



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 (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND12	1.4MHz	QPSKs	23017	1RB#0	23.59	16.71	34.77	PASS
BAND12	1.4MHz	QPSK	23017	1RB#2	23.50	16.62	34.77	PASS
BAND12	1.4MHz	QPSK	23017	1RB#5	23.59	16.71	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#0	23.61	16.73	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#1	23.47	16.59	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#3	23.47	16.59	34.77	PASS
BAND12	1.4MHz	QPSK	23017	6RB#0	21.99	15.11	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#0	23.75	16.87	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#2	23.53	16.65	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#5	23.63	16.75	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#0	23.63	16.75	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#1	23.51	16.63	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#3	23.71	16.83	34.77	PASS
BAND12	1.4MHz	QPSK	23095	6RB#0	22.09	15.21	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#0	23.60	16.72	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#2	23.51	16.63	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#5	23.81	16.93	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#0	23.61	16.73	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#1	23.49	16.61	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#3	23.64	16.76	34.77	PASS
BAND12	1.4MHz	QPSK	23173	6RB#0	22.04	15.16	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#0	22.62	15.74	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#2	22.43	15.55	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#5	22.77	15.89	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#0	22.72	15.84	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#1	22.54	15.66	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#3	22.50	15.62	34.77	PASS
BAND12	1.4MHz	64QAM	23017	6RB#0	21.54	14.66	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#0	21.82	14.94	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#2	21.49	14.61	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#5	21.98	15.1	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#0	21.75	14.87	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#1	21.55	14.67	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#3	21.73	14.85	34.77	PASS



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BAND12	1.4MHz	64QAM	23095	6RB#0	20.55	13.67	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#0	21.86	14.98	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#2	21.63	14.75	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#5	22.00	15.12	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#0	21.52	14.64	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#1	21.54	14.66	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#3	21.69	14.81	34.77	PASS
BAND12	1.4MHz	64QAM	23173	6RB#0	20.56	13.68	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#0	22.84	15.96	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#2	22.42	15.54	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#5	22.84	15.96	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#0	22.61	15.73	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#1	22.42	15.54	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#3	22.46	15.58	34.77	PASS
BAND12	1.4MHz	16QAM	23017	6RB#0	21.44	14.56	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#0	22.84	15.96	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#2	22.69	15.81	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#5	22.90	16.02	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#0	22.64	15.76	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#1	22.44	15.56	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#3	22.64	15.76	34.77	PASS
BAND12	1.4MHz	16QAM	23095	6RB#0	21.55	14.67	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#0	22.73	15.85	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#2	22.63	15.75	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#5	23.07	16.19	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#0	22.57	15.69	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#1	22.54	15.66	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#3	22.68	15.8	34.77	PASS
BAND12	1.4MHz	16QAM	23173	6RB#0	21.52	14.64	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#0	23.65	16.77	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#8	23.77	16.89	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#14	23.80	16.92	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#0	22.26	15.38	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#4	22.19	15.31	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#7	22.09	15.21	34.77	PASS
BAND12	3MHz	QPSK	23025	15RB#0	22.18	15.3	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#0	23.69	16.81	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#8	23.82	16.94	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#14	23.69	16.81	34.77	PASS
BAND12	3MHz	QPSK	23095	8RB#0	22.15	15.27	34.77	PASS
BAND12	3MHz	QPSK	23095	8RB#4	22.19	15.31	34.77	PASS

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BAND12	3MHz	QPSK	23095	8RB#7	22.16	15.28	34.77	PASS
BAND12	3MHz	QPSK	23095	15RB#0	22.15	15.27	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#0	23.64	16.76	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#8	23.89	17.01	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#14	23.84	16.96	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#0	22.14	15.26	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#4	22.16	15.28	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#7	22.18	15.3	34.77	PASS
BAND12	3MHz	QPSK	23165	15RB#0	22.18	15.3	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#0	22.69	15.81	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#8	22.81	15.93	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#14	22.87	15.99	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#0	21.53	14.65	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#4	21.51	14.63	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#7	21.48	14.6	34.77	PASS
BAND12	3MHz	64QAM	23025	15RB#0	21.69	14.81	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#0	21.81	14.93	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#8	22.03	15.15	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#14	21.75	14.87	34.77	PASS
BAND12	3MHz	64QAM	23095	8RB#0	20.55	13.67	34.77	PASS
BAND12	3MHz	64QAM	23095	8RB#4	20.65	13.77	34.77	PASS
BAND12	3MHz	64QAM	23095	8RB#7	20.54	13.66	34.77	PASS
BAND12	3MHz	64QAM	23095	15RB#0	20.57	13.69	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#0	21.86	14.98	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#8	21.85	14.97	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#14	22.07	15.19	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#0	20.59	13.71	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#4	20.58	13.7	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#7	20.59	13.71	34.77	PASS
BAND12	3MHz	64QAM	23165	15RB#0	20.58	13.7	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#0	22.80	15.92	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#8	22.89	16.01	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#14	22.90	16.02	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#0	21.68	14.8	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#4	21.67	14.79	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#7	21.51	14.63	34.77	PASS
BAND12	3MHz	16QAM	23025	15RB#0	21.68	14.8	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#0	22.81	15.93	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#8	23.05	16.17	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#14	22.88	16	34.77	PASS
BAND12	3MHz	16QAM	23095	8RB#0	21.63	14.75	34.77	PASS

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BAND12	3MHz	16QAM	23095	8RB#4	21.65	14.77	34.77	PASS
BAND12	3MHz	16QAM	23095	8RB#7	21.59	14.71	34.77	PASS
BAND12	3MHz	16QAM	23095	15RB#0	21.61	14.73	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#0	22.82	15.94	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#8	22.88	16	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#14	22.96	16.08	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#0	21.52	14.64	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#4	21.58	14.7	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#7	21.64	14.76	34.77	PASS
BAND12	3MHz	16QAM	23165	15RB#0	21.64	14.76	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#0	23.65	16.77	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#12	23.16	16.28	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#24	23.73	16.85	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#0	22.27	15.39	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#6	22.17	15.29	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#13	22.13	15.25	34.77	PASS
BAND12	5MHz	QPSK	23035	25RB#0	22.05	15.17	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#0	23.68	16.8	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#12	23.14	16.26	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#24	23.68	16.8	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#0	22.21	15.33	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#6	22.16	15.28	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#13	22.21	15.33	34.77	PASS
BAND12	5MHz	QPSK	23095	25RB#0	22.14	15.26	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#0	23.86	16.98	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#12	23.68	16.8	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#24	24.29	17.41	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#0	22.73	15.85	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#6	22.70	15.82	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#13	22.80	15.92	34.77	PASS
BAND12	5MHz	QPSK	23155	25RB#0	22.73	15.85	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#0	22.77	15.89	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#12	22.27	15.39	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#24	22.75	15.87	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#0	21.67	14.79	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#6	21.53	14.65	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#13	21.62	14.74	34.77	PASS
BAND12	5MHz	64QAM	23035	25RB#0	21.56	14.68	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#0	21.80	14.92	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#12	21.64	14.76	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#24	21.83	14.95	34.77	PASS

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BAND12	5MHz	64QAM	23095	12RB#0	20.70	13.82	34.77	PASS
BAND12	5MHz	64QAM	23095	12RB#6	20.61	13.73	34.77	PASS
BAND12	5MHz	64QAM	23095	12RB#13	20.68	13.8	34.77	PASS
BAND12	5MHz	64QAM	23095	25RB#0	20.63	13.75	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#0	23.15	16.27	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#12	22.49	15.61	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#24	23.32	16.44	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#0	22.19	15.31	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#6	22.04	15.16	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#13	22.24	15.36	34.77	PASS
BAND12	5MHz	64QAM	23155	25RB#0	22.16	15.28	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#0	22.94	16.06	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#12	22.21	15.33	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#24	22.90	16.02	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#0	21.66	14.78	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#6	21.56	14.68	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#13	21.61	14.73	34.77	PASS
BAND12	5MHz	16QAM	23035	25RB#0	21.55	14.67	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#0	22.77	15.89	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#12	22.33	15.45	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#24	22.86	15.98	34.77	PASS
BAND12	5MHz	16QAM	23095	12RB#0	21.69	14.81	34.77	PASS
BAND12	5MHz	16QAM	23095	12RB#6	21.62	14.74	34.77	PASS
BAND12	5MHz	16QAM	23095	12RB#13	21.64	14.76	34.77	PASS
BAND12	5MHz	16QAM	23095	25RB#0	21.56	14.68	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#0	23.31	16.43	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#12	22.87	15.99	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#24	23.35	16.47	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#0	22.21	15.33	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#6	22.08	15.2	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#13	22.24	15.36	34.77	PASS
BAND12	5MHz	16QAM	23155	25RB#0	22.19	15.31	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#0	24.12	17.24	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#24	23.90	17.02	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#49	24.11	17.23	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#0	22.63	15.75	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#12	22.65	15.77	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#25	22.59	15.71	34.77	PASS
BAND12	10MHz	QPSK	23060	50RB#0	22.60	15.72	34.77	PASS
BAND12	10MHz	QPSK	23095	1RB#0	24.16	17.28	34.77	PASS
BAND12	10MHz	QPSK	23095	1RB#24	23.95	17.07	34.77	PASS

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BAND12	10MHz	QPSK	23095	1RB#49	24.09	17.21	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#0	22.81	15.93	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#12	22.75	15.87	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#25	22.63	15.75	34.77	PASS
BAND12	10MHz	QPSK	23095	50RB#0	22.74	15.86	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#0	24.16	17.28	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#24	23.90	17.02	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#49	24.28	17.4	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#0	22.75	15.87	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#12	22.74	15.86	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#25	22.72	15.84	34.77	PASS
BAND12	10MHz	QPSK	23130	50RB#0	22.74	15.86	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#0	23.11	16.23	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#24	22.92	16.04	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#49	23.22	16.34	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#0	22.11	15.23	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#12	22.03	15.15	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#25	22.02	15.14	34.77	PASS
BAND12	10MHz	64QAM	23060	50RB#0	22.07	15.19	34.77	PASS
BAND12	10MHz	64QAM	23095	1RB#0	23.30	16.42	34.77	PASS
BAND12	10MHz	64QAM	23095	1RB#24	23.05	16.17	34.77	PASS
BAND12	10MHz	64QAM	23095	1RB#49	23.19	16.31	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#0	22.20	15.32	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#12	22.19	15.31	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#25	22.08	15.2	34.77	PASS
BAND12	10MHz	64QAM	23095	50RB#0	22.15	15.27	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#0	22.37	15.49	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#24	21.88	15	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#49	22.37	15.49	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#0	21.18	14.3	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#12	21.21	14.33	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#25	21.17	14.29	34.77	PASS
BAND12	10MHz	64QAM	23130	50RB#0	21.17	14.29	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#0	23.41	16.53	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#24	23.00	16.12	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#49	23.39	16.51	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#0	22.13	15.25	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#12	22.05	15.17	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#25	22.03	15.15	34.77	PASS
BAND12	10MHz	16QAM	23060	50RB#0	22.03	15.15	34.77	PASS
BAND12	10MHz	16QAM	23095	1RB#0	23.42	16.54	34.77	PASS

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BAND12	10MHz	16QAM	23095	1RB#24	23.10	16.22	34.77	PASS
BAND12	10MHz	16QAM	23095	1RB#49	23.40	16.52	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#0	22.18	15.3	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#12	22.19	15.31	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#25	22.09	15.21	34.77	PASS
BAND12	10MHz	16QAM	23095	50RB#0	22.16	15.28	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#0	23.30	16.42	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#24	23.08	16.2	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#49	23.37	16.49	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#0	22.22	15.34	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#12	22.14	15.26	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#25	22.14	15.26	34.77	PASS
BAND12	10MHz	16QAM	23130	50RB#0	22.17	15.29	34.77	PASS

Note:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

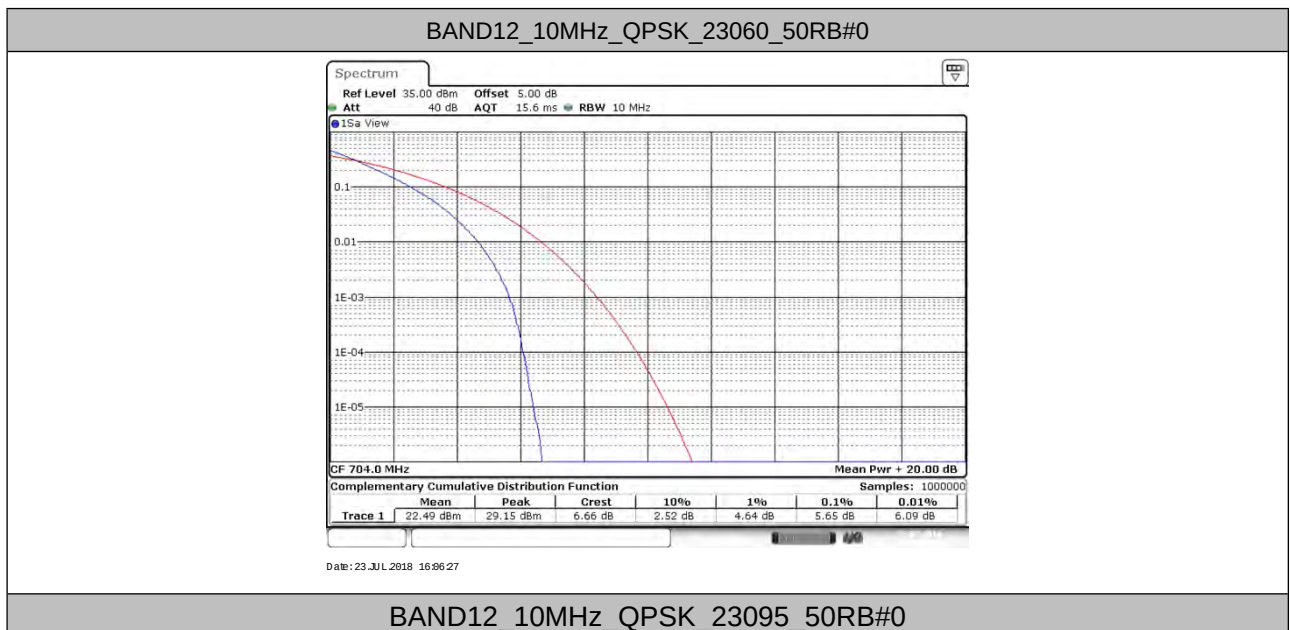


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND12	10MHz	QPSK	23060	50RB#0	5.65	13	PASS
BAND12	10MHz	QPSK	23095	50RB#0	5.77	13	PASS
BAND12	10MHz	QPSK	23130	50RB#0	5.57	13	PASS
BAND12	10MHz	64QAM	23060	50RB#0	6.38	13	PASS
BAND12	10MHz	64QAM	23095	50RB#0	6.70	13	PASS
BAND12	10MHz	64QAM	23130	50RB#0	6.70	13	PASS
BAND12	10MHz	16QAM	23060	50RB#0	6.38	13	PASS
BAND12	10MHz	16QAM	23095	50RB#0	6.43	13	PASS
BAND12	10MHz	16QAM	23130	50RB#0	6.35	13	PASS

2.2. Test Plots

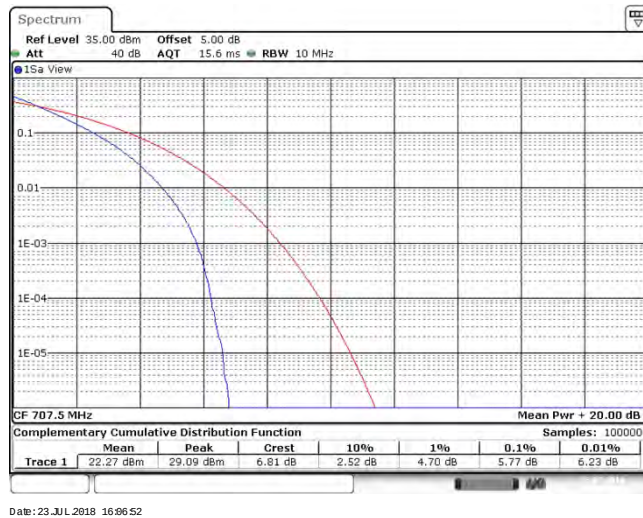




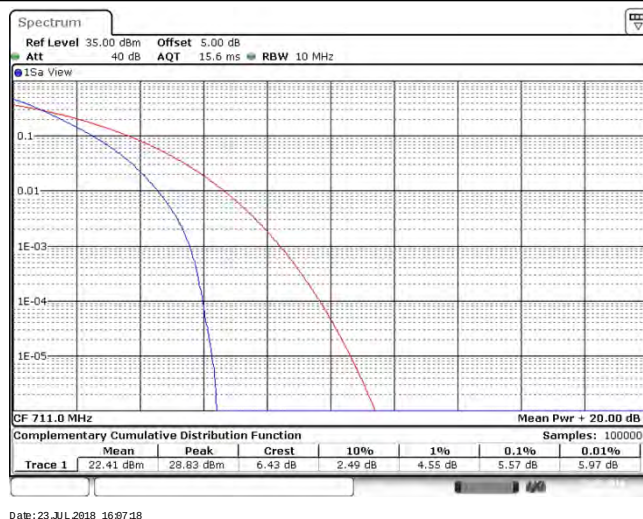
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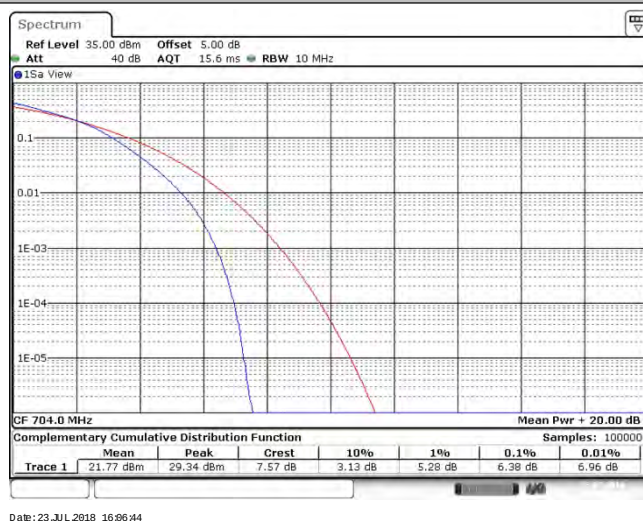
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BAND12_10MHz_QPSK_23130_50RB#0



BAND12_10MHz_64QAM_23060_50RB#0



BAND12_10MHz_64QAM_23095_50RB#0

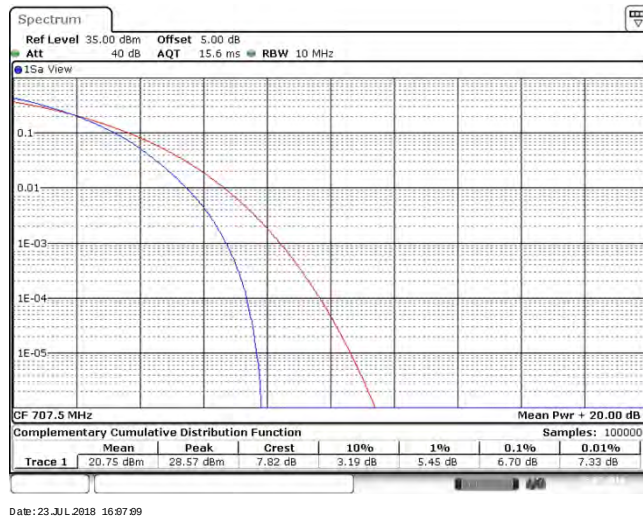
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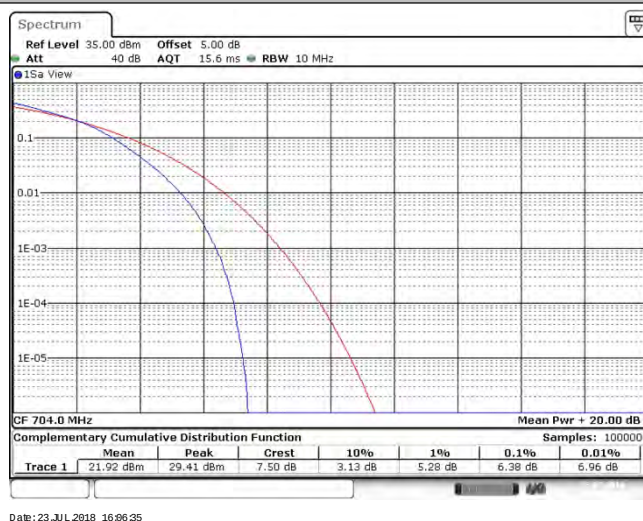
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BAND12_10MHz_64QAM_23130_50RB#0



BAND12_10MHz_16QAM_23060_50RB#0



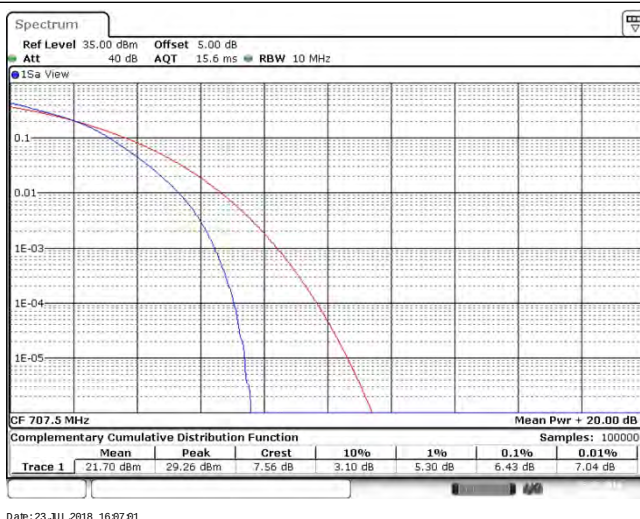
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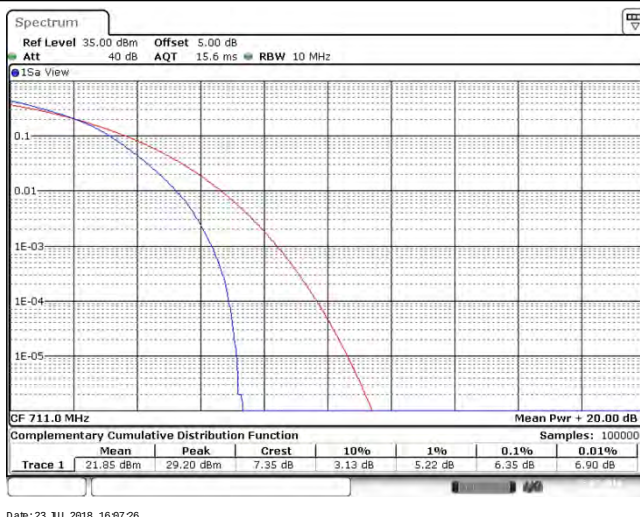
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BAND12_10MHz_16QAM_23130_50RB#0



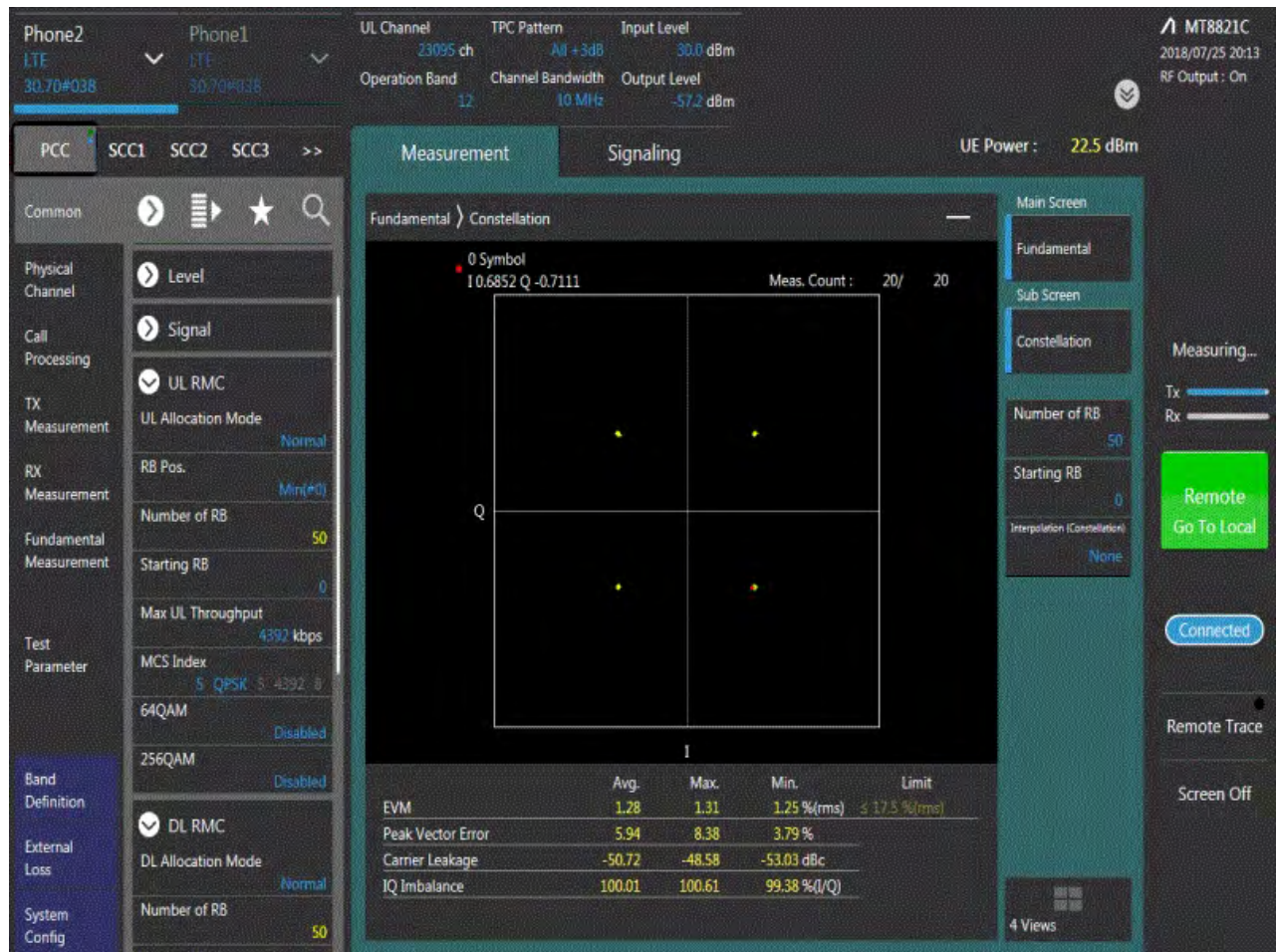


3. Modulation Characteristics

3.1. Test BAND = LTE BAND12

3.1.1. Test Mode = LTE /TM1 10MHz

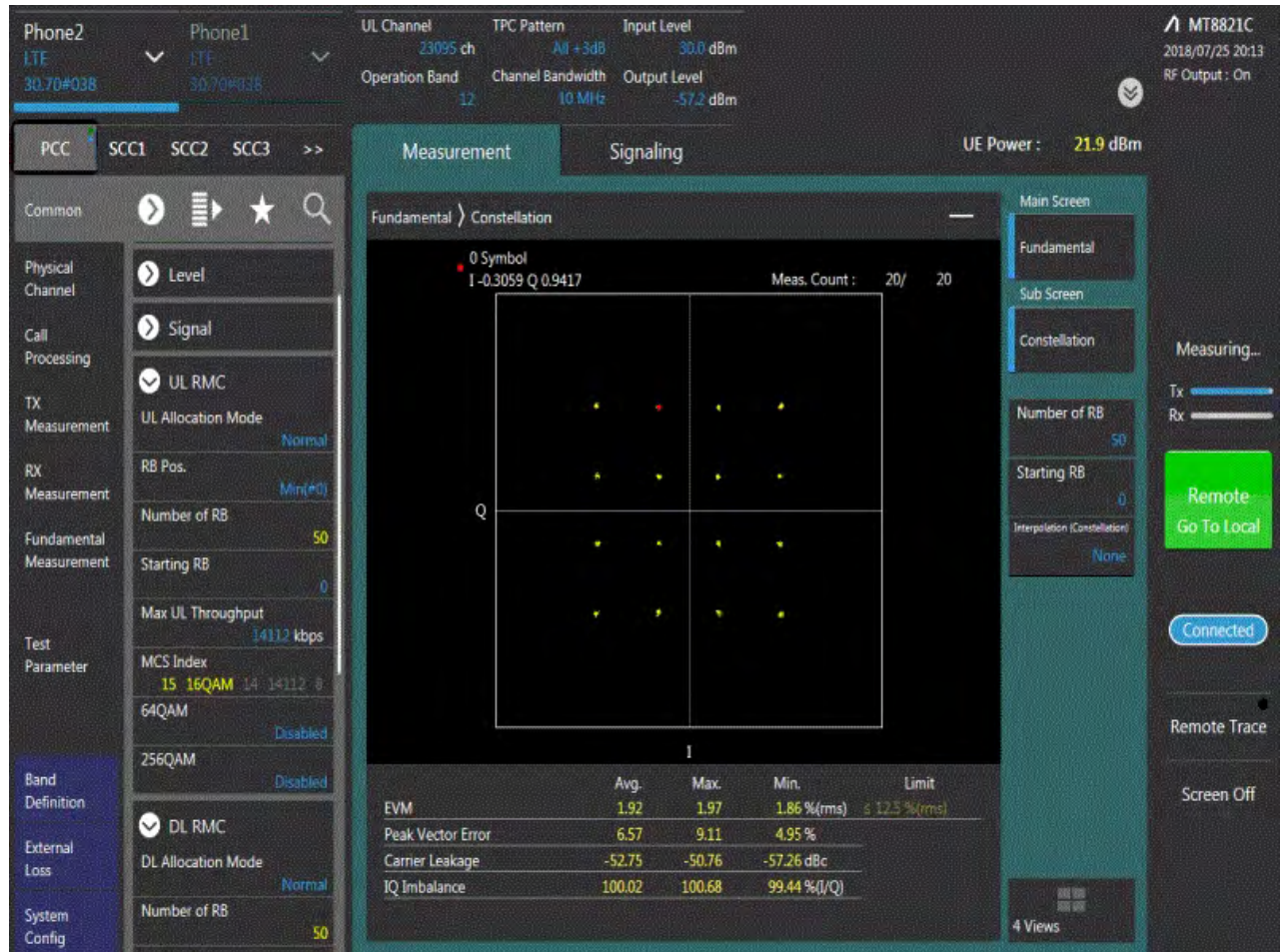
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 10MHz

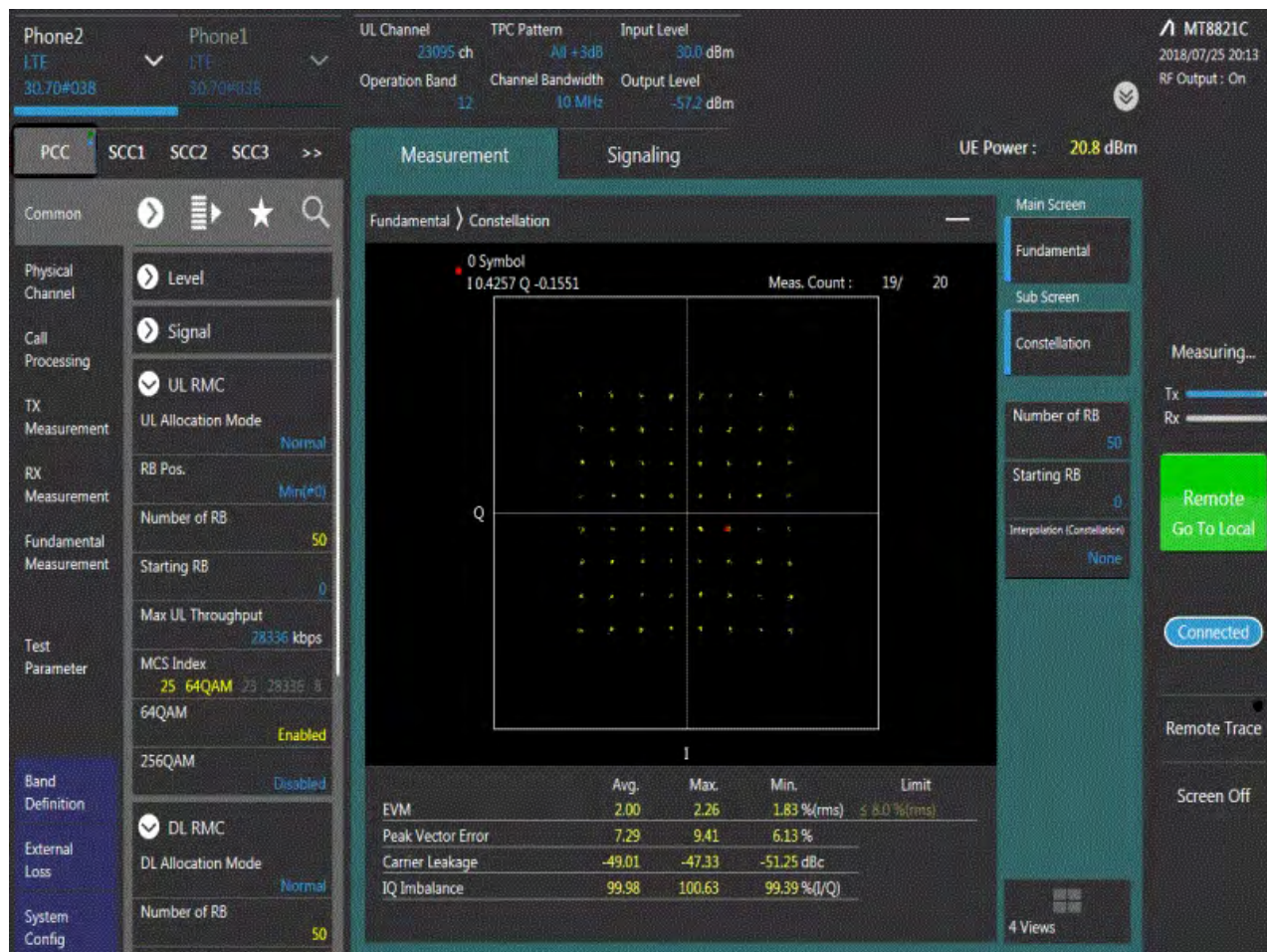
3.1.2.1. Test Channel = MCH





3.1.1. Test Mode = LTE /TM3 10MHz

3.1.1.1. Test Channel = MCH





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	1.1	1.245	PASS
BAND12	1.4MHz	QPSK	23095	6RB#0	1.094	1.248	PASS
BAND12	1.4MHz	QPSK	23173	6RB#0	1.097	1.248	PASS
BAND12	1.4MHz	64QAM	23017	6RB#0	1.094	1.245	PASS
BAND12	1.4MHz	64QAM	23095	6RB#0	1.094	1.242	PASS
BAND12	1.4MHz	64QAM	23173	6RB#0	1.094	1.254	PASS
BAND12	1.4MHz	16QAM	23017	6RB#0	1.094	1.245	PASS
BAND12	1.4MHz	16QAM	23095	6RB#0	1.094	1.245	PASS
BAND12	1.4MHz	16QAM	23173	6RB#0	1.094	1.242	PASS
BAND12	3MHz	QPSK	23025	15RB#0	2.703	2.970	PASS
BAND12	3MHz	QPSK	23095	15RB#0	2.697	2.970	PASS
BAND12	3MHz	QPSK	23165	15RB#0	2.697	2.976	PASS
BAND12	3MHz	64QAM	23025	15RB#0	2.697	2.976	PASS
BAND12	3MHz	64QAM	23095	15RB#0	2.703	2.982	PASS
BAND12	3MHz	64QAM	23165	15RB#0	2.691	2.994	PASS
BAND12	3MHz	16QAM	23025	15RB#0	2.697	2.970	PASS
BAND12	3MHz	16QAM	23095	15RB#0	2.697	2.982	PASS
BAND12	3MHz	16QAM	23165	15RB#0	2.697	2.964	PASS
BAND12	5MHz	QPSK	23035	25RB#0	4.486	4.900	PASS
BAND12	5MHz	QPSK	23095	25RB#0	4.466	4.910	PASS
BAND12	5MHz	QPSK	23155	25RB#0	4.476	4.880	PASS
BAND12	5MHz	64QAM	23035	25RB#0	4.476	4.920	PASS
BAND12	5MHz	64QAM	23095	25RB#0	4.476	4.900	PASS
BAND12	5MHz	64QAM	23155	25RB#0	4.476	4.910	PASS
BAND12	5MHz	16QAM	23035	25RB#0	4.476	4.930	PASS
BAND12	5MHz	16QAM	23095	25RB#0	4.476	4.940	PASS
BAND12	5MHz	16QAM	23155	25RB#0	4.476	4.920	PASS
BAND12	10MHz	QPSK	23060	50RB#0	8.951	9.760	PASS
BAND12	10MHz	QPSK	23095	50RB#0	8.931	9.780	PASS
BAND12	10MHz	QPSK	23130	50RB#0	8.951	9.740	PASS
BAND12	10MHz	64QAM	23060	50RB#0	8.951	9.760	PASS
BAND12	10MHz	64QAM	23095	50RB#0	8.951	9.780	PASS
BAND12	10MHz	64QAM	23130	50RB#0	8.951	9.820	PASS



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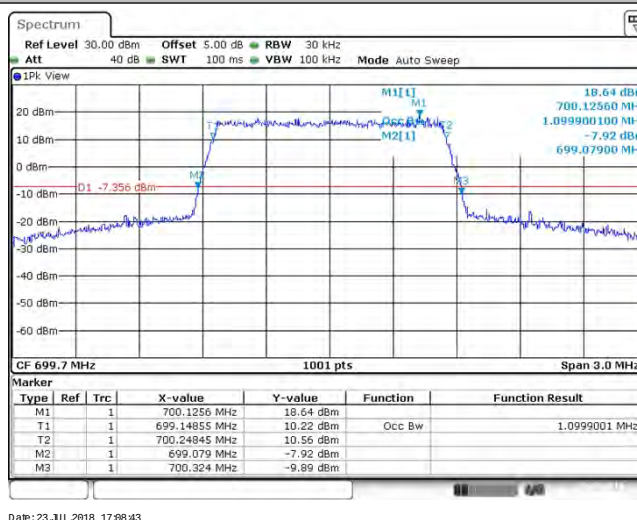
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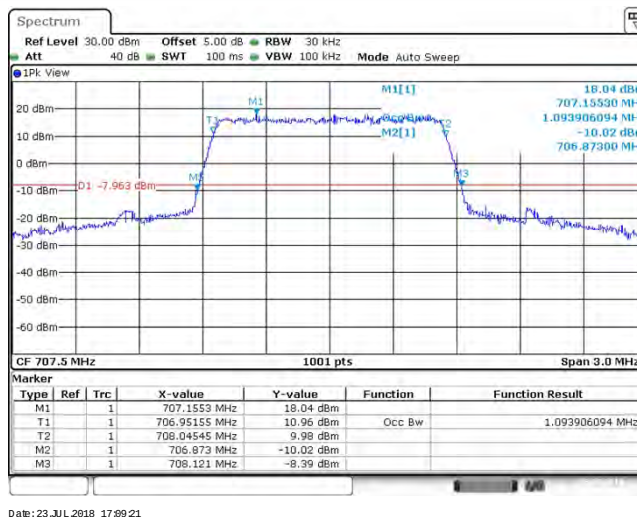
BAND12	10MHz	16QAM	23060	50RB#0	8.951	9.800	PASS
BAND12	10MHz	16QAM	23095	50RB#0	8.951	9.740	PASS
BAND12	10MHz	16QAM	23130	50RB#0	8.931	9.760	PASS

4.2. Test Plots

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BAND12_1.4MHz_QPSK_23095_6RB#0



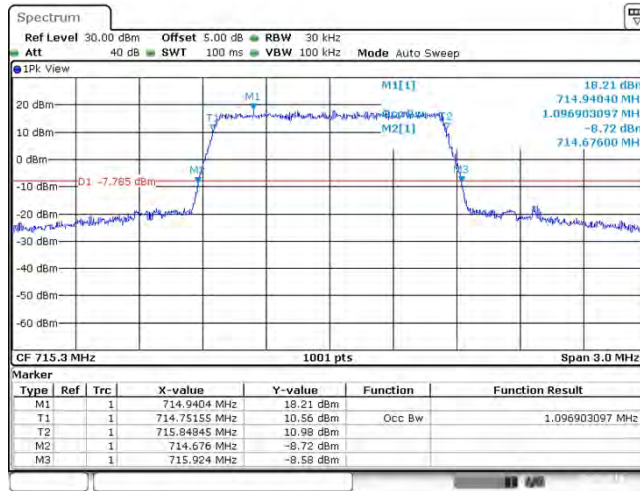
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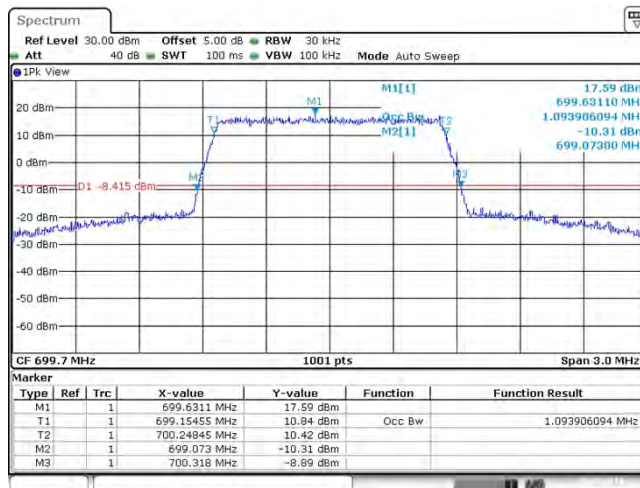
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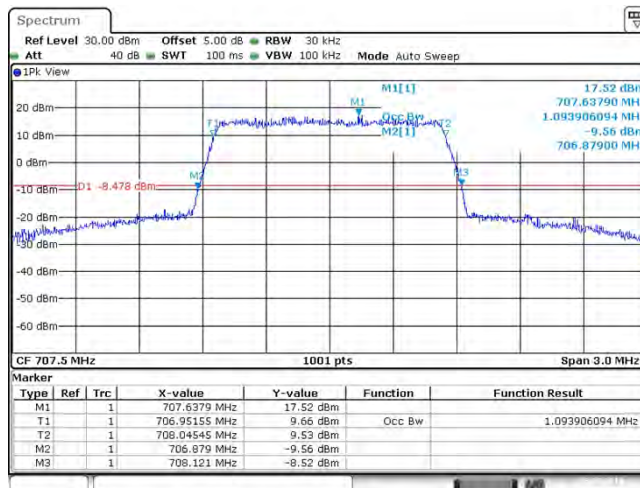
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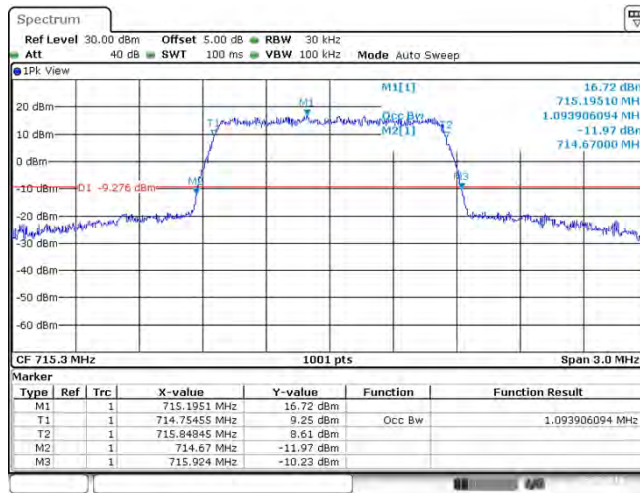
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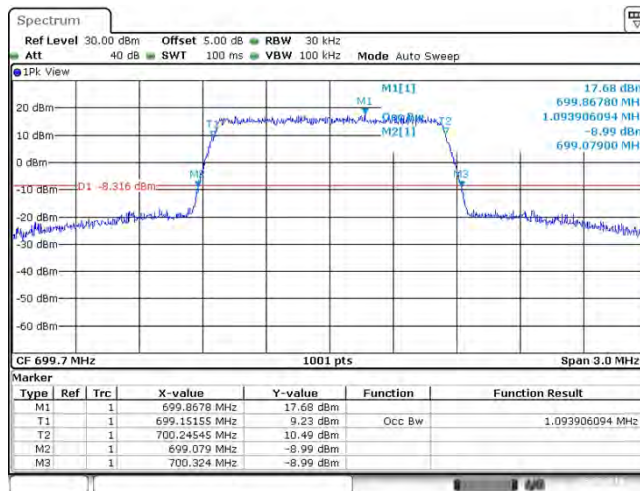
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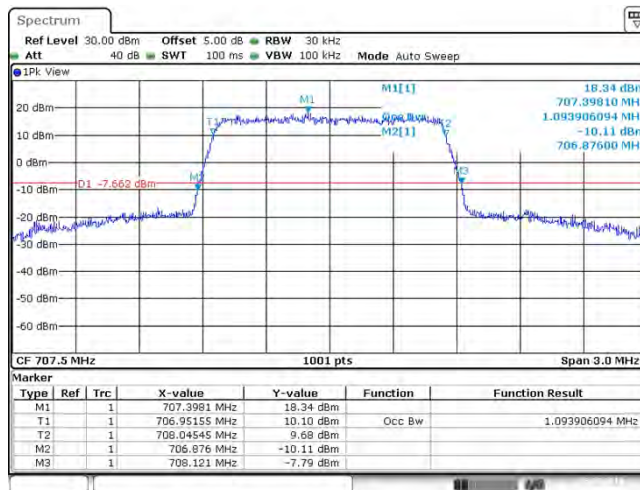
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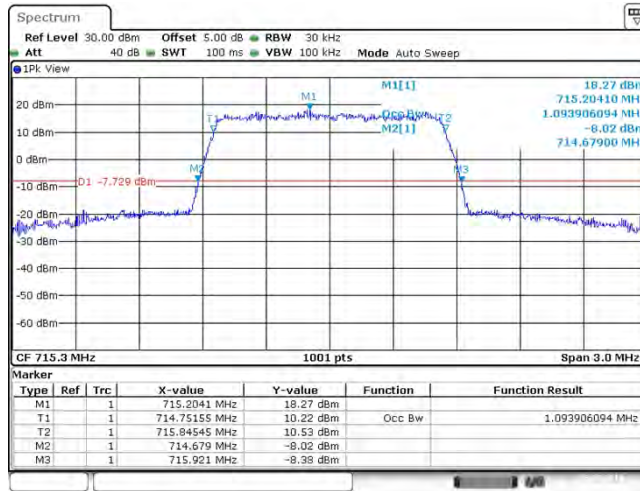
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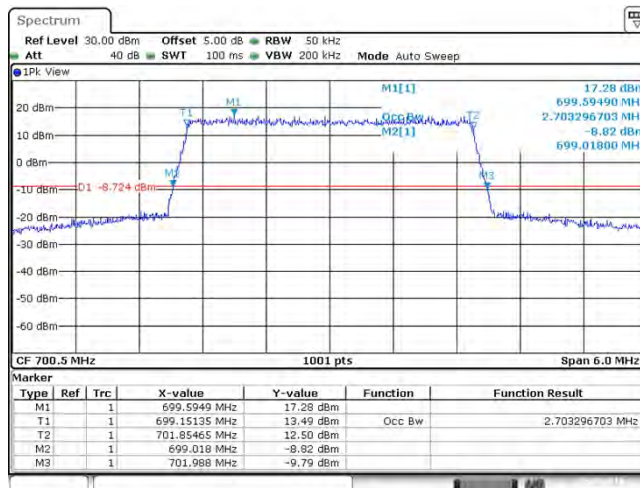
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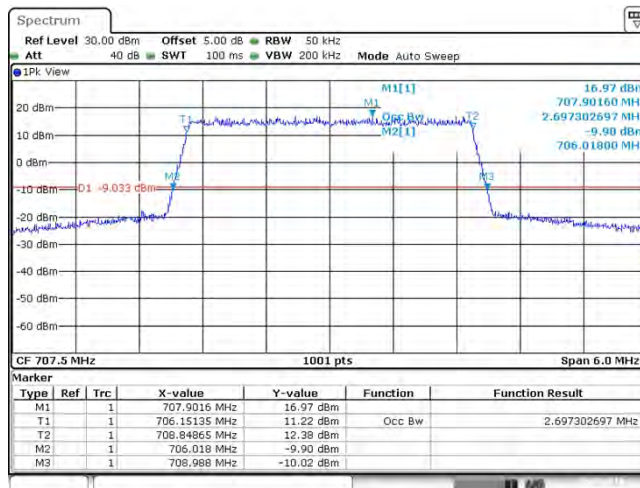
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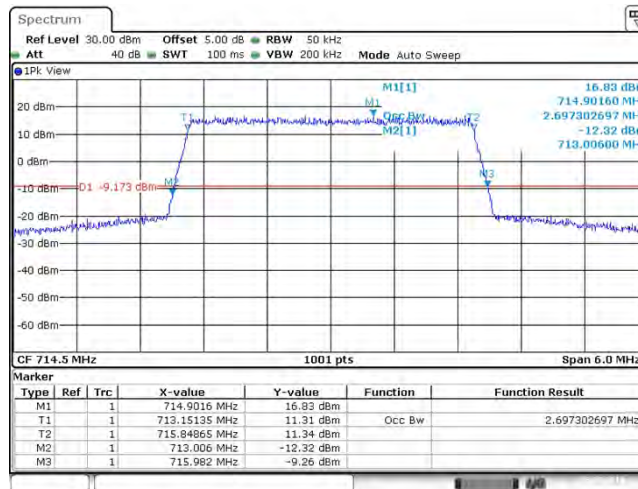
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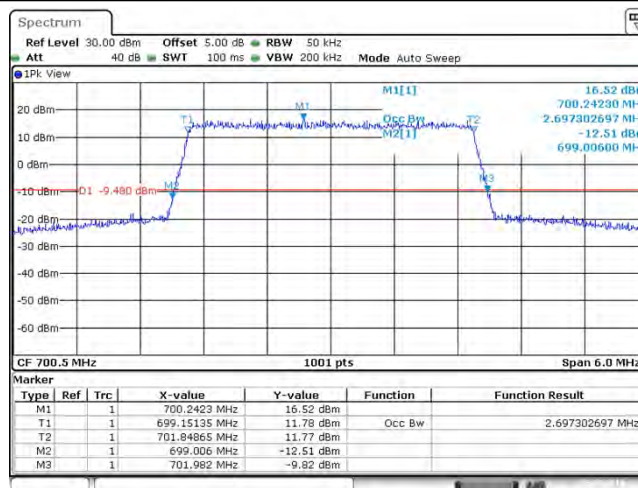
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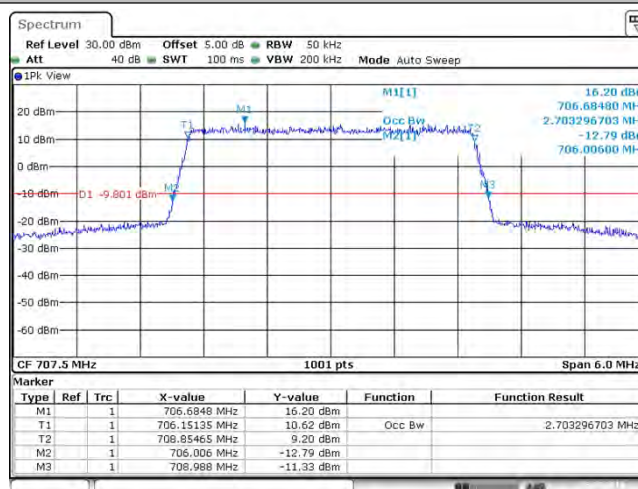
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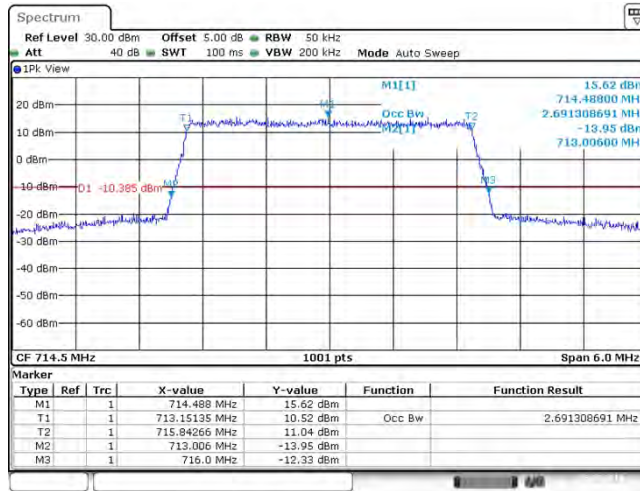
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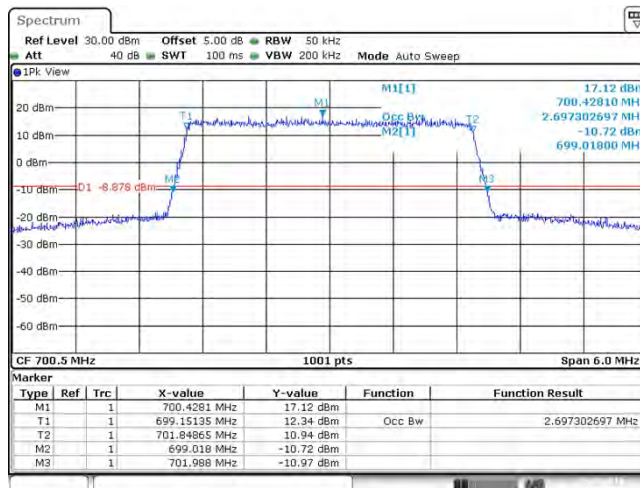
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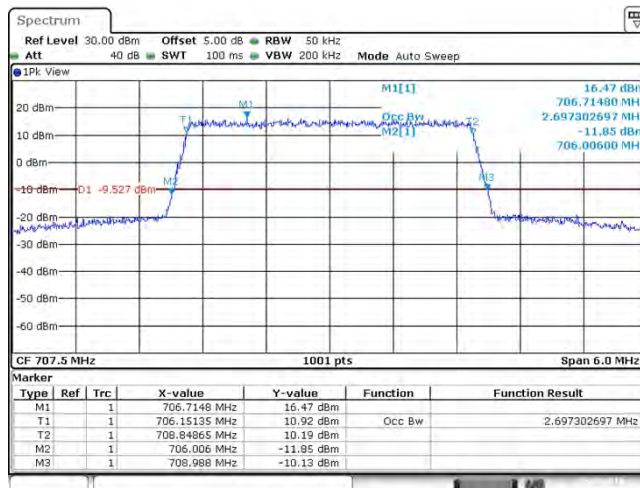
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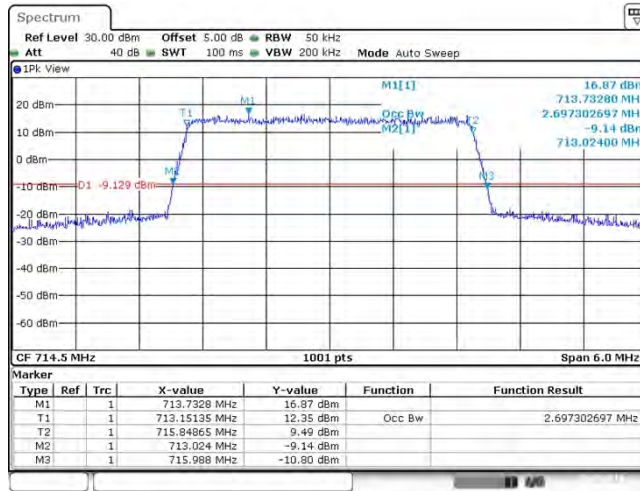
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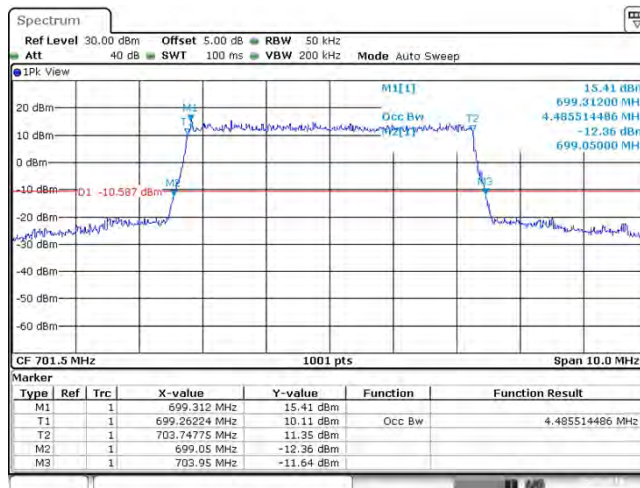
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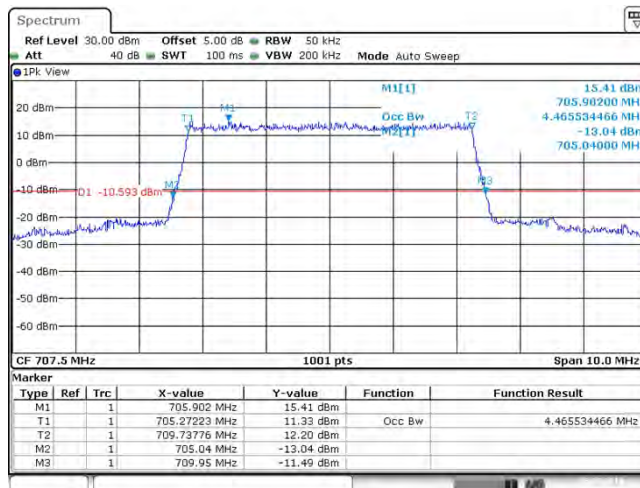
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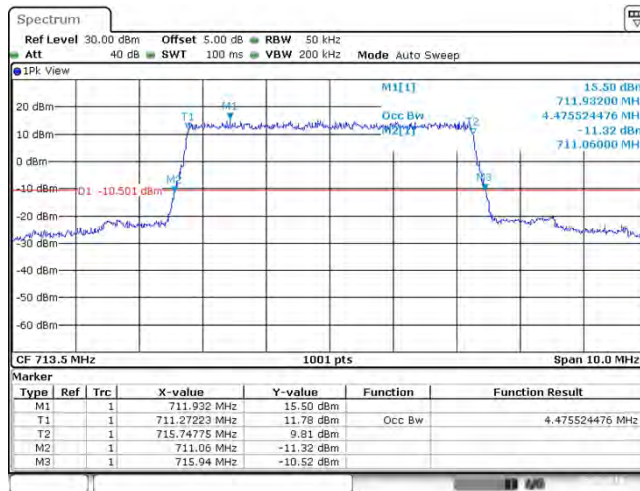
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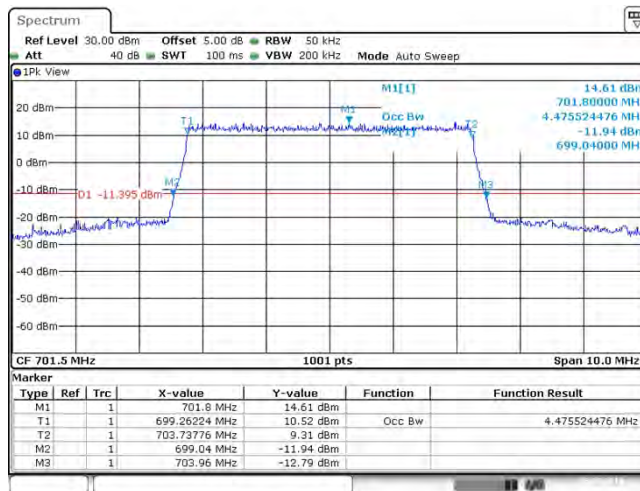
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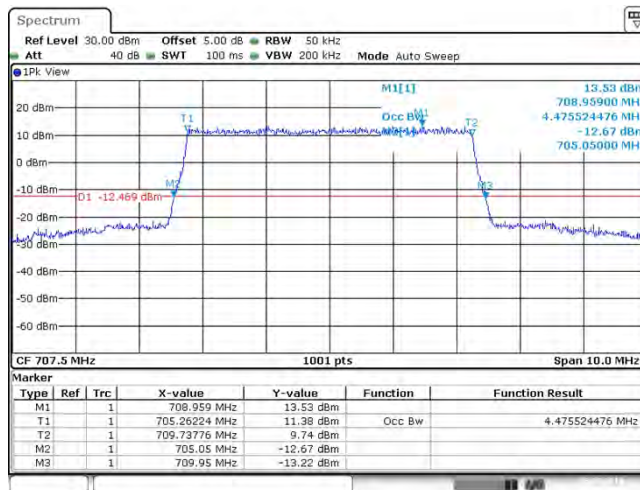
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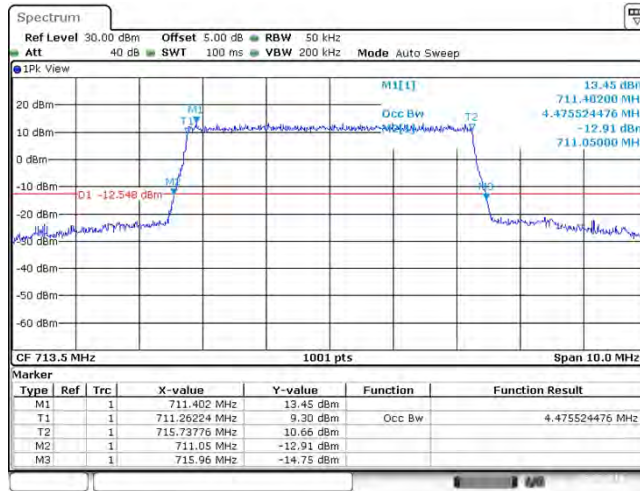
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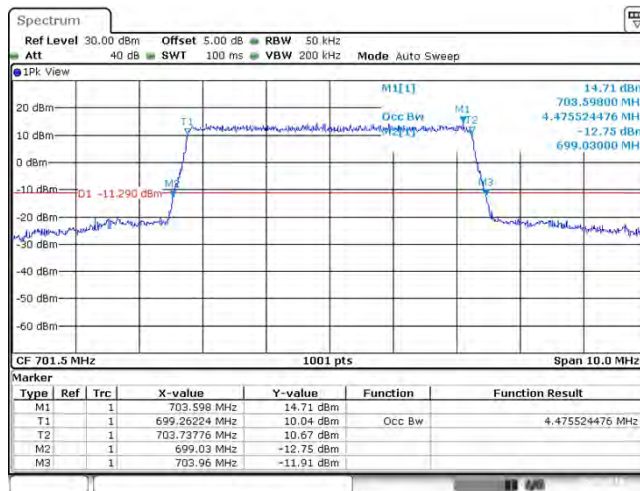
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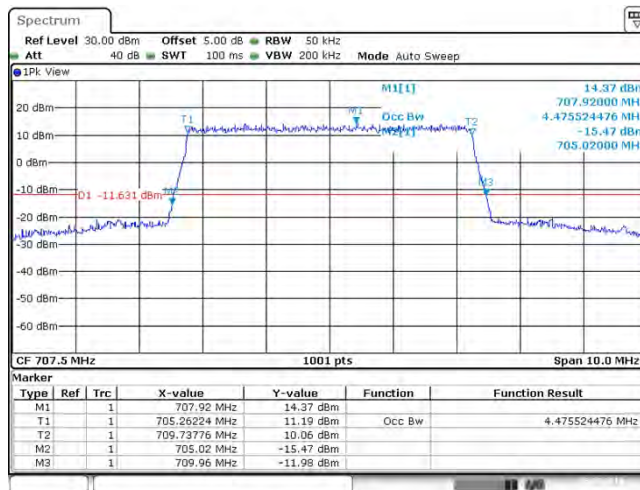
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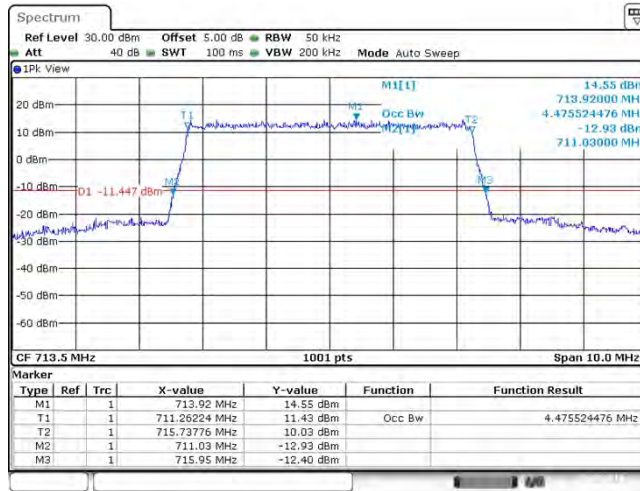
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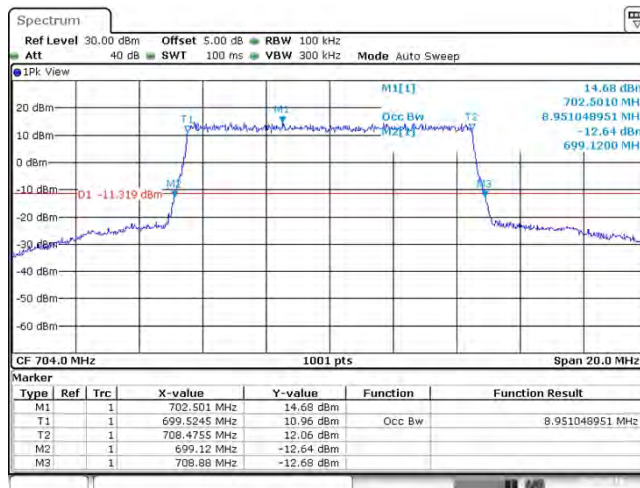
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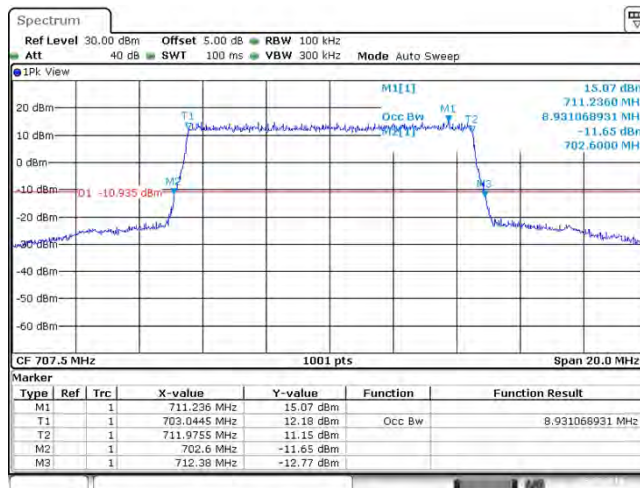
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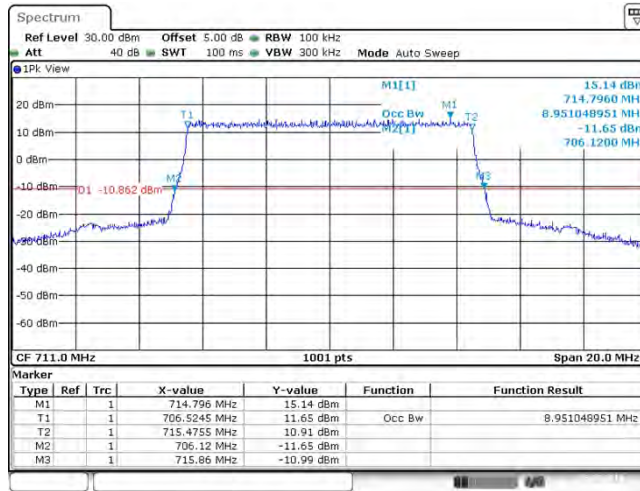
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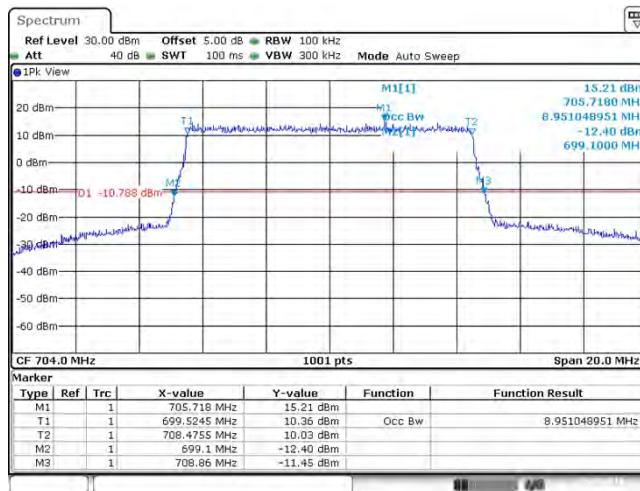
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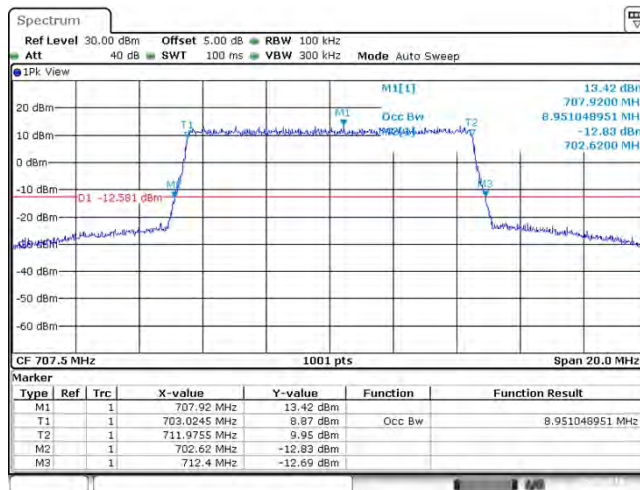
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BAND12_10MHz_64QAM_23130_50RB#0

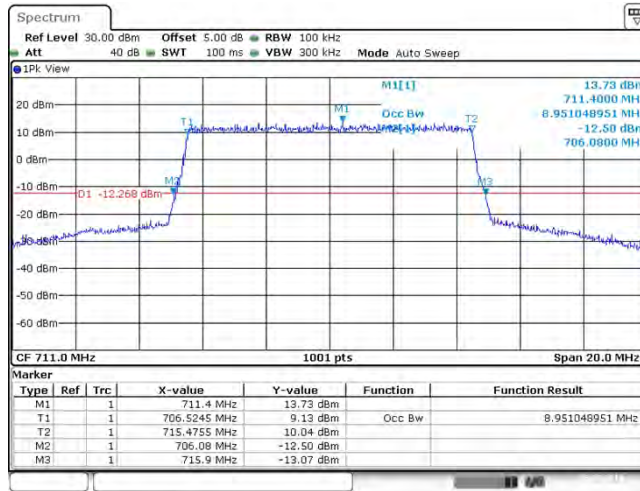
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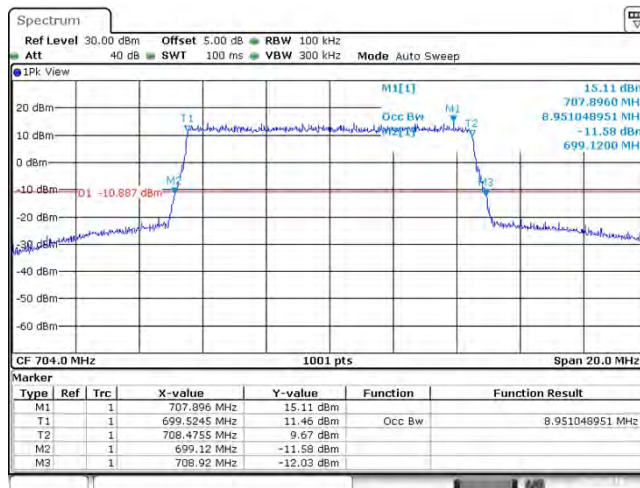
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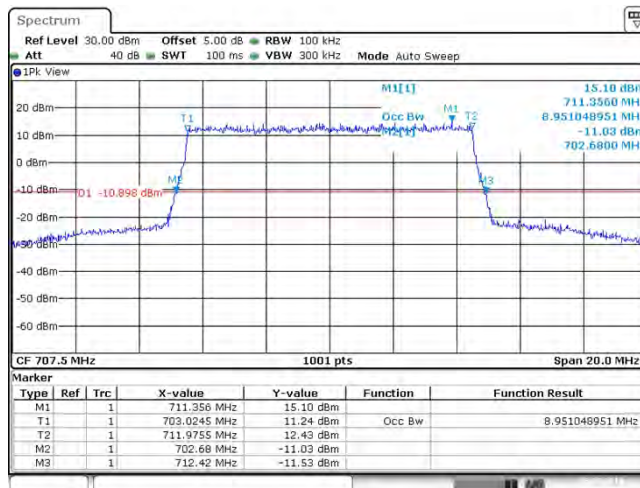
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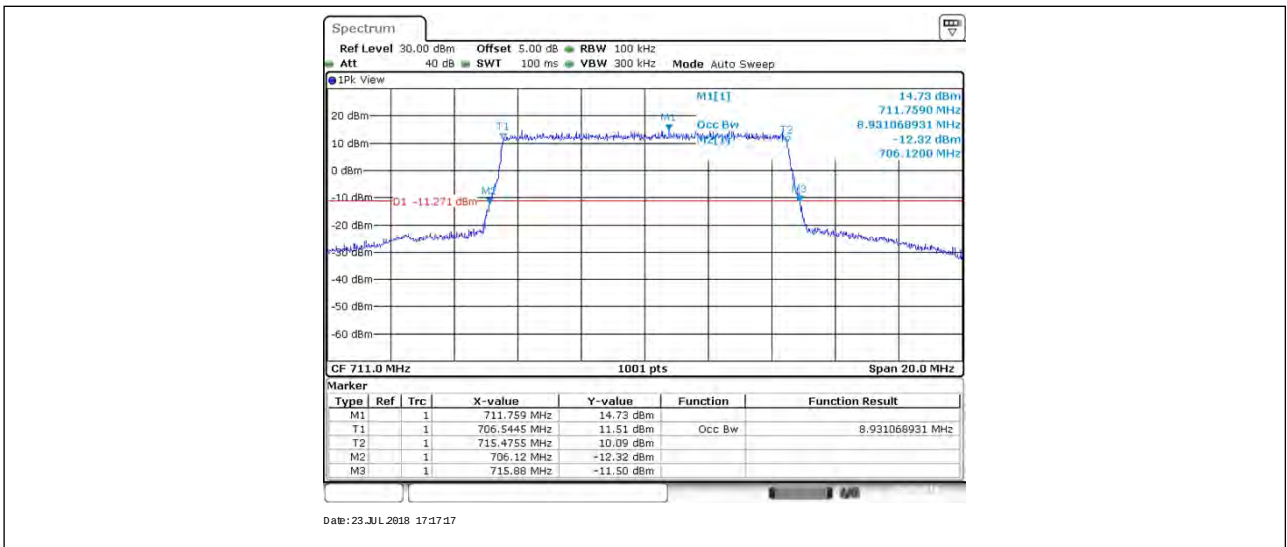
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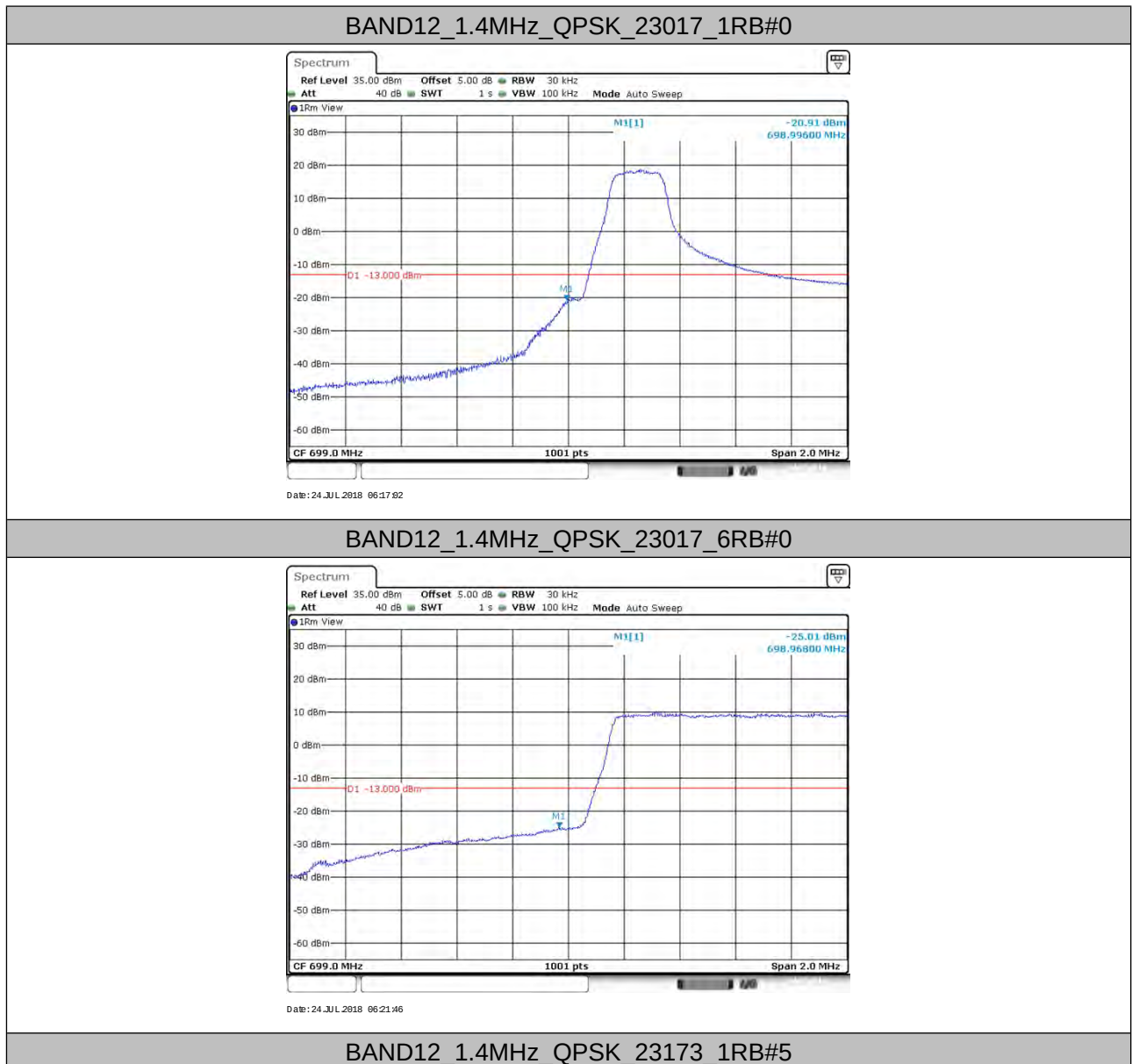
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5. Band Edge Compliance

5.1. Test Plots

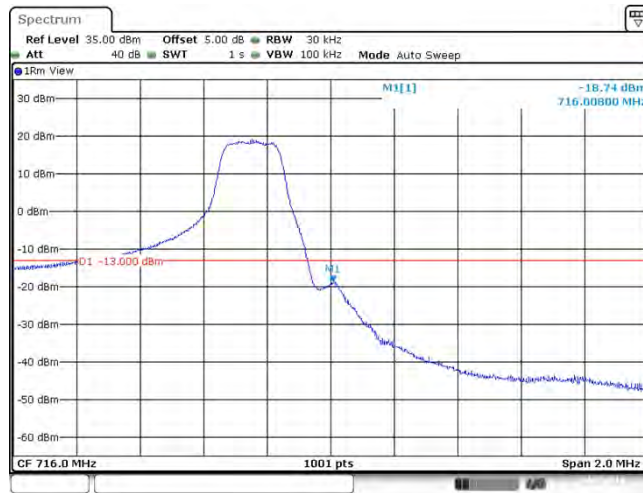




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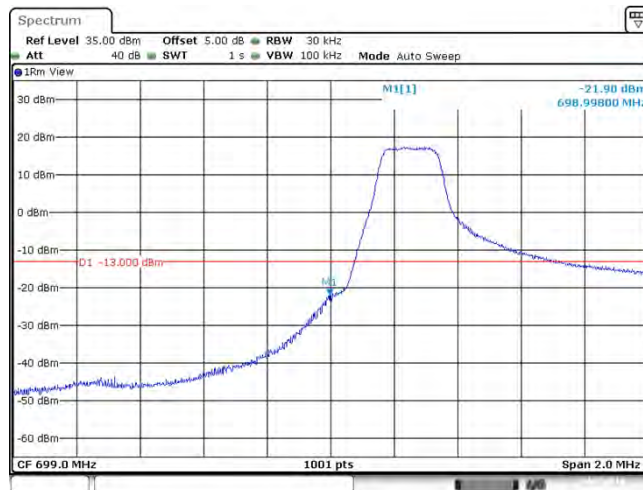
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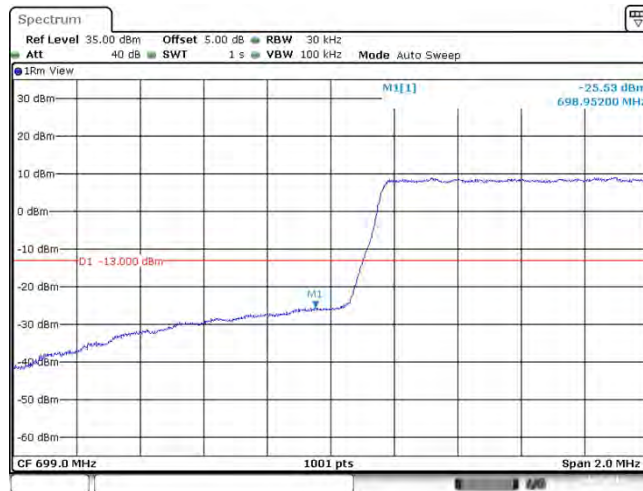
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Date: 24 JUL 2018 06:23:17

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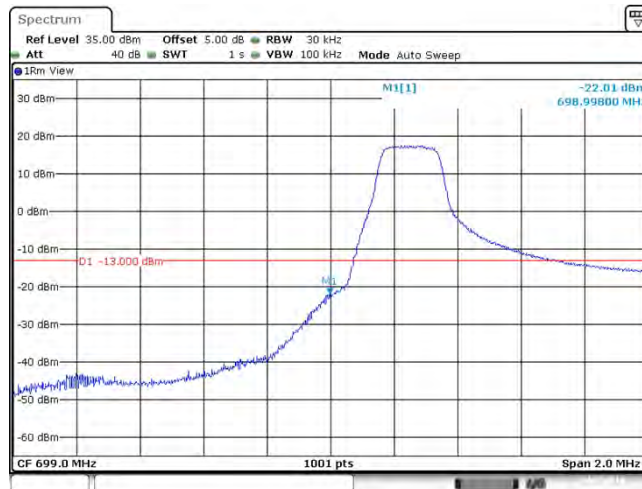
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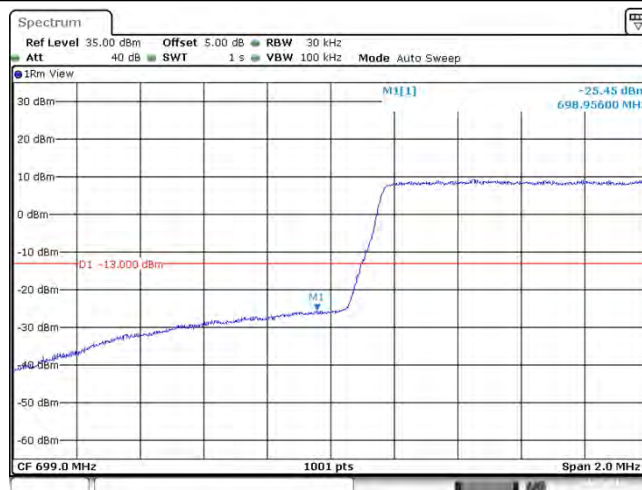
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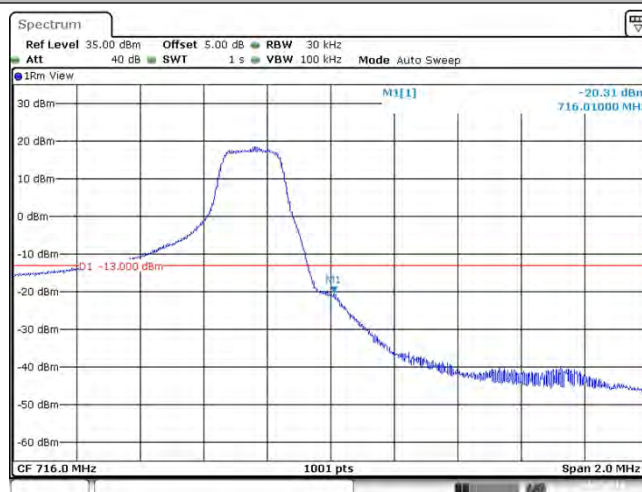
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Date: 24 JUL 2018 06:28:18

BAND12_1.4MHz_16QAM_23173_6RB#0

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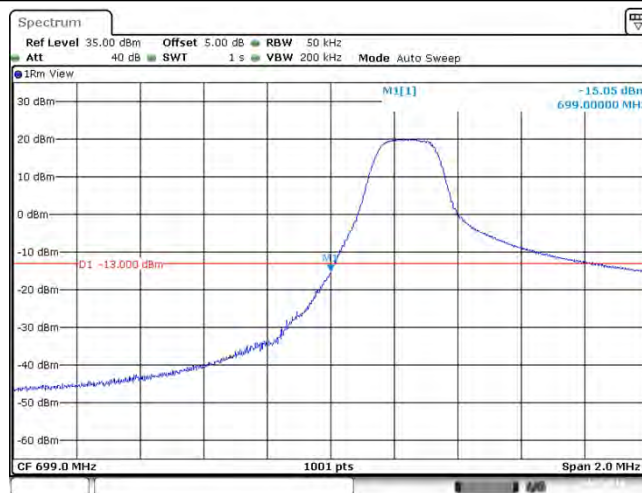
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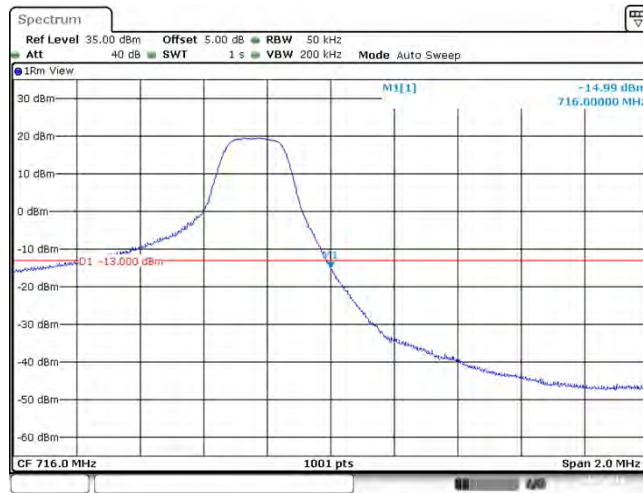
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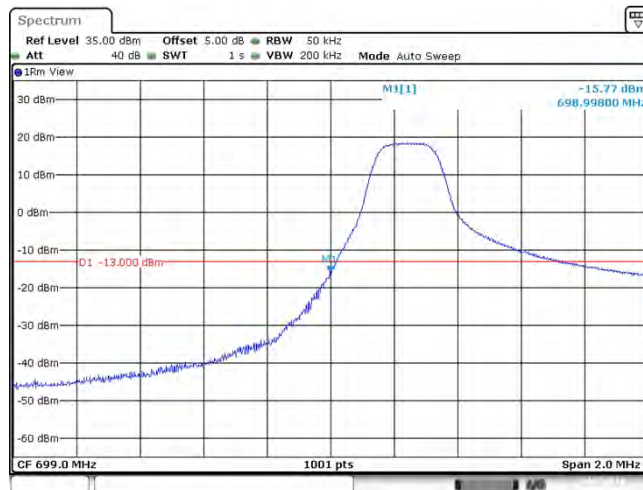
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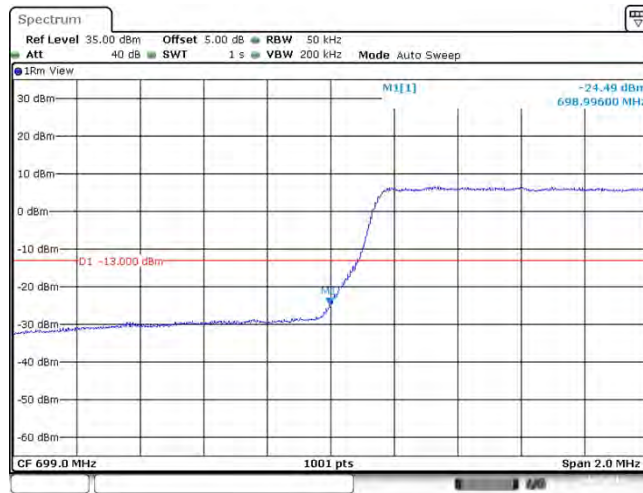
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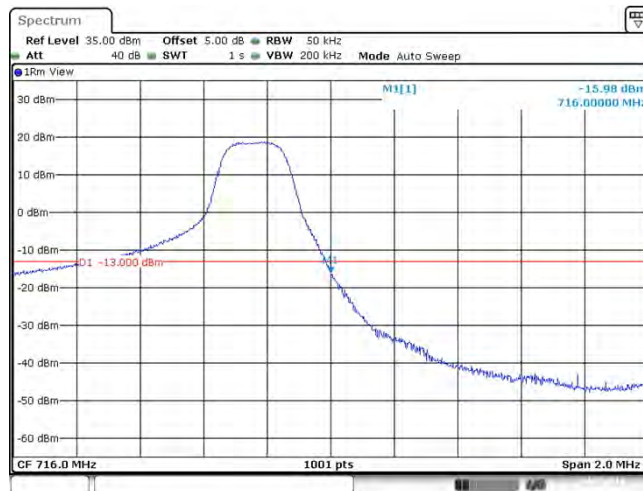
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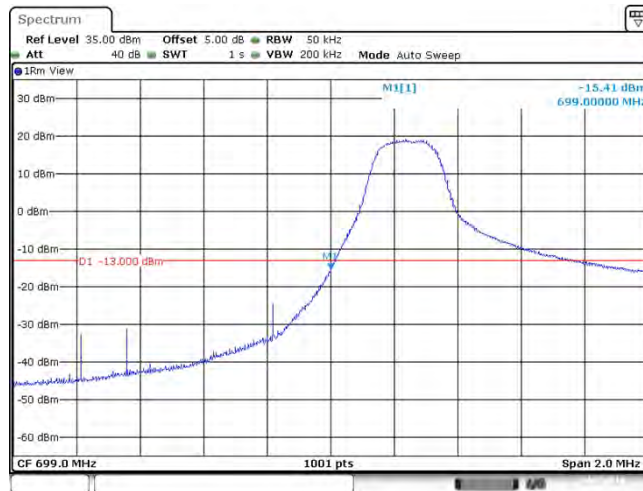
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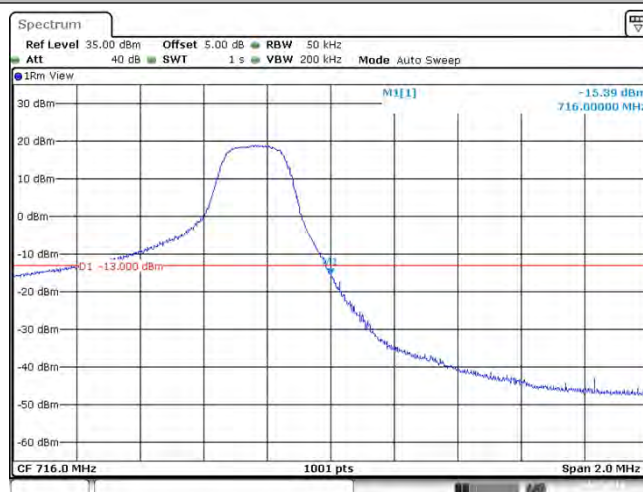
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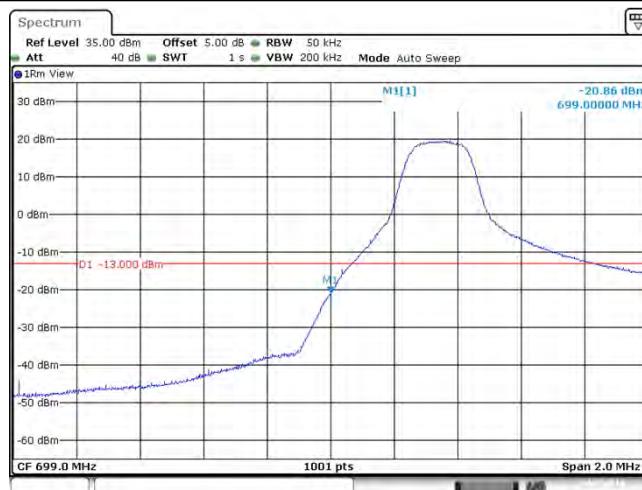
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Date: 24 JUL 2018 06:34:14

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Date: 24 JUL 2018 06:35:59

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Date: 24 JUL 2018 06:48:35

BAND12_5MHz_QPSK_23155_1RB#24



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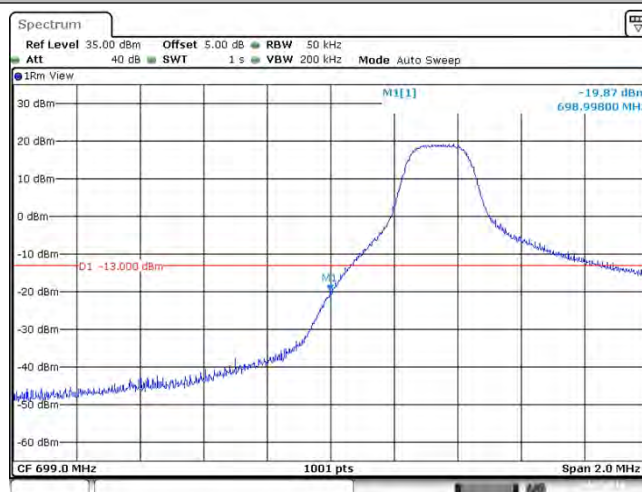
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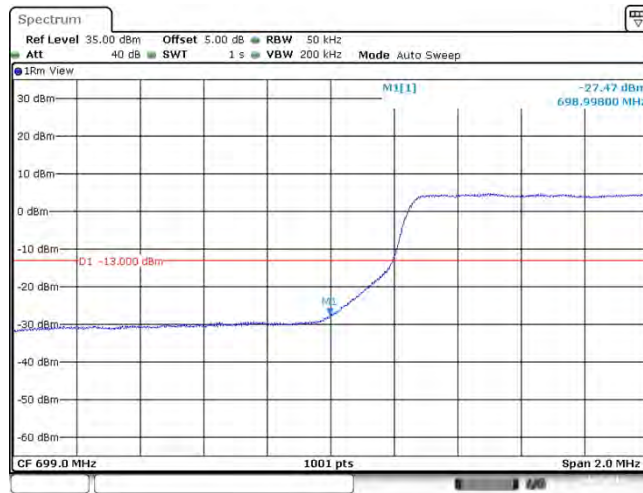
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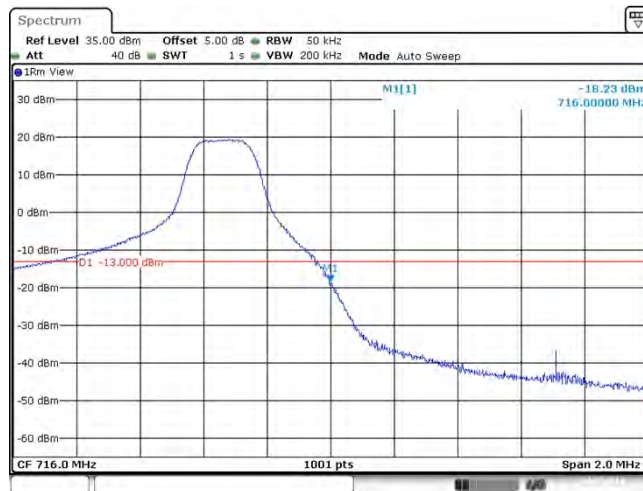
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BAND12_5MHz_64QAM_23155_25RB#0



Date: 24 JUL 2018 06:44:24

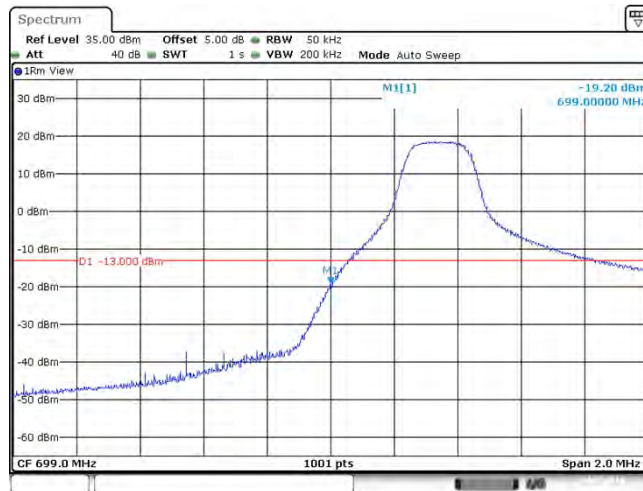
BAND12_5MHz_16QAM_23035_1RB#0



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Date: 24 JUL 2018 06:36:36

BAND12_5MHz_16QAM_23035_25RB#0



Date: 24 JUL 2018 06:41:21

BAND12_5MHz_16QAM_23155_1RB#24



Date: 24 JUL 2018 06:38:58

BAND12_5MHz_16QAM_23155_25RB#0



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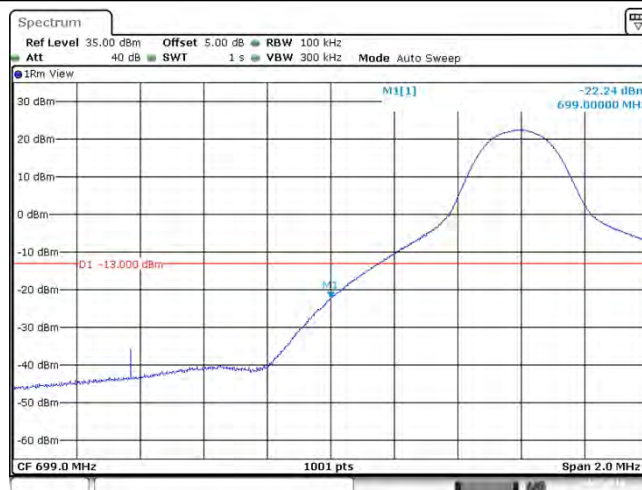
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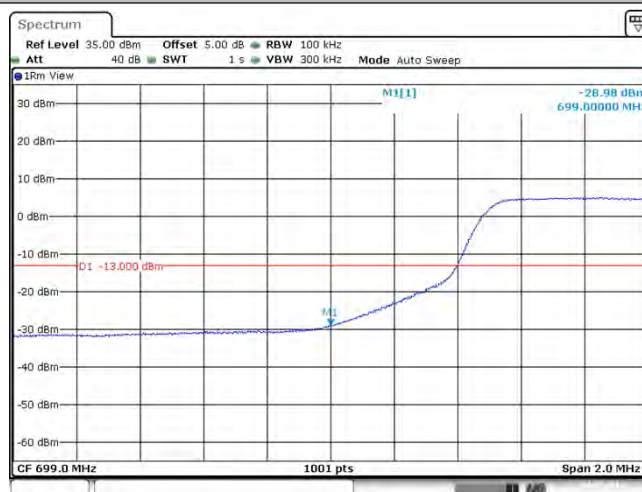
Date: 24 JUL 2018 06:43:39

BAND12_10MHz_QPSK_23060_1RB#0



Date: 24 JUL 2018 06:45:15

BAND12_10MHz_QPSK_23060_50RB#0



Date: 24 JUL 2018 06:50:00

BAND12_10MHz_QPSK_23130_1RB#49

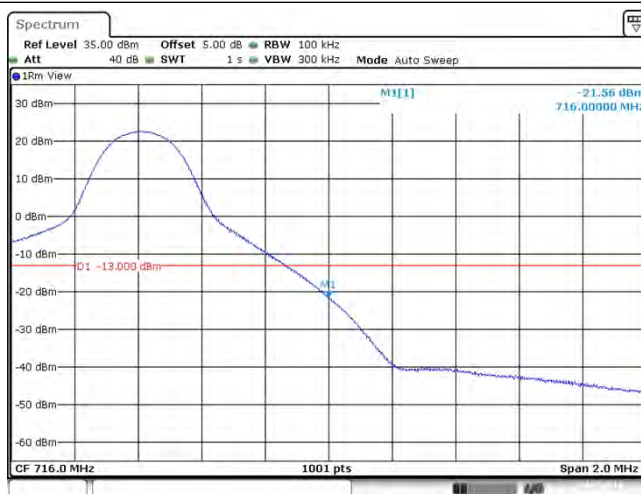
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Date: 24 JUL 2018 06:47:38

BAND12_10MHz_QPSK_23130_50RB#0



Date: 24 JUL 2018 06:52:17

BAND12_10MHz_64QAM_23060_1RB#0



Date: 24 JUL 2018 06:46:47

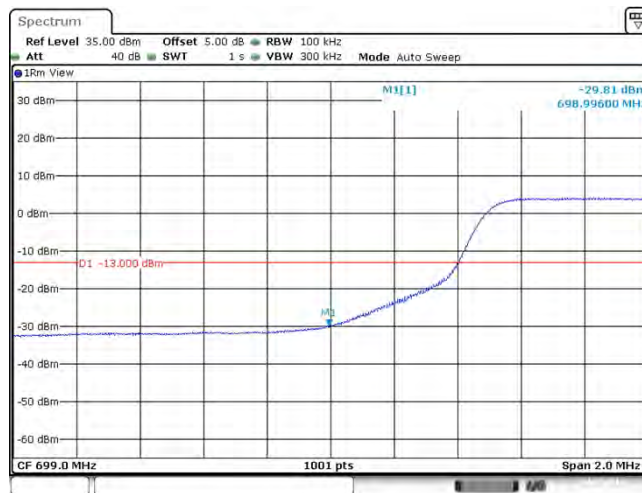
BAND12_10MHz_64QAM_23060_50RB#0



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Date: 24 JUL 2018 06:51:31

BAND12_10MHz_64QAM_23130_1RB#49



Date: 24 JUL 2018 06:49:99

BAND12_10MHz_64QAM_23130_50RB#0



Date: 24 JUL 2018 06:53:49

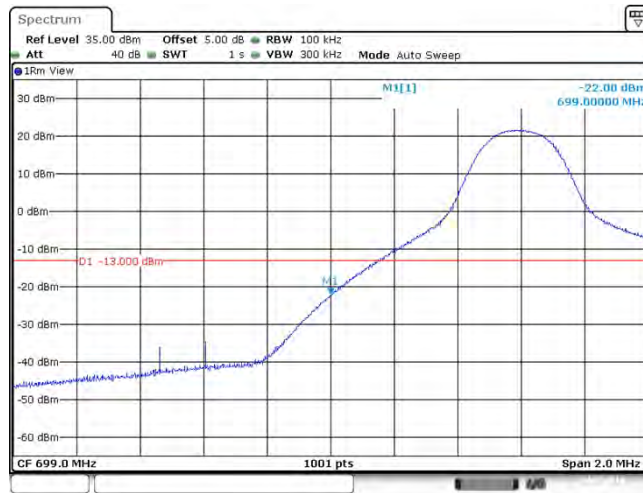
BAND12_10MHz_16QAM_23060_1RB#0



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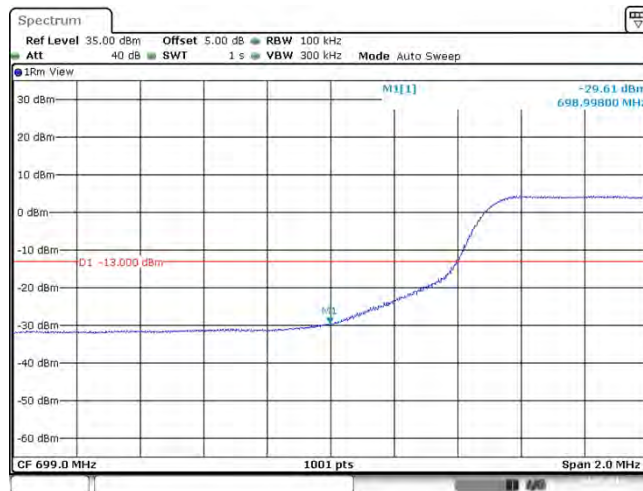
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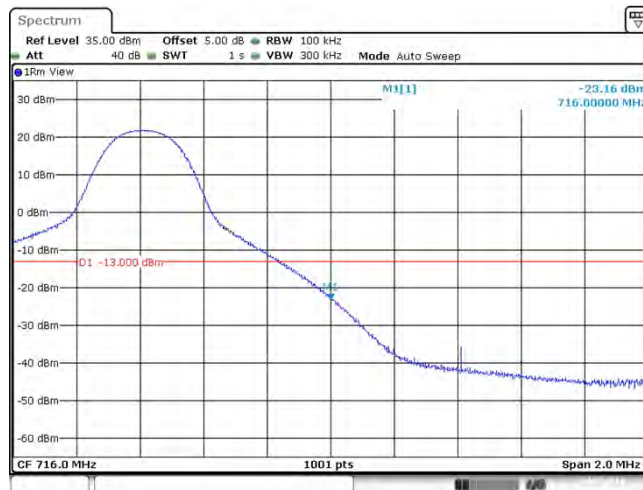
Date: 24 JUL 2018 06:46:02

BAND12_10MHz_16QAM_23060_50RB#0



Date: 24 JUL 2018 06:50:46

BAND12_10MHz_16QAM_23130_1RB#49



Date: 24 JUL 2018 06:48:24

BAND12_10MHz_16QAM_23130_50RB#0

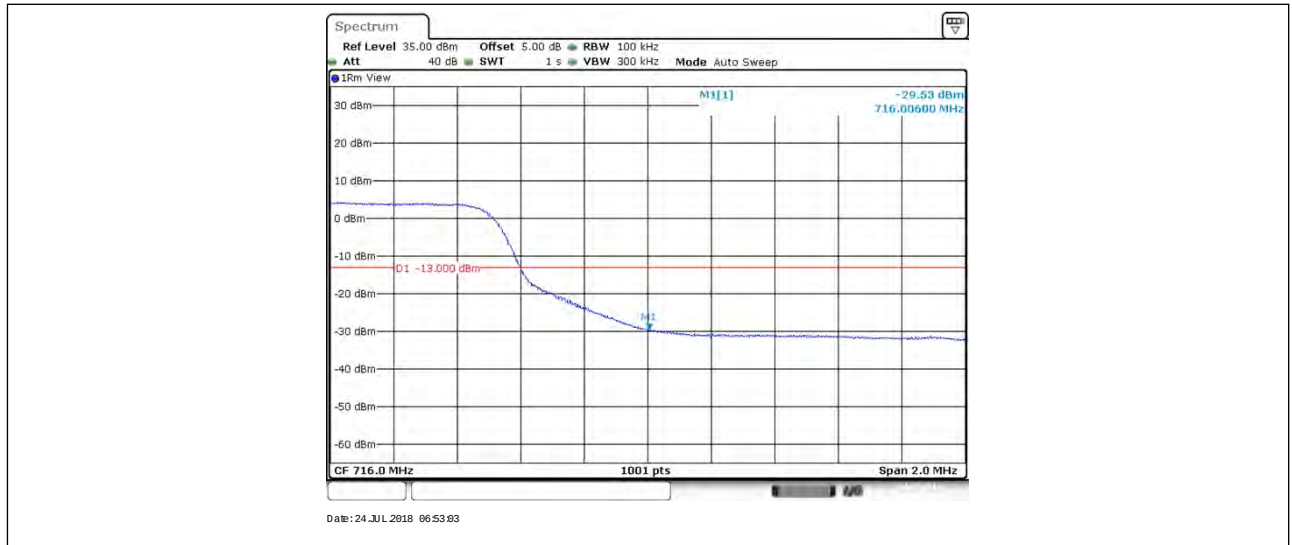
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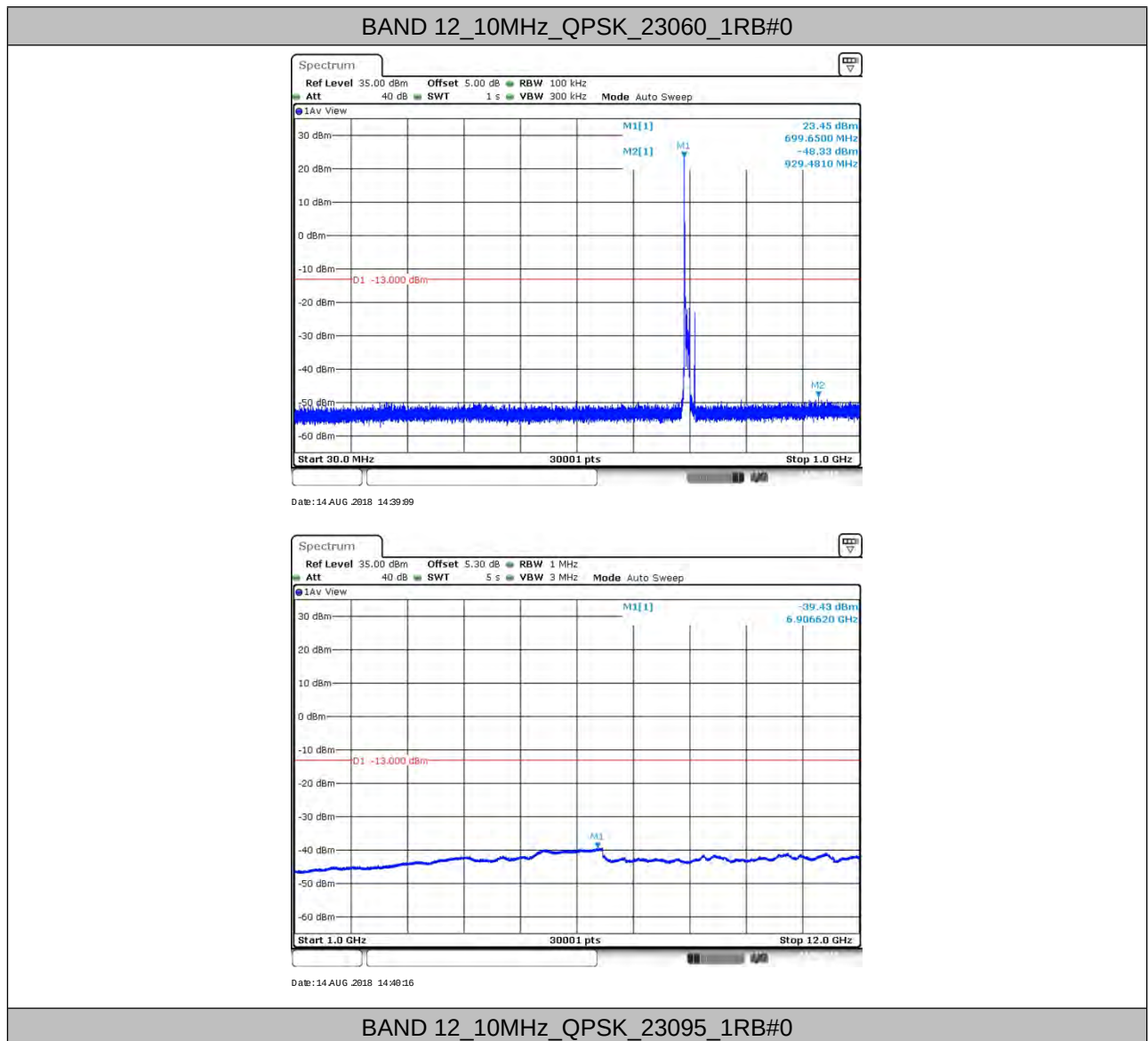


6. Spurious Emission at Antenna Terminal

NOTE1: 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 between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

6.1. Test Plots



Spectrum

Ref Level 35.00 dBm Offset 5.00 dB RBW 100 kHz
 Att 40 dB SWT 1 s VBW 300 kHz Mode Auto Sweep

1A View

30 dBm
 20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm

D1 -13.000 dBm

M2

M1[1]
 M2[1]
 M1

23.71 dBm
 703.0770 MHz
 -48.80 dBm
 246.0837 MHz

Start 30.0 MHz 30001 pts Stop 1.0 GHz

Spectrum

Ref Level 35.00 dBm Offset 5.00 dB RBW 100 kHz
 Att 40 dB SWT 1 s VBW 300 kHz Mode Auto Sweep

1A V View

30 dBm
 20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm

M1[1]
 M2[1]
 M1
 M2

23.36 dBm
 706.5360 MHz
 -48.81 dBm
 957.1260 MHz

D1 -13.000 dBm

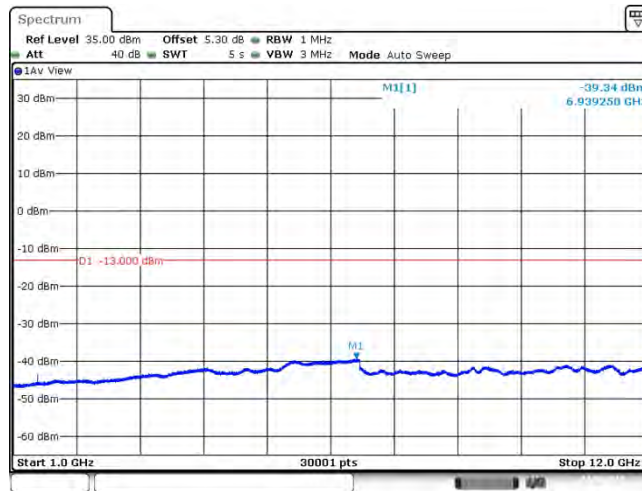
Start 30.0 MHz 30001 pts Stop 1.0 GHz



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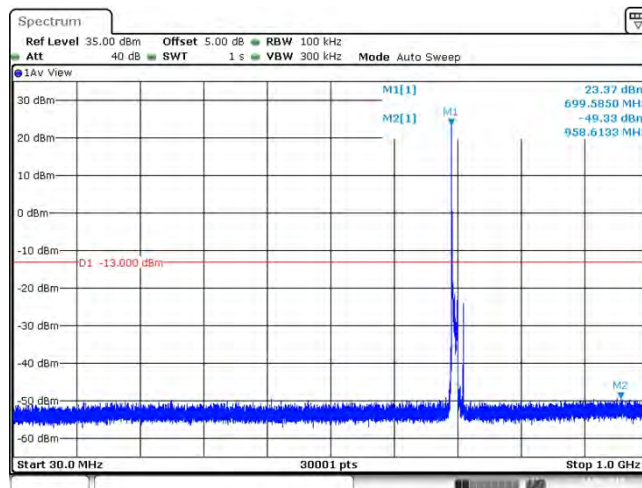
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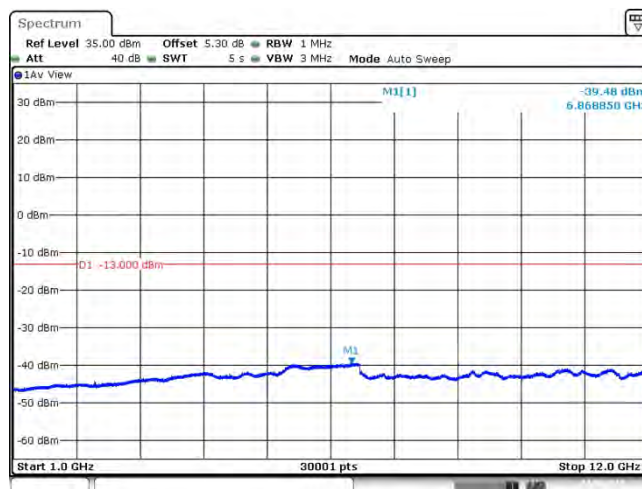


Date: 14 AUG 2018 14:45:58

BAND 12_10MHz_16QAM_23060_1RB#0



Date: 14 AUG 2018 14:46:33



Date: 14 AUG 2018 14:41:46

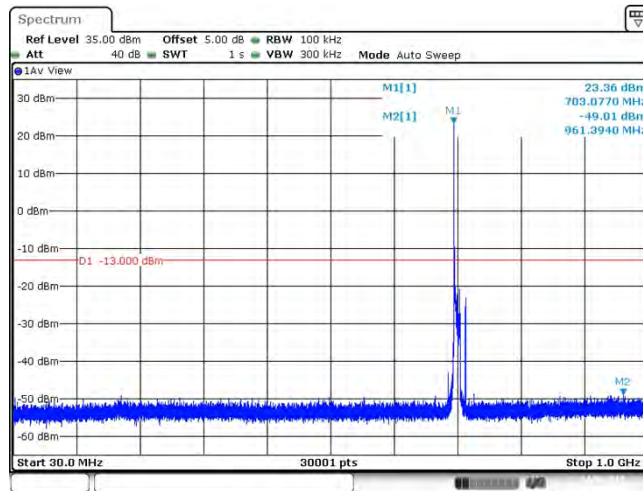
BAND 12_10MHz_16QAM_23095_1RB#0



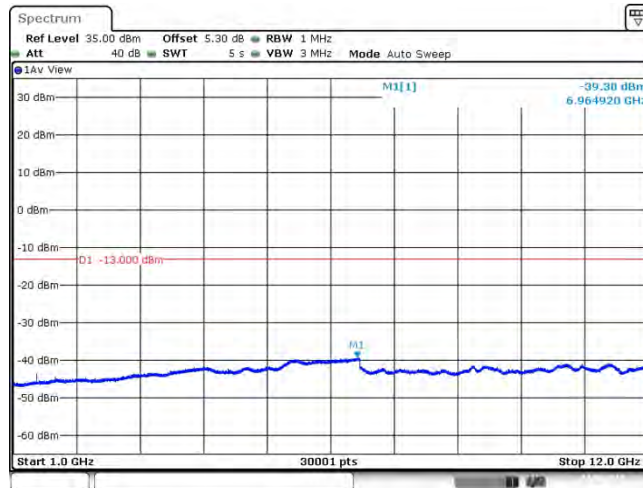
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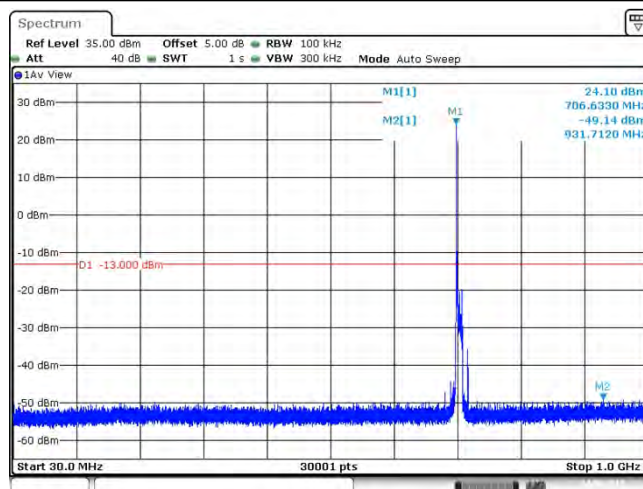


Date: 14 AUG 2018 14:43:24



Date: 14 AUG 2018 14:44:31

BAND 12_10MHz_16QAM_23130_1RB#0



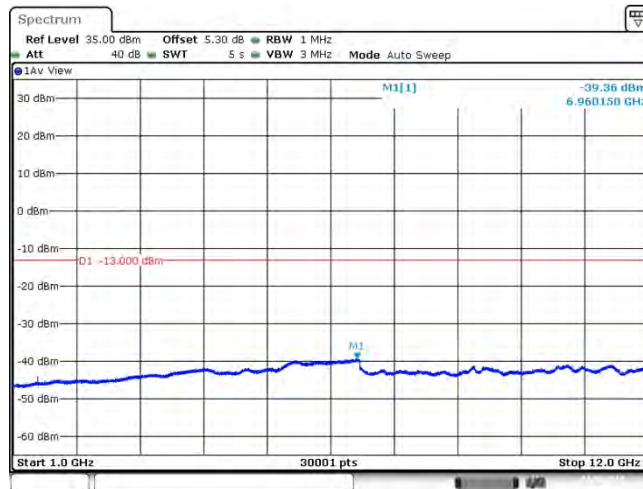
Date: 14 AUG 2018 14:46:15



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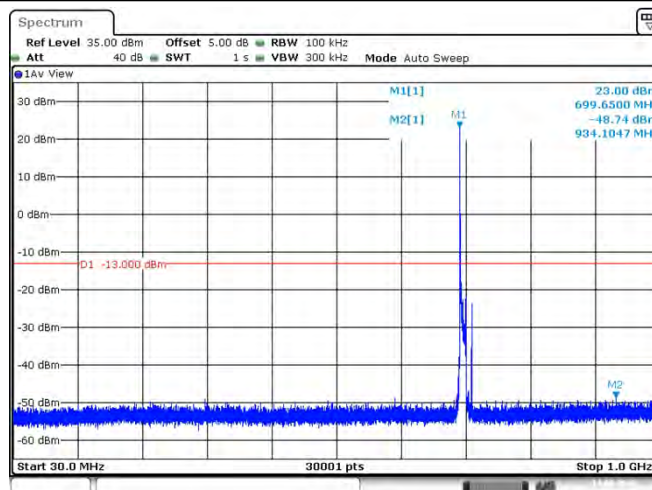
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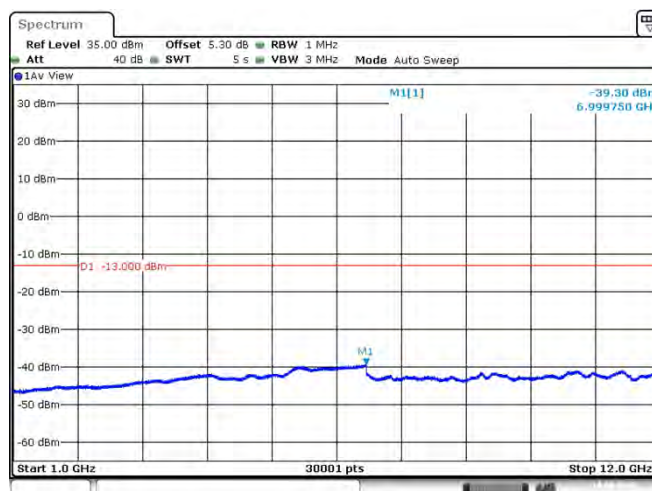


Date: 14 AUG 2018 14:47:22

BAND 12_10MHz_64QAM_23060_1RB#0



Date: 14 AUG 2018 15:11:57



Date: 14 AUG 2018 15:13:94

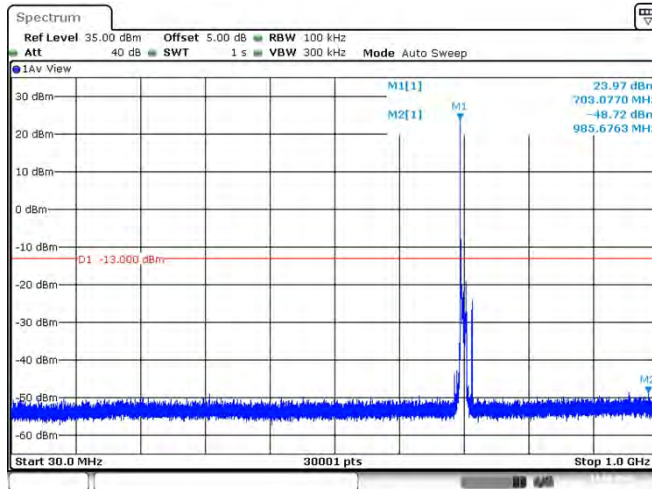
BAND 12_10MHz_64QAM_23095_1RB#0



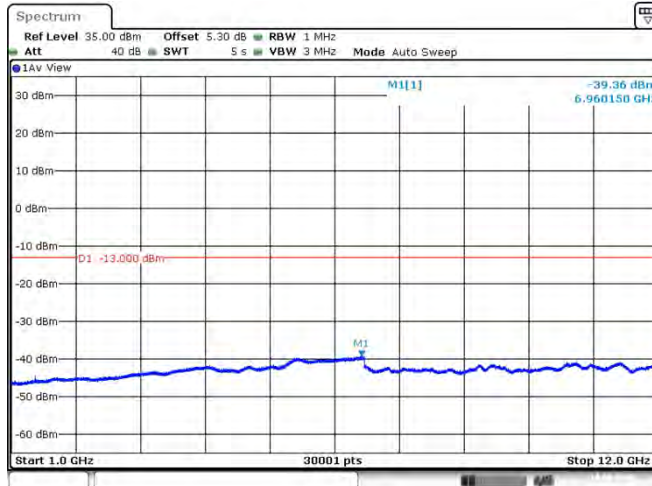
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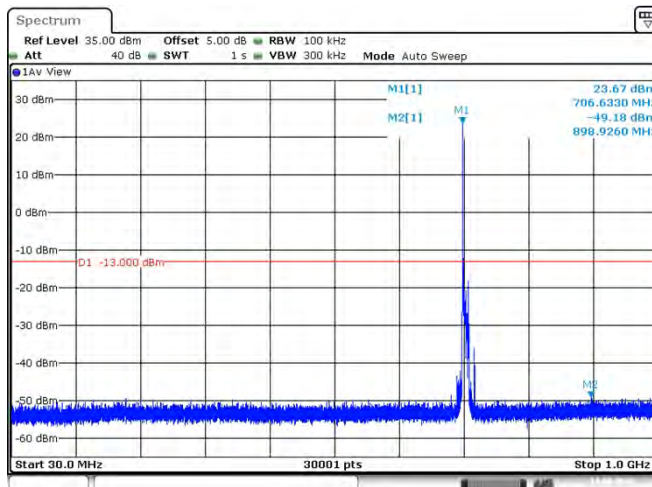


Date: 14 AUG 2018 15:13:24



Date: 14 AUG 2018 15:14:31

BAND 12_10MHz_64QAM_23130_1RB#0



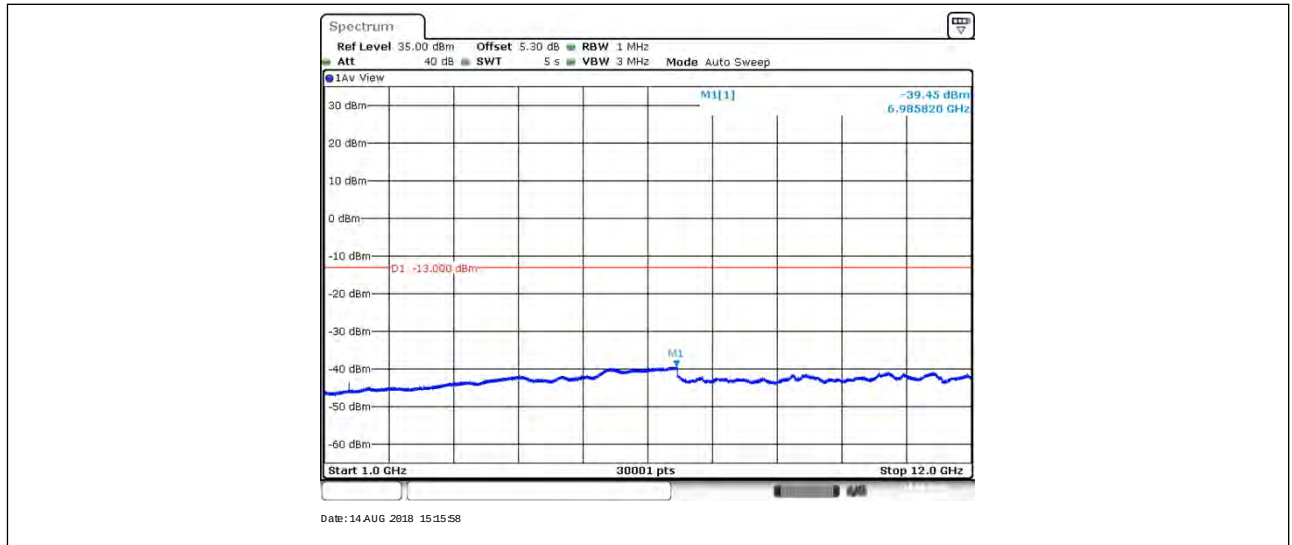
Date: 14 AUG 2018 15:14:59



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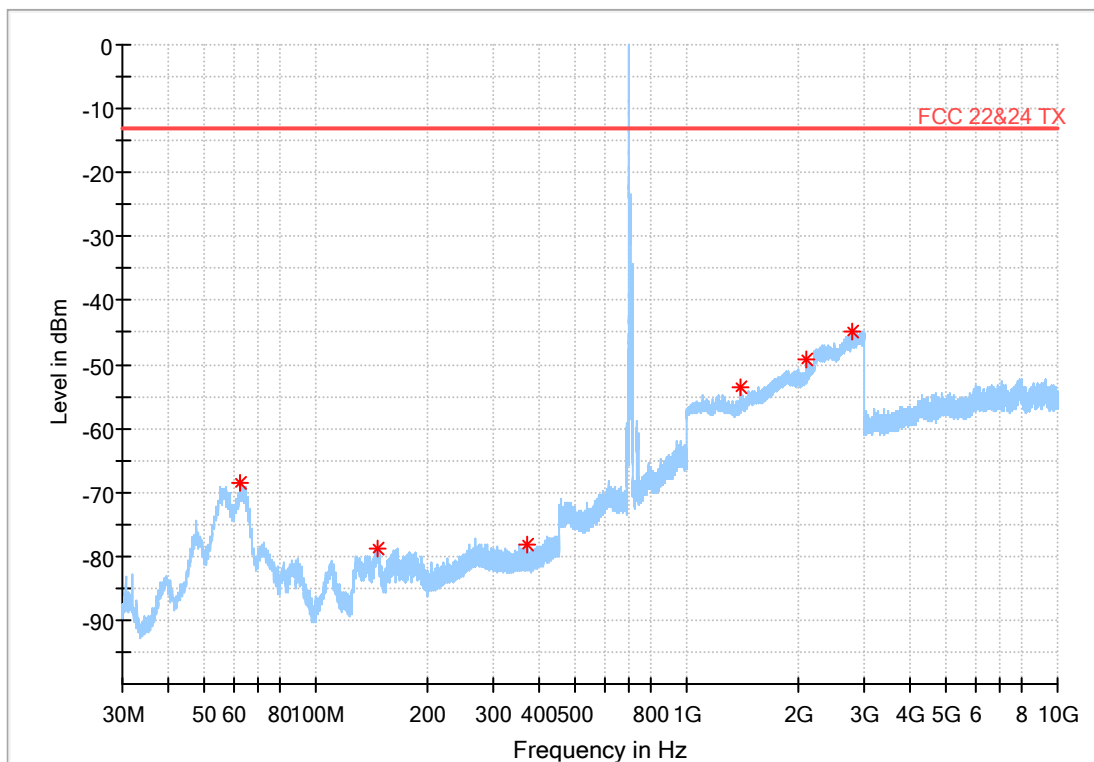
7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 12-Main Antenna

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH_H

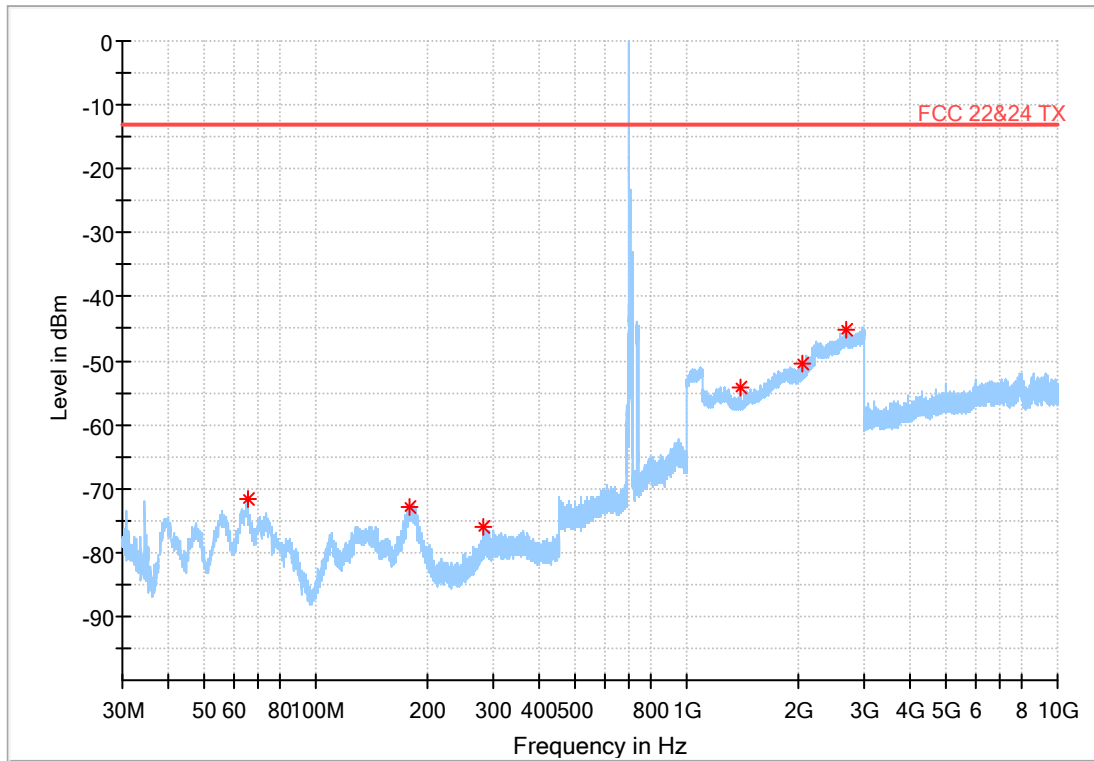
Full Spectrum





7.1.1.2. Test Channel = LCH_V

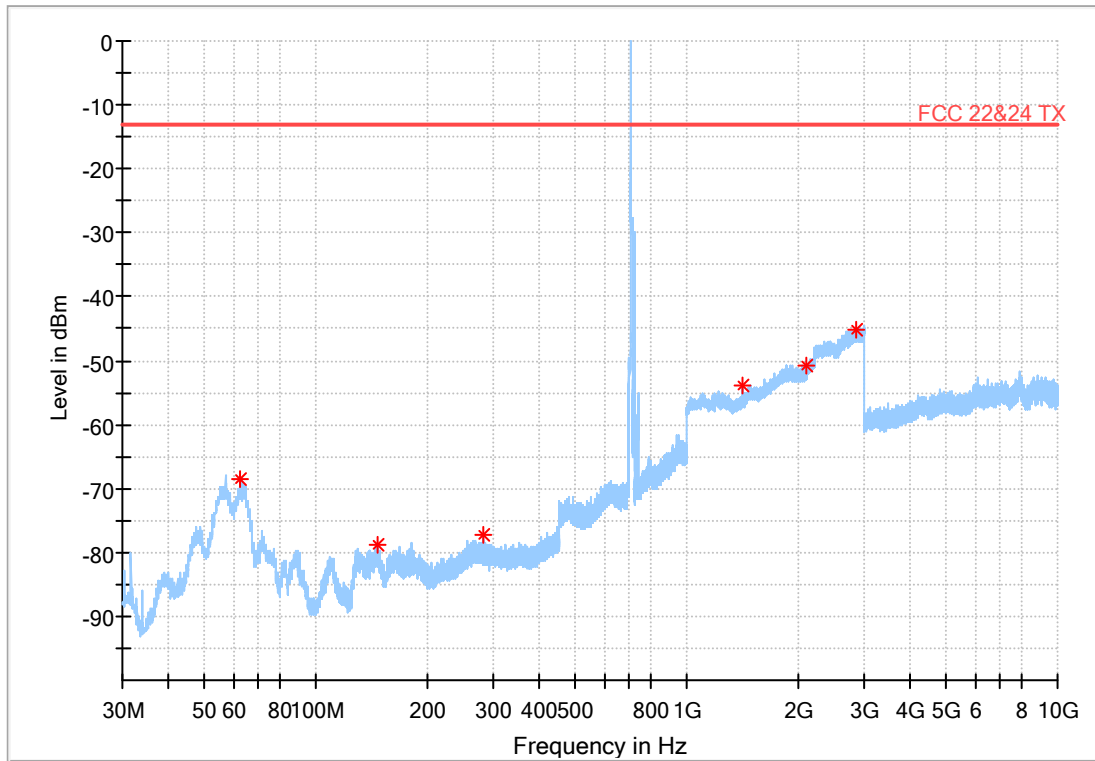
Full Spectrum





7.1.1.3. Test Channel = MCH_H

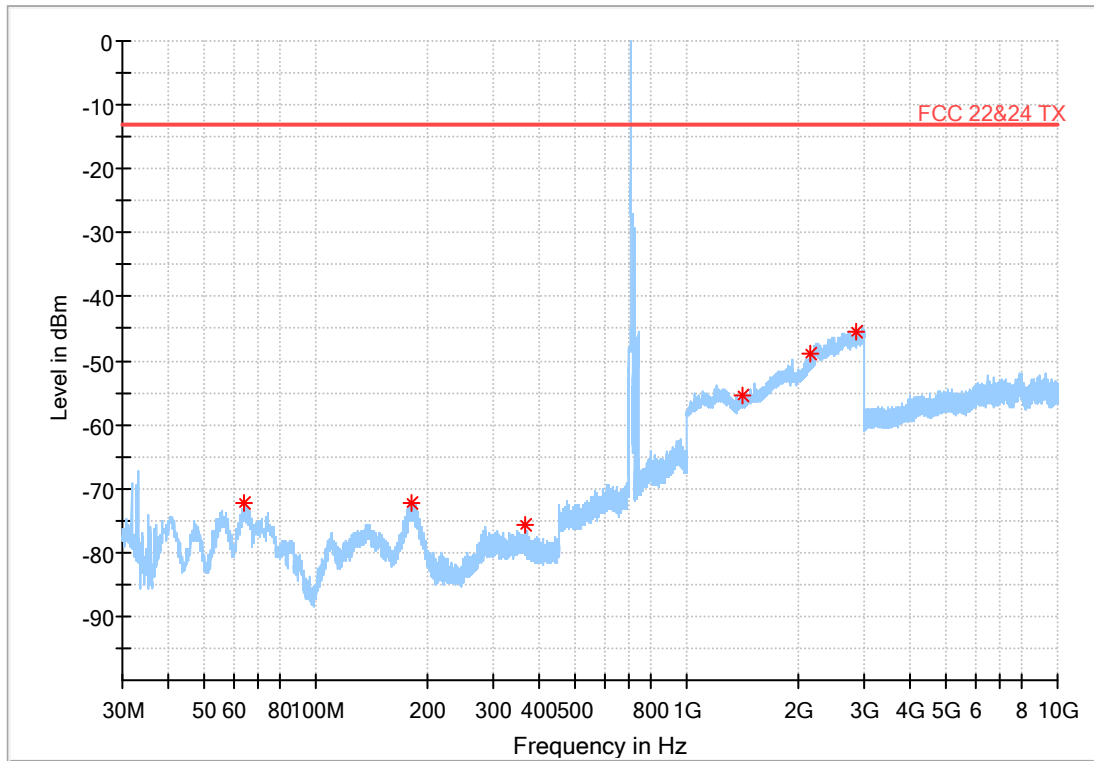
Full Spectrum





7.1.1.4. Test Channel = MCH_V

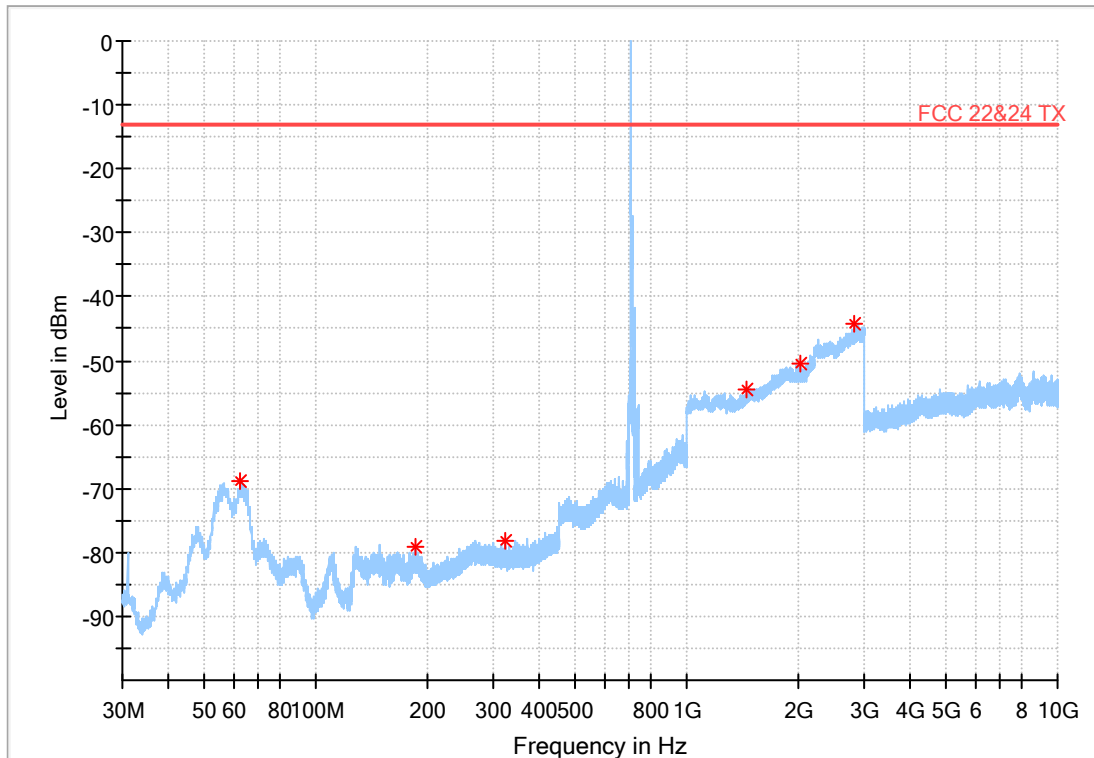
Full Spectrum





7.1.1.5. Test Channel = HCH_H

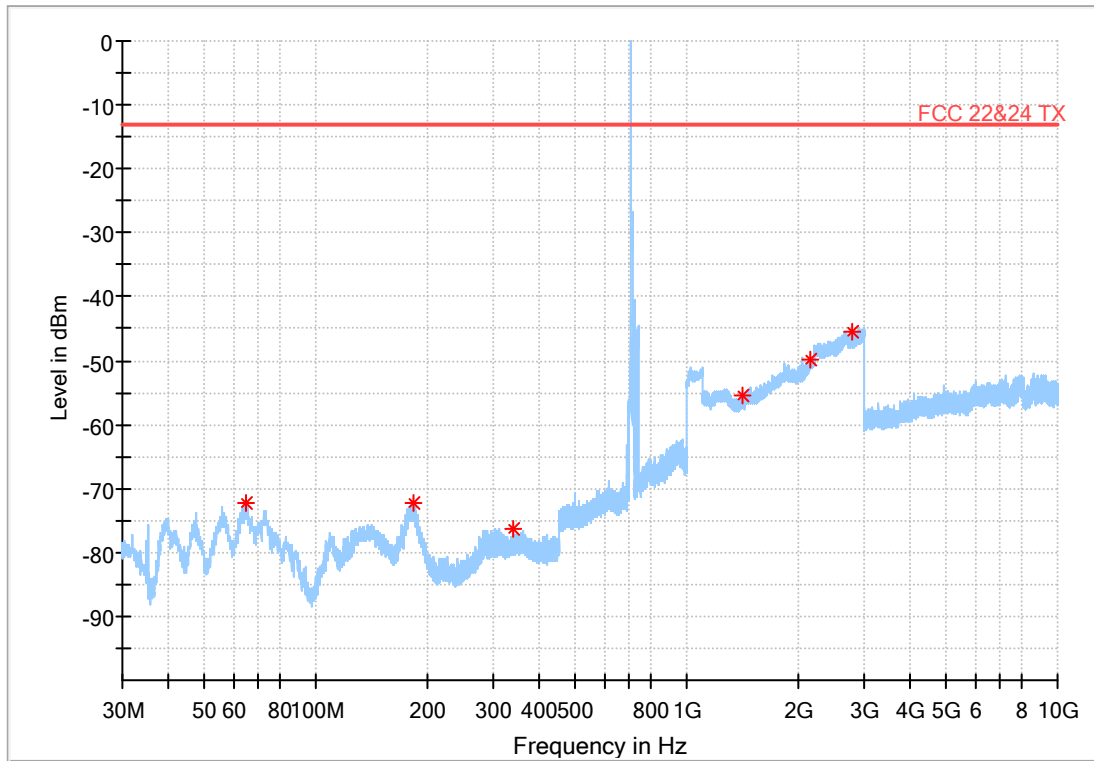
Full Spectrum





7.1.1.6. Test Channel = HCH_V

Full Spectrum



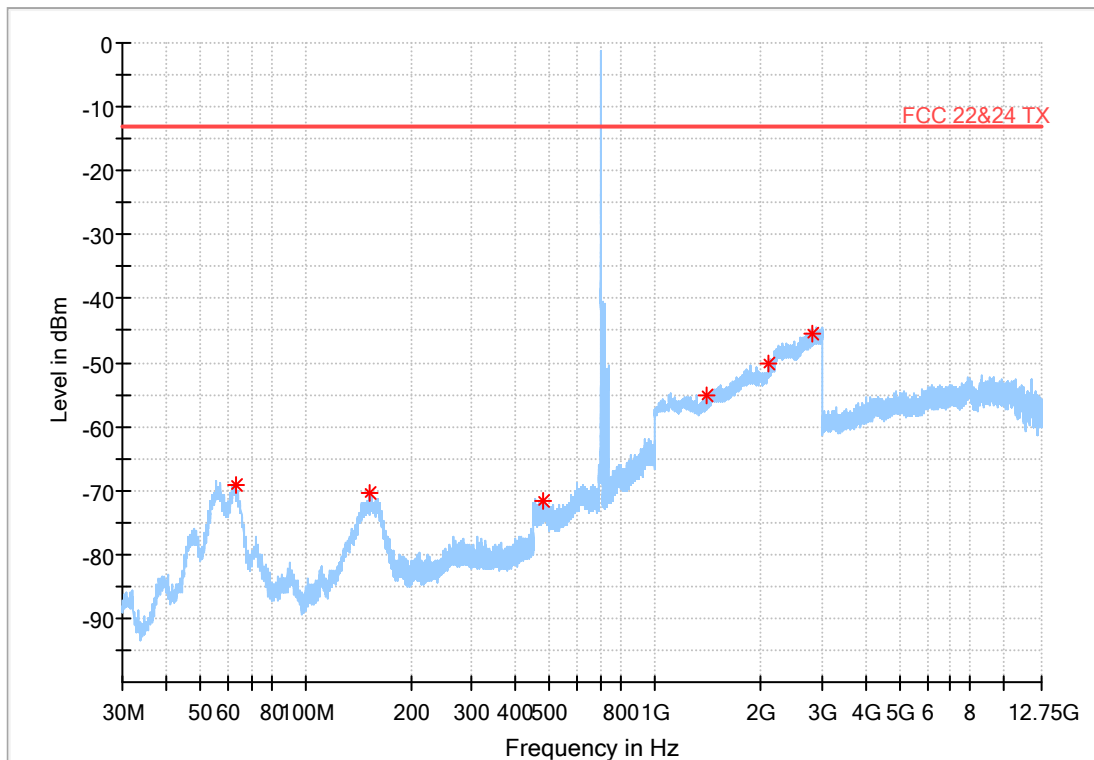


7.2. Test BAND = LTE BAND 12-Second Antenna

7.2.1. Test Mode =LTE/TM1 10MHz

7.2.1.1. Test Channel = LCH_H

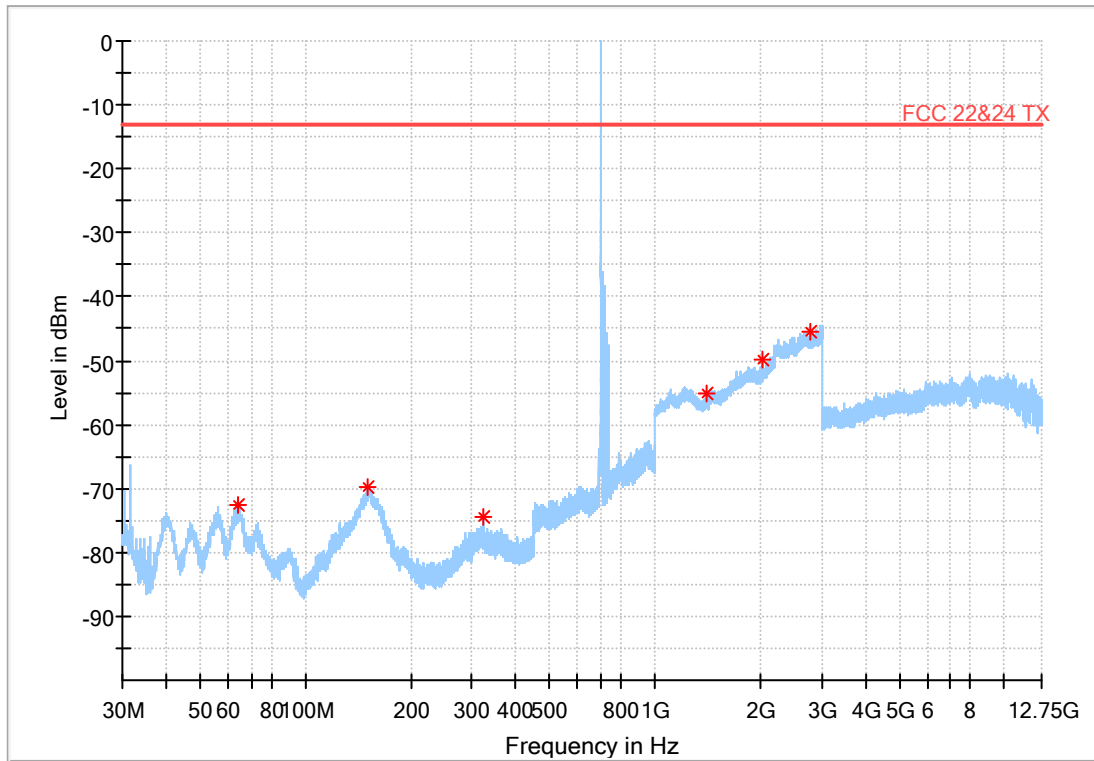
Full Spectrum





7.2.1.2. Test Channel = LCH_V

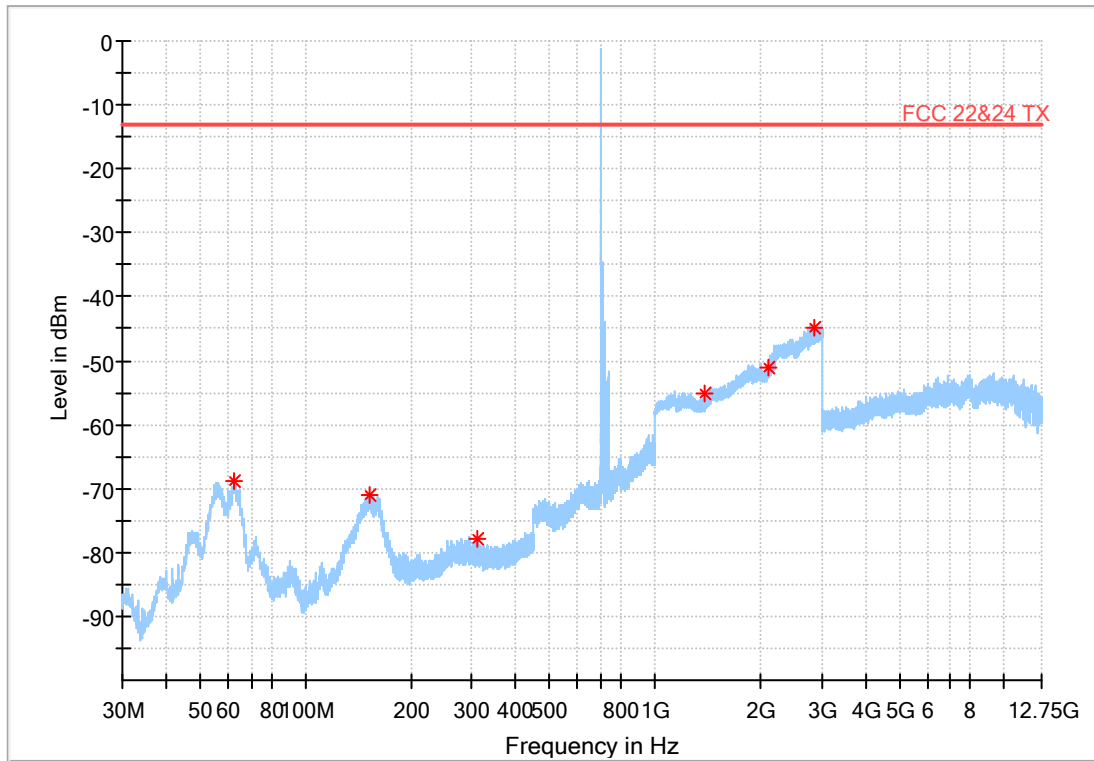
Full Spectrum





7.2.1.3. Test Channel = MCH_H

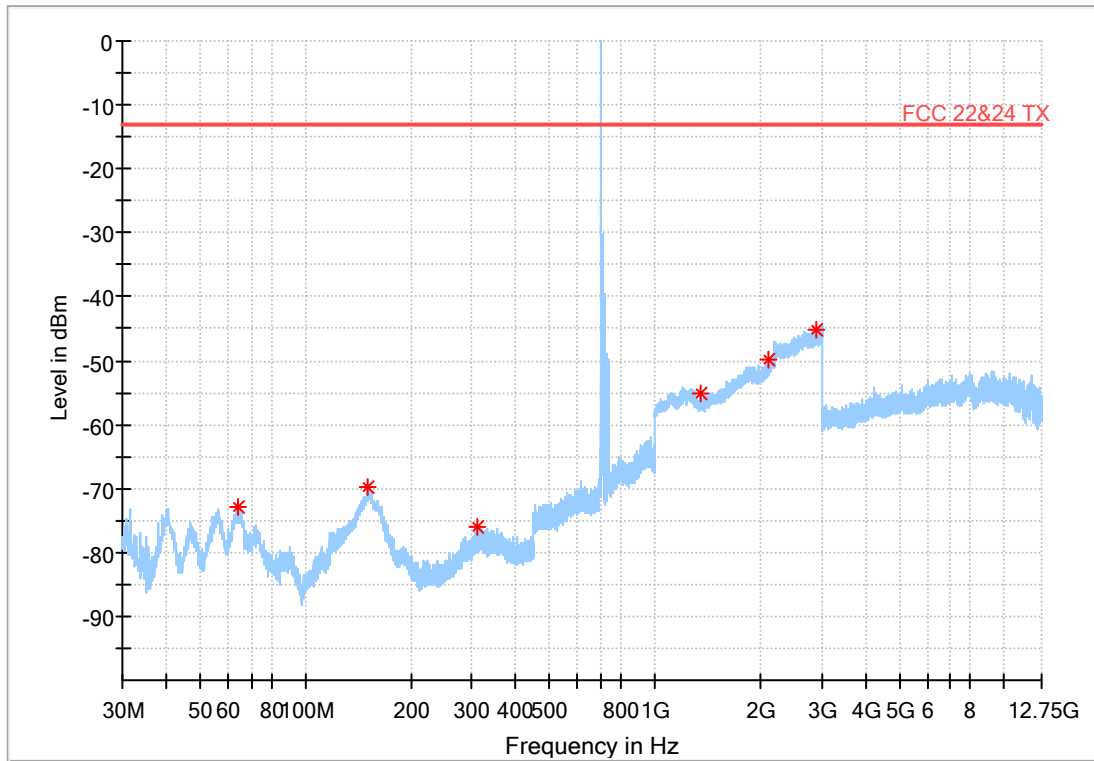
Full Spectrum





7.2.1.4. Test Channel = MCH_V

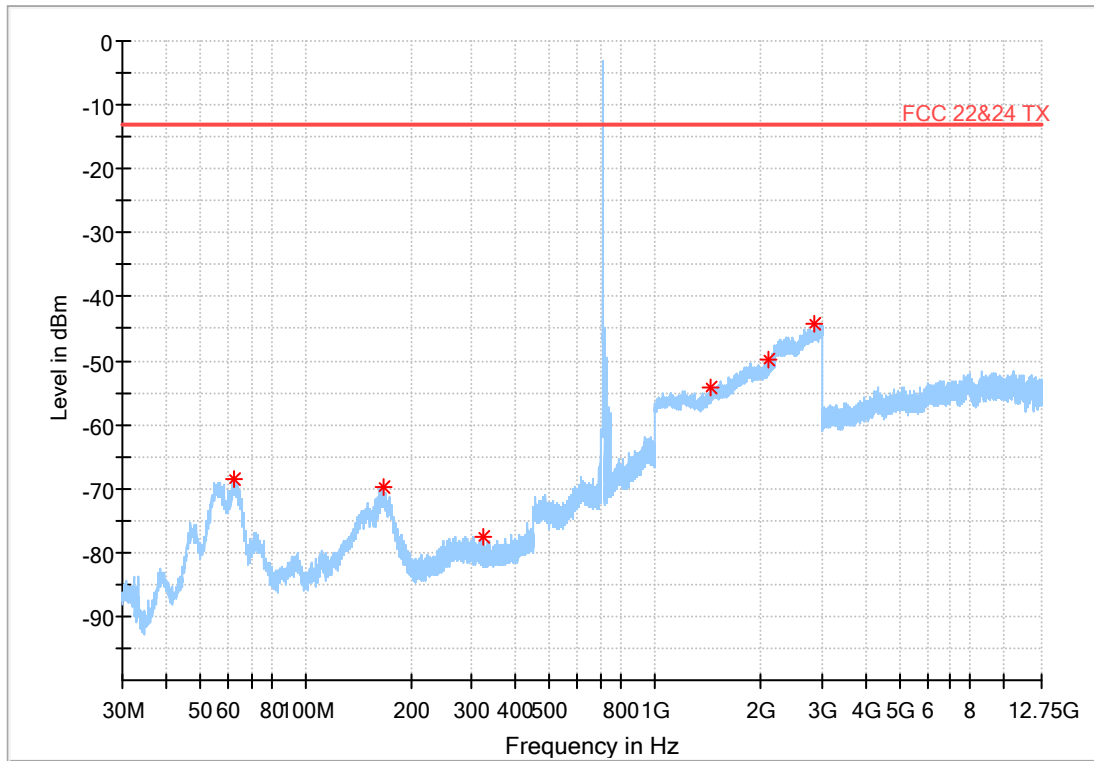
Full Spectrum





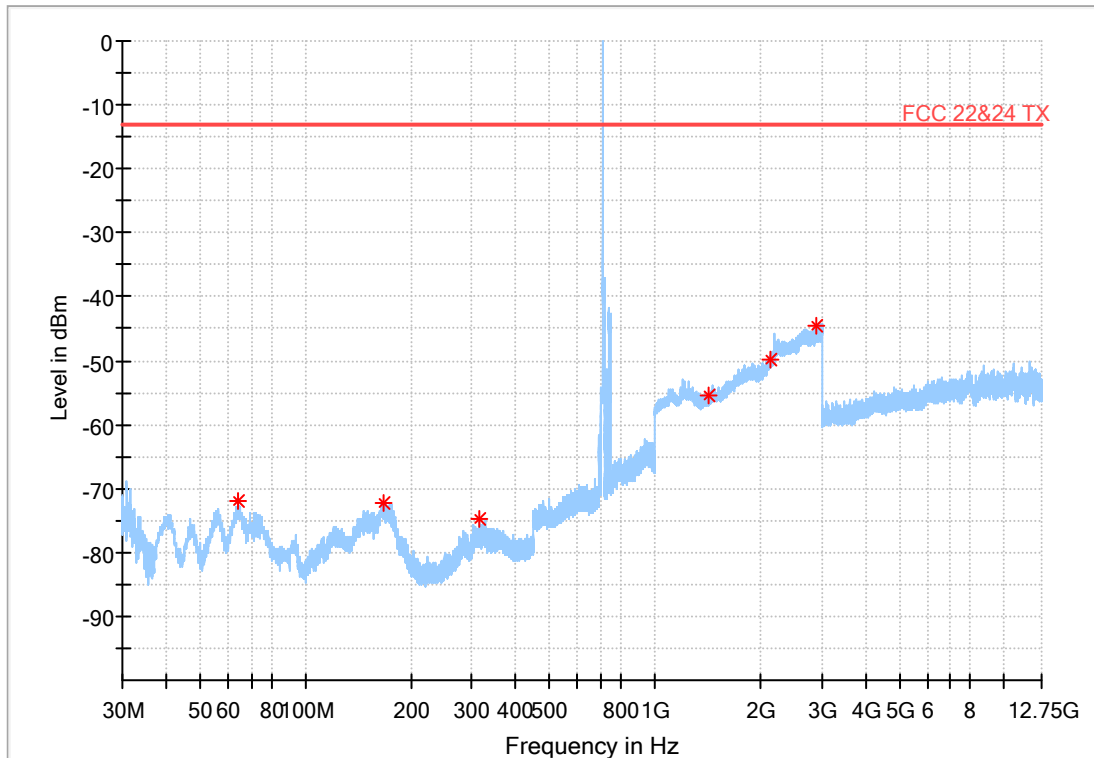
7.2.1.5. Test Channel = HCH_H

Full Spectrum



7.2.1.6. Test Channel = HCH_V

Full Spectrum



NOTE:

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



8. Frequency Stability

9.1. 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	1.20	0.001705	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	VN	NT	1.00	0.001420	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	VH	NT	0.50	0.000710	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	VL	NT	0.20	0.000283	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.20	-0.000283	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	VH	NT	0.20	0.000283	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	VL	NT	-0.40	-0.000563	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	VN	NT	-0.40	-0.000563	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	VL	NT	7.10	0.010085	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	VN	NT	6.50	0.009233	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	VH	NT	8.50	0.012074	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	VL	NT	0.80	0.001131	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	VN	NT	0.60	0.000848	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	VH	NT	0.20	0.000283	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	VL	NT	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	VN	NT	0.10	0.000141	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	VH	NT	0.50	0.000703	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	VL	NT	1.10	0.001563	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	VN	NT	0.80	0.001136	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	VH	NT	1.40	0.001989	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	VL	NT	-0.30	-0.000424	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	VN	NT	0.30	0.000424	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	VH	NT	-0.30	-0.000424	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	VL	NT	0.20	0.000281	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	VN	NT	-0.20	-0.000281	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	VH	NT	-0.30	-0.000422	±2.5	PASS

9.2. 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	0.80	0.001136	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	NV	-20	0.40	0.000568	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	NV	0	1.00	0.001420	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	NV	10	1.30	0.001847	±2.5	PASS
BAND12	10MHz	QPSK	23060	50RB#0	NV	20	0.60	0.000852	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.30	-0.000424	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	NV	0	-0.30	-0.000424	±2.5	PASS
BAND12	10MHz	QPSK	23095	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS

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BAND12	10MHz	QPSK	23095	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	NV	-30	-0.40	-0.000563	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	NV	-20	-0.20	-0.000281	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	NV	0	-0.20	-0.000281	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	QPSK	23130	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	NV	-30	6.80	0.009659	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	NV	-20	7.30	0.010369	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	NV	0	3.70	0.005256	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	NV	10	2.70	0.003835	±2.5	PASS
BAND12	10MHz	64QAM	23060	50RB#0	NV	20	5.70	0.008097	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	NV	-30	0.20	0.000283	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	NV	-20	0.20	0.000283	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	NV	0	-0.20	-0.000283	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	NV	10	1.10	0.001555	±2.5	PASS
BAND12	10MHz	64QAM	23095	50RB#0	NV	20	0.50	0.000707	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	NV	-30	-0.40	-0.000563	±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	-1.00	-0.001406	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	NV	10	-0.20	-0.000281	±2.5	PASS
BAND12	10MHz	64QAM	23130	50RB#0	NV	20	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	NV	-30	0.70	0.000994	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	NV	-20	0.50	0.000710	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	NV	0	1.20	0.001705	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	NV	10	0.30	0.000426	±2.5	PASS
BAND12	10MHz	16QAM	23060	50RB#0	NV	20	1.50	0.002131	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	NV	0	0.20	0.000283	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	16QAM	23095	50RB#0	NV	20	0.70	0.000989	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	NV	-30	-0.70	-0.000985	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	NV	-20	-0.50	-0.000703	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	NV	0	-0.10	-0.000141	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	NV	10	0.20	0.000281	±2.5	PASS
BAND12	10MHz	16QAM	23130	50RB#0	NV	20	0.20	0.000281	±2.5	PASS

The End