



Appendix B

E-UTRA Band 17



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1. Effective (Isotropic) Radiated Power

1.1. Test Result for Down Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.70	16.59	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.80	16.69	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.78	16.67	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.87	15.76	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.81	15.70	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.75	15.64	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.78	15.67	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.73	16.62	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.84	16.73	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.90	16.79	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.79	15.68	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.88	15.77	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.92	15.81	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.76	15.65	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.69	16.58	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.69	16.58	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.72	16.61	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.83	15.72	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.71	15.60	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.77	15.66	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.64	15.53	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.09	14.98	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.91	14.80	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.00	14.89	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	21.05	13.94	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.94	13.83	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.81	13.70	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.07	13.96	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.08	14.97	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.00	14.89	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.80	14.69	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	21.11	14.00	34.77	PASS



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Band17	5MHz	64QAM	23790	12RB#6	21.02	13.91	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	21.13	14.02	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.81	13.70	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.14	15.03	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.14	15.03	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.10	14.99	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.05	13.94	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	21.14	14.03	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.16	14.05	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.96	13.85	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.85	15.74	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.92	15.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.06	15.95	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.88	14.77	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.85	14.74	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.90	14.79	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.83	14.72	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.99	15.88	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.84	15.73	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.06	15.95	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.83	14.72	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.84	14.73	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.84	14.73	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.82	14.71	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.89	15.78	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.78	15.67	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.95	15.84	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.71	14.60	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.65	14.54	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.82	14.71	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.61	14.50	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.68	16.57	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.72	16.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.90	16.79	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.81	15.70	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.86	15.75	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.86	15.75	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.77	15.66	34.77	PASS



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Band17	10MHz	QPSK	23790	1RB#0	23.66	16.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.64	16.53	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.81	16.70	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.72	15.61	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.71	15.60	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.89	15.78	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.72	15.61	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.82	16.71	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.77	16.66	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.80	16.69	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.84	15.73	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.71	15.60	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.84	15.73	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.68	15.57	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.97	14.86	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.20	15.09	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	14.81	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.87	13.76	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	21.10	13.99	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.01	13.90	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.09	13.98	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.02	14.91	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.93	14.82	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.05	14.94	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.10	13.99	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.98	13.87	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.17	14.06	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.10	13.99	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.85	14.74	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.96	14.85	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.85	14.74	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.09	13.98	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.09	13.98	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.00	13.89	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.15	14.04	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.84	15.73	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.69	15.58	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.01	15.90	34.77	PASS



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Band17	10MHz	16QAM	23780	25RB#0	21.81	14.70	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.83	14.72	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.89	14.78	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.82	14.71	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.82	15.71	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.70	15.59	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.96	15.85	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.78	14.67	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.68	14.57	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.92	14.81	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.74	14.63	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.95	15.84	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.72	15.61	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.97	15.86	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.84	14.73	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.67	14.56	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.85	14.74	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.65	14.54	34.77	PASS

1.2. Test Result for Up Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.75	16.63	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.81	16.69	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.69	16.57	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.89	15.77	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.87	15.75	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.66	15.54	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.80	15.68	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.69	16.57	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.86	16.74	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.79	16.67	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.75	15.63	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.82	15.70	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.78	15.66	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	15.63	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.72	16.60	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.83	16.71	34.77	PASS



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Band17	5MHz	QPSK	23825	1RB#24	23.70	16.58	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.82	15.70	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.70	15.58	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.78	15.66	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.77	15.65	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.69	14.57	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.56	14.44	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.81	14.69	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.83	13.71	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.84	13.72	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.70	13.58	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.79	13.67	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.92	14.80	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.92	14.80	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.77	14.65	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.86	13.74	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.85	13.73	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.75	13.63	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.81	13.69	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.95	14.83	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.80	14.68	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.05	14.93	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.78	13.66	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.77	13.65	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.89	13.77	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.80	13.68	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.87	15.75	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.84	15.72	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.83	15.71	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.80	14.68	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.85	14.73	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.69	14.57	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.79	14.67	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.84	15.72	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.73	15.61	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.84	15.72	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.79	14.67	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.79	14.67	34.77	PASS



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Band17	5MHz	16QAM	23790	12RB#13	21.65	14.53	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.79	14.67	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.81	15.69	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.82	15.70	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.14	16.02	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.66	14.54	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.65	14.53	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.83	14.71	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.79	14.67	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.73	16.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.49	16.37	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.75	16.63	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.83	15.71	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.72	15.60	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.62	15.50	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.77	15.65	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.84	16.72	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.59	16.47	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.79	16.67	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.73	15.61	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.75	15.63	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.85	15.73	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.83	15.71	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.73	16.61	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.57	16.45	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.67	16.55	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.73	15.61	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.72	15.60	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.81	15.69	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.75	15.63	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.75	14.63	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.71	14.59	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.77	14.65	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.81	13.69	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.73	13.61	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.57	13.45	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.73	13.61	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.69	14.57	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#24	21.77	14.65	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.94	14.82	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.82	13.70	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.81	13.69	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.73	13.61	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.84	13.72	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.96	14.84	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.61	14.49	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.91	14.79	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.84	13.72	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.74	13.62	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.80	13.68	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.81	13.69	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.90	15.78	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.73	15.61	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.78	15.66	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.85	14.73	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.73	14.61	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.68	14.56	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.79	14.67	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.96	15.84	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.86	15.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.89	15.77	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.70	14.58	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.78	14.66	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.59	14.47	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.79	14.67	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.81	15.69	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.69	15.57	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.72	15.60	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.69	14.57	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.71	14.59	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.78	14.66	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.78	14.66	34.77	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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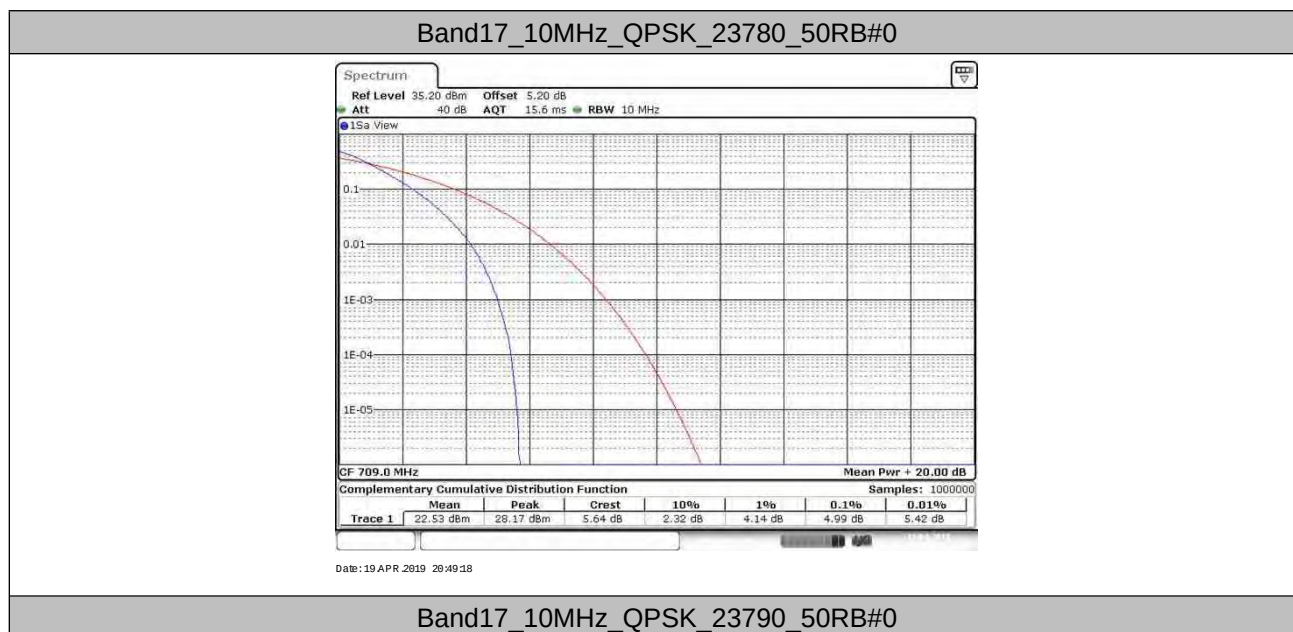
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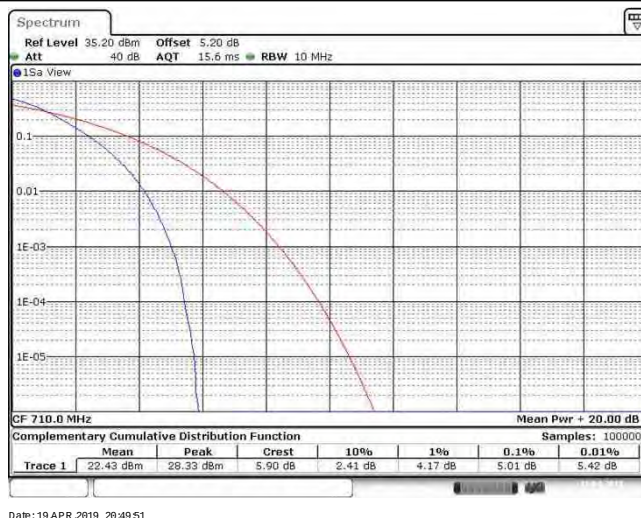
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.99	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.01	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.87	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	5.83	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	5.86	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	5.77	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.86	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.88	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.77	13	PASS

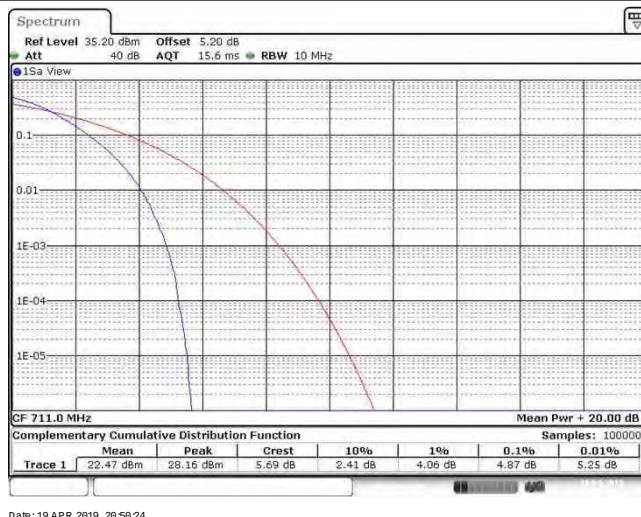
2.2. Test Plots





Date: 19 APR 2019 20:49:51

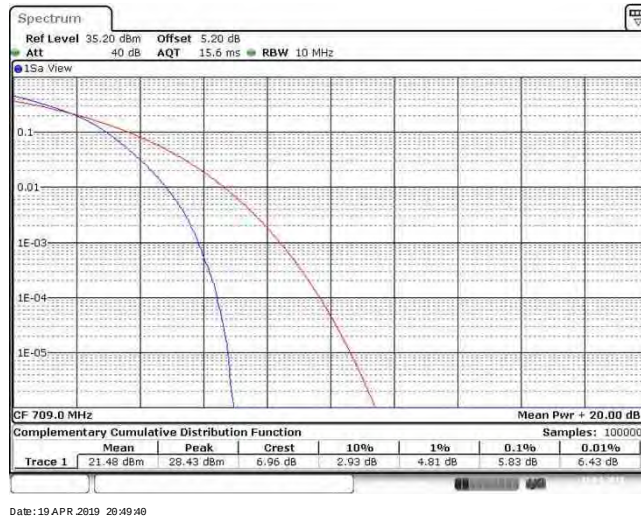
Band17_10MHz_QPSK_23800_50RB#0



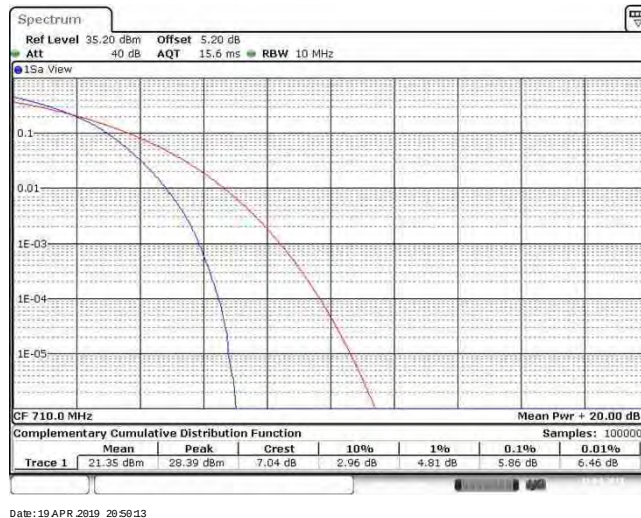
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Band17_10MHz_64QAM_23780_50RB#0





Band17_10MHz_64QAM_23790_50RB#0



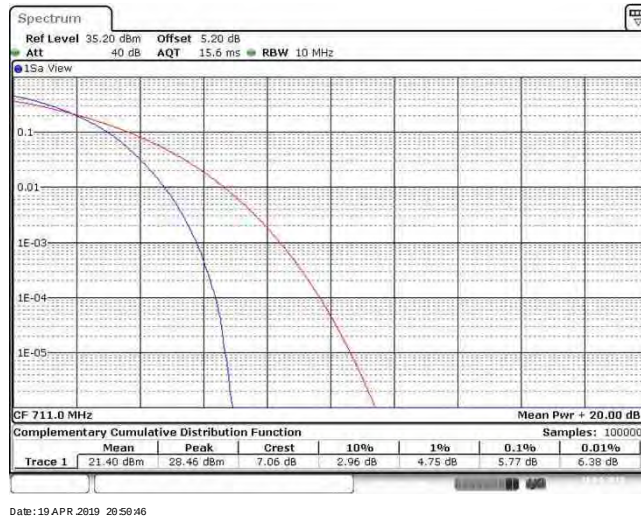
Band17_10MHz_64QAM_23800_50RB#0



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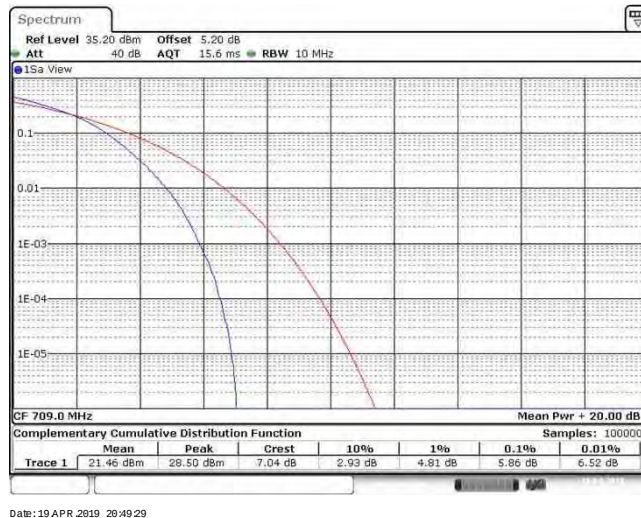
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Date: 19 APR 2019 20:50:46

Band17_10MHz_16QAM_23780_50RB#0



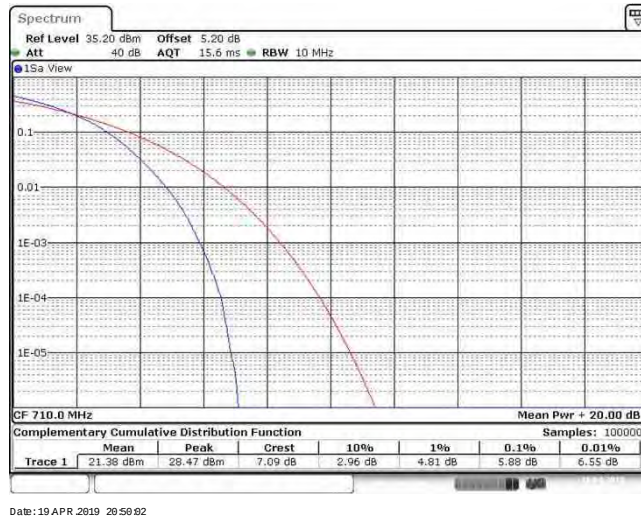
Date: 19 APR 2019 20:49:29

Band17_10MHz_16QAM_23790_50RB#0

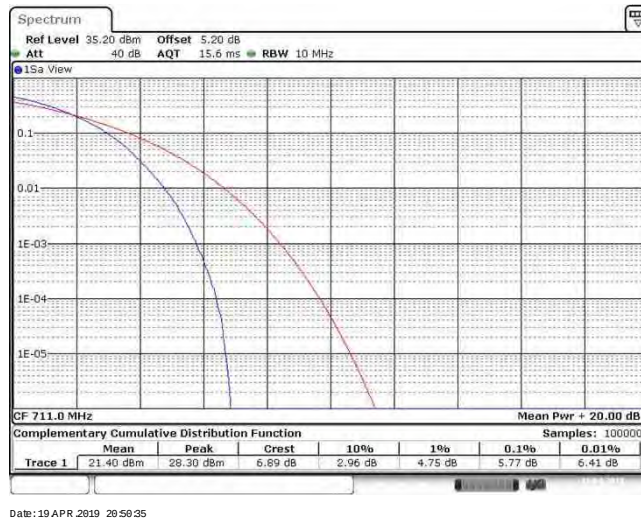


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Band17_10MHz_16QAM_23800_50RB#0



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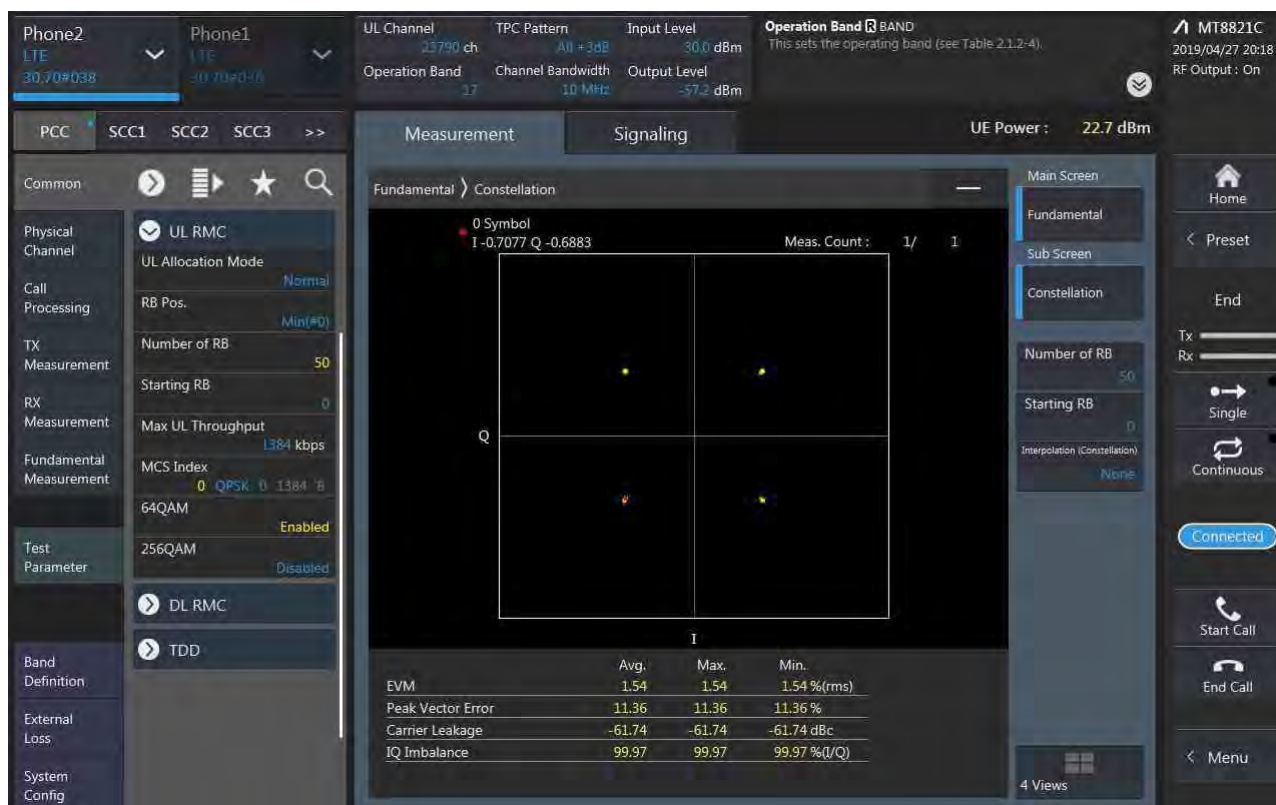
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 17

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH



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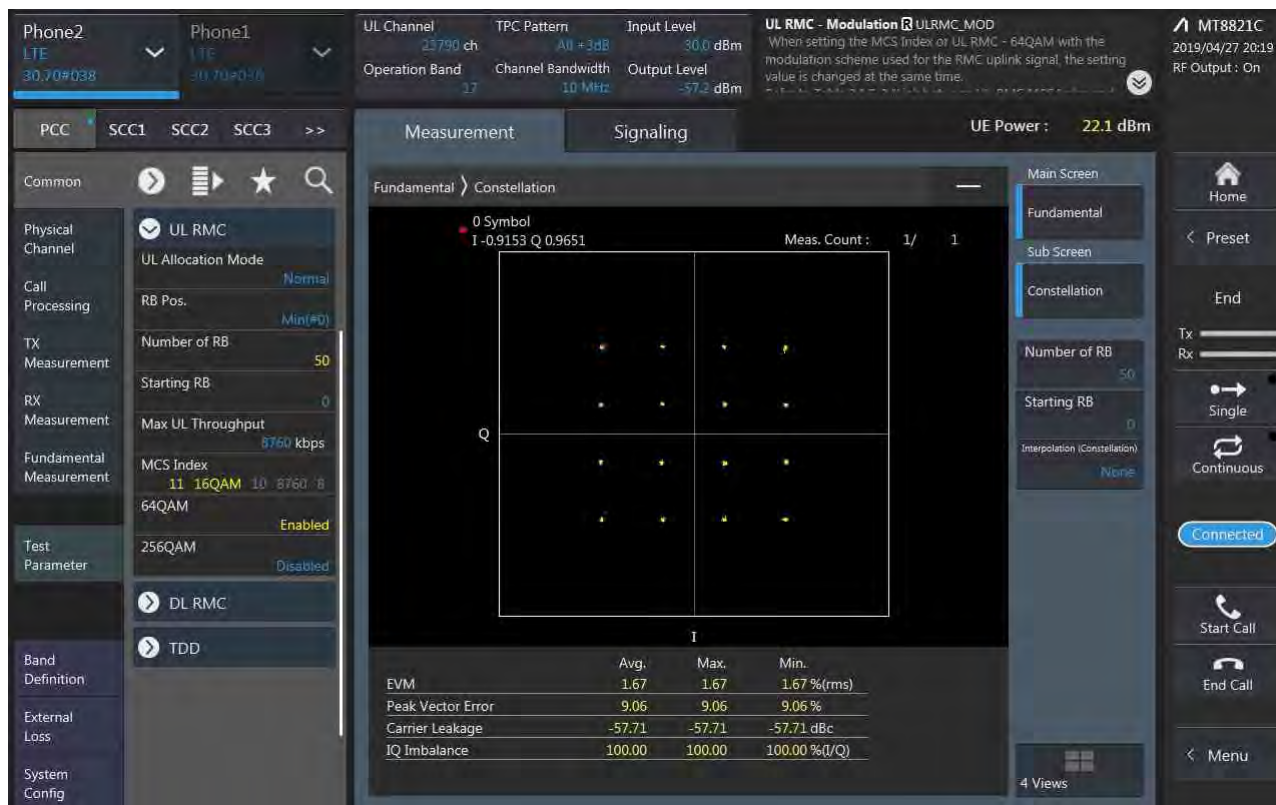
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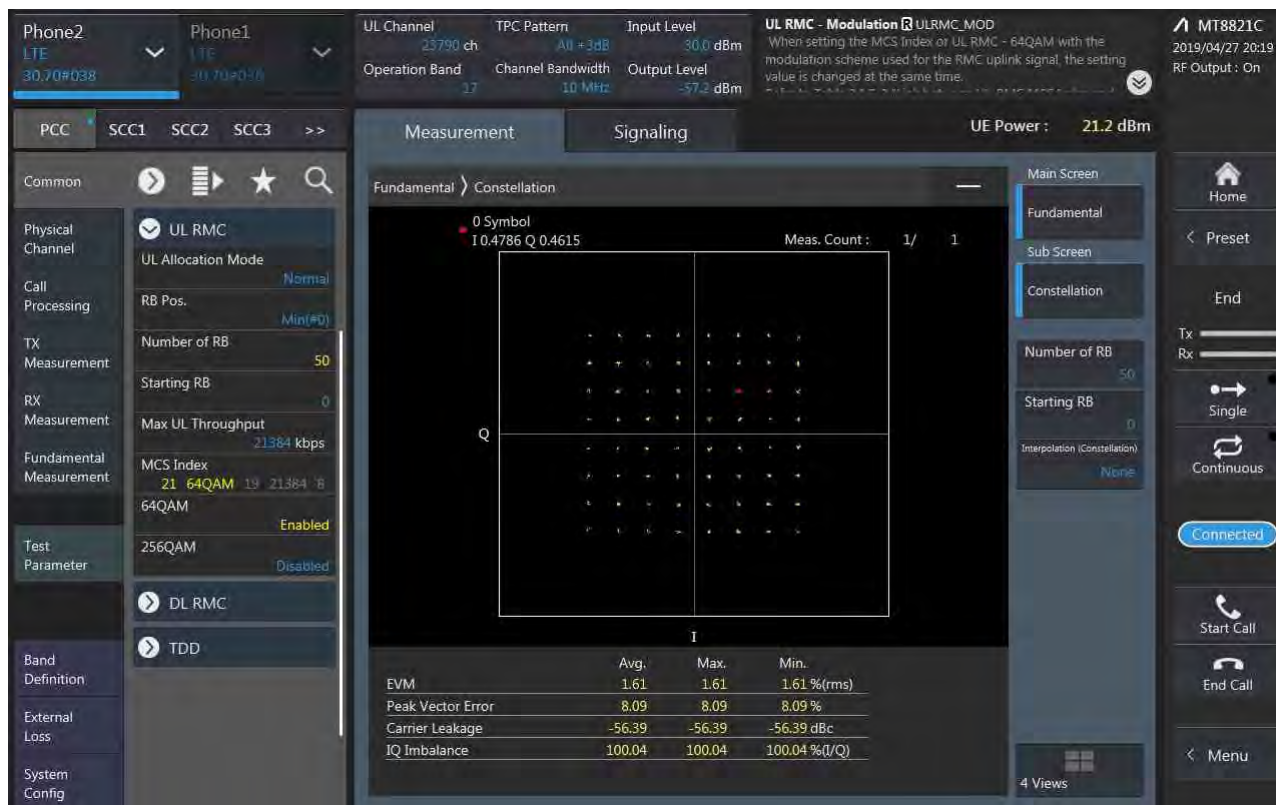
3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH



3.4. Test Mode = LTE /TM3 10MHz

3.4.1. 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
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.910	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.466	4.890	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.456	4.830	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.910	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.880	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.446	4.870	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	4.910	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	4.900	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.456	4.880	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.840	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.820	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.911	9.720	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.971	9.820	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.931	9.760	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.720	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.971	9.840	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.931	9.760	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.931	9.720	PASS



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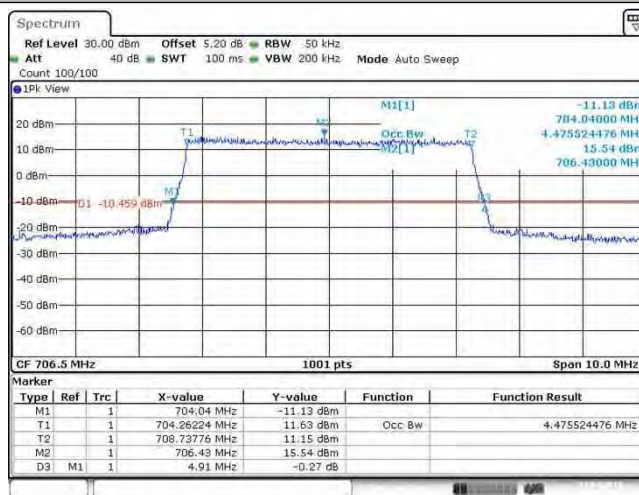
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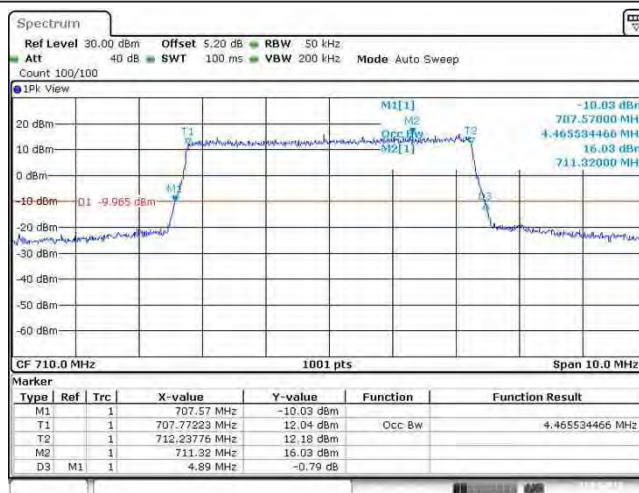
4.2. Test Plots

Band17_5MHz_QPSK_23755_25RB#0



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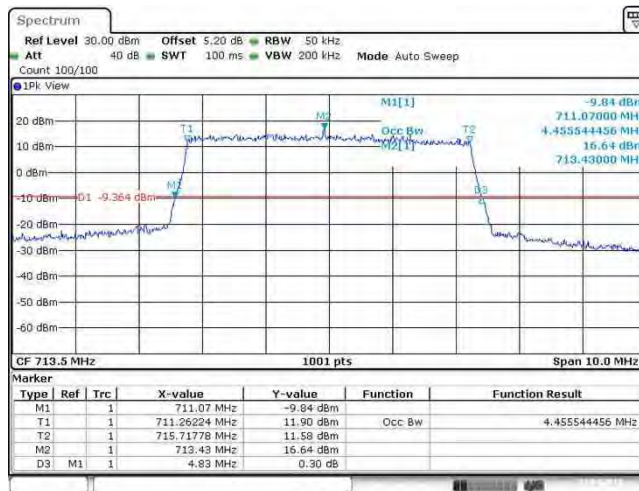
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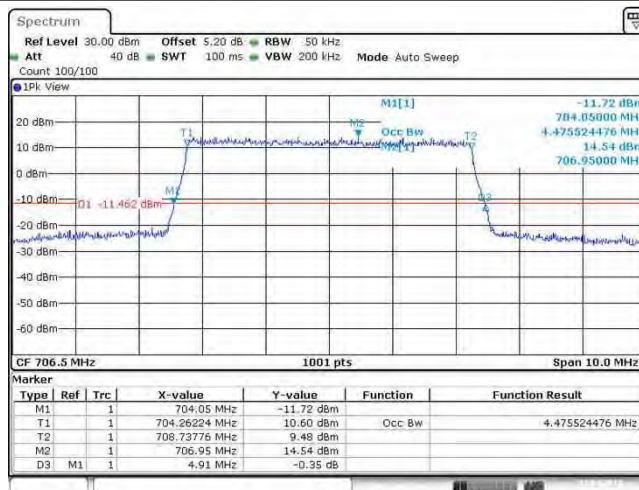
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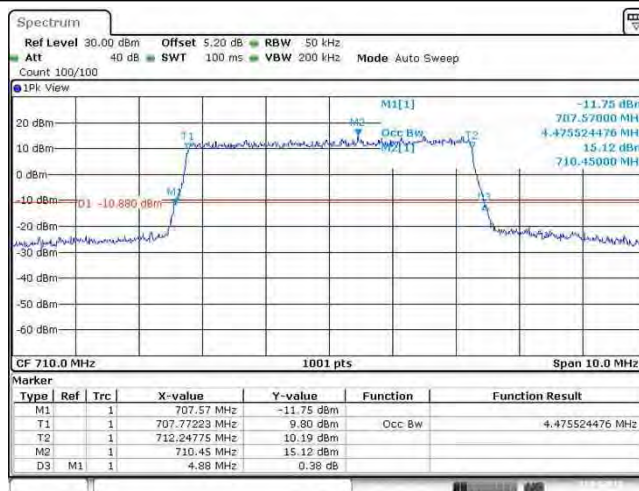
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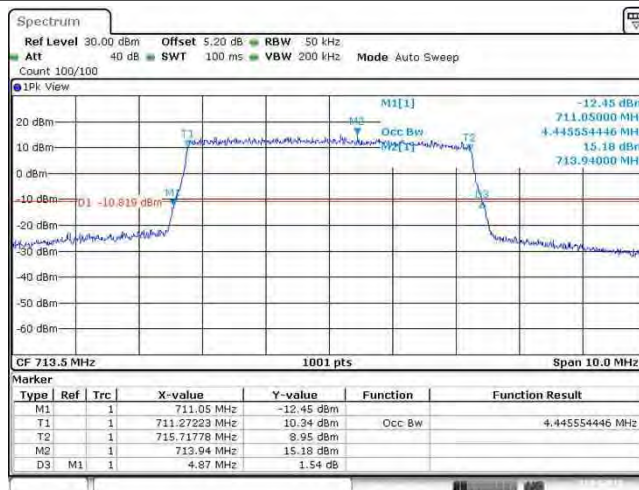
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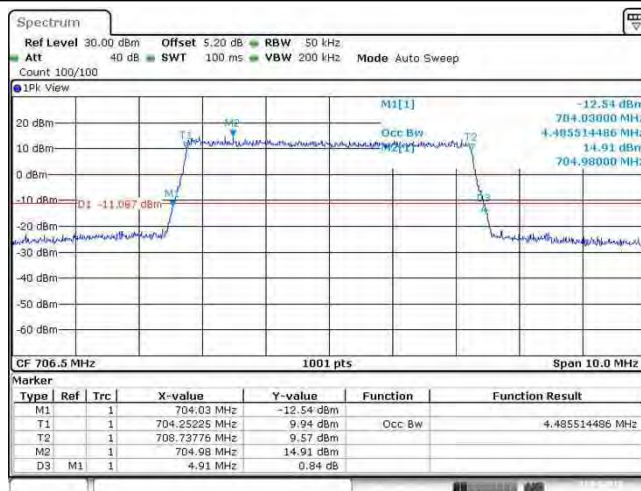
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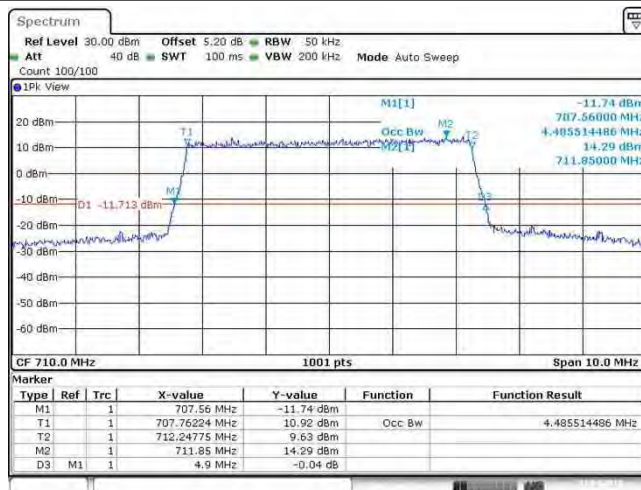
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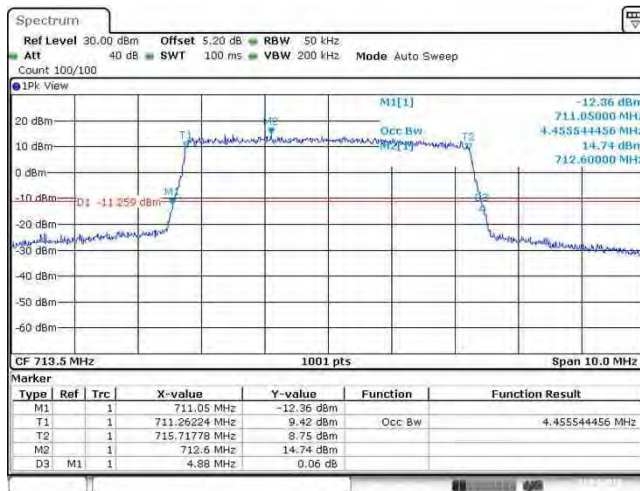
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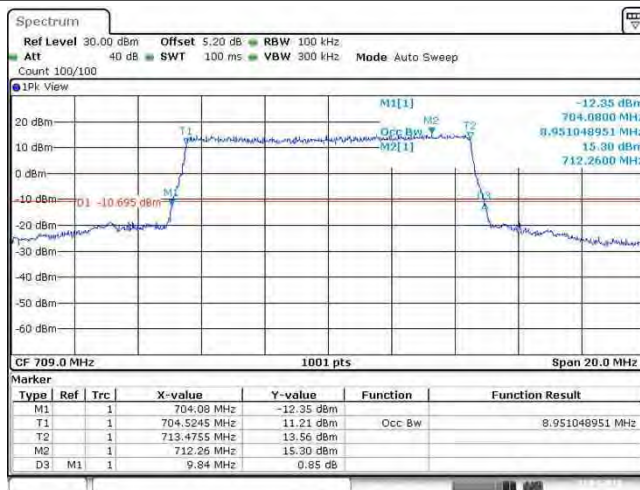
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Band17_10MHz_QPSK_23780_50RB#0



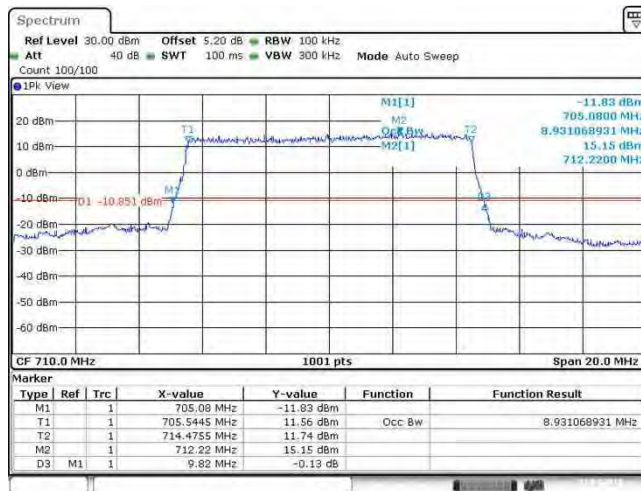
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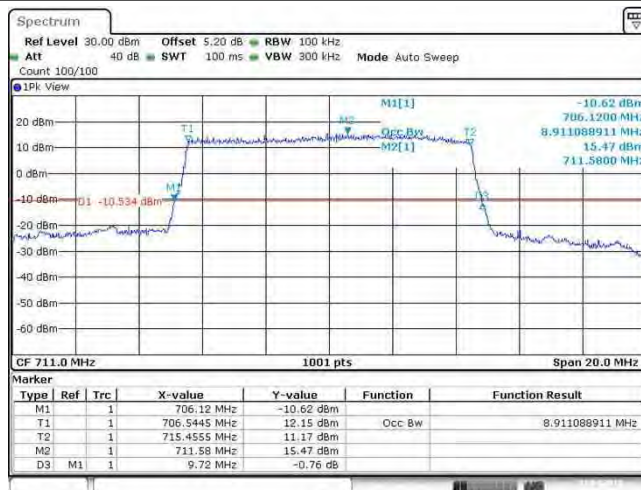
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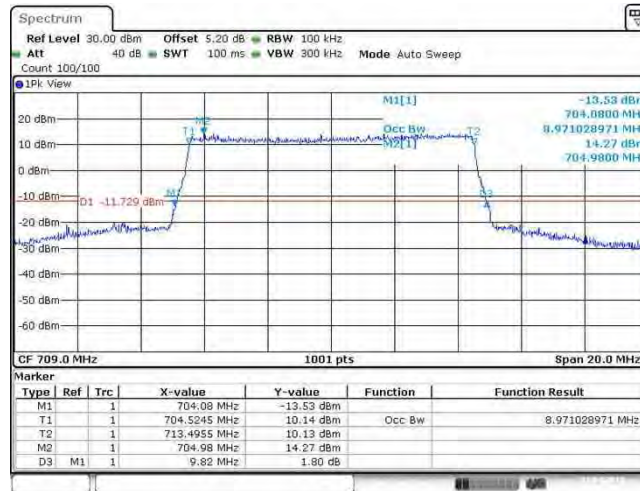
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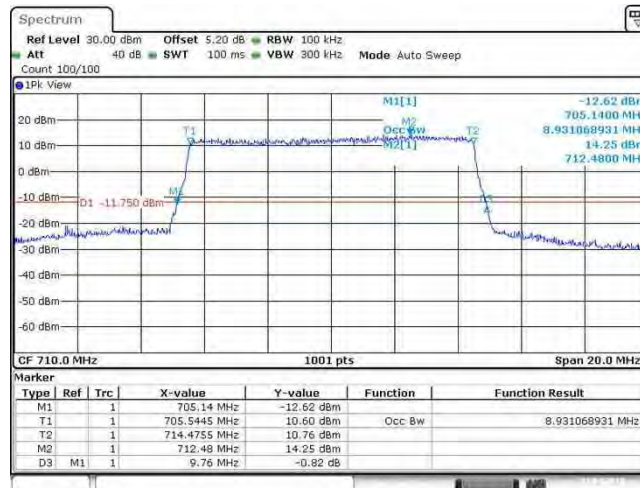
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Band17_10MHz_64QAM_23790_50RB#0



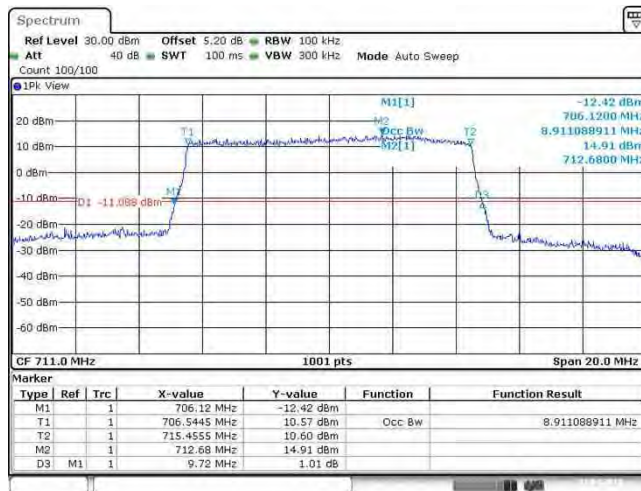
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Band17_10MHz_64QAM_23800_50RB#0



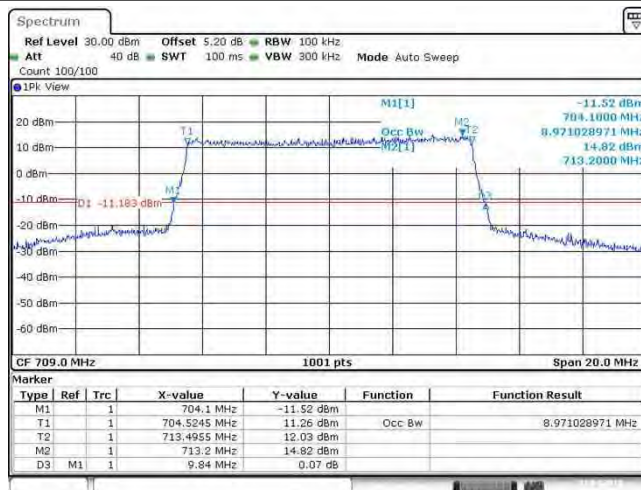
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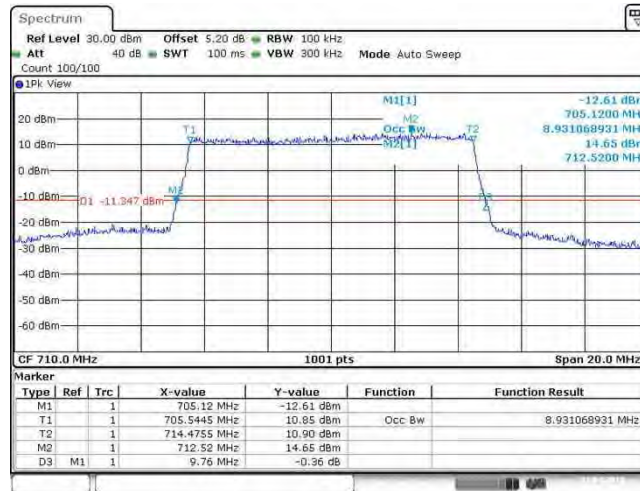
Band17_10MHz_16QAM_23780_50RB#0



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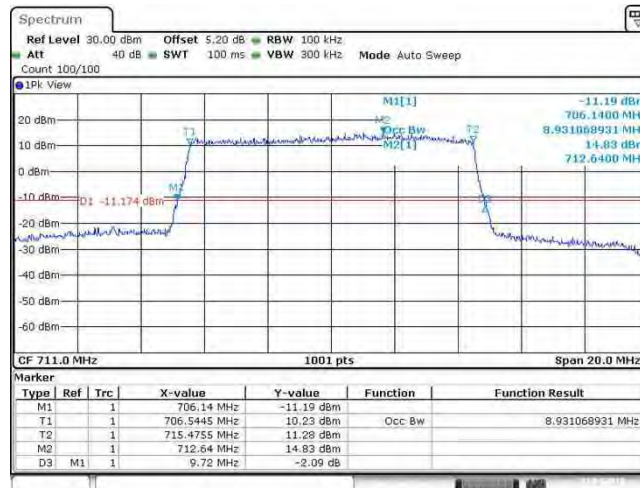
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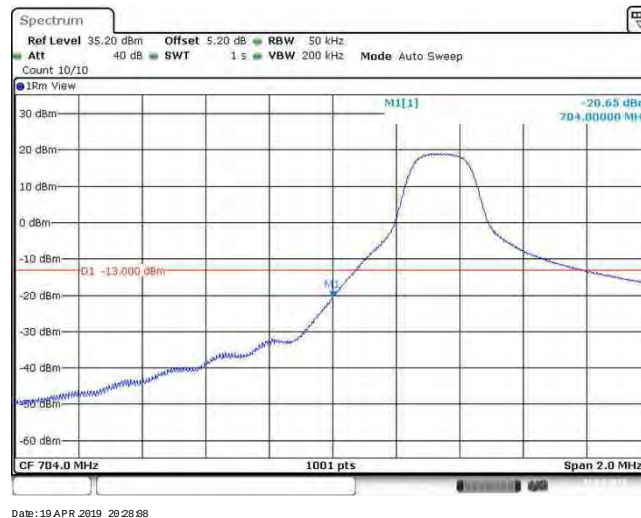
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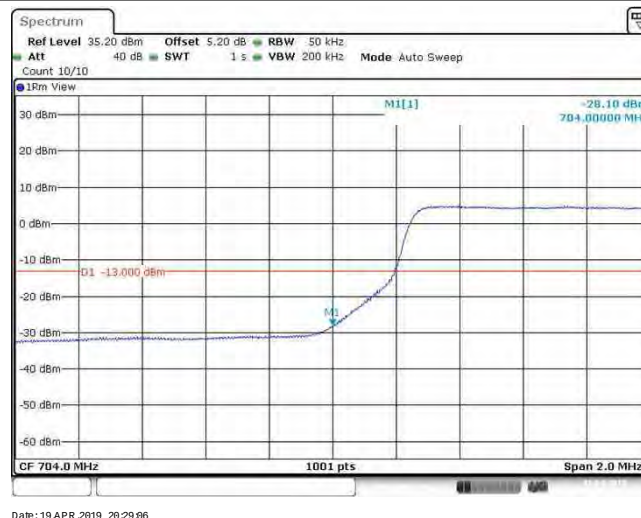
5. Band Edge Compliance

5.1. Test Plots

Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_25RB#0



Band17_5MHz_QPSK_23825_1RB#24





Band17_5MHz_QPSK_23825_25RB#0



Band17_5MHz_64QAM_23755_1RB#0



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Band17_5MHz_16QAM_23755_1RB#0





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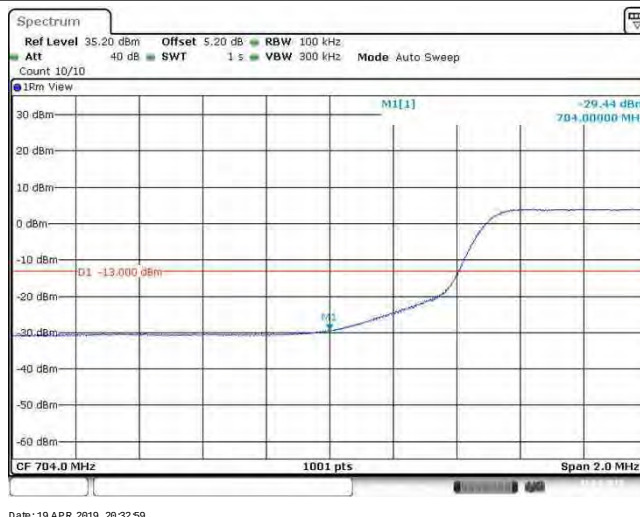


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Band17_10MHz_QPSK_23780_50RB#0



Band17_10MHz_QPSK_23800_1RB#49



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Band17_10MHz_QPSK_23800_50RB#0



Band17_10MHz_64QAM_23780_1RB#0



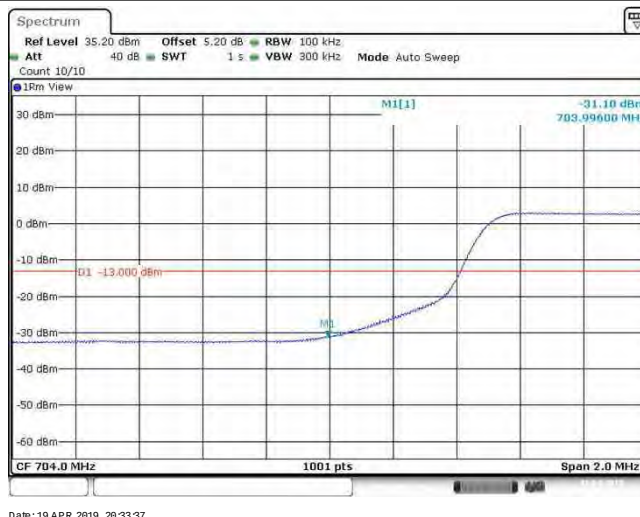
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Band17_10MHz_64QAM_23780_50RB#0



Band17_10MHz_64QAM_23800_1RB#49



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Band17_10MHz_64QAM_23800_50RB#0



Band17_10MHz_16QAM_23780_1RB#0



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Date: 19 APR 2019 20:32:21

Band17_10MHz_16QAM_23780_50RB#0



Date: 19 APR 2019 20:33:18

Band17_10MHz_16QAM_23800_1RB#49





Band17_10MHz_16QAM_23800_50RB#0



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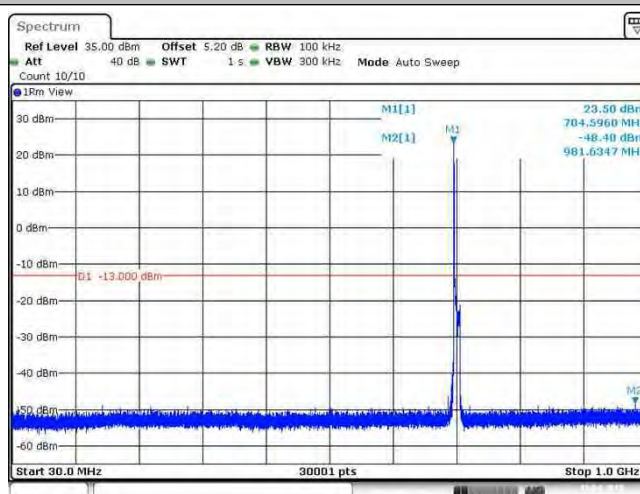
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

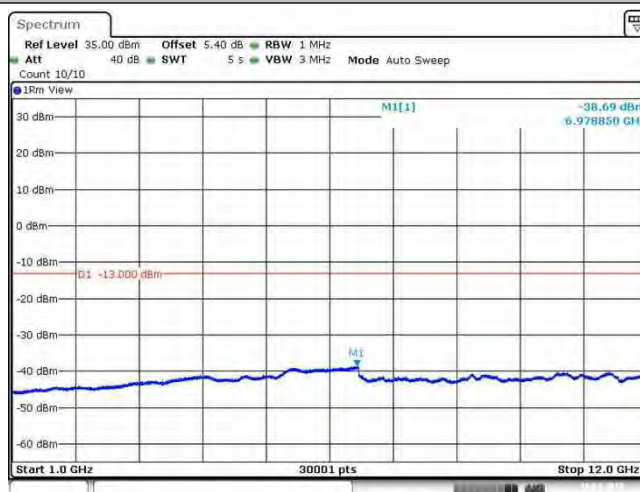
6.1. Test Plots

Band17_10MHz_QPSK_23780_1RB#0



Date: 19 APR 2019 20:35:56

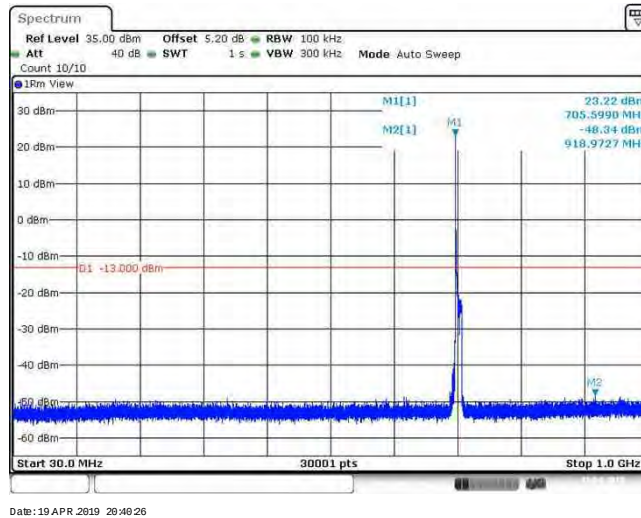
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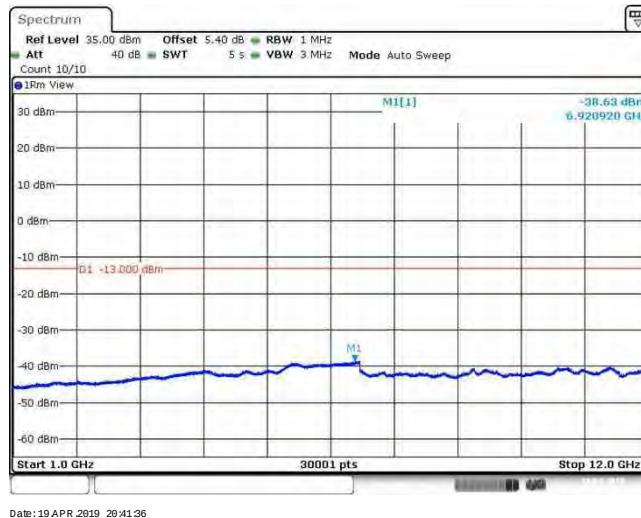
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Band17_10MHz_QPSK_23790_1RB#0





Band17_10MHz_QPSK_23790_1RB#0



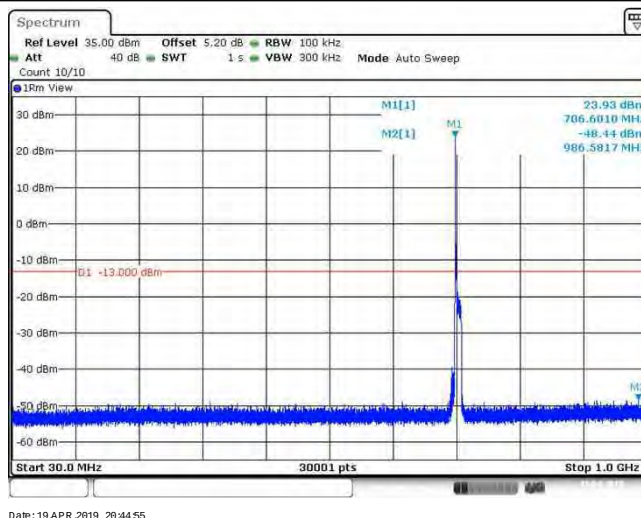
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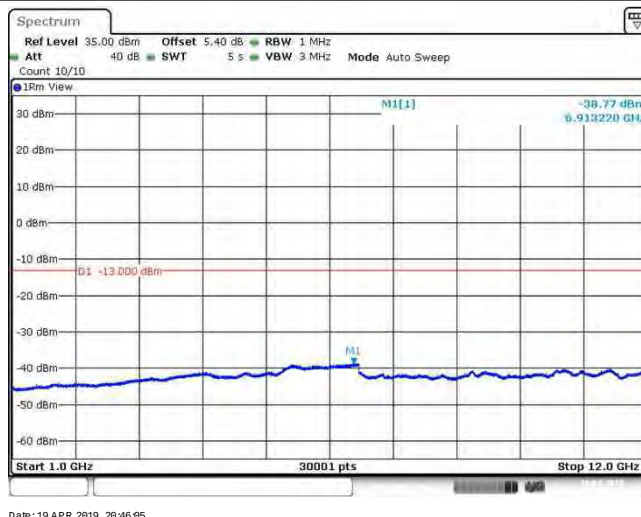
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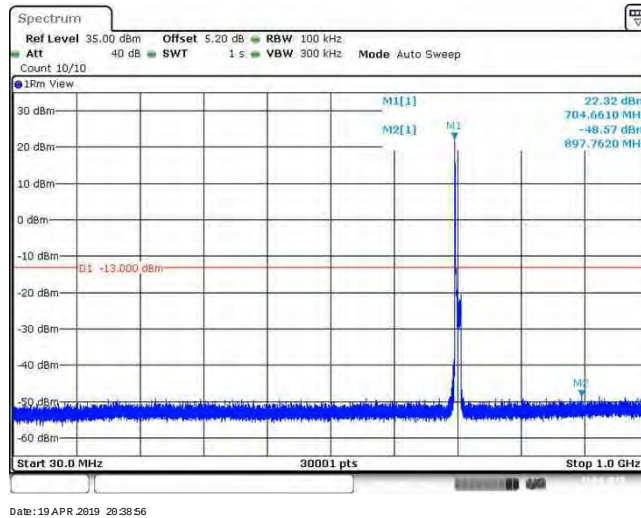


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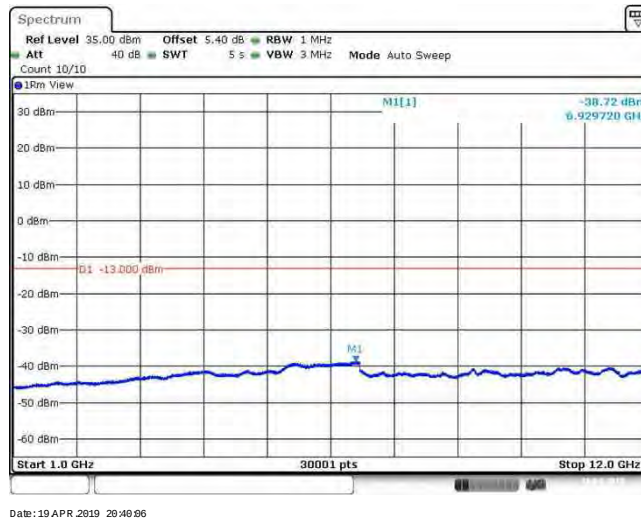


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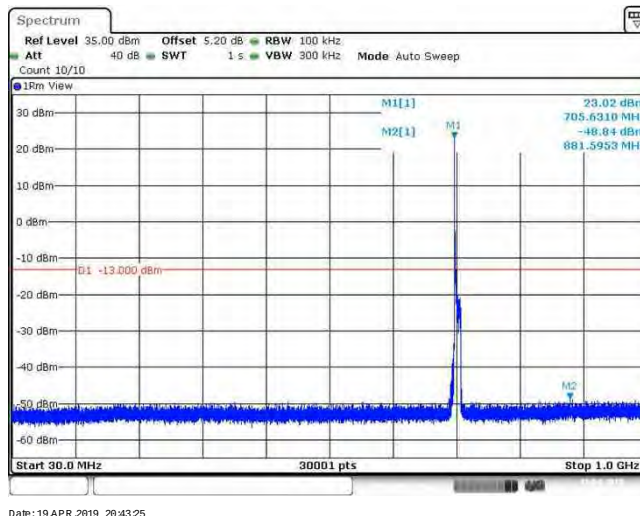


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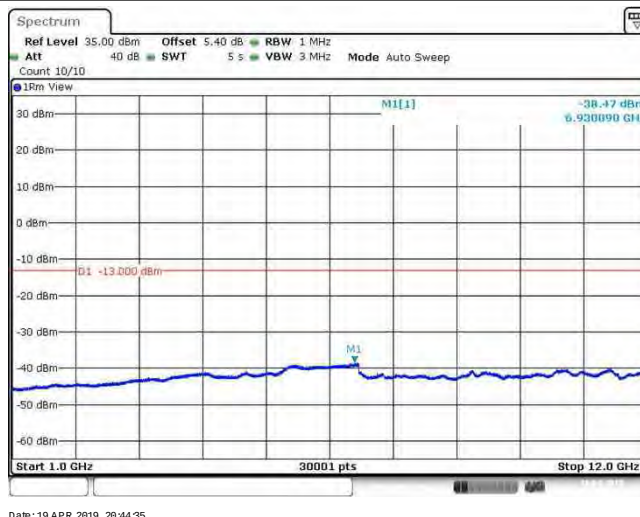


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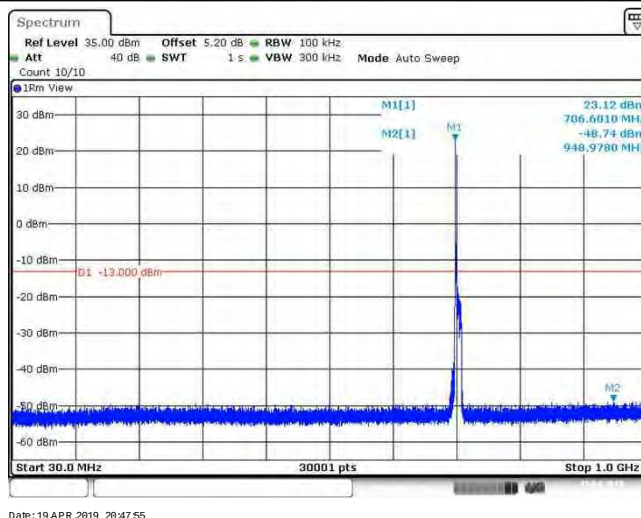


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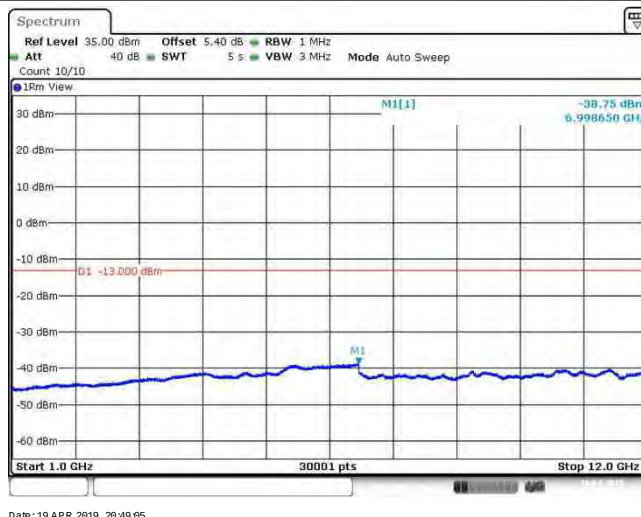


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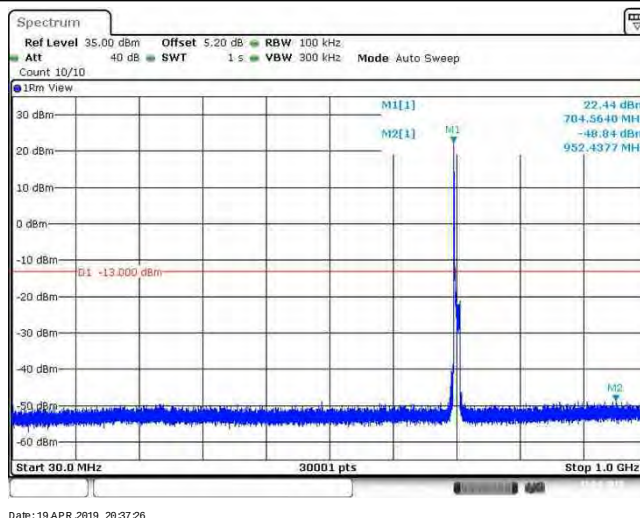


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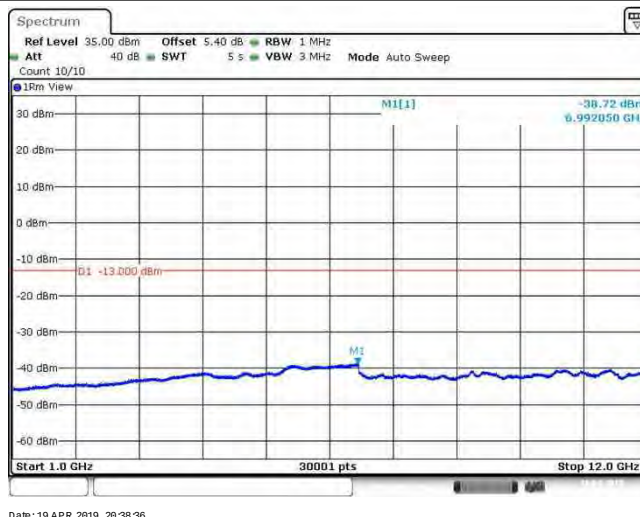


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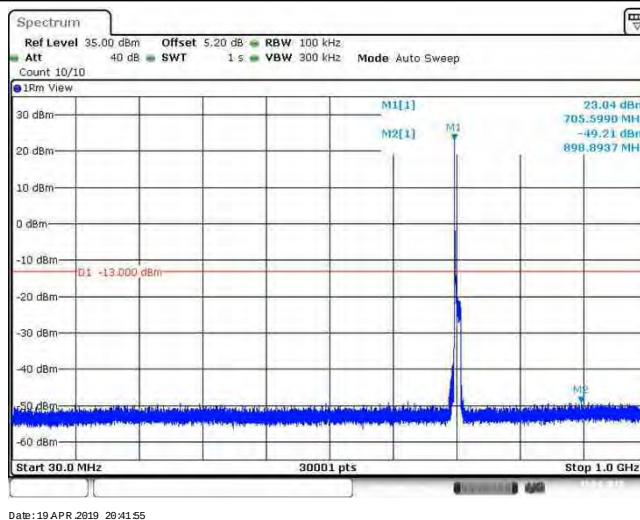


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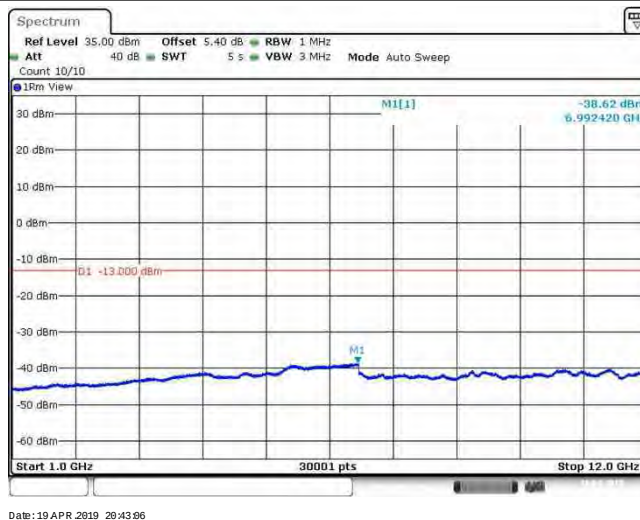


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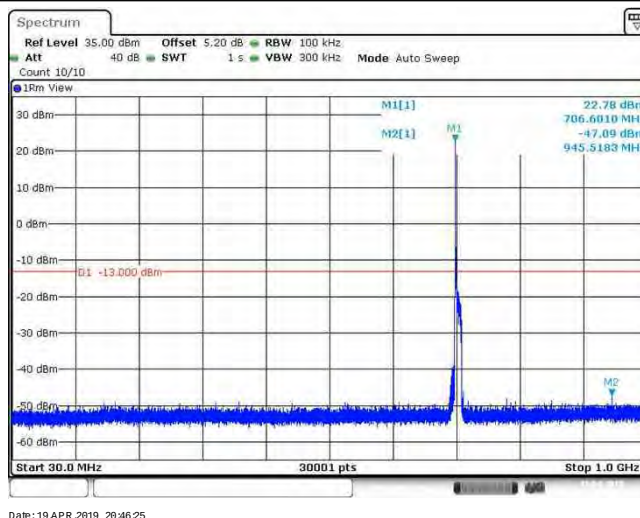


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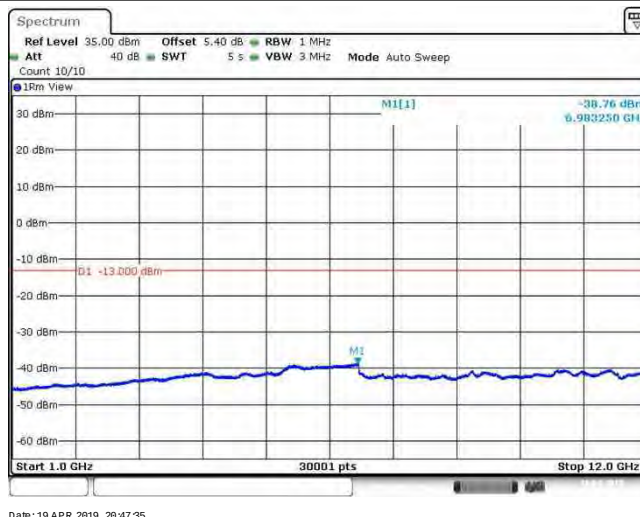


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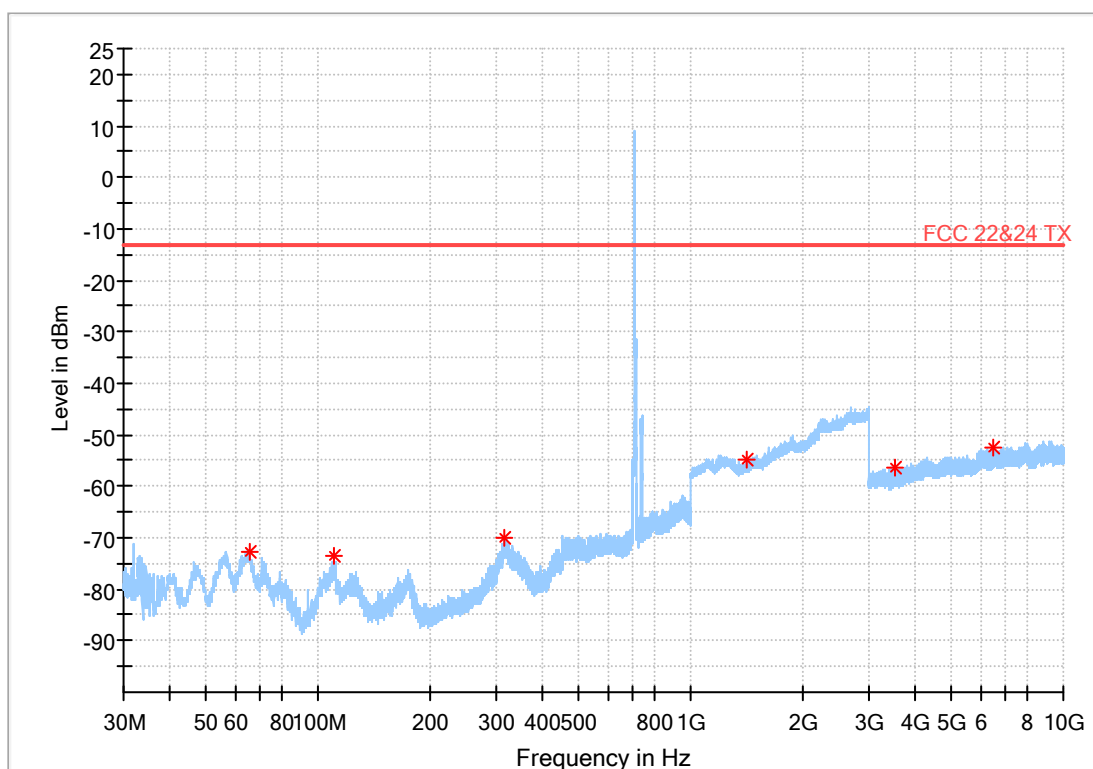
7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 17

7.1.1. Test Mode = LTE/TM1(Down Ant)

7.1.1.1. Test Channel = LCH_Vertical

Full Spectrum



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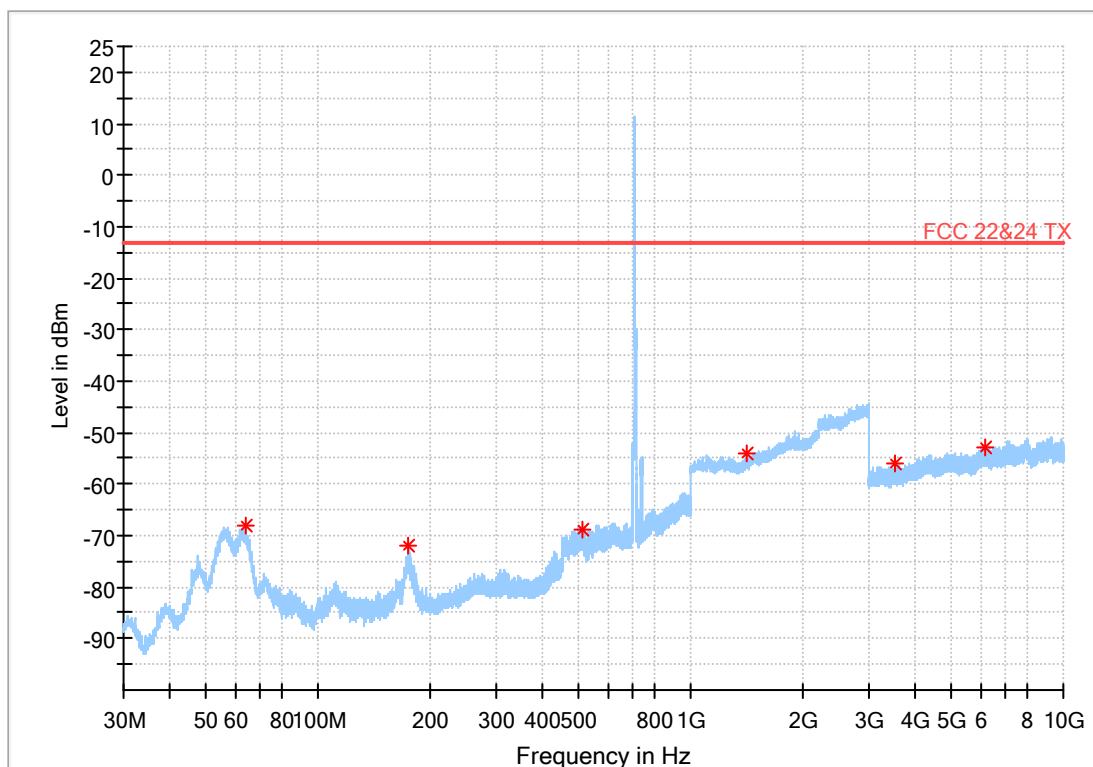
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7.1.1.2. Test Channel = LCH_Horizontal

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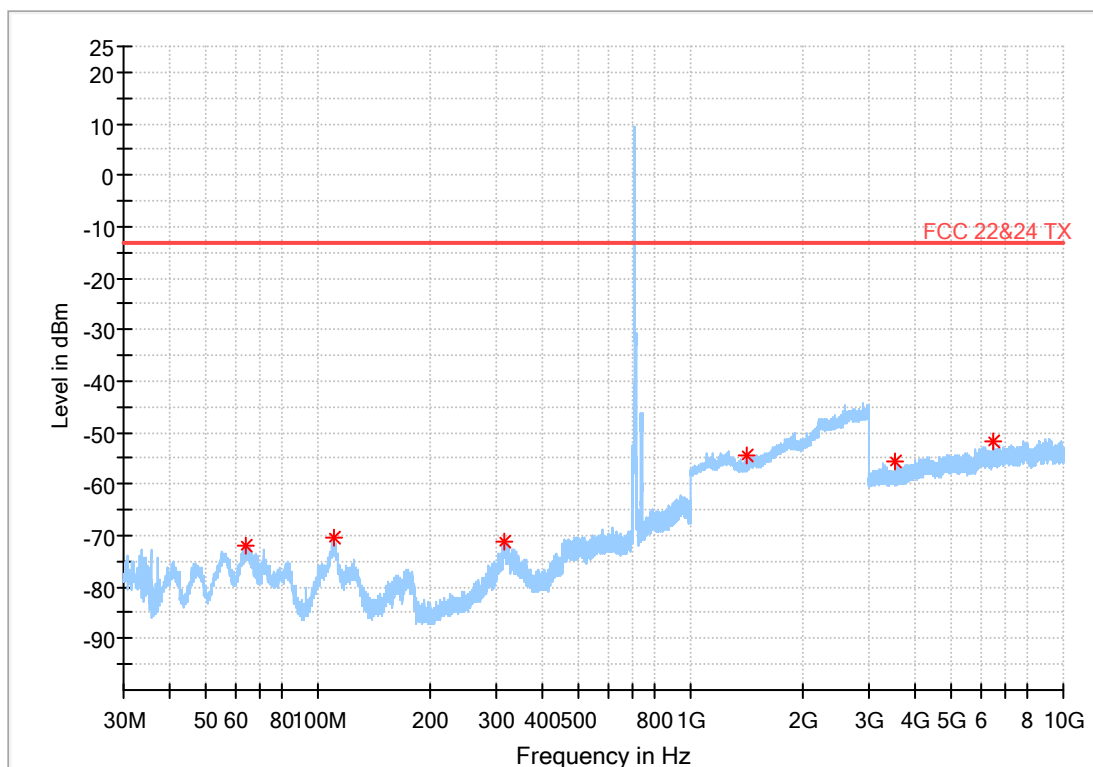
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7.1.1.3. Test Channel = MCH_Vertical

Full Spectrum

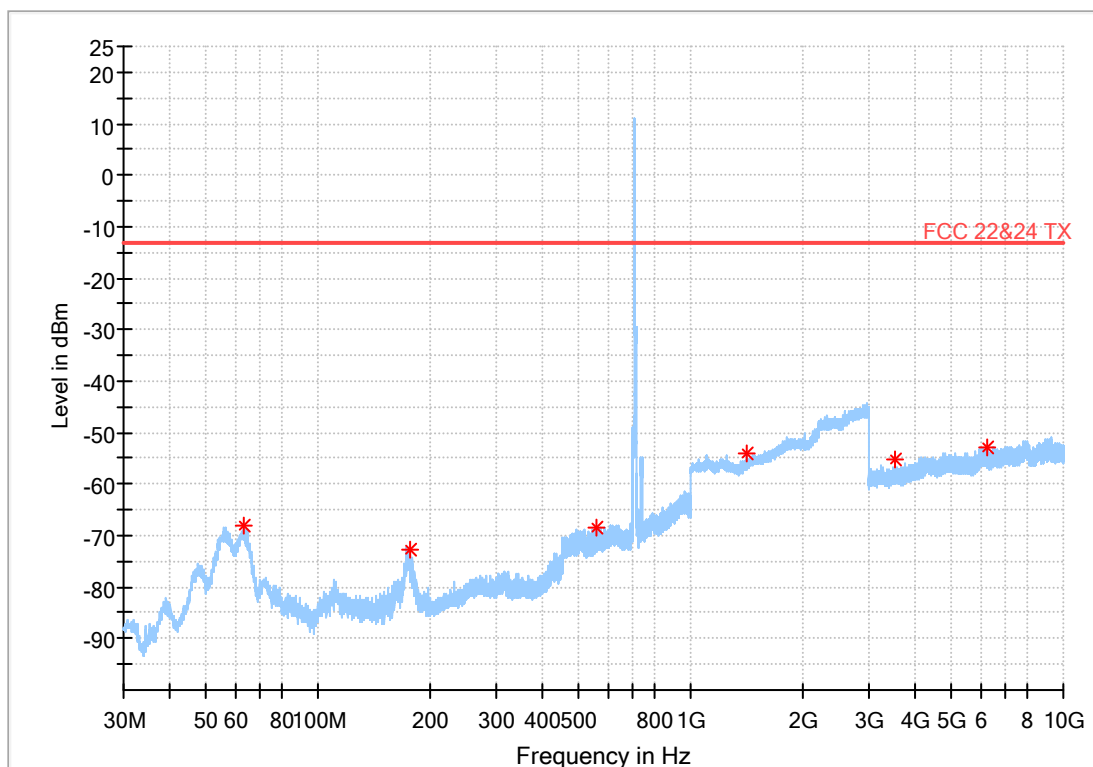


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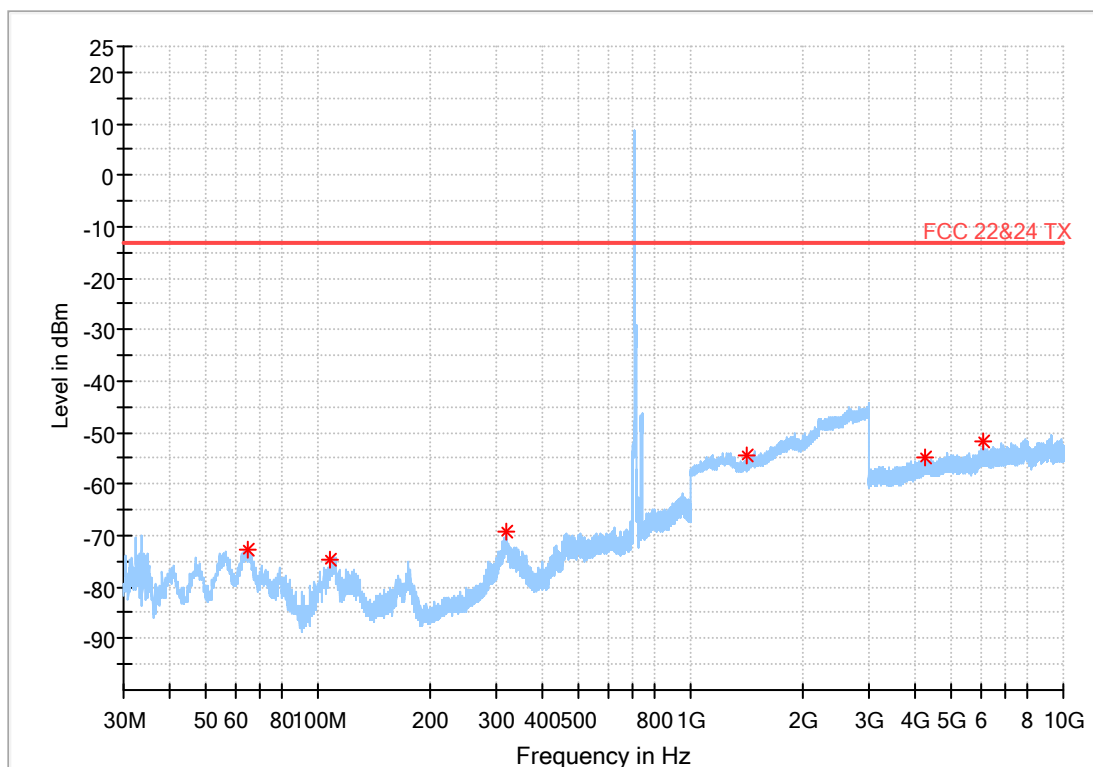
7.1.1.4. Test Channel = MCH_ Horizontal

Full Spectrum



7.1.1.5. Test Channel = HCH_Vertical

Full Spectrum



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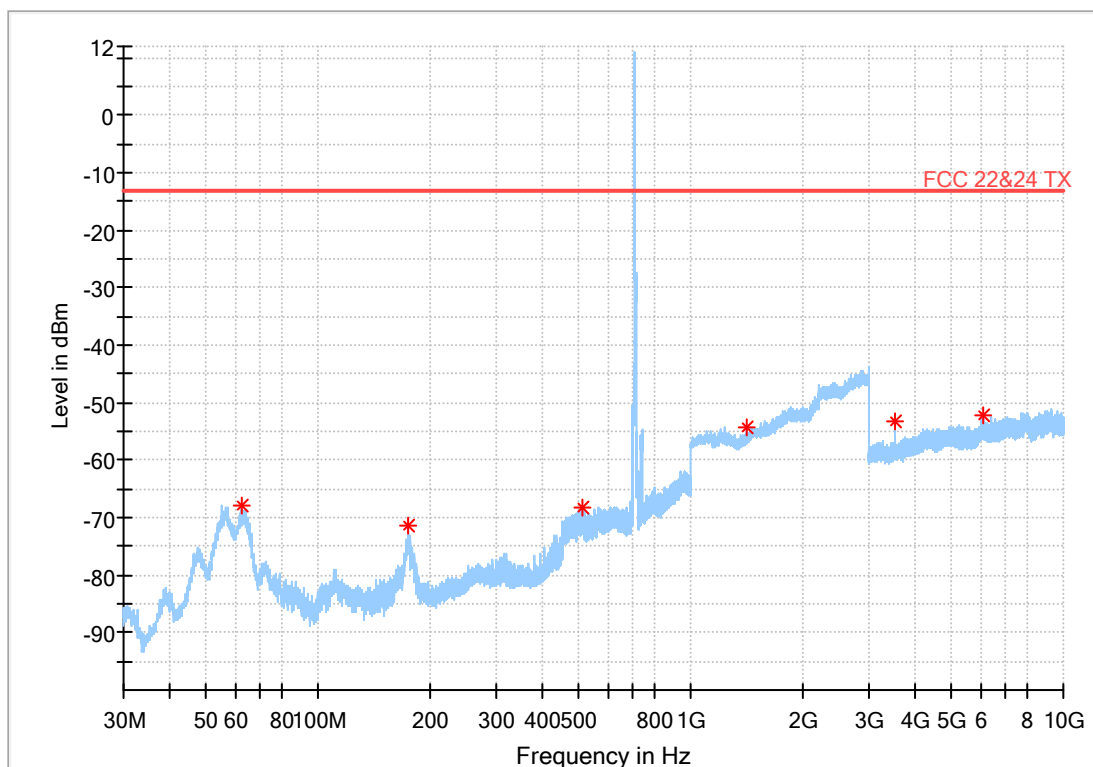
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7.1.1.6. Test Channel = HCH_Horizontal

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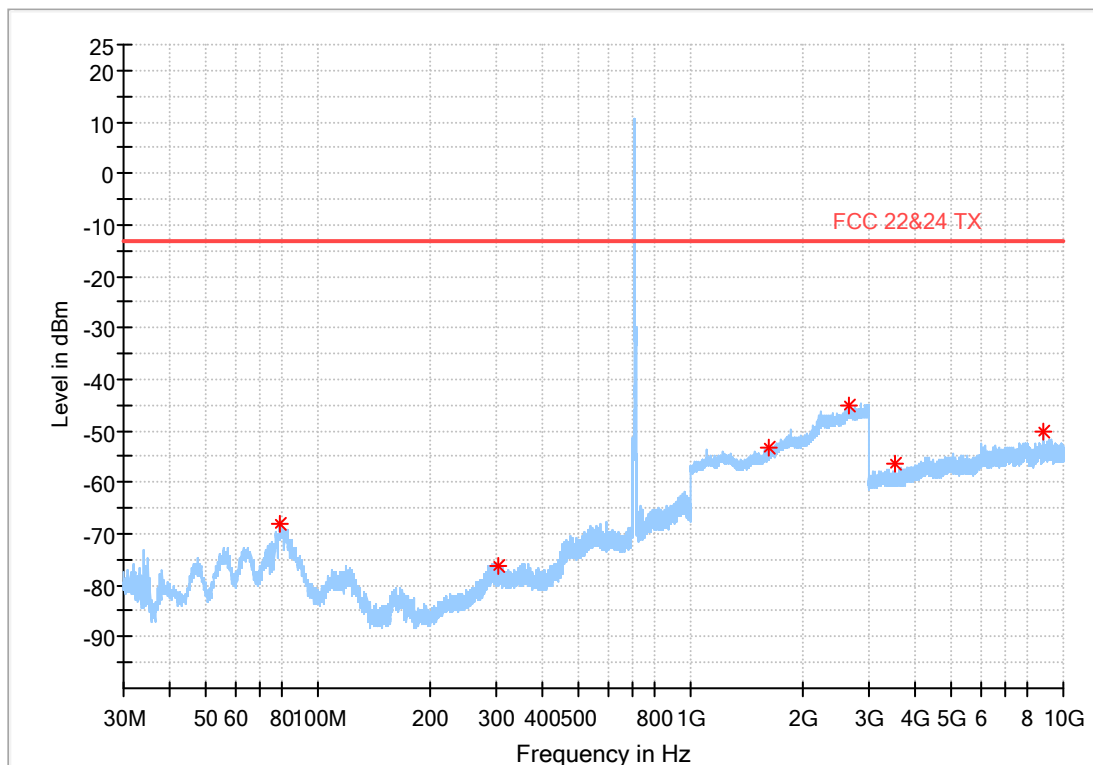
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7.1.2. Test Mode = LTE/TM1 (Up Ant)

7.1.2.1. Test Channel = LCH_Vertical

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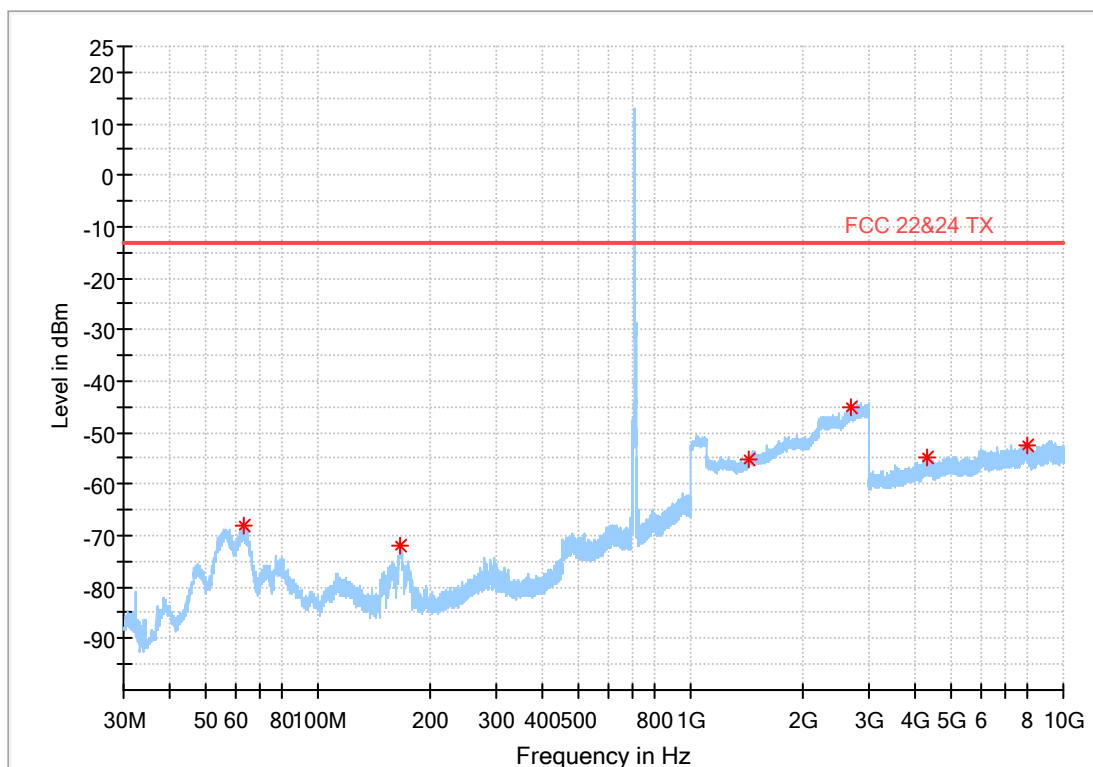
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7.1.2.2. Test Channel = LCH_Horizontal

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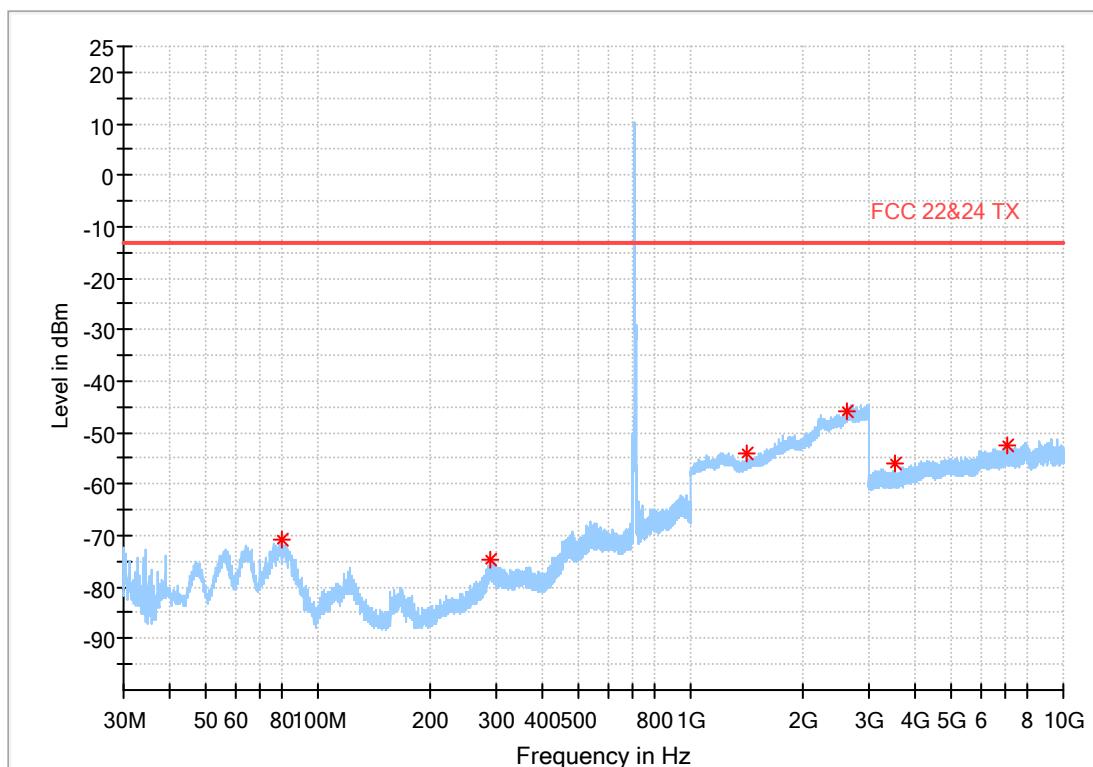
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7.1.2.3. Test Channel = MCH_ Vertical

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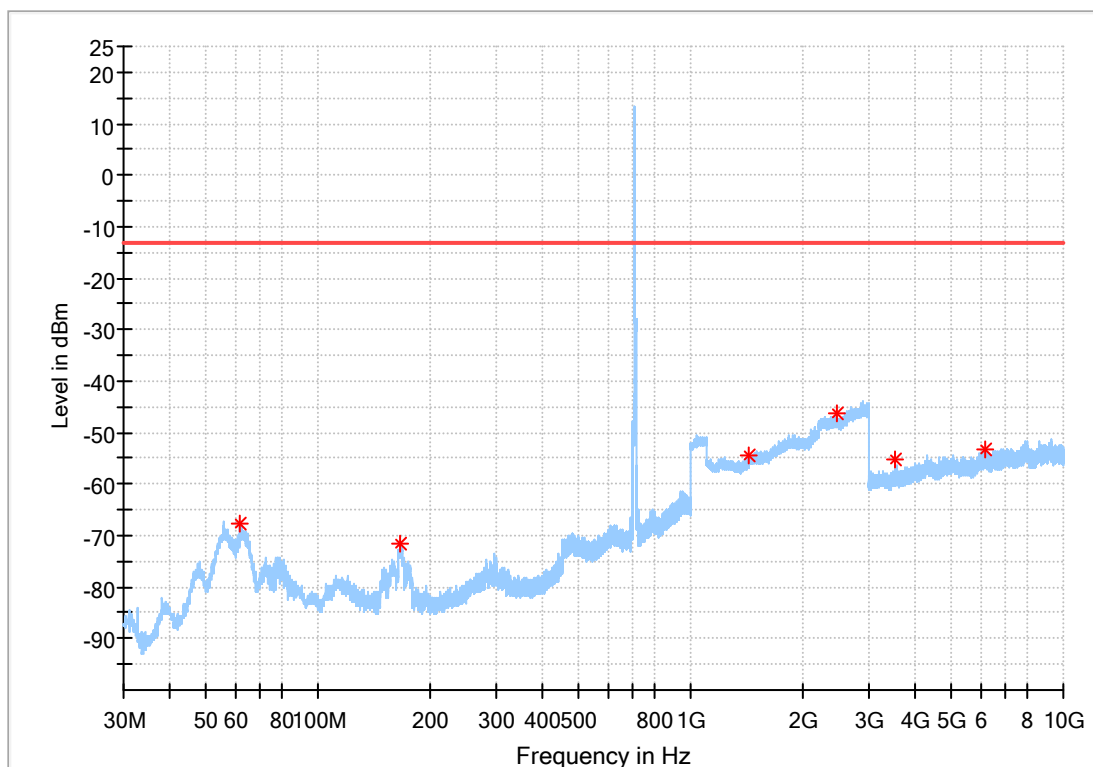
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7.1.2.4. Test Channel = MCH_ Horizontal

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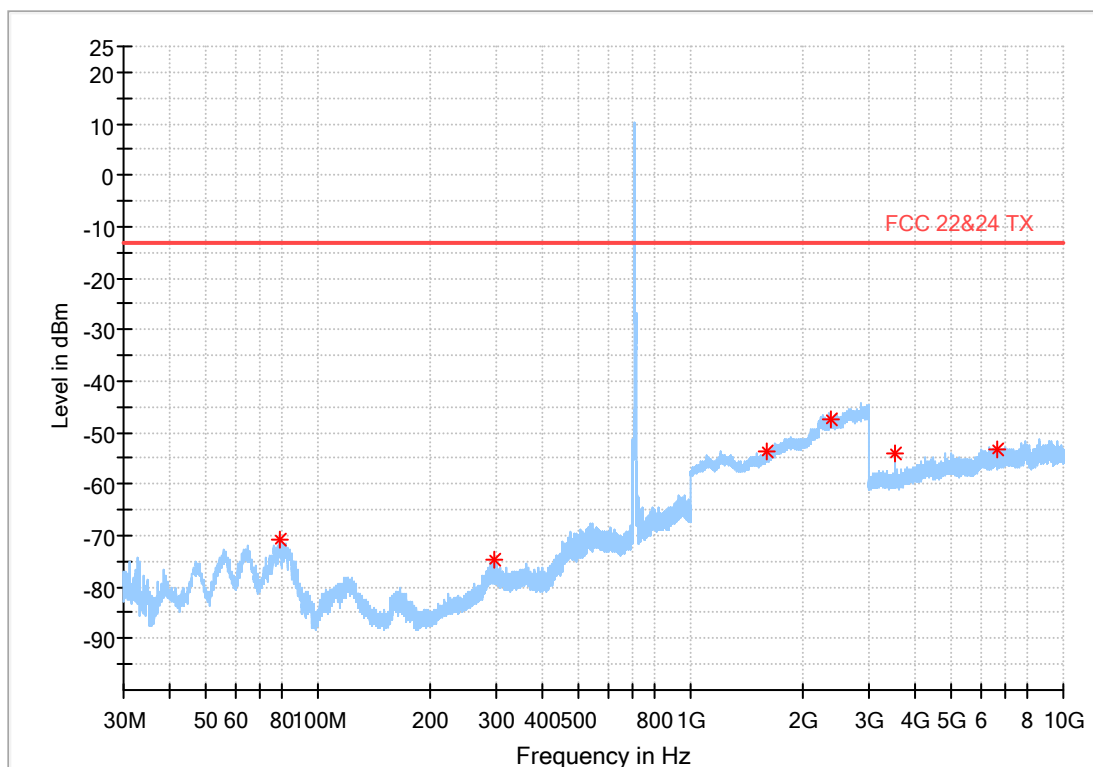
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7.1.2.5. Test Channel = HCH_Vertical

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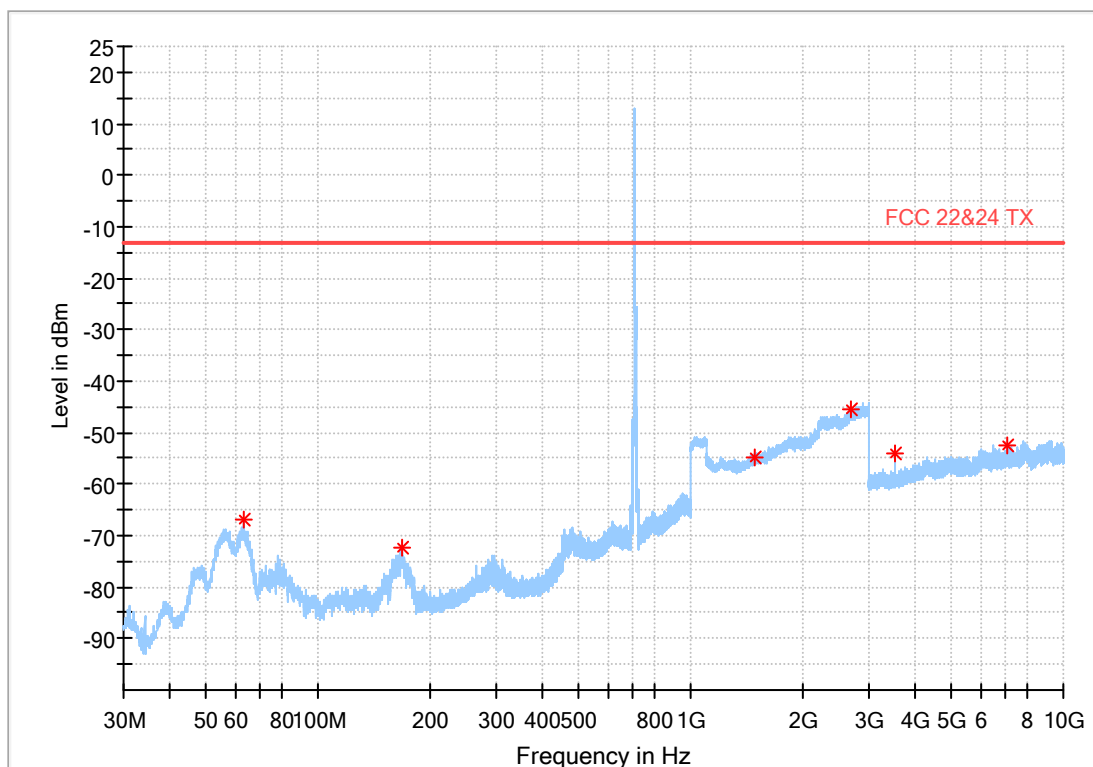
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7.1.2.6. Test Channel = HCH_Horizontal

Full Spectrum



Remark:

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.

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
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	0.30	0.000423	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	1.40	0.001975	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.00	-0.001408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	1.00	0.001406	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	1.00	0.001410	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	0.60	0.000845	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.60	0.000846	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	1.20	0.001690	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-0.70	-0.000985	±2.5	PASS



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8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	1.00	0.001410	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	1.40	0.001975	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	1.70	0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	0.80	0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.60	0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.40	0.000563	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	0.20	0.000281	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	0.30	0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	0.50	0.000703	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	0.80	0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	0.70	0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	0.40	0.000564	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	0.60	0.000846	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	0.80	0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	0.10	0.000141	±2.5	PASS



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Band17	10MHz	64QAM	23780	50RB#0	NV	50	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-1.00	-0.001408	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	0.20	0.000281	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	0.60	0.000844	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	0.20	0.000281	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	0.30	0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	0.80	0.001128	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	0.70	0.000986	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	0.70	0.000986	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	0.20	0.000281	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	0.40	0.000563	±2.5	PASS



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Band17	10MHz	16QAM	23800	50RB#0	NV	30	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	0.60	0.000844	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-0.50	-0.000703	±2.5	PASS

The End



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