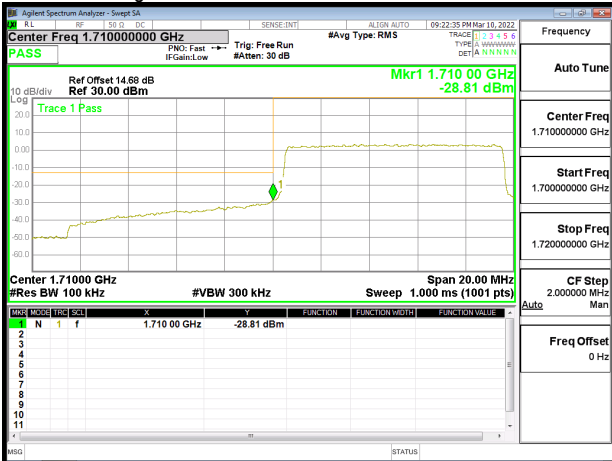
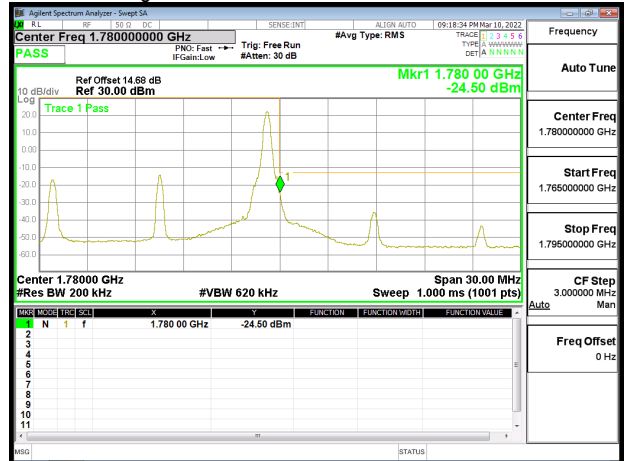


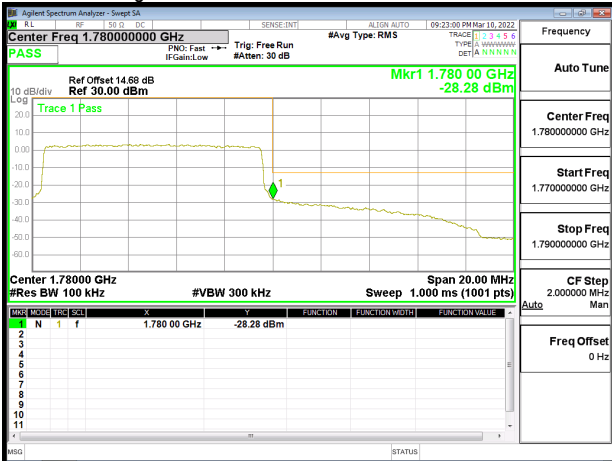
Band Edge_Band66_10MHz_QPSK_RB50_0_CH132022



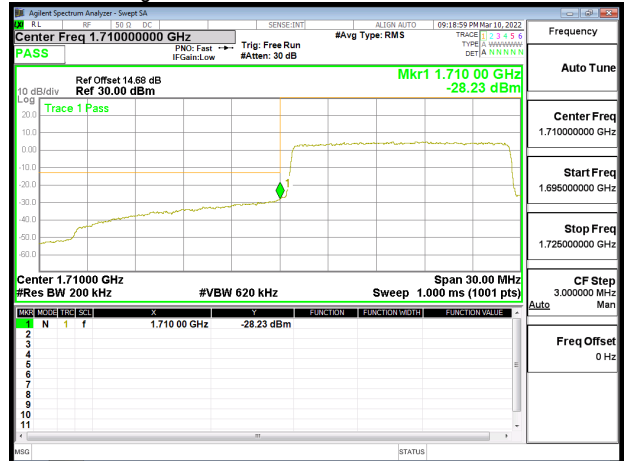
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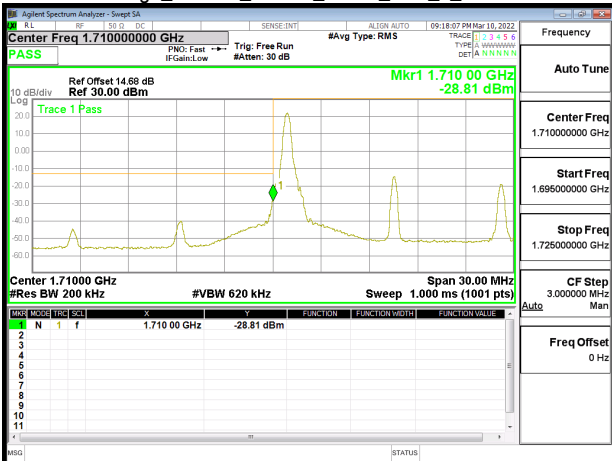
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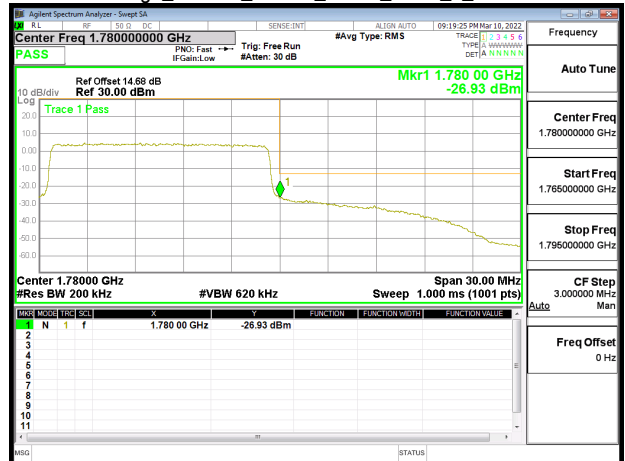
Band Edge_Band66_15MHz_QPSK_RB75_0_CH132047



Band Edge_Band66_15MHz_QPSK_RB1_0_CH132047



Band Edge_Band66_15MHz_QPSK_RB75_0_CH132597

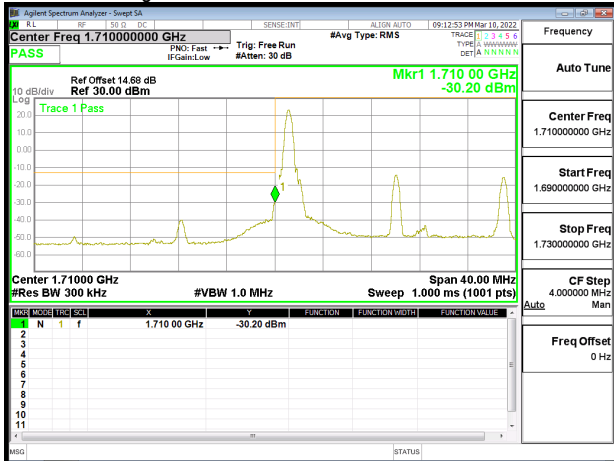


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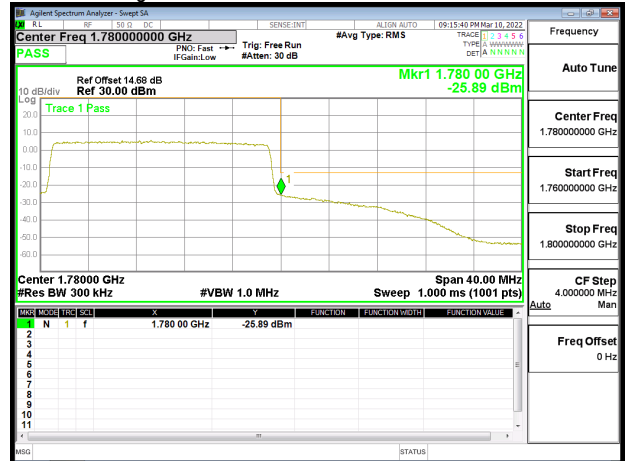
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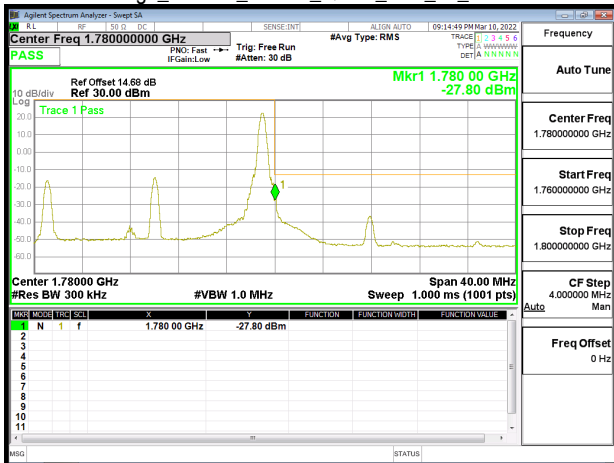
Band Edge_Band66_20MHz_QPSK_RB1_0_CH132072



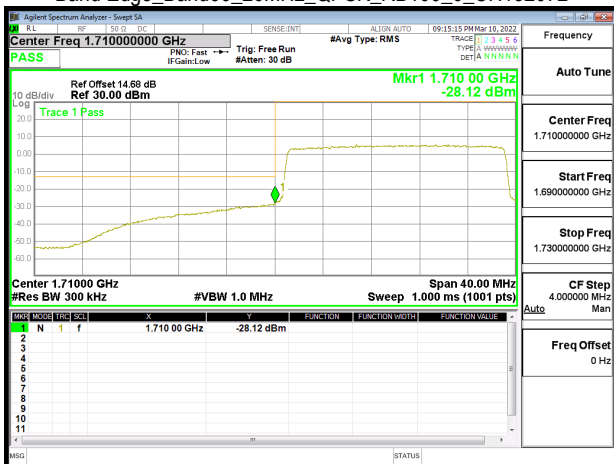
Band Edge_Band66_20MHz_QPSK_RB100_0_CH132572



Band Edge_Band66_20MHz_QPSK_RB1_99_CH132572



Band Edge_Band66_20MHz_QPSK_RB100_0_CH132072



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9.5 Spurious Emission Measurement Result:

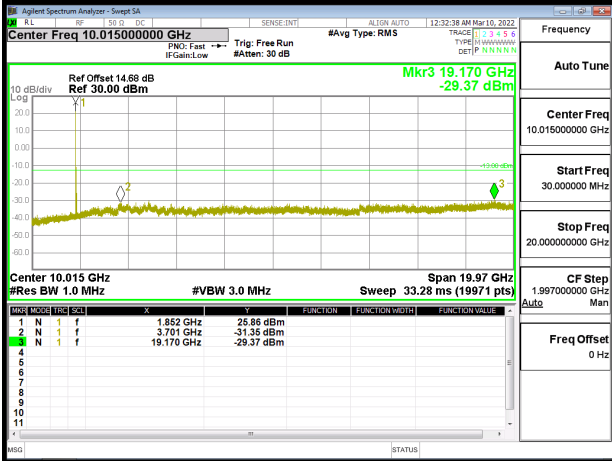
Refer to next pages.

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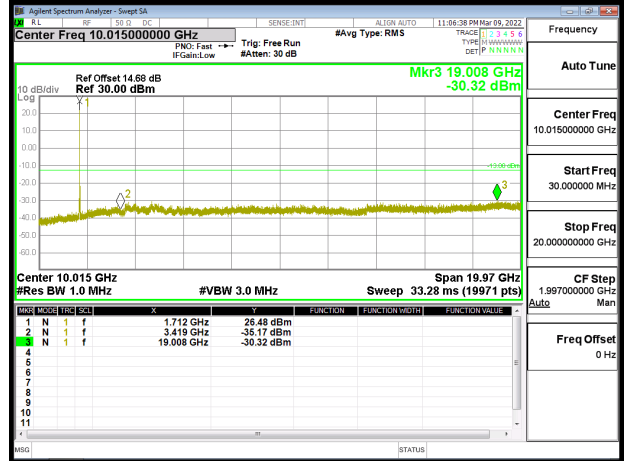
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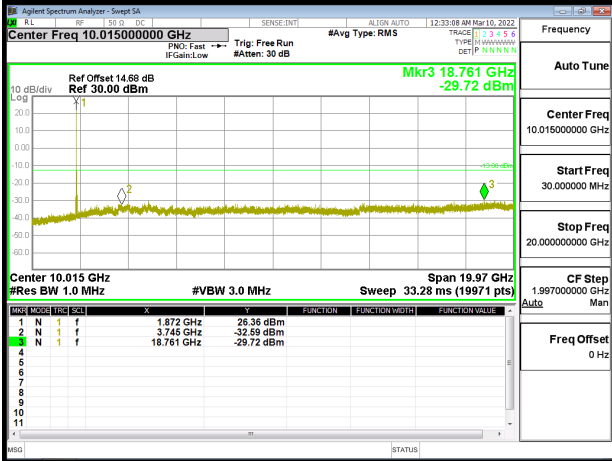
Band2_20MHz_QPSK_RB1_0_CH18700



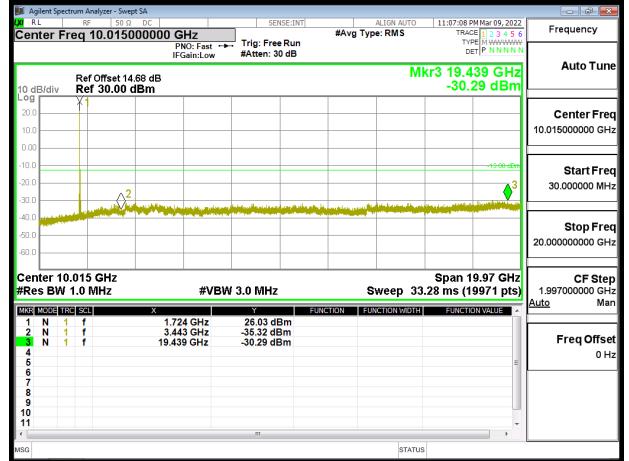
Band4_20MHz_QPSK_RB1_0_CH20050



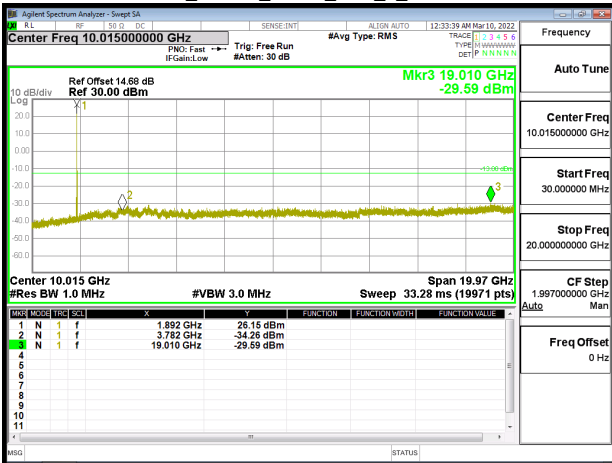
Band2_20MHz_QPSK_RB1_0_CH18900



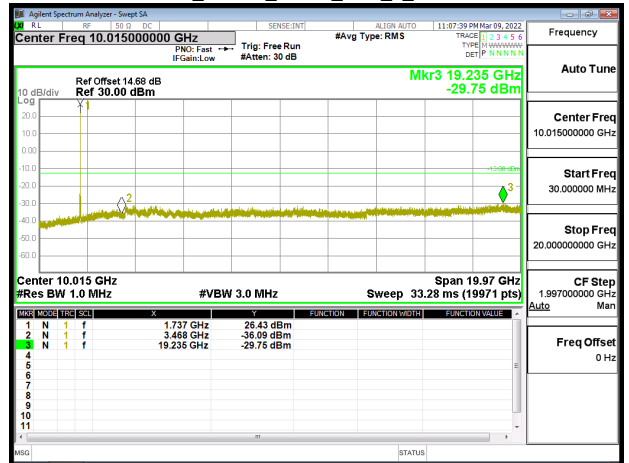
Band4_20MHz_QPSK_RB1_0_CH20175



Band2_20MHz_QPSK_RB1_0_CH19100



Band4_20MHz_QPSK_RB1_0_CH20300

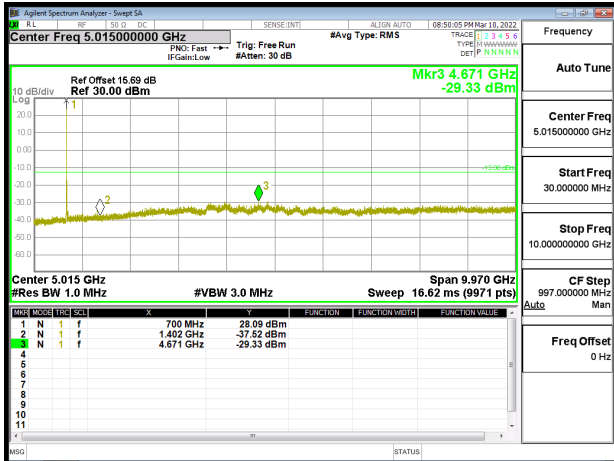


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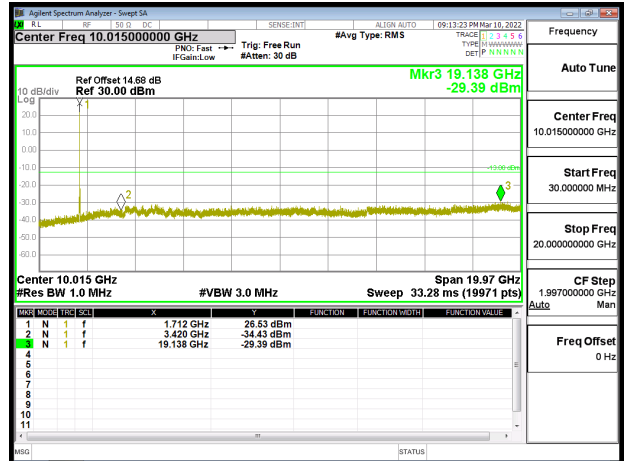
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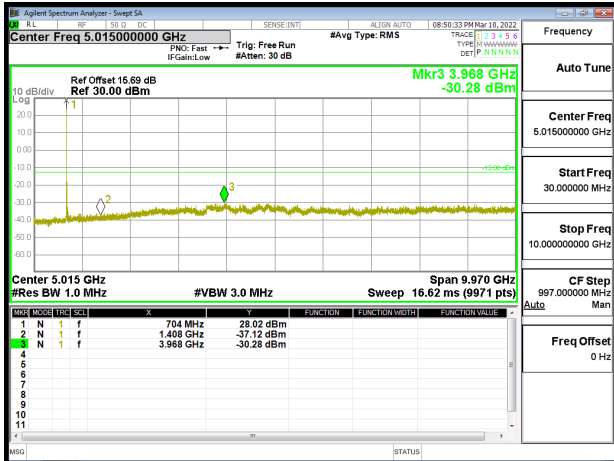
Band12_10MHz_QPSK_RB1_0_CH23060



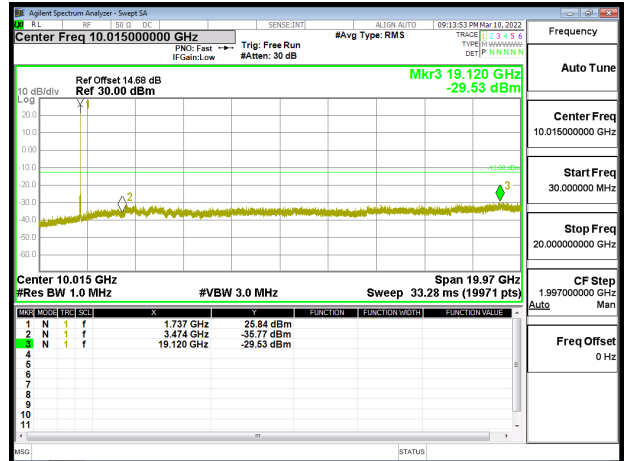
Band66_20MHz_QPSK_RB1_0_CH132072



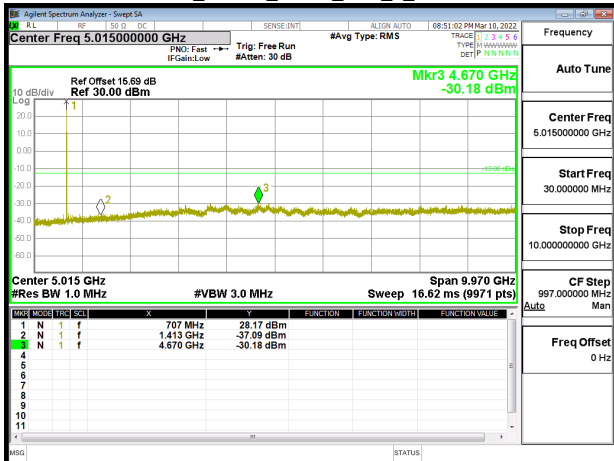
Band12_10MHz_QPSK_RB1_0_CH23095



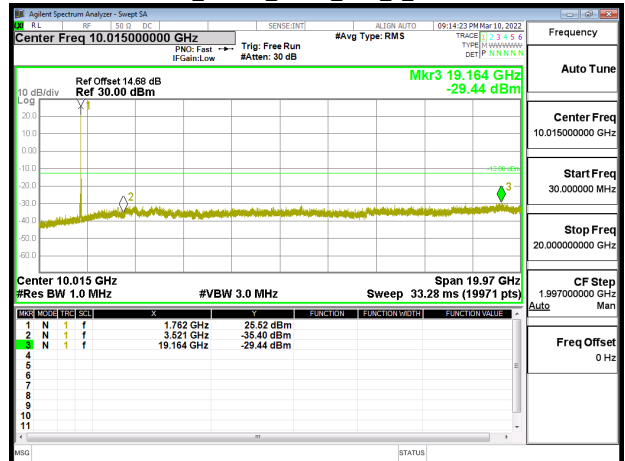
Band66_20MHz_QPSK_RB1_0_CH132322



Band12_10MHz_QPSK_RB1_0_CH23130



Band66_20MHz_QPSK_RB1_0_CH132572



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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.

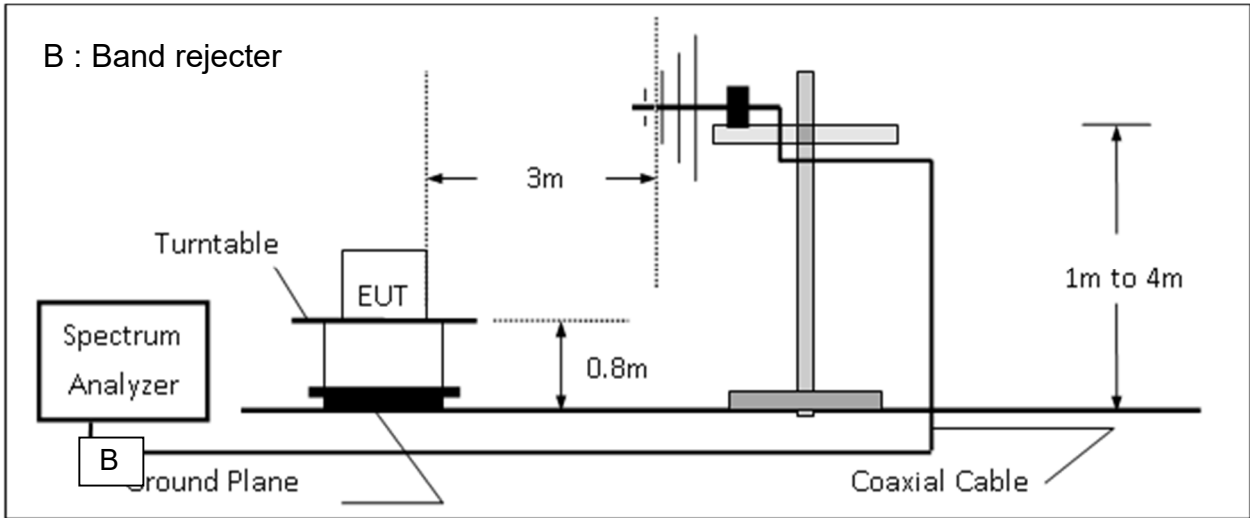
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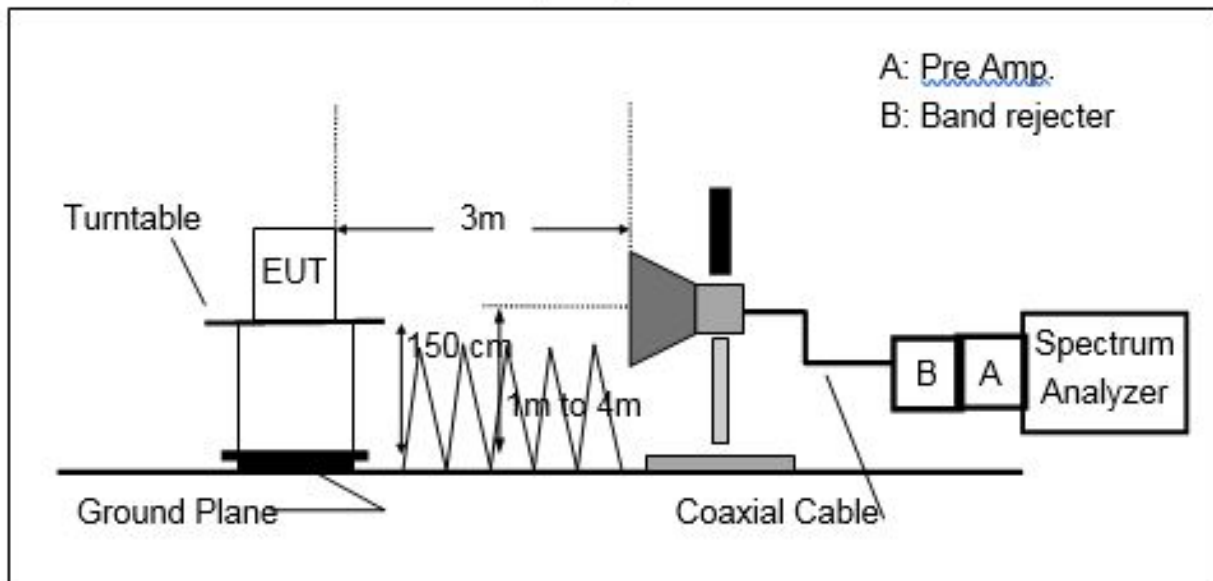
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10.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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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.

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

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

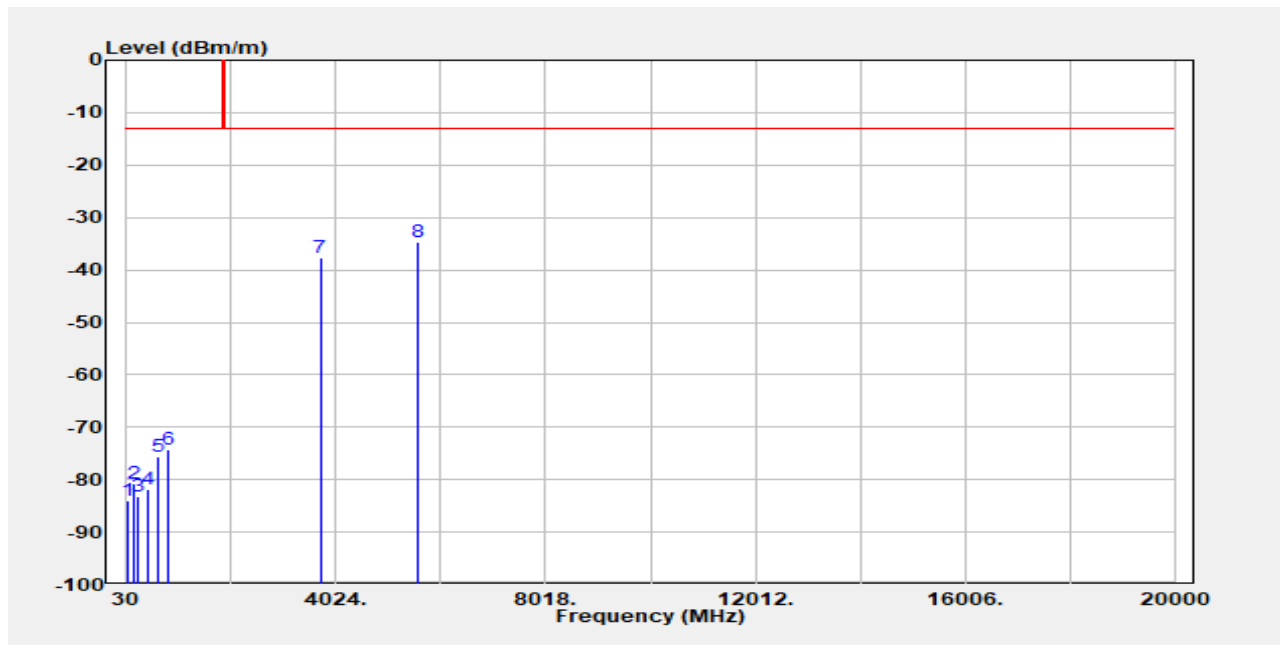
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10.4 Measurement Result:

Report Number	:ER/2022/30008	Test Site	:SAC 3
Operation Mode	:LTE B2	Test Date	:2022-04-20
Test Mode	:Tx CH Low	Temp./Humi.	:22.5/55
EUT Pol	:E2 Plane	Antenna Pol.	:Vertical
Test Frequency	:1860 MHz	Engineer	:Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
58.130	-83.88	-74.04	-9.10	-0.74	-13.00	-70.88
153.190	-80.80	-75.10	-4.50	-1.20	-13.00	-67.80
241.460	-83.13	-79.59	-1.89	-1.65	-13.00	-70.13
451.950	-81.86	-78.52	-1.06	-2.28	-13.00	-68.86
615.880	-75.68	-72.52	-0.65	-2.51	-13.00	-62.68
825.400	-74.39	-71.64	0.38	-3.13	-13.00	-61.39
3720.000	-37.65	-43.61	12.40	-6.43	-13.00	-24.65
5580.000	-34.67	-39.48	13.14	-8.33	-13.00	-21.67

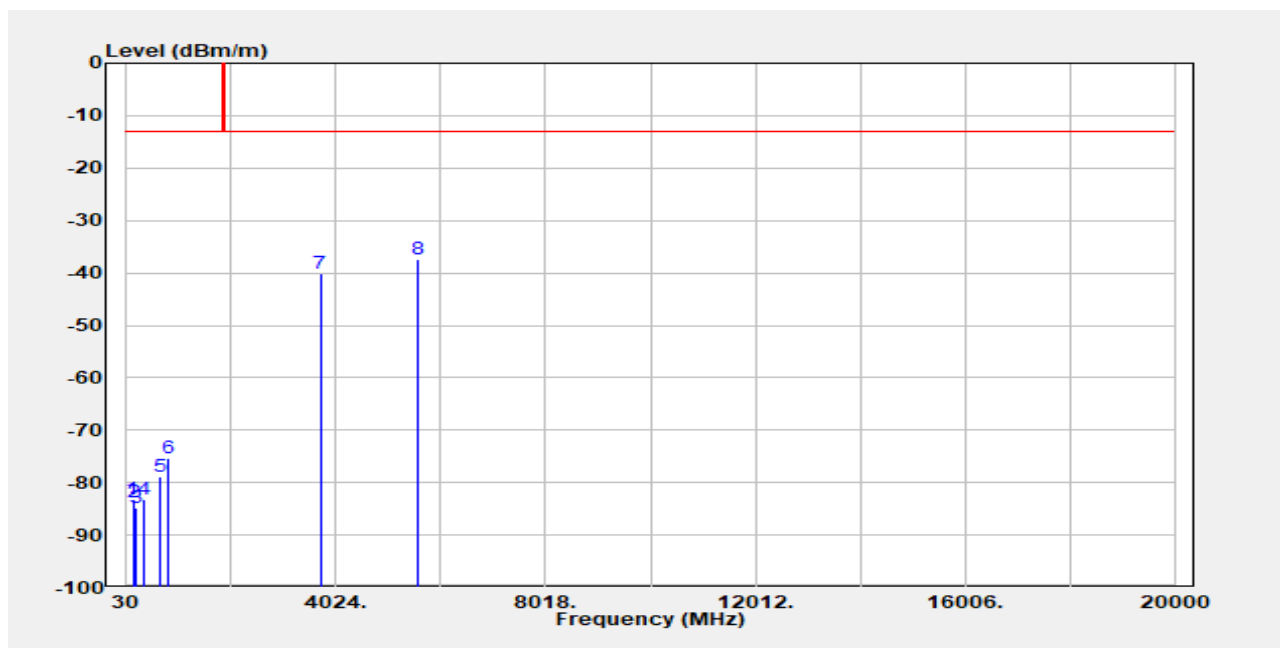
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Report Number :ER/2022/30008
 Operation Mode :LTE B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1860 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.280	-83.21	-77.25	-4.79	-1.16	-13.00	-70.21
175.500	-83.62	-80.22	-2.04	-1.36	-13.00	-70.62
193.930	-84.84	-82.01	-1.38	-1.46	-13.00	-71.84
375.320	-83.22	-79.94	-1.25	-2.04	-13.00	-70.22
657.590	-78.92	-76.07	-0.37	-2.48	-13.00	-65.92
827.340	-75.31	-72.54	0.29	-3.06	-13.00	-62.31
3720.000	-40.08	-46.04	12.40	-6.43	-13.00	-27.08
5580.000	-37.30	-42.10	13.14	-8.33	-13.00	-24.30

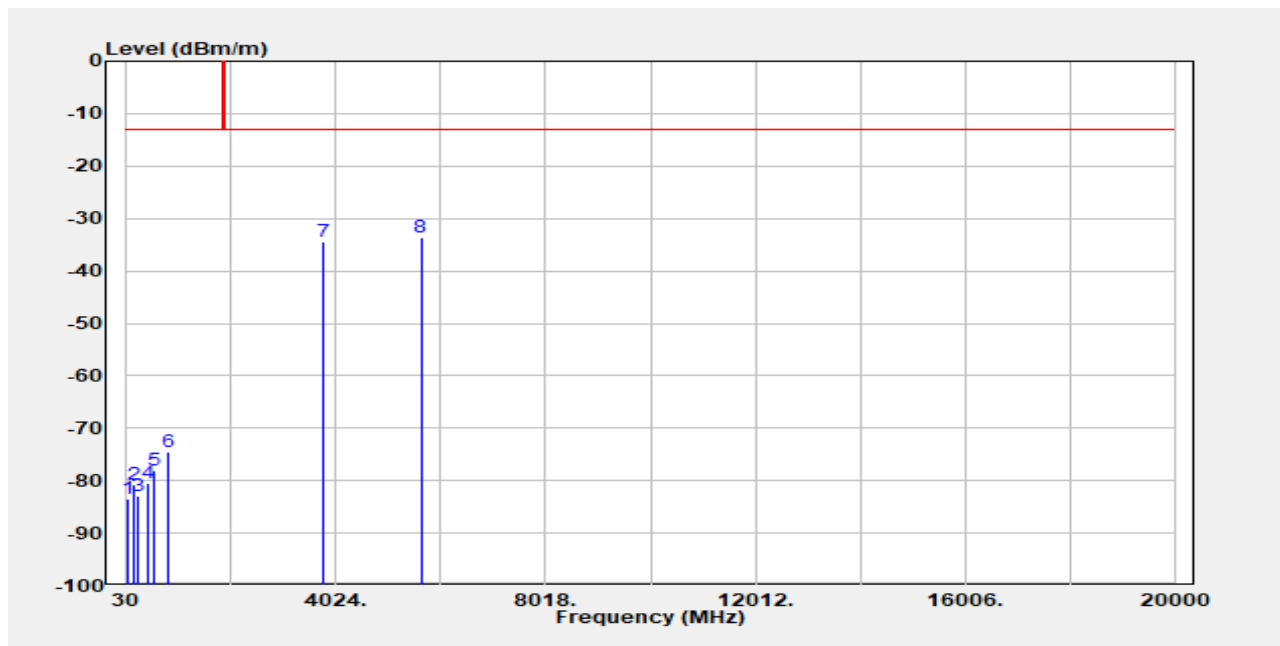
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Report Number :ER/2022/30008
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.250	-83.47	-72.36	-10.39	-0.72	-13.00	-70.47
156.100	-80.86	-75.40	-4.24	-1.23	-13.00	-67.86
233.700	-82.97	-79.81	-1.55	-1.61	-13.00	-69.97
453.890	-80.39	-77.00	-1.07	-2.32	-13.00	-67.39
542.160	-78.08	-74.63	-1.09	-2.36	-13.00	-65.08
826.370	-74.48	-71.73	0.33	-3.09	-13.00	-61.48
3760.000	-34.50	-40.39	12.40	-6.50	-13.00	-21.50
5640.000	-33.64	-38.52	13.26	-8.39	-13.00	-20.64

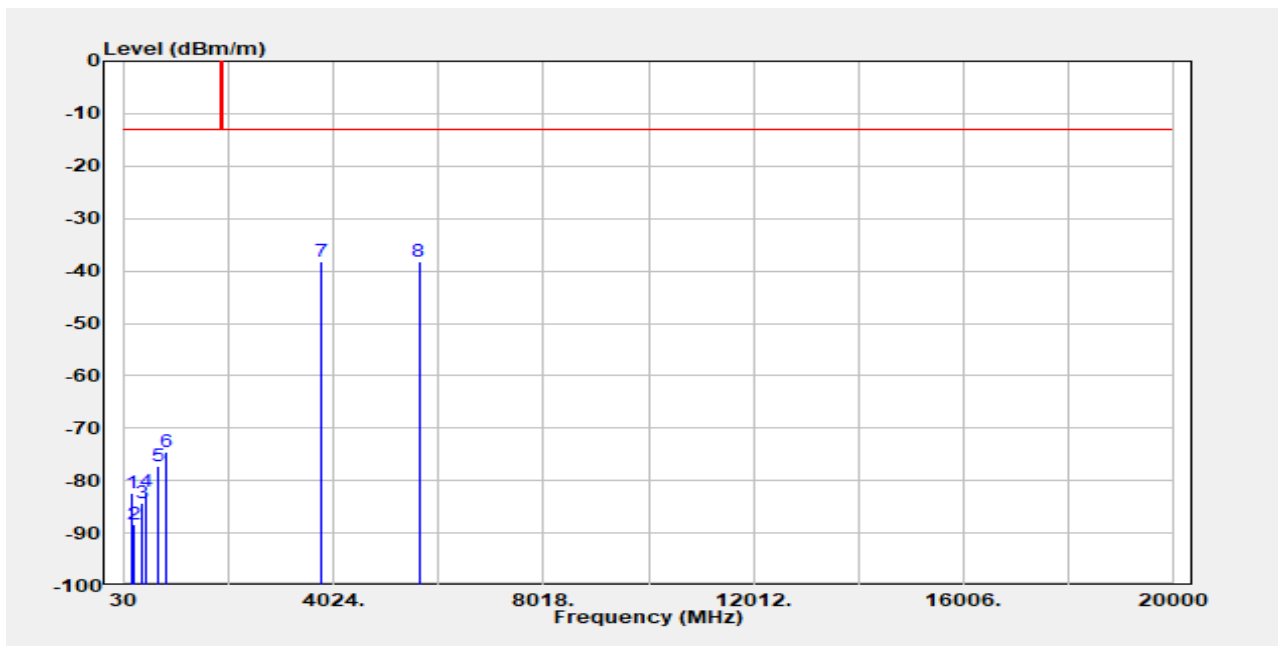
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Report Number :ER/2022/30008
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1880 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
176.470	-82.41	-79.06	-1.99	-1.37	-13.00	-69.41
205.570	-88.46	-85.40	-1.57	-1.49	-13.00	-75.46
347.190	-84.23	-80.75	-1.40	-2.08	-13.00	-71.23
450.980	-82.19	-78.87	-1.06	-2.26	-13.00	-69.19
685.720	-77.24	-73.90	-0.29	-3.05	-13.00	-64.24
826.370	-74.45	-71.69	0.33	-3.09	-13.00	-61.45
3760.000	-38.34	-44.24	12.40	-6.50	-13.00	-25.34
5640.000	-38.28	-43.15	13.26	-8.39	-13.00	-25.28

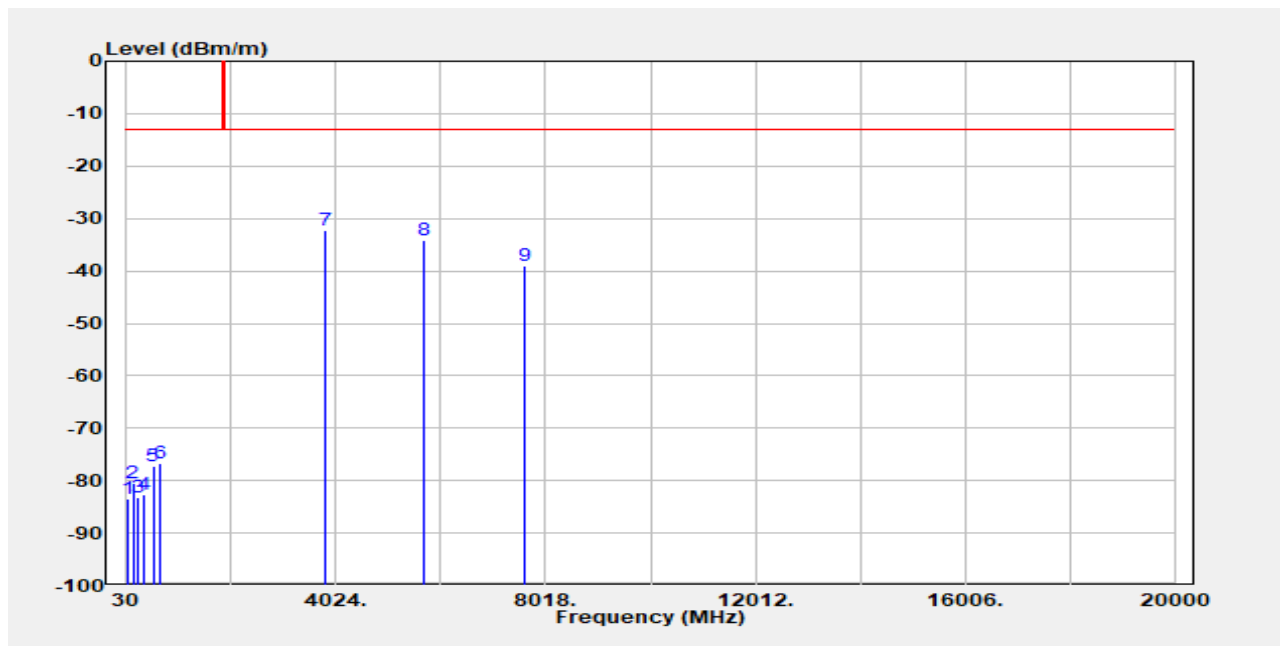
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Report Number :ER/2022/30008
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1900 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-83.40	-72.64	-10.04	-0.73	-13.00	-70.40
149.310	-80.55	-74.53	-4.84	-1.17	-13.00	-67.55
234.670	-83.12	-79.92	-1.59	-1.61	-13.00	-70.12
376.290	-82.52	-79.24	-1.24	-2.04	-13.00	-69.52
534.400	-77.33	-74.20	-0.95	-2.18	-13.00	-64.33
655.650	-76.56	-73.64	-0.39	-2.53	-13.00	-63.56
3800.000	-32.15	-37.98	12.40	-6.57	-13.00	-19.15
5700.000	-34.25	-38.91	13.10	-8.44	-13.00	-21.25
7600.000	-39.10	-40.50	11.20	-9.80	-13.00	-26.10

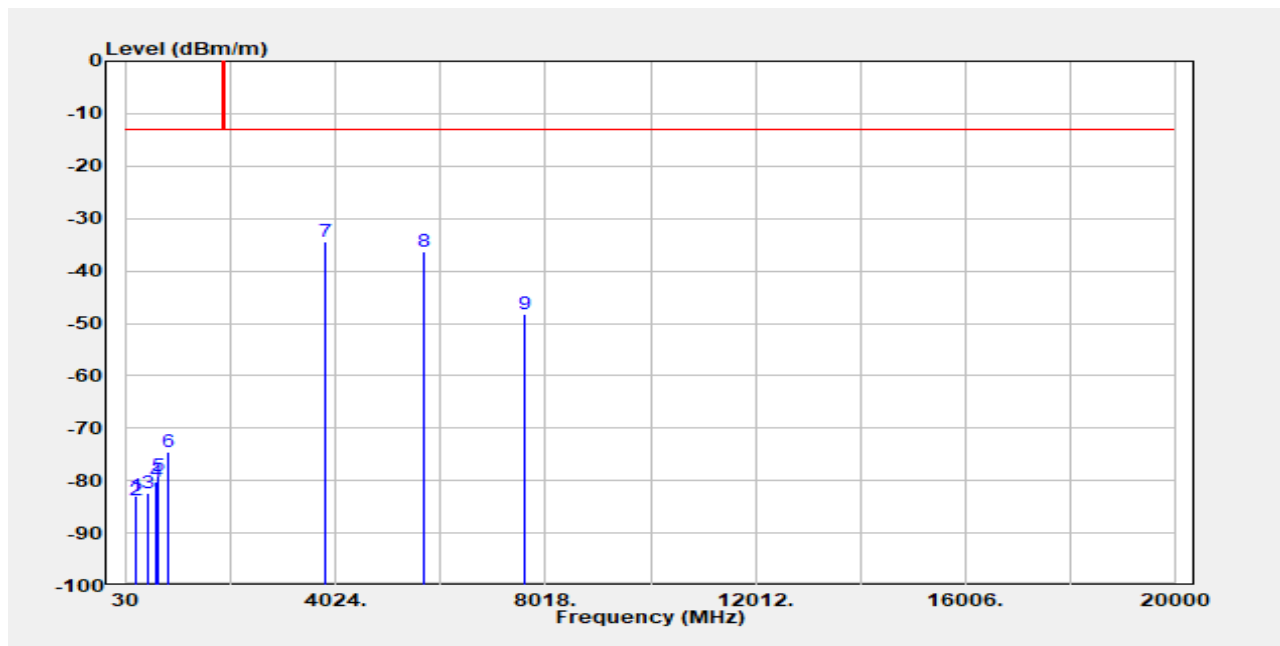
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Report Number :ER/2022/30008
 Operation Mode :LTE B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1900 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
195.870	-82.92	-79.99	-1.47	-1.46	-13.00	-69.92
206.540	-83.63	-80.61	-1.53	-1.49	-13.00	-70.63
437.400	-82.30	-78.83	-1.26	-2.21	-13.00	-69.30
576.110	-80.34	-76.82	-0.76	-2.76	-13.00	-67.34
638.190	-79.11	-76.33	-0.49	-2.29	-13.00	-66.11
810.850	-74.57	-71.64	0.25	-3.18	-13.00	-61.57
3800.000	-34.49	-40.31	12.40	-6.57	-13.00	-21.49
5700.000	-36.36	-41.02	13.10	-8.44	-13.00	-23.36
7600.000	-48.32	-49.73	11.20	-9.80	-13.00	-35.32

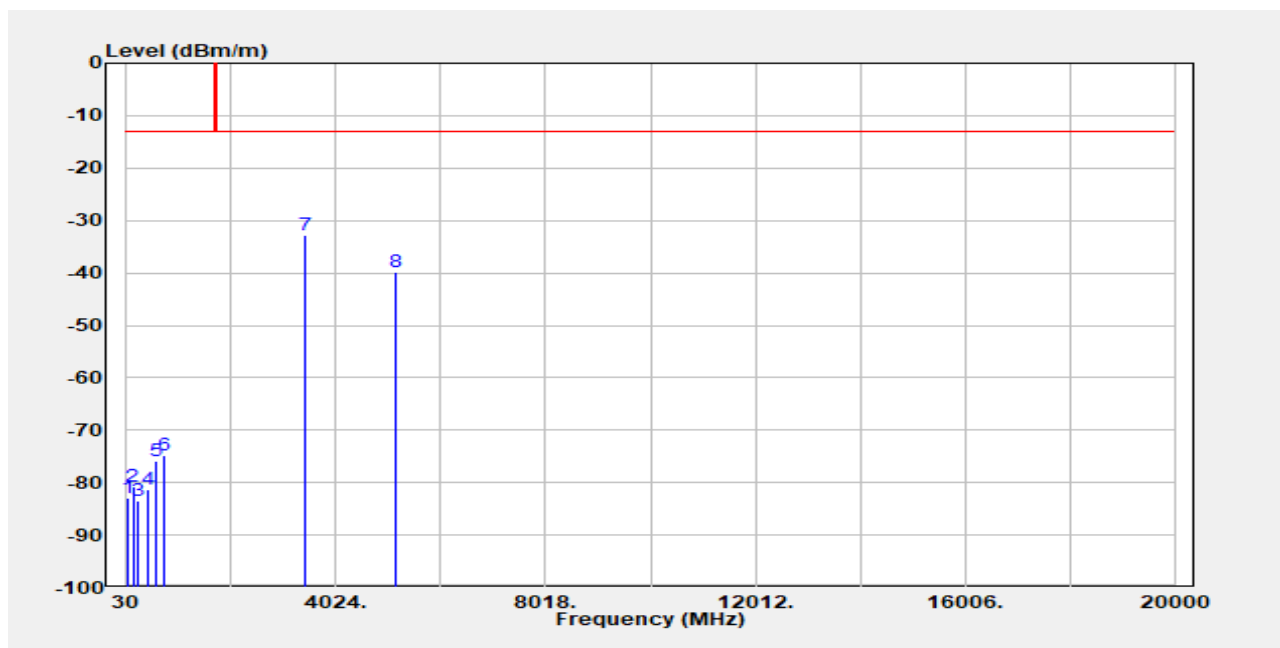
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1720 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
58.130	-83.00	-73.16	-9.10	-0.74	-13.00	-70.00
149.310	-80.74	-74.73	-4.84	-1.17	-13.00	-67.74
234.670	-83.50	-80.30	-1.59	-1.61	-13.00	-70.50
449.040	-81.29	-77.95	-1.10	-2.24	-13.00	-68.29
609.090	-75.91	-72.65	-0.63	-2.63	-13.00	-62.91
749.740	-74.89	-72.27	-0.03	-2.60	-13.00	-61.89
3440.000	-32.78	-39.16	12.70	-6.32	-13.00	-19.78
5160.000	-39.92	-44.60	12.56	-7.88	-13.00	-26.92

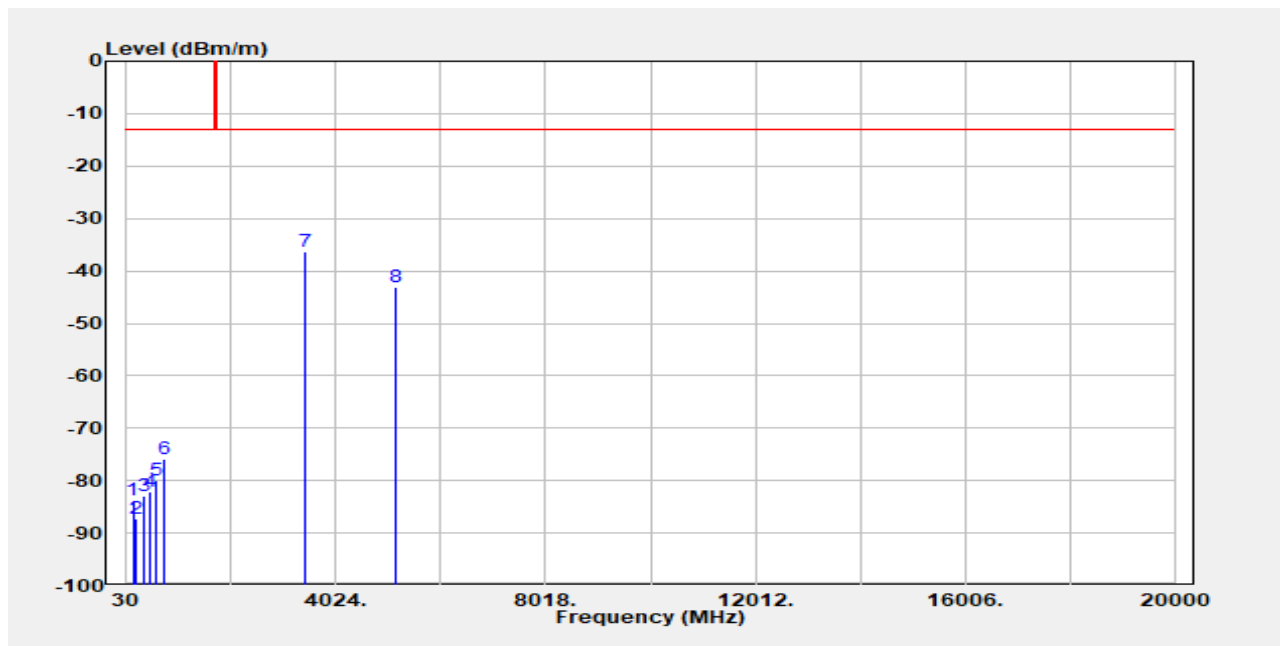
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1720 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.280	-83.84	-77.89	-4.79	-1.16	-13.00	-70.84
192.960	-87.37	-84.40	-1.51	-1.46	-13.00	-74.37
373.380	-82.85	-79.52	-1.28	-2.04	-13.00	-69.85
483.960	-82.16	-78.63	-1.11	-2.42	-13.00	-69.16
575.140	-79.97	-76.49	-0.74	-2.75	-13.00	-66.97
745.860	-75.80	-73.15	-0.07	-2.57	-13.00	-62.80
3440.000	-36.36	-42.74	12.70	-6.32	-13.00	-23.36
5160.000	-43.08	-47.77	12.56	-7.88	-13.00	-30.08

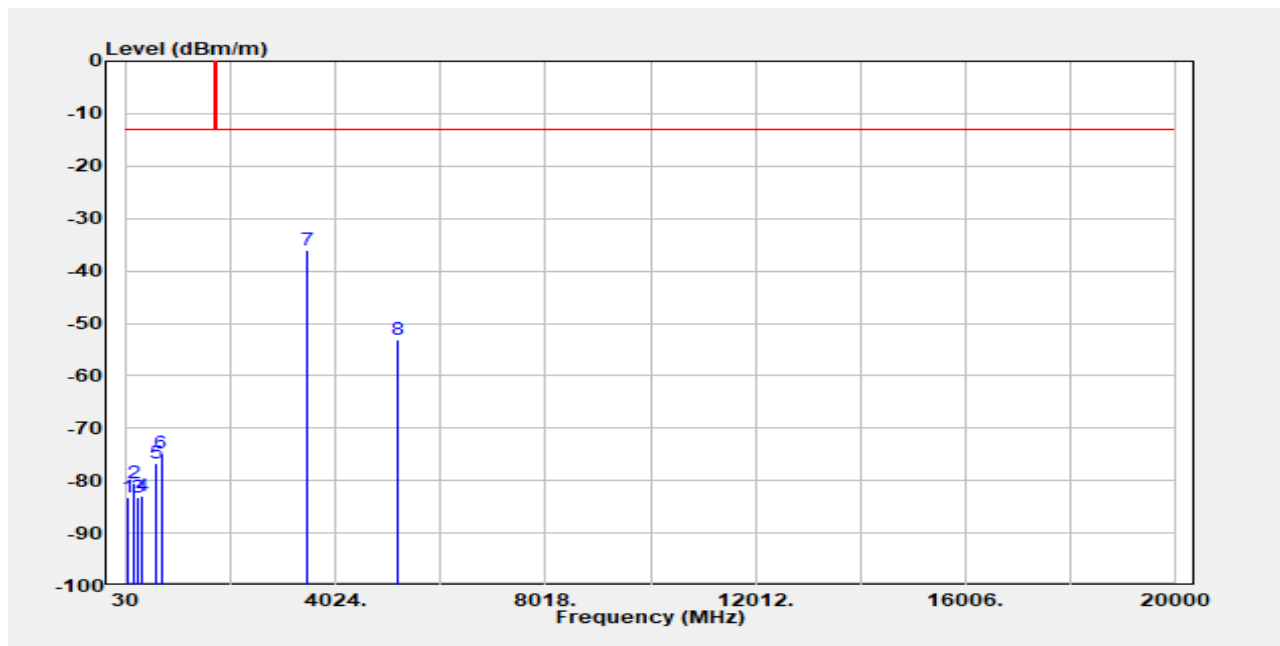
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-83.18	-74.12	-8.31	-0.76	-13.00	-70.18
152.220	-80.42	-74.58	-4.66	-1.19	-13.00	-67.42
234.670	-83.13	-79.93	-1.59	-1.61	-13.00	-70.13
324.880	-82.88	-79.89	-1.19	-1.80	-13.00	-69.88
577.080	-76.68	-73.13	-0.79	-2.77	-13.00	-63.68
686.690	-74.83	-71.51	-0.26	-3.07	-13.00	-61.83
3465.000	-35.99	-42.30	12.67	-6.36	-13.00	-22.99
5197.500	-53.03	-57.82	12.79	-7.99	-13.00	-40.03

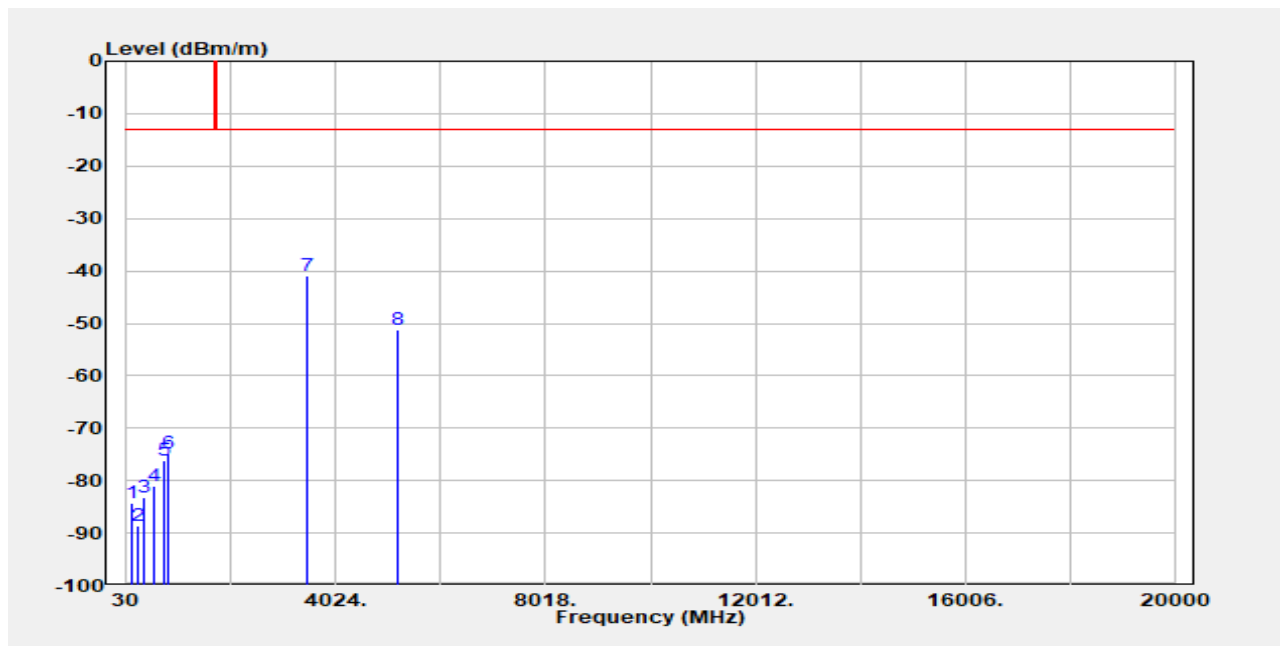
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1732.5 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.370	-84.39	-78.03	-5.16	-1.20	-13.00	-71.39
233.700	-88.70	-85.54	-1.55	-1.61	-13.00	-75.70
378.230	-83.10	-79.83	-1.24	-2.04	-13.00	-70.10
547.010	-81.15	-77.70	-1.07	-2.39	-13.00	-68.15
747.800	-76.21	-73.57	-0.05	-2.58	-13.00	-63.21
811.820	-74.79	-71.86	0.26	-3.19	-13.00	-61.79
3465.000	-40.91	-47.22	12.67	-6.36	-13.00	-27.91
5197.500	-51.28	-56.07	12.79	-7.99	-13.00	-38.28

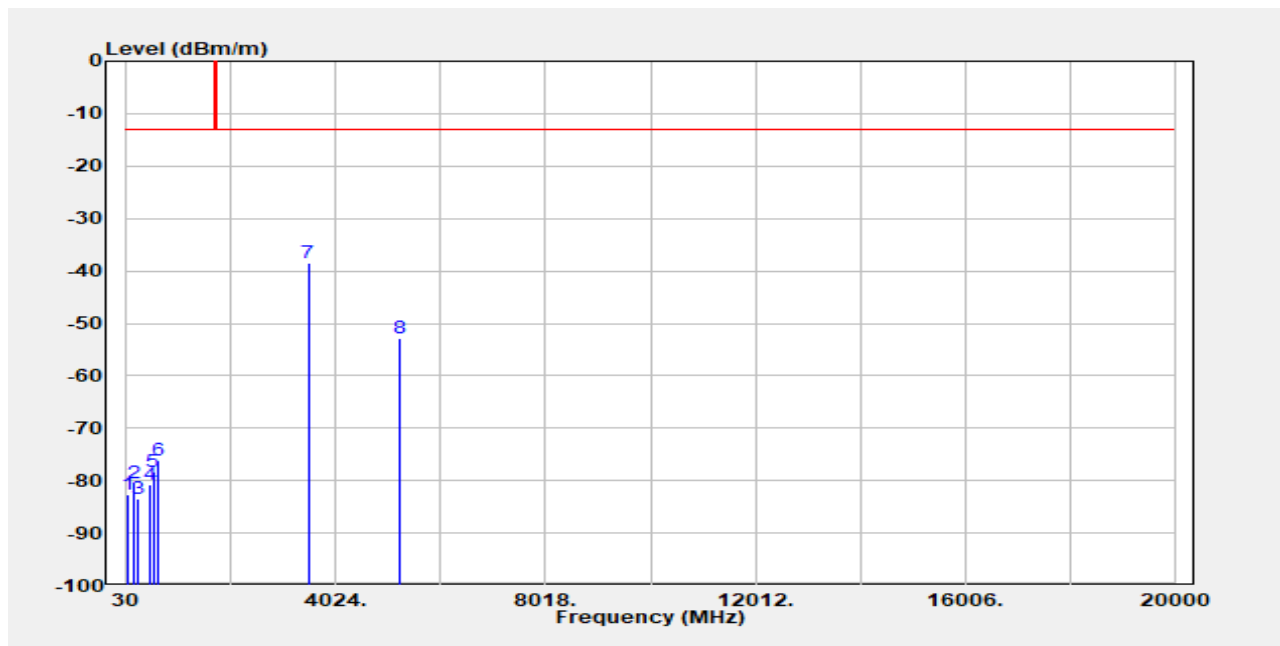
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1745 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.220	-82.62	-71.86	-10.04	-0.73	-13.00	-69.62
157.070	-80.47	-75.22	-4.01	-1.24	-13.00	-67.47
241.460	-83.45	-79.92	-1.89	-1.65	-13.00	-70.45
459.710	-80.84	-77.22	-1.17	-2.46	-13.00	-67.84
534.400	-78.28	-75.15	-0.95	-2.18	-13.00	-65.28
614.910	-76.23	-73.05	-0.65	-2.53	-13.00	-63.23
3490.000	-38.43	-44.66	12.62	-6.39	-13.00	-25.43
5235.000	-52.82	-57.77	13.01	-8.06	-13.00	-39.82

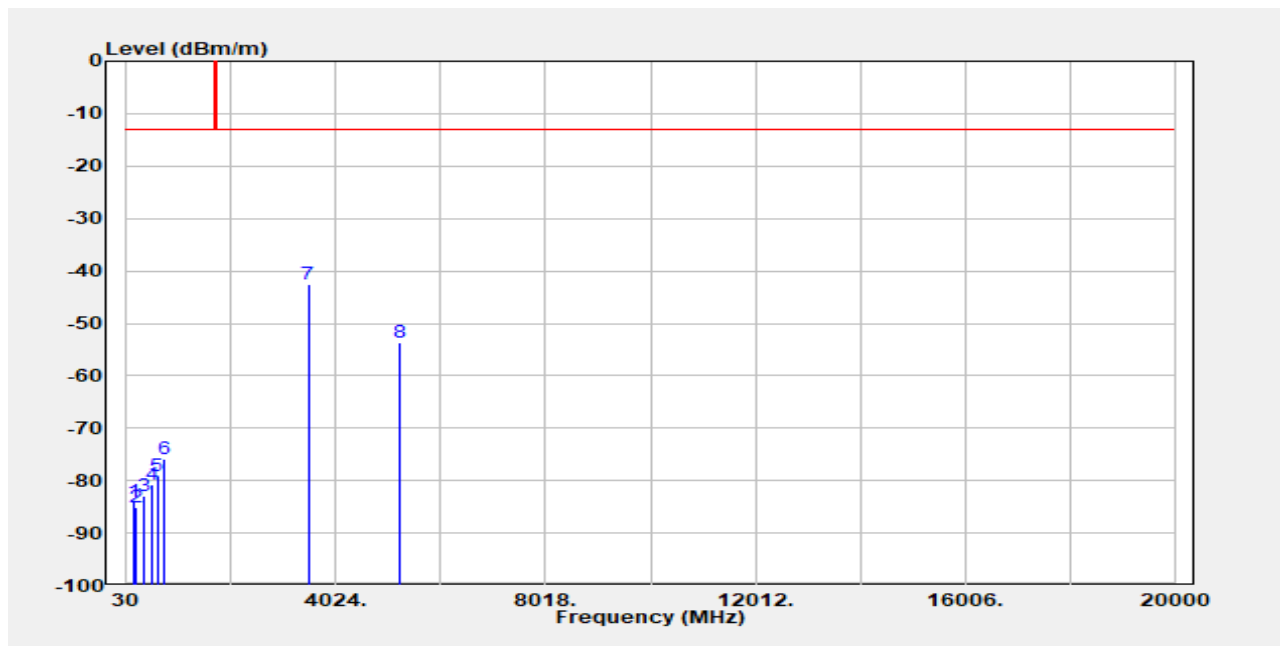
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Report Number :ER/2022/30008
 Operation Mode :LTE B4
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1745 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.160	-83.93	-78.35	-4.37	-1.21	-13.00	-70.93
195.870	-84.98	-82.04	-1.47	-1.46	-13.00	-71.98
349.130	-83.05	-79.51	-1.43	-2.11	-13.00	-70.05
527.610	-80.88	-77.92	-0.83	-2.12	-13.00	-67.88
611.030	-79.01	-75.77	-0.63	-2.61	-13.00	-66.01
743.920	-75.88	-73.21	-0.12	-2.55	-13.00	-62.88
3490.000	-42.54	-48.76	12.62	-6.39	-13.00	-29.54
5235.000	-53.61	-58.56	13.01	-8.06	-13.00	-40.61

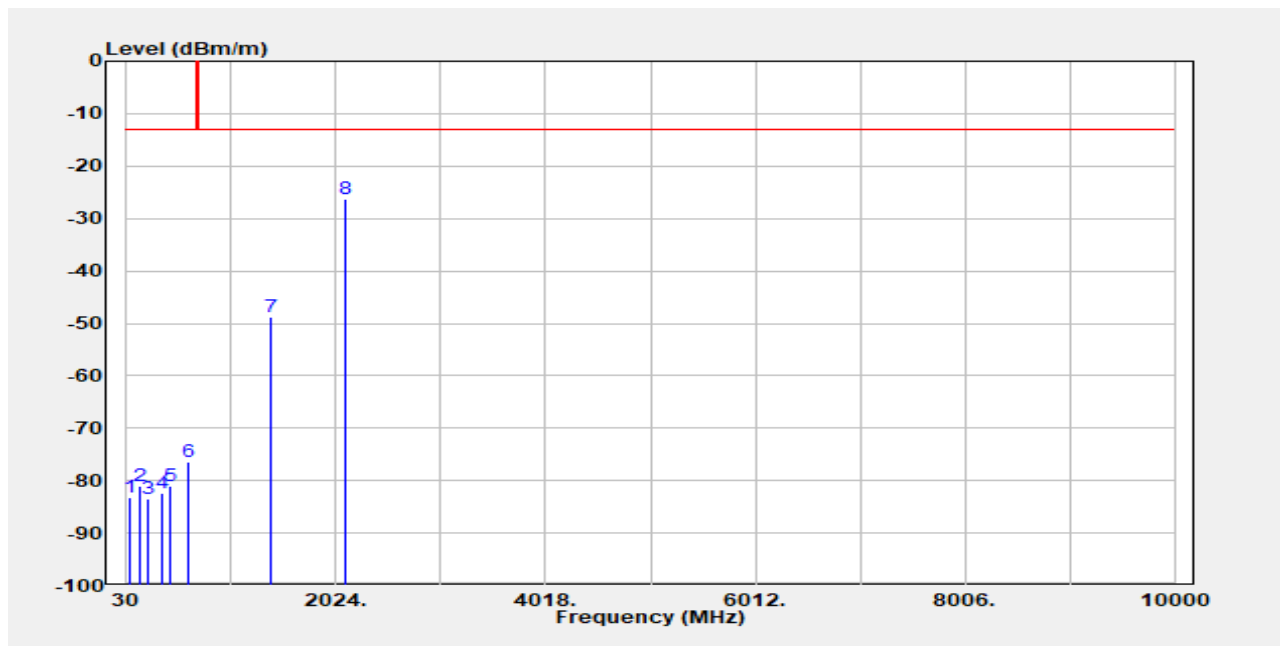
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :704 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.190	-83.18	-72.75	-9.70	-0.73	-13.00	-70.18
154.160	-81.00	-75.42	-4.37	-1.21	-13.00	-68.00
239.520	-83.42	-79.97	-1.80	-1.64	-13.00	-70.42
371.440	-82.30	-78.93	-1.33	-2.04	-13.00	-69.30
450.010	-81.08	-77.79	-1.06	-2.23	-13.00	-68.08
617.820	-76.50	-73.37	-0.67	-2.47	-13.00	-63.50
1408.000	-48.72	-52.64	7.95	-4.02	-13.00	-35.72
2112.000	-26.33	-31.20	9.78	-4.91	-13.00	-13.33

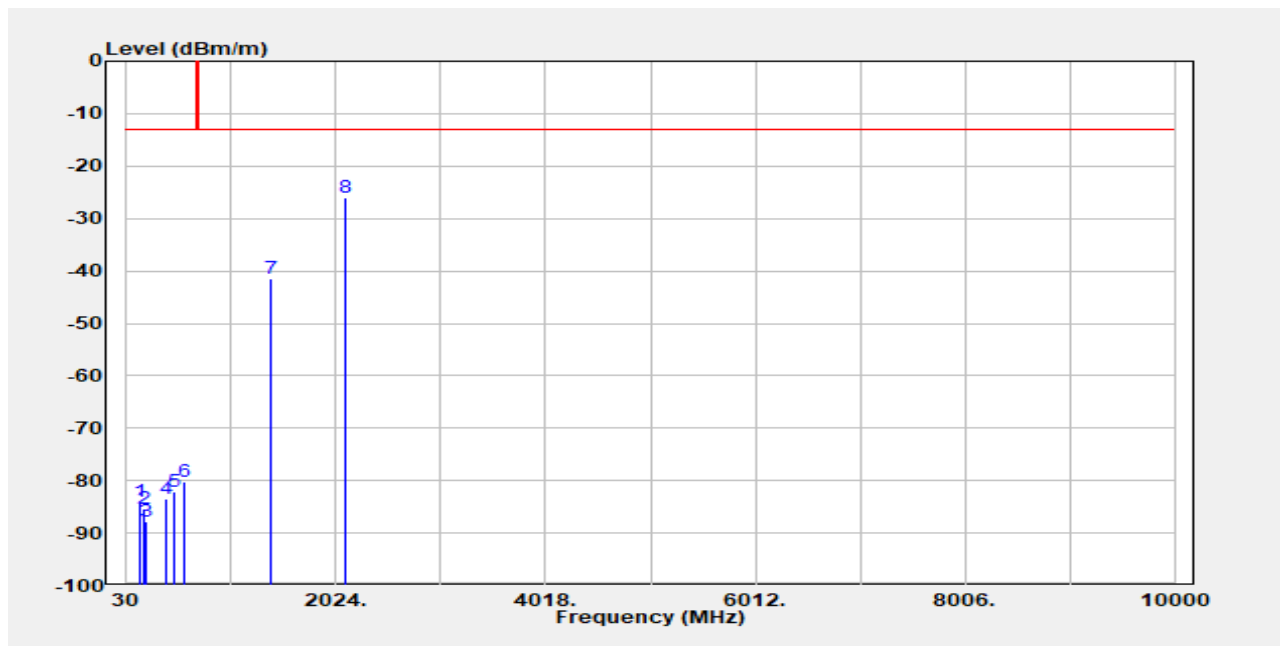
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :704 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
164.830	-84.11	-79.62	-3.20	-1.29	-13.00	-71.11
192.960	-85.31	-82.34	-1.51	-1.46	-13.00	-72.31
206.540	-87.83	-84.81	-1.53	-1.49	-13.00	-74.83
404.420	-83.49	-79.75	-1.67	-2.07	-13.00	-70.49
478.140	-82.21	-78.65	-1.10	-2.46	-13.00	-69.21
571.260	-80.28	-76.79	-0.79	-2.70	-13.00	-67.28
1408.000	-41.37	-45.29	7.95	-4.02	-13.00	-28.37
2112.000	-26.15	-31.02	9.78	-4.91	-13.00	-13.15

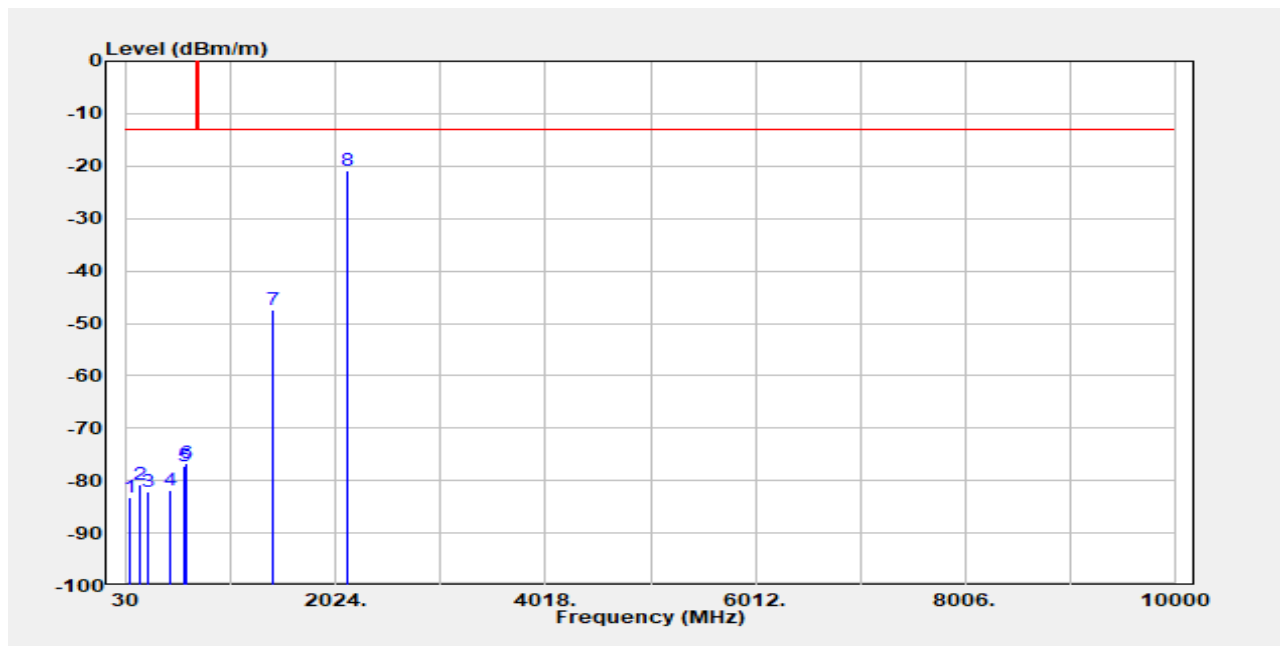
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.310	-83.12	-71.18	-11.22	-0.71	-13.00	-70.12
156.100	-80.80	-75.34	-4.24	-1.23	-13.00	-67.80
236.610	-82.21	-78.91	-1.68	-1.63	-13.00	-69.21
435.460	-81.90	-78.40	-1.34	-2.17	-13.00	-68.90
575.140	-77.26	-73.78	-0.74	-2.75	-13.00	-64.26
603.270	-76.71	-73.39	-0.68	-2.64	-13.00	-63.71
1415.000	-47.44	-51.40	7.99	-4.03	-13.00	-34.44
2122.500	-20.80	-25.54	9.67	-4.93	-13.00	-7.80

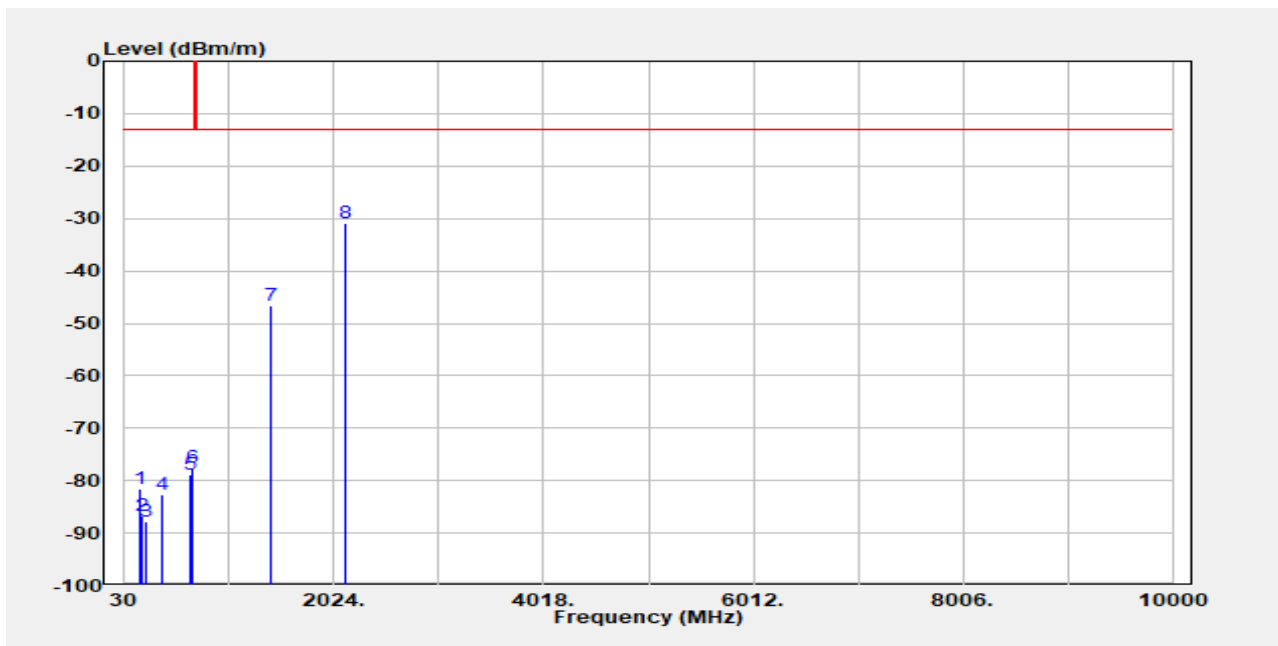
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :707.5 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
173.560	-81.51	-77.93	-2.24	-1.34	-13.00	-68.51
203.630	-86.84	-83.76	-1.60	-1.48	-13.00	-73.84
233.700	-87.81	-84.65	-1.55	-1.61	-13.00	-74.81
388.900	-82.56	-79.20	-1.29	-2.07	-13.00	-69.56
649.830	-78.88	-75.76	-0.47	-2.65	-13.00	-65.88
682.810	-77.47	-74.19	-0.30	-2.99	-13.00	-64.47
1415.000	-46.55	-50.51	7.99	-4.03	-13.00	-33.55
2122.500	-30.94	-35.69	9.67	-4.93	-13.00	-17.94

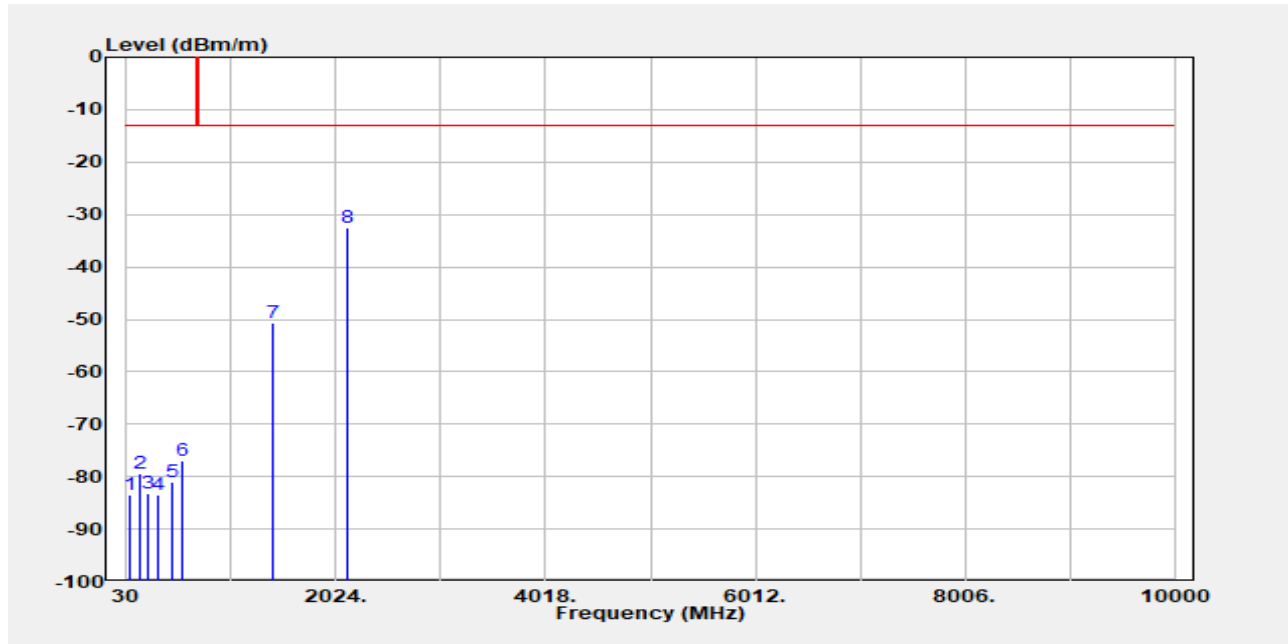
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :711 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.160	-83.38	-73.28	-9.37	-0.73	-13.00	-70.38
151.250	-79.39	-73.48	-4.73	-1.17	-13.00	-66.39
238.550	-83.32	-79.92	-1.76	-1.64	-13.00	-70.32
322.940	-83.39	-80.42	-1.20	-1.77	-13.00	-70.39
465.530	-80.92	-77.46	-1.07	-2.40	-13.00	-67.92
564.470	-76.87	-73.37	-0.80	-2.69	-13.00	-63.87
1422.000	-50.63	-54.62	8.03	-4.04	-13.00	-37.63
2133.000	-32.48	-37.10	9.57	-4.95	-13.00	-19.48

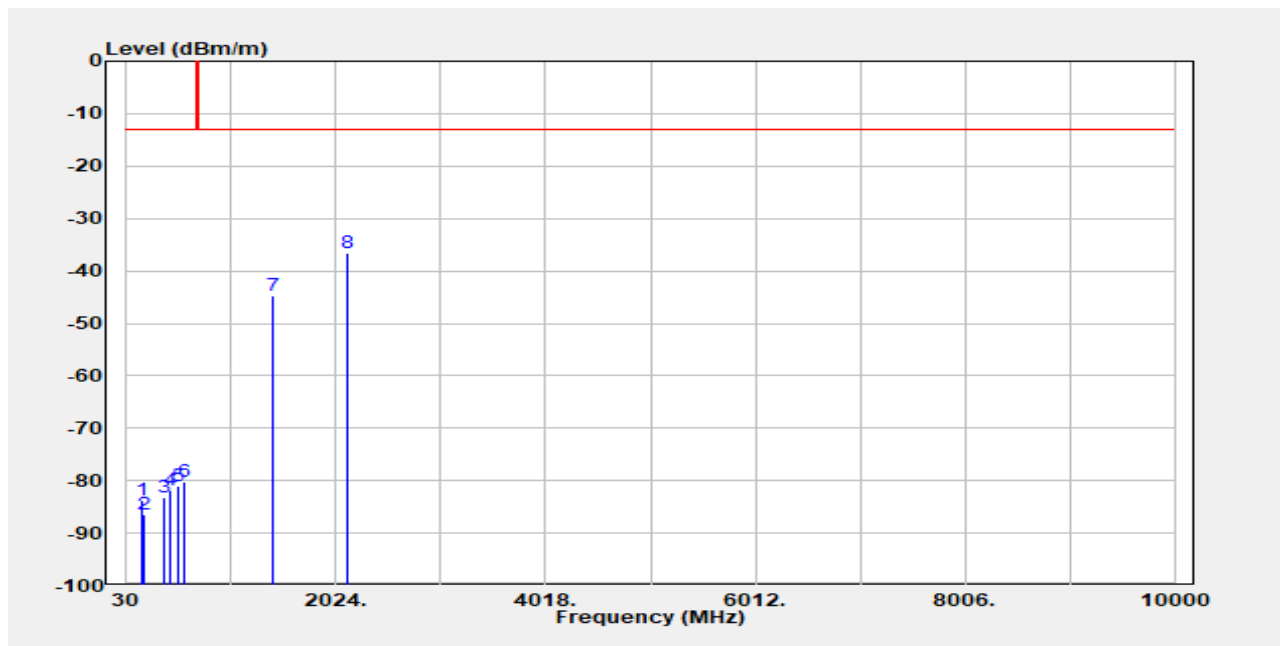
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Report Number :ER/2022/30008
 Operation Mode :LTE B12
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :711 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
173.560	-83.87	-80.29	-2.24	-1.34	-13.00	-70.87
194.900	-86.44	-83.56	-1.42	-1.46	-13.00	-73.44
383.080	-83.17	-79.89	-1.22	-2.05	-13.00	-70.17
450.010	-81.77	-78.47	-1.06	-2.23	-13.00	-68.77
524.700	-80.90	-77.89	-0.83	-2.19	-13.00	-67.90
572.230	-80.10	-76.62	-0.78	-2.71	-13.00	-67.10
1422.000	-44.75	-48.74	8.03	-4.04	-13.00	-31.75
2133.000	-36.45	-41.08	9.57	-4.95	-13.00	-23.45

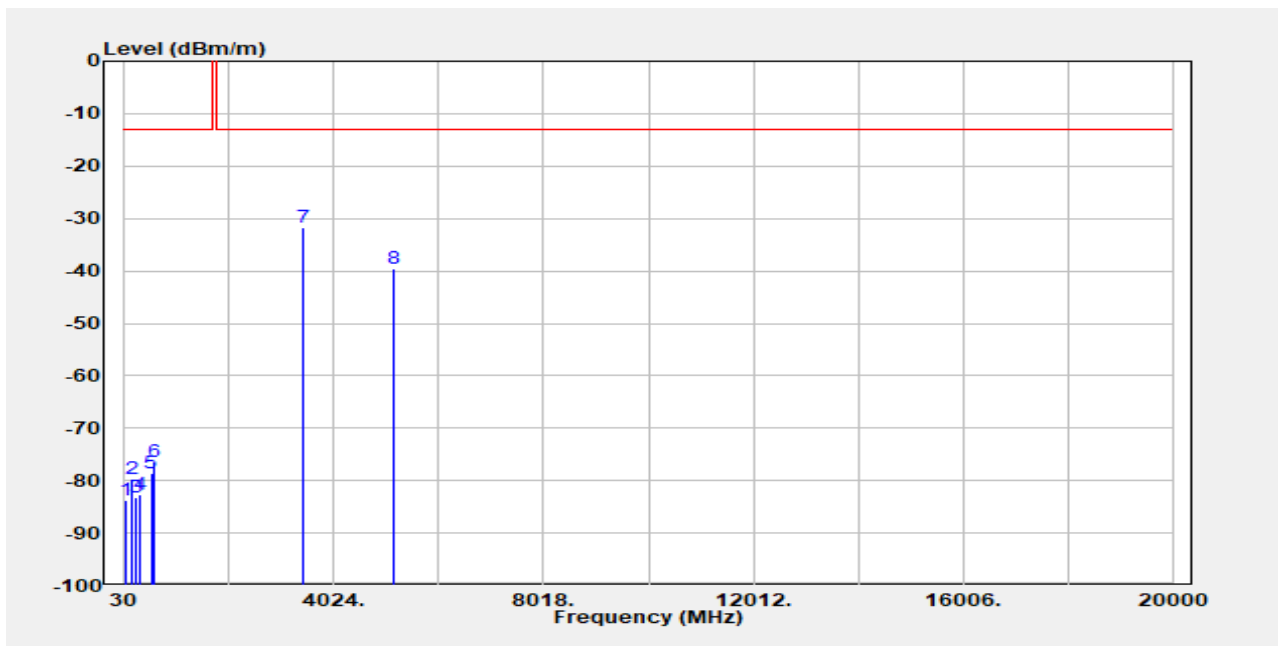
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Report Number :ER/2022/30008
 Operation Mode :LTE B66
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1720 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.100	-83.81	-74.38	-8.68	-0.74	-13.00	-70.81
156.100	-79.77	-74.31	-4.24	-1.23	-13.00	-66.77
237.580	-83.13	-79.78	-1.72	-1.63	-13.00	-70.13
326.820	-82.59	-79.57	-1.18	-1.84	-13.00	-69.59
534.400	-78.46	-75.33	-0.95	-2.18	-13.00	-65.46
608.120	-76.46	-73.18	-0.65	-2.63	-13.00	-63.46
3440.000	-31.62	-38.00	12.70	-6.32	-13.00	-18.62
5160.000	-39.69	-44.37	12.56	-7.88	-13.00	-26.69

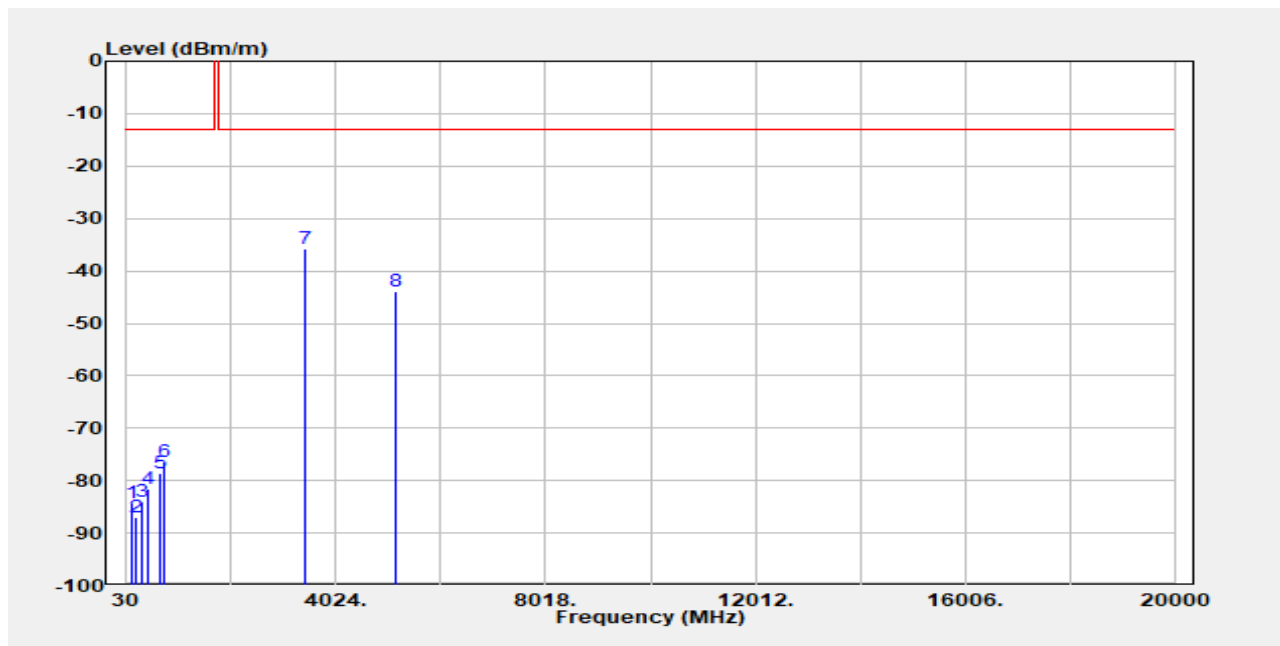
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Report Number :ER/2022/30008
 Operation Mode :LTE B66
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Frequency :1720 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
146.400	-84.15	-77.72	-5.22	-1.22	-13.00	-71.15
196.840	-87.10	-84.20	-1.44	-1.46	-13.00	-74.10
340.400	-83.94	-80.68	-1.30	-1.96	-13.00	-70.94
446.130	-81.62	-78.16	-1.21	-2.25	-13.00	-68.62
674.080	-78.51	-75.06	-0.37	-3.08	-13.00	-65.51
745.860	-76.33	-73.69	-0.07	-2.57	-13.00	-63.33
3440.000	-35.67	-42.05	12.70	-6.32	-13.00	-22.67
5160.000	-43.97	-48.65	12.56	-7.88	-13.00	-30.97

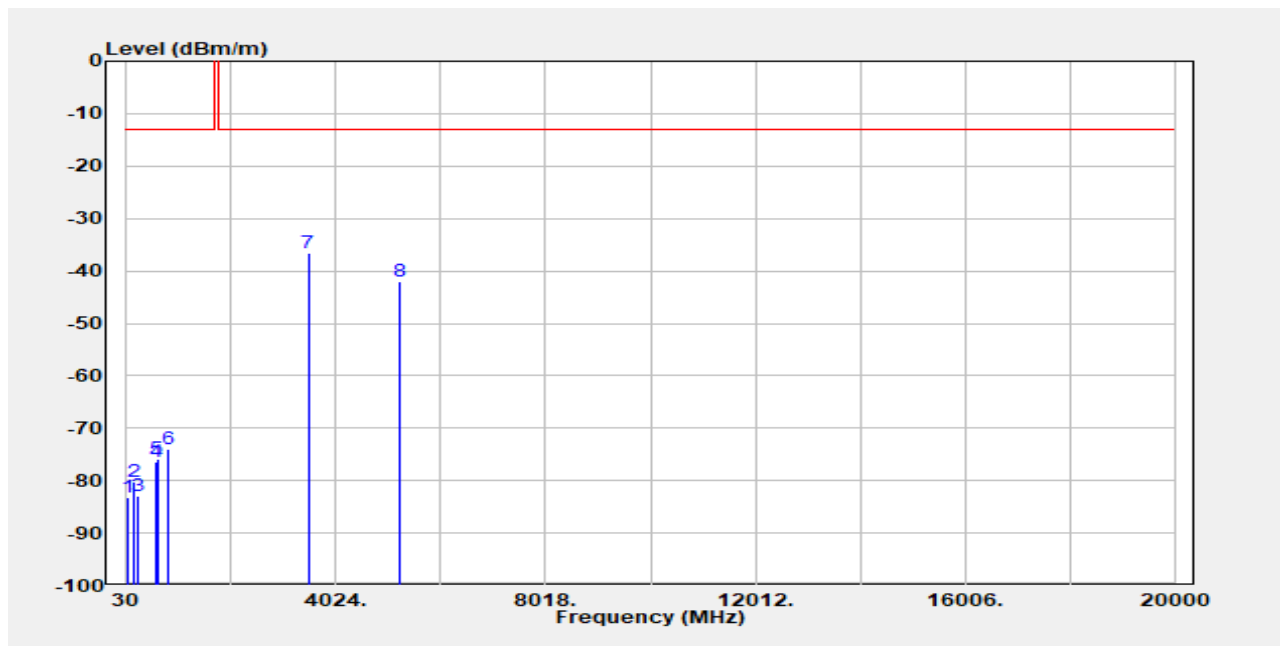
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Report Number :ER/2022/30008
 Operation Mode :LTE B66
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1745 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.400	-83.20	-69.73	-12.77	-0.70	-13.00	-70.20
159.980	-80.31	-75.29	-3.75	-1.27	-13.00	-67.31
234.670	-82.87	-79.67	-1.59	-1.61	-13.00	-69.87
581.930	-76.38	-72.66	-0.91	-2.81	-13.00	-63.38
611.030	-75.79	-72.56	-0.63	-2.61	-13.00	-62.79
804.060	-74.08	-70.92	0.10	-3.26	-13.00	-61.08
3490.000	-36.54	-42.76	12.62	-6.39	-13.00	-23.54
5235.000	-41.97	-46.93	13.01	-8.06	-13.00	-28.97

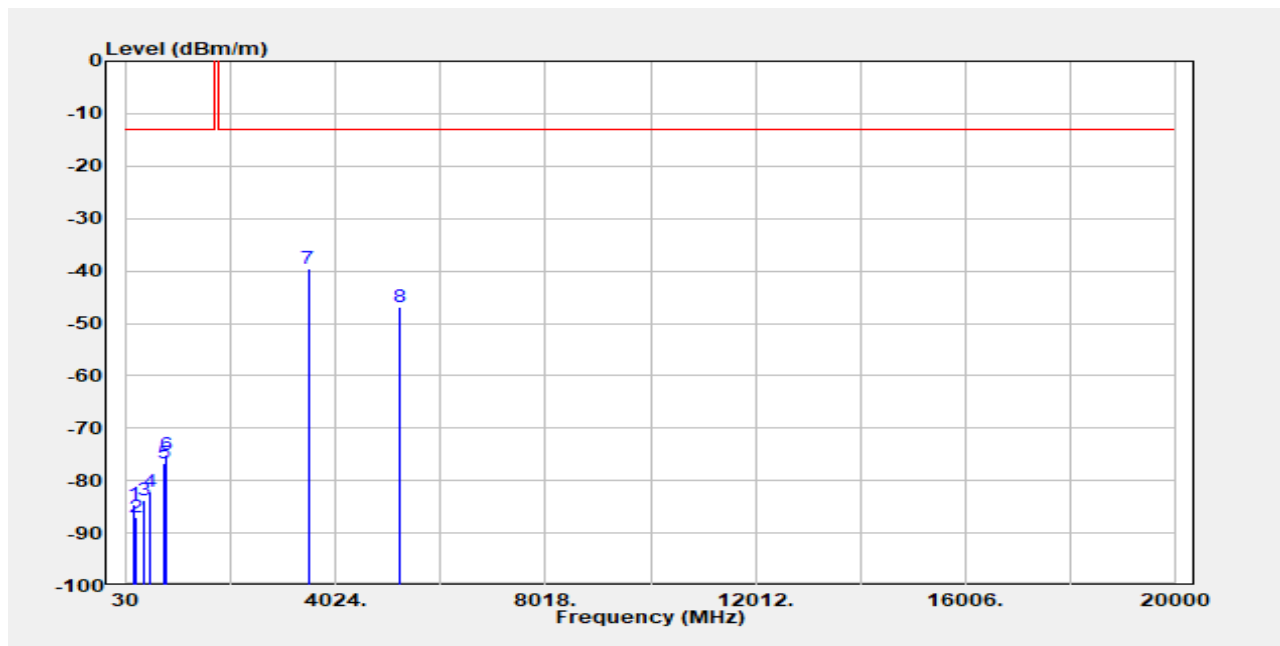
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Report Number :ER/2022/30008
 Operation Mode :LTE B66
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Frequency :1745 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
176.470	-84.56	-81.20	-1.99	-1.37	-13.00	-71.56
203.630	-87.00	-83.93	-1.60	-1.48	-13.00	-74.00
345.250	-83.68	-80.27	-1.37	-2.04	-13.00	-70.68
478.140	-82.05	-78.49	-1.10	-2.46	-13.00	-69.05
735.190	-76.65	-73.90	-0.11	-2.64	-13.00	-63.65
787.570	-75.16	-72.18	0.15	-3.13	-13.00	-62.16
3490.000	-39.69	-45.91	12.62	-6.39	-13.00	-26.69
5235.000	-46.97	-51.92	13.01	-8.06	-13.00	-33.97

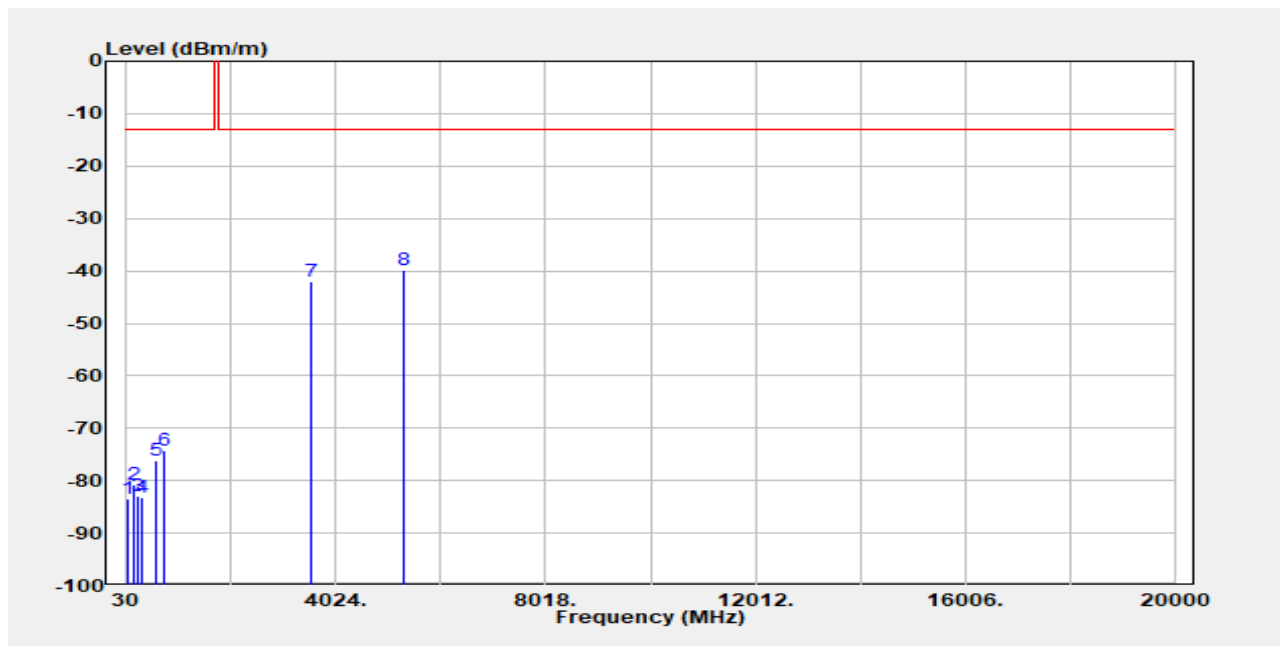
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Report Number :ER/2022/30008
 Operation Mode :LTE B66
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1770 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.040	-83.39	-74.32	-8.31	-0.76	-13.00	-70.39
154.160	-80.79	-75.22	-4.37	-1.21	-13.00	-67.79
235.640	-83.00	-79.75	-1.63	-1.62	-13.00	-70.00
323.910	-83.23	-80.25	-1.20	-1.78	-13.00	-70.23
607.150	-76.16	-72.87	-0.66	-2.63	-13.00	-63.16
745.860	-74.36	-71.72	-0.07	-2.57	-13.00	-61.36
3540.000	-42.02	-48.06	12.44	-6.40	-13.00	-29.02
5310.000	-39.80	-44.85	13.22	-8.16	-13.00	-26.80

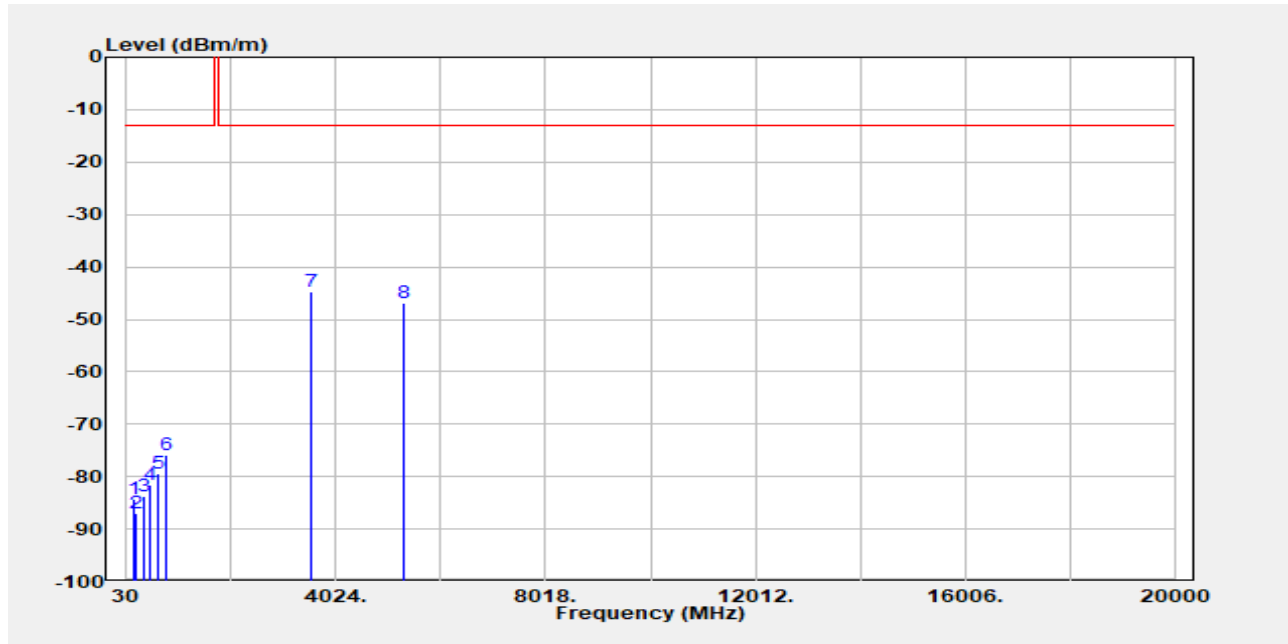
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 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Frequency :1770 MHz

Test Site :SAC 3
 Test Date :2022-04-20
 Temp./Humi. :22.5/55
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.010	-84.15	-79.00	-3.90	-1.26	-13.00	-71.15
207.510	-86.98	-84.00	-1.49	-1.49	-13.00	-73.98
356.890	-83.82	-80.14	-1.65	-2.03	-13.00	-70.82
457.770	-81.46	-77.92	-1.12	-2.41	-13.00	-68.46
613.940	-79.39	-76.20	-0.64	-2.55	-13.00	-66.39
779.810	-75.83	-72.79	0.01	-3.04	-13.00	-62.83
3540.000	-44.72	-50.76	12.44	-6.40	-13.00	-31.72
5310.000	-46.82	-51.87	13.22	-8.16	-13.00	-33.82

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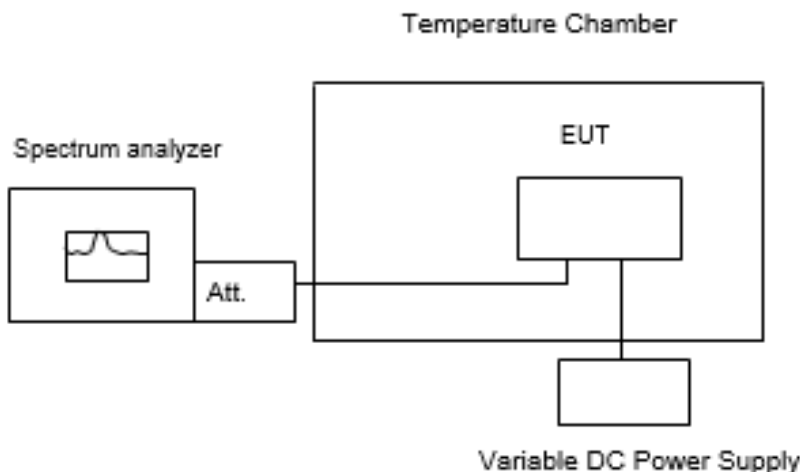
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11 FREQUENCY STABILITY MEASUREMENT

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.

11.4 Measurement Result

Note: The battery is rated 3.7V dc.

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Reference Freq.:		LTE 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	1880.000003	0.0016	+/- 2.5 ppm	
3.7	25	1880.000003	0.0016		
3.145	25	1879.999994	-0.0032		
2.7 (End Point)	25	1879.999995	-0.0027		
Freq. ERROR vs. Temp.					
3.7	-30	1880.000005	0.0027	+/- 2.5 ppm	
3.7	-20	1879.999991	-0.0048		
3.7	-10	1879.999998	-0.0011		
3.7	0	1879.999991	-0.0048		
3.7	10	1879.999995	-0.0027		
3.7	20	1879.999998	-0.0011		
3.7	30	1880.000007	0.0037		
3.7	40	1880.000001	0.0005		
3.7	50	1879.999993	-0.0037		
Reference Freq.:		LTE 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	1732.499999	-0.0006	+/- 2.5 ppm	
3.7	25	1732.500000	0.0000		
3.145	25	1732.499994	-0.0035		
2.7 (End Point)	25	1732.500007	0.0040		
Freq. ERROR vs. Temp.					
3.7	-30	1732.500001	0.0006	+/- 2.5 ppm	
3.7	-20	1732.499996	-0.0023		
3.7	-10	1732.499992	-0.0046		
3.7	0	1732.499992	-0.0046		
3.7	10	1732.499998	-0.0012		
3.7	20	1732.500005	0.0029		
3.7	30	1732.500009	0.0052		
3.7	40	1732.500005	0.0029		
3.7	50	1732.500007	0.0040		

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Reference Freq.:		LTE 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	707.500005	0.0071	+/- 2.5 ppm	
3.7	25	707.499990	-0.0141		
3.145	25	707.499997	-0.0042		
2.7 (End Point)	25	707.500001	0.0014		
Freq. ERROR vs. Temp.					
3.7	-30	707.500002	0.0028	+/- 2.5 ppm	
3.7	-20	707.500004	0.0057		
3.7	-10	707.500010	0.0141		
3.7	0	707.500009	0.0127		
3.7	10	707.500002	0.0028		
3.7	20	707.499997	-0.0042		
3.7	30	707.500003	0.0042		
3.7	40	707.499995	-0.0071		
3.7	50	707.500005	0.0071		
Reference Freq.:		LTE B66 Mid Channel		1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.255	25	1745.000001	0.0006	+/- 2.5 ppm	
3.7	25	1744.999993	-0.0040		
3.145	25	1744.999989	-0.0063		
2.7 (End Point)	25	1744.999994	-0.0034		
Freq. ERROR vs. Temp.					
3.7	-30	1745.000004	0.0023	+/- 2.5 ppm	
3.7	-20	1745.000003	0.0017		
3.7	-10	1744.999996	-0.0023		
3.7	0	1745.000000	0.0000		
3.7	10	1745.000002	0.0011		
3.7	20	1744.999992	-0.0046		
3.7	30	1745.000008	0.0046		
3.7	40	1744.999999	-0.0006		
3.7	50	1744.999996	-0.0023		

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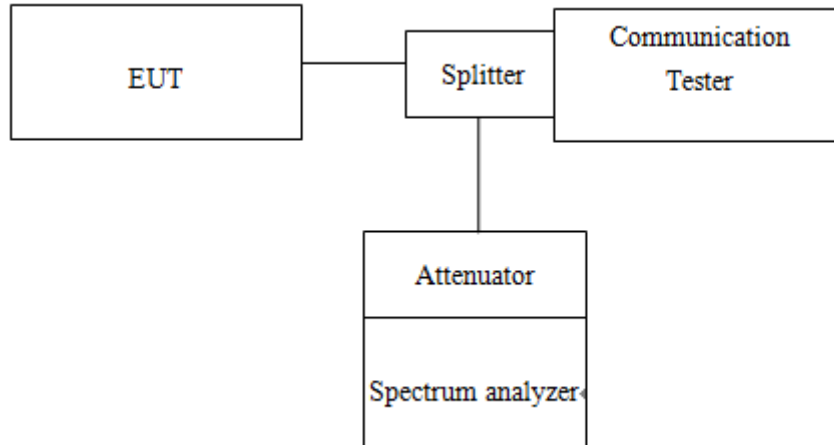
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12 PEAK TO AVERAGE RATIO

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

LTE BAND 2									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1850.7	18607	N/A	5.79	13	1851.5	18615	N/A	5.89	13
1880.0	18900	N/A	5.66	13	1880.0	18900	N/A	5.80	13
1909.3	19193	N/A	5.56	13	1908.5	19185	N/A	6.21	13

LTE BAND 2									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1852.5	18625	N/A	5.82	13	1855.0	18650	5.18	N/A	13
1880.0	18900	N/A	5.77	13	1880.0	18900	5	N/A	13
1907.5	19175	N/A	5.98	13	1905.0	19150	4.98	N/A	13

LTE BAND 2									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1857.5	18675	5.36	N/A	13	1860.0	18700	5.08	N/A	13
1880.0	18900	4.99	N/A	13	1880.0	18900	5.07	N/A	13
1902.5	19125	4.82	N/A	13	1900.0	19100	4.85	N/A	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)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1710.7	19957	N/A	5.40	13	1711.5	19965	N/A	5.55	13
1732.5	20175	N/A	5.54	13	1732.5	20175	N/A	5.76	13
1754.3	20393	N/A	4.95	13	1753.5	20385	N/A	5.21	13

LTE BAND 4									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1712.5	19975	N/A	5.74	13	1715.0	20000	4.91	N/A	13
1732.5	20175	N/A	5.70	13	1732.5	20175	4.66	N/A	13
1752.5	20375	N/A	5.08	13	1750.0	20350	4.66	N/A	13

LTE BAND 4									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1717.5	20025	4.74	N/A	13	1720.0	20050	4.74	N/A	13
1732.5	20175	4.69	N/A	13	1732.5	20175	4.78	N/A	13
1747.5	20325	4.58	N/A	13	1745.0	20300	4.69	N/A	13

LTE BAND 12									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
699.7	23017	N/A	6.10	13	700.5	23025	N/A	6.16	13
707.5	23095	N/A	5.95	13	707.5	23095	N/A	6.14	13
715.3	23173	N/A	5.70	13	714.5	23165	N/A	5.89	13

LTE BAND 12									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
701.5	23035	N/A	5.88	13	704.0	23060	5.09	N/A	13
707.5	23095	N/A	5.95	13	707.5	23095	5.43	N/A	13
713.5	23155	N/A	5.87	13	711.0	23130	5.17	N/A	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)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1710.7	131979	N/A	5.16	13	1711.5	131987	N/A	5.57	13
1745.0	132322	N/A	4.64	13	1745.0	132322	N/A	5.40	13
1779.3	132665	N/A	4.82	13	1778.5	132657	N/A	5.47	13

LTE BAND 66									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1712.5	131997	N/A	5.53	13	1715.0	132022	4.7	N/A	13
1745.0	132322	N/A	5.15	13	1745.0	132322	4.76	N/A	13
1777.5	132647	N/A	5.35	13	1775.0	132622	4.9	N/A	13

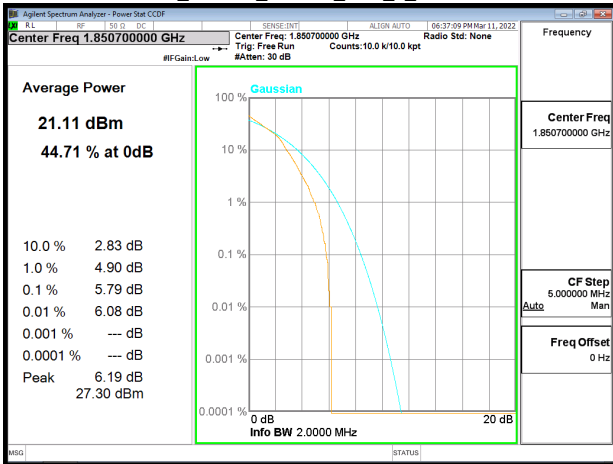
LTE BAND 66									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1717.5	132047	5.01	N/A	13	1720.0	132072	5.5	N/A	13
1745.0	132322	4.82	N/A	13	1745.0	132322	5.65	N/A	13
1772.5	132597	4.89	N/A	13	1770.0	132572	5.75	N/A	13

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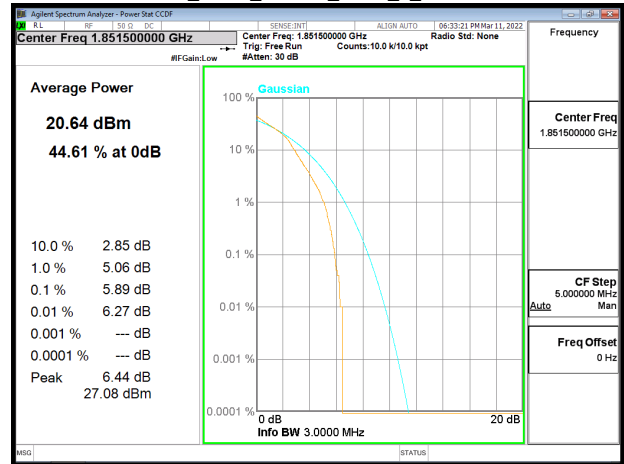
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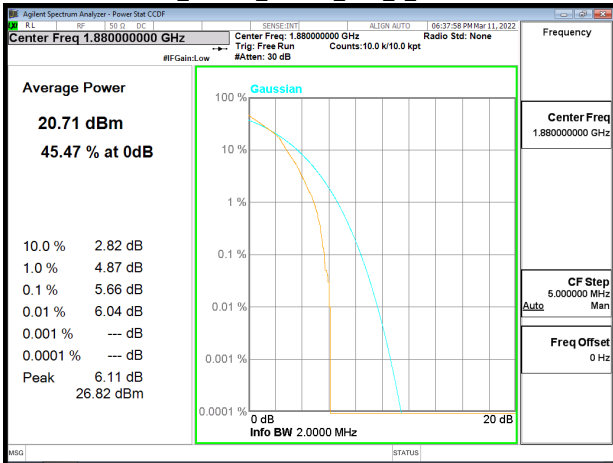
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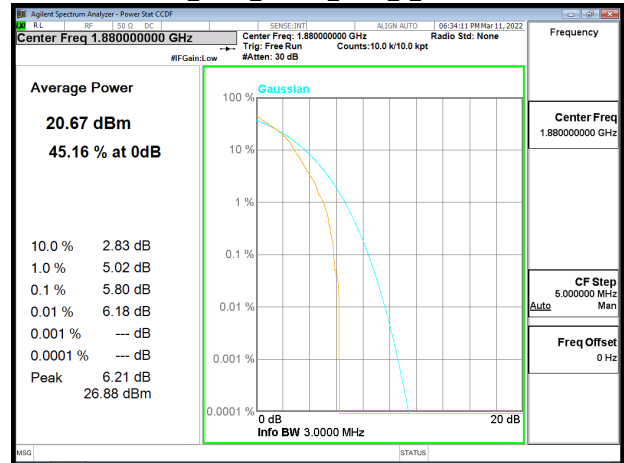
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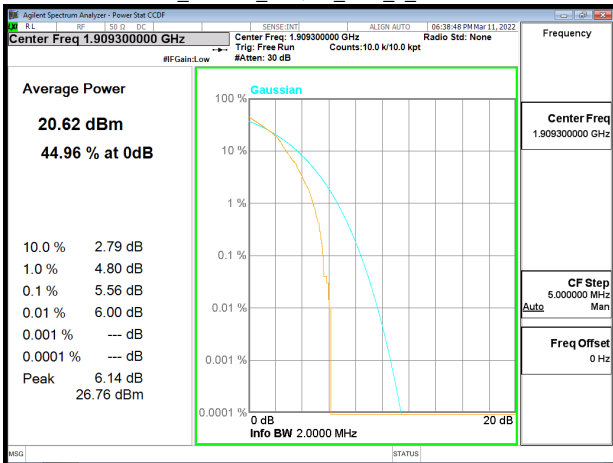
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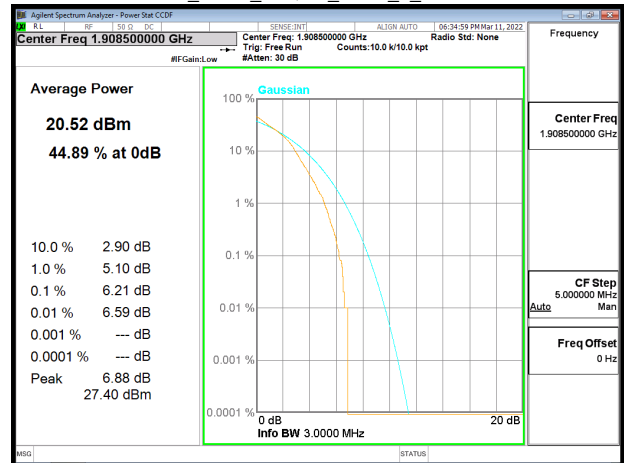
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Band2_3MHz_16QAM_RB15_0_CH19185

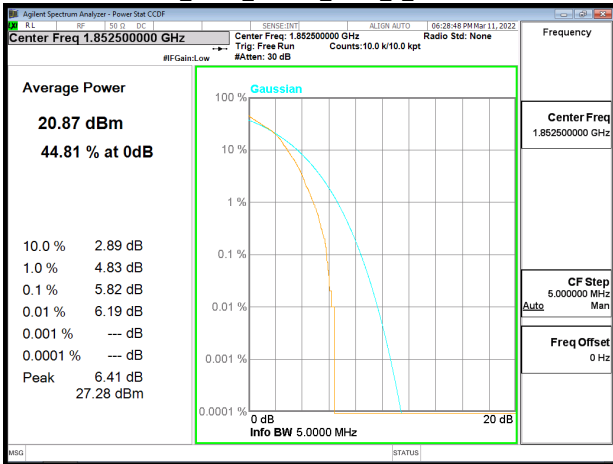


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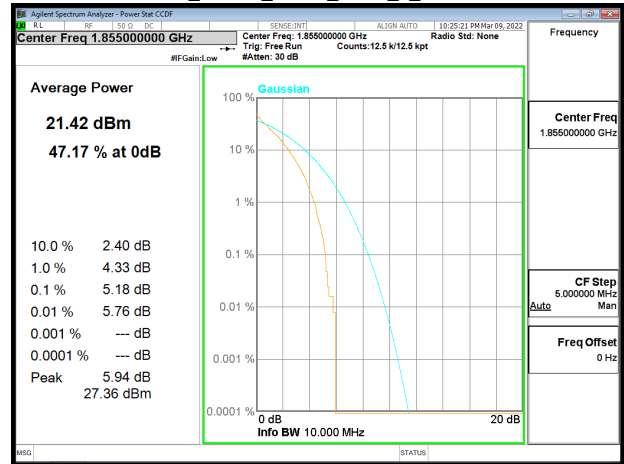
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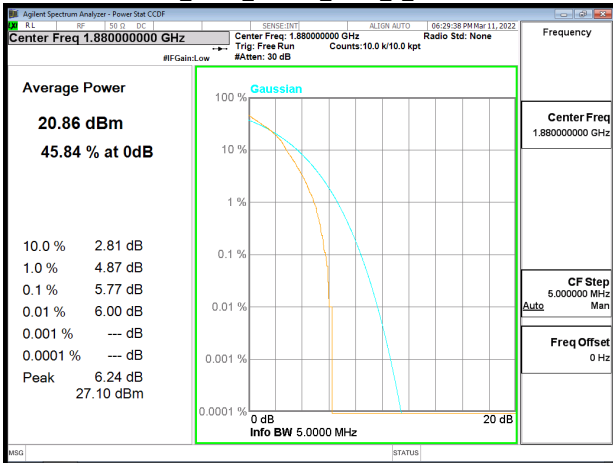
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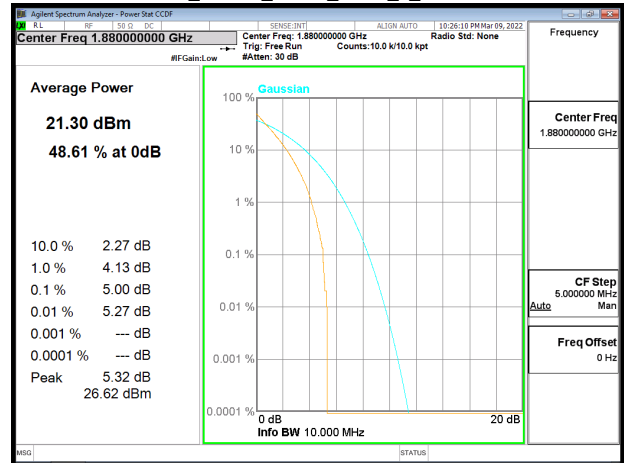
Band2_10MHz_QPSK_RB50_0_CH18625



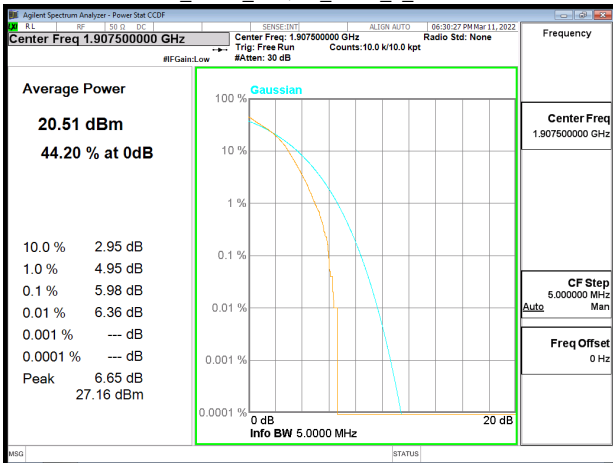
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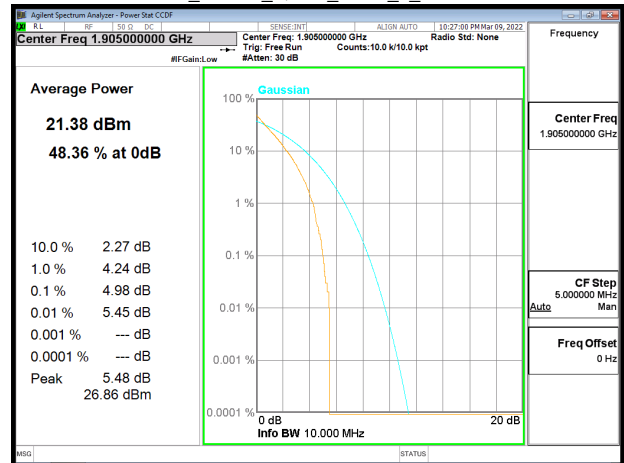
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Band2_5MHz_16QAM_RB25_0_CH19175



Band2_10MHz_QPSK_RB50_0_CH19175

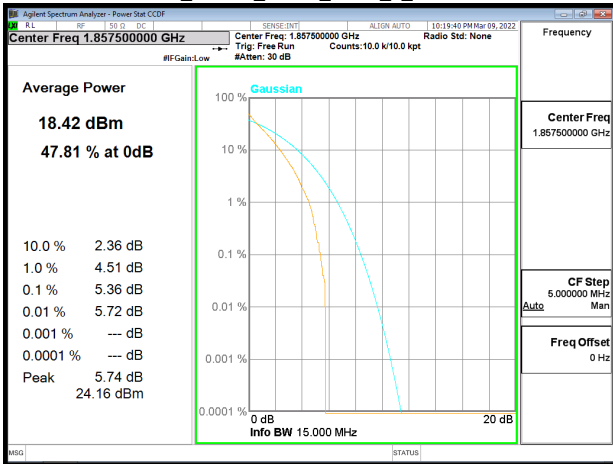


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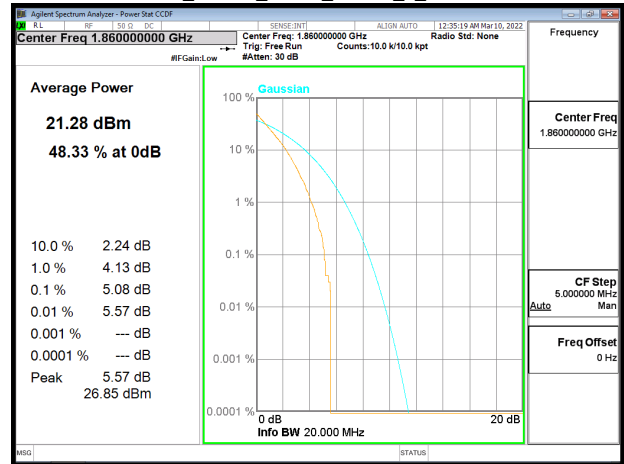
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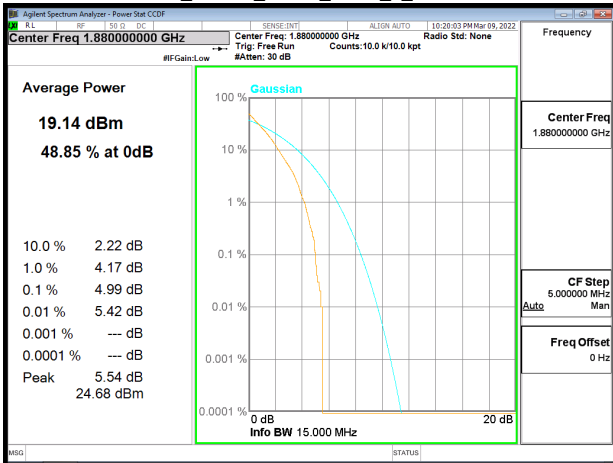
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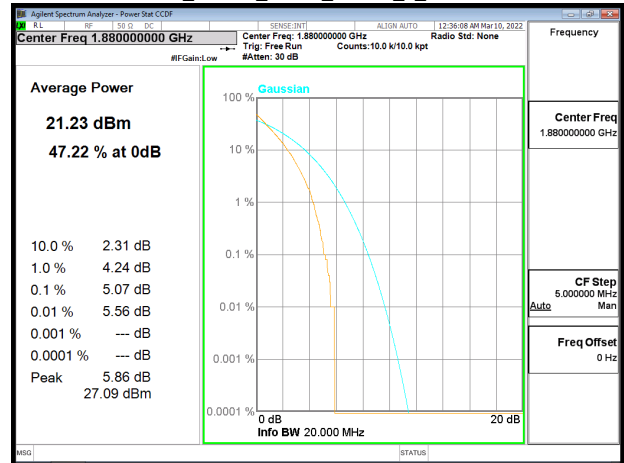
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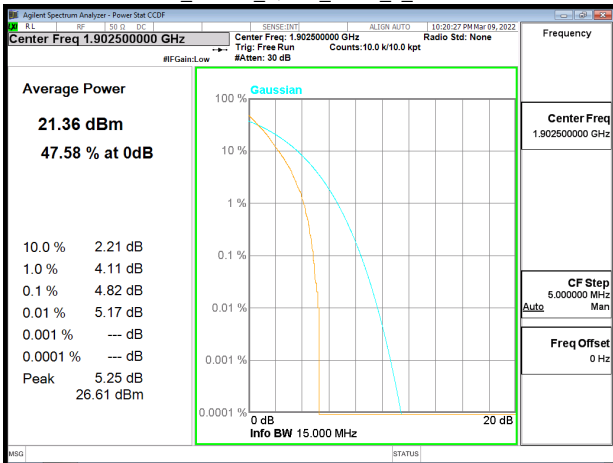
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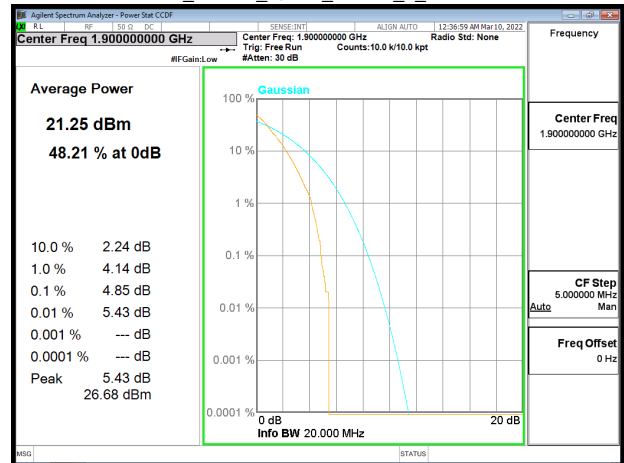
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Band2_15MHz_QPSK_RB75_0_CH19125



Band2_20MHz_QPSK_RB100_0_CH19100

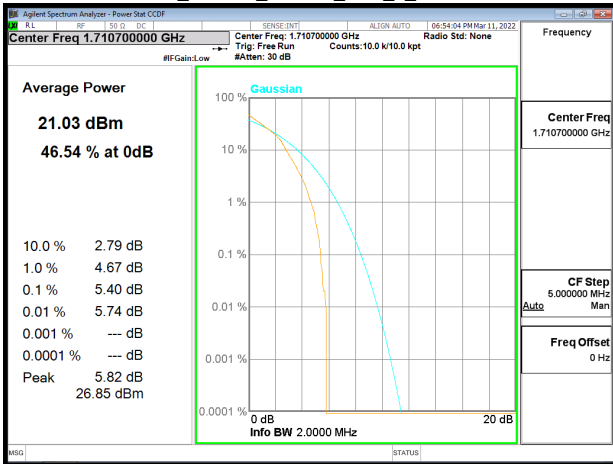


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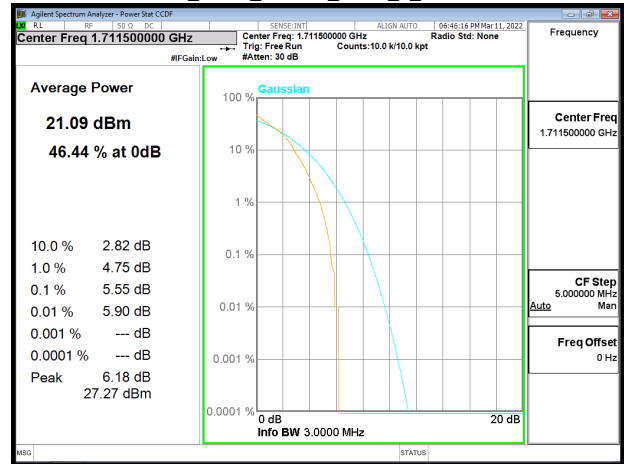
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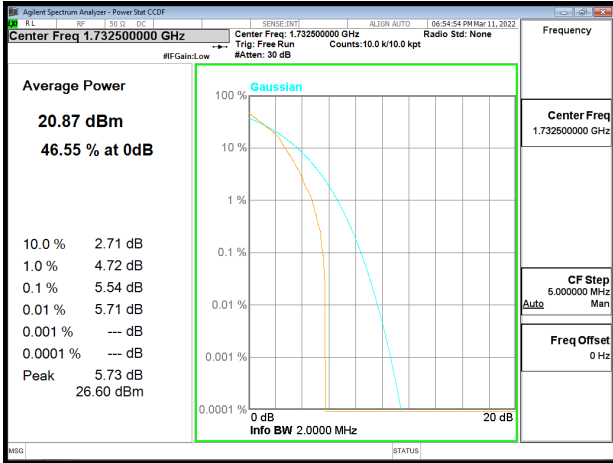
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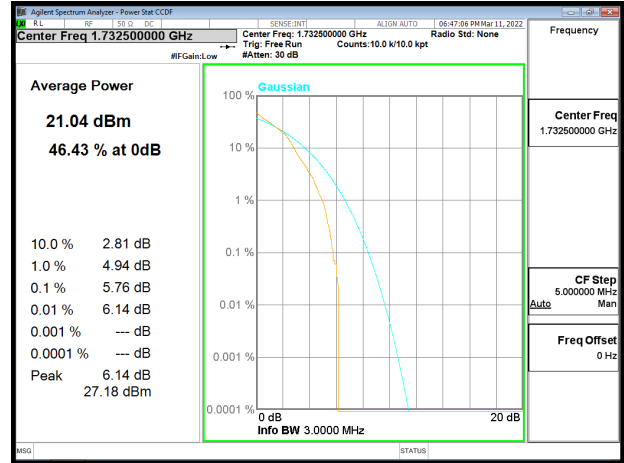
Band4_3MHz_16QAM_RB15_0_CH19957



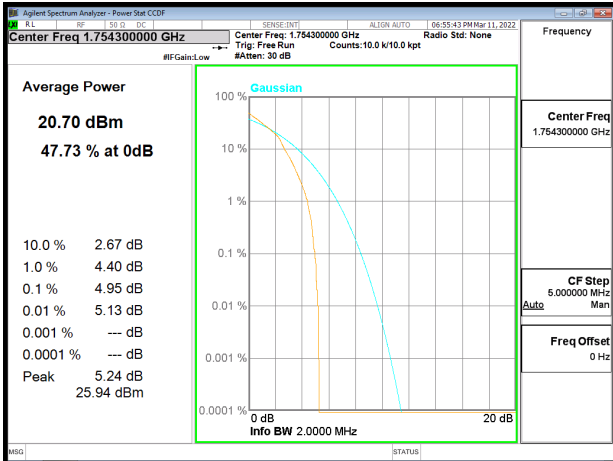
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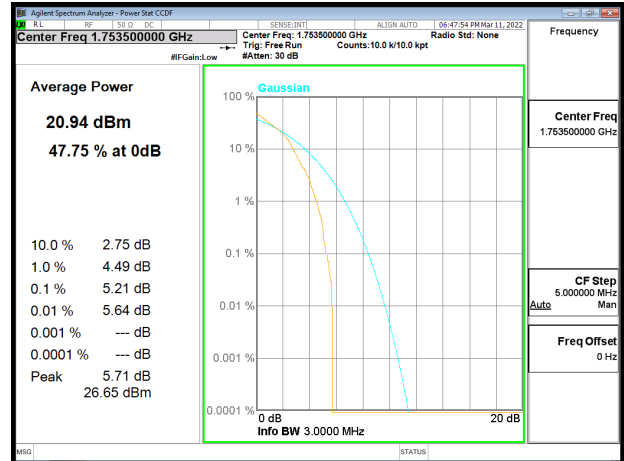
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Band4_1.4MHz_16QAM_RB6_0_CH20393



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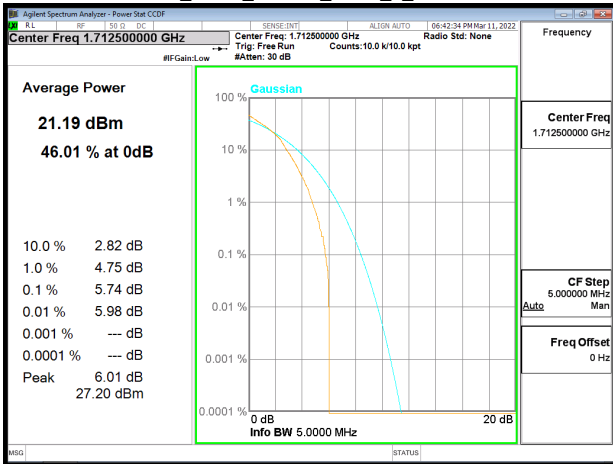


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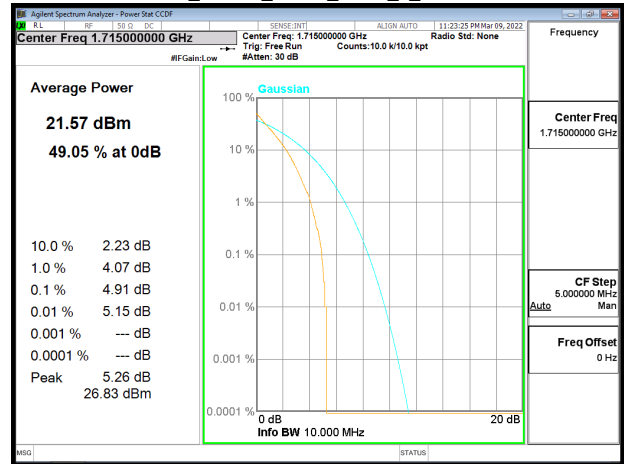
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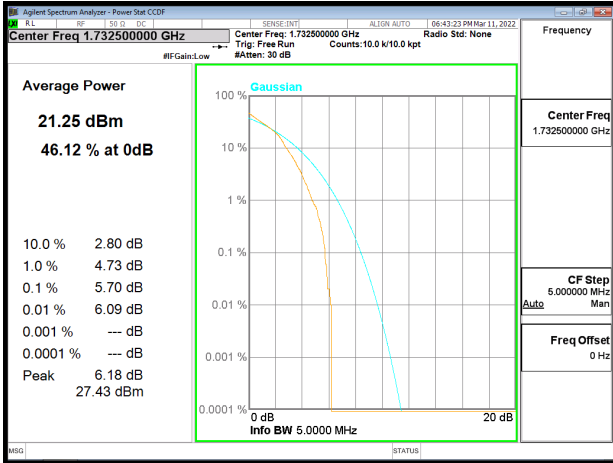
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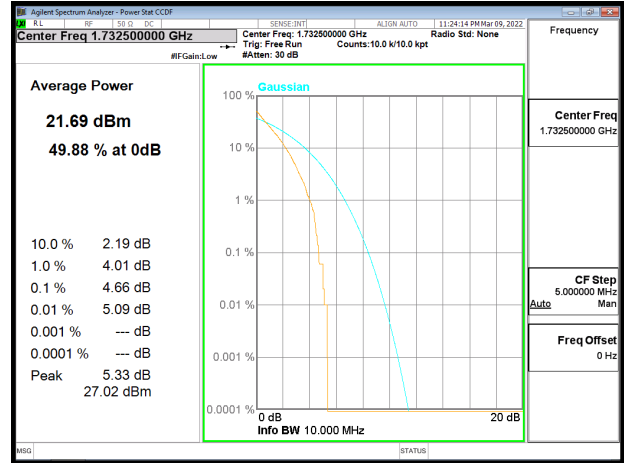
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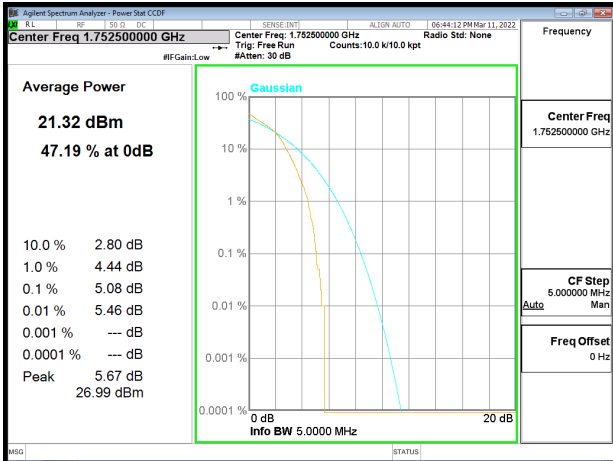
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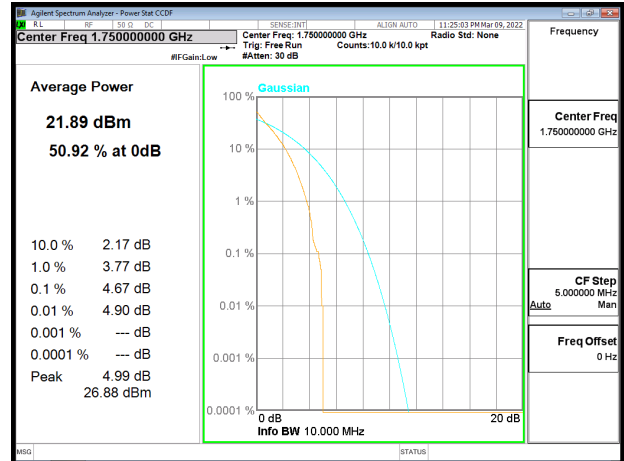
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Band4_5MHz_16QAM_RB25_0_CH20375



Band4_10MHz_QPSK_RB50_0_CH20350

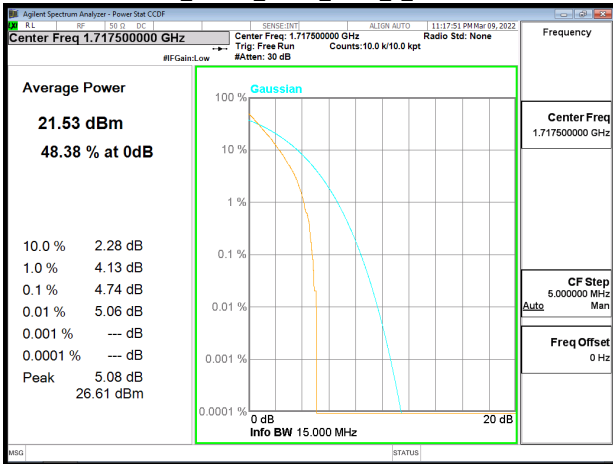


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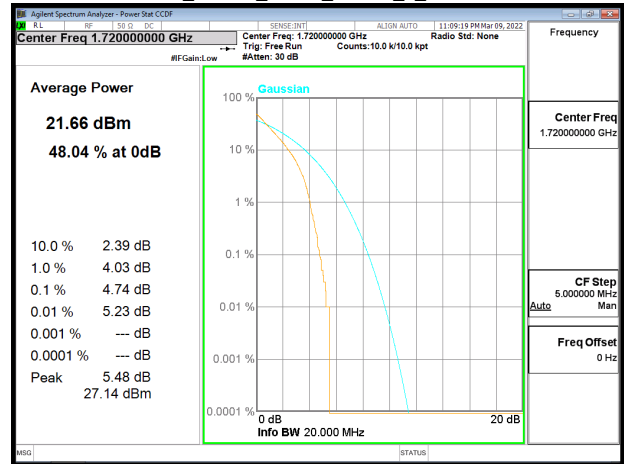
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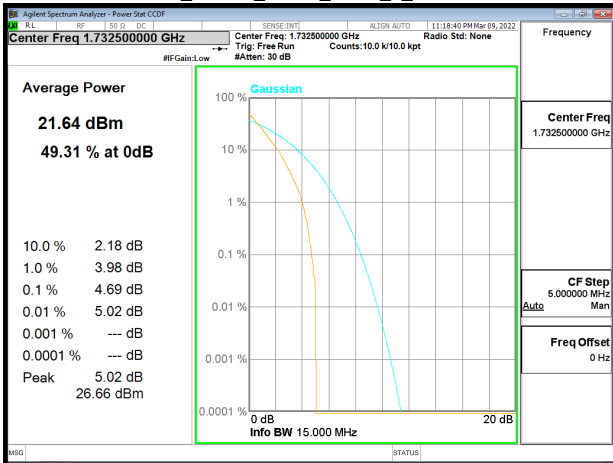
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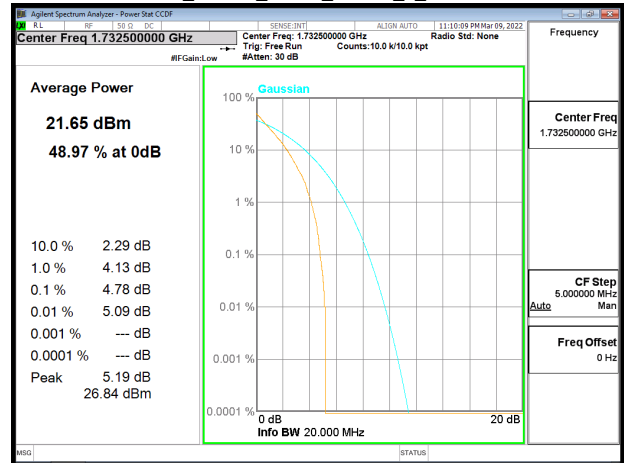
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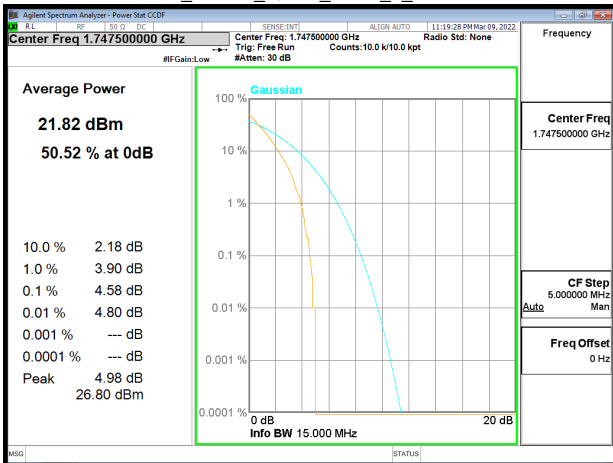
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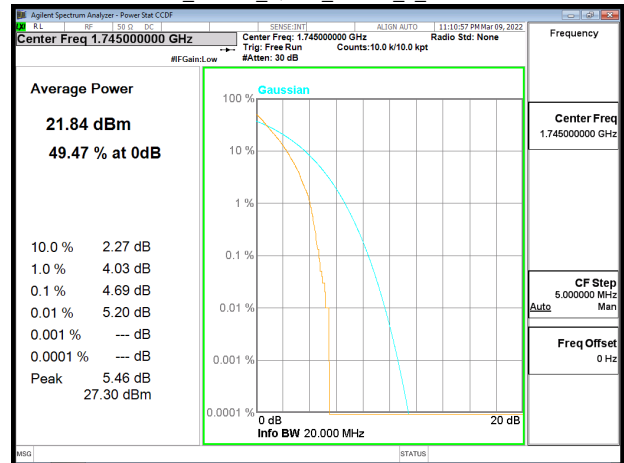
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Band4_15MHz_QPSK_RB75_0_CH20325



Band4_20MHz_QPSK_RB100_0_CH20300

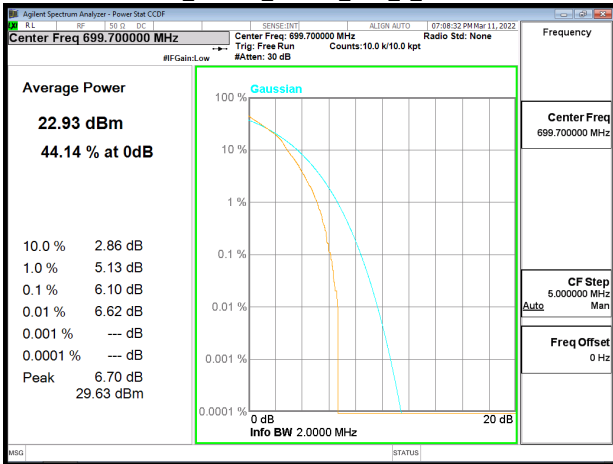


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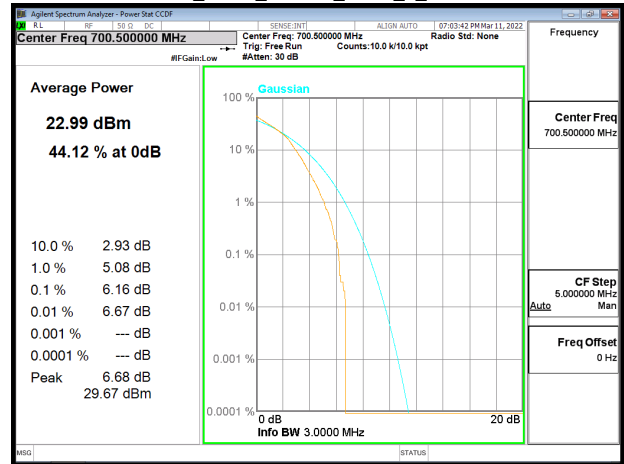
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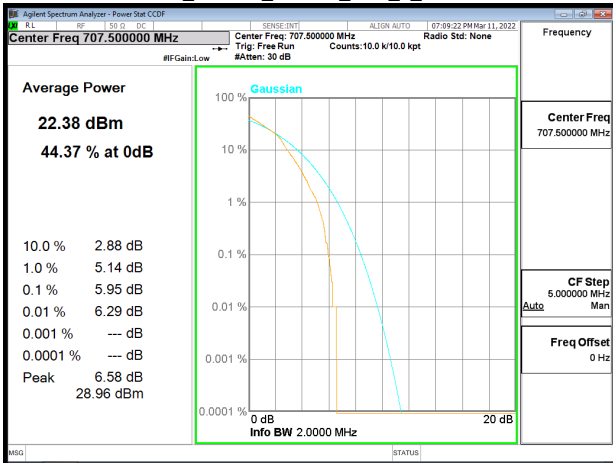
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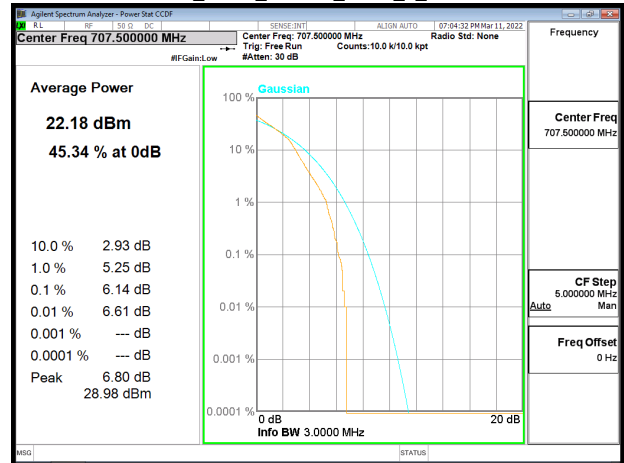
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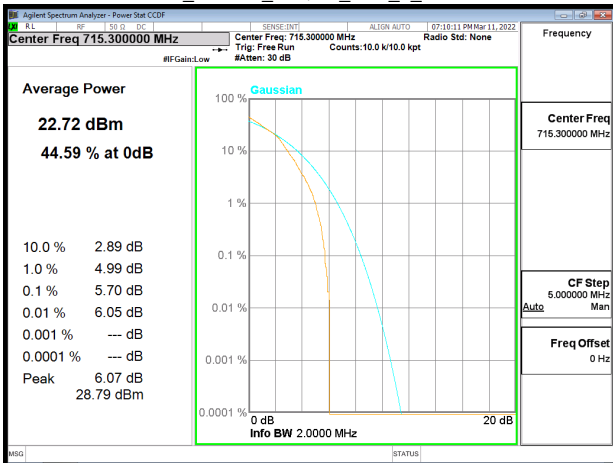
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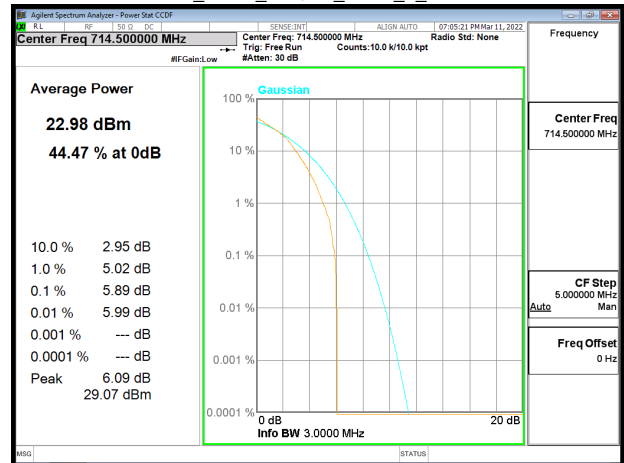
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Band12_1.4MHz_16QAM_RB6_0_CH23173



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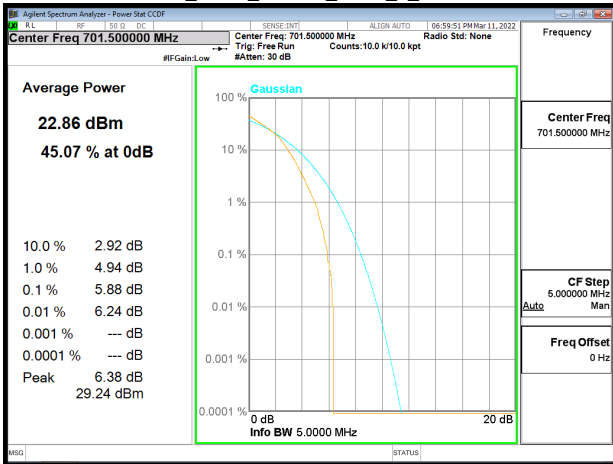


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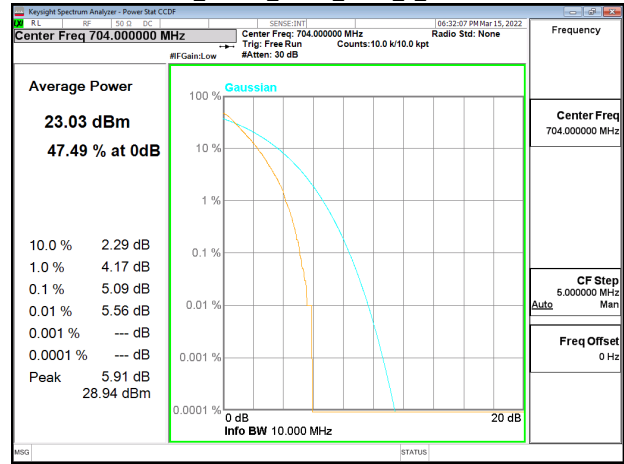
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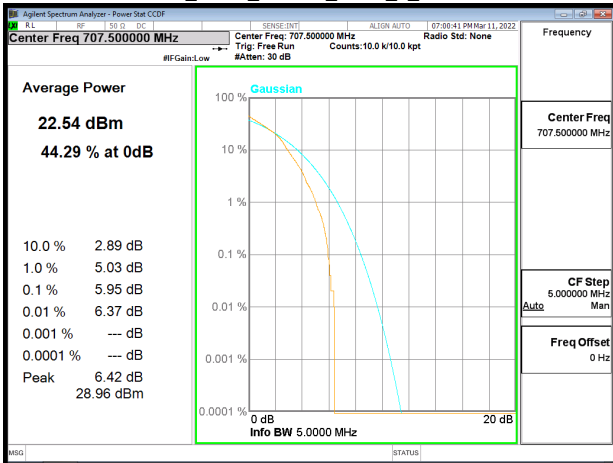
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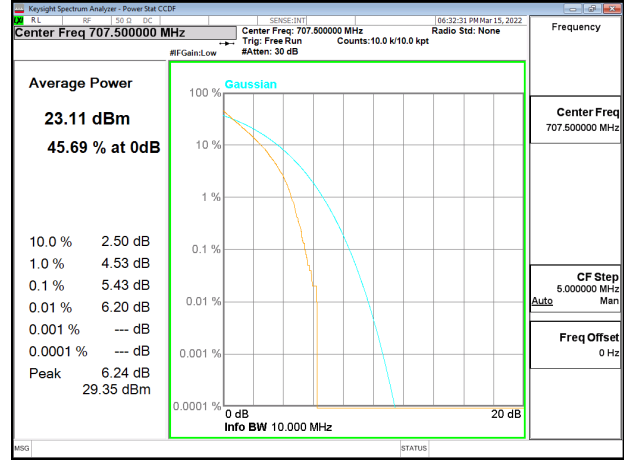
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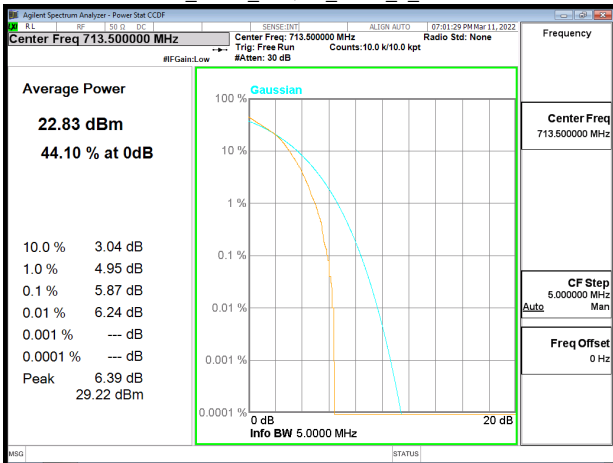
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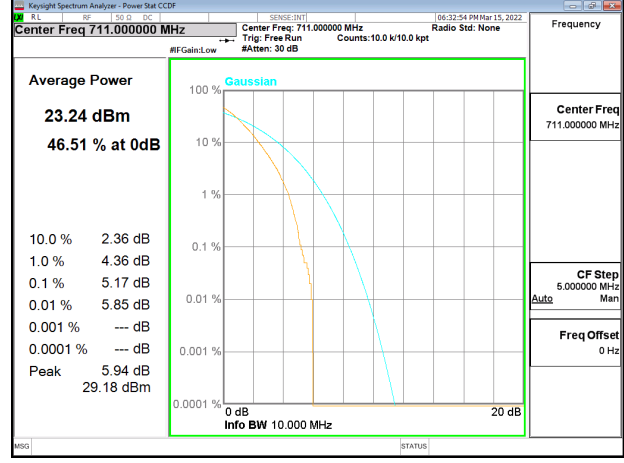
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Band12_5MHz_16QAM_RB25_0_CH23155



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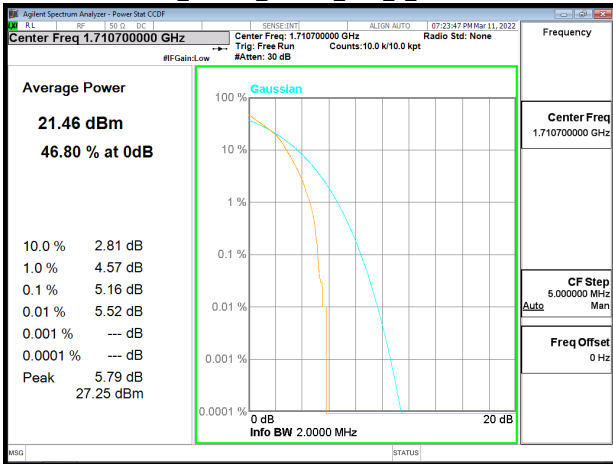


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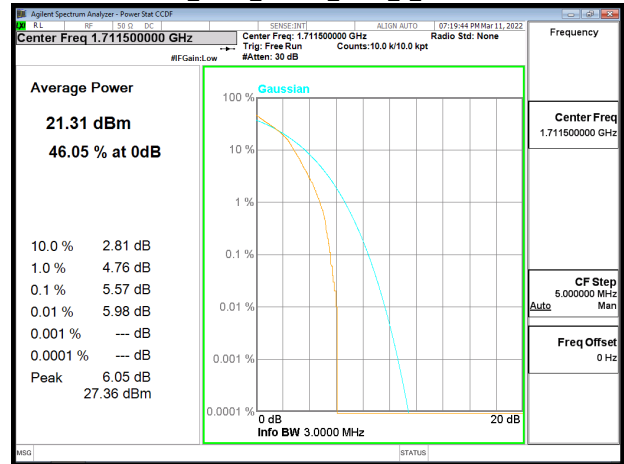
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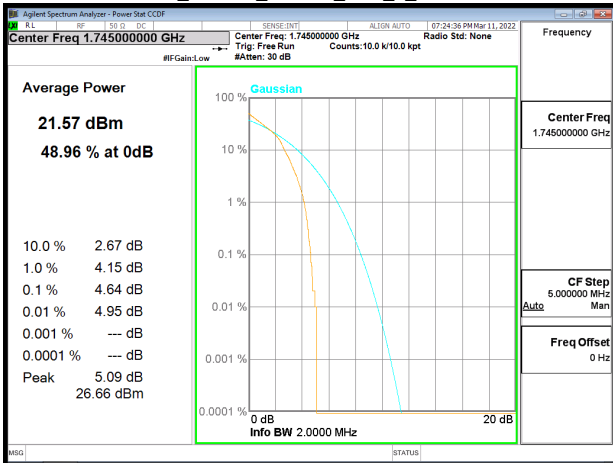
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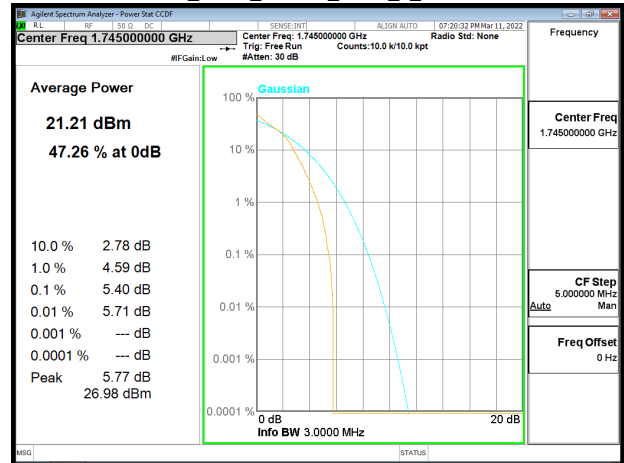
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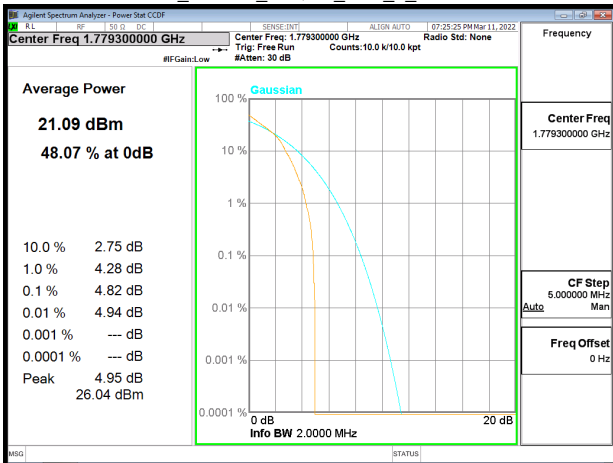
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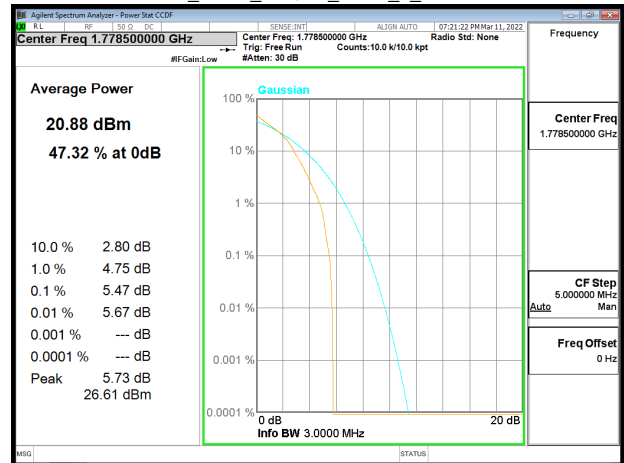
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Band66_1.4MHz_16QAM_RB6_0_CH132665



Band66_3MHz_16QAM_RB15_0_CH132657

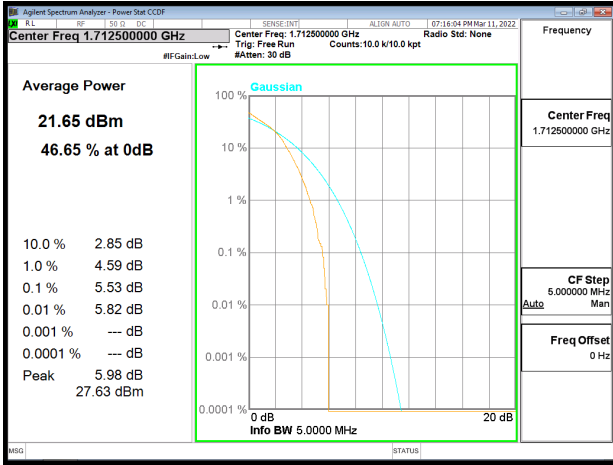


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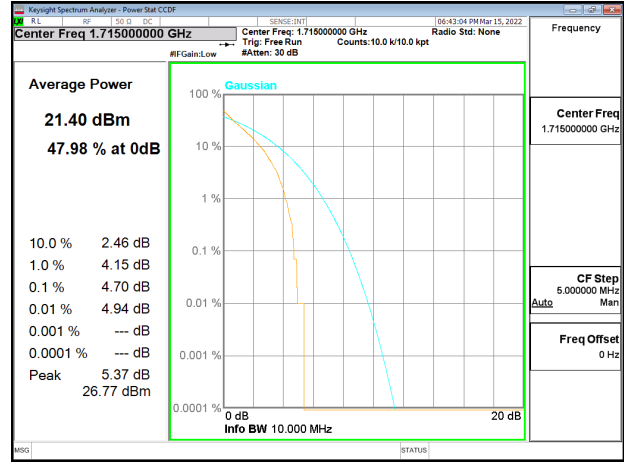
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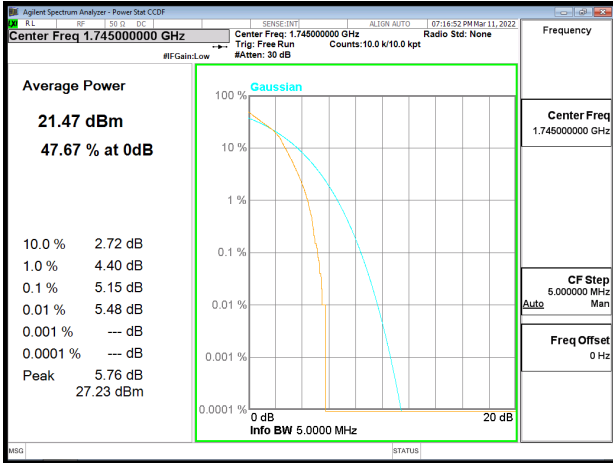
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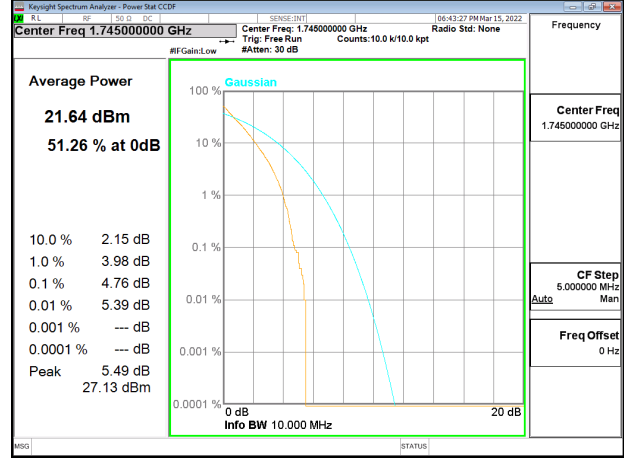
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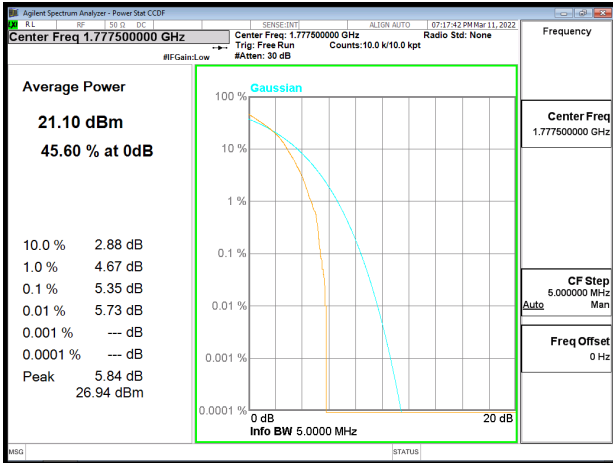
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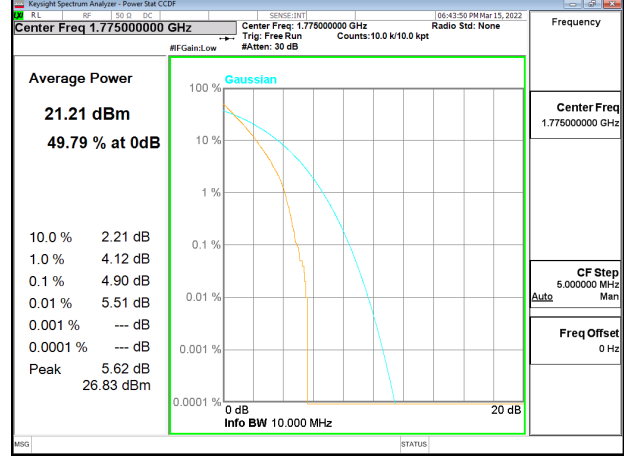
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Band66_5MHz_16QAM_RB25_0_CH132647



Band66_10MHz_QPSK_RB50_0_CH132622

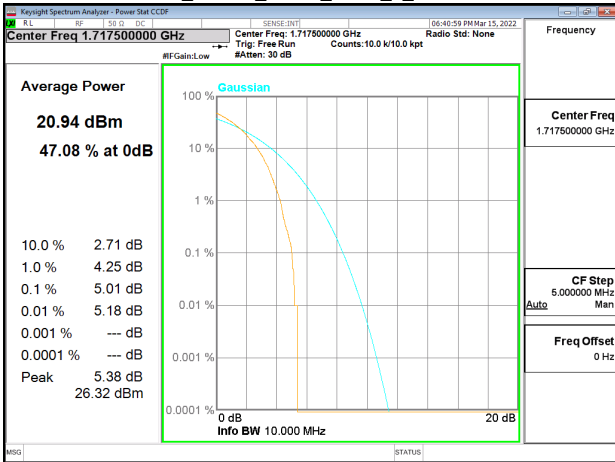


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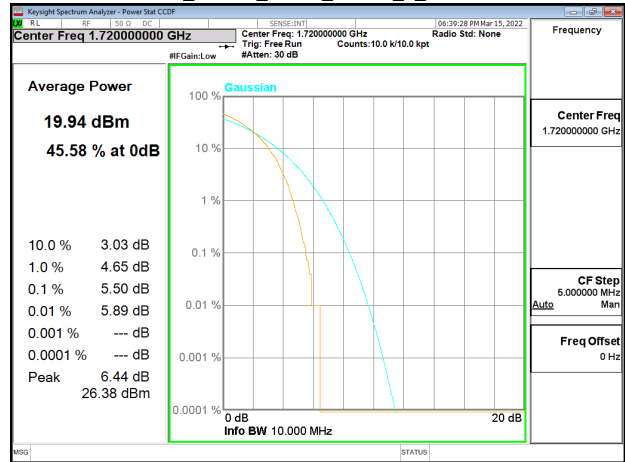
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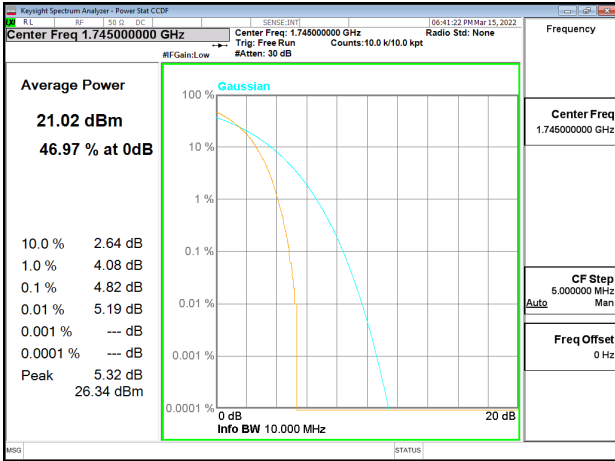
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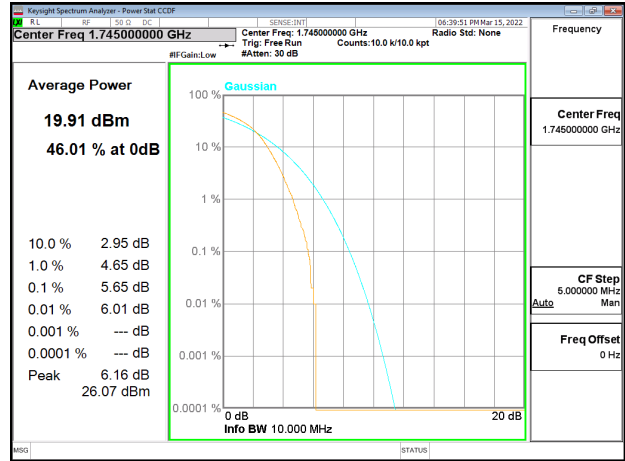
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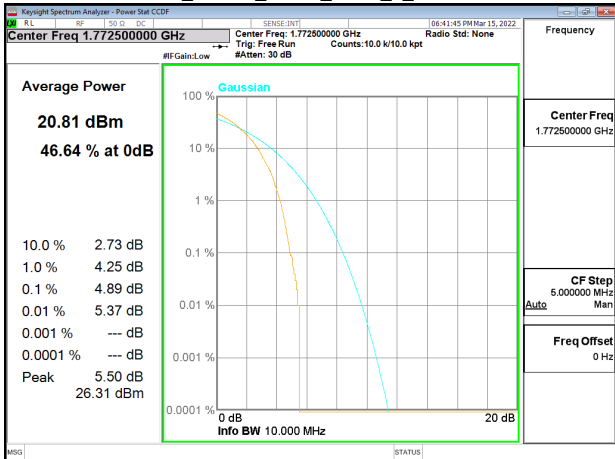
Band66_15MHz_QPSK_RB75_0_CH132322



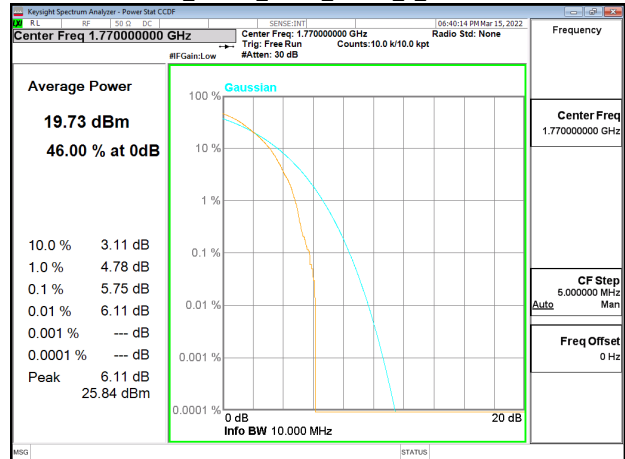
Band66_20MHz_QPSK_RB100_0_CH132322



Band66_15MHz_QPSK_RB75_0_CH132597



Band66_20MHz_QPSK_RB100_0_CH132572



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~ End of Report ~

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