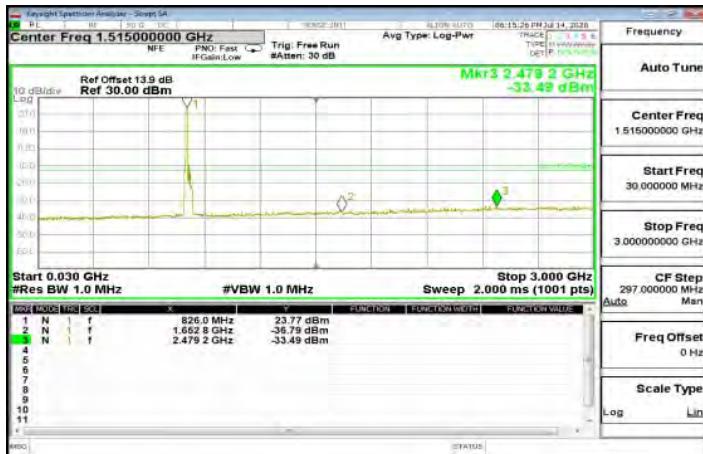
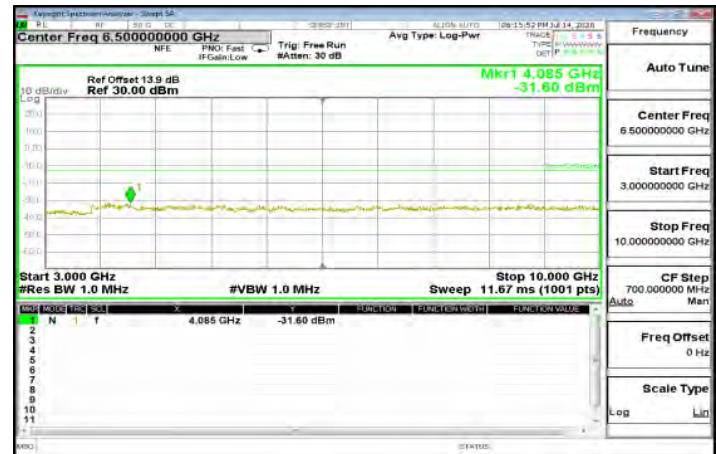


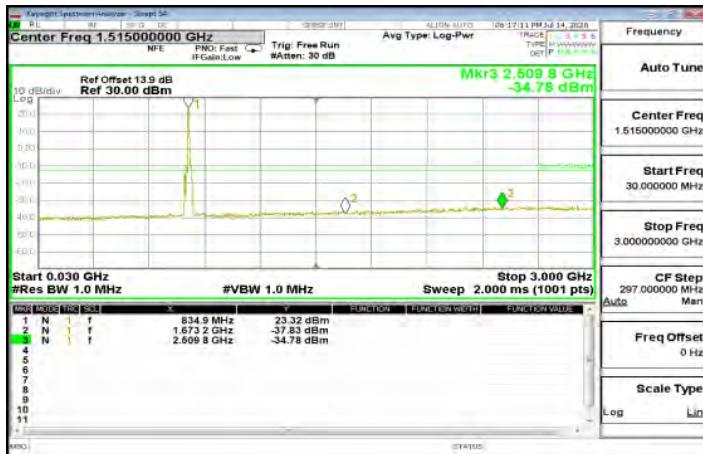
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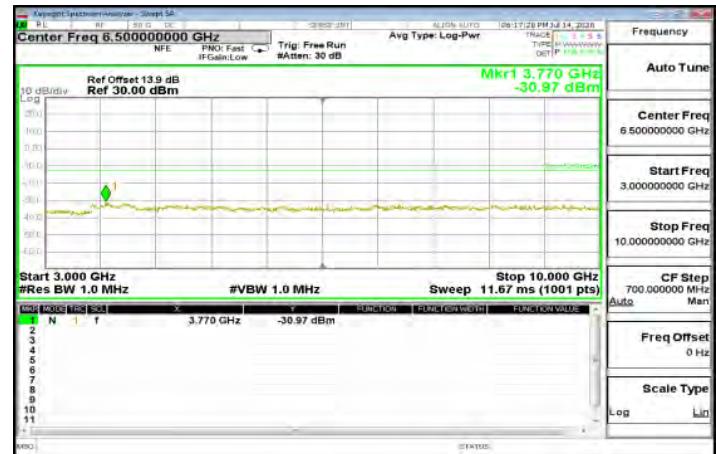
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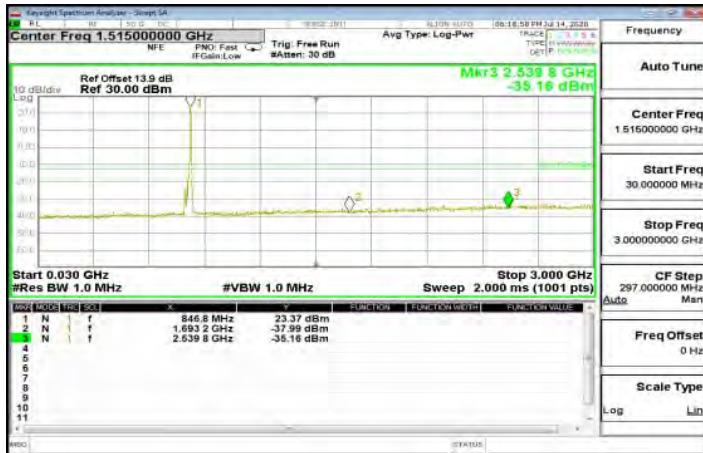
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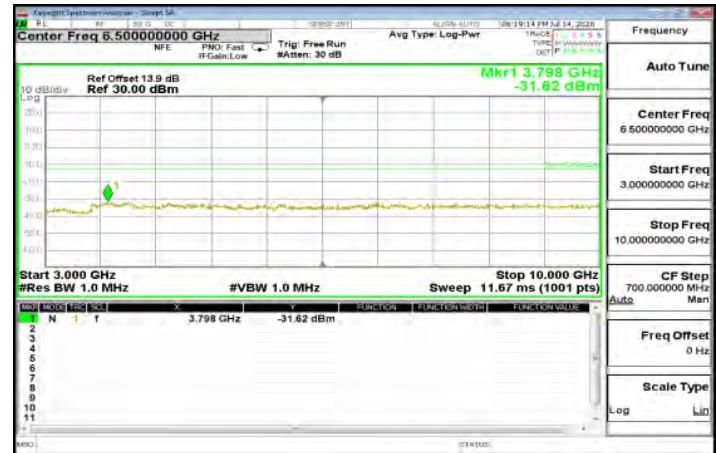
Spurious Emission High_ HSUPA_B5_Mid CH4183-836.6



Spurious Emission Low_ HSUPA_B5_High CH4233-846.6



Spurious Emission High_ HSUPA_B5_HighCH4233-846.6



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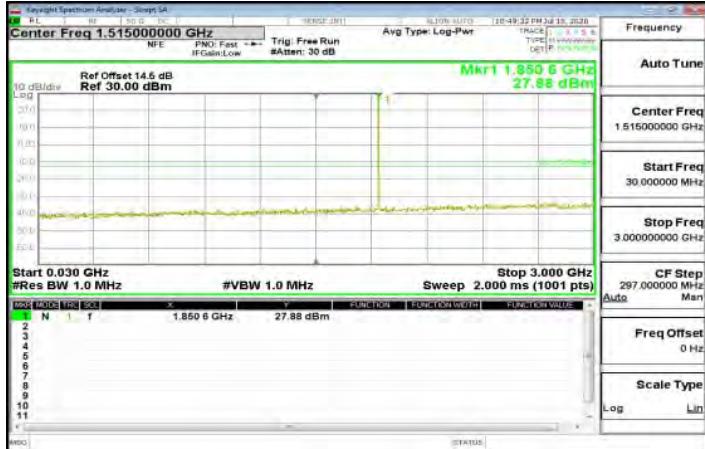
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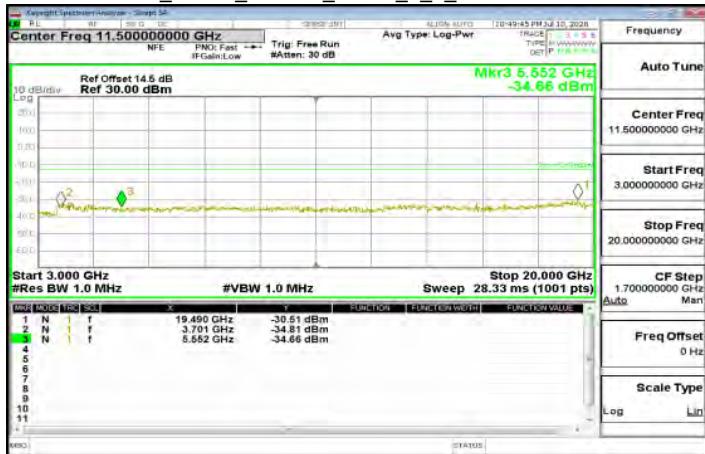
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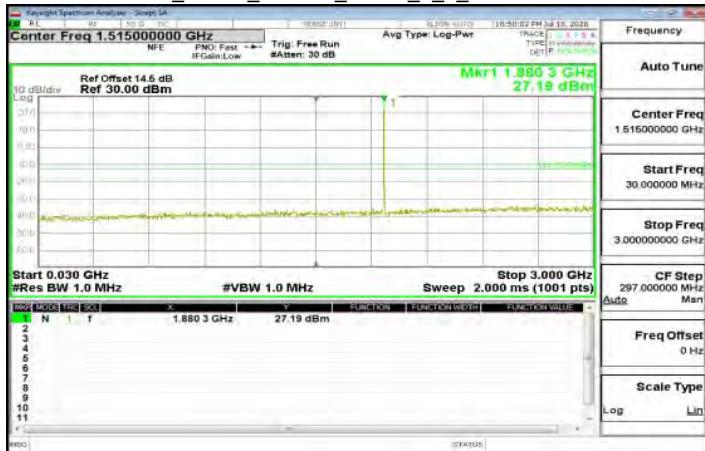
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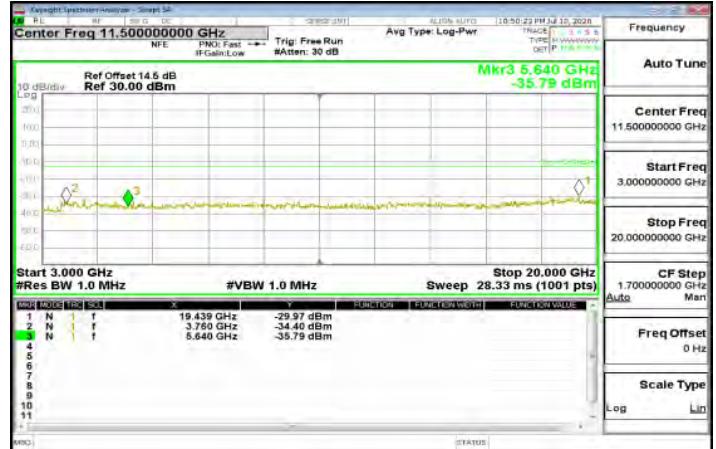
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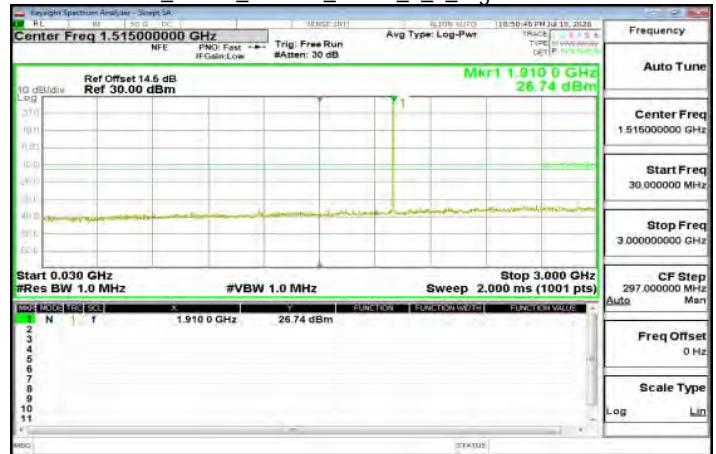
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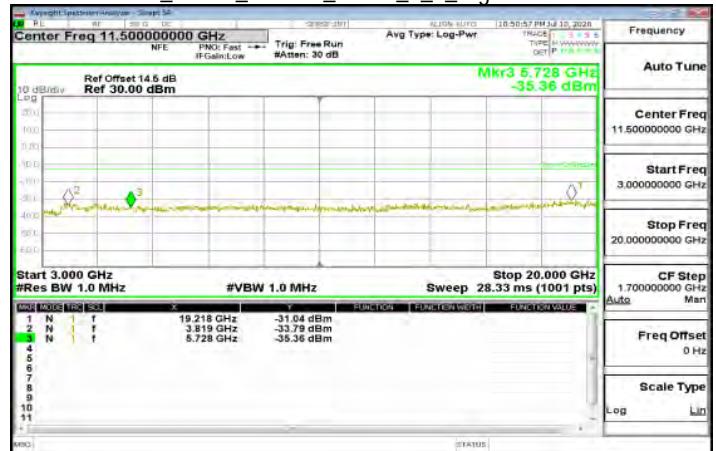
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3GHz~10GHz_Band2_1.4MHz_QPSK_1_0_HighCH19193-1909.3



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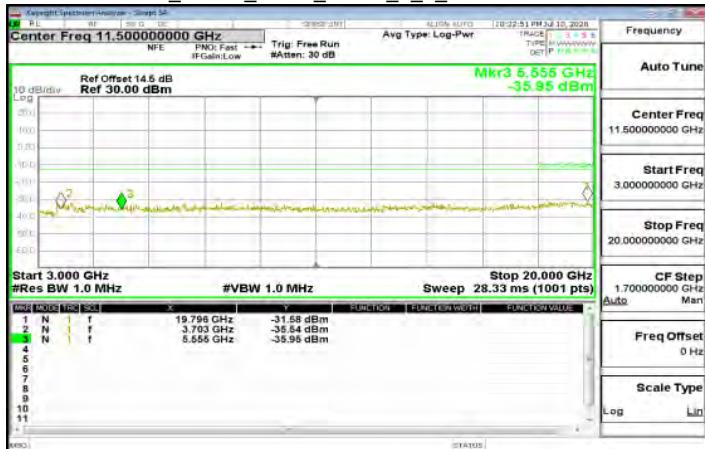
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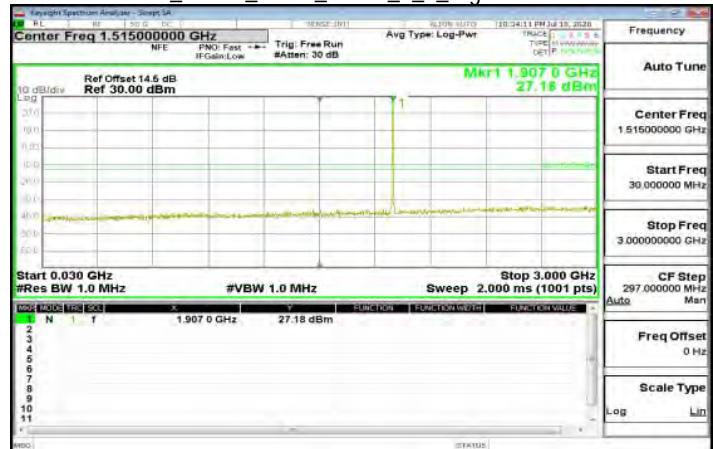
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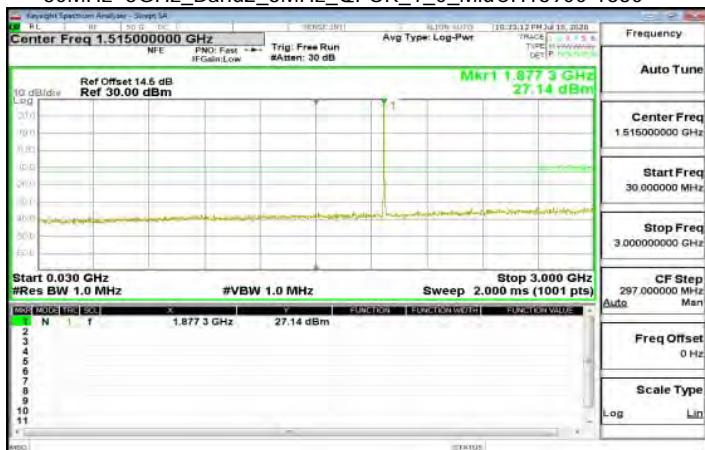
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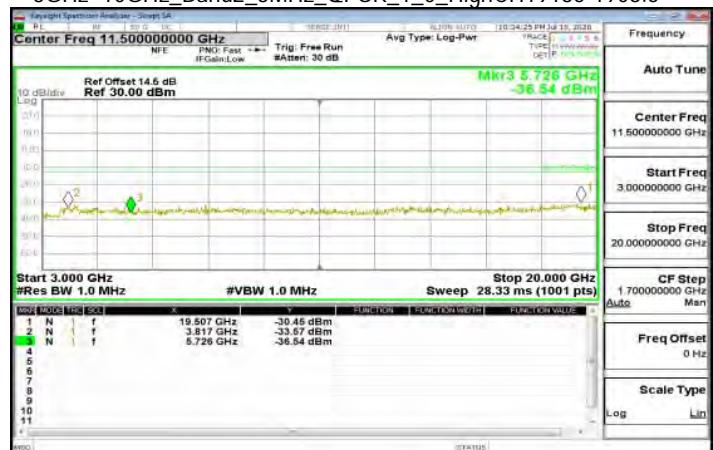
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30MHz~3GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5



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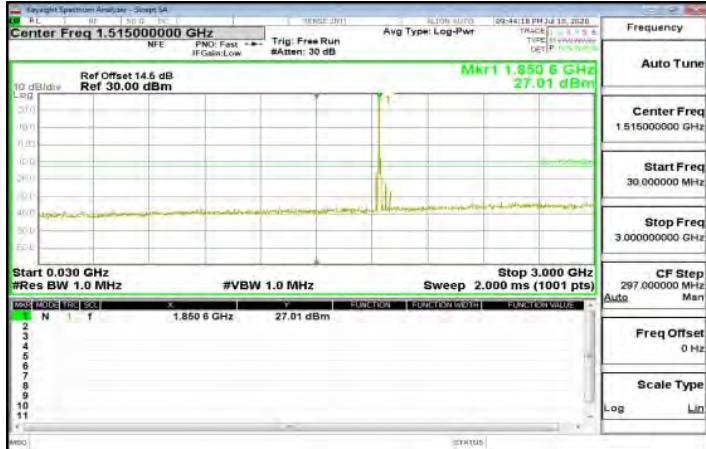
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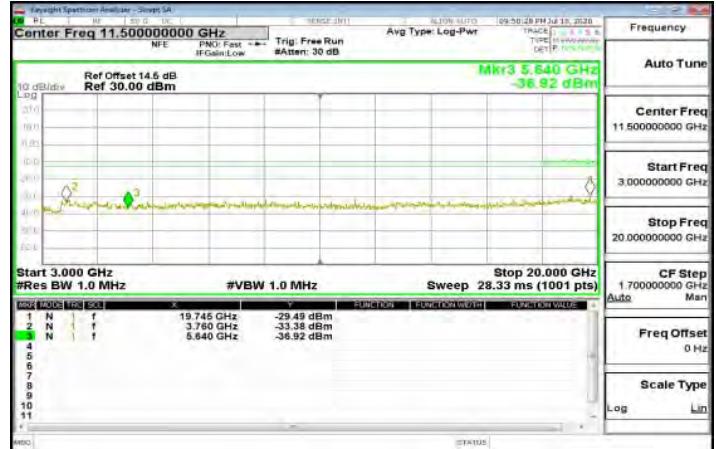
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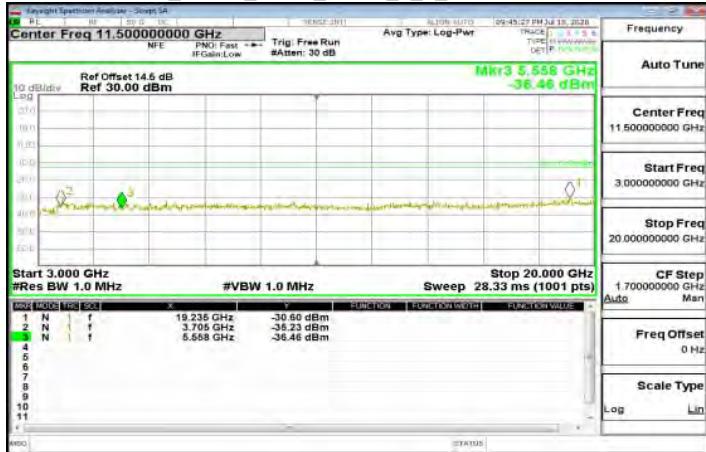
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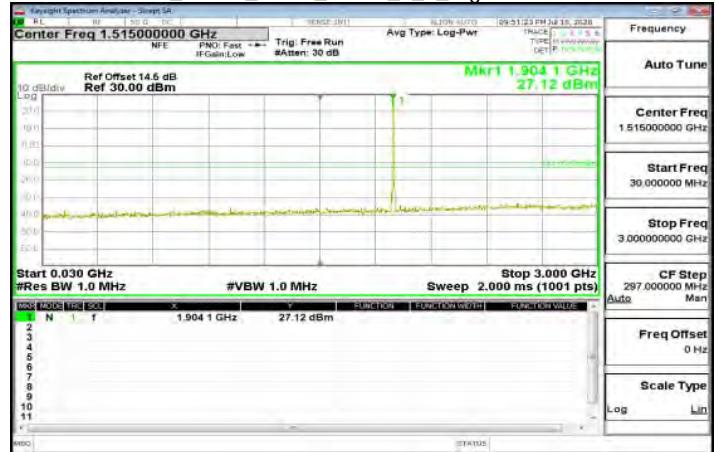
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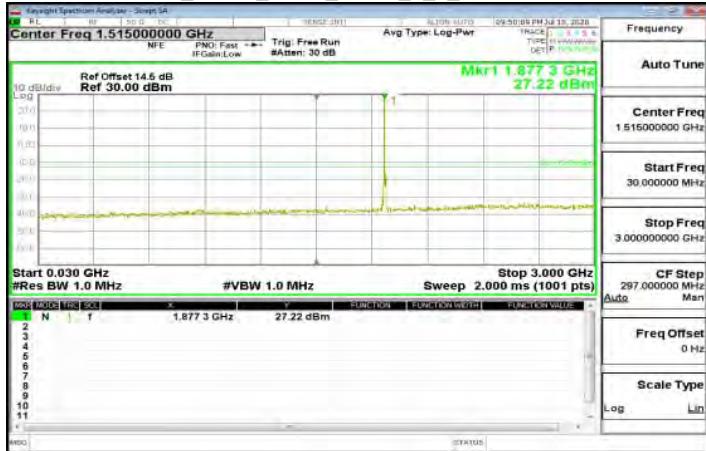
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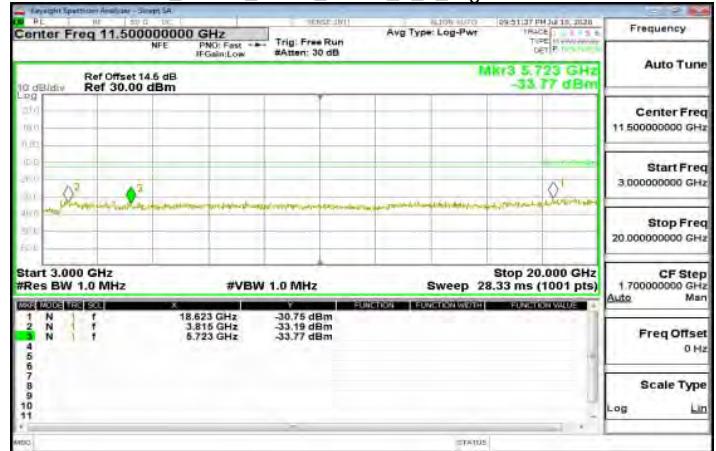
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30MHz~3GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5



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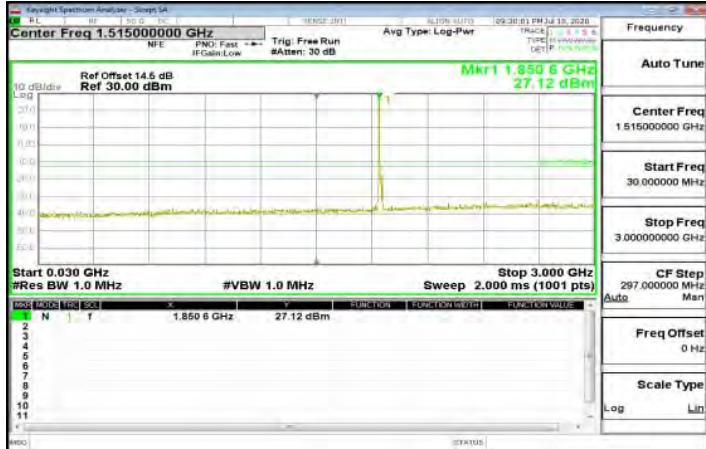
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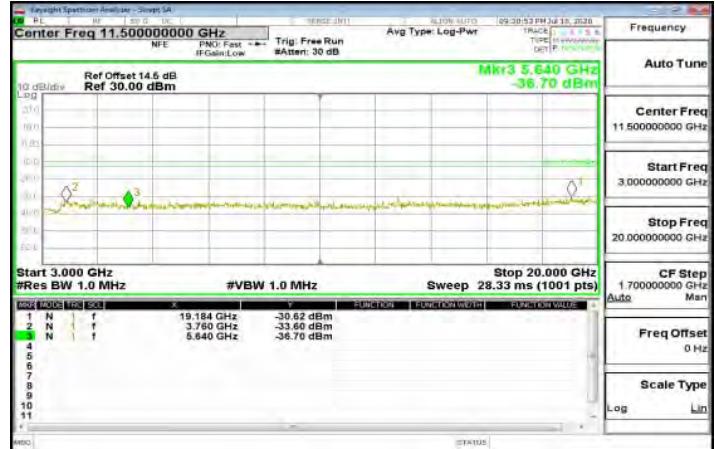
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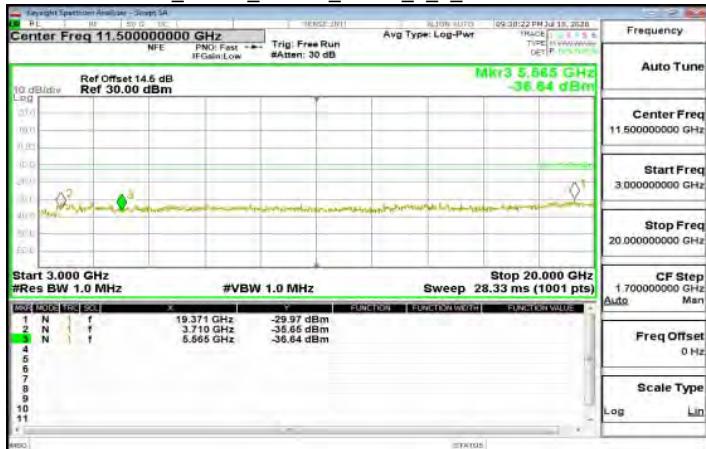
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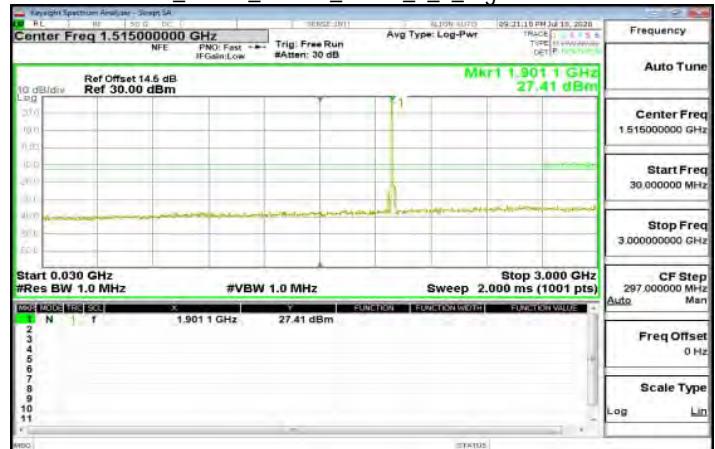
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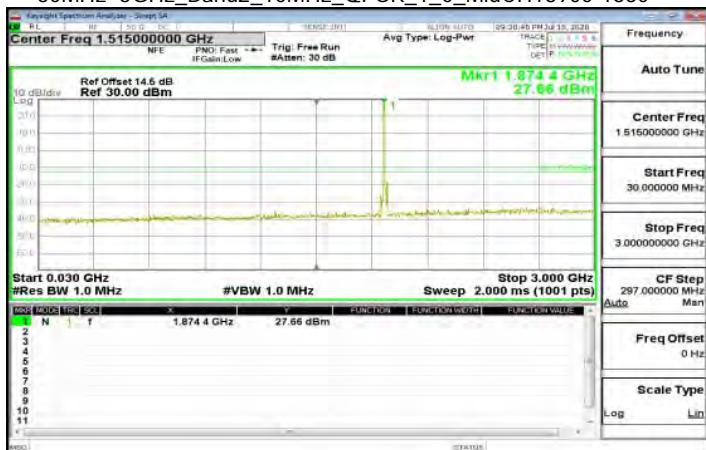
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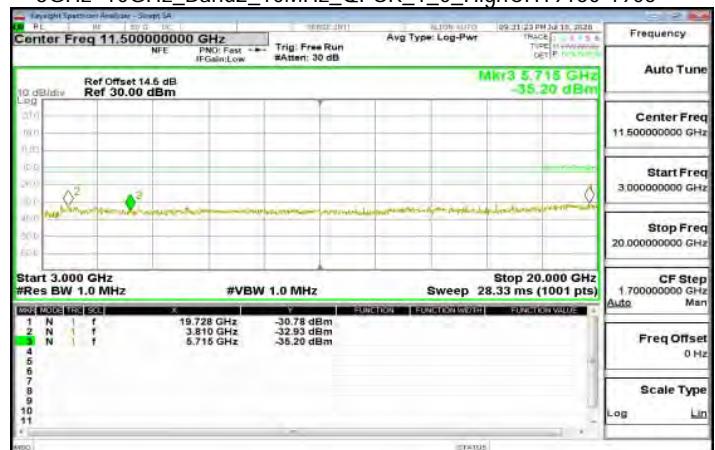
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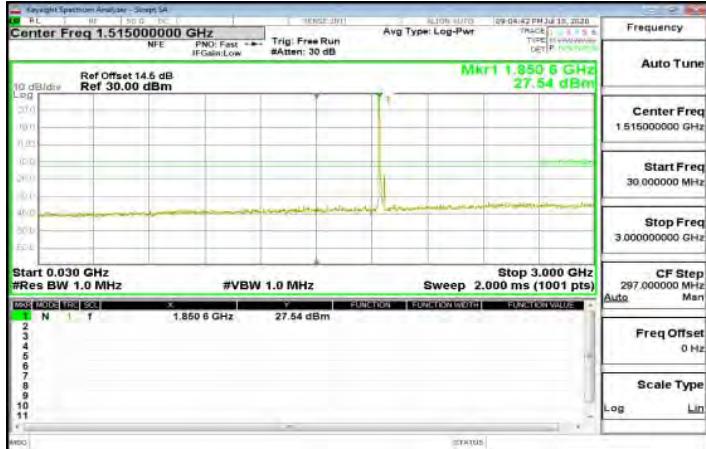


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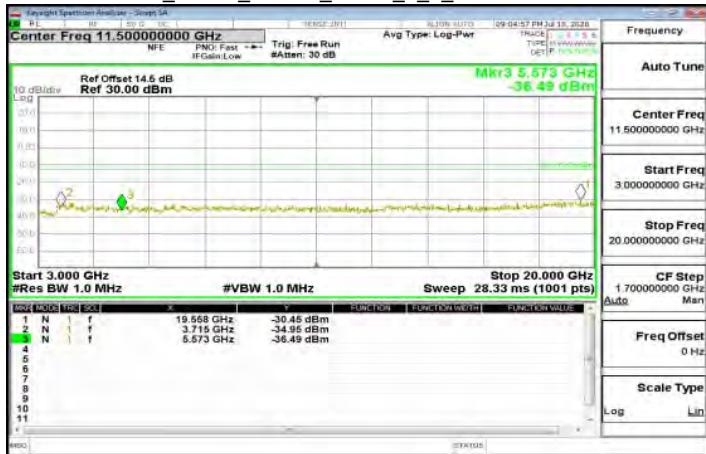
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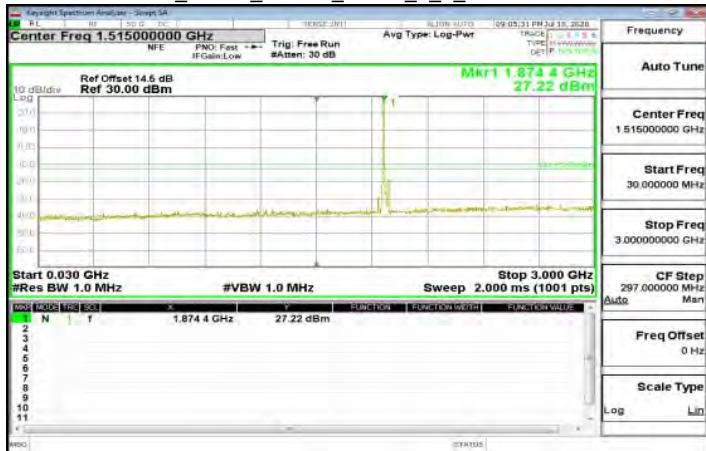
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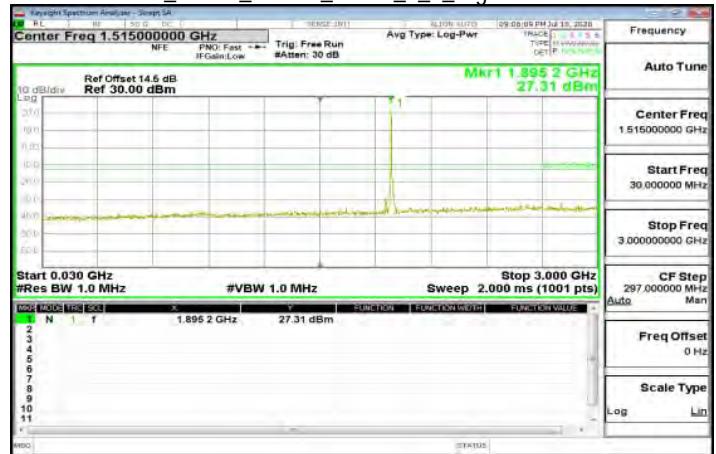
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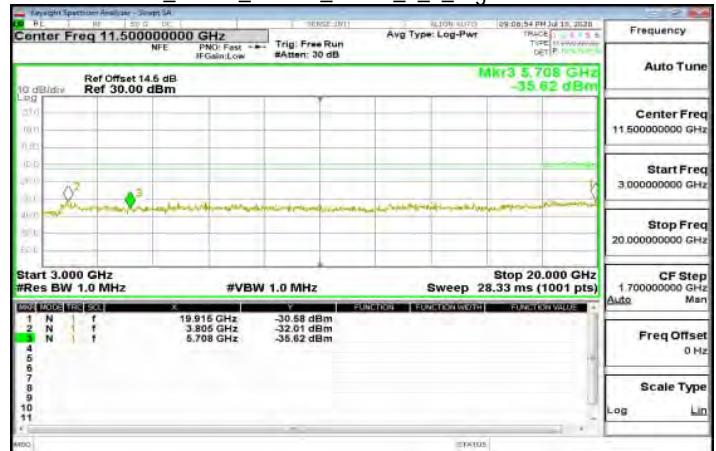
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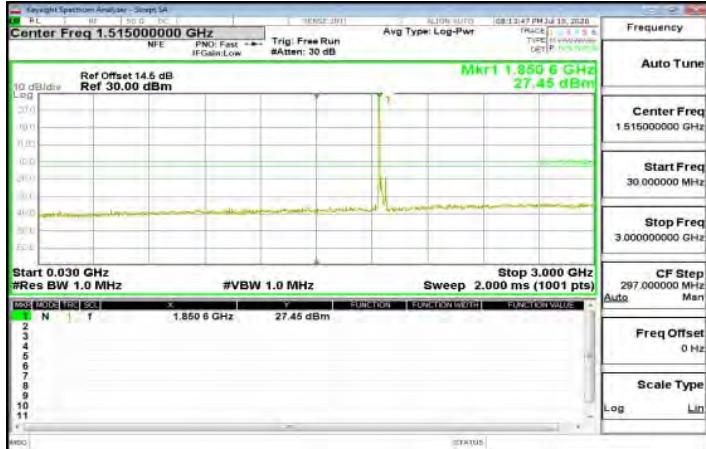
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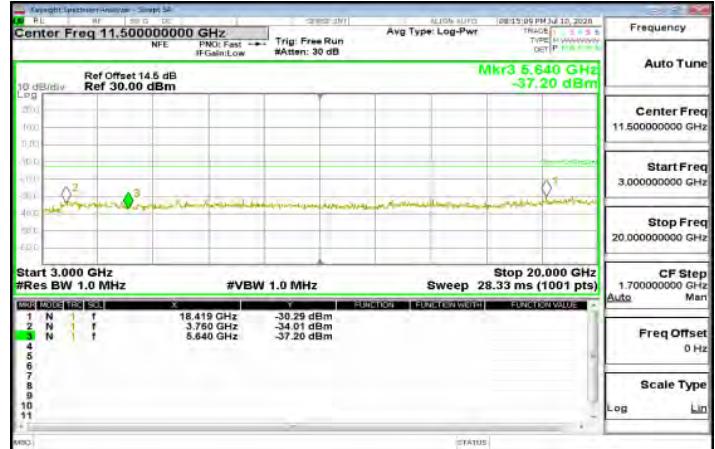
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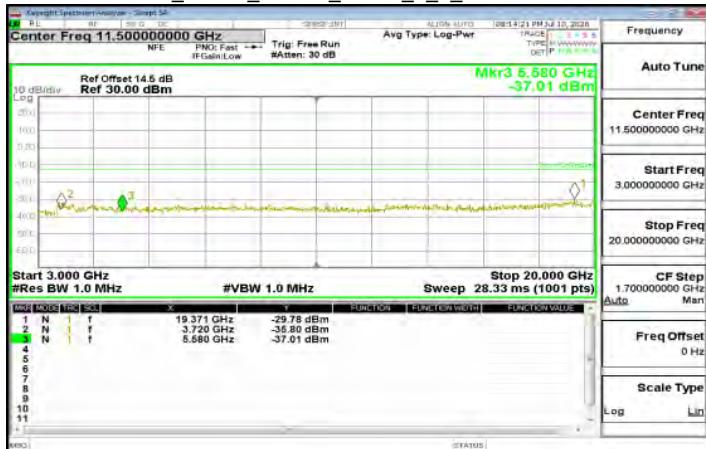
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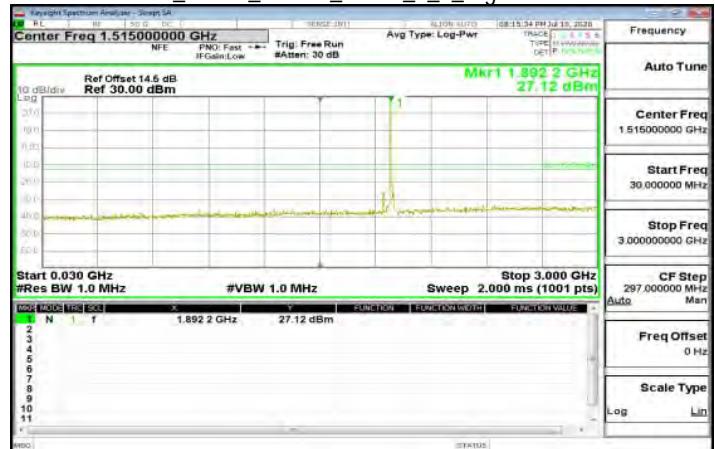
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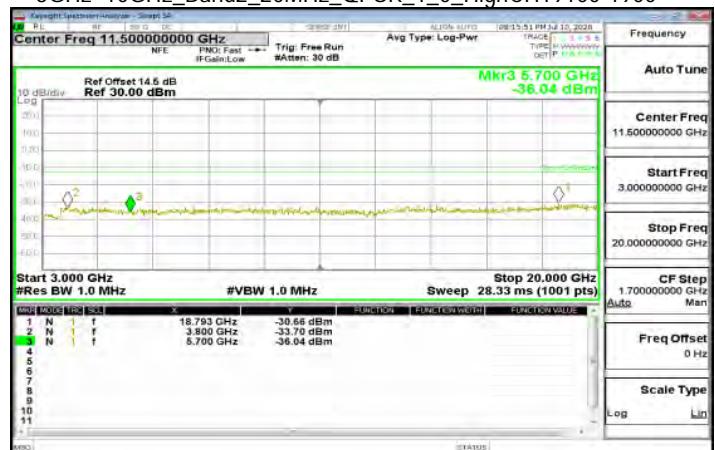
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3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900



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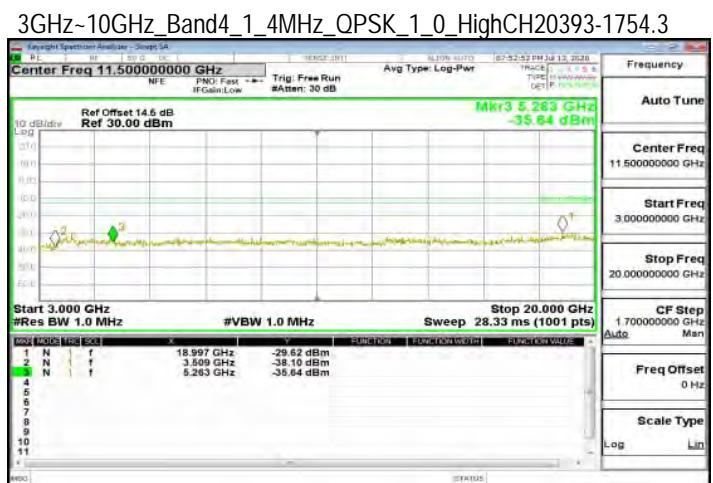
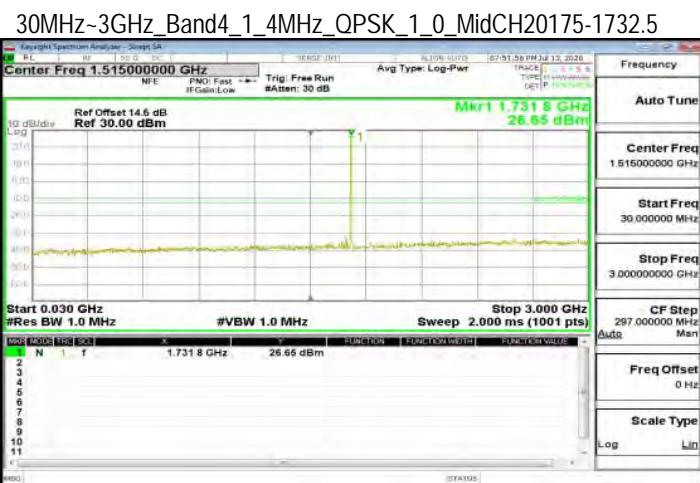
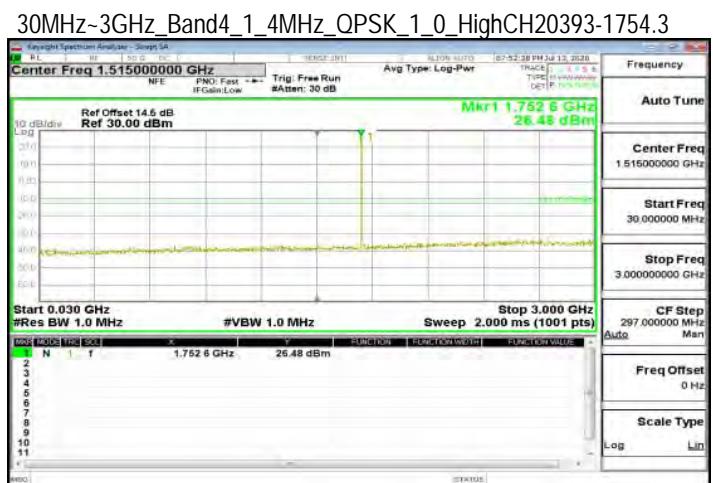
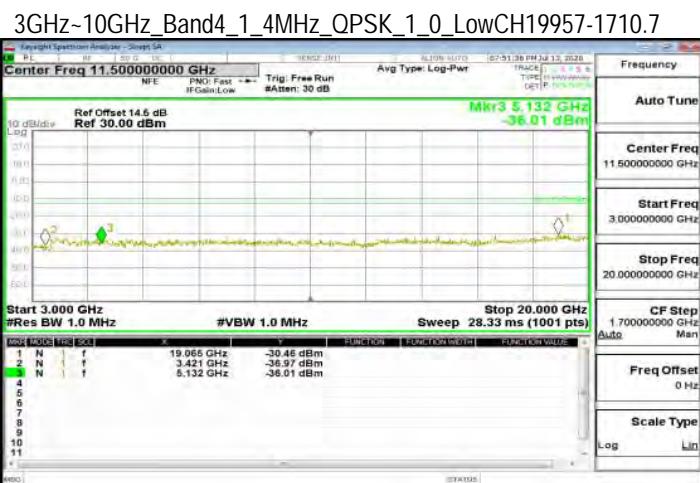
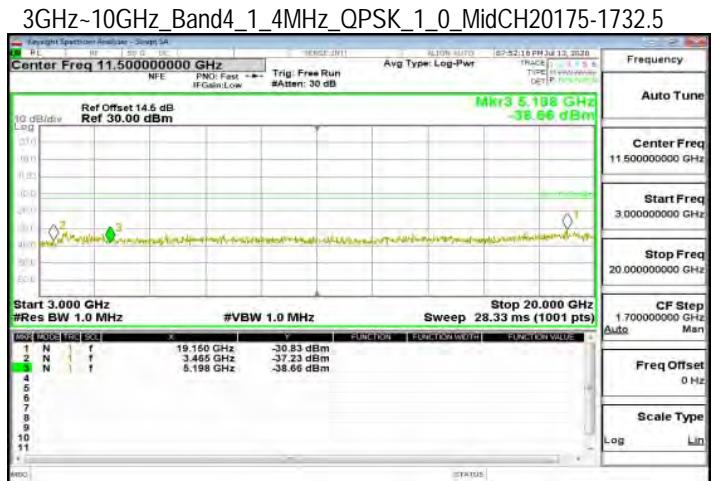
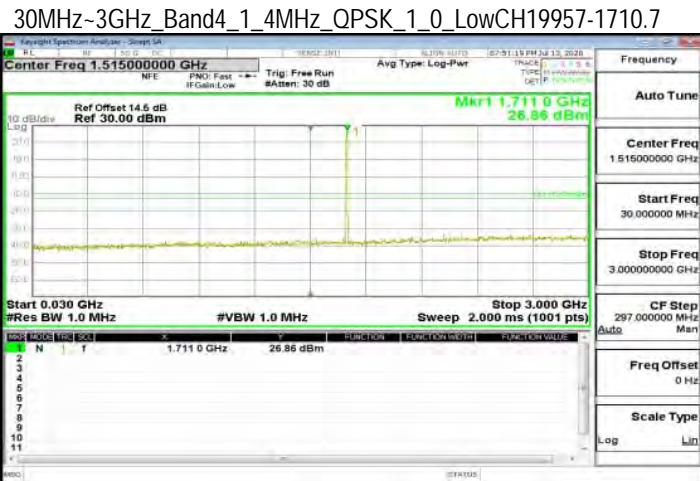
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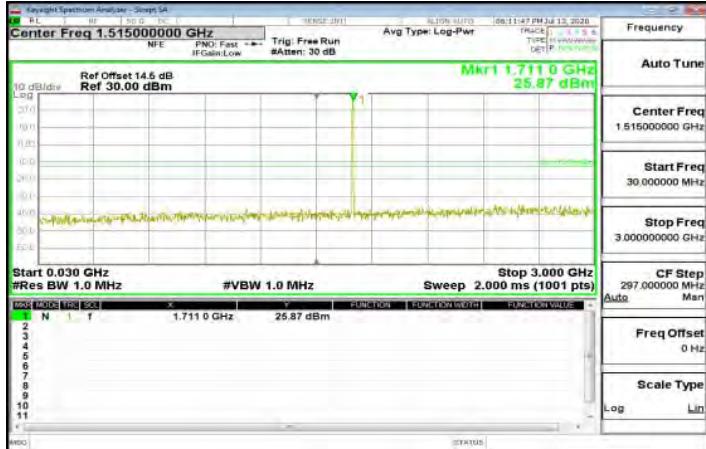


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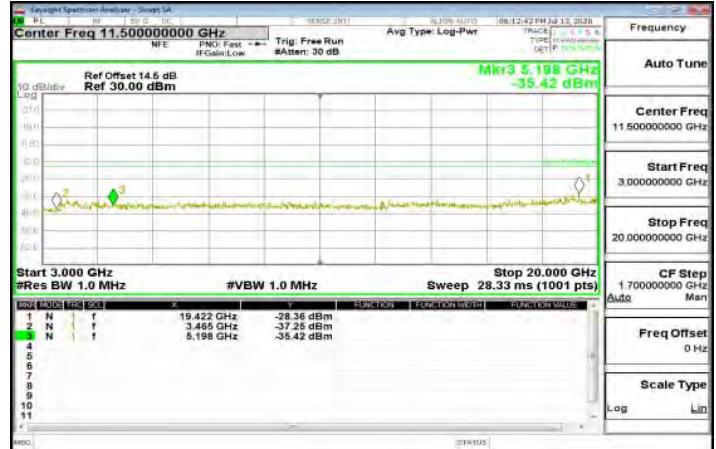
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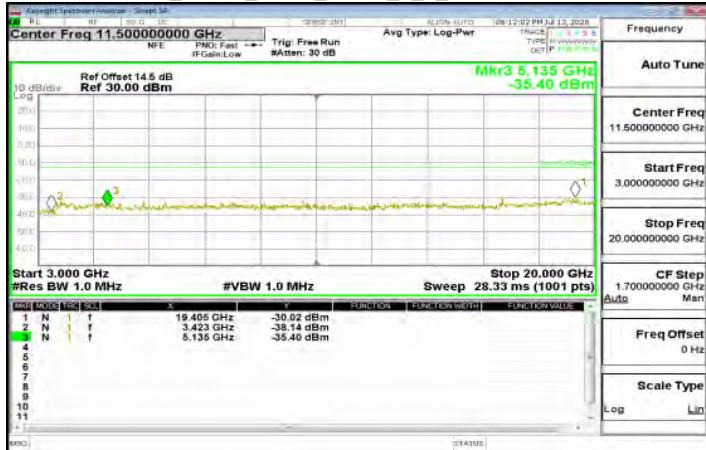
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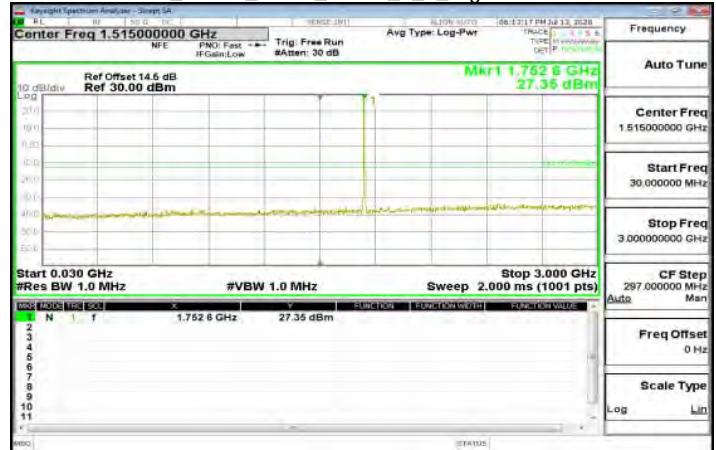
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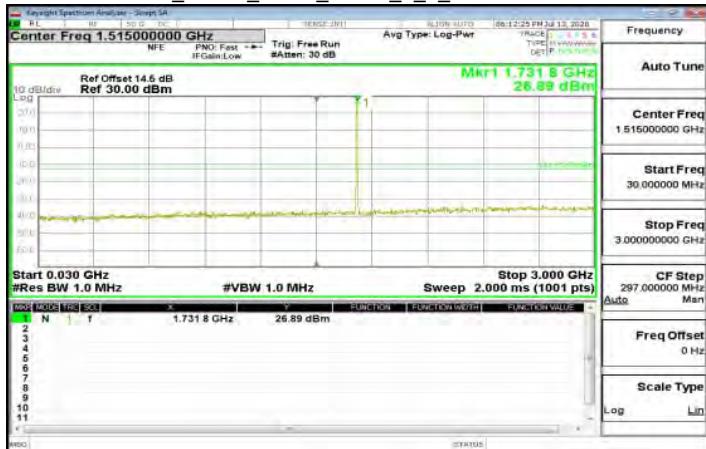
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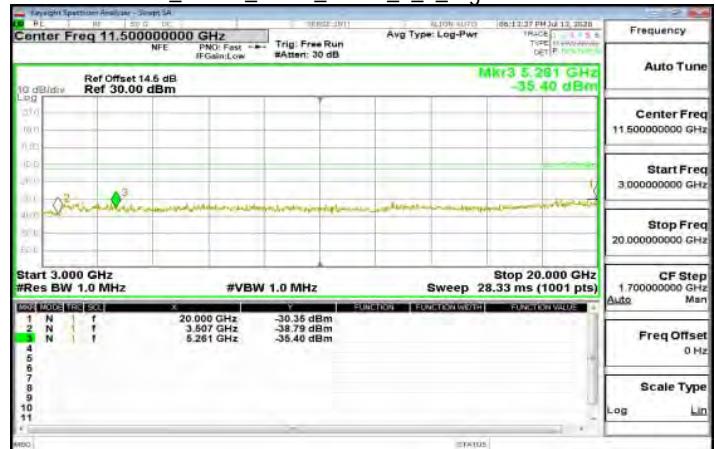
30MHz~3GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5



30MHz~3GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5



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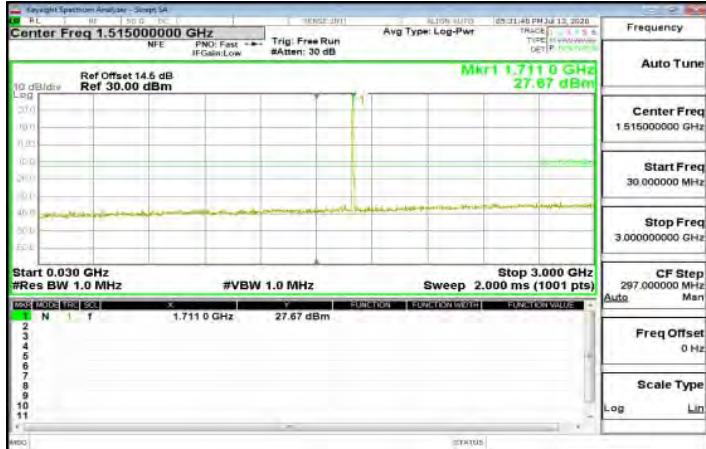


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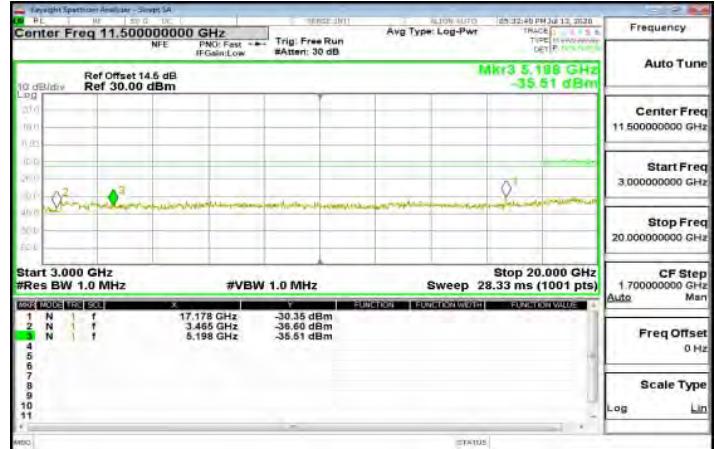
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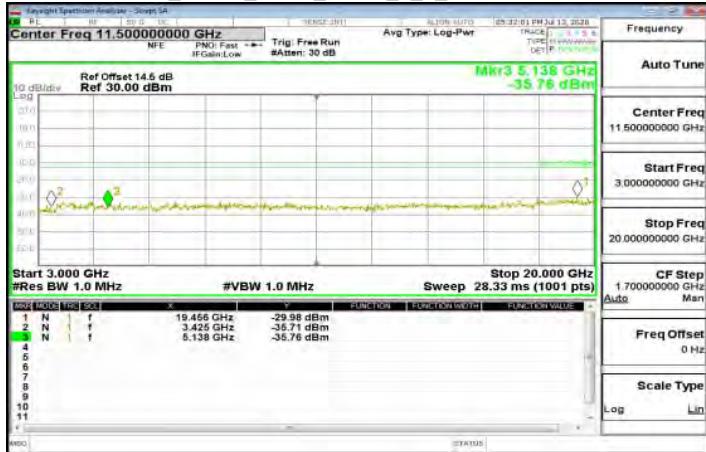
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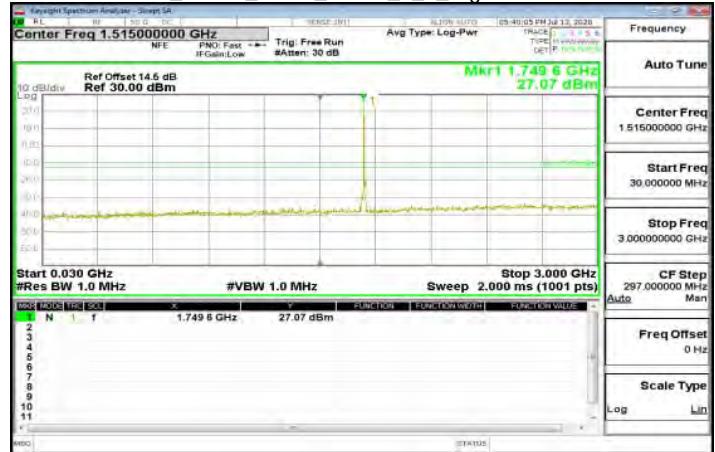
3GHz~10GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



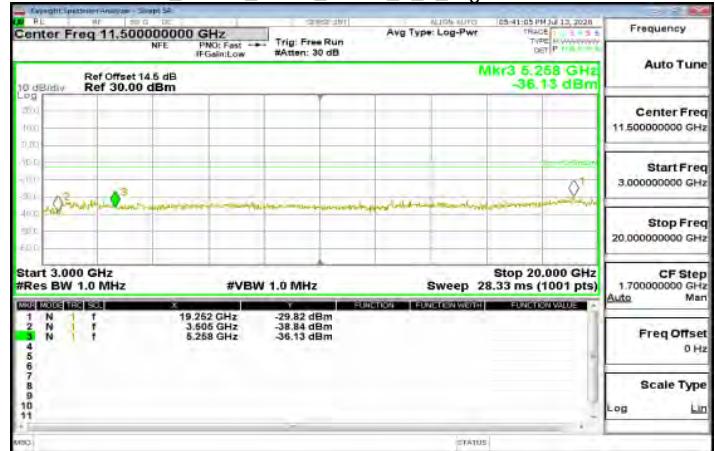
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30MHz~3GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

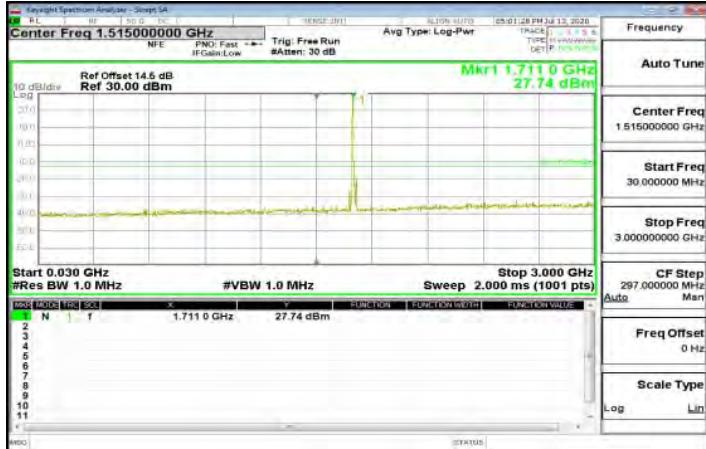


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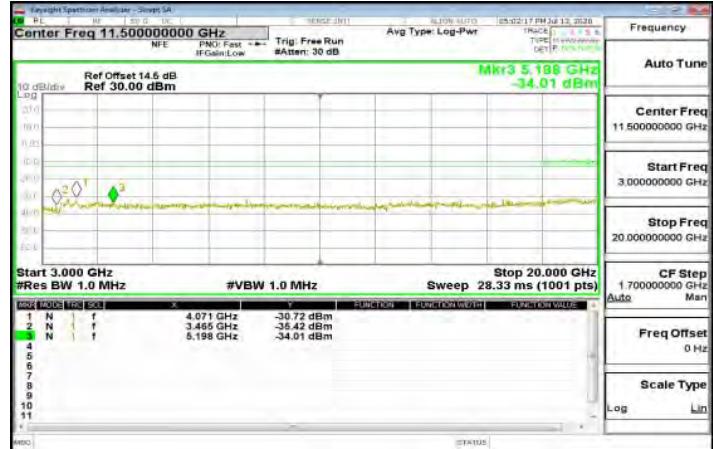
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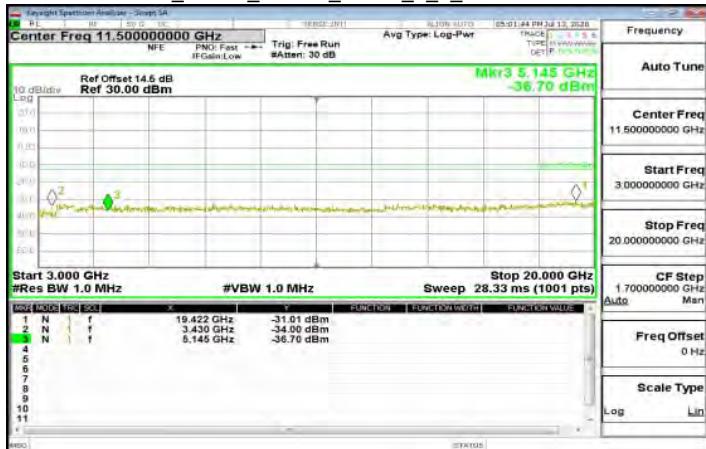
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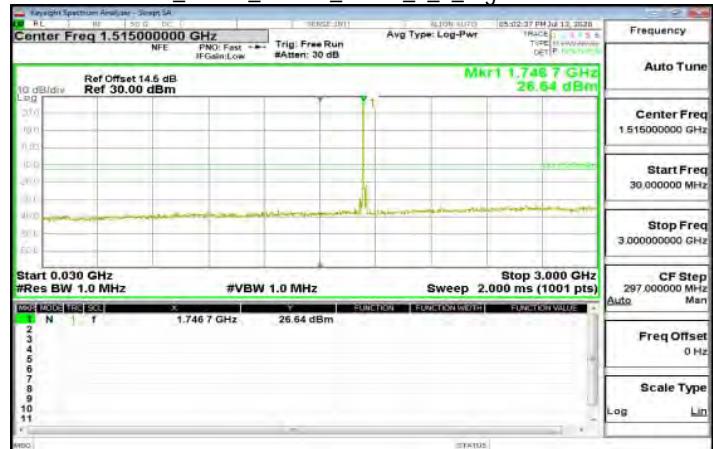
3GHz~10GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5



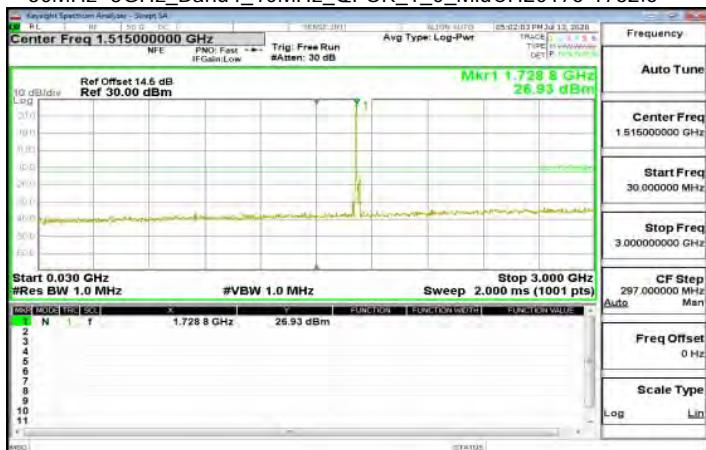
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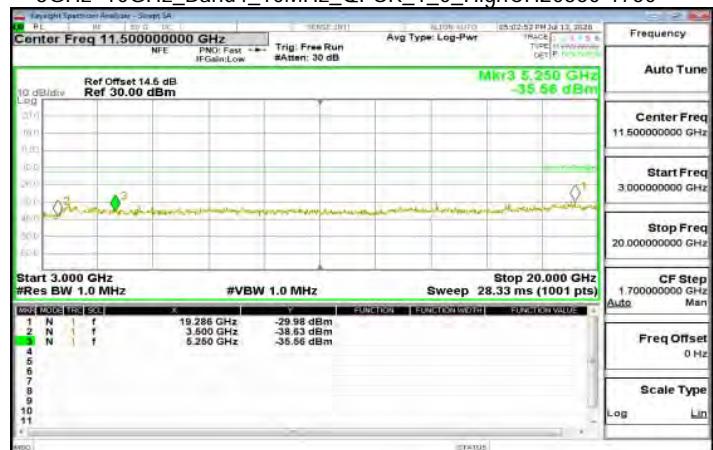
30MHz~3GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750



30MHz~3GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

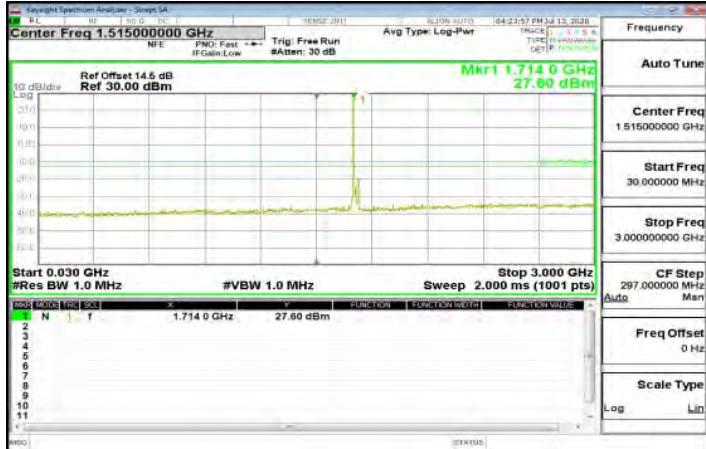


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30MHz~3GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



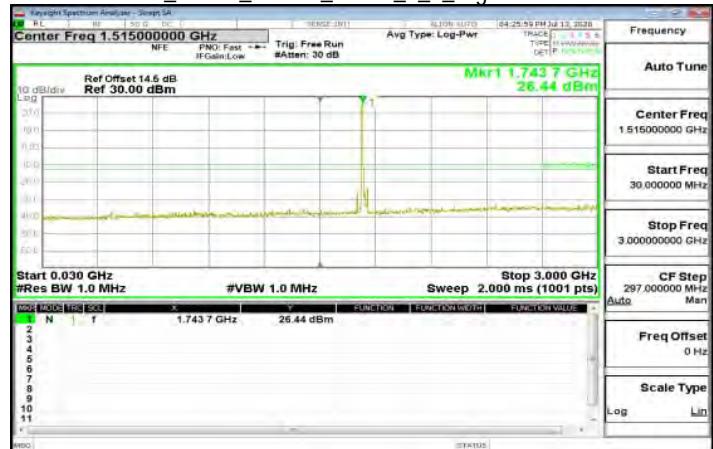
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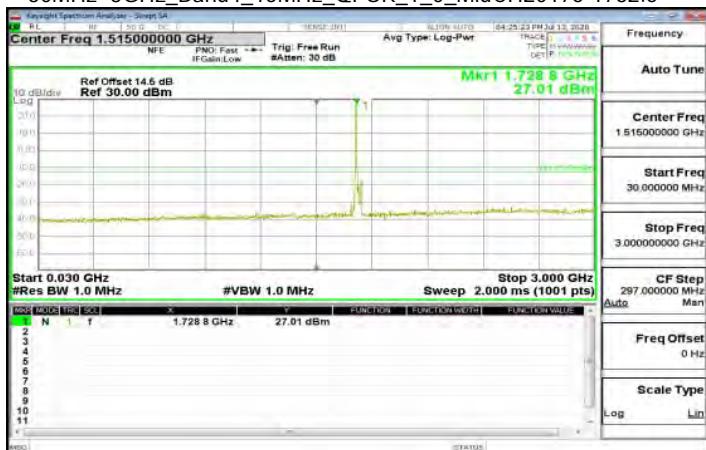
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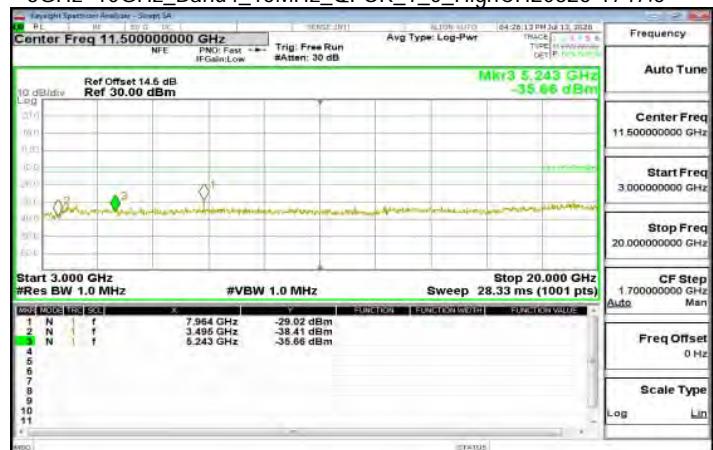
30MHz~3GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5



30MHz~3GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5



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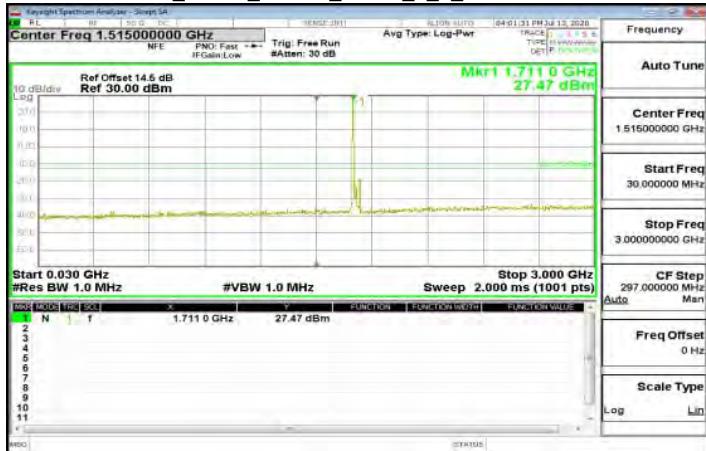
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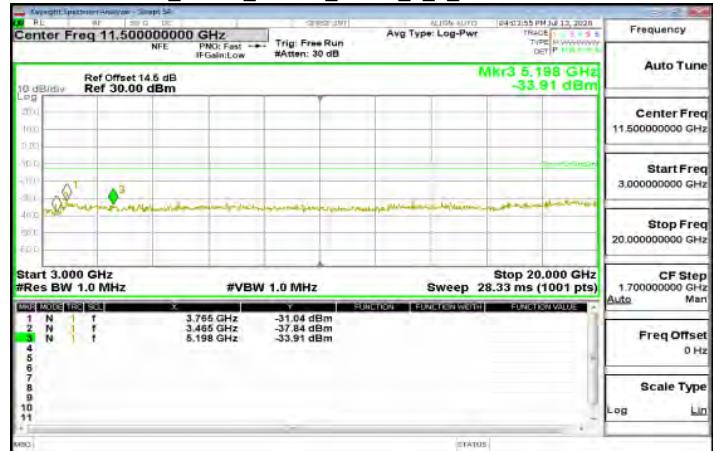
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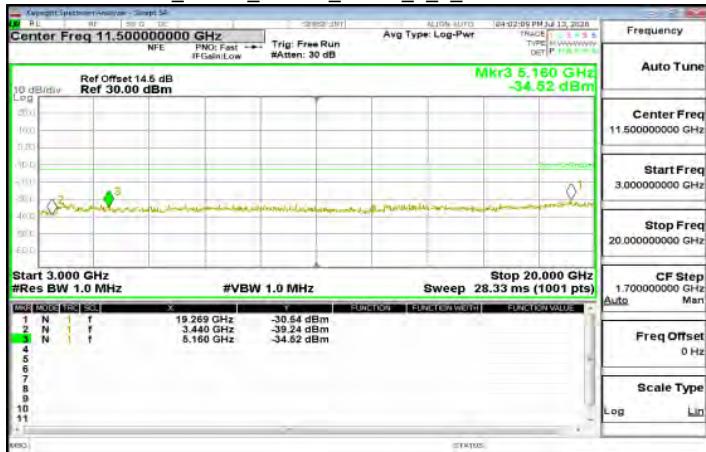
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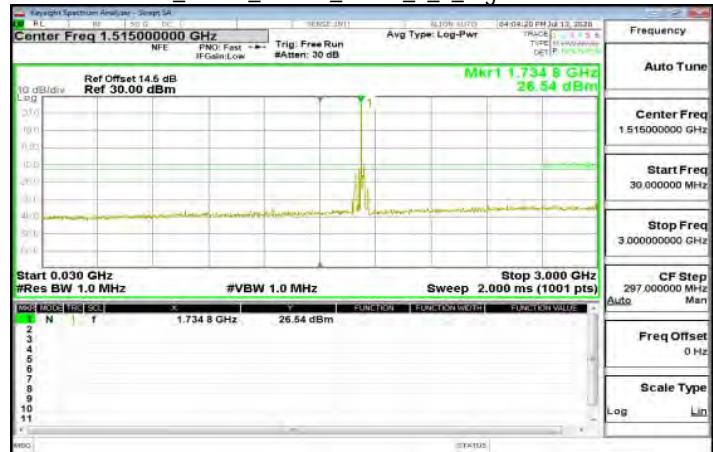
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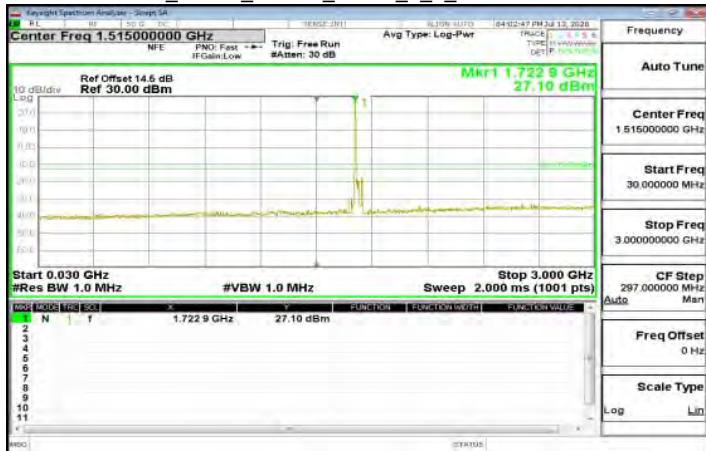
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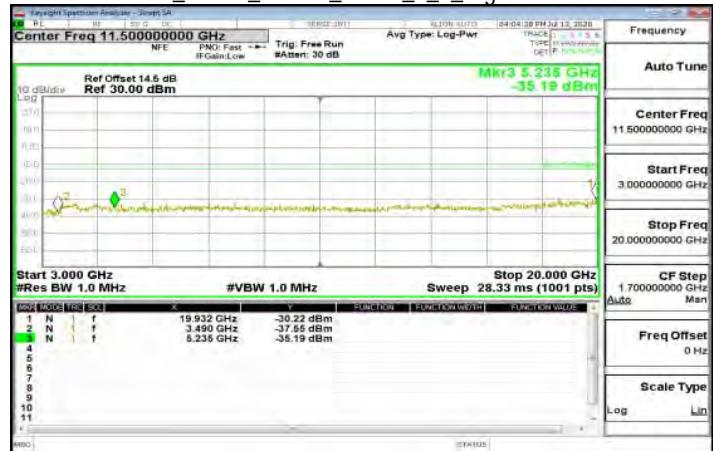
30MHz~3GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745



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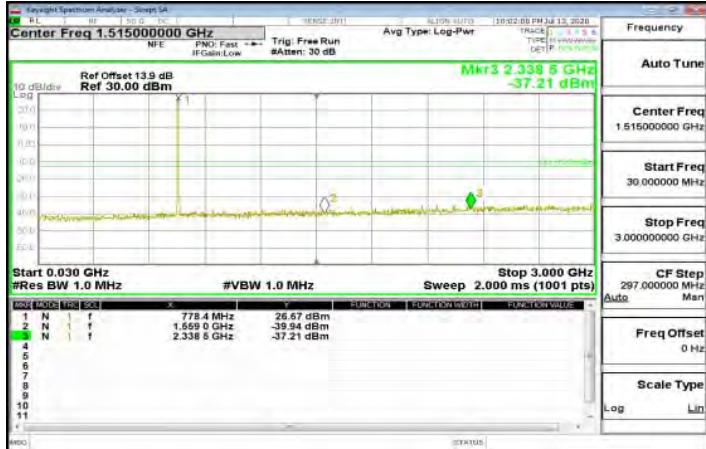


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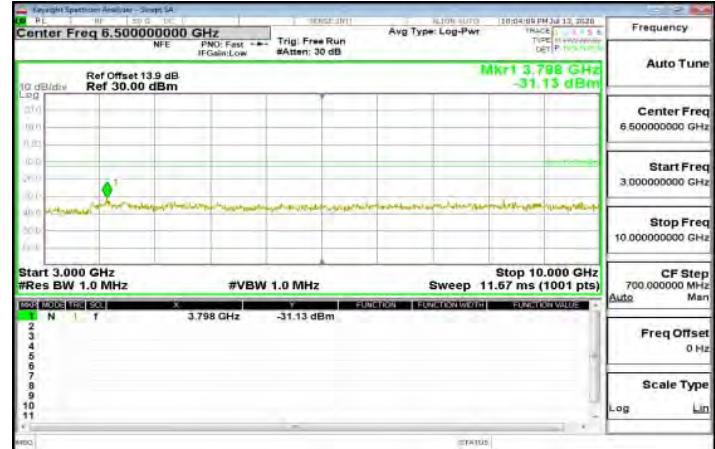
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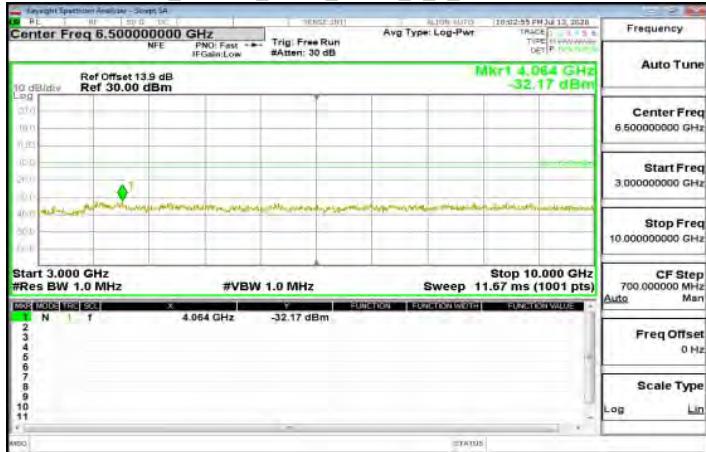
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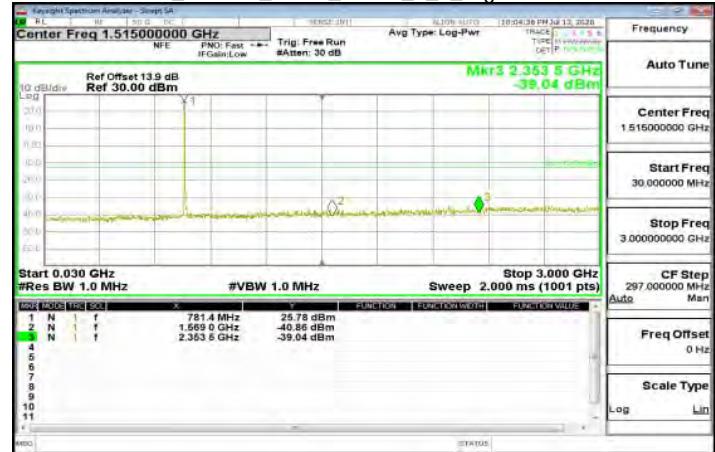
3GHz~10GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



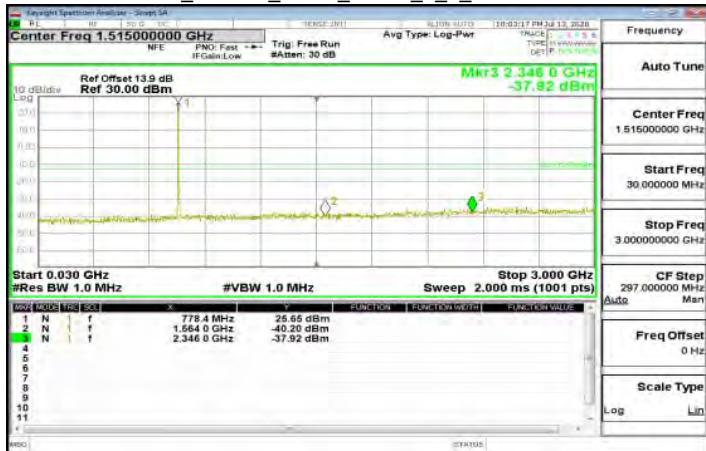
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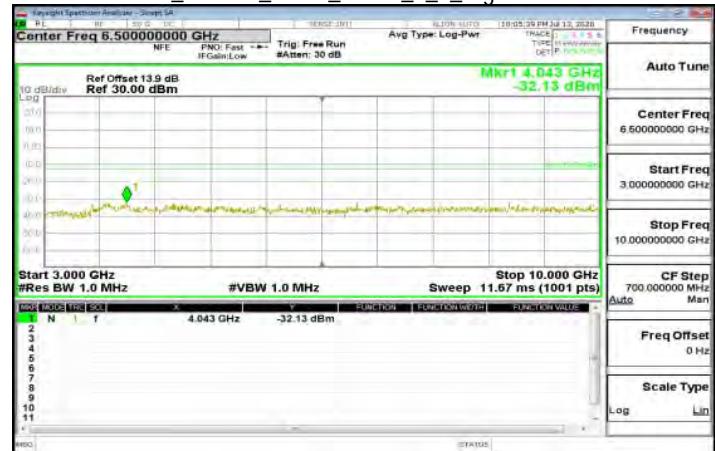
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30MHz~3GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



3GHz~10GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



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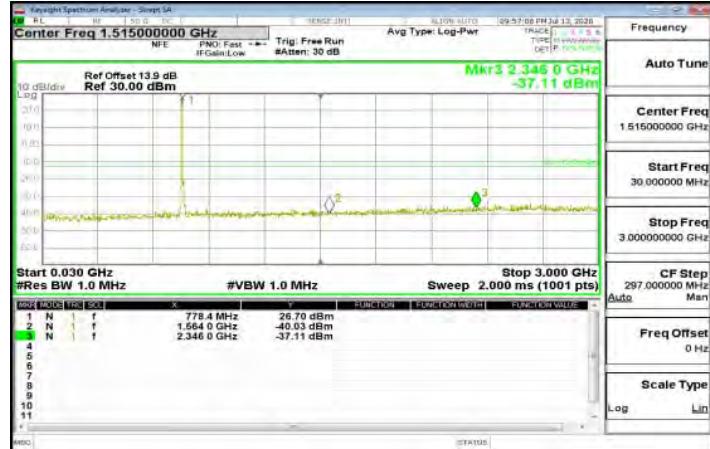
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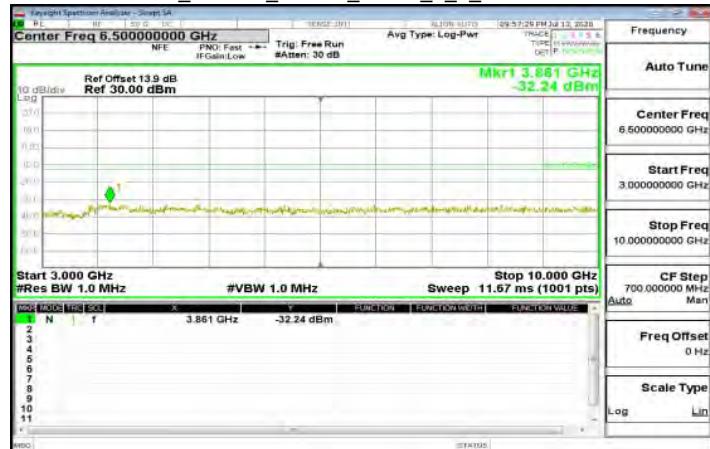
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Inband-2_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



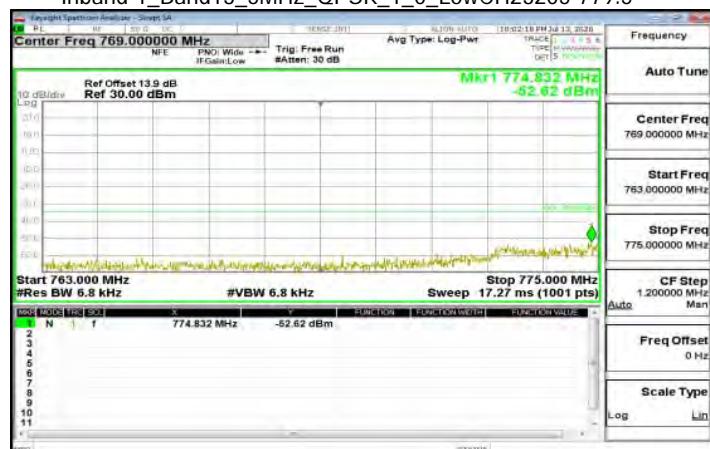
3GHz~10GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



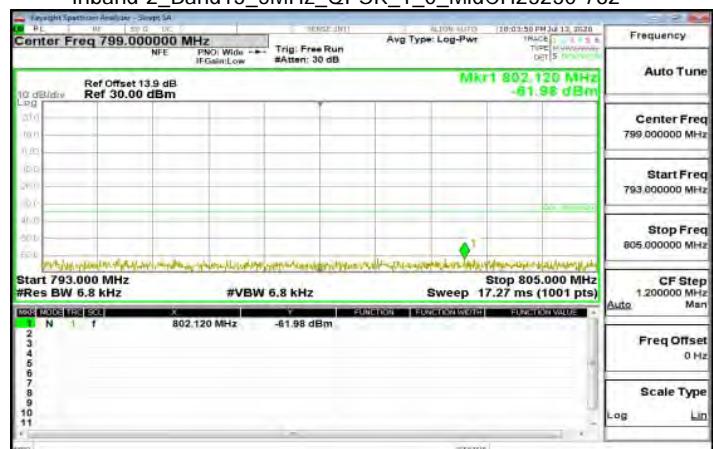
Inband-1_Band13_5MHz_QPSK_1_0_MidCH23230-782



Inband-1_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



Inband-2_Band13_5MHz_QPSK_1_0_MidCH23230-782



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Inband-1_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



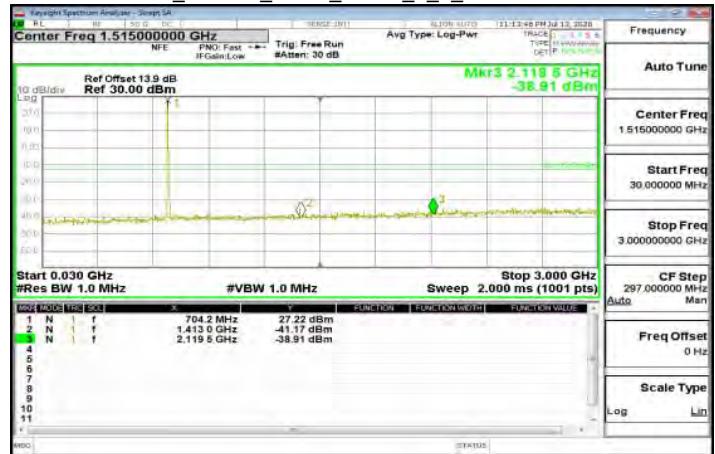
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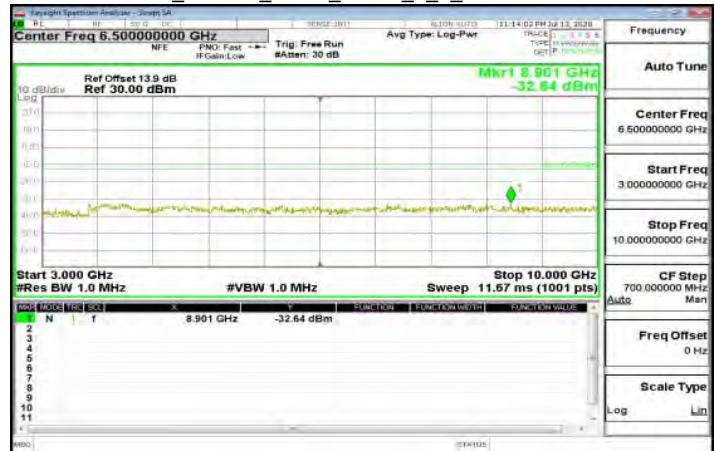
30MHz-3GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



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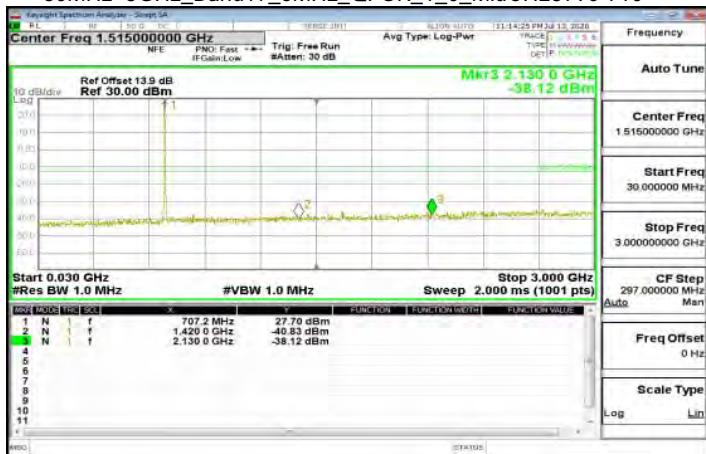


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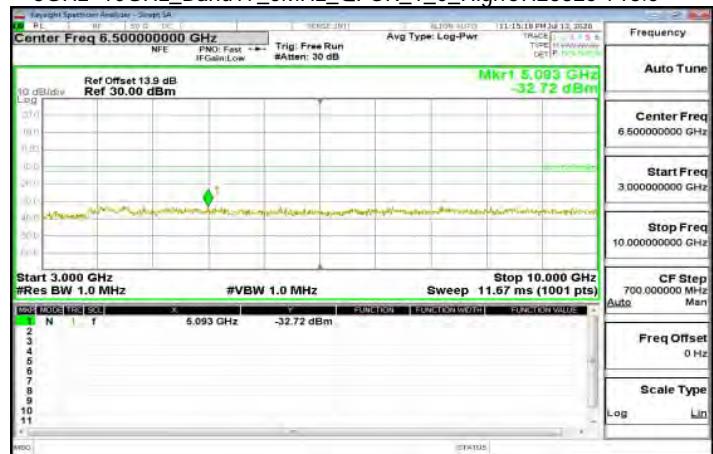
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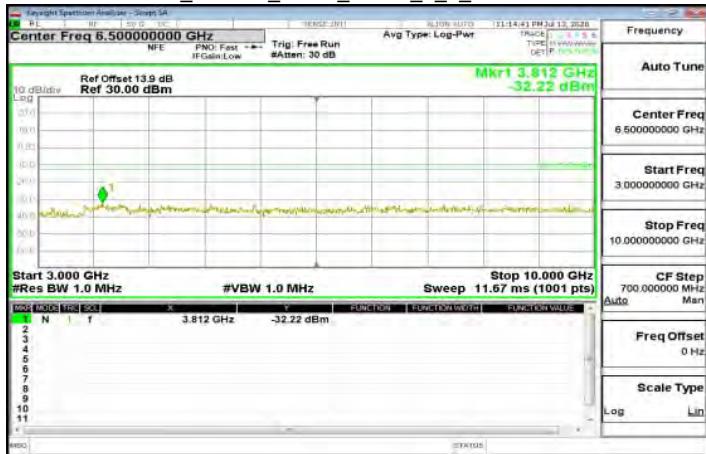
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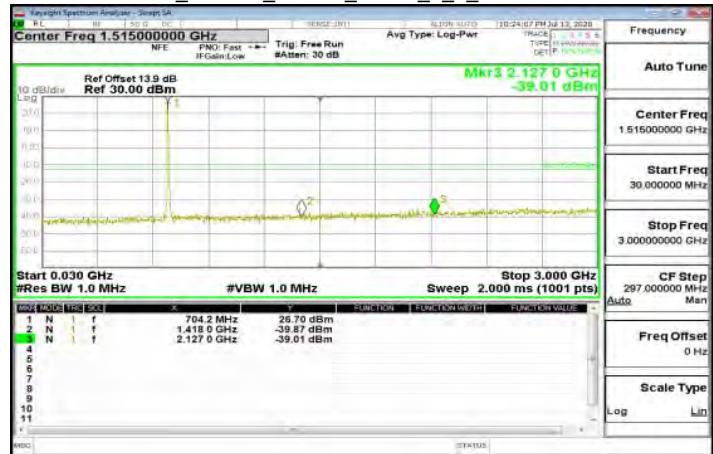
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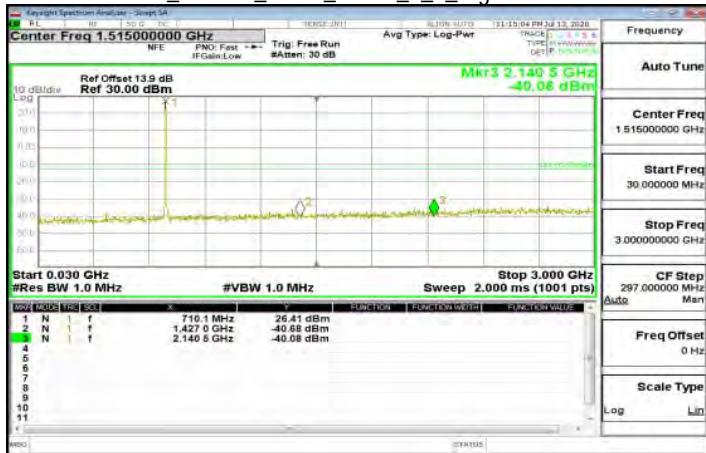
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30MHz~3GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



30MHz~3GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



3GHz~10GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



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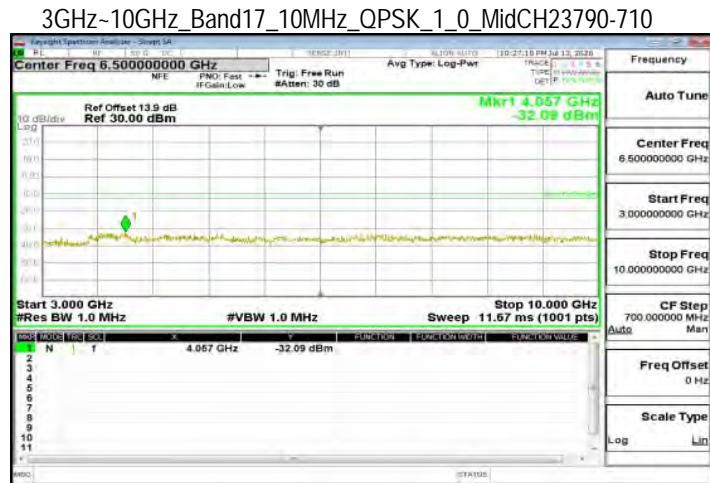
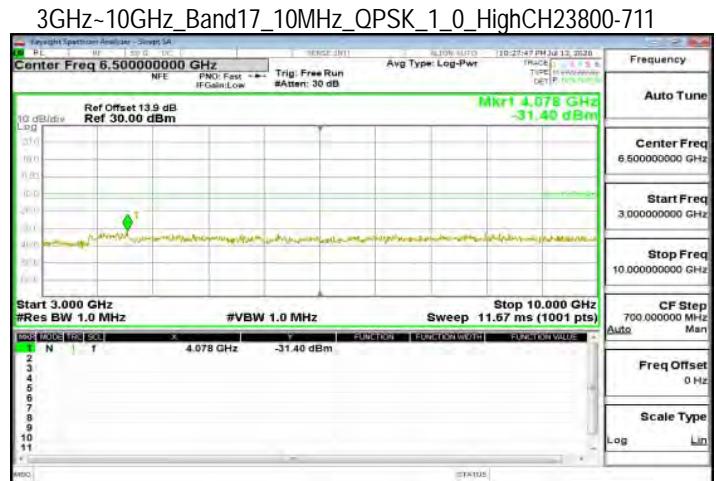
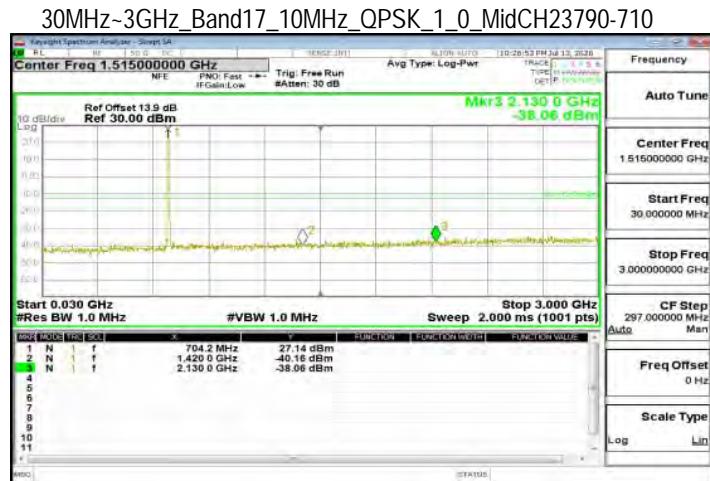
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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC§24.238(a), §27.53(h), §22.917(a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c) LTE B13

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

- (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;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (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;

FCC §27.53(h)(1) for LTE B4

(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §27.53(g) for LTE B17

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

- (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;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (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

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

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

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

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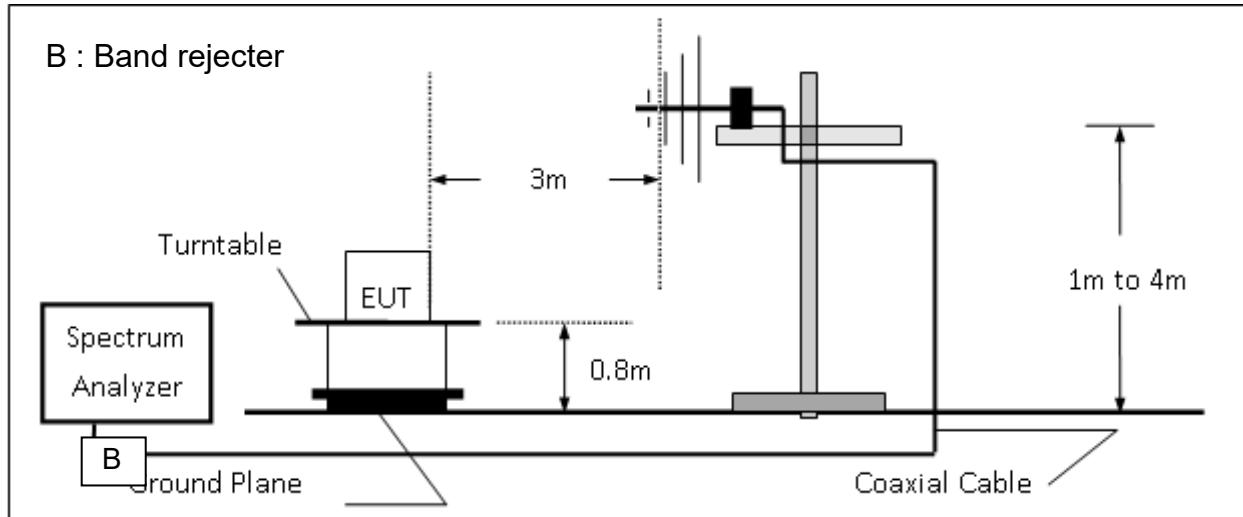
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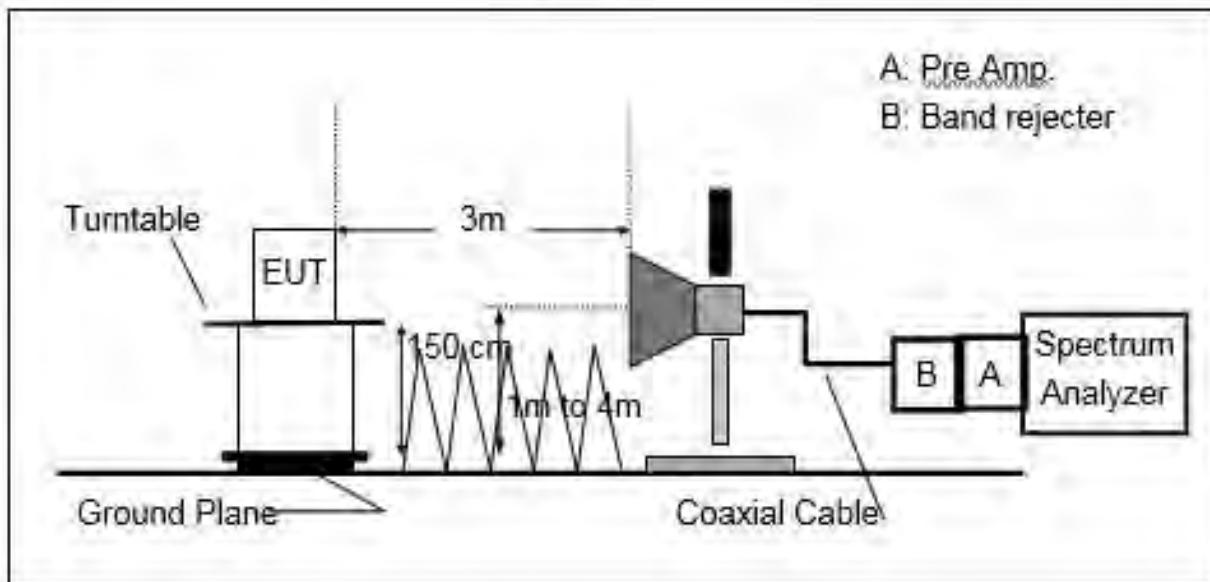
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz

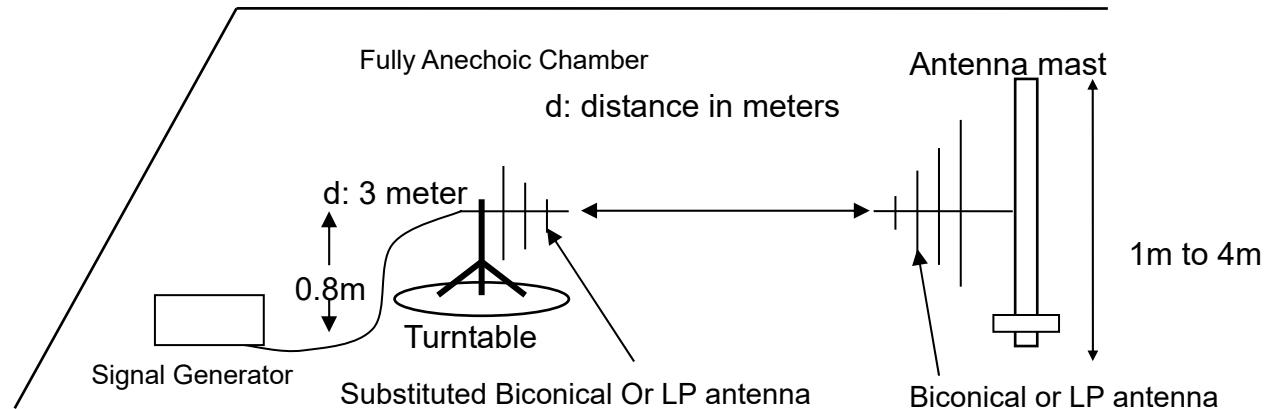


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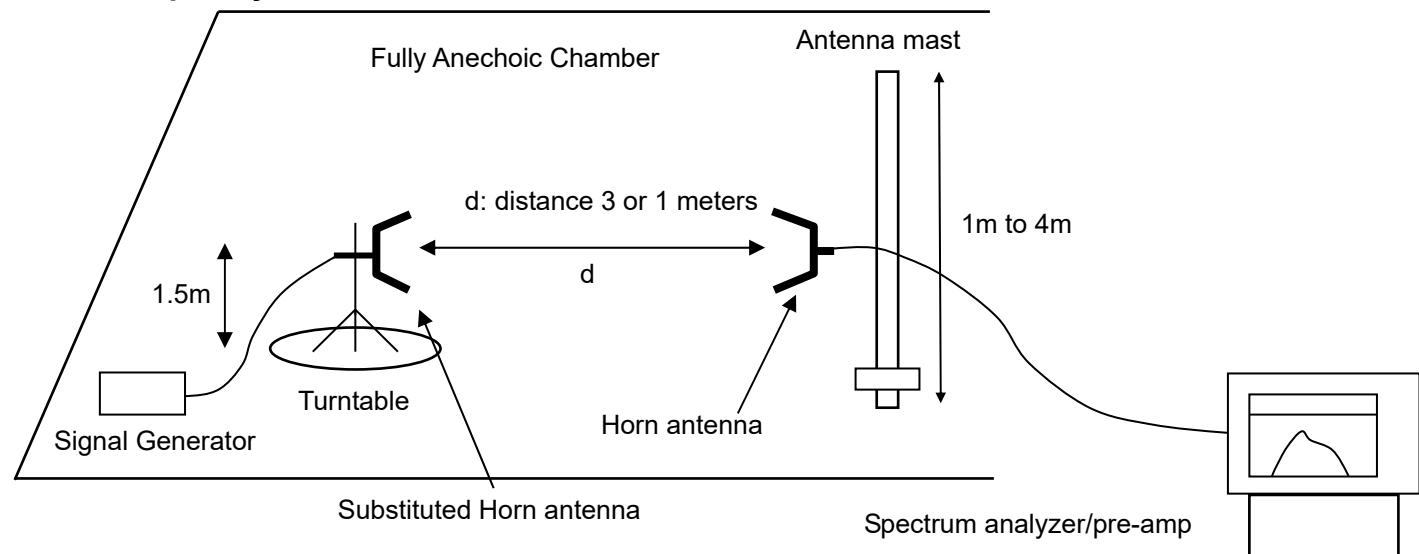
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Substitution Measurement
Frequency Below 1GHz



Step 3. Substitution Measurement
Frequency Above 1GHz



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9.3 Measurement Procedure:

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

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

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

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

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

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9.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/29/2020	04/28/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Signal Generator	Agilent	N5183A	MY50140591	12/20/2019	12/19/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 635-920	Micro-Tronics	WI	4	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10 SS	22	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2020	01/01/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required

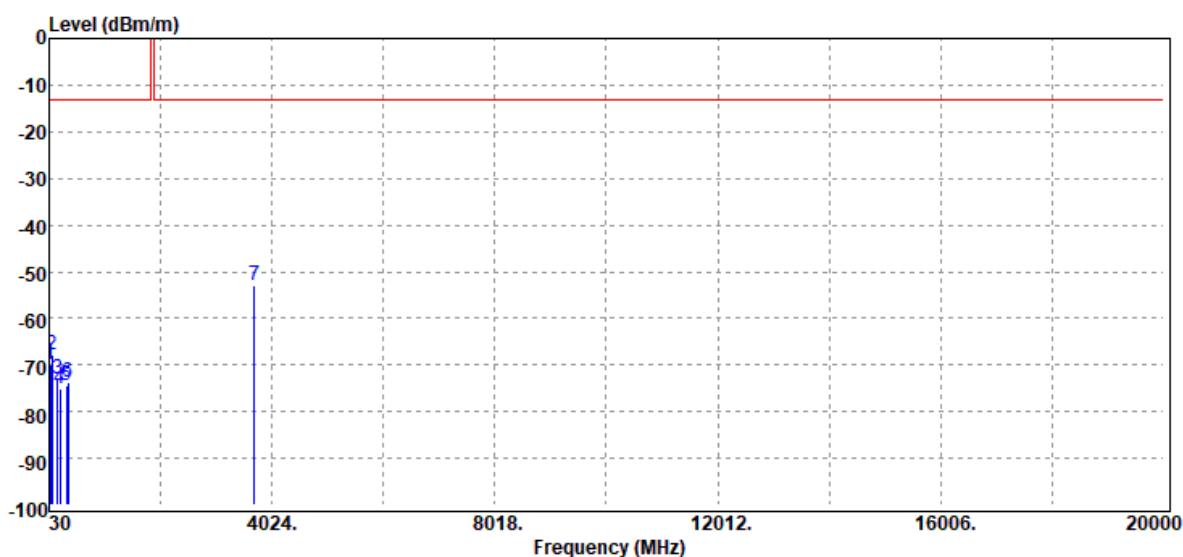
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9.5 Measurement Result:

Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1852.4 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-70.01	-58.95	-10.39	-0.67	-13.00	-57.01
76.56	-67.94	-60.50	-6.60	-0.84	-13.00	-54.94
182.29	-72.87	-70.03	-1.61	-1.23	-13.00	-59.87
225.94	-74.92	-72.38	-1.14	-1.40	-13.00	-61.92
343.31	-74.54	-71.34	-1.35	-1.85	-13.00	-61.54
369.50	-73.82	-70.70	-1.38	-1.74	-13.00	-60.82
3704.80	-52.79	-59.34	12.40	-5.85	-13.00	-39.79

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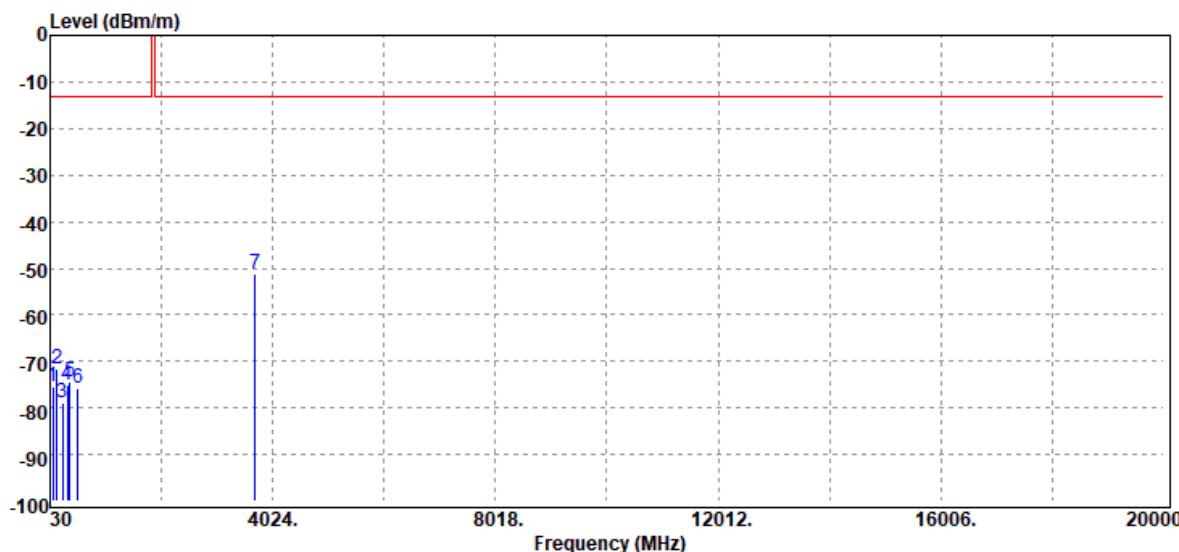
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1852.4 MHz	Engineer	:Nick



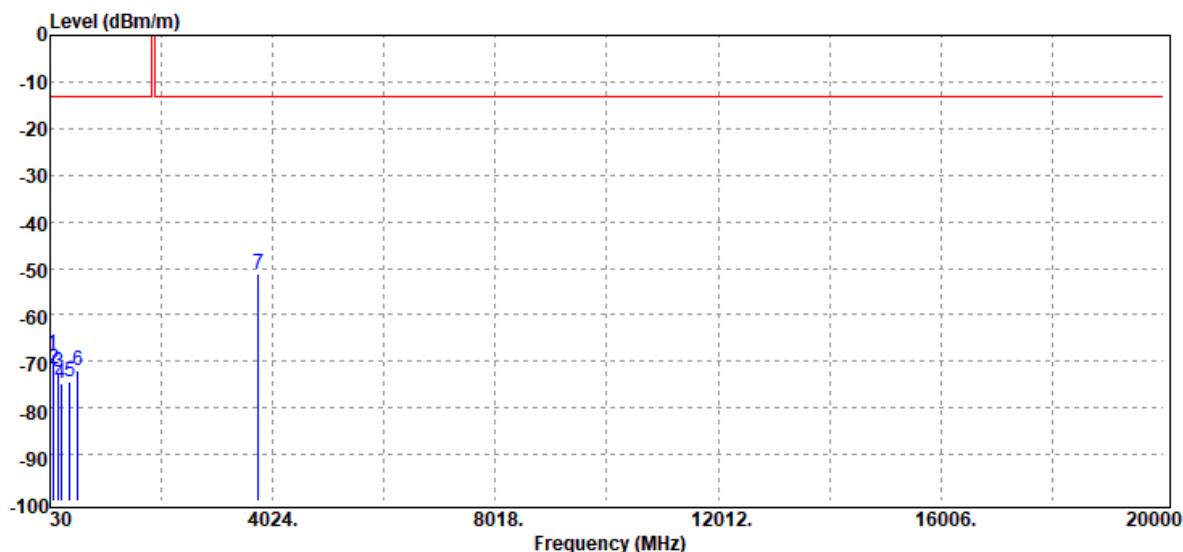
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
77.53	-75.44	-68.06	-6.54	-0.84	-13.00	-62.44
156.10	-71.60	-66.15	-4.24	-1.21	-13.00	-58.60
248.25	-78.83	-75.13	-2.19	-1.51	-13.00	-65.83
345.25	-75.25	-72.03	-1.37	-1.85	-13.00	-62.25
377.26	-74.52	-71.49	-1.24	-1.79	-13.00	-61.52
524.70	-75.90	-73.07	-0.83	-2.00	-13.00	-62.90
3704.80	-51.12	-57.67	12.40	-5.85	-13.00	-38.12

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Nick



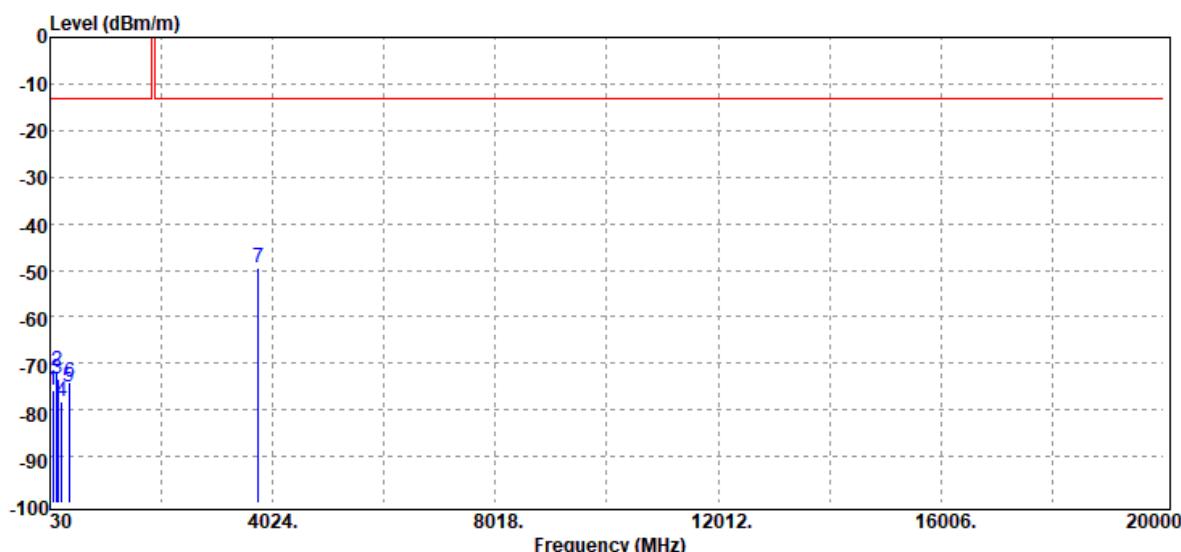
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-68.56	-61.12	-6.60	-0.84	-13.00	-55.56
94.99	-71.73	-62.93	-7.87	-0.93	-13.00	-58.73
182.29	-72.42	-69.58	-1.61	-1.23	-13.00	-59.42
221.09	-74.73	-72.36	-1.00	-1.37	-13.00	-61.73
377.26	-74.39	-71.36	-1.24	-1.79	-13.00	-61.39
532.46	-71.88	-69.13	-0.90	-1.85	-13.00	-58.88
3760.00	-51.15	-57.81	12.40	-5.74	-13.00	-38.15

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Nick



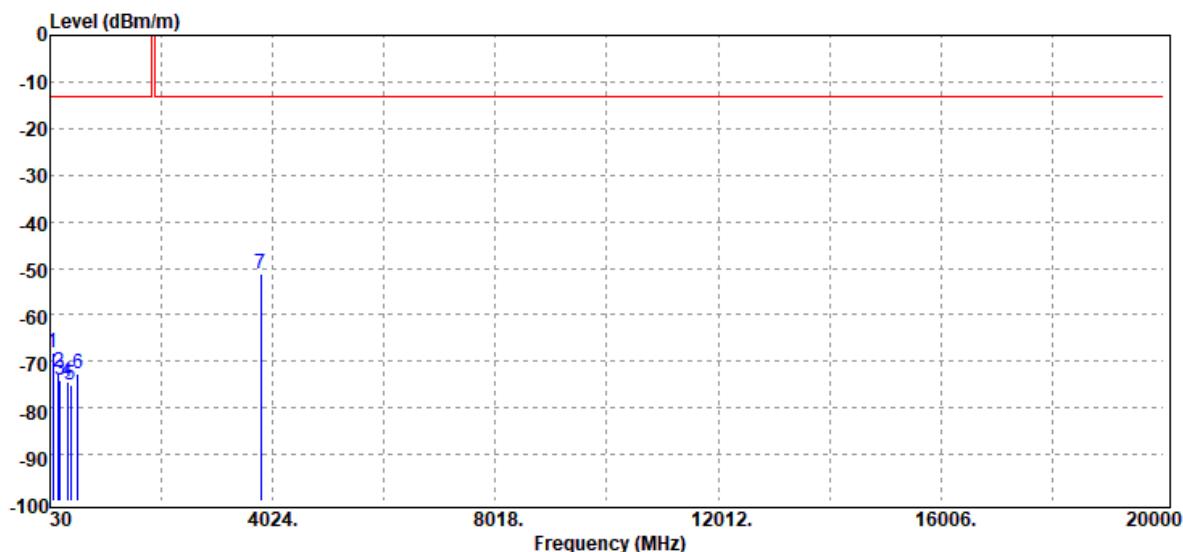
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
77.53	-75.63	-68.25	-6.54	-0.84	-13.00	-62.63
153.19	-71.75	-66.03	-4.50	-1.22	-13.00	-58.75
167.74	-73.27	-69.15	-2.86	-1.26	-13.00	-60.27
243.40	-78.26	-74.80	-1.97	-1.49	-13.00	-65.26
362.71	-75.22	-71.87	-1.64	-1.71	-13.00	-62.22
384.05	-74.21	-71.19	-1.22	-1.80	-13.00	-61.21
3760.00	-49.35	-56.01	12.40	-5.74	-13.00	-36.35

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1907.6 MHz	Engineer	:Nick



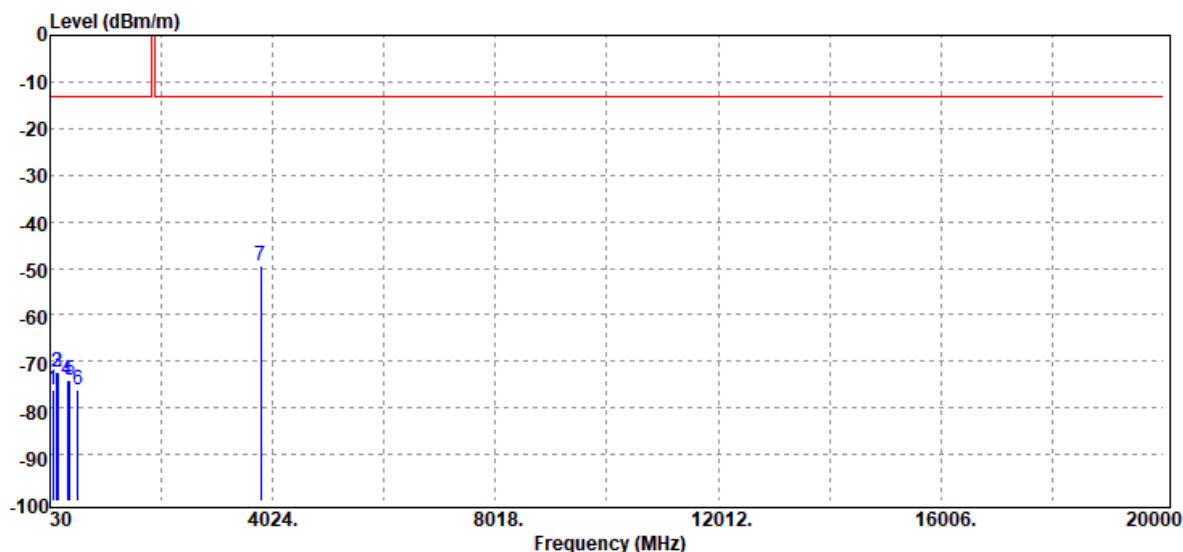
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-68.12	-60.68	-6.60	-0.84	-13.00	-55.12
180.35	-72.47	-69.54	-1.70	-1.23	-13.00	-59.47
216.24	-73.88	-71.53	-0.98	-1.37	-13.00	-60.88
337.49	-74.50	-71.42	-1.26	-1.82	-13.00	-61.50
391.81	-75.03	-71.85	-1.37	-1.81	-13.00	-62.03
524.70	-72.50	-69.67	-0.83	-2.00	-13.00	-59.50
3815.20	-51.08	-57.72	12.40	-5.76	-13.00	-38.08

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B2	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1907.6 MHz	Engineer	:Nick



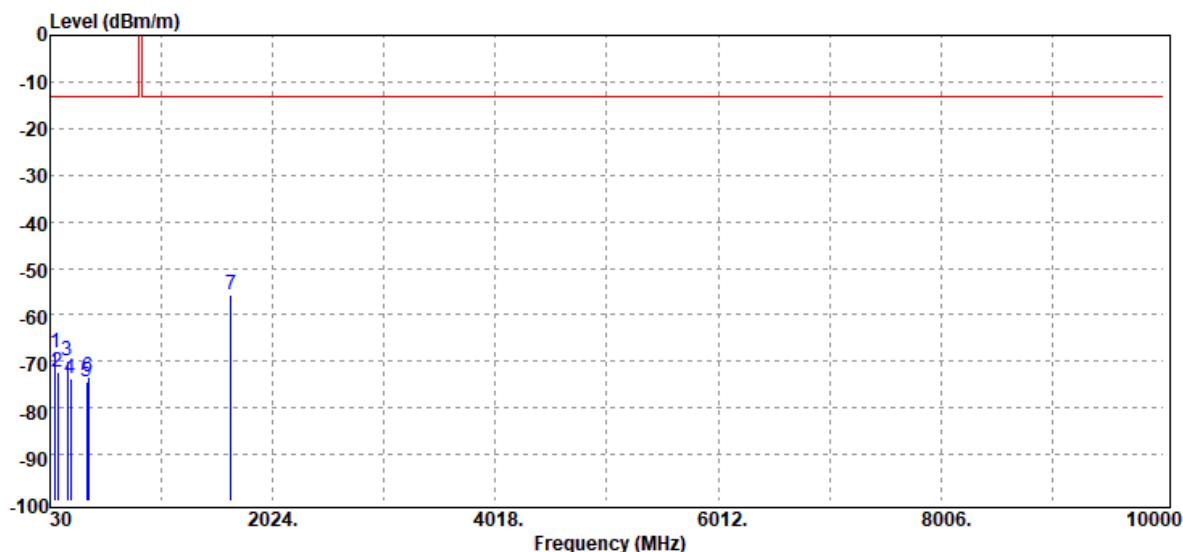
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-76.17	-68.73	-6.60	-0.84	-13.00	-63.17
154.16	-72.18	-66.59	-4.37	-1.22	-13.00	-59.18
167.74	-72.45	-68.33	-2.86	-1.26	-13.00	-59.45
347.19	-73.95	-70.71	-1.40	-1.84	-13.00	-60.95
390.84	-73.96	-70.82	-1.34	-1.80	-13.00	-60.96
524.70	-76.28	-73.45	-0.83	-2.00	-13.00	-63.28
3815.20	-49.31	-55.95	12.40	-5.76	-13.00	-36.31

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B5	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:826.4 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-68.33	-60.89	-6.60	-0.84	-13.00	-55.33
94.99	-72.28	-63.48	-7.87	-0.93	-13.00	-59.28
182.29	-69.92	-67.08	-1.61	-1.23	-13.00	-56.92
216.24	-73.57	-71.22	-0.98	-1.37	-13.00	-60.57
361.74	-74.42	-71.05	-1.66	-1.71	-13.00	-61.42
374.35	-73.44	-70.41	-1.26	-1.77	-13.00	-60.44
1652.80	-55.71	-61.75	9.91	-3.87	-13.00	-42.71

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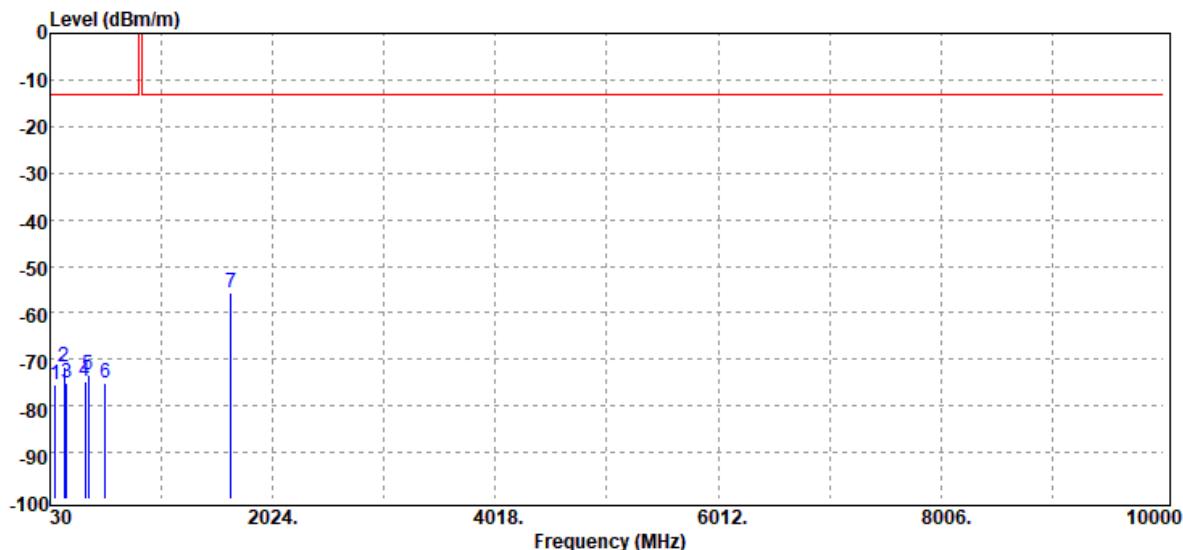
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Member of SGS Group

Report Number :ER-2020-50090
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :826.4 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-26
 Temp./Humi. :23.5/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



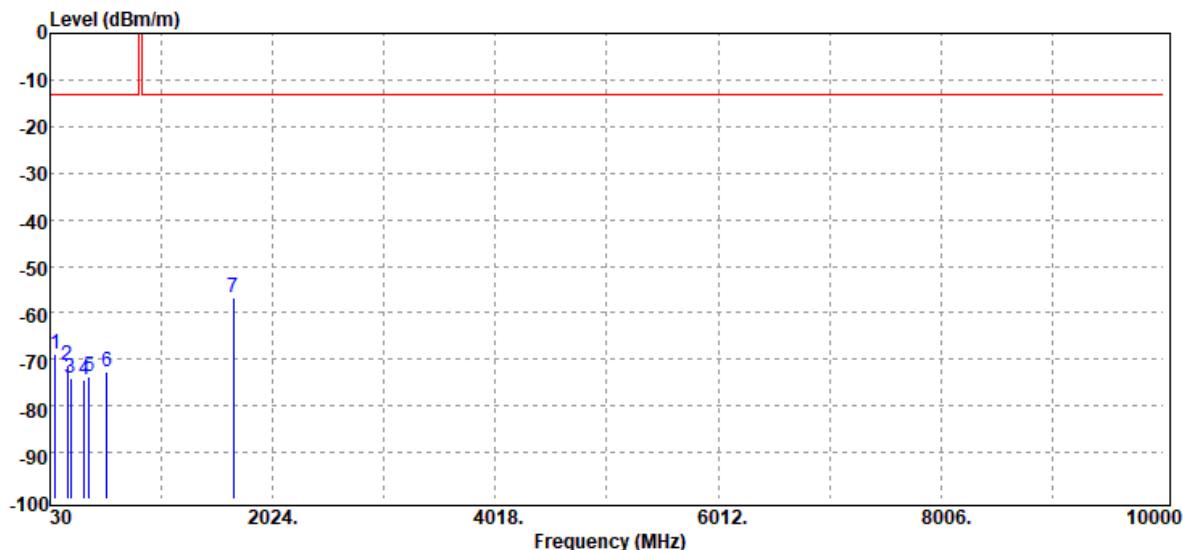
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.48	-68.04	-6.60	-0.84	-13.00	-62.48
153.19	-71.69	-65.97	-4.50	-1.22	-13.00	-58.69
178.41	-74.97	-71.94	-1.80	-1.23	-13.00	-61.97
347.19	-74.62	-71.38	-1.40	-1.84	-13.00	-61.62
374.35	-73.40	-70.37	-1.26	-1.77	-13.00	-60.40
527.61	-75.17	-72.43	-0.83	-1.91	-13.00	-62.17
1652.80	-55.73	-61.77	9.91	-3.87	-13.00	-42.73

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Report Number :ER-2020-50090 Test Site :SAC III Chamber
Operation Mode :WCDMA B5 Test Date :2020-09-26
Test Mode :Tx CH Mid Temp./Humi. :23.5/62
EUT Pol :H Plane Antenna Pol. :VERTICAL
Test Frequency :836.6 MHz Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-68.73	-61.29	-6.60	-0.84	-13.00	-55.73
182.29	-71.24	-68.40	-1.61	-1.23	-13.00	-58.24
216.24	-73.96	-71.61	-0.98	-1.37	-13.00	-60.96
335.55	-74.56	-71.54	-1.23	-1.79	-13.00	-61.56
382.11	-73.64	-70.60	-1.23	-1.81	-13.00	-60.64
536.34	-72.71	-69.83	-0.99	-1.89	-13.00	-59.71
1673.20	-56.85	-62.90	9.95	-3.90	-13.00	-43.85

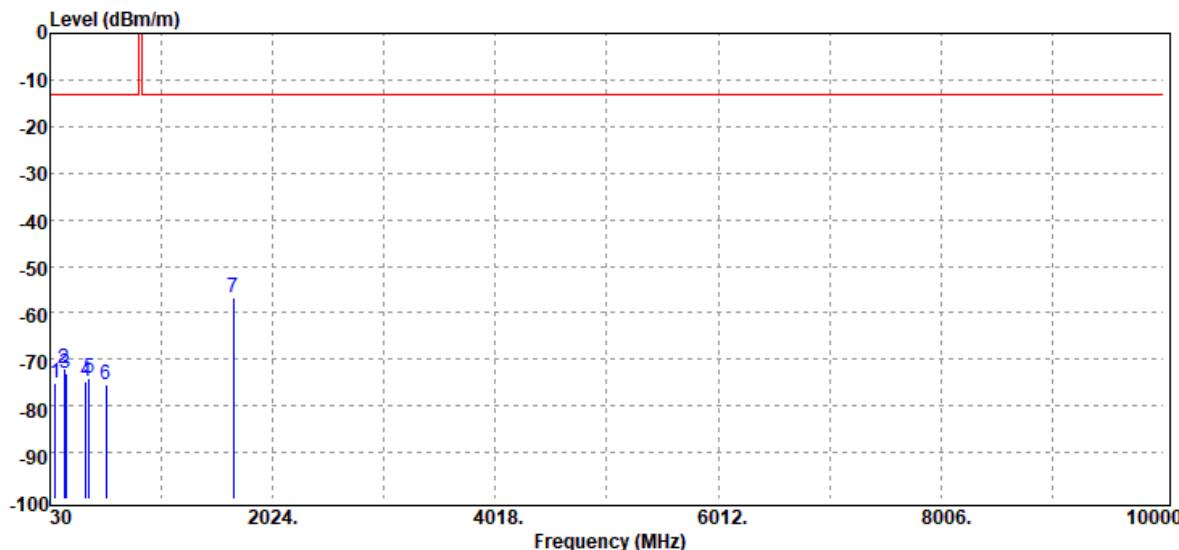
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Report Number :ER-2020-50090
 Operation Mode :WCDMA B5
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.6 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-26
 Temp./Humi. :23.5/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



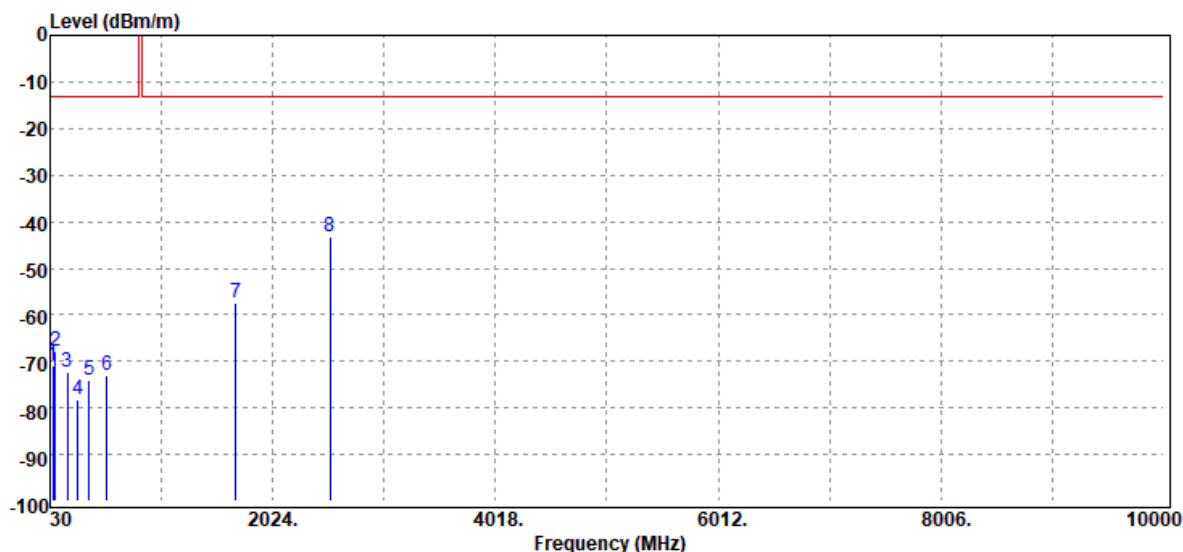
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.04	-67.60	-6.60	-0.84	-13.00	-62.04
153.19	-72.08	-66.36	-4.50	-1.22	-13.00	-59.08
167.74	-73.15	-69.03	-2.86	-1.26	-13.00	-60.15
348.16	-74.71	-71.45	-1.42	-1.84	-13.00	-61.71
377.26	-74.19	-71.16	-1.24	-1.79	-13.00	-61.19
529.55	-75.30	-72.62	-0.84	-1.84	-13.00	-62.30
1673.20	-56.66	-62.71	9.95	-3.90	-13.00	-43.66

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B5	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:846.6 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-70.81	-60.42	-9.70	-0.69	-13.00	-57.81
76.56	-67.93	-60.49	-6.60	-0.84	-13.00	-54.93
183.26	-72.36	-69.55	-1.57	-1.24	-13.00	-59.36
275.41	-78.29	-75.02	-1.73	-1.54	-13.00	-65.29
381.14	-74.01	-70.97	-1.23	-1.81	-13.00	-61.01
536.34	-72.86	-69.98	-0.99	-1.89	-13.00	-59.86
1693.20	-57.29	-63.36	9.99	-3.92	-13.00	-44.29
2539.80	-43.12	-49.13	10.86	-4.85	-13.00	-30.12

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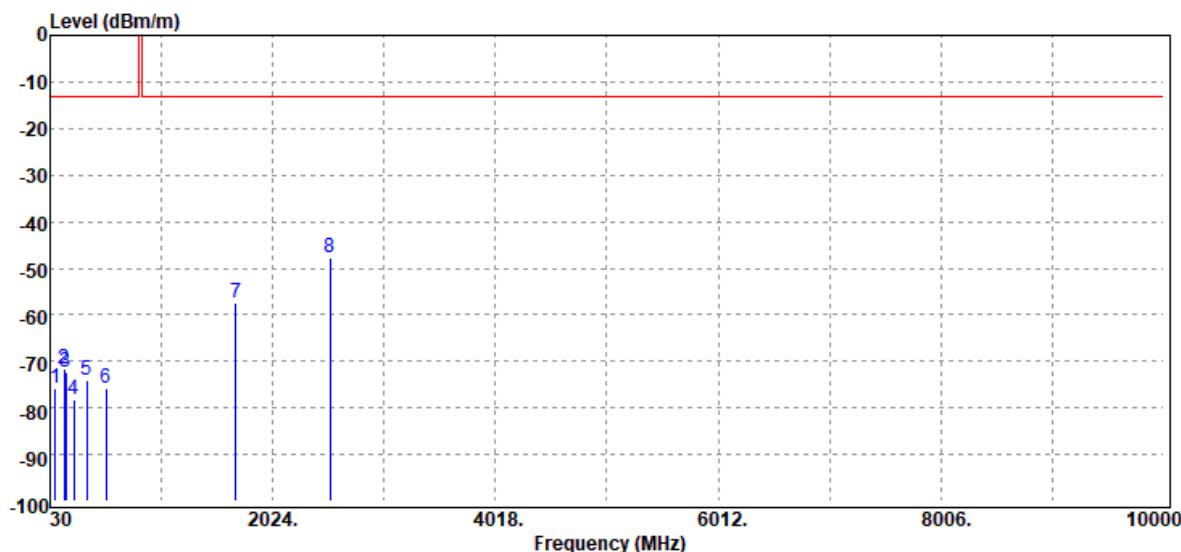
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:WCDMA B5	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:846.6 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.82	-68.38	-6.60	-0.84	-13.00	-62.82
153.19	-71.71	-65.99	-4.50	-1.22	-13.00	-58.71
167.74	-72.49	-68.37	-2.86	-1.26	-13.00	-59.49
245.34	-78.16	-74.60	-2.06	-1.50	-13.00	-65.16
361.74	-74.11	-70.74	-1.66	-1.71	-13.00	-61.11
534.40	-75.82	-73.00	-0.95	-1.87	-13.00	-62.82
1693.20	-57.34	-63.41	9.99	-3.92	-13.00	-44.34
2539.80	-47.88	-53.89	10.86	-4.85	-13.00	-34.88

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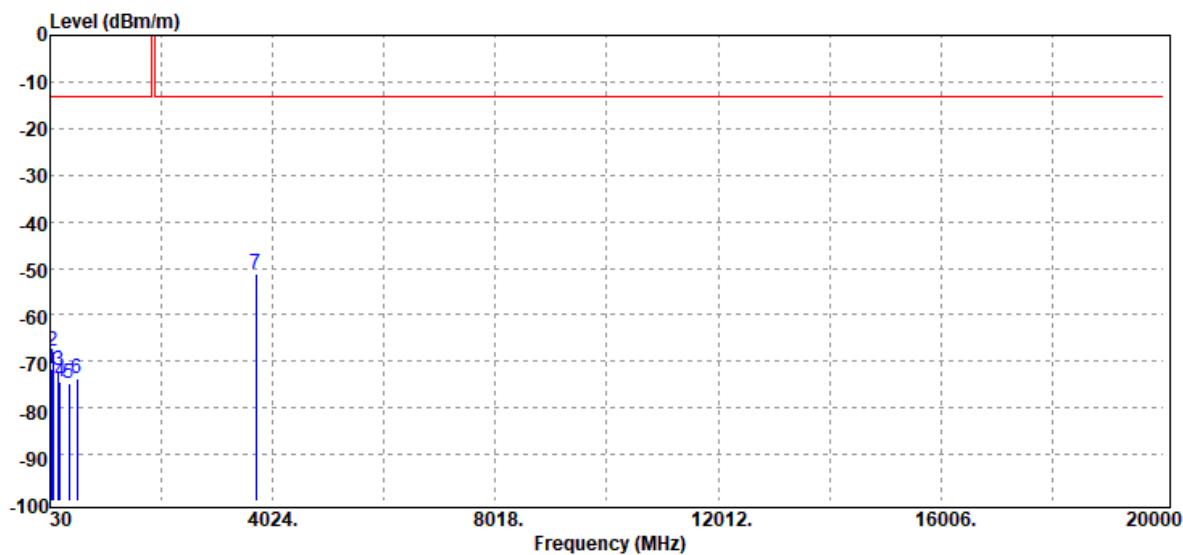
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1860 MHz	Engineer	:Nick



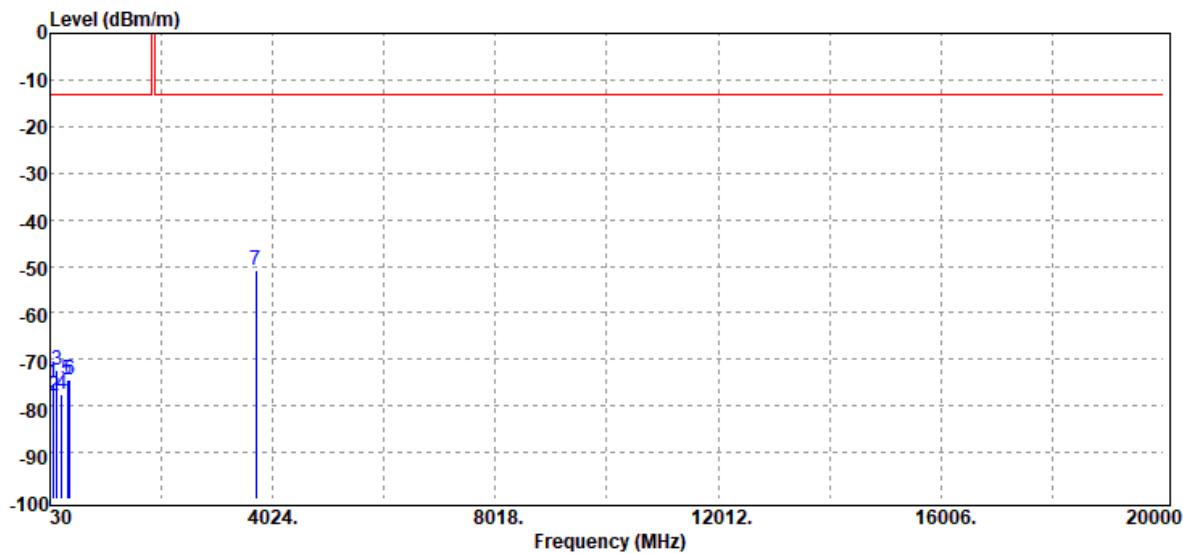
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-71.78	-61.06	-10.04	-0.68	-13.00	-58.78
76.56	-67.73	-60.29	-6.60	-0.84	-13.00	-54.73
182.29	-71.98	-69.14	-1.61	-1.23	-13.00	-58.98
216.24	-74.48	-72.13	-0.98	-1.37	-13.00	-61.48
372.41	-74.81	-71.74	-1.31	-1.76	-13.00	-61.81
519.85	-73.64	-70.57	-0.91	-2.16	-13.00	-60.64
3720.00	-51.23	-57.81	12.40	-5.82	-13.00	-38.23

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1860 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.02	-67.58	-6.60	-0.84	-13.00	-62.02
97.90	-77.86	-68.73	-8.19	-0.94	-13.00	-64.86
153.19	-72.21	-66.49	-4.50	-1.22	-13.00	-59.21
245.34	-77.63	-74.07	-2.06	-1.50	-13.00	-64.63
340.40	-74.31	-71.15	-1.30	-1.86	-13.00	-61.31
379.20	-74.36	-71.33	-1.23	-1.80	-13.00	-61.36
3720.00	-50.99	-57.57	12.40	-5.82	-13.00	-37.99

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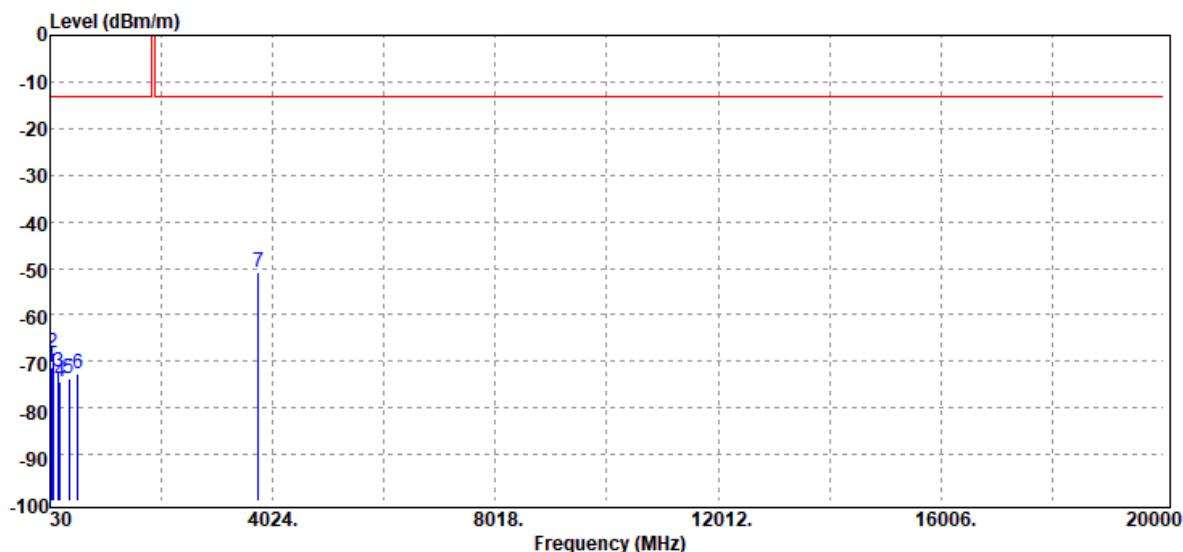
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz	Engineer	:Nick



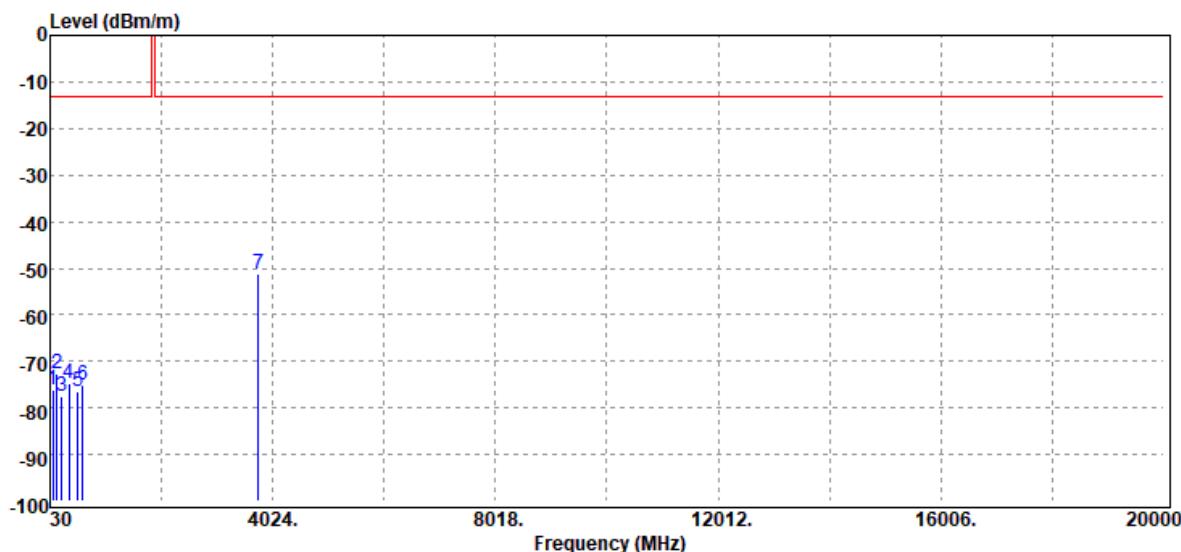
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-71.37	-60.98	-9.70	-0.69	-13.00	-58.37
76.56	-68.10	-60.66	-6.60	-0.84	-13.00	-55.10
182.29	-72.23	-69.39	-1.61	-1.23	-13.00	-59.23
214.30	-74.46	-72.06	-1.03	-1.37	-13.00	-61.46
372.41	-73.73	-70.66	-1.31	-1.76	-13.00	-60.73
527.61	-72.60	-69.86	-0.83	-1.91	-13.00	-59.60
3760.00	-51.04	-57.70	12.40	-5.74	-13.00	-38.04

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz	Engineer	:Nick



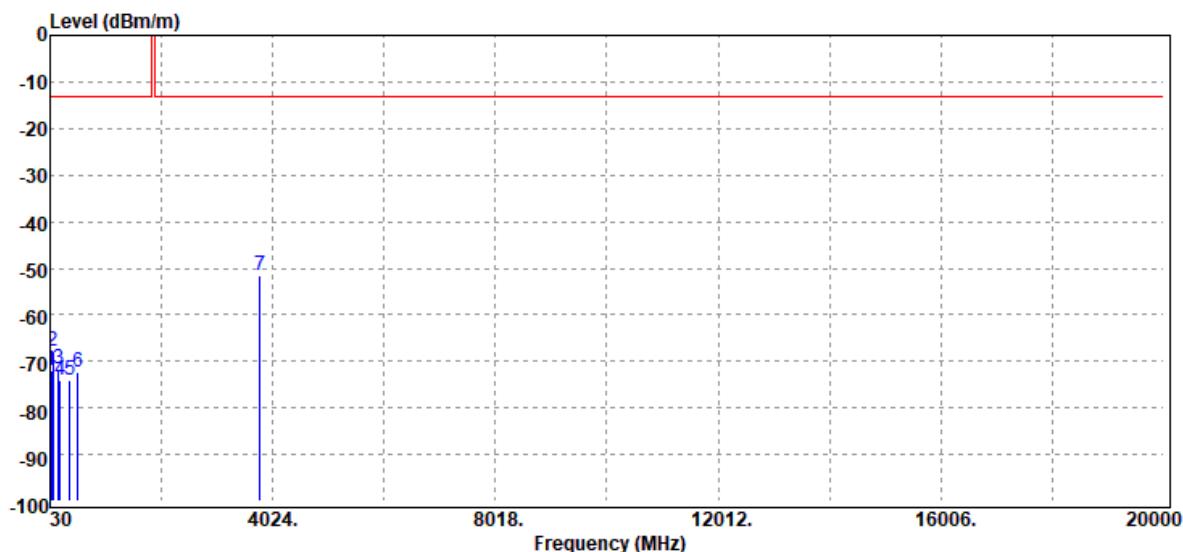
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-76.16	-68.72	-6.60	-0.84	-13.00	-63.16
151.25	-72.82	-66.87	-4.73	-1.22	-13.00	-59.82
241.46	-77.48	-74.11	-1.89	-1.48	-13.00	-64.48
369.50	-74.75	-71.63	-1.38	-1.74	-13.00	-61.75
522.76	-76.49	-73.56	-0.86	-2.07	-13.00	-63.49
613.94	-75.16	-72.52	-0.64	-2.00	-13.00	-62.16
3760.00	-51.25	-57.91	12.40	-5.74	-13.00	-38.25

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1900 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-71.93	-60.87	-10.39	-0.67	-13.00	-58.93
76.56	-67.71	-60.27	-6.60	-0.84	-13.00	-54.71
182.29	-71.56	-68.72	-1.61	-1.23	-13.00	-58.56
216.24	-74.21	-71.86	-0.98	-1.37	-13.00	-61.21
377.26	-73.89	-70.86	-1.24	-1.79	-13.00	-60.89
522.76	-72.19	-69.26	-0.86	-2.07	-13.00	-59.19
3800.00	-51.69	-58.43	12.40	-5.66	-13.00	-38.69

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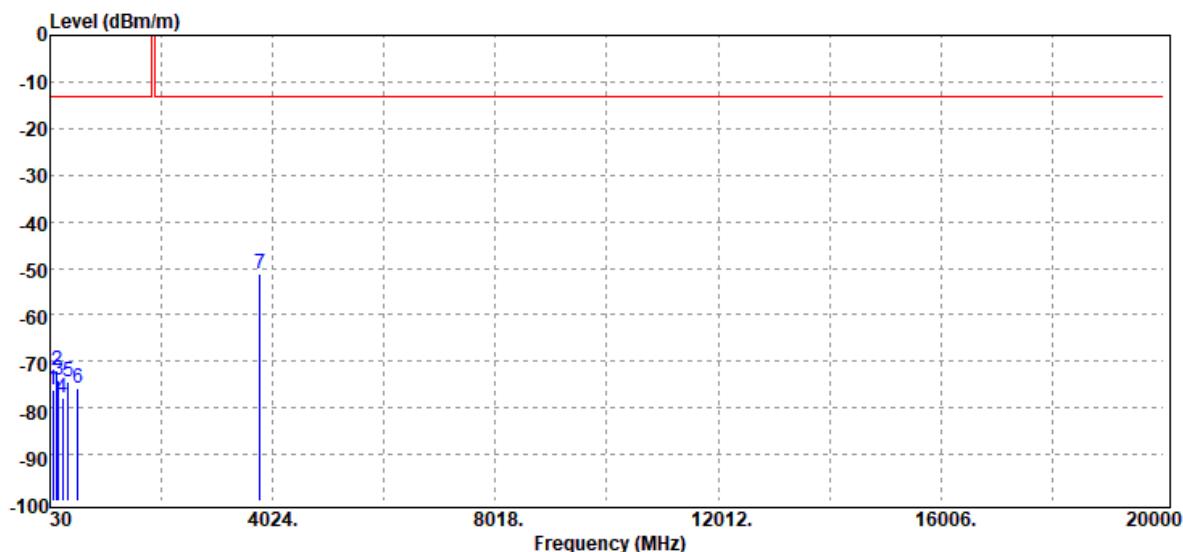
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B2	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1900 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-75.96	-68.55	-6.58	-0.83	-13.00	-62.96
153.19	-72.11	-66.39	-4.50	-1.22	-13.00	-59.11
178.41	-74.19	-71.16	-1.80	-1.23	-13.00	-61.19
248.25	-77.71	-74.01	-2.19	-1.51	-13.00	-64.71
361.74	-74.24	-70.87	-1.66	-1.71	-13.00	-61.24
527.61	-75.94	-73.20	-0.83	-1.91	-13.00	-62.94
3800.00	-51.10	-57.84	12.40	-5.66	-13.00	-38.10

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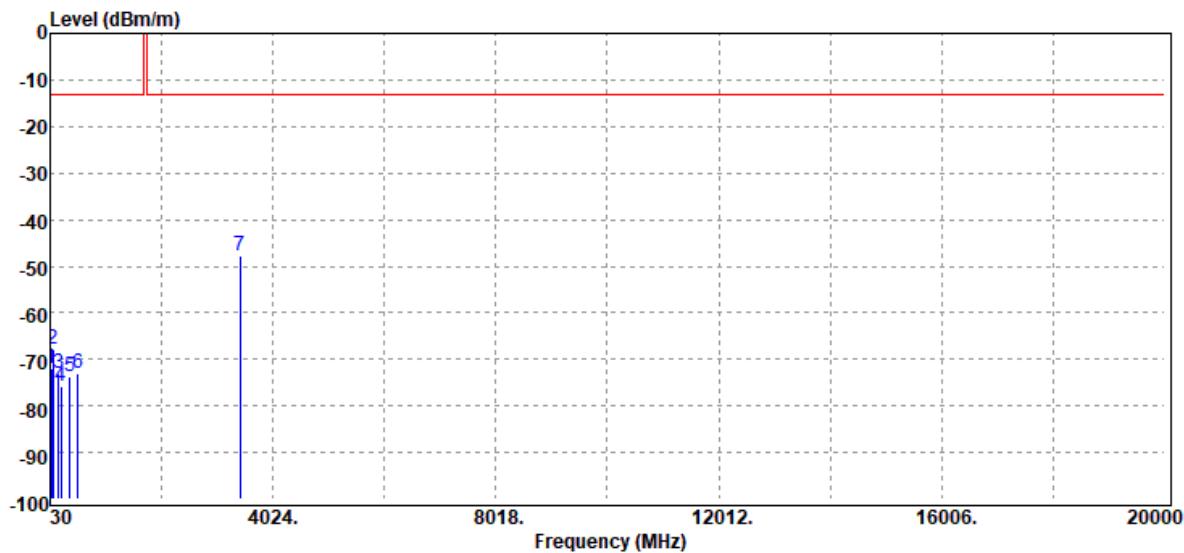
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1720.0 MHz	Engineer	:Nick



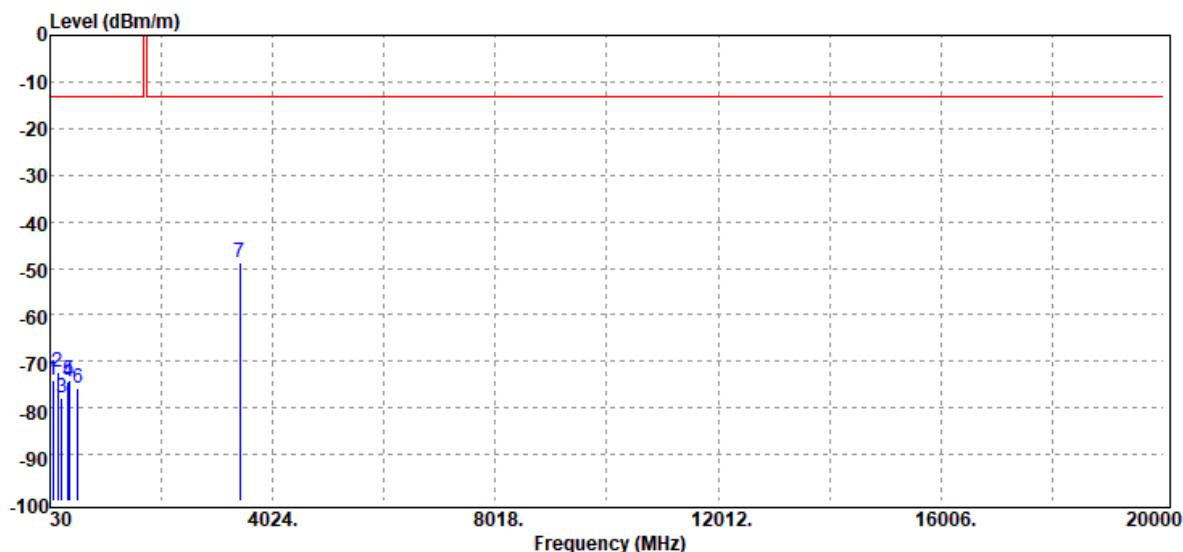
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-72.09	-61.70	-9.70	-0.69	-13.00	-59.09
76.56	-67.97	-60.53	-6.60	-0.84	-13.00	-54.97
182.29	-72.95	-70.11	-1.61	-1.23	-13.00	-59.95
225.94	-75.73	-73.19	-1.14	-1.40	-13.00	-62.73
382.11	-73.72	-70.68	-1.23	-1.81	-13.00	-60.72
531.49	-72.95	-70.23	-0.88	-1.84	-13.00	-59.95
3440.00	-47.84	-55.22	12.70	-5.32	-13.00	-34.84

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1720.0 MHz	Engineer	:Nick



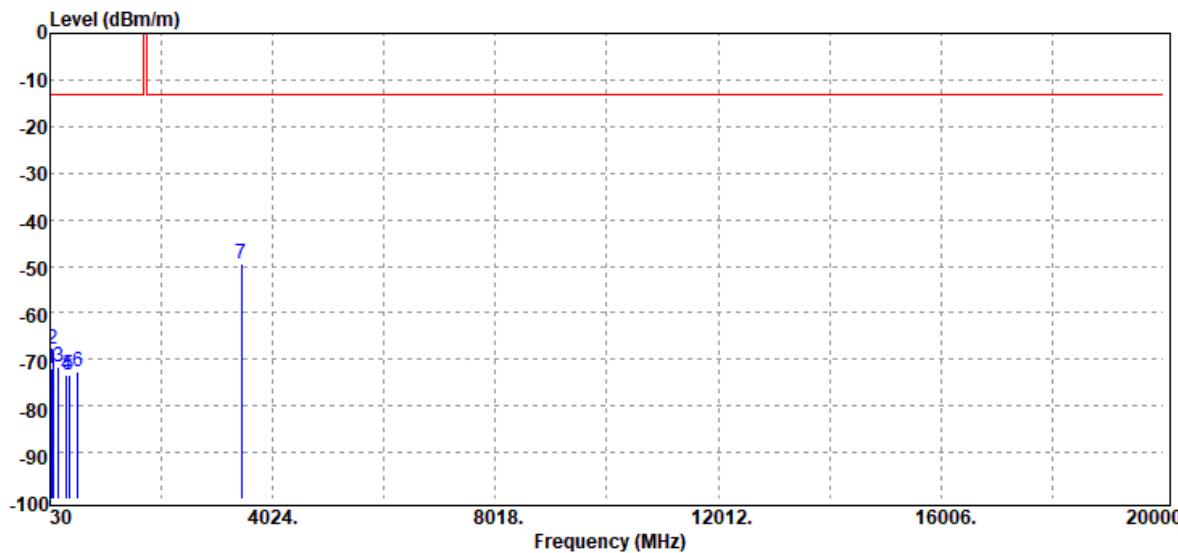
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-74.07	-66.63	-6.60	-0.84	-13.00	-61.07
160.95	-72.20	-67.30	-3.69	-1.21	-13.00	-59.20
241.46	-77.96	-74.59	-1.89	-1.48	-13.00	-64.96
350.10	-74.25	-70.97	-1.45	-1.83	-13.00	-61.25
374.35	-74.20	-71.17	-1.26	-1.77	-13.00	-61.20
522.76	-75.88	-72.95	-0.86	-2.07	-13.00	-62.88
3440.00	-48.85	-56.23	12.70	-5.32	-13.00	-35.85

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1732.5 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-71.90	-61.51	-9.70	-0.69	-13.00	-58.90
76.56	-67.95	-60.51	-6.60	-0.84	-13.00	-54.95
180.35	-71.71	-68.78	-1.70	-1.23	-13.00	-58.71
332.64	-73.48	-70.55	-1.19	-1.74	-13.00	-60.48
376.29	-73.22	-70.20	-1.24	-1.78	-13.00	-60.22
529.55	-72.74	-70.06	-0.84	-1.84	-13.00	-59.74
3465.00	-49.40	-56.50	12.67	-5.57	-13.00	-36.40

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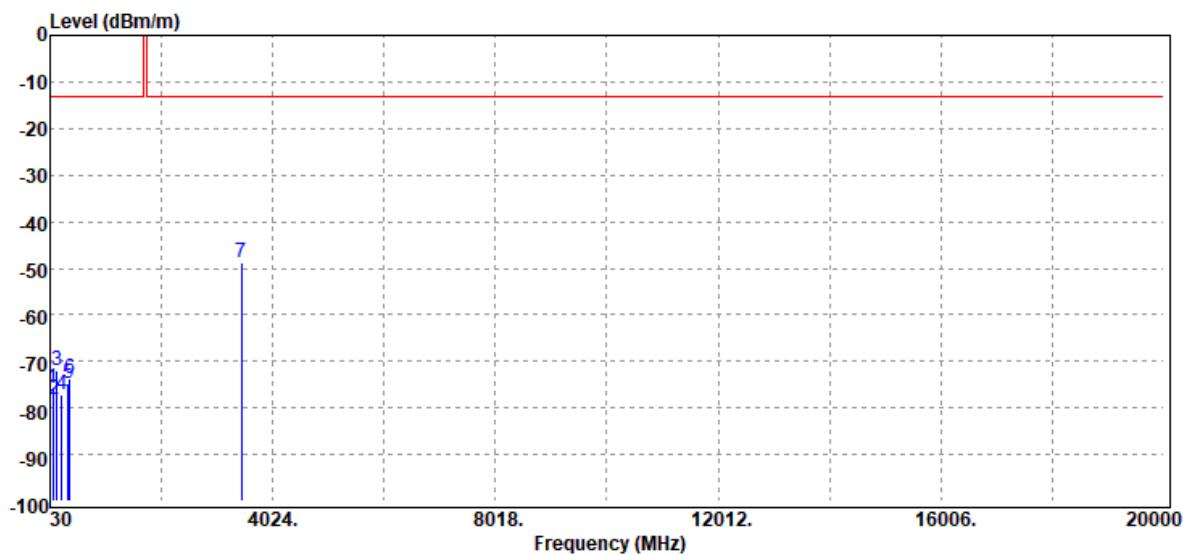
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1732.5 MHz	Engineer	:Nick



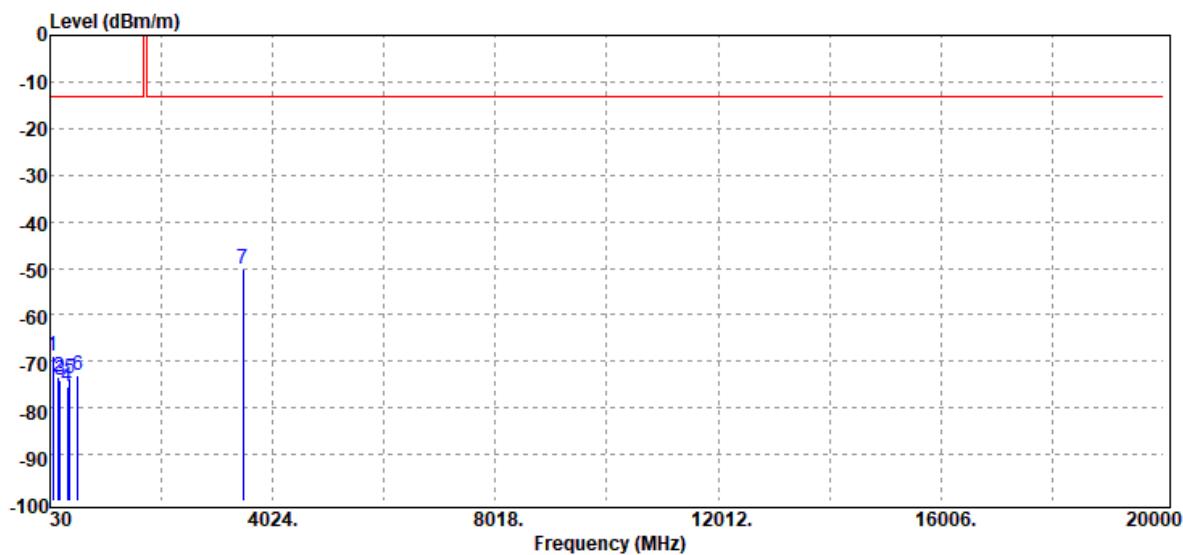
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.93	-68.49	-6.60	-0.84	-13.00	-62.93
95.96	-78.10	-69.10	-8.07	-0.93	-13.00	-65.10
154.16	-72.09	-66.50	-4.37	-1.22	-13.00	-59.09
240.49	-77.12	-73.80	-1.84	-1.48	-13.00	-64.12
350.10	-74.60	-71.32	-1.45	-1.83	-13.00	-61.60
384.05	-73.77	-70.75	-1.22	-1.80	-13.00	-60.77
3465.00	-48.71	-55.81	12.67	-5.57	-13.00	-35.71

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1745.0 MHz	Engineer	:Nick



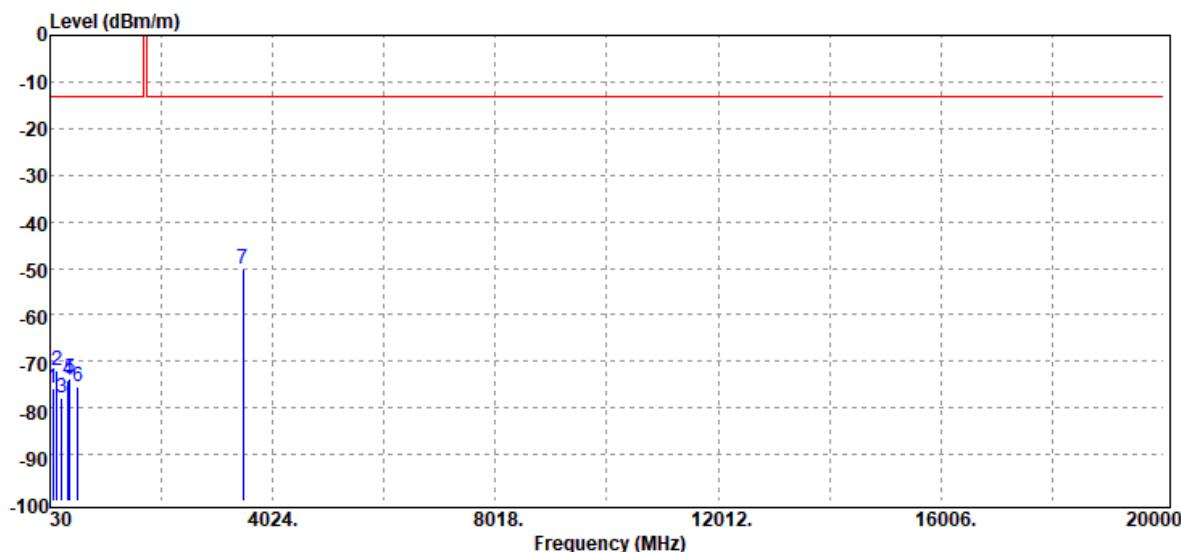
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-68.72	-61.28	-6.60	-0.84	-13.00	-55.72
180.35	-73.22	-70.29	-1.70	-1.23	-13.00	-60.22
209.45	-74.06	-71.28	-1.41	-1.37	-13.00	-61.06
340.40	-75.30	-72.14	-1.30	-1.86	-13.00	-62.30
385.99	-73.65	-70.61	-1.24	-1.80	-13.00	-60.65
527.61	-72.87	-70.13	-0.83	-1.91	-13.00	-59.87
3490.00	-50.28	-57.09	12.62	-5.81	-13.00	-37.28

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B4	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1745.0 MHz	Engineer	:Nick



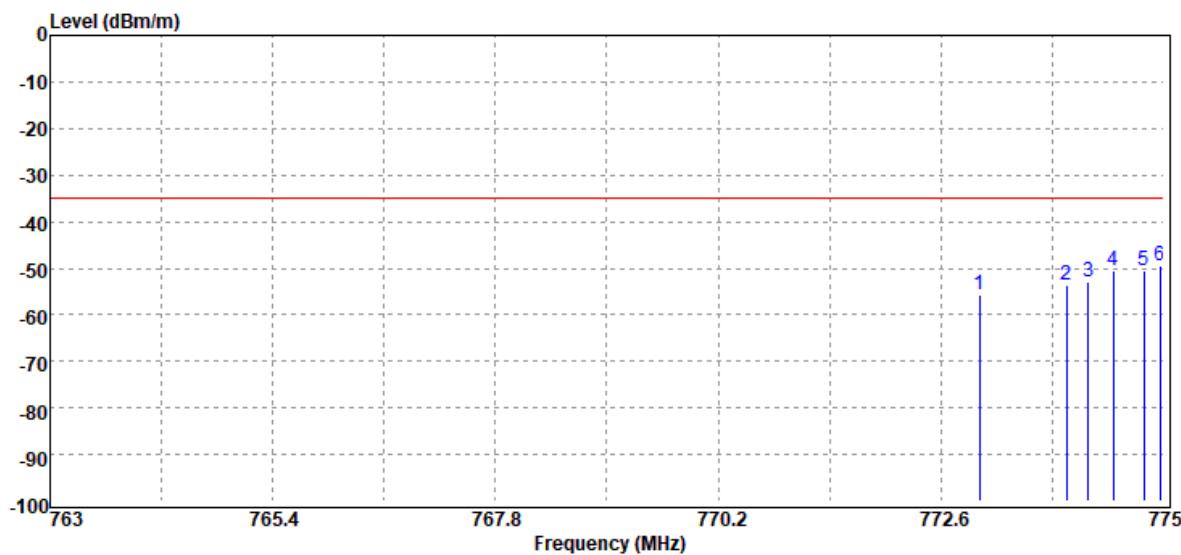
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.70	-68.26	-6.60	-0.84	-13.00	-62.70
156.10	-71.84	-66.39	-4.24	-1.21	-13.00	-58.84
245.34	-77.93	-74.37	-2.06	-1.50	-13.00	-64.93
348.16	-73.93	-70.67	-1.42	-1.84	-13.00	-60.93
386.96	-73.86	-70.81	-1.25	-1.80	-13.00	-60.86
532.46	-75.37	-72.62	-0.90	-1.85	-13.00	-62.37
3490.00	-50.21	-57.02	12.62	-5.81	-13.00	-37.21

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:782 MHz	Engineer	:Nick



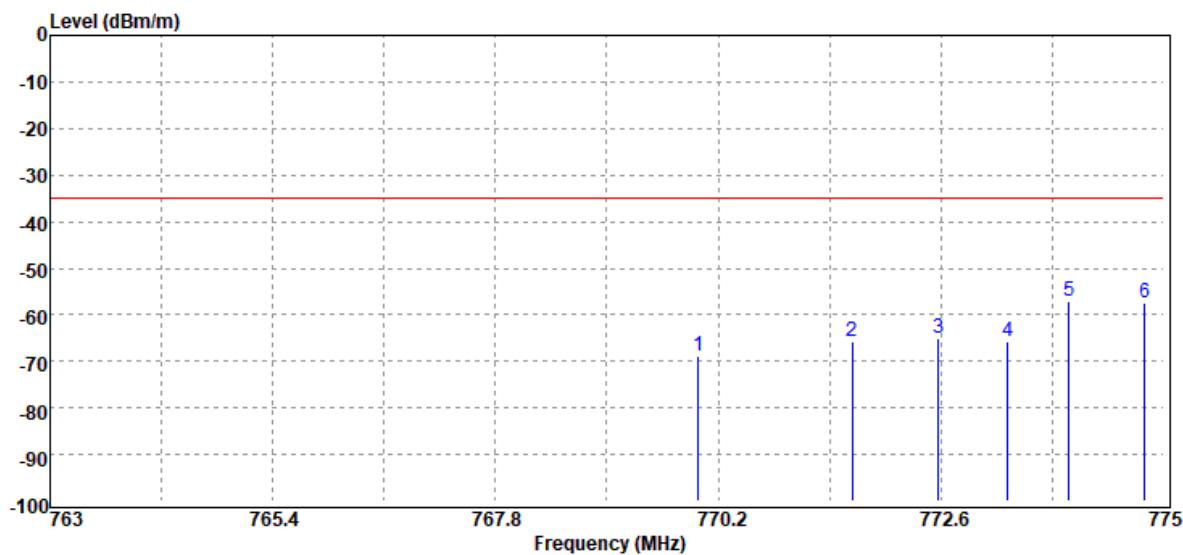
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
773.02	-55.80	-53.52	-0.08	-2.20	-35.00	-20.80
773.96	-53.78	-51.46	-0.11	-2.21	-35.00	-18.78
774.18	-53.09	-50.76	-0.12	-2.21	-35.00	-18.09
774.46	-50.35	-48.01	-0.13	-2.21	-35.00	-15.35
774.78	-50.35	-48.00	-0.13	-2.22	-35.00	-15.35
774.96	-49.52	-47.16	-0.14	-2.22	-35.00	-14.52

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:782 MHz	Engineer	:Nick



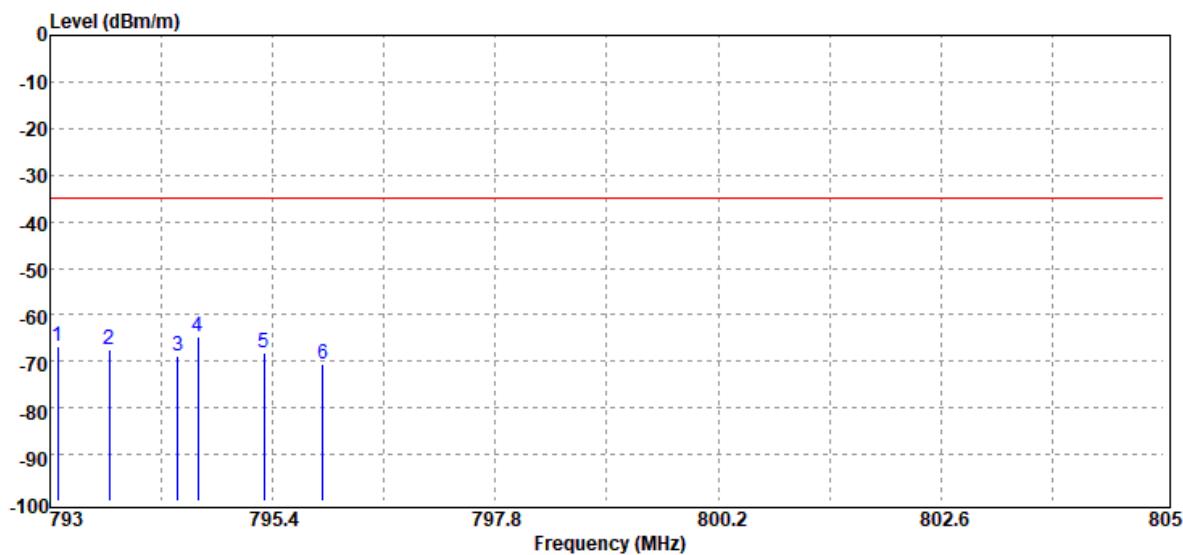
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
769.98	-68.74	-66.58	0.00	-2.16	-35.00	-33.74
771.64	-65.77	-63.55	-0.04	-2.18	-35.00	-30.77
772.58	-65.17	-62.91	-0.07	-2.19	-35.00	-30.17
773.32	-65.59	-63.30	-0.09	-2.20	-35.00	-30.59
773.98	-57.07	-54.75	-0.11	-2.21	-35.00	-22.07
774.80	-57.48	-55.13	-0.13	-2.22	-35.00	-22.48

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:782 MHz	Engineer	:Nick



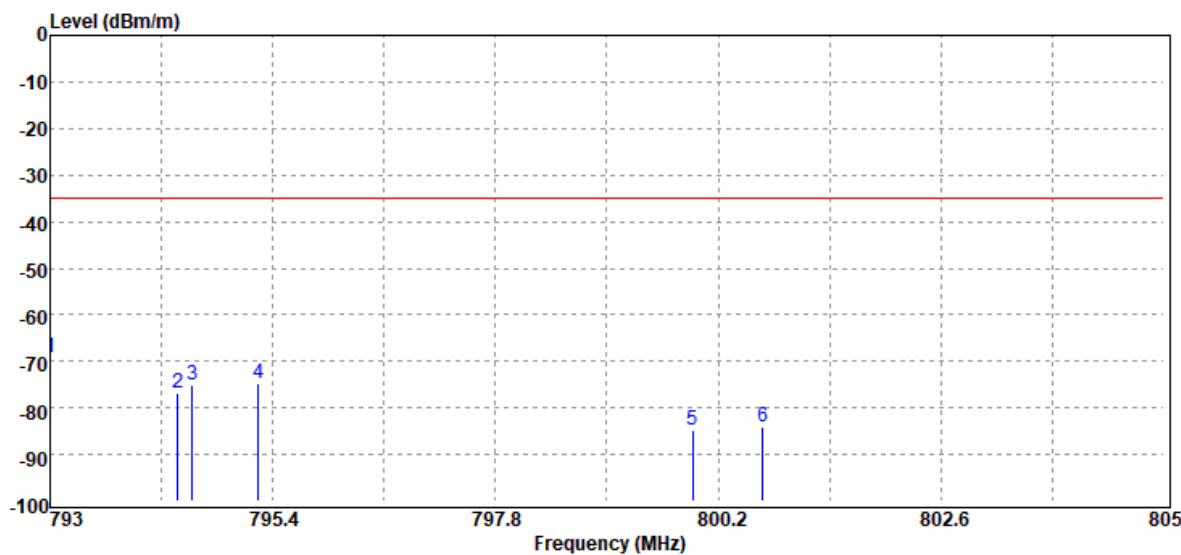
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.08	-66.67	-64.14	0.20	-2.73	-35.00	-31.67
793.64	-67.38	-64.83	0.19	-2.74	-35.00	-32.38
794.38	-68.89	-66.33	0.19	-2.75	-35.00	-33.89
794.60	-64.77	-62.20	0.18	-2.75	-35.00	-29.77
795.30	-68.05	-65.47	0.18	-2.76	-35.00	-33.05
795.94	-70.54	-67.94	0.17	-2.77	-35.00	-35.54

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:782 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.00	-69.16	-66.63	0.20	-2.73	-35.00	-34.16
794.38	-76.69	-74.13	0.19	-2.75	-35.00	-41.69
794.54	-75.21	-72.64	0.18	-2.75	-35.00	-40.21
795.24	-74.65	-72.07	0.18	-2.76	-35.00	-39.65
799.92	-84.84	-82.16	0.14	-2.82	-35.00	-49.84
800.68	-84.23	-81.54	0.13	-2.82	-35.00	-49.23

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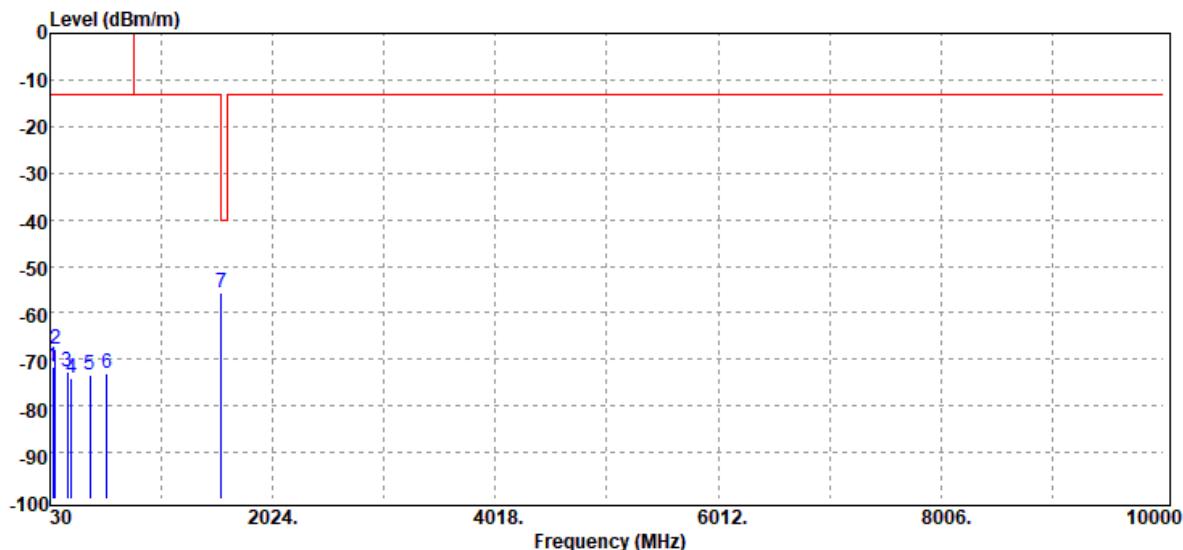
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:782.0 MHz	Engineer	:Nick



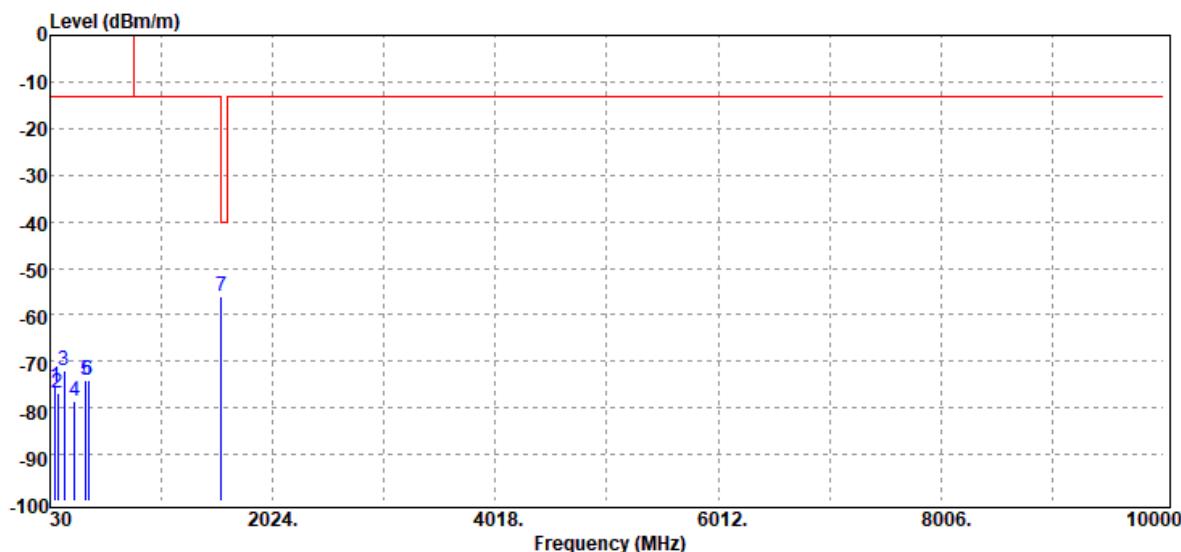
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-71.57	-61.18	-9.70	-0.69	-13.00	-58.57
76.56	-67.86	-60.42	-6.60	-0.84	-13.00	-54.86
183.26	-72.52	-69.71	-1.57	-1.24	-13.00	-59.52
219.15	-74.15	-71.81	-0.98	-1.36	-13.00	-61.15
384.05	-73.30	-70.28	-1.22	-1.80	-13.00	-60.30
536.34	-72.92	-70.04	-0.99	-1.89	-13.00	-59.92
1564.00	-55.87	-61.43	9.31	-3.75	-40.00	-15.87

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B13	Test Date	:2020-09-26
Test Mode	:Tx CH Mid	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:782.0 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.44	-68.00	-6.60	-0.84	-13.00	-62.44
97.90	-76.66	-67.53	-8.19	-0.94	-13.00	-63.66
154.16	-72.03	-66.44	-4.37	-1.22	-13.00	-59.03
251.16	-78.57	-74.71	-2.34	-1.52	-13.00	-65.57
348.16	-74.22	-70.96	-1.42	-1.84	-13.00	-61.22
375.32	-74.02	-70.99	-1.25	-1.78	-13.00	-61.02
1564.00	-56.00	-61.56	9.31	-3.75	-40.00	-16.00

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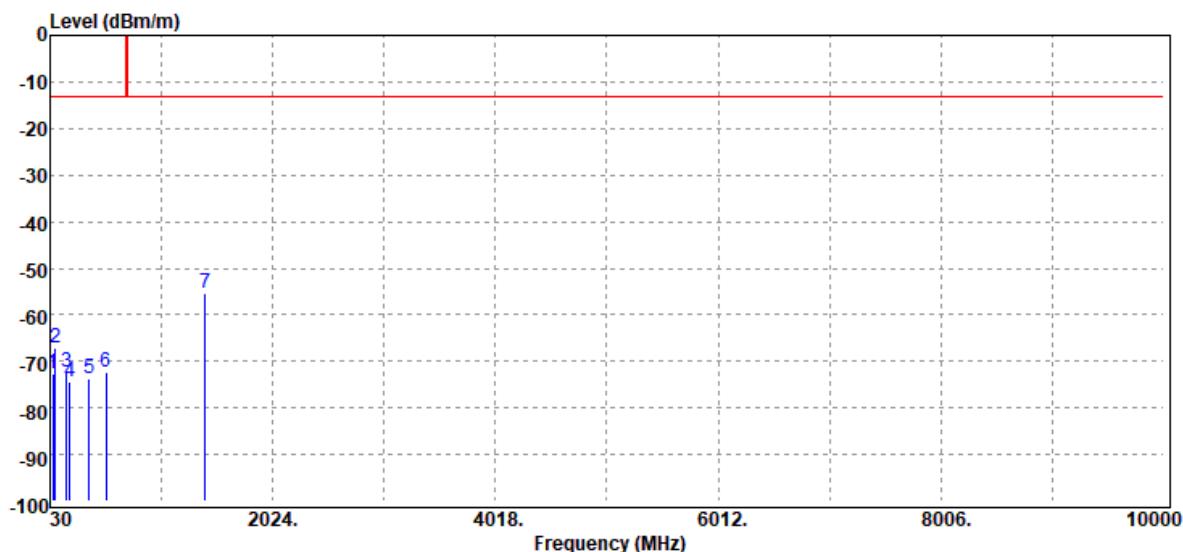
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B17	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:709.0 MHz	Engineer	:Nick



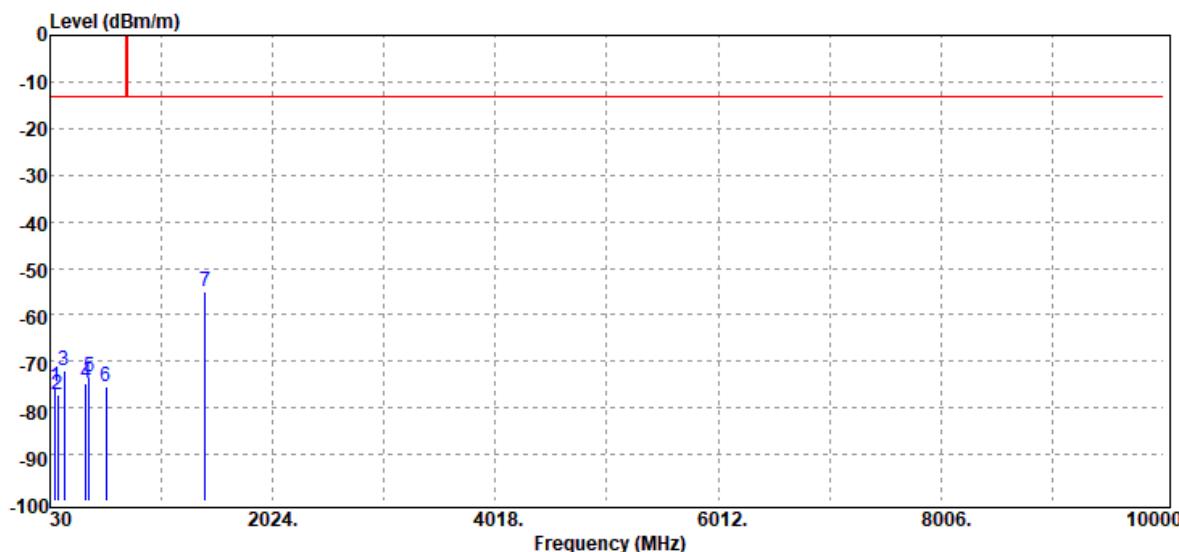
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-72.54	-62.15	-9.70	-0.69	-13.00	-59.54
76.56	-67.22	-59.78	-6.60	-0.84	-13.00	-54.22
180.35	-72.48	-69.55	-1.70	-1.23	-13.00	-59.48
209.45	-74.25	-71.47	-1.41	-1.37	-13.00	-61.25
381.14	-73.54	-70.50	-1.23	-1.81	-13.00	-60.54
534.40	-72.18	-69.36	-0.95	-1.87	-13.00	-59.18
1418.00	-55.53	-59.95	8.01	-3.59	-13.00	-42.53

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B17	Test Date	:2020-09-26
Test Mode	:Tx CH Low	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:709.0 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.51	-68.07	-6.60	-0.84	-13.00	-62.51
97.90	-77.29	-68.16	-8.19	-0.94	-13.00	-64.29
154.16	-71.86	-66.27	-4.37	-1.22	-13.00	-58.86
352.04	-74.91	-71.58	-1.52	-1.81	-13.00	-61.91
379.20	-73.30	-70.27	-1.23	-1.80	-13.00	-60.30
532.46	-75.52	-72.77	-0.90	-1.85	-13.00	-62.52
1418.00	-54.96	-59.38	8.01	-3.59	-13.00	-41.96

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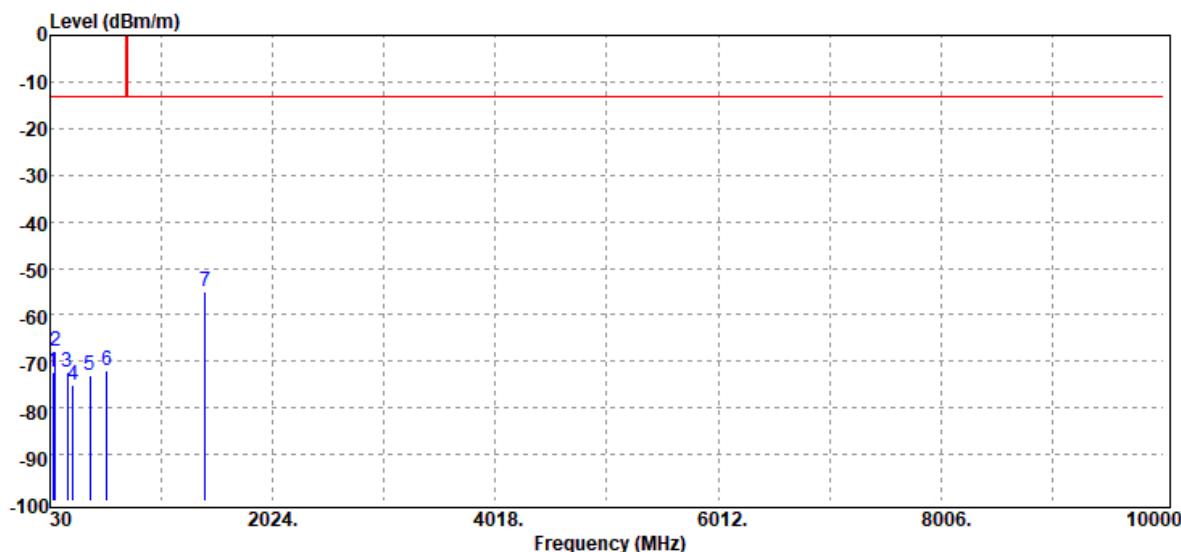
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Report Number :ER-2020-50090
 Operation Mode :LTE B17
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :710.0 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-26
 Temp./Humi. :23.5/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-72.43	-62.04	-9.70	-0.69	-13.00	-59.43
75.59	-67.83	-60.42	-6.58	-0.83	-13.00	-54.83
182.29	-72.39	-69.55	-1.61	-1.23	-13.00	-59.39
233.70	-75.19	-72.19	-1.55	-1.45	-13.00	-62.19
384.05	-73.16	-70.14	-1.22	-1.80	-13.00	-60.16
536.34	-72.05	-69.17	-0.99	-1.89	-13.00	-59.05
1420.00	-55.16	-59.59	8.02	-3.59	-13.00	-42.16

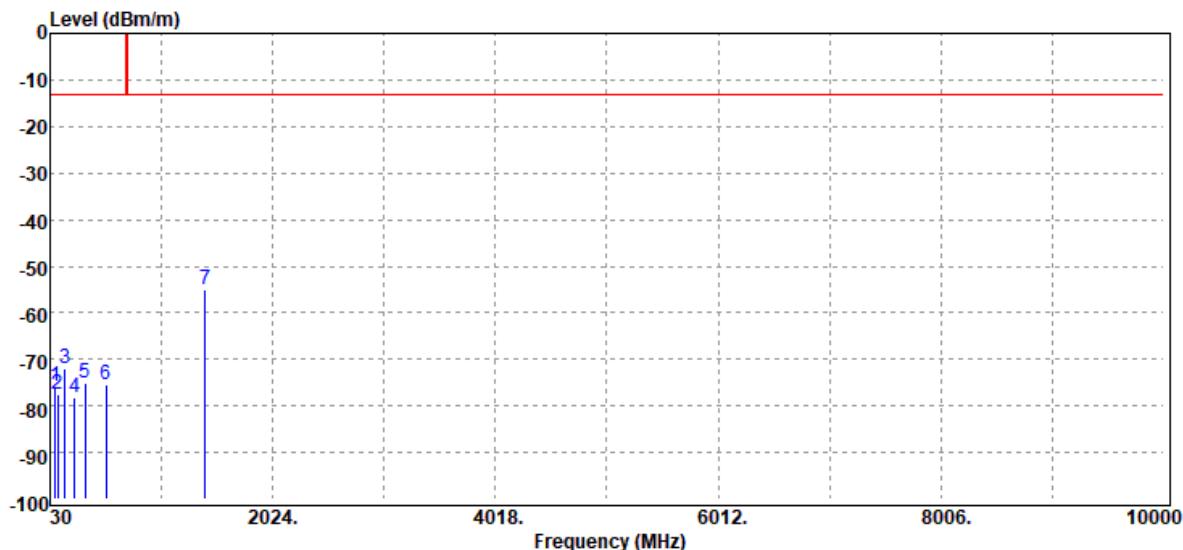
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Report Number :ER-2020-50090
 Operation Mode :LTE B17
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :710.0 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-26
 Temp./Humi. :23.5/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



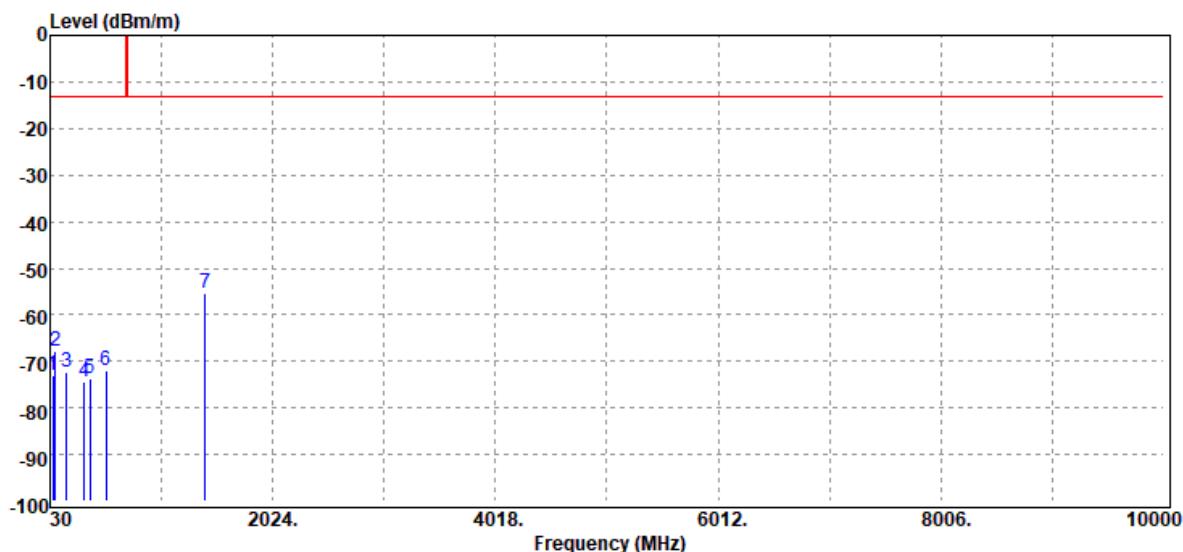
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-75.83	-68.39	-6.60	-0.84	-13.00	-62.83
97.90	-77.68	-68.55	-8.19	-0.94	-13.00	-64.68
160.95	-72.08	-67.18	-3.69	-1.21	-13.00	-59.08
248.25	-78.34	-74.64	-2.19	-1.51	-13.00	-65.34
344.28	-75.14	-71.93	-1.36	-1.85	-13.00	-62.14
531.49	-75.50	-72.78	-0.88	-1.84	-13.00	-62.50
1420.00	-54.89	-59.32	8.02	-3.59	-13.00	-41.89

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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B17	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:711.0 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-72.85	-62.46	-9.70	-0.69	-13.00	-59.85
76.56	-67.88	-60.44	-6.60	-0.84	-13.00	-54.88
180.35	-72.49	-69.56	-1.70	-1.23	-13.00	-59.49
333.61	-74.43	-71.46	-1.21	-1.76	-13.00	-61.43
384.05	-73.72	-70.70	-1.22	-1.80	-13.00	-60.72
532.46	-72.03	-69.28	-0.90	-1.85	-13.00	-59.03
1422.00	-55.45	-59.89	8.03	-3.59	-13.00	-42.45

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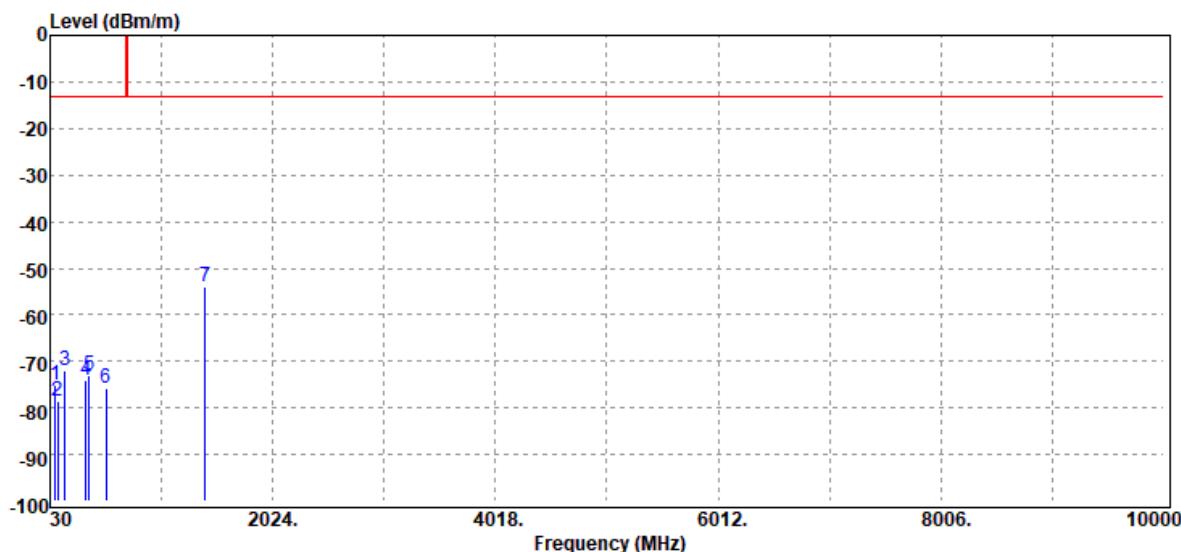
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Report Number	:ER-2020-50090	Test Site	:SAC III Chamber
Operation Mode	:LTE B17	Test Date	:2020-09-26
Test Mode	:Tx CH High	Temp./Humi.	:23.5/62
EUT Pol	:H Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:711.0 MHz	Engineer	:Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-74.99	-67.57	-6.58	-0.84	-13.00	-61.99
97.90	-78.39	-69.26	-8.19	-0.94	-13.00	-65.39
160.95	-72.02	-67.12	-3.69	-1.21	-13.00	-59.02
353.01	-74.01	-70.67	-1.55	-1.79	-13.00	-61.01
379.20	-73.04	-70.01	-1.23	-1.80	-13.00	-60.04
531.49	-75.85	-73.13	-0.88	-1.84	-13.00	-62.85
1422.00	-54.05	-58.49	8.03	-3.59	-13.00	-41.05

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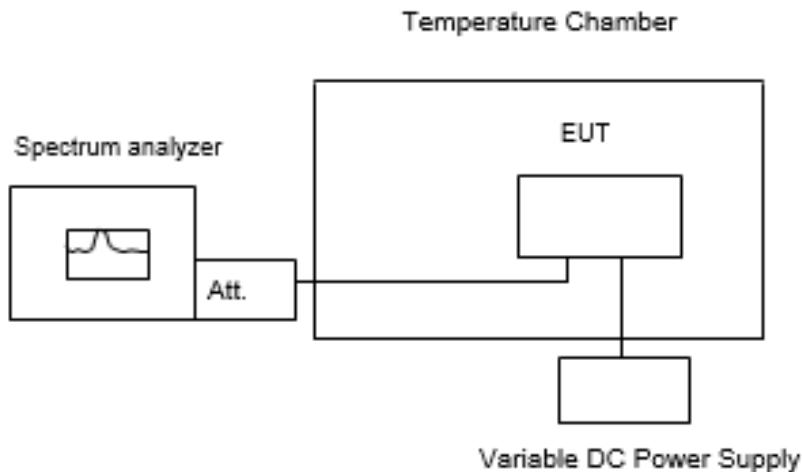
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10 FREQUENCY STABILITY MEASUREMENT

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

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

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10.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Splitter	RF-LAMBAD	RFLT2W1G-18G	11-JSPF412-018	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.8V dc.

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.35	20	1880.000009	9	4700
3.8	20	1879.999995	-5	4700
3.6	20	1880.000007	7	4700
3.3 (End point)	20	1880.000003	3	4700
FREQUENCY ERROR vs. Temp.				
3.8	50	1879.999993	-7	4700
3.8	40	1879.999995	-5	4700
3.8	30	1880.000001	10	4700
3.8	20	1880.000004	4	4700
3.8	10	1880.000009	9	4700
3.8	0	1879.999992	-8	4700
3.8	-10	1879.999999	-10	4700
3.8	-20	1879.999994	-6	4700
3.8	-30	1880.000007	7	4700

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WCDMA V Mid Channel		836.6	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.35	20	836.600009	9	2091
3.8	20	836.600007	7	2091
3.6	20	836.600002	2	2091
3.3 (End point)	20	836.599994	-6	2091
FREQUENCY ERROR vs. Temp.				
3.8	50	836.600006	6	2091
3.8	40	836.599998	-2	2091
3.8	30	836.599995	-5	2091
3.8	20	836.599997	-3	2091
3.8	10	836.60001	10	2091
3.8	0	836.599994	-6	2091
3.8	-10	836.600002	2	2091
3.8	-20	836.600005	5	2091
3.8	-30	836.600007	7	2091

Reference Freq.:		LTE B2 Mid Channel	1880	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1880.000004	4	4700
3.8	25	1879.999992	-8	4700
3.6	25	1880.000001	1	4700
3.3 (End Point)	25	1879.999993	-7	4700
Freq. ERROR vs. Temp.				
3.8	-30	1879.999998	-2	4700
3.8	-20	1879.999992	-8	4700
3.8	-10	1880.000001	1	4700
3.8	0	1879.999991	-9	4700
3.8	10	1880.000005	5	4700
3.8	20	1880.000006	6	4700
3.8	30	1880.000007	7	4700
3.8	40	1879.999997	-3	4700
3.8	50	1879.999991	-9	4700

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Reference Freq.:		LTE B4 Mid Channel		
		1732.5	MHz	10M QPSK CH 20175
Power Supply Vdc				
	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1732.499993	-7	4331
3.8	25	1732.499995	-5	4331
3.6	25	1732.500002	2	4331
3.3 (End Point)	25	1732.499991	-9	4331
Freq. ERROR vs. Temp.				
3.8	-30	1732.499997	-3	4331
3.8	-20	1732.500006	6	4331
3.8	-10	1732.499993	-7	4331
3.8	0	1732.499999	-1	4331
3.8	10	1732.500010	10	4331
3.8	20	1732.499996	-4	4331
3.8	30	1732.500008	8	4331
3.8	40	1732.500005	5	4331
3.8	50	1732.500001	1	4331
Reference Freq.:		LTE B13 Mid Channel		
		782	MHz	10M QPSK CH 23230
Power Supply Vdc		Temp. (°C)	Freq. (MHz)	Delta (Hz)
				Limit = +/- 2.5 ppm (Hz)
Power Supply Vdc				
Freq. ERROR vs. VOLTAGE				
4.35	25	782.000004	4	1955
3.8	25	781.999999	-1	1955
3.6	25	781.999995	-5	1955
3.3 (End Point)	25	781.999991	-9	1955
Freq. ERROR vs. Temp.				
3.8	-30	782.000005	5	1955
3.8	-20	781.999999	-1	1955
3.8	-10	782.000004	4	1955
3.8	0	781.999994	-6	1955
3.8	10	782.000003	3	1955
3.8	20	781.999992	-8	1955
3.8	30	782.000001	1	1955
3.8	40	781.999998	-2	1955
3.8	50	782.000010	10	1955

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Reference Freq.:		LTE B17 Mid Channel		
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	710.000009	9	1775
3.8	25	709.999994	-6	1775
3.6	25	709.999995	-5	1775
3.3 (End Point)	25	710.000004	4	1775
Freq. ERROR vs. Temp.				
3.8	-30	709.999993	-7	1775
3.8	-20	710.000009	9	1775
3.8	-10	709.999994	-6	1775
3.8	0	710.000006	6	1775
3.8	10	710.000004	4	1775
3.8	20	709.999992	-8	1775
3.8	30	710.000003	3	1775
3.8	40	709.999995	-5	1775
3.8	50	710.000001	1	1775

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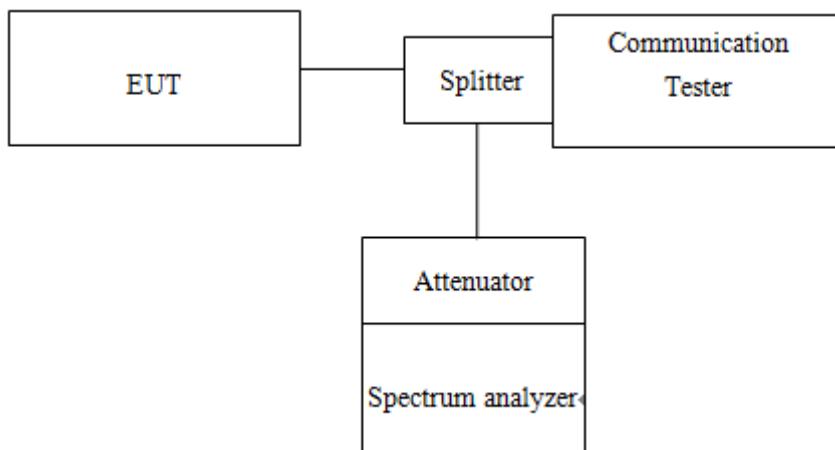
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq 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 Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Splitter	RF-LAMBAD	RFLT2W1G 18G	11-JSPF412-018	01/02/2020	01/01/2021

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11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.90	3.55	3.56
1880	9400	2.83	3.68	4.05
1907.6	9538	2.81	3.81	4.10

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.15	3.70	3.64
836.6	4183	2.13	3.50	3.61
846.6	4233	2.71	3.83	3.69

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	6.16	13	1851.5	18615	6.38	13
1880.0	18900	6.16	13	1880.0	18900	6.27	13
1909.3	19193	6.49	13	1908.5	19185	6.18	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	6.39	13	1855.0	18650	6.43	13
1880.0	18900	6.29	13	1880.0	18900	6.28	13
1907.5	19175	6.26	13	1905.0	19150	6.27	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	6.56	13	1860.0	18700	6.76	13
1880.0	18900	6.56	13	1880.0	18900	6.61	13
1902.5	19125	6.49	13	1900.0	19100	6.76	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.32	13	1711.5	19965	6.37	13
1732.5	20175	6.07	13	1732.5	20175	6.05	13
1754.3	20393	6.11	13	1753.5	20385	6.26	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	6.44	13	1715.0	20000	6.42	13
1732.5	20175	6.13	13	1732.5	20175	6.18	13
1752.5	20375	6.26	13	1750.0	20350	6.36	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	6.59	13	1720.0	20050	6.90	13
1732.5	20175	6.59	13	1732.5	20175	6.77	13
1747.5	20325	6.46	13	1745.0	20300	6.68	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	6.27	13	782.0	23230	6.06	13
782.0	23230	6.14	13				
784.5	23255	6.03	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.42	13	709.0	23780	6.26	13
710.0	23790	6.30	13	710.0	23790	6.27	13
713.5	23825	6.34	13	711.0	23800	6.22	13

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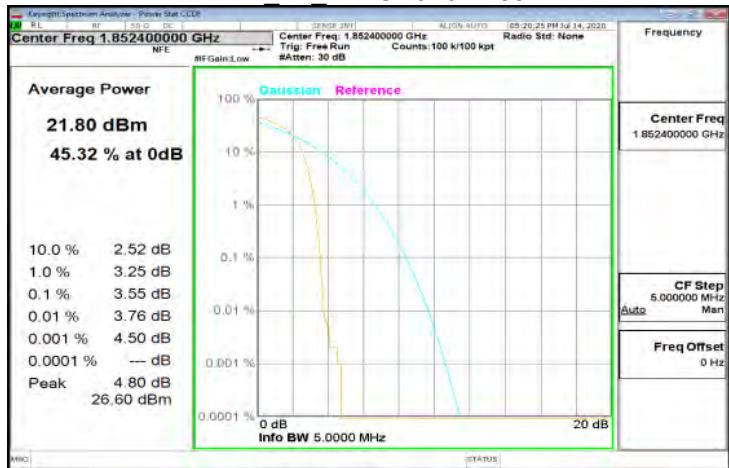
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WCDMA B2 LowCH9262-1852.4



HSDPA B2 LowCH9262-1852.4



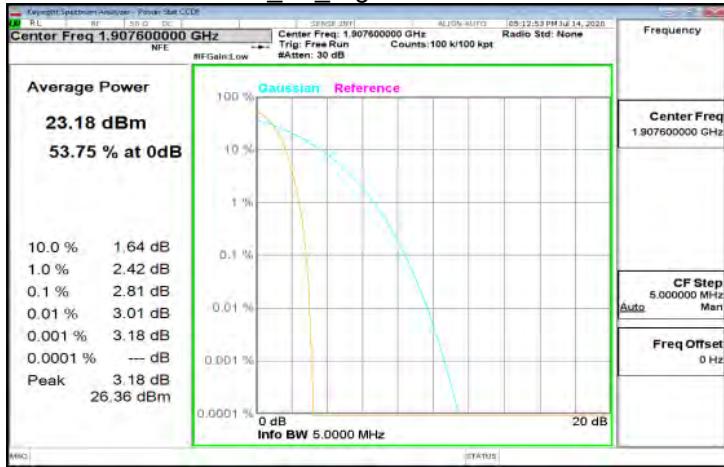
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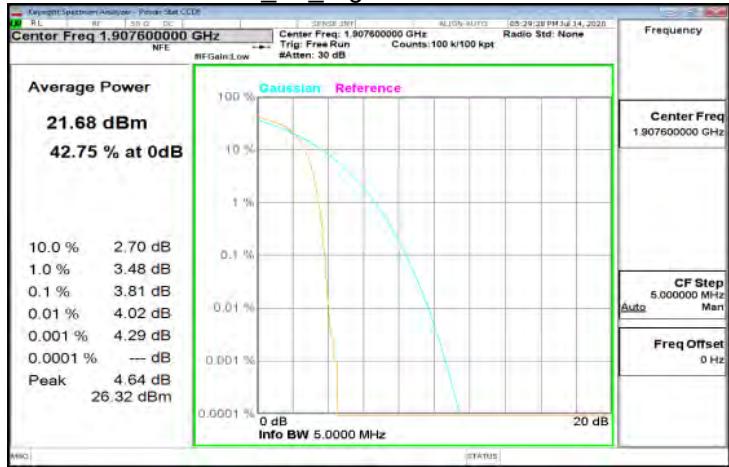
HSDPA_B2_MidCH9400-1880



WCDMA_B2_HighCH9538-1907.6



HSDPA_B2_HighCH9538-1907.6



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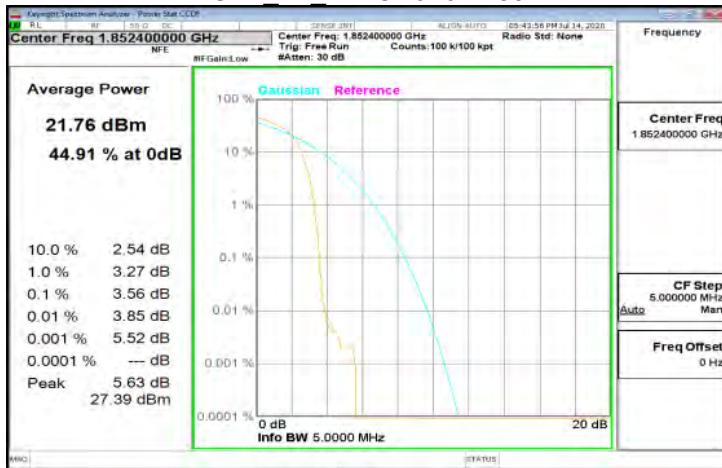
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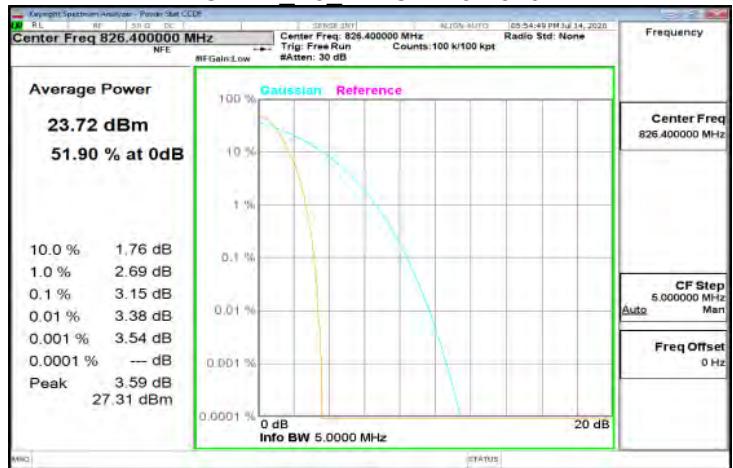
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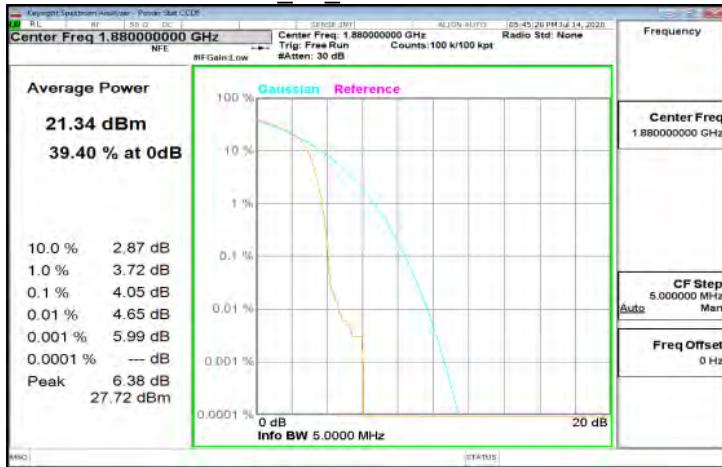
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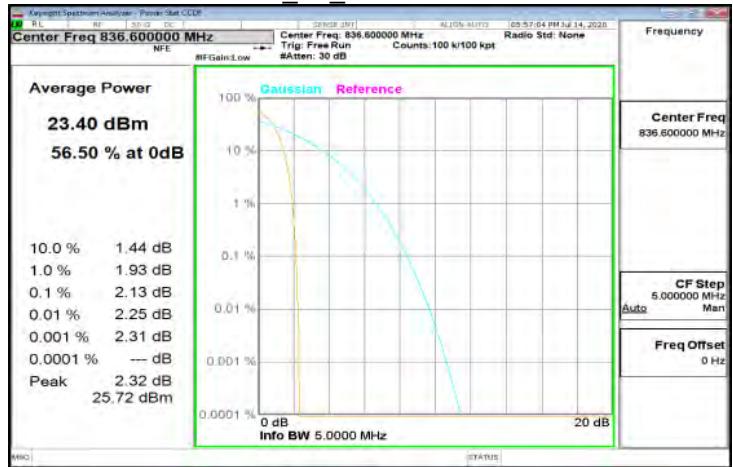
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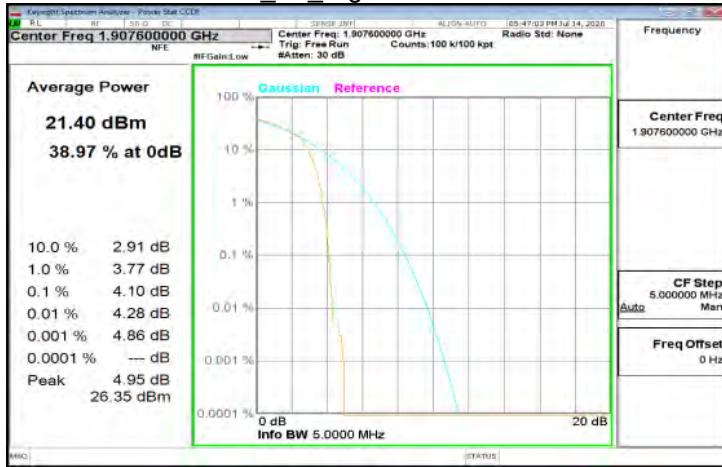
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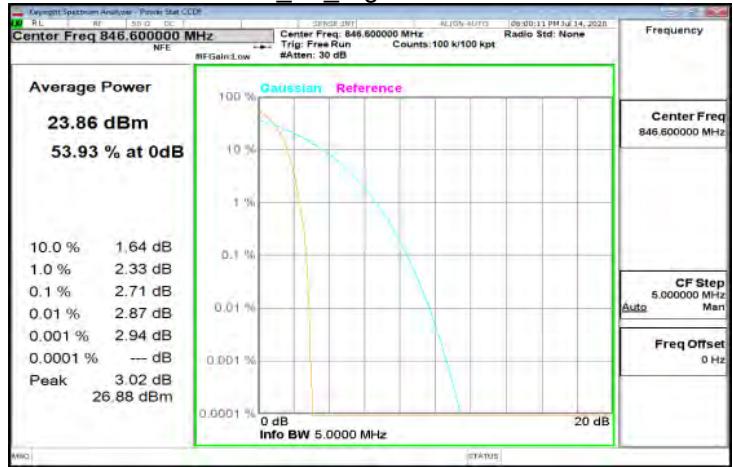
WCDMA_B5_MidCH4183-836.6



HSUPA_B2_HighCH9538-1907.6



WCDMA_B5_HighCH4233-846.6



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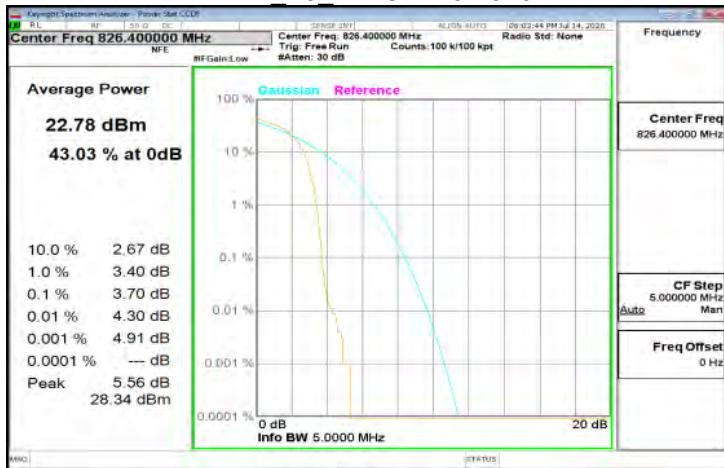
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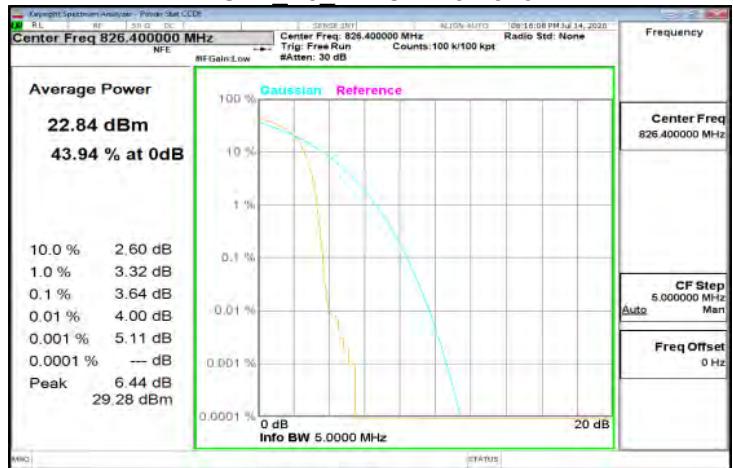
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HSDPA B5 LowCH4132-826.4



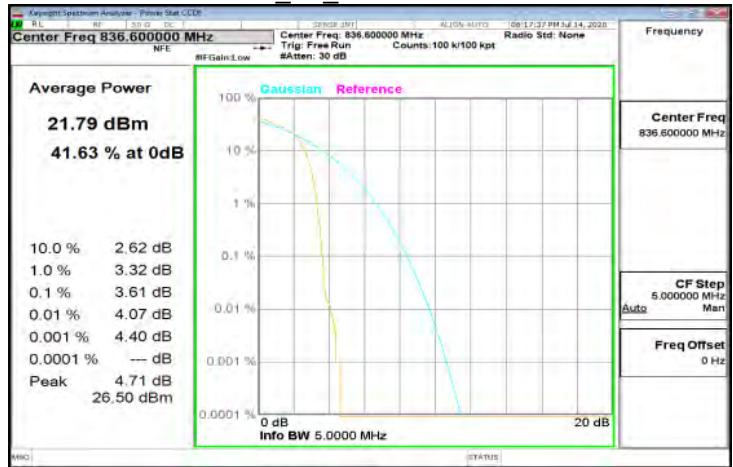
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HSDPA B5 MidCH4183-836.6



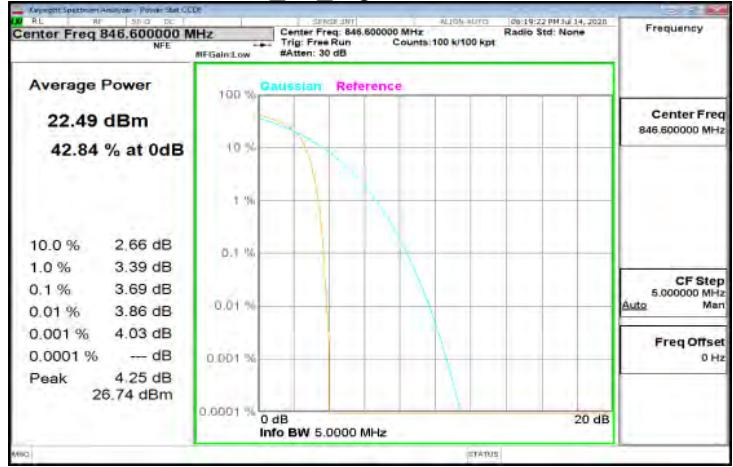
HSUPA B5 MidCH4183-836.6



HSDPA B5 HighCH4233-846.6



HSUPA B5 HighCH4233-846.6



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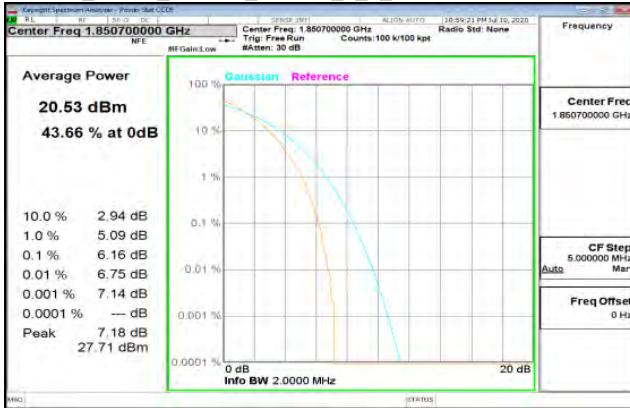
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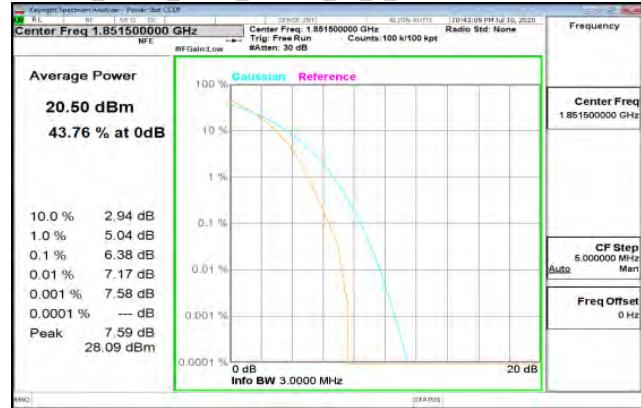
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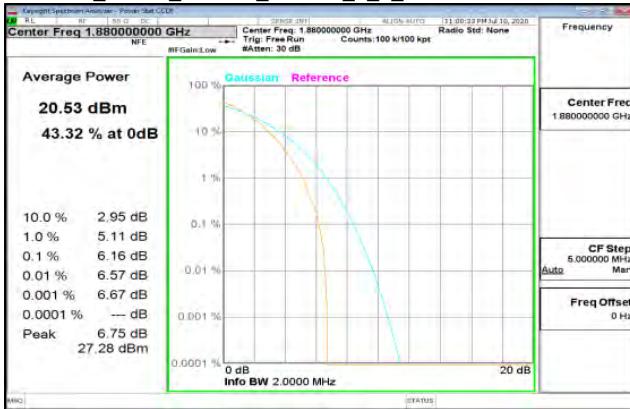
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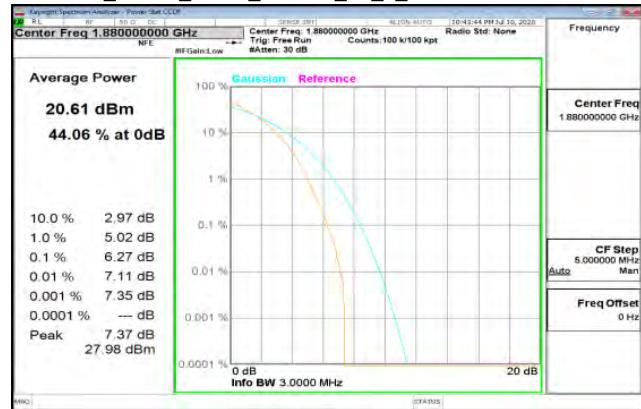
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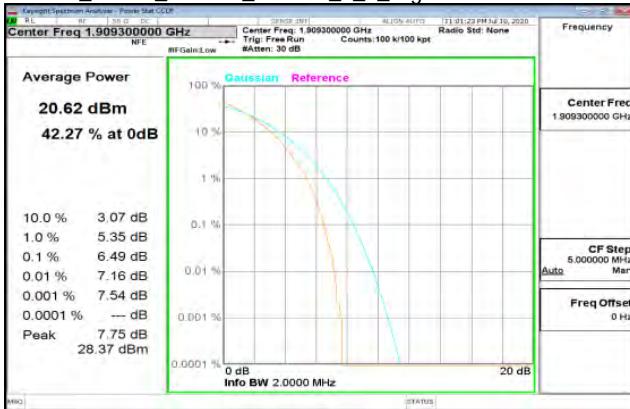
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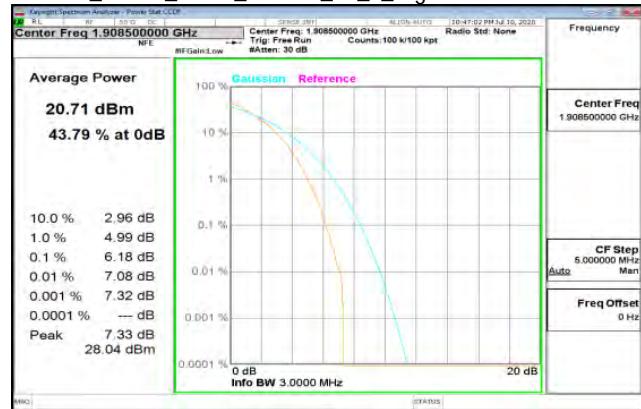
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LTE_Band2_1.4MHz_64QAM_6_0_HighCH19193-1909.3



LTE_Band2_3MHz_64QAM_15_0_HighCH19185-1908.5



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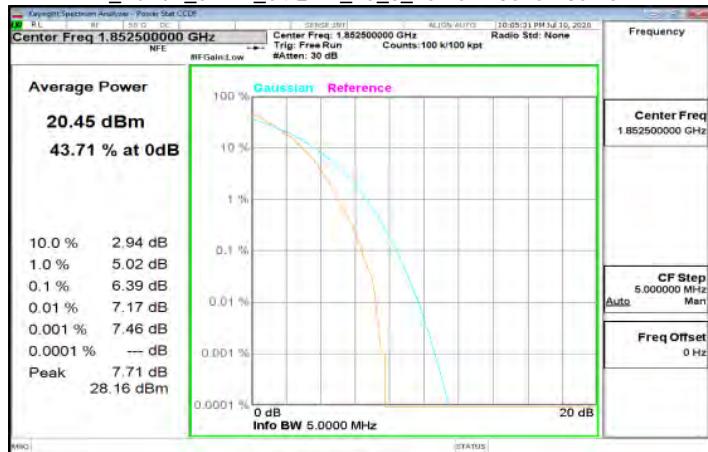
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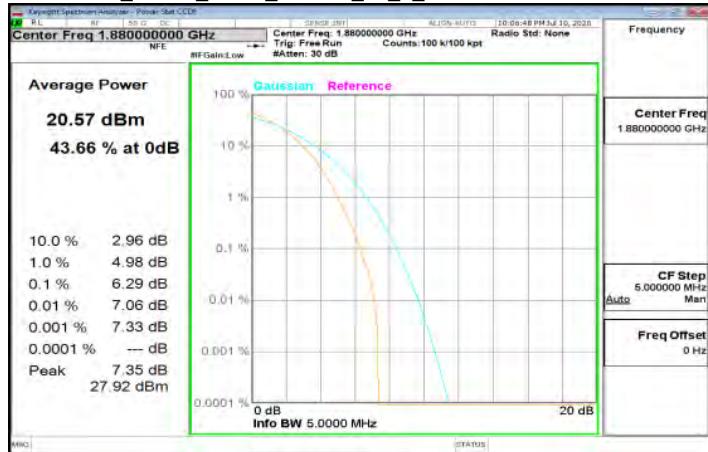
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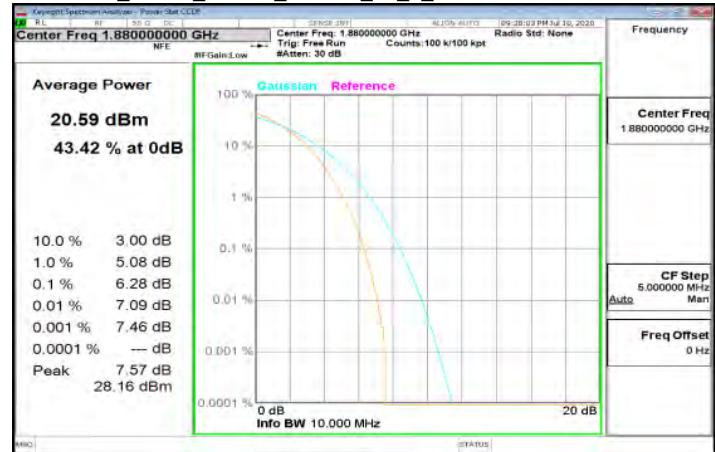
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LTE_Band2_5MHz_64QAM_25_0_MidCH18900-1880



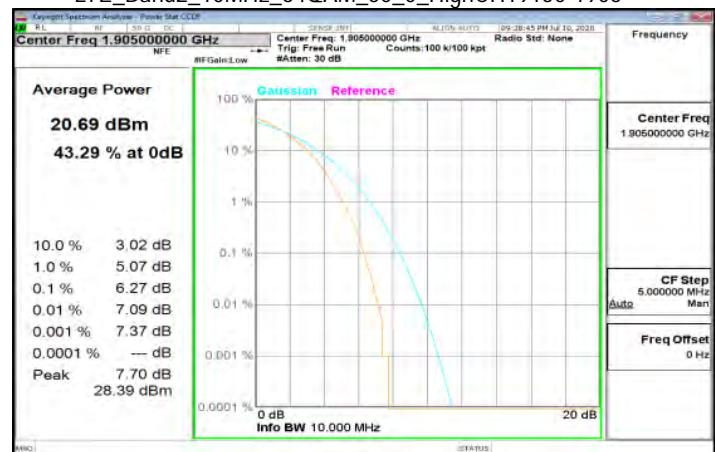
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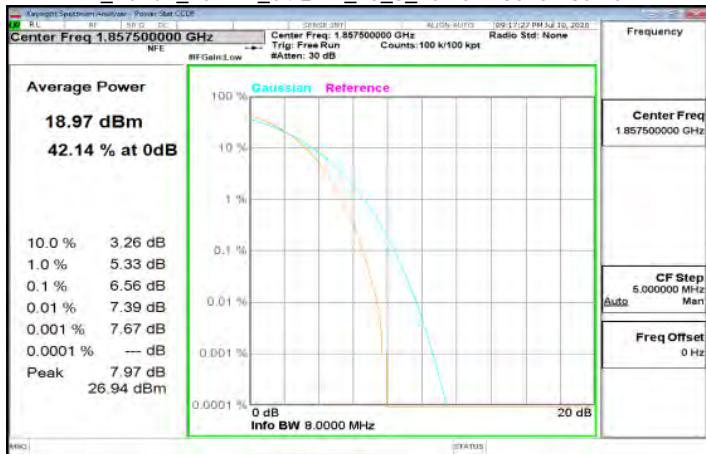


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LTE_Band2_15MHz_64QAM_75_0_LowCH18675-1857.5



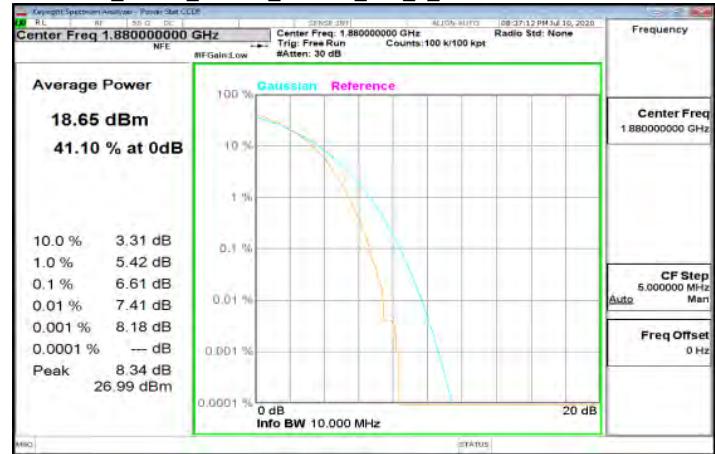
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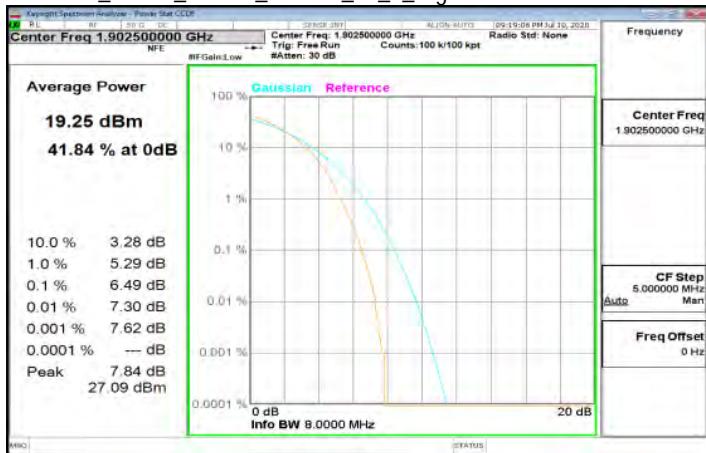
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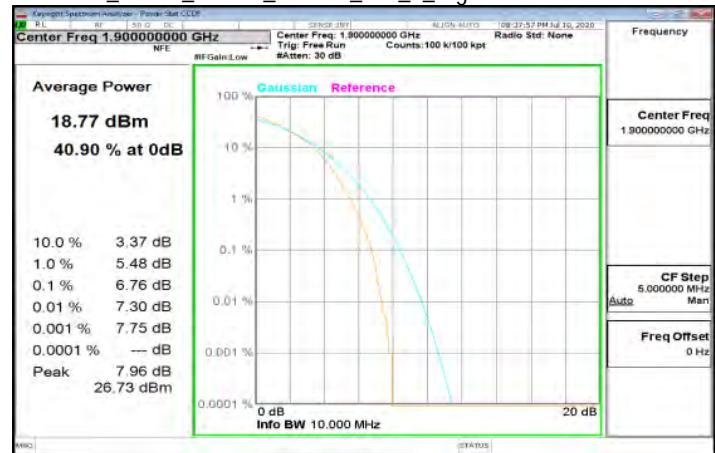
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LTE_Band2_15MHz_64QAM_75_0_HighCH19125-1902.5



LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900



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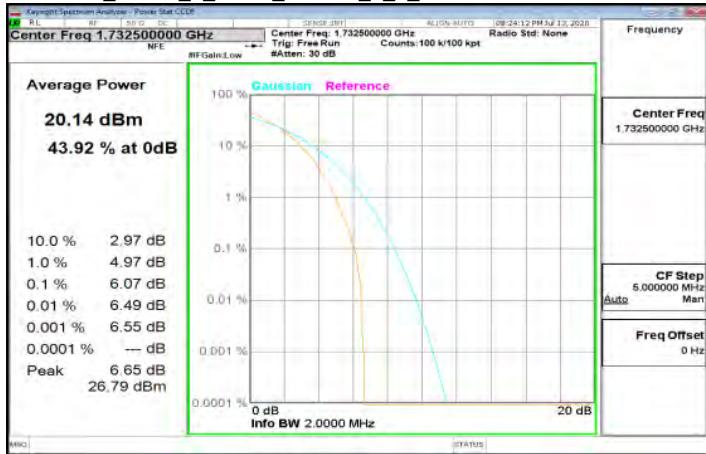
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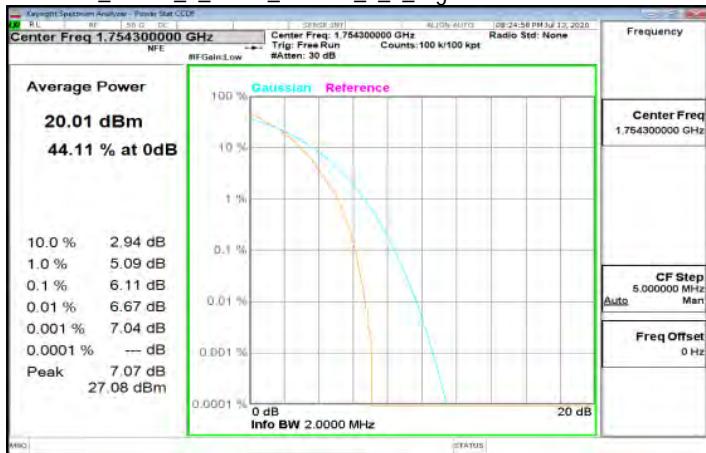
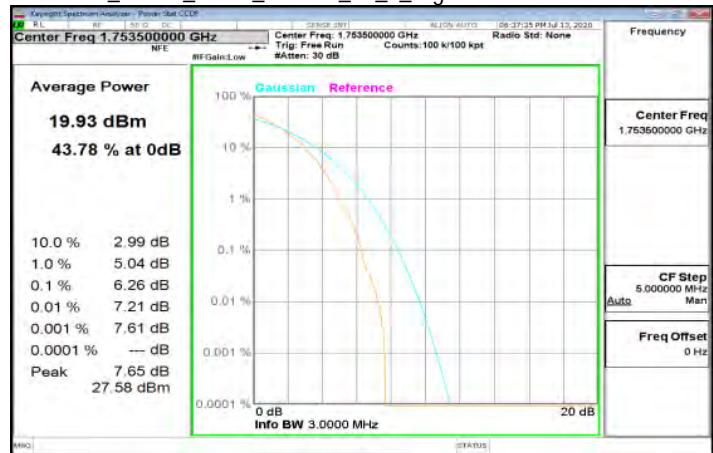
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LTE_Band4_1_4MHz_64QAM_6_0_LowCH19957-1710.7

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

LTE_Band4_1_4MHz_64QAM_6_0_HighCH20393-1754.3

LTE_Band4_3MHz_64QAM_15_0_HighCH20385-1753.5


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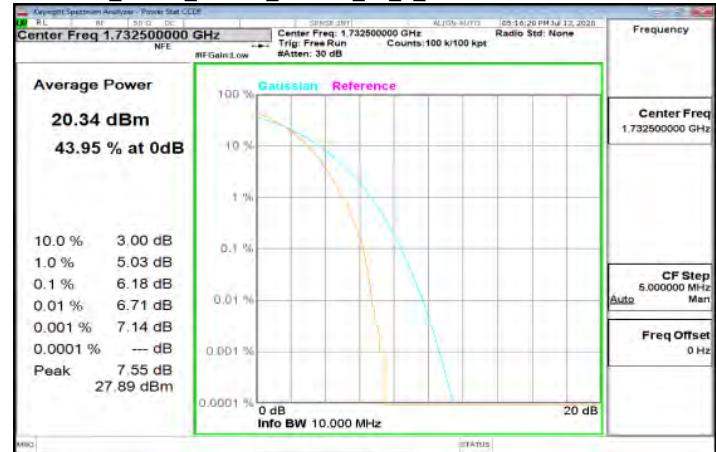
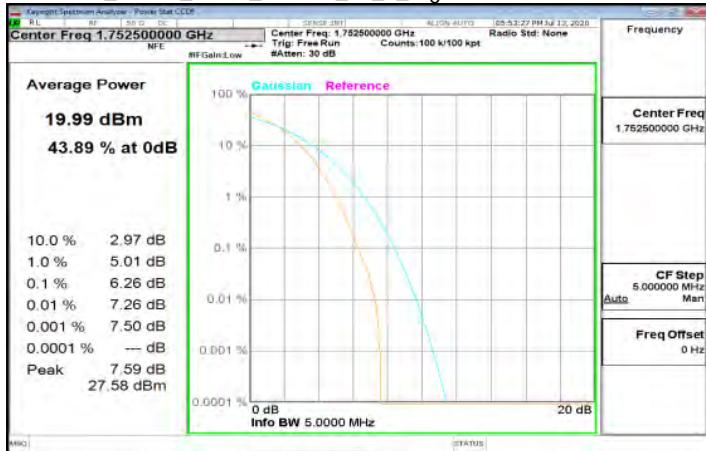
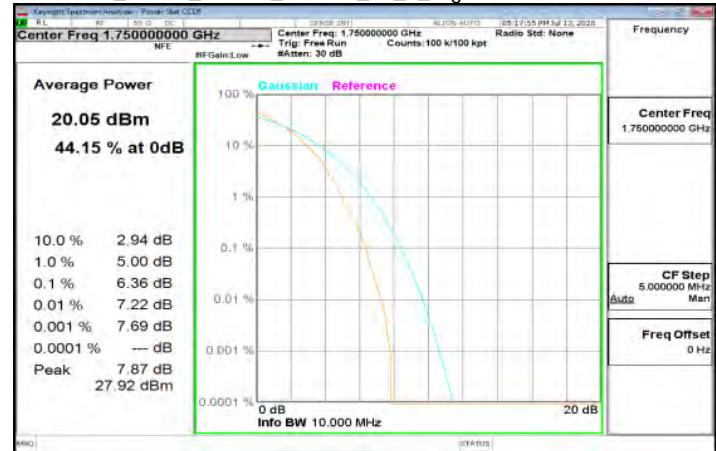
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LTE_Band4_5MHz_64QAM_25_0_MidCH20175-1732.5

LTE_Band4_10MHz_64QAM_50_0_MidCH20175-1732.5

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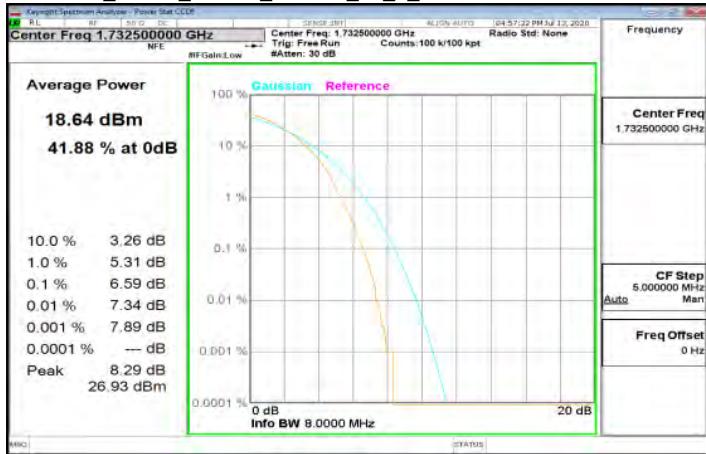
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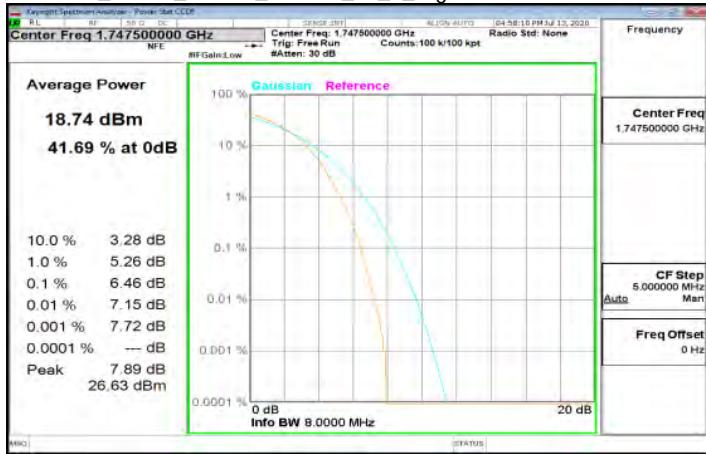
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LTE_Band4_15MHz_64QAM_75_0_LowCH20025-1717.5

LTE_Band4_20MHz_64QAM_100_0_LowCH20050-1720

LTE_Band4_15MHz_64QAM_75_0_MidCH20175-1732.5

LTE_Band4_20MHz_64QAM_100_0_MidCH20175-1732.5

LTE_Band4_15MHz_64QAM_75_0_HighCH20325-1747.5

LTE_Band4_20MHz_64QAM_100_0_HighCH20300-1745


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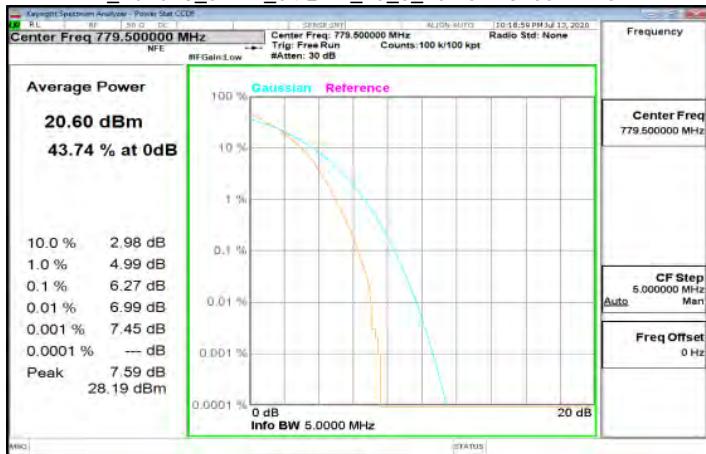
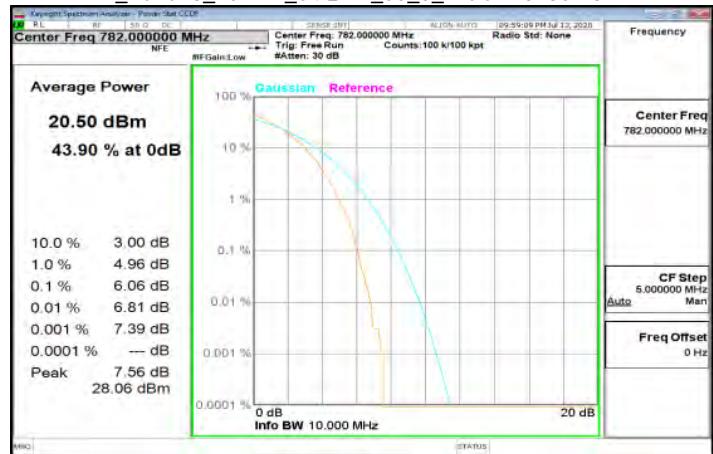
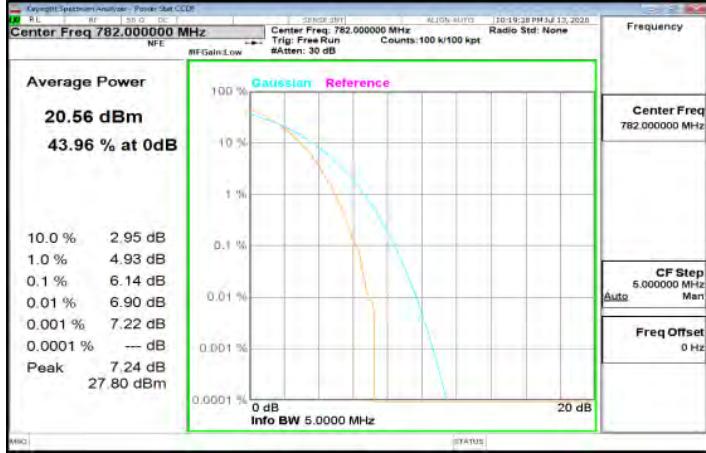
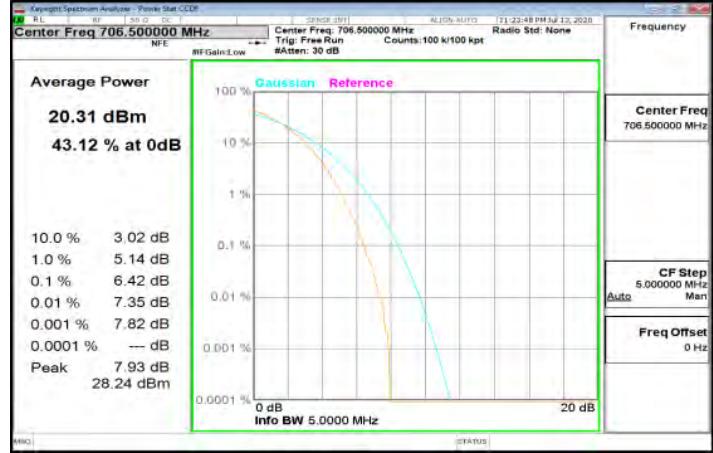
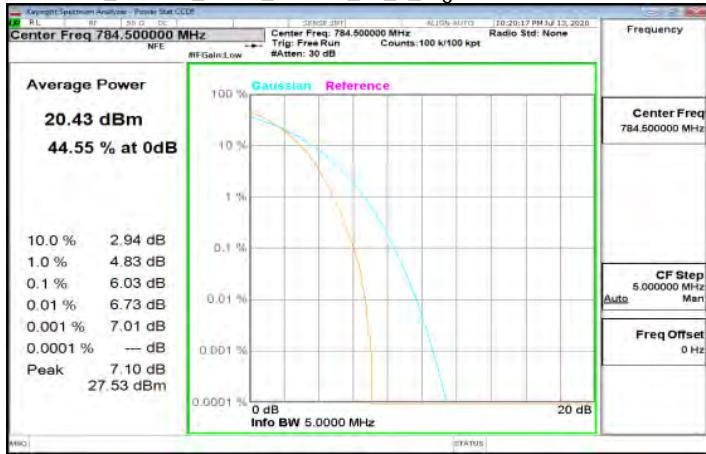
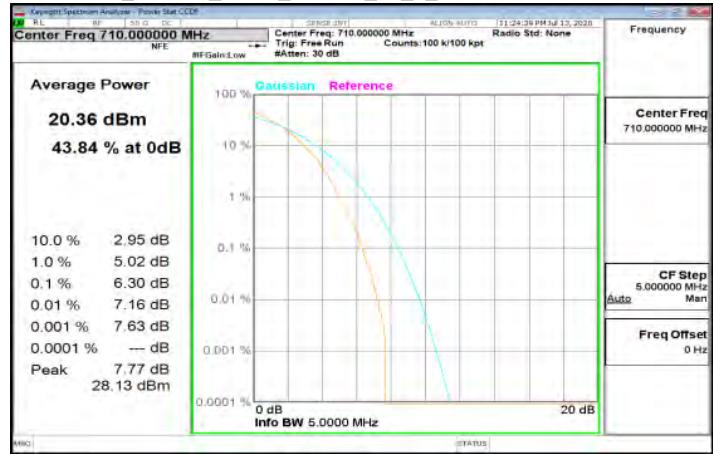
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LTE_Band13_5MHz_64QAM_25_0_MidCH23230-782

LTE_Band17_5MHz_64QAM_25_0_LowCH23755-706.5

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LTE_Band17_5MHz_64QAM_25_0_MidCH23790-710


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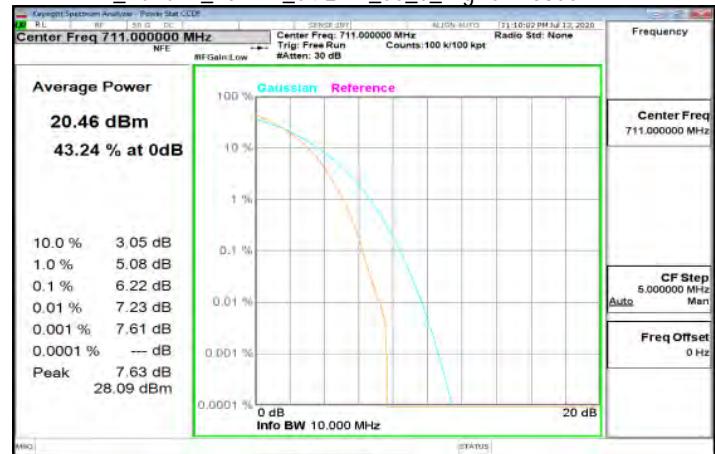
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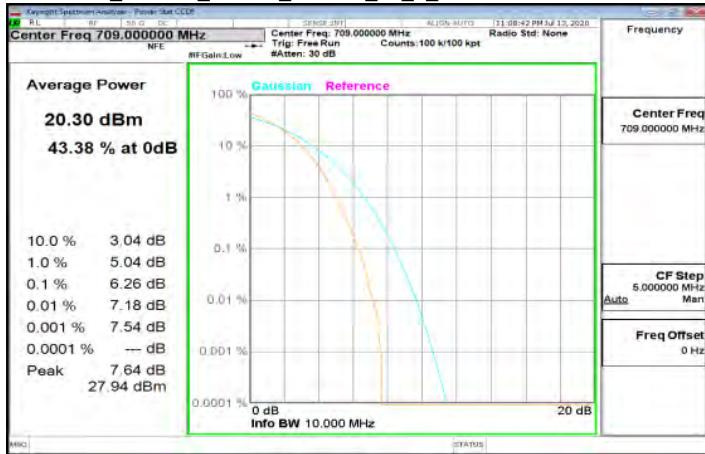
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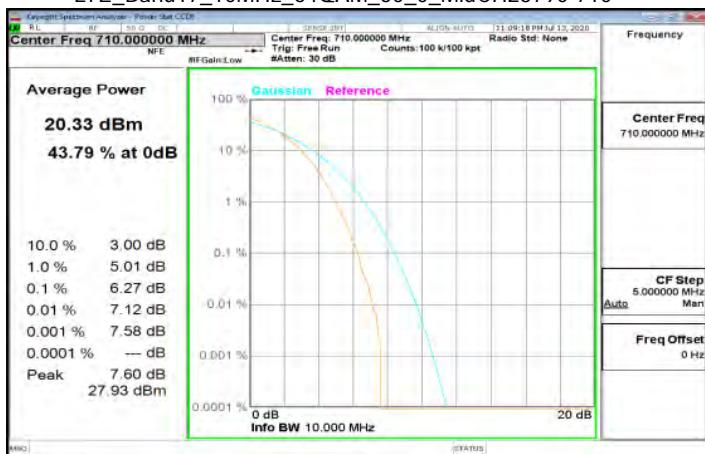
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LTE_Band17_10MHz_64QAM_50_0_MidCH23790-710



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