

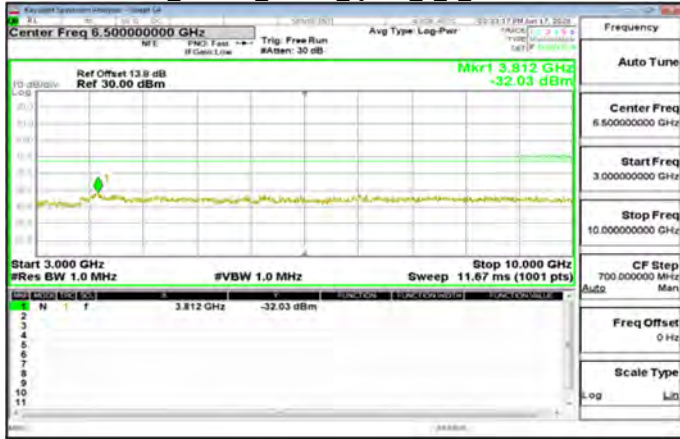
30MHz~3GHz_Band71_20MHz_QPSK_1_0_LowCH133222-673



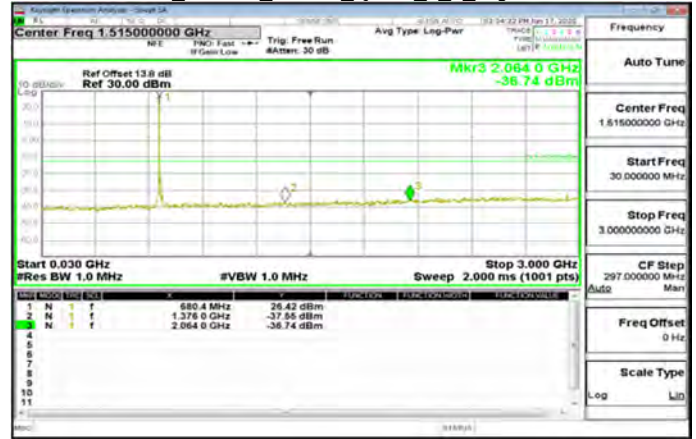
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3GHz~10GHz_Band71_20MHz_QPSK_1_0_LowCH133222-673



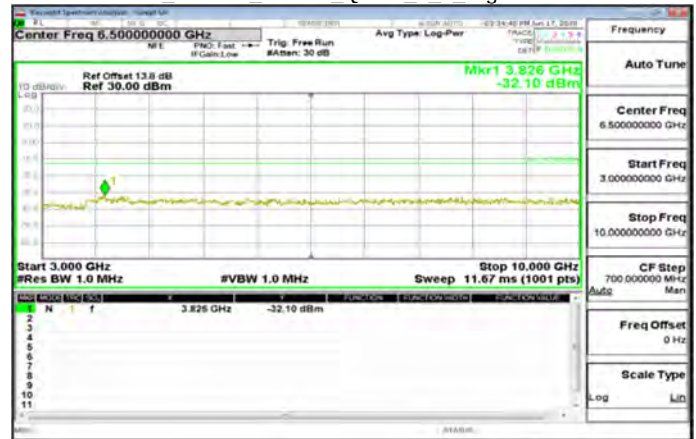
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30MHz~3GHz_Band71_20MHz_QPSK_1_0_MidCH133297-680.5



3GHz~10GHz_Band71_20MHz_QPSK_1_0_HighCH133372-688



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.691

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-195 §5.6, RSS-199 §4.5

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(a) for LTE B30

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

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

(ii) By a factor of not less than $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53 (f) for LTE B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12, 13, 71

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.

RSS-130 §4.7.1 for LTE B12, 13, 71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

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RSS-130 §4.7.2 for LTE B13

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

$65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

FCC §27.53(h)(3) for LTE B4, 66

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

RSS-139 §6.6 for LTE B4, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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FCC §27.53(m) (4) (6) for LTE B7, 38, 41

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

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

RSS-199 §4.5 for LTE B7, 38, 41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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§90.691 Emission mask requirements for EA-based systems for LTE B26

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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

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

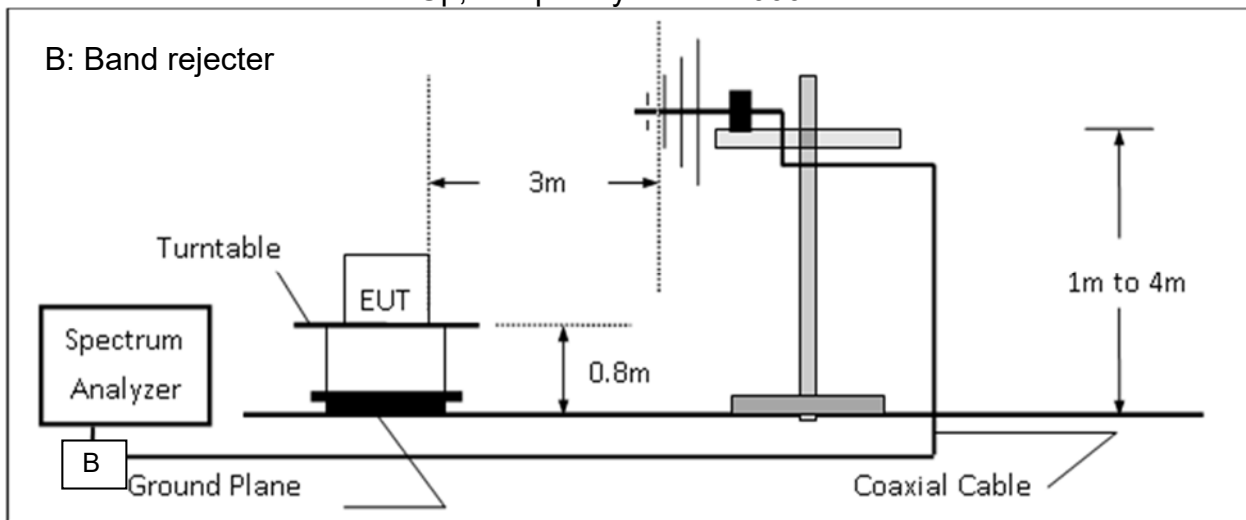
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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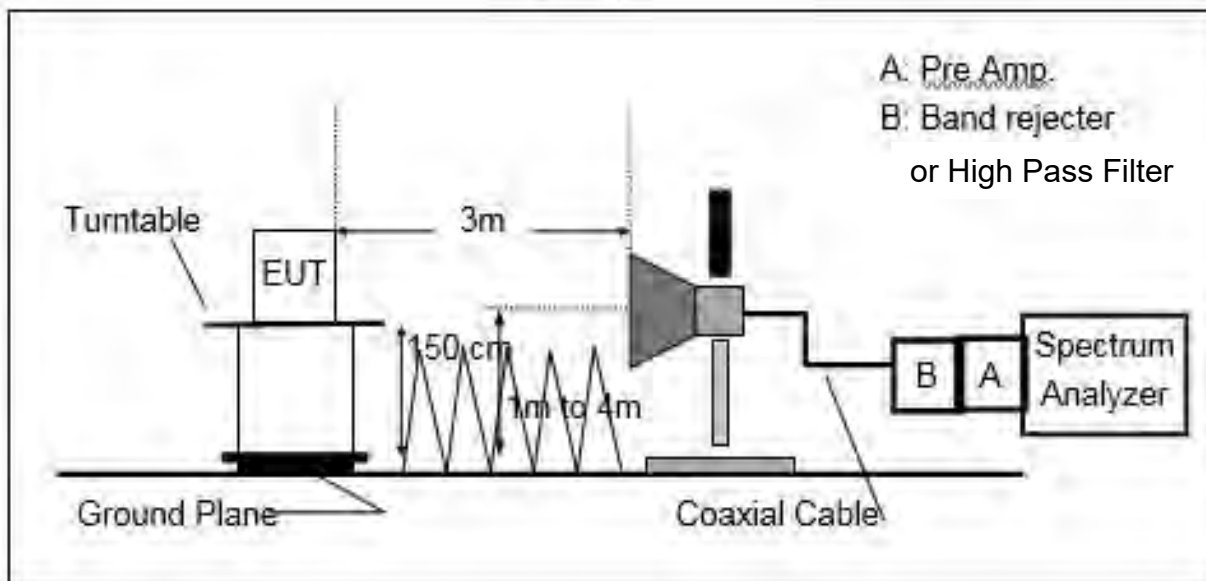
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 Measurement Procedure:

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

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

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

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

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

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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.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
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
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	100759	07/04/2019	07/03/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	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
Filter 3300-3800	Micro-Tronics	WI	1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	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
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

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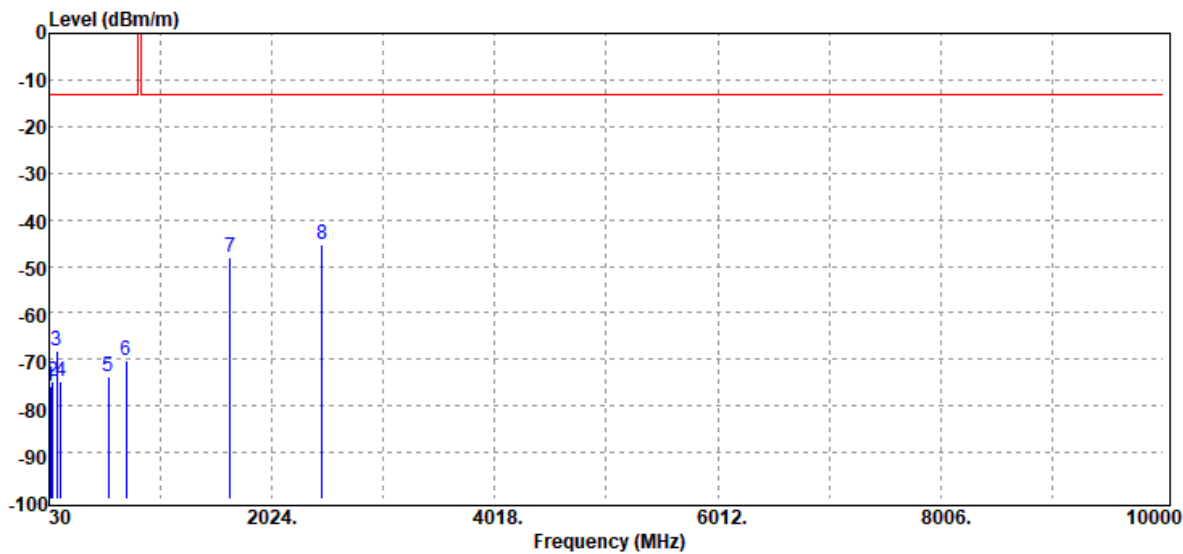
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9.5 Measurement Result:

Report Number :ER/2020/30083
 Operation Mode :GPRS 850
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane
 Test Frequency :824.2 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



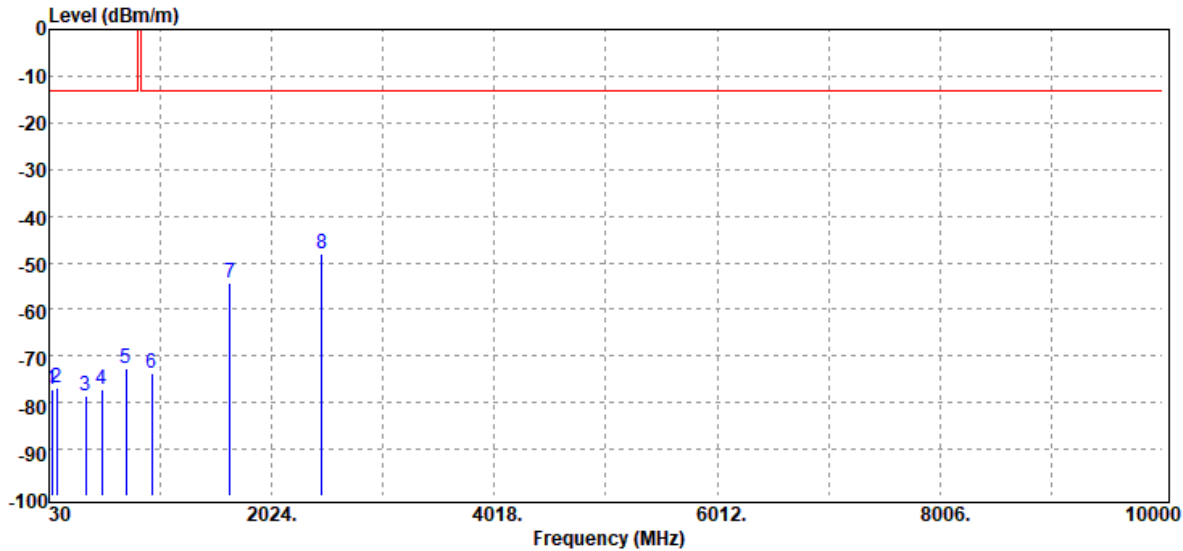
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-75.62	-55.81	-19.21	-0.60	-13.00	-62.62
61.04	-74.84	-59.48	-14.61	-0.75	-13.00	-61.84
100.81	-68.11	-60.96	-6.20	-0.95	-13.00	-55.11
136.70	-74.62	-65.66	-7.91	-1.05	-13.00	-61.62
560.59	-73.67	-70.02	-1.37	-2.28	-13.00	-60.67
719.67	-70.13	-66.30	-1.19	-2.64	-13.00	-57.13
1648.40	-48.12	-54.05	9.79	-3.86	-13.00	-35.12
2472.60	-45.37	-51.38	10.78	-4.77	-13.00	-32.37

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Report Number :ER/2020/30083
Operation Mode :GPRS 850
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :824.2 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


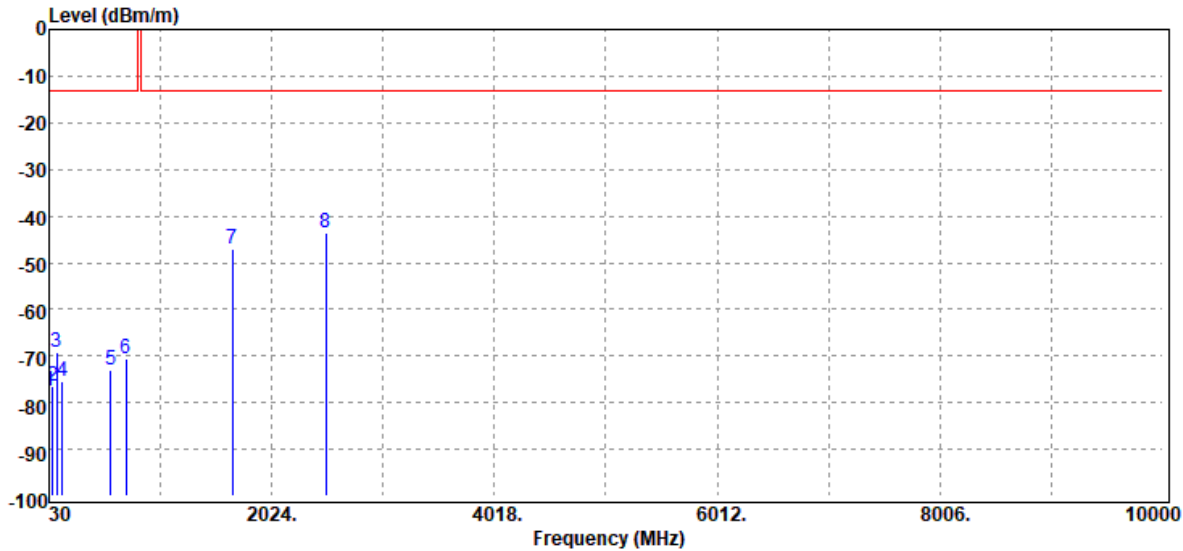
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-77.25	-60.19	-16.39	-0.67	-13.00	-64.25
100.81	-76.90	-69.75	-6.20	-0.95	-13.00	-63.90
359.80	-78.55	-75.34	-1.50	-1.71	-13.00	-65.55
502.39	-77.16	-73.43	-1.45	-2.28	-13.00	-64.16
720.64	-72.75	-68.89	-1.21	-2.65	-13.00	-59.75
949.56	-73.59	-68.95	-1.89	-2.75	-13.00	-60.59
1648.40	-54.19	-60.12	9.79	-3.86	-13.00	-41.19
2472.60	-47.94	-53.95	10.78	-4.77	-13.00	-34.94

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Report Number :ER/2020/30083
Operation Mode :GPRS 850
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



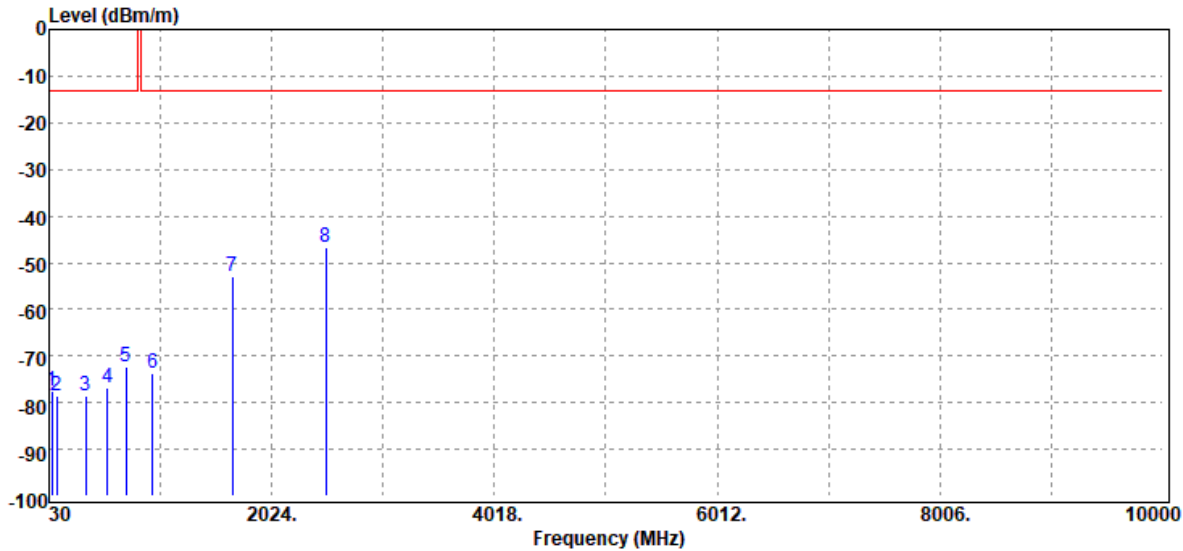
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-77.38	-57.56	-19.23	-0.59	-13.00	-64.38
61.04	-76.48	-61.12	-14.61	-0.75	-13.00	-63.48
100.81	-69.22	-62.07	-6.20	-0.95	-13.00	-56.22
151.25	-75.41	-66.76	-7.43	-1.22	-13.00	-62.41
584.84	-73.12	-68.90	-1.68	-2.54	-13.00	-60.12
721.61	-70.73	-66.82	-1.26	-2.65	-13.00	-57.73
1673.20	-47.06	-52.96	9.80	-3.90	-13.00	-34.06
2509.80	-43.53	-49.75	11.04	-4.82	-13.00	-30.53

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Report Number :ER/2020/30083
Operation Mode :GPRS 850
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-77.63	-60.57	-16.39	-0.67	-13.00	-64.63
99.84	-78.61	-71.65	-6.01	-0.95	-13.00	-65.61
356.89	-78.42	-75.17	-1.51	-1.74	-13.00	-65.42
555.74	-76.71	-73.12	-1.34	-2.25	-13.00	-63.71
720.64	-72.38	-68.52	-1.21	-2.65	-13.00	-59.38
959.26	-73.69	-68.87	-1.79	-3.03	-13.00	-60.69
1673.20	-52.79	-58.69	9.80	-3.90	-13.00	-39.79
2509.80	-46.75	-52.97	11.04	-4.82	-13.00	-33.75

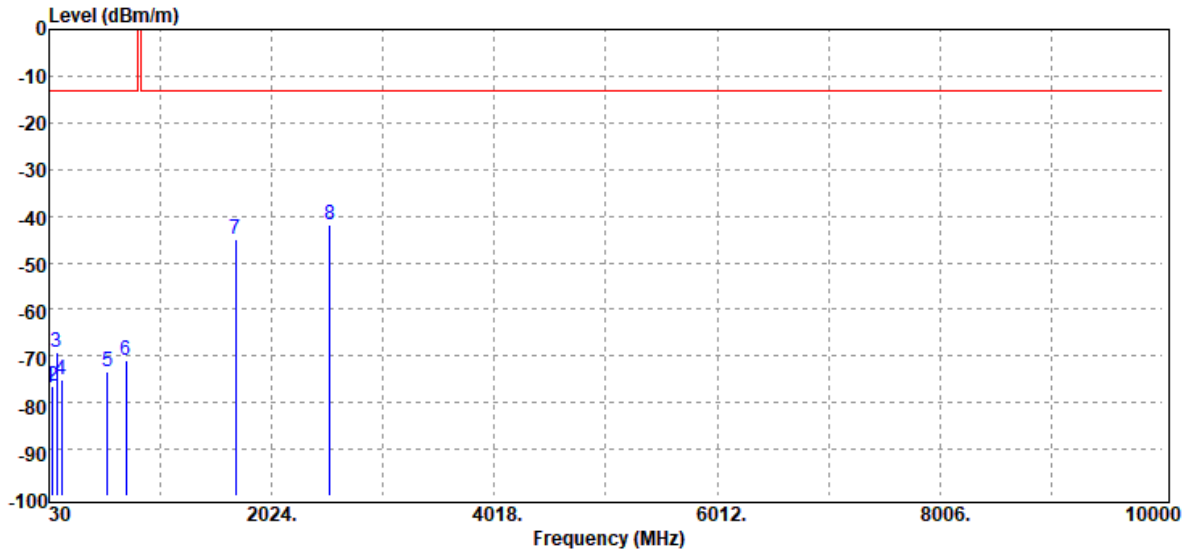
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Report Number :ER/2020/30083
Operation Mode :GPRS 850
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :848.8 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



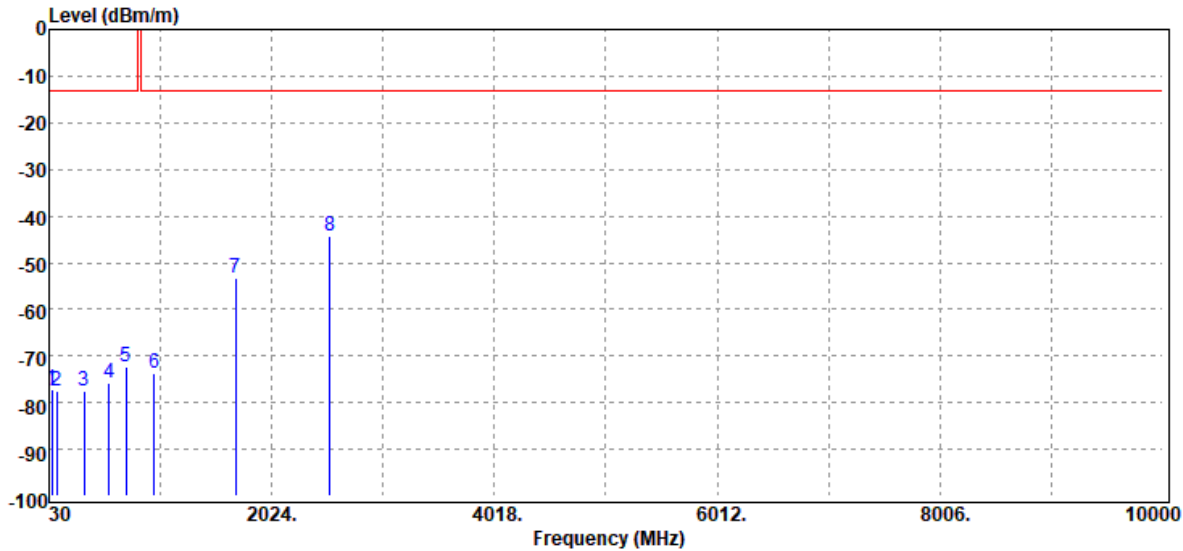
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-76.84	-56.62	-19.65	-0.57	-13.00	-63.84
61.04	-76.43	-61.07	-14.61	-0.75	-13.00	-63.43
100.81	-69.23	-62.08	-6.20	-0.95	-13.00	-56.23
138.64	-75.25	-66.22	-7.95	-1.08	-13.00	-62.25
550.89	-73.32	-69.87	-1.24	-2.21	-13.00	-60.32
718.70	-70.85	-67.00	-1.22	-2.63	-13.00	-57.85
1697.60	-44.86	-50.73	9.80	-3.93	-13.00	-31.86
2546.40	-41.88	-48.21	11.19	-4.86	-13.00	-28.88

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Report Number :ER/2020/30083
Operation Mode :GPRS 850
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :848.8 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



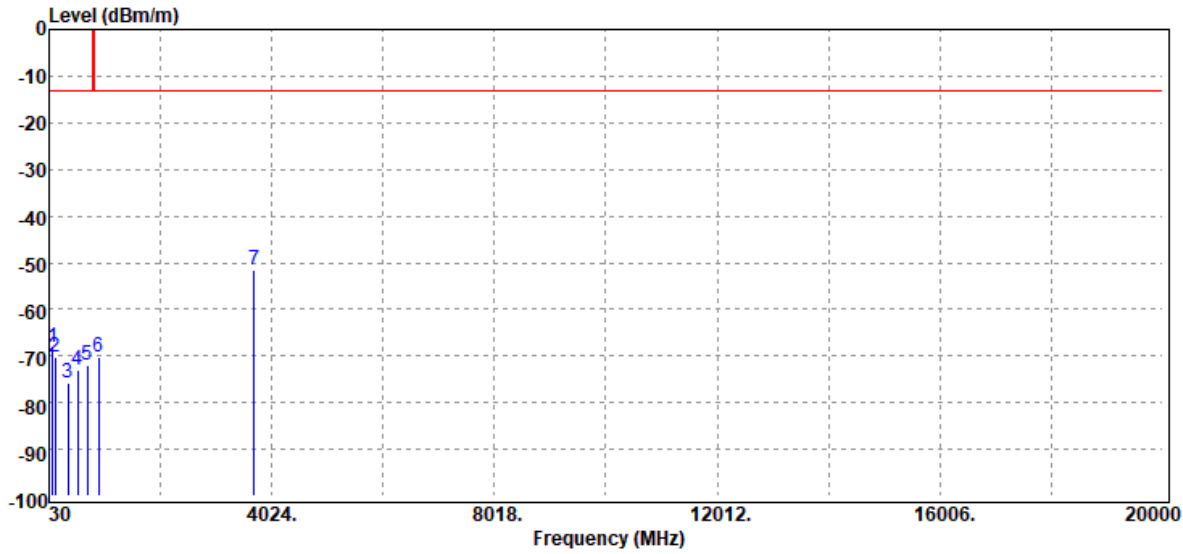
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-77.09	-60.03	-16.39	-0.67	-13.00	-64.09
100.81	-77.40	-70.25	-6.20	-0.95	-13.00	-64.40
347.19	-77.52	-74.12	-1.56	-1.84	-13.00	-64.52
566.41	-75.93	-72.22	-1.42	-2.29	-13.00	-62.93
720.64	-72.34	-68.48	-1.21	-2.65	-13.00	-59.34
967.99	-73.59	-68.67	-1.81	-3.11	-13.00	-60.59
1697.60	-53.45	-59.32	9.80	-3.93	-13.00	-40.45
2546.40	-44.14	-50.47	11.19	-4.86	-13.00	-31.14

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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1850.2 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.03	-61.07	-6.01	-0.95	-13.00	-55.03
143.49	-70.41	-61.43	-7.84	-1.14	-13.00	-57.41
366.59	-75.74	-72.43	-1.58	-1.73	-13.00	-62.74
537.31	-73.17	-69.95	-1.32	-1.90	-13.00	-60.17
721.61	-72.04	-68.13	-1.26	-2.65	-13.00	-59.04
925.31	-70.40	-65.70	-1.91	-2.79	-13.00	-57.40
3700.40	-51.69	-58.23	12.40	-5.86	-13.00	-38.69

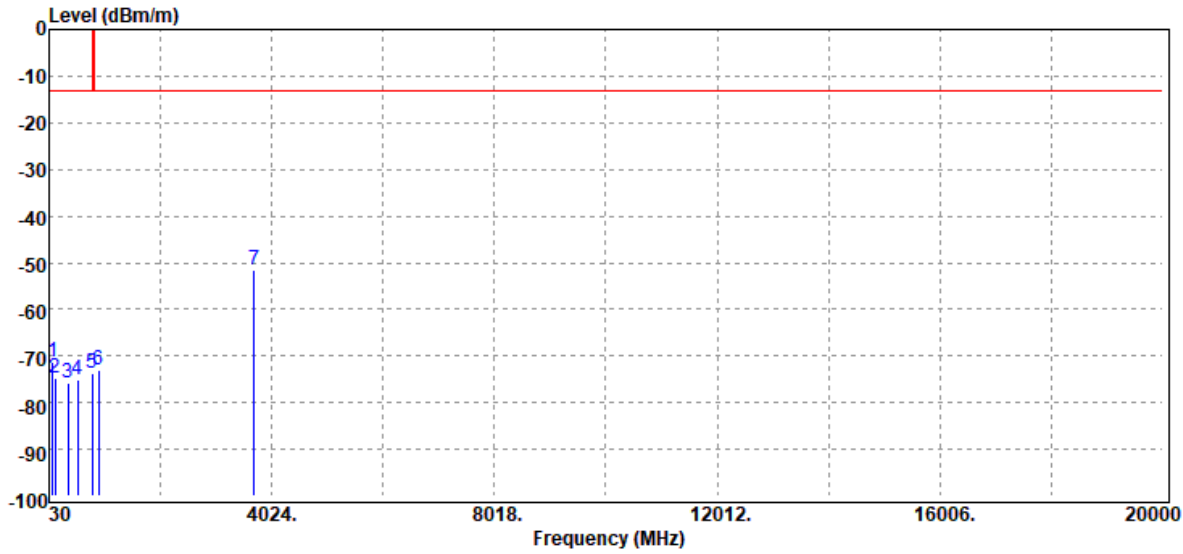
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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1850.2 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-71.44	-64.48	-6.01	-0.95	-13.00	-58.44
143.49	-74.63	-65.65	-7.84	-1.14	-13.00	-61.63
364.65	-75.66	-72.36	-1.58	-1.72	-13.00	-62.66
544.10	-75.14	-71.89	-1.21	-2.04	-13.00	-62.14
801.15	-73.58	-69.18	-1.58	-2.82	-13.00	-60.58
914.64	-72.92	-68.18	-1.79	-2.95	-13.00	-59.92
3700.40	-51.52	-58.06	12.40	-5.86	-13.00	-38.52

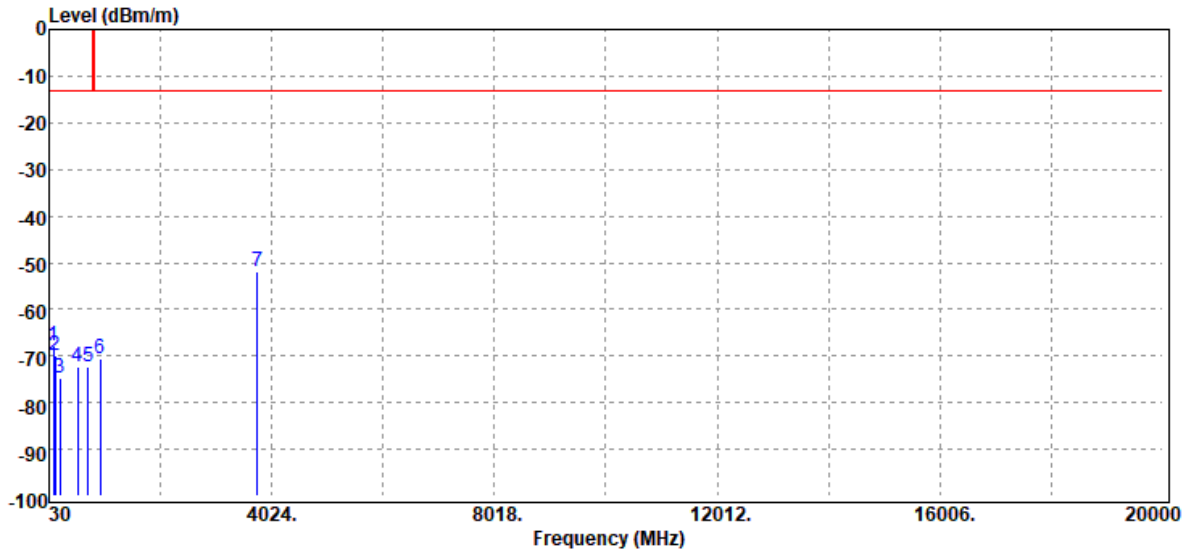
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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



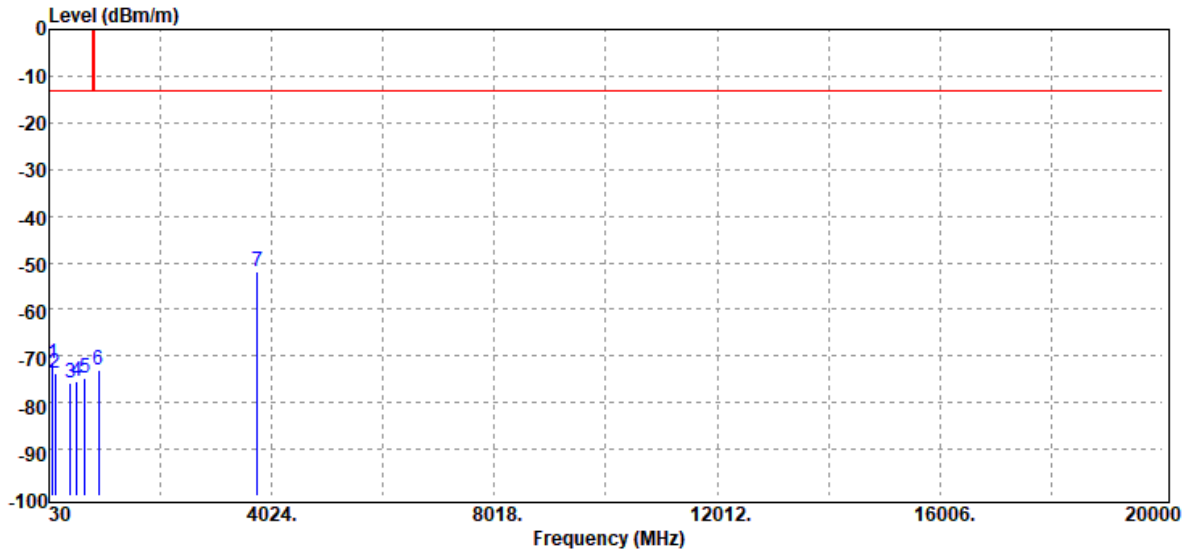
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.60	-67.85	-59.91	-6.95	-0.99	-13.00	-54.85
144.46	-70.01	-61.07	-7.79	-1.15	-13.00	-57.01
231.76	-74.83	-71.89	-1.50	-1.44	-13.00	-61.83
544.10	-72.43	-69.18	-1.21	-2.04	-13.00	-59.43
736.16	-72.33	-67.98	-1.63	-2.72	-13.00	-59.33
941.80	-70.44	-65.80	-1.98	-2.66	-13.00	-57.44
3760.00	-51.93	-58.59	12.40	-5.74	-13.00	-38.93

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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-71.71	-64.75	-6.01	-0.95	-13.00	-58.71
143.49	-73.80	-64.82	-7.84	-1.14	-13.00	-60.80
408.30	-75.91	-72.63	-1.41	-1.87	-13.00	-62.91
526.64	-75.56	-72.29	-1.33	-1.94	-13.00	-62.56
673.11	-74.87	-70.74	-1.46	-2.67	-13.00	-61.87
922.40	-73.01	-68.29	-1.88	-2.84	-13.00	-60.01
3760.00	-52.03	-58.69	12.40	-5.74	-13.00	-39.03

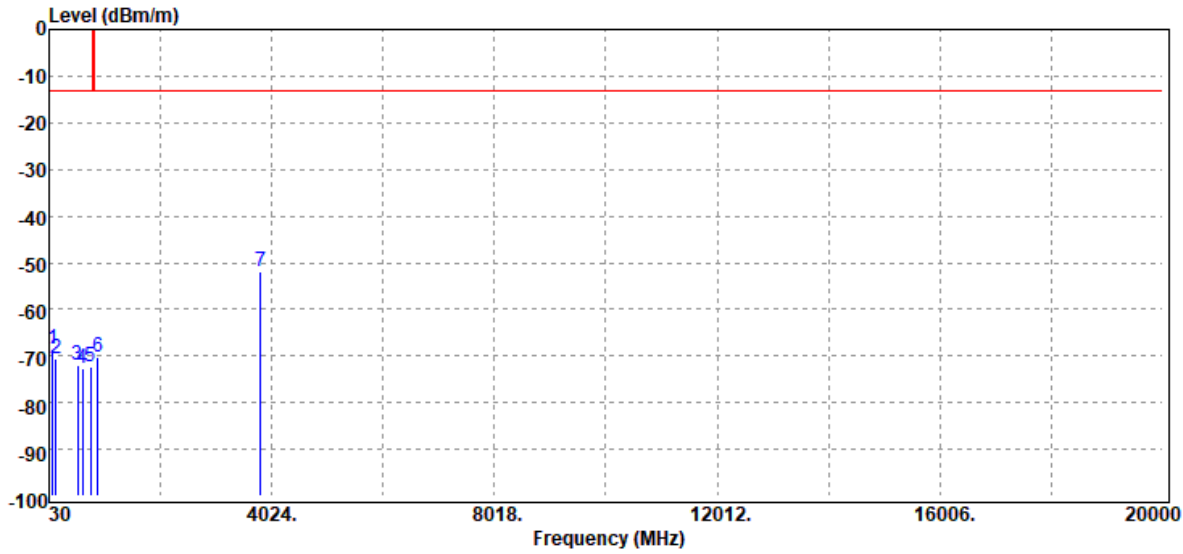
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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1909.8 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



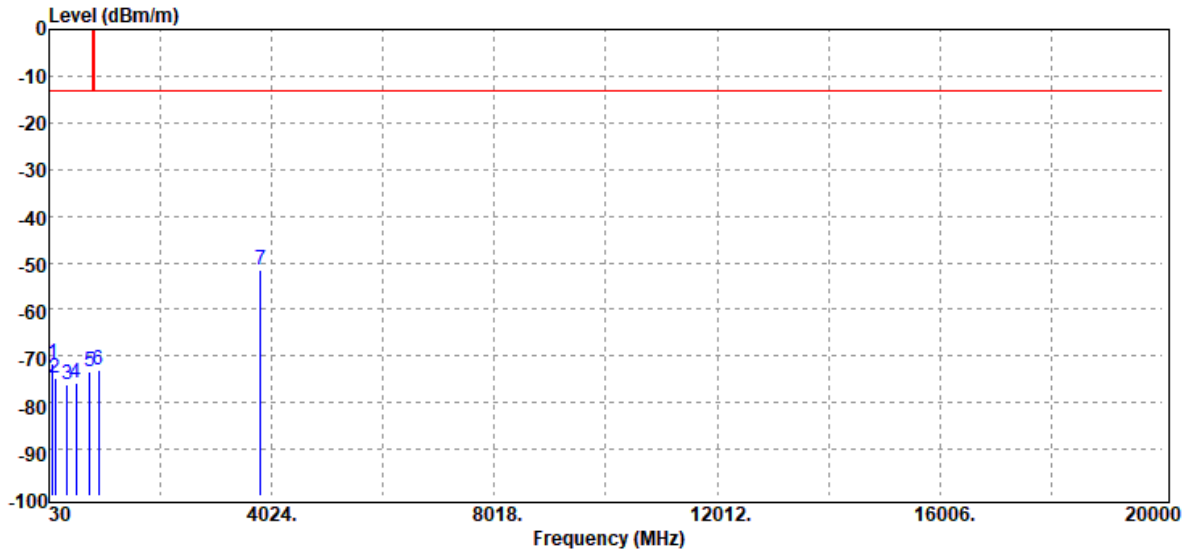
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.48	-61.33	-6.20	-0.95	-13.00	-55.48
149.31	-70.49	-61.67	-7.61	-1.21	-13.00	-57.49
542.16	-72.00	-68.77	-1.24	-1.99	-13.00	-59.00
631.40	-72.63	-68.77	-1.52	-2.34	-13.00	-59.63
778.84	-72.22	-68.24	-1.72	-2.26	-13.00	-59.22
910.76	-70.24	-65.49	-1.75	-3.00	-13.00	-57.24
3819.60	-51.78	-58.43	12.44	-5.79	-13.00	-38.78

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Report Number :ER/2020/30083
Operation Mode :GPRS 1900
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1909.8 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-71.54	-65.03	-5.58	-0.93	-13.00	-58.54
138.64	-74.71	-65.68	-7.95	-1.08	-13.00	-61.71
352.04	-75.97	-72.62	-1.54	-1.81	-13.00	-62.97
510.15	-75.87	-71.92	-1.57	-2.38	-13.00	-62.87
754.59	-73.27	-68.71	-1.76	-2.80	-13.00	-60.27
914.64	-73.08	-68.34	-1.79	-2.95	-13.00	-60.08
3819.60	-51.39	-58.04	12.44	-5.79	-13.00	-38.39

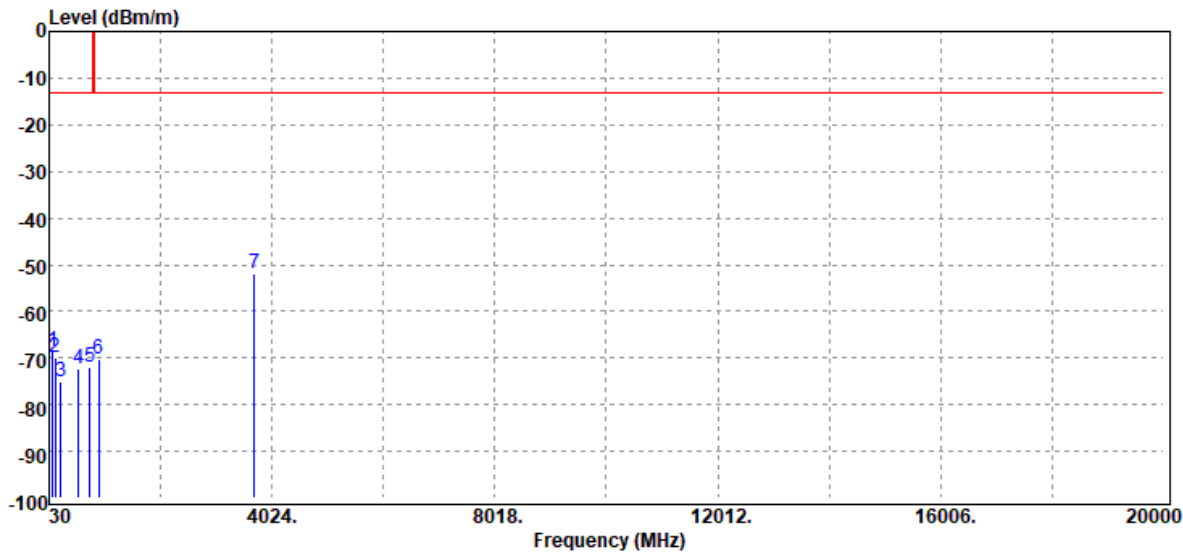
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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1852.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



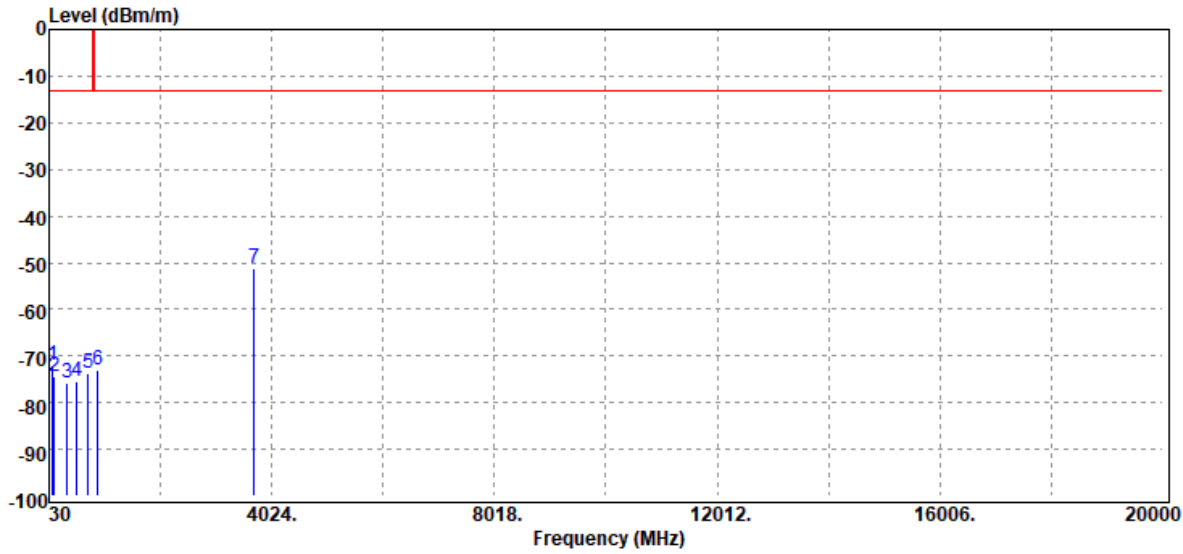
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.60	-61.45	-6.20	-0.95	-13.00	-55.60
138.64	-69.80	-60.77	-7.95	-1.08	-13.00	-56.80
238.55	-74.94	-71.75	-1.72	-1.47	-13.00	-61.94
561.56	-72.29	-68.64	-1.37	-2.28	-13.00	-59.29
764.29	-71.92	-67.72	-1.76	-2.44	-13.00	-58.92
922.40	-70.15	-65.43	-1.88	-2.84	-13.00	-57.15
3704.80	-51.87	-58.42	12.40	-5.85	-13.00	-38.87

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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1852.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
91.11	-71.93	-65.38	-5.64	-0.91	-13.00	-58.93
128.94	-74.36	-65.76	-7.61	-0.99	-13.00	-61.36
354.95	-75.75	-72.46	-1.52	-1.77	-13.00	-62.75
522.76	-75.55	-72.12	-1.36	-2.07	-13.00	-62.55
730.34	-73.58	-69.45	-1.47	-2.66	-13.00	-60.58
907.85	-72.93	-68.20	-1.72	-3.01	-13.00	-59.93
3704.80	-51.22	-57.77	12.40	-5.85	-13.00	-38.22

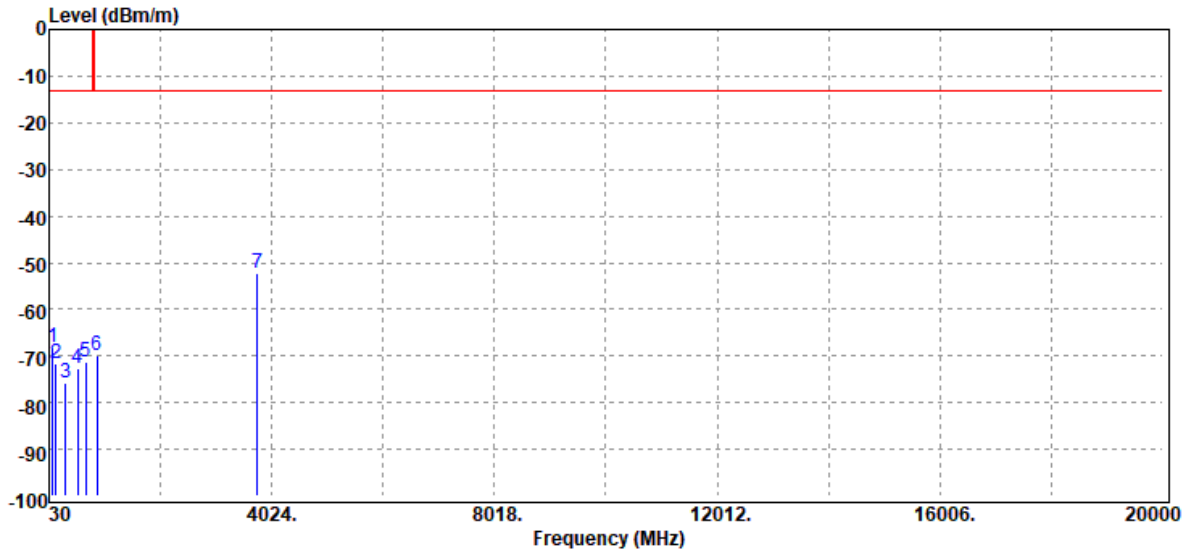
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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.19	-61.04	-6.20	-0.95	-13.00	-55.19
153.19	-71.55	-63.01	-7.32	-1.22	-13.00	-58.55
328.76	-75.80	-72.39	-1.72	-1.69	-13.00	-62.80
548.95	-72.60	-69.21	-1.22	-2.17	-13.00	-59.60
682.81	-71.45	-67.75	-1.44	-2.26	-13.00	-58.45
895.24	-69.90	-65.34	-1.59	-2.97	-13.00	-56.90
3760.00	-52.21	-58.87	12.40	-5.74	-13.00	-39.21

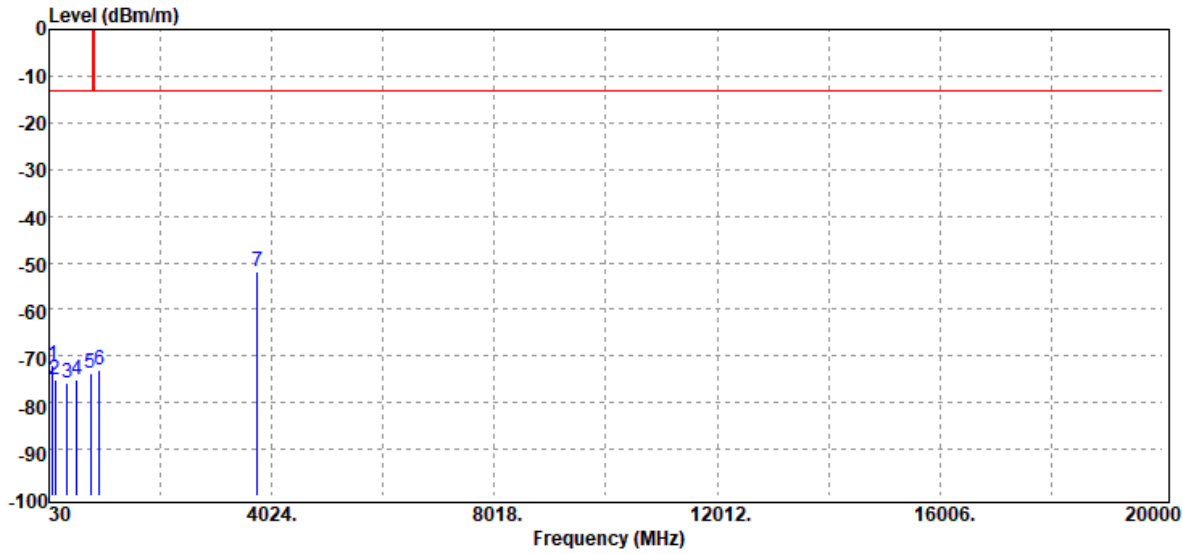
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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-71.98	-65.02	-6.01	-0.95	-13.00	-58.98
141.55	-75.09	-66.07	-7.91	-1.11	-13.00	-62.09
352.04	-75.66	-72.31	-1.54	-1.81	-13.00	-62.66
524.70	-75.15	-71.82	-1.33	-2.00	-13.00	-62.15
773.99	-73.68	-69.60	-1.87	-2.21	-13.00	-60.68
927.25	-72.91	-68.22	-1.93	-2.76	-13.00	-59.91
3760.00	-51.88	-58.54	12.40	-5.74	-13.00	-38.88

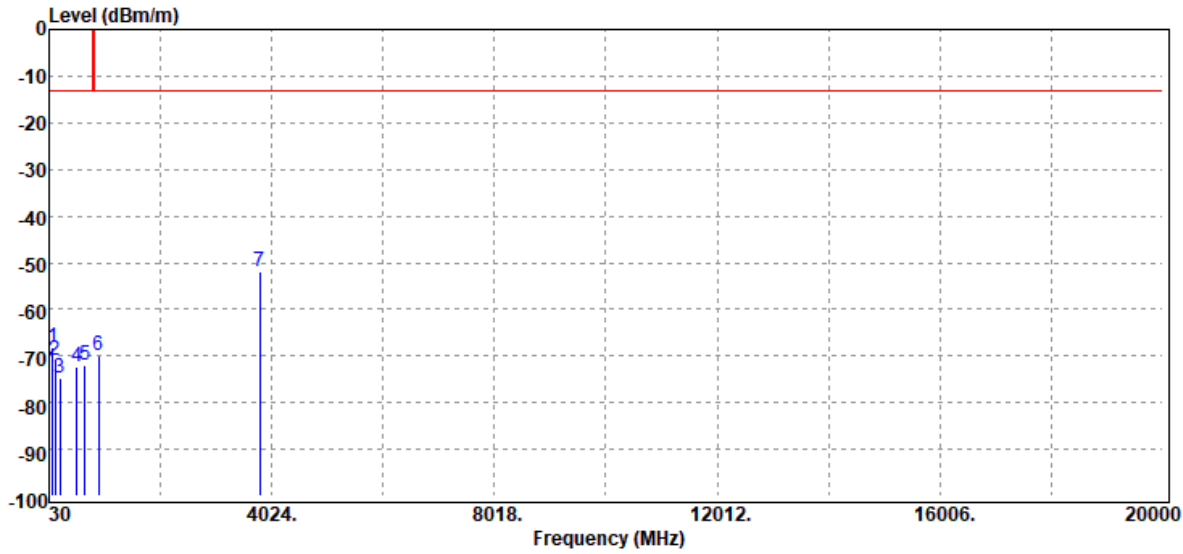
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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1907.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.30	-61.34	-6.01	-0.95	-13.00	-55.30
138.64	-71.01	-61.98	-7.95	-1.08	-13.00	-58.01
230.79	-74.60	-71.73	-1.44	-1.43	-13.00	-61.60
524.70	-72.41	-69.08	-1.33	-2.00	-13.00	-59.41
672.14	-72.02	-67.83	-1.48	-2.71	-13.00	-59.02
914.64	-69.86	-65.12	-1.79	-2.95	-13.00	-56.86
3815.20	-51.76	-58.43	12.43	-5.76	-13.00	-38.76

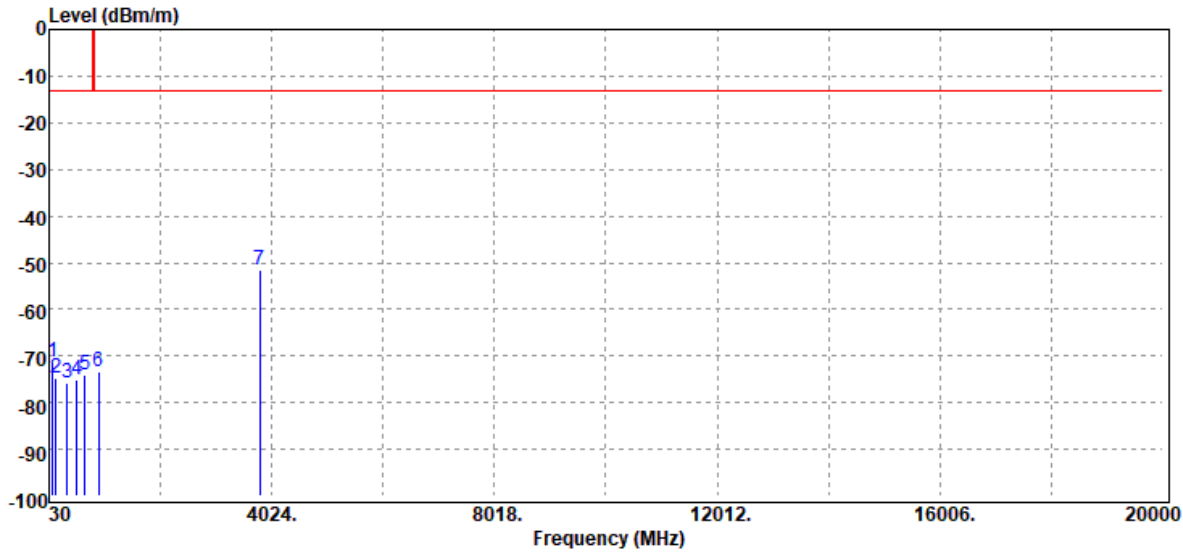
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Report Number :ER/2020/30083
Operation Mode :WCDMA B2
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1907.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-71.37	-64.87	-5.57	-0.93	-13.00	-58.37
153.19	-74.78	-66.24	-7.32	-1.22	-13.00	-61.78
353.01	-75.71	-72.39	-1.53	-1.79	-13.00	-62.71
529.55	-75.01	-71.83	-1.34	-1.84	-13.00	-62.01
679.90	-74.18	-70.36	-1.48	-2.34	-13.00	-61.18
920.46	-73.20	-68.47	-1.86	-2.87	-13.00	-60.20
3815.20	-51.52	-58.19	12.43	-5.76	-13.00	-38.52

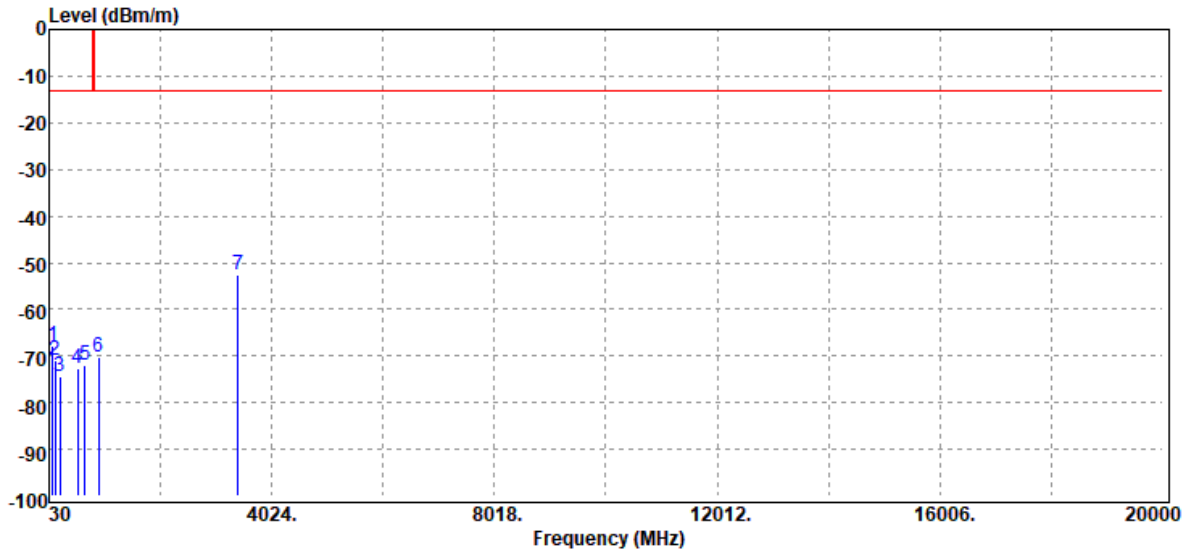
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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1712.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-67.91	-60.95	-6.01	-0.95	-13.00	-54.91
144.46	-70.79	-61.85	-7.79	-1.15	-13.00	-57.79
228.85	-74.50	-71.71	-1.37	-1.42	-13.00	-61.50
541.19	-72.60	-69.38	-1.26	-1.96	-13.00	-59.60
670.20	-72.06	-67.75	-1.50	-2.81	-13.00	-59.06
924.34	-70.34	-65.63	-1.90	-2.81	-13.00	-57.34
3424.80	-52.57	-60.10	12.70	-5.17	-13.00	-39.57

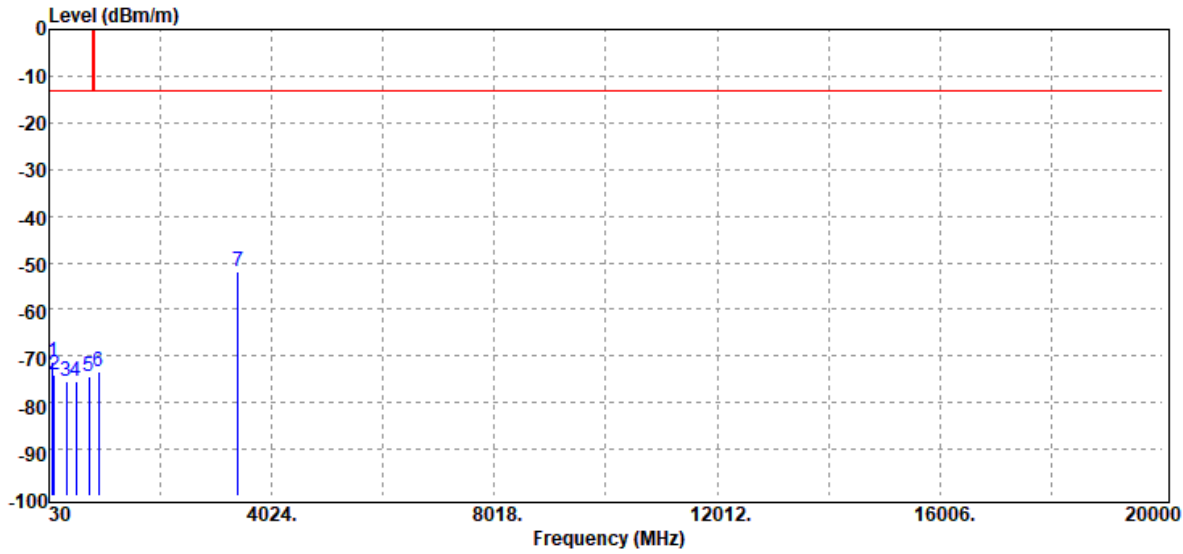
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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1712.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



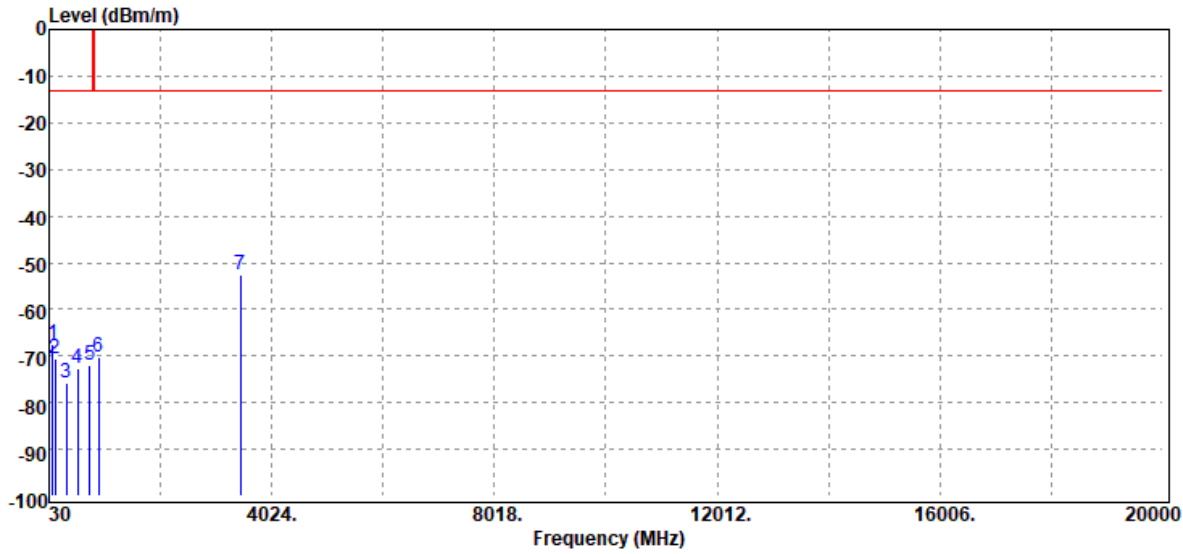
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-71.25	-64.74	-5.58	-0.93	-13.00	-58.25
124.09	-74.05	-65.56	-7.46	-1.03	-13.00	-61.05
347.19	-75.51	-72.11	-1.56	-1.84	-13.00	-62.51
512.09	-75.42	-71.54	-1.54	-2.34	-13.00	-62.42
749.74	-74.32	-69.68	-1.73	-2.91	-13.00	-61.32
914.64	-73.28	-68.54	-1.79	-2.95	-13.00	-60.28
3424.80	-51.86	-59.39	12.70	-5.17	-13.00	-38.86

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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1732.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.52	-60.37	-6.20	-0.95	-13.00	-54.52
136.70	-70.75	-61.79	-7.91	-1.05	-13.00	-57.75
342.34	-75.63	-72.13	-1.64	-1.86	-13.00	-62.63
539.25	-72.56	-69.35	-1.29	-1.92	-13.00	-59.56
757.50	-72.11	-67.60	-1.79	-2.72	-13.00	-59.11
914.64	-70.20	-65.46	-1.79	-2.95	-13.00	-57.20
3464.80	-52.56	-59.64	12.64	-5.56	-13.00	-39.56

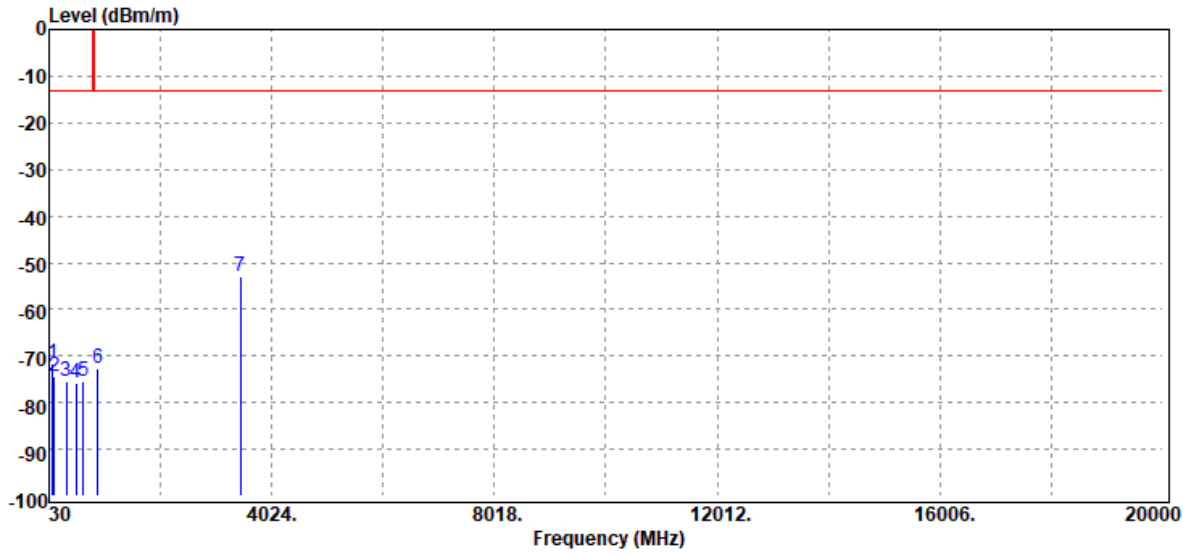
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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1732.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
90.14	-71.70	-64.99	-5.81	-0.90	-13.00	-58.70
119.24	-74.31	-65.93	-7.32	-1.06	-13.00	-61.31
342.34	-75.37	-71.87	-1.64	-1.86	-13.00	-62.37
513.06	-75.63	-71.80	-1.52	-2.31	-13.00	-62.63
641.10	-75.43	-71.44	-1.49	-2.50	-13.00	-62.43
905.91	-72.74	-68.04	-1.70	-3.00	-13.00	-59.74
3464.80	-52.85	-59.93	12.64	-5.56	-13.00	-39.85

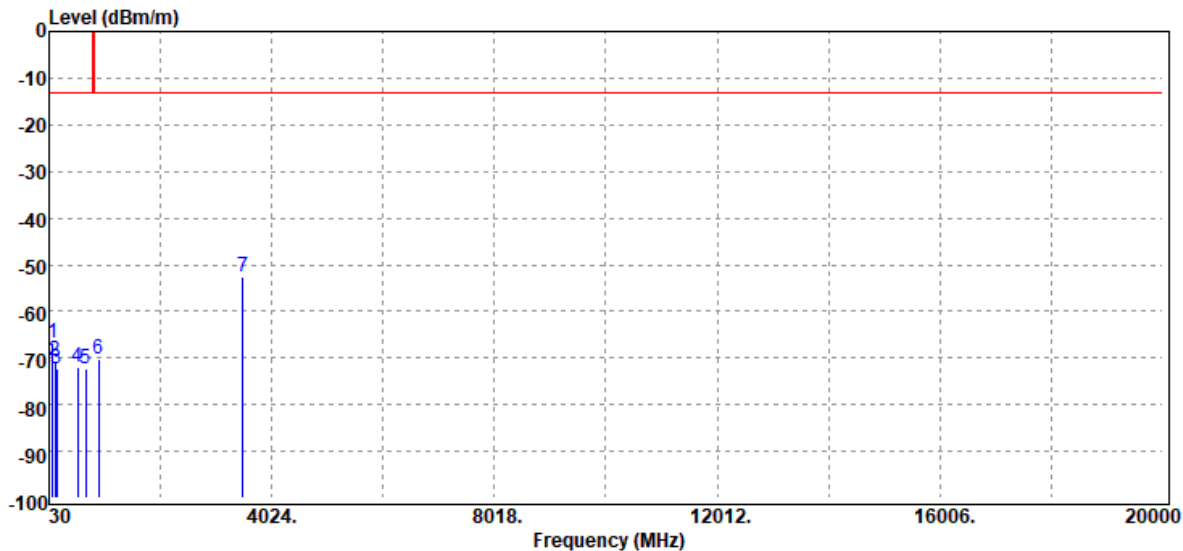
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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1752.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



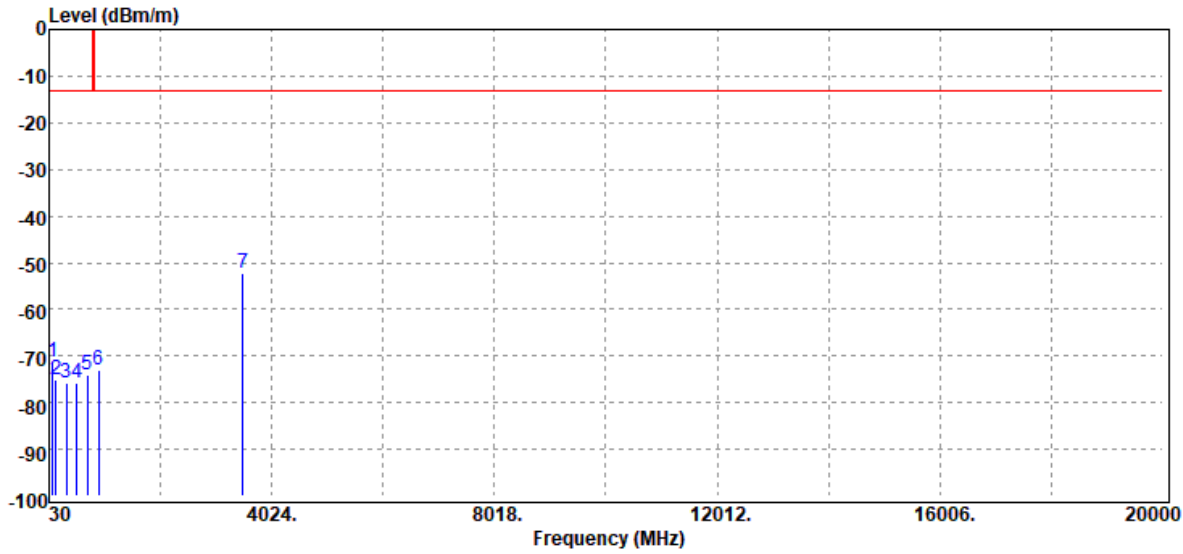
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-66.63	-59.48	-6.20	-0.95	-13.00	-53.63
136.70	-70.75	-61.79	-7.91	-1.05	-13.00	-57.75
163.86	-72.30	-64.42	-6.65	-1.23	-13.00	-59.30
546.04	-72.00	-68.71	-1.20	-2.09	-13.00	-59.00
681.84	-72.31	-68.58	-1.45	-2.28	-13.00	-59.31
919.49	-70.27	-65.54	-1.85	-2.88	-13.00	-57.27
3505.20	-52.73	-59.30	12.48	-5.91	-13.00	-39.73

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Report Number :ER/2020/30083
Operation Mode :WCDMA B4
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1752.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
91.11	-71.38	-64.83	-5.64	-0.91	-13.00	-58.38
153.19	-75.03	-66.49	-7.32	-1.22	-13.00	-62.03
347.19	-75.84	-72.44	-1.56	-1.84	-13.00	-62.84
529.55	-75.85	-72.67	-1.34	-1.84	-13.00	-62.85
715.79	-74.00	-70.10	-1.32	-2.58	-13.00	-61.00
914.64	-72.96	-68.22	-1.79	-2.95	-13.00	-59.96
3505.20	-52.38	-58.95	12.48	-5.91	-13.00	-39.38

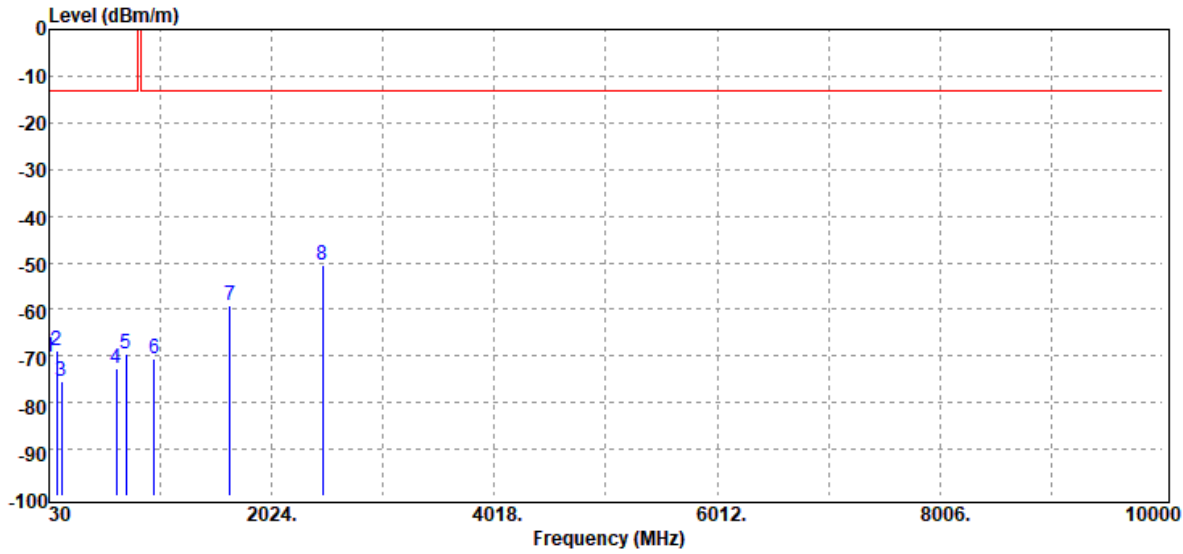
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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :826.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-70.27	-50.45	-19.23	-0.59	-13.00	-57.27
100.81	-69.01	-61.86	-6.20	-0.95	-13.00	-56.01
144.46	-75.27	-66.33	-7.79	-1.15	-13.00	-62.27
634.31	-72.76	-68.88	-1.48	-2.40	-13.00	-59.76
720.64	-69.66	-65.80	-1.21	-2.65	-13.00	-56.66
972.84	-70.71	-65.76	-1.82	-3.13	-13.00	-57.71
1652.80	-59.00	-64.93	9.80	-3.87	-13.00	-46.00
2479.20	-50.45	-56.50	10.83	-4.78	-13.00	-37.45

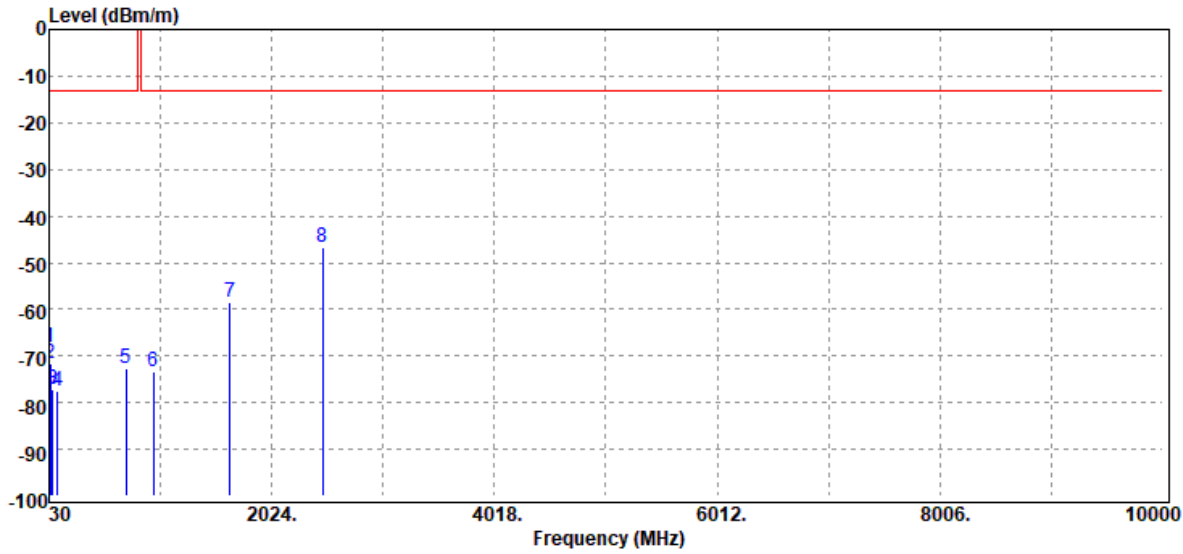
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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :826.4 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
30.00	-68.25	-46.43	-21.28	-0.54	-13.00	-55.25
39.70	-71.65	-52.09	-18.95	-0.61	-13.00	-58.65
62.01	-77.07	-61.93	-14.38	-0.76	-13.00	-64.07
102.75	-77.35	-69.95	-6.44	-0.96	-13.00	-64.35
719.67	-72.70	-68.87	-1.19	-2.64	-13.00	-59.70
961.20	-73.27	-68.42	-1.79	-3.06	-13.00	-60.27
1652.80	-58.33	-64.26	9.80	-3.87	-13.00	-45.33
2479.20	-46.72	-52.77	10.83	-4.78	-13.00	-33.72

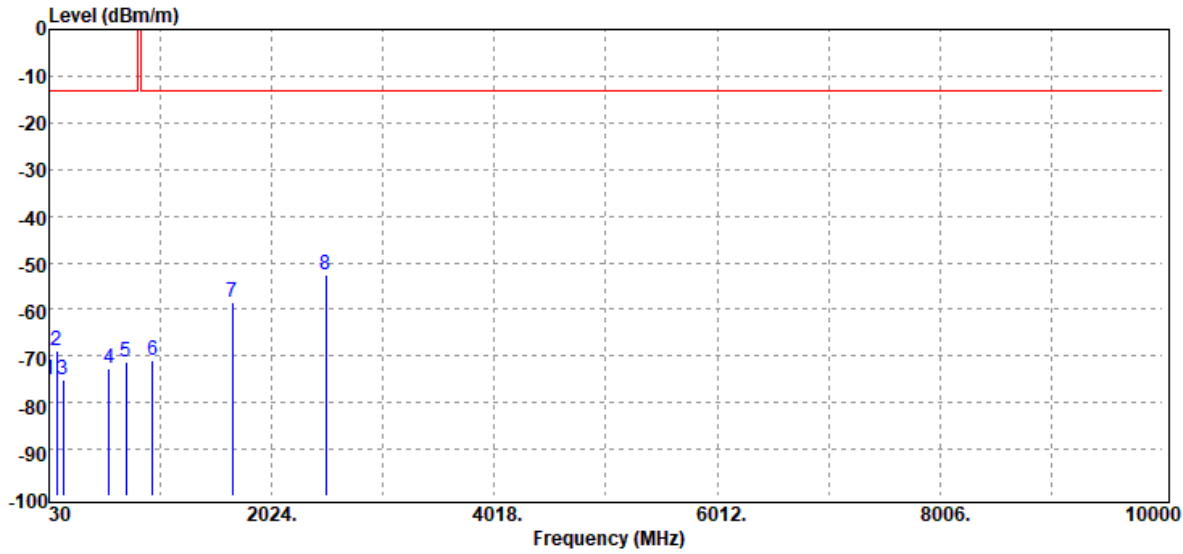
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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



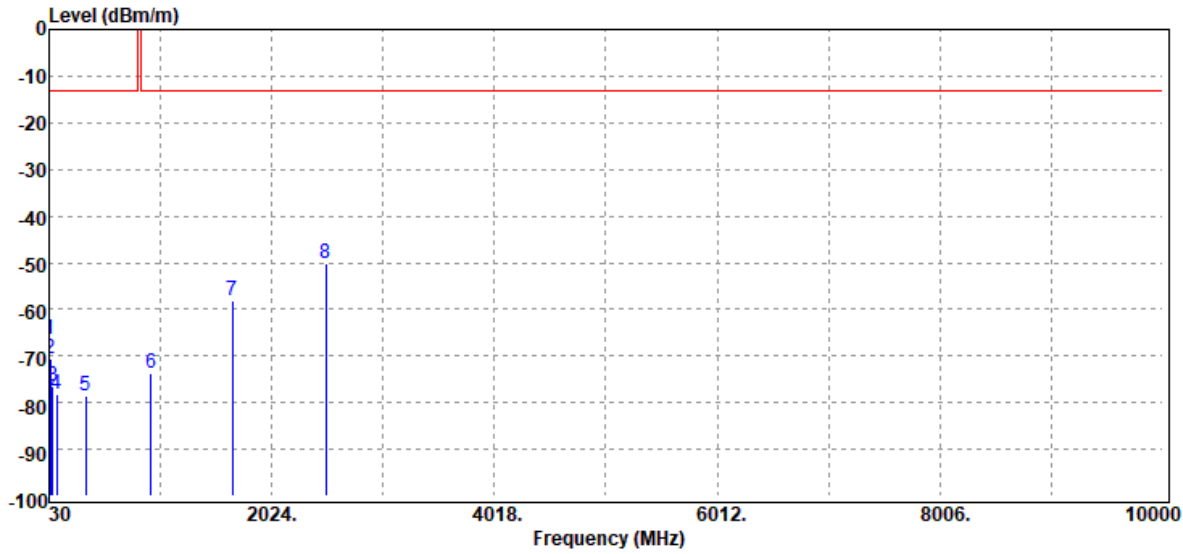
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
30.00	-75.22	-53.40	-21.28	-0.54	-13.00	-62.22
100.81	-69.00	-61.85	-6.20	-0.95	-13.00	-56.00
153.19	-74.91	-66.37	-7.32	-1.22	-13.00	-61.91
565.44	-72.77	-69.08	-1.40	-2.29	-13.00	-59.77
720.64	-71.17	-67.31	-1.21	-2.65	-13.00	-58.17
956.35	-71.03	-66.27	-1.81	-2.95	-13.00	-58.03
1673.20	-58.41	-64.31	9.80	-3.90	-13.00	-45.41
2509.80	-52.59	-58.81	11.04	-4.82	-13.00	-39.59

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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.6 MHz

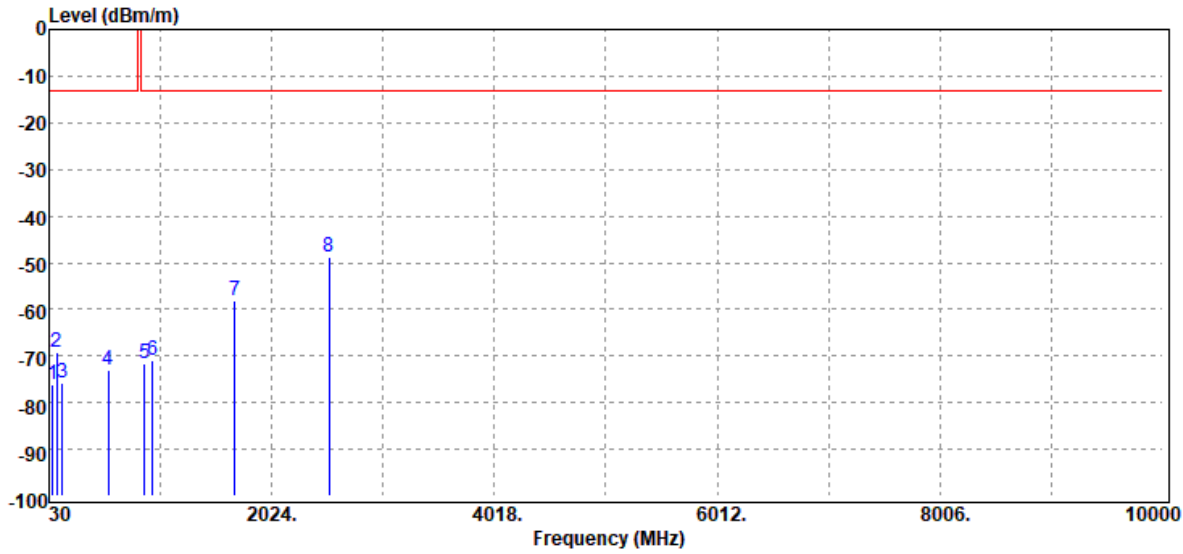
Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-66.32	-44.50	-21.28	-0.54	-13.00	-53.32
39.70	-70.43	-50.87	-18.95	-0.61	-13.00	-57.43
62.01	-76.56	-61.42	-14.38	-0.76	-13.00	-63.56
100.81	-78.24	-71.09	-6.20	-0.95	-13.00	-65.24
356.89	-78.57	-75.32	-1.51	-1.74	-13.00	-65.57
941.80	-73.72	-69.08	-1.98	-2.66	-13.00	-60.72
1673.20	-58.22	-64.12	9.80	-3.90	-13.00	-45.22
2509.80	-50.34	-56.56	11.04	-4.82	-13.00	-37.34

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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :846.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
59.10	-76.03	-60.12	-15.18	-0.73	-13.00	-63.03
100.81	-69.31	-62.16	-6.20	-0.95	-13.00	-56.31
146.40	-75.76	-66.86	-7.72	-1.18	-13.00	-62.76
558.65	-73.02	-69.39	-1.36	-2.27	-13.00	-60.02
888.45	-71.60	-67.19	-1.45	-2.96	-13.00	-58.60
956.35	-70.94	-66.18	-1.81	-2.95	-13.00	-57.94
1693.20	-58.16	-64.04	9.80	-3.92	-13.00	-45.16
2539.80	-48.90	-55.21	11.16	-4.85	-13.00	-35.90

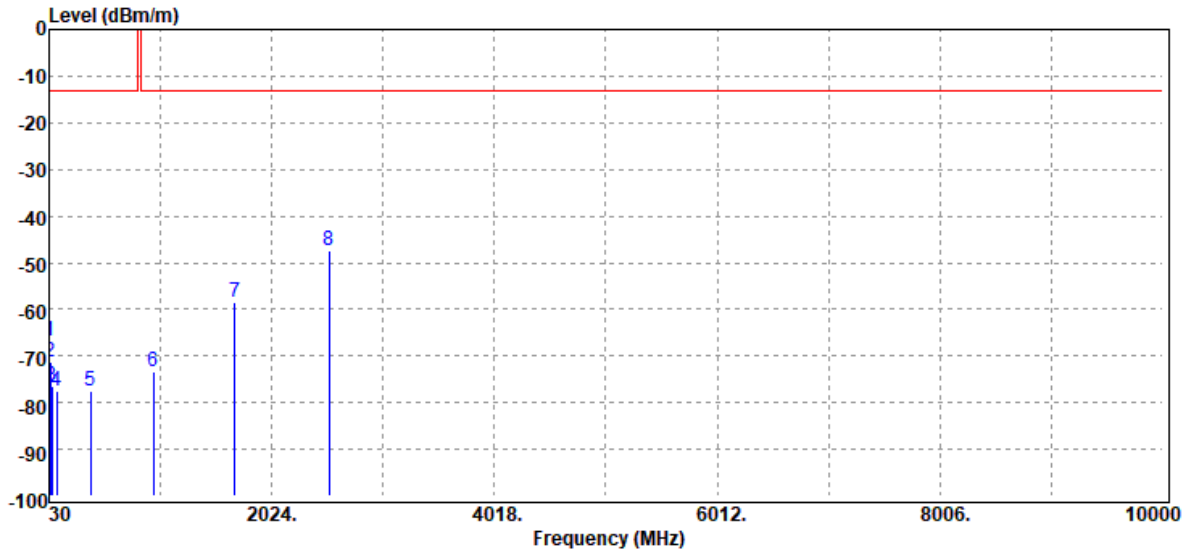
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Report Number :ER/2020/30083
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :846.6 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-66.66	-45.68	-20.43	-0.55	-13.00	-53.66
39.70	-71.15	-51.59	-18.95	-0.61	-13.00	-58.15
54.25	-76.31	-59.25	-16.39	-0.67	-13.00	-63.31
99.84	-77.48	-70.52	-6.01	-0.95	-13.00	-64.48
401.51	-77.64	-74.29	-1.48	-1.87	-13.00	-64.64
964.11	-73.48	-68.56	-1.83	-3.09	-13.00	-60.48
1693.20	-58.54	-64.42	9.80	-3.92	-13.00	-45.54
2539.80	-47.30	-53.61	11.16	-4.85	-13.00	-34.30

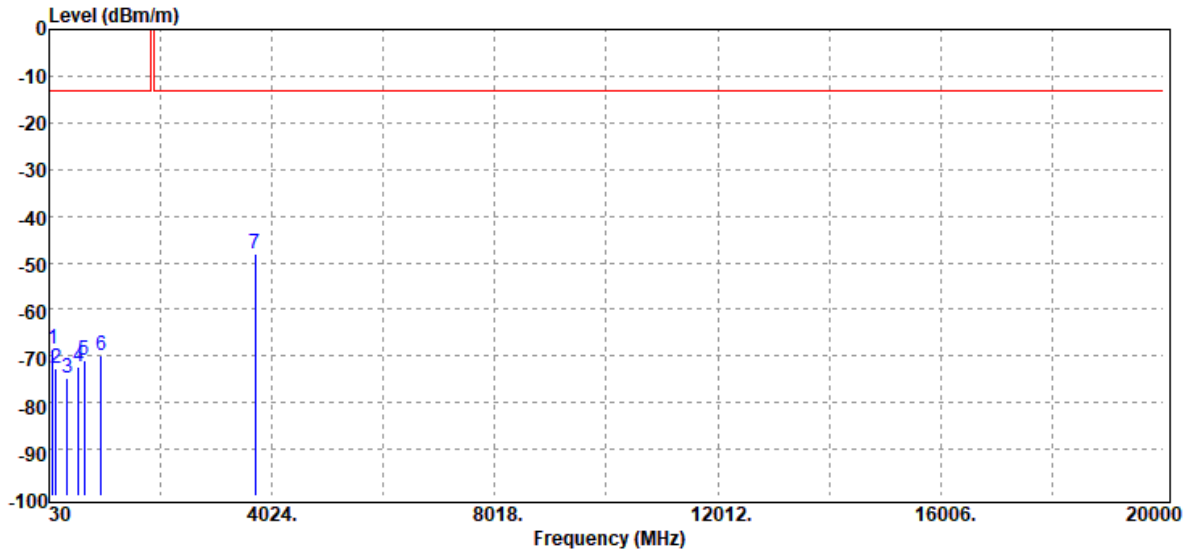
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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1860 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.62	-61.47	-6.20	-0.95	-13.00	-55.62
150.28	-72.61	-63.90	-7.49	-1.22	-13.00	-59.61
352.04	-74.82	-71.47	-1.54	-1.81	-13.00	-61.82
563.50	-72.44	-68.78	-1.38	-2.28	-13.00	-59.44
660.50	-70.81	-66.78	-1.34	-2.69	-13.00	-57.81
958.29	-69.85	-65.04	-1.80	-3.01	-13.00	-56.85
3720.00	-48.00	-54.58	12.40	-5.82	-13.00	-35.00

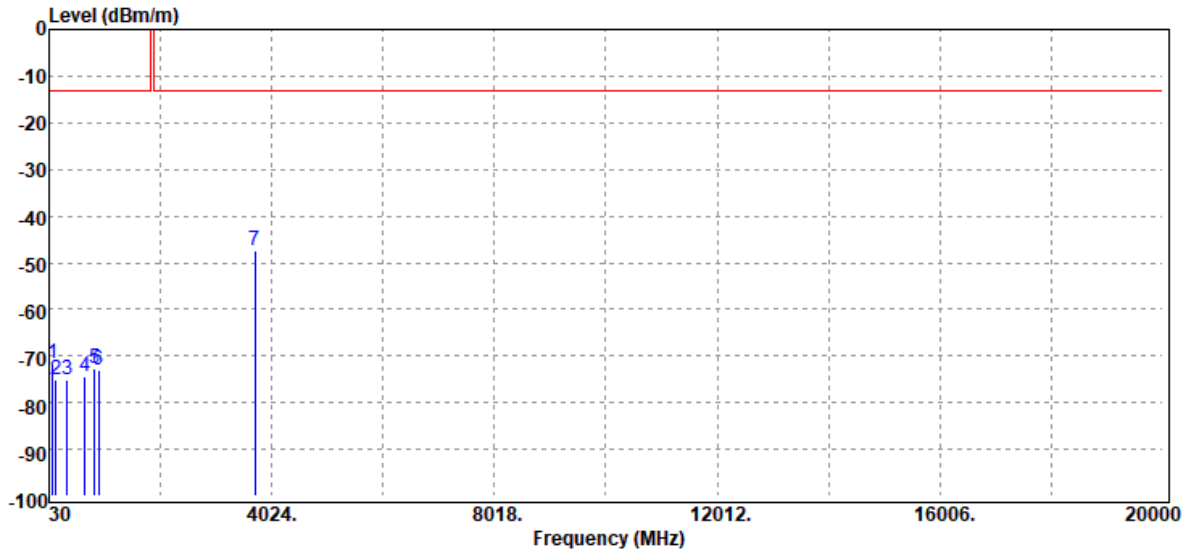
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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1860 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-71.65	-64.92	-5.79	-0.94	-13.00	-58.65
146.40	-75.10	-66.20	-7.72	-1.18	-13.00	-62.10
354.95	-75.14	-71.85	-1.52	-1.77	-13.00	-62.14
677.96	-74.49	-70.59	-1.46	-2.44	-13.00	-61.49
847.71	-72.80	-68.75	-1.56	-2.49	-13.00	-59.80
922.40	-72.93	-68.21	-1.88	-2.84	-13.00	-59.93
3720.00	-47.45	-54.03	12.40	-5.82	-13.00	-34.45

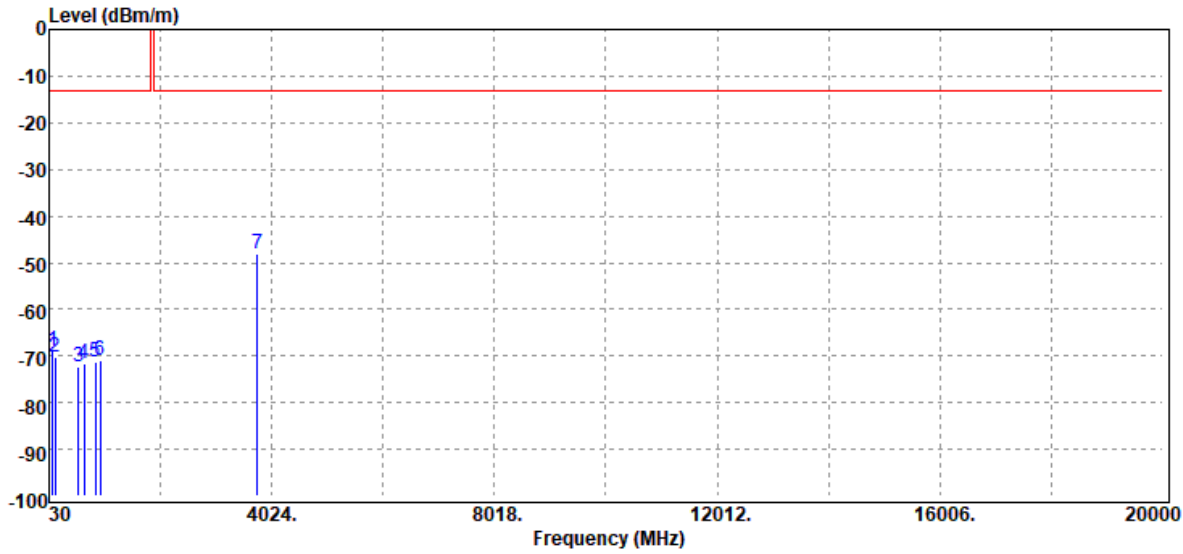
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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.94	-61.98	-6.01	-0.95	-13.00	-55.94
136.70	-70.41	-61.45	-7.91	-1.05	-13.00	-57.41
550.89	-72.30	-68.85	-1.24	-2.21	-13.00	-59.30
653.71	-71.68	-67.80	-1.32	-2.56	-13.00	-58.68
856.44	-71.12	-67.24	-1.57	-2.31	-13.00	-58.12
943.74	-70.78	-66.10	-2.00	-2.68	-13.00	-57.78
3760.00	-48.07	-54.73	12.40	-5.74	-13.00	-35.07

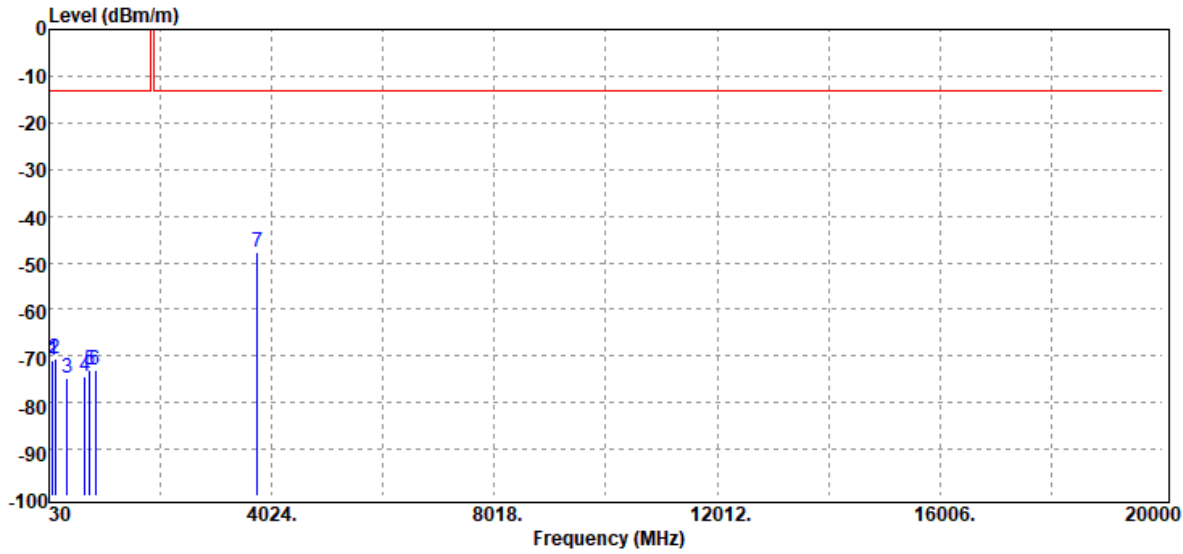
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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



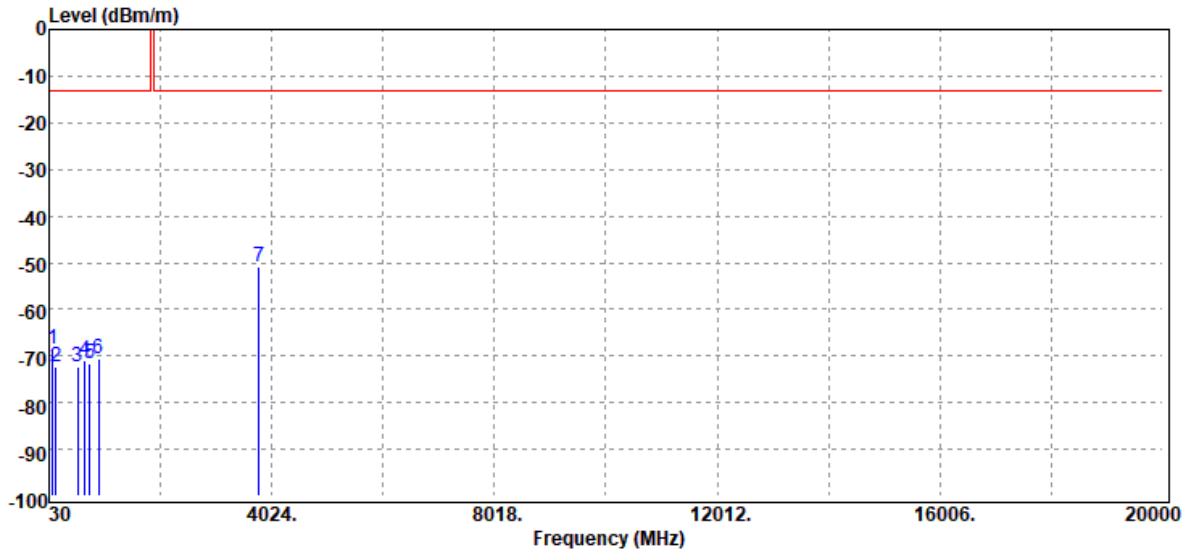
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
97.90	-71.06	-64.33	-5.79	-0.94	-13.00	-58.06
144.46	-70.75	-61.81	-7.79	-1.15	-13.00	-57.75
348.16	-74.60	-71.21	-1.55	-1.84	-13.00	-61.60
673.11	-74.48	-70.35	-1.46	-2.67	-13.00	-61.48
762.35	-73.15	-68.83	-1.78	-2.54	-13.00	-60.15
859.35	-72.97	-69.14	-1.54	-2.29	-13.00	-59.97
3760.00	-47.86	-54.52	12.40	-5.74	-13.00	-34.86

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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1900 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



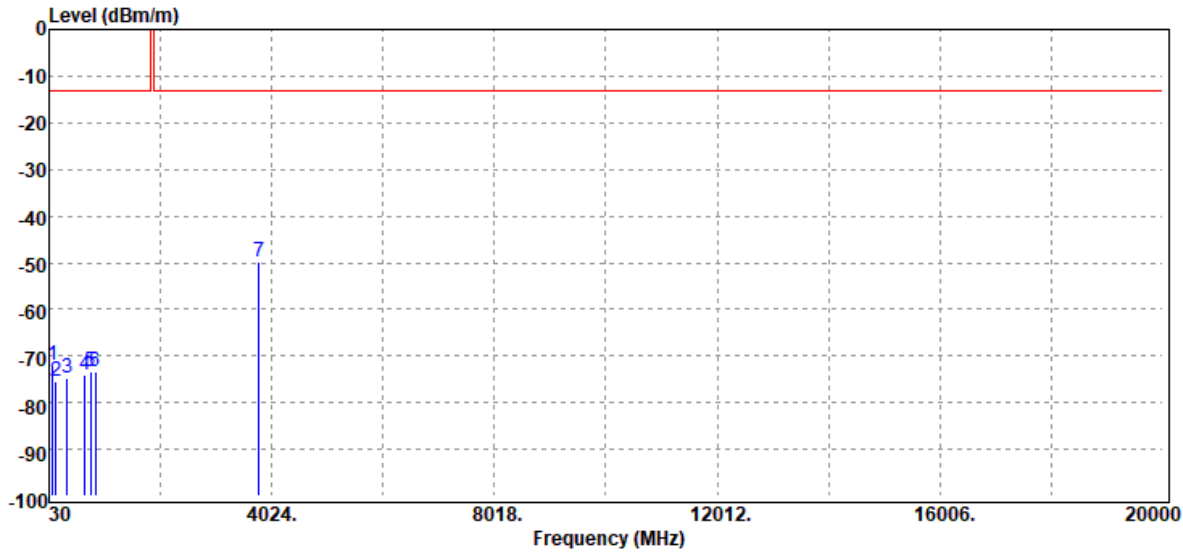
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.54	-61.39	-6.20	-0.95	-13.00	-55.54
148.34	-72.33	-63.49	-7.64	-1.20	-13.00	-59.33
546.04	-72.19	-68.90	-1.20	-2.09	-13.00	-59.19
668.26	-70.94	-66.69	-1.46	-2.79	-13.00	-57.94
762.35	-71.57	-67.25	-1.78	-2.54	-13.00	-58.57
920.46	-70.72	-65.99	-1.86	-2.87	-13.00	-57.72
3800.00	-50.74	-57.48	12.40	-5.66	-13.00	-37.74

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Report Number :ER/2020/30083
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1900 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-72.14	-65.18	-6.01	-0.95	-13.00	-59.14
151.25	-75.38	-66.73	-7.43	-1.22	-13.00	-62.38
350.10	-74.81	-71.44	-1.54	-1.83	-13.00	-61.81
672.14	-74.12	-69.93	-1.48	-2.71	-13.00	-61.12
767.20	-73.22	-69.06	-1.86	-2.30	-13.00	-60.22
856.44	-73.35	-69.47	-1.57	-2.31	-13.00	-60.35
3800.00	-49.94	-56.68	12.40	-5.66	-13.00	-36.94

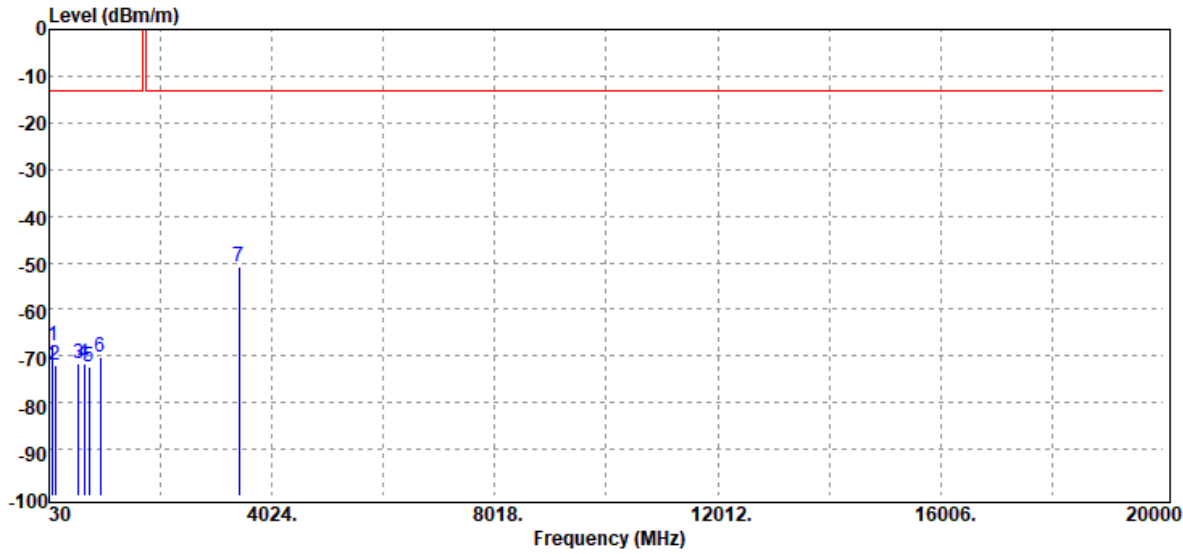
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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1720 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-67.66	-60.70	-6.01	-0.95	-13.00	-54.66
136.70	-71.80	-62.84	-7.91	-1.05	-13.00	-58.80
550.89	-71.64	-68.19	-1.24	-2.21	-13.00	-58.64
657.59	-71.61	-67.65	-1.32	-2.64	-13.00	-58.61
750.71	-72.16	-67.53	-1.73	-2.90	-13.00	-59.16
946.65	-70.12	-65.43	-1.97	-2.72	-13.00	-57.12
3440.00	-50.97	-58.35	12.70	-5.32	-13.00	-37.97

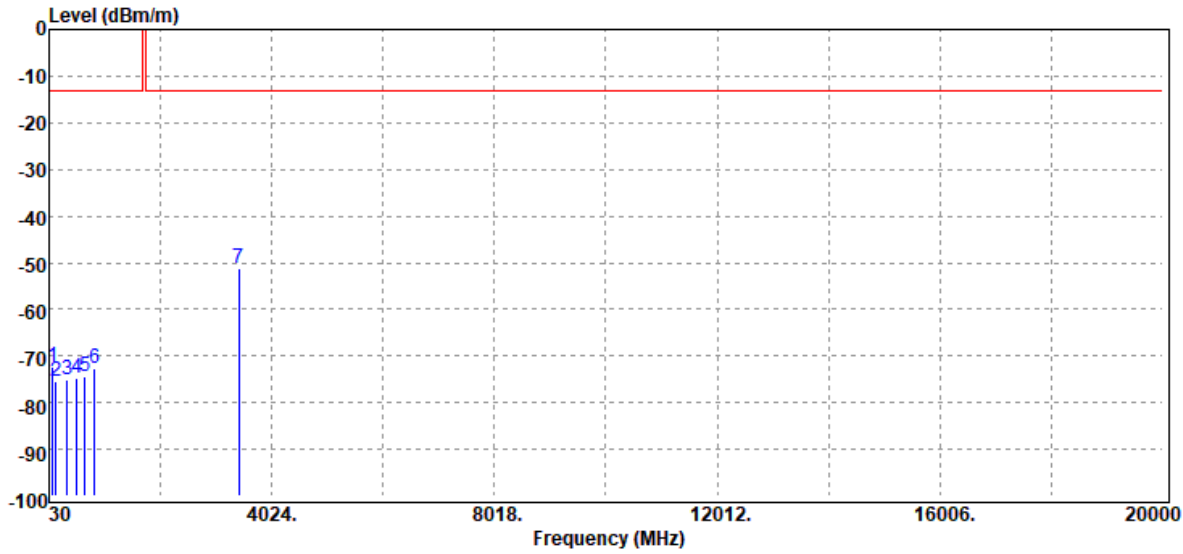
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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1720 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-72.44	-65.48	-6.01	-0.95	-13.00	-59.44
149.31	-75.53	-66.71	-7.61	-1.21	-13.00	-62.53
356.89	-75.25	-72.00	-1.51	-1.74	-13.00	-62.25
524.70	-74.77	-71.44	-1.33	-2.00	-13.00	-61.77
670.20	-74.26	-69.95	-1.50	-2.81	-13.00	-61.26
851.59	-72.81	-68.90	-1.55	-2.36	-13.00	-59.81
3440.00	-51.25	-58.63	12.70	-5.32	-13.00	-38.25

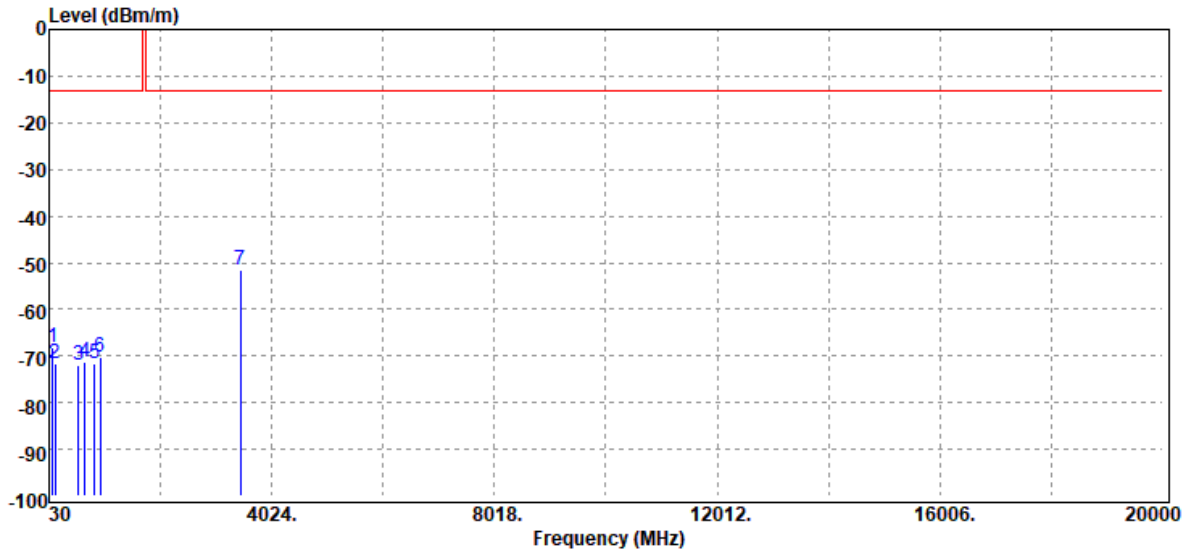
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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1732.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.09	-61.13	-6.01	-0.95	-13.00	-55.09
138.64	-71.55	-62.52	-7.95	-1.08	-13.00	-58.55
553.80	-71.85	-68.31	-1.31	-2.23	-13.00	-58.85
673.11	-71.18	-67.05	-1.46	-2.67	-13.00	-58.18
851.59	-71.74	-67.83	-1.55	-2.36	-13.00	-58.74
949.56	-70.13	-65.49	-1.89	-2.75	-13.00	-57.13
3465.00	-51.56	-58.63	12.64	-5.57	-13.00	-38.56

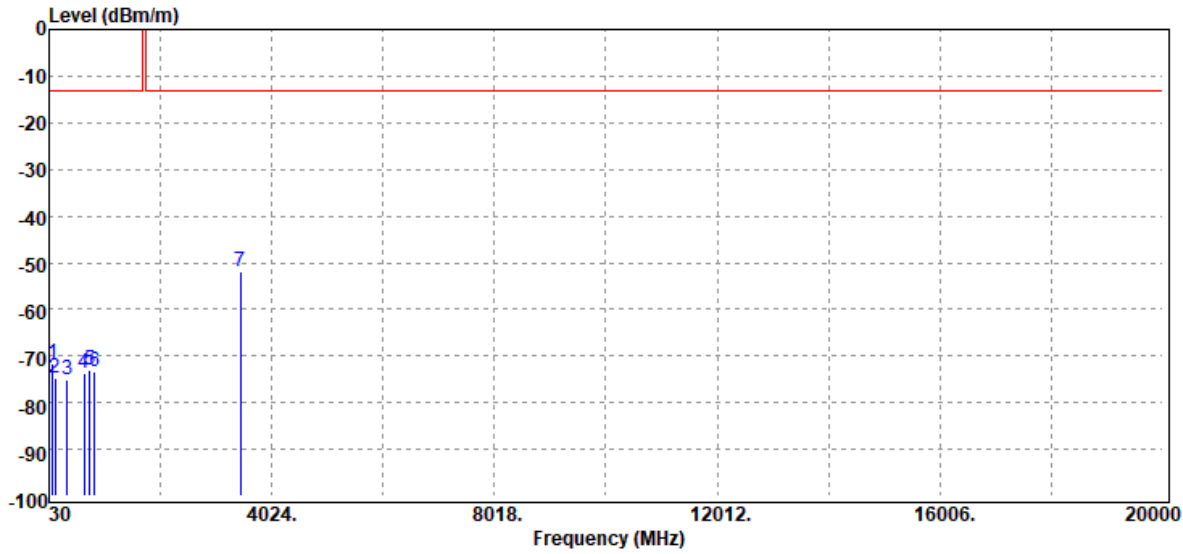
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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1732.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



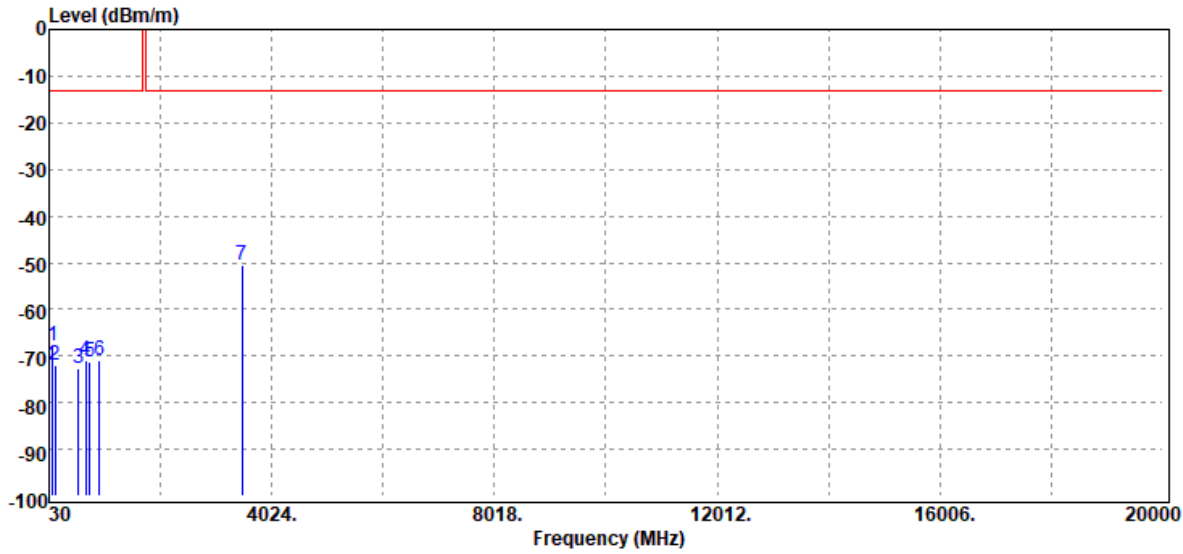
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
93.05	-71.66	-65.19	-5.55	-0.92	-13.00	-58.66
144.46	-74.57	-65.63	-7.79	-1.15	-13.00	-61.57
353.01	-75.05	-71.73	-1.53	-1.79	-13.00	-62.05
665.35	-73.86	-69.72	-1.38	-2.76	-13.00	-60.86
765.26	-73.11	-68.94	-1.77	-2.40	-13.00	-60.11
847.71	-73.48	-69.43	-1.56	-2.49	-13.00	-60.48
3465.00	-51.98	-59.05	12.64	-5.57	-13.00	-38.98

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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1745 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.83	-60.68	-6.20	-0.95	-13.00	-54.83
138.64	-72.09	-63.06	-7.95	-1.08	-13.00	-59.09
555.74	-72.50	-68.91	-1.34	-2.25	-13.00	-59.50
681.84	-71.10	-67.37	-1.45	-2.28	-13.00	-58.10
759.44	-71.16	-66.68	-1.81	-2.67	-13.00	-58.16
939.86	-70.76	-66.16	-1.97	-2.63	-13.00	-57.76
3490.00	-50.57	-57.30	12.54	-5.81	-13.00	-37.57

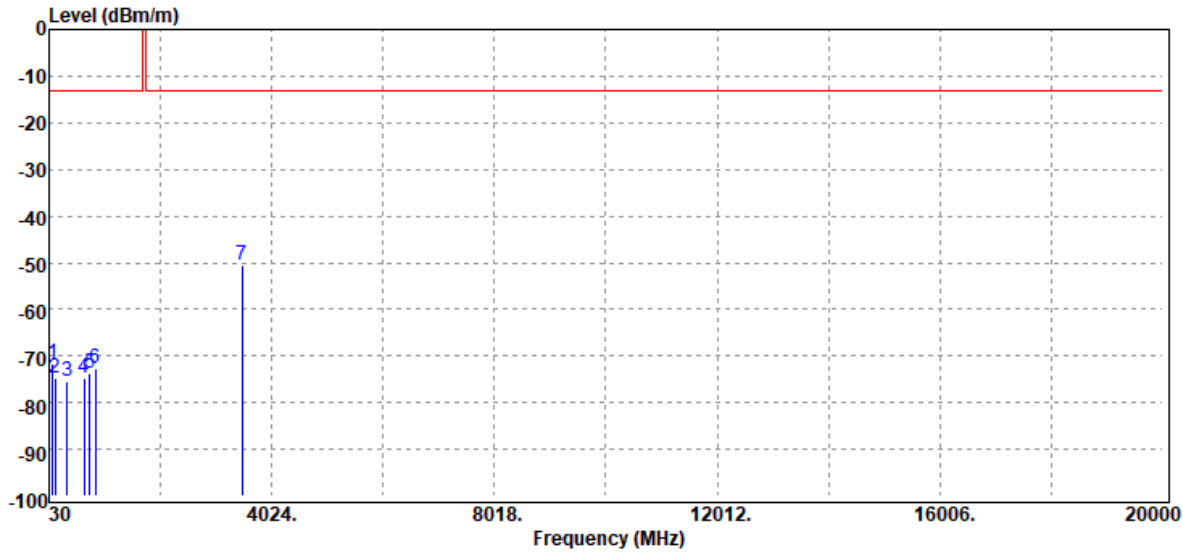
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Report Number :ER/2020/30083
Operation Mode :LTE B4
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1745 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
93.05	-71.67	-65.20	-5.55	-0.92	-13.00	-58.67
144.46	-74.59	-65.65	-7.79	-1.15	-13.00	-61.59
353.01	-75.49	-72.17	-1.53	-1.79	-13.00	-62.49
665.35	-74.69	-70.55	-1.38	-2.76	-13.00	-61.69
759.44	-73.66	-69.18	-1.81	-2.67	-13.00	-60.66
854.50	-72.83	-68.92	-1.58	-2.33	-13.00	-59.83
3490.00	-50.66	-57.39	12.54	-5.81	-13.00	-37.66

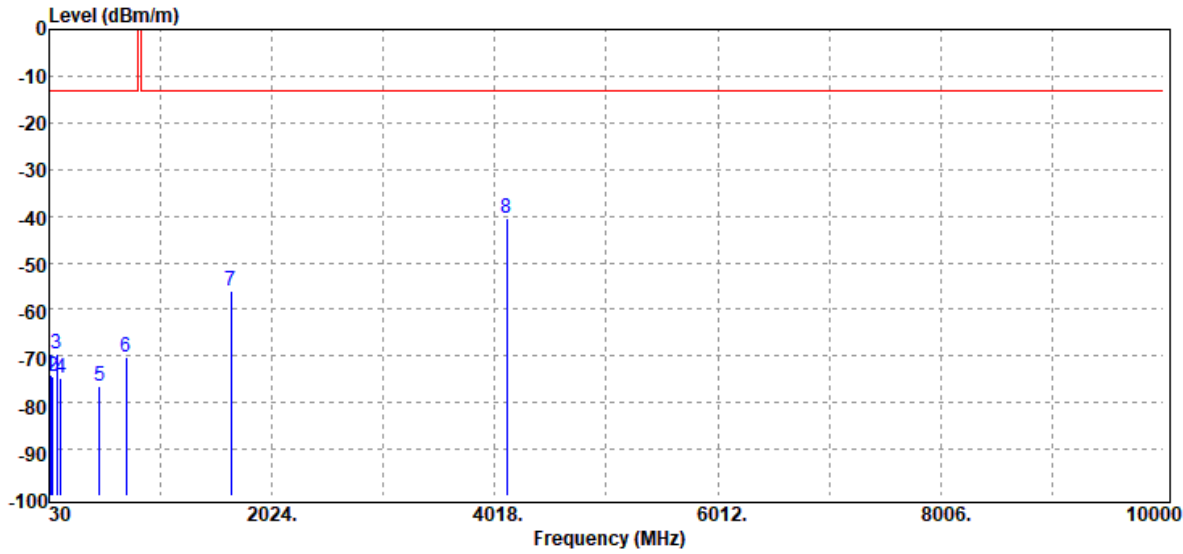
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Report Number :ER/2020/30083
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :829 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo

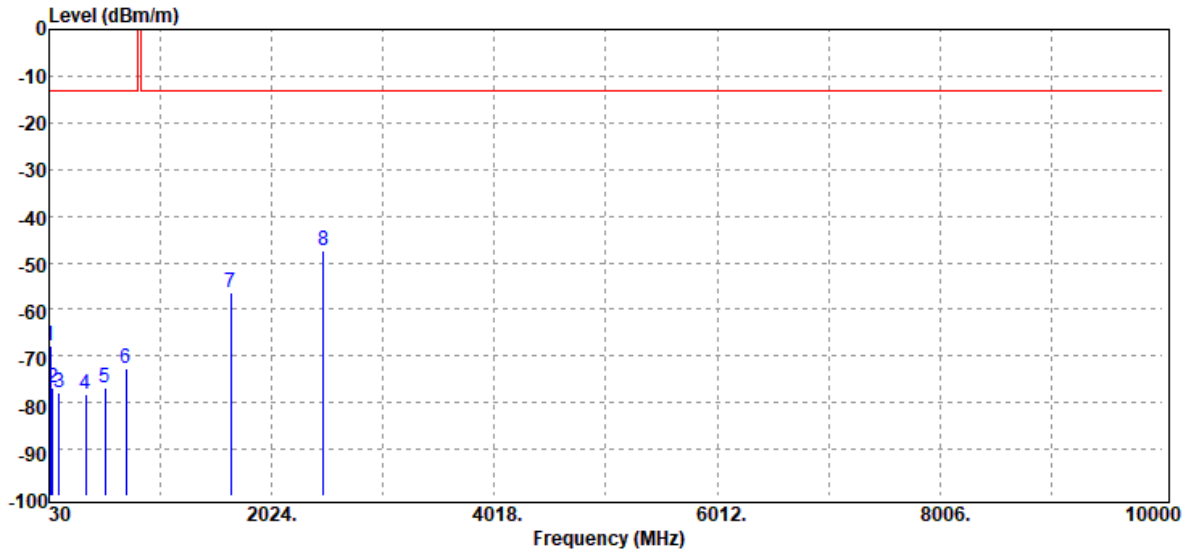


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-74.21	-54.93	-18.67	-0.61	-13.00	-61.21
62.01	-74.45	-59.31	-14.38	-0.76	-13.00	-61.45
100.81	-69.43	-62.28	-6.20	-0.95	-13.00	-56.43
136.70	-74.58	-65.62	-7.91	-1.05	-13.00	-61.58
481.05	-76.35	-72.57	-1.68	-2.10	-13.00	-63.35
721.61	-70.33	-66.42	-1.26	-2.65	-13.00	-57.33
1658.00	-56.05	-61.97	9.80	-3.88	-13.00	-43.05
4125.00	-40.45	-47.32	12.90	-6.03	-13.00	-27.45

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Report Number :ER/2020/30083
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :829 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-67.92	-48.64	-18.67	-0.61	-13.00	-54.92
62.01	-76.65	-61.51	-14.38	-0.76	-13.00	-63.65
119.24	-77.79	-69.41	-7.32	-1.06	-13.00	-64.79
359.80	-78.19	-74.98	-1.50	-1.71	-13.00	-65.19
532.46	-76.71	-73.51	-1.35	-1.85	-13.00	-63.71
720.64	-72.59	-68.73	-1.21	-2.65	-13.00	-59.59
1658.00	-56.43	-62.35	9.80	-3.88	-13.00	-43.43
2487.00	-47.39	-53.50	10.90	-4.79	-13.00	-34.39

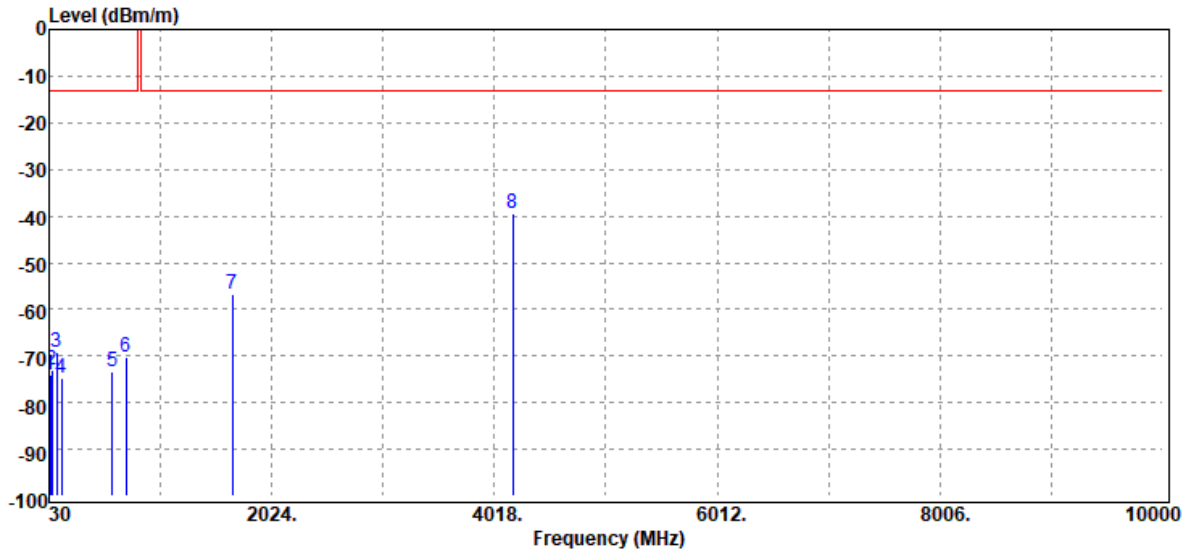
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Report Number :ER/2020/30083
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



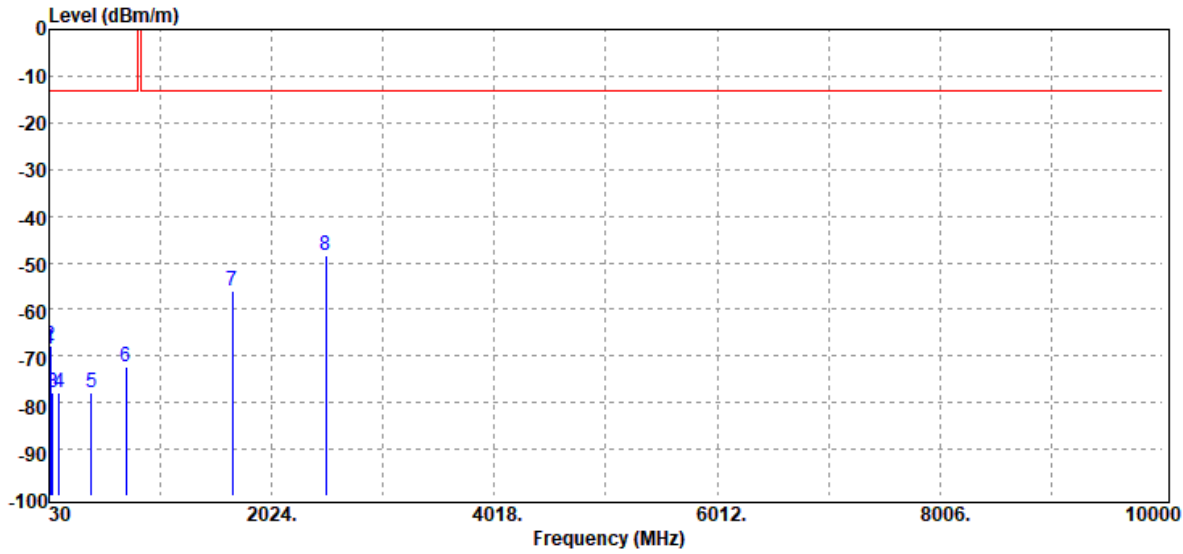
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
41.64	-74.21	-54.93	-18.67	-0.61	-13.00	-61.21
57.16	-73.03	-56.67	-15.65	-0.71	-13.00	-60.03
100.81	-69.20	-62.05	-6.20	-0.95	-13.00	-56.20
138.64	-74.63	-65.60	-7.95	-1.08	-13.00	-61.63
594.54	-73.43	-69.14	-1.83	-2.46	-13.00	-60.43
718.70	-70.36	-66.51	-1.22	-2.63	-13.00	-57.36
1673.00	-56.82	-62.72	9.80	-3.90	-13.00	-43.82
4182.50	-39.42	-45.85	12.77	-6.34	-13.00	-26.42

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Report Number :ER/2020/30083
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-68.34	-46.52	-21.28	-0.54	-13.00	-55.34
39.70	-67.66	-48.10	-18.95	-0.61	-13.00	-54.66
62.01	-77.83	-62.69	-14.38	-0.76	-13.00	-64.83
120.21	-77.90	-69.49	-7.35	-1.06	-13.00	-64.90
411.21	-77.81	-74.52	-1.39	-1.90	-13.00	-64.81
720.64	-72.41	-68.55	-1.21	-2.65	-13.00	-59.41
1673.00	-56.07	-61.97	9.80	-3.90	-13.00	-43.07
2509.50	-48.31	-54.53	11.04	-4.82	-13.00	-35.31

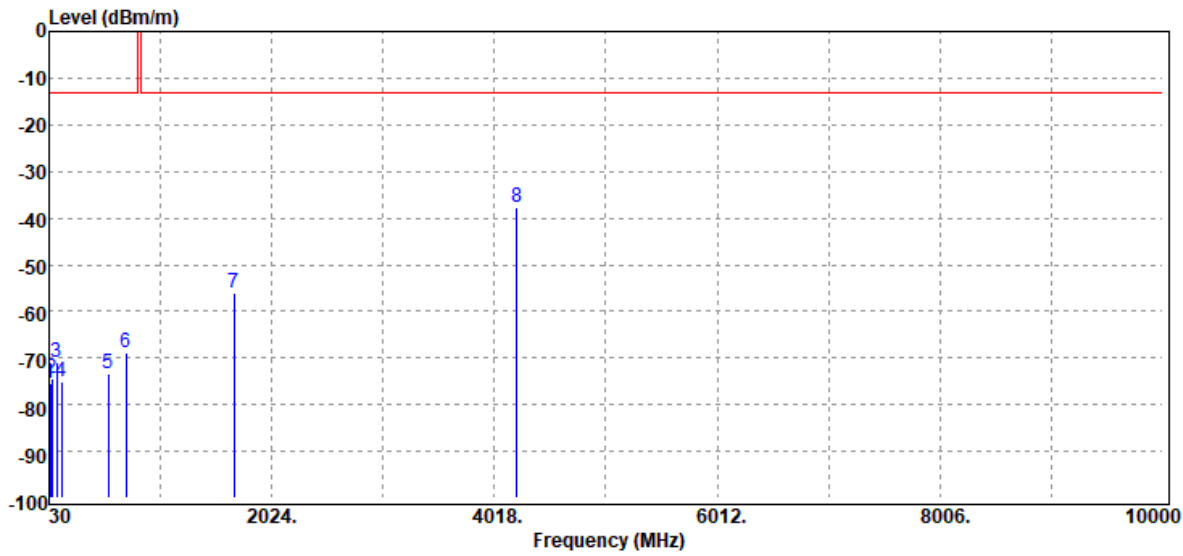
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Report Number :ER/2020/30083
 Operation Mode :LTE B5
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Frequency :844 MHz

Test Date :2020-06-12
 Temp./Humi. :25.1/70
 Antenna Pol. :VERTICAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-75.29	-55.73	-18.95	-0.61	-13.00	-62.29
57.16	-74.38	-58.02	-15.65	-0.71	-13.00	-61.38
100.81	-70.82	-63.67	-6.20	-0.95	-13.00	-57.82
139.61	-75.15	-66.13	-7.93	-1.09	-13.00	-62.15
561.56	-73.28	-69.63	-1.37	-2.28	-13.00	-60.28
720.64	-68.82	-64.96	-1.21	-2.65	-13.00	-55.82
1688.00	-56.06	-61.94	9.80	-3.92	-13.00	-43.06
4220.00	-37.62	-43.98	12.74	-6.38	-13.00	-24.62

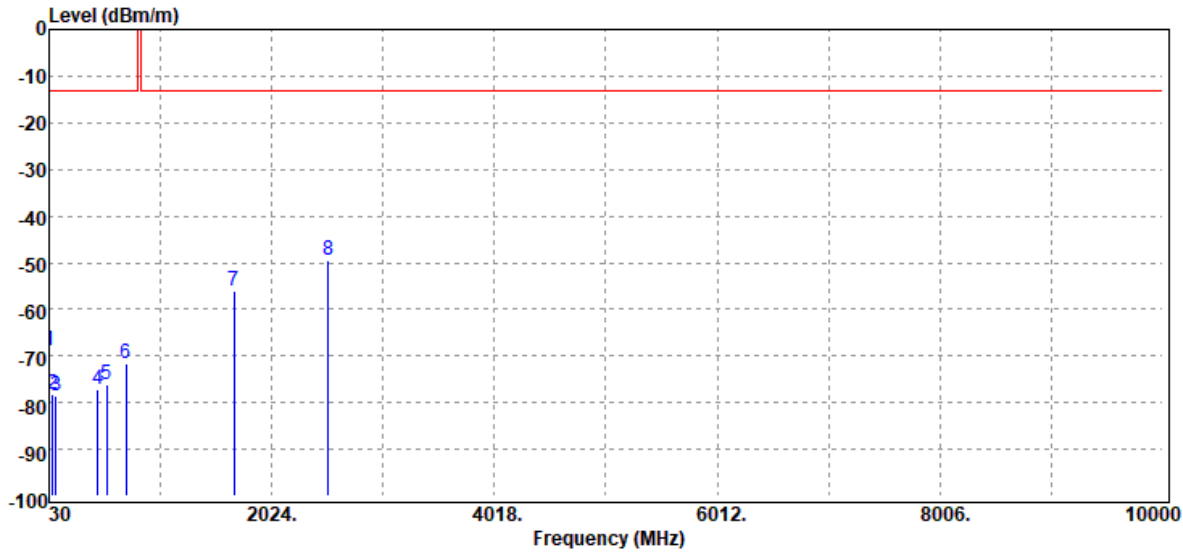
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Report Number :ER/2020/30083
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :844 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-68.93	-47.11	-21.28	-0.54	-13.00	-55.93
65.89	-78.09	-64.21	-13.09	-0.79	-13.00	-65.09
88.20	-78.61	-71.52	-6.20	-0.89	-13.00	-65.61
466.50	-77.21	-73.32	-1.92	-1.97	-13.00	-64.21
547.01	-76.23	-72.90	-1.21	-2.12	-13.00	-63.23
721.61	-71.55	-67.64	-1.26	-2.65	-13.00	-58.55
1688.00	-56.06	-61.94	9.80	-3.92	-13.00	-43.06
2532.00	-49.34	-55.63	11.13	-4.84	-13.00	-36.34

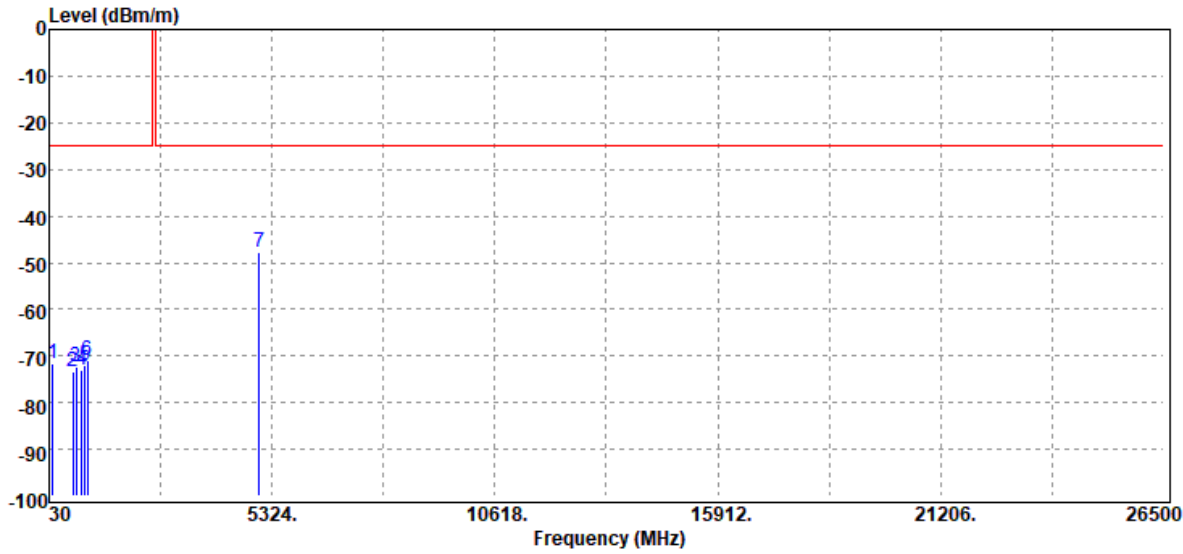
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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2510 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-71.78	-63.66	-7.11	-1.01	-25.00	-46.78
592.60	-73.28	-68.94	-1.82	-2.52	-25.00	-48.28
679.90	-72.42	-68.60	-1.48	-2.34	-25.00	-47.42
807.94	-73.12	-68.75	-1.58	-2.79	-25.00	-48.12
890.39	-71.98	-67.58	-1.45	-2.95	-25.00	-46.98
935.01	-70.89	-66.20	-2.01	-2.68	-25.00	-45.89
5020.00	-47.59	-53.40	12.66	-6.85	-25.00	-22.59

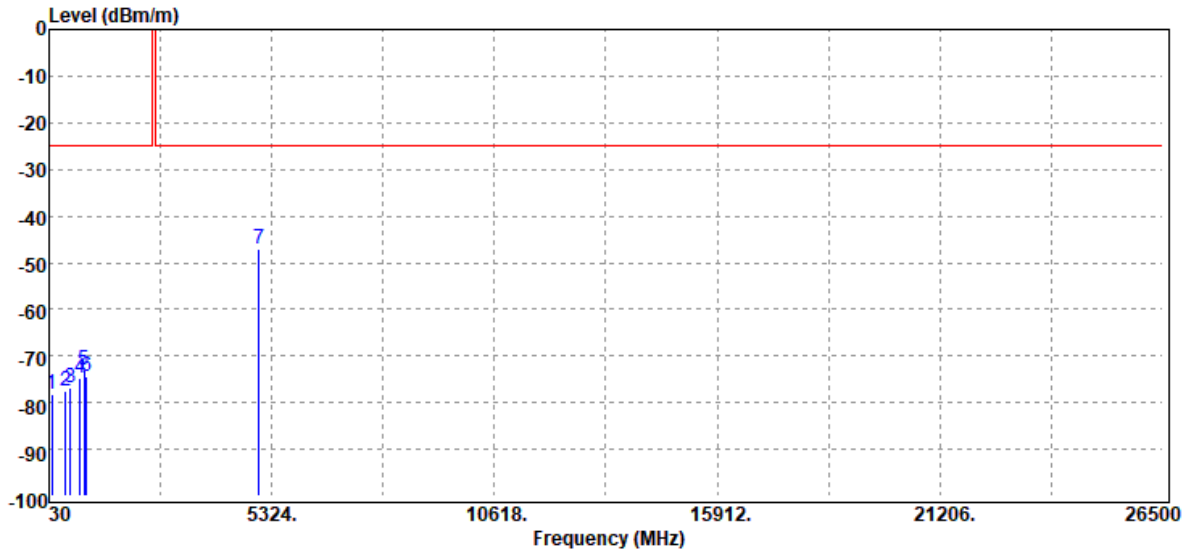
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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2510 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
100.81	-78.37	-71.22	-6.20	-0.95	-25.00	-53.37
415.09	-77.59	-74.14	-1.47	-1.98	-25.00	-52.59
537.31	-76.85	-73.63	-1.32	-1.90	-25.00	-51.85
774.96	-74.60	-70.54	-1.84	-2.22	-25.00	-49.60
854.50	-73.18	-69.27	-1.58	-2.33	-25.00	-48.18
924.34	-74.36	-69.65	-1.90	-2.81	-25.00	-49.36
5020.00	-47.00	-52.81	12.66	-6.85	-25.00	-22.00

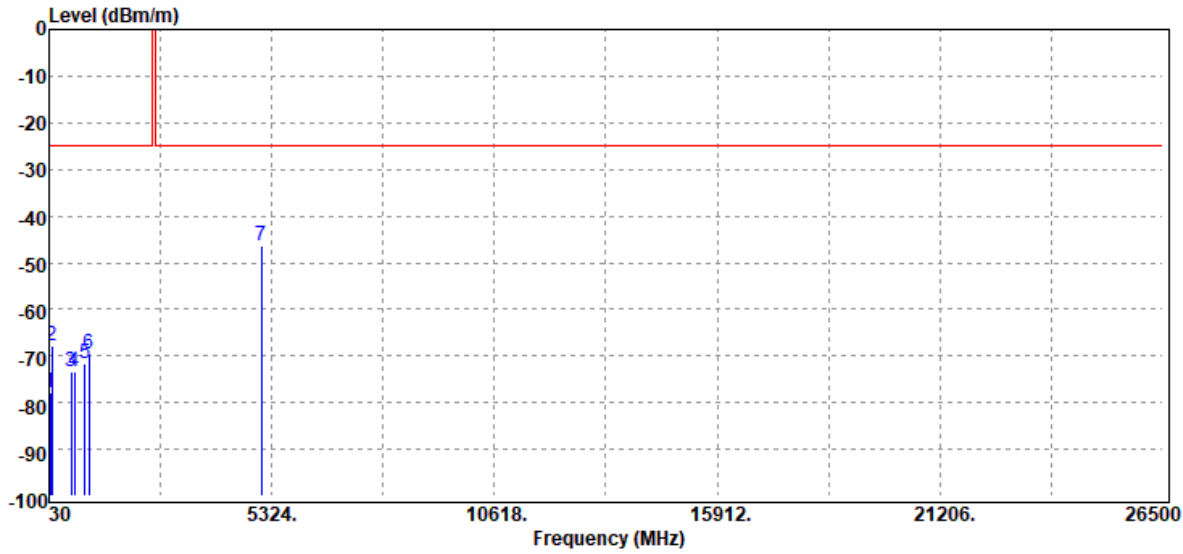
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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2535 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
61.04	-77.70	-62.34	-14.61	-0.75	-25.00	-52.70
100.81	-67.95	-60.80	-6.20	-0.95	-25.00	-42.95
550.89	-73.47	-70.02	-1.24	-2.21	-25.00	-48.47
639.16	-73.44	-69.45	-1.50	-2.49	-25.00	-48.44
891.36	-71.46	-67.02	-1.48	-2.96	-25.00	-46.46
980.60	-69.58	-64.56	-1.88	-3.14	-25.00	-44.58
5070.00	-46.38	-52.14	12.56	-6.80	-25.00	-21.38

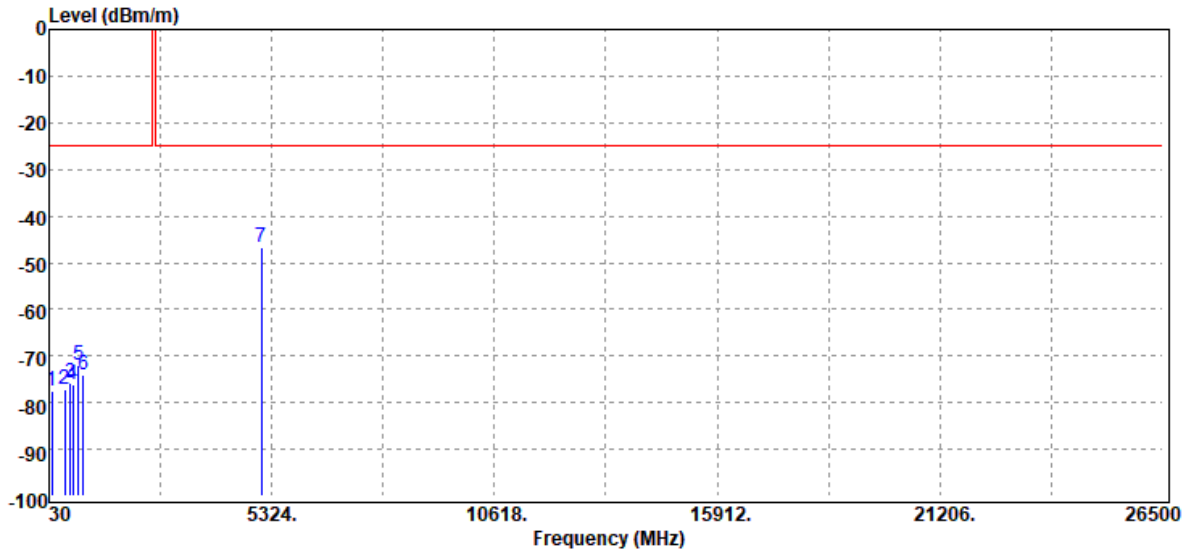
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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2535 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
99.84	-77.65	-70.69	-6.01	-0.95	-25.00	-52.65
406.36	-77.01	-73.69	-1.45	-1.87	-25.00	-52.01
544.10	-75.87	-72.62	-1.21	-2.04	-25.00	-50.87
600.36	-75.97	-71.84	-1.87	-2.26	-25.00	-50.97
721.61	-71.96	-68.05	-1.26	-2.65	-25.00	-46.96
852.56	-74.01	-70.10	-1.56	-2.35	-25.00	-49.01
5070.00	-46.87	-52.63	12.56	-6.80	-25.00	-21.87

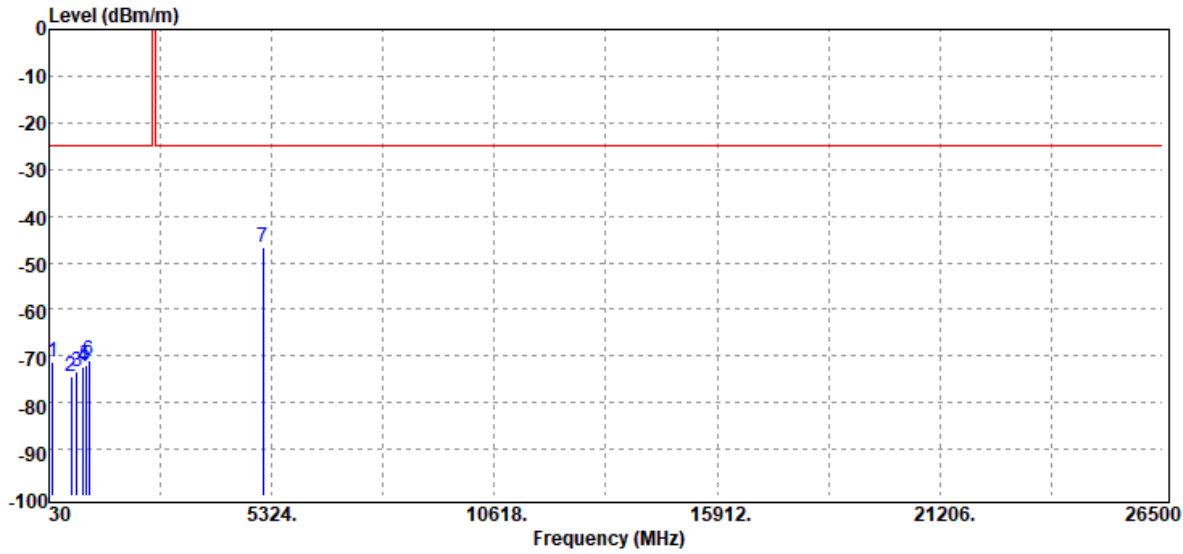
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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2560 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



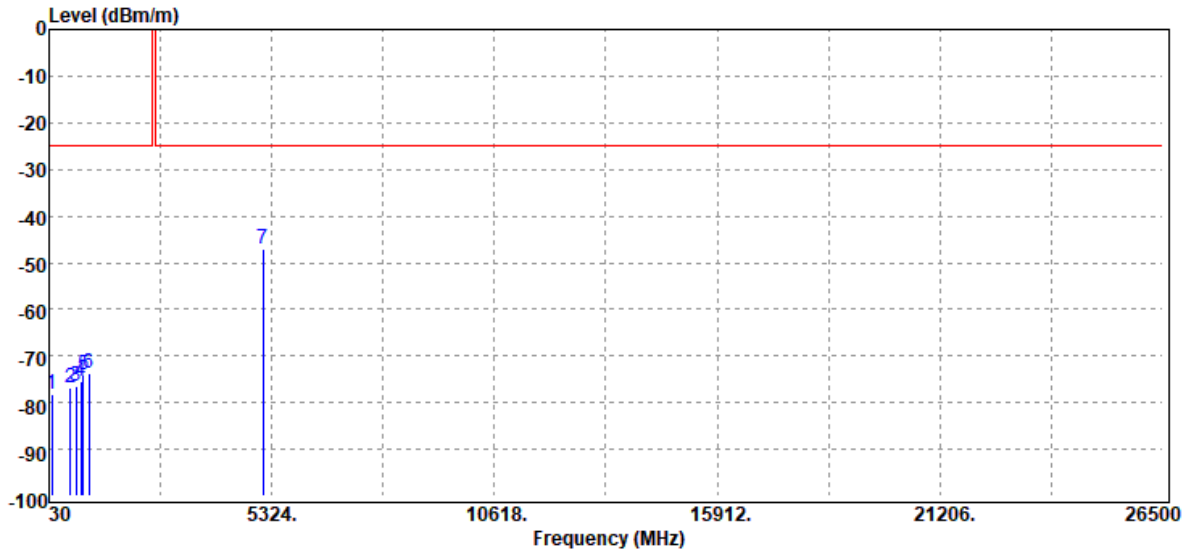
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-71.27	-63.15	-7.11	-1.01	-25.00	-46.27
553.80	-74.33	-70.79	-1.31	-2.23	-25.00	-49.33
699.30	-73.47	-69.83	-1.43	-2.21	-25.00	-48.47
841.89	-72.43	-68.02	-1.62	-2.79	-25.00	-47.43
893.30	-71.91	-67.41	-1.54	-2.96	-25.00	-46.91
973.81	-71.09	-66.12	-1.83	-3.14	-25.00	-46.09
5120.00	-46.64	-52.37	12.58	-6.85	-25.00	-21.64

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Report Number :ER/2020/30083
Operation Mode :LTE B7
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2560 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


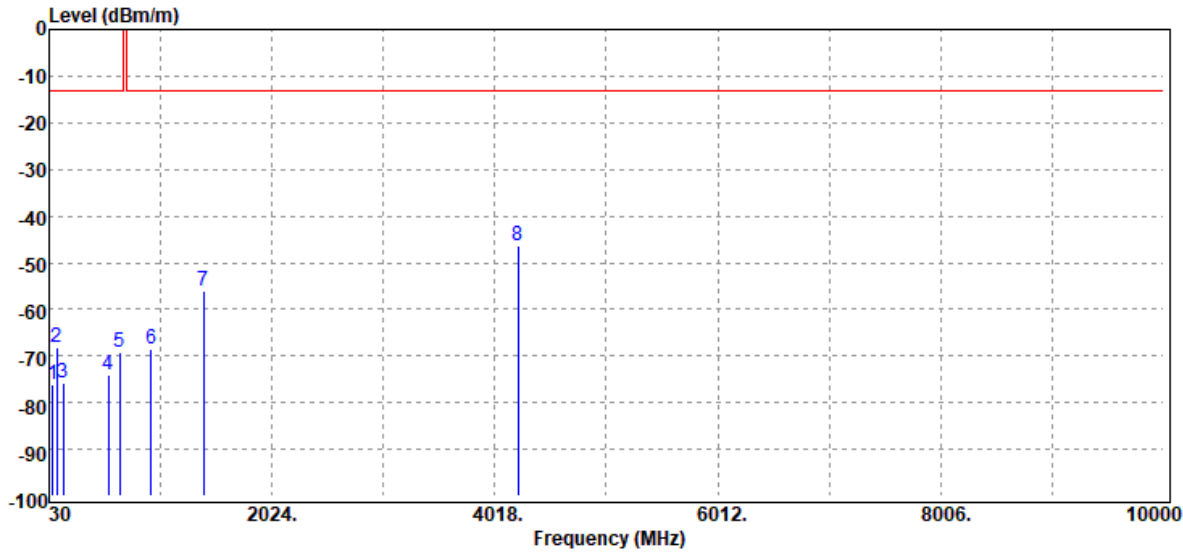
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-78.36	-70.96	-6.44	-0.96	-25.00	-53.36
544.10	-76.96	-73.71	-1.21	-2.04	-25.00	-51.96
668.26	-76.42	-72.17	-1.46	-2.79	-25.00	-51.42
788.54	-75.29	-71.04	-1.62	-2.63	-25.00	-50.29
852.56	-74.03	-70.12	-1.56	-2.35	-25.00	-49.03
977.69	-73.57	-68.55	-1.88	-3.14	-25.00	-48.57
5120.00	-46.89	-52.62	12.58	-6.85	-25.00	-21.89

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Report Number :ER/2020/30083
Operation Mode :LTE B12
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :704 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo


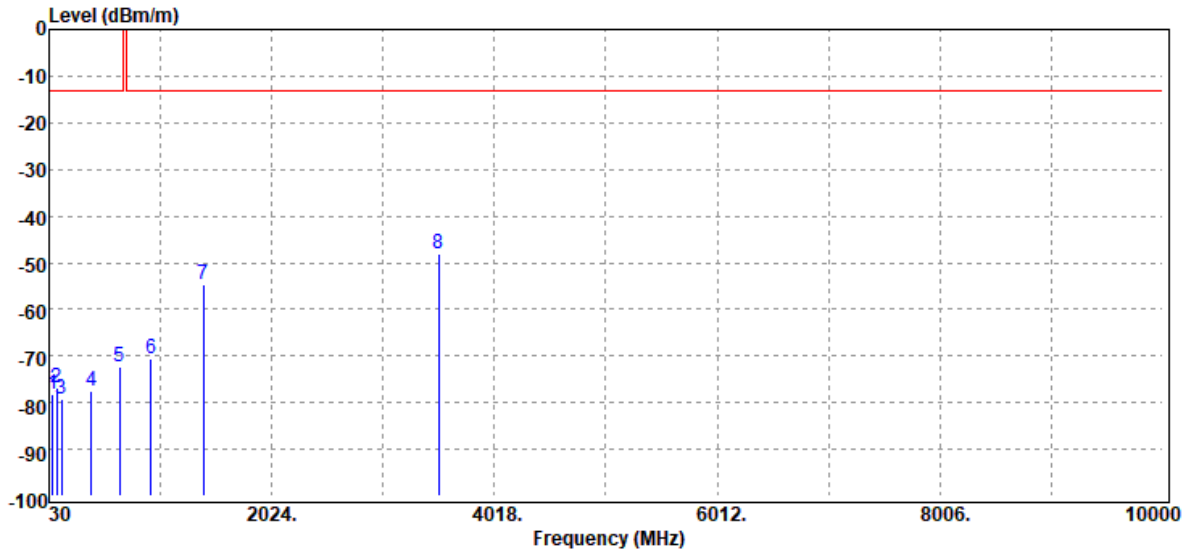
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.01	-76.20	-61.06	-14.38	-0.76	-13.00	-63.20
100.81	-68.15	-61.00	-6.20	-0.95	-13.00	-55.15
153.19	-75.84	-67.30	-7.32	-1.22	-13.00	-62.84
556.71	-73.94	-70.33	-1.35	-2.26	-13.00	-60.94
659.53	-69.15	-65.14	-1.33	-2.68	-13.00	-56.15
940.83	-68.59	-63.98	-1.97	-2.64	-13.00	-55.59
1408.00	-55.93	-60.10	7.75	-3.58	-13.00	-42.93
4224.00	-46.22	-52.60	12.75	-6.37	-13.00	-33.22

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Report Number :ER/2020/30083
Operation Mode :LTE B12
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :704 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-78.28	-62.92	-14.61	-0.75	-13.00	-65.28
99.84	-76.67	-69.71	-6.01	-0.95	-13.00	-63.67
144.46	-79.40	-70.46	-7.79	-1.15	-13.00	-66.40
411.21	-77.51	-74.22	-1.39	-1.90	-13.00	-64.51
660.50	-72.40	-68.37	-1.34	-2.69	-13.00	-59.40
939.86	-70.48	-65.88	-1.97	-2.63	-13.00	-57.48
1408.00	-54.72	-58.89	7.75	-3.58	-13.00	-41.72
3520.00	-47.94	-54.45	12.42	-5.91	-13.00	-34.94

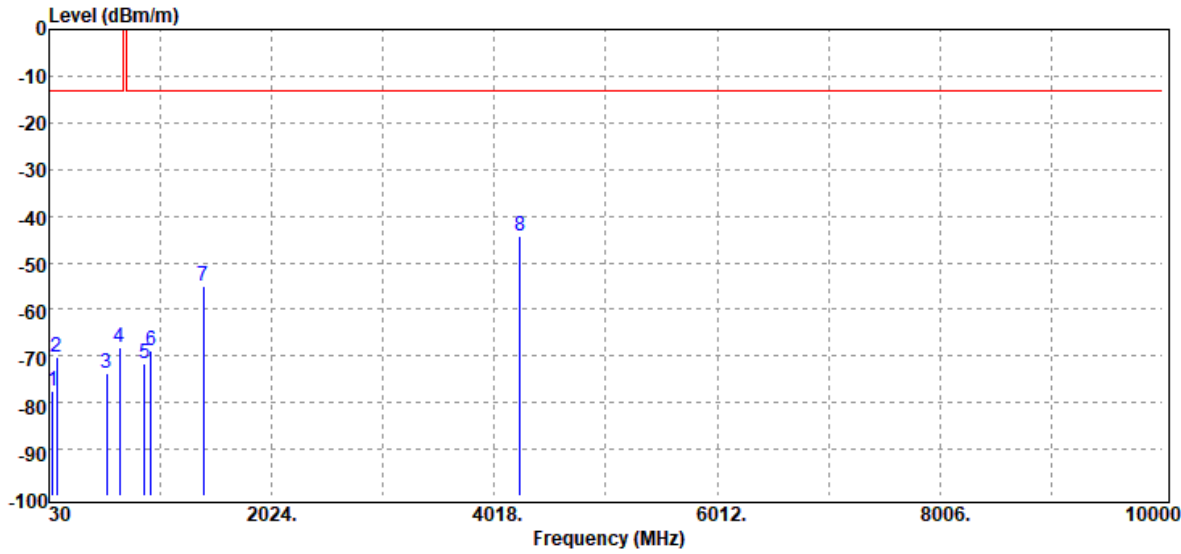
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Report Number :ER/2020/30083
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :707.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-77.40	-62.04	-14.61	-0.75	-13.00	-64.40
99.84	-70.24	-63.28	-6.01	-0.95	-13.00	-57.24
547.01	-73.84	-70.51	-1.21	-2.12	-13.00	-60.84
660.50	-68.32	-64.29	-1.34	-2.69	-13.00	-55.32
886.51	-71.46	-67.02	-1.47	-2.97	-13.00	-58.46
939.86	-68.99	-64.39	-1.97	-2.63	-13.00	-55.99
1415.00	-55.14	-59.34	7.79	-3.59	-13.00	-42.14
4245.00	-44.20	-50.68	12.79	-6.31	-13.00	-31.20

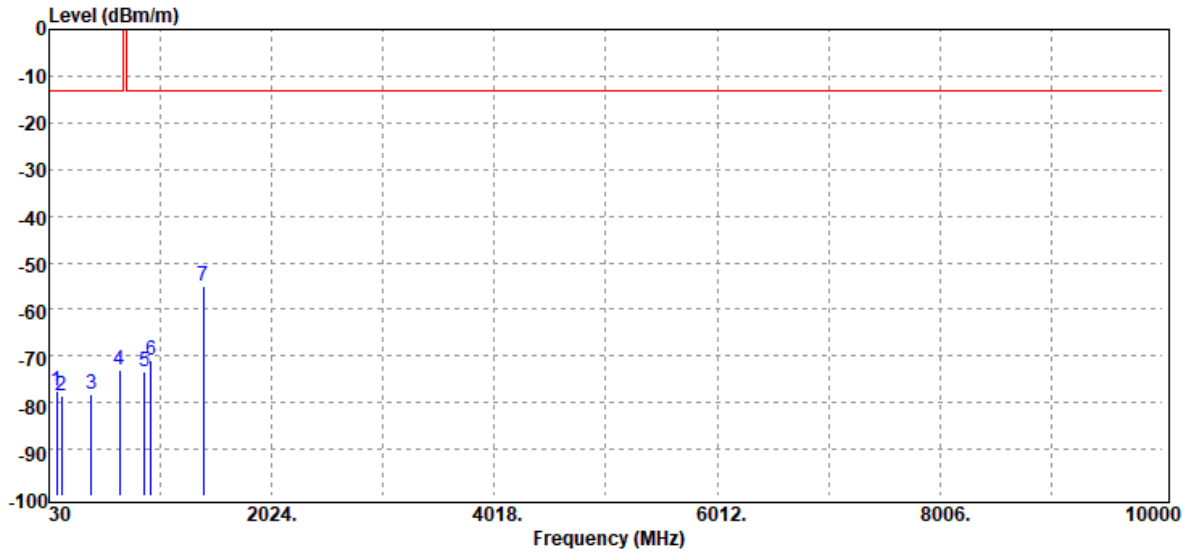
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Report Number :ER/2020/30083
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :707.5 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.48	-70.33	-6.20	-0.95	-13.00	-64.48
143.49	-78.61	-69.63	-7.84	-1.14	-13.00	-65.61
411.21	-78.06	-74.77	-1.39	-1.90	-13.00	-65.06
659.53	-73.00	-68.99	-1.33	-2.68	-13.00	-60.00
888.45	-73.40	-68.99	-1.45	-2.96	-13.00	-60.40
939.86	-70.97	-66.37	-1.97	-2.63	-13.00	-57.97
1415.00	-55.05	-59.25	7.79	-3.59	-13.00	-42.05

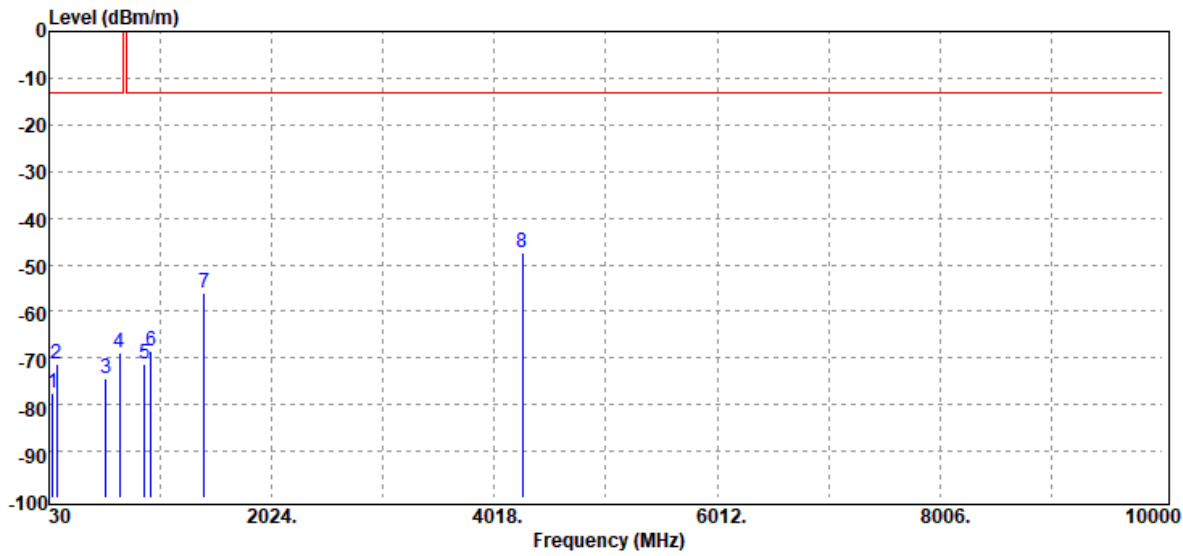
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Report Number :ER/2020/30083
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Frequency :711 MHz

Test Date :2020-06-12
 Temp./Humi. :25.1/70
 Antenna Pol. :VERTICAL
 Engineer :Neo



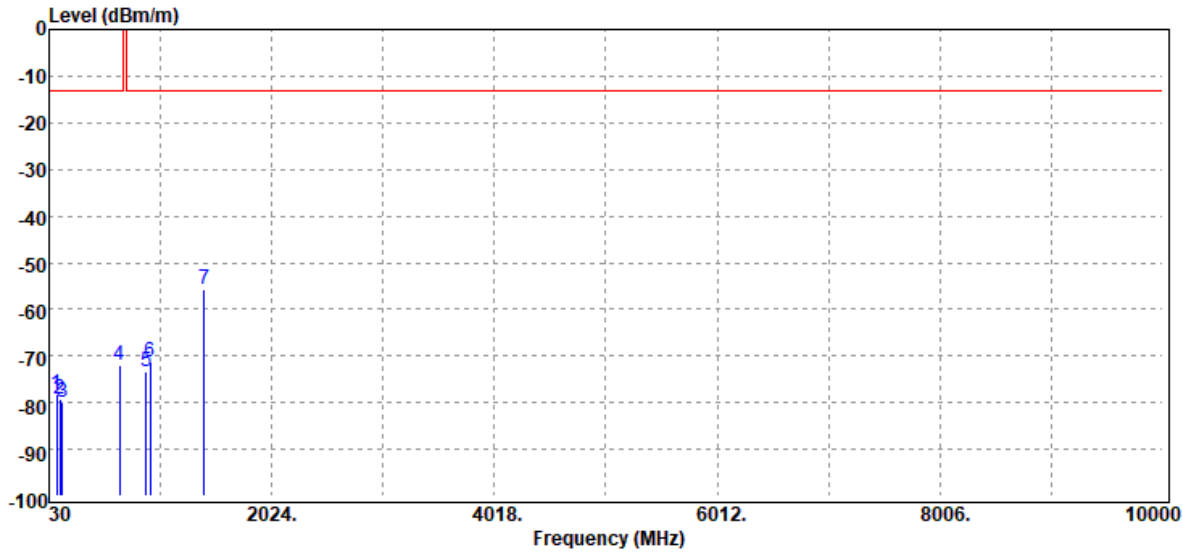
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
61.04	-77.36	-62.00	-14.61	-0.75	-13.00	-64.36
100.81	-71.26	-64.11	-6.20	-0.95	-13.00	-58.26
539.25	-74.23	-71.02	-1.29	-1.92	-13.00	-61.23
660.50	-69.02	-64.99	-1.34	-2.69	-13.00	-56.02
885.54	-71.15	-66.69	-1.48	-2.98	-13.00	-58.15
941.80	-68.44	-63.80	-1.98	-2.66	-13.00	-55.44
1422.00	-56.07	-60.31	7.83	-3.59	-13.00	-43.07
4266.00	-47.27	-53.79	12.77	-6.25	-13.00	-34.27

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Report Number :ER/2020/30083
Operation Mode :LTE B12
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :711 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


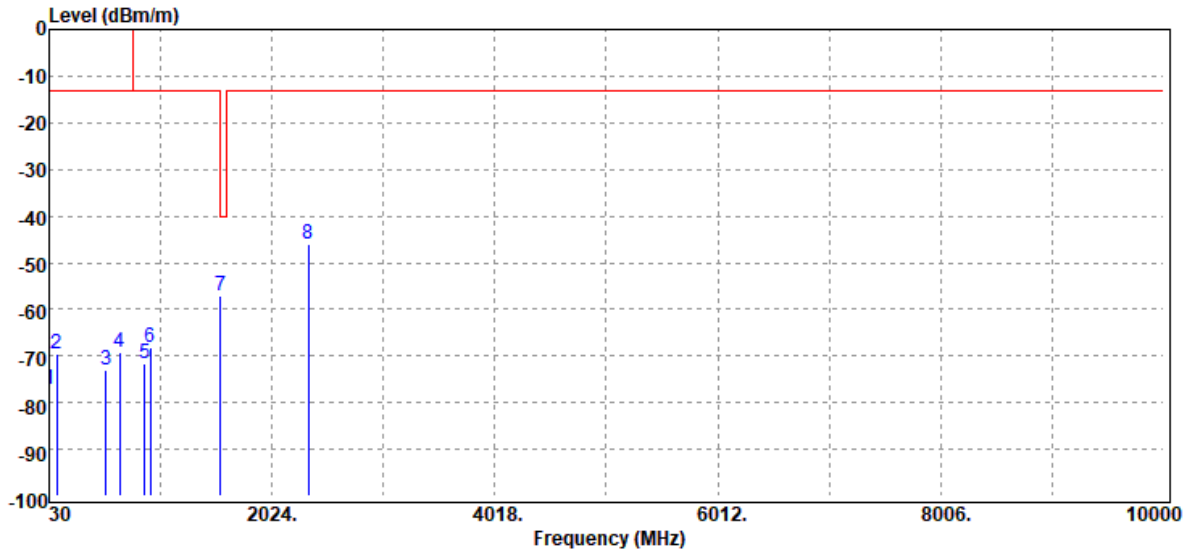
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-78.15	-71.00	-6.20	-0.95	-13.00	-65.15
126.03	-79.11	-70.58	-7.52	-1.01	-13.00	-66.11
151.25	-79.77	-71.12	-7.43	-1.22	-13.00	-66.77
660.50	-71.81	-67.78	-1.34	-2.69	-13.00	-58.81
900.09	-73.18	-68.55	-1.64	-2.99	-13.00	-60.18
938.89	-71.38	-66.77	-1.97	-2.64	-13.00	-58.38
1422.00	-55.76	-60.00	7.83	-3.59	-13.00	-42.76

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

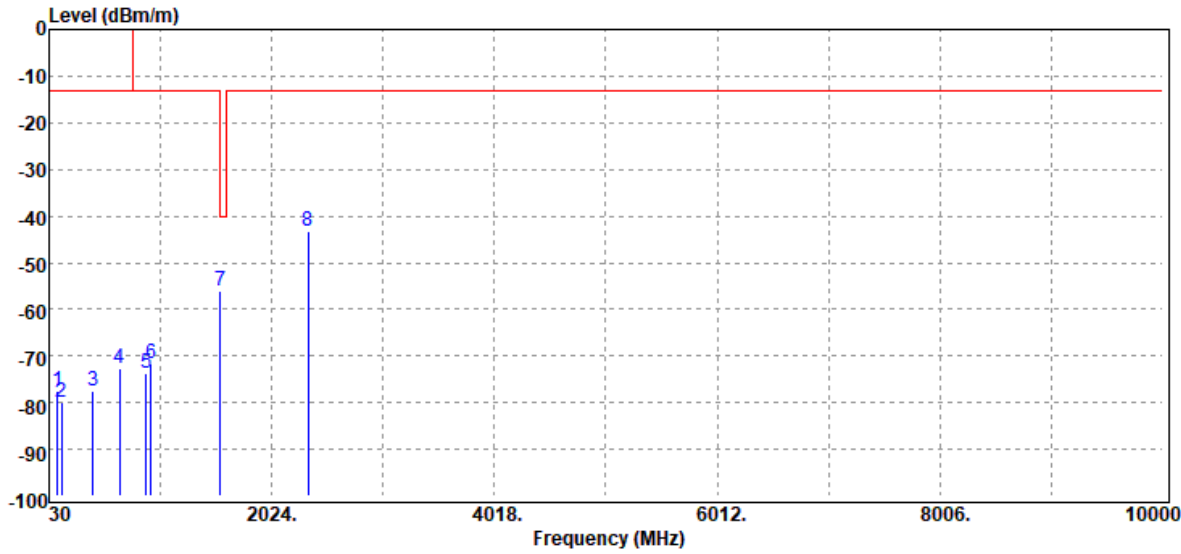
Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-77.01	-57.19	-19.23	-0.59	-13.00	-64.01
97.90	-69.68	-62.95	-5.79	-0.94	-13.00	-56.68
536.34	-73.06	-69.83	-1.34	-1.89	-13.00	-60.06
659.53	-69.10	-65.09	-1.33	-2.68	-13.00	-56.10
885.54	-71.59	-67.13	-1.48	-2.98	-13.00	-58.59
938.89	-68.14	-63.53	-1.97	-2.64	-13.00	-55.14
1564.00	-57.00	-62.36	9.11	-3.75	-40.00	-17.00
2346.00	-46.07	-51.29	9.86	-4.64	-13.00	-33.07

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

Test Date :2020-06-12
Temp./Humi. :25.1/70
Antenna Pol. :HORIZONTAL
Engineer :Neo


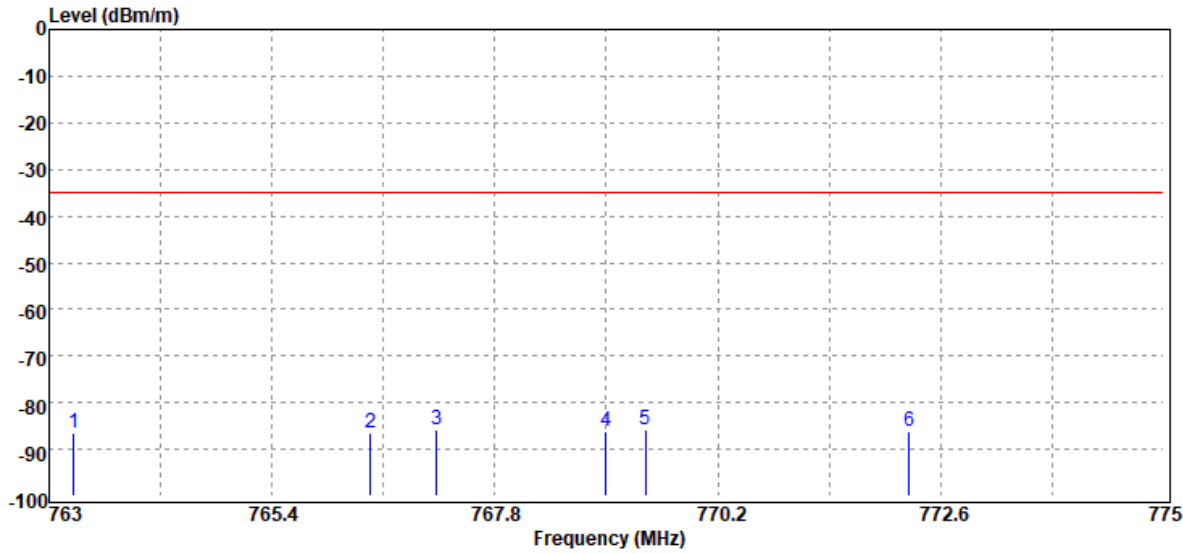
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-77.66	-70.26	-6.44	-0.96	-13.00	-64.66
144.46	-79.82	-70.88	-7.79	-1.15	-13.00	-66.82
425.76	-77.38	-73.67	-1.57	-2.14	-13.00	-64.38
659.53	-72.67	-68.66	-1.33	-2.68	-13.00	-59.67
896.21	-73.57	-69.00	-1.60	-2.97	-13.00	-60.57
939.86	-71.68	-67.08	-1.97	-2.63	-13.00	-58.68
1564.00	-55.94	-61.30	9.11	-3.75	-40.00	-15.94
2346.00	-43.21	-48.43	9.86	-4.64	-13.00	-30.21

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


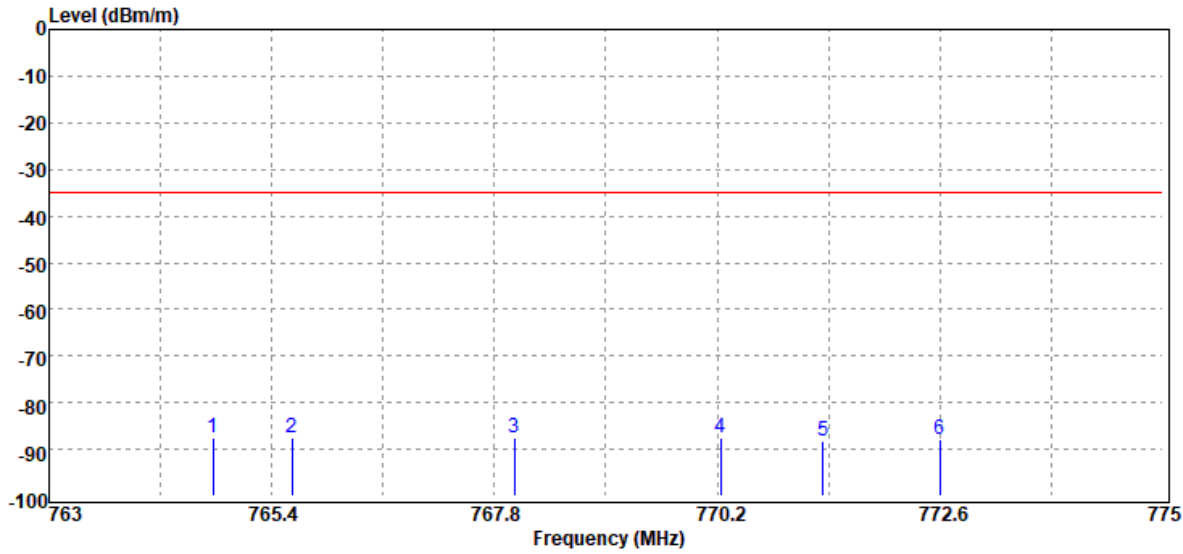
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.26	-86.67	-82.41	-1.77	-2.49	-35.00	-51.67
766.46	-86.39	-82.23	-1.82	-2.34	-35.00	-51.39
767.18	-85.98	-81.82	-1.86	-2.30	-35.00	-50.98
769.00	-86.31	-82.15	-1.95	-2.21	-35.00	-51.31
769.42	-85.71	-81.55	-1.97	-2.19	-35.00	-50.71
772.26	-86.16	-82.04	-1.93	-2.19	-35.00	-51.16

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


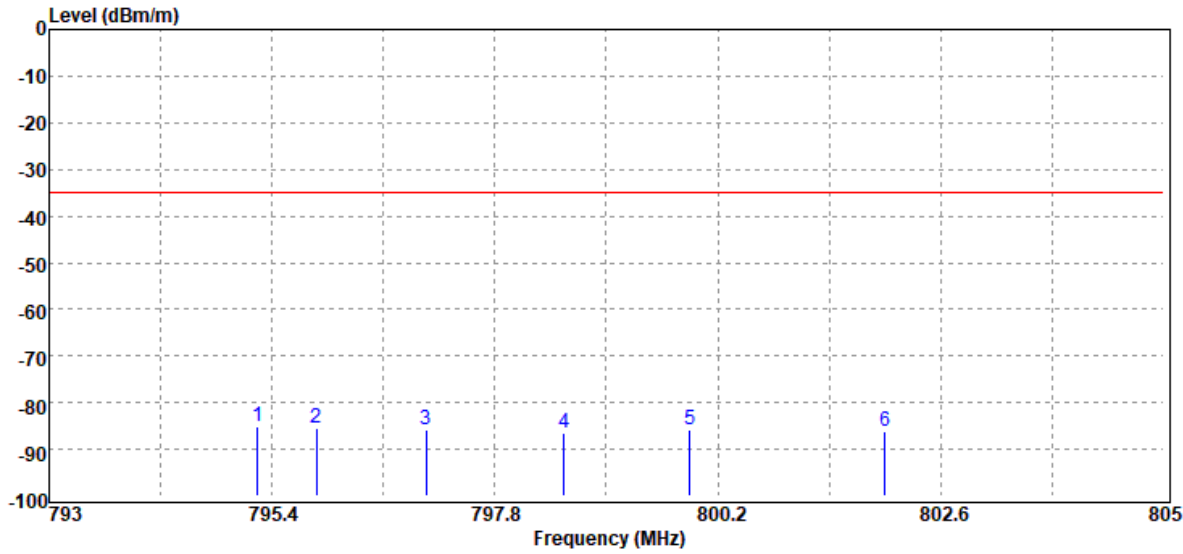
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
764.76	-87.66	-83.48	-1.76	-2.42	-35.00	-52.66
765.62	-87.65	-83.49	-1.78	-2.38	-35.00	-52.65
768.02	-87.48	-83.32	-1.90	-2.26	-35.00	-52.48
770.24	-87.58	-83.42	-1.99	-2.17	-35.00	-52.58
771.34	-88.11	-83.98	-1.95	-2.18	-35.00	-53.11
772.60	-87.82	-83.71	-1.92	-2.19	-35.00	-52.82

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


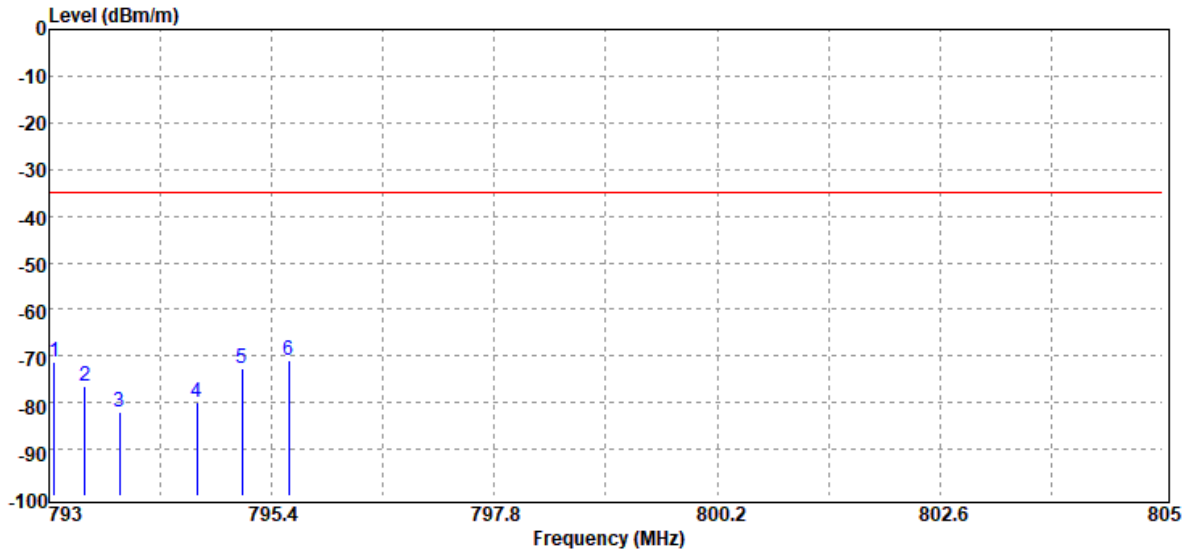
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
795.24	-84.97	-80.59	-1.62	-2.76	-35.00	-49.97
795.88	-85.61	-81.23	-1.61	-2.77	-35.00	-50.61
797.06	-85.78	-81.40	-1.60	-2.78	-35.00	-50.78
798.54	-86.46	-82.08	-1.58	-2.80	-35.00	-51.46
799.90	-85.96	-81.57	-1.57	-2.82	-35.00	-50.96
802.00	-86.20	-81.80	-1.58	-2.82	-35.00	-51.20

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Report Number :ER/2020/30083
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :782 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.06	-71.40	-67.07	-1.60	-2.73	-35.00	-36.40
793.38	-76.33	-72.00	-1.60	-2.73	-35.00	-41.33
793.76	-82.13	-77.78	-1.61	-2.74	-35.00	-47.13
794.60	-79.89	-75.52	-1.62	-2.75	-35.00	-44.89
795.08	-72.75	-68.37	-1.62	-2.76	-35.00	-37.75
795.58	-70.81	-66.44	-1.61	-2.76	-35.00	-35.81

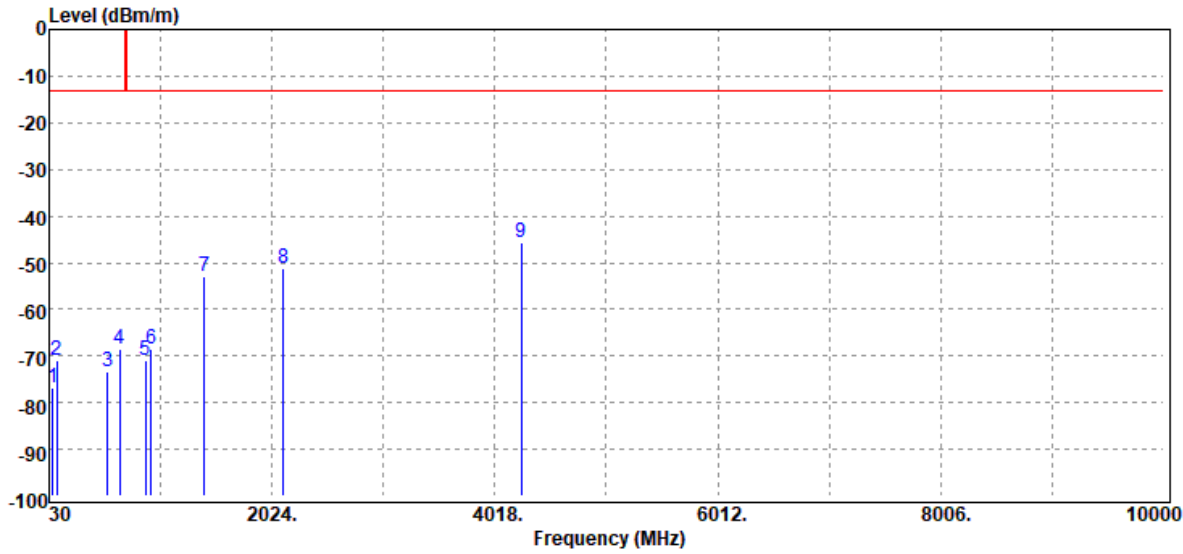
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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :709 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.01	-76.77	-61.63	-14.38	-0.76	-13.00	-63.77
97.90	-70.86	-64.13	-5.79	-0.94	-13.00	-57.86
549.92	-73.37	-69.95	-1.22	-2.20	-13.00	-60.37
659.53	-68.63	-64.62	-1.33	-2.68	-13.00	-55.63
895.24	-70.93	-66.37	-1.59	-2.97	-13.00	-57.93
941.80	-68.57	-63.93	-1.98	-2.66	-13.00	-55.57
1418.00	-52.85	-57.07	7.81	-3.59	-13.00	-39.85
2127.00	-51.31	-56.60	9.73	-4.44	-13.00	-38.31
4254.00	-45.70	-52.20	12.79	-6.29	-13.00	-32.70

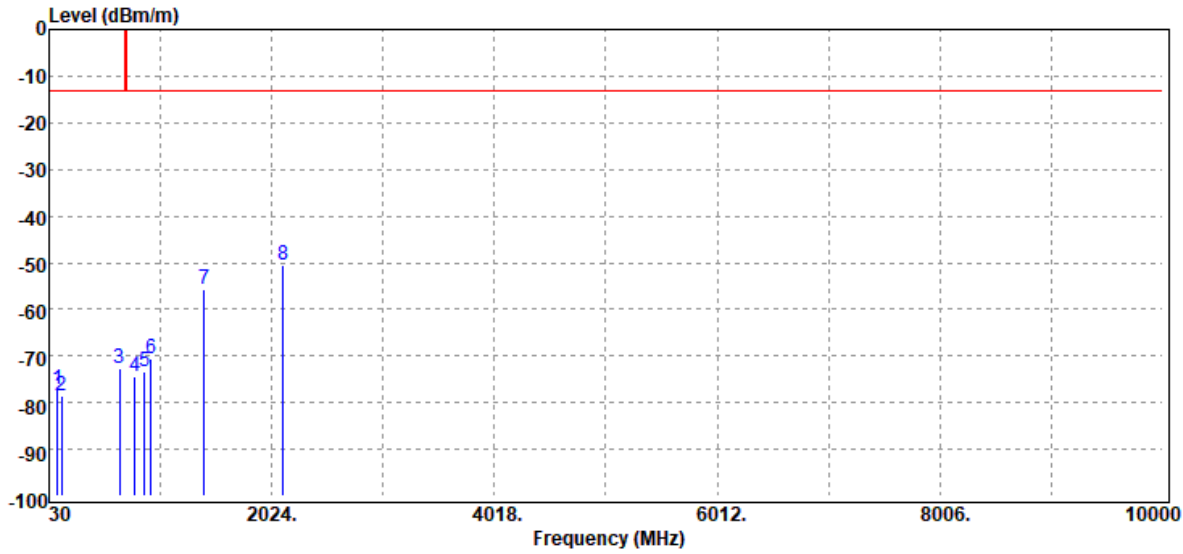
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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :709 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-77.21	-69.81	-6.44	-0.96	-13.00	-64.21
144.46	-78.42	-69.48	-7.79	-1.15	-13.00	-65.42
659.53	-72.69	-68.68	-1.33	-2.68	-13.00	-59.69
798.24	-74.43	-70.05	-1.58	-2.80	-13.00	-61.43
885.54	-73.45	-68.99	-1.48	-2.98	-13.00	-60.45
939.86	-70.73	-66.13	-1.97	-2.63	-13.00	-57.73
1418.00	-55.65	-59.87	7.81	-3.59	-13.00	-42.65
2127.00	-50.55	-55.84	9.73	-4.44	-13.00	-37.55

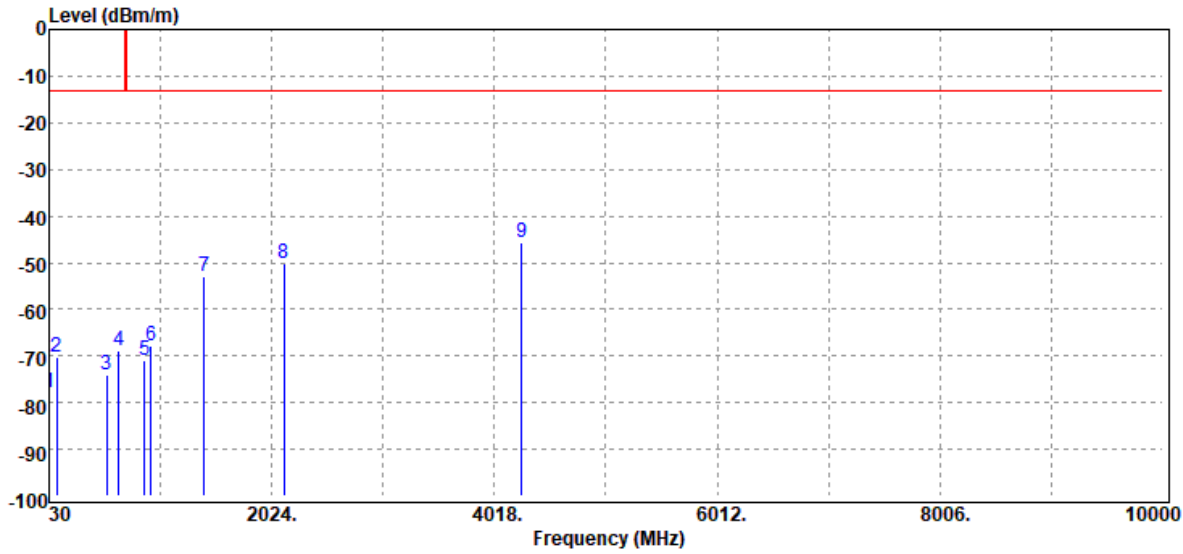
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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :710 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-77.70	-56.72	-20.43	-0.55	-13.00	-64.70
100.81	-70.12	-62.97	-6.20	-0.95	-13.00	-57.12
548.95	-74.11	-70.72	-1.22	-2.17	-13.00	-61.11
657.59	-68.77	-64.81	-1.32	-2.64	-13.00	-55.77
888.45	-70.91	-66.50	-1.45	-2.96	-13.00	-57.91
939.86	-67.92	-63.32	-1.97	-2.63	-13.00	-54.92
1420.00	-53.03	-57.26	7.82	-3.59	-13.00	-40.03
2130.00	-50.32	-55.58	9.70	-4.44	-13.00	-37.32
4260.00	-45.68	-52.19	12.78	-6.27	-13.00	-32.68

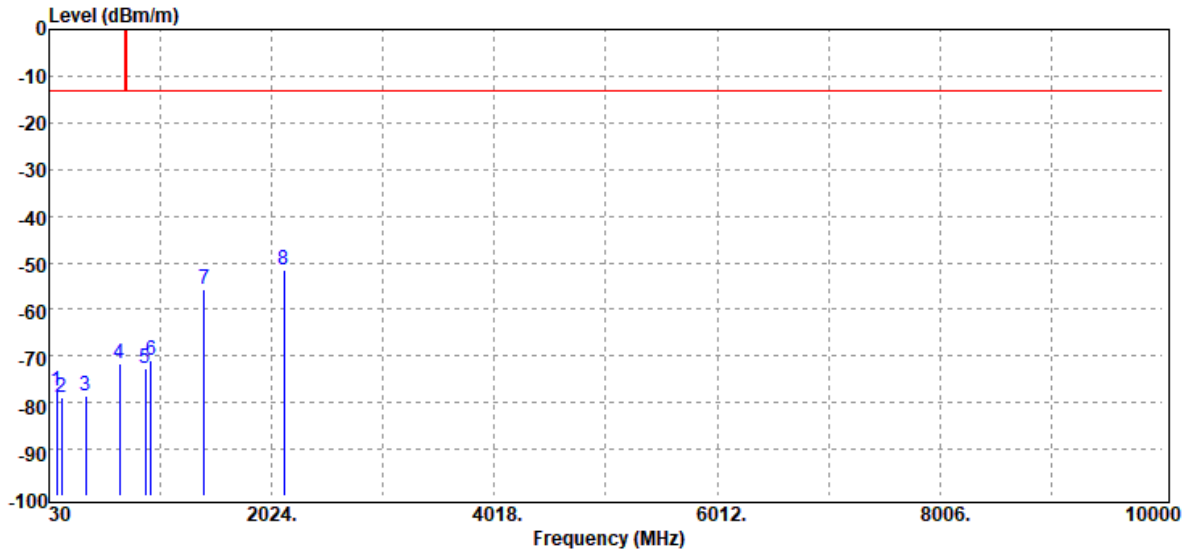
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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :710 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.63	-70.48	-6.20	-0.95	-13.00	-64.63
144.46	-78.96	-70.02	-7.79	-1.15	-13.00	-65.96
359.80	-78.38	-75.17	-1.50	-1.71	-13.00	-65.38
659.53	-71.78	-67.77	-1.33	-2.68	-13.00	-58.78
893.30	-72.79	-68.29	-1.54	-2.96	-13.00	-59.79
939.86	-71.07	-66.47	-1.97	-2.63	-13.00	-58.07
1420.00	-55.69	-59.92	7.82	-3.59	-13.00	-42.69
2130.00	-51.40	-56.66	9.70	-4.44	-13.00	-38.40

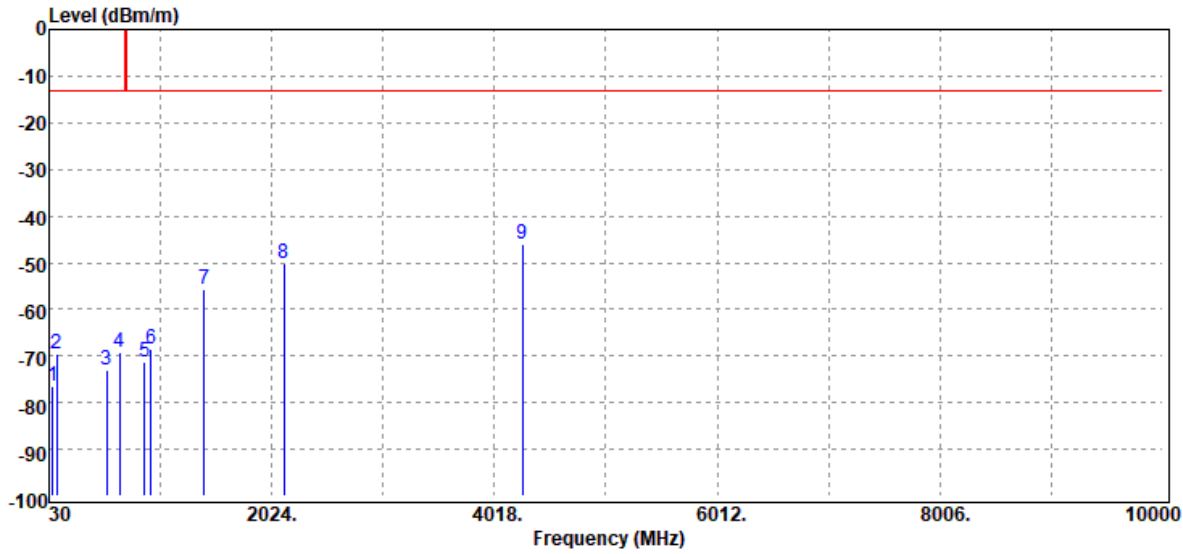
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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :711 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo



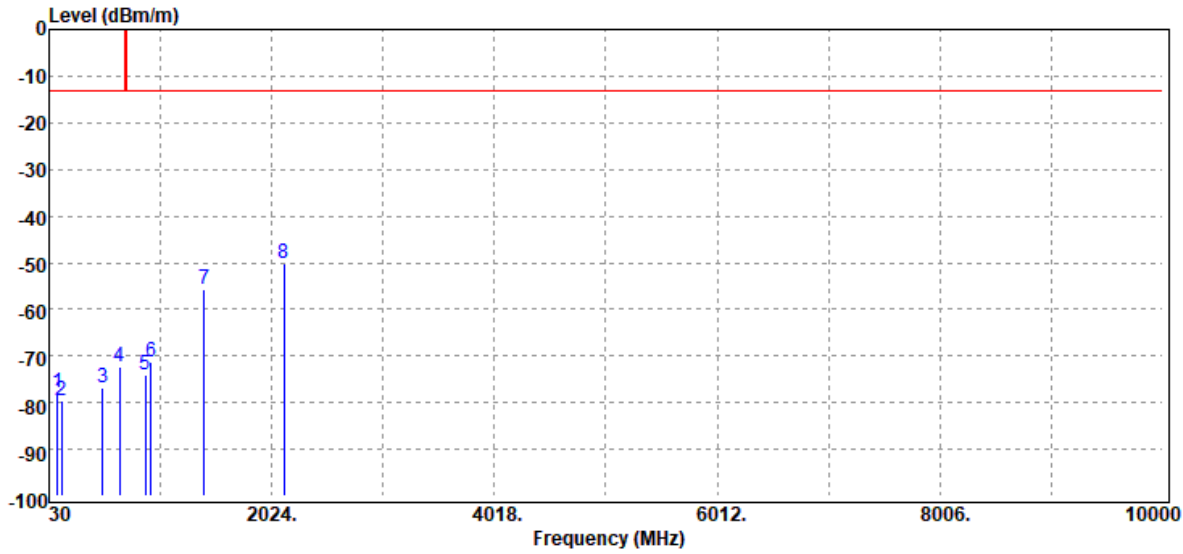
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-76.49	-61.13	-14.61	-0.75	-13.00	-63.49
99.84	-69.49	-62.53	-6.01	-0.95	-13.00	-56.49
548.95	-73.05	-69.66	-1.22	-2.17	-13.00	-60.05
659.53	-69.15	-65.14	-1.33	-2.68	-13.00	-56.15
886.51	-71.14	-66.70	-1.47	-2.97	-13.00	-58.14
939.86	-68.66	-64.06	-1.97	-2.63	-13.00	-55.66
1422.00	-55.68	-59.92	7.83	-3.59	-13.00	-42.68
2133.00	-50.22	-55.45	9.67	-4.44	-13.00	-37.22
4266.00	-46.10	-52.62	12.77	-6.25	-13.00	-33.10

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Report Number :ER/2020/30083
Operation Mode :LTE B17
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :711 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo


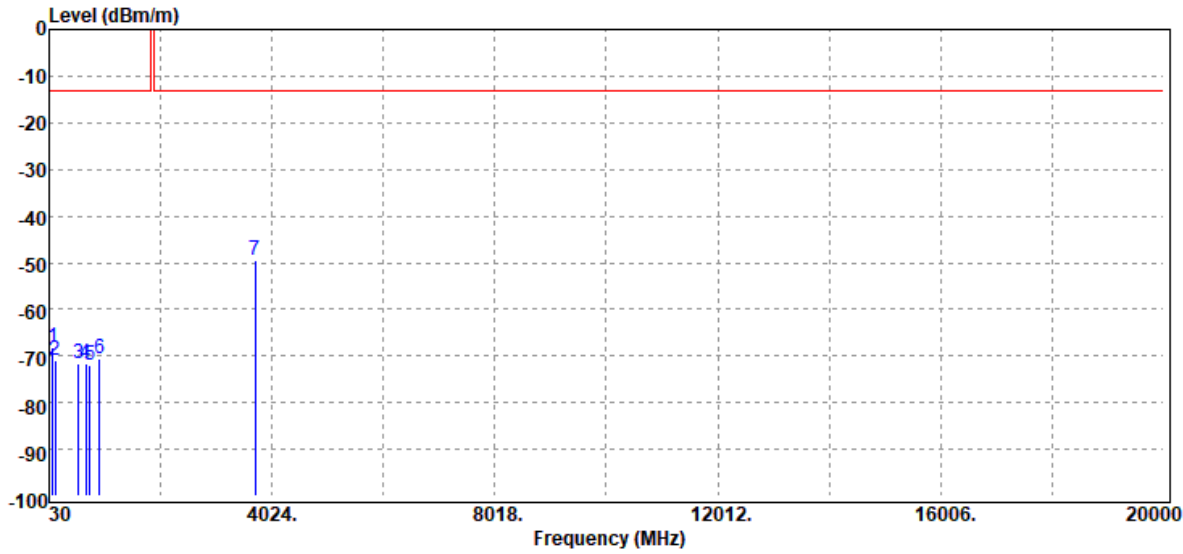
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
102.75	-78.01	-70.61	-6.44	-0.96	-13.00	-65.01
144.46	-79.41	-70.47	-7.79	-1.15	-13.00	-66.41
510.15	-76.89	-72.94	-1.57	-2.38	-13.00	-63.89
659.53	-72.46	-68.45	-1.33	-2.68	-13.00	-59.46
895.24	-74.06	-69.50	-1.59	-2.97	-13.00	-61.06
941.80	-71.24	-66.60	-1.98	-2.66	-13.00	-58.24
1422.00	-55.64	-59.88	7.83	-3.59	-13.00	-42.64
2133.00	-50.16	-55.39	9.67	-4.44	-13.00	-37.16

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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1860 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo


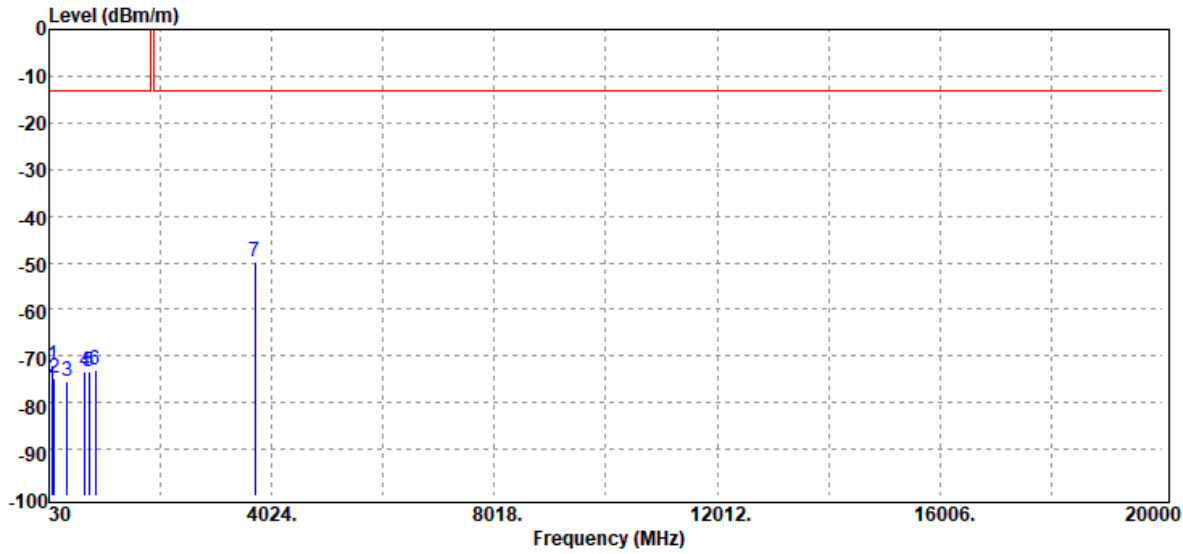
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.06	-60.91	-6.20	-0.95	-13.00	-55.06
144.46	-70.92	-61.98	-7.79	-1.15	-13.00	-57.92
550.89	-71.63	-68.18	-1.24	-2.21	-13.00	-58.63
681.84	-71.52	-67.79	-1.45	-2.28	-13.00	-58.52
755.56	-71.84	-67.30	-1.77	-2.77	-13.00	-58.84
939.86	-70.60	-66.00	-1.97	-2.63	-13.00	-57.60
3720.00	-49.49	-56.07	12.40	-5.82	-13.00	-36.49

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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1860 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-72.06	-65.55	-5.58	-0.93	-13.00	-59.06
122.15	-74.66	-66.21	-7.40	-1.05	-13.00	-61.66
350.10	-75.52	-72.15	-1.54	-1.83	-13.00	-62.52
675.05	-73.39	-69.38	-1.44	-2.57	-13.00	-60.39
750.71	-73.22	-68.59	-1.73	-2.90	-13.00	-60.22
862.26	-73.08	-69.13	-1.56	-2.39	-13.00	-60.08
3720.00	-49.79	-56.37	12.40	-5.82	-13.00	-36.79

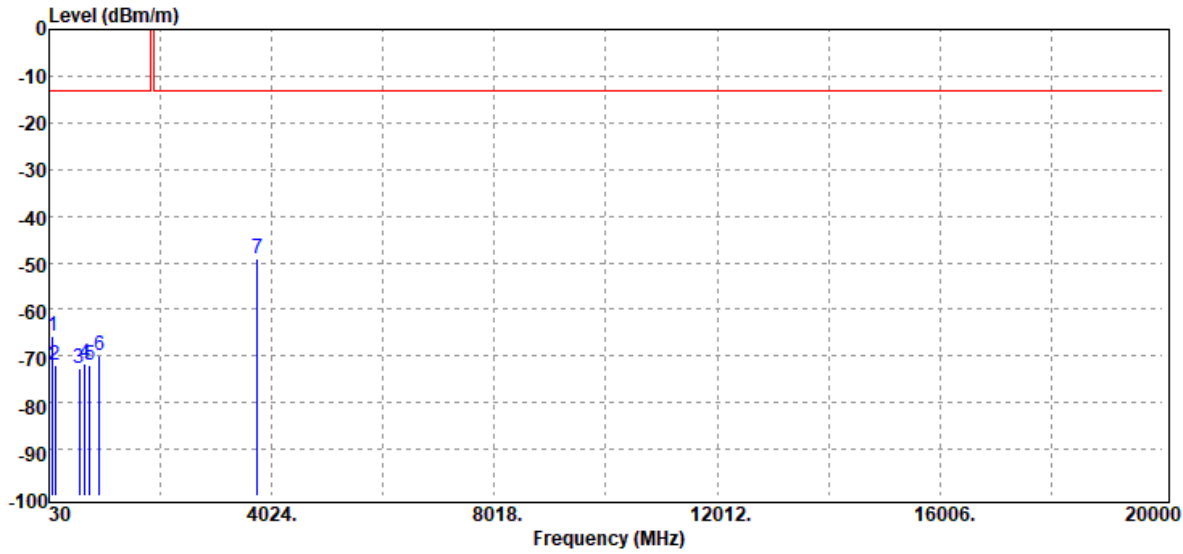
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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1882.5 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-65.66	-58.51	-6.20	-0.95	-13.00	-52.66
136.70	-71.93	-62.97	-7.91	-1.05	-13.00	-58.93
568.35	-72.52	-68.76	-1.47	-2.29	-13.00	-59.52
673.11	-71.48	-67.35	-1.46	-2.67	-13.00	-58.48
764.29	-72.01	-67.81	-1.76	-2.44	-13.00	-59.01
927.25	-69.97	-65.28	-1.93	-2.76	-13.00	-56.97
3765.00	-49.27	-55.94	12.40	-5.73	-13.00	-36.27

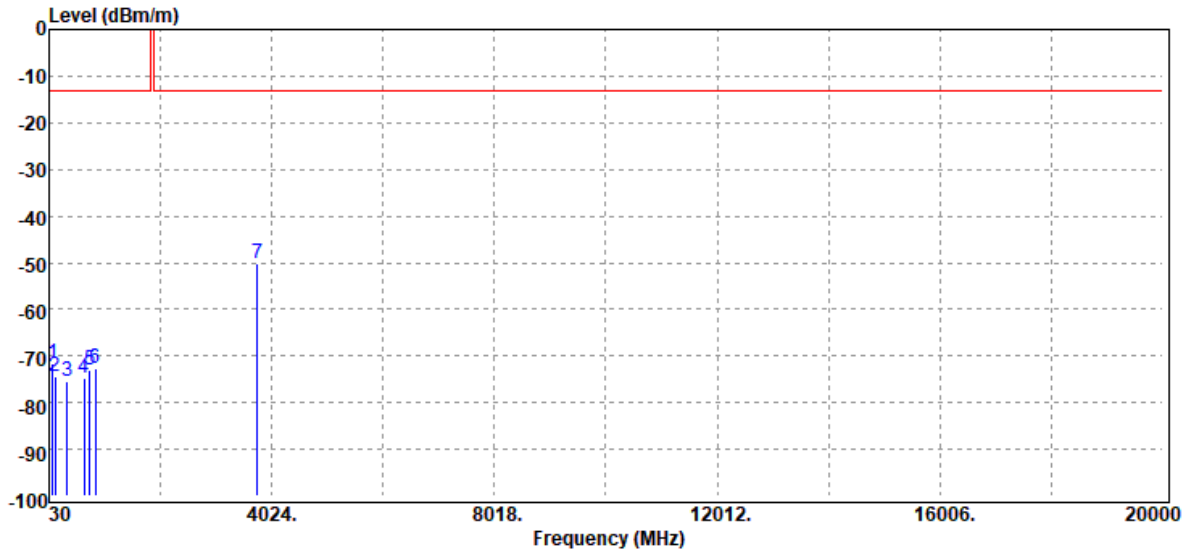
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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1882.5 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-71.77	-65.30	-5.55	-0.92	-13.00	-58.77
136.70	-74.23	-65.27	-7.91	-1.05	-13.00	-61.23
350.10	-75.33	-71.96	-1.54	-1.83	-13.00	-62.33
660.50	-74.62	-70.59	-1.34	-2.69	-13.00	-61.62
762.35	-72.94	-68.62	-1.78	-2.54	-13.00	-59.94
856.44	-72.80	-68.92	-1.57	-2.31	-13.00	-59.80
3765.00	-50.10	-56.77	12.40	-5.73	-13.00	-37.10

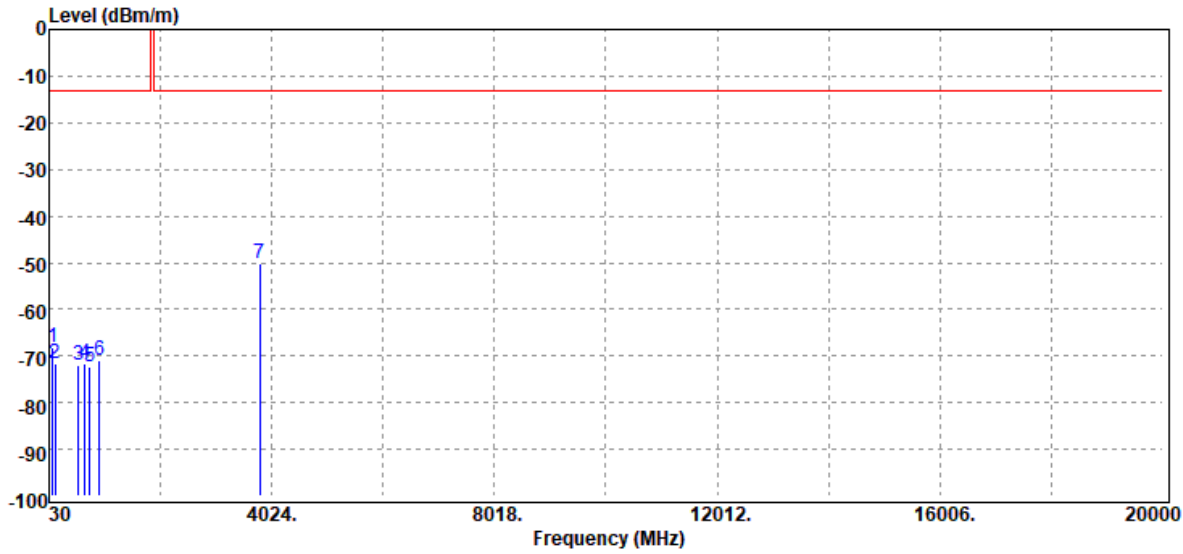
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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1905 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :VERTICAL
Engineer :Neo



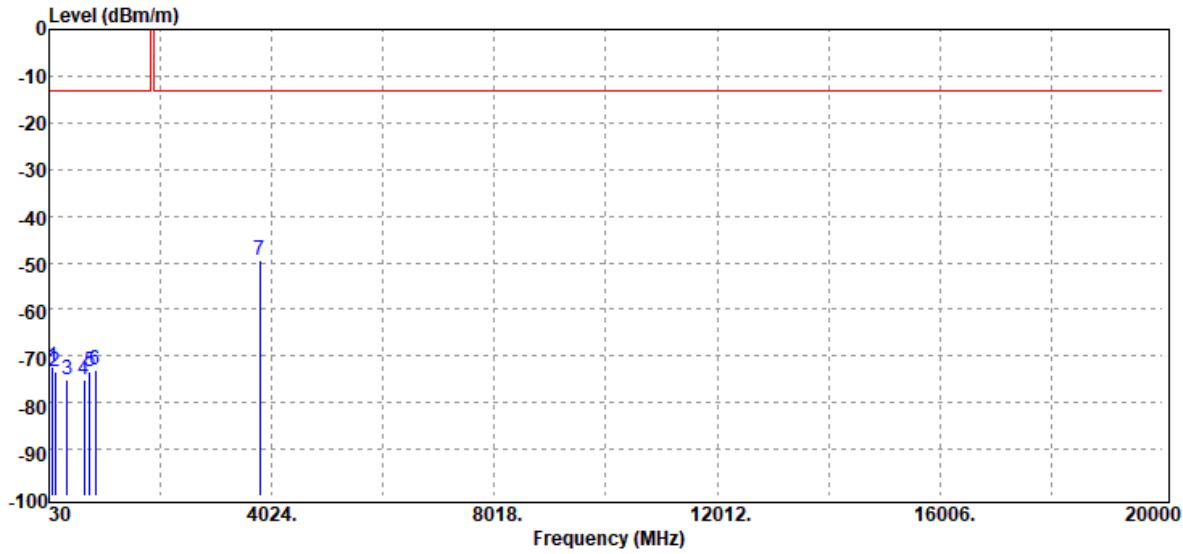
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.26	-61.30	-6.01	-0.95	-13.00	-55.26
143.49	-71.64	-62.66	-7.84	-1.14	-13.00	-58.64
556.71	-72.07	-68.46	-1.35	-2.26	-13.00	-59.07
670.20	-71.79	-67.48	-1.50	-2.81	-13.00	-58.79
757.50	-72.20	-67.69	-1.79	-2.72	-13.00	-59.20
930.16	-70.95	-66.27	-1.96	-2.72	-13.00	-57.95
3810.00	-50.31	-57.01	12.42	-5.72	-13.00	-37.31

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Report Number :ER/2020/30083
Operation Mode :LTE B25
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1905 MHz

Test Date :2020-06-17
Temp./Humi. :25.8/61
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-72.19	-65.72	-5.55	-0.92	-13.00	-59.19
144.46	-73.49	-64.55	-7.79	-1.15	-13.00	-60.49
354.95	-75.02	-71.73	-1.52	-1.77	-13.00	-62.02
663.41	-74.93	-70.84	-1.36	-2.73	-13.00	-61.93
757.50	-73.48	-68.97	-1.79	-2.72	-13.00	-60.48
857.41	-73.01	-69.14	-1.56	-2.31	-13.00	-60.01
3810.00	-49.60	-56.30	12.42	-5.72	-13.00	-36.60

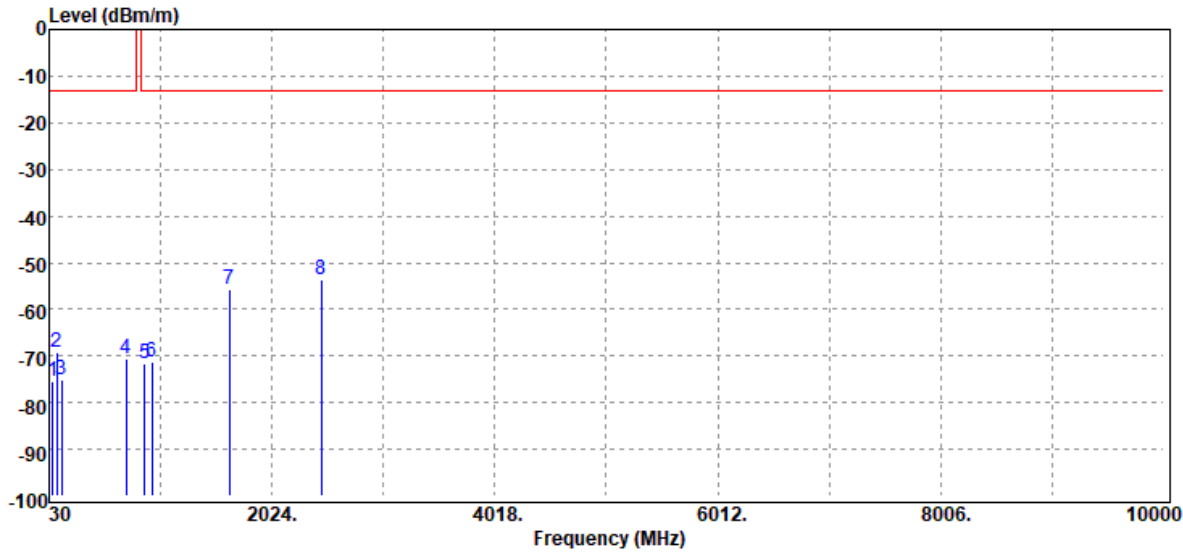
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Report Number :ER/2020/30083
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane
 Test Frequency :821.5 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.01	-75.39	-60.25	-14.38	-0.76	-13.00	-62.39
100.81	-69.36	-62.21	-6.20	-0.95	-13.00	-56.36
138.64	-75.15	-66.12	-7.95	-1.08	-13.00	-62.15
719.67	-70.49	-66.66	-1.19	-2.64	-13.00	-57.49
885.54	-71.59	-67.13	-1.48	-2.98	-13.00	-58.59
946.65	-71.27	-66.58	-1.97	-2.72	-13.00	-58.27
1643.00	-55.70	-61.59	9.74	-3.85	-13.00	-42.70
2464.50	-53.65	-59.61	10.72	-4.76	-13.00	-40.65

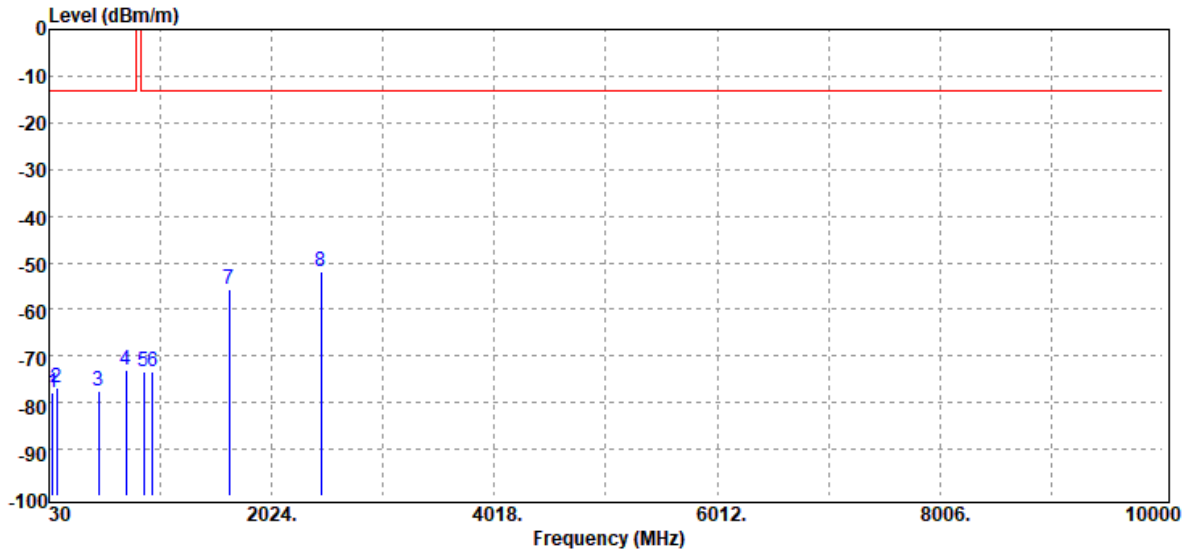
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Report Number :ER/2020/30083
Operation Mode :LTE B26
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :821.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.01	-77.92	-62.78	-14.38	-0.76	-13.00	-64.92
99.84	-76.86	-69.90	-6.01	-0.95	-13.00	-63.86
473.29	-77.41	-73.57	-1.79	-2.05	-13.00	-64.41
718.70	-73.00	-69.15	-1.22	-2.63	-13.00	-60.00
875.84	-73.50	-69.03	-1.56	-2.91	-13.00	-60.50
956.35	-73.28	-68.52	-1.81	-2.95	-13.00	-60.28
1643.00	-55.56	-61.45	9.74	-3.85	-13.00	-42.56
2464.50	-52.04	-58.00	10.72	-4.76	-13.00	-39.04

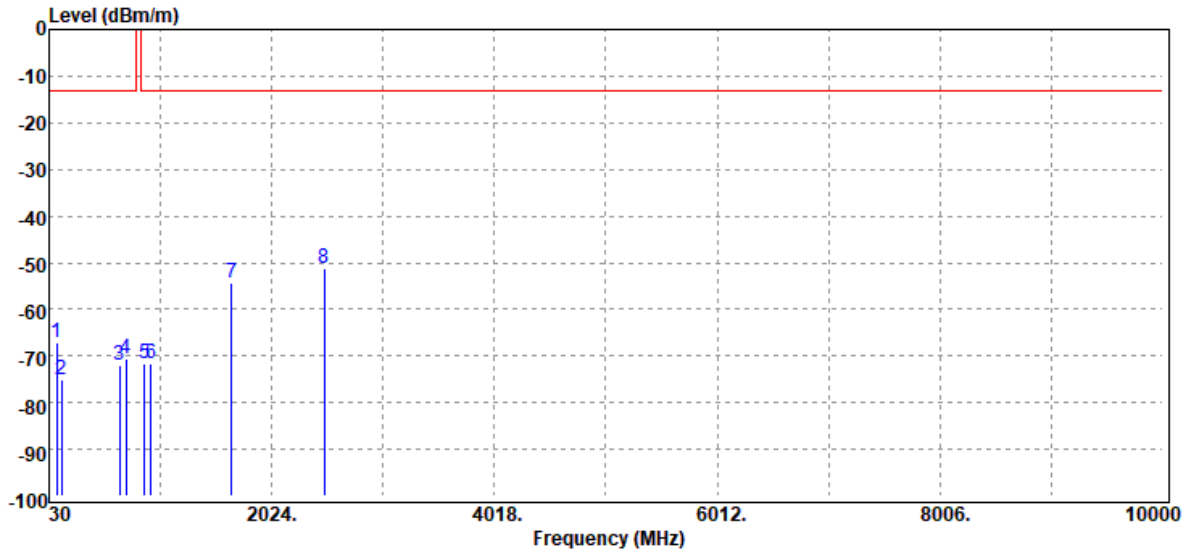
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Report Number :ER/2020/30083
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane
 Test Frequency :831.5 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.15	-60.00	-6.20	-0.95	-13.00	-54.15
139.61	-74.92	-65.90	-7.93	-1.09	-13.00	-61.92
662.44	-71.92	-67.85	-1.35	-2.72	-13.00	-58.92
718.70	-70.53	-66.68	-1.22	-2.63	-13.00	-57.53
881.66	-71.75	-67.30	-1.45	-3.00	-13.00	-58.75
944.71	-71.57	-66.87	-2.01	-2.69	-13.00	-58.57
1663.00	-54.46	-60.38	9.80	-3.88	-13.00	-41.46
2494.50	-51.36	-57.52	10.96	-4.80	-13.00	-38.36

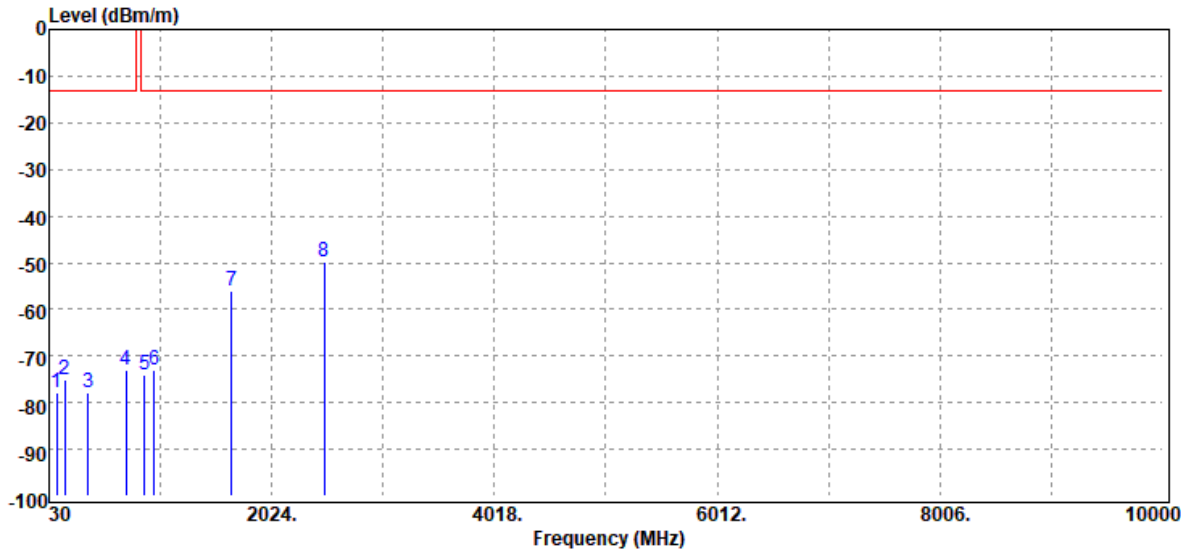
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Report Number :ER/2020/30083
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane
 Test Frequency :831.5 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-77.81	-71.08	-5.79	-0.94	-13.00	-64.81
167.74	-75.04	-67.55	-6.23	-1.26	-13.00	-62.04
382.11	-77.90	-74.56	-1.53	-1.81	-13.00	-64.90
720.64	-72.93	-69.07	-1.21	-2.65	-13.00	-59.93
888.45	-73.93	-69.52	-1.45	-2.96	-13.00	-60.93
968.96	-73.04	-68.12	-1.80	-3.12	-13.00	-60.04
1663.00	-55.96	-61.88	9.80	-3.88	-13.00	-42.96
2494.50	-49.74	-55.90	10.96	-4.80	-13.00	-36.74

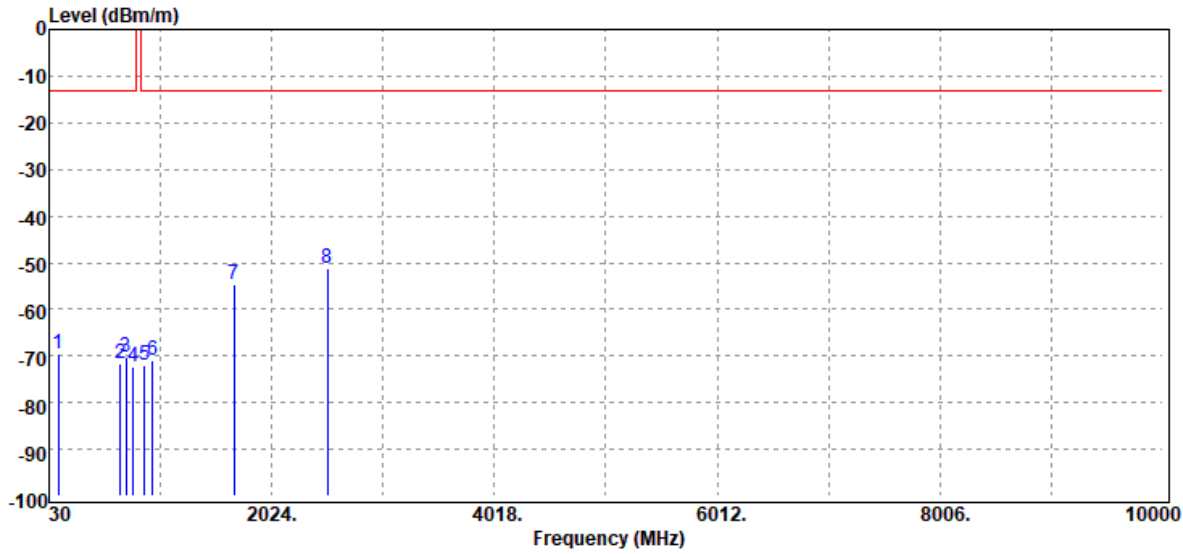
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Report Number :ER/2020/30083
Operation Mode :LTE B26
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :841.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-69.47	-61.35	-7.11	-1.01	-13.00	-56.47
667.29	-71.65	-67.44	-1.43	-2.78	-13.00	-58.65
719.67	-70.39	-66.56	-1.19	-2.64	-13.00	-57.39
786.60	-72.43	-68.20	-1.68	-2.55	-13.00	-59.43
886.51	-71.81	-67.37	-1.47	-2.97	-13.00	-58.81
956.35	-70.85	-66.09	-1.81	-2.95	-13.00	-57.85
1683.00	-54.73	-60.62	9.80	-3.91	-13.00	-41.73
2524.50	-51.28	-57.55	11.10	-4.83	-13.00	-38.28

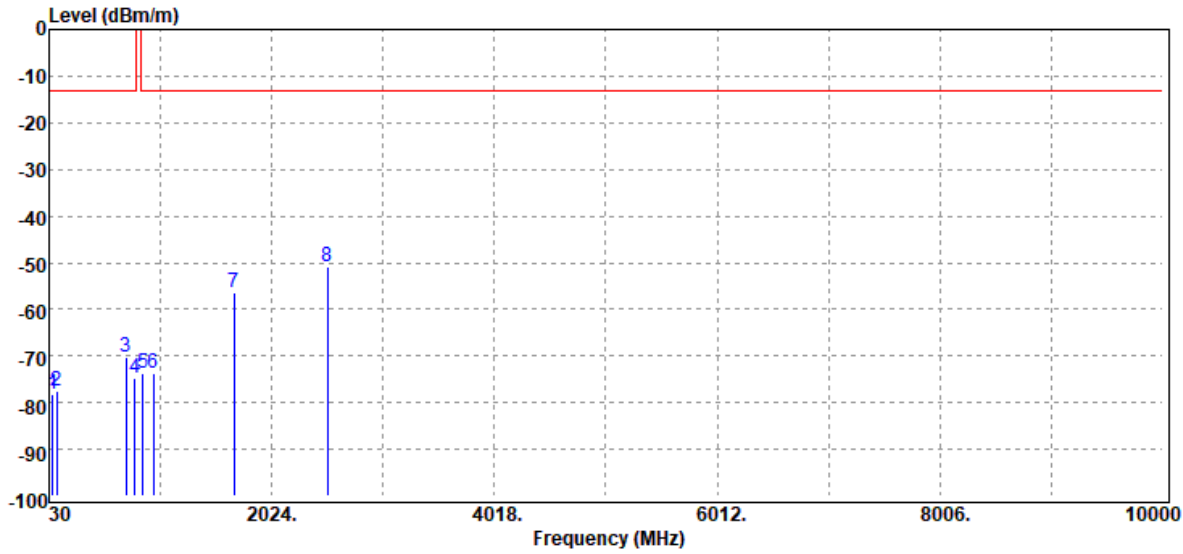
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Report Number :ER/2020/30083
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Frequency :841.5 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.01	-78.22	-63.08	-14.38	-0.76	-13.00	-65.22
100.81	-77.51	-70.36	-6.20	-0.95	-13.00	-64.51
721.61	-70.17	-66.26	-1.26	-2.65	-13.00	-57.17
796.30	-74.60	-70.22	-1.61	-2.77	-13.00	-61.60
873.90	-73.70	-69.25	-1.58	-2.87	-13.00	-60.70
966.05	-73.70	-68.77	-1.83	-3.10	-13.00	-60.70
1683.00	-56.33	-62.22	9.80	-3.91	-13.00	-43.33
2524.50	-50.78	-57.05	11.10	-4.83	-13.00	-37.78

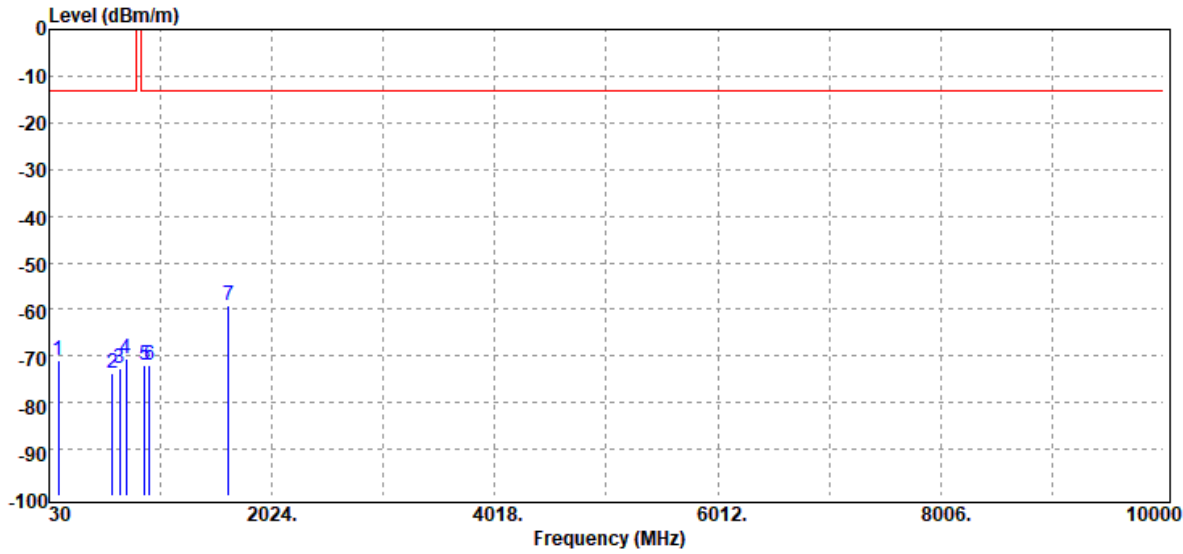
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Report Number :ER/2020/30083
Operation Mode :LTE B26 Part90
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :816.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



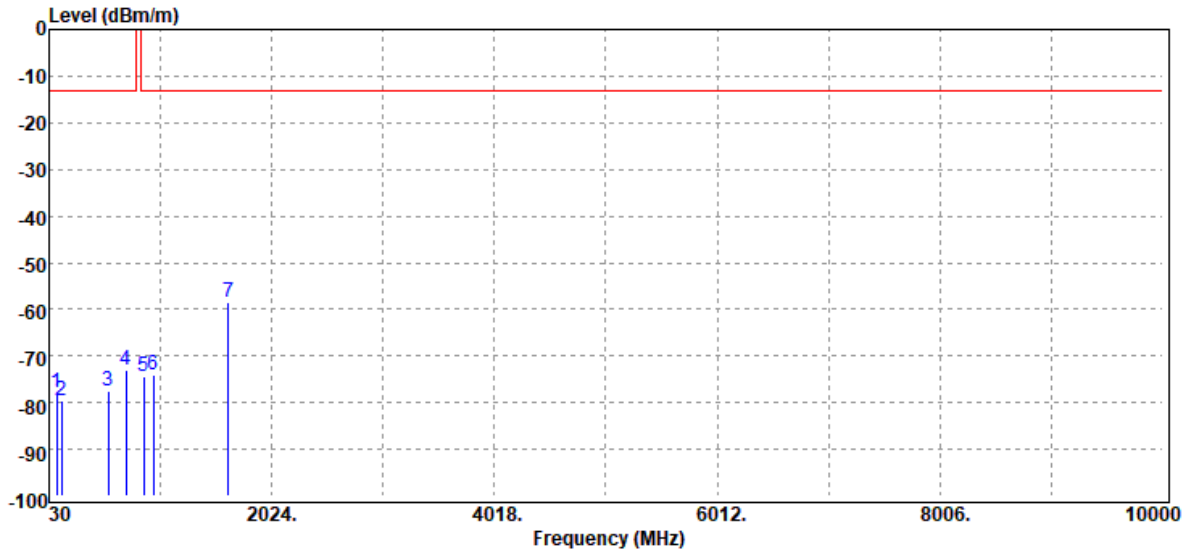
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-70.84	-62.75	-7.09	-1.00	-13.00	-57.84
594.54	-73.53	-69.24	-1.83	-2.46	-13.00	-60.53
660.50	-72.70	-68.67	-1.34	-2.69	-13.00	-59.70
720.64	-70.46	-66.60	-1.21	-2.65	-13.00	-57.46
881.66	-72.12	-67.67	-1.45	-3.00	-13.00	-59.12
930.16	-71.88	-67.20	-1.96	-2.72	-13.00	-58.88
1633.00	-59.29	-65.12	9.67	-3.84	-13.00	-46.29

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Report Number :ER/2020/30083
Operation Mode :LTE B26 Part90
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :816.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


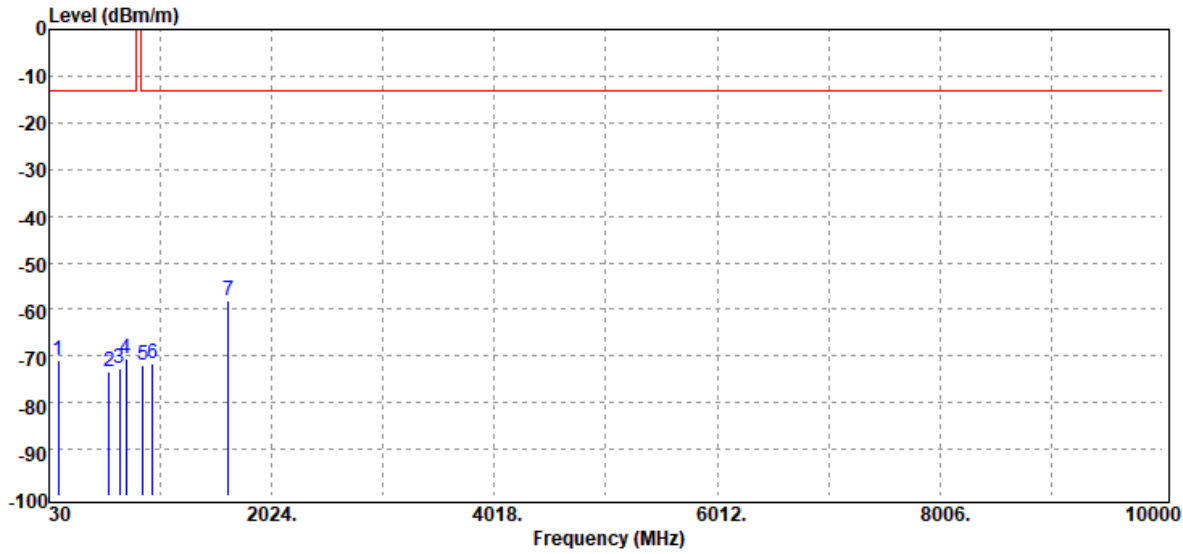
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.99	-70.84	-6.20	-0.95	-13.00	-64.99
144.46	-79.65	-70.71	-7.79	-1.15	-13.00	-66.65
560.59	-77.36	-73.71	-1.37	-2.28	-13.00	-64.36
720.64	-73.11	-69.25	-1.21	-2.65	-13.00	-60.11
876.81	-74.44	-69.98	-1.53	-2.93	-13.00	-61.44
963.14	-74.07	-69.17	-1.82	-3.08	-13.00	-61.07
1633.00	-58.43	-64.26	9.67	-3.84	-13.00	-45.43

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Report Number :ER/2020/30083
Operation Mode :LTE B26 Part90
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :819 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-70.87	-62.78	-7.09	-1.00	-13.00	-57.87
565.44	-73.27	-69.58	-1.40	-2.29	-13.00	-60.27
660.50	-72.72	-68.69	-1.34	-2.69	-13.00	-59.72
718.70	-70.70	-66.85	-1.22	-2.63	-13.00	-57.70
873.90	-71.81	-67.36	-1.58	-2.87	-13.00	-58.81
958.29	-71.51	-66.70	-1.80	-3.01	-13.00	-58.51
1638.00	-58.08	-63.94	9.71	-3.85	-13.00	-45.08

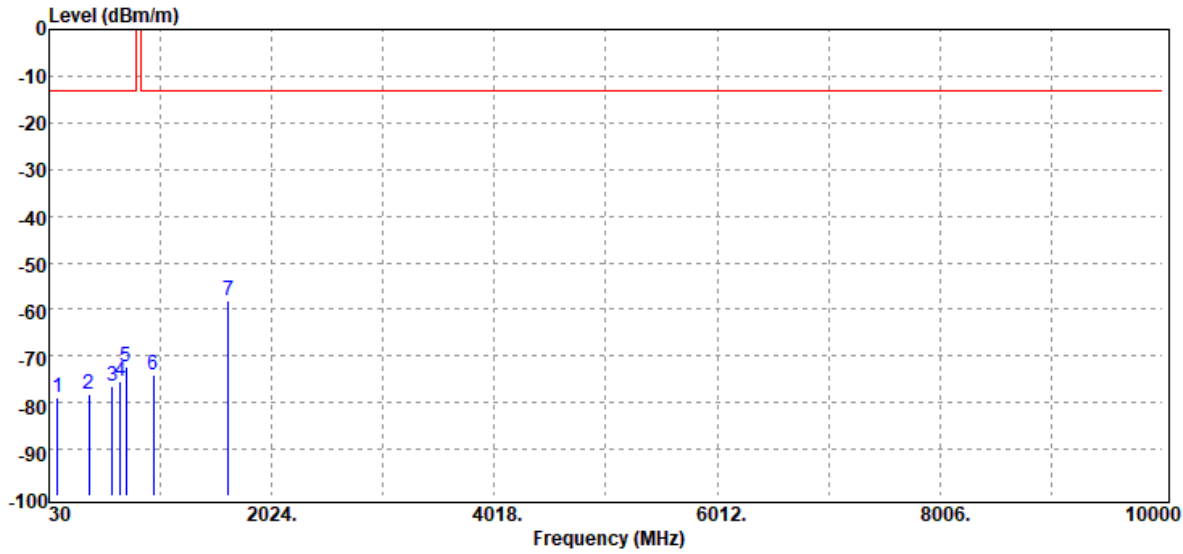
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Report Number :ER/2020/30083
Operation Mode :LTE B26 Part90
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :819 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-78.78	-71.14	-6.67	-0.97	-13.00	-65.78
388.90	-78.27	-74.96	-1.51	-1.80	-13.00	-65.27
597.45	-76.62	-72.41	-1.85	-2.36	-13.00	-63.62
668.26	-75.29	-71.04	-1.46	-2.79	-13.00	-62.29
720.64	-72.32	-68.46	-1.21	-2.65	-13.00	-59.32
961.20	-73.88	-69.03	-1.79	-3.06	-13.00	-60.88
1638.00	-58.06	-63.92	9.71	-3.85	-13.00	-45.06

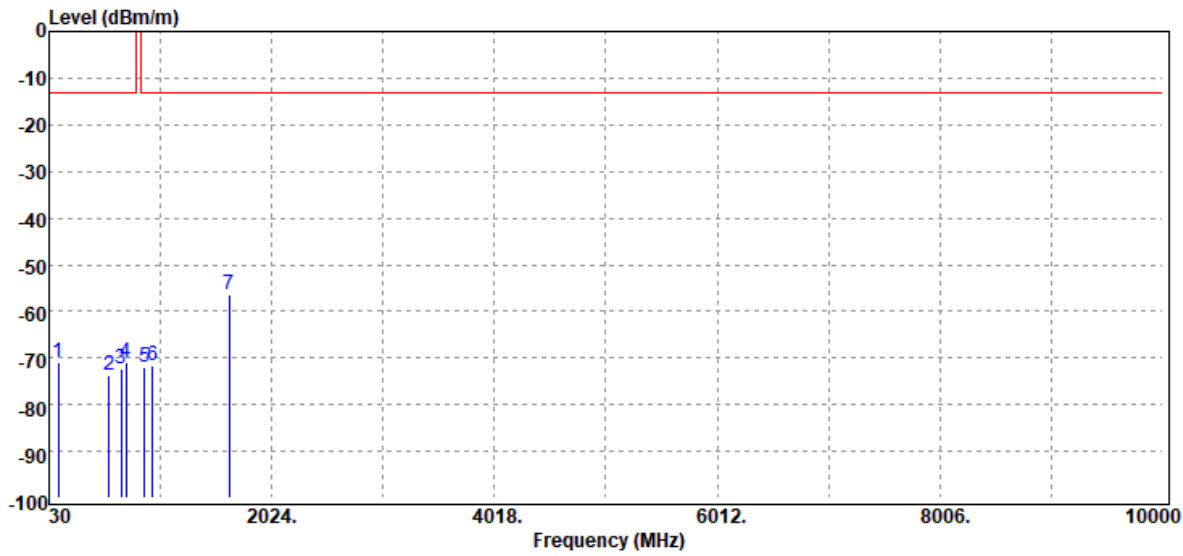
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Report Number :ER/2020/30083
 Operation Mode :LTE B26 Part90
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Frequency :821.5 MHz

Test Date :2020-06-15
 Temp./Humi. :26.5/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-70.95	-62.83	-7.11	-1.01	-13.00	-57.95
565.44	-73.82	-70.13	-1.40	-2.29	-13.00	-60.82
675.05	-72.41	-68.40	-1.44	-2.57	-13.00	-59.41
716.76	-70.78	-66.91	-1.28	-2.59	-13.00	-57.78
885.54	-71.88	-67.42	-1.48	-2.98	-13.00	-58.88
958.29	-71.58	-66.77	-1.80	-3.01	-13.00	-58.58
1643.00	-56.32	-62.21	9.74	-3.85	-13.00	-43.32

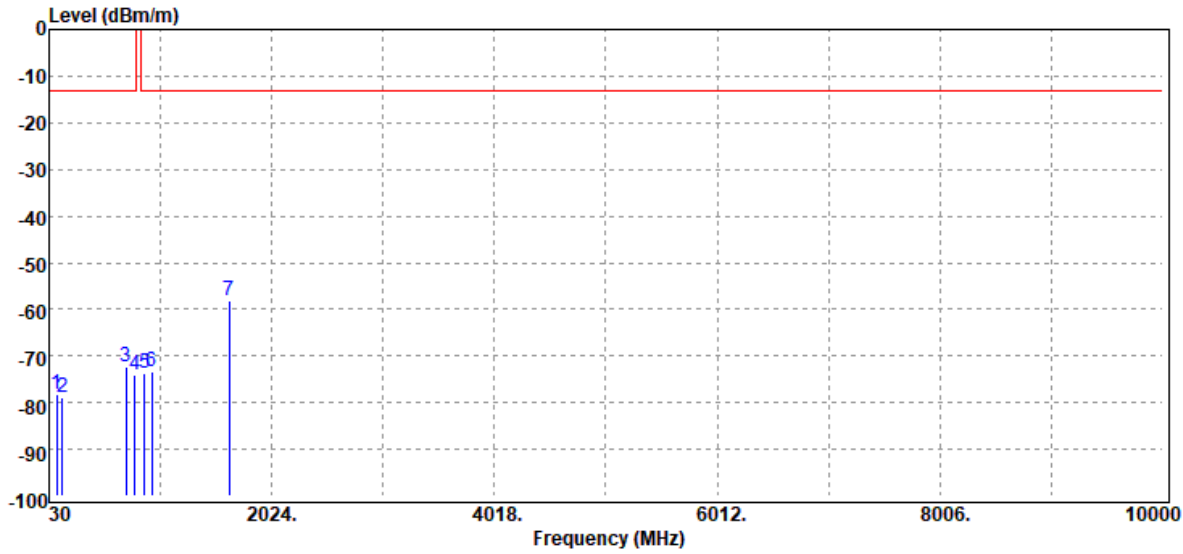
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Report Number :ER/2020/30083
Operation Mode :LTE B26 Part90
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :821.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo

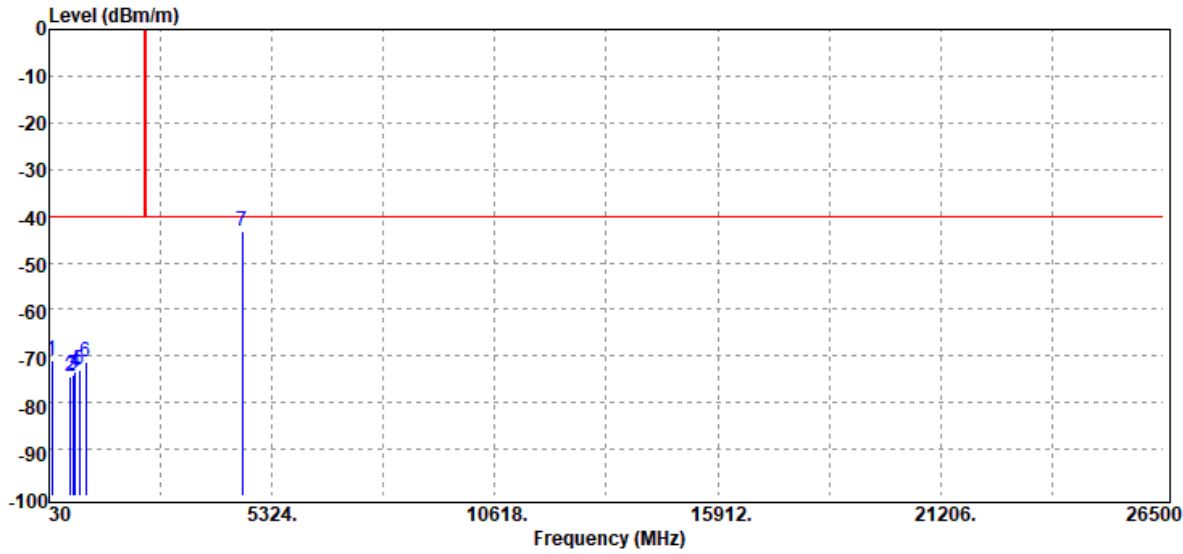


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-78.07	-70.92	-6.20	-0.95	-13.00	-65.07
146.40	-78.78	-69.88	-7.72	-1.18	-13.00	-65.78
720.64	-72.24	-68.38	-1.21	-2.65	-13.00	-59.24
801.15	-74.04	-69.64	-1.58	-2.82	-13.00	-61.04
885.54	-73.70	-69.24	-1.48	-2.98	-13.00	-60.70
949.56	-73.46	-68.82	-1.89	-2.75	-13.00	-60.46
1643.00	-58.15	-64.04	9.74	-3.85	-13.00	-45.15

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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2307.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
104.69	-70.82	-63.18	-6.67	-0.97	-40.00	-30.82
541.19	-74.40	-71.18	-1.26	-1.96	-40.00	-34.40
587.75	-74.12	-69.79	-1.75	-2.58	-40.00	-34.12
650.80	-73.41	-69.55	-1.36	-2.50	-40.00	-33.41
741.01	-72.94	-68.41	-1.75	-2.78	-40.00	-32.94
898.15	-71.43	-66.83	-1.62	-2.98	-40.00	-31.43
4615.00	-43.38	-49.39	12.67	-6.66	-40.00	-3.38

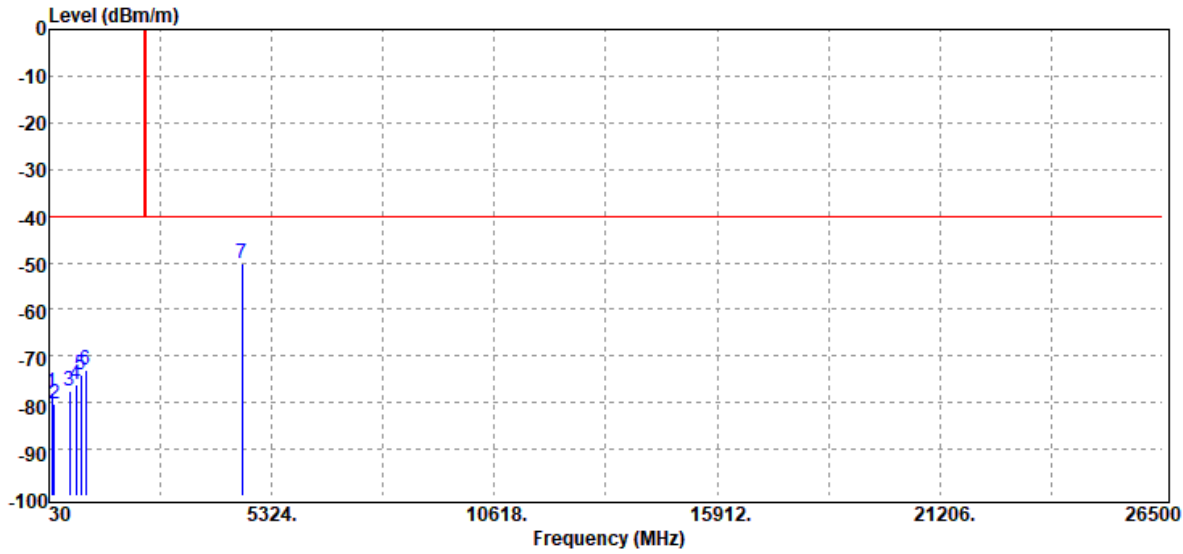
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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2307.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



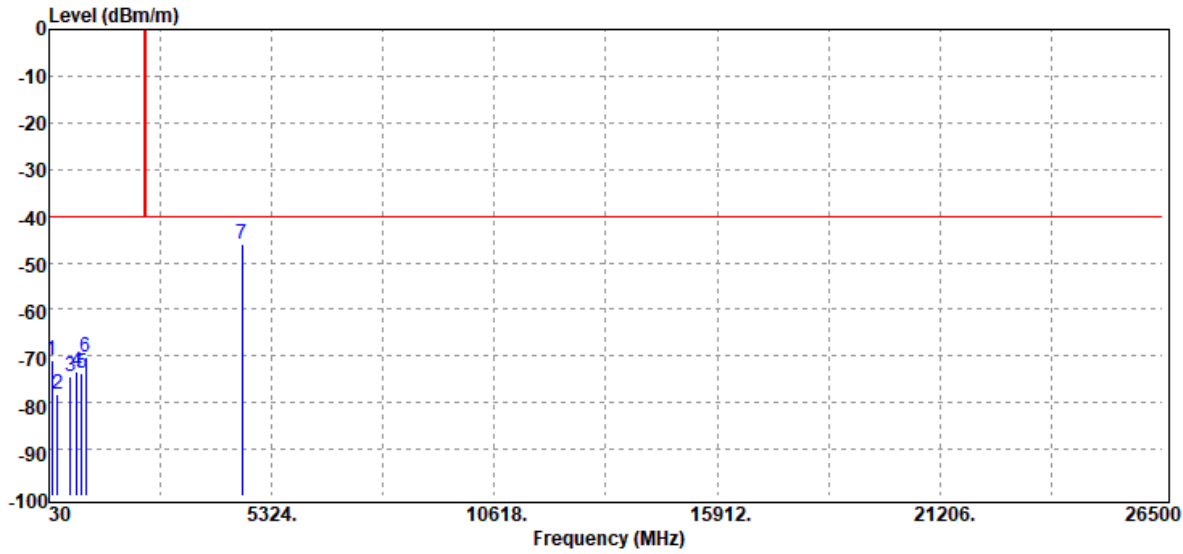
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.81	-70.66	-6.20	-0.95	-40.00	-37.81
151.25	-80.14	-71.49	-7.43	-1.22	-40.00	-40.14
526.64	-77.50	-74.23	-1.33	-1.94	-40.00	-37.50
677.96	-75.99	-72.09	-1.46	-2.44	-40.00	-35.99
793.39	-74.07	-69.74	-1.60	-2.73	-40.00	-34.07
901.06	-73.05	-68.41	-1.65	-2.99	-40.00	-33.05
4615.00	-50.13	-56.14	12.67	-6.66	-40.00	-10.13

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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2310 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


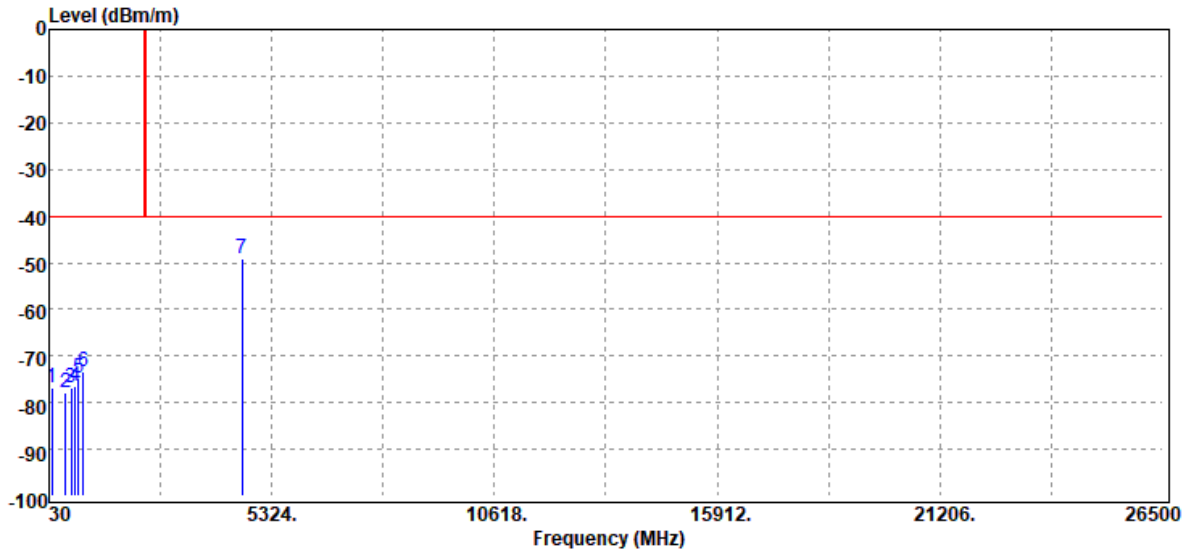
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-70.77	-63.13	-6.67	-0.97	-40.00	-30.77
240.49	-78.11	-74.91	-1.72	-1.48	-40.00	-38.11
539.25	-74.25	-71.04	-1.29	-1.92	-40.00	-34.25
687.66	-73.42	-69.88	-1.43	-2.11	-40.00	-33.42
804.06	-73.80	-69.39	-1.60	-2.81	-40.00	-33.80
893.30	-70.31	-65.81	-1.54	-2.96	-40.00	-30.31
4620.00	-46.15	-52.15	12.66	-6.66	-40.00	-6.15

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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2310 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


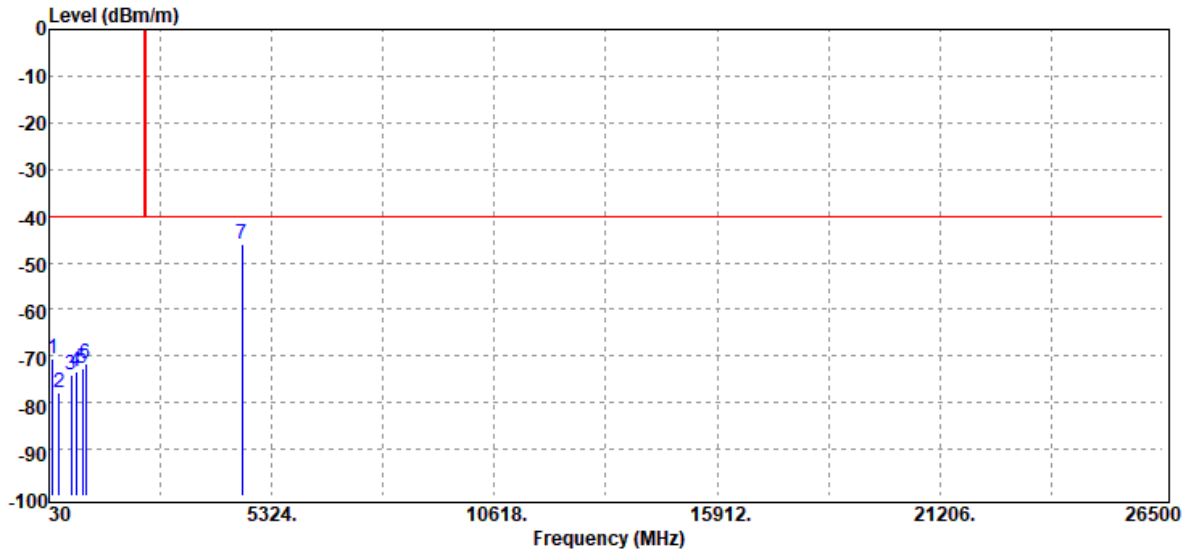
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
102.75	-76.78	-69.38	-6.44	-0.96	-40.00	-36.78
418.00	-77.71	-74.21	-1.46	-2.04	-40.00	-37.71
553.80	-76.97	-73.43	-1.31	-2.23	-40.00	-36.97
650.80	-76.41	-72.55	-1.36	-2.50	-40.00	-36.41
730.34	-74.88	-70.75	-1.47	-2.66	-40.00	-34.88
847.71	-73.36	-69.31	-1.56	-2.49	-40.00	-33.36
4620.00	-49.12	-55.12	12.66	-6.66	-40.00	-9.12

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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2312.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-70.74	-62.51	-7.21	-1.02	-40.00	-30.74
275.41	-77.93	-74.64	-1.75	-1.54	-40.00	-37.93
558.65	-73.89	-70.26	-1.36	-2.27	-40.00	-33.89
672.14	-73.36	-69.17	-1.48	-2.71	-40.00	-33.36
825.40	-72.83	-68.28	-1.60	-2.95	-40.00	-32.83
893.30	-71.51	-67.01	-1.54	-2.96	-40.00	-31.51
4625.00	-45.87	-51.86	12.65	-6.66	-40.00	-5.87

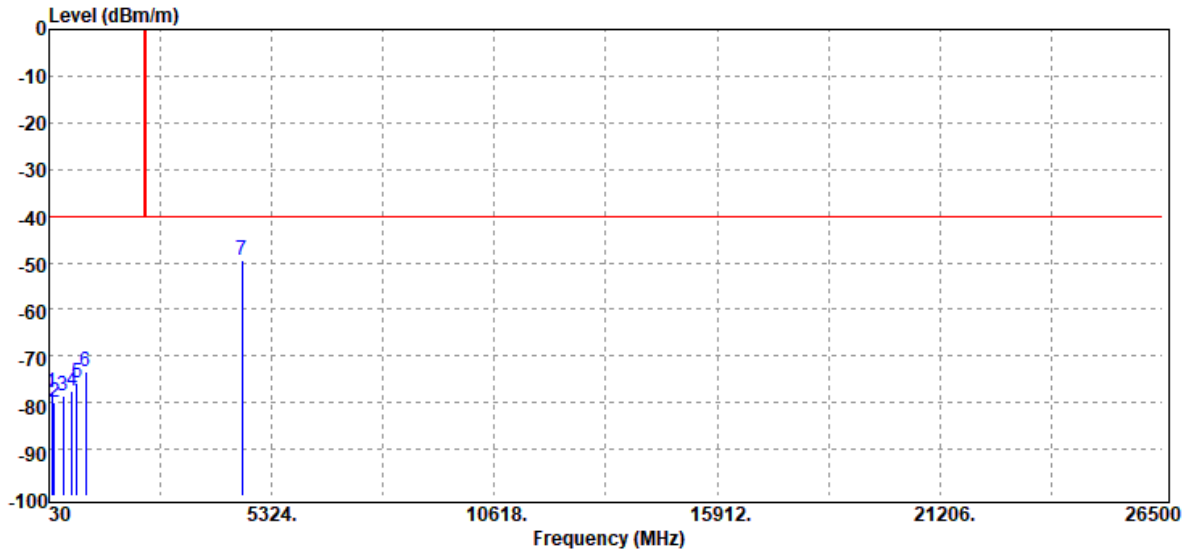
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Report Number :ER/2020/30083
Operation Mode :LTE B30
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2312.5 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
102.75	-78.00	-70.60	-6.44	-0.96	-40.00	-38.00
151.25	-79.95	-71.30	-7.43	-1.22	-40.00	-39.95
362.71	-78.71	-75.46	-1.54	-1.71	-40.00	-38.71
571.26	-77.58	-73.75	-1.52	-2.31	-40.00	-37.58
691.54	-75.93	-72.40	-1.46	-2.07	-40.00	-35.93
896.21	-73.50	-68.93	-1.60	-2.97	-40.00	-33.50
4625.00	-49.56	-55.55	12.65	-6.66	-40.00	-9.56

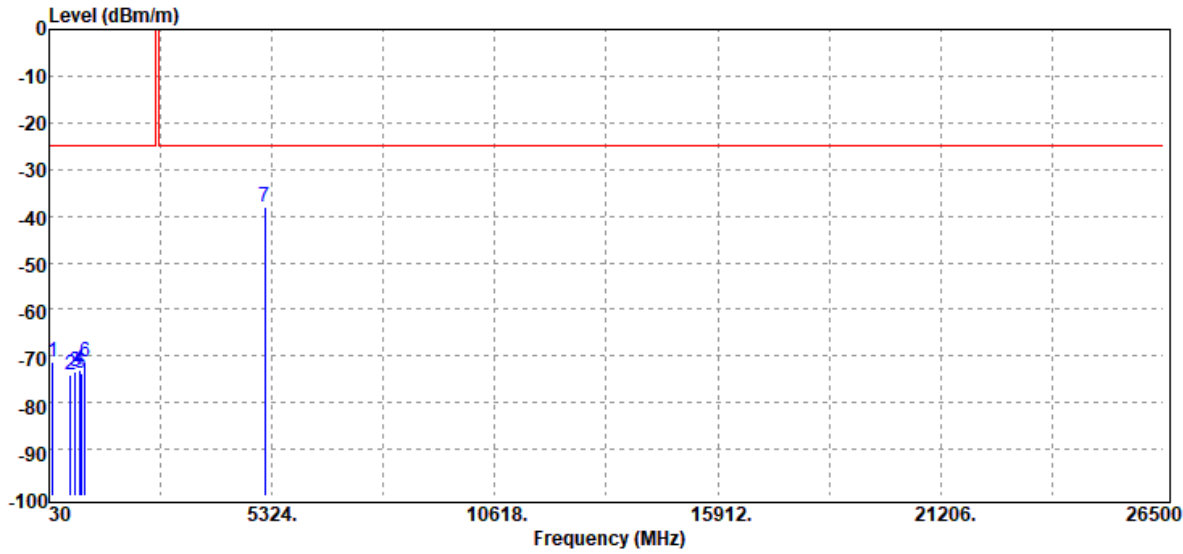
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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2580 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
110.51	-71.42	-63.30	-7.11	-1.01	-25.00	-46.42
547.01	-73.90	-70.57	-1.21	-2.12	-25.00	-48.90
653.71	-73.26	-69.38	-1.32	-2.56	-25.00	-48.26
741.01	-72.96	-68.43	-1.75	-2.78	-25.00	-47.96
793.39	-73.76	-69.43	-1.60	-2.73	-25.00	-48.76
888.45	-71.38	-66.97	-1.45	-2.96	-25.00	-46.38
5160.00	-38.03	-43.78	12.76	-7.01	-25.00	-13.03

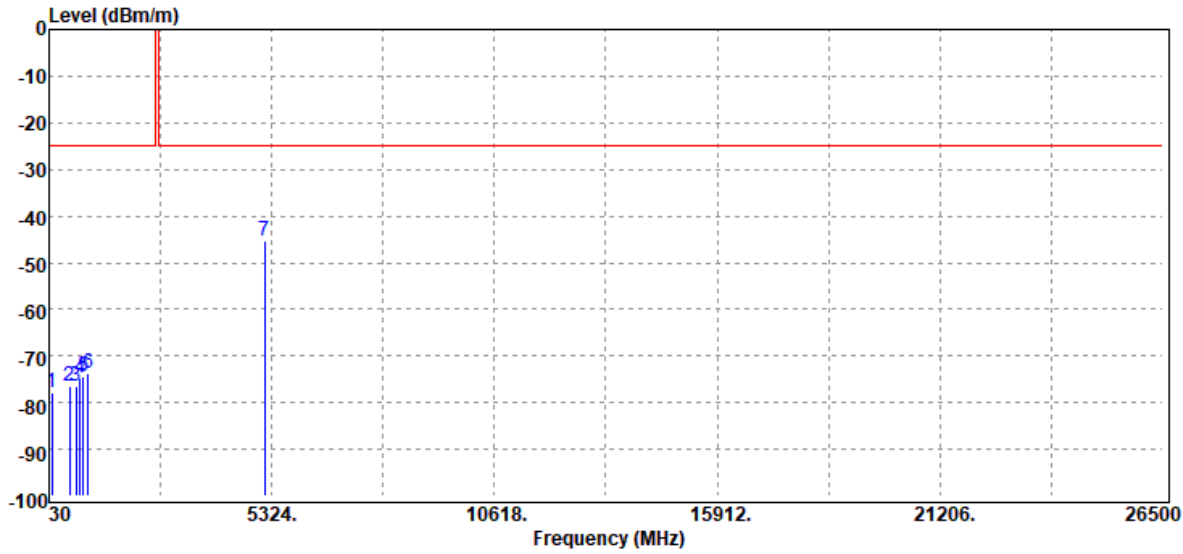
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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2580 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-77.70	-70.30	-6.44	-0.96	-25.00	-52.70
521.79	-76.57	-73.09	-1.38	-2.10	-25.00	-51.57
665.35	-76.42	-72.28	-1.38	-2.76	-25.00	-51.42
759.44	-74.86	-70.38	-1.81	-2.67	-25.00	-49.86
849.65	-74.27	-70.34	-1.54	-2.39	-25.00	-49.27
967.99	-73.64	-68.72	-1.81	-3.11	-25.00	-48.64
5160.00	-45.21	-50.96	12.76	-7.01	-25.00	-20.21

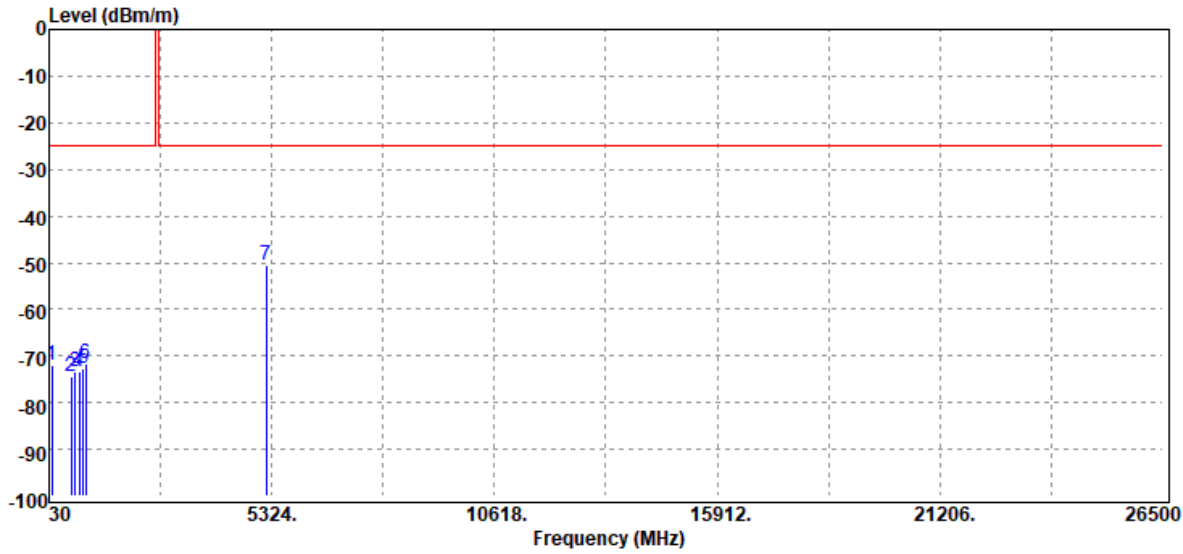
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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2595 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-72.02	-64.38	-6.67	-0.97	-25.00	-47.02
551.86	-74.25	-70.77	-1.26	-2.22	-25.00	-49.25
652.74	-73.22	-69.35	-1.33	-2.54	-25.00	-48.22
752.65	-73.26	-68.66	-1.75	-2.85	-25.00	-48.26
841.89	-72.50	-68.09	-1.62	-2.79	-25.00	-47.50
901.06	-71.61	-66.97	-1.65	-2.99	-25.00	-46.61
5190.00	-50.42	-56.23	12.94	-7.13	-25.00	-25.42

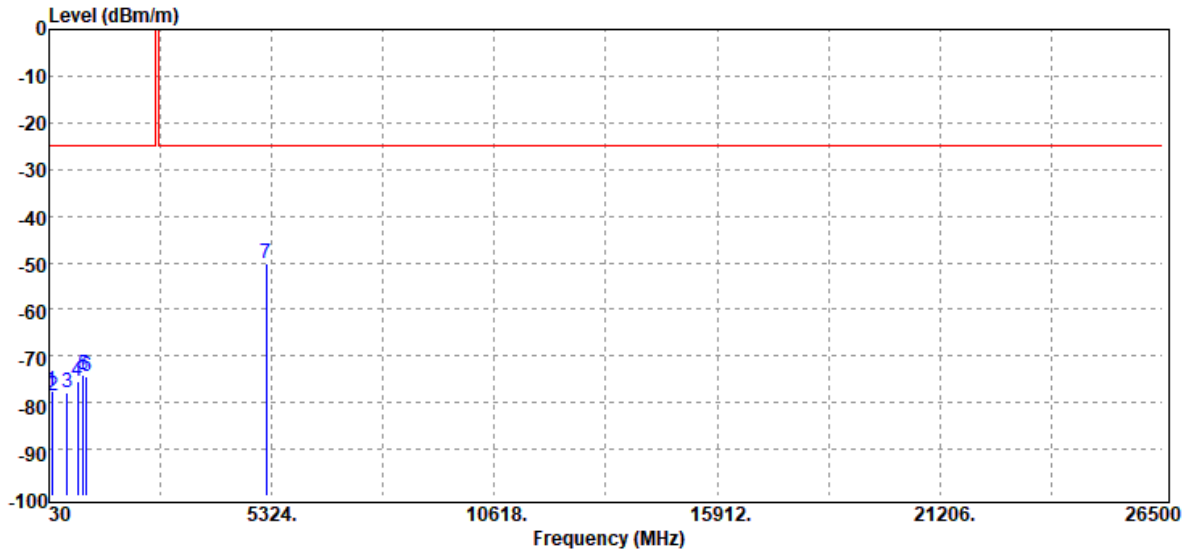
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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2595 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



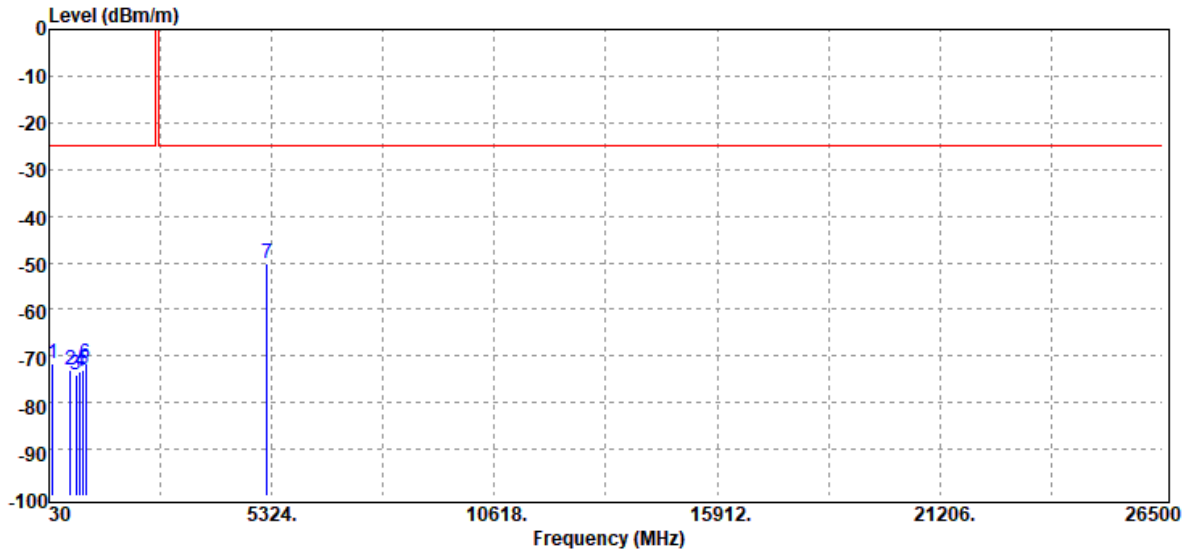
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-77.59	-70.44	-6.20	-0.95	-25.00	-52.59
125.06	-78.70	-70.19	-7.49	-1.02	-25.00	-53.70
458.74	-77.88	-74.01	-2.00	-1.87	-25.00	-52.88
718.70	-75.35	-71.50	-1.22	-2.63	-25.00	-50.35
838.01	-74.17	-69.56	-1.70	-2.91	-25.00	-49.17
930.16	-74.47	-69.79	-1.96	-2.72	-25.00	-49.47
5190.00	-50.11	-55.92	12.94	-7.13	-25.00	-25.11

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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2610 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo


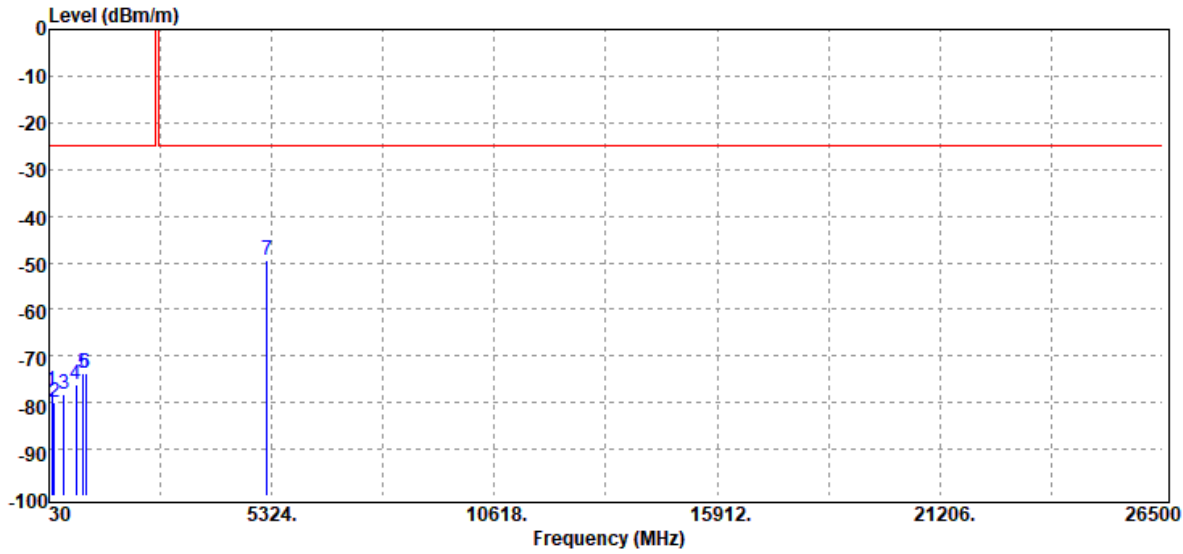
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-71.55	-63.43	-7.11	-1.01	-25.00	-46.55
537.31	-72.94	-69.72	-1.32	-1.90	-25.00	-47.94
667.29	-73.96	-69.75	-1.43	-2.78	-25.00	-48.96
759.44	-73.37	-68.89	-1.81	-2.67	-25.00	-48.37
835.10	-73.00	-68.26	-1.79	-2.95	-25.00	-48.00
903.00	-71.80	-67.14	-1.67	-2.99	-25.00	-46.80
5220.00	-50.23	-56.18	13.12	-7.17	-25.00	-25.23

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Report Number :ER/2020/30083
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2610 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
102.75	-77.53	-70.13	-6.44	-0.96	-25.00	-52.53
148.34	-79.88	-71.04	-7.64	-1.20	-25.00	-54.88
391.81	-78.04	-74.69	-1.54	-1.81	-25.00	-53.04
662.44	-76.07	-72.00	-1.35	-2.72	-25.00	-51.07
842.86	-73.78	-69.43	-1.61	-2.74	-25.00	-48.78
896.21	-73.84	-69.27	-1.60	-2.97	-25.00	-48.84
5220.00	-49.63	-55.58	13.12	-7.17	-25.00	-24.63

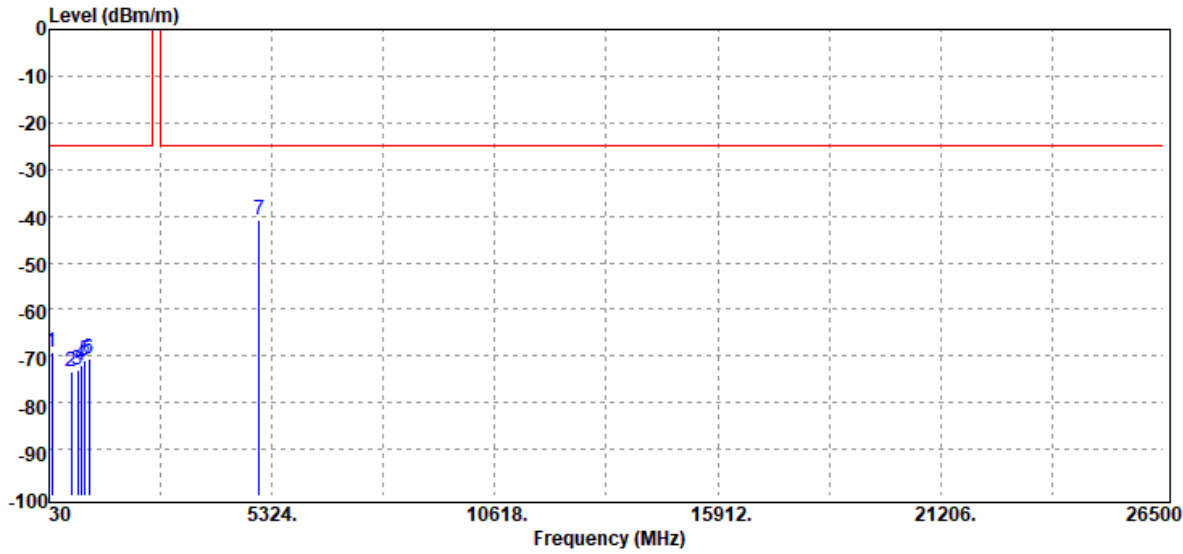
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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2506 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



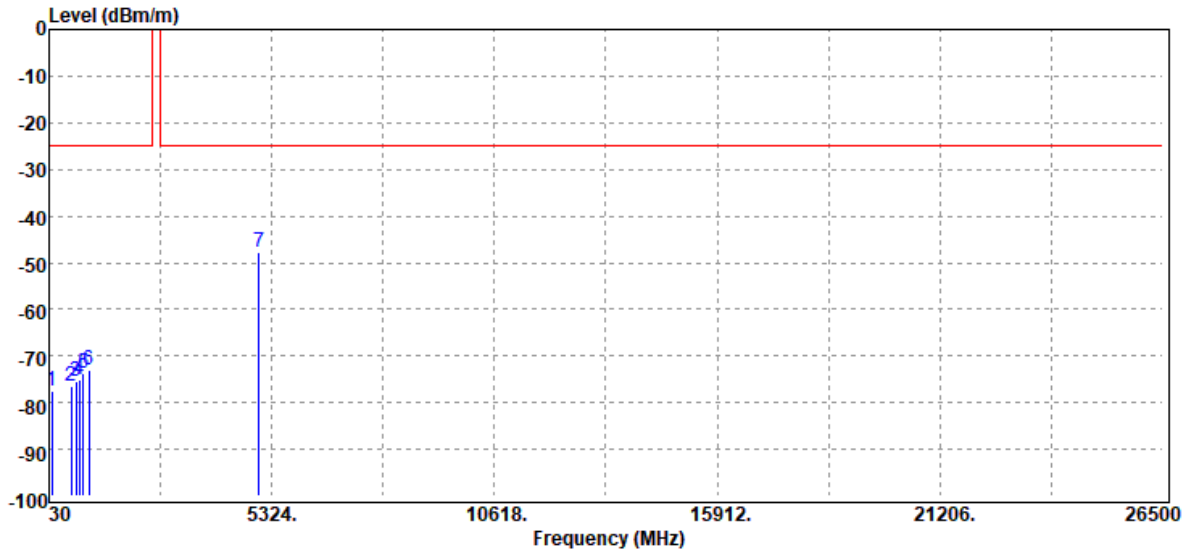
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
100.81	-69.17	-62.02	-6.20	-0.95	-25.00	-44.17
550.89	-73.47	-70.02	-1.24	-2.21	-25.00	-48.47
715.79	-72.94	-69.04	-1.32	-2.58	-25.00	-47.94
786.60	-71.84	-67.61	-1.68	-2.55	-25.00	-46.84
888.45	-70.94	-66.53	-1.45	-2.96	-25.00	-45.94
970.90	-70.51	-65.58	-1.80	-3.13	-25.00	-45.51
5012.00	-40.71	-46.53	12.68	-6.86	-25.00	-15.71

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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2506 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-77.39	-70.43	-6.01	-0.95	-25.00	-52.39
550.89	-76.34	-72.89	-1.24	-2.21	-25.00	-51.34
676.99	-75.48	-71.55	-1.45	-2.48	-25.00	-50.48
754.59	-74.95	-70.39	-1.76	-2.80	-25.00	-49.95
838.01	-73.76	-69.15	-1.70	-2.91	-25.00	-48.76
970.90	-73.10	-68.17	-1.80	-3.13	-25.00	-48.10
5012.00	-47.74	-53.56	12.68	-6.86	-25.00	-22.74

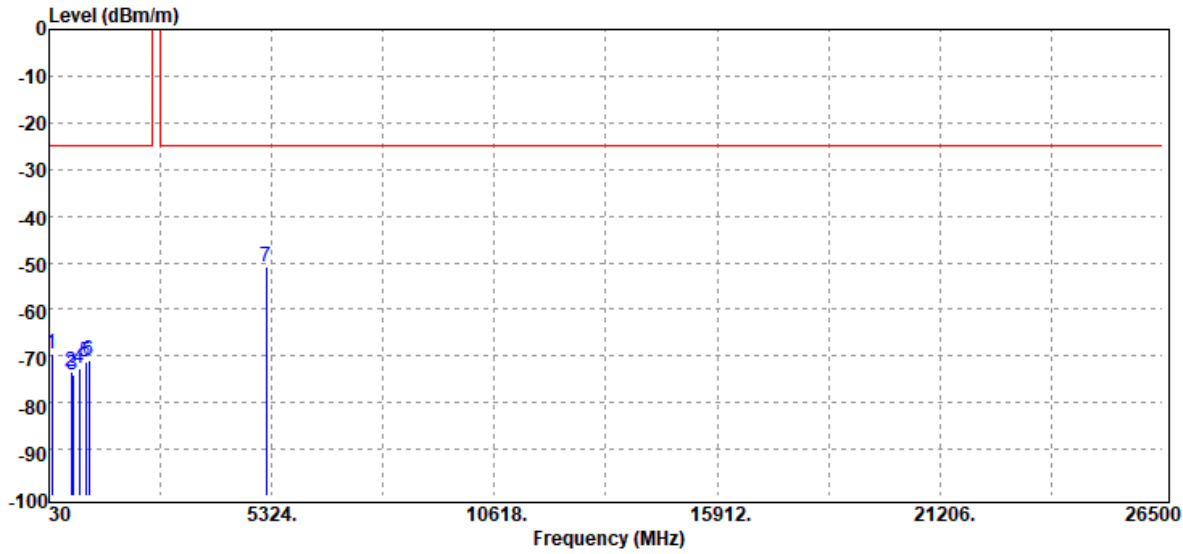
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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2593 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



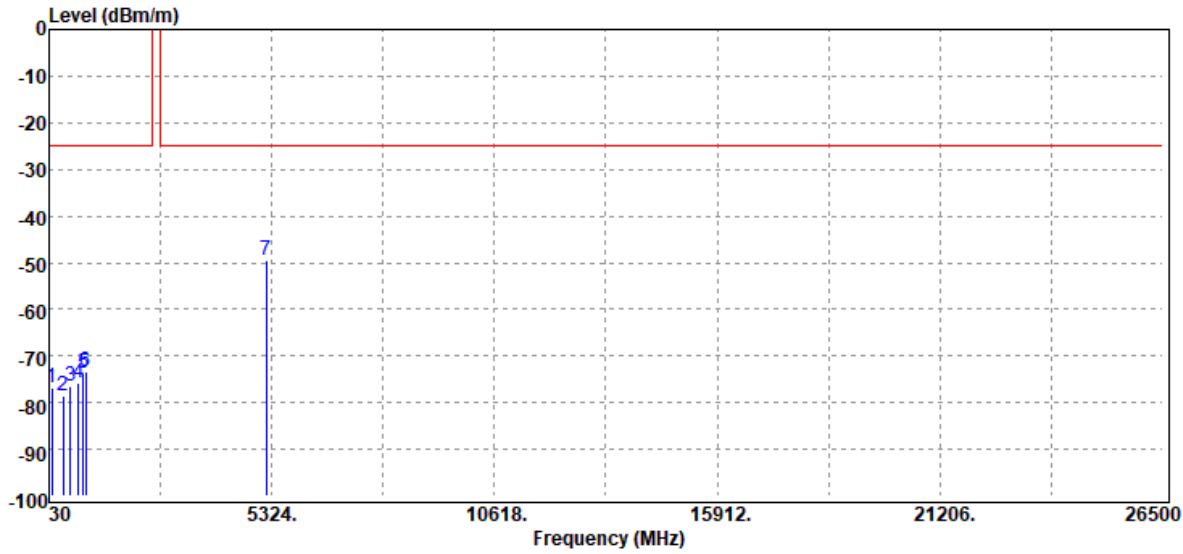
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-69.48	-62.33	-6.20	-0.95	-25.00	-44.48
550.89	-73.24	-69.79	-1.24	-2.21	-25.00	-48.24
604.24	-73.90	-69.87	-1.89	-2.14	-25.00	-48.90
752.65	-72.78	-68.18	-1.75	-2.85	-25.00	-47.78
903.00	-71.26	-66.60	-1.67	-2.99	-25.00	-46.26
985.45	-70.84	-65.97	-1.75	-3.12	-25.00	-45.84
5186.00	-50.84	-56.65	12.92	-7.11	-25.00	-25.84

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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2593 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-76.80	-69.65	-6.20	-0.95	-25.00	-51.80
357.86	-78.51	-75.27	-1.51	-1.73	-25.00	-53.51
546.04	-76.44	-73.15	-1.20	-2.09	-25.00	-51.44
721.61	-75.78	-71.87	-1.26	-2.65	-25.00	-50.78
839.95	-73.84	-69.32	-1.64	-2.88	-25.00	-48.84
904.94	-73.22	-68.53	-1.69	-3.00	-25.00	-48.22
5186.00	-49.63	-55.44	12.92	-7.11	-25.00	-24.63

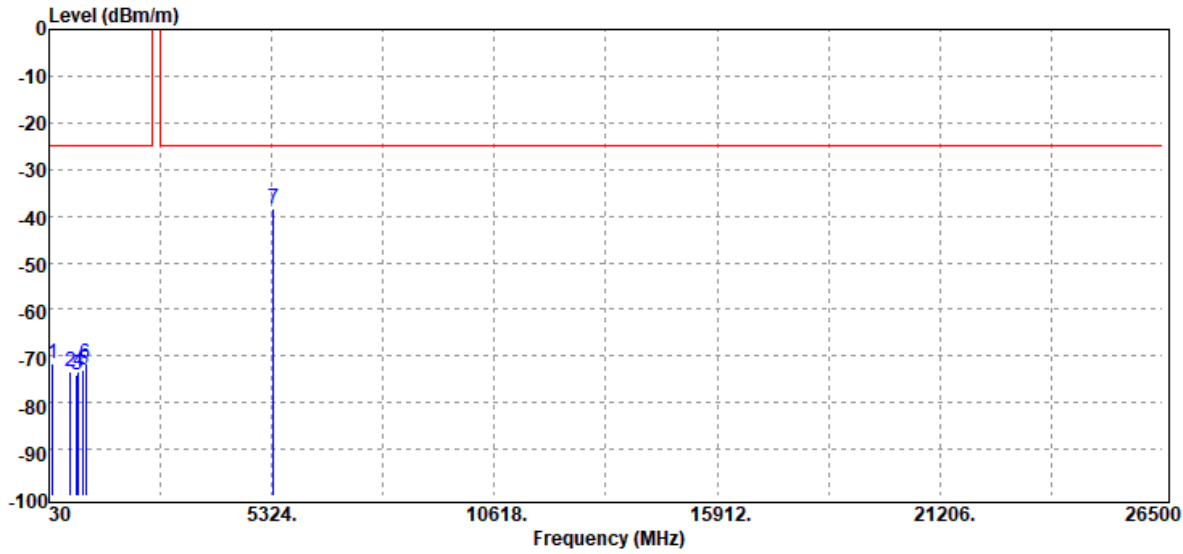
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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2680 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :VERTICAL
Engineer :Neo



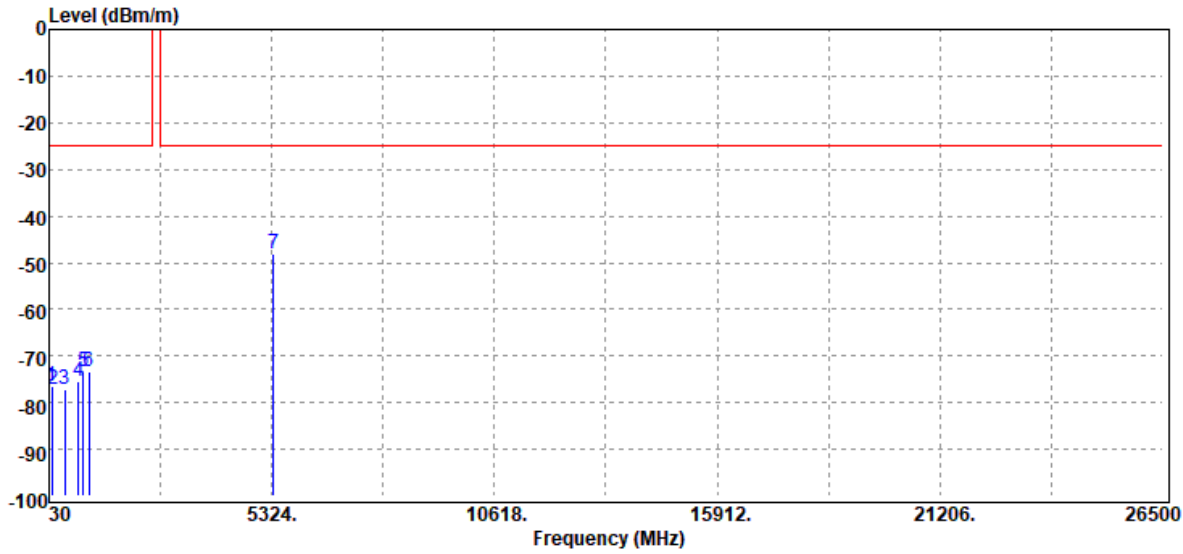
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-71.78	-63.55	-7.21	-1.02	-25.00	-46.78
529.55	-73.51	-70.33	-1.34	-1.84	-25.00	-48.51
691.54	-74.01	-70.48	-1.46	-2.07	-25.00	-49.01
731.31	-73.32	-69.15	-1.50	-2.67	-25.00	-48.32
842.86	-73.14	-68.79	-1.61	-2.74	-25.00	-48.14
907.85	-71.51	-66.78	-1.72	-3.01	-25.00	-46.51
5360.00	-38.43	-44.87	13.48	-7.04	-25.00	-13.43

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Report Number :ER/2020/30083
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2680 MHz

Test Date :2020-06-15
Temp./Humi. :26.5/69
Antenna Pol. :HORIZONTAL
Engineer :Neo


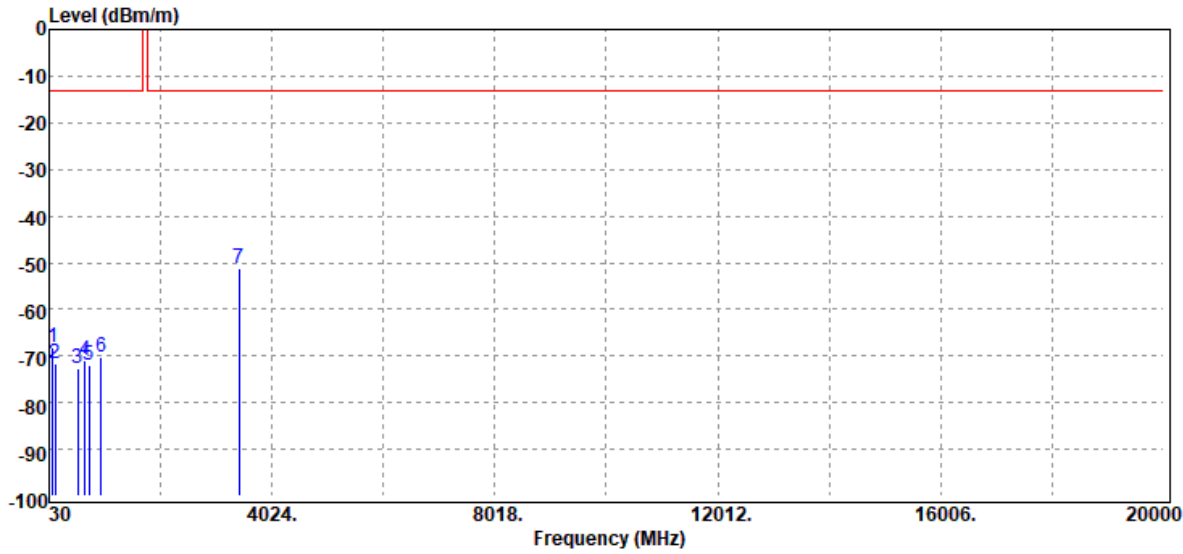
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
102.75	-76.51	-69.11	-6.44	-0.96	-25.00	-51.51
124.09	-77.22	-68.73	-7.46	-1.03	-25.00	-52.22
410.24	-77.28	-74.02	-1.38	-1.88	-25.00	-52.28
726.46	-75.39	-71.31	-1.43	-2.65	-25.00	-50.39
852.56	-73.52	-69.61	-1.56	-2.35	-25.00	-48.52
968.96	-73.52	-68.60	-1.80	-3.12	-25.00	-48.52
5360.00	-48.02	-54.46	13.48	-7.04	-25.00	-23.02

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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1720 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-68.33	-61.37	-6.01	-0.95	-13.00	-55.33
144.46	-71.53	-62.59	-7.79	-1.15	-13.00	-58.53
548.95	-72.77	-69.38	-1.22	-2.17	-13.00	-59.77
676.99	-70.83	-66.90	-1.45	-2.48	-13.00	-57.83
749.74	-72.05	-67.41	-1.73	-2.91	-13.00	-59.05
967.99	-70.32	-65.40	-1.81	-3.11	-13.00	-57.32
3440.00	-51.10	-58.48	12.70	-5.32	-13.00	-38.10

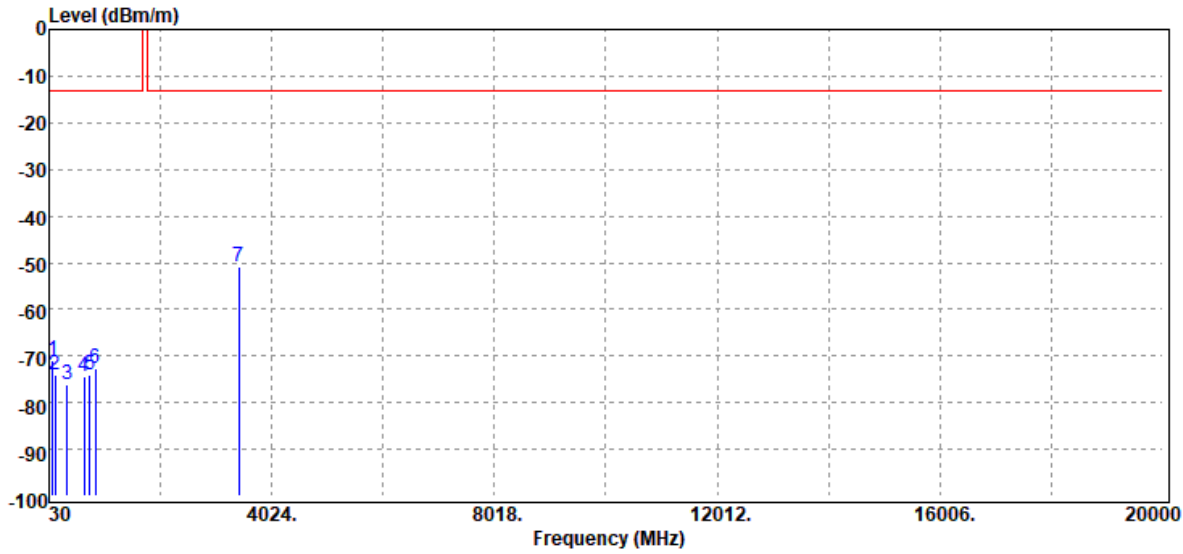
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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1720 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



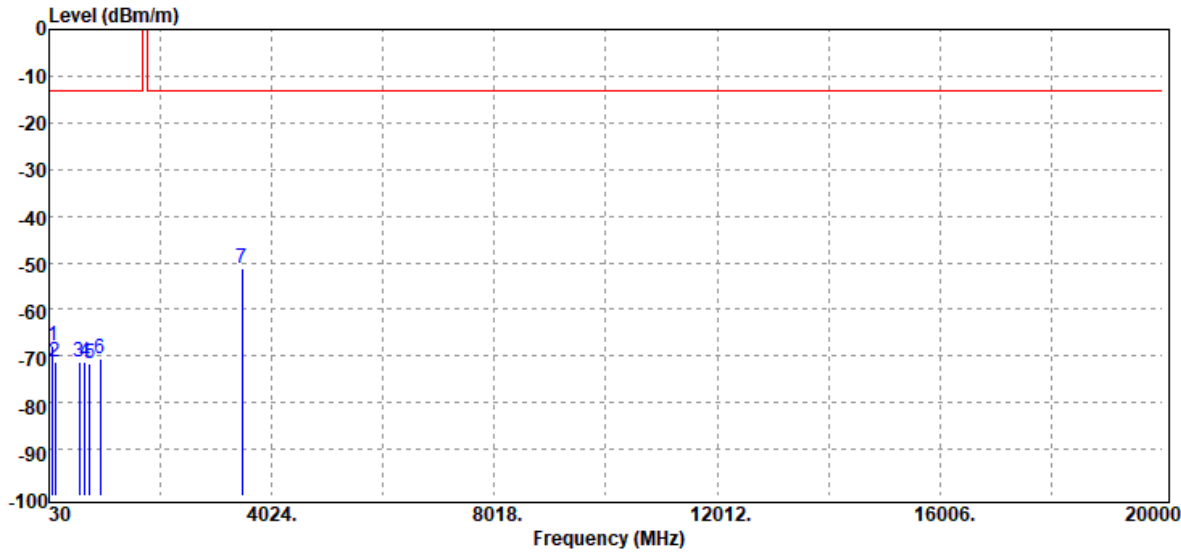
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
94.99	-71.07	-64.57	-5.57	-0.93	-13.00	-58.07
144.46	-73.96	-65.02	-7.79	-1.15	-13.00	-60.96
353.01	-75.96	-72.64	-1.53	-1.79	-13.00	-62.96
662.44	-74.35	-70.28	-1.35	-2.72	-13.00	-61.35
759.44	-73.97	-69.49	-1.81	-2.67	-13.00	-60.97
857.41	-72.52	-68.65	-1.56	-2.31	-13.00	-59.52
3440.00	-51.01	-58.39	12.70	-5.32	-13.00	-38.01

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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1745 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-67.66	-60.51	-6.20	-0.95	-13.00	-54.66
136.70	-71.40	-62.44	-7.91	-1.05	-13.00	-58.40
571.26	-71.25	-67.42	-1.52	-2.31	-13.00	-58.25
679.90	-71.34	-67.52	-1.48	-2.34	-13.00	-58.34
762.35	-71.69	-67.37	-1.78	-2.54	-13.00	-58.69
946.65	-70.73	-66.04	-1.97	-2.72	-13.00	-57.73
3490.00	-51.07	-57.80	12.54	-5.81	-13.00	-38.07

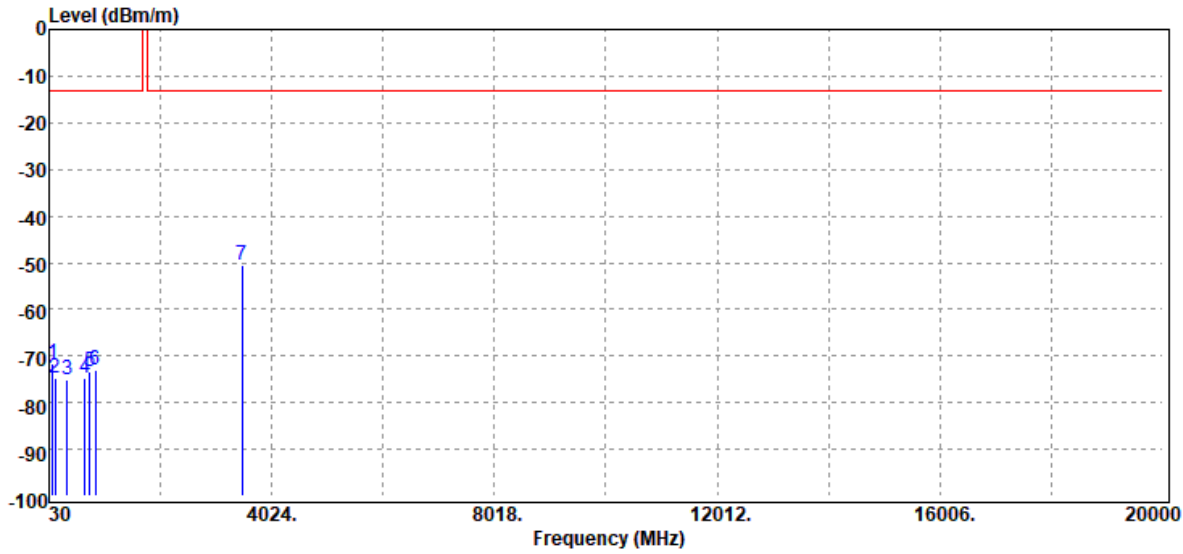
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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1745 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



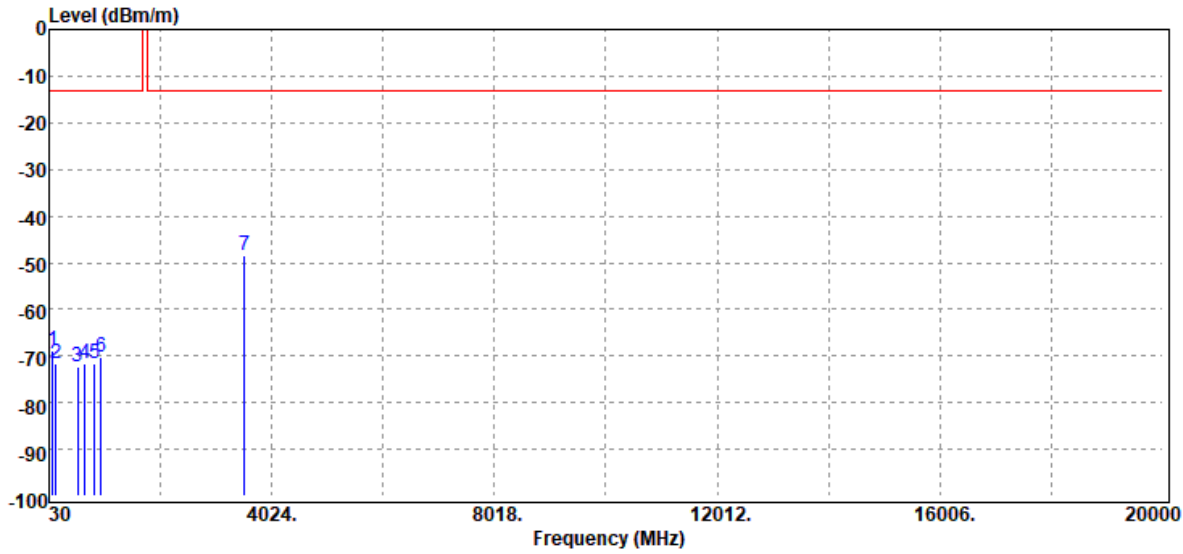
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
91.11	-71.64	-65.09	-5.64	-0.91	-13.00	-58.64
144.46	-74.90	-65.96	-7.79	-1.15	-13.00	-61.90
353.01	-75.07	-71.75	-1.53	-1.79	-13.00	-62.07
675.05	-74.70	-70.69	-1.44	-2.57	-13.00	-61.70
760.41	-73.40	-68.95	-1.81	-2.64	-13.00	-60.40
856.44	-72.95	-69.07	-1.57	-2.31	-13.00	-59.95
3490.00	-50.59	-57.32	12.54	-5.81	-13.00	-37.59

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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1770 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-68.71	-61.56	-6.20	-0.95	-13.00	-55.71
146.40	-71.55	-62.65	-7.72	-1.18	-13.00	-58.55
537.31	-72.48	-69.26	-1.32	-1.90	-13.00	-59.48
676.99	-71.65	-67.72	-1.45	-2.48	-13.00	-58.65
851.59	-71.57	-67.66	-1.55	-2.36	-13.00	-58.57
959.26	-70.15	-65.33	-1.79	-3.03	-13.00	-57.15
3540.00	-48.37	-54.79	12.34	-5.92	-13.00	-35.37

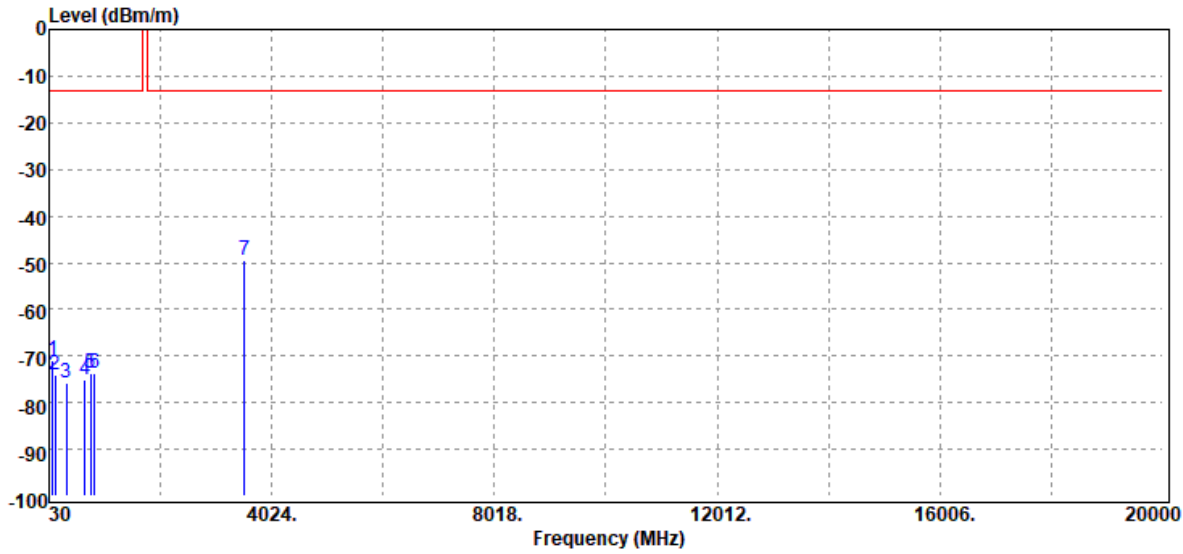
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Report Number :ER/2020/30083
Operation Mode :LTE B66
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1770 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



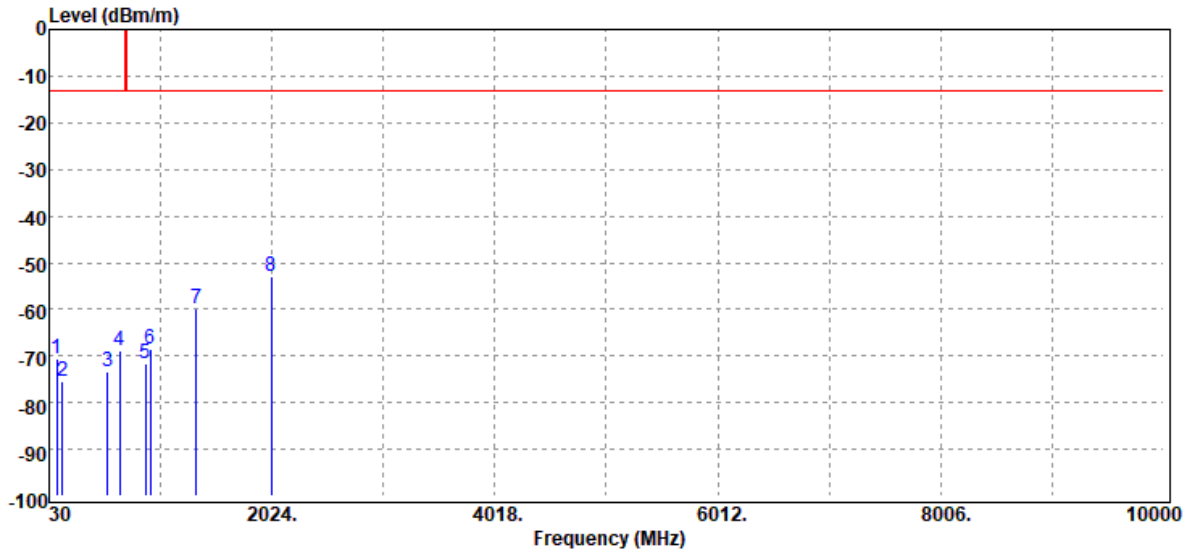
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-70.92	-64.19	-5.79	-0.94	-13.00	-57.92
136.70	-74.16	-65.20	-7.91	-1.05	-13.00	-61.16
347.19	-75.69	-72.29	-1.56	-1.84	-13.00	-62.69
667.29	-74.93	-70.72	-1.43	-2.78	-13.00	-61.93
772.05	-73.58	-69.46	-1.93	-2.19	-13.00	-60.58
852.56	-73.58	-69.67	-1.56	-2.35	-13.00	-60.58
3540.00	-49.63	-56.05	12.34	-5.92	-13.00	-36.63

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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :673 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-70.54	-63.58	-6.01	-0.95	-13.00	-57.54
145.43	-75.45	-66.57	-7.72	-1.16	-13.00	-62.45
550.89	-73.30	-69.85	-1.24	-2.21	-13.00	-60.30
658.56	-68.98	-64.99	-1.33	-2.66	-13.00	-55.98
890.39	-71.77	-67.37	-1.45	-2.95	-13.00	-58.77
938.89	-68.68	-64.07	-1.97	-2.64	-13.00	-55.68
1346.00	-59.78	-63.38	7.09	-3.49	-13.00	-46.78
2019.00	-52.96	-59.00	10.32	-4.28	-13.00	-39.96

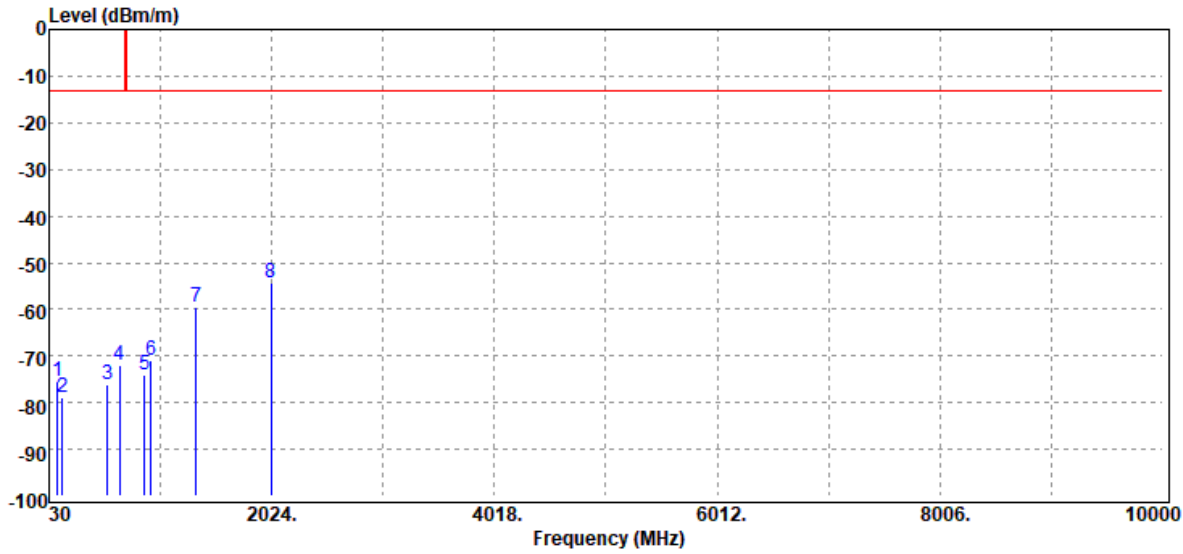
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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :673 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-75.29	-67.89	-6.44	-0.96	-13.00	-62.29
148.34	-78.83	-69.99	-7.64	-1.20	-13.00	-65.83
550.89	-76.09	-72.64	-1.24	-2.21	-13.00	-63.09
659.53	-72.10	-68.09	-1.33	-2.68	-13.00	-59.10
886.51	-74.07	-69.63	-1.47	-2.97	-13.00	-61.07
939.86	-70.90	-66.30	-1.97	-2.63	-13.00	-57.90
1346.00	-59.43	-63.03	7.09	-3.49	-13.00	-46.43
2019.00	-54.17	-60.21	10.32	-4.28	-13.00	-41.17

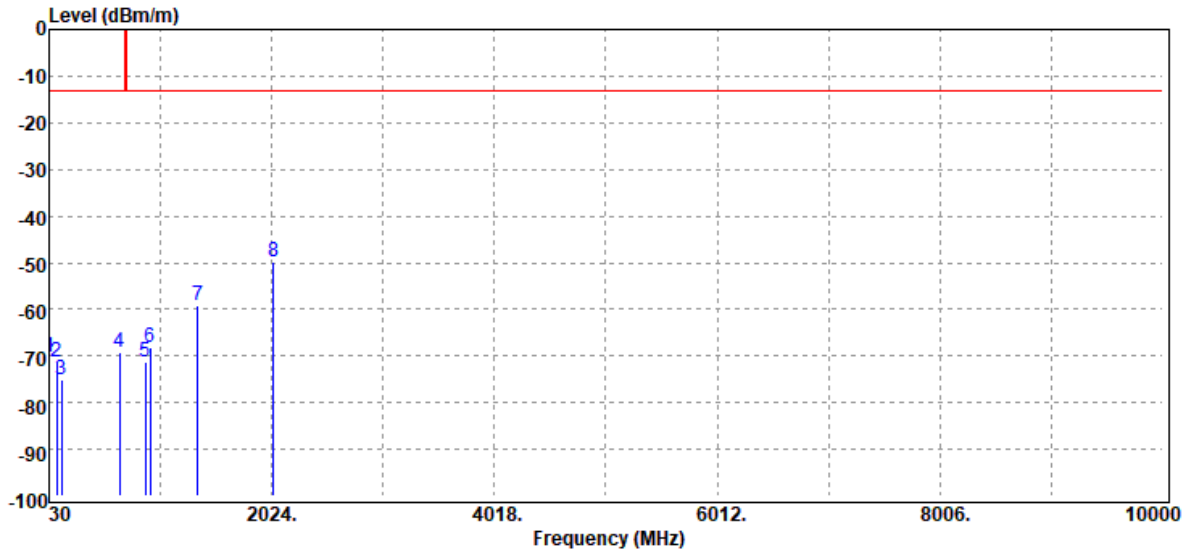
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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :680.5 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo



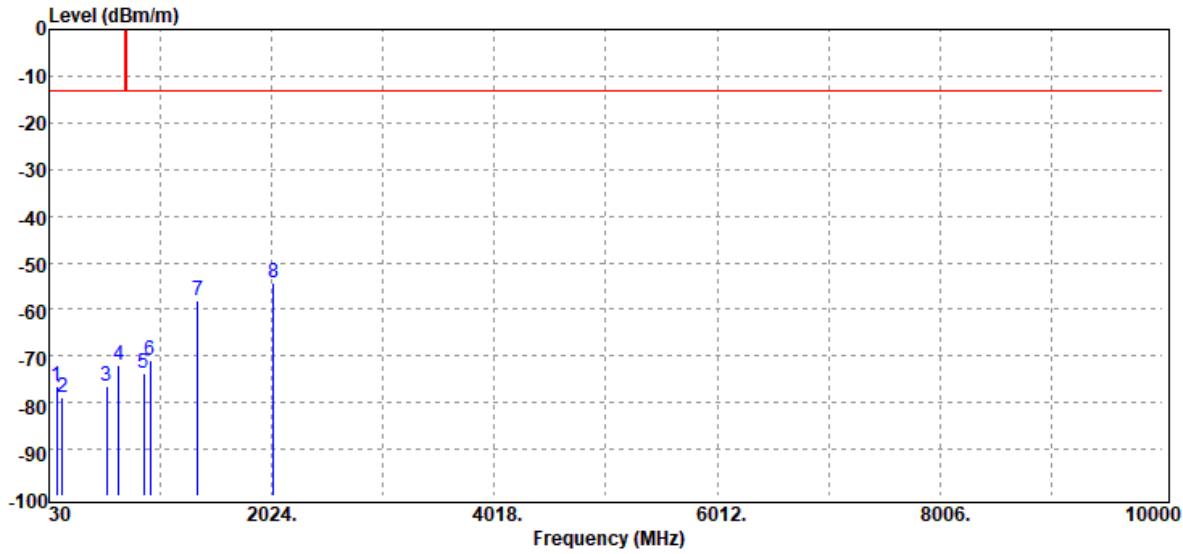
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
36.79	-70.28	-50.46	-19.23	-0.59	-13.00	-57.28
99.84	-71.36	-64.40	-6.01	-0.95	-13.00	-58.36
144.46	-75.06	-66.12	-7.79	-1.15	-13.00	-62.06
659.53	-69.29	-65.28	-1.33	-2.68	-13.00	-56.29
891.36	-71.30	-66.86	-1.48	-2.96	-13.00	-58.30
938.89	-68.27	-63.66	-1.97	-2.64	-13.00	-55.27
1361.00	-59.27	-62.99	7.23	-3.51	-13.00	-46.27
2041.50	-49.98	-55.89	10.23	-4.32	-13.00	-36.98

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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :680.5 MHz

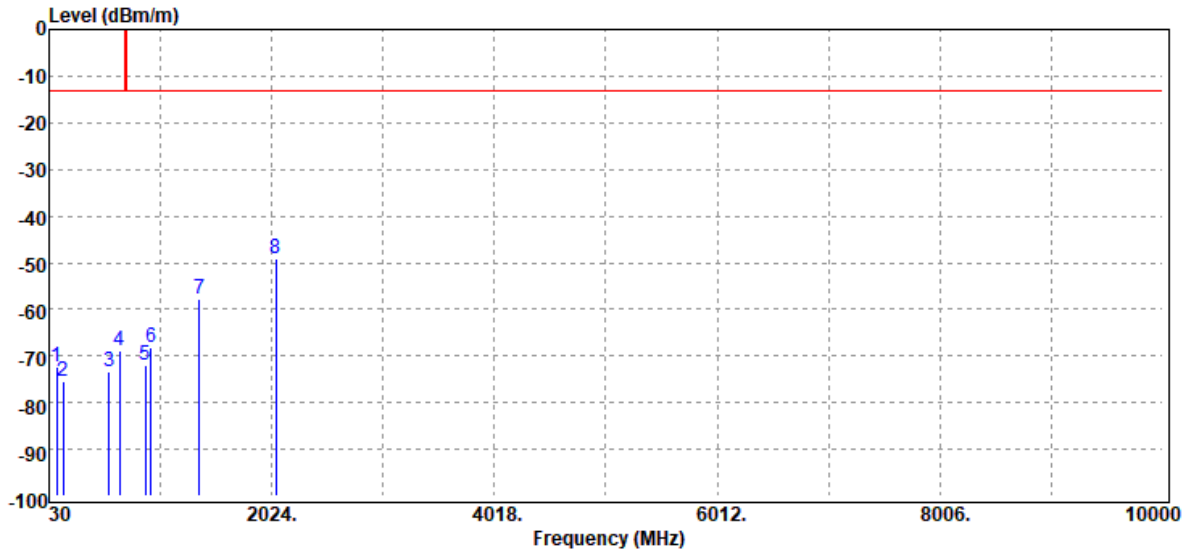
Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-76.54	-69.81	-5.79	-0.94	-13.00	-63.54
146.40	-78.99	-70.09	-7.72	-1.18	-13.00	-65.99
546.04	-76.42	-73.13	-1.20	-2.09	-13.00	-63.42
657.59	-71.81	-67.85	-1.32	-2.64	-13.00	-58.81
876.81	-73.54	-69.08	-1.53	-2.93	-13.00	-60.54
938.89	-70.94	-66.33	-1.97	-2.64	-13.00	-57.94
1361.00	-58.26	-61.98	7.23	-3.51	-13.00	-45.26
2041.50	-54.35	-60.26	10.23	-4.32	-13.00	-41.35

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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :688 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-72.32	-65.36	-6.01	-0.95	-13.00	-59.32
153.19	-75.59	-67.05	-7.32	-1.22	-13.00	-62.59
565.44	-73.41	-69.72	-1.40	-2.29	-13.00	-60.41
659.53	-68.96	-64.95	-1.33	-2.68	-13.00	-55.96
893.30	-71.94	-67.44	-1.54	-2.96	-13.00	-58.94
939.86	-68.04	-63.44	-1.97	-2.63	-13.00	-55.04
1376.00	-57.85	-61.73	7.41	-3.53	-13.00	-44.85
2064.00	-49.01	-54.80	10.14	-4.35	-13.00	-36.01

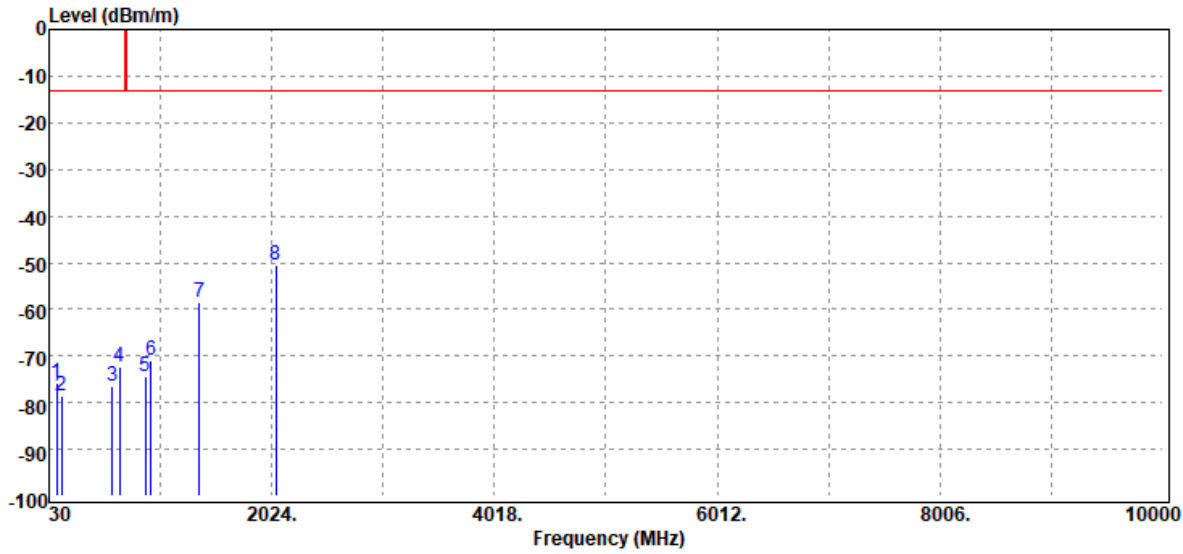
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Report Number :ER/2020/30083
Operation Mode :LTE B71
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :688 MHz

Test Date :2020-06-18
Temp./Humi. :26.1/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-75.77	-68.81	-6.01	-0.95	-13.00	-62.77
144.46	-78.47	-69.53	-7.79	-1.15	-13.00	-65.47
594.54	-76.30	-72.01	-1.83	-2.46	-13.00	-63.30
662.44	-72.34	-68.27	-1.35	-2.72	-13.00	-59.34
890.39	-74.27	-69.87	-1.45	-2.95	-13.00	-61.27
939.86	-70.93	-66.33	-1.97	-2.63	-13.00	-57.93
1376.00	-58.49	-62.37	7.41	-3.53	-13.00	-45.49
2064.00	-50.55	-56.34	10.14	-4.35	-13.00	-37.55

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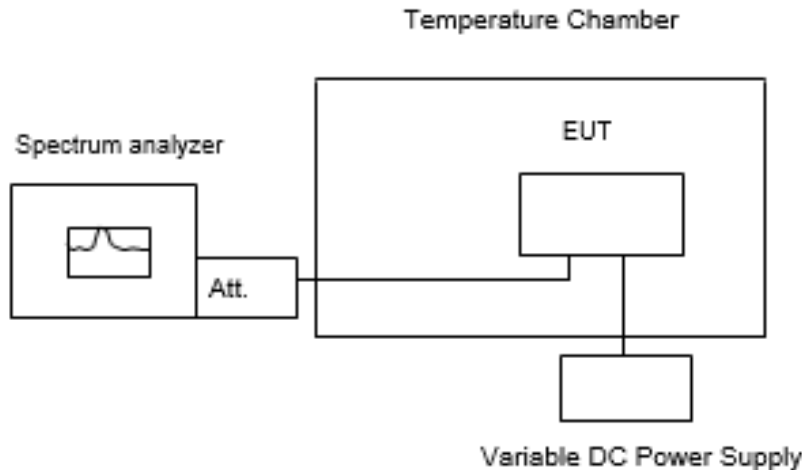
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

Set chamber temperature to 25°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

2/3G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
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
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

4G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
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
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.85V dc.

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GPRS 850 Mid Channel		836.6	MHz	
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.43	20	836.600003	3	2091
3.85	20	836.600008	8	2091
3.35	20	836.600001	1	2091
6.3 (End point)	20	836.599996	-4	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600005	5	2091
3.85	40	836.599988	-12	2091
3.85	30	836.600006	6	2091
3.85	20	836.600007	7	2091
3.85	10	836.599998	-2	2091
3.85	0	836.599991	-9	2091
3.85	-10	836.599997	-3	2091
3.85	-20	836.600001	1	2091
3.85	-30	836.600007	7	2091

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GPRS 1900 Mid Channel			1880	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.43	20	1880.000006	6	4700
3.85	20	1880.000009	9	4700
3.35	20	1880.000008	8	4700
6.3 (End point)	20	1879.999993	-7	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999996	-4	4700
3.85	40	1879.999998	-2	4700
3.85	30	1879.999991	-9	4700
3.85	20	1880.000003	3	4700
3.85	10	1880.000012	12	4700
3.85	0	1879.999994	-6	4700
3.85	-10	1880.000004	4	4700
3.85	-20	1880.000001	1	4700
3.85	-30	1880.000007	7	4700

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WCDMA II Mid Channel			1880	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.43	20	1879.999992	-8	4700
3.85	20	1880.000009	9	4700
3.35	20	1880.000011	11	4700
6.3 (End point)	20	1880.000007	7	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1880.000004	4	4700
3.85	40	1880.000006	6	4700
3.85	30	1880.000001	1	4700
3.85	20	1879.999995	-5	4700
3.85	10	1880.000007	7	4700
3.85	0	1879.999997	-3	4700
3.85	-10	1879.999994	-6	4700
3.85	-20	1879.999999	-1	4700
3.85	-30	1880.000007	7	4700

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WCDMA IV Mid Channel			1732.6	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4.43	20	1732.600006	6	4331
3.85	20	1732.599998	-2	4331
3.35	20	1732.600005	5	4331
6.3 (End point)	20	1732.599992	-8	4331
FREQUENCY ERROR vs. Temp.				
3.85	50	1732.599996	-4	4331
3.85	40	1732.600003	3	4331
3.85	30	1732.600007	7	4331
3.85	20	1732.600001	1	4331
3.85	10	1732.599999	-10	4331
3.85	0	1732.599994	-6	4331
3.85	-10	1732.600004	4	4331
3.85	-20	1732.599993	-7	4331
3.85	-30	1732.600003	3	4331

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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				
4.43	20	836.599992	-8	2091
3.85	20	836.600002	2	2091
3.35	20	836.600011	11	2091
6.3 (End point)	20	836.599993	-7	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600005	5	2091
3.85	40	836.599992	-8	2091
3.85	30	836.599988	-12	2091
3.85	20	836.600003	3	2091
3.85	10	836.599994	-6	2091
3.85	0	836.600007	7	2091
3.85	-10	836.600003	3	2091
3.85	-20	836.599995	-5	2091
3.85	-30	836.599991	-9	2091
Reference Freq.:		LTE B2 Mid Channel	1880	MHz 20M QPSK CH 18900
Power Supply Vdc		Temp. (°C)	Freq. (MHz)	Delta (Hz)
Limit = +/- 2.5 ppm (Hz)				
Freq. ERROR vs. VOLTAGE				
4.35	25	1879.999991	-9	4700
3.85	25	1879.999998	-2	4700
3.65	25	1880.000004	4	4700
3.35	25	1880.000003	3	4700
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	1880.000002	2	4700
3.85	-20	1879.999992	-8	4700
3.85	-10	1880.000010	10	4700
3.85	0	1879.999994	-6	4700
3.85	10	1880.000002	2	4700
3.85	20	1880.000003	3	4700
3.85	30	1879.999993	-7	4700
3.85	40	1879.999999	-1	4700
3.85	50	1880.000005	5	4700

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Reference Freq.:	LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1732.500004	4	4331
3.85	25	1732.499997	-3	4331
3.65	25	1732.500002	2	4331
3.35 (End Point)	25	1732.500007	7	4331
Freq. ERROR vs. Temp.				
3.85	-30	1732.500006	6	4331
3.85	-20	1732.500008	8	4331
3.85	-10	1732.499998	-2	4331
3.85	0	1732.499991	-9	4331
3.85	10	1732.500010	10	4331
3.85	20	1732.499999	-1	4331
3.85	30	1732.499992	-8	4331
3.85	40	1732.500004	4	4331
3.85	50	1732.499991	-9	4331
Reference Freq.:	LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	836.499995	-5	2091
3.85	25	836.500004	4	2091
3.65	25	836.500009	9	2091
3.35 (End Point)	25	836.499999	-1	2091
Freq. ERROR vs. Temp.				
3.85	-30	836.499994	-6	2091
3.85	-20	836.500008	8	2091
3.85	-10	836.500003	3	2091
3.85	0	836.499999	-1	2091
3.85	10	836.499993	-7	2091
3.85	20	836.500006	6	2091
3.85	30	836.500008	8	2091
3.85	40	836.500002	2	2091
3.85	50	836.499990	-10	2091

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Reference Freq.:	LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	2534.999991	-9	6338
3.85	25	2535.000007	7	6338
3.65	25	2535.000003	3	6338
3.35 (End Point)	25	2534.999996	-4	6338
Freq. ERROR vs. Temp.				
3.85	-30	2535.000008	8	6338
3.85	-20	2534.999998	-2	6338
3.85	-10	2535.000005	5	6338
3.85	0	2534.999994	-6	6338
3.85	10	2535.000001	1	6338
3.85	20	2534.999993	-7	6338
3.85	30	2535.000006	6	6338
3.85	40	2535.000009	9	6338
3.85	50	2534.999990	-10	6338
Reference Freq.:	LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	707.500003	3	1769
3.85	25	707.500007	7	1769
3.65	25	707.499999	-1	1769
3.35 (End Point)	25	707.500004	4	1769
Freq. ERROR vs. Temp.				
3.85	-30	707.499991	-9	1769
3.85	-20	707.500007	7	1769
3.85	-10	707.500001	1	1769
3.85	0	707.500008	8	1769
3.85	10	707.499998	-2	1769
3.85	20	707.499994	-6	1769
3.85	30	707.500001	1	1769
3.85	40	707.500003	3	1769
3.85	50	707.499993	-7	1769

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Reference Freq.:	LTE B13 Mid		782	MHz 10M QPSK CH 23230
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	782.000005	5	1955
3.85	25	781.999990	-10	1955
3.65	25	782.000001	1	1955
3.35	25	781.999994	-6	1955
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	782.000003	3	1955
3.85	-20	782.000008	8	1955
3.85	-10	782.000007	7	1955
3.85	0	781.999997	-3	1955
3.85	10	782.000002	2	1955
3.85	20	781.999993	-7	1955
3.85	30	781.999995	-5	1955
3.85	40	781.999996	-4	1955
3.85	50	782.000005	5	1955
Reference Freq.:	LTE B17 Mid		710	MHz 10M QPSK CH 23790
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	710.000005	5	1775
3.85	25	710.000003	3	1775
3.65	25	709.999996	-4	1775
3.35	25	710.000006	6	1775
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	710.000008	8	1775
3.85	-20	709.999996	-4	1775
3.85	-10	709.999990	-10	1775
3.85	0	709.999998	-2	1775
3.85	10	710.000004	4	1775
3.85	20	710.000001	1	1775
3.85	30	710.000003	3	1775
3.85	40	710.000007	7	1775
3.85	50	709.999991	-9	1775

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Reference Freq.:	LTE B25 Mid		1882.5	MHz 20M QPSK CH 26365
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1882.499992	-8	4700
3.85	25	1882.500003	3	4700
3.65	25	1882.500005	5	4700
3.35	25	1882.500001	1	4700
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	1882.499998	-2	4700
3.85	-20	1882.499994	-6	4700
3.85	-10	1882.499996	-4	4700
3.85	0	1882.500001	1	4700
3.85	10	1882.500007	7	4700
3.85	20	1882.500006	6	4700
3.85	30	1882.499997	-3	4700
3.85	40	1882.499996	-4	4700
3.85	50	1882.499999	-1	4700

Reference Freq.:	LTE B26 Mid		831.5	MHz 15M QPSK CH 26865
	Channel			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	831.499995	-5	2091
3.85	25	831.500006	6	2091
3.65	25	831.500001	1	2091
3.35	25	831.500003	3	2091
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	831.499992	-8	2091
3.85	-20	831.500006	6	2091
3.85	-10	831.500001	1	2091
3.85	0	831.500005	5	2091
3.85	10	831.499997	-3	2091
3.85	20	831.500008	8	2091
3.85	30	831.500001	1	2091
3.85	40	831.499994	-6	2091
3.85	50	831.500005	5	2091

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Reference Freq.:	Part 90 LTE B26 Mid Channel		819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
4.35	25	819.000005	5	2048
3.85	25	819.000003	3	2048
3.65	25	818.999992	-8	2048
3.35	25	819.000001	1	2048
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	819.000002	2	2048
3.85	-20	819.000006	6	2048
3.85	-10	818.999996	-4	2048
3.85	0	819.000001	1	2048
3.85	10	818.999991	-9	2048
3.85	20	819.000010	10	2048
3.85	30	819.000003	3	2048
3.85	40	818.999993	-7	2048
3.85	50	819.000006	6	2048

Reference Freq.:	LTE B30 Mid Channel		2310	MHz 10M QPSK CH 27710
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	2310.000006	6	6488
3.85	25	2310.000004	4	6488
3.65	25	2310.000002	2	6488
3.35	25	2310.000005	5	6488
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	2309.999999	-1	6488
3.85	-20	2309.999993	-7	6488
3.85	-10	2310.000006	6	6488
3.85	0	2310.000002	2	6488
3.85	10	2310.000008	8	6488
3.85	20	2309.999990	-10	6488
3.85	30	2309.999994	-6	6488
3.85	40	2310.000005	5	6488
3.85	50	2310.000004	4	6488

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Reference Freq.:	LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	2595.000003	3	6488
3.85	25	2595.000007	7	6488
3.65	25	2594.999999	-1	6488
3.35 (End Point)	25	2595.000004	4	6488
Freq. ERROR vs. Temp.				
3.85	-30	2594.999995	-5	6488
3.85	-20	2595.000006	6	6488
3.85	-10	2594.999992	-8	6488
3.85	0	2594.999997	-3	6488
3.85	10	2594.999999	-1	6488
3.85	20	2595.000007	7	6488
3.85	30	2594.999998	-2	6488
3.85	40	2595.000005	5	6488
3.85	50	2595.000008	8	6488

Reference Freq.:	LTE B41 Mid Channel		2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	2592.999999	-1	6488
3.85	25	2593.000003	3	6488
3.65	25	2592.999991	-9	6488
3.35 (End Point)	25	2592.999998	-2	6488
Freq. ERROR vs. Temp.				
3.85	-30	2593.000005	5	6488
3.85	-20	2593.000007	7	6488
3.85	-10	2592.999997	-3	6488
3.85	0	2592.999992	-8	6488
3.85	10	2592.999996	-4	6488
3.85	20	2592.999992	-8	6488
3.85	30	2593.000002	2	6488
3.85	40	2593.000005	5	6488
3.85	50	2593.000001	1	6488

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Reference Freq.:	LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1744.999996	-4	6488
3.85	25	1744.999997	-3	6488
3.65	25	1744.999991	-9	6488
3.35 (End Point)	25	1745.000005	5	6488
Freq. ERROR vs. Temp.				
3.85	-30	1744.999993	-7	6488
3.85	-20	1744.999997	-3	6488
3.85	-10	1744.999998	-2	6488
3.85	0	1745.000006	6	6488
3.85	10	1745.000008	8	6488
3.85	20	1745.000009	9	6488
3.85	30	1745.000004	4	6488
3.85	40	1744.999997	-3	6488
3.85	50	1744.999993	-7	6488
Reference Freq.:	LTE B71 Mid Channel		681	MHz 10M QPSK CH 133297
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	680.499990	-10	6488
3.85	25	680.499995	-5	6488
3.65	25	680.500001	1	6488
3.35 (End Point)	25	680.500002	2	6488
Freq. ERROR vs. Temp.				
3.85	-30	680.500003	3	6488
3.85	-20	680.500001	1	6488
3.85	-10	680.499993	-7	6488
3.85	0	680.499996	-4	6488
3.85	10	680.500005	5	6488
3.85	20	680.500006	6	6488
3.85	30	680.500008	8	6488
3.85	40	680.499991	-9	6488
3.85	50	680.499995	-5	6488

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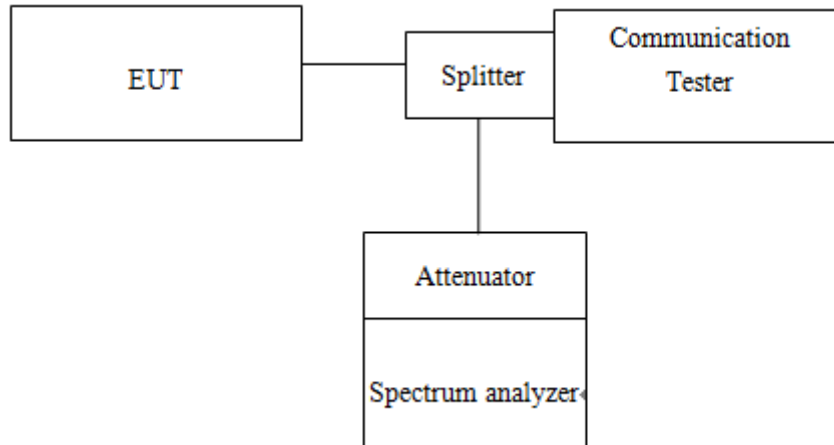
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11 PEAK TO AVERAGE RATIO

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.

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11.4 Measurement Equipment Used

2/3G

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
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
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

4G

Conducted Emission (measured at antenna port) Test Site					
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 Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
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
Splitter	RF-LAMBAD	RFLT2W1G18G	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)		
		GSM 850	GPRS 850	EDGE 850
824.2	128	9.5	9.24	9.69
836.6	190	9.48	9.62	10.01
848.8	251	9.37	9.67	9.61
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	9.99	9.52	10.02
1880	661	9.71	9.65	9.34
1909.8	810	9.6	9.78	9.88
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.90	3.97	3.94
1880	9400	2.88	3.78	3.70
1907.6	9538	2.86	3.71	3.72
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.98	3.85	3.81
1732.6	1413	2.96	3.62	4.01
1752.6	1513	2.92	3.86	4.07
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	2.98	4.18	4.19
836.6	4183	3.02	4.26	4.07
846.6	4233	2.94	4.07	4.01

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1850.7	18607	7.12	13	1851.5	18615	6.59	13
1880.0	18900	6.94	13	1880.0	18900	6.70	13
1909.3	19193	6.68	13	1908.5	19185	6.63	13
LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1852.5	18625	6.57	13	1855.0	18650	6.68	13
1880.0	18900	6.70	13	1880.0	18900	6.68	13
1907.5	19175	6.65	13	1905.0	19150	6.57	13
LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1857.5	18675	6.63	13	1860.0	18700	6.91	13
1880.0	18900	6.65	13	1880.0	18900	6.74	13
1902.5	19125	6.58	13	1900.0	19100	6.88	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)	
		256QAM	Limit			256QAM	Limit
1710.7	19957	6.88	13	1711.5	19965	6.68	13
1732.5	20175	6.80	13	1732.5	20175	6.71	13
1754.3	20393	6.89	13	1753.5	20385	6.75	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1712.5	19957	6.61	13	1715.0	20000	6.68	13
1732.5	20175	6.64	13	1732.5	20175	6.64	13
1752.5	20375	6.66	13	1750.0	20350	6.63	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1717.5	20025	6.67	13	1720.0	20050	6.83	13
1732.5	20175	6.70	13	1732.5	20175	6.81	13
1747.5	20325	6.66	13	1745.0	20300	6.85	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
824.7	20407	6.85	13	825.5	20415	6.68	13
836.5	20525	6.51	13	836.5	20525	6.61	13
848.3	20643	6.81	13	847.5	20635	6.65	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
826.5	20425	6.54	13	829.0	20450	6.55	13
836.5	20525	6.61	13	836.5	20525	6.46	13
846.5	20625	6.51	13	844.0	20600	6.51	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2502.5	20775	6.63	13	2505.0	20800	6.61	13
2535.0	21100	6.70	13	2535.0	21100	6.62	13
2567.5	21375	6.62	13	2565.0	21350	6.77	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2507.5	20825	6.75	13	2510	20850	6.71	13
2535.0	21100	6.70	13	2535	21100	6.87	13
2562.5	21375	6.66	13	2560	21350	6.90	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
699.7	23017	6.73	13	700.5	23025	6.60	13
707.5	23095	7.01	13	707.5	23095	6.53	13
715.3	23173	6.77	13	714.5	23165	6.55	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
701.5	23035	6.62	13	704.0	23060	6.63	13
707.5	23095	6.59	13	707.5	23095	6.47	13
713.5	23155	6.51	13	711.0	23130	6.49	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
779.5	23205	6.62	13	782.0	23230	6.65	13
782.0	23230	6.54	13				
784.5	23255	6.81	13				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
706.5	23755	6.59	13	709.0	23780	6.46	13
710.0	23790	6.80	13	710.0	23790	6.44	13
713.5	23825	6.54	13	711.0	23800	6.53	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1850.7	26047	6.79	13	1851.5	26055	6.64	13
1882.5	26365	6.97	13	1882.5	26365	6.70	13
1914.3	26683	6.90	13	1913.5	26675	6.54	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1852.5	26065	6.66	13	1855.0	26090	6.59	13
1882.5	26365	6.64	13	1882.5	26365	6.60	13
1912.5	26665	6.59	13	1910.0	26640	6.46	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1857.5	26115	6.57	13	1860.0	26140	6.82	13
1882.5	26365	6.54	13	1882.5	26365	6.69	13
1907.5	26615	6.59	13	1905.0	26590	6.84	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
814.7	26697	6.91	13	815.5	26705	6.72	13
831.5	26865	6.80	13	831.5	26865	6.63	13
848.3	27033	6.62	13	847.5	27025	6.55	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
816.5	26715	6.53	13	820.0	26750	6.63	13
831.5	26865	6.59	13	831.5	26865	6.55	13
846.5	27015	6.62	13	844.0	26990	6.48	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		256QAM	Limit				
822.5	26775	6.64	13				
831.5	26865	6.66	13				
841.5	26965	6.62	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2307.5	27685	6.75	13	2310.0	27710	6.70	13
2310.0	27710	6.65	13				
2312.5	27735	6.61	13				

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2572.5	37775	10.82	13	2575	37800	9.92	13
2595.0	38000	12.08	13	2595	38000	12.28	13
2617.5	38225	9.12	13	2615	38200	11.02	13
LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2577.5	37825	11.86	13	2580.0	37850	10.37	13
2595.0	38000	11.31	13	2595.0	38000	11.30	13
2612.5	38175	10.88	13	2610.0	38150	10.19	13
LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2498.5	39675	11.54	13	2501.0	39700	10.81	13
2593.0	40620	10.20	13	2593.0	40620	10.80	13
2687.5	41565	9.95	13	2685.0	41540	11.44	13
LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2503.5	39725	12.03	13	2506.0	39750	11.36	13
2593.0	40620	10.79	13	2593.0	40620	11.37	13
2682.5	41515	11.18	13	2680.0	41490	10.96	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1710.7	131979	6.91	13	1711.5	131987	6.74	13
1745.0	132322	7.00	13	1745.0	132322	6.71	13
1779.3	132665	6.76	13	1778.5	132657	6.73	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1712.5	131997	6.78	13	1715.0	132022	6.67	13
1745.0	132322	6.67	13	1745.0	132322	6.62	13
1777.5	132647	6.71	13	1775.0	132622	6.68	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1717.5	132047	6.62	13	1720.0	132072	6.79	13
1745.0	132322	6.74	13	1745.0	132322	6.77	13
1772.5	132597	6.68	13	1770.0	132572	6.83	13

LTE BAND 71							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
665.5	133147	6.48	13	668.0	133172	6.55	13
680.5	133297	6.56	13	680.5	133297	6.59	13
695.5	133447	6.58	13	693.0	133422	6.60	13

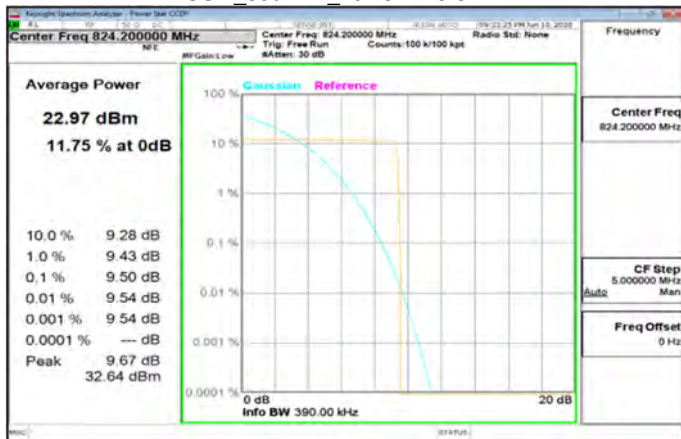
LTE BAND 71							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
670.5	133197	6.67	13	673.0	133222	6.82	13
680.5	133297	6.65	13	680.5	133297	6.68	13
690.5	133397	6.52	13	688.0	133372	6.70	13

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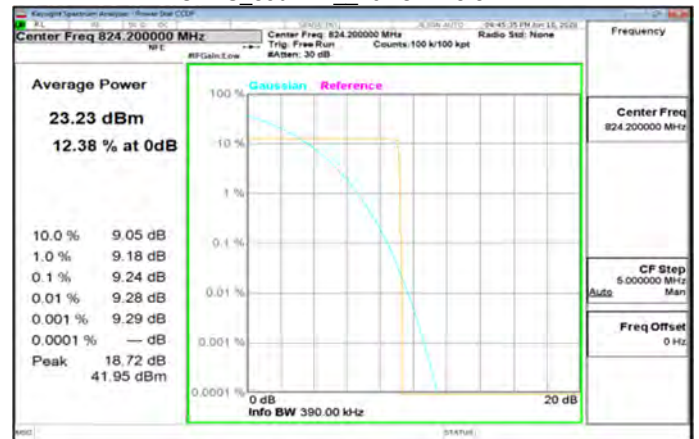
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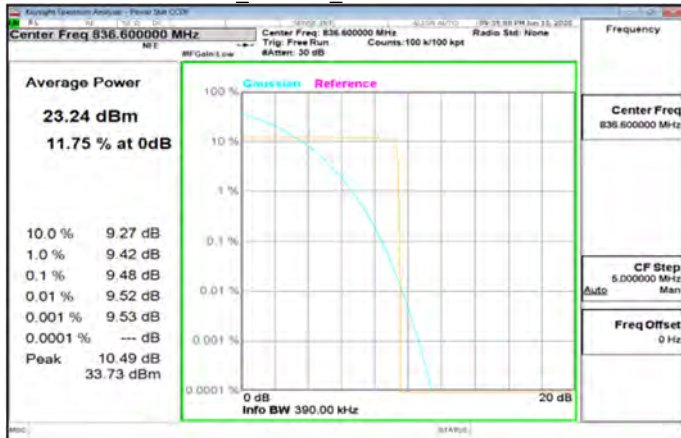
GSM 850MHz_LowCH128-824.2



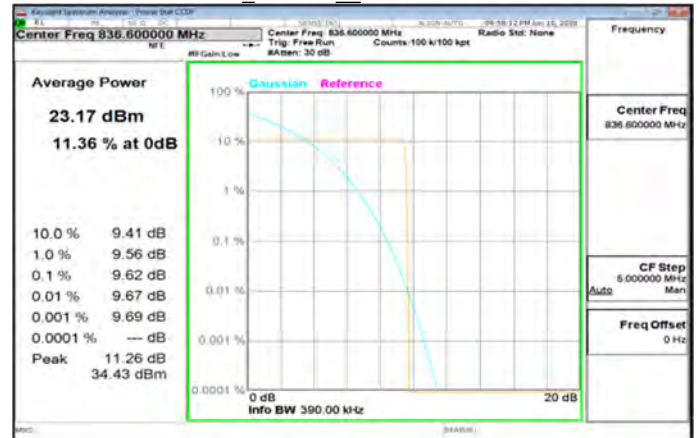
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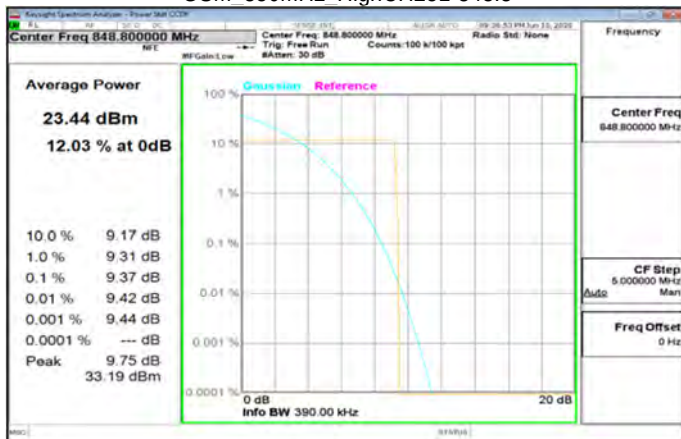
GSM 850MHz_MidCH190-836.6



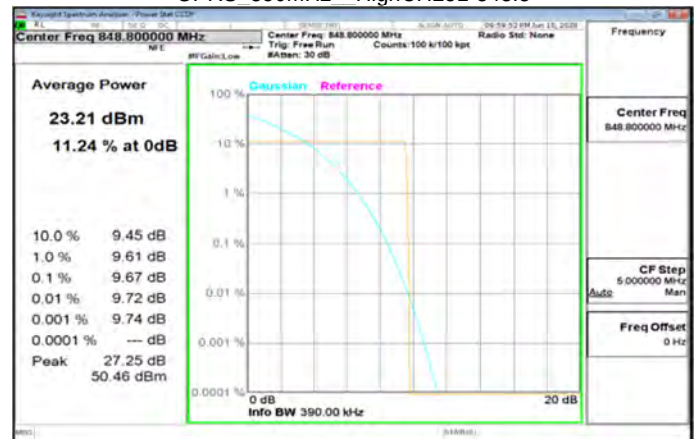
GPRS 850MHz_MidCH190-836.6



GSM 850MHz_HighCH251-848.8



GPRS 850MHz_HighCH251-848.8

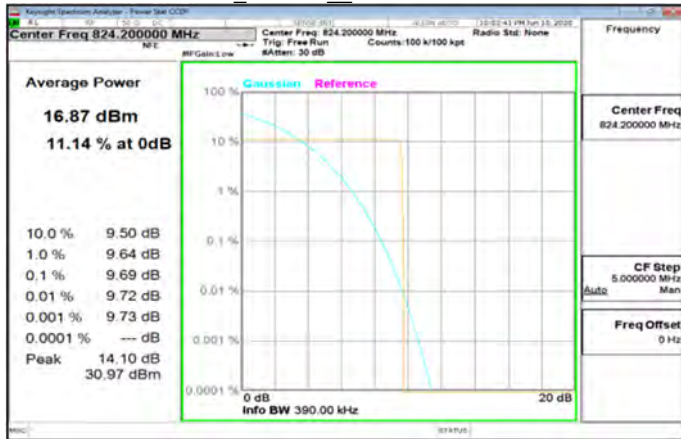


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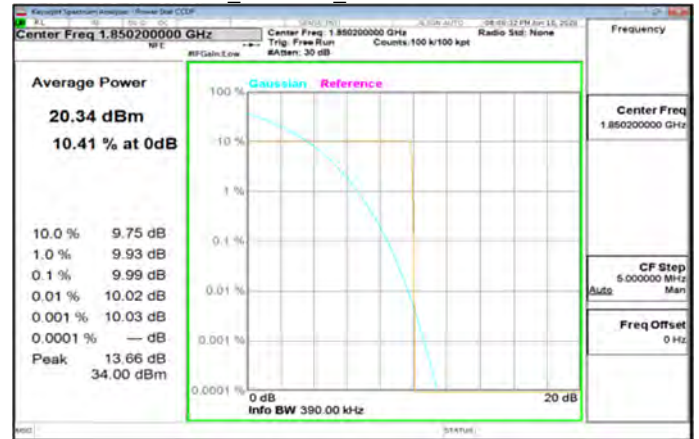
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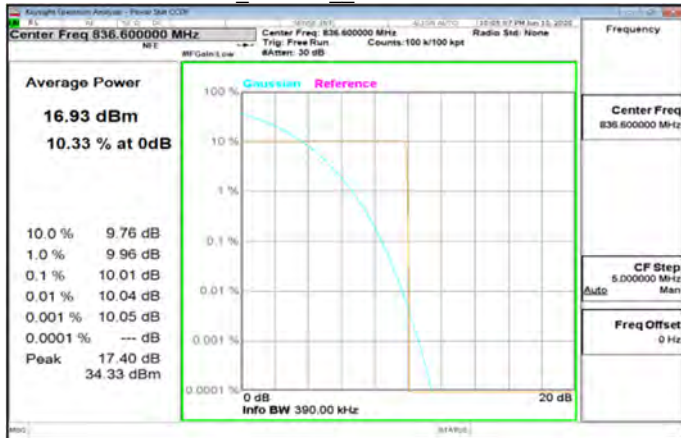
EDGE 850MHz LowCH128-824.2



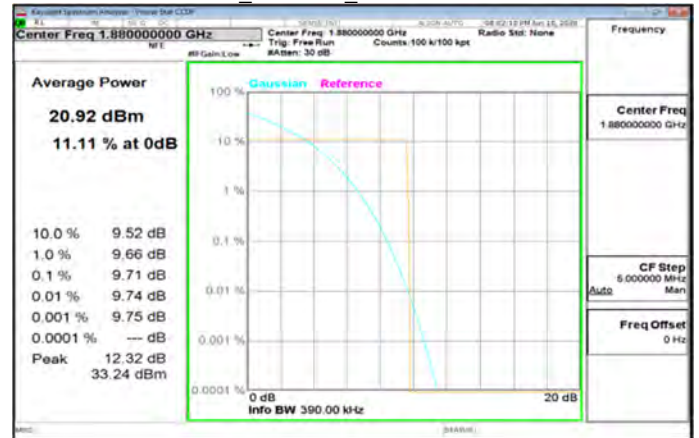
GSM 1900MHz LowCH512-1850.2



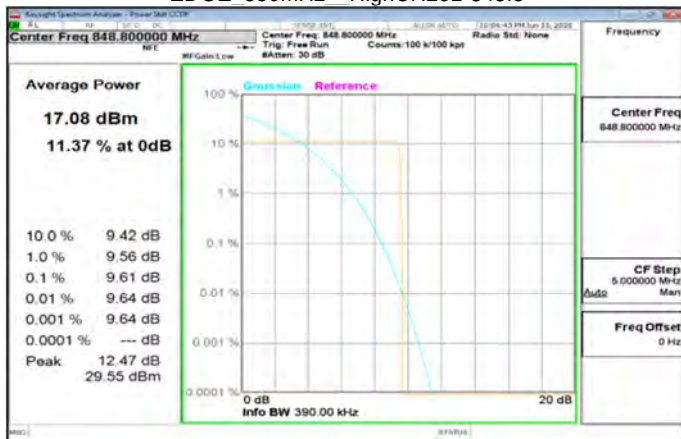
EDGE 850MHz MidCH190-836.6



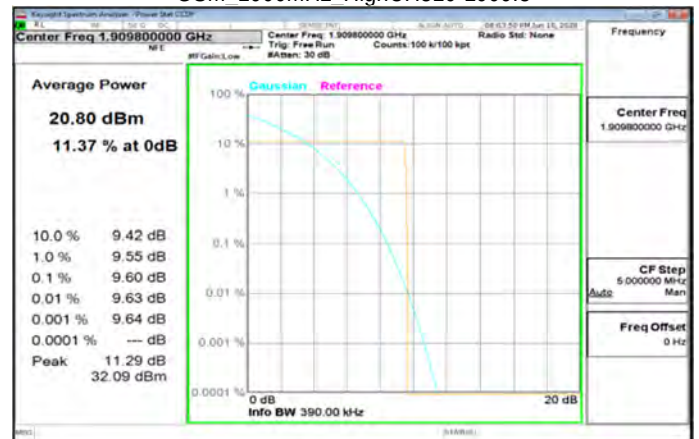
GSM 1900MHz MidCH661-1880



EDGE 850MHz HighCH251-848.8



GSM 1900MHz HighCH810-1909.8

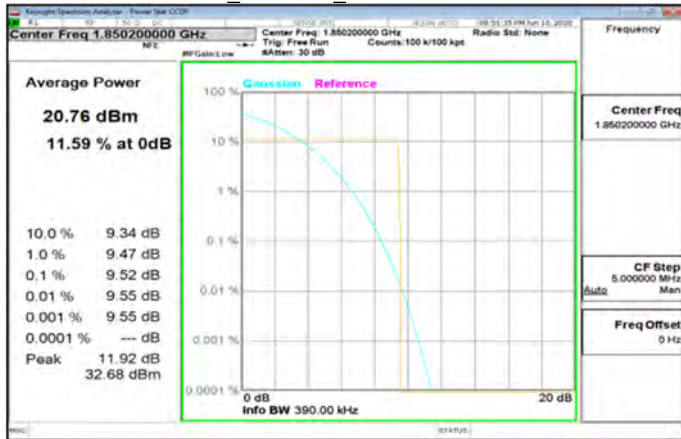


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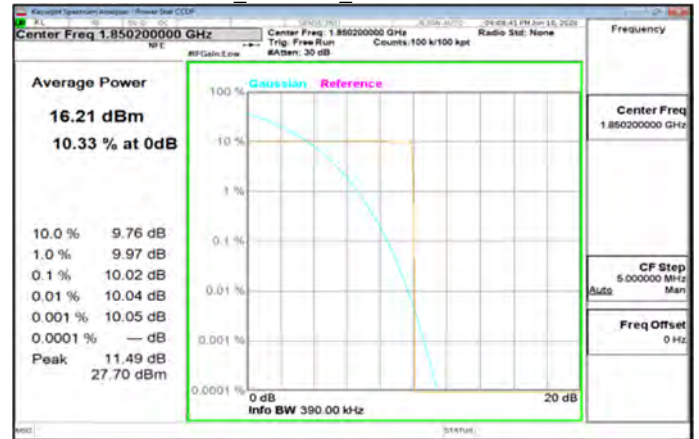
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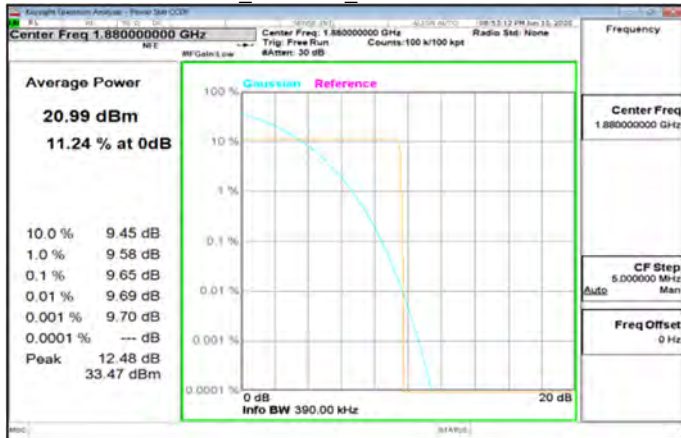
GPRS_1900MHz_LowCH512-1850.2



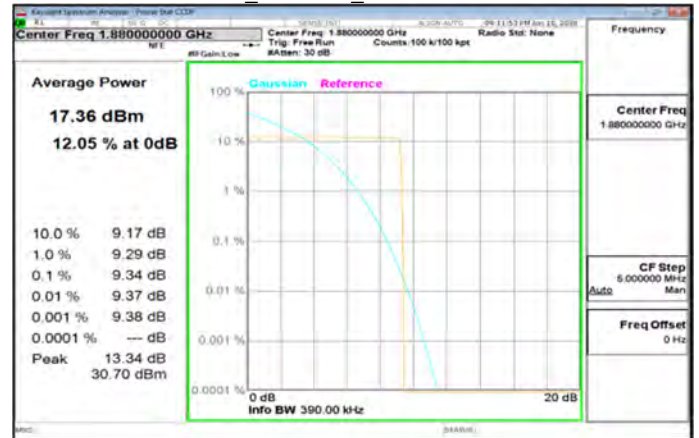
EDGE_1900MHz_LowCH512-1850.2



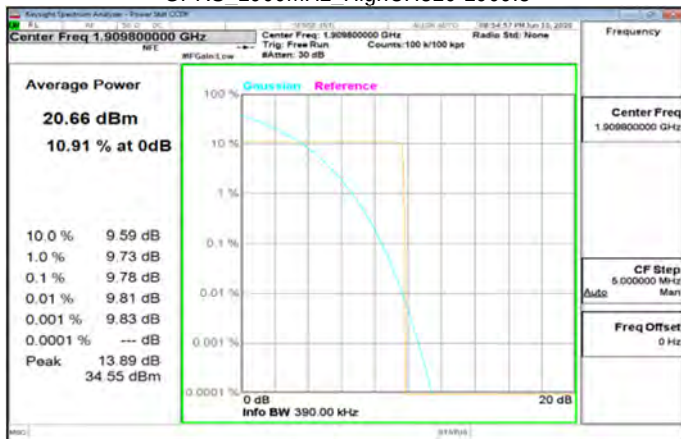
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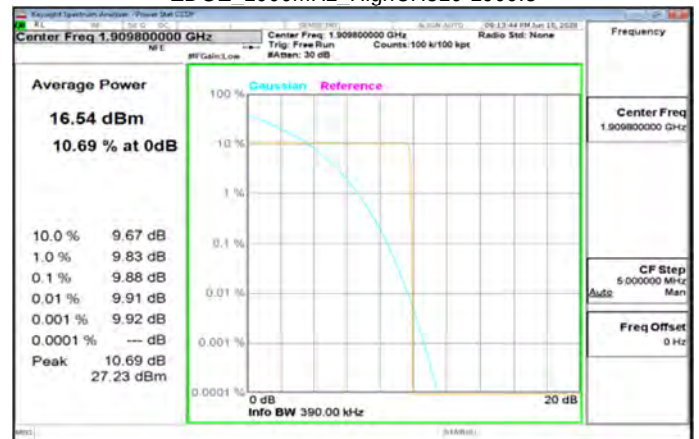
EDGE_1900MHz_MidCH661-1880



GPRS_1900MHz_HighCH810-1909.8



EDGE_1900MHz_HighCH810-1909.8

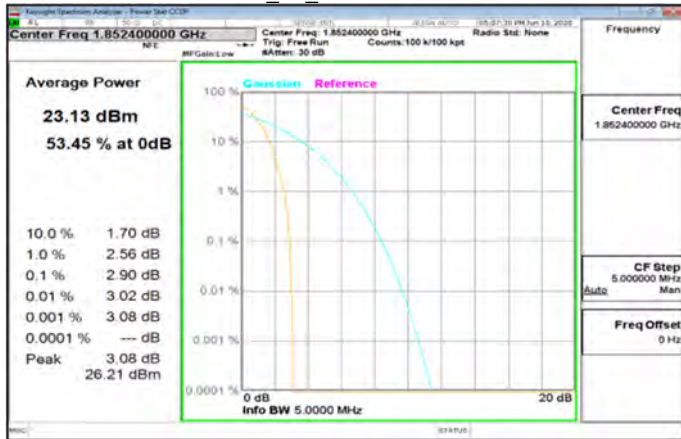


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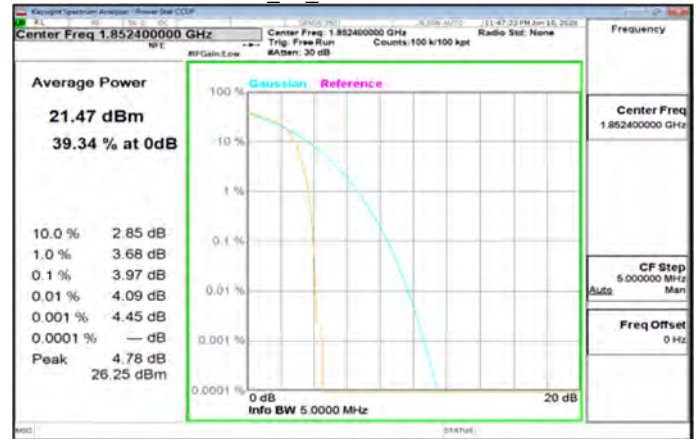
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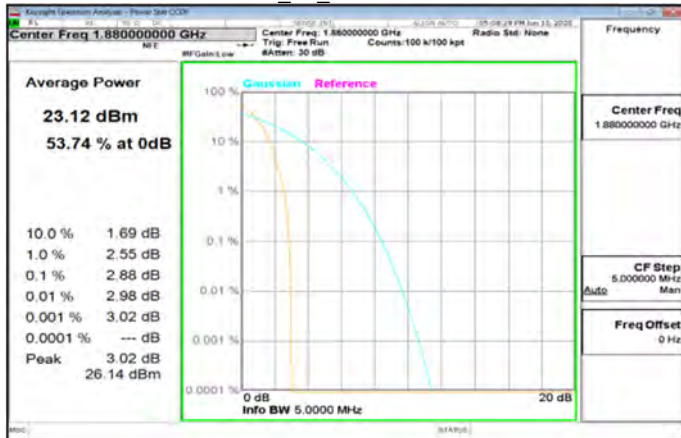
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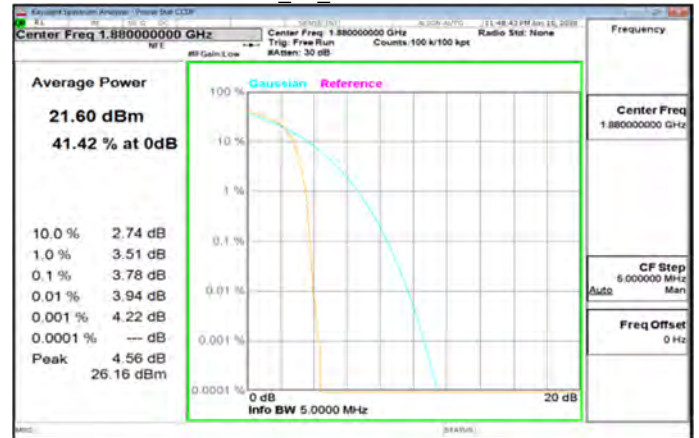
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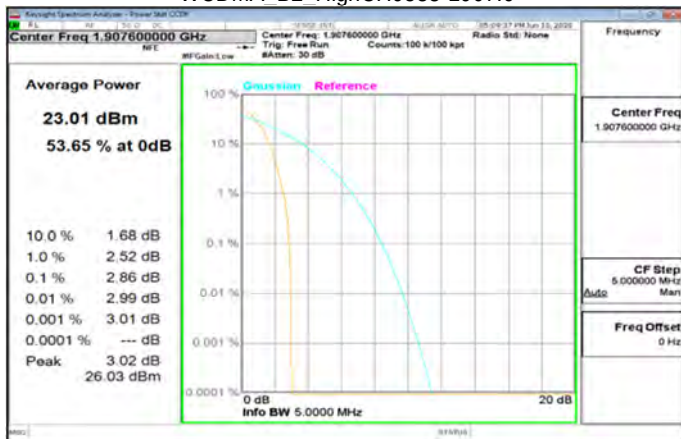
WCDMA_B2_MidCH9400-1880



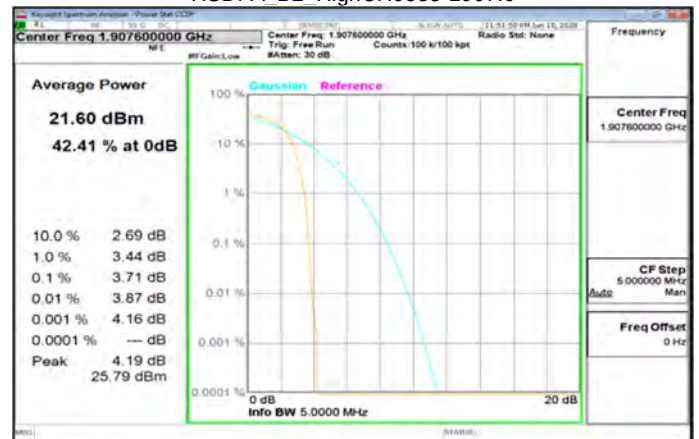
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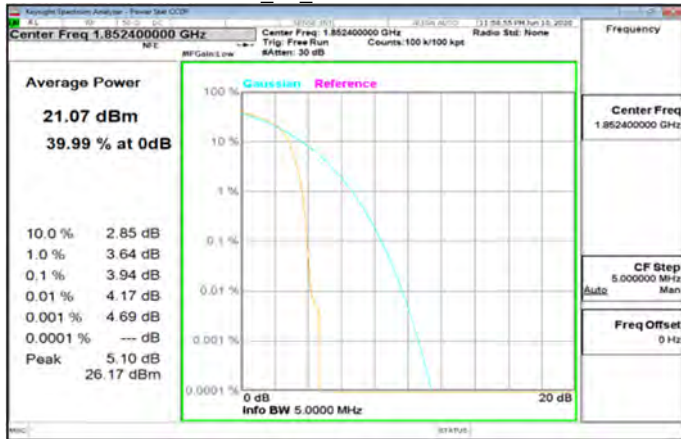


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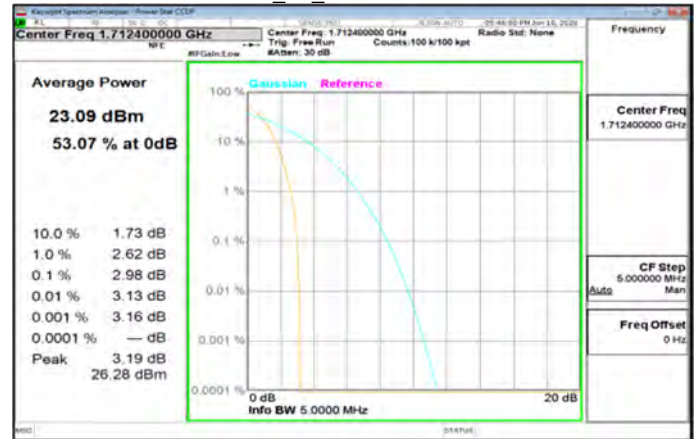
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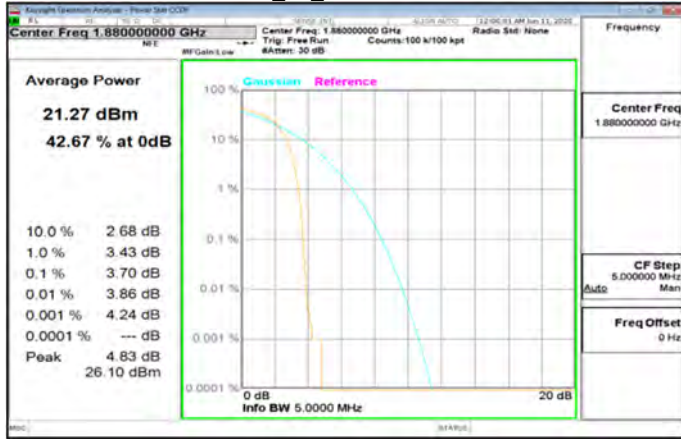
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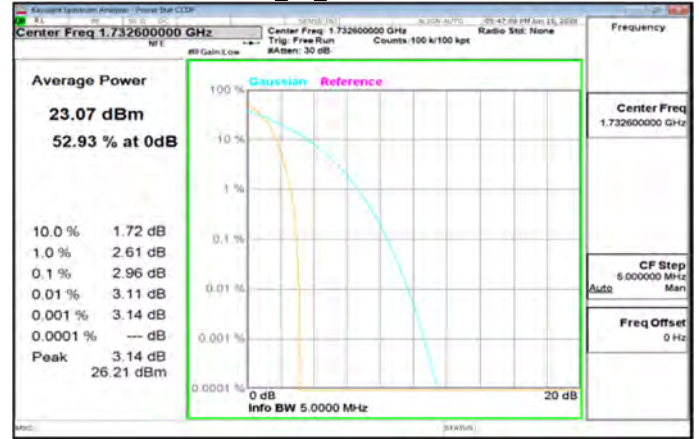
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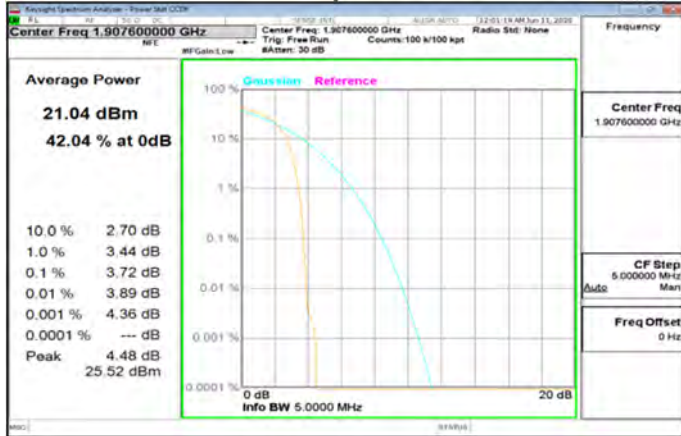
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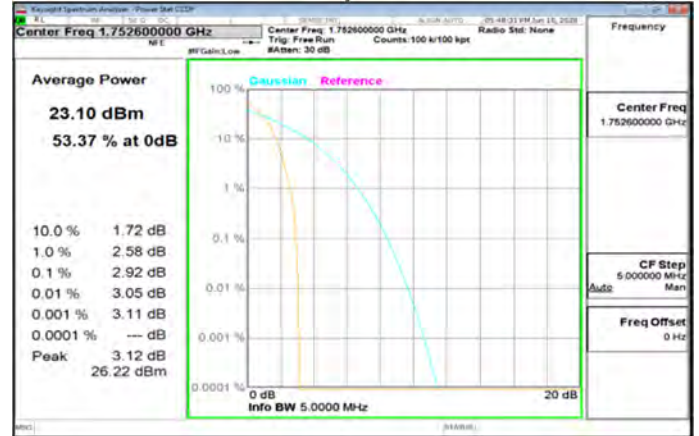
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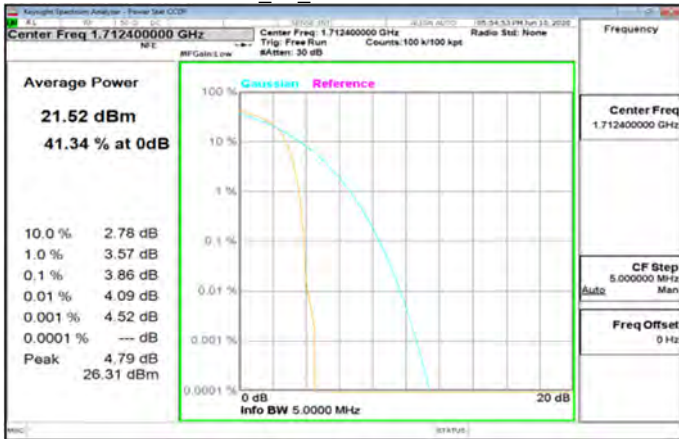


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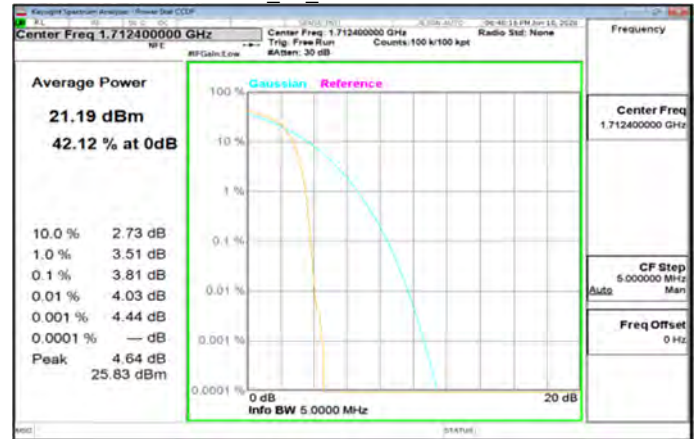
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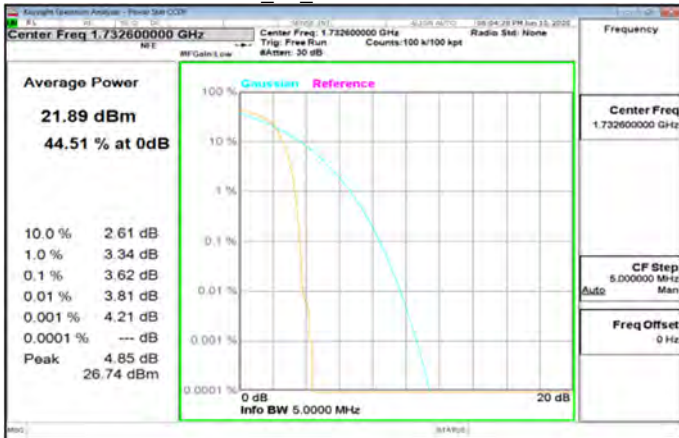
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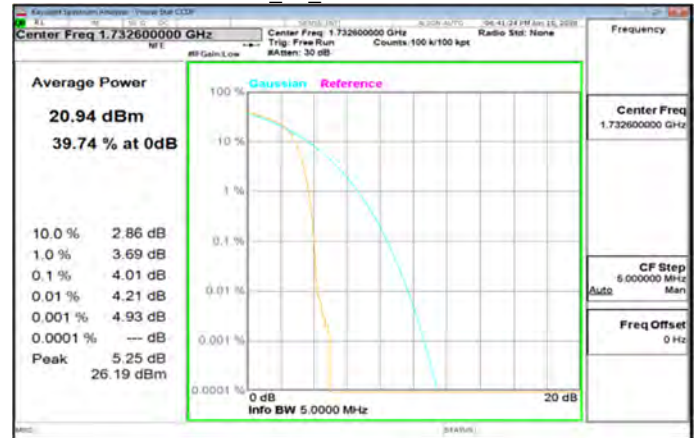
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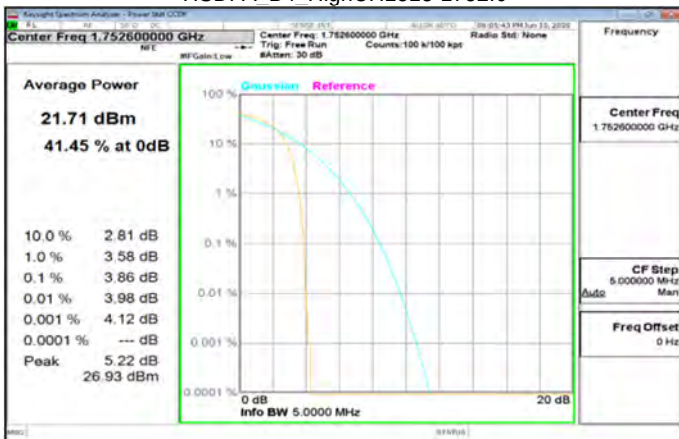
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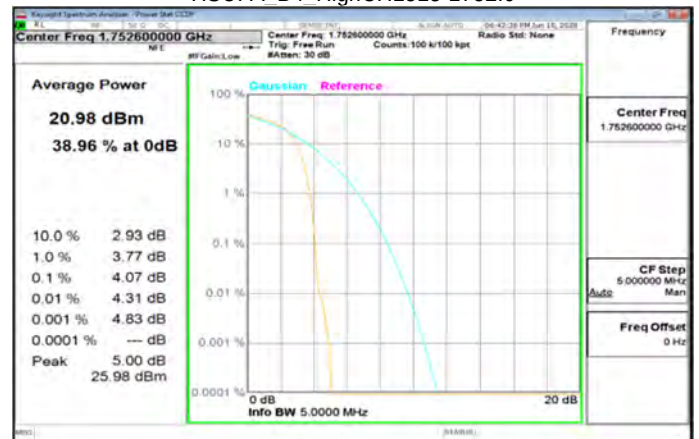
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HSUPA_B4_HighCH1513-1752.6

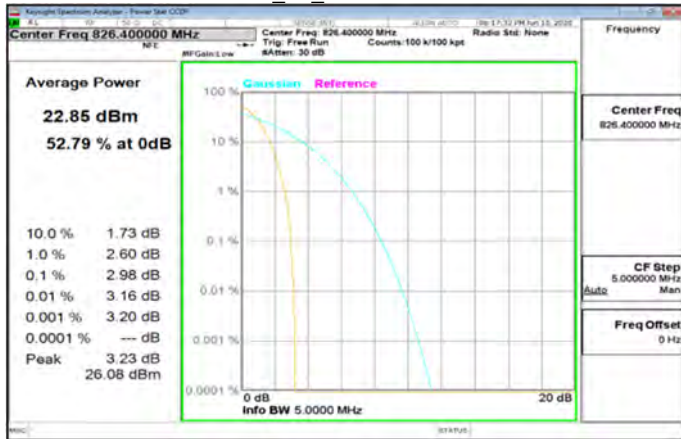


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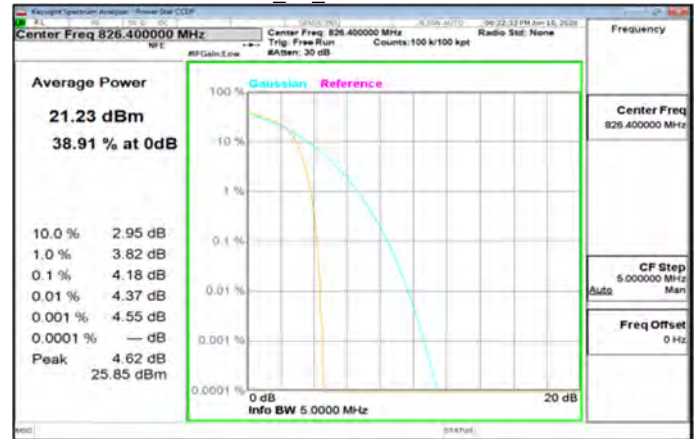
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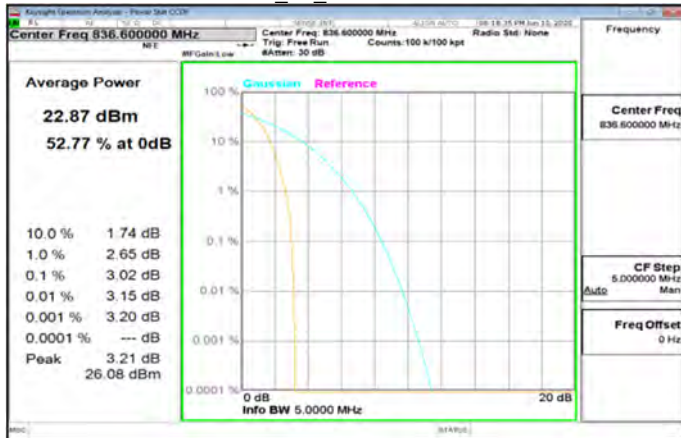
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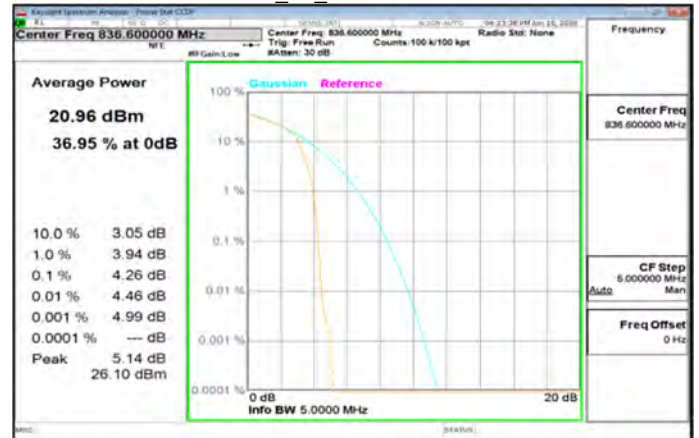
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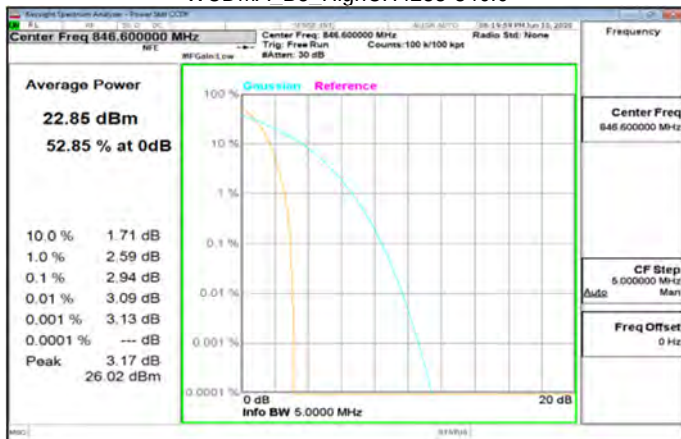
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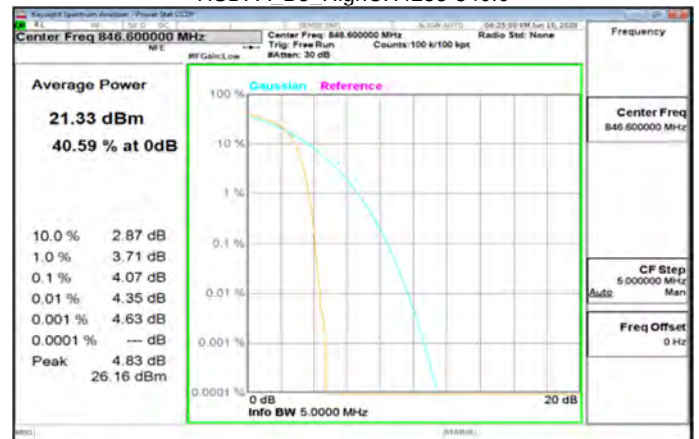
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HSDPA_B5_HighCH4233-846.6

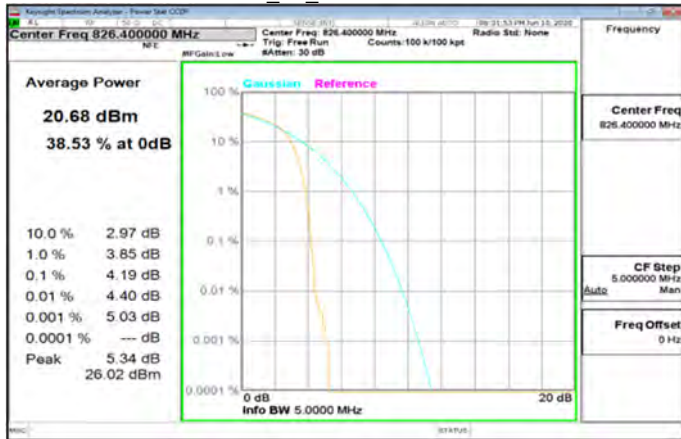


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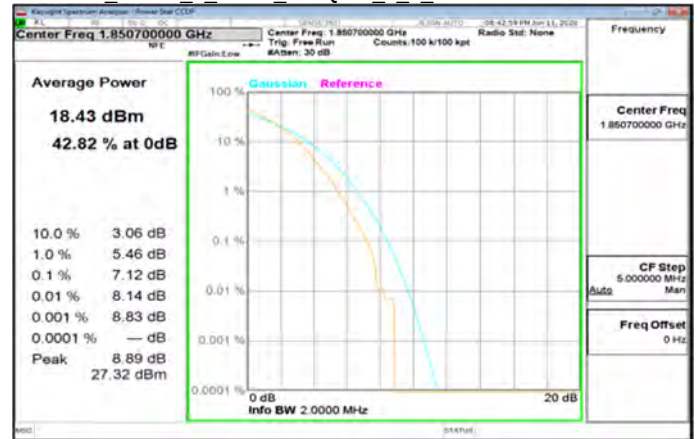
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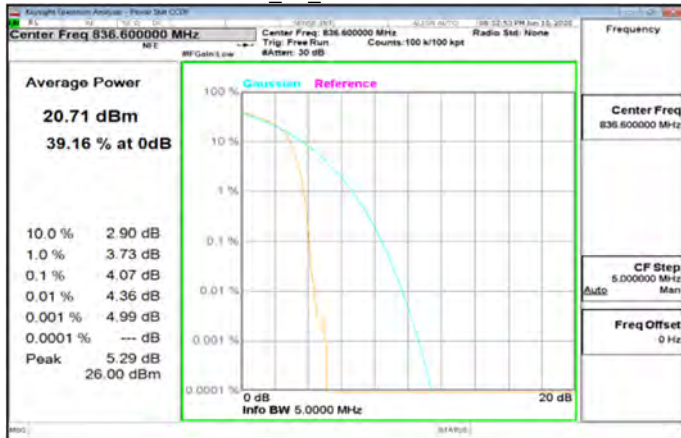
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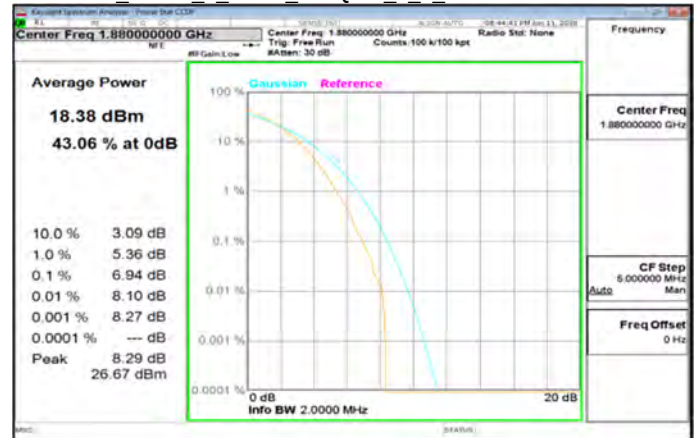
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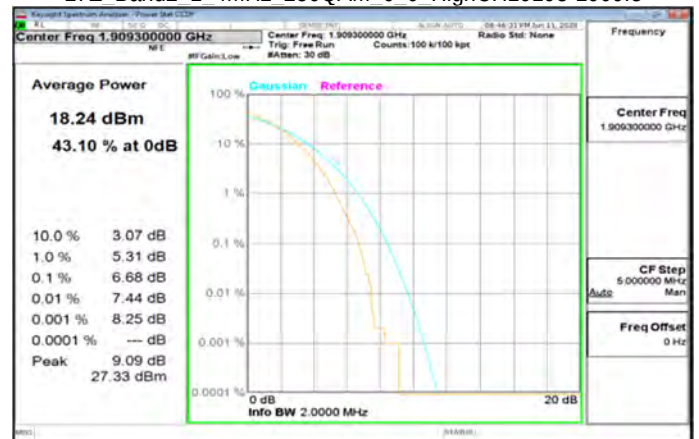
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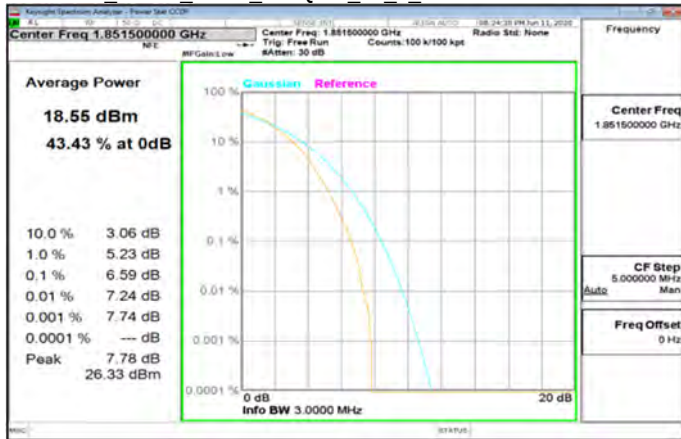


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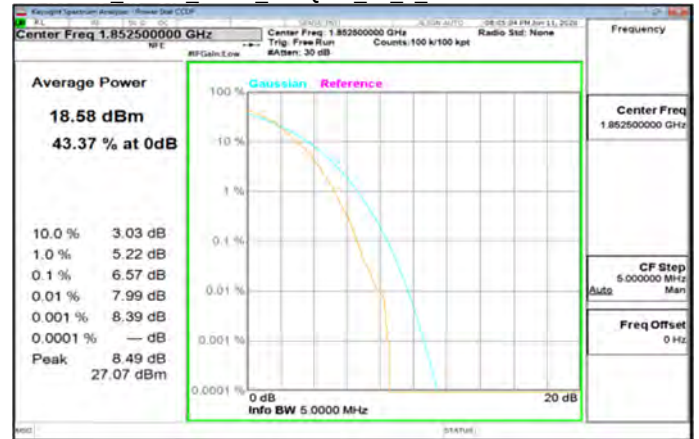
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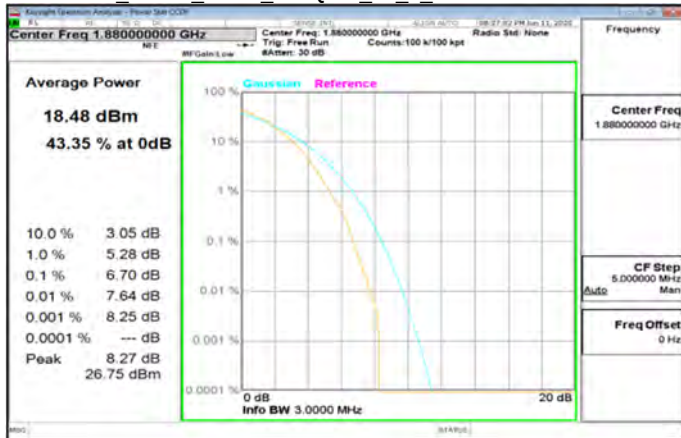
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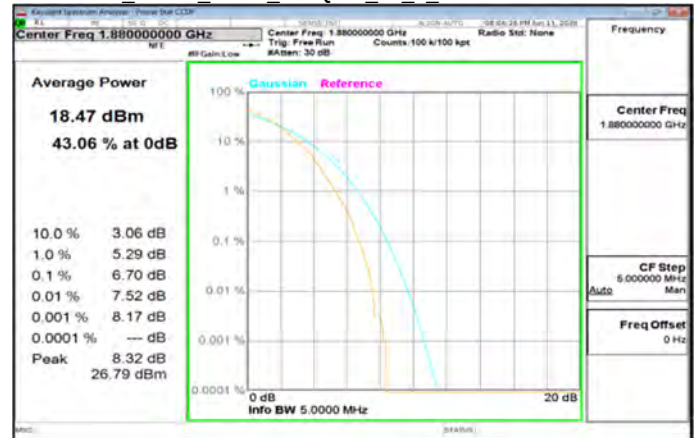
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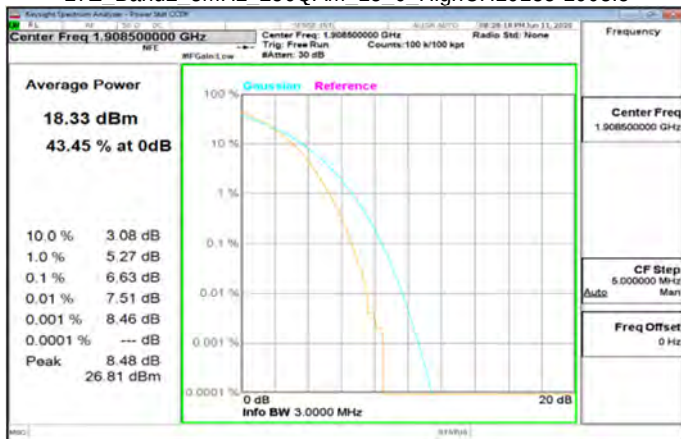
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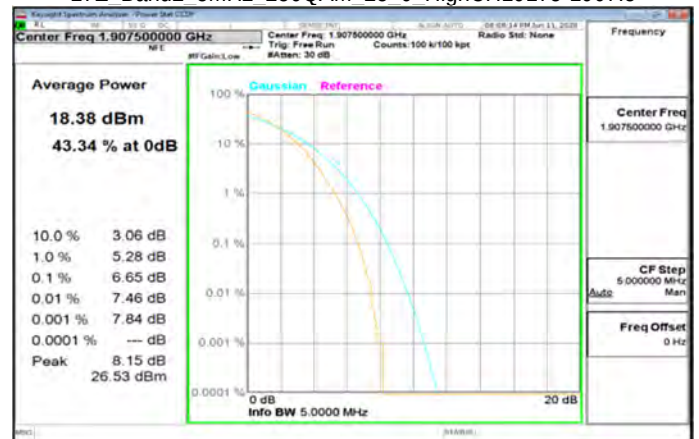
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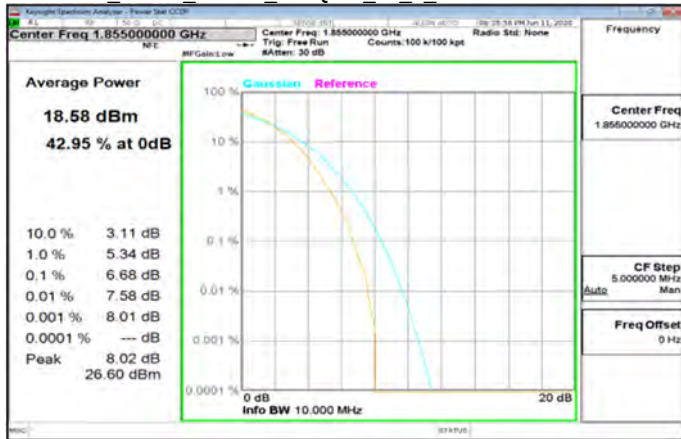


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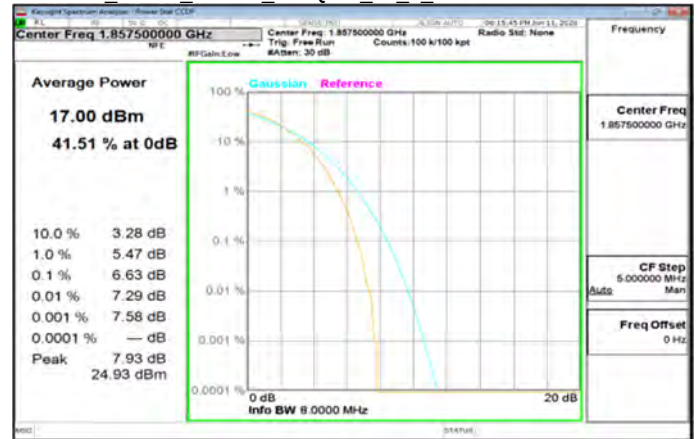
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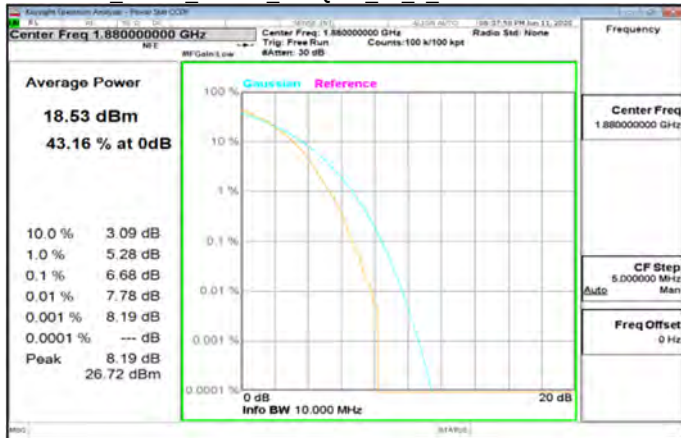
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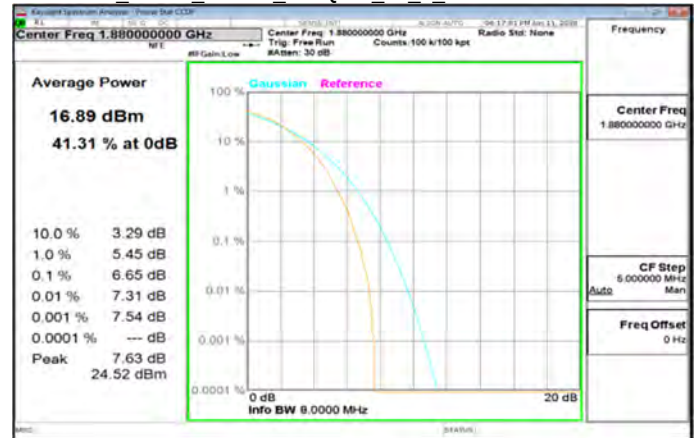
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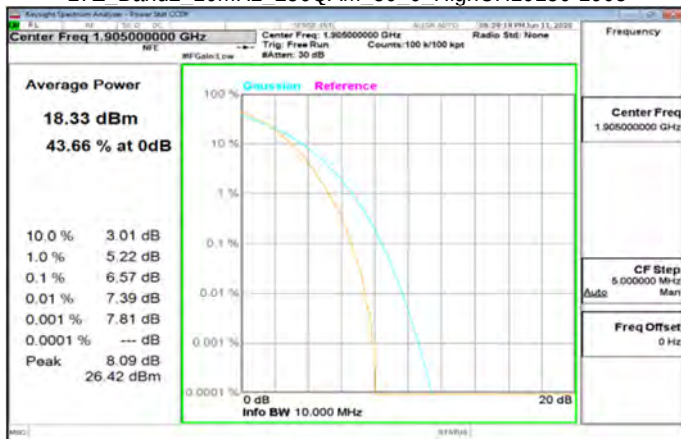
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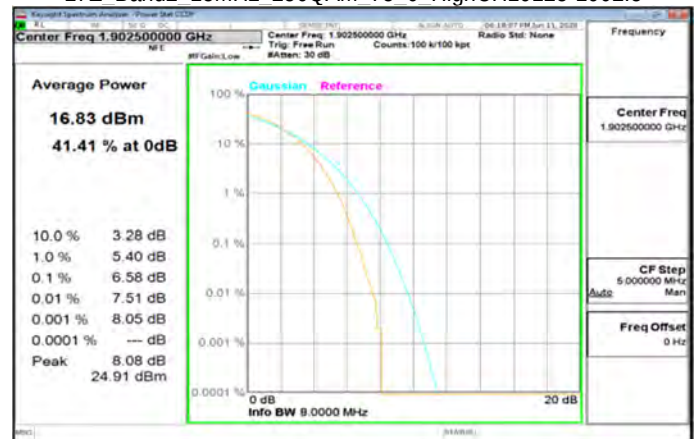
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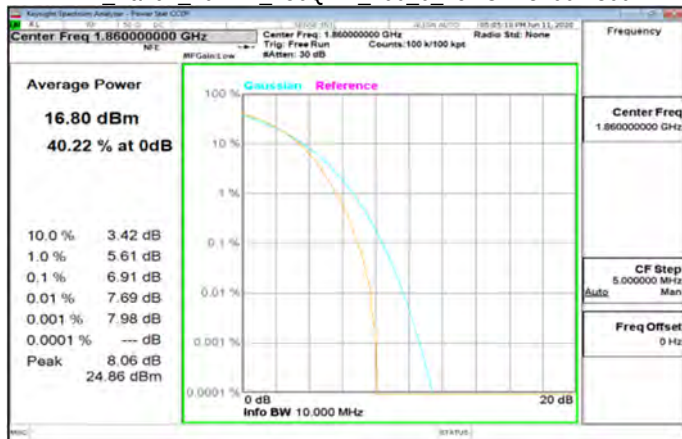


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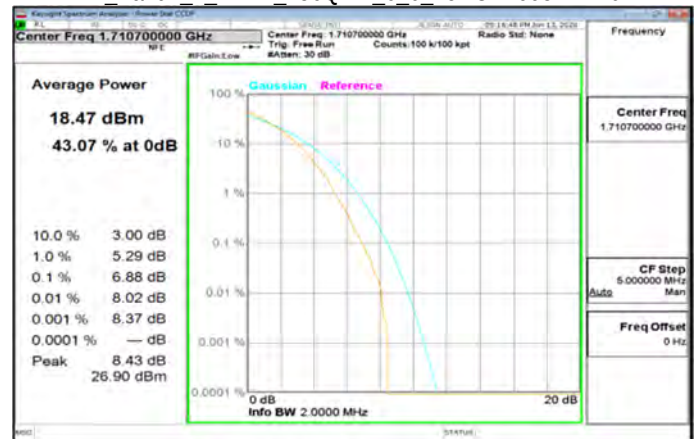
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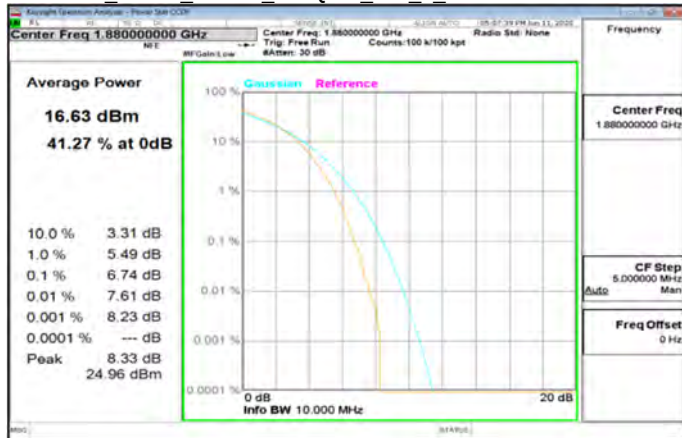
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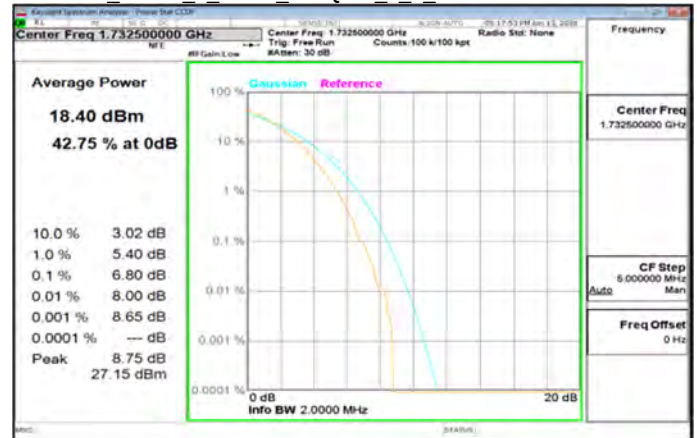
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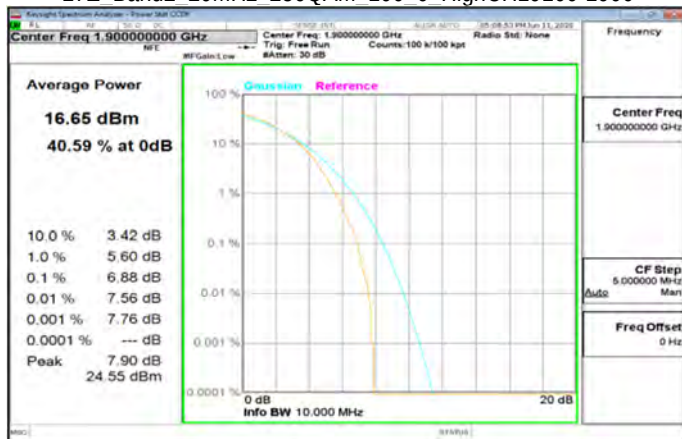
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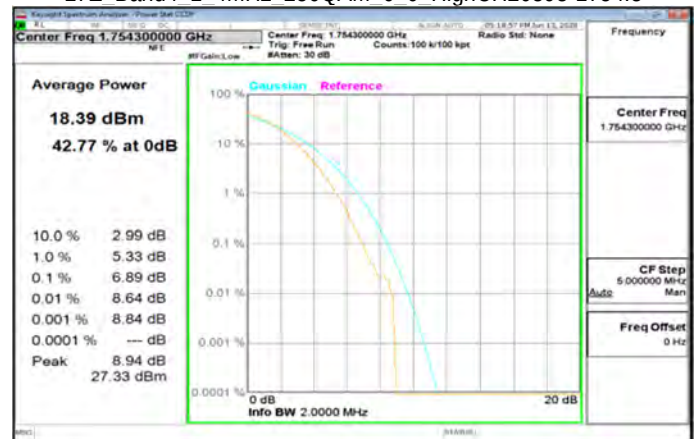
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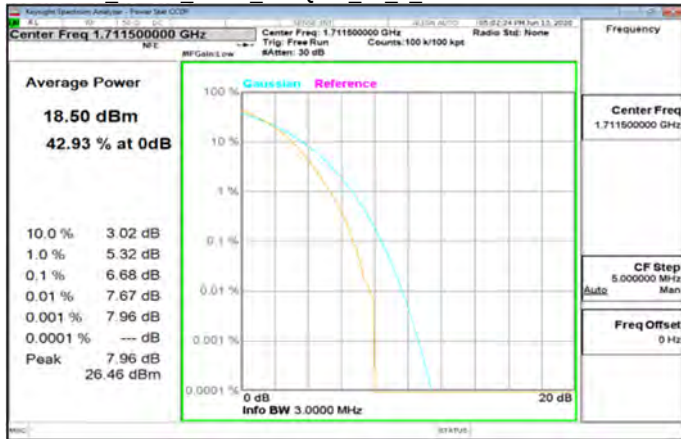


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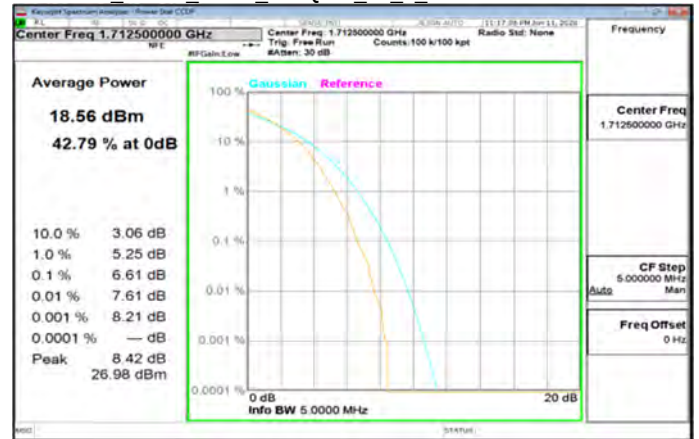
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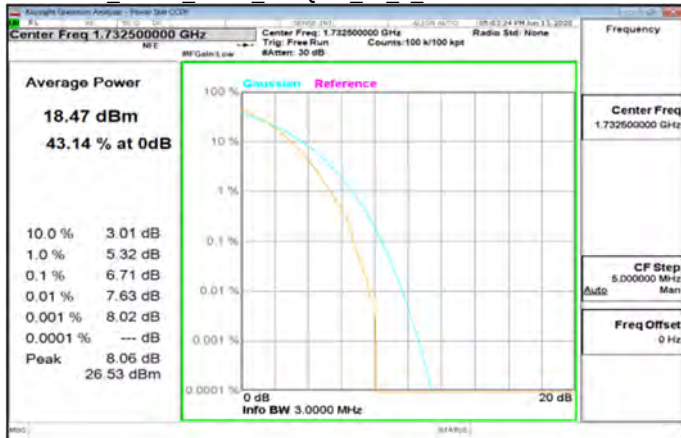
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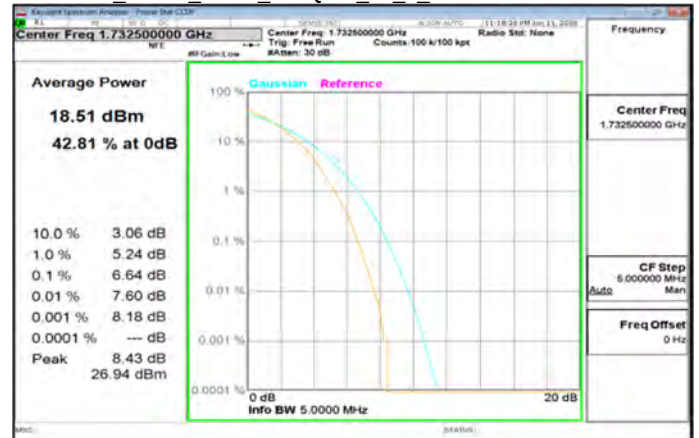
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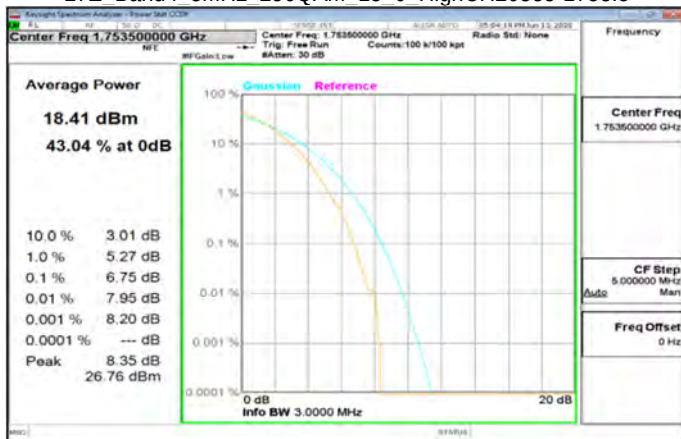
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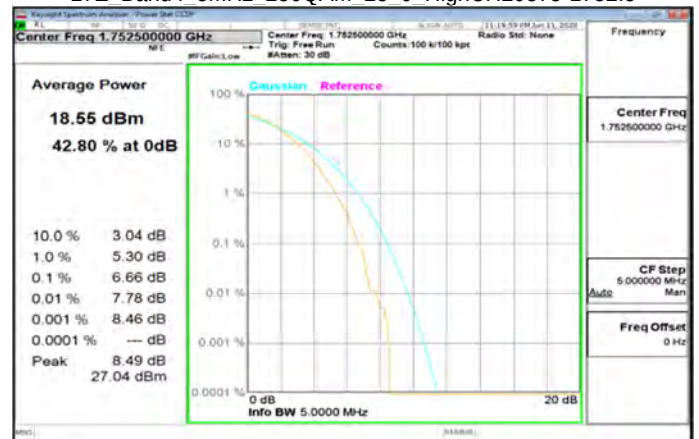
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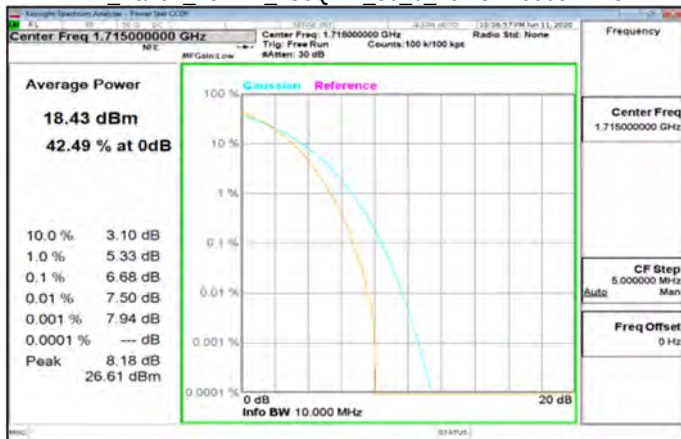


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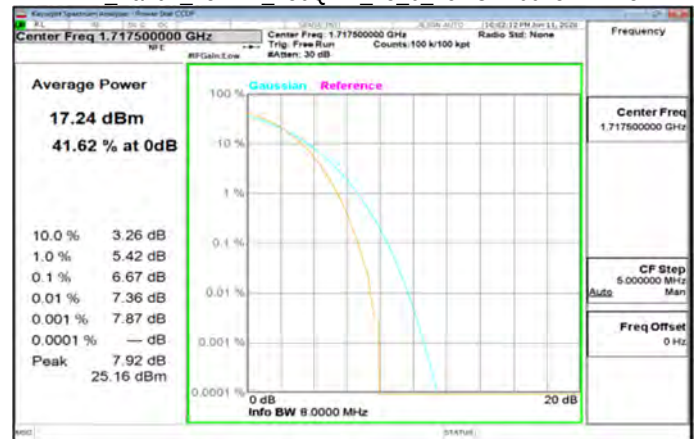
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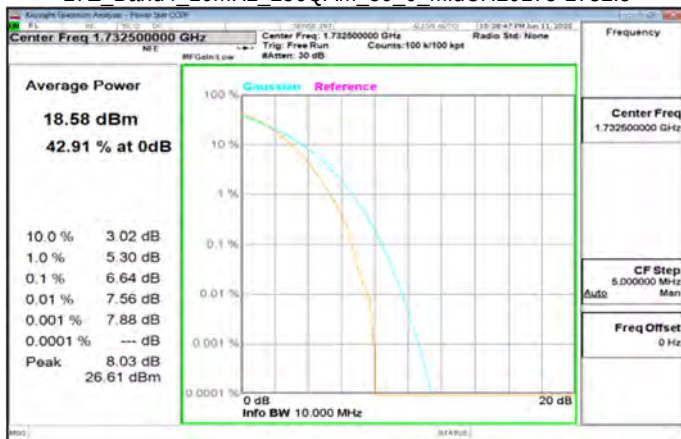
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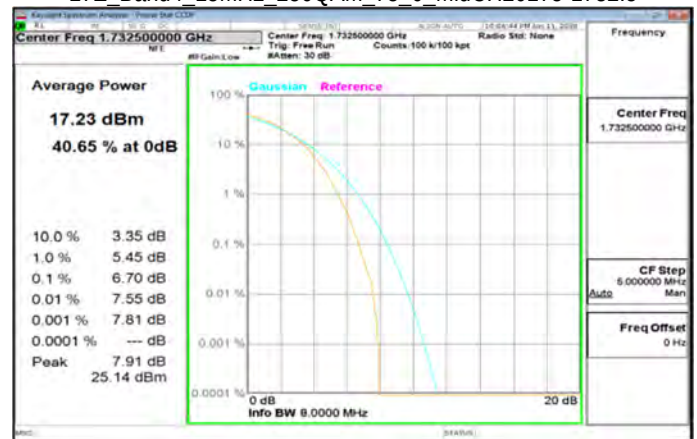
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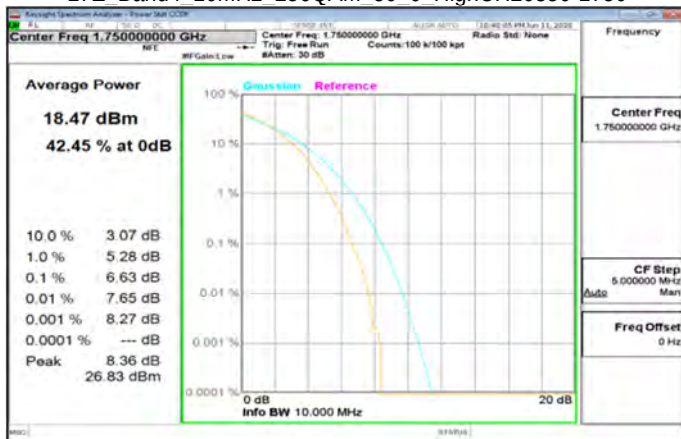
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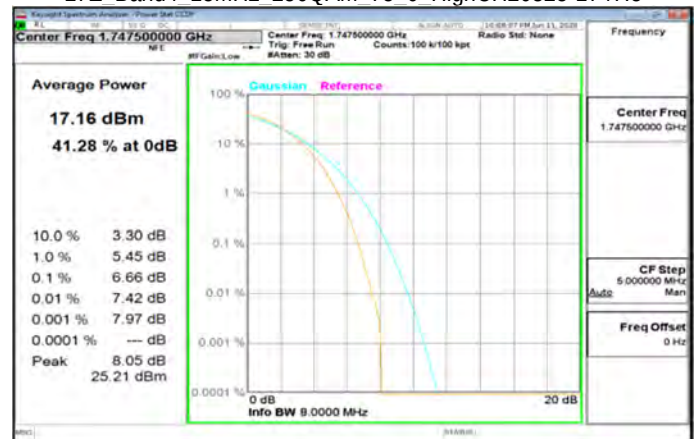
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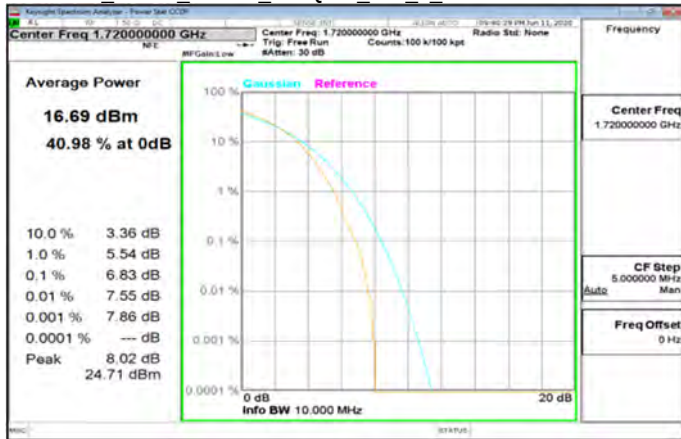


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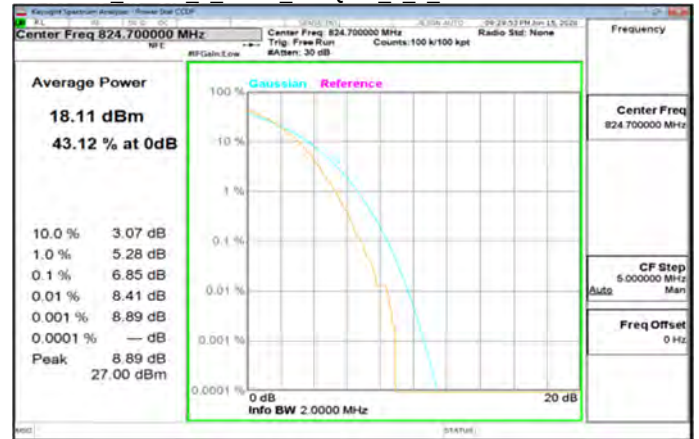
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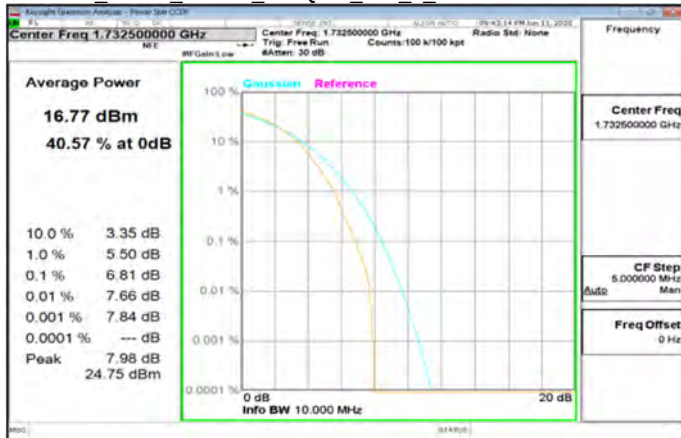
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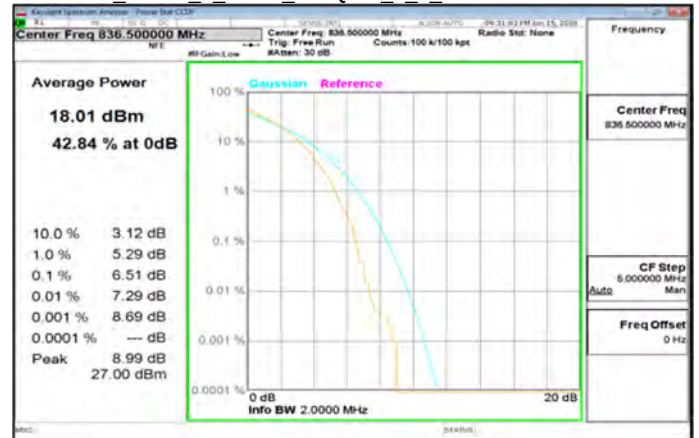
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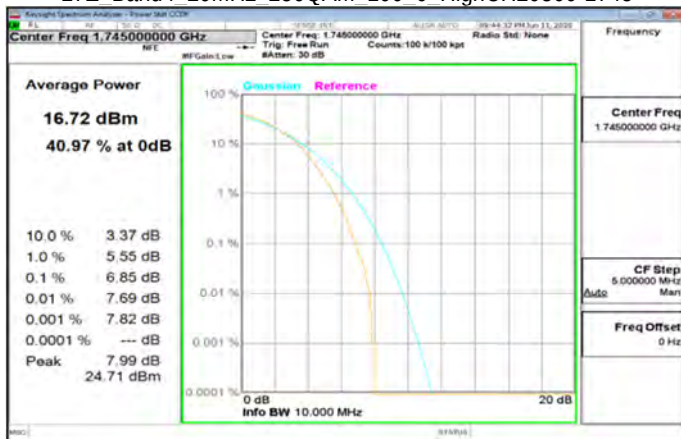
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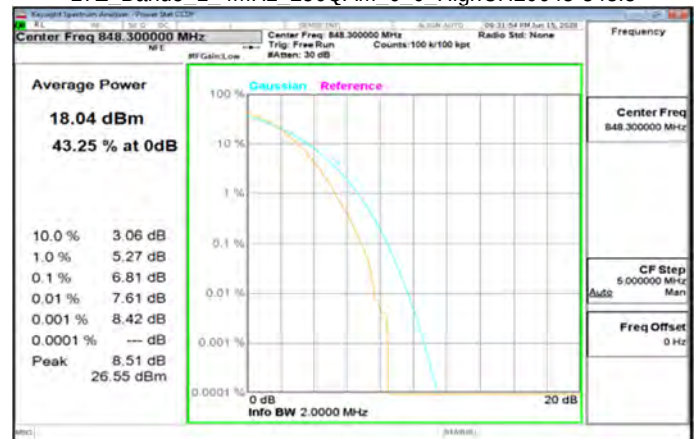
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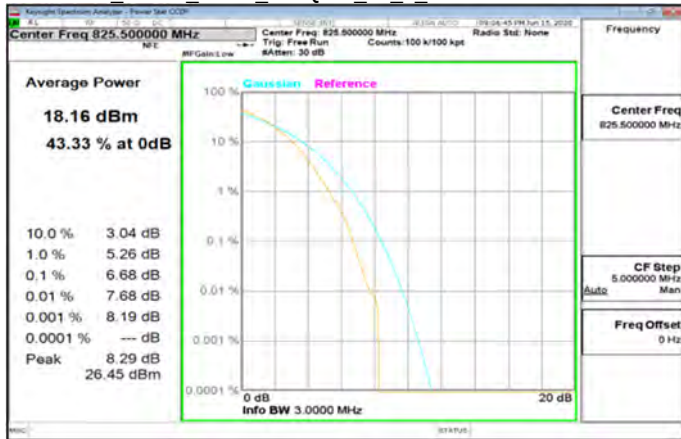


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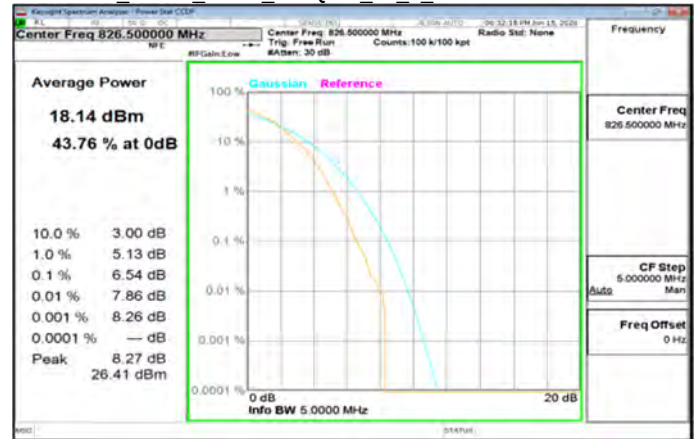
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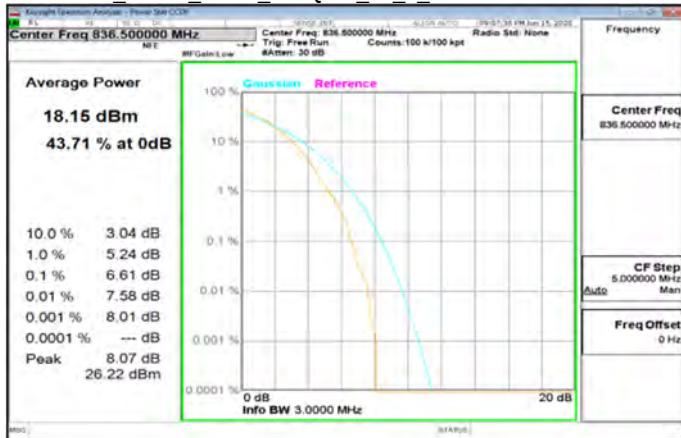
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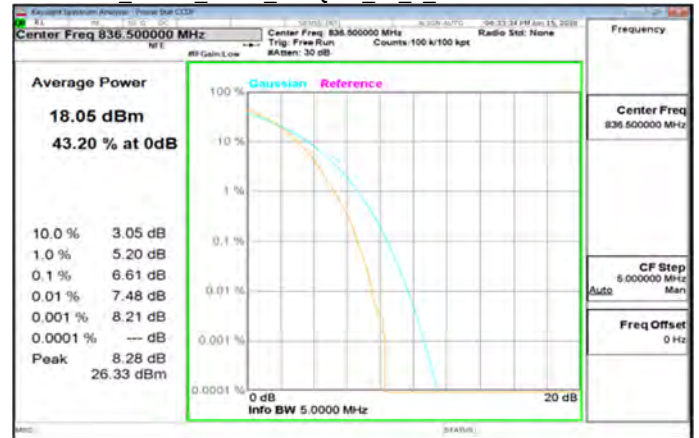
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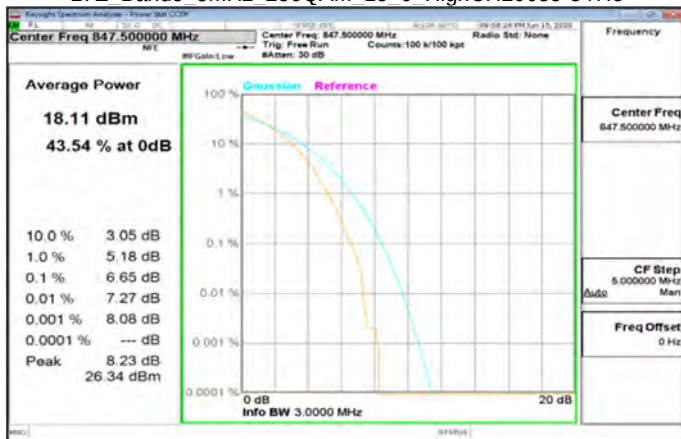
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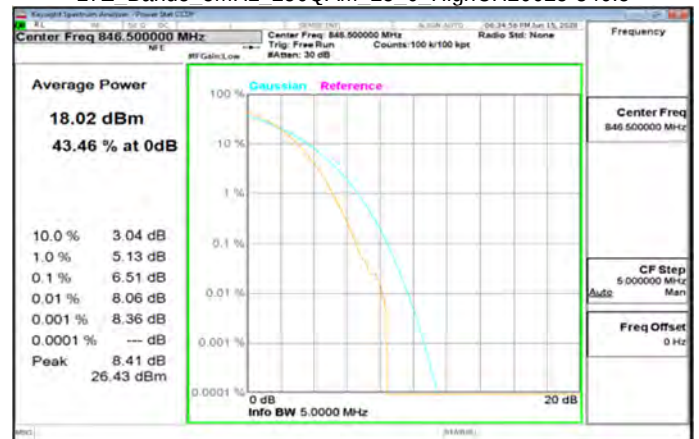
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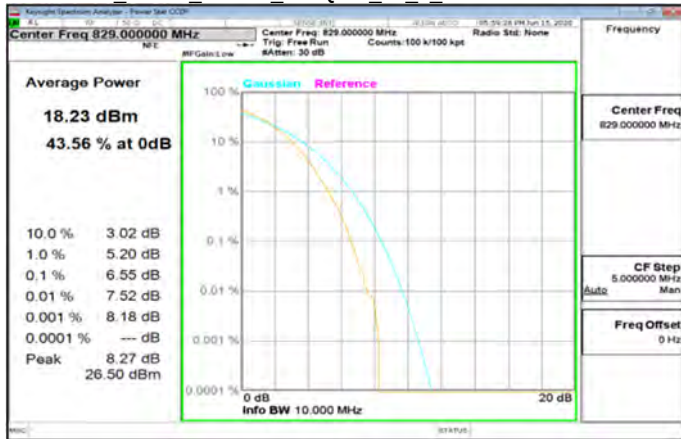


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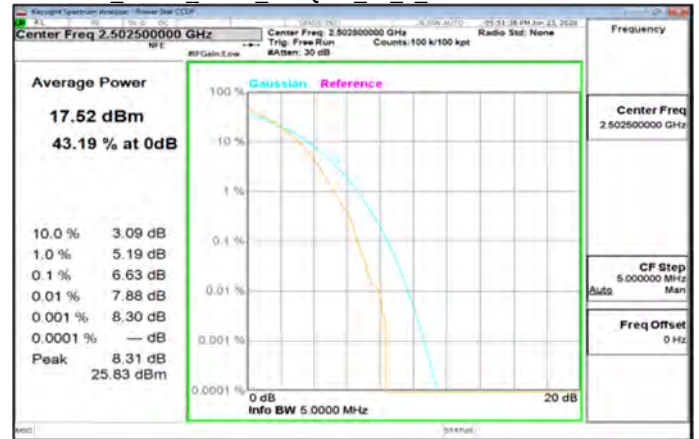
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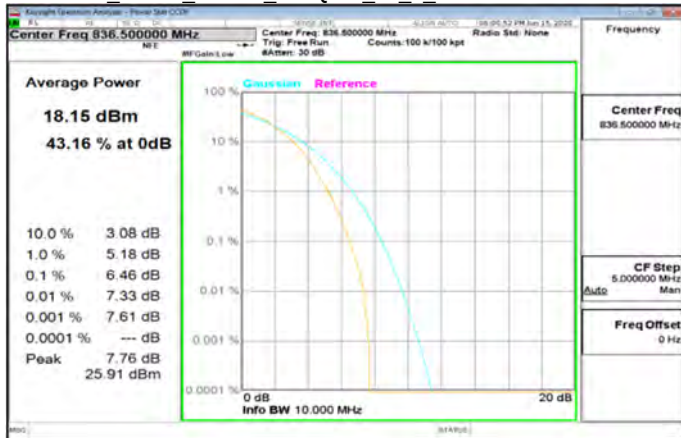
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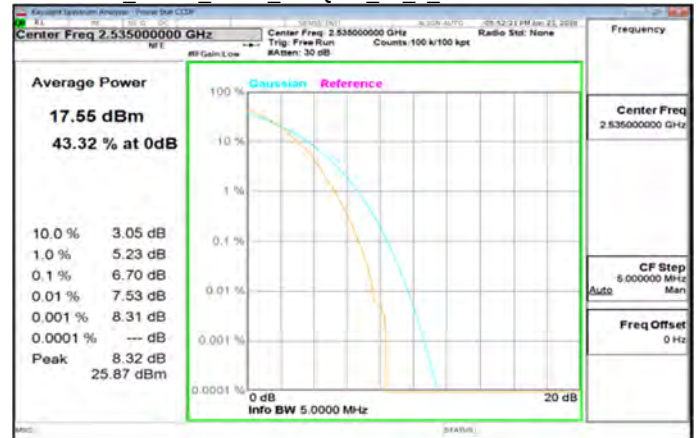
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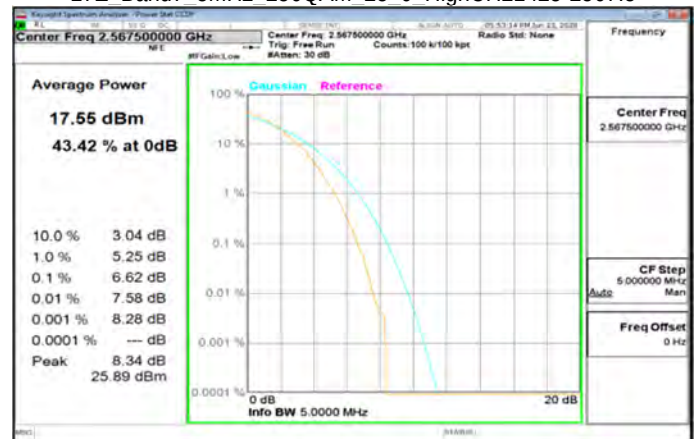
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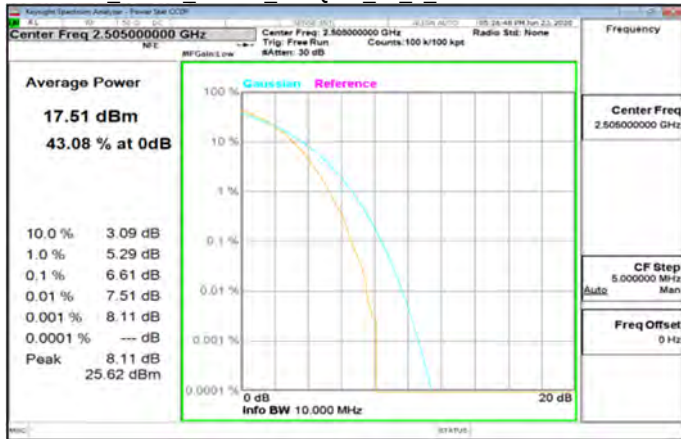


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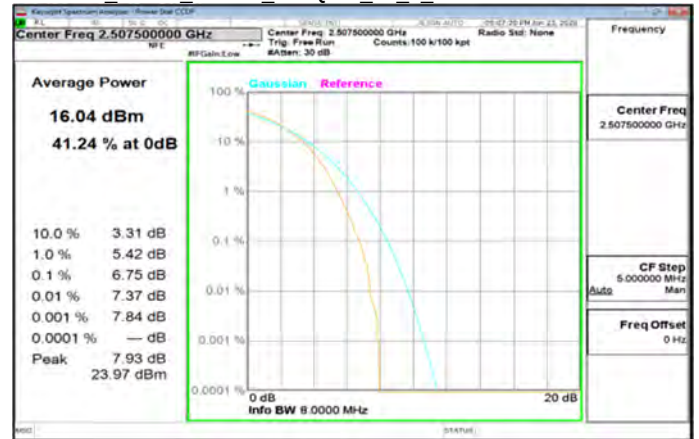
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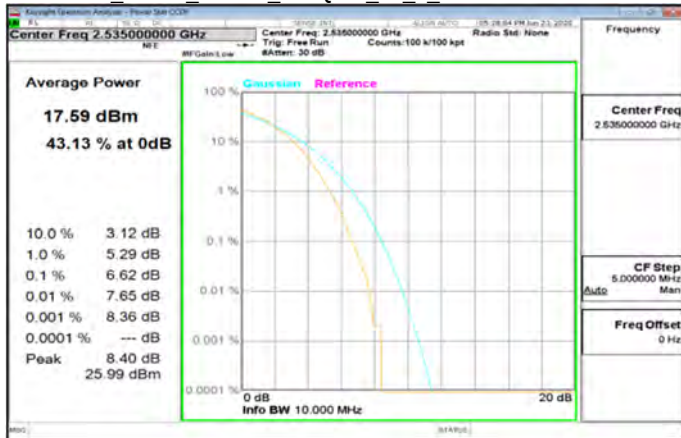
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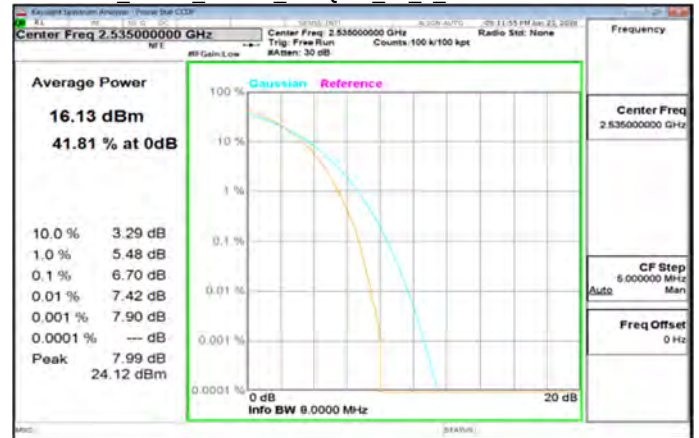
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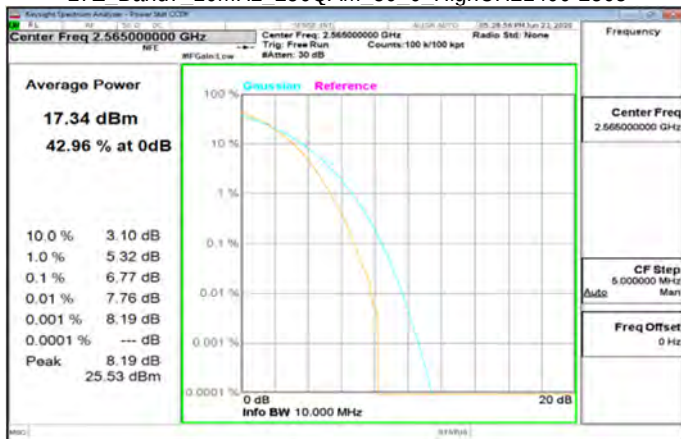
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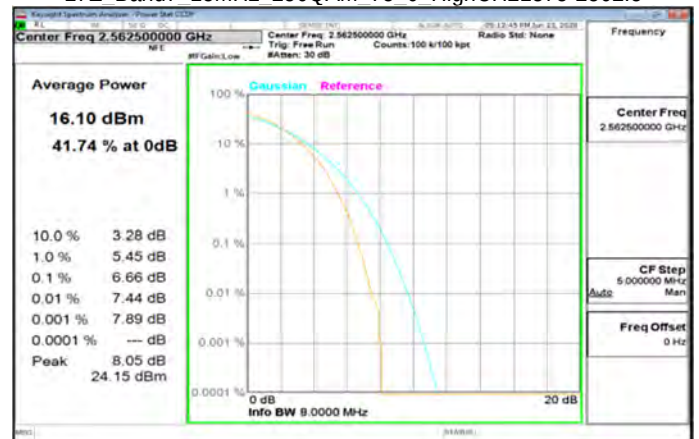
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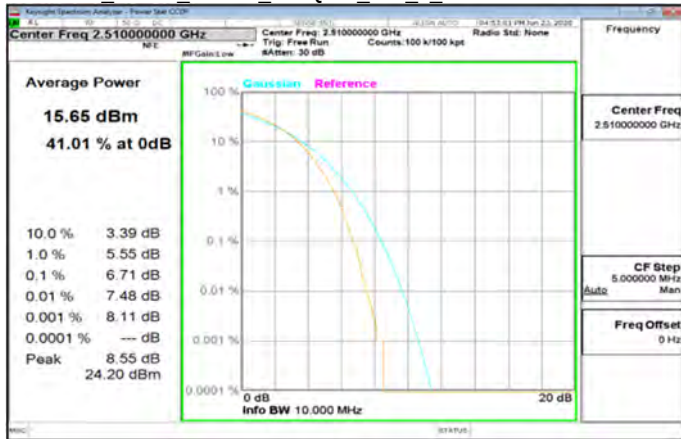


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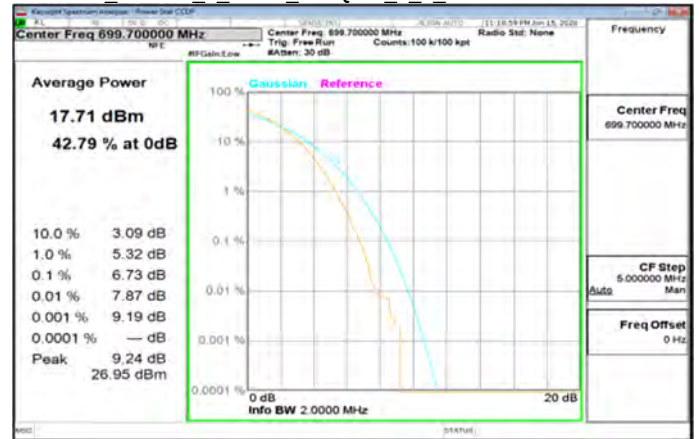
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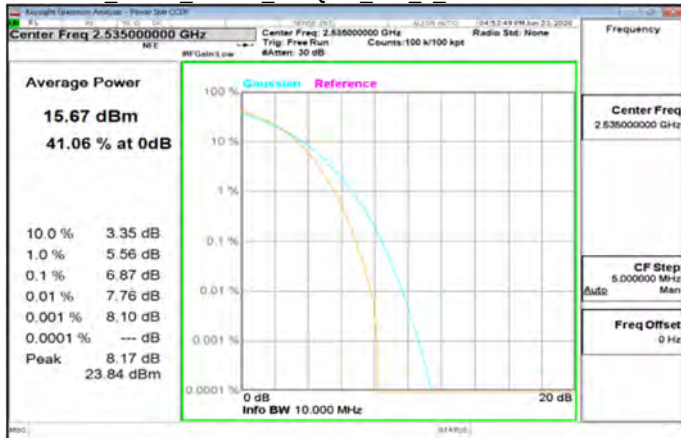
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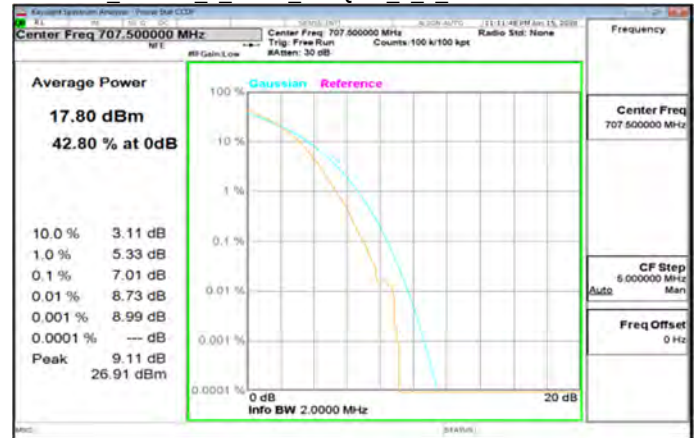
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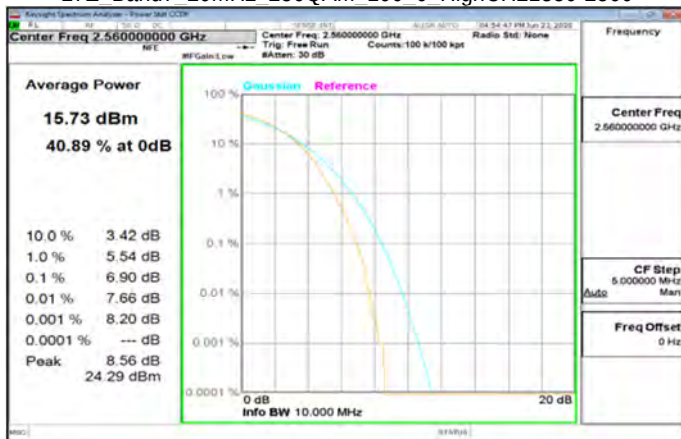
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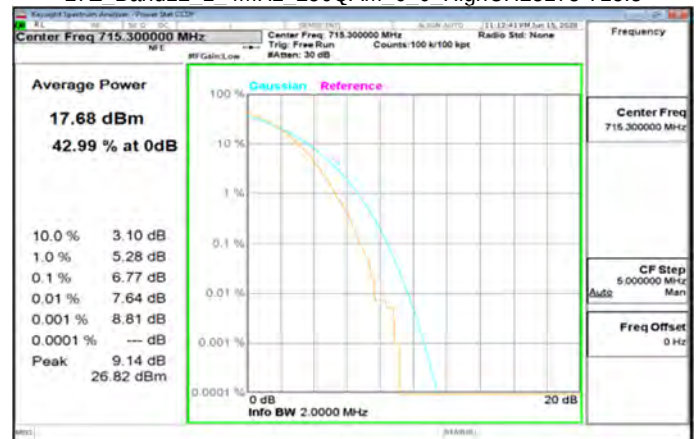
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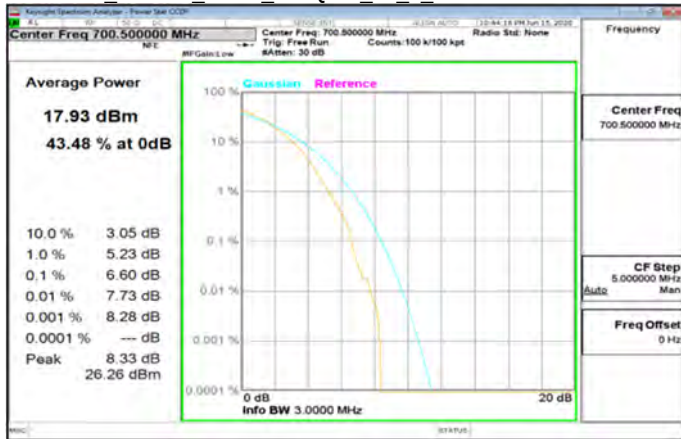


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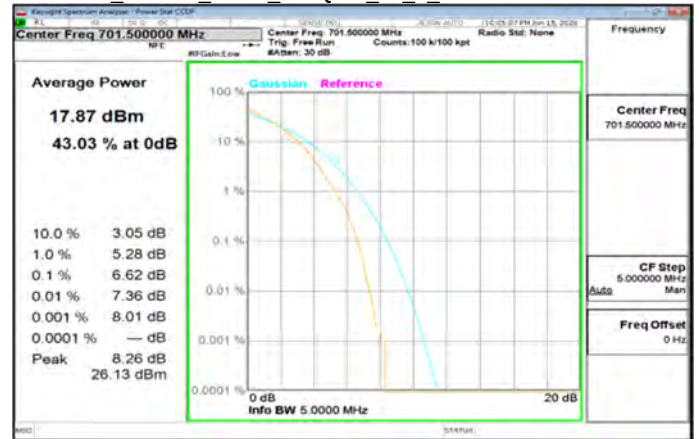
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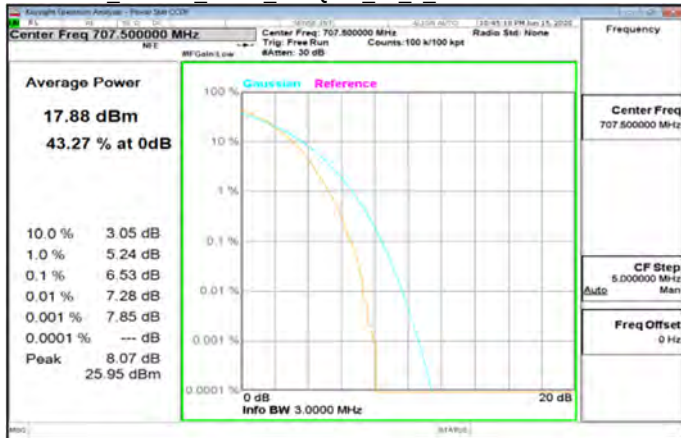
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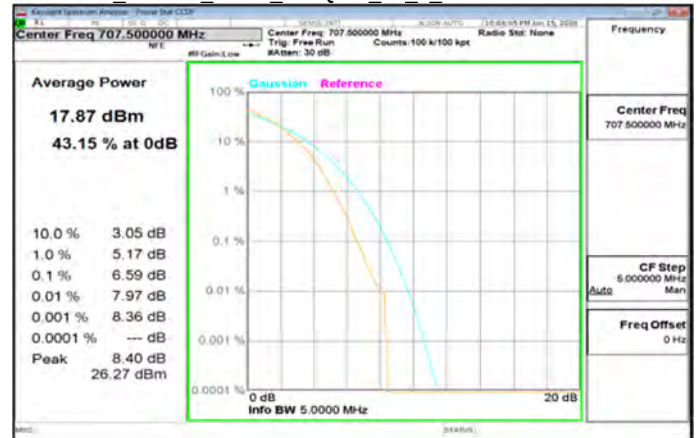
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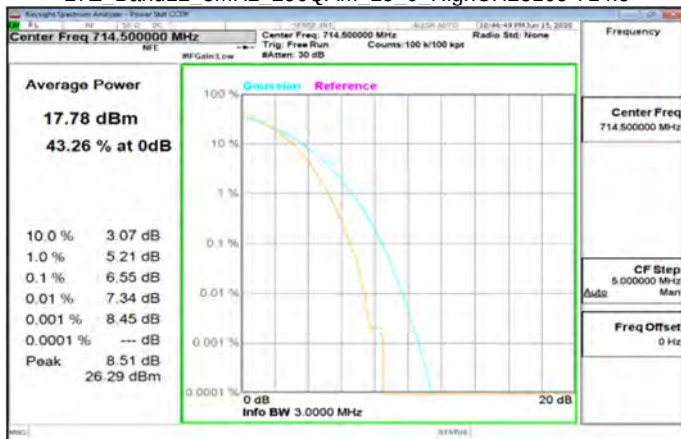
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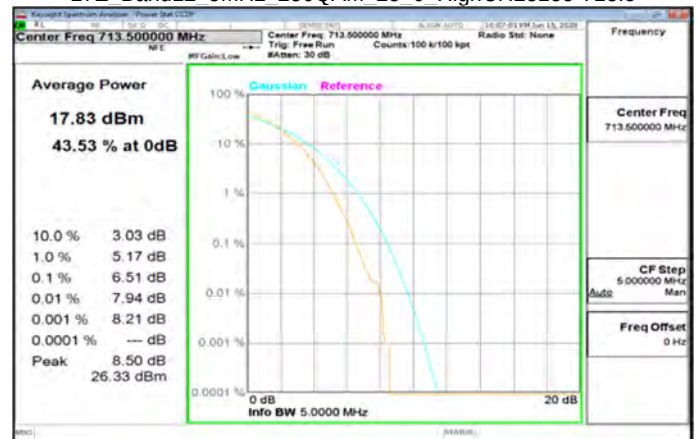
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LTE_Band12 3MHz 256QAM 15 0 HighCH23165-714.5



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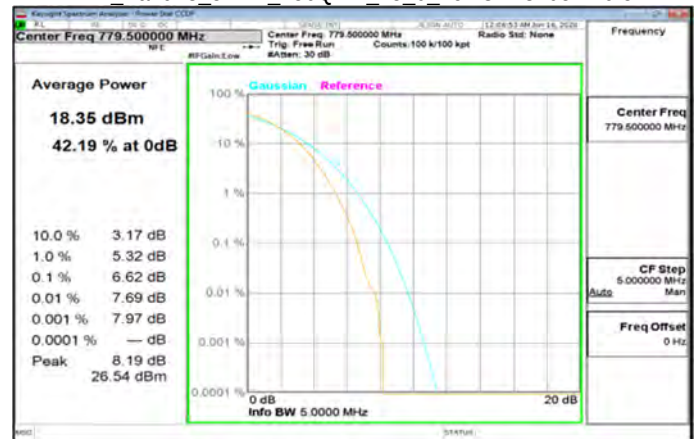
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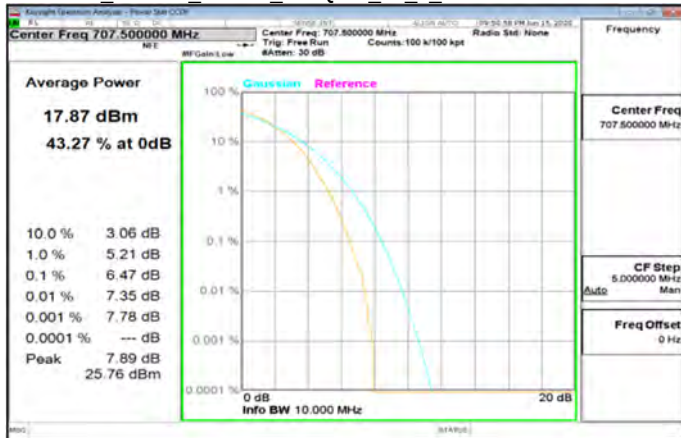
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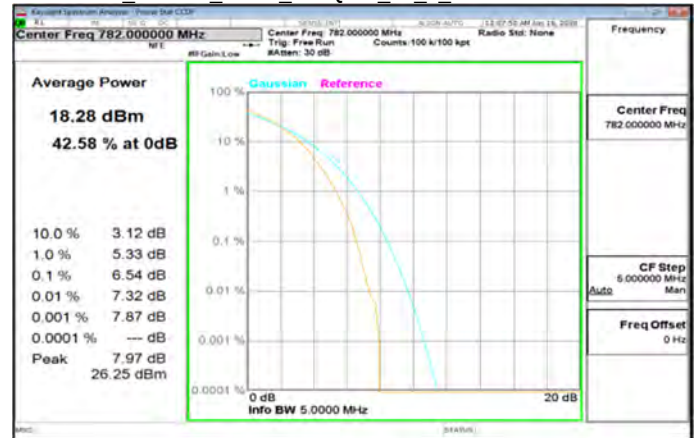
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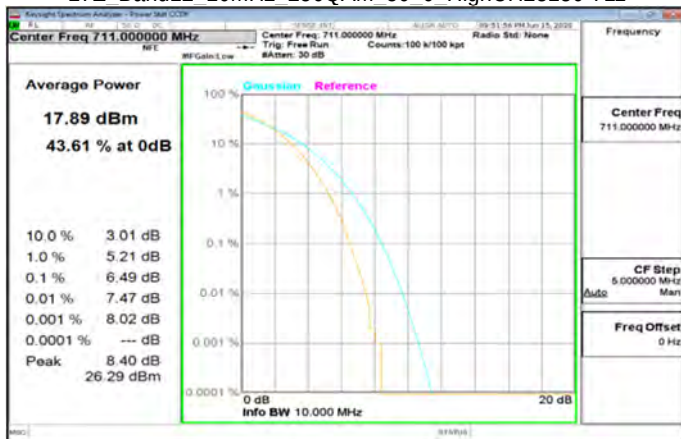
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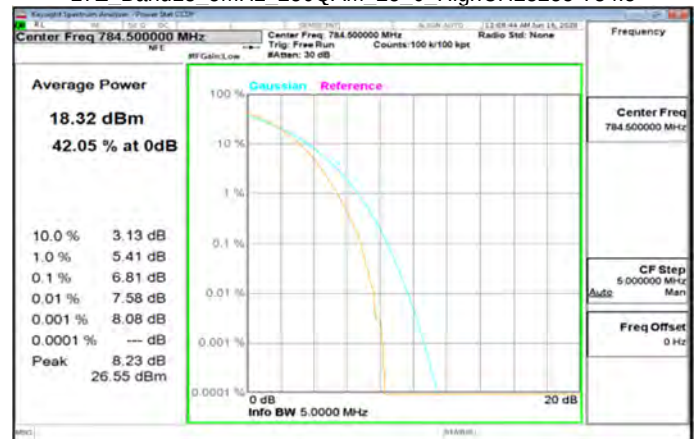
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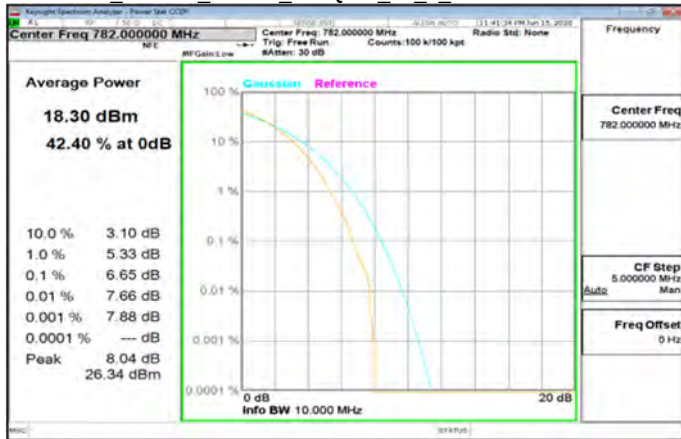


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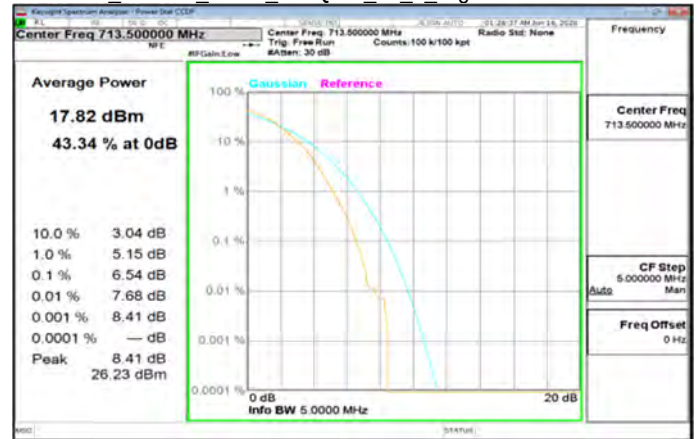
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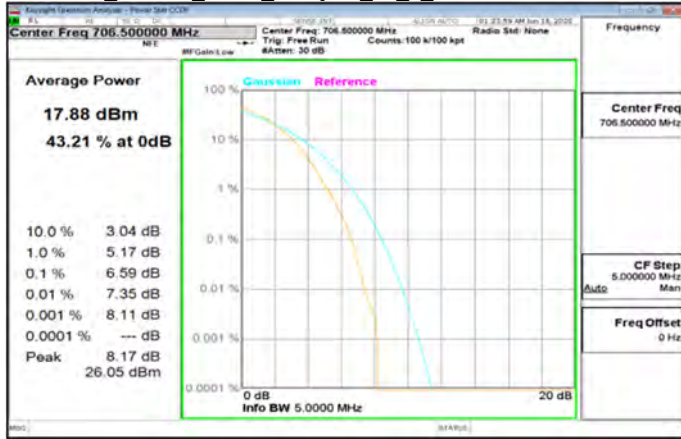
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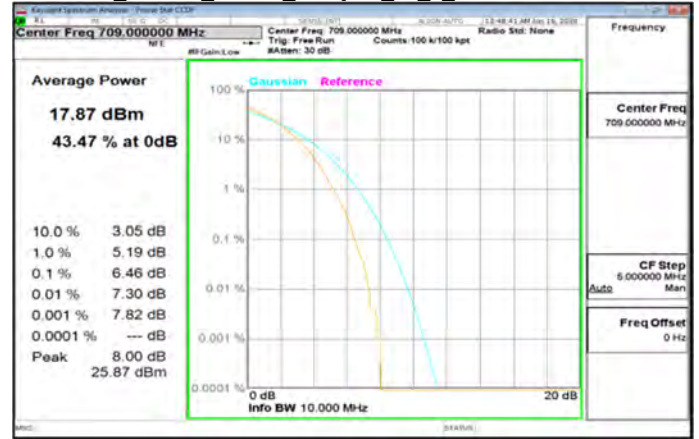
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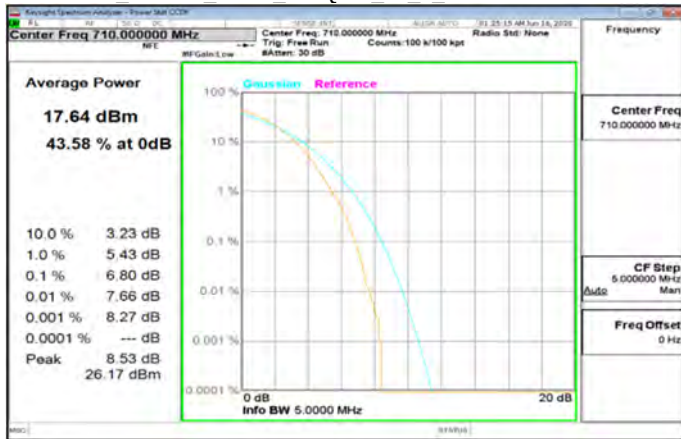
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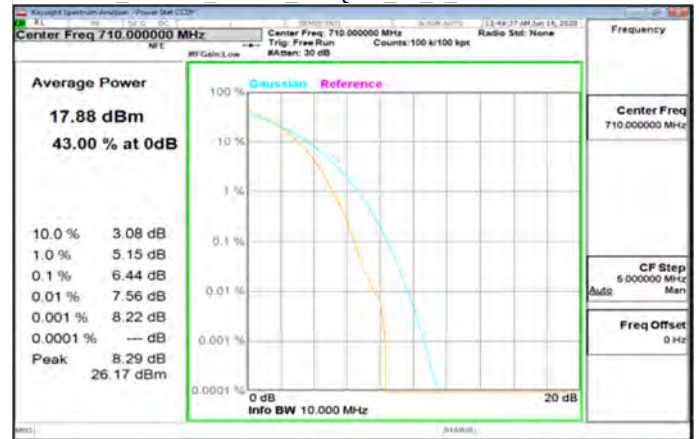
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LTE Band17 5MHz 256QAM 25 0 MidCH23790-710



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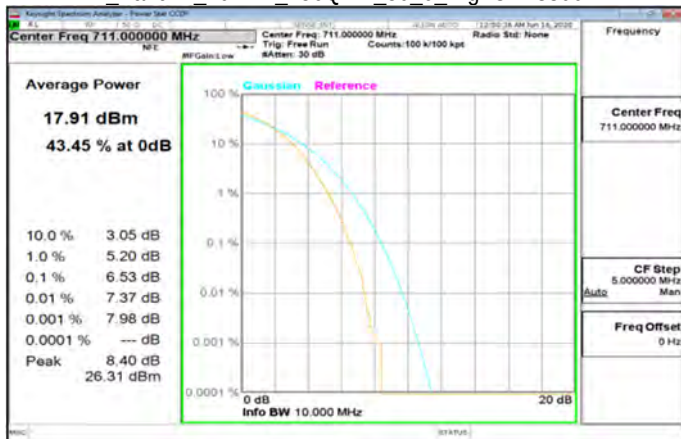


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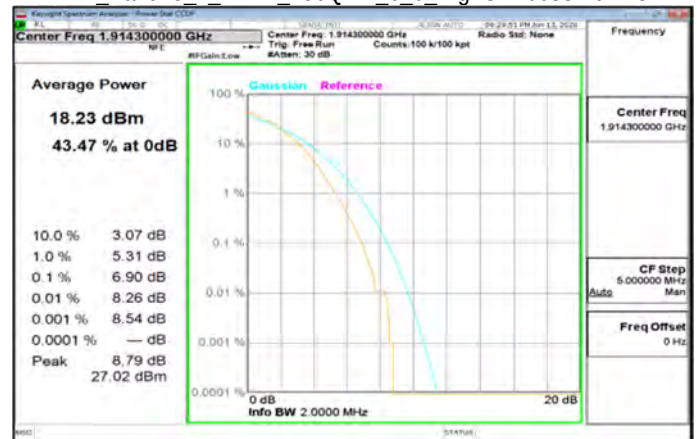
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LTE Band17 10MHz_256QAM_50_0_HighCH23800-711



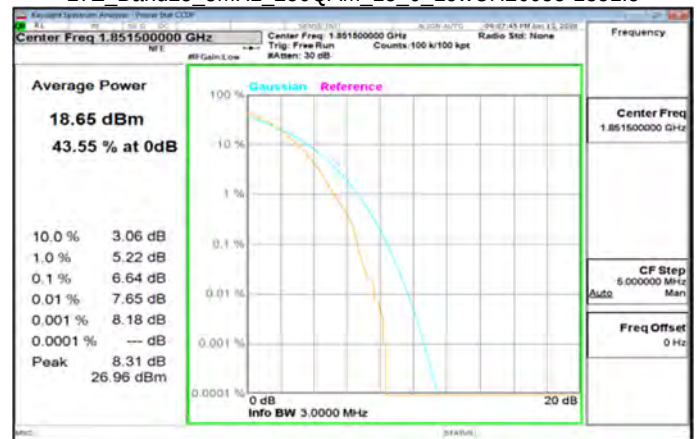
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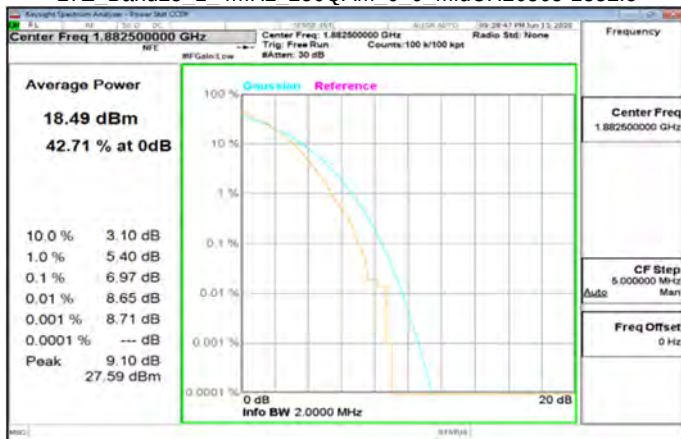
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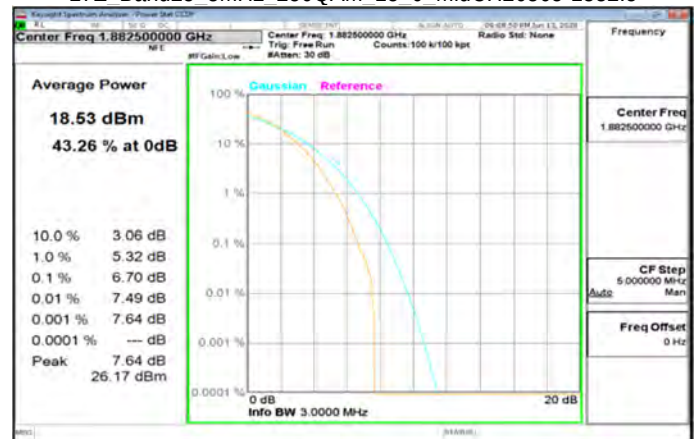
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LTE Band25 1 4MHz_256QAM_6_0_MidCH26365-1882.5



LTE Band25 3MHz_256QAM_15_0_MidCH26365-1882.5

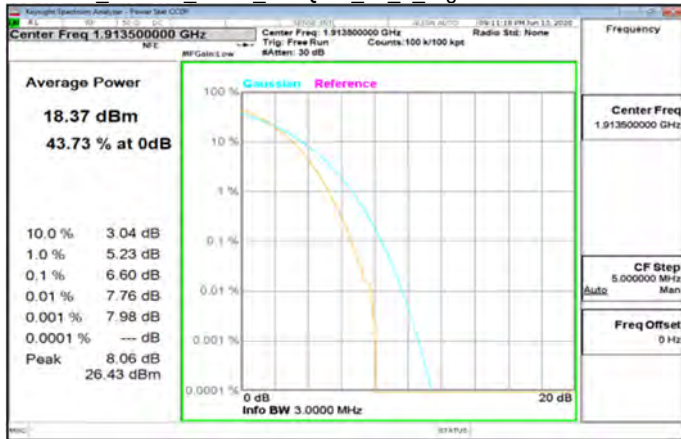


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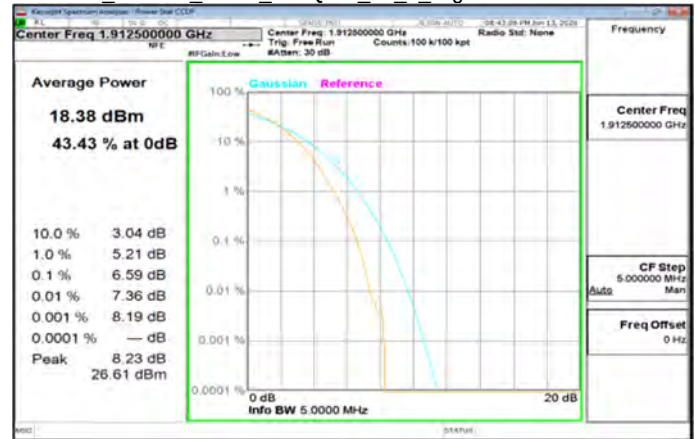
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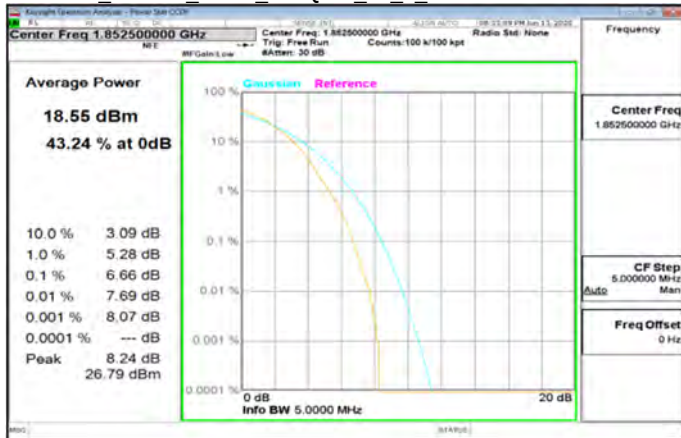
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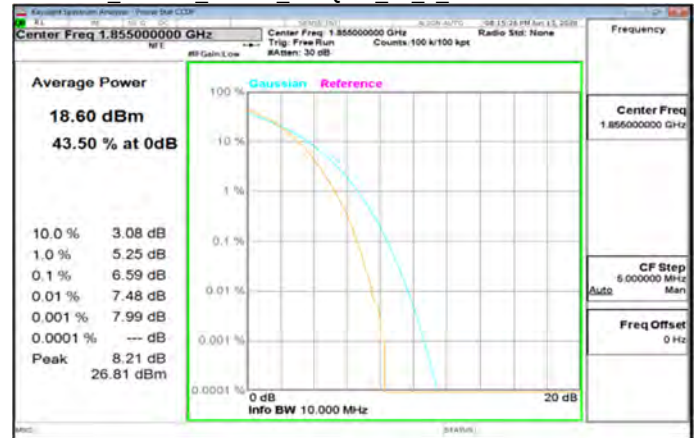
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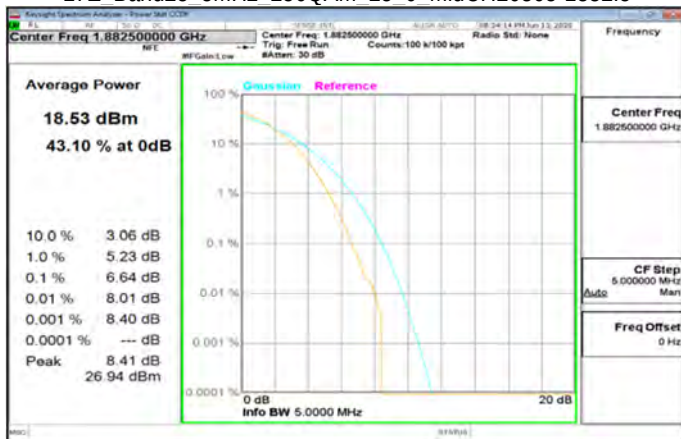
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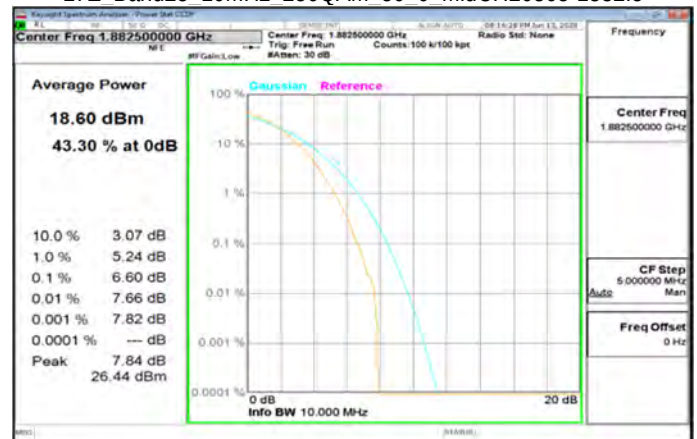
LTE Band25 10MHz 256QAM 50 0 LowCH26090-1855



LTE Band25 5MHz 256QAM 25 0 MidCH26365-1882.5



LTE Band25 10MHz 256QAM 50 0 MidCH26365-1882.5

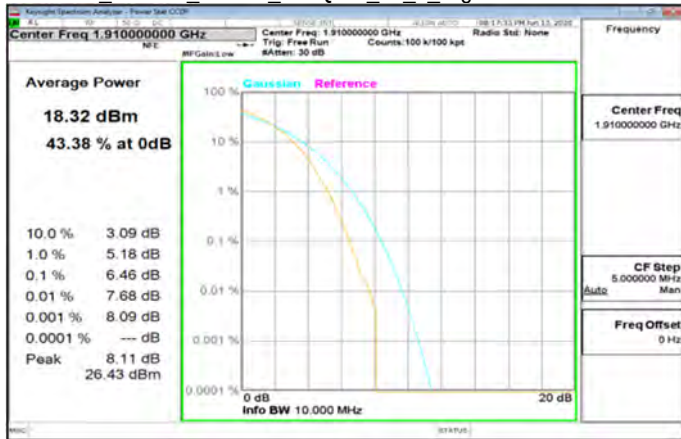


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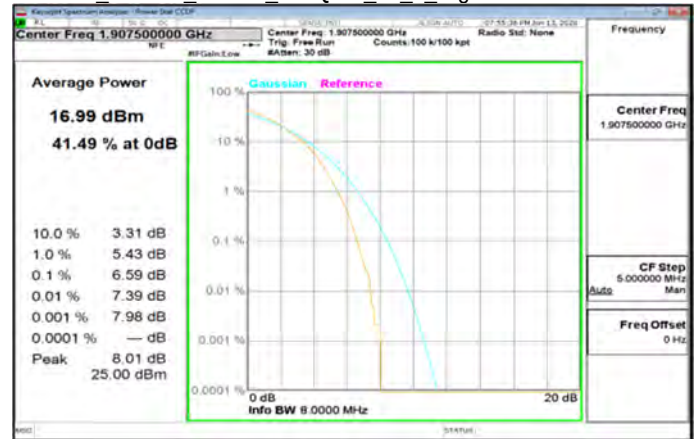
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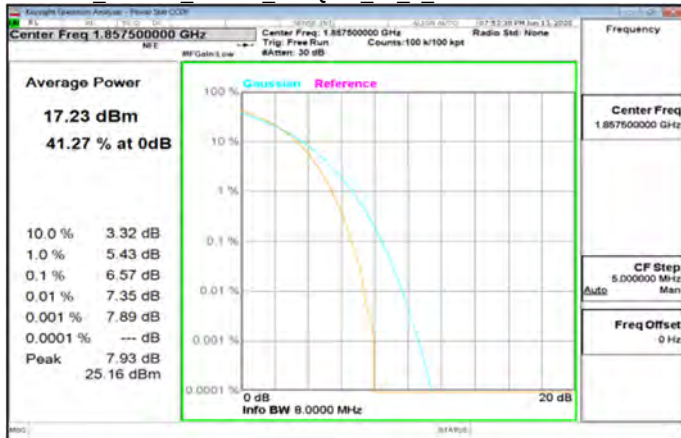
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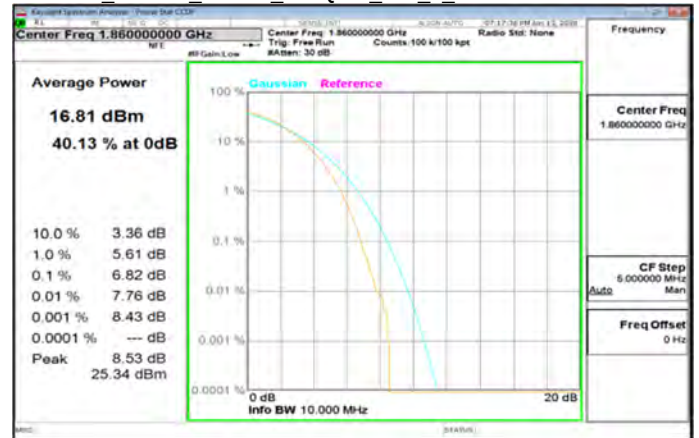
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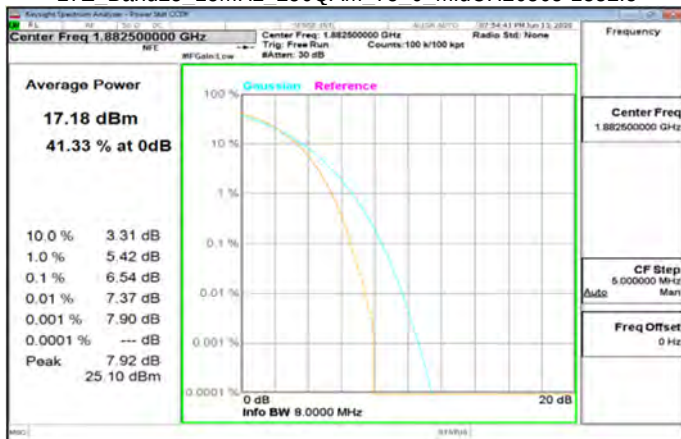
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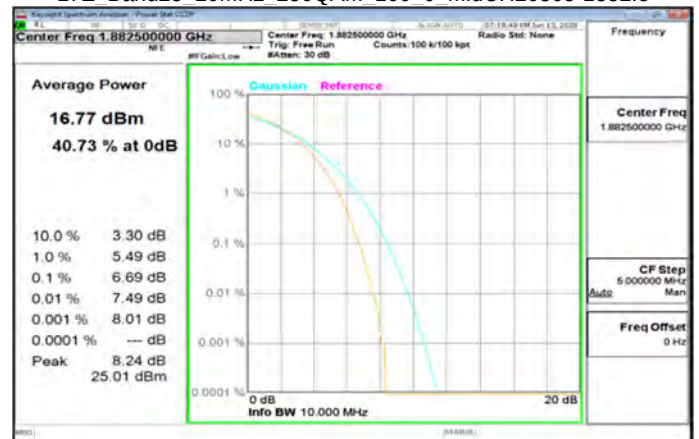
LTE_Band25_20MHz_256QAM_100_0_LowCH26140-1860



LTE_Band25_15MHz_256QAM_75_0_MidCH26365-1882.5



LTE_Band25_20MHz_256QAM_100_0_MidCH26365-1882.5

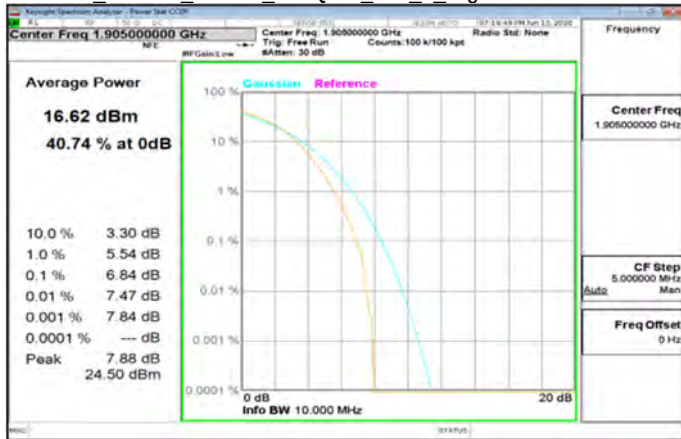


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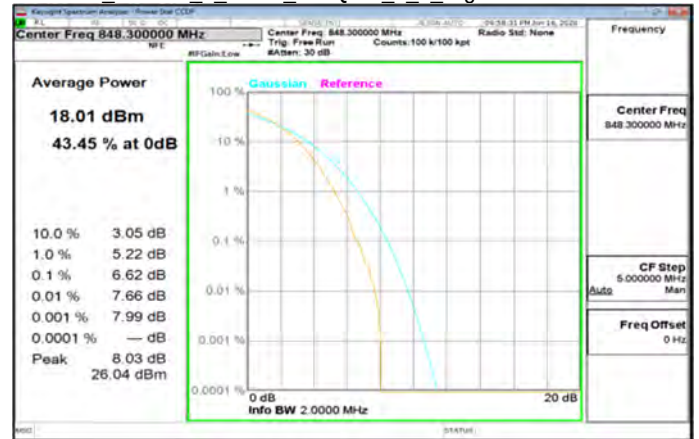
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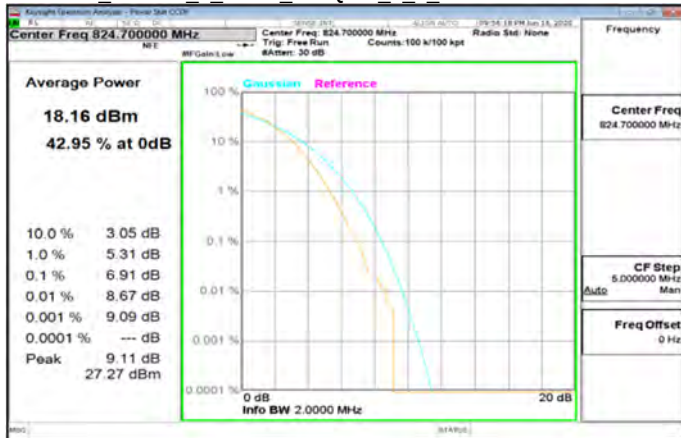
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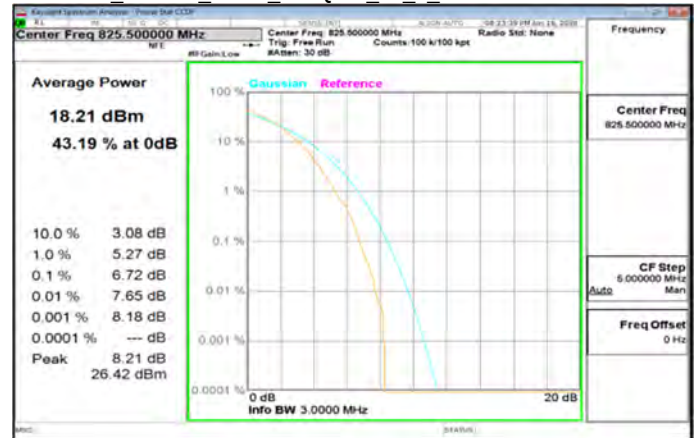
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LTE Band26 1 4MHz 256QAM 6 0 LowCH26797-824.7



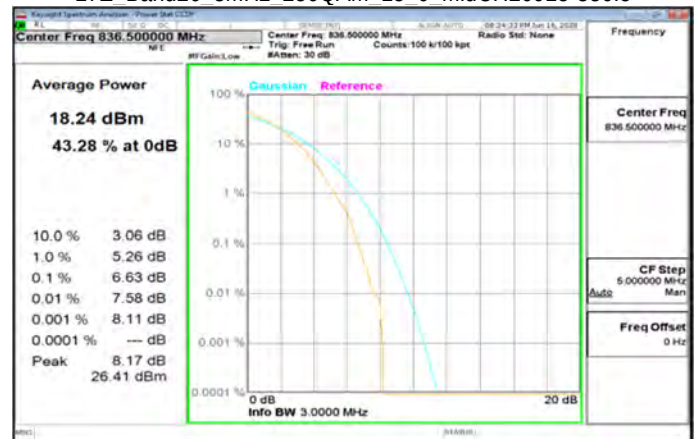
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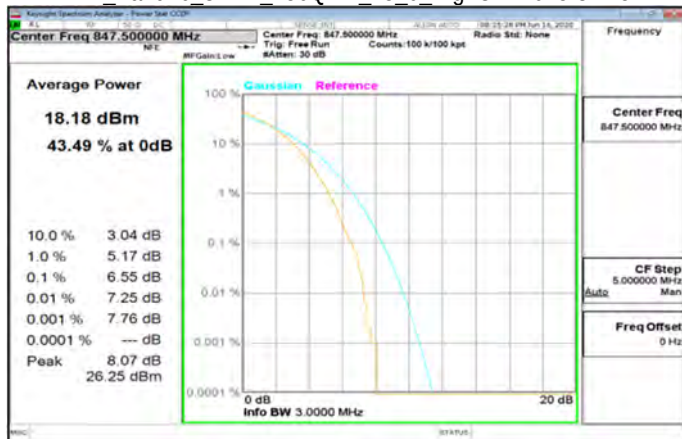


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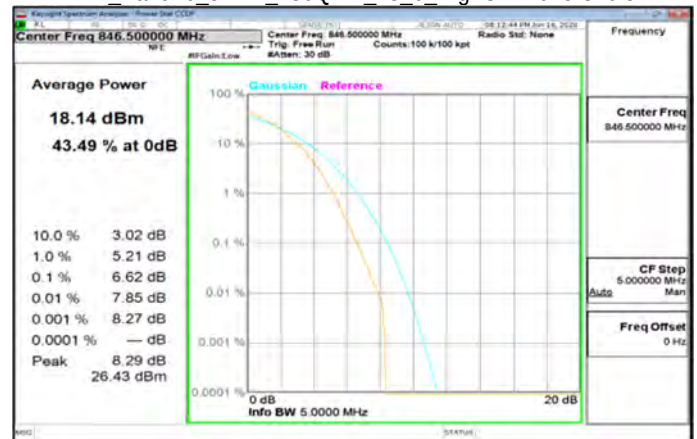
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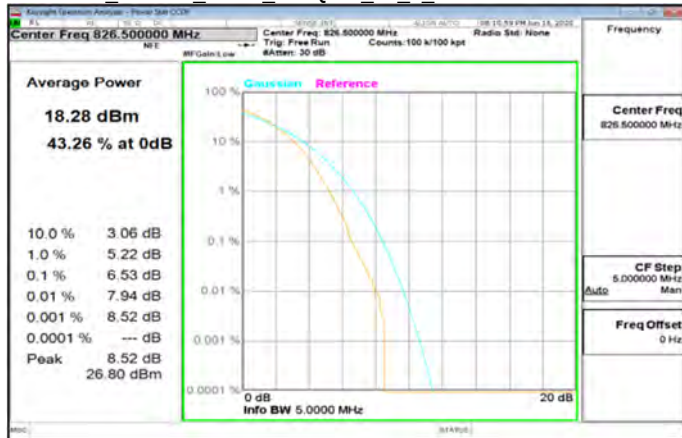
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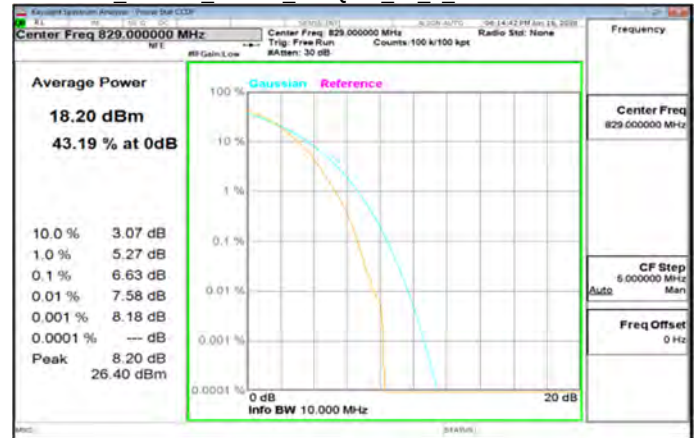
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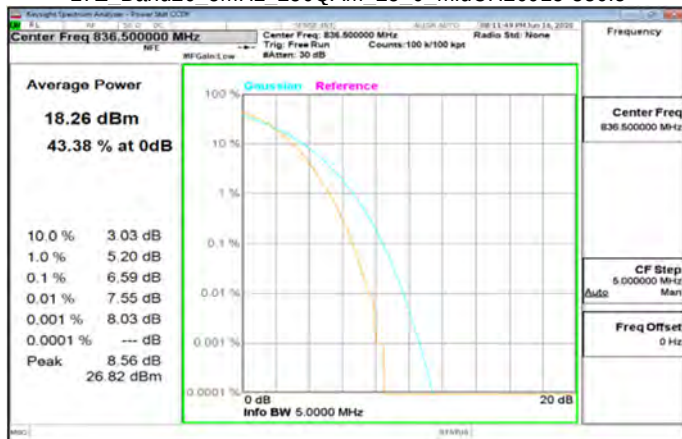
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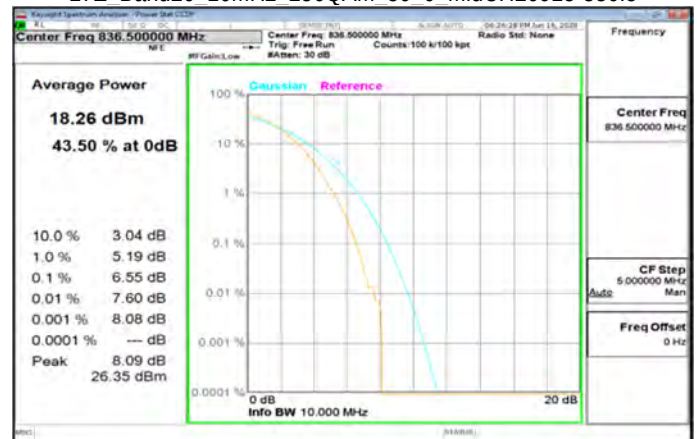
LTE_Band26 10MHz_256QAM_50_0_LowCH26840-829



LTE_Band26 5MHz_256QAM_25_0_MidCH26915-836.5



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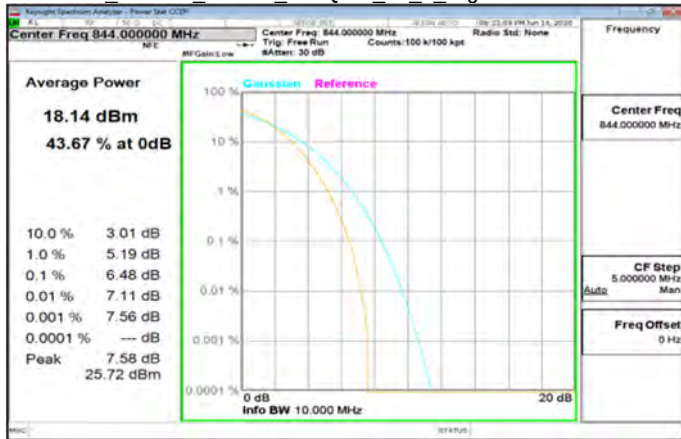


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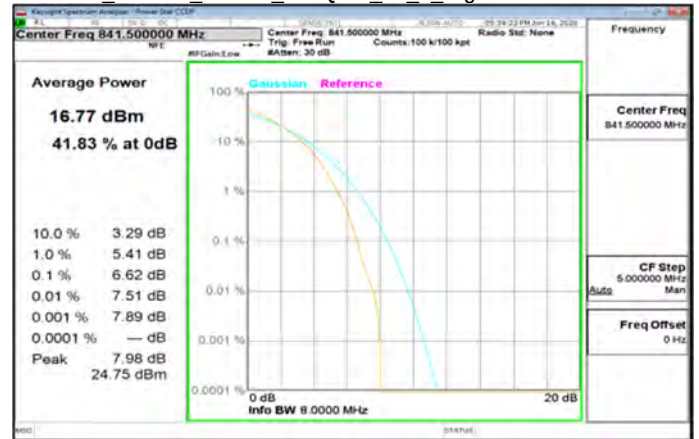
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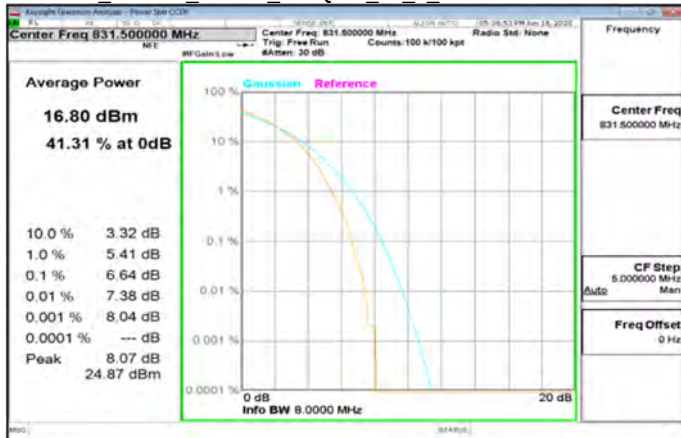
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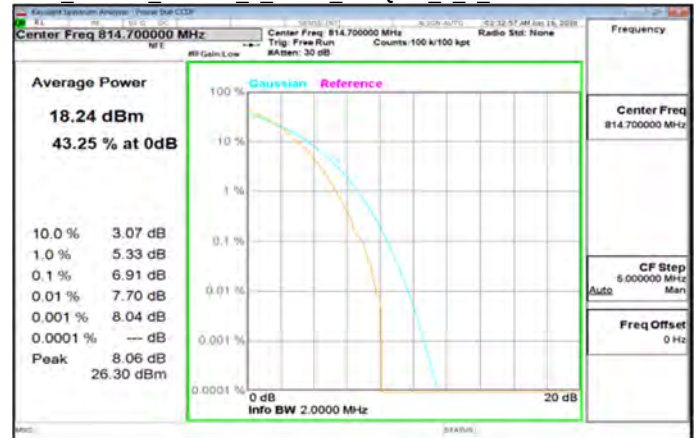
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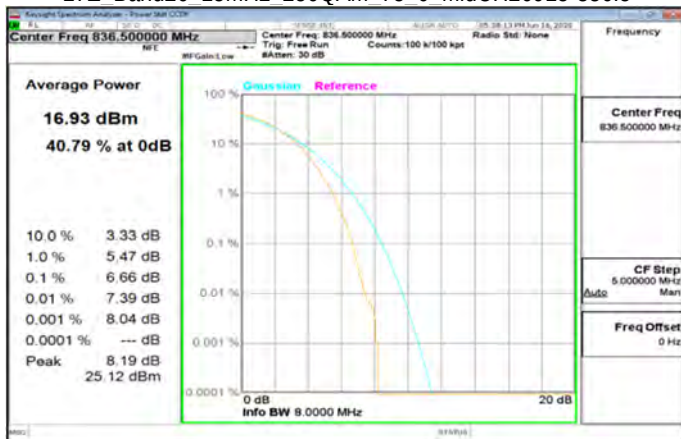
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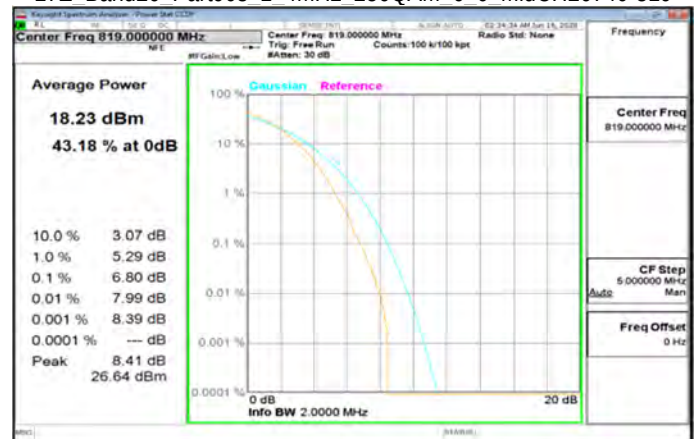
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LTE Band26 Part90s 1 4MHz 256QAM 6 0 MidCH26740-819

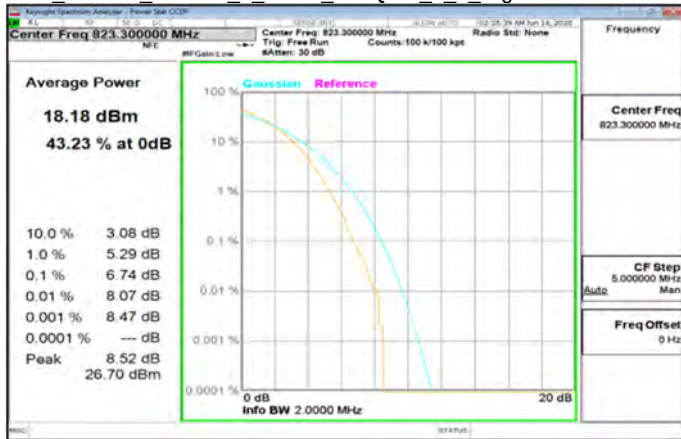


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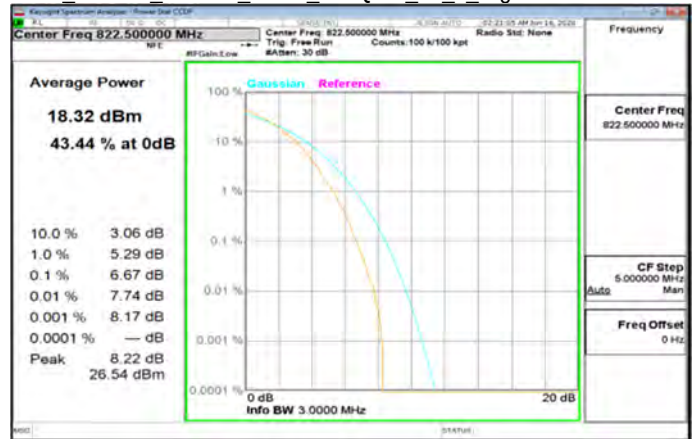
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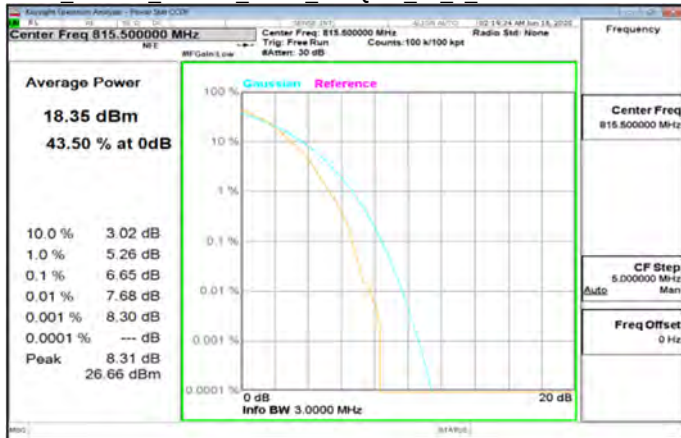
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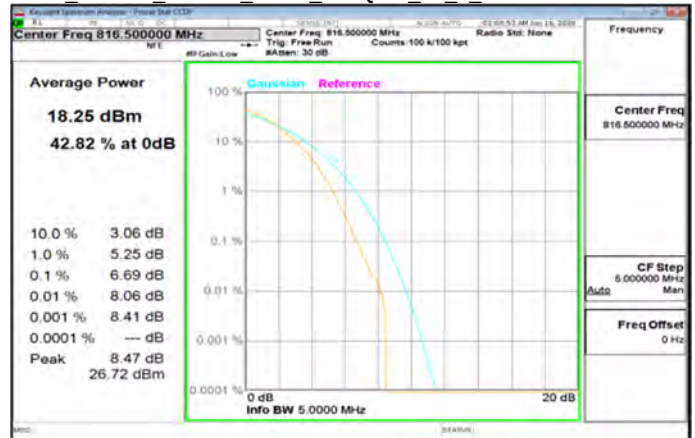
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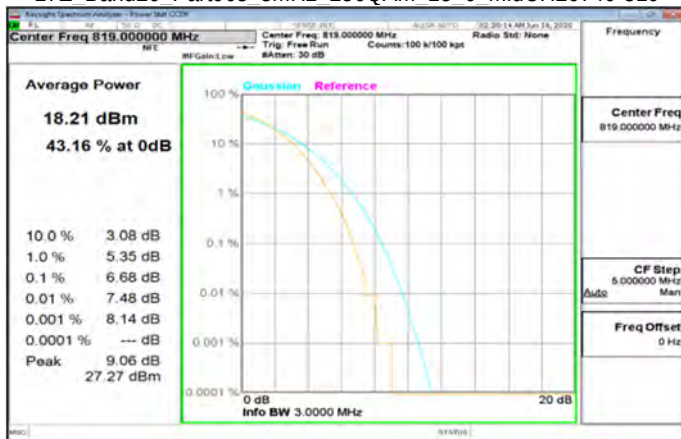
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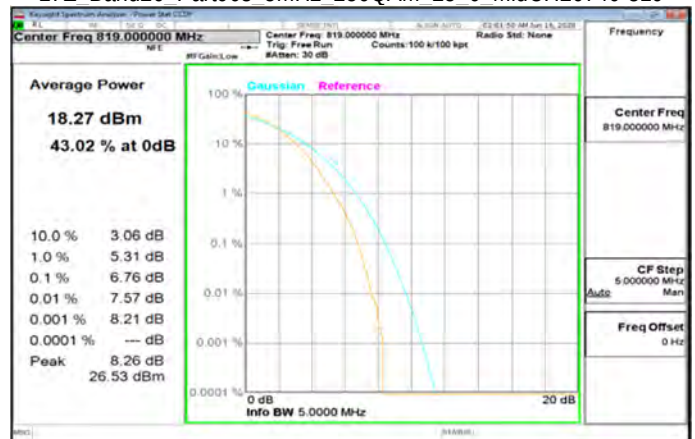
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LTE_Band26_Part90s_3MHz_256QAM_15_0_MidCH26740-819



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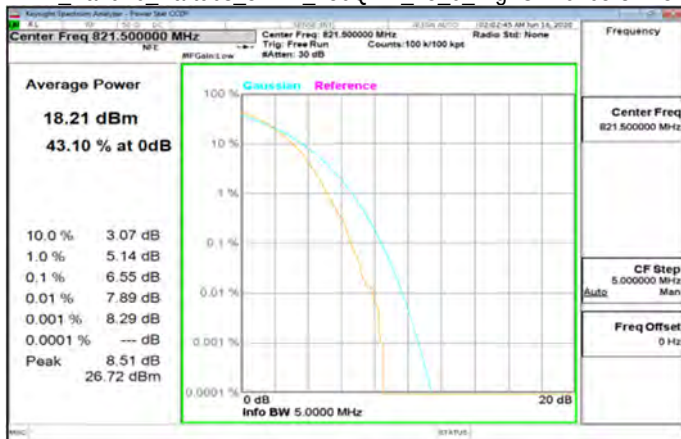


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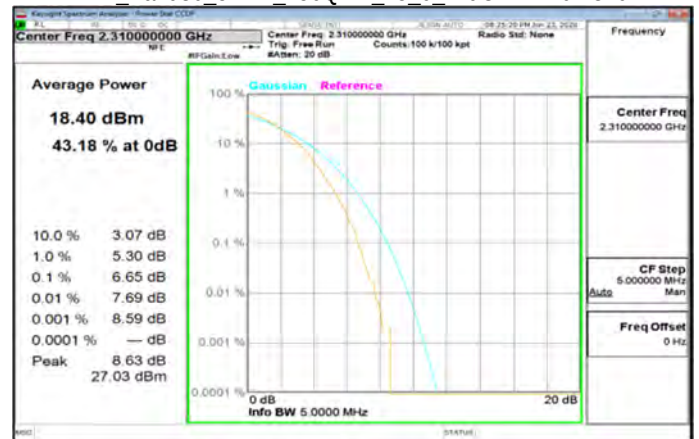
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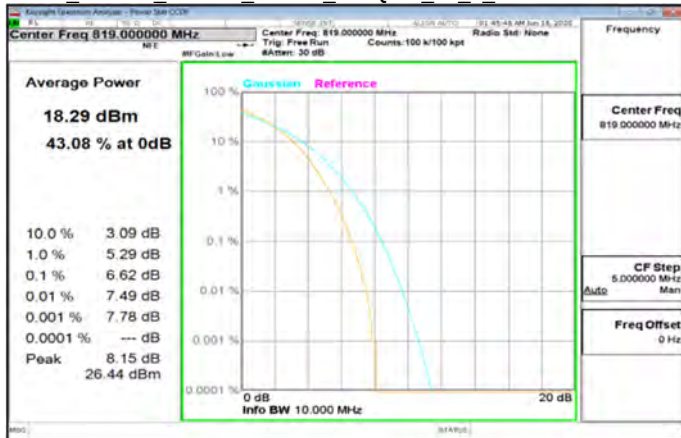
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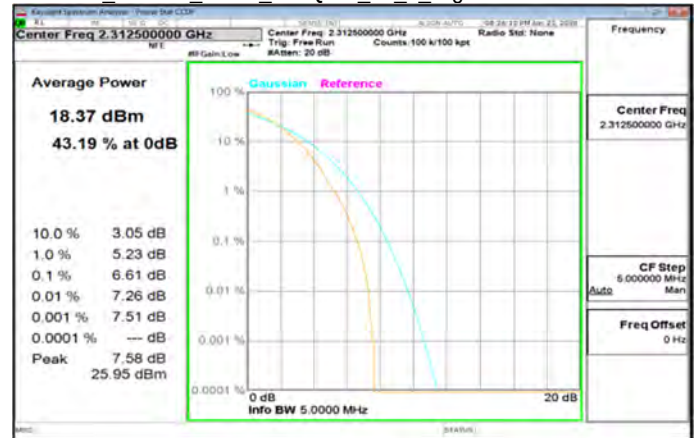
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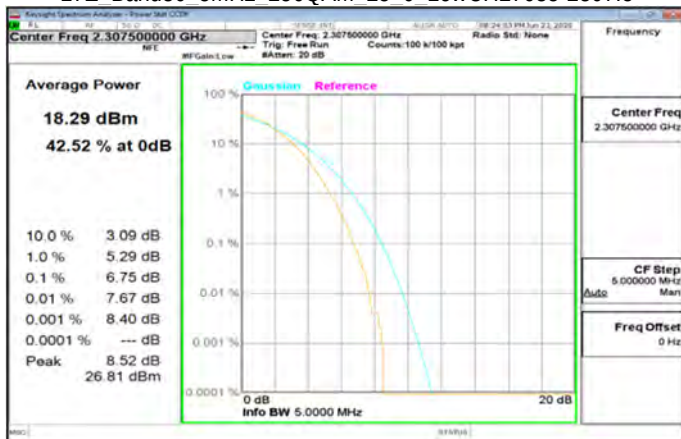
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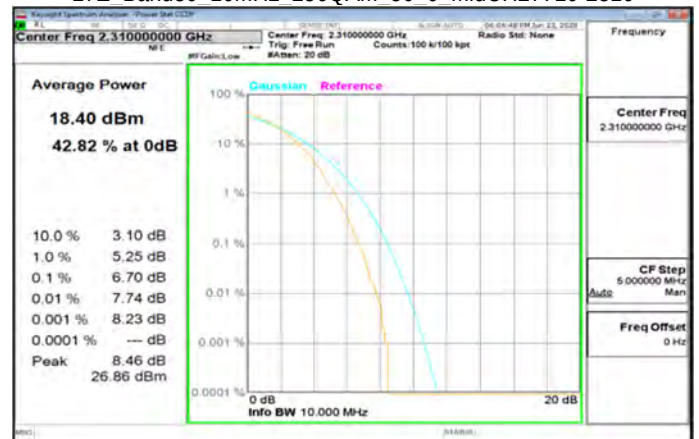
LTE Band30 5MHz 256QAM 25 0 HighCH27735-2312.5



LTE Band30 5MHz 256QAM 25 0 LowCH27685-2307.5



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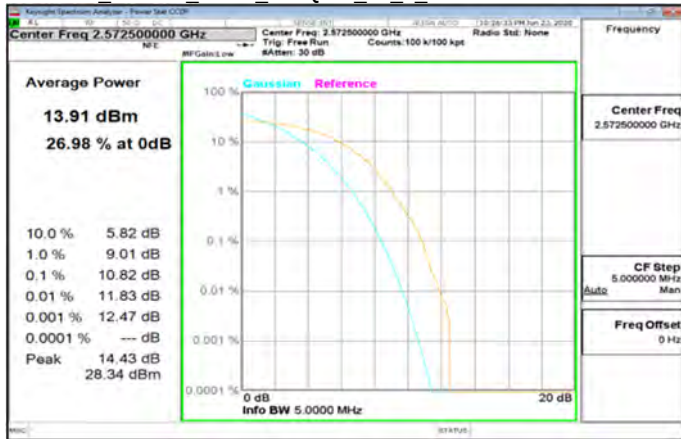


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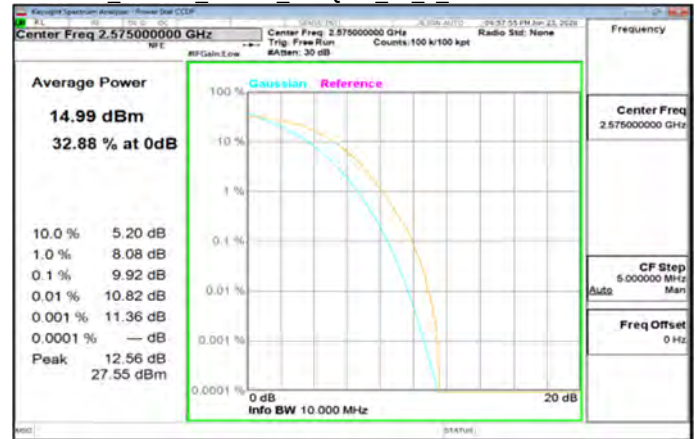
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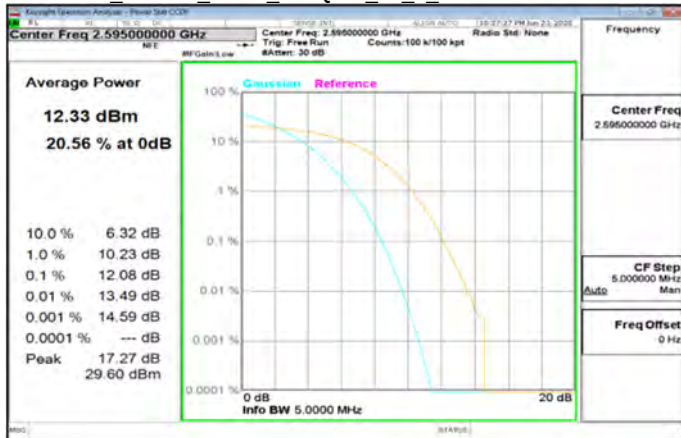
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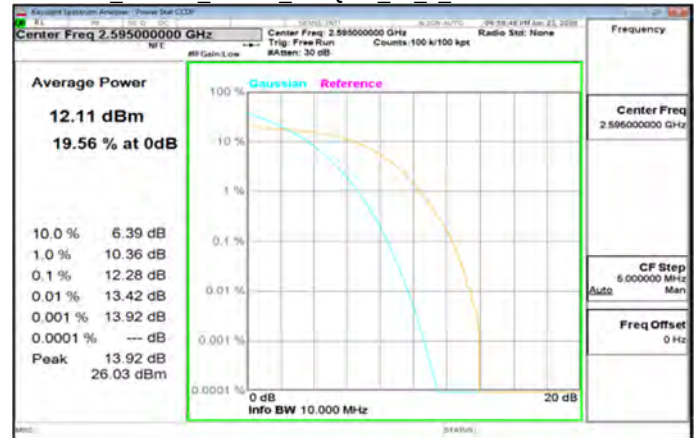
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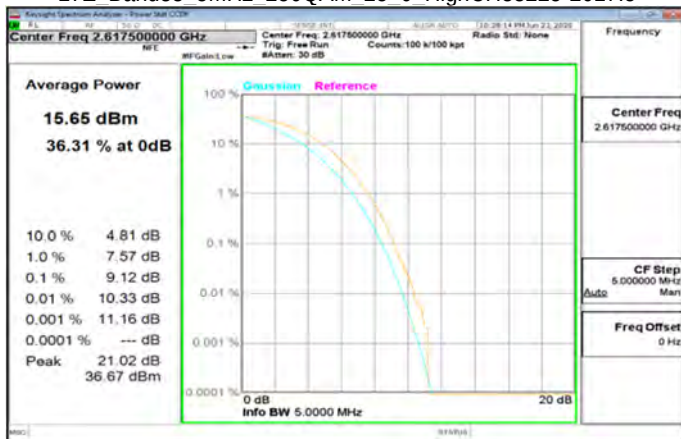
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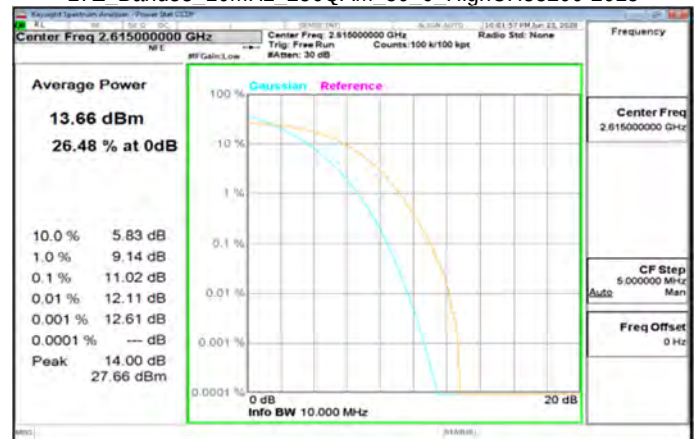
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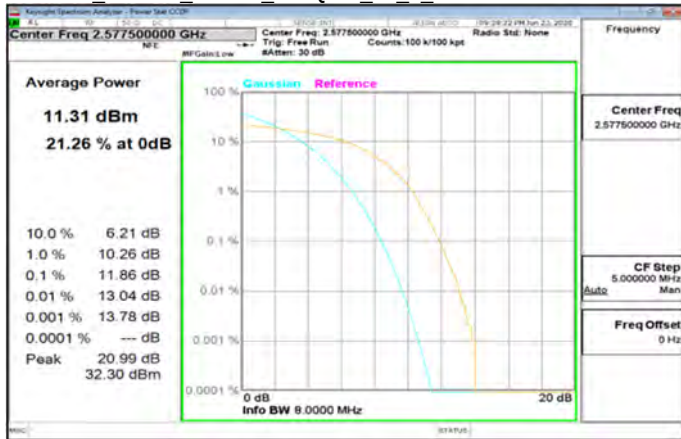


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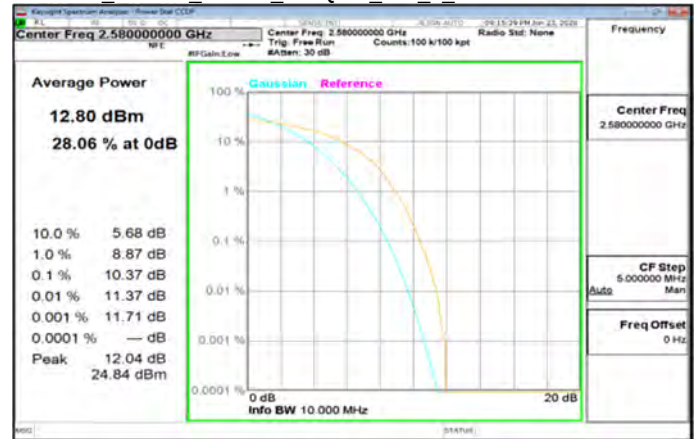
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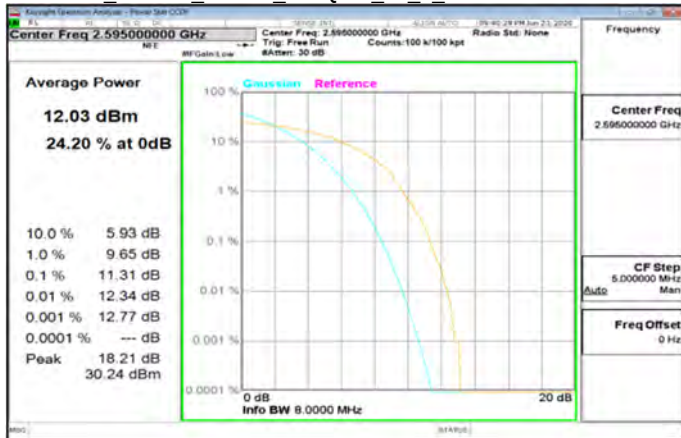
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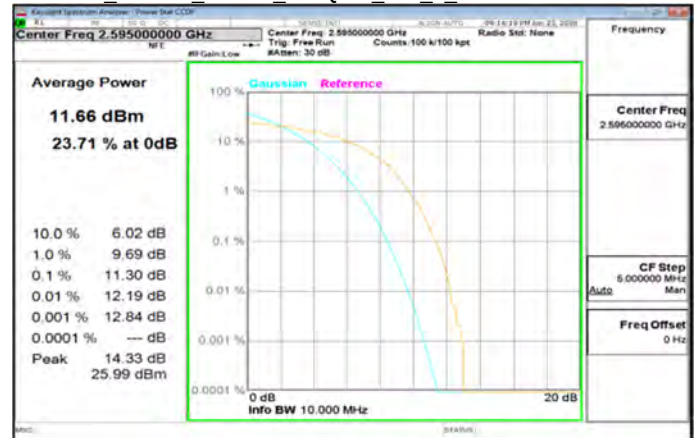
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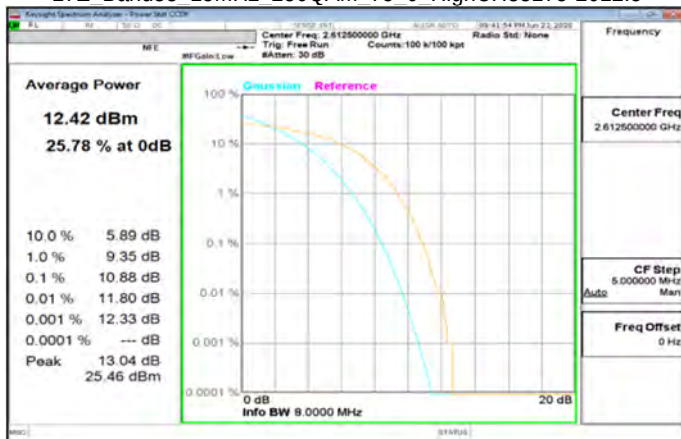
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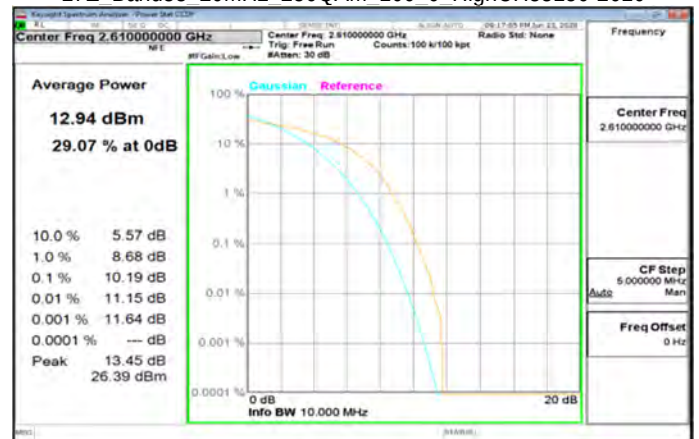
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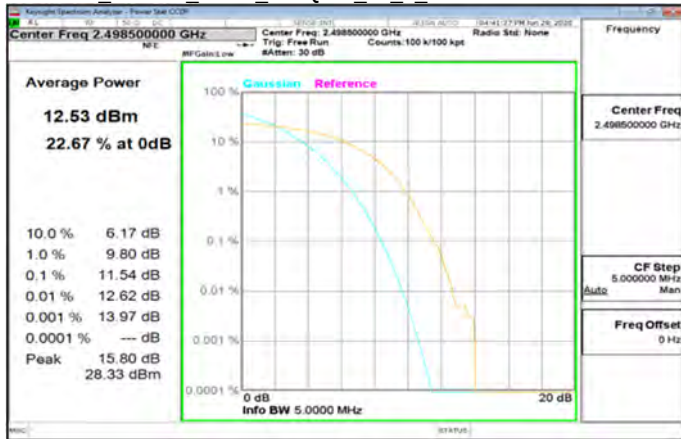


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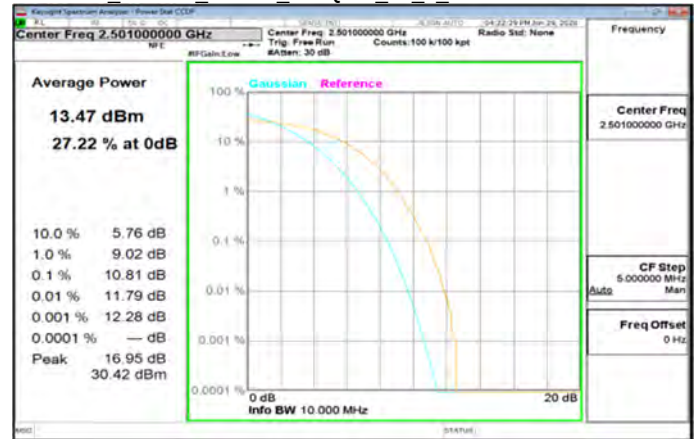
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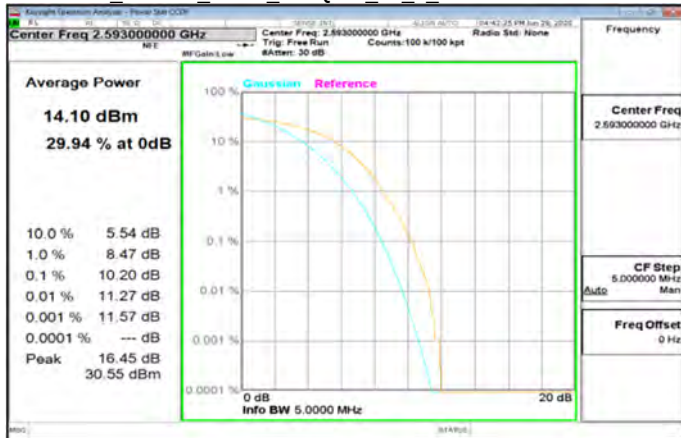
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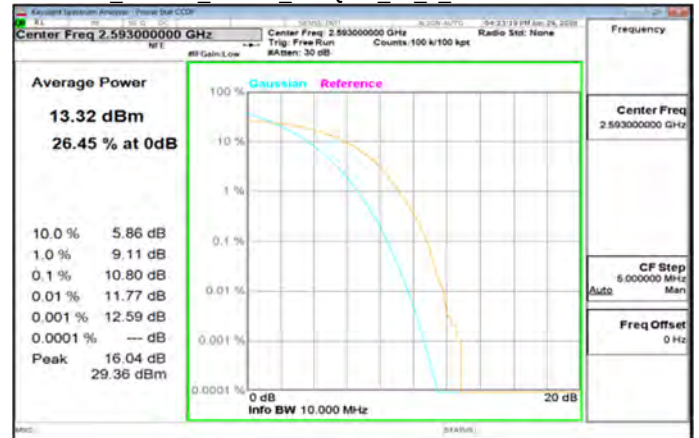
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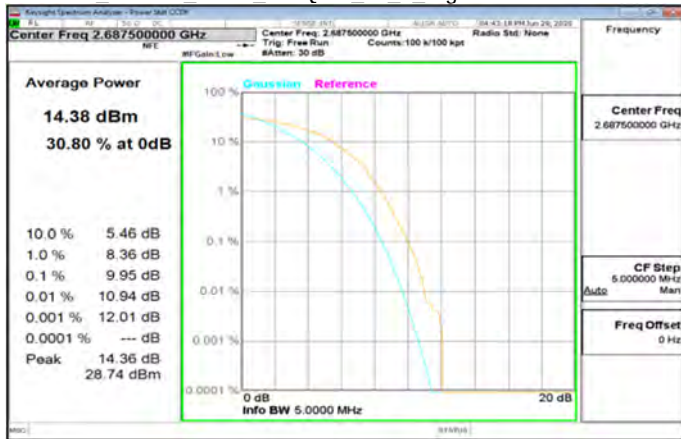
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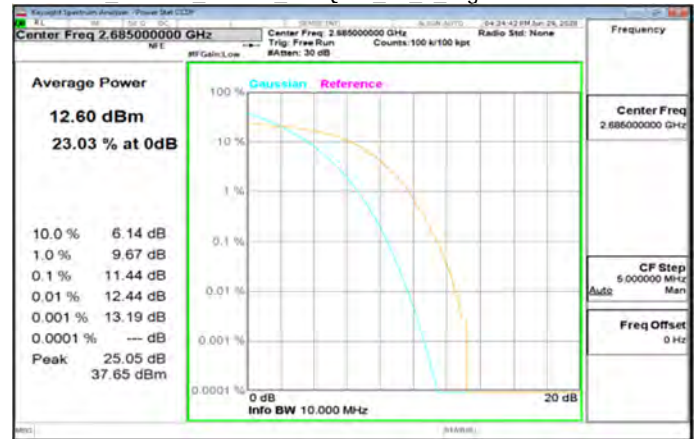
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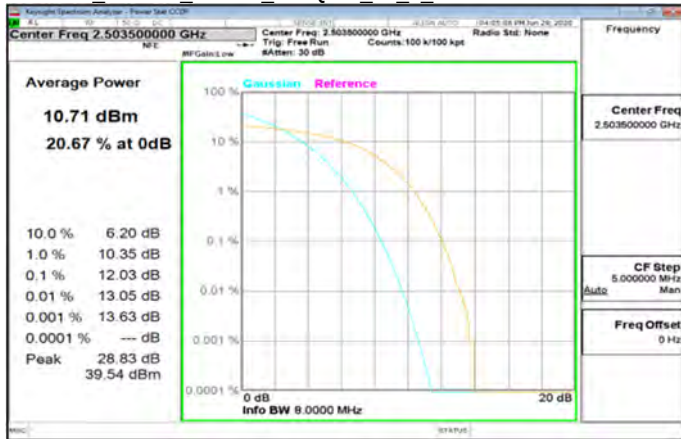


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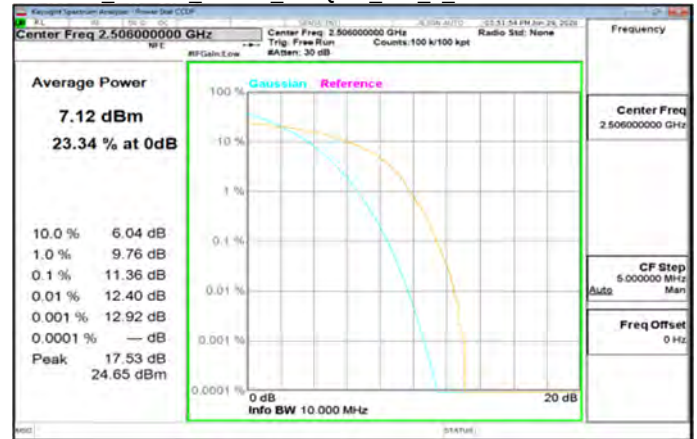
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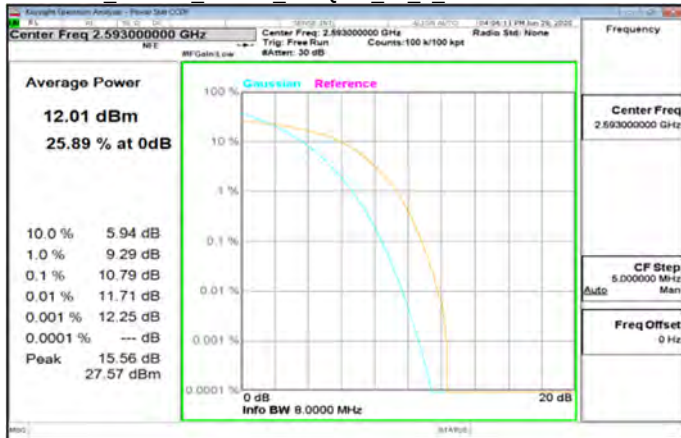
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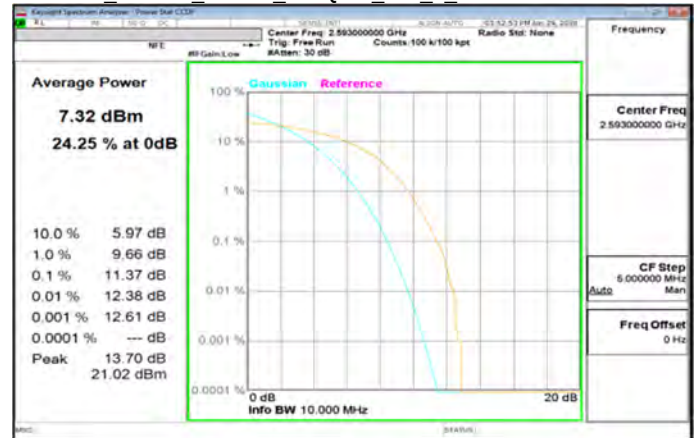
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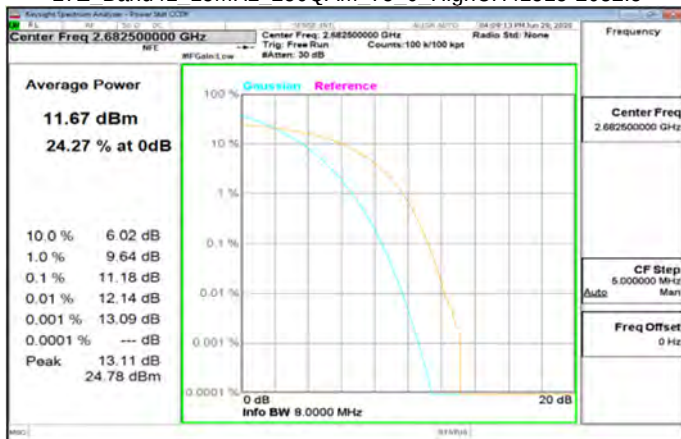
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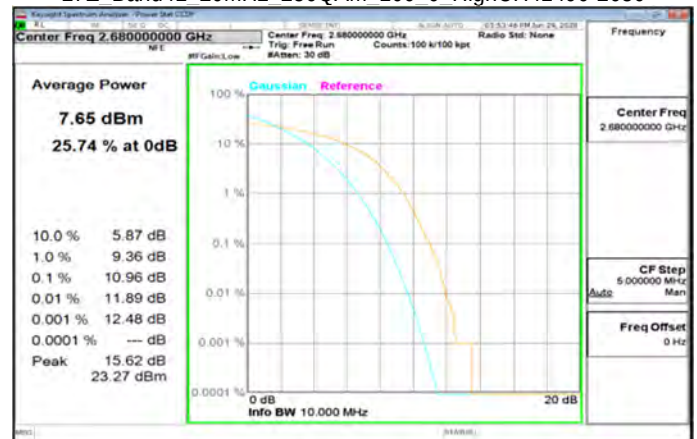
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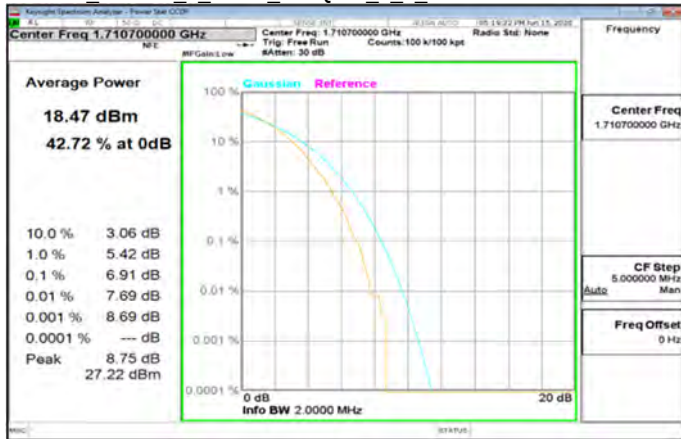


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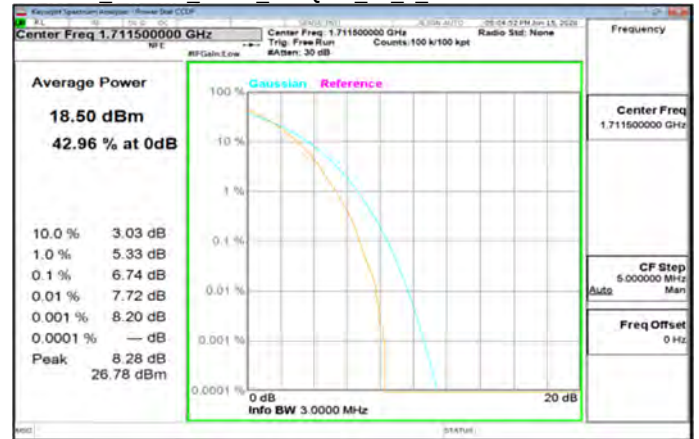
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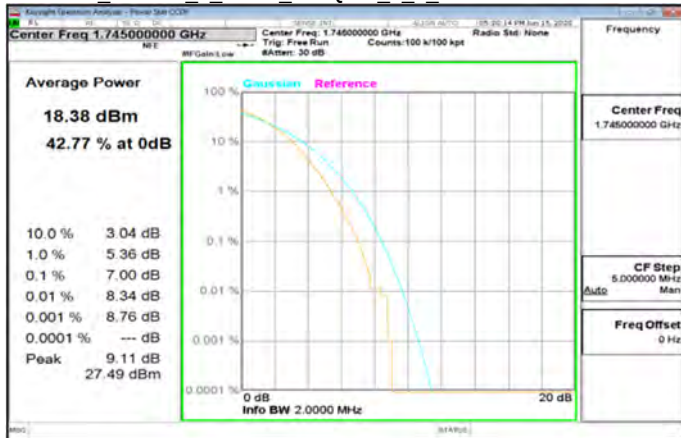
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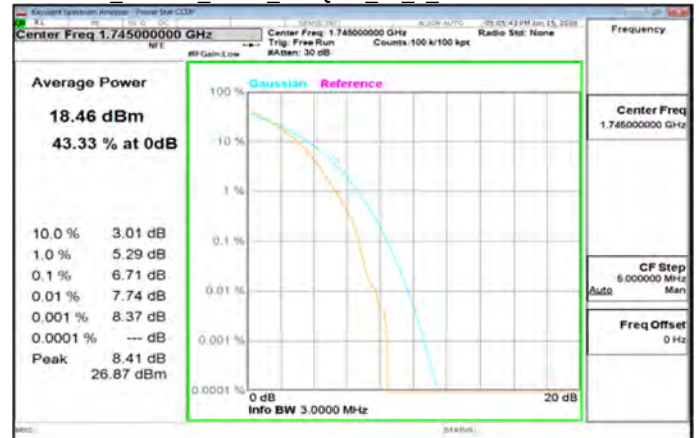
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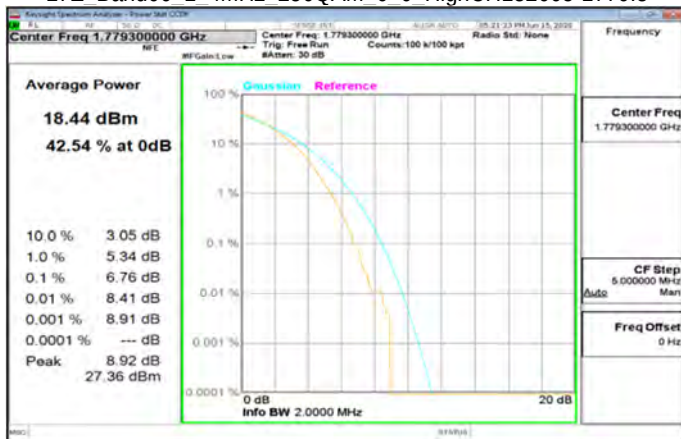
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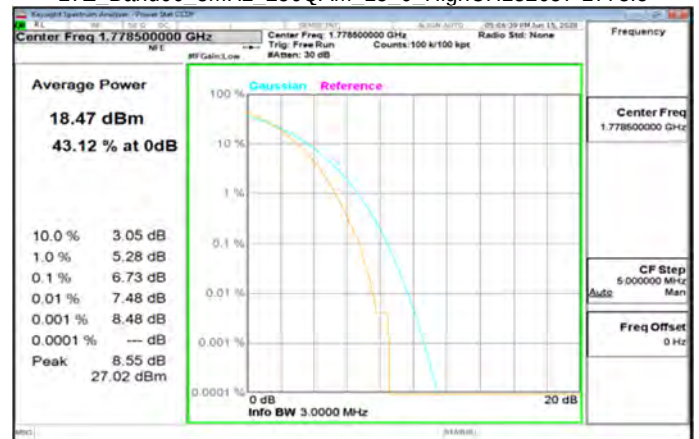
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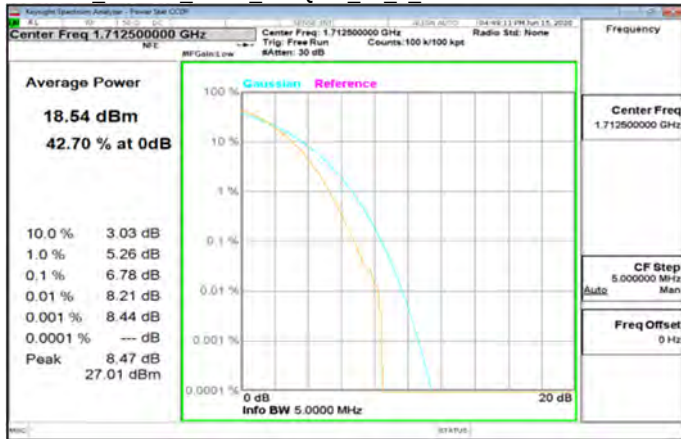


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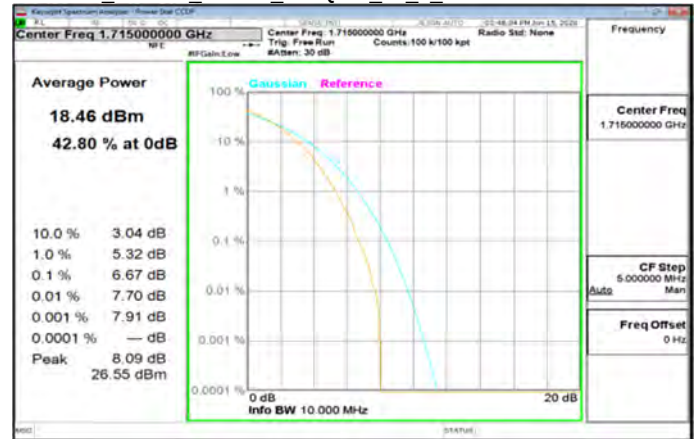
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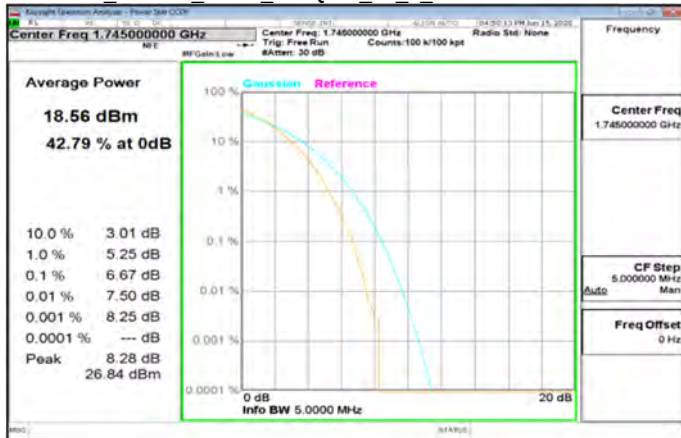
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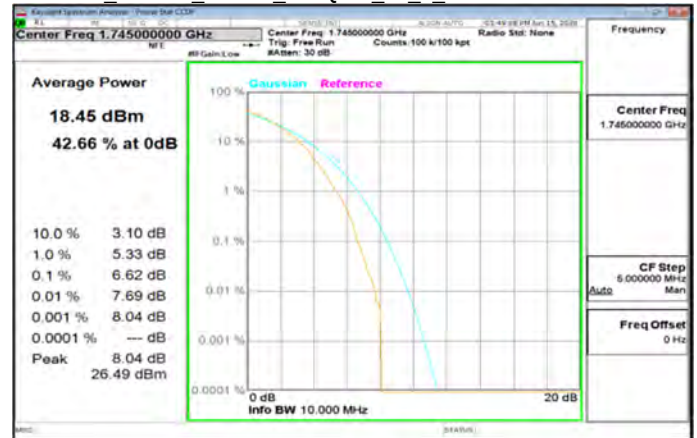
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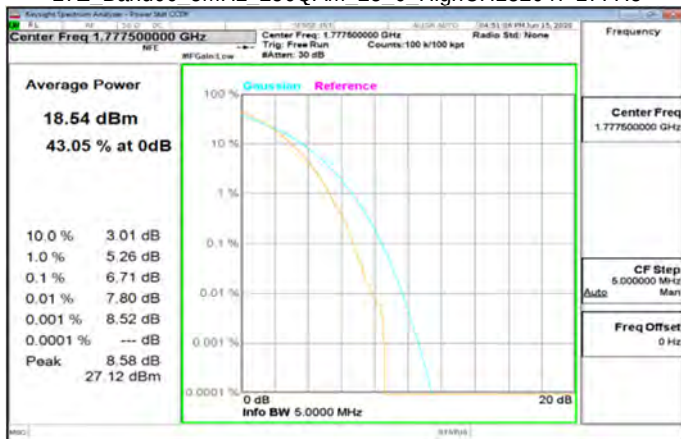
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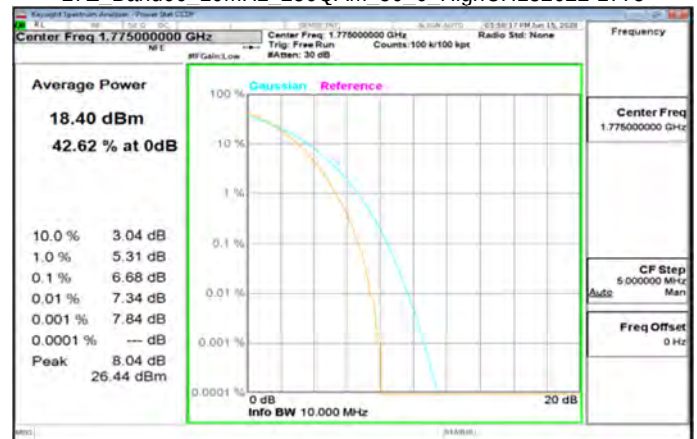
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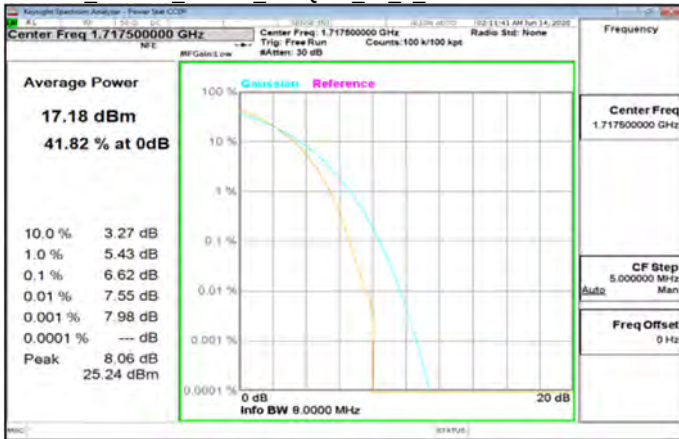


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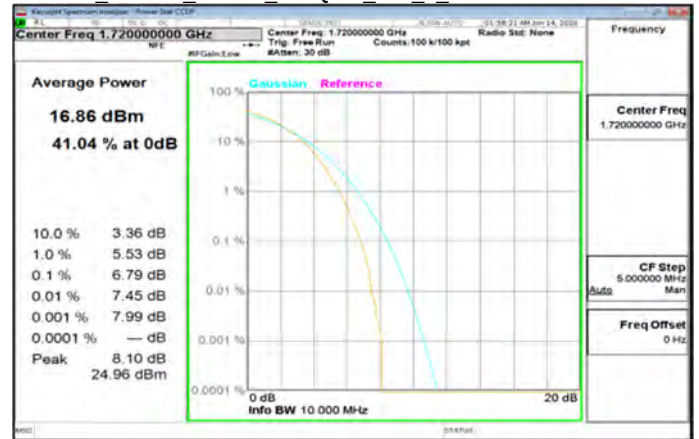
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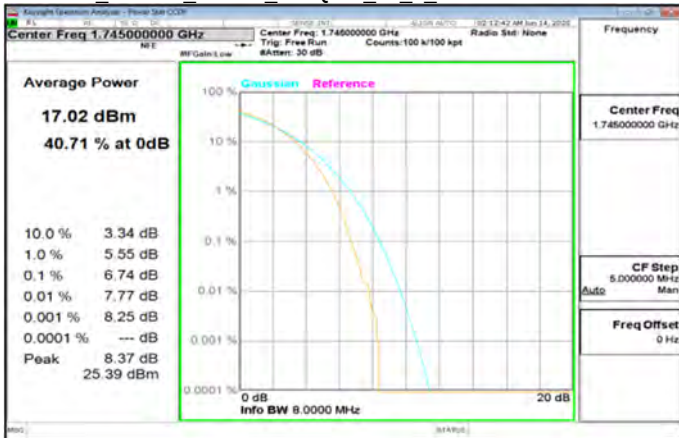
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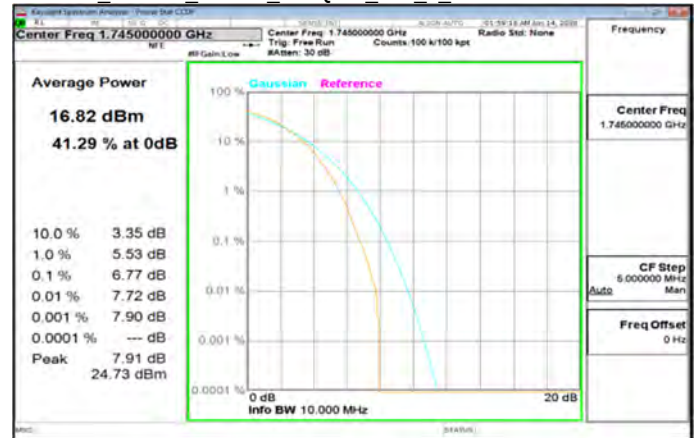
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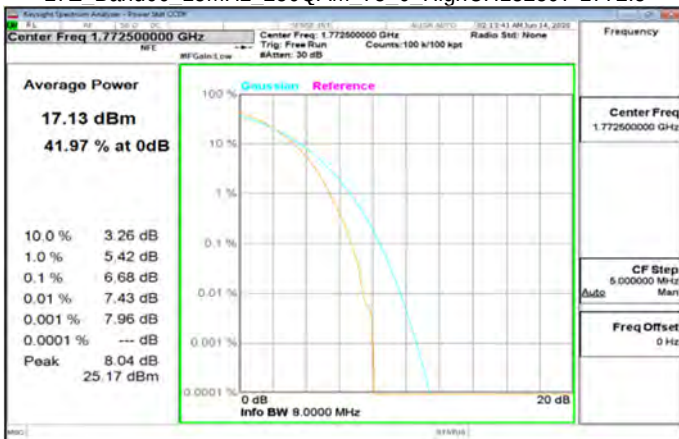
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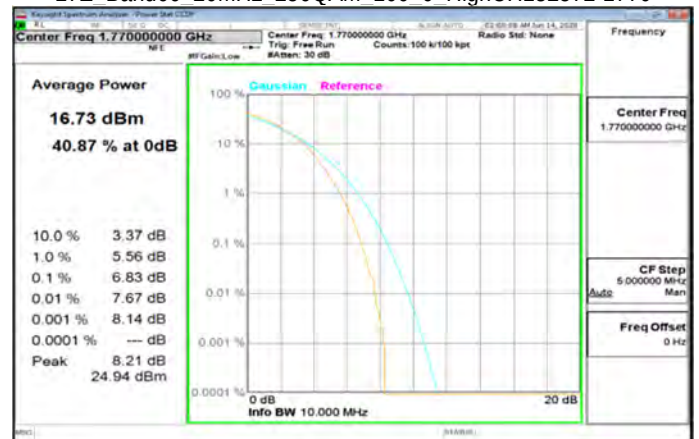
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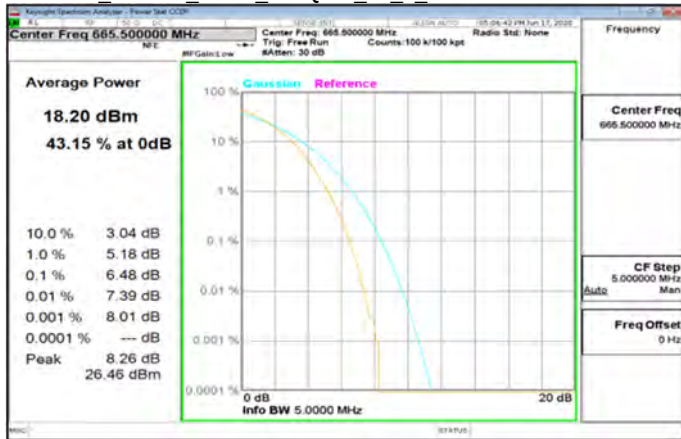


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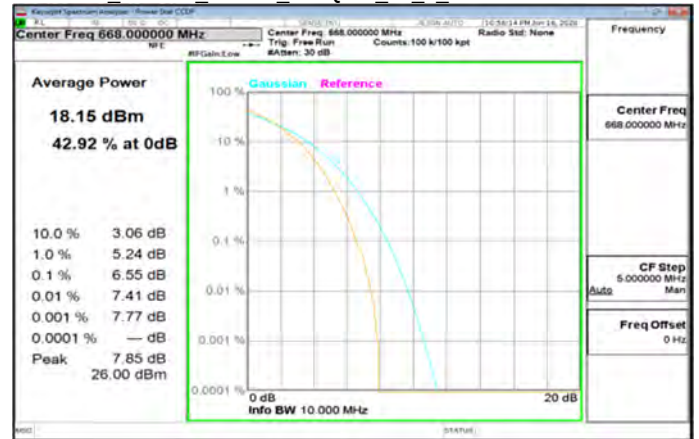
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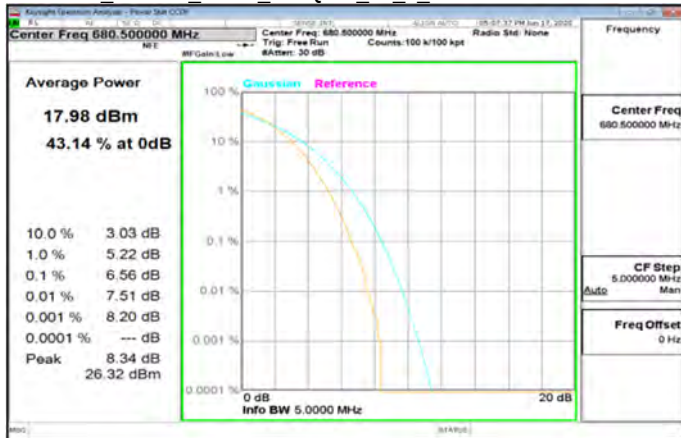
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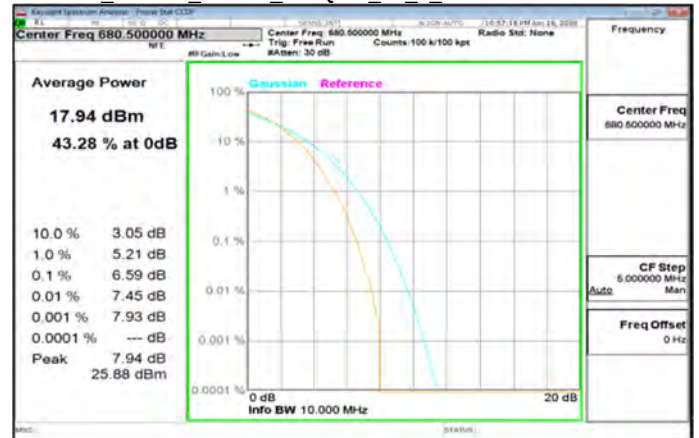
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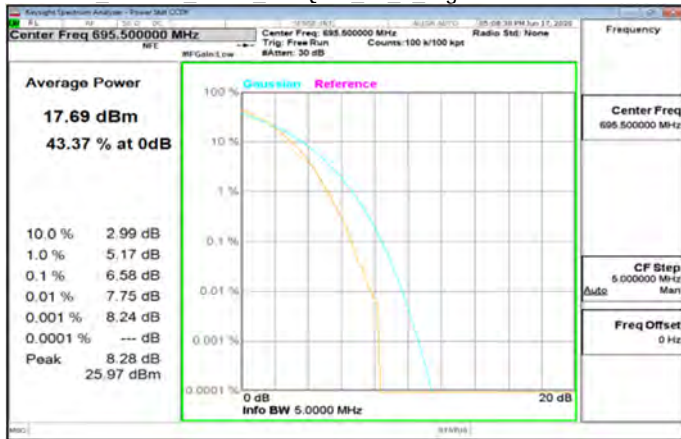
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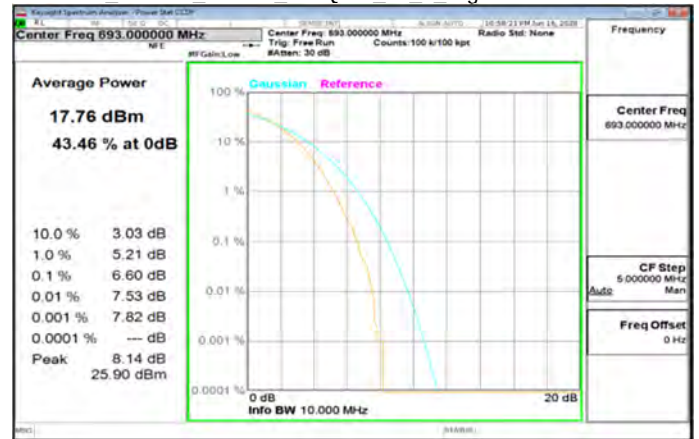
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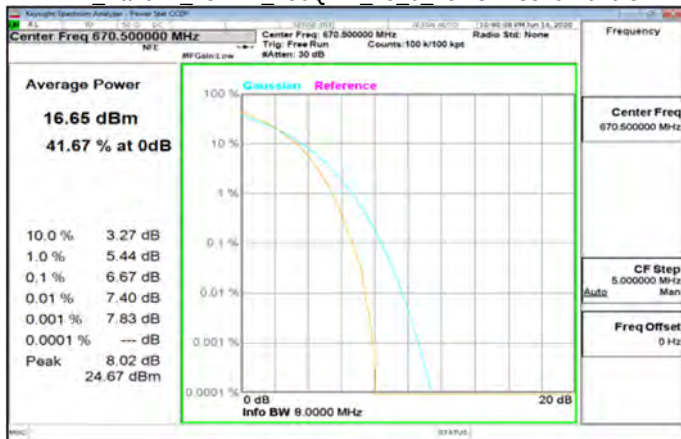


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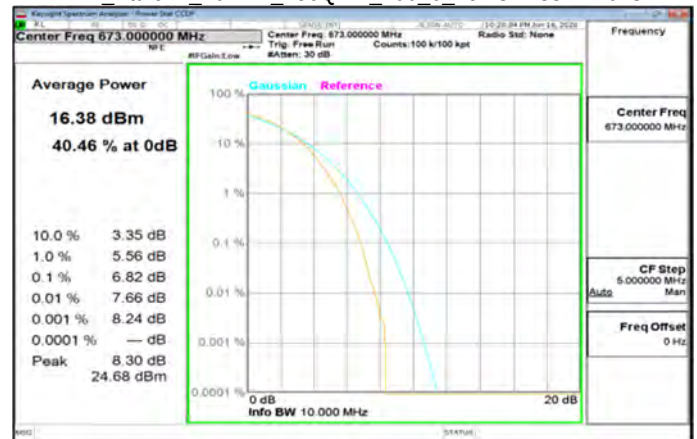
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LTE Band71 15MHz 256QAM 75 0 LowCH133197-670.5



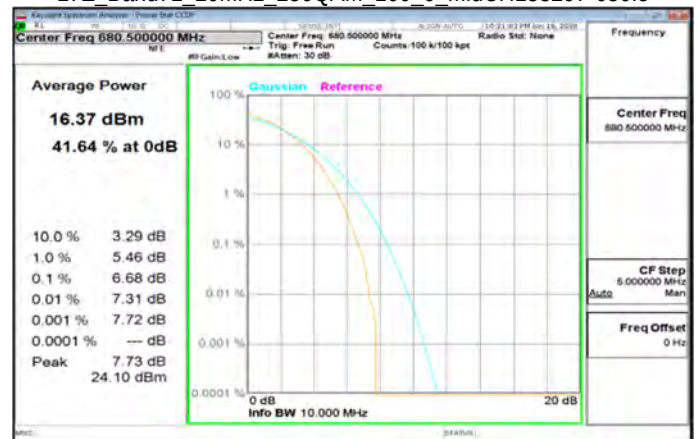
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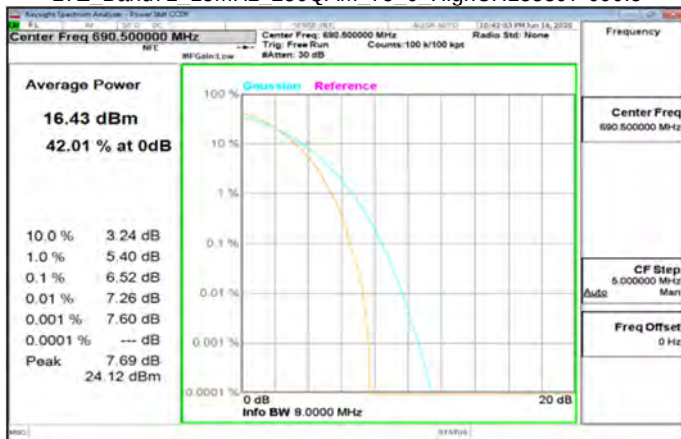
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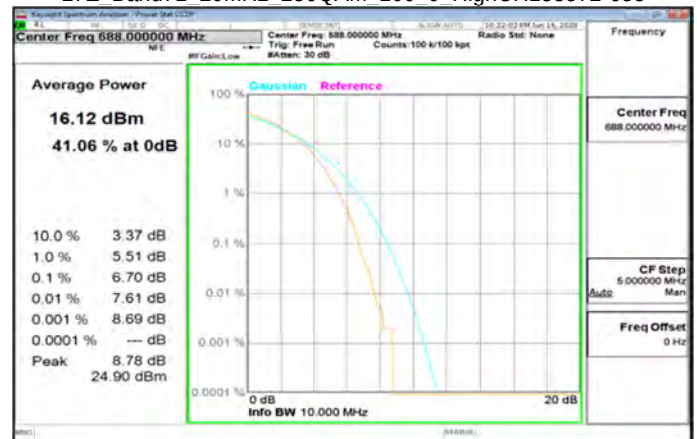
LTE Band71 20MHz 256QAM 100 0 MidCH133297-680.5



LTE Band71 15MHz 256QAM 75 0 HighCH133397-690.5



LTE Band71 20MHz 256QAM 100 0 HighCH133372-688



~ End of Report ~

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