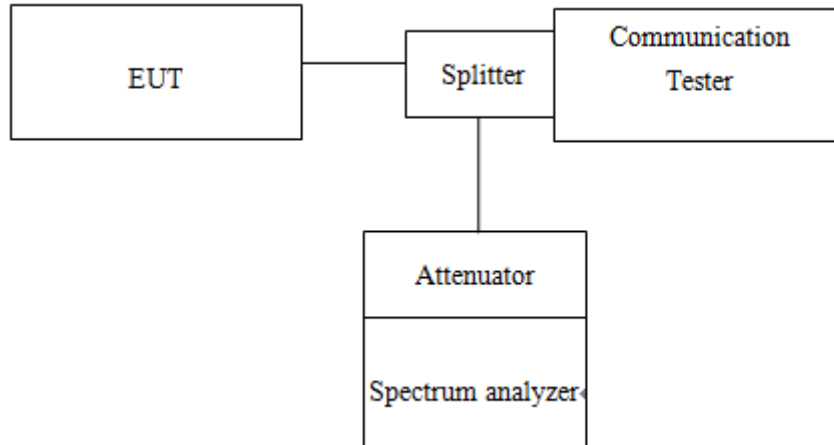


12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

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

12.2 Test SET-UP



12.3 Measurement Procedure

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

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12.4 Measurement Result

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	5.13	13	1851.5	18615	5.31	13
1880.0	18900	4.93	13	1880.0	18900	5.37	13
1909.3	19193	5.04	13	1908.5	19185	5.31	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	5.21	13	1855.0	18650	4.49	13
1880.0	18900	5.14	13	1880.0	18900	4.24	13
1907.5	19175	5.02	13	1905.0	19150	4.27	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	4.98	13	1860.0	18700	4.24	13
1880.0	18900	4.86	13	1880.0	18900	4.28	13
1902.5	19125	4.76	13	1900.0	19100	4.14	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	5.08	13	1711.5	19965	5.43	13
1732.5	20175	5.18	13	1732.5	20175	5.44	13
1754.3	20393	4.96	13	1753.5	20385	5.35	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19975	5.32	13	1715.0	20000	4.41	13
1732.5	20175	5.18	13	1732.5	20175	4.54	13
1752.5	20375	5.23	13	1750.0	20350	4.45	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	5.27	13	1720.0	20050	4.48	13
1732.5	20175	4.90	13	1732.5	20175	4.38	13
1747.5	20325	4.93	13	1745.0	20300	4.43	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	6.11	13	825.5	20415	6.07	13
836.5	20525	6.00	13	836.5	20525	6.18	13
848.3	20643	5.96	13	847.5	20635	6.07	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.81	13	829.0	20450	5.61	13
836.5	20525	6.06	13	836.5	20525	5.71	13
846.5	20625	5.96	13	844.0	20600	5.58	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	5.77	13	700.5	23025	5.93	13
707.5	23095	5.92	13	707.5	23095	5.94	13
715.3	23173	5.65	13	714.5	23165	5.97	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	5.96	13	704.0	23060	5.54	13
707.5	23095	5.96	13	707.5	23095	5.55	13
713.5	23155	5.92	13	711.0	23130	5.58	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	6.15	13	782.0	23230	5.61	13
782.0	23230	6.03	13				
784.5	23255	5.78	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	5.94	13	709.0	23780	5.67	13
710.0	23790	6.07	13	710.0	23790	5.57	13
713.5	23825	5.83	13	711.0	23800	5.63	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.52	13	1711.5	131987	6.50	13
1745.0	132322	6.16	13	1745.0	132322	6.46	13
1779.3	132665	6.32	13	1778.5	132657	6.16	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.12	13	1715.0	132022	6.18	13
1745.0	132322	6.26	13	1745.0	132322	5.96	13
1777.5	132647	6.18	13	1775.0	132622	5.73	13

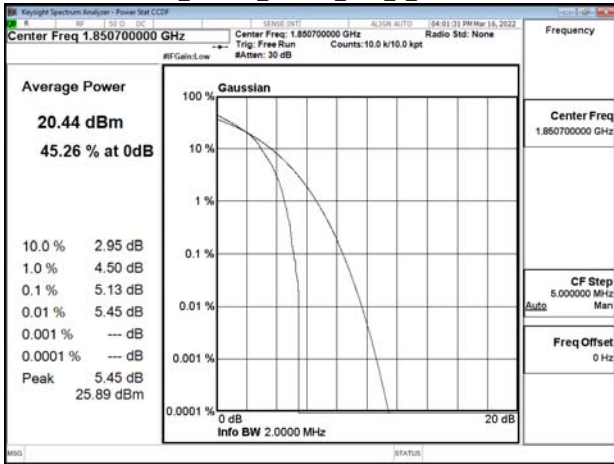
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	132047	5.90	13	1720.0	132072	5.90	13
1745.0	132322	5.91	13	1745.0	132322	5.85	13
1772.5	132597	5.81	13	1770.0	132572	5.93	13

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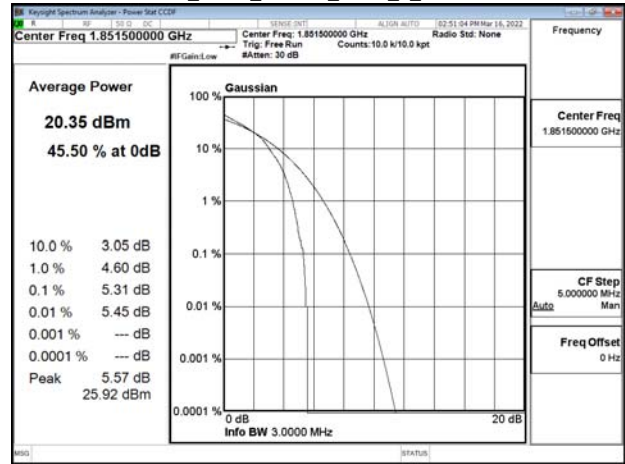
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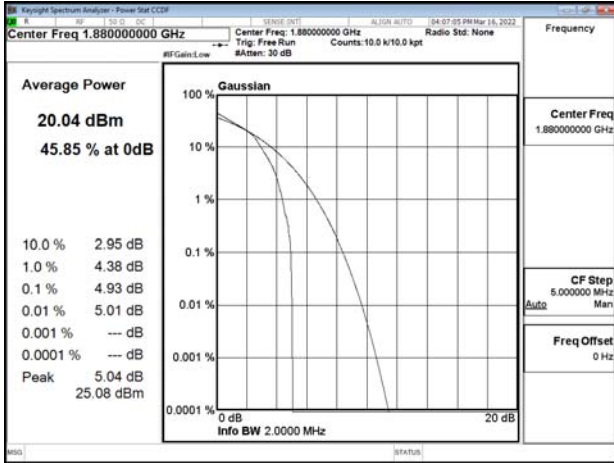
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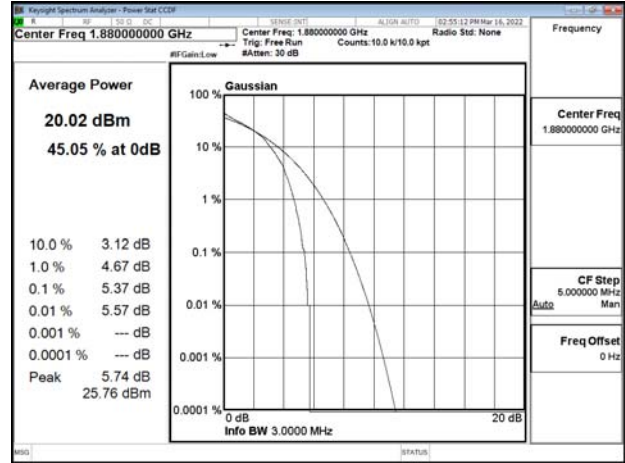
Band2_3MHz_16QAM_RB15_0_CH18615



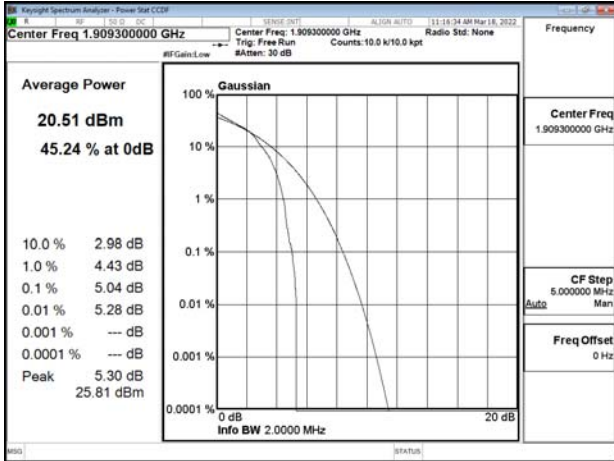
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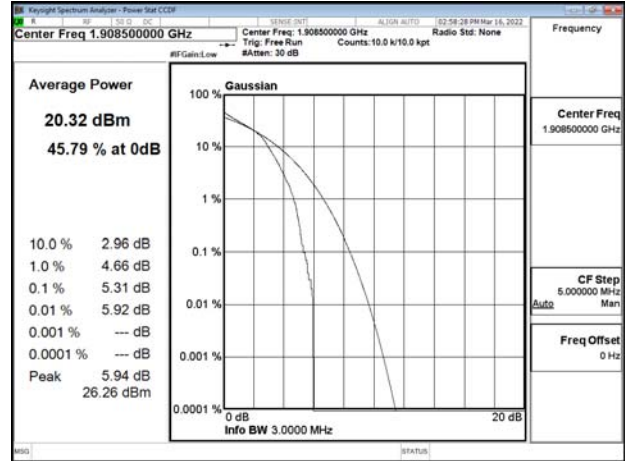
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Band2_1.4MHz_16QAM_RB6_0_CH19193



Band2_3MHz_16QAM_RB15_0_CH19185

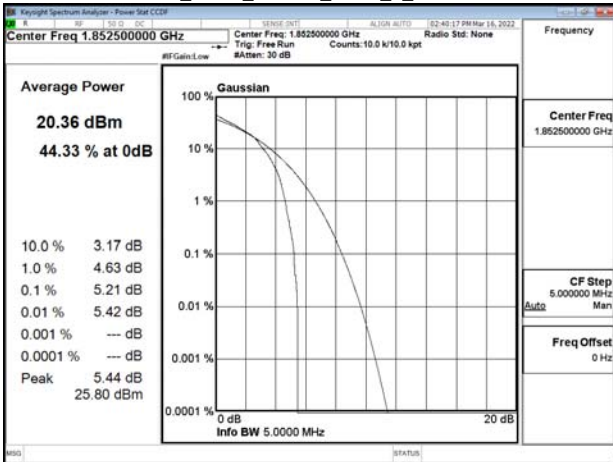


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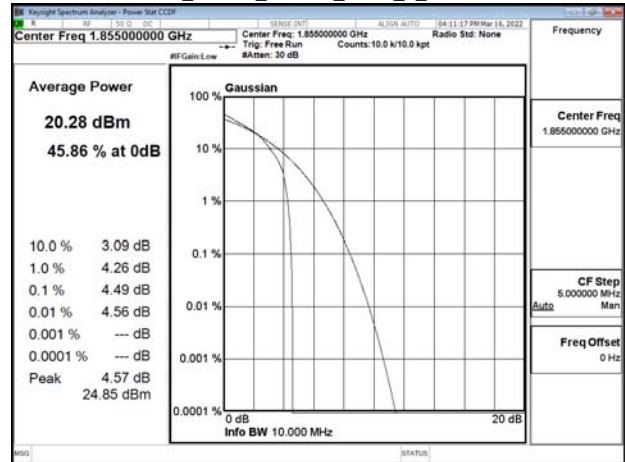
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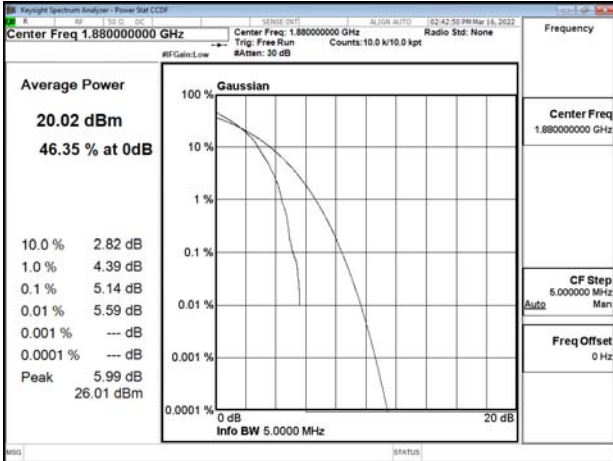
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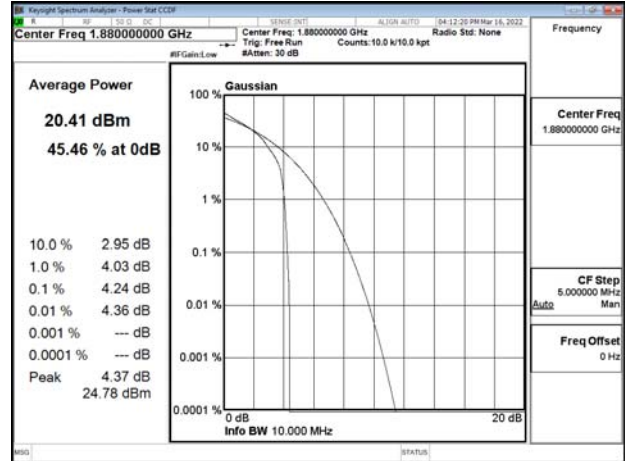
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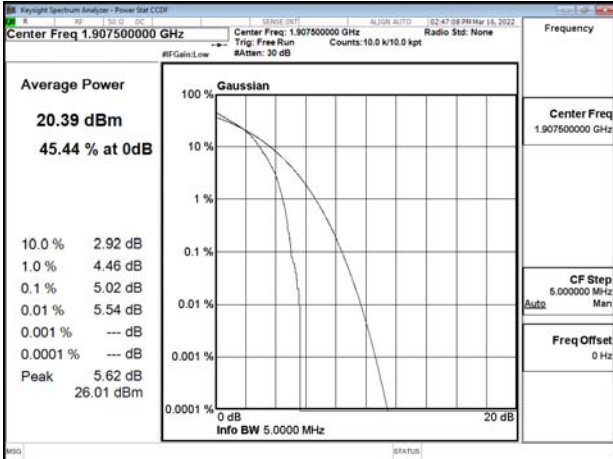
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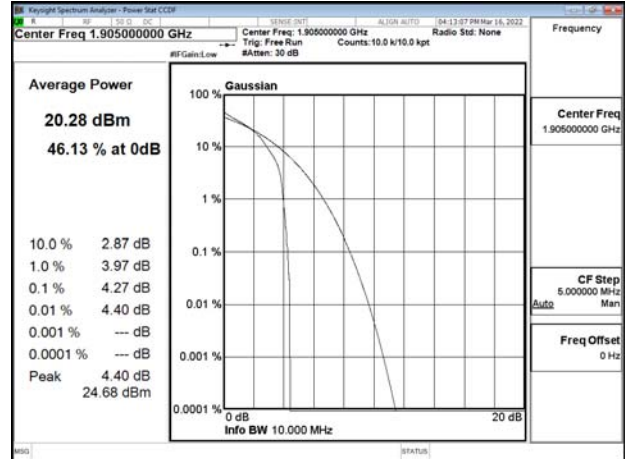
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Band2_5MHz_16QAM_RB25_0_CH19175



Band2_10MHz_16QAM_RB16_0_CH19150

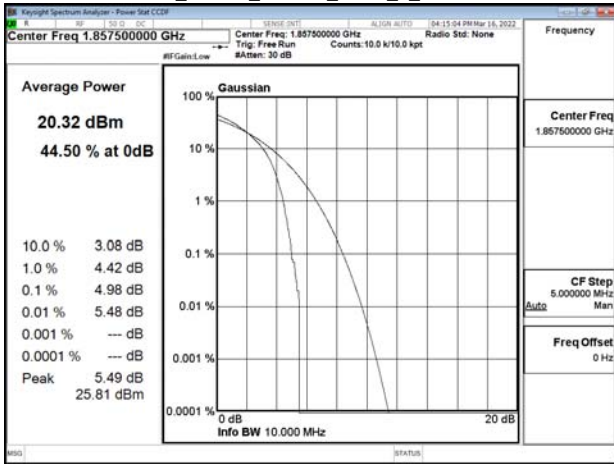


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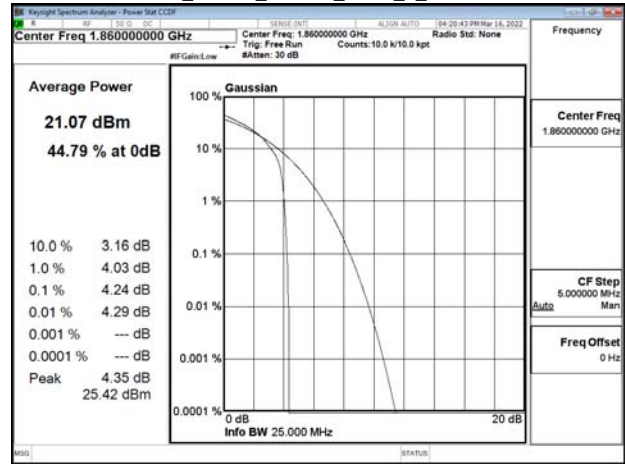
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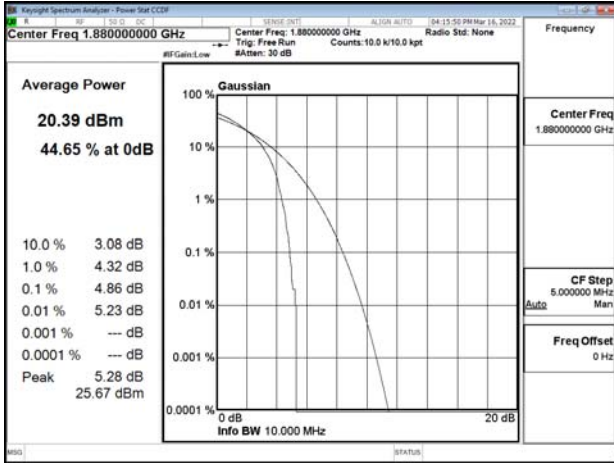
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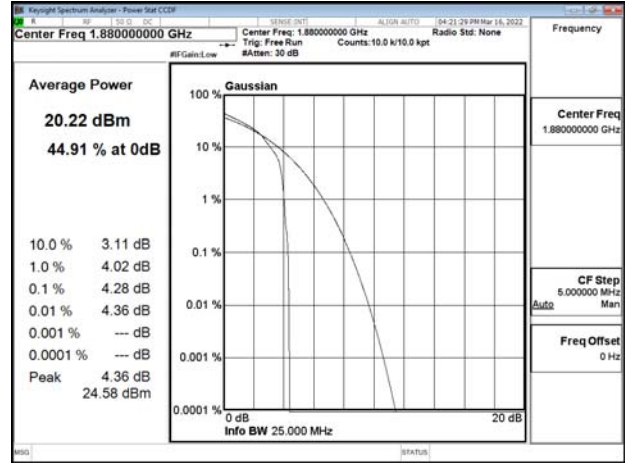
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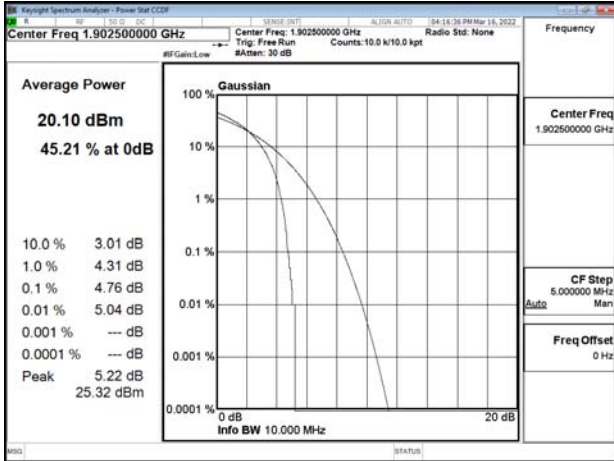
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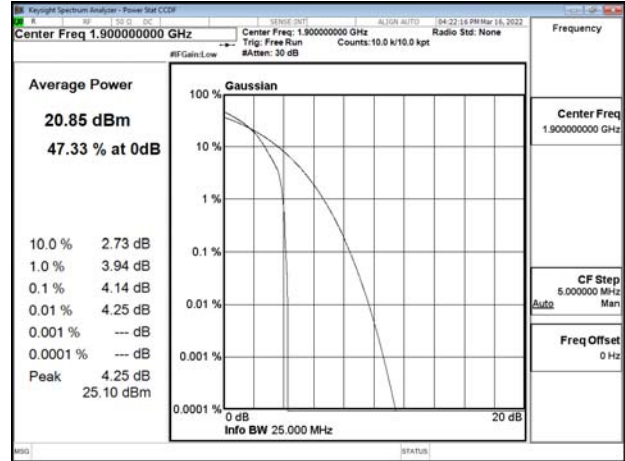
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Band2_15MHz_16QAM_RB16_0_CH19125



Band2_20MHz_16QAM_RB18_0_CH19100

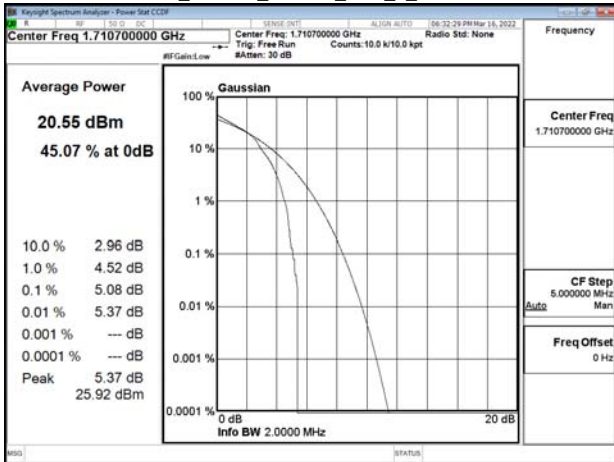


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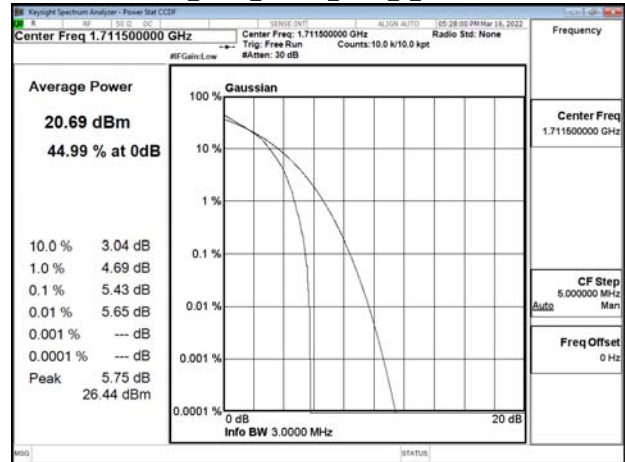
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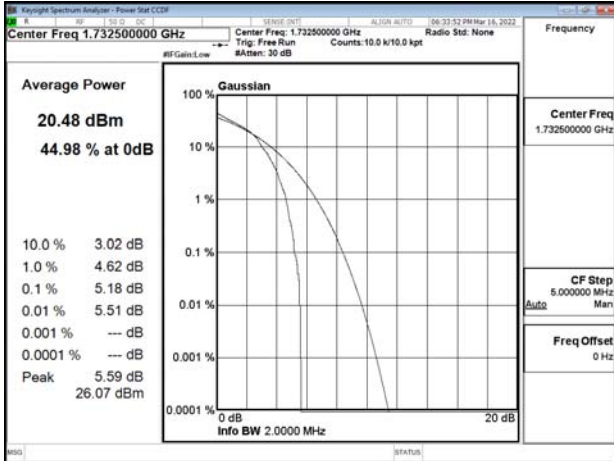
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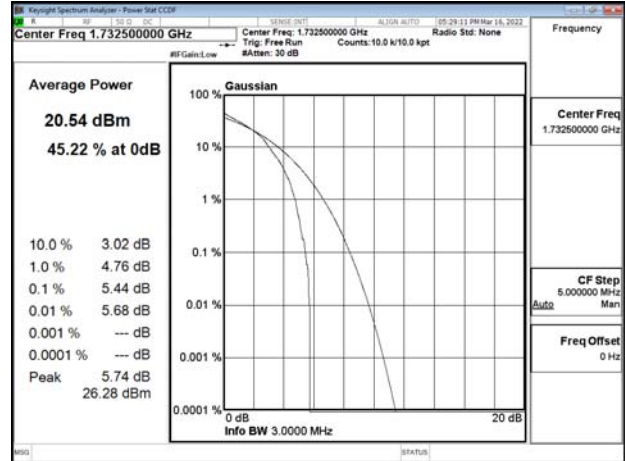
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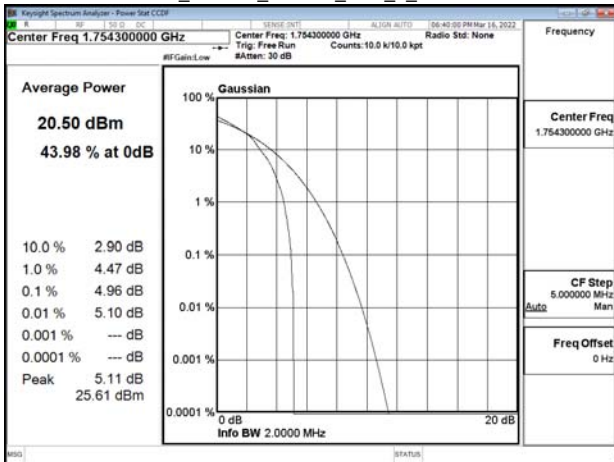
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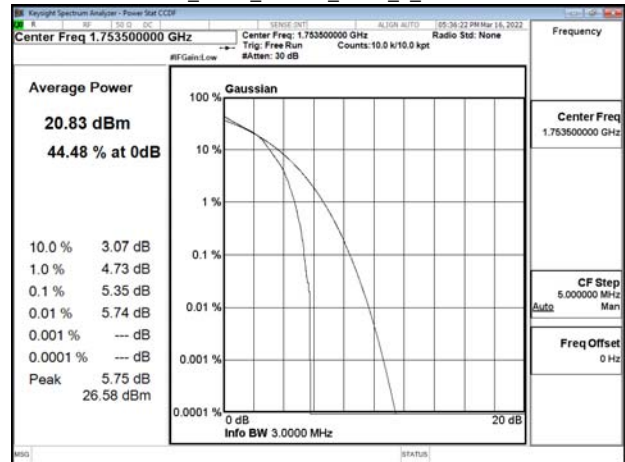
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Band4_1.4MHz_16QAM_RB6_0_CH20393



Band4_3MHz_16QAM_RB15_0_CH20385

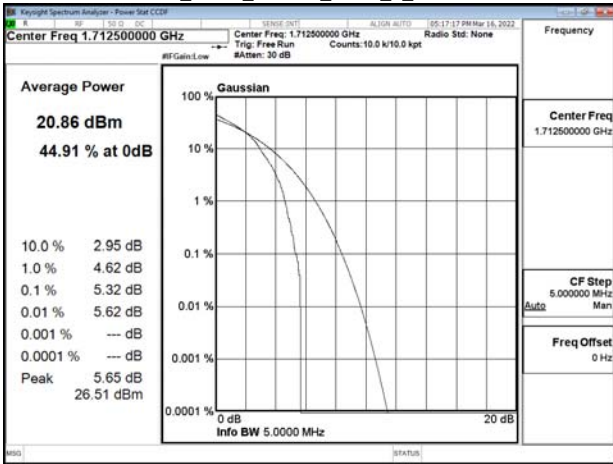


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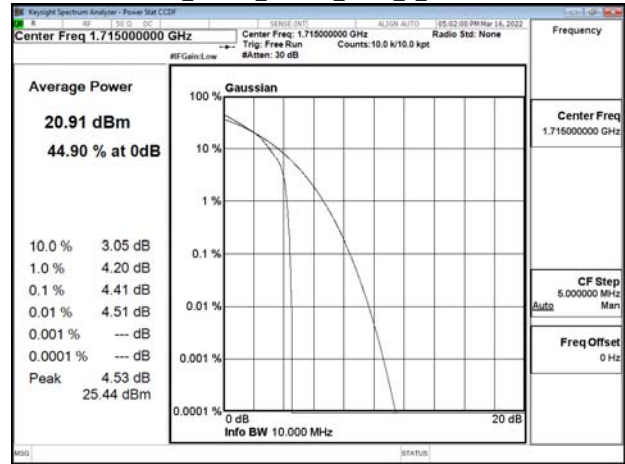
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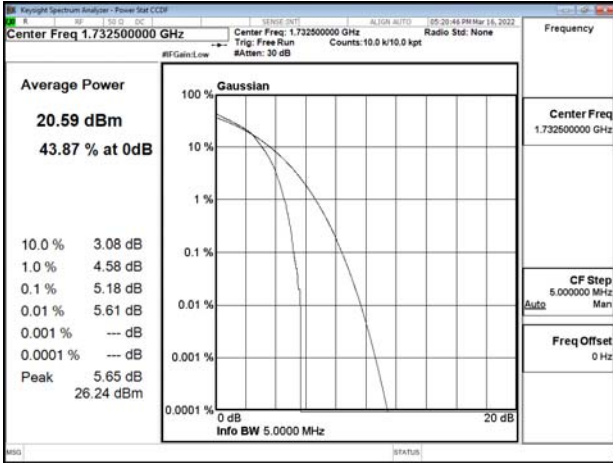
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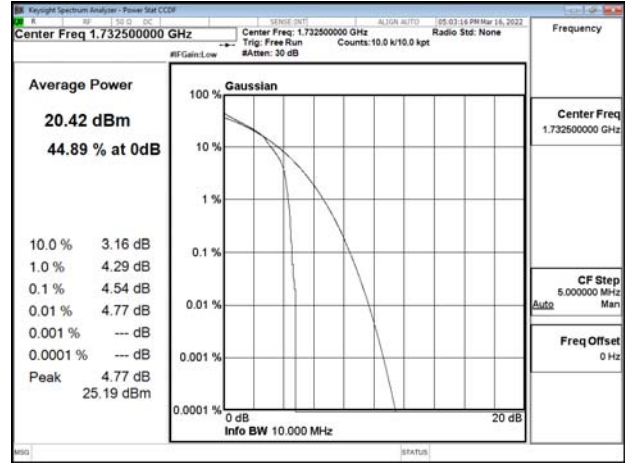
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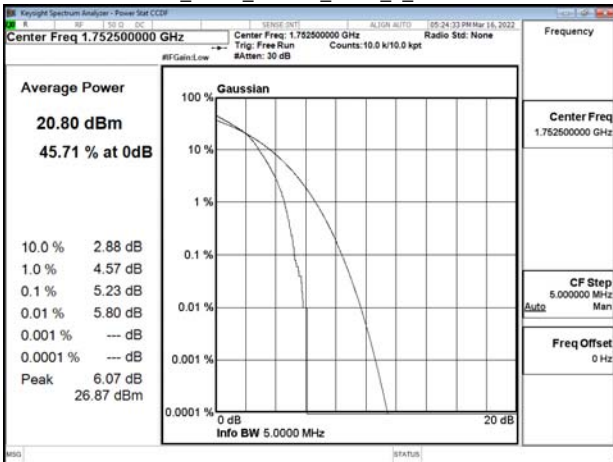
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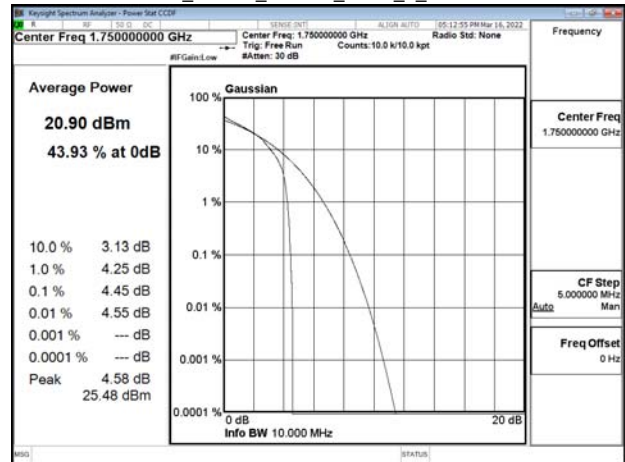
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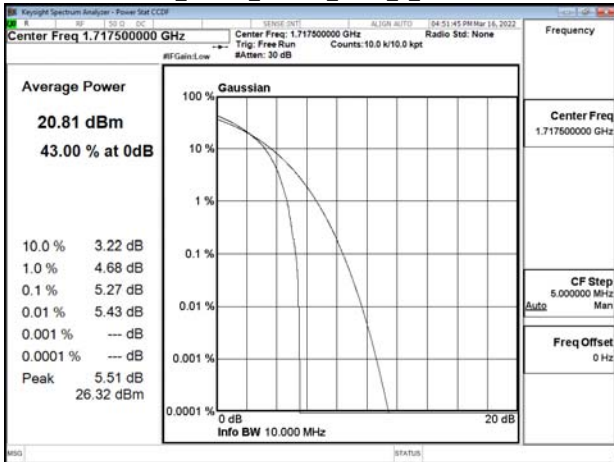


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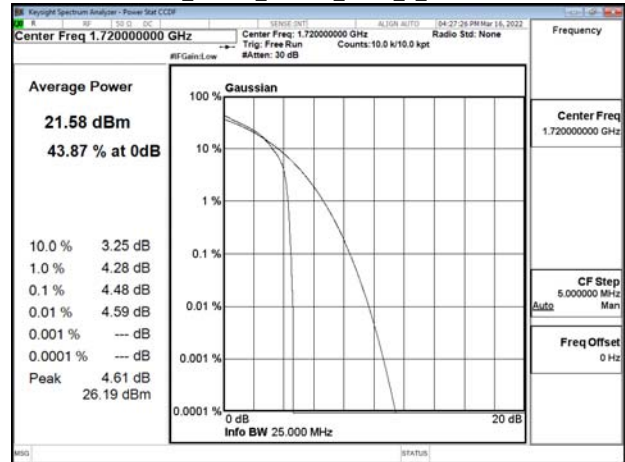
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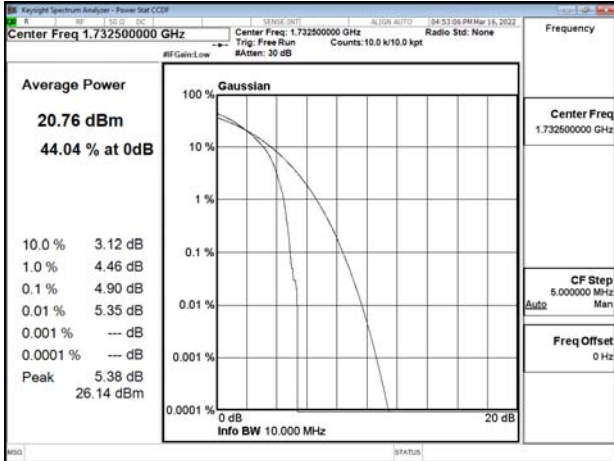
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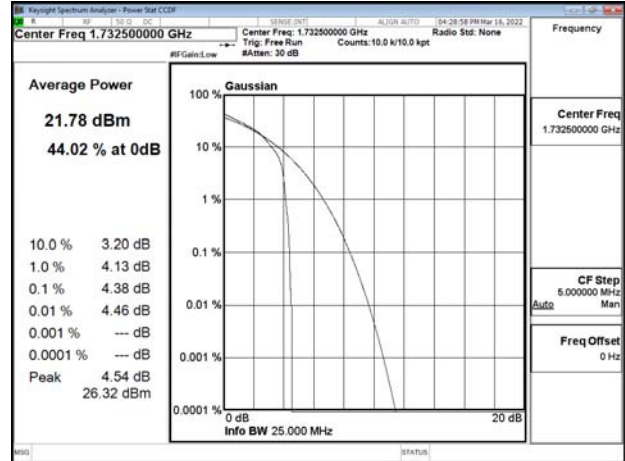
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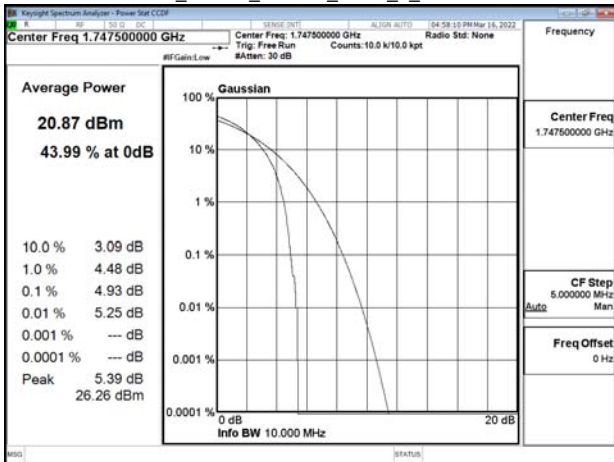
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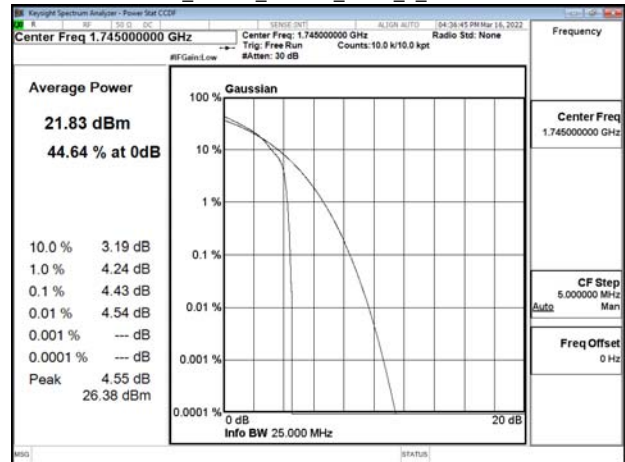
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Band4_15MHz_16QAM_RB16_0_CH20325



Band4_20MHz_16QAM_RB18_0_CH20300

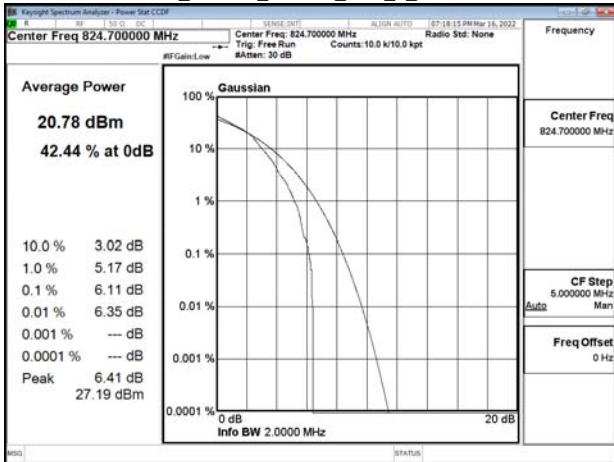


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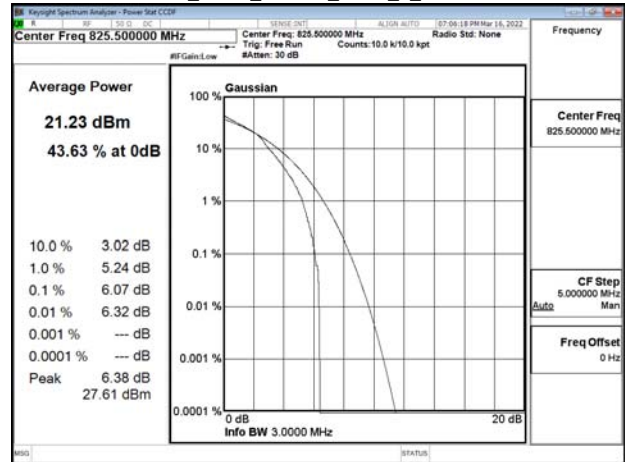
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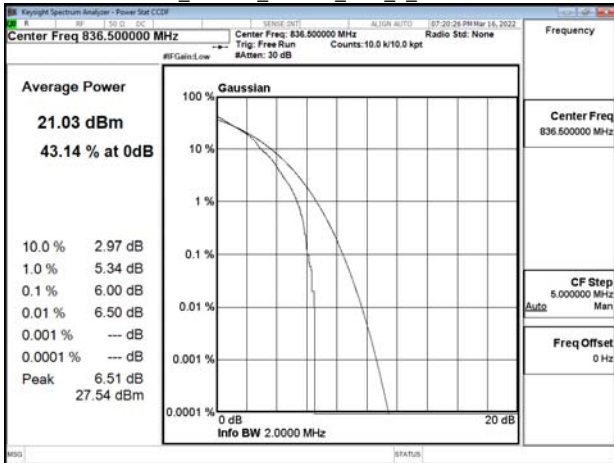
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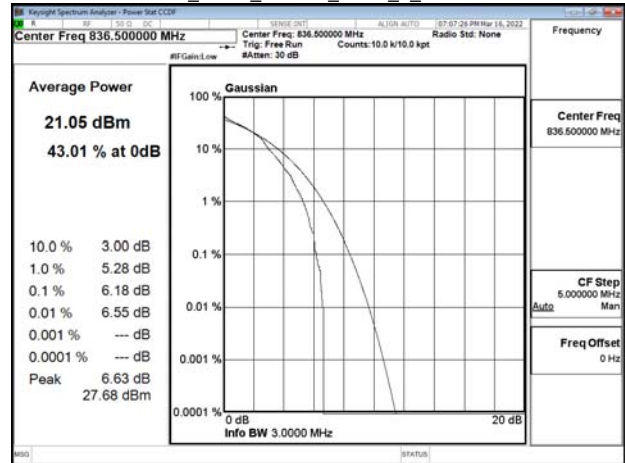
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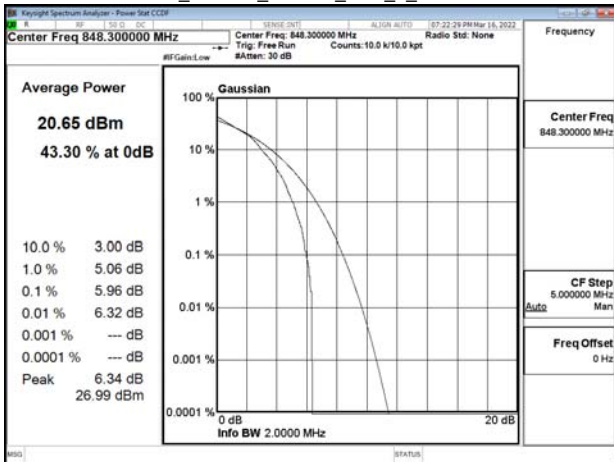
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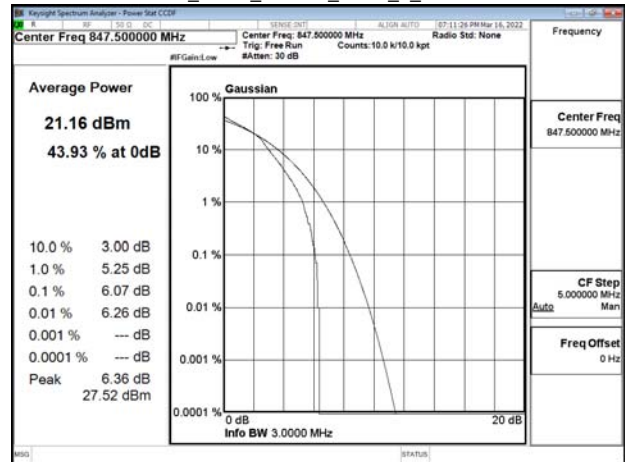
Band5_3MHz_16QAM_RB15_0_CH20525



Band5_1.4MHz_16QAM_RB6_0_CH20643



Band5_3MHz_16QAM_RB15_0_CH20635

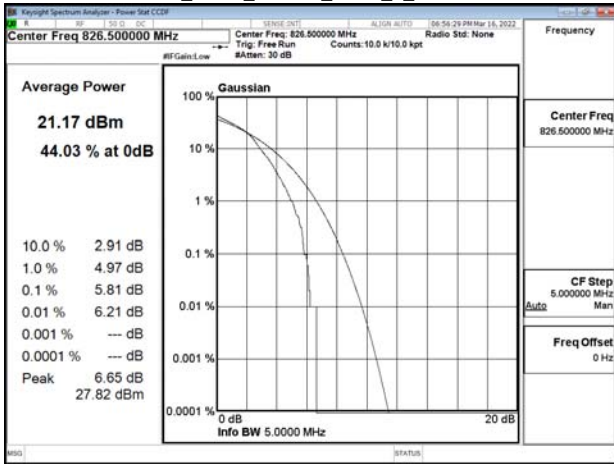


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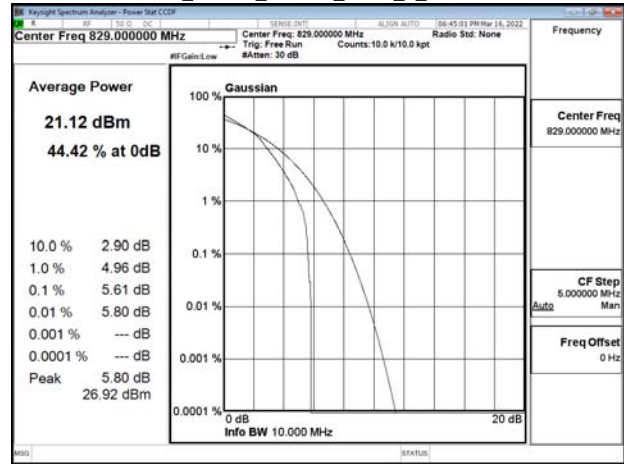
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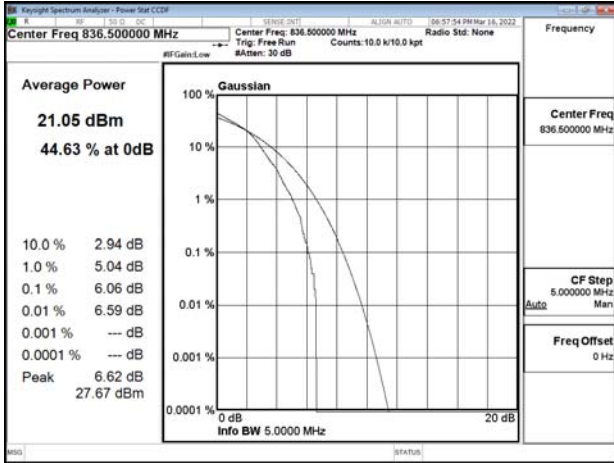
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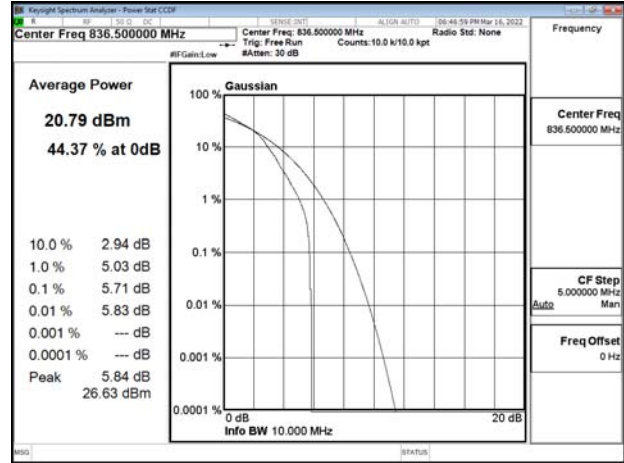
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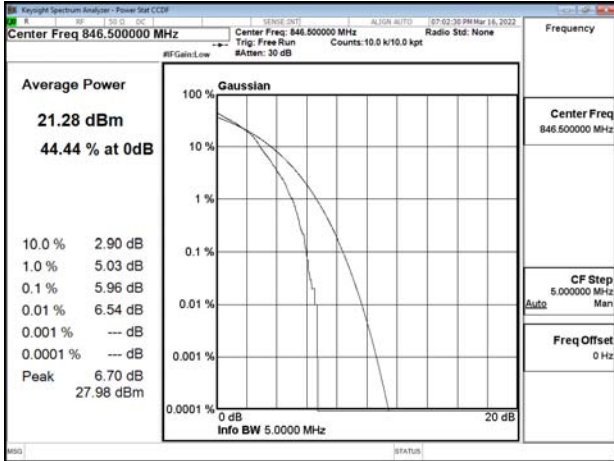
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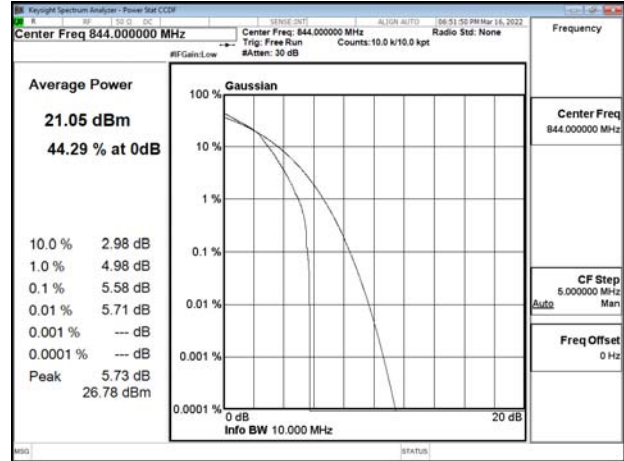
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Band5_5MHz_16QAM_RB25_0_CH20625



Band5_10MHz_16QAM_RB16_0_CH20600

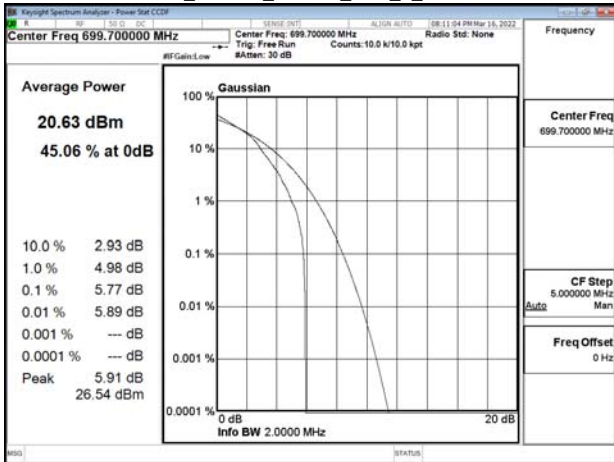


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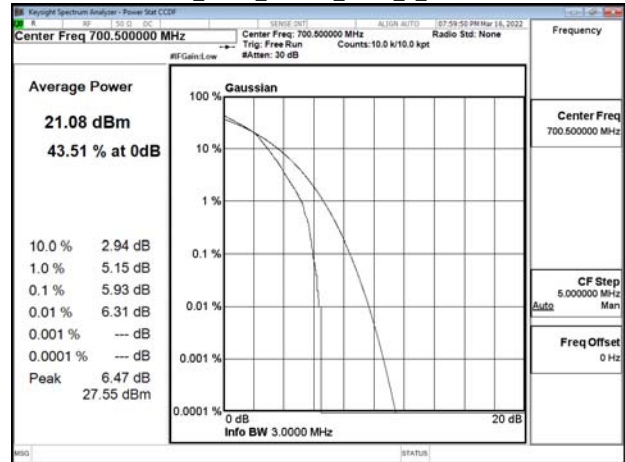
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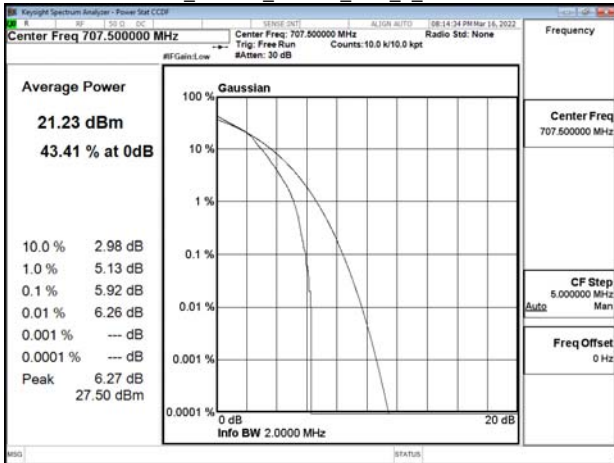
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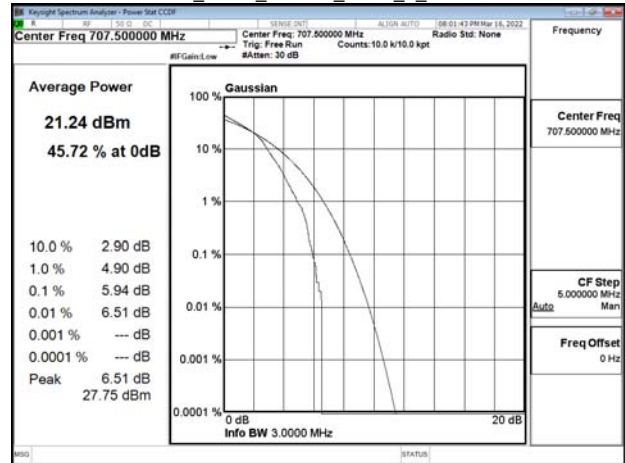
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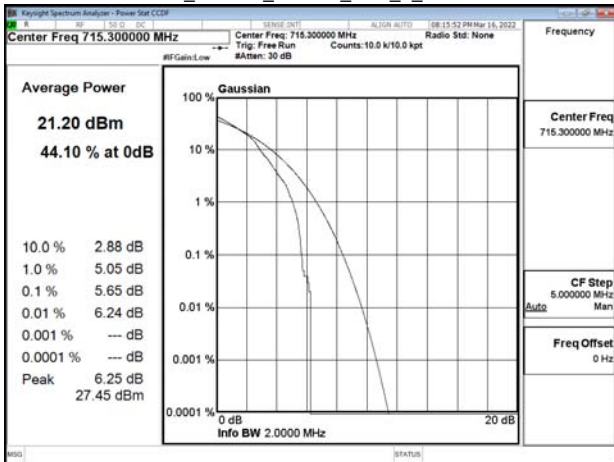
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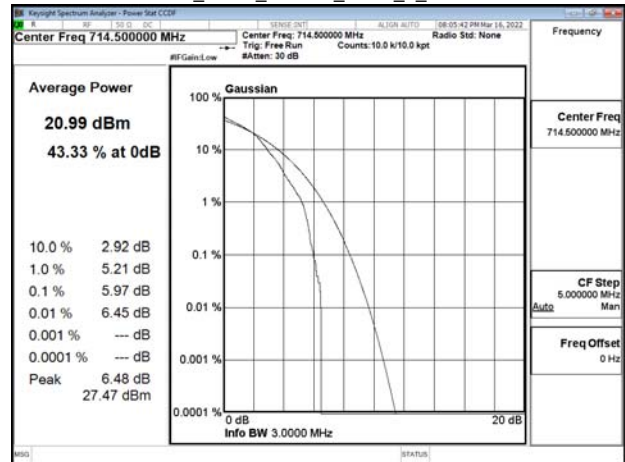
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Band12_1.4MHz_16QAM_RB6_0_CH23173



Band12_3MHz_16QAM_RB15_0_CH23165

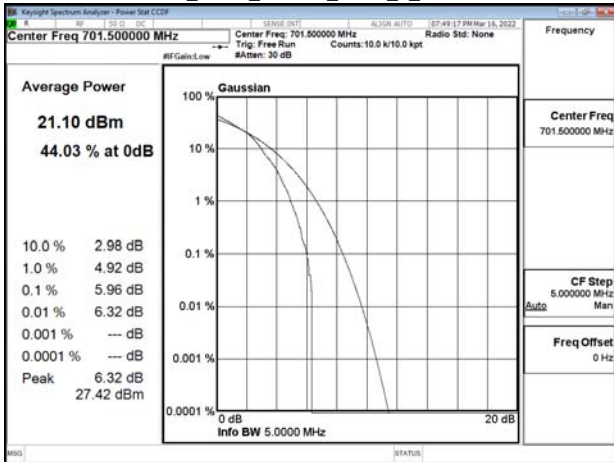


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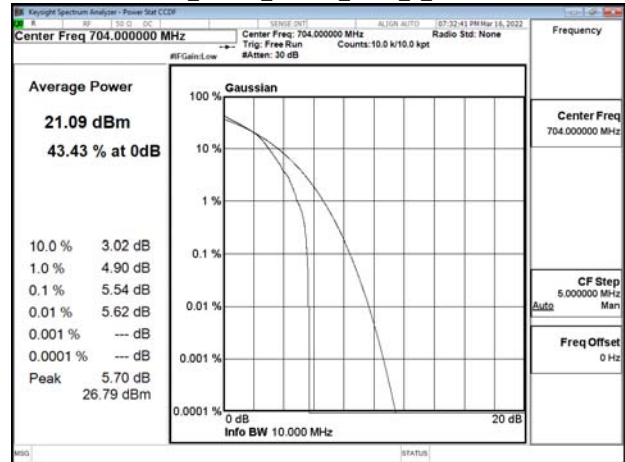
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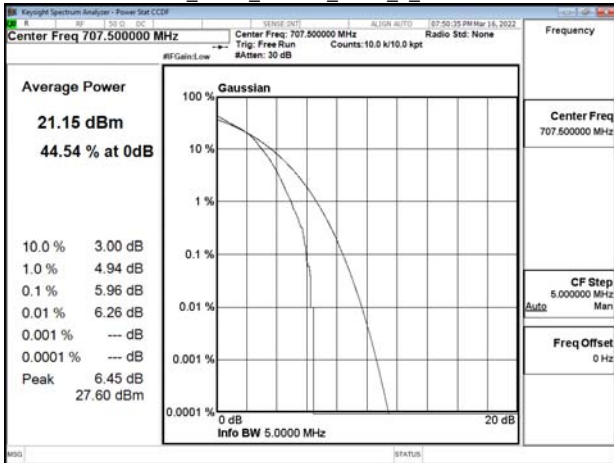
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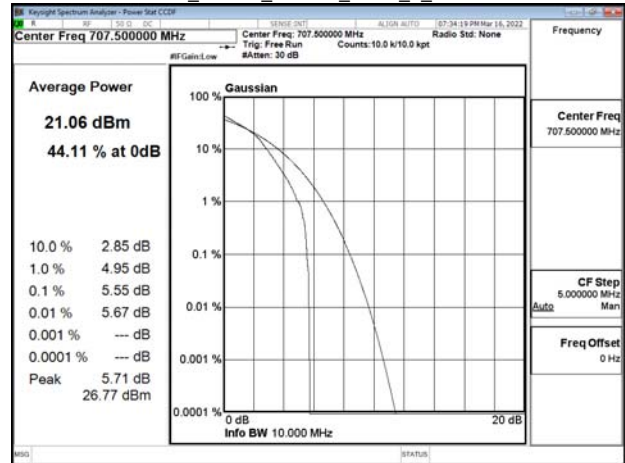
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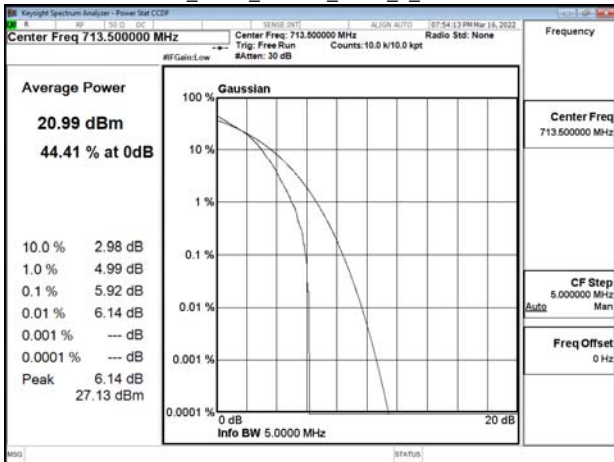
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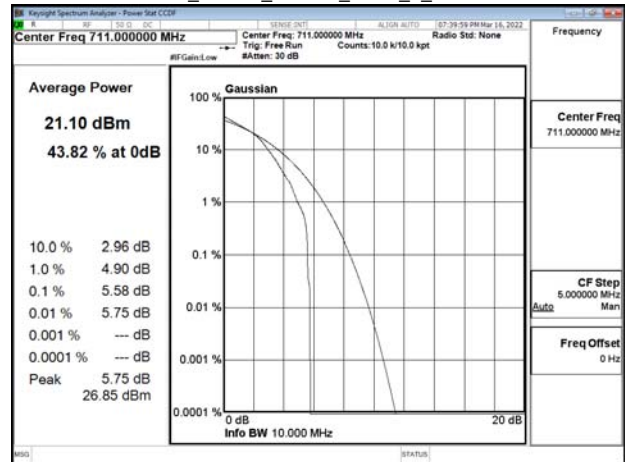
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Band12_5MHz_16QAM_RB25_0_CH23155



Band12_10MHz_16QAM_RB16_0_CH23130

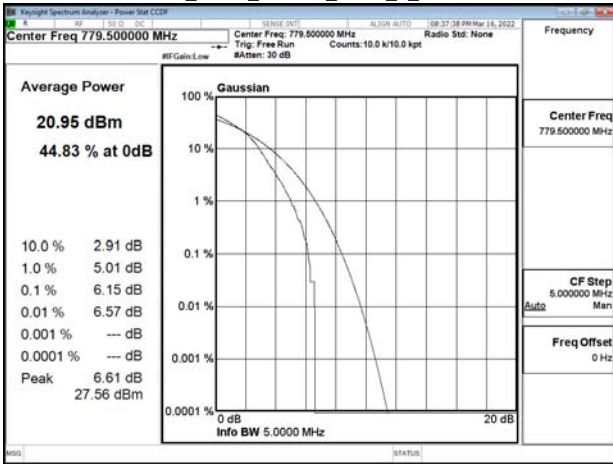


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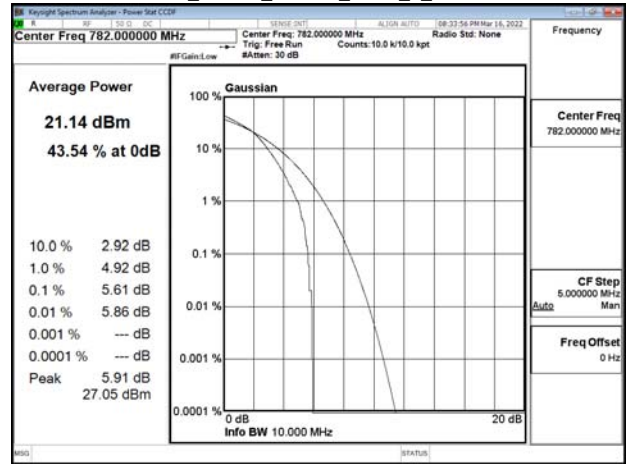
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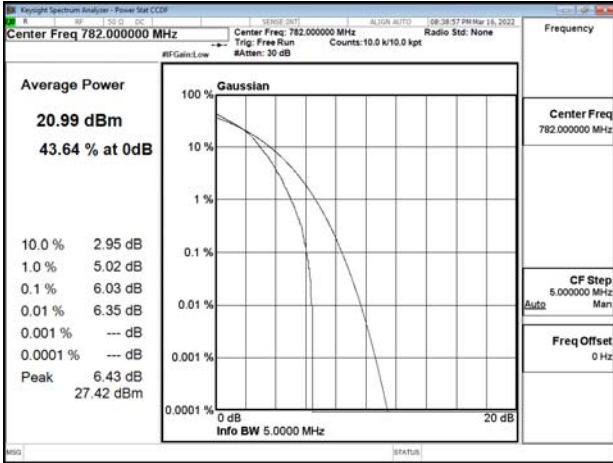
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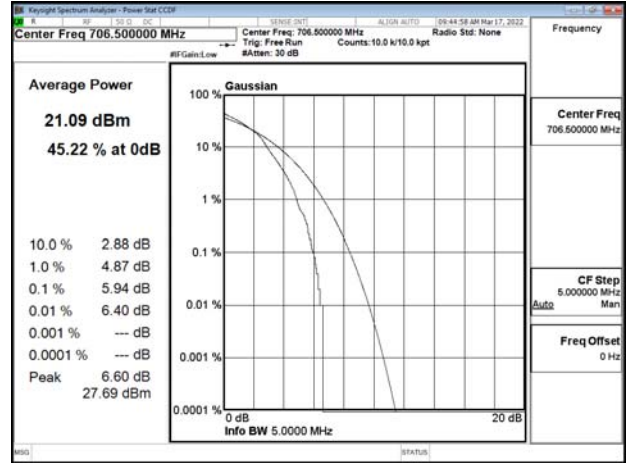
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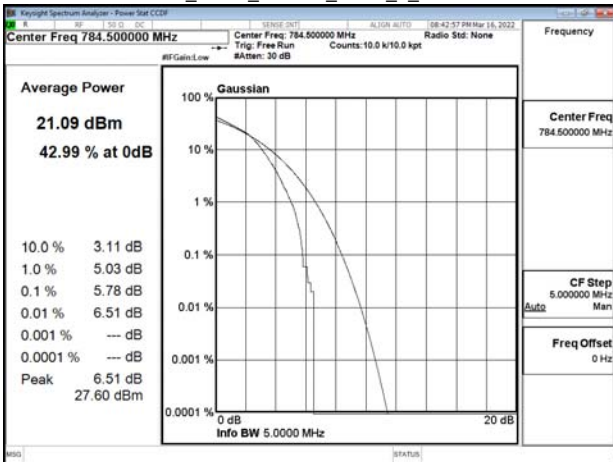
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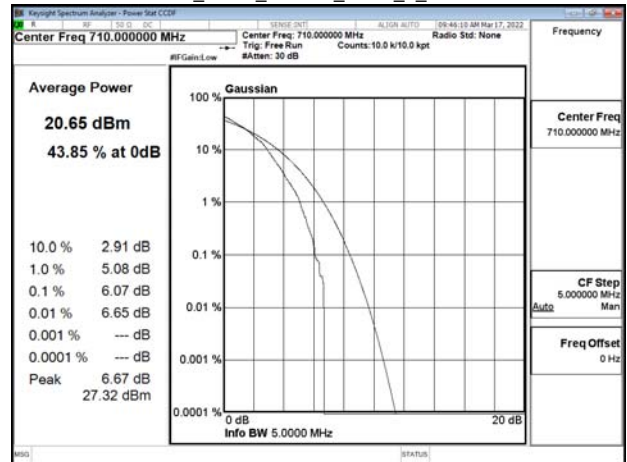
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Band13_5MHz_16QAM_RB25_0_CH23255



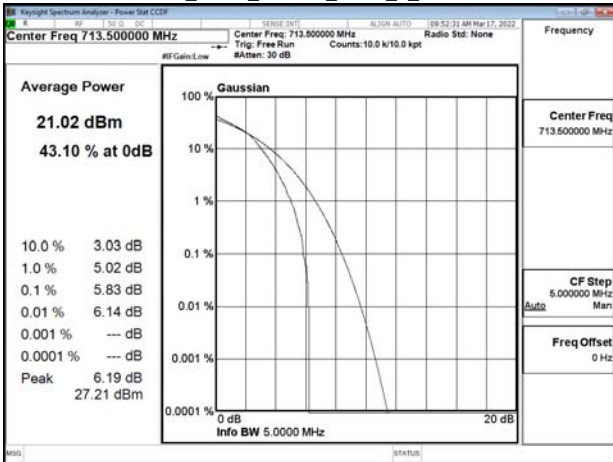
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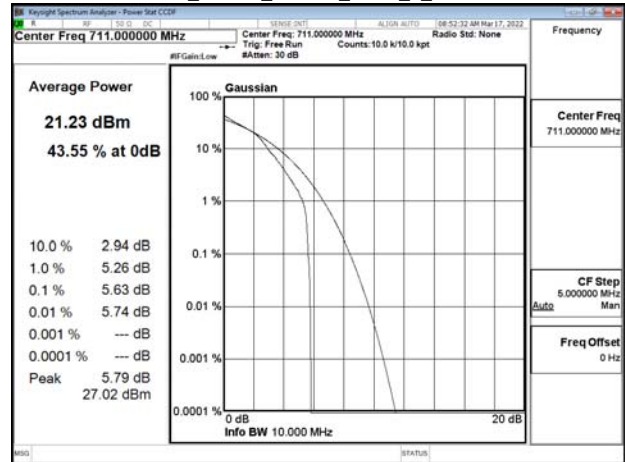
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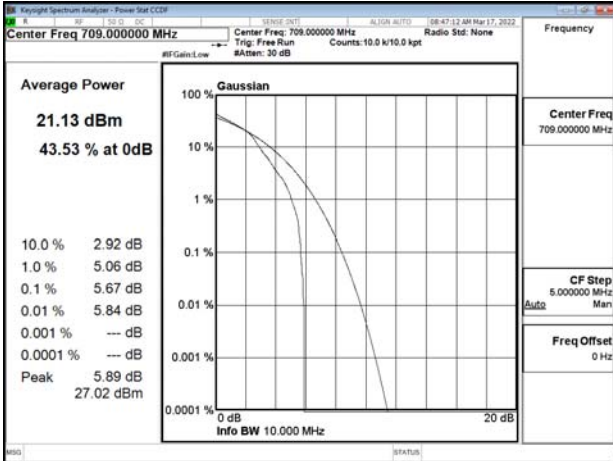
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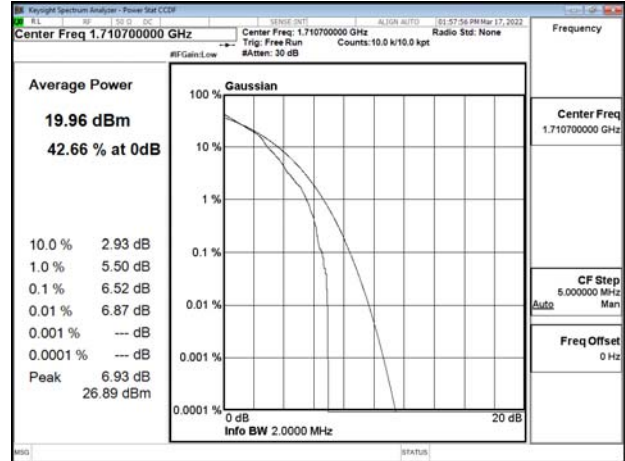
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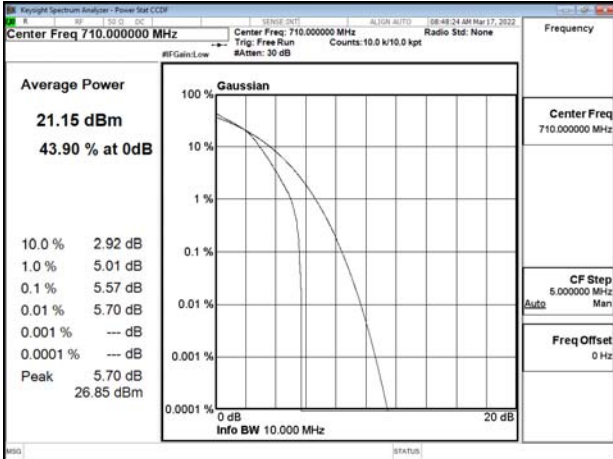
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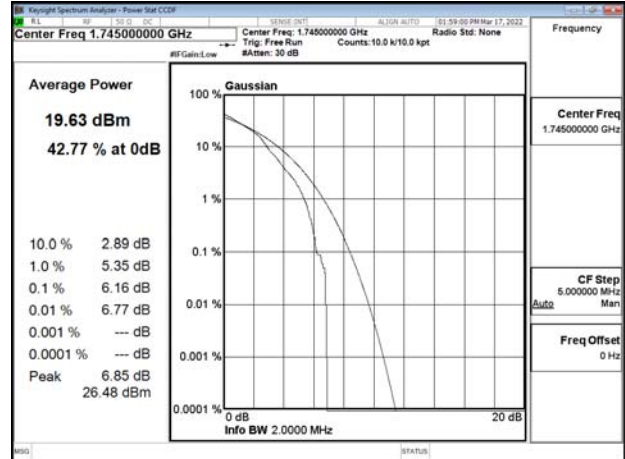
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Band17_10MHz_16QAM_RB16_0_CH23790



Band66_1.4MHz_16QAM_RB6_0_CH132322

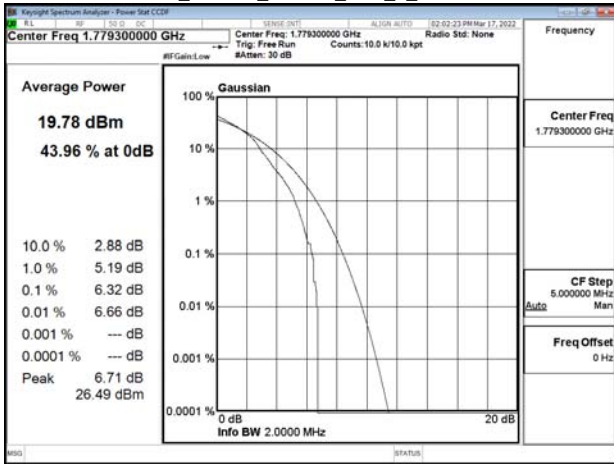


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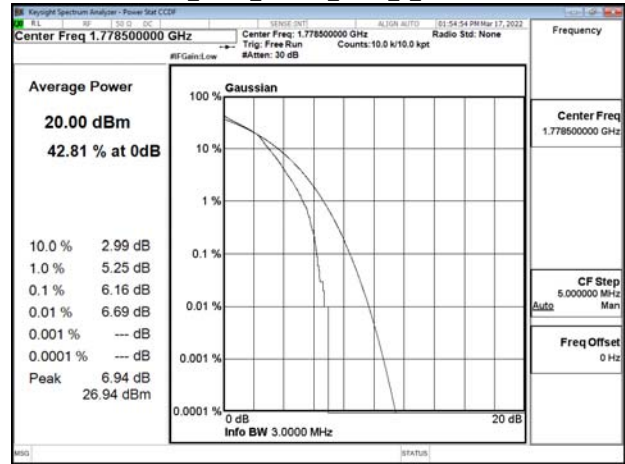
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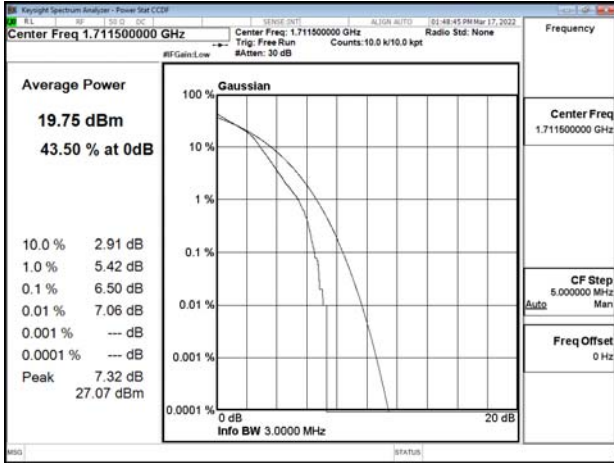
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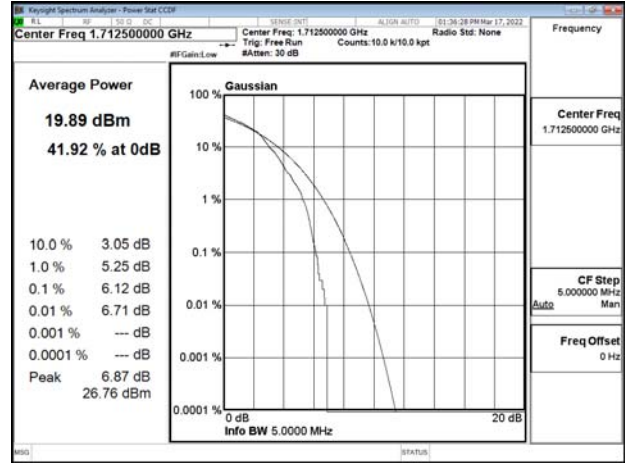
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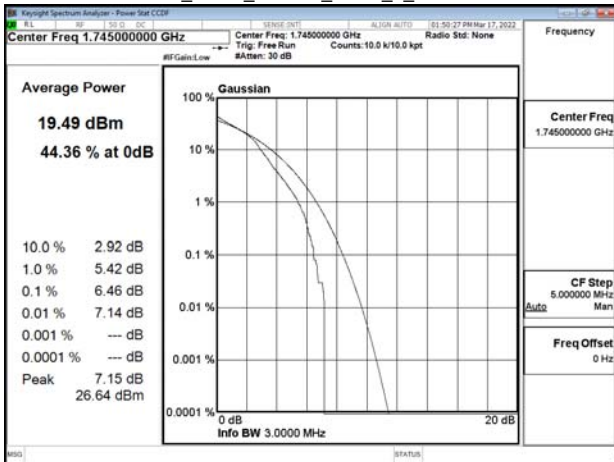
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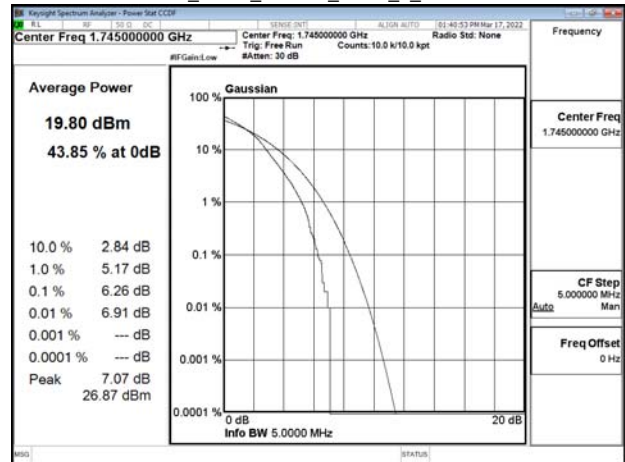
Band66_5MHz_16QAM_RB25_0_CH131997



Band66_3MHz_16QAM_RB15_0_CH132322



Band66_5MHz_16QAM_RB25_0_CH132322

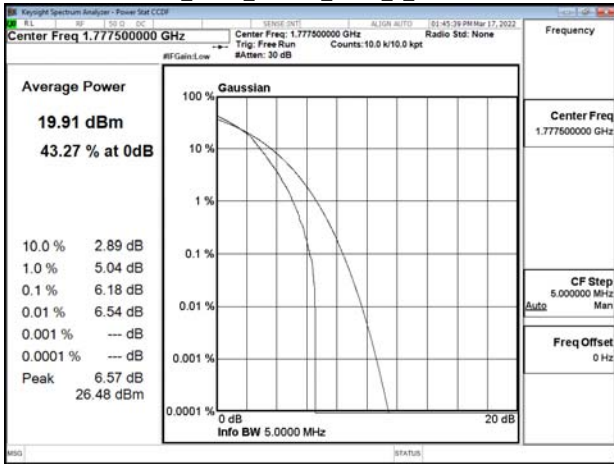


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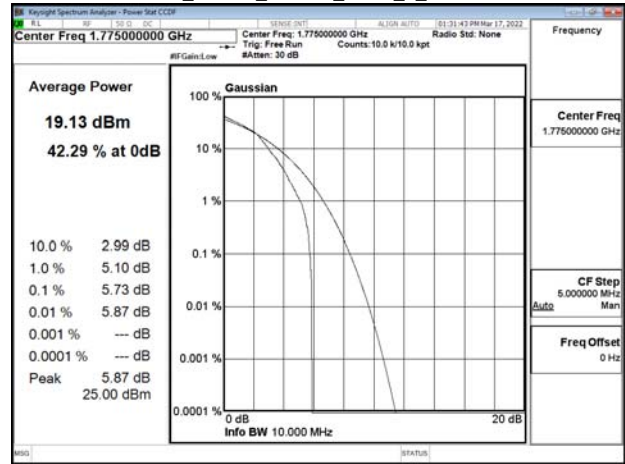
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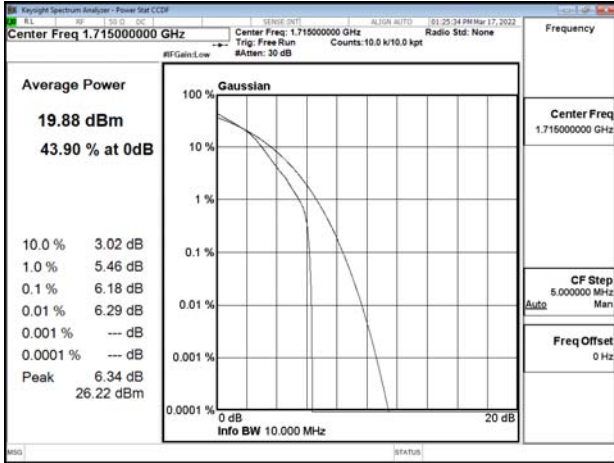
Band66_5MHz_16QAM_RB25_0_CH132647



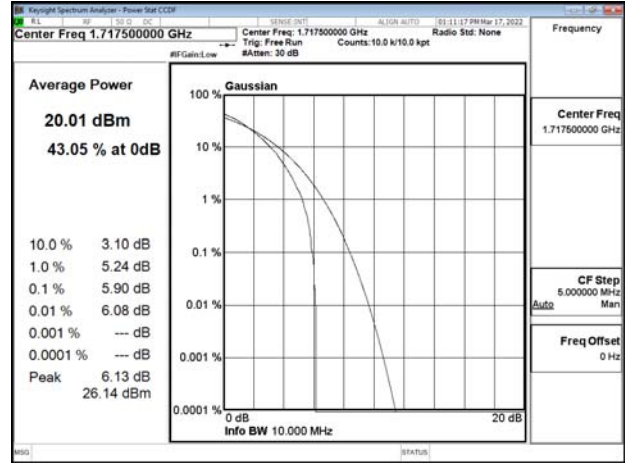
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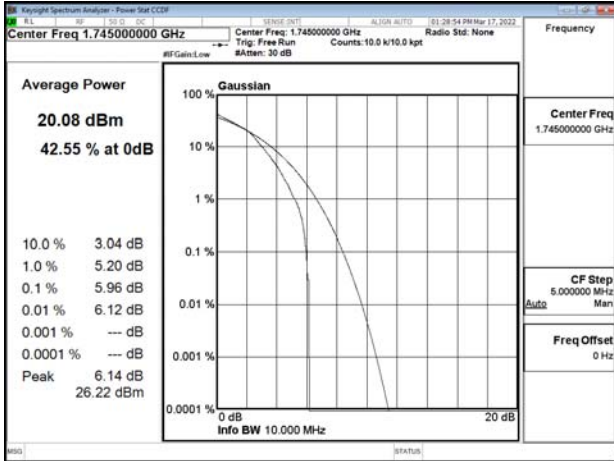
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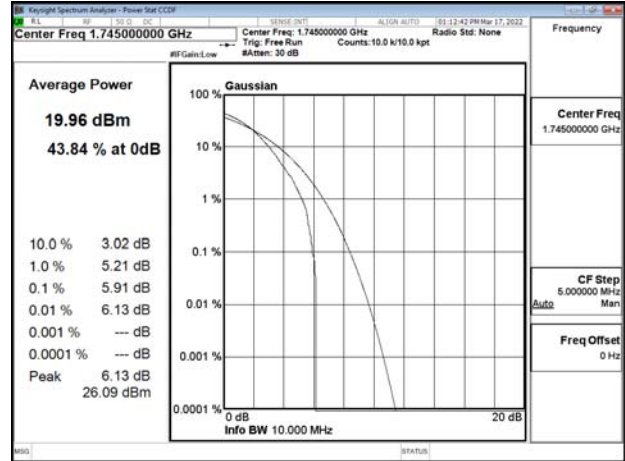
Band66_15MHz_16QAM_RB16_0_CH132047



Band66_10MHz_16QAM_RB16_0_CH132322



Band66_15MHz_16QAM_RB16_0_CH132322

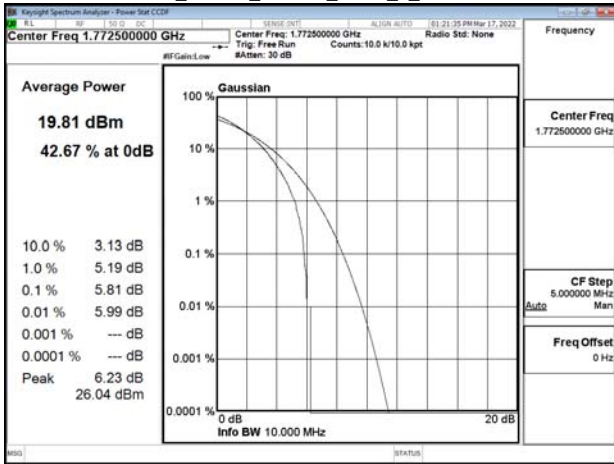


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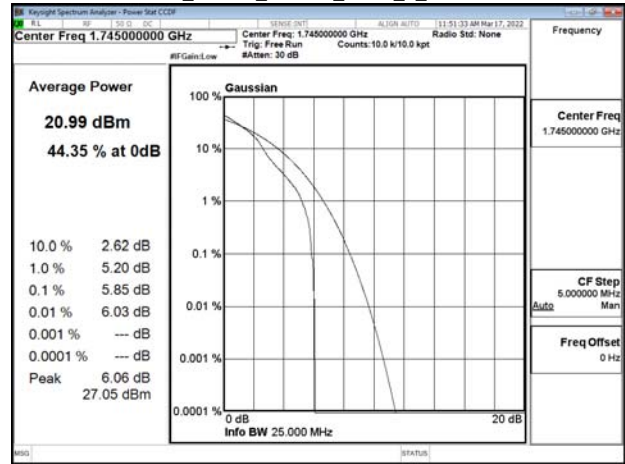
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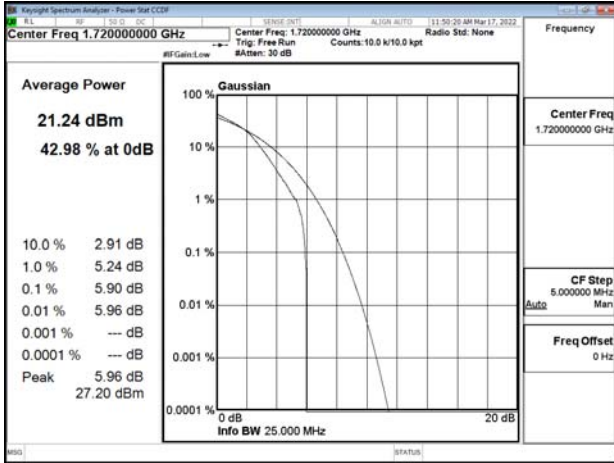
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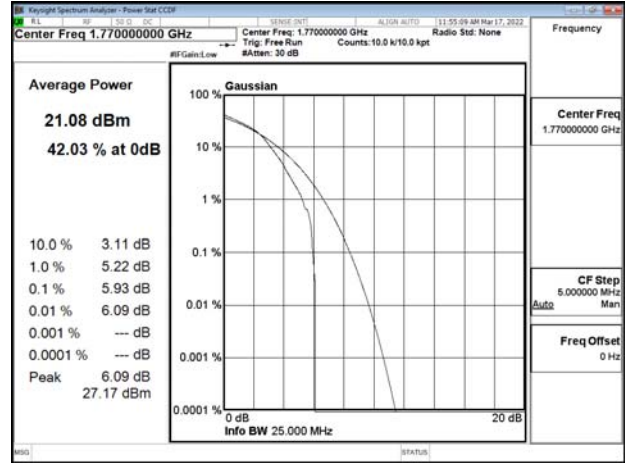
Band66_20MHz_16QAM_RB18_0_CH132322



Band66_20MHz_16QAM_RB18_0_CH132072



Band66_20MHz_16QAM_RB18_0_CH132572



~ End of Report ~

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