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## Appendix B

**E-UTRA BAND 12** 

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## 1. Effective (Isotropic) Radiated Power

## 1.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result	ERP	Limit	Verdict
					(dBm)	(dBm)	(dBm)	
Band12	1.4MHz	QPSK	23017	1RB#0	22.56	18.41	36.98	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.63	18.48	36.98	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.56	18.41	36.98	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.62	18.47	36.98	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.58	18.43	36.98	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.61	18.46	36.98	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.58	17.43	36.98	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.59	18.44	36.98	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.62	18.47	36.98	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.58	18.43	36.98	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.57	18.42	36.98	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.58	18.43	36.98	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.60	18.45	36.98	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.55	17.40	36.98	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.60	18.45	36.98	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.60	18.45	36.98	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.61	18.46	36.98	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.59	18.44	36.98	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.61	18.46	36.98	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.62	18.47	36.98	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.61	17.46	36.98	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	20.66	16.51	36.98	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.54	16.39	36.98	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.62	16.47	36.98	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	20.53	16.38	36.98	PASS
Band12	1.4MHz	64QAM	23017	3RB#1	20.51	16.36	36.98	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	20.51	16.36	36.98	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	19.44	15.29	36.98	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.65	16.50	36.98	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.66	16.51	36.98	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.71	16.56	36.98	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	20.59	16.44	36.98	PASS
Band12	1.4MHz	64QAM	23095	3RB#1	20.57	16.42	36.98	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	20.61	16.46	36.98	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.55	15.40	36.98	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.65	16.50	36.98	PASS
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Band12	1.4MHz	64QAM	23173	1RB#2	20.71	16.56	36.98	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.63	16.48	36.98	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	20.60	16.45	36.98	PASS
Band12	1.4MHz	64QAM	23173	3RB#1	20.63	16.48	36.98	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	20.59	16.44	36.98	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.58	15.43	36.98	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.57	17.42	36.98	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.66	17.51	36.98	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.70	17.55	36.98	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.53	17.38	36.98	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.54	17.39	36.98	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.55	17.40	36.98	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.55	16.40	36.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.67	17.52	36.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.66	17.51	36.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.65	17.50	36.98	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.58	17.43	36.98	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.51	17.36	36.98	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.59	17.44	36.98	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.55	16.40	36.98	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.72	17.57	36.98	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.78	17.63	36.98	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.72	17.57	36.98	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.61	17.46	36.98	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.69	17.54	36.98	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.62	17.47	36.98	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.54	16.39	36.98	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.55	18.40	36.98	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.57	18.42	36.98	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.54	18.39	36.98	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.54	17.39	36.98	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.60	17.45	36.98	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.58	17.43	36.98	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.58	17.43	36.98	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.56	18.41	36.98	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.61	18.46	36.98	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.54	18.39	36.98	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.57	17.42	36.98	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.59	17.44	36.98	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.58	17.43	36.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.62	17.47	36.98	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.60	18.45	36.98	PASS



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Band12	3MHz	QPSK	23165	1RB#8	22.66	18.51	36.98	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.58	18.43	36.98	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.55	17.40	36.98	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.61	17.46	36.98	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.56	17.41	36.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.62	17.47	36.98	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.68	16.53	36.98	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.74	16.59	36.98	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.62	16.47	36.98	PASS
Band12	3MHz	64QAM	23025	8RB#0	19.46	15.31	36.98	PASS
Band12	3MHz	64QAM	23025	8RB#4	19.50	15.35	36.98	PASS
Band12	3MHz	64QAM	23025	8RB#7	19.53	15.38	36.98	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.49	15.34	36.98	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.70	16.55	36.98	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.80	16.65	36.98	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.71	16.56	36.98	PASS
Band12	3MHz	64QAM	23095	8RB#0	19.55	15.40	36.98	PASS
Band12	3MHz	64QAM	23095	8RB#4	19.56	15.41	36.98	PASS
Band12	3MHz	64QAM	23095	8RB#7	19.56	15.41	36.98	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.56	15.41	36.98	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.76	16.61	36.98	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.82	16.67	36.98	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.64	16.49	36.98	PASS
Band12	3MHz	64QAM	23165	8RB#0	19.51	15.36	36.98	PASS
Band12	3MHz	64QAM	23165	8RB#4	19.55	15.40	36.98	PASS
Band12	3MHz	64QAM	23165	8RB#7	19.51	15.36	36.98	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.53	15.38	36.98	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.66	17.51	36.98	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.70	17.55	36.98	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.59	17.44	36.98	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.58	16.43	36.98	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.52	16.37	36.98	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.48	16.33	36.98	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.46	16.31	36.98	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.59	17.44	36.98	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.63	17.48	36.98	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.70	17.55	36.98	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.55	16.40	36.98	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.53	16.38	36.98	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.57	16.42	36.98	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.50	16.35	36.98	PASS
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Band12	3MHz	16QAM	23165	1RB#8	21.80	17.65	36.98	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.79	17.64	36.98	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.58	16.43	36.98	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.52	16.37	36.98	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.47	16.32	36.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.52	16.37	36.98	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.54	18.39	36.98	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.58	18.43	36.98	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.50	18.35	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.58	17.43	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.58	17.43	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.56	17.41	36.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.55	17.40	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.58	18.43	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.68	18.53	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.58	18.43	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.61	17.46	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.58	17.43	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.62	17.47	36.98	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.61	17.46	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.61	18.46	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.64	18.49	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.55	18.40	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.60	17.45	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.65	17.50	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.59	17.44	36.98	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.61	17.46	36.98	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.57	16.42	36.98	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.68	16.53	36.98	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.58	16.43	36.98	PASS
Band12	5MHz	64QAM	23035	12RB#0	19.41	15.26	36.98	PASS
Band12	5MHz	64QAM	23035	12RB#6	19.52	15.37	36.98	PASS
Band12	5MHz	64QAM	23035	12RB#13	19.44	15.29	36.98	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.44	15.29	36.98	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.62	16.47	36.98	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.73	16.58	36.98	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.59	16.44	36.98	PASS
Band12	5MHz	64QAM	23095	12RB#0	19.48	15.33	36.98	PASS
Band12	5MHz	64QAM	23095	12RB#6	19.54	15.39	36.98	PASS
Band12	5MHz	64QAM	23095	12RB#13	19.49	15.34	36.98	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.49	15.34	36.98	PASS



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Band12	5MHz	64QAM	23155	1RB#12	20.77	16.62	36.98	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.61	16.46	36.98	PASS
Band12	5MHz	64QAM	23155	12RB#0	19.57	15.42	36.98	PASS
Band12	5MHz	64QAM	23155	12RB#6	19.61	15.46	36.98	PASS
Band12	5MHz	64QAM	23155	12RB#13	19.55	15.40	36.98	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.60	15.45	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.74	17.59	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.74	17.59	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.56	17.41	36.98	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.52	16.37	36.98	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.48	16.33	36.98	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.47	16.32	36.98	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.51	16.36	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.69	17.54	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.75	17.60	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.66	17.51	36.98	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.51	16.36	36.98	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.54	16.39	36.98	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.53	16.38	36.98	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.48	16.33	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.69	17.54	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.83	17.68	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.77	17.62	36.98	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.58	16.43	36.98	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.53	16.38	36.98	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.51	16.36	36.98	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.50	16.35	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.50	18.35	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.59	18.44	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.41	18.26	36.98	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.53	17.38	36.98	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.60	17.45	36.98	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.53	17.38	36.98	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.54	17.39	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.48	18.33	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.57	18.42	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.48	18.33	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.55	17.40	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.55	17.40	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.57	17.42	36.98	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.56	17.41	36.98	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.47	18.32	36.98	PASS



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Band12	10MHz	QPSK	23130	1RB#24	22.61	18.46	36.98	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.50	18.35	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.64	17.49	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.61	17.46	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.51	17.36	36.98	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.54	17.39	36.98	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.55	16.40	36.98	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.65	16.50	36.98	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.55	16.40	36.98	PASS
Band12	10MHz	64QAM	23060	25RB#0	19.47	15.32	36.98	PASS
Band12	10MHz	64QAM	23060	25RB#12	19.43	15.28	36.98	PASS
Band12	10MHz	64QAM	23060	25RB#25	19.52	15.37	36.98	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.46	15.31	36.98	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.58	16.43	36.98	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.69	16.54	36.98	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.55	16.40	36.98	PASS
Band12	10MHz	64QAM	23095	25RB#0	19.46	15.31	36.98	PASS
Band12	10MHz	64QAM	23095	25RB#12	19.51	15.36	36.98	PASS
Band12	10MHz	64QAM	23095	25RB#25	19.49	15.34	36.98	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.47	15.32	36.98	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.54	16.39	36.98	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.74	16.59	36.98	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.49	16.34	36.98	PASS
Band12	10MHz	64QAM	23130	25RB#0	19.52	15.37	36.98	PASS
Band12	10MHz	64QAM	23130	25RB#12	19.55	15.40	36.98	PASS
Band12	10MHz	64QAM	23130	25RB#25	19.56	15.41	36.98	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.51	15.36	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.62	17.47	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.77	17.62	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.60	17.45	36.98	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.48	16.33	36.98	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.44	16.29	36.98	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.50	16.35	36.98	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.49	16.34	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.66	17.51	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.65	17.50	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.54	17.39	36.98	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.46	16.31	36.98	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.50	16.35	36.98	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.51	16.36	36.98	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.42	16.27	36.98	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.62	17.47	36.98	PASS

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Band12	10MHz	16QAM	23130	1RB#24	21.70	17.55	36.98	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.60	17.45	36.98	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.55	16.40	36.98	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.56	16.41	36.98	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.46	16.31	36.98	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.52	16.37	36.98	PASS

#### Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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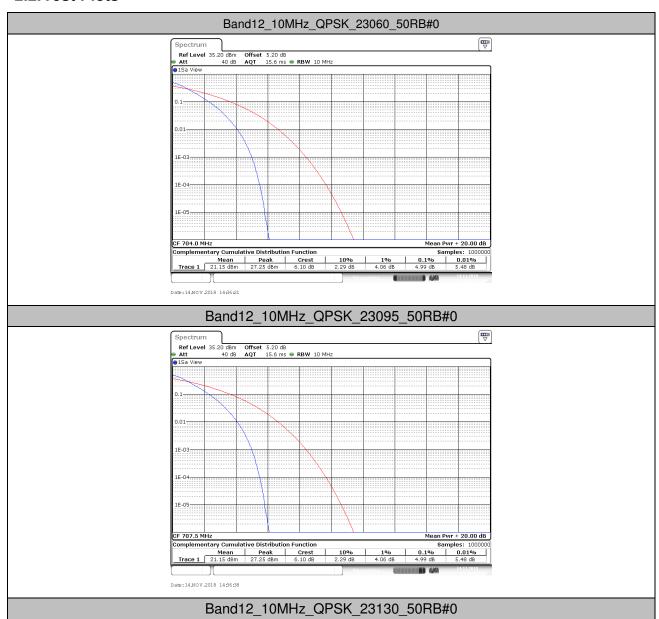
## 2. Peak-to-Average Ratio(CCDF)

## 2.1.Test Result

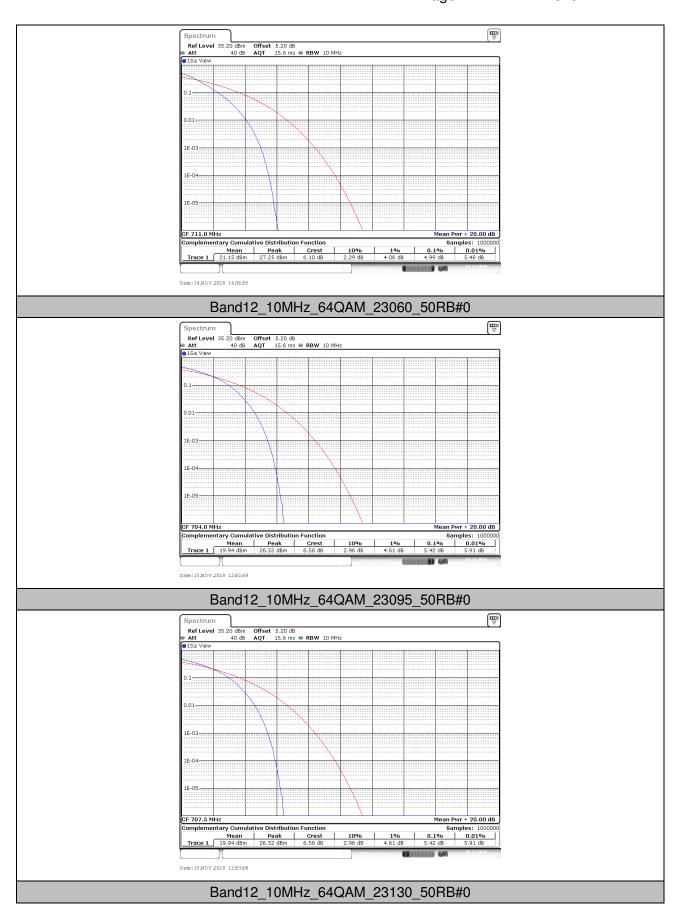
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.99	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.99	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.99	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	5.42	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	5.42	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	4.99	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	4.99	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	4.99	13	PASS

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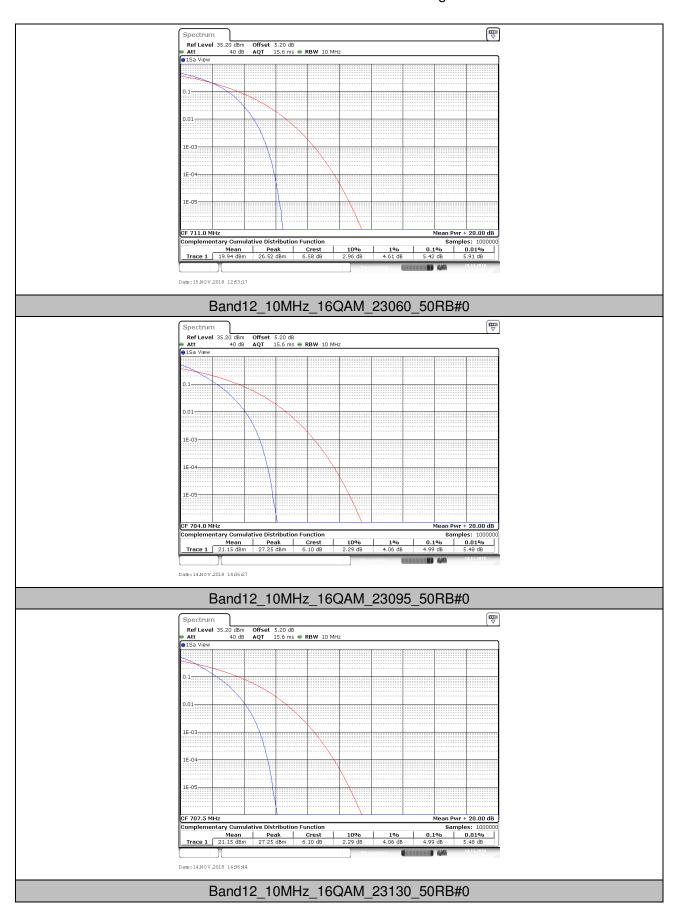
## 2.2. Test Plots



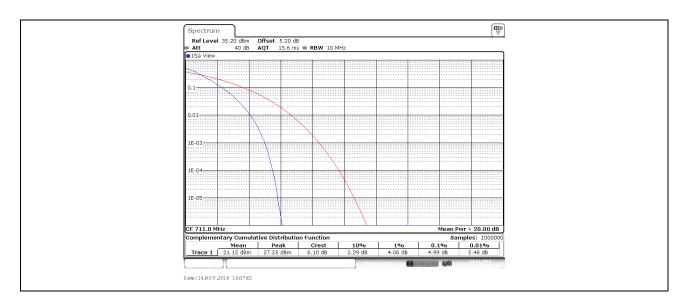
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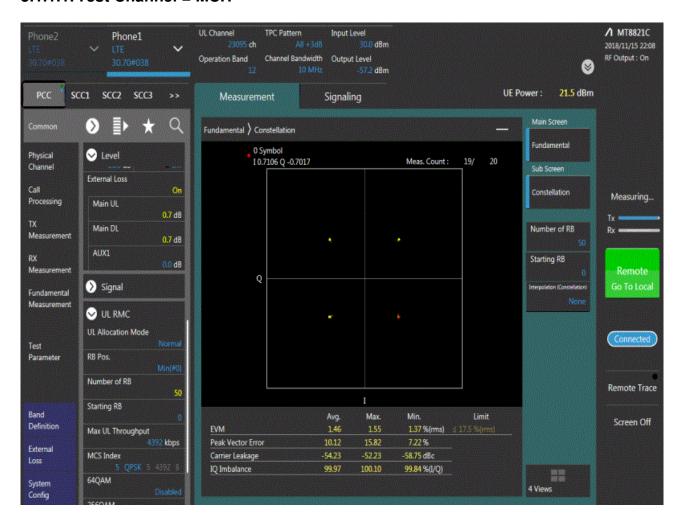
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## 3. Modulation Characteristics

3.1.Test BAND = LTE BAND12

3.1.1. Test Mode = LTE /TM1 10MHz

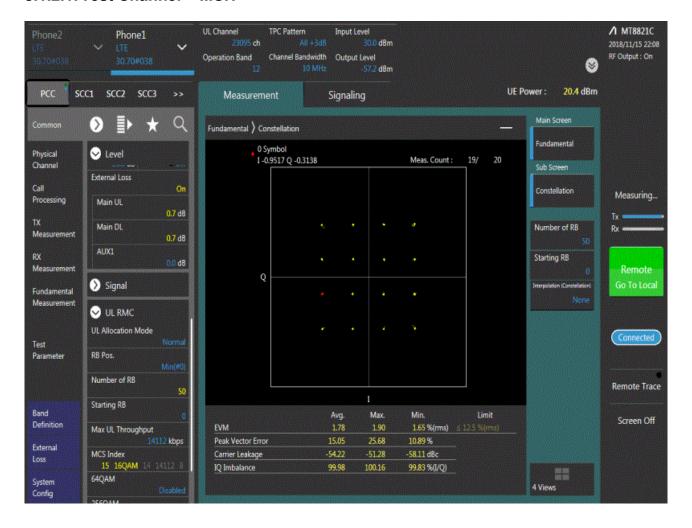
### 3.1.1.1. Test Channel = MCH



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## 3.1.2. Test Mode = LTE /TM2 10MHz

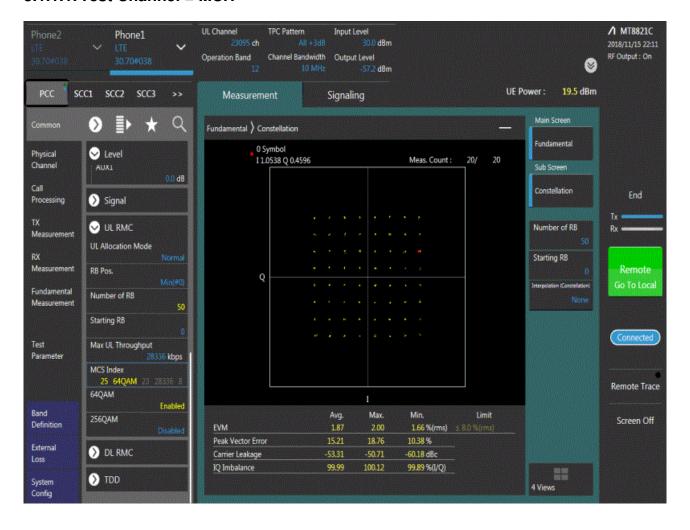
## 3.1.2.1. Test Channel = MCH



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## 3.1.1. Test Mode = LTE /TM3 10MHz

## 3.1.1.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

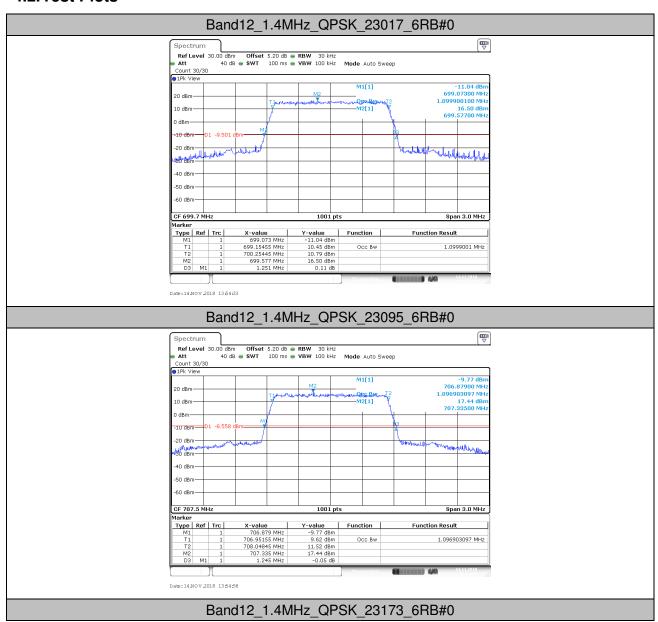
## 4.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.099	1.251	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.097	1.245	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.245	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.097	1.245	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.099	1.248	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.106	1.248	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.103	1.245	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.099	1.248	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.248	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.703	2.976	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.703	2.970	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.703	2.976	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.697	2.958	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.697	2.976	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.697	2.982	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.703	2.970	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.691	2.988	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	2.982	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.870	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.890	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.880	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.466	4.880	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.486	4.910	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.466	4.890	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.900	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.476	4.940	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.940	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.931	9.700	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.931	9.820	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.800	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.911	9.800	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.971	9.780	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.951	9.780	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.931	9.740	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.971	9.840	PASS

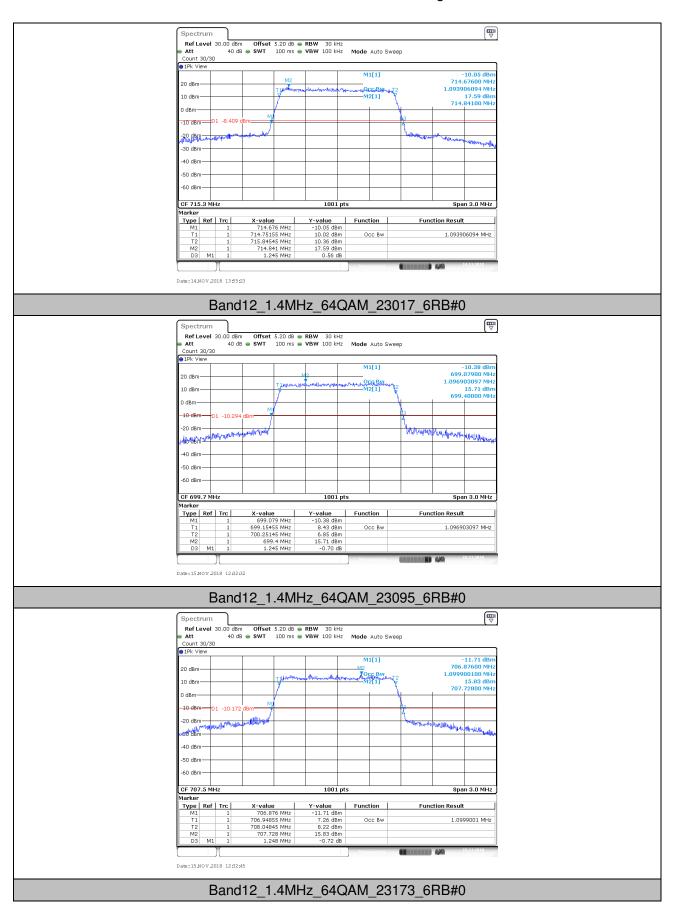
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Band12 1	0MHz 16QAM	23130	50RB#0	8.931	9.760	PASS
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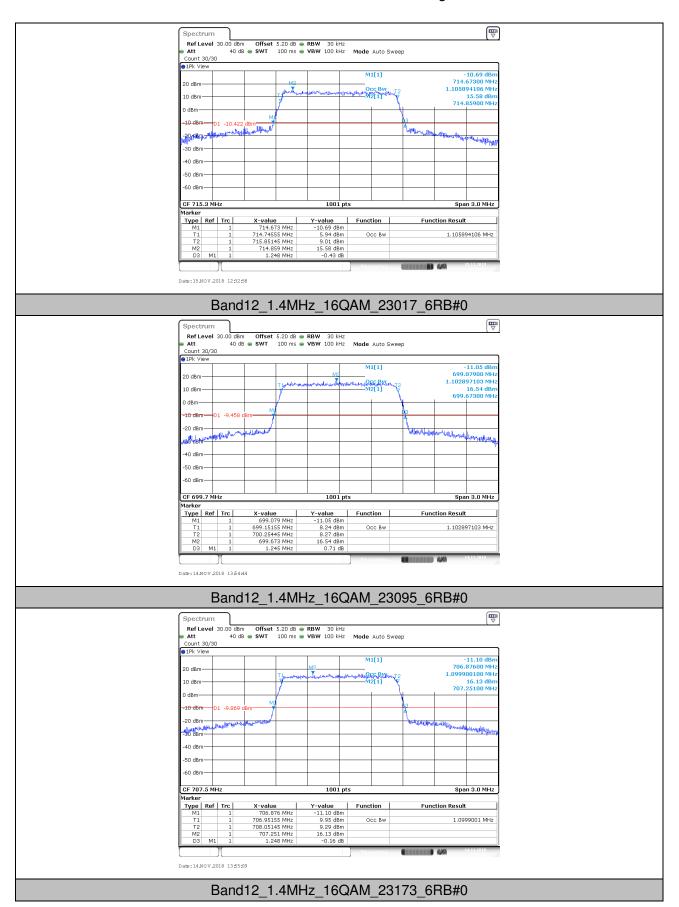
### 4.2. Test Plots



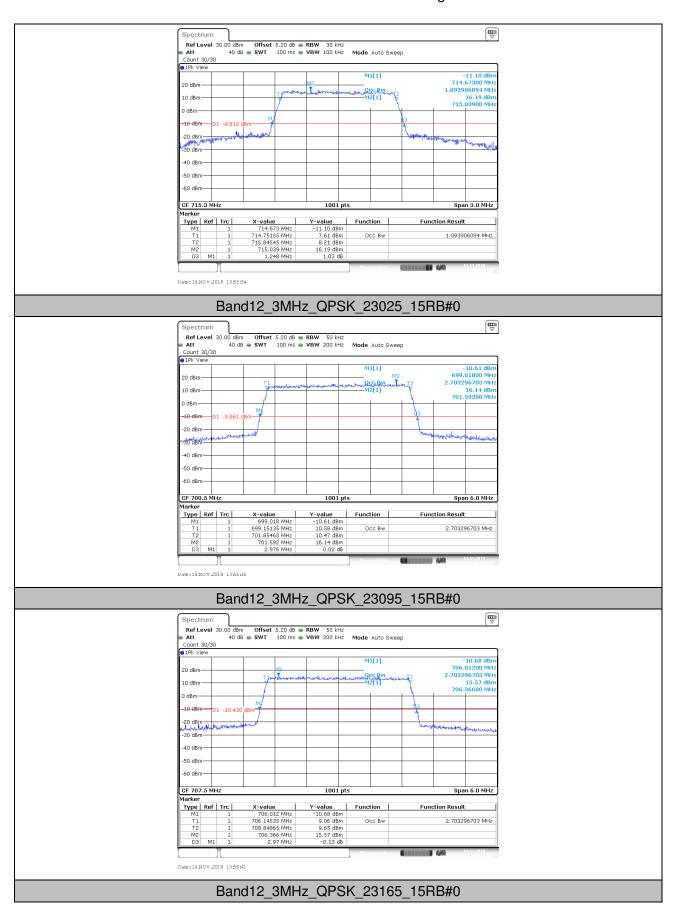
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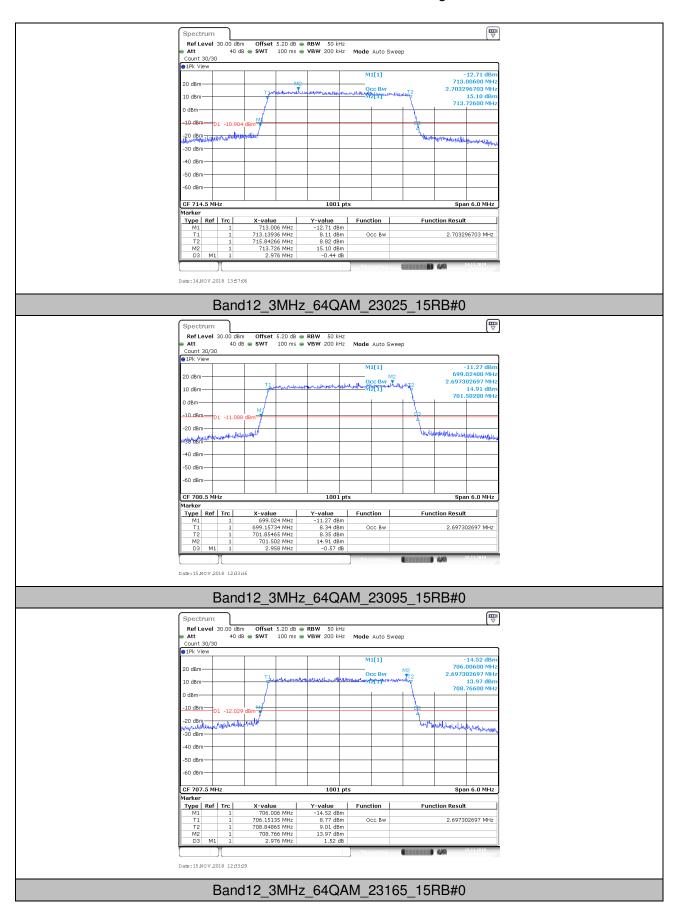
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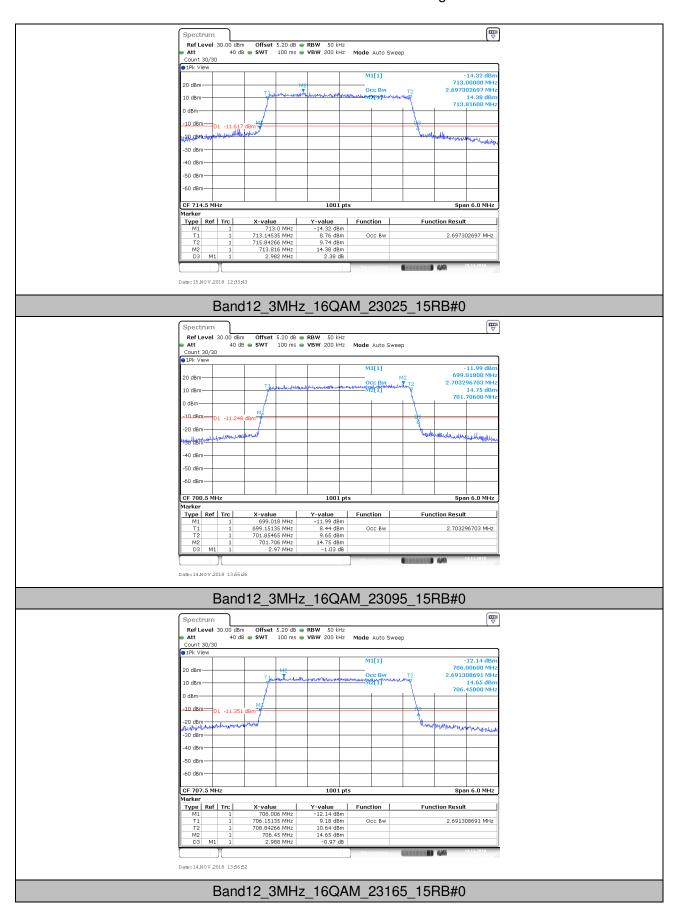
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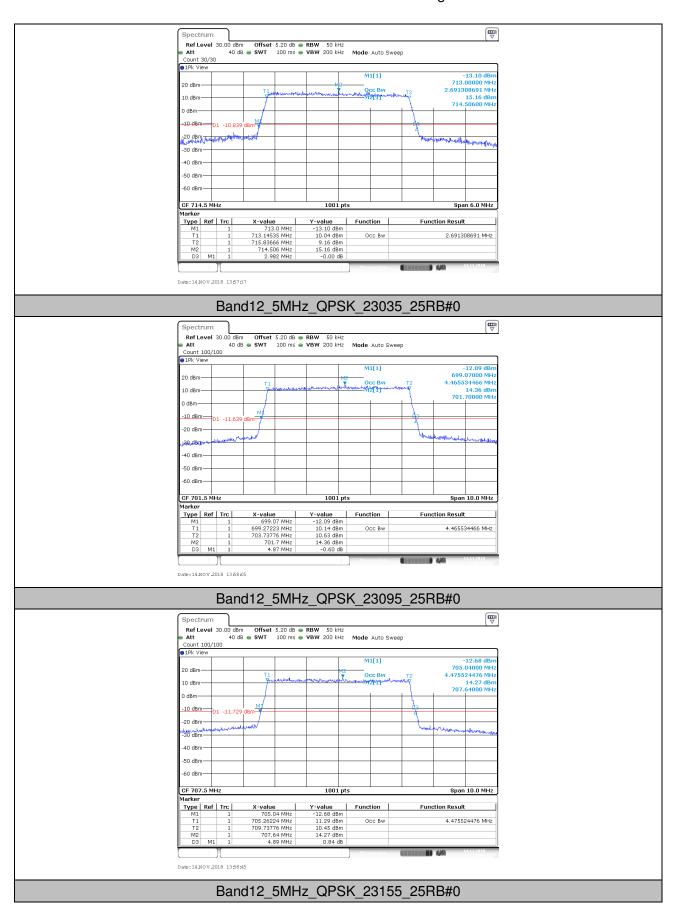
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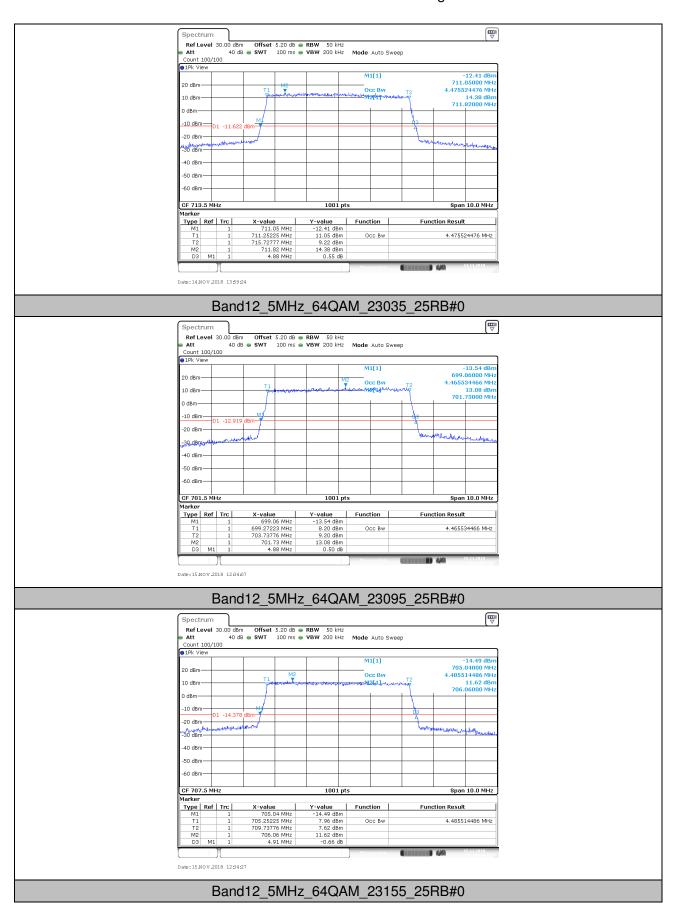
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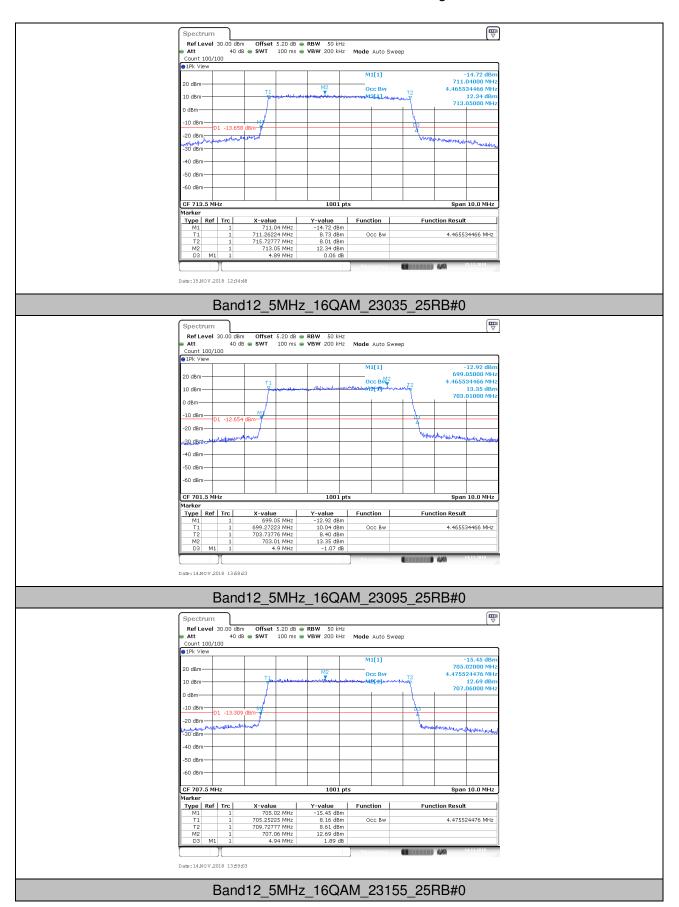
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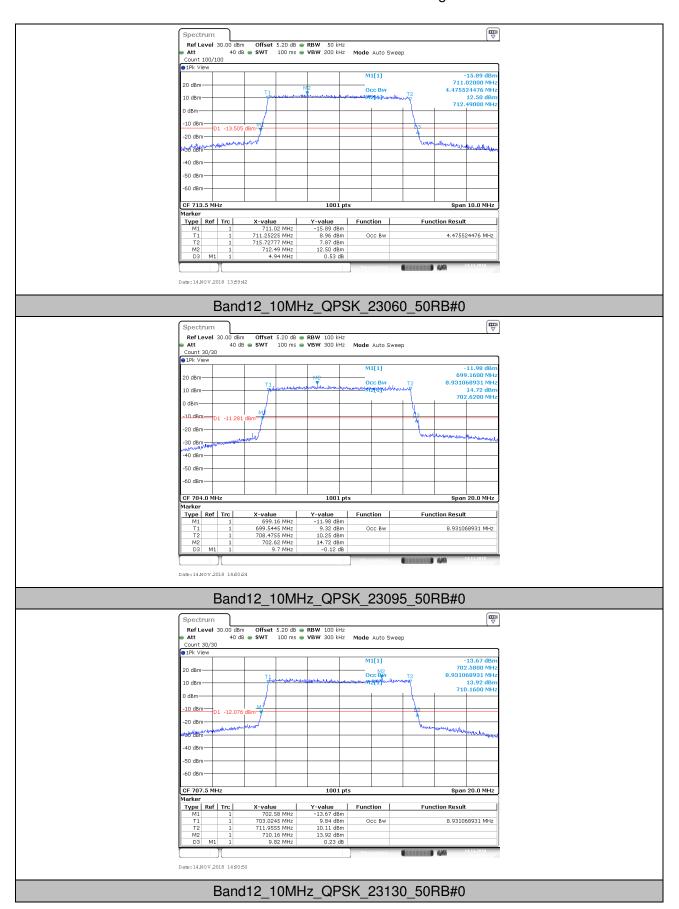
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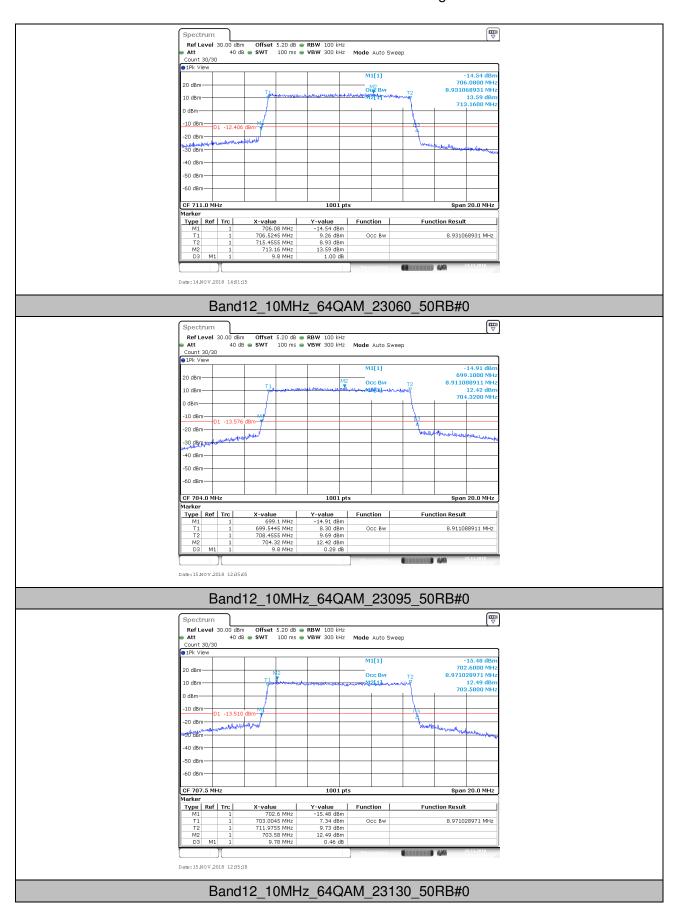
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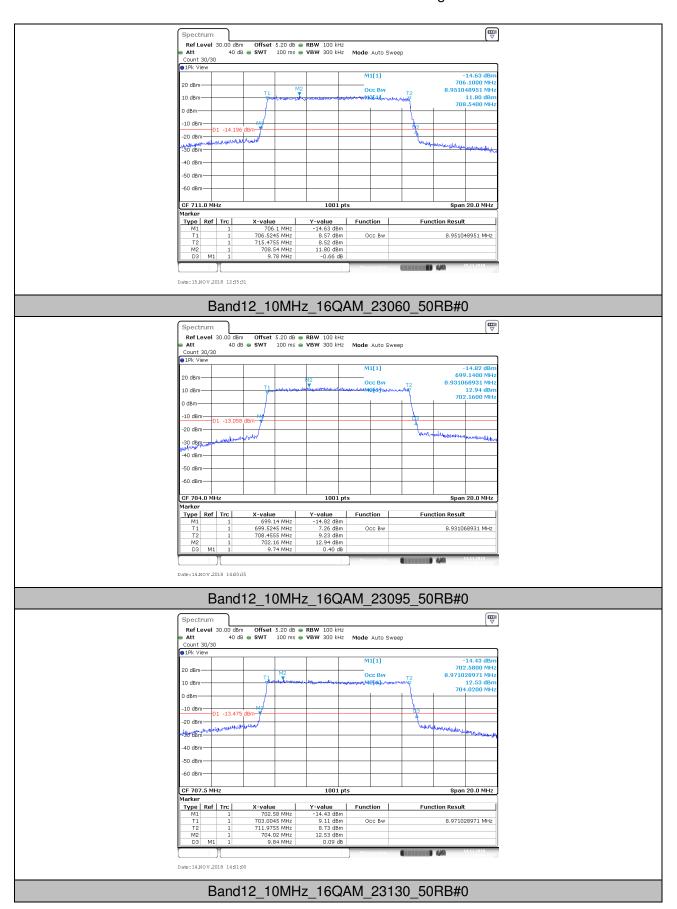
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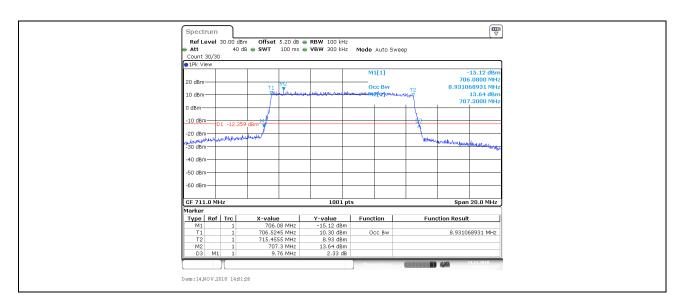
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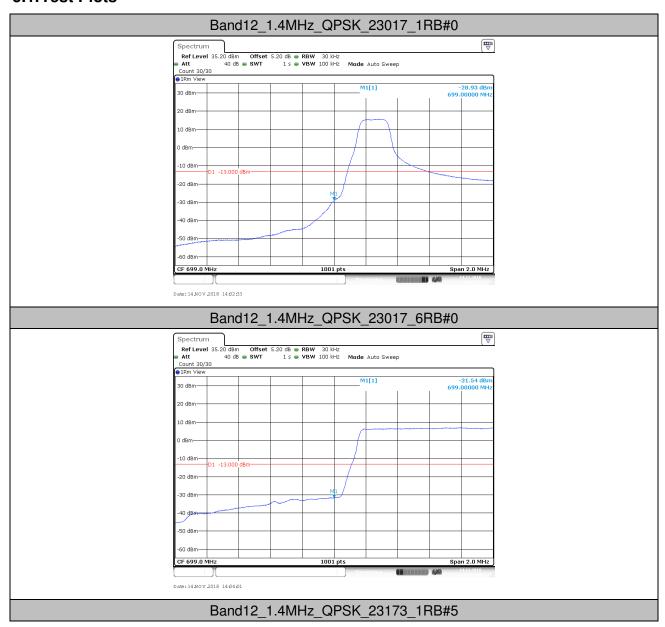
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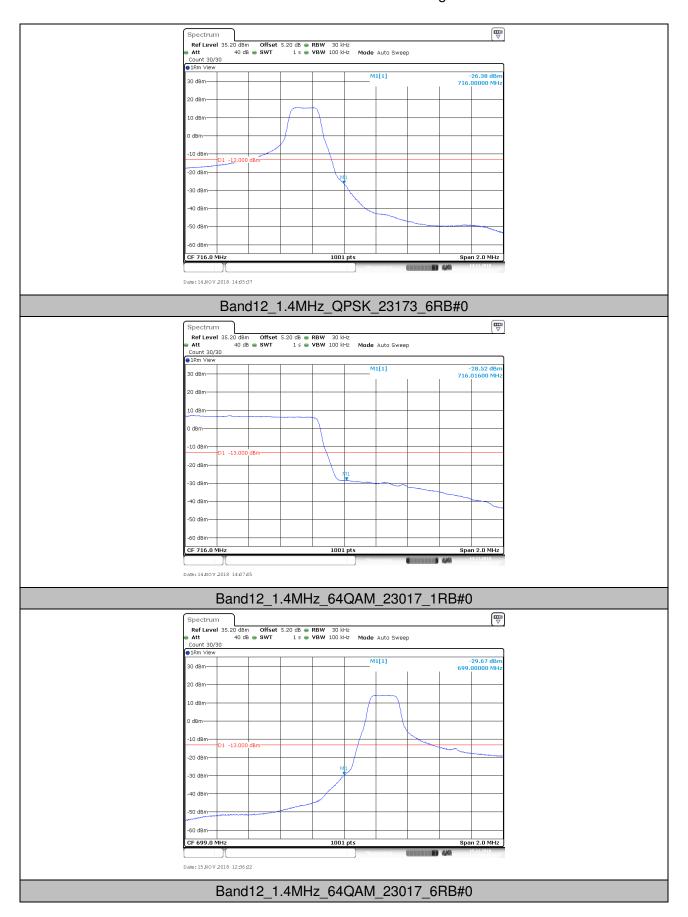
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## 5. Band Edge Compliance

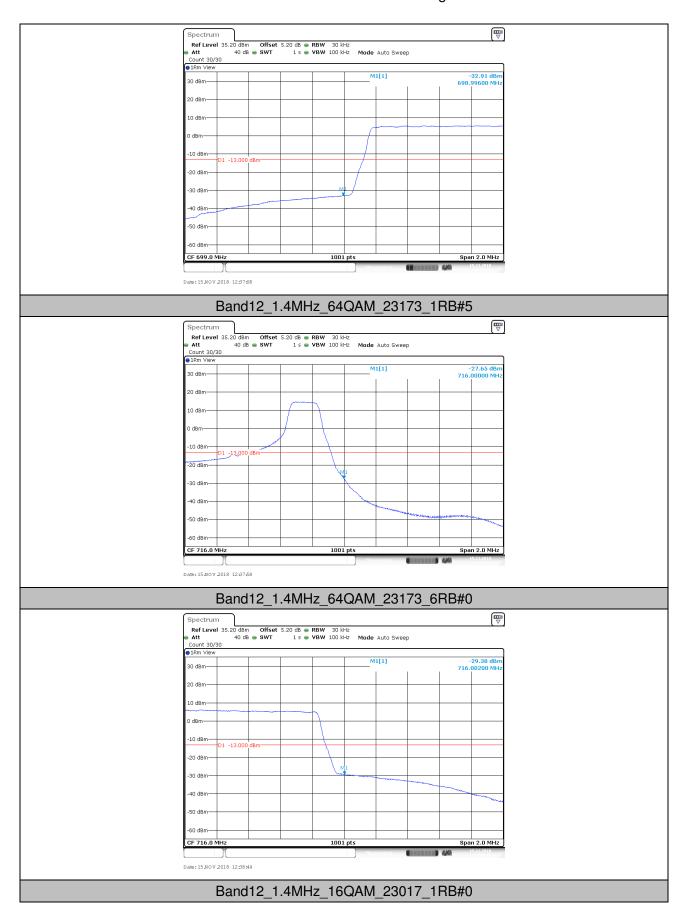
## 5.1. Test Plots



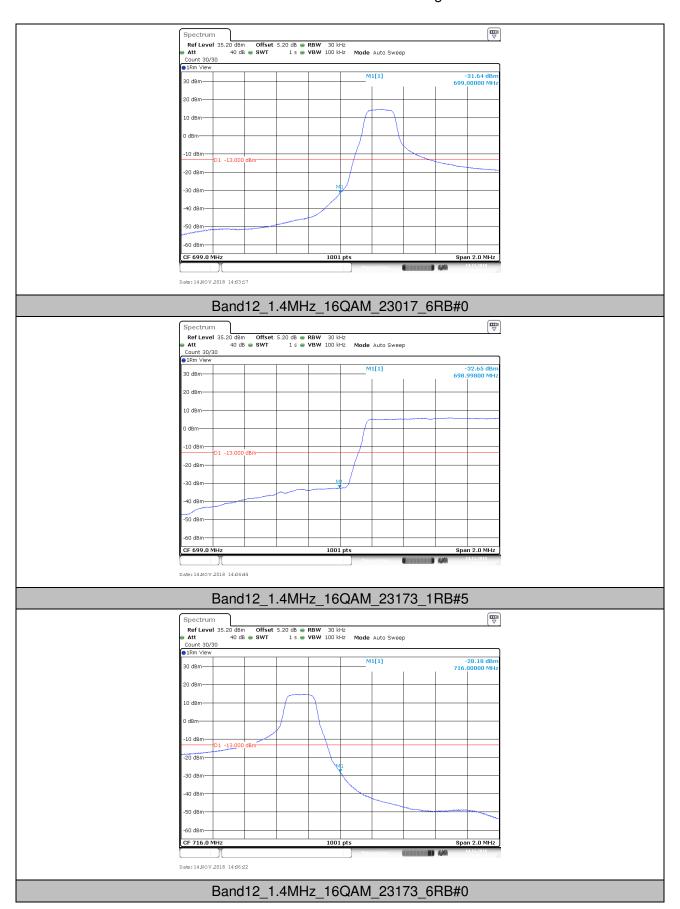
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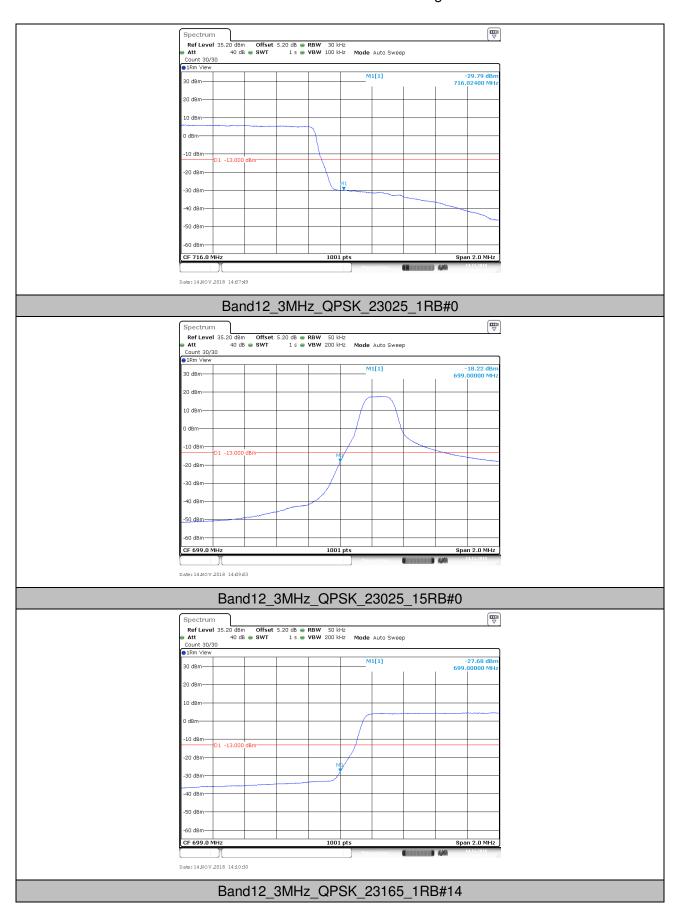
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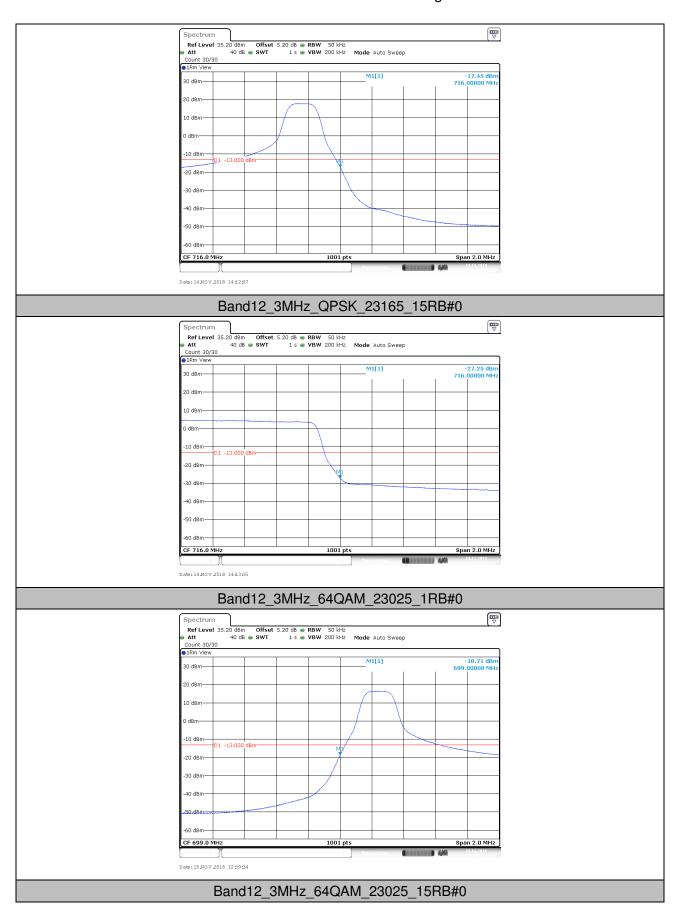
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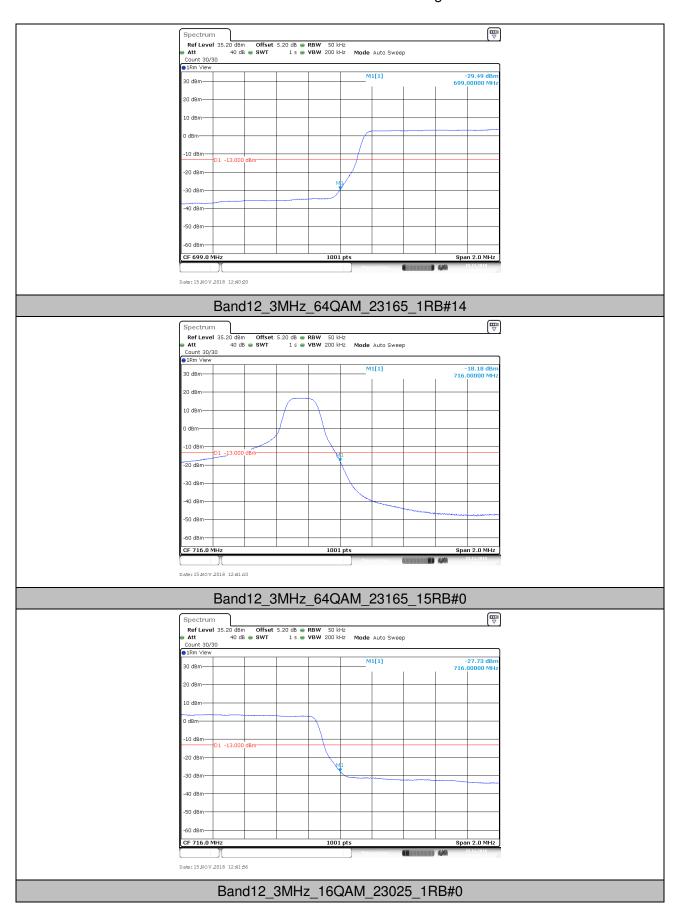
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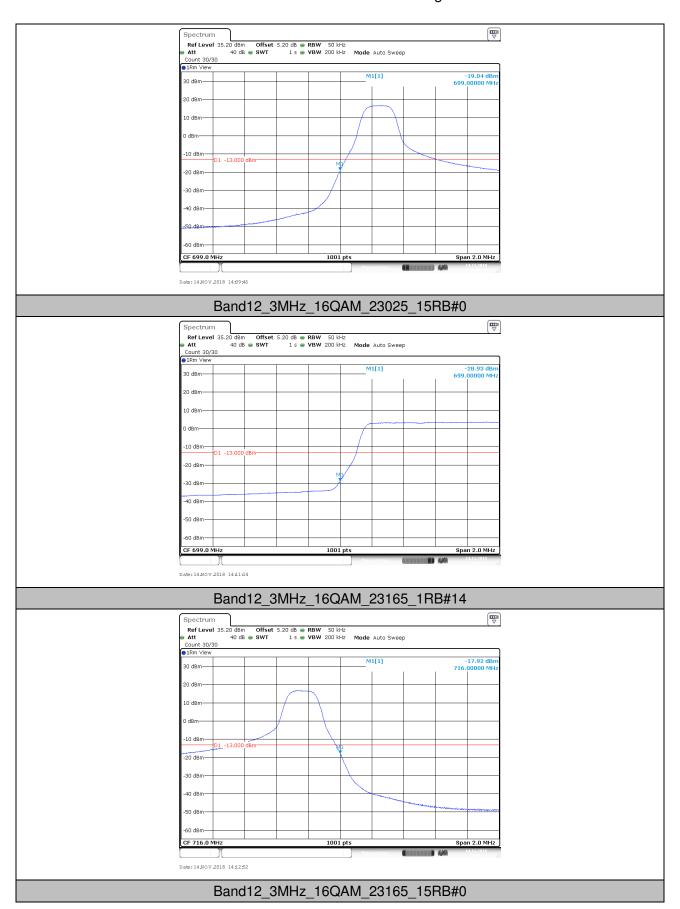
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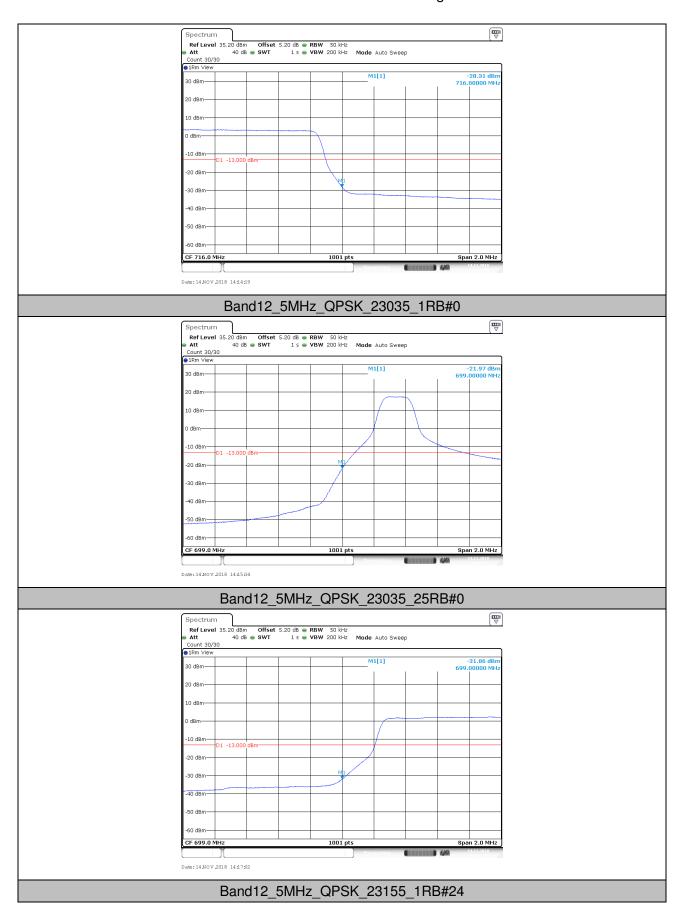
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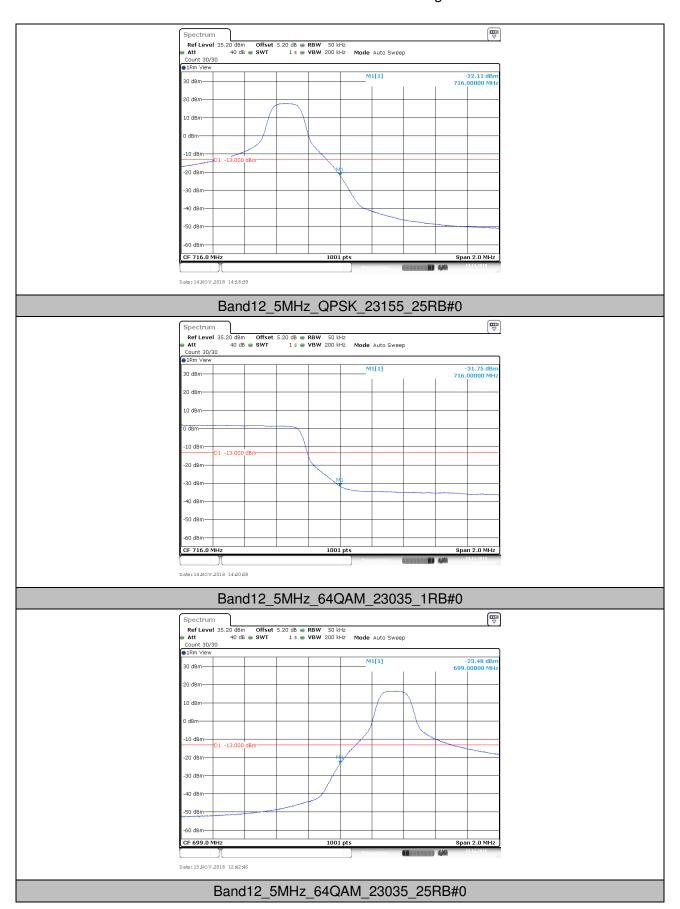
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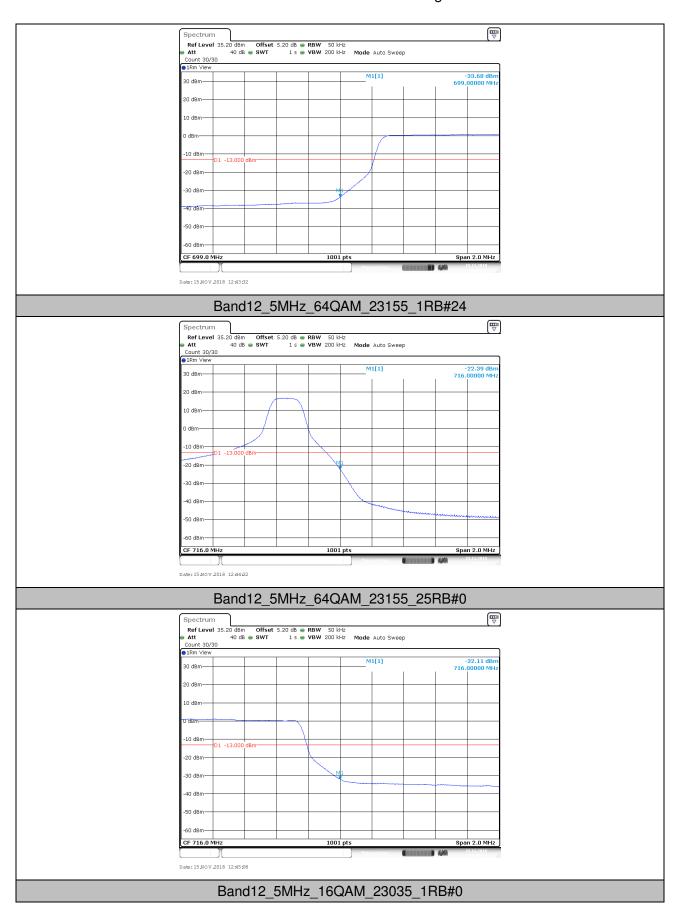
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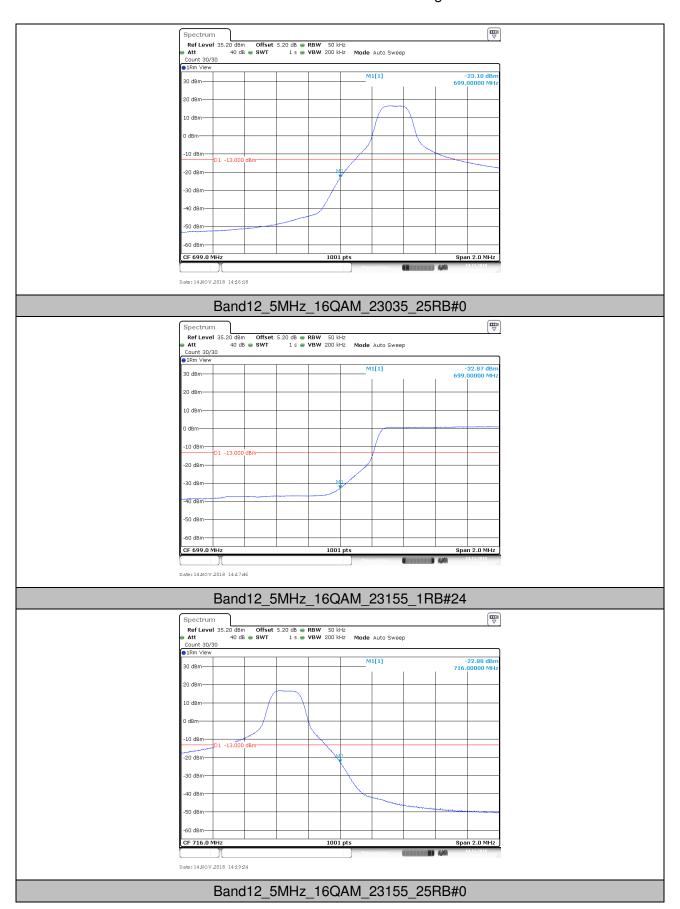
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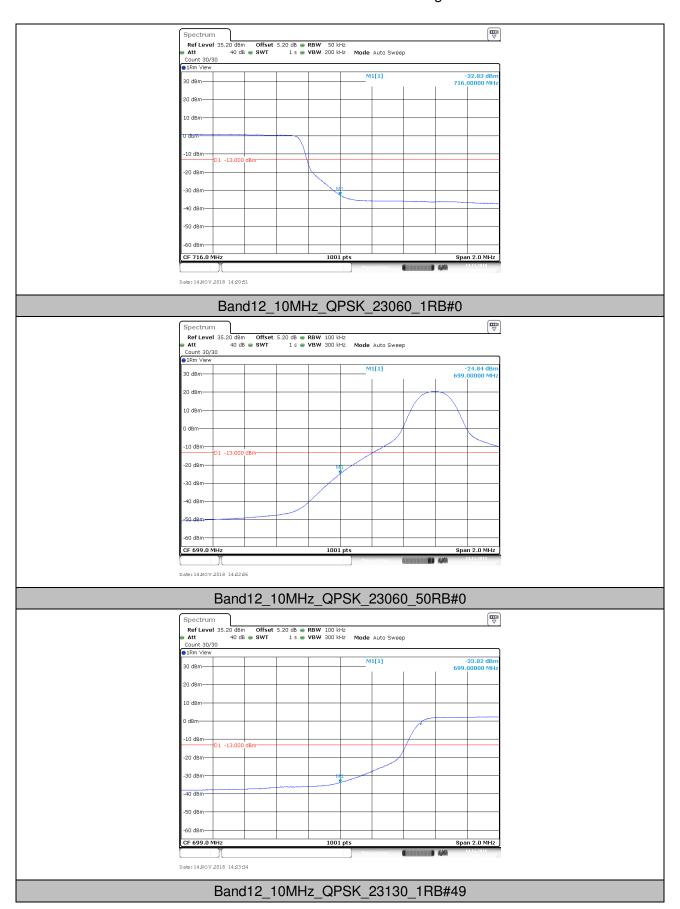
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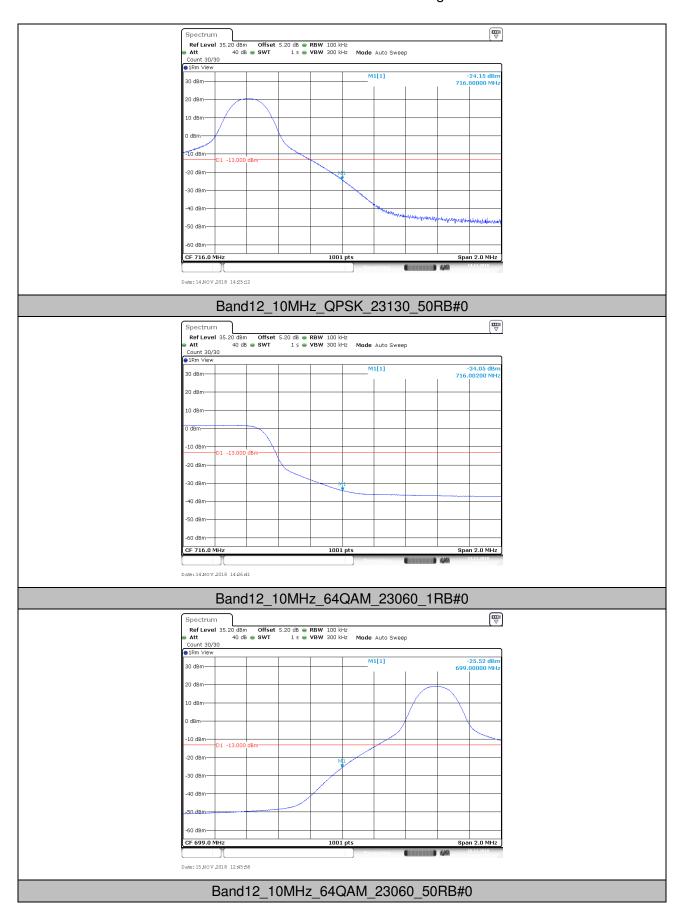
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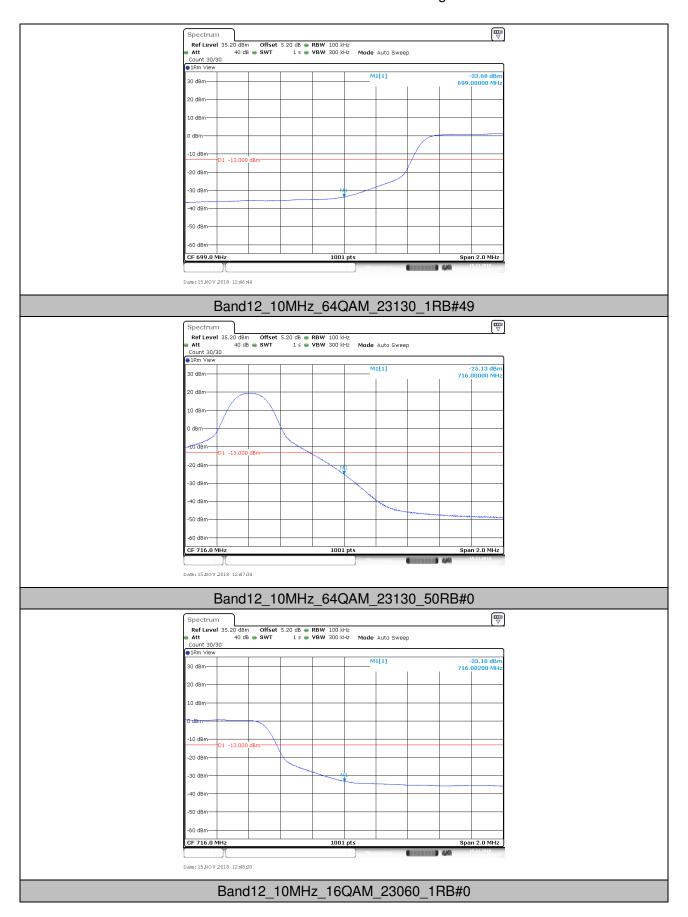
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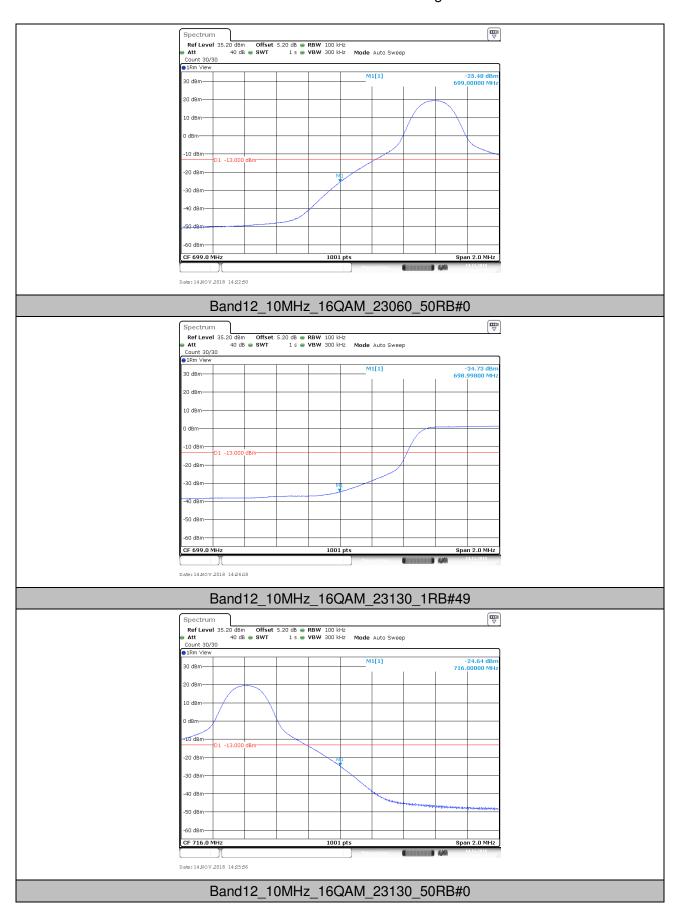
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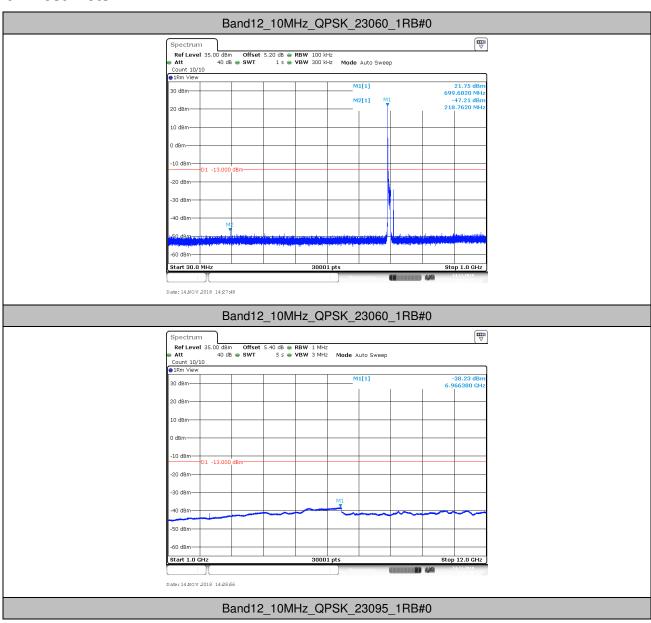
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## 6. Spurious Emission at Antenna Terminal

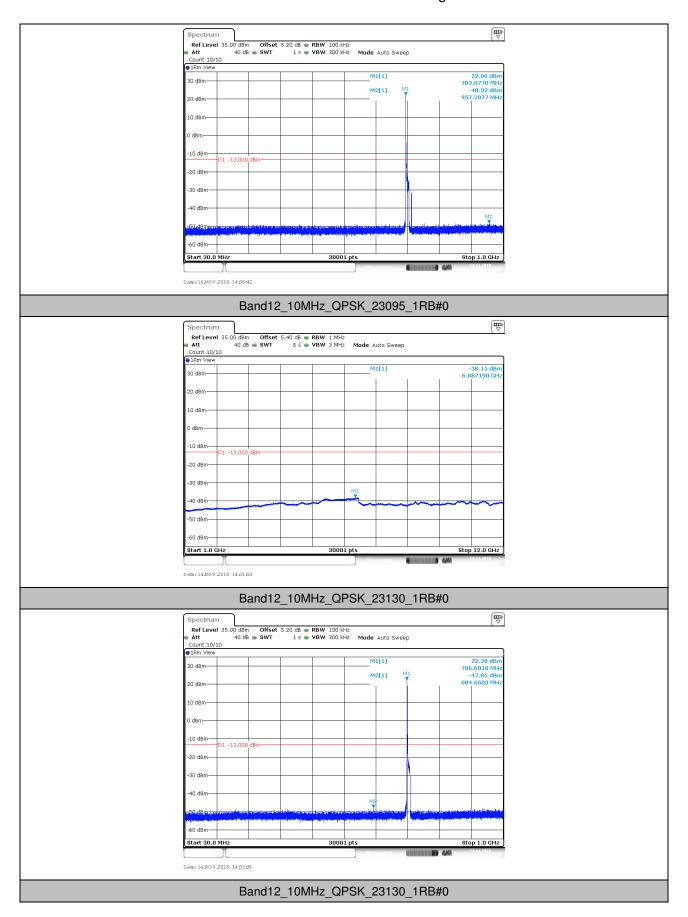
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (Span / RBW)" with k = 4 \* (Span / RBW) with k = 4 \* (Span / RBW).

Remark2: only the worst case data displayed in this report.

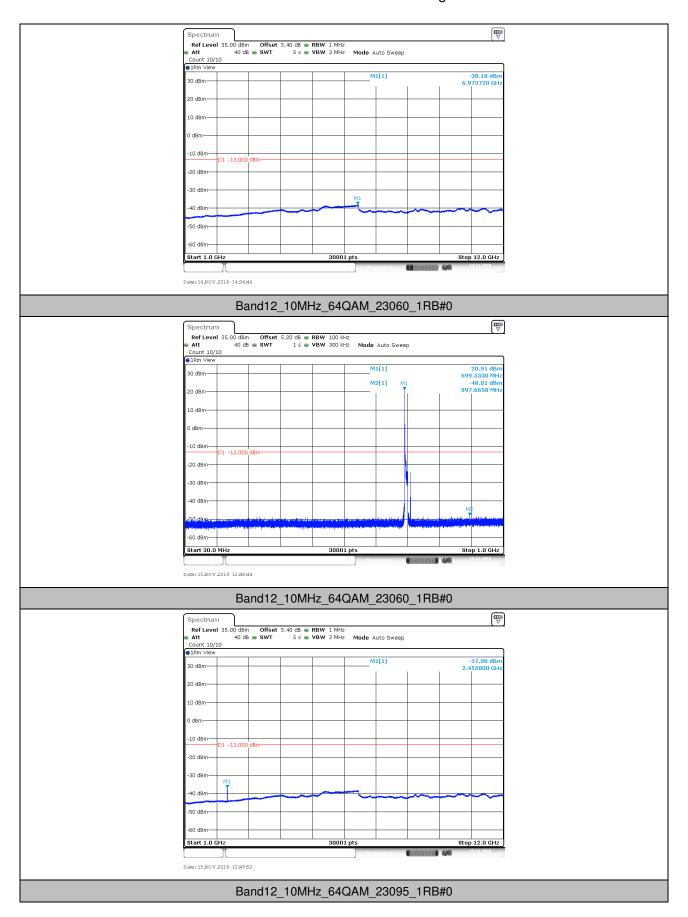
#### 6.1. Test Plots



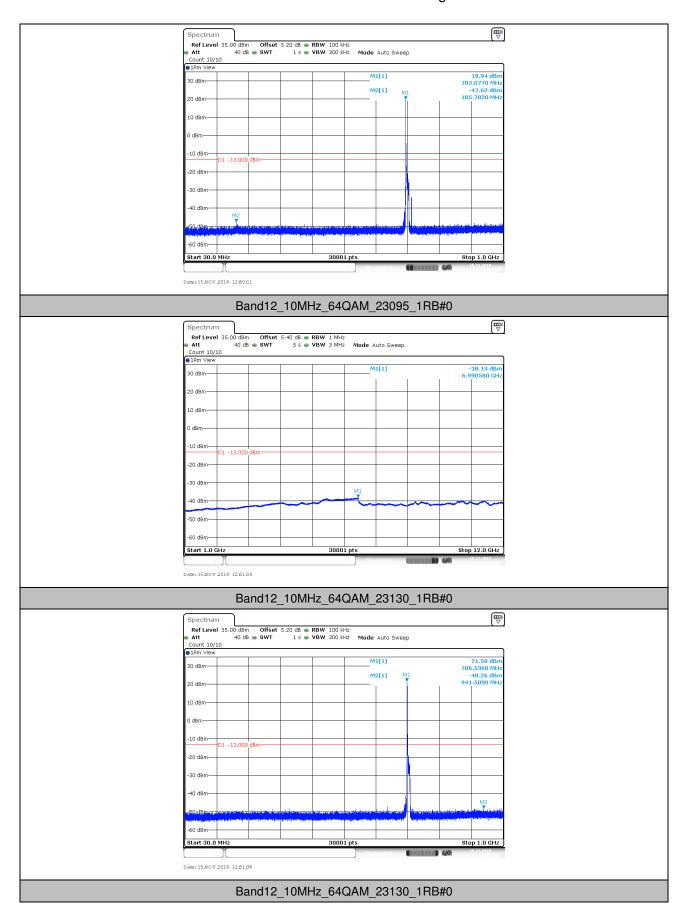
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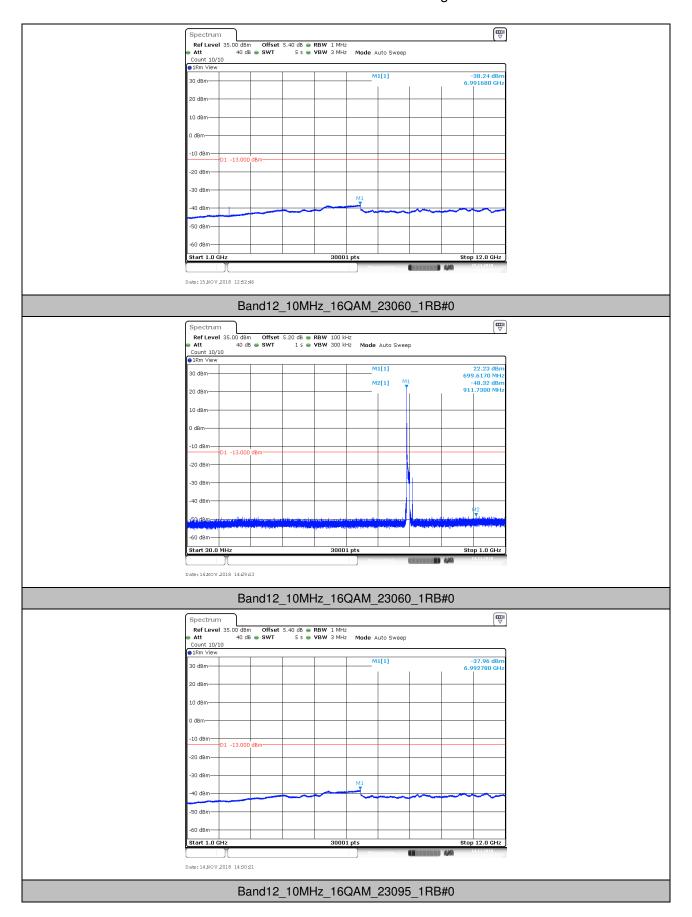
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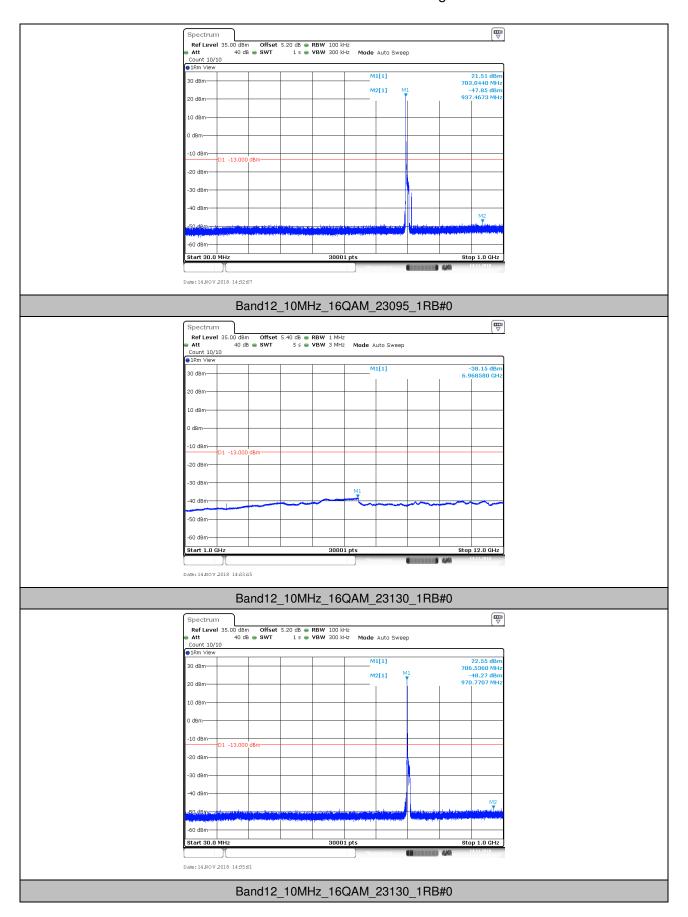
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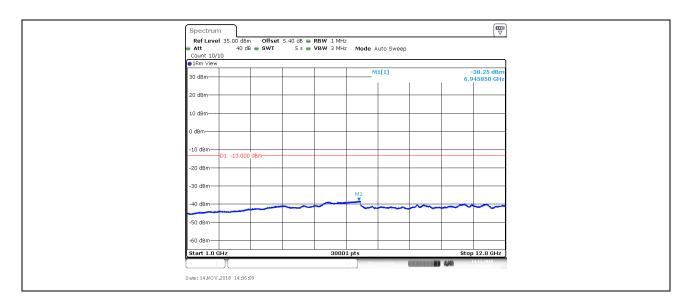
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# 7. Field Strength of Spurious Radiation

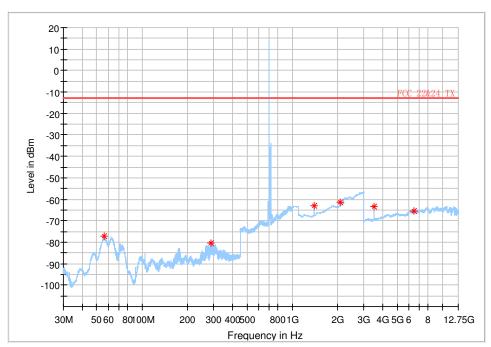
7.1.Test BAND = LTE BAND 12

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

## 7.1.1.1.1 Polarity=Horizontal

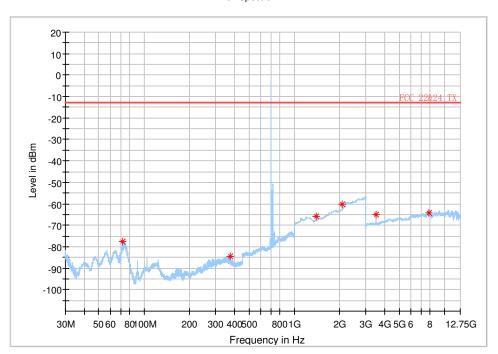




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## 7.1.1.1.2. Polarity=Vertical

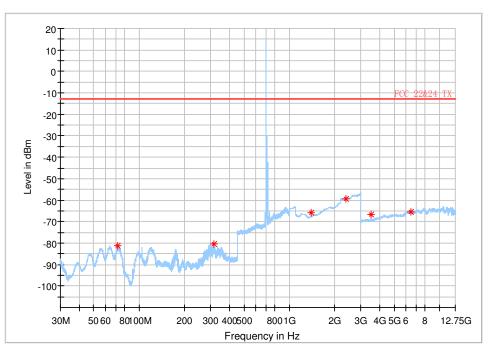
#### Full Spectrum



#### 7.1.1.2. Test Channel = MCH

## 7.1.1.2.1. Polarity=Horizontal

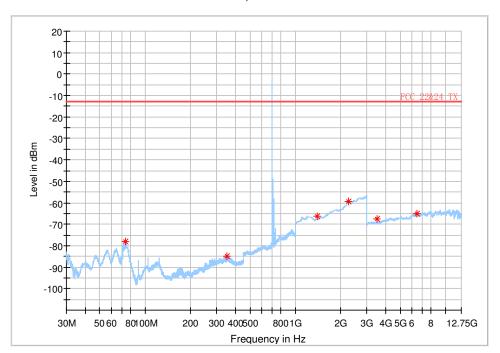
#### Full Spectrum



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## 7.1.1.2.2. Polarity=Vertical

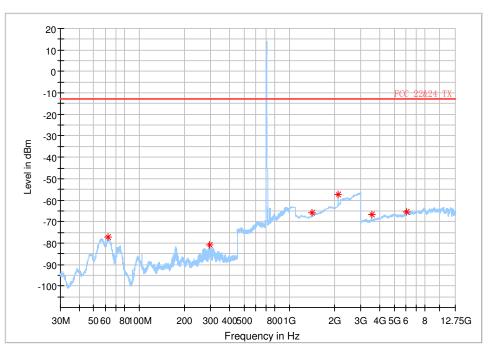




#### 7.1.1.3. Test Channel = HCH

## 7.1.1.3.1. Polarity=Horizontal

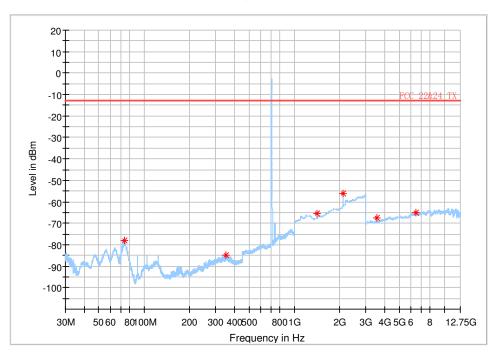
#### Full Spectrum



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## 7.1.1.3.2. Polarity=Vertical

#### Full Spectrum



#### Remark:

- 1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

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# 8. Frequency Stability

## 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	3.06	0.004347	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	2.66	0.003778	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	3.56	0.005057	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	2.32	0.003279	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-2.83	-0.004000	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-2.12	-0.002996	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-2.46	-0.003460	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-2.68	-0.003769	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.72	-0.003826	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	0.60	0.000852	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	0.40	0.000565	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	2.82	0.004006	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	3.55	0.005043	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	3.98	0.005653	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-2.00	-0.002827	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-2.80	-0.003958	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-2.20	-0.003110	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-2.52	-0.003544	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-2.52	-0.003544	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-2.79	-0.003924	±2.5	PASS

## 8.2. Frequency Vs Temperature

	Temperature											
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	3.48	0.004943	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	2.92	0.004148	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	0	2.76	0.003920	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	10	2.40	0.003409	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	20	2.69	0.003821	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	30	4.28	0.006080	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	40	2.92	0.004148	±2.5	PASS		
Band12	10MHz	QPSK	23060	50RB#0	NV	50	3.03	0.004304	±2.5	PASS		
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	2.40	0.003392	±2.5	PASS		
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.37	0.003350	±2.5	PASS		
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.65	-0.003746	±2.5	PASS		



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Band12	10MHz	QPSK	23095	50RB#0	NV	10	-2.56	-0.003618	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.22	-0.003138	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	3.63	0.005131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.33	0.003293	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	2.73	0.003859	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-3.08	-0.004332	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.50	-0.003516	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.09	-0.002940	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.81	-0.005359	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-2.90	-0.004079	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-2.83	-0.003980	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-2.86	-0.004023	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-2.56	-0.003601	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	0.60	0.000852	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	1.00	0.001420	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	1.20	0.001705	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	1.10	0.001563	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	40	1.10	0.001563	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	50	1.10	0.001563	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	0.80	0.001131	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	-0.10	-0.000111	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	0.50	0.000707	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	0	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	0.20	0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	3.26	0.004631	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	3.26	0.004631	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	4.01	0.005696	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	3.00	0.003030	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	3.48	0.004243	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	3.46	0.004943	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	2.93	0.004332	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	3.30	0.004102	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-3.18	-0.004495	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	2.70	0.003816	±2.5	PASS
	10MHz	16QAM	23095	50RB#0	NV			0.003616		PASS
Band12						10	2.57		±2.5	
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-3.30	-0.004664	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.33	-0.003293	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	2.46	0.003477	±2.5	PASS

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Band12	10MHz	16QAM	23095	50RB#0	NV	40	2.12	0.002996	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-2.82	-0.003986	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	2.69	0.003783	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-3.40	-0.004782	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-2.78	-0.003910	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-2.53	-0.003558	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	3.38	0.004754	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-2.79	-0.003924	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-2.52	-0.003544	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-2.75	-0.003868	±2.5	PASS

The End