



Appendix B

E-UTRA Band 17



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CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1. TEST RESULT FOR DOWN ANTENNA	4
1.2. TEST RESULT FOR UP ANTENNA	7
2. PEAK-TO-AVERAGE RATIO(CCDF)	11
2.1. TEST RESULT	11
2.2. TEST PLOTS	11
3. MODULATION CHARACTERISTICS.....	16
3.1. TEST BAND = LTE BAND 17.....	16
3.2. TEST MODE = LTE /TM1 10MHZ.....	16
3.2.1. TEST CHANNEL = MCH	16
3.3. TEST MODE = LTE /TM2 10MHZ.....	17
3.3.1. TEST CHANNEL = MCH	17
3.4. TEST MODE = LTE /TM3 10MHZ.....	18
3.4.1. TEST CHANNEL = MCH	18
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	19
4.1. TEST RESULT	19
4.2. TEST PLOTS	20
5. BAND EDGE COMPLIANCE.....	29
5.1. TEST PLOTS	29
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	41
6.1. TEST PLOTS	41
7. FIELD STRENGTH OF SPURIOUS RADIATION	50
7.1. TEST BAND = LTE BAND 17.....	50
7.1.1. TEST MODE =LTE/TM1(DOWN ANT).....	50
7.1.1.1. TEST CHANNEL = LCH_ VERTICAL	50
7.1.1.2. TEST CHANNEL = LCH_ HORIZONTAL	51
7.1.1.3. TEST CHANNEL = MCH_ VERTICAL	52
7.1.1.4. TEST CHANNEL = MCH_ HORIZONTAL.....	53



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7.1.1.5.	TEST CHANNEL = HCH_ VERTICAL	54
7.1.1.6.	TEST CHANNEL = HCH_ HORIZONTAL.....	55
7.1.2.	TEST MODE =LTE/TM1 (UP ANT)	56
7.1.2.1.	TEST CHANNEL = LCH_ VERTICAL	56
7.1.2.2.	TEST CHANNEL = LCH_ HORIZONTAL	57
7.1.2.3.	TEST CHANNEL = MCH_ VERTICAL	58
7.1.2.4.	TEST CHANNEL = MCH_ HORIZONTAL.....	59
7.1.2.5.	TEST CHANNEL = HCH_ VERTICAL	60
7.1.2.6.	TEST CHANNEL = HCH_ HORIZONTAL.....	61

8. FREQUENCY STABILITY.....62

8.1.	FREQUENCY VS VOLTAGE.....	62
8.2.	FREQUENCY VS TEMPERATURE.....	63



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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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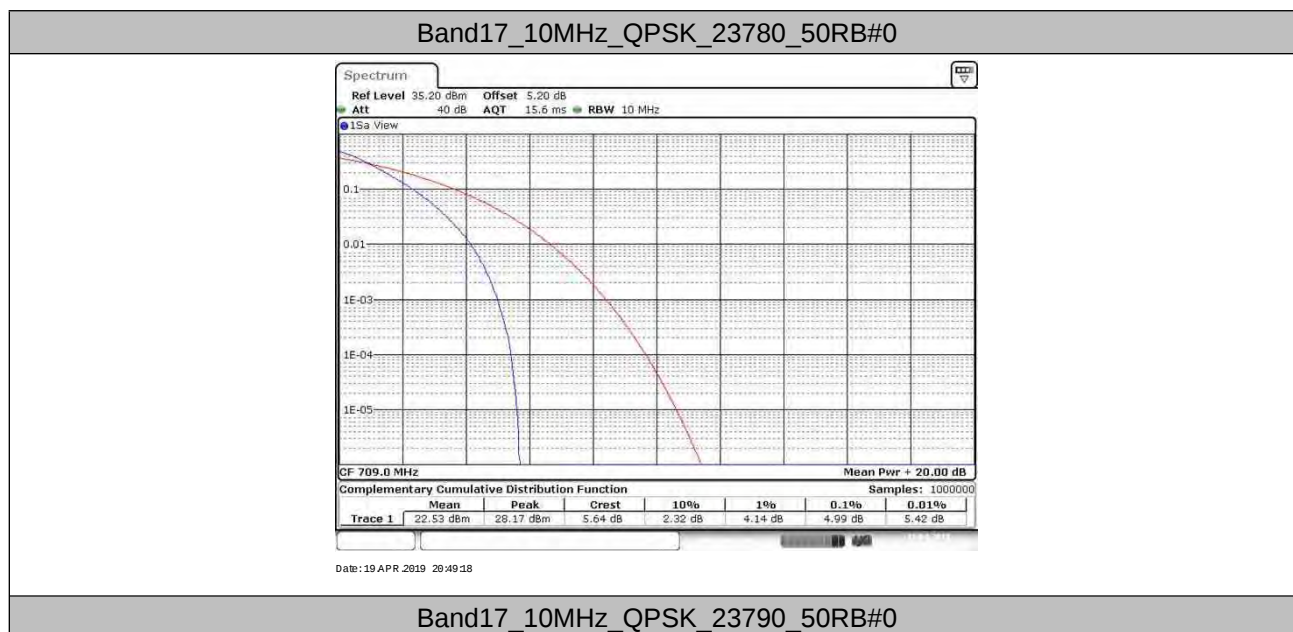
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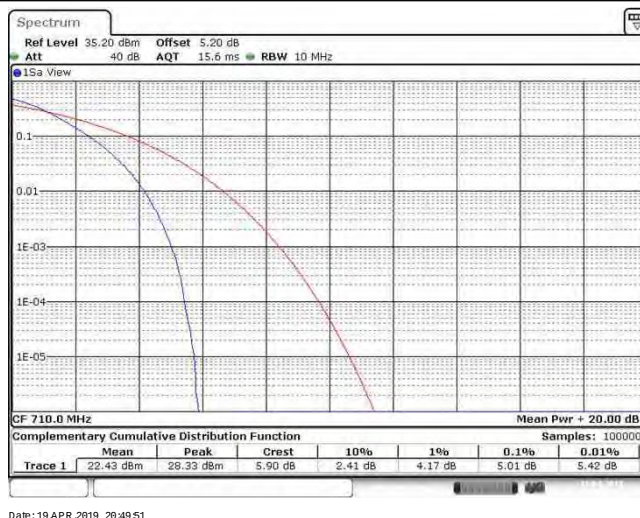
2. Peak-to-Average Ratio(CCDF)

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

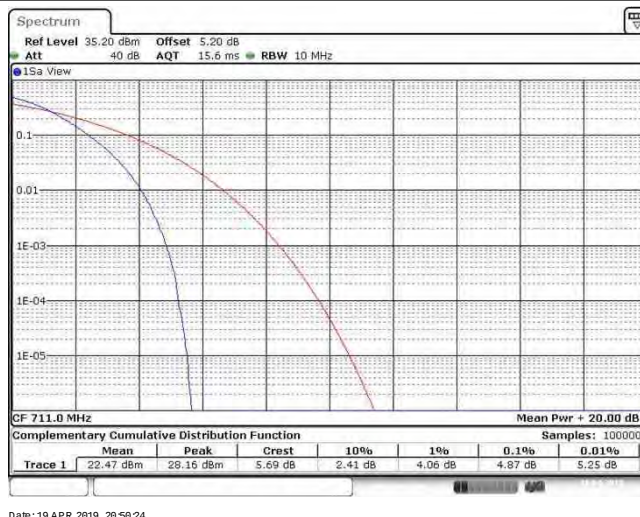
2.2. Test Plots





Date: 19 APR 2019 20:49:51

Band17_10MHz_QPSK_23800_50RB#0



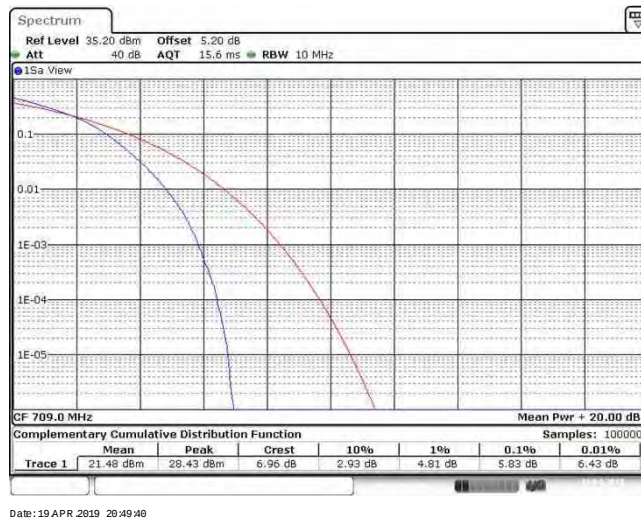
Date: 19 APR 2019 20:58:24

Band17_10MHz_64QAM_23780_50RB#0

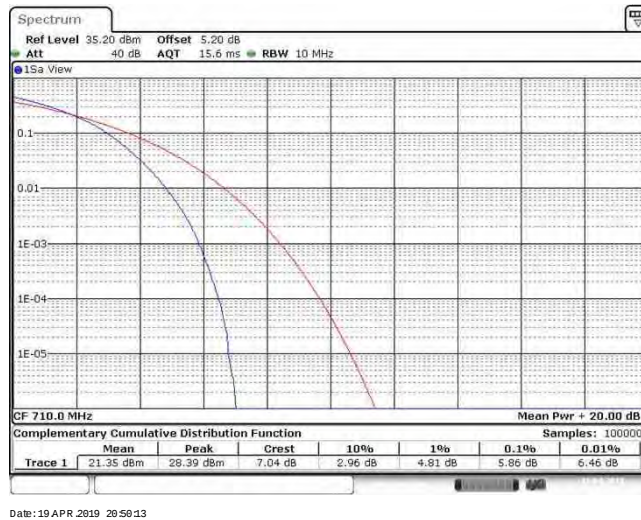


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Band17_10MHz_64QAM_23790_50RB#0

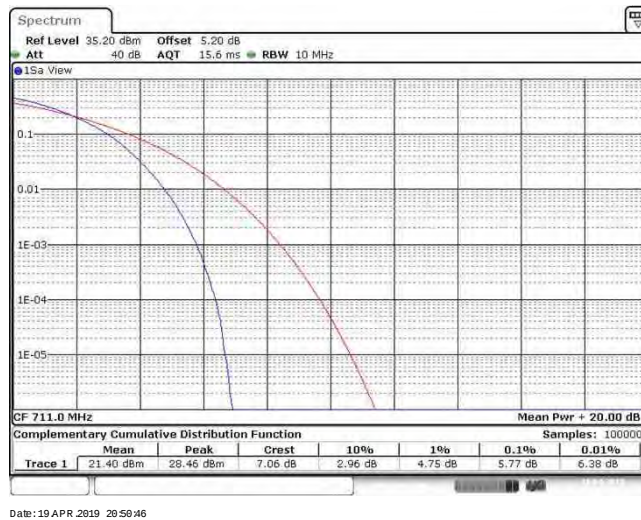


Band17_10MHz_64QAM_23800_50RB#0

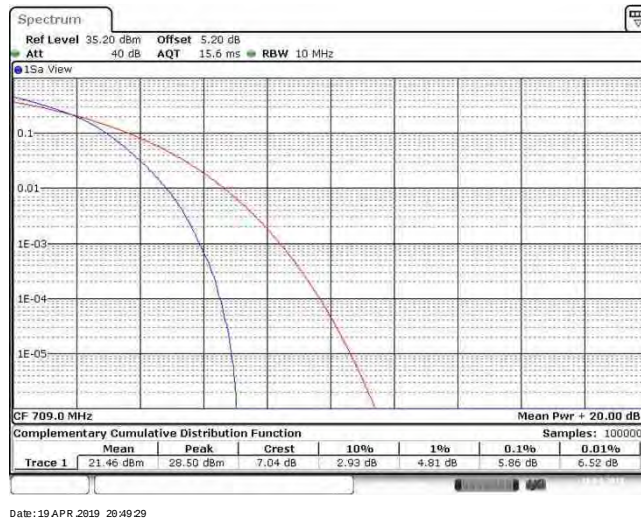


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Band17_10MHz_16QAM_23780_50RB#0

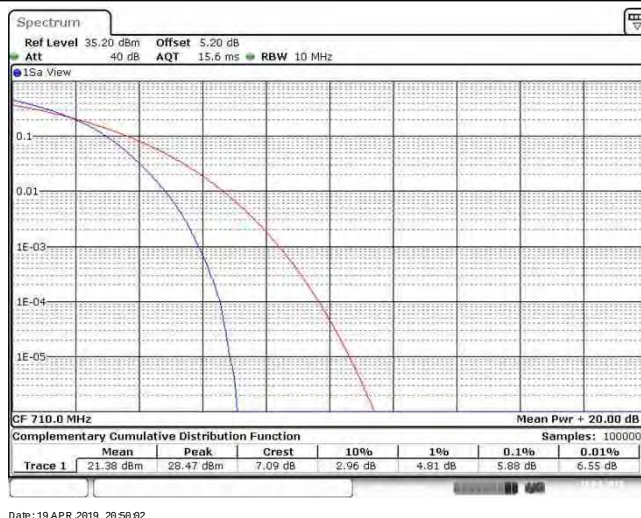


Band17_10MHz_16QAM_23790_50RB#0



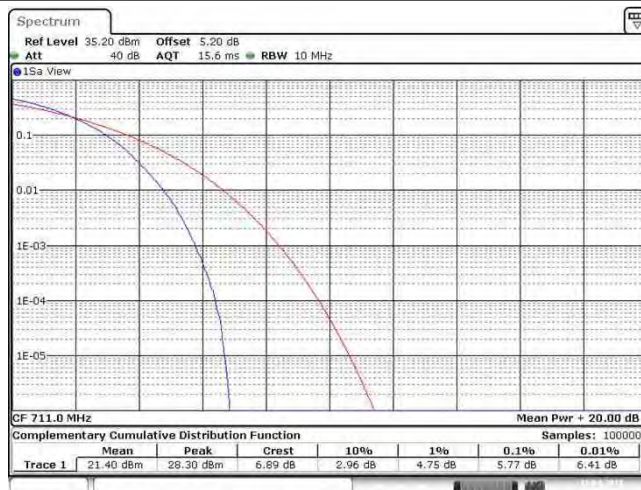
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Date: 19 APR 2019 20:58:02

Band17_10MHz_16QAM_23800_50RB#0



Date: 19 APR 2019 20:58:35

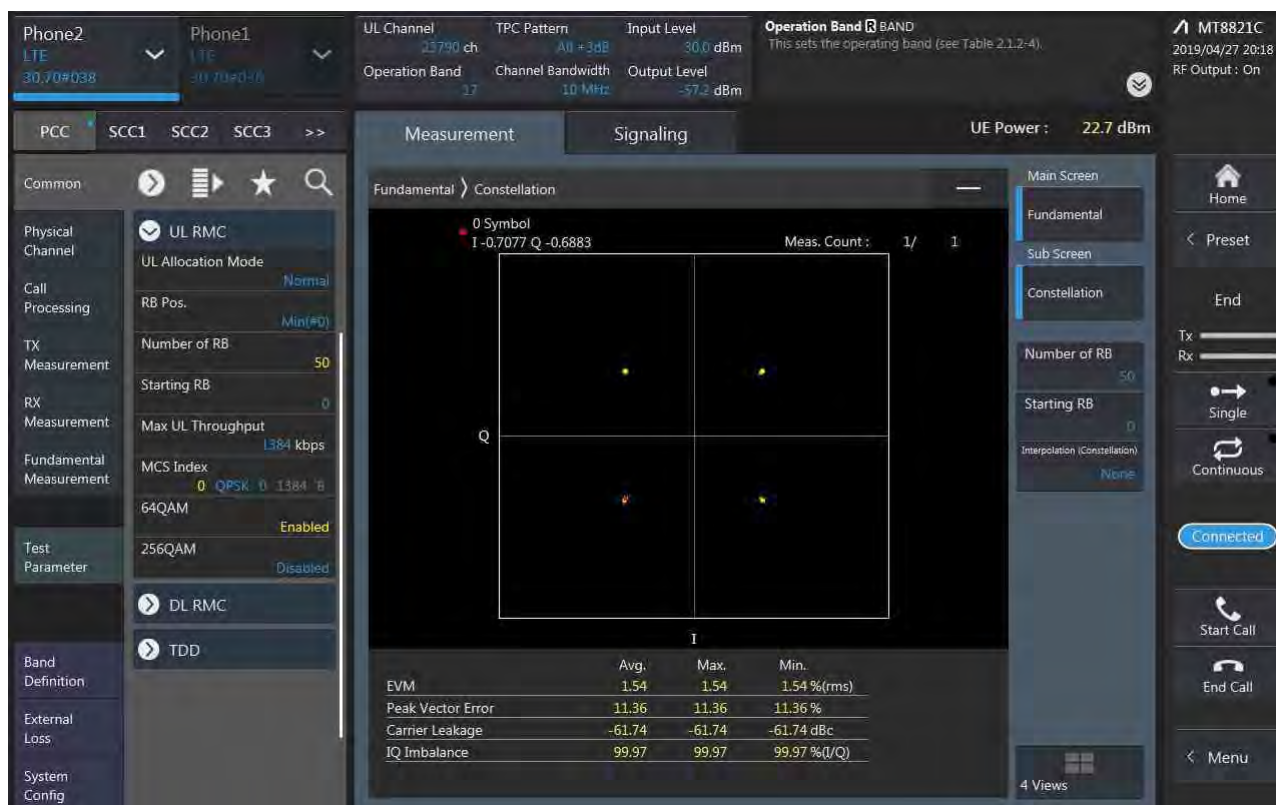


3. Modulation Characteristics

3.1. Test BAND = LTE Band 17

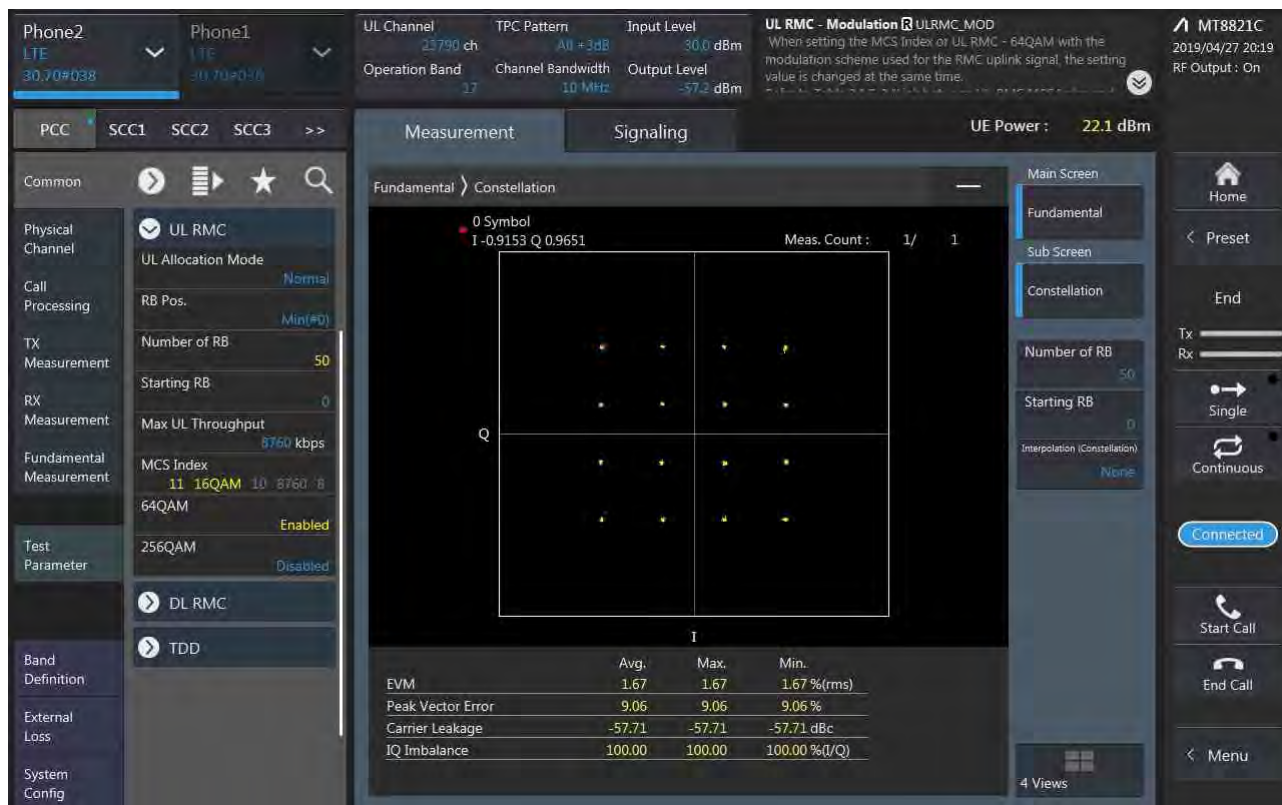
3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH

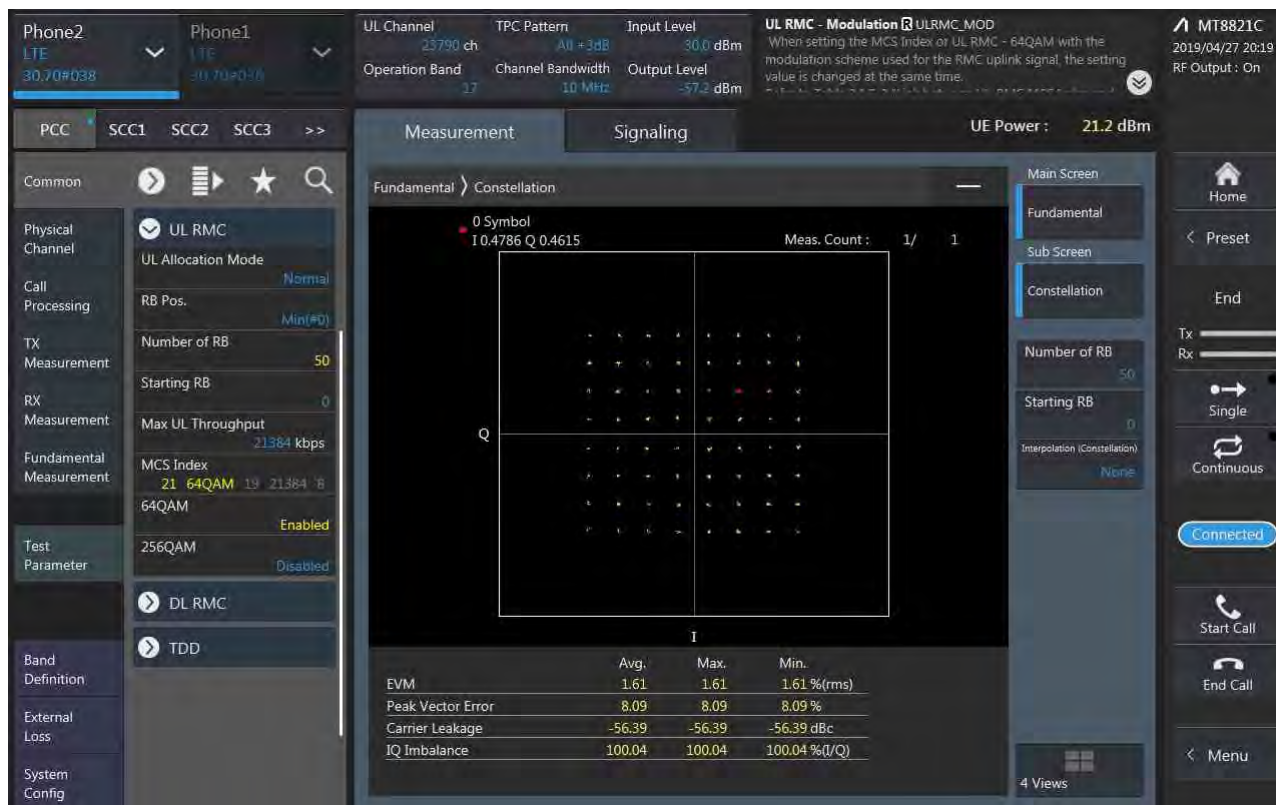


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3.4. Test Mode = LTE /TM3 10MHz

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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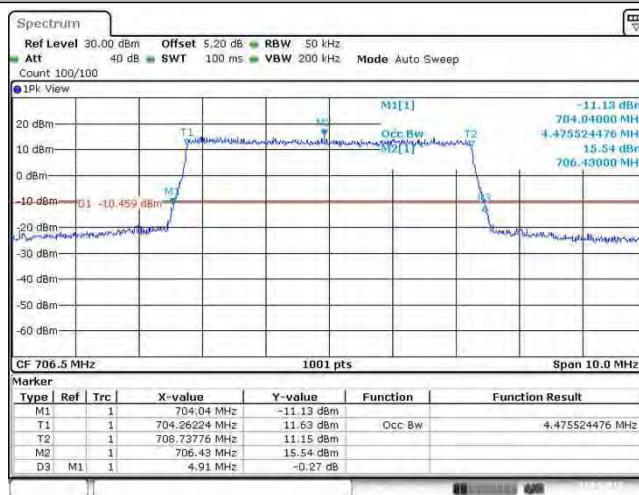
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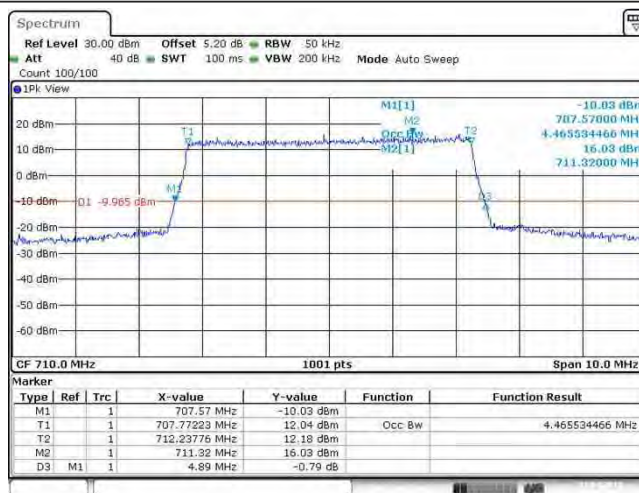
4.2. Test Plots

Band17_5MHz_QPSK_23755_25RB#0



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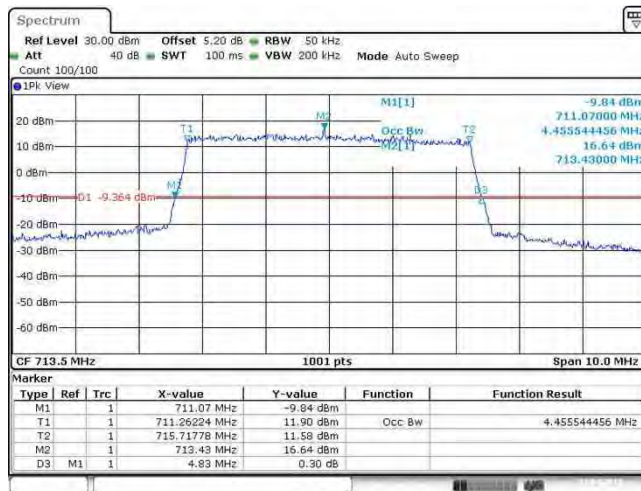
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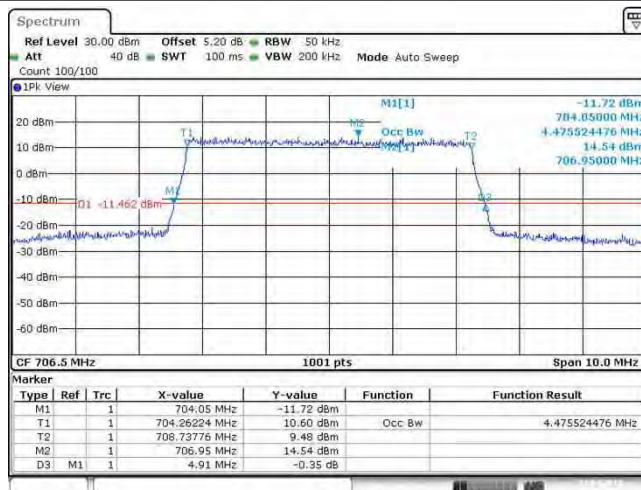
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Date: 19 APR 2019 20:24:10

Band17_5MHz_64QAM_23755_25RB#0



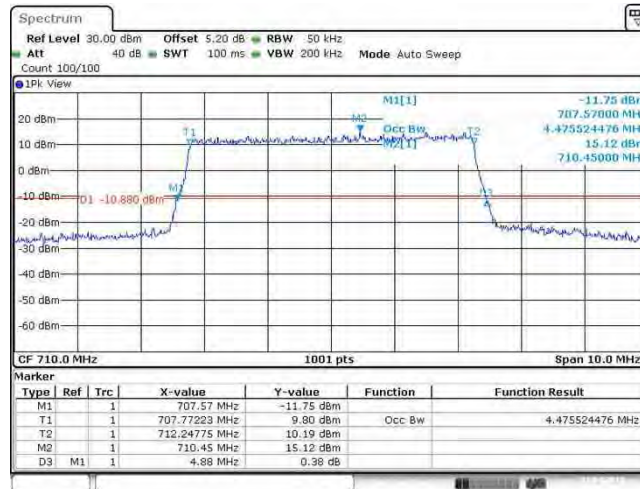
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Band17_5MHz_64QAM_23790_25RB#0



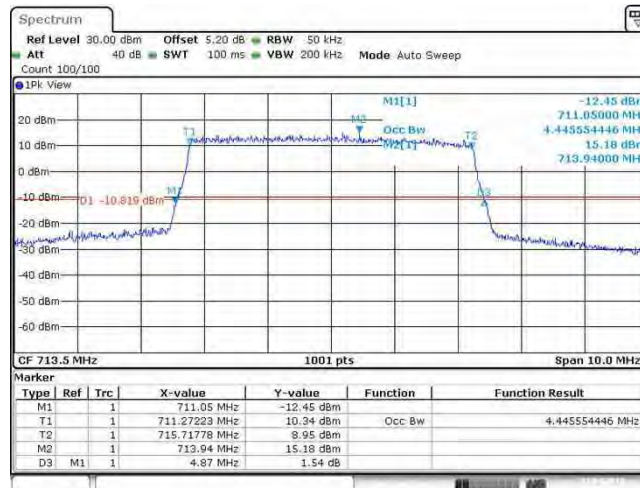
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Date: 19 APR 2019 20:23:50

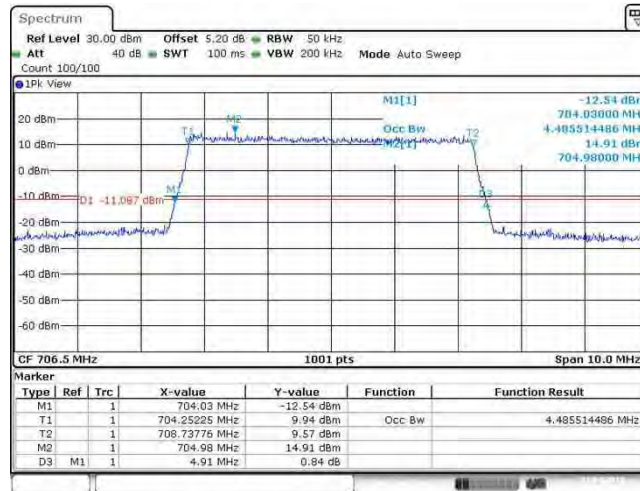
Band17_5MHz_64QAM_23825_25RB#0



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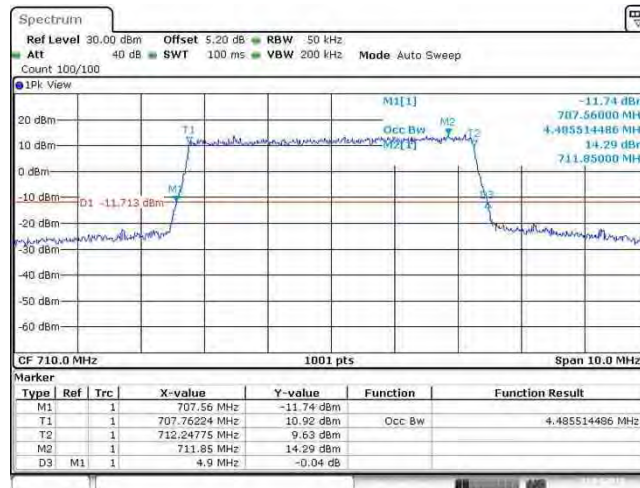
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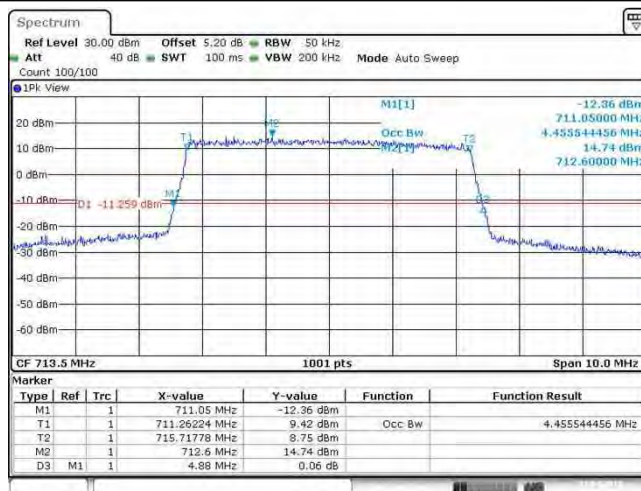
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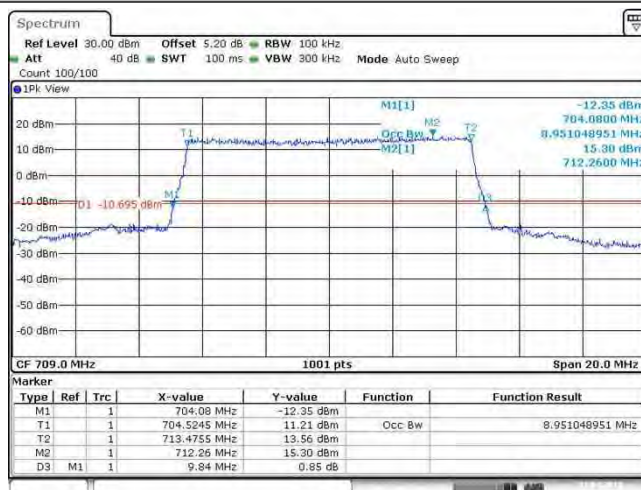
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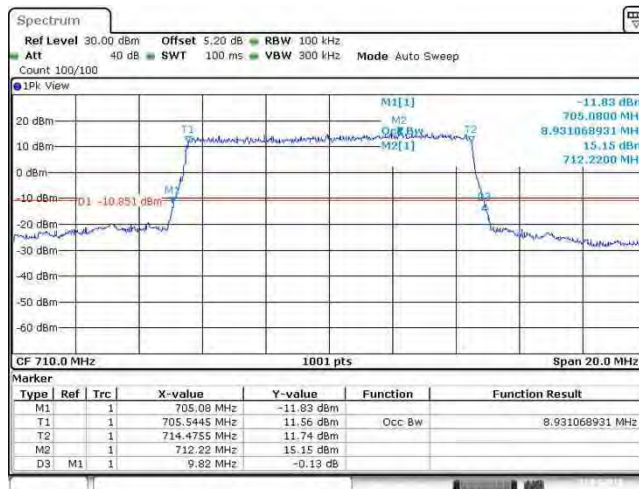
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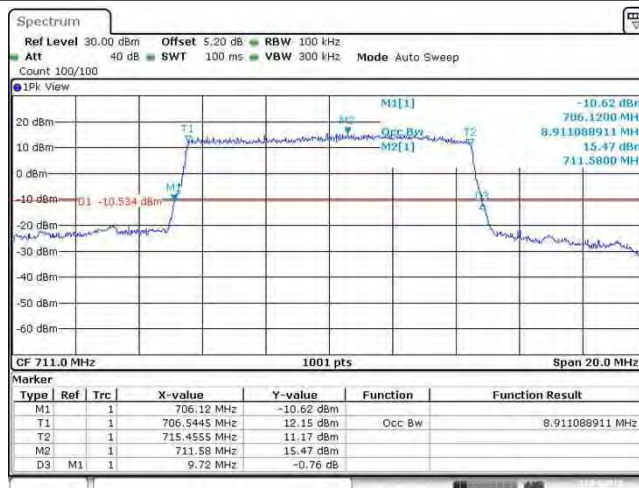
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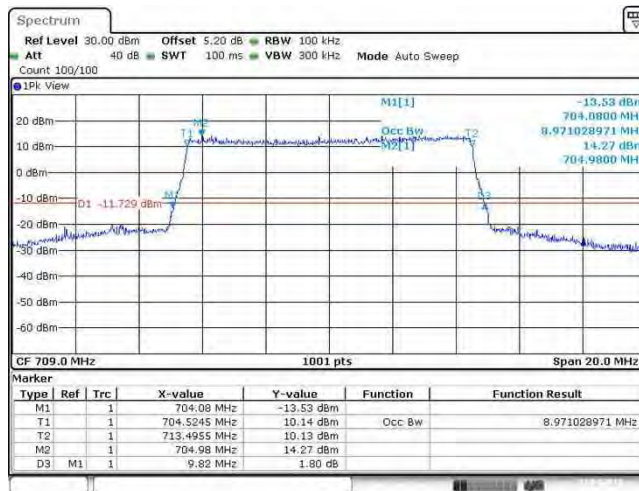
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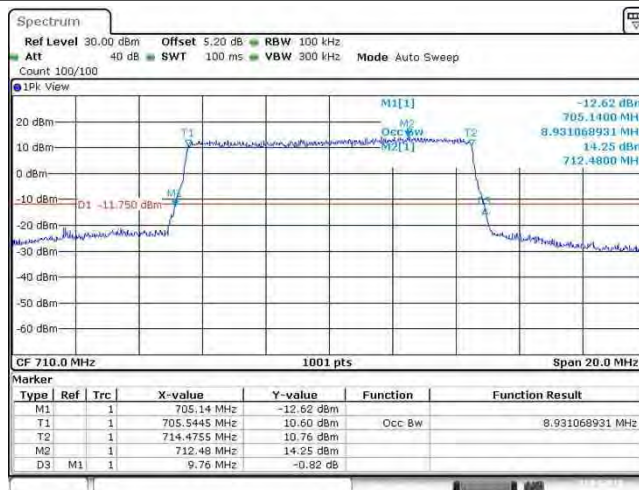
Band17_10MHz_64QAM_23780_50RB#0





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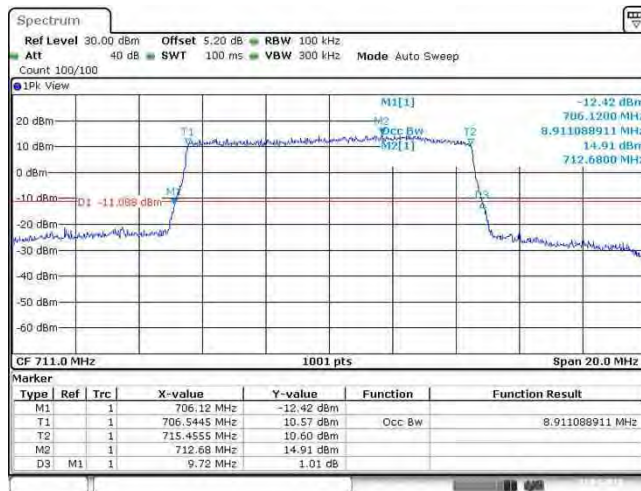
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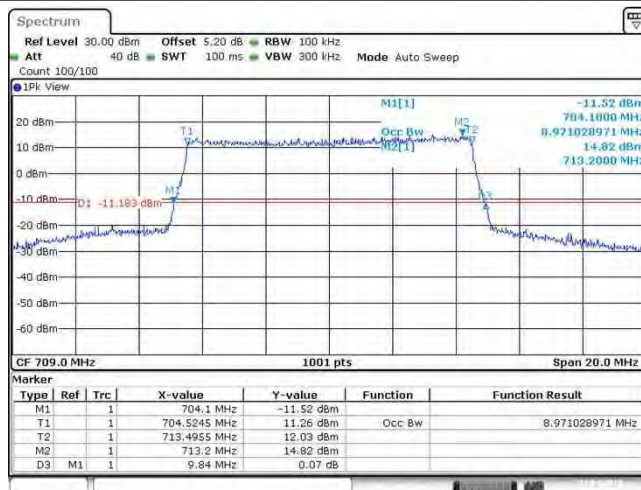
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Date: 19 APR 2019 20:27:47

Band17_10MHz_16QAM_23780_50RB#0



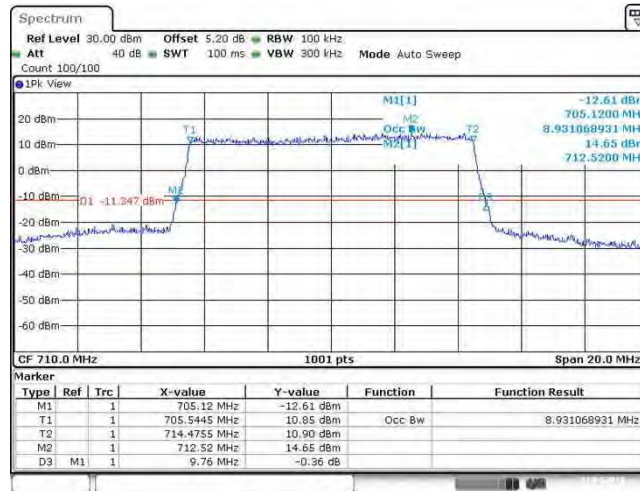
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Band17_10MHz_16QAM_23790_50RB#0



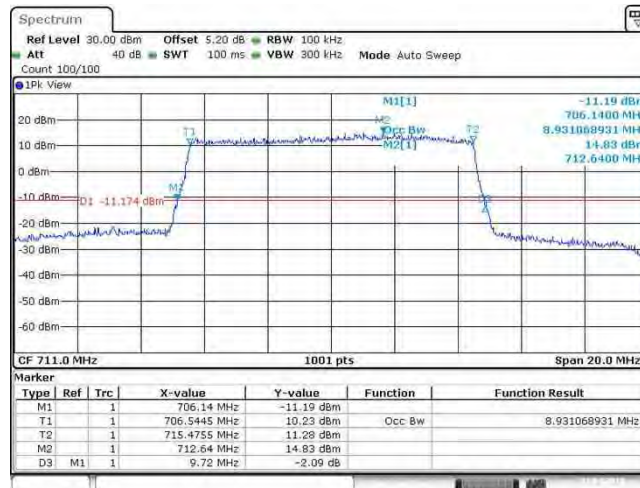
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Date: 19 APR 2019 20:26:29

Band17_10MHz_16QAM_23800_50RB#0



Date: 19 APR 2019 20:27:27



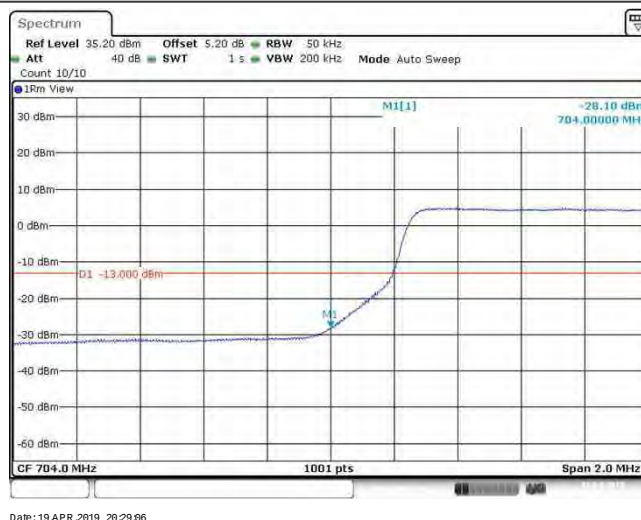
5. Band Edge Compliance

5.1. Test Plots

Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_25RB#0



Band17_5MHz_QPSK_23825_1RB#24



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Band17_5MHz_64QAM_23755_1RB#0



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Band17_5MHz_64QAM_23755_25RB#0



Band17_5MHz_64QAM_23825_1RB#24



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Band17_5MHz_64QAM_23825_25RB#0



Band17_5MHz_16QAM_23755_1RB#0



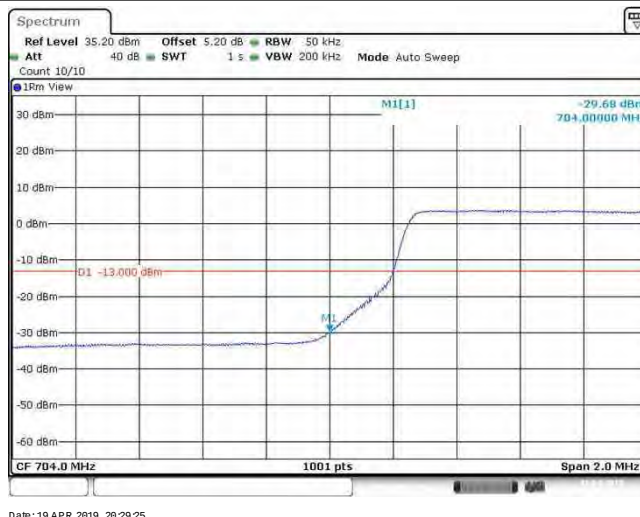
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Band17_5MHz_16QAM_23755_25RB#0



Date: 19 APR 2019 20:29:25

Band17_5MHz_16QAM_23825_1RB#24





Band17_5MHz_16QAM_23825_25RB#0



Band17_10MHz_QPSK_23780_1RB#0



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Band17_10MHz_QPSK_23780_50RB#0



Band17_10MHz_QPSK_23800_1RB#49





Band17_10MHz_QPSK_23800_50RB#0

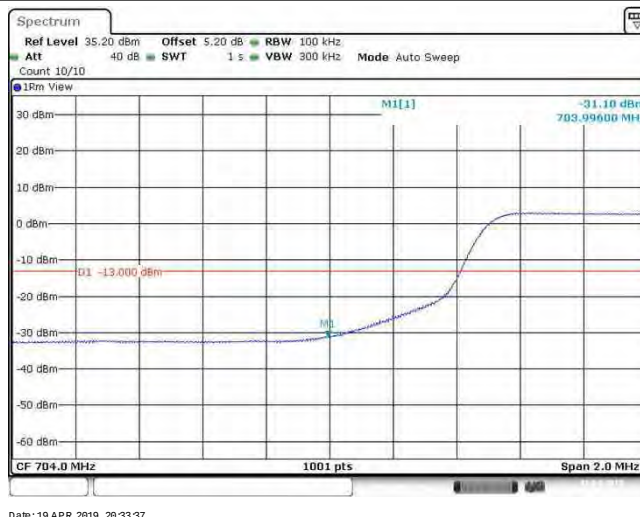


Band17_10MHz_64QAM_23780_1RB#0





Band17_10MHz_64QAM_23780_50RB#0



Band17_10MHz_64QAM_23800_1RB#49





Band17	10MHz	64QAM	23800	50RB#0
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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





Date: 19 APR 2019 20:34:18

Band17_10MHz_16QAM_23800_50RB#0



Date: 19 APR 2019 20:35:15



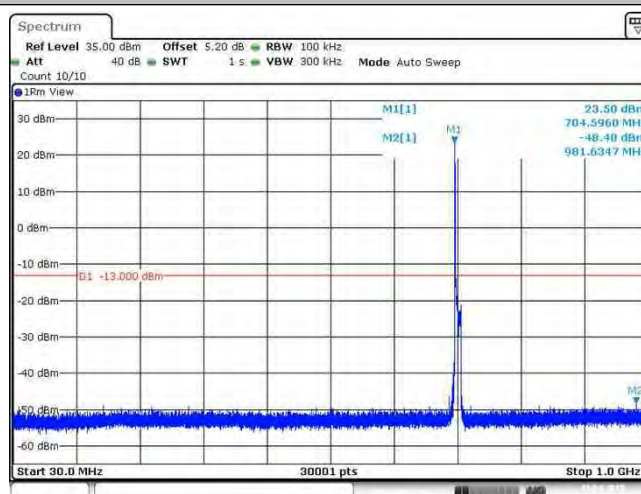
6. Spurious Emission at Antenna Terminal

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.

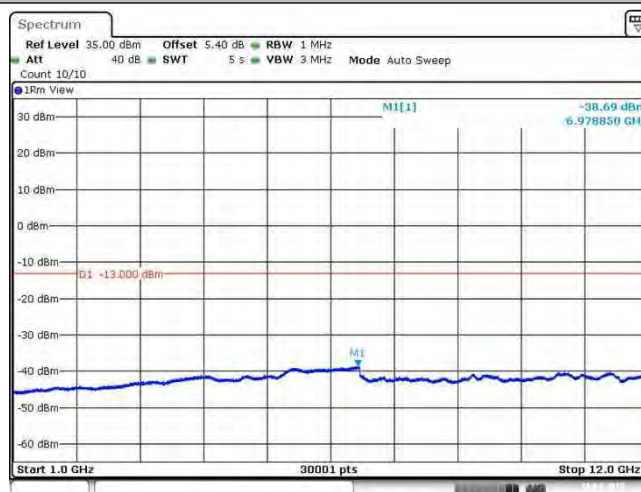
6.1. Test Plots

Band17_10MHz_QPSK_23780_1RB#0



Date: 19 APR 2019 20:35:56

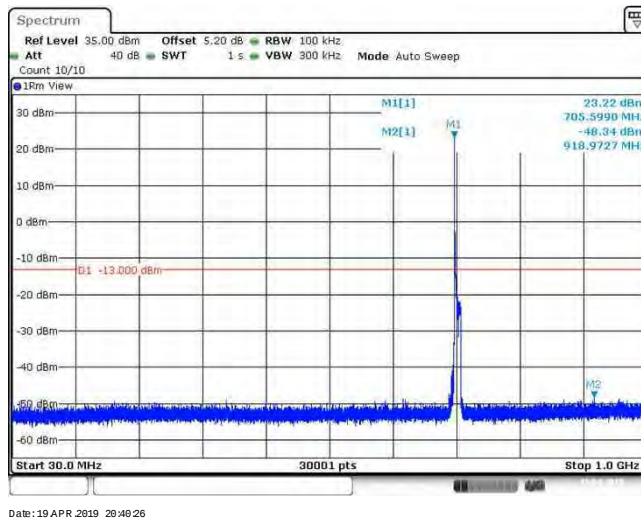
Band17_10MHz_QPSK_23780_1RB#0



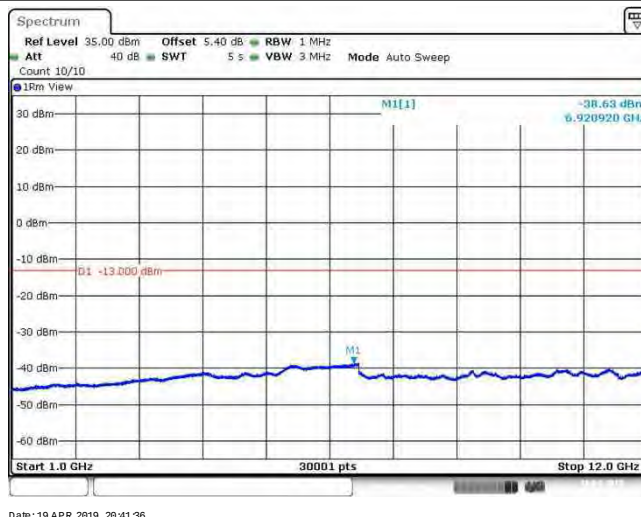
Date: 19 APR 2019 20:37:06

Band17_10MHz_QPSK_23790_1RB#0





Band17_10MHz_QPSK_23790_1RB#0



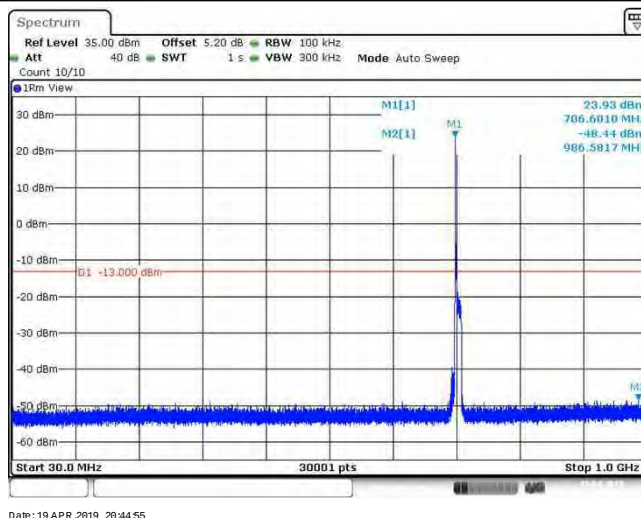
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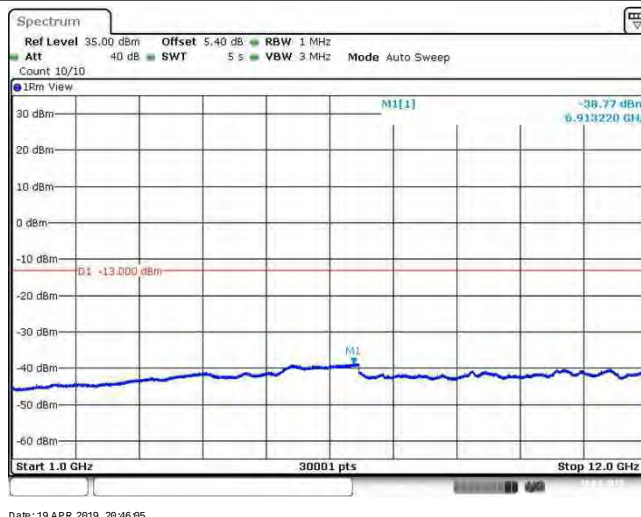
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Band17_10MHz_QPSK_23800_1RB#0

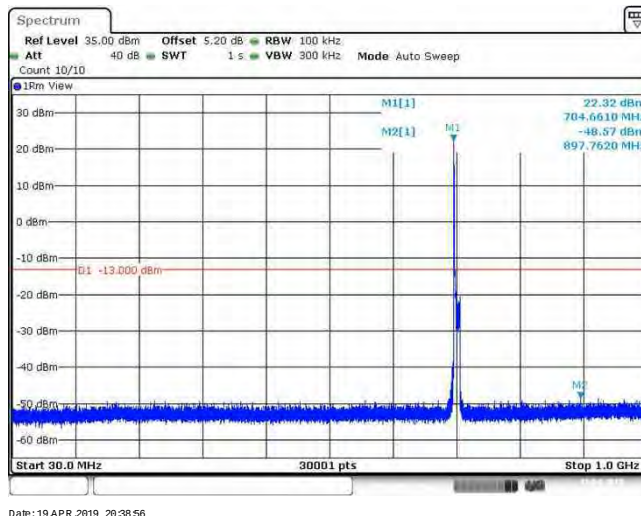


Band17_10MHz_64QAM_23780_1RB#0

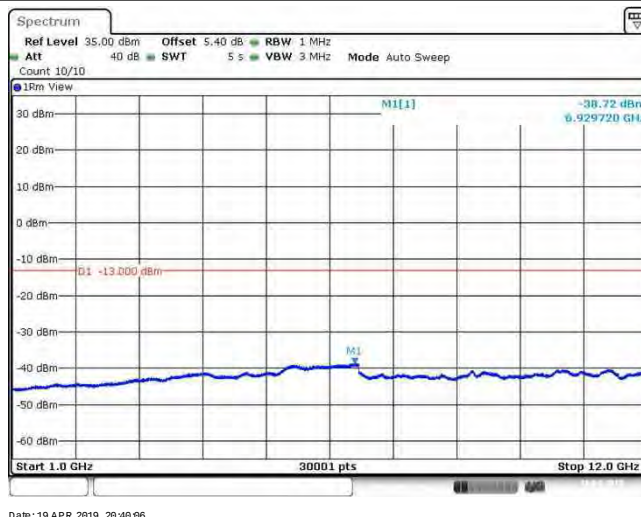


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Band17_10MHz_64QAM_23780_1RB#0

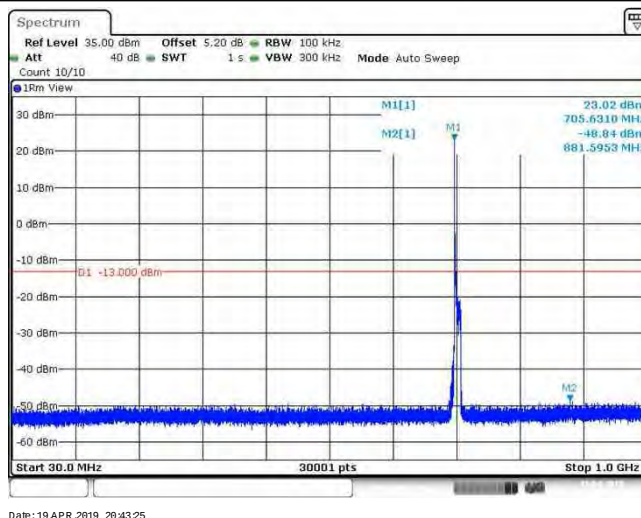


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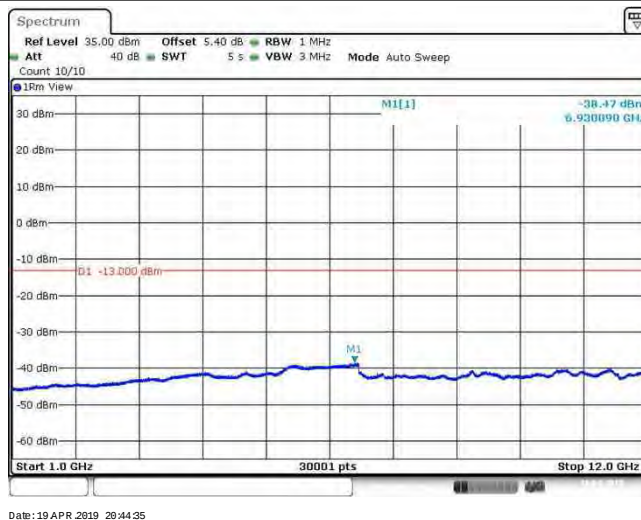


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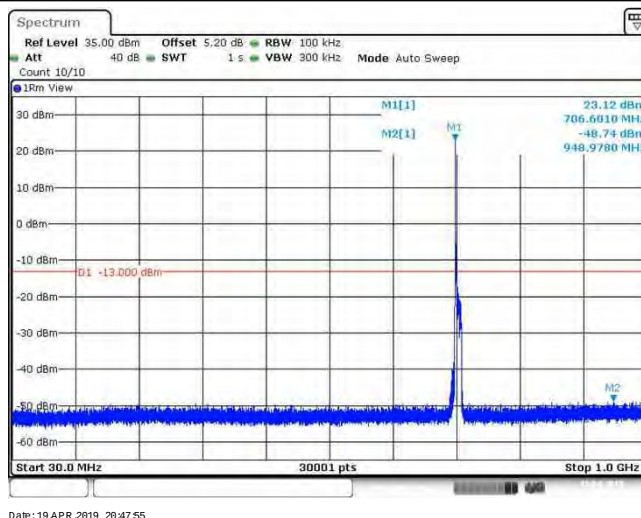


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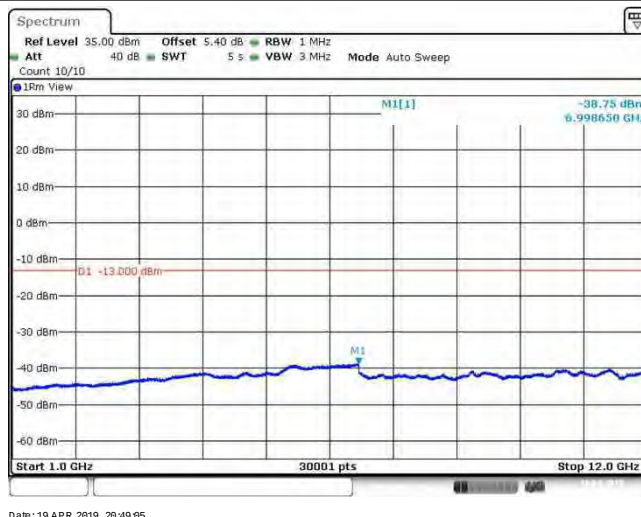


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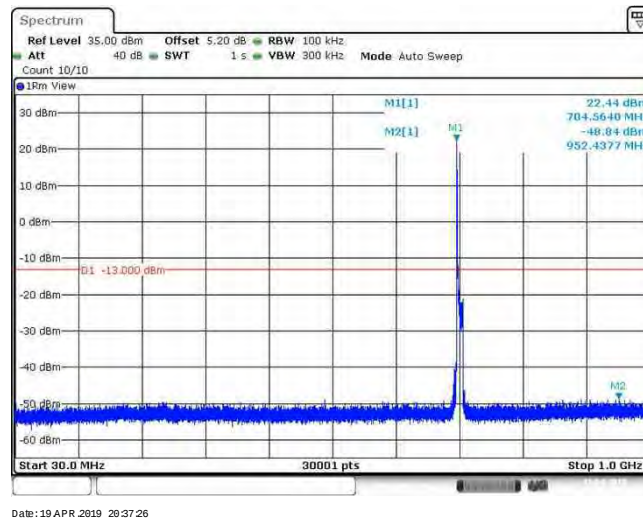


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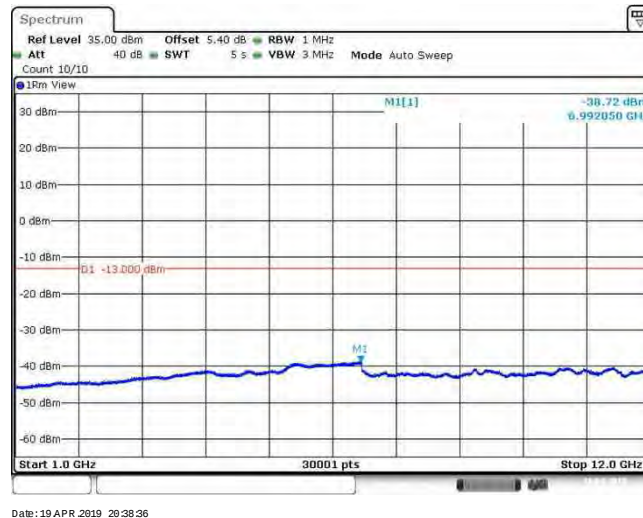


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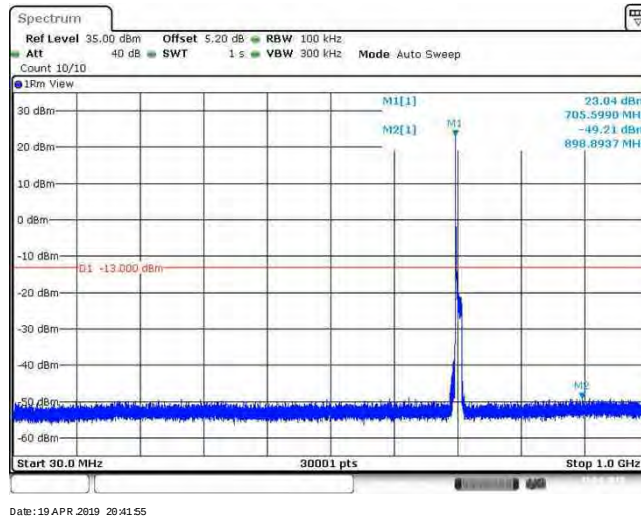


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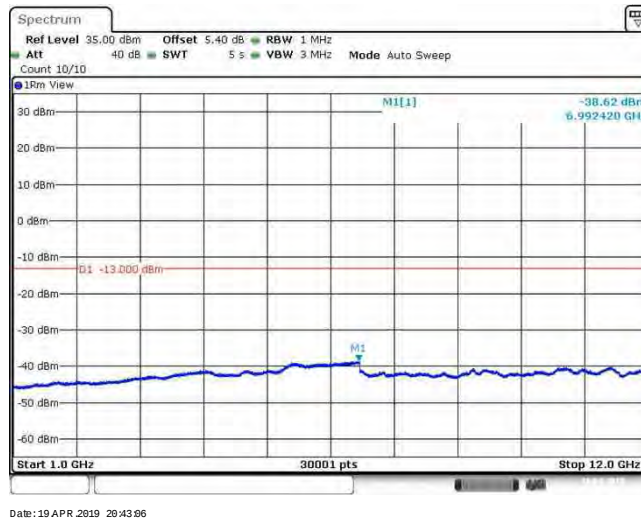


Band17_10MHz_16QAM_23790_1RB#0





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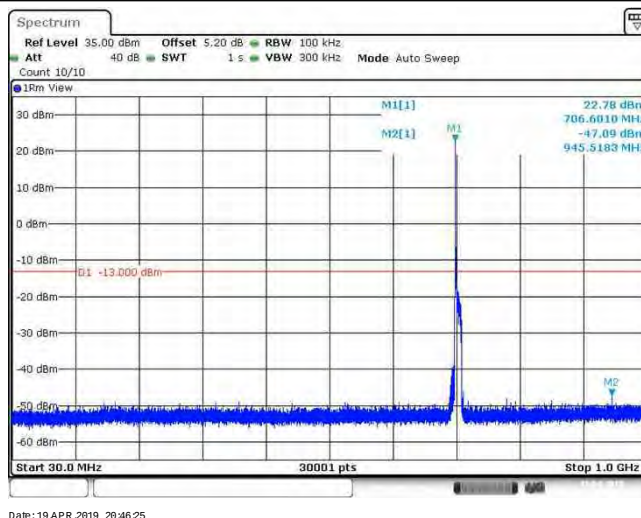


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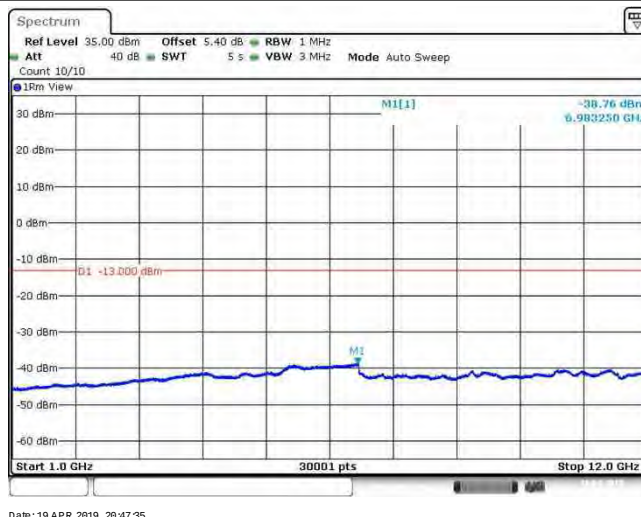


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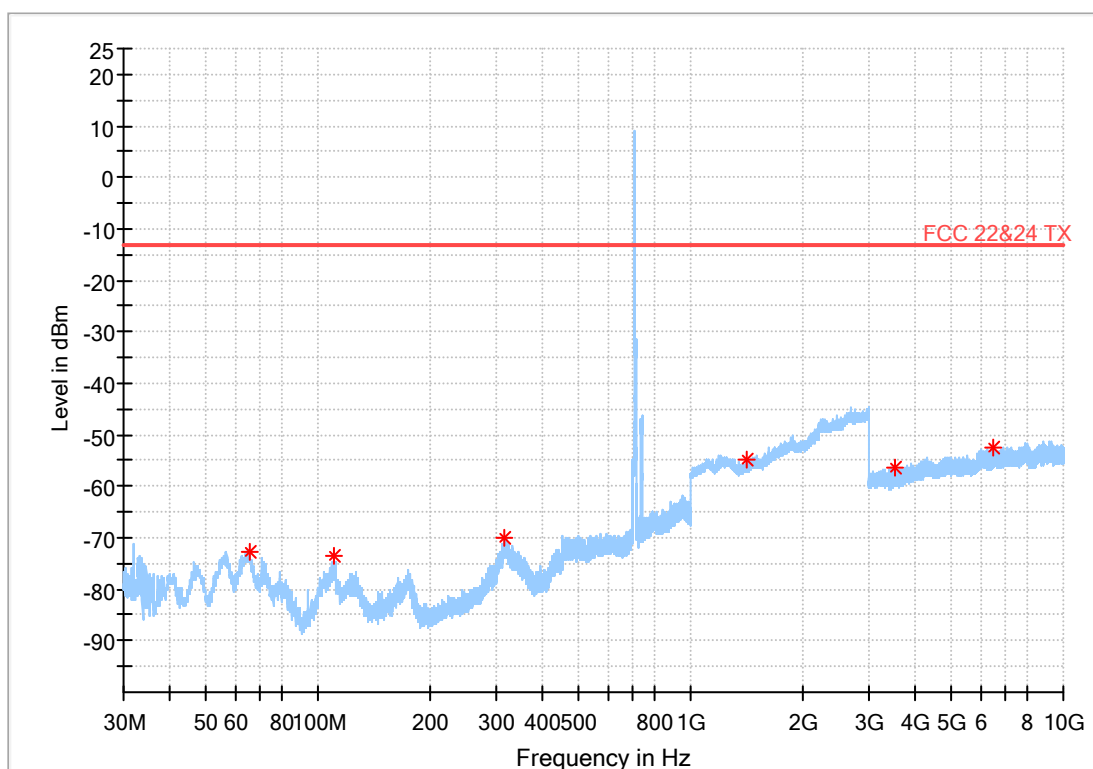
7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 17

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

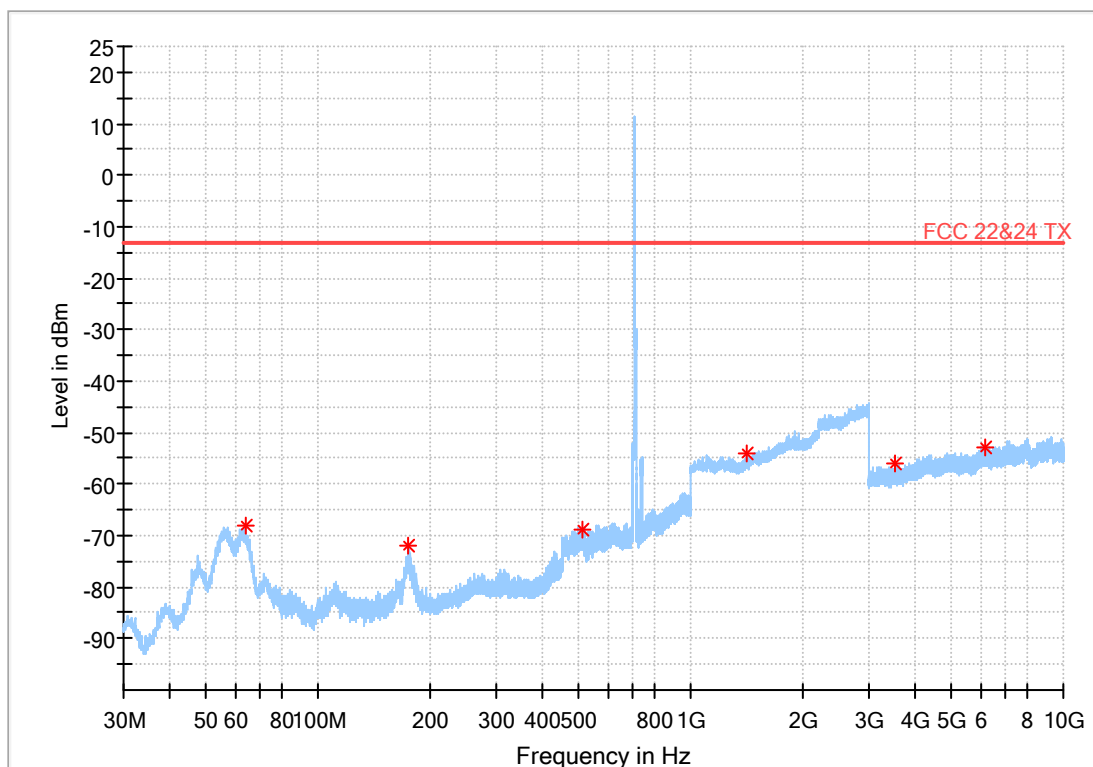
7.1.1.1. Test Channel = LCH_Vertical

Full Spectrum



7.1.1.2. Test Channel = LCH_Horizontal

Full Spectrum



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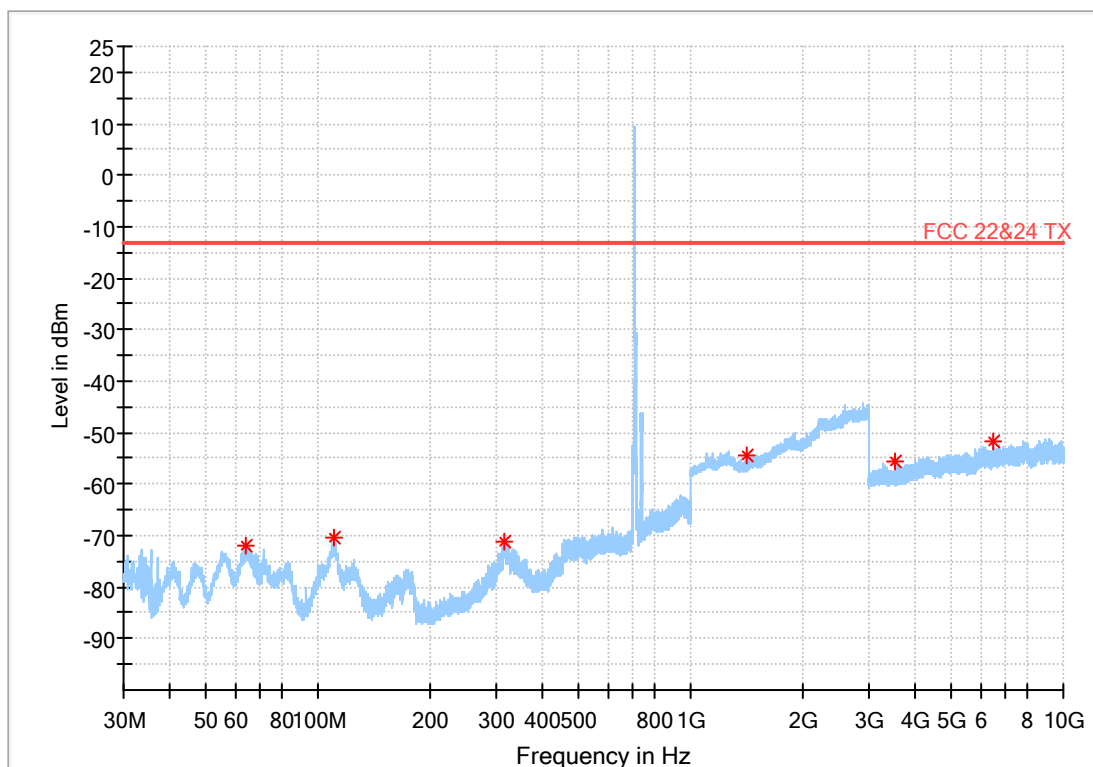
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7.1.1.3. Test Channel = MCH_Vertical

Full Spectrum



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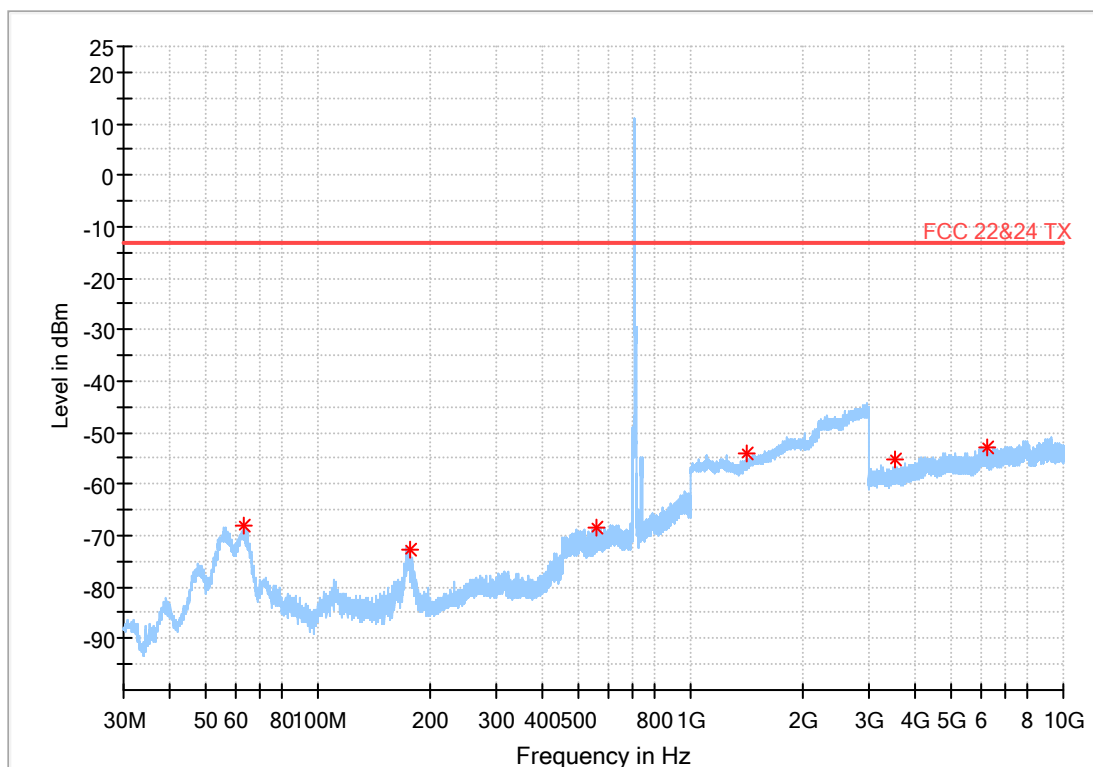
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7.1.1.4. Test Channel = MCH_ Horizontal

Full Spectrum



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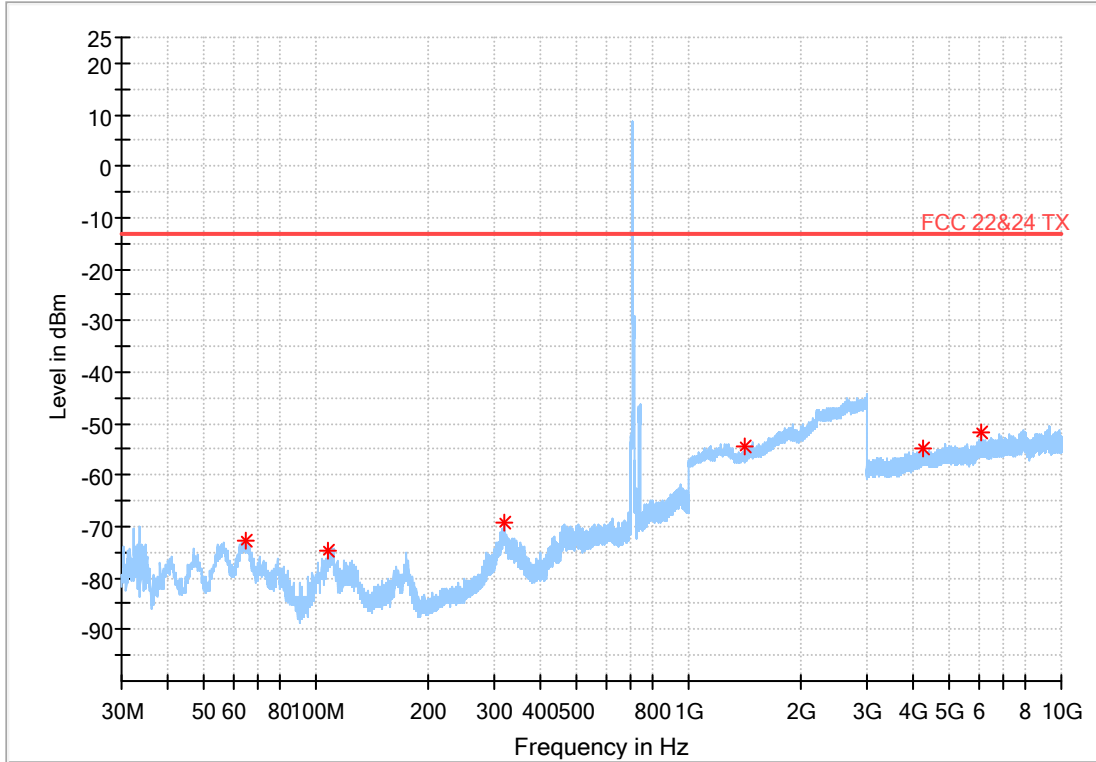
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7.1.1.5. Test Channel = HCH_Vertical

Full Spectrum

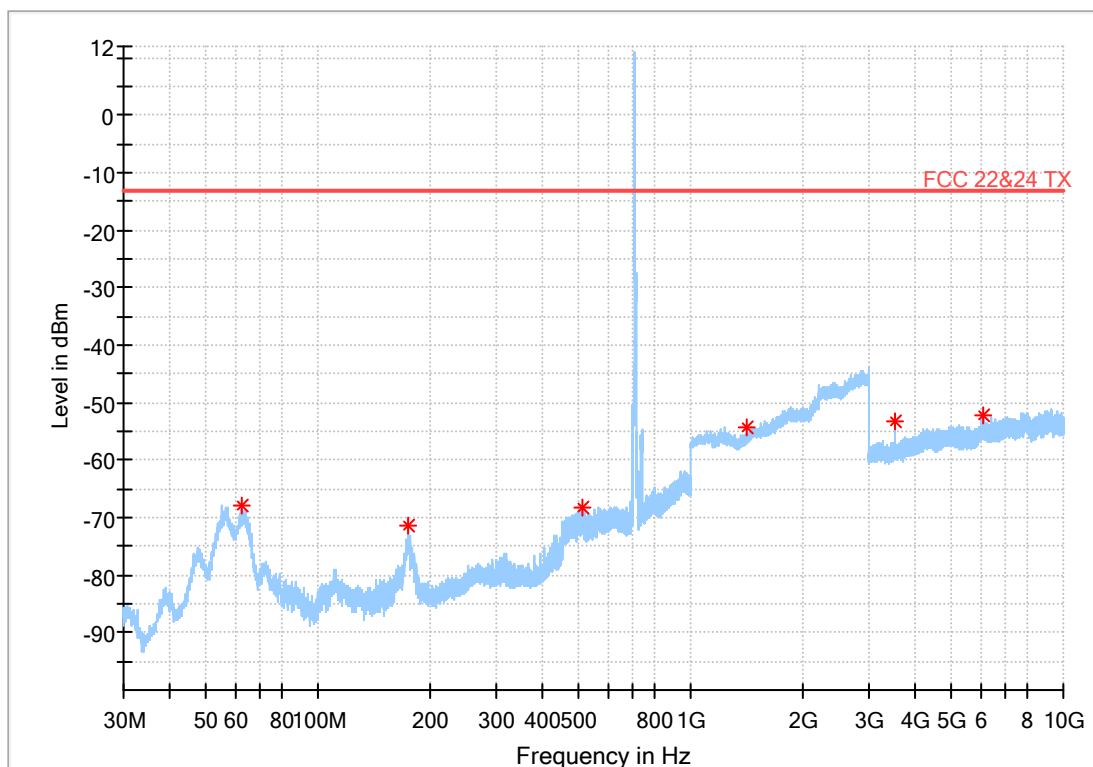


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7.1.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



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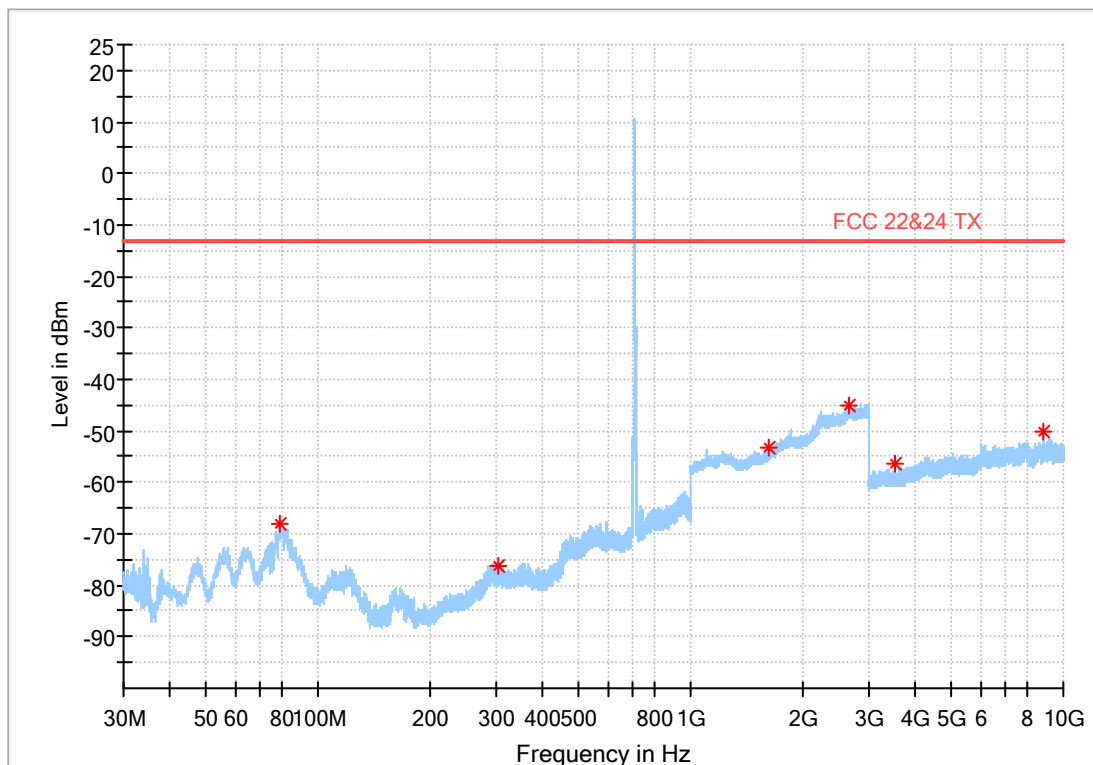
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7.1.2. Test Mode = LTE/TM1 (Up Ant)

7.1.2.1. Test Channel = LCH_Vertical

Full Spectrum



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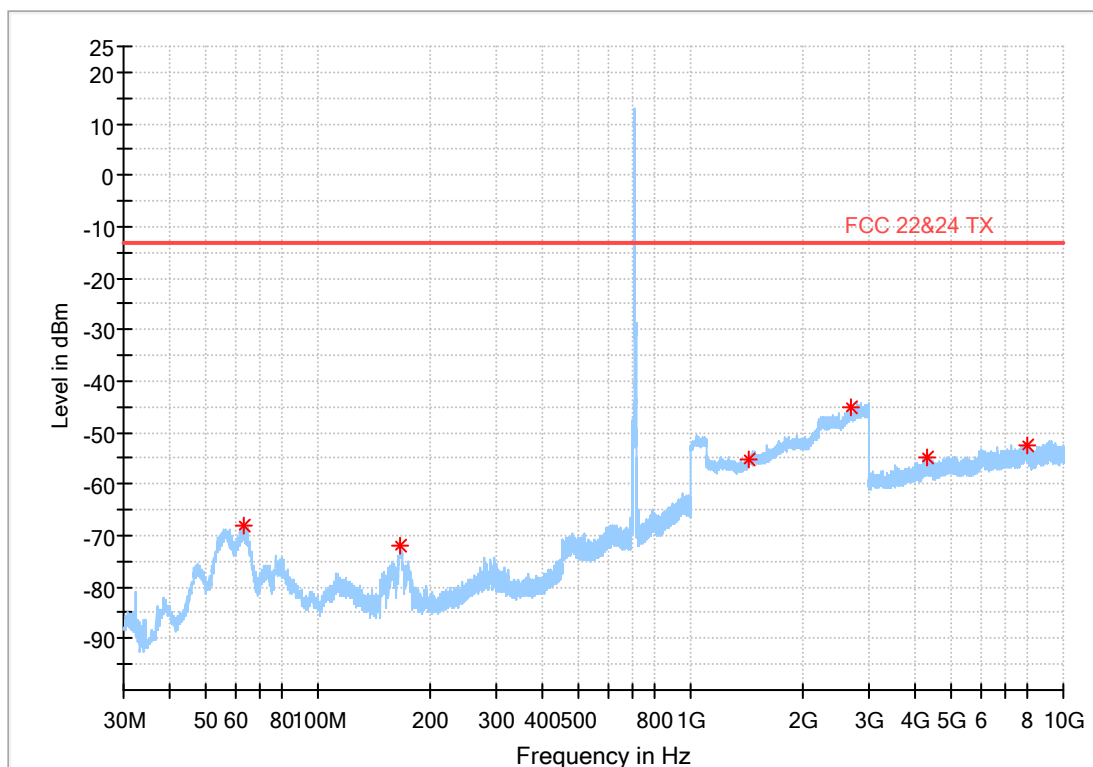
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7.1.2.2. Test Channel = LCH_Horizontal

Full Spectrum



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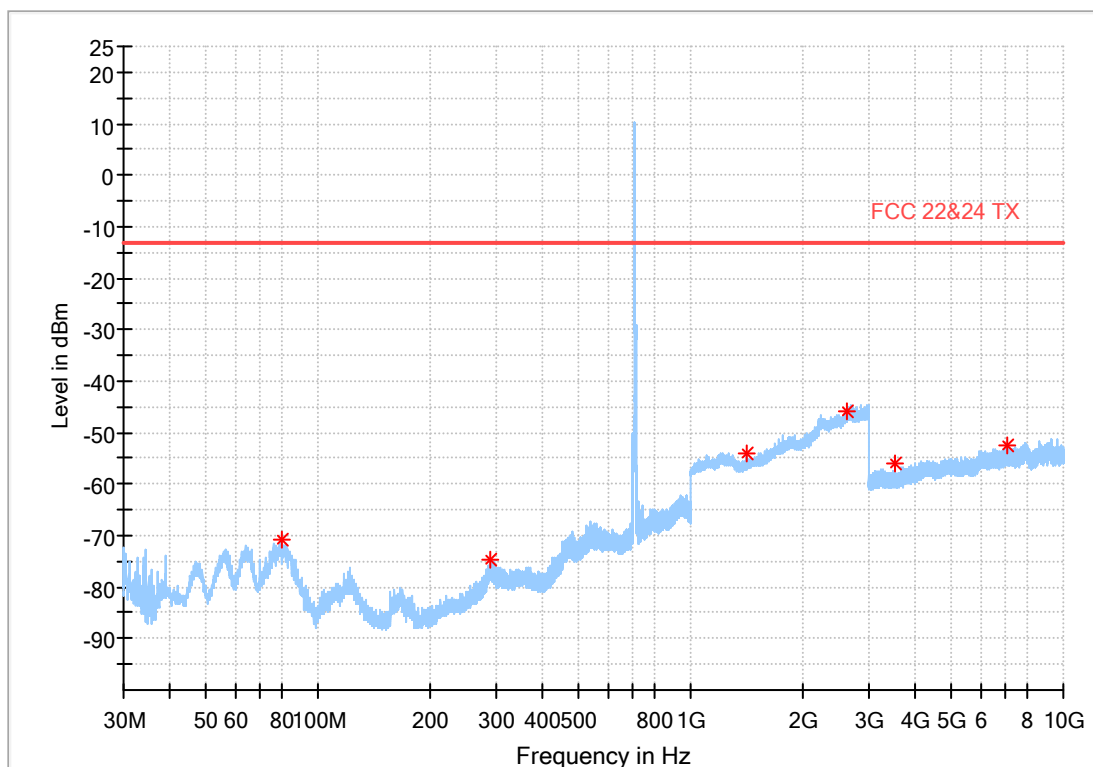
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7.1.2.3. Test Channel = MCH_ Vertical

Full Spectrum



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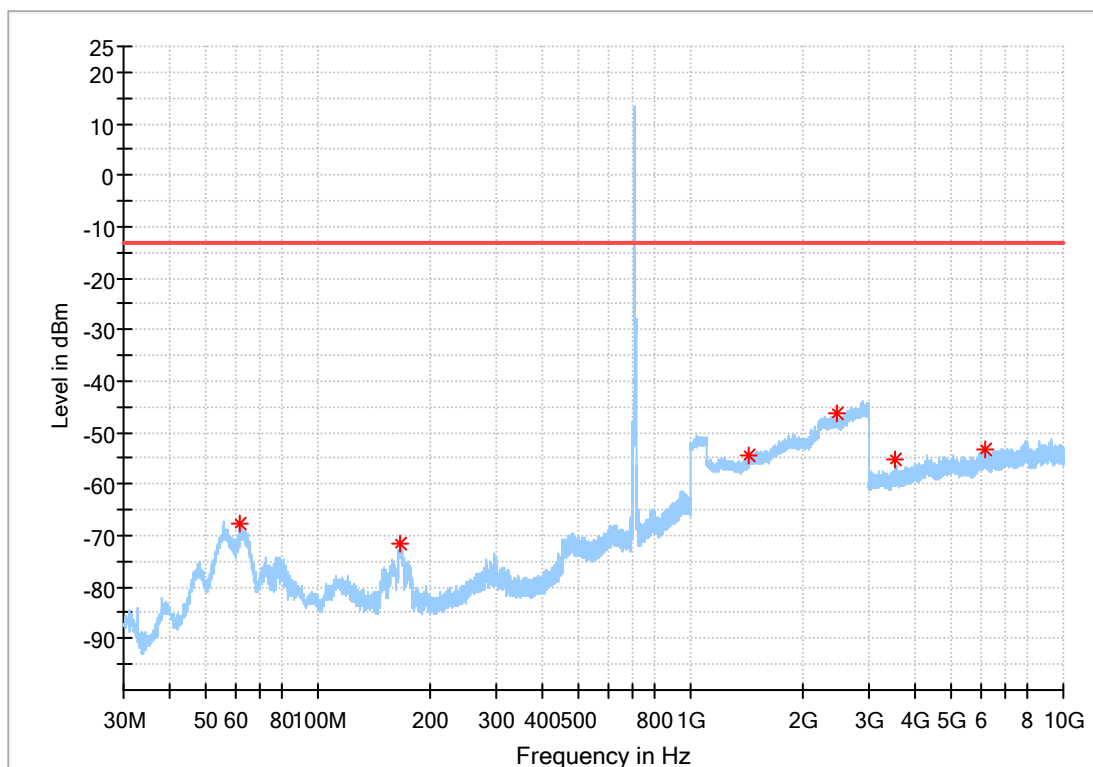
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7.1.2.4. Test Channel = MCH_Horizontal

Full Spectrum



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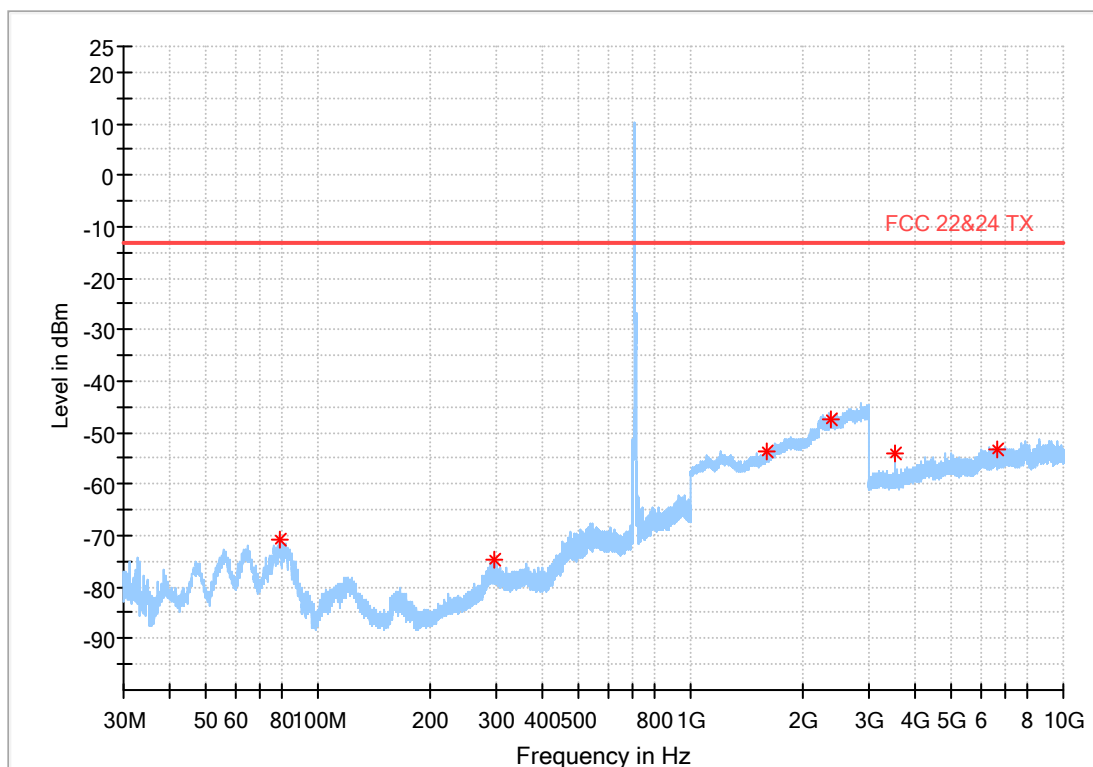
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7.1.2.5. Test Channel = HCH_Vertical

Full Spectrum



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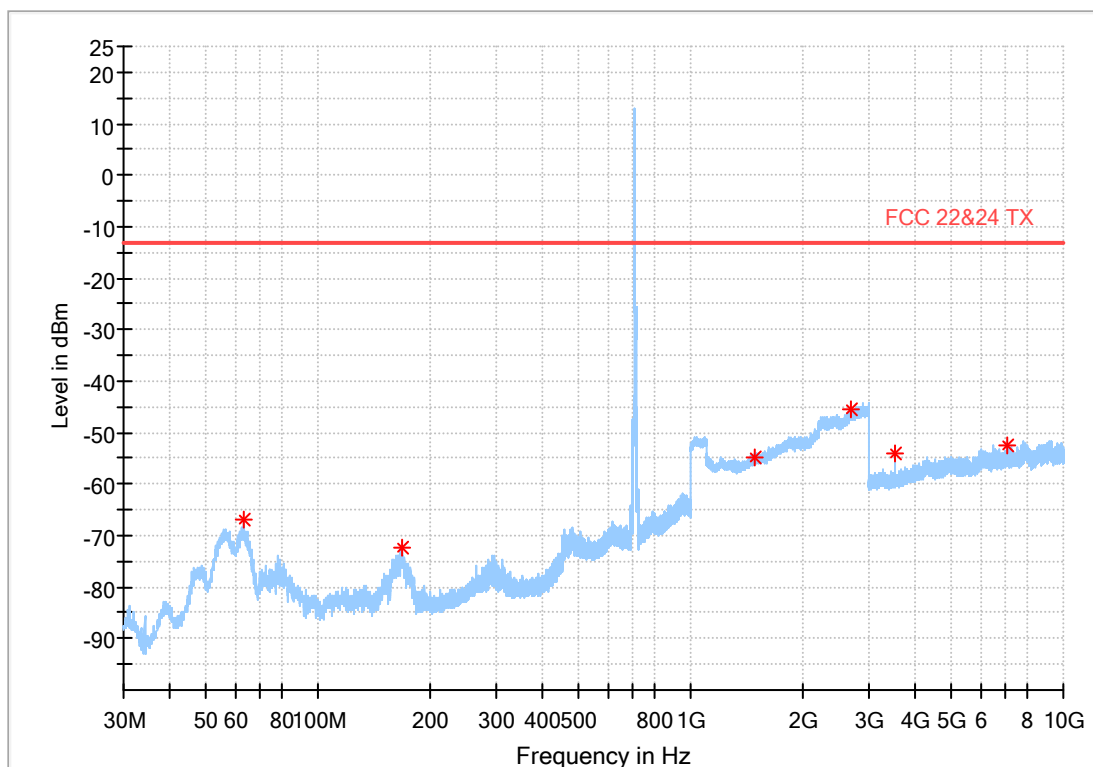
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7.1.2.6. Test Channel = HCH_Horizontal

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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