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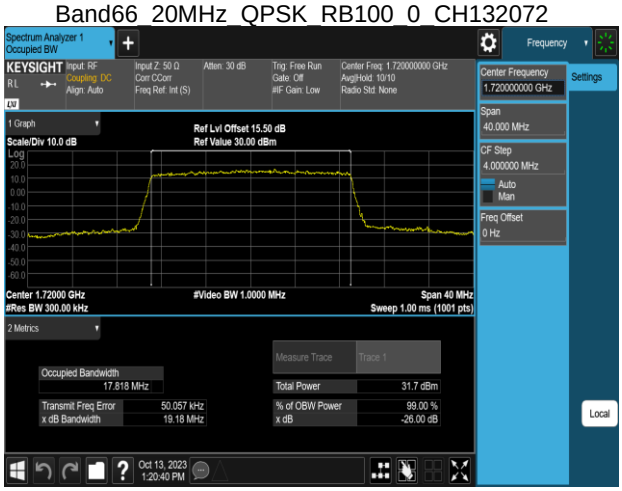

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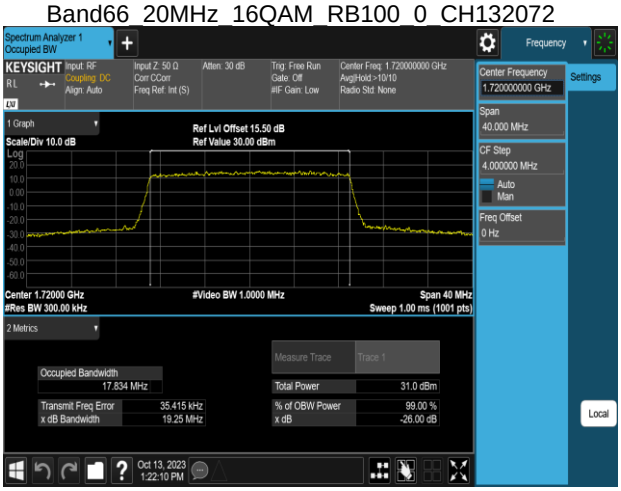

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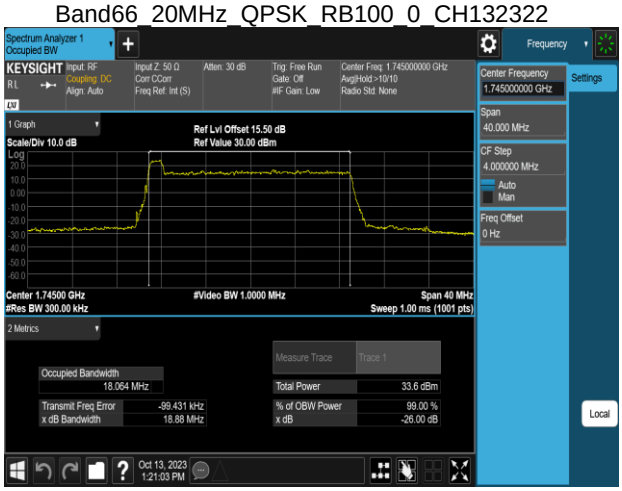

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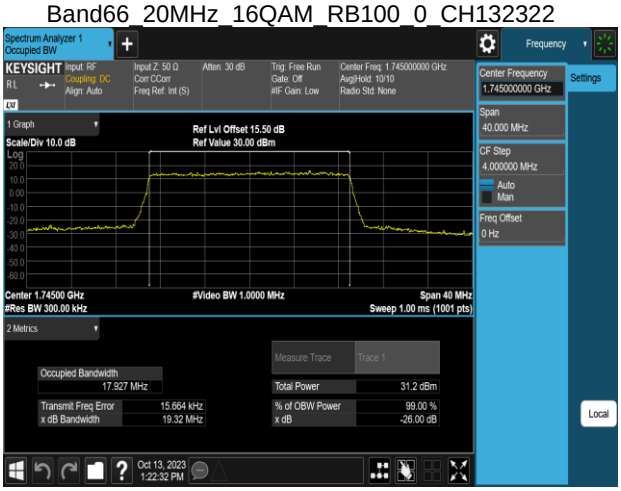

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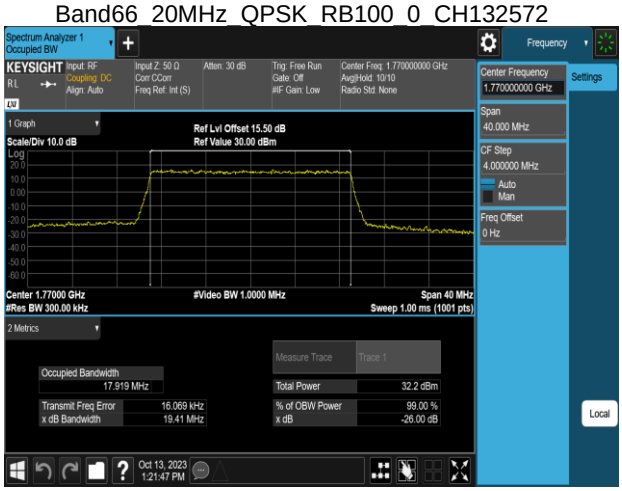

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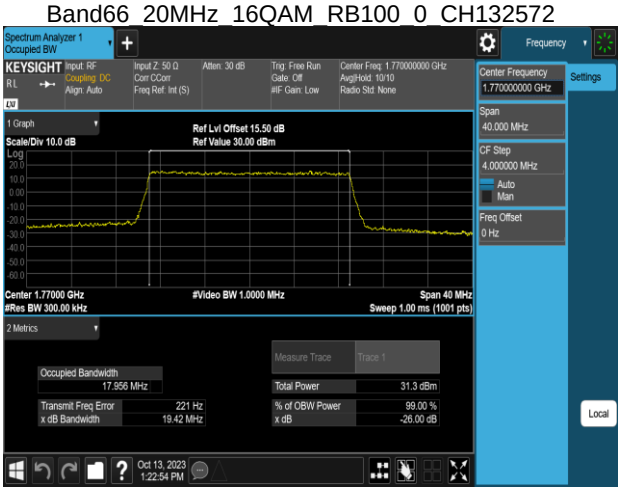

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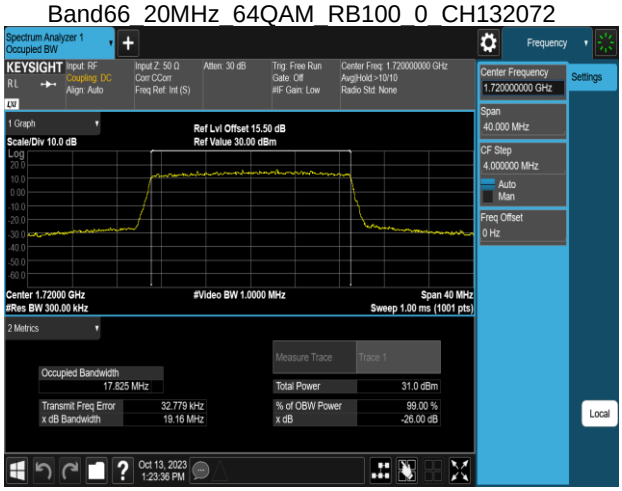
Band66_20MHz_64QAM_RB100_0_CH132072



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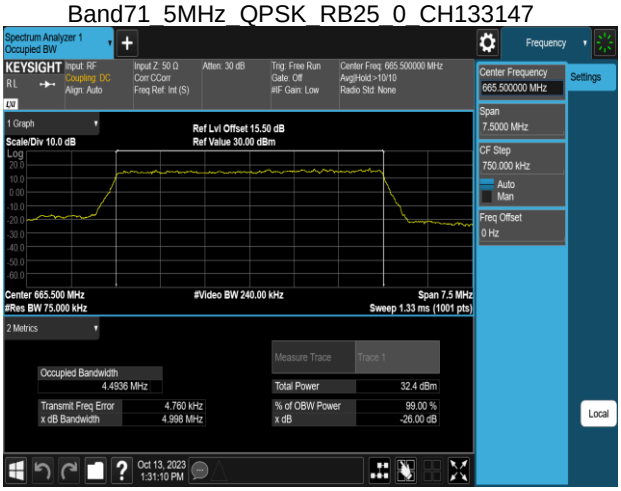

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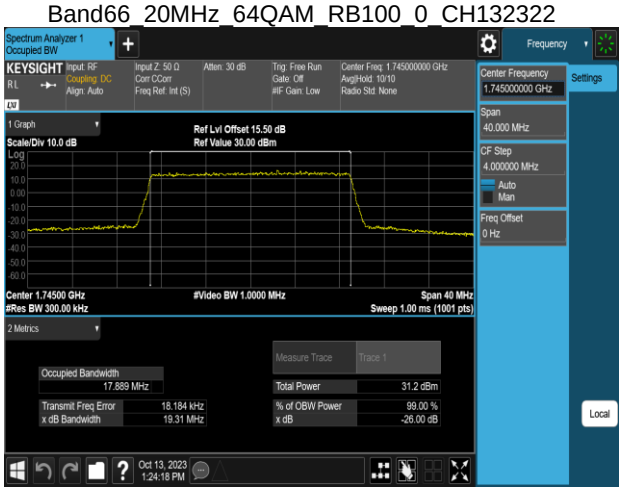

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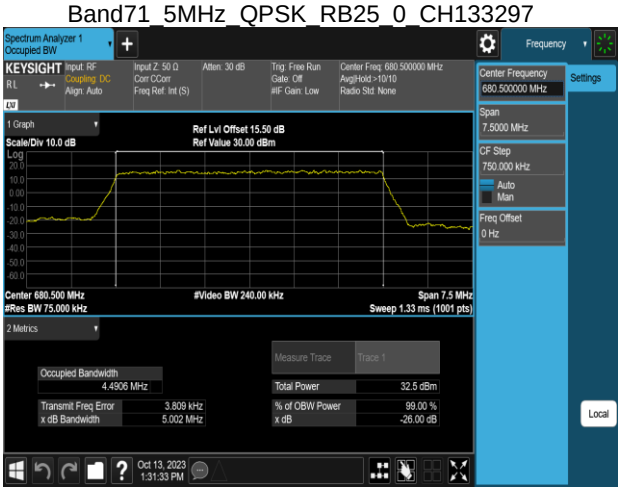

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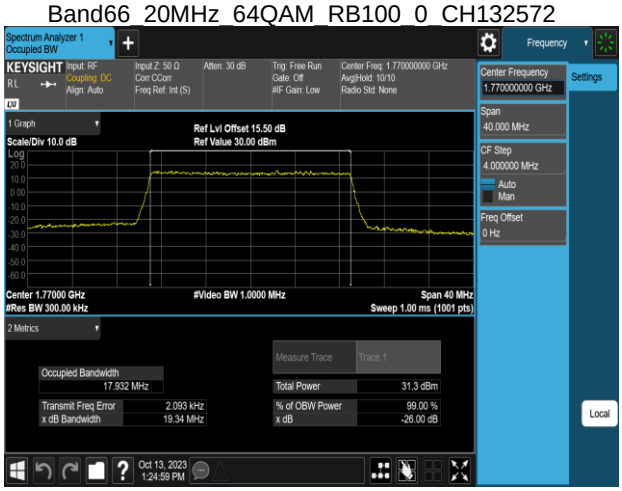

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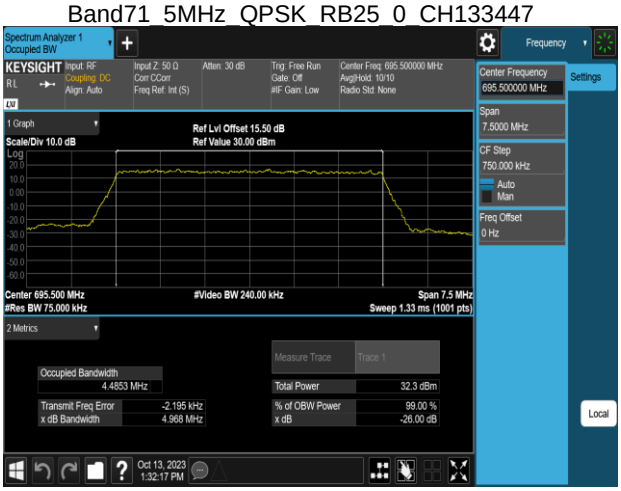

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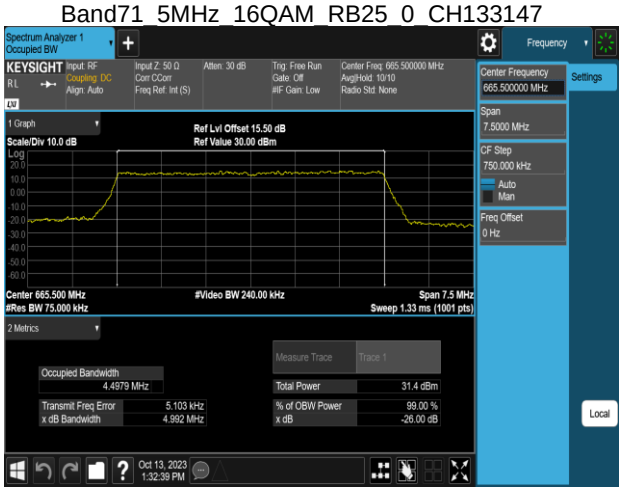
Band71_5MHz_16QAM_RB25_0_CH133147



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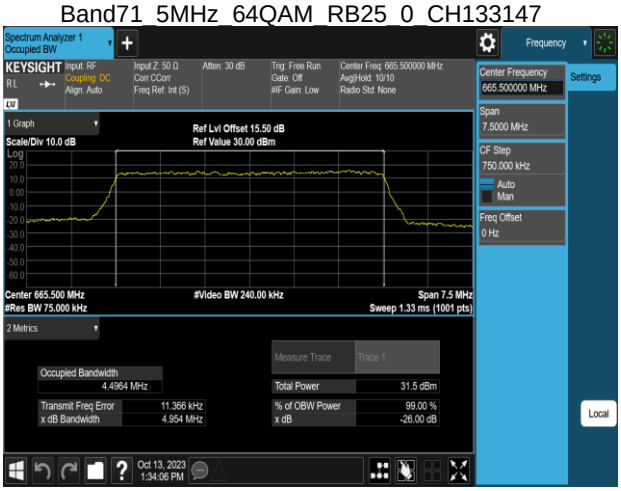

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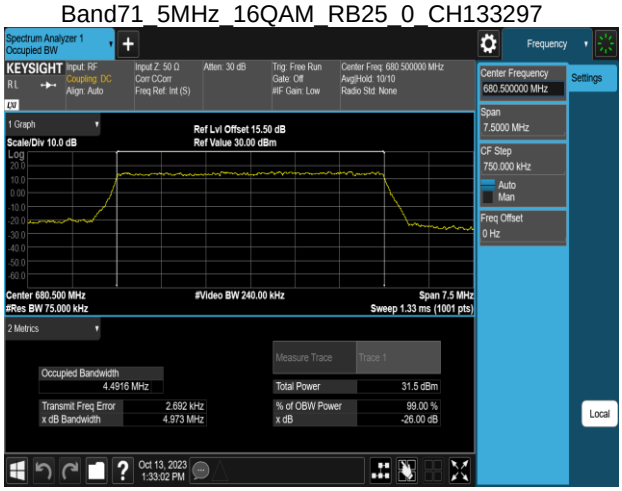

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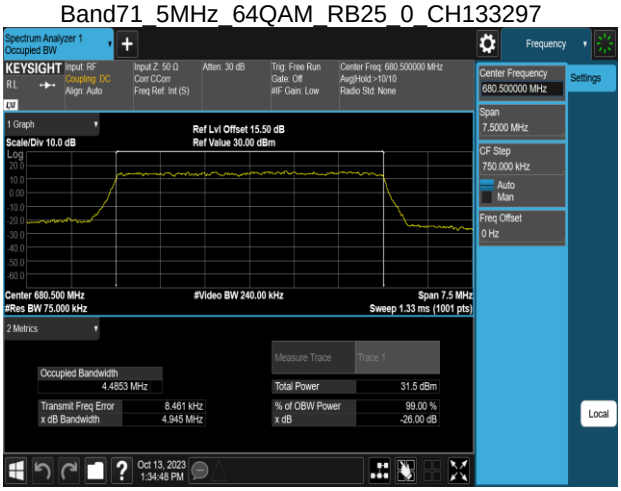

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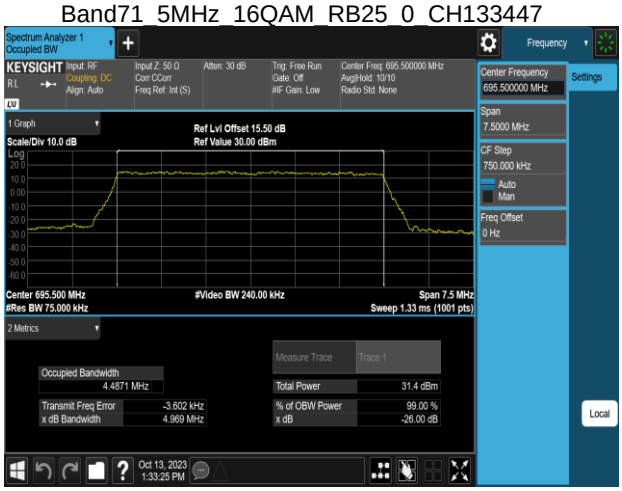

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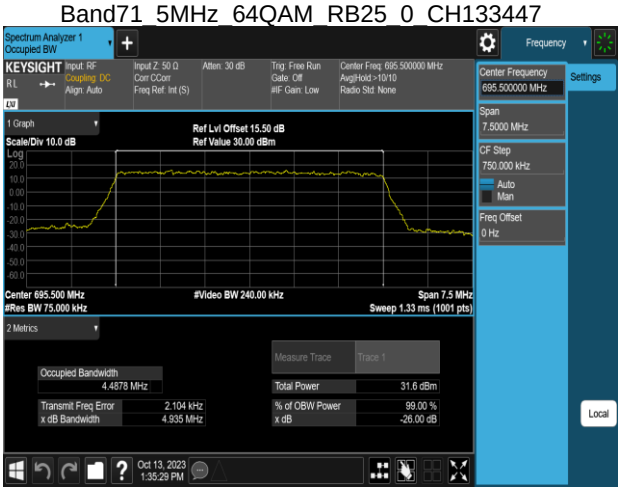

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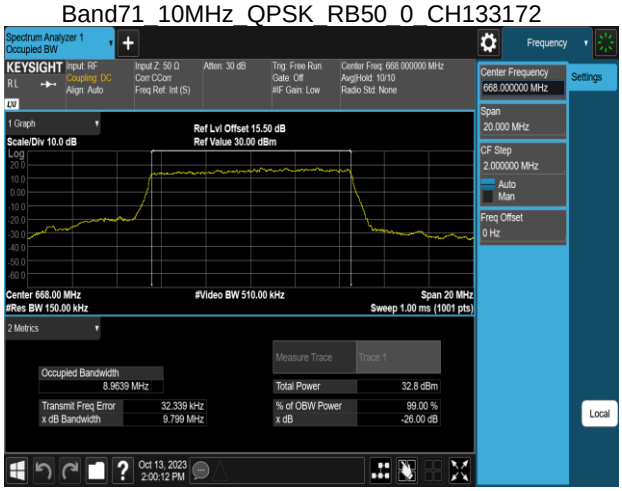
Band71_10MHz_QPSK_RB50_0_CH133172



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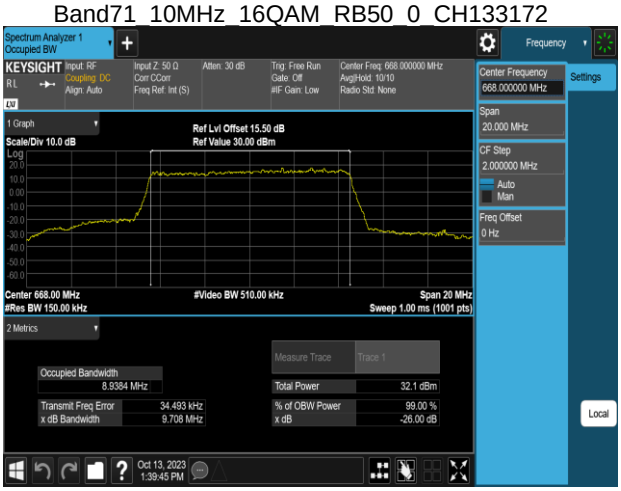

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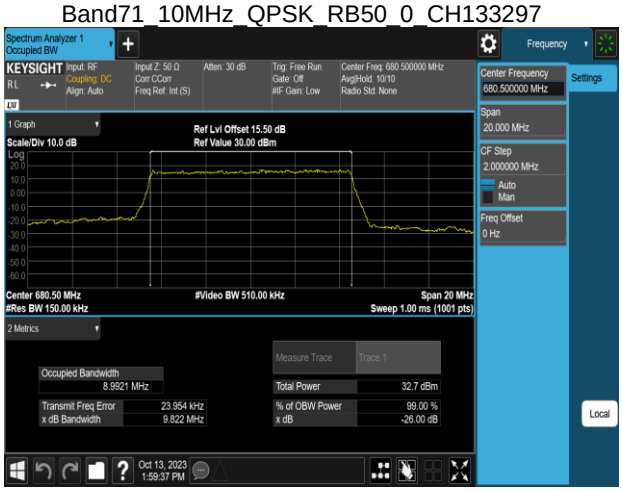

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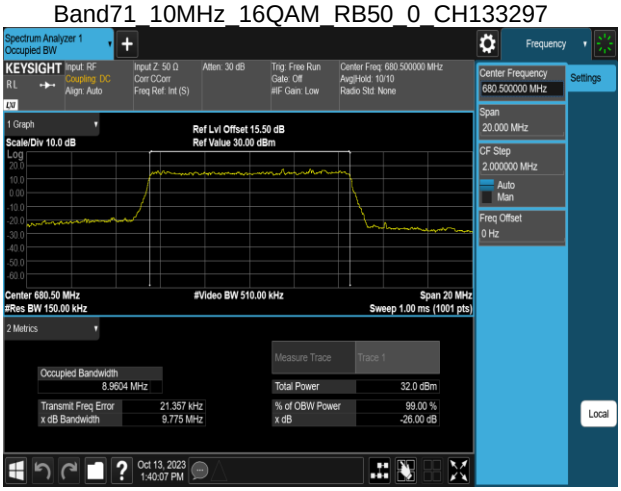
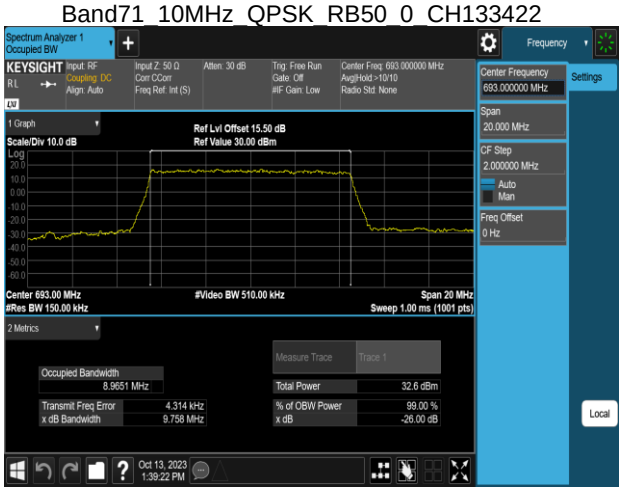


Band71_10MHz_QPSK_RB50_0_CH133422



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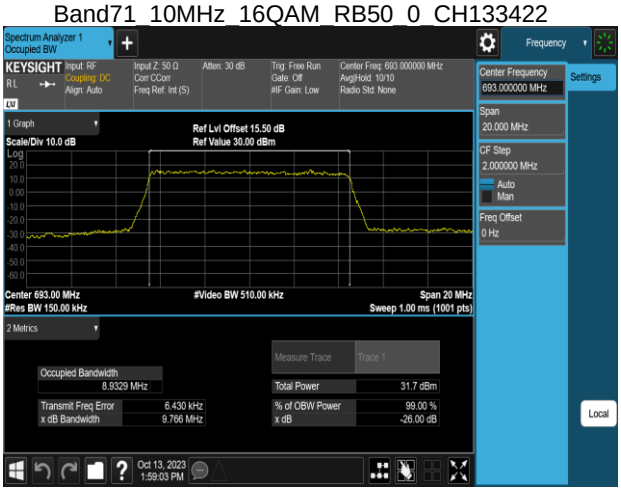

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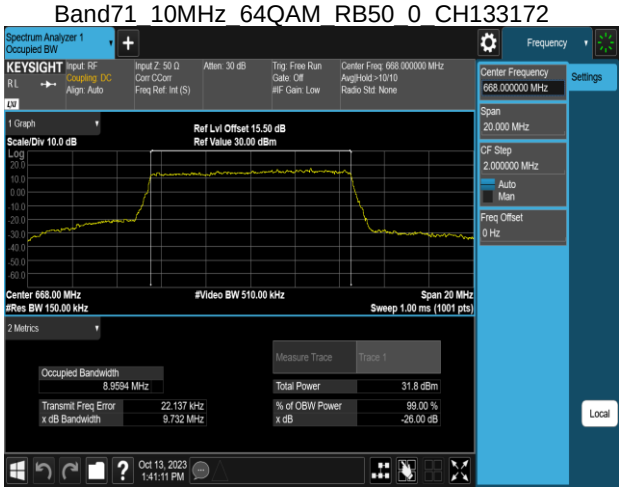
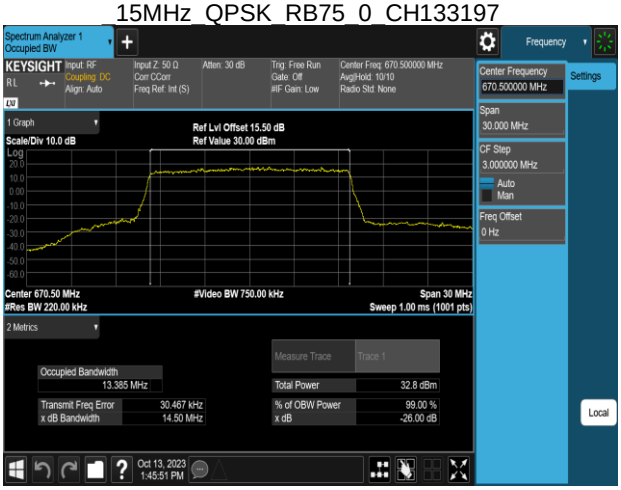
Band71_10MHz_64QAM_RB50_0_CH133172



15MHz_QPSK_RB75_0_CH133197



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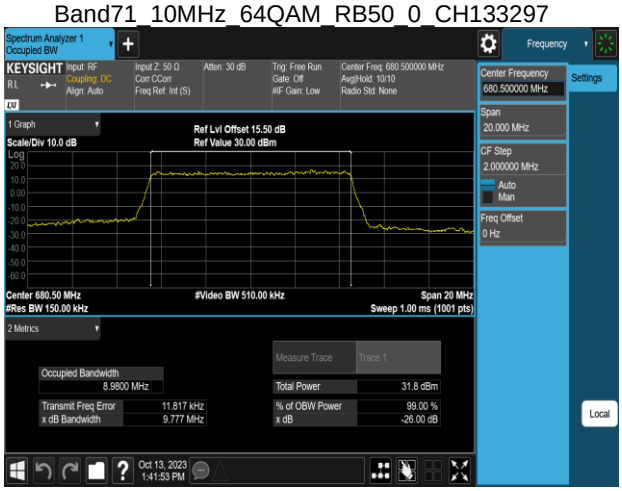

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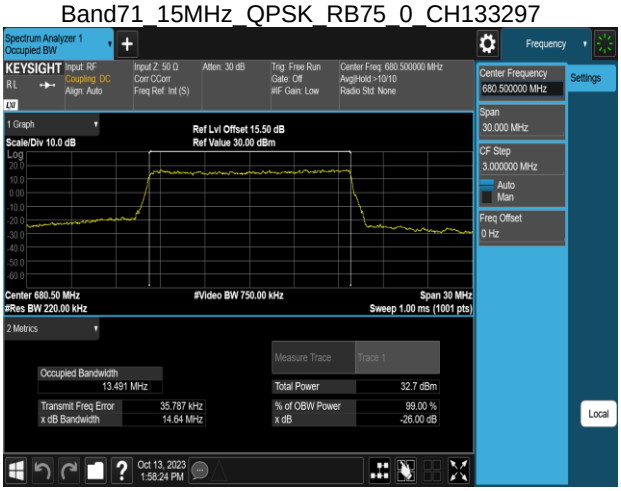

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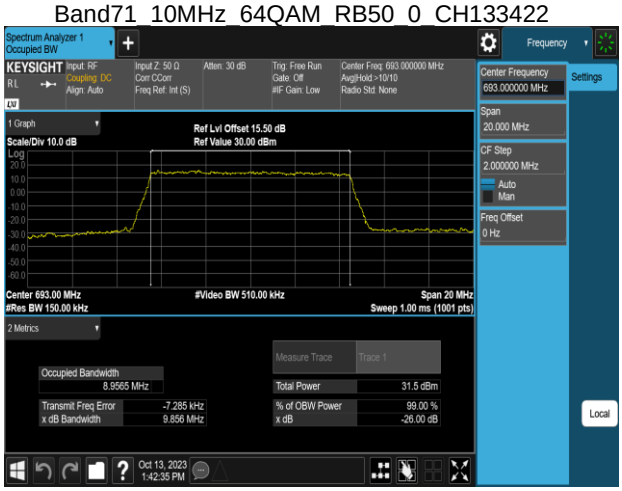

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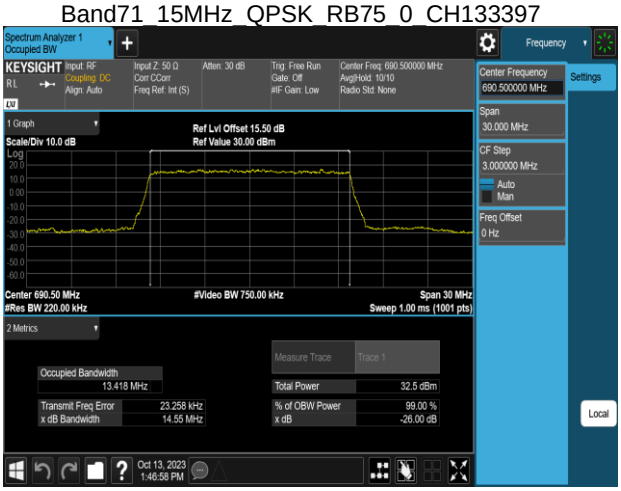

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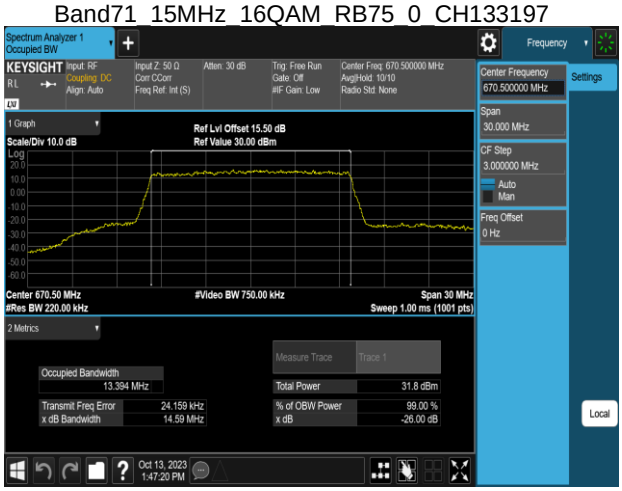
Band71_15MHz_16QAM_RB75_0_CH133197



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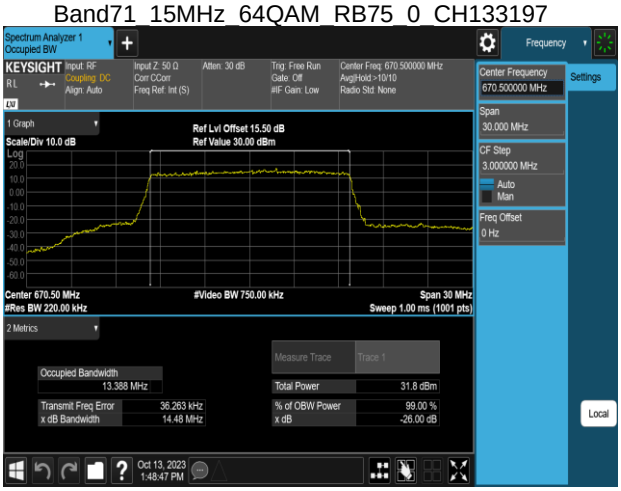

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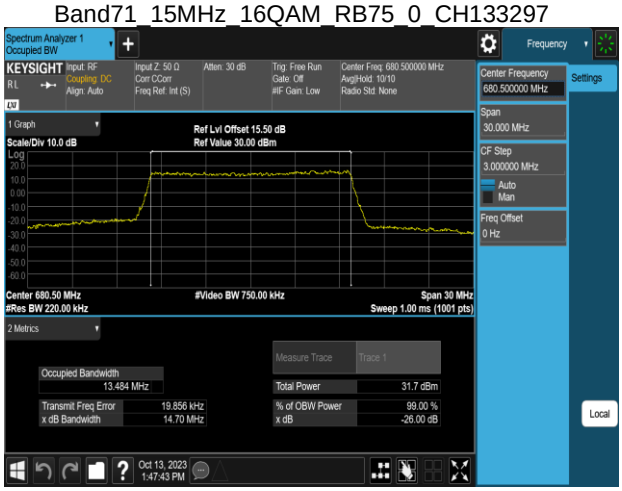

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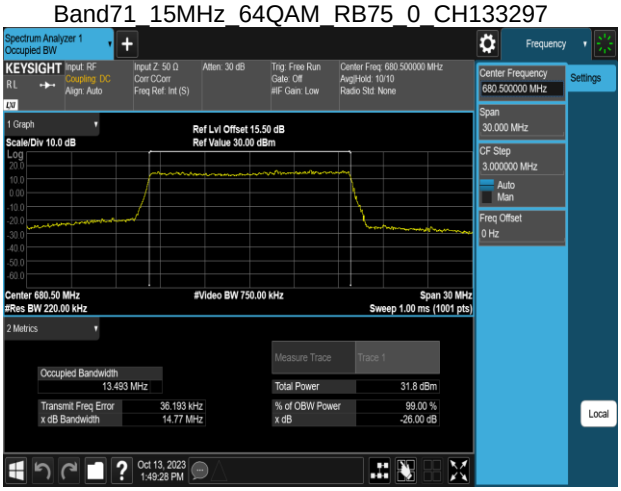

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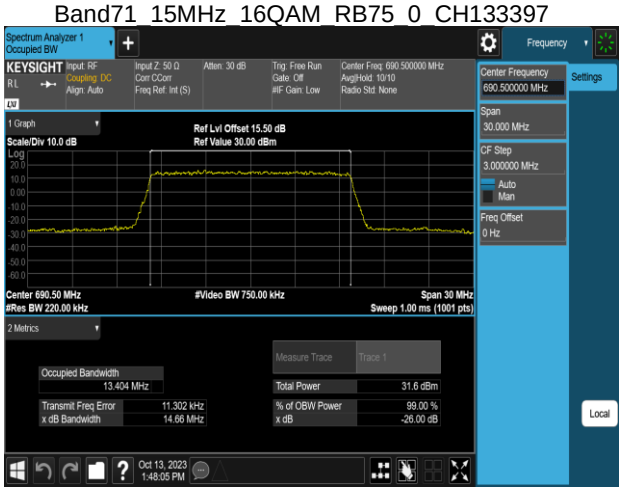
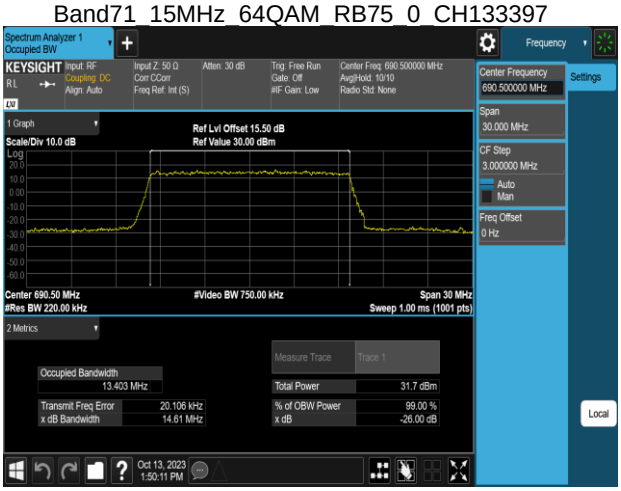


Band71_15MHz_64QAM_RB75_0_CH133397



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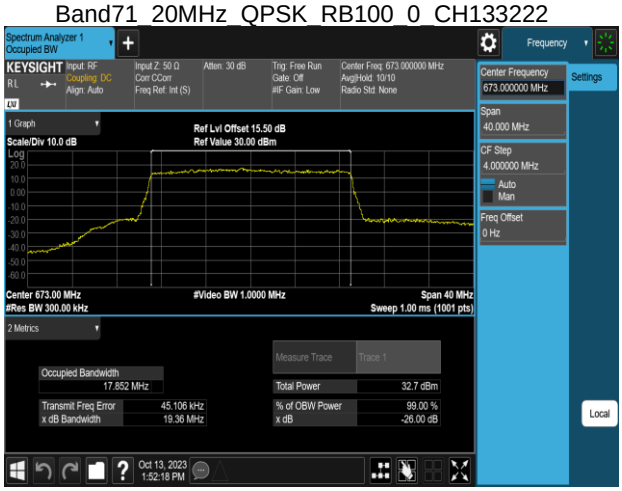
Band71_20MHz_QPSK_RB100_0_CH133222



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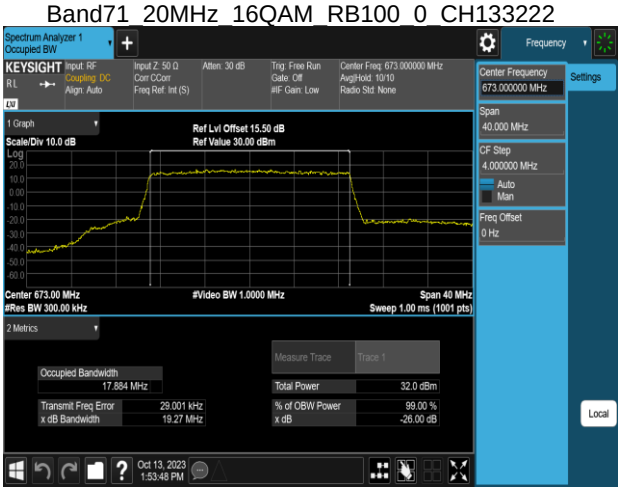

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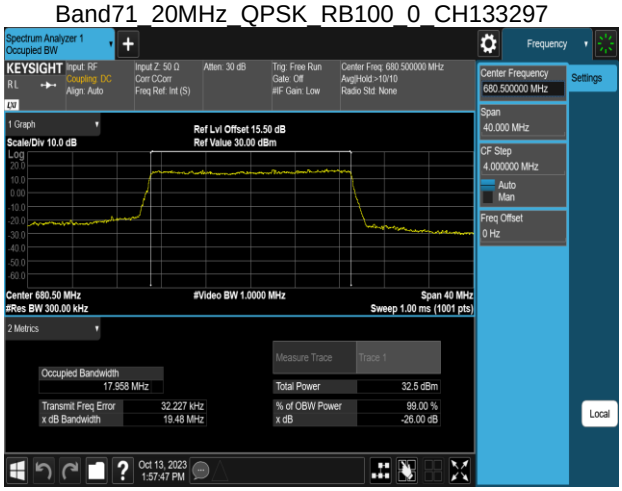

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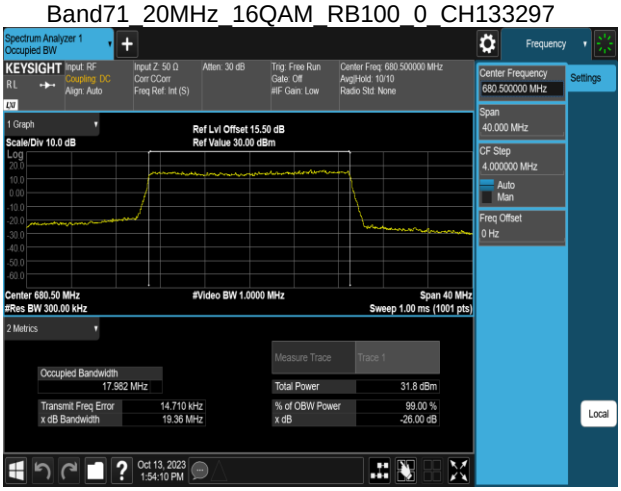

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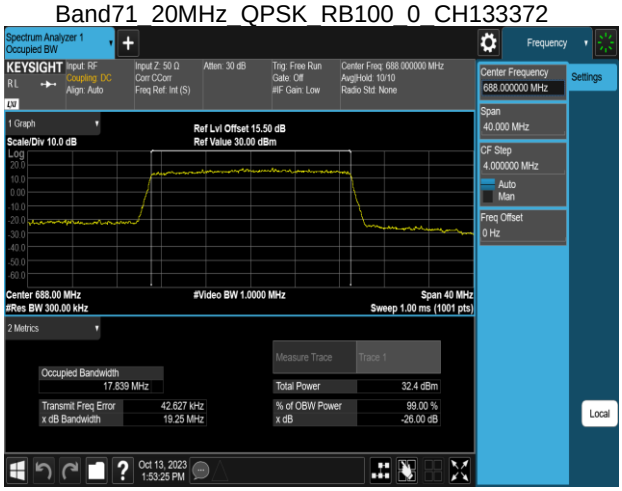

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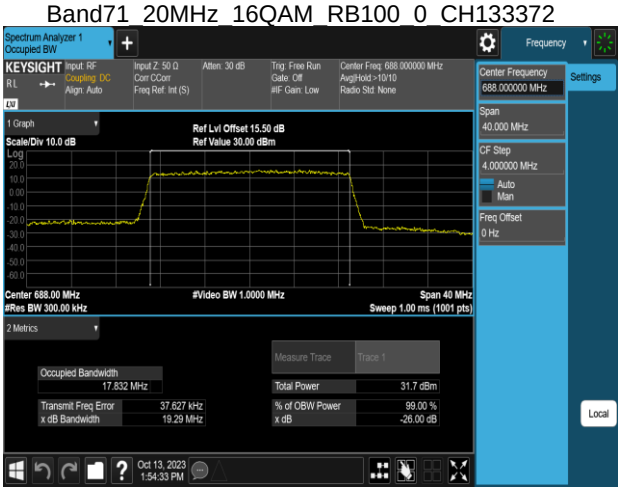

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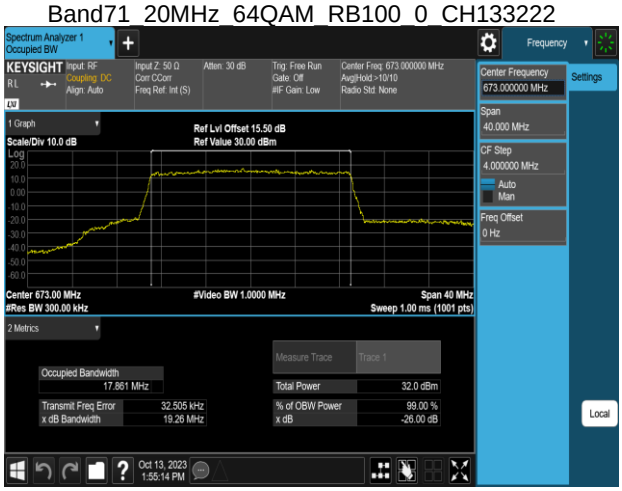
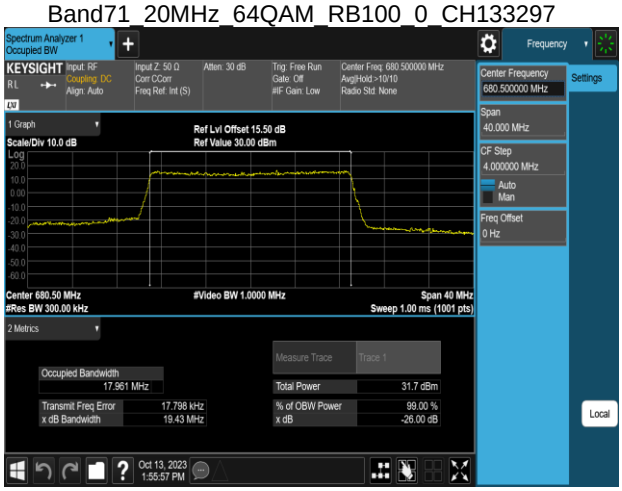
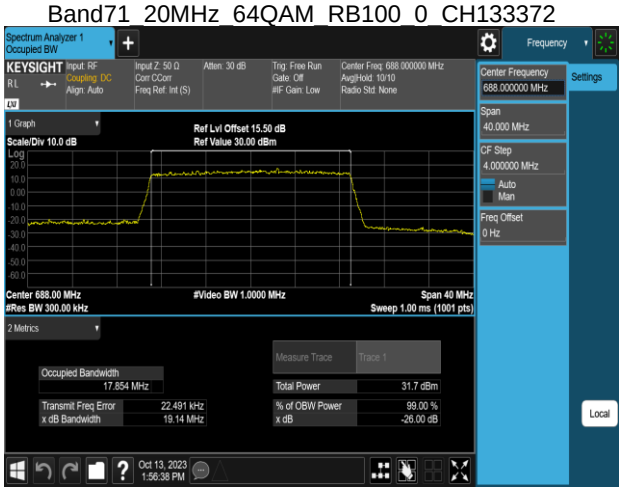
Band71_20MHz_64QAM_RB100_0_CH133222



Band71_20MHz_64QAM_RB100_0_CH133297



Band71_20MHz_64QAM_RB100_0_CH133372



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8.4 PEAK TO AVERAGE RATIO

LIMIT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

TEST PROCEDURES

1. According to KDB 971168 D01,
2. The EUT was connect to spectrum analyzer and call box.
3. Set the CCDF function in spectrum analyzer.
4. The highest RF output power were measured and recorded the maximum PAPR level associated with a probability of 0.1%.
5. Record the Peak to Average Power Ratio.

Note: We selected worst case to performed test in middle channel, the results can be meet other channel.

TEST RESULTS

Compliance

Temperature:	21.6~25.6℃	**Test date:**	October 13~December 15, 2023
Humidity:	50~62% RH	**Tested by:**	Allen Shen

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Test Data

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.77	13	1851.5	18615	6.45	13
1880.0	18900	6.63	13	1880.0	18900	6.57	13
1909.3	19193	6.72	13	1908.5	19185	5.94	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.40	13	1855.0	18650	6.27	13
1880.0	18900	6.28	13	1880.0	18900	6.50	13
1907.5	19175	6.38	13	1905.0	19150	6.37	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.07	13	1860.0	18700	6.34	13
1880.0	18900	6.18	13	1880.0	18900	6.29	13
1902.5	19125	6.05	13	1900.0	19100	6.42	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)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.41	13	1711.5	19965	6.49	13
1732.5	20175	6.34	13	1732.5	20175	6.18	13
1754.3	20393	6.19	13	1753.5	20385	6.23	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19975	6.37	13	1715.0	20000	6.35	13
1732.5	20175	6.15	13	1732.5	20175	6.33	13
1752.5	20375	6.25	13	1750.0	20350	6.15	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	5.91	13	1720.0	20050	6.03	13
1732.5	20175	6.06	13	1732.5	20175	6.18	13
1747.5	20325	6.06	13	1745.0	20300	6.26	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	5.86	13	825.5	20415	6.01	13
836.5	20525	5.97	13	836.5	20525	5.95	13
848.3	20643	5.69	13	847.5	20635	5.61	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	5.93	13	829.0	20450	6.03	13
836.5	20525	5.96	13	836.5	20525	5.84	13
846.5	20625	5.45	13	844.0	20600	5.72	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	5.89	13	2505.0	20800	5.96	13
2535.0	21100	6.05	13	2535.0	21100	6.08	13
2567.5	21375	6.00	13	2565.0	21350	6.10	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.02	13	2510	20850	5.94	13
2535.0	21100	5.90	13	2535	21100	5.86	13
2562.5	21375	5.99	13	2560	21350	5.86	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)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.25	13	700.5	23025	6.19	13
707.5	23095	6.64	13	707.5	23095	6.58	13
715.3	23173	6.28	13	714.5	23165	6.12	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.17	13	704.0	23060	6.26	13
707.5	23095	6.37	13	707.5	23095	6.18	13
713.5	23155	6.31	13	711.0	23130	6.20	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	5.72	13	782.0	23230	5.74	13
782.0	23230	5.68	13				
784.5	23255	6.15	13				

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LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	6.11	13	793.0	23330	5.74	13
793	23330	5.95	13				
795.5	23355	5.63	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	6.15	13	709.0	23780	6.31	13
710.0	23790	6.13	13	710.0	23790	6.20	13
713.5	23825	5.88	13	711.0	23800	6.07	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	6.71	13	1851.5	26055	6.41	13
1882.5	26365	6.47	13	1882.5	26365	6.60	13
1914.3	26683	6.07	13	1913.5	26675	5.98	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.36	13	1855.0	26090	6.39	13
1882.5	26365	6.18	13	1882.5	26365	6.25	13
1912.5	26665	6.03	13	1910.0	26640	6.25	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	6.14	13	1860.0	26140	6.10	13
1882.5	26365	6.02	13	1882.5	26365	6.09	13
1907.5	26615	6.20	13	1905.0	26590	6.19	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	26797	5.80	13	825.5	26805	5.73	13
836.5	26915	5.97	13	836.5	26915	6.00	13
848.3	27033	5.71	13	847.5	27025	5.55	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	26815	5.70	13	829.0	26840	5.75	13
836.5	26915	5.82	13	836.5	26915	5.93	13
846.5	27015	5.29	13	844.0	26990	5.24	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
831.5	26865	5.69	13				
836.5	26915	5.78	13				
841.5	26965	5.53	13				

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LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.25	13	815.5	26705	5.66	13
819.0	26740	5.58	13	819	26740	5.72	13
823.3	26783	5.92	13	822.5	26775	5.73	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.60	13	819.0	26740	5.91	13
819.0	26740	5.66	13				
821.5	26765	5.52	13				

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	7.71	13	2501.0	39700	9.74	13
2502.5	39715	9.35	13	2505.0	39740	5.70	13
2593.0	40620	5.76	13	2593.0	40620	5.66	13
2687.5	41565	5.68	13	2685.0	41540	5.83	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	5.81	13	2506.0	39750	5.72	13
2507.5	39765	7.96	13	2510.0	39790	5.56	13
2593.0	40620	8.77	13	2593.0	40620	5.52	13
2682.5	41515	6.51	13	2680.0	41490	5.62	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)	
		64QAM	Limit			64QAM	Limit
1710.7	131979	6.31	13	1711.5	131987	6.14	13
1745.0	132322	6.39	13	1745.0	132322	6.03	13
1779.3	132665	6.10	13	1778.5	132657	6.08	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	131997	6.47	13	1715.0	132022	6.05	13
1745.0	132322	6.37	13	1745.0	132322	5.98	13
1777.5	132647	6.22	13	1775.0	132622	6.01	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.01	13	1720.0	132072	5.66	13
1745.0	132322	5.94	13	1745.0	132322	5.83	13
1772.5	132597	6.04	13	1770.0	132572	6.29	13

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LTE BAND 71							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
665.5	133147	6.71	13	668.0	133172	6.35	13
680.5	133297	6.42	13	680.5	133297	6.73	13
695.5	133447	6.32	13	693.0	133422	6.31	13

LTE BAND 71							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
670.5	133197	6.17	13	673.0	133222	6.34	13
680.5	133297	6.37	13	680.5	133297	6.57	13
690.5	133397	6.08	13	688.0	133372	6.16	13

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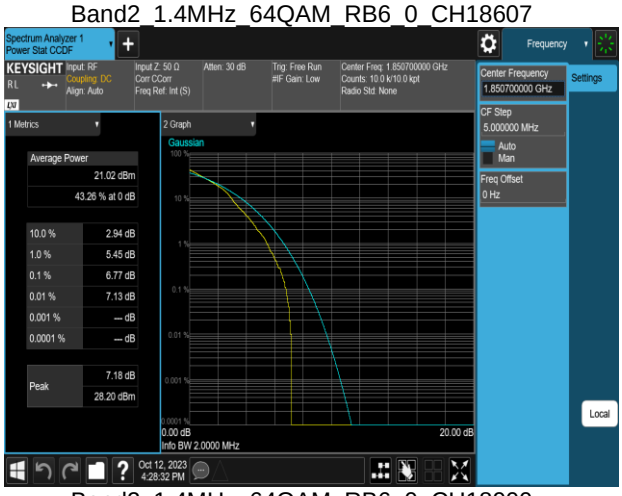
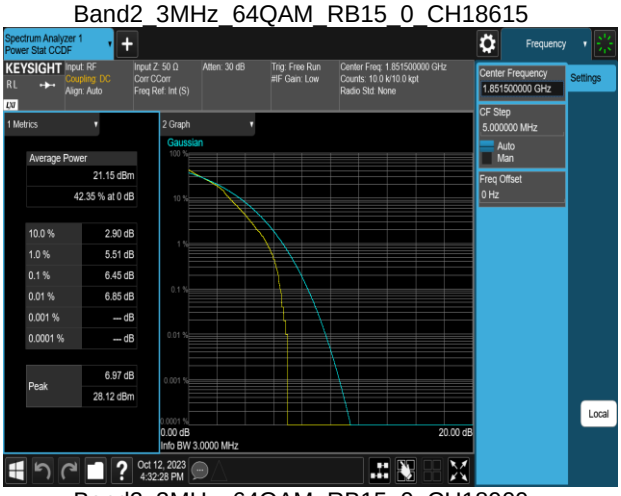
Test Plot(s)

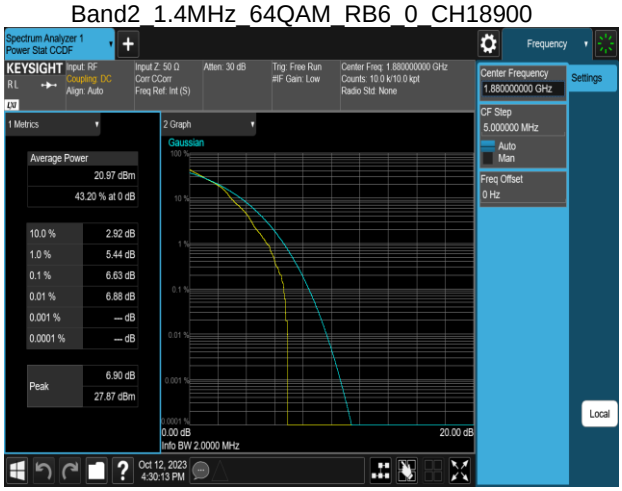
Band2_1.4MHz_64QAM_RB6_0_CH18607



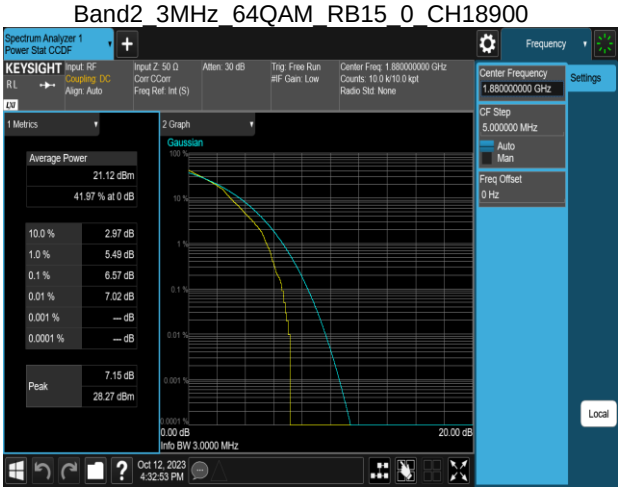
Band2_3MHz_64QAM_RB15_0_CH18615



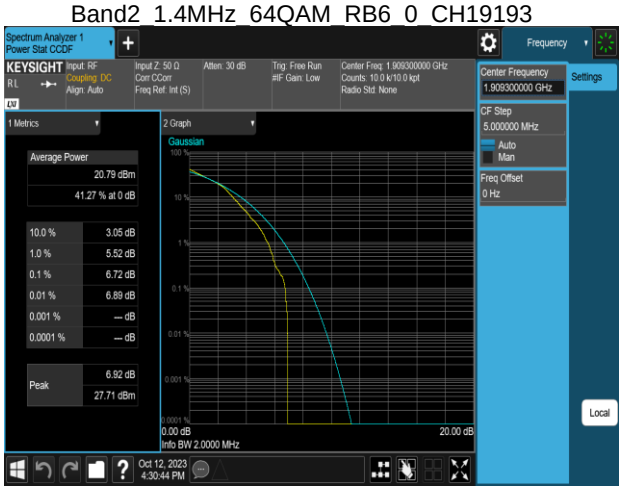
Band2_1.4MHz_64QAM_RB6_0_CH18900



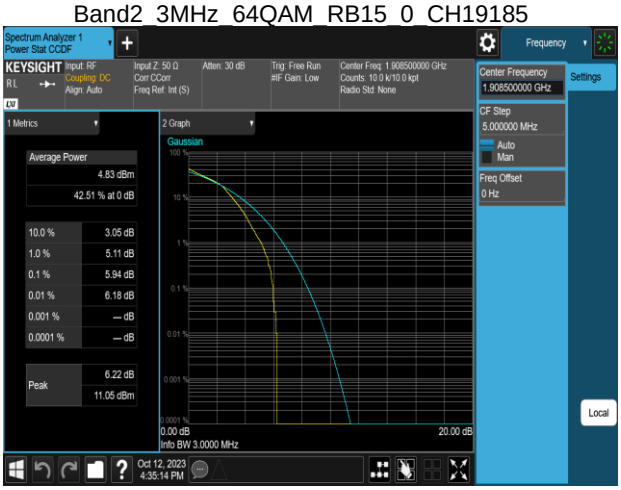
Band2_3MHz_64QAM_RB15_0_CH18900



Band2_1.4MHz_64QAM_RB6_0_CH19193



Band2_3MHz_64QAM_RB15_0_CH19185



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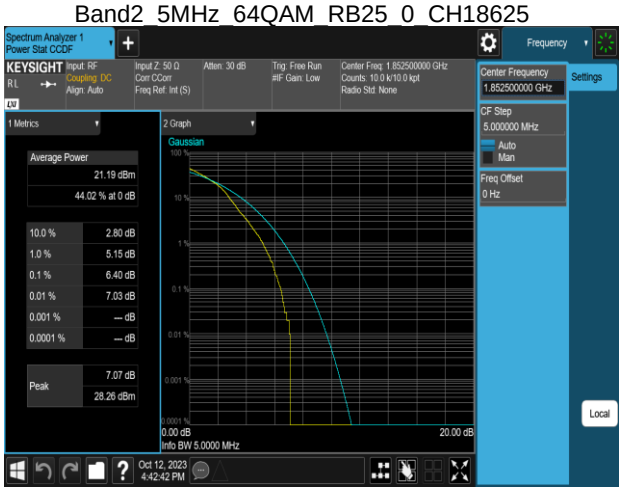
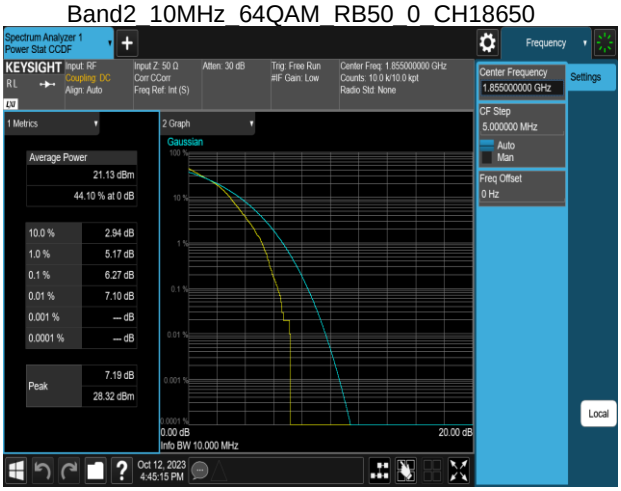
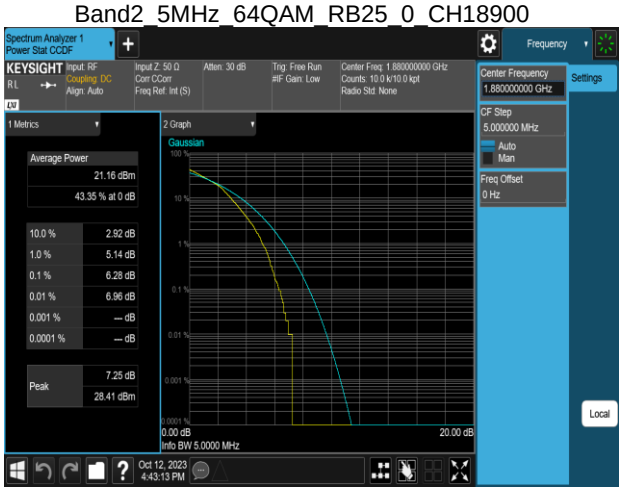
Band2_5MHz_64QAM_RB25_0_CH18625



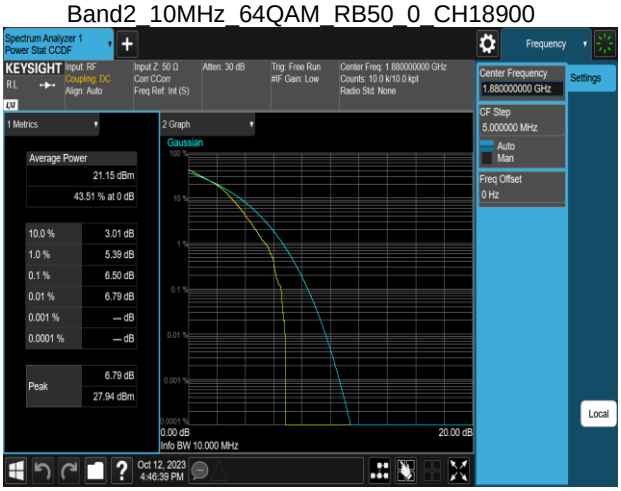
Band2_10MHz_64QAM_RB50_0_CH18650



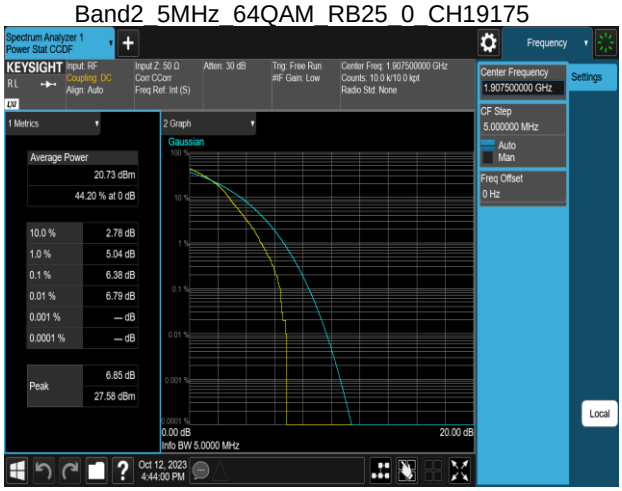
Band2_5MHz_64QAM_RB25_0_CH18900



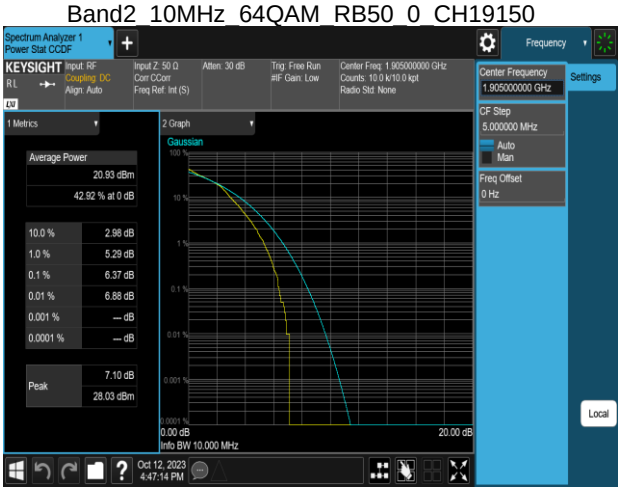
Band2_10MHz_64QAM_RB50_0_CH18900



Band2_5MHz_64QAM_RB25_0_CH19175



Band2_10MHz_64QAM_RB50_0_CH19150



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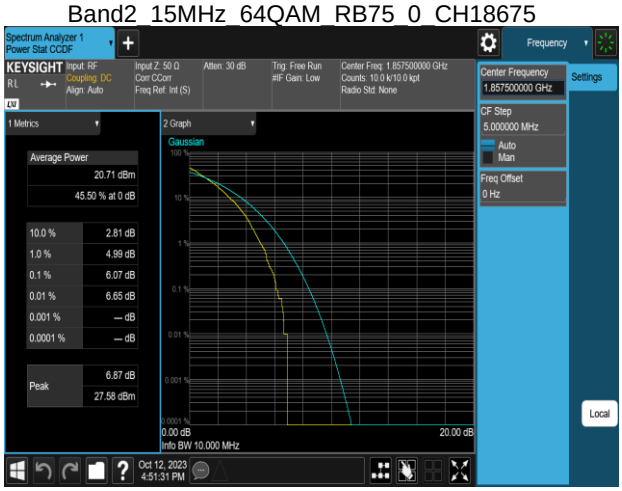
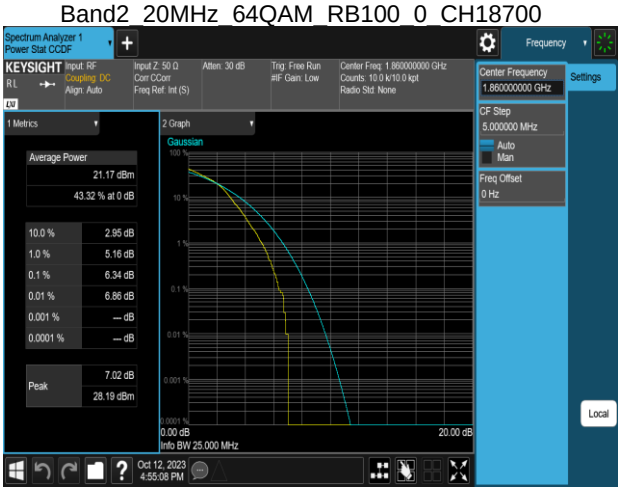
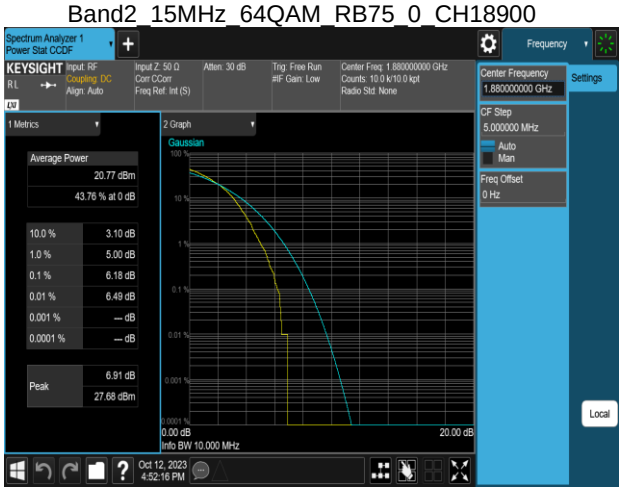
Band2_15MHz_64QAM_RB75_0_CH18675



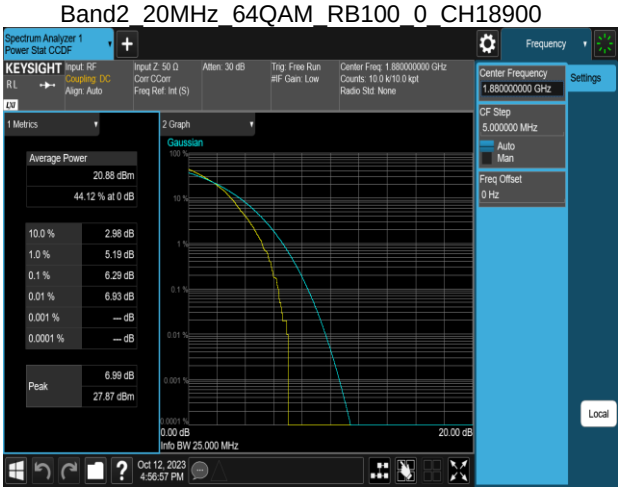
Band2_20MHz_64QAM_RB100_0_CH18700



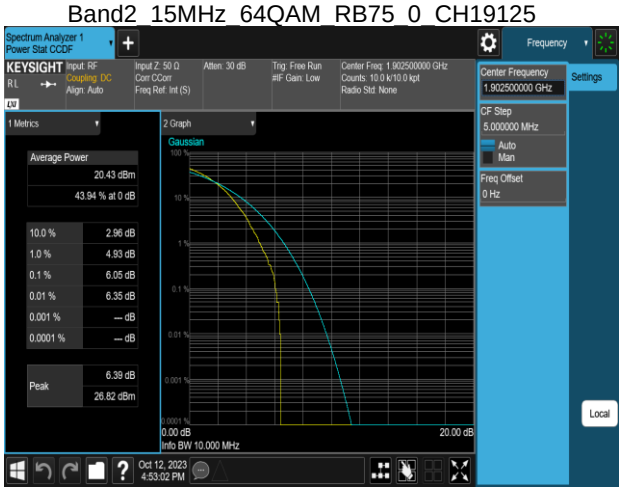
Band2_15MHz_64QAM_RB75_0_CH18900



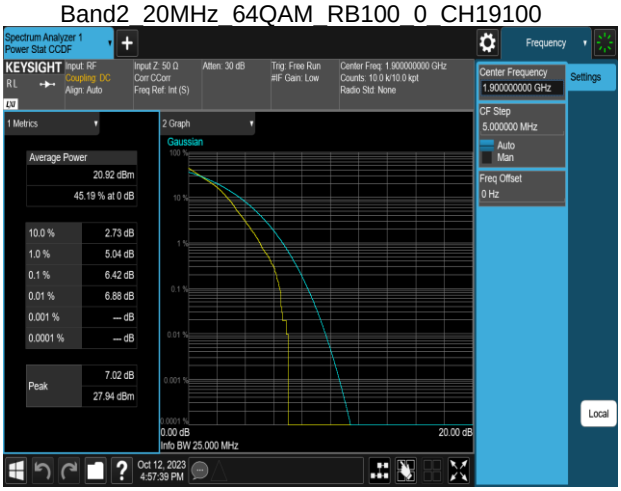
Band2_20MHz_64QAM_RB100_0_CH18900



Band2_15MHz_64QAM_RB75_0_CH19125



Band2_20MHz_64QAM_RB100_0_CH19100



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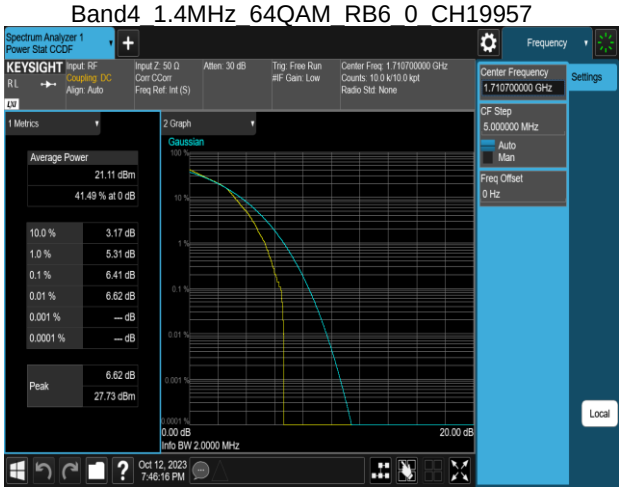
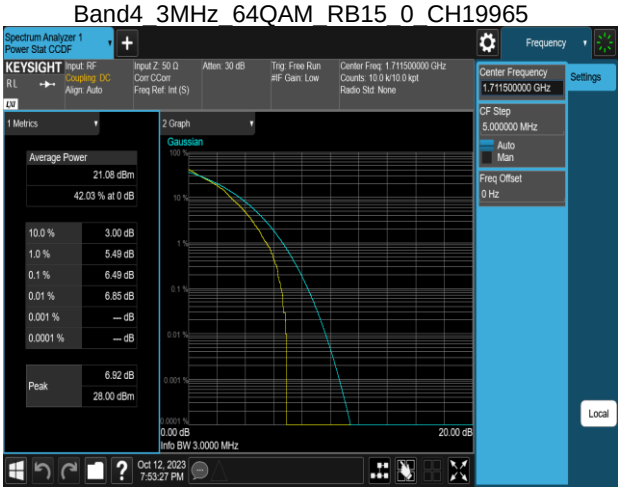
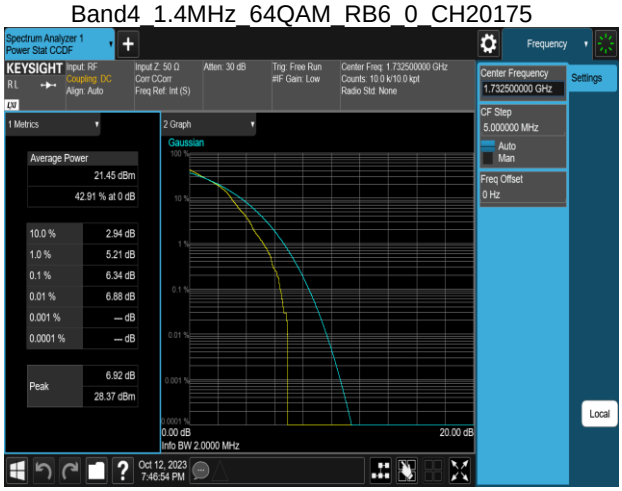
Band4_1.4MHz_64QAM_RB6_0_CH19957



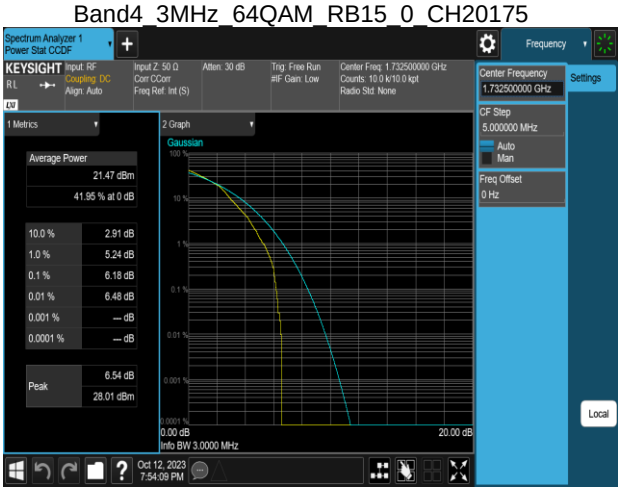
Band4_3MHz_64QAM_RB15_0_CH19965



Band4_1.4MHz_64QAM_RB6_0_CH20175



Band4_3MHz_64QAM_RB15_0_CH20175



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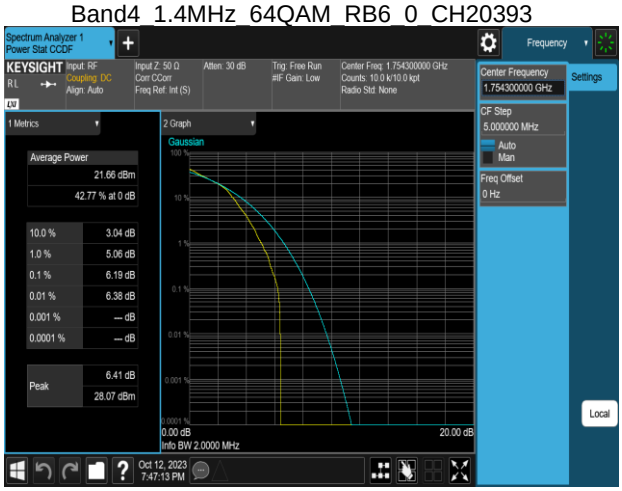
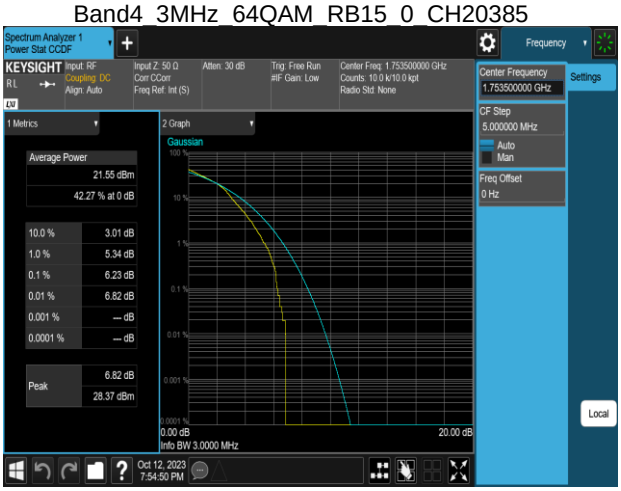


Band4_3MHz_64QAM_RB15_0_CH20385



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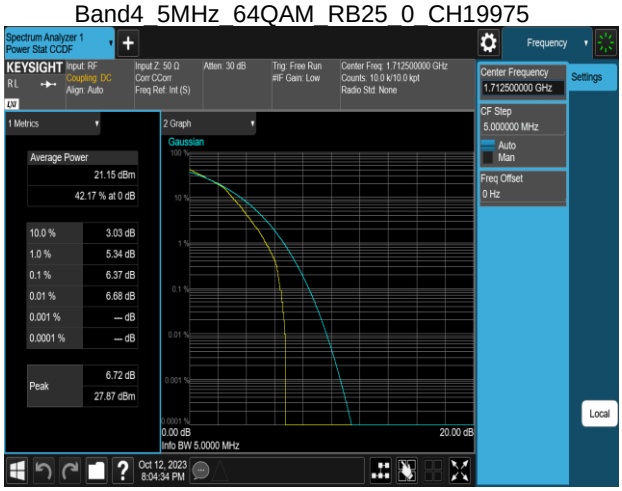
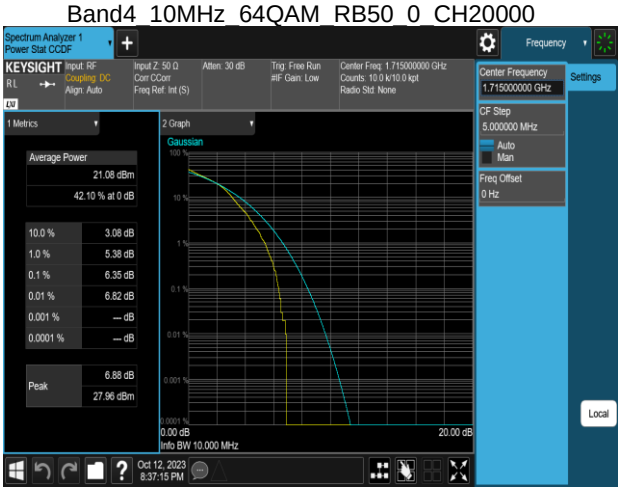
Band4_5MHz_64QAM_RB25_0_CH19975



Band4_10MHz_64QAM_RB50_0_CH20000



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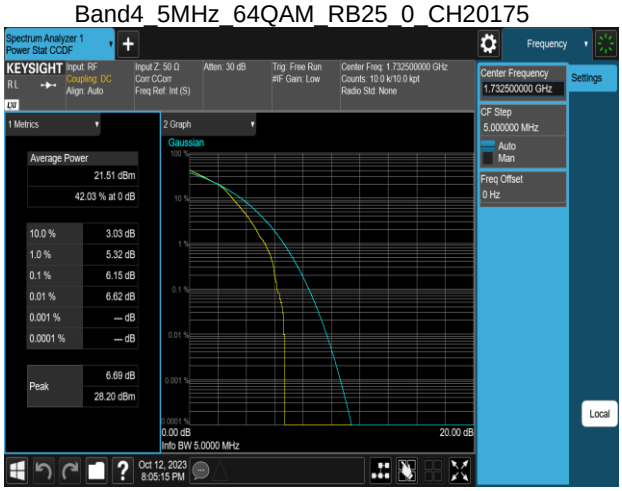
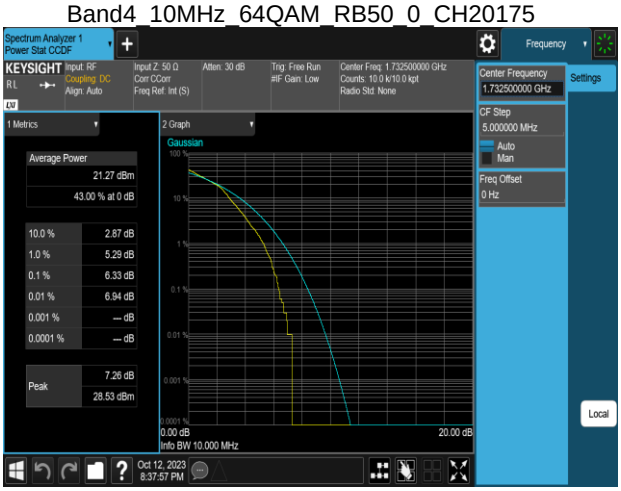


Band4_10MHz_64QAM_RB50_0_CH20175



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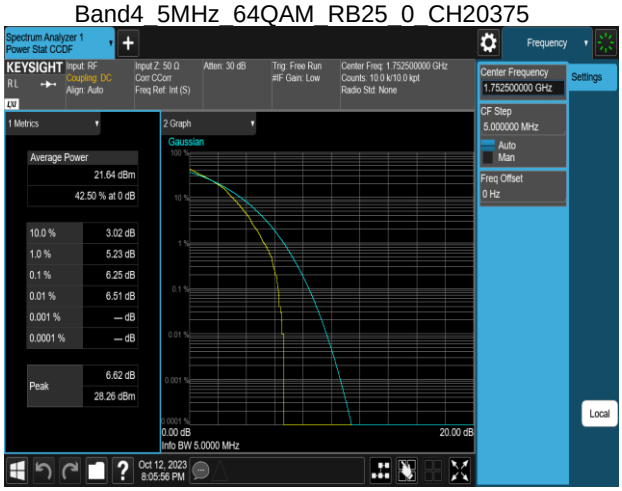

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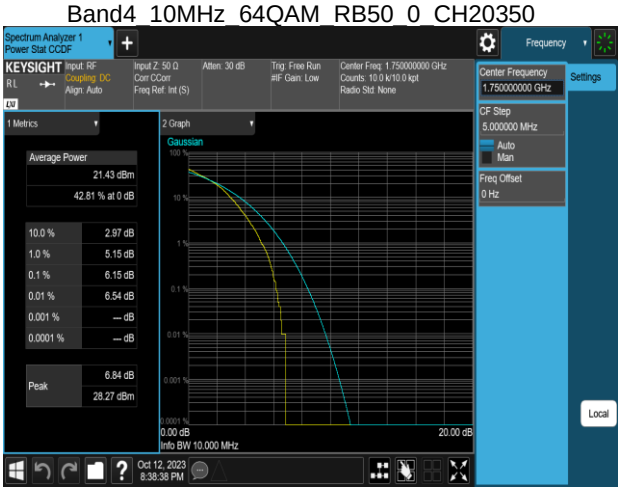

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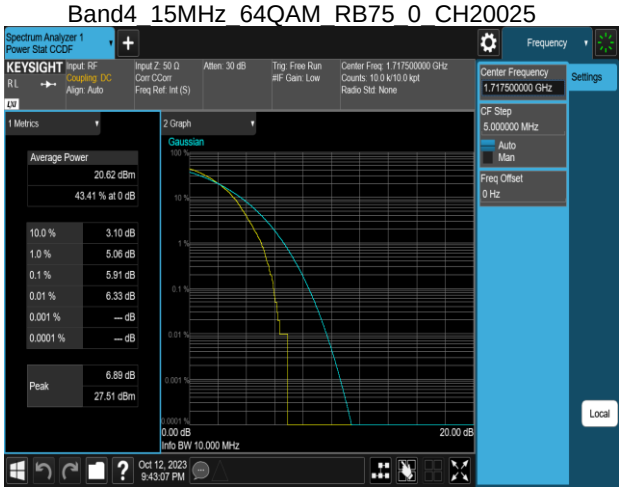
Band4_15MHz_64QAM_RB75_0_CH20025



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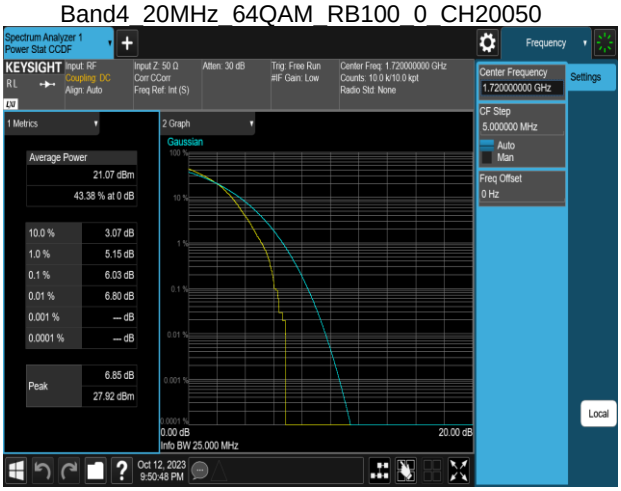
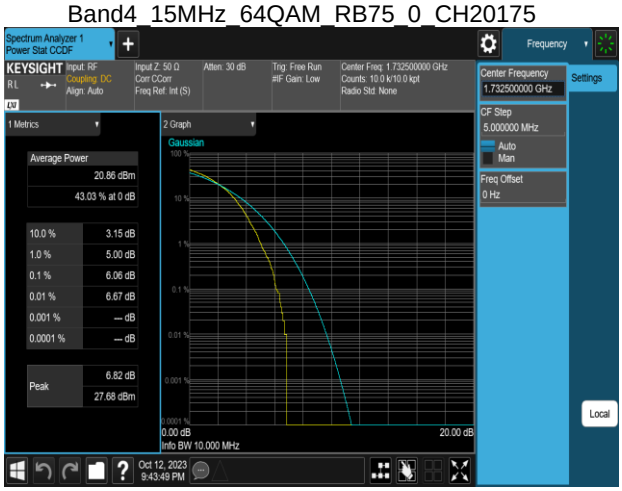
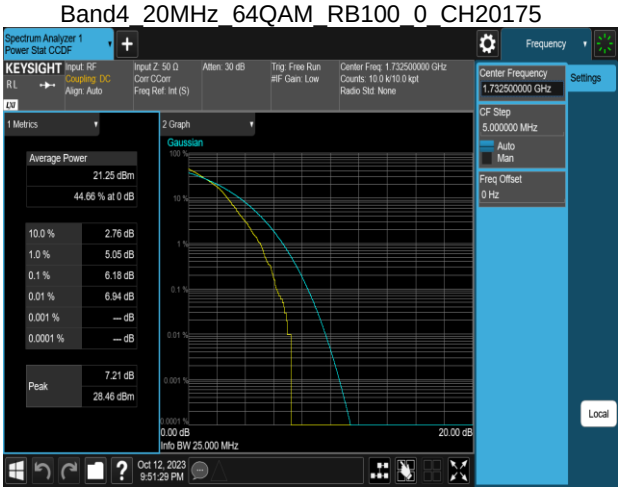


Band4_15MHz_64QAM_RB75_0_CH20175



Band4_20MHz_64QAM_RB100_0_CH20175



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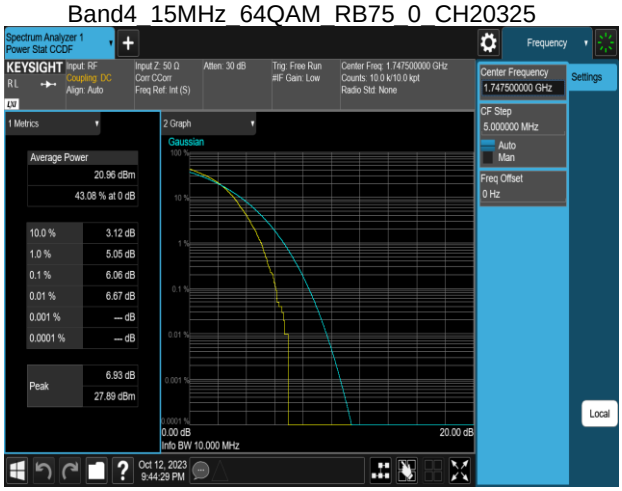

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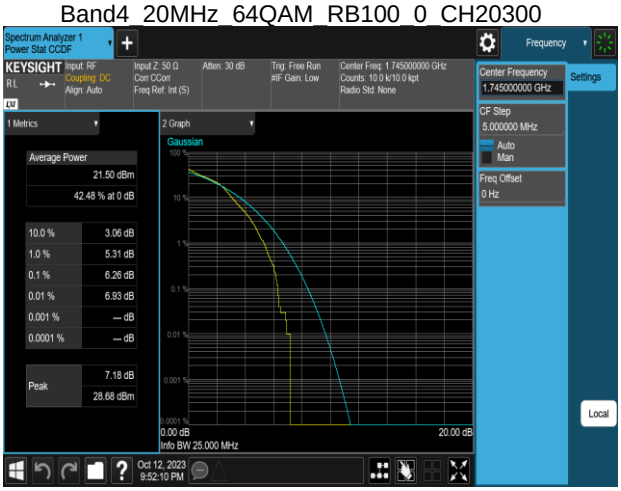

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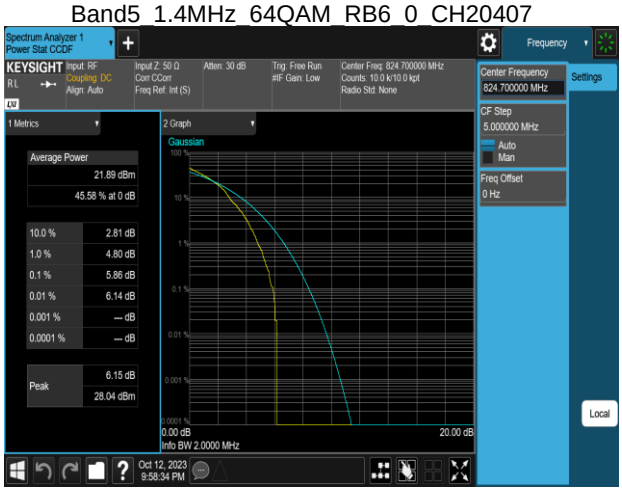
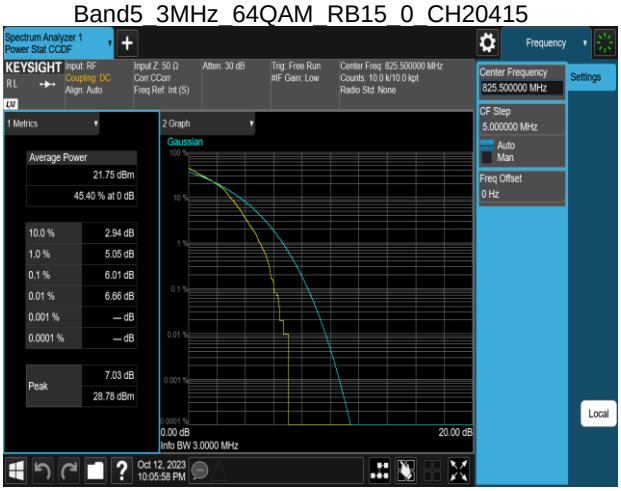
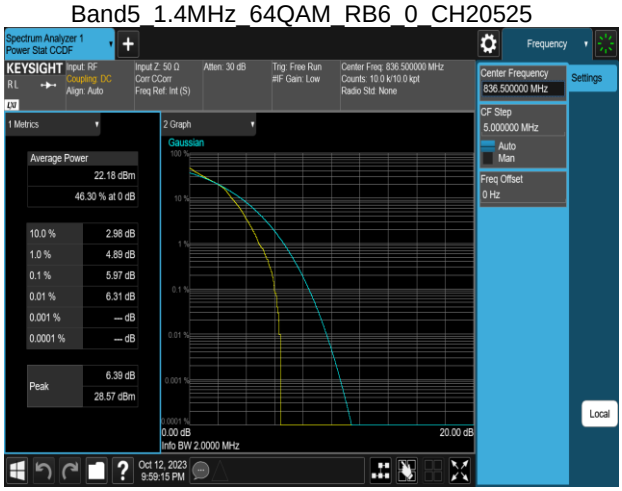
Band5_1.4MHz_64QAM_RB6_0_CH20407



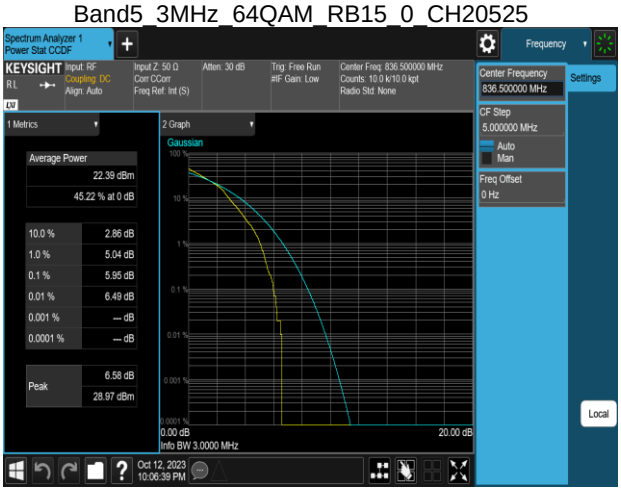
Band5_3MHz_64QAM_RB15_0_CH20415



Band5_1.4MHz_64QAM_RB6_0_CH20525



Band5_3MHz_64QAM_RB15_0_CH20525



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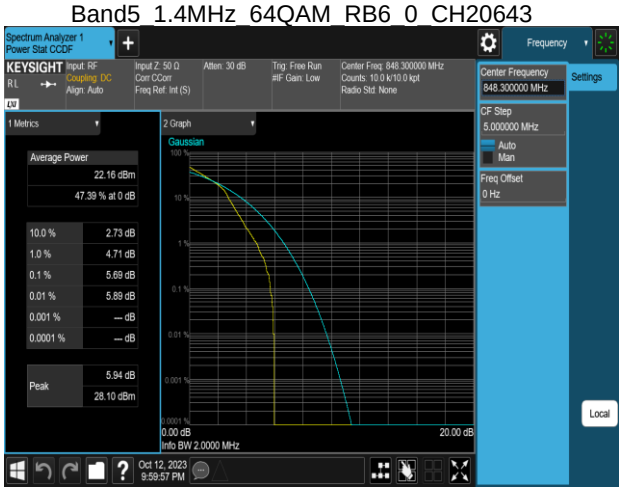

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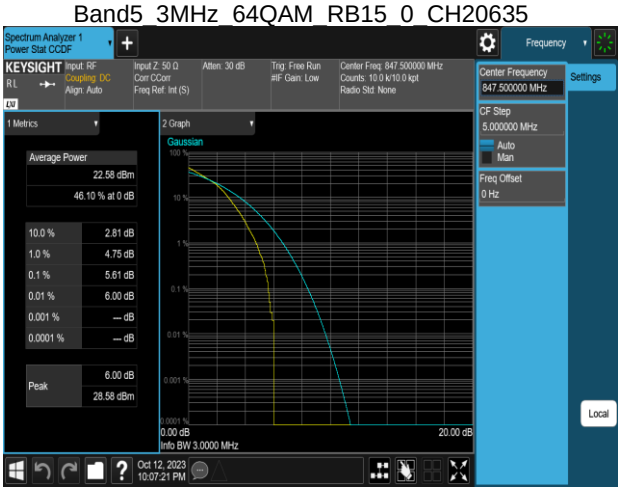

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