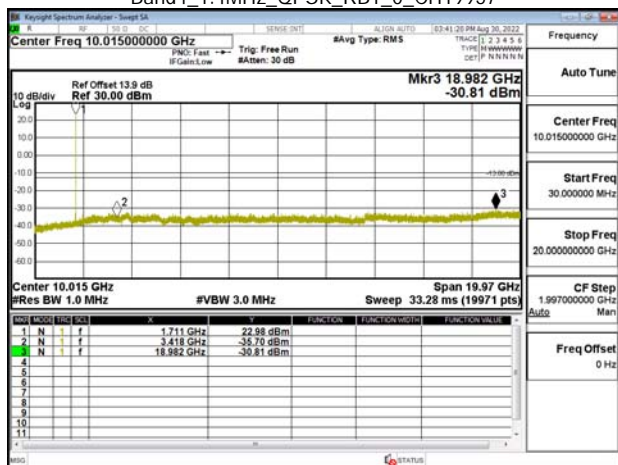
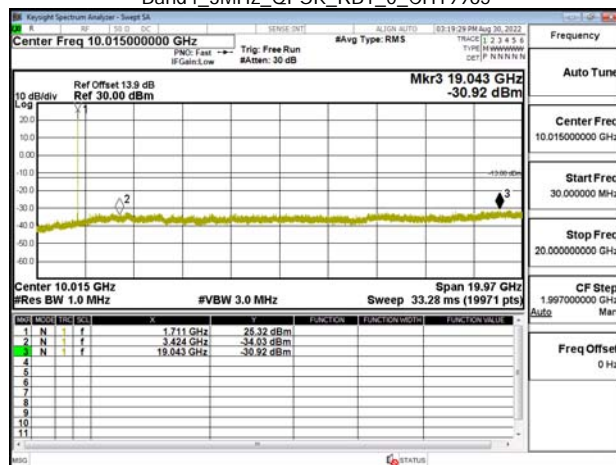


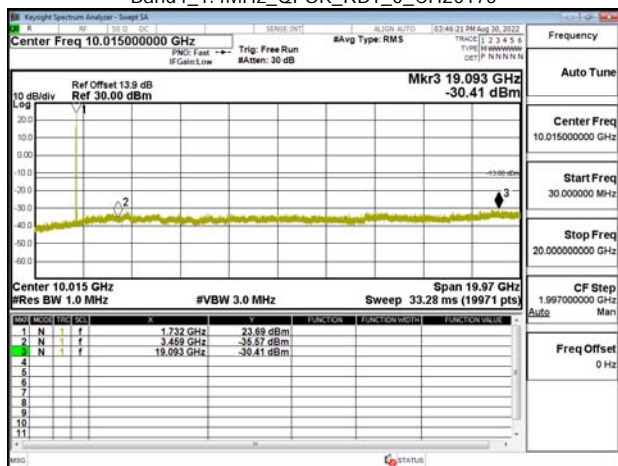
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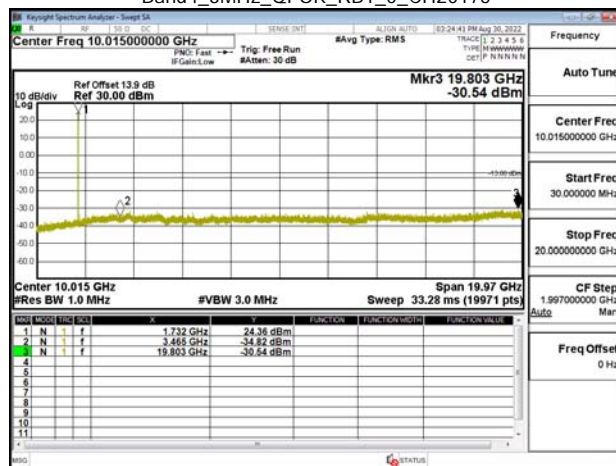
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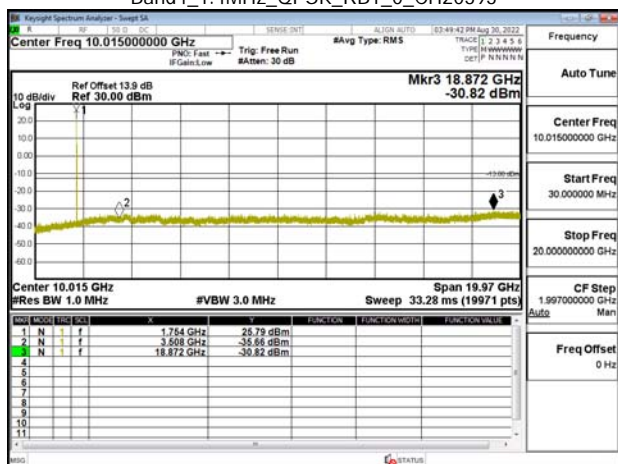
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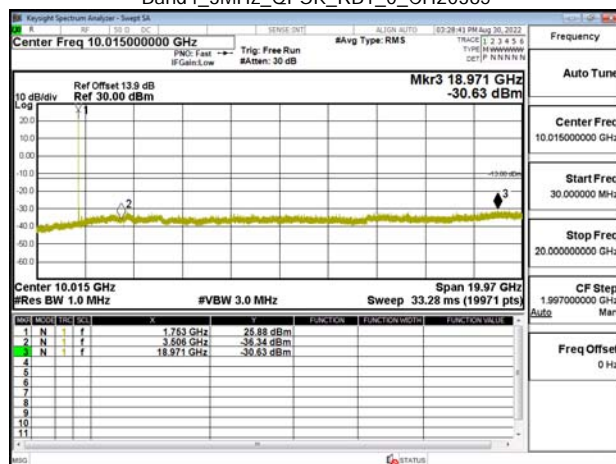
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Band4_1.4MHz_QPSK_RB1_0_CH20393



Band4_3MHz_QPSK_RB1_0_CH20385



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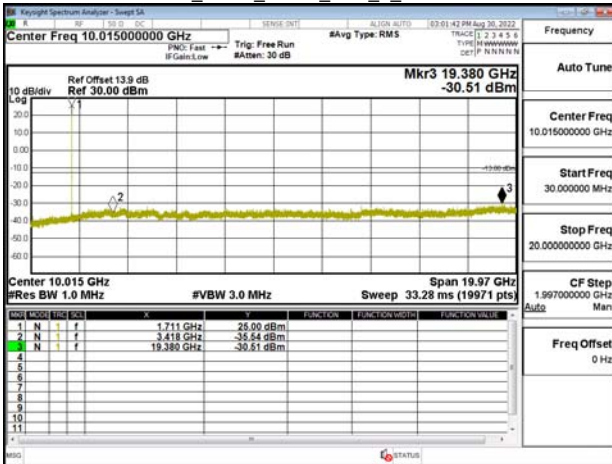
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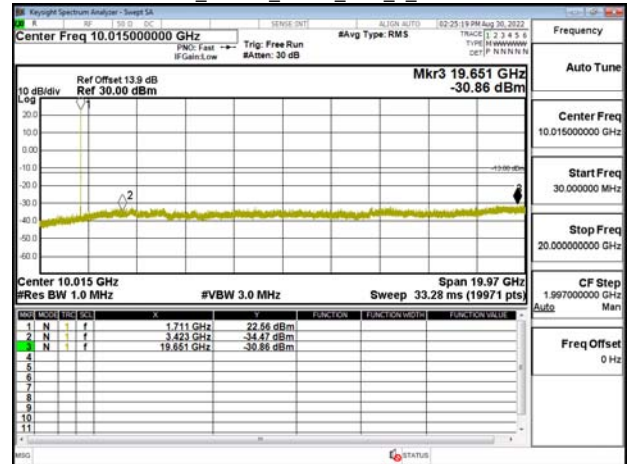
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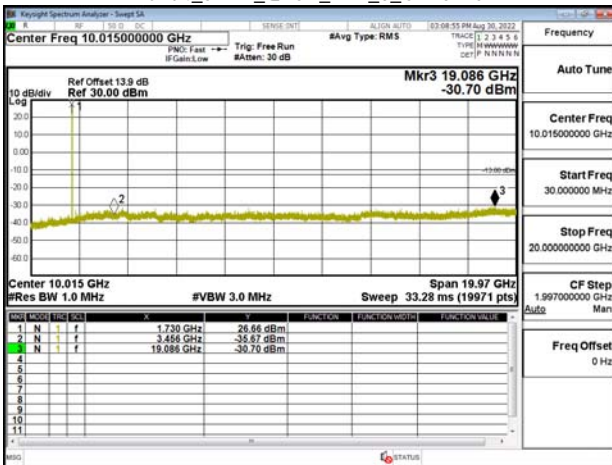
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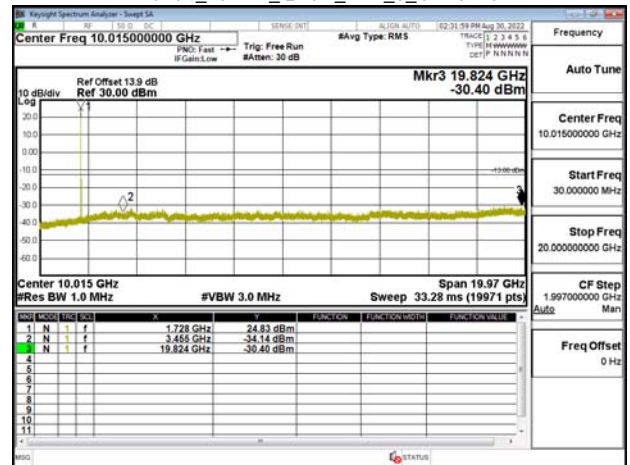
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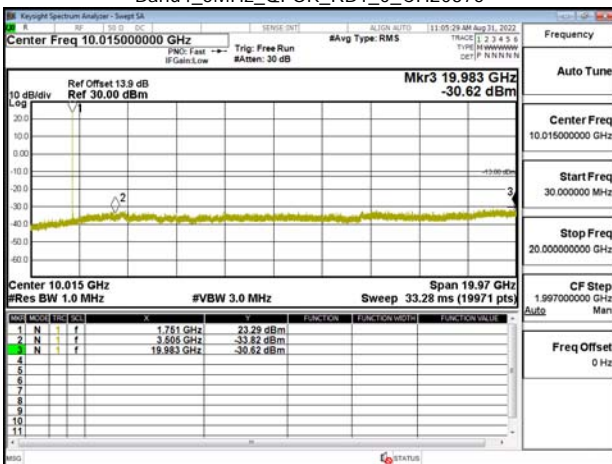
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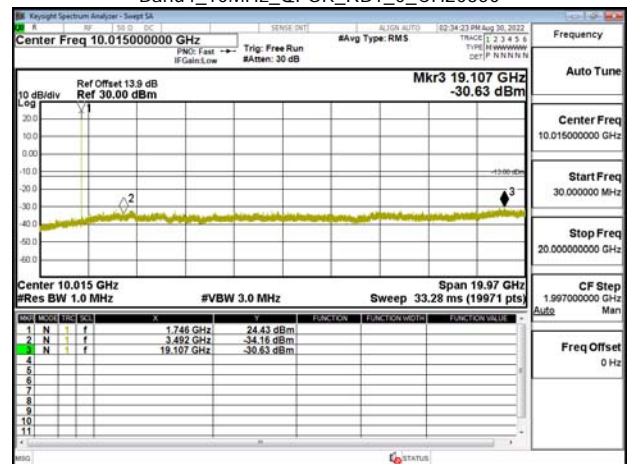
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Band4_5MHz_QPSK_RB1_0_CH20375



Band4_10MHz_QPSK_RB1_0_CH20350



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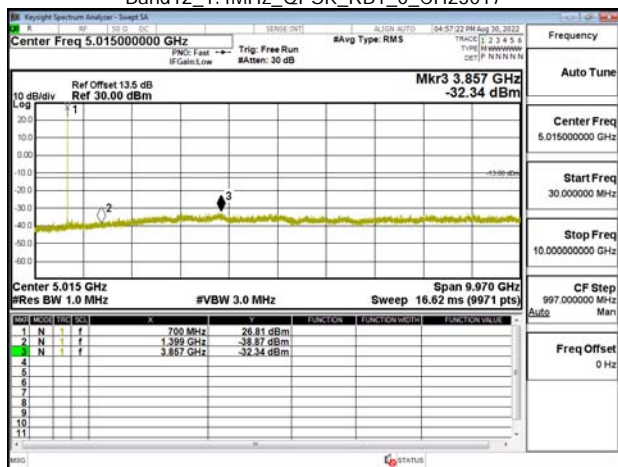
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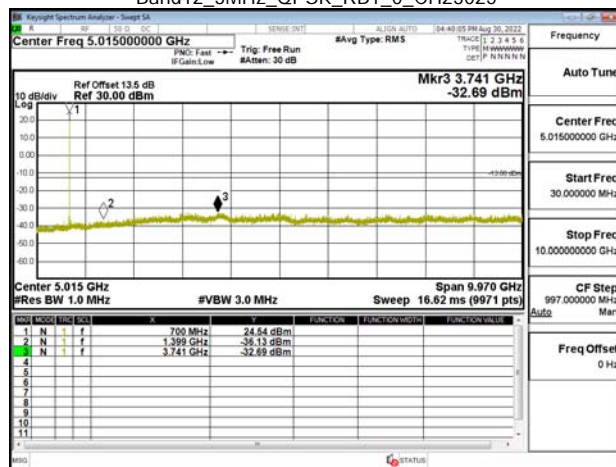
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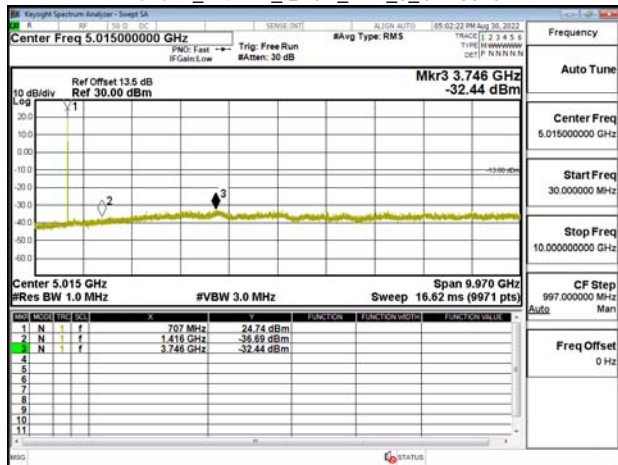
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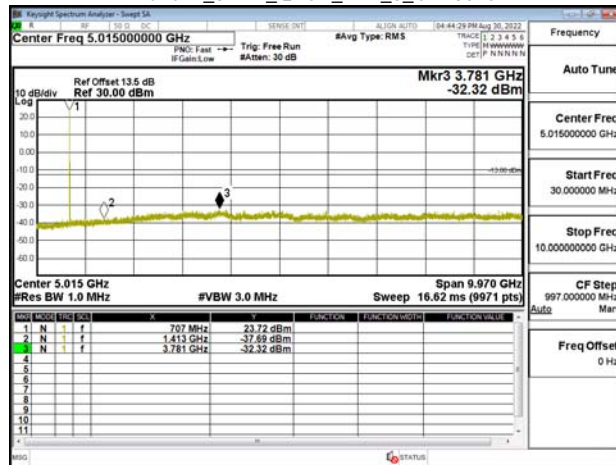
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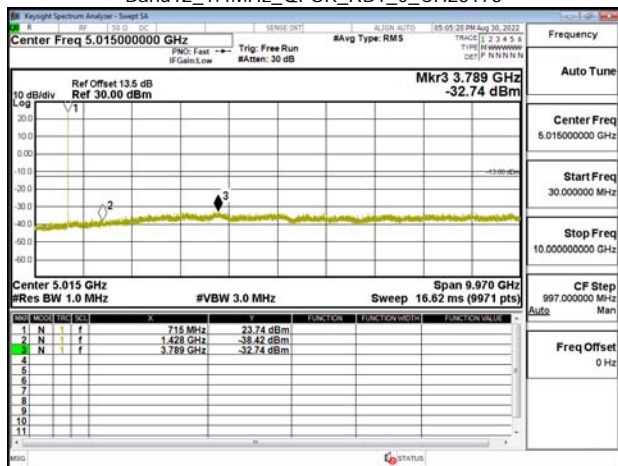
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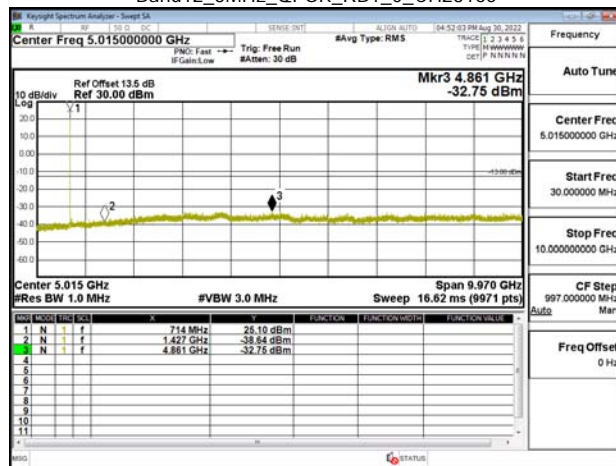
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Band12_1.4MHz_QPSK_RB1_0_CH23173



Band12_3MHz_QPSK_RB1_0_CH23165



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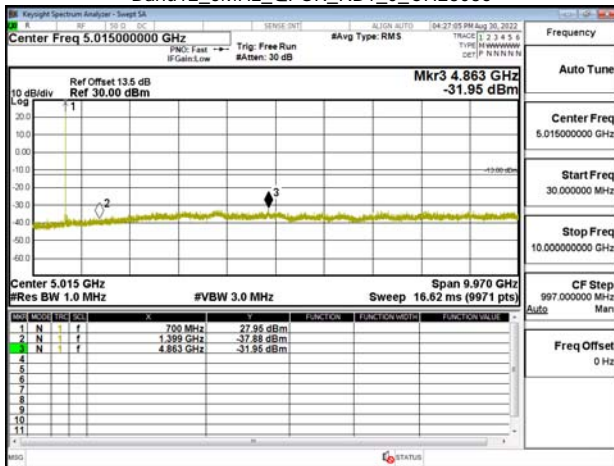
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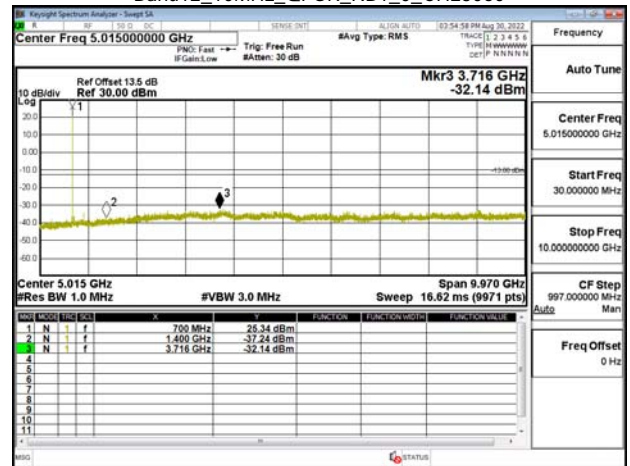
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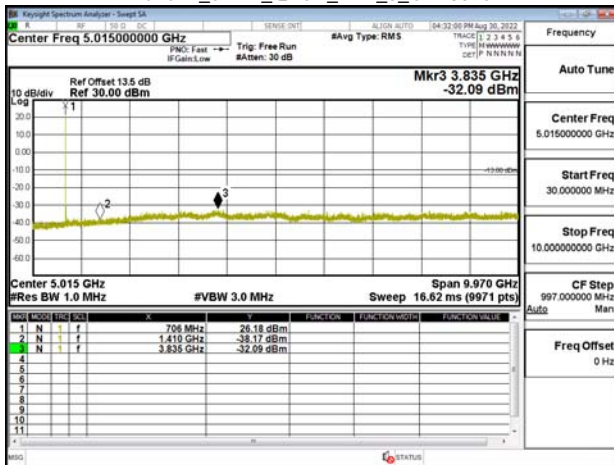
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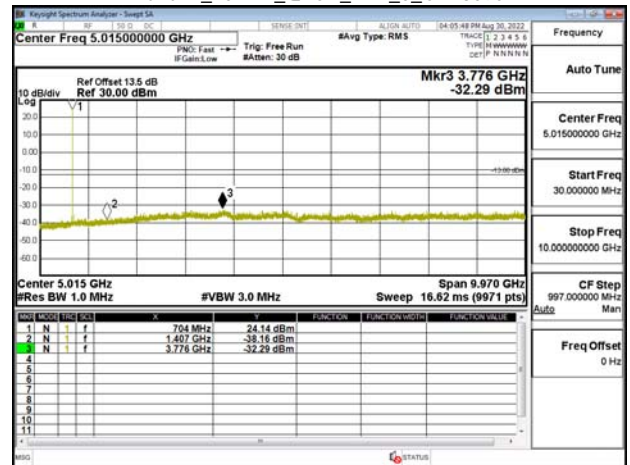
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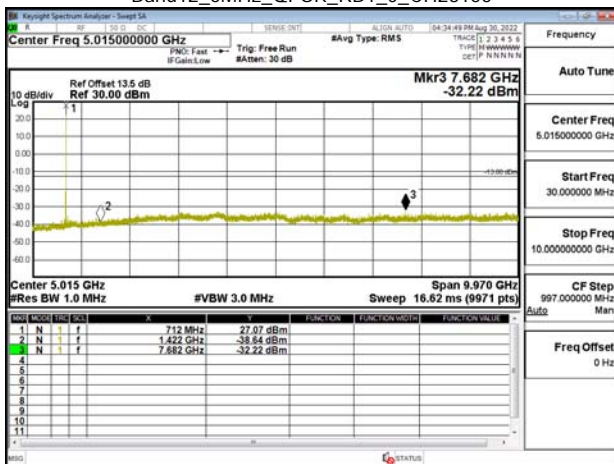
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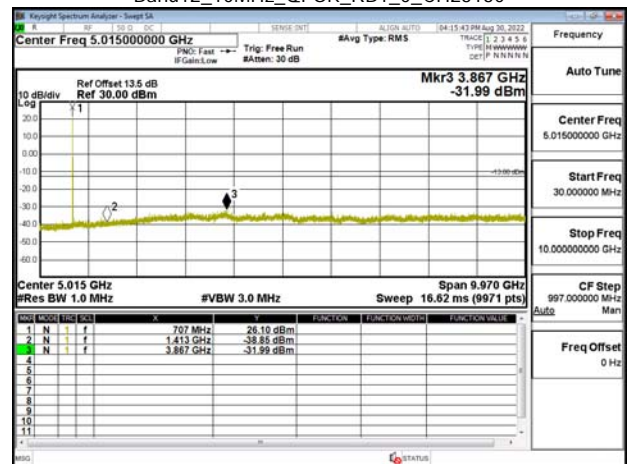
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Band12_10MHz_QPSK_RB1_0_CH23130



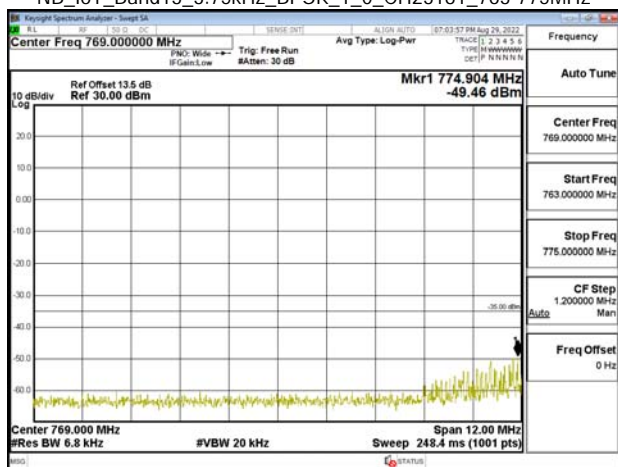
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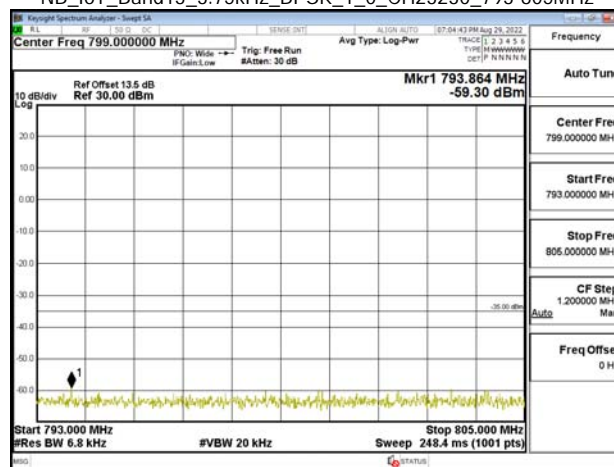
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9.4.3 Emissions outside the 746–758, 776–788 MHz

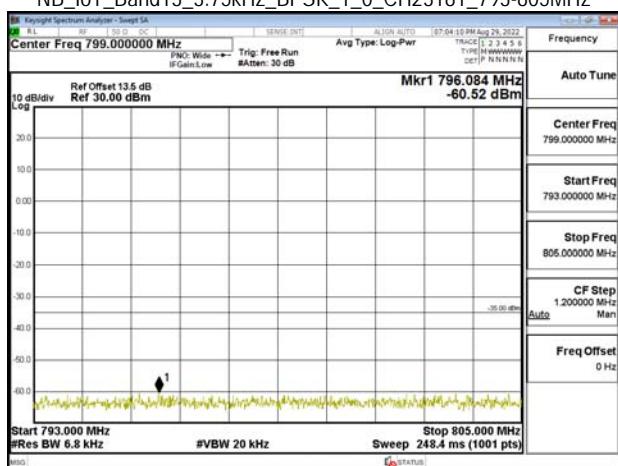
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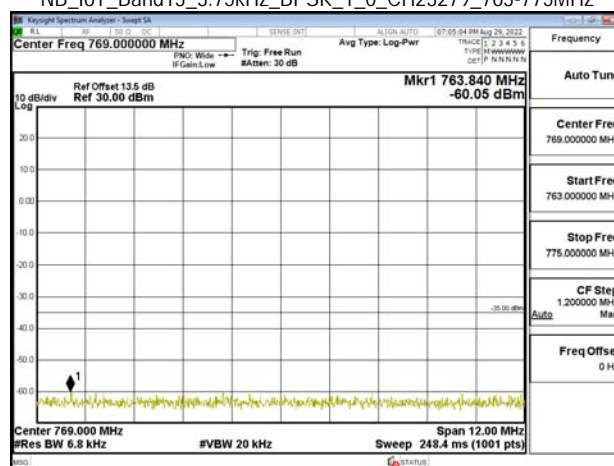
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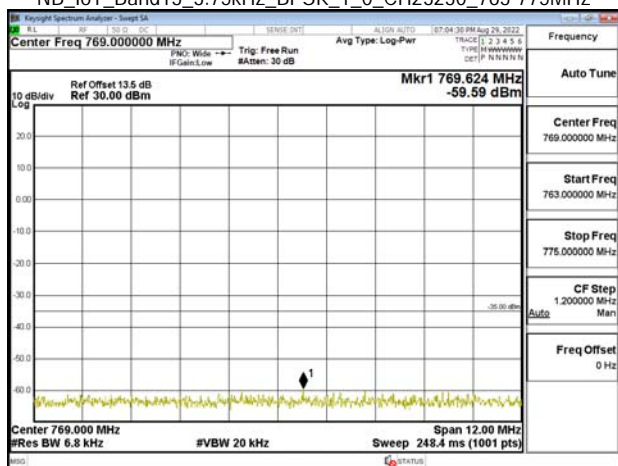
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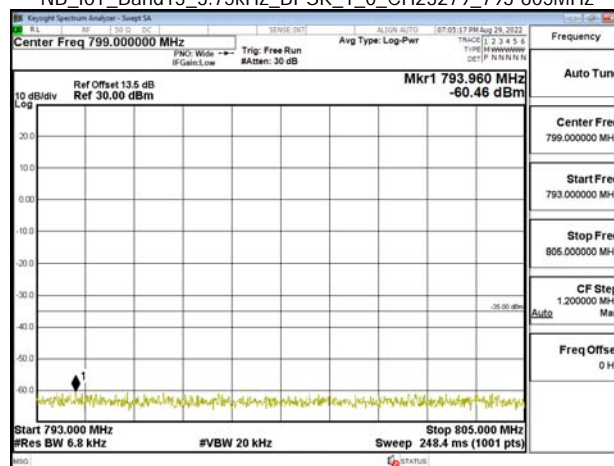
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NB_IoT_Band13_3.75kHz_BPSK_1_0_CH23230_763-775MHz



NB_IoT_Band13_3.75kHz_BPSK_1_0_CH23279_793-805MHz



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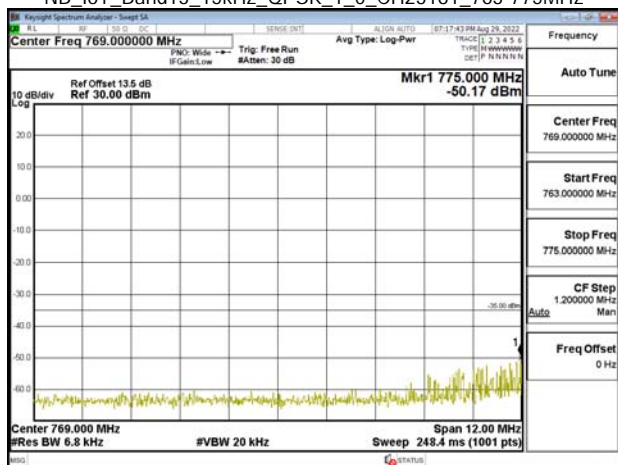
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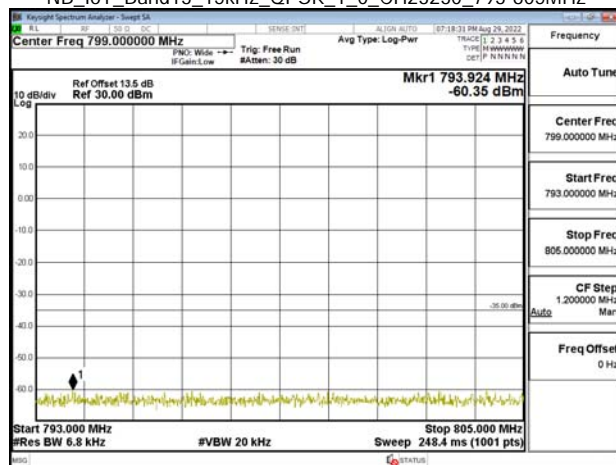
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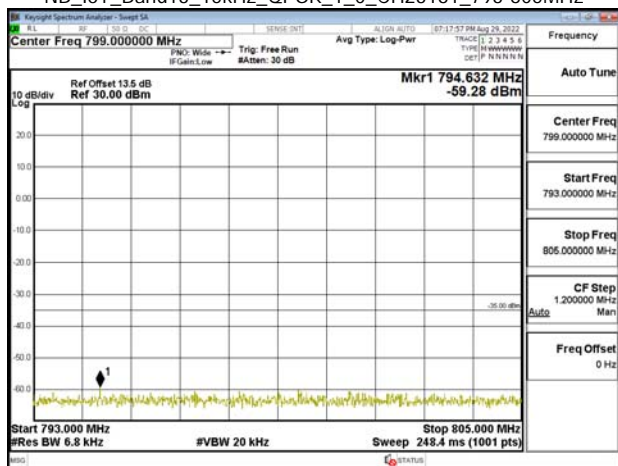
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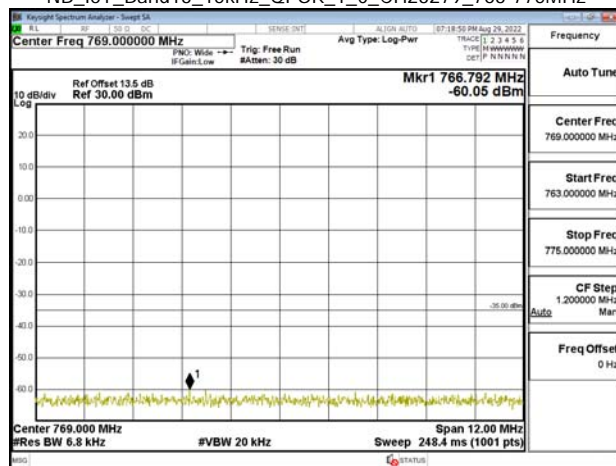
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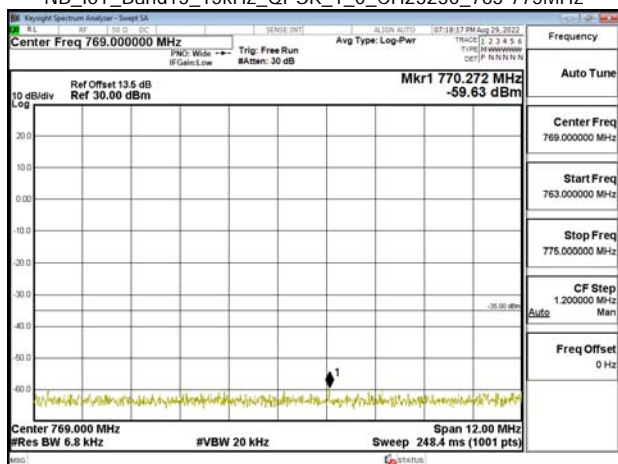
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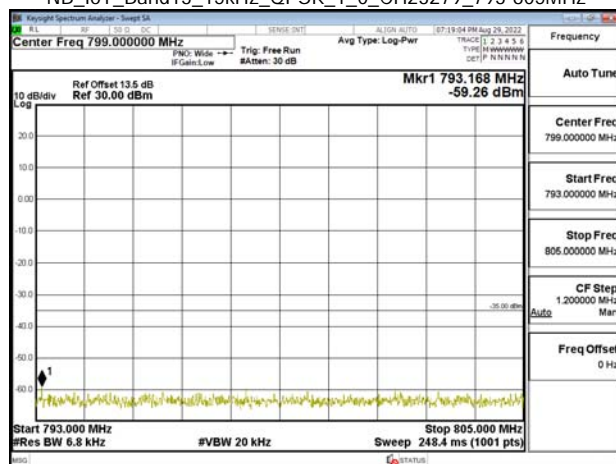
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NB_IoT_Band13_15kHz_QPSK_1_0_CH23279_793-805MHz



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §24.238(a), §27.53(h)

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(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

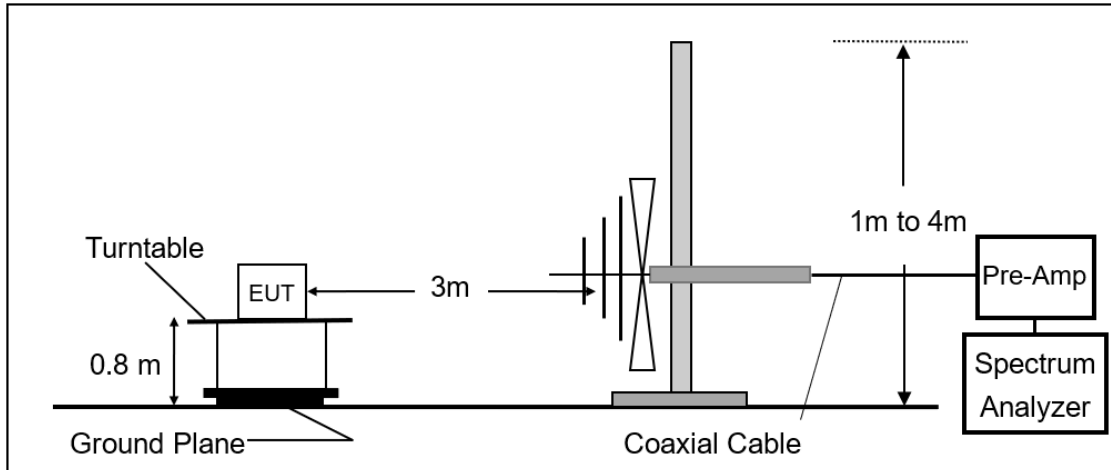
FCC §27.53(h)(1)

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

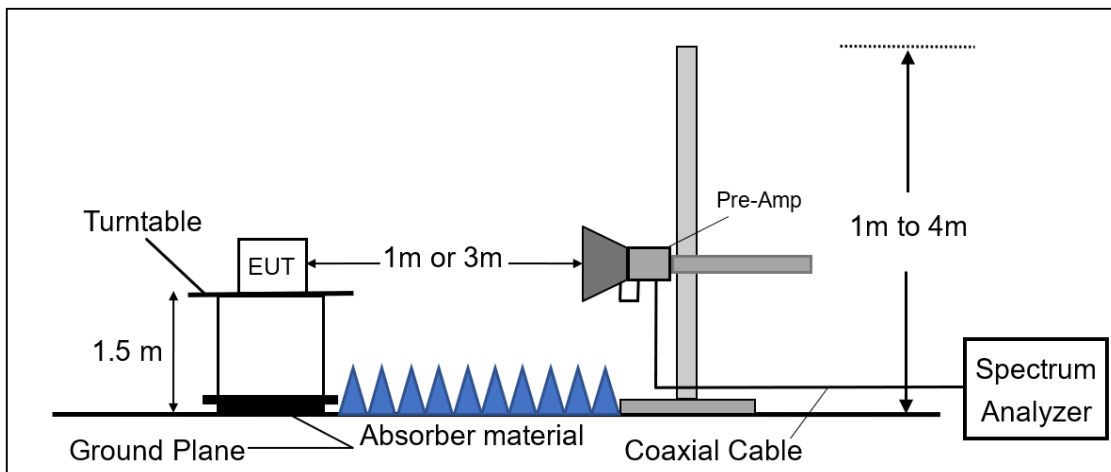
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Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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10.3 Measurement Procedure:

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

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

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

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

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

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

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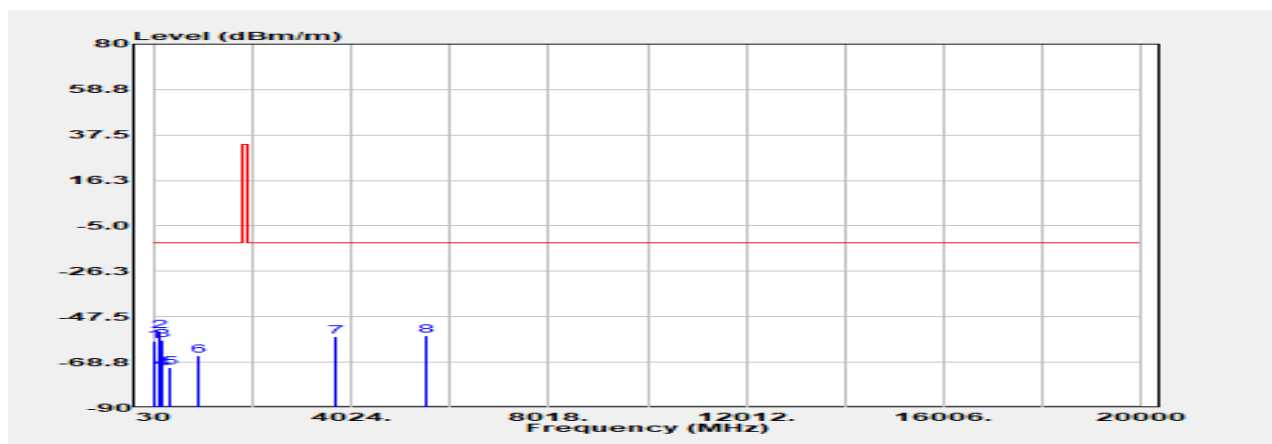
Member of SGS Group

10.4 Measurement Result:

10.4.1 Radiated Spurious Emission

Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1850.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



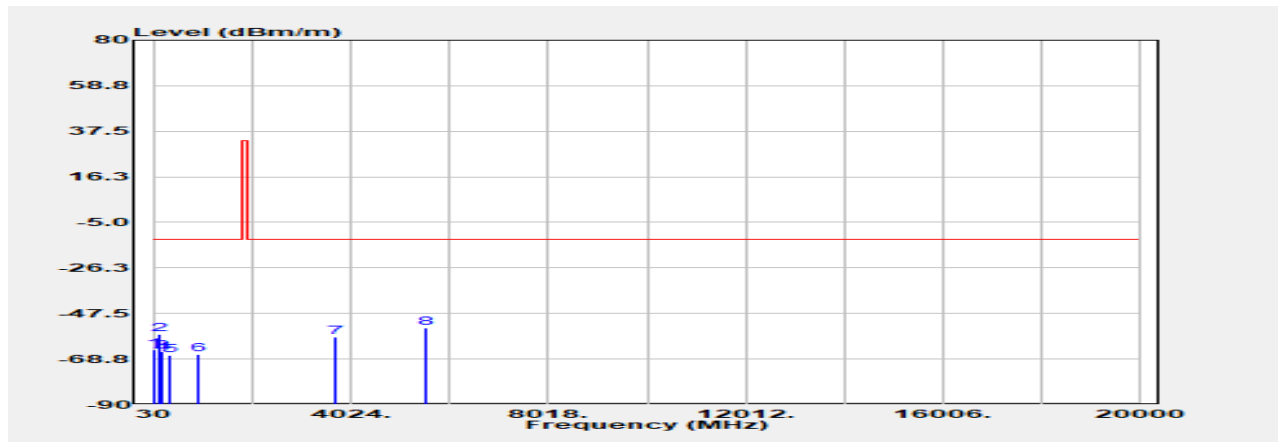
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
72.680	-58.93	-47.30	-11.14	-0.49	-13.00	-45.93
144.460	-54.37	-46.66	-7.04	-0.67	-13.00	-41.37
192.960	-58.34	-55.89	-1.63	-0.82	-13.00	-45.34
217.210	-71.74	-70.71	-0.16	-0.87	-13.00	-58.74
361.740	-71.23	-69.64	-0.50	-1.09	-13.00	-58.23
918.520	-65.61	-62.40	-1.35	-1.86	-13.00	-52.61
3700.200	-56.62	-65.04	12.30	-3.88	-13.00	-43.62
5550.300	-56.31	-64.69	12.90	-4.52	-13.00	-43.31

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1850.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



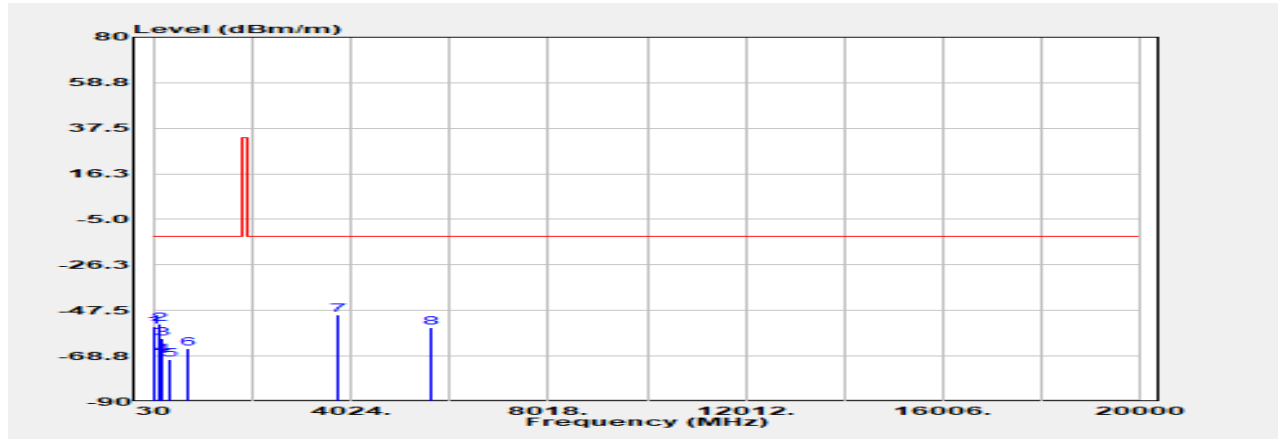
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-64.52	-52.89	-11.14	-0.49	-13.00	-51.52
144.460	-57.29	-49.58	-7.04	-0.67	-13.00	-44.29
191.990	-65.18	-62.69	-1.67	-0.82	-13.00	-52.18
216.240	-66.05	-64.97	-0.21	-0.87	-13.00	-53.05
347.190	-67.19	-65.56	-0.43	-1.20	-13.00	-54.19
962.170	-66.59	-63.26	-1.47	-1.86	-13.00	-53.59
3700.200	-58.46	-66.88	12.30	-3.88	-13.00	-45.46
5550.300	-54.04	-62.42	12.90	-4.52	-13.00	-41.04

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1880 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



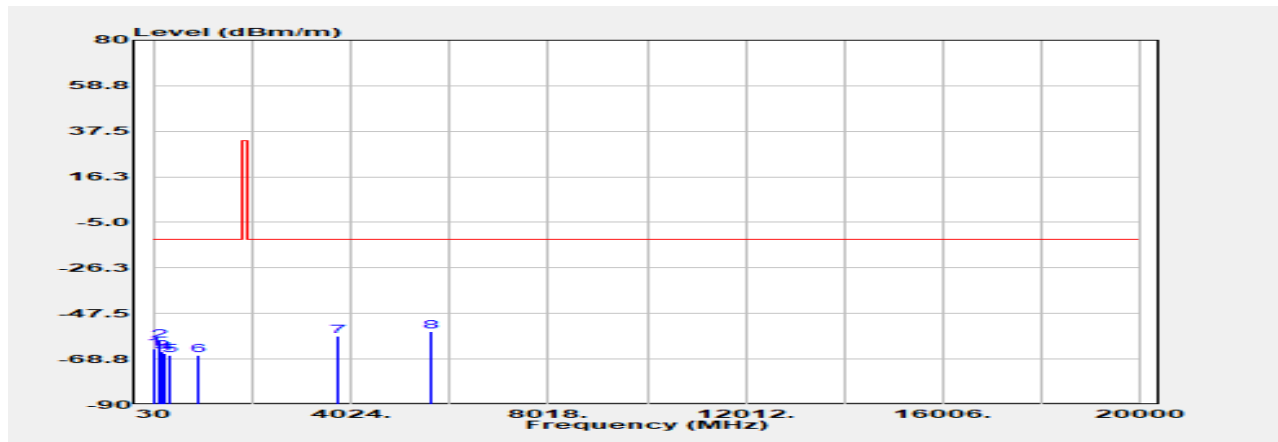
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-54.93	-43.30	-11.14	-0.49	-13.00	-41.93
144.460	-53.75	-46.04	-7.04	-0.67	-13.00	-40.75
191.990	-60.57	-58.08	-1.67	-0.82	-13.00	-47.57
217.210	-68.14	-67.11	-0.16	-0.87	-13.00	-55.14
364.650	-70.26	-68.68	-0.49	-1.09	-13.00	-57.26
734.220	-65.45	-62.28	-1.20	-1.97	-13.00	-52.45
3760.000	-49.47	-58.13	12.40	-3.74	-13.00	-36.47
5640.000	-55.35	-63.60	13.00	-4.75	-13.00	-42.35

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1880 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



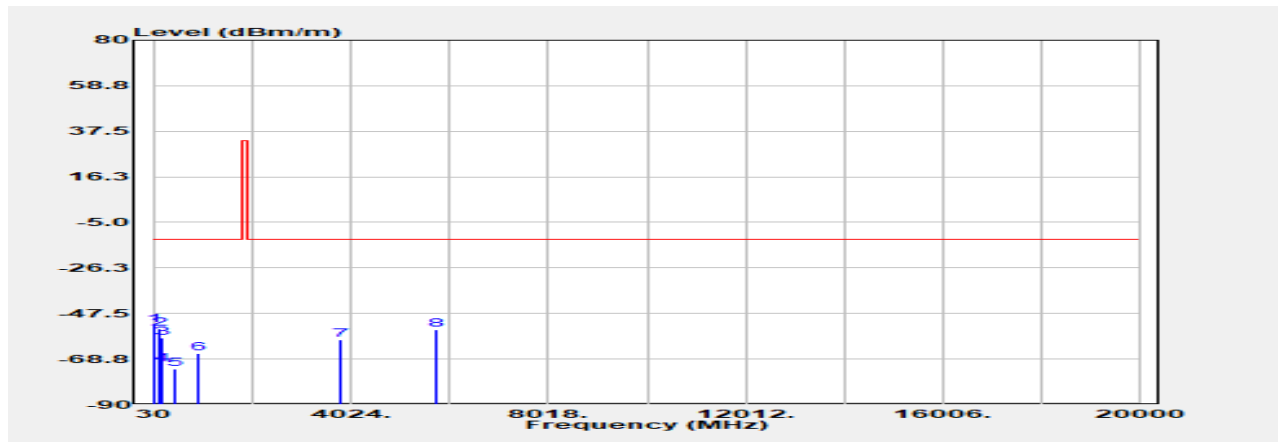
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-64.16	-44.52	-19.31	-0.33	-13.00	-51.16
144.460	-60.34	-52.63	-7.04	-0.67	-13.00	-47.34
209.450	-65.33	-63.94	-0.53	-0.86	-13.00	-52.33
242.430	-66.31	-64.56	-0.80	-0.95	-13.00	-53.31
362.710	-66.84	-65.25	-0.50	-1.09	-13.00	-53.84
958.290	-67.05	-63.77	-1.44	-1.84	-13.00	-54.05
3760.000	-57.99	-66.65	12.40	-3.74	-13.00	-44.99
5640.000	-55.95	-64.20	13.00	-4.75	-13.00	-42.95

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1909.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



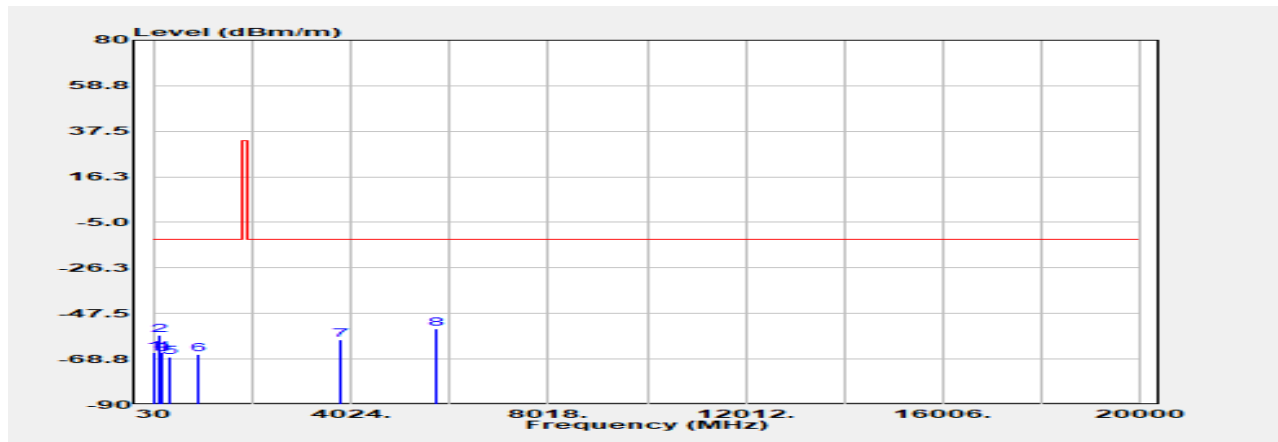
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-53.09	-41.46	-11.14	-0.49	-13.00	-40.09
144.460	-54.43	-46.72	-7.04	-0.67	-13.00	-41.43
191.990	-58.92	-56.43	-1.67	-0.82	-13.00	-45.92
217.210	-71.18	-70.15	-0.16	-0.87	-13.00	-58.18
450.010	-73.20	-71.17	-0.98	-1.05	-13.00	-60.20
922.400	-65.99	-62.77	-1.39	-1.83	-13.00	-52.99
3819.800	-59.70	-68.27	12.36	-3.79	-13.00	-46.70
5729.700	-55.07	-63.11	12.80	-4.76	-13.00	-42.07

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1909.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



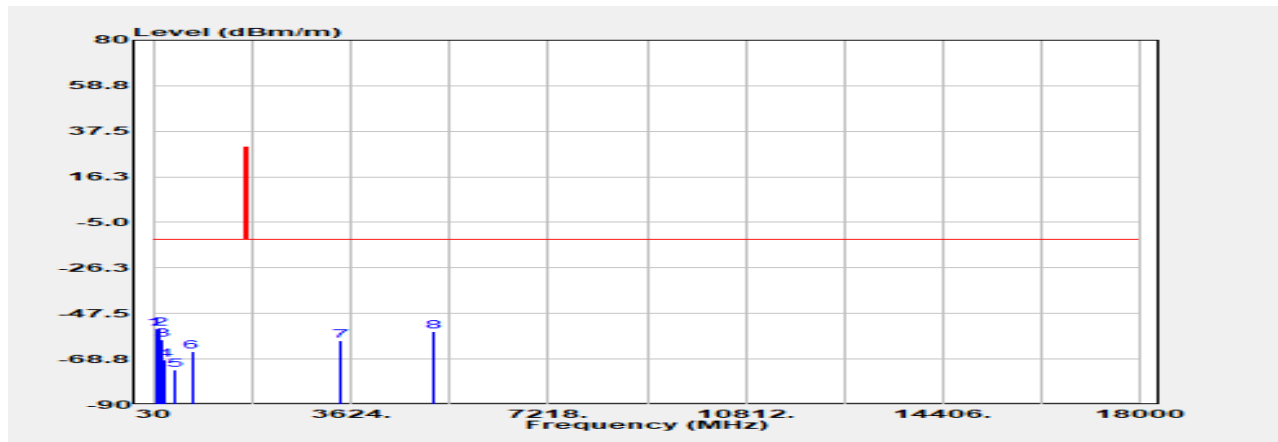
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-65.90	-54.27	-11.14	-0.49	-13.00	-52.90
144.460	-57.62	-49.91	-7.04	-0.67	-13.00	-44.62
192.960	-66.43	-63.98	-1.63	-0.82	-13.00	-53.43
226.910	-65.78	-65.11	0.22	-0.89	-13.00	-52.78
361.740	-67.74	-66.15	-0.50	-1.09	-13.00	-54.74
954.410	-66.44	-63.27	-1.35	-1.82	-13.00	-53.44
3819.800	-59.69	-68.26	12.36	-3.79	-13.00	-46.69
5729.700	-54.69	-62.73	12.80	-4.76	-13.00	-41.69

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1710.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



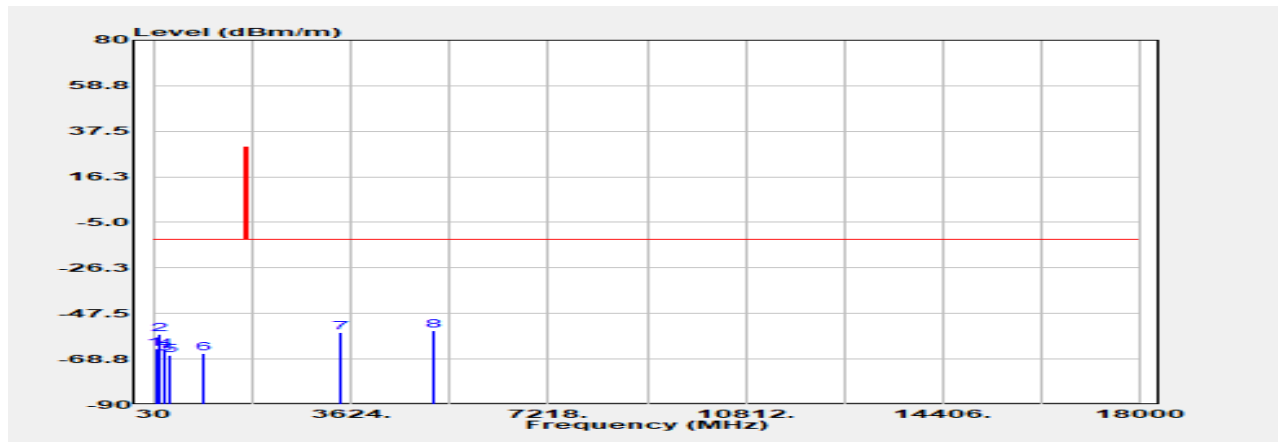
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-54.68	-43.05	-11.14	-0.49	-13.00	-41.68
144.460	-54.60	-46.89	-7.04	-0.67	-13.00	-41.60
191.990	-59.86	-57.37	-1.67	-0.82	-13.00	-46.86
226.910	-69.32	-68.65	0.22	-0.89	-13.00	-56.32
438.370	-73.68	-71.56	-0.97	-1.15	-13.00	-60.68
730.340	-65.36	-62.19	-1.17	-2.00	-13.00	-52.36
3420.200	-60.34	-69.31	12.56	-3.59	-13.00	-47.34
5130.300	-55.85	-63.48	12.10	-4.47	-13.00	-42.85

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1710.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



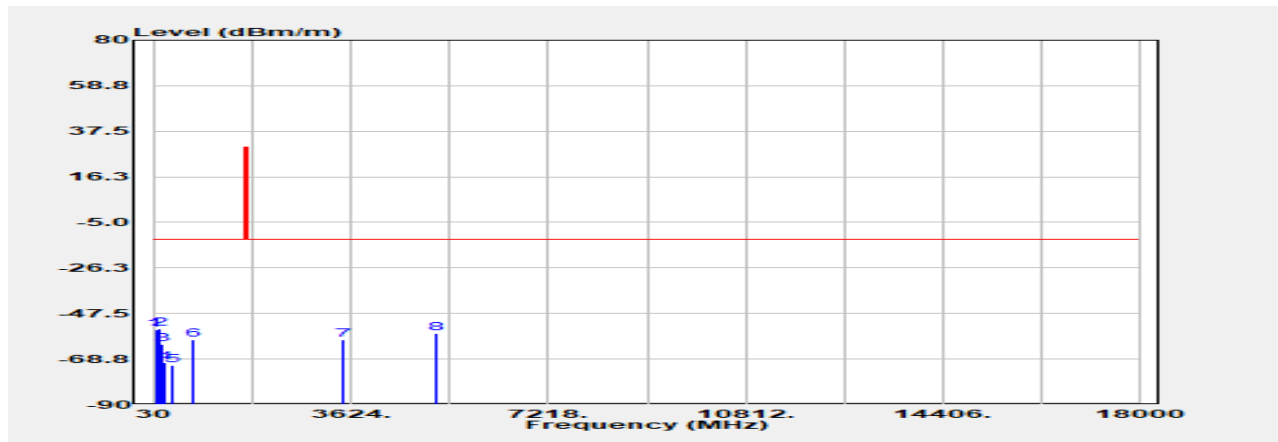
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-64.06	-52.43	-11.14	-0.49	-13.00	-51.06
144.460	-57.29	-49.58	-7.04	-0.67	-13.00	-44.29
216.240	-65.97	-64.89	-0.21	-0.87	-13.00	-52.97
217.210	-64.23	-63.20	-0.16	-0.87	-13.00	-51.23
352.040	-67.08	-65.52	-0.39	-1.17	-13.00	-54.08
954.410	-66.15	-62.98	-1.35	-1.82	-13.00	-53.15
3420.200	-56.15	-65.12	12.56	-3.59	-13.00	-43.15
5130.300	-55.30	-62.93	12.10	-4.47	-13.00	-42.30

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1732.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



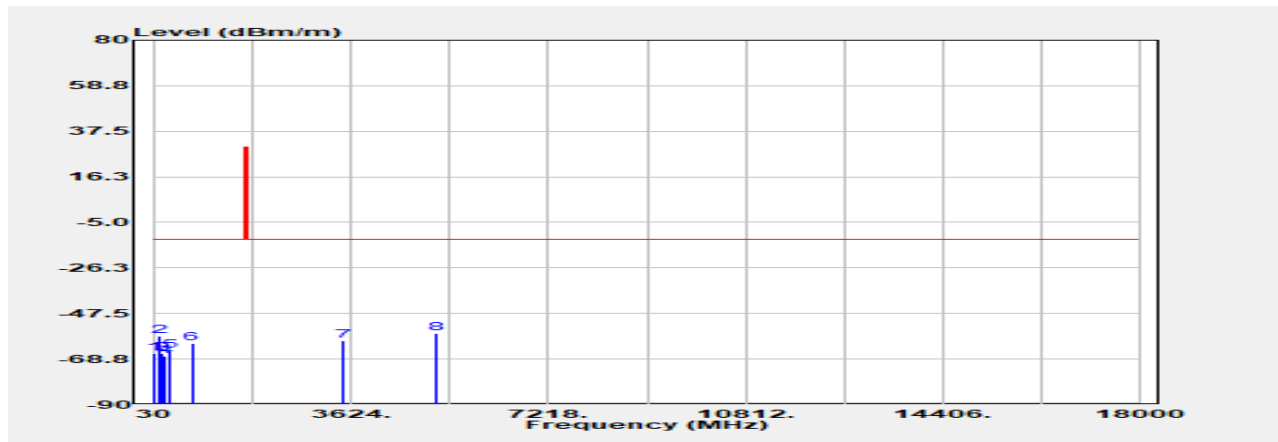
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-55.18	-43.55	-11.14	-0.49	-13.00	-42.18
144.460	-54.44	-46.73	-7.04	-0.67	-13.00	-41.44
191.990	-62.05	-59.56	-1.67	-0.82	-13.00	-49.05
231.760	-70.61	-69.61	-0.09	-0.91	-13.00	-57.61
379.200	-71.62	-69.92	-0.54	-1.16	-13.00	-58.62
739.070	-59.89	-56.63	-1.33	-1.93	-13.00	-46.89
3465.000	-59.68	-68.46	12.47	-3.69	-13.00	-46.68
5197.500	-56.68	-64.57	12.39	-4.50	-13.00	-43.68

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1732.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



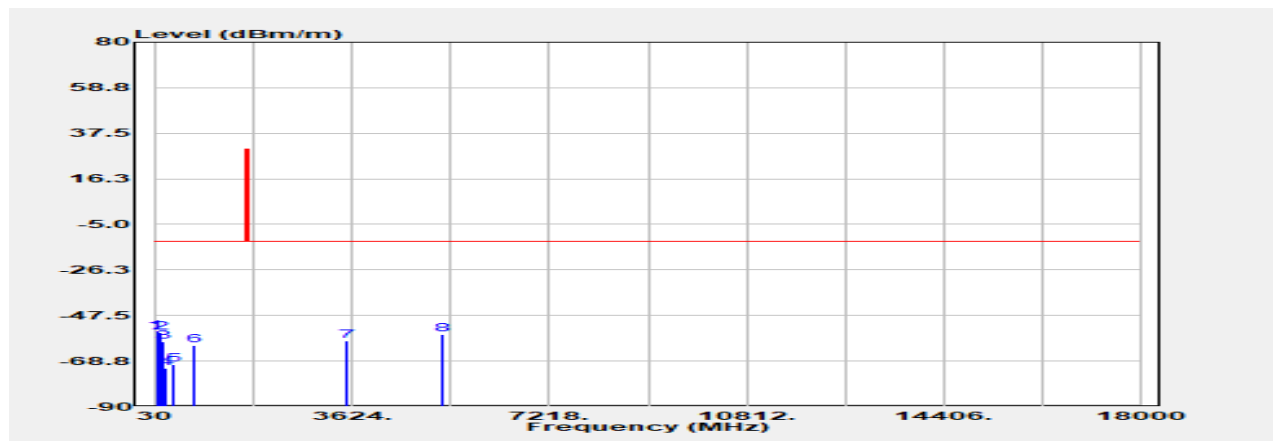
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.670	-66.04	-47.26	-18.42	-0.36	-13.00	-53.04
144.460	-58.12	-50.41	-7.04	-0.67	-13.00	-45.12
211.390	-66.33	-65.03	-0.44	-0.86	-13.00	-53.33
216.240	-67.45	-66.37	-0.21	-0.87	-13.00	-54.45
349.130	-64.74	-63.17	-0.38	-1.19	-13.00	-51.74
731.310	-61.45	-58.28	-1.18	-1.99	-13.00	-48.45
3465.000	-60.38	-69.16	12.47	-3.69	-13.00	-47.38
5197.500	-56.91	-64.80	12.39	-4.50	-13.00	-43.91

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1754.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-55.21	-43.58	-11.14	-0.49	-13.00	-42.21
144.460	-55.54	-47.83	-7.04	-0.67	-13.00	-42.54
191.990	-59.84	-57.35	-1.67	-0.82	-13.00	-46.84
237.580	-71.99	-70.47	-0.59	-0.93	-13.00	-58.99
399.570	-70.21	-68.22	-0.60	-1.39	-13.00	-57.21
741.980	-61.33	-58.04	-1.42	-1.87	-13.00	-48.33
3509.800	-59.43	-68.22	12.40	-3.61	-13.00	-46.43
5264.700	-56.27	-64.64	12.86	-4.49	-13.00	-43.27

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

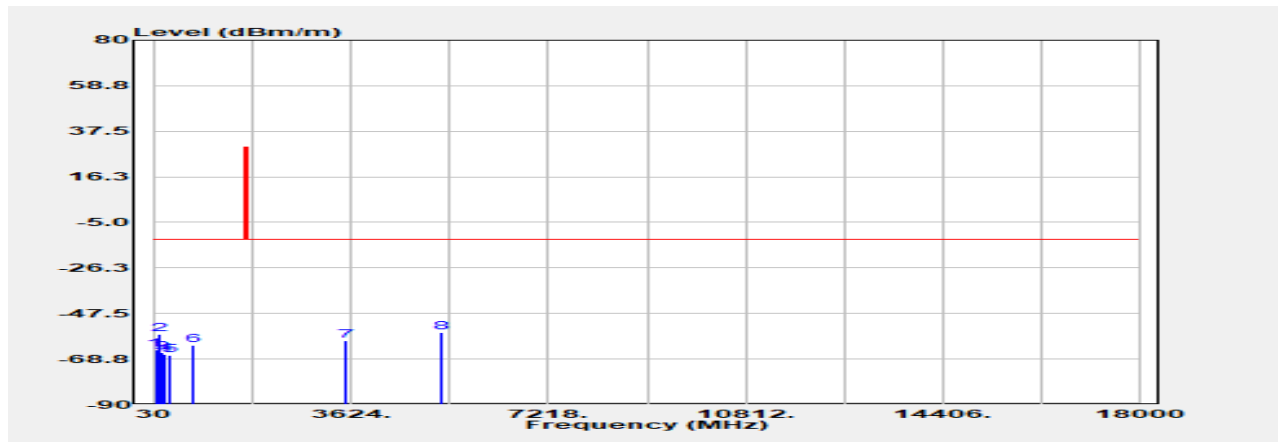
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2207001076E2
Operation Mode :NB-IoT B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1754.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



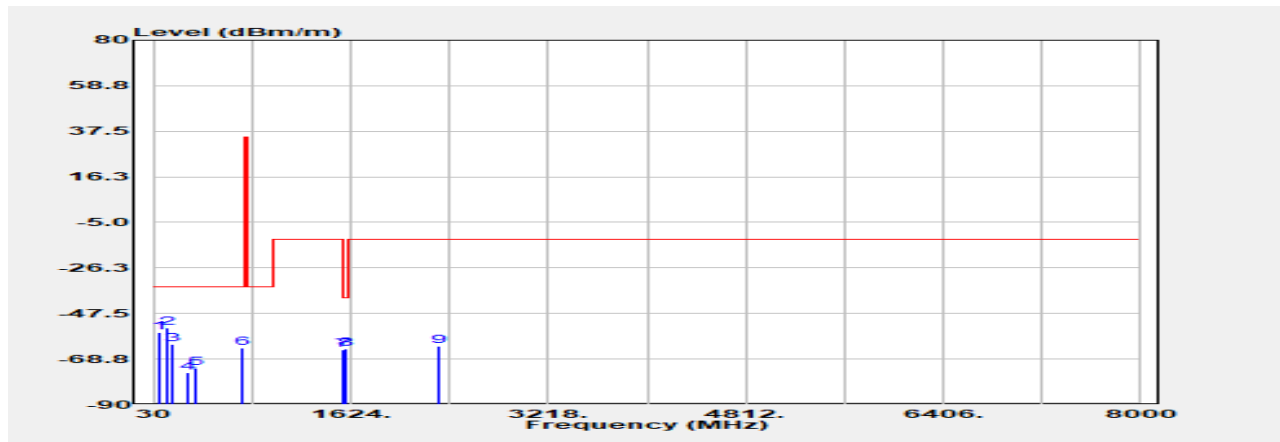
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-64.25	-52.62	-11.14	-0.49	-13.00	-51.25
144.460	-57.21	-49.50	-7.04	-0.67	-13.00	-44.21
191.990	-65.76	-63.27	-1.67	-0.82	-13.00	-52.76
216.240	-66.51	-65.43	-0.21	-0.87	-13.00	-53.51
349.130	-67.16	-65.59	-0.38	-1.19	-13.00	-54.16
740.040	-62.19	-58.91	-1.36	-1.92	-13.00	-49.19
3509.800	-59.99	-68.78	12.40	-3.61	-13.00	-46.99
5264.700	-56.17	-64.54	12.86	-4.49	-13.00	-43.17

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :777.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



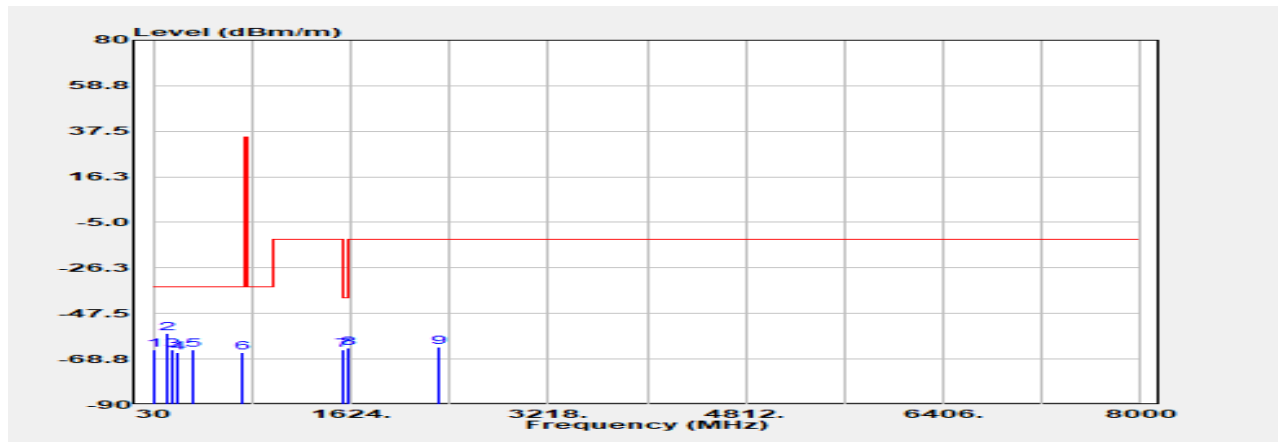
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-56.15	-44.52	-11.14	-0.49	-35.00	-21.15
144.460	-54.28	-46.57	-7.04	-0.67	-35.00	-19.28
191.990	-62.02	-59.53	-1.67	-0.82	-35.00	-27.02
310.330	-75.01	-72.86	-1.01	-1.14	-35.00	-40.01
363.680	-72.92	-71.33	-0.50	-1.09	-35.00	-37.92
740.040	-63.72	-60.44	-1.36	-1.92	-35.00	-28.72
1554.200	-64.47	-71.19	9.13	-2.41	-13.00	-51.47
1574.000	-64.08	-70.92	9.25	-2.41	-40.00	-24.08
2331.300	-62.61	-69.17	9.49	-2.93	-13.00	-49.61

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :777.1 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



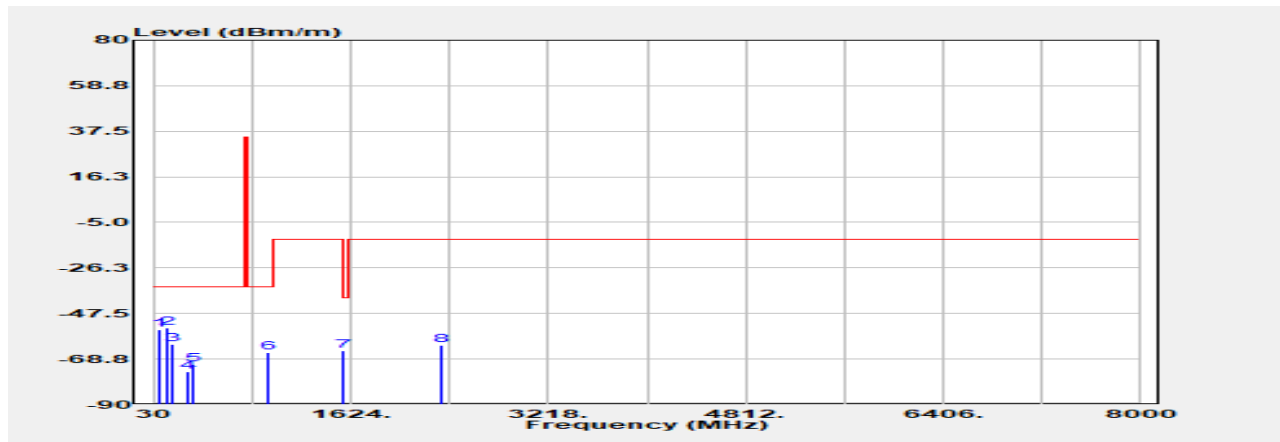
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-64.37	-44.49	-19.56	-0.32	-35.00	-29.37
144.460	-56.78	-49.07	-7.04	-0.67	-35.00	-21.78
191.990	-64.38	-61.89	-1.67	-0.82	-35.00	-29.38
216.240	-65.89	-64.81	-0.21	-0.87	-35.00	-30.89
360.770	-64.62	-63.02	-0.51	-1.09	-35.00	-29.62
744.890	-65.62	-62.32	-1.50	-1.80	-35.00	-30.62
1554.200	-64.25	-70.97	9.13	-2.41	-13.00	-51.25
1595.000	-63.69	-70.65	9.37	-2.41	-40.00	-23.69
2331.300	-63.21	-69.77	9.49	-2.93	-13.00	-50.21

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :782 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



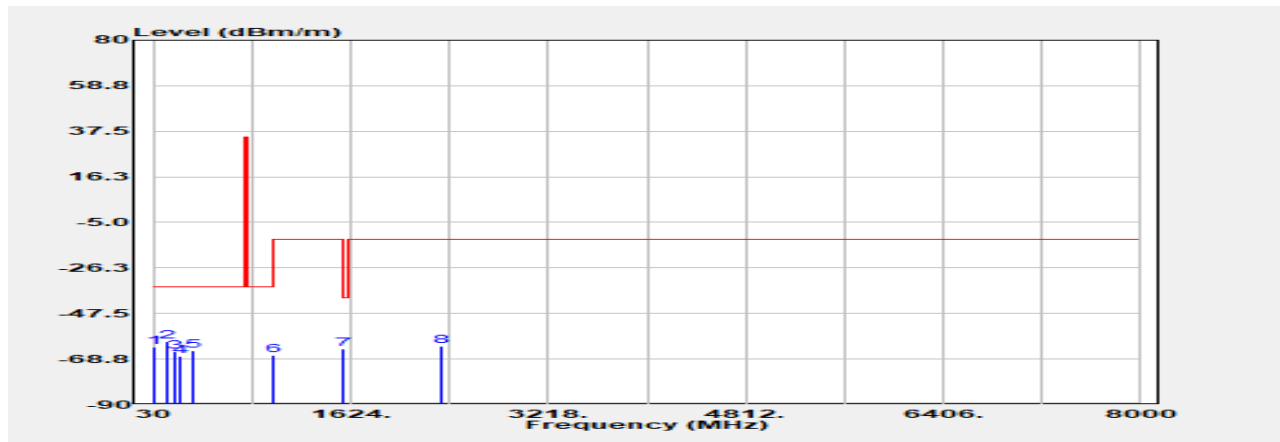
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-55.07	-43.44	-11.14	-0.49	-35.00	-20.07
144.460	-54.39	-46.68	-7.04	-0.67	-35.00	-19.39
191.990	-61.70	-59.21	-1.67	-0.82	-35.00	-26.70
319.060	-74.87	-72.66	-1.03	-1.18	-35.00	-39.87
354.950	-71.20	-69.62	-0.44	-1.14	-35.00	-36.20
962.170	-65.79	-62.46	-1.47	-1.86	-35.00	-30.79
1564.000	-64.67	-71.44	9.18	-2.41	-40.00	-24.67
2346.000	-62.12	-68.76	9.58	-2.94	-13.00	-49.12

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :782 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



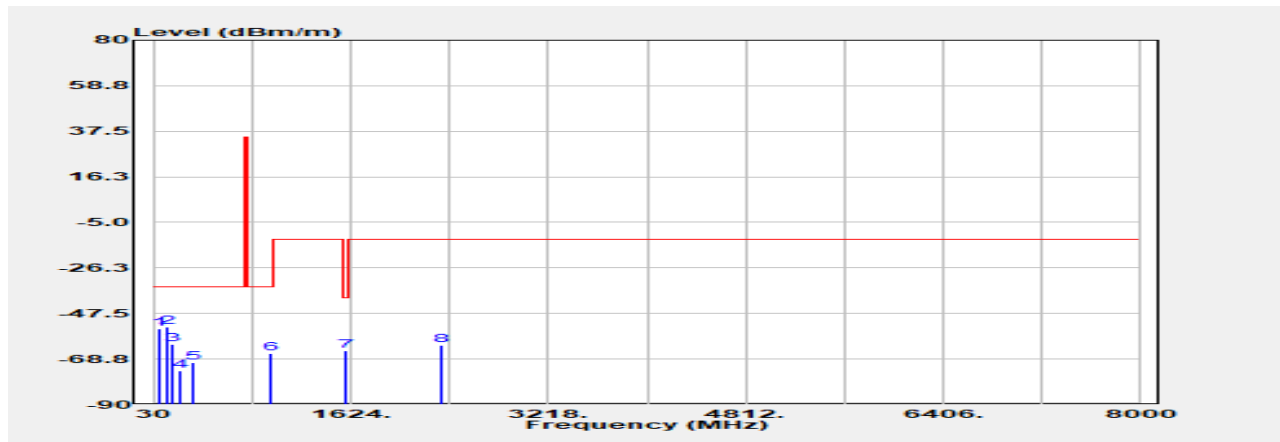
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-63.22	-43.34	-19.56	-0.32	-35.00	-28.22
144.460	-60.43	-52.72	-7.04	-0.67	-35.00	-25.43
211.390	-65.48	-64.18	-0.44	-0.86	-35.00	-30.48
246.310	-67.50	-65.69	-0.84	-0.97	-35.00	-32.50
351.070	-64.89	-63.33	-0.38	-1.18	-35.00	-29.89
992.240	-66.87	-63.72	-1.21	-1.94	-35.00	-31.87
1564.000	-63.93	-70.70	9.18	-2.41	-40.00	-23.93
2346.000	-62.86	-69.50	9.58	-2.94	-13.00	-49.86

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :786.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



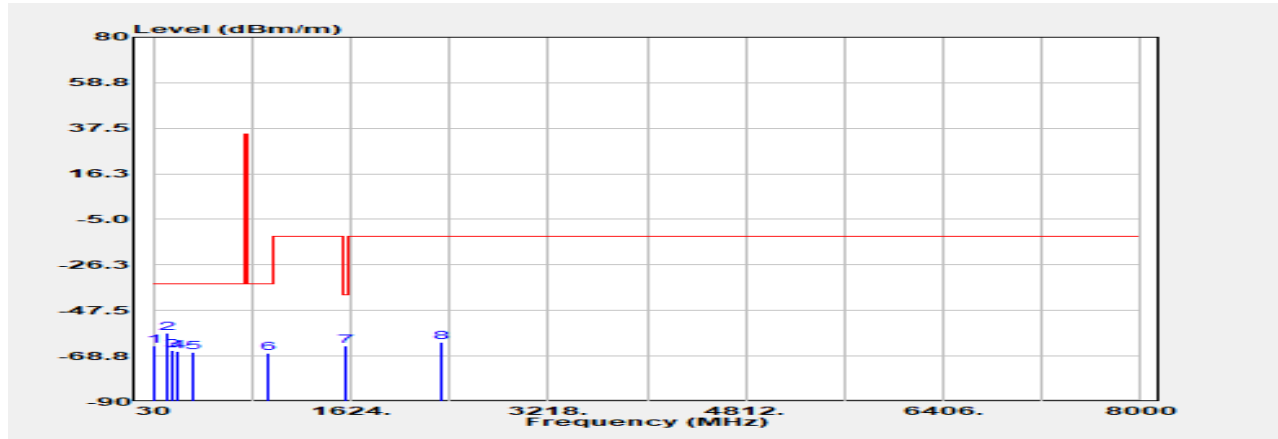
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-54.62	-42.99	-11.14	-0.49	-35.00	-19.62
144.460	-53.84	-46.13	-7.04	-0.67	-35.00	-18.84
191.990	-61.95	-59.46	-1.67	-0.82	-35.00	-26.95
242.430	-74.44	-72.69	-0.80	-0.95	-35.00	-39.44
357.860	-70.26	-68.67	-0.48	-1.11	-35.00	-35.26
967.990	-66.20	-62.88	-1.42	-1.90	-35.00	-31.20
1573.800	-65.02	-71.85	9.24	-2.41	-40.00	-25.02
2360.700	-62.42	-69.18	9.71	-2.95	-13.00	-49.42

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Report Number :TERF2207001076E2
Operation Mode :NB-IoT B13
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :786.9 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



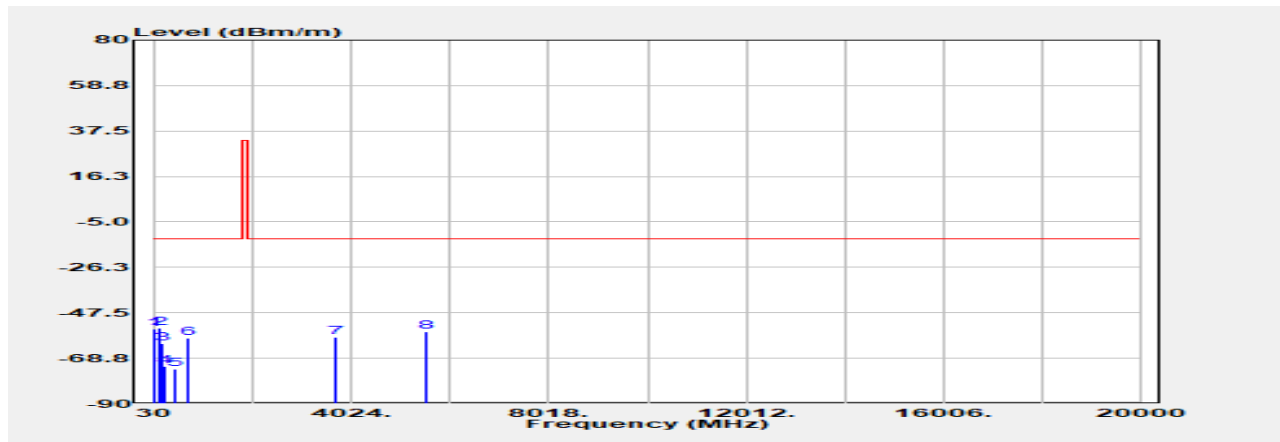
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-64.17	-44.29	-19.56	-0.32	-35.00	-29.17
144.460	-57.94	-50.23	-7.04	-0.67	-35.00	-22.94
192.960	-66.21	-63.76	-1.63	-0.82	-35.00	-31.21
216.240	-66.61	-65.53	-0.21	-0.87	-35.00	-31.61
351.070	-67.08	-65.52	-0.38	-1.18	-35.00	-32.08
957.320	-67.63	-64.39	-1.41	-1.83	-35.00	-32.63
1573.800	-64.09	-70.92	9.24	-2.41	-40.00	-24.09
2360.700	-62.39	-69.15	9.71	-2.95	-13.00	-49.39

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1851.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



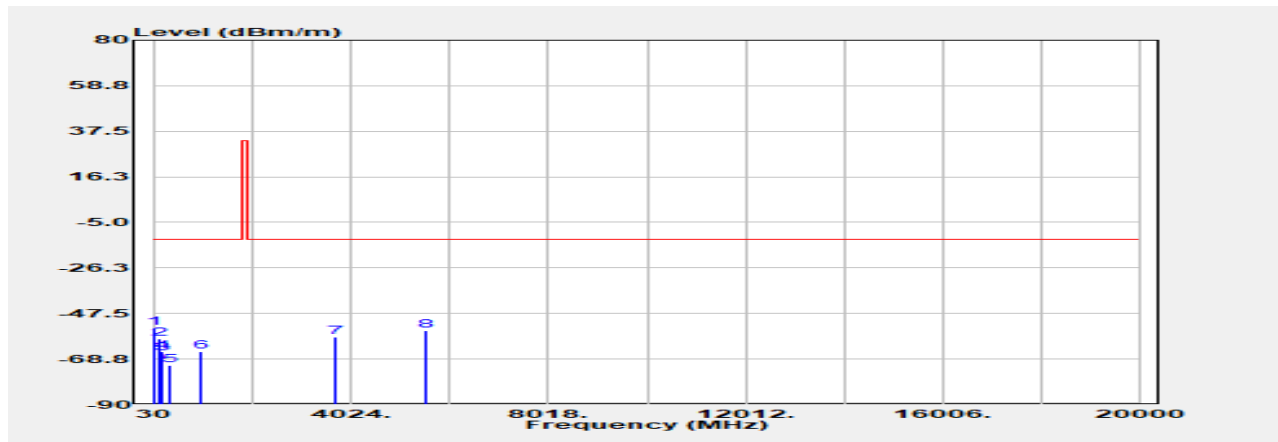
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-54.89	-43.26	-11.14	-0.49	-13.00	-41.89
144.460	-54.47	-46.76	-7.04	-0.67	-13.00	-41.47
191.990	-61.70	-59.21	-1.67	-0.82	-13.00	-48.70
254.070	-72.61	-70.82	-0.80	-0.99	-13.00	-59.61
450.010	-73.70	-71.67	-0.98	-1.05	-13.00	-60.70
744.890	-59.42	-56.12	-1.50	-1.80	-13.00	-46.42
3703.000	-58.98	-67.42	12.31	-3.87	-13.00	-45.98
5554.500	-56.49	-64.86	12.91	-4.54	-13.00	-43.49

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1851.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



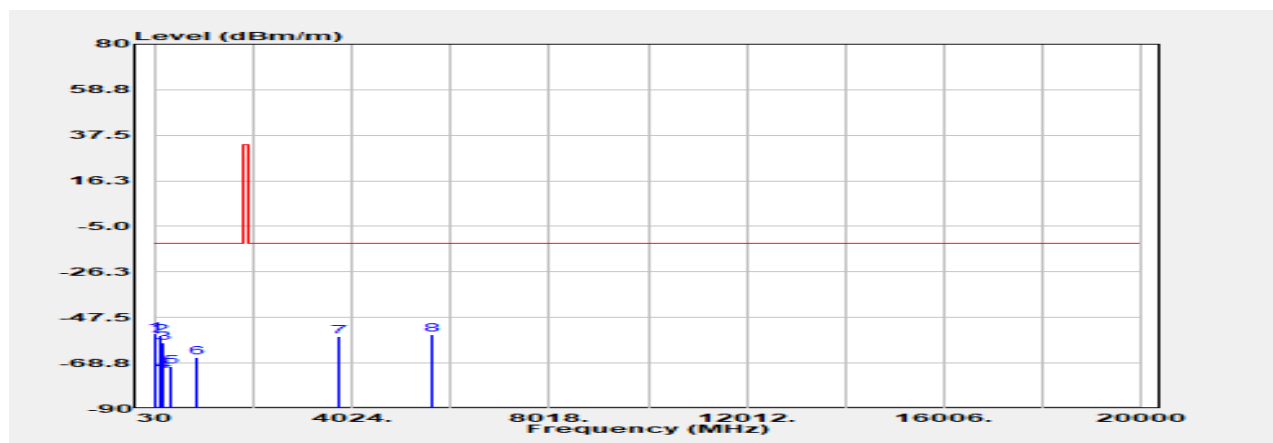
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-54.17	-34.56	-19.27	-0.34	-13.00	-41.17
144.460	-59.51	-51.80	-7.04	-0.67	-13.00	-46.51
191.990	-66.00	-63.51	-1.67	-0.82	-13.00	-53.00
220.120	-65.22	-64.36	0.02	-0.88	-13.00	-52.22
359.800	-71.50	-69.90	-0.51	-1.09	-13.00	-58.50
970.900	-65.27	-61.97	-1.39	-1.91	-13.00	-52.27
3703.000	-58.68	-67.12	12.31	-3.87	-13.00	-45.68
5554.500	-55.67	-64.04	12.91	-4.54	-13.00	-42.67

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1880 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



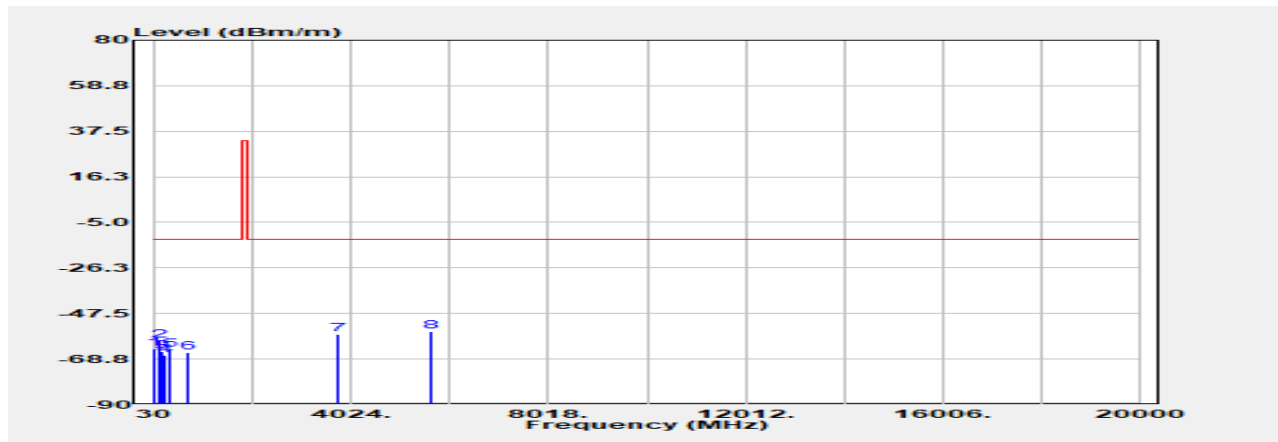
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
72.680	-54.93	-43.30	-11.14	-0.49	-13.00	-41.93
144.460	-56.00	-48.29	-7.04	-0.67	-13.00	-43.00
191.990	-59.50	-57.01	-1.67	-0.82	-13.00	-46.50
216.240	-72.51	-71.43	-0.21	-0.87	-13.00	-59.51
360.770	-70.59	-68.99	-0.51	-1.09	-13.00	-57.59
904.940	-66.20	-63.08	-1.21	-1.91	-13.00	-53.20
3760.000	-56.13	-64.79	12.40	-3.74	-13.00	-43.13
5640.000	-55.65	-63.90	13.00	-4.75	-13.00	-42.65

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1880 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



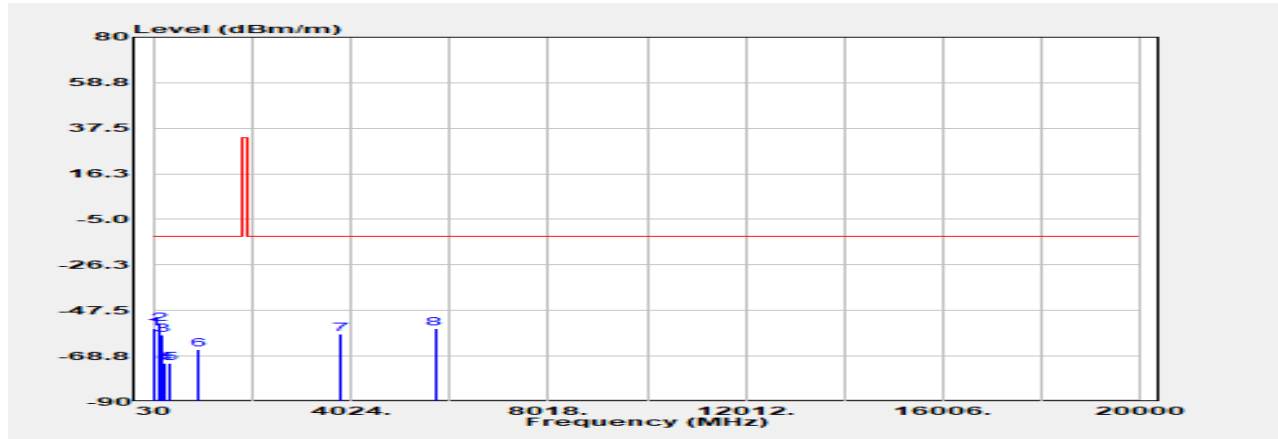
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-63.89	-52.26	-11.14	-0.49	-13.00	-50.89
144.460	-60.14	-52.43	-7.04	-0.67	-13.00	-47.14
211.390	-65.38	-64.08	-0.44	-0.86	-13.00	-52.38
248.250	-66.81	-65.02	-0.81	-0.98	-13.00	-53.81
356.890	-64.58	-62.99	-0.47	-1.12	-13.00	-51.58
729.370	-65.60	-62.45	-1.16	-1.99	-13.00	-52.60
3760.000	-57.28	-65.94	12.40	-3.74	-13.00	-44.28
5640.000	-56.12	-64.37	13.00	-4.75	-13.00	-43.12

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1908.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



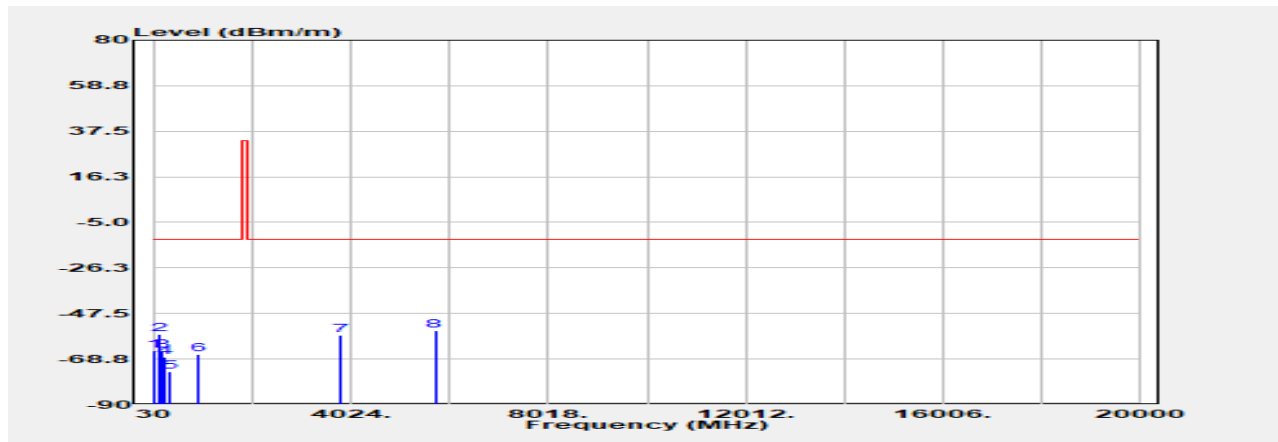
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-55.78	-44.15	-11.14	-0.49	-13.00	-42.78
144.460	-53.82	-46.11	-7.04	-0.67	-13.00	-40.82
191.990	-58.93	-56.44	-1.67	-0.82	-13.00	-45.93
247.280	-72.13	-70.33	-0.82	-0.98	-13.00	-59.13
386.960	-72.14	-70.33	-0.57	-1.24	-13.00	-59.14
957.320	-65.72	-62.48	-1.41	-1.83	-13.00	-52.72
3817.000	-58.42	-67.00	12.37	-3.79	-13.00	-45.42
5725.500	-55.75	-63.81	12.80	-4.74	-13.00	-42.75

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B2
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1908.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



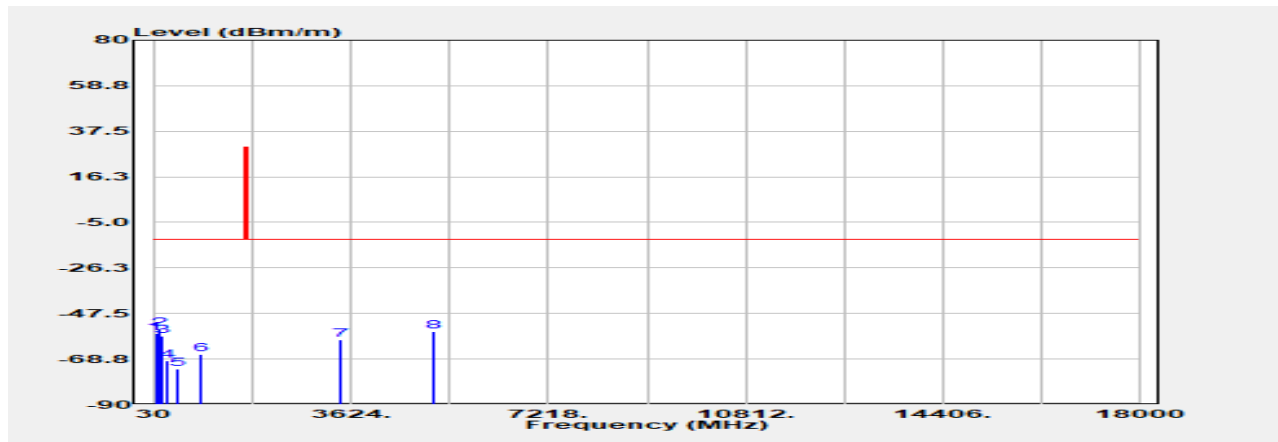
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-64.81	-53.18	-11.14	-0.49	-13.00	-51.81
144.460	-57.29	-49.58	-7.04	-0.67	-13.00	-44.29
191.990	-65.06	-62.57	-1.67	-0.82	-13.00	-52.06
237.580	-68.04	-66.52	-0.59	-0.93	-13.00	-55.04
361.740	-74.55	-72.96	-0.50	-1.09	-13.00	-61.55
956.350	-66.59	-63.38	-1.38	-1.83	-13.00	-53.59
3817.000	-57.53	-66.11	12.37	-3.79	-13.00	-44.53
5725.500	-55.67	-63.73	12.80	-4.74	-13.00	-42.67

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1715 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



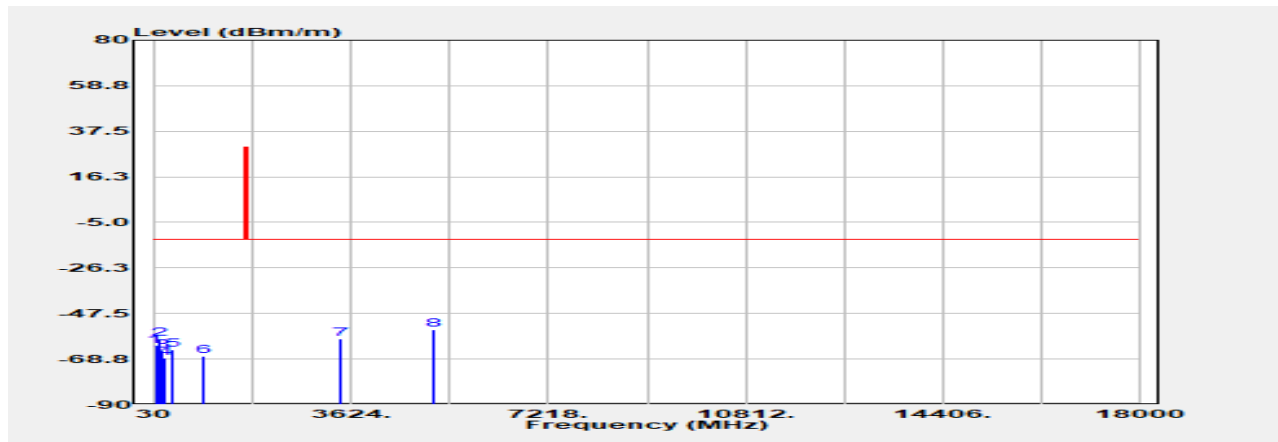
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-56.90	-45.27	-11.14	-0.49	-13.00	-43.90
144.460	-54.57	-46.86	-7.04	-0.67	-13.00	-41.57
191.990	-58.01	-55.52	-1.67	-0.82	-13.00	-45.01
299.660	-69.47	-67.40	-1.00	-1.07	-13.00	-56.47
451.950	-73.30	-71.25	-0.98	-1.07	-13.00	-60.30
914.640	-66.52	-63.32	-1.31	-1.89	-13.00	-53.52
3430.000	-59.89	-68.79	12.54	-3.64	-13.00	-46.89
5145.000	-55.84	-63.45	12.10	-4.49	-13.00	-42.84

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1715 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



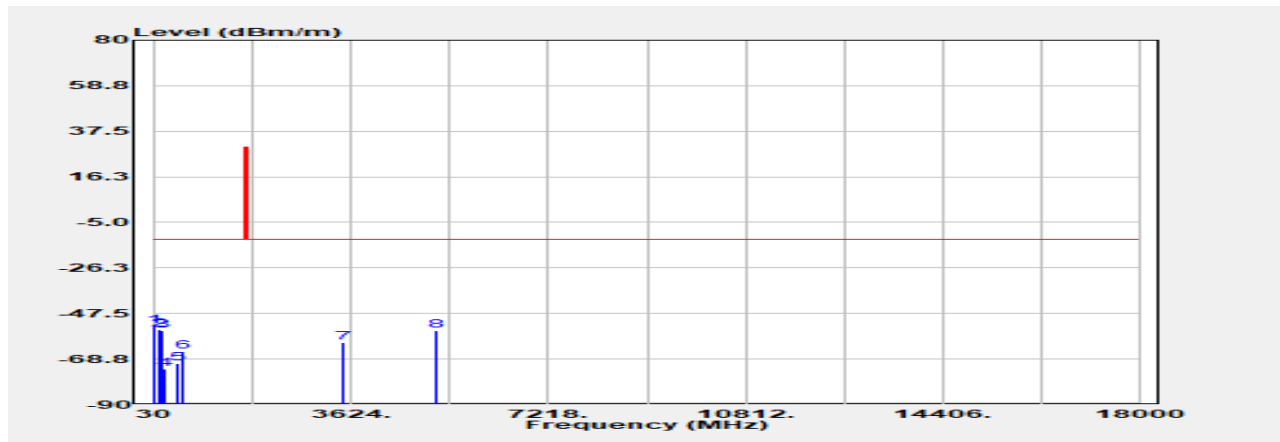
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
72.680	-62.75	-51.12	-11.14	-0.49	-13.00	-49.75
144.460	-59.24	-51.53	-7.04	-0.67	-13.00	-46.24
192.960	-64.67	-62.22	-1.63	-0.82	-13.00	-51.67
220.120	-68.10	-67.24	0.02	-0.88	-13.00	-55.10
358.830	-64.58	-62.99	-0.49	-1.10	-13.00	-51.58
964.110	-67.39	-64.06	-1.46	-1.87	-13.00	-54.39
3430.000	-59.43	-68.33	12.54	-3.64	-13.00	-46.43
5145.000	-55.23	-62.84	12.10	-4.49	-13.00	-42.23

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1732.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



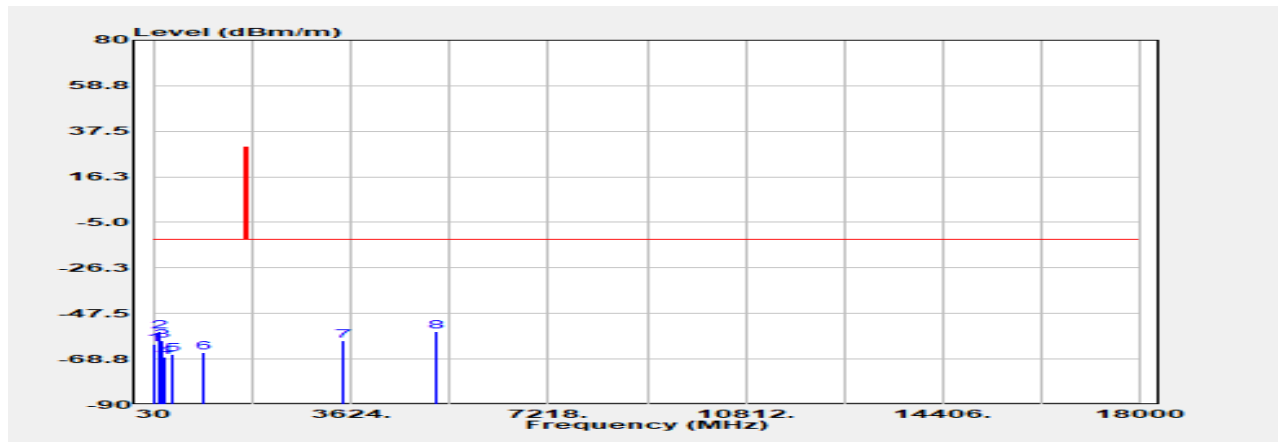
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.460	-53.17	-35.25	-17.52	-0.40	-13.00	-40.17
144.460	-55.02	-47.31	-7.04	-0.67	-13.00	-42.02
191.990	-55.65	-53.16	-1.67	-0.82	-13.00	-42.65
242.430	-73.56	-71.81	-0.80	-0.95	-13.00	-60.56
454.860	-70.79	-68.70	-0.98	-1.11	-13.00	-57.79
586.780	-65.11	-62.47	-1.04	-1.60	-13.00	-52.11
3465.000	-60.90	-69.68	12.47	-3.69	-13.00	-47.90
5197.500	-55.68	-63.57	12.39	-4.50	-13.00	-42.68

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1732.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



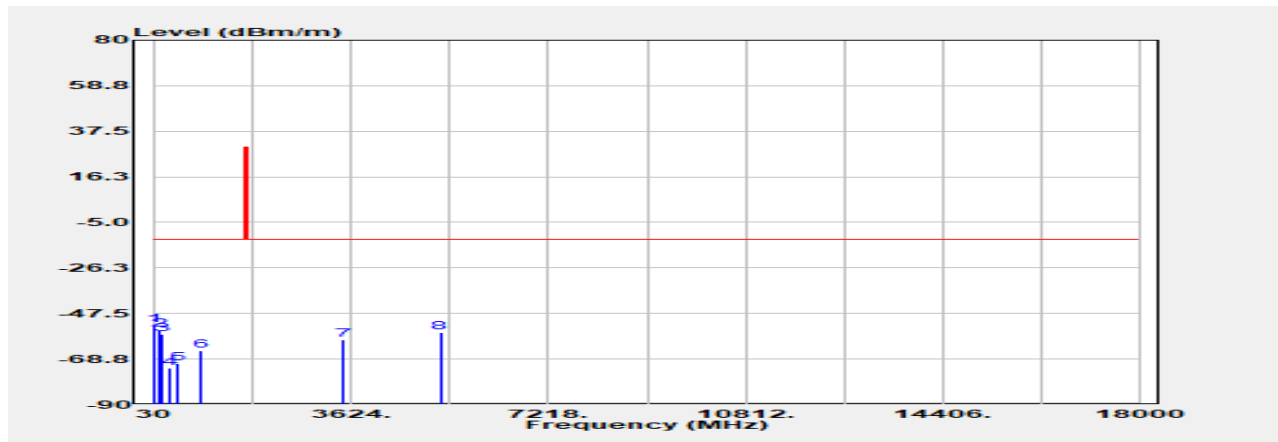
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.430	-61.76	-44.10	-17.26	-0.40	-13.00	-48.76
144.460	-56.05	-48.34	-7.04	-0.67	-13.00	-43.05
191.990	-60.29	-57.80	-1.67	-0.82	-13.00	-47.29
242.430	-67.93	-66.18	-0.80	-0.95	-13.00	-54.93
361.740	-66.78	-65.19	-0.50	-1.09	-13.00	-53.78
956.350	-65.86	-62.65	-1.38	-1.83	-13.00	-52.86
3465.000	-60.01	-68.79	12.47	-3.69	-13.00	-47.01
5197.500	-55.91	-63.80	12.39	-4.50	-13.00	-42.91

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1750 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



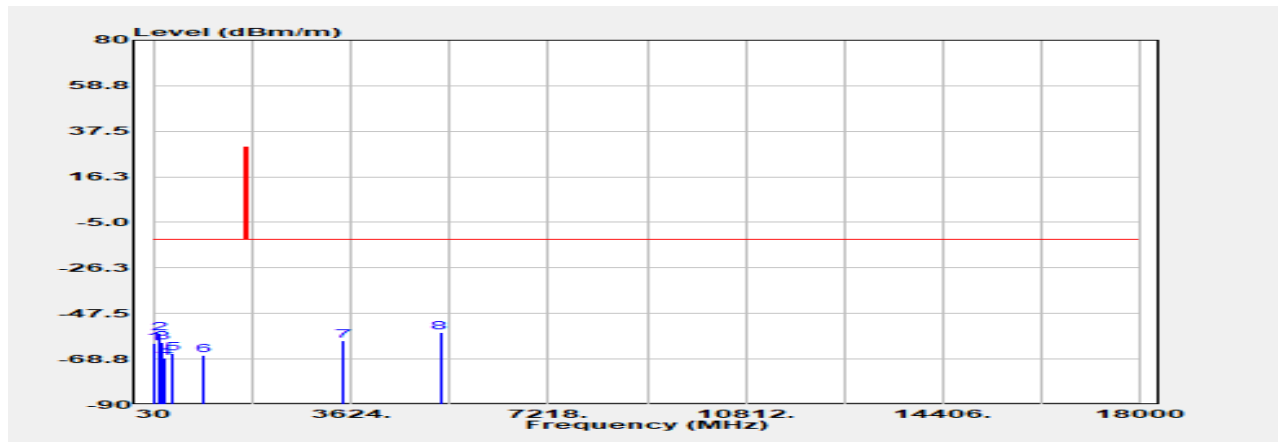
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.490	-52.86	-34.78	-17.69	-0.39	-13.00	-39.86
144.460	-55.05	-47.34	-7.04	-0.67	-13.00	-42.05
191.990	-57.13	-54.64	-1.67	-0.82	-13.00	-44.13
344.280	-72.83	-71.12	-0.50	-1.21	-13.00	-59.83
450.980	-70.82	-68.78	-0.98	-1.06	-13.00	-57.82
905.910	-64.89	-61.75	-1.22	-1.92	-13.00	-51.89
3500.000	-59.91	-68.73	12.40	-3.58	-13.00	-46.91
5250.000	-56.37	-64.70	12.80	-4.47	-13.00	-43.37

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B4
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :1750 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



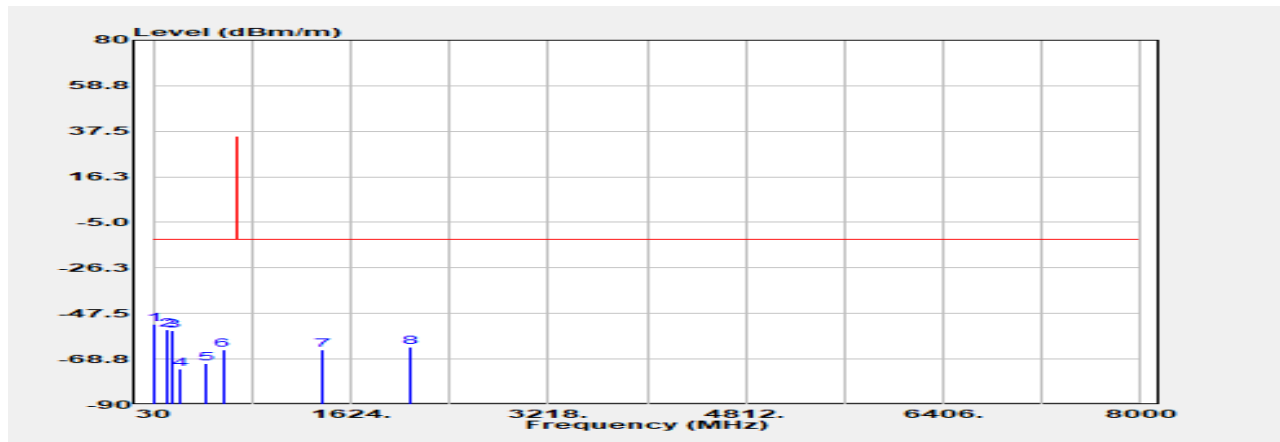
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.430	-61.59	-43.93	-17.26	-0.40	-13.00	-48.59
144.460	-56.83	-49.12	-7.04	-0.67	-13.00	-43.83
191.990	-61.23	-58.74	-1.67	-0.82	-13.00	-48.23
243.400	-68.08	-66.30	-0.82	-0.96	-13.00	-55.08
356.890	-66.26	-64.67	-0.47	-1.12	-13.00	-53.26
958.290	-67.17	-63.89	-1.44	-1.84	-13.00	-54.17
3500.000	-60.03	-68.85	12.40	-3.58	-13.00	-47.03
5250.000	-56.51	-64.84	12.80	-4.47	-13.00	-43.51

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :699.7 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



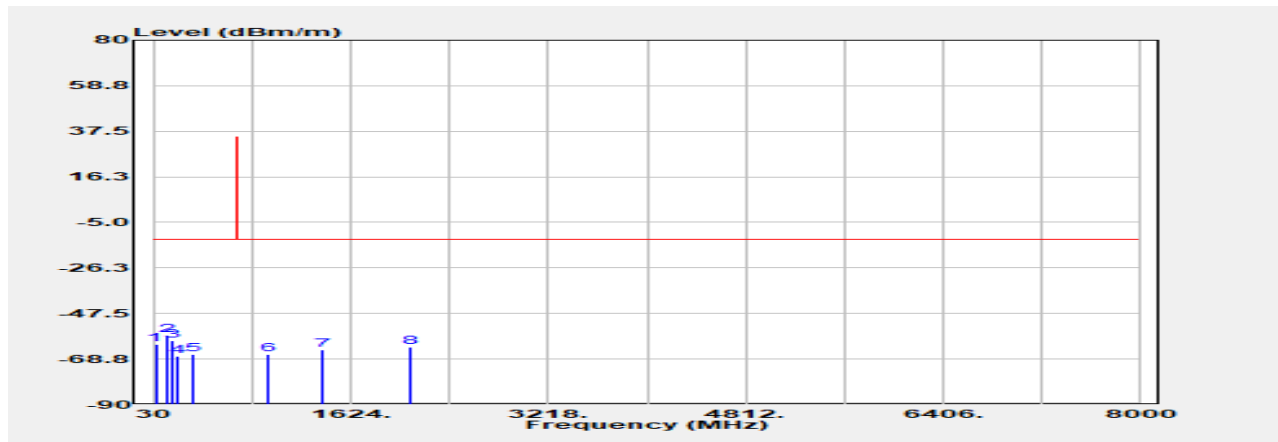
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.490	-52.65	-34.57	-17.69	-0.39	-13.00	-39.65
144.460	-54.95	-47.24	-7.04	-0.67	-13.00	-41.95
191.990	-55.58	-53.09	-1.67	-0.82	-13.00	-42.58
242.430	-73.24	-71.49	-0.80	-0.95	-13.00	-60.24
451.950	-70.89	-68.84	-0.98	-1.07	-13.00	-57.89
591.630	-64.38	-61.78	-1.13	-1.47	-13.00	-51.38
1399.400	-64.56	-69.88	7.59	-2.27	-13.00	-51.56
2099.100	-63.33	-70.44	9.90	-2.79	-13.00	-50.33

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :699.7 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



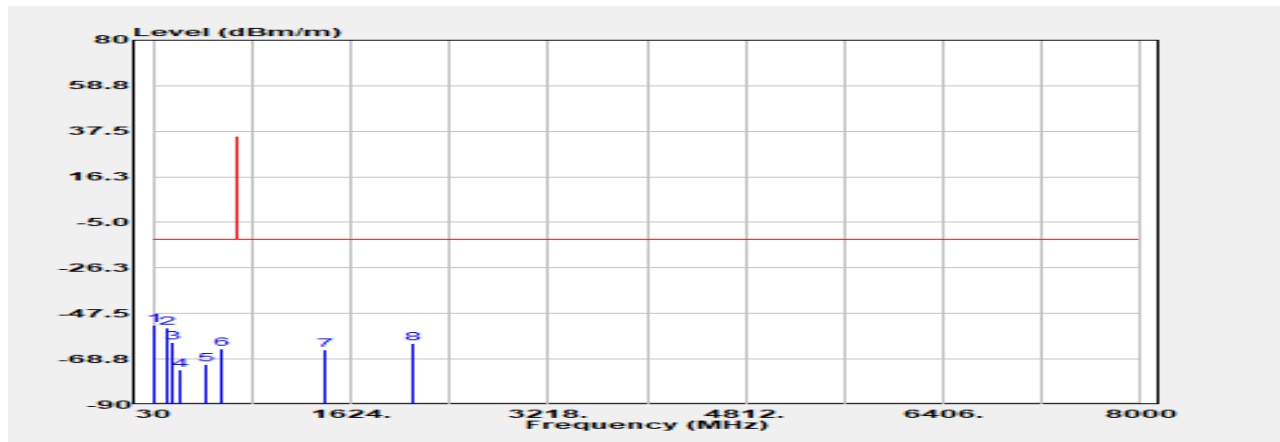
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.430	-61.78	-44.12	-17.26	-0.40	-13.00	-48.78
144.460	-57.56	-49.85	-7.04	-0.67	-13.00	-44.56
191.990	-60.08	-57.59	-1.67	-0.82	-13.00	-47.08
226.910	-67.55	-66.88	0.22	-0.89	-13.00	-54.55
357.860	-66.38	-64.79	-0.48	-1.11	-13.00	-53.38
958.290	-66.76	-63.48	-1.44	-1.84	-13.00	-53.76
1399.400	-64.60	-69.92	7.59	-2.27	-13.00	-51.60
2099.100	-63.10	-70.21	9.90	-2.79	-13.00	-50.10

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :707.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Vertical
Engineer :Howard Huang



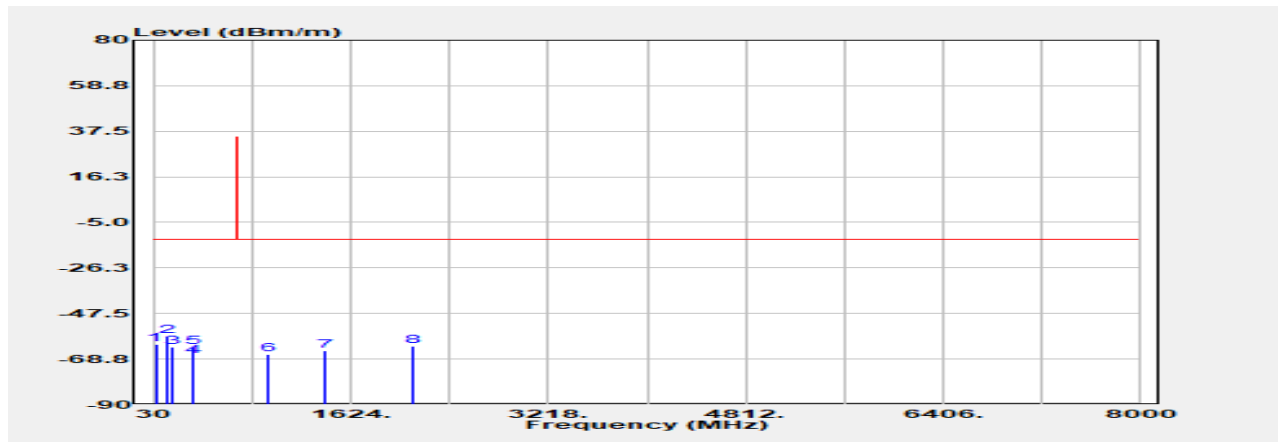
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.460	-53.05	-35.13	-17.52	-0.40	-13.00	-40.05
144.460	-54.37	-46.66	-7.04	-0.67	-13.00	-41.37
191.990	-61.12	-58.63	-1.67	-0.82	-13.00	-48.12
243.400	-73.73	-71.95	-0.82	-0.96	-13.00	-60.73
464.560	-71.04	-68.90	-0.89	-1.25	-13.00	-58.04
590.660	-64.11	-61.49	-1.12	-1.50	-13.00	-51.11
1415.000	-64.60	-70.04	7.72	-2.28	-13.00	-51.60
2122.500	-61.34	-68.17	9.63	-2.80	-13.00	-48.34

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :707.5 MHz

Test Site :SAC D
Test Date :2022-08-16
Temp./Humi. :24.0/61
Antenna Pol. :Horizontal
Engineer :Howard Huang



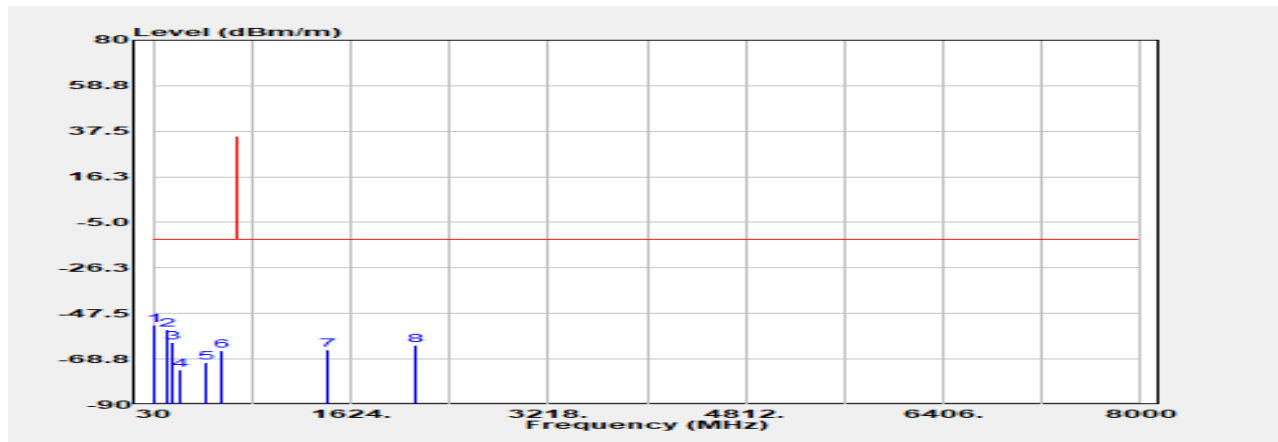
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
48.430	-61.67	-44.01	-17.26	-0.40	-13.00	-48.67
144.460	-58.08	-50.37	-7.04	-0.67	-13.00	-45.08
191.990	-63.01	-60.52	-1.67	-0.82	-13.00	-50.01
342.340	-67.28	-65.51	-0.55	-1.22	-13.00	-54.28
356.890	-63.03	-61.44	-0.47	-1.12	-13.00	-50.03
961.200	-66.43	-63.09	-1.48	-1.86	-13.00	-53.43
1415.000	-64.77	-70.21	7.72	-2.28	-13.00	-51.77
2122.500	-62.72	-69.55	9.63	-2.80	-13.00	-49.72

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :715.3 MHz

Test Site :SAC D
Test Date :2022-08-25
Temp./Humi. :23.6/64
Antenna Pol. :Vertical
Engineer :Howard Huang



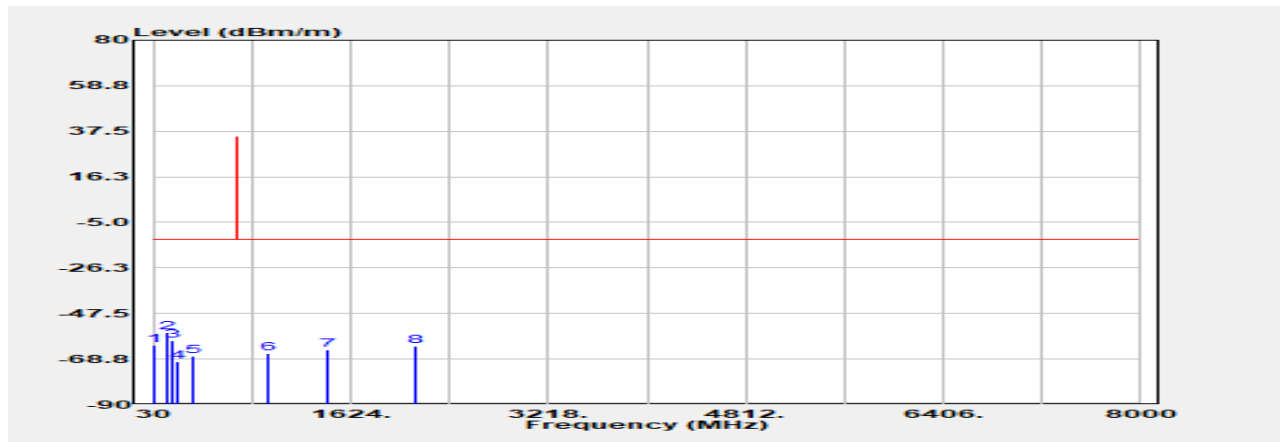
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.460	-52.97	-35.05	-17.52	-0.40	-13.00	-39.97
144.460	-55.22	-47.51	-7.04	-0.67	-13.00	-42.22
191.990	-61.05	-58.56	-1.67	-0.82	-13.00	-48.05
240.490	-73.89	-72.20	-0.75	-0.94	-13.00	-60.89
457.770	-70.27	-68.21	-0.92	-1.14	-13.00	-57.27
587.750	-64.80	-62.15	-1.07	-1.58	-13.00	-51.80
1430.600	-64.34	-69.90	7.85	-2.29	-13.00	-51.34
2145.900	-62.46	-69.00	9.35	-2.81	-13.00	-49.46

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Report Number :TERF2207001076E2
Operation Mode :Cat-M1 B12
Test Mode :TX
EUT Pol :E2 Plane
Test Frequency :715.3 MHz

Test Site :SAC D
Test Date :2022-08-25
Temp./Humi. :23.6/64
Antenna Pol. :Horizontal
Engineer :Howard Huang



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-62.21	-42.57	-19.31	-0.33	-13.00	-49.21
144.460	-56.48	-48.77	-7.04	-0.67	-13.00	-43.48
191.990	-60.13	-57.64	-1.67	-0.82	-13.00	-47.13
217.210	-70.03	-69.00	-0.16	-0.87	-13.00	-57.03
354.950	-67.36	-65.78	-0.44	-1.14	-13.00	-54.36
960.230	-65.97	-62.63	-1.49	-1.85	-13.00	-52.97
1430.600	-64.38	-69.94	7.85	-2.29	-13.00	-51.38
2145.900	-62.61	-69.15	9.35	-2.81	-13.00	-49.61

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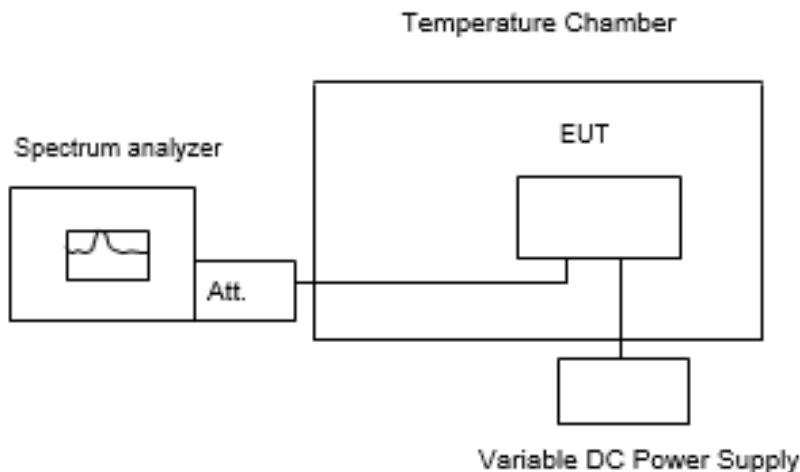
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicable

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

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

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

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

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

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11.4 Measurement Result

Note: The battery is rated 3.7Vdc.

11.4.1 NB IoT

NB-IoT Band 2 1880 MHz				
Limit: within frequency block				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Frequency error (PPM)
FREQUENCY ERROR vs. VOLTAGE				
4.26	20	1880.000042	42	0.022
3.70	20	1879.999966	34	-0.018
3.15	20	1879.99992	80	-0.043
3(End point)	20	1880.000011	11	0.006
FREQUENCY ERROR vs. Temp.				
3.70	50	1880.00006	55	0.029
3.70	40	1880.00003	33	0.018
3.70	30	1879.99991	87	-0.046
3.70	20	1880.00008	82	0.044
3.70	10	1880.00008	79	0.042
3.70	0	1880.00004	36	0.019
3.70	-10	1880.00002	24	0.013
3.70	-20	1880.00002	22	0.012
3.70	-30	1879.99992	85	-0.045

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NB-IoT Band 4 1733 MHz				
Limit: within frequency block				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Frequency error (PPM)
FREQUENCY ERROR vs. VOLTAGE				
4.26	20	1732.500071	71	0.041
3.70	20	1732.499901	99	-0.057
3.15	20	1732.499905	95	-0.055
3(End point)	20	1732.499995	5	-0.003
FREQUENCY ERROR vs. Temp.				
3.70	50	1732.50005	47	0.027
3.70	40	1732.50006	58	0.033
3.70	30	1732.50006	58	0.033
3.70	20	1732.49998	16	-0.009
3.70	10	1732.49999	15	-0.009
3.70	0	1732.50004	41	0.024
3.70	-10	1732.50001	14	0.008
3.70	-20	1732.50009	86	0.050
3.70	-30	1732.50000	1	0.001

NB-IoT Band 13 782 MHz				
Limit: within frequency block				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Frequency error (PPM)
FREQUENCY ERROR vs. VOLTAGE				
4.26	20	781.999937	63	-0.081
3.70	20	781.999924	76	-0.097
3.15	20	782.000002	2	0.003
3(End point)	20	781.999977	23	-0.029
FREQUENCY ERROR vs. Temp.				
3.70	50	781.99992	78	-0.100
3.70	40	782.00007	74	0.095
3.70	30	782.00002	16	0.020
3.70	20	781.99992	78	-0.100
3.70	10	781.99997	30	-0.038
3.70	0	781.99992	78	-0.100
3.70	-10	781.99994	60	-0.077
3.70	-20	781.99991	86	-0.110
3.70	-30	782.00006	55	0.070

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11.4.2 Cat M1

Reference Freq.:		M1 B2 Mid Channel	1880.0000	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
Freq. ERROR vs. VOLTAGE				
4.255	25	1879.999994	-0.0031	+/- 2.5 ppm
3.7	25	1880.000000	0.0001	
3.145	25	1879.999990	-0.0053	
3 (End Point)	25	1880.000001	0.0004	
Freq. ERROR vs. Temp.				
3.7	-30	1879.999990	-0.0053	+/- 2.5 ppm
3.7	-20	1879.999991	-0.0048	
3.7	-10	1880.000009	0.0050	
3.7	0	1880.000001	0.0005	
3.7	10	1879.999996	-0.0020	
3.7	20	1880.000001	0.0006	
3.7	30	1879.999992	-0.0045	
3.7	40	1880.000006	0.0033	
3.7	50	1880.000000	-0.0001	

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Reference Freq.:		M1 B4 Mid Channel	1732.5000	MHz	10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.255	25	1732.499990	-0.0056	+/- 2.5 ppm	
3.7	25	1732.499993	-0.0039		
3.145	25	1732.499997	-0.0017		
3 (End Point)	25	1732.499999	-0.0009		
Freq. ERROR vs. Temp.					
3.7	-30	1732.499995	-0.0027	+/- 2.5 ppm	
3.7	-20	1732.499995	-0.0031		
3.7	-10	1732.500008	0.0046		
3.7	0	1732.500004	0.0021		
3.7	10	1732.499993	-0.0043		
3.7	20	1732.499996	-0.0021		
3.7	30	1732.499992	-0.0046		
3.7	40	1732.500002	0.0009		
3.7	50	1732.499992	-0.0044		
Reference Freq.:		M1 B12 Mid Channel	707.5000	MHz	10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.255	25	707.499996	-0.0059	+/- 2.5 ppm	
3.7	25	707.499999	-0.0021		
3.145	25	707.500008	0.0116		
3 (End Point)	25	707.499993	-0.0100		
Freq. ERROR vs. Temp.					
3.7	-30	707.500009	0.0126	+/- 2.5 ppm	
3.7	-20	707.500000	0.0001		
3.7	-10	707.499996	-0.0064		
3.7	0	707.499999	-0.0010		
3.7	10	707.499995	-0.0075		
3.7	20	707.500002	0.0031		
3.7	30	707.500009	0.0122		
3.7	40	707.500010	0.0134		
3.7	50	707.499994	-0.0092		

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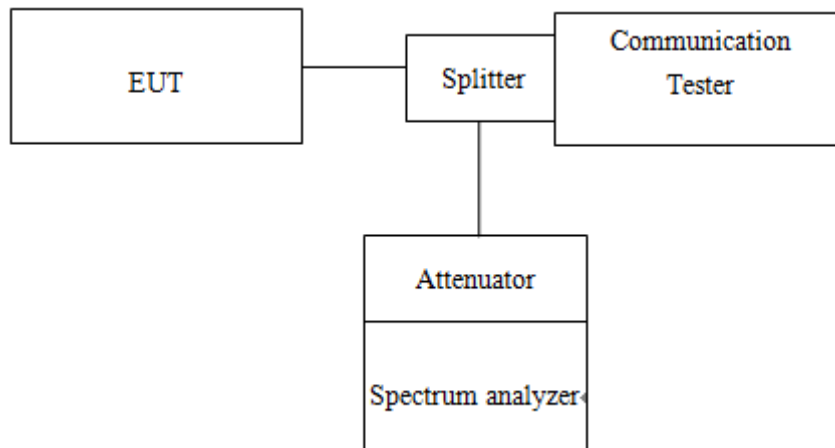
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

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

12.2 Test SET-UP



12.3 Measurement Procedure

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

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12.4 Measurement Result

12.4.1 NB IoT

NB-IoT Band 2					
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Peak-to-Average Power Ratio(dB)
18601	1850.1	BPSK	15	1@0	9.65
		QPSK	15	12@0	9.67
18900	1880	BPSK	15	1@0	8.54
		QPSK	15	12@0	4.66
19199	1909.9	BPSK	15	1@0	9.3
		QPSK	15	12@0	4.78

NB-IoT Band 4					
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Peak-to-Average Power Ratio(dB)
19951	1710.1	BPSK	15	1@0	5.6
		QPSK	15	12@0	11.61
20175	1732.5	BPSK	15	1@0	12.12
		QPSK	15	12@0	5.94
20399	1754.9	BPSK	15	1@0	9.63
		QPSK	15	12@0	7.06

NB-IoT Band 13					
Channel	Freq. (MHz)	Modulation	Subcarrier Spacing (kHz)	N _{tones}	Peak-to-Average Power Ratio(dB)
23181	777.1	BPSK	15	1@0	7.45
		QPSK	15	12@0	7.79
23230	782	BPSK	15	1@0	9.73
		QPSK	15	12@0	12.16
23279	786.9	BPSK	15	1@0	6.95
		QPSK	15	12@0	9.54

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12.4.2 Cat M1

M1 BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.46	13	1851.5	18615	6.10	13
1880.0	18900	7.04	13	1880.0	18900	6.02	13
1909.3	19193	5.57	13	1908.5	19185	5.88	13

M1 BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	5.96	13	1855.0	18650	6.46	13
1880.0	18900	5.81	13	1880.0	18900	5.78	13
1907.5	19175	5.56	13	1905.0	19150	5.74	13

M1 BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.13	13	1711.5	19965	6.17	13
1732.5	20175	6.15	13	1732.5	20175	6.05	13
1754.3	20393	5.90	13	1753.5	20385	6.02	13

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M1 BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19975	6.38	13	1715.0	20000	6.91	13
1732.5	20175	6.31	13	1732.5	20175	6.98	13
1752.5	20375	6.25	13	1750.0	20350	5.79	13

M1 BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	6.28	13	700.5	23025	6.67	13
707.5	23095	6.10	13	707.5	23095	6.10	13
715.3	23173	6.30	13	714.5	23165	6.57	13

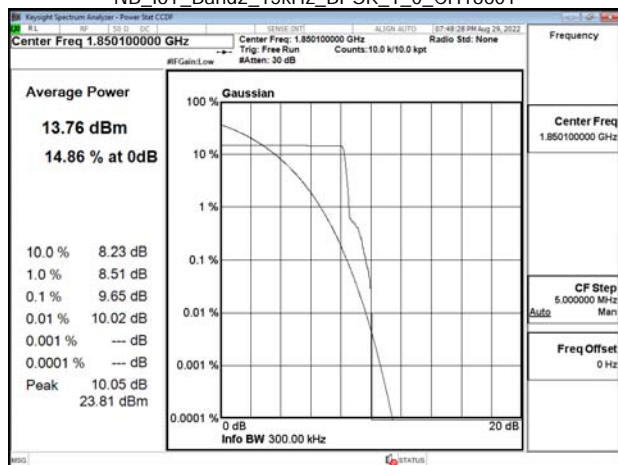
M1 BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	6.37	13	704.0	23060	5.92	13
707.5	23095	6.18	13	707.5	23095	6.40	13
713.5	23155	5.51	13	711.0	23130	7.48	13

Please refer to next page for test plots.

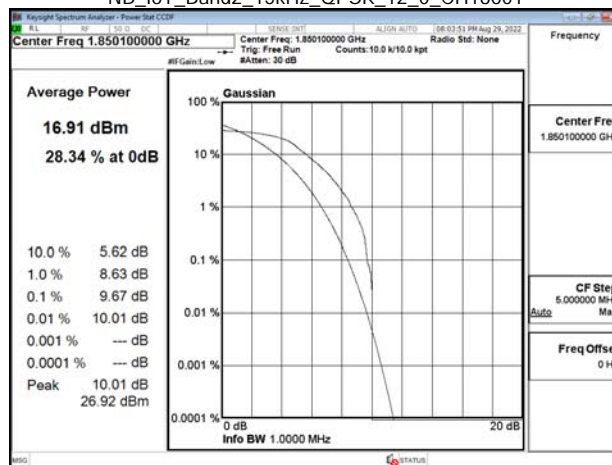
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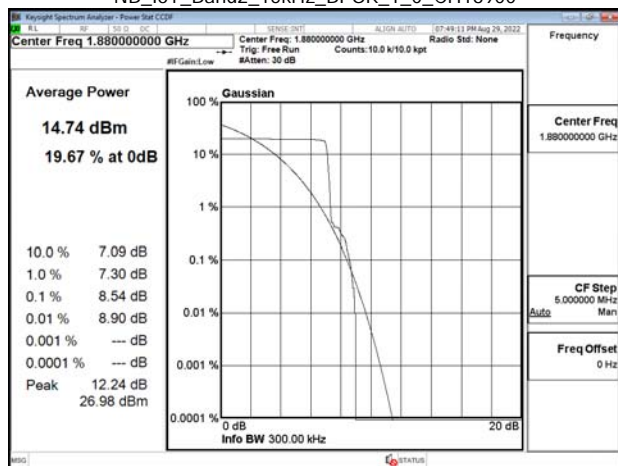
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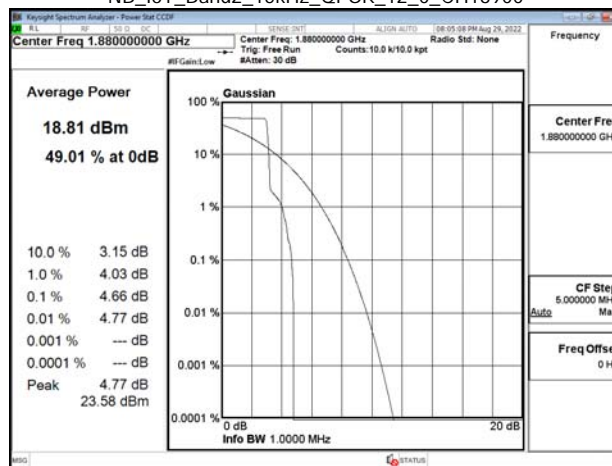
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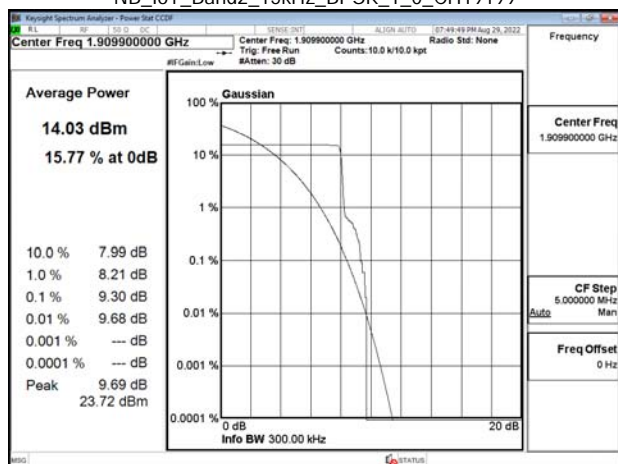
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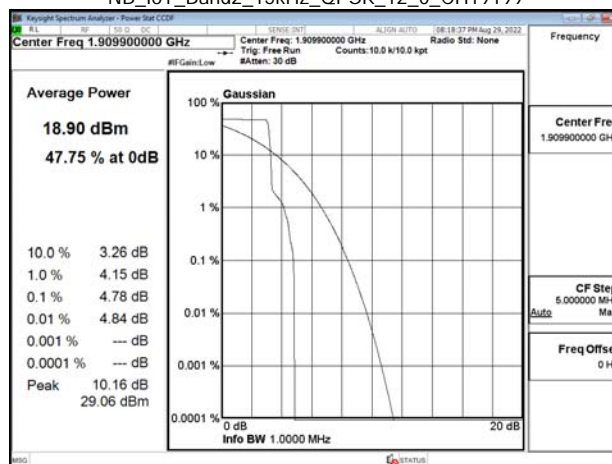
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NB_IoT_Band2_15kHz_QPSK_12_0_CH19199



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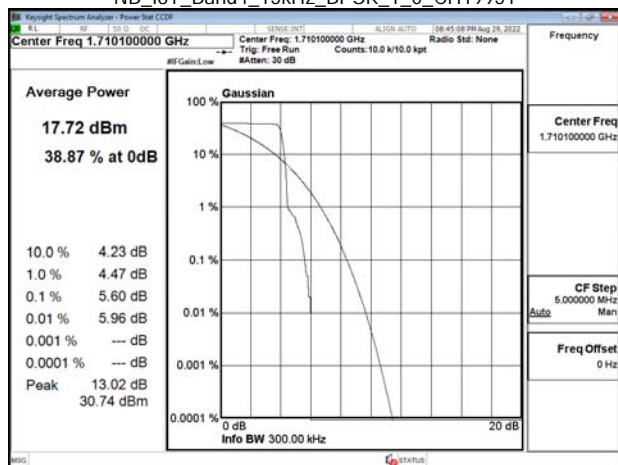
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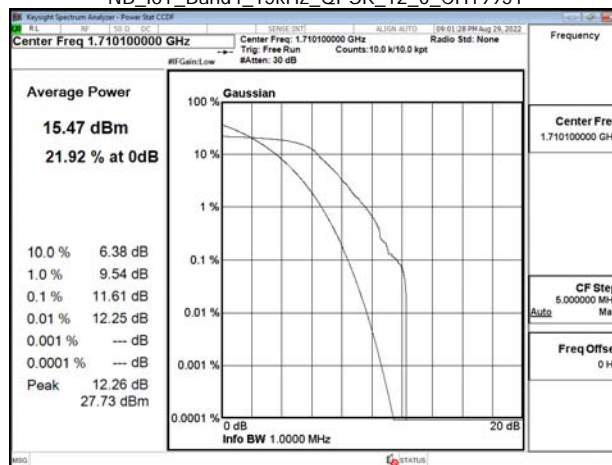
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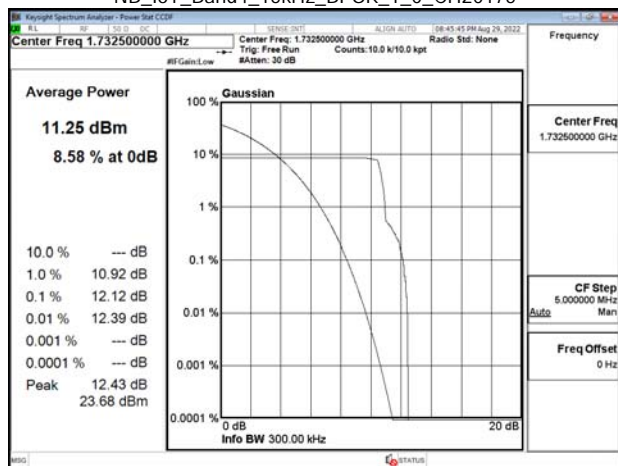
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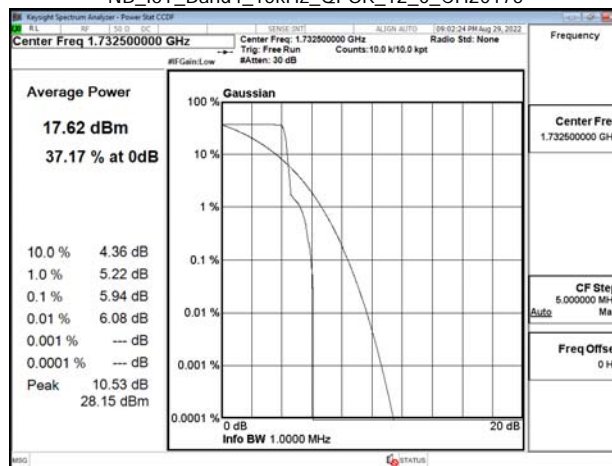
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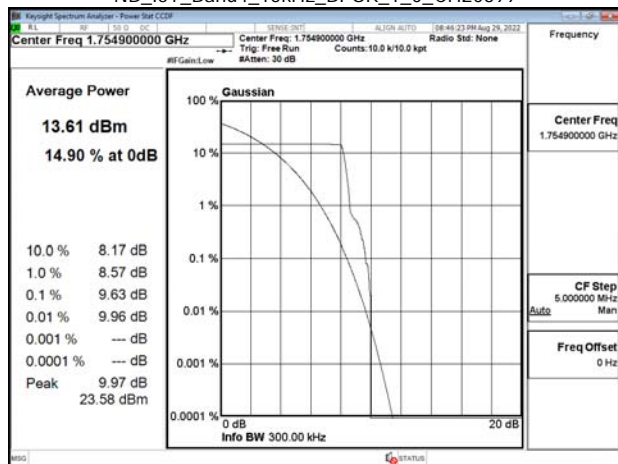
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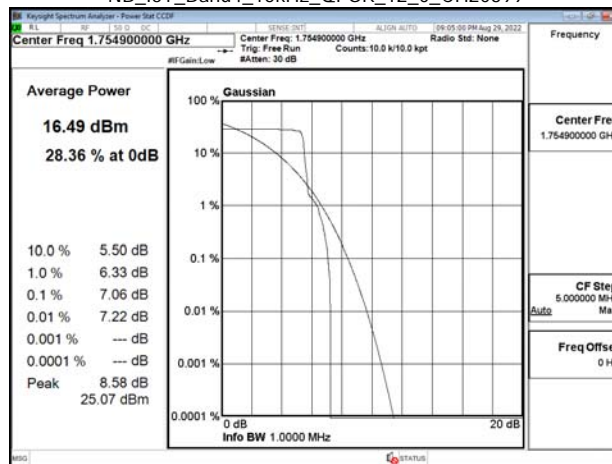
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NB_IoT_Band4_15kHz_BPSK_1_0_CH20399



NB_IoT_Band4_15kHz_QPSK_12_0_CH20399



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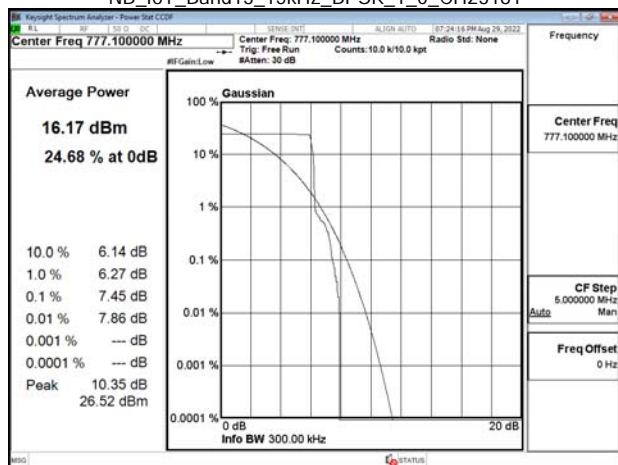
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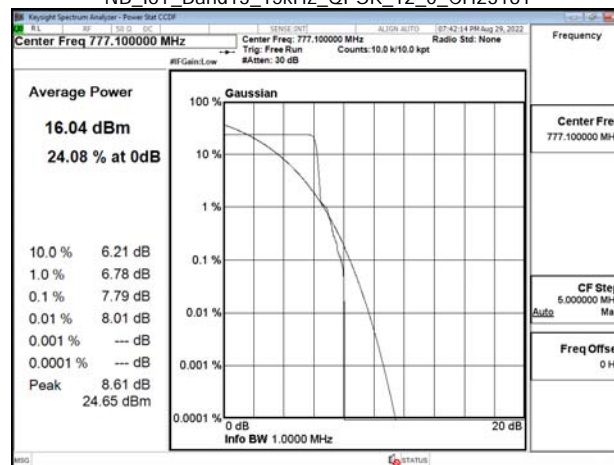
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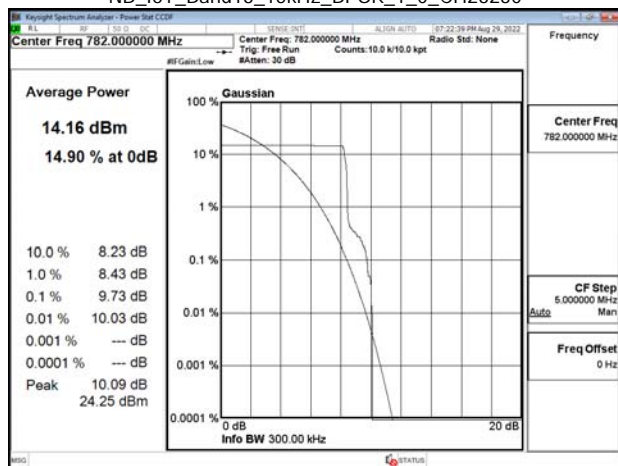
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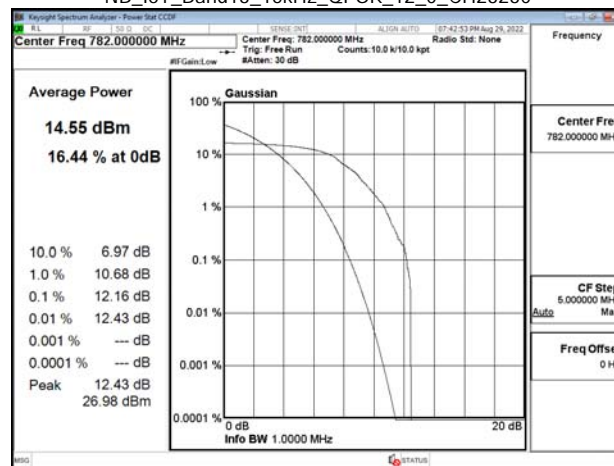
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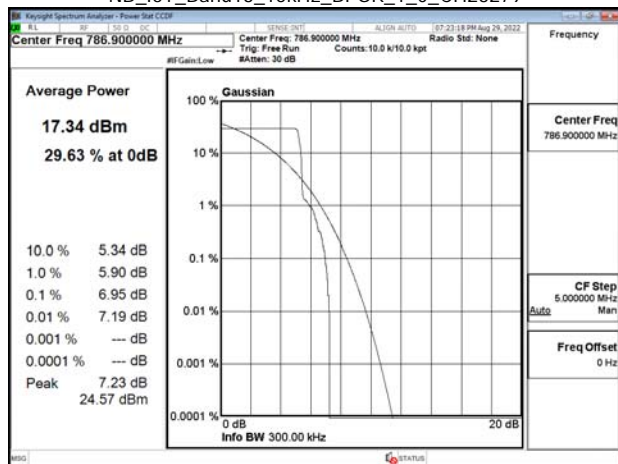
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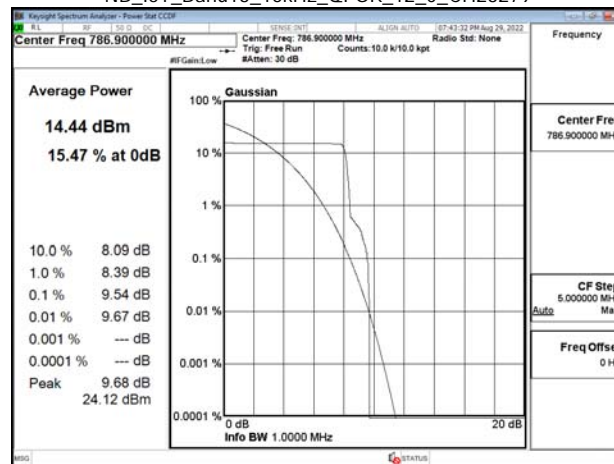
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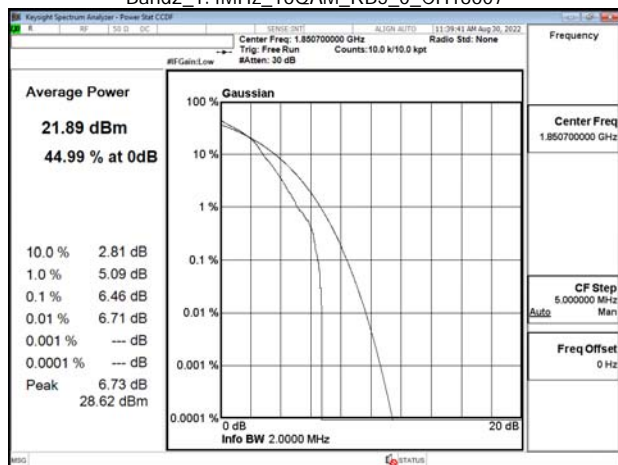
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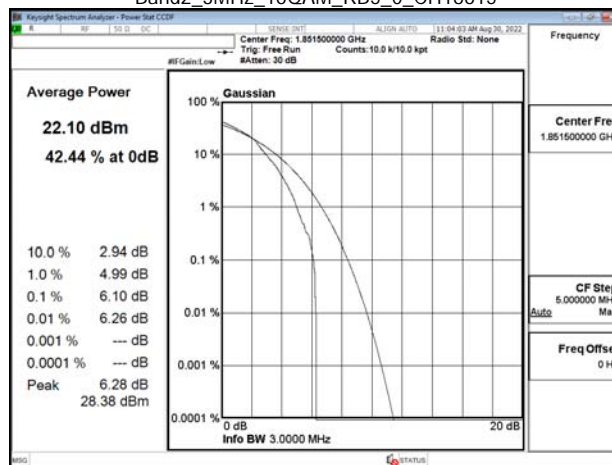
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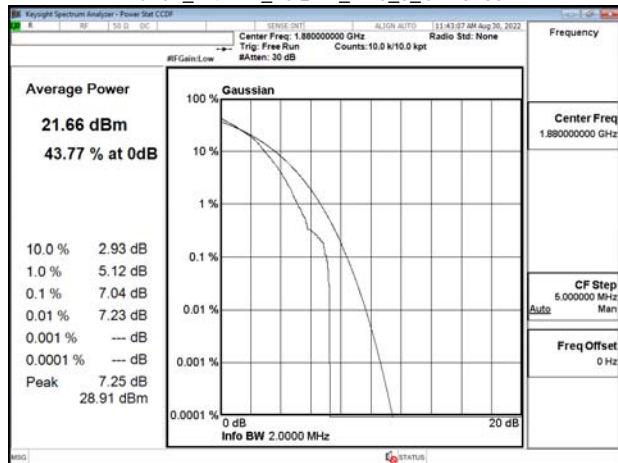
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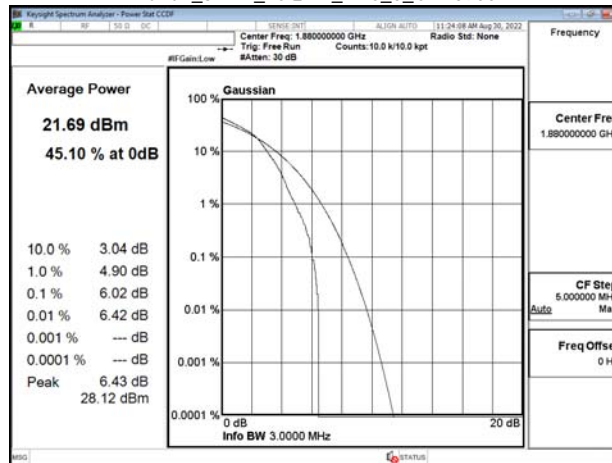
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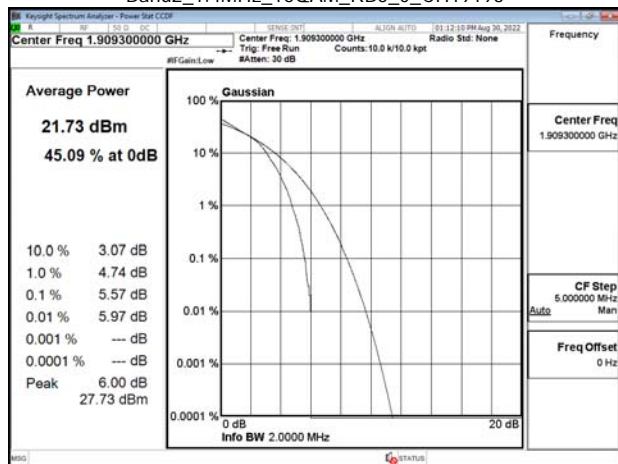
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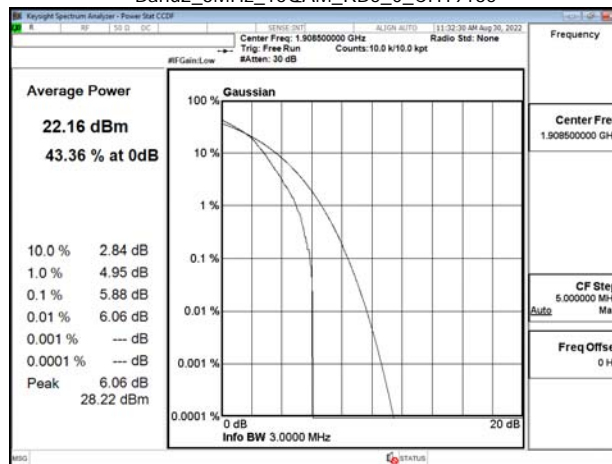
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Band2_1.4MHz_16QAM_RB5_0_CH19193



Band2_3MHz_16QAM_RB5_0_CH19185



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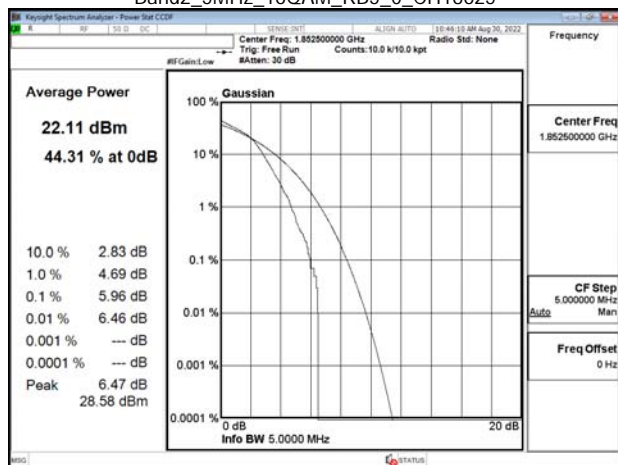
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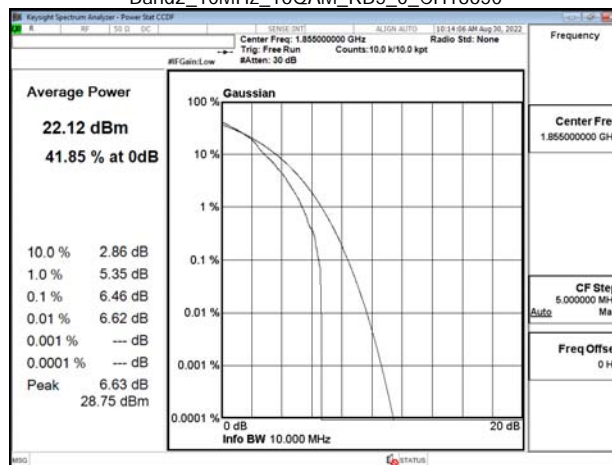
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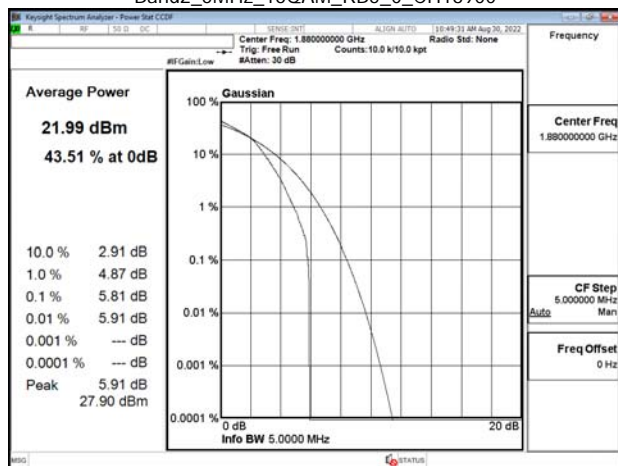
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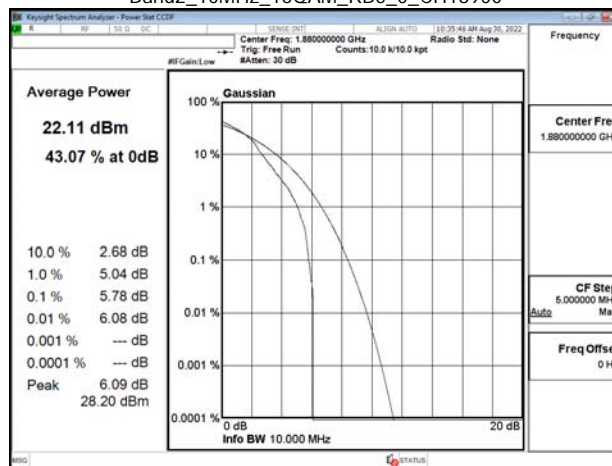
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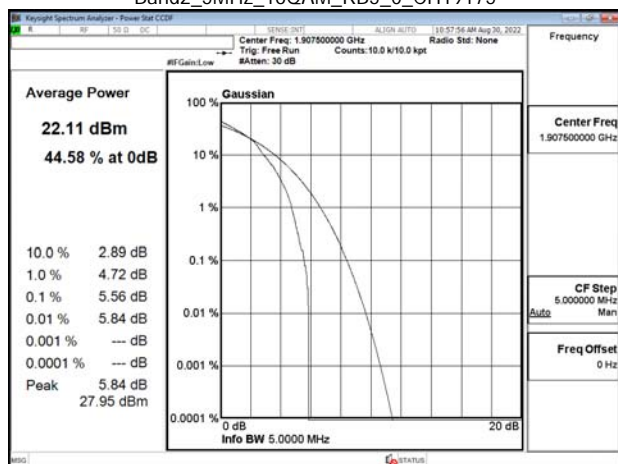
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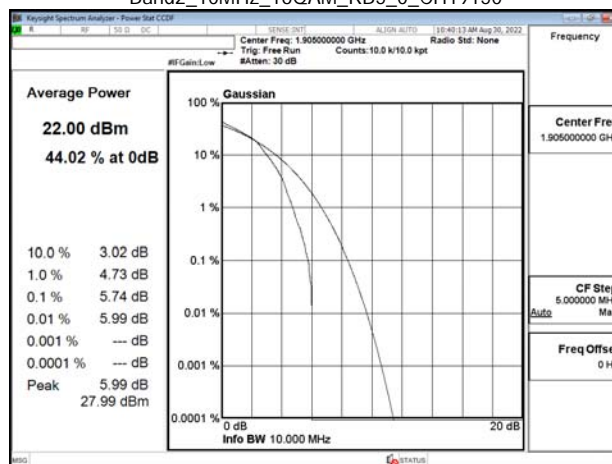
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Band2_5MHz_16QAM_RB5_0_CH19175



Band2_10MHz_16QAM_RB5_0_CH19150



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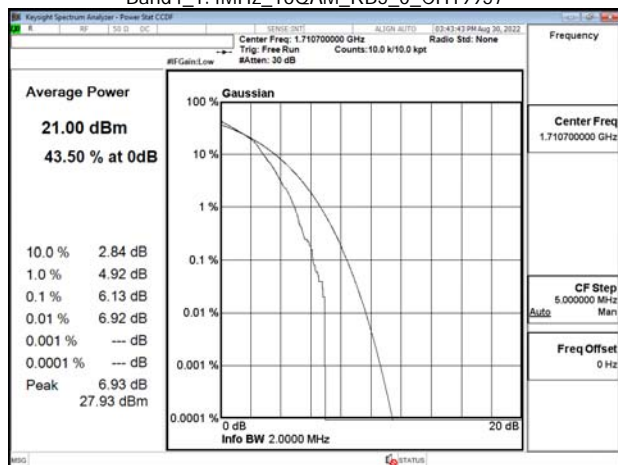
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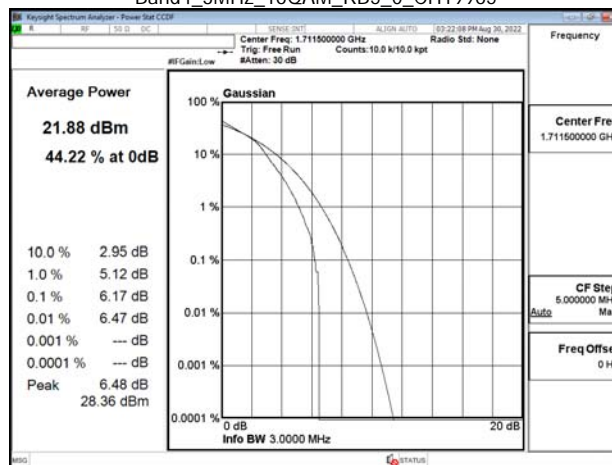
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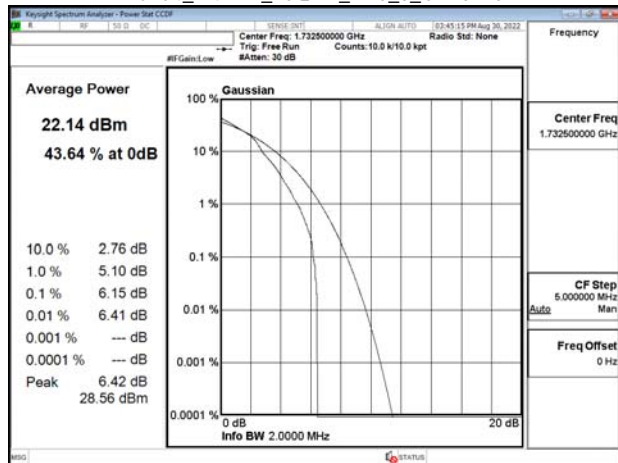
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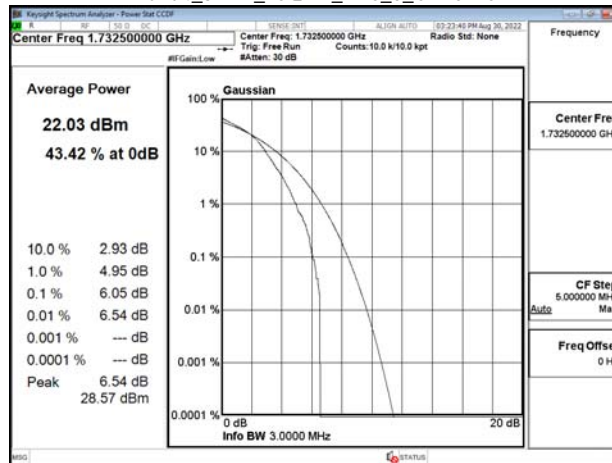
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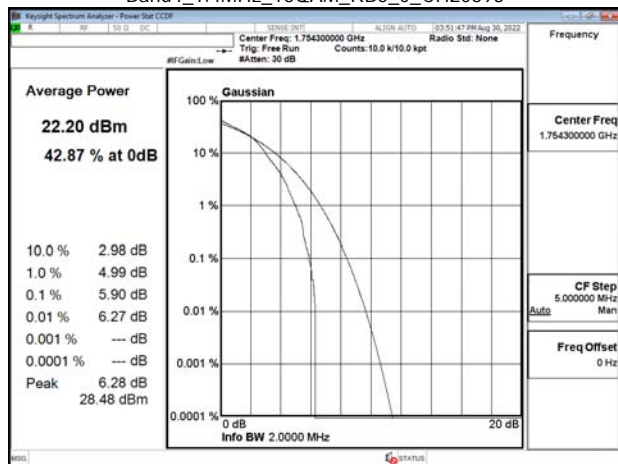
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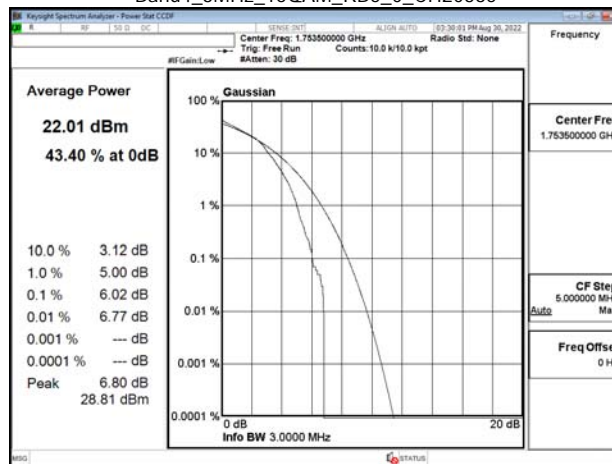
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Band4_1.4MHz_16QAM_RB5_0_CH20393



Band4_3MHz_16QAM_RB5_0_CH20385



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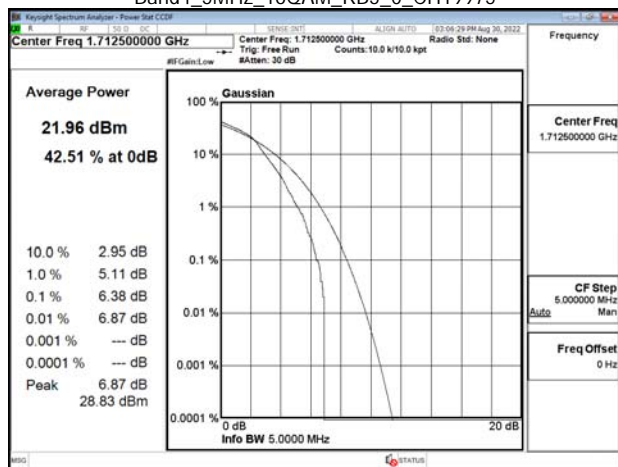
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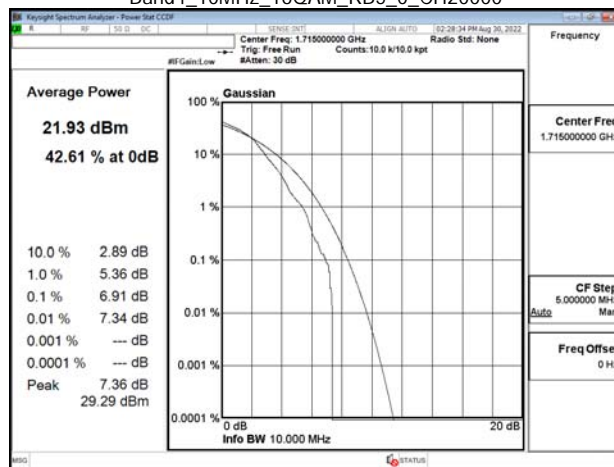
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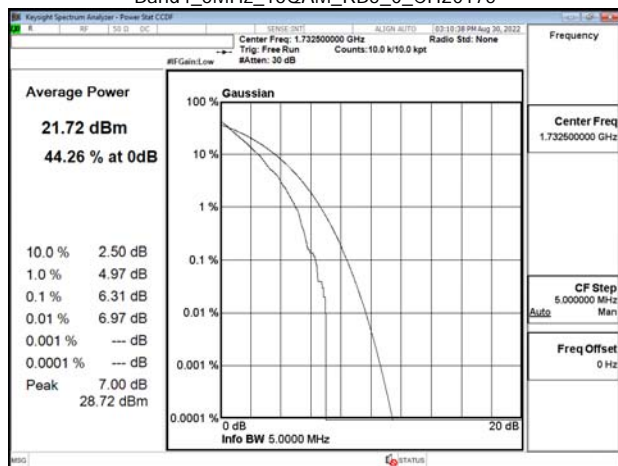
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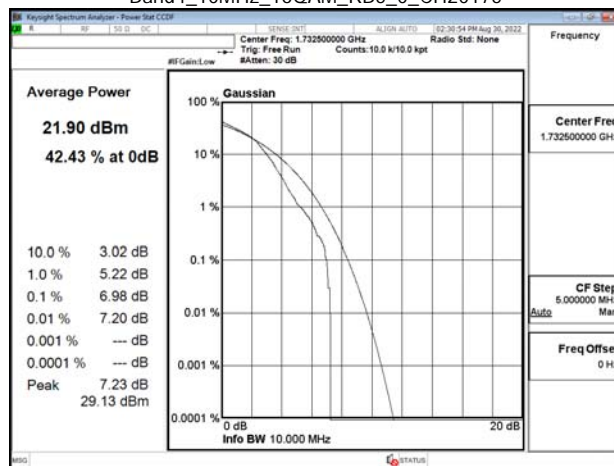
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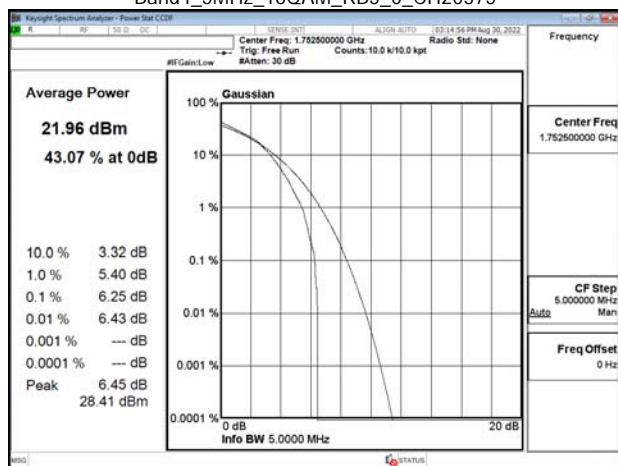
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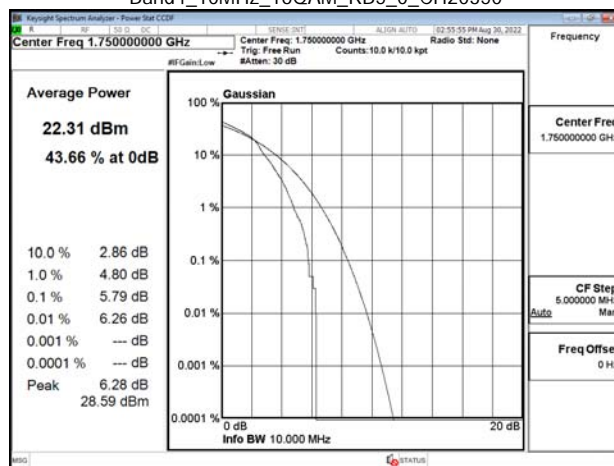
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Band4_10MHz_16QAM_RB5_0_CH20350



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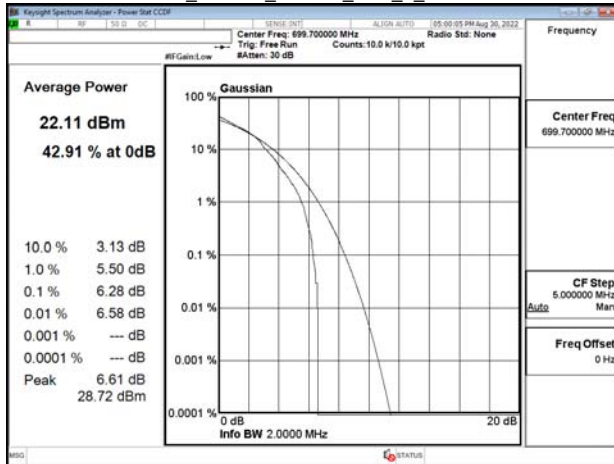
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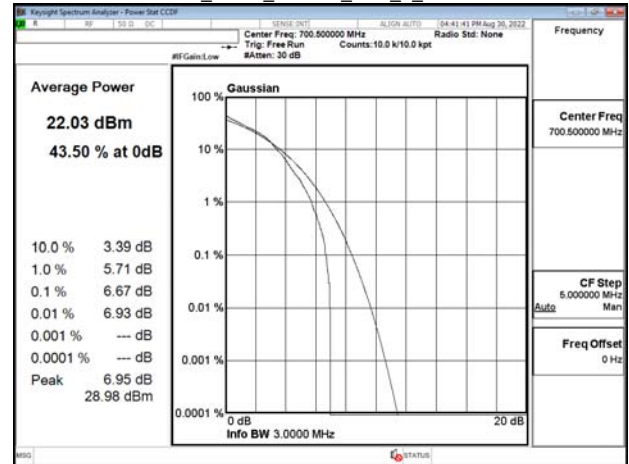
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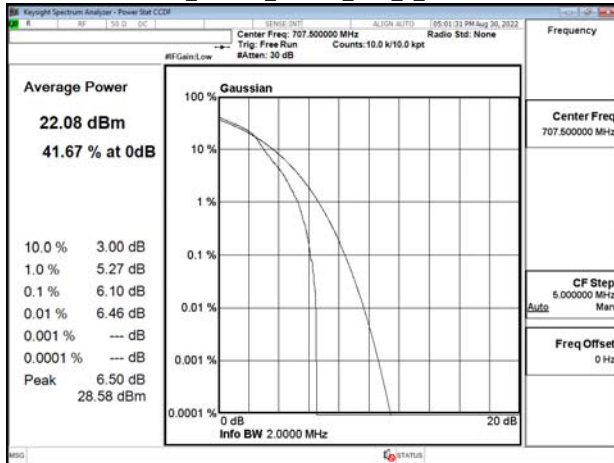
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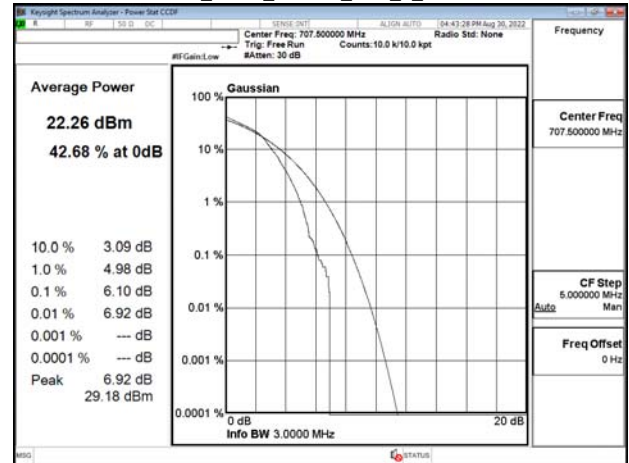
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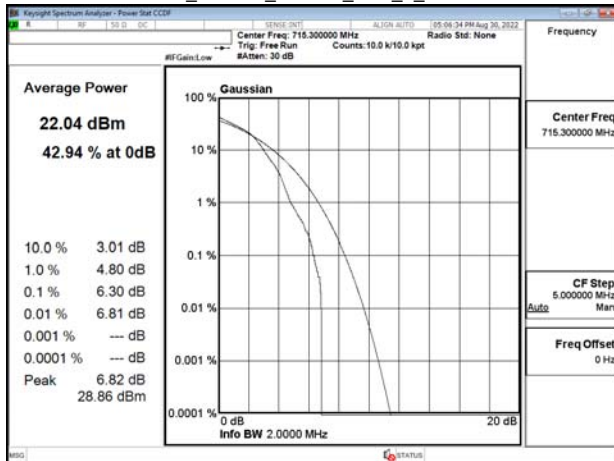
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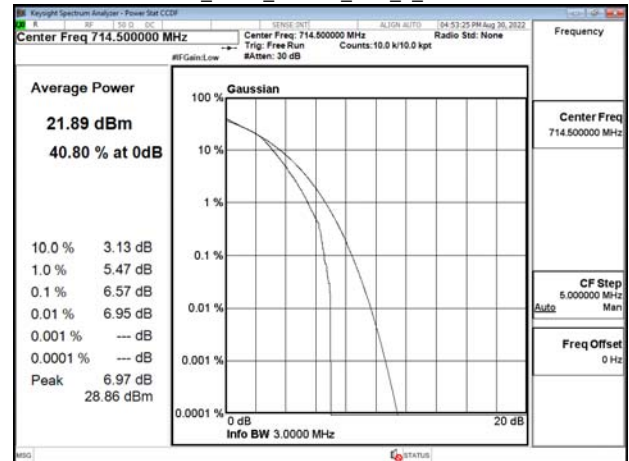
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Band12_3MHz_16QAM_RB5_0_CH23165



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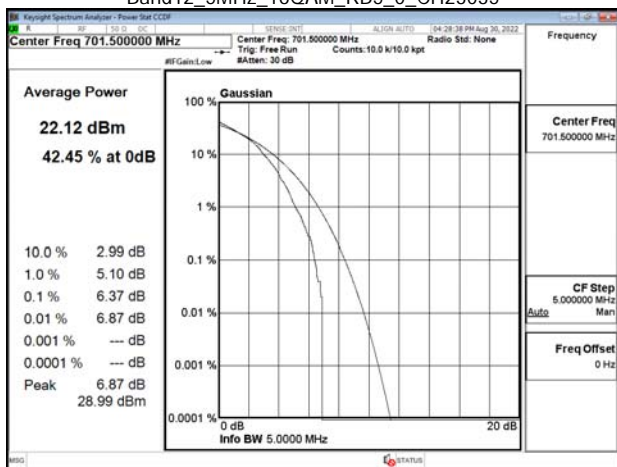
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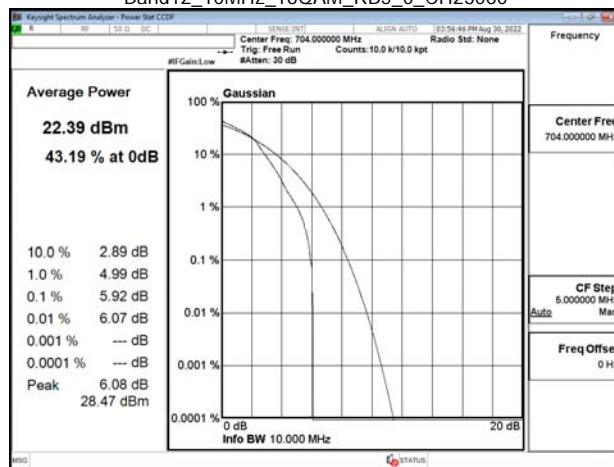
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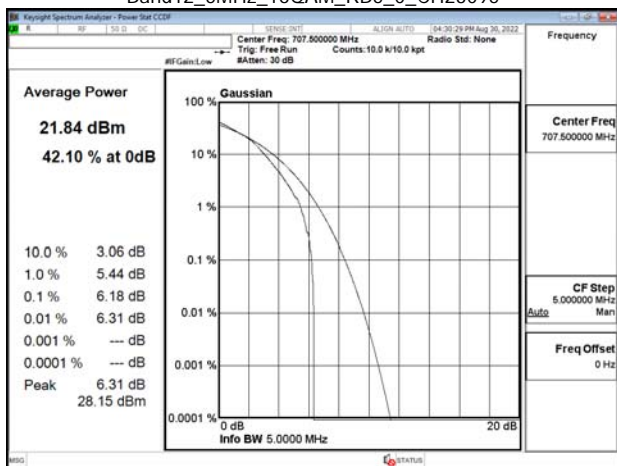
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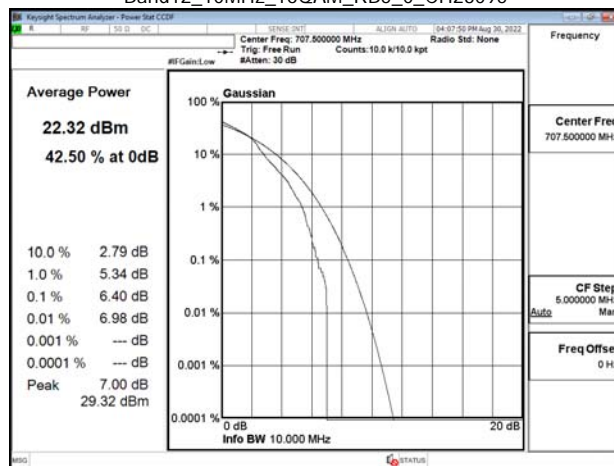
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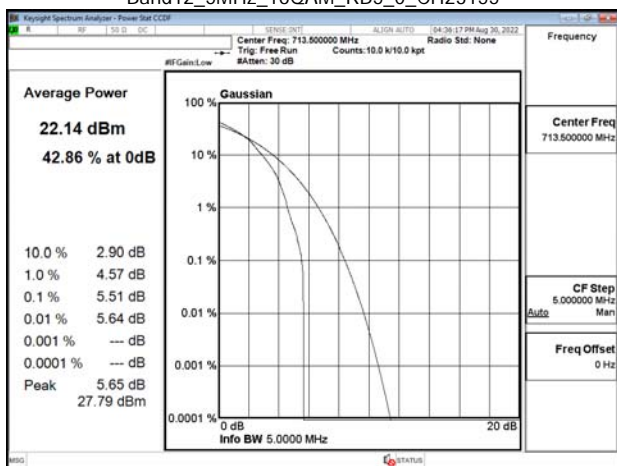
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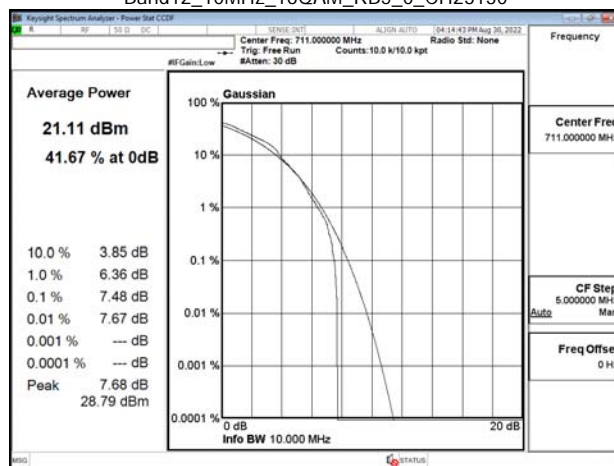
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Band12_10MHz_16QAM_RB5_0_CH23130



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