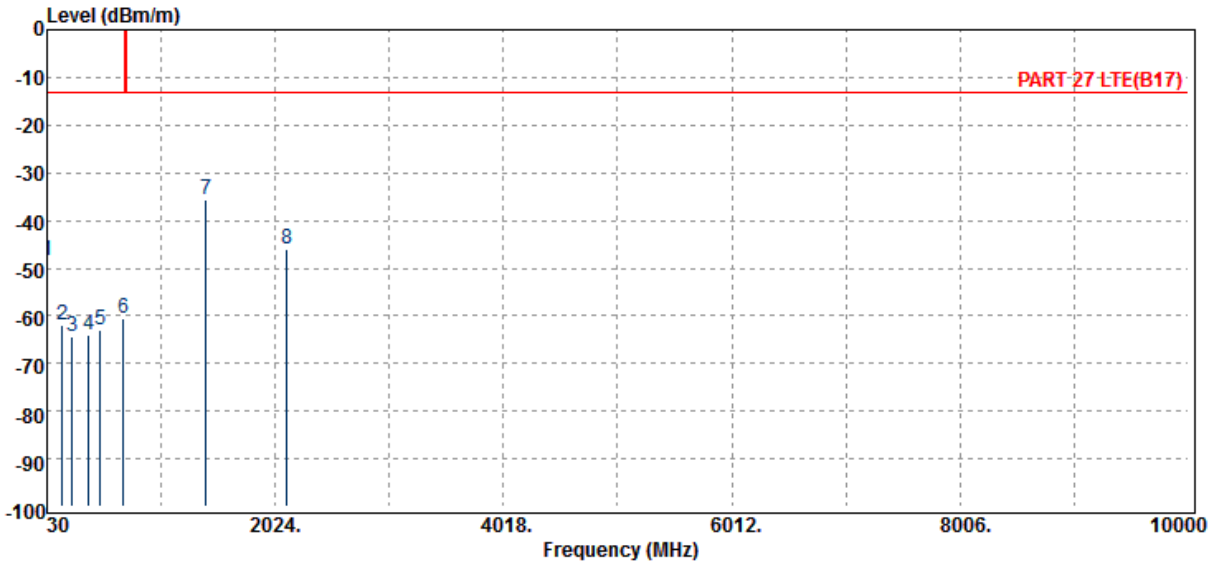
Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:709 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.62	-33.46	-14.58	-0.58	-13.00	-35.62
163.86	-62.09	-59.79	-1.00	-1.31	-13.00	-49.09
250.19	-64.22	-66.05	3.53	-1.70	-13.00	-51.22
396.66	-64.14	-65.77	3.72	-2.09	-13.00	-51.14
492.69	-63.11	-65.07	3.98	-2.01	-13.00	-50.11
697.36	-60.65	-61.95	3.68	-2.38	-13.00	-47.65
1418.00	-35.77	-40.02	8.27	-4.01	-13.00	-22.77
2127.00	-46.12	-51.39	10.28	-5.02	-13.00	-33.12

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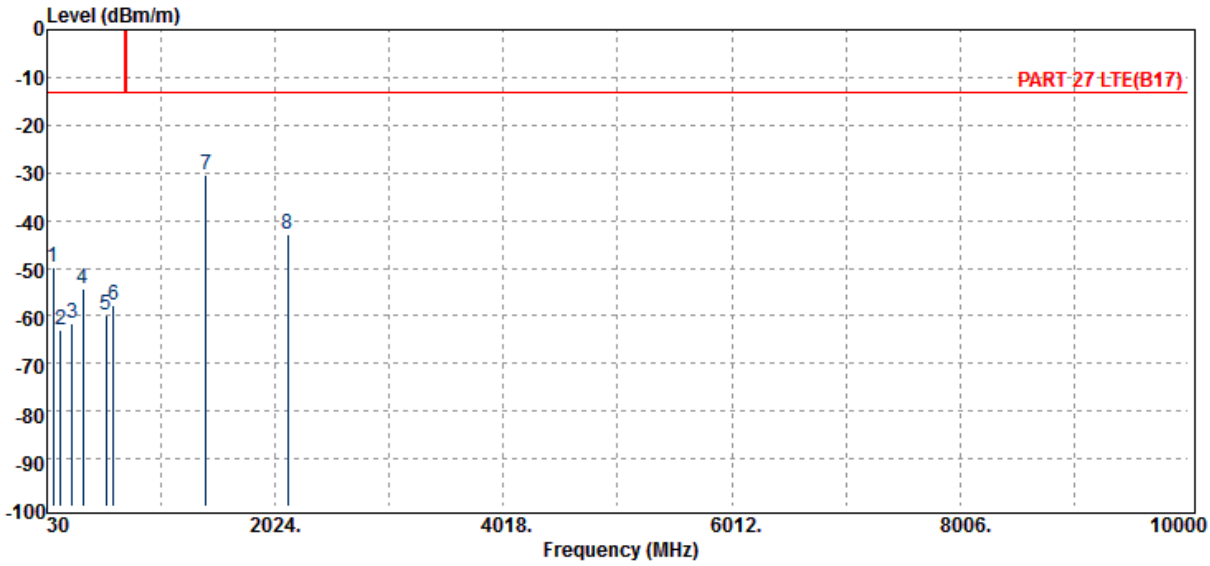
Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-49.69	-47.33	-1.37	-0.99	-13.00	-36.69
146.40	-62.90	-59.64	-1.98	-1.29	-13.00	-49.90
251.16	-61.47	-63.33	3.55	-1.70	-13.00	-48.47
342.34	-54.18	-56.01	3.82	-1.99	-13.00	-41.18
548.95	-59.90	-61.91	3.98	-1.97	-13.00	-46.90
613.94	-57.72	-58.90	3.62	-2.44	-13.00	-44.72
1420.00	-30.34	-34.60	8.28	-4.01	-13.00	-17.34
2130.00	-43.02	-48.29	10.28	-5.02	-13.00	-30.02

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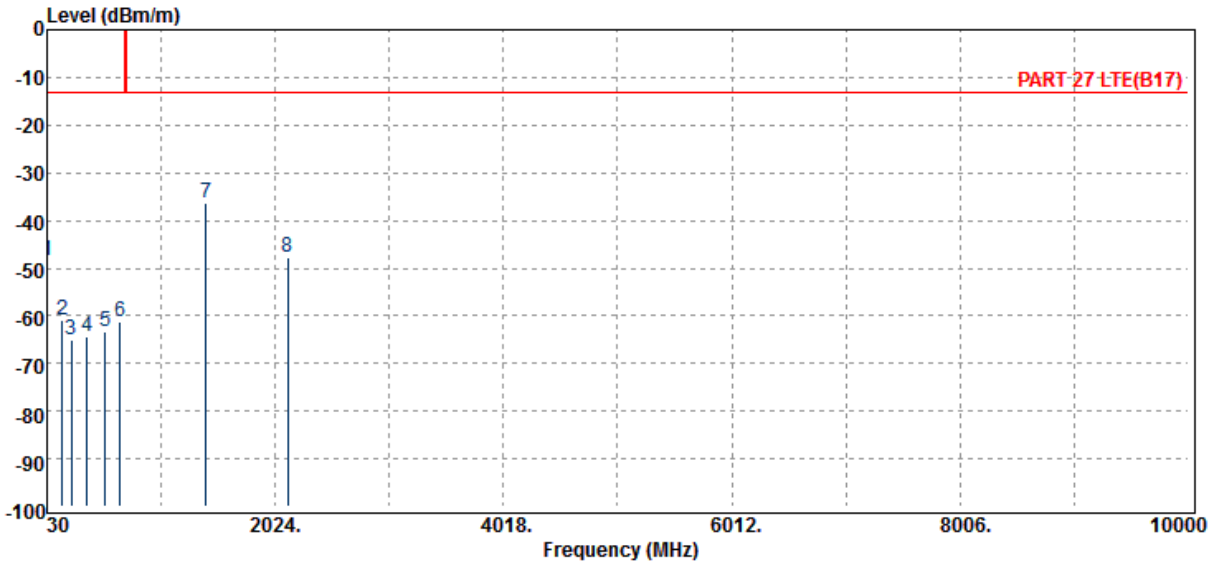
Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.32	-33.16	-14.58	-0.58	-13.00	-35.32
160.95	-61.02	-58.53	-1.18	-1.30	-13.00	-48.02
246.31	-65.20	-67.02	3.51	-1.69	-13.00	-52.20
382.11	-64.21	-65.96	3.76	-2.02	-13.00	-51.21
541.19	-63.41	-65.50	3.99	-1.91	-13.00	-50.41
665.35	-61.14	-62.95	3.78	-1.97	-13.00	-48.14
1420.00	-36.25	-40.51	8.28	-4.01	-13.00	-23.25
2130.00	-47.70	-52.96	10.28	-5.02	-13.00	-34.70

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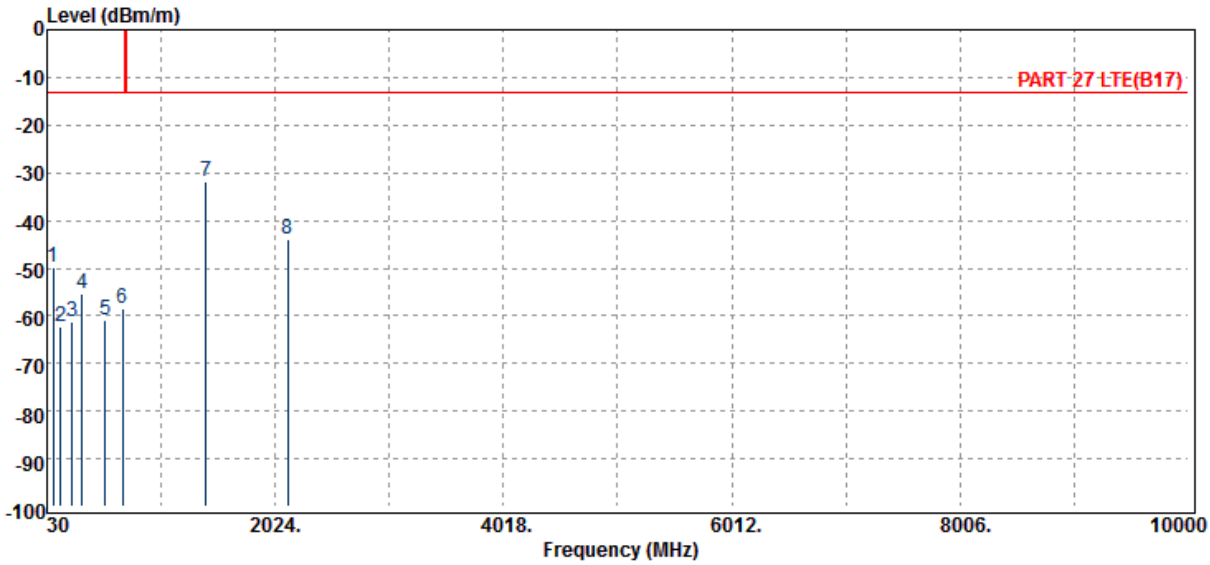
Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-49.70	-47.00	-1.73	-0.98	-13.00	-36.70
146.40	-62.26	-59.00	-1.98	-1.29	-13.00	-49.26
251.16	-61.27	-63.12	3.55	-1.70	-13.00	-48.27
338.46	-55.53	-57.37	3.80	-1.97	-13.00	-42.53
536.34	-61.01	-62.90	4.00	-2.11	-13.00	-48.01
691.54	-58.46	-59.33	3.70	-2.83	-13.00	-45.46
1422.00	-31.91	-36.17	8.28	-4.02	-13.00	-18.91
2133.00	-44.03	-49.28	10.29	-5.03	-13.00	-31.03

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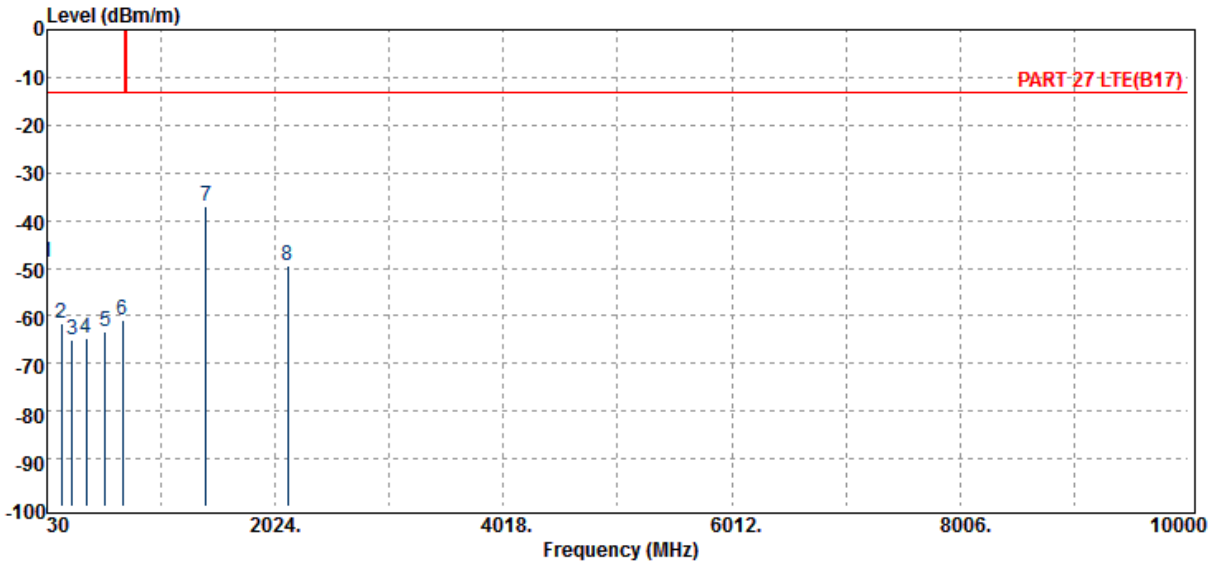
Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-48.77	-34.10	-14.08	-0.59	-13.00	-35.77
159.01	-61.68	-59.08	-1.30	-1.30	-13.00	-48.68
251.16	-64.99	-66.84	3.55	-1.70	-13.00	-51.99
372.41	-64.74	-66.48	3.79	-2.05	-13.00	-51.74
539.25	-63.45	-65.45	4.00	-1.99	-13.00	-50.45
692.51	-60.90	-61.84	3.70	-2.76	-13.00	-47.90
1422.00	-37.12	-41.39	8.28	-4.02	-13.00	-24.12
2133.00	-49.35	-54.61	10.29	-5.03	-13.00	-36.35

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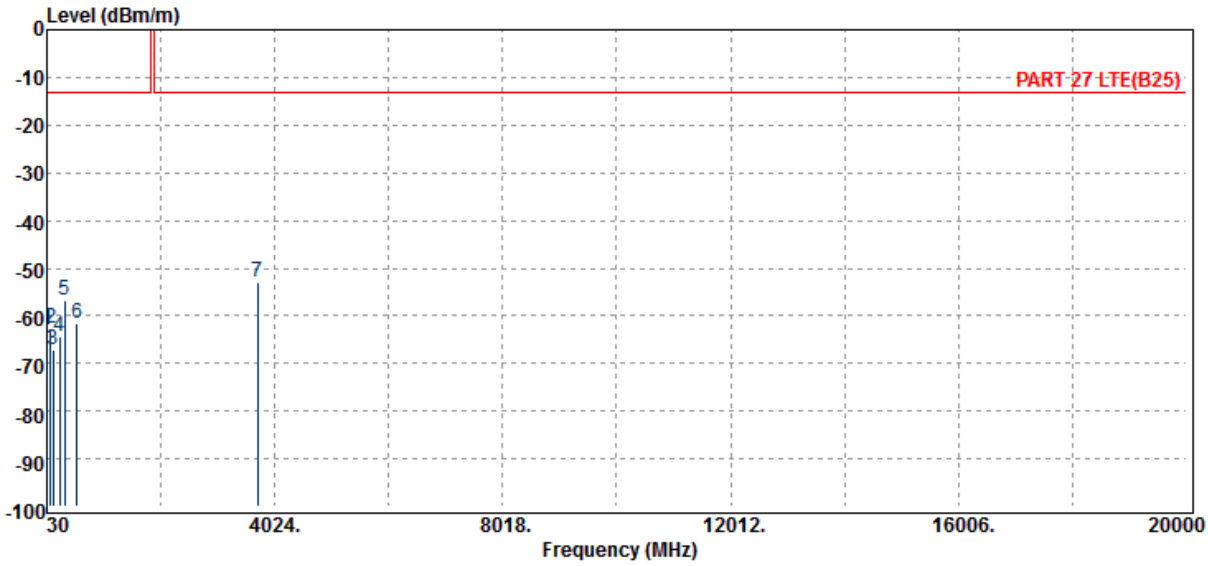
Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
43.58	-63.08	-52.32	-10.08	-0.68	-13.00	-50.08
94.02	-62.50	-62.80	1.32	-1.02	-13.00	-49.50
134.76	-67.08	-65.87	0.03	-1.23	-13.00	-54.08
256.01	-64.34	-68.41	5.77	-1.70	-13.00	-51.34
339.43	-56.74	-60.72	5.96	-1.97	-13.00	-43.74
557.68	-61.75	-65.36	6.06	-2.45	-13.00	-48.75
3715.00	-53.09	-58.78	12.58	-6.89	-13.00	-40.09

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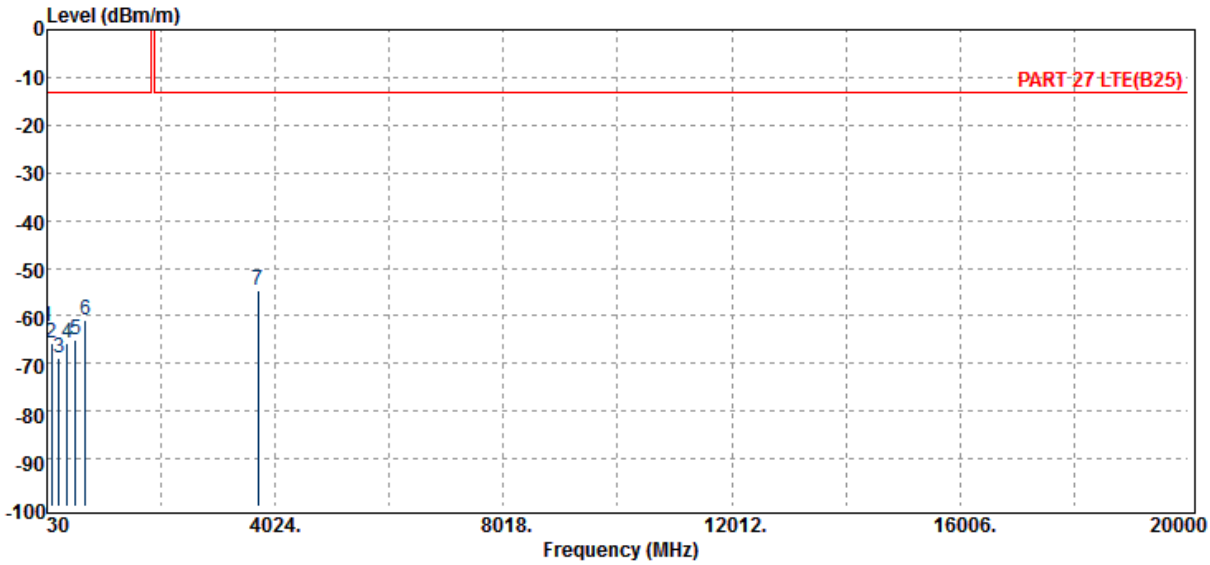
Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
43.58	-62.43	-51.66	-10.08	-0.68	-13.00	-49.43
108.57	-65.61	-64.69	0.17	-1.09	-13.00	-52.61
242.43	-68.97	-72.94	5.64	-1.68	-13.00	-55.97
382.11	-65.57	-69.47	5.91	-2.02	-13.00	-52.57
531.49	-64.92	-68.77	6.16	-2.31	-13.00	-51.92
705.12	-60.74	-64.73	5.80	-1.81	-13.00	-47.74
3715.00	-54.73	-60.42	12.58	-6.89	-13.00	-41.73

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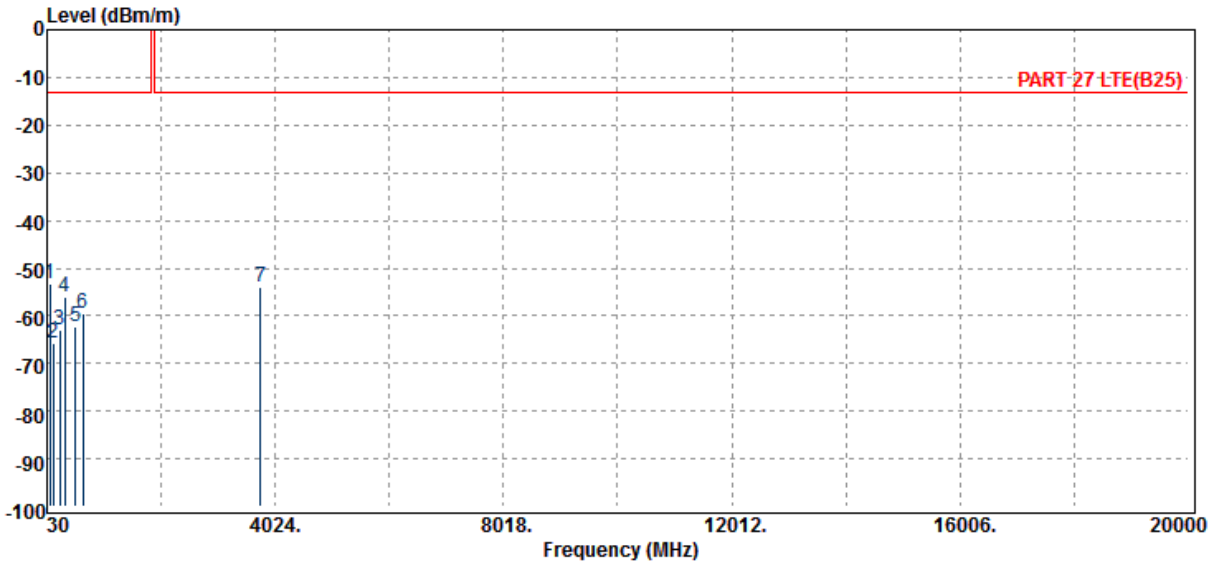
Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
80.44	-53.21	-49.97	-2.28	-0.96	-13.00	-40.21
135.73	-65.64	-62.25	-2.16	-1.24	-13.00	-52.64
251.16	-62.81	-64.66	3.55	-1.70	-13.00	-49.81
340.40	-56.11	-57.95	3.81	-1.98	-13.00	-43.11
534.40	-62.11	-63.93	4.00	-2.19	-13.00	-49.11
664.38	-59.58	-61.41	3.79	-1.96	-13.00	-46.58
3765.00	-54.12	-59.85	12.62	-6.89	-13.00	-41.12

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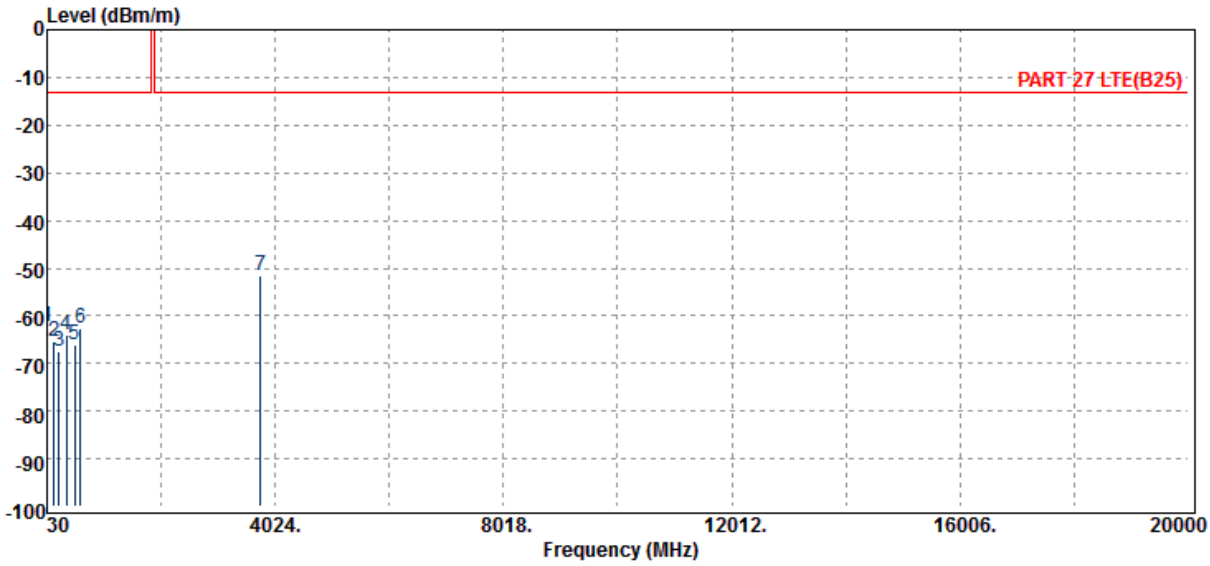
Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-62.38	-49.24	-12.47	-0.67	-13.00	-49.38
147.37	-65.38	-62.15	-1.93	-1.29	-13.00	-52.38
234.67	-67.45	-69.19	3.39	-1.65	-13.00	-54.45
368.53	-64.11	-65.85	3.80	-2.06	-13.00	-51.11
511.12	-65.96	-67.60	4.04	-2.40	-13.00	-52.96
611.03	-62.63	-63.89	3.60	-2.34	-13.00	-49.63
3765.00	-51.52	-57.25	12.62	-6.89	-13.00	-38.52

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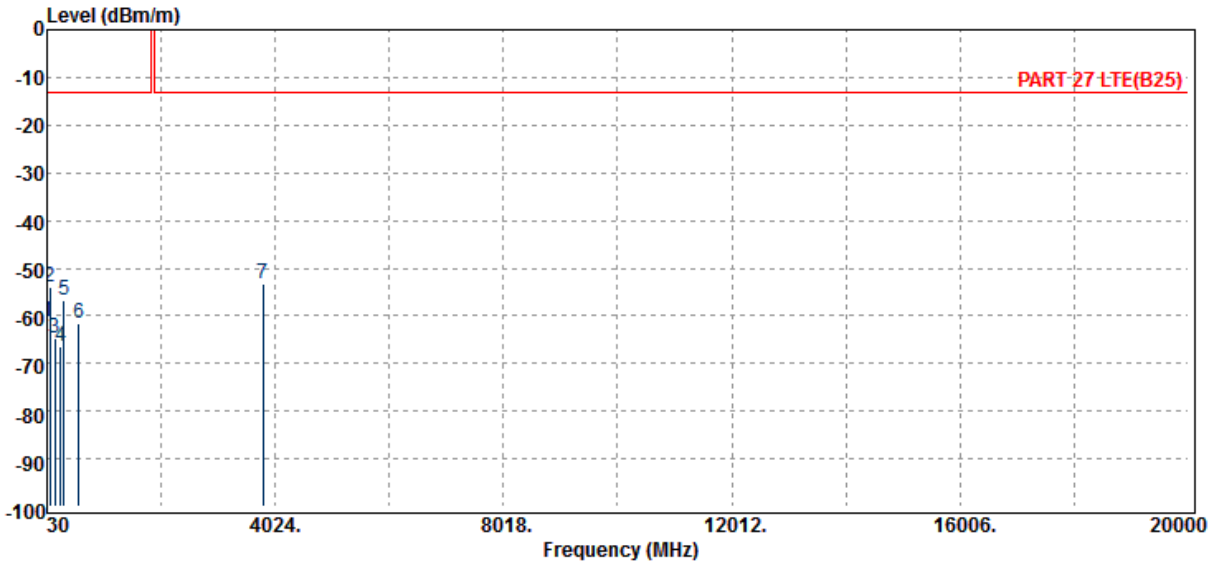
Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	-61.22	-46.78	-13.84	-0.60	-13.00	-48.22
79.47	-54.02	-50.54	-2.53	-0.96	-13.00	-41.02
161.92	-64.68	-62.26	-1.12	-1.30	-13.00	-51.68
267.65	-66.32	-68.14	3.54	-1.71	-13.00	-53.32
332.64	-56.79	-58.64	3.78	-1.93	-13.00	-43.79
582.90	-61.59	-62.97	3.68	-2.30	-13.00	-48.59
3815.00	-53.36	-59.02	12.66	-7.00	-13.00	-40.36

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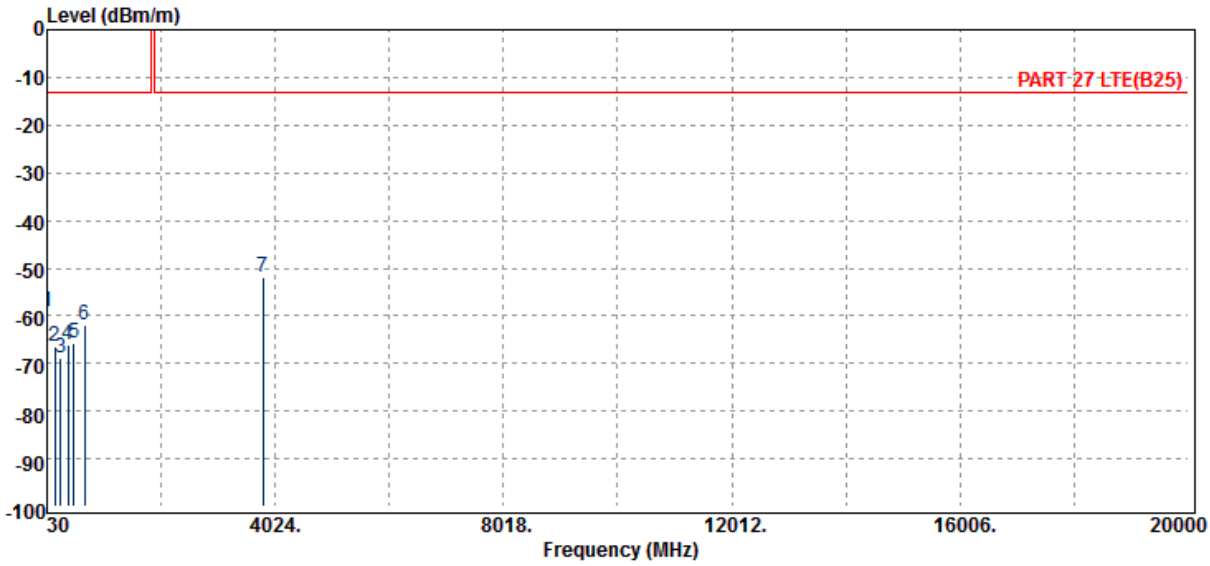
Operation Band	:LTE B25	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
33.88	-59.17	-44.95	-13.61	-0.61	-13.00	-46.17
168.71	-66.48	-64.46	-0.70	-1.33	-13.00	-53.48
271.53	-68.74	-70.50	3.49	-1.72	-13.00	-55.74
396.66	-65.97	-67.60	3.72	-2.09	-13.00	-52.97
503.36	-65.59	-67.36	4.05	-2.28	-13.00	-52.59
690.57	-62.09	-62.89	3.70	-2.91	-13.00	-49.09
3815.00	-51.98	-57.63	12.66	-7.00	-13.00	-38.98

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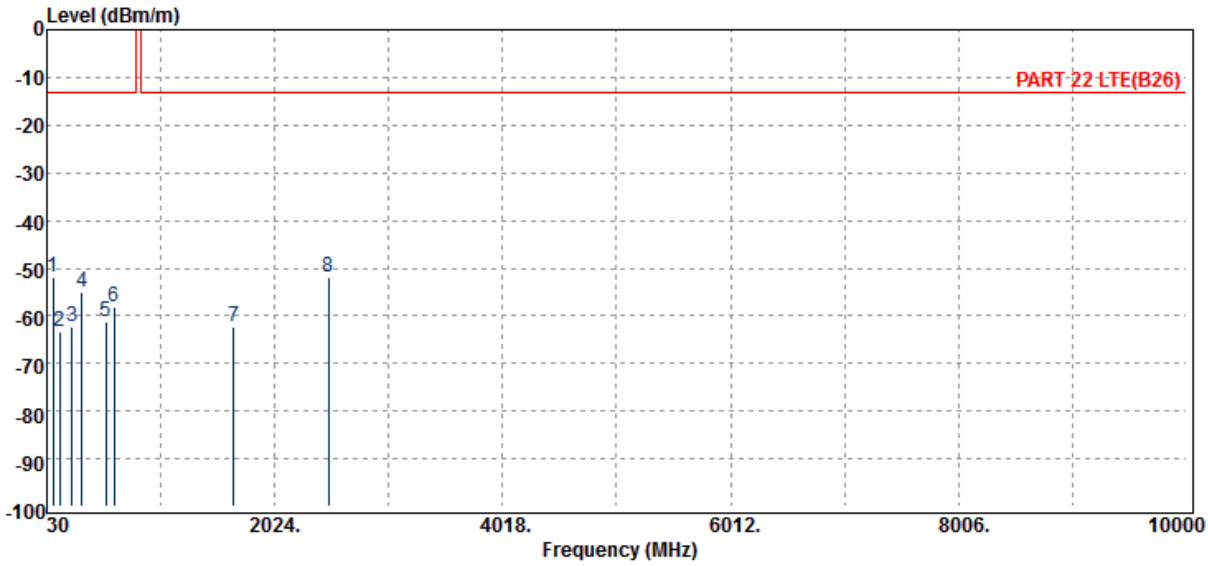
Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:831.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.84	-49.48	-1.37	-0.99	-13.00	-38.84
144.46	-63.24	-59.88	-2.08	-1.28	-13.00	-50.24
251.16	-62.43	-64.28	3.55	-1.70	-13.00	-49.43
333.61	-55.01	-56.86	3.78	-1.93	-13.00	-42.01
544.10	-61.09	-63.29	3.99	-1.79	-13.00	-48.09
619.76	-58.19	-59.21	3.66	-2.63	-13.00	-45.19
1663.00	-62.43	-65.08	7.02	-4.38	-13.00	-49.43
2494.50	-51.76	-54.59	8.35	-5.52	-13.00	-38.76

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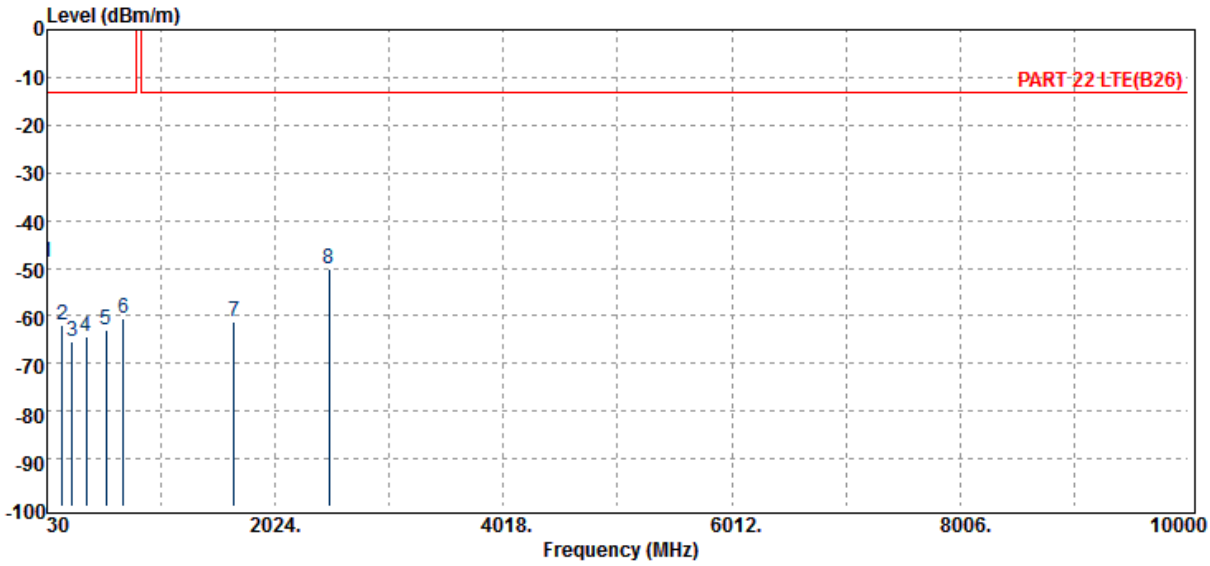
Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:831.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.67	-33.51	-14.58	-0.58	-13.00	-35.67
162.89	-62.06	-59.70	-1.06	-1.31	-13.00	-49.06
251.16	-65.47	-67.32	3.55	-1.70	-13.00	-52.47
369.50	-64.36	-66.10	3.80	-2.06	-13.00	-51.36
546.04	-63.01	-65.19	3.99	-1.81	-13.00	-50.01
694.45	-60.50	-61.59	3.69	-2.61	-13.00	-47.50
1663.00	-61.40	-64.05	7.02	-4.38	-13.00	-48.40
2494.50	-50.12	-52.95	8.35	-5.52	-13.00	-37.12

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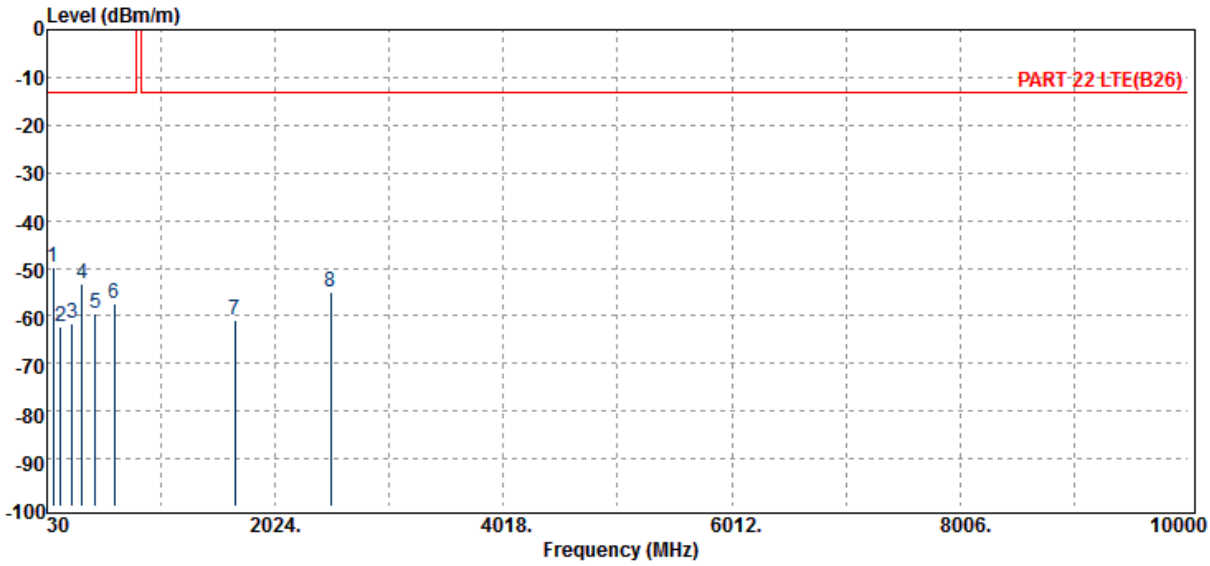
Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-49.72	-47.02	-1.73	-0.98	-13.00	-36.72
148.34	-62.33	-59.15	-1.89	-1.29	-13.00	-49.33
251.16	-61.57	-63.42	3.55	-1.70	-13.00	-48.57
333.61	-53.35	-55.19	3.78	-1.93	-13.00	-40.35
451.95	-59.65	-61.06	3.56	-2.15	-13.00	-46.65
619.76	-57.60	-58.62	3.66	-2.63	-13.00	-44.60
1673.00	-60.98	-63.65	7.06	-4.39	-13.00	-47.98
2509.50	-55.01	-57.85	8.36	-5.53	-13.00	-42.01

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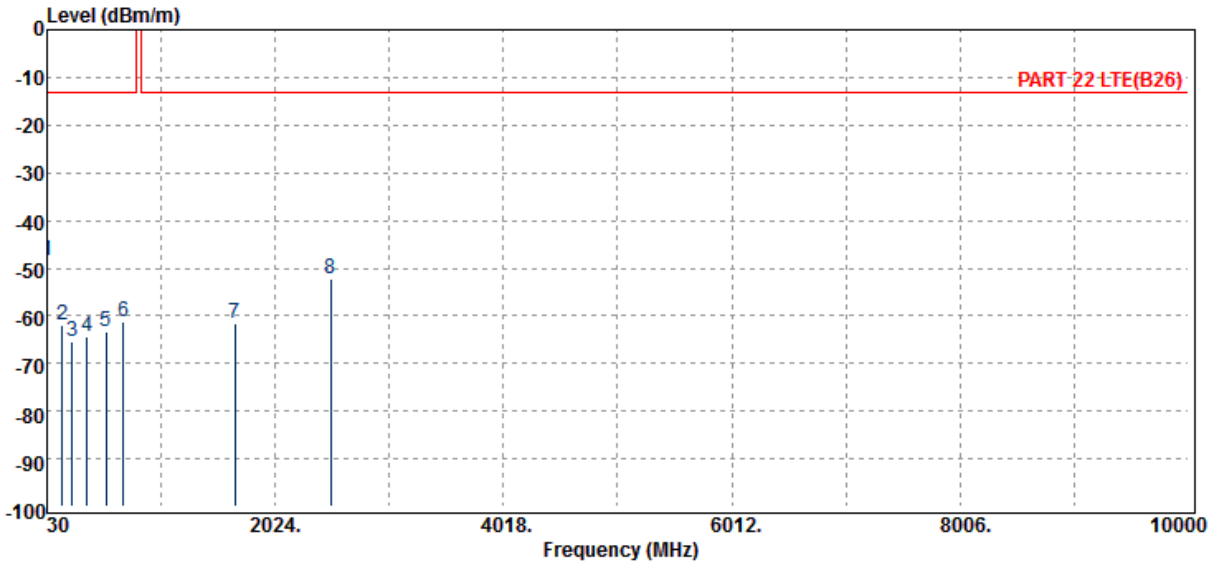
Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.53	-33.37	-14.58	-0.58	-13.00	-35.53
162.89	-61.78	-59.42	-1.06	-1.31	-13.00	-48.78
250.19	-65.33	-67.17	3.53	-1.70	-13.00	-52.33
377.26	-64.36	-66.10	3.78	-2.03	-13.00	-51.36
546.04	-63.24	-65.41	3.99	-1.81	-13.00	-50.24
700.27	-61.26	-62.78	3.67	-2.16	-13.00	-48.26
1673.00	-61.50	-64.16	7.06	-4.39	-13.00	-48.50
2509.50	-52.17	-55.01	8.36	-5.53	-13.00	-39.17

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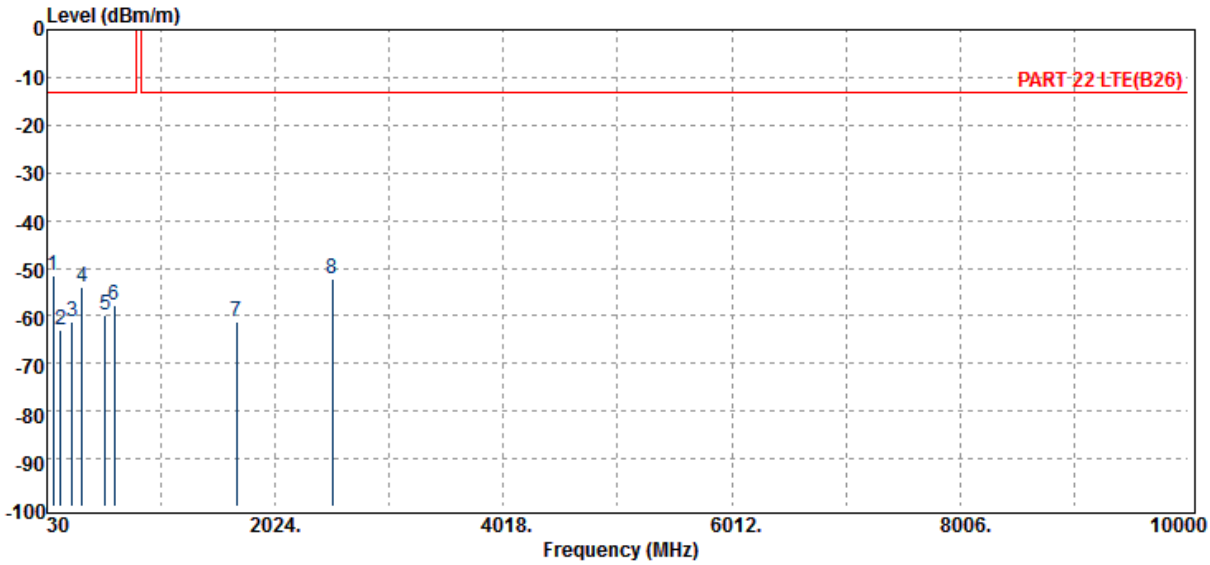
Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:841.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.72	-49.36	-1.37	-0.99	-13.00	-38.72
146.40	-62.91	-59.64	-1.98	-1.29	-13.00	-49.91
248.25	-61.24	-63.07	3.52	-1.69	-13.00	-48.24
337.49	-53.93	-55.76	3.80	-1.96	-13.00	-40.93
539.25	-59.73	-61.74	4.00	-1.99	-13.00	-46.73
619.76	-57.74	-58.76	3.66	-2.63	-13.00	-44.74
1683.00	-61.14	-63.82	7.09	-4.41	-13.00	-48.14
2524.50	-52.27	-55.12	8.39	-5.54	-13.00	-39.27

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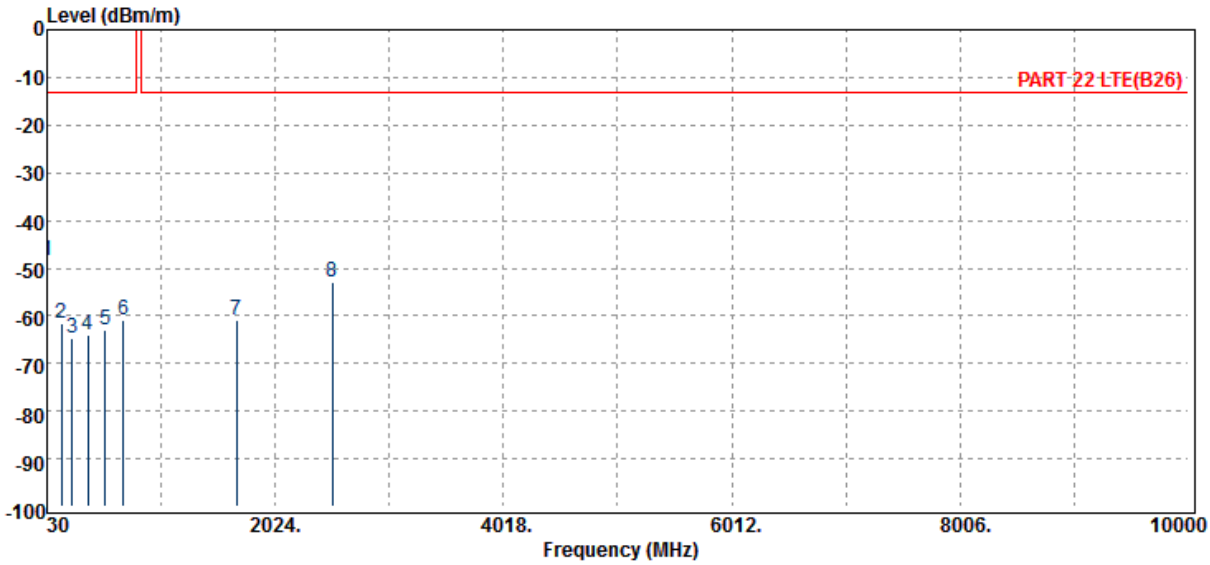
Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:841.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.41	-33.25	-14.58	-0.58	-13.00	-35.41
159.01	-61.69	-59.10	-1.30	-1.30	-13.00	-48.69
251.16	-64.79	-66.64	3.55	-1.70	-13.00	-51.79
388.90	-64.01	-65.72	3.74	-2.04	-13.00	-51.01
542.16	-62.94	-65.07	3.99	-1.87	-13.00	-49.94
697.36	-60.79	-62.09	3.68	-2.38	-13.00	-47.79
1683.00	-60.77	-63.46	7.09	-4.41	-13.00	-47.77
2524.50	-52.89	-55.74	8.39	-5.54	-13.00	-39.89

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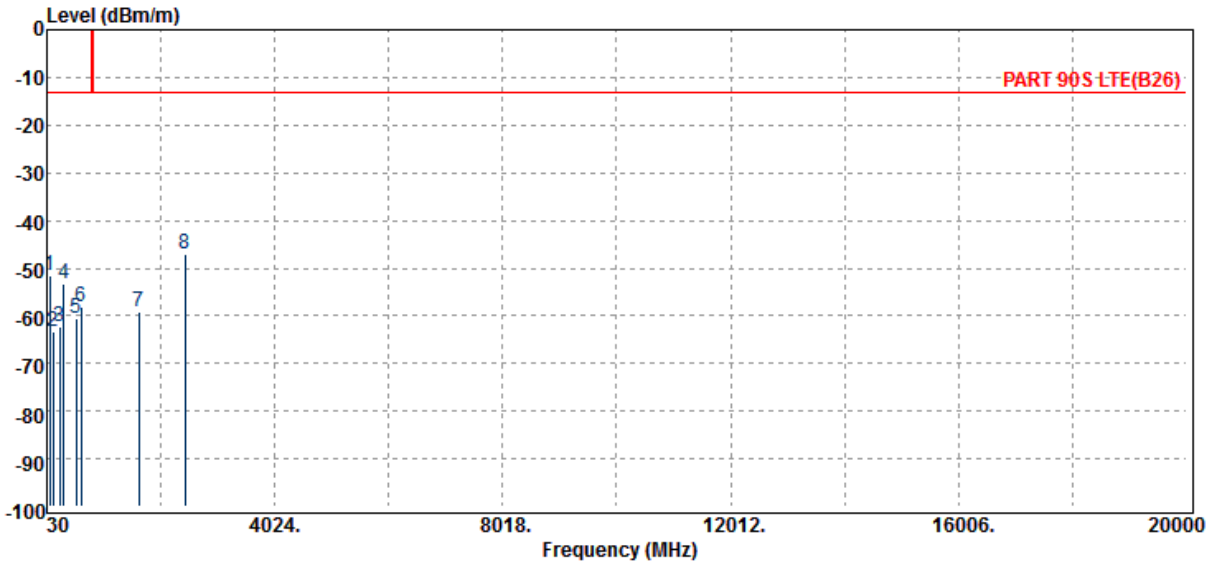
Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Band	:Part90s LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-51.67	-48.61	-2.09	-0.97	-13.00	-38.67
143.49	-63.28	-59.88	-2.13	-1.28	-13.00	-50.28
253.10	-62.42	-64.30	3.58	-1.70	-13.00	-49.42
330.70	-53.22	-55.07	3.77	-1.92	-13.00	-40.22
547.01	-60.47	-62.59	3.98	-1.86	-13.00	-47.47
626.55	-58.08	-59.00	3.70	-2.78	-13.00	-45.08
1638.00	-59.14	-63.89	9.09	-4.34	-13.00	-46.14
2457.00	-47.13	-52.13	10.48	-5.47	-13.00	-34.13

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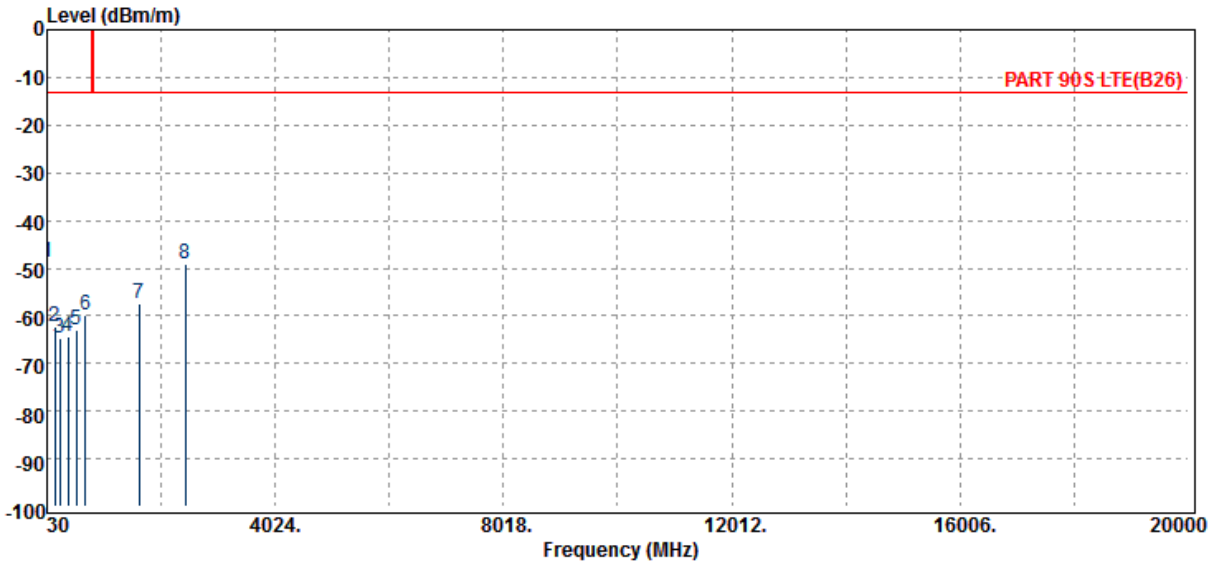
Operation Band	:Part90s LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.84	-33.68	-14.58	-0.58	-13.00	-35.84
162.89	-62.34	-59.97	-1.06	-1.31	-13.00	-49.34
248.25	-64.69	-66.52	3.52	-1.69	-13.00	-51.69
400.54	-64.43	-66.02	3.71	-2.12	-13.00	-51.43
544.10	-63.02	-65.22	3.99	-1.79	-13.00	-50.02
697.36	-59.85	-61.15	3.68	-2.38	-13.00	-46.85
1638.00	-57.43	-62.19	9.09	-4.34	-13.00	-44.43
2457.00	-49.15	-54.16	10.48	-5.47	-13.00	-36.15

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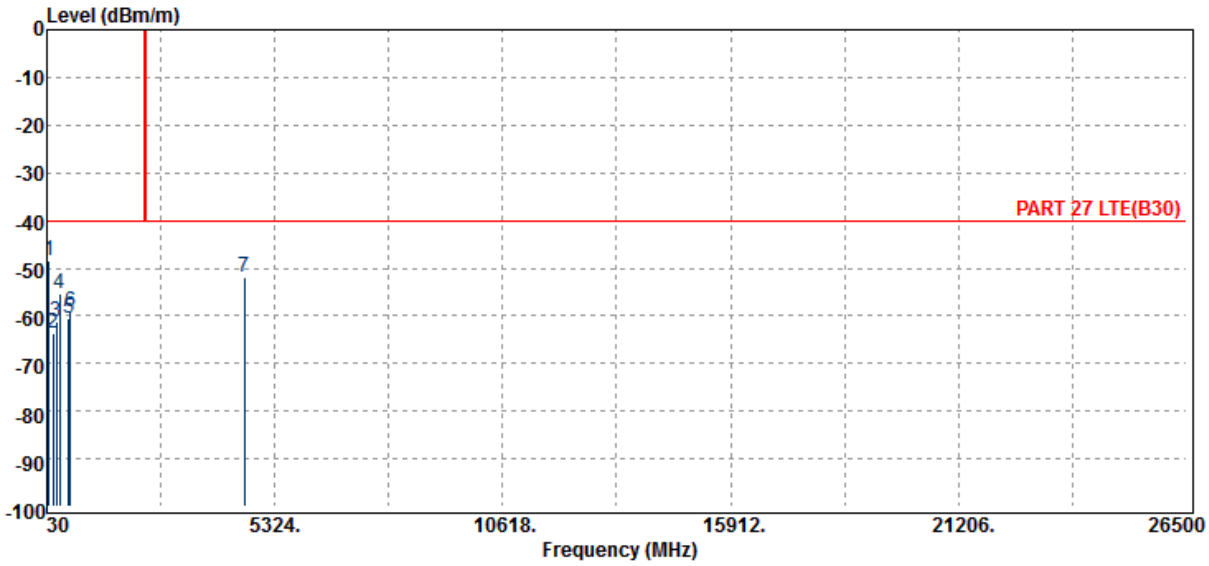
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2307.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-48.53	-46.17	-1.37	-0.99	-40.00	-8.53
170.65	-63.58	-61.73	-0.51	-1.33	-40.00	-23.58
248.25	-61.33	-63.16	3.52	-1.69	-40.00	-21.33
330.70	-55.31	-57.16	3.77	-1.92	-40.00	-15.31
542.16	-60.55	-62.67	3.99	-1.87	-40.00	-20.55
584.84	-59.12	-60.54	3.67	-2.25	-40.00	-19.12
4615.00	-52.07	-57.01	12.65	-7.72	-40.00	-12.07

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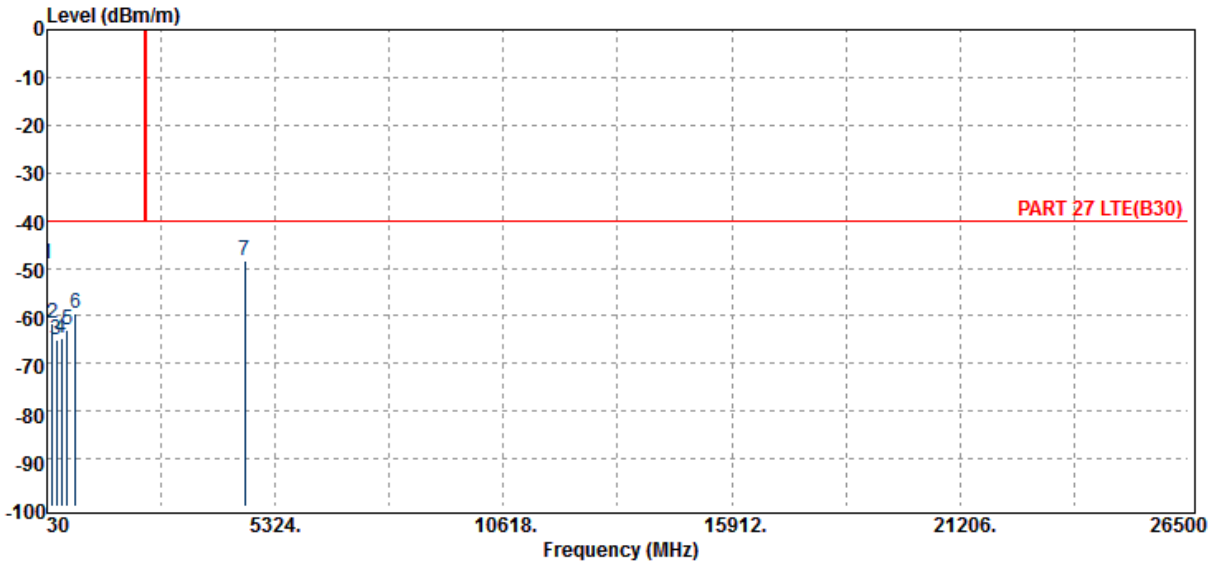
Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2307.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.22	-34.06	-14.58	-0.58	-40.00	-9.22
159.01	-61.50	-58.90	-1.30	-1.30	-40.00	-21.50
248.25	-65.10	-66.93	3.52	-1.69	-40.00	-25.10
367.56	-64.74	-66.48	3.80	-2.06	-40.00	-24.74
492.69	-62.97	-64.94	3.98	-2.01	-40.00	-22.97
697.36	-59.58	-60.88	3.68	-2.38	-40.00	-19.58
4615.00	-48.48	-53.41	12.65	-7.72	-40.00	-8.48

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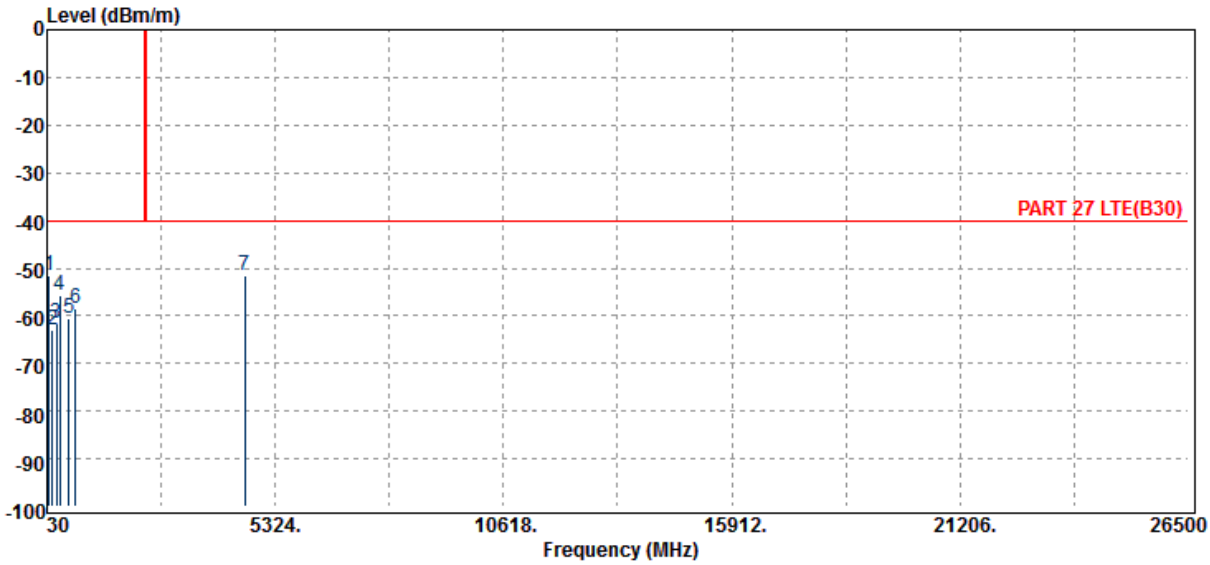
Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2310 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-51.49	-49.13	-1.37	-0.99	-40.00	-11.49
163.86	-63.06	-60.76	-1.00	-1.31	-40.00	-23.06
251.16	-61.69	-63.54	3.55	-1.70	-40.00	-21.69
335.55	-55.68	-57.52	3.79	-1.95	-40.00	-15.68
547.01	-60.49	-62.61	3.98	-1.86	-40.00	-20.49
689.60	-58.32	-59.04	3.71	-2.98	-40.00	-18.32
4620.00	-51.63	-56.56	12.65	-7.72	-40.00	-11.63

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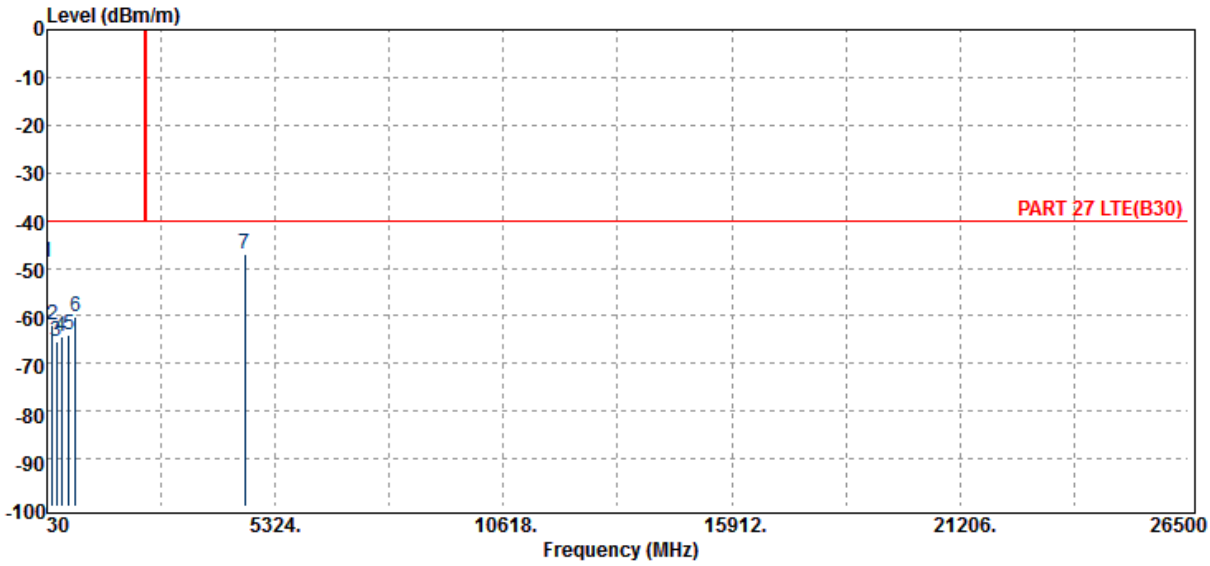
Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2310 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.78	-33.62	-14.58	-0.58	-40.00	-8.78
160.95	-61.84	-59.35	-1.18	-1.30	-40.00	-21.84
248.25	-65.34	-67.17	3.52	-1.69	-40.00	-25.34
367.56	-64.42	-66.16	3.80	-2.06	-40.00	-24.42
542.16	-64.00	-66.12	3.99	-1.87	-40.00	-24.00
696.39	-60.12	-61.35	3.69	-2.46	-40.00	-20.12
4620.00	-47.09	-52.02	12.65	-7.72	-40.00	-7.09

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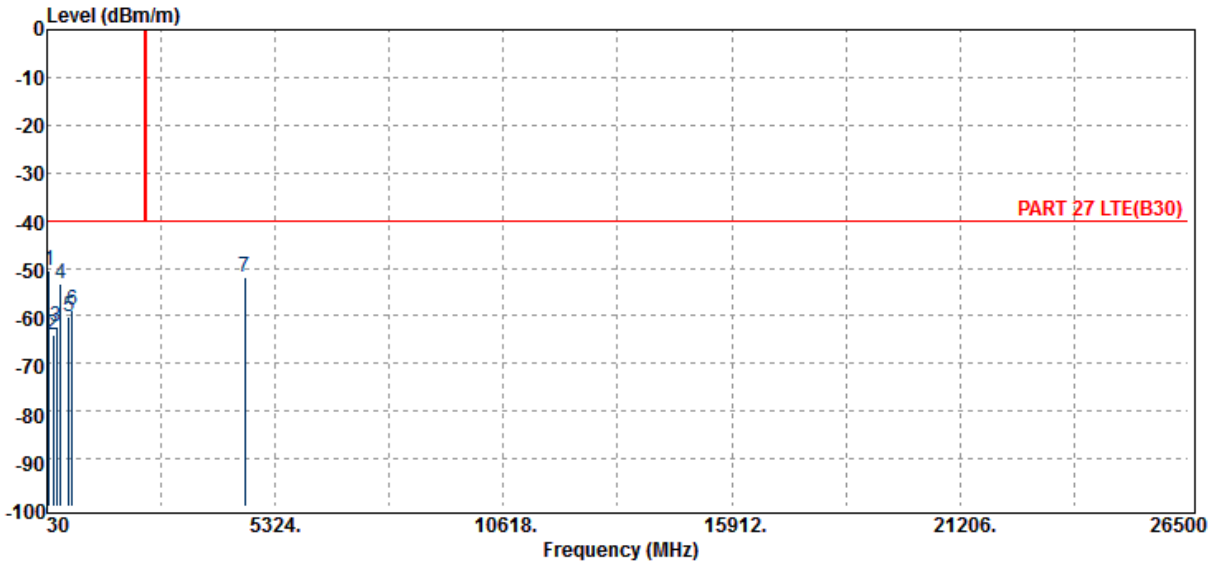
Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2312.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-50.62	-47.56	-2.09	-0.97	-40.00	-10.62
165.80	-63.85	-61.67	-0.88	-1.31	-40.00	-23.85
251.16	-62.45	-64.30	3.55	-1.70	-40.00	-22.45
348.16	-53.13	-54.96	3.85	-2.02	-40.00	-13.13
544.10	-60.25	-62.45	3.99	-1.79	-40.00	-20.25
621.70	-58.98	-59.95	3.67	-2.70	-40.00	-18.98
4625.00	-51.76	-56.68	12.65	-7.72	-40.00	-11.76

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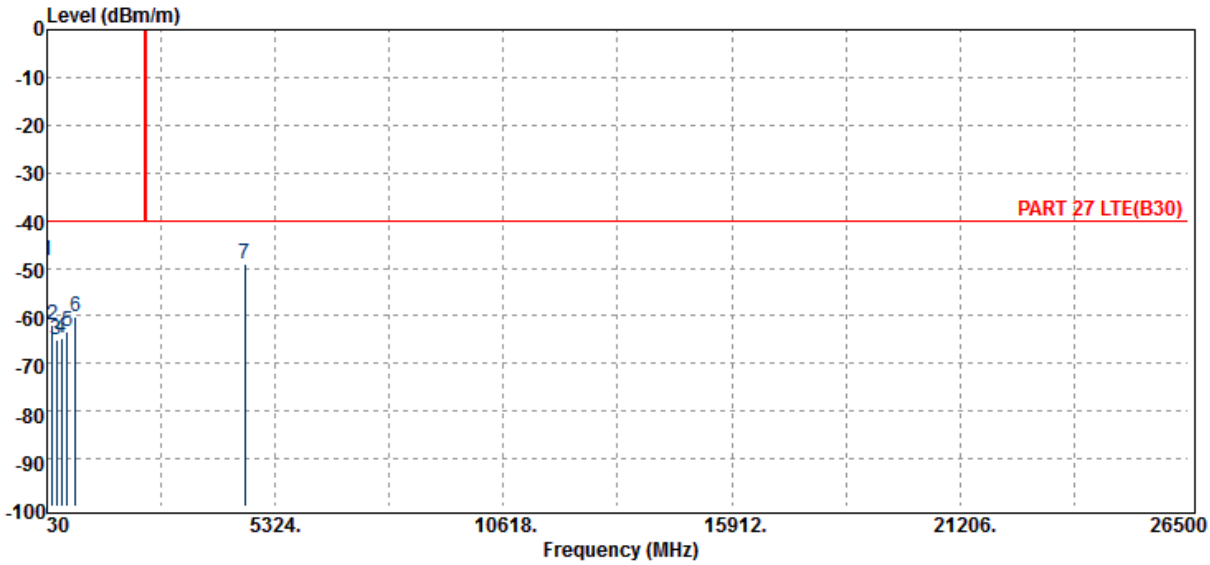
Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2312.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.53	-33.37	-14.58	-0.58	-40.00	-8.53
162.89	-61.86	-59.50	-1.06	-1.31	-40.00	-21.86
256.01	-65.01	-66.92	3.62	-1.70	-40.00	-25.01
359.80	-64.68	-66.45	3.83	-2.06	-40.00	-24.68
497.54	-63.24	-65.13	4.03	-2.13	-40.00	-23.24
697.36	-60.34	-61.64	3.68	-2.38	-40.00	-20.34
4625.00	-49.20	-54.12	12.65	-7.72	-40.00	-9.20

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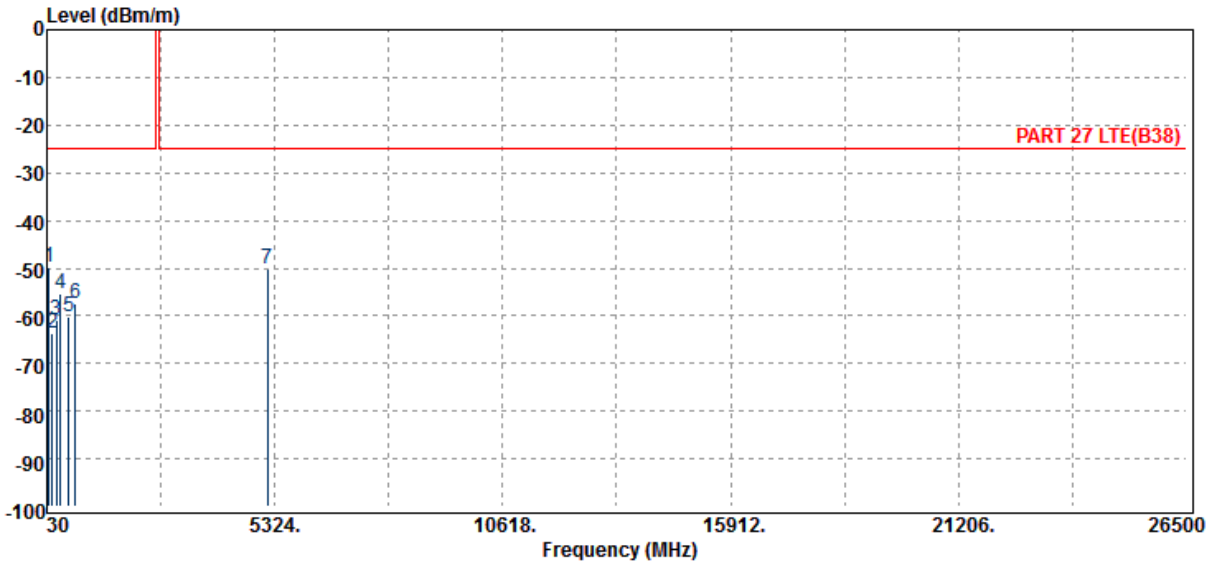
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2577.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-49.86	-47.49	-1.37	-0.99	-25.00	-24.86
149.31	-63.64	-60.51	-1.84	-1.29	-25.00	-38.64
251.16	-60.74	-62.59	3.55	-1.70	-25.00	-35.74
338.46	-55.40	-57.24	3.80	-1.97	-25.00	-30.40
541.19	-60.38	-62.46	3.99	-1.91	-25.00	-35.38
697.36	-57.59	-58.89	3.68	-2.38	-25.00	-32.59
5155.00	-50.27	-54.84	12.69	-8.12	-25.00	-25.27

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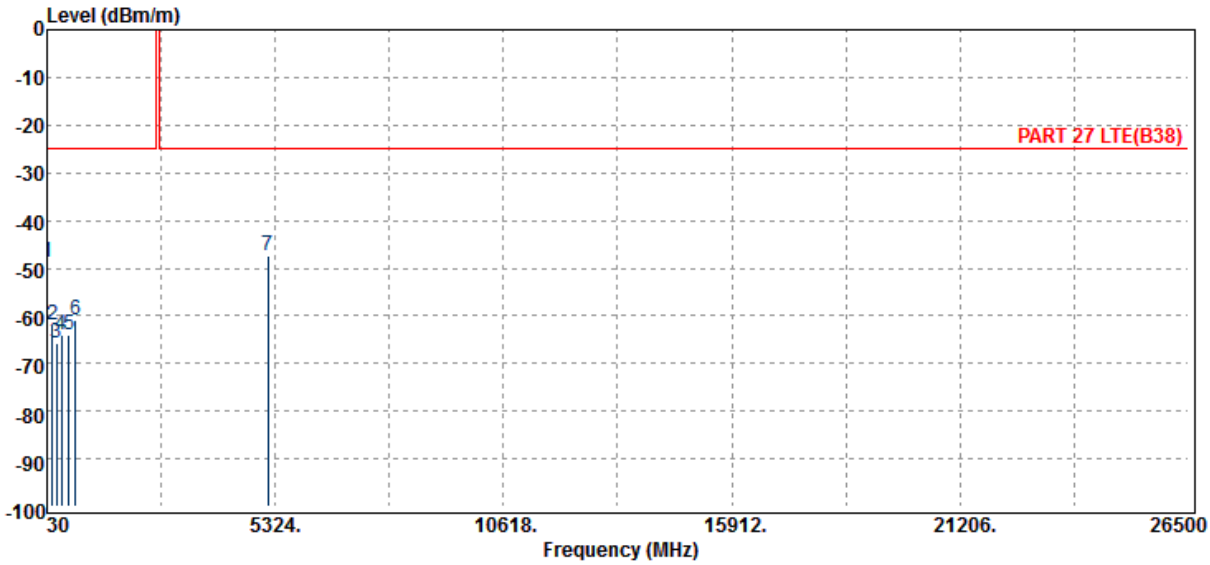
Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2577.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.72	-33.56	-14.58	-0.58	-25.00	-23.72
162.89	-62.03	-59.67	-1.06	-1.31	-25.00	-37.03
251.16	-65.89	-67.75	3.55	-1.70	-25.00	-40.89
359.80	-64.09	-65.86	3.83	-2.06	-25.00	-39.09
537.31	-63.93	-65.86	4.00	-2.07	-25.00	-38.93
694.45	-61.00	-62.09	3.69	-2.61	-25.00	-36.00
5155.00	-47.31	-51.88	12.69	-8.12	-25.00	-22.31

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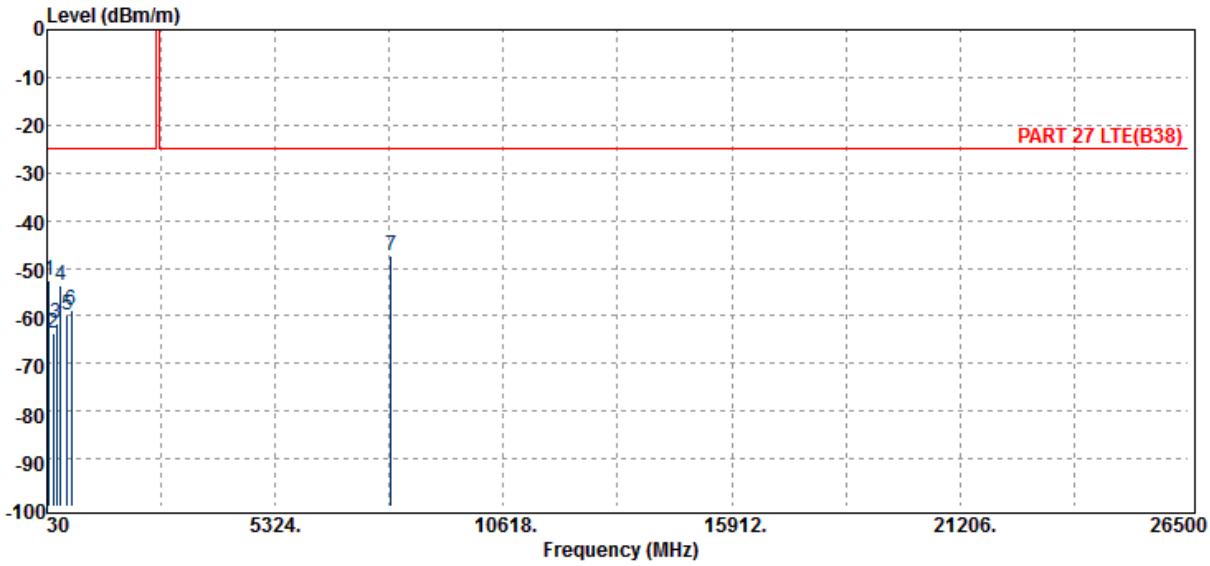
Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2595 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-52.61	-50.25	-1.37	-0.99	-25.00	-27.61
167.74	-63.77	-61.70	-0.76	-1.32	-25.00	-38.77
246.31	-61.62	-63.44	3.51	-1.69	-25.00	-36.62
337.49	-53.64	-55.47	3.80	-1.96	-25.00	-28.64
502.39	-59.98	-61.77	4.05	-2.26	-25.00	-34.98
595.51	-58.97	-60.35	3.57	-2.19	-25.00	-33.97
8000.00	-47.42	-47.49	10.50	-10.43	-25.00	-22.42

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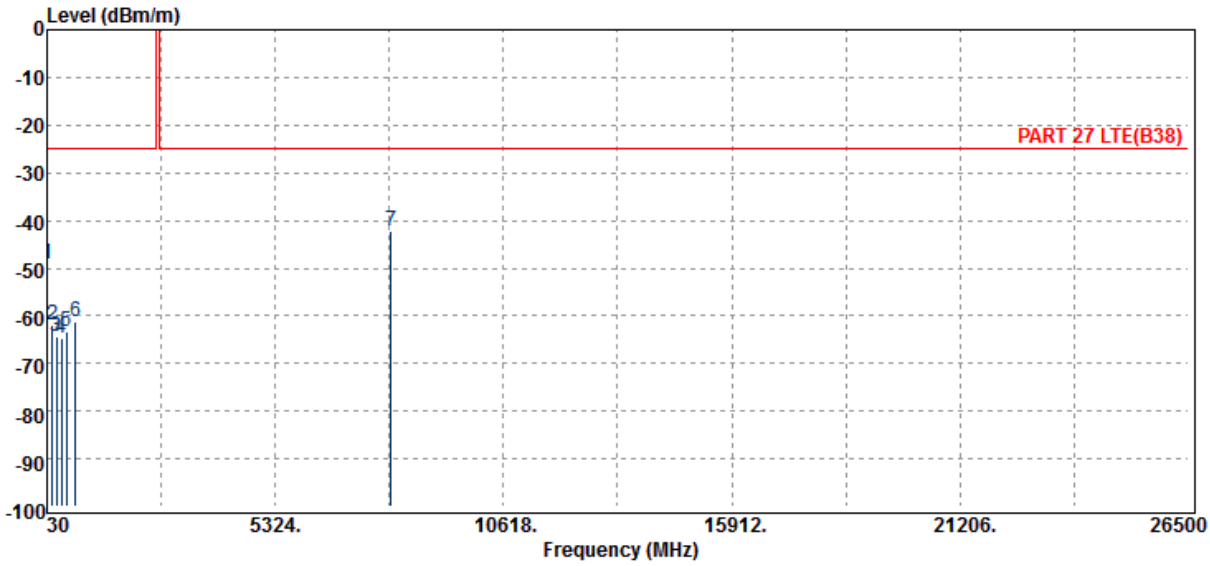
Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2595 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-49.02	-34.35	-14.08	-0.59	-25.00	-24.02
162.89	-62.02	-59.66	-1.06	-1.31	-25.00	-37.02
248.25	-64.53	-66.36	3.52	-1.69	-25.00	-39.53
366.59	-64.70	-66.44	3.81	-2.07	-25.00	-39.70
485.90	-63.36	-65.44	3.91	-1.84	-25.00	-38.36
699.30	-61.15	-62.59	3.68	-2.24	-25.00	-36.15
8000.00	-42.21	-42.28	10.50	-10.43	-25.00	-17.21

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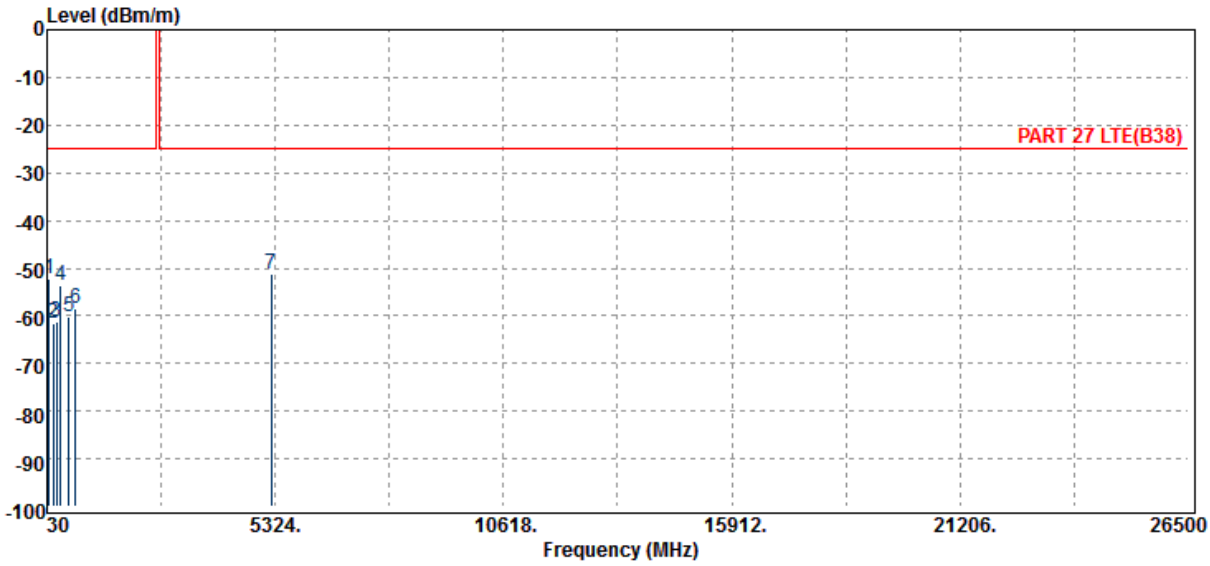
Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2612.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-52.24	-49.54	-1.73	-0.98	-25.00	-27.24
170.65	-61.59	-59.74	-0.51	-1.33	-25.00	-36.59
248.25	-61.38	-63.21	3.52	-1.69	-25.00	-36.38
342.34	-53.76	-55.59	3.82	-1.99	-25.00	-28.76
546.04	-60.37	-62.55	3.99	-1.81	-25.00	-35.37
697.36	-58.58	-59.88	3.68	-2.38	-25.00	-33.58
5225.00	-51.09	-55.64	12.78	-8.23	-25.00	-26.09

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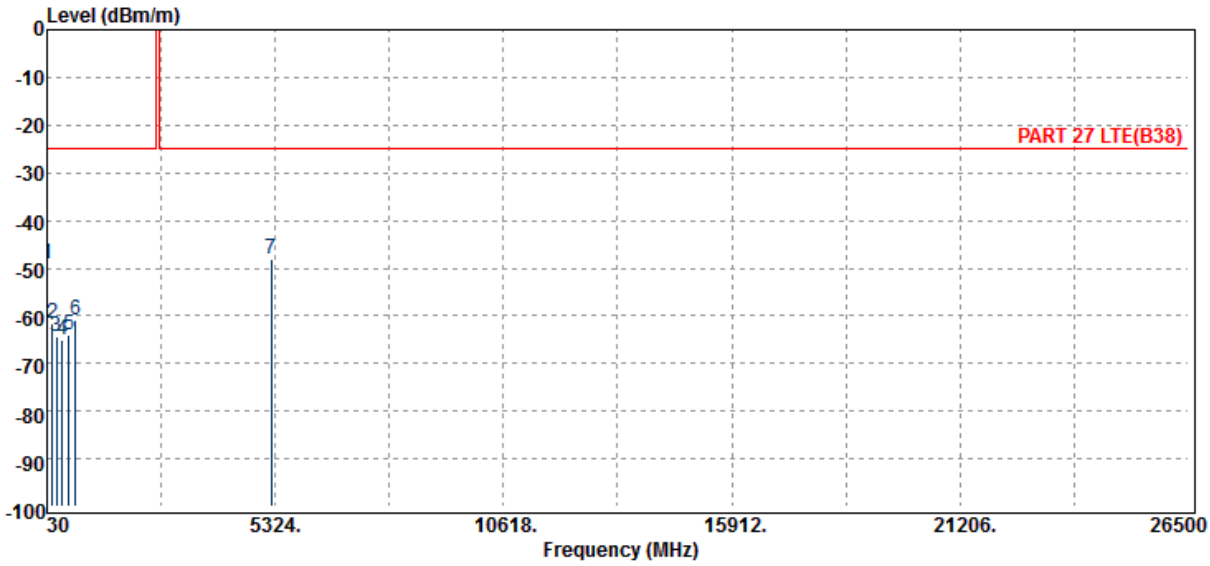
Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2612.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.06	-33.90	-14.58	-0.58	-25.00	-24.06
162.89	-61.57	-59.20	-1.06	-1.31	-25.00	-36.57
248.25	-64.51	-66.34	3.52	-1.69	-25.00	-39.51
376.29	-65.00	-66.75	3.78	-2.03	-25.00	-40.00
546.04	-64.08	-66.26	3.99	-1.81	-25.00	-39.08
696.39	-60.79	-62.02	3.69	-2.46	-25.00	-35.79
5225.00	-48.12	-52.67	12.78	-8.23	-25.00	-23.12

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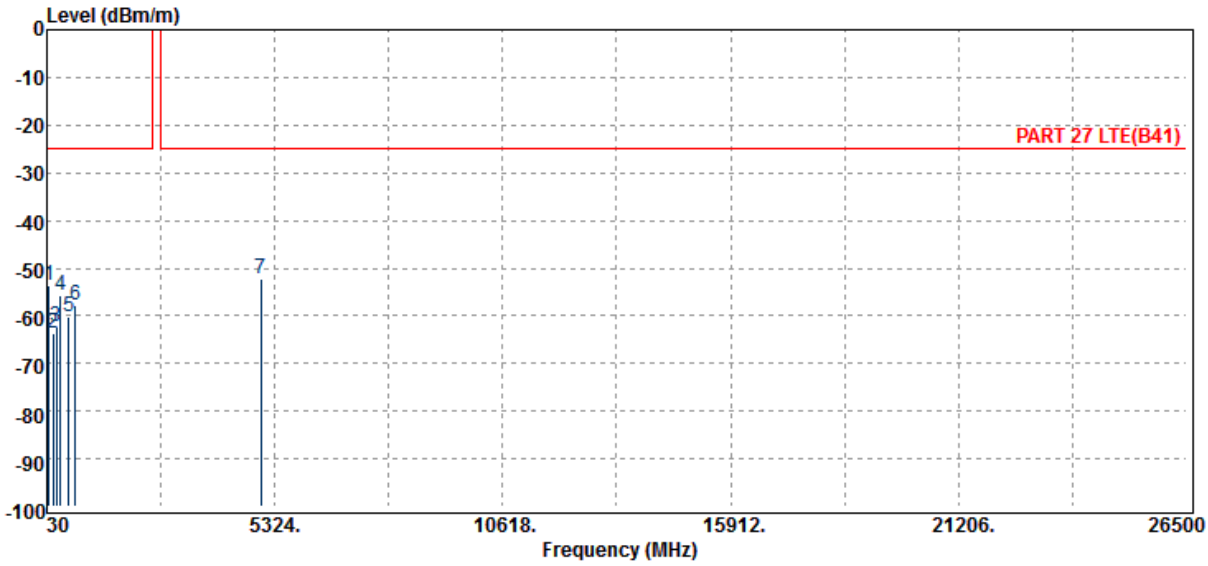
Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	-53.53	-50.82	-1.73	-0.98	-25.00	-28.53
168.71	-63.60	-61.58	-0.70	-1.33	-25.00	-38.60
251.16	-62.29	-64.14	3.55	-1.70	-25.00	-37.29
337.49	-55.60	-57.43	3.80	-1.96	-25.00	-30.60
539.25	-60.21	-62.22	4.00	-1.99	-25.00	-35.21
691.54	-57.67	-58.54	3.70	-2.83	-25.00	-32.67
5007.00	-52.42	-56.95	12.51	-7.98	-25.00	-27.42

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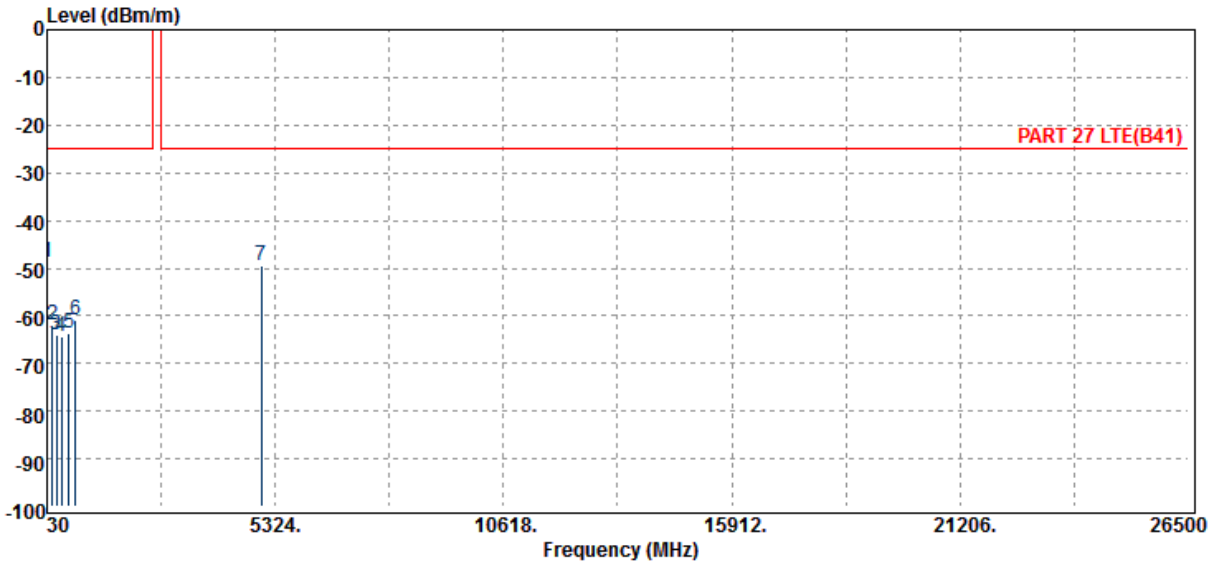
Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.84	-33.68	-14.58	-0.58	-25.00	-23.84
162.89	-61.93	-59.56	-1.06	-1.31	-25.00	-36.93
248.25	-63.86	-65.69	3.52	-1.69	-25.00	-38.86
371.44	-64.47	-66.21	3.79	-2.05	-25.00	-39.47
547.01	-63.67	-65.79	3.98	-1.86	-25.00	-38.67
694.45	-60.92	-62.00	3.69	-2.61	-25.00	-35.92
5007.00	-49.60	-54.14	12.51	-7.98	-25.00	-24.60

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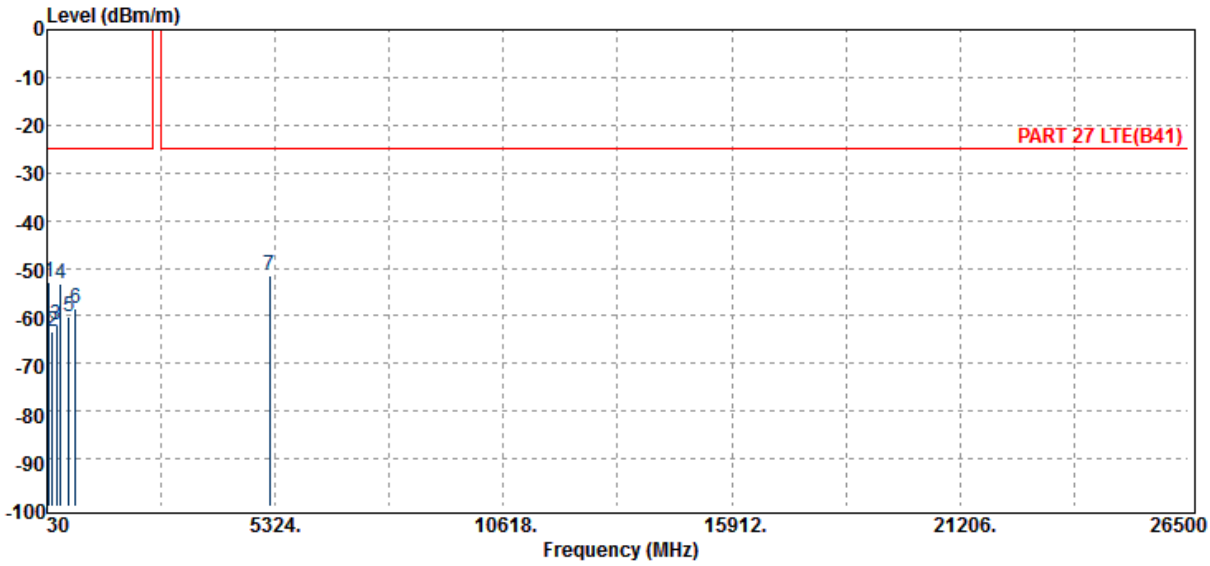
Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2593 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
80.44	-52.96	-49.72	-2.28	-0.96	-25.00	-27.96
160.95	-63.31	-60.82	-1.18	-1.30	-25.00	-38.31
251.16	-61.85	-63.70	3.55	-1.70	-25.00	-36.85
345.25	-53.37	-55.20	3.83	-2.01	-25.00	-28.37
546.04	-60.29	-62.47	3.99	-1.81	-25.00	-35.29
694.45	-58.58	-59.67	3.69	-2.61	-25.00	-33.58
5186.00	-51.59	-56.15	12.73	-8.18	-25.00	-26.59

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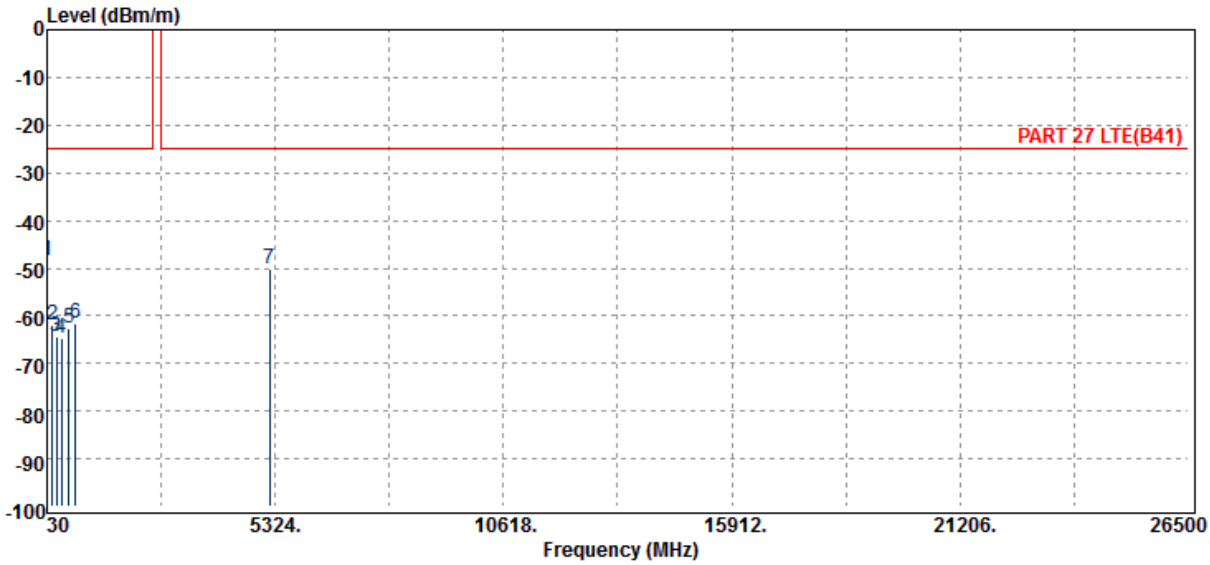
Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2593 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.35	-33.19	-14.58	-0.58	-25.00	-23.35
160.95	-61.96	-59.47	-1.18	-1.30	-25.00	-36.96
246.31	-64.47	-66.29	3.51	-1.69	-25.00	-39.47
369.50	-64.84	-66.58	3.80	-2.06	-25.00	-39.84
541.19	-62.51	-64.60	3.99	-1.91	-25.00	-37.51
700.27	-61.49	-63.00	3.67	-2.16	-25.00	-36.49
5186.00	-50.06	-54.62	12.73	-8.18	-25.00	-25.06

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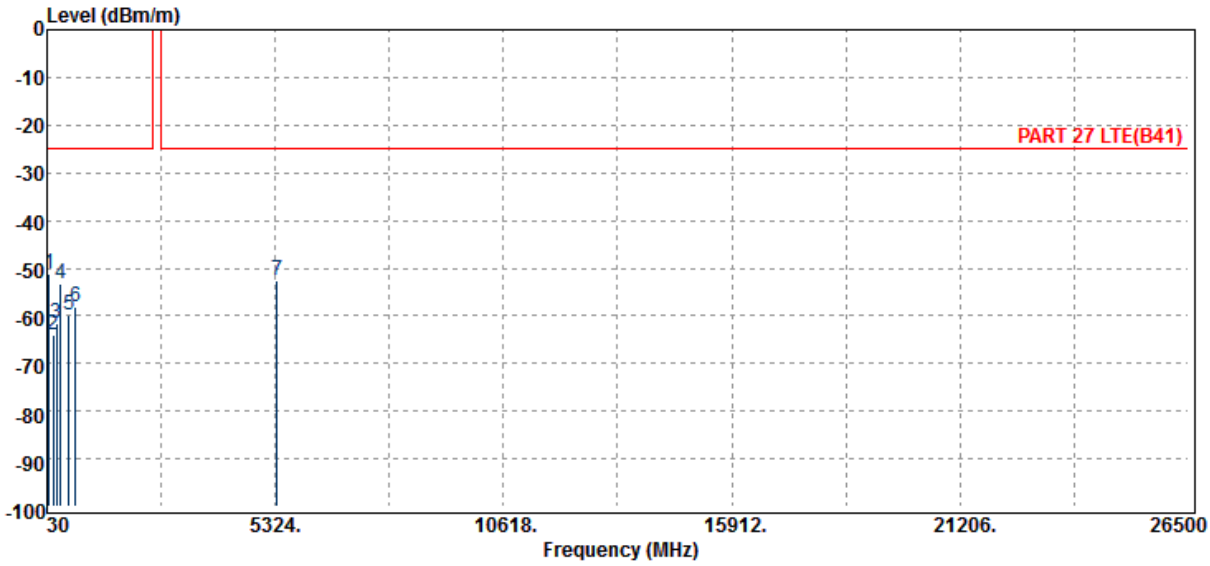
Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2682.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-51.08	-48.02	-2.09	-0.97	-25.00	-26.08
166.77	-63.96	-61.83	-0.82	-1.32	-25.00	-38.96
248.25	-61.76	-63.59	3.52	-1.69	-25.00	-36.76
348.16	-53.30	-55.12	3.85	-2.02	-25.00	-28.30
545.07	-60.00	-62.23	3.99	-1.76	-25.00	-35.00
684.75	-58.09	-58.49	3.72	-3.32	-25.00	-33.09
5365.00	-52.59	-57.16	12.94	-8.37	-25.00	-27.59

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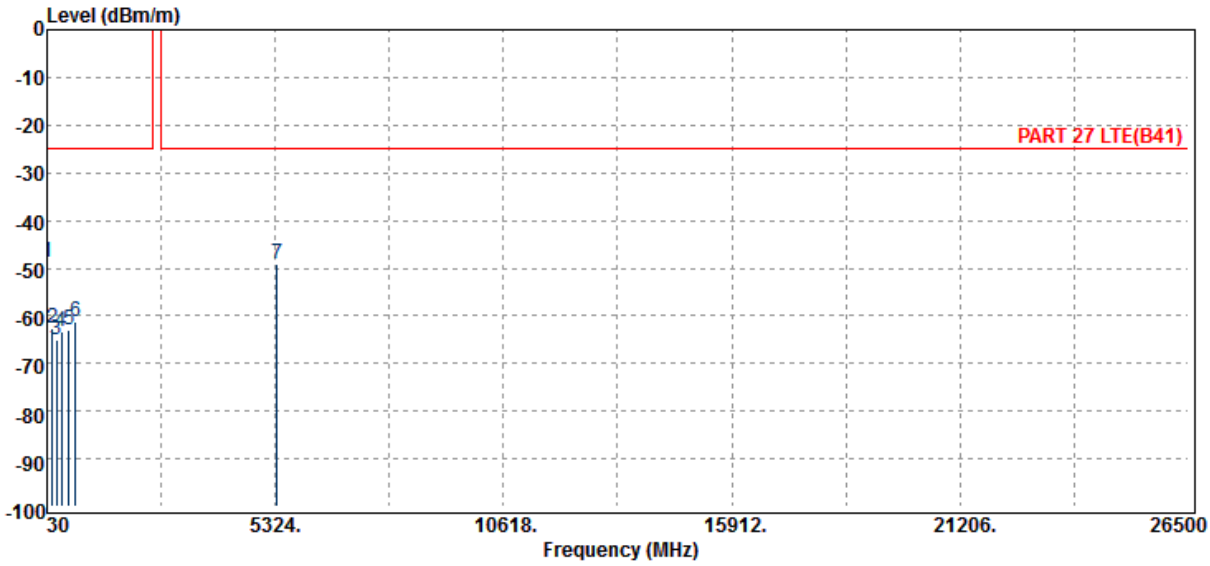
Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2682.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.75	-33.59	-14.58	-0.58	-25.00	-23.75
163.86	-62.59	-60.28	-1.00	-1.31	-25.00	-37.59
251.16	-65.08	-66.93	3.55	-1.70	-25.00	-40.08
362.71	-63.41	-65.16	3.82	-2.07	-25.00	-38.41
539.25	-62.85	-64.86	4.00	-1.99	-25.00	-37.85
700.27	-61.31	-62.83	3.67	-2.16	-25.00	-36.31
5365.00	-49.16	-53.73	12.94	-8.37	-25.00	-24.16

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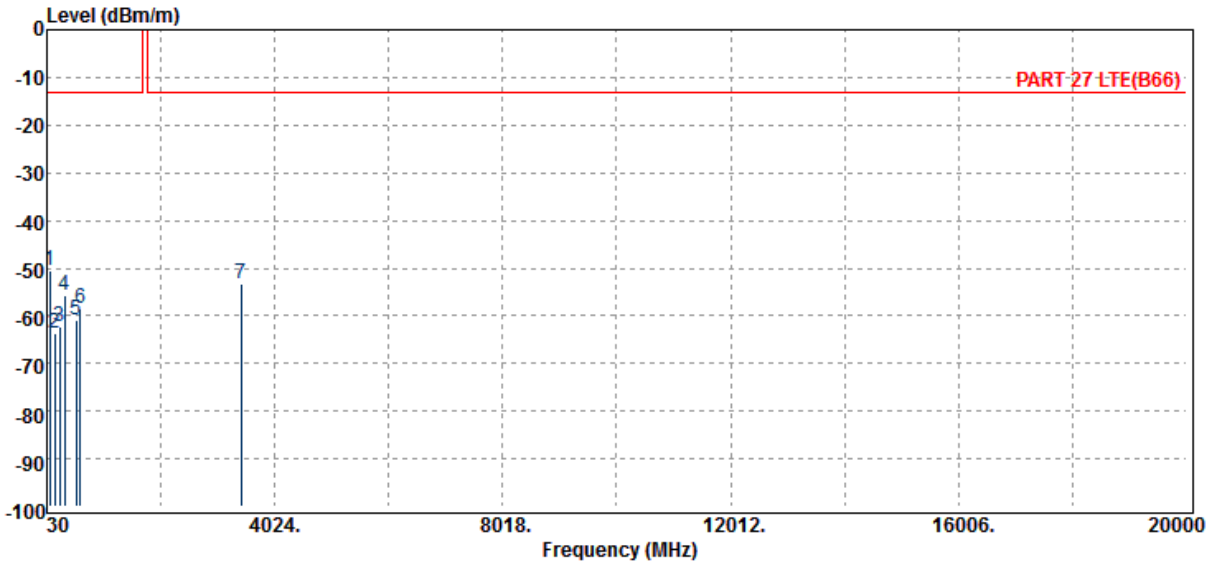
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
81.41	-50.61	-47.55	-2.09	-0.97	-13.00	-37.61
168.71	-63.74	-61.72	-0.70	-1.33	-13.00	-50.74
248.25	-62.19	-64.02	3.52	-1.69	-13.00	-49.19
340.40	-55.70	-57.53	3.81	-1.98	-13.00	-42.70
546.04	-60.90	-63.08	3.99	-1.81	-13.00	-47.90
610.06	-58.52	-59.81	3.60	-2.31	-13.00	-45.52
3430.00	-53.12	-58.82	12.24	-6.54	-13.00	-40.12

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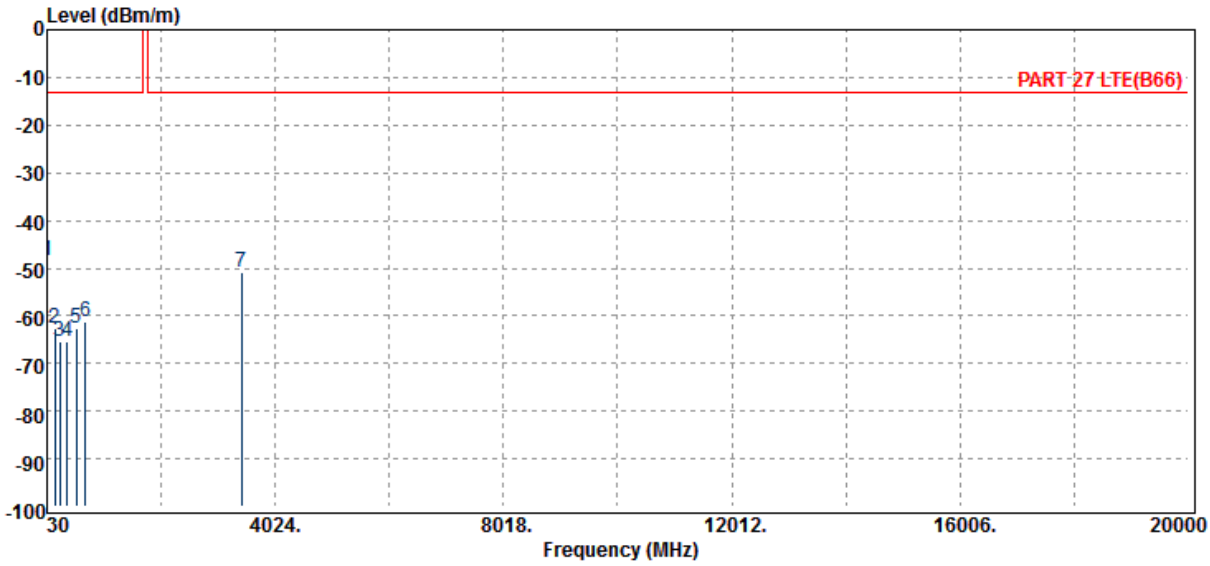
Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.49	-33.33	-14.58	-0.58	-13.00	-35.49
162.89	-62.52	-60.16	-1.06	-1.31	-13.00	-49.52
251.16	-65.23	-67.08	3.55	-1.70	-13.00	-52.23
382.11	-65.26	-67.00	3.76	-2.02	-13.00	-52.26
536.34	-62.51	-64.40	4.00	-2.11	-13.00	-49.51
697.36	-61.15	-62.45	3.68	-2.38	-13.00	-48.15
3430.00	-51.03	-56.73	12.24	-6.54	-13.00	-38.03

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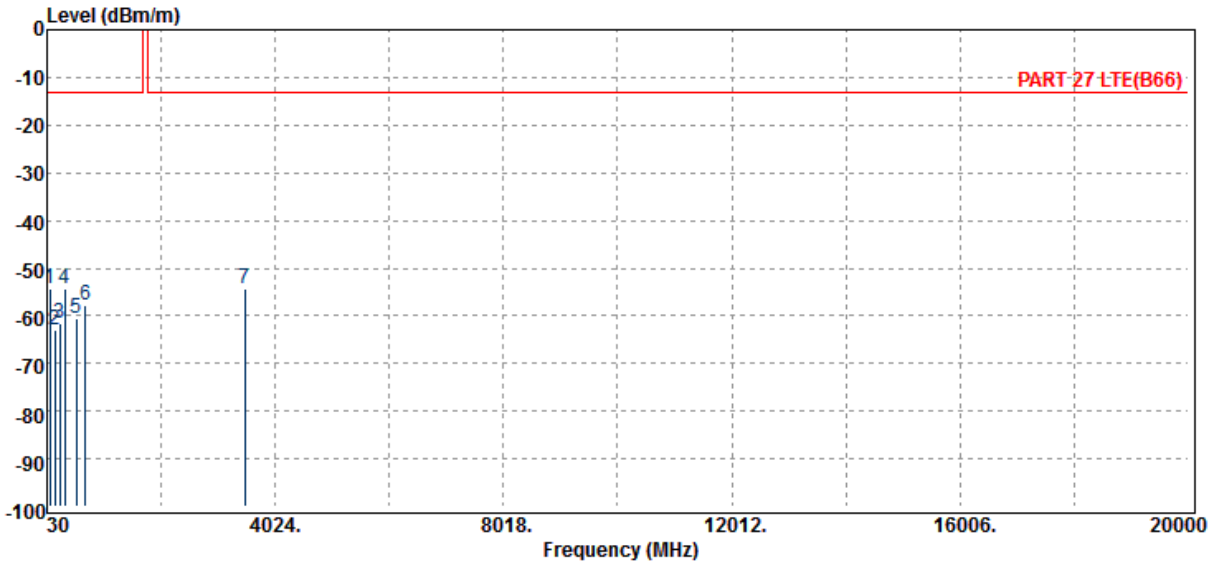
Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1745 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
80.44	-54.35	-51.11	-2.28	-0.96	-13.00	-41.35
173.56	-63.06	-61.67	-0.04	-1.35	-13.00	-50.06
248.25	-61.46	-63.29	3.52	-1.69	-13.00	-48.46
333.61	-54.38	-56.22	3.78	-1.93	-13.00	-41.38
539.25	-60.55	-62.56	4.00	-1.99	-13.00	-47.55
696.39	-57.64	-58.86	3.69	-2.46	-13.00	-44.64
3490.00	-54.18	-59.98	12.38	-6.58	-13.00	-41.18

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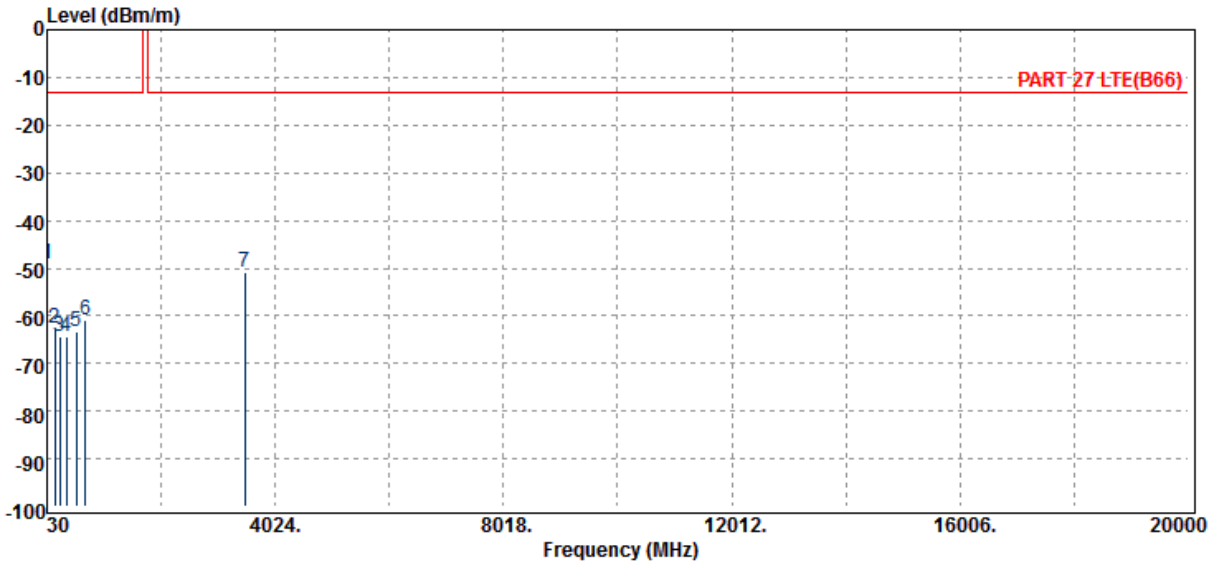
Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1745 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.02	-33.86	-14.58	-0.58	-13.00	-36.02
162.89	-62.49	-60.12	-1.06	-1.31	-13.00	-49.49
248.25	-64.34	-66.17	3.52	-1.69	-13.00	-51.34
371.44	-64.21	-65.95	3.79	-2.05	-13.00	-51.21
546.04	-63.47	-65.65	3.99	-1.81	-13.00	-50.47
696.39	-60.89	-62.12	3.69	-2.46	-13.00	-47.89
3490.00	-50.75	-56.55	12.38	-6.58	-13.00	-37.75

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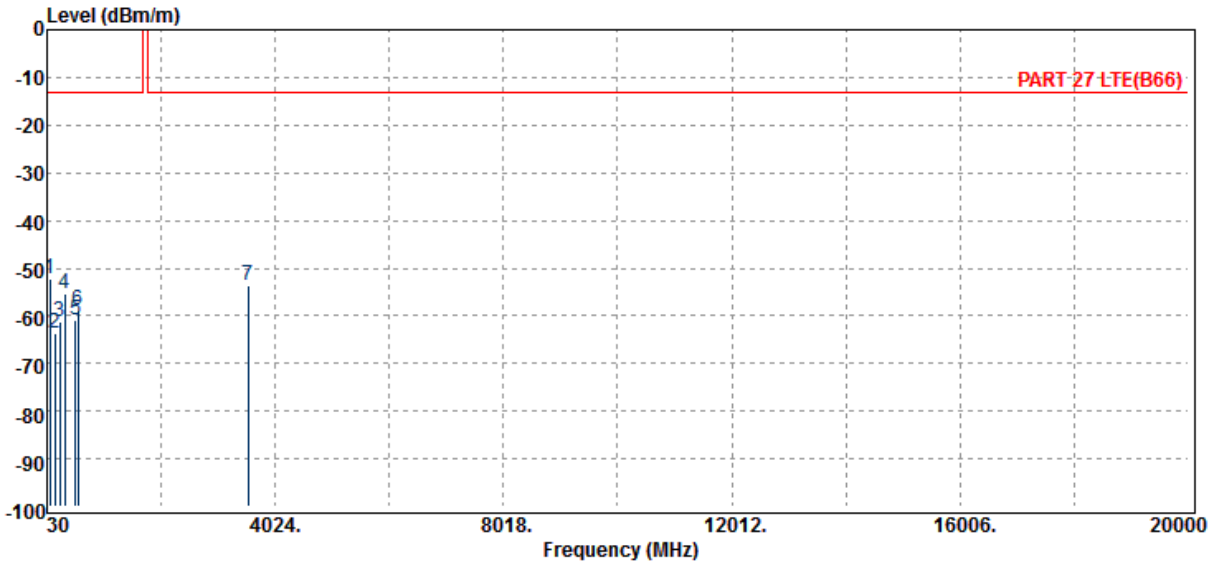
Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1775 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	-52.22	-49.85	-1.37	-0.99	-13.00	-39.22
167.74	-63.77	-61.69	-0.76	-1.32	-13.00	-50.77
248.25	-61.30	-63.13	3.52	-1.69	-13.00	-48.30
333.61	-55.19	-57.04	3.78	-1.93	-13.00	-42.19
529.55	-60.88	-62.50	4.01	-2.39	-13.00	-47.88
578.05	-58.65	-59.93	3.73	-2.45	-13.00	-45.65
3550.00	-53.46	-59.16	12.44	-6.75	-13.00	-40.46

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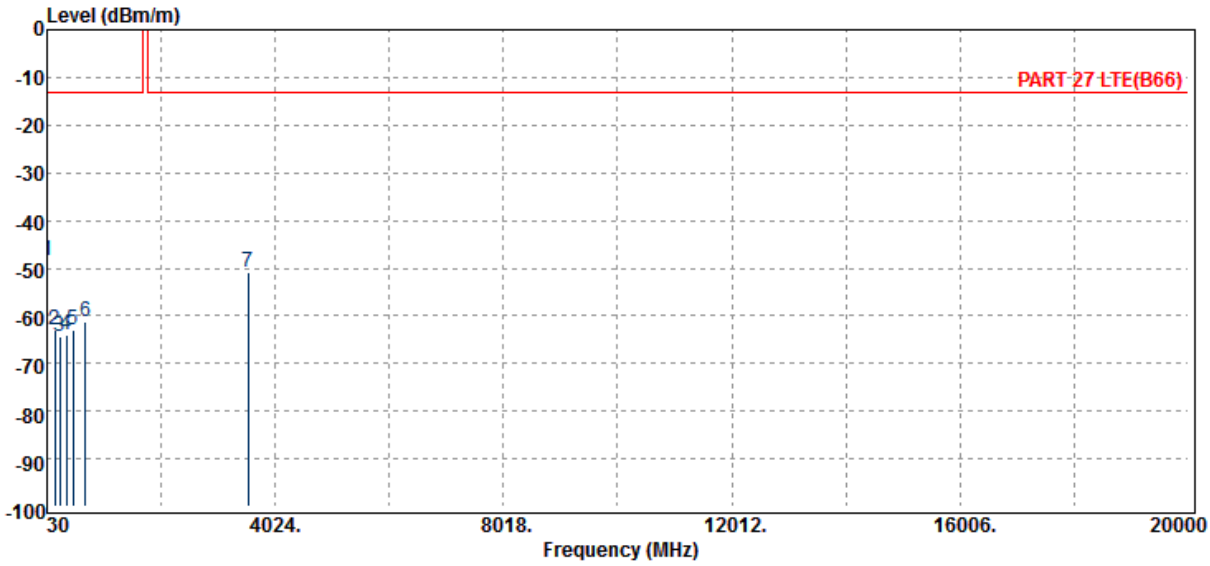
Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1775 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:TB H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.41	-33.25	-14.58	-0.58	-13.00	-35.41
162.89	-62.98	-60.62	-1.06	-1.31	-13.00	-49.98
251.16	-64.46	-66.32	3.55	-1.70	-13.00	-51.46
376.29	-63.91	-65.65	3.78	-2.03	-13.00	-50.91
488.81	-63.07	-65.10	3.94	-1.91	-13.00	-50.07
700.27	-61.27	-62.78	3.67	-2.16	-13.00	-48.27
3550.00	-50.70	-56.39	12.44	-6.75	-13.00	-37.70

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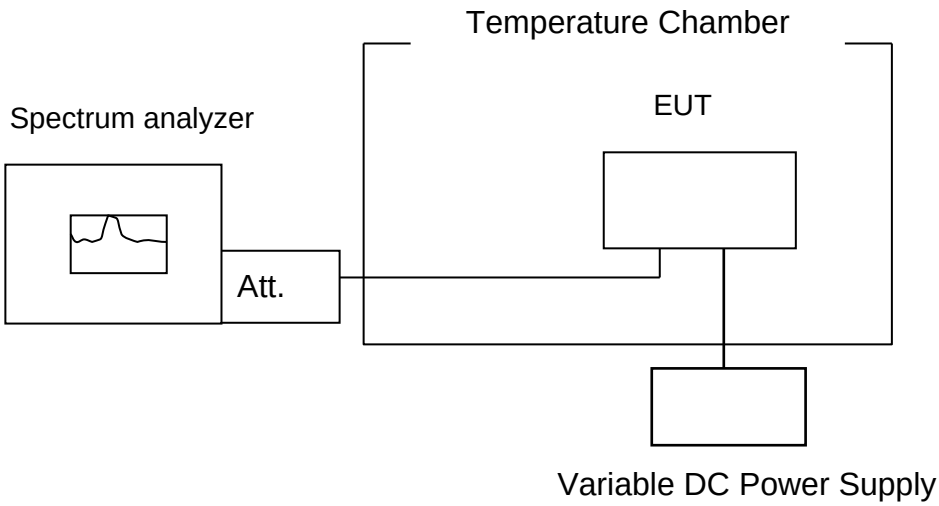
10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

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

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3. Measurement Procedure

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

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communica-tion Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF229	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF230	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF231	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

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10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
134	20	1880.00007	70.00000005	4700
120	20	1879.9999	-99.99999997	4700
108	20	1880.00007	70.00000005	4700
FREQUENCY ERROR vs. Temp.				
120	50	1880.00008	80.00000003	4700
120	40	1879.99997	-29.99999992	4700
120	30	1879.99996	-39.9999999	4700
120	20	1880.00004	39.9999999	4700
120	10	1879.99997	-29.99999992	4700
120	0	1880.00002	19.99999995	4700
120	-10	1880.00004	39.9999999	4700
120	-20	1880.0001	99.99999997	4700
120	-30	1879.99993	-70.00000005	4700

WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
134	20	1732.59998	-19.99999995	4331
120	20	1732.59999	-9.999999975	4331
108	20	1732.5999	-99.99999997	4331
FREQUENCY ERROR vs. Temp.				
120	50	1732.59992	-79.9999998	4331
120	40	1732.59995	-49.99999987	4331
120	30	1732.59994	-59.99999985	4331
120	20	1732.59992	-79.9999998	4331
120	10	1732.59997	-29.99999992	4331
120	0	1732.59995	-49.99999987	4331
120	-10	1732.600001	1.000000111	4331
120	-20	1732.59992	-79.9999998	4331
120	-30	1732.59997	-29.99999992	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
134	20	836.59994	-60.00000008	2091
120	20	836.59995	-49.99999999	2091
108	20	836.60029	289.9999999	2091
FREQUENCY ERROR vs. Temp.				
120	50	836.60002	19.99999995	2091
120	40	836.60016	159.9999999	2091
120	30	836.59997	-30.00000004	2091
120	20	836.59992	-80.00000003	2091
120	10	836.60011	109.9999999	2091
120	0	836.6003	299.9999999	2091
120	-10	836.60013	130	2091
120	-20	836.60043	429.9999999	2091
120	-30	836.60017	170	2091

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Reference Freq.:	LTE B2 Mid Channel	1880	MHz 20M QPSK CH 18900	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	1880.000003	3.0000001	4700
120	25	1880.000000	0	4700
108	25	1880.000008	8	4700
Freq. ERROR vs. Temp.				
120	-30	1879.999991	-9	4700
120	-20	1880.000004	4	4700
120	-10	1880.000006	6	4700
120	0	1880.000004	4	4700
120	10	1880.000008	8	4700
120	20	1880.000008	8	4700
120	30	1880.000004	4	4700
120	40	1880.000009	9.0000001	4700
120	50	1879.999993	-7	4700

Reference Freq.:	LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	1732.500010	10	4331
120	25	1732.499991	-9	4331
108	25	1732.499995	-5	4331
Freq. ERROR vs. Temp.				
120	-30	1732.499995	-5	4331
120	-20	1732.500007	7.0000001	4331
120	-10	1732.500006	6	4331
120	0	1732.500009	9.0000001	4331
120	10	1732.500001	1.0000001	4331
120	20	1732.499993	-7	4331
120	30	1732.500007	7.0000001	4331
120	40	1732.500009	9.0000001	4331
120	50	1732.500004	4	4331

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Reference Freq.:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	836.499997	-3	2091
120	25	836.500009	9	2091
108	25	836.500003	3	2091
Freq. ERROR vs. Temp.				
120	-30	836.500005	5	2091
120	-20	836.500007	7	2091
120	-10	836.499996	-4	2091
120	0	836.499992	-8	2091
120	10	836.499990	-10	2091
120	20	836.500004	4	2091
120	30	836.499999	-1	2091
120	40	836.500006	6	2091
120	50	836.499999	-1	2091

Reference Freq.:	LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	707.499990	-10	1769
120	25	707.499998	-2	1769
108	25	707.499997	-3	1769
Freq. ERROR vs. Temp.				
120	-30	707.500008	8	1769
120	-20	707.500006	6	1769
120	-10	707.499994	-6	1769
120	0	707.499997	-3	1769
120	10	707.500001	1	1769
120	20	707.499994	-6	1769
120	30	707.499997	-3	1769
120	40	707.499990	-10	1769
120	50	707.499992	-8	1769

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Reference Freq.:	LTE B13 Mid Channel	782	MHz 10M QPSK CH 23230	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	782.000008	8	1955
120	25	782.000006	6	1955
108	25	782.000010	10	1955
Freq. ERROR vs. Temp.				
120	-30	782.000008	8	1955
120	-20	781.999993	-7	1955
120	-10	781.999994	-6	1955
120	0	782.000003	3	1955
120	10	782.000002	2	1955
120	20	782.000004	4	1955
120	30	781.999991	-9	1955
120	40	781.999990	-10	1955
120	50	782.000009	9	1955

Reference Freq.:	LTE B14 Mid Channel	793	MHz 10M QPSK CH 23330	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	792.999994	-6	1983
120	25	793.000002	2	1983
108	25	792.999994	-6	1983
Freq. ERROR vs. Temp.				
120	-30	793.000003	3	1983
120	-20	793.000006	6	1983
120	-10	793.000006	6	1983
120	0	792.999993	-7	1983
120	10	793.000006	6	1983
120	20	793.000004	4	1983
120	30	793.000009	9	1983
120	40	792.999990	-10	1983
120	50	793.000008	8	1983

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Reference Freq.:	LTE B17 Mid Channel	710	MHz 10M QPSK CH 23790	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	710.000003	3	1775
120	25	710.000010	10	1775
108	25	709.999996	-4	1775
Freq. ERROR vs. Temp.				
120	-30	709.999998	-2	1775
120	-20	710.000009	9	1775
120	-10	709.999996	-4	1775
120	0	709.999995	-5	1775
120	10	710.000009	9	1775
120	20	710.000007	7	1775
120	30	709.999996	-4	1775
120	40	709.999999	-1	1775
120	50	710.000002	2	1775

Reference Freq.:	LTE B25 Mid Channel	1882.5	MHz 20M QPSK CH 26365	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	1882.499994	-6	4700
120	25	1882.500002	2	4700
108	25	1882.499992	-8	4700
Freq. ERROR vs. Temp.				
120	-30	1882.499998	1.172E+09	4700
120	-20	1882.500004	1.173E+09	4700
120	-10	1882.499996	1.172E+09	4700
120	0	1882.500001	1.173E+09	4700
120	10	1882.500008	1.173E+09	4700
120	20	1882.500008	1.173E+09	4700
120	30	1882.499990	1.172E+09	4700
120	40	1882.499991	1.172E+09	4700
120	50	1882.500007	1.173E+09	4700

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Reference Freq.:	LTE B26 Mid Channel	831.5	MHz 15M QPSK CH 26865	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	831.500009	9	2091
120	25	831.499997	-3	2091
108	25	831.500001	1	2091
Freq. ERROR vs. Temp.				
120	-30	831.499998	-2	2091
120	-20	831.499995	-5	2091
120	-10	831.500007	7	2091
120	0	831.499994	-6	2091
120	10	831.500009	9	2091
120	20	831.500004	4	2091
120	30	831.500010	10	2091
120	40	831.500010	10	2091
120	50	831.500004	4	2091

Reference Freq.:	Part 90 LTE B26 Mid Channel	819	MHz 10M QPSK CH 26740	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
134	25	818.999997	-3	2048
120	25	819.000003	3	2048
108	25	819.000005	5	2048
Freq. ERROR vs. Temp.				
120	-30	819.000005	5	2048
120	-20	818.999993	-7	2048
120	-10	819.000010	10	2048
120	0	819.000009	9	2048
120	10	819.000002	2	2048
120	20	818.999992	-8	2048
120	30	819.000005	5	2048
120	40	819.000008	8	2048
120	50	818.999999	-1	2048

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Reference Freq.:	LTE B30 Mid Channel	2310	MHz 10M QPSK CH 27710	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	2309.999996	-4	6488
120	25	2310.000007	7.0000001	6488
108	25	2310.000005	4.9999999	6488
Freq. ERROR vs. Temp.				
120	-30	2309.999995	-5	6488
120	-20	2310.000003	3.0000001	6488
120	-10	2310.000003	3.0000001	6488
120	0	2309.999994	-6	6488
120	10	2309.999990	-10	6488
120	20	2310.000004	4	6488
120	30	2309.999998	-2	6488
120	40	2309.999998	-2	6488
120	50	2310.000009	8.9999999	6488

Reference Freq.:	LTE B38 Mid Channel	2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	2594.999994	-6	6488
120	25	2594.999992	-8	6488
108	25	2594.999991	-9	6488
Freq. ERROR vs. Temp.				
120	-30	2594.999991	-9	6488
120	-20	2594.999992	-8	6488
120	-10	2594.999991	-9	6488
120	0	2594.999993	-7	6488
120	10	2594.999994	-6	6488
120	20	2595.000001	0.9999999	6488
120	30	2594.999990	-10	6488
120	40	2594.999991	-9	6488
120	50	2595.000002	2.0000002	6488

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Reference Freq.:	LTE B41 Mid Channel	2593	MHz 10M QPSK CH 40620	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	2593.000003	3.0000001	6488
120	25	2592.999996	-4	6488
108	25	2592.999991	-9	6488
Freq. ERROR vs. Temp.				
120	-30	2592.999994	-6	6488
120	-20	2593.000000	0	6488
120	-10	2592.999992	-8	6488
120	0	2593.000001	0.9999999	6488
120	10	2592.999997	-3	6488
120	20	2592.999991	-9	6488
120	30	2592.999994	-6	6488
120	40	2592.999996	-4	6488
120	50	2592.999995	-5	6488

Reference Freq.:	LTE B66 Mid Channel	1745	MHz 10M QPSK CH 132322	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
134	25	1745.000002	2	6488
120	25	1744.999996	-4	6488
108	25	1744.999997	-3	6488
Freq. ERROR vs. Temp.				
120	-30	1745.000004	4	6488
120	-20	1744.999991	-9	6488
120	-10	1745.000009	9.0000001	6488
120	0	1744.999992	-8	6488
120	10	1745.000006	6	6488
120	20	1745.000004	4	6488
120	30	1745.000007	7.0000001	6488
120	40	1745.000000	0	6488
120	50	1744.999993	-7	6488

Note: The power is rated 120V dc.

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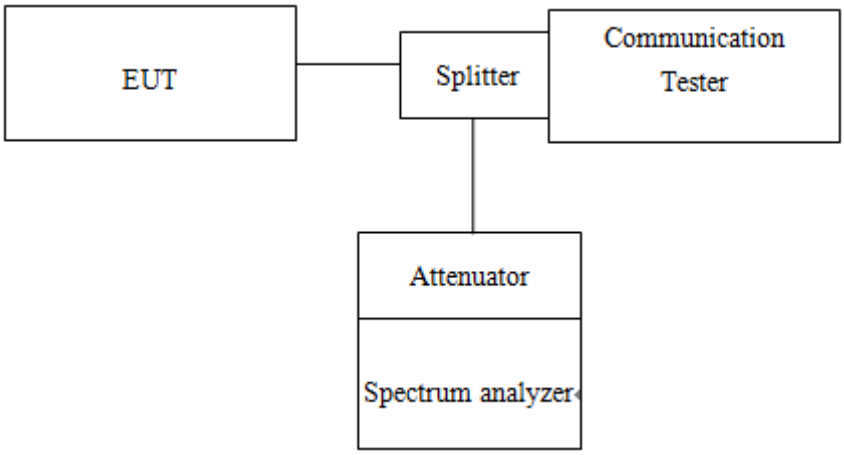
11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

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

11.2. Test SET-UP



11.3. Measurement Procedure

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

11.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communica-tion Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF229	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF230	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF231	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	1.56	1.56	1.55
1880	9400	2.87	2.89	2.92
1907.6	9538	2.02	2.04	2.02

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.79	2.77	2.78
1732.6	1413	2.84	2.61	2.83
1752.6	1513	2.91	2.89	2.89

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	1.87	13	1851.5	18615	4.21	13
1880.0	18900	4.68	13	1880.0	18900	4.82	13
1909.3	19193	1.98	13	1908.5	19185	3.06	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	4.68	13	1855.0	18650	5.34	13
1880.0	18900	5.06	13	1880.0	18900	5.42	13
1907.5	19175	3.99	13	1905.0	19150	4.87	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.00	13	1860.0	18700	6.58	13
1880.0	18900	6.10	13	1880.0	18900	6.60	13
1902.5	19125	5.95	13	1900.0	19100	6.66	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	4.91	13	1711.5	19965	5.43	13
1732.5	20175	4.90	13	1732.5	20175	5.35	13
1754.3	20393	5.62	13	1753.5	20385	5.70	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	5.30	13	1715.0	20000	5.77	13
1732.5	20175	5.28	13	1732.5	20175	5.59	13
1752.5	20375	5.47	13	1750.0	20350	5.68	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.12	13	1720.0	20050	6.64	13
1732.5	20175	6.09	13	1732.5	20175	6.57	13
1747.5	20325	6.19	13	1745.0	20300	6.66	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	4.50	13	700.5	23025	5.24	13
707.5	23095	5.25	13	707.5	23095	5.52	13
715.3	23173	4.04	13	714.5	23165	4.88	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	4.84	13	704.0	23060	5.47	13
707.5	23095	5.37	13	707.5	23095	5.59	13
713.5	23155	4.74	13	711.0	23130	5.43	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	5.35	13	782.0	23230	5.40	13
782.0	23230	5.00	13				
784.5	23255	5.10	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	5.47	13	709.0	23780	5.60	13
710.0	23790	5.26	13	710.0	23790	5.53	13
713.5	23825	4.75	13	711.0	23800	5.35	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	26047	4.07	13	1851.5	26055	4.52	13
1882.5	26365	4.81	13	1882.5	26365	4.80	13
1914.3	26683	3.31	13	1913.5	26675	4.19	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	26065	4.27	13	1855.0	26090	4.77	13
1882.5	26365	4.64	13	1882.5	26365	4.98	13
1912.5	26665	3.89	13	1910.0	26640	4.73	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	26115	5.62	13	1860.0	26140	6.47	13
1882.5	26365	5.86	13	1882.5	26365	6.74	13
1907.5	26615	5.77	13	1905.0	26590	6.62	13

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		4.85	Limit			4.85	Limit
2307.5	27685	5.02	13	2310.0	27710	5.08	13
2310.0	27710	5.13	13				
2312.5	27735	5.33	13				

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2572.5	37775	8.57	13	2575	37800	8.18	13
2595.0	38000	7.80	13	2595	38000	7.53	13
2617.5	38225	6.86	13	2615	38200	8.16	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2577.5	37825	8.94	13	2580.0	37850	9.74	13
2595.0	38000	6.83	13	2595.0	38000	9.70	13
2612.5	38175	7.19	13	2610.0	38150	9.30	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2498.5	39675	8.58	13	2501.0	39700	7.95	13
2593.0	40620	8.31	13	2593.0	40620	7.20	13
2687.5	41565	6.78	13	2685.0	41540	8.85	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2503.5	39725	8.01	13	2506.0	39750	7.33	13
2593.0	40620	7.97	13	2593.0	40620	8.30	13
2682.5	41515	9.05	13	2680.0	41490	8.91	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	5.04	13	1711.5	131987	5.37	13
1745.0	132322	5.00	13	1745.0	132322	5.39	13
1779.3	132665	5.25	13	1778.5	132657	5.53	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	5.27	13	1715.0	132022	5.63	13
1745.0	132322	5.22	13	1745.0	132322	5.59	13
1777.5	132647	5.33	13	1775.0	132622	5.72	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.06	13	1720.0	132072	6.59	13
1745.0	132322	6.06	13	1745.0	132322	6.72	13
1772.5	132597	6.07	13	1770.0	132572	6.46	13

Please refer to next page for test plots.

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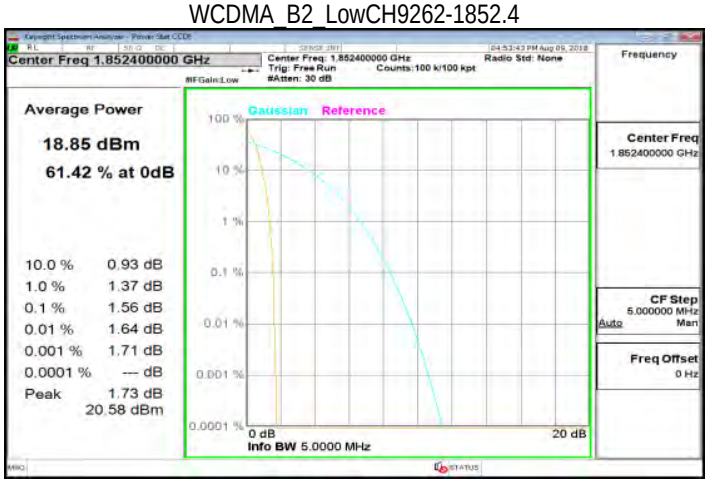

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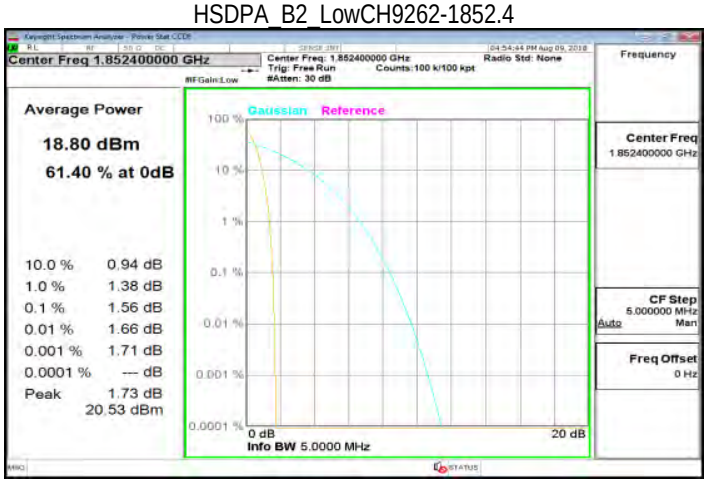

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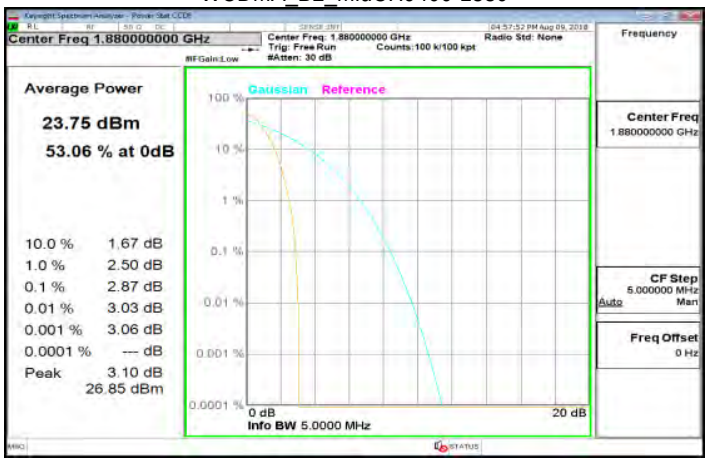

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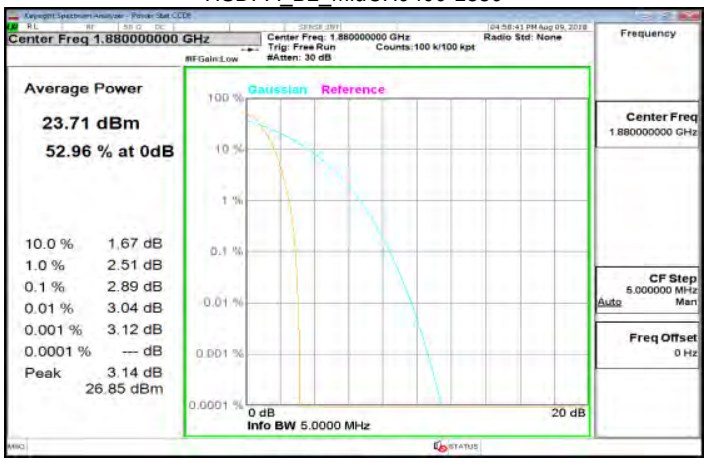

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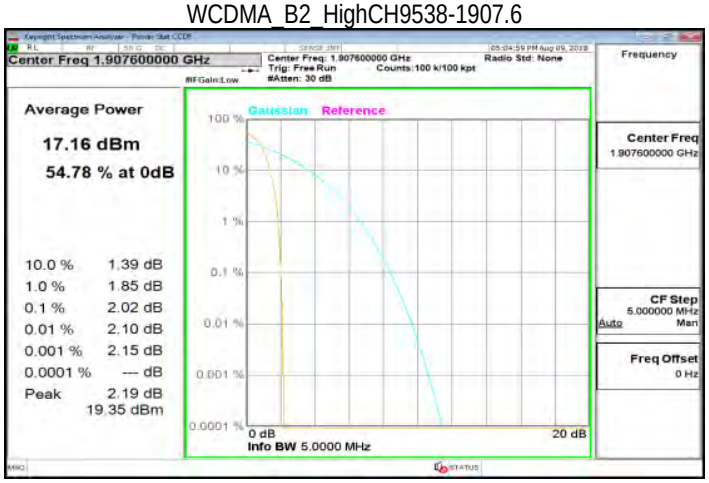

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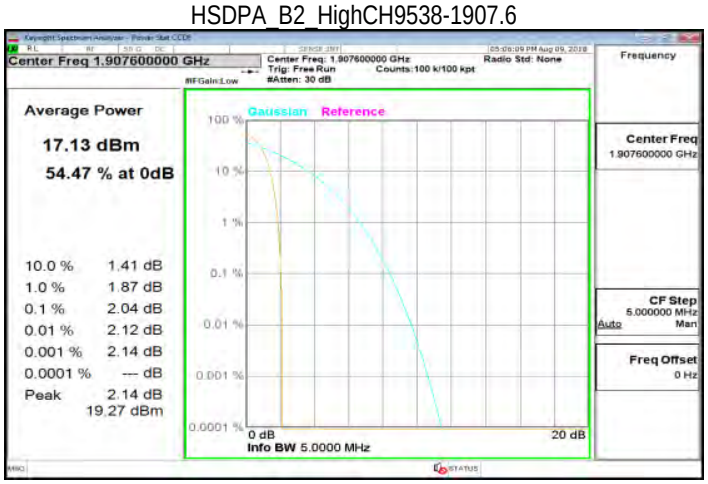

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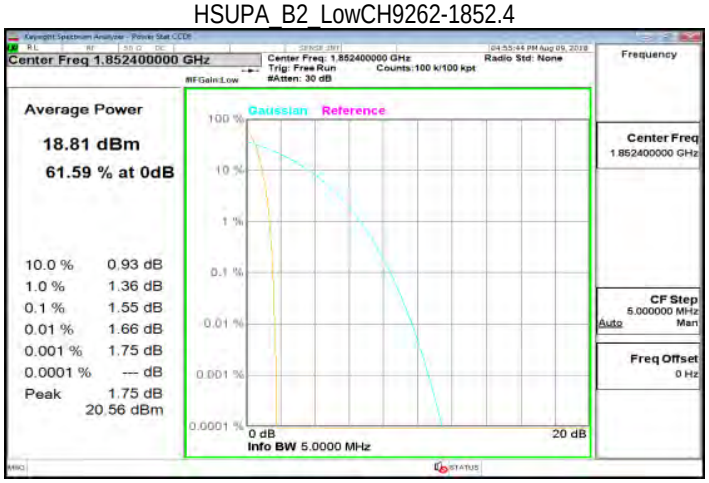
HSUPA_B2_LowCH9262-1852.4



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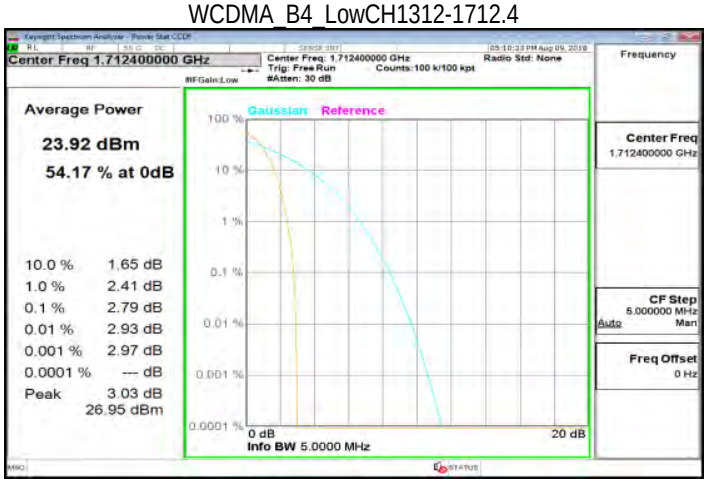

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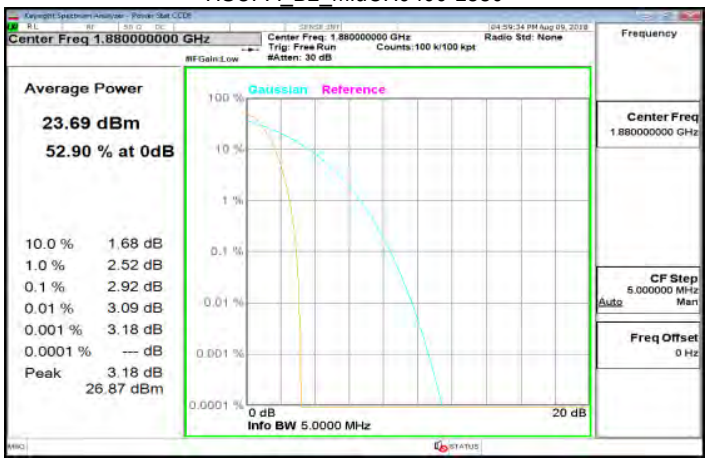

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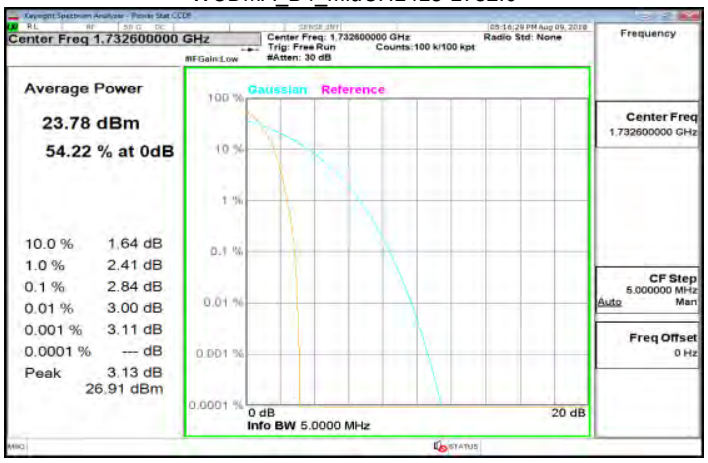

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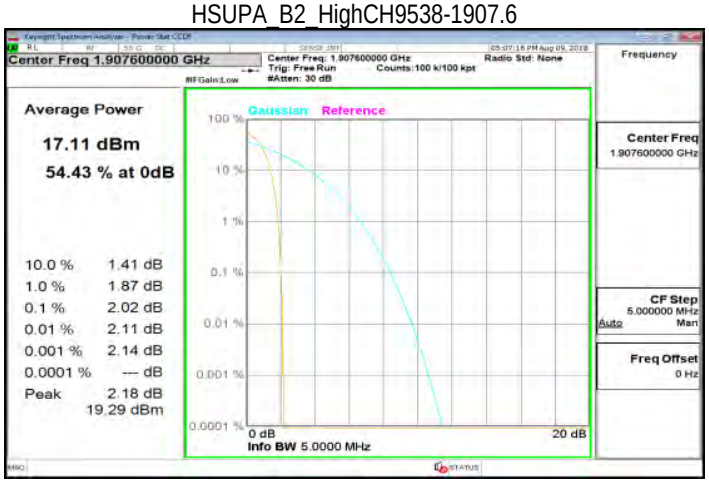

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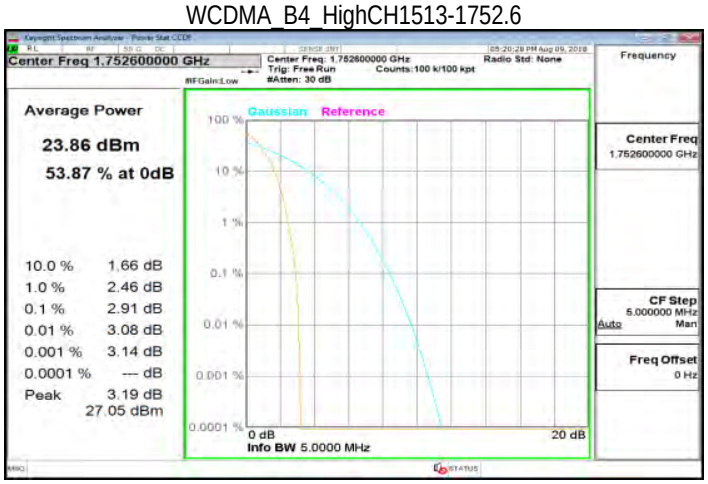

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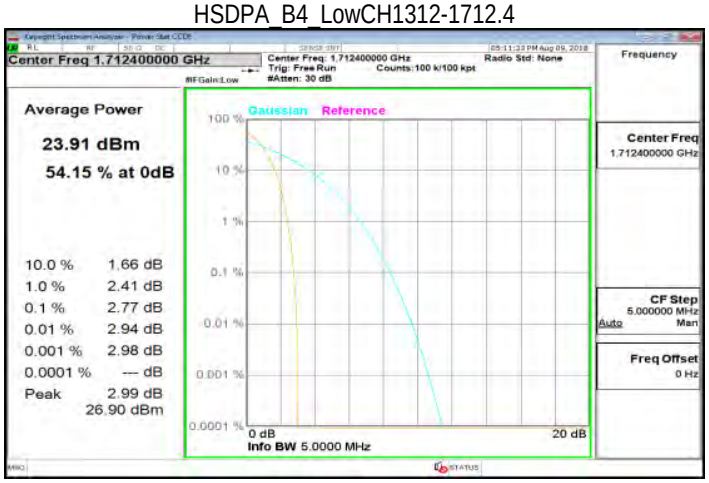
HSDPA_B4_LowCH1312-1712.4



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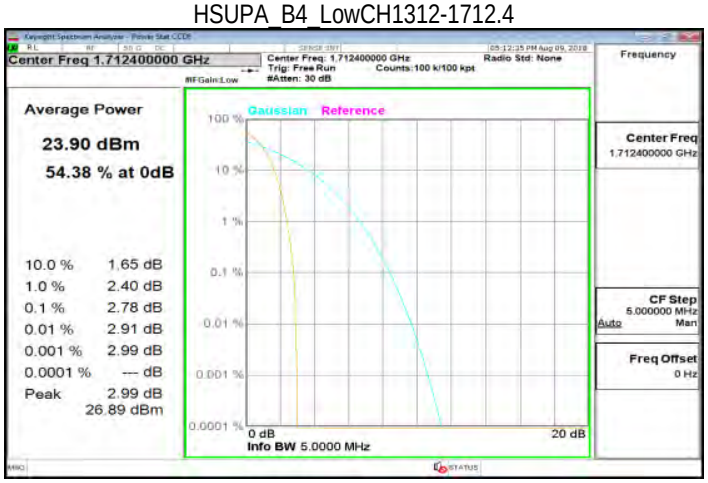
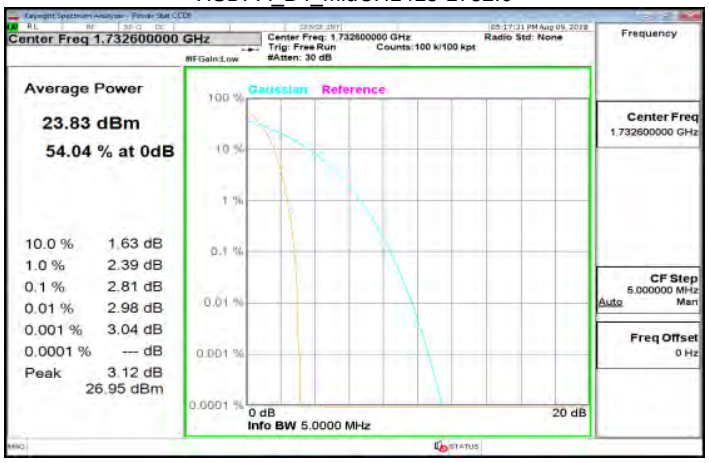


HSDPA_B4_MidCH1413-1732.6



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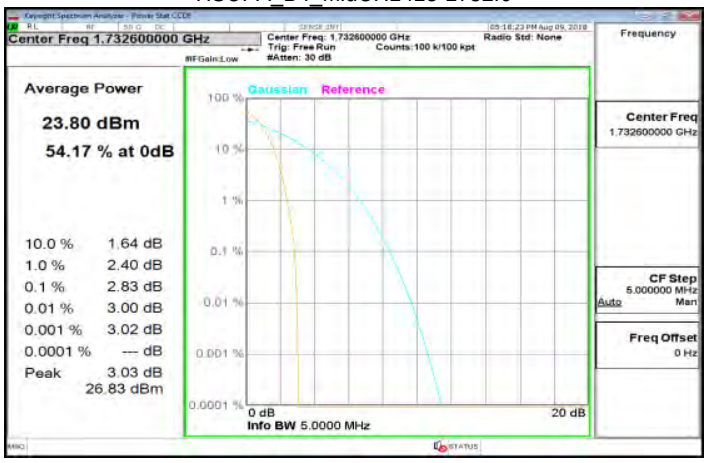

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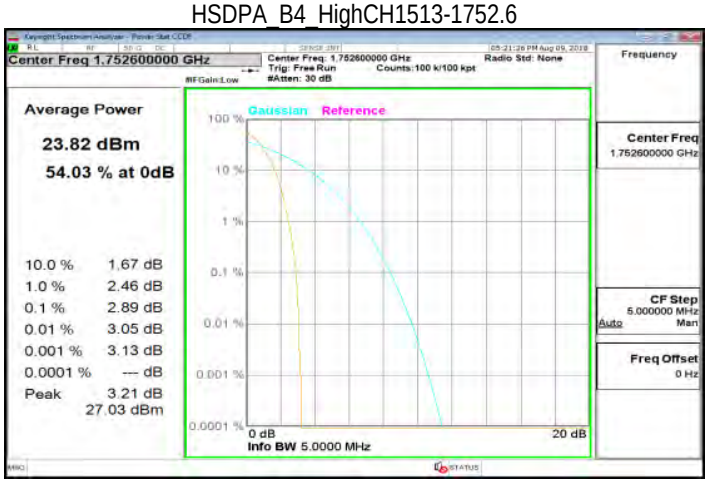

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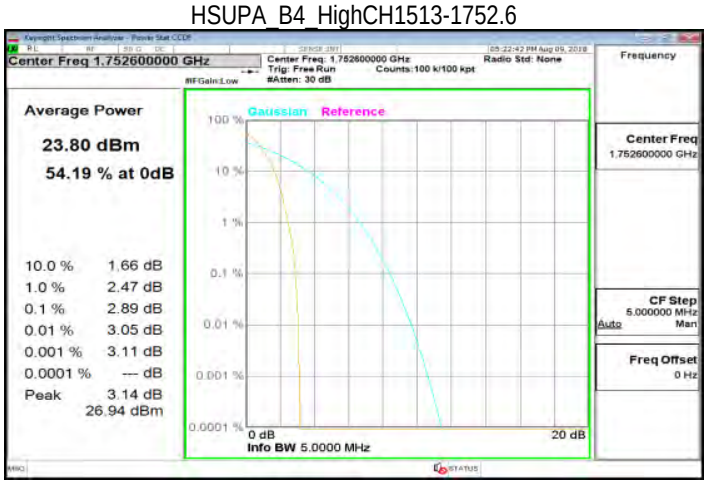

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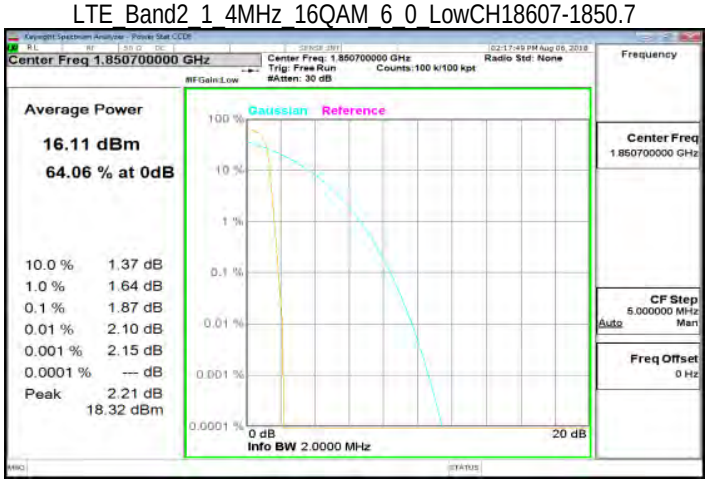
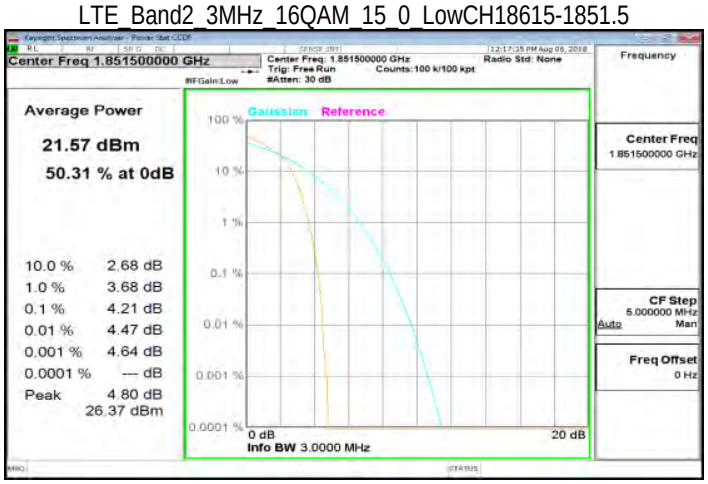
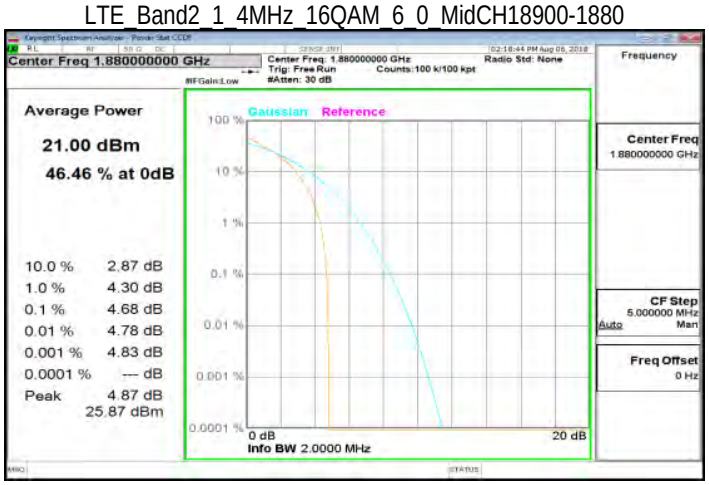
LTE_Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



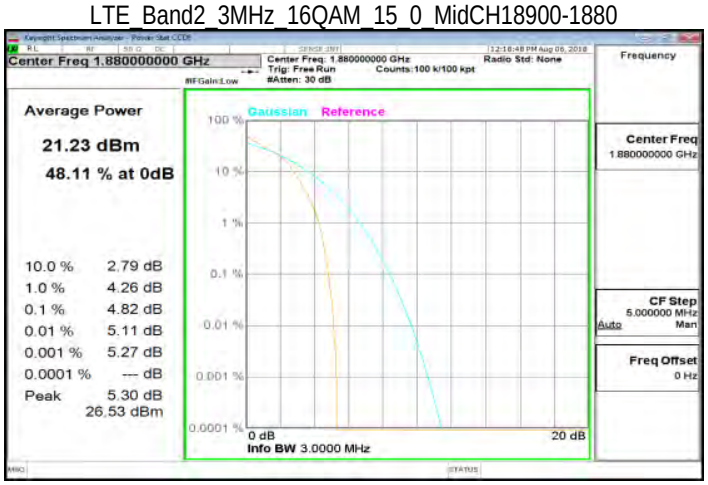
LTE_Band2_3MHz_16QAM_15_0_LowCH18615-1851.5



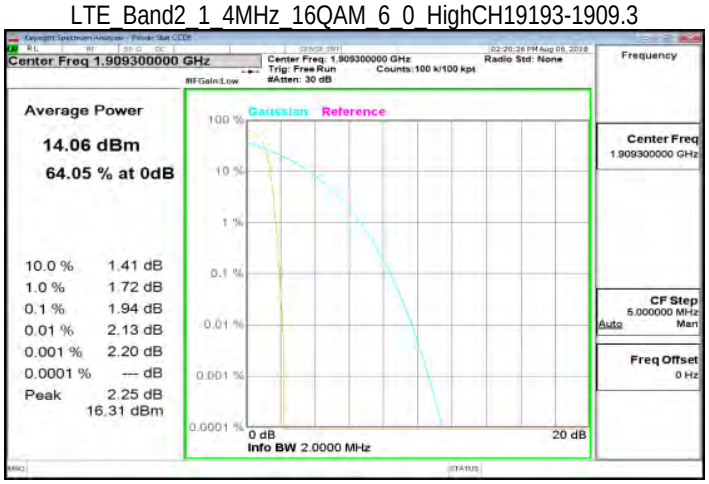
LTE_Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



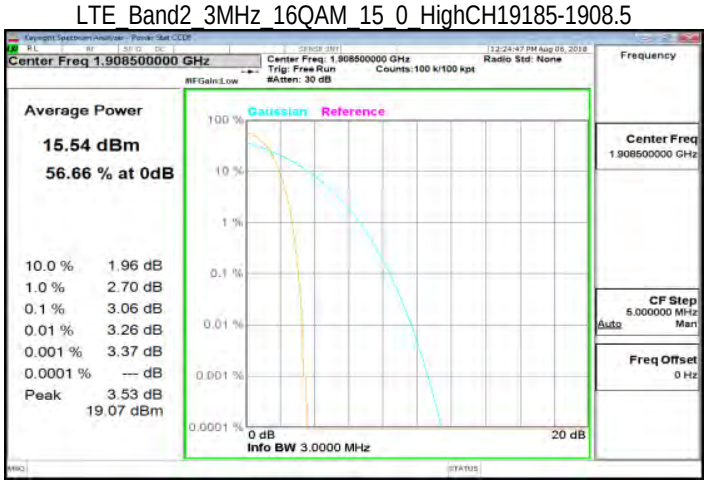
LTE_Band2_3MHz_16QAM_15_0_MidCH18900-1880



LTE_Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



LTE_Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



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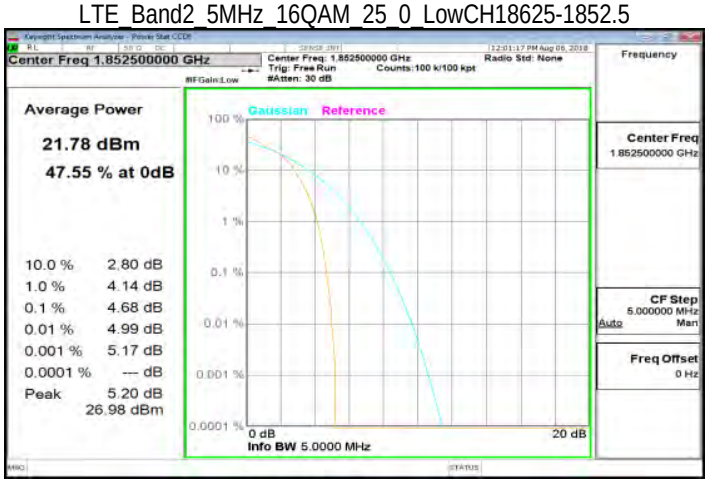
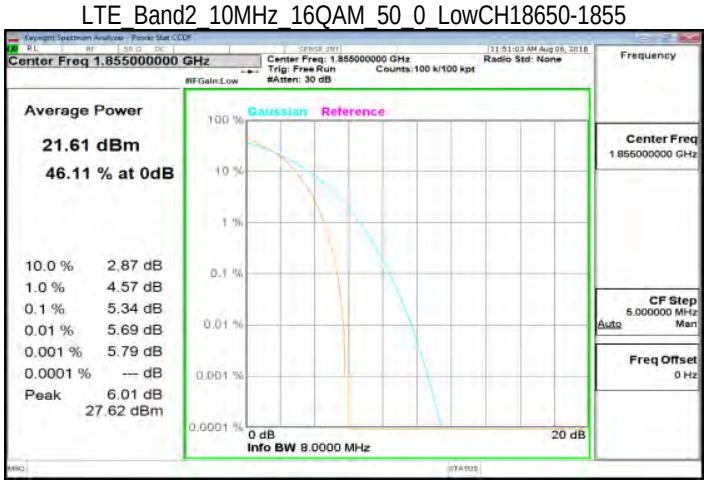
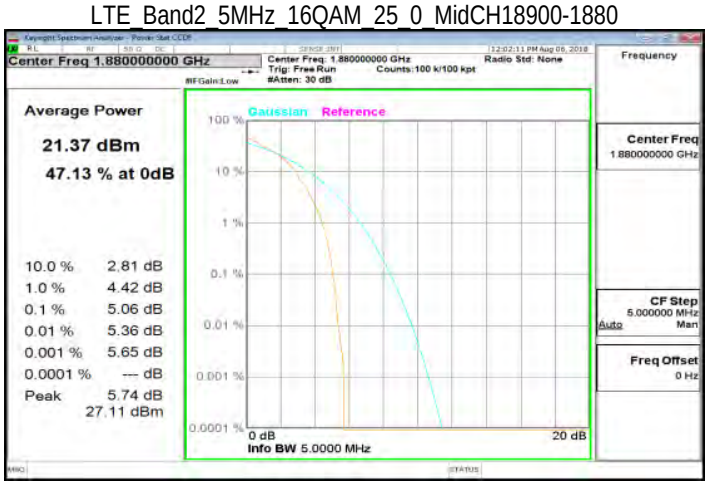
LTE_Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



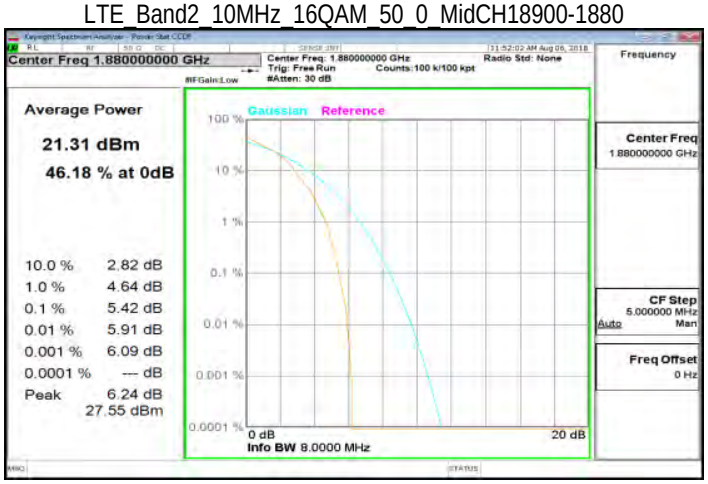
LTE_Band2_10MHz_16QAM_50_0_LowCH18650-1855



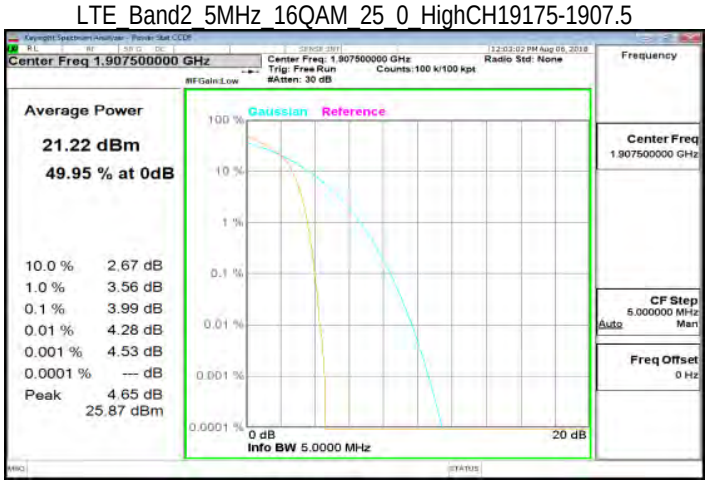
LTE_Band2_5MHz_16QAM_25_0_MidCH18900-1880



LTE_Band2_10MHz_16QAM_50_0_MidCH18900-1880



LTE_Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



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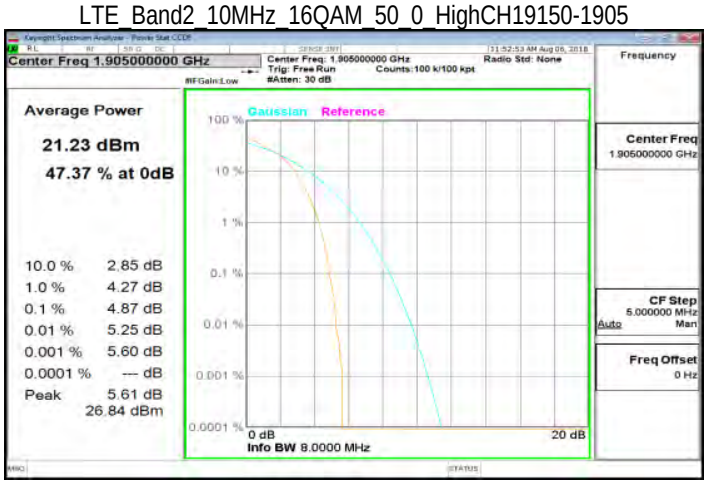

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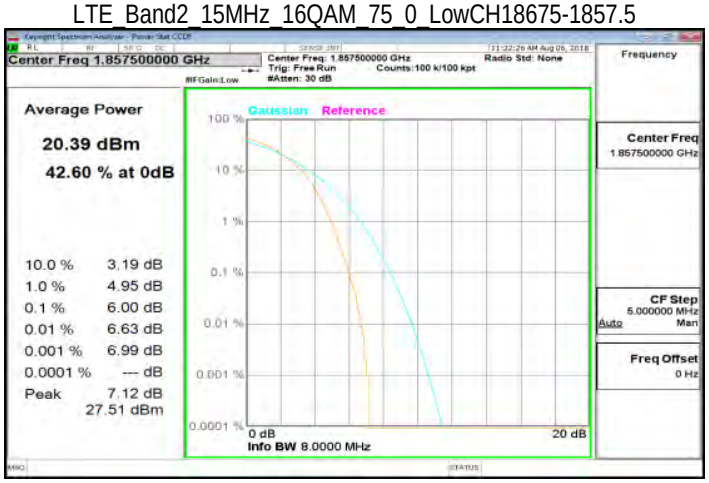
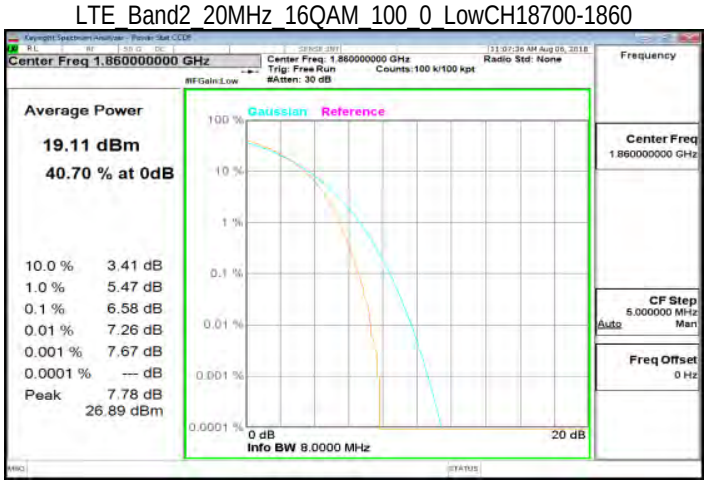
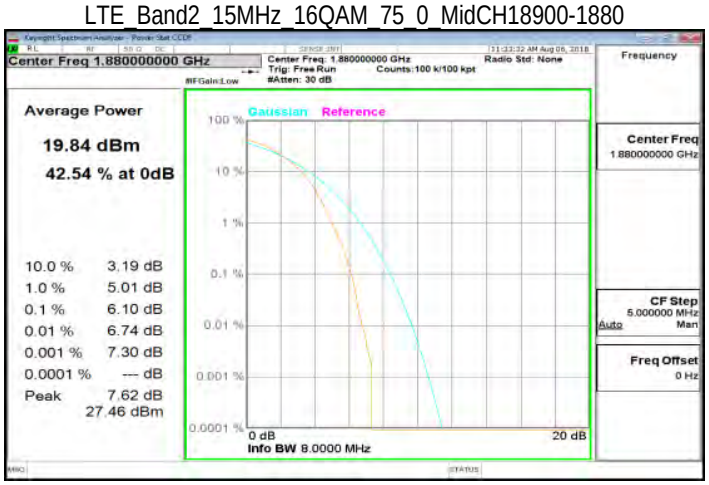
LTE_Band2_15MHz_16QAM_75_0_LowCH18675-1857.5



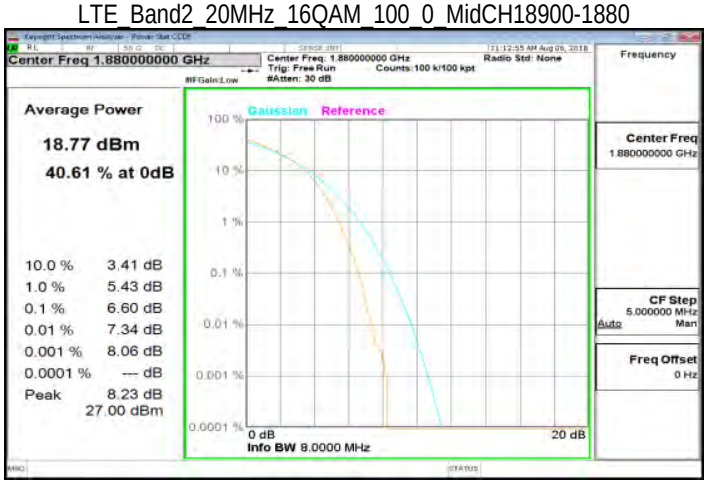
LTE_Band2_20MHz_16QAM_100_0_LowCH18700-1860



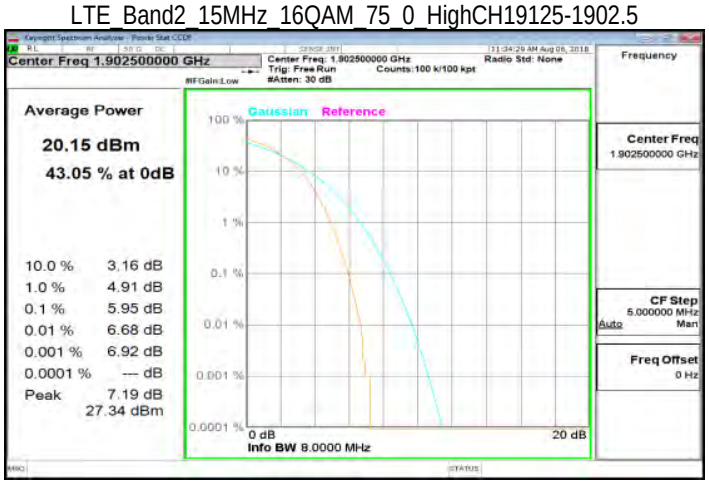
LTE_Band2_15MHz_16QAM_75_0_MidCH18900-1880



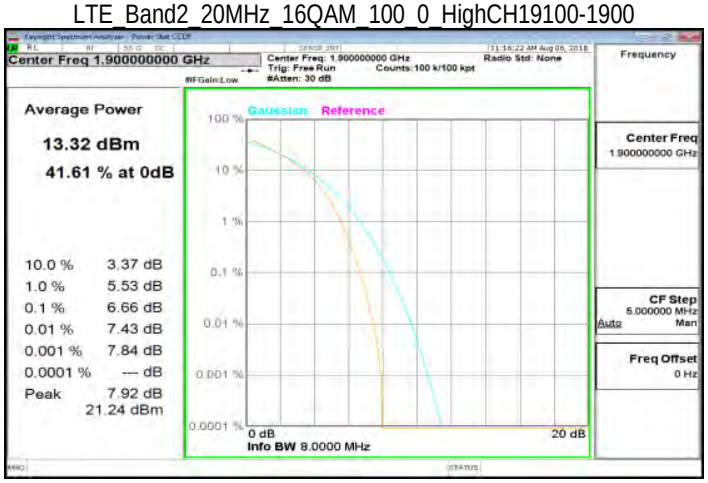
LTE_Band2_20MHz_16QAM_100_0_MidCH18900-1880



LTE_Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



LTE_Band2_20MHz_16QAM_100_0_HighCH19100-1900



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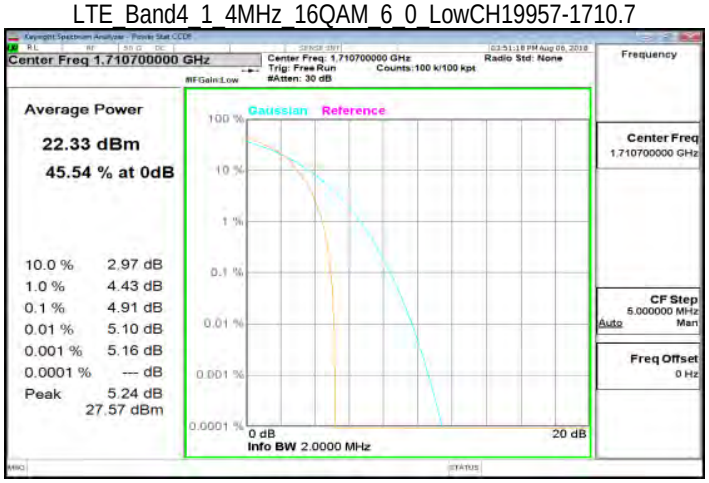
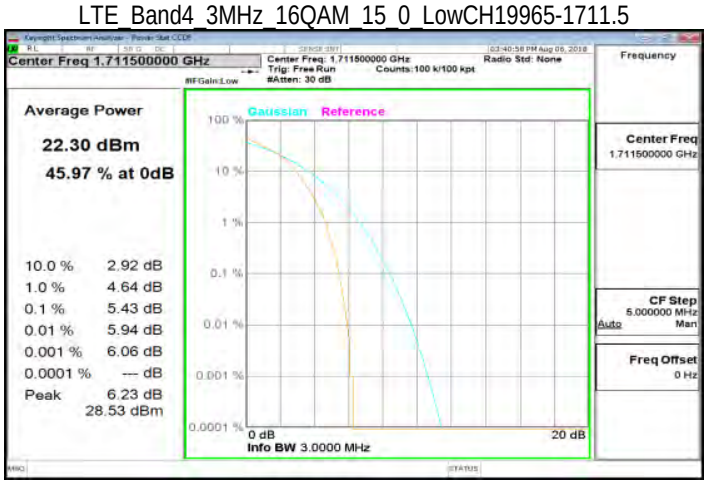
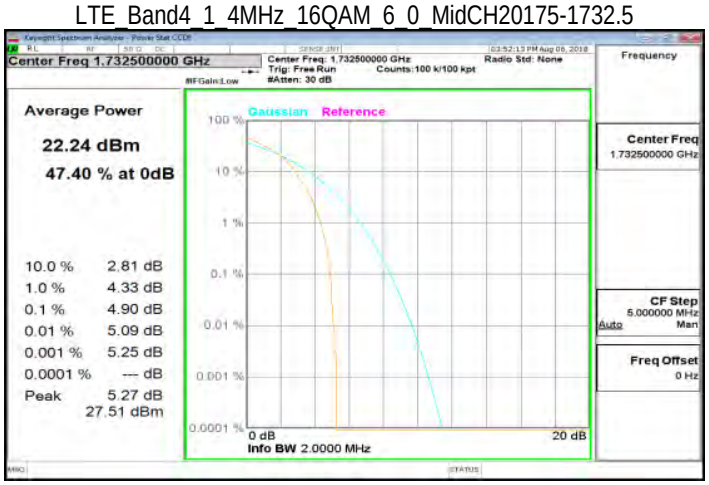
LTE_Band4_1_4MHz_16QAM_6_0_LowCH19957-1710.7



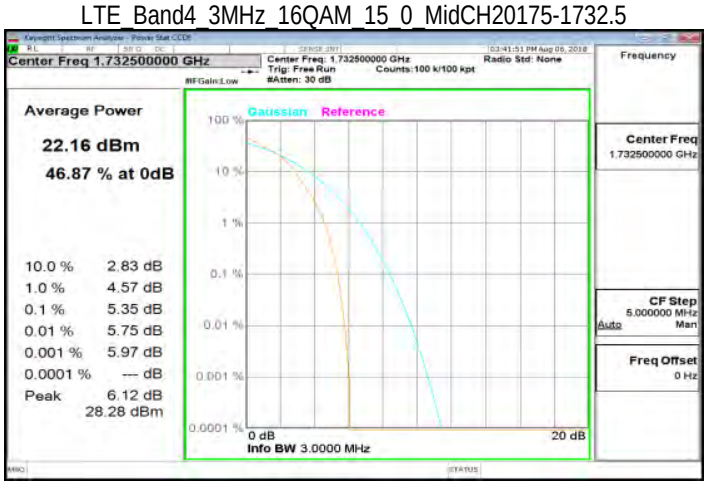
LTE_Band4_3MHz_16QAM_15_0_LowCH19965-1711.5



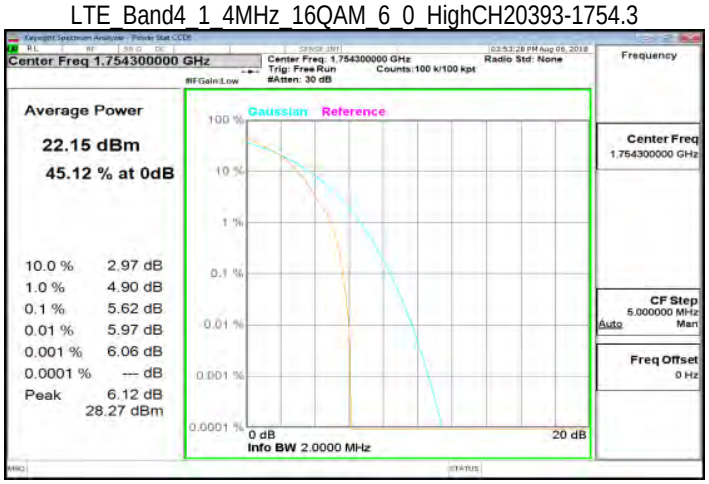
LTE_Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



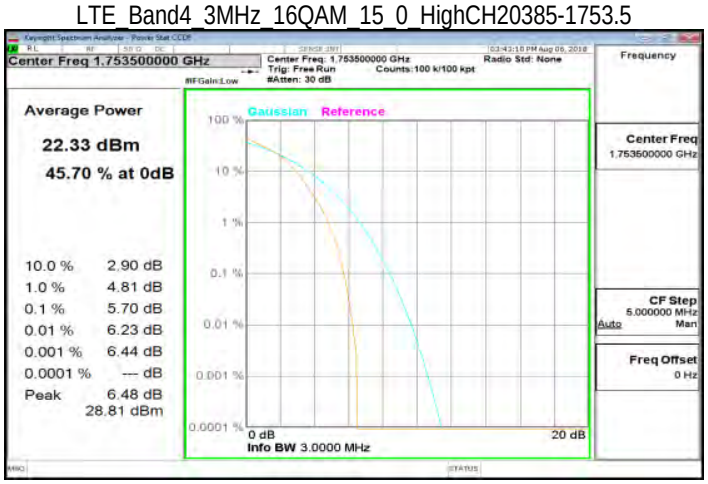
LTE_Band4_3MHz_16QAM_15_0_MidCH20175-1732.5



LTE_Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3



LTE_Band4_3MHz_16QAM_15_0_HighCH20385-1753.5



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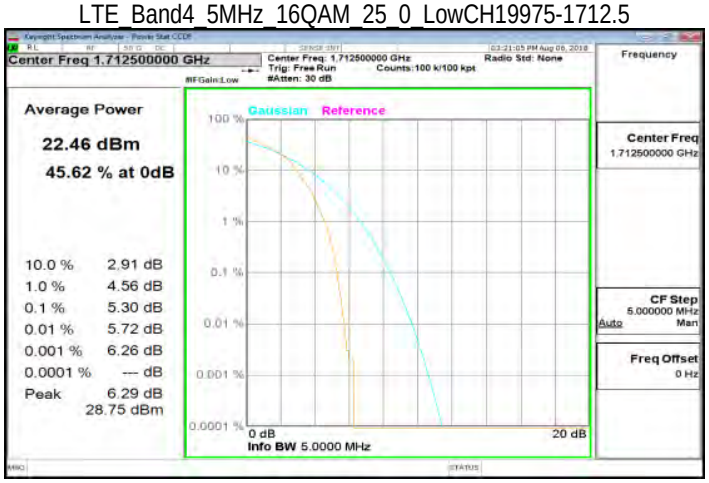
LTE_Band4_5MHz_16QAM_25_0_LowCH19975-1712.5



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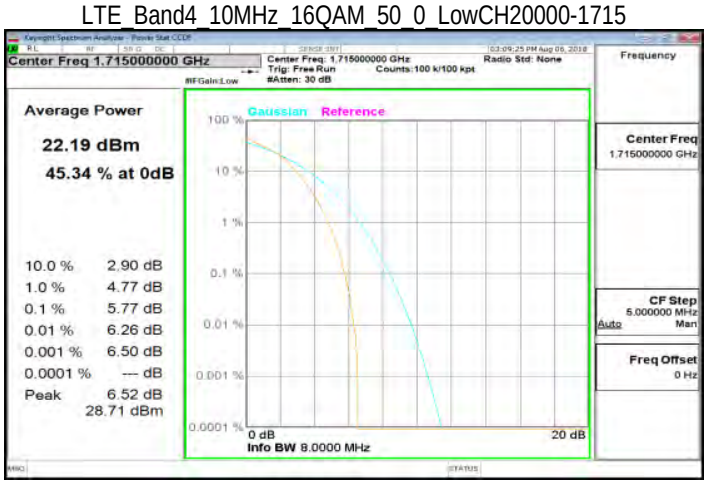
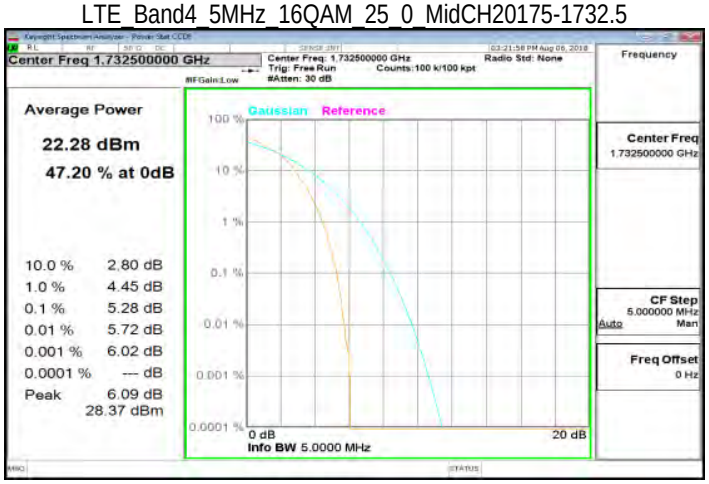


LTE_Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



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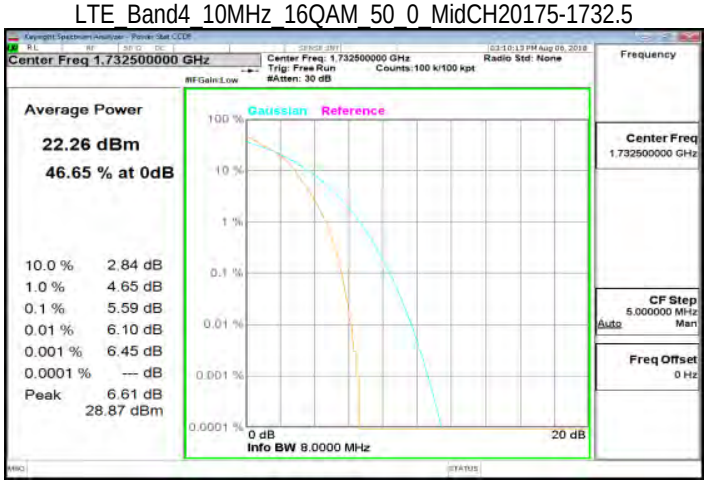
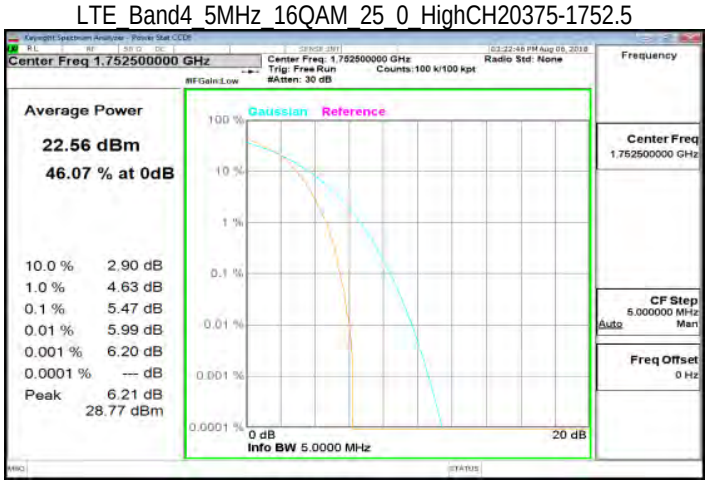
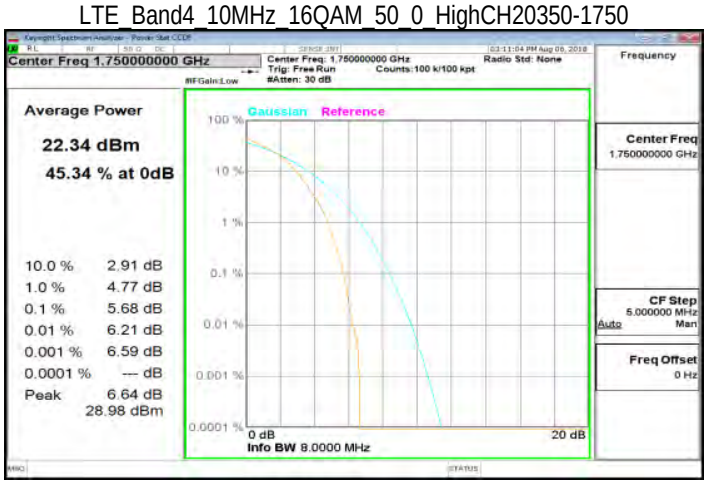


LTE_Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



LTE_Band4_10MHz_16QAM_50_0_HighCH20350-1750



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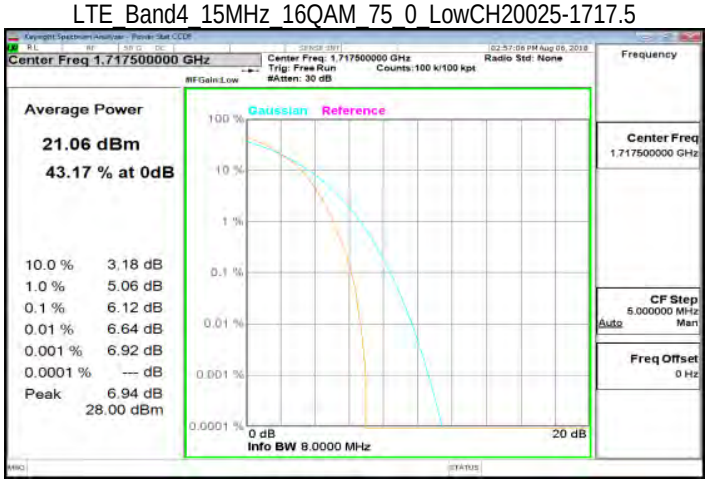
LTE_Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



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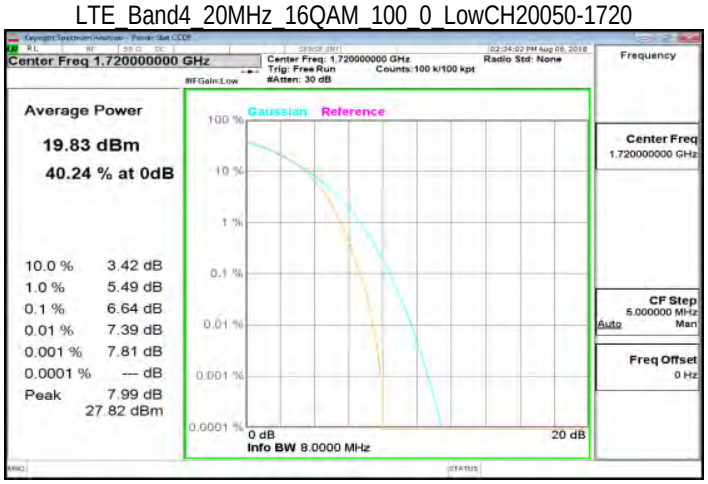

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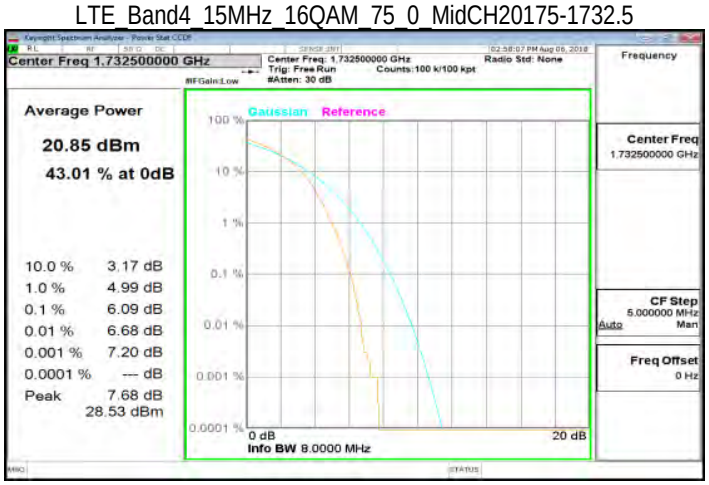
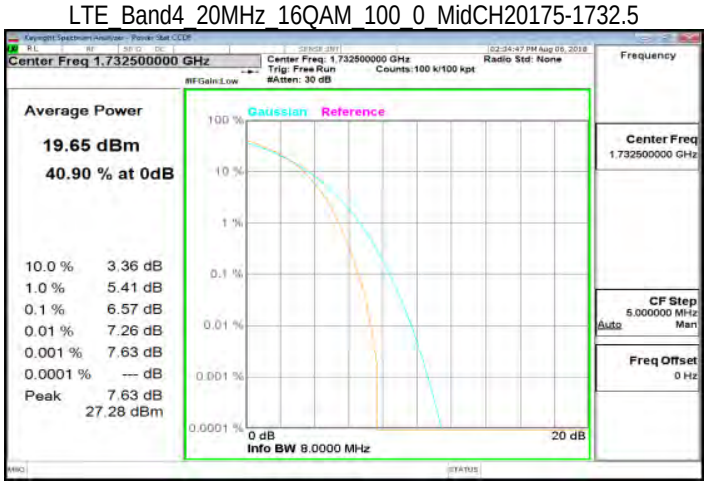


LTE_Band4_20MHz_16QAM_100_0_MidCH20175-1732.5



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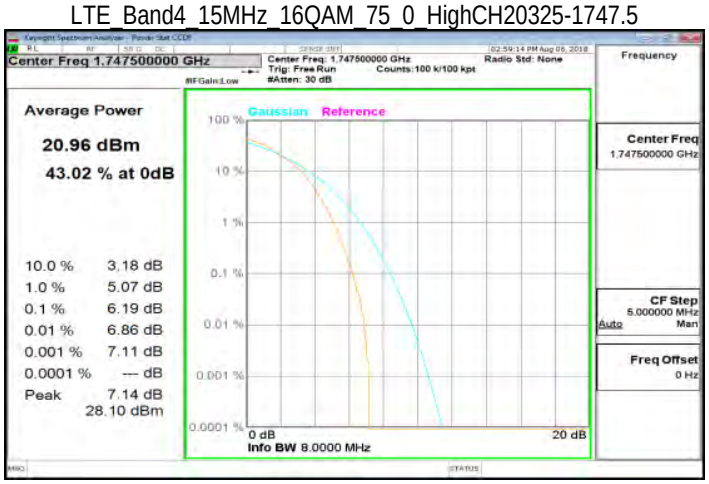

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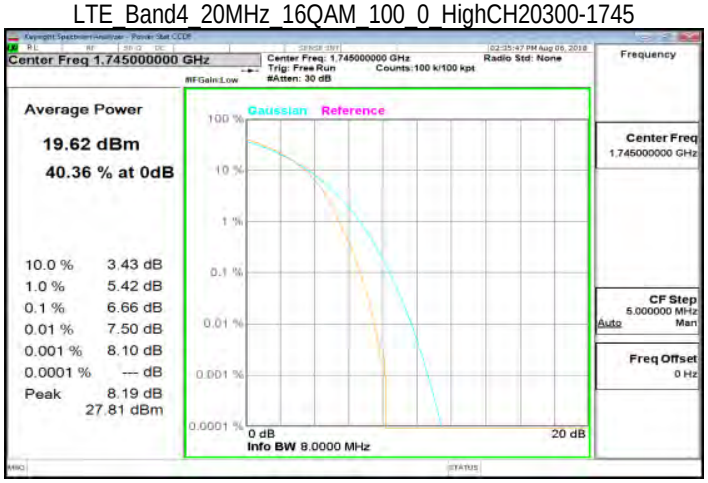

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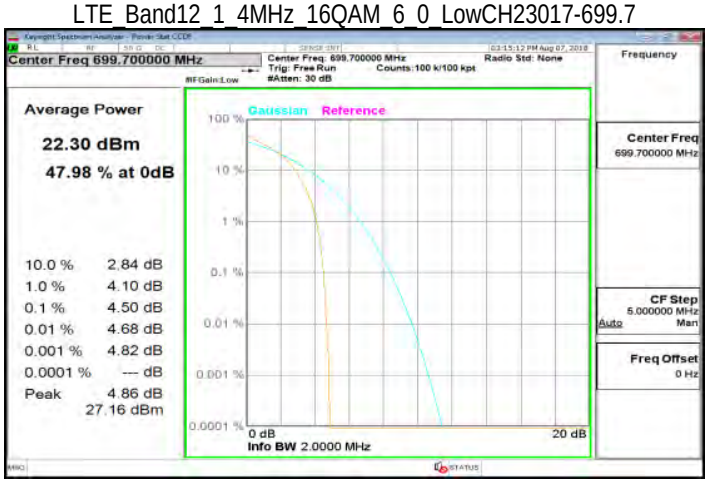
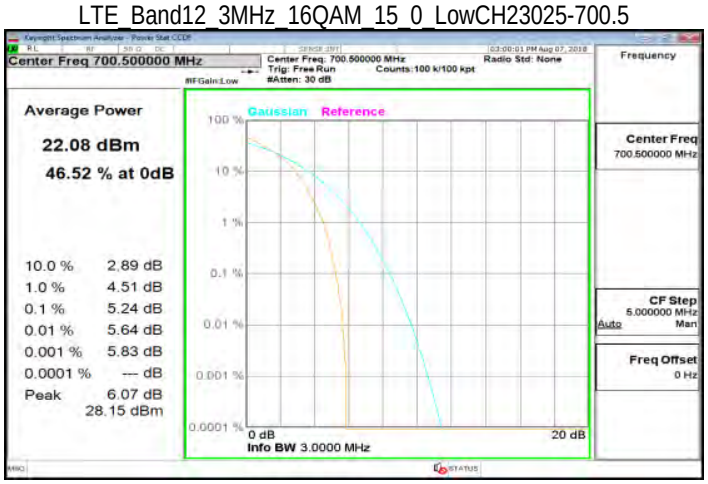
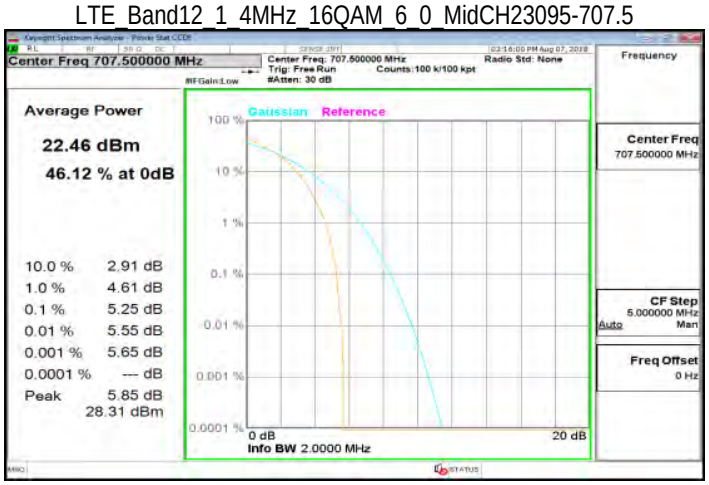
LTE_Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7



LTE_Band12_3MHz_16QAM_15_0_LowCH23025-700.5



LTE_Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



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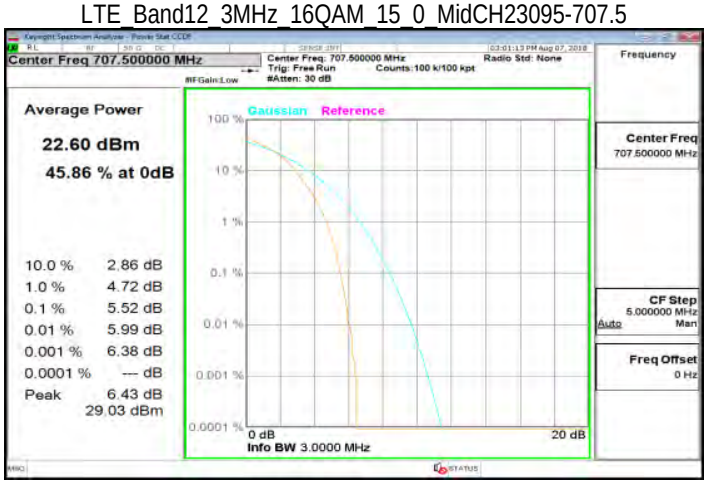
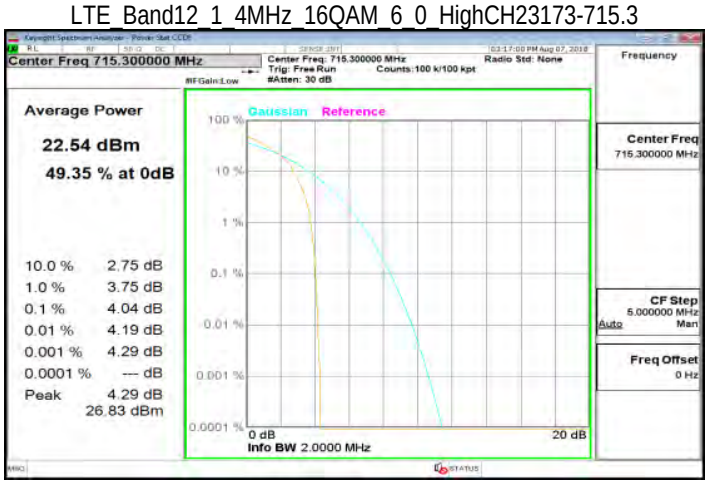


LTE_Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3



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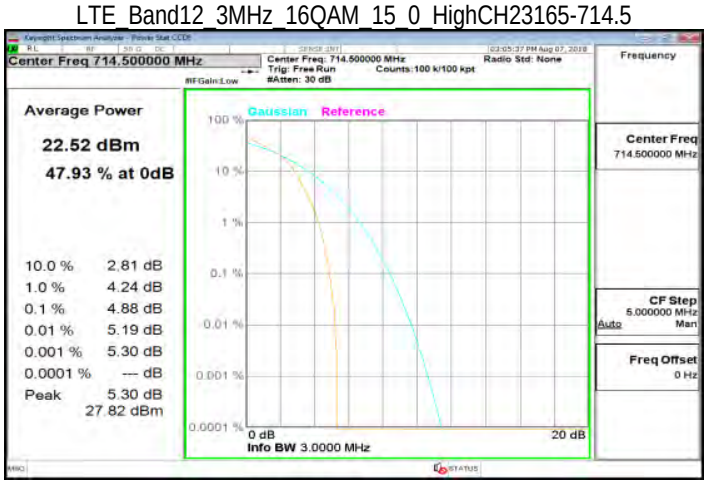

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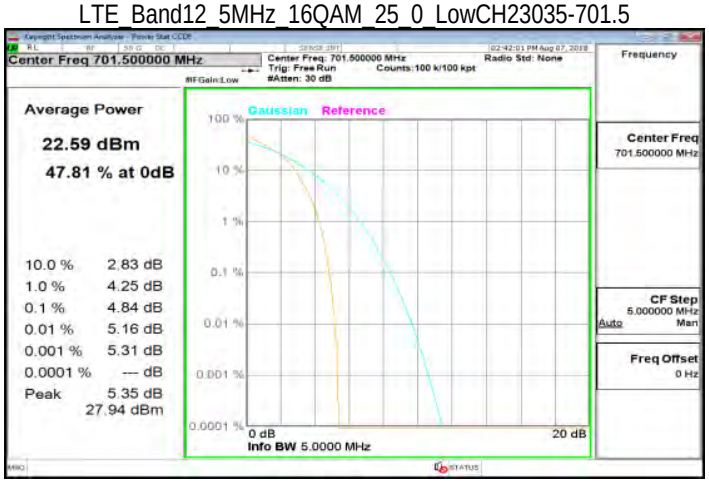
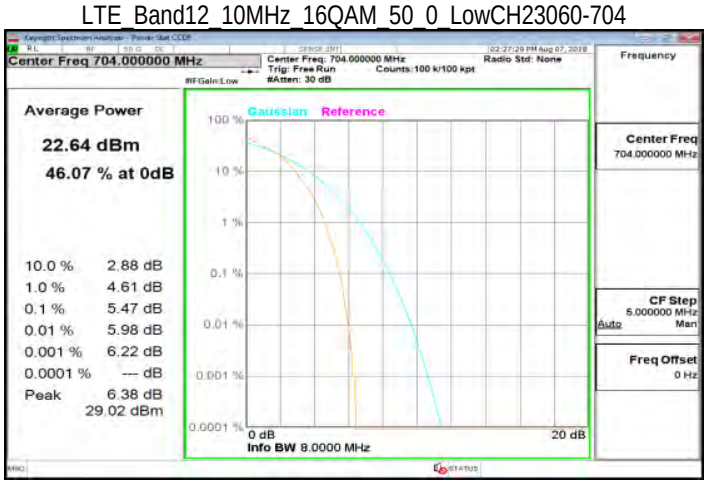
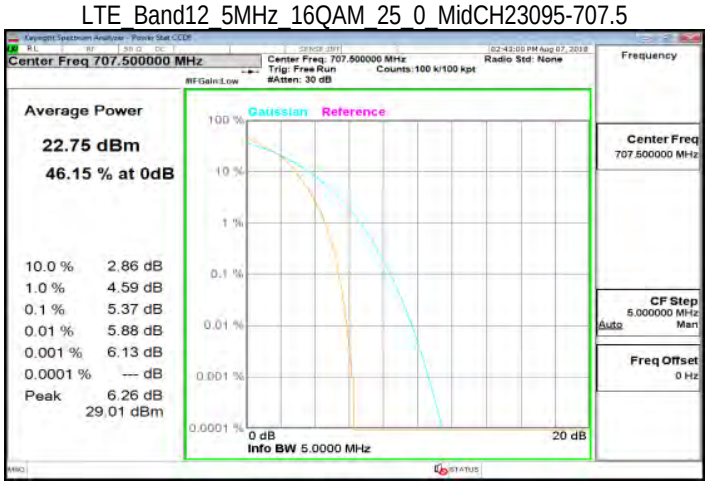
LTE_Band12_5MHz_16QAM_25_0_LowCH23035-701.5



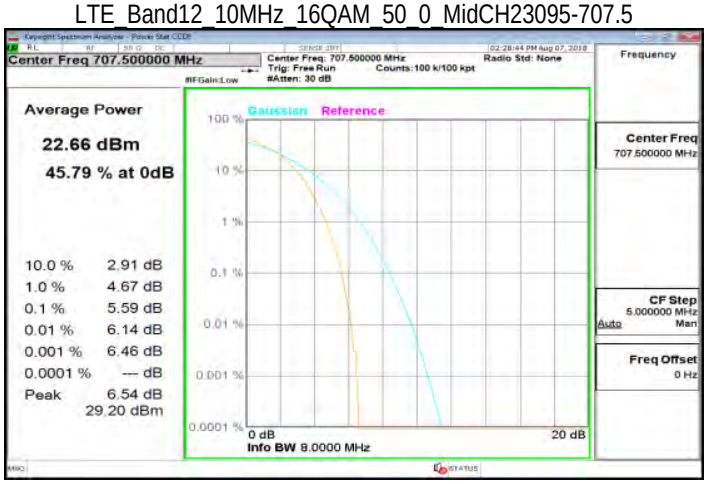
LTE_Band12_10MHz_16QAM_50_0_LowCH23060-704



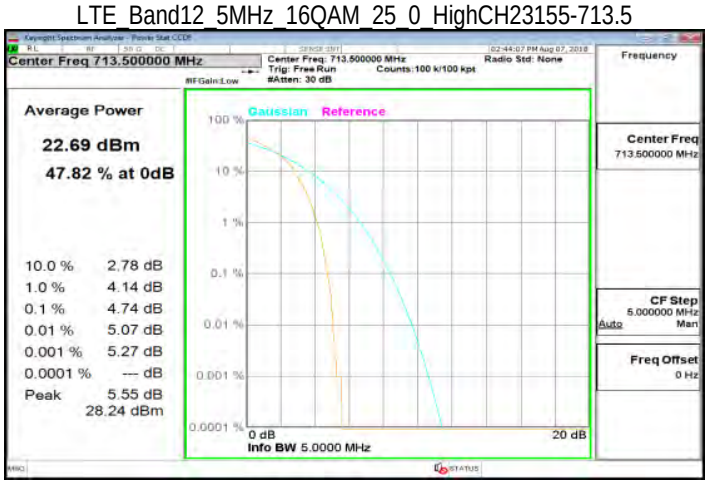
LTE_Band12_5MHz_16QAM_25_0_MidCH23095-707.5



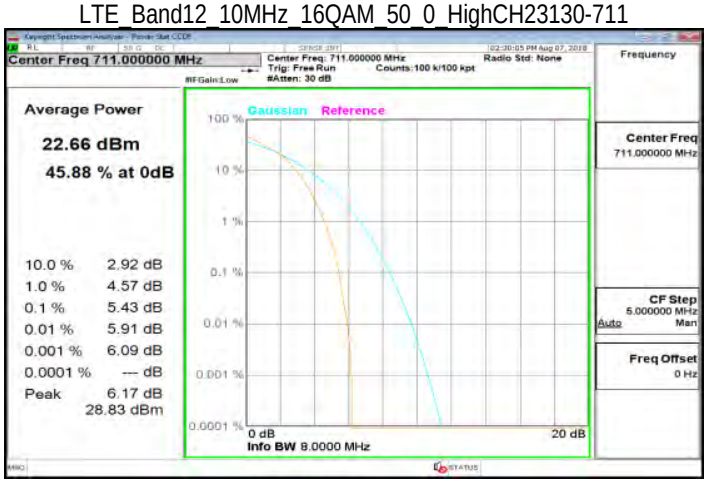
LTE_Band12_10MHz_16QAM_50_0_MidCH23095-707.5



LTE_Band12_5MHz_16QAM_25_0_HighCH23155-713.5



LTE_Band12_10MHz_16QAM_50_0_HighCH23130-711



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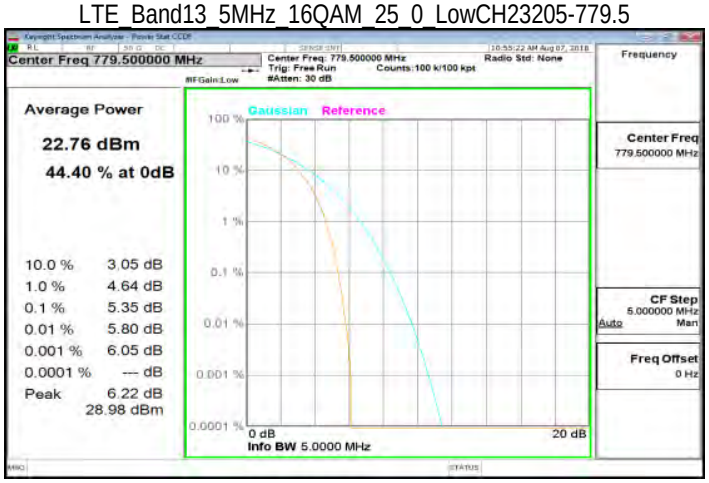
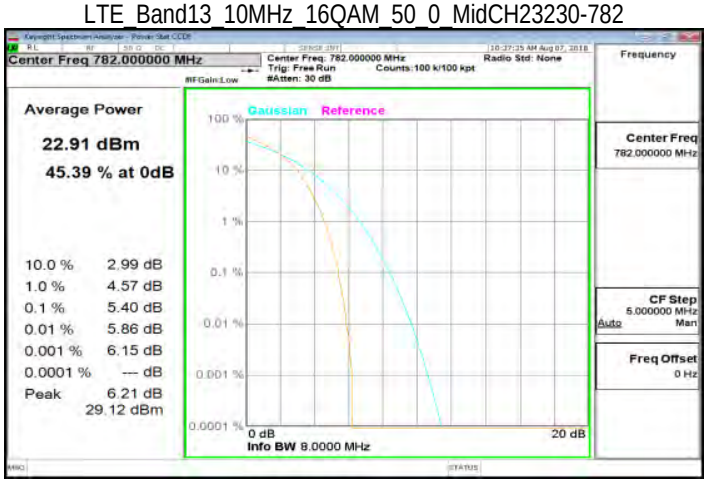
LTE_Band13_5MHz_16QAM_25_0_LowCH23205-779.5



LTE_Band13_10MHz_16QAM_50_0_MidCH23230-782



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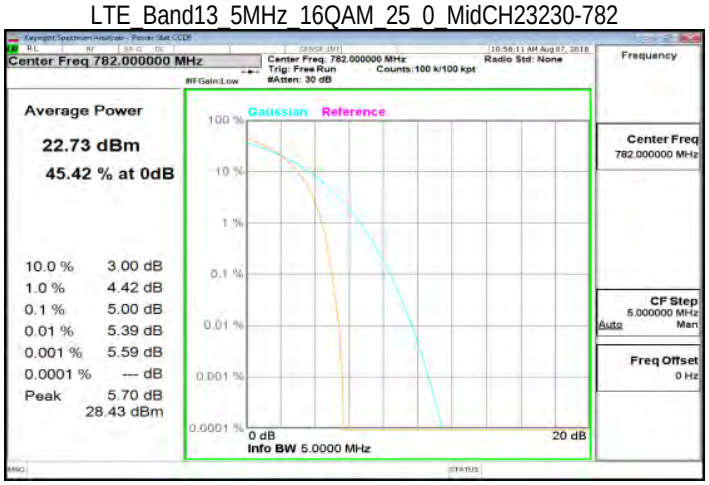
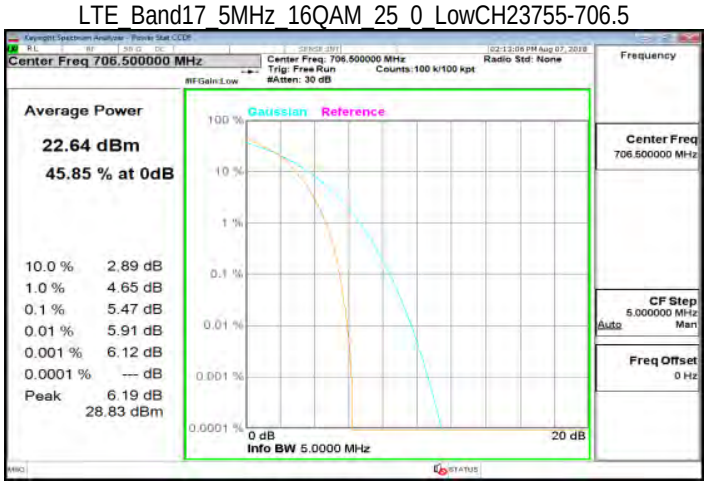
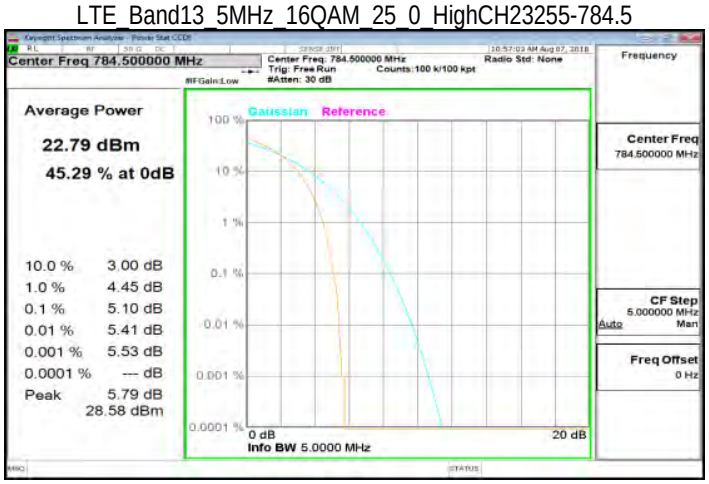


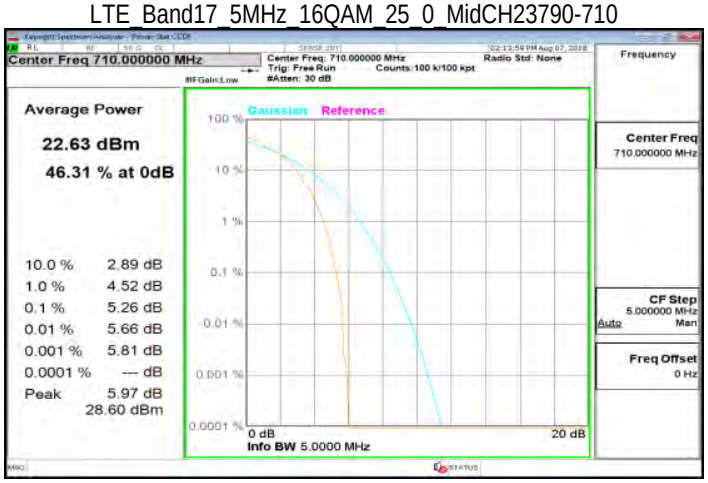
LTE_Band17_5MHz_16QAM_25_0_LowCH23755-706.5



LTE_Band13_5MHz_16QAM_25_0_HighCH23255-784.5



LTE_Band17_5MHz_16QAM_25_0_MidCH23790-710



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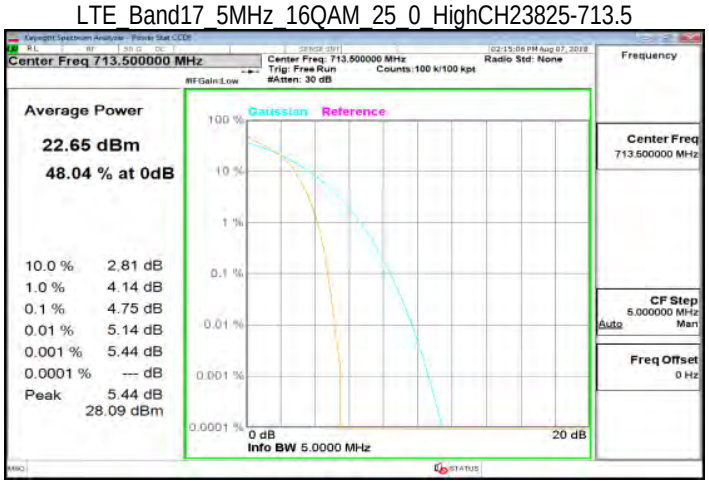
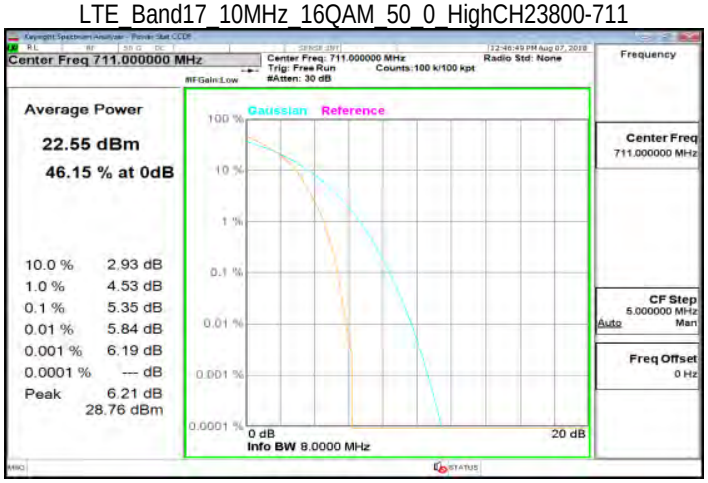
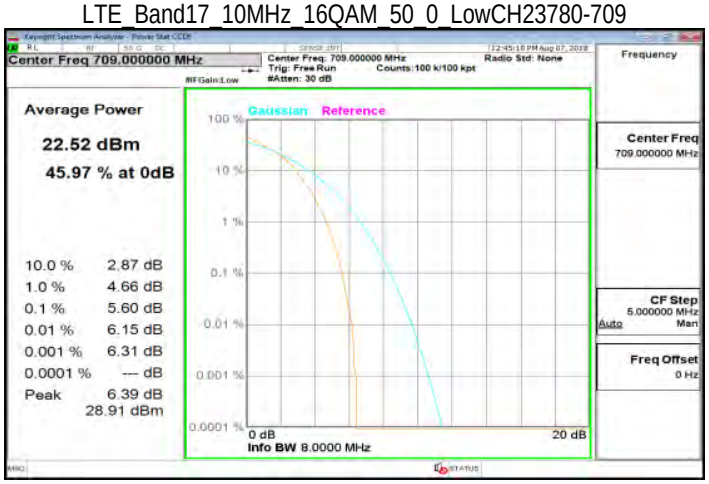
LTE_Band17_5MHz_16QAM_25_0_HighCH23825-713.5



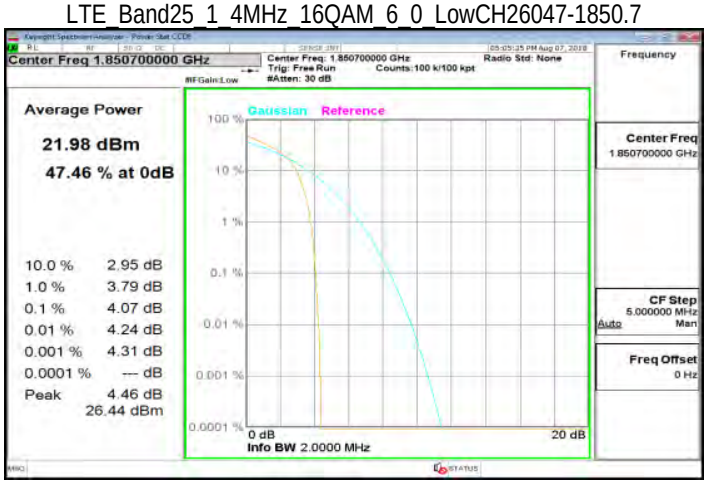
LTE_Band17_10MHz_16QAM_50_0_HighCH23800-711



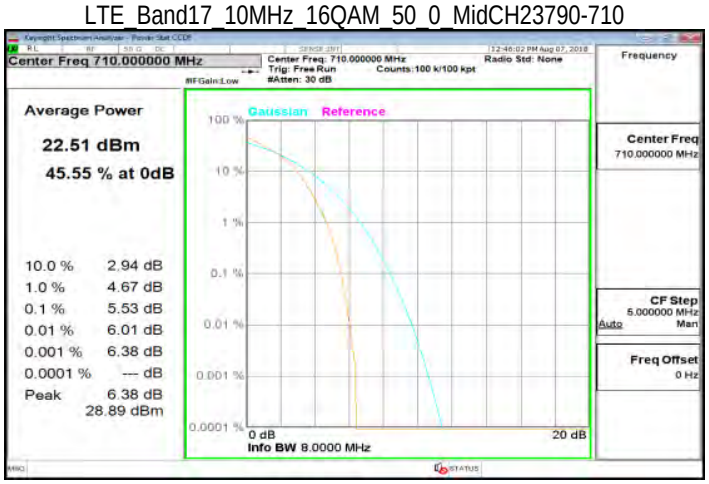
LTE_Band17_10MHz_16QAM_50_0_LowCH23780-709



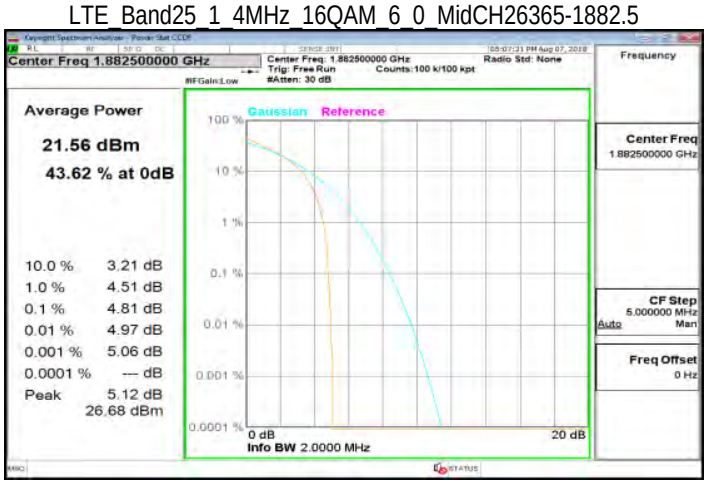
LTE_Band25_1_4MHz_16QAM_6_0_LowCH26047-1850.7



LTE_Band17_10MHz_16QAM_50_0_MidCH23790-710



LTE_Band25_1_4MHz_16QAM_6_0_MidCH26365-1882.5



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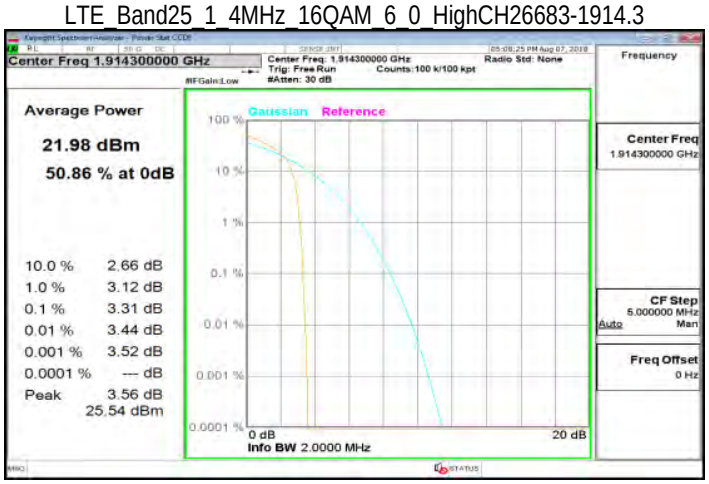
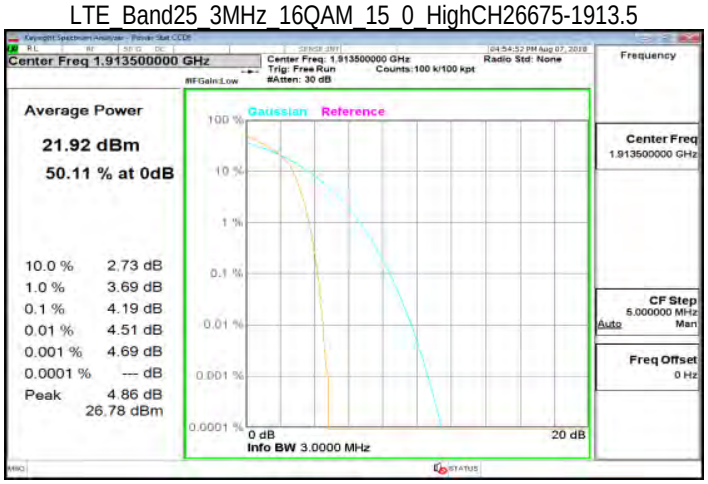
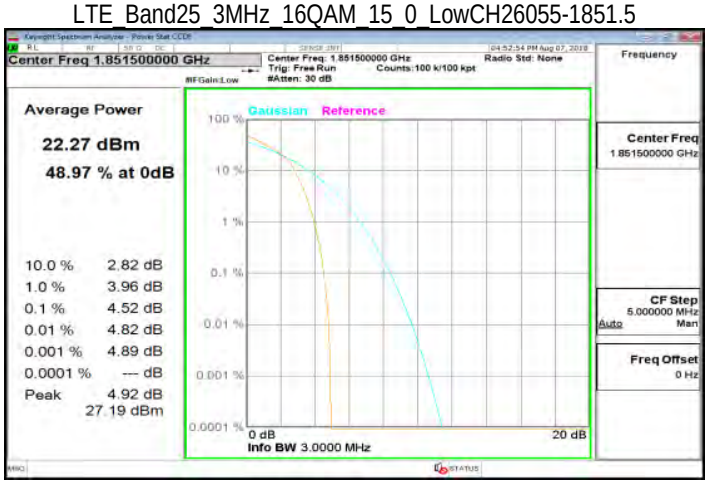
LTE_Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



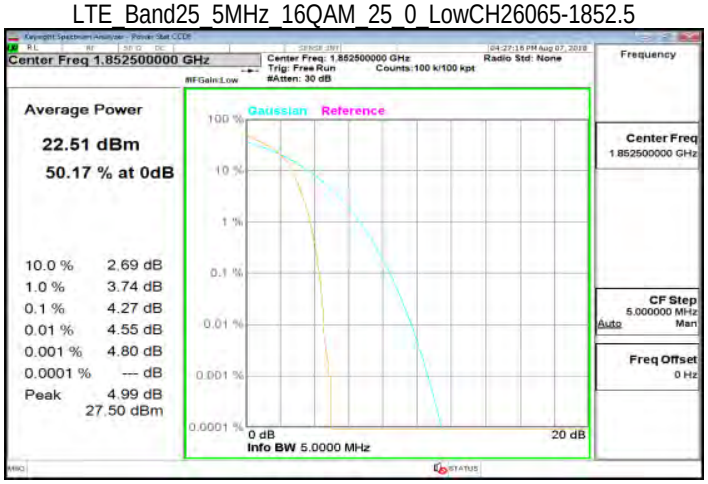
LTE_Band25_3MHz_16QAM_15_0_HighCH26675-1913.5



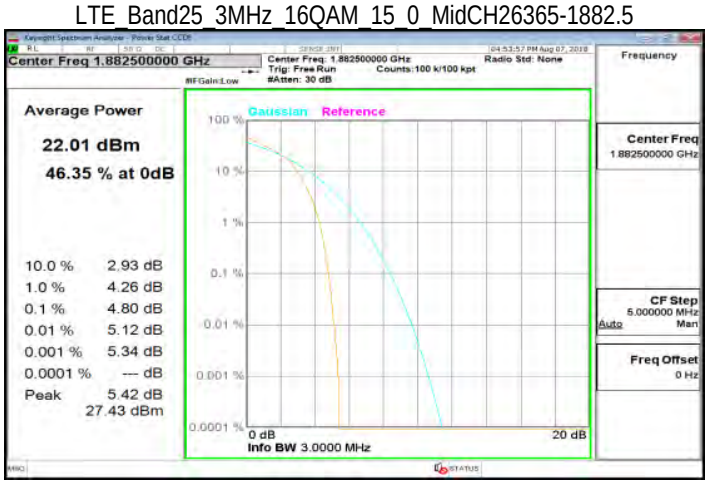
LTE_Band25_3MHz_16QAM_15_0_LowCH26055-1851.5



LTE_Band25_5MHz_16QAM_25_0_LowCH26065-1852.5



LTE_Band25_3MHz_16QAM_15_0_MidCH26365-1882.5



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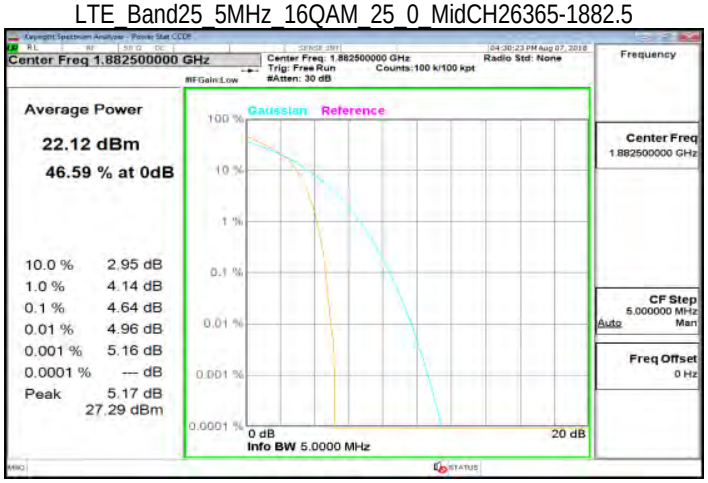

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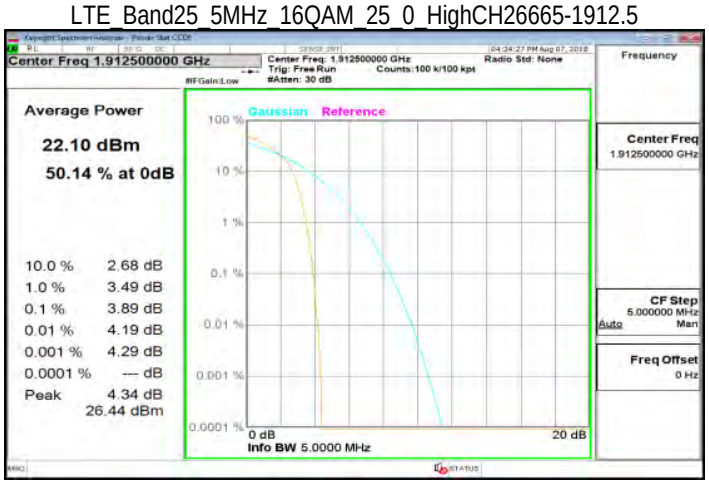
LTE_Band25_5MHz_16QAM_25_0_HighCH26665-1912.5



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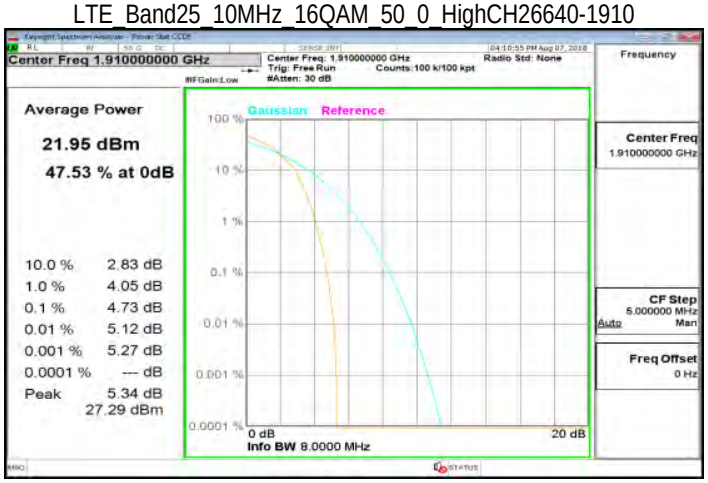

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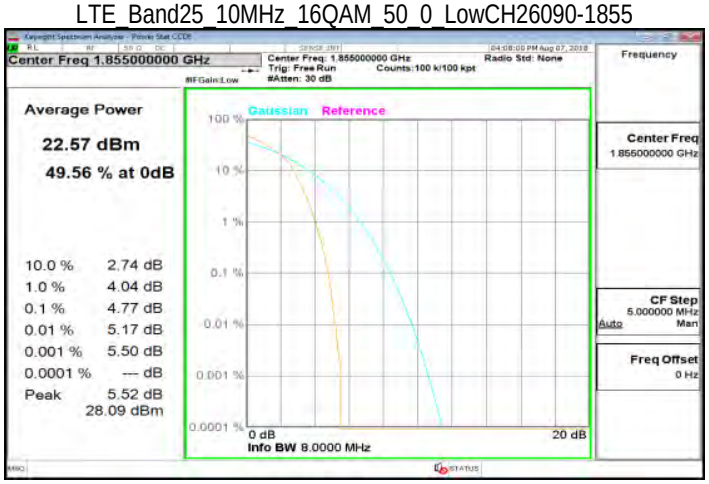

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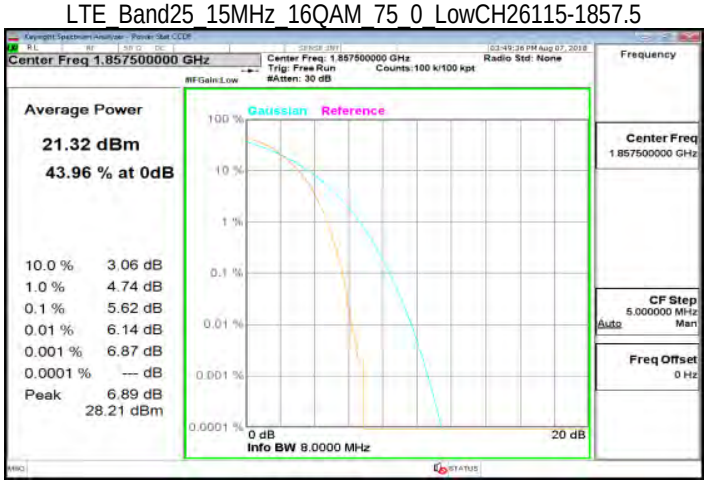

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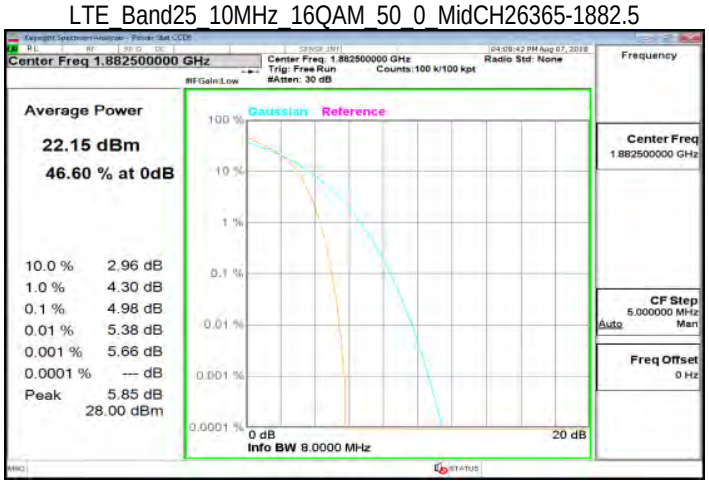

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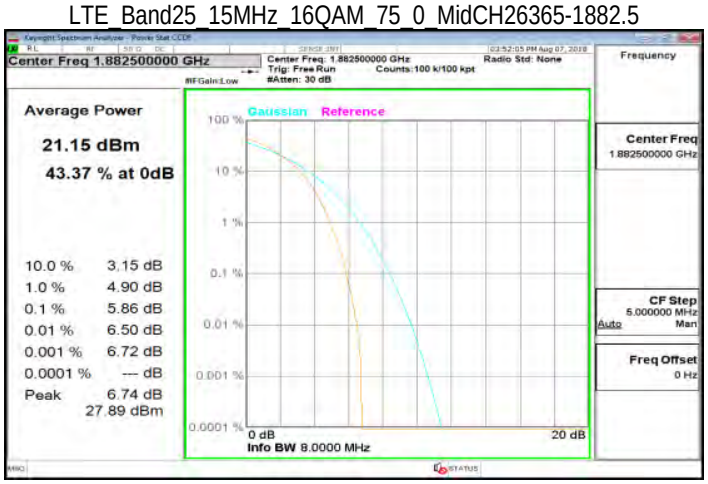

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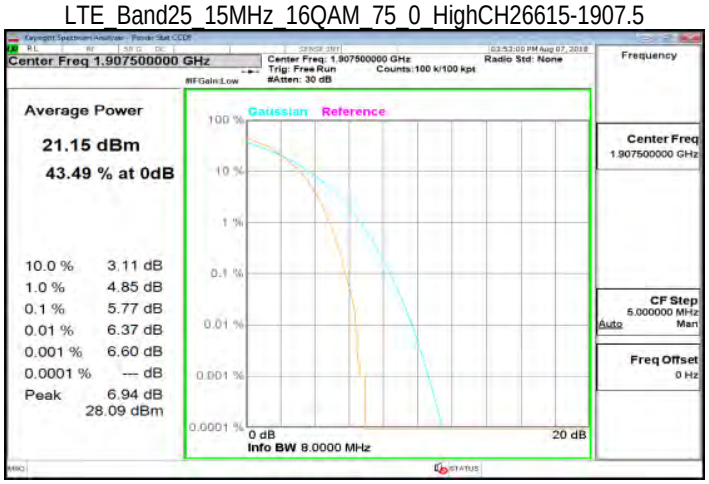
LTE_Band25_15MHz_16QAM_75_0_HighCH26615-1907.5



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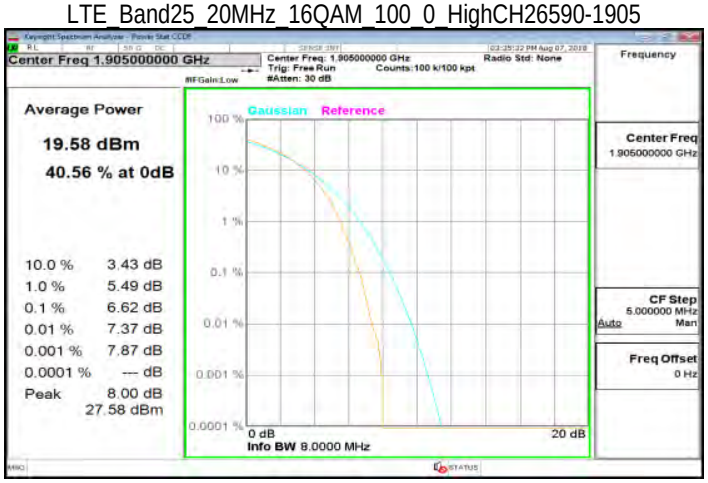

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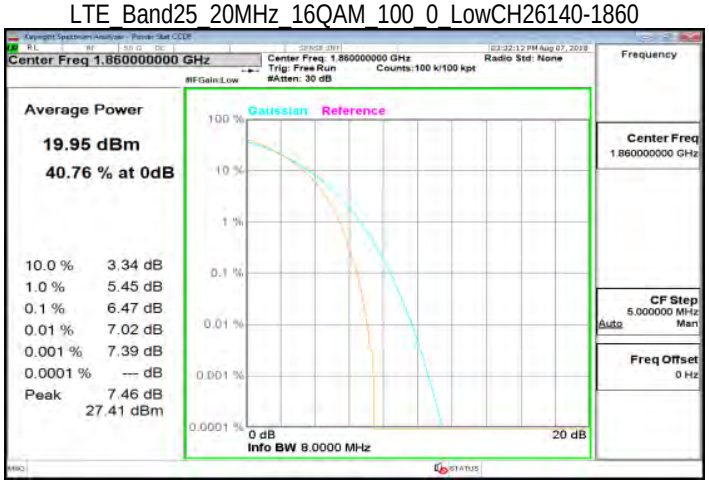

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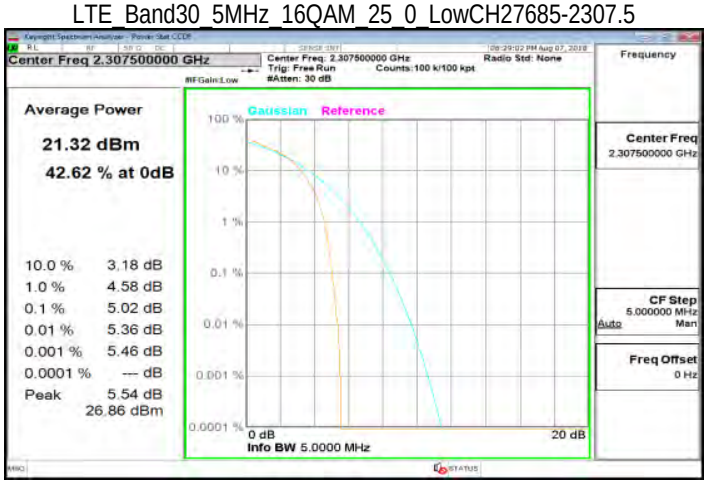
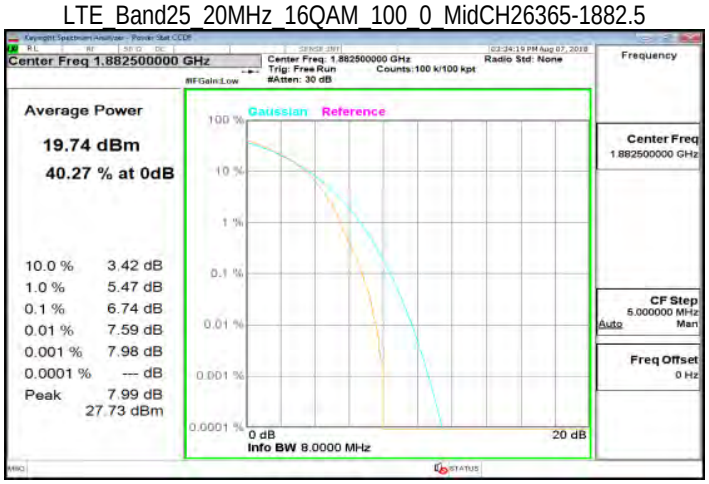


LTE_Band25_20MHz_16QAM_100_0_MidCH26365-1882.5



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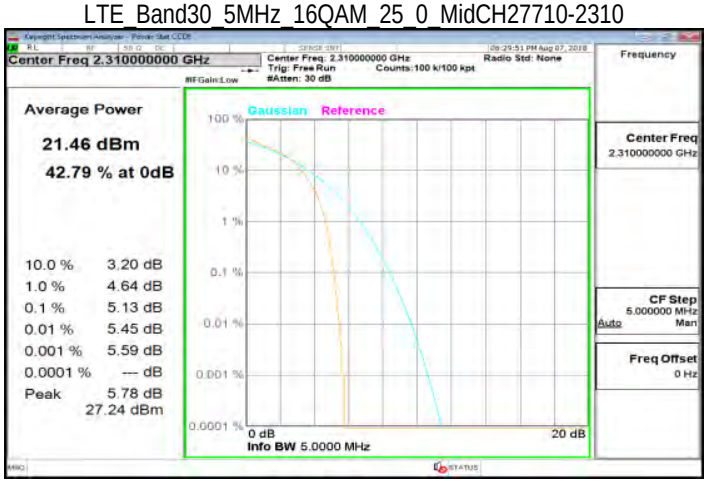

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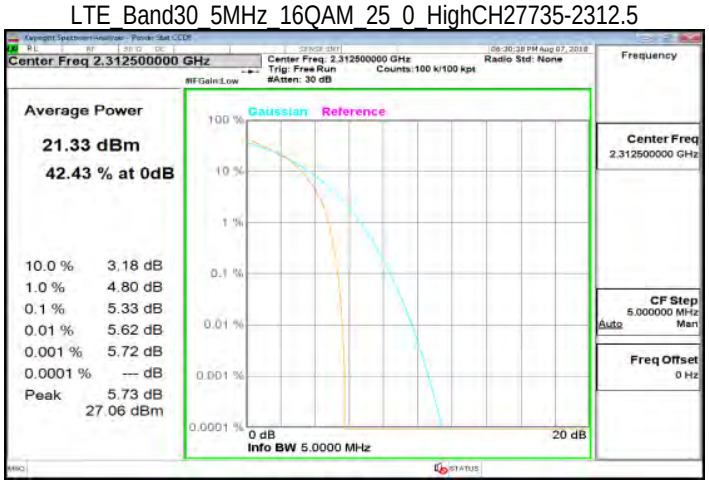
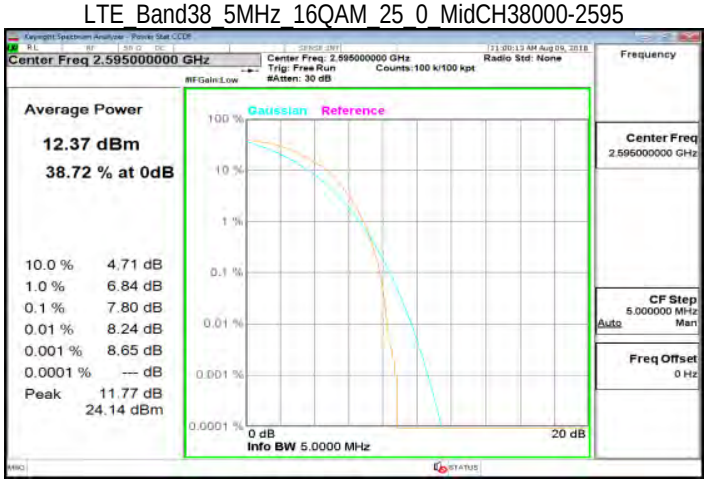
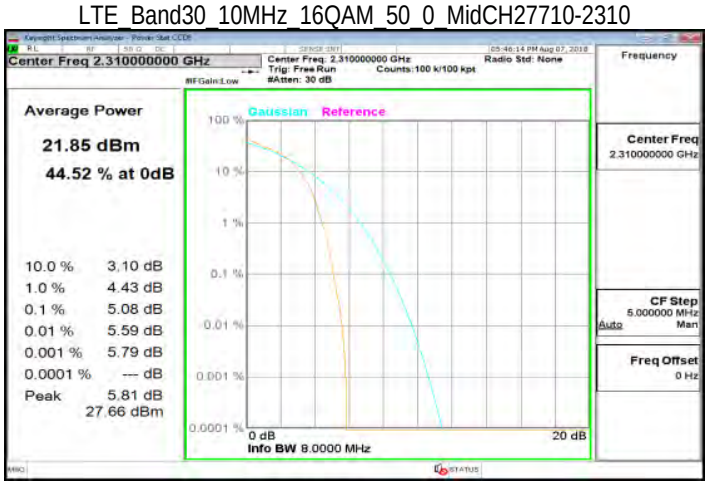
LTE_Band30_5MHz_16QAM_25_0_HighCH27735-2312.5



LTE_Band38_5MHz_16QAM_25_0_MidCH38000-2595



LTE_Band30_10MHz_16QAM_50_0_MidCH27710-2310



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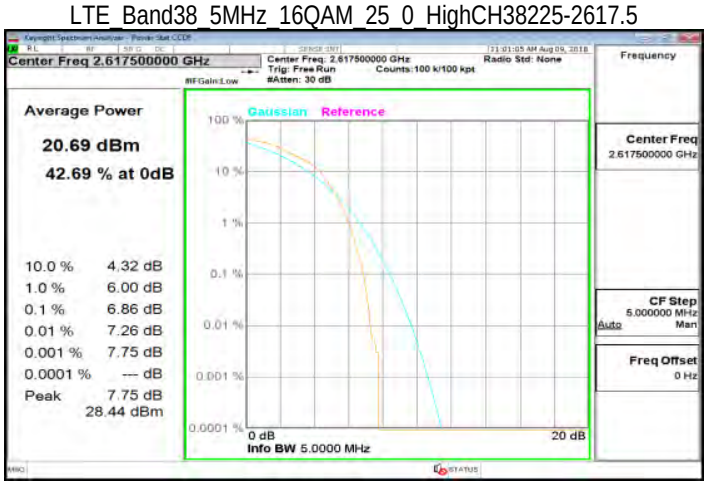

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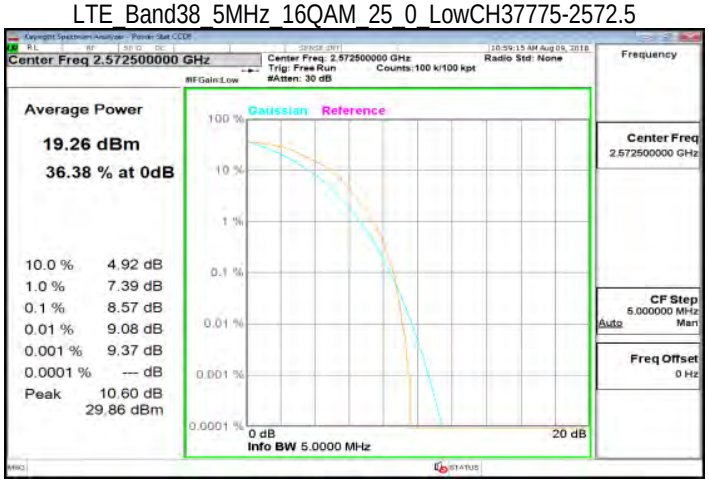

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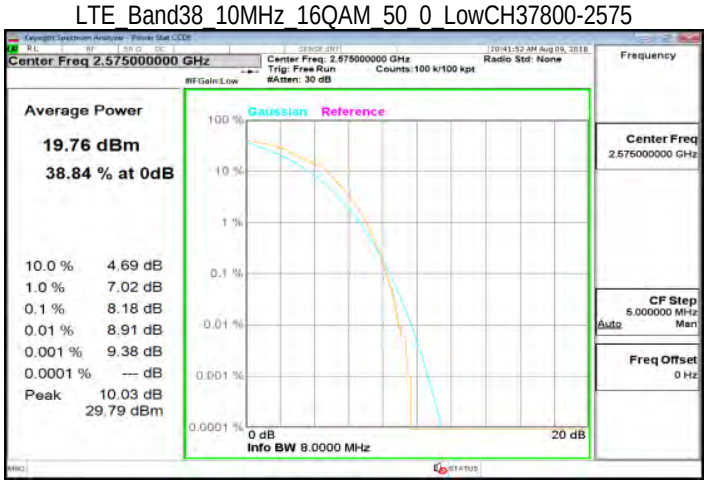

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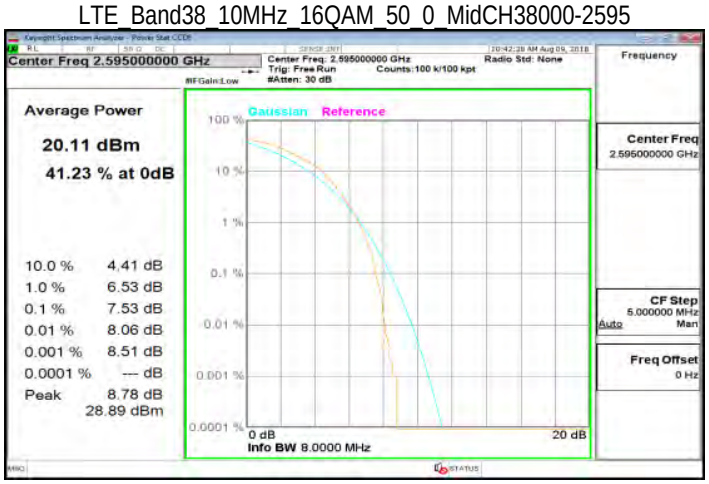
LTE_Band38_10MHz_16QAM_50_0_MidCH38000-2595



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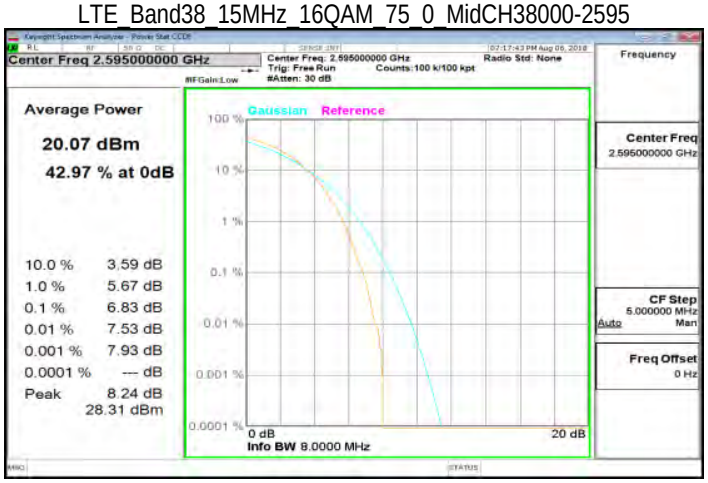

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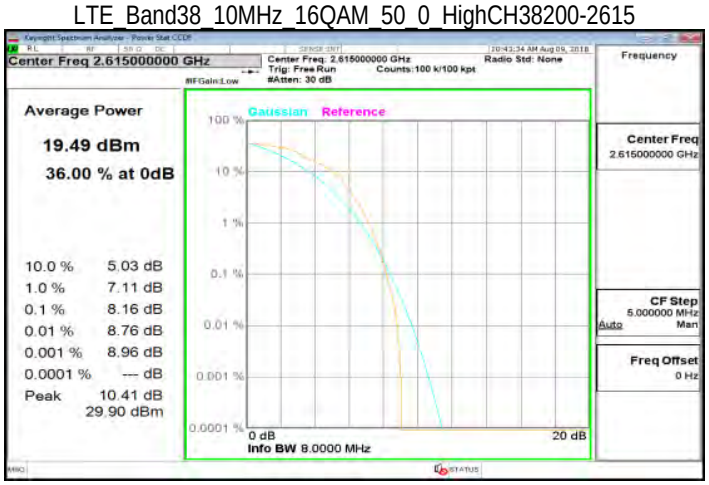

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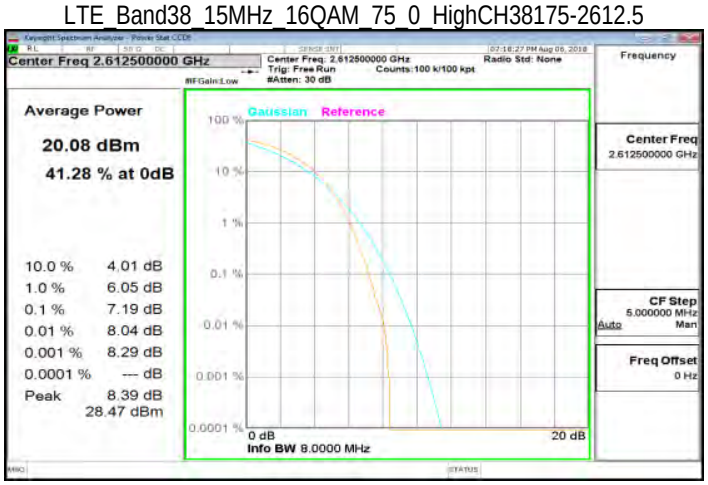

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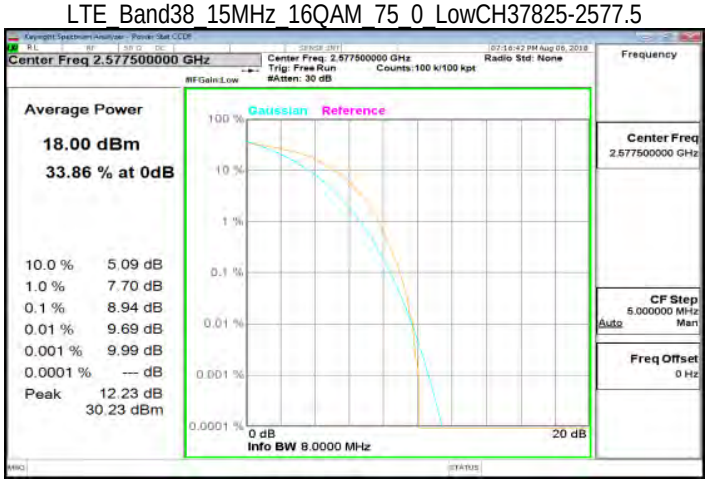

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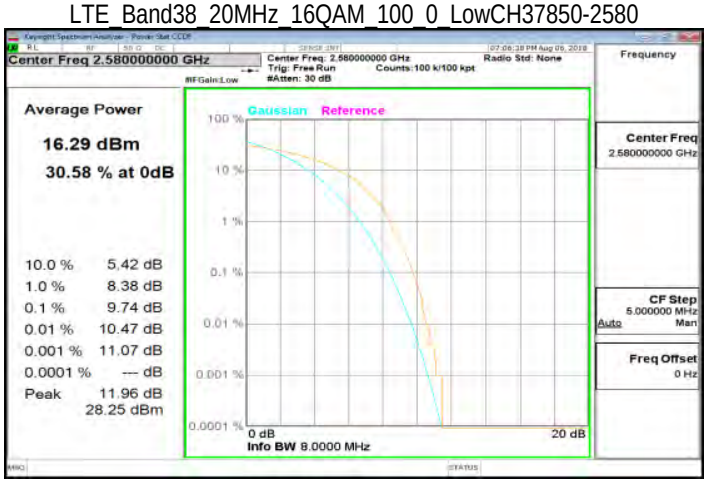

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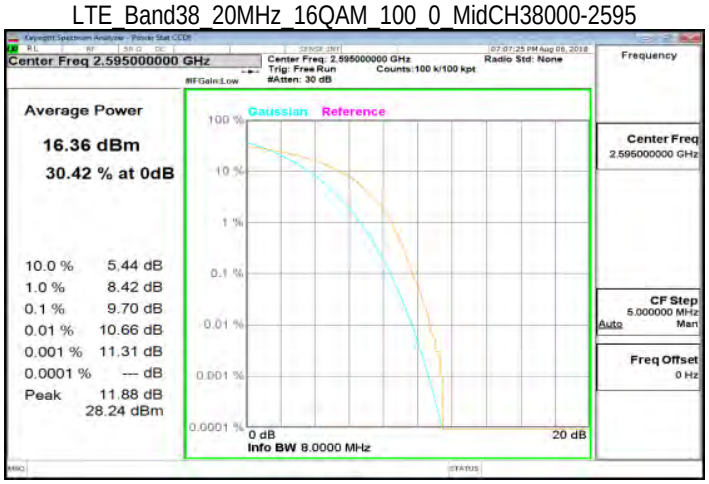
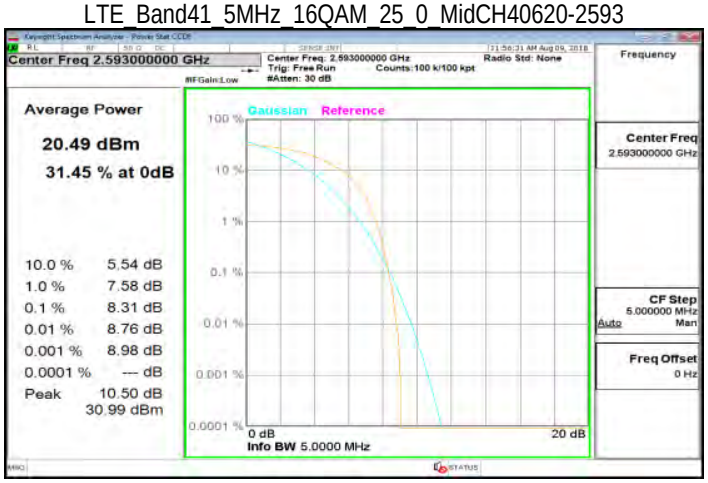
LTE_Band38_20MHz_16QAM_100_0_MidCH38000-2595



LTE_Band41_5MHz_16QAM_25_0_MidCH40620-2593



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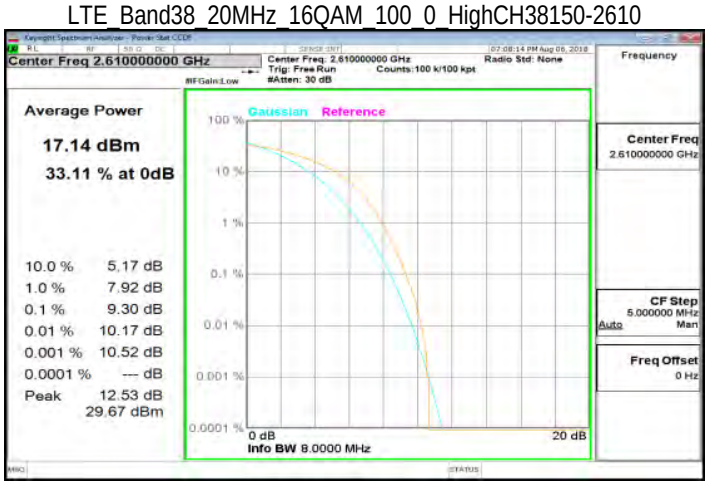

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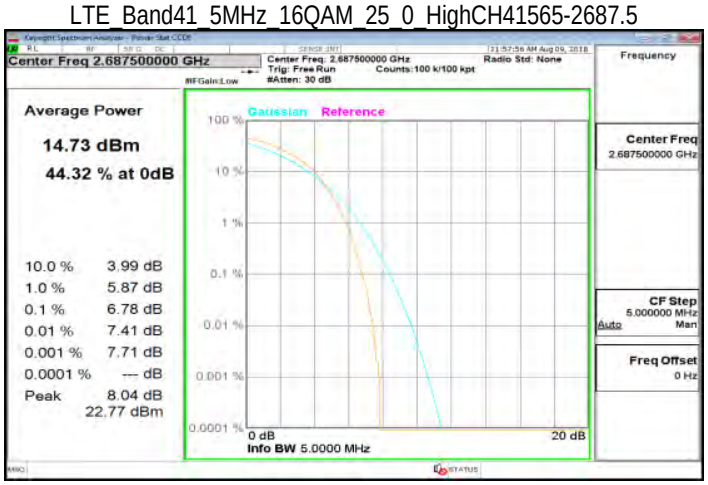

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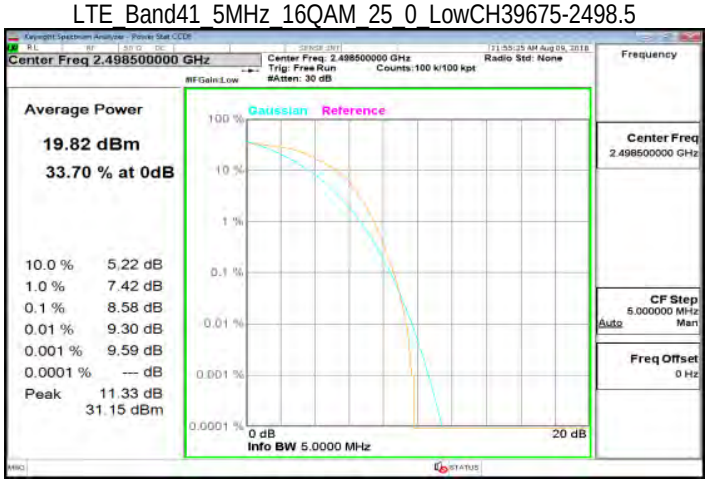

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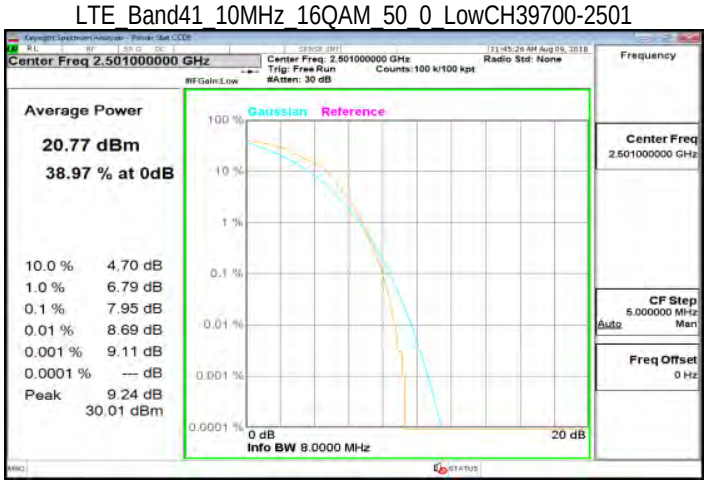

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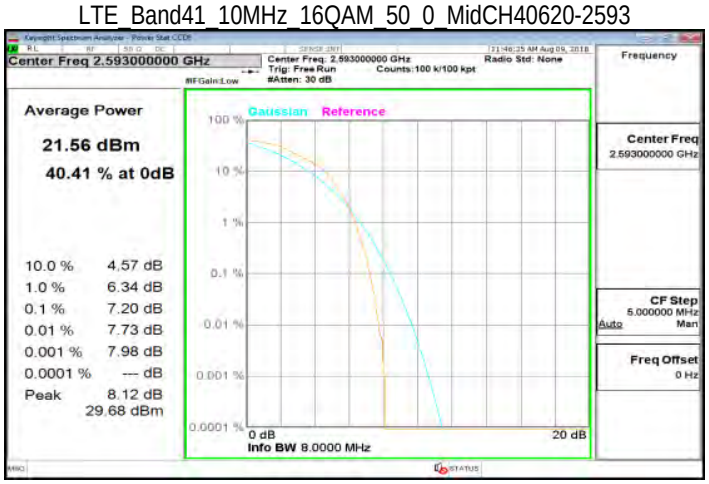
LTE_Band41_10MHz_16QAM_50_0_MidCH40620-2593



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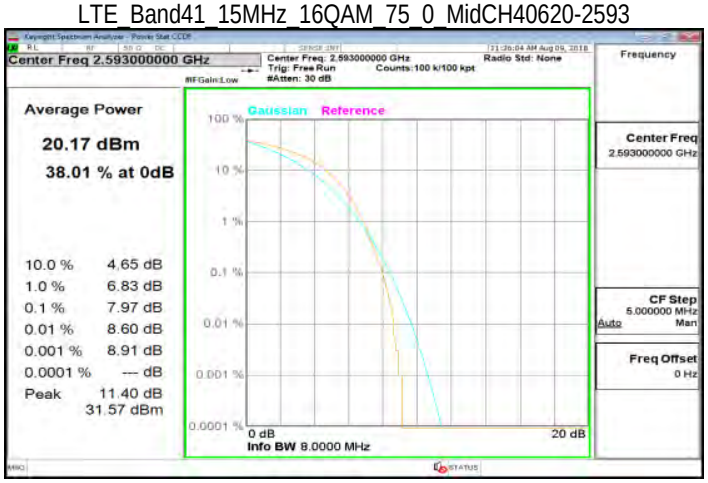

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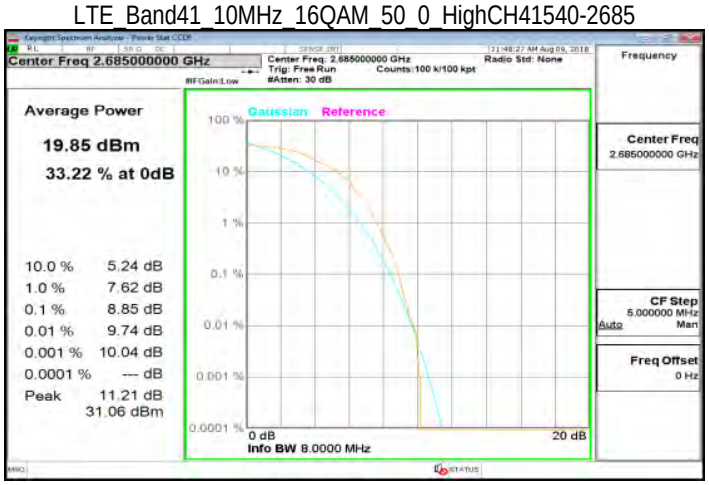

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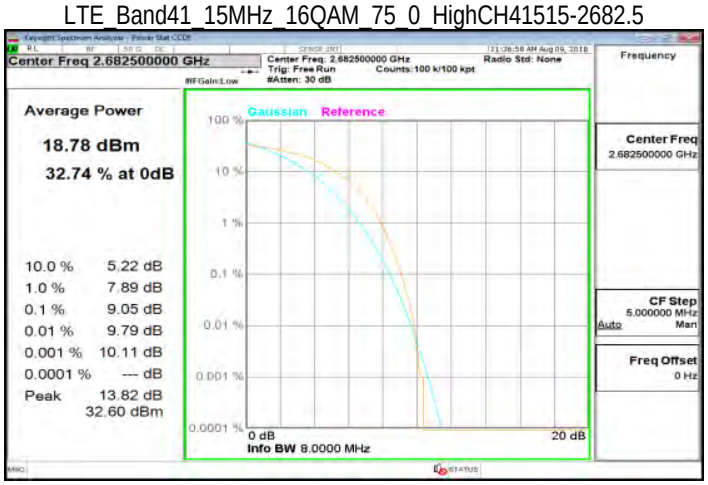
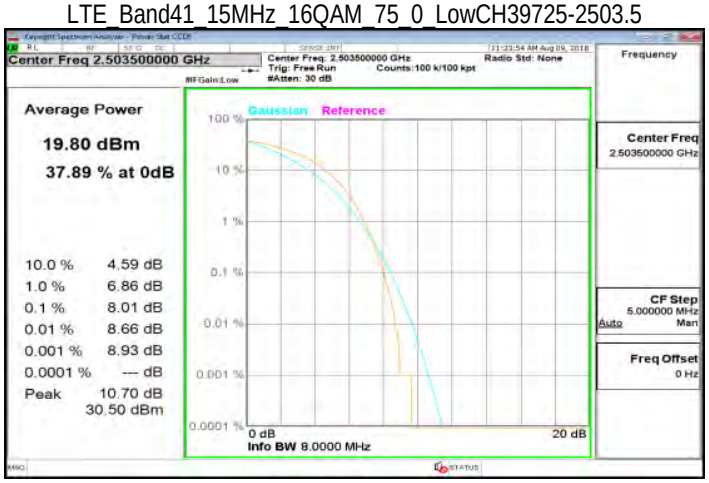


LTE_Band41_15MHz_16QAM_75_0_LowCH39725-2503.5



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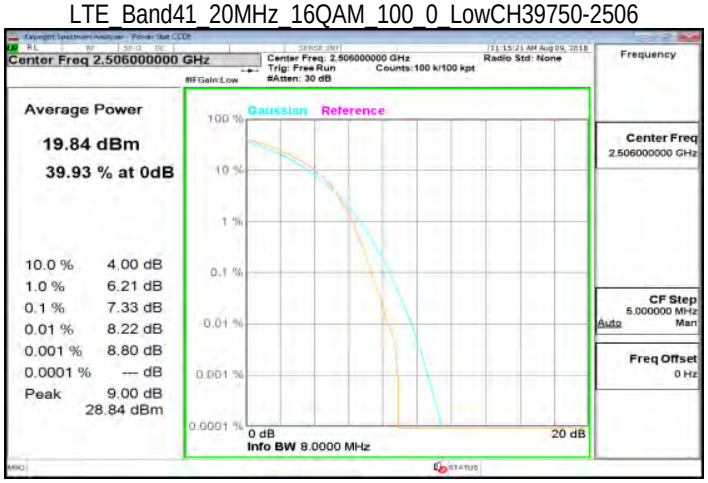

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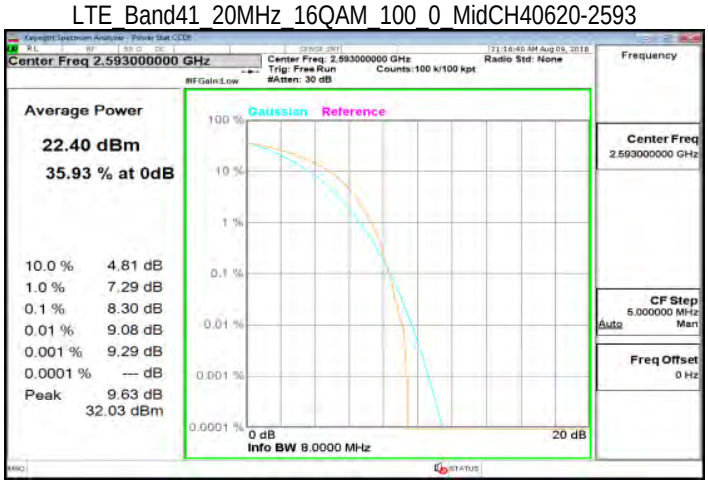
LTE_Band41_20MHz_16QAM_100_0_MidCH40620-2593



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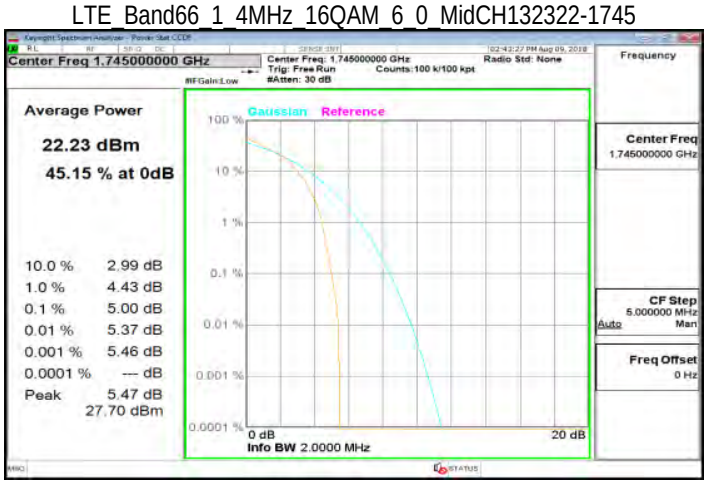

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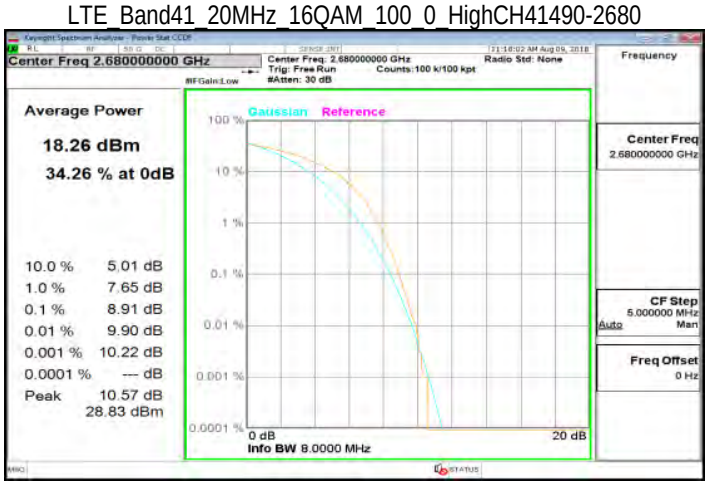

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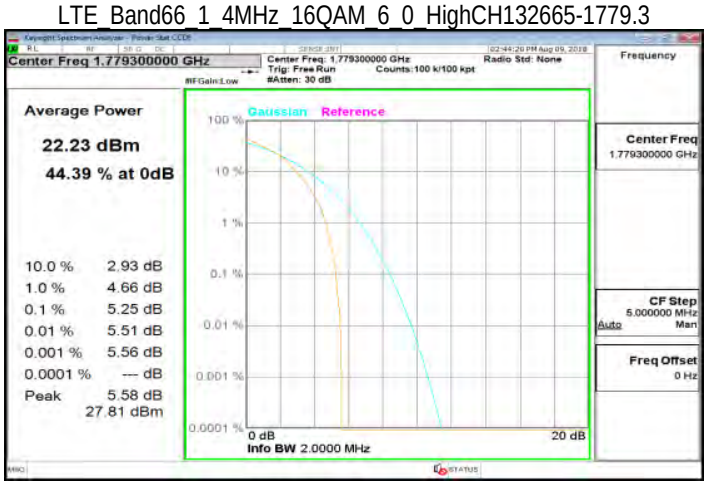

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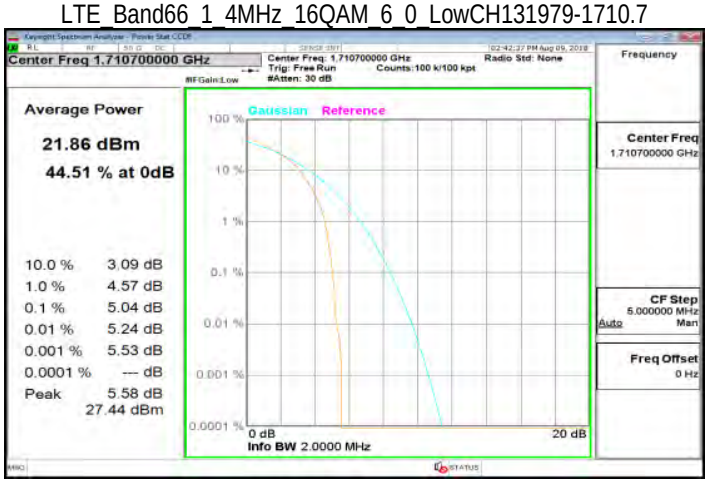

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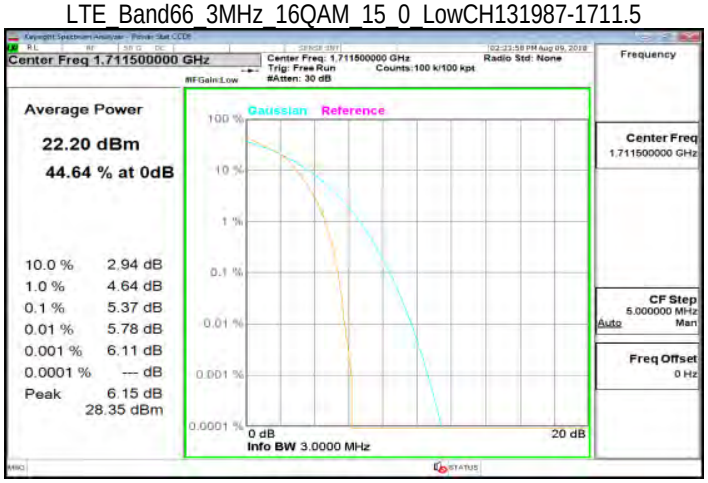

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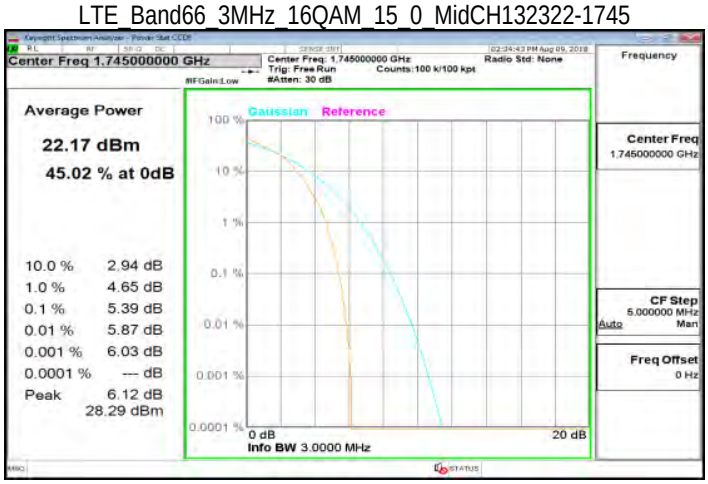
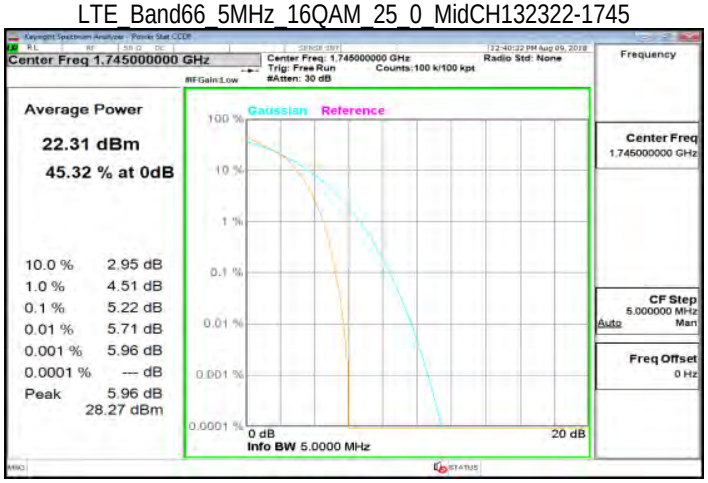
LTE_Band66_3MHz_16QAM_15_0_MidCH132322-1745



LTE_Band66_5MHz_16QAM_25_0_MidCH132322-1745



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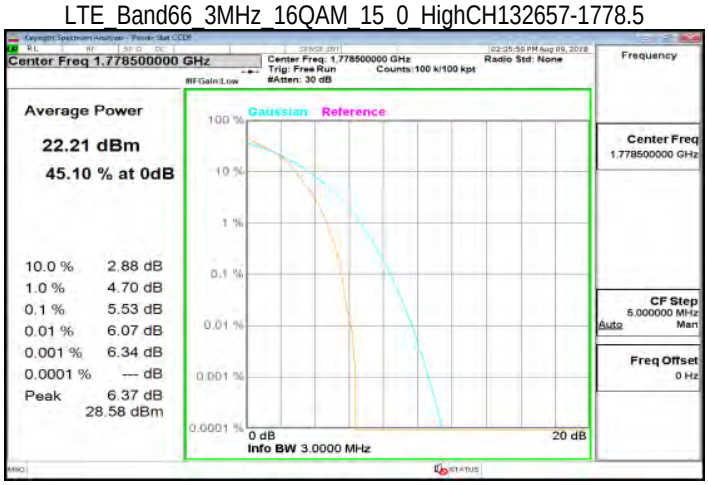

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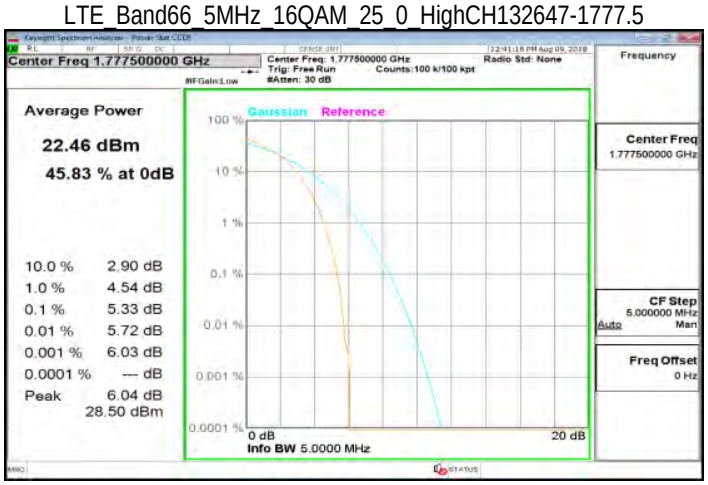

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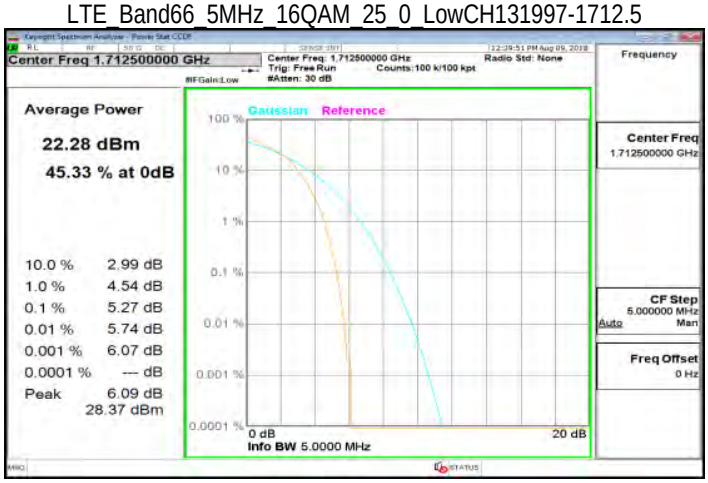

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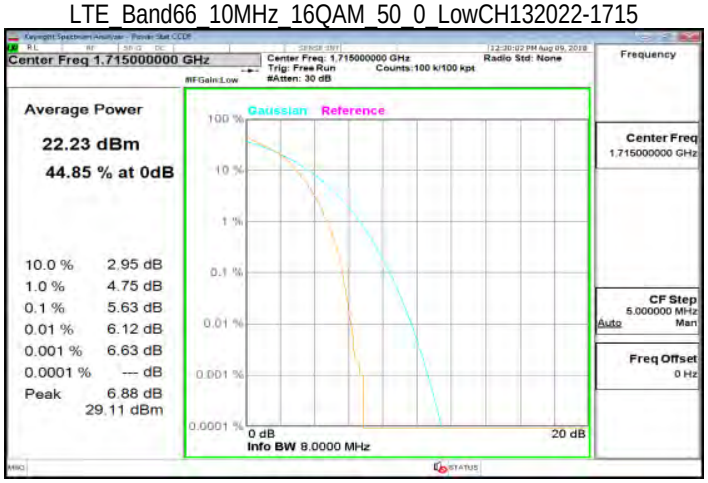

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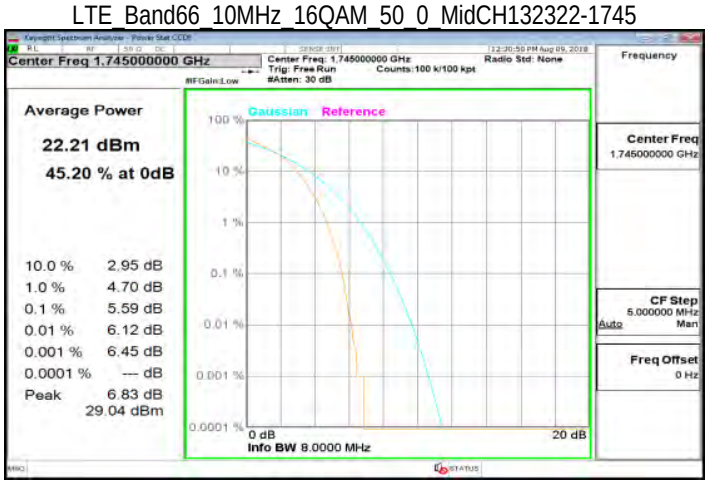
LTE_Band66_10MHz_16QAM_50_0_MidCH132322-1745



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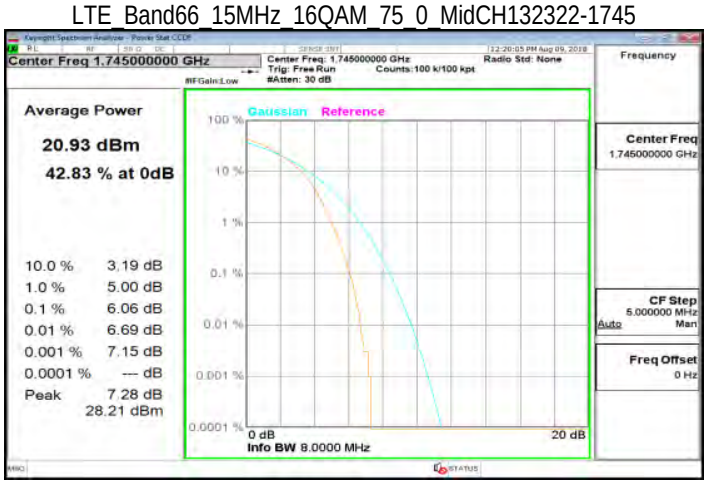

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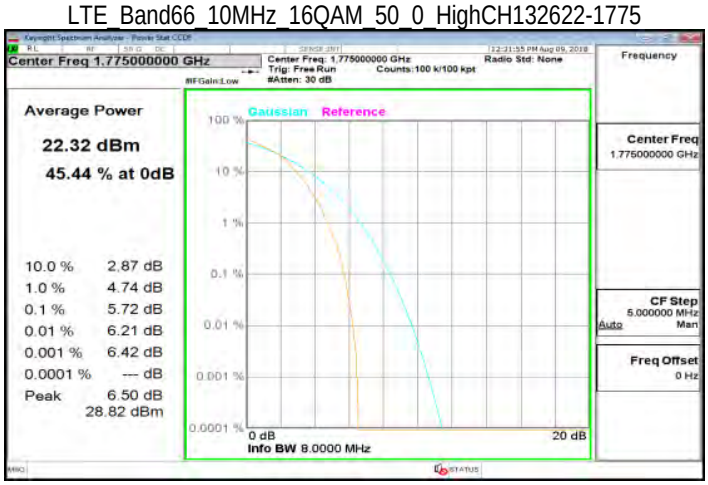

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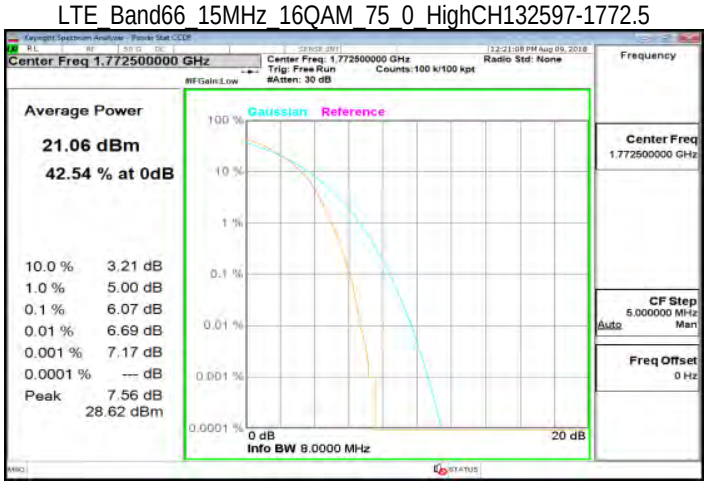

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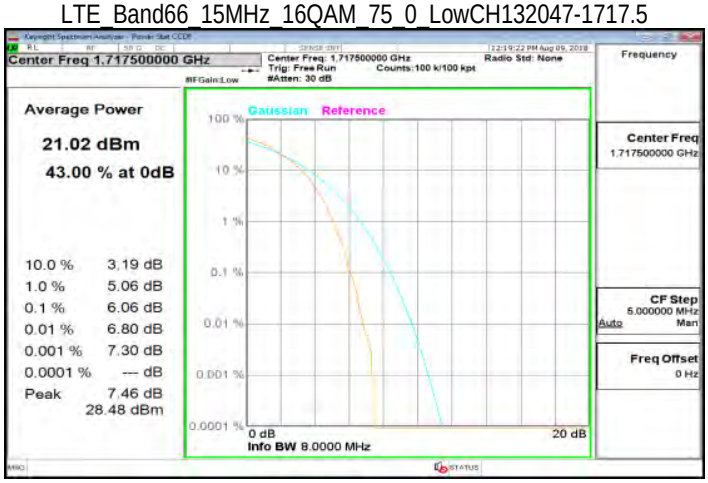
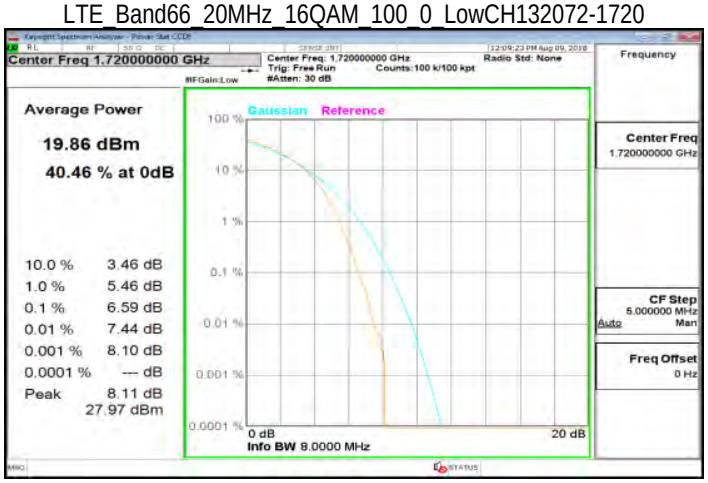


LTE_Band66_20MHz_16QAM_100_0_LowCH132072-1720



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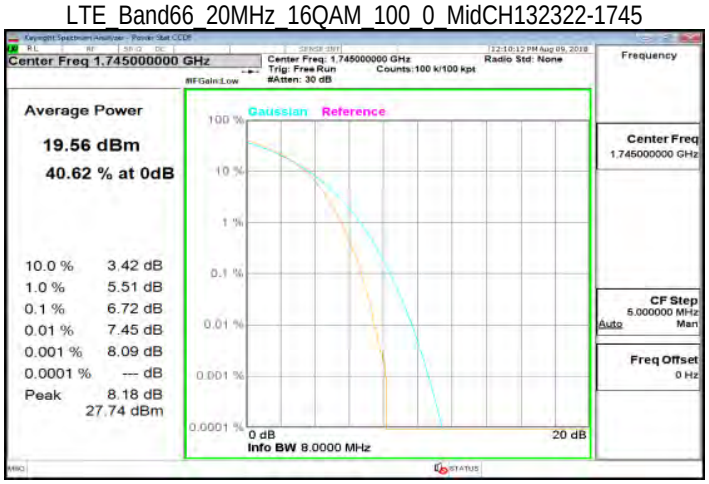
LTE_Band66_20MHz_16QAM_100_0_MidCH132322-1745



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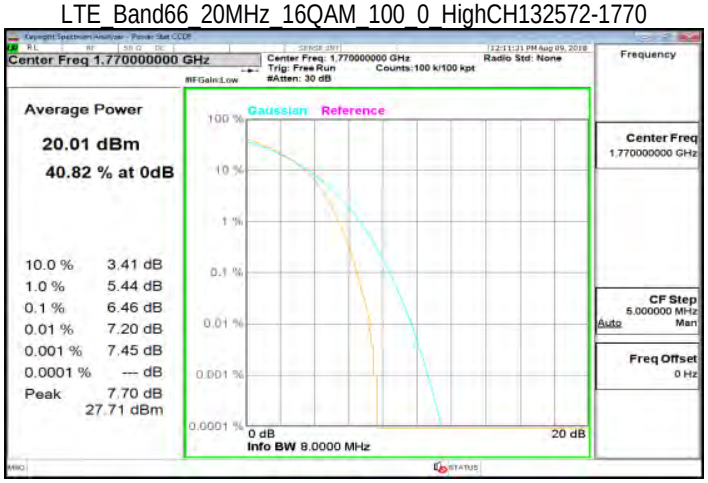

~ End of Report ~

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