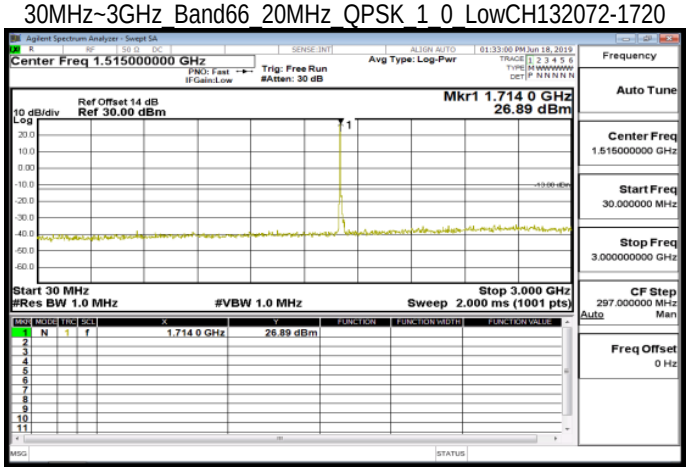
30MHz~3GHz_Band66_20MHz_QPSK_1_0_LowCH132072-1720



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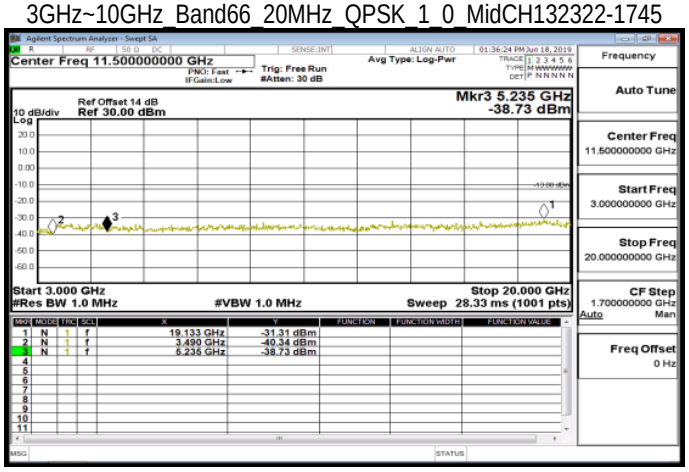

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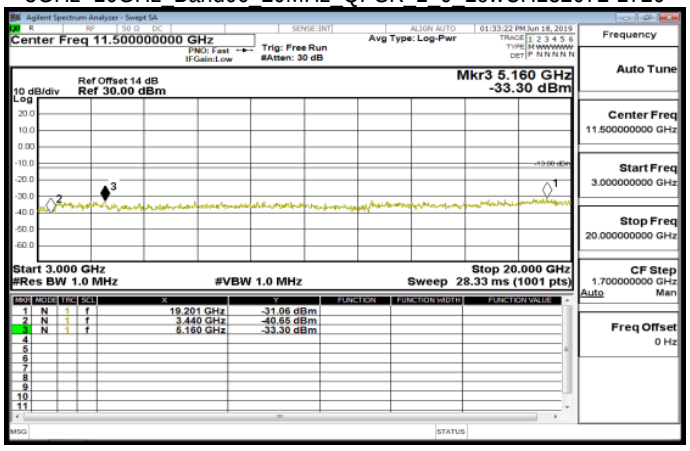

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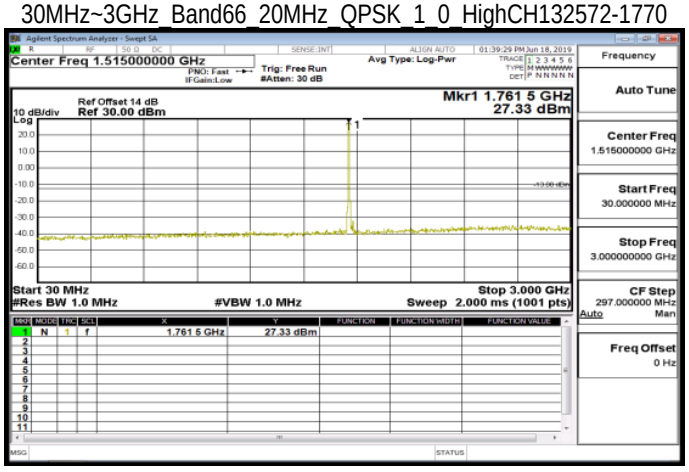
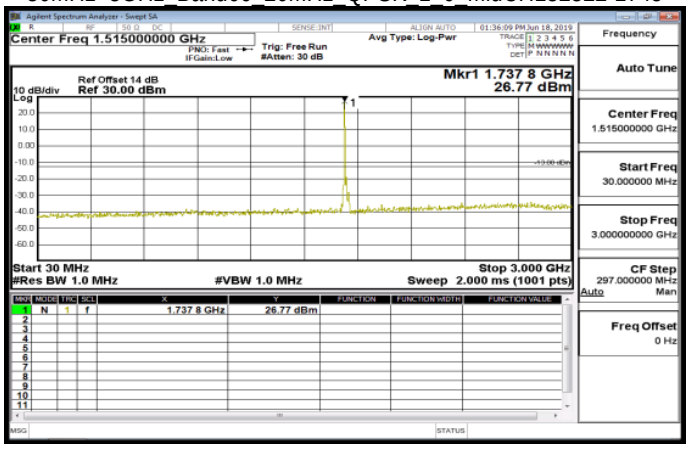
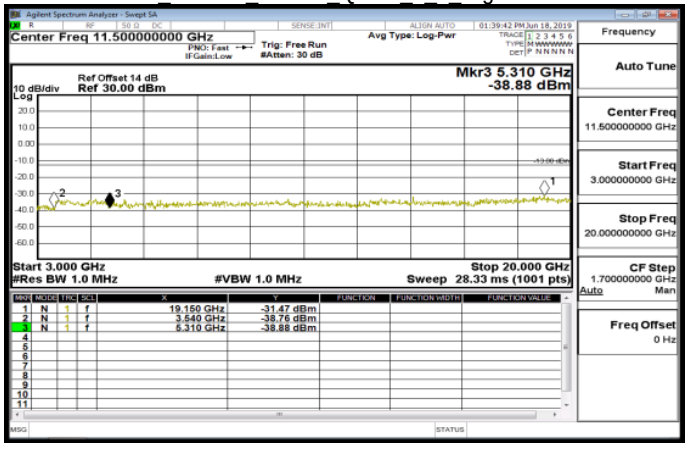


30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



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.

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.

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.

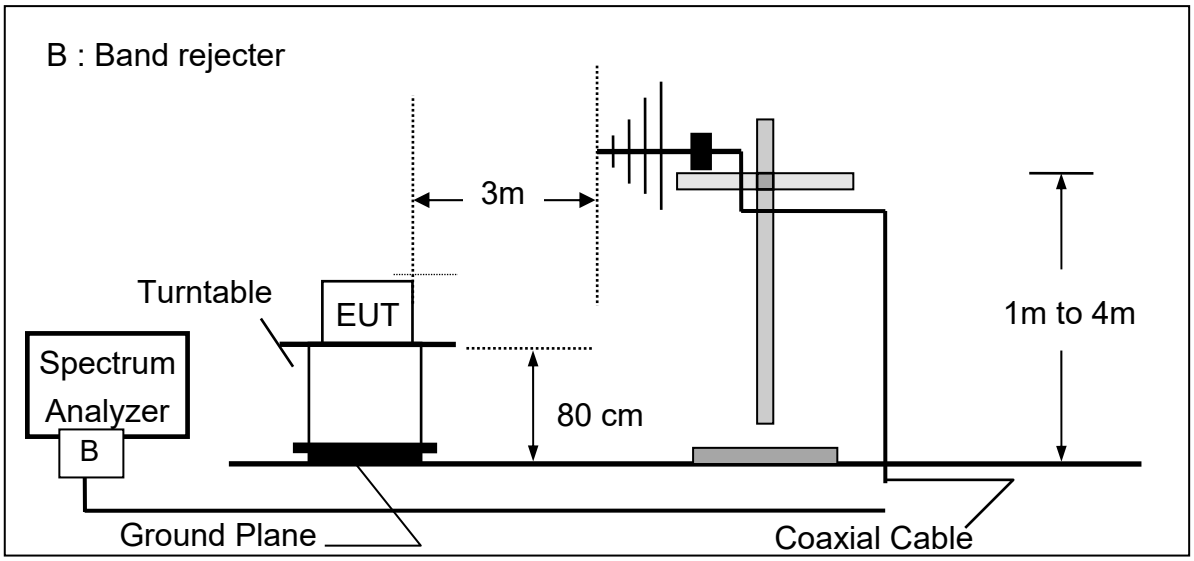
Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

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	$43 + 10 \log_{10}(p)$

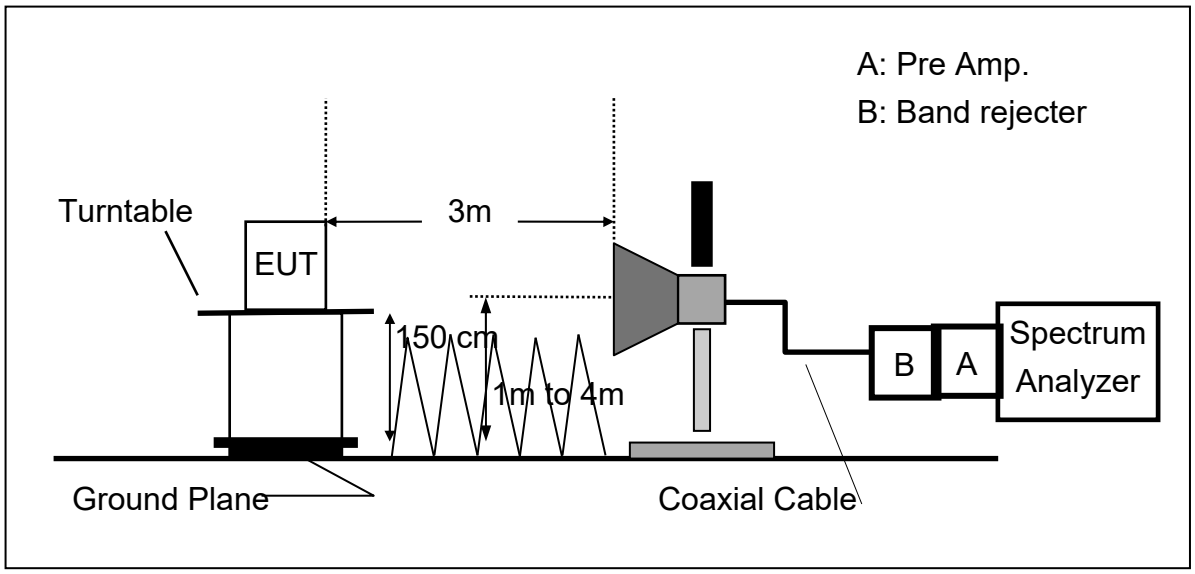
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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)

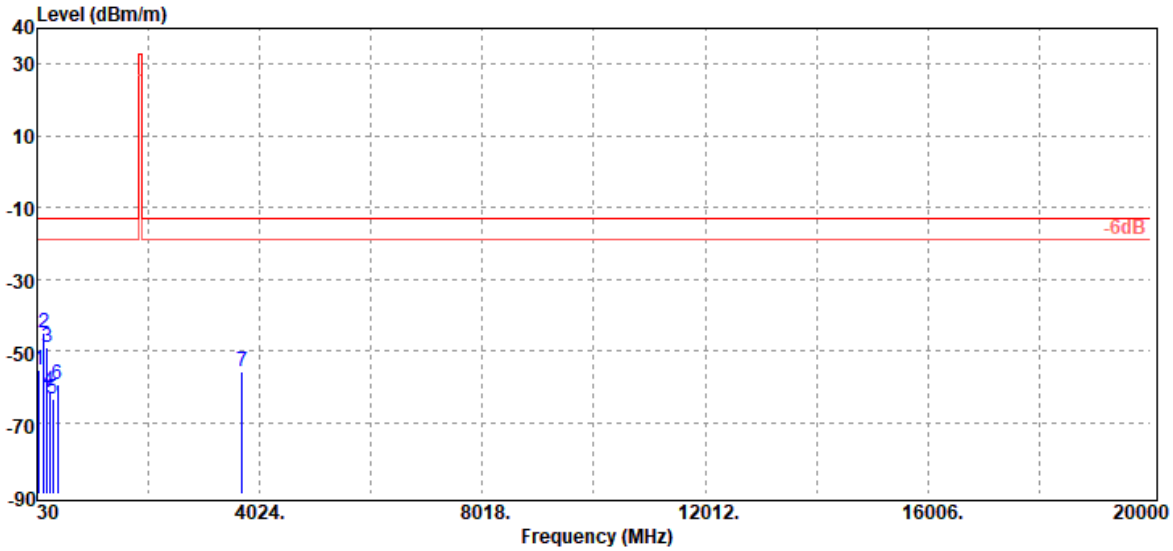
9.4. Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	EMEC	EM330	60609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	ETS LINDGREN	3116	26370	12/26/2018	12/25/2019
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
High Pass Filter	SOLVANG TECH-NOLOGY INC.	STI15	9923	02/26/2019	02/25/2020
High Pass Filters	MICRO TRONICS	HPM13195	3	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Digital Radio Commu-nication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Wireless Communica-tion Test Set	Agilent	8960/E5515C	MY48363204	07/23/2018	07/22/2019
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Signal Generator	Agilent	N5182B	MY56200007	08/13/2018	08/12/2019
Software	e3 V6.11-20180413				

9.5. Measurement Result:

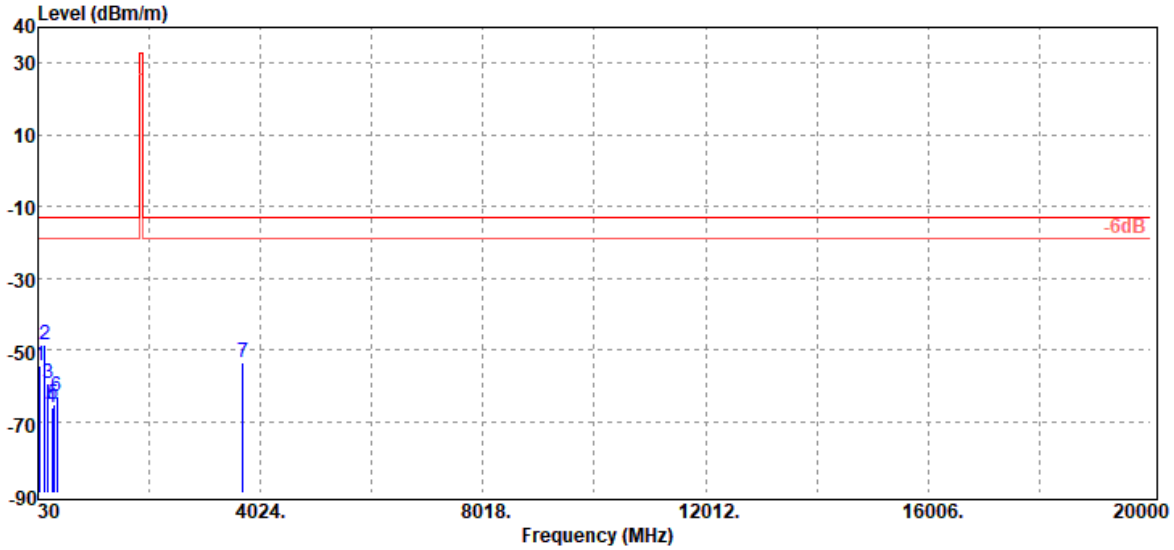
Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1852.4 MHz		



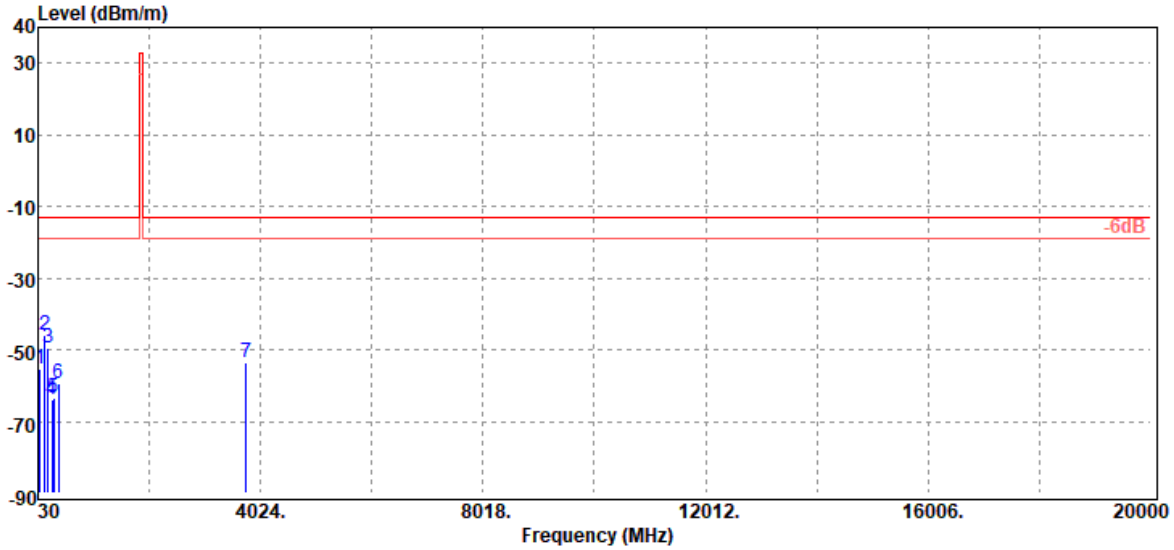
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-55.37	-45.07	-9.60	-0.70	-13.00	-42.37
153.19	-44.93	-37.19	-6.72	-1.02	-13.00	-31.93
207.51	-49.02	-45.39	-2.45	-1.18	-13.00	-36.02
257.95	-61.38	-58.34	-1.72	-1.32	-13.00	-48.38
309.36	-63.67	-60.23	-1.99	-1.45	-13.00	-50.67
393.75	-59.52	-56.33	-1.55	-1.64	-13.00	-46.52
3704.80	-55.68	-62.45	12.49	-5.72	-13.00	-42.68

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1852.4 MHz		



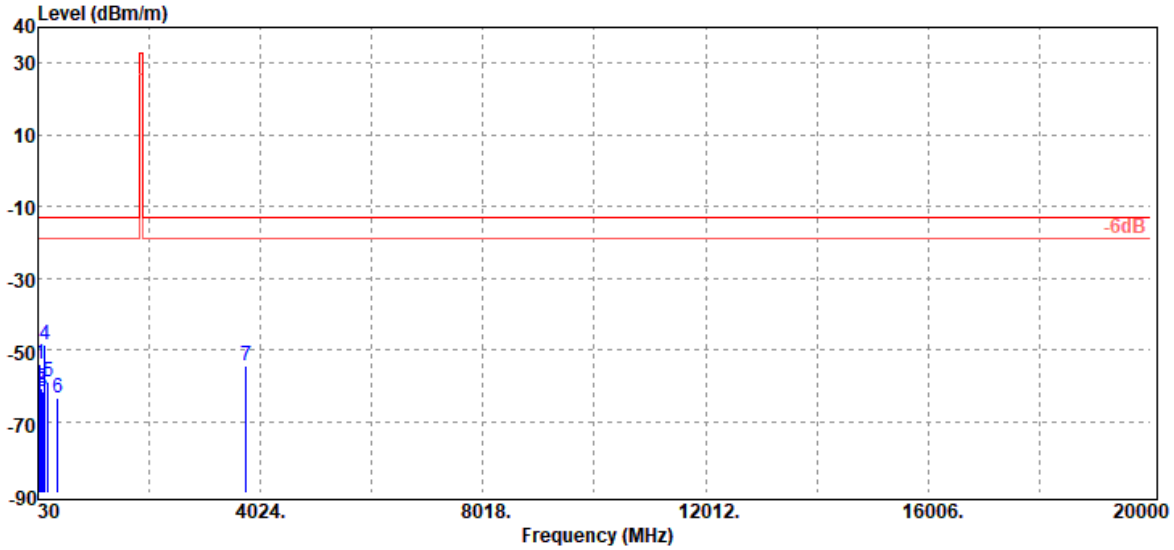
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.42	-44.12	-9.60	-0.70	-13.00	-41.42
154.16	-48.61	-40.81	-6.78	-1.02	-13.00	-35.61
206.54	-59.36	-55.60	-2.58	-1.18	-13.00	-46.36
279.29	-66.29	-62.31	-2.60	-1.38	-13.00	-53.29
309.36	-65.10	-61.66	-1.99	-1.45	-13.00	-52.10
372.41	-62.94	-59.59	-1.75	-1.60	-13.00	-49.94
3704.80	-53.57	-60.34	12.49	-5.72	-13.00	-40.57

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1880 MHz		



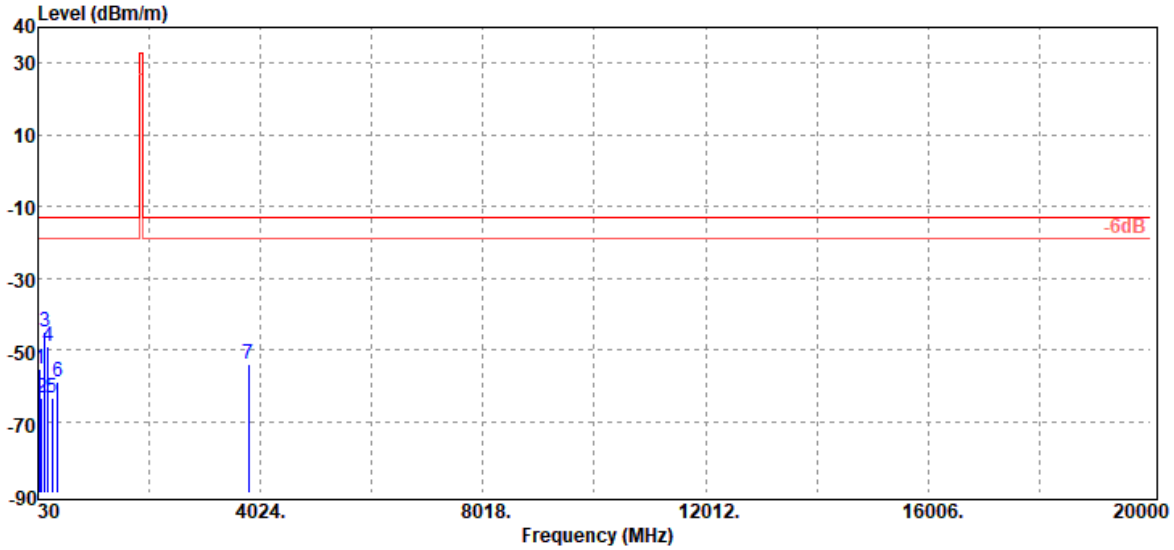
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-55.35	-45.05	-9.60	-0.70	-13.00	-42.35
153.19	-45.79	-38.05	-6.72	-1.02	-13.00	-32.79
209.45	-49.65	-46.28	-2.18	-1.19	-13.00	-36.65
280.26	-63.91	-59.94	-2.59	-1.38	-13.00	-50.91
309.36	-63.45	-60.01	-1.99	-1.45	-13.00	-50.45
393.75	-59.52	-56.33	-1.55	-1.64	-13.00	-46.52
3760.00	-53.44	-60.10	12.42	-5.76	-13.00	-40.44

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1880 MHz		



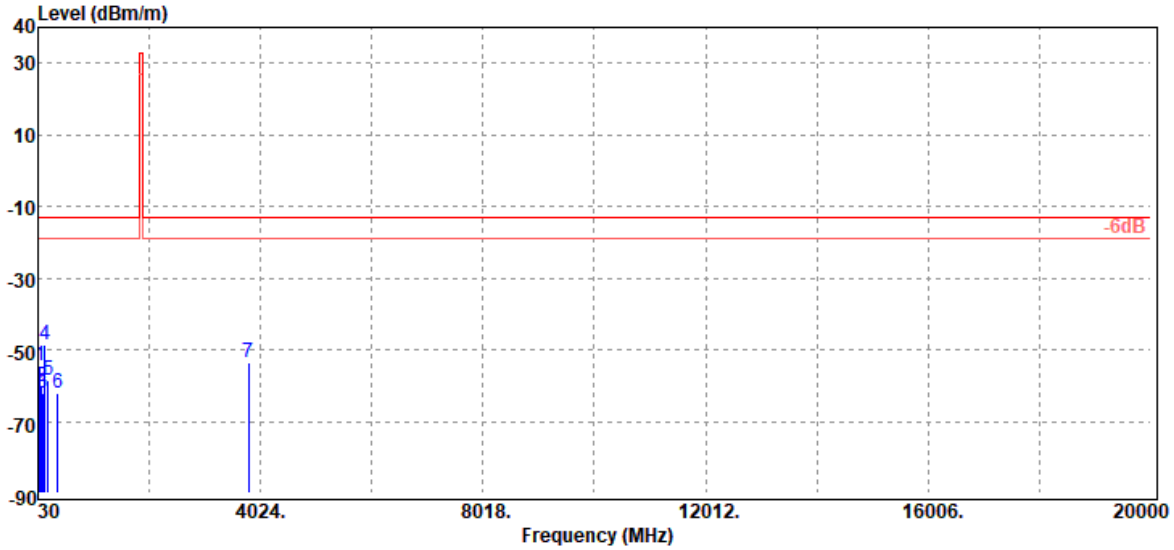
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-53.82	-43.53	-9.60	-0.69	-13.00	-40.82
90.14	-60.58	-52.81	-6.99	-0.78	-13.00	-47.58
107.60	-61.80	-51.45	-9.50	-0.85	-13.00	-48.80
154.16	-48.61	-40.81	-6.78	-1.02	-13.00	-35.61
206.54	-58.76	-55.00	-2.58	-1.18	-13.00	-45.76
377.26	-63.52	-60.30	-1.61	-1.61	-13.00	-50.52
3760.00	-54.26	-60.92	12.42	-5.76	-13.00	-41.26

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1907.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-55.58	-45.28	-9.60	-0.70	-13.00	-42.58
91.11	-63.68	-55.99	-6.91	-0.78	-13.00	-50.68
153.19	-44.83	-37.09	-6.72	-1.02	-13.00	-31.83
207.51	-49.23	-45.60	-2.45	-1.18	-13.00	-36.23
280.26	-63.36	-59.39	-2.59	-1.38	-13.00	-50.36
388.90	-59.18	-56.15	-1.40	-1.63	-13.00	-46.18
3815.20	-54.17	-60.84	12.47	-5.80	-13.00	-41.17

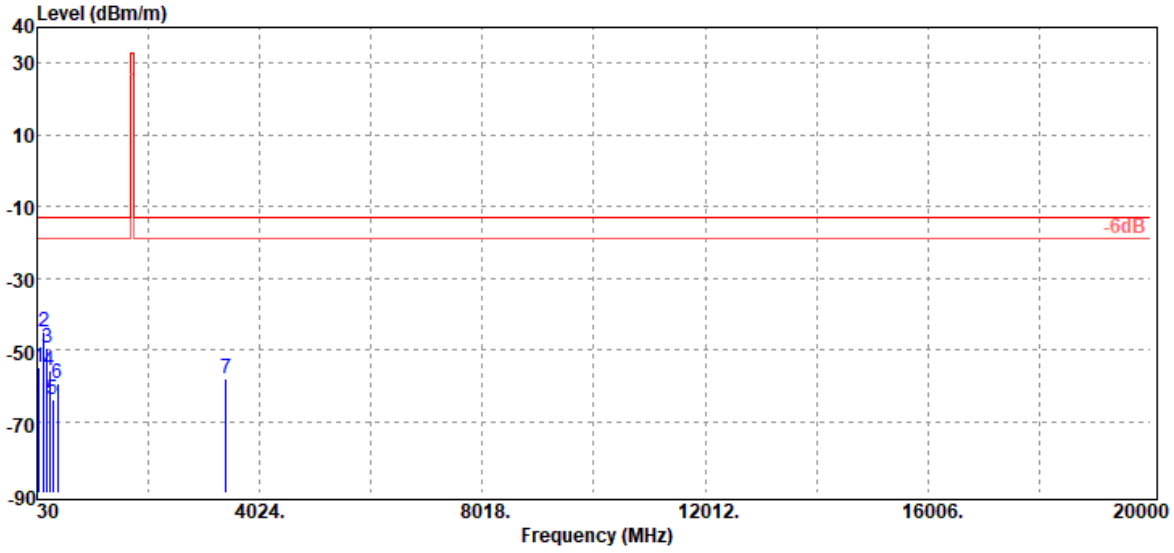
Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B2	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1907.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.43	-44.13	-9.60	-0.70	-13.00	-41.43
91.11	-60.25	-52.56	-6.91	-0.78	-13.00	-47.25
107.60	-61.93	-51.58	-9.50	-0.85	-13.00	-48.93
154.16	-48.80	-41.00	-6.78	-1.02	-13.00	-35.80
206.54	-58.45	-54.69	-2.58	-1.18	-13.00	-45.45
379.20	-62.19	-59.05	-1.53	-1.61	-13.00	-49.19
3815.20	-53.39	-60.06	12.47	-5.80	-13.00	-40.39

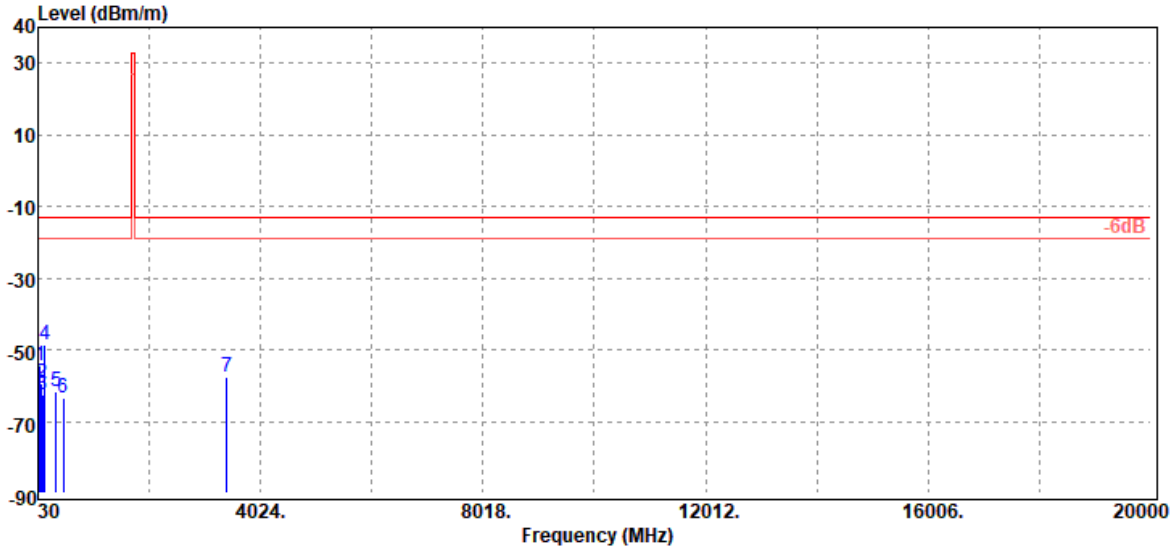
Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1712.4 MHz		



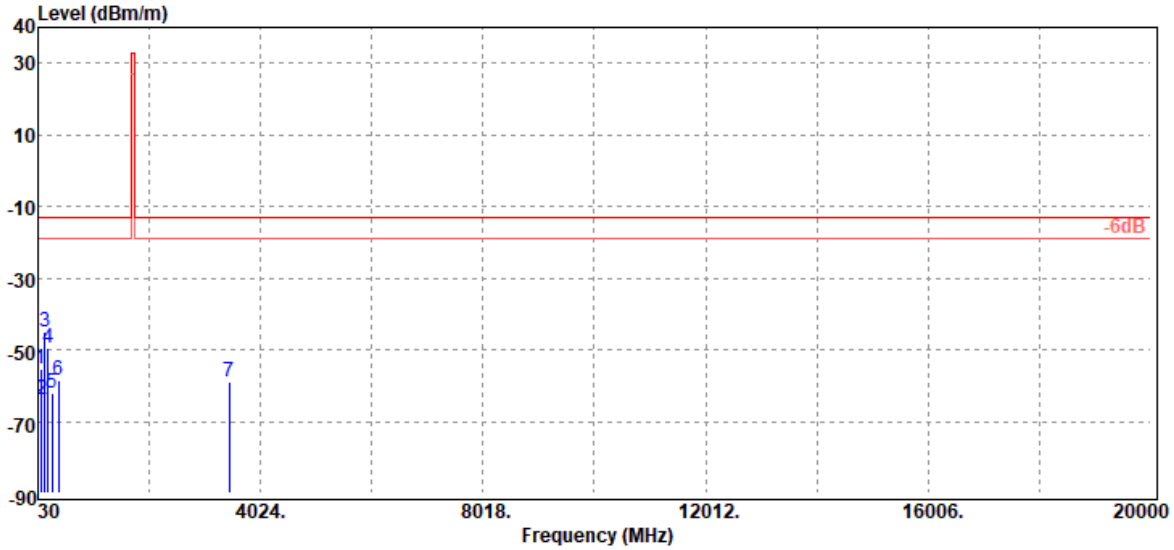
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-54.96	-44.66	-9.60	-0.70	-13.00	-41.96
153.19	-44.93	-37.19	-6.72	-1.02	-13.00	-31.93
211.39	-49.39	-46.10	-2.10	-1.19	-13.00	-36.39
248.25	-55.76	-52.63	-1.83	-1.30	-13.00	-42.76
309.36	-64.02	-60.58	-1.99	-1.45	-13.00	-51.02
393.75	-59.44	-56.25	-1.55	-1.64	-13.00	-46.44
3424.80	-58.20	-65.45	12.75	-5.50	-13.00	-45.20

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1712.4 MHz		



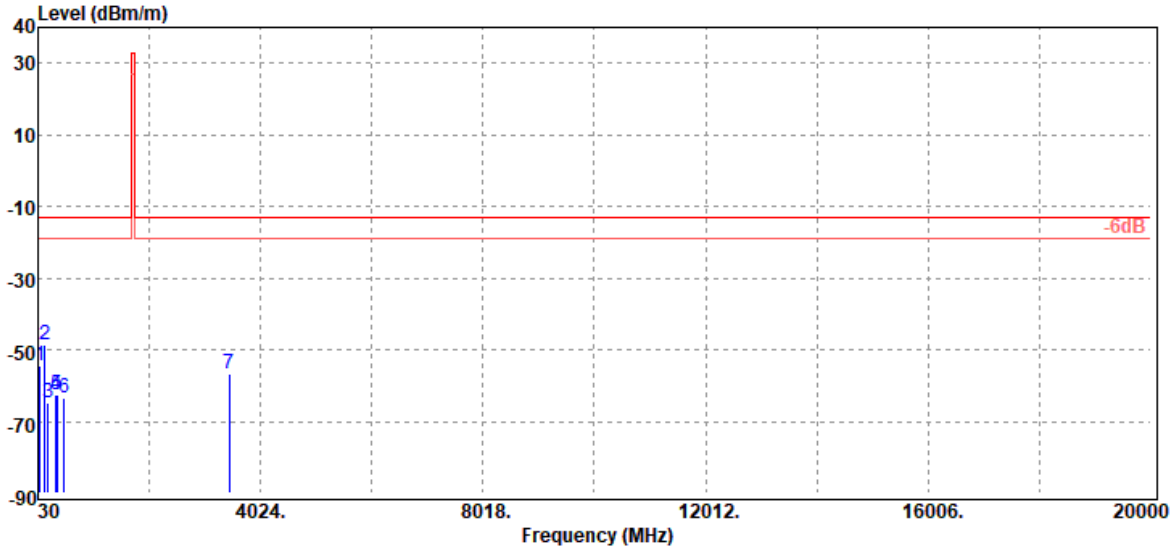
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.25	-43.95	-9.60	-0.70	-13.00	-41.25
93.05	-59.42	-51.43	-7.20	-0.79	-13.00	-46.42
109.54	-62.41	-51.70	-9.85	-0.86	-13.00	-49.41
154.16	-48.61	-40.81	-6.78	-1.02	-13.00	-35.61
361.74	-61.62	-58.25	-1.80	-1.57	-13.00	-48.62
479.11	-63.68	-59.46	-2.40	-1.82	-13.00	-50.68
3424.80	-57.51	-64.76	12.75	-5.50	-13.00	-44.51

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1732.6 MHz		



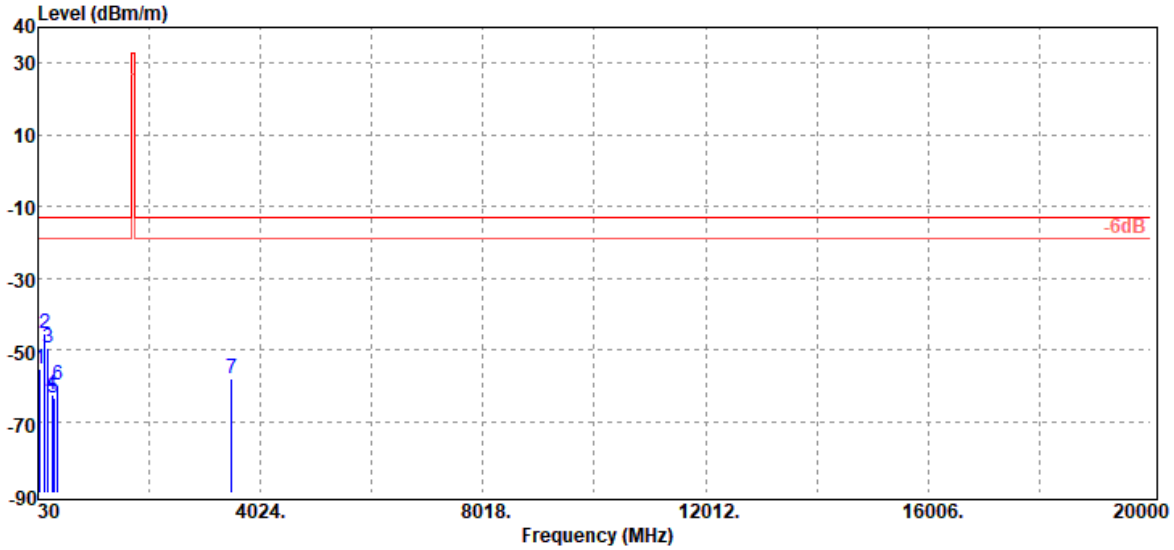
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
73.65	-55.38	-45.58	-9.10	-0.70	-13.00	-42.38
89.17	-64.07	-56.30	-7.00	-0.77	-13.00	-51.07
153.19	-45.09	-37.35	-6.72	-1.02	-13.00	-32.09
207.51	-49.53	-45.90	-2.45	-1.18	-13.00	-36.53
279.29	-61.95	-57.97	-2.60	-1.38	-13.00	-48.95
393.75	-58.65	-55.46	-1.55	-1.64	-13.00	-45.65
3465.20	-59.05	-66.16	12.64	-5.53	-13.00	-46.05

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1732.6 MHz		



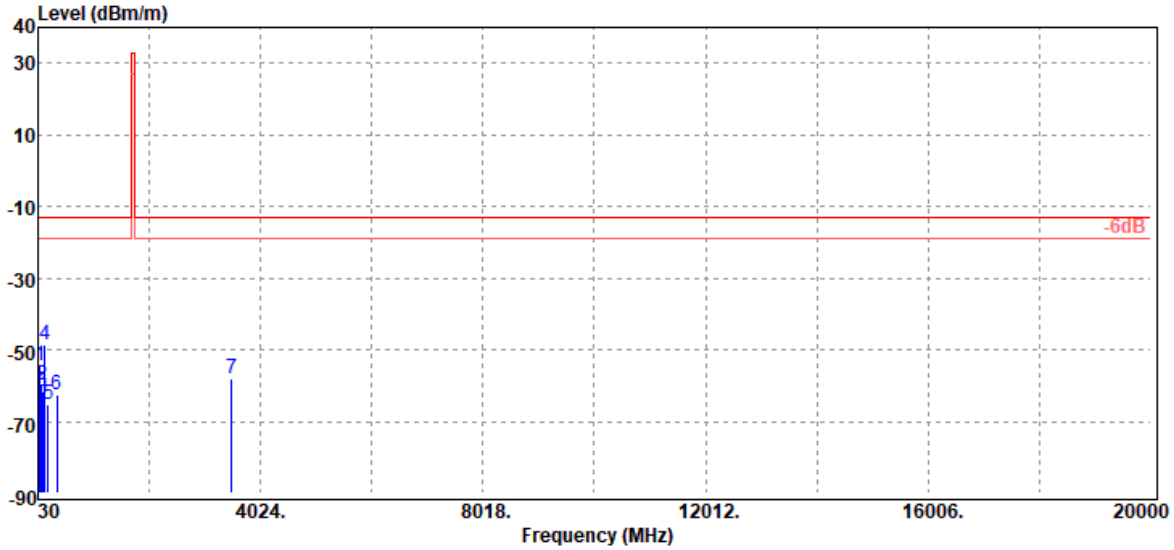
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.61	-44.31	-9.60	-0.70	-13.00	-41.61
153.19	-48.75	-41.01	-6.72	-1.02	-13.00	-35.75
204.60	-64.62	-60.48	-2.96	-1.18	-13.00	-51.62
350.10	-62.37	-59.32	-1.50	-1.55	-13.00	-49.37
369.50	-62.61	-59.22	-1.80	-1.59	-13.00	-49.61
495.60	-63.45	-59.59	-2.00	-1.86	-13.00	-50.45
3465.20	-56.84	-63.95	12.64	-5.53	-13.00	-43.84

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1752.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-55.50	-45.20	-9.60	-0.70	-13.00	-42.50
154.16	-45.25	-37.45	-6.78	-1.02	-13.00	-32.25
209.45	-49.57	-46.20	-2.18	-1.19	-13.00	-36.57
280.26	-62.74	-58.77	-2.59	-1.38	-13.00	-49.74
311.30	-63.59	-60.13	-2.00	-1.46	-13.00	-50.59
377.26	-59.82	-56.60	-1.61	-1.61	-13.00	-46.82
3505.20	-58.21	-65.14	12.49	-5.56	-13.00	-45.21

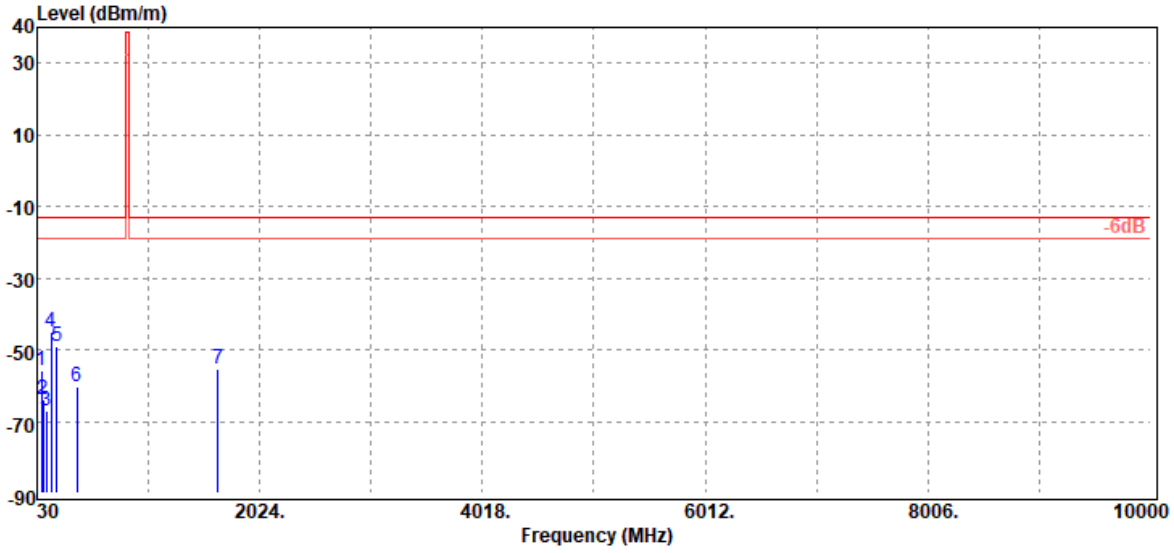
Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B4	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1752.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.37	-44.07	-9.60	-0.70	-13.00	-41.37
91.11	-60.05	-52.36	-6.91	-0.78	-13.00	-47.05
107.60	-61.47	-51.12	-9.50	-0.85	-13.00	-48.47
154.16	-48.47	-40.67	-6.78	-1.02	-13.00	-35.47
204.60	-65.11	-60.97	-2.96	-1.18	-13.00	-52.11
364.65	-62.76	-59.38	-1.80	-1.58	-13.00	-49.76
3505.20	-57.86	-64.79	12.49	-5.56	-13.00	-44.86

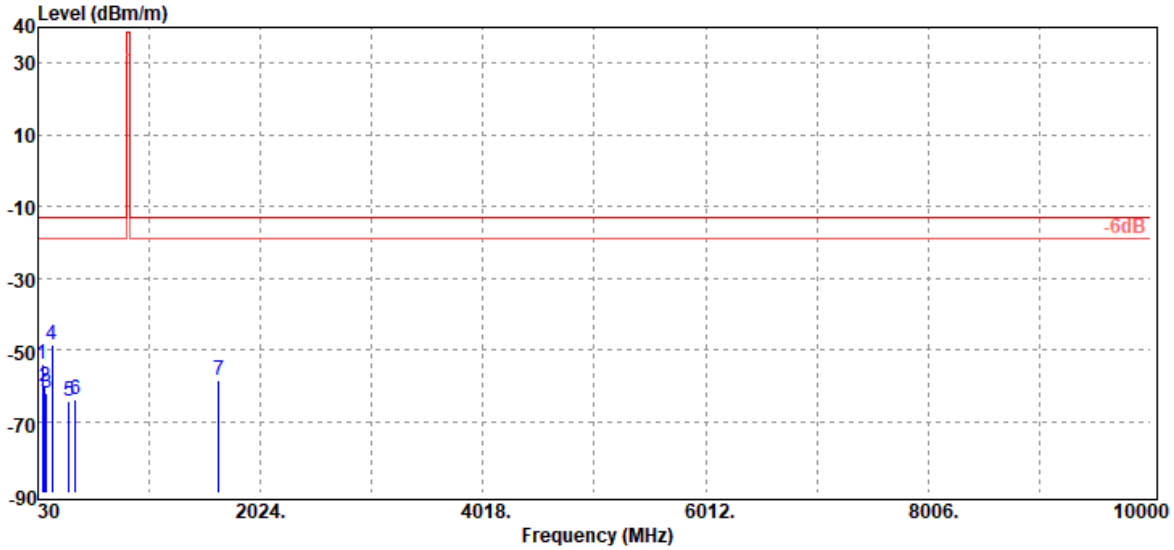
Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:826.4 MHz		



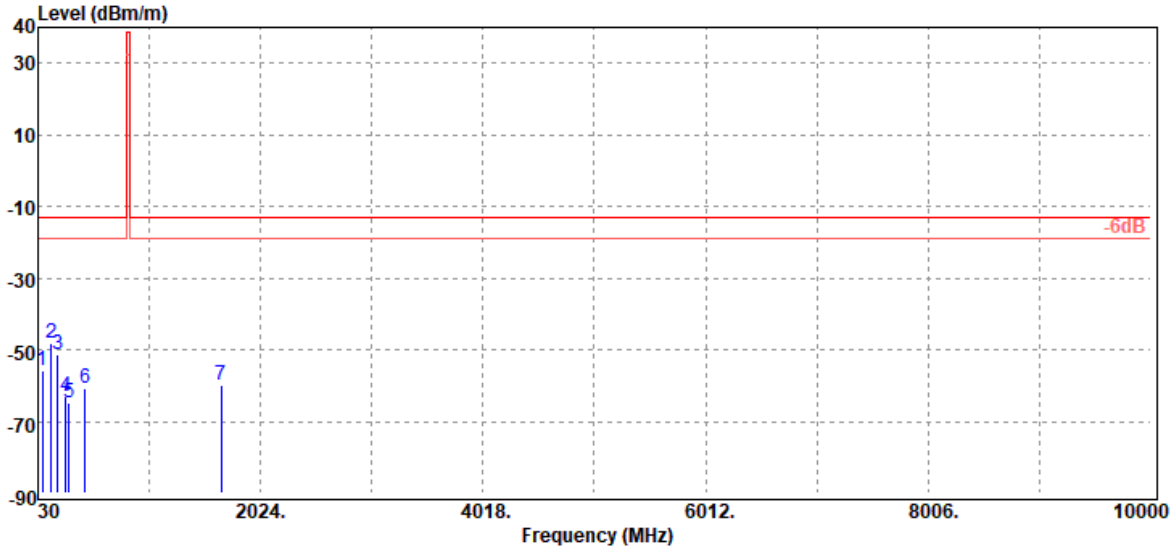
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-55.97	-45.67	-9.60	-0.70	-13.00	-42.97
86.26	-64.04	-55.73	-7.55	-0.76	-13.00	-51.04
109.54	-66.97	-56.26	-9.85	-0.86	-13.00	-53.97
153.19	-45.24	-37.50	-6.72	-1.02	-13.00	-32.24
209.45	-49.21	-45.84	-2.18	-1.19	-13.00	-36.21
388.90	-60.19	-57.16	-1.40	-1.63	-13.00	-47.19
1652.80	-55.34	-61.51	9.72	-3.55	-13.00	-42.34

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:826.4 MHz		



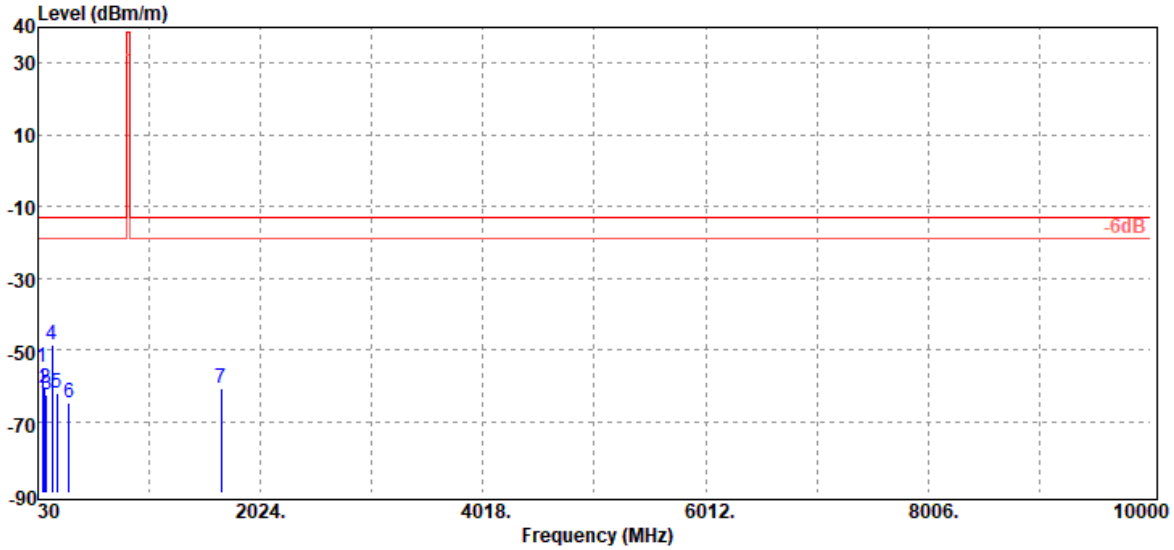
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.20	-43.90	-9.60	-0.70	-13.00	-41.20
90.14	-60.09	-52.32	-6.99	-0.78	-13.00	-47.09
107.60	-62.23	-51.88	-9.50	-0.85	-13.00	-49.23
154.16	-48.84	-41.04	-6.78	-1.02	-13.00	-35.84
309.36	-64.50	-61.06	-1.99	-1.45	-13.00	-51.50
366.59	-63.71	-60.33	-1.80	-1.58	-13.00	-50.71
1652.80	-58.53	-64.70	9.72	-3.55	-13.00	-45.53

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:836.6 MHz		



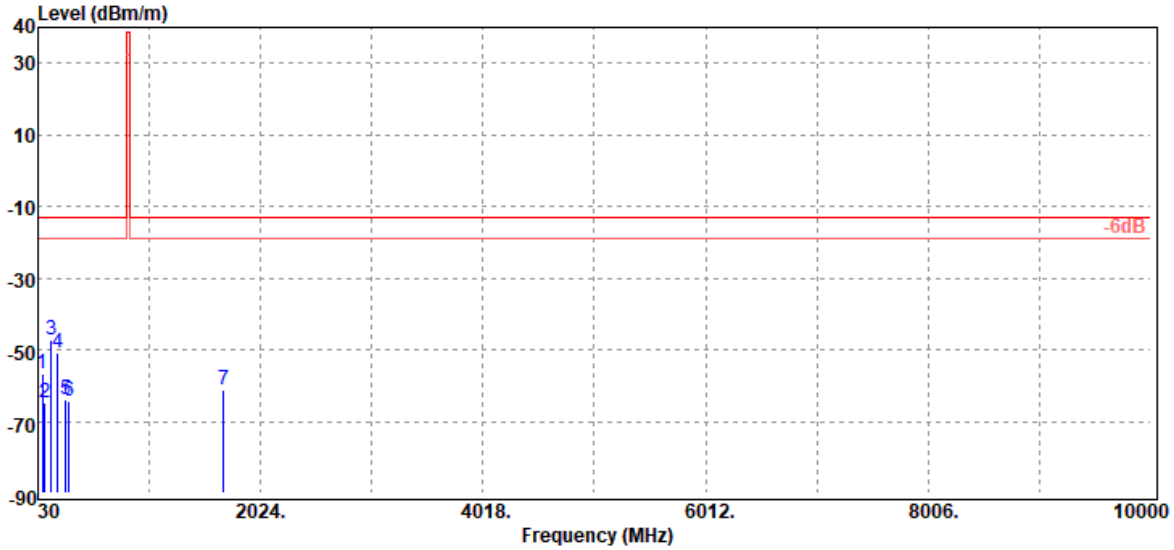
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-55.89	-45.59	-9.60	-0.70	-13.00	-42.89
151.25	-47.96	-39.90	-7.05	-1.01	-13.00	-34.96
209.45	-51.14	-47.77	-2.18	-1.19	-13.00	-38.14
279.29	-63.04	-59.06	-2.60	-1.38	-13.00	-50.04
309.36	-64.90	-61.46	-1.99	-1.45	-13.00	-51.90
454.86	-60.88	-57.01	-2.10	-1.77	-13.00	-47.88
1673.20	-59.87	-66.13	9.84	-3.58	-13.00	-46.87

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:836.6 MHz		



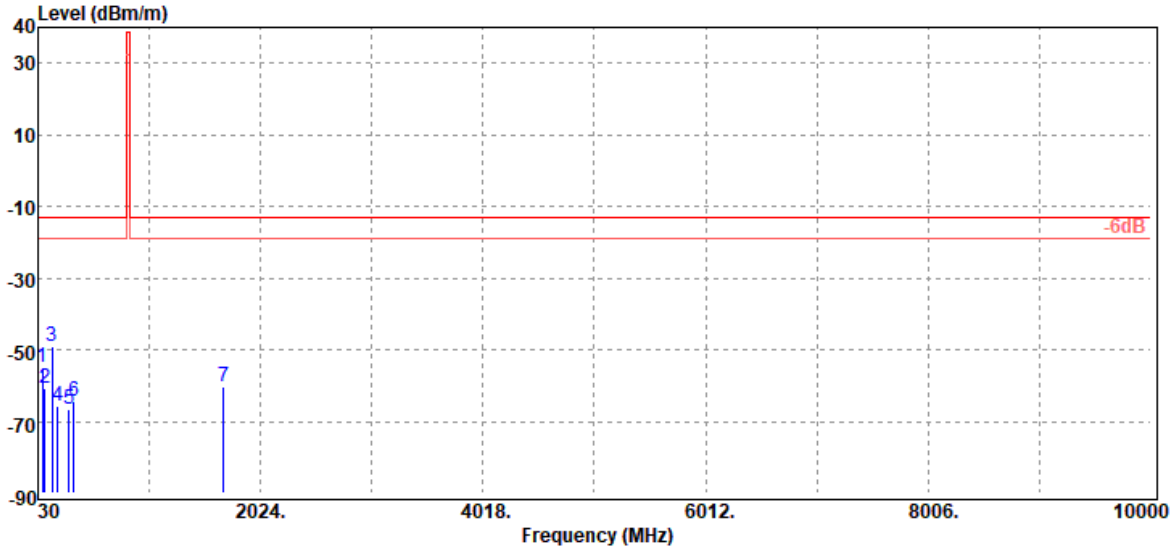
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-54.98	-44.69	-9.60	-0.69	-13.00	-41.98
91.11	-60.58	-52.89	-6.91	-0.78	-13.00	-47.58
107.60	-62.73	-52.38	-9.50	-0.85	-13.00	-49.73
153.19	-48.76	-41.02	-6.72	-1.02	-13.00	-35.76
202.66	-62.17	-57.26	-3.74	-1.17	-13.00	-49.17
311.30	-64.90	-61.44	-2.00	-1.46	-13.00	-51.90
1673.20	-60.62	-66.88	9.84	-3.58	-13.00	-47.62

Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:846.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.58	-46.28	-9.60	-0.70	-13.00	-43.58
90.14	-64.89	-57.12	-6.99	-0.78	-13.00	-51.89
151.25	-47.47	-39.41	-7.05	-1.01	-13.00	-34.47
209.45	-51.03	-47.66	-2.18	-1.19	-13.00	-38.03
279.29	-63.98	-60.00	-2.60	-1.38	-13.00	-50.98
309.36	-64.15	-60.71	-1.99	-1.45	-13.00	-51.15
1693.20	-61.16	-67.52	9.96	-3.60	-13.00	-48.16

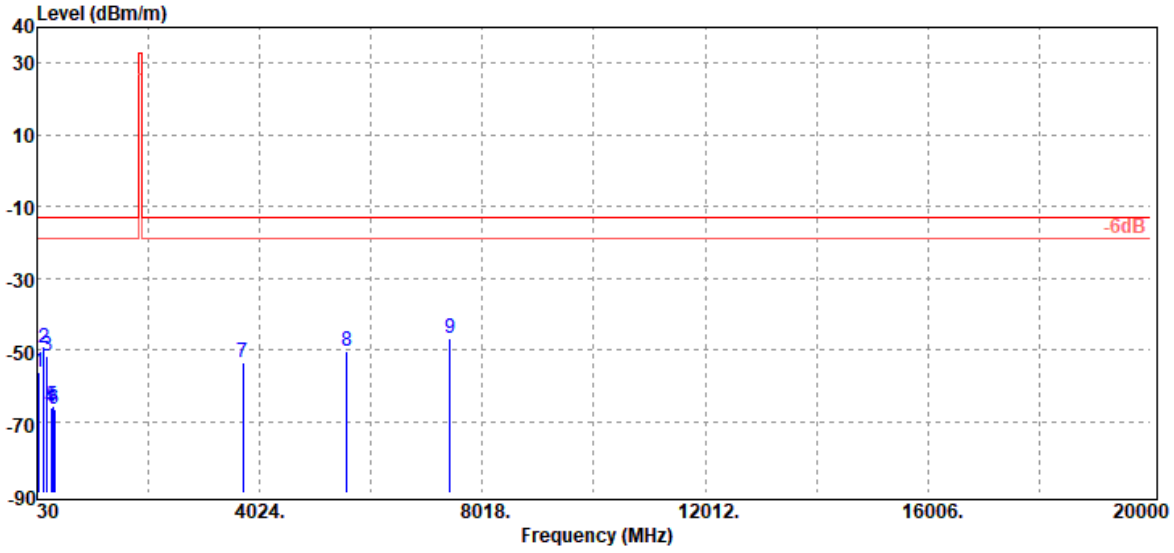
Project Number	:T190611W02	Test Date	:2019-06-20
Operation Mode	:WCDMA B5	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:846.6 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-54.82	-44.52	-9.60	-0.70	-13.00	-41.82
90.14	-60.67	-52.90	-6.99	-0.78	-13.00	-47.67
154.16	-49.04	-41.24	-6.78	-1.02	-13.00	-36.04
204.60	-65.67	-61.53	-2.96	-1.18	-13.00	-52.67
309.36	-66.51	-63.07	-1.99	-1.45	-13.00	-53.51
353.01	-64.45	-61.46	-1.44	-1.55	-13.00	-51.45
1693.20	-60.17	-66.53	9.96	-3.60	-13.00	-47.17

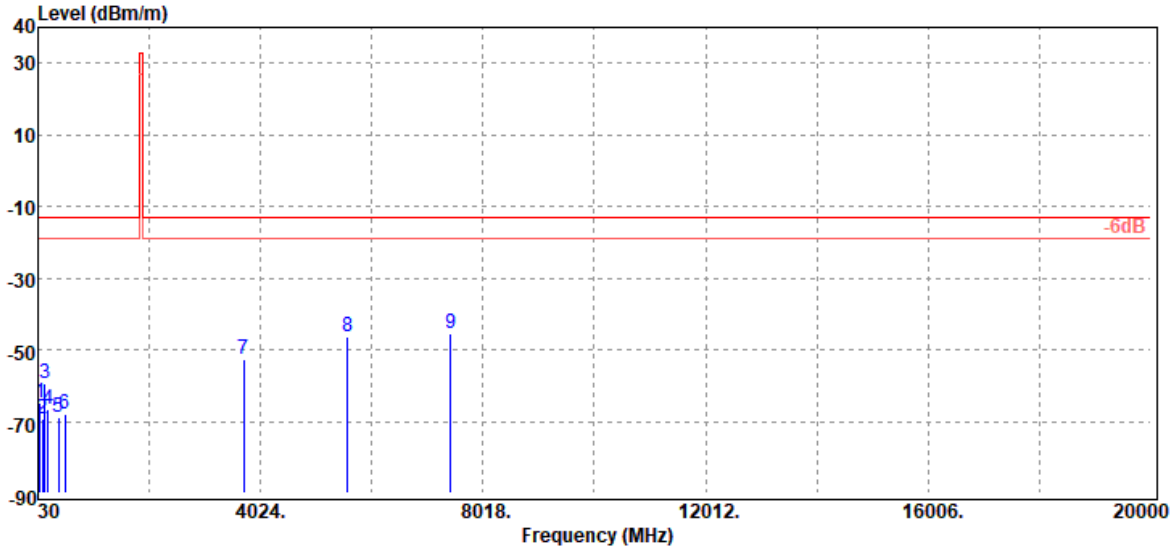
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1860 MHz		



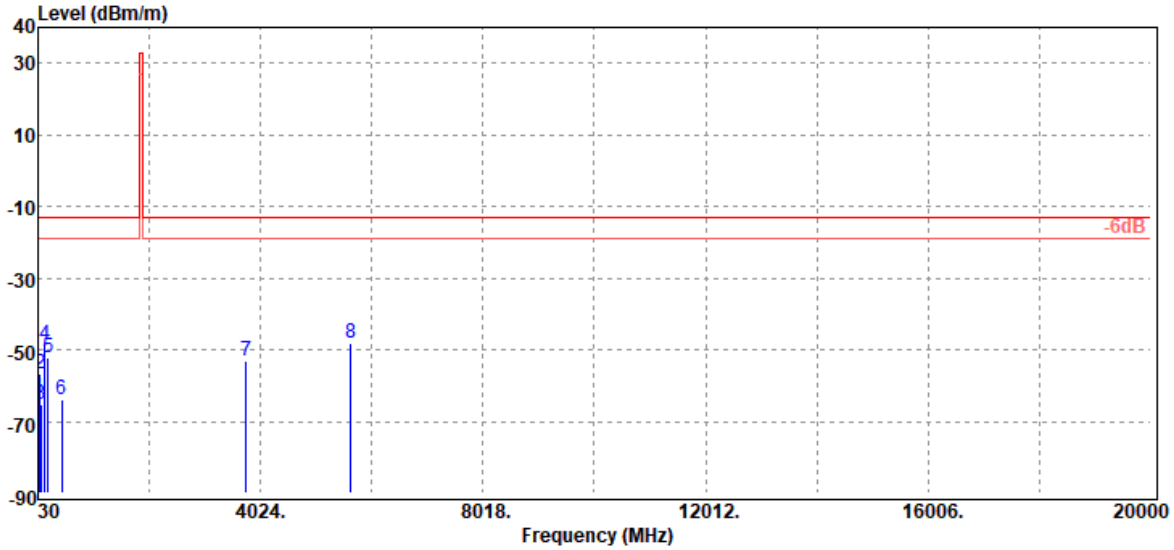
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.35	-46.05	-9.60	-0.70	-13.00	-43.35
151.25	-49.50	-41.44	-7.05	-1.01	-13.00	-36.50
206.54	-51.64	-47.88	-2.58	-1.18	-13.00	-38.64
279.29	-66.32	-62.34	-2.60	-1.38	-13.00	-53.32
309.36	-65.82	-62.38	-1.99	-1.45	-13.00	-52.82
340.40	-66.63	-63.60	-1.50	-1.53	-13.00	-53.63
3720.00	-53.74	-60.47	12.46	-5.73	-13.00	-40.74
5580.00	-50.35	-56.38	13.14	-7.11	-13.00	-37.35
7440.00	-46.95	-49.39	10.52	-8.08	-13.00	-33.95

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1860 MHz		



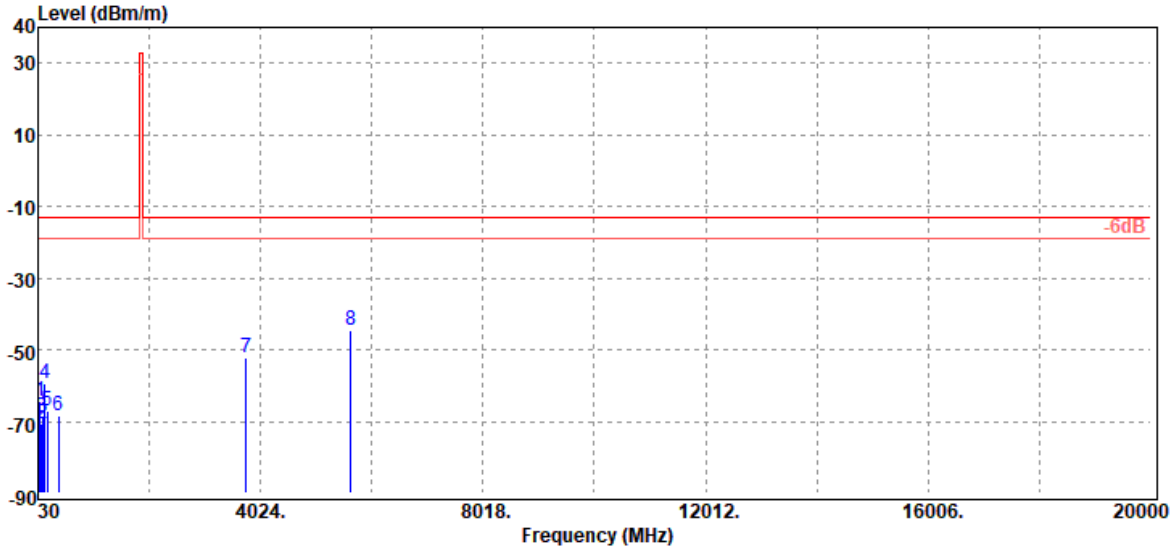
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.79	-54.49	-9.60	-0.70	-13.00	-51.79
109.54	-69.39	-58.68	-9.85	-0.86	-13.00	-56.39
154.16	-59.48	-51.68	-6.78	-1.02	-13.00	-46.48
205.57	-66.75	-62.85	-2.72	-1.18	-13.00	-53.75
393.75	-68.79	-65.60	-1.55	-1.64	-13.00	-55.79
516.94	-67.99	-64.63	-1.46	-1.90	-13.00	-54.99
3720.00	-52.58	-59.31	12.46	-5.73	-13.00	-39.58
5580.00	-46.40	-52.43	13.14	-7.11	-13.00	-33.40
7440.00	-45.42	-47.86	10.52	-8.08	-13.00	-32.42

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1880 MHz		



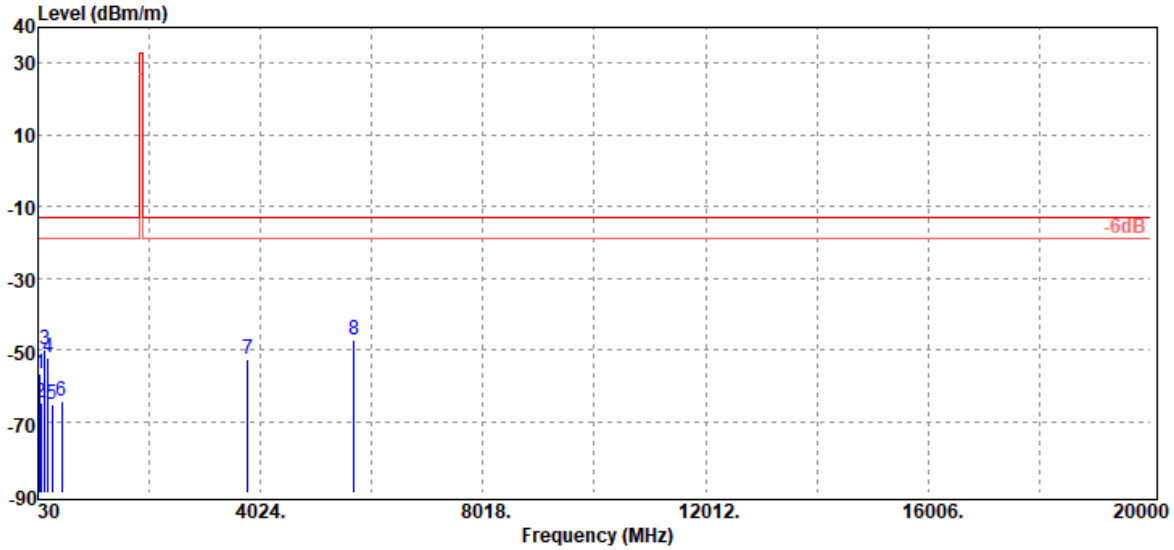
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-63.66	-36.00	-27.19	-0.47	-13.00	-50.66
70.74	-56.59	-46.30	-9.60	-0.69	-13.00	-43.59
85.29	-65.34	-56.78	-7.81	-0.75	-13.00	-52.34
154.16	-48.50	-40.70	-6.78	-1.02	-13.00	-35.50
205.57	-52.27	-48.37	-2.72	-1.18	-13.00	-39.27
454.86	-64.11	-60.24	-2.10	-1.77	-13.00	-51.11
3760.00	-53.14	-59.80	12.42	-5.76	-13.00	-40.14
5640.00	-48.37	-54.49	13.26	-7.14	-13.00	-35.37

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1880 MHz		



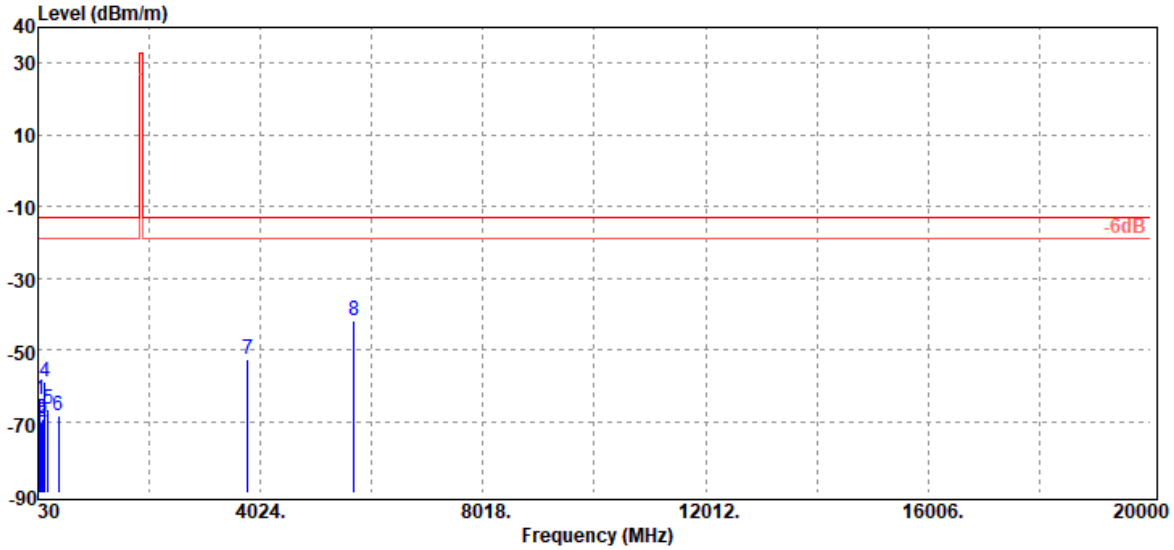
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.27	-53.97	-9.60	-0.70	-13.00	-51.27
91.11	-70.53	-62.84	-6.91	-0.78	-13.00	-57.53
109.54	-68.68	-57.97	-9.85	-0.86	-13.00	-55.68
149.31	-59.56	-51.39	-7.17	-1.00	-13.00	-46.56
201.69	-66.84	-61.55	-4.12	-1.17	-13.00	-53.84
396.66	-68.53	-65.25	-1.63	-1.65	-13.00	-55.53
3760.00	-52.06	-58.72	12.42	-5.76	-13.00	-39.06
5640.00	-44.44	-50.56	13.26	-7.14	-13.00	-31.44

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1900 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.72	-46.42	-9.60	-0.70	-13.00	-43.72
86.26	-64.93	-56.62	-7.55	-0.76	-13.00	-51.93
153.19	-49.95	-42.21	-6.72	-1.02	-13.00	-36.95
207.51	-52.09	-48.46	-2.45	-1.18	-13.00	-39.09
280.26	-65.29	-61.32	-2.59	-1.38	-13.00	-52.29
454.86	-64.23	-60.36	-2.10	-1.77	-13.00	-51.23
3800.00	-52.60	-59.31	12.50	-5.79	-13.00	-39.60
5700.00	-47.24	-53.17	13.10	-7.17	-13.00	-34.24

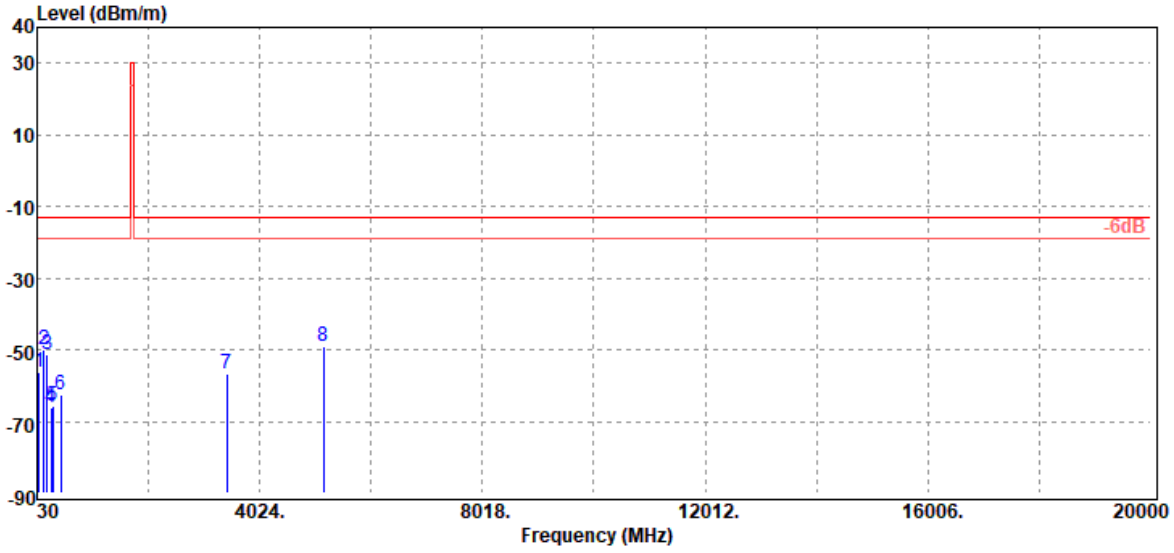
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B2 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1900 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-63.80	-53.50	-9.60	-0.70	-13.00	-50.80
90.14	-70.25	-62.48	-6.99	-0.78	-13.00	-57.25
107.60	-69.16	-58.81	-9.50	-0.85	-13.00	-56.16
152.22	-58.81	-50.94	-6.86	-1.01	-13.00	-45.81
204.60	-66.68	-62.54	-2.96	-1.18	-13.00	-53.68
396.66	-68.35	-65.07	-1.63	-1.65	-13.00	-55.35
3800.00	-52.67	-59.38	12.50	-5.79	-13.00	-39.67
5700.00	-41.81	-47.74	13.10	-7.17	-13.00	-28.81

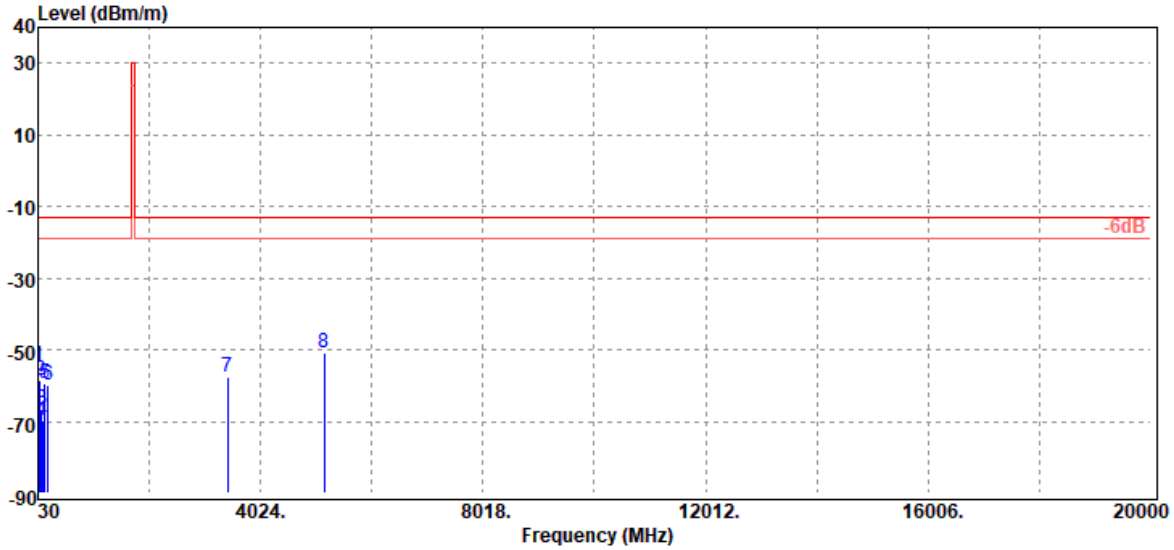
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1720 MHz		



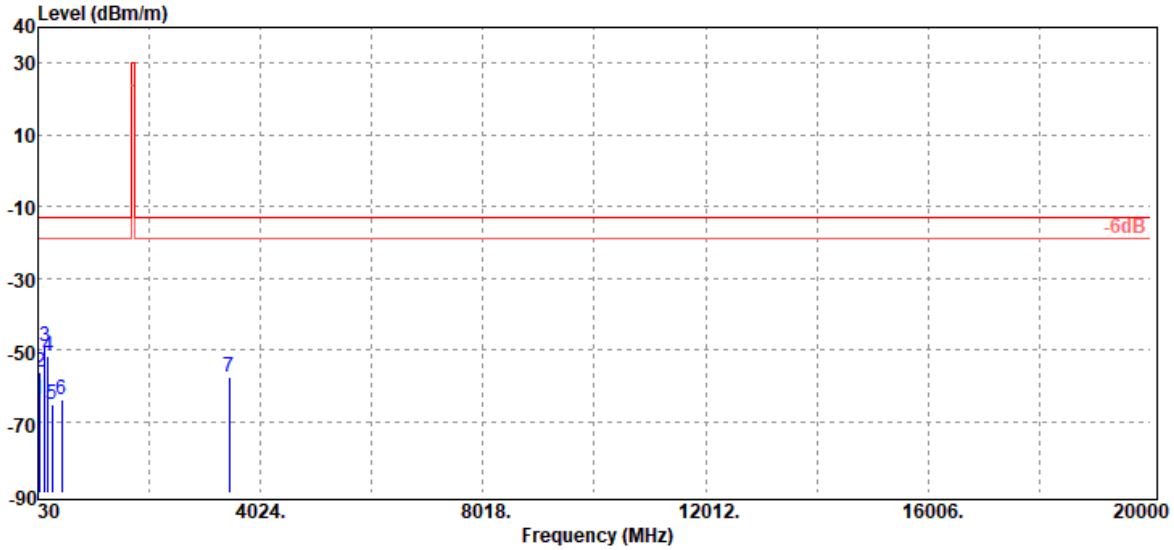
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.40	-46.10	-9.60	-0.70	-13.00	-43.40
153.19	-49.84	-42.10	-6.72	-1.02	-13.00	-36.84
209.45	-51.46	-48.09	-2.18	-1.19	-13.00	-38.46
279.29	-66.30	-62.32	-2.60	-1.38	-13.00	-53.30
309.36	-65.72	-62.28	-1.99	-1.45	-13.00	-52.72
454.86	-62.76	-58.89	-2.10	-1.77	-13.00	-49.76
3440.00	-56.84	-64.05	12.72	-5.51	-13.00	-43.84
5160.00	-49.09	-55.14	12.76	-6.71	-13.00	-36.09

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1720 MHz		



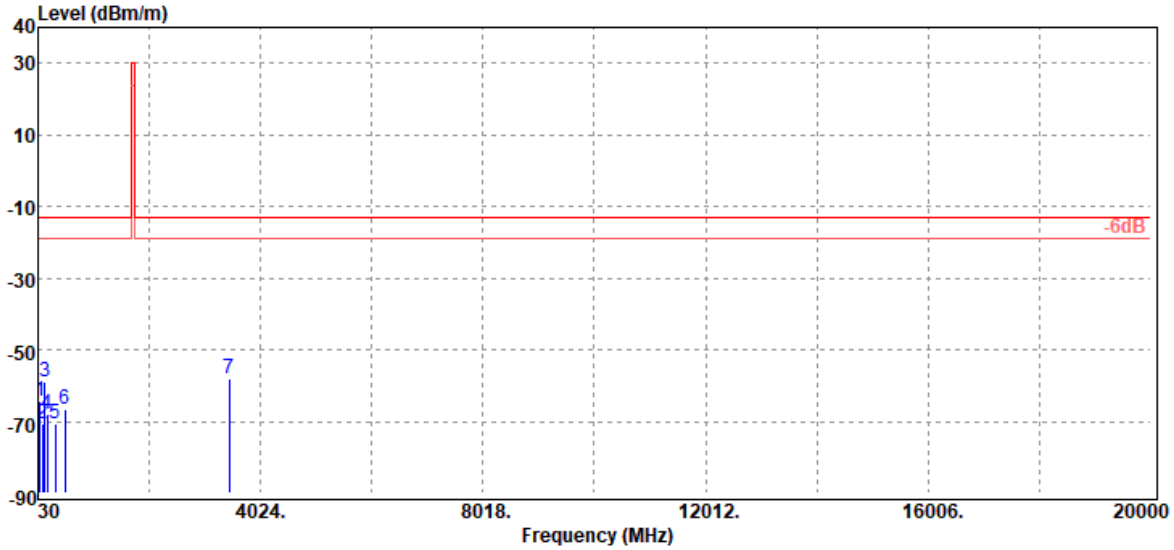
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-54.50	-26.84	-27.19	-0.47	-13.00	-41.50
71.71	-58.36	-48.06	-9.60	-0.70	-13.00	-45.36
90.14	-66.61	-58.84	-6.99	-0.78	-13.00	-53.61
109.54	-69.65	-58.94	-9.85	-0.86	-13.00	-56.65
152.22	-59.60	-51.73	-6.86	-1.01	-13.00	-46.60
209.45	-59.97	-56.60	-2.18	-1.19	-13.00	-46.97
3440.00	-57.50	-64.71	12.72	-5.51	-13.00	-44.50
5160.00	-50.88	-56.93	12.76	-6.71	-13.00	-37.88

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1732.5 MHz		



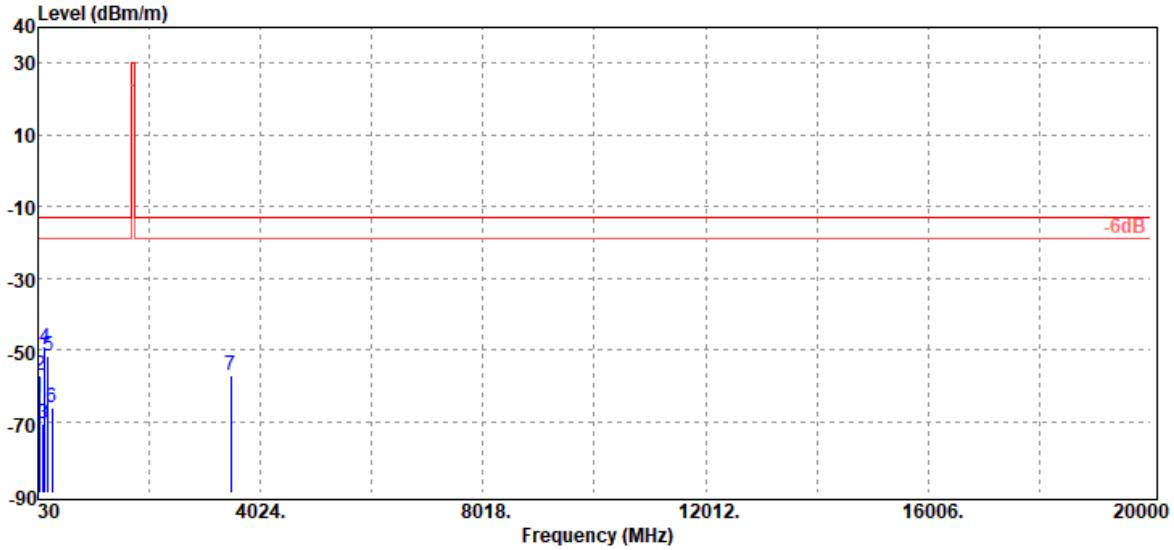
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-63.95	-36.29	-27.19	-0.47	-13.00	-50.95
70.74	-56.47	-46.18	-9.60	-0.69	-13.00	-43.47
153.19	-49.09	-41.35	-6.72	-1.02	-13.00	-36.09
210.42	-51.68	-48.39	-2.10	-1.19	-13.00	-38.68
279.29	-65.12	-61.14	-2.60	-1.38	-13.00	-52.12
456.80	-63.75	-59.88	-2.10	-1.77	-13.00	-50.75
3465.00	-57.53	-64.64	12.64	-5.53	-13.00	-44.53

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1732.5 MHz		



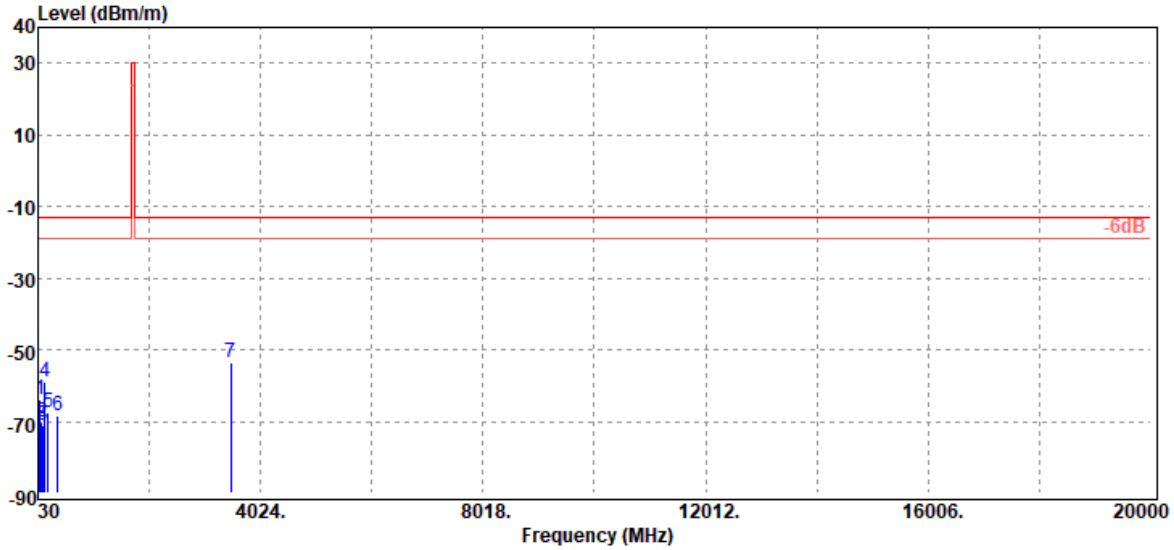
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.54	-54.24	-9.60	-0.70	-13.00	-51.54
109.54	-70.44	-59.73	-9.85	-0.86	-13.00	-57.44
153.19	-58.99	-51.25	-6.72	-1.02	-13.00	-45.99
201.69	-67.93	-62.64	-4.12	-1.17	-13.00	-54.93
333.61	-70.62	-67.48	-1.63	-1.51	-13.00	-57.62
519.85	-66.67	-63.36	-1.40	-1.91	-13.00	-53.67
3465.00	-58.05	-65.16	12.64	-5.53	-13.00	-45.05

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1745 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-63.59	-36.98	-26.13	-0.48	-13.00	-50.59
71.71	-56.96	-46.66	-9.60	-0.70	-13.00	-43.96
122.15	-70.69	-59.12	-10.67	-0.90	-13.00	-57.69
151.25	-49.39	-41.33	-7.05	-1.01	-13.00	-36.39
209.45	-51.79	-48.42	-2.18	-1.19	-13.00	-38.79
279.29	-66.19	-62.21	-2.60	-1.38	-13.00	-53.19
3490.00	-57.20	-64.19	12.54	-5.55	-13.00	-44.20

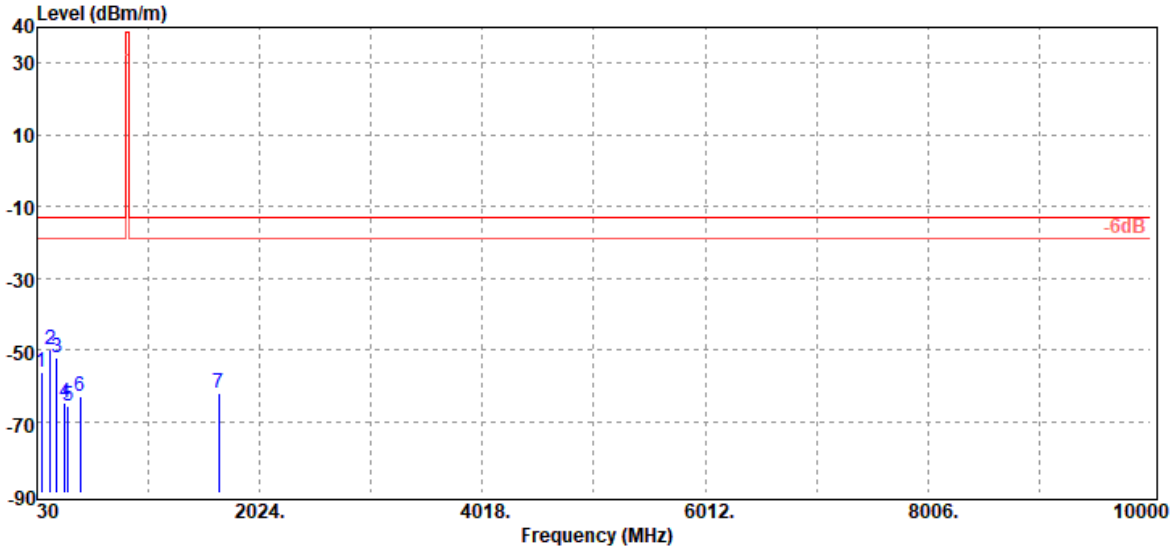
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B4 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1745 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.12	-53.83	-9.60	-0.69	-13.00	-51.12
88.20	-70.15	-62.22	-7.16	-0.77	-13.00	-57.15
109.54	-71.25	-60.54	-9.85	-0.86	-13.00	-58.25
151.25	-59.17	-51.11	-7.05	-1.01	-13.00	-46.17
204.60	-67.34	-63.20	-2.96	-1.18	-13.00	-54.34
388.90	-68.55	-65.52	-1.40	-1.63	-13.00	-55.55
3490.00	-53.49	-60.48	12.54	-5.55	-13.00	-40.49

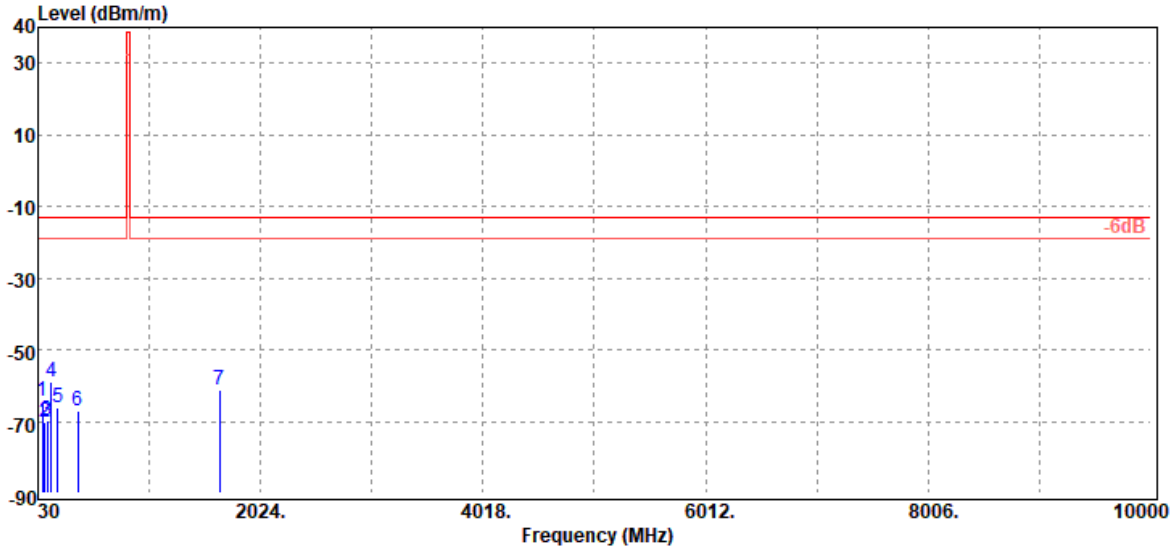
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:829 MHz		



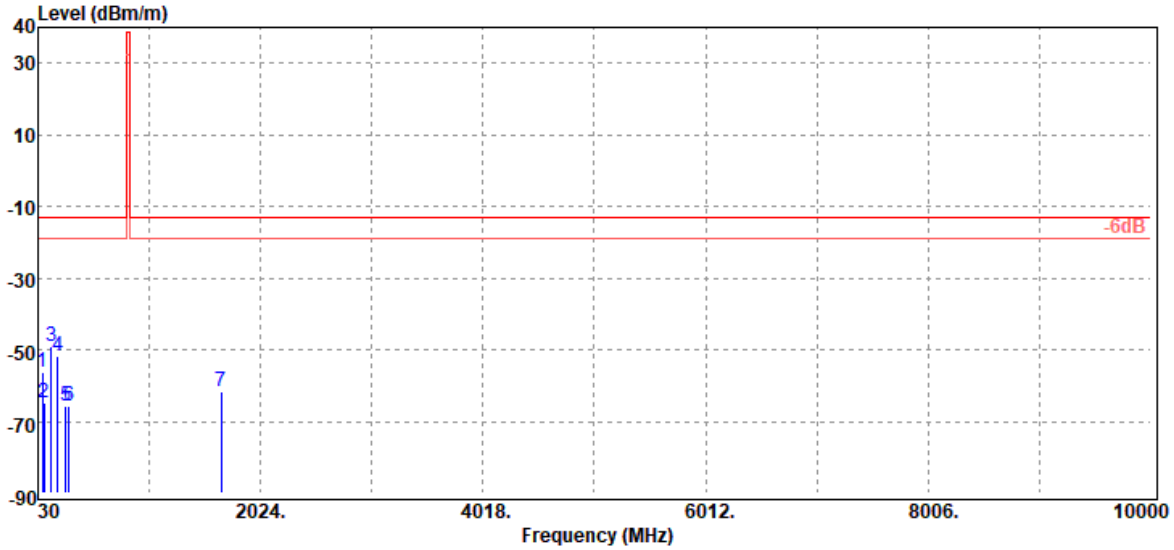
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.47	-46.17	-9.60	-0.70	-13.00	-43.47
150.28	-49.78	-41.67	-7.10	-1.01	-13.00	-36.78
204.60	-52.02	-47.88	-2.96	-1.18	-13.00	-39.02
279.29	-64.73	-60.75	-2.60	-1.38	-13.00	-51.73
309.36	-65.76	-62.32	-1.99	-1.45	-13.00	-52.76
415.09	-63.16	-59.57	-1.90	-1.69	-13.00	-50.16
1658.00	-61.90	-68.09	9.75	-3.56	-13.00	-48.90

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:829 MHz		



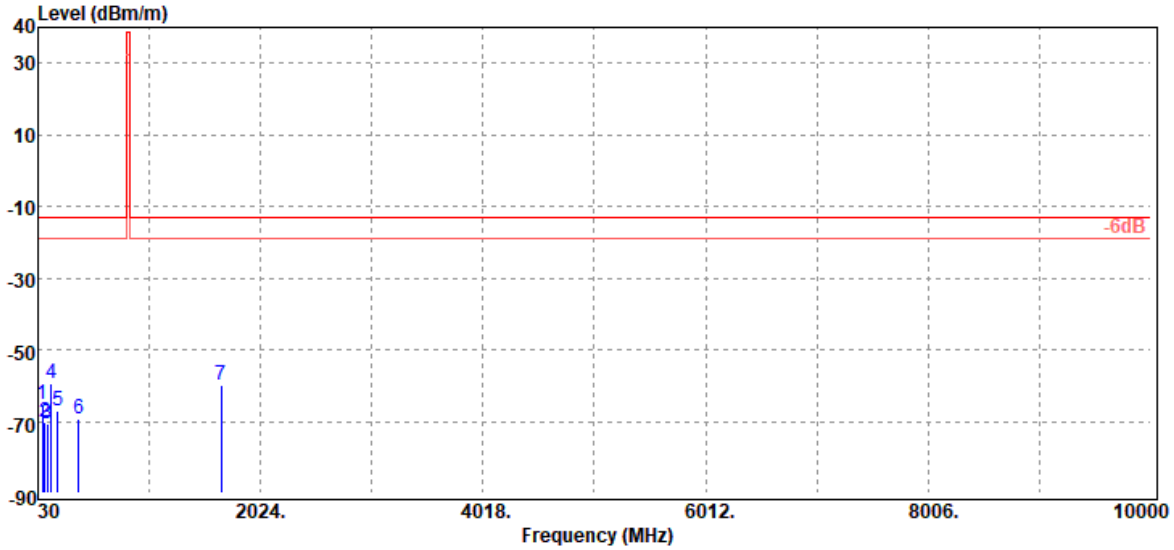
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.31	-54.02	-9.60	-0.69	-13.00	-51.31
88.20	-70.37	-62.44	-7.16	-0.77	-13.00	-57.37
110.51	-69.85	-59.09	-9.90	-0.86	-13.00	-56.85
151.25	-59.05	-50.99	-7.05	-1.01	-13.00	-46.05
204.60	-66.06	-61.92	-2.96	-1.18	-13.00	-53.06
384.05	-67.22	-64.18	-1.42	-1.62	-13.00	-54.22
1658.00	-61.07	-67.26	9.75	-3.56	-13.00	-48.07

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:836.5 MHz		



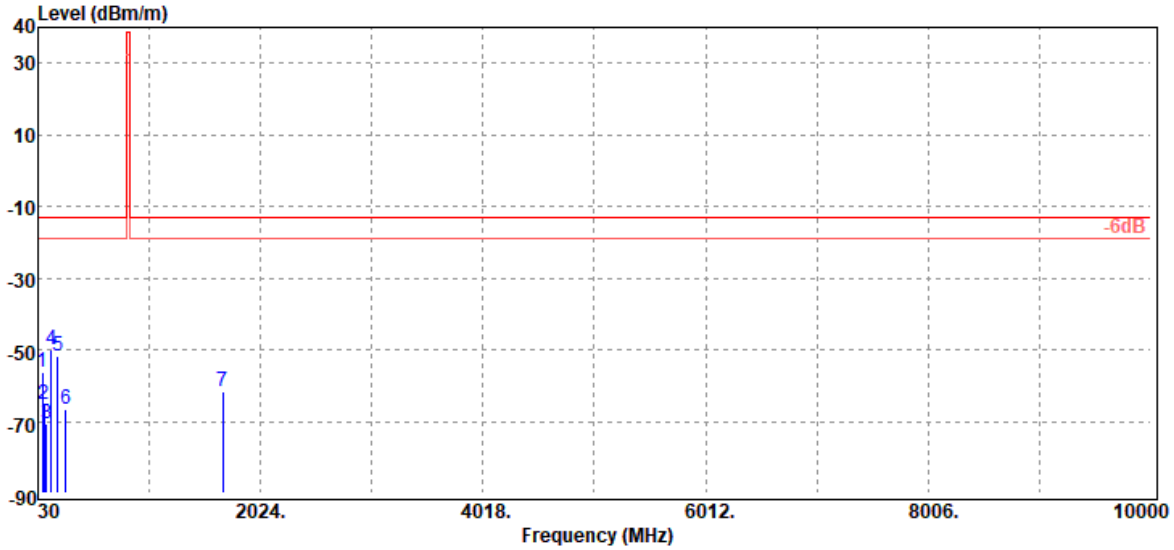
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-56.33	-46.04	-9.60	-0.69	-13.00	-43.33
85.29	-64.99	-56.43	-7.81	-0.75	-13.00	-51.99
151.25	-48.94	-40.88	-7.05	-1.01	-13.00	-35.94
207.51	-51.58	-47.95	-2.45	-1.18	-13.00	-38.58
279.29	-65.72	-61.74	-2.60	-1.38	-13.00	-52.72
309.36	-65.77	-62.33	-1.99	-1.45	-13.00	-52.77
1673.00	-61.87	-68.13	9.84	-3.58	-13.00	-48.87

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:836.5 MHz		



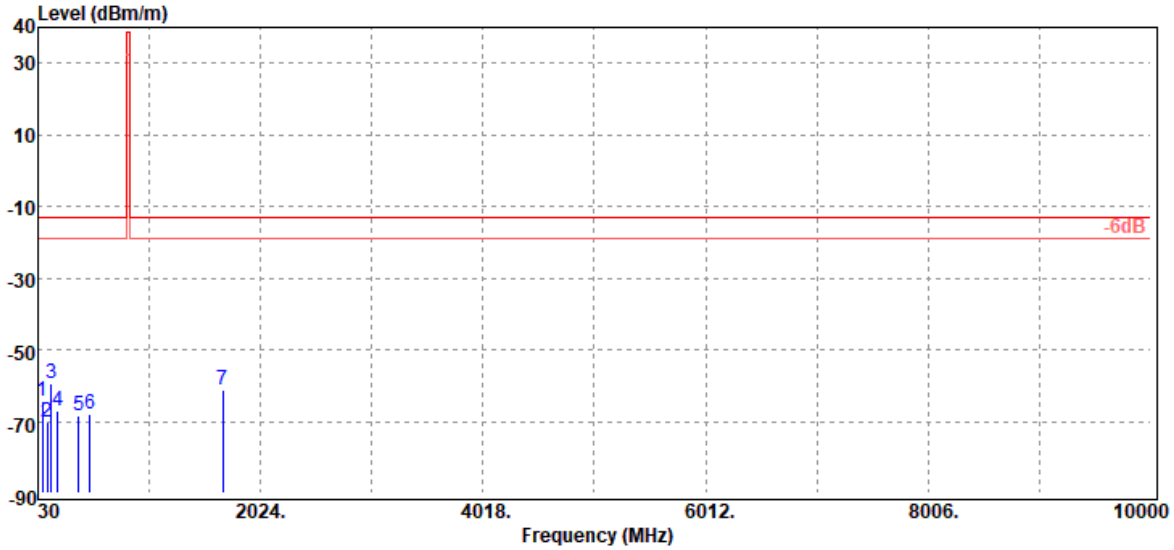
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-65.05	-54.75	-9.60	-0.70	-13.00	-52.05
93.05	-70.41	-62.42	-7.20	-0.79	-13.00	-57.41
109.54	-70.82	-60.11	-9.85	-0.86	-13.00	-57.82
149.31	-59.20	-51.03	-7.17	-1.00	-13.00	-46.20
204.60	-67.02	-62.88	-2.96	-1.18	-13.00	-54.02
390.84	-69.10	-66.03	-1.43	-1.64	-13.00	-56.10
1673.00	-60.08	-66.34	9.84	-3.58	-13.00	-47.08

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:844 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.37	-46.07	-9.60	-0.70	-13.00	-43.37
86.26	-65.46	-57.15	-7.55	-0.76	-13.00	-52.46
105.66	-70.52	-60.31	-9.37	-0.84	-13.00	-57.52
150.28	-49.78	-41.67	-7.10	-1.01	-13.00	-36.78
207.51	-51.97	-48.34	-2.45	-1.18	-13.00	-38.97
280.26	-66.50	-62.53	-2.59	-1.38	-13.00	-53.50
1688.00	-61.55	-67.88	9.93	-3.60	-13.00	-48.55

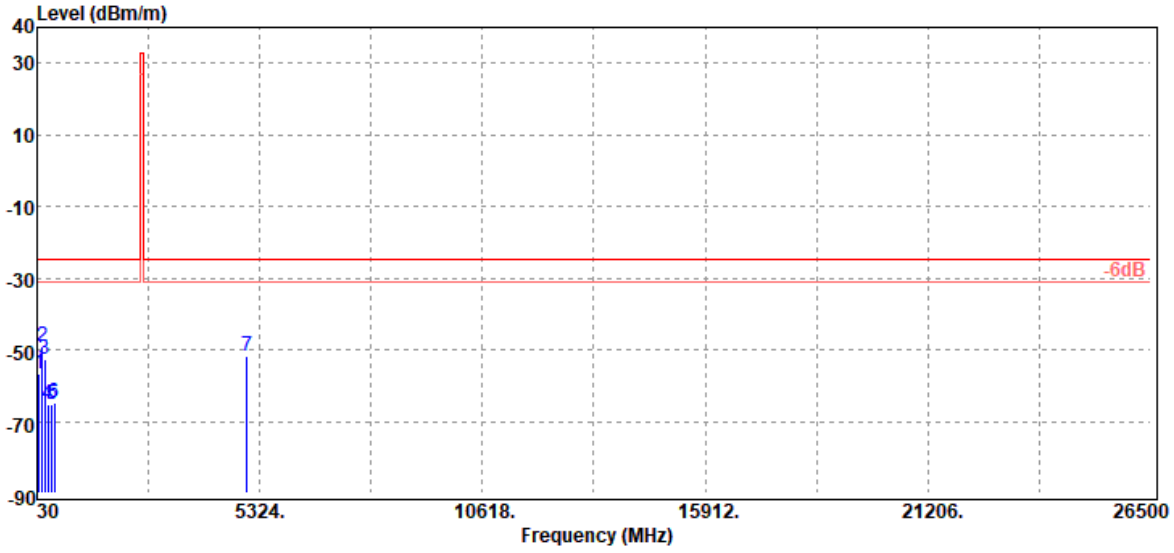
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B5 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:844 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.24	-53.94	-9.60	-0.70	-13.00	-51.24
109.54	-70.10	-59.39	-9.85	-0.86	-13.00	-57.10
149.31	-59.39	-51.22	-7.17	-1.00	-13.00	-46.39
204.60	-67.15	-63.01	-2.96	-1.18	-13.00	-54.15
390.84	-68.57	-65.50	-1.43	-1.64	-13.00	-55.57
495.60	-67.80	-63.94	-2.00	-1.86	-13.00	-54.80
1688.00	-61.40	-67.73	9.93	-3.60	-13.00	-48.40

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

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2510 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.67	-46.37	-9.60	-0.70	-25.00	-31.67
153.19	-48.97	-41.23	-6.72	-1.02	-25.00	-23.97
207.51	-52.64	-49.01	-2.45	-1.18	-25.00	-27.64
279.29	-65.45	-61.47	-2.60	-1.38	-25.00	-40.45
388.90	-65.29	-62.26	-1.40	-1.63	-25.00	-40.29
449.04	-64.74	-60.88	-2.10	-1.76	-25.00	-39.74
5020.00	-51.87	-57.76	12.46	-6.57	-25.00	-26.87

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2510 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-55.30	-27.64	-27.19	-0.47	-25.00	-30.30
70.74	-58.77	-48.48	-9.60	-0.69	-25.00	-33.77
149.31	-59.54	-51.37	-7.17	-1.00	-25.00	-34.54
206.54	-61.92	-58.16	-2.58	-1.18	-25.00	-36.92
388.90	-67.83	-64.80	-1.40	-1.63	-25.00	-42.83
485.90	-67.59	-63.47	-2.28	-1.84	-25.00	-42.59
5020.00	-50.57	-56.46	12.46	-6.57	-25.00	-25.57

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2535 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.65	-46.35	-9.60	-0.70	-25.00	-31.65
154.16	-49.51	-41.71	-6.78	-1.02	-25.00	-24.51
211.39	-52.14	-48.85	-2.10	-1.19	-25.00	-27.14
279.29	-66.61	-62.63	-2.60	-1.38	-25.00	-41.61
311.30	-66.38	-62.92	-2.00	-1.46	-25.00	-41.38
454.86	-62.68	-58.81	-2.10	-1.77	-25.00	-37.68
5070.00	-54.67	-60.53	12.48	-6.62	-25.00	-29.67

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2535 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-63.81	-53.51	-9.60	-0.70	-25.00	-38.81
109.54	-69.30	-58.59	-9.85	-0.86	-25.00	-44.30
153.19	-58.97	-51.23	-6.72	-1.02	-25.00	-33.97
204.60	-67.56	-63.42	-2.96	-1.18	-25.00	-42.56
325.85	-70.17	-66.90	-1.78	-1.49	-25.00	-45.17
548.95	-65.74	-62.59	-1.20	-1.95	-25.00	-40.74
5070.00	-53.96	-59.82	12.48	-6.62	-25.00	-28.96

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2560 MHz		

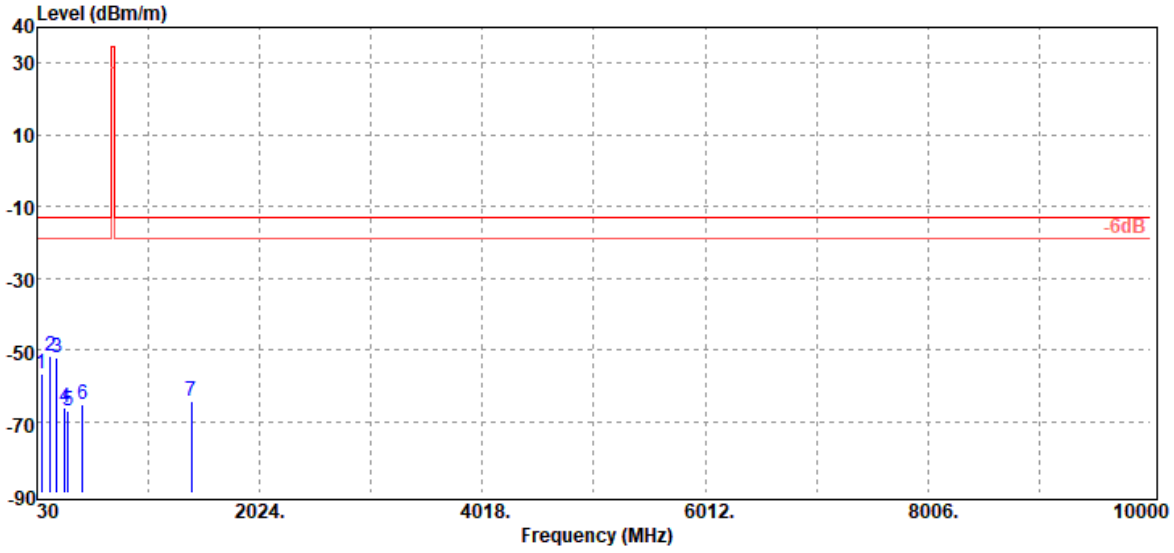
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.92	-46.62	-9.60	-0.70	-25.00	-31.92
154.16	-49.05	-41.25	-6.78	-1.02	-25.00	-24.05
207.51	-51.45	-47.82	-2.45	-1.18	-25.00	-26.45
280.26	-66.24	-62.27	-2.59	-1.38	-25.00	-41.24
385.99	-67.21	-64.18	-1.40	-1.63	-25.00	-42.21
466.50	-64.01	-59.89	-2.33	-1.79	-25.00	-39.01
5120.00	-54.59	-60.56	12.64	-6.67	-25.00	-29.59

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B7 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2560 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.09	-53.79	-9.60	-0.70	-25.00	-39.09
110.51	-69.78	-59.02	-9.90	-0.86	-25.00	-44.78
153.19	-58.35	-50.61	-6.72	-1.02	-25.00	-33.35
197.81	-67.09	-61.35	-4.58	-1.16	-25.00	-42.09
332.64	-69.87	-66.71	-1.65	-1.51	-25.00	-44.87
393.75	-68.49	-65.30	-1.55	-1.64	-25.00	-43.49
5120.00	-54.25	-60.22	12.64	-6.67	-25.00	-29.25

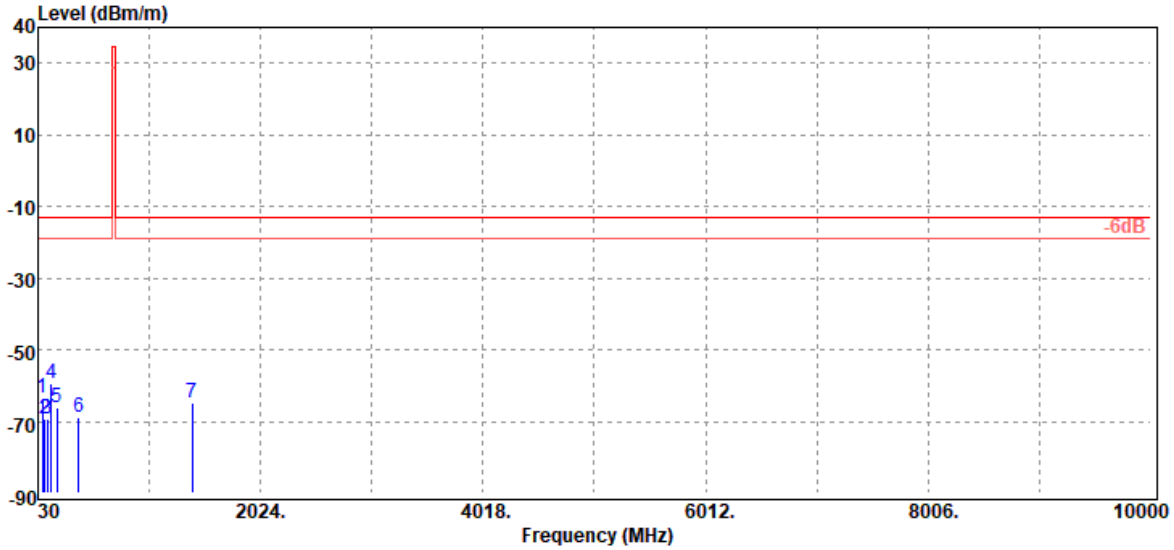
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:704 MHz		



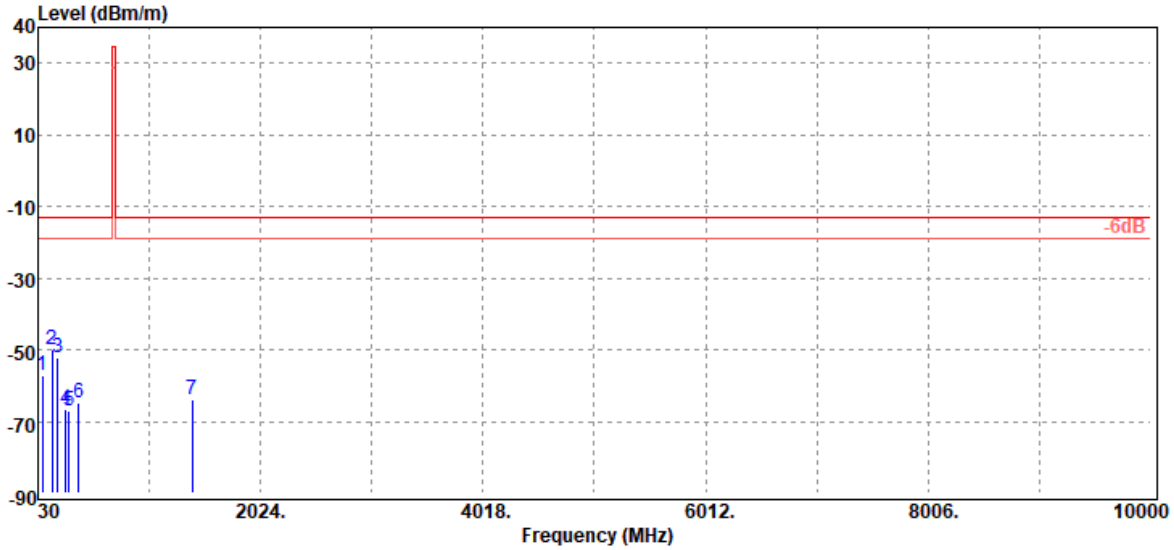
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.93	-46.63	-9.60	-0.70	-13.00	-43.93
149.31	-51.78	-43.61	-7.17	-1.00	-13.00	-38.78
209.45	-52.11	-48.74	-2.18	-1.19	-13.00	-39.11
280.26	-65.98	-62.01	-2.59	-1.38	-13.00	-52.98
309.36	-66.87	-63.43	-1.99	-1.45	-13.00	-53.87
434.49	-65.47	-61.75	-1.99	-1.73	-13.00	-52.47
1408.00	-64.28	-69.08	8.05	-3.25	-13.00	-51.28

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:704 MHz		



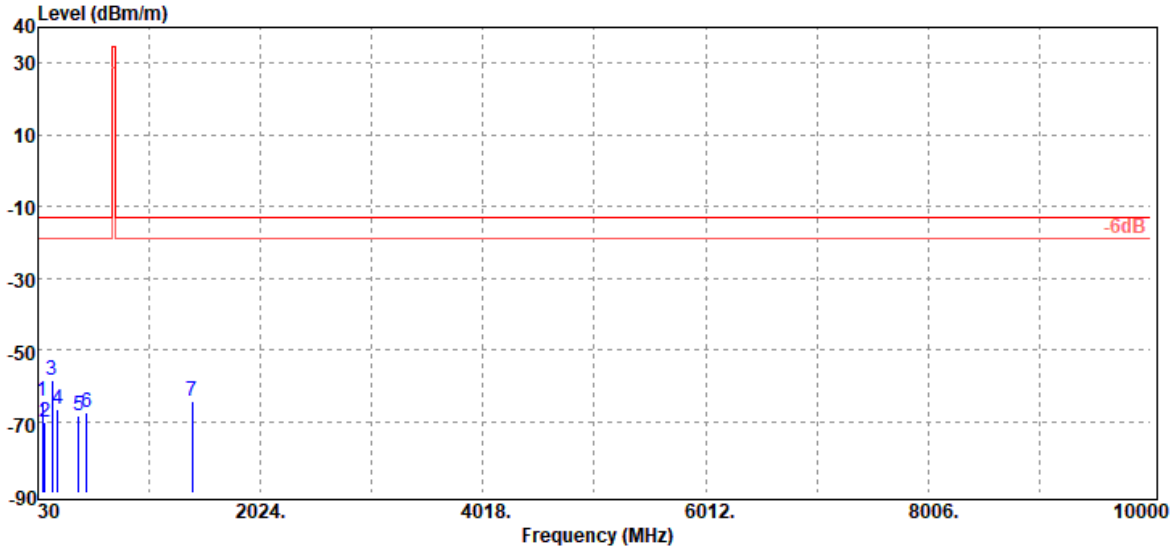
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-63.65	-53.35	-9.60	-0.70	-13.00	-50.65
91.11	-69.43	-61.74	-6.91	-0.78	-13.00	-56.43
109.54	-69.25	-58.54	-9.85	-0.86	-13.00	-56.25
151.25	-59.58	-51.52	-7.05	-1.01	-13.00	-46.58
202.66	-66.37	-61.46	-3.74	-1.17	-13.00	-53.37
391.81	-68.93	-65.82	-1.47	-1.64	-13.00	-55.93
1408.00	-64.87	-69.67	8.05	-3.25	-13.00	-51.87

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:707.5 MHz		



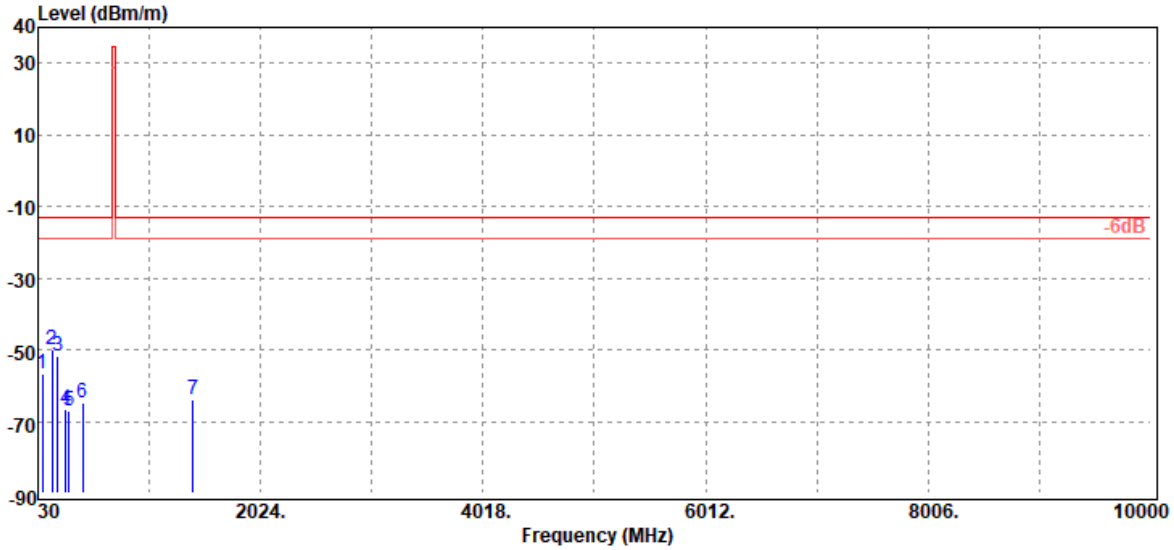
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-57.00	-46.70	-9.60	-0.70	-13.00	-44.00
154.16	-49.76	-41.96	-6.78	-1.02	-13.00	-36.76
209.45	-52.21	-48.84	-2.18	-1.19	-13.00	-39.21
279.29	-66.73	-62.75	-2.60	-1.38	-13.00	-53.73
311.30	-67.04	-63.58	-2.00	-1.46	-13.00	-54.04
393.75	-64.82	-61.63	-1.55	-1.64	-13.00	-51.82
1415.00	-64.07	-68.91	8.09	-3.25	-13.00	-51.07

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:707.5 MHz		



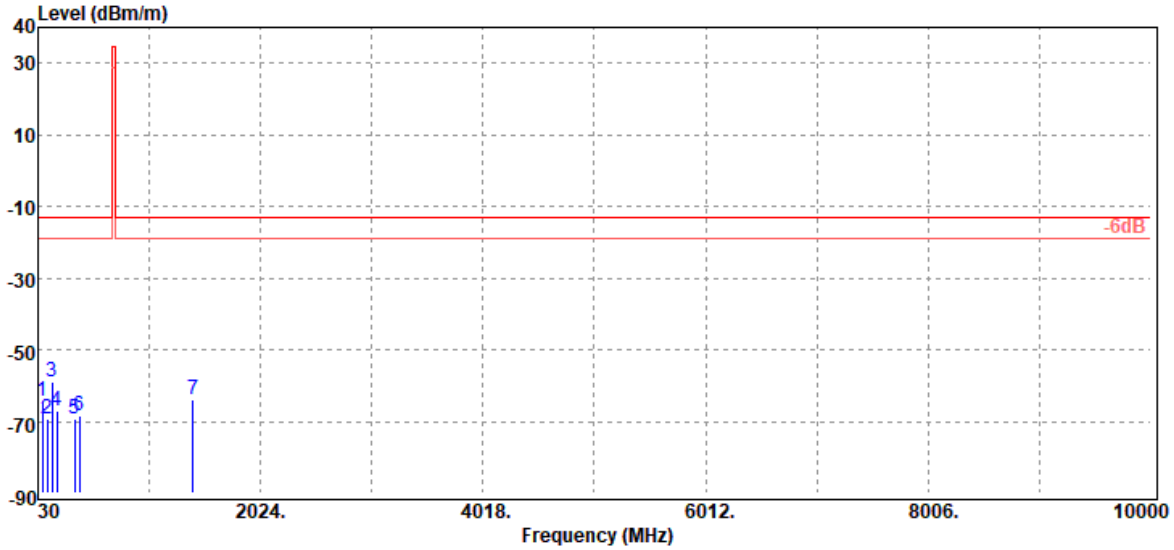
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.19	-53.89	-9.60	-0.70	-13.00	-51.19
91.11	-70.36	-62.67	-6.91	-0.78	-13.00	-57.36
153.19	-58.47	-50.73	-6.72	-1.02	-13.00	-45.47
204.60	-66.39	-62.25	-2.96	-1.18	-13.00	-53.39
391.81	-68.63	-65.52	-1.47	-1.64	-13.00	-55.63
468.44	-67.70	-63.53	-2.37	-1.80	-13.00	-54.70
1415.00	-64.43	-69.27	8.09	-3.25	-13.00	-51.43

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:711 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.69	-46.39	-9.60	-0.70	-13.00	-43.69
153.19	-50.14	-42.40	-6.72	-1.02	-13.00	-37.14
209.45	-51.61	-48.24	-2.18	-1.19	-13.00	-38.61
277.35	-66.53	-62.56	-2.60	-1.37	-13.00	-53.53
308.39	-66.90	-63.48	-1.97	-1.45	-13.00	-53.90
432.55	-64.85	-61.18	-1.95	-1.72	-13.00	-51.85
1422.00	-63.96	-68.83	8.13	-3.26	-13.00	-50.96

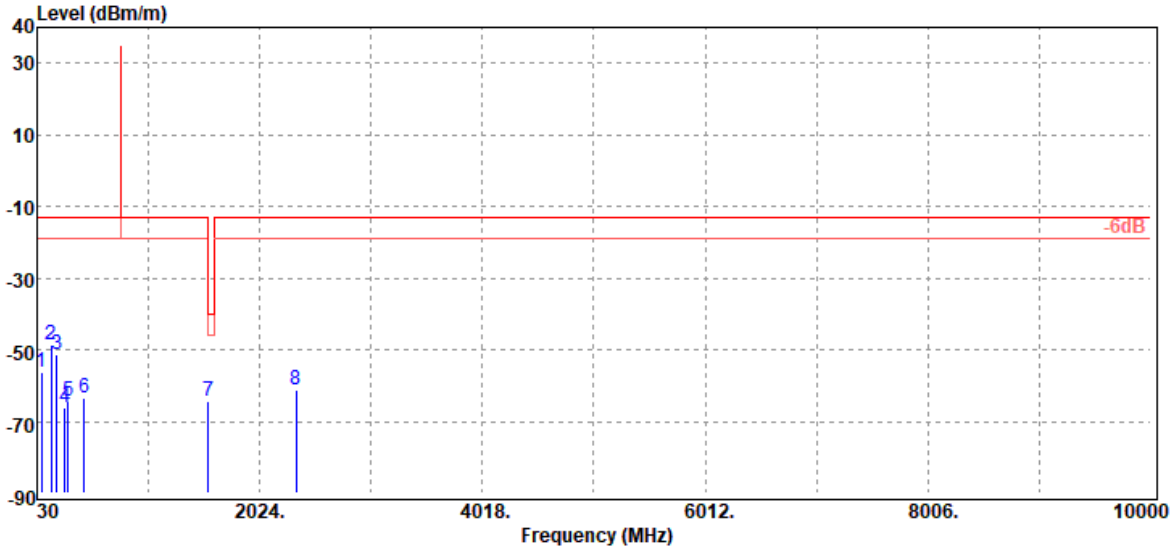
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B12 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:711 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.19	-53.89	-9.60	-0.70	-13.00	-51.19
109.54	-69.27	-58.56	-9.85	-0.86	-13.00	-56.27
154.16	-59.09	-51.29	-6.78	-1.02	-13.00	-46.09
202.66	-66.88	-61.97	-3.74	-1.17	-13.00	-53.88
359.80	-69.29	-65.94	-1.78	-1.57	-13.00	-56.29
398.60	-68.37	-65.05	-1.67	-1.65	-13.00	-55.37
1422.00	-64.01	-68.88	8.13	-3.26	-13.00	-51.01

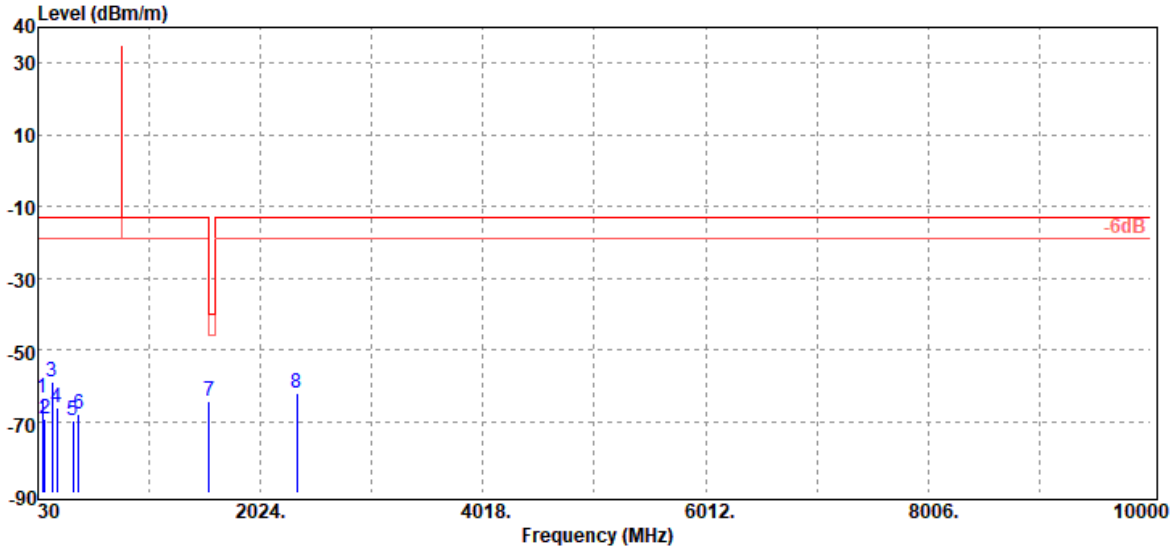
Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.32	-46.02	-9.60	-0.70	-13.00	-43.32
153.19	-48.72	-40.98	-6.72	-1.02	-13.00	-35.72
207.51	-51.21	-47.58	-2.45	-1.18	-13.00	-38.21
279.29	-66.22	-62.24	-2.60	-1.38	-13.00	-53.22
309.36	-64.55	-61.11	-1.99	-1.45	-13.00	-51.55
454.86	-63.57	-59.70	-2.10	-1.77	-13.00	-50.57
1564.00	-64.27	-70.21	9.38	-3.44	-40.00	-24.27
2346.00	-61.41	-66.89	9.87	-4.39	-13.00	-48.41

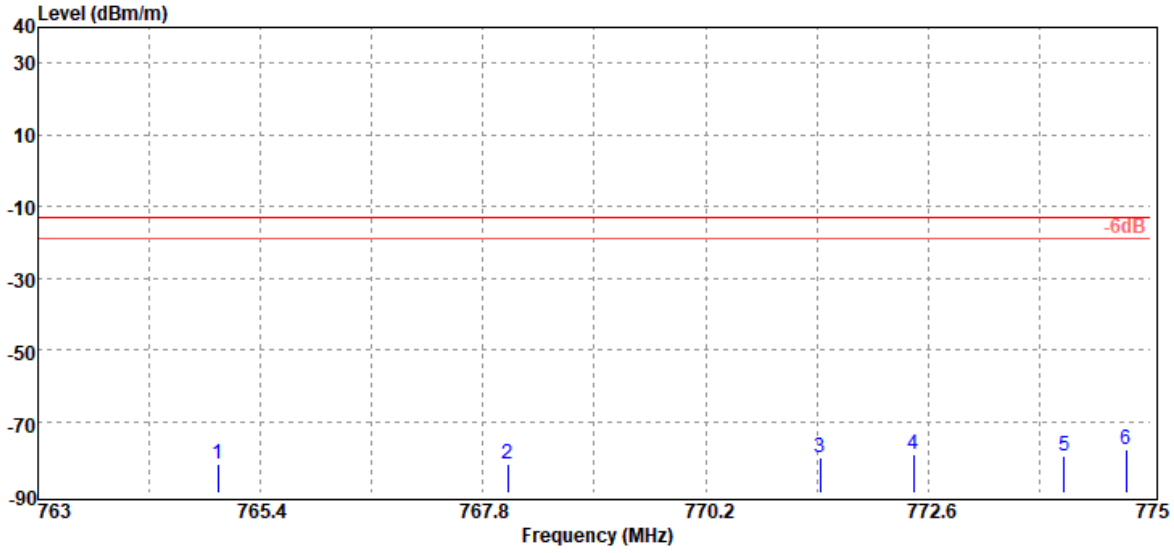
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-63.63	-53.34	-9.60	-0.69	-13.00	-50.63
91.11	-69.53	-61.84	-6.91	-0.78	-13.00	-56.53
153.19	-59.04	-51.30	-6.72	-1.02	-13.00	-46.04
196.84	-66.35	-60.72	-4.48	-1.15	-13.00	-53.35
342.34	-69.98	-66.95	-1.50	-1.53	-13.00	-56.98
390.84	-68.08	-65.01	-1.43	-1.64	-13.00	-55.08
1564.00	-64.36	-70.30	9.38	-3.44	-40.00	-24.36
2346.00	-62.27	-67.75	9.87	-4.39	-13.00	-49.27

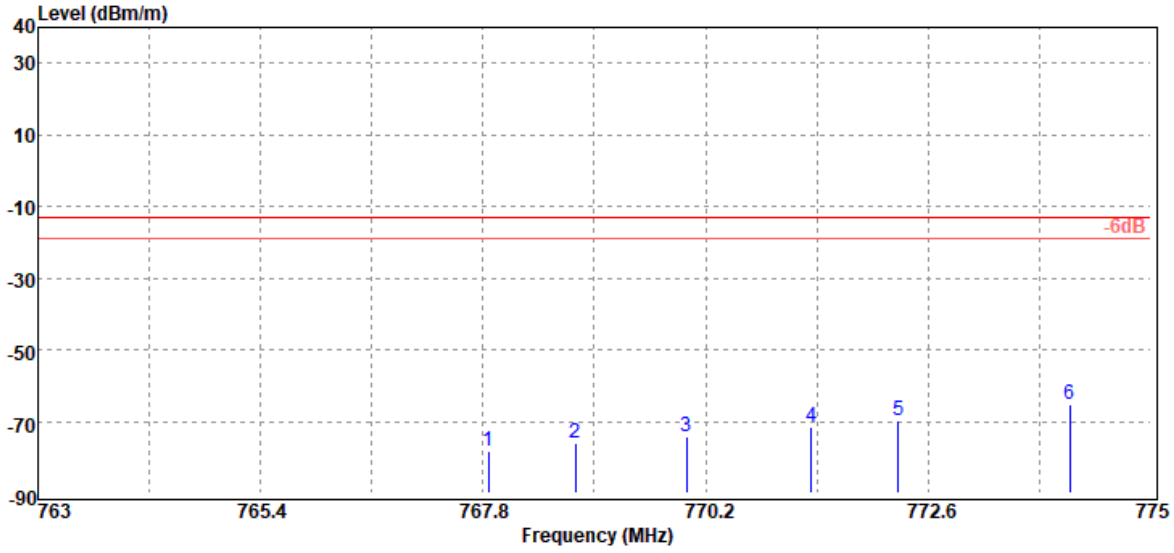
Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.94	-81.97	-78.24	-1.40	-2.33	-13.00	-68.97
768.06	-81.70	-77.97	-1.40	-2.33	-13.00	-68.70
771.44	-80.12	-76.39	-1.40	-2.33	-13.00	-67.12
772.44	-78.99	-75.25	-1.40	-2.34	-13.00	-65.99
774.06	-79.61	-75.87	-1.40	-2.34	-13.00	-66.61
774.74	-77.78	-74.04	-1.40	-2.34	-13.00	-64.78

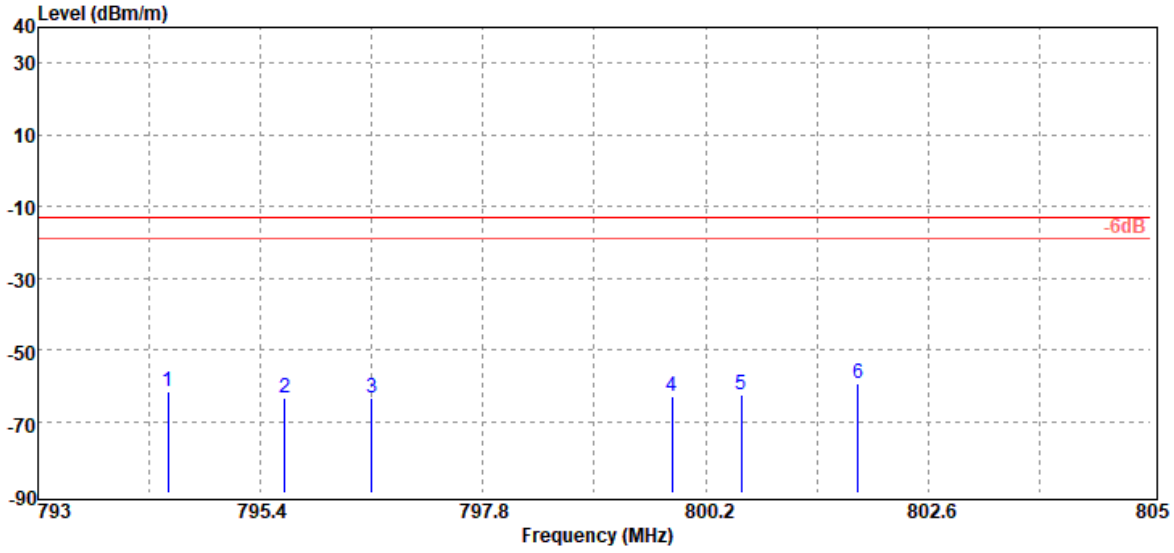
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
767.86	-78.22	-74.49	-1.40	-2.33	-13.00	-65.22
768.80	-76.22	-72.49	-1.40	-2.33	-13.00	-63.22
770.00	-74.19	-70.46	-1.40	-2.33	-13.00	-61.19
771.34	-71.47	-67.74	-1.40	-2.33	-13.00	-58.47
772.28	-69.73	-65.99	-1.40	-2.34	-13.00	-56.73
774.12	-65.43	-61.69	-1.40	-2.34	-13.00	-52.43

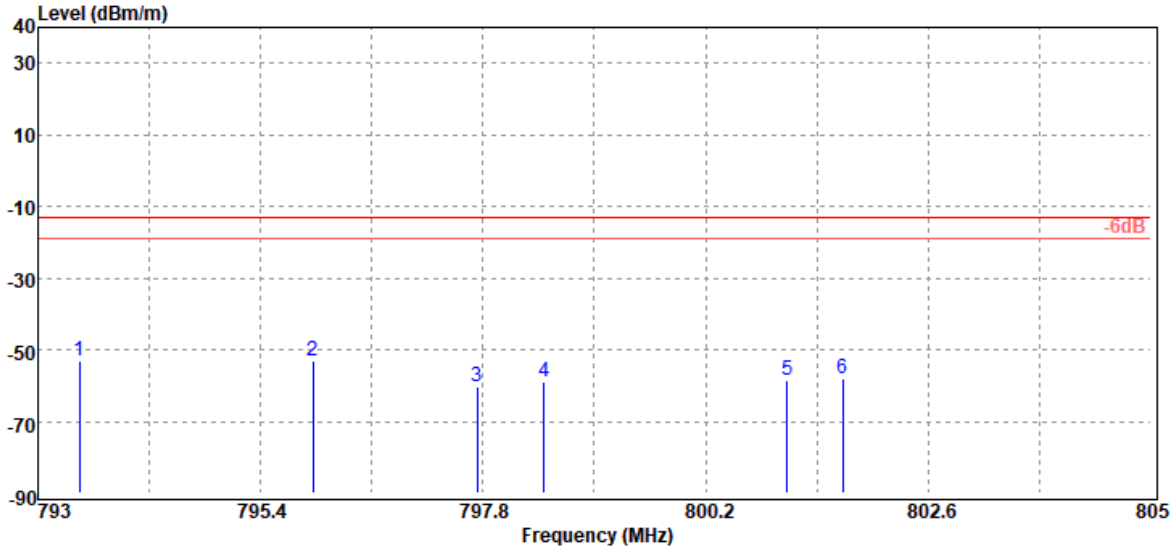
Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
794.40	-61.49	-57.92	-1.21	-2.36	-13.00	-48.49
795.66	-63.27	-59.70	-1.21	-2.36	-13.00	-50.27
796.60	-63.25	-59.66	-1.23	-2.36	-13.00	-50.25
799.84	-63.09	-59.42	-1.30	-2.37	-13.00	-50.09
800.58	-62.75	-59.07	-1.31	-2.37	-13.00	-49.75
801.84	-59.44	-55.73	-1.34	-2.37	-13.00	-46.44

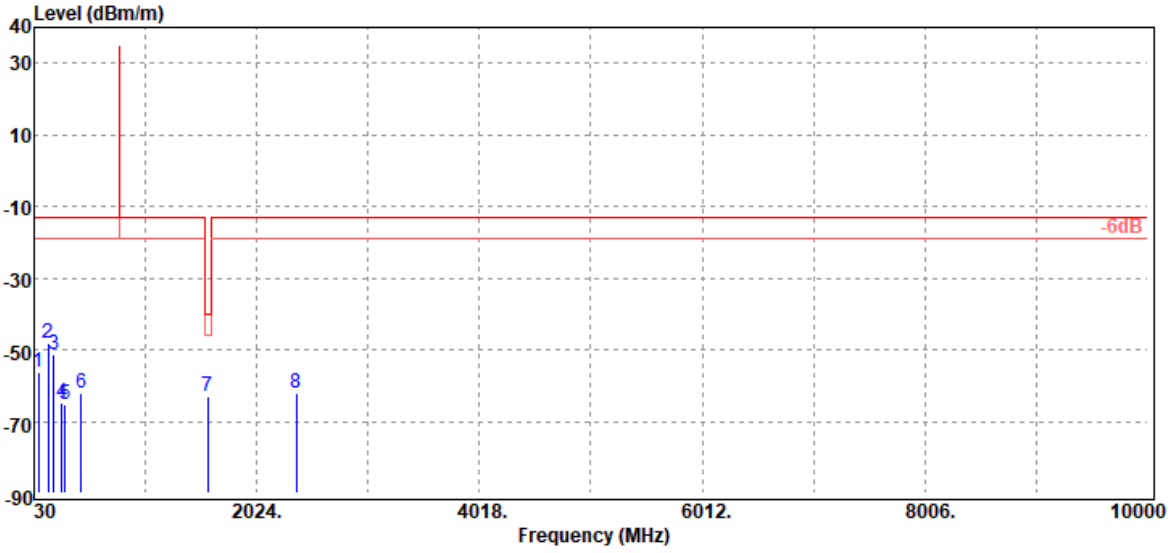
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B13 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:782 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.44	-53.14	-49.55	-1.23	-2.36	-13.00	-40.14
795.96	-53.20	-49.62	-1.22	-2.36	-13.00	-40.20
797.74	-60.24	-56.62	-1.25	-2.37	-13.00	-47.24
798.46	-59.18	-55.54	-1.27	-2.37	-13.00	-46.18
801.08	-58.51	-54.82	-1.32	-2.37	-13.00	-45.51
801.68	-58.02	-54.32	-1.33	-2.37	-13.00	-45.02

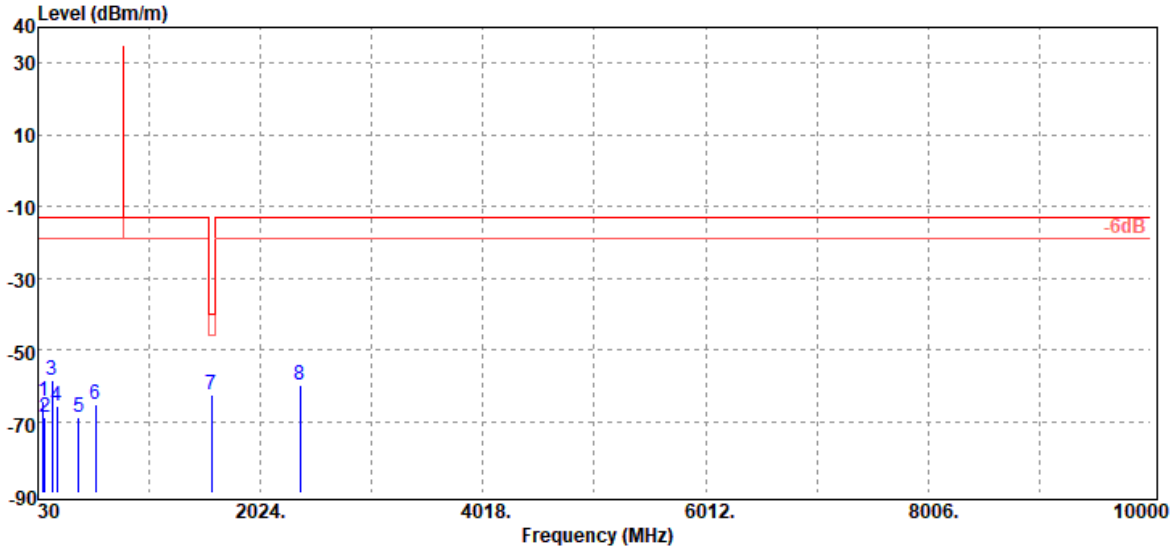
Radiated Spurious Emission Measurement Result: LTE-Band 14 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B14 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:793 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.26	-45.96	-9.60	-0.70	-13.00	-43.26
153.19	-47.96	-40.22	-6.72	-1.02	-13.00	-34.96
207.51	-51.34	-47.71	-2.45	-1.18	-13.00	-38.34
279.29	-65.03	-61.05	-2.60	-1.38	-13.00	-52.03
309.36	-65.11	-61.67	-1.99	-1.45	-13.00	-52.11
454.86	-62.32	-58.45	-2.10	-1.77	-13.00	-49.32
1586.00	-63.12	-69.17	9.52	-3.47	-40.00	-23.12
2379.00	-61.97	-67.67	10.13	-4.43	-13.00	-48.97

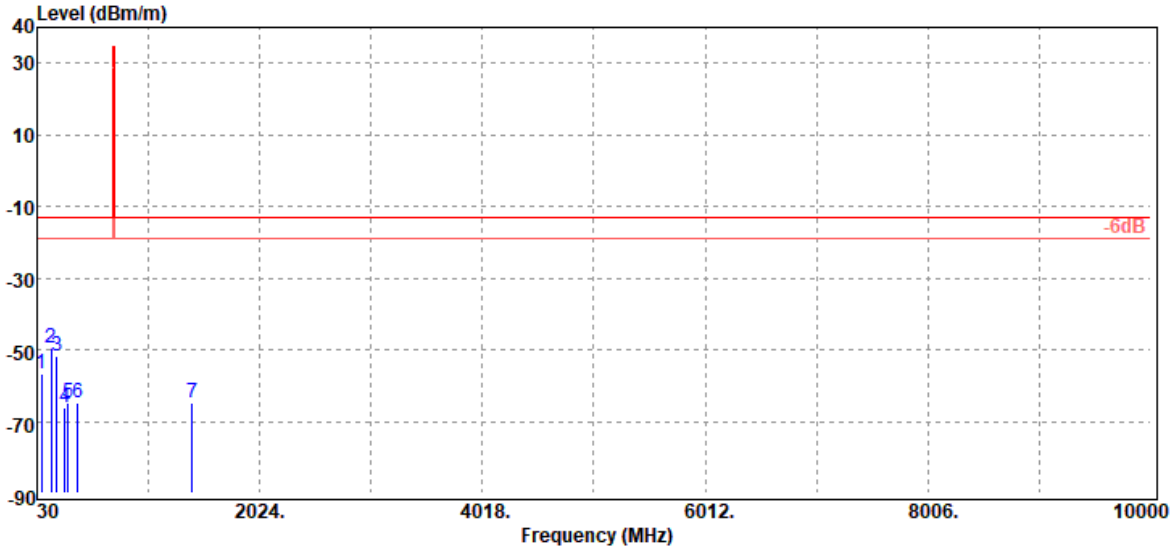
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B14 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:793 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
73.65	-64.53	-54.73	-9.10	-0.70	-13.00	-51.53
91.11	-69.07	-61.38	-6.91	-0.78	-13.00	-56.07
153.19	-58.72	-50.98	-6.72	-1.02	-13.00	-45.72
202.66	-65.49	-60.58	-3.74	-1.17	-13.00	-52.49
391.81	-68.70	-65.59	-1.47	-1.64	-13.00	-55.70
547.01	-65.07	-61.93	-1.20	-1.94	-13.00	-52.07
1586.00	-62.61	-68.66	9.52	-3.47	-40.00	-22.61
2379.00	-59.99	-65.69	10.13	-4.43	-13.00	-46.99

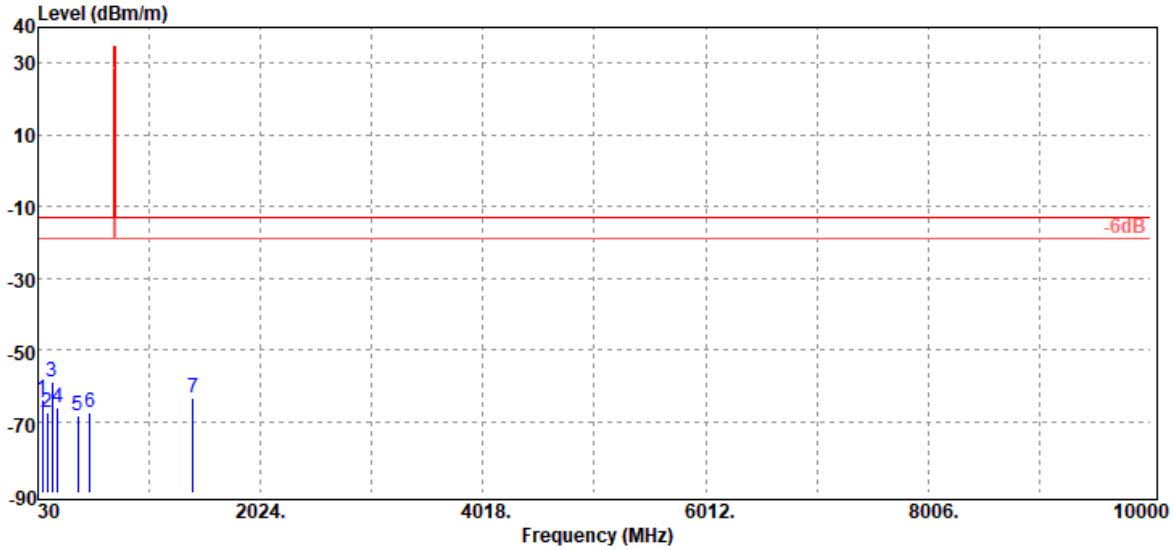
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:709 MHz		



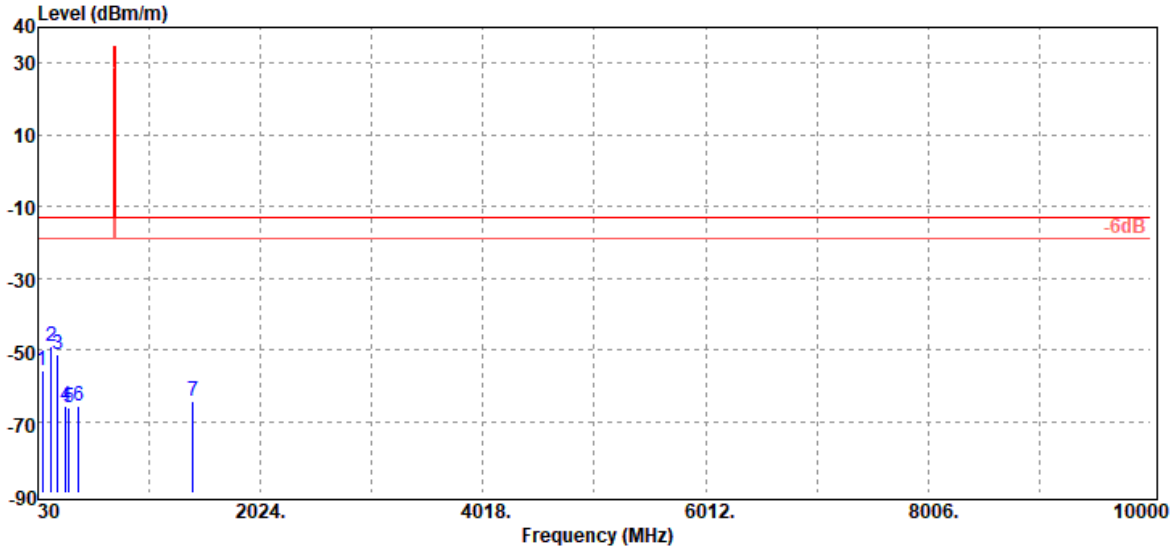
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-56.90	-46.61	-9.60	-0.69	-13.00	-43.90
153.19	-49.30	-41.56	-6.72	-1.02	-13.00	-36.30
206.54	-51.55	-47.79	-2.58	-1.18	-13.00	-38.55
279.29	-66.28	-62.30	-2.60	-1.38	-13.00	-53.28
309.36	-64.68	-61.24	-1.99	-1.45	-13.00	-51.68
393.75	-64.72	-61.53	-1.55	-1.64	-13.00	-51.72
1418.00	-64.95	-69.80	8.11	-3.26	-13.00	-51.95

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:709 MHz		



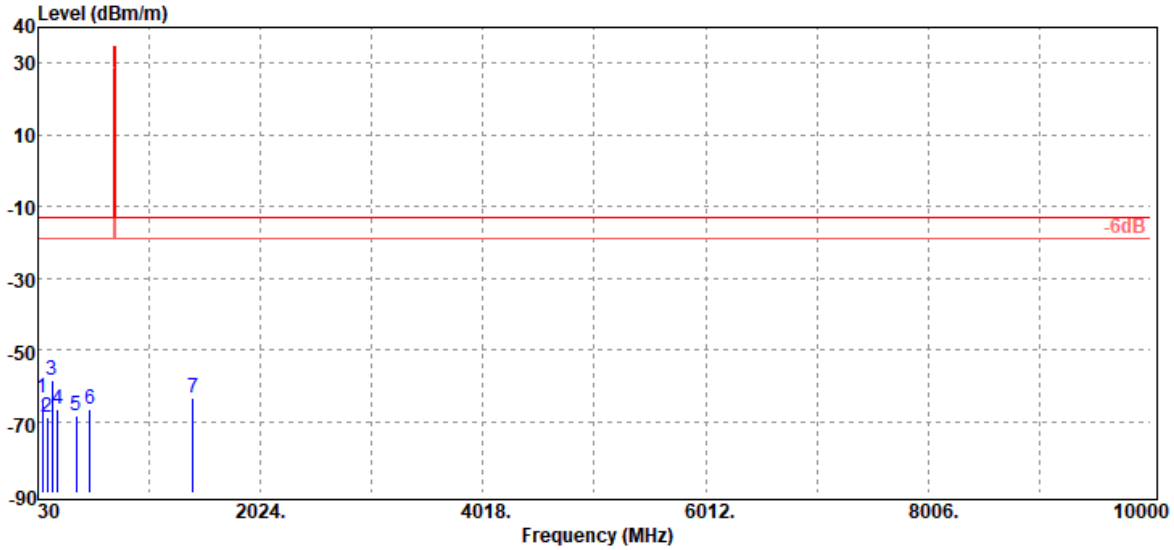
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-63.82	-53.53	-9.60	-0.69	-13.00	-50.82
109.54	-67.50	-56.79	-9.85	-0.86	-13.00	-54.50
154.16	-58.74	-50.94	-6.78	-1.02	-13.00	-45.74
204.60	-66.24	-62.10	-2.96	-1.18	-13.00	-53.24
388.90	-68.31	-65.28	-1.40	-1.63	-13.00	-55.31
498.51	-67.36	-63.49	-2.00	-1.87	-13.00	-54.36
1418.00	-63.52	-68.37	8.11	-3.26	-13.00	-50.52

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:710 MHz		



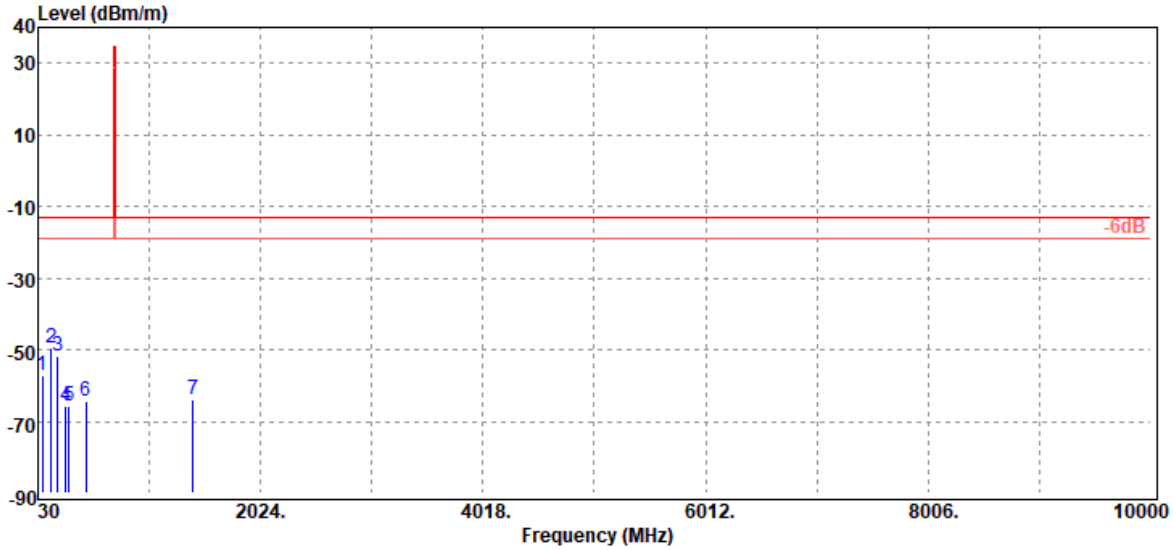
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-55.94	-45.64	-9.60	-0.70	-13.00	-42.94
151.25	-48.93	-40.87	-7.05	-1.01	-13.00	-35.93
206.54	-51.12	-47.36	-2.58	-1.18	-13.00	-38.12
279.29	-65.52	-61.54	-2.60	-1.38	-13.00	-52.52
309.36	-66.13	-62.69	-1.99	-1.45	-13.00	-53.13
393.75	-65.55	-62.36	-1.55	-1.64	-13.00	-52.55
1420.00	-64.38	-69.24	8.12	-3.26	-13.00	-51.38

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:710 MHz		



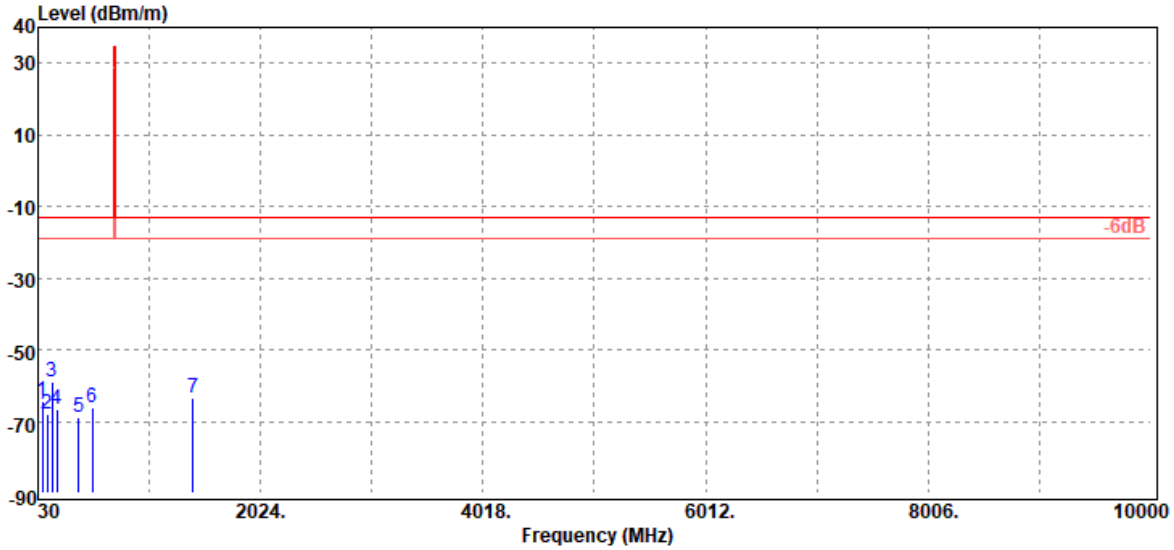
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-63.39	-53.09	-9.60	-0.70	-13.00	-50.39
110.51	-68.93	-58.17	-9.90	-0.86	-13.00	-55.93
154.16	-58.64	-50.84	-6.78	-1.02	-13.00	-45.64
204.60	-66.46	-62.32	-2.96	-1.18	-13.00	-53.46
374.35	-68.48	-65.17	-1.71	-1.60	-13.00	-55.48
497.54	-66.42	-62.56	-2.00	-1.86	-13.00	-53.42
1420.00	-63.60	-68.46	8.12	-3.26	-13.00	-50.60

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:711 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.99	-46.69	-9.60	-0.70	-13.00	-43.99
150.28	-49.69	-41.58	-7.10	-1.01	-13.00	-36.69
207.51	-51.91	-48.28	-2.45	-1.18	-13.00	-38.91
279.29	-65.50	-61.52	-2.60	-1.38	-13.00	-52.50
309.36	-65.56	-62.12	-1.99	-1.45	-13.00	-52.56
459.71	-64.30	-60.42	-2.10	-1.78	-13.00	-51.30
1422.00	-63.92	-68.79	8.13	-3.26	-13.00	-50.92

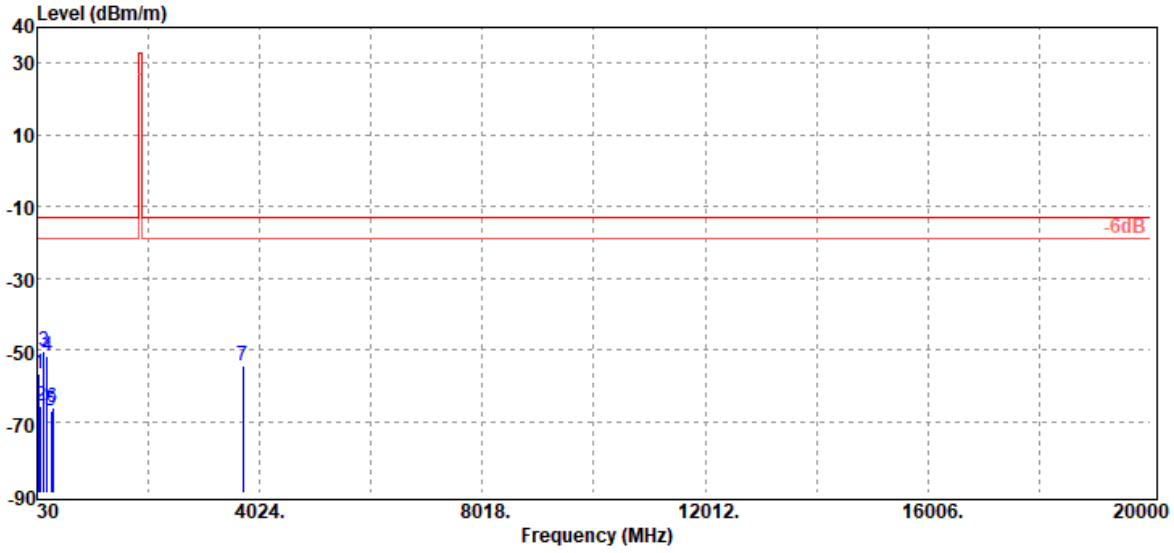
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B17 10M QPSK 1,49	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:711 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.58	-54.29	-9.60	-0.69	-13.00	-51.58
109.54	-67.96	-57.25	-9.85	-0.86	-13.00	-54.96
153.19	-59.11	-51.37	-6.72	-1.02	-13.00	-46.11
202.66	-66.58	-61.67	-3.74	-1.17	-13.00	-53.58
390.84	-68.89	-65.82	-1.43	-1.64	-13.00	-55.89
519.85	-66.10	-62.79	-1.40	-1.91	-13.00	-53.10
1422.00	-63.32	-68.19	8.13	-3.26	-13.00	-50.32

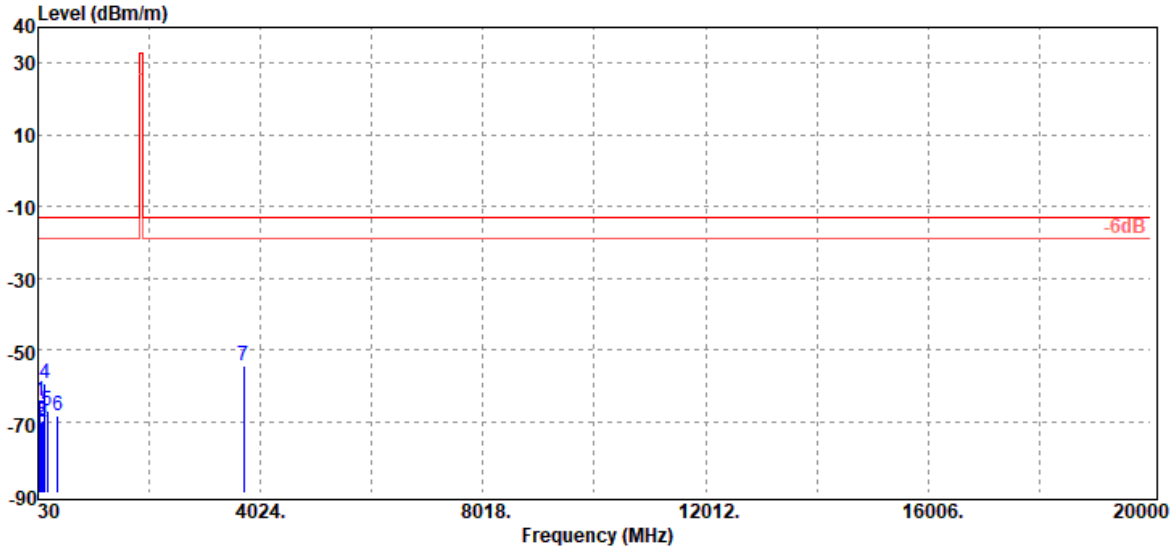
Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1860 MHz		



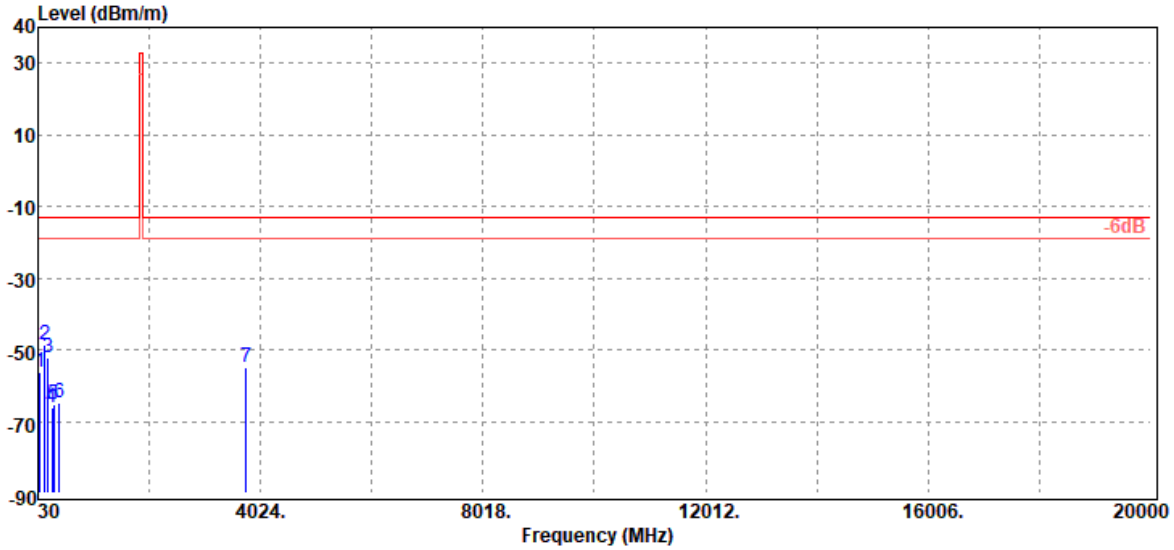
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-56.71	-46.42	-9.60	-0.69	-13.00	-43.71
88.20	-65.66	-57.73	-7.16	-0.77	-13.00	-52.66
149.31	-50.31	-42.14	-7.17	-1.00	-13.00	-37.31
209.45	-51.93	-48.56	-2.18	-1.19	-13.00	-38.93
279.29	-67.18	-63.20	-2.60	-1.38	-13.00	-54.18
309.36	-66.10	-62.66	-1.99	-1.45	-13.00	-53.10
3720.00	-54.65	-61.38	12.46	-5.73	-13.00	-41.65

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1860 MHz		



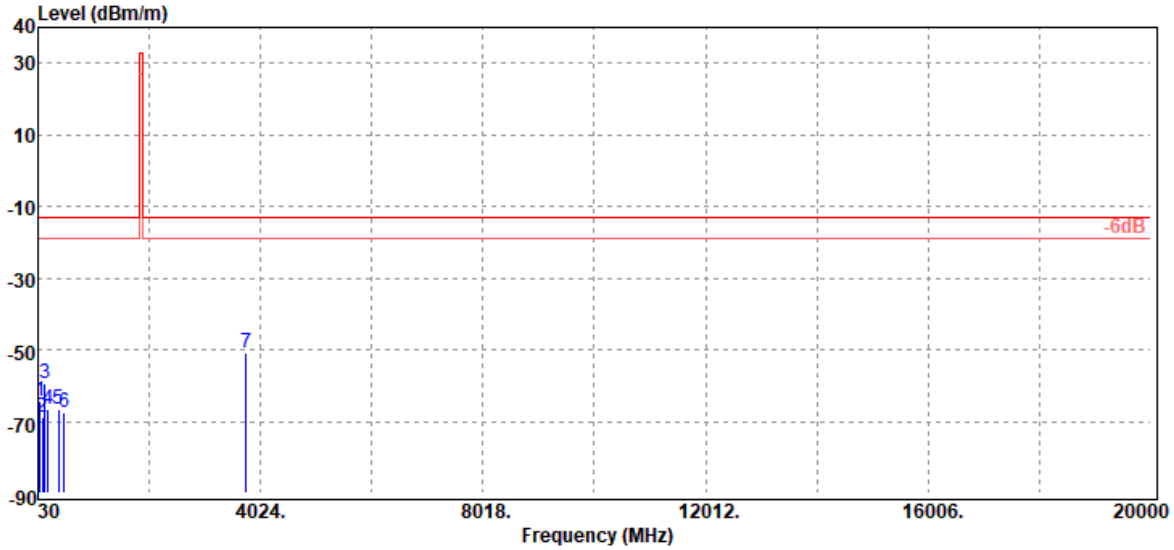
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.35	-54.05	-9.60	-0.70	-13.00	-51.35
91.11	-70.26	-62.57	-6.91	-0.78	-13.00	-57.26
109.54	-69.59	-58.88	-9.85	-0.86	-13.00	-56.59
151.25	-59.20	-51.14	-7.05	-1.01	-13.00	-46.20
202.66	-67.19	-62.28	-3.74	-1.17	-13.00	-54.19
390.84	-68.38	-65.31	-1.43	-1.64	-13.00	-55.38
3720.00	-54.58	-61.31	12.46	-5.73	-13.00	-41.58

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1882.5 MHz		



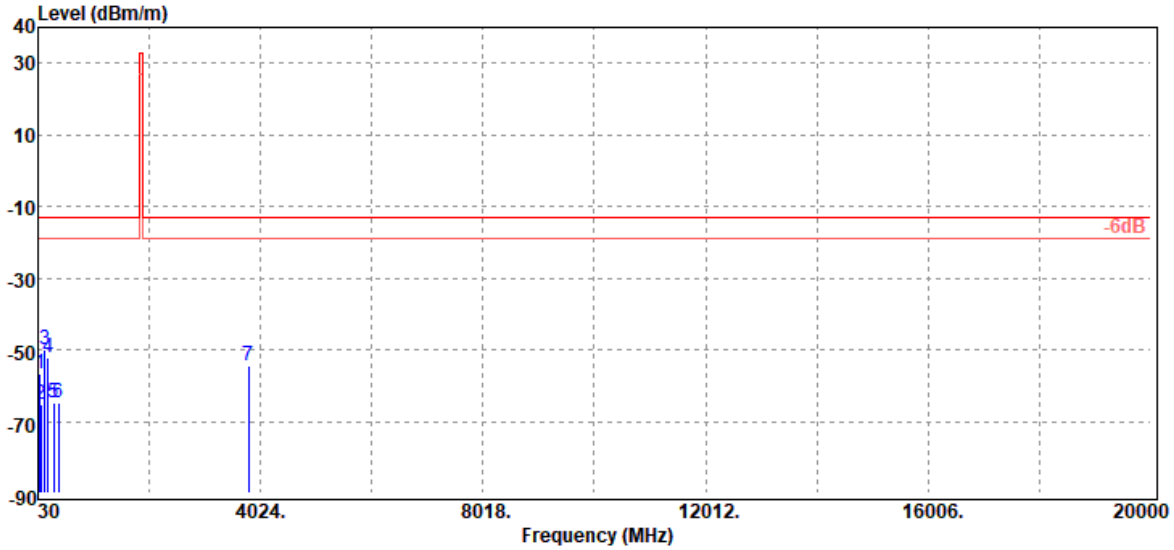
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.04	-45.74	-9.60	-0.70	-13.00	-43.04
153.19	-48.81	-41.07	-6.72	-1.02	-13.00	-35.81
209.45	-52.19	-48.82	-2.18	-1.19	-13.00	-39.19
279.29	-66.03	-62.05	-2.60	-1.38	-13.00	-53.03
309.36	-65.30	-61.86	-1.99	-1.45	-13.00	-52.30
415.09	-64.69	-61.10	-1.90	-1.69	-13.00	-51.69
3765.00	-55.12	-61.79	12.43	-5.76	-13.00	-42.12

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1882.5 MHz		



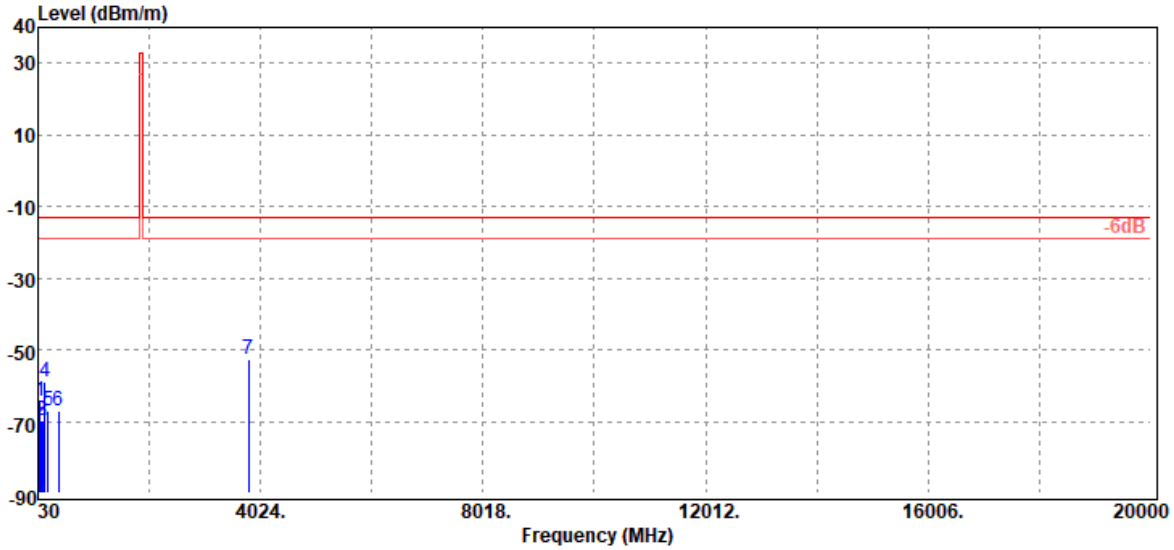
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.41	-54.12	-9.60	-0.69	-13.00	-51.41
109.54	-68.80	-58.09	-9.85	-0.86	-13.00	-55.80
148.34	-59.59	-51.32	-7.27	-1.00	-13.00	-46.59
204.60	-66.72	-62.58	-2.96	-1.18	-13.00	-53.72
393.75	-66.80	-63.61	-1.55	-1.64	-13.00	-53.80
497.54	-67.61	-63.75	-2.00	-1.86	-13.00	-54.61
3765.00	-50.73	-57.40	12.43	-5.76	-13.00	-37.73

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1905 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.79	-46.49	-9.60	-0.70	-13.00	-43.79
86.26	-65.07	-56.76	-7.55	-0.76	-13.00	-52.07
149.31	-50.08	-41.91	-7.17	-1.00	-13.00	-37.08
211.39	-52.13	-48.84	-2.10	-1.19	-13.00	-39.13
309.36	-64.83	-61.39	-1.99	-1.45	-13.00	-51.83
393.75	-64.85	-61.66	-1.55	-1.64	-13.00	-51.85
3810.00	-54.24	-60.92	12.48	-5.80	-13.00	-41.24

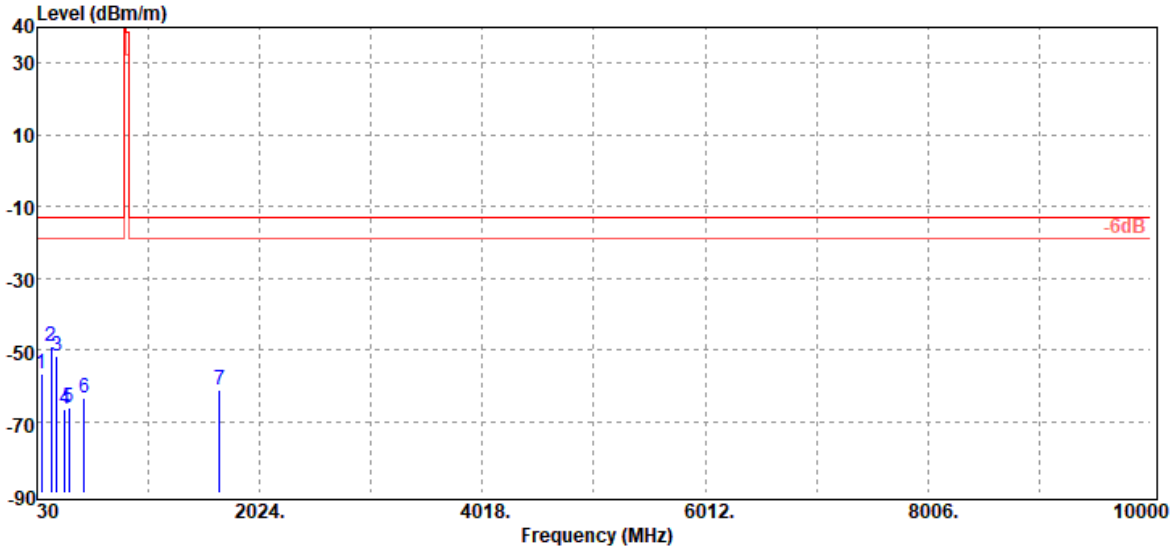
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B25 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1905 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.37	-54.08	-9.60	-0.69	-13.00	-51.37
93.05	-69.68	-61.69	-7.20	-0.79	-13.00	-56.68
109.54	-69.88	-59.17	-9.85	-0.86	-13.00	-56.88
151.25	-58.85	-50.79	-7.05	-1.01	-13.00	-45.85
206.54	-67.14	-63.38	-2.58	-1.18	-13.00	-54.14
395.69	-67.24	-63.98	-1.61	-1.65	-13.00	-54.24
3810.00	-52.77	-59.45	12.48	-5.80	-13.00	-39.77

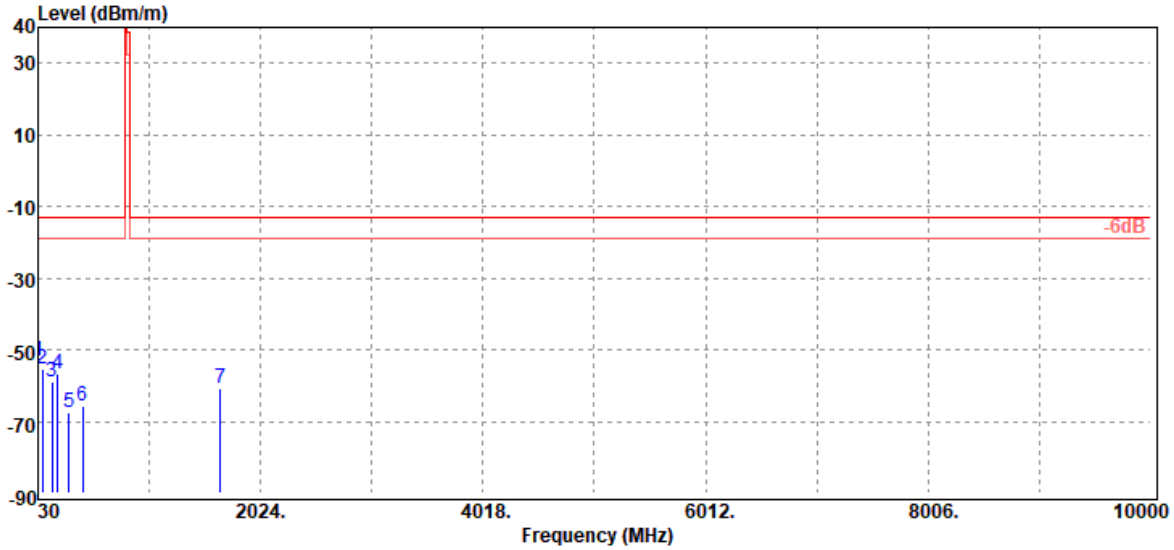
Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B26 15M QPSK 75,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:831.5 MHz		



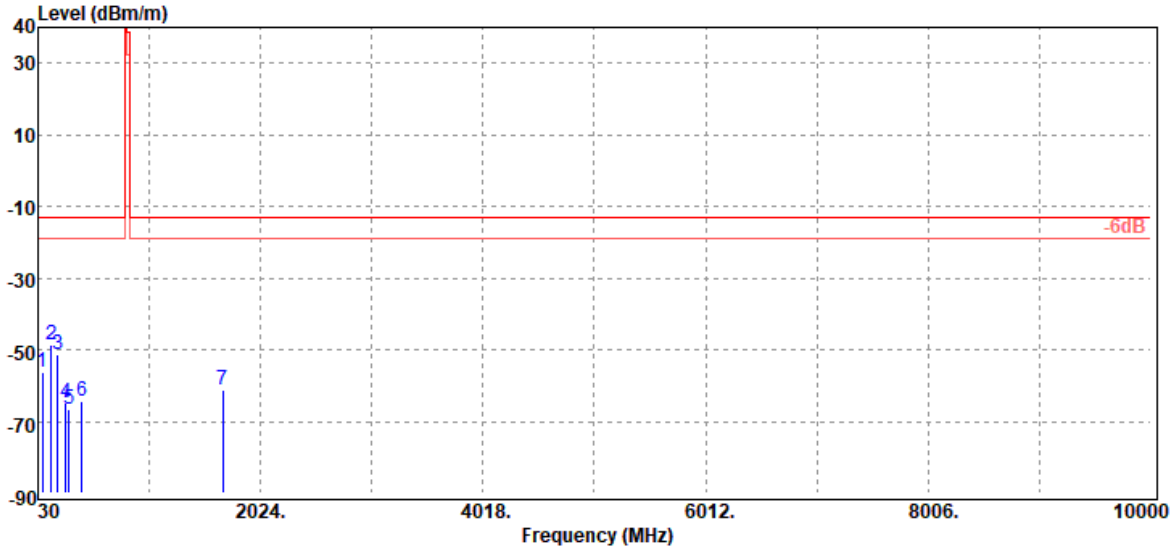
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.49	-46.19	-9.60	-0.70	-13.00	-43.49
153.19	-49.25	-41.51	-6.72	-1.02	-13.00	-36.25
207.51	-51.95	-48.32	-2.45	-1.18	-13.00	-38.95
280.26	-66.50	-62.53	-2.59	-1.38	-13.00	-53.50
313.24	-66.23	-62.77	-2.00	-1.46	-13.00	-53.23
454.86	-63.35	-59.48	-2.10	-1.77	-13.00	-50.35
1663.00	-61.35	-67.56	9.78	-3.57	-13.00	-48.35

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B26 15M QPSK 75,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:831.5 MHz		



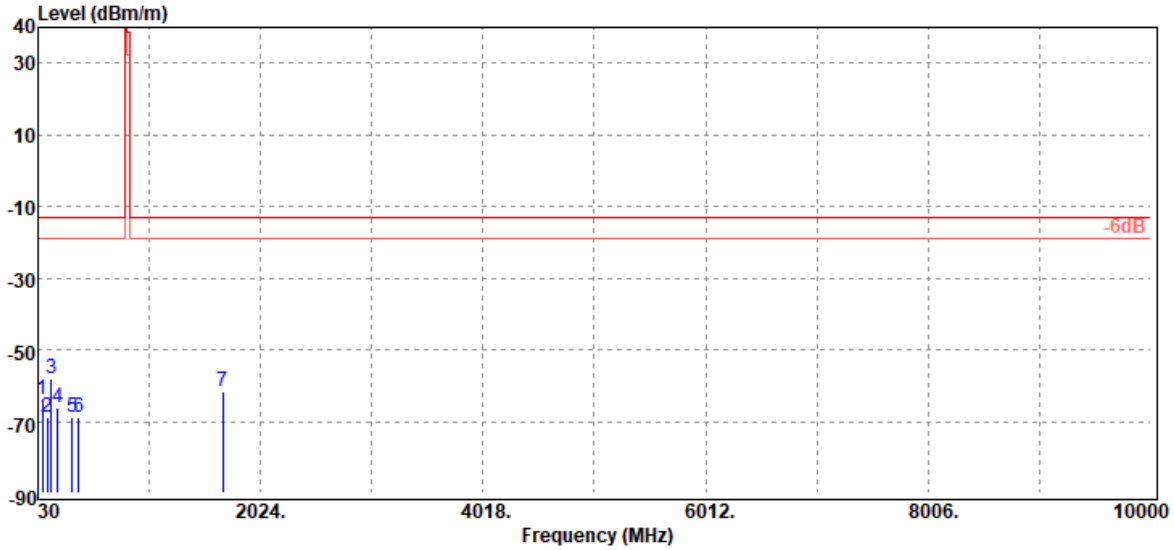
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-53.13	-26.52	-26.13	-0.48	-13.00	-40.13
71.71	-55.54	-45.24	-9.60	-0.70	-13.00	-42.54
153.19	-58.90	-51.16	-6.72	-1.02	-13.00	-45.90
209.45	-56.89	-53.52	-2.18	-1.19	-13.00	-43.89
311.30	-67.56	-64.10	-2.00	-1.46	-13.00	-54.56
427.70	-65.70	-62.09	-1.90	-1.71	-13.00	-52.70
1663.00	-60.67	-66.88	9.78	-3.57	-13.00	-47.67

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B26 15M QPSK 75,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:841.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.27	-45.97	-9.60	-0.70	-13.00	-43.27
151.25	-48.61	-40.55	-7.05	-1.01	-13.00	-35.61
207.51	-51.50	-47.87	-2.45	-1.18	-13.00	-38.50
279.29	-64.77	-60.79	-2.60	-1.38	-13.00	-51.77
309.36	-66.46	-63.02	-1.99	-1.45	-13.00	-53.46
425.76	-64.54	-60.93	-1.90	-1.71	-13.00	-51.54
1683.00	-61.30	-67.61	9.90	-3.59	-13.00	-48.30

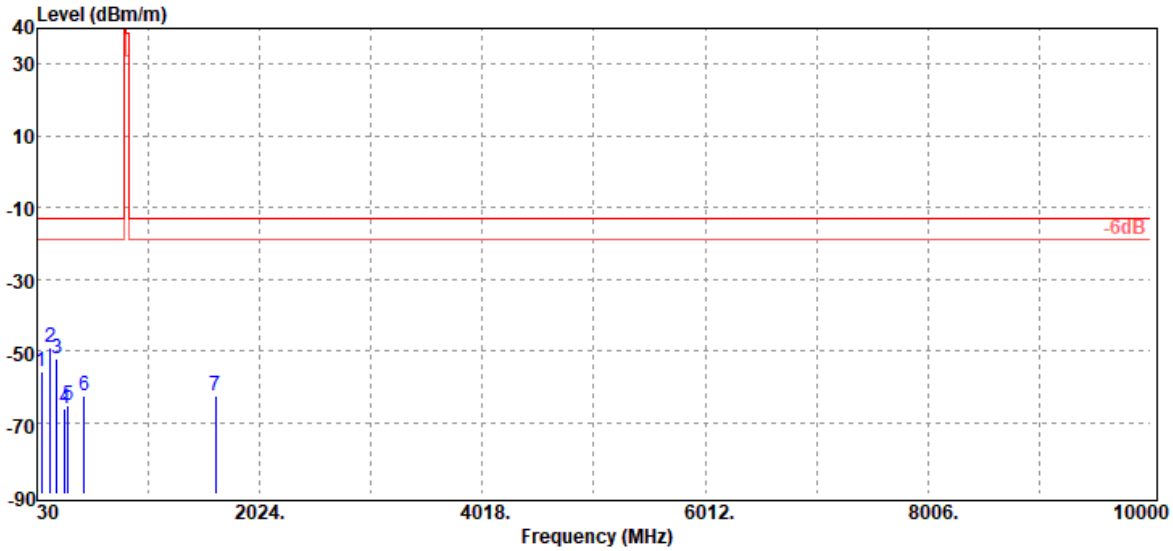
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B26 15M QPSK 75,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:841.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.11	-53.81	-9.60	-0.70	-13.00	-51.11
110.51	-68.78	-58.02	-9.90	-0.86	-13.00	-55.78
151.25	-58.26	-50.20	-7.05	-1.01	-13.00	-45.26
205.57	-66.31	-62.41	-2.72	-1.18	-13.00	-53.31
333.61	-69.07	-65.93	-1.63	-1.51	-13.00	-56.07
396.66	-68.86	-65.58	-1.63	-1.65	-13.00	-55.86
1683.00	-61.48	-67.79	9.90	-3.59	-13.00	-48.48

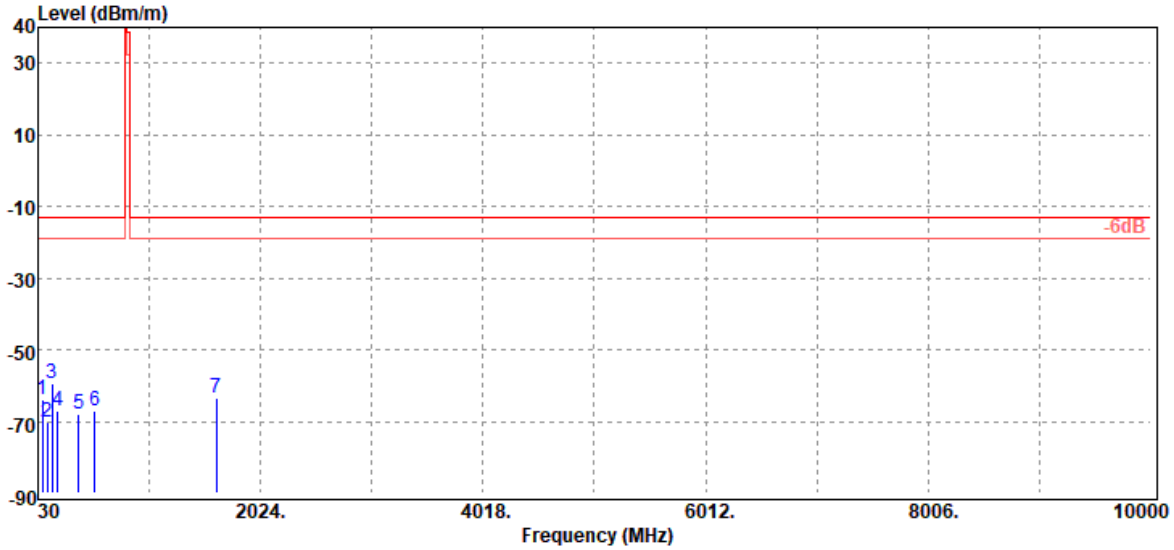
Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE Part90 3M QPSK RB 8,4	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:815.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-55.80	-45.50	-9.60	-0.70	-13.00	-42.80
150.28	-48.96	-40.85	-7.10	-1.01	-13.00	-35.96
209.45	-52.11	-48.74	-2.18	-1.19	-13.00	-39.11
280.26	-66.21	-62.24	-2.59	-1.38	-13.00	-53.21
309.36	-65.18	-61.74	-1.99	-1.45	-13.00	-52.18
454.86	-62.65	-58.78	-2.10	-1.77	-13.00	-49.65
1631.00	-62.77	-68.90	9.66	-3.53	-13.00	-49.77

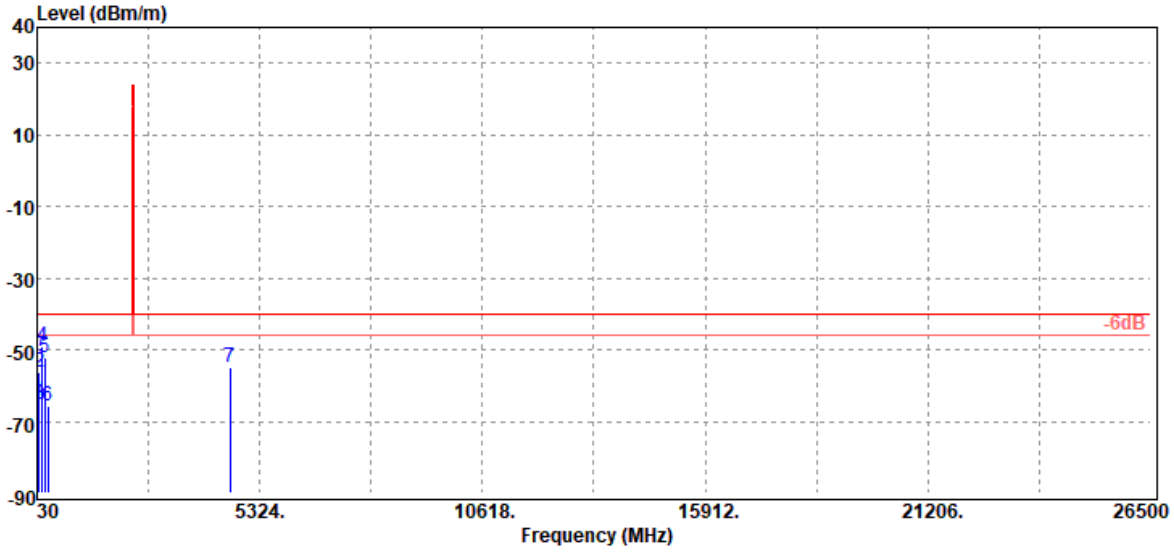
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE Part90 3M QPSK RB 8,4	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:815.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-63.76	-53.47	-9.60	-0.69	-13.00	-50.76
110.51	-70.25	-59.49	-9.90	-0.86	-13.00	-57.25
153.19	-59.20	-51.46	-6.72	-1.02	-13.00	-46.20
204.60	-66.98	-62.84	-2.96	-1.18	-13.00	-53.98
390.84	-67.89	-64.82	-1.43	-1.64	-13.00	-54.89
537.31	-66.86	-63.63	-1.30	-1.93	-13.00	-53.86
1631.00	-63.66	-69.79	9.66	-3.53	-13.00	-50.66

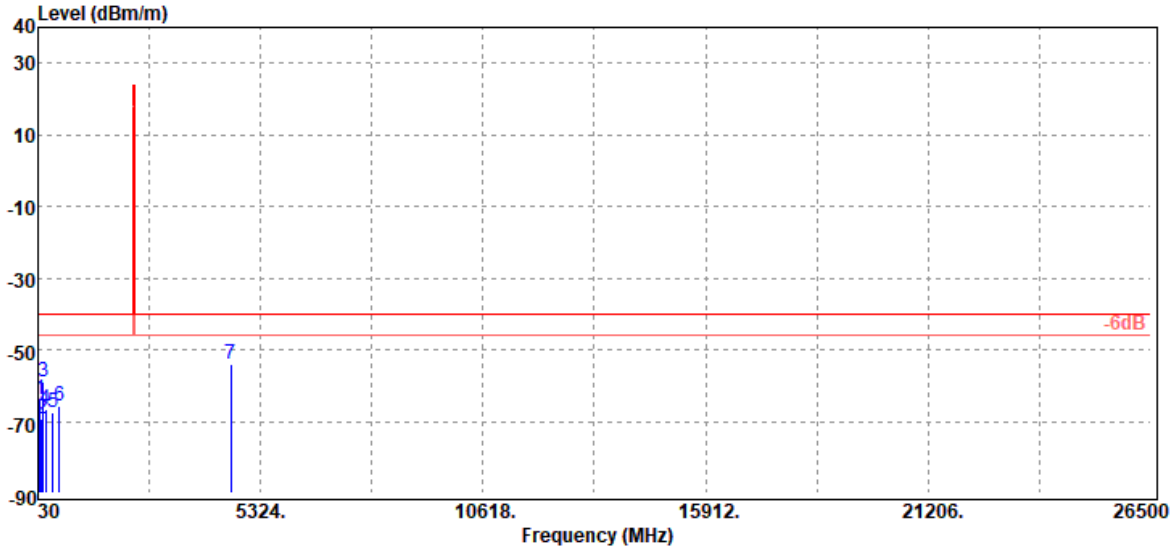
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B30 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2310 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-64.21	-36.55	-27.19	-0.47	-40.00	-24.21
71.71	-56.21	-45.91	-9.60	-0.70	-40.00	-16.21
86.26	-65.20	-56.89	-7.55	-0.76	-40.00	-25.20
151.25	-48.86	-40.80	-7.05	-1.01	-40.00	-8.86
207.51	-52.18	-48.55	-2.45	-1.18	-40.00	-12.18
279.29	-65.85	-61.87	-2.60	-1.38	-40.00	-25.85
4620.00	-55.01	-61.38	12.72	-6.35	-40.00	-15.01

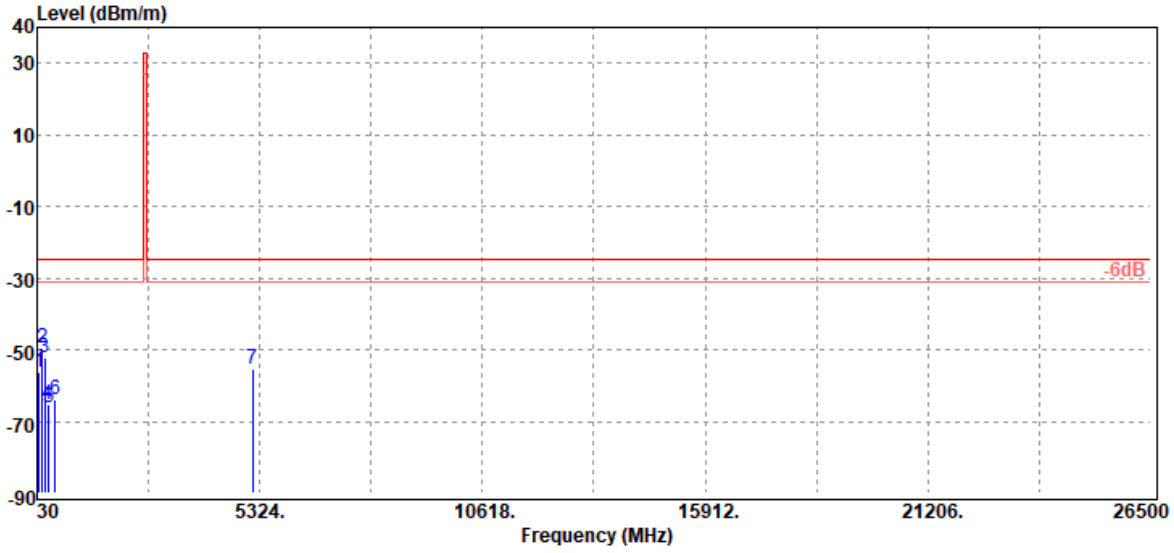
Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B30 10M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2310 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.09	-53.80	-9.60	-0.69	-40.00	-24.09
107.60	-69.08	-58.73	-9.50	-0.85	-40.00	-29.08
151.25	-59.11	-51.05	-7.05	-1.01	-40.00	-19.11
204.60	-66.46	-62.32	-2.96	-1.18	-40.00	-26.46
393.75	-67.51	-64.32	-1.55	-1.64	-40.00	-27.51
547.01	-65.49	-62.35	-1.20	-1.94	-40.00	-25.49
4620.00	-54.10	-60.47	12.72	-6.35	-40.00	-14.10

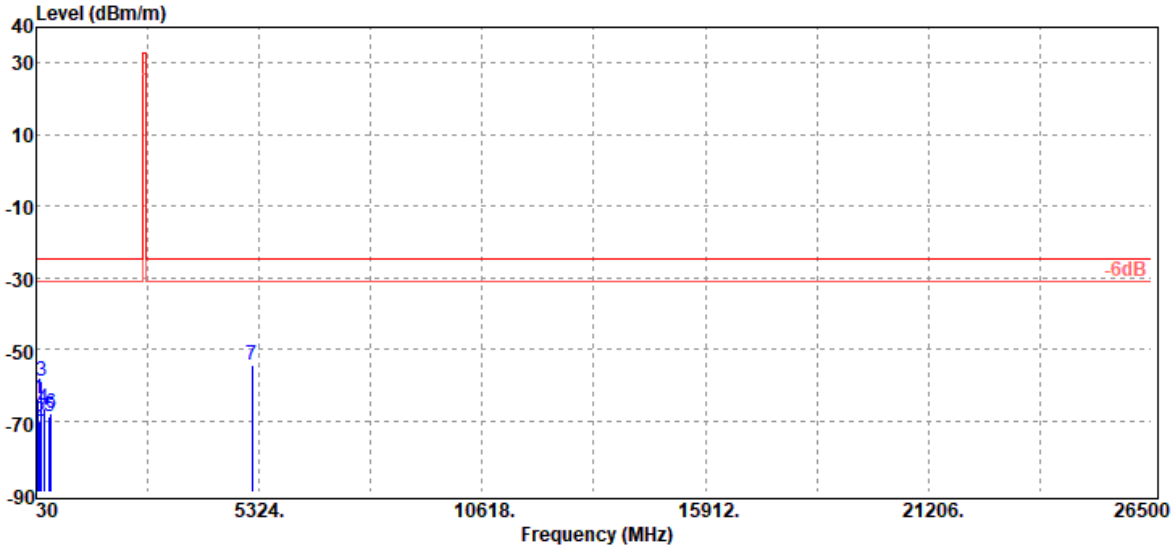
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2580 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.40	-46.10	-9.60	-0.70	-25.00	-31.40
154.16	-49.45	-41.65	-6.78	-1.02	-25.00	-24.45
209.45	-52.08	-48.71	-2.18	-1.19	-25.00	-27.08
279.29	-65.30	-61.32	-2.60	-1.38	-25.00	-40.30
309.36	-66.21	-62.77	-1.99	-1.45	-25.00	-41.21
454.86	-63.83	-59.96	-2.10	-1.77	-25.00	-38.83
5160.00	-55.15	-61.20	12.76	-6.71	-25.00	-30.15

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2580 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.07	-53.77	-9.60	-0.70	-25.00	-39.07
109.54	-70.16	-59.45	-9.85	-0.86	-25.00	-45.16
150.28	-59.14	-51.03	-7.10	-1.01	-25.00	-34.14
204.60	-66.59	-62.45	-2.96	-1.18	-25.00	-41.59
353.01	-68.97	-65.98	-1.44	-1.55	-25.00	-43.97
385.99	-67.91	-64.88	-1.40	-1.63	-25.00	-42.91
5160.00	-54.37	-60.42	12.76	-6.71	-25.00	-29.37

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2595 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-56.44	-46.15	-9.60	-0.69	-25.00	-31.44
154.16	-49.10	-41.30	-6.78	-1.02	-25.00	-24.10
207.51	-52.37	-48.74	-2.45	-1.18	-25.00	-27.37
279.29	-66.24	-62.26	-2.60	-1.38	-25.00	-41.24
311.30	-65.36	-61.90	-2.00	-1.46	-25.00	-40.36
442.25	-64.41	-60.57	-2.10	-1.74	-25.00	-39.41
5190.00	-54.75	-60.95	12.94	-6.74	-25.00	-29.75

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2595 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-63.73	-53.43	-9.60	-0.70	-25.00	-38.73
109.54	-68.61	-57.90	-9.85	-0.86	-25.00	-43.61
151.25	-59.27	-51.21	-7.05	-1.01	-25.00	-34.27
204.60	-66.76	-62.62	-2.96	-1.18	-25.00	-41.76
385.99	-69.19	-66.16	-1.40	-1.63	-25.00	-44.19
544.10	-66.94	-63.78	-1.22	-1.94	-25.00	-41.94
5190.00	-55.36	-61.56	12.94	-6.74	-25.00	-30.36

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2610 MHz		

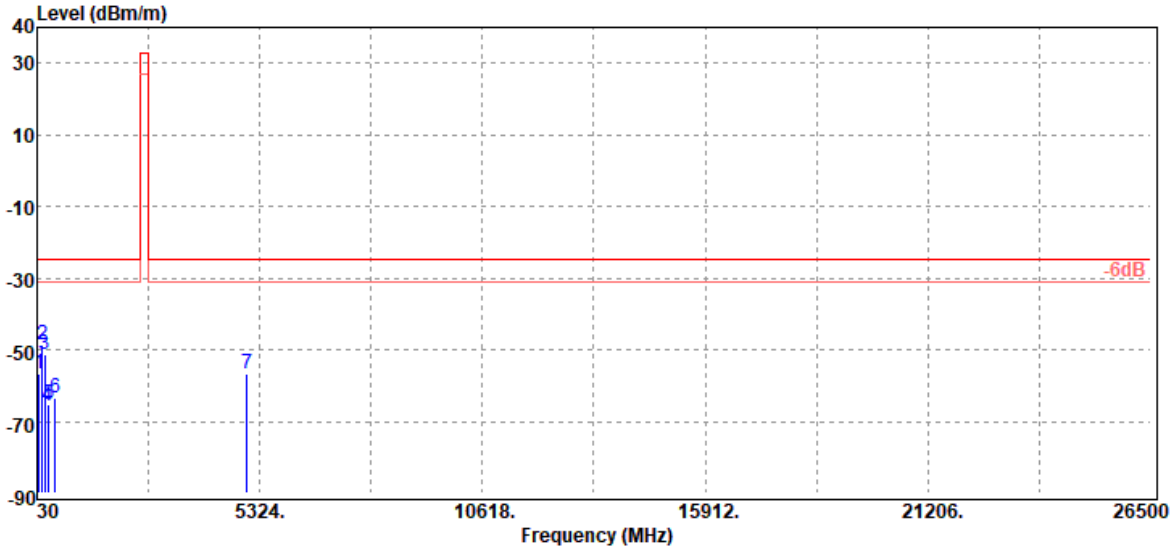
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
73.65	-56.73	-46.93	-9.10	-0.70	-25.00	-31.73
85.29	-65.05	-56.49	-7.81	-0.75	-25.00	-40.05
153.19	-48.80	-41.06	-6.72	-1.02	-25.00	-23.80
209.45	-51.39	-48.02	-2.18	-1.19	-25.00	-26.39
279.29	-65.89	-61.91	-2.60	-1.38	-25.00	-40.89
311.30	-65.15	-61.69	-2.00	-1.46	-25.00	-40.15
5220.00	-55.38	-61.69	13.08	-6.77	-25.00	-30.38

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B38 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2610 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-65.13	-54.84	-9.60	-0.69	-25.00	-40.13
94.99	-69.76	-61.66	-7.30	-0.80	-25.00	-44.76
153.19	-59.41	-51.67	-6.72	-1.02	-25.00	-34.41
204.60	-66.49	-62.35	-2.96	-1.18	-25.00	-41.49
387.93	-67.87	-64.84	-1.40	-1.63	-25.00	-42.87
495.60	-67.44	-63.58	-2.00	-1.86	-25.00	-42.44
5220.00	-56.81	-63.12	13.08	-6.77	-25.00	-31.81

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

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2506 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.70	-46.40	-9.60	-0.70	-25.00	-31.70
151.25	-48.80	-40.74	-7.05	-1.01	-25.00	-23.80
207.51	-51.10	-47.47	-2.45	-1.18	-25.00	-26.10
279.29	-65.80	-61.82	-2.60	-1.38	-25.00	-40.80
309.36	-65.13	-61.69	-1.99	-1.45	-25.00	-40.13
454.86	-63.27	-59.40	-2.10	-1.77	-25.00	-38.27
5012.00	-56.62	-62.53	12.48	-6.57	-25.00	-31.62

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2506 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-54.93	-27.27	-27.19	-0.47	-25.00	-29.93
71.71	-55.46	-45.16	-9.60	-0.70	-25.00	-30.46
86.26	-66.55	-58.24	-7.55	-0.76	-25.00	-41.55
109.54	-69.97	-59.26	-9.85	-0.86	-25.00	-44.97
152.22	-59.42	-51.55	-6.86	-1.01	-25.00	-34.42
206.54	-58.78	-55.02	-2.58	-1.18	-25.00	-33.78
5012.00	-55.90	-61.81	12.48	-6.57	-25.00	-30.90

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2593 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-62.61	-34.95	-27.19	-0.47	-25.00	-37.61
71.71	-57.12	-46.82	-9.60	-0.70	-25.00	-32.12
85.29	-64.90	-56.34	-7.81	-0.75	-25.00	-39.90
153.19	-48.81	-41.07	-6.72	-1.02	-25.00	-23.81
209.45	-51.72	-48.35	-2.18	-1.19	-25.00	-26.72
279.29	-65.54	-61.56	-2.60	-1.38	-25.00	-40.54
5186.00	-55.82	-62.00	12.92	-6.74	-25.00	-30.82

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2593 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-65.02	-54.73	-9.60	-0.69	-25.00	-40.02
91.11	-69.53	-61.84	-6.91	-0.78	-25.00	-44.53
109.54	-70.34	-59.63	-9.85	-0.86	-25.00	-45.34
153.19	-59.47	-51.73	-6.72	-1.02	-25.00	-34.47
202.66	-67.07	-62.16	-3.74	-1.17	-25.00	-42.07
356.89	-68.03	-64.92	-1.55	-1.56	-25.00	-43.03
5186.00	-54.46	-60.64	12.92	-6.74	-25.00	-29.46

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2680 MHz		

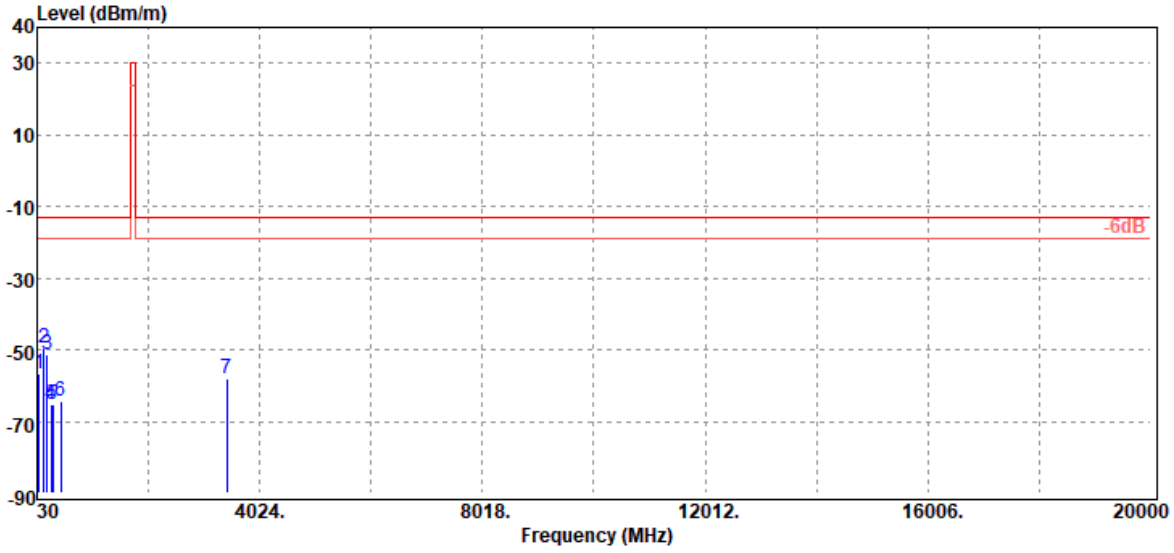
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.34	-46.04	-9.60	-0.70	-25.00	-31.34
88.20	-64.95	-57.02	-7.16	-0.77	-25.00	-39.95
153.19	-48.66	-40.92	-6.72	-1.02	-25.00	-23.66
209.45	-51.80	-48.43	-2.18	-1.19	-25.00	-26.80
280.26	-65.79	-61.82	-2.59	-1.38	-25.00	-40.79
309.36	-65.85	-62.41	-1.99	-1.45	-25.00	-40.85
5360.00	-54.67	-61.02	13.26	-6.91	-25.00	-29.67

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B41 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:2680 MHz		

Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.37	-54.07	-9.60	-0.70	-25.00	-39.37
107.60	-68.35	-58.00	-9.50	-0.85	-25.00	-43.35
154.16	-58.85	-51.05	-6.78	-1.02	-25.00	-33.85
204.60	-66.62	-62.48	-2.96	-1.18	-25.00	-41.62
321.00	-69.85	-66.57	-1.80	-1.48	-25.00	-44.85
390.84	-68.39	-65.32	-1.43	-1.64	-25.00	-43.39
5360.00	-55.09	-61.44	13.26	-6.91	-25.00	-30.09

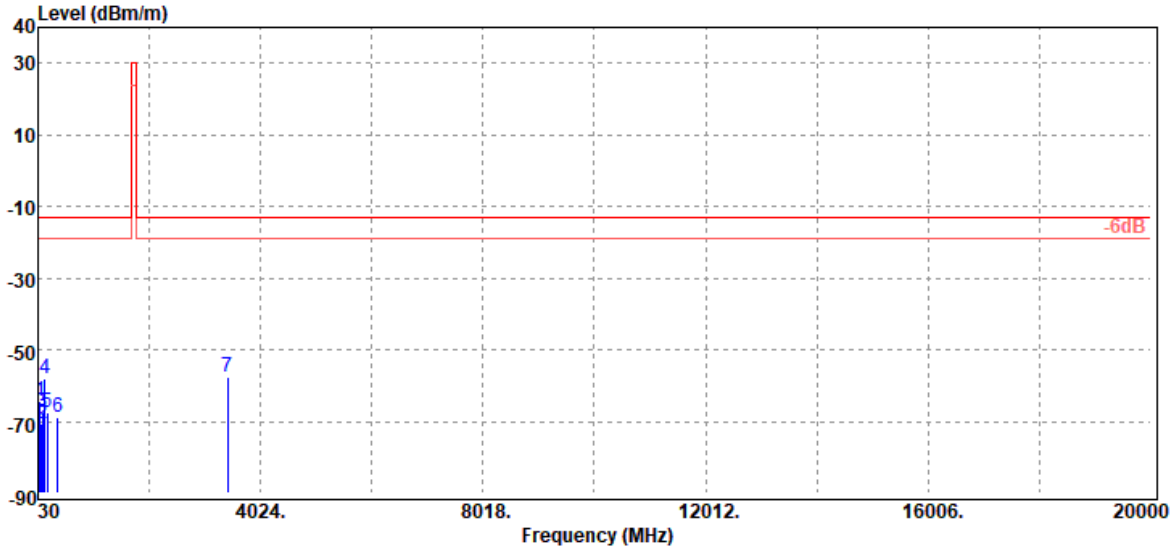
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1720 MHz		



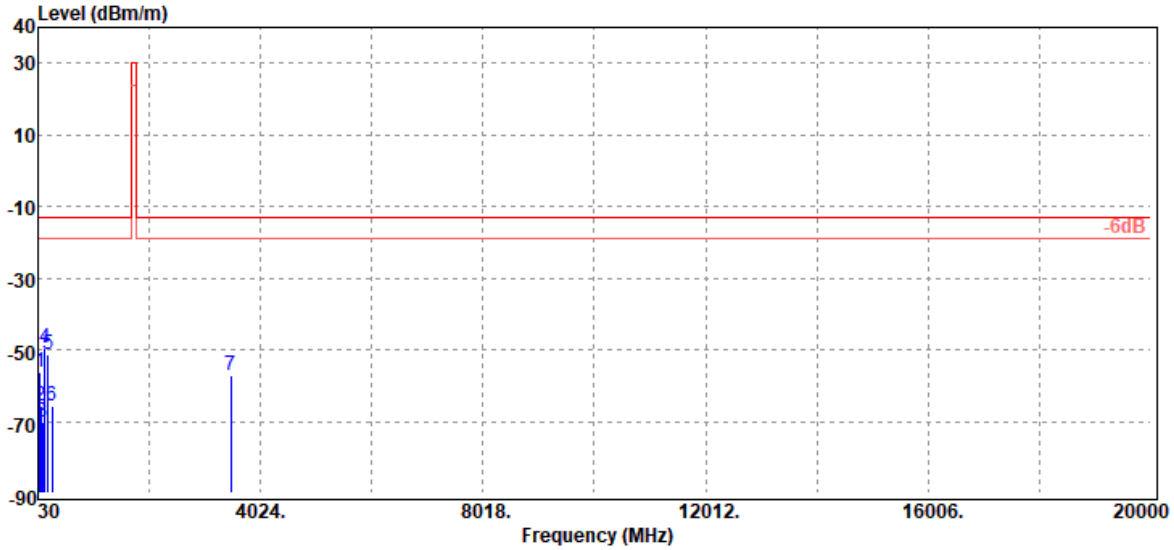
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-56.77	-46.47	-9.60	-0.70	-13.00	-43.77
150.28	-49.42	-41.31	-7.10	-1.01	-13.00	-36.42
207.51	-51.28	-47.65	-2.45	-1.18	-13.00	-38.28
279.29	-65.06	-61.08	-2.60	-1.38	-13.00	-52.06
309.36	-65.46	-62.02	-1.99	-1.45	-13.00	-52.46
454.86	-64.18	-60.31	-2.10	-1.77	-13.00	-51.18
3440.00	-58.11	-65.32	12.72	-5.51	-13.00	-45.11

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH LOW	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1720 MHz		



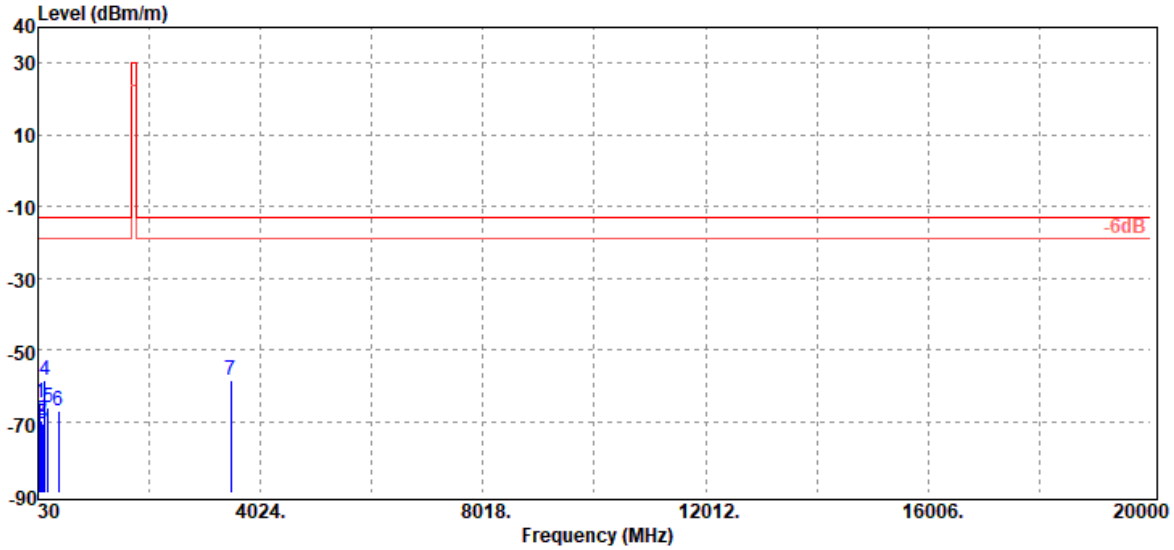
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.21	-53.92	-9.60	-0.69	-13.00	-51.21
91.11	-70.59	-62.90	-6.91	-0.78	-13.00	-57.59
109.54	-67.59	-56.88	-9.85	-0.86	-13.00	-54.59
153.19	-58.09	-50.35	-6.72	-1.02	-13.00	-45.09
201.69	-67.51	-62.22	-4.12	-1.17	-13.00	-54.51
388.90	-68.79	-65.76	-1.40	-1.63	-13.00	-55.79
3440.00	-57.62	-64.83	12.72	-5.51	-13.00	-44.62

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1745 MHz		



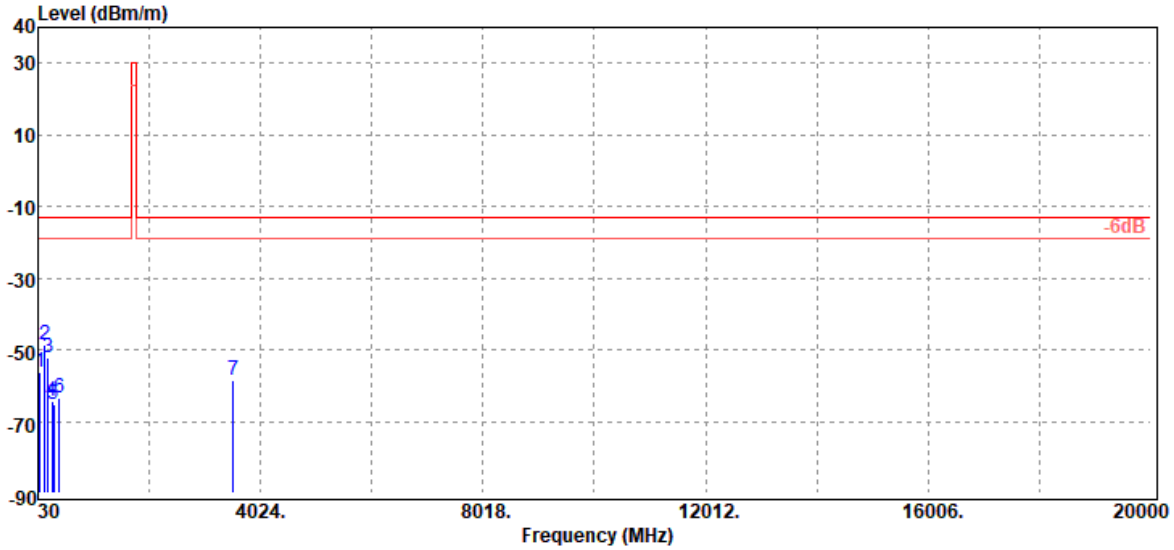
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.41	-46.11	-9.60	-0.70	-13.00	-43.41
86.26	-65.56	-57.25	-7.55	-0.76	-13.00	-52.56
110.51	-70.42	-59.66	-9.90	-0.86	-13.00	-57.42
153.19	-49.45	-41.71	-6.72	-1.02	-13.00	-36.45
209.45	-51.53	-48.16	-2.18	-1.19	-13.00	-38.53
279.29	-65.76	-61.78	-2.60	-1.38	-13.00	-52.76
3490.00	-57.20	-64.19	12.54	-5.55	-13.00	-44.20

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH MID	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1745 MHz		



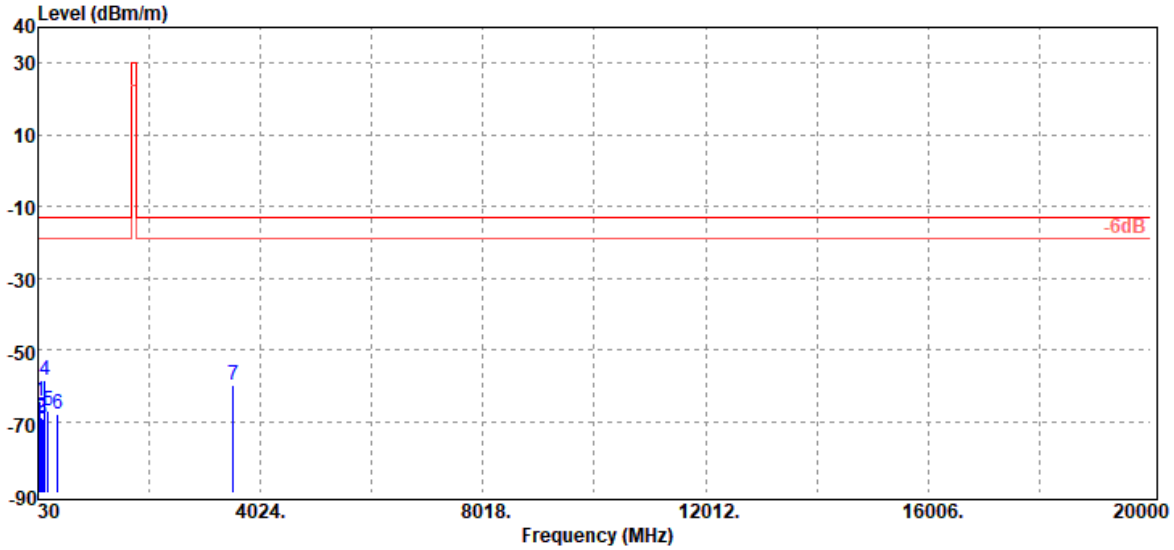
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-64.73	-54.43	-9.60	-0.70	-13.00	-51.73
90.14	-69.81	-62.04	-6.99	-0.78	-13.00	-56.81
107.60	-70.49	-60.14	-9.50	-0.85	-13.00	-57.49
154.16	-58.38	-50.58	-6.78	-1.02	-13.00	-45.38
204.60	-66.18	-62.04	-2.96	-1.18	-13.00	-53.18
393.75	-66.91	-63.72	-1.55	-1.64	-13.00	-53.91
3490.00	-58.55	-65.54	12.54	-5.55	-13.00	-45.55

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1770 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
71.71	-56.47	-46.17	-9.60	-0.70	-13.00	-43.47
153.19	-48.68	-40.94	-6.72	-1.02	-13.00	-35.68
207.51	-52.17	-48.54	-2.45	-1.18	-13.00	-39.17
280.26	-64.45	-60.48	-2.59	-1.38	-13.00	-51.45
309.36	-65.27	-61.83	-1.99	-1.45	-13.00	-52.27
416.06	-63.42	-59.83	-1.90	-1.69	-13.00	-50.42
3540.00	-58.47	-65.30	12.42	-5.59	-13.00	-45.47

Project Number	:T190611W02	Test Date	:2019-06-21
Operation Mode	:LTE B66 20M QPSK 1,0	Temp./Humi.	:25/53
Test Mode	:TX CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plan	Engineer	:Kane
Test Channel	:1770 MHz		



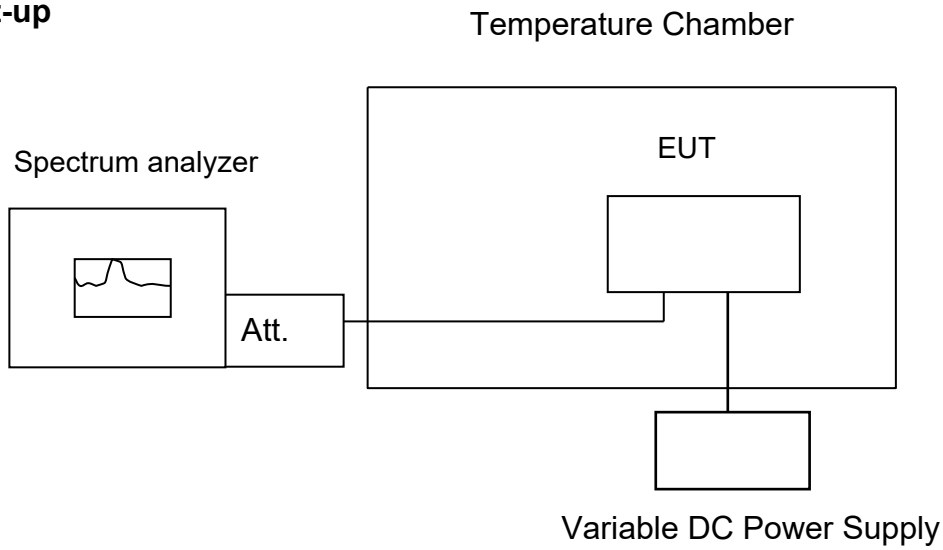
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
70.74	-64.22	-53.93	-9.60	-0.69	-13.00	-51.22
91.11	-68.73	-61.04	-6.91	-0.78	-13.00	-55.73
109.54	-69.13	-58.42	-9.85	-0.86	-13.00	-56.13
153.19	-58.70	-50.96	-6.72	-1.02	-13.00	-45.70
204.60	-67.07	-62.93	-2.96	-1.18	-13.00	-54.07
386.96	-68.10	-65.07	-1.40	-1.63	-13.00	-55.10
3540.00	-59.75	-66.58	12.42	-5.59	-13.00	-46.75

10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicable

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.

10.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
TEMPERATURE	TEMPERA-TURE	HTC-1	EC-HY-01	04/18/2019	04/17/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020

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				
17.71	20	1880.000004	4	4700
15.4	20	1879.999995	-5	4700
13.09	20	1879.999996	-4	4700
7.1 (End point)	20	1880.000002	2	4700
FREQUENCY ERROR vs. Temp.				
15.4	50	1879.999996	-4	4700
15.4	40	1880.000005	5	4700
15.4	30	1879.999995	-5	4700
15.4	20	1880	0	4700
15.4	10	1880.000004	4	4700
15.4	0	1880.000004	4	4700
15.4	-10	1879.999997	-3	4700
15.4	-20	1880.000001	1	4700
15.4	-30	1879.999998	-2	4700

WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.71	20	1732.600002	2	4331
15.4	20	1732.6	0	4331
13.09	20	1732.600004	4	4331
7.1 (End point)	20	1732.599997	-3	4331
FREQUENCY ERROR vs. Temp.				
15.4	50	1732.599996	-4	4331
15.4	40	1732.600001	1	4331
15.4	30	1732.6	0	4331
15.4	20	1732.599995	-5	4331
15.4	10	1732.600003	3	4331
15.4	0	1732.599997	-3	4331
15.4	-10	1732.6	0	4331
15.4	-20	1732.6	0	4331
15.4	-30	1732.600002	2	4331

WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.71	20	836.599999	-1	2091
15.4	20	836.6	0	2091
13.09	20	836.600005	5	2091
7.1 (End point)	20	836.599996	-4	2091
FREQUENCY ERROR vs. Temp.				
15.4	50	836.600005	5	2091
15.4	40	836.600005	5	2091
15.4	30	836.599997	-3	2091
15.4	20	836.600001	1	2091
15.4	10	836.600003	3	2091
15.4	0	836.599995	-5	2091
15.4	-10	836.599996	-4	2091
15.4	-20	836.600004	4	2091
15.4	-30	836.599999	-1	2091

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				
17.71	25	1880.000006	6	4700
15.4	25	1879.999996	-4	4700
13.09	25	1879.999995	-5	4700
7.1 (End Point)	25	1880.000001	1	4700
Freq. ERROR vs. Temp.				
15.4	-30	1879.999996	-4	4700
15.4	-20	1880.000004	4	4700
15.4	-10	1880.000001	1	4700
15.4	0	1880.000004	4	4700
15.4	10	1879.999997	-3	4700
15.4	20	1880.000006	6	4700
15.4	30	1880.000004	4	4700
15.4	40	1880.000006	6	4700
15.4	50	1880.000008	8	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				
17.71	25	1732.500008	8	4331
15.4	25	1732.499997	-3	4331
13.09	25	1732.500002	2	4331
7.1 (End Point)	25	1732.499997	-3	4331
Freq. ERROR vs. Temp.				
15.4	-30	1732.500008	8	4331
15.4	-20	1732.500007	7	4331
15.4	-10	1732.500000	0	4331
15.4	0	1732.499996	-4	4331
15.4	10	1732.499998	-2	4331
15.4	20	1732.500000	0	4331
15.4	30	1732.500006	6	4331
15.4	40	1732.500008	8	4331
15.4	50	1732.500007	7	4331

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				
17.71	25	836.499998	-2	2091
15.4	25	836.499997	-3	2091
13.09	25	836.500000	0	2091
7.1 (End Point)	25	836.499995	-5	2091
Freq. ERROR vs. Temp.				
15.4	-30	836.499996	-4	2091
15.4	-20	836.500002	2	2091
15.4	-10	836.500006	6	2091
15.4	0	836.499998	-2	2091
15.4	10	836.500005	5	2091
15.4	20	836.500005	5	2091
15.4	30	836.500002	2	2091
15.4	40	836.500006	6	2091
15.4	50	836.500002	2	2091

Reference Freq.:	LTE B7 Mid Channel	2535	MHz 10M QPSK CH 21100	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	2534.999998	-2	6338
15.4	25	2535.000005	5	6338
13.09	25	2534.999997	-3	6338
7.1 (End Point)	25	2534.999998	-2	6338
Freq. ERROR vs. Temp.				
15.4	-30	2535.000006	6	6338
15.4	-20	2534.999998	-2	6338
15.4	-10	2535.000002	2	6338
15.4	0	2535.000006	6	6338
15.4	10	2534.999998	-2	6338
15.4	20	2535.000005	5	6338
15.4	30	2534.999998	-2	6338
15.4	40	2535.000006	6	6338
15.4	50	2535.000008	8	6338

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				
17.71	25	707.499998	-2	1769
15.4	25	707.500007	7	1769
13.09	25	707.500004	4	1769
7.1 (End Point)	25	707.499994	-6	1769
Freq. ERROR vs. Temp.				
15.4	-30	707.500008	8	1769
15.4	-20	707.499998	-2	1769
15.4	-10	707.500006	6	1769
15.4	0	707.500003	3	1769
15.4	10	707.500002	2	1769
15.4	20	707.499999	-1	1769
15.4	30	707.499996	-4	1769
15.4	40	707.500002	2	1769
15.4	50	707.500000	0	1769

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				
17.71	25	782.000005	5	1955
15.4	25	781.999997	-3	1955
13.09	25	781.999997	-3	1955
7.1 (End Point)	25	782.000004	4	1955
Freq. ERROR vs. Temp.				
15.4	-30	781.999999	-1	1955
15.4	-20	782.000006	6	1955
15.4	-10	782.000000	0	1955
15.4	0	781.999997	-3	1955
15.4	10	782.000001	1	1955
15.4	20	781.999996	-4	1955
15.4	30	782.000007	7	1955
15.4	40	782.000007	7	1955
15.4	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 = +/- 1.25 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.71	25	793.000000	0	1983
15.4	25	792.999995	-5	1983
13.09	25	792.999996	-4	1983
7.1 (End Point)	25	793.000003	3	1983
Freq. ERROR vs. Temp.				
15.4	-30	792.999995	-5	1983
15.4	-20	792.999997	-3	1983
15.4	-10	793.000000	0	1983
15.4	0	792.999996	-4	1983
15.4	10	792.999997	-3	1983
15.4	20	793.000009	9	1983
15.4	30	793.000002	2	1983
15.4	40	793.000004	4	1983
15.4	50	793.000001	1	1983

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				
17.71	25	709.999995	-5	1775
15.4	25	709.999997	-3	1775
13.09	25	709.999995	-5	1775
7.1 (End Point)	25	710.000001	1	1775
Freq. ERROR vs. Temp.				
15.4	-30	709.999995	-5	1775
15.4	-20	709.999996	-4	1775
15.4	-10	709.999995	-5	1775
15.4	0	709.999997	-3	1775
15.4	10	709.999999	-1	1775
15.4	20	710.000008	8	1775
15.4	30	710.000006	6	1775
15.4	40	710.000008	8	1775
15.4	50	709.999996	-4	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				
17.71	25	1882.500008	8	4700
15.4	25	1882.499999	-1	4700
13.09	25	1882.500006	6	4700
7.1 (End Point)	25	1882.499995	-5	4700
Freq. ERROR vs. Temp.				
15.4	-30	1882.499997	-3	4700
15.4	-20	1882.499999	-1	4700
15.4	-10	1882.500009	9	4700
15.4	0	1882.500005	5	4700
15.4	10	1882.500008	8	4700
15.4	20	1882.500005	5	4700
15.4	30	1882.500002	2	4700
15.4	40	1882.500002	2	4700
15.4	50	1882.499996	-4	4700

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				
17.71	25	831.500003	3	2091
15.4	25	831.499997	-3	2091
13.09	25	831.499996	-4	2091
7.1 (End Point)	25	831.500006	6	2091
Freq. ERROR vs. Temp.				
15.4	-30	831.500004	4	2091
15.4	-20	831.500009	9	2091
15.4	-10	831.500003	3	2091
15.4	0	831.500003	3	2091
15.4	10	831.500008	8	2091
15.4	20	831.500007	7	2091
15.4	30	831.500008	8	2091
15.4	40	831.500001	1	2091
15.4	50	831.500007	7	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)				
17.71	25	818.999999	-1	2048
15.4	25	819.000000	0	2048
13.09	25	818.999996	-4	2048
7.1 (End Point)	25	819.000002	2	2048
Freq. ERROR vs. Temp.				
15.4	-30	818.999998	-2	2048
15.4	-20	819.000005	5	2048
15.4	-10	819.000002	2	2048
15.4	0	819.000006	6	2048
15.4	10	819.000000	0	2048
15.4	20	819.000008	8	2048
15.4	30	819.000008	8	2048
15.4	40	819.000009	9	2048
15.4	50	818.999995	-5	2048

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				
17.71	25	2310.000000	0	6488
15.4	25	2310.000007	7	6488
13.09	25	2310.000002	2	6488
7.1 (End Point)	25	2310.000000	0	6488
Freq. ERROR vs. Temp.				
15.4	-30	2310.000006	6	6488
15.4	-20	2310.000001	1	6488
15.4	-10	2309.999998	-2	6488
15.4	0	2310.000006	6	6488
15.4	10	2310.000007	7	6488
15.4	20	2309.999999	-1	6488
15.4	30	2310.000006	6	6488
15.4	40	2309.999997	-3	6488
15.4	50	2310.000003	3	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				
17.71	25	2595.000000	0	6488
15.4	25	2594.999998	-2	6488
13.09	25	2595.000005	5	6488
7.1 (End Point)	25	2594.999996	-4	6488
Freq. ERROR vs. Temp.				
15.4	-30	2595.000009	9	6488
15.4	-20	2595.000001	1	6488
15.4	-10	2595.000006	6	6488
15.4	0	2595.000008	8	6488
15.4	10	2595.000002	2	6488
15.4	20	2595.000000	0	6488
15.4	30	2595.000001	1	6488
15.4	40	2594.999997	-3	6488
15.4	50	2594.999995	-5	6488

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				
17.71	25	2592.999995	-5	6488
15.4	25	2593.000005	5	6488
13.09	25	2593.000001	1	6488
7.1 (End Point)	25	2592.999998	-2	6488
Freq. ERROR vs. Temp.				
15.4	-30	2593.000001	1	6488
15.4	-20	2593.000008	8	6488
15.4	-10	2593.000001	1	6488
15.4	0	2593.000007	7	6488
15.4	10	2592.999998	-2	6488
15.4	20	2593.000004	4	6488
15.4	30	2593.000003	3	6488
15.4	40	2593.000009	9	6488
15.4	50	2593.000005	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				
17.71	25	1744.999999	-1	6488
15.4	25	1745.000001	1	6488
13.09	25	1745.000007	7	6488
7.1 (End Point)	25	1744.999997	-3	6488
Freq. ERROR vs. Temp.				
15.4	-30	1744.999996	-4	6488
15.4	-20	1744.999998	-2	6488
15.4	-10	1744.999996	-4	6488
15.4	0	1744.999999	-1	6488
15.4	10	1745.000008	8	6488
15.4	20	1745.000004	4	6488
15.4	30	1745.000002	2	6488
15.4	40	1745.000005	5	6488
15.4	50	1744.999995	-5	6488

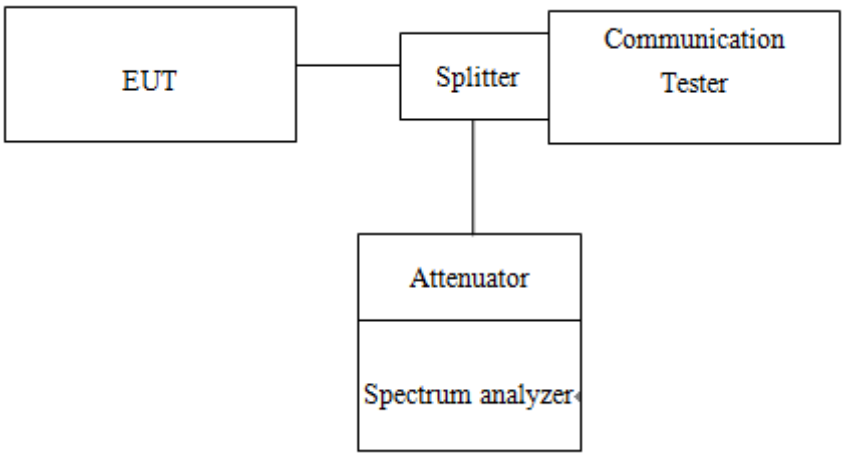
Note: The battery is rated 15.4Vdc.

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

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
TEMPERATURE	TEMPERA-TURE	HTC-1	EC-HY-01	04/18/2019	04/17/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020

11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.33	4.00	3.77
1880	9400	3.34	3.78	3.98
1907.6	9538	3.17	3.67	3.96

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.23	3.79	3.80
1732.6	1413	3.10	3.55	3.55
1752.6	1513	3.25	3.74	3.96

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.41	13	1851.5	18615	6.42	13
1880.0	18900	6.16	13	1880.0	18900	6.35	13
1909.3	19193	5.84	13	1908.5	19185	6.12	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.32	13	1855.0	18650	6.44	13
1880.0	18900	6.31	13	1880.0	18900	6.25	13
1907.5	19175	6.16	13	1905.0	19150	6.28	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.29	13	1860.0	18700	6.67	13
1880.0	18900	6.10	13	1880.0	18900	6.64	13
1902.5	19125	6.26	13	1900.0	19100	6.80	13

LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.72	13	1711.5	19965	6.70	13
1732.5	20175	6.40	13	1732.5	20175	6.44	13
1754.3	20393	6.87	13	1753.5	20385	6.76	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	6.70	13	1715.0	20000	6.70	13
1732.5	20175	6.42	13	1732.5	20175	6.46	13
1752.5	20375	6.61	13	1750.0	20350	6.69	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	6.51	13	1720.0	20050	6.96	13
1732.5	20175	6.46	13	1732.5	20175	6.85	13
1747.5	20325	6.50	13	1745.0	20300	6.84	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	6.19	13	825.5	20415	6.44	13
836.5	20525	6.30	13	836.5	20525	6.60	13
848.3	20643	5.89	13	847.5	20635	6.26	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	6.52	13	829.0	20450	6.51	13
836.5	20525	6.40	13	836.5	20525	6.42	13
846.5	20625	6.36	13	844.0	20600	6.30	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	6.40	13	2505.0	20800	6.62	13
2535.0	21100	6.25	13	2535.0	21100	6.33	13
2567.5	21375	6.41	13	2565.0	21350	6.54	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.58	13	2510	20850	6.85	13
2535.0	21100	6.24	13	2535	21100	6.69	13
2562.5	21375	6.44	13	2560	21350	6.92	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	5.95	13	700.5	23025	6.11	13
707.5	23095	6.51	13	707.5	23095	6.31	13
715.3	23173	6.07	13	714.5	23165	6.21	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.11	13	704.0	23060	6.05	13
707.5	23095	6.27	13	707.5	23095	6.18	13
713.5	23155	6.13	13	711.0	23130	6.21	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	6.45	13	782.0	23230	6.33	13
782.0	23230	6.37	13				
784.5	23255	6.49	13				

LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	6.10	13	793.0	23330	6.05	13
793	23330	6.12	13				
795.5	23355	6.23	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.46	13	709.0	23780	6.23	13
710.0	23790	6.41	13	710.0	23790	6.24	13
713.5	23825	6.17	13	711.0	23800	6.20	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	6.35	13	1851.5	26055	6.42	13
1882.5	26365	6.59	13	1882.5	26365	6.50	13
1914.3	26683	6.23	13	1913.5	26675	6.43	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.38	13	1855.0	26090	6.28	13
1882.5	26365	6.53	13	1882.5	26365	6.35	13
1912.5	26665	6.48	13	1910.0	26640	6.42	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	6.83	13	1860.0	26140	7.21	13
1882.5	26365	6.85	13	1882.5	26365	7.23	13
1907.5	26615	6.92	13	1905.0	26590	7.21	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	6.36	13	815.5	26705	6.34	13
831.5	26865	6.41	13	831.5	26865	6.46	13
848.3	27033	5.97	13	847.5	27025	6.41	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	6.48	13	820.0	26750	6.47	13
831.5	26865	6.43	13	831.5	26865	6.33	13
846.5	27015	6.39	13	844.0	26990	6.35	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
822.5	26775	6.89	13				
831.5	26865	6.92	13				
841.5	26965	6.86	13				

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	6.55	13	815.5	26705	6.64	13
819.0	26740	6.54	13	819	26740	6.56	13
823.3	26783	6.28	13	822.5	26775	6.42	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	6.63	13	819.0	26740	6.35	13
819.0	26740	6.52	13				
821.5	26765	6.34	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.30	Limit			6.30	Limit
2307.5	27685	6.18	13	2310.0	27710	6.13	13
2310.0	27710	6.28	13				
2312.5	27735	6.29	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	8.83	13	2575	37800	8.52	13
2595.0	38000	9.94	13	2595	38000	8.44	13
2617.5	38225	10.83	13	2615	38200	8.76	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	9.09	13	2580.0	37850	11.53	13
2595.0	38000	9.93	13	2595.0	38000	10.75	13
2612.5	38175	9.81	13	2610.0	38150	11.12	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	9.67	13	2501.0	39700	8.82	13
2593.0	40620	10.02	13	2593.0	40620	8.47	13
2687.5	41565	9.18	13	2685.0	41540	8.70	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	9.43	13	2506.0	39750	9.28	13
2593.0	40620	8.04	13	2593.0	40620	9.41	13
2682.5	41515	9.08	13	2680.0	41490	9.73	13

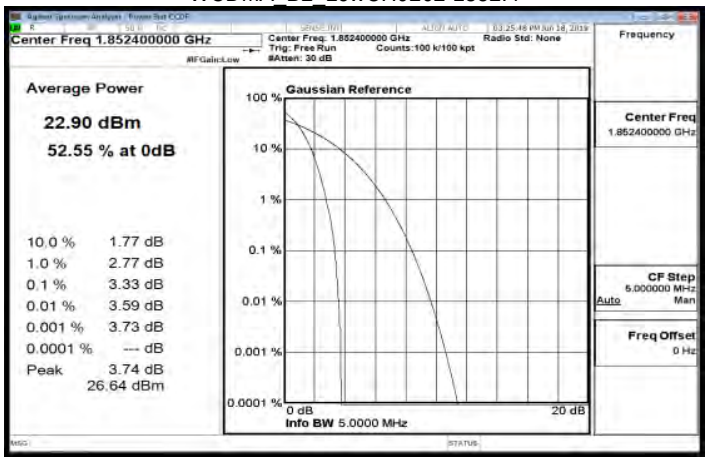
LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.57	13	1711.5	131987	7.01	13
1745.0	132322	6.53	13	1745.0	132322	6.65	13
1779.3	132665	6.71	13	1778.5	132657	6.57	13

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	6.70	13	1715.0	132022	6.59	13
1745.0	132322	6.69	13	1745.0	132322	6.40	13
1777.5	132647	6.64	13	1775.0	132622	6.42	13

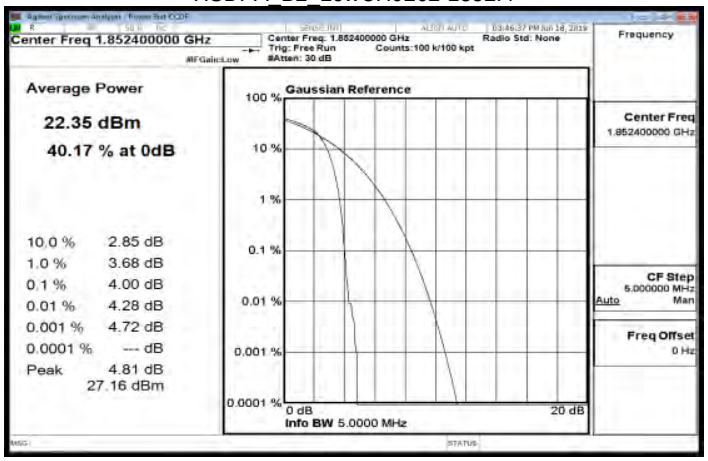
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.88	13	1720.0	132072	7.16	13
1745.0	132322	6.87	13	1745.0	132322	7.21	13
1772.5	132597	6.84	13	1770.0	132572	7.14	13

Please refer to next page for test plots.

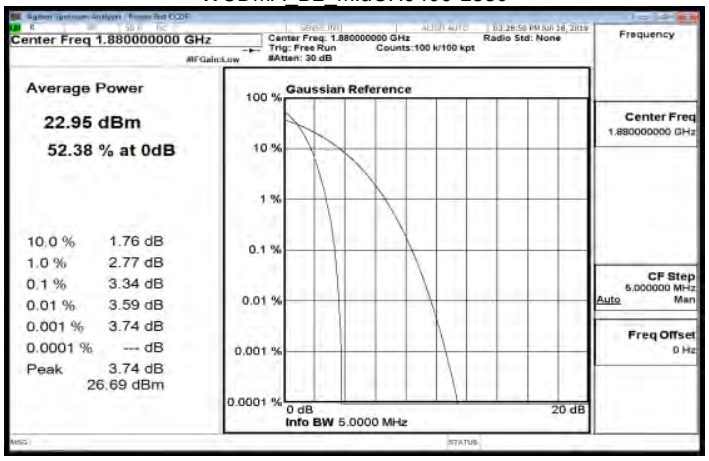
WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



WCDMA_B2_MidCH9400-1880



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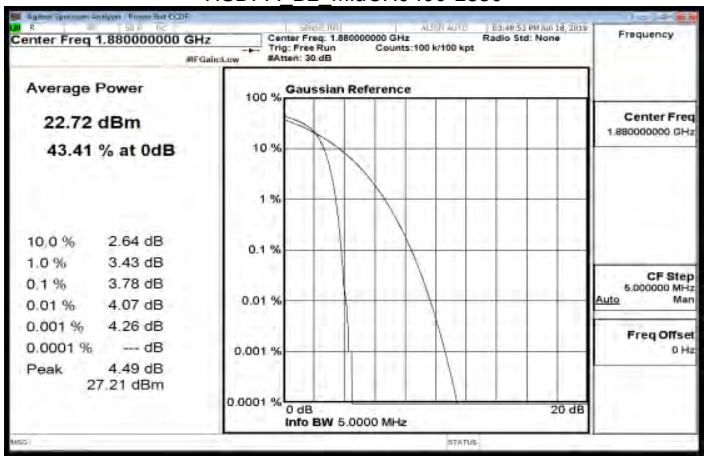
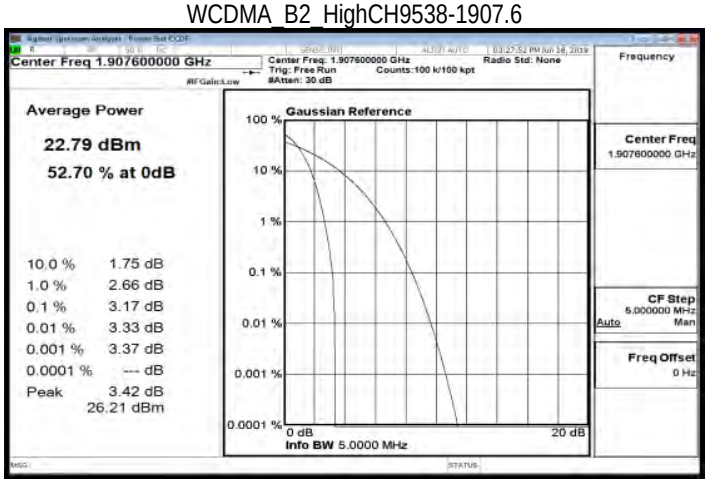


WCDMA_B2_HighCH9538-1907.6



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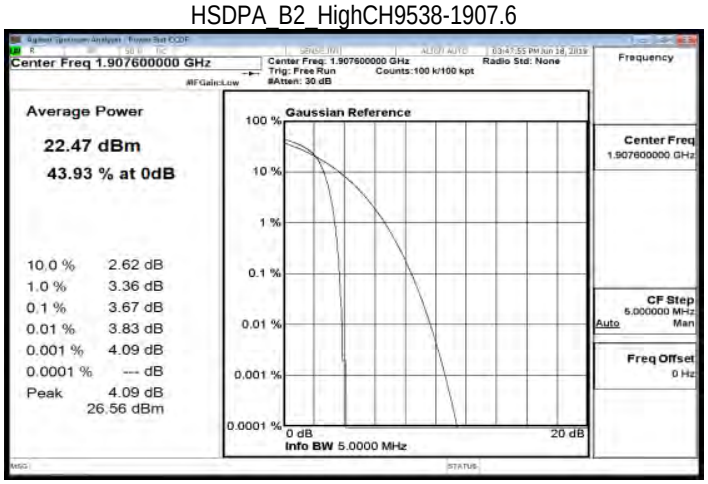

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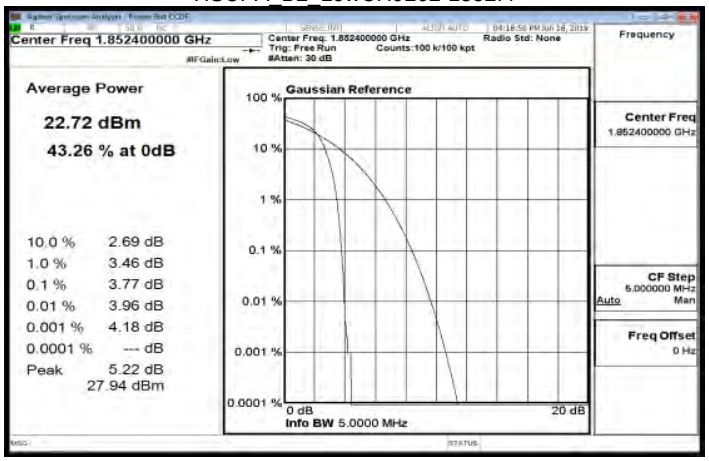

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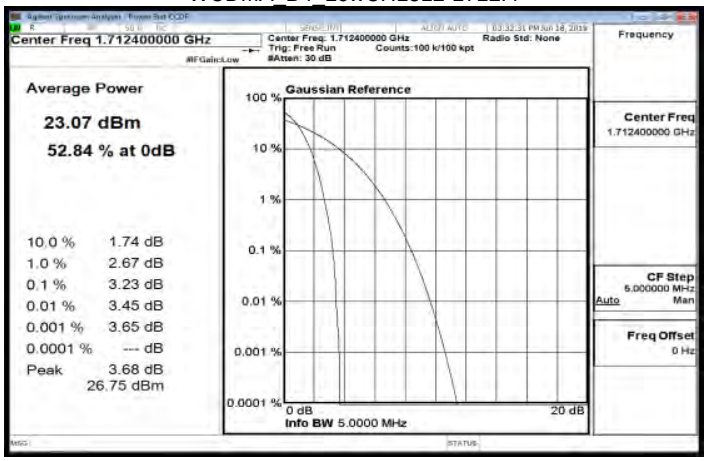

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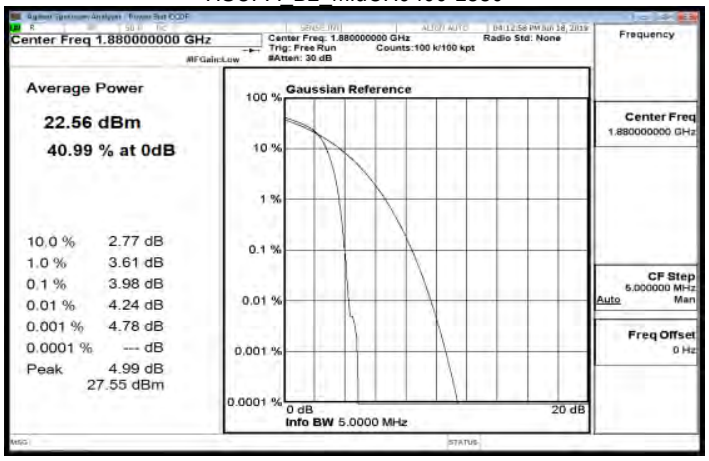

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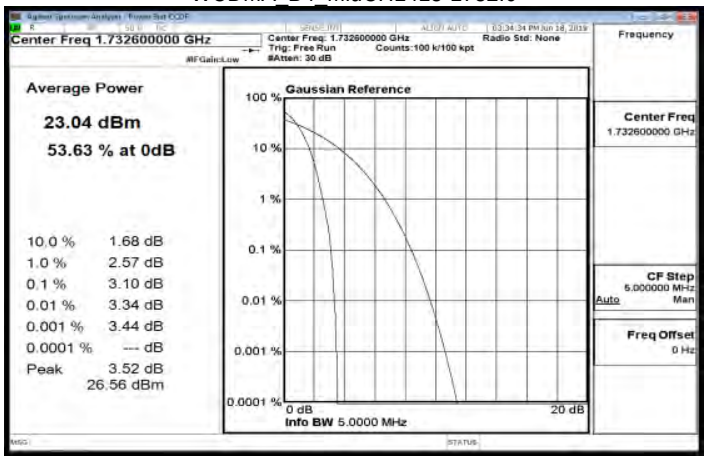

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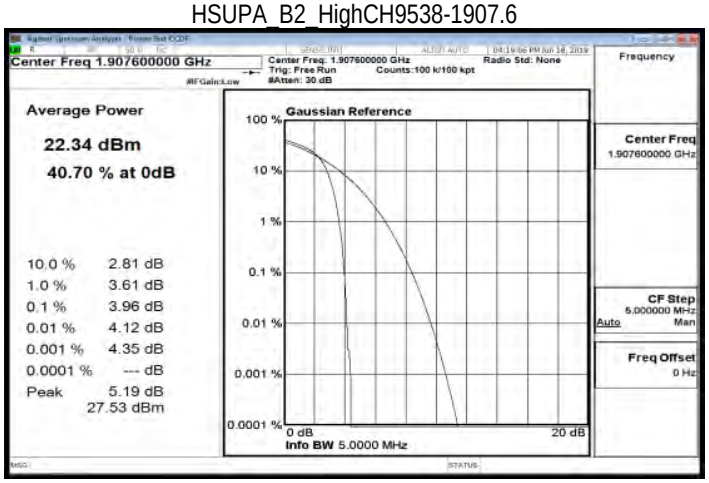

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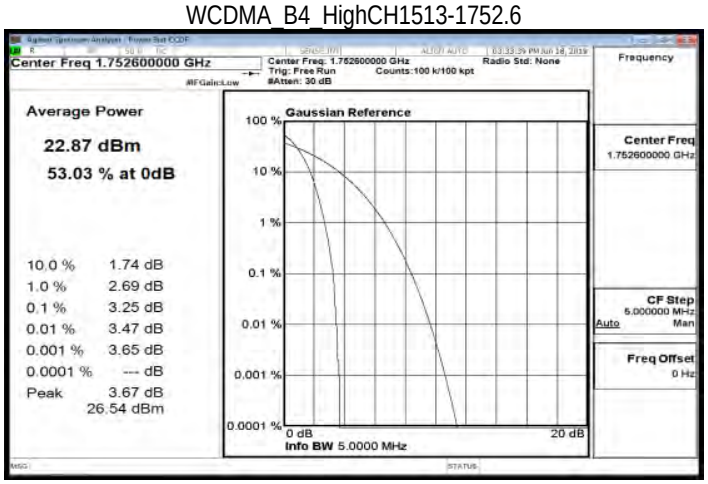

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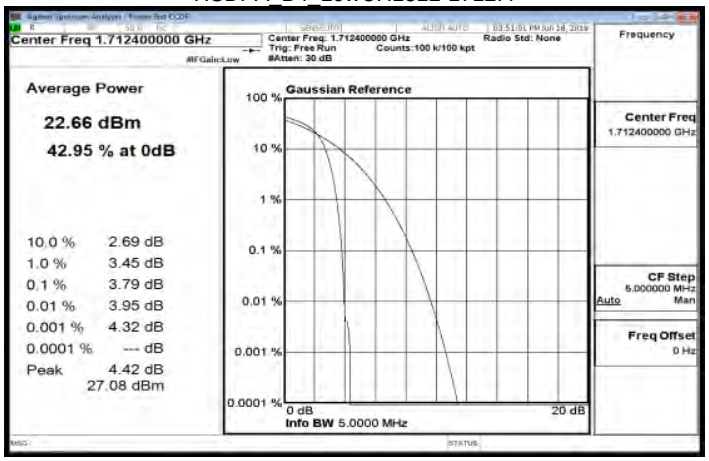

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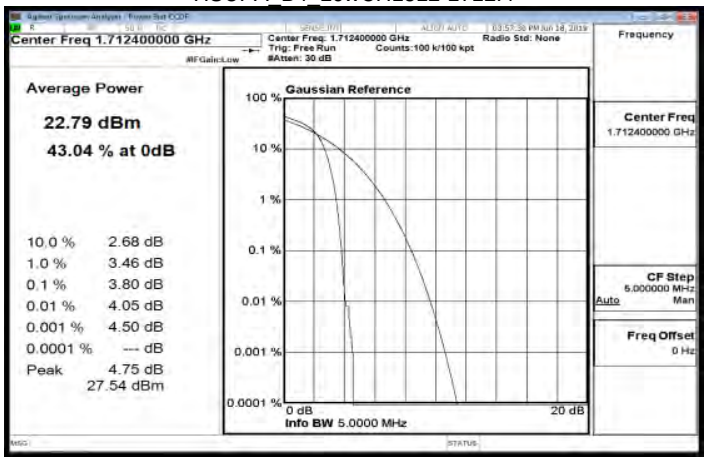

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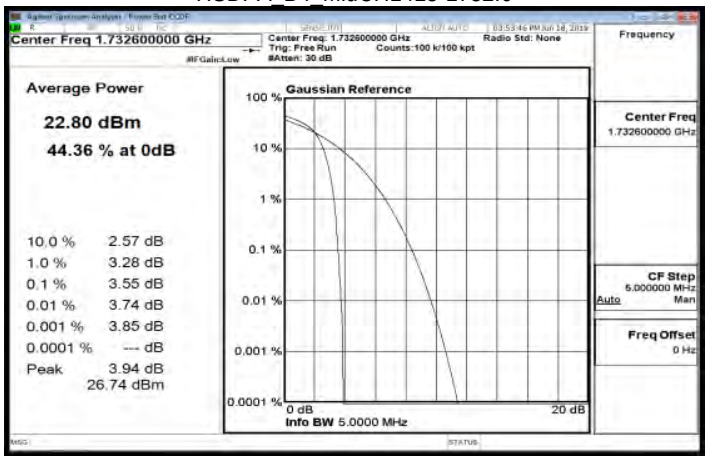

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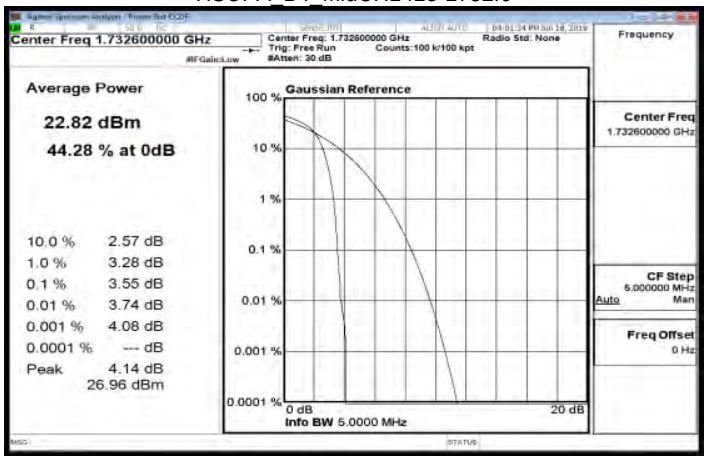

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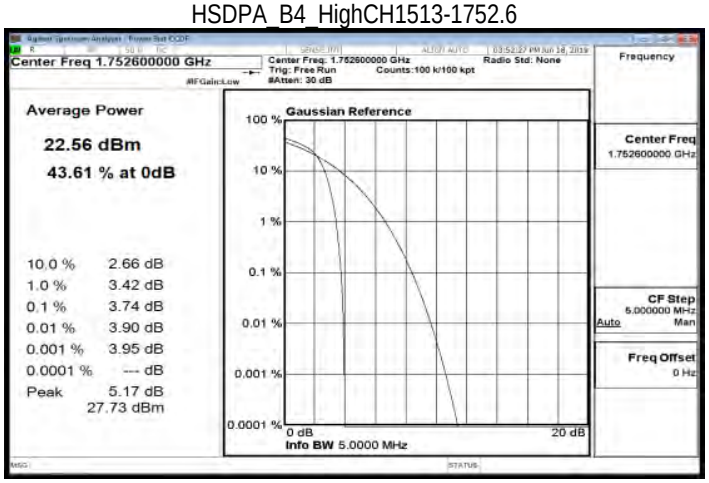

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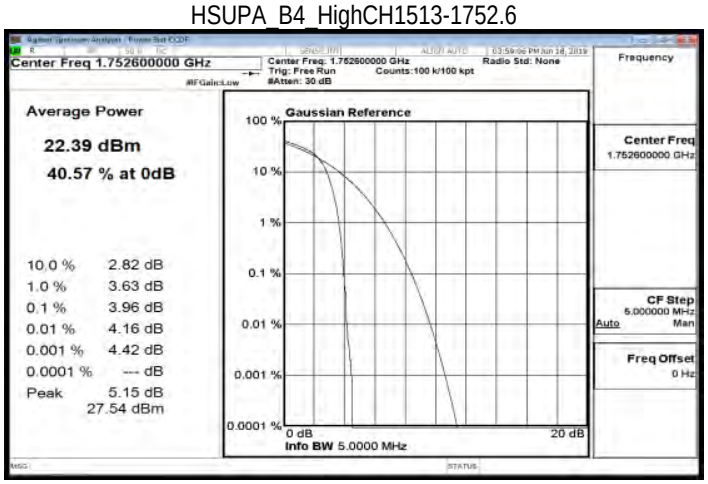
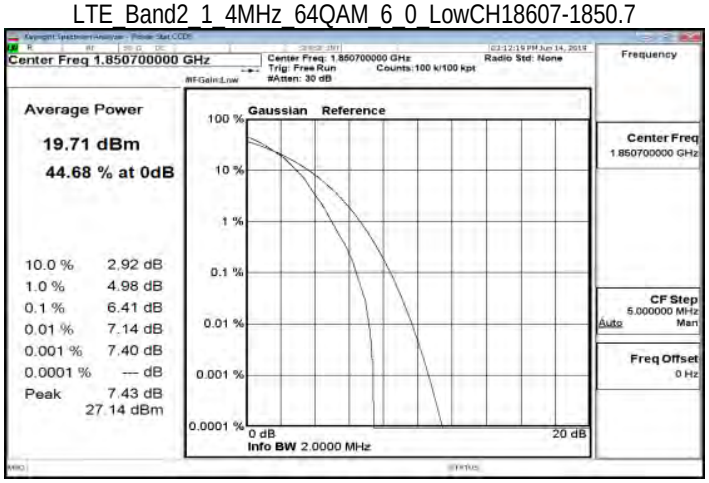


LTE_Band2_1_4MHz_64QAM_6_0_LowCH18607-1850.7



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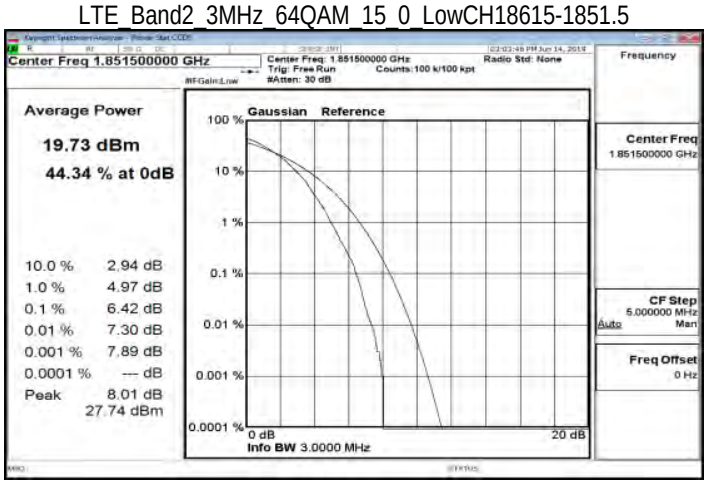
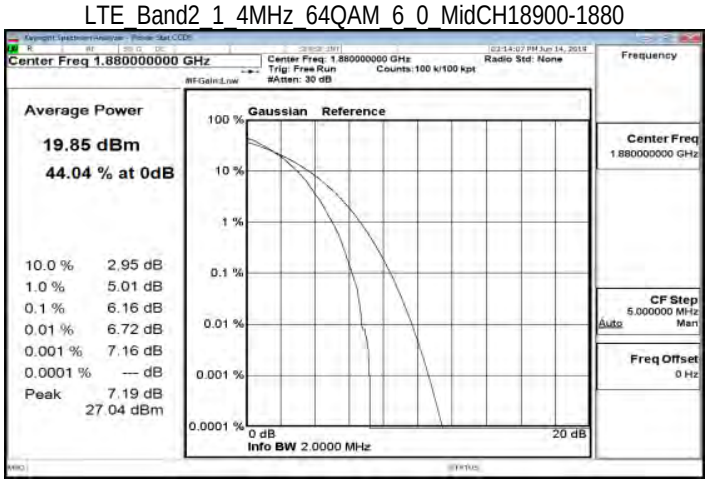


LTE_Band2_1_4MHz_64QAM_6_0_MidCH18900-1880



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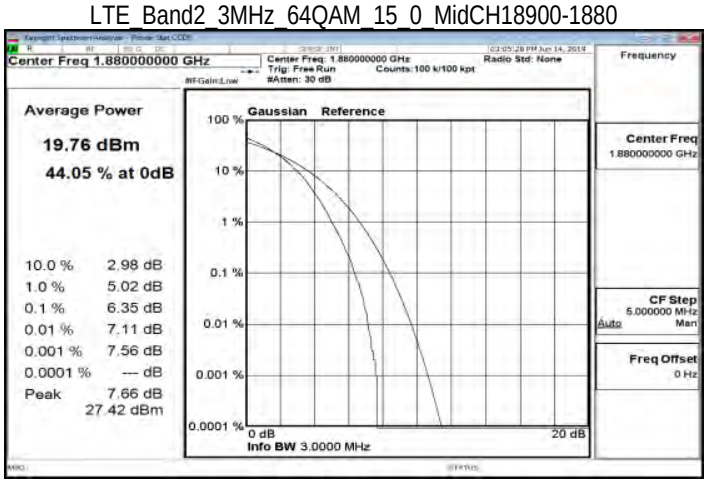

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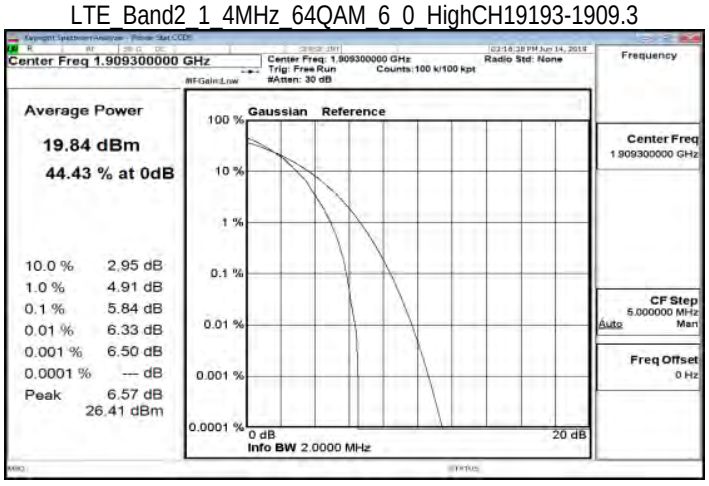

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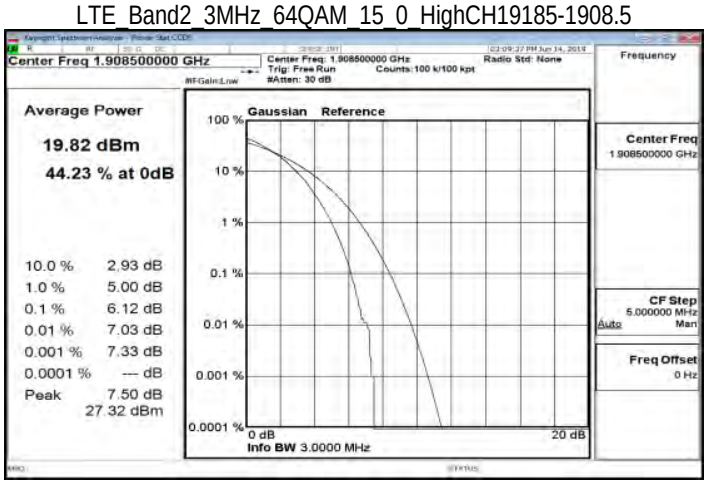

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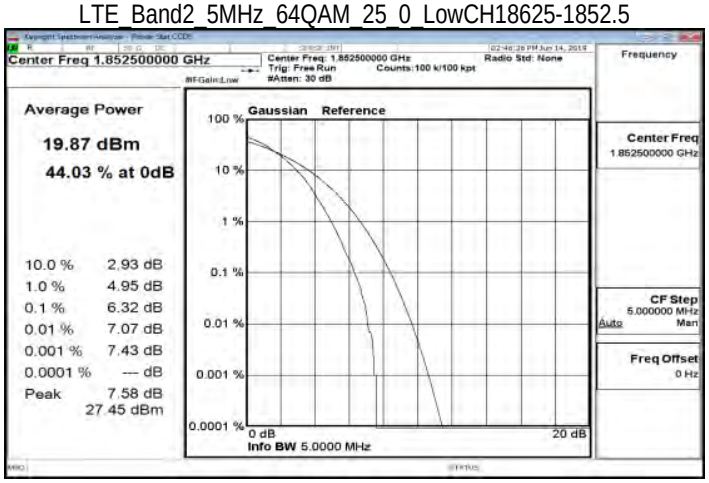

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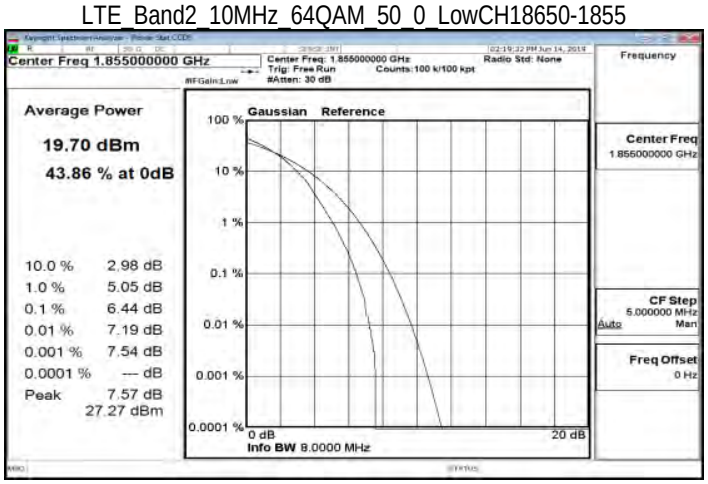
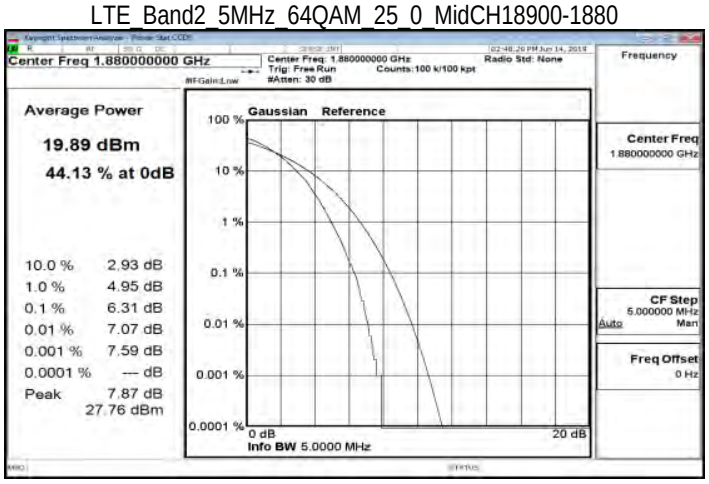
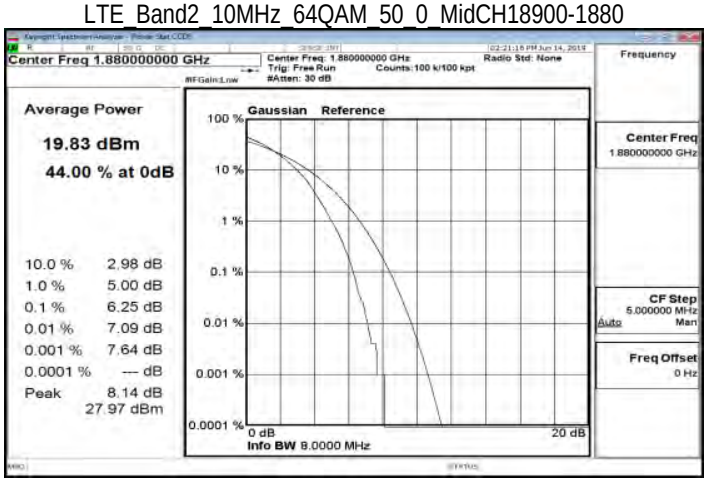


LTE_Band2_5MHz_64QAM_25_0_MidCH18900-1880



LTE_Band2_10MHz_64QAM_50_0_MidCH18900-1880



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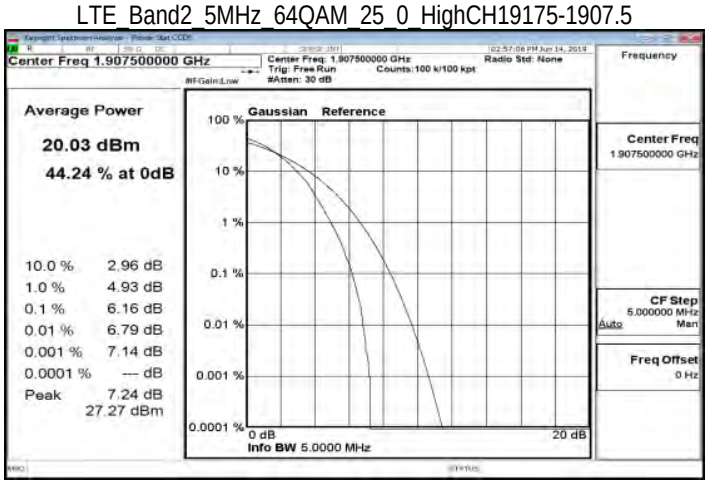

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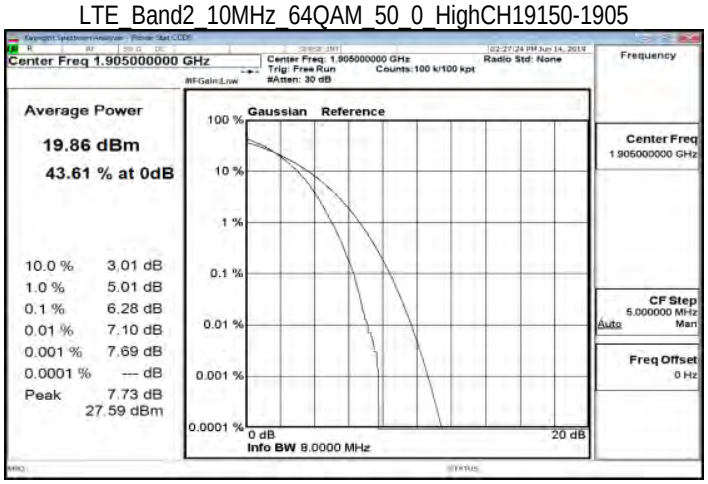

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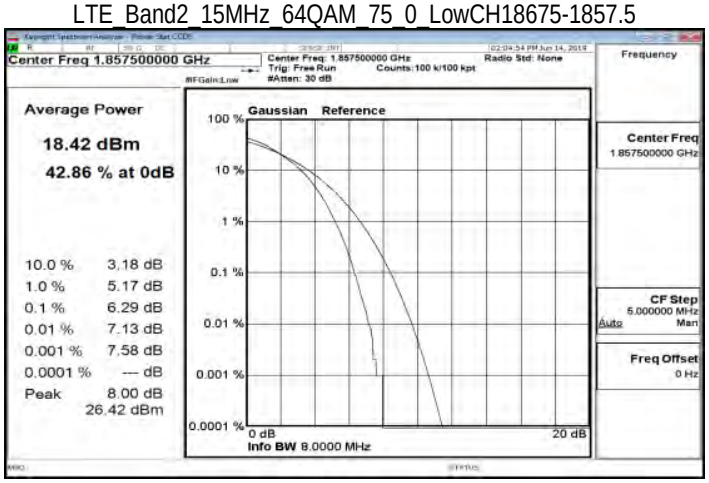

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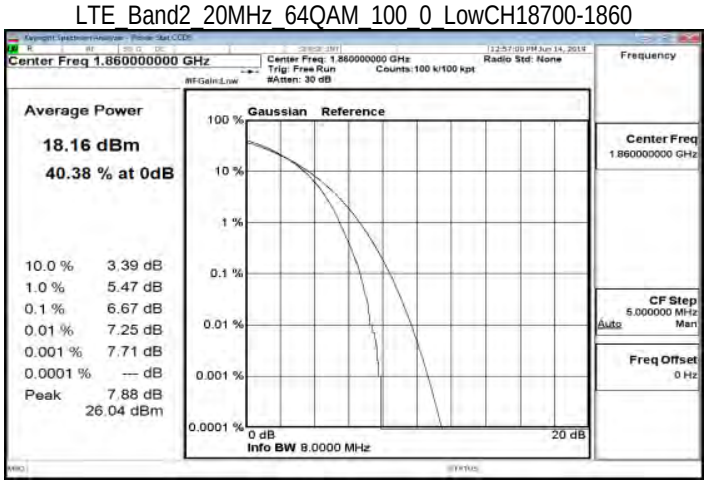
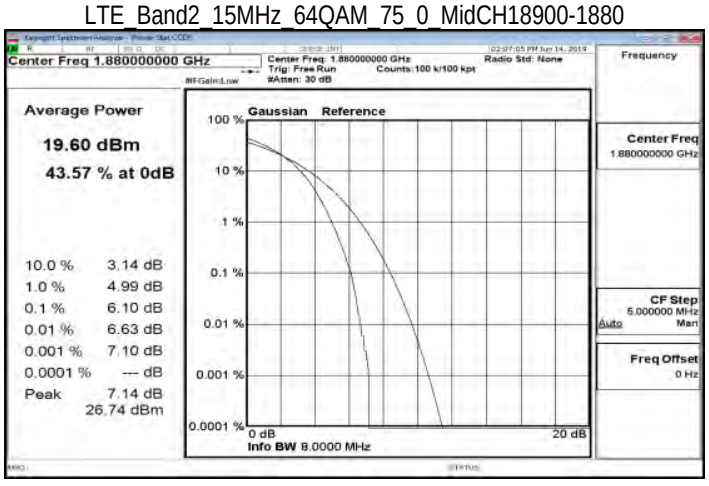
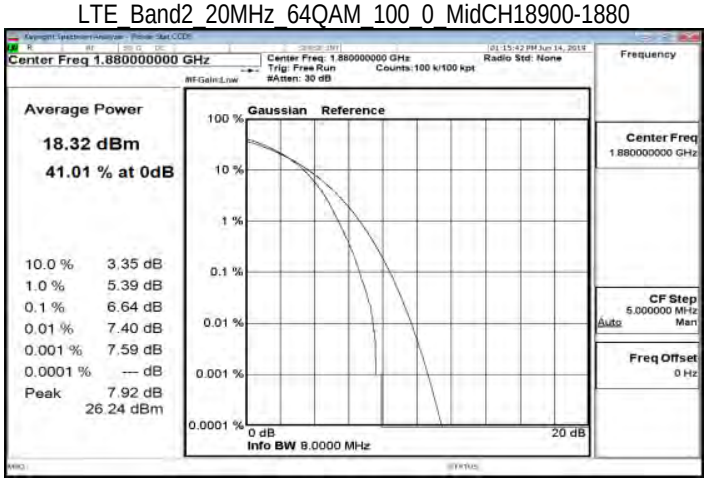


LTE_Band2_15MHz_64QAM_75_0_MidCH18900-1880



LTE_Band2_20MHz_64QAM_100_0_MidCH18900-1880



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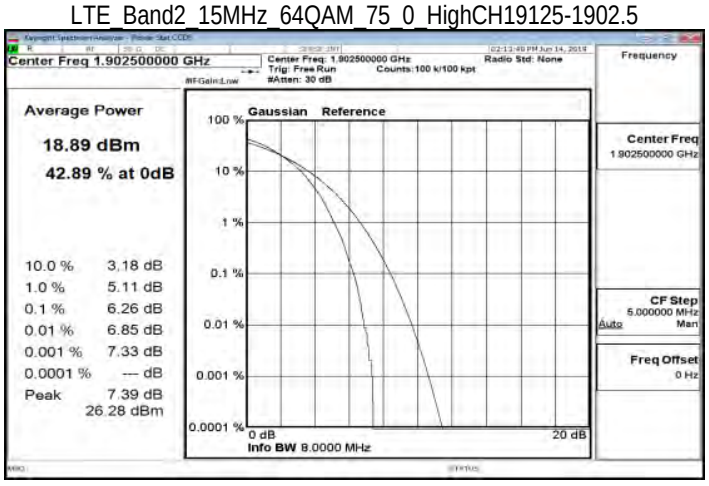
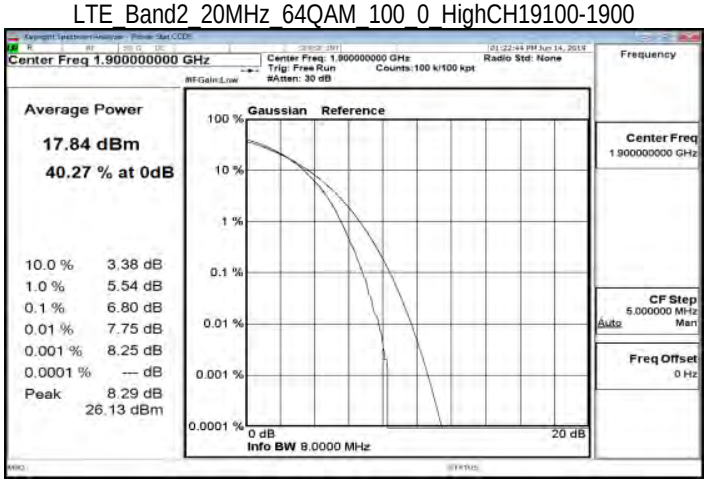


LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900



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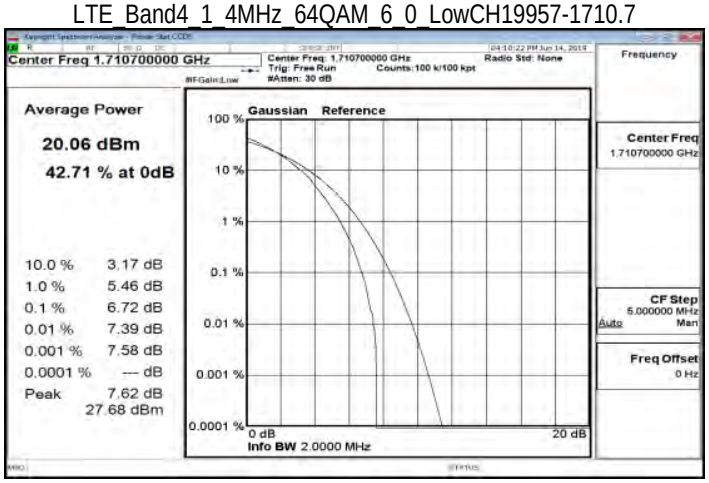
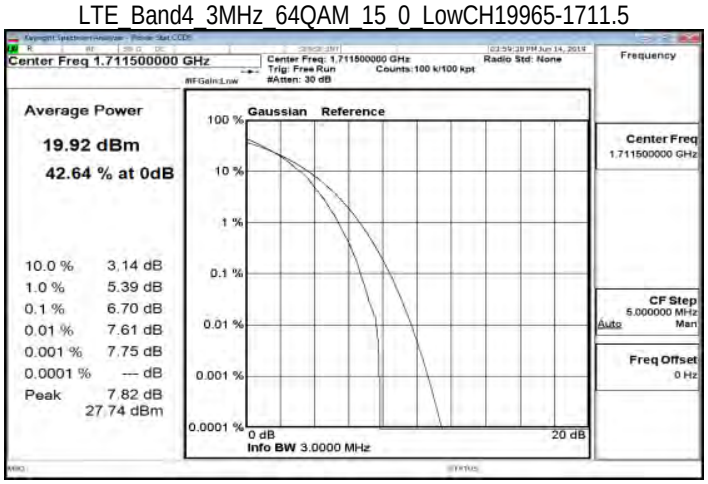
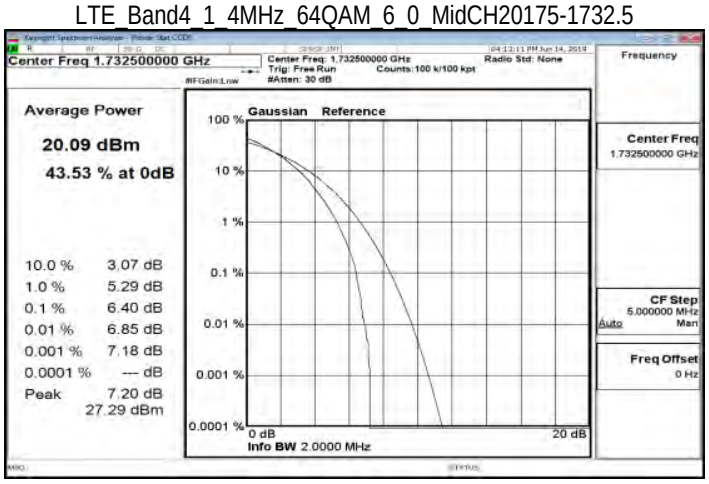


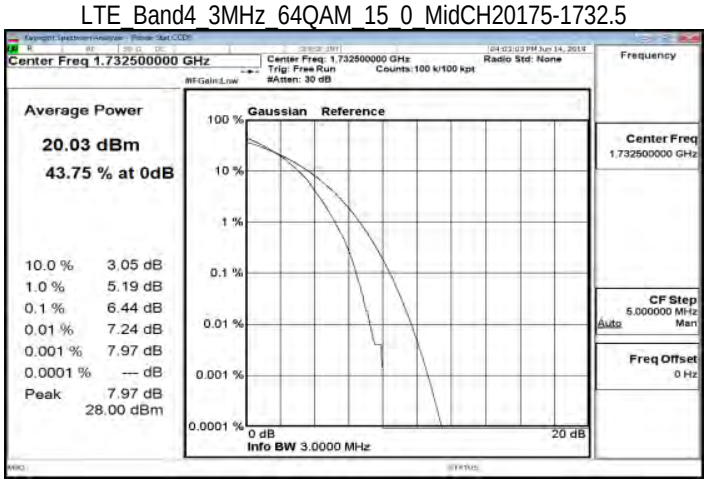
LTE_Band4_3MHz_64QAM_15_0_LowCH19965-1711.5



LTE_Band4_1_4MHz_64QAM_6_0_MidCH20175-1732.5



LTE_Band4_3MHz_64QAM_15_0_MidCH20175-1732.5



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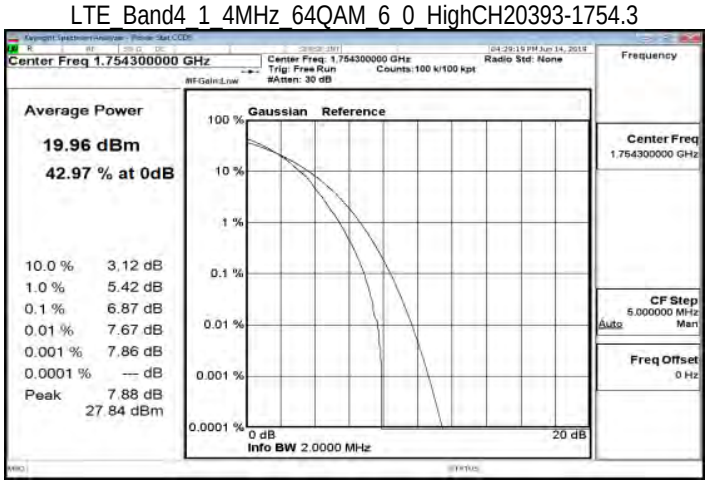

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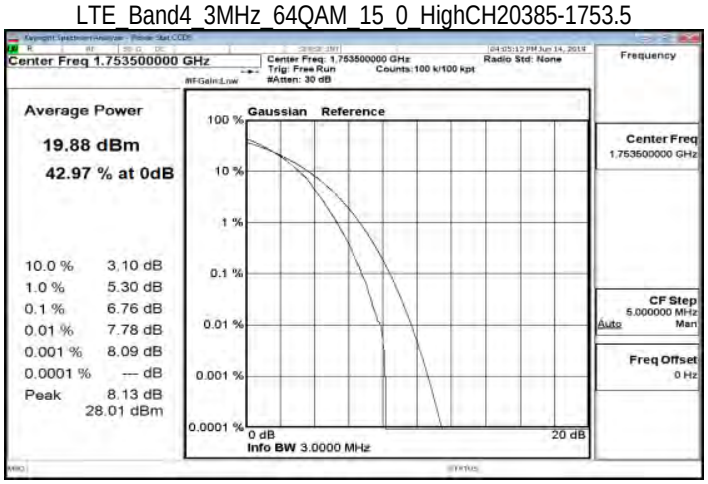
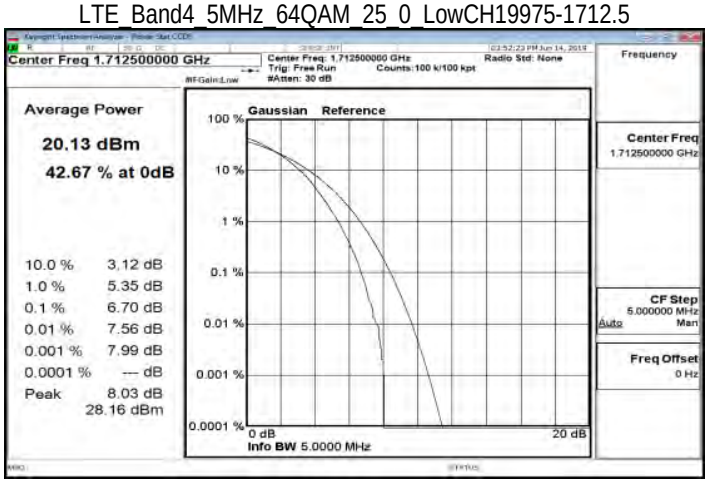
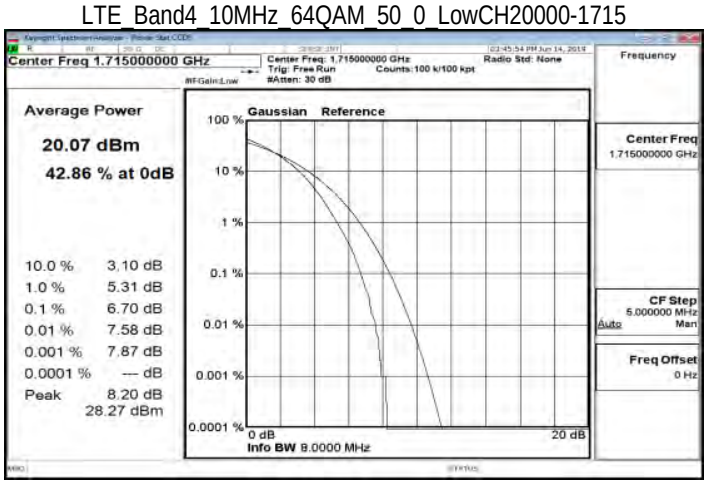


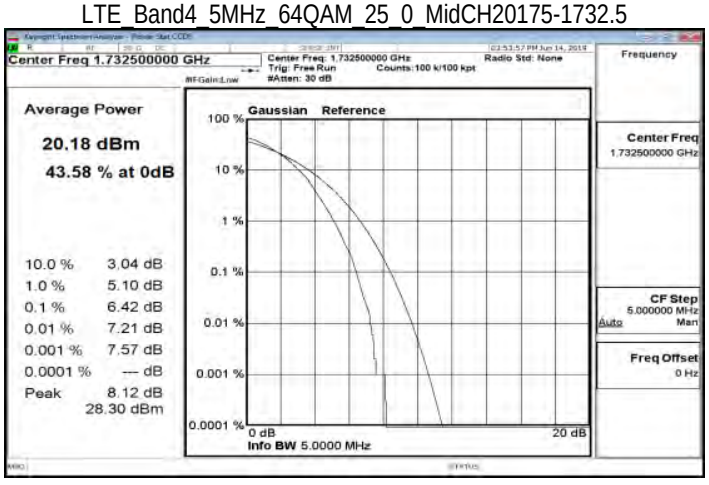
LTE_Band4_5MHz_64QAM_25_0_LowCH19975-1712.5



LTE_Band4_10MHz_64QAM_50_0_LowCH20000-1715



LTE_Band4_5MHz_64QAM_25_0_MidCH20175-1732.5



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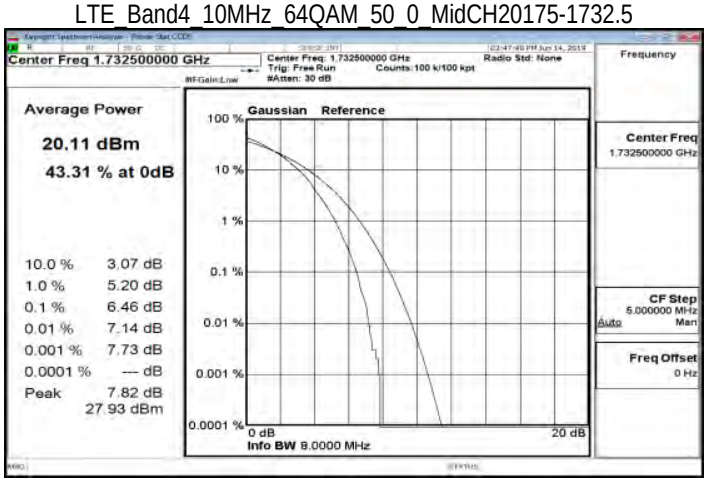

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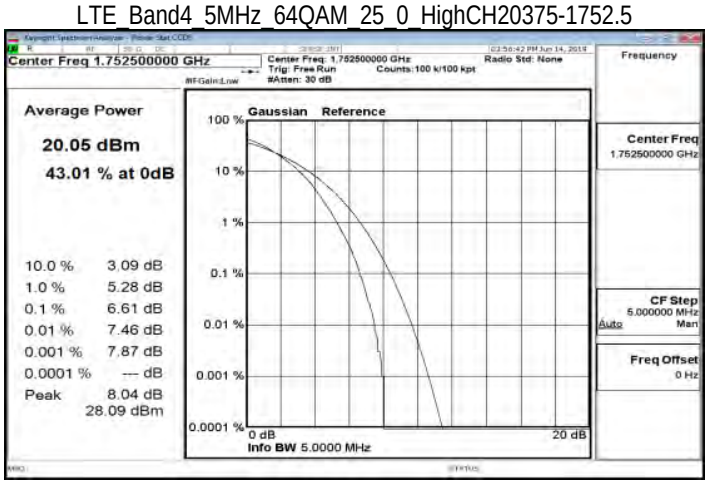

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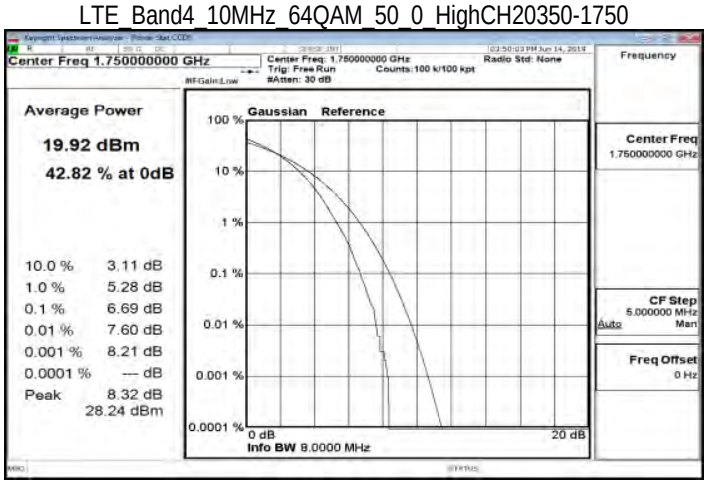

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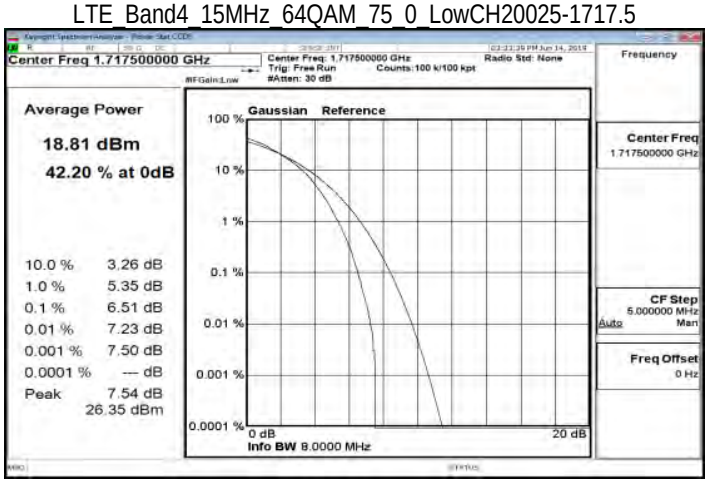
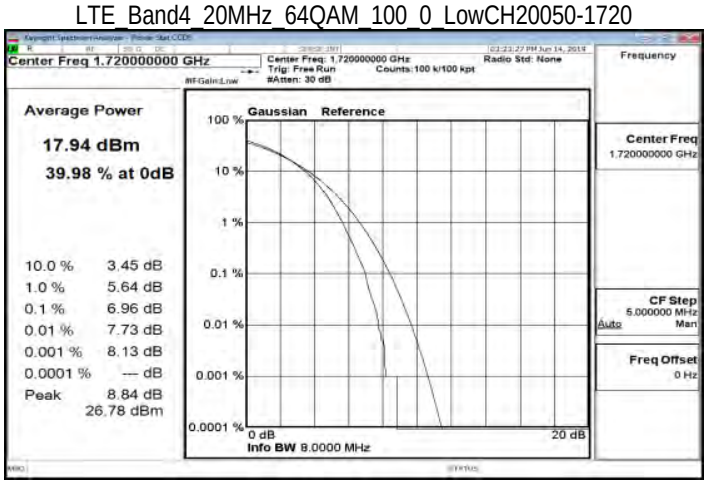


LTE_Band4_20MHz_64QAM_100_0_LowCH20050-1720



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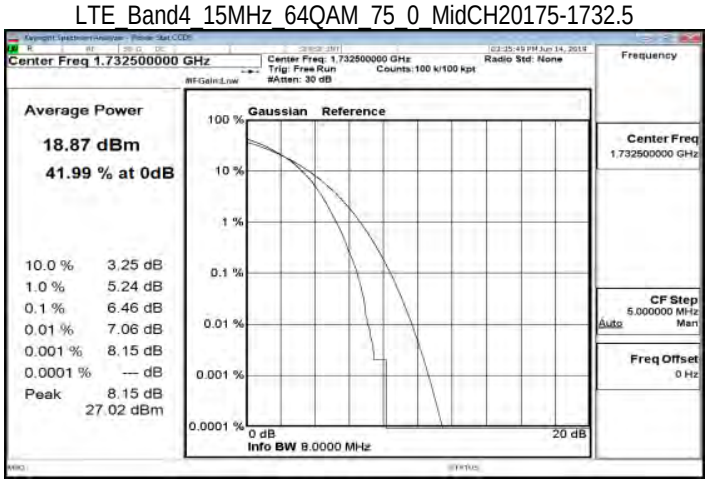

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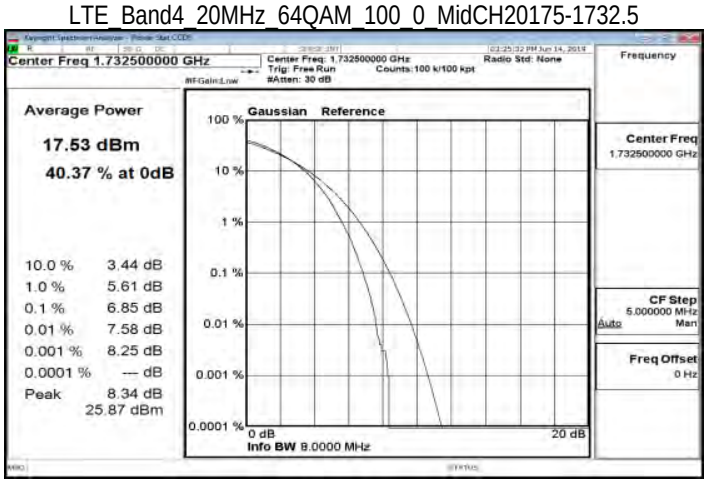

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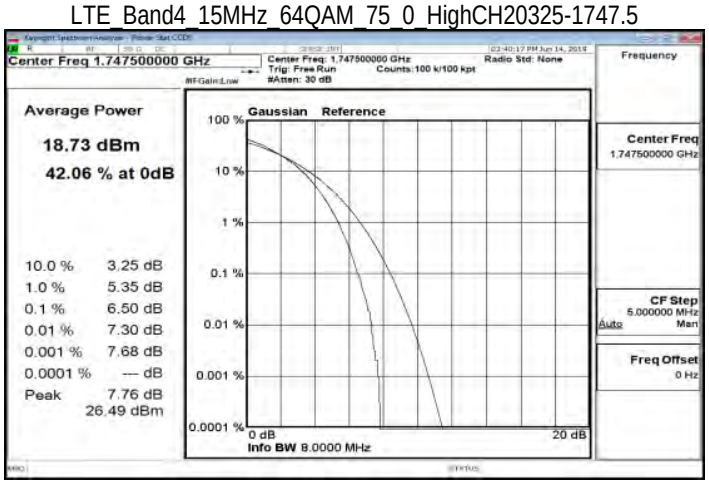

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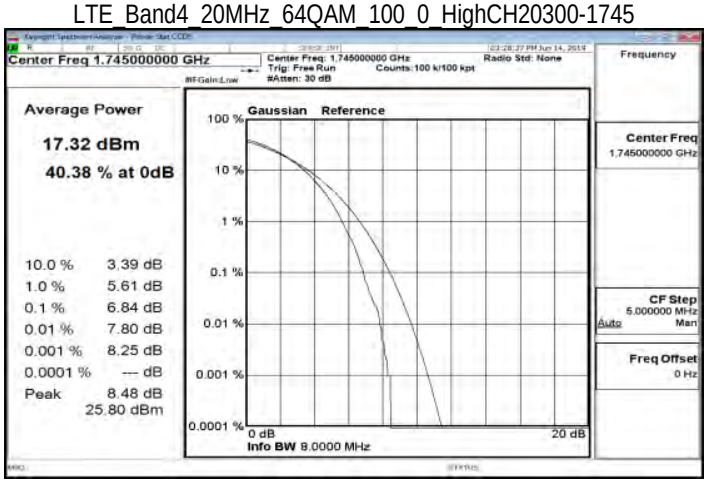

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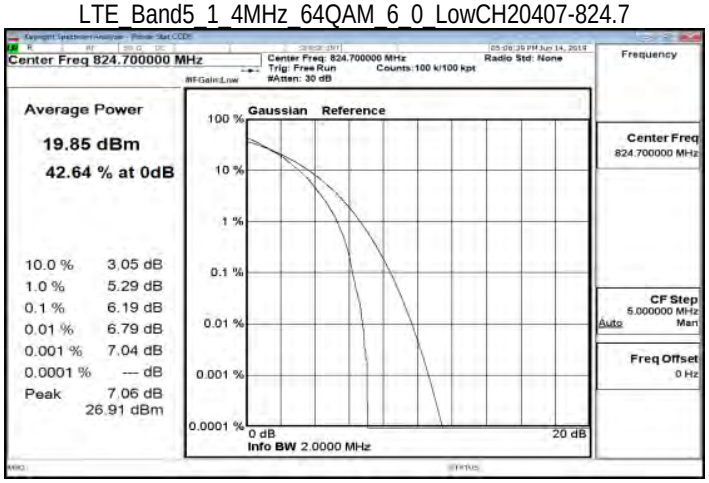

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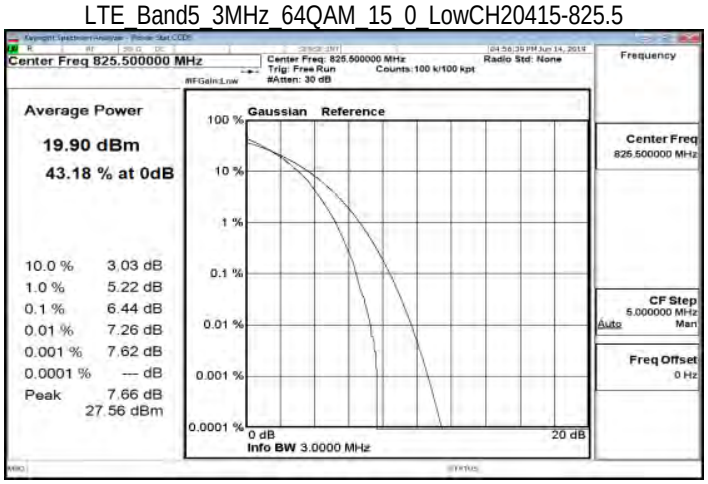
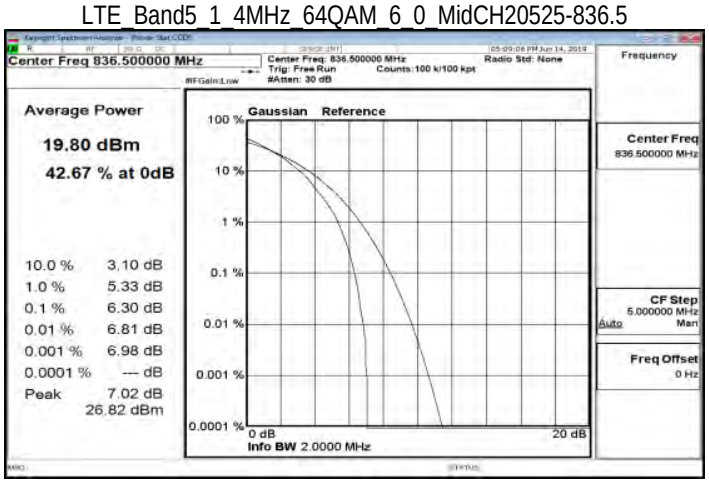


LTE_Band5_1_4MHz_64QAM_6_0_MidCH20525-836.5



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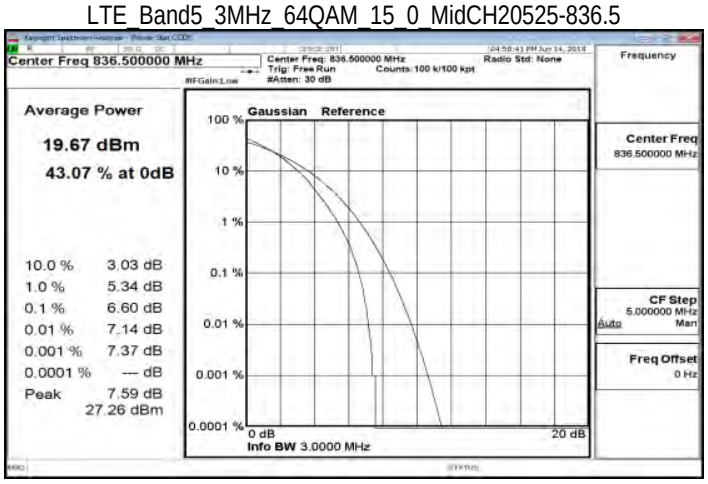

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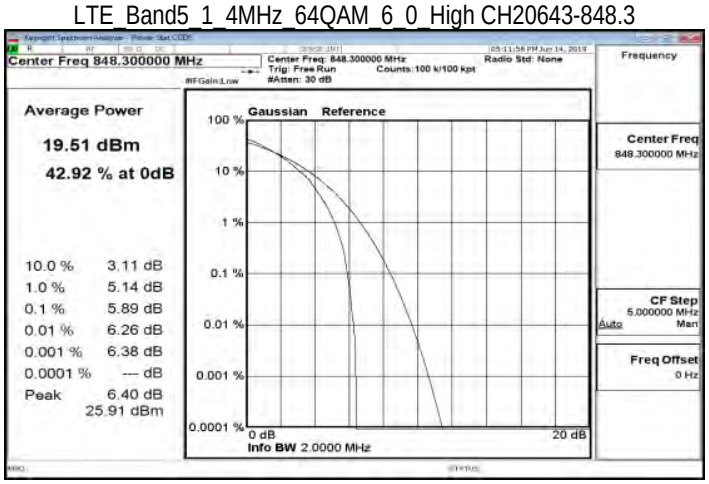

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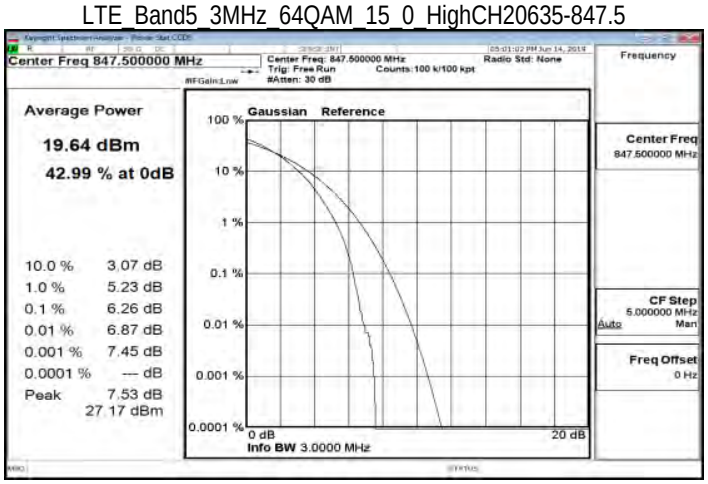

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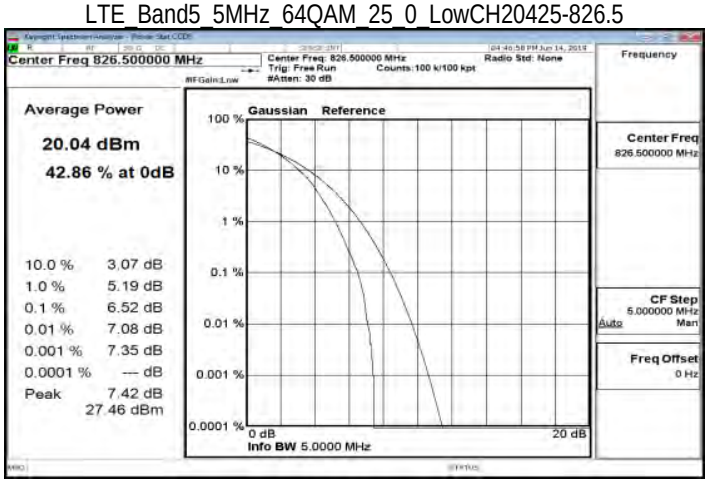

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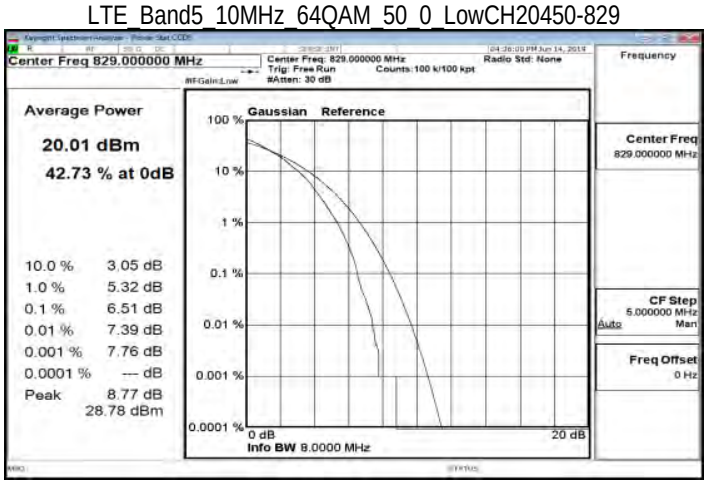

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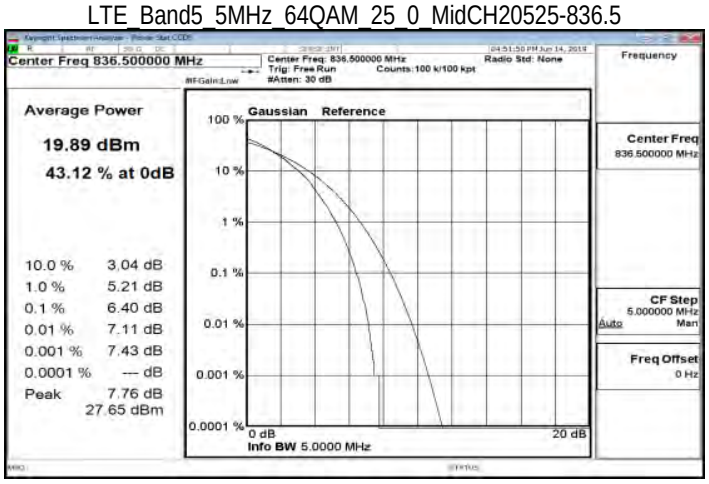

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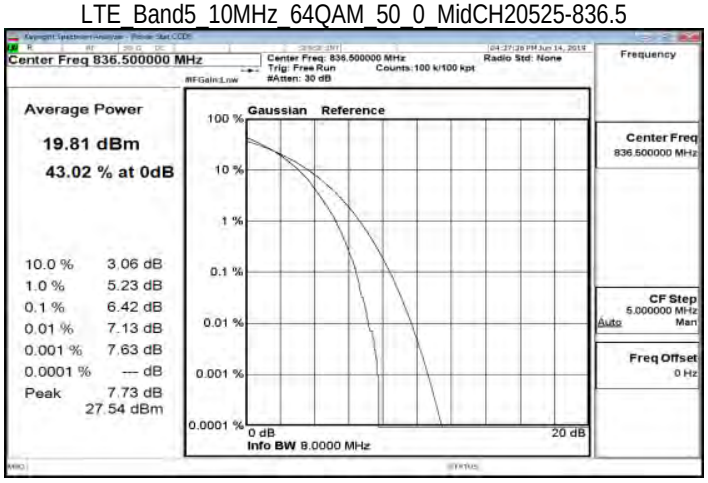

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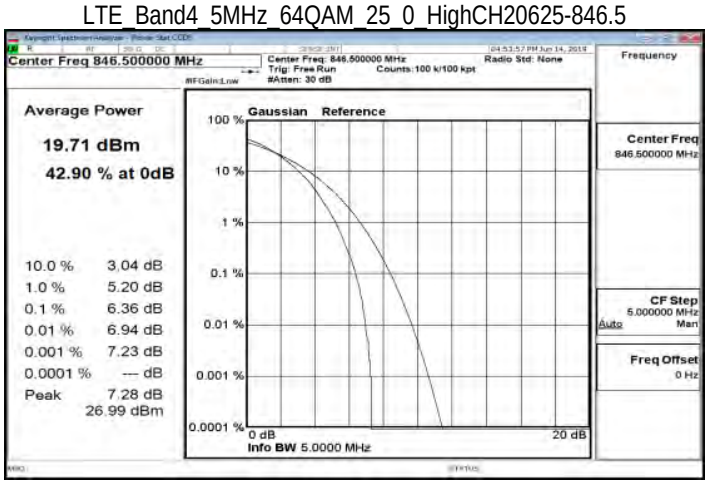

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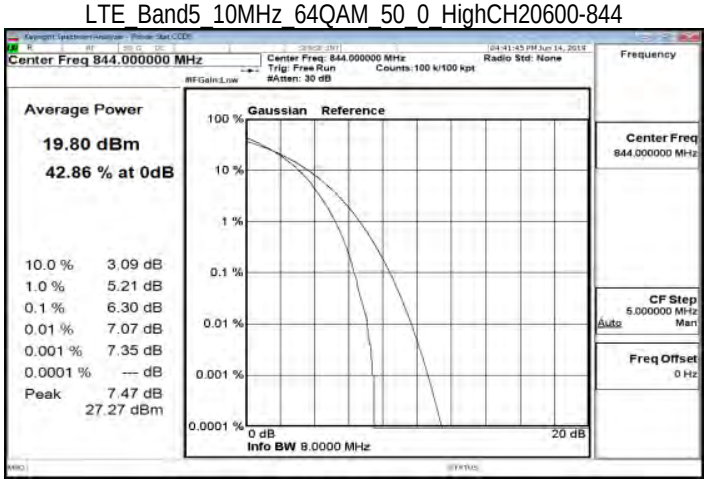

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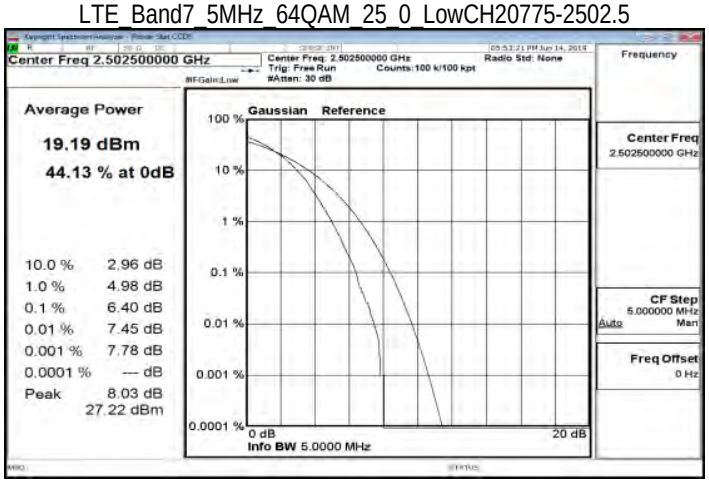

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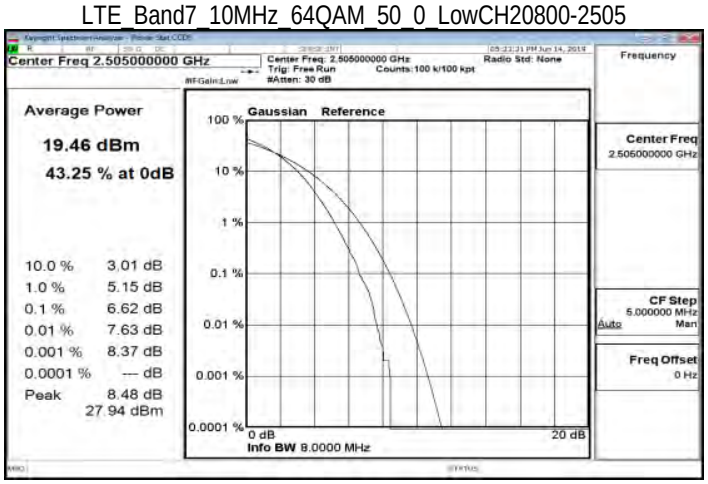

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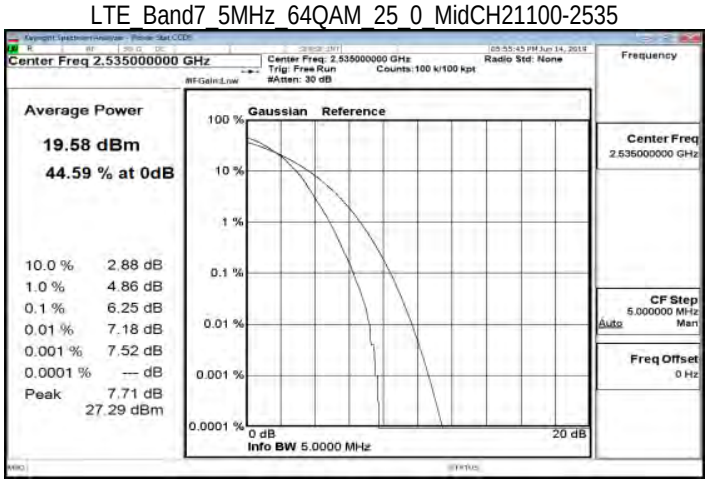

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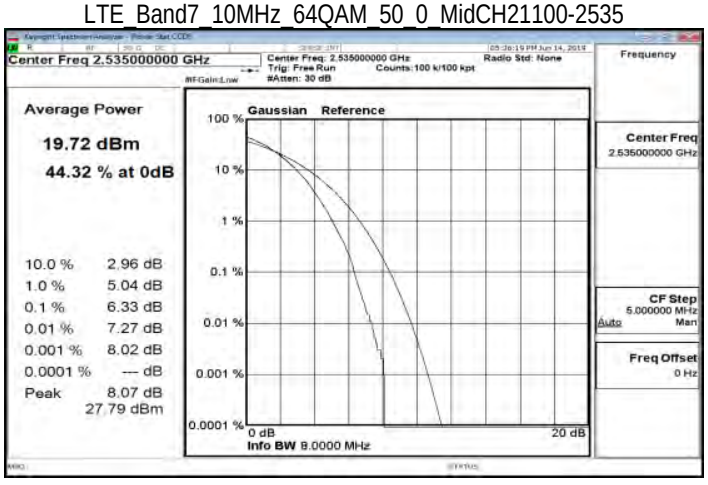

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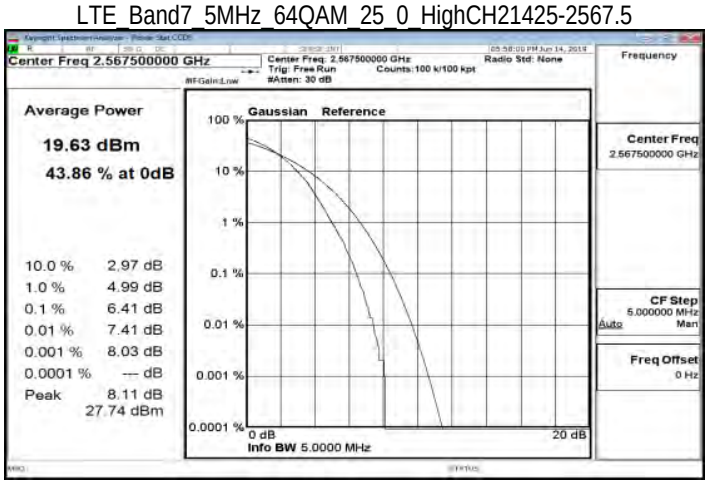

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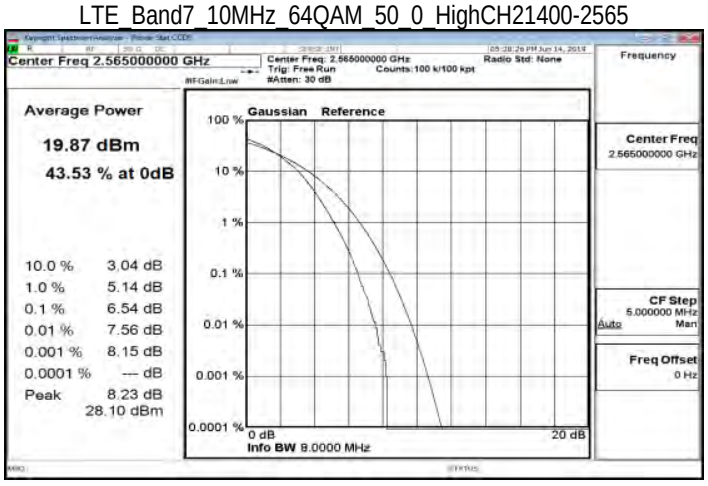

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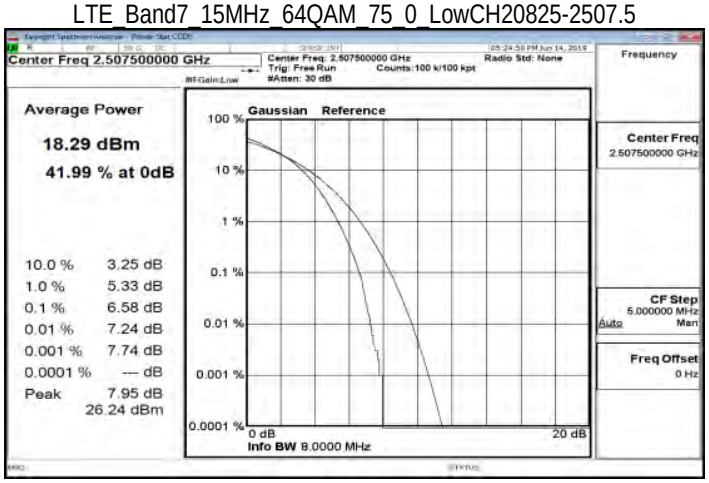

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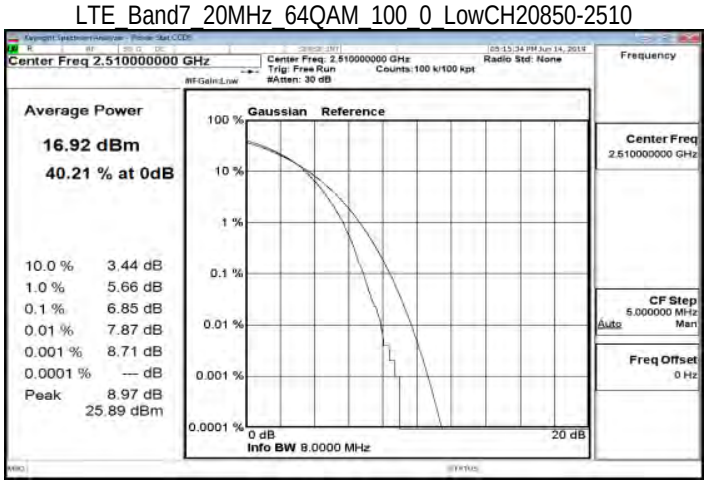

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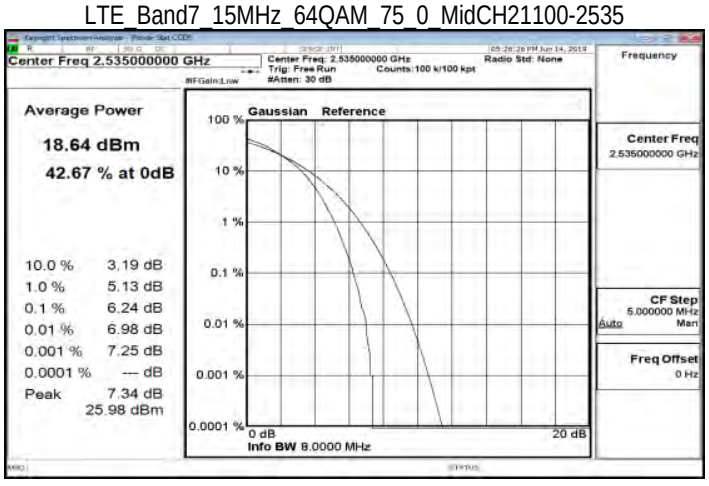

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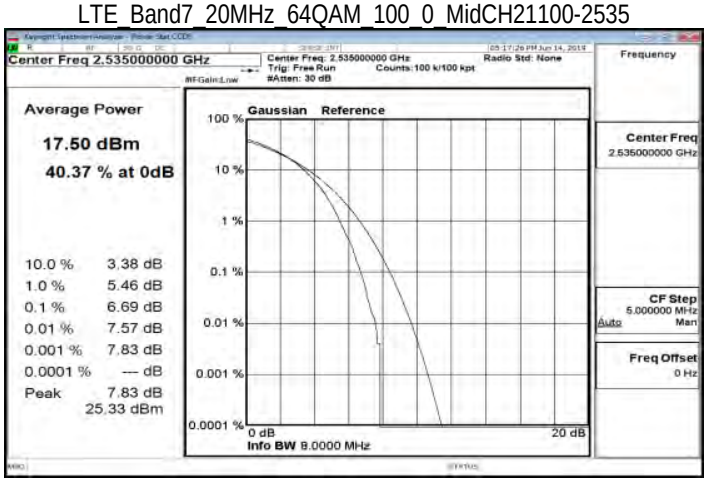

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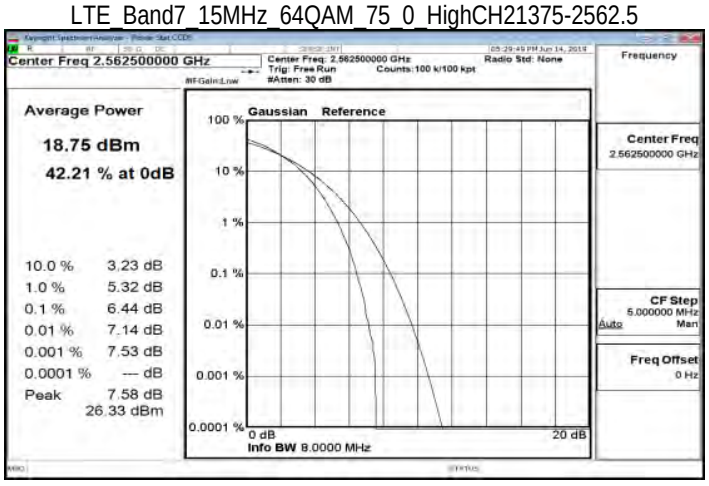

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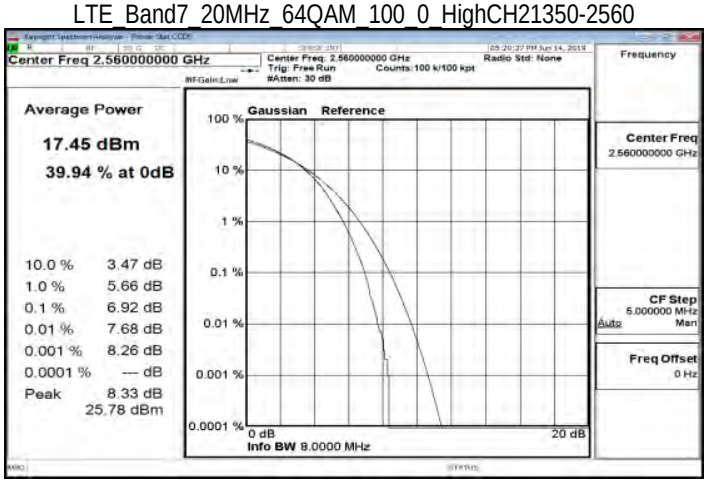

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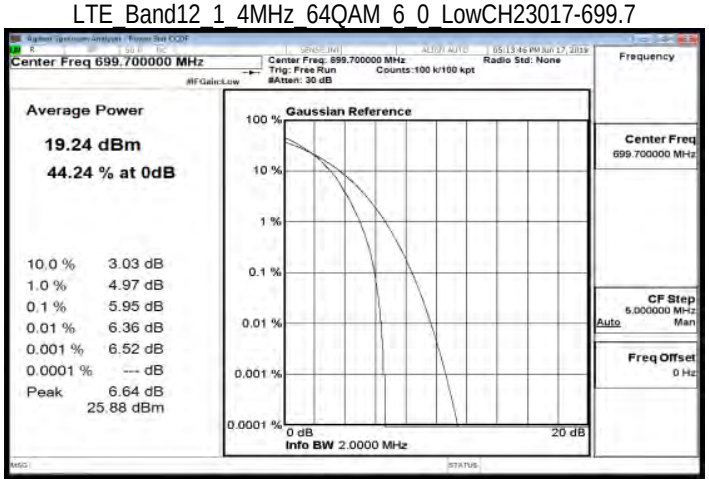

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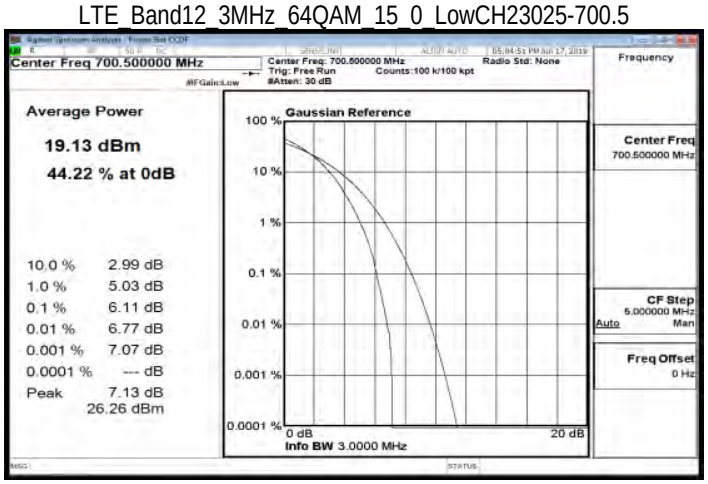

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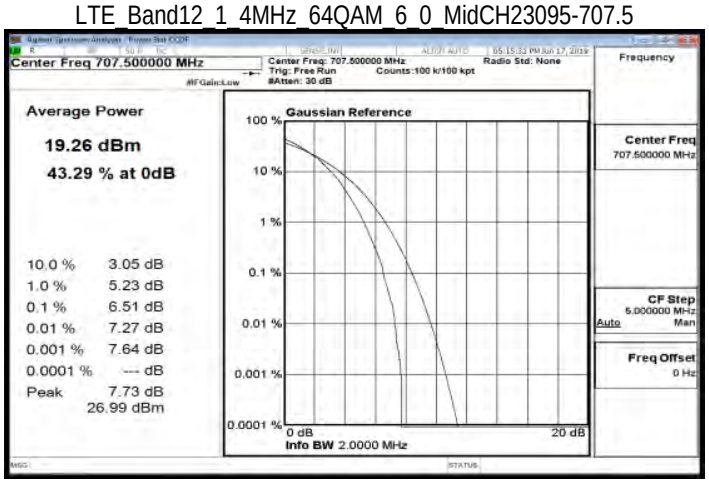

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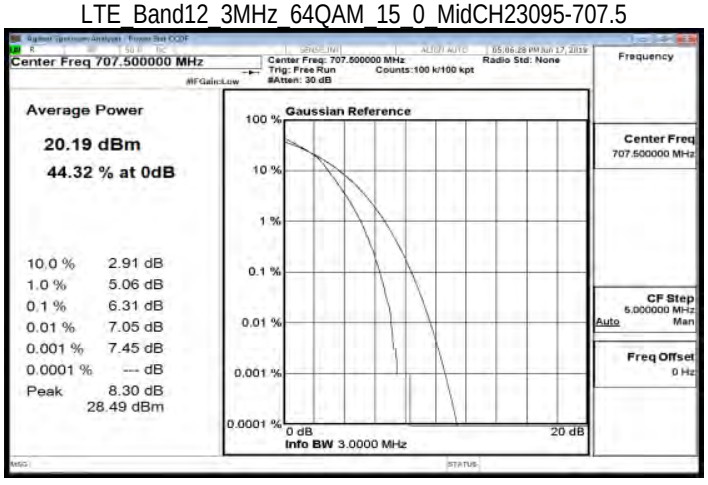

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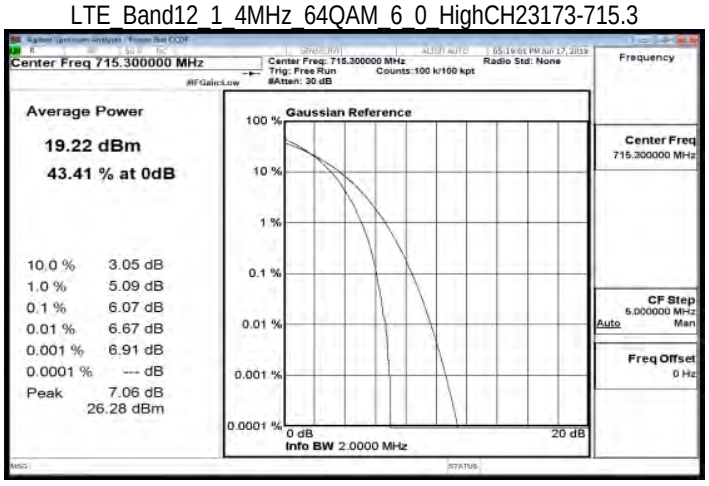

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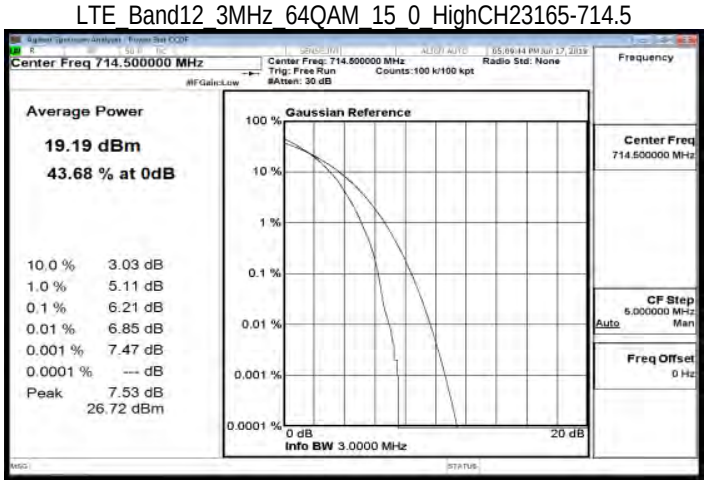

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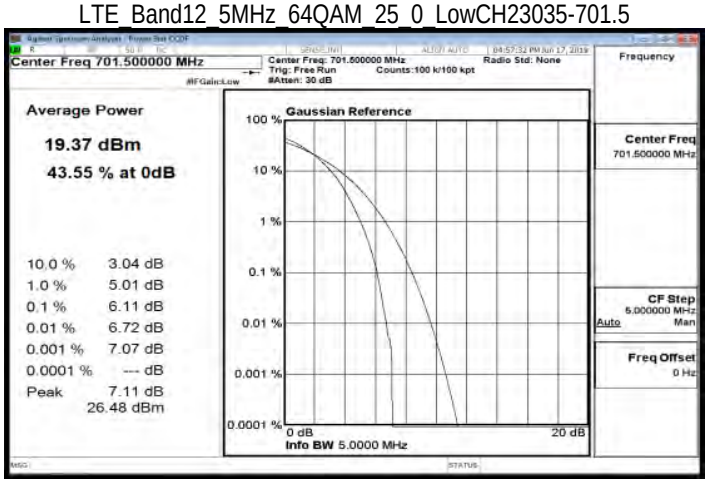

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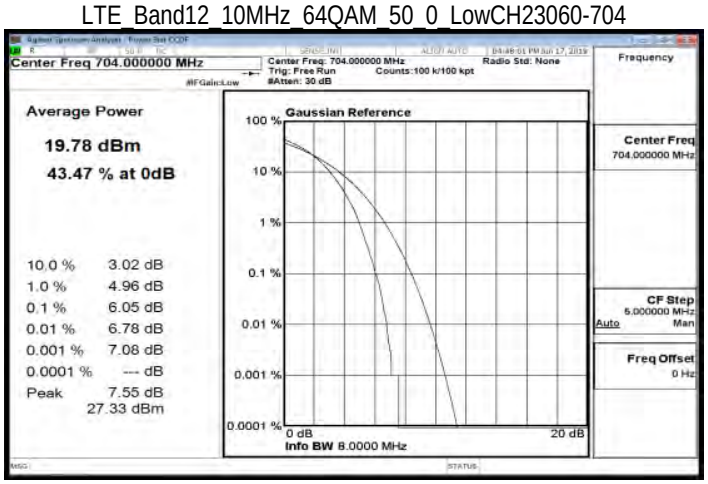

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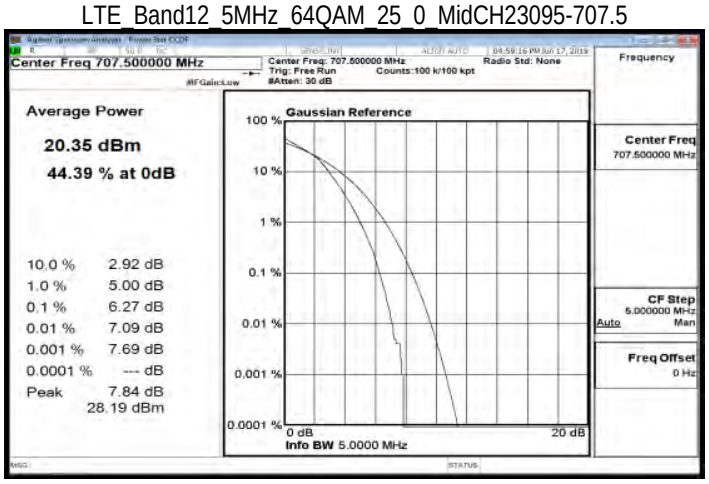
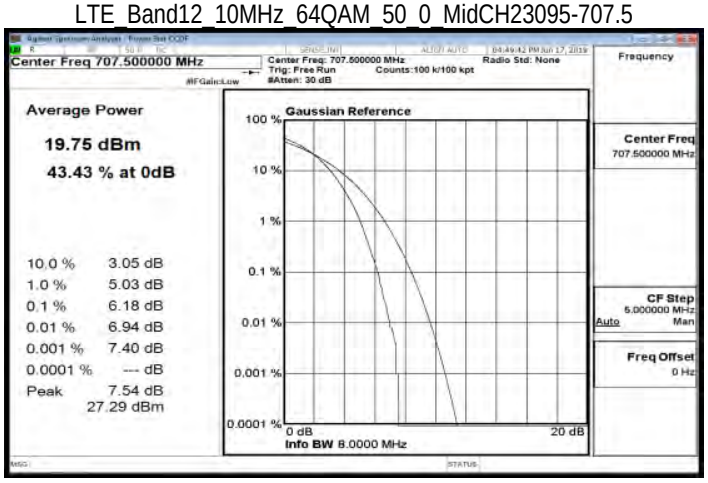


LTE_Band12_10MHz_64QAM_50_0_MidCH23095-707.5



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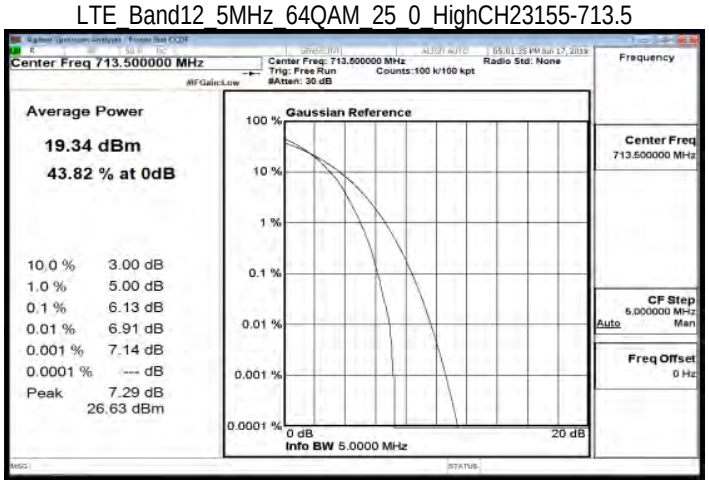

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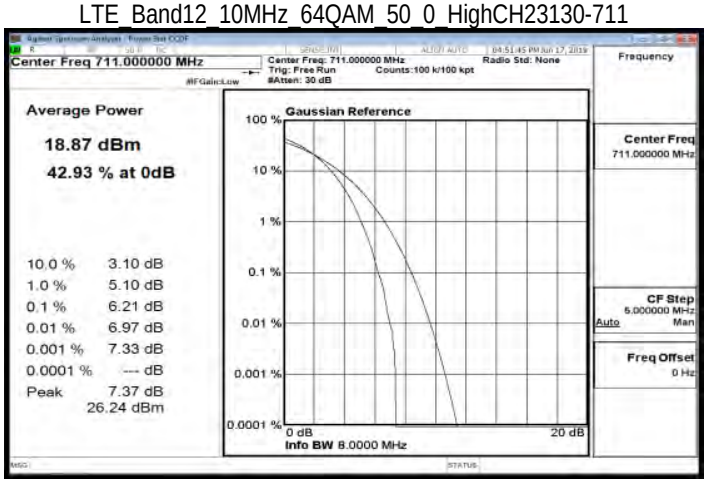

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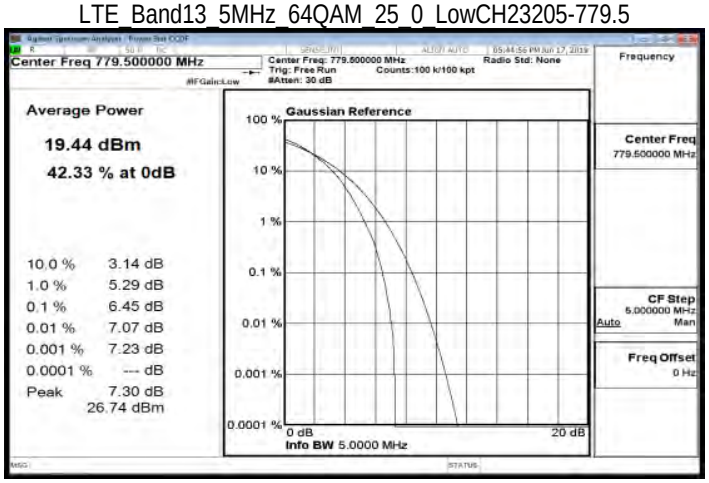

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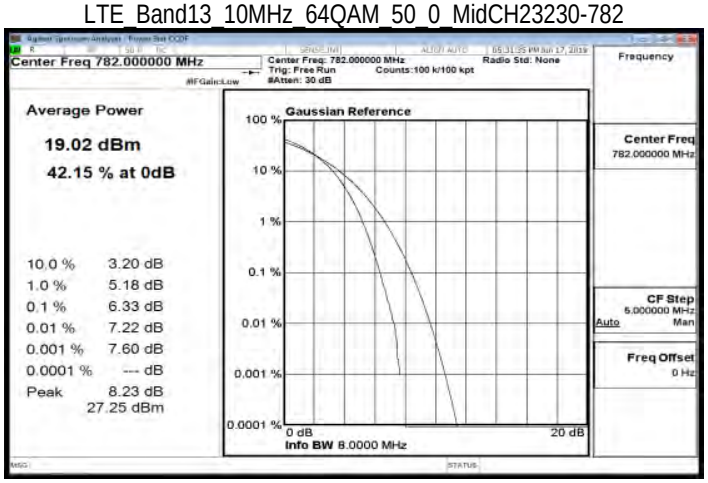

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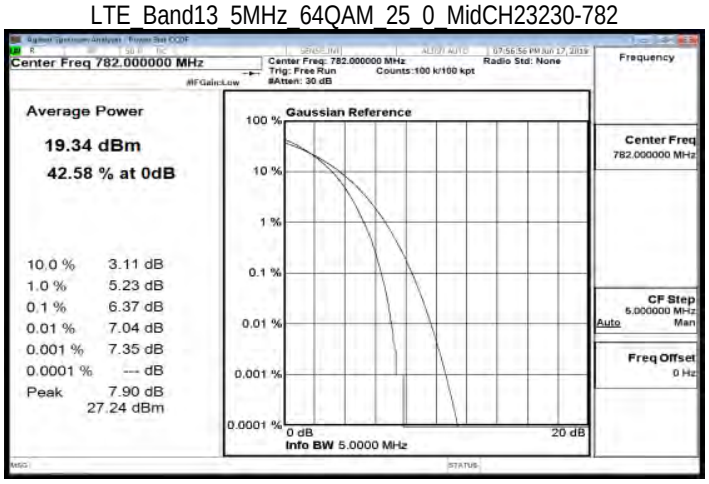

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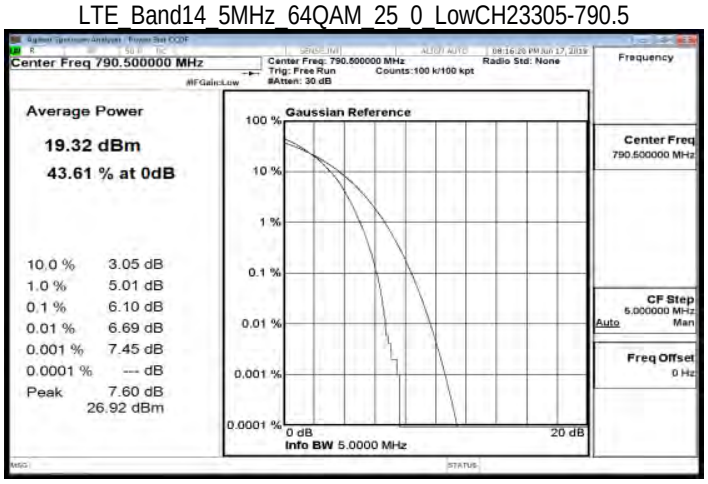

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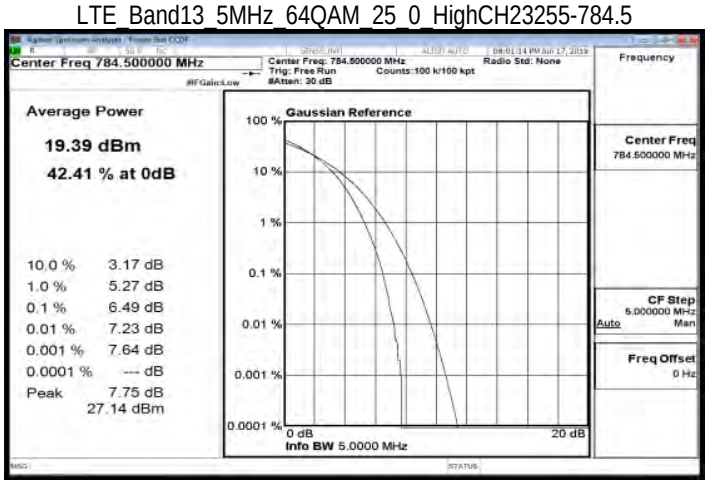

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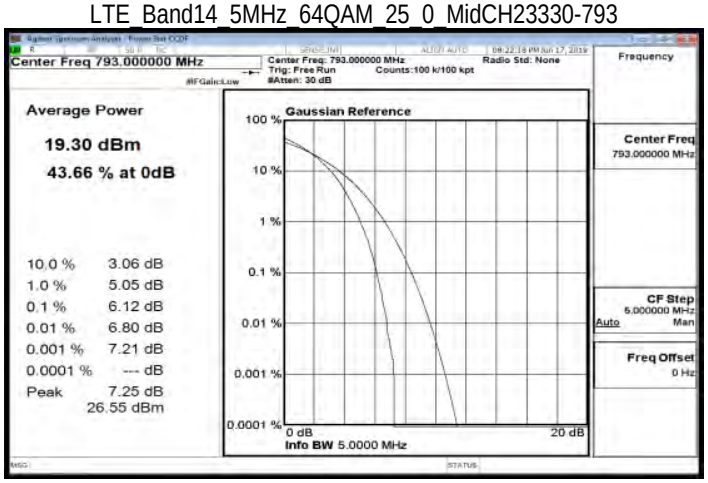

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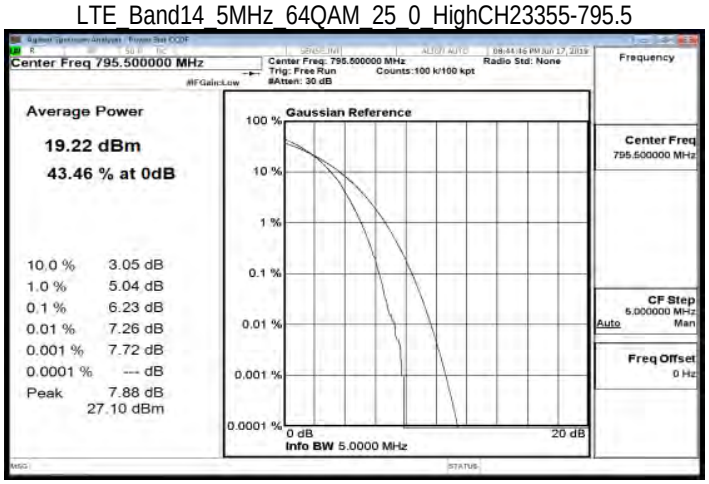

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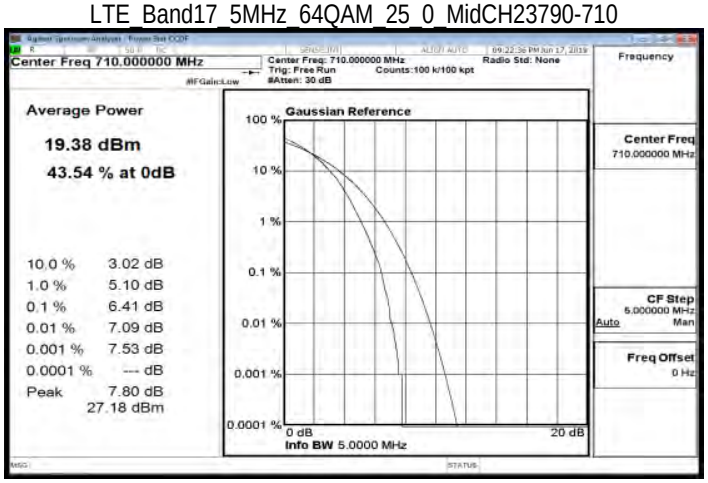
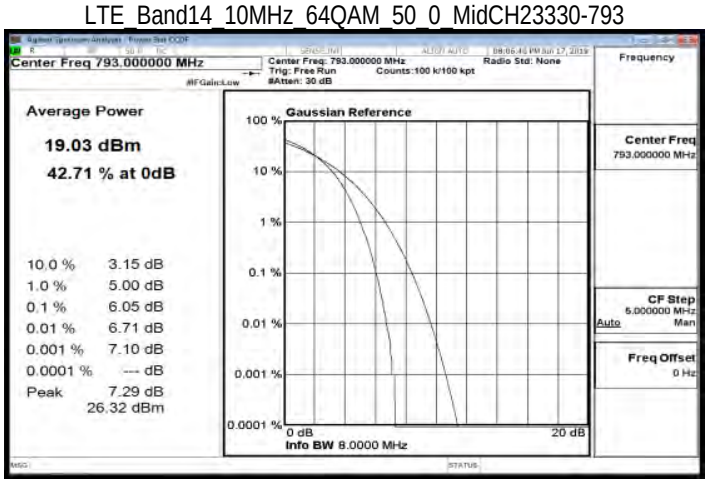


LTE_Band14_10MHz_64QAM_50_0_MidCH23330-793



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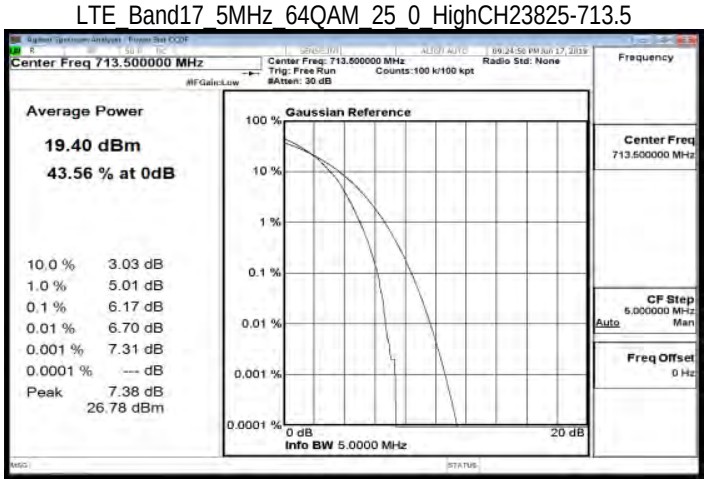

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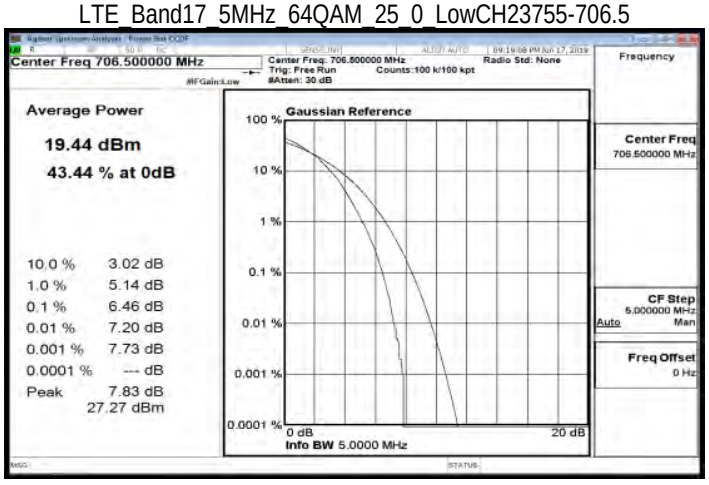

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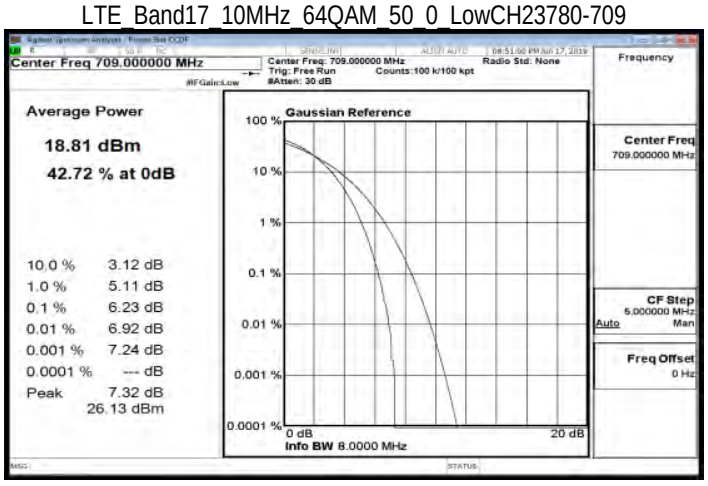

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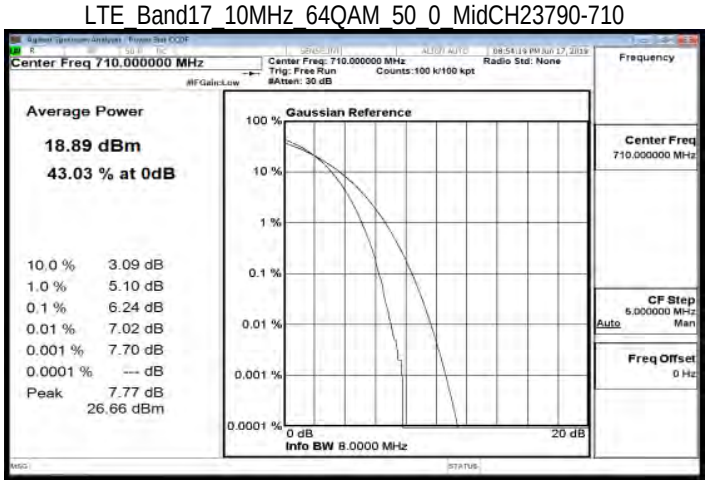

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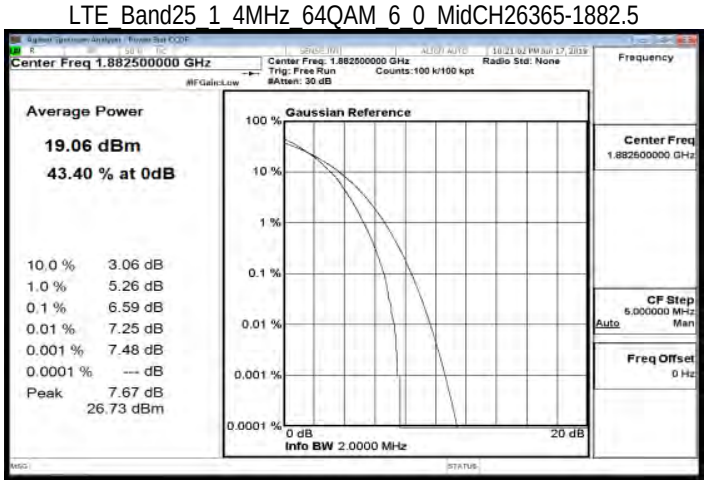
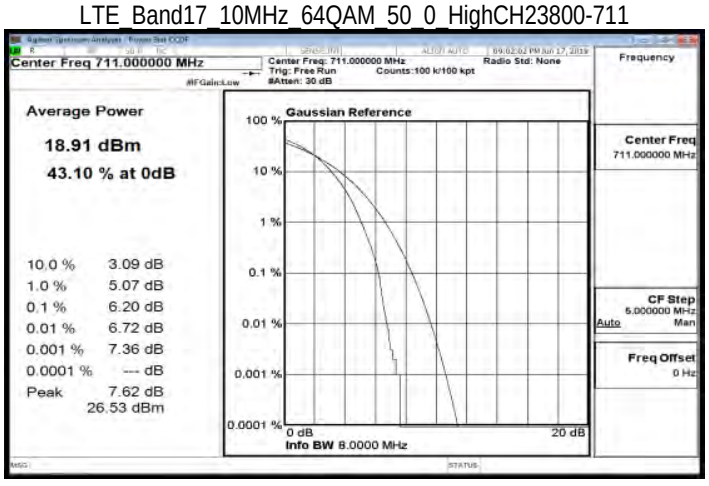


LTE_Band17_10MHz_64QAM_50_0_HighCH23800-711



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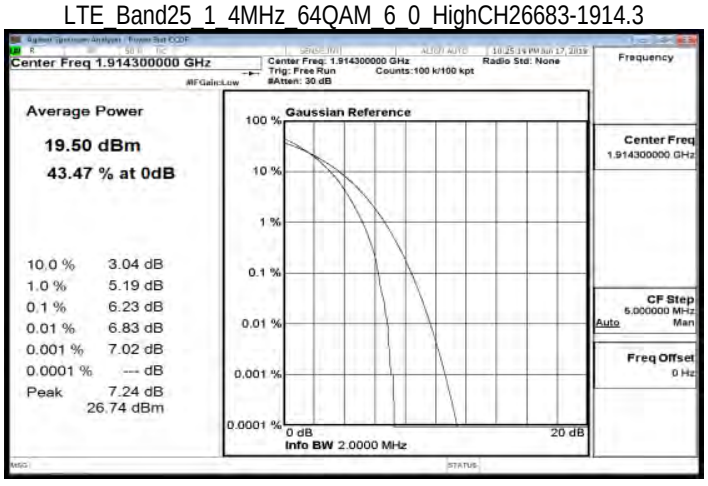

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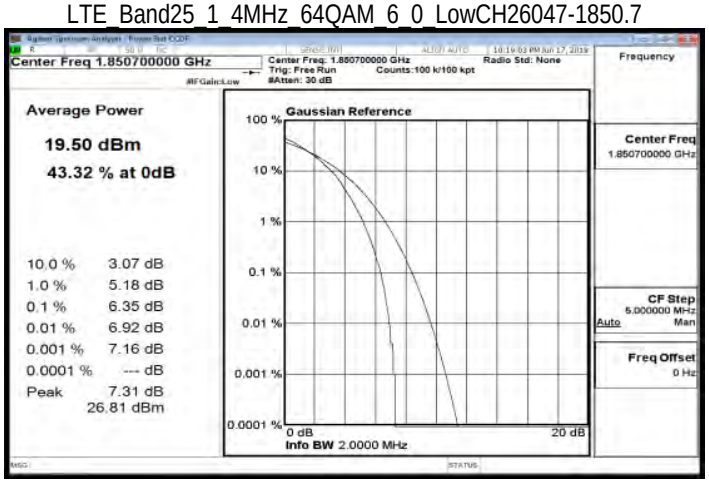
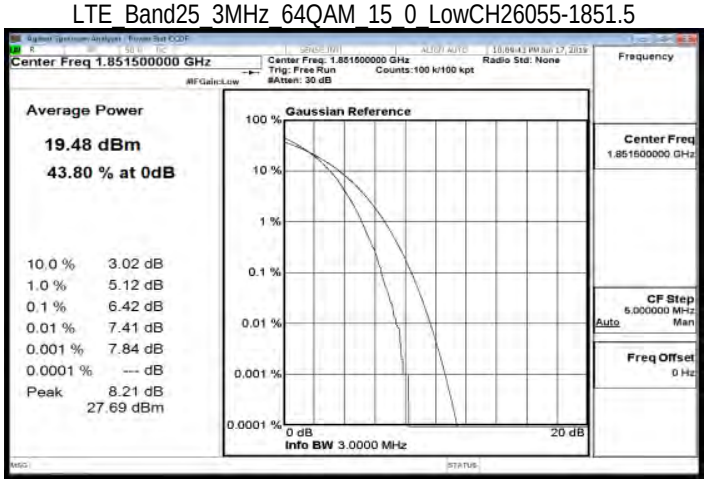


LTE_Band25_3MHz_64QAM_15_0_LowCH26055-1851.5



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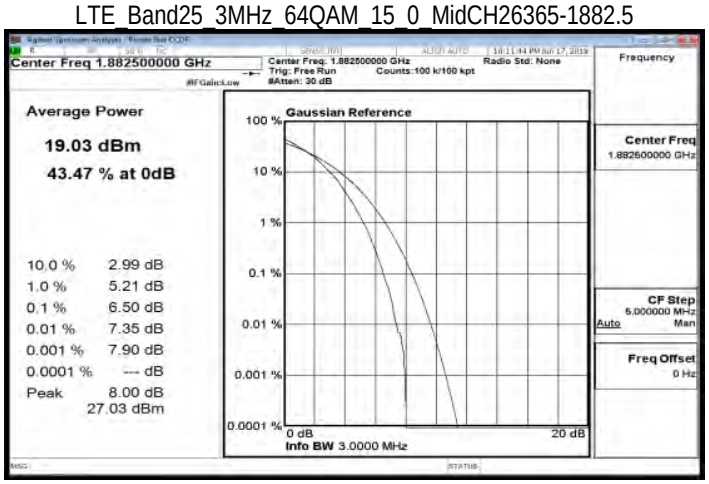

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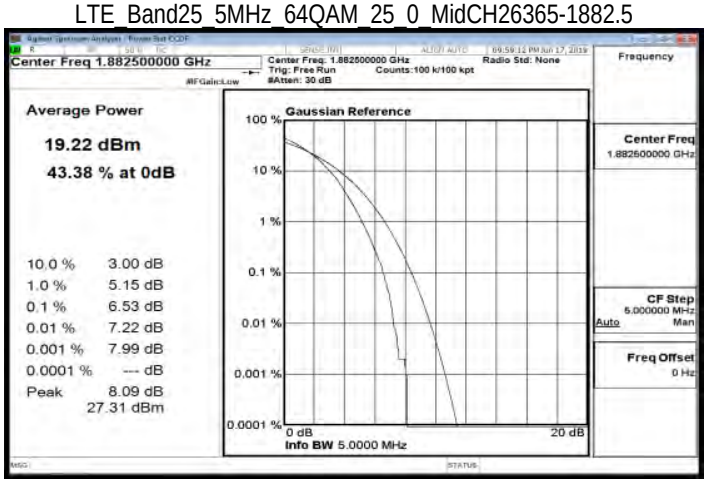

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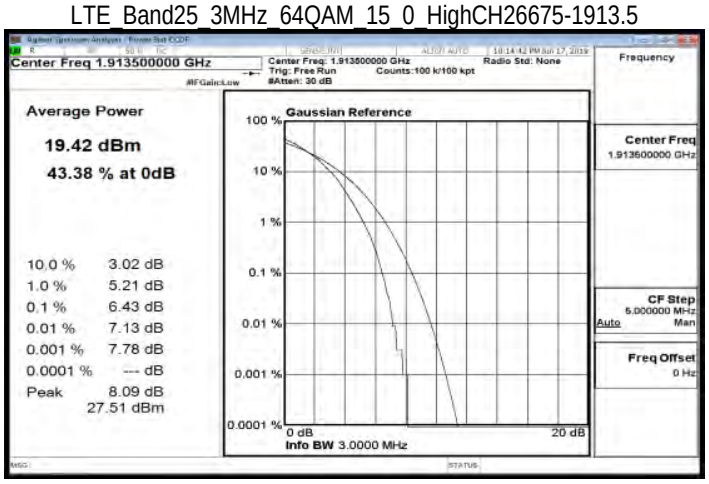

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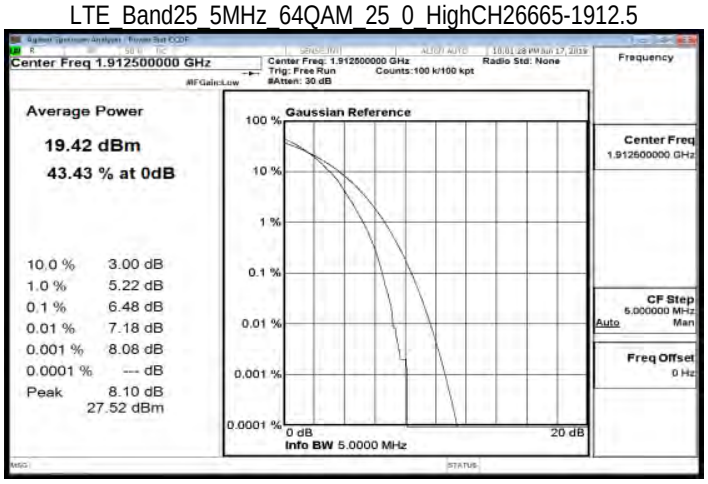

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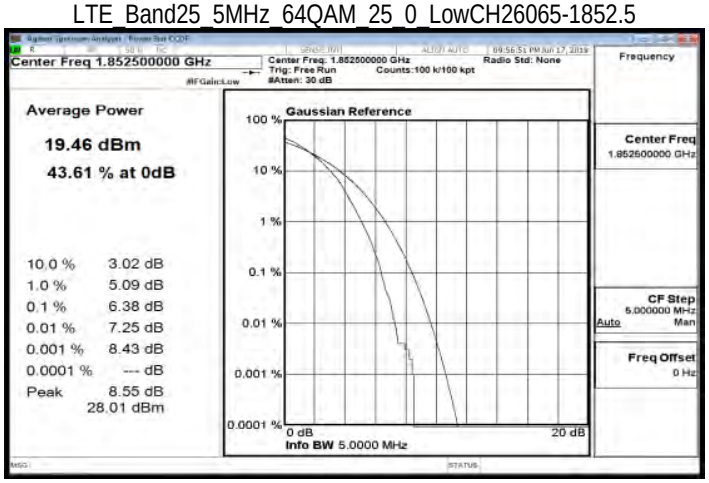

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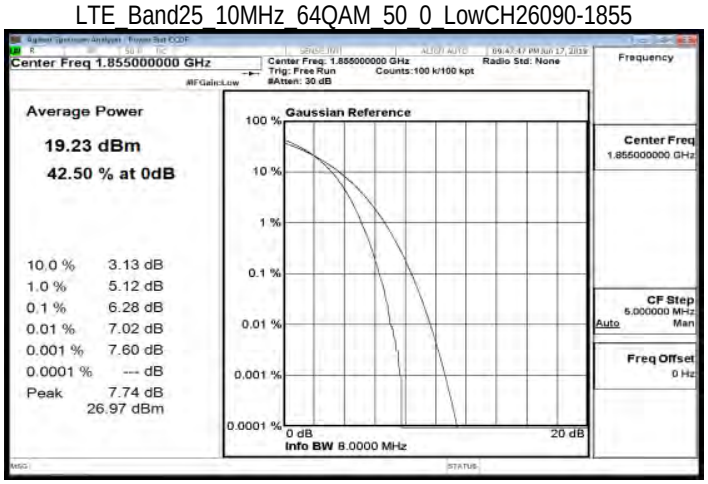

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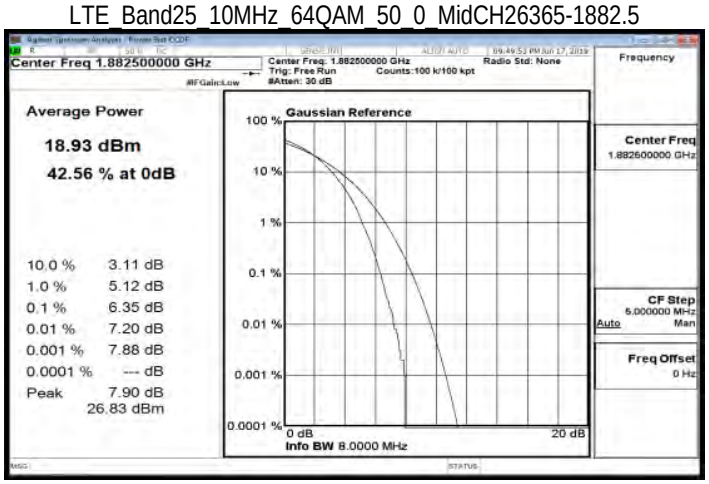

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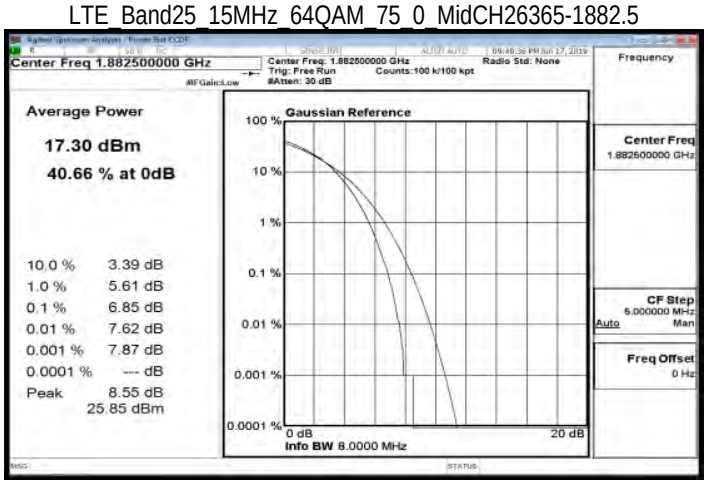

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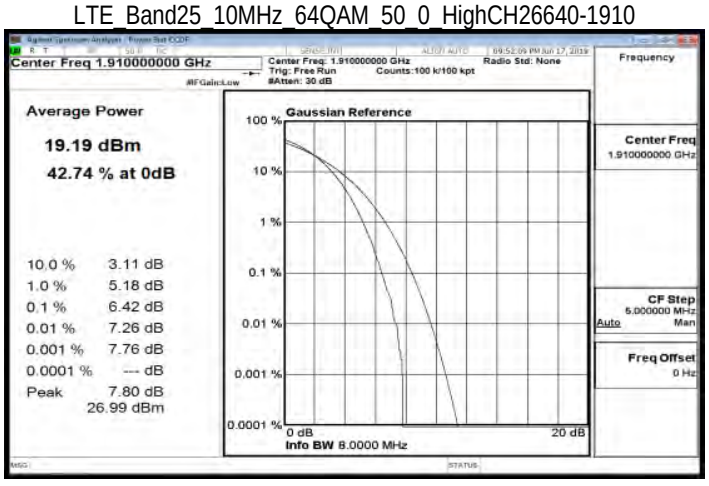

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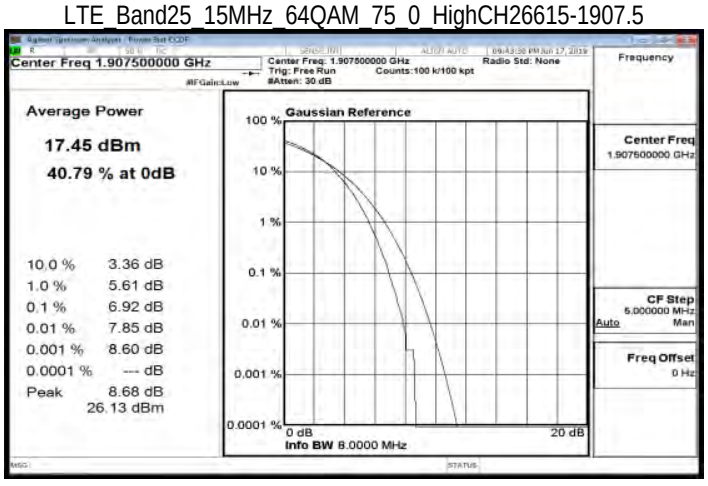

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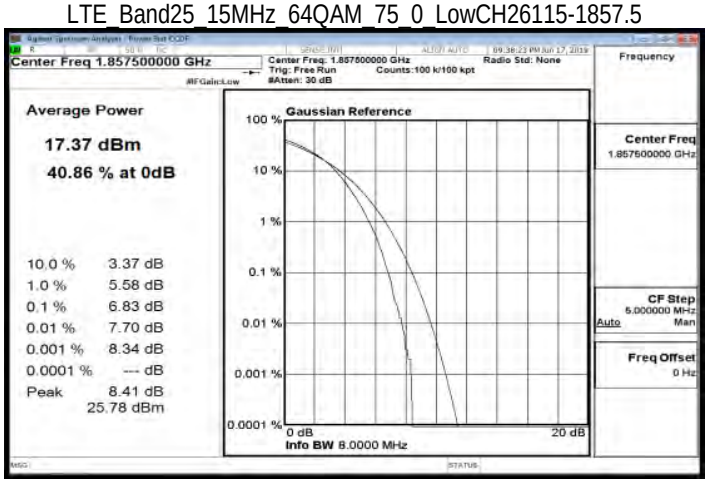

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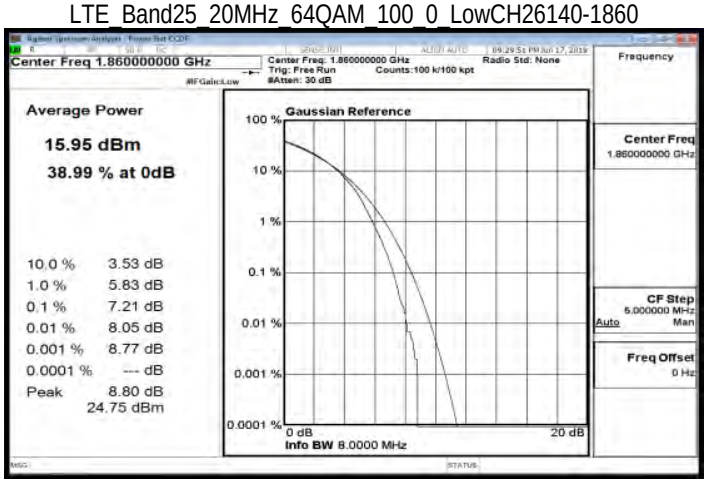

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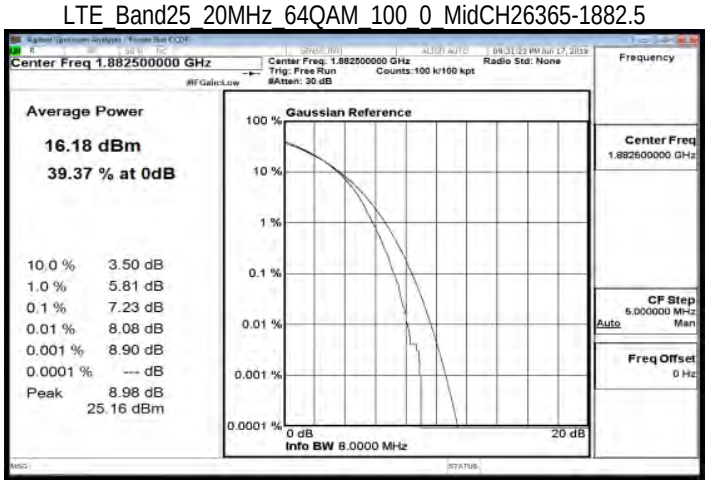
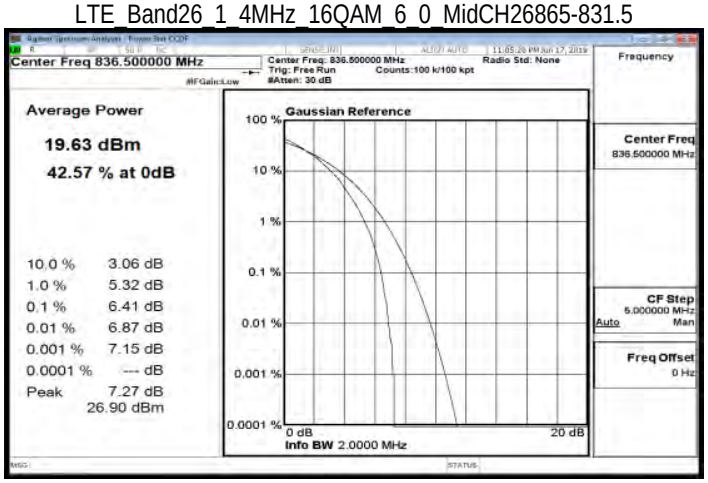


LTE_Band26_1_4MHz_16QAM_6_0_MidCH26865-831.5



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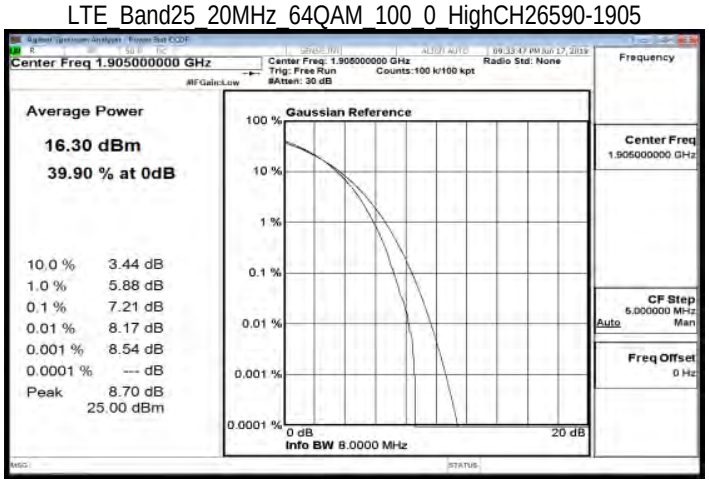

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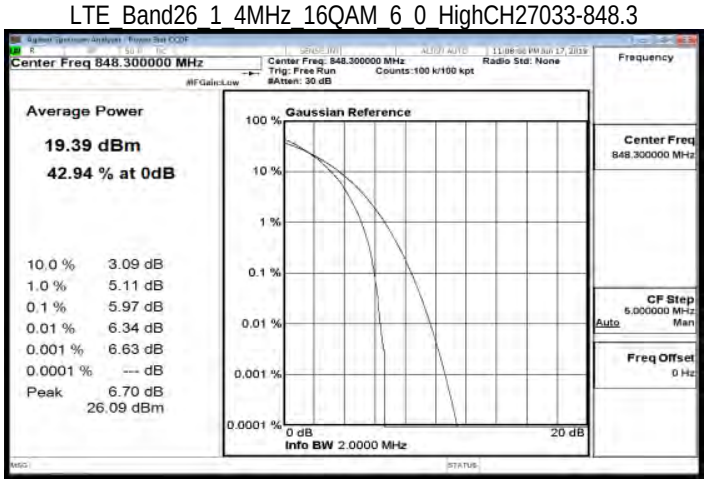

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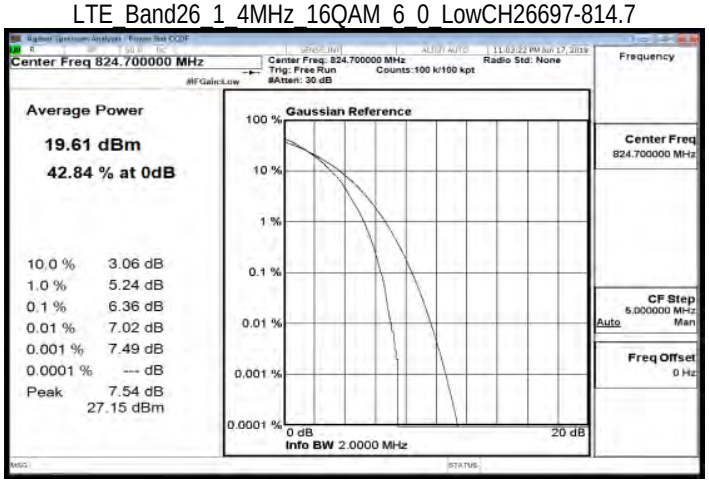

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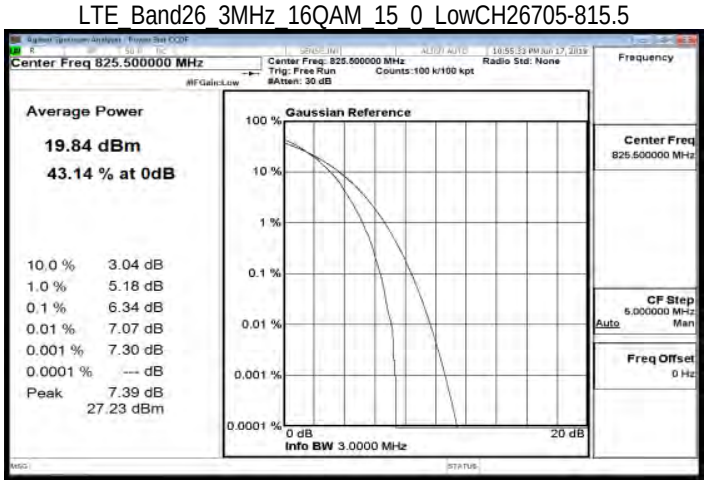
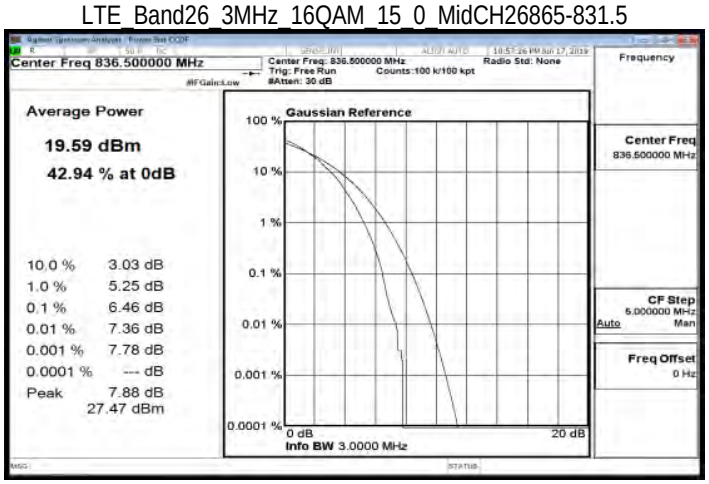


LTE_Band26_3MHz_16QAM_15_0_MidCH26865-831.5



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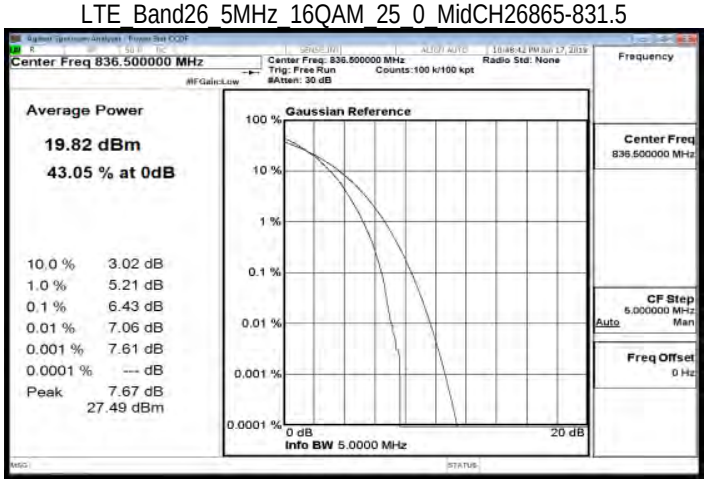

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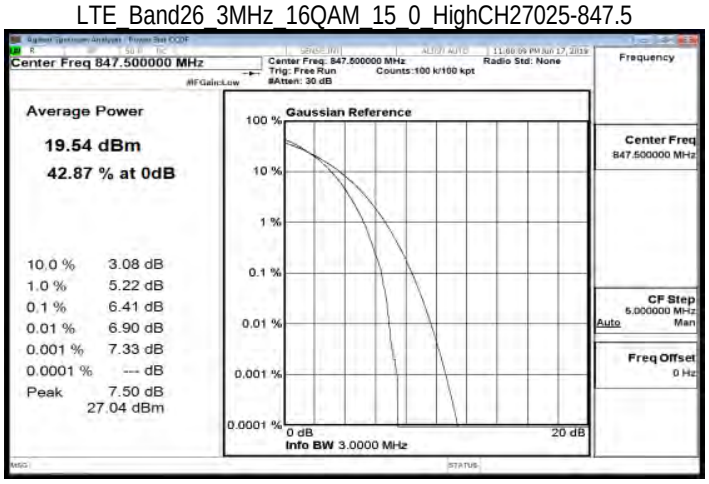

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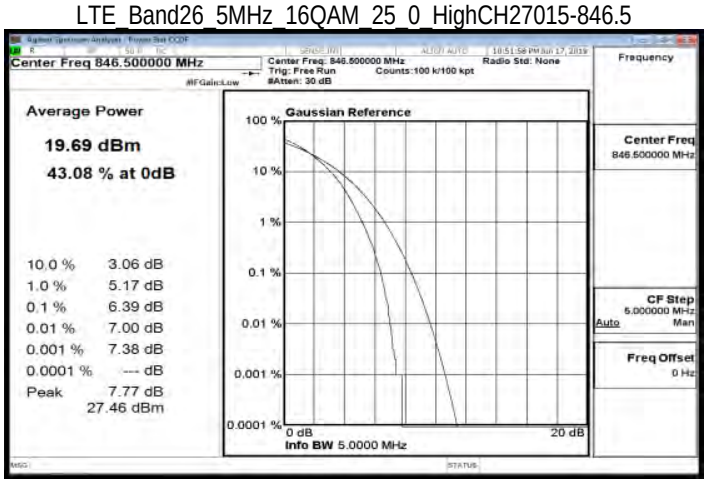

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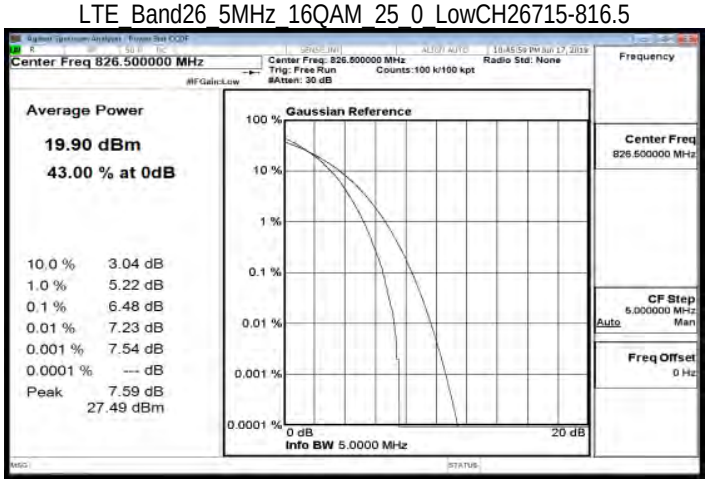

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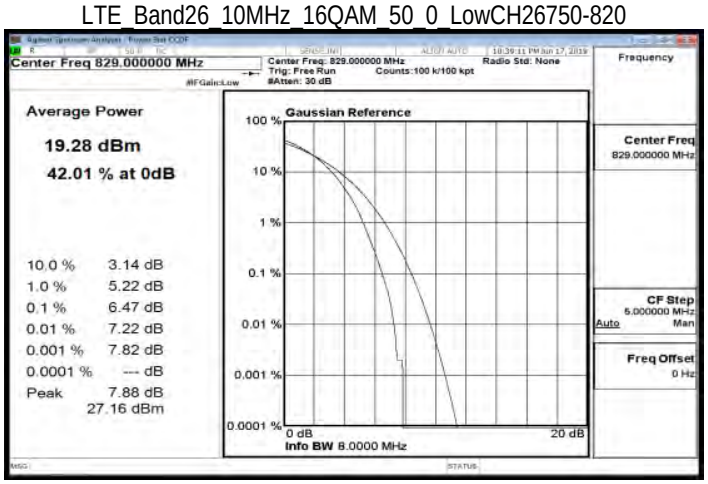

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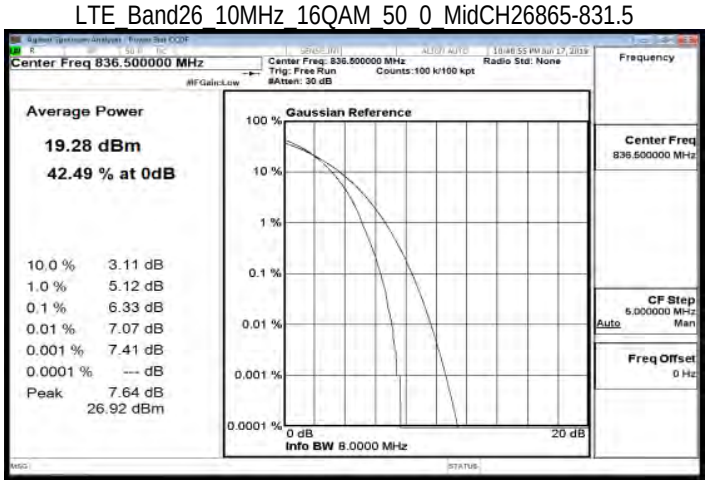

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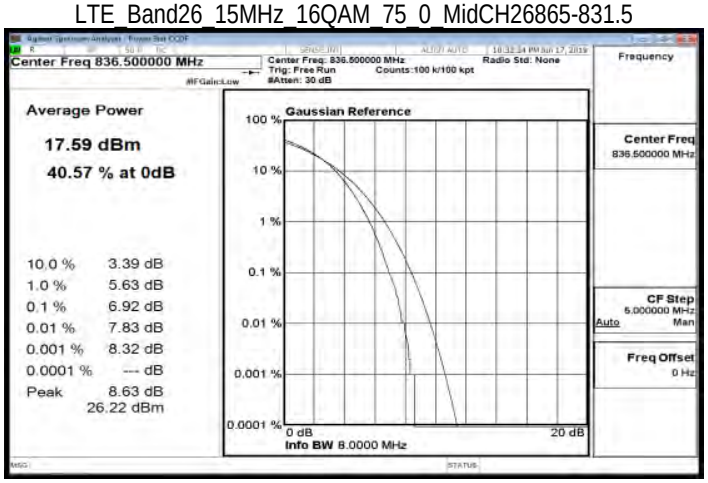

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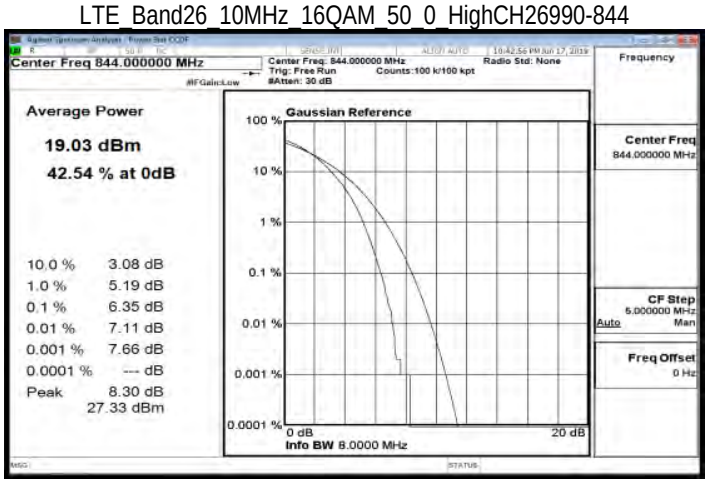

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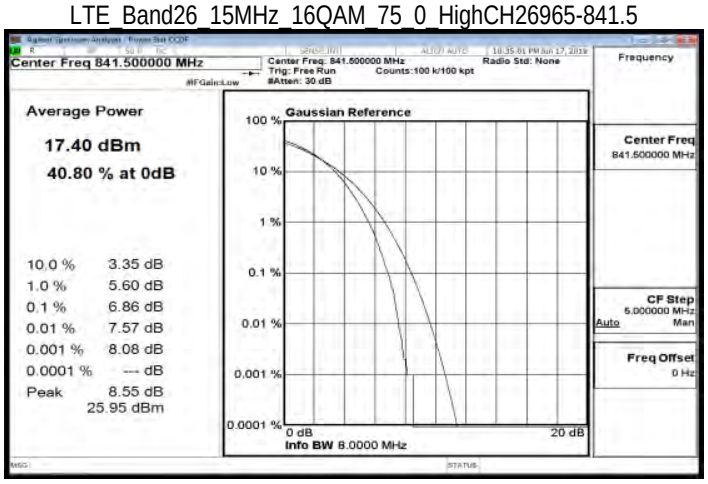

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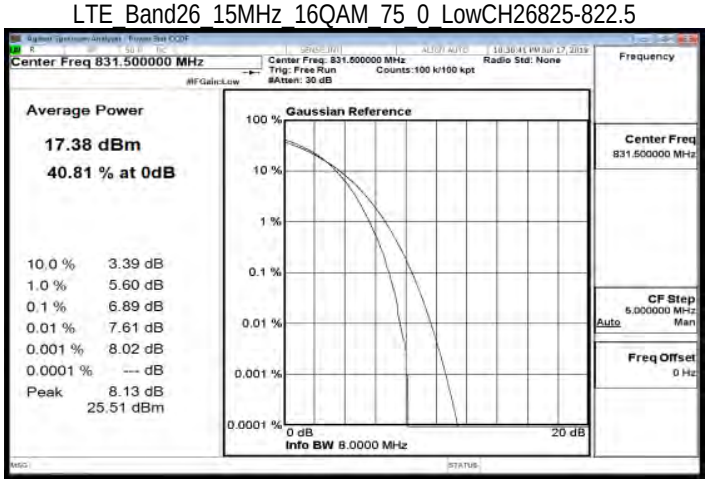
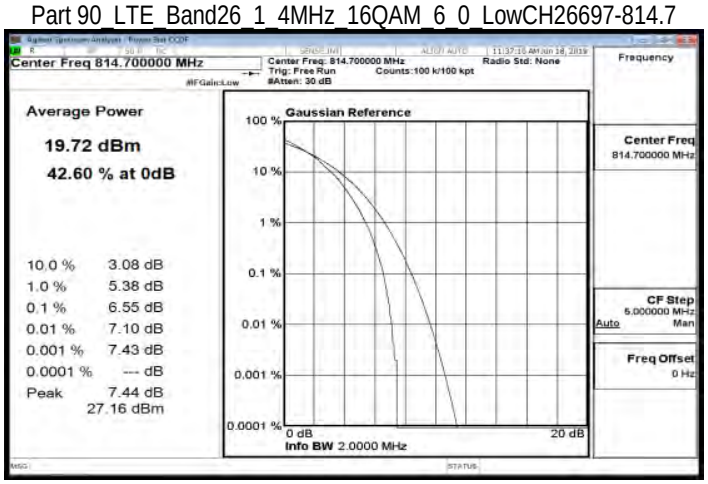


Part 90_LTE_Band26_1_4MHz_16QAM_6_0_LowCH26697-814.7



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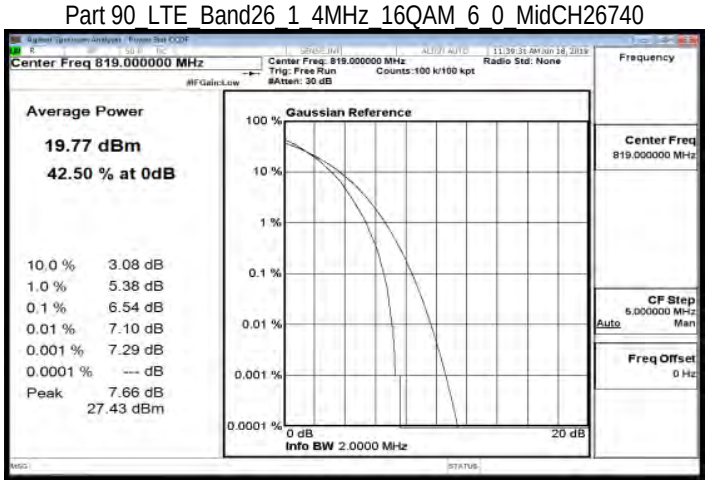

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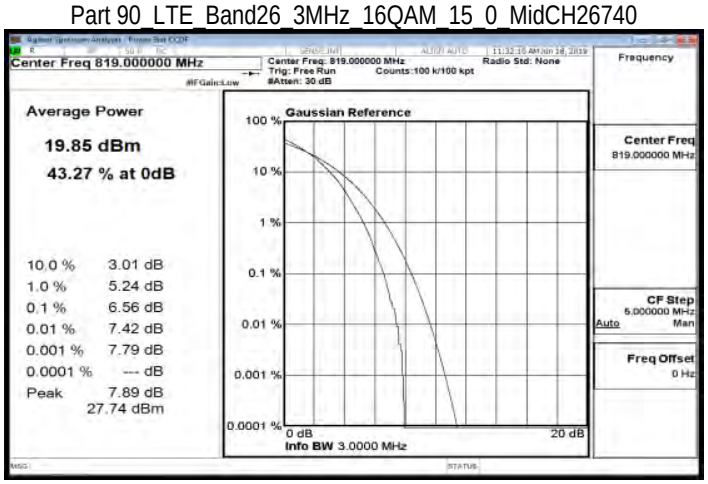

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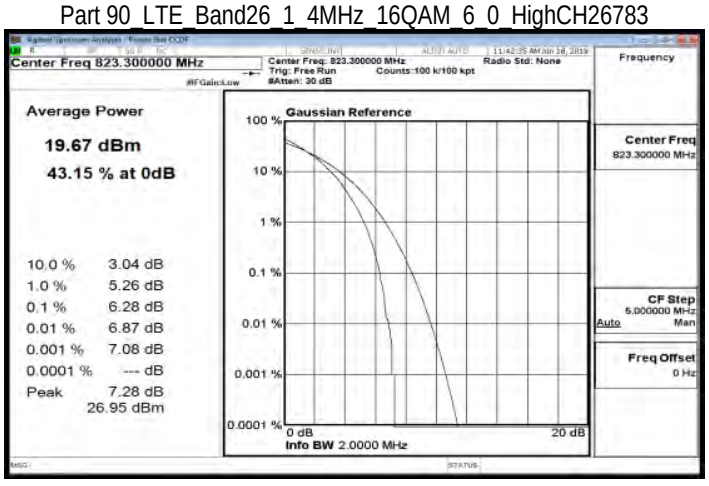

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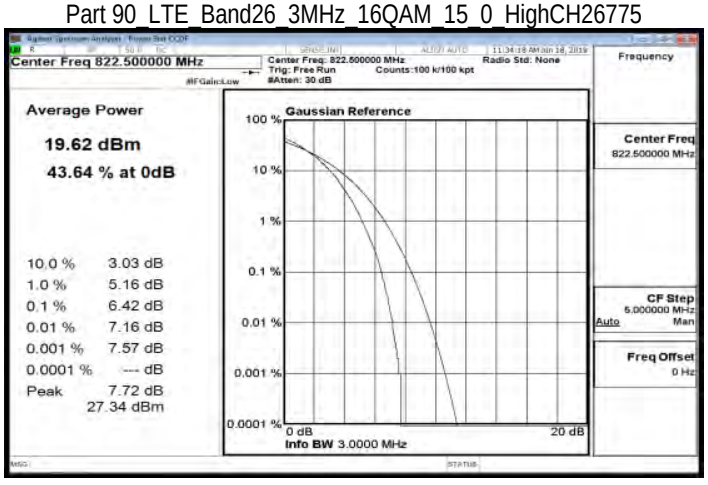

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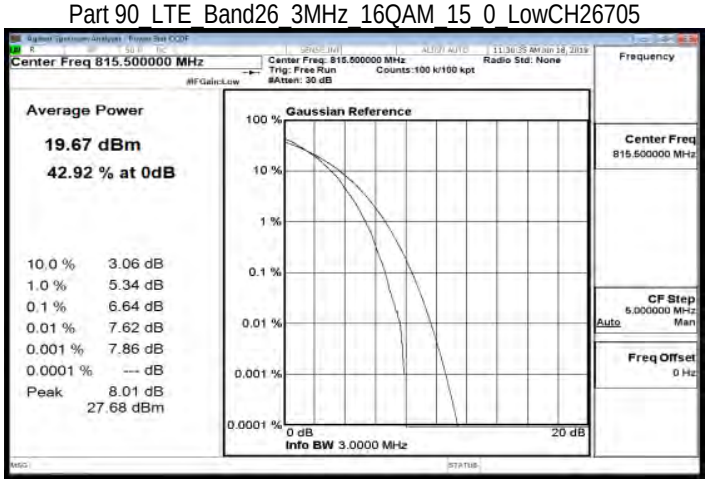
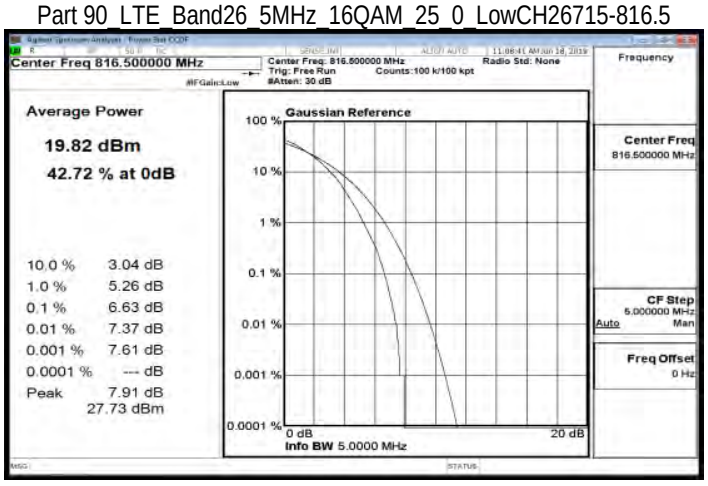
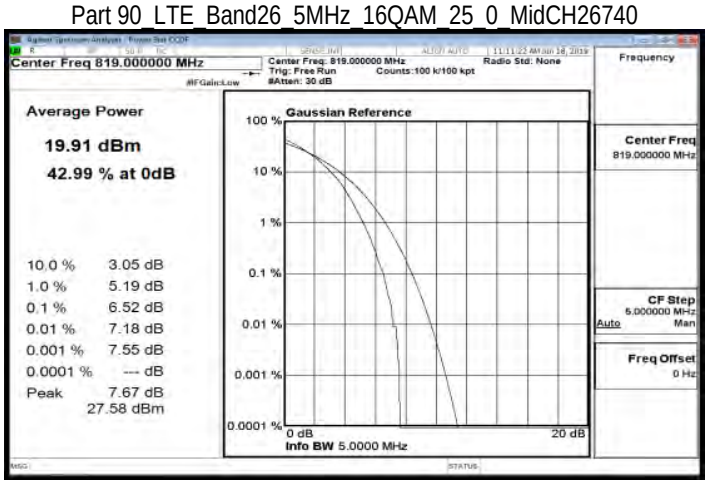


Part 90_LTE_Band26_5MHz_16QAM_25_0_LowCH26715-816.5



Part 90_LTE_Band26_5MHz_16QAM_25_0_MidCH26740



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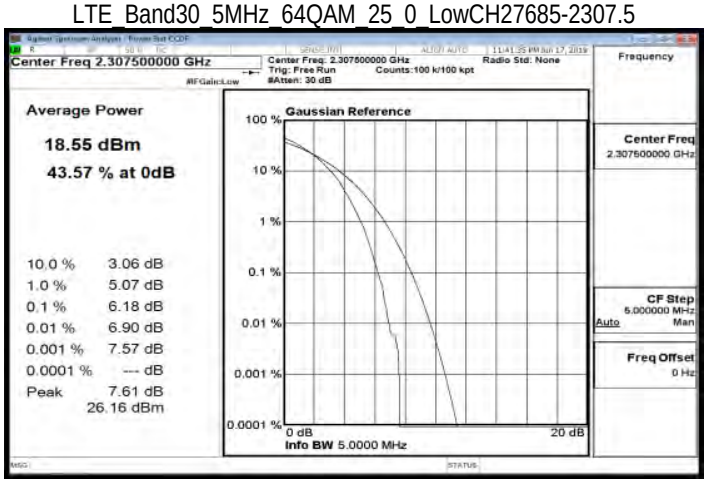
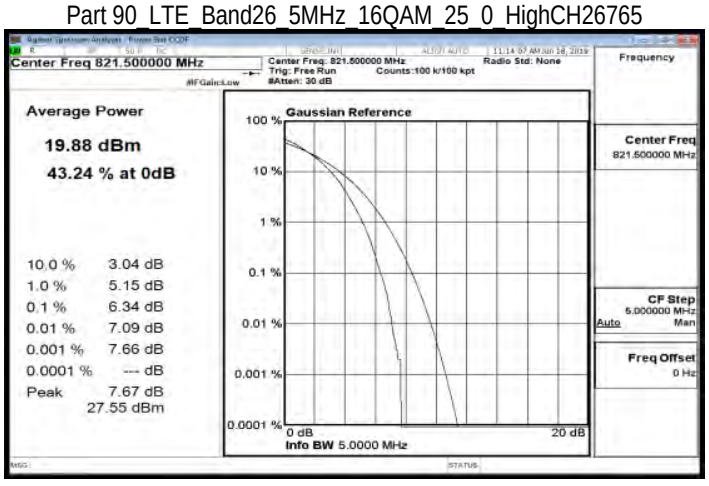


Part 90_LTE_Band26_5MHz_16QAM_25_0_HighCH26765



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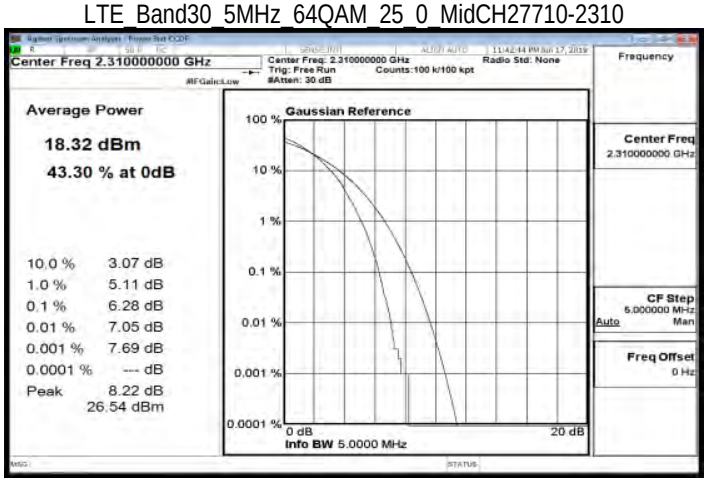

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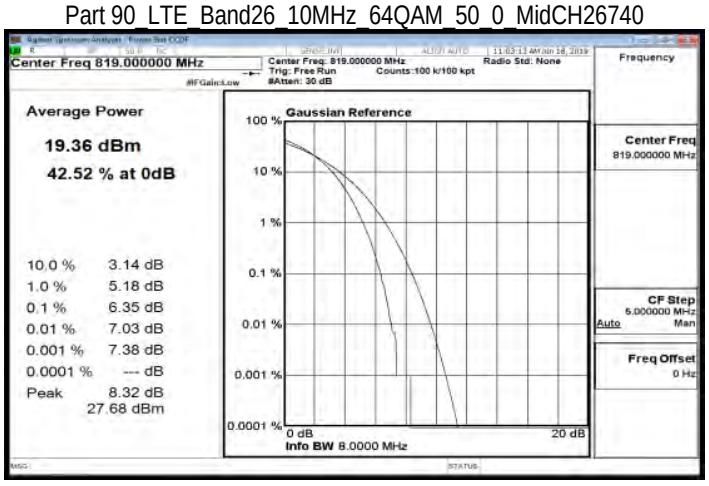

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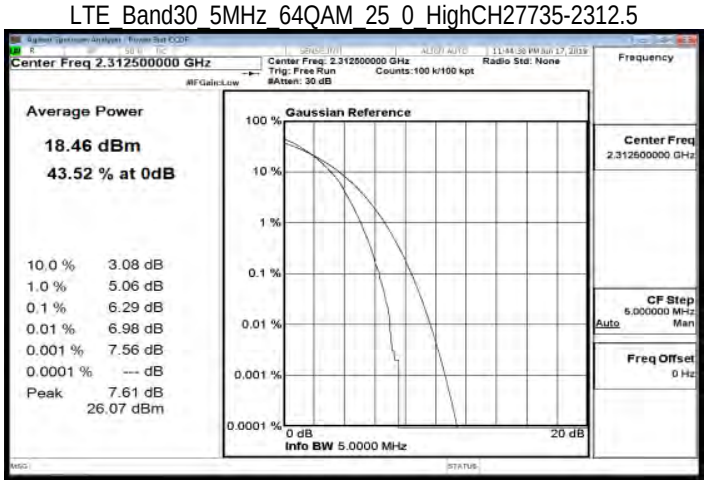

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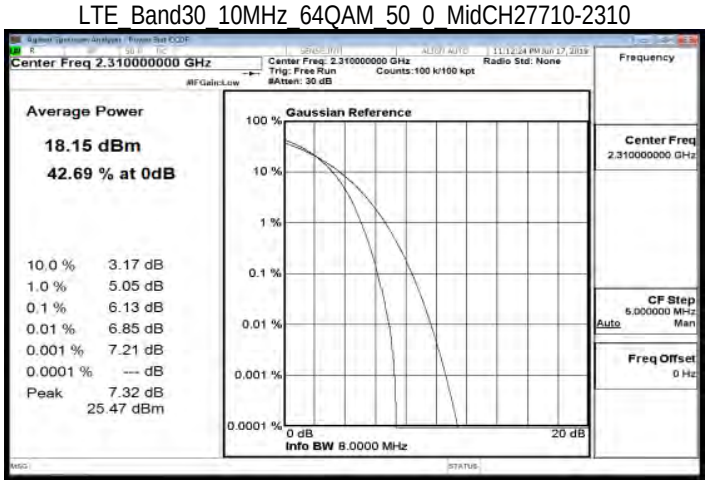

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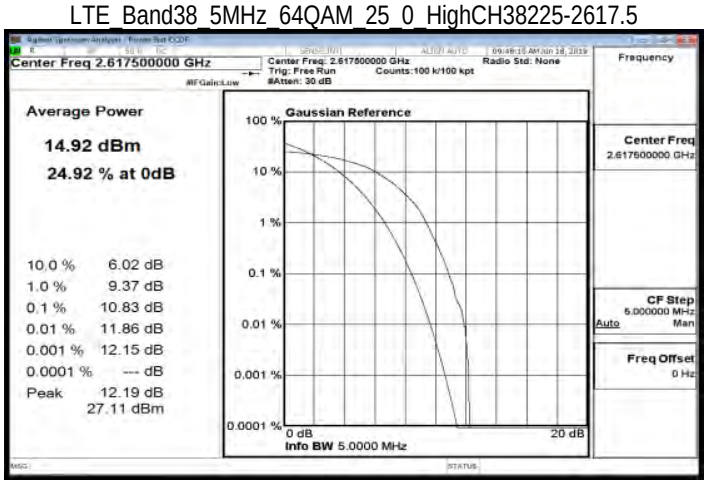

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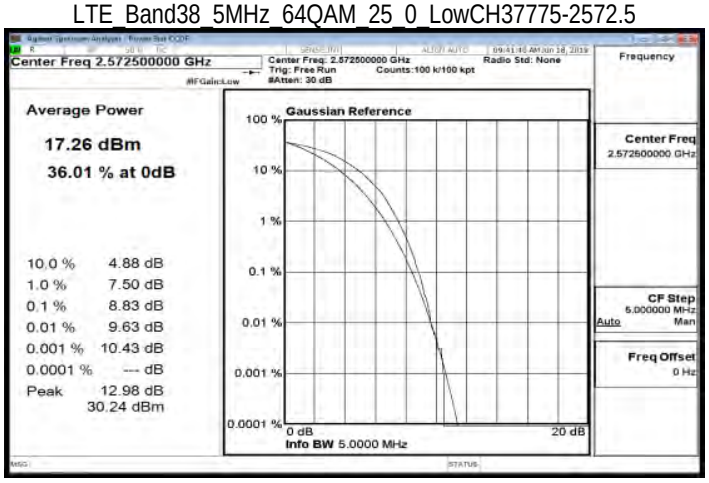

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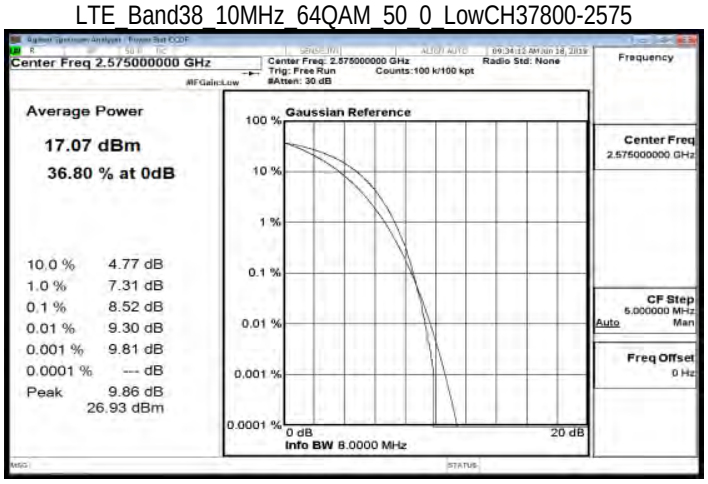
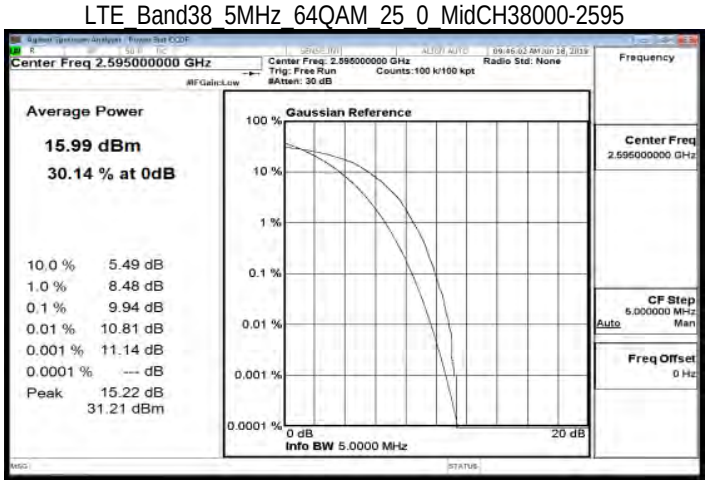
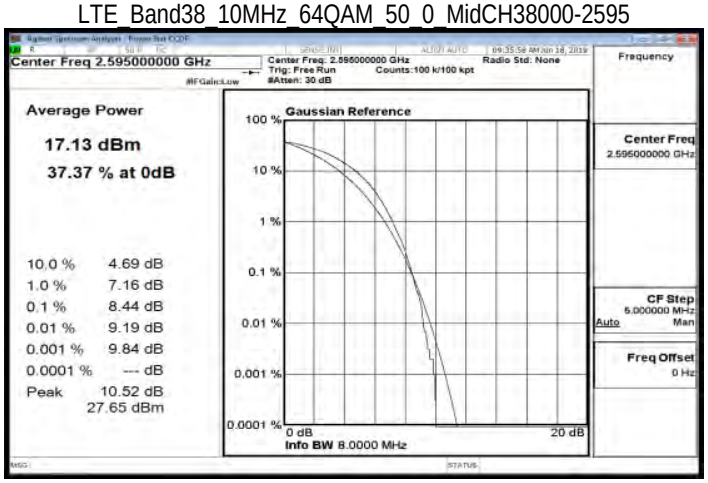


LTE_Band38_5MHz_64QAM_25_0_MidCH38000-2595



LTE_Band38_10MHz_64QAM_50_0_MidCH38000-2595



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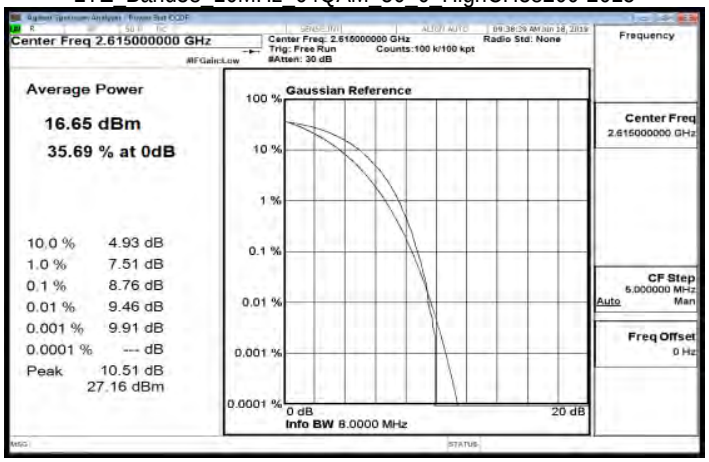

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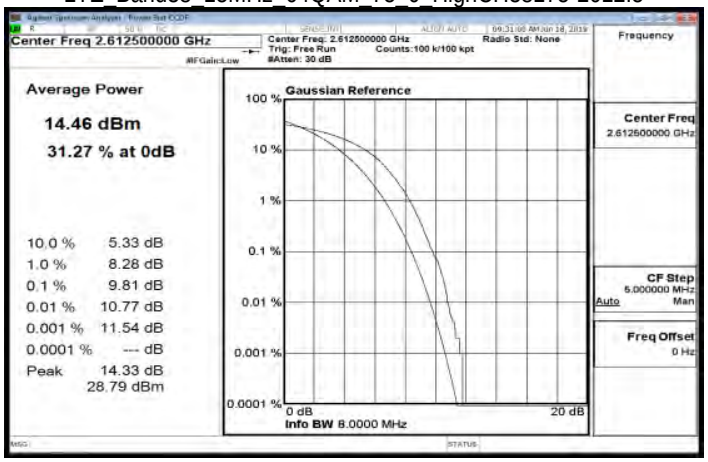

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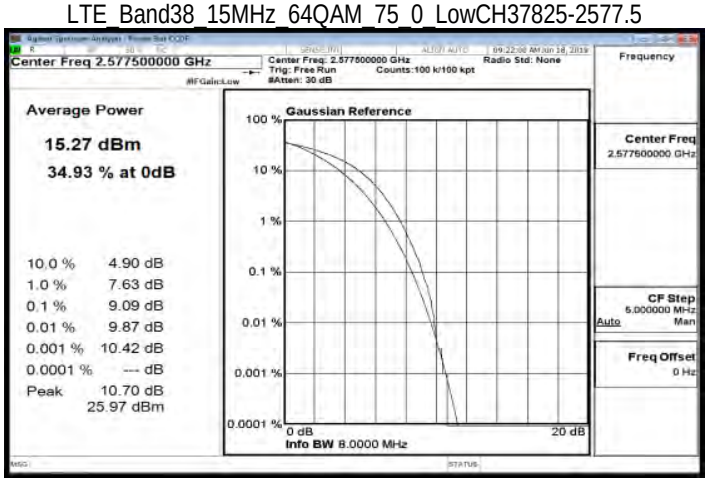

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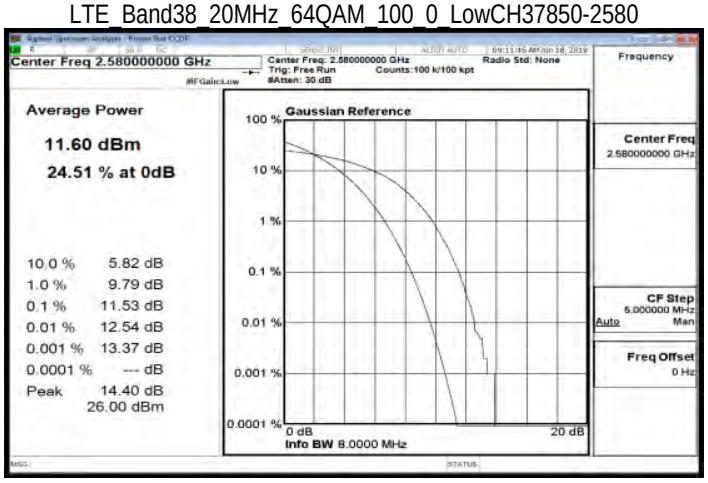

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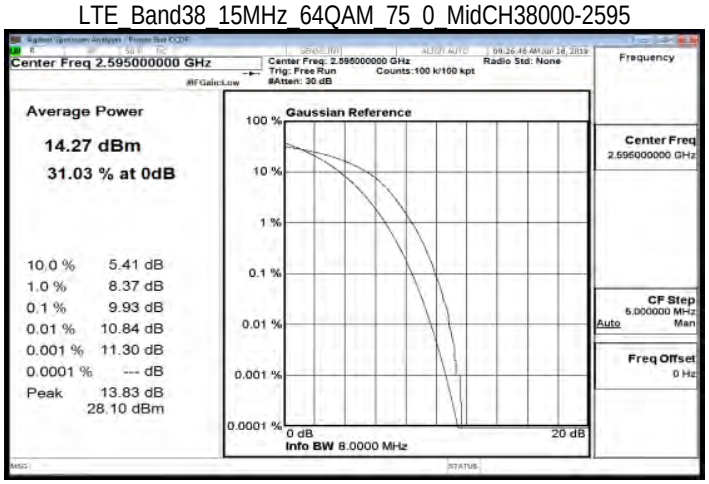

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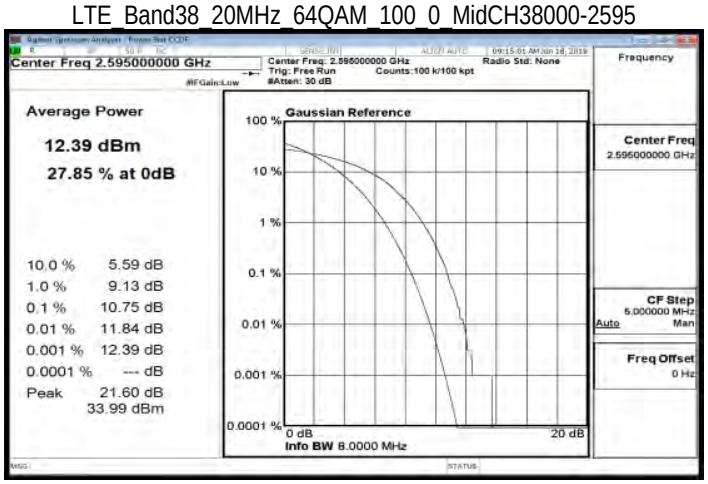

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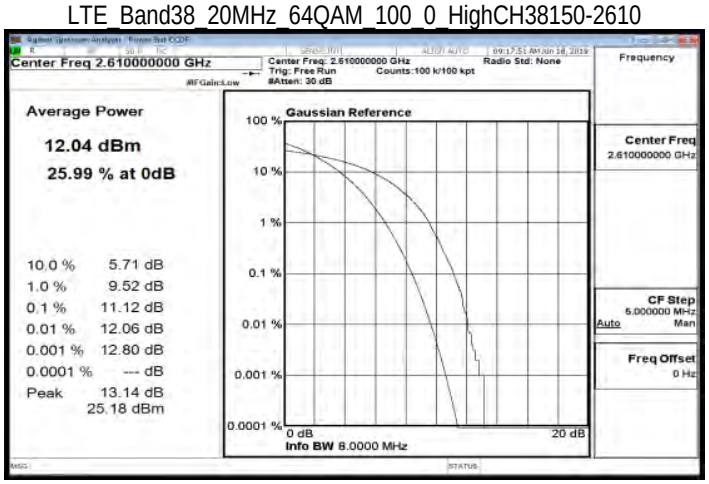

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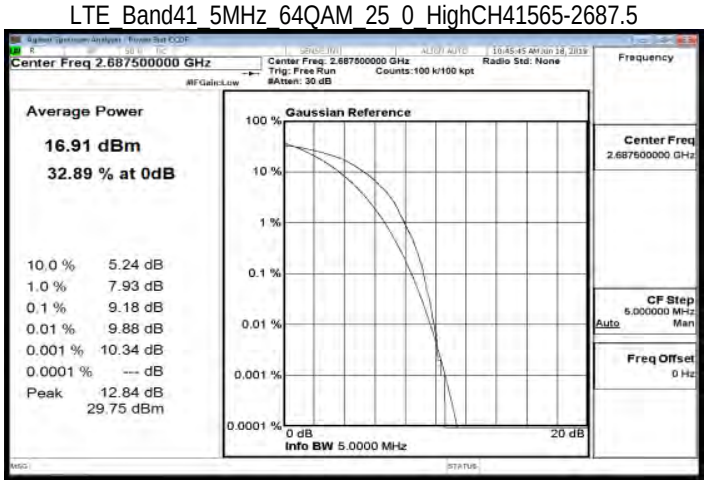

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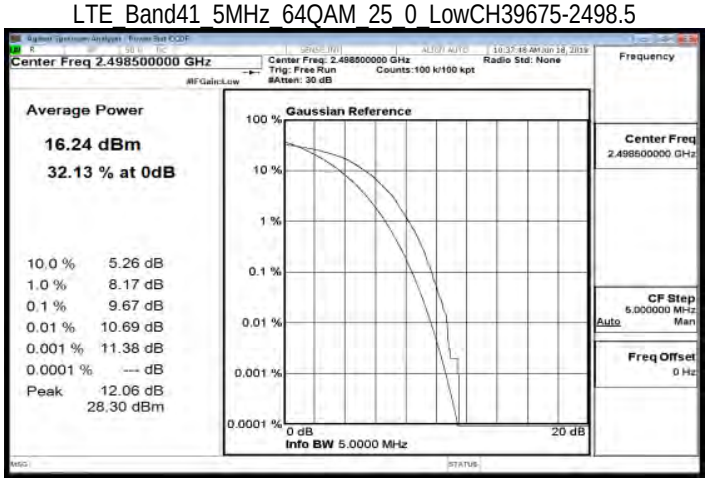

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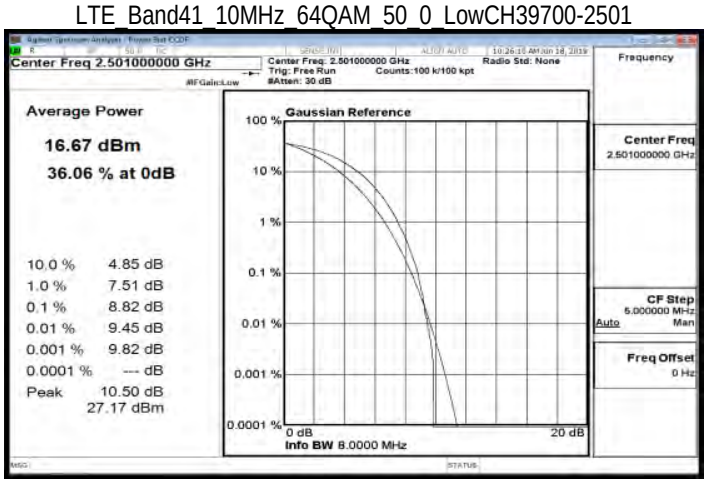

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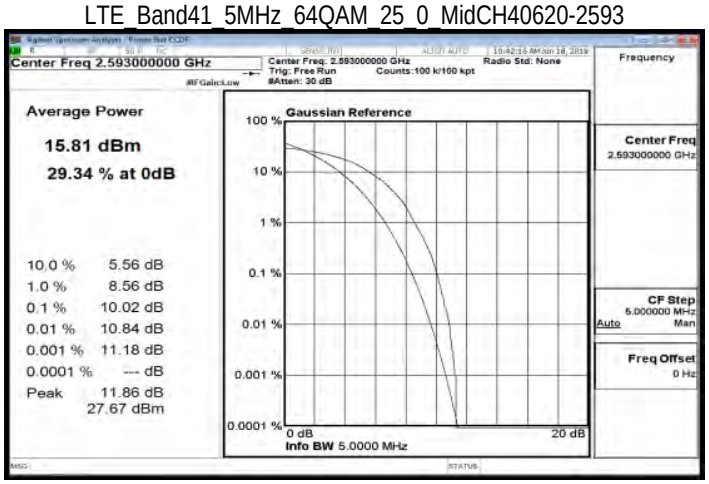

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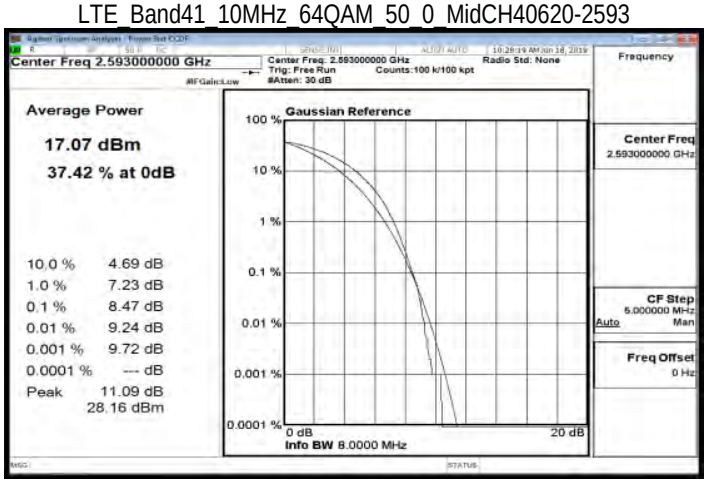

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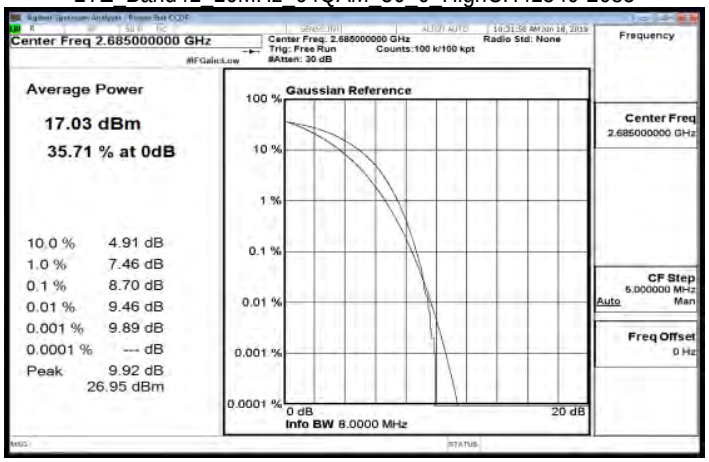

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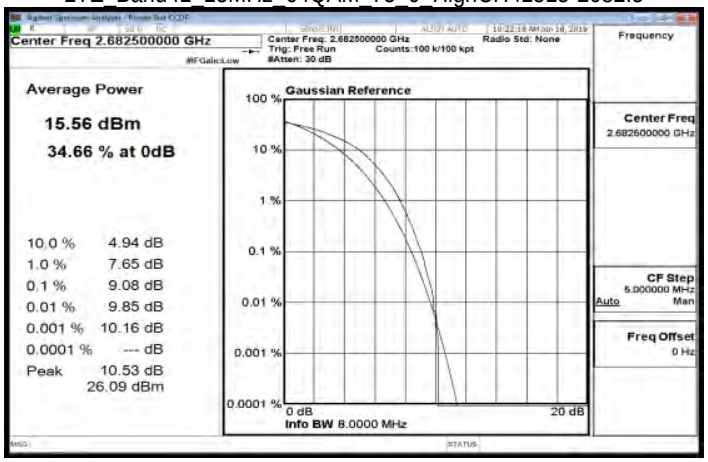

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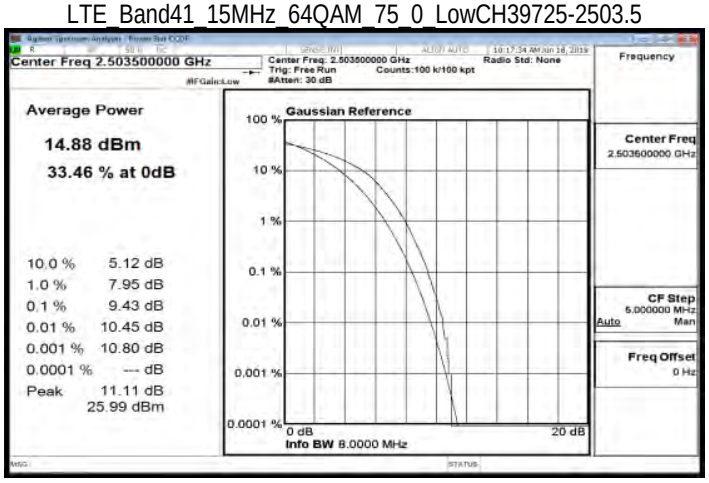

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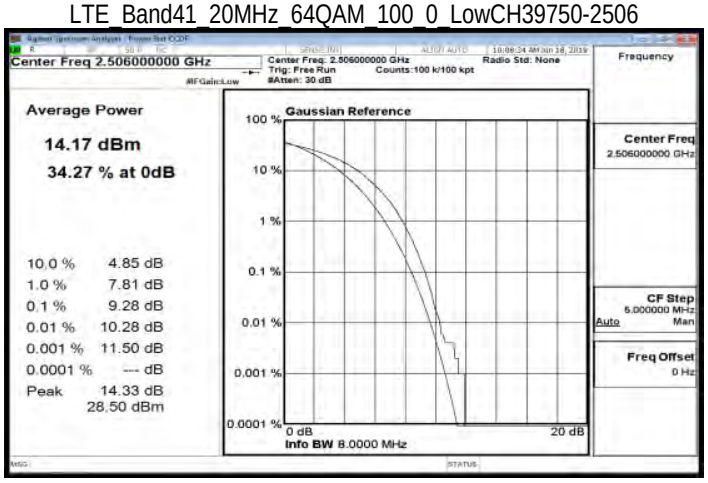

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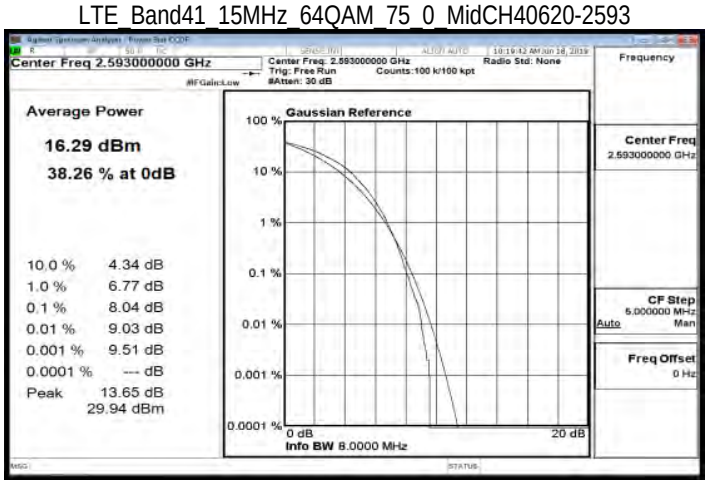

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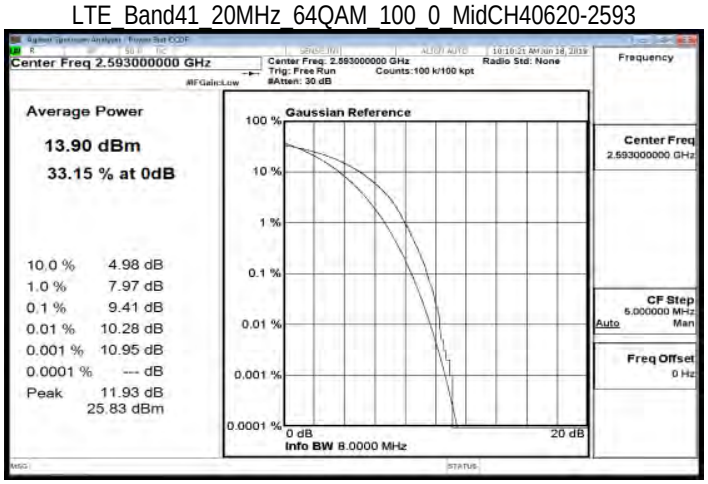

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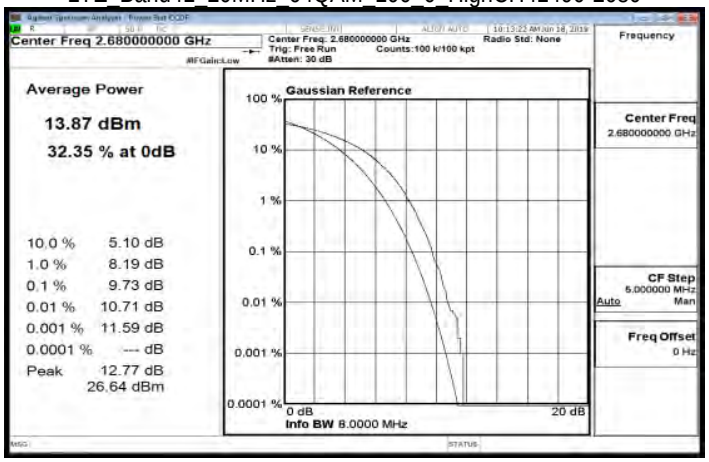

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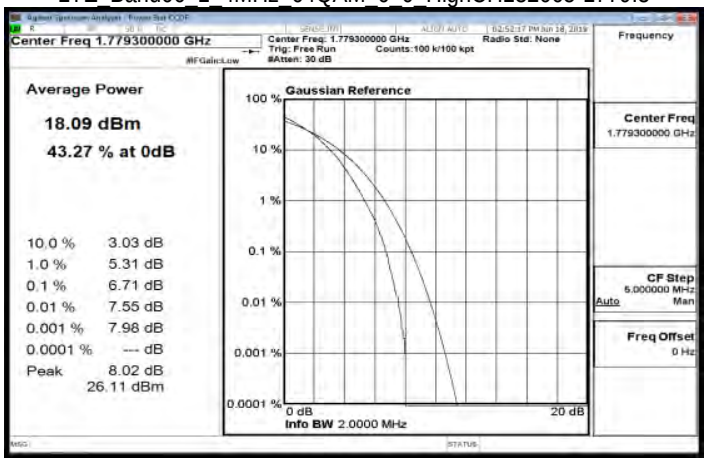

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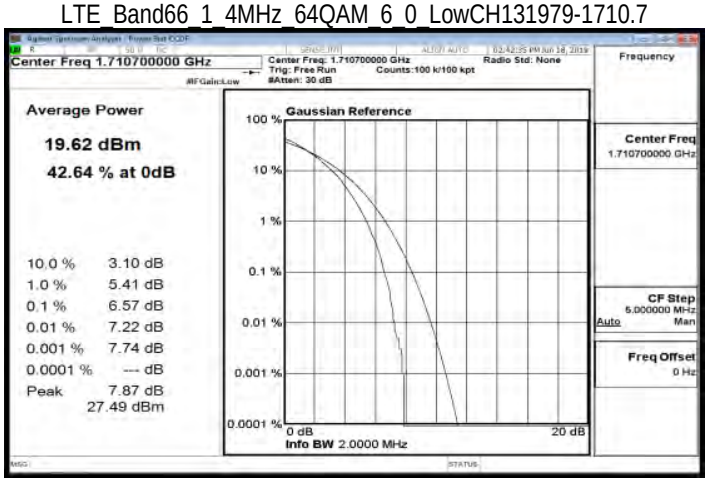

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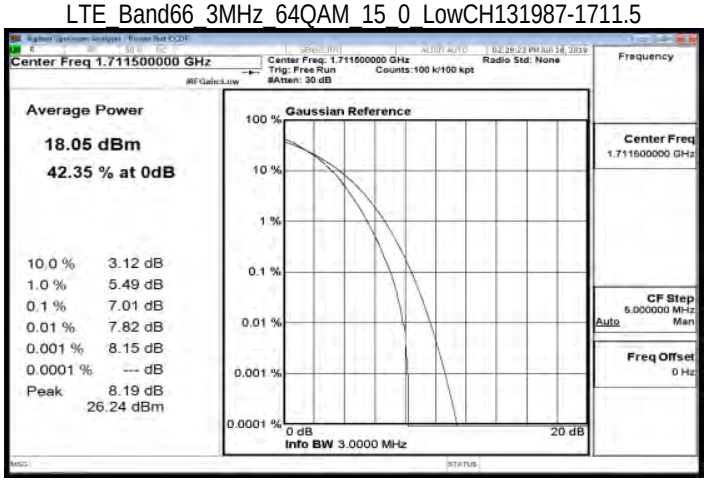

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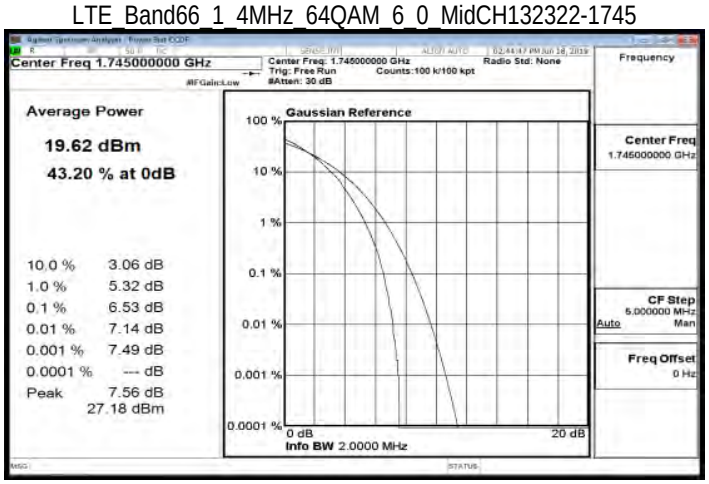

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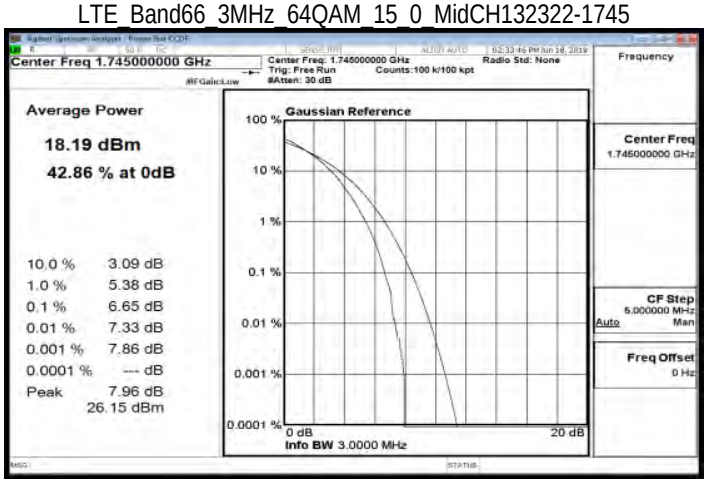

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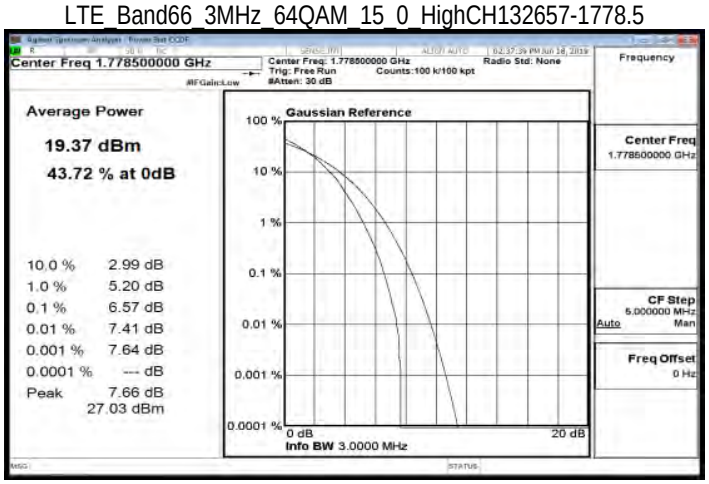

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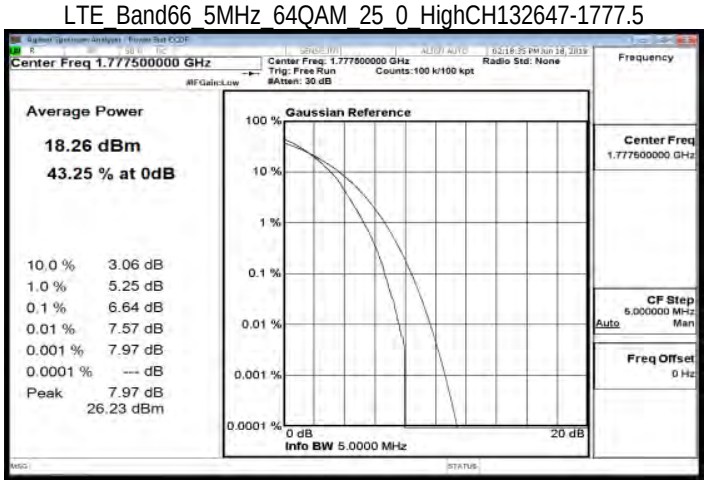

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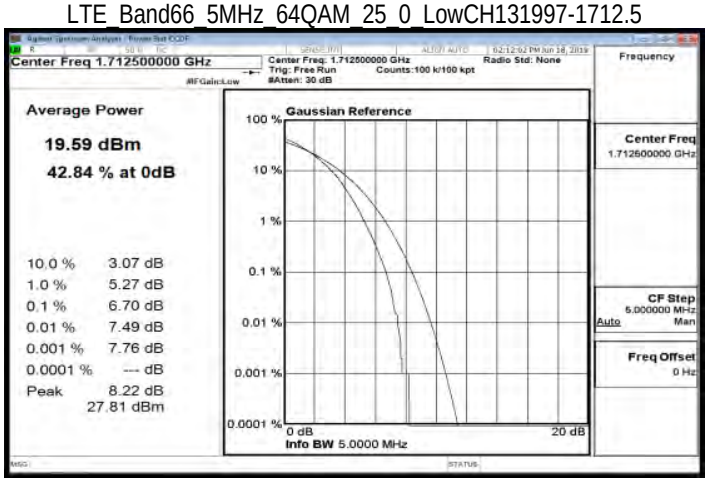

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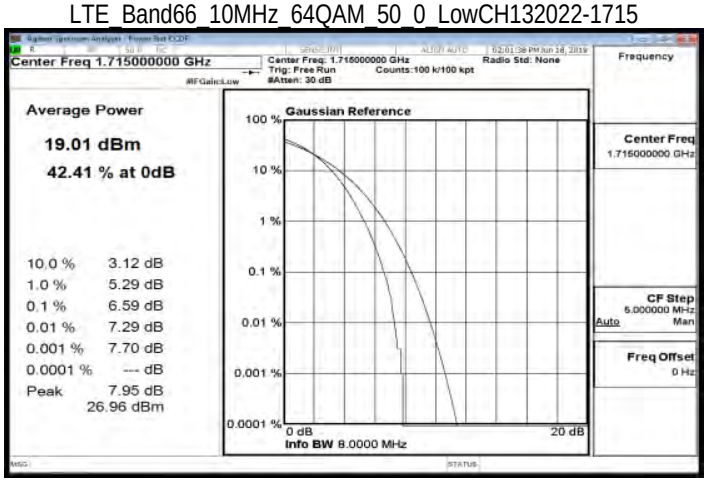

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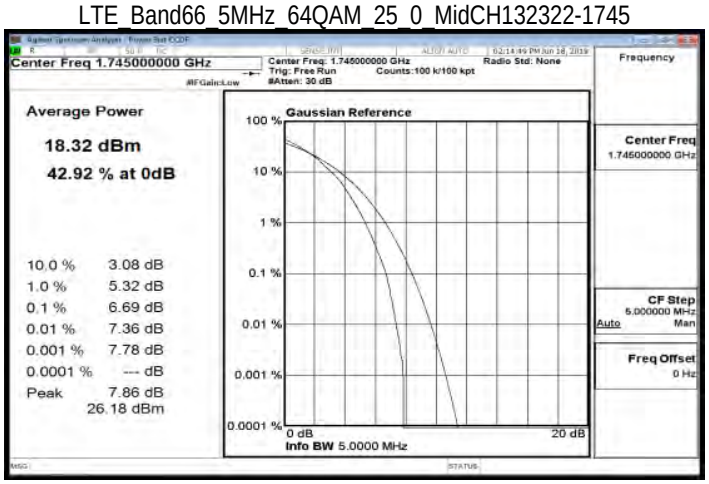

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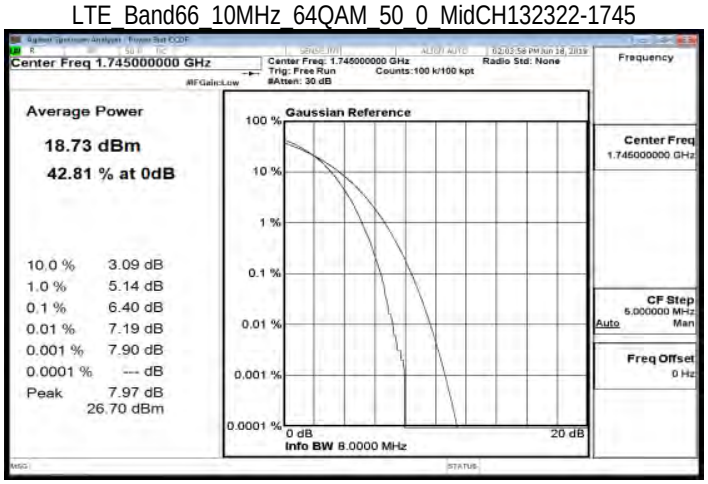

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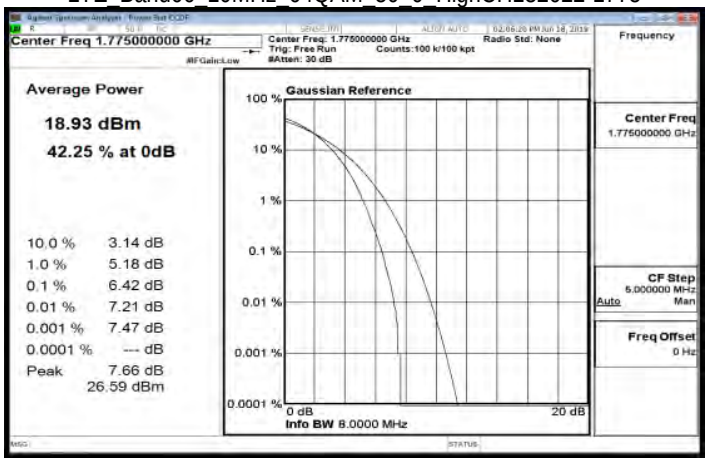

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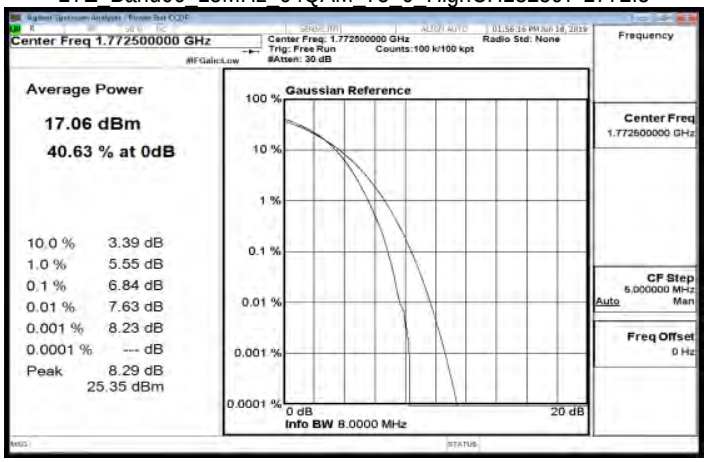

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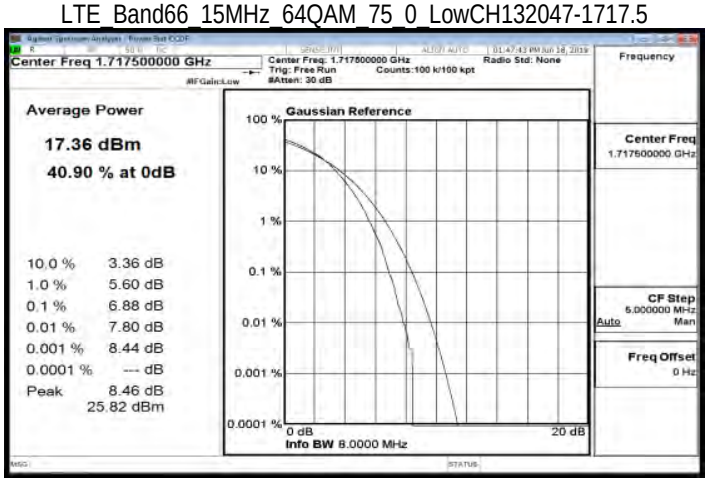

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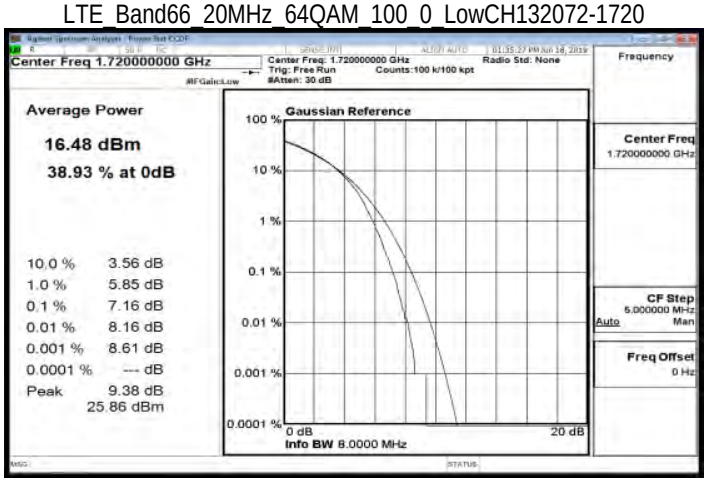

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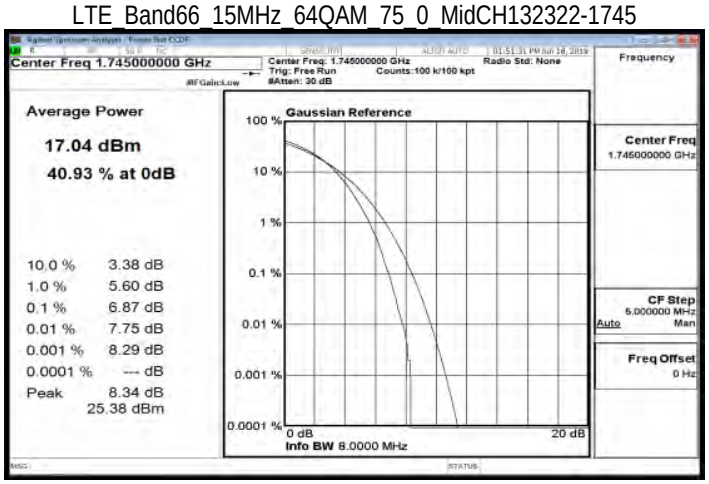

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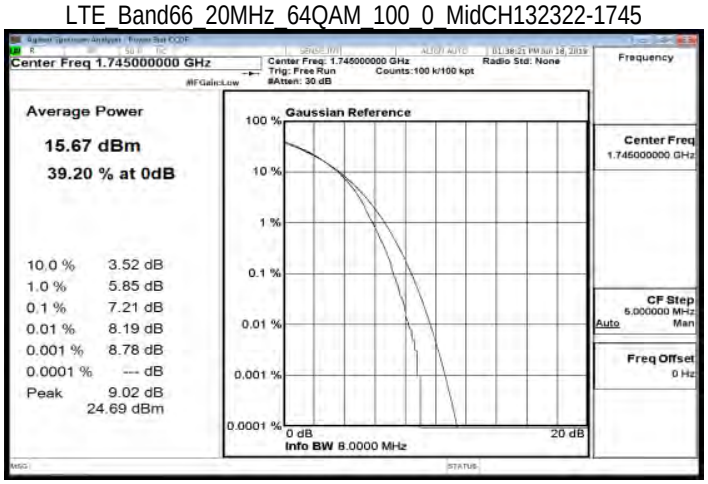

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