



BUREAU
VERITAS

Test Report No.: W7L-P23010024RF05



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	0.63	0.000340	±2.5	PASS
Band2	9262	VN	NT	-0.54	-0.000292	±2.5	PASS
Band2	9262	VH	NT	-0.71	-0.000383	±2.5	PASS
Band2	9400	VL	NT	0.52	0.000277	±2.5	PASS
Band2	9400	VN	NT	-2.17	-0.001154	±2.5	PASS
Band2	9400	VH	NT	0.53	0.000282	±2.5	PASS
Band2	9538	VL	NT	-0.39	-0.000204	±2.5	PASS
Band2	9538	VN	NT	-2.25	-0.001179	±2.5	PASS
Band2	9538	VH	NT	0.73	0.000383	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.59	0.000319	±2.5	PASS
Band2	9262	NV	-20	1.52	0.000821	±2.5	PASS
Band2	9262	NV	0	-1.83	-0.000988	±2.5	PASS
Band2	9262	NV	10	0.72	0.000389	±2.5	PASS
Band2	9262	NV	20	-1.4	-0.000756	±2.5	PASS
Band2	9262	NV	30	1.77	0.000953	±2.5	PASS
Band2	9262	NV	40	0.28	0.000149	±2.5	PASS
Band2	9262	NV	50	-0.72	-0.000386	±2.5	PASS
Band2	9400	NV	-30	-0.09	-0.000048	±2.5	PASS
Band2	9400	NV	-20	1.67	0.000888	±2.5	PASS
Band2	9400	NV	0	0.54	0.000287	±2.5	PASS
Band2	9400	NV	10	-0.26	-0.000138	±2.5	PASS
Band2	9400	NV	20	-1.27	-0.000676	±2.5	PASS
Band2	9400	NV	30	-0.51	-0.000270	±2.5	PASS
Band2	9400	NV	40	-1.02	-0.000545	±2.5	PASS
Band2	9400	NV	50	1.18	0.000628	±2.5	PASS
Band2	9538	NV	-30	-0.90	-0.000473	±2.5	PASS
Band2	9538	NV	-20	1.65	0.000862	±2.5	PASS
Band2	9538	NV	0	3.12	0.001634	±2.5	PASS
Band2	9538	NV	10	1.52	0.000798	±2.5	PASS



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Band2	9538	NV	20	-1.52	-0.000799	±2.5	PASS
Band2	9538	NV	30	2.80	0.001467	±2.5	PASS
Band2	9538	NV	40	1.68	0.000880	±2.5	PASS
Band2	9538	NV	50	-0.84	-0.000442	±2.5	PASS

LTE BAND2

PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	5.75	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	5.70	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	5.47	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	6.44	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.64	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	6.50	13	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	6.74	13	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	6.69	13	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	6.65	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.71	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.70	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	5.52	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.53	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.58	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	6.47	13	PASS
Band2	3MHz	64QAM	18615	15RB#0	6.63	13	PASS
Band2	3MHz	64QAM	18900	15RB#0	6.68	13	PASS
Band2	3MHz	64QAM	19185	15RB#0	6.58	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.59	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.67	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.52	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	6.36	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.39	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	6.26	13	PASS
Band2	5MHz	64QAM	18625	25RB#0	6.59	13	PASS
Band2	5MHz	64QAM	18900	25RB#0	6.59	13	PASS
Band2	5MHz	64QAM	19175	25RB#0	6.54	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.65	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.74	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.65	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.46	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.43	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	6.32	13	PASS
Band2	10MHz	64QAM	18650	50RB#0	6.67	13	PASS
Band2	10MHz	64QAM	18900	50RB#0	6.59	13	PASS
Band2	10MHz	64QAM	19150	50RB#0	6.52	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.94	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	6.06	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.93	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.40	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.52	13	PASS



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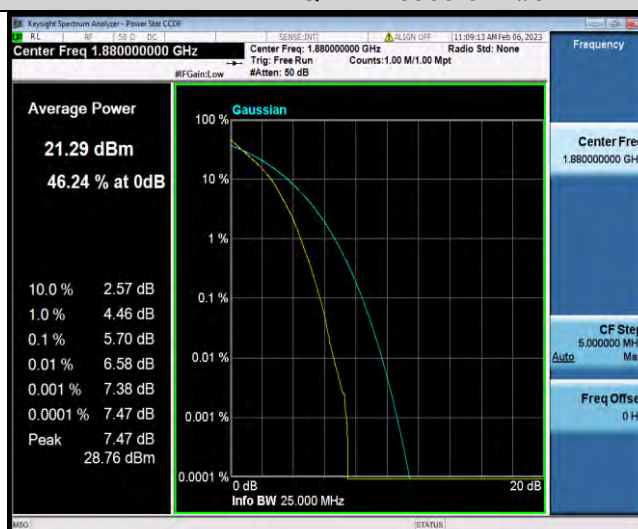
Band2	15MHz	16QAM	19125	75RB#0	6.42	13	PASS
Band2	15MHz	64QAM	18675	75RB#0	6.62	13	PASS
Band2	15MHz	64QAM	18900	75RB#0	6.62	13	PASS
Band2	15MHz	64QAM	19125	75RB#0	6.55	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.66	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.84	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.63	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.38	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.51	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.40	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.65	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.69	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.65	13	PASS

Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-18900-6RB#0



Band2-1.4MHz-QPSK-19193-6RB#0



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Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-18900-6RB#0

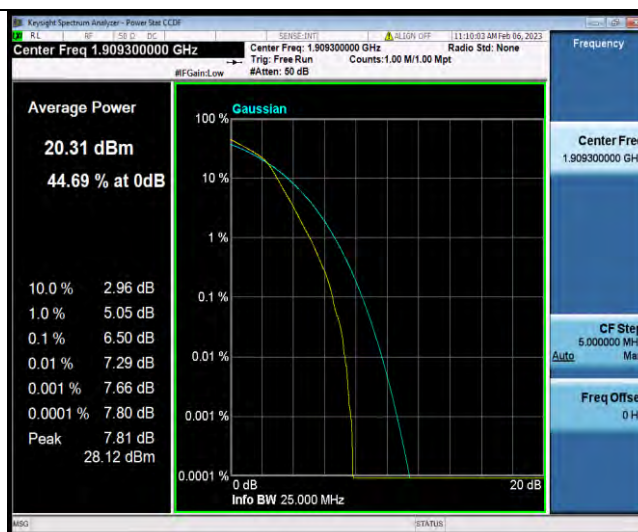


Band2-1.4MHz-16QAM-19193-6RB#0



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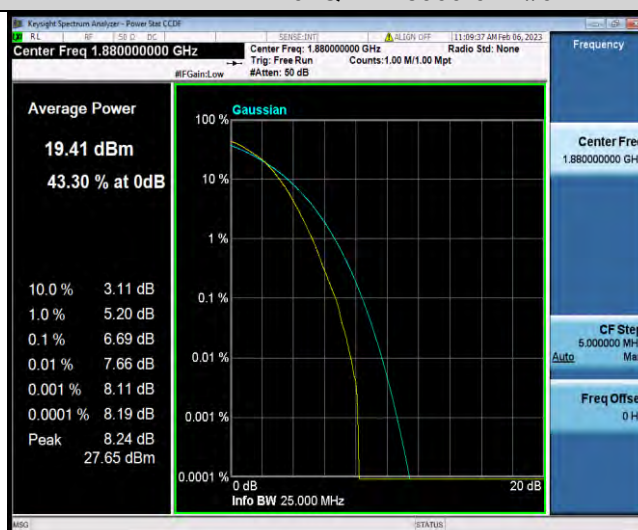
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Band2-1.4MHz-64QAM-18607-6RB#0



Band2-1.4MHz-64QAM-18900-6RB#0



Band2-1.4MHz-64QAM-19193-6RB#0

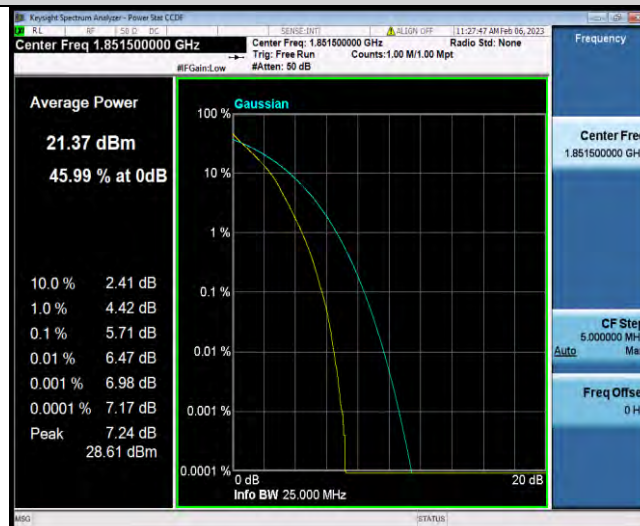


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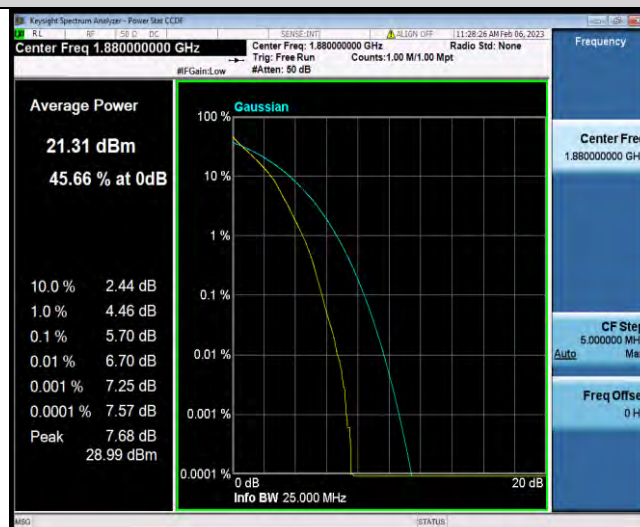
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Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-18900-15RB#0

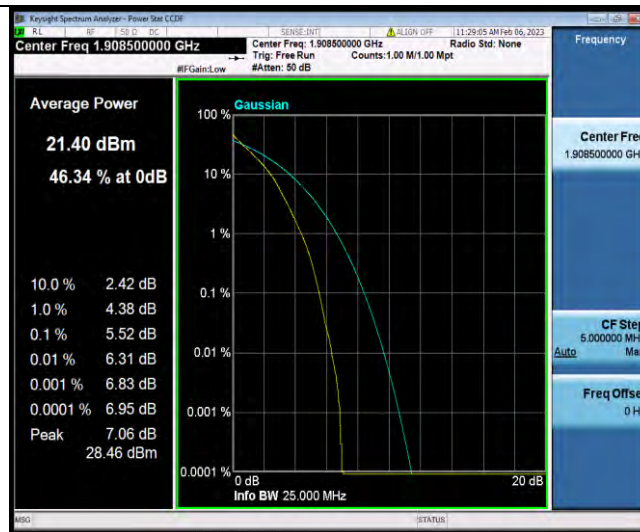


Band2-3MHz-QPSK-19185-15RB#0



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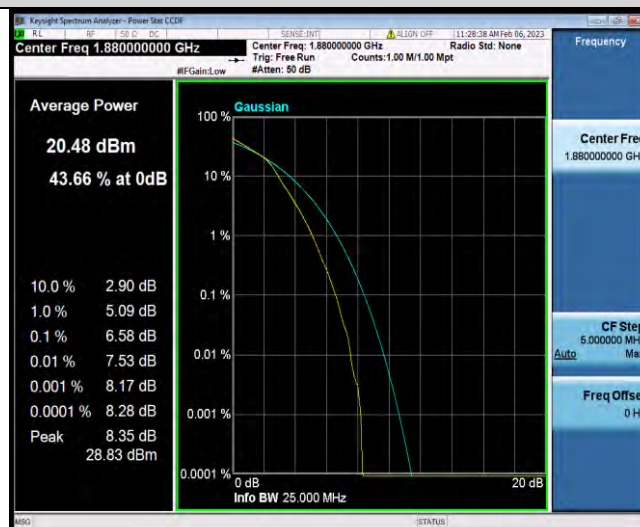
Test Report No.: W7L-P23010024RF05



Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-18900-15RB#0



Band2-3MHz-16QAM-19185-15RB#0



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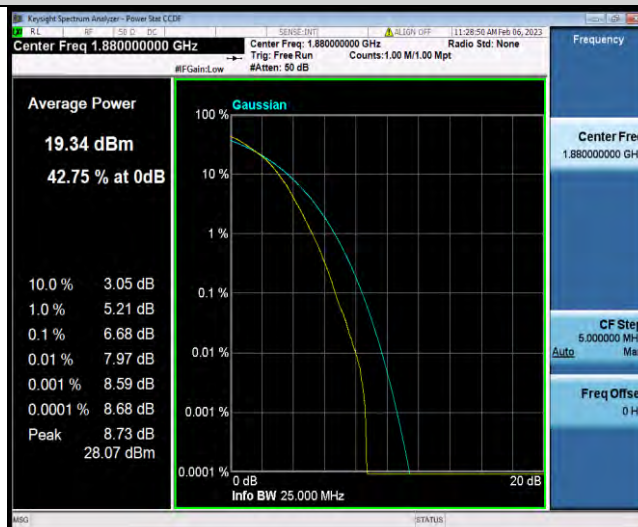
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Band2-3MHz-64QAM-18615-15RB#0



Band2-3MHz-64QAM-18900-15RB#0

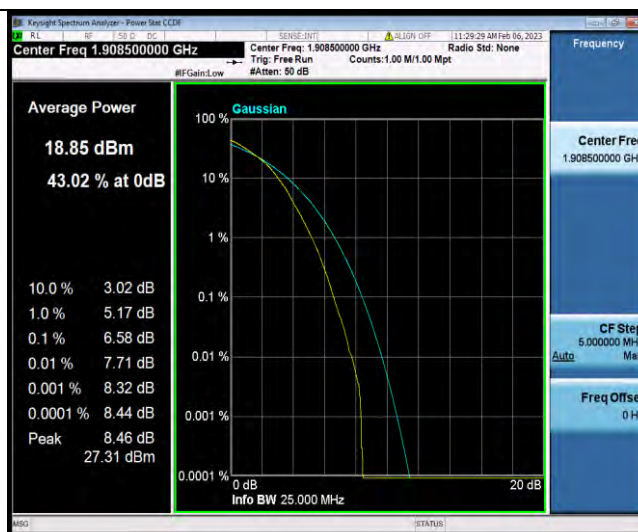


Band2-3MHz-64QAM-19185-15RB#0



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Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-18900-25RB#0



Band2-5MHz-QPSK-19175-25RB#0

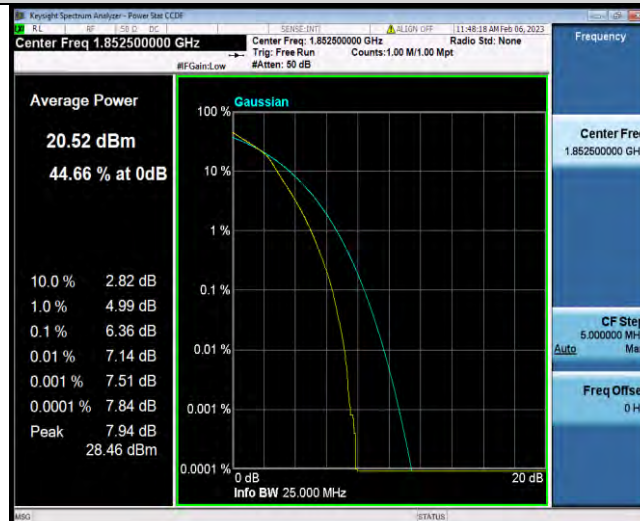


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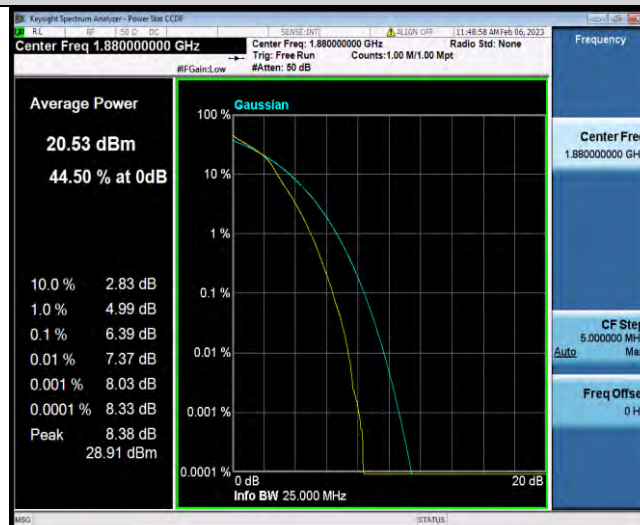
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Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-18900-25RB#0



Band2-5MHz-16QAM-19175-25RB#0



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Band2-5MHz-64QAM-18625-25RB#0



Band2-5MHz-64QAM-18900-25RB#0



Band2-5MHz-64QAM-19175-25RB#0

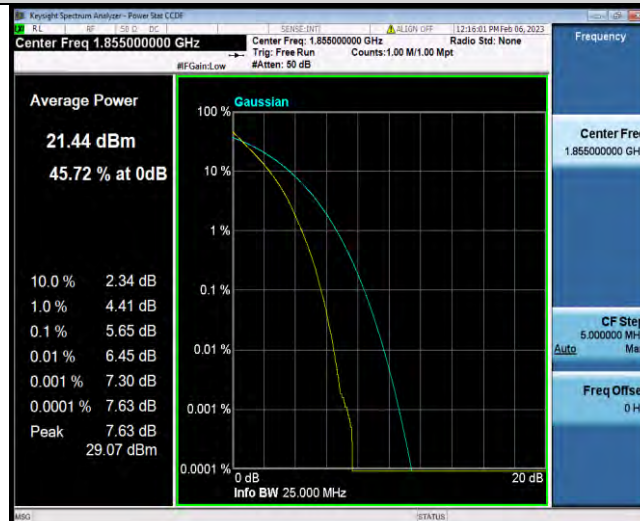


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Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-18900-50RB#0

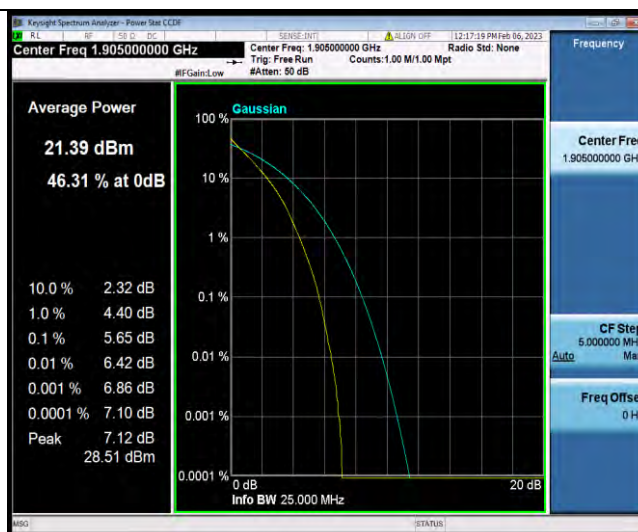


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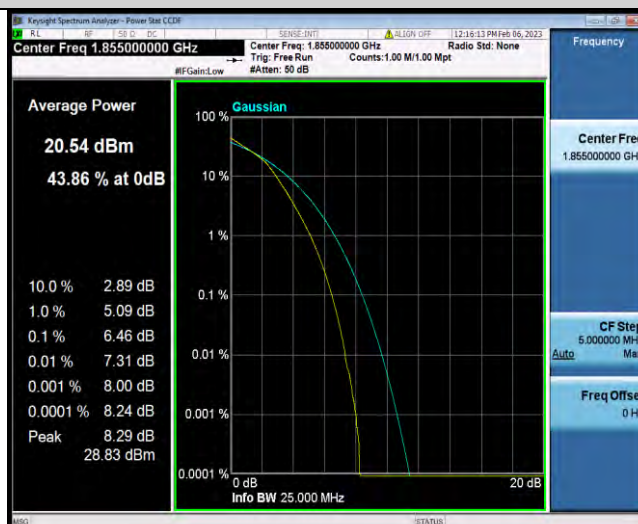


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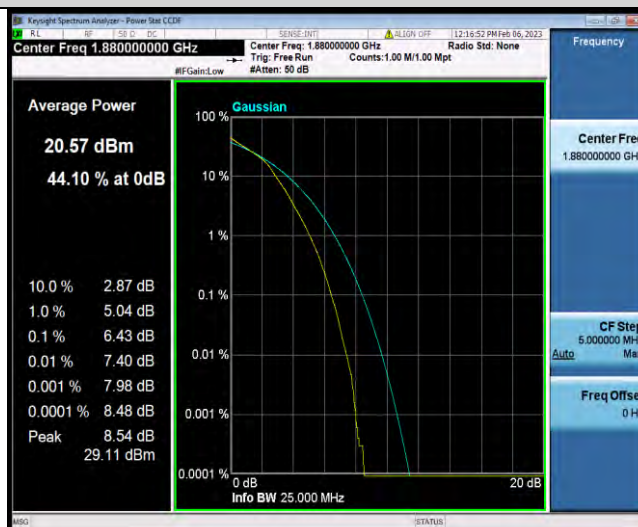
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Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-18900-50RB#0

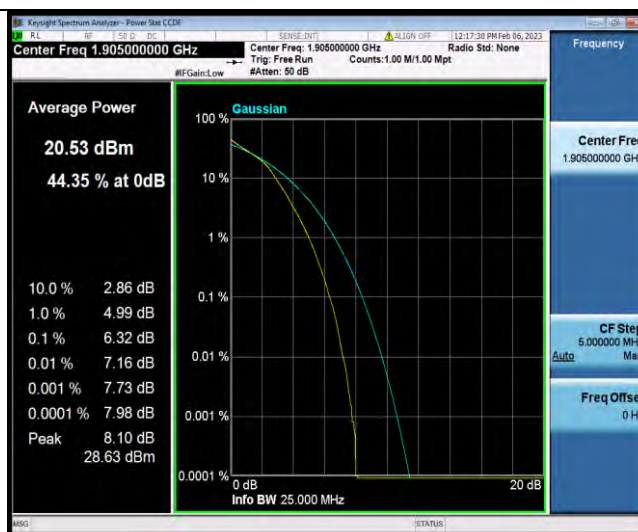


Band2-10MHz-16QAM-19150-50RB#0



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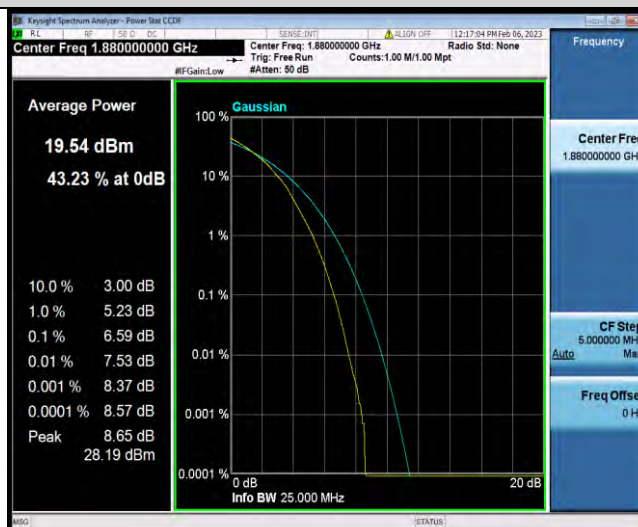
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Band2-10MHz-64QAM-18650-50RB#0



Band2-10MHz-64QAM-18900-50RB#0

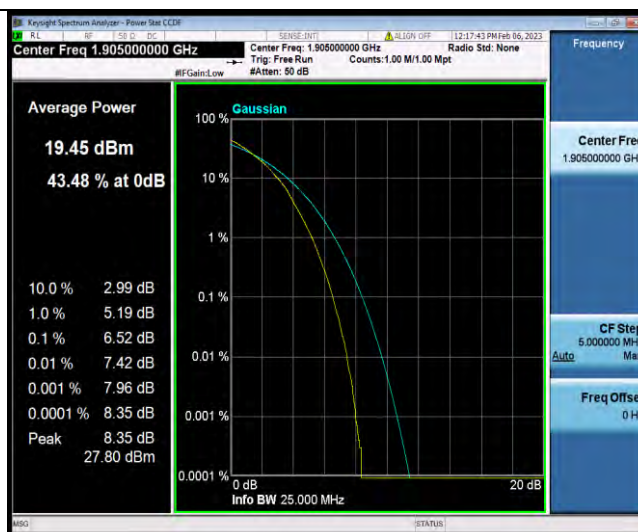


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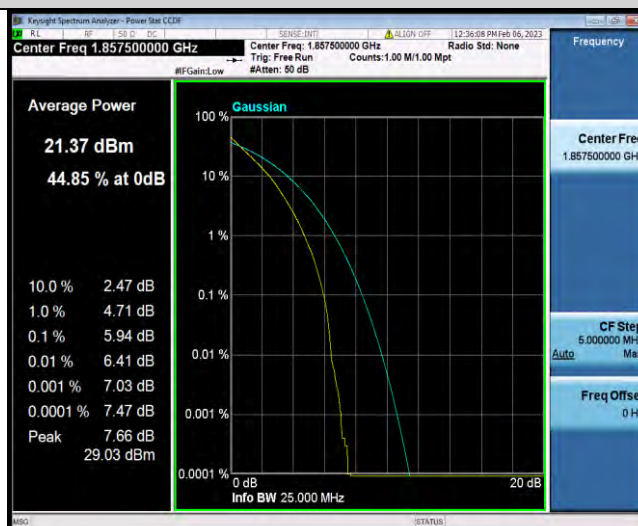


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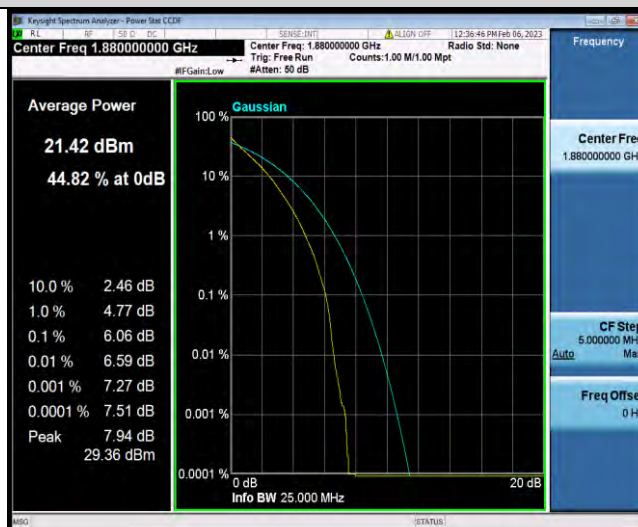
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Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-18900-75RB#0

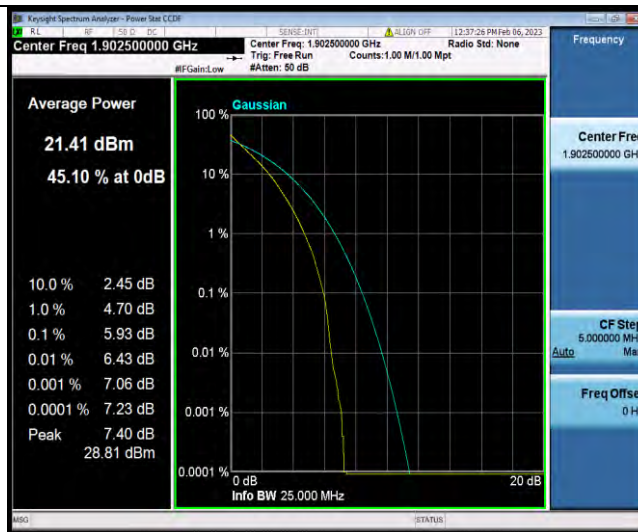


Band2-15MHz-QPSK-19125-75RB#0



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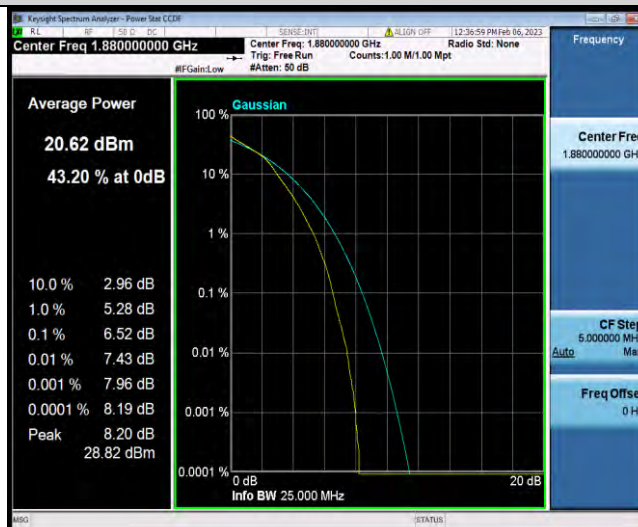
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Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-18900-75RB#0

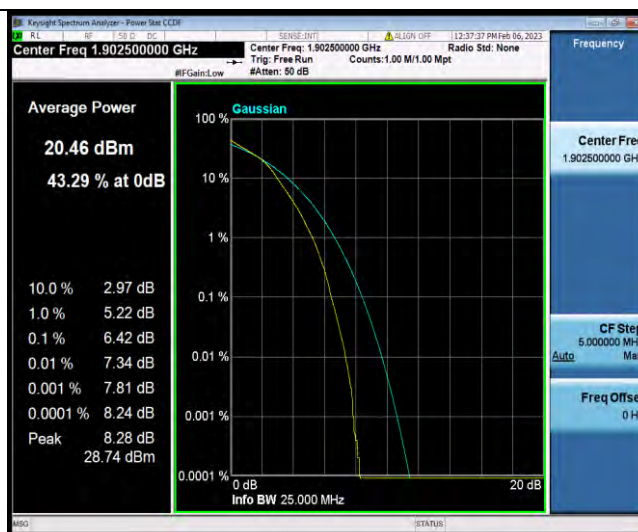


Band2-15MHz-16QAM-19125-75RB#0



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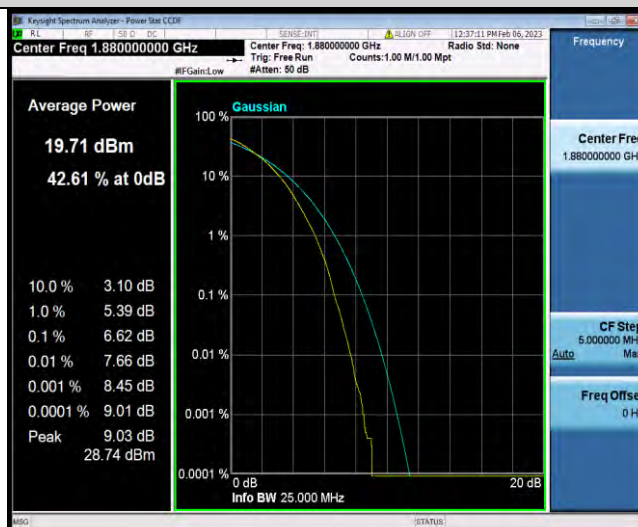
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Band2-15MHz-64QAM-18675-75RB#0



Band2-15MHz-64QAM-18900-75RB#0

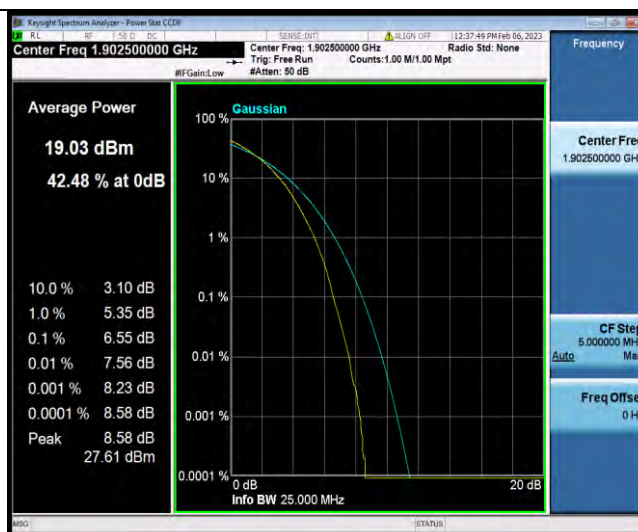


Band2-15MHz-64QAM-19125-75RB#0



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Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0

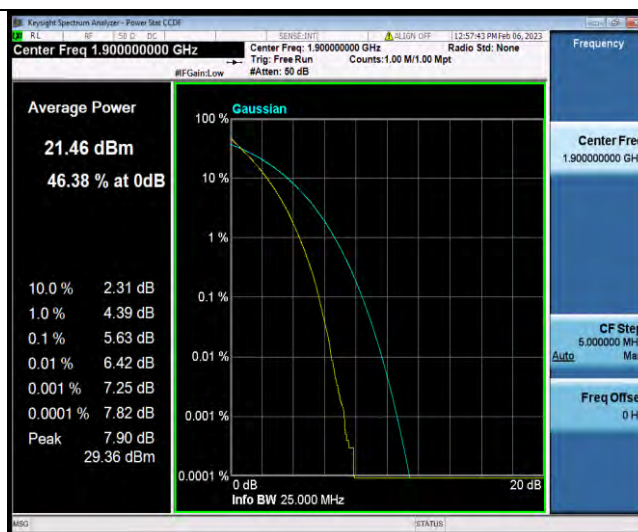


Band2-20MHz-QPSK-19100-100RB#0



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Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-18900-100RB#0

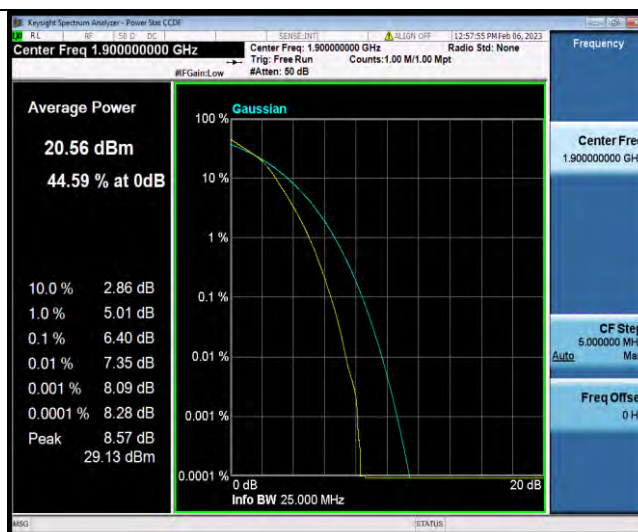


Band2-20MHz-16QAM-19100-100RB#0

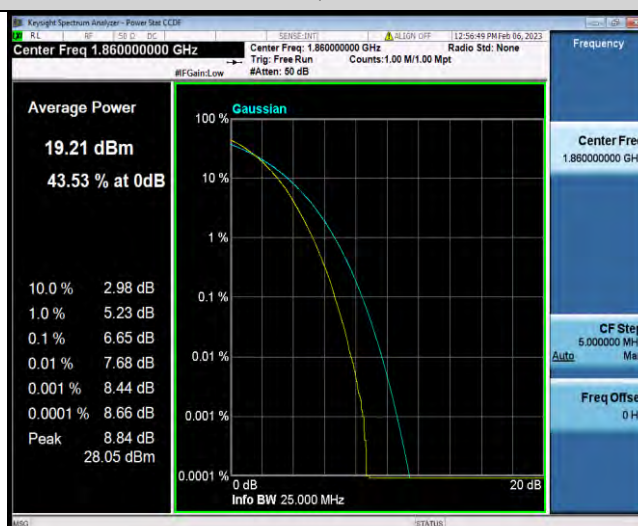


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Band2-20MHz-64QAM-18700-100RB#0



Band2-20MHz-64QAM-18900-100RB#0

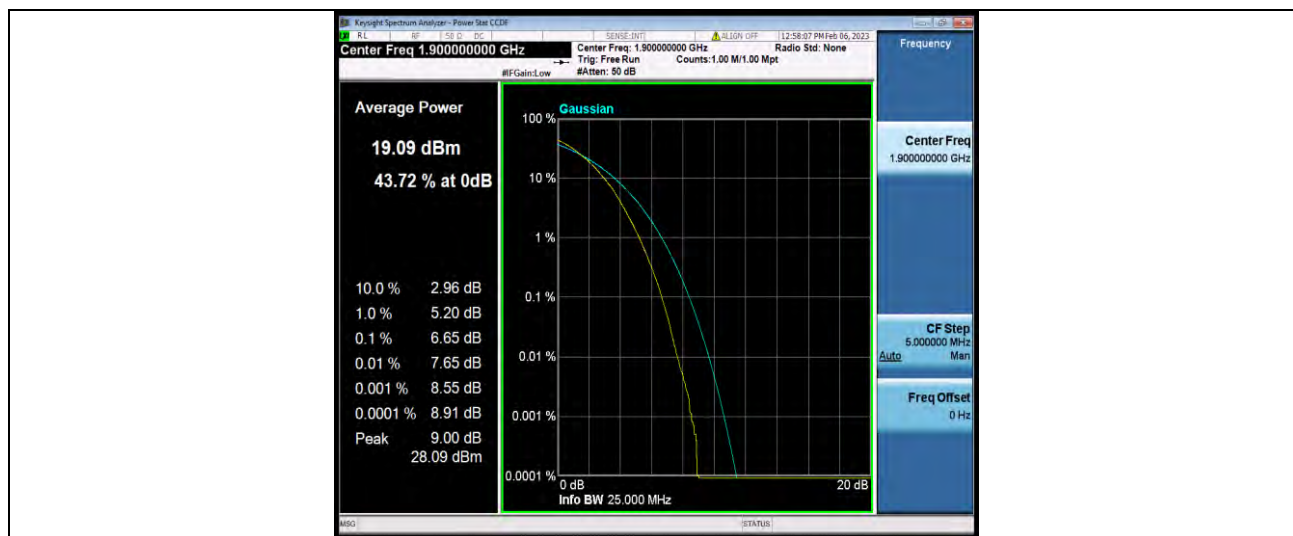


Band2-20MHz-64QAM-19100-100RB#0



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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

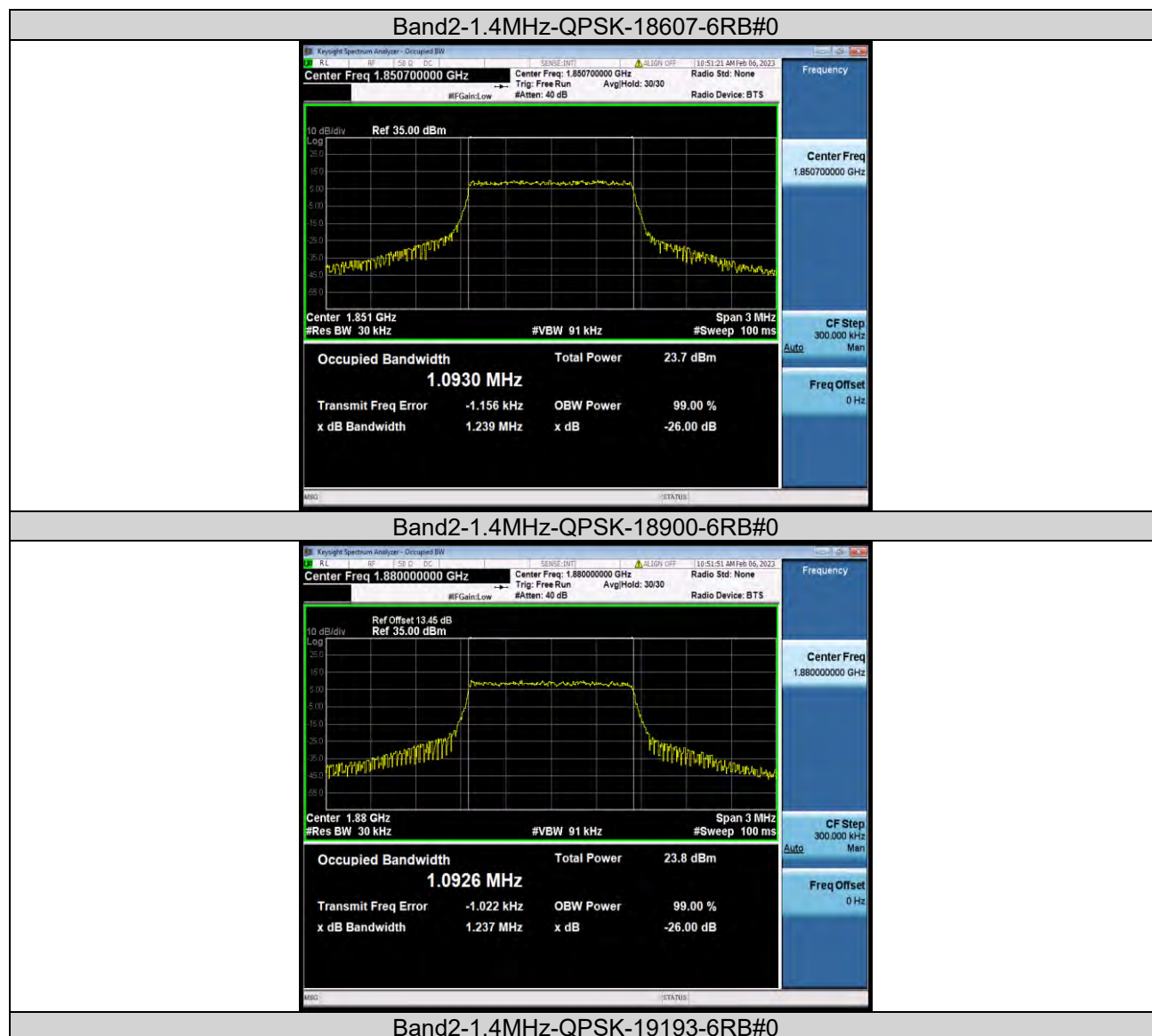
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0930	1.239	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0926	1.237	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0937	1.233	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0916	1.233	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0917	1.237	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0916	1.236	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.0885	1.236	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.0904	1.231	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.0898	1.232	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6985	2.957	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7017	2.983	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6989	2.972	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6994	2.990	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6930	2.977	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6936	2.972	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.6934	2.974	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.6995	2.974	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.7023	2.986	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4948	4.888	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4974	4.936	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4934	4.934	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5021	4.863	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5023	4.858	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5011	4.864	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.4979	4.895	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.4990	4.893	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.4984	4.884	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9888	9.607	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9971	9.609	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9955	9.626	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9831	9.553	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9815	9.583	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9773	9.608	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.9655	9.566	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.9783	9.624	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.9729	9.586	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.461	14.29	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.474	14.32	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.459	14.29	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.453	14.28	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.474	14.32	PASS

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Band2	15MHz	16QAM	19125	75RB#0	13.461	14.28	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.443	14.30	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.458	14.32	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.431	14.36	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.936	19.02	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.000	19.04	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.935	19.01	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.938	19.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.004	19.05	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.947	19.00	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.926	18.99	PASS
Band2	20MHz	64QAM	18900	100RB#0	18.011	19.12	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.947	19.05	PASS

Test Graphs





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Test Report No.: W7L-P23010024RF05



Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-18900-6RB#0



Band2-1.4MHz-16QAM-19193-6RB#0

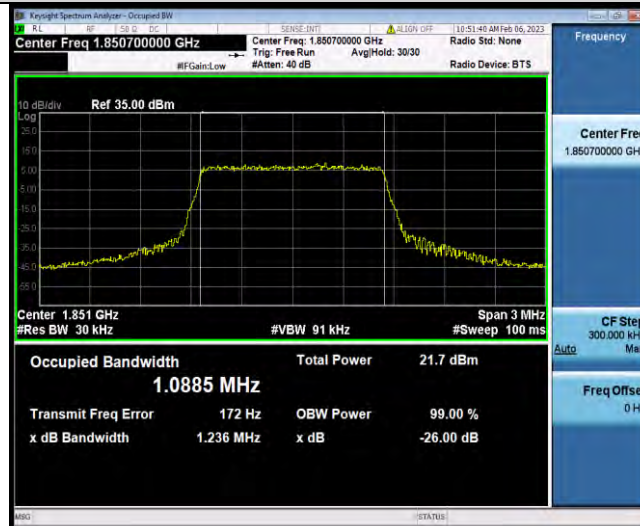


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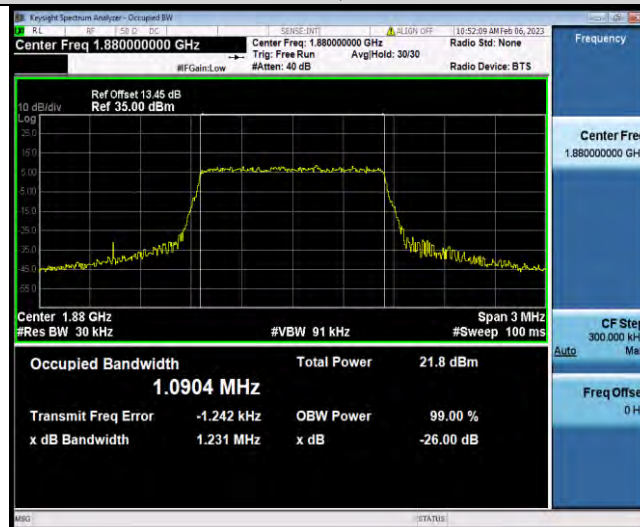
Test Report No.: W7L-P23010024RF05



Band2-1.4MHz-64QAM-18607-6RB#0



Band2-1.4MHz-64QAM-18900-6RB#0



Band2-1.4MHz-64QAM-19193-6RB#0

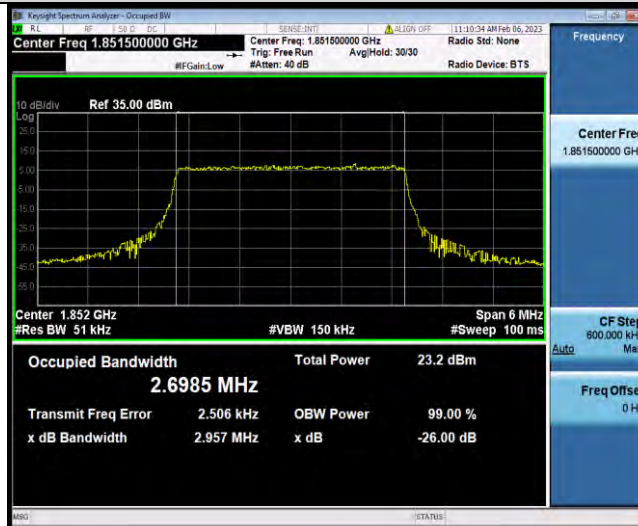


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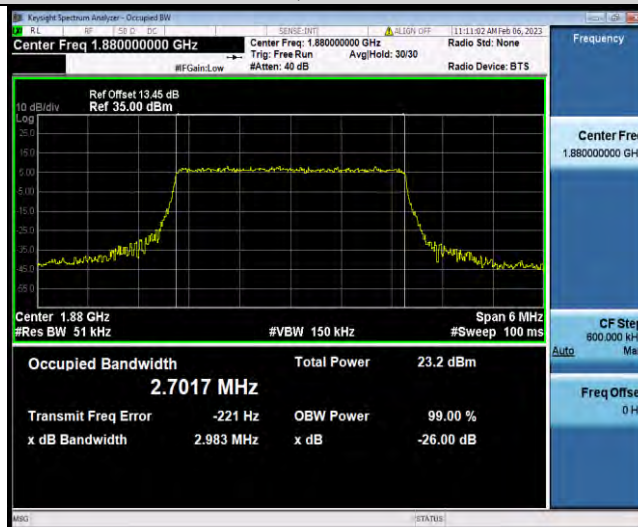
Test Report No.: W7L-P23010024RF05



Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-18900-15RB#0

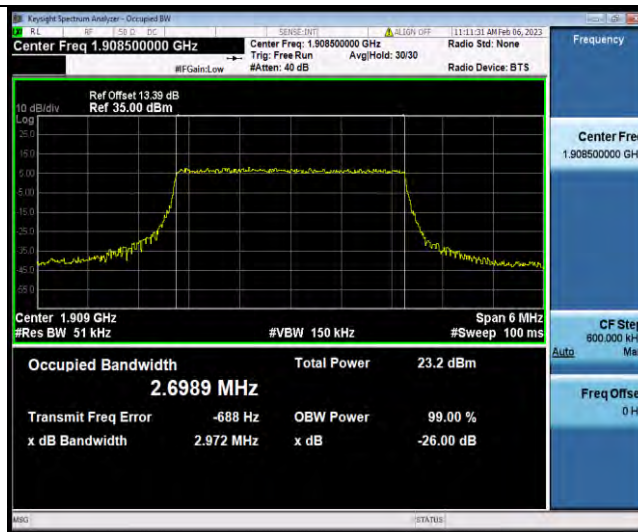


Band2-3MHz-QPSK-19185-15RB#0

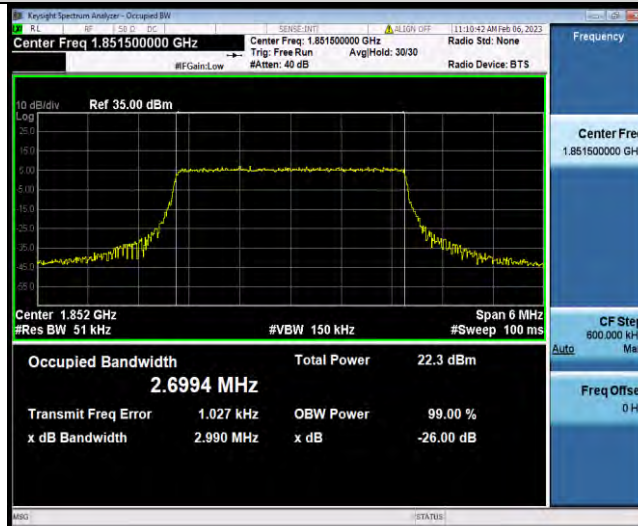


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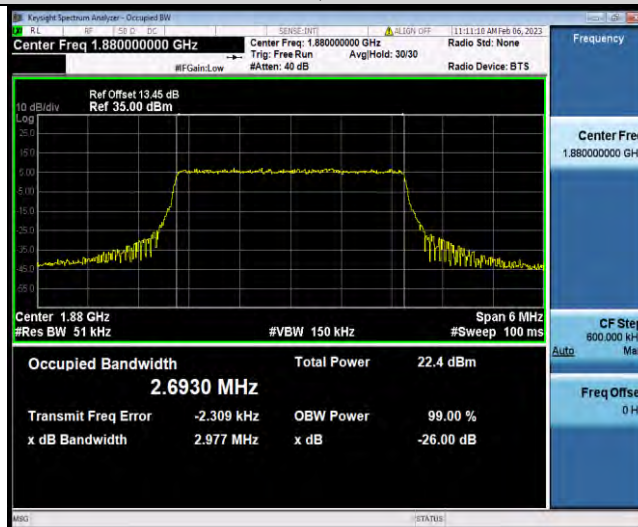
Test Report No.: W7L-P23010024RF05



Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-18900-15RB#0

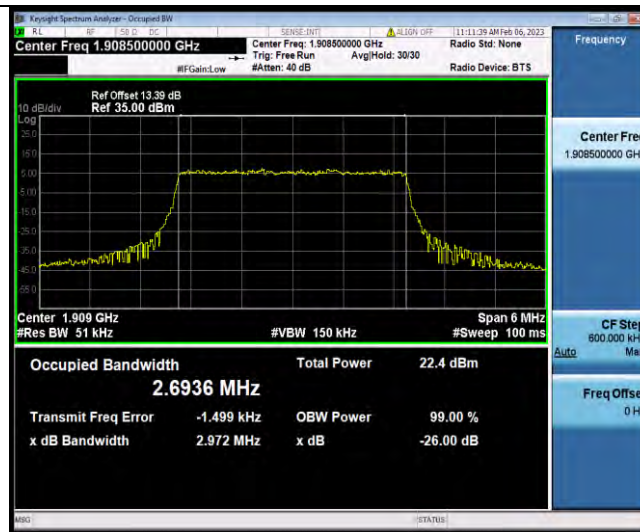


Band2-3MHz-16QAM-19185-15RB#0

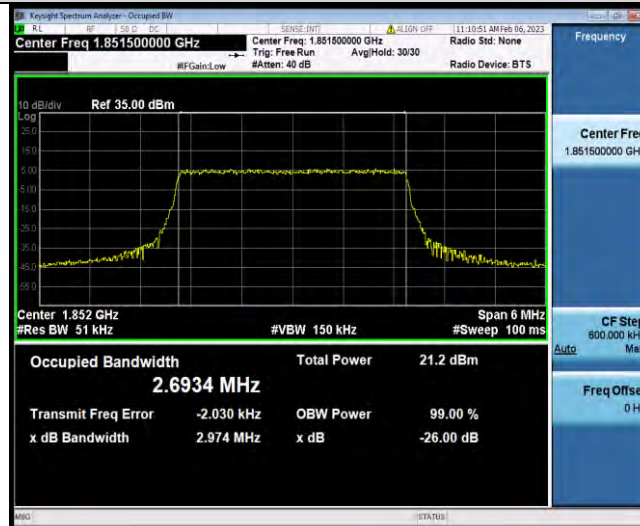


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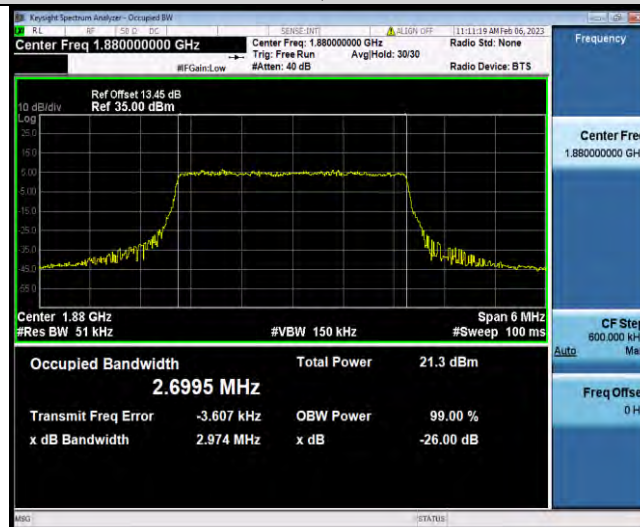
Test Report No.: W7L-P23010024RF05



Band2-3MHz-64QAM-18615-15RB#0



Band2-3MHz-64QAM-18900-15RB#0

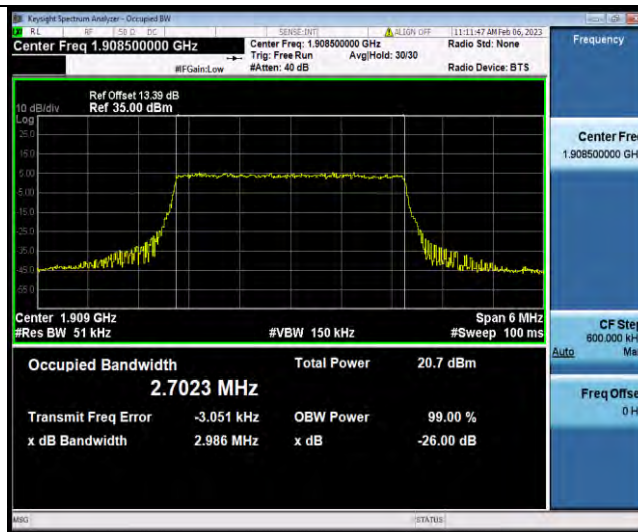


Band2-3MHz-64QAM-19185-15RB#0

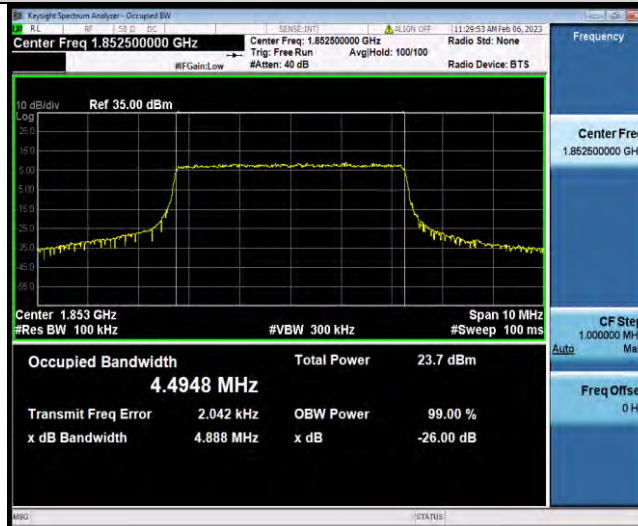


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Test Report No.: W7L-P23010024RF05



Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-18900-25RB#0



Band2-5MHz-QPSK-19175-25RB#0



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Test Report No.: W7L-P23010024RF05



Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-18900-25RB#0



Band2-5MHz-16QAM-19175-25RB#0

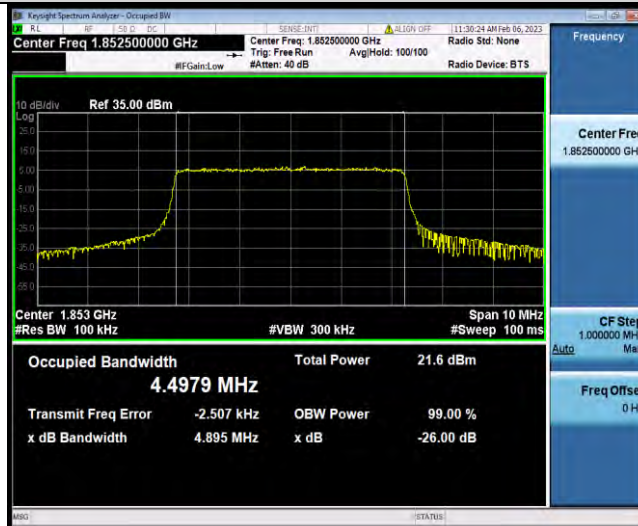


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Test Report No.: W7L-P23010024RF05



Band2-5MHz-64QAM-18625-25RB#0



Band2-5MHz-64QAM-18900-25RB#0



Band2-5MHz-64QAM-19175-25RB#0



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Test Report No.: W7L-P23010024RF05



Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-18900-50RB#0



Band2-10MHz-QPSK-19150-50RB#0



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Test Report No.: W7L-P23010024RF05



Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-18900-50RB#0

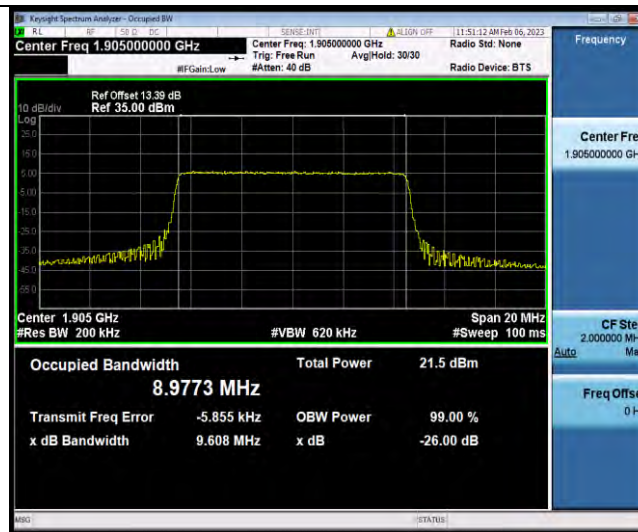


Band2-10MHz-16QAM-19150-50RB#0

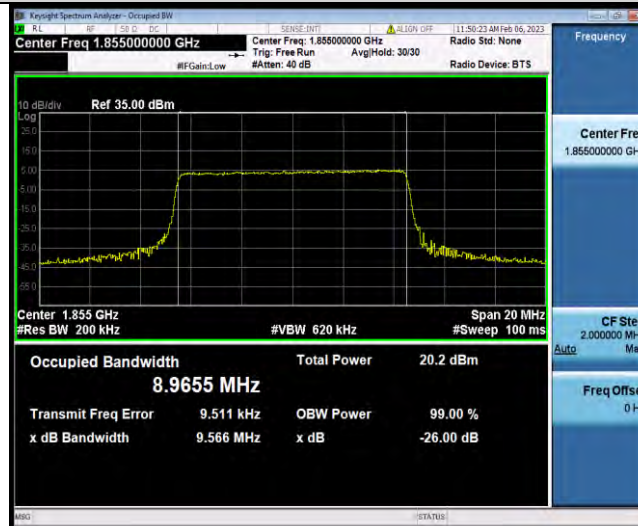


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Test Report No.: W7L-P23010024RF05



Band2-10MHz-64QAM-18650-50RB#0



Band2-10MHz-64QAM-18900-50RB#0

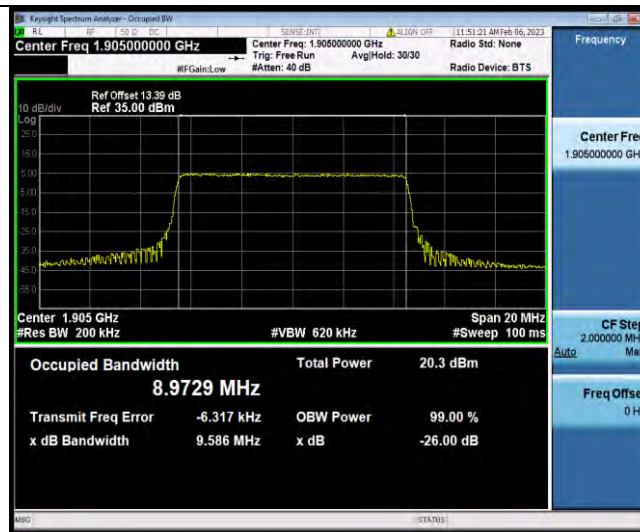


Band2-10MHz-64QAM-19150-50RB#0



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Test Report No.: W7L-P23010024RF05



Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-18900-75RB#0



Band2-15MHz-QPSK-19125-75RB#0

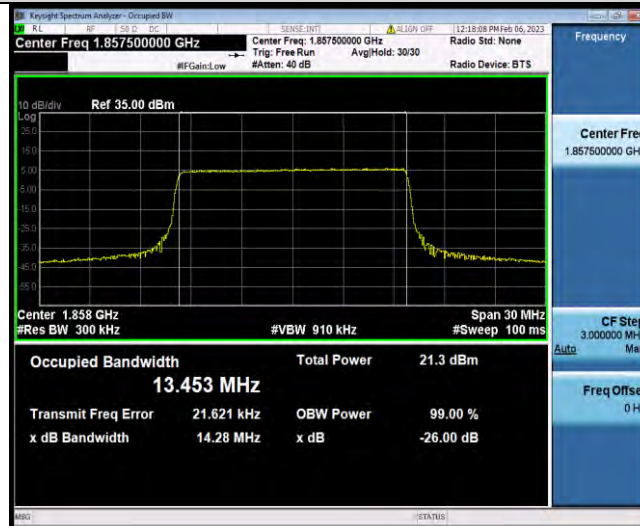


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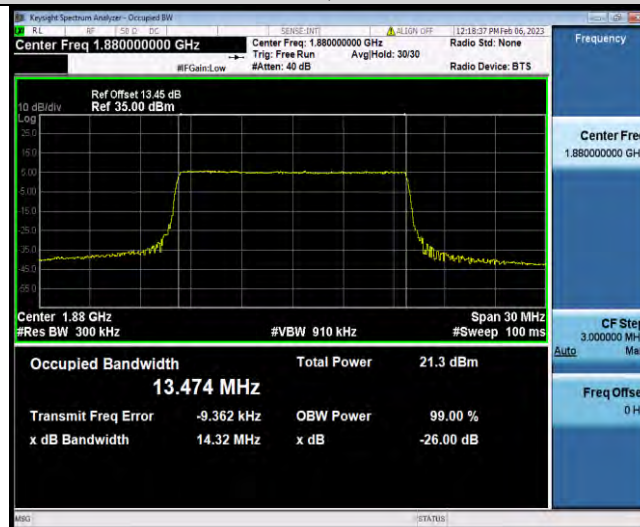
Test Report No.: W7L-P23010024RF05



Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-18900-75RB#0



Band2-15MHz-16QAM-19125-75RB#0