



Appendix E: Test Data for E-UTRA Band 12

Product Name: Pawfit Location and Activity Tracker (Pawfit pet Tracker)

Test Model: TR3A

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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E.1 Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	20.68	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	20.58	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	18.24	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	20.65	PASS
Band12	1.4MHz	23095	QPSK	1	5	Middle	20.82	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	18.29	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	20.63	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	20.44	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	18.43	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	19.51	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	19.24	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	18.33	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	19.62	PASS
Band12	1.4MHz	23095	16QAM	1	5	Middle	19.40	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	18.48	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	19.68	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	19.53	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	18.44	PASS
Band12	3MHz	23025	QPSK	1	0	Low	20.34	PASS
Band12	3MHz	23025	QPSK	1	5	Low	20.30	PASS
Band12	3MHz	23025	QPSK	6	0	Low	18.35	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	20.69	PASS
Band12	3MHz	23095	QPSK	1	5	Middle	20.42	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	18.35	PASS
Band12	3MHz	23165	QPSK	1	0	High	20.59	PASS
Band12	3MHz	23165	QPSK	1	5	High	20.39	PASS
Band12	3MHz	23165	QPSK	6	0	High	18.44	PASS
Band12	3MHz	23025	16QAM	1	0	Low	19.47	PASS
Band12	3MHz	23025	16QAM	1	5	Low	19.35	PASS
Band12	3MHz	23025	16QAM	6	0	Low	18.36	PASS
Band12	3MHz	23095	16QAM	1	0	Middle	19.57	PASS
Band12	3MHz	23095	16QAM	1	5	Middle	19.44	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	18.45	PASS
Band12	3MHz	23165	16QAM	1	0	High	19.59	PASS
Band12	3MHz	23165	16QAM	1	5	High	19.52	PASS



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Band12	3MHz	23165	16QAM	6	0	High	18.44	PASS
Band12	5MHz	23035	QPSK	1	0	Low	20.73	PASS
Band12	5MHz	23035	QPSK	1	5	Low	20.71	PASS
Band12	5MHz	23035	QPSK	6	0	Low	19.36	PASS
Band12	5MHz	23095	QPSK	1	0	Middle	20.64	PASS
Band12	5MHz	23095	QPSK	1	5	Middle	20.70	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	19.53	PASS
Band12	5MHz	23155	QPSK	1	0	High	20.62	PASS
Band12	5MHz	23155	QPSK	1	5	High	20.66	PASS
Band12	5MHz	23155	QPSK	6	0	High	19.56	PASS
Band12	5MHz	23035	16QAM	1	0	Low	20.81	PASS
Band12	5MHz	23035	16QAM	1	5	Low	20.71	PASS
Band12	5MHz	23035	16QAM	6	0	Low	19.23	PASS
Band12	5MHz	23095	16QAM	1	0	Middle	20.78	PASS
Band12	5MHz	23095	16QAM	1	5	Middle	20.84	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	19.28	PASS
Band12	5MHz	23155	16QAM	1	0	High	21.00	PASS
Band12	5MHz	23155	16QAM	1	5	High	20.69	PASS
Band12	5MHz	23155	16QAM	6	0	High	19.40	PASS
Band12	10MHz	23060	QPSK	1	0	Low	20.67	PASS
Band12	10MHz	23060	QPSK	1	5	Low	20.54	PASS
Band12	10MHz	23060	QPSK	6	0	Low	19.33	PASS
Band12	10MHz	23095	QPSK	1	0	Middle	20.60	PASS
Band12	10MHz	23095	QPSK	1	5	Middle	20.60	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	19.40	PASS
Band12	10MHz	23130	QPSK	1	0	High	20.59	PASS
Band12	10MHz	23130	QPSK	1	5	High	20.77	PASS
Band12	10MHz	23130	QPSK	6	0	High	19.63	PASS
Band12	10MHz	23060	16QAM	1	0	Low	20.77	PASS
Band12	10MHz	23060	16QAM	1	5	Low	20.64	PASS
Band12	10MHz	23060	16QAM	6	0	Low	19.16	PASS
Band12	10MHz	23095	16QAM	1	0	Middle	20.78	PASS
Band12	10MHz	23095	16QAM	1	5	Middle	20.74	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	19.18	PASS
Band12	10MHz	23130	16QAM	1	0	High	21.03	PASS
Band12	10MHz	23130	16QAM	1	5	High	20.94	PASS
Band12	10MHz	23130	16QAM	6	0	High	19.43	PASS



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E.2 Peak-to-Average Ratio(CCDF) for M1

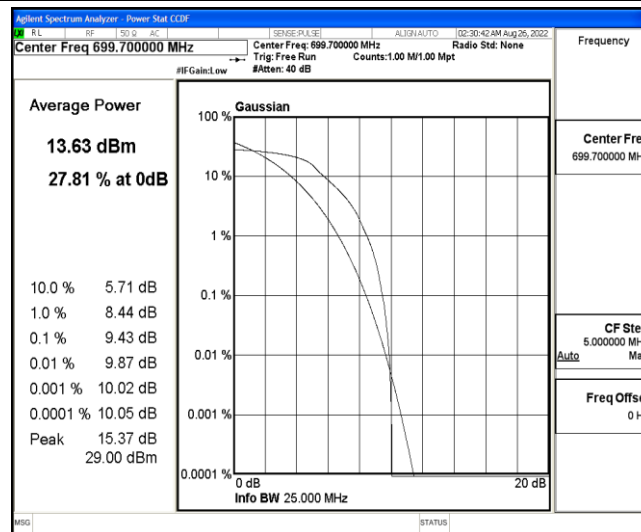
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	9.43	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	9.79	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	12.22	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	10.15	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	9.27	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	10.52	PASS
Band12	3MHz	23025	QPSK	6	0	Low	9.98	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	9.72	PASS
Band12	3MHz	23165	QPSK	6	0	High	12.62	PASS
Band12	3MHz	23025	16QAM	6	0	Low	9.46	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	9.38	PASS
Band12	3MHz	23165	16QAM	6	0	High	9.25	PASS
Band12	5MHz	23035	QPSK	6	0	Low	8.33	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	7.80	PASS
Band12	5MHz	23155	QPSK	6	0	High	9.57	PASS
Band12	5MHz	23035	16QAM	6	0	Low	9.63	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	10.30	PASS
Band12	5MHz	23155	16QAM	6	0	High	9.45	PASS
Band12	10MHz	23060	QPSK	6	0	Low	8.27	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	9.42	PASS
Band12	10MHz	23130	QPSK	6	0	High	11.43	PASS
Band12	10MHz	23060	16QAM	6	0	Low	8.78	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	9.15	PASS
Band12	10MHz	23130	16QAM	6	0	High	9.00	PASS

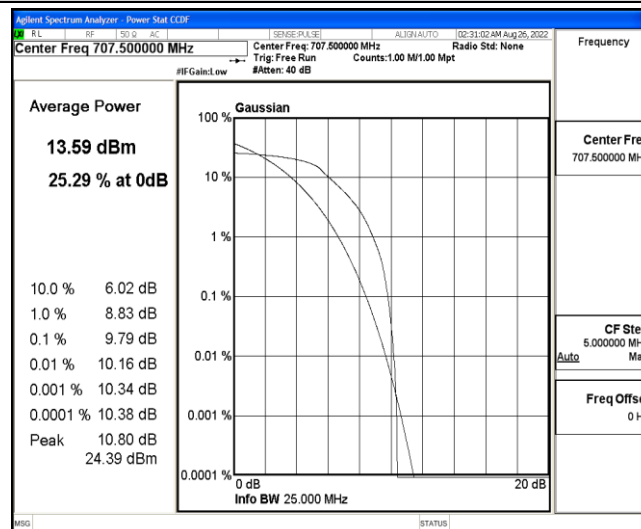




Test Graphs

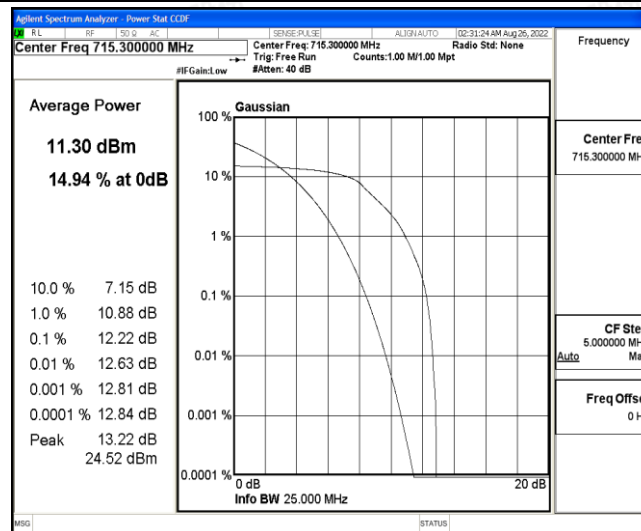


Band12-1.4MHz-QPSK-23017-6-0-Low-9.43-<=13-PASS

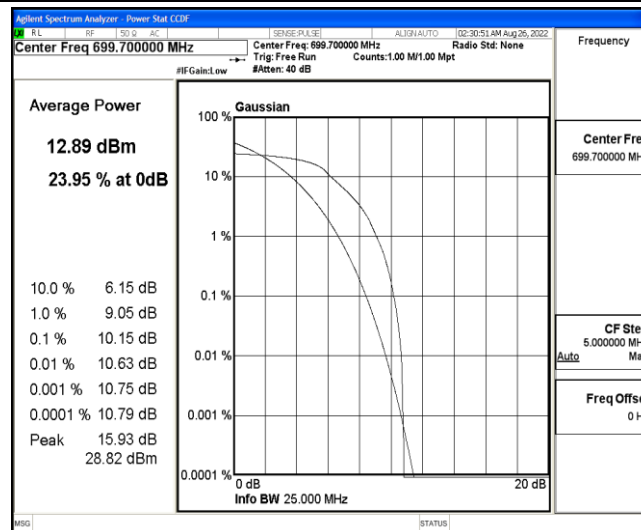


Band12-1.4MHz-QPSK-23095-6-0-Low-9.79-<=13-PASS

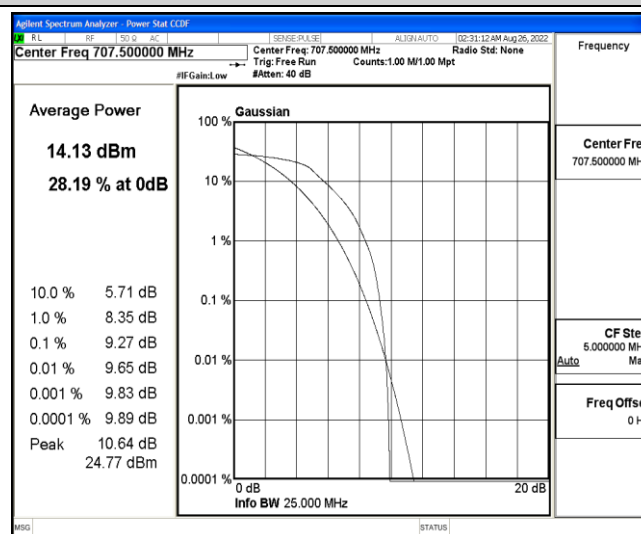




Band12-1.4MHz-QPSK-23173-6-0-High-12.22-<=13-PASS

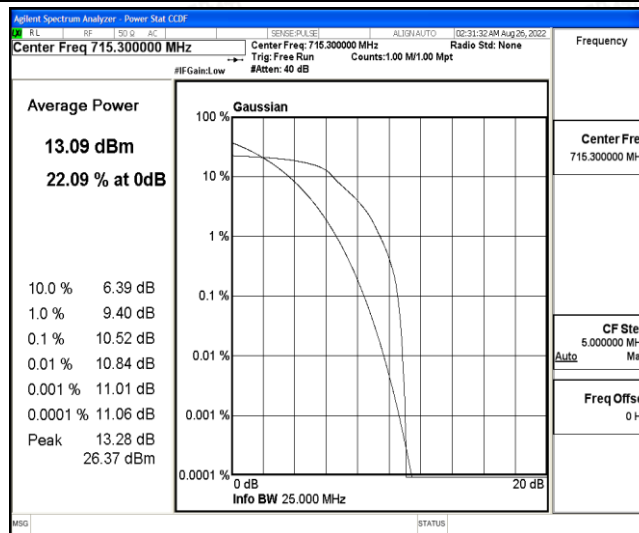


Band12-1.4MHz-16QAM-23017-6-0-Low-10.15-<=13-PASS

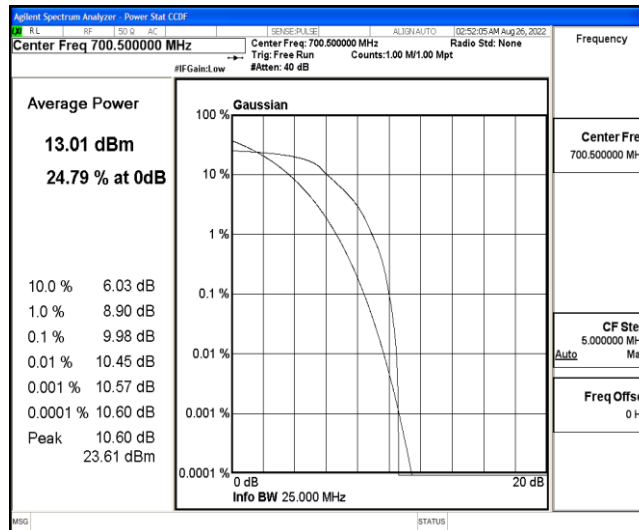


Band12-1.4MHz-16QAM-23095-6-0-Low-9.27-<=13-PASS

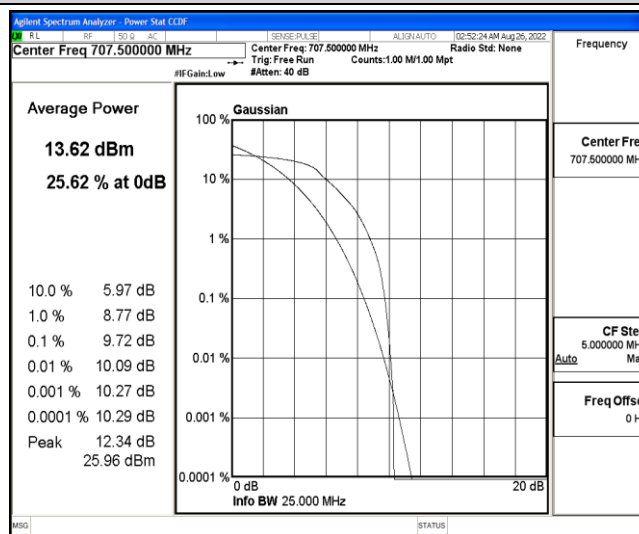




Band12-1.4MHz-16QAM-23173-6-0-High-10.52-<=13-PASS

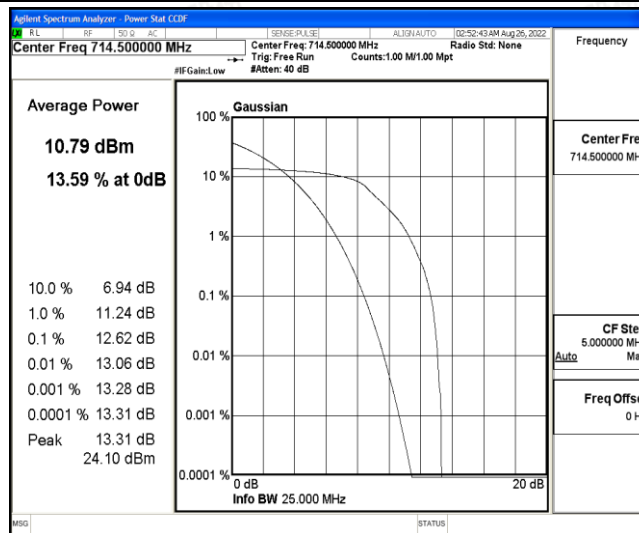


Band12-3MHz-QPSK-23025-6-0-Low-9.98-<=13-PASS

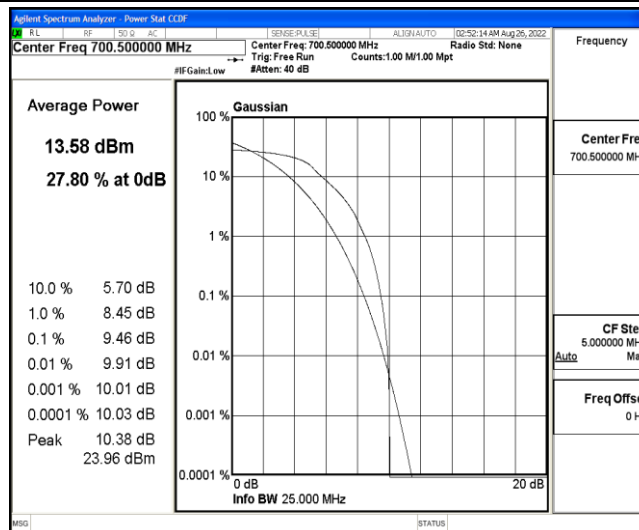


Band12-3MHz-QPSK-23095-6-0-Low-9.72-<=13-PASS

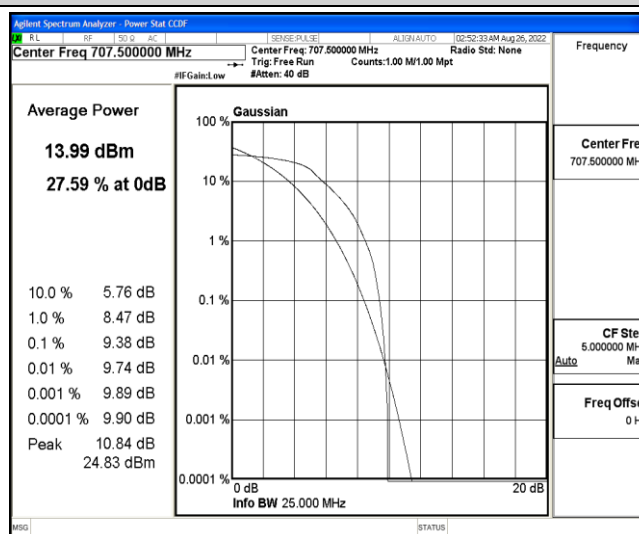




Band12-3MHz-QPSK-23165-6-0-High-12.62-13-PASS

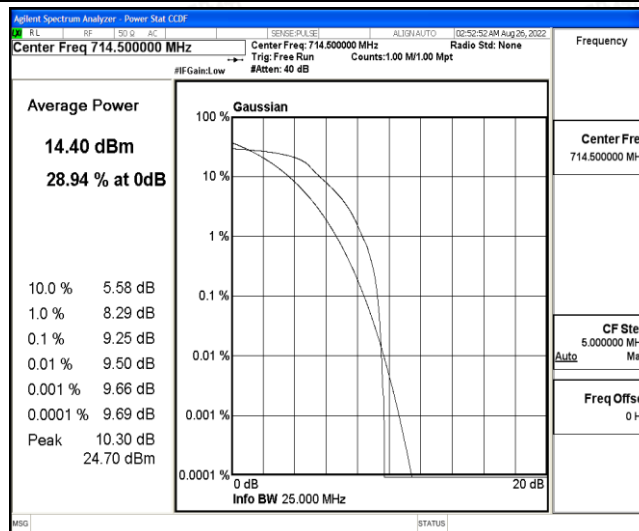


Band12-3MHz-16QAM-23025-6-0-Low-9.46-13-PASS

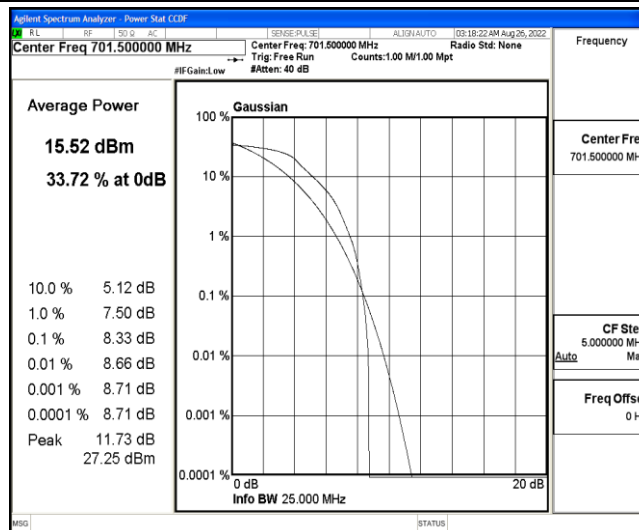


Band12-3MHz-16QAM-23095-6-0-Low-9.38-13-PASS

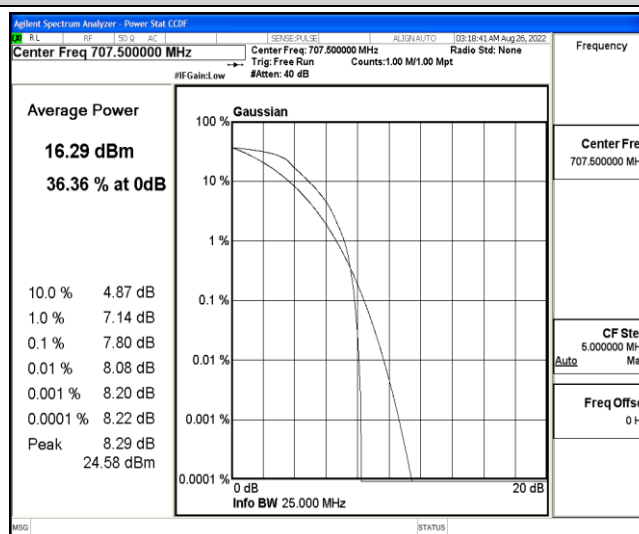




Band12-3MHz-16QAM-23165-6-0-High-9.25-13-PASS

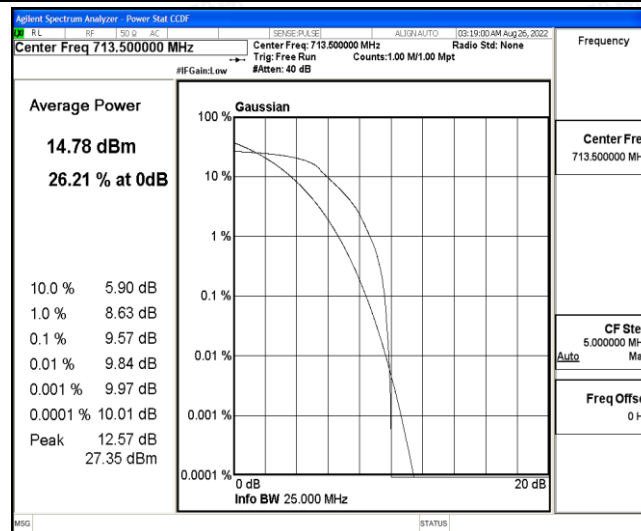


Band12-5MHz-QPSK-23035-6-0-Low-8.33-13-PASS

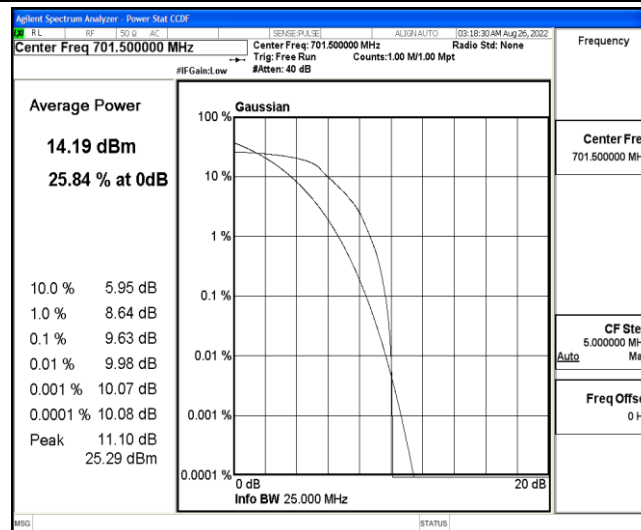


Band12-5MHz-QPSK-23095-6-0-Low-7.80-13-PASS

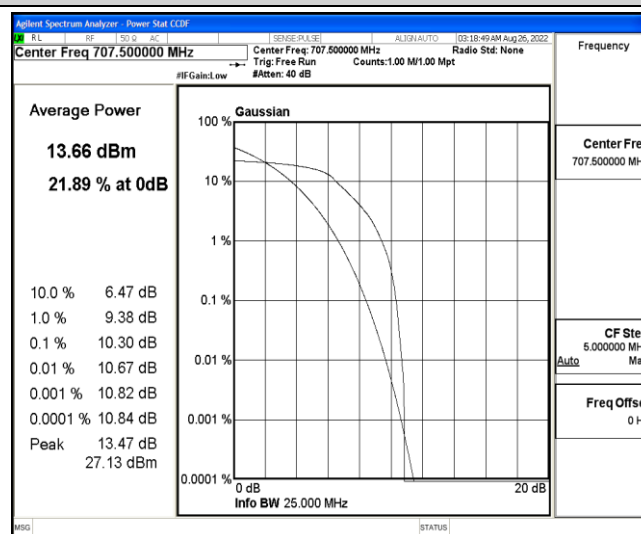




Band12-5MHz-QPSK-23155-6-0-High-9.57-<=13-PASS

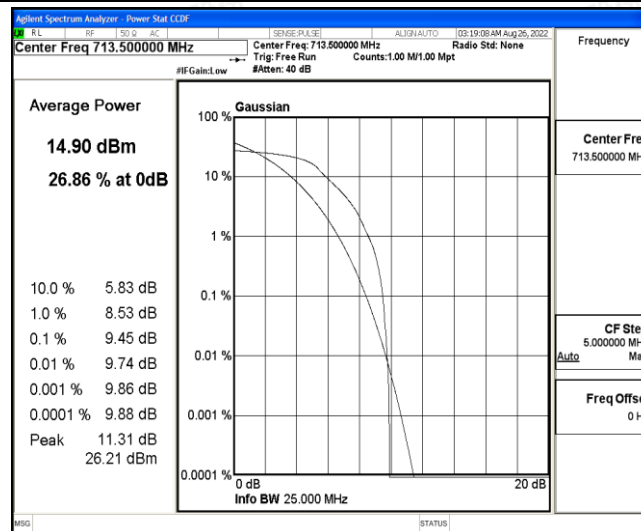


Band12-5MHz-16QAM-23035-6-0-Low-9.63-<=13-PASS

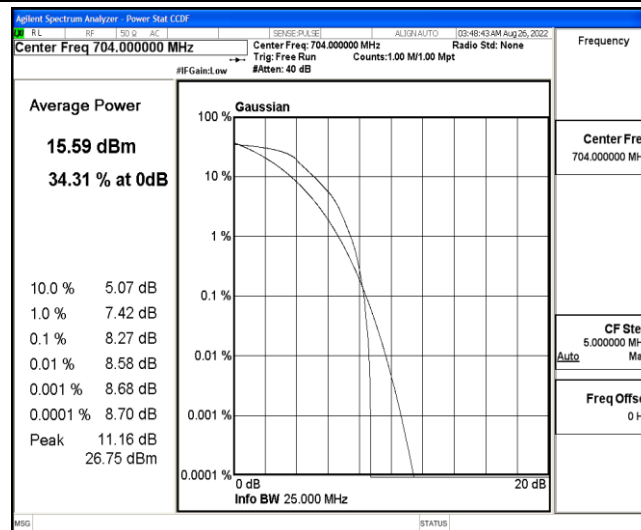


Band12-5MHz-16QAM-23095-6-0-Low-10.30-<=13-PASS

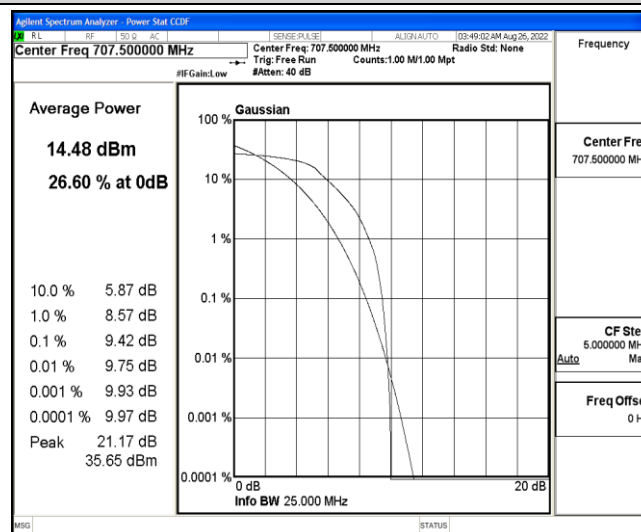




Band12-5MHz-16QAM-23155-6-0-High-9.45-<=13-PASS



Band12-10MHz-QPSK-23060-6-0-Low-8.27-<=13-PASS



Band12-10MHz-QPSK-23095-6-0-Low-9.42-<=13-PASS

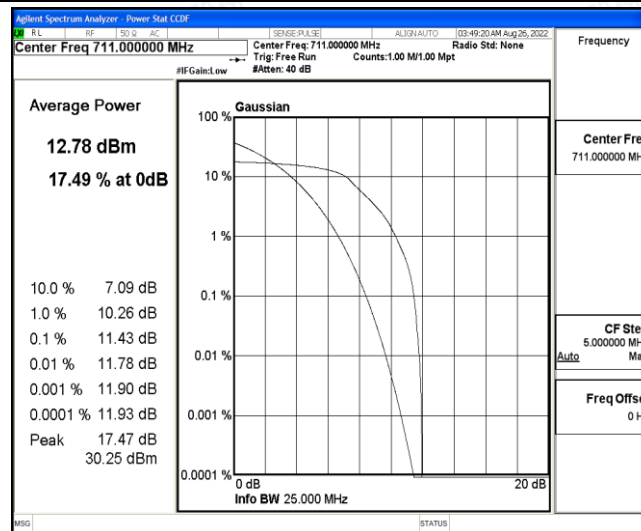


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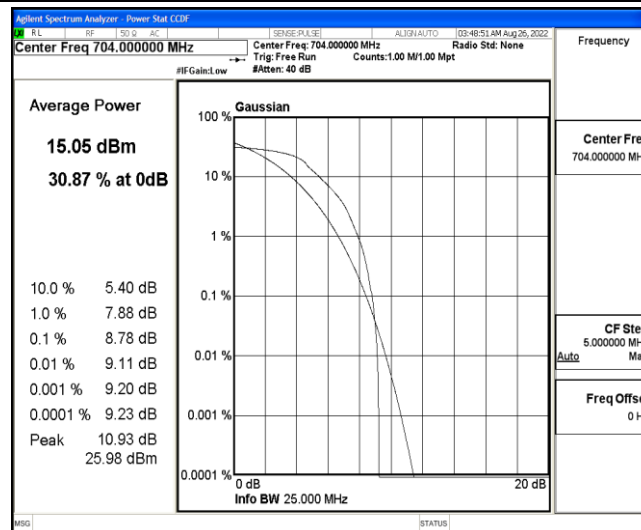
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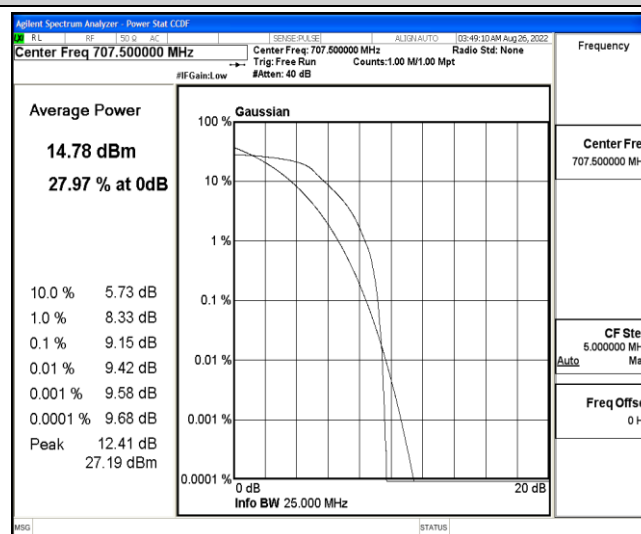
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Band12-10MHz-QPSK-23130-6-0-High-11.43-<=13-PASS

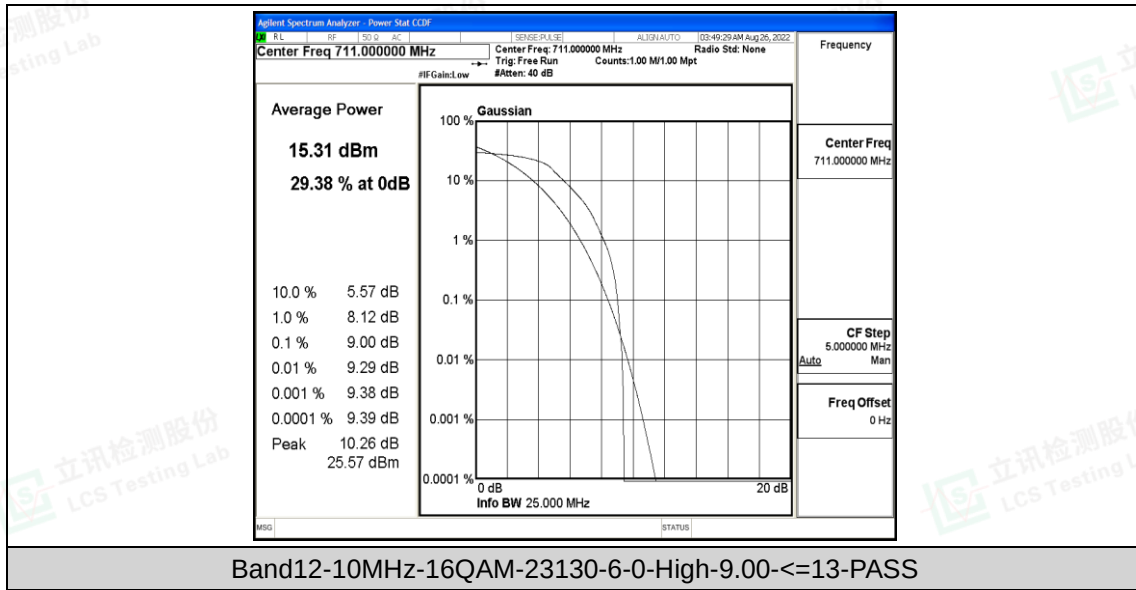


Band12-10MHz-16QAM-23060-6-0-Low-8.78-<=13-PASS



Band12-10MHz-16QAM-23095-6-0-Low-9.15-<=13-PASS







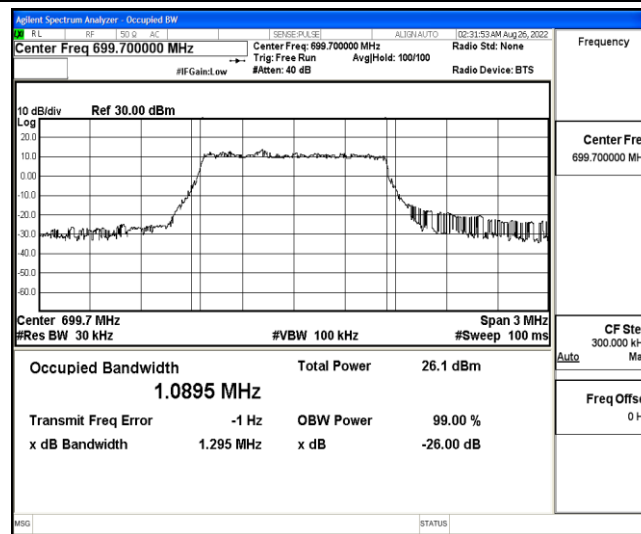
E.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

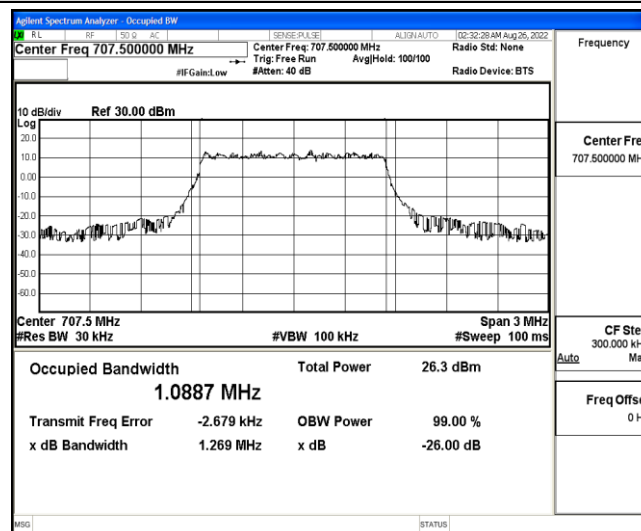
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.0895	1.295	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	1.0887	1.269	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.0862	1.325	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.0885	1.282	PASS
Band12	1.4MHz	23095	16QAM	6	0	Middle	1.0912	1.263	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.0972	1.286	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.1145	1.366	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	1.1093	1.316	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.1179	1.429	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.1066	1.381	PASS
Band12	3MHz	23095	16QAM	6	0	Middle	1.1077	1.354	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.1130	1.450	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.1771	1.480	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	1.1713	1.568	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.1884	1.414	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.1818	1.523	PASS
Band12	5MHz	23095	16QAM	6	0	Middle	1.1624	1.445	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.1877	1.432	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.3356	2.262	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	1.3602	2.080	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.3426	1.720	PASS
Band12	10MHz	23060	16QAM	6	0	Low	1.3527	2.187	PASS
Band12	10MHz	23095	16QAM	6	0	Middle	1.3373	2.039	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.3387	1.832	PASS



Test Graphs



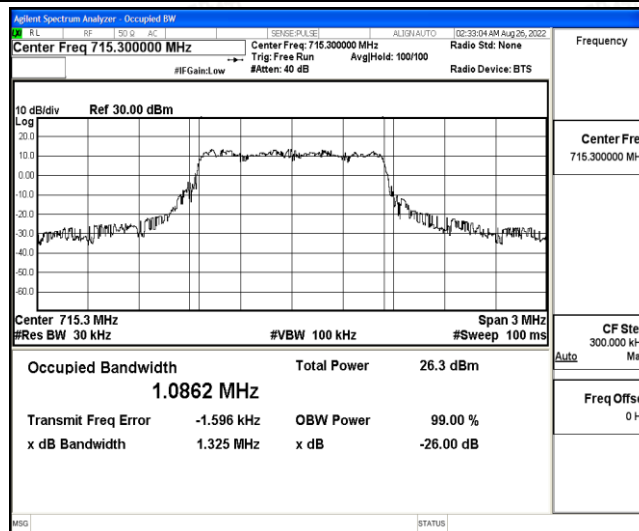
Band12-1.4MHz-QPSK-23017-6-0-Low-1.0895-1.295-PASS



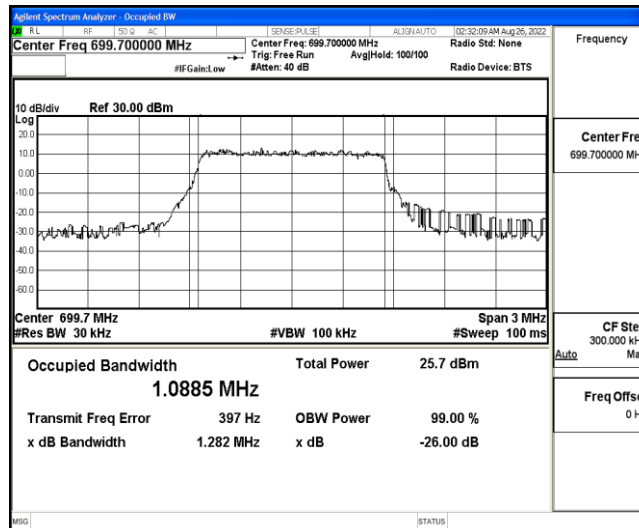
Band12-1.4MHz-QPSK-23095-6-0-Low-1.0887-1.269-PASS



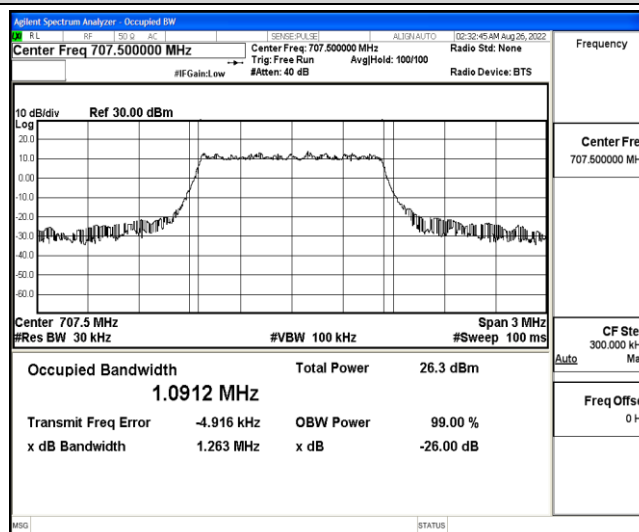
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Band12-1.4MHz-QPSK-23173-6-0-High-1.0862-1.325-PASS



Band12-1.4MHz-16QAM-23017-6-0-Low-1.0885-1.282-PASS



Band12-1.4MHz-16QAM-23095-6-0-Low-1.0912-1.263-PASS

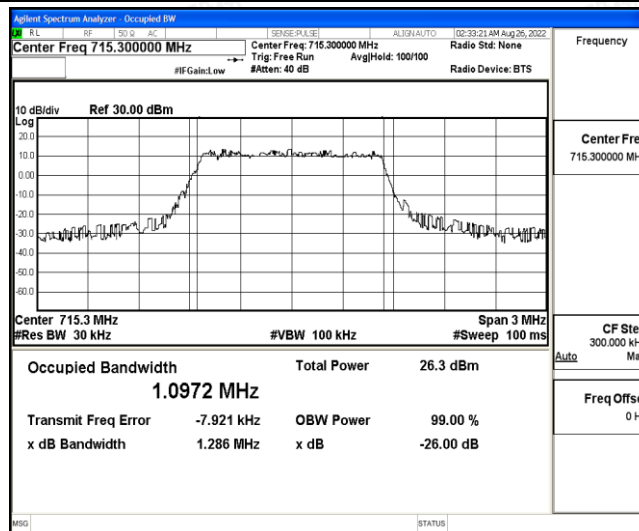


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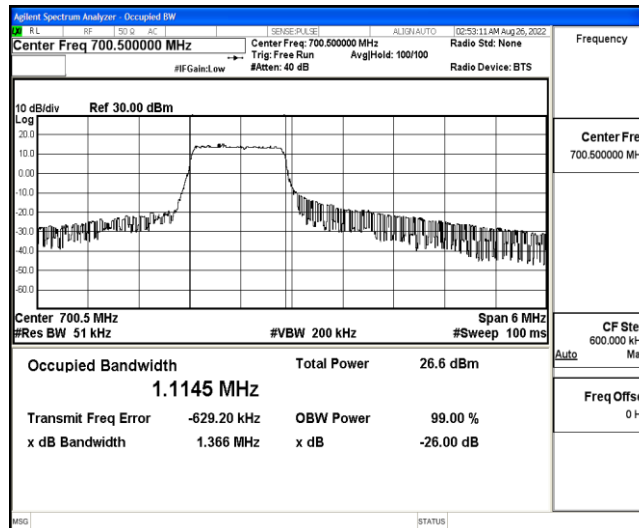
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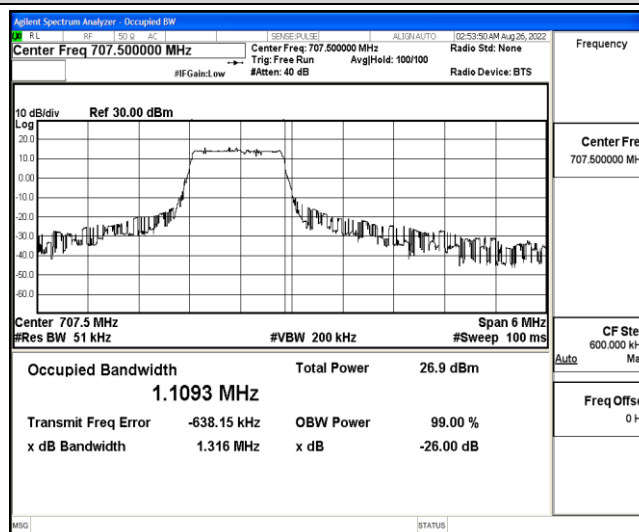
Scan code to check authenticity



Band12-1.4MHz-16QAM-23173-6-0-High-1.0972-1.286-PASS

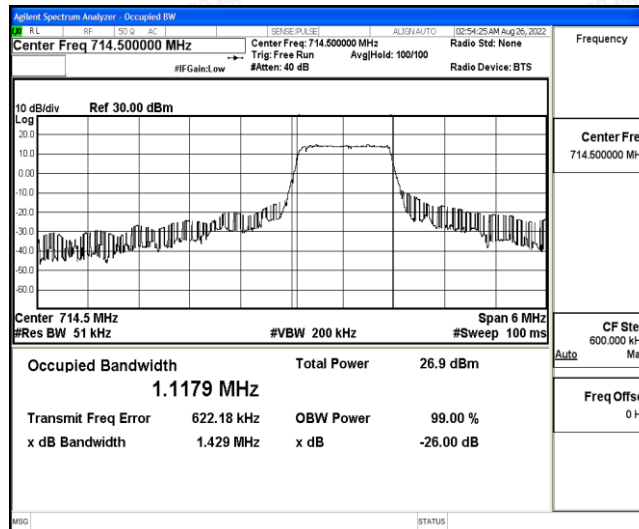


Band12-3MHz-QPSK-23025-6-0-Low-1.1145-1.366-PASS

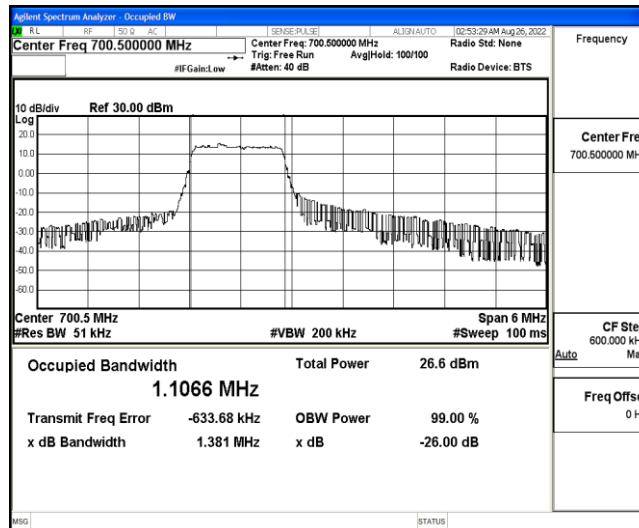


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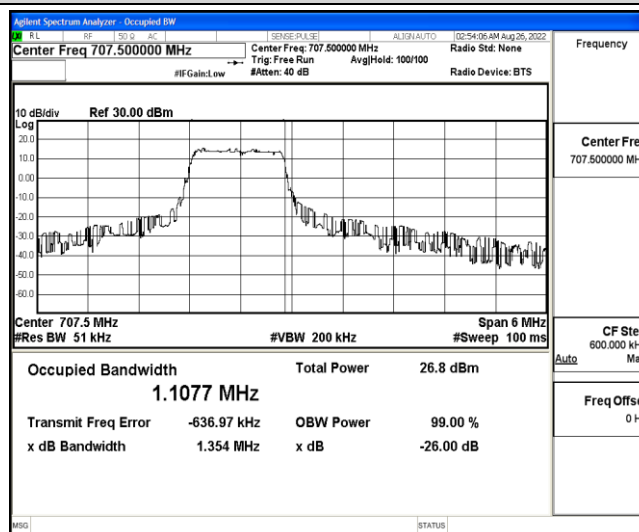




Band12-3MHz-QPSK-23165-6-0-High-1.1179-1.429-PASS



Band12-3MHz-16QAM-23025-6-0-Low-1.1066-1.381-PASS



Band12-3MHz-16QAM-23095-6-0-Low-1.1077-1.354-PASS

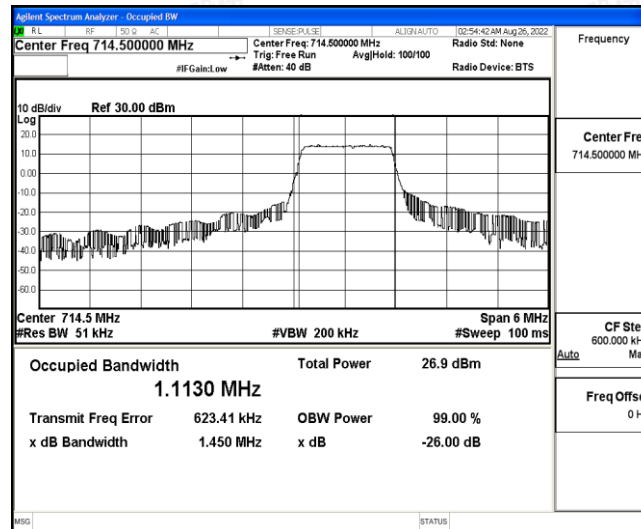


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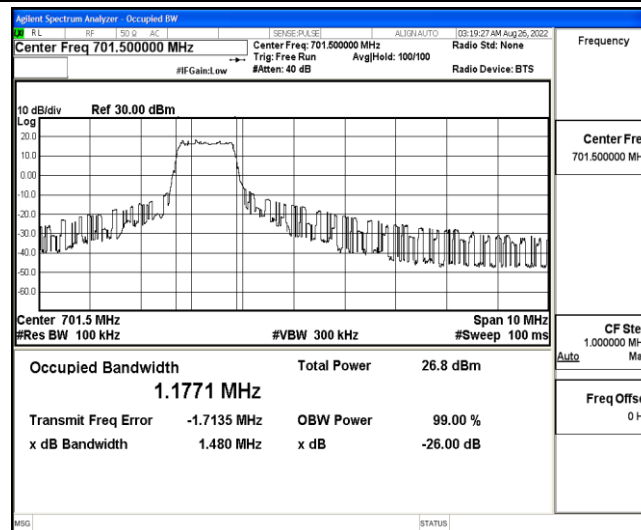
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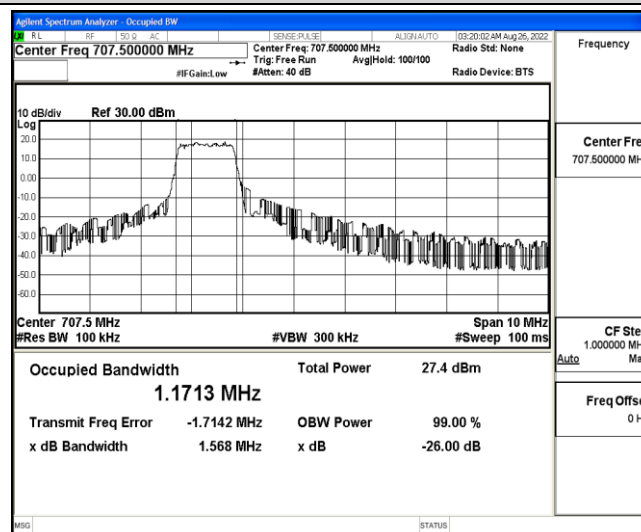
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Band12-3MHz-16QAM-23165-6-0-High-1.1130-1.450-PASS



Band12-5MHz-QPSK-23035-6-0-Low-1.1771-1.480-PASS



Band12-5MHz-QPSK-23095-6-0-Low-1.1713-1.568-PASS

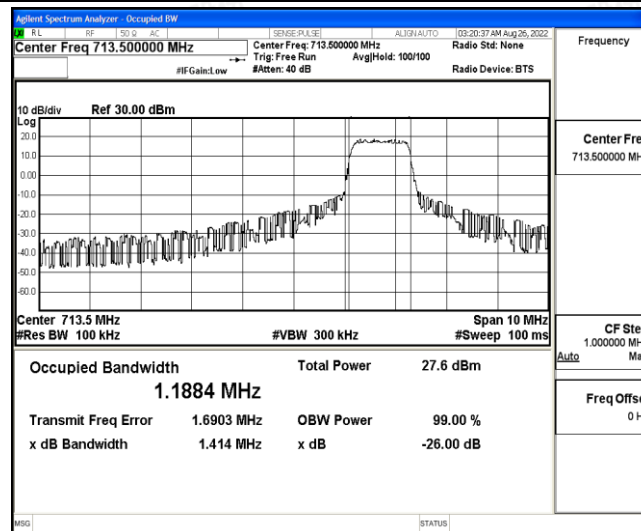


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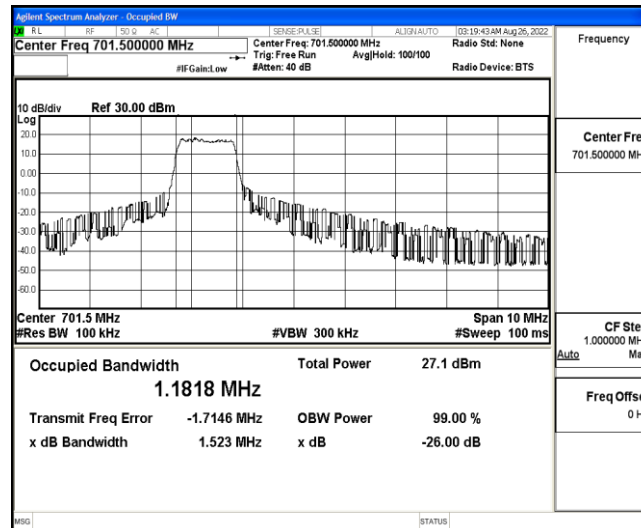
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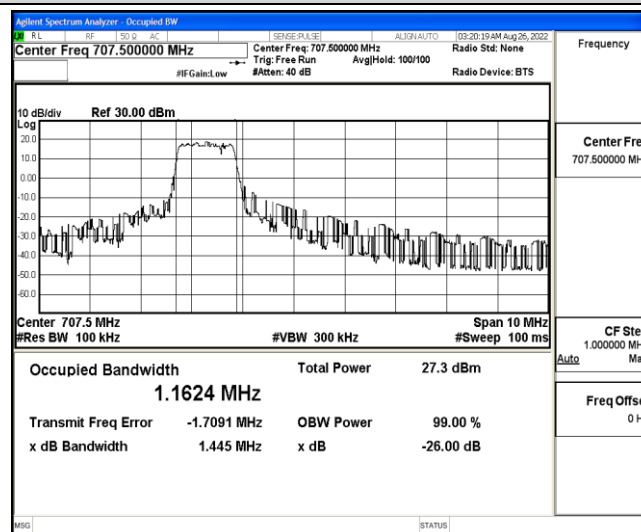
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Band12-5MHz-QPSK-23155-6-0-High-1.1884-1.414-PASS



Band12-5MHz-16QAM-23035-6-0-Low-1.1818-1.523-PASS



Band12-5MHz-16QAM-23095-6-0-Low-1.1624-1.445-PASS

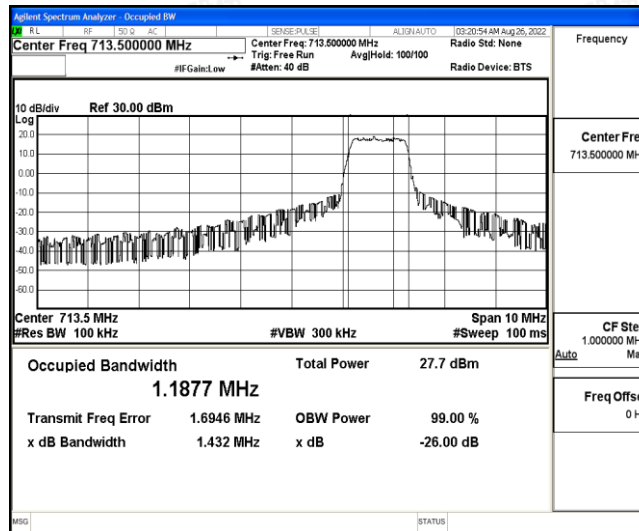


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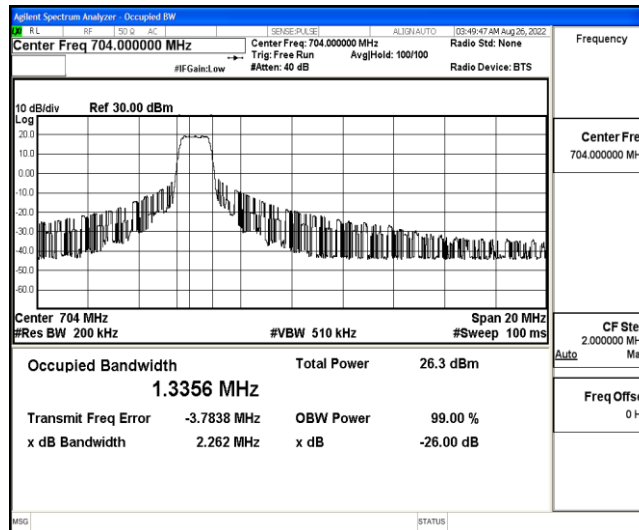
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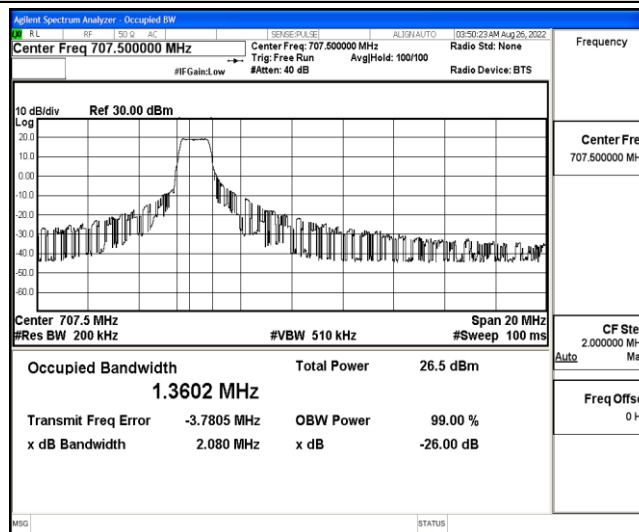
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Band12-5MHz-16QAM-23155-6-0-High-1.1877-1.432-PASS

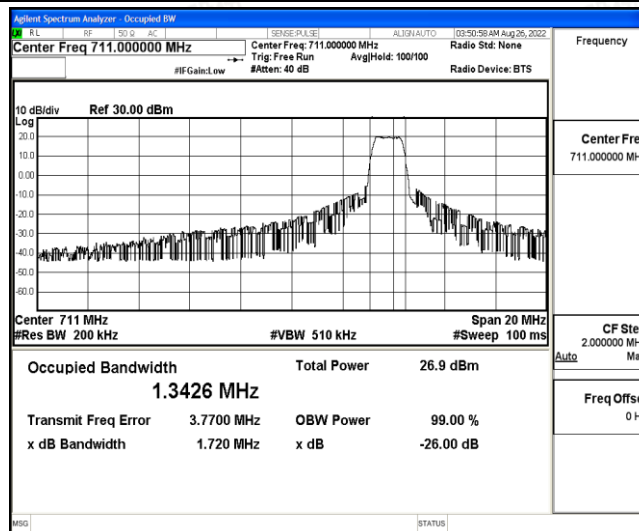


Band12-10MHz-QPSK-23060-6-0-Low-1.3356-2.262-PASS

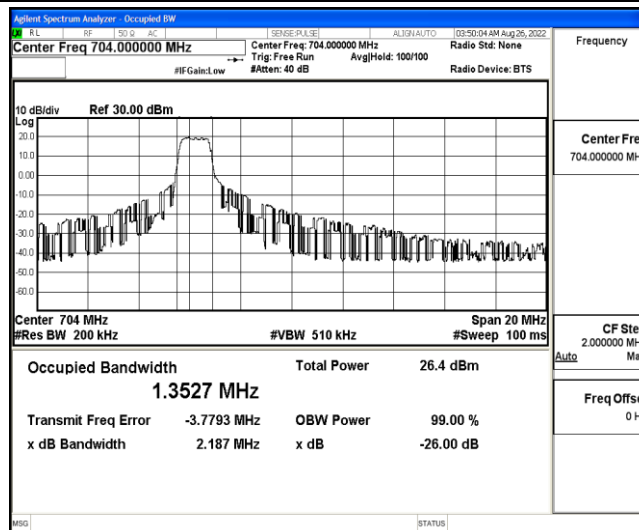


Band12-10MHz-QPSK-23095-6-0-Low-1.3602-2.080-PASS

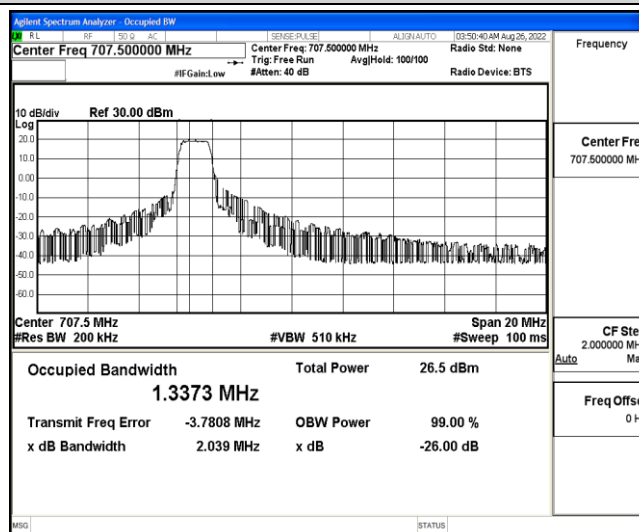




Band12-10MHz-QPSK-23130-6-0-High-1.3426-1.720-PASS

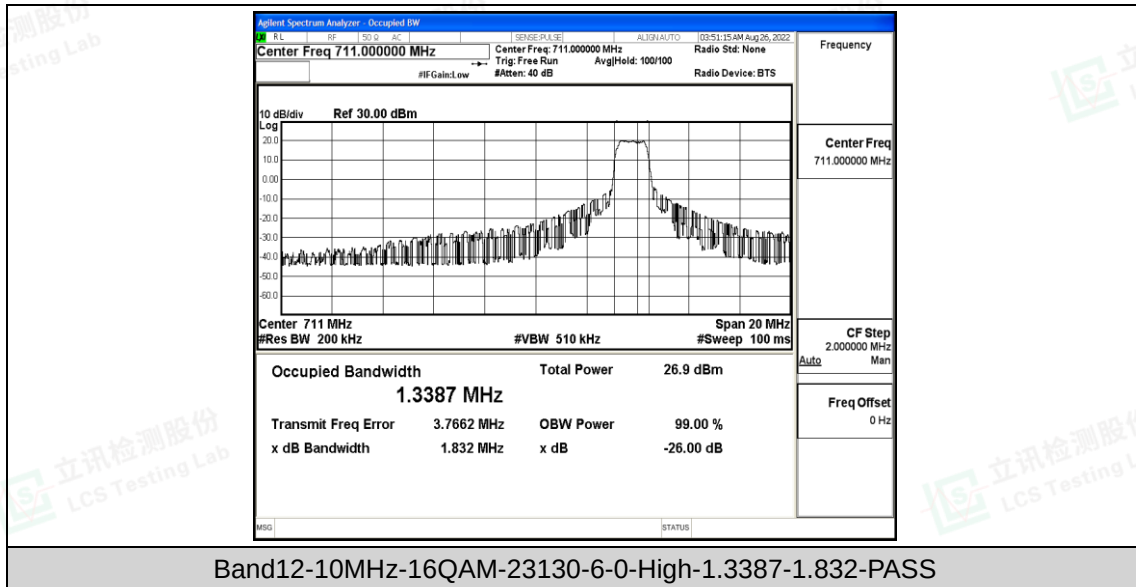


Band12-10MHz-16QAM-23060-6-0-Low-1.3527-2.187-PASS



Band12-10MHz-16QAM-23095-6-0-Low-1.3373-2.039-PASS





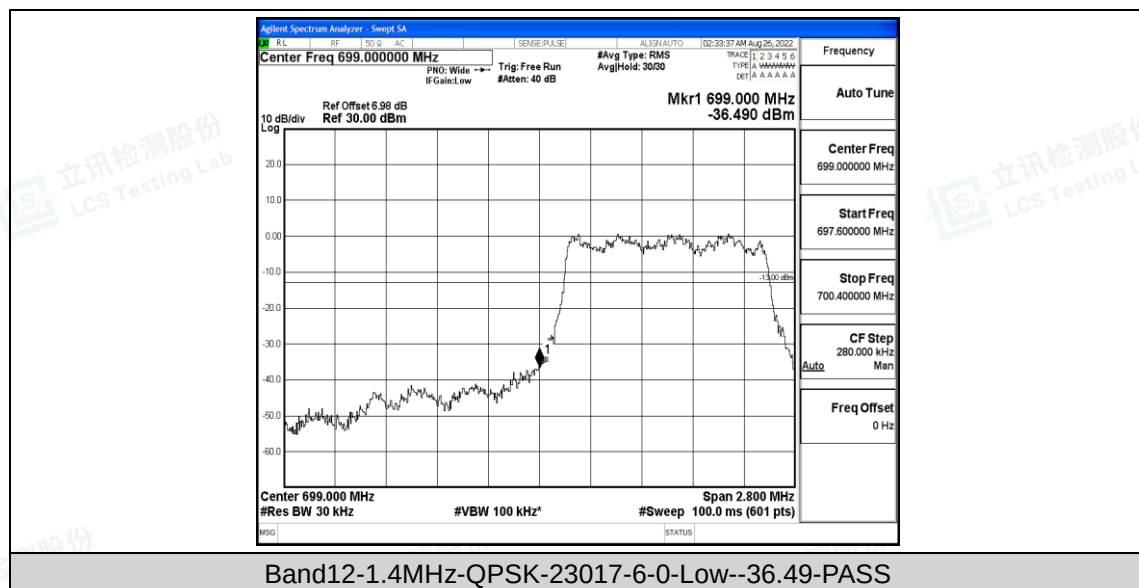


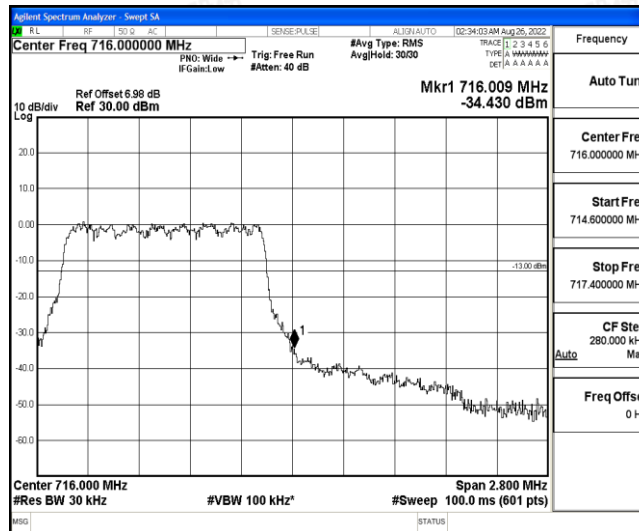
E.4 Band Edge for M1

Test Result

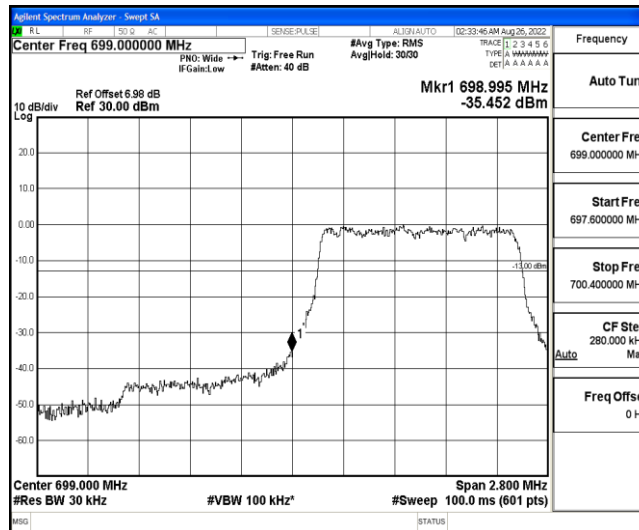
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	-36.49	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	-34.43	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	-35.45	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	-35.41	PASS
Band12	3MHz	23025	QPSK	6	0	Low	-38.80	PASS
Band12	3MHz	23165	QPSK	6	0	High	-35.37	PASS
Band12	3MHz	23025	16QAM	6	0	Low	-38.57	PASS
Band12	3MHz	23165	16QAM	6	0	High	-35.67	PASS
Band12	5MHz	23035	QPSK	6	0	Low	-33.01	PASS
Band12	5MHz	23155	QPSK	6	0	High	-29.26	PASS
Band12	5MHz	23035	16QAM	6	0	Low	-31.83	PASS
Band12	5MHz	23155	16QAM	6	0	High	-29.92	PASS
Band12	10MHz	23060	QPSK	6	0	Low	-33.90	PASS
Band12	10MHz	23130	QPSK	6	0	High	-32.47	PASS
Band12	10MHz	23060	16QAM	6	0	Low	-33.32	PASS
Band12	10MHz	23130	16QAM	6	0	High	-33.97	PASS

Test Graphs

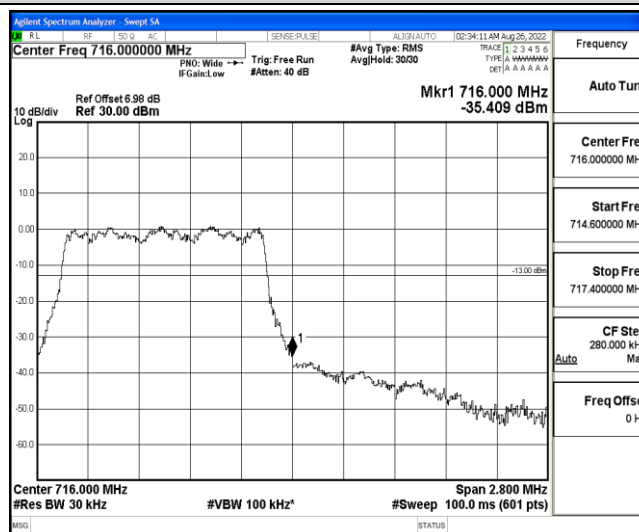




Band12-1.4MHz-QPSK-23173-6-0-High--34.43-PASS



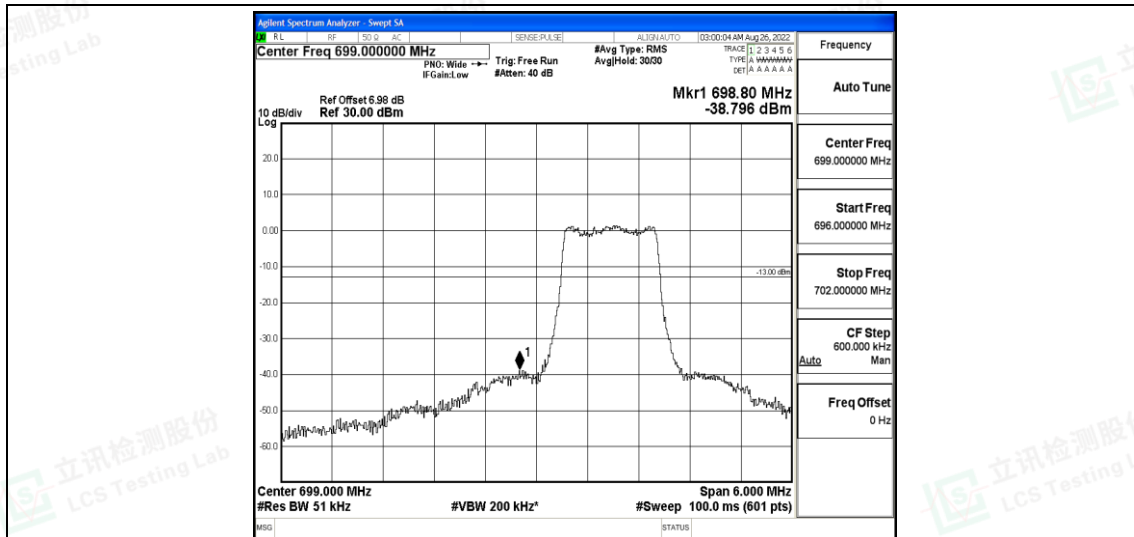
Band12-1.4MHz-16QAM-23017-6-0-Low--35.45-PASS



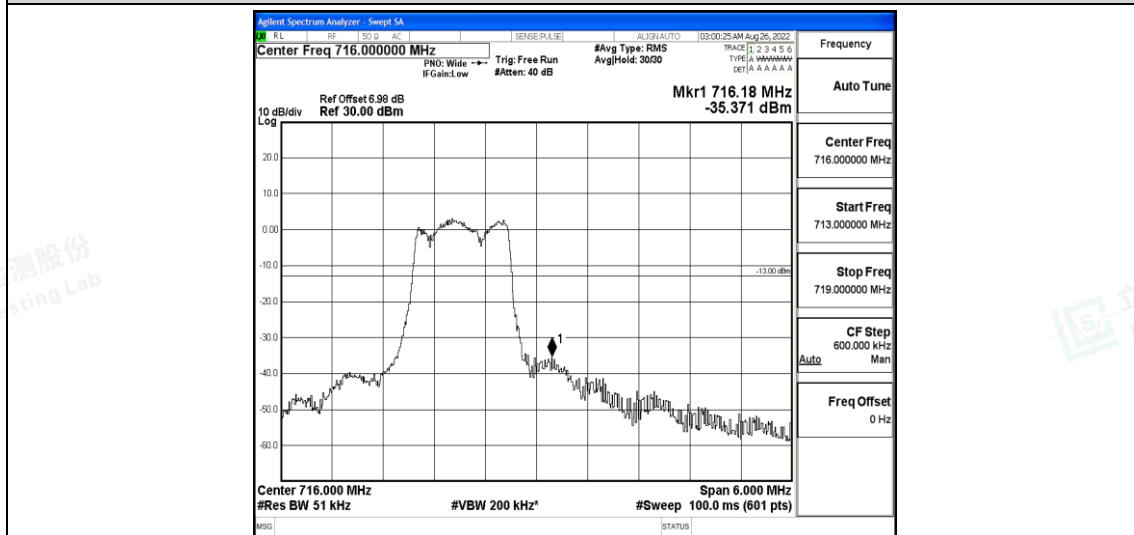
Band12-1.4MHz-16QAM-23173-6-0-High--35.41-PASS



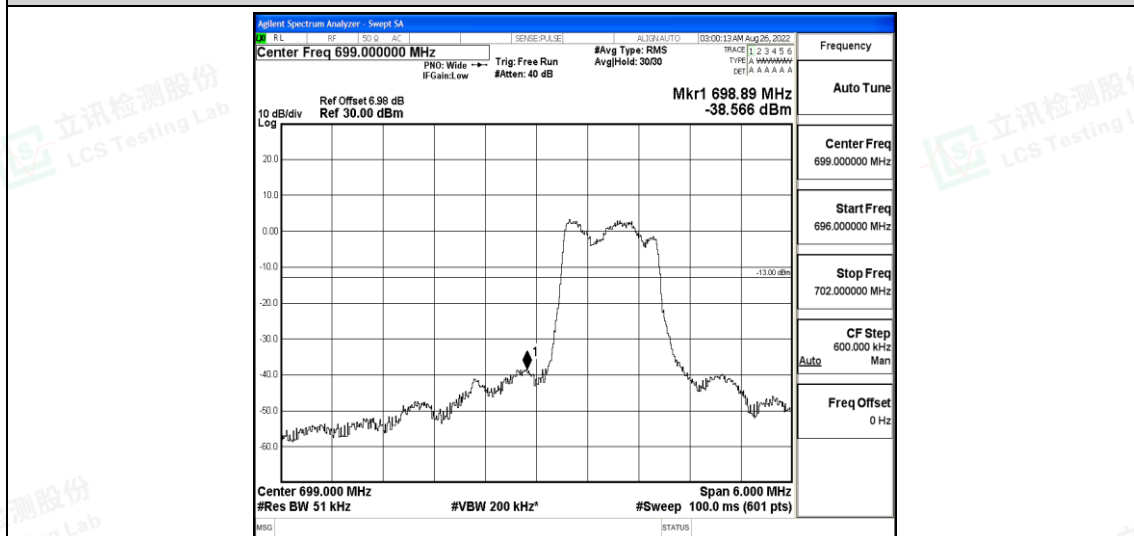
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Band12-3MHz-QPSK-23025-6-0-Low--38.80-PASS



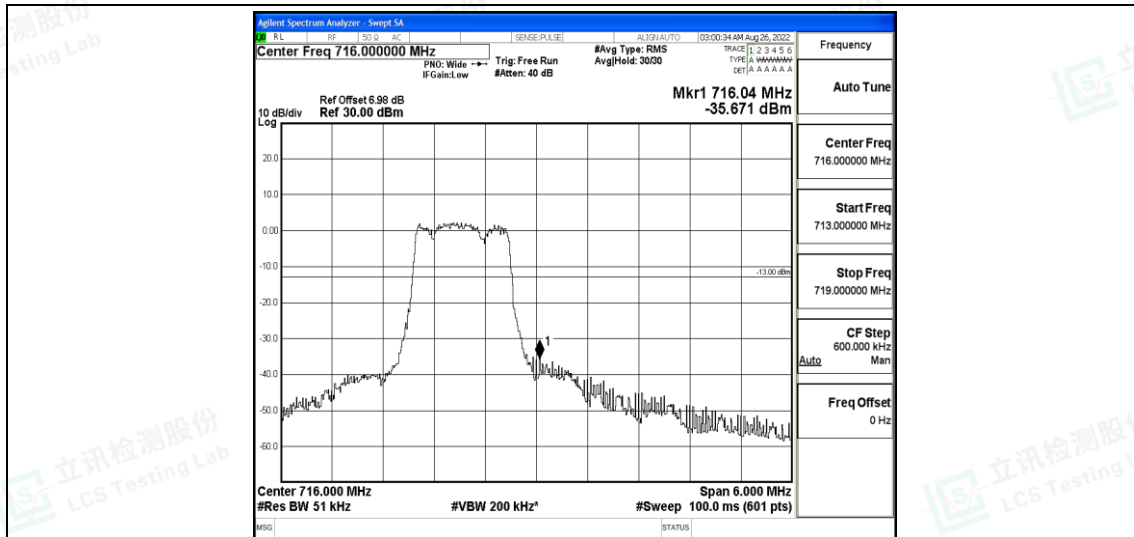
Band12-3MHz-QPSK-23165-6-0-High--35.37-PASS



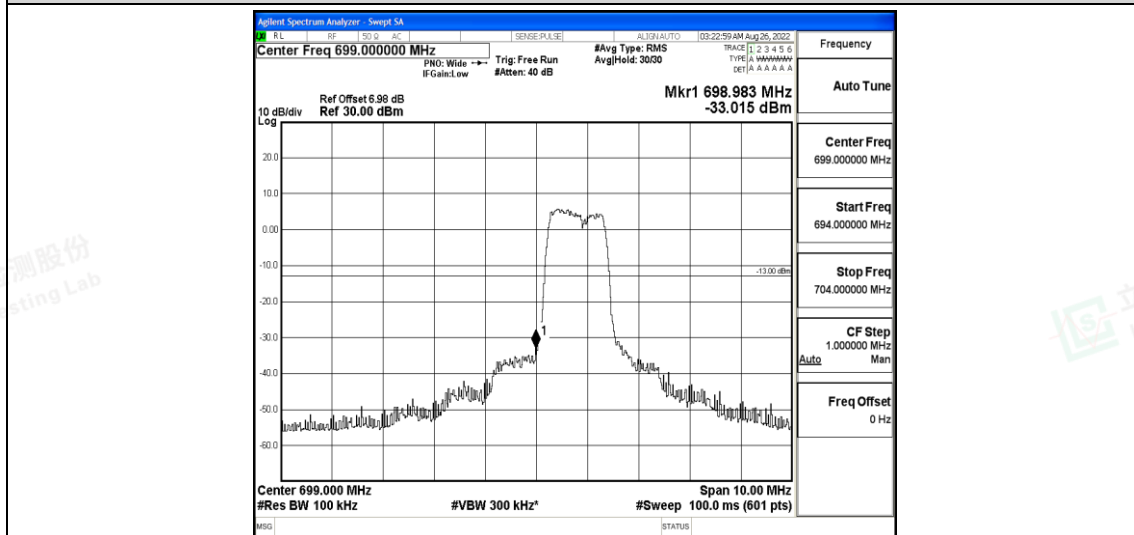
Band12-3MHz-16QAM-23025-6-0-Low--38.57-PASS



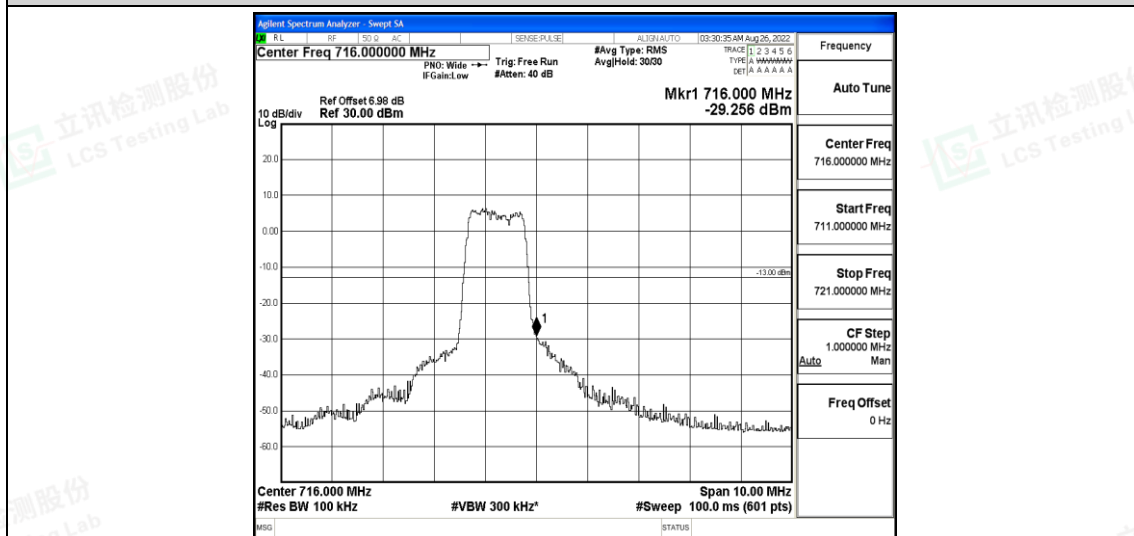
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Band12-3MHz-16QAM-23165-6-0-High--35.67-PASS



Band12-5MHz-QPSK-23035-6-0-Low--33.01-PASS



Band12-5MHz-QPSK-23155-6-0-High--29.26-PASS

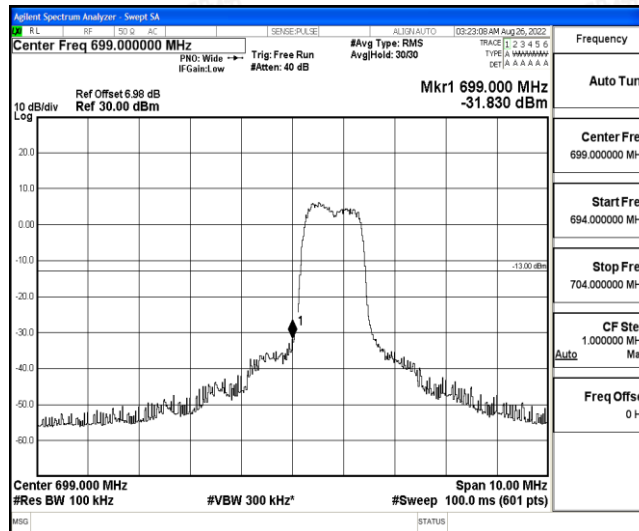


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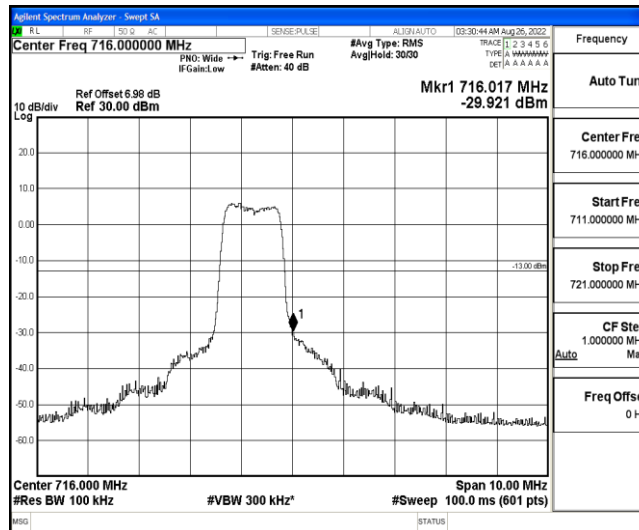
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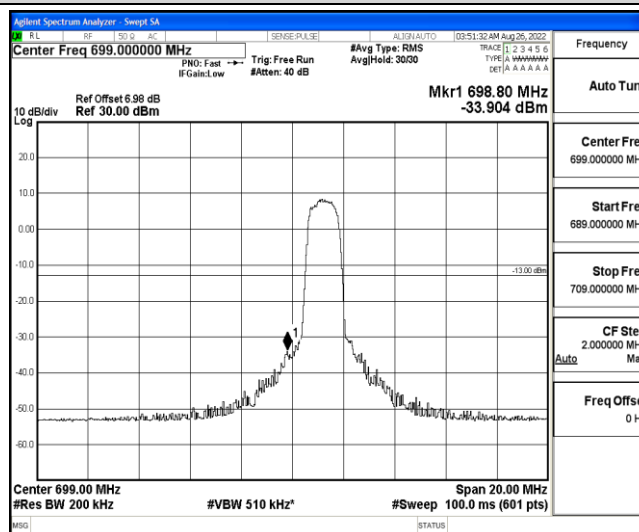
Scan code to check authenticity



Band12-5MHz-16QAM-23035-6-0-Low--31.83-PASS



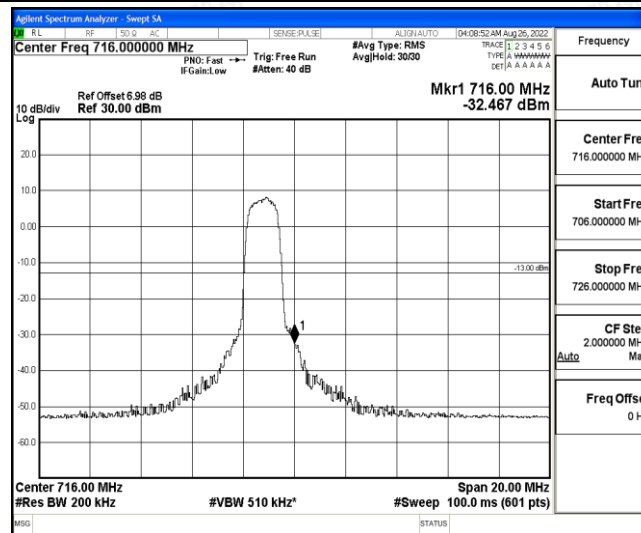
Band12-5MHz-16QAM-23155-6-0-High--29.92-PASS



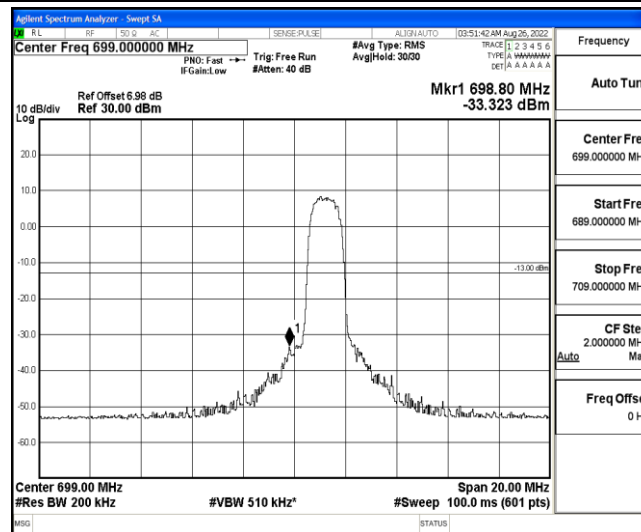
Band12-10MHz-QPSK-23060-6-0-Low--33.90-PASS



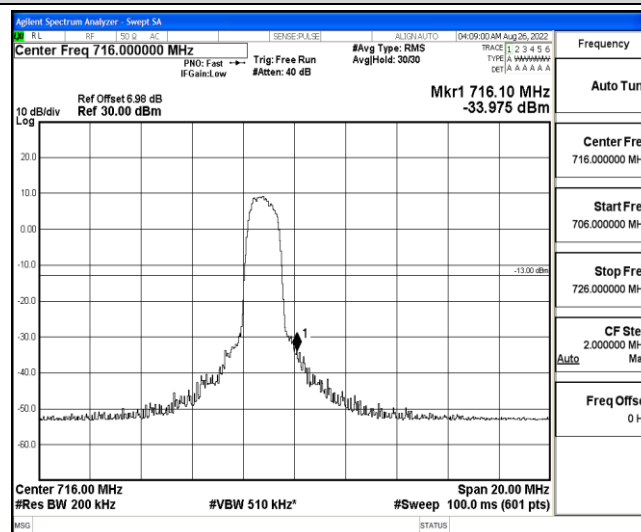
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Band12-10MHz-QPSK-23130-6-0-High--32.47-PASS



Band12-10MHz-16QAM-23060-6-0-Low--33.32-PASS



Band12-10MHz-16QAM-23130-6-0-High--33.97-PASS



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E.5 Conducted Spurious Emission for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	30	1000	-37.53	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	1000	5000	-41.84	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	5000	12000	-59.25	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	12000	26500	-44.44	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	30	1000	-37.82	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	1000	5000	-42.14	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	5000	12000	-58.55	PASS
Band12	1.4MHz	23095	QPSK	1	0	Middle	12000	26500	-44.62	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	30	1000	-37.2	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	1000	5000	-41.93	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	5000	12000	-59.36	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	12000	26500	-44.33	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	30	1000	-37.52	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	1000	5000	-42.97	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	5000	12000	-59.37	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	12000	26500	-44.52	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	30	1000	-37.41	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	1000	5000	-42.43	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	5000	12000	-58.31	PASS
Band12	1.4MHz	23095	16QAM	1	0	Middle	12000	26500	-44.51	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	30	1000	-37.34	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	1000	5000	-42.24	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	5000	12000	-59.47	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	12000	26500	-44.58	PASS
Band12	3MHz	23025	QPSK	1	0	Low	30	1000	-37.14	PASS
Band12	3MHz	23025	QPSK	1	0	Low	1000	5000	-42.17	PASS
Band12	3MHz	23025	QPSK	1	0	Low	5000	12000	-59.17	PASS
Band12	3MHz	23025	QPSK	1	0	Low	12000	26500	-44.47	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	30	1000	-37.49	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	1000	5000	-41.57	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	5000	12000	-58.68	PASS
Band12	3MHz	23095	QPSK	1	0	Middle	12000	26500	-44.47	PASS
Band12	3MHz	23165	QPSK	1	0	High	30	1000	-37.34	PASS



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