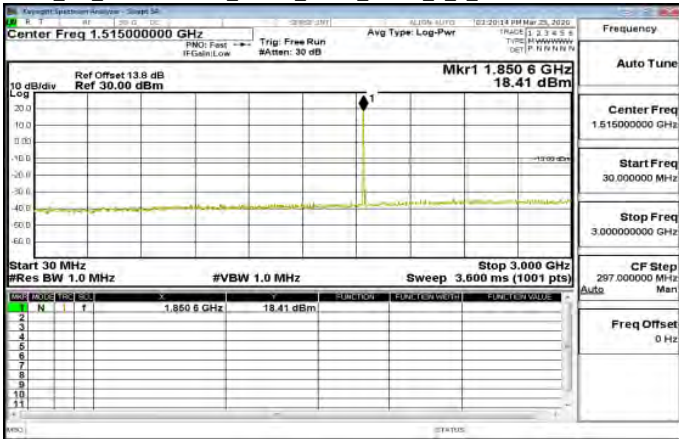
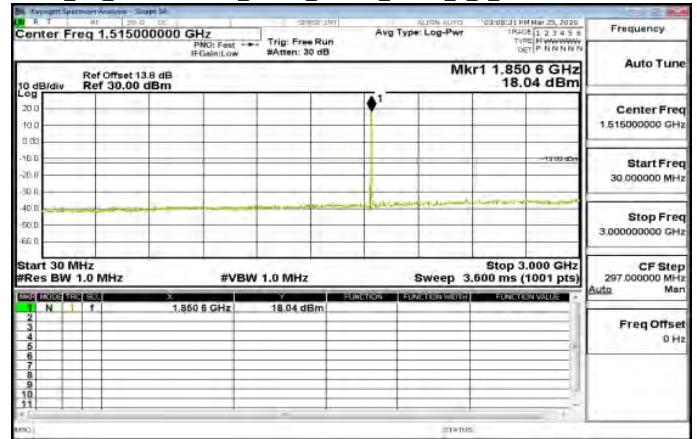


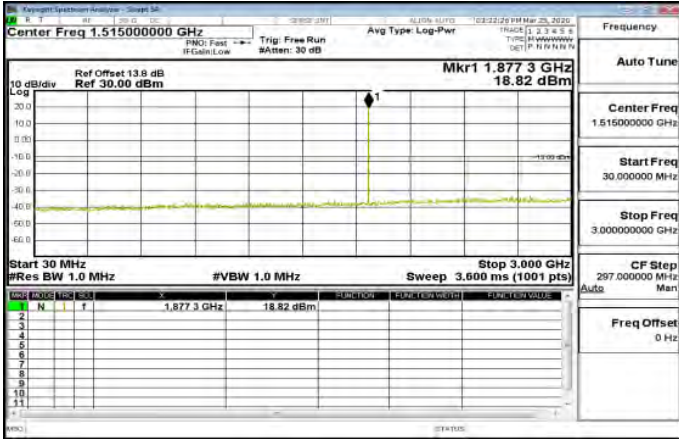
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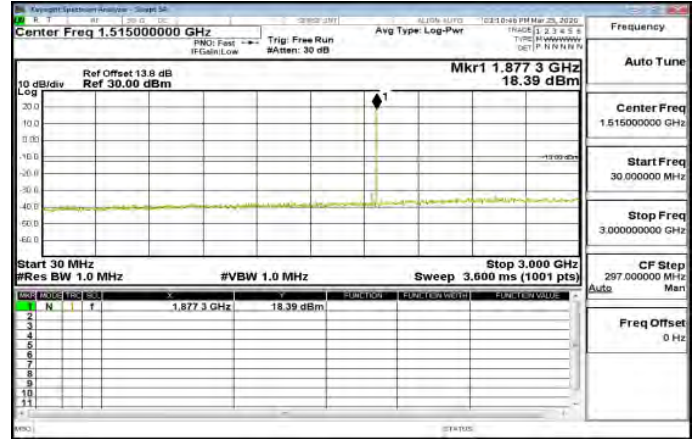
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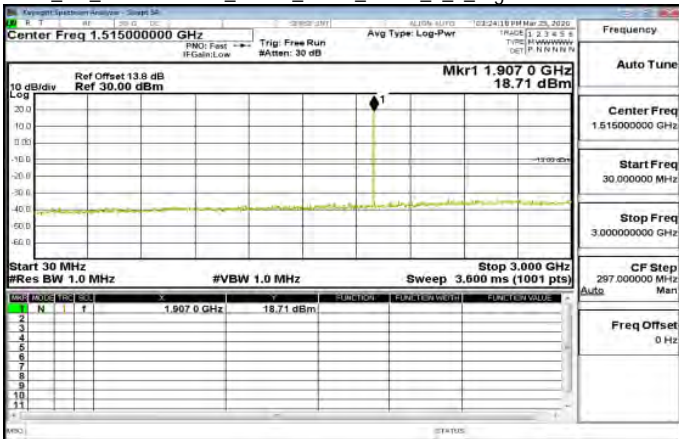
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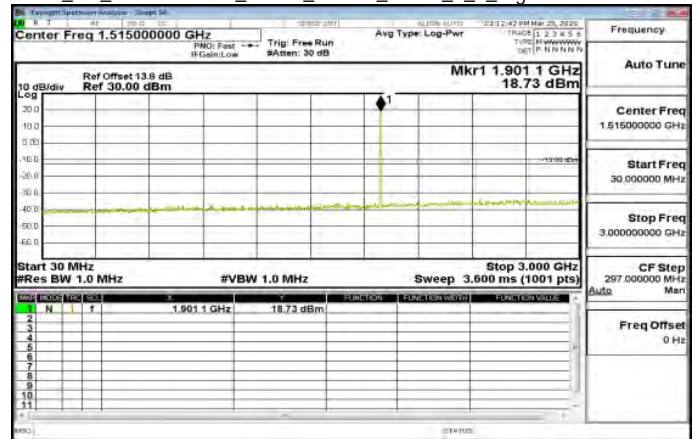
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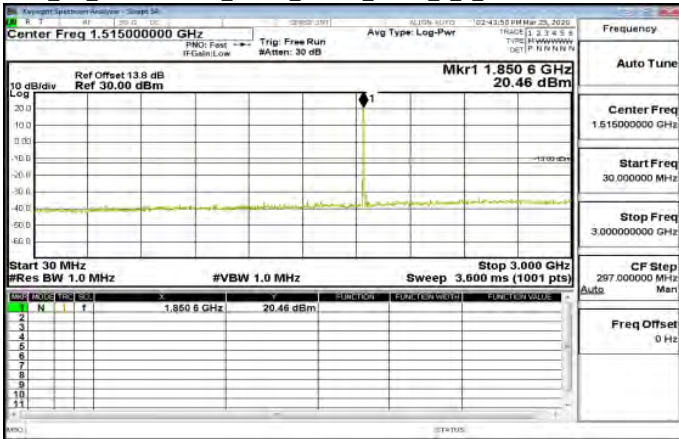
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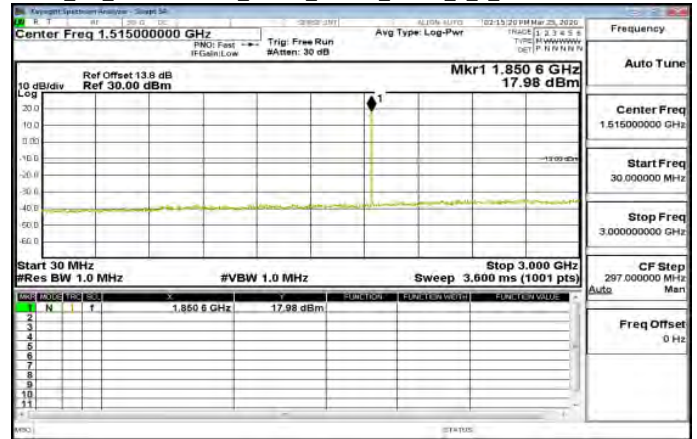
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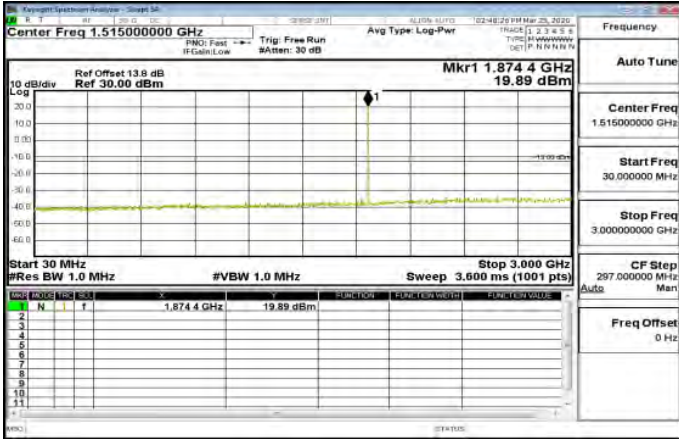
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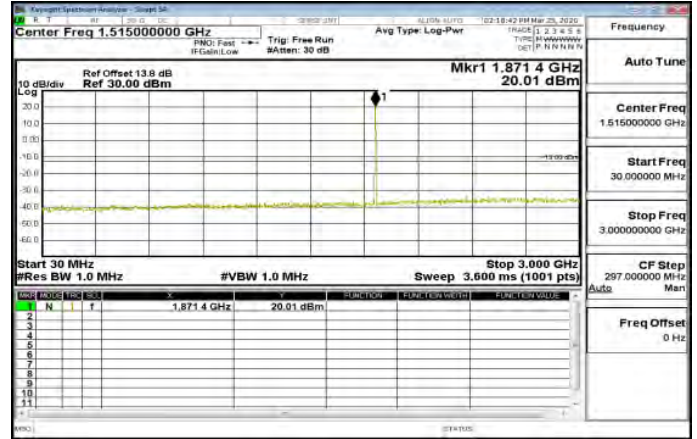
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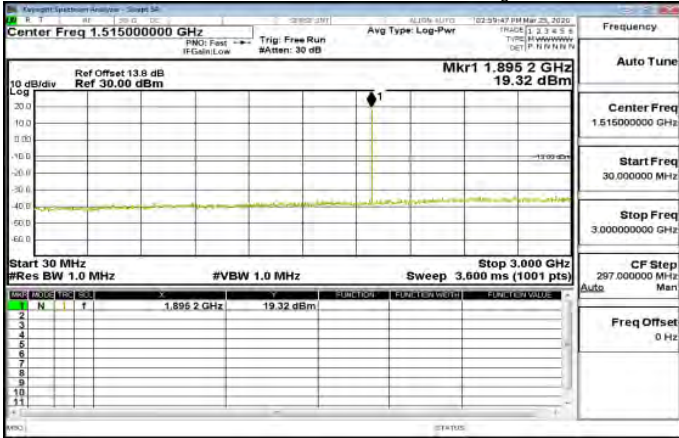
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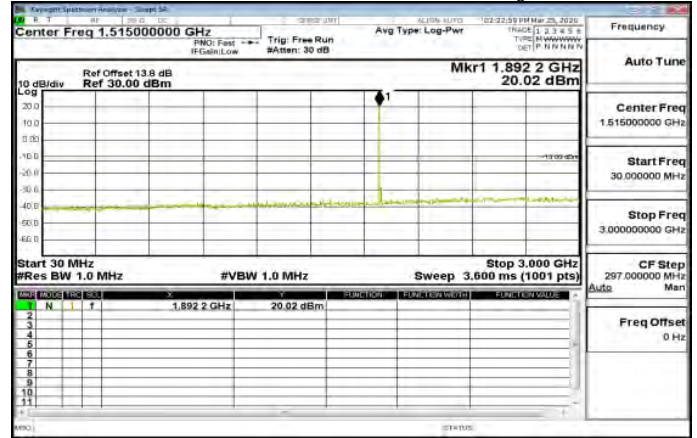
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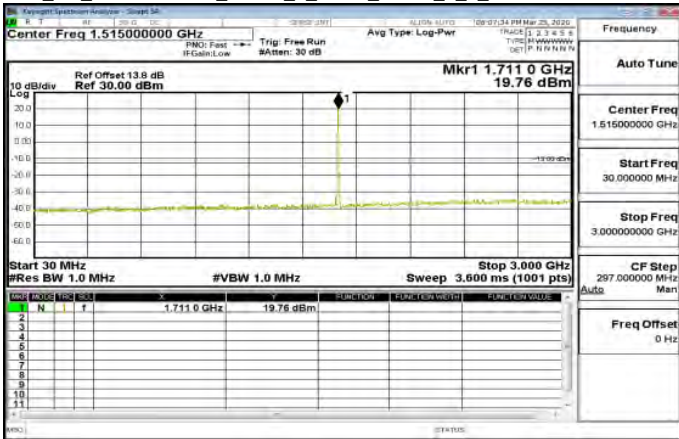
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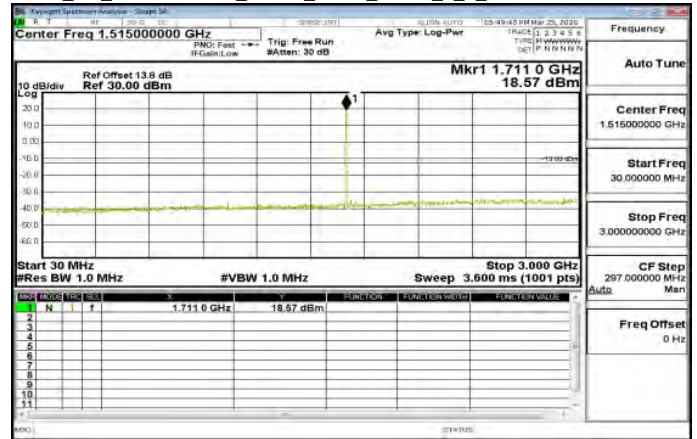
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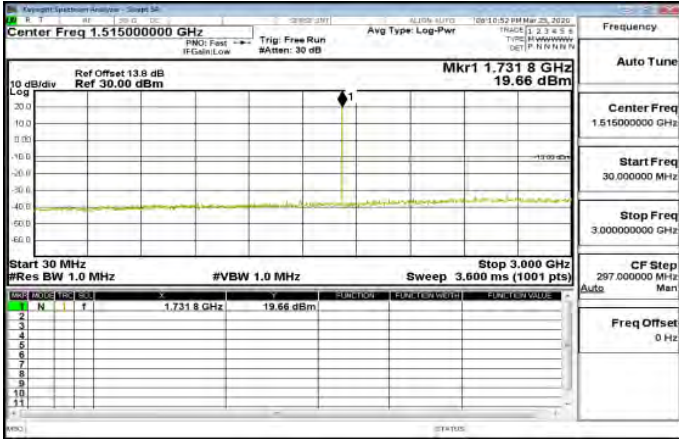
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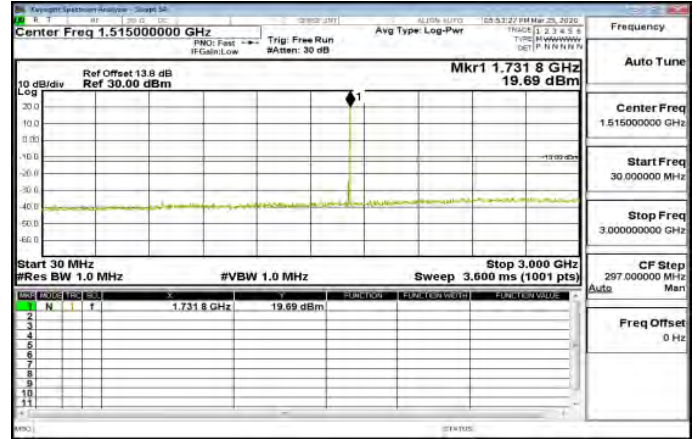
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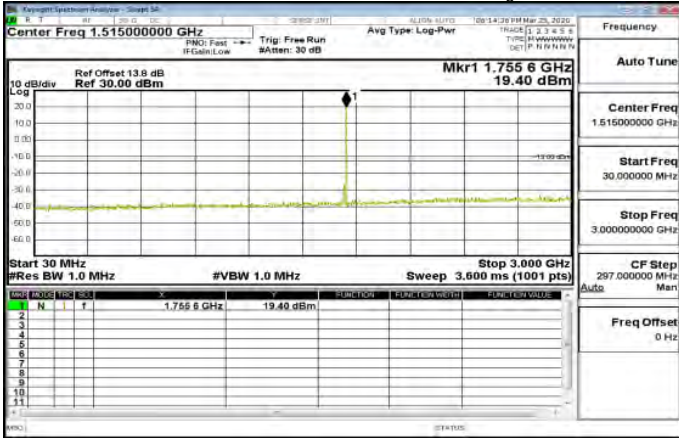
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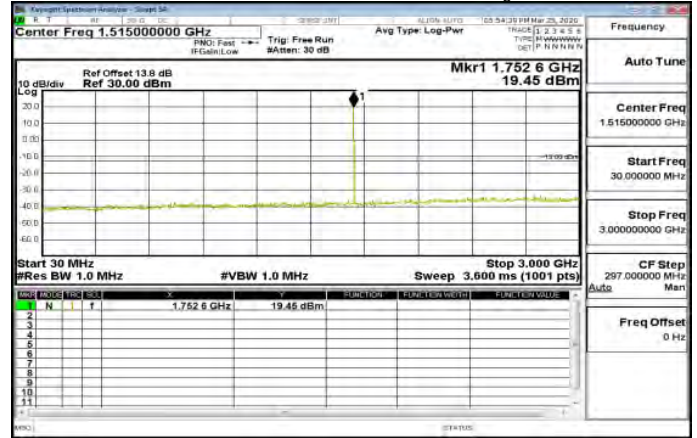
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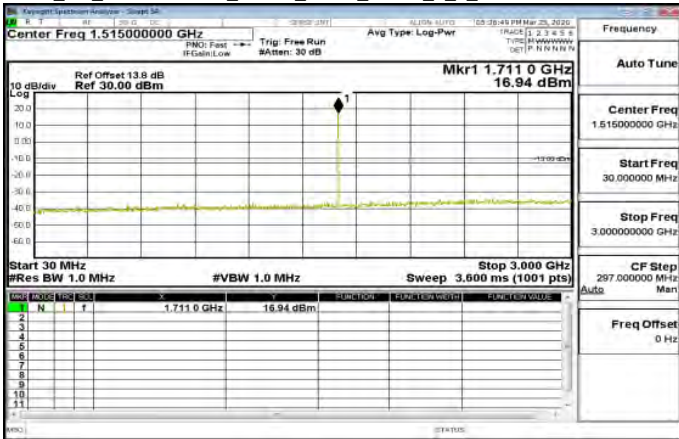
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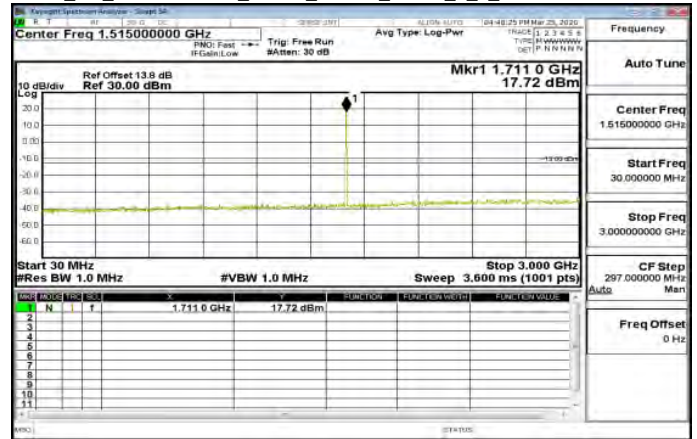
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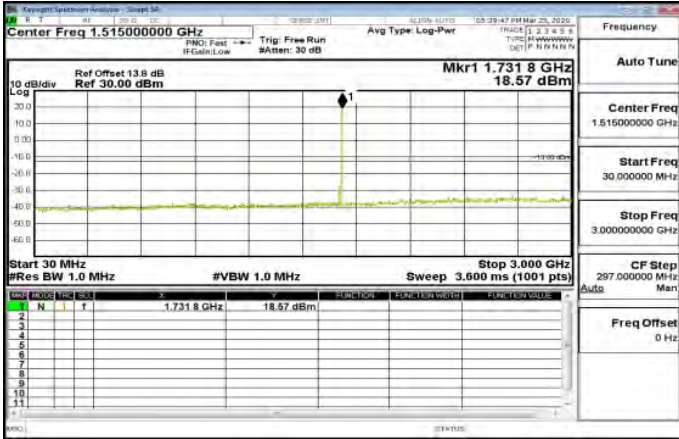
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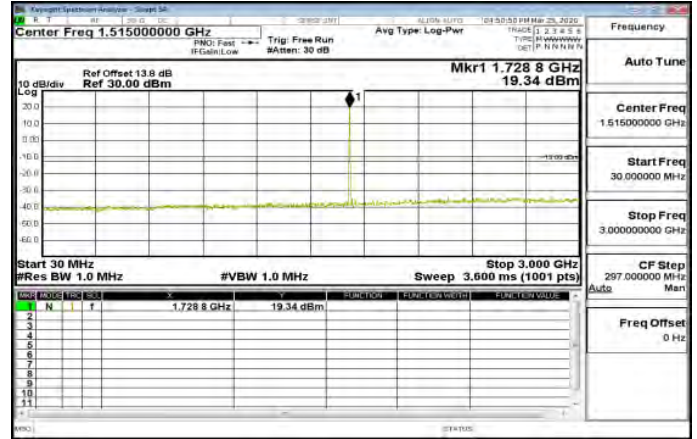
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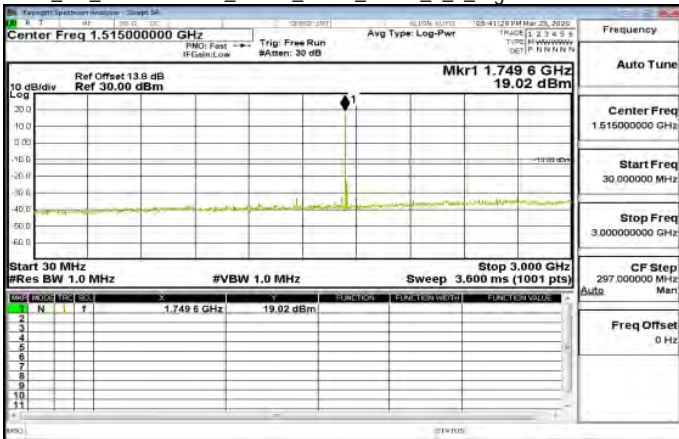
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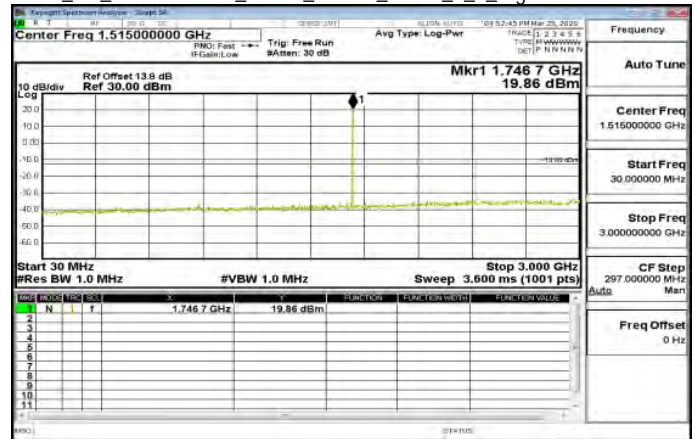
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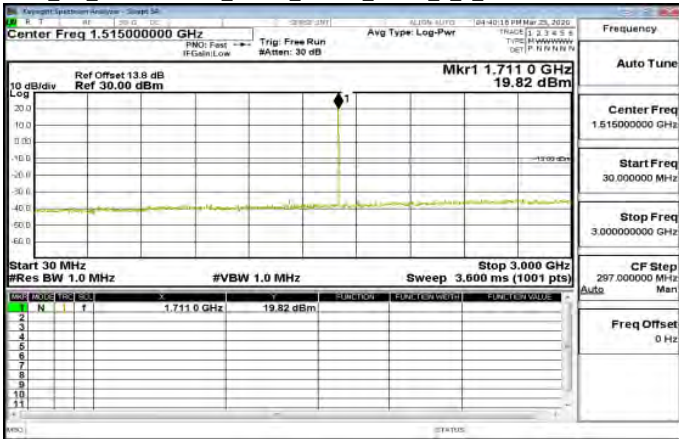


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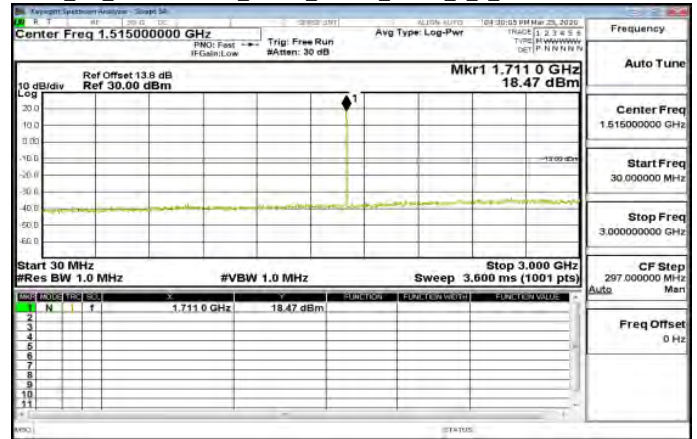
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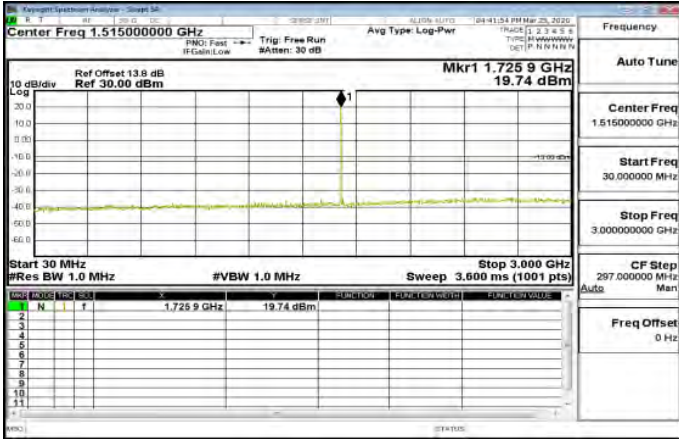
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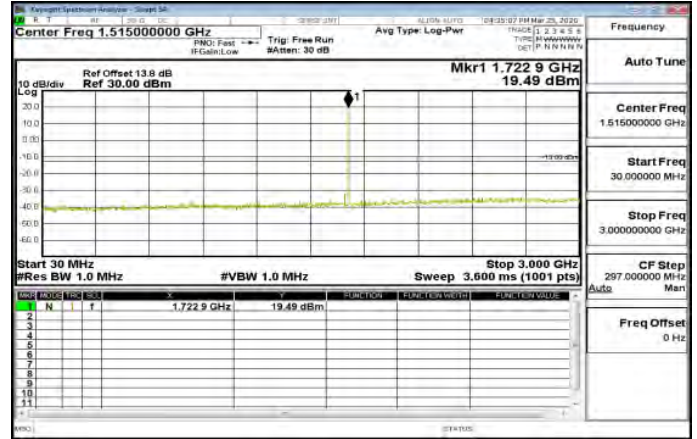
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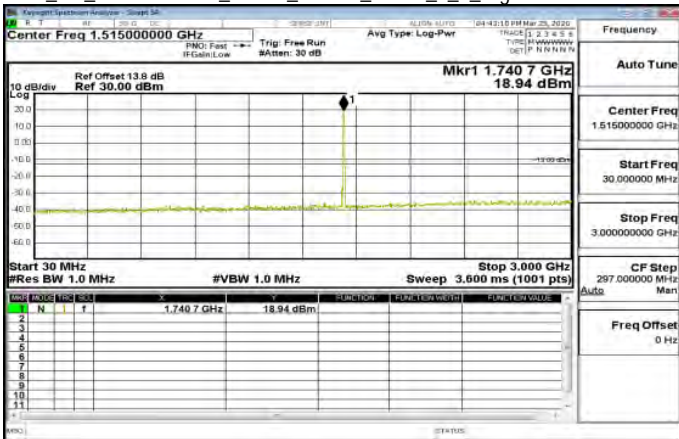
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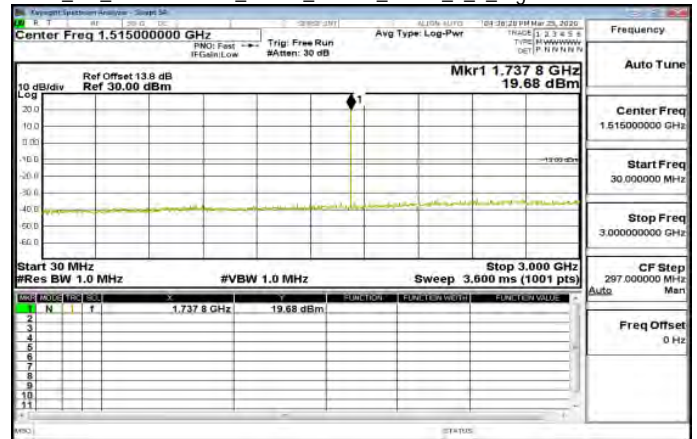
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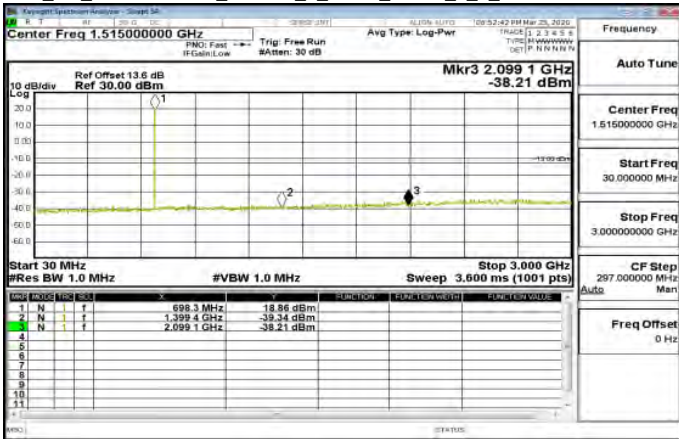
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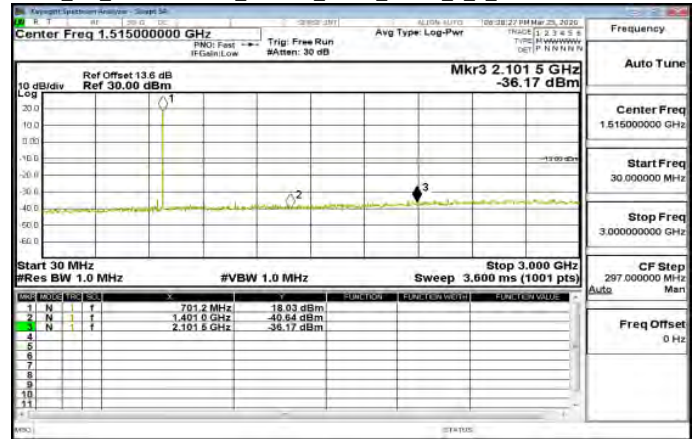
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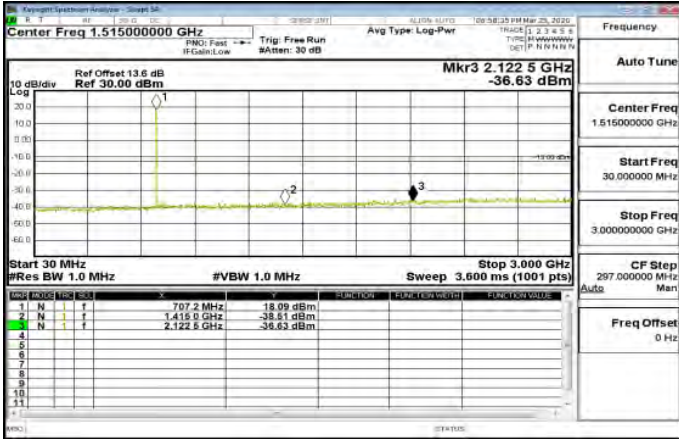
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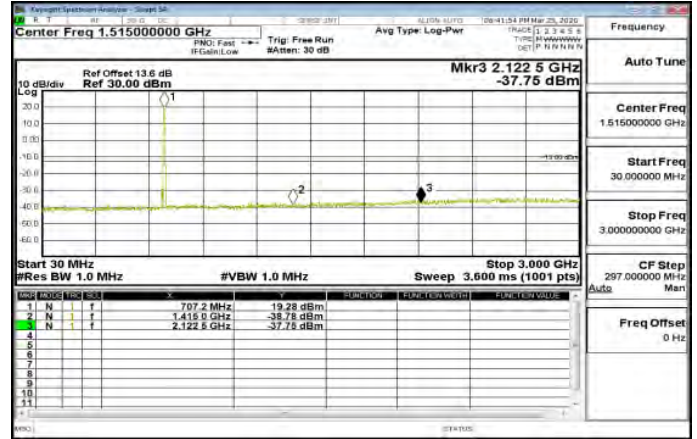
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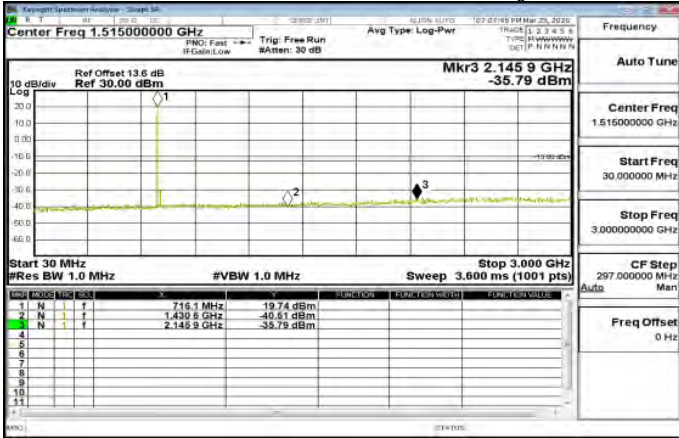
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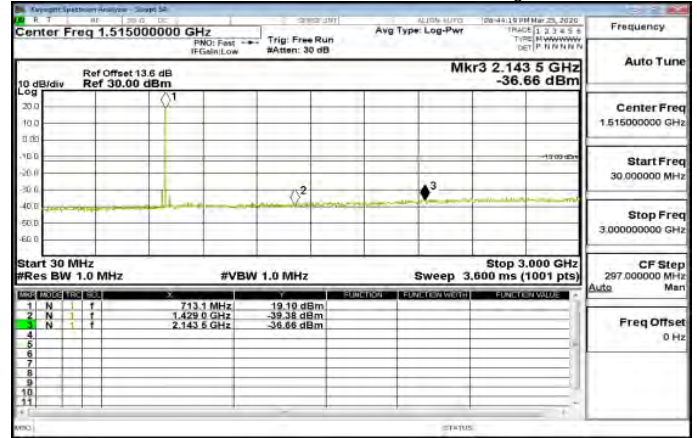
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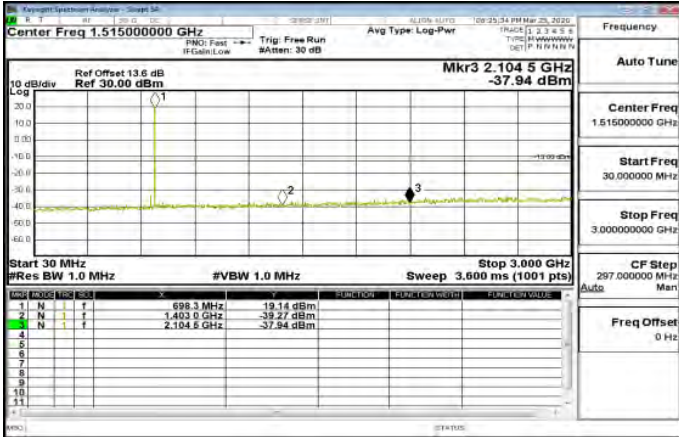
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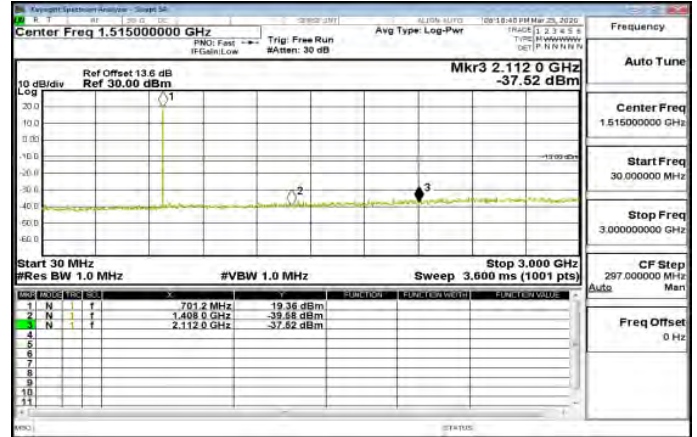
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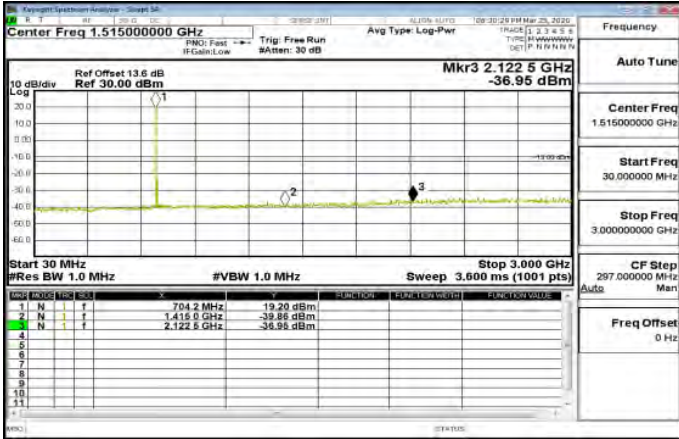
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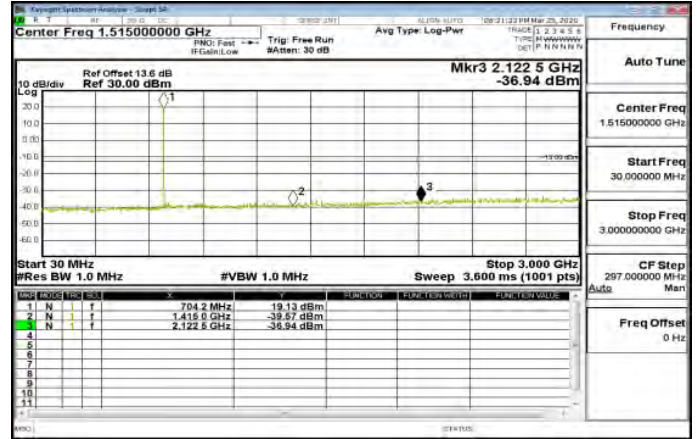
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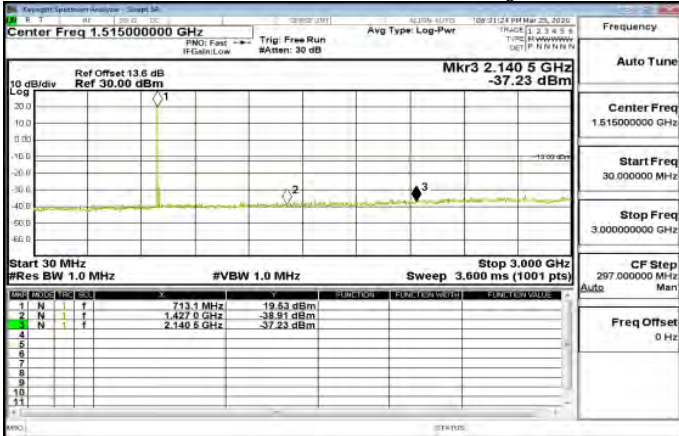
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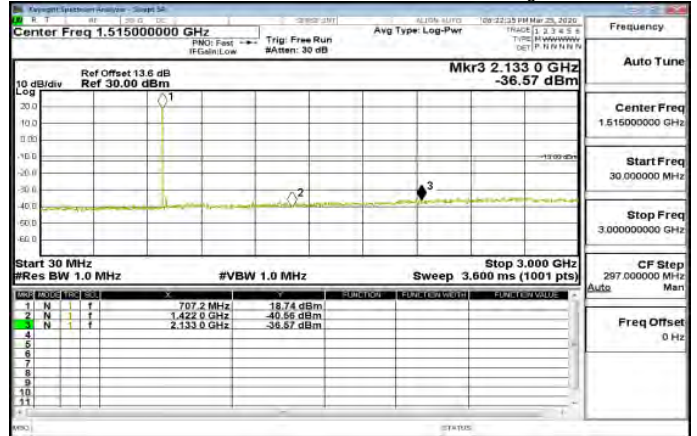
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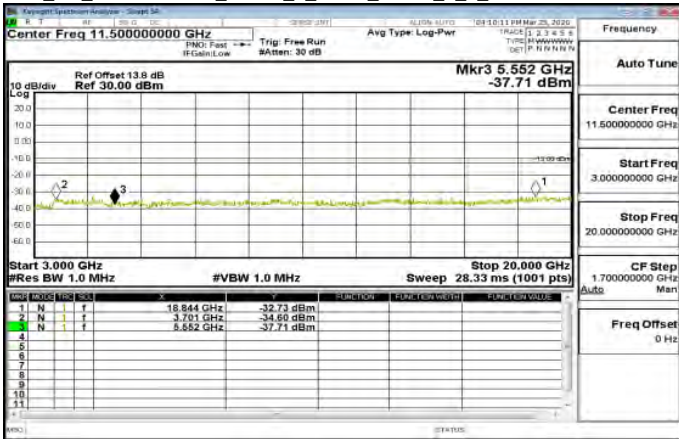
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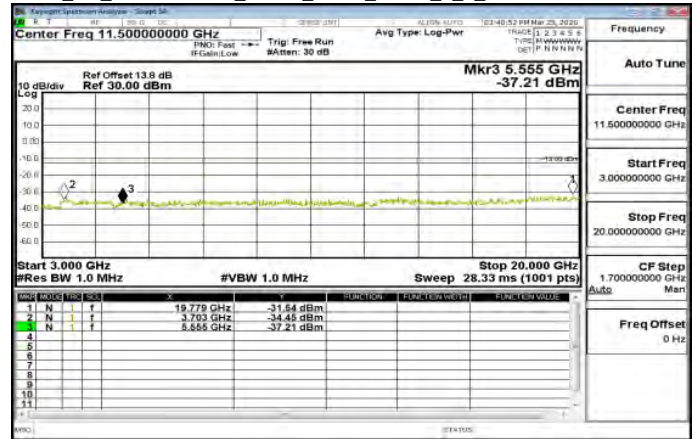
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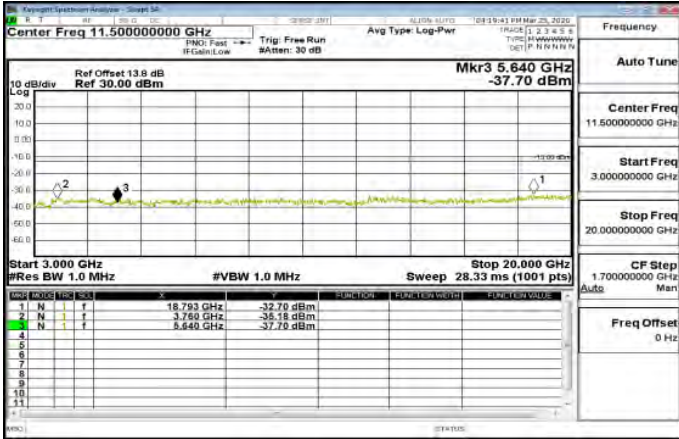
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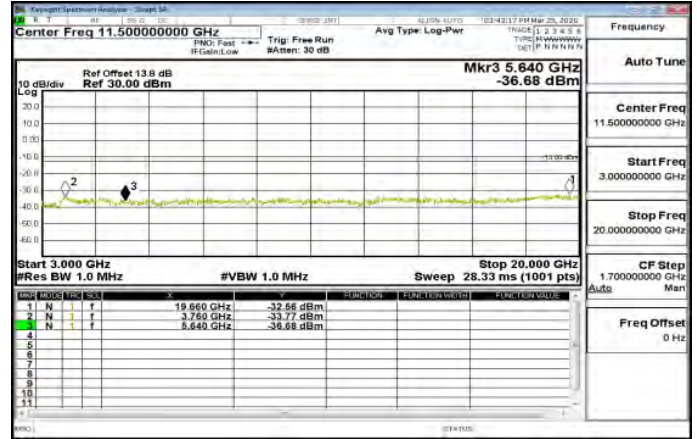
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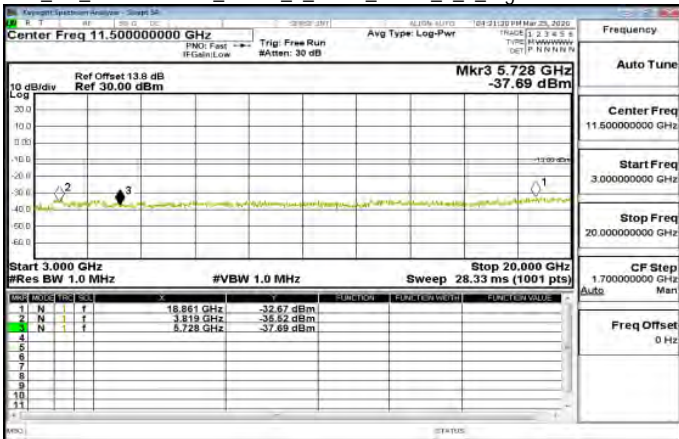
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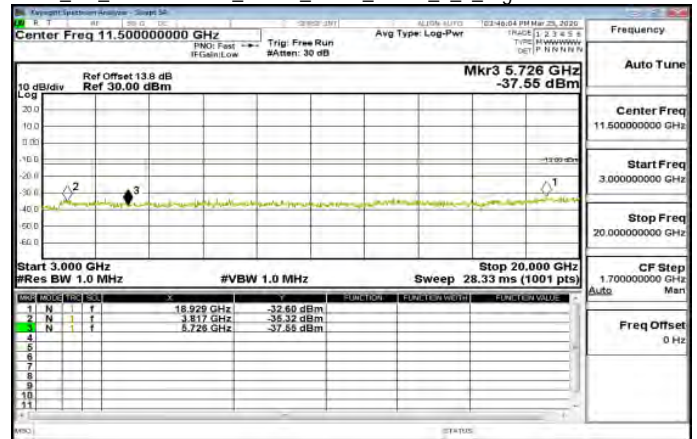
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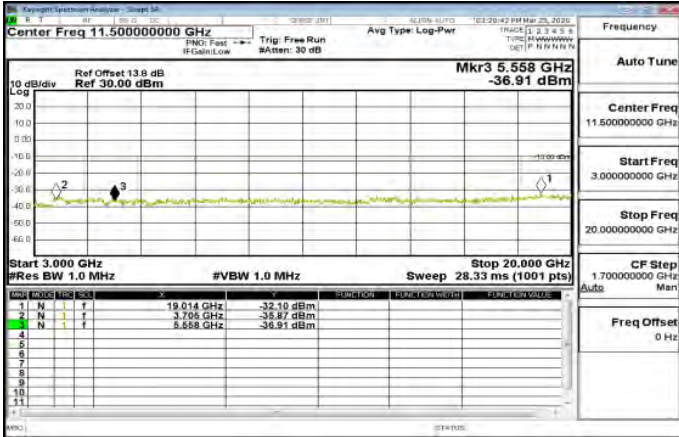
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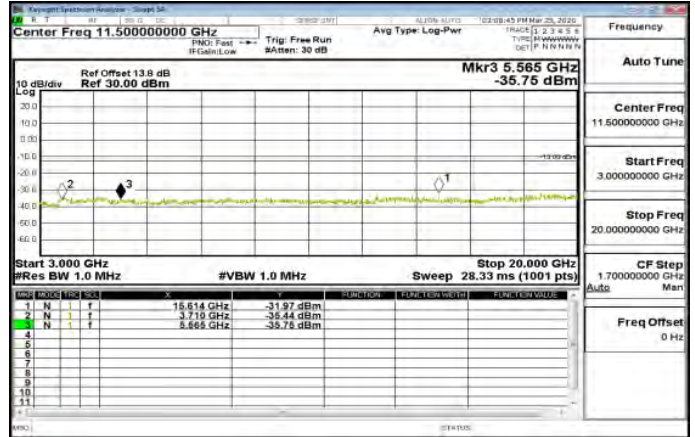
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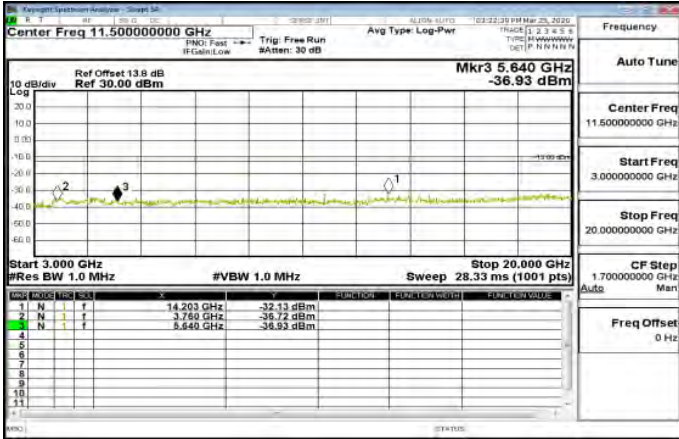
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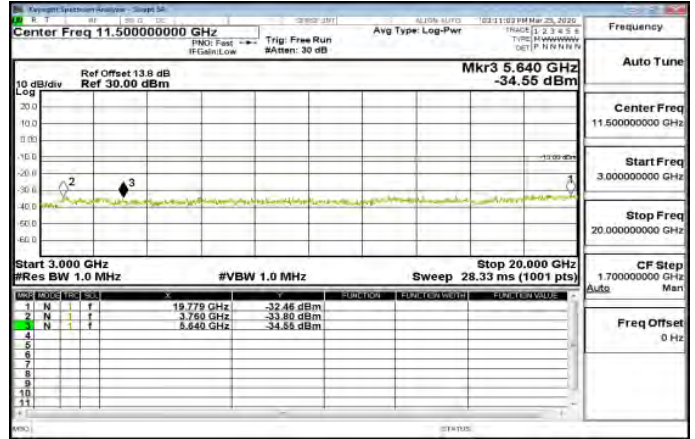
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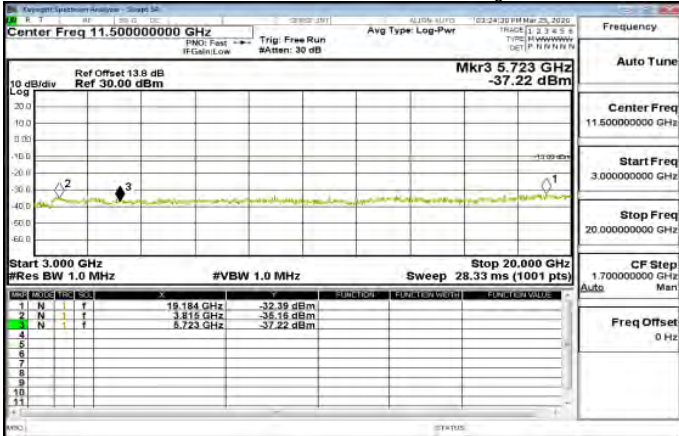
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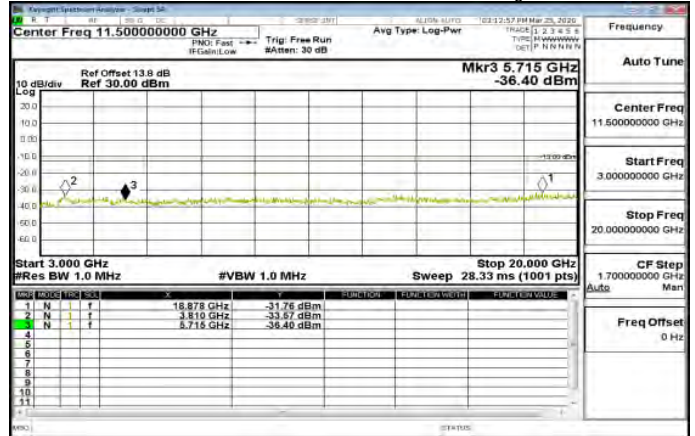
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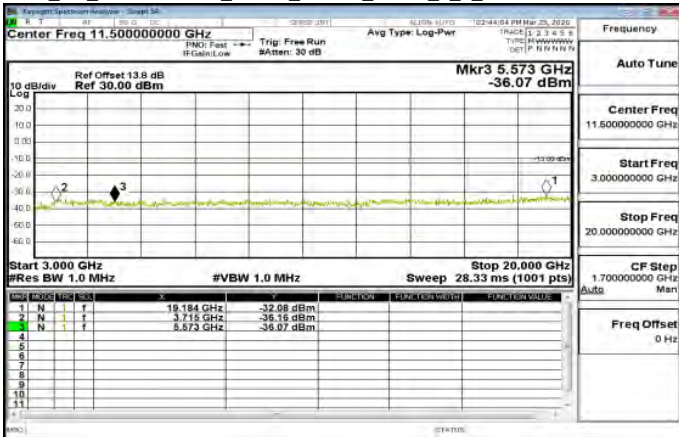
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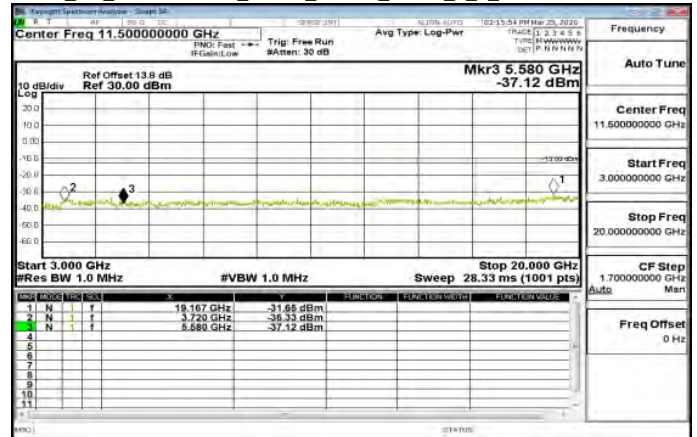
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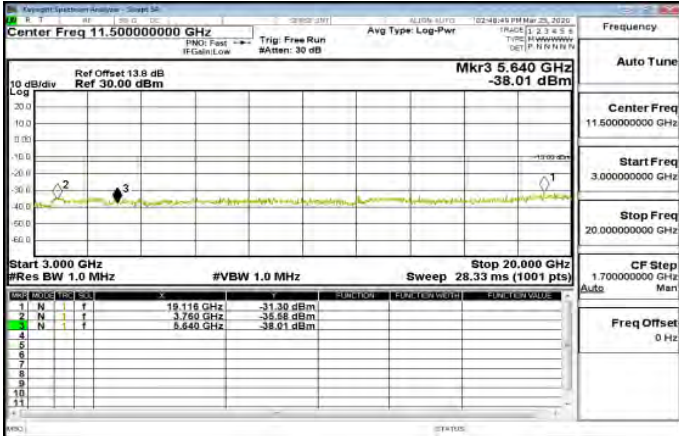
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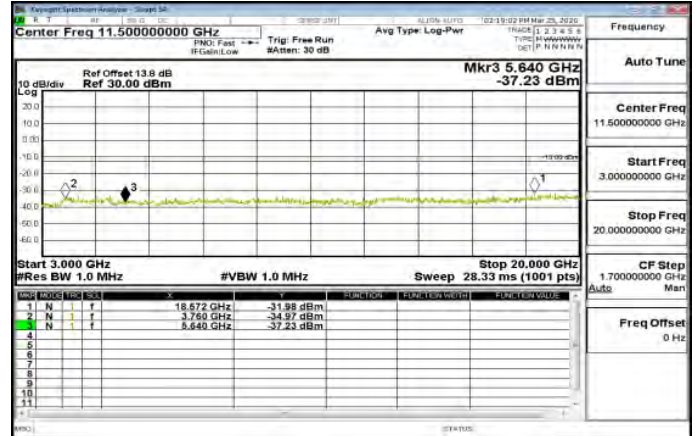
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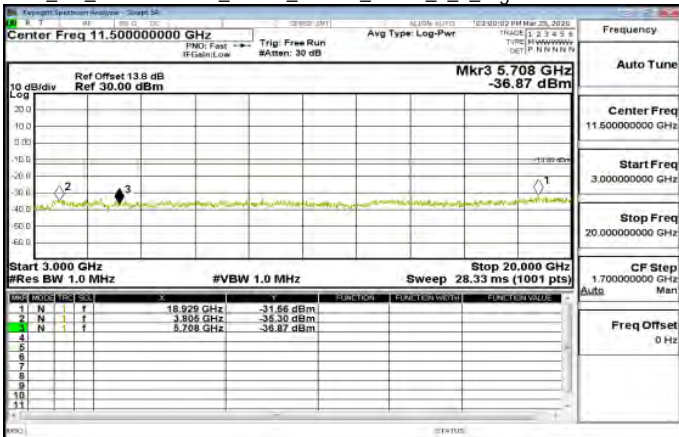
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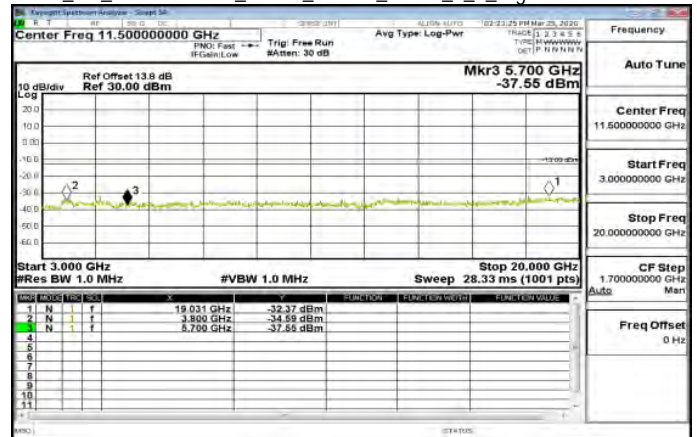
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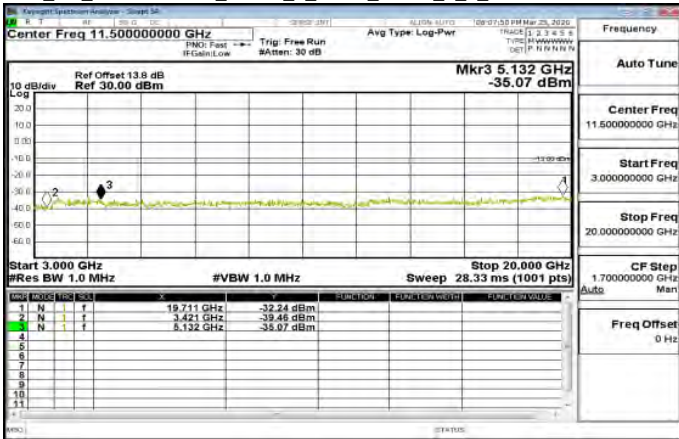
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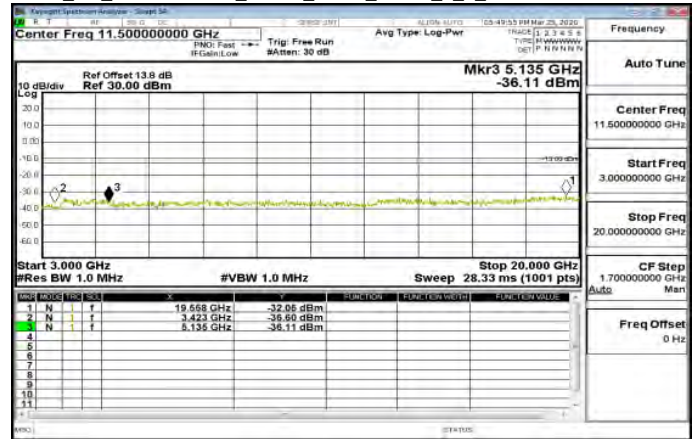
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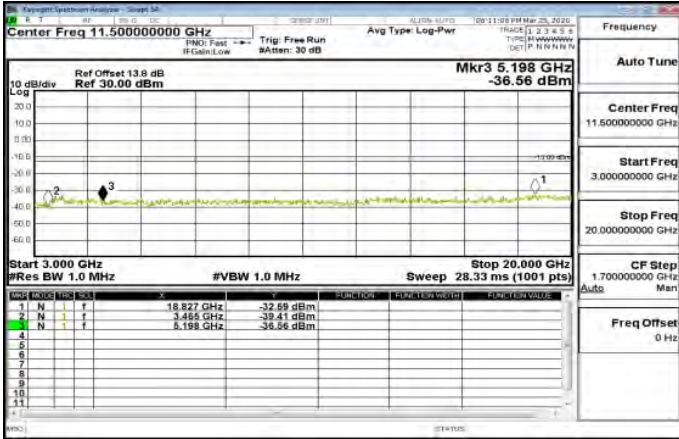
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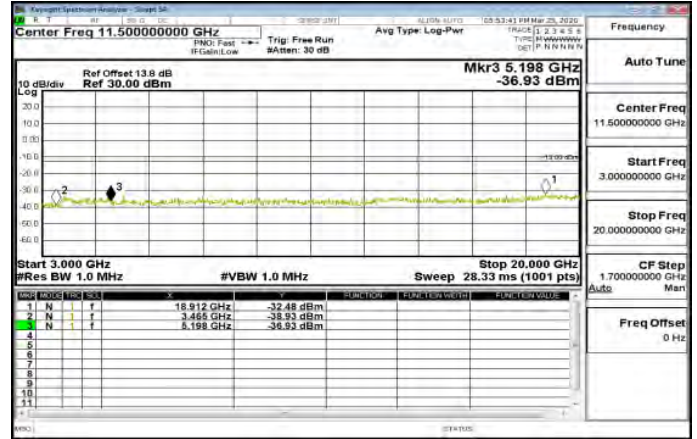
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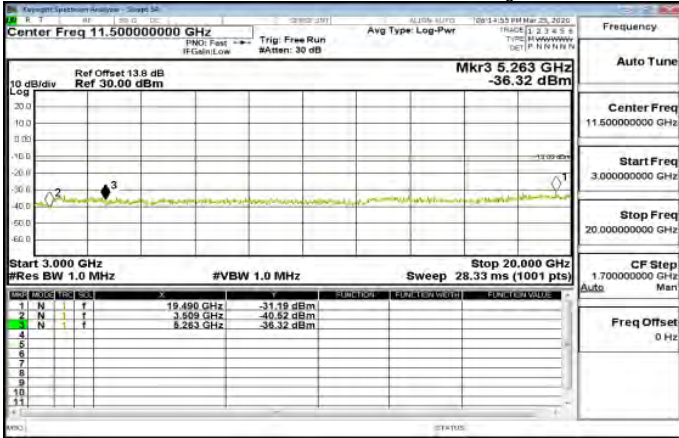
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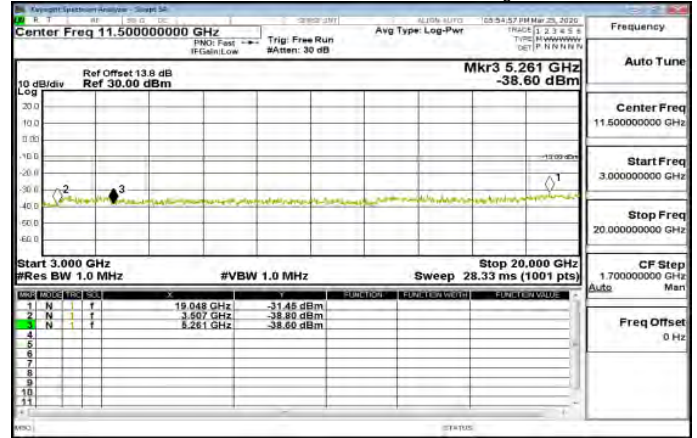
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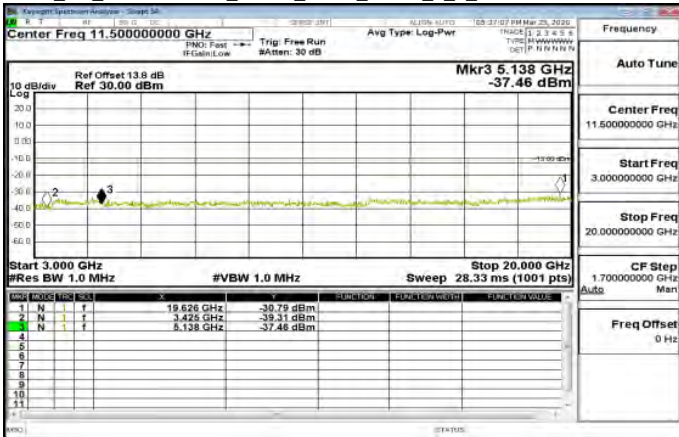
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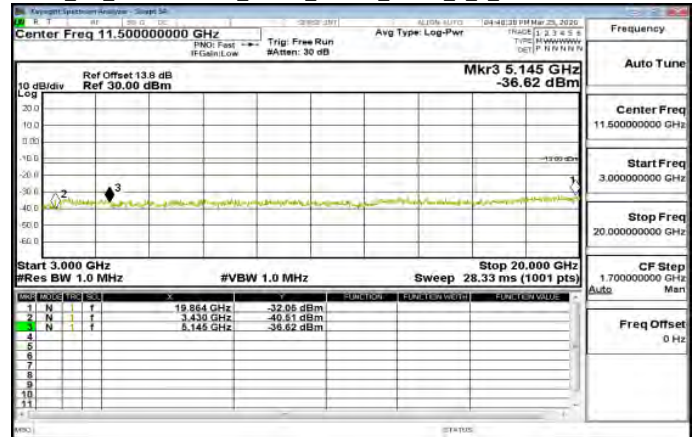
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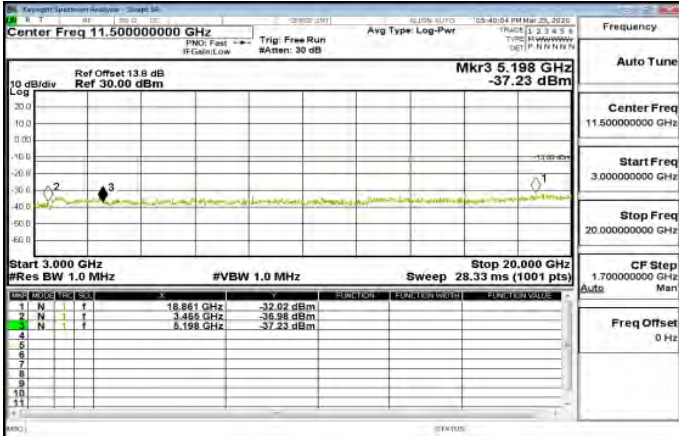
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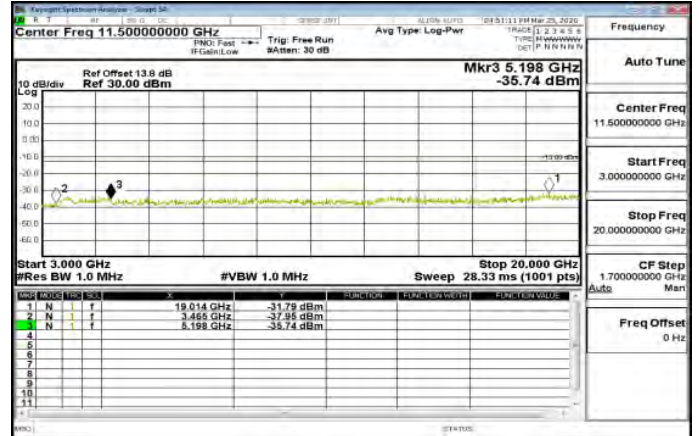
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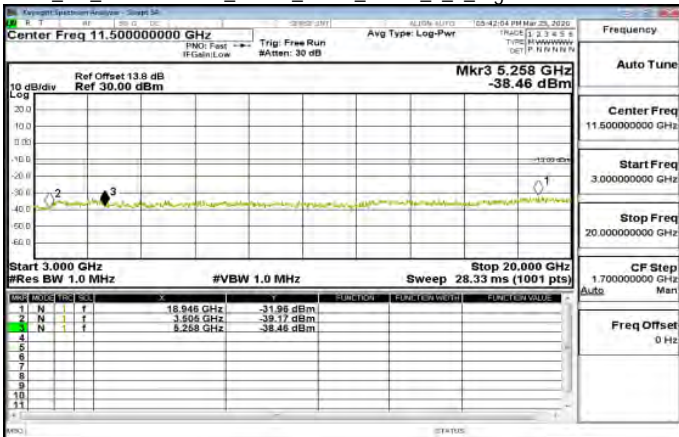
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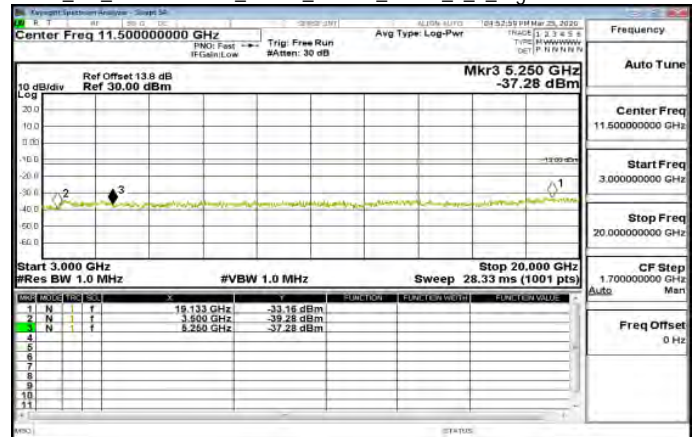
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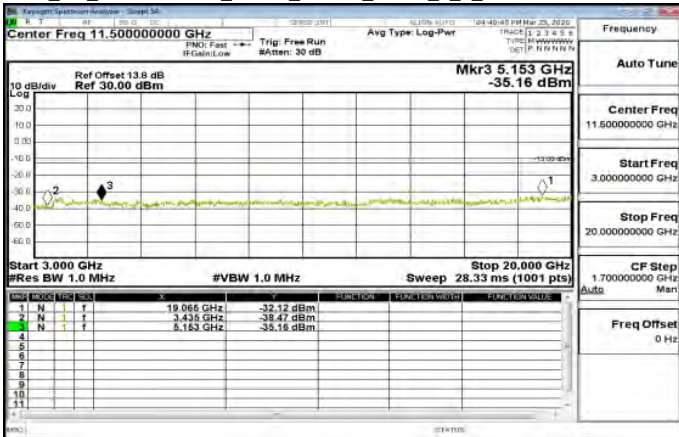
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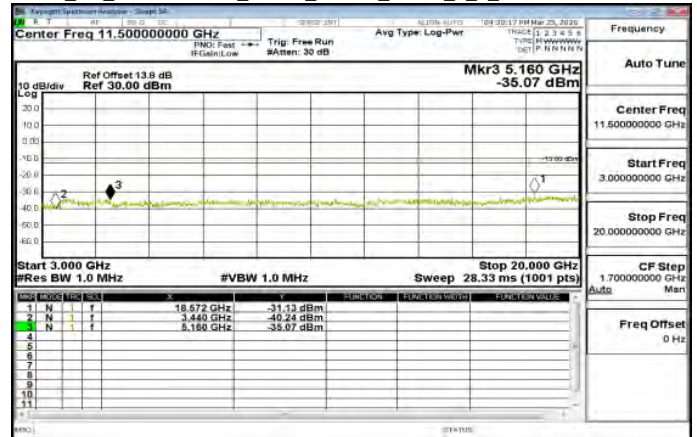
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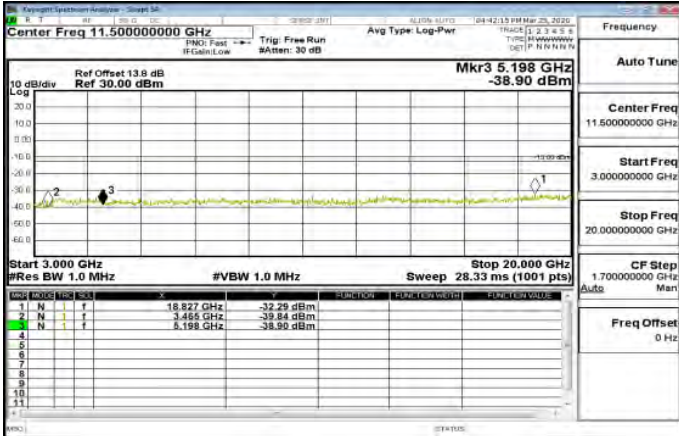
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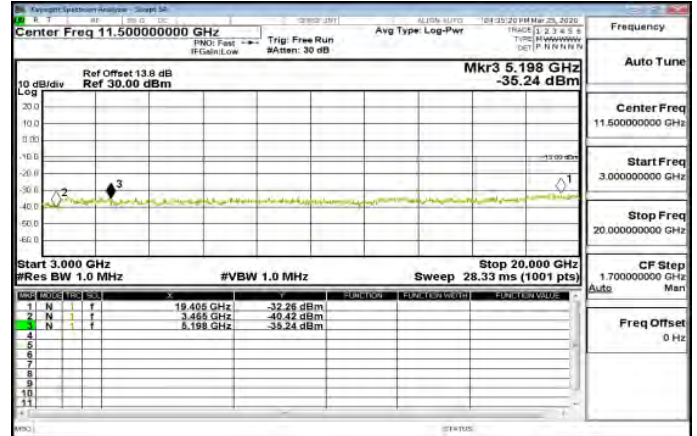
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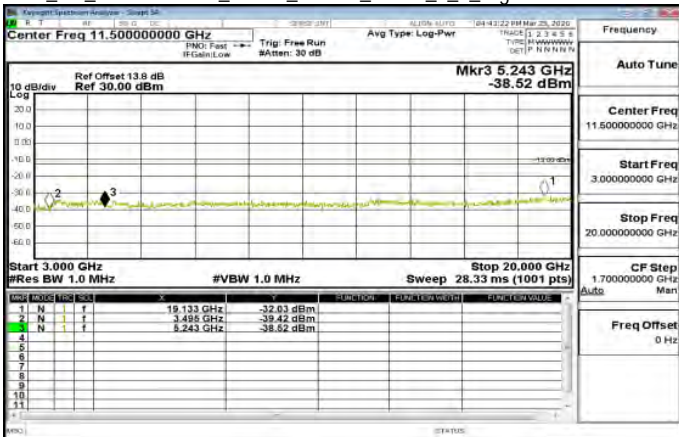
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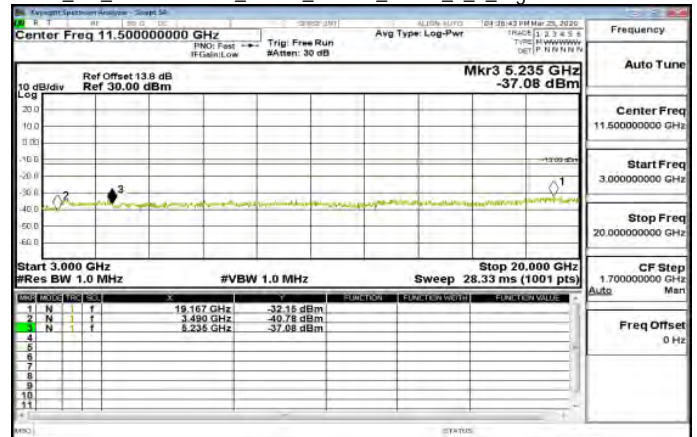
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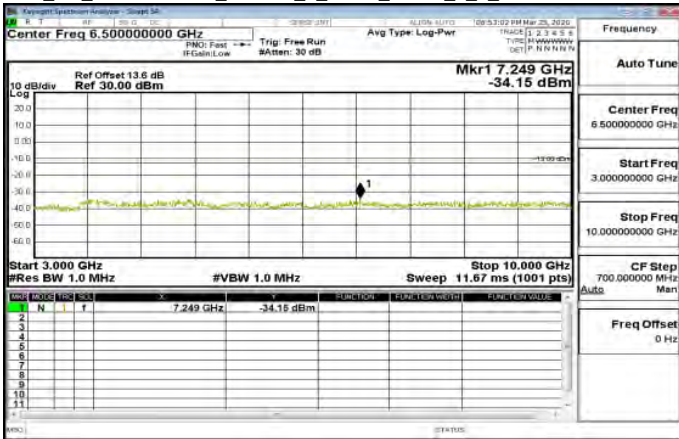
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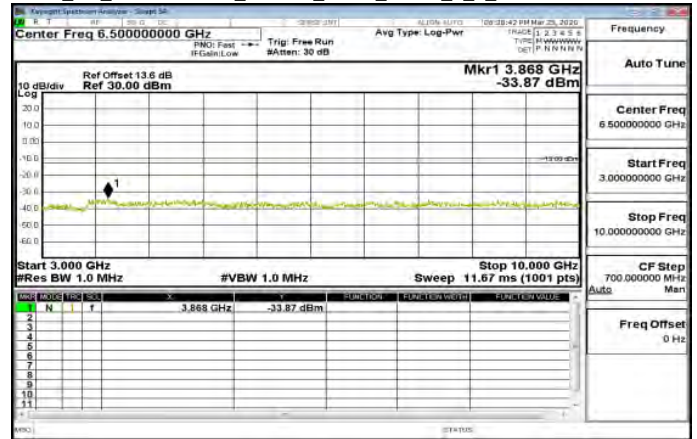
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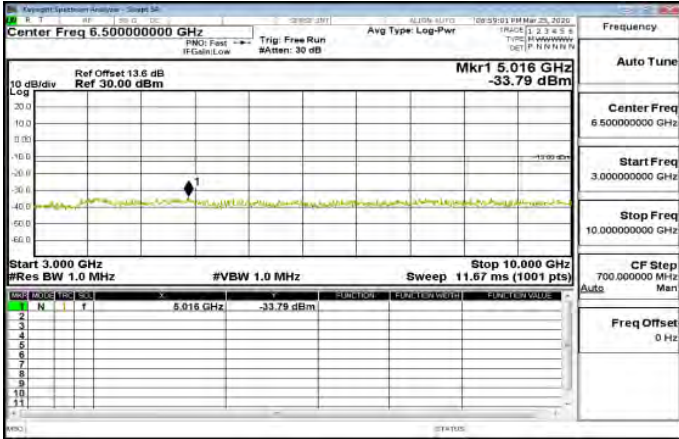
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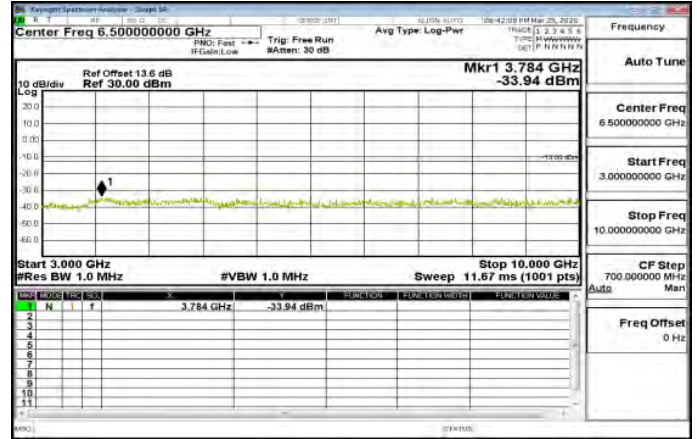
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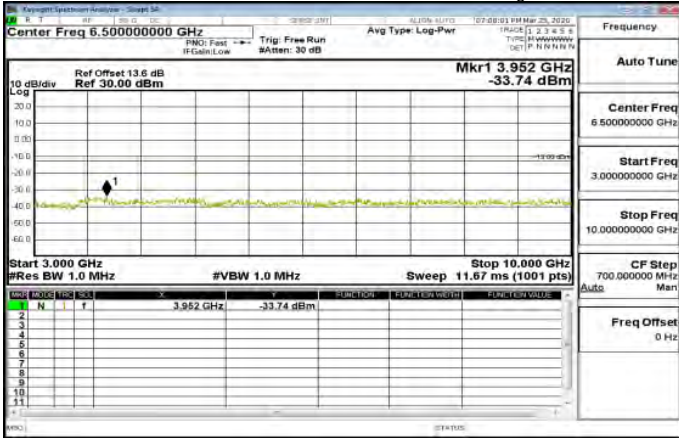
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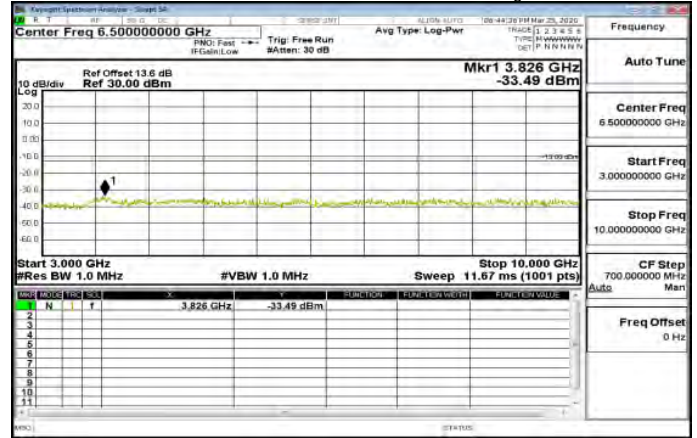
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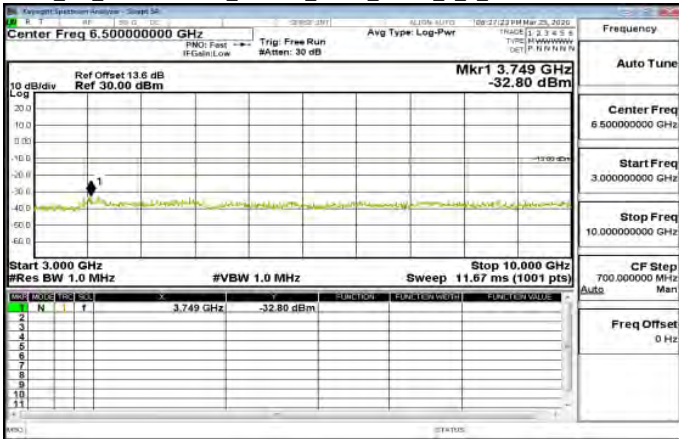
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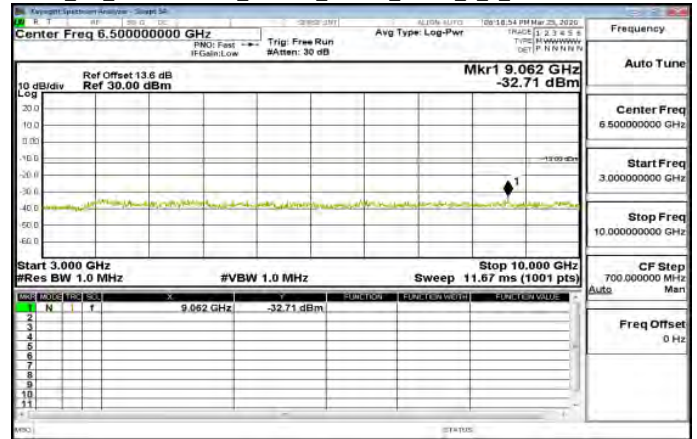
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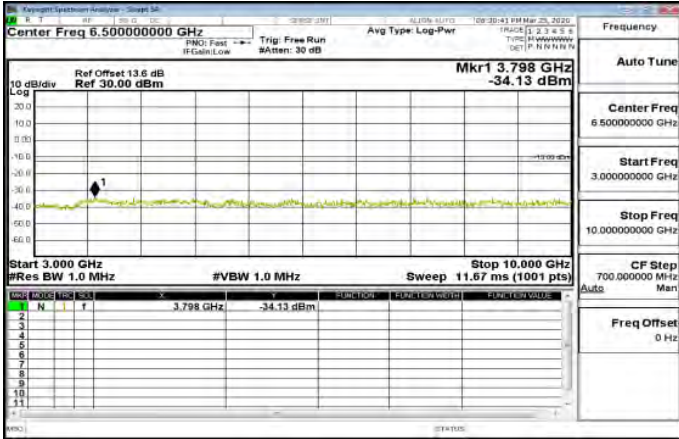
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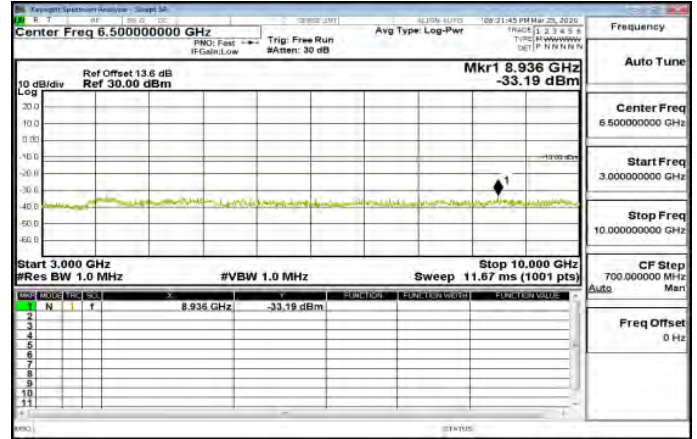
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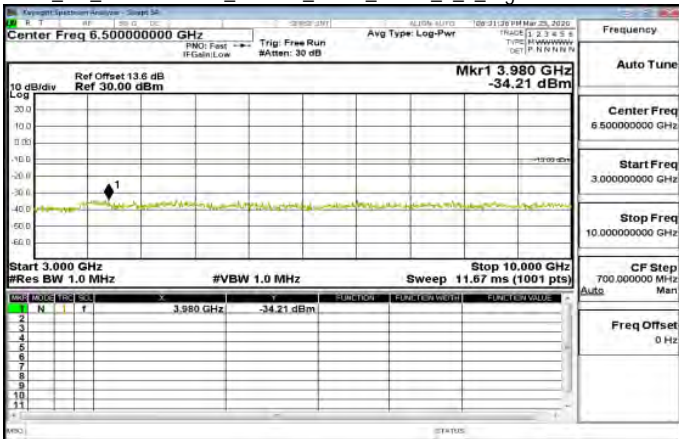
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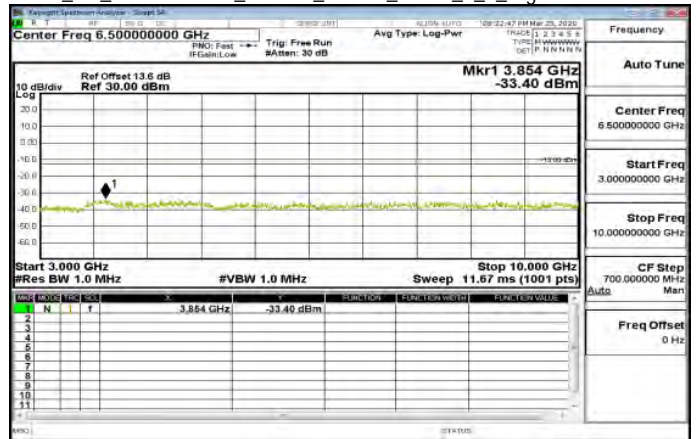
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Cat_M1_3GHz-10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

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) for B12

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.

FCC §27.53(h)(3) for B4

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

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

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

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

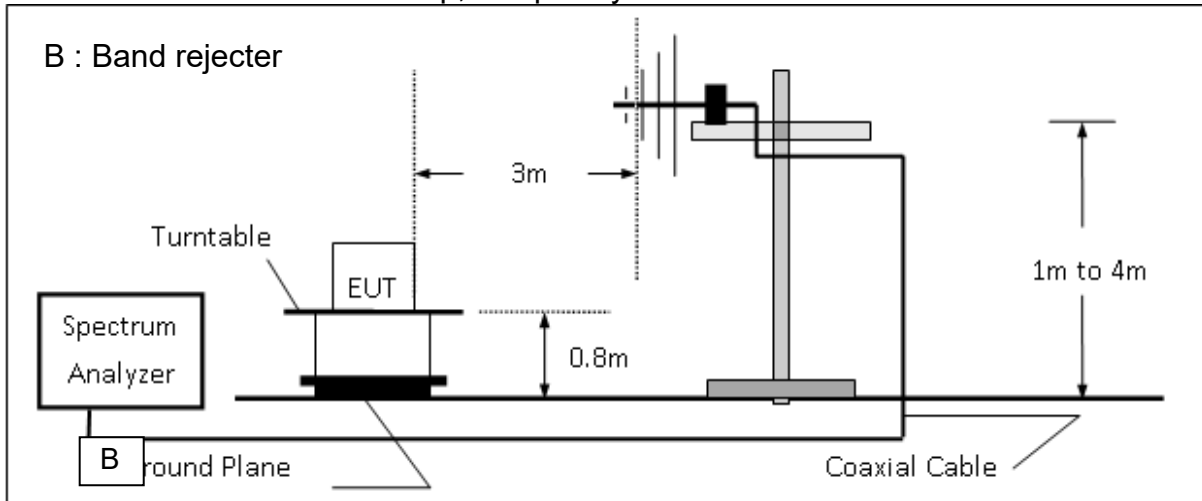
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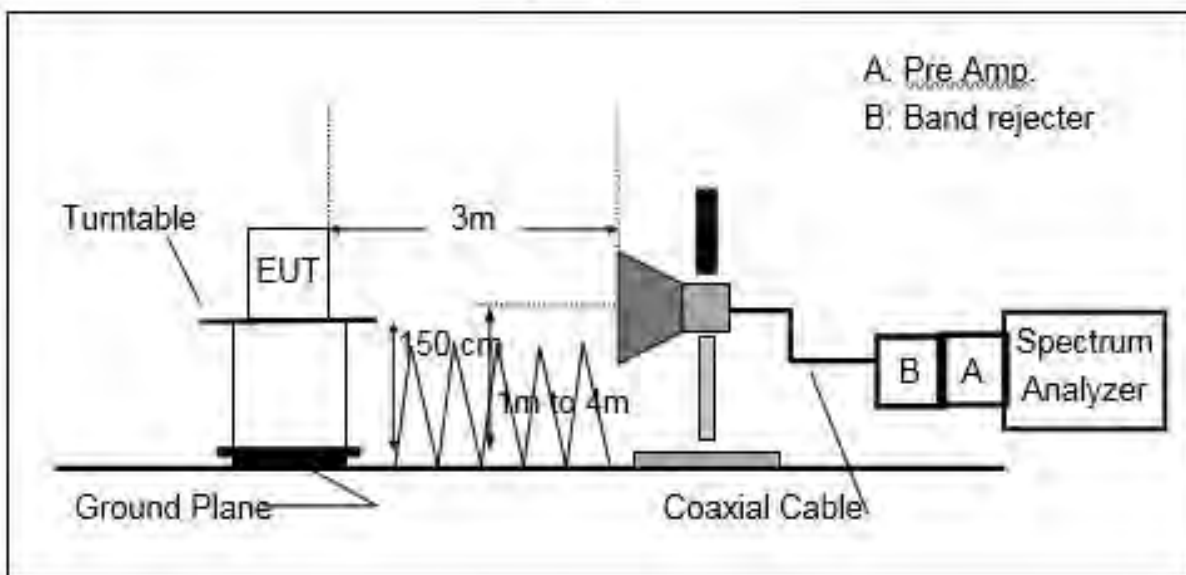
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 Measurement Procedure:

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

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

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

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

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

9.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

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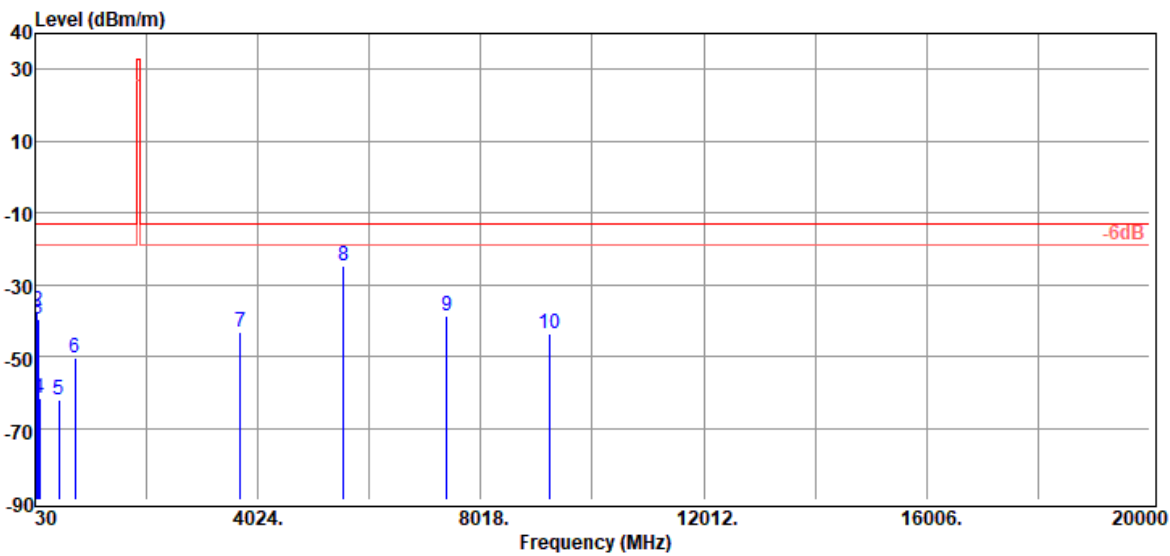
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9.5 Measurement Result:
9.5.1 Radiated Spurious Emission

Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1852.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-61.30	-42.37	-18.07	-0.86	-13.00	-48.30
64.92	-37.33	-22.62	-13.71	-1.00	-13.00	-24.33
83.35	-39.71	-31.10	-7.45	-1.16	-13.00	-26.71
102.75	-61.51	-53.67	-6.48	-1.36	-13.00	-48.51
461.65	-61.94	-57.31	-1.28	-3.35	-13.00	-48.94
746.83	-50.40	-44.60	-1.61	-4.19	-13.00	-37.40
3705.00	-43.28	-44.28	12.31	-11.31	-13.00	-30.28
5557.50	-24.97	-26.90	13.33	-11.40	-13.00	-11.97
7410.00	-38.53	-36.97	11.22	-12.78	-13.00	-25.53
9262.50	-43.61	-40.53	10.75	-13.83	-13.00	-30.61

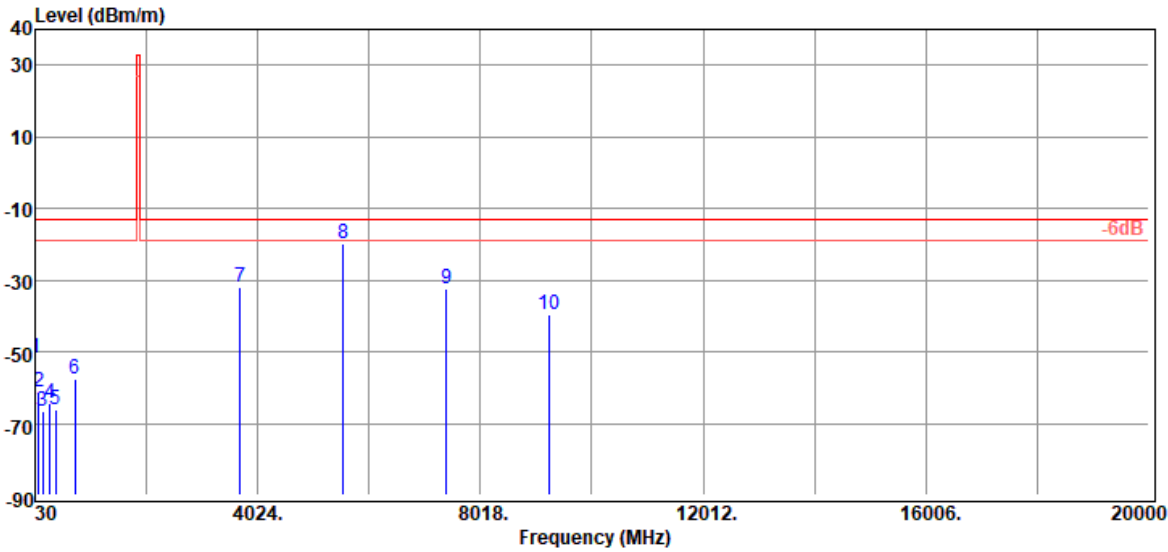
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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1852.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



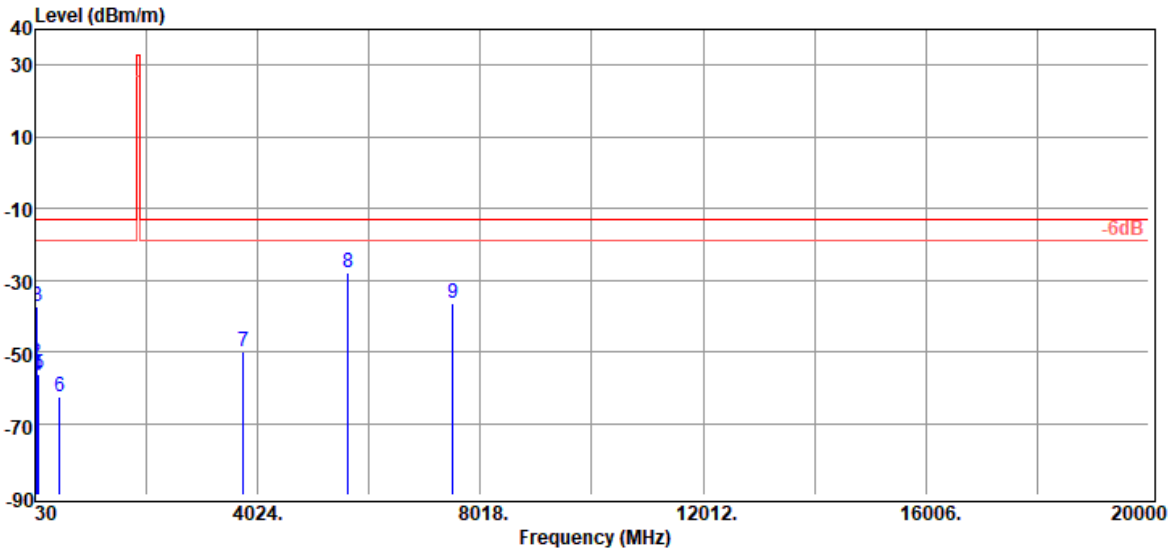
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-51.94	-31.79	-19.35	-0.80	-13.00	-38.94
101.78	-61.33	-53.54	-6.44	-1.35	-13.00	-48.33
161.92	-66.75	-58.21	-6.85	-1.69	-13.00	-53.75
298.69	-64.47	-60.45	-1.51	-2.51	-13.00	-51.47
391.81	-66.02	-61.59	-1.52	-2.91	-13.00	-53.02
740.04	-57.59	-51.84	-1.56	-4.19	-13.00	-44.59
3705.00	-32.16	-33.16	12.31	-11.31	-13.00	-19.16
5557.50	-19.81	-21.74	13.33	-11.40	-13.00	-6.81
7410.00	-32.60	-31.04	11.22	-12.78	-13.00	-19.60
9262.50	-39.84	-36.76	10.75	-13.83	-13.00	-26.84

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



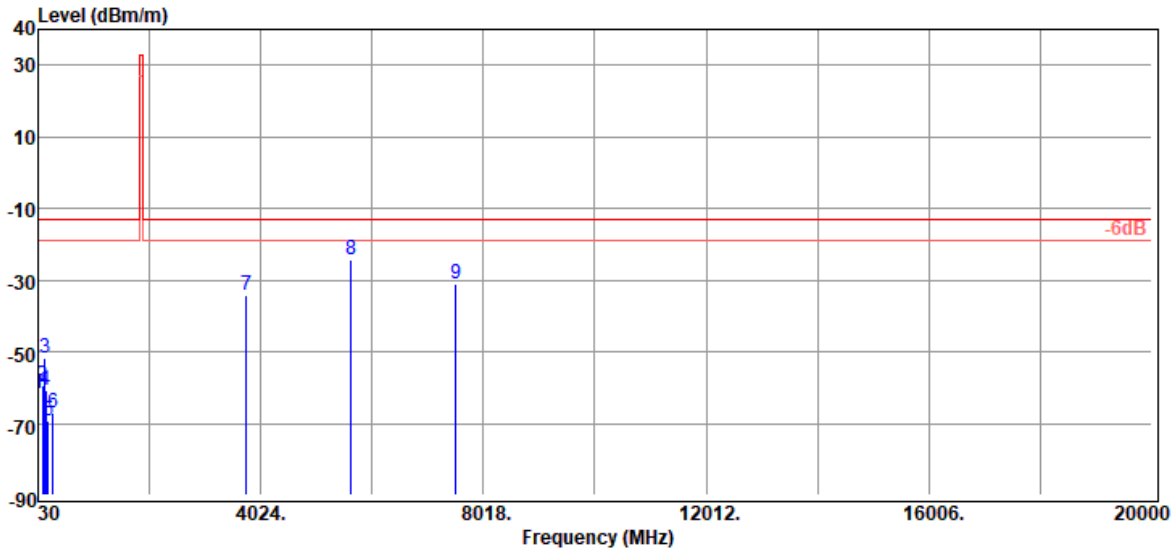
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-55.73	-35.52	-19.43	-0.78	-13.00	-42.73
46.49	-53.31	-34.16	-18.29	-0.86	-13.00	-40.31
61.04	-37.37	-21.45	-14.92	-1.00	-13.00	-24.37
67.83	-56.50	-42.67	-12.83	-1.00	-13.00	-43.50
95.96	-56.05	-49.00	-5.79	-1.26	-13.00	-43.05
466.50	-62.45	-57.95	-1.29	-3.21	-13.00	-49.45
3760.00	-50.17	-51.51	12.42	-11.08	-13.00	-37.17
5640.00	-27.77	-29.70	13.50	-11.57	-13.00	-14.77
7520.00	-36.34	-34.84	11.38	-12.88	-13.00	-23.34

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1880 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



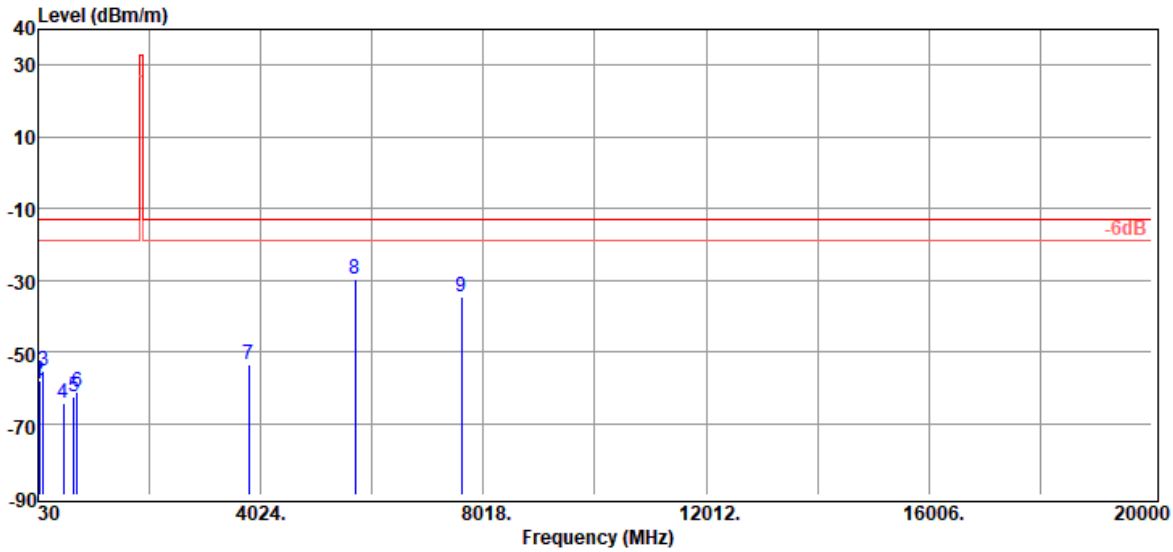
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-61.70	-40.68	-20.36	-0.66	-13.00	-48.70
107.60	-59.26	-50.88	-6.96	-1.42	-13.00	-46.26
147.37	-51.74	-42.50	-7.57	-1.67	-13.00	-38.74
165.80	-60.60	-52.34	-6.55	-1.71	-13.00	-47.60
213.33	-69.10	-65.52	-1.46	-2.12	-13.00	-56.10
304.51	-67.14	-63.07	-1.45	-2.62	-13.00	-54.14
3760.00	-34.14	-35.48	12.42	-11.08	-13.00	-21.14
5640.00	-24.31	-26.24	13.50	-11.57	-13.00	-11.31
7520.00	-30.86	-29.36	11.38	-12.88	-13.00	-17.86

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B2
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1907.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



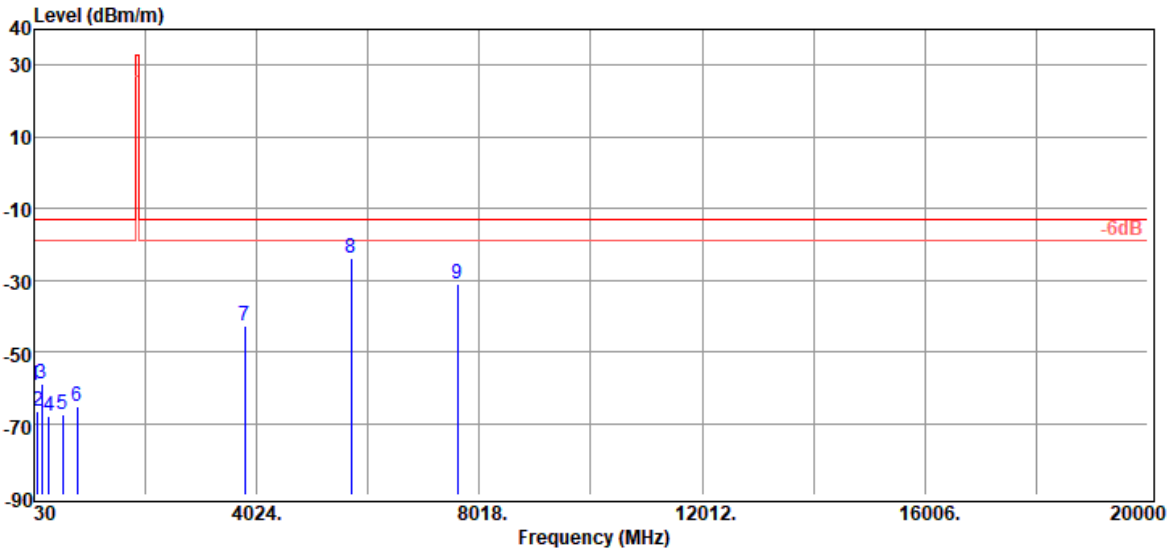
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-59.12	-38.91	-19.43	-0.78	-13.00	-46.12
46.49	-58.01	-38.86	-18.29	-0.86	-13.00	-45.01
123.12	-55.25	-46.69	-7.04	-1.52	-13.00	-42.25
484.93	-64.46	-60.03	-1.13	-3.30	-13.00	-51.46
678.93	-62.41	-57.17	-1.28	-3.96	-13.00	-49.41
729.37	-61.00	-55.26	-1.46	-4.28	-13.00	-48.00
3815.00	-53.52	-55.13	12.50	-10.89	-13.00	-40.52
5722.50	-29.57	-31.22	13.35	-11.70	-13.00	-16.57
7630.00	-34.60	-33.24	11.62	-12.98	-13.00	-21.60

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B2
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan
 Test Frequency :1907.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



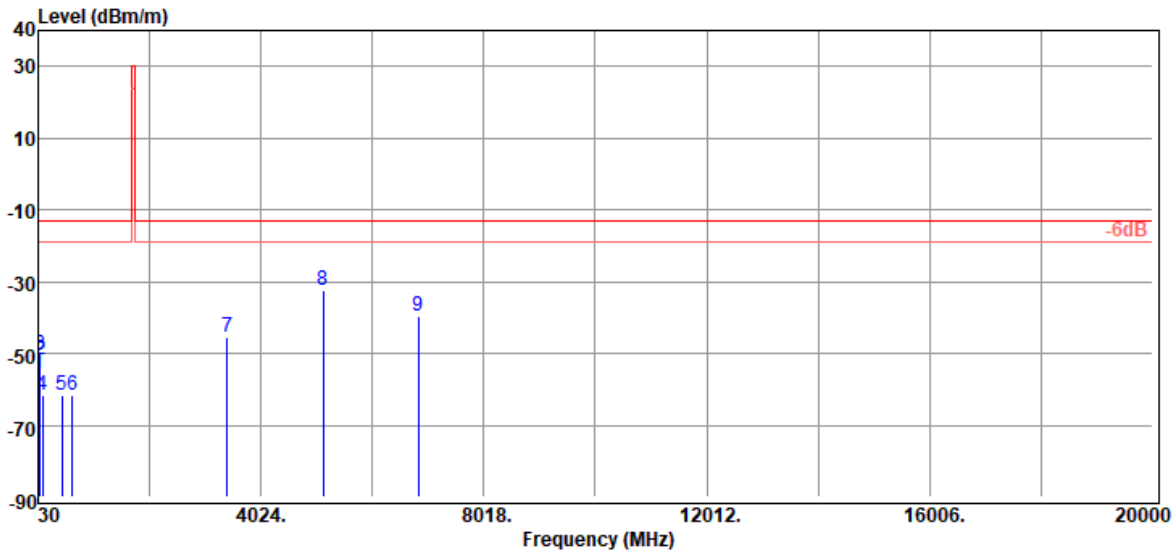
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-59.51	-38.74	-20.09	-0.68	-13.00	-46.51
101.78	-66.62	-58.83	-6.44	-1.35	-13.00	-53.62
160.95	-58.77	-50.18	-6.90	-1.69	-13.00	-45.77
301.60	-67.90	-63.87	-1.48	-2.55	-13.00	-54.90
541.19	-67.49	-62.96	-1.22	-3.31	-13.00	-54.49
796.30	-65.12	-59.05	-1.69	-4.38	-13.00	-52.12
3815.00	-42.67	-44.28	12.50	-10.89	-13.00	-29.67
5722.50	-23.75	-25.40	13.35	-11.70	-13.00	-10.75
7630.00	-31.20	-29.84	11.62	-12.98	-13.00	-18.20

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B4
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Frequency :1712.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :VERTICAL
 Engineer :Enzo



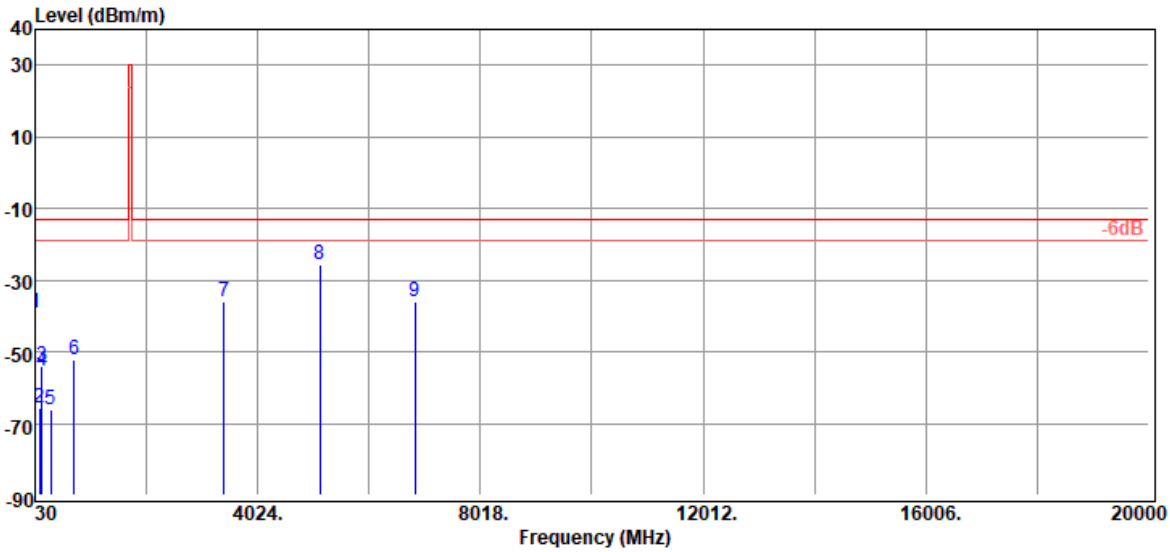
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-55.69	-37.87	-16.91	-0.91	-13.00	-42.69
60.07	-51.76	-35.50	-15.26	-1.00	-13.00	-38.76
67.83	-50.47	-36.64	-12.83	-1.00	-13.00	-37.47
104.69	-61.87	-53.70	-6.78	-1.39	-13.00	-48.87
461.65	-61.67	-57.04	-1.28	-3.35	-13.00	-48.67
643.04	-61.52	-56.12	-1.38	-4.02	-13.00	-48.52
3425.00	-45.35	-46.71	12.65	-11.29	-13.00	-32.35
5137.50	-32.33	-33.01	12.48	-11.80	-13.00	-19.33
6850.00	-39.46	-39.49	12.40	-12.37	-13.00	-26.46

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :1712.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



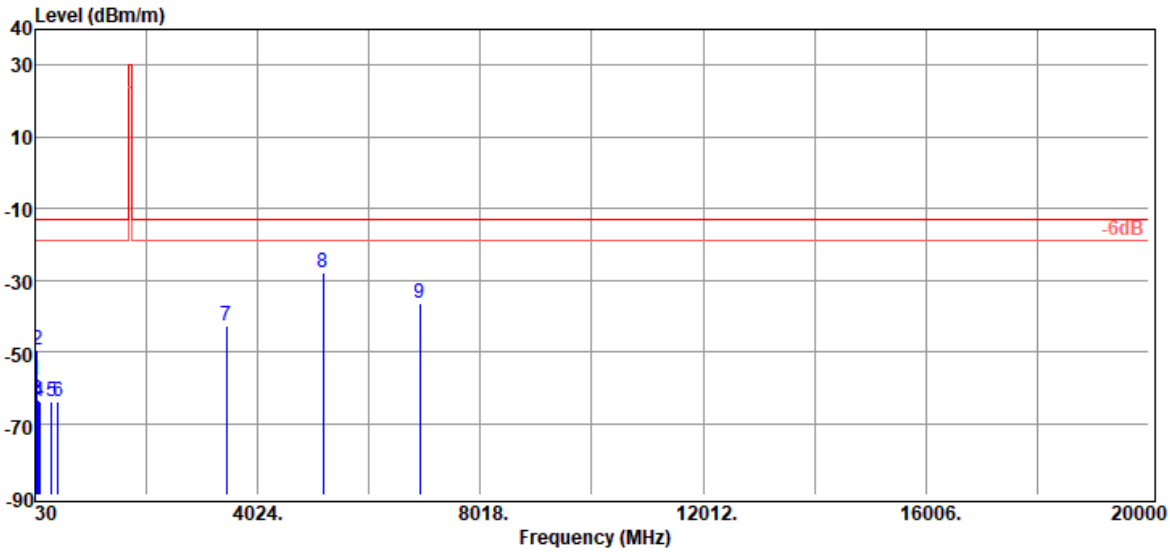
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-39.25	-18.85	-19.64	-0.76	-13.00	-26.25
103.72	-65.66	-57.65	-6.64	-1.37	-13.00	-52.66
151.25	-54.20	-45.17	-7.35	-1.68	-13.00	-41.20
159.01	-55.30	-46.61	-7.01	-1.68	-13.00	-42.30
306.45	-66.25	-62.12	-1.47	-2.66	-13.00	-53.25
735.19	-52.24	-46.57	-1.42	-4.25	-13.00	-39.24
3425.00	-36.09	-37.45	12.65	-11.29	-13.00	-23.09
5137.50	-25.64	-26.32	12.48	-11.80	-13.00	-12.64
6850.00	-36.11	-36.14	12.40	-12.37	-13.00	-23.11

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



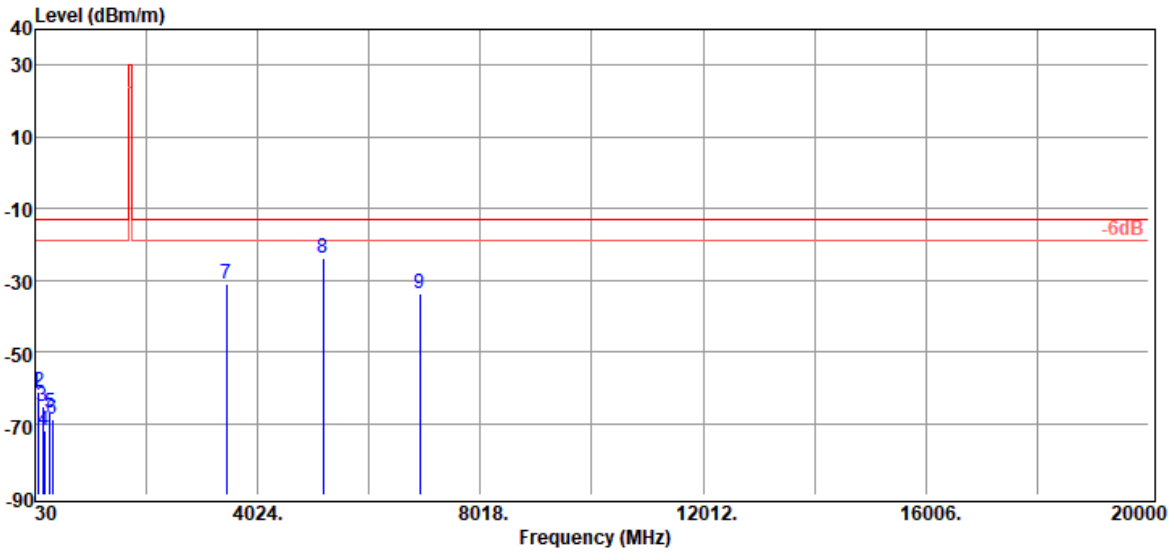
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-57.97	-39.60	-17.50	-0.87	-13.00	-44.97
60.07	-49.31	-33.05	-15.26	-1.00	-13.00	-36.31
83.35	-63.64	-55.03	-7.45	-1.16	-13.00	-50.64
115.36	-64.00	-55.41	-7.14	-1.45	-13.00	-51.00
327.79	-63.92	-59.67	-1.58	-2.67	-13.00	-50.92
448.07	-64.09	-59.73	-1.44	-2.92	-13.00	-51.09
3465.00	-42.70	-44.18	12.51	-11.03	-13.00	-29.70
5197.50	-28.11	-28.81	12.69	-11.99	-13.00	-15.11
6930.00	-36.34	-36.21	12.08	-12.21	-13.00	-23.34

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :1732.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



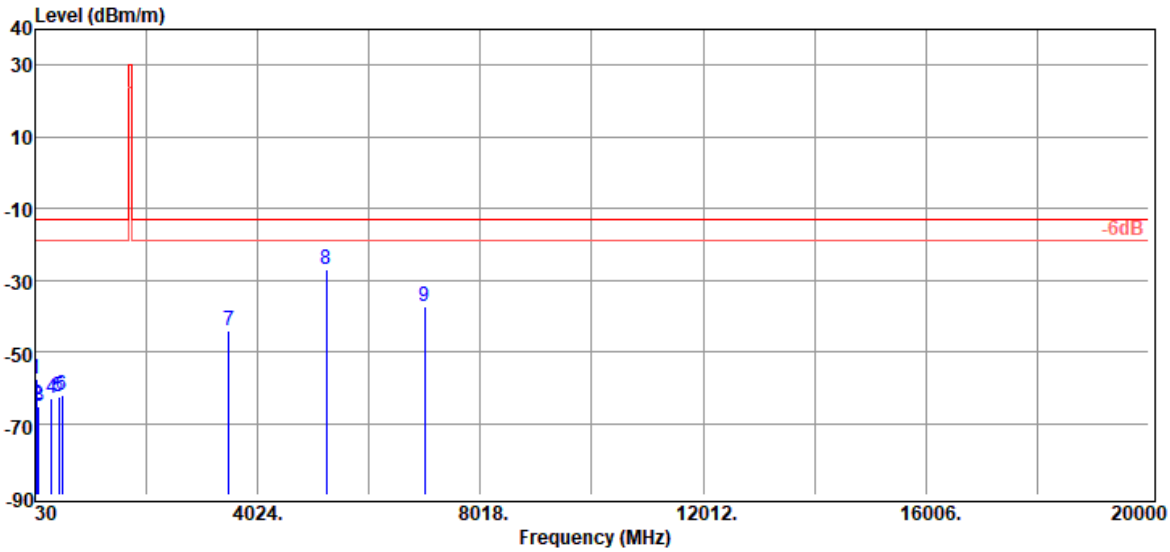
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-61.87	-41.10	-20.09	-0.68	-13.00	-48.87
101.78	-61.17	-53.38	-6.44	-1.35	-13.00	-48.17
160.95	-65.13	-56.54	-6.90	-1.69	-13.00	-52.13
189.08	-72.21	-67.25	-3.10	-1.86	-13.00	-59.21
296.75	-67.18	-63.14	-1.53	-2.51	-13.00	-54.18
346.22	-68.77	-64.71	-1.45	-2.61	-13.00	-55.77
3465.00	-30.92	-32.40	12.51	-11.03	-13.00	-17.92
5197.50	-24.02	-24.72	12.69	-11.99	-13.00	-11.02
6930.00	-33.98	-33.85	12.08	-12.21	-13.00	-20.98

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1752.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



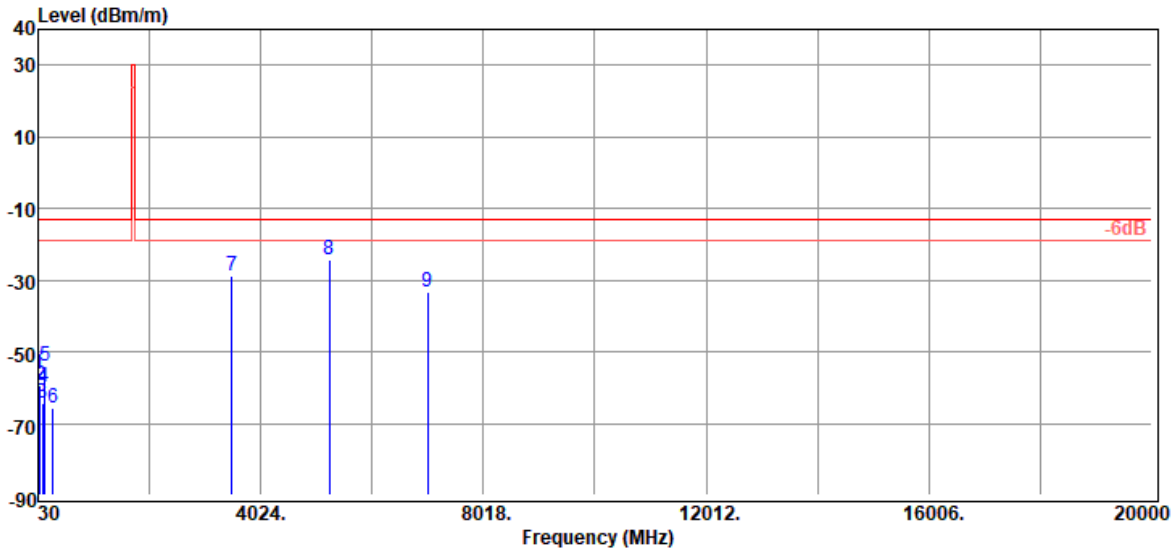
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-57.75	-38.60	-18.29	-0.86	-13.00	-44.75
65.89	-64.72	-50.42	-13.30	-1.00	-13.00	-51.72
94.02	-65.27	-58.26	-5.78	-1.23	-13.00	-52.27
331.67	-62.90	-58.66	-1.59	-2.65	-13.00	-49.90
458.74	-62.48	-57.83	-1.31	-3.34	-13.00	-49.48
515.97	-62.03	-57.24	-1.22	-3.57	-13.00	-49.03
3505.00	-44.22	-45.69	12.30	-10.83	-13.00	-31.22
5257.50	-26.98	-28.27	13.13	-11.84	-13.00	-13.98
7010.00	-37.23	-36.89	11.86	-12.20	-13.00	-24.23

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B4
Test Mode :TX CH HIGH
EUT Pol :E2 Plan
Test Frequency :1752.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



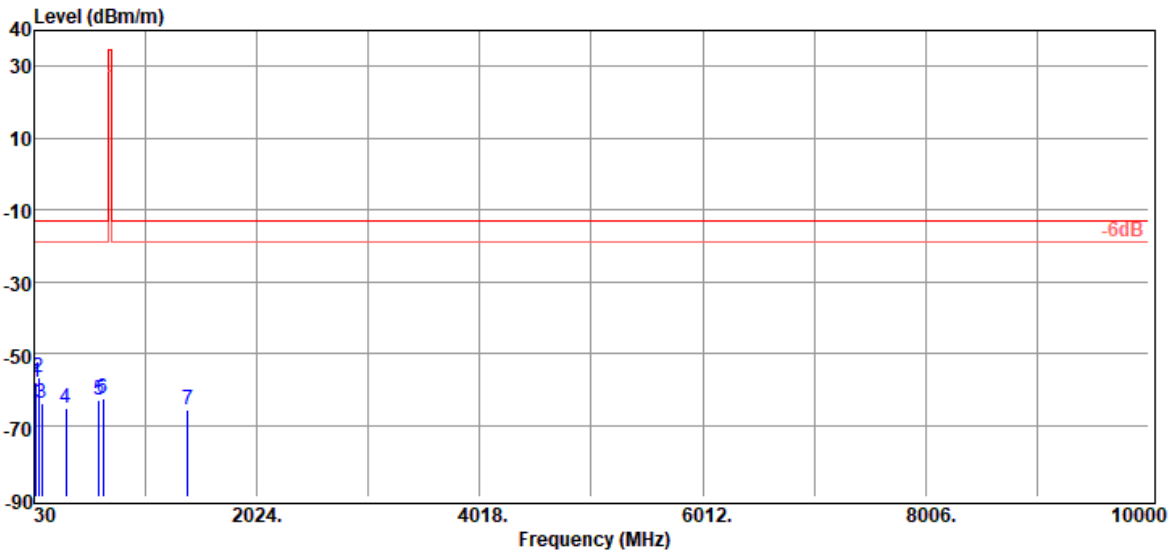
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-56.10	-36.02	-19.25	-0.83	-13.00	-43.10
61.04	-59.25	-43.33	-14.92	-1.00	-13.00	-46.25
104.69	-64.37	-56.20	-6.78	-1.39	-13.00	-51.37
141.55	-60.06	-50.72	-7.68	-1.66	-13.00	-47.06
149.31	-54.06	-44.92	-7.46	-1.68	-13.00	-41.06
302.57	-65.89	-61.85	-1.47	-2.57	-13.00	-52.89
3505.00	-28.65	-30.12	12.30	-10.83	-13.00	-15.65
5257.50	-24.53	-25.82	13.13	-11.84	-13.00	-11.53
7010.00	-33.32	-32.98	11.86	-12.20	-13.00	-20.32

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH LOW
EUT Pol :E2 Plan
Test Frequency :701.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :VERTICAL
Engineer :Enzo



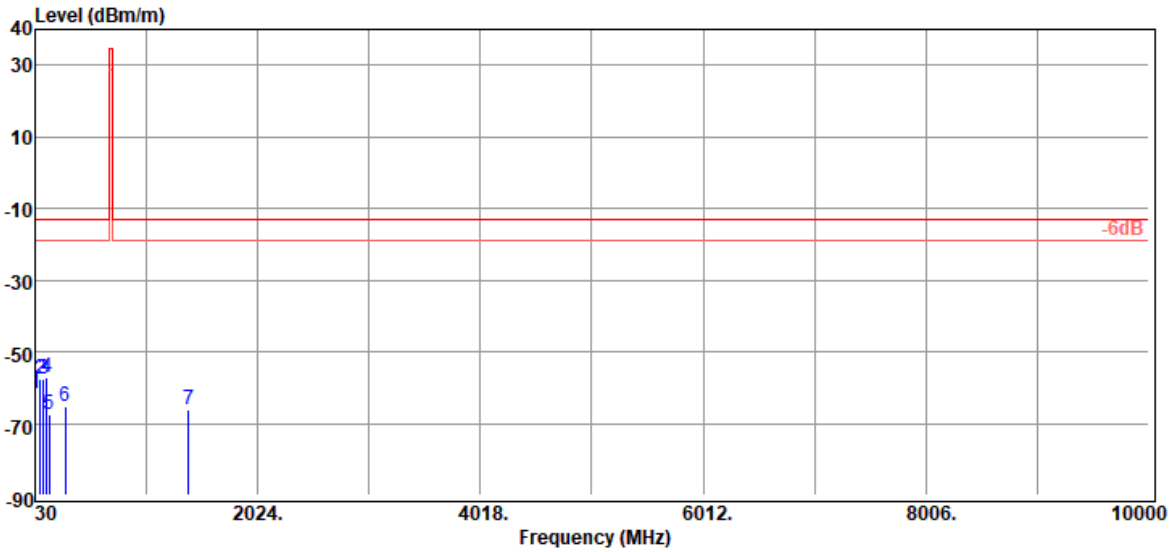
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-58.29	-39.14	-18.29	-0.86	-13.00	-45.29
67.83	-56.55	-42.72	-12.83	-1.00	-13.00	-43.55
98.87	-64.00	-56.57	-6.12	-1.31	-13.00	-51.00
315.18	-65.37	-61.15	-1.47	-2.75	-13.00	-52.37
612.00	-62.81	-57.21	-1.70	-3.90	-13.00	-49.81
644.98	-62.45	-57.14	-1.35	-3.96	-13.00	-49.45
1403.00	-65.93	-66.42	7.02	-6.53	-13.00	-52.93

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B12
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan
 Test Frequency :701.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



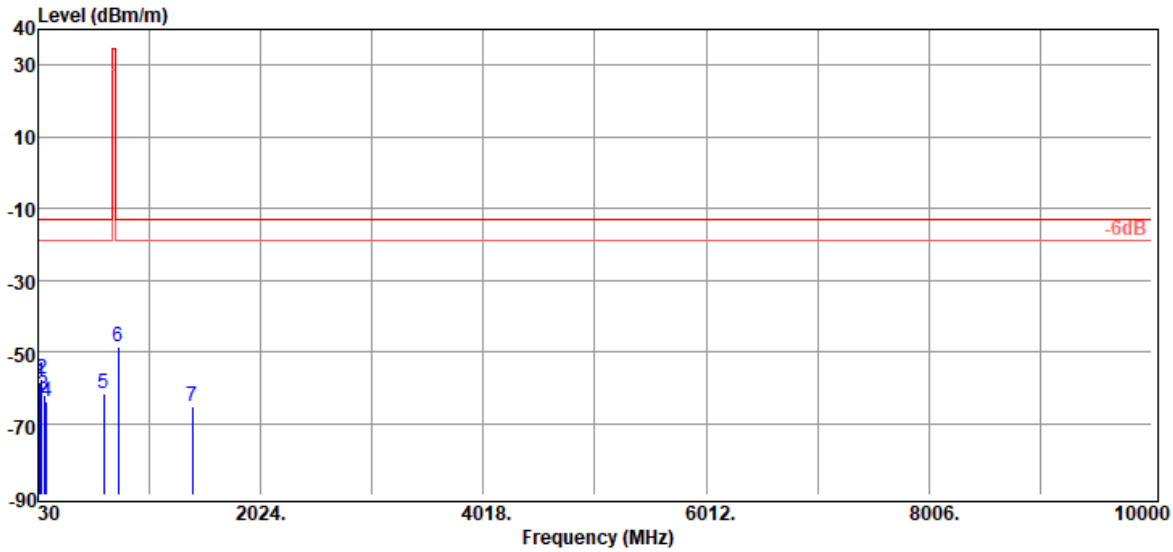
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-61.56	-41.06	-19.77	-0.73	-13.00	-48.56
79.47	-57.59	-47.90	-8.54	-1.15	-13.00	-44.59
108.57	-57.52	-49.11	-6.98	-1.43	-13.00	-44.52
135.73	-57.30	-48.08	-7.56	-1.66	-13.00	-44.30
158.04	-67.57	-58.82	-7.07	-1.68	-13.00	-54.57
299.66	-65.34	-61.33	-1.50	-2.51	-13.00	-52.34
1403.00	-66.12	-66.61	7.02	-6.53	-13.00	-53.12

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B12
 Test Mode :TX CH MID
 EUT Pol :E2 Plan
 Test Frequency :707.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :VERTICAL
 Engineer :Enzo



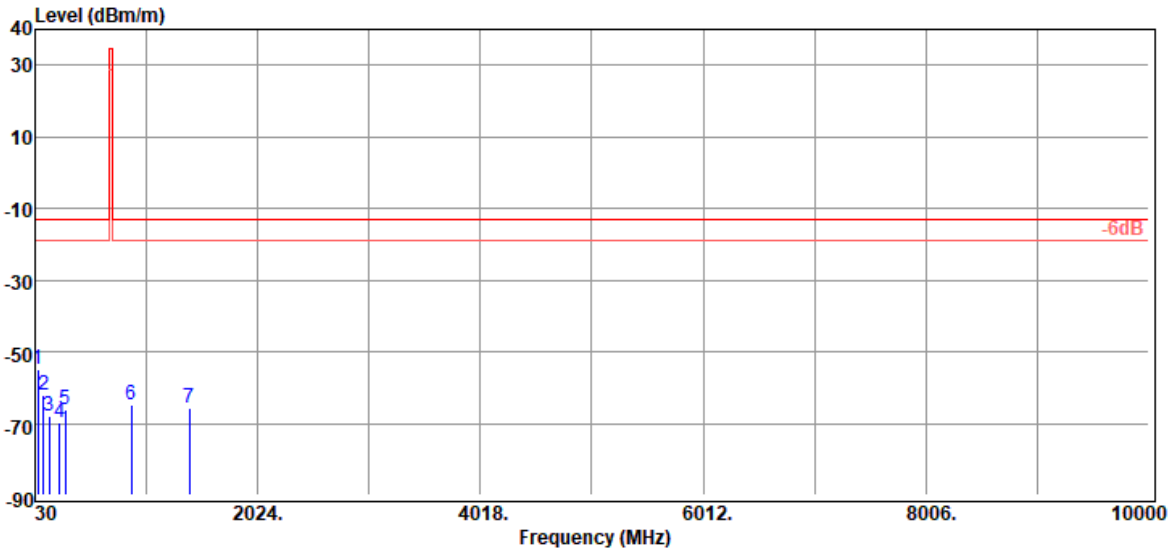
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-58.49	-39.56	-18.07	-0.86	-13.00	-45.49
64.92	-57.46	-42.75	-13.71	-1.00	-13.00	-44.46
82.38	-62.04	-53.20	-7.68	-1.16	-13.00	-49.04
103.72	-64.04	-56.03	-6.64	-1.37	-13.00	-51.04
619.76	-61.82	-56.65	-1.59	-3.58	-13.00	-48.82
747.80	-48.66	-42.85	-1.62	-4.19	-13.00	-35.66
1415.00	-65.11	-65.68	7.12	-6.55	-13.00	-52.11

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Report Number :E2/2020/30003
Operation Mode :Cat M1 B12
Test Mode :TX CH MID
EUT Pol :E2 Plan
Test Frequency :707.5 MHz

Test Date :2020-03-20
Temp./Humi. :22.4/62
Antenna Pol. :HORIZONTAL
Engineer :Enzo



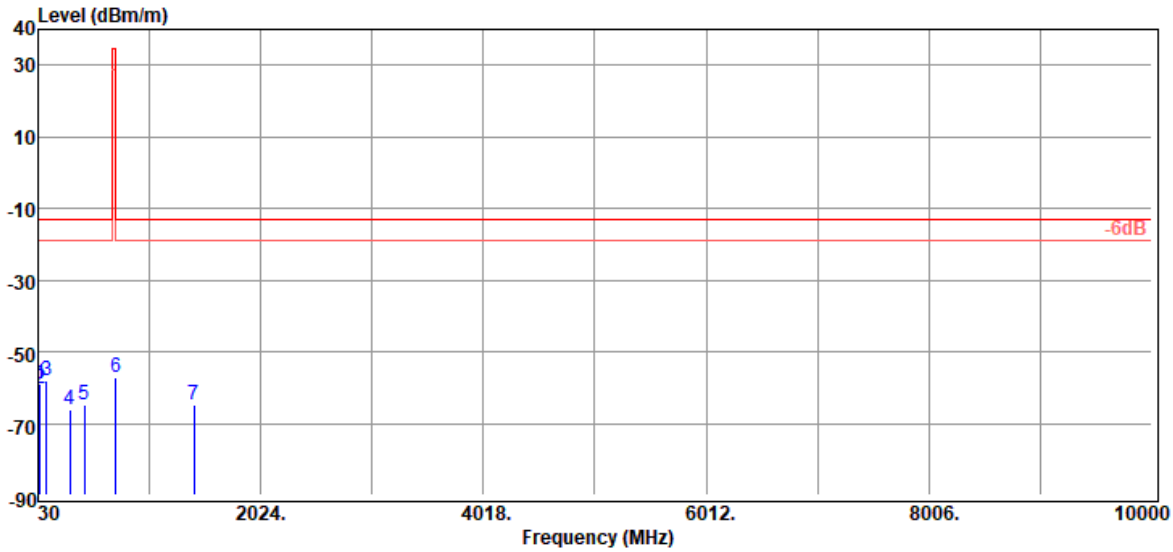
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-54.87	-37.46	-16.48	-0.93	-13.00	-41.87
103.72	-62.33	-54.32	-6.64	-1.37	-13.00	-49.33
158.04	-67.86	-59.11	-7.07	-1.68	-13.00	-54.86
253.10	-69.59	-65.81	-1.54	-2.24	-13.00	-56.59
303.54	-66.31	-62.26	-1.46	-2.59	-13.00	-53.31
892.33	-64.69	-58.65	-1.43	-4.61	-13.00	-51.69
1415.00	-65.82	-66.39	7.12	-6.55	-13.00	-52.82

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B12
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan
 Test Frequency :713.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :VERTICAL
 Engineer :Enzo



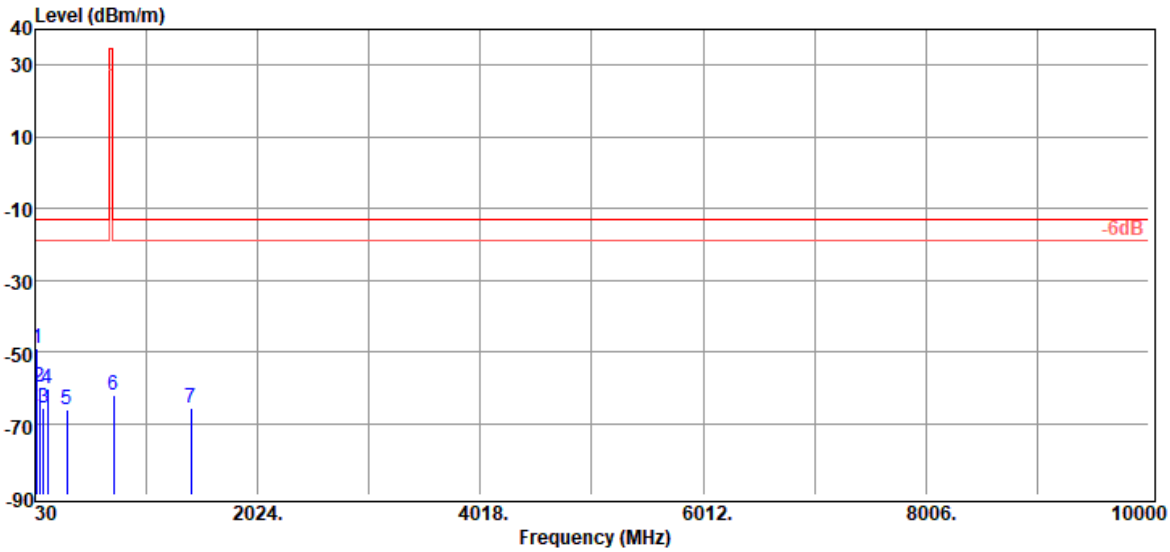
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-58.84	-39.69	-18.29	-0.86	-13.00	-45.84
51.34	-60.11	-41.90	-17.33	-0.88	-13.00	-47.11
102.75	-58.18	-50.34	-6.48	-1.36	-13.00	-45.18
318.09	-65.94	-61.74	-1.45	-2.75	-13.00	-52.94
447.10	-64.61	-60.27	-1.42	-2.92	-13.00	-51.61
729.37	-56.98	-51.24	-1.46	-4.28	-13.00	-43.98
1427.00	-64.74	-65.39	7.22	-6.57	-13.00	-51.74

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Report Number :E2/2020/30003
 Operation Mode :Cat M1 B12
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan
 Test Frequency :713.5 MHz

Test Date :2020-03-20
 Temp./Humi. :22.4/62
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-48.98	-30.61	-17.50	-0.87	-13.00	-35.98
70.74	-60.01	-47.28	-11.72	-1.01	-13.00	-47.01
103.72	-65.87	-57.86	-6.64	-1.37	-13.00	-52.87
144.46	-60.27	-50.96	-7.64	-1.67	-13.00	-47.27
312.27	-66.33	-62.09	-1.49	-2.75	-13.00	-53.33
730.34	-62.03	-56.25	-1.47	-4.31	-13.00	-49.03
1427.00	-65.67	-66.32	7.22	-6.57	-13.00	-52.67

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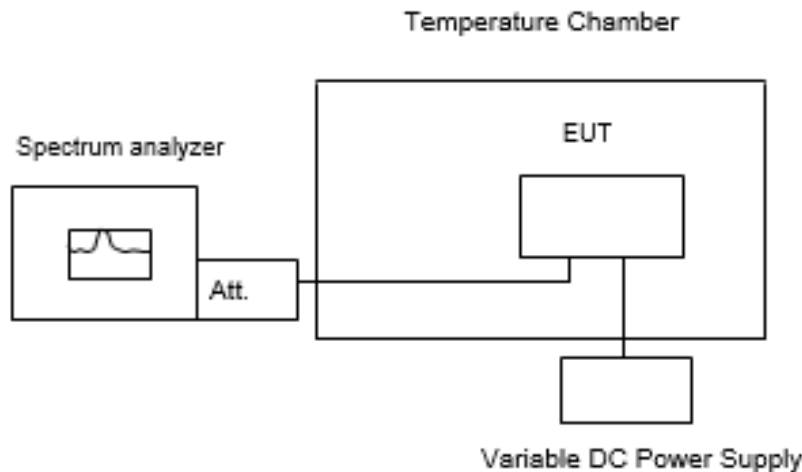
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

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

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

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10.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020
Splitter	Woken	DOM35LW1A2	RF36	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

10.5 Measurement Result

Note: The battery is rated 3.7V dc.

10.5.1 Cat M1

Reference Freq.:		M1 B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.255	25	1879.999997	-3	4700	
3.7	25	1880.000006	6	4700	
3.6	25	1879.999995	-5	4700	
3.5 (End Point)	25	1879.999998	-2	4700	
Freq. ERROR vs. Temp.					
3.7	-30	1880.000001	1	4700	
3.7	-20	1880.000000	0	4700	
3.7	-10	1880.000001	1	4700	
3.7	0	1880.000006	6	4700	
3.7	10	1880.000009	9	4700	
3.7	20	1880.000004	4	4700	
3.7	30	1880.000006	6	4700	
3.7	40	1879.999997	-3	4700	
3.7	50	1880.000004	4	4700	

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Reference Freq.:		M1 B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.255	25	1732.499999	-1	4331	
3.7	25	1732.500005	5	4331	
3.6	25	1732.500008	8	4331	
3.5 (End Point)	25	1732.500003	3	4331	
Freq. ERROR vs. Temp.					
3.7	-30	1732.500000	0	4331	
3.7	-20	1732.500008	8	4331	
3.7	-10	1732.500003	3	4331	
3.7	0	1732.499999	-1	4331	
3.7	10	1732.500008	8	4331	
3.7	20	1732.500008	8	4331	
3.7	30	1732.499995	-5	4331	
3.7	40	1732.500000	0	4331	
3.7	50	1732.500007	7	4331	
Reference Freq.:		M1 B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.255	25	707.500002	2	1769	
3.7	25	707.500001	1	1769	
3.6	25	707.499999	-1	1769	
3.5 (End Point)	25	707.499995	-5	1769	
Freq. ERROR vs. Temp.					
3.7	-30	707.500000	0	1769	
3.7	-20	707.499998	-2	1769	
3.7	-10	707.499999	-1	1769	
3.7	0	707.499995	-5	1769	
3.7	10	707.500002	2	1769	
3.7	20	707.500000	0	1769	
3.7	30	707.500006	6	1769	
3.7	40	707.500002	2	1769	
3.7	50	707.499999	-1	1769	

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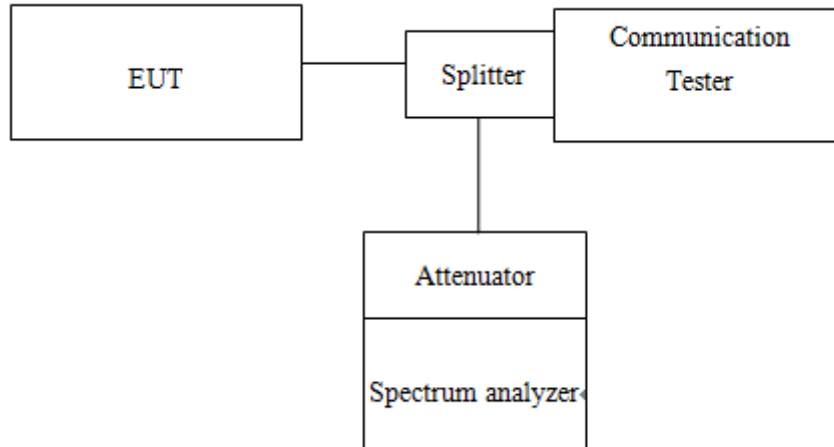
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 Measurement Procedure

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

11.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Splitter	Woken	DOM35LW1A2	RF36	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

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11.5 Measurement Result

11.5.1 Cat M1

M1 BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1850.7	18607	11.51	13	1851.5	18615	10.14	13
1880.0	18900	9.22	13	1880.0	18900	11.34	13
1909.3	19193	8.39	13	1908.5	19185	9.84	13

M1 BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1852.5	18625	6.66	13	1855.0	18650	6.37	13
1880.0	18900	7.30	13	1880.0	18900	9.73	13
1907.5	19175	10.58	13	1905.0	19150	9.96	13

M1 BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1857.5	18675	9.91	13	1860.0	18700	4.37	13
1880.0	18900	7.61	13	1880.0	18900	6.77	13
1902.5	19125	7.52	13	1900.0	19100	7.59	13

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M1 BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1710.7	19957	10.57	13	1711.5	19965	8.29	13
1732.5	20175	11.04	13	1732.5	20175	9.85	13
1754.3	20393	11.79	13	1753.5	20385	8.08	13

M1 BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1712.5	19957	9.68	13	1715.0	20000	9.32	13
1732.5	20175	9.73	13	1732.5	20175	10.84	13
1752.5	20375	6.81	13	1750.0	20350	10.02	13

M1 BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
1717.5	20025	9.53	13	1720.0	20050	8.55	13
1732.5	20175	7.55	13	1732.5	20175	6.43	13
1747.5	20325	7.59	13	1745.0	20300	8.98	13

M1 BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
699.7	23017	10.78	13	700.5	23025	6.68	13
707.5	23095	8.74	13	707.5	23095	8.00	13
715.3	23173	8.46	13	714.5	23165	8.51	13

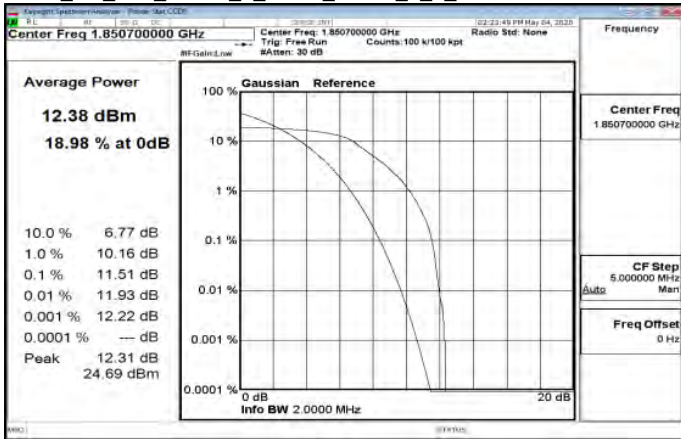
M1 BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		QPSK	Limit			QPSK	Limit
701.5	23035	10.06	13	704.0	23060	10.42	13
707.5	23095	9.90	13	707.5	23095	8.47	13
713.5	23155	8.89	13	711.0	23130	9.75	13

Please refer to next page for test plots.

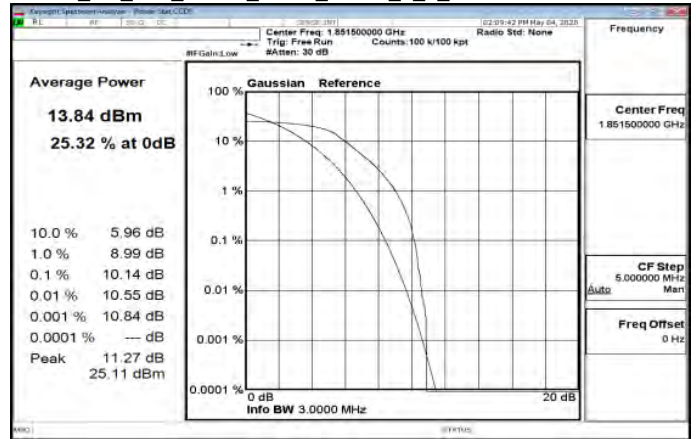
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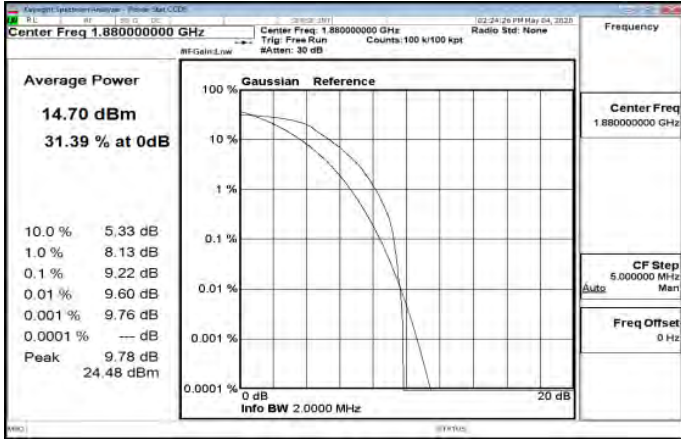
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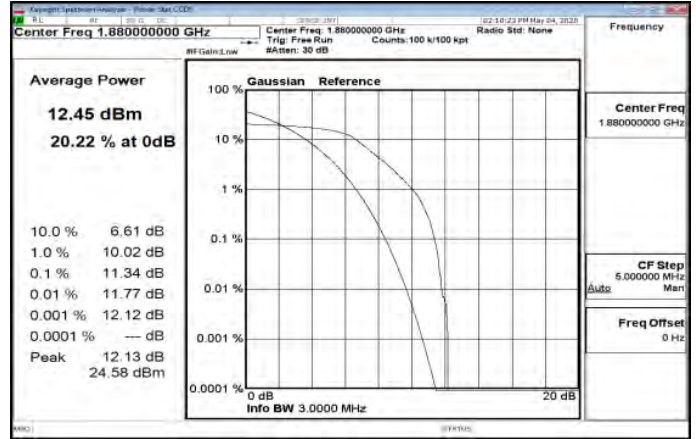
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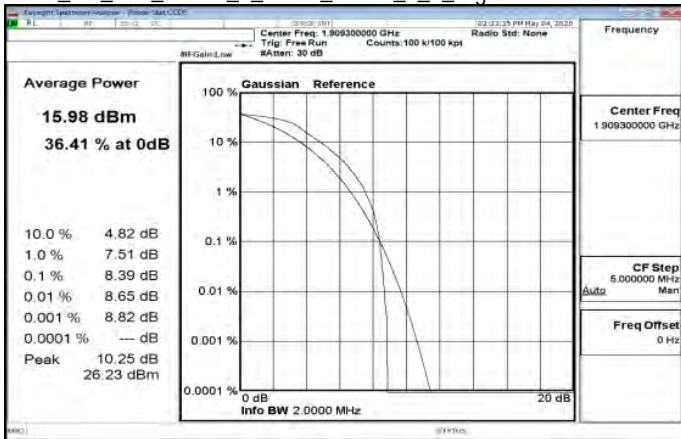
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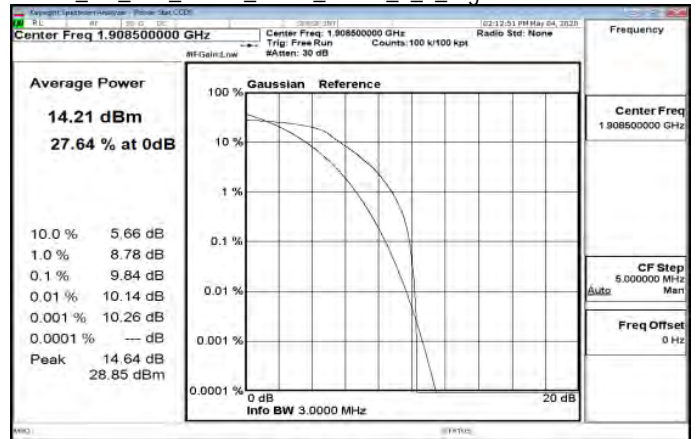
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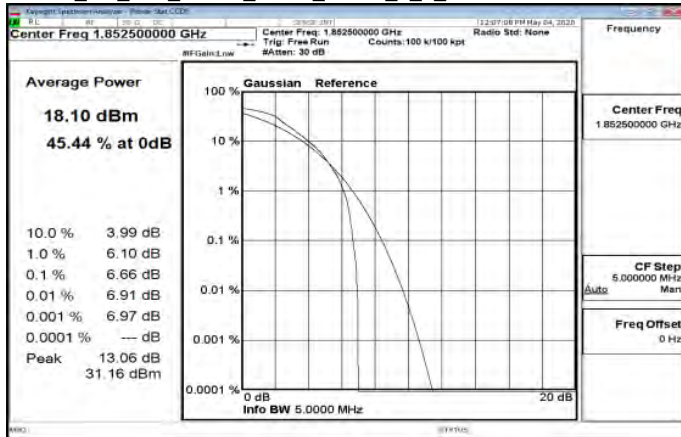
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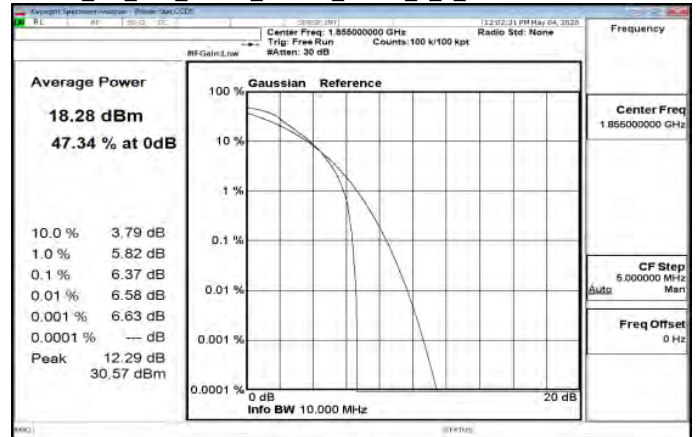
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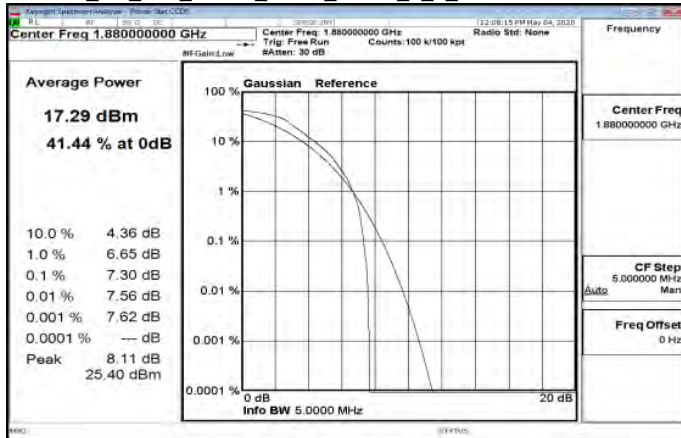
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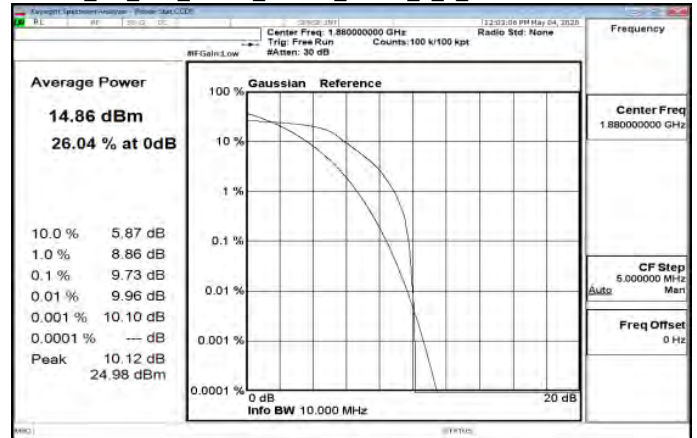
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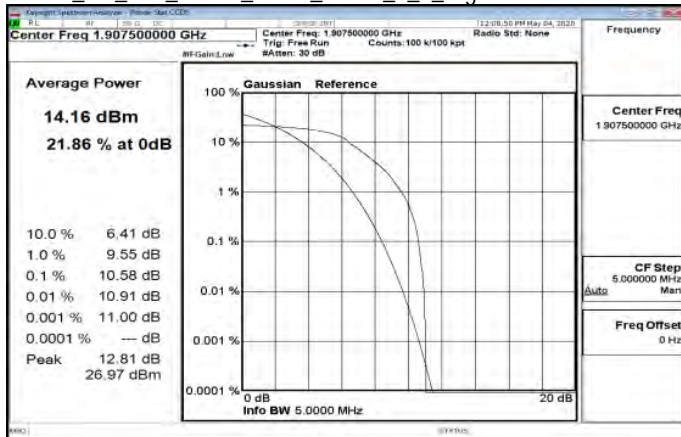
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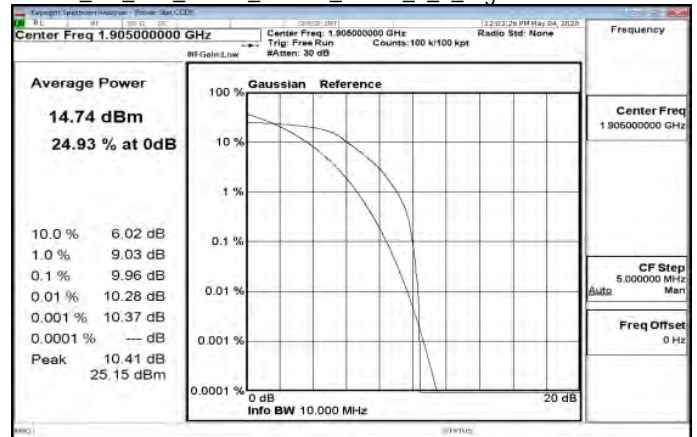
Cat_M1_LTE_Band2_10MHz_QPSK_6_0_MidCH18900-1880



Cat_M1_LTE_Band2_5MHz_QPSK_6_0_HighCH19175-1907.5



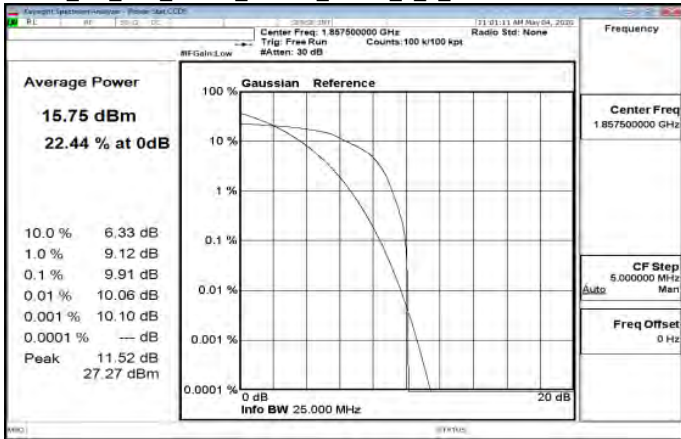
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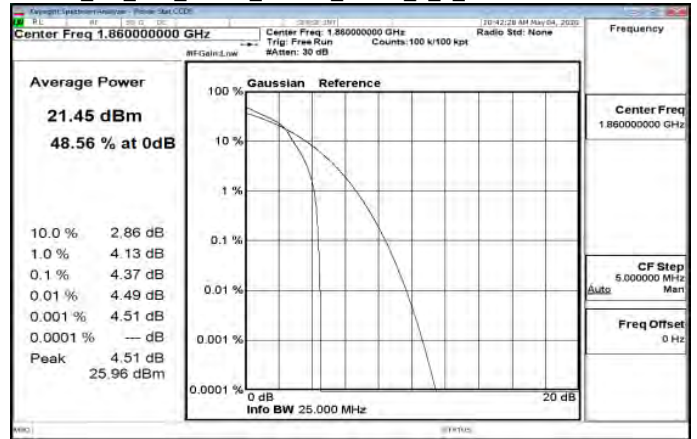
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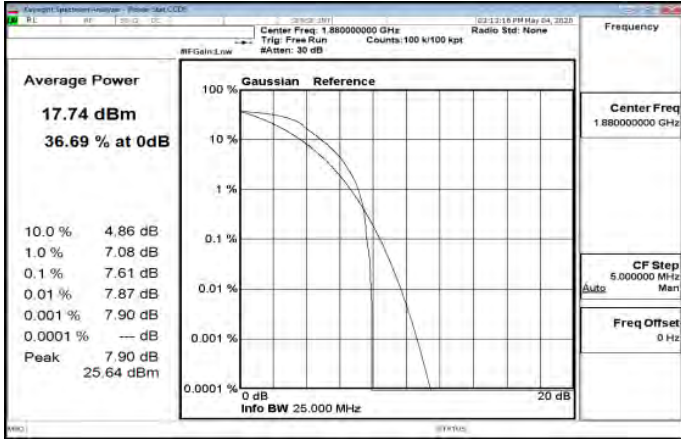
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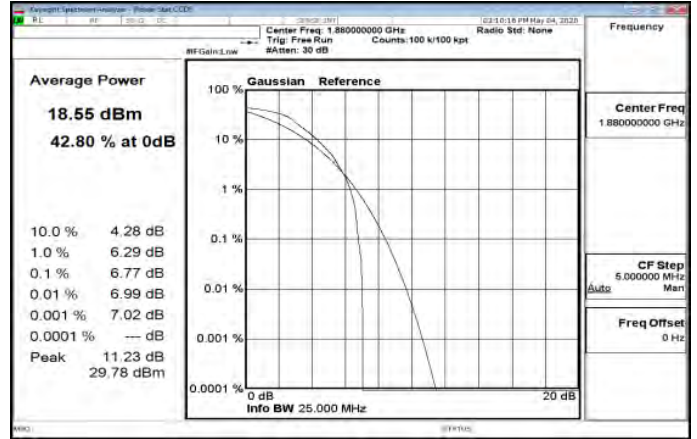
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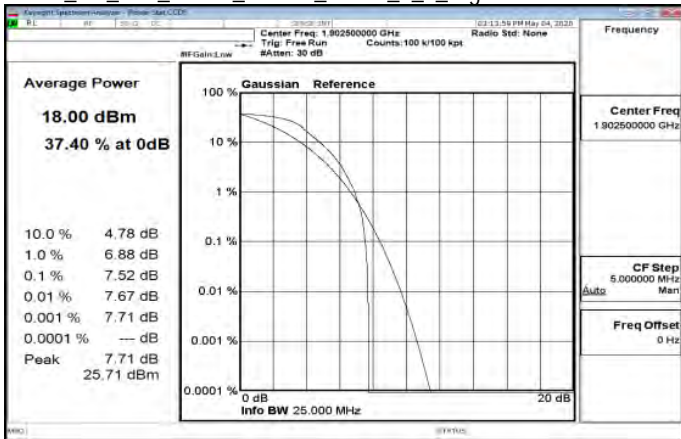
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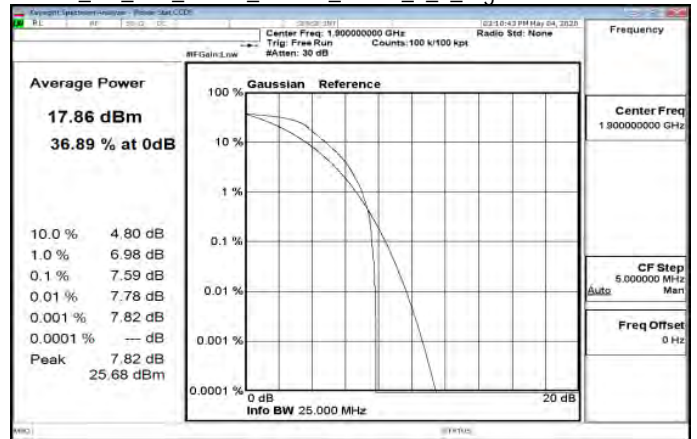
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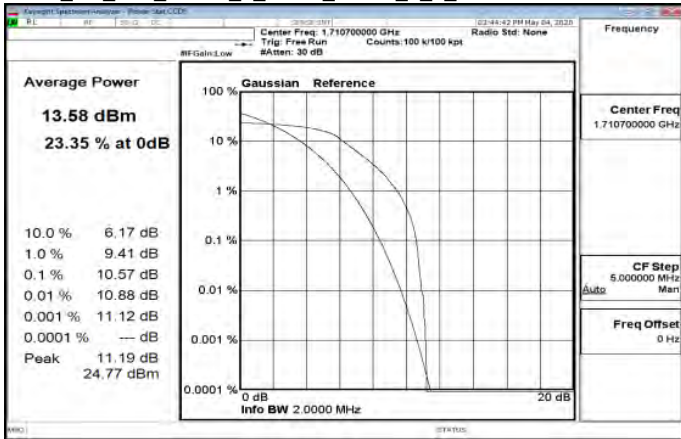
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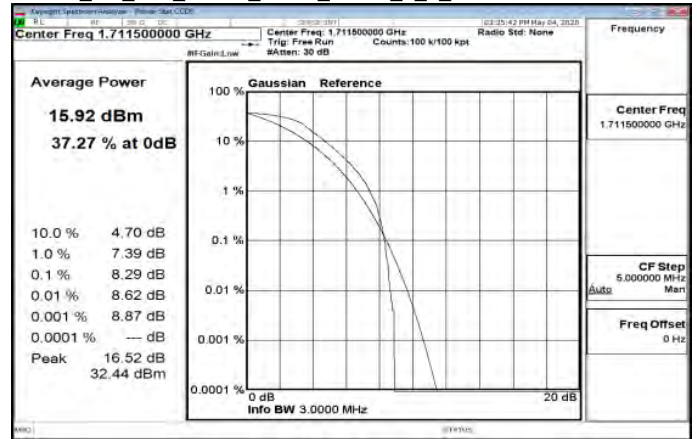
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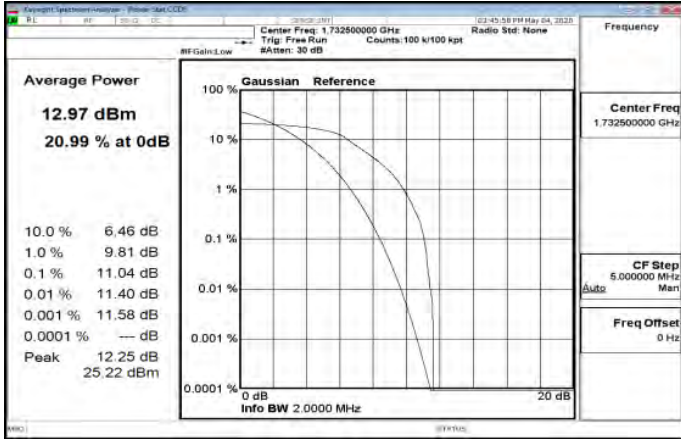
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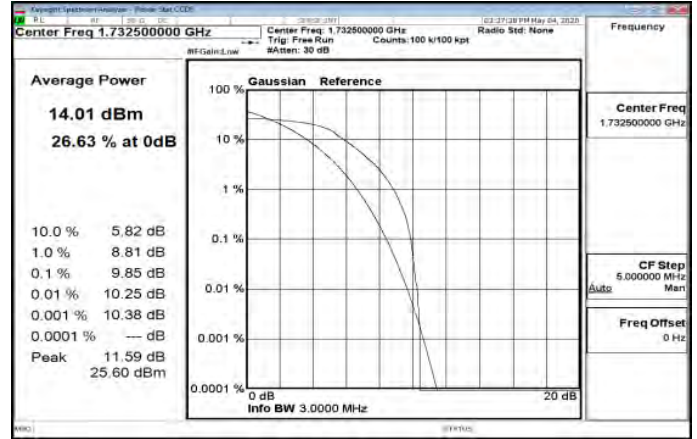
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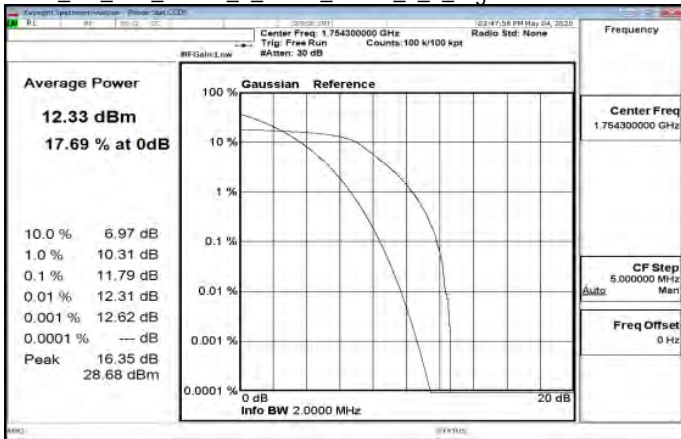
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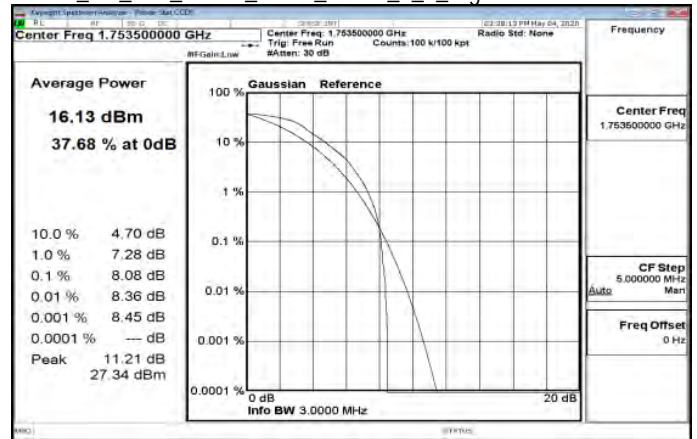
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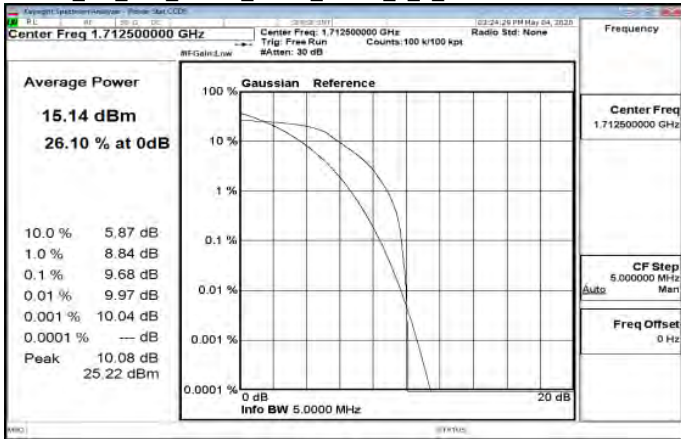
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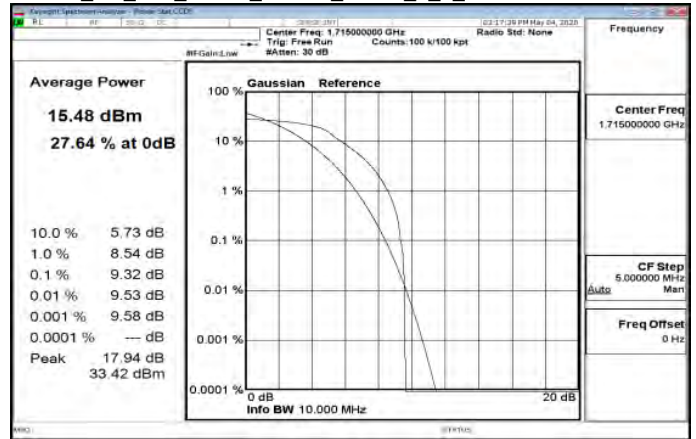
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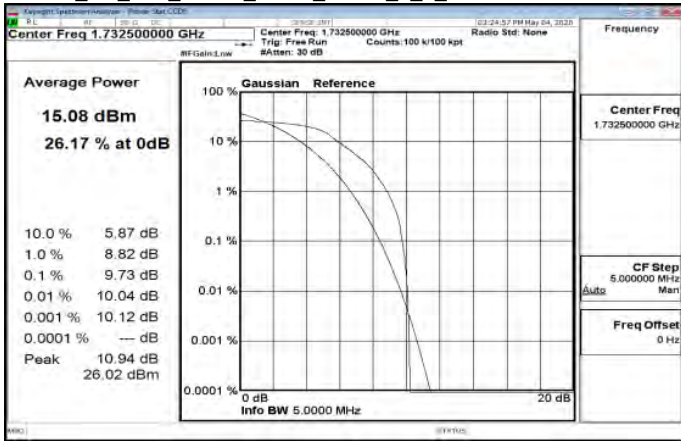
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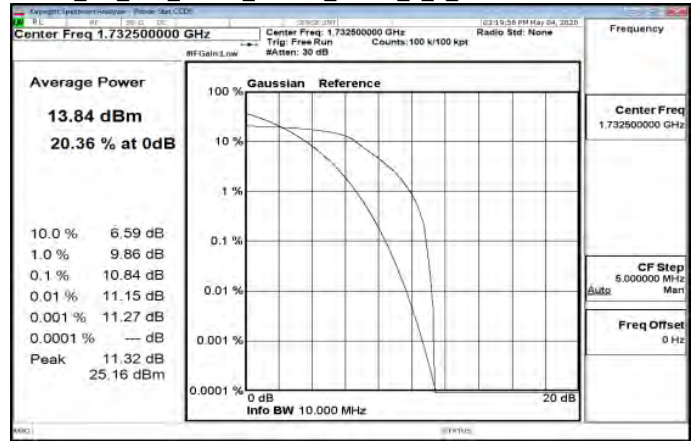
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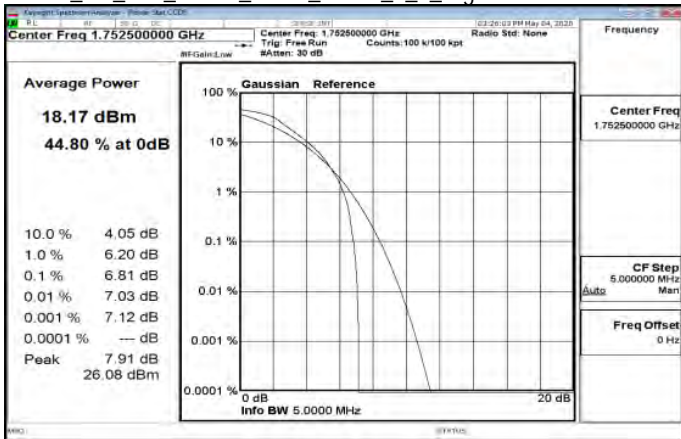
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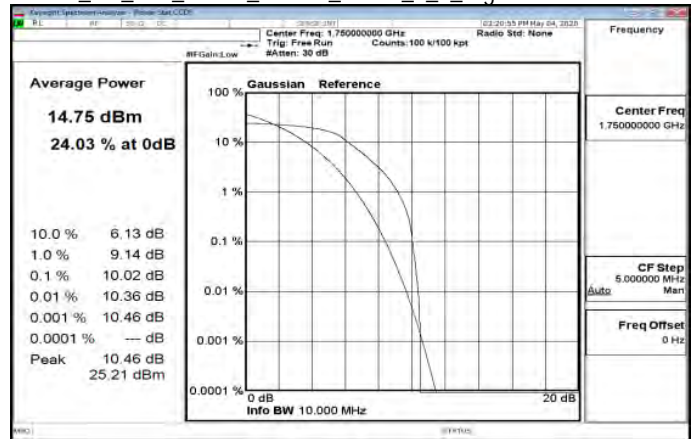
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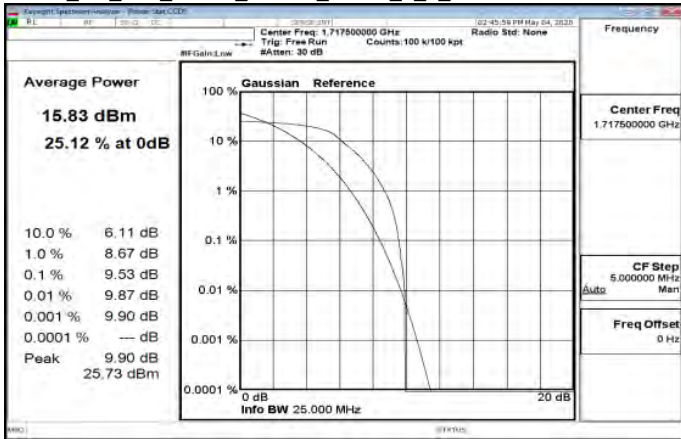
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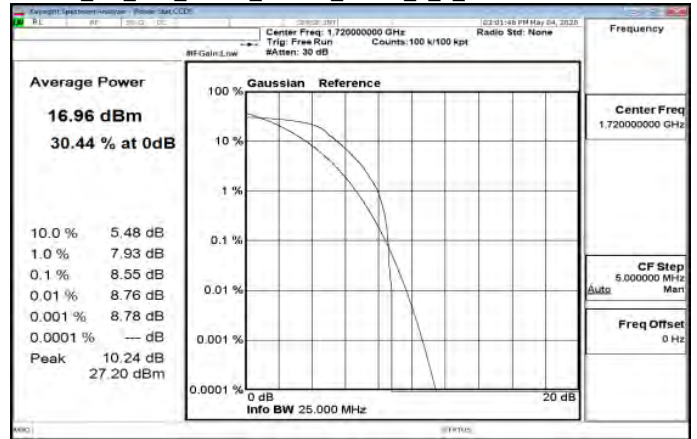
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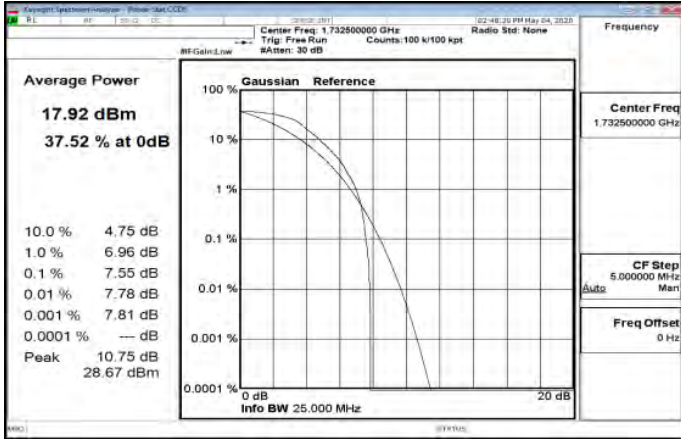
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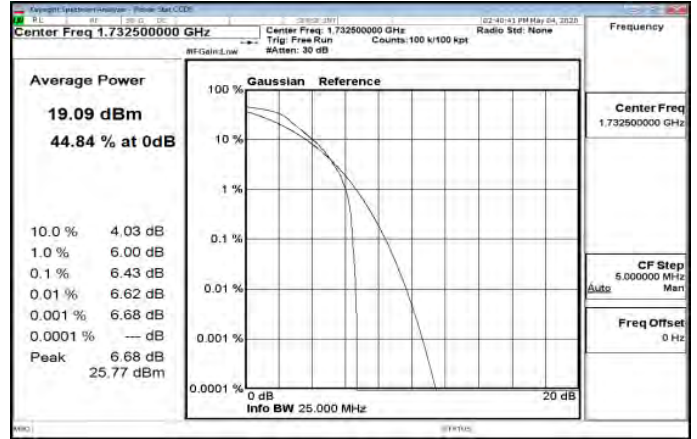
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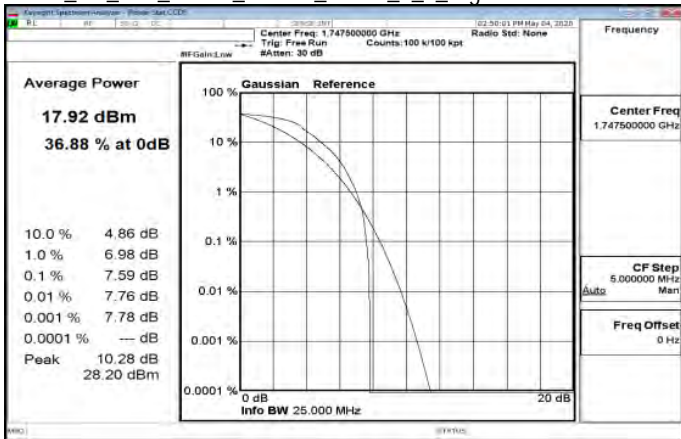
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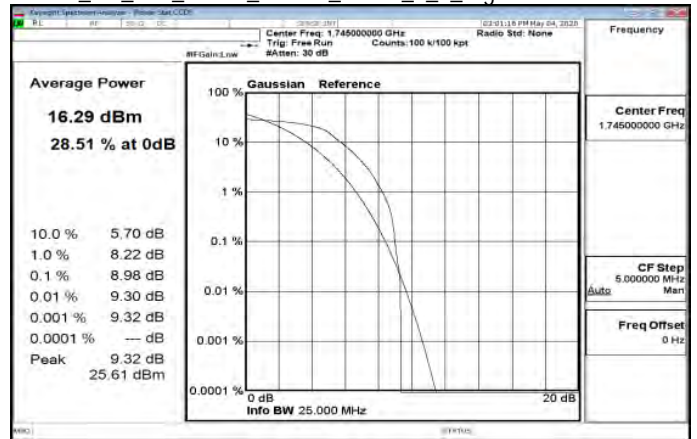
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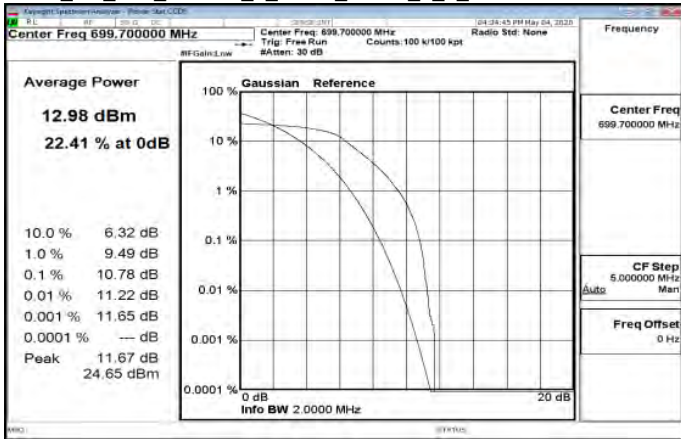
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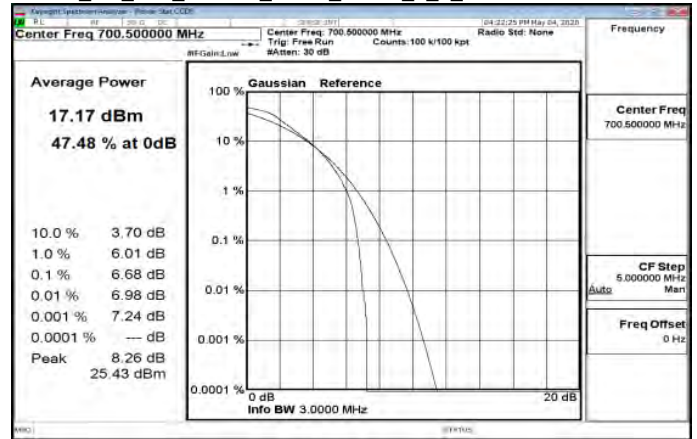
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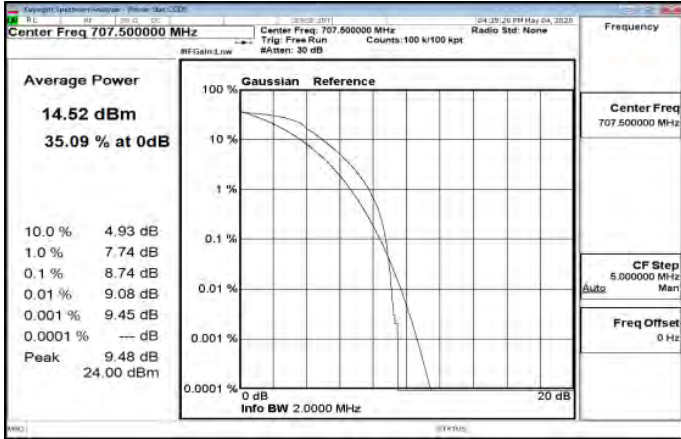
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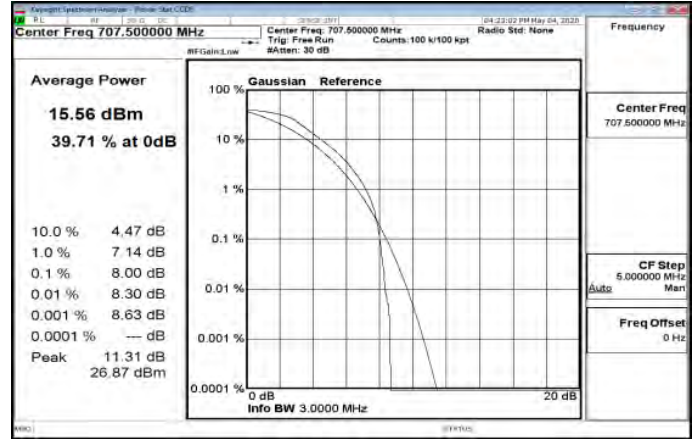
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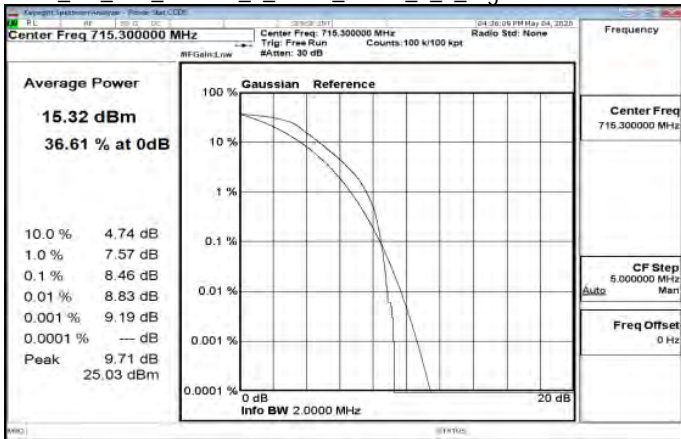
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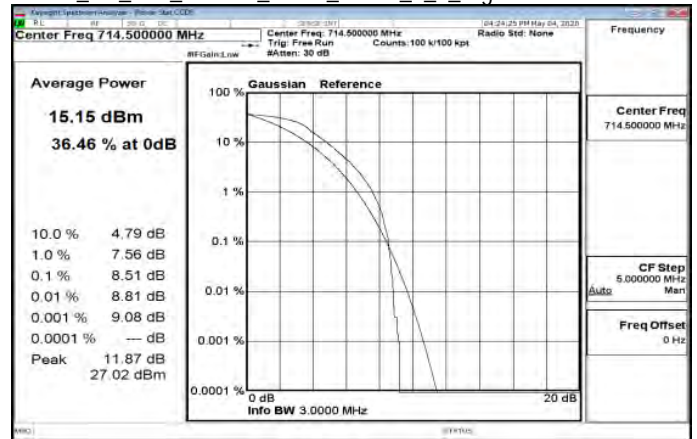
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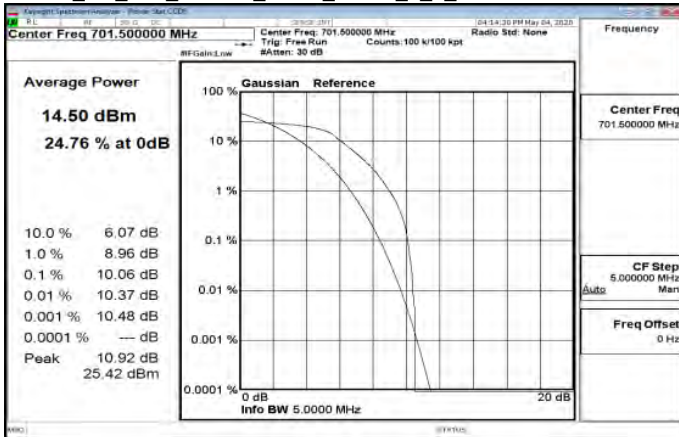


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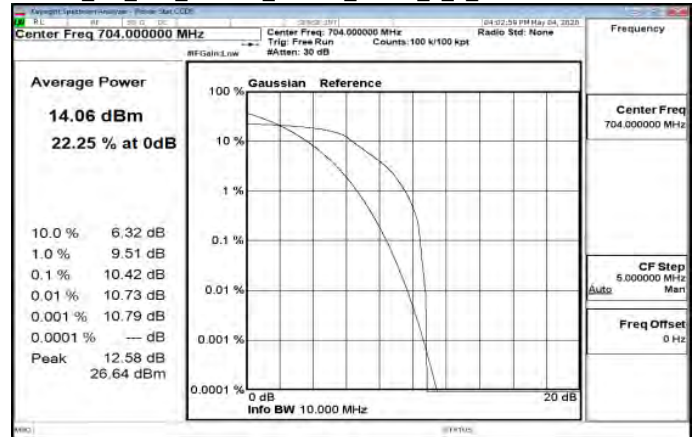
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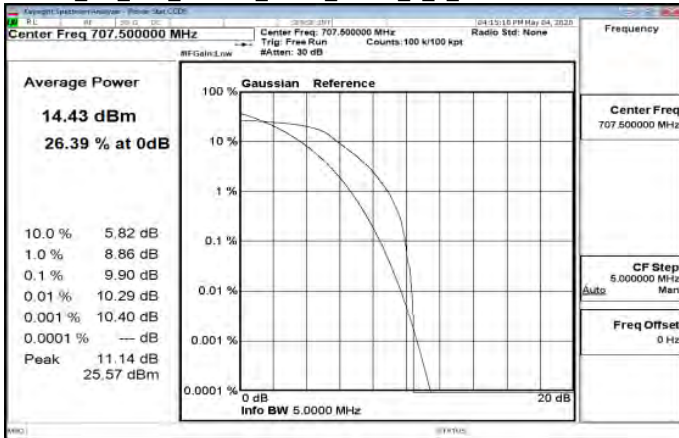
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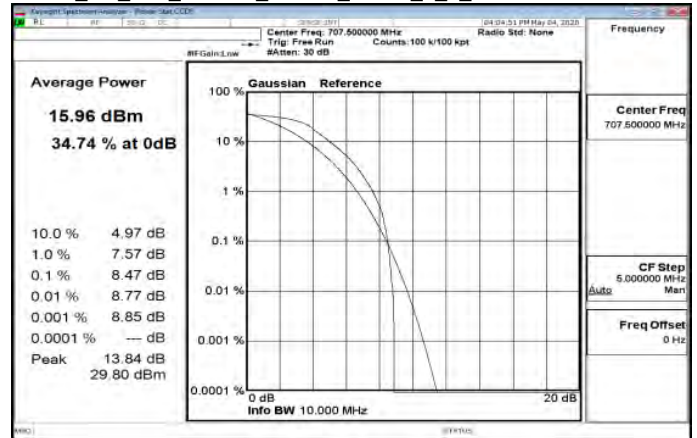
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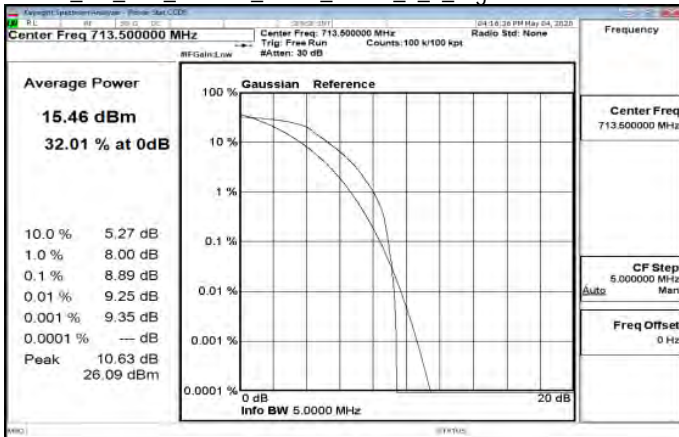
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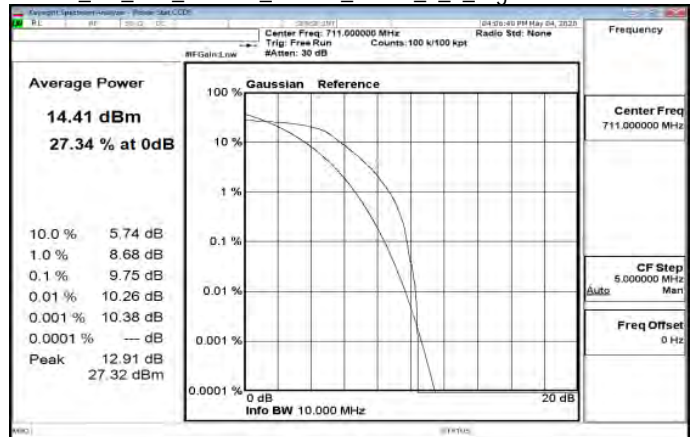
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Cat_M1_LTE_Band12_5MHz_QPSK_6_0_HighCH23155-713.5



Cat_M1_LTE_Band12_10MHz_QPSK_6_0_HighCH23130-711



~ End of Report ~

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