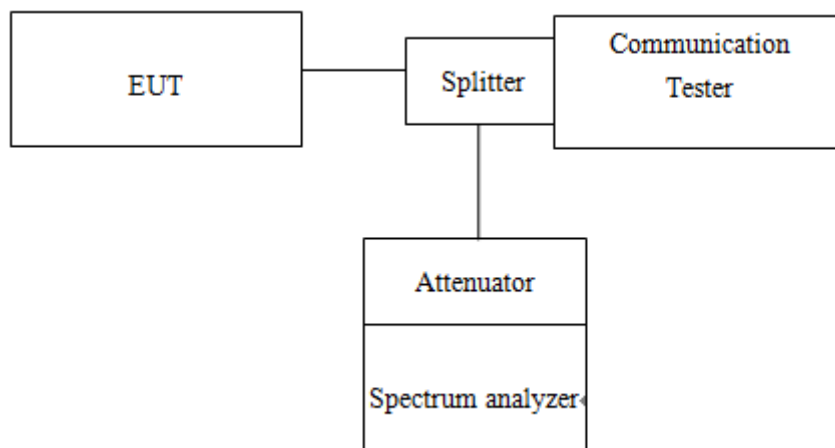


12 PEAK TO AVERAGE RATIO

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

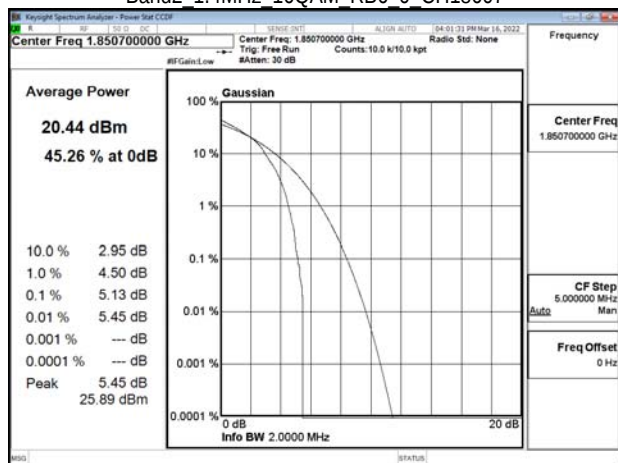
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	132047	5.90	13	1720.0	132072	5.90	13
1745.0	132322	5.91	13	1745.0	132322	5.85	13
1772.5	132597	5.81	13	1770.0	132572	5.93	13

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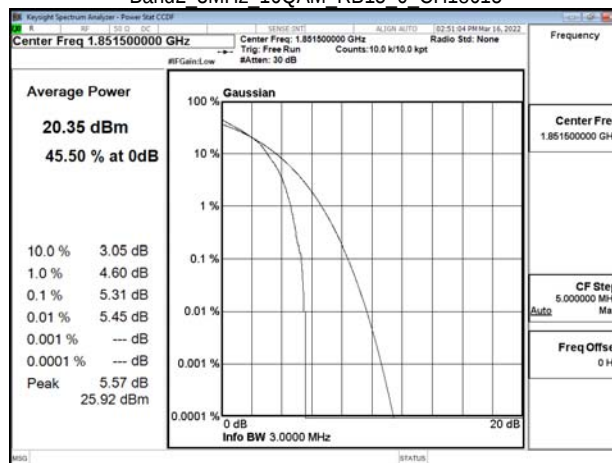
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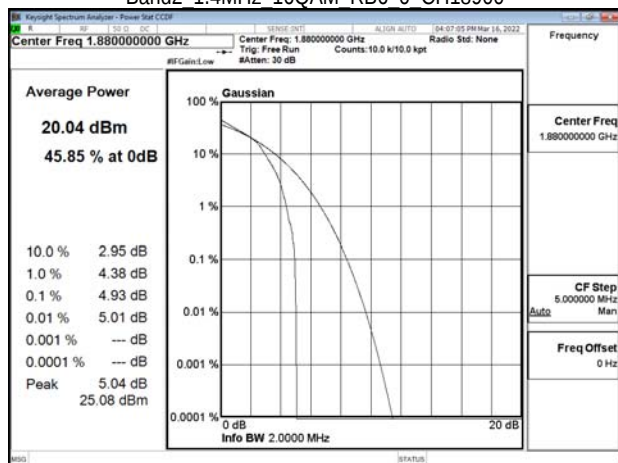
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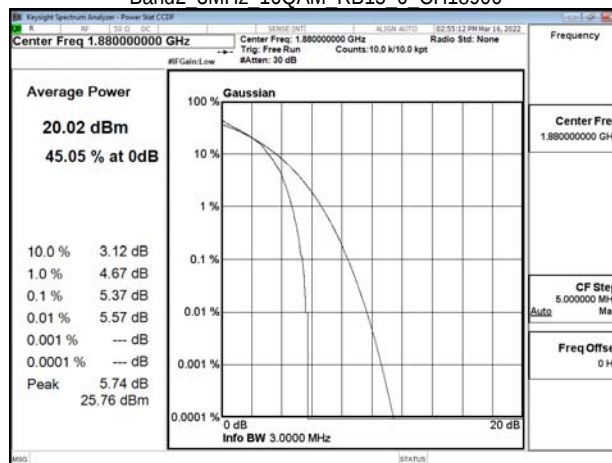
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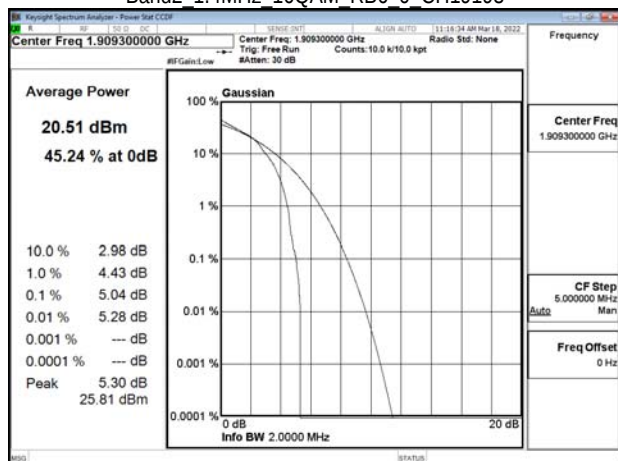
Band2 1.4MHz 16QAM RB6 0 CH18900



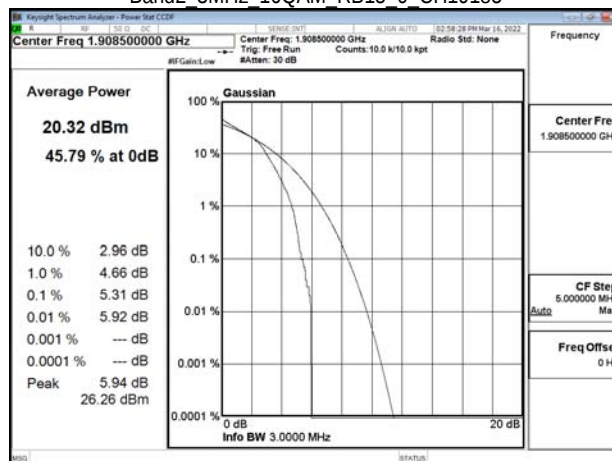
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Band2 1.4MHz 16QAM RB6 0 CH19193



Band2 3MHz 16QAM RB15 0 CH19185

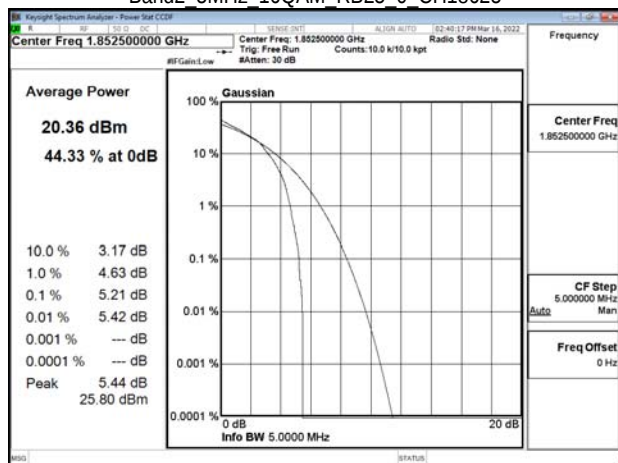


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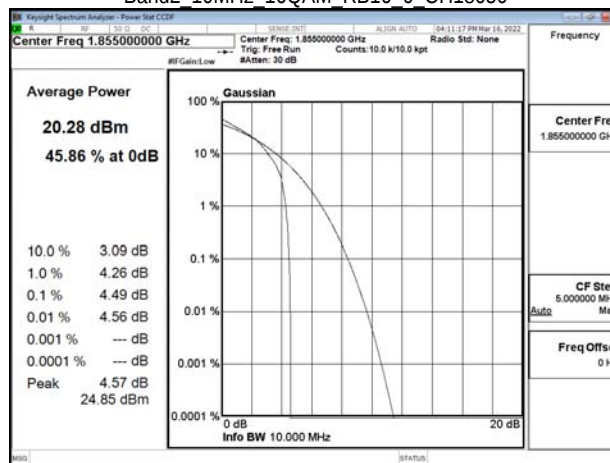
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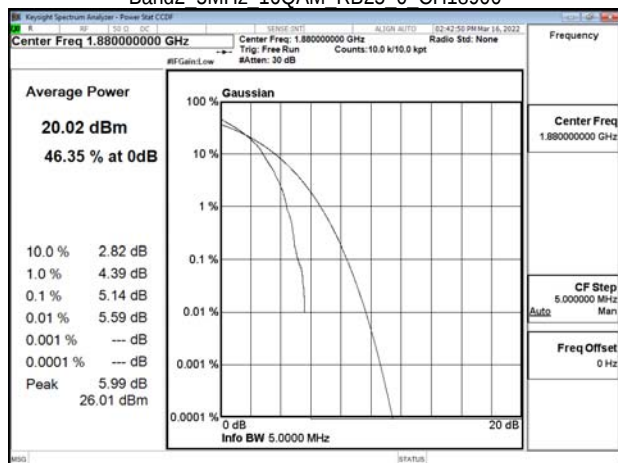
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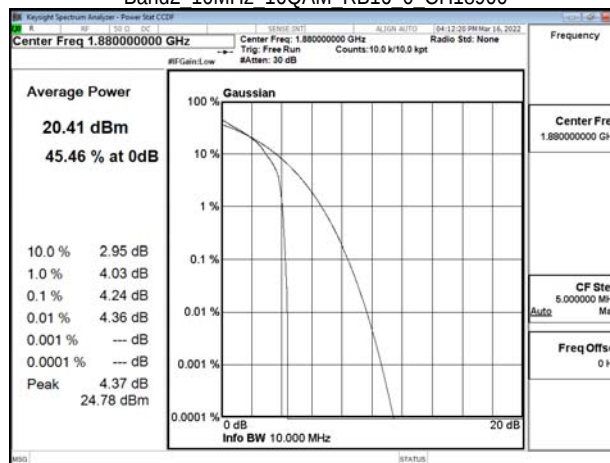
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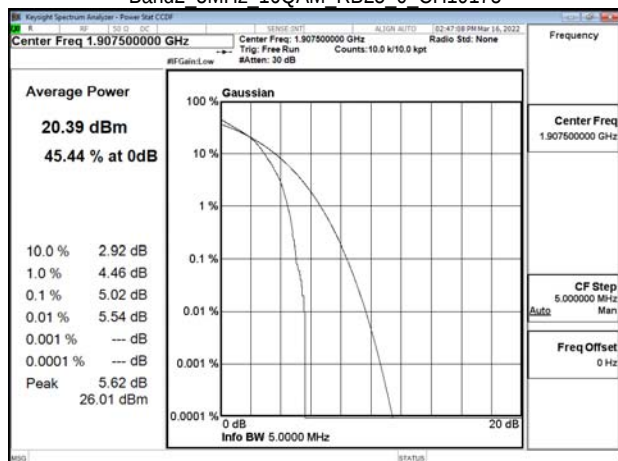
Band2 5MHz 16QAM RB25 0 CH18900



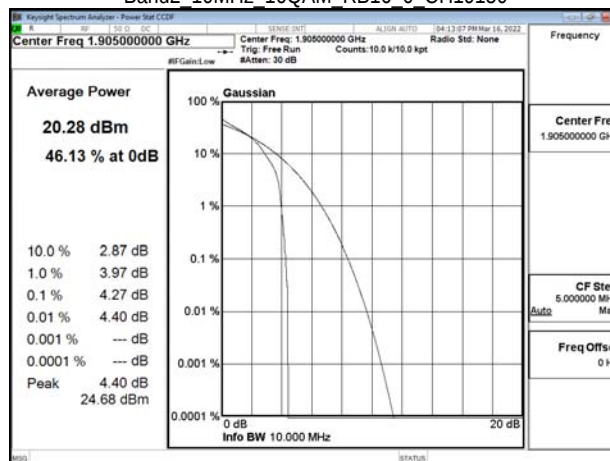
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Band2 5MHz 16QAM RB25 0 CH19175



Band2 10MHz 16QAM RB16 0 CH19150

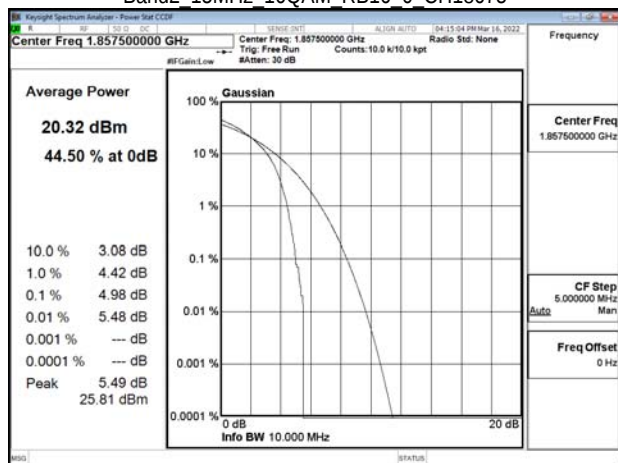


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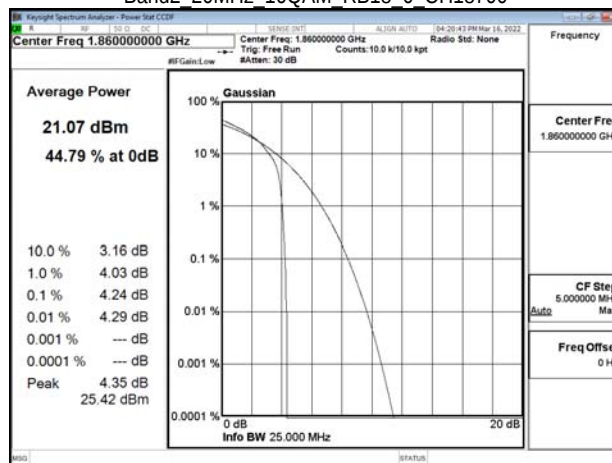
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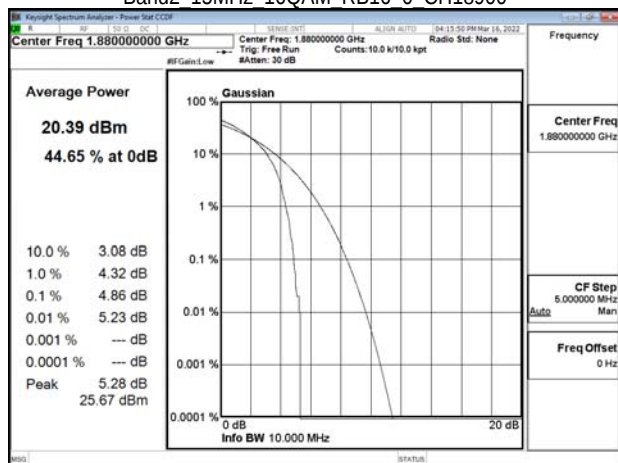
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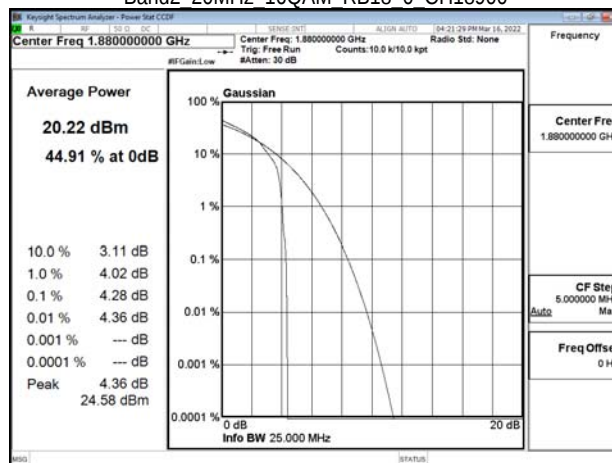
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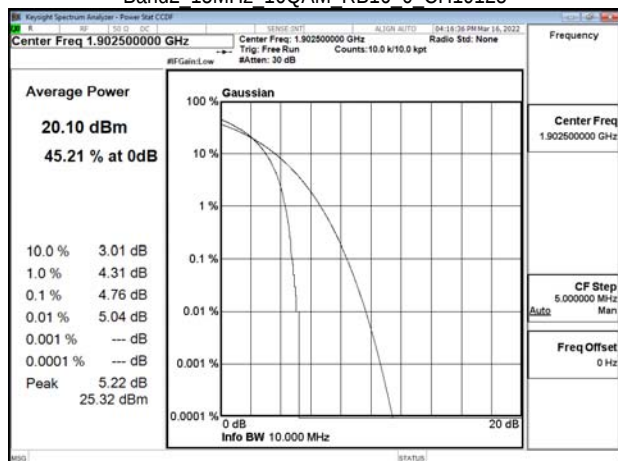
Band2 15MHz 16QAM RB16 0 CH18900



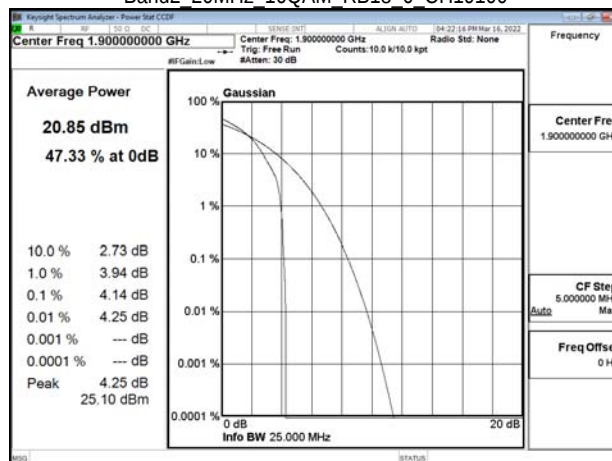
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Band2 15MHz 16QAM RB16 0 CH19125



Band2 20MHz 16QAM RB18 0 CH19100

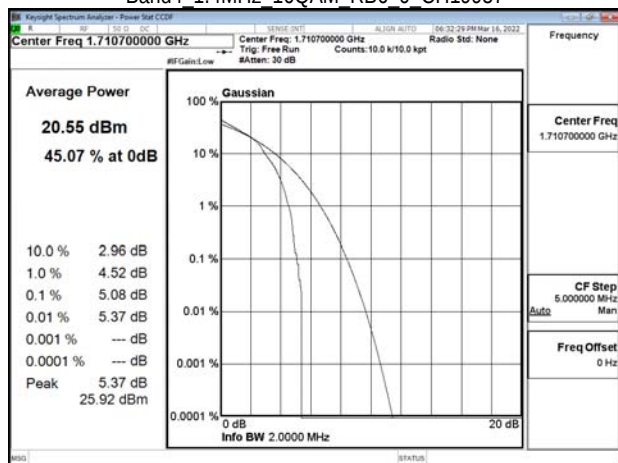


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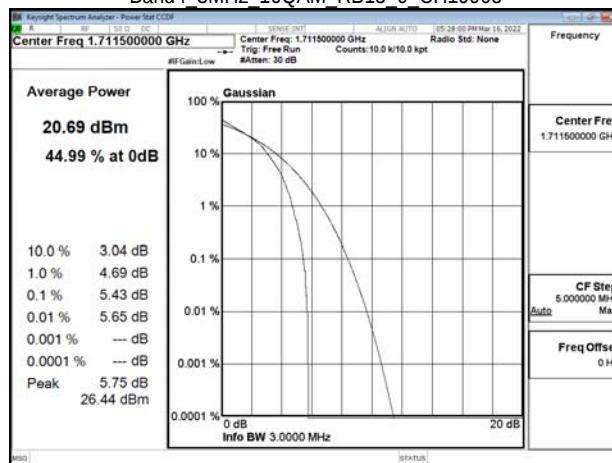
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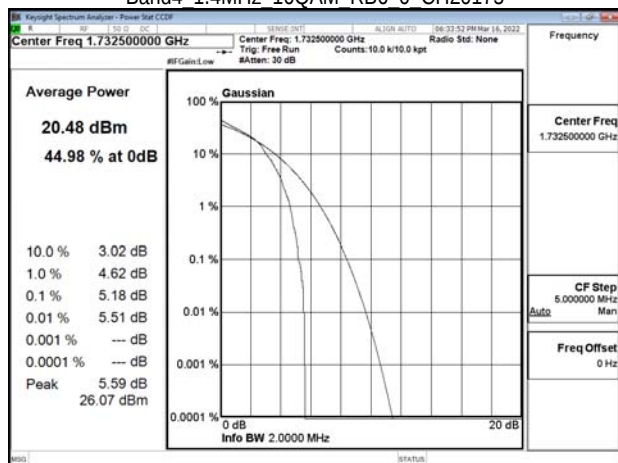
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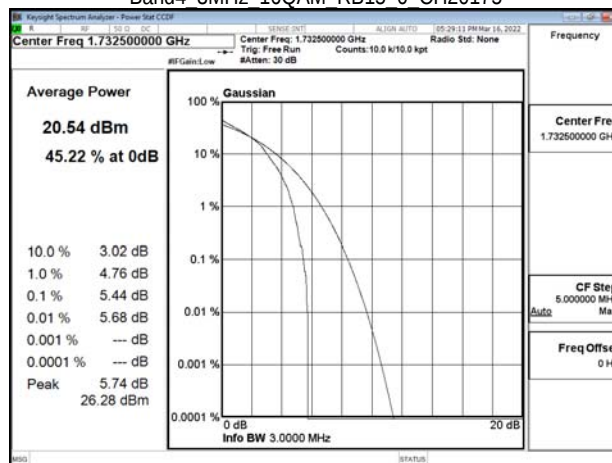
Band4 3MHz 16QAM RB15 0 CH19965



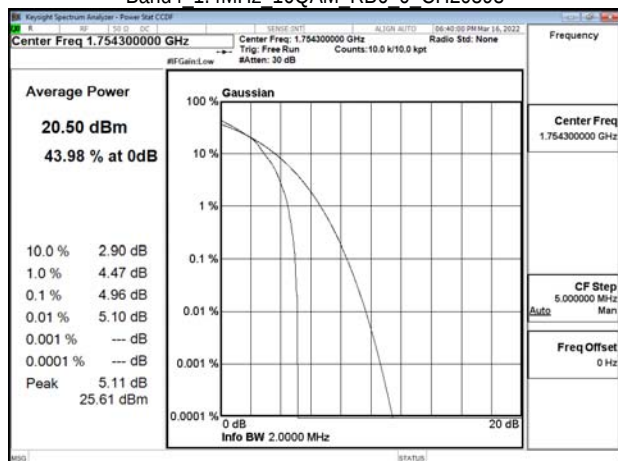
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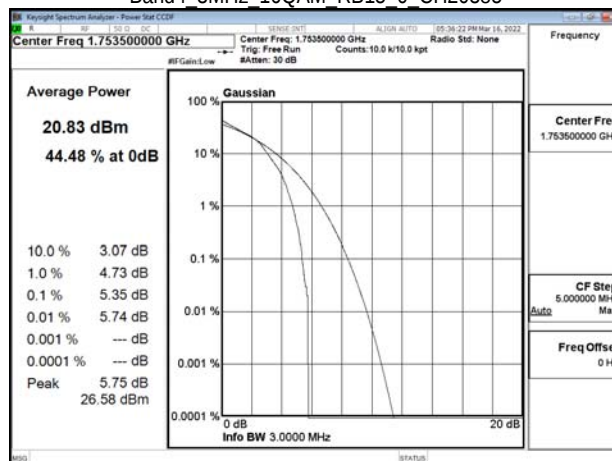
Band4 3MHz 16QAM RB15 0 CH20175



Band4 1.4MHz 16QAM RB6 0 CH20393



Band4 3MHz 16QAM RB15 0 CH20385

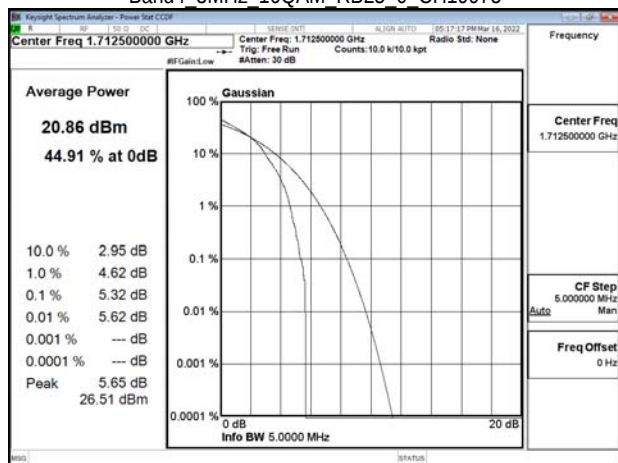


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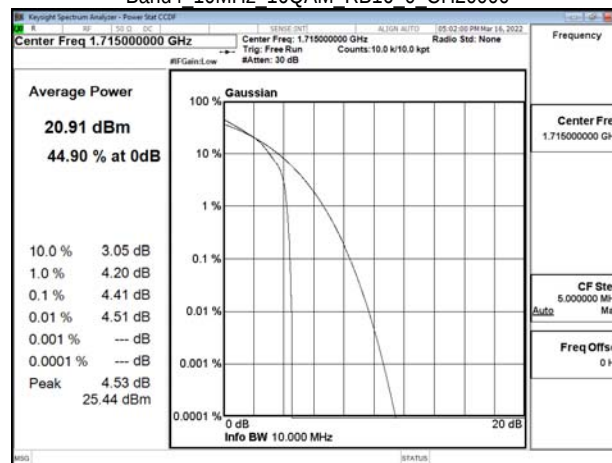
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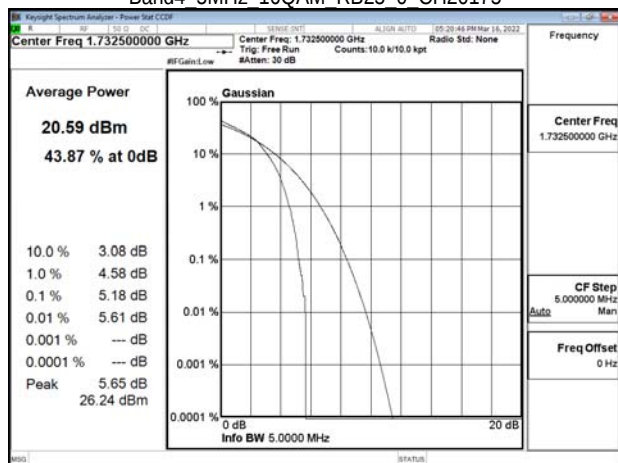
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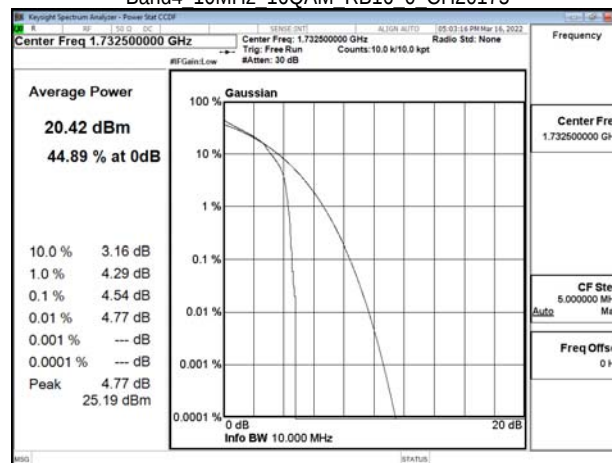
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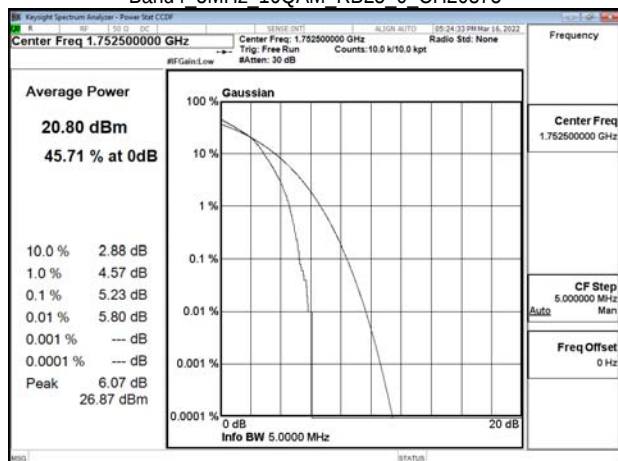
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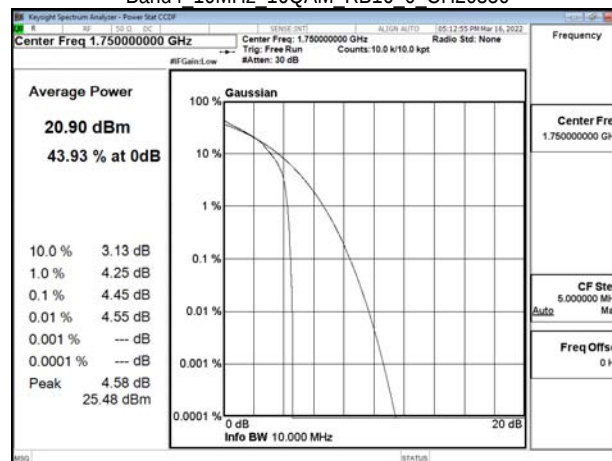
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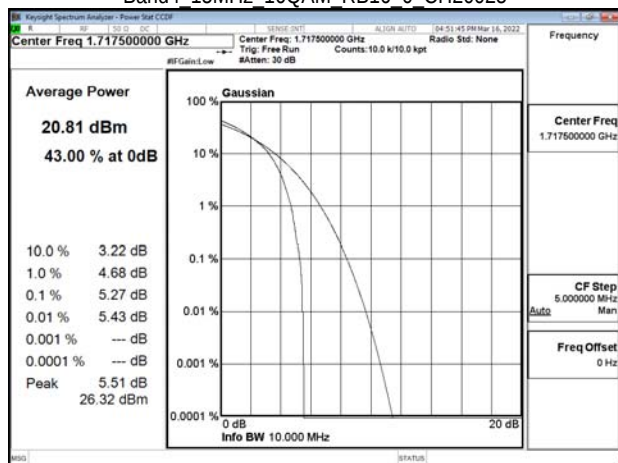


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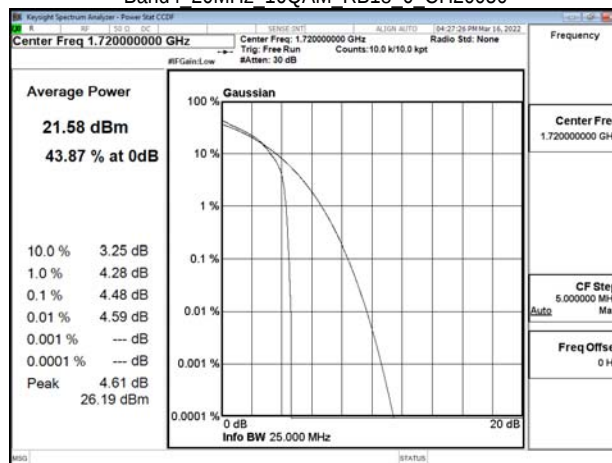
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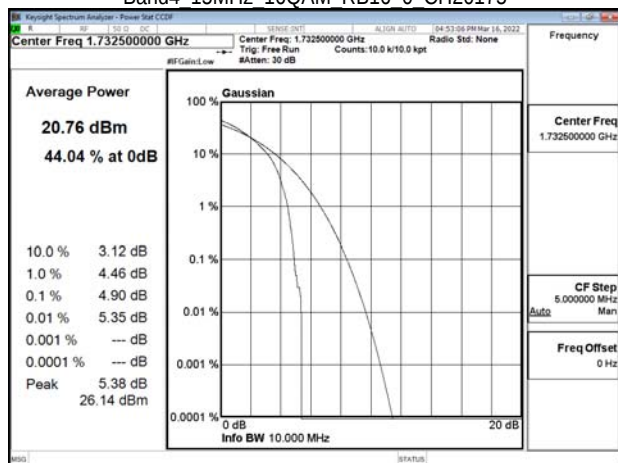
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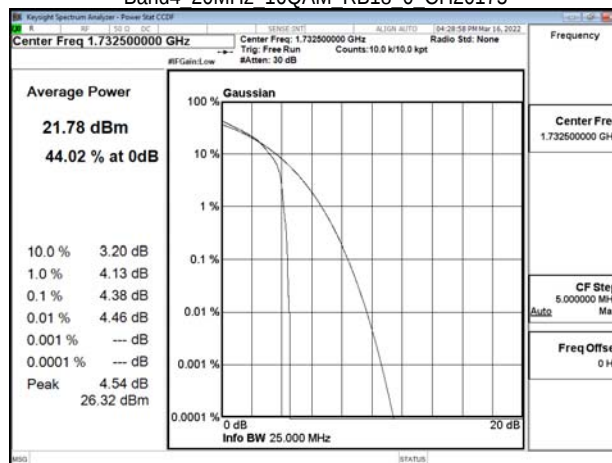
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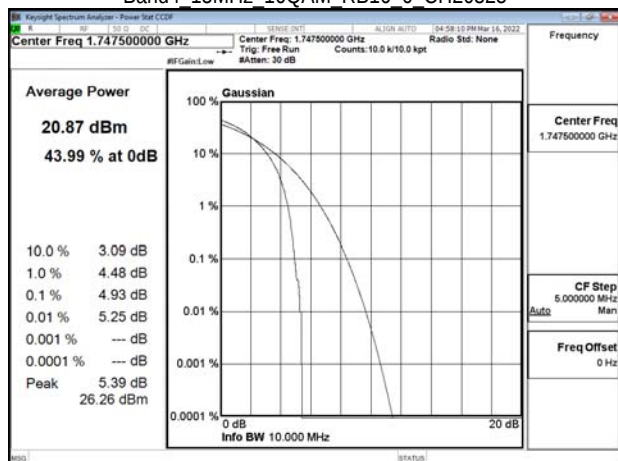
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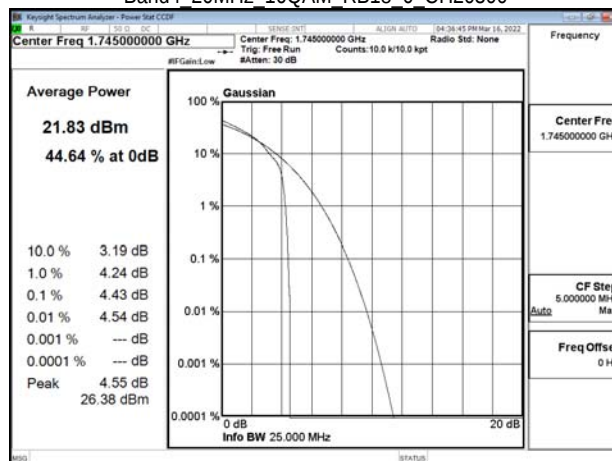
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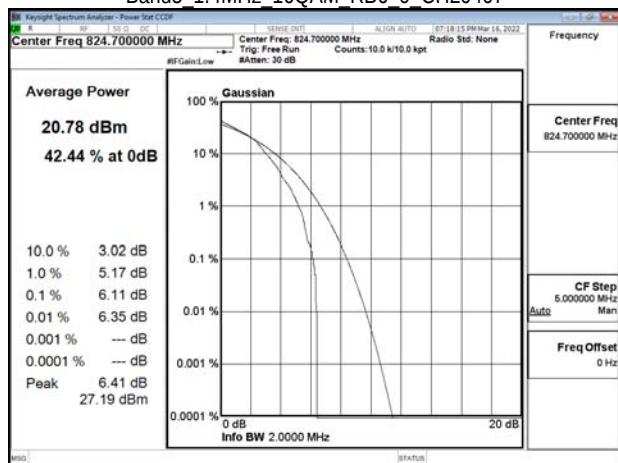


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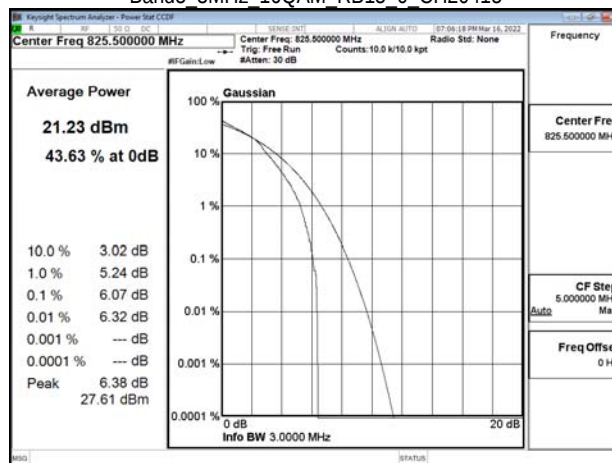
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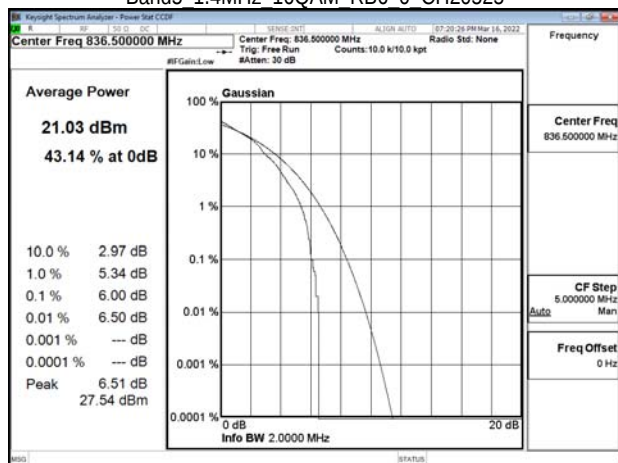
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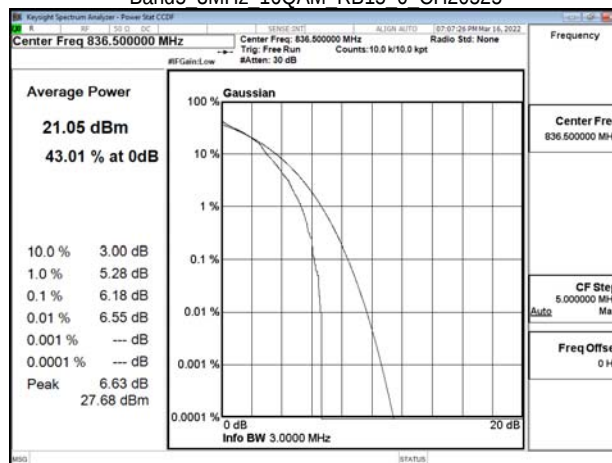
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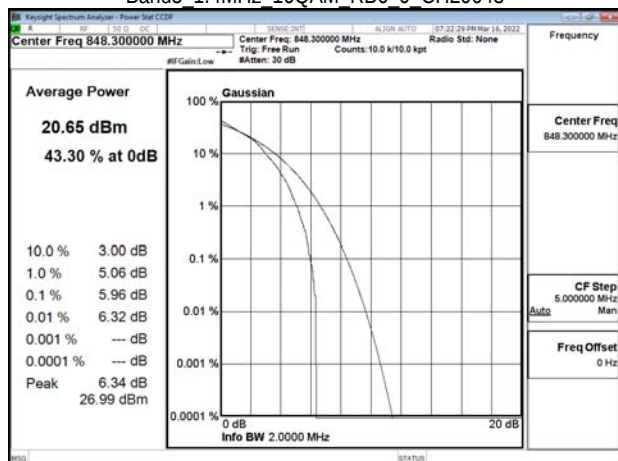
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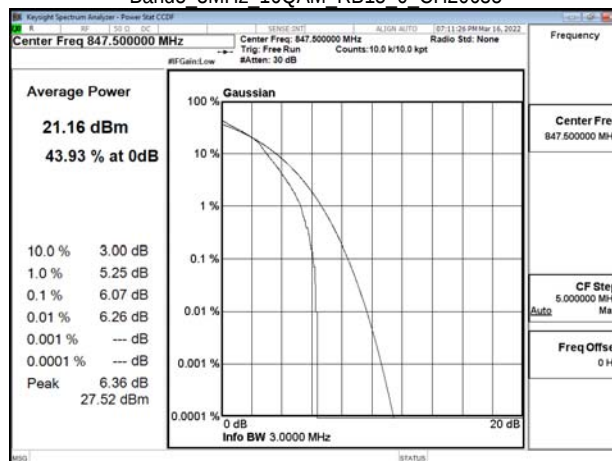
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Band5 1.4MHz 16QAM RB6 0 CH20643



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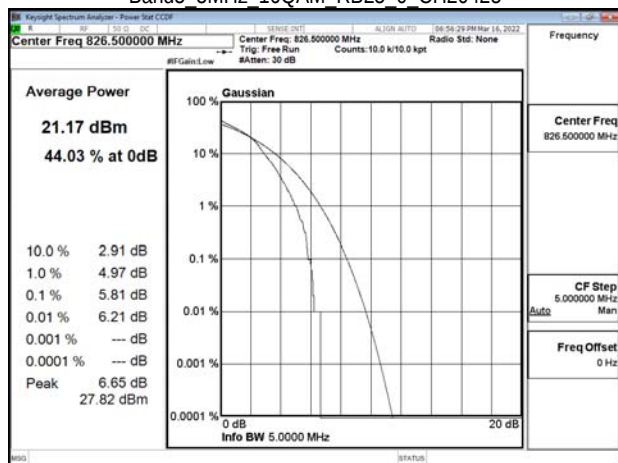


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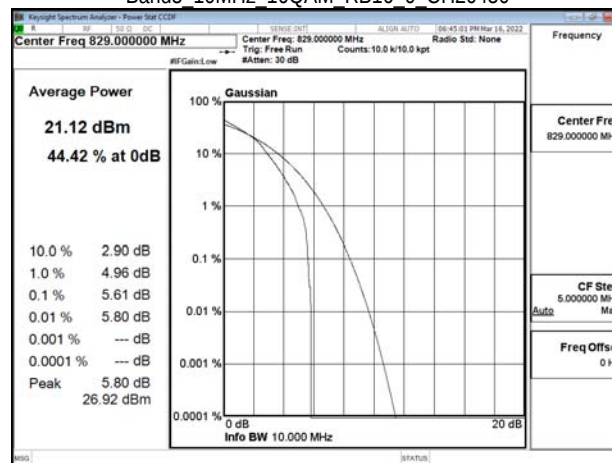
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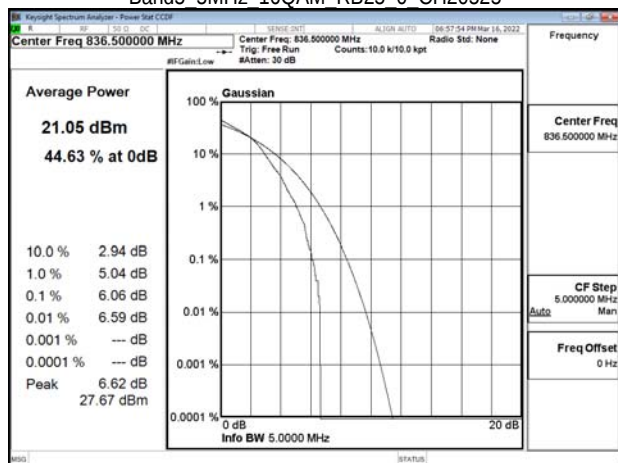
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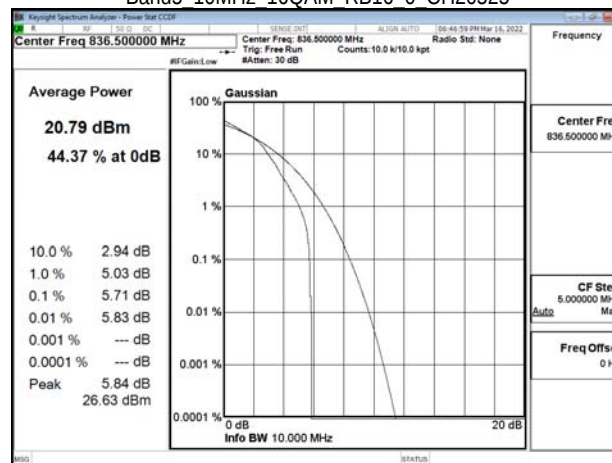
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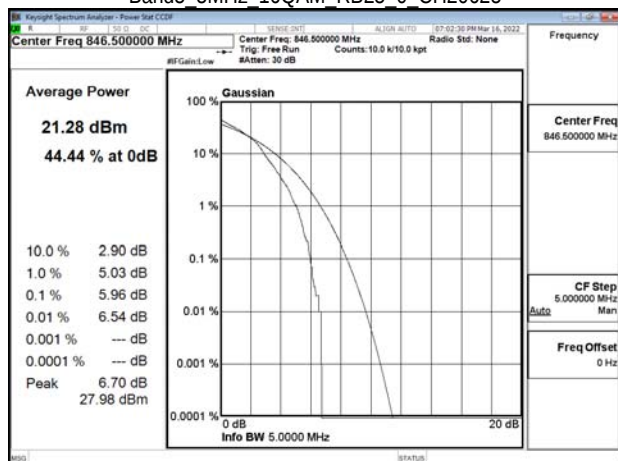
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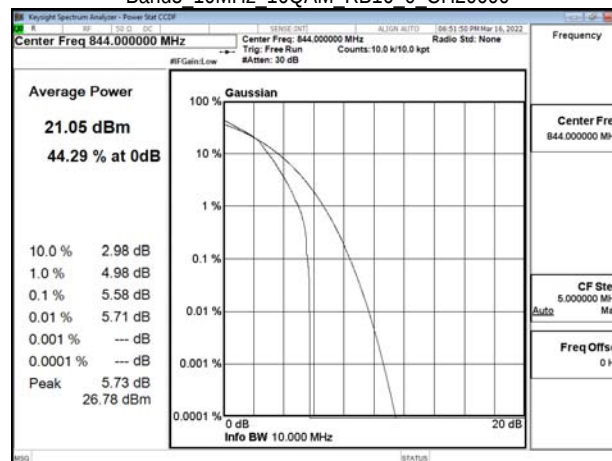
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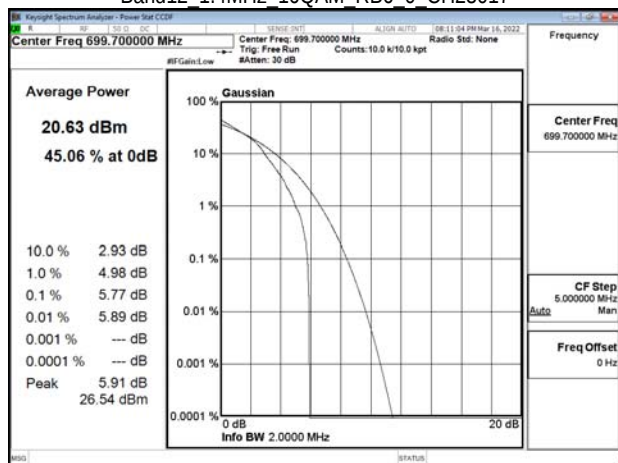


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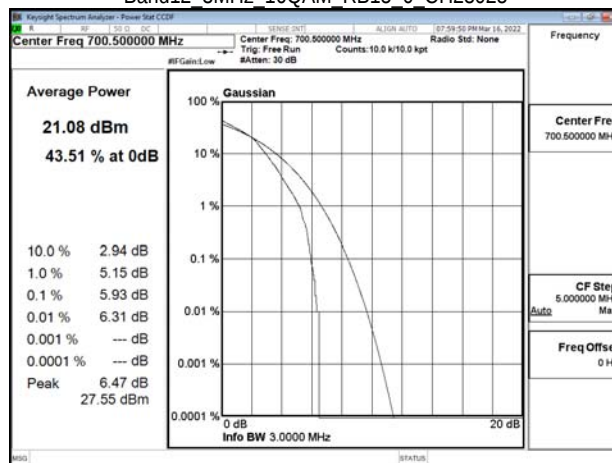
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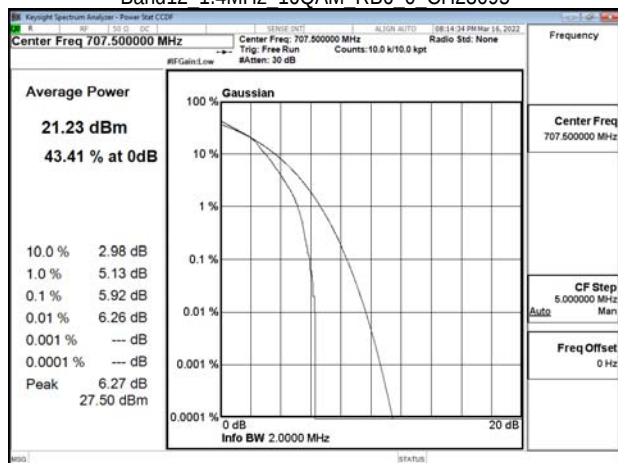
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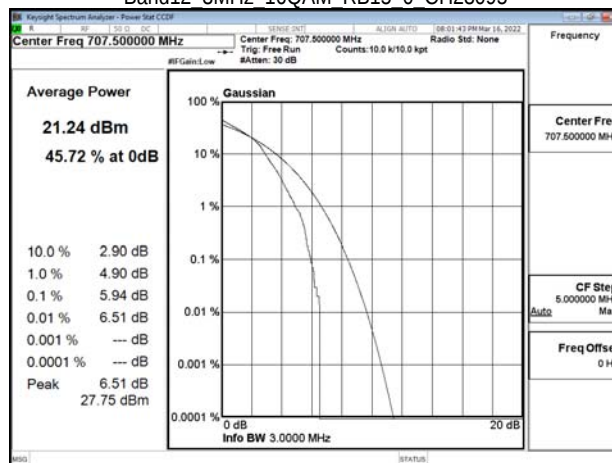
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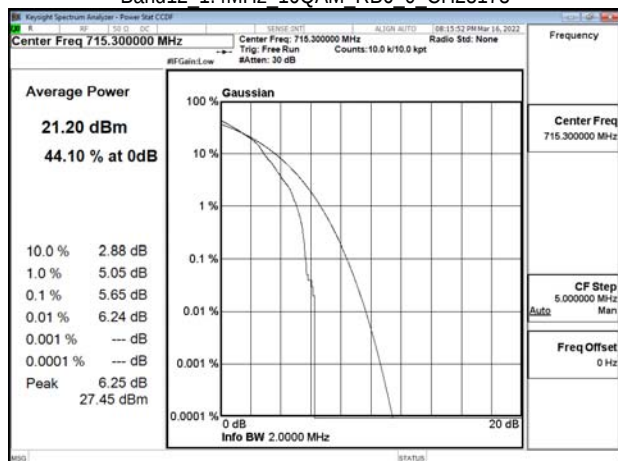
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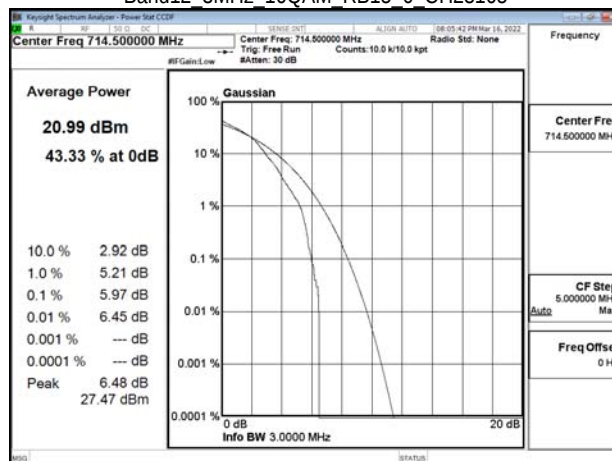
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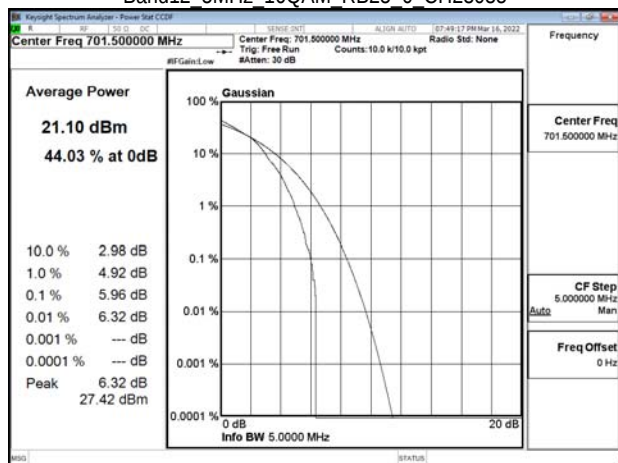


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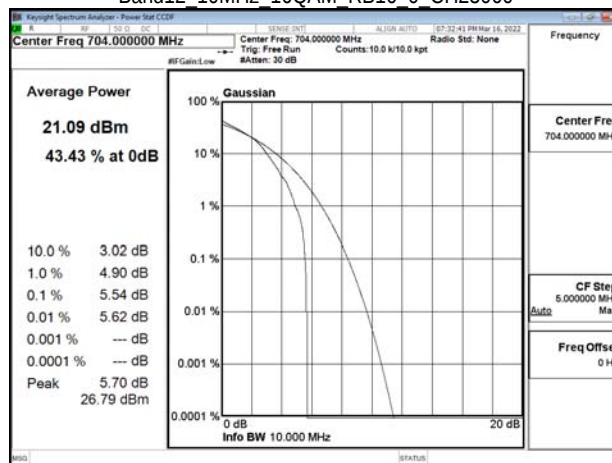
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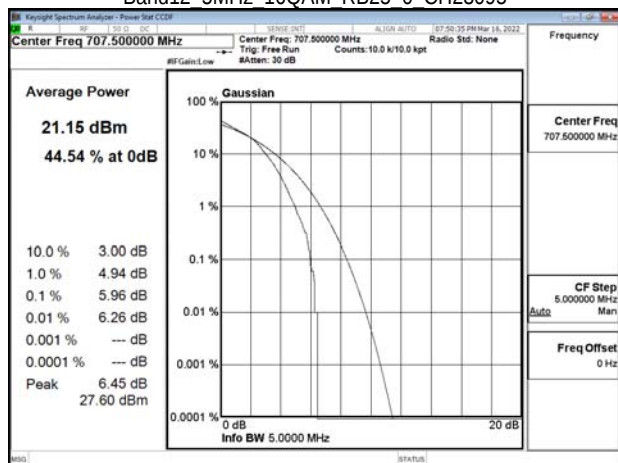
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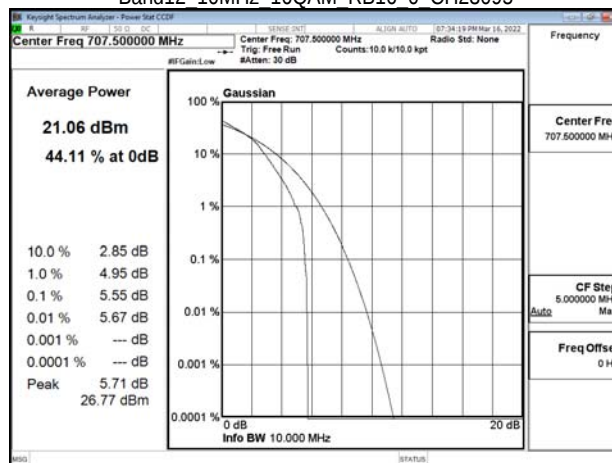
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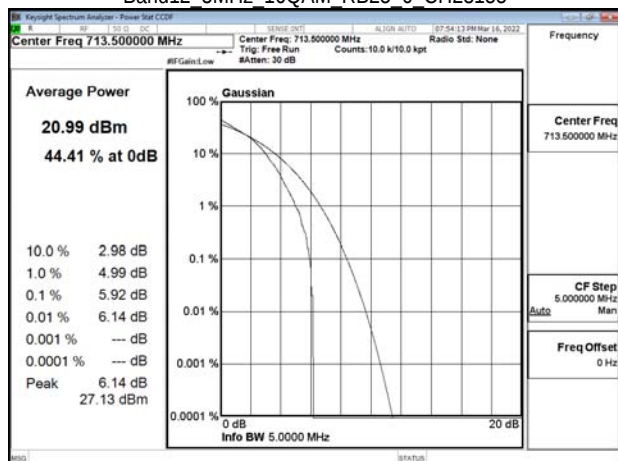
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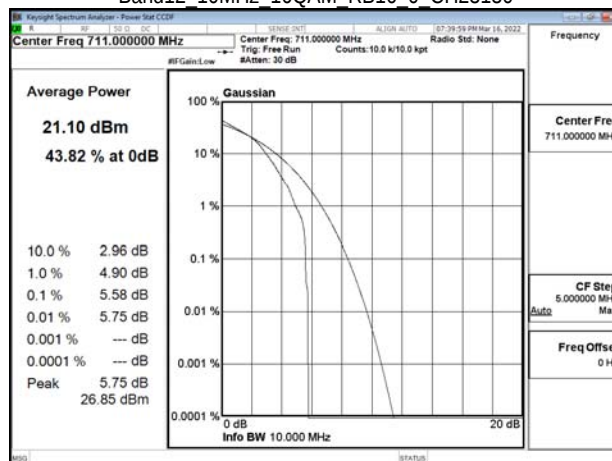
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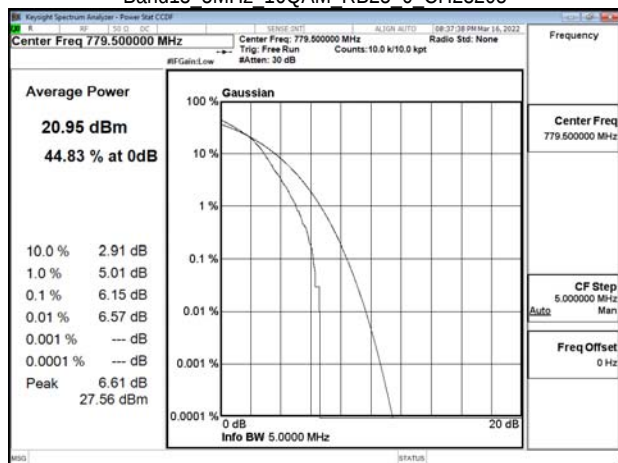


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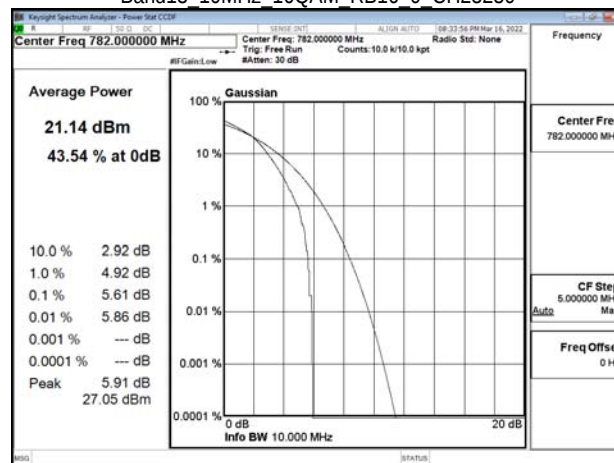
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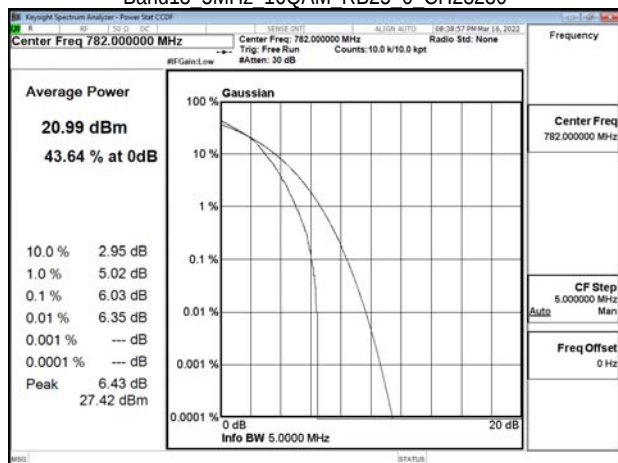
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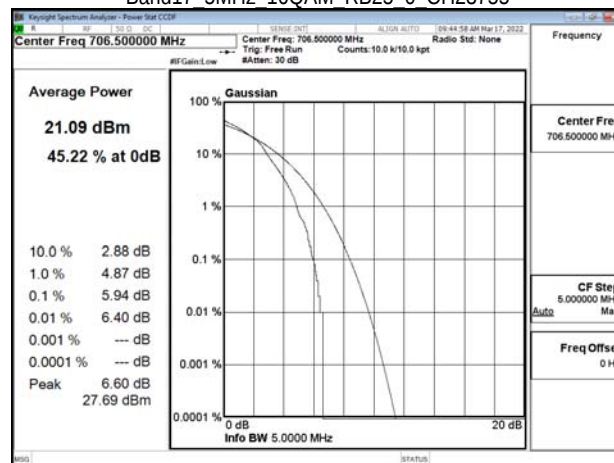
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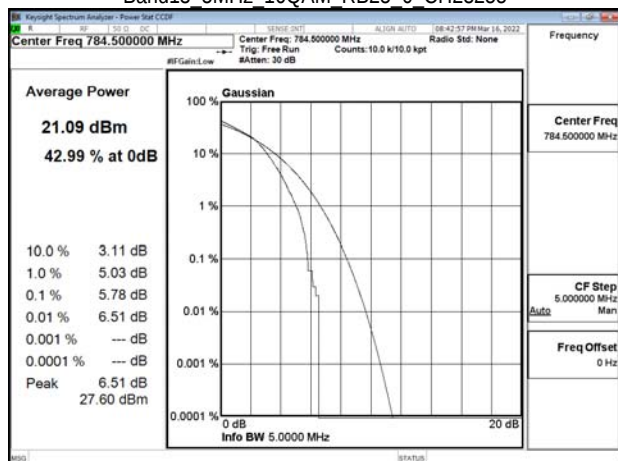
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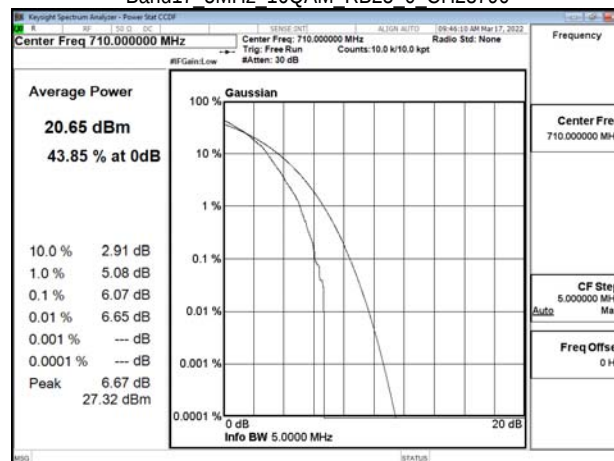
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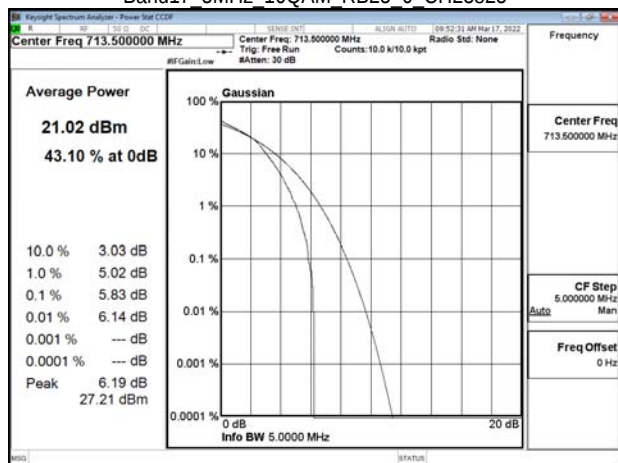


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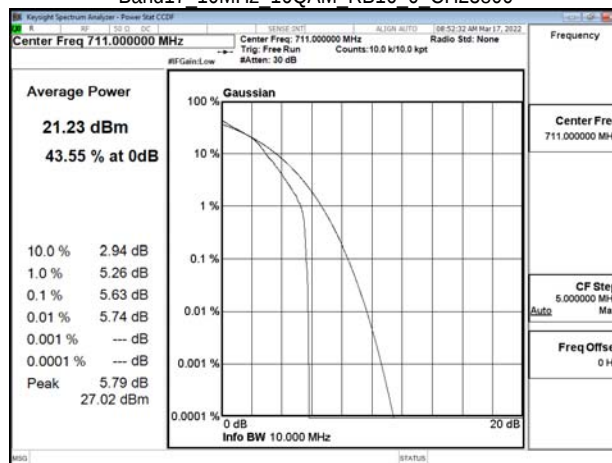
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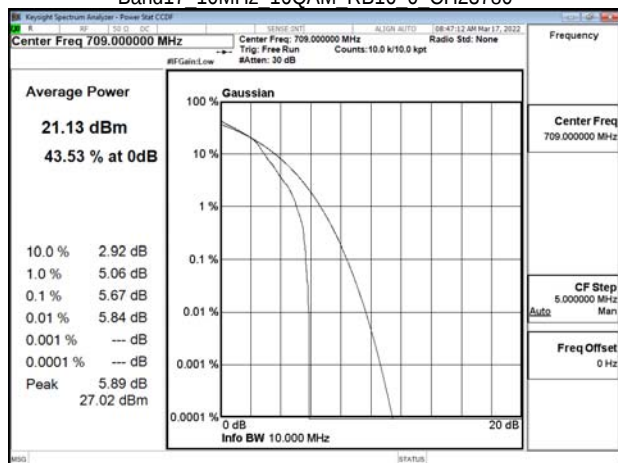
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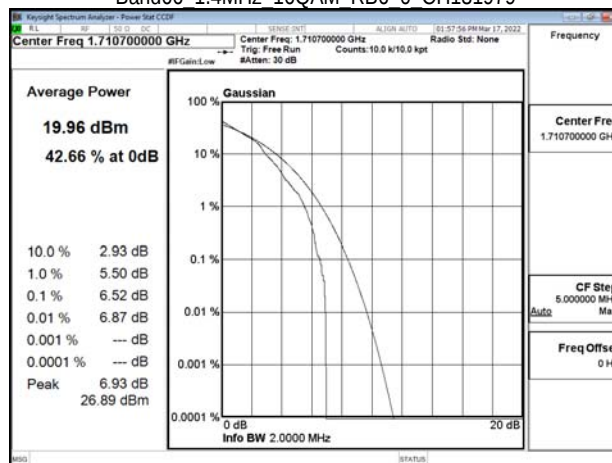
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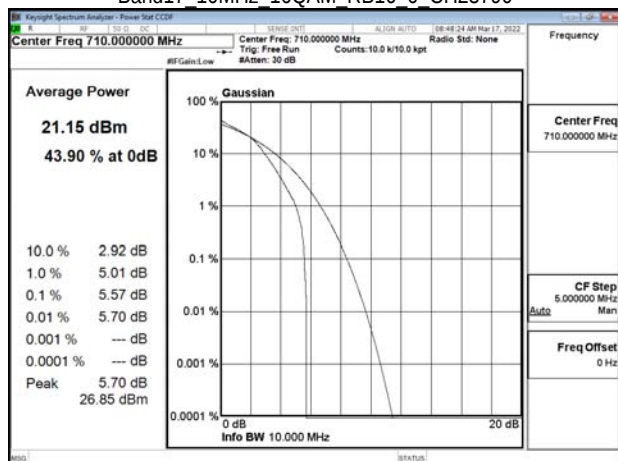
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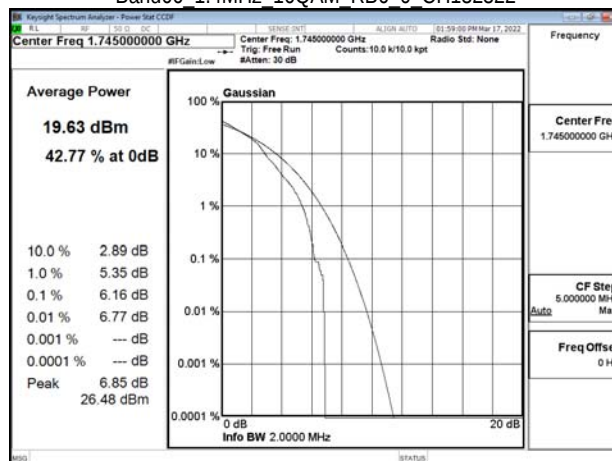
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Band17 10MHz 16QAM RB16 0 CH23790



Band66 1.4MHz 16QAM RB6 0 CH132322

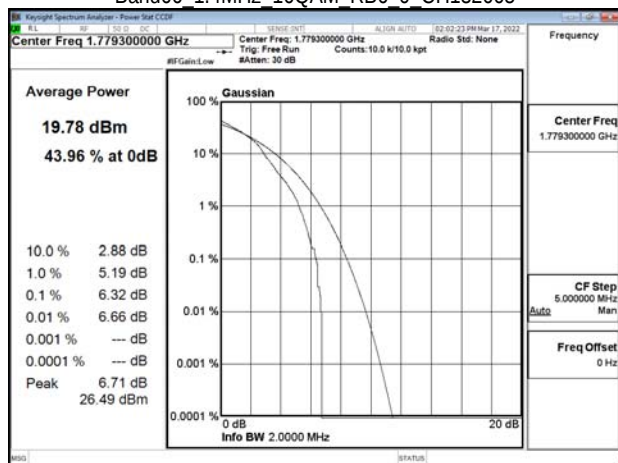


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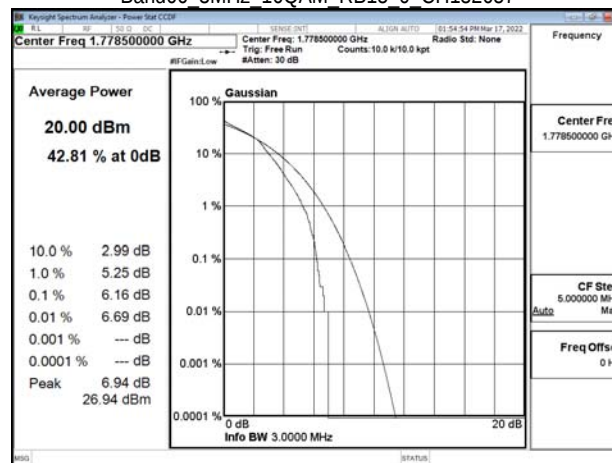
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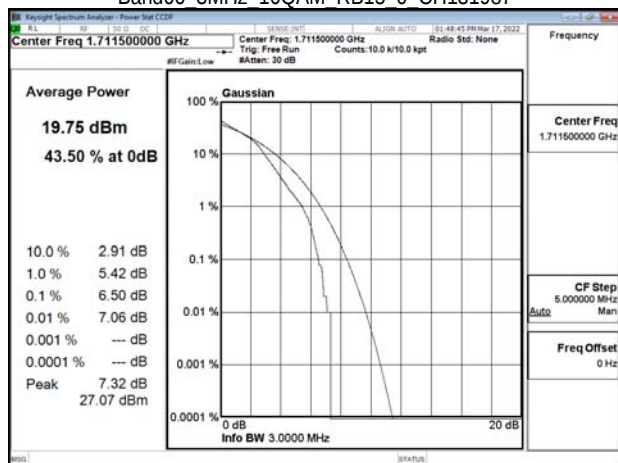
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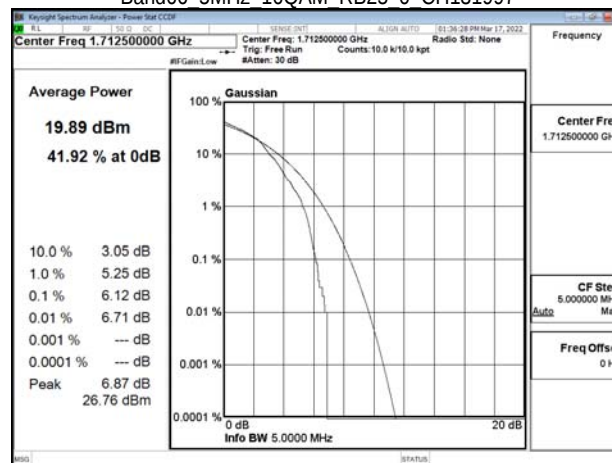
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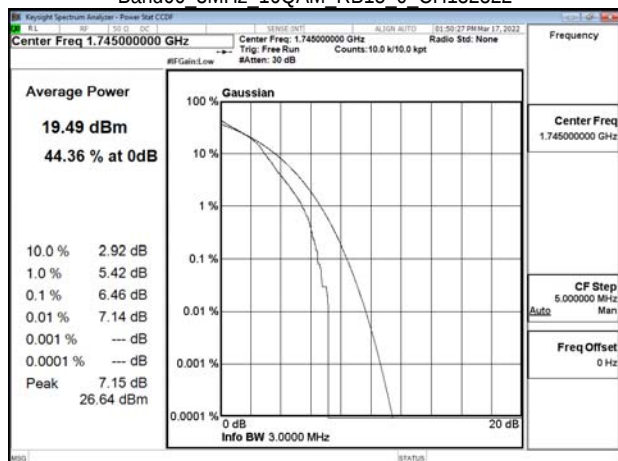
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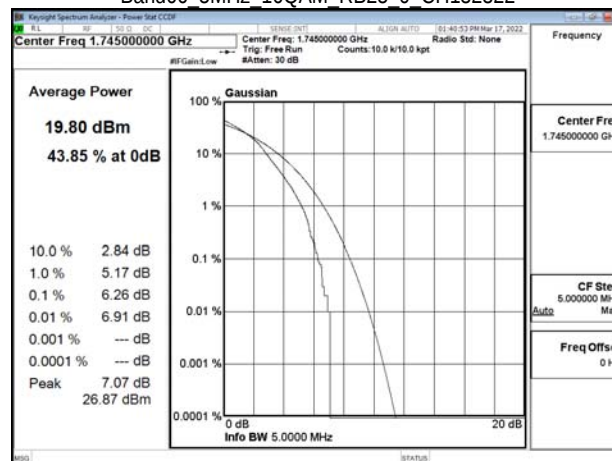
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Band66 3MHz 16QAM RB15 0 CH132322



Band66 5MHz 16QAM RB25 0 CH132322

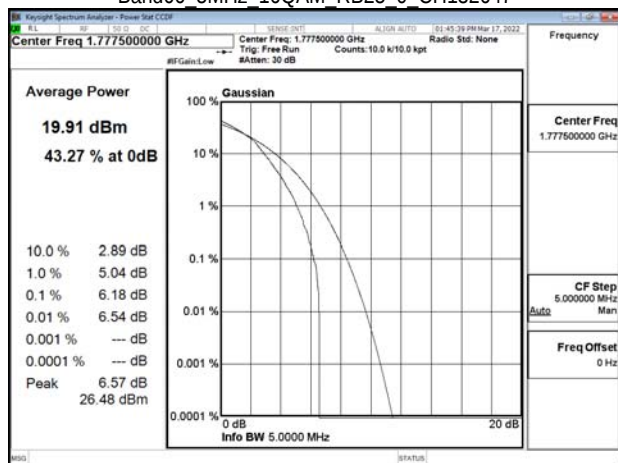


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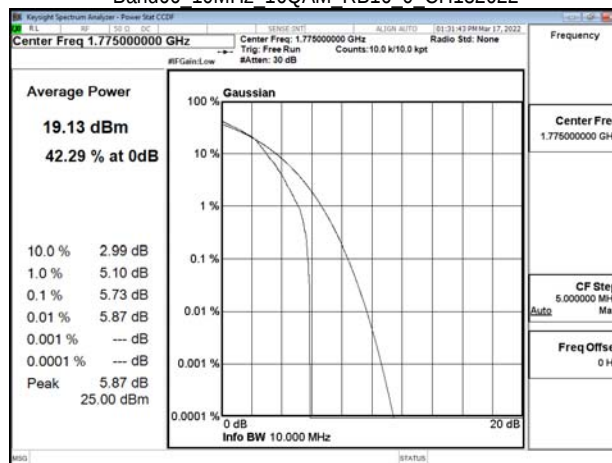
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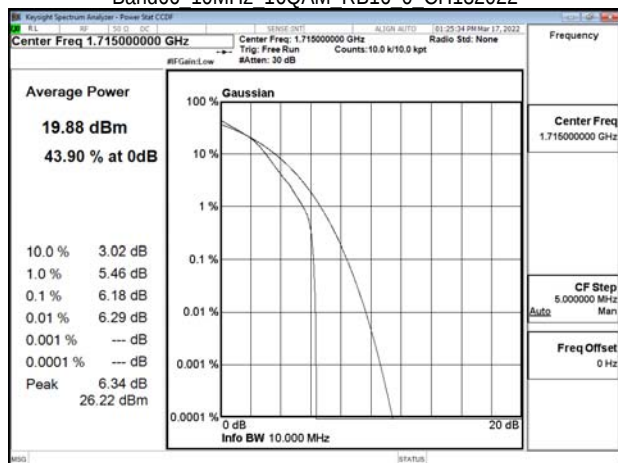
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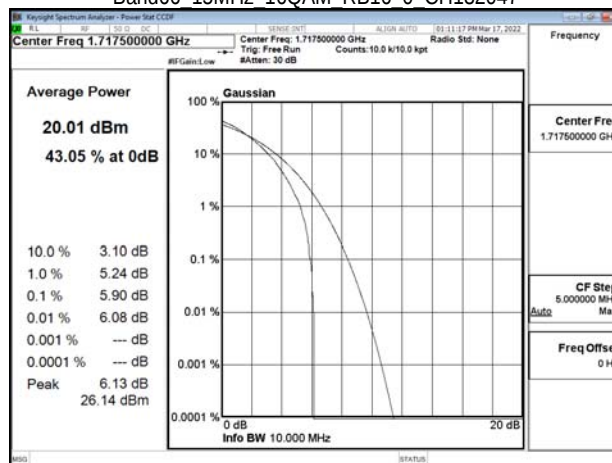
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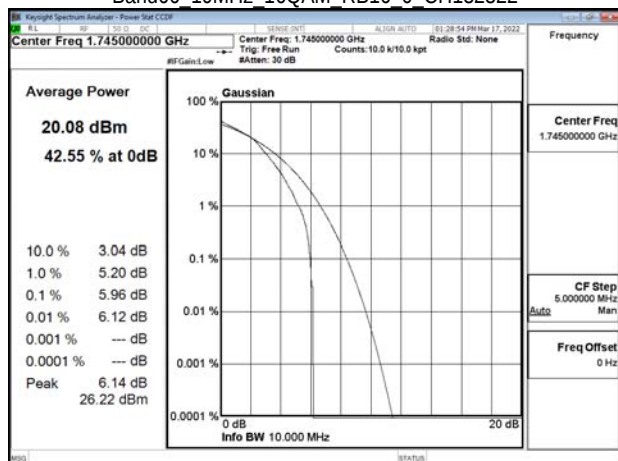
Band66 10MHz 16QAM RB16 0 CH132022



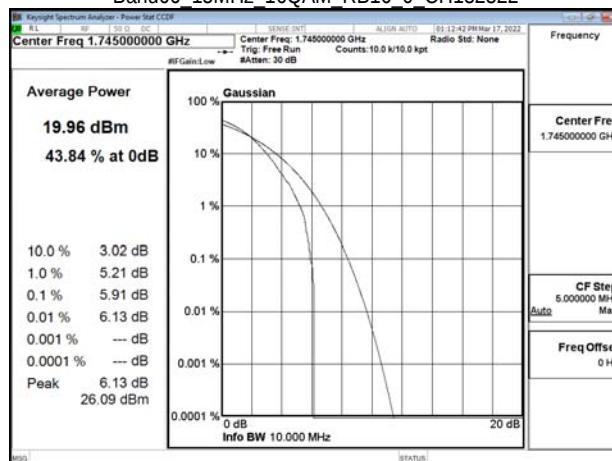
Band66 15MHz 16QAM RB16 0 CH132047



Band66 10MHz 16QAM RB16 0 CH132322



Band66 15MHz 16QAM RB16 0 CH132322

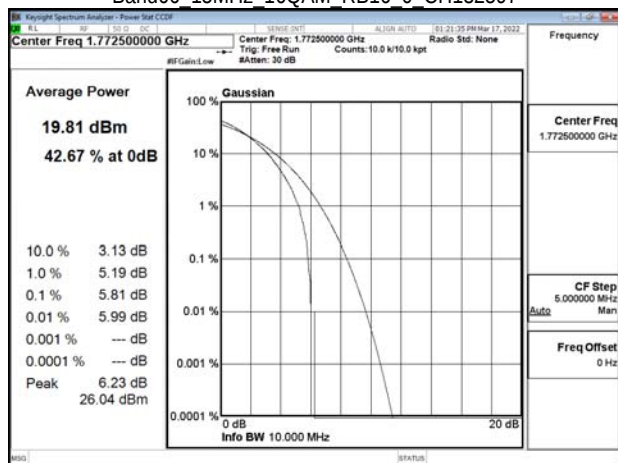


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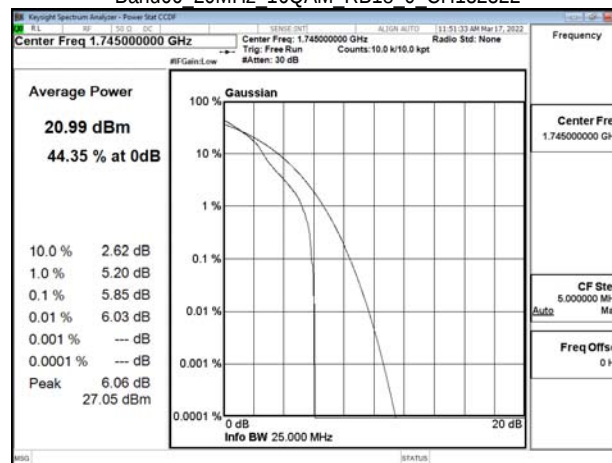
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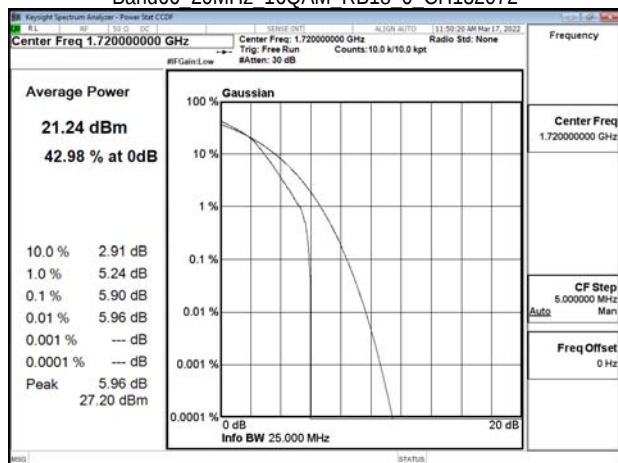
Band66 15MHz 16QAM RB16 0 CH132597



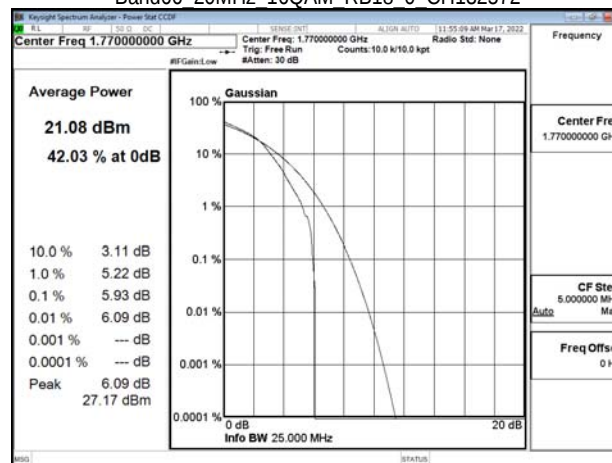
Band66 20MHz 16QAM RB18 0 CH132322



Band66 20MHz 16QAM RB18 0 CH132072



Band66 20MHz 16QAM RB18 0 CH132572



~ End of Report ~

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