

Appendix for Band 12

Product Name: 4G Smart Router

Model No: GL-MiFiC4-EXT

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.55	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.46	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.53	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.55	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.54	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.62	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.54	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.64	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.55	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.60	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.65	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.73	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.63	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.72	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.71	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.13	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.79	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.67	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.66	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.75	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.58	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.84	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.26	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.27	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.47	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.49	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.73	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.56	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.53	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.56	PASS

Band12	1.4MHz	16QAM	23095	3RB#0	22.62	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.62	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.87	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.76	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.36	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.94	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.56	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.64	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.64	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.76	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.53	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.40	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.60	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.57	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.56	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.63	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.67	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.91	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.81	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.76	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.78	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.69	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.68	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.69	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.70	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.99	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.10	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.79	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.80	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.80	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.35	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.69	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.69	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.51	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.58	PASS

Band12	3MHz	16QAM	23025	8RB#7	21.82	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.61	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.95	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.67	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.58	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.87	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.69	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.68	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.70	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.74	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.90	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.02	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.72	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.72	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.82	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.74	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.58	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.58	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.55	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.63	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.61	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.62	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.68	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.72	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.67	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.53	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.73	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.82	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.53	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.72	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.68	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.63	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.87	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.64	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.83	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.74	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.73	PASS

Band12	5MHz	16QAM	23035	1RB#0	22.65	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.59	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.46	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.64	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.63	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.71	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.79	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.61	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.10	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.48	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.70	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.98	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.79	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.80	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.65	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.54	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.98	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.66	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.68	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.87	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.34	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.67	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.51	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.61	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.59	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.76	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.76	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.43	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.54	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.51	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.71	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.71	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.63	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.75	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.88	PASS

Band12	10MHz	QPSK	23130	1RB#49	23.94	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.69	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.70	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.75	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.62	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.43	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.87	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.44	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.58	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.57	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.83	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.65	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.32	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.95	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.63	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.83	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.74	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.90	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.65	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.74	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.76	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.82	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.91	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.82	PASS
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Band12	10MHz	16QAM	23130	50RB#0	21.74	PASS

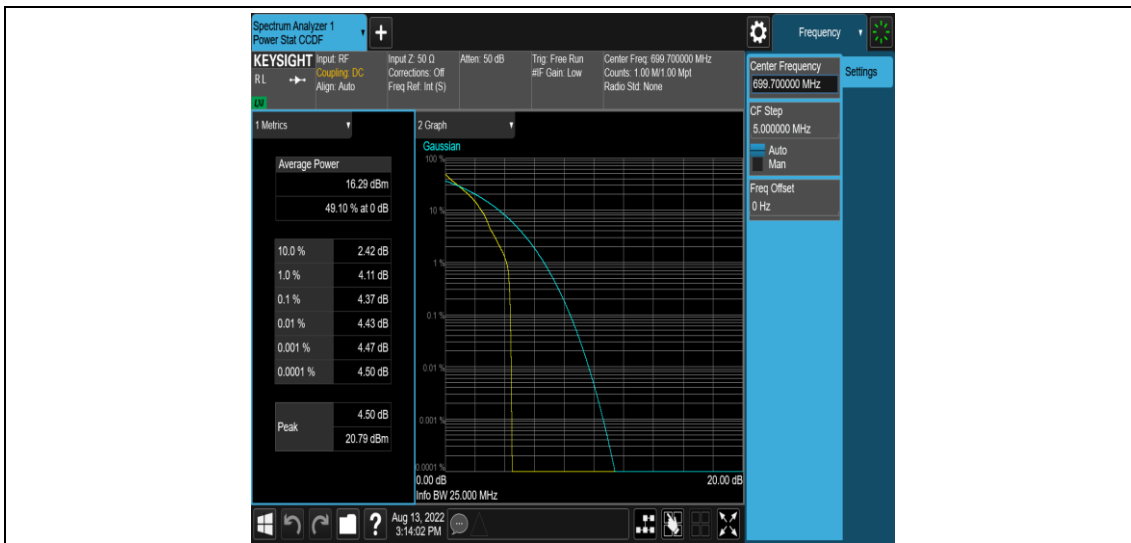
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

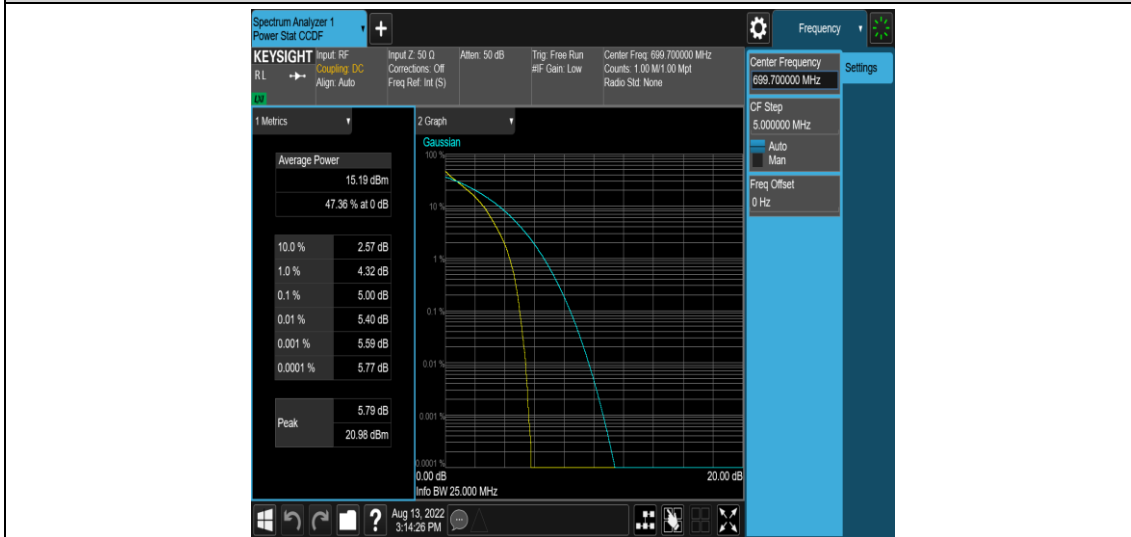
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.37	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.00	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.44	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.08	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.18	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.80	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.40	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.84	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.48	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.91	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.24	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.67	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.38	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.11	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.41	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.11	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.40	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.05	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.29	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.93	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.40	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.93	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.38	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.89	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.35	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.13	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.42	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.06	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.40	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.10	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.33	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.92	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.30	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.82	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.34	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.91	13	PASS

Band12	10MHz	QPSK	23060	1RB#0	4.35	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.01	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.42	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.02	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.40	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.21	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.27	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.85	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.44	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.88	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.31	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.98	13	PASS

Test Graphs

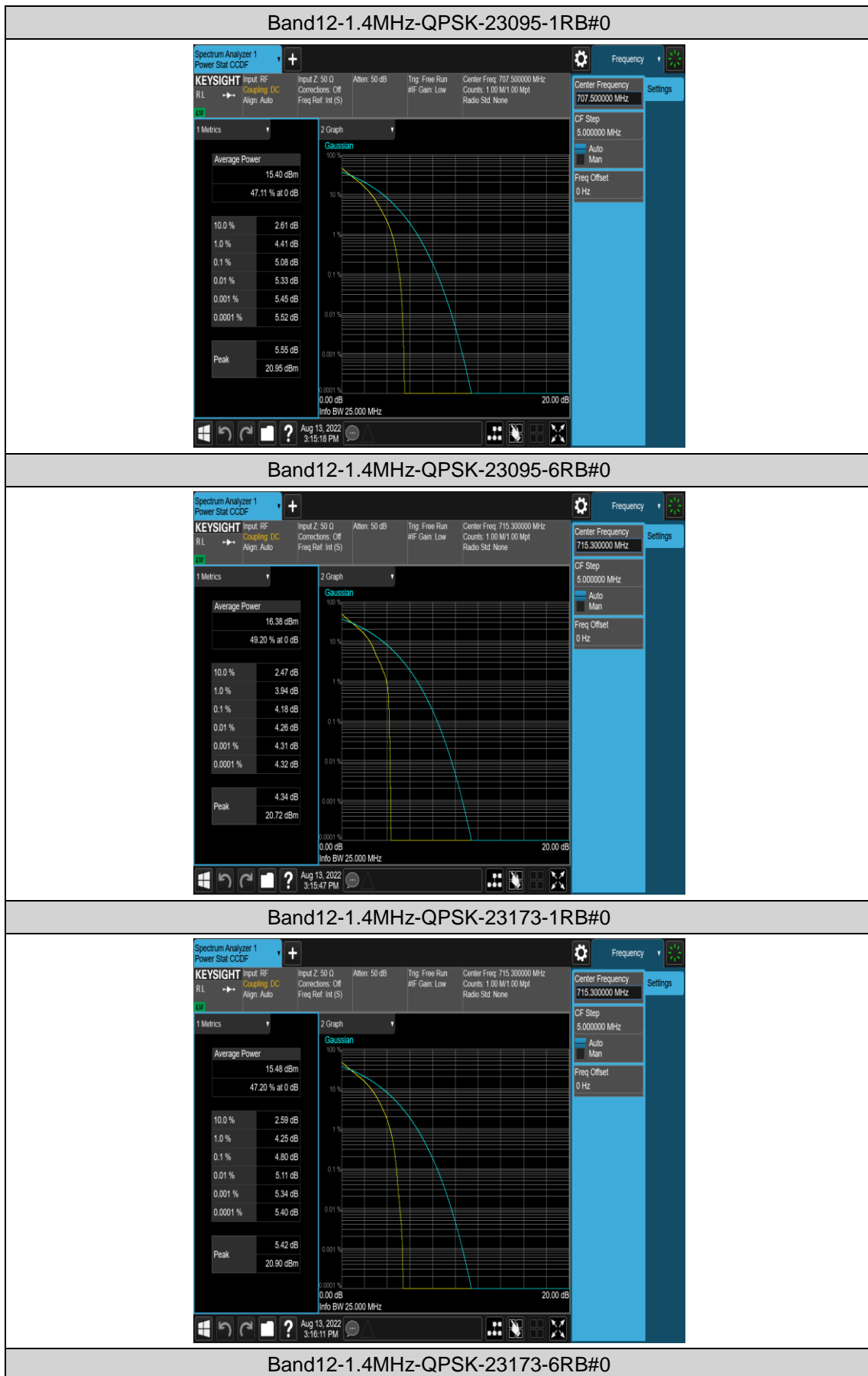


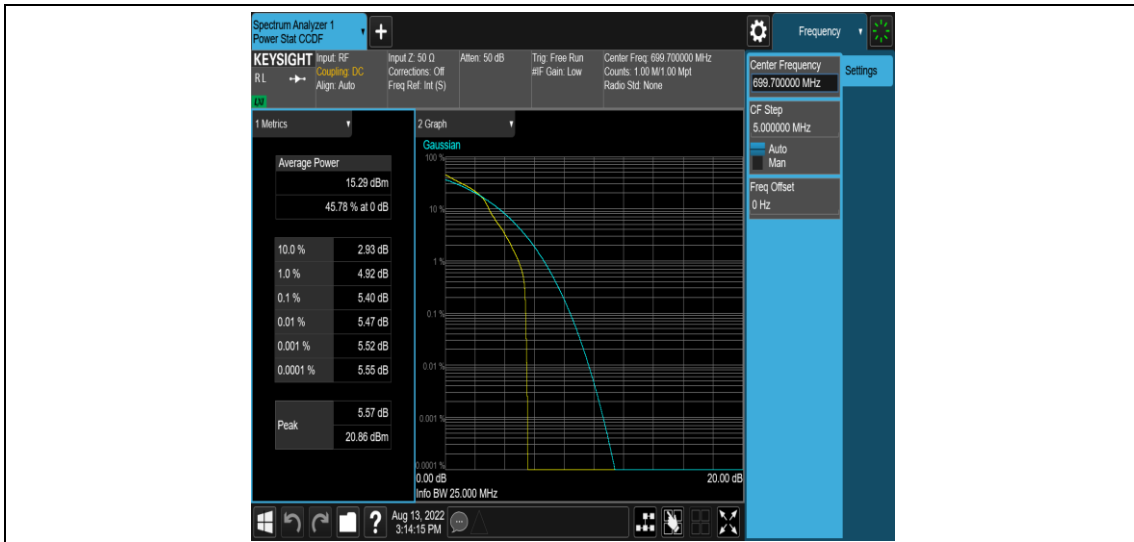
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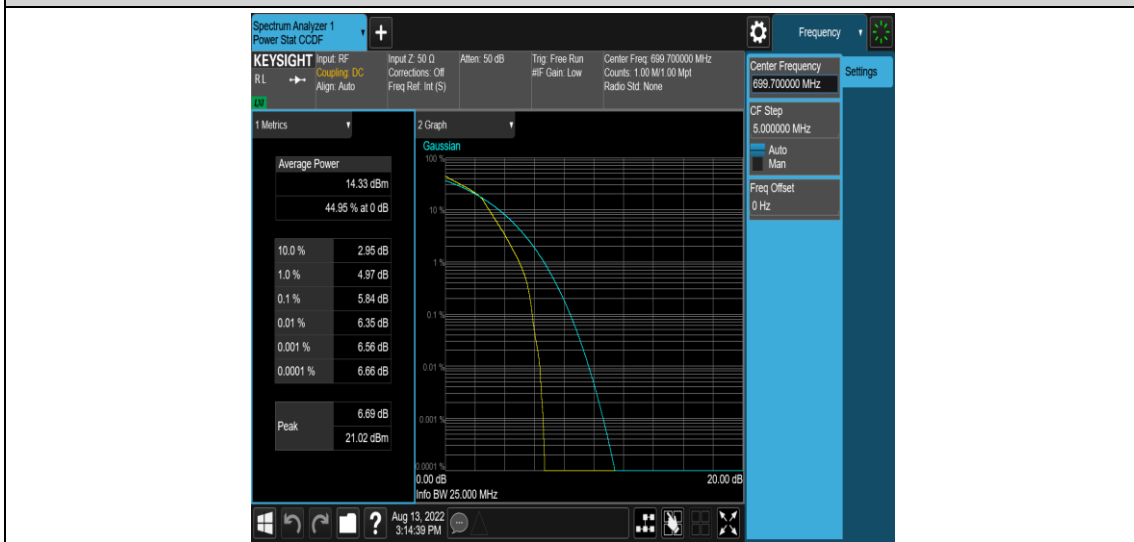
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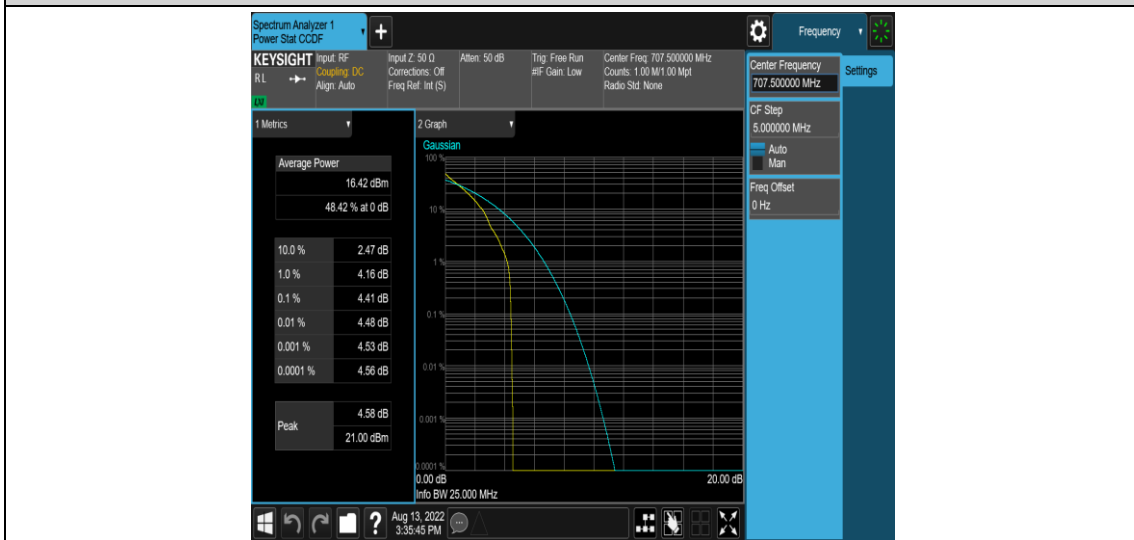
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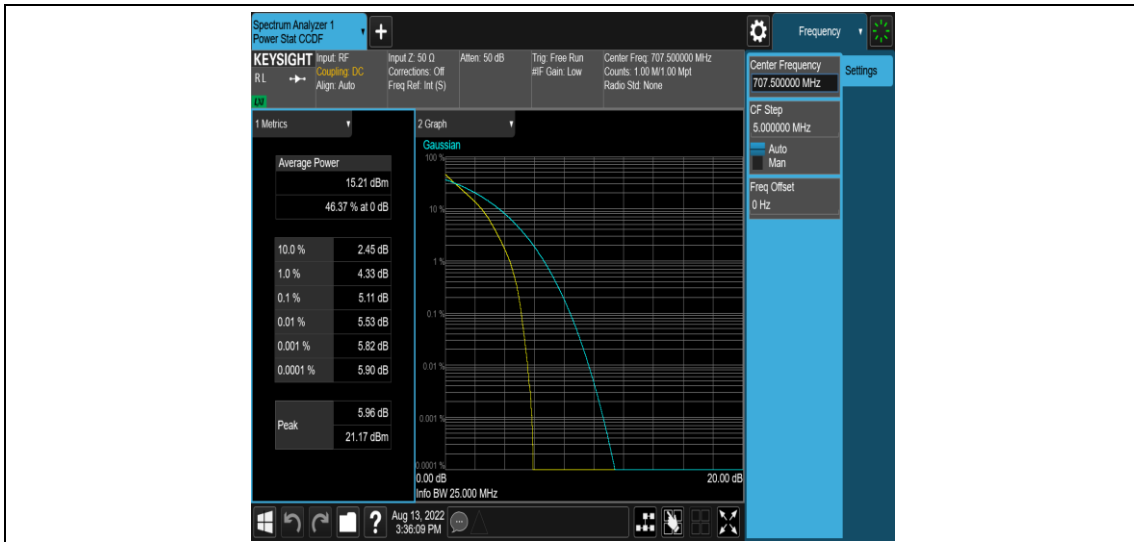
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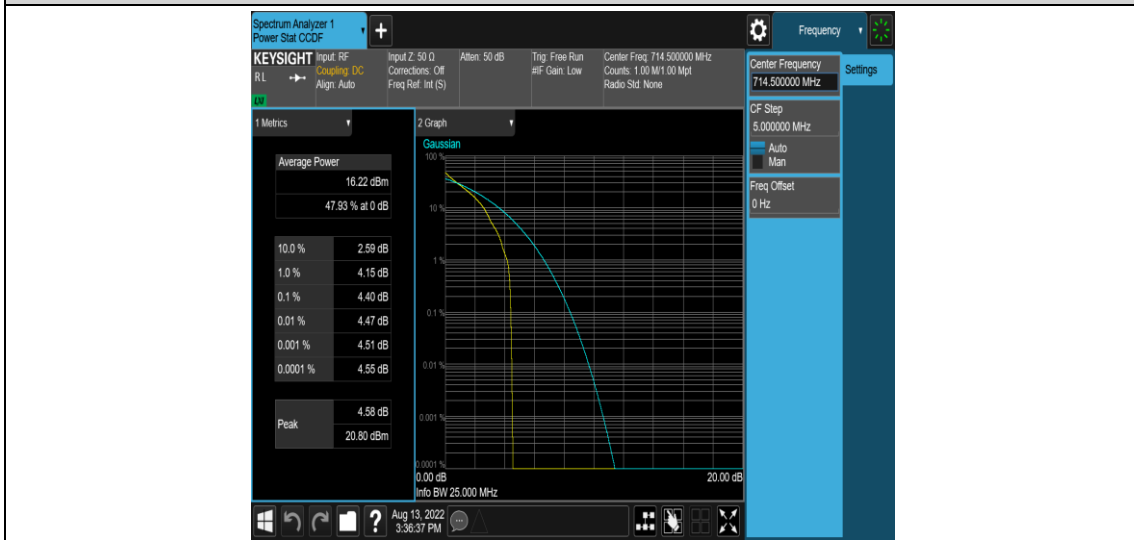
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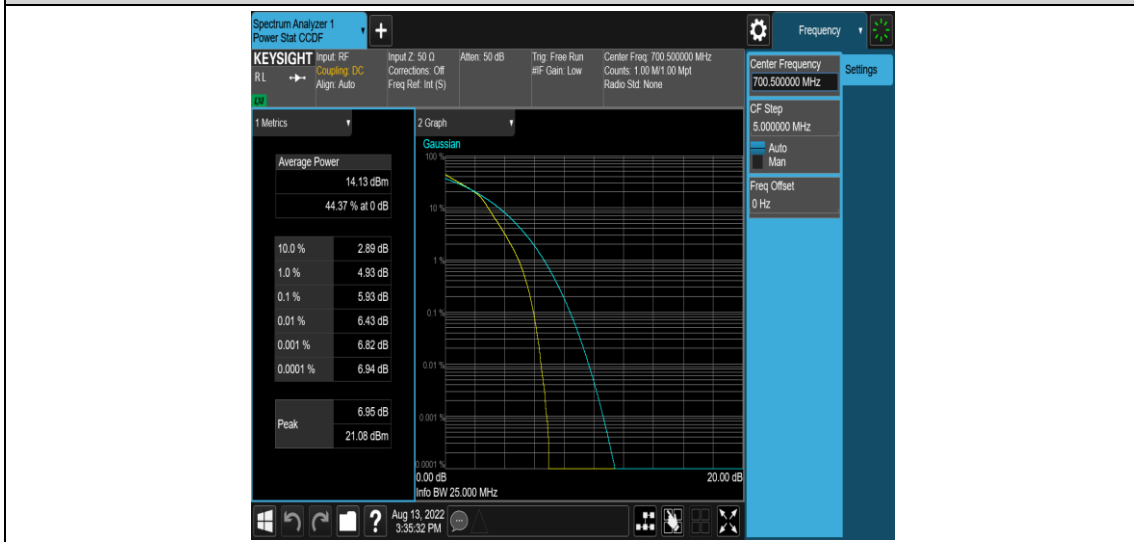
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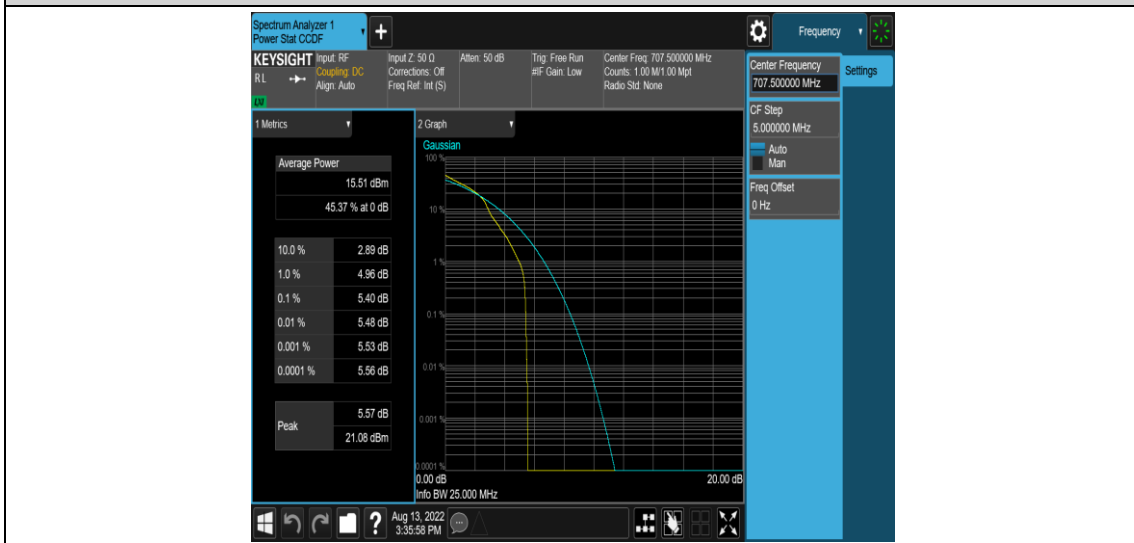
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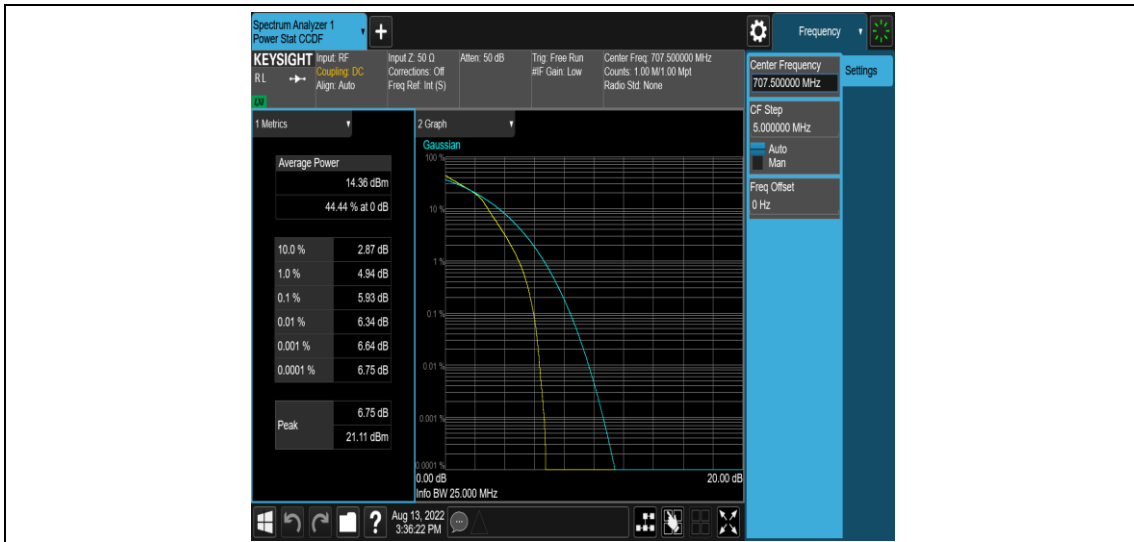
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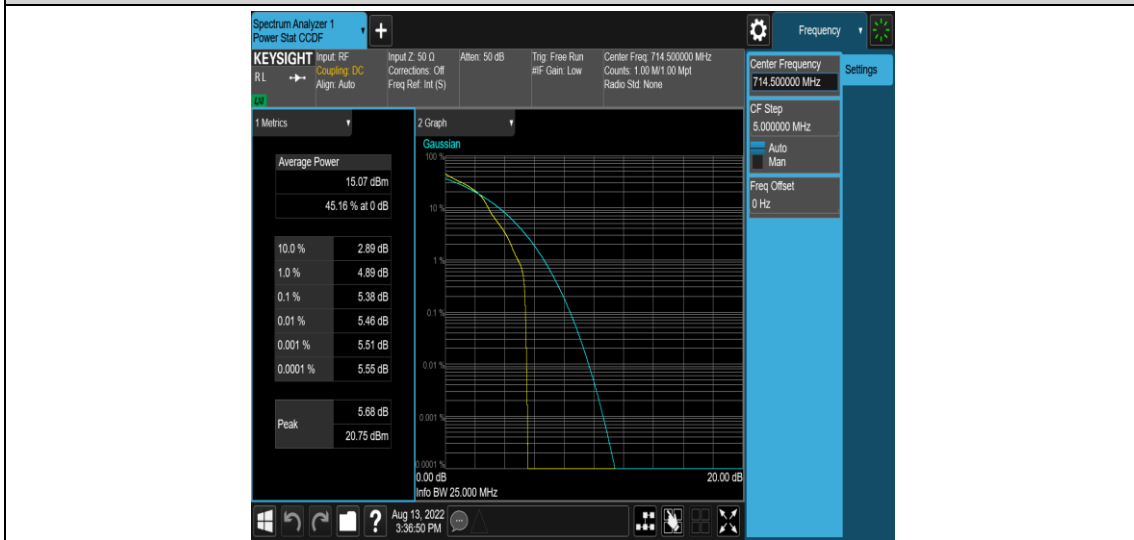
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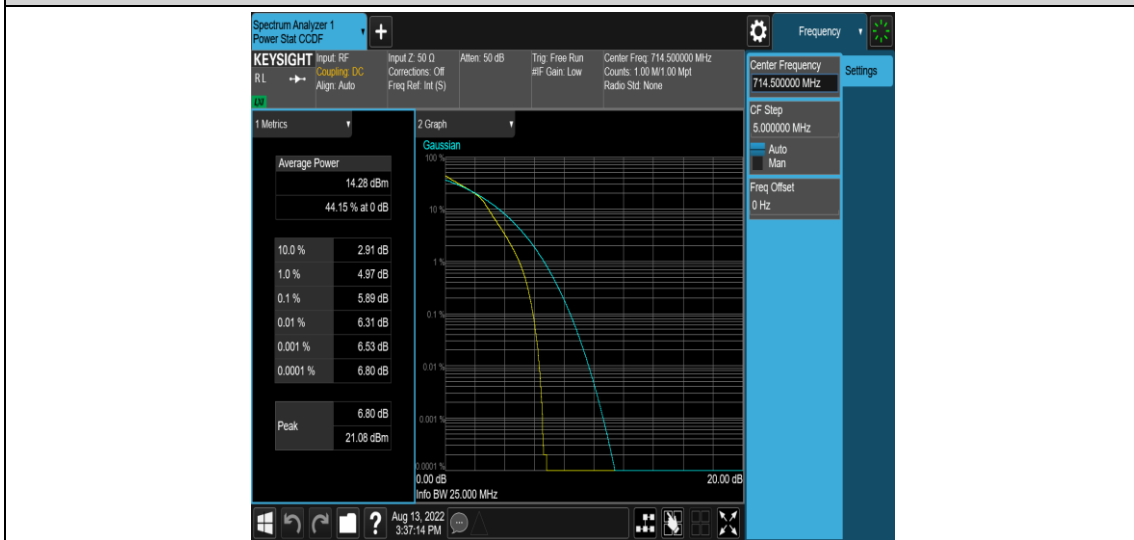
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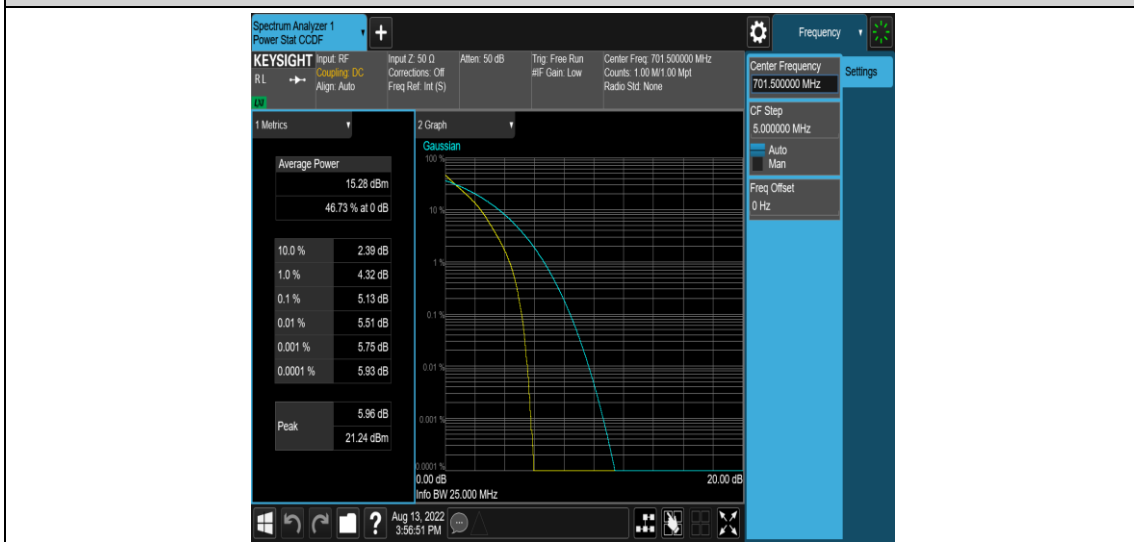
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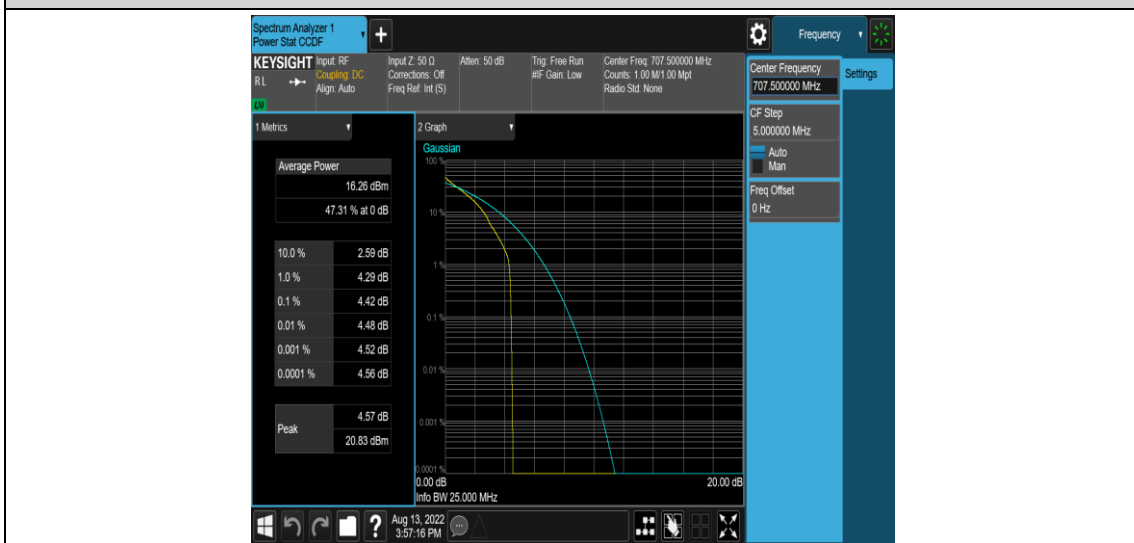
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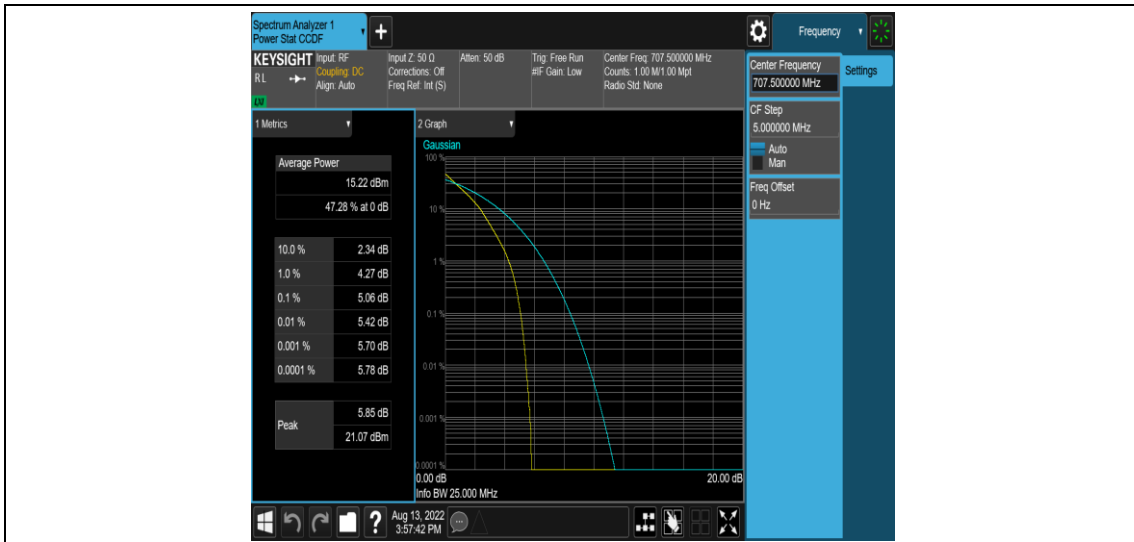
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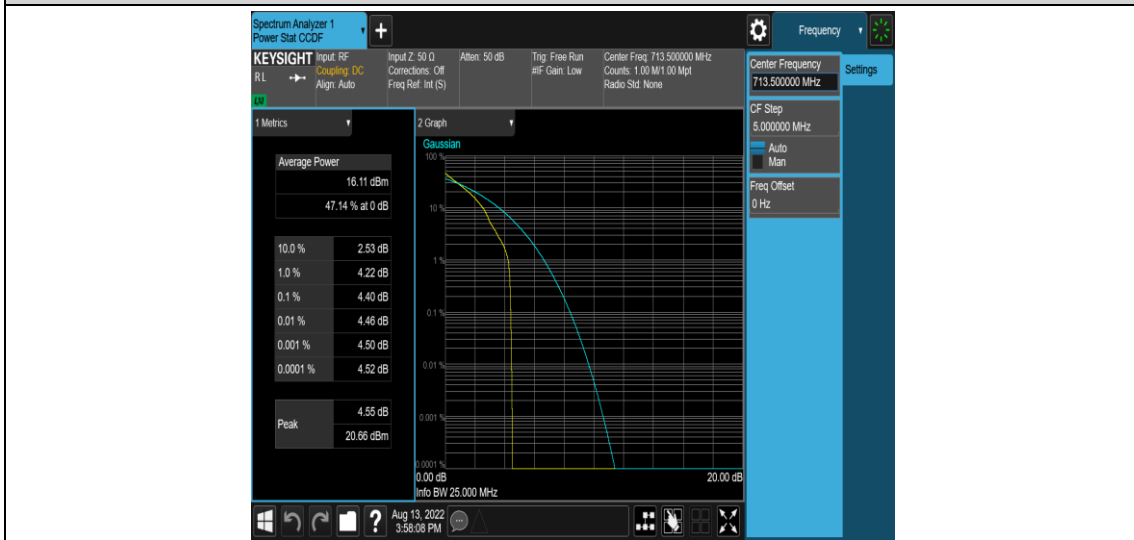
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Band12-5MHz-QPSK-23095-25RB#0



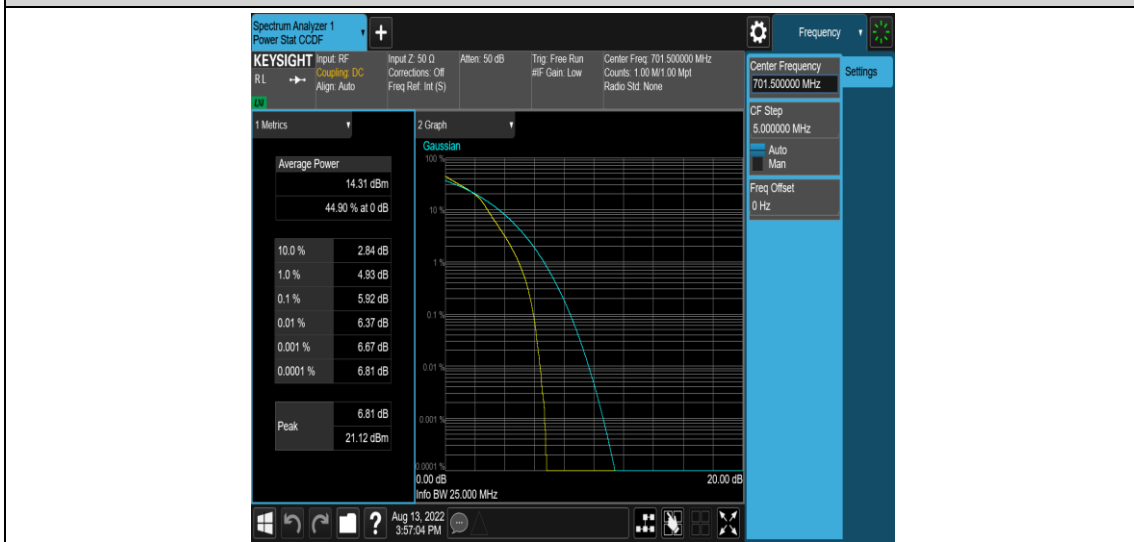
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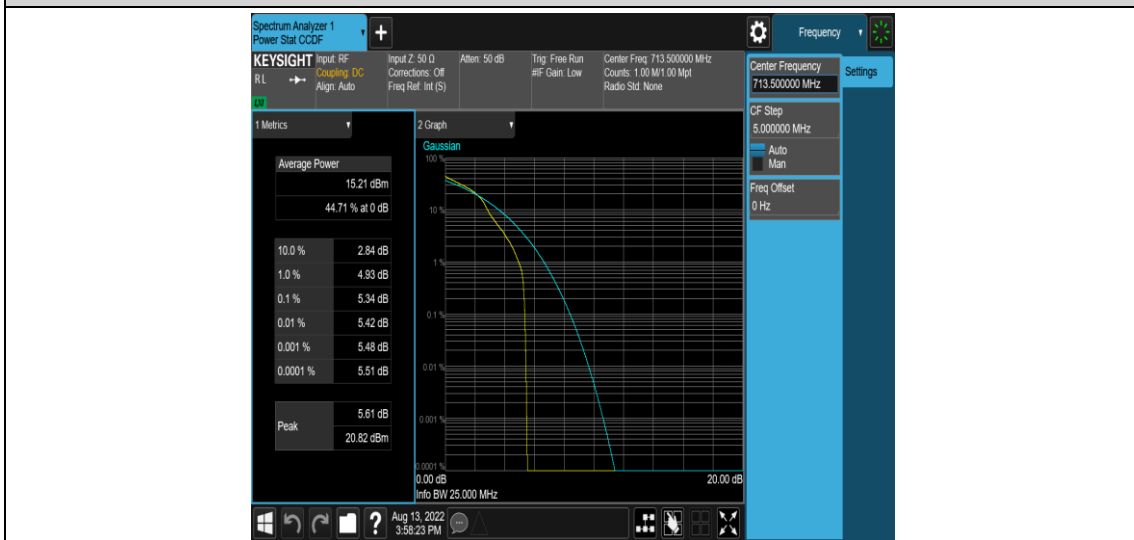
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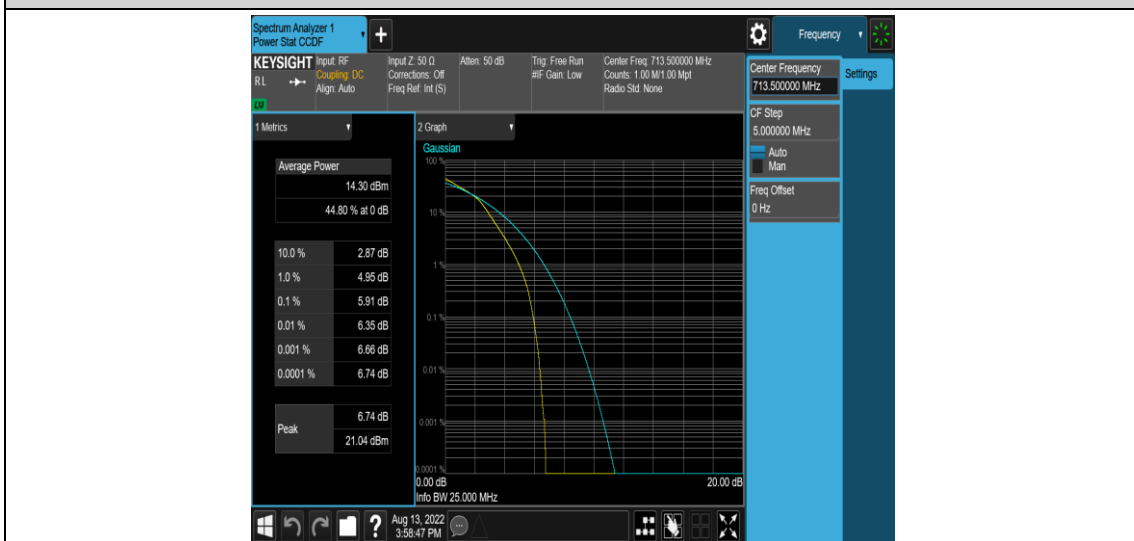
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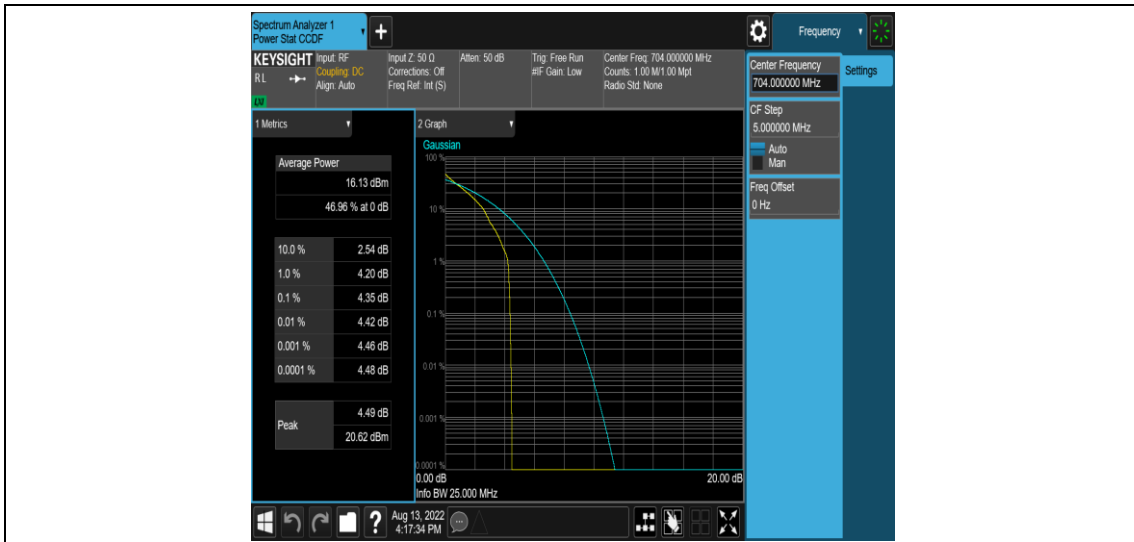
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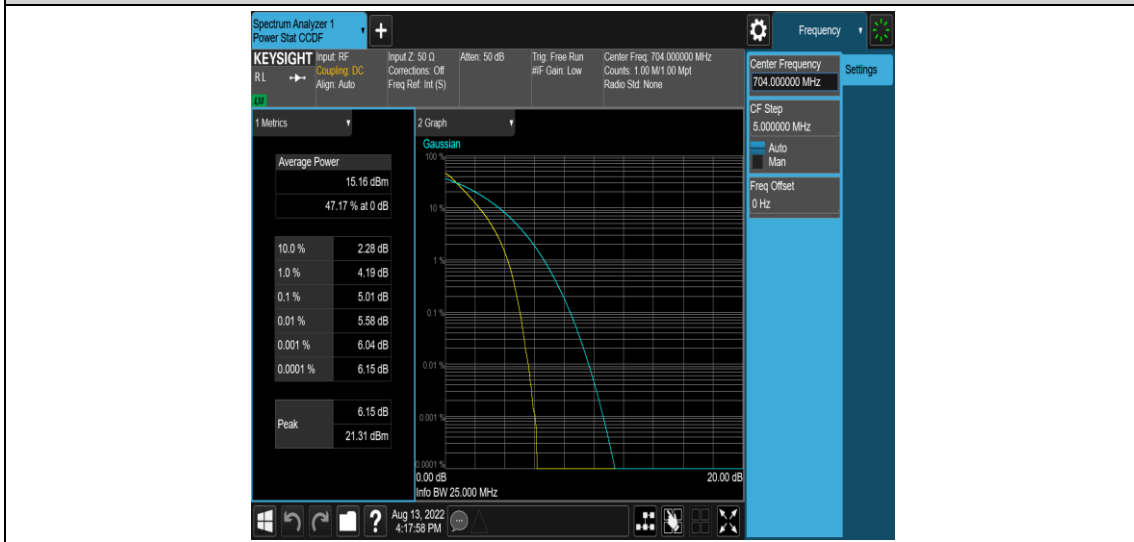
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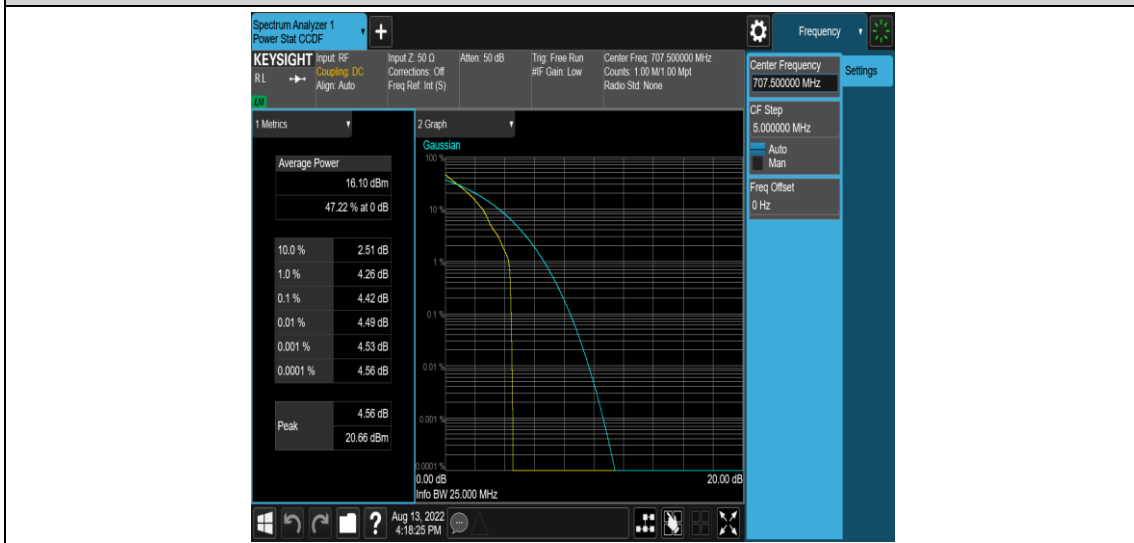
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Band12-10MHz-QPSK-23060-1RB#0



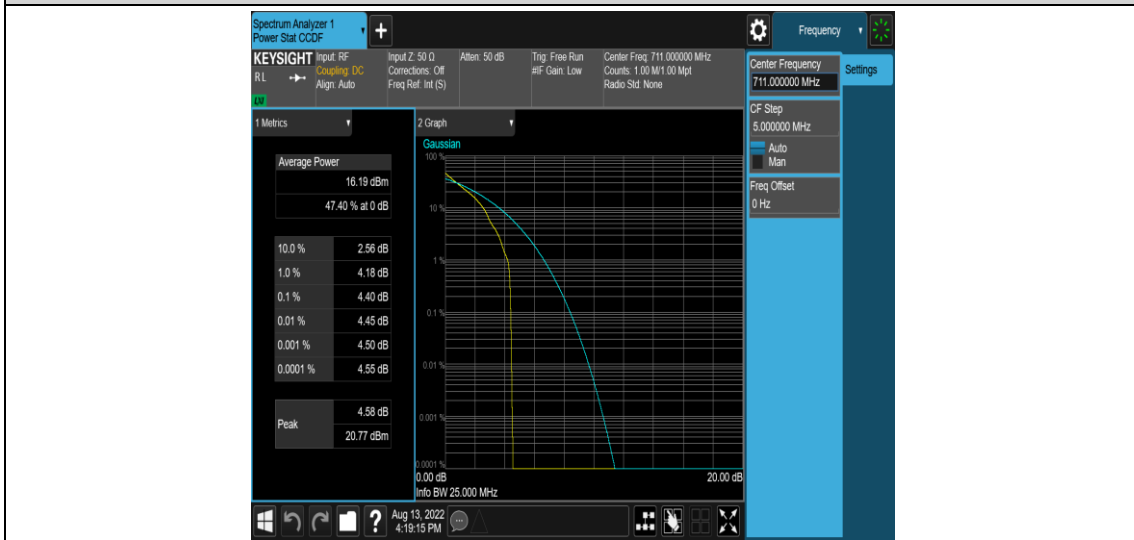
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Band12-10MHz-QPSK-23095-1RB#0



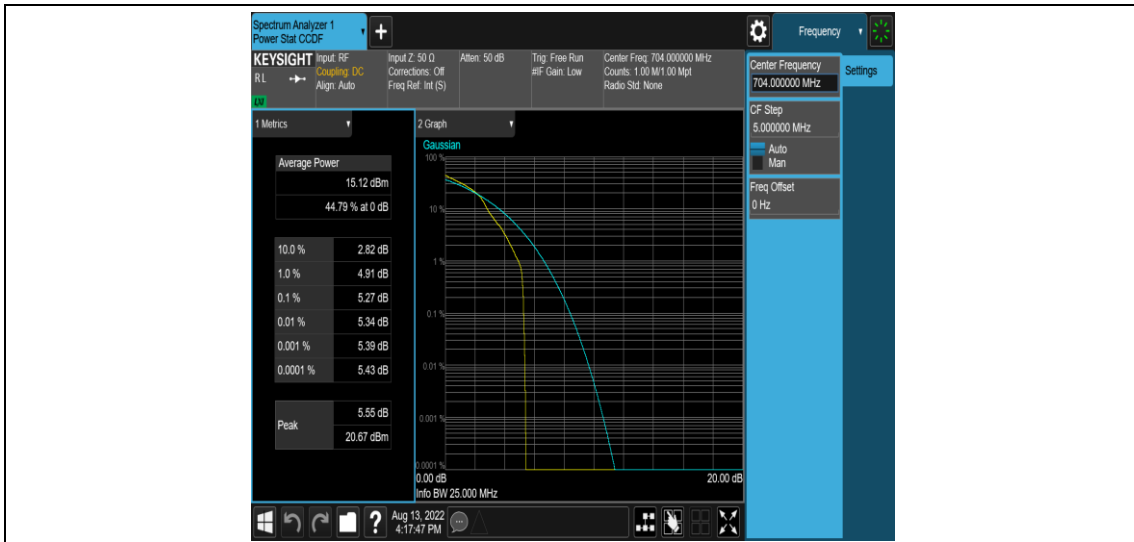
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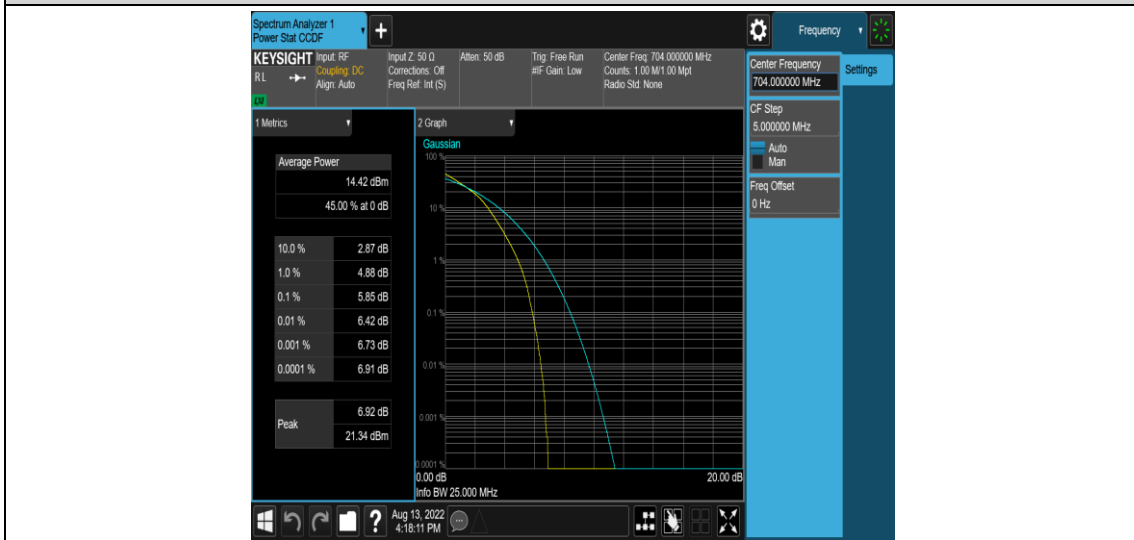
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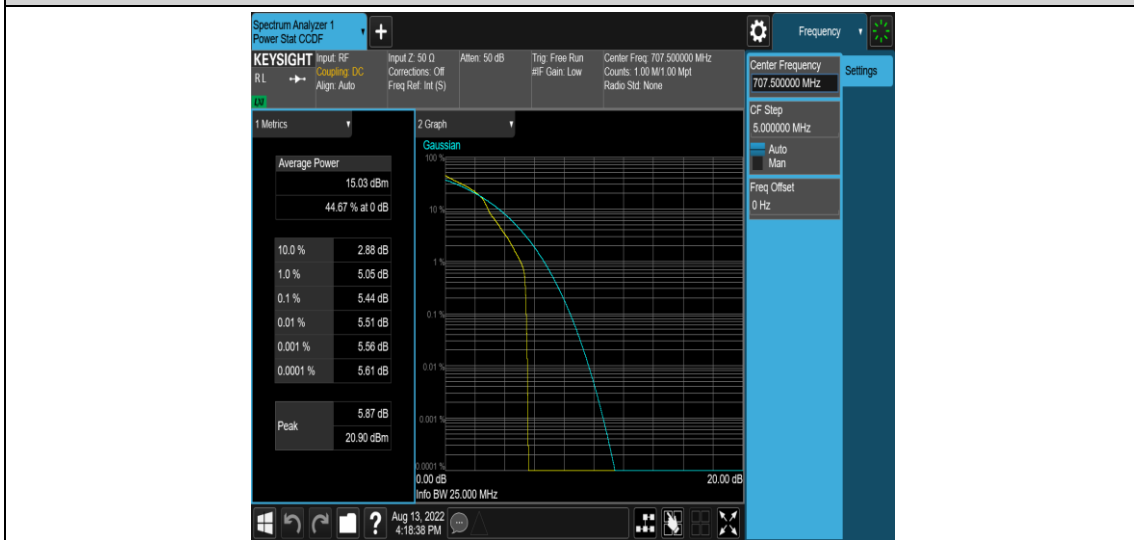
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Band12-10MHz-16QAM-23060-1RB#0



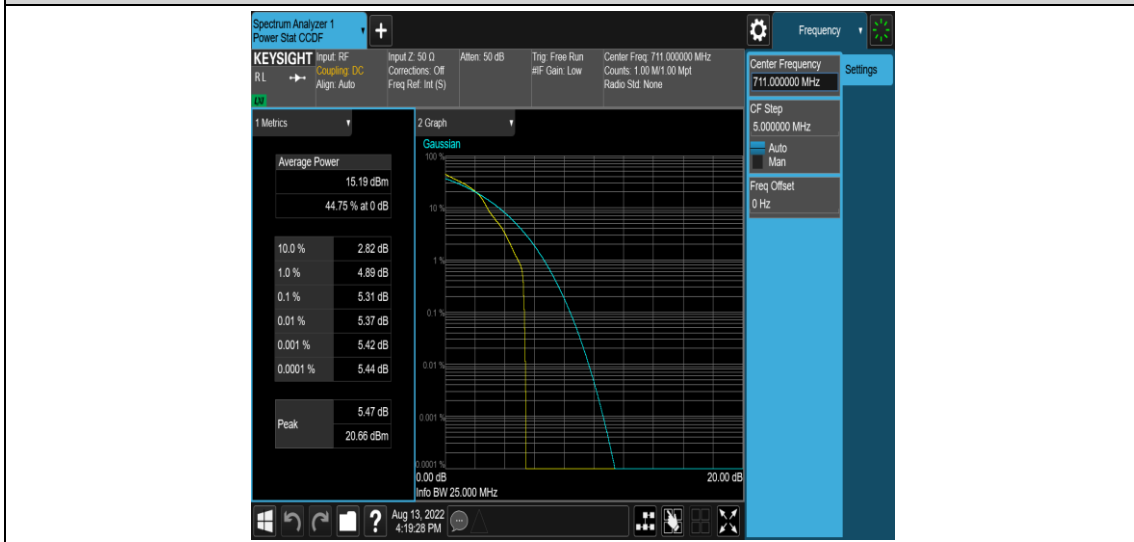
Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-1RB#0



Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-1RB#0



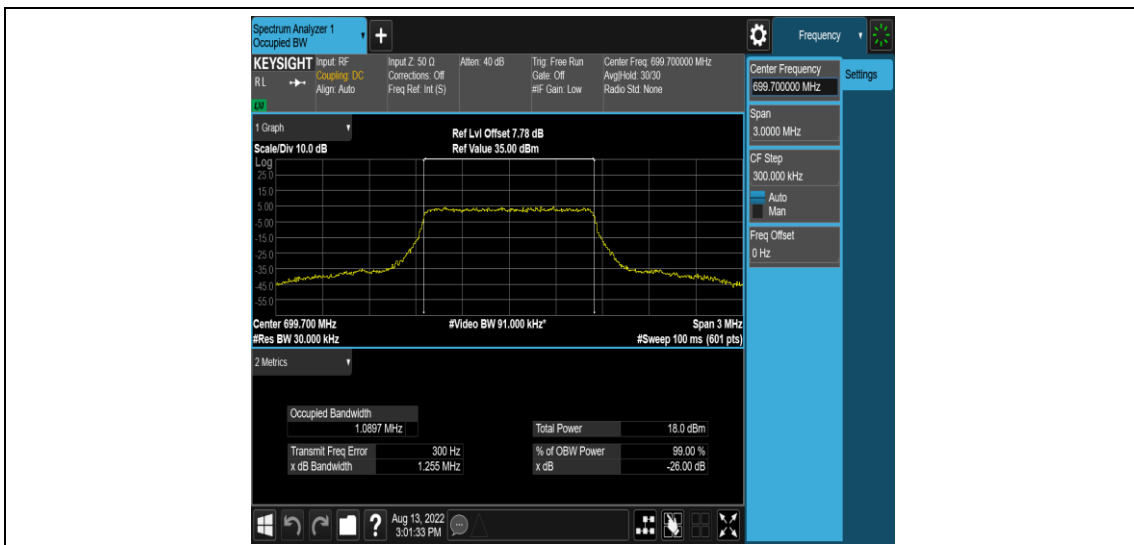
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Appendix C: 26dB Bandwidth and Occupied Bandwidth

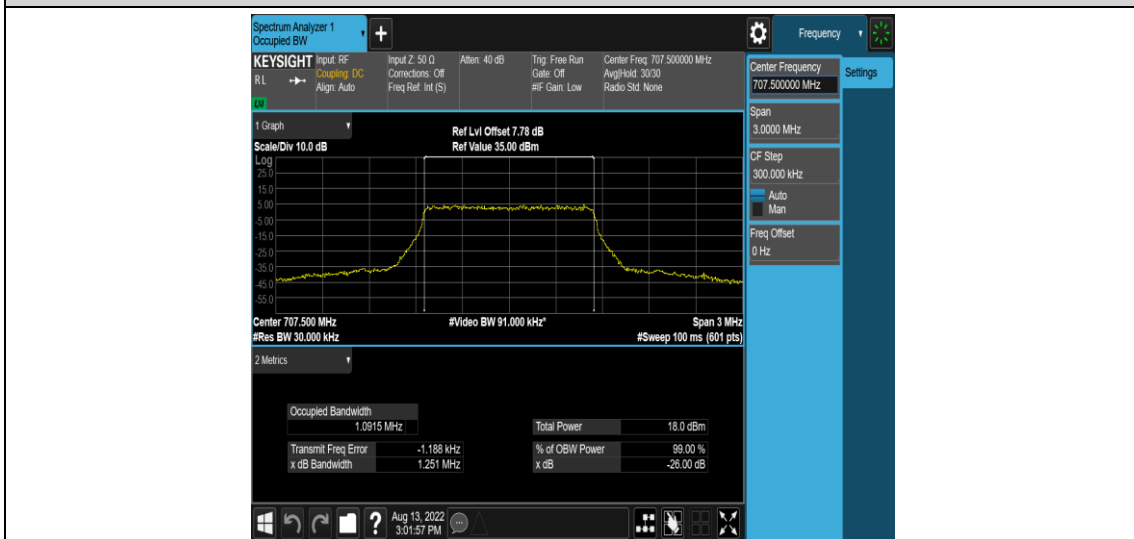
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0897	1.255	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0915	1.251	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0894	1.251	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0899	1.260	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0912	1.267	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0891	1.264	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6935	2.915	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6980	2.918	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6976	2.883	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6884	2.898	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6932	2.915	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6894	2.905	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5035	4.921	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4972	4.874	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4989	4.903	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5082	4.892	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4938	4.894	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5057	4.870	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9648	9.521	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9519	9.537	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9869	9.586	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9435	9.528	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9572	9.514	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9686	9.574	PASS

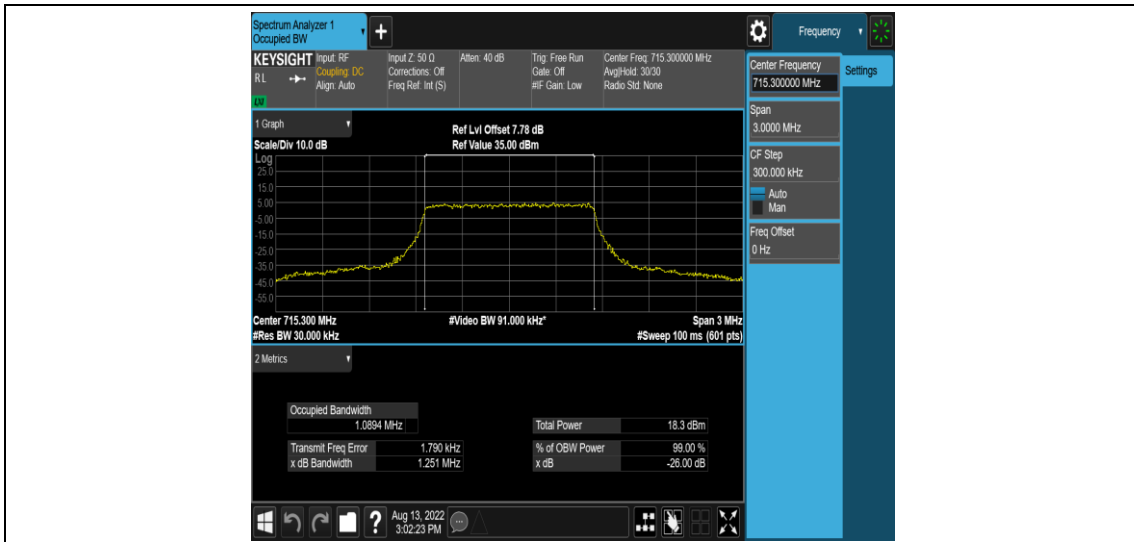
Test Graphs



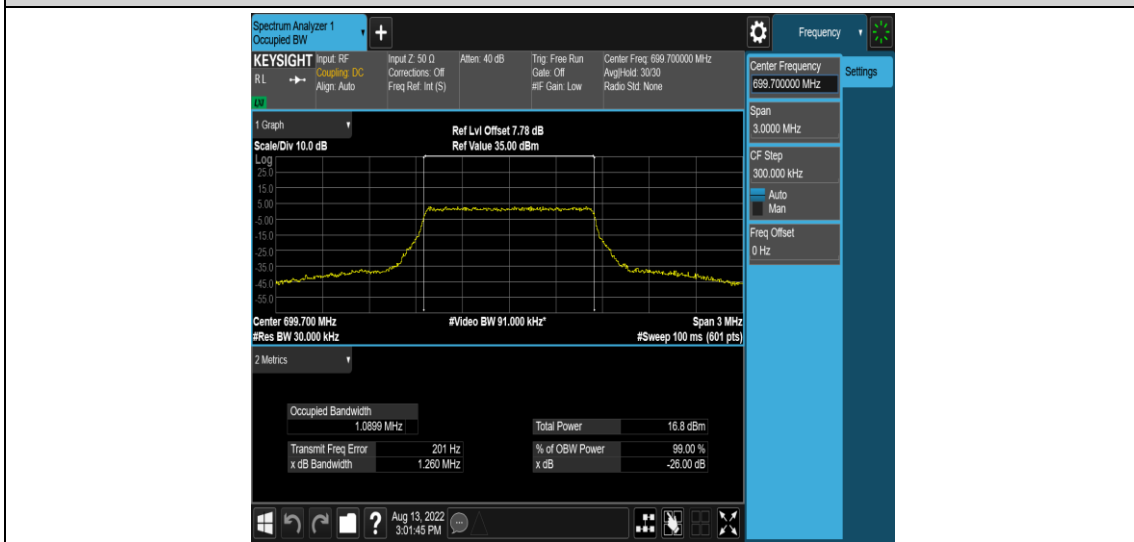
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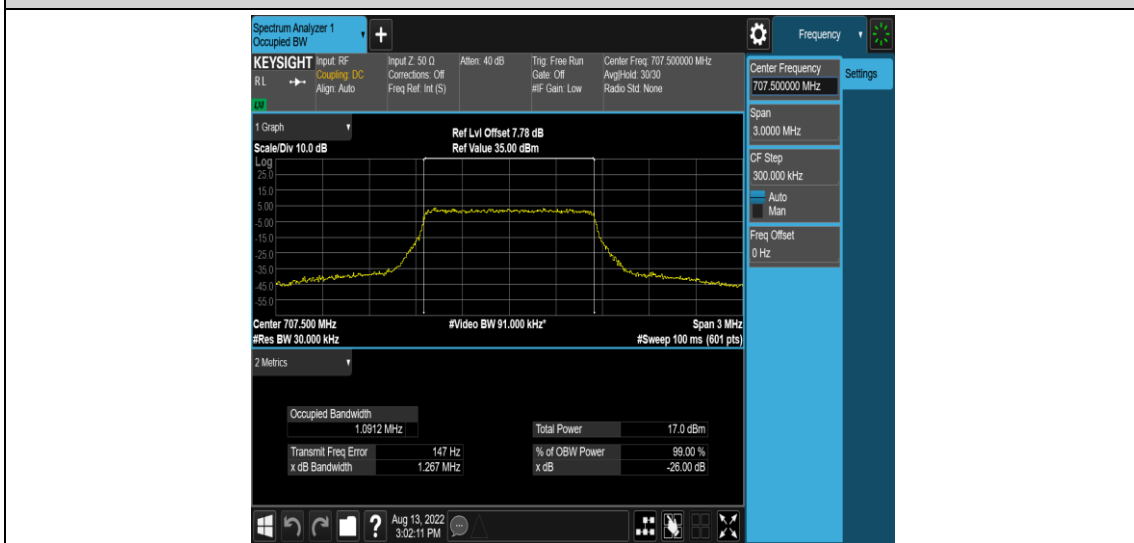
Band12-1.4MHz-QPSK-23095-6RB#0



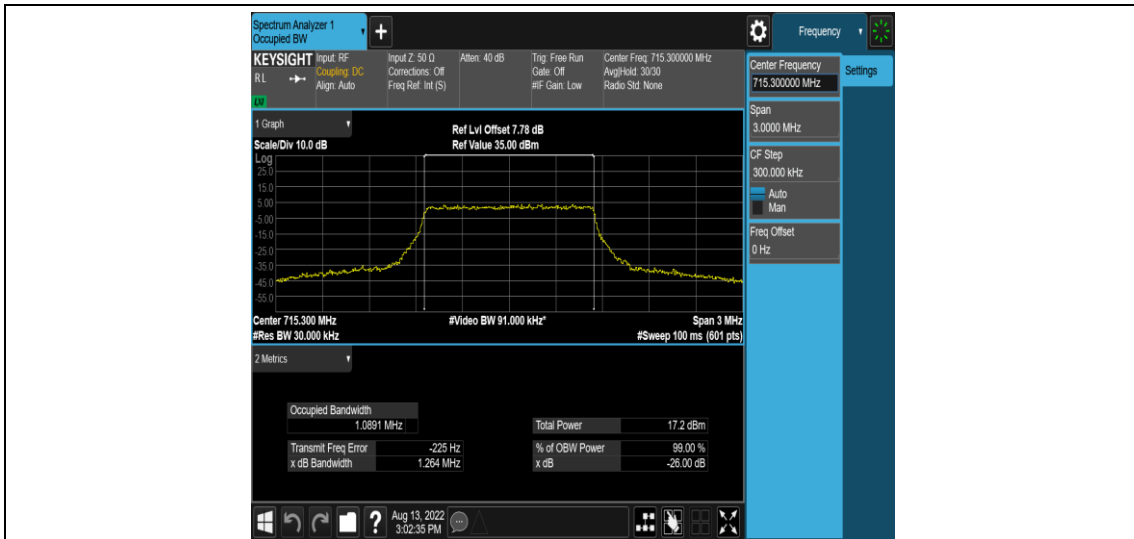
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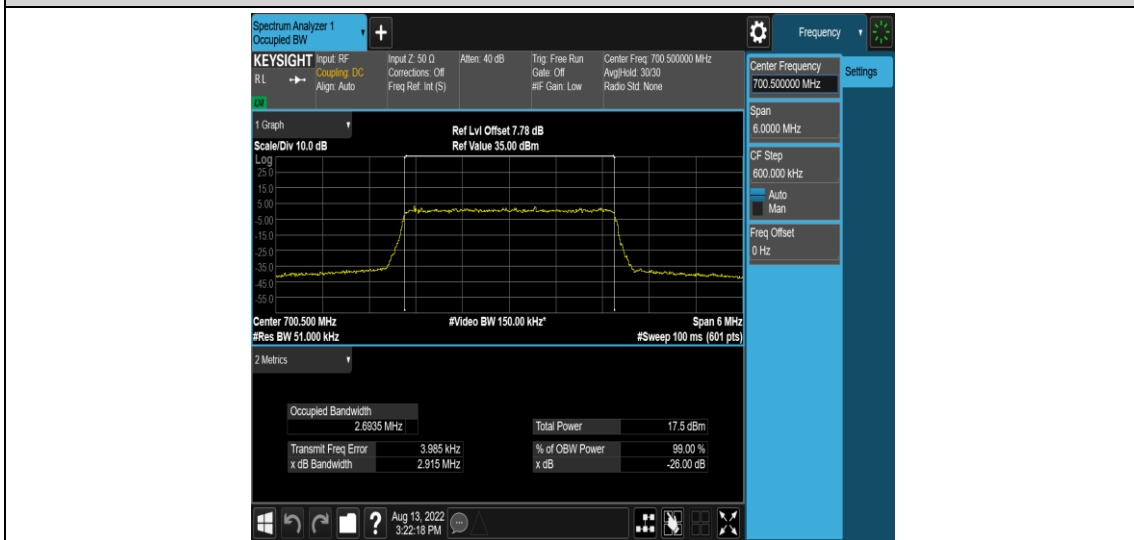
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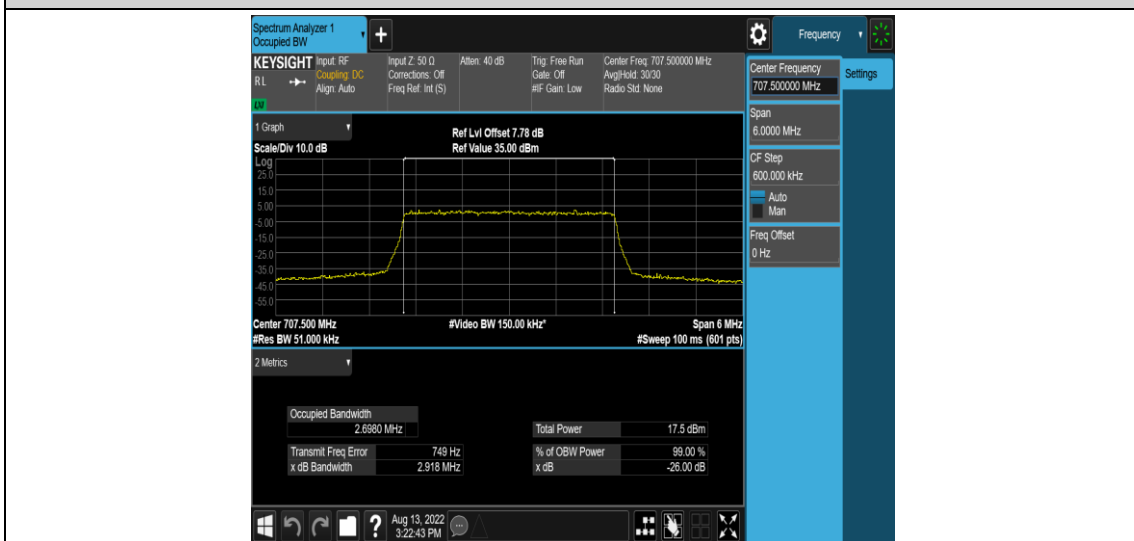
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Band12-1.4MHz-16QAM-23173-6RB#0



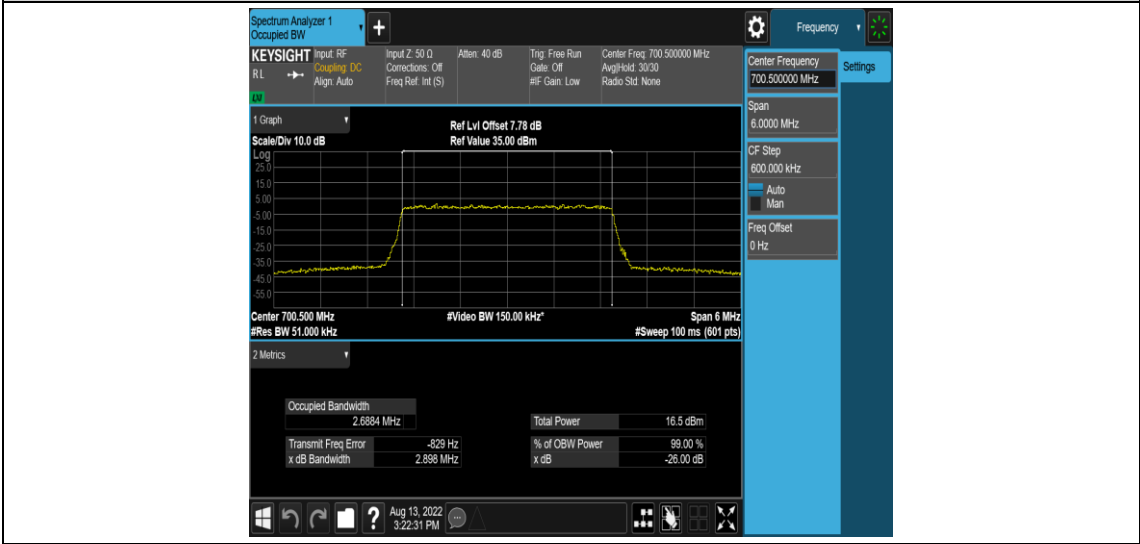
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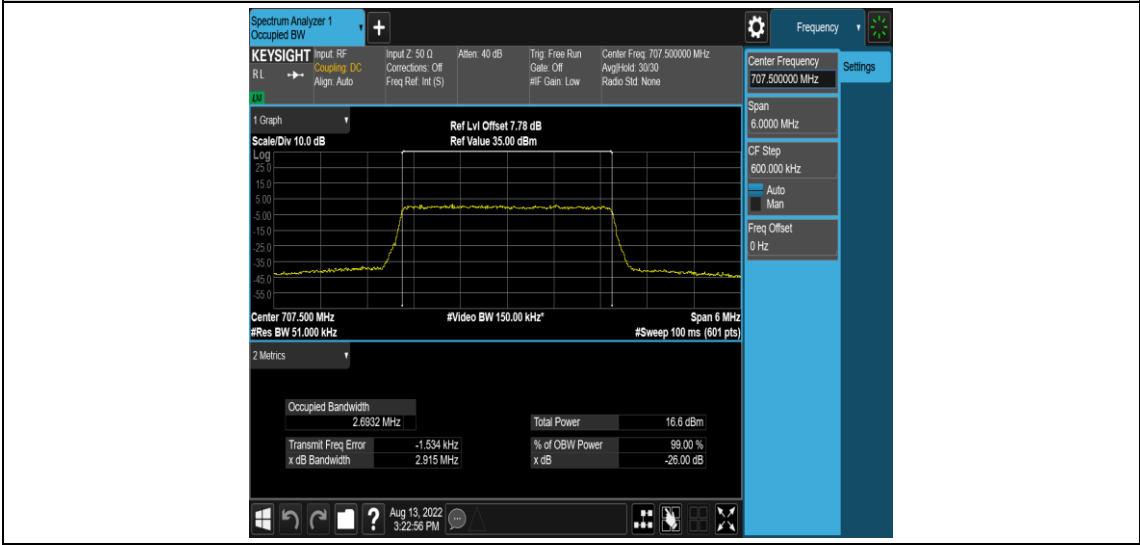
Band12-3MHz-QPSK-23095-15RB#0



Band12-3MHz-QPSK-23165-15RB#0



Band12-3MHz-16QAM-23025-15RB#0



Band12-3MHz-16QAM-23095-15RB#0