

Reference Freq.:		LTE B5 Mid Channel		836.5000	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	836.500008	0.0096	+/- 2.5 ppm	
12	25	836.500003	0.0036		
10.2	25	836.499999	-0.0012		
10 (End Point)	25	836.500009	0.0108		
Freq. ERROR vs. Temp.					
12	-30	836.500005	0.0060	+/- 2.5 ppm	
12	-20	836.500008	0.0096		
12	-10	836.500006	0.0072		
12	0	836.499998	-0.0024		
12	10	836.500001	0.0012		
12	20	836.499998	-0.0024		
12	30	836.500004	0.0048		
12	40	836.500004	0.0048		
12	50	836.500005	0.0060		
Reference Freq.:		LTE B12 Mid Channel		707.5000	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	707.499999	-0.0014	+/- 2.5 ppm	
12	25	707.500006	0.0085		
10.2	25	707.499999	-0.0014		
10 (End Point)	25	707.500002	0.0028		
Freq. ERROR vs. Temp.					
12	-30	707.500000	0.0000	+/- 2.5 ppm	
12	-20	707.500009	0.0127		
12	-10	707.499999	-0.0014		
12	0	707.500007	0.0099		
12	10	707.499997	-0.0042		
12	20	707.499996	-0.0057		
12	30	707.500004	0.0057		
12	40	707.500001	0.0014		
12	50	707.499997	-0.0042		

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Reference Freq.:		LTE B13 Mid Channel		782.0000	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	781.999995	-0.0064	+/- 2.5 ppm	
12	25	782.000003	0.0038		
10.2	25	782.000005	0.0064		
10 (End Point)	25	782.000006	0.0077		
Freq. ERROR vs. Temp.					
12	-30	782.000004	0.0051	+/- 2.5 ppm	
12	-20	782.000004	0.0051		
12	-10	781.999998	-0.0026		
12	0	782.000008	0.0102		
12	10	782.000005	0.0064		
12	20	781.999997	-0.0038		
12	30	782.000008	0.0102		
12	40	781.999998	-0.0026		
12	50	782.000006	0.0077		
Reference Freq.:		LTE B17 Mid Channel		710.0000	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	710.000006	0.0085	+/- 2.5 ppm	
12	25	709.999999	-0.0014		
10.2	25	710.000001	0.0014		
10 (End Point)	25	710.000003	0.0042		
Freq. ERROR vs. Temp.					
12	-30	710.000009	0.0127	+/- 2.5 ppm	
12	-20	710.000003	0.0042		
12	-10	710.000005	0.0070		
12	0	710.000006	0.0085		
12	10	710.000003	0.0042		
12	20	710.000000	0.0000		
12	30	710.000003	0.0042		
12	40	709.999996	-0.0056		
12	50	710.000004	0.0056		

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Reference Freq.:		LTE B66 Mid Channel		1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
13.8	25	1745.000007	0.0040	+/- 2.5 ppm	
12	25	1745.000009	0.0052		
10.2	25	1745.000003	0.0017		
10 (End Point)	25	1744.999998	-0.0011		
Freq. ERROR vs. Temp.					
12	-30	1745.000004	0.0023	+/- 2.5 ppm	
12	-20	1745.000005	0.0029		
12	-10	1745.000009	0.0052		
12	0	1745.000007	0.0040		
12	10	1744.999999	-0.0006		
12	20	1744.999995	-0.0029		
12	30	1744.999997	-0.0017		
12	40	1745.000008	0.0046		
12	50	1745.000001	0.0006		

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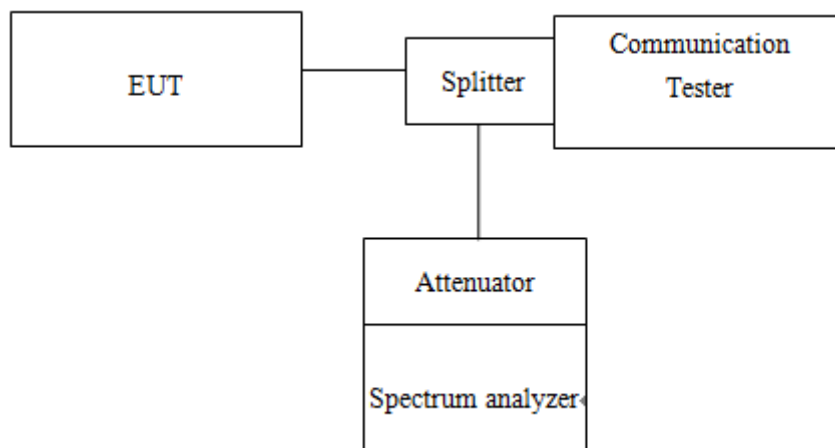
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

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

12.2 Test SET-UP



12.3 Measurement Procedure

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

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12.4 Measurement Result

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		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

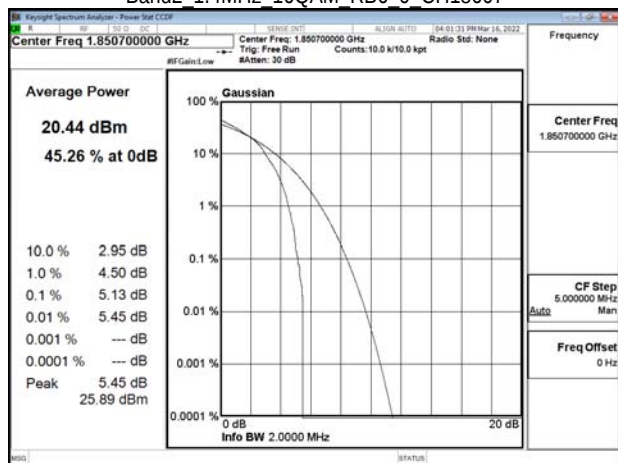
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	132047	5.90	13	1720.0	132072	5.90	13
1745.0	132322	5.91	13	1745.0	132322	5.85	13
1772.5	132597	5.81	13	1770.0	132572	5.93	13

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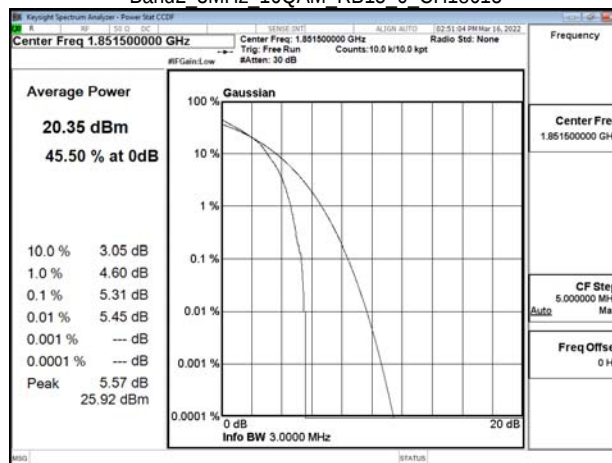
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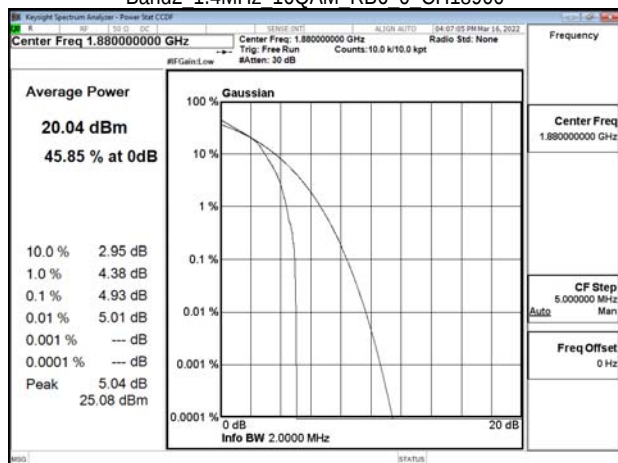
Band2 1.4MHz 16QAM RB6 0 CH18607



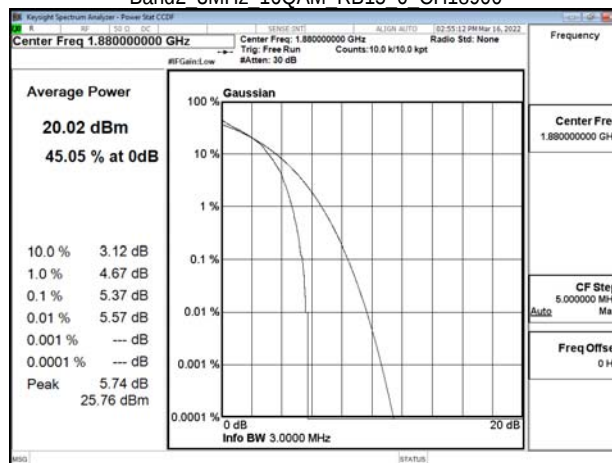
Band2 3MHz 16QAM RB15 0 CH18615



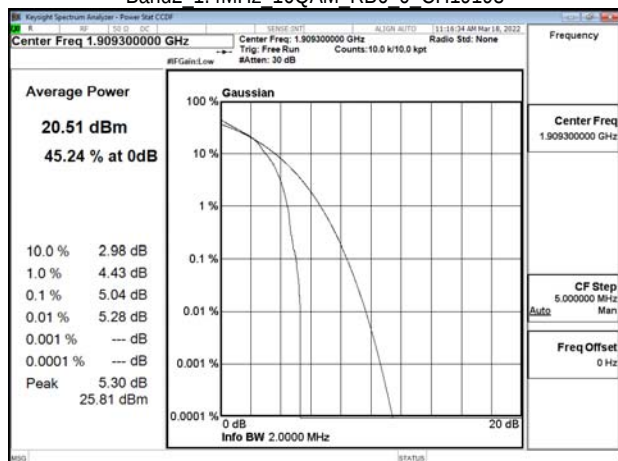
Band2 1.4MHz 16QAM RB6 0 CH18900



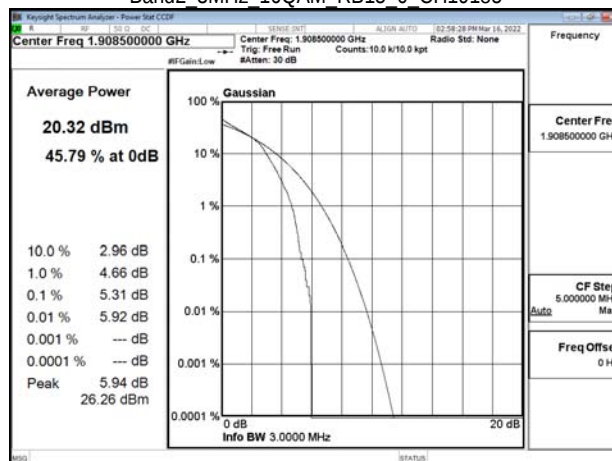
Band2 3MHz 16QAM RB15 0 CH18900



Band2 1.4MHz 16QAM RB6 0 CH19193



Band2 3MHz 16QAM RB15 0 CH19185

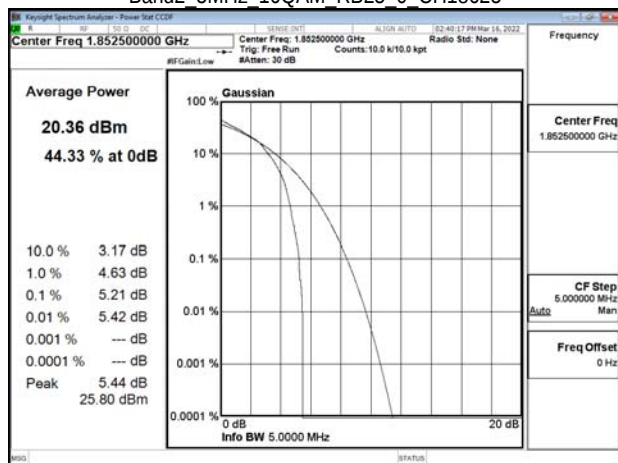


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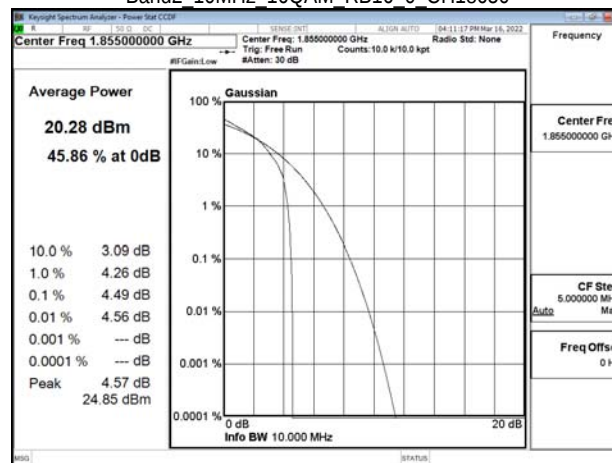
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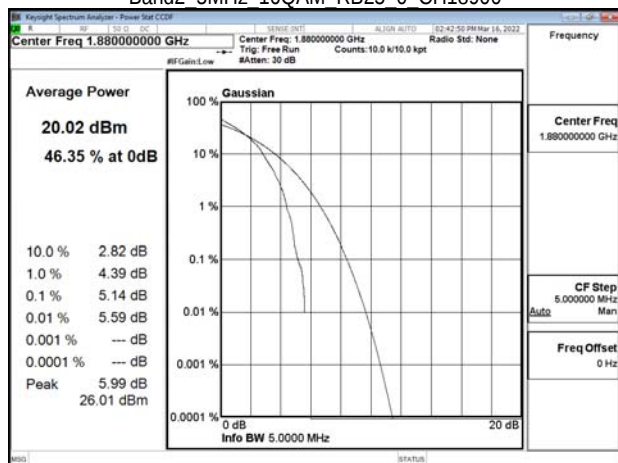
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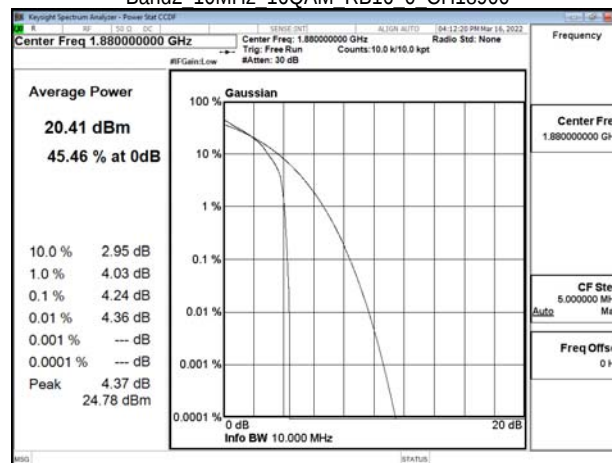
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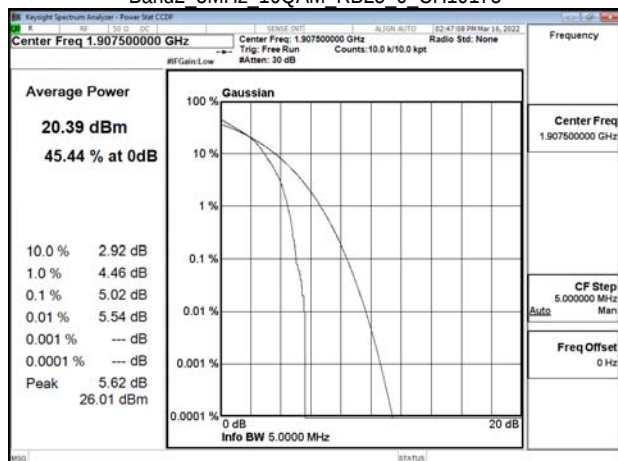
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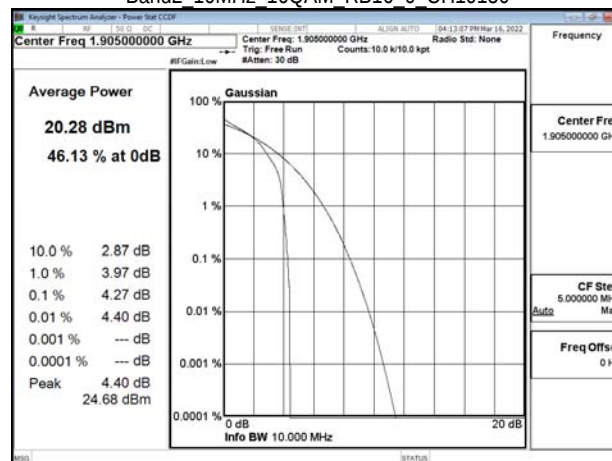
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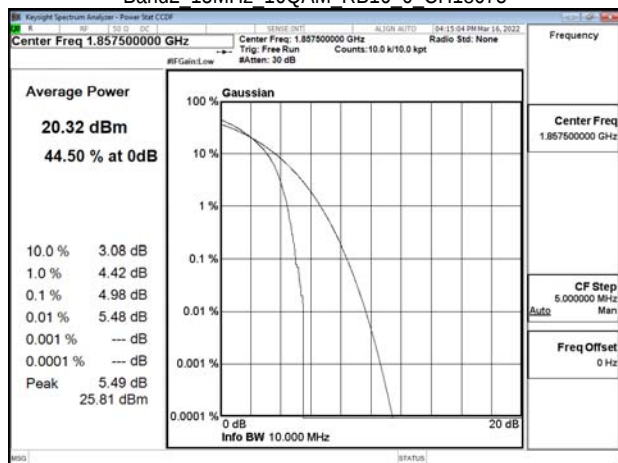


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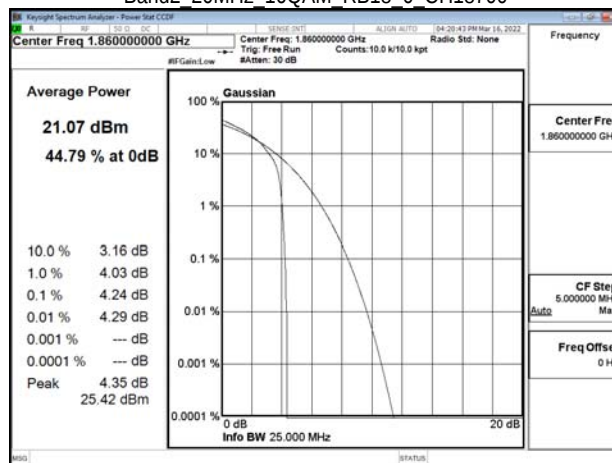
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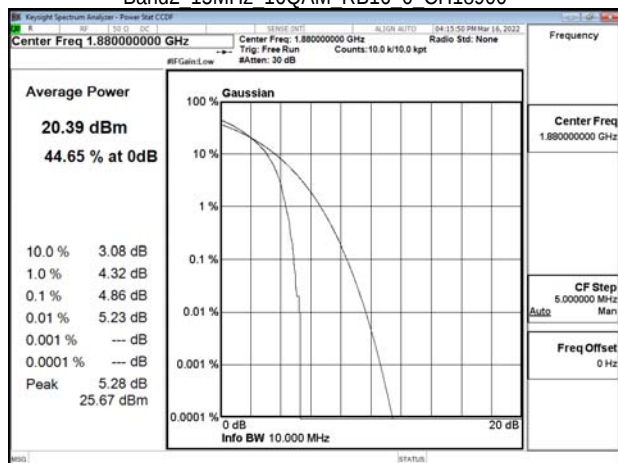
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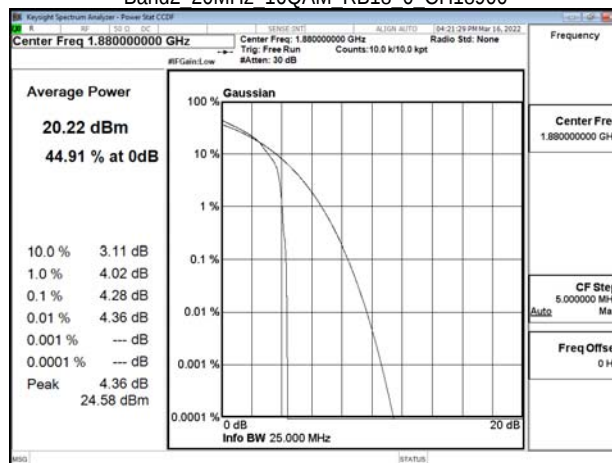
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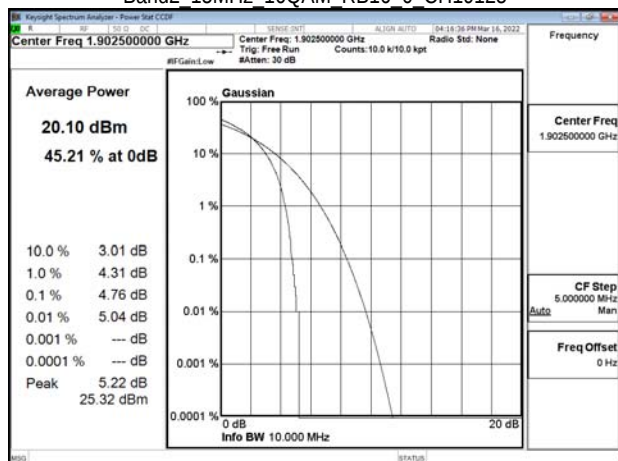
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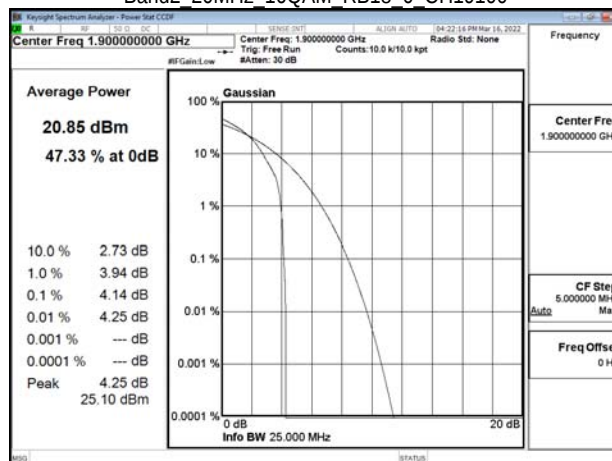
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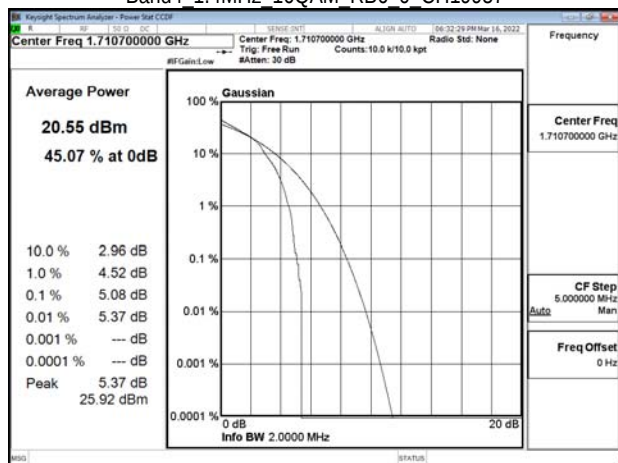


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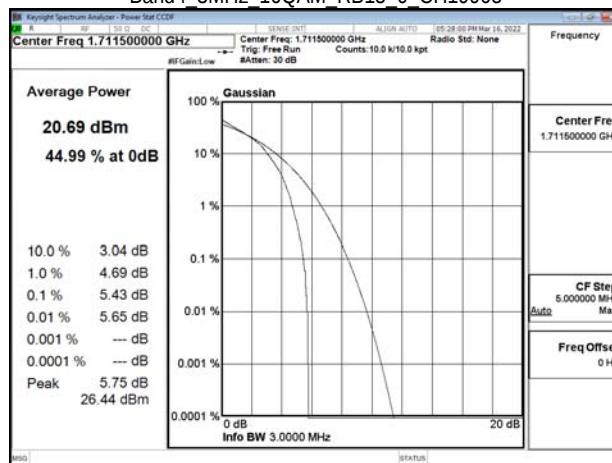
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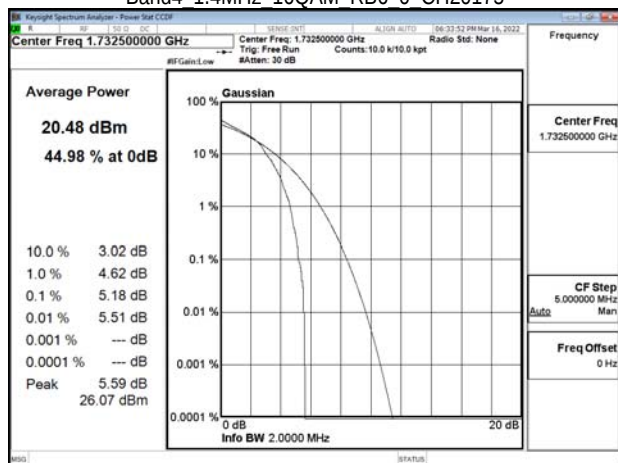
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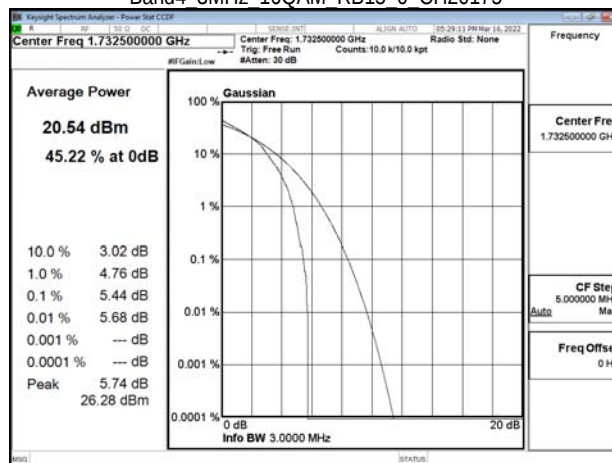
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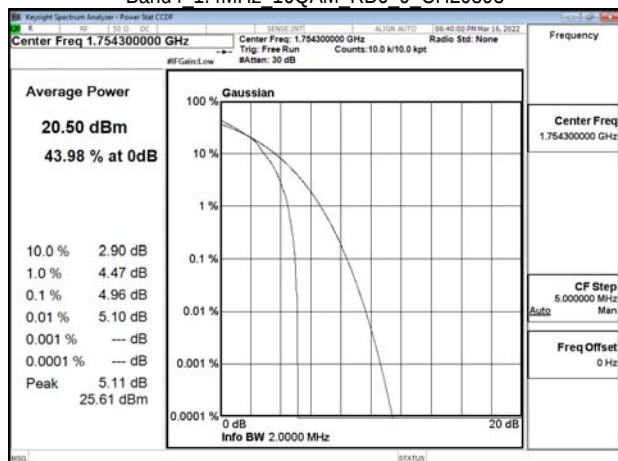
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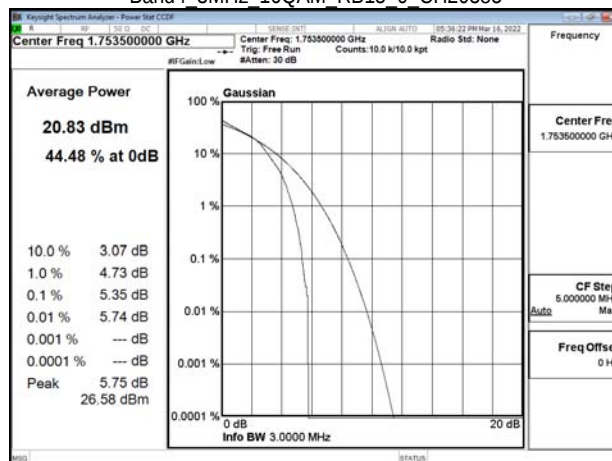
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Band4 3MHz 16QAM RB15 0 CH20385

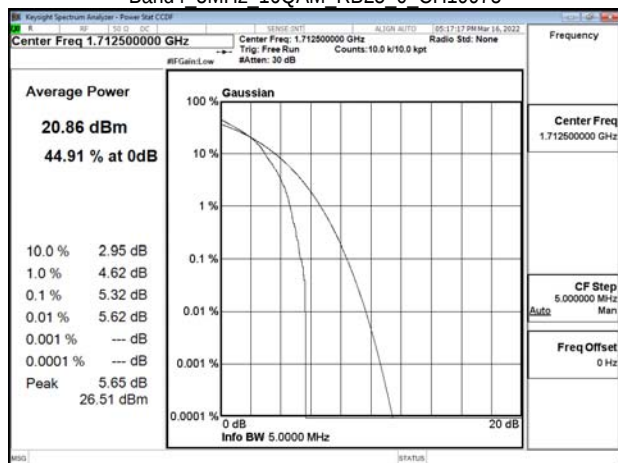


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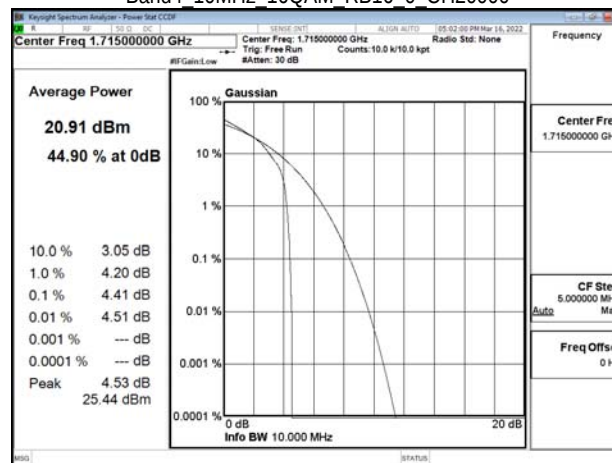
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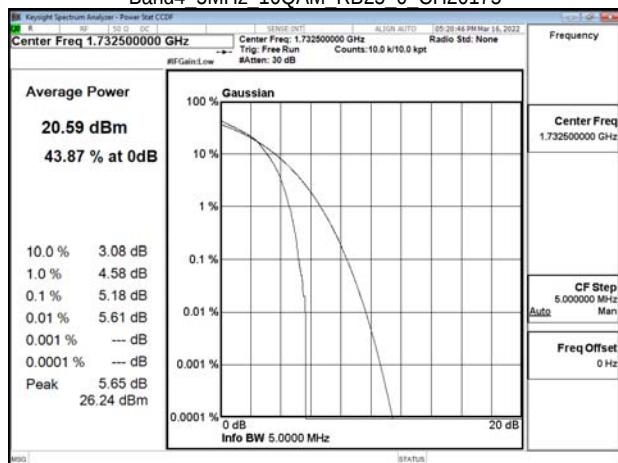
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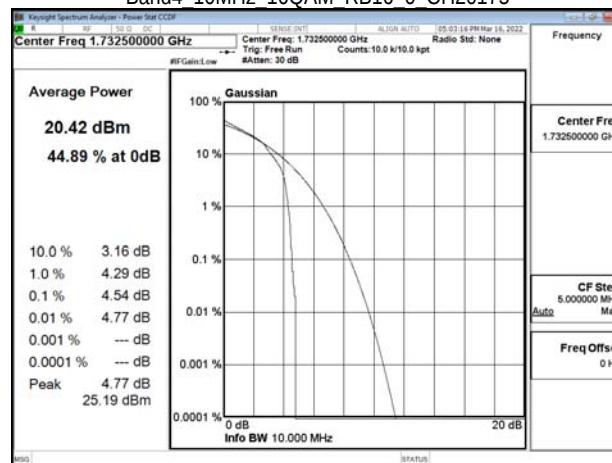
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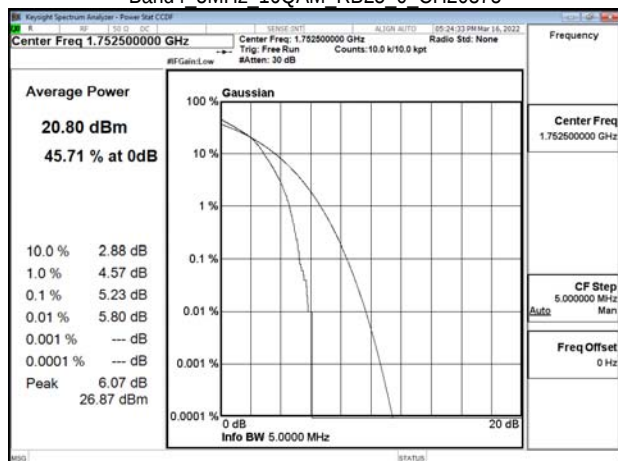
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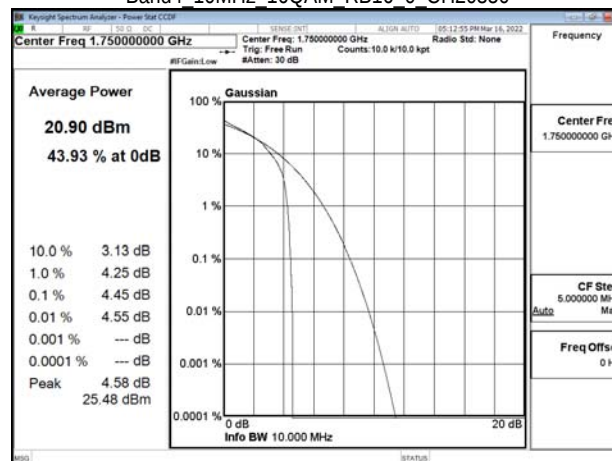
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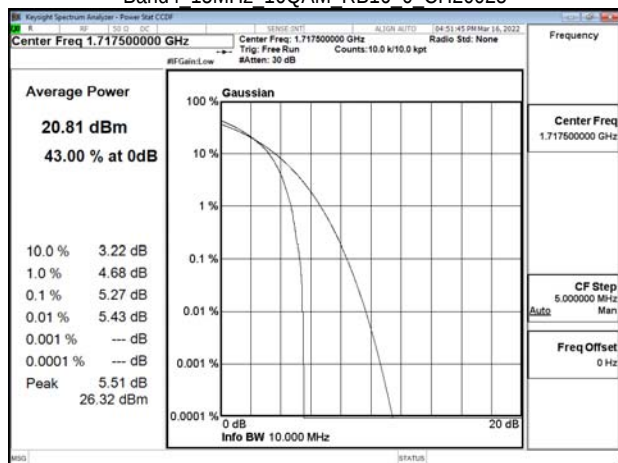


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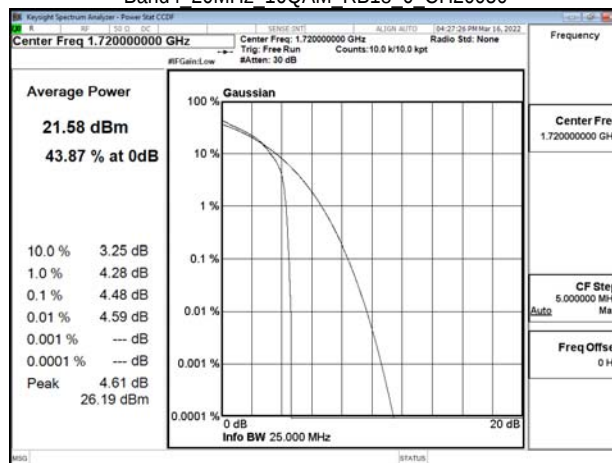
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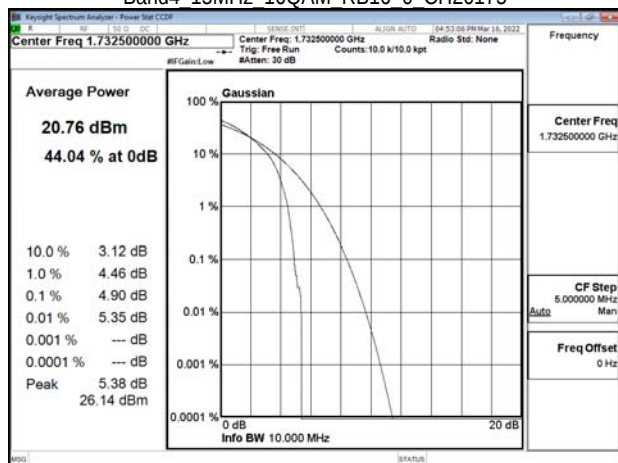
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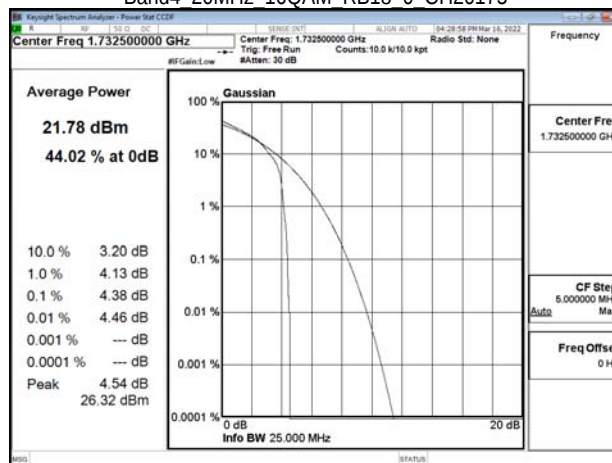
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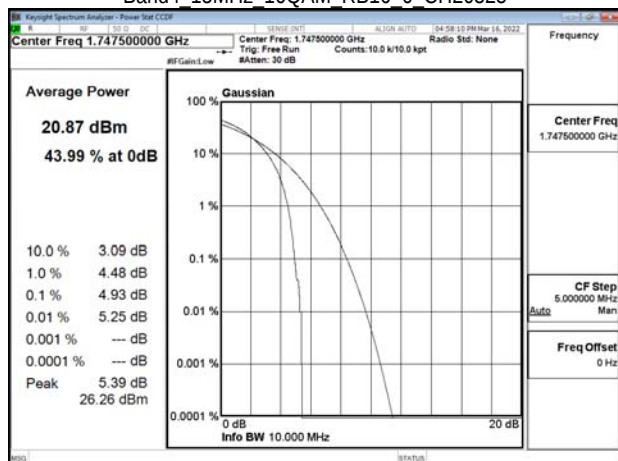
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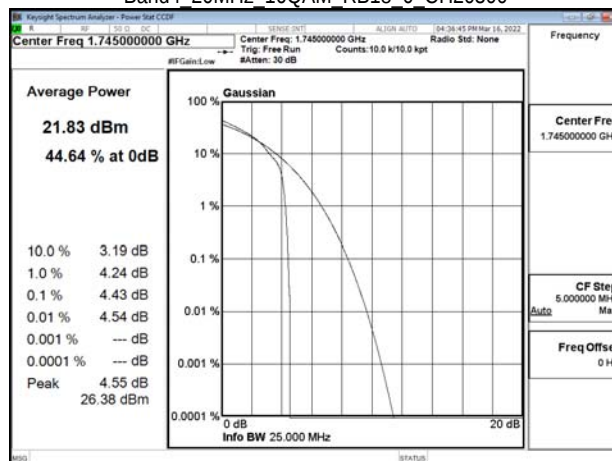
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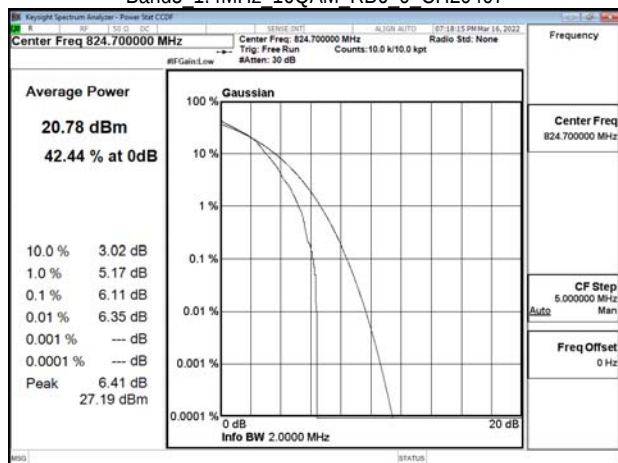


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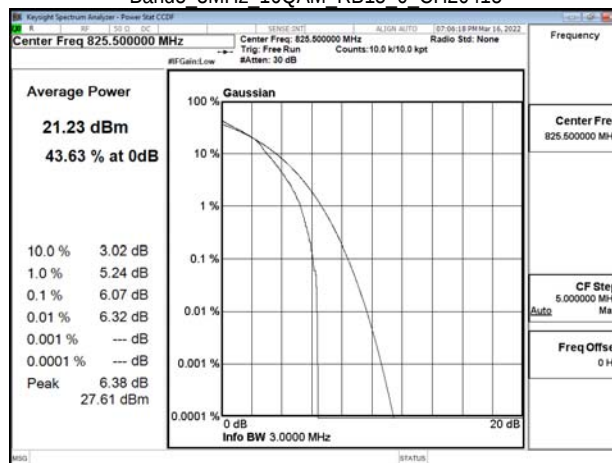
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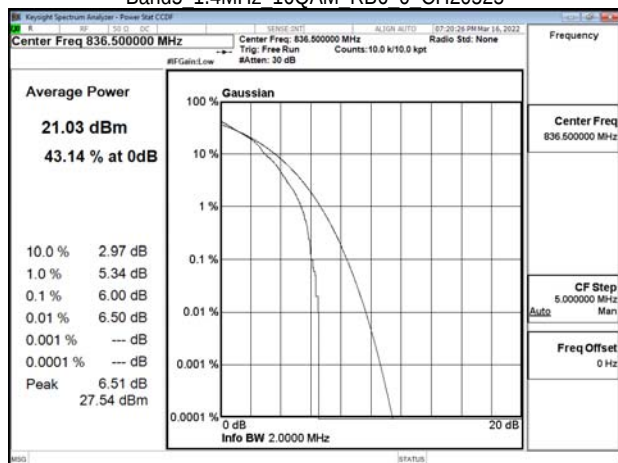
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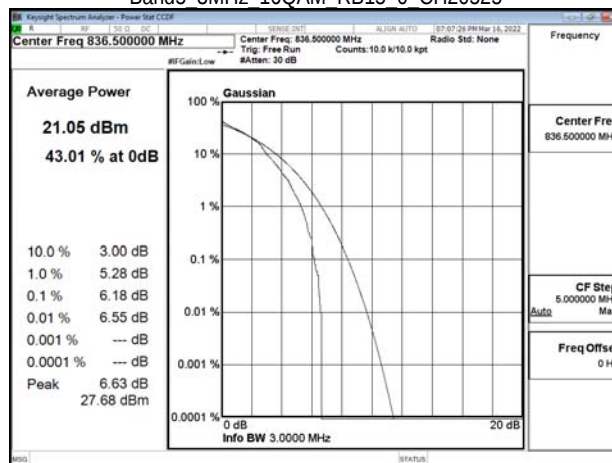
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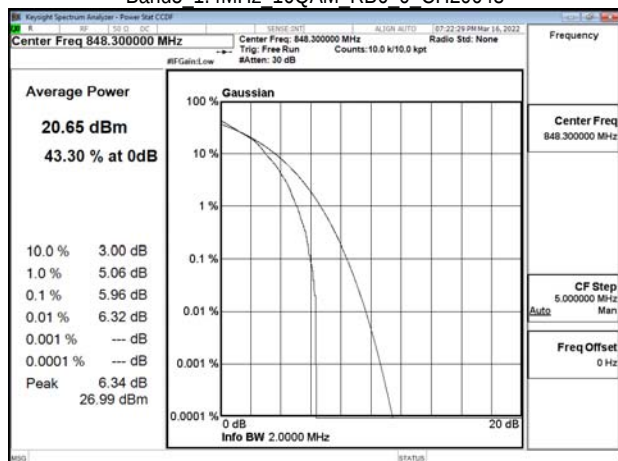
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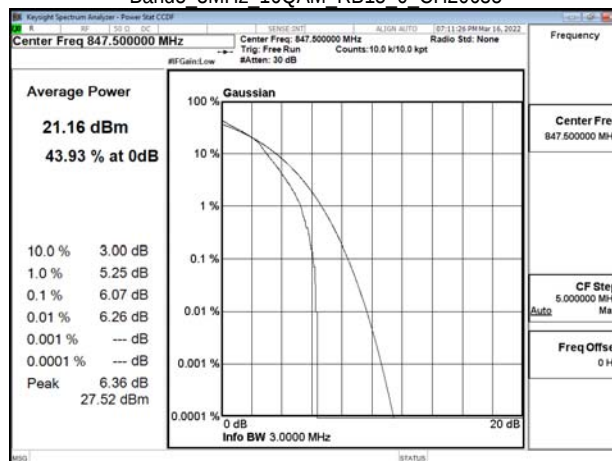
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Band5 1.4MHz 16QAM RB6 0 CH20643



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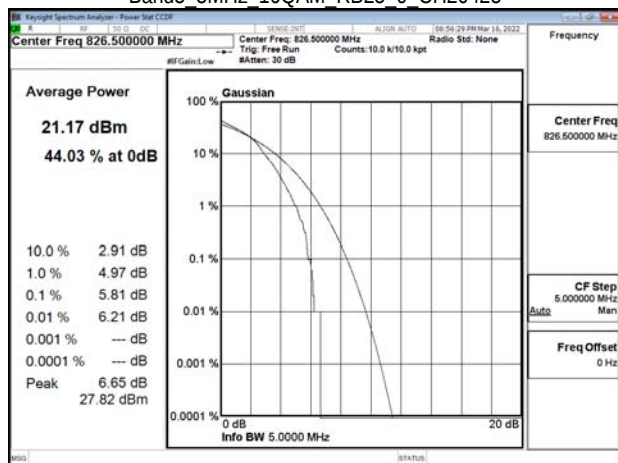


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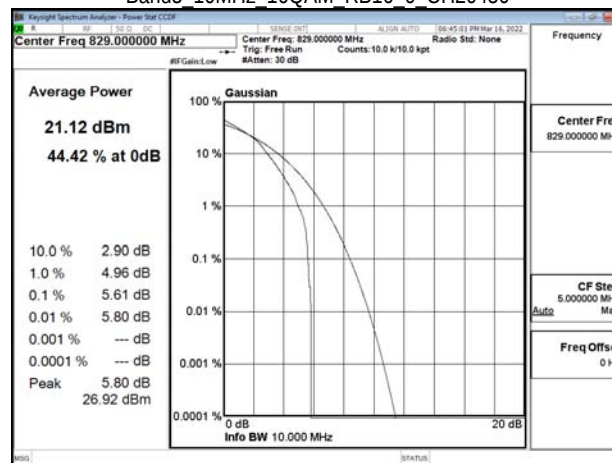
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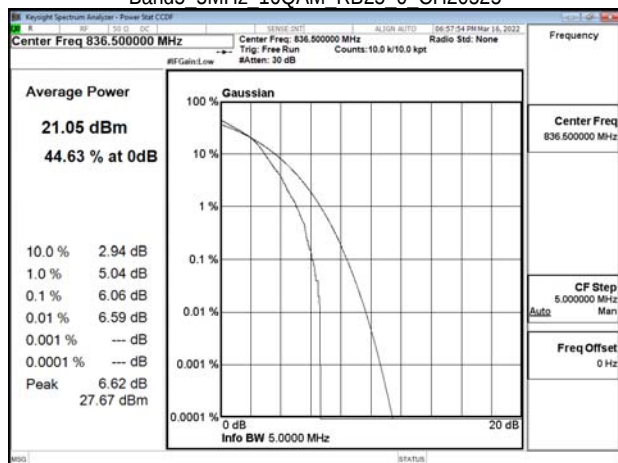
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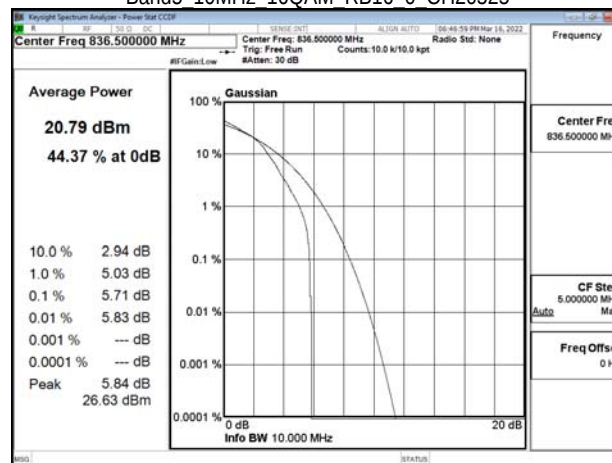
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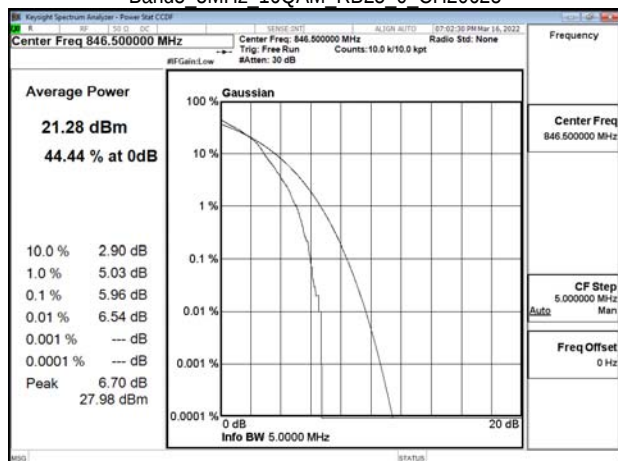
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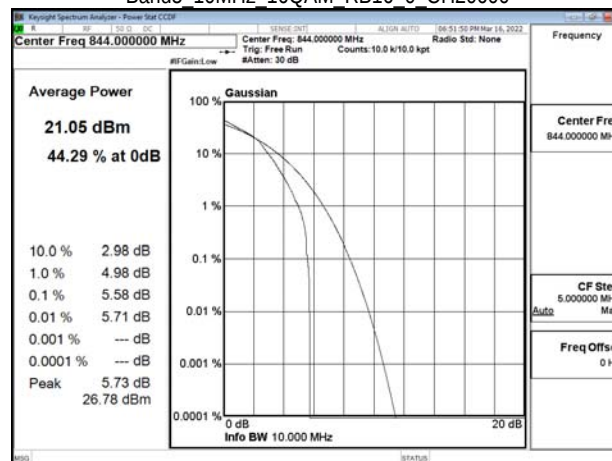
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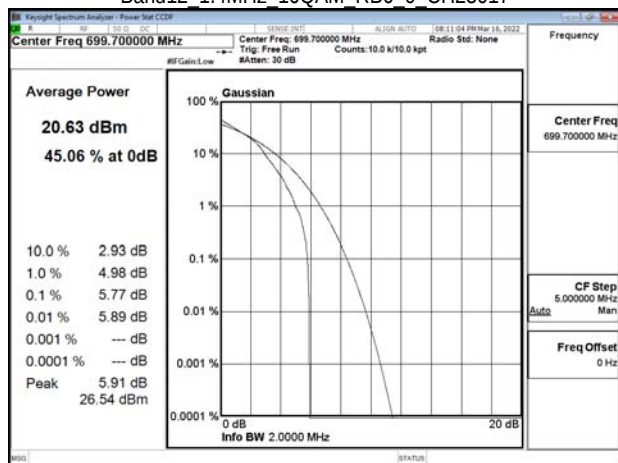


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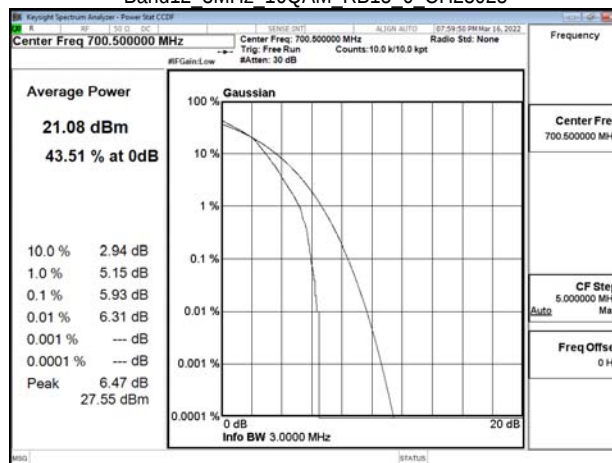
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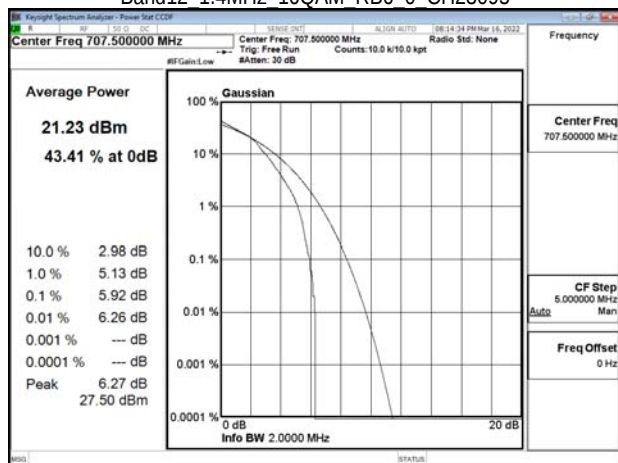
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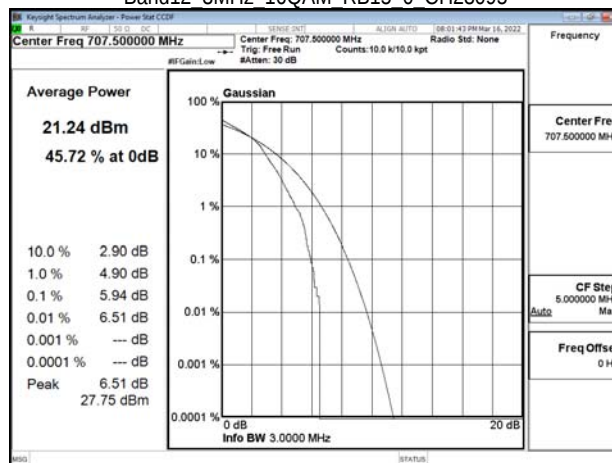
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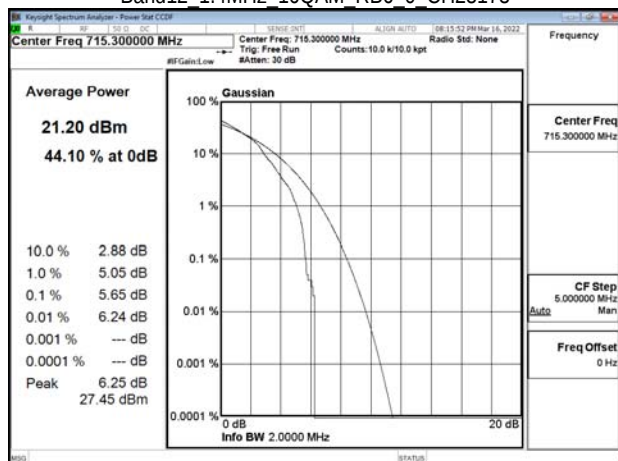
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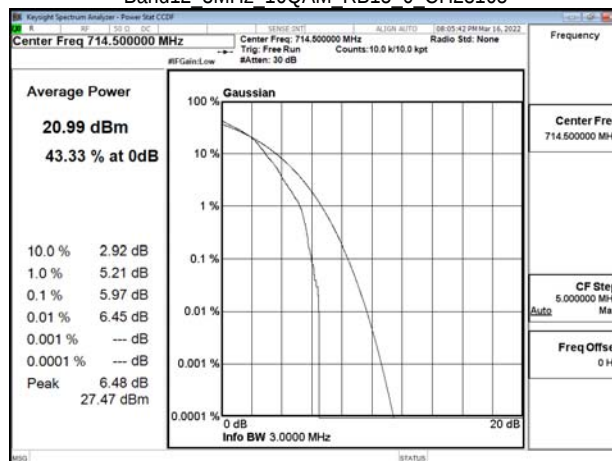
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Band12 1.4MHz 16QAM RB6 0 CH23173



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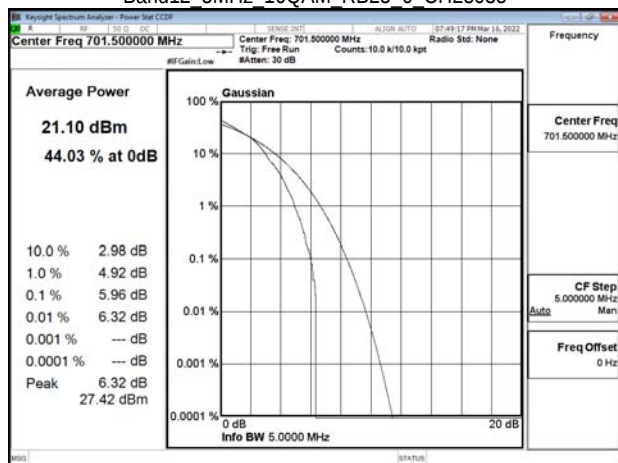


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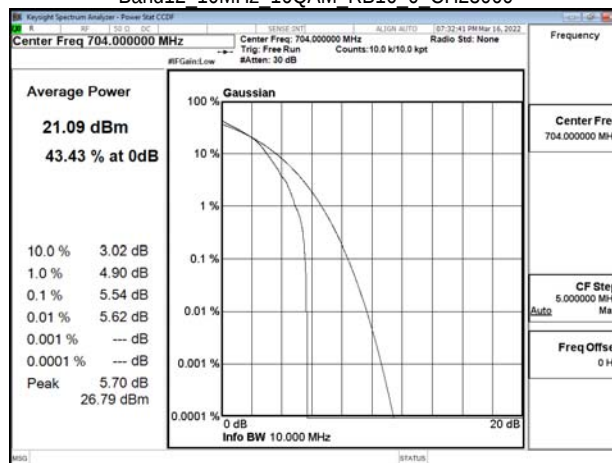
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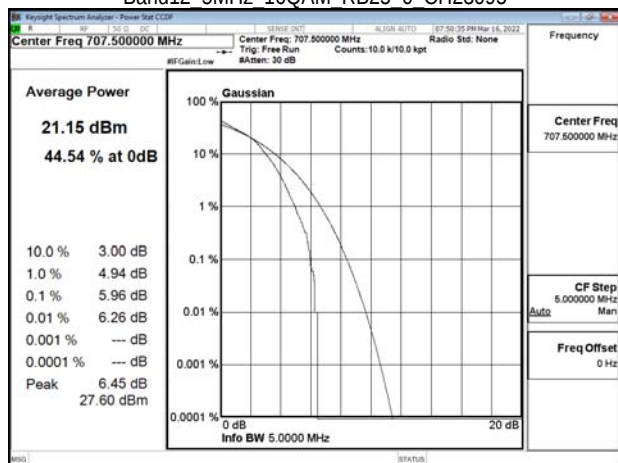
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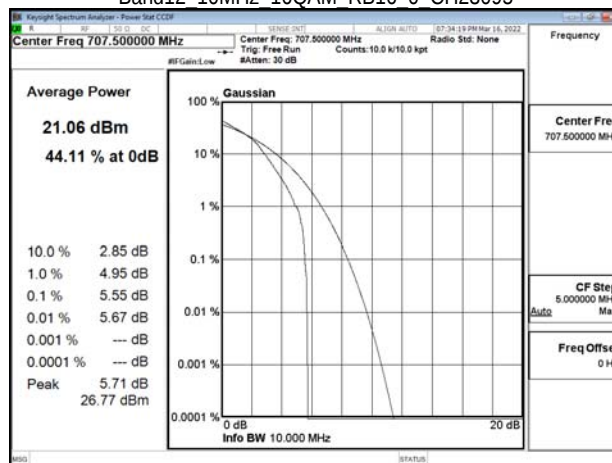
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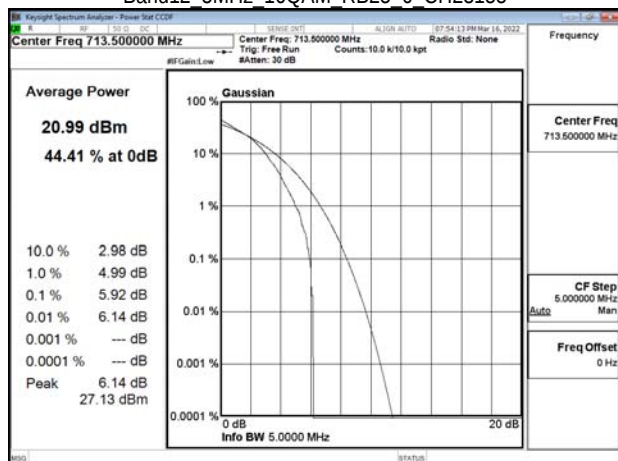
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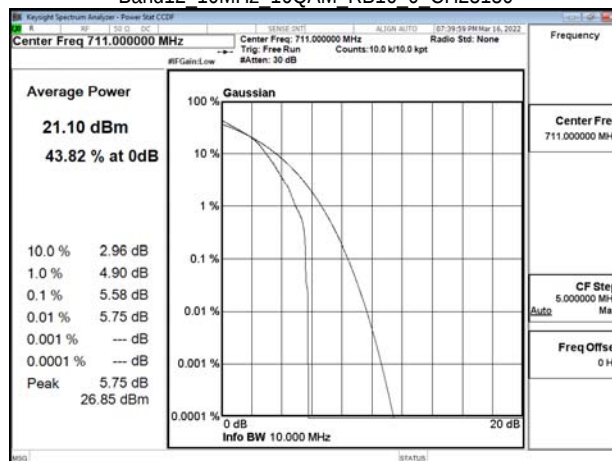
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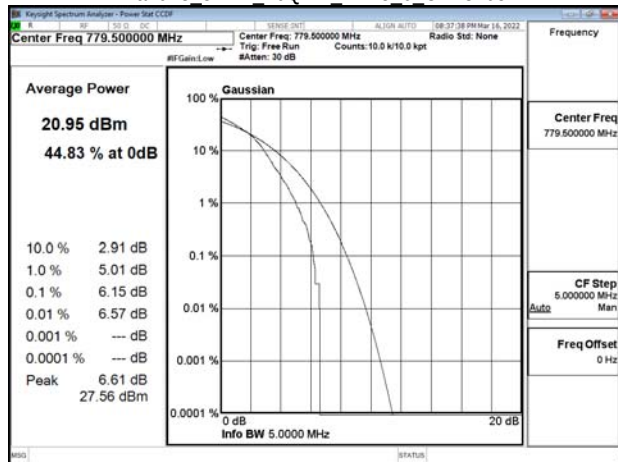


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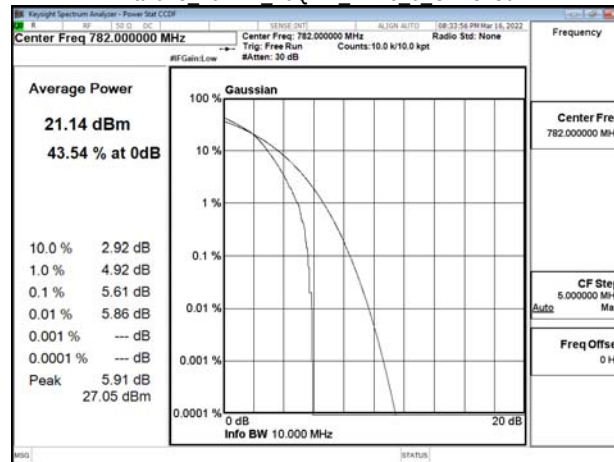
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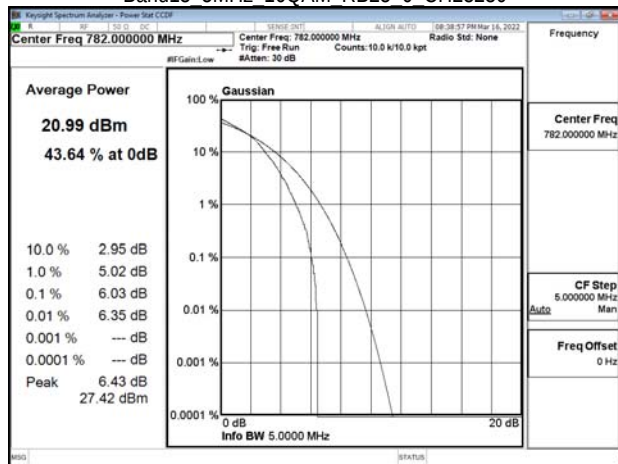
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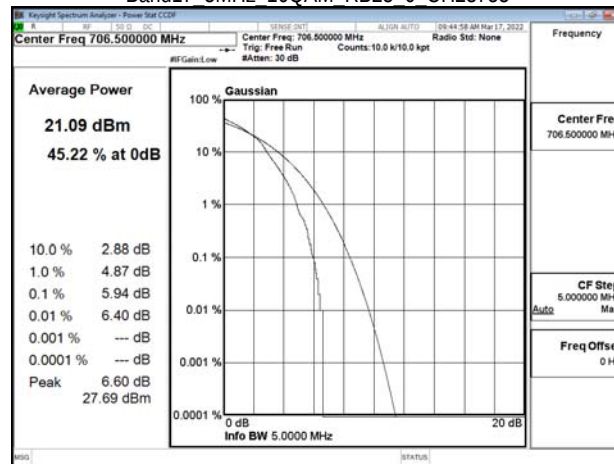
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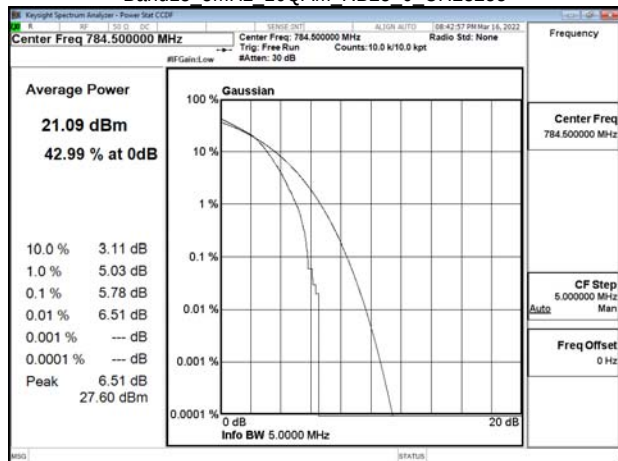
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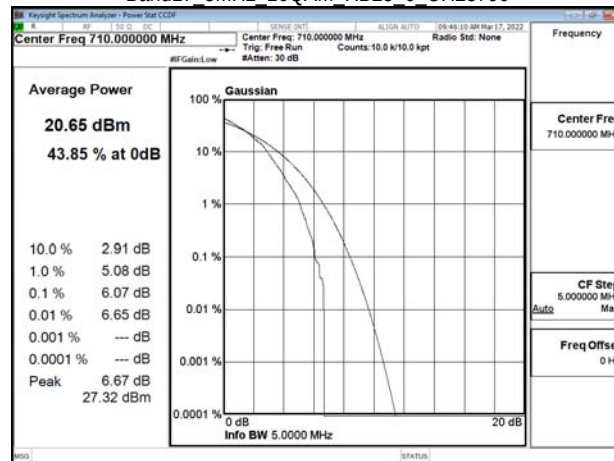
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Band13 5MHz 16QAM RB25 0 CH23255



Band17 5MHz 16QAM RB25 0 CH23790

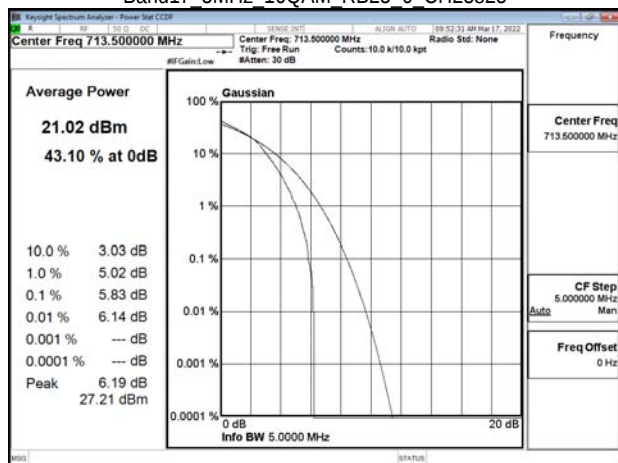


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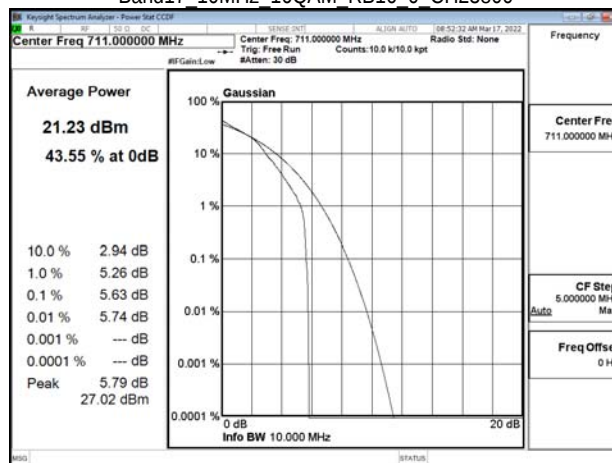
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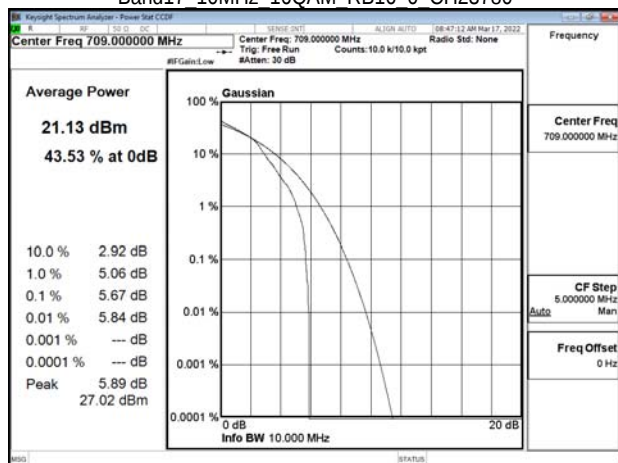
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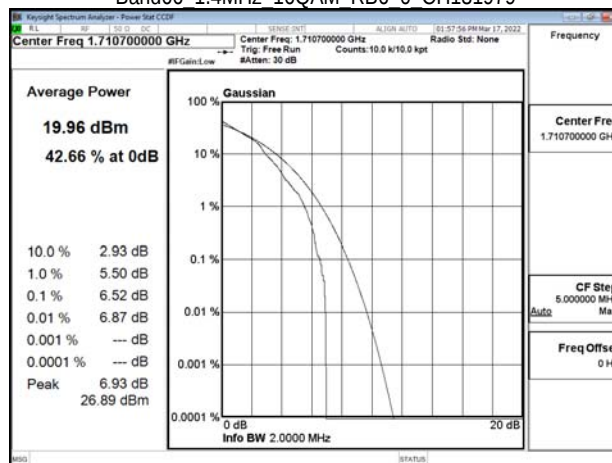
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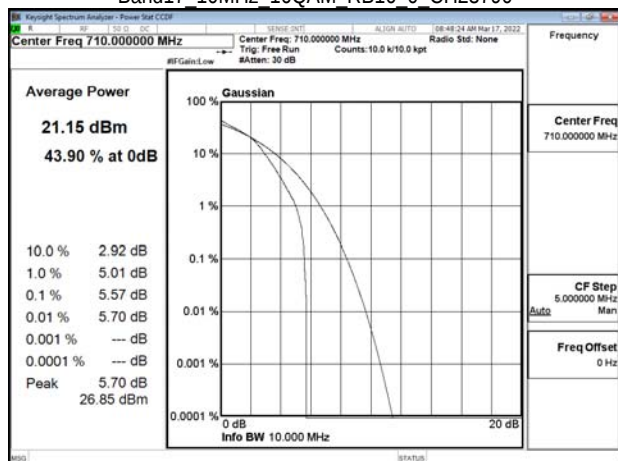
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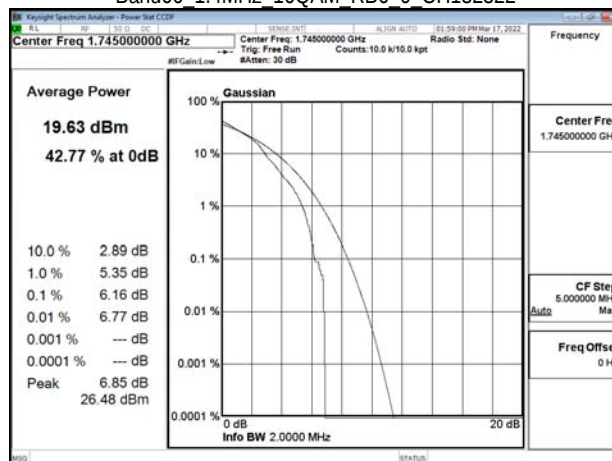
Band66 1.4MHz 16QAM RB6 0 CH131979



Band17 10MHz 16QAM RB16 0 CH23790



Band66 1.4MHz 16QAM RB6 0 CH132322

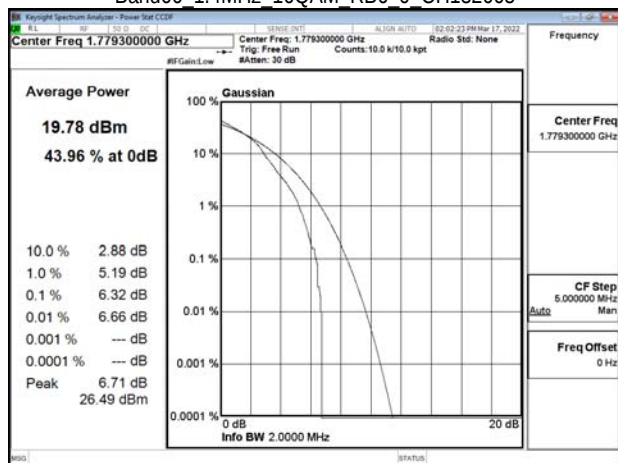


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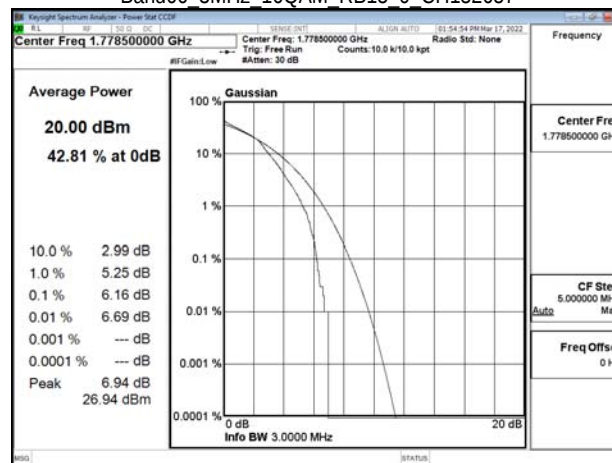
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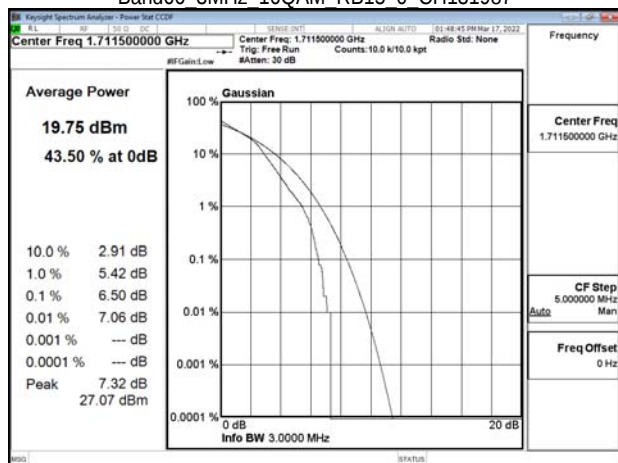
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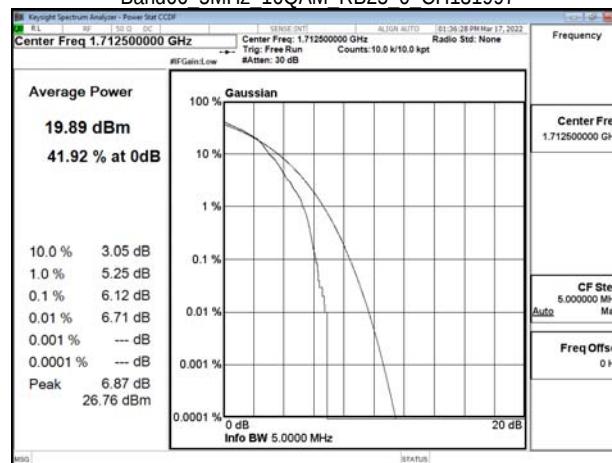
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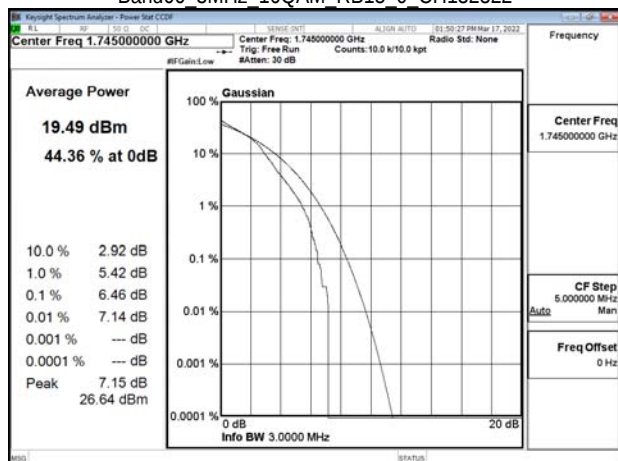
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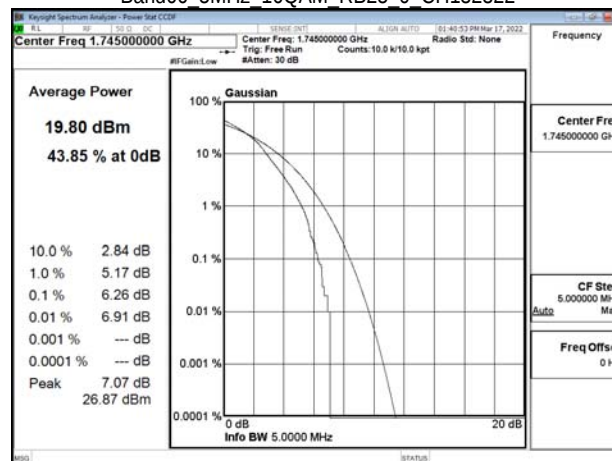
Band66 5MHz 16QAM RB25 0 CH131997



Band66 3MHz 16QAM RB15 0 CH132322



Band66 5MHz 16QAM RB25 0 CH132322

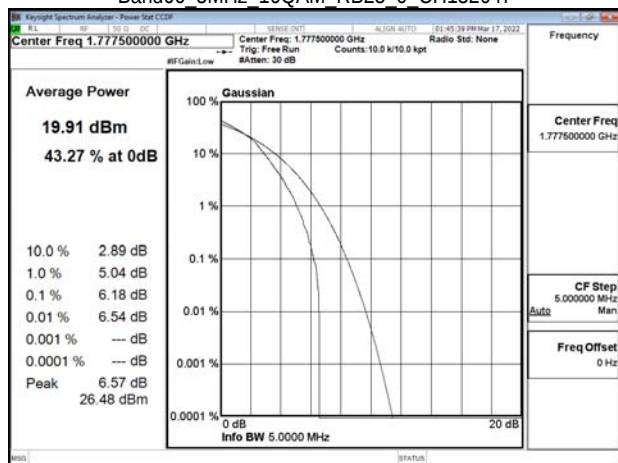


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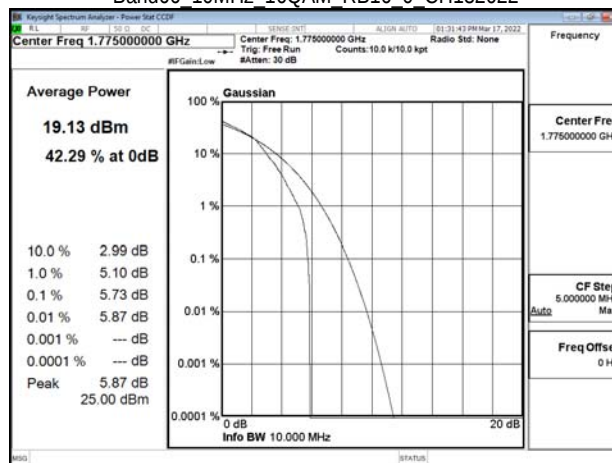
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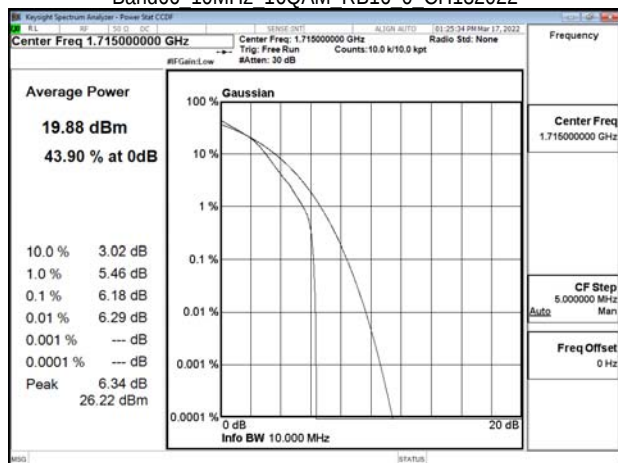
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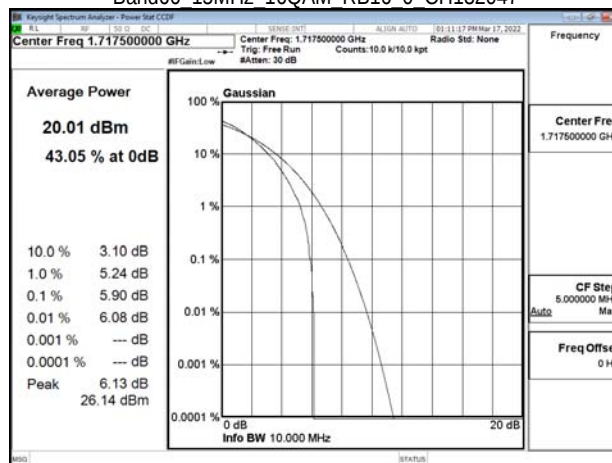
Band66 10MHz 16QAM RB16 0 CH132622



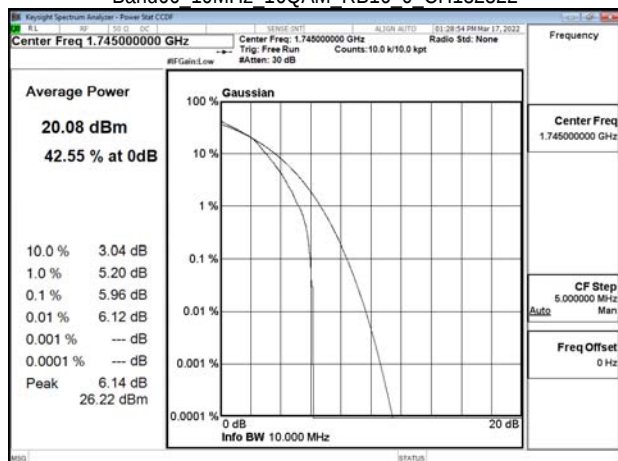
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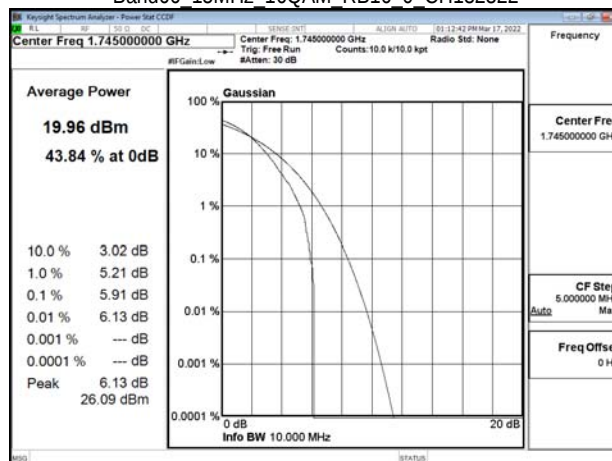
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Band66 10MHz 16QAM RB16 0 CH132322



Band66 15MHz 16QAM RB16 0 CH132322

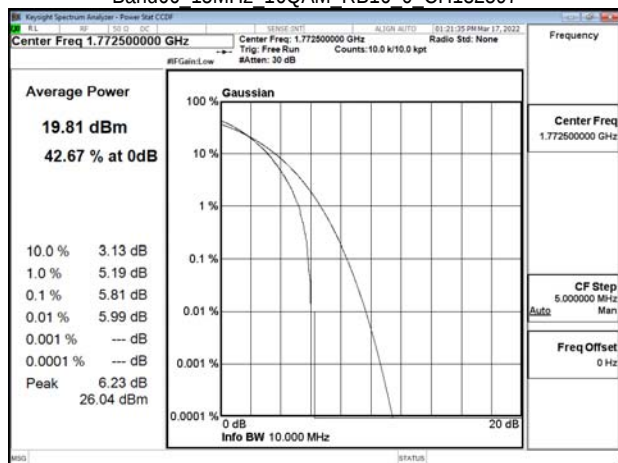


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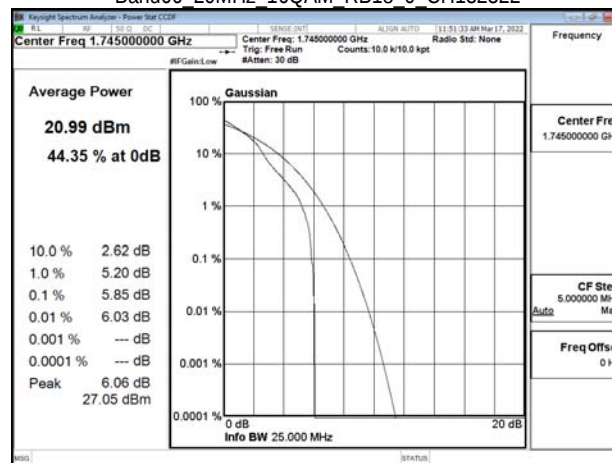
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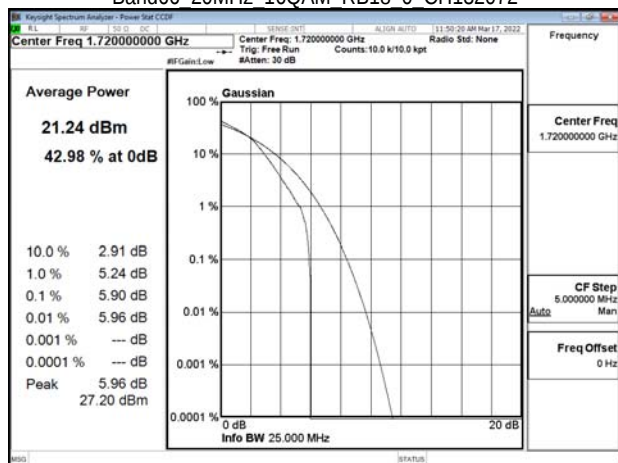
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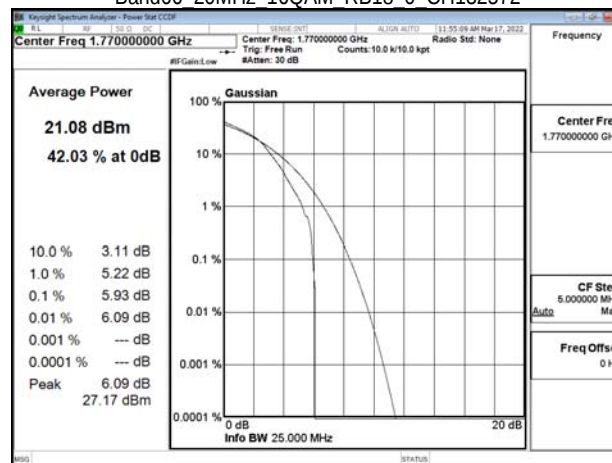
Band66 20MHz 16QAM RB18 0 CH132322



Band66 20MHz 16QAM RB18 0 CH132072



Band66 20MHz 16QAM RB18 0 CH132572



~ End of Report ~

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