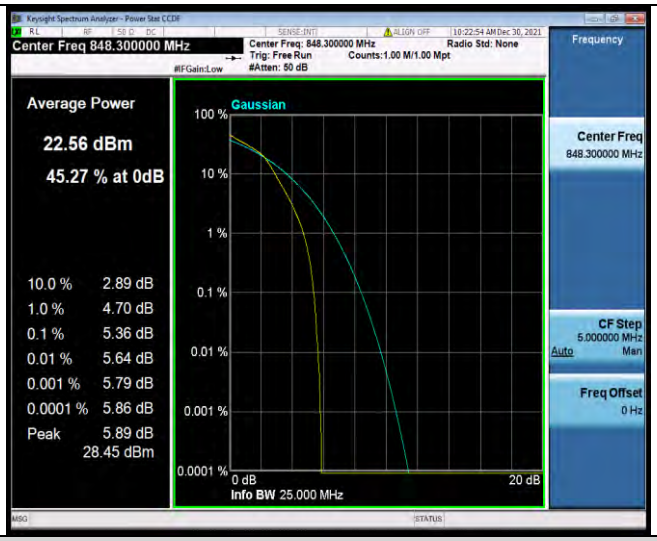

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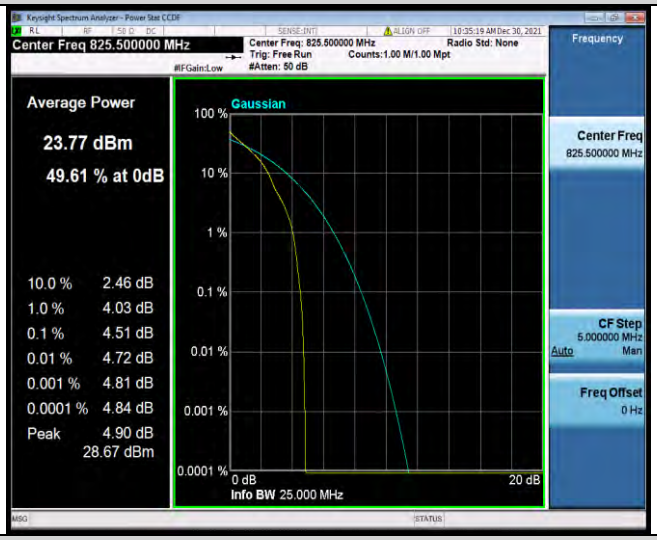

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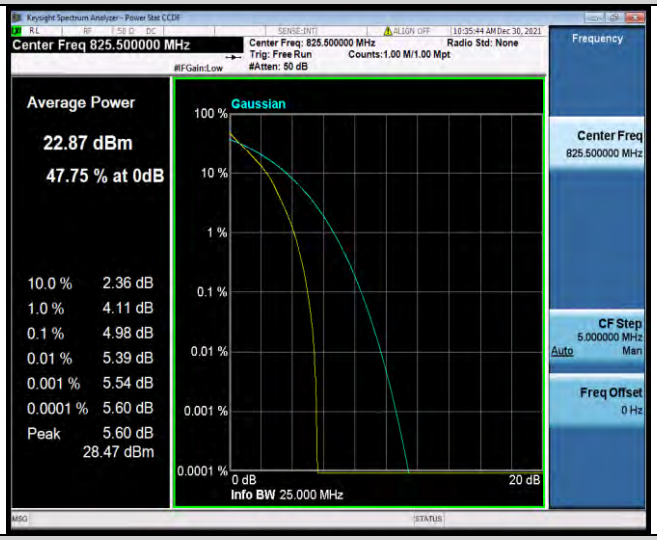

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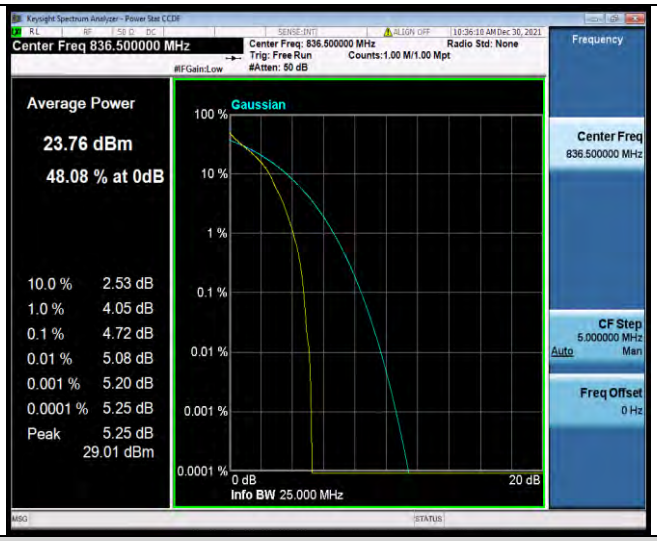

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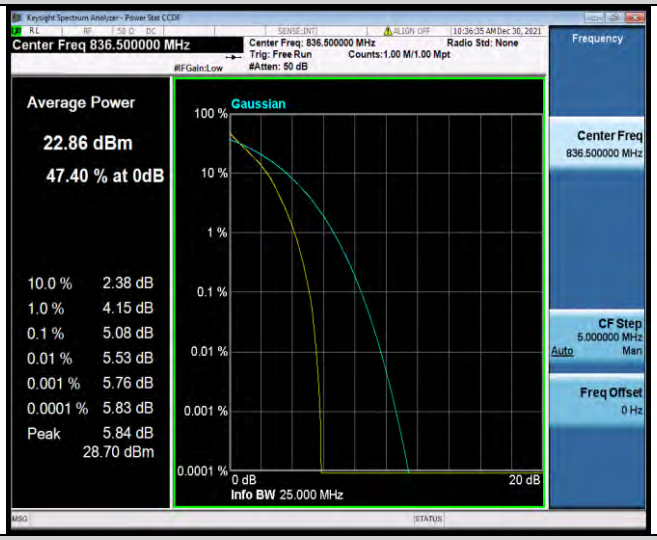

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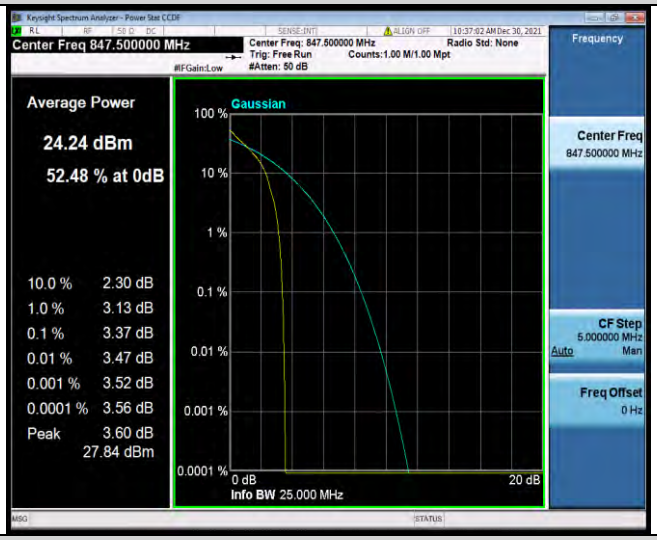

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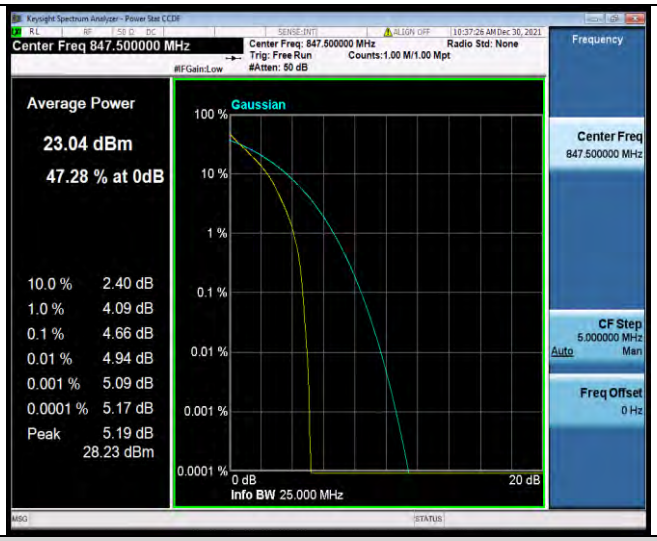

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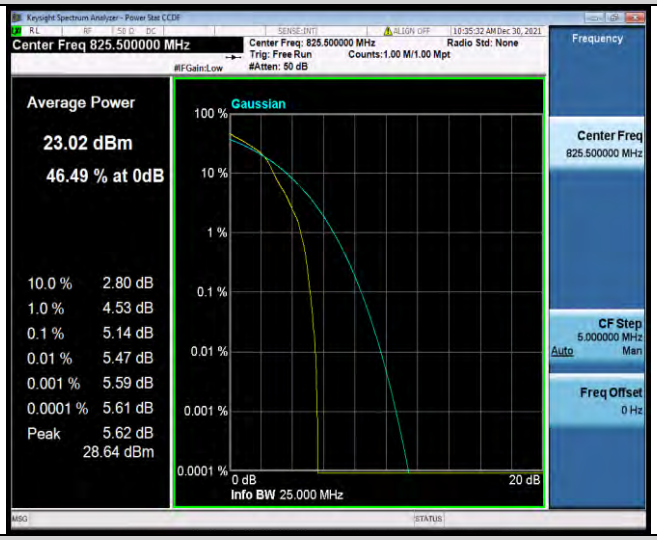

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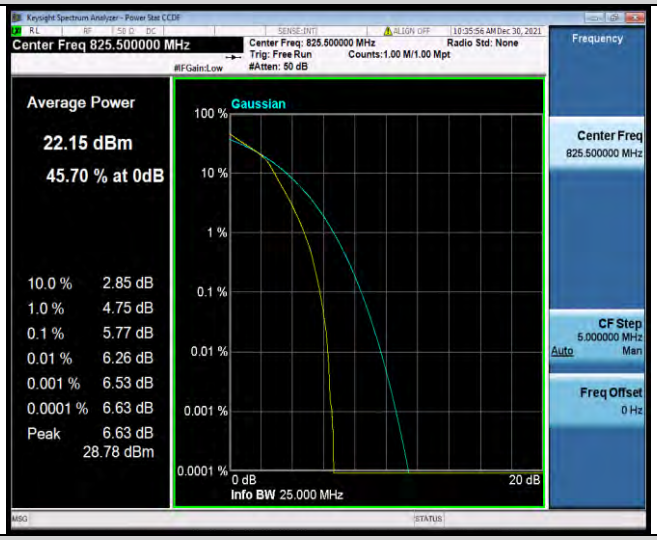

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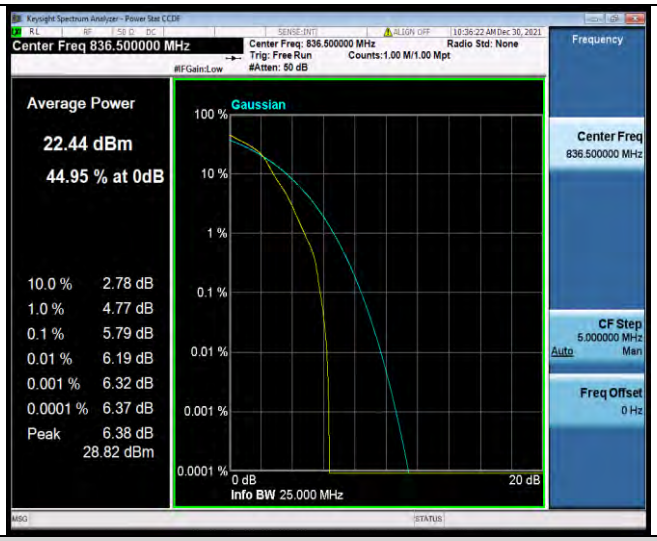

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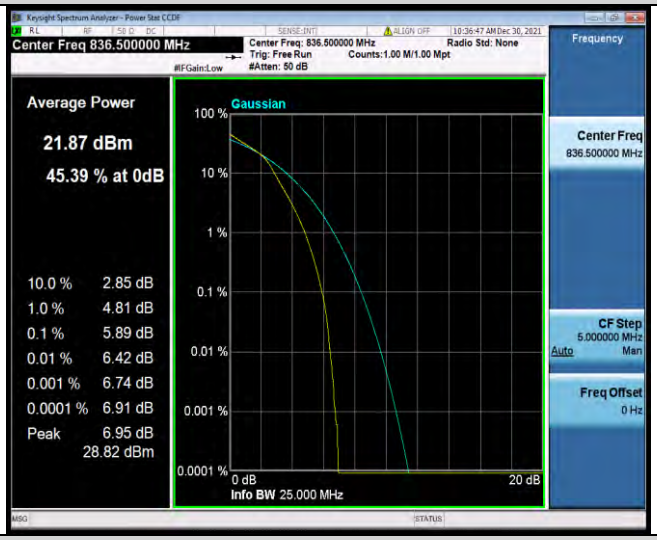

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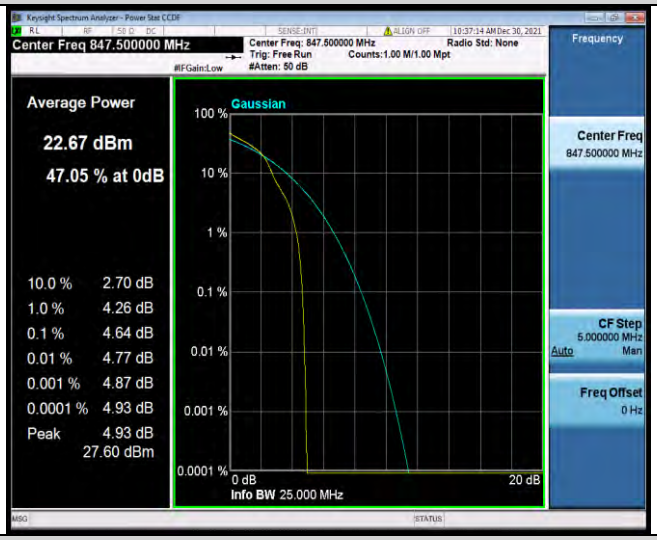

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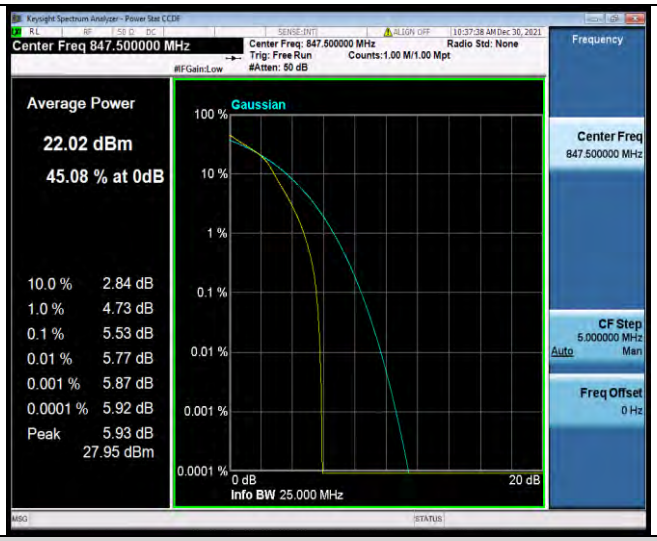

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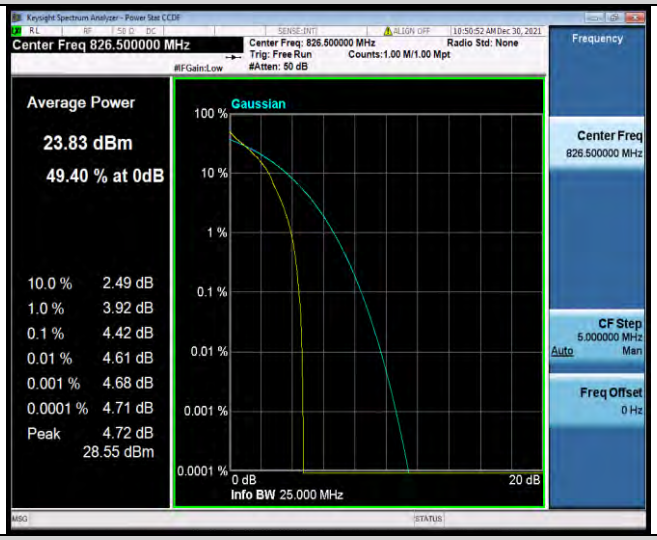

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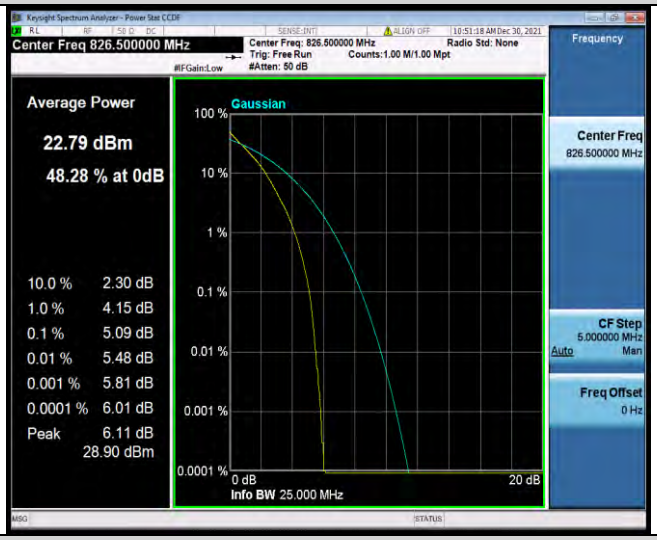

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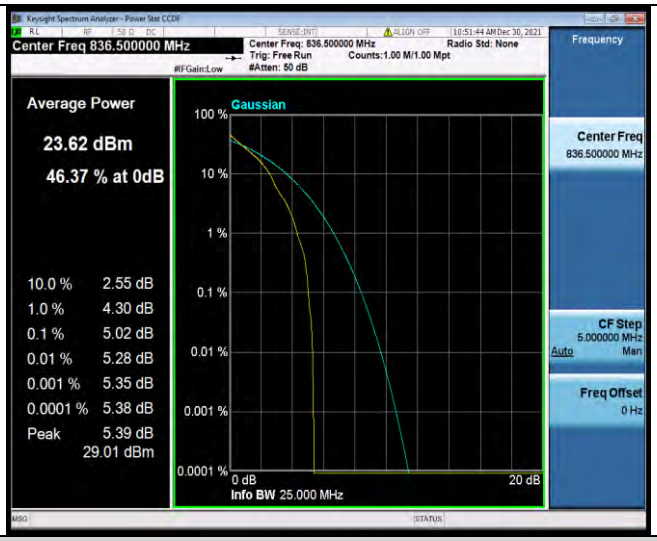

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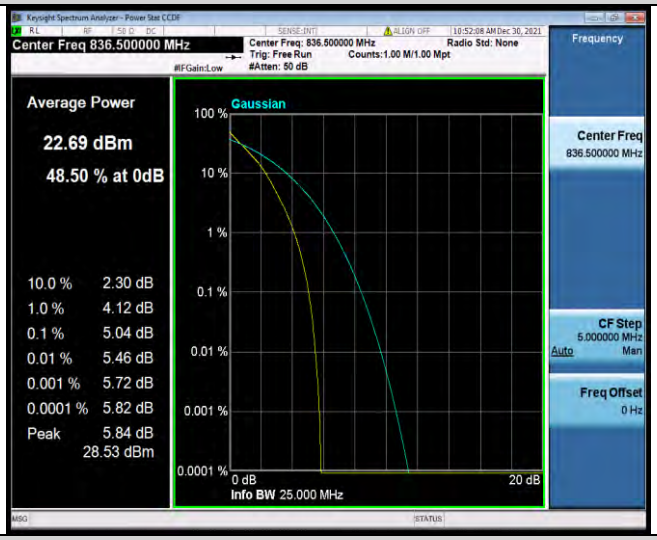

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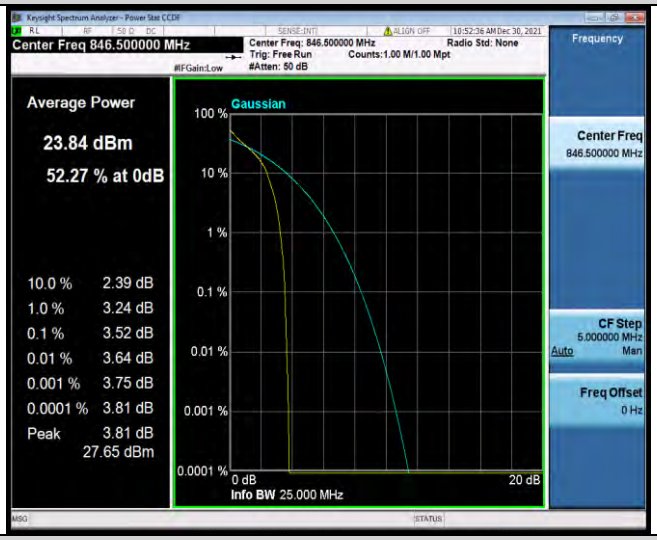

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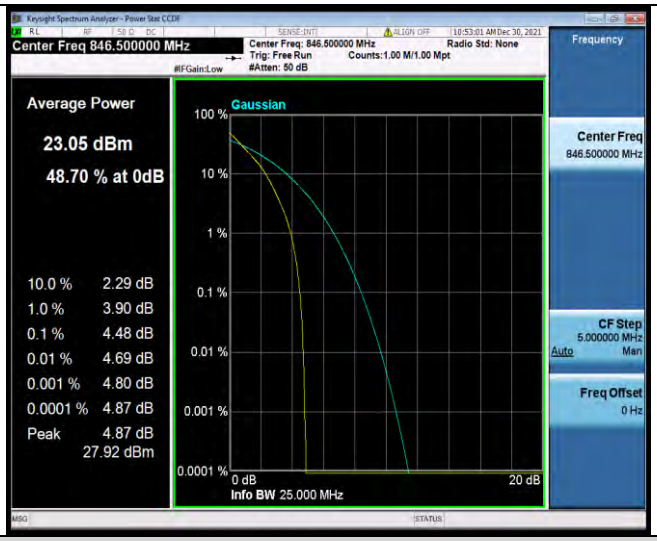

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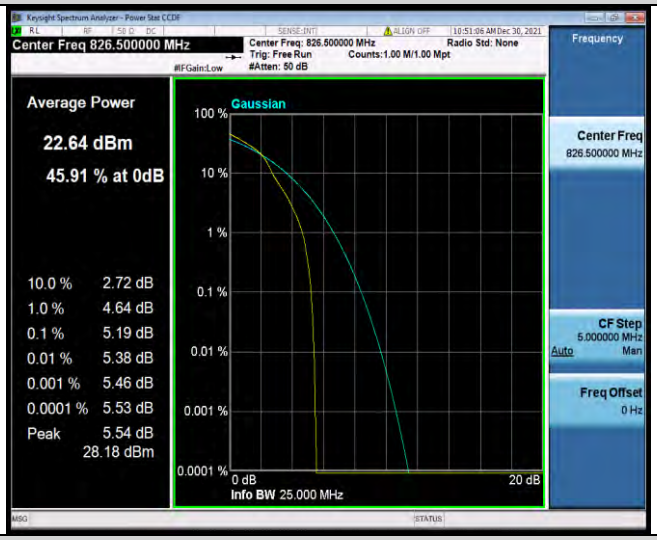

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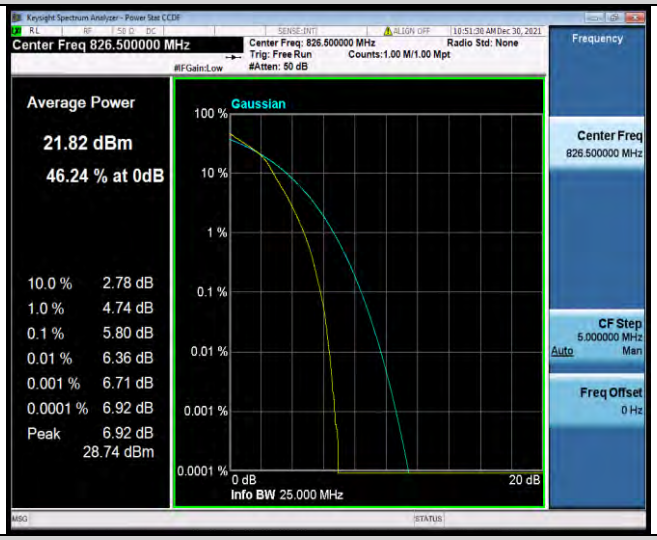

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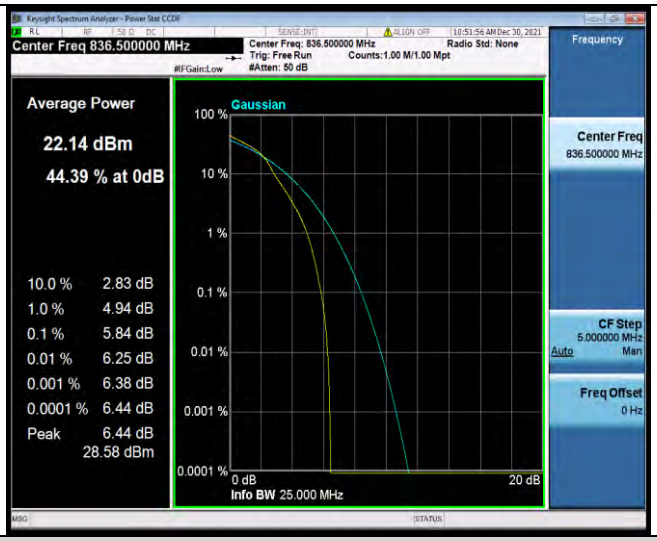

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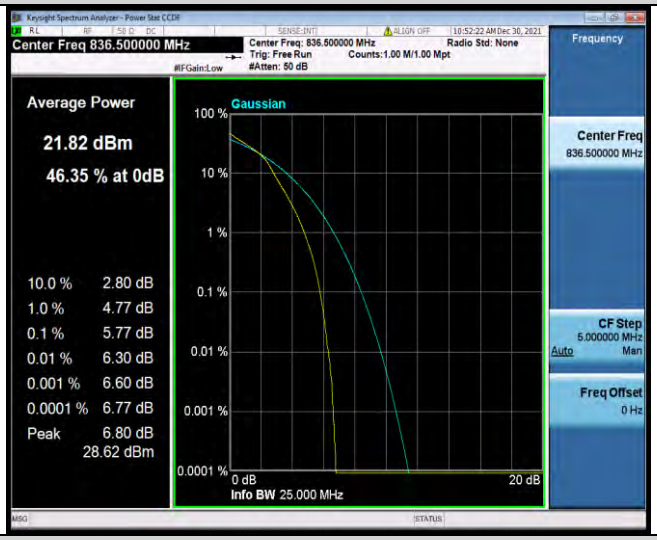

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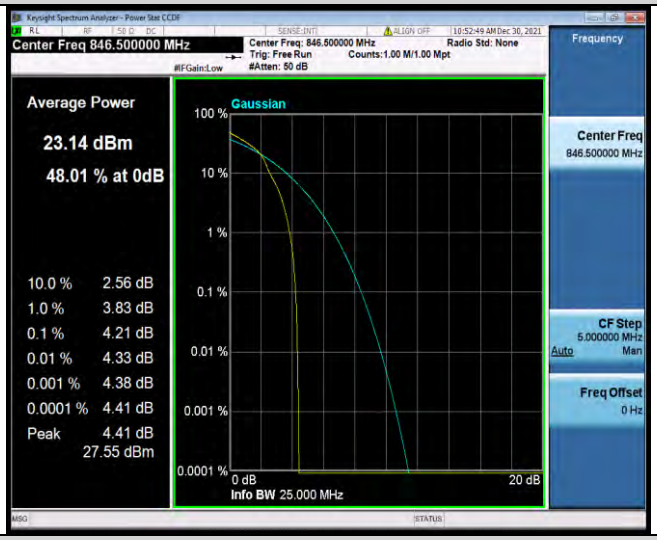

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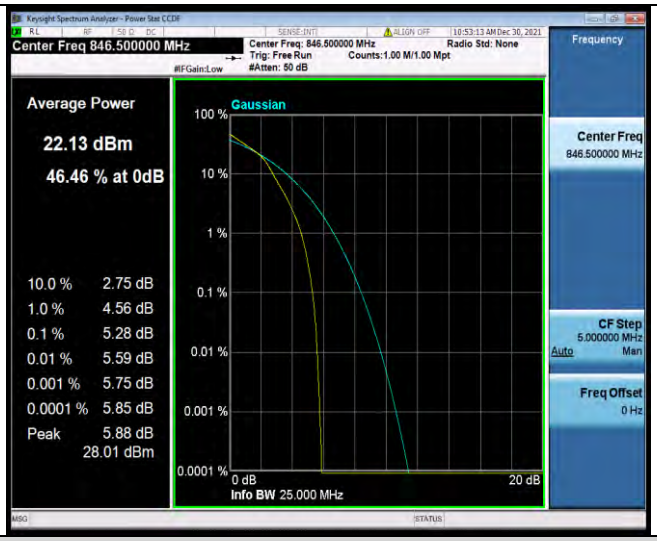

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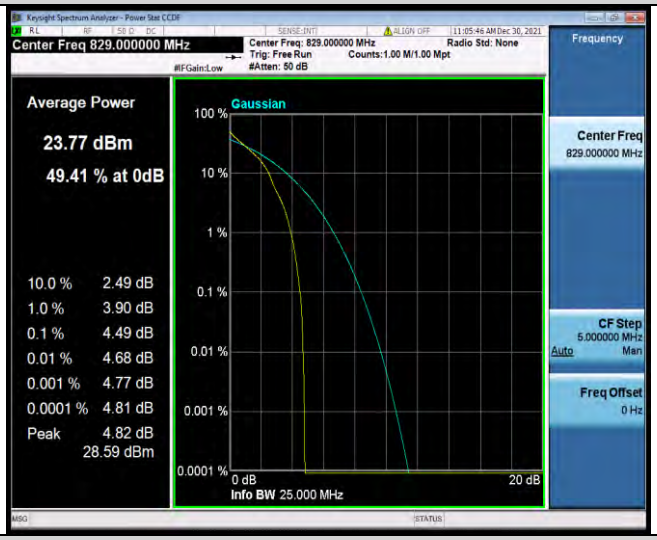

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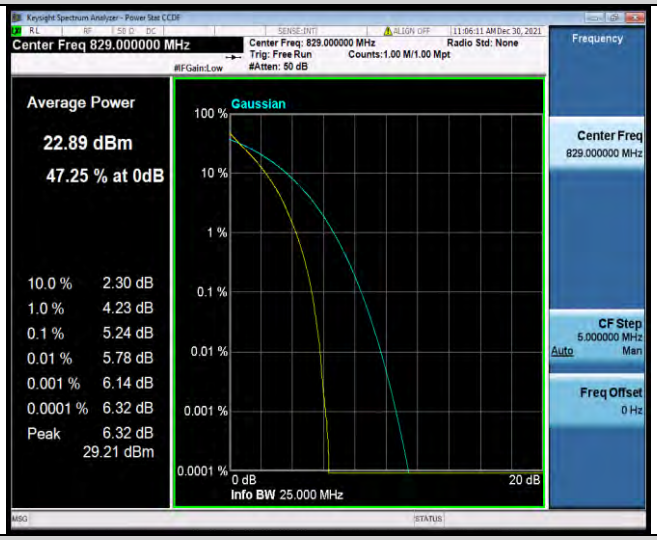

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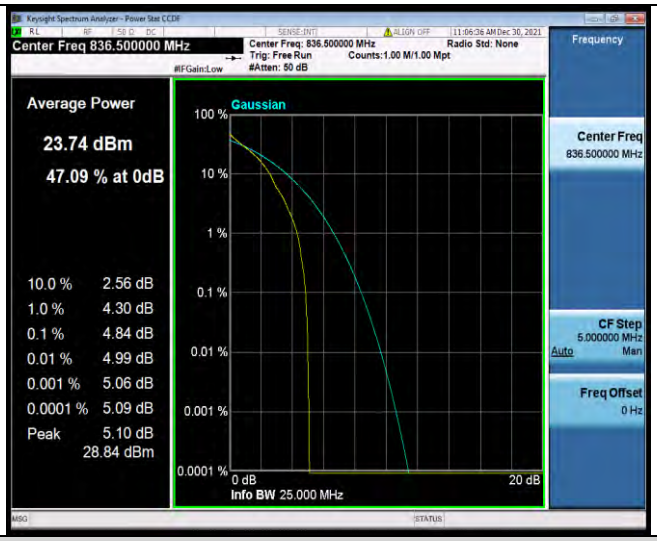

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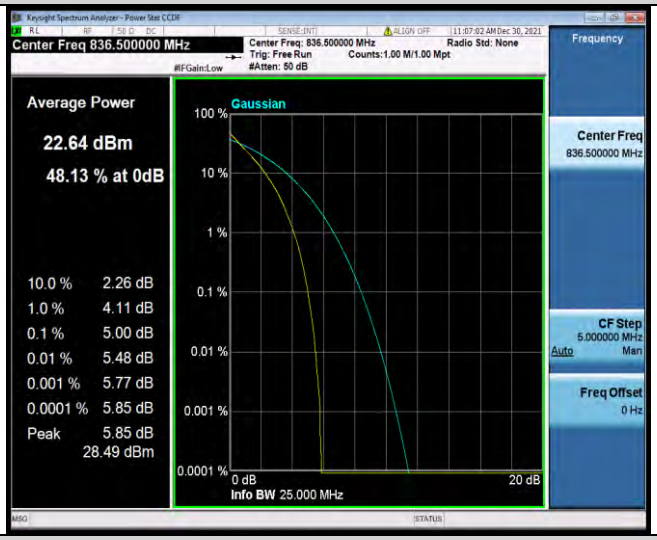

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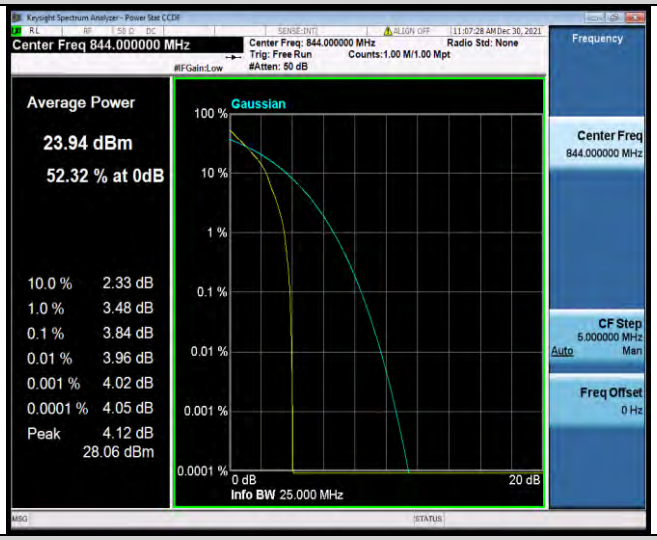

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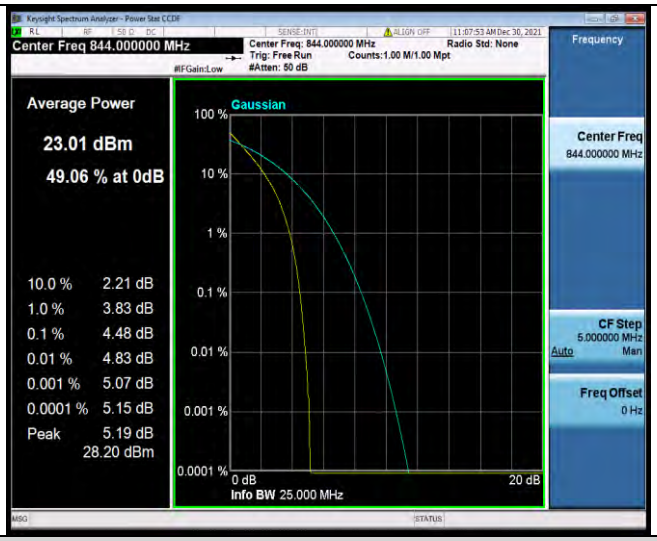

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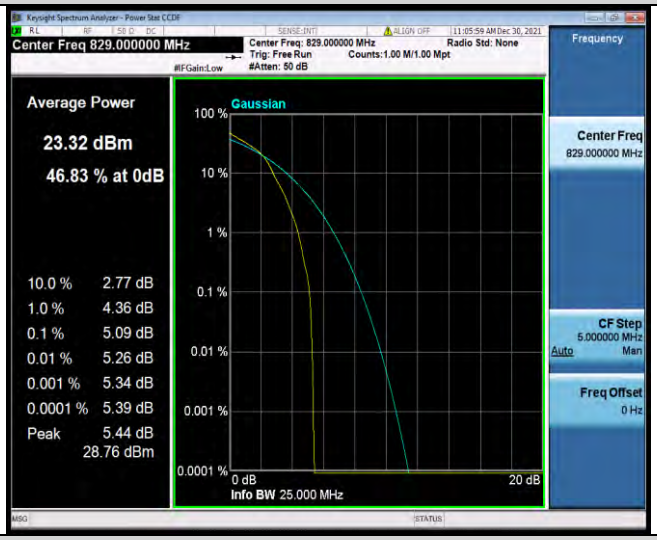

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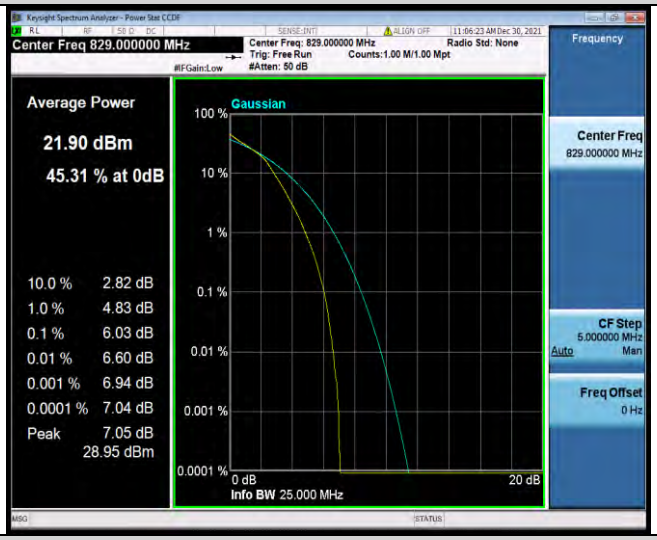

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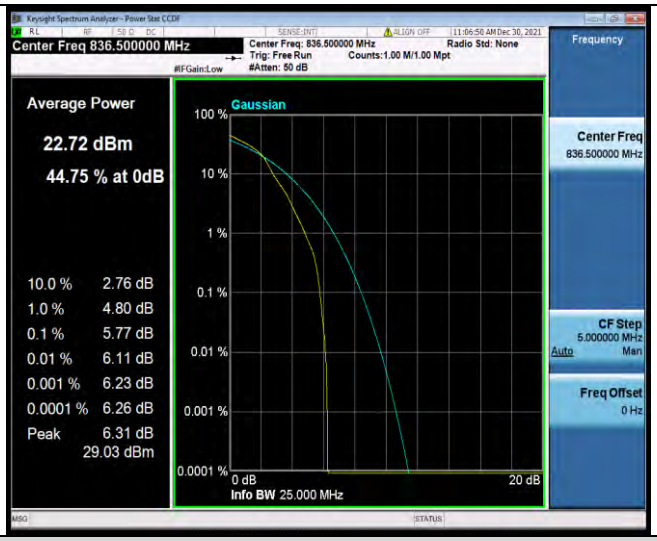

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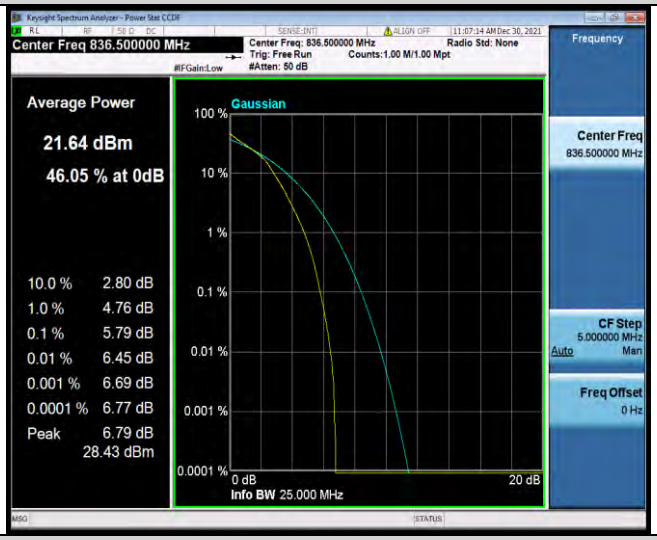

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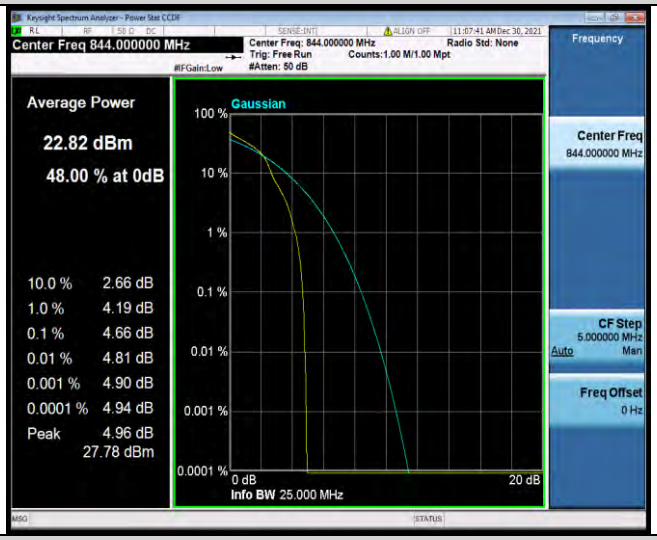

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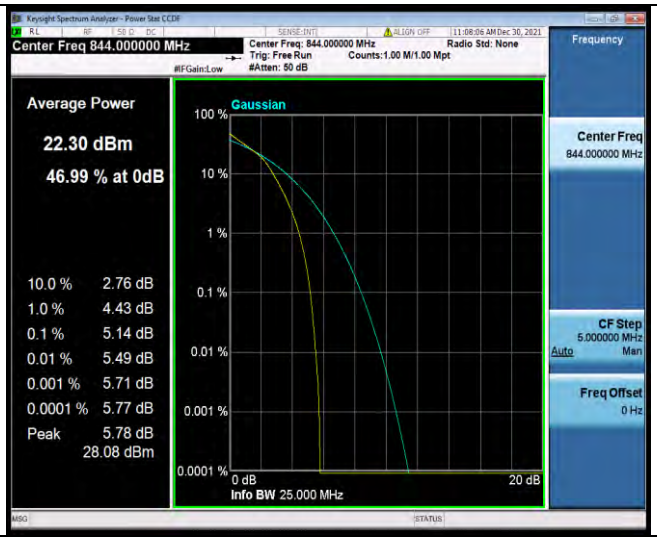

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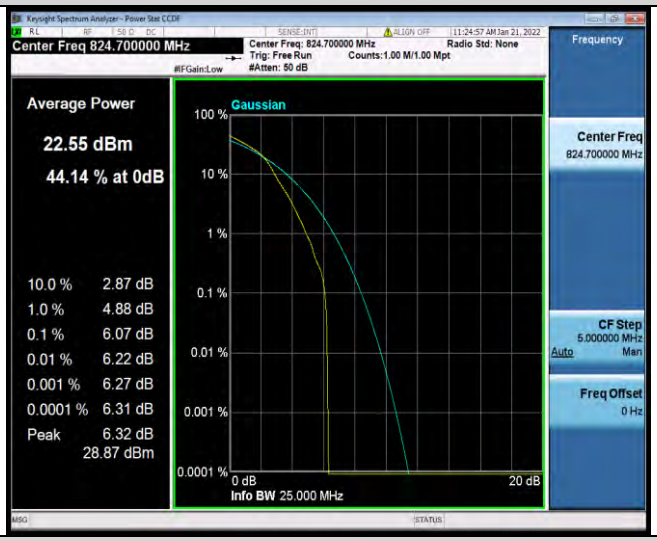

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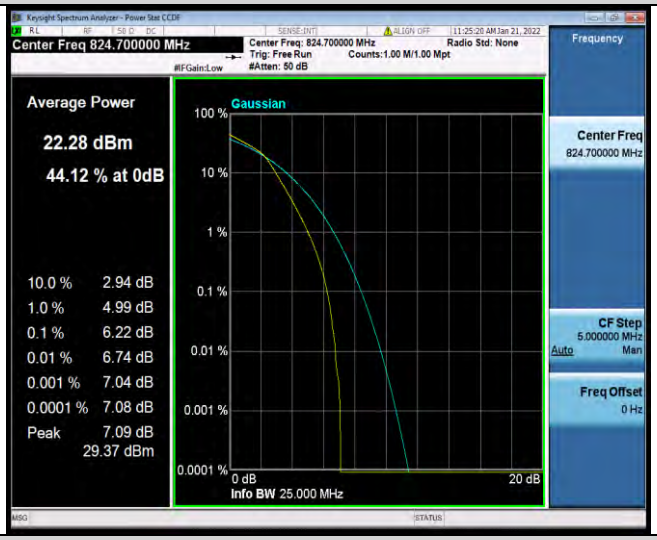

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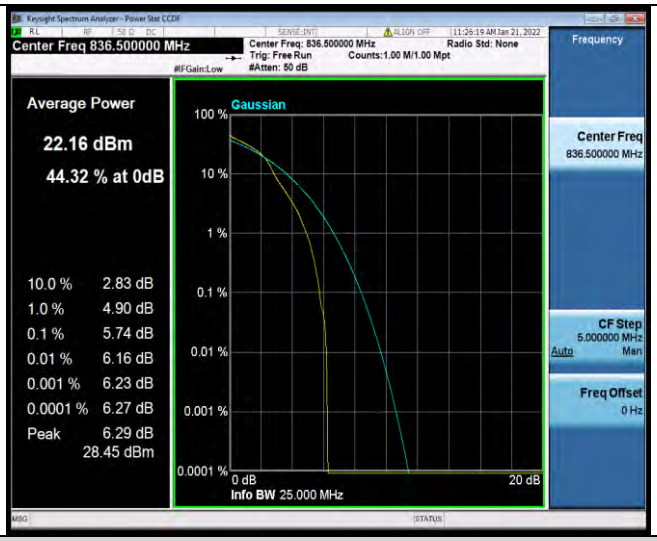

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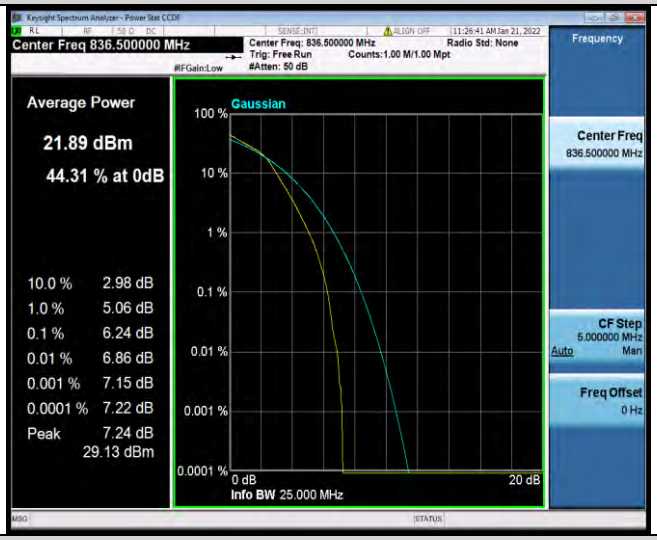

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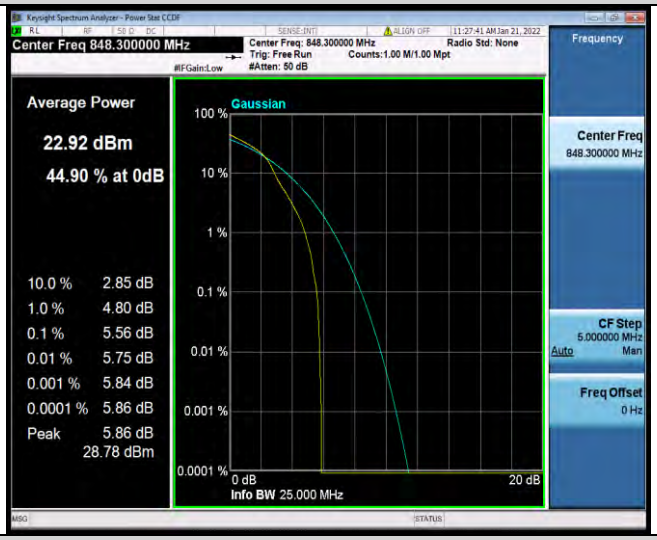

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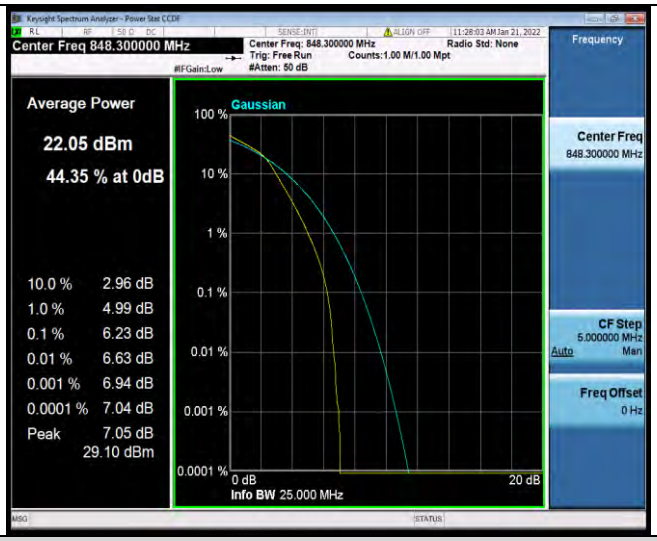

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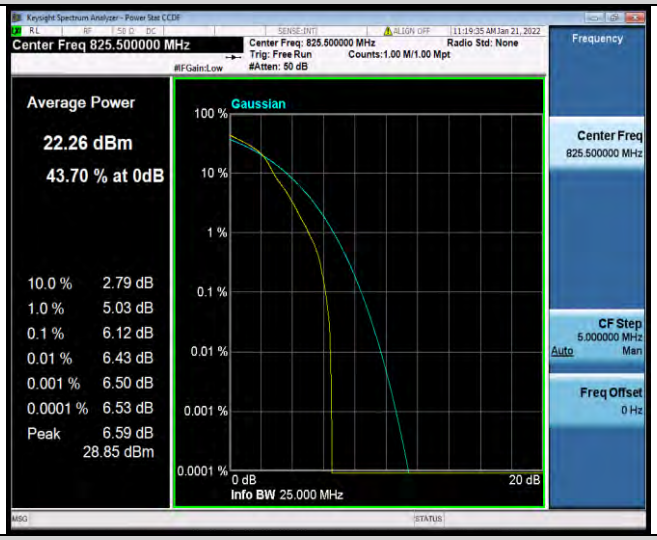

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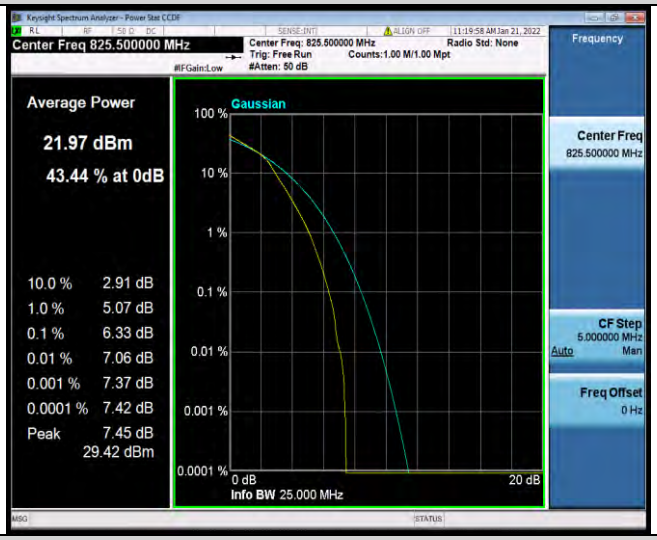

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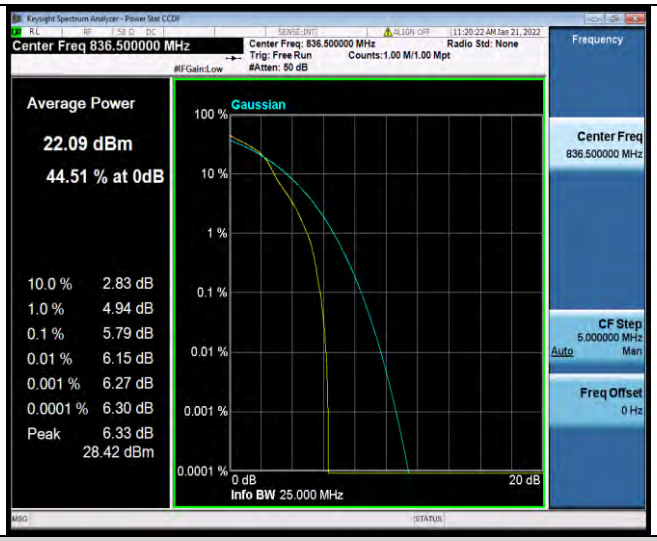

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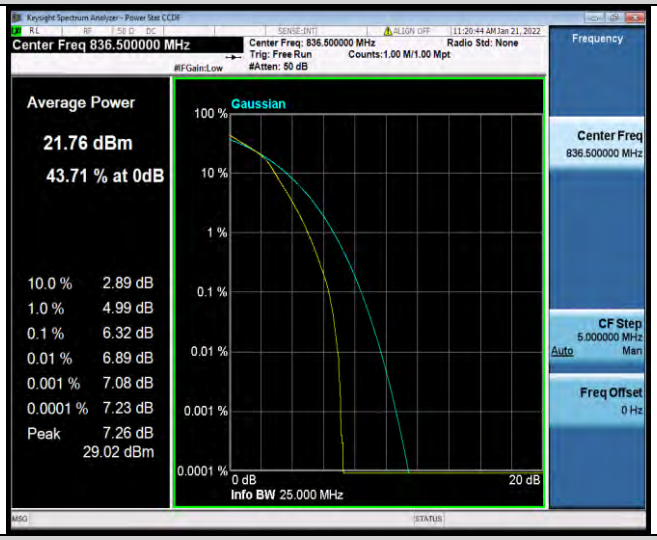

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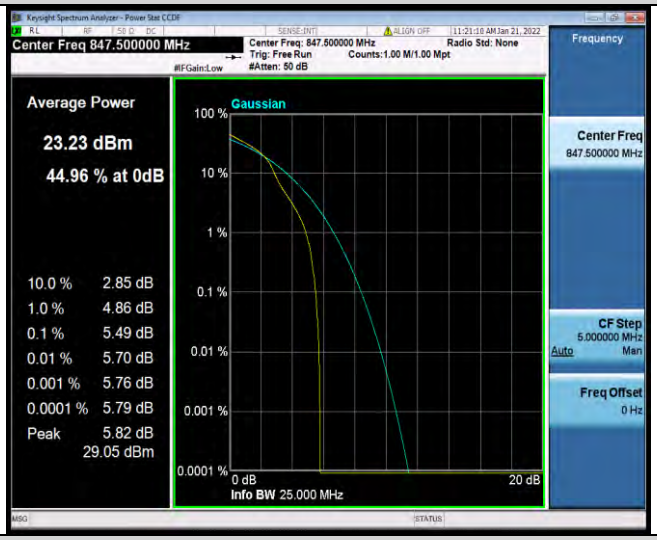

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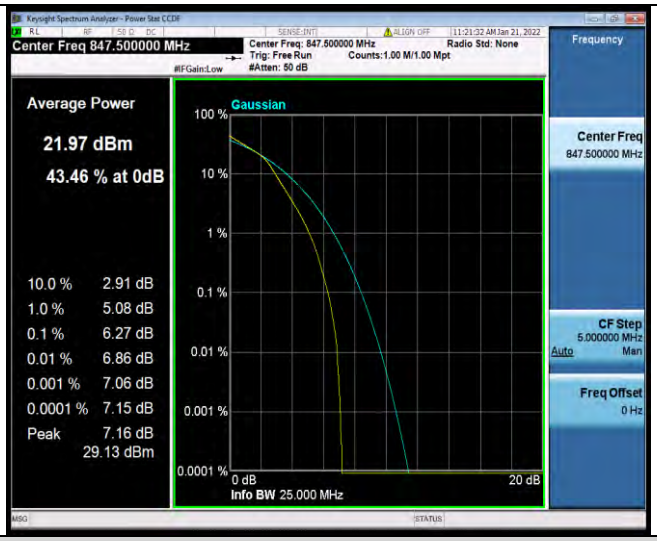

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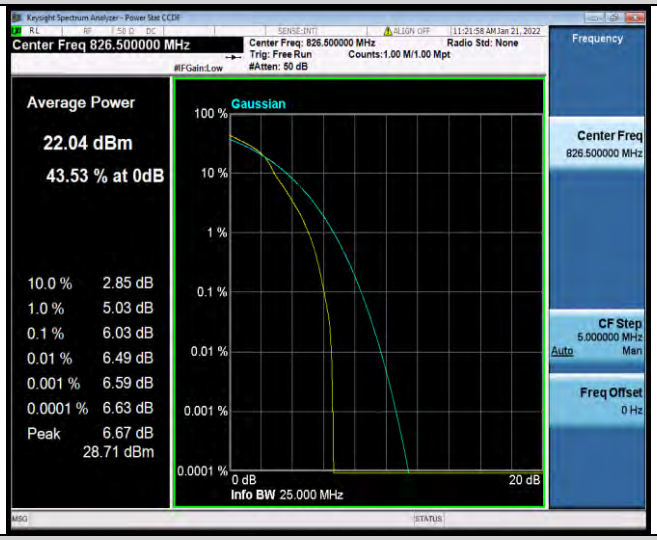

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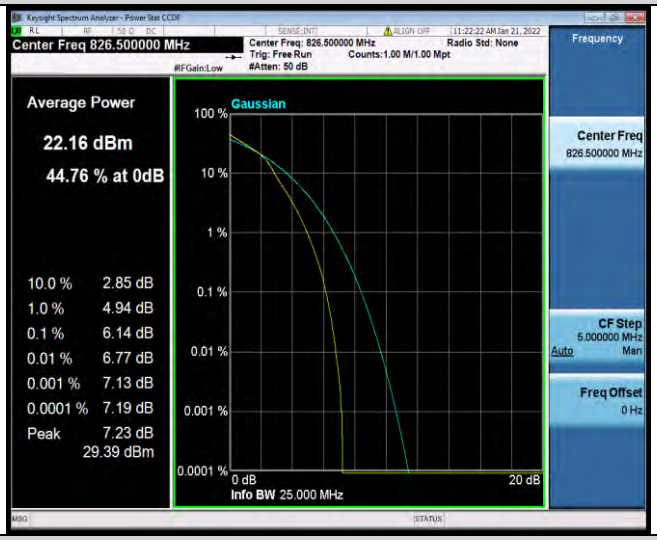
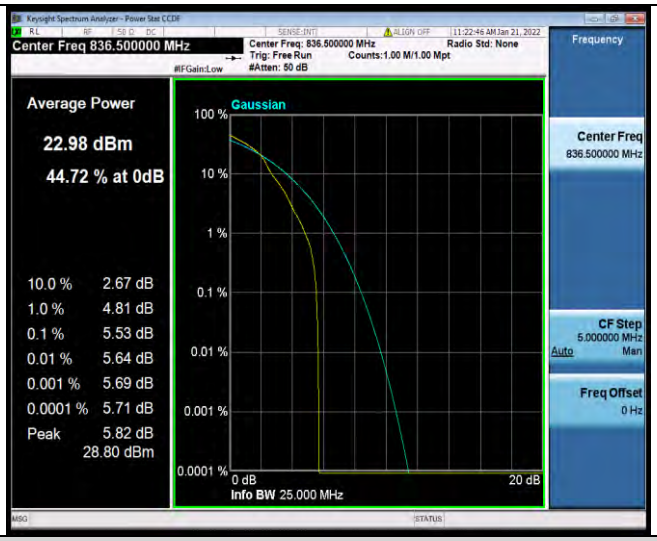
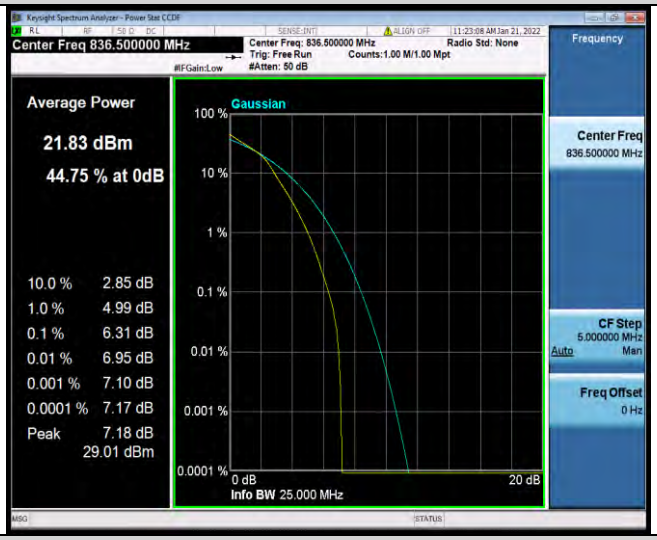


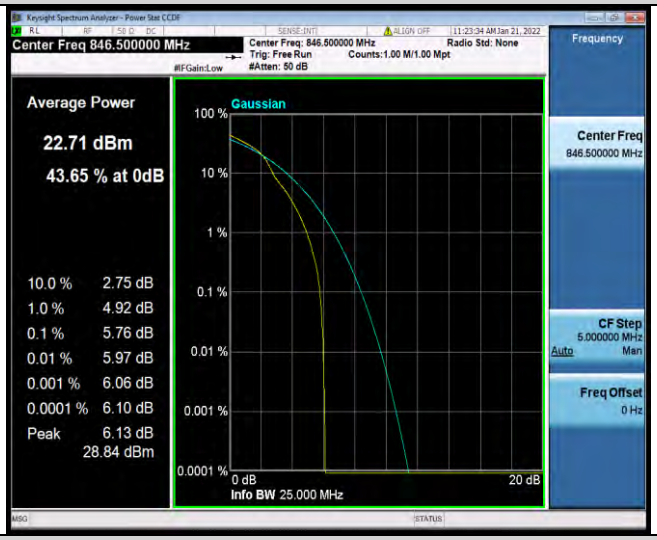
Band5-5MHz-64QAM-20525-1RB#0



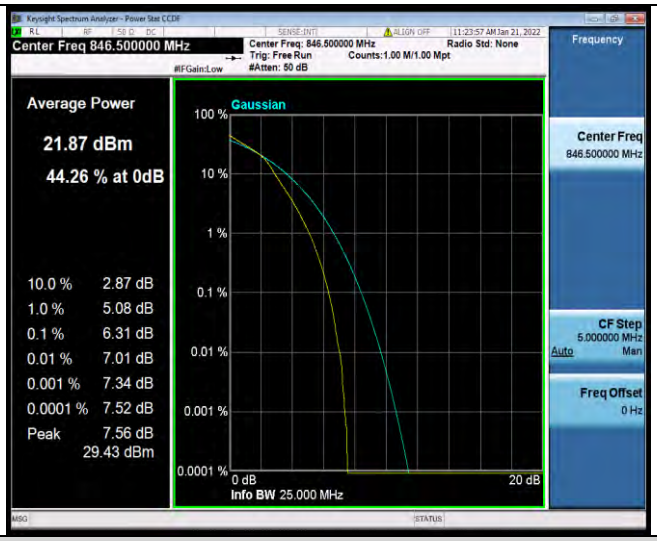
Band5-5MHz-64QAM-20525-25RB#0



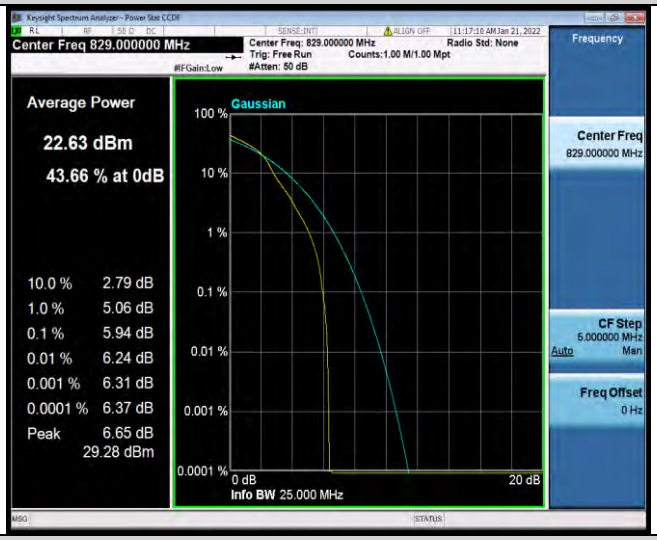
Band5-5MHz-64QAM-20625-1RB#0



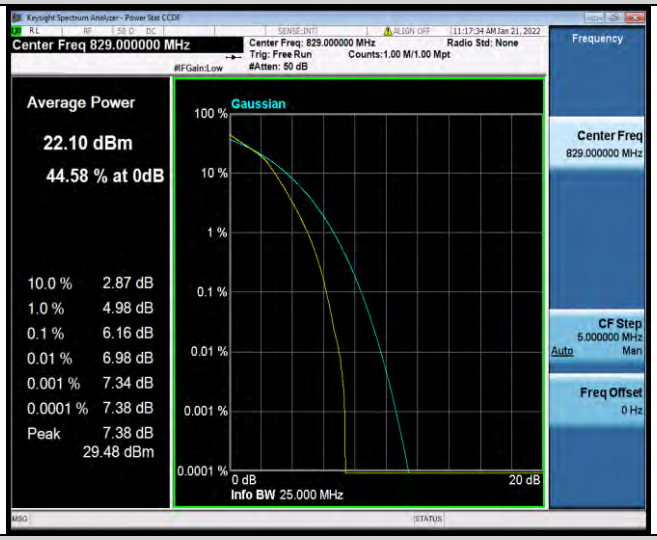
Band5-5MHz-64QAM-20625-25RB#0



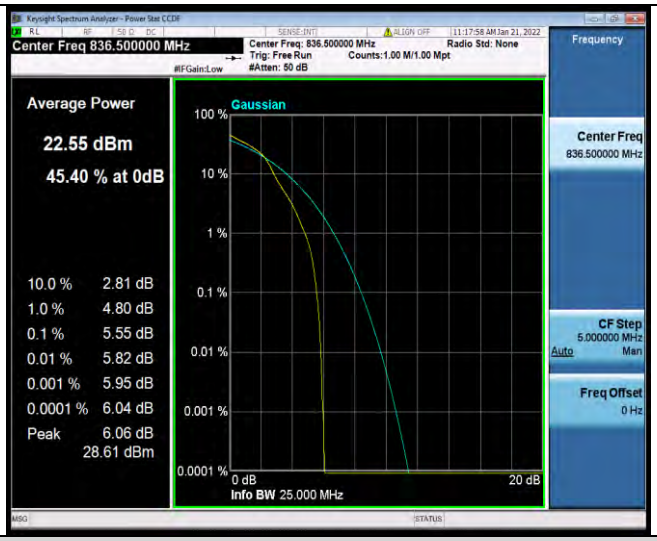
Band5-10MHz-64QAM-20450-1RB#0



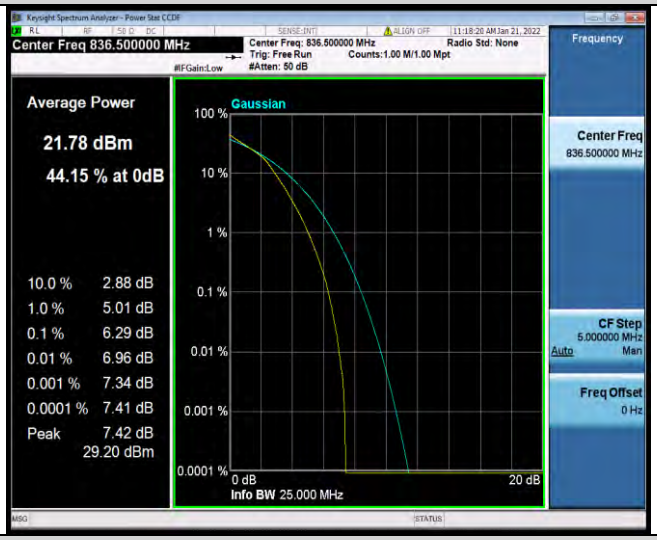
Band5-10MHz-64QAM-20450-50RB#0



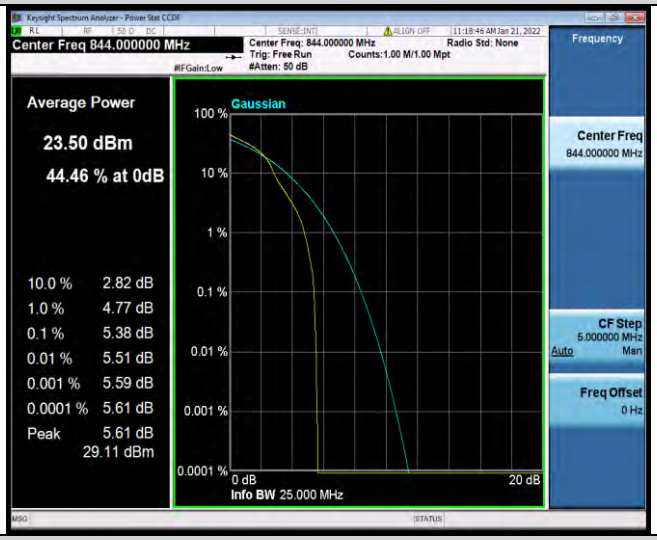
Band5-10MHz-64QAM-20525-1RB#0



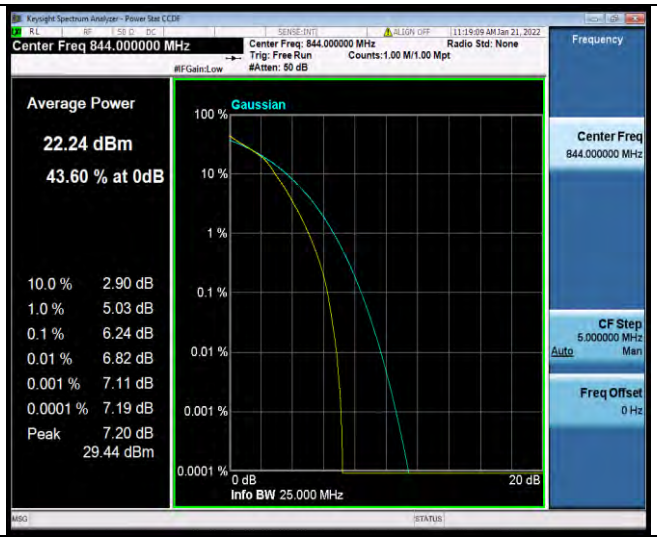
Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-1RB#0



Band5-10MHz-64QAM-20600-50RB#0


Keysight Spectrum Analyzer - Power Stat CCDF
Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
#Atten: 50 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
22.24 dBm
43.60 % at 0dB
10.0 % 2.90 dB
1.0 % 5.03 dB
0.1 % 6.24 dB
0.01 % 6.82 dB
0.001 % 7.11 dB
0.0001 % 7.19 dB
Peak 7.20 dB
29.44 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
844.000000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

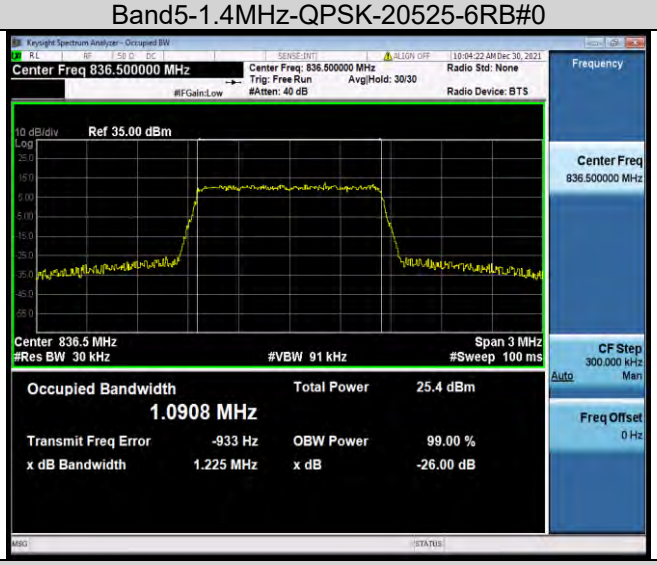
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0896	1.229	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0908	1.225	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0896	1.239	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0915	1.242	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0924	1.242	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0912	1.239	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6941	2.969	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6977	2.960	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6995	2.954	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6934	2.964	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6977	3.008	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6959	2.961	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4929	4.863	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4931	4.887	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4960	4.881	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4866	4.858	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4988	4.916	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5036	4.881	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9822	9.595	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9857	9.578	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9811	9.557	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9641	9.581	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9759	9.622	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9802	9.555	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.0894	1.239	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.0890	1.226	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.0903	1.237	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.6974	2.984	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.6927	2.961	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.6927	2.957	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.4958	4.877	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.4950	4.902	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.5080	4.894	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.9612	9.546	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.9788	9.557	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.9944	9.575	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20525-6RB#0



Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-6RB#0

Band5-1.4MHz-16QAM-20525-6RB#0

Band5-1.4MHz-16QAM-20643-6RB#0

Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20525-15RB#0

Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-15RB#0

Band5-3MHz-16QAM-20525-15RB#0

Band5-3MHz-16QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20525-25RB#0

Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20525-25RB#0

Band5-5MHz-16QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20525-50RB#0

Band5-10MHz-16QAM-20600-50RB#0

Band5-1.4MHz-64QAM-20407-6RB#0

Band5-1.4MHz-64QAM-20525-6RB#0

Band5-1.4MHz-64QAM-20643-6RB#0

Band5-3MHz-64QAM-20415-15RB#0

Band5-3MHz-64QAM-20525-15RB#0

Band5-3MHz-64QAM-20635-15RB#0

Band5-5MHz-64QAM-20425-25RB#0

Band5-5MHz-64QAM-20525-25RB#0

Band5-5MHz-64QAM-20625-25RB#0

Band5-10MHz-64QAM-20450-50RB#0

Band5-10MHz-64QAM-20525-50RB#0

Band5-10MHz-64QAM-20600-50RB#0

Keysight Spectrum Analyzer - Occupied BW
Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Ref Offset 12.11 dB
10 dB/div
Ref 35.00 dBm
Center 844 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
Occupied Bandwidth
8.9944 MHz
Total Power 23.3 dBm
Transmit Freq Error 3.576 kHz
OBW Power 99.00 %
x dB Bandwidth 9.575 MHz
x dB -26.00 dB
Frequency
Center Freq
844.000000 MHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

BAND EDGE

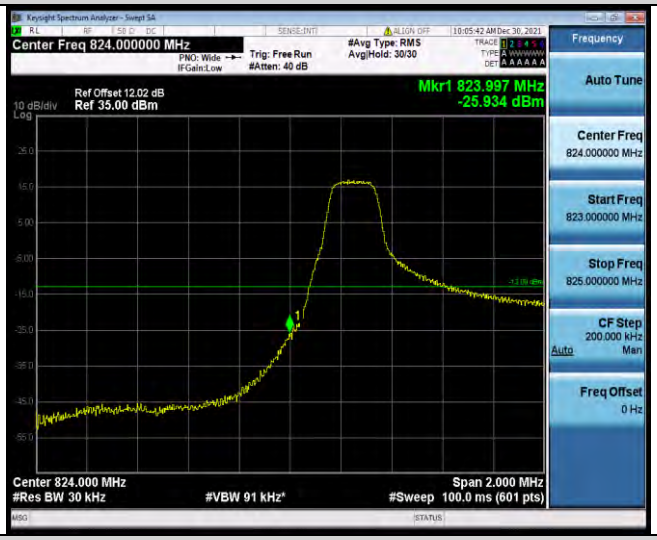
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-25.93	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-32.27	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-23.52	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-28.15	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-29.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-31.78	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-25.95	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-27.93	PASS
Band5	3MHz	QPSK	20415	1RB#0	-19.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	-21.68	PASS
Band5	3MHz	QPSK	20635	1RB#14	-18.66	PASS
Band5	3MHz	QPSK	20635	15RB#0	-21.00	PASS
Band5	3MHz	16QAM	20415	1RB#0	-20.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	-22.87	PASS
Band5	3MHz	16QAM	20635	1RB#14	-20.16	PASS
Band5	3MHz	16QAM	20635	15RB#0	-23.46	PASS
Band5	5MHz	QPSK	20425	1RB#0	-15.31	PASS
Band5	5MHz	QPSK	20425	25RB#0	-26.22	PASS
Band5	5MHz	QPSK	20625	1RB#24	-14.66	PASS
Band5	5MHz	QPSK	20625	25RB#0	-24.62	PASS
Band5	5MHz	16QAM	20425	1RB#0	-16.59	PASS
Band5	5MHz	16QAM	20425	25RB#0	-27.05	PASS
Band5	5MHz	16QAM	20625	1RB#24	-16.35	PASS
Band5	5MHz	16QAM	20625	25RB#0	-25.78	PASS
Band5	10MHz	QPSK	20450	1RB#0	-17.63	PASS
Band5	10MHz	QPSK	20450	50RB#0	-28.23	PASS
Band5	10MHz	QPSK	20600	1RB#49	-16.79	PASS
Band5	10MHz	QPSK	20600	50RB#0	-25.03	PASS
Band5	10MHz	16QAM	20450	1RB#0	-19.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	-29.84	PASS
Band5	10MHz	16QAM	20600	1RB#49	-17.41	PASS
Band5	10MHz	16QAM	20600	50RB#0	-26.65	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	-30.59	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	-34.99	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	-28.77	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	-36.19	PASS
Band5	3MHz	64QAM	20415	1RB#0	-21.72	PASS
Band5	3MHz	64QAM	20415	15RB#0	-22.50	PASS
Band5	3MHz	64QAM	20635	1RB#14	-20.56	PASS
Band5	3MHz	64QAM	20635	15RB#0	-22.80	PASS
Band5	5MHz	64QAM	20425	1RB#0	-16.11	PASS
Band5	5MHz	64QAM	20425	25RB#0	-27.47	PASS
Band5	5MHz	64QAM	20625	1RB#24	-16.43	PASS
Band5	5MHz	64QAM	20625	25RB#0	-27.75	PASS

Band5	10MHz	64QAM	20450	1RB#0	-18.56	PASS
Band5	10MHz	64QAM	20450	50RB#0	-30.91	PASS
Band5	10MHz	64QAM	20600	1RB#49	-17.59	PASS
Band5	10MHz	64QAM	20600	50RB#0	-29.23	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0

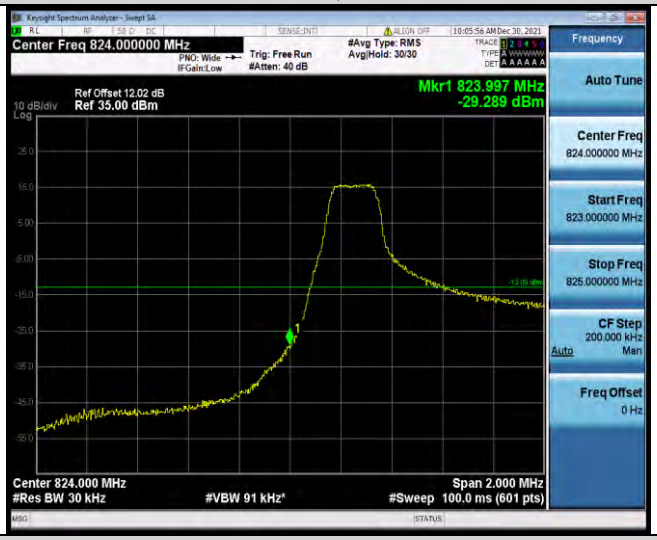


Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20643-1RB#5

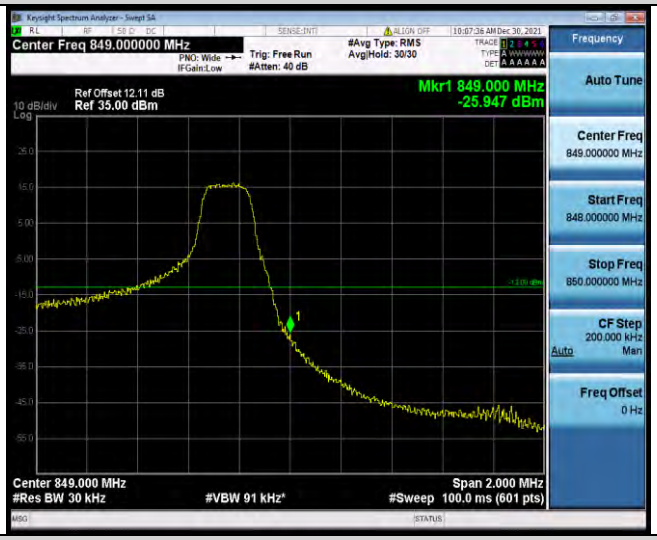
Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-1RB#0



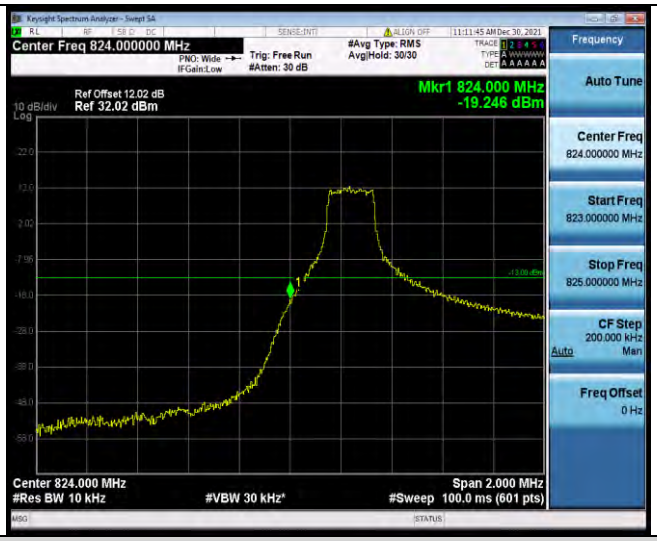
Band5-1.4MHz-16QAM-20407-6RB#0

Band5-1.4MHz-16QAM-20643-1RB#5



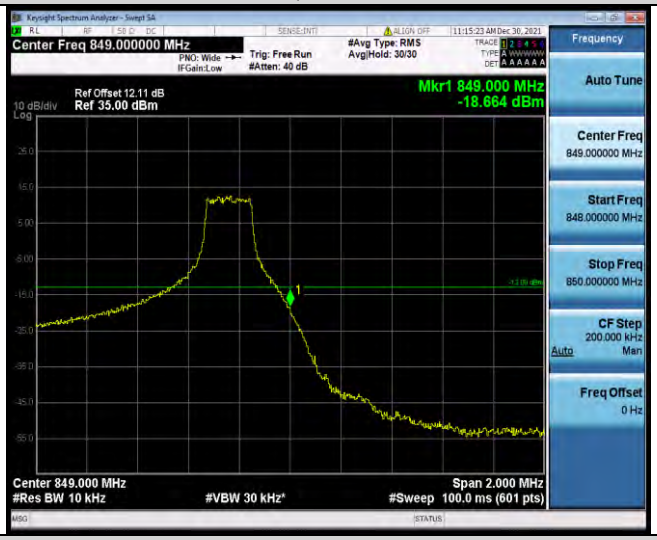
Band5-1.4MHz-16QAM-20643-6RB#0

Band5-3MHz-QPSK-20415-1RB#0



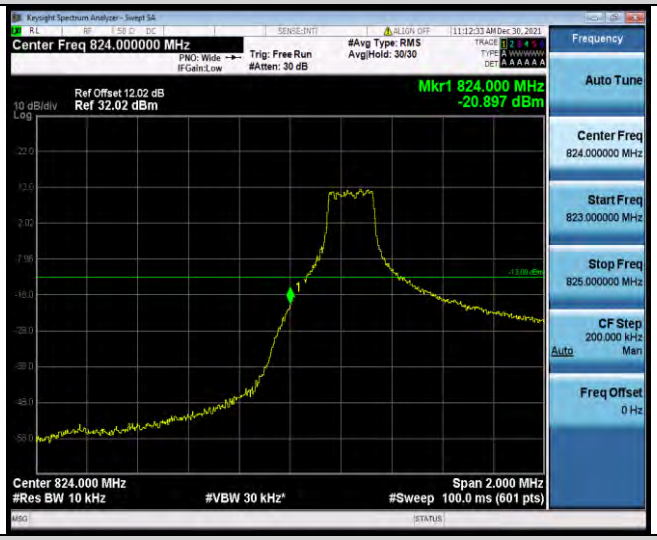
Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20635-1RB#14



Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-1RB#0

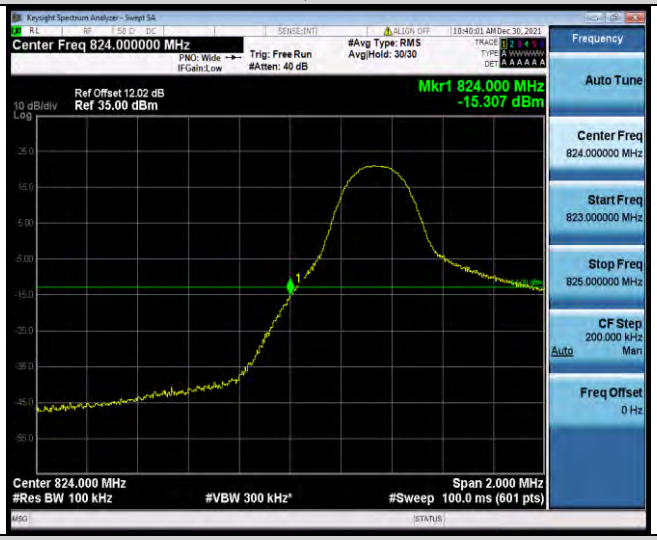


Band5-3MHz-16QAM-20415-15RB#0

Band5-3MHz-16QAM-20635-1RB#14

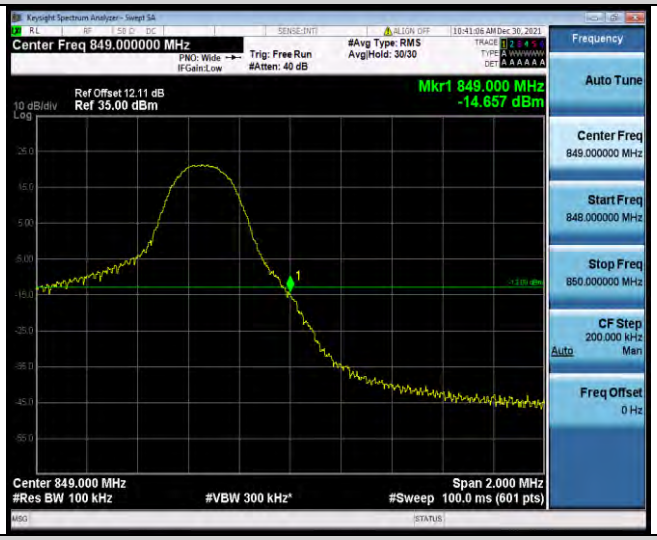
Band5-3MHz-16QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-1RB#0



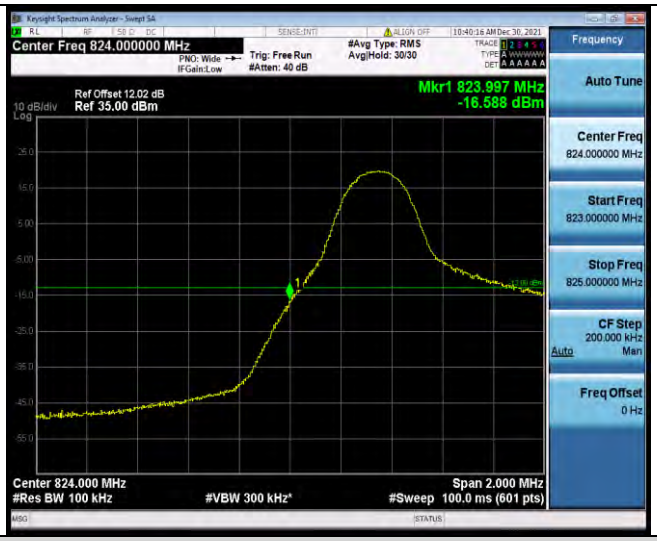
Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20625-1RB#24



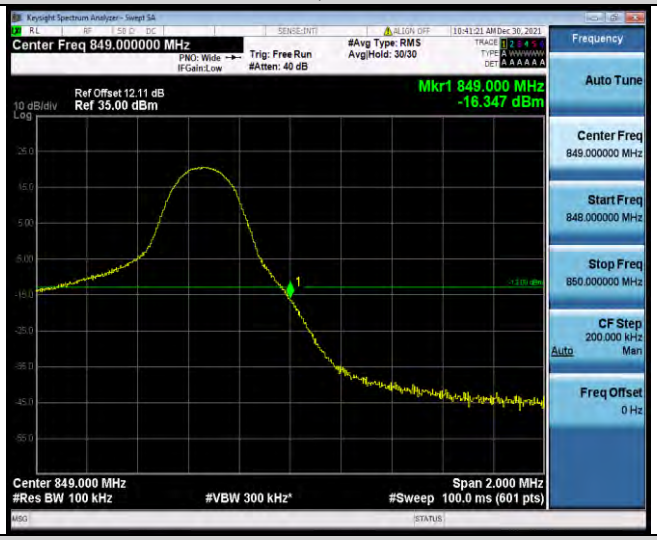
Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-1RB#0



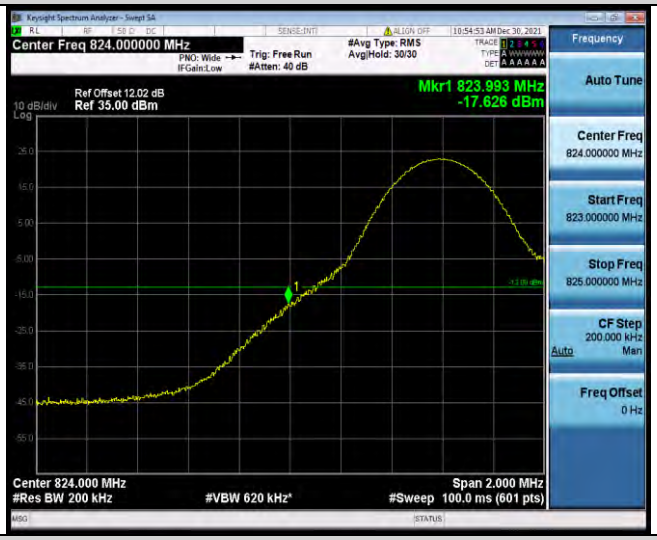
Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20625-1RB#24



Band5-5MHz-16QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20600-1RB#49

Band5-10MHz-QPSK-20600-50RB#0

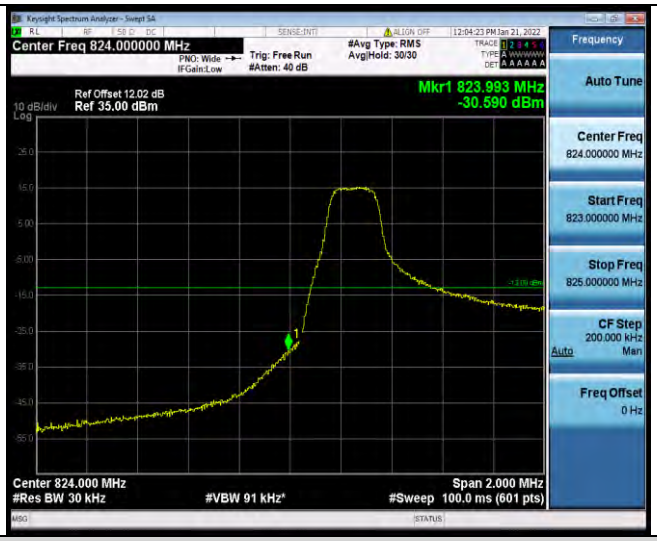
Band5-10MHz-16QAM-20450-1RB#0

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20600-1RB#49

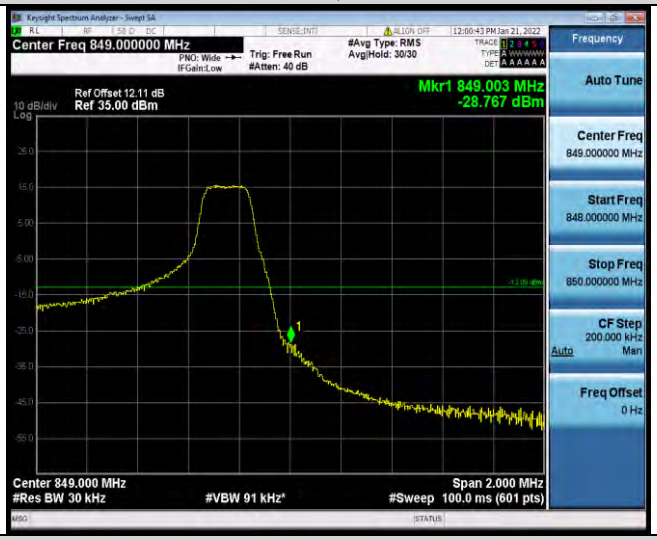
Band5-10MHz-16QAM-20600-50RB#0

Band5-1.4MHz-64QAM-20407-1RB#0



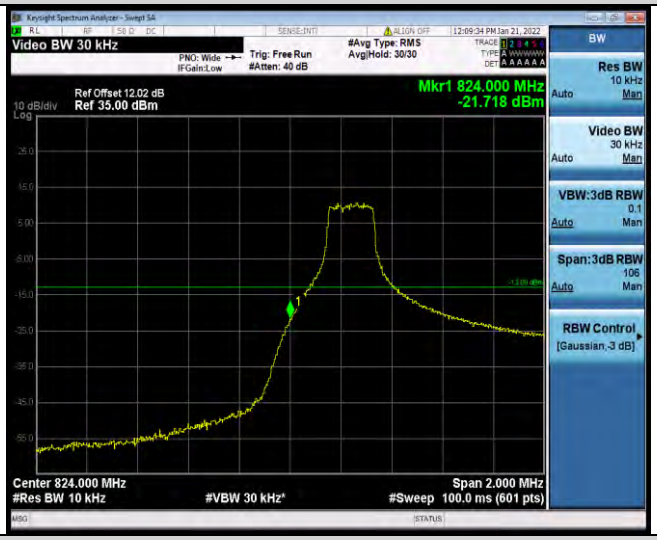
Band5-1.4MHz-64QAM-20407-6RB#0

Band5-1.4MHz-64QAM-20643-1RB#5



Band5-1.4MHz-64QAM-20643-6RB#0

Band5-3MHz-64QAM-20415-1RB#0

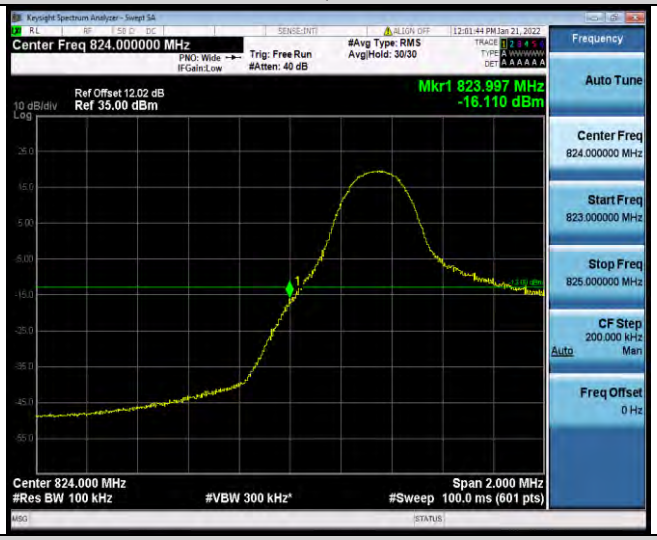


Band5-3MHz-64QAM-20415-15RB#0

Band5-3MHz-64QAM-20635-1RB#14

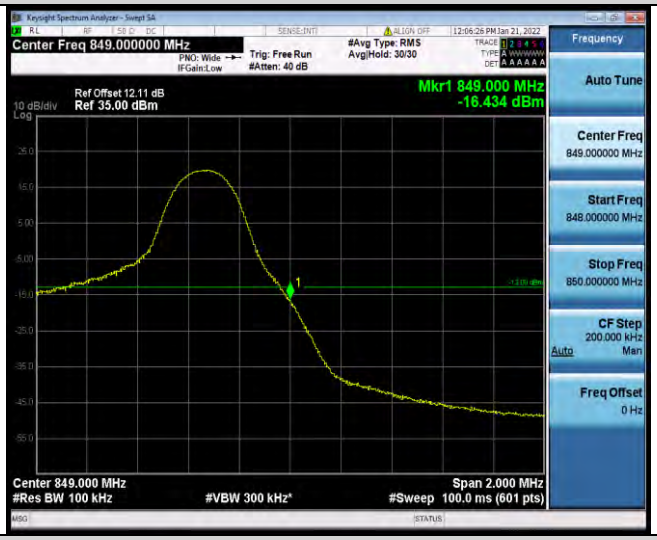
Band5-3MHz-64QAM-20635-15RB#0

Band5-5MHz-64QAM-20425-1RB#0



Band5-5MHz-64QAM-20425-25RB#0

Band5-5MHz-64QAM-20625-1RB#24



Band5-5MHz-64QAM-20625-25RB#0

Band5-10MHz-64QAM-20450-1RB#0

Band5-10MHz-64QAM-20450-50RB#0

Band5-10MHz-64QAM-20600-1RB#49

Band5-10MHz-64QAM-20600-50RB#0

Keysight Spectrum Analyzer - Swept SA
Center Freq 849.000000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
12:03:34 PM Jan 21, 2022
Ref Offset 12.11 dB
10 dB/div
Ref 35.00 dBm
Log
Mkr1 849.003 MHz
-29.226 dBm
Center 849.000 MHz
#Res BW 200 kHz
#VBW 620 kHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
849.000000 MHz
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:30~1000MHz	-49.87	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:1000~10000MHz	-34.03	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-49.89	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.07	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:30~1000MHz	-50.27	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:1000~10000MHz	-32.43	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:30~1000MHz	-51.07	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:1000~10000MHz	-33.27	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-50.16	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-34.77	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:30~1000MHz	-50.36	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:1000~10000MHz	-34.23	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range1:30~1000MHz	-50.27	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range2:1000~10000MHz	-34.76	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-49.67	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.65	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range1:30~1000MHz	-49.99	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range2:1000~10000MHz	-32.78	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range1:30~1000MHz	-50.25	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range2:1000~10000MHz	-34.37	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-49.61	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-34.93	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range1:30~1000MHz	-49.99	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range2:1000~10000MHz	-35.48	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range1:30~1000MHz	-51.14	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range2:1000~10000MHz	-32.6	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-51.09	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-35.35	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range1:30~1000MHz	-51.13	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range2:1000~10000MHz	-32.27	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range1:30~1000MHz	-49.68	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range2:1000~10000MHz	-33.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-50.76	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-35.05	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range1:30~1000MHz	-51.76	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range2:1000~10000MHz	-34.46	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-50.84	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-33.74	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-50.87	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.9	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-51.16	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-30.99	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-50.76	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-35.05	PASS