



Appendix B

E-UTRA Band 12



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 4

1.1. TEST RESULT 4

2. PEAK-TO-AVERAGE RATIO (CCDF)14

2.1. TEST RESULT 14

2.2. TEST PLOTS..... 14

3. MODULATION CHARACTERISTICS18

3.1. TEST MODE = LTE /TM1 10MHZ..... 18

3.1.1. TEST CHANNEL = MCH..... 18

3.2. TEST MODE = LTE /TM2 10MHZ..... 19

3.2.1. TEST CHANNEL = MCH..... 19

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH20

4.1. TEST RESULT 20

4.2. TEST PLOTS..... 21

5. BAND EDGE COMPLIANCE33

5.1. TEST PLOTS..... 33

6. SPURIOUS EMISSION AT ANTENNA TERMINAL50

6.1. TEST PLOTS..... 50

7. FIELD STRENGTH OF SPURIOUS RADIATION57

7.1. Test Band = LTE_12_TM1 DOWN ANT..... 57

7.1.1. Test Channel = Low Channel 57

7.2. Test Band = LTE_12_TM1 DOWN ANT..... 58

7.2.1. Test Channel = Low Channel 58

7.3. Test Band = LTE_12_TM1 DOWN ANT..... 59

7.3.1. Test Channel = Mid Channel 59

7.4. Test Band = LTE_12_TM1 DOWN ANT..... 60

7.4.1. Test Channel = Mid Channel 60

7.5. Test Band = LTE_12_TM1 DOWN ANT..... 61

7.5.1. Test Channel = High Channel 61

7.6. Test Band = LTE_12_TM1 DOWN ANT..... 62

7.6.1. Test Channel = High Channel 62

7.7. Test Band = LTE_12_TM1 UP ANT..... 63



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7.7.1.	Test Channel = Low Channel	63
7.8.	Test Band = LTE_12_TM1 UP ANT	64
7.8.1.	Test Channel = Low Channel	64
7.9.	Test Band = LTE_12_TM1 UP ANT	65
7.9.1.	Test Channel = Mid Channel	65
7.10.	Test Band = LTE_12_TM1 UP ANT	66
7.10.1.	Test Channel = Mid Channel	66
7.11.	Test Band = LTE_12_TM1 UP ANT	67
7.11.1.	Test Channel = High Channel	67
7.12.	Test Band = LTE_12_TM1 UP ANT	68
7.12.1.	Test Channel = High Channel	68
8.	FREQUENCY STABILITY	69
8.1.	FREQUENCY VS VOLTAGE	69
8.2.	FREQUENCY VS TEMPERATURE	70



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Down Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.10	19.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.11	19.36	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.09	19.34	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	19.63	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.06	19.31	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.03	19.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.13	18.38	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.75	20.00	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.98	20.23	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.62	19.87	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.77	20.02	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.70	19.95	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.77	20.02	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.69	18.94	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.69	19.94	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.89	20.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.88	20.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.84	20.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.00	20.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.99	20.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.72	18.97	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.36	18.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.52	18.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.64	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.07	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.09	18.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.07	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.39	17.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.07	19.32	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.37	19.62	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.41	19.66	34.77	PASS



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Band12	1.4MHz	16QAM	23095	3RB#0	22.78	19.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.64	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.69	18.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.65	17.90	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.23	19.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.14	19.39	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.95	19.20	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.69	18.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.92	19.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.75	19.00	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.13	18.38	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.66	19.91	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.30	19.55	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.12	19.37	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.34	18.59	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.42	18.67	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.27	18.52	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.34	18.59	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.73	19.98	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.76	20.01	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.63	19.88	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.53	18.78	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.71	18.96	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.70	18.95	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.55	18.80	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.77	20.02	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.81	20.06	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.76	20.01	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.68	18.93	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.84	19.09	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.87	19.12	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.73	18.98	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.61	18.86	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.79	19.04	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.48	18.73	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.33	17.58	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.34	17.59	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.30	17.55	34.77	PASS



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Band12	3MHz	16QAM	23025	15RB#0	21.36	17.61	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.04	19.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.98	19.23	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.56	18.81	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.61	17.86	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.59	17.84	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.63	17.88	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.64	17.89	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.88	19.13	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.44	19.69	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.15	19.40	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.80	18.05	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.84	18.09	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.66	17.91	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.88	18.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.72	19.97	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.71	19.96	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.42	19.67	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.34	18.59	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.39	18.64	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.58	18.83	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.49	18.74	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.63	19.88	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.95	20.20	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.74	19.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.70	18.95	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.73	18.98	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.76	19.01	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.77	19.02	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.89	20.14	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.77	20.02	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.84	20.09	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.85	19.10	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.80	19.05	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.78	19.03	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.66	18.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.66	18.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.87	19.12	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#24	22.95	19.20	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.38	17.63	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.44	17.69	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.55	17.80	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.52	17.77	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.83	19.08	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.94	19.19	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.85	19.10	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.64	17.89	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.57	17.82	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.64	17.89	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.66	17.91	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.75	19.00	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.29	19.54	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.05	19.30	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.71	17.96	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.77	18.02	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.88	18.13	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.69	17.94	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.57	19.82	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.33	19.58	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.85	20.10	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.54	18.79	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.61	18.86	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.73	18.98	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.59	18.84	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.78	20.03	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.81	20.06	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.15	20.40	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.75	19.00	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.83	19.08	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.77	19.02	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.73	18.98	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.76	20.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.87	20.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.13	20.38	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.71	18.96	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.81	19.06	34.77	PASS



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Band12	10MHz	QPSK	23130	25RB#25	22.74	18.99	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.60	18.85	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.82	19.07	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.86	19.11	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.24	19.49	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.52	17.77	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.58	17.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.64	17.89	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.62	17.87	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.72	18.97	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.59	18.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.85	19.10	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.56	17.81	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.74	17.99	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.75	18.00	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.61	17.86	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.77	19.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.95	19.20	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.93	19.18	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.57	17.82	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.71	17.96	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.71	17.96	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.75	18.00	34.77	PASS



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Up Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.23	18.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.39	18.44	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.22	18.27	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.87	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.92	17.97	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.83	17.88	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.17	17.22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.03	18.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.16	18.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.19	18.24	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.84	17.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.87	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.84	17.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.19	17.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.47	18.52	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.62	18.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.34	18.39	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.15	18.20	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.00	18.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.90	17.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.02	17.07	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.26	17.31	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.17	17.22	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.34	17.39	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.74	16.79	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.79	16.84	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.71	16.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.28	16.33	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.29	17.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.37	17.42	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.23	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.90	16.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.96	17.01	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.02	17.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.02	16.07	34.77	PASS



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Band12	1.4MHz	16QAM	23173	1RB#0	22.42	17.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.71	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.43	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.29	17.34	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.23	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.10	17.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.56	16.61	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.04	18.09	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.40	18.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.12	18.17	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.07	17.12	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.01	17.06	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.14	17.19	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.05	17.10	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.52	18.57	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.51	18.56	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.47	18.52	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.34	17.39	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.37	17.42	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.35	17.40	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.43	17.48	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.45	18.50	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.45	18.50	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.54	18.59	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.50	17.55	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.54	17.59	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.53	17.58	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.55	17.60	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.50	17.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.06	17.11	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.28	17.33	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.13	16.18	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.20	16.25	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.07	16.12	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.01	16.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.00	18.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.00	18.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.74	17.79	34.77	PASS



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Band12	3MHz	16QAM	23095	8RB#0	21.48	16.53	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.42	16.47	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.41	16.46	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.33	16.38	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.49	17.54	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.93	17.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.65	17.70	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.49	16.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.50	16.55	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.66	16.71	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.52	16.57	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.31	18.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.30	18.35	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.07	18.12	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.56	17.61	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.13	17.18	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.32	17.37	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.27	17.32	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.41	18.46	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.56	18.61	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.54	18.59	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.46	17.51	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.52	17.57	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.43	17.48	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.50	17.55	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.23	18.28	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.84	18.89	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.58	18.63	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.49	17.54	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.50	17.55	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.51	17.56	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.54	17.59	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.58	17.63	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.13	16.18	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.16	16.21	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.31	16.36	34.77	PASS



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Band12	5MHz	16QAM	23035	25RB#0	21.34	16.39	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.43	17.48	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.38	17.43	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.43	16.48	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.35	16.40	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.36	16.41	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.41	16.46	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.73	17.78	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.23	18.28	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.27	18.32	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.58	16.63	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.54	16.59	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.49	16.54	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.49	16.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.12	18.17	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.46	18.51	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.66	18.71	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.44	17.49	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.47	17.52	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.58	17.63	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.47	17.52	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.64	18.69	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.56	18.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.77	18.82	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.59	17.64	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.69	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.69	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.59	17.64	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.56	18.61	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.87	18.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.21	19.26	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.57	17.62	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.82	17.87	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.74	17.79	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.75	17.80	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.39	17.44	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.90	17.95	34.77	PASS



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Band12	10MHz	16QAM	23060	1RB#49	23.15	18.20	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.45	16.50	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.47	16.52	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.65	16.70	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.53	16.58	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.77	17.82	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.52	17.57	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.78	17.83	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.55	16.60	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.75	16.80	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.67	16.72	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.57	16.62	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.11	18.16	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.95	18.00	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.95	18.00	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.62	16.67	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.62	16.67	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.67	16.72	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.69	16.74	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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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

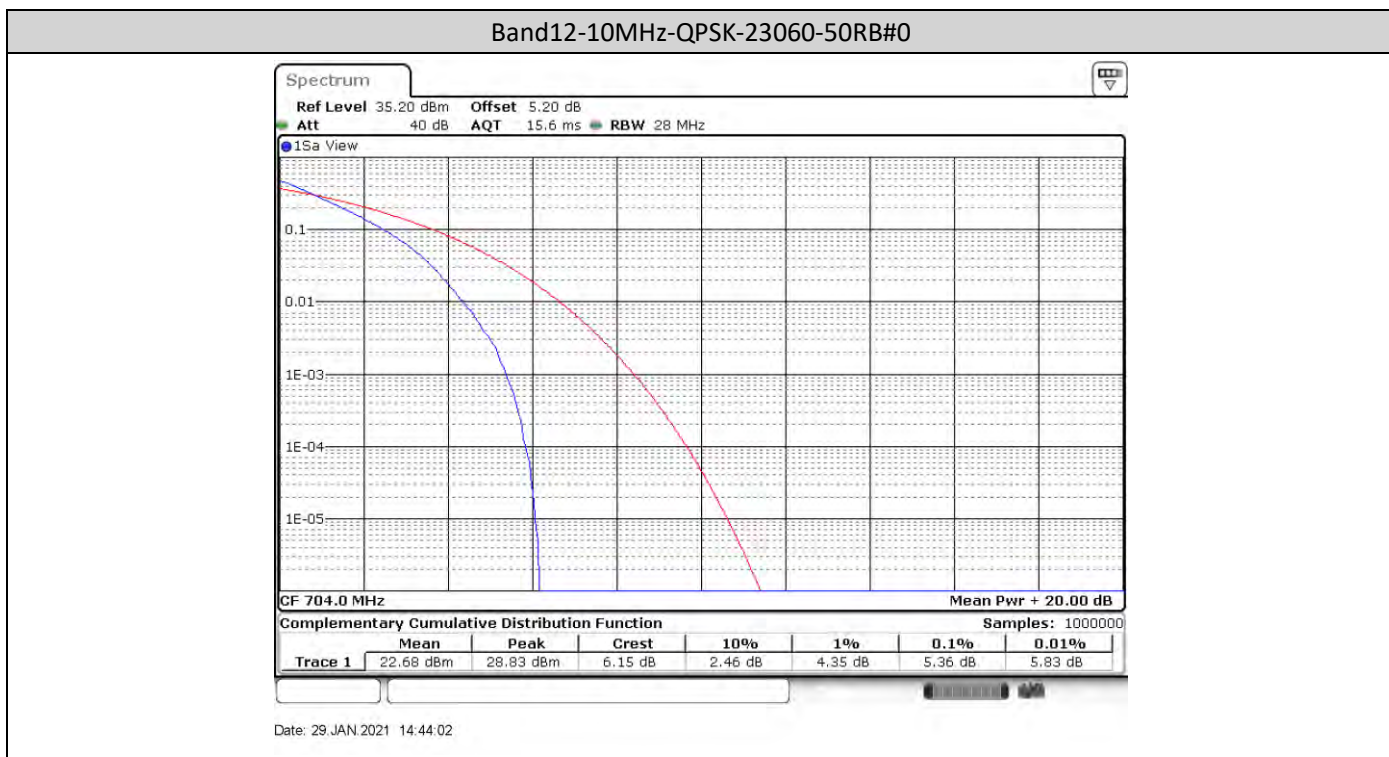


2. Peak-to-Average Ratio (CCDF)

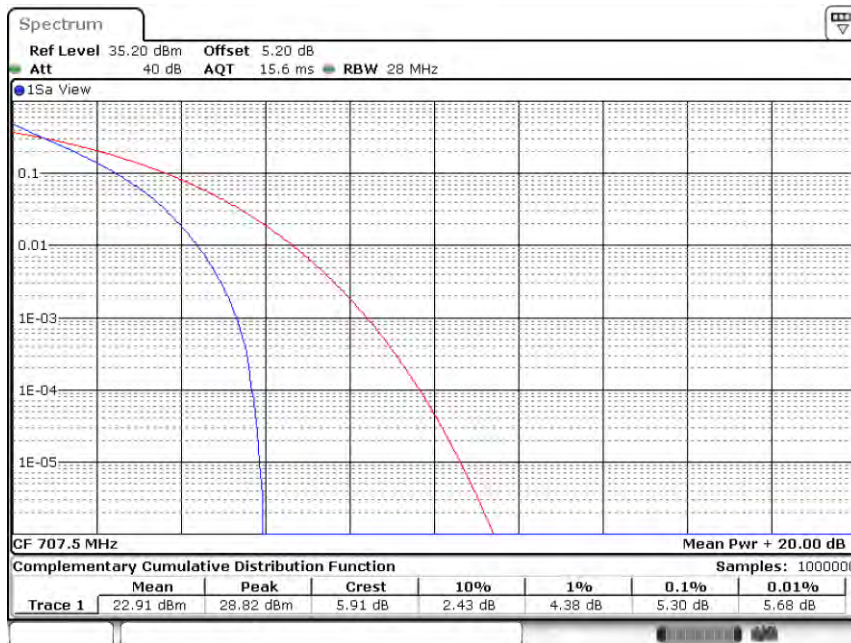
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.94	13	PASS

2.2. Test Plots

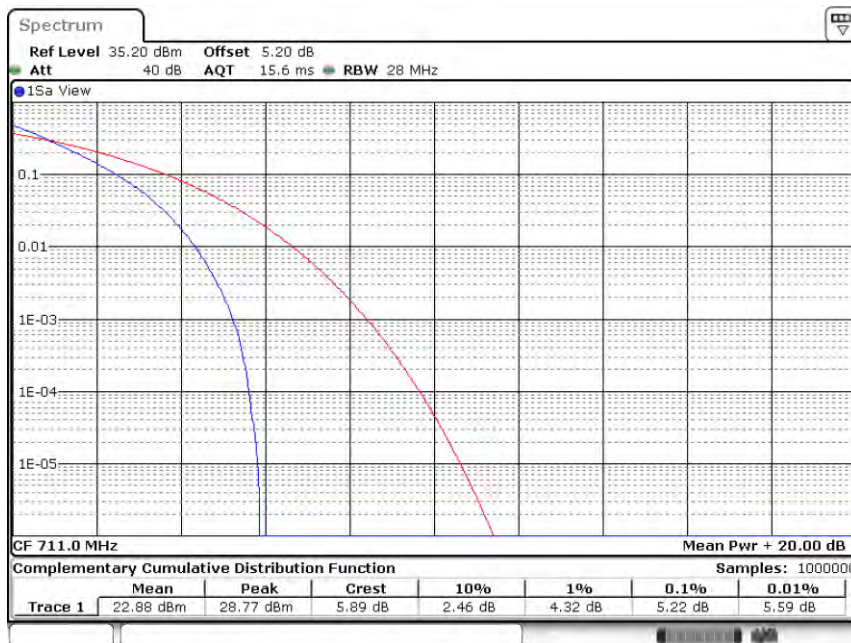


Band12-10MHz-QPSK-23095-50RB#0



Date: 29 JAN 2021 14:44:24

Band12-10MHz-QPSK-23130-50RB#0



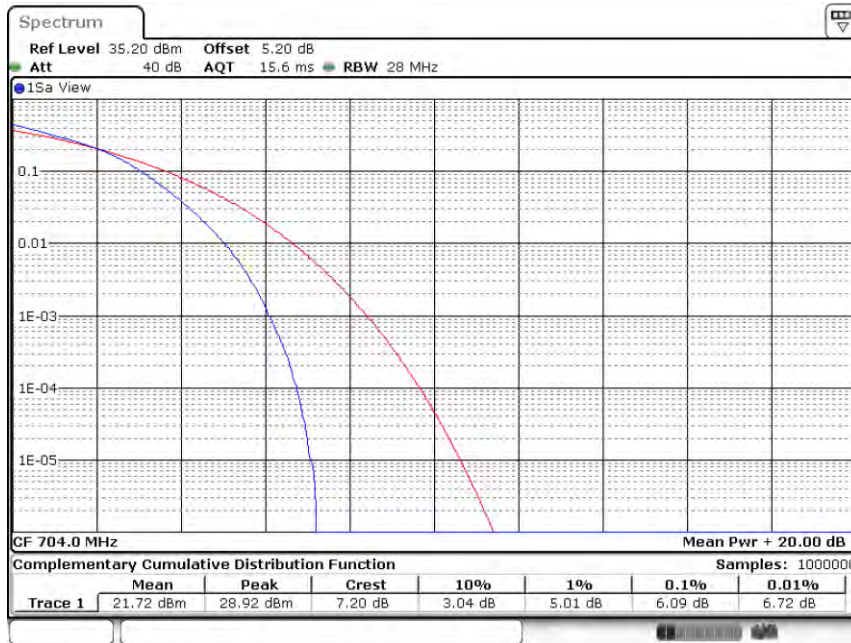
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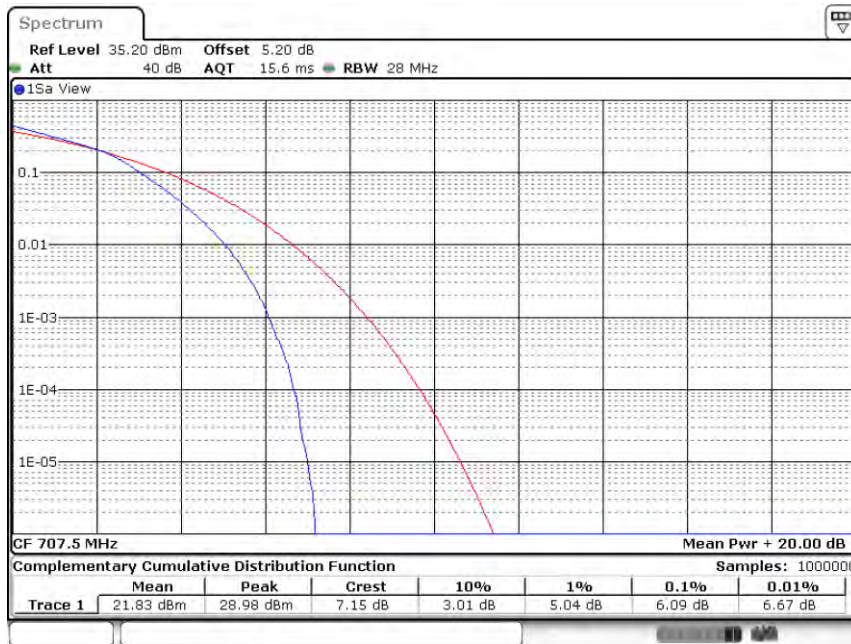
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Band12-10MHz-16QAM-23060-50RB#0



Date: 29 JAN 2021 14:44:13

Band12-10MHz-16QAM-23095-50RB#0

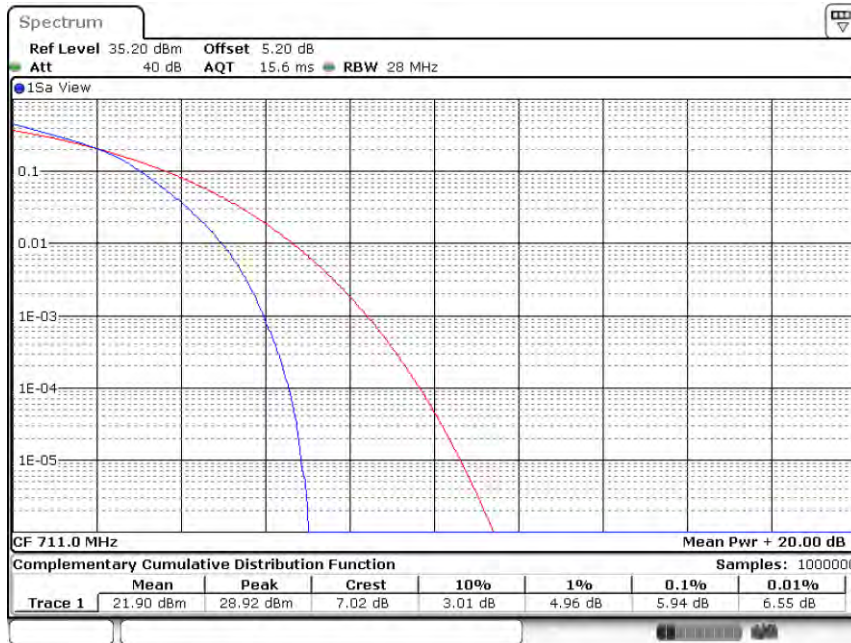


Date: 29 JAN 2021 14:44:36



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Band12-10MHz-16QAM-23130-50RB#0



Date: 29 JAN 2021 14:44:58

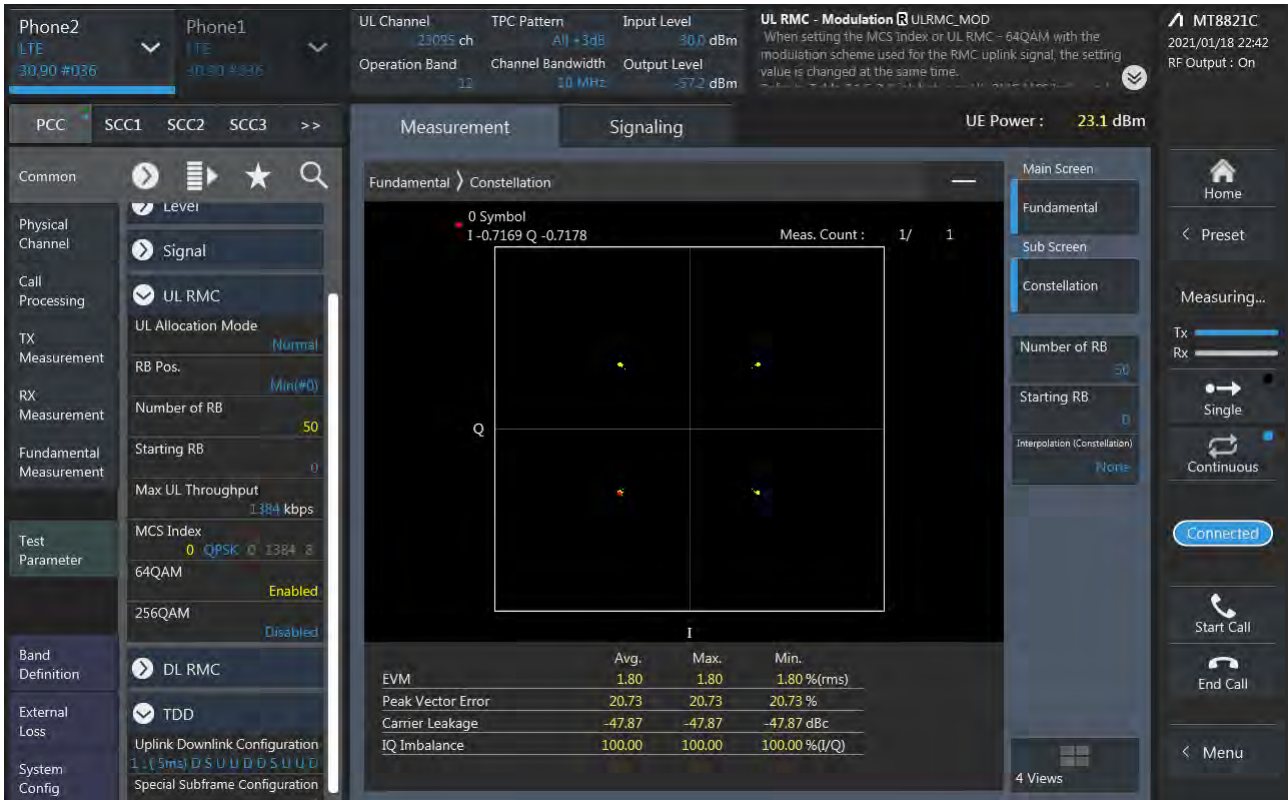


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

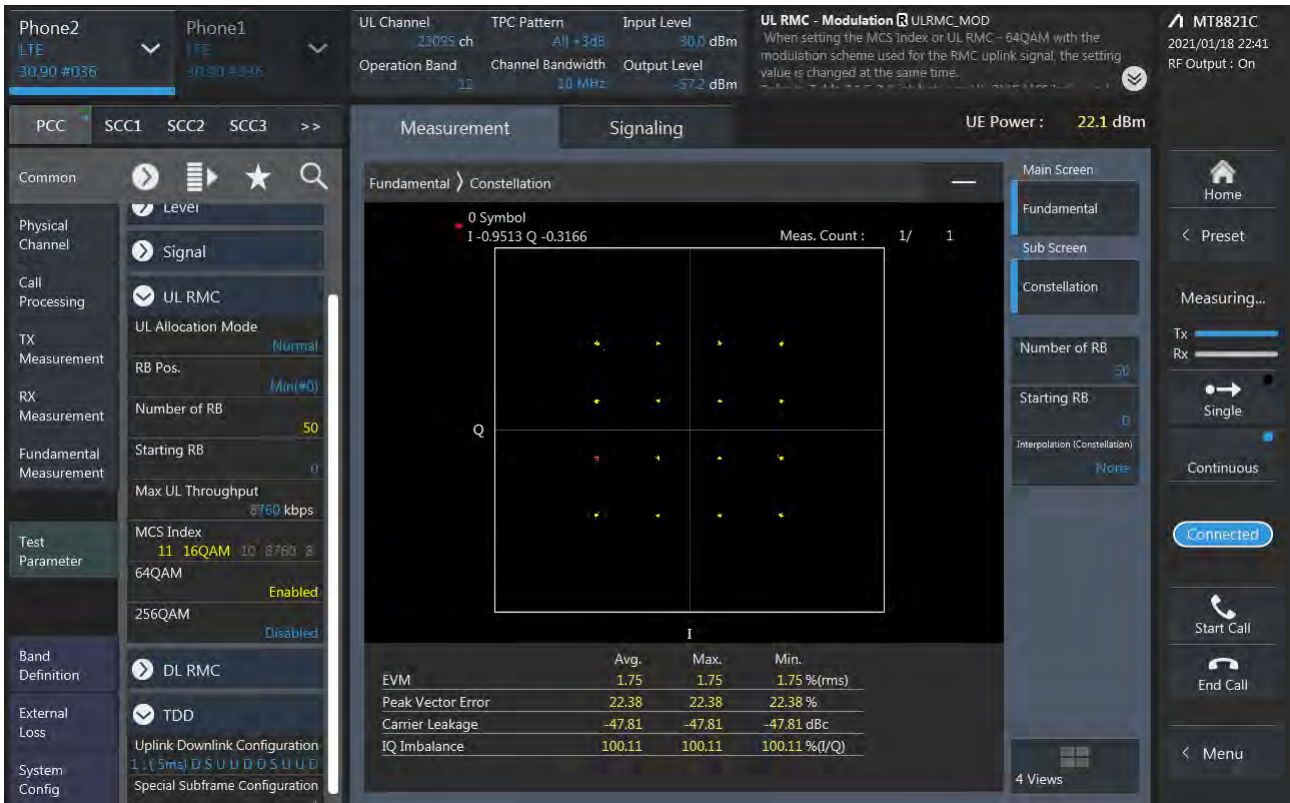
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.094	1.293	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.296	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.296	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.284	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.094	1.287	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.284	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.982	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	3.000	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	3.000	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	2.970	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.691	2.976	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.970	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.920	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.950	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.930	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.940	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.930	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.960	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.911	9.700	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.951	9.780	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.760	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.911	9.760	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.951	9.760	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.760	PASS



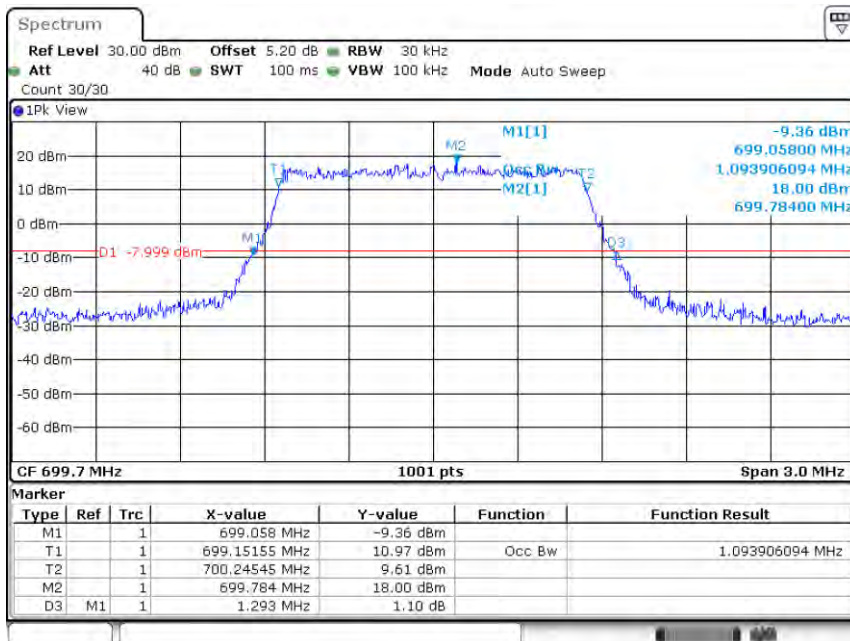
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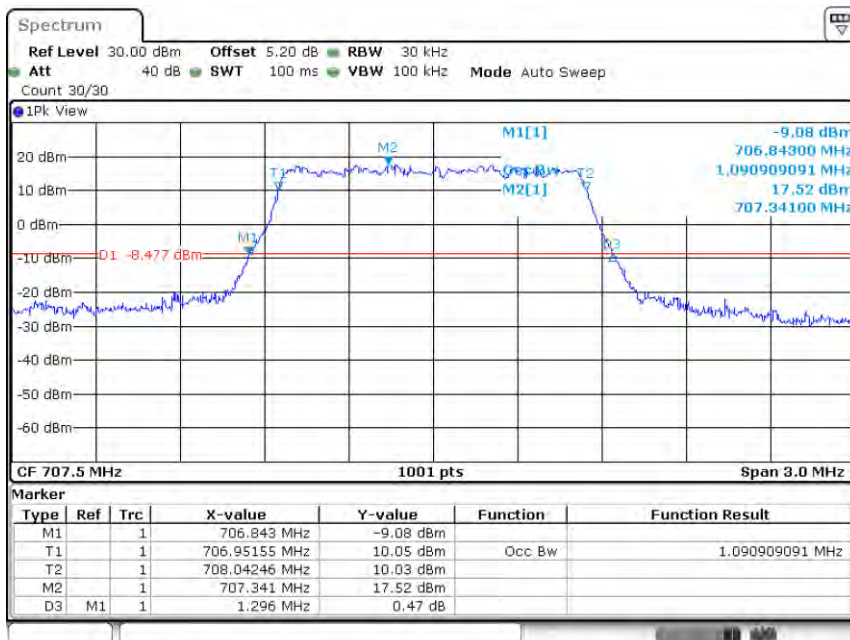
4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.094



Date: 29 JAN 2021 14:17:26

Band12-1.4MHz-QPSK-23095-6RB#0-1.091

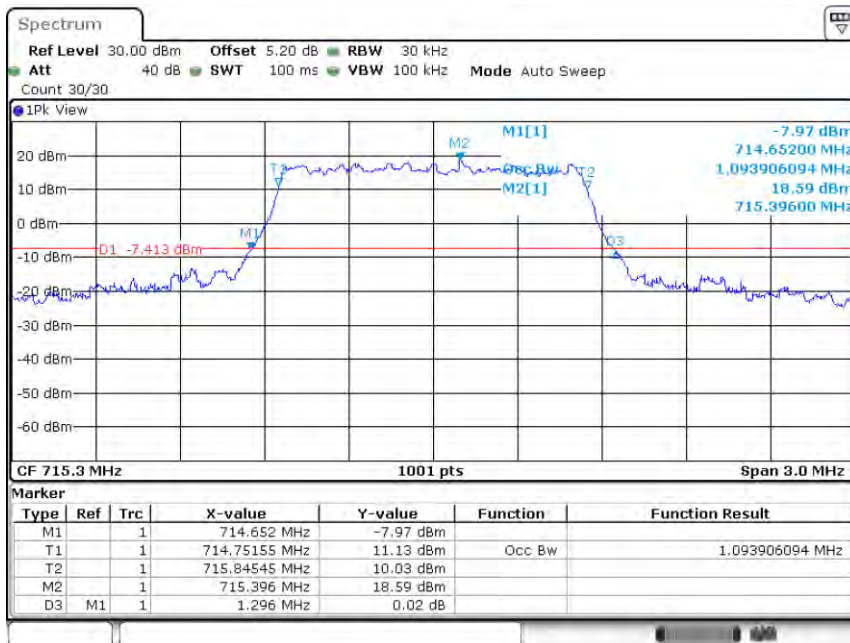


Date: 29 JAN 2021 14:17:53



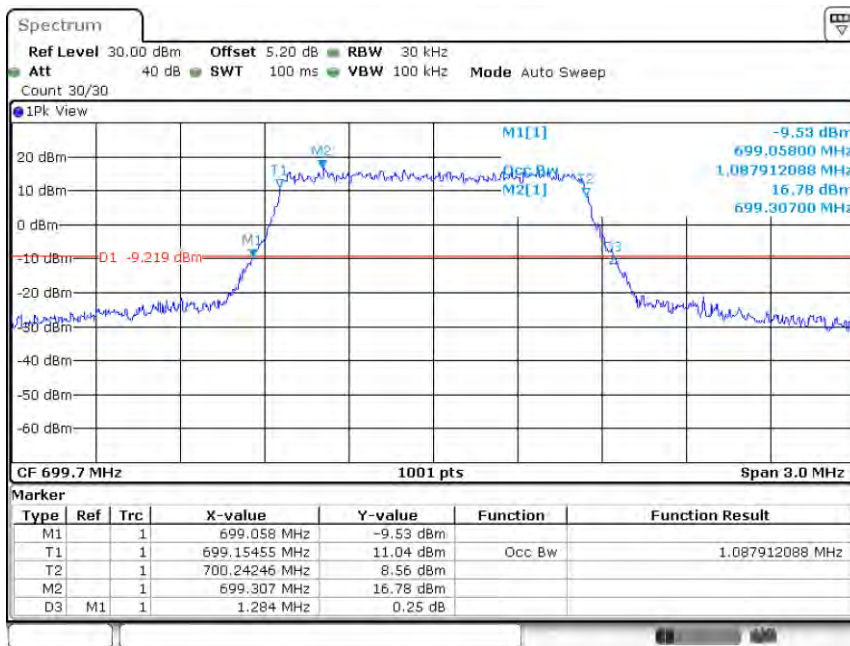
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Band12-1.4MHz-QPSK-23173-6RB#0-1.094



Date: 29 JAN 2021 14:18:18

Band12-1.4MHz-16QAM-23017-6RB#0-1.088



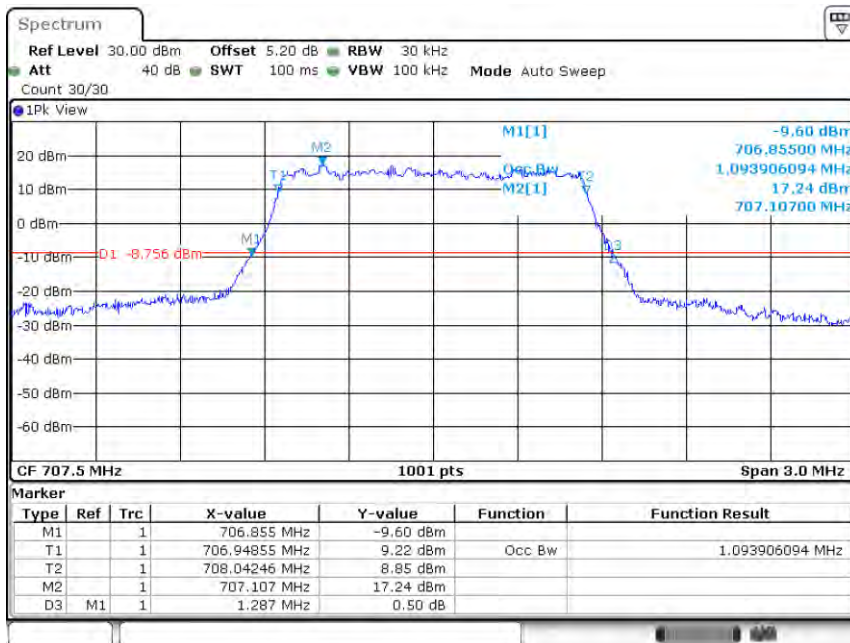
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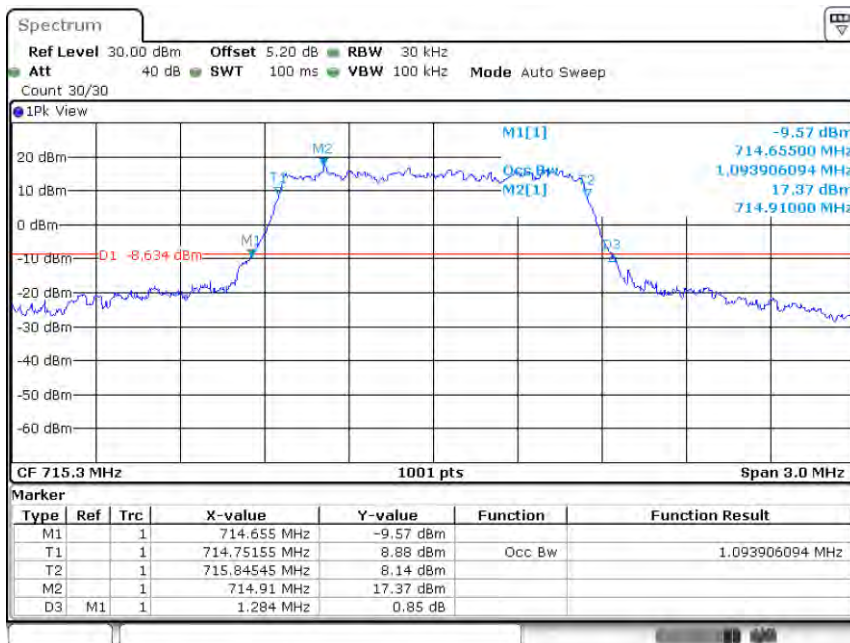


Band12-1.4MHz-16QAM-23095-6RB#0-1.094



Date: 29 JAN 2021 14:18:05

Band12-1.4MHz-16QAM-23173-6RB#0-1.094



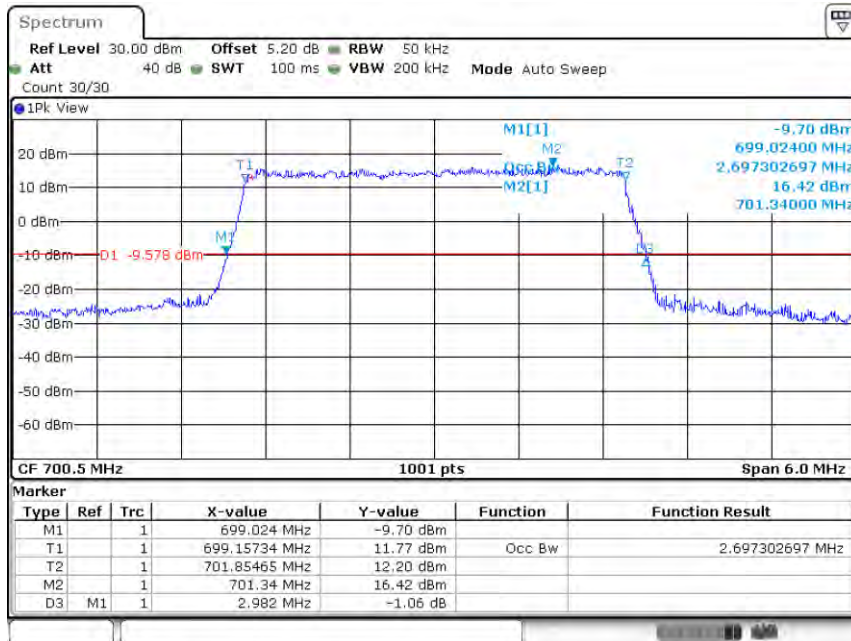
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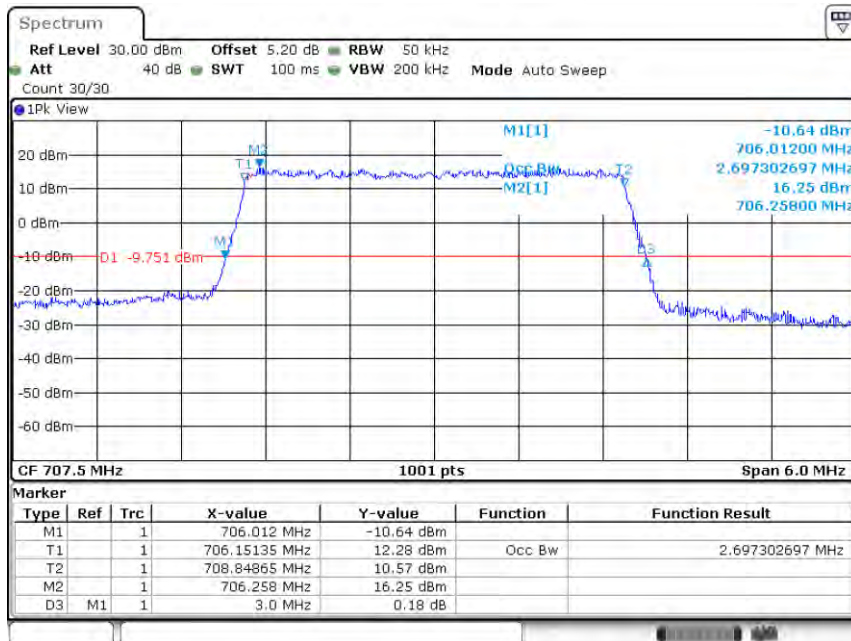


Band12-3MHz-QPSK-23025-15RB#0-2.697



Date: 29 JAN 2021 14:18:49

Band12-3MHz-QPSK-23095-15RB#0-2.697



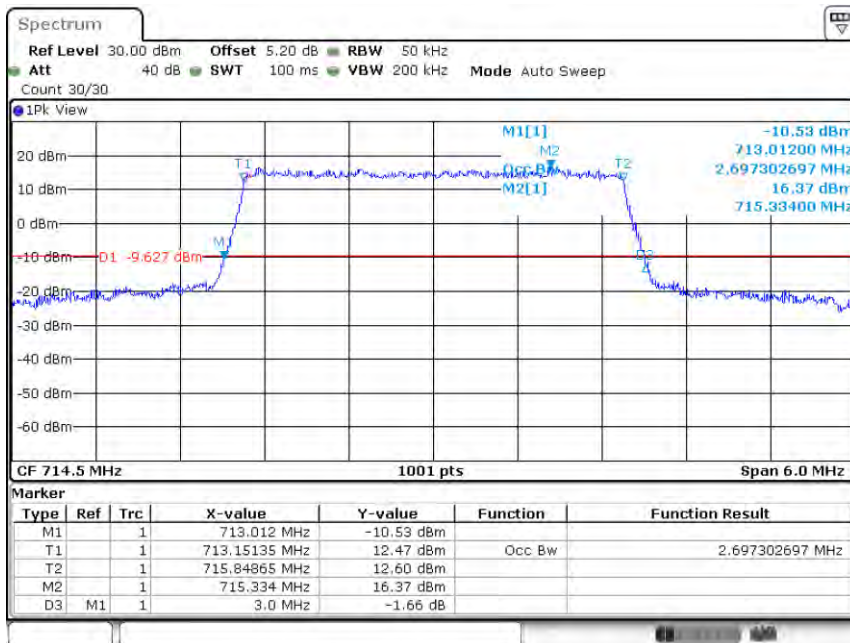
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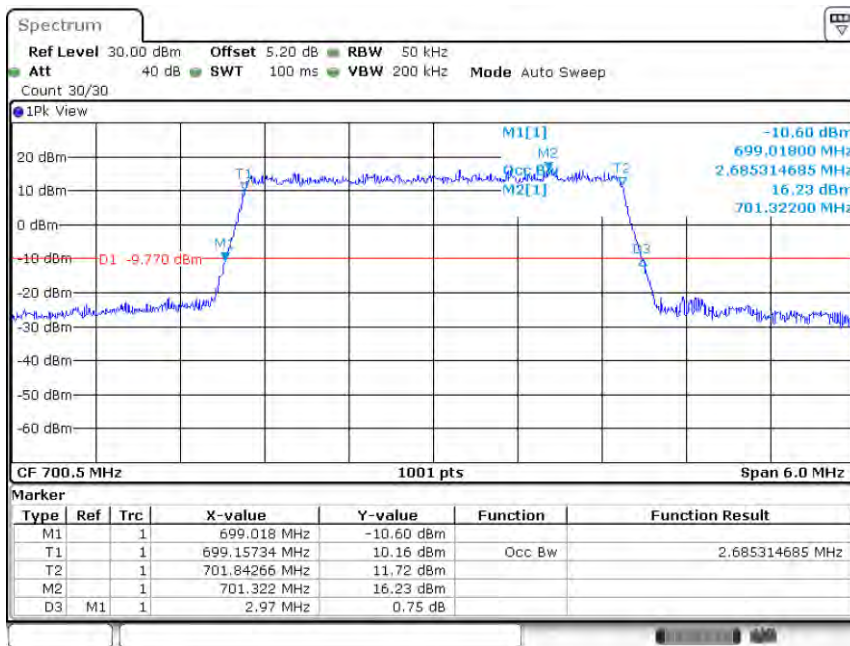


Band12-3MHz-QPSK-23165-15RB#0-2.697



Date: 29 JAN 2021 14:19:41

Band12-3MHz-16QAM-23025-15RB#0-2.685

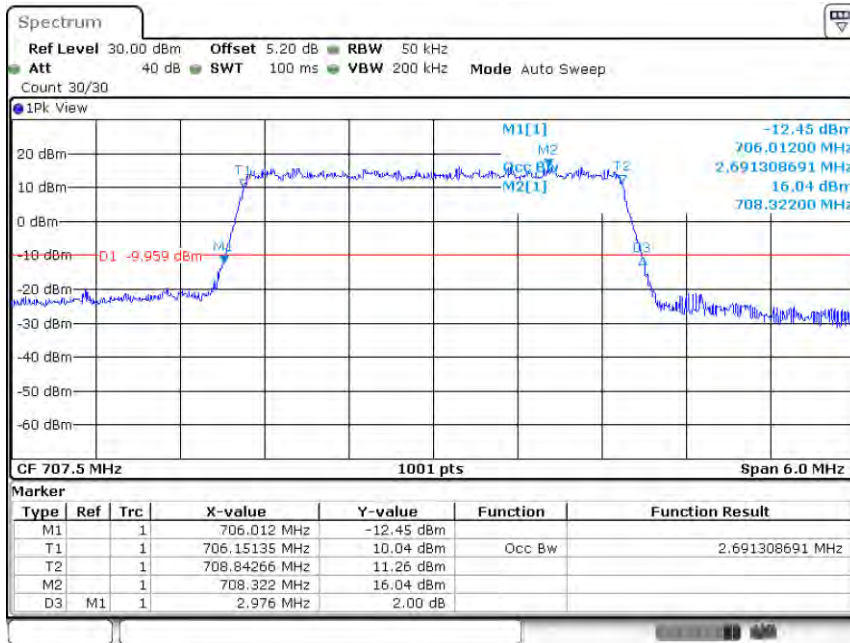


Date: 29 JAN 2021 14:19:02



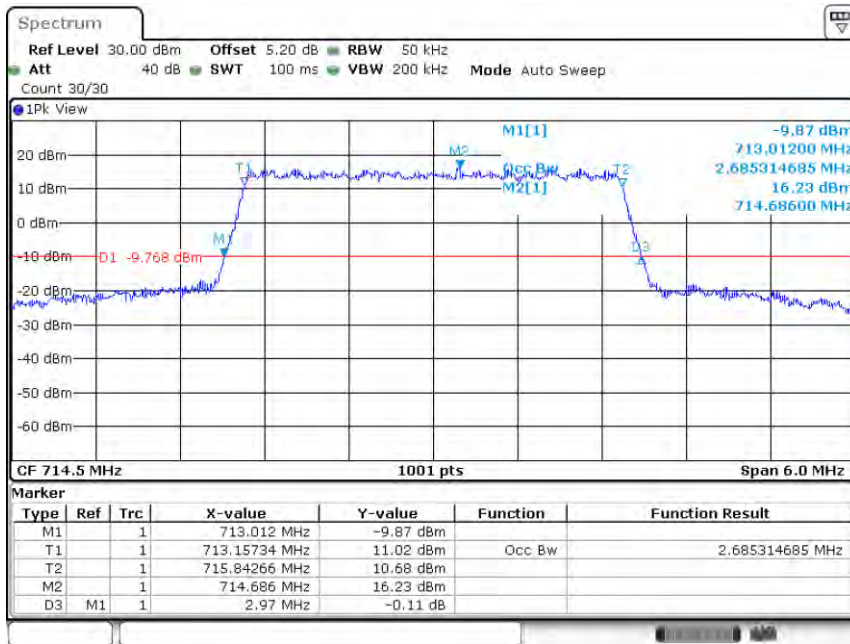
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Band12-3MHz-16QAM-23095-15RB#0-2.691



Date: 29 JAN 2021 14:19:27

Band12-3MHz-16QAM-23165-15RB#0-2.685



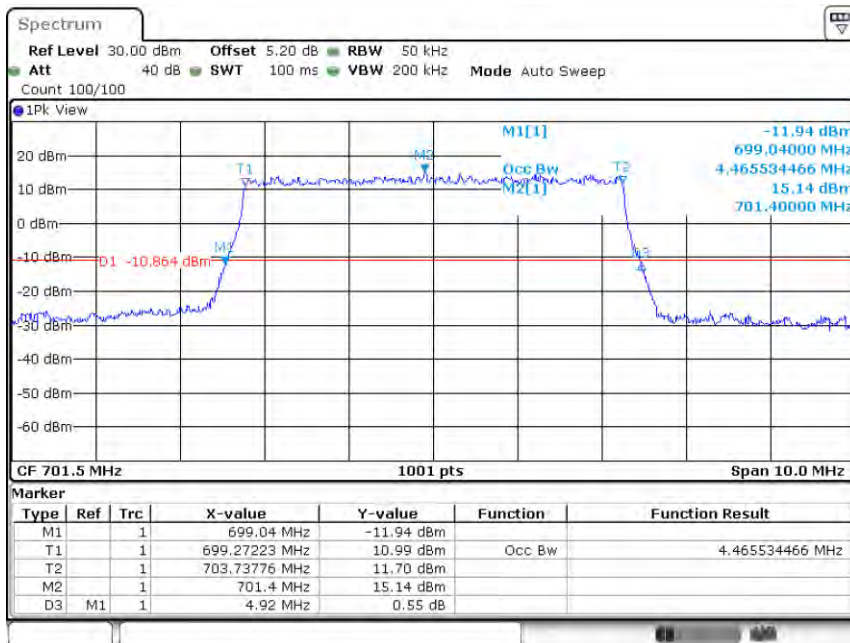
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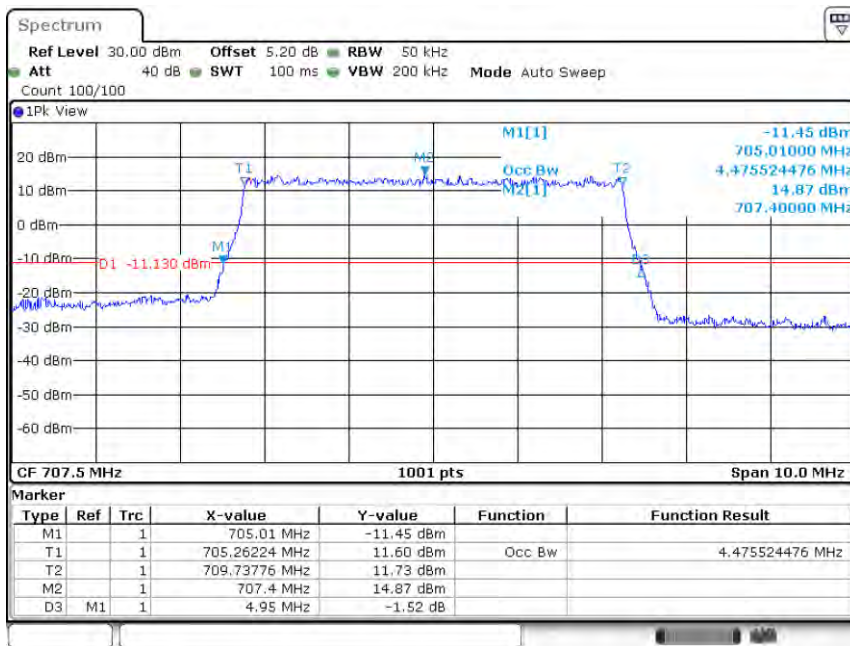


Band12-5MHz-QPSK-23035-25RB#0-4.466



Date: 29 JAN 2021 14:20:18

Band12-5MHz-QPSK-23095-25RB#0-4.476



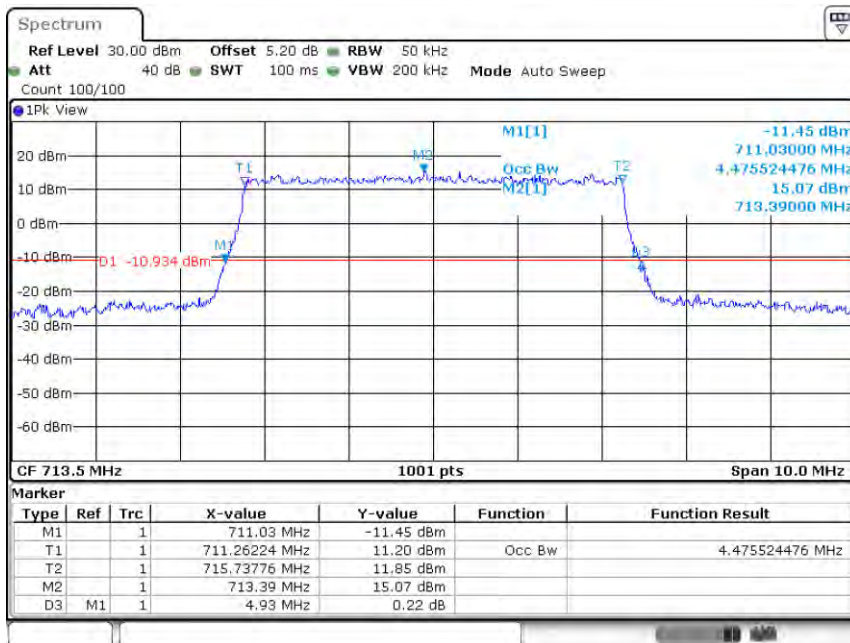
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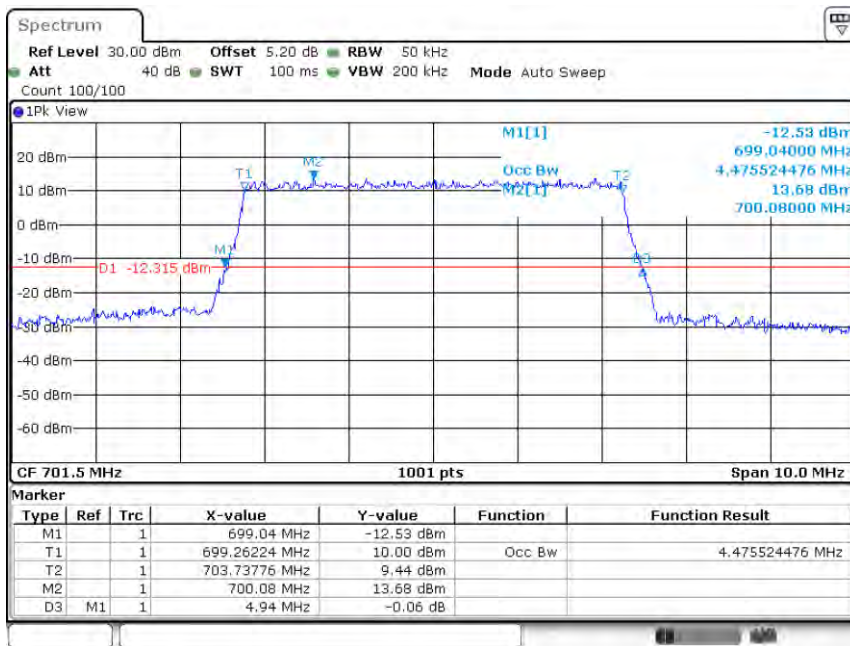


Band12-5MHz-QPSK-23155-25RB#0-4.476



Date: 29 JAN 2021 14:21:38

Band12-5MHz-16QAM-23035-25RB#0-4.476



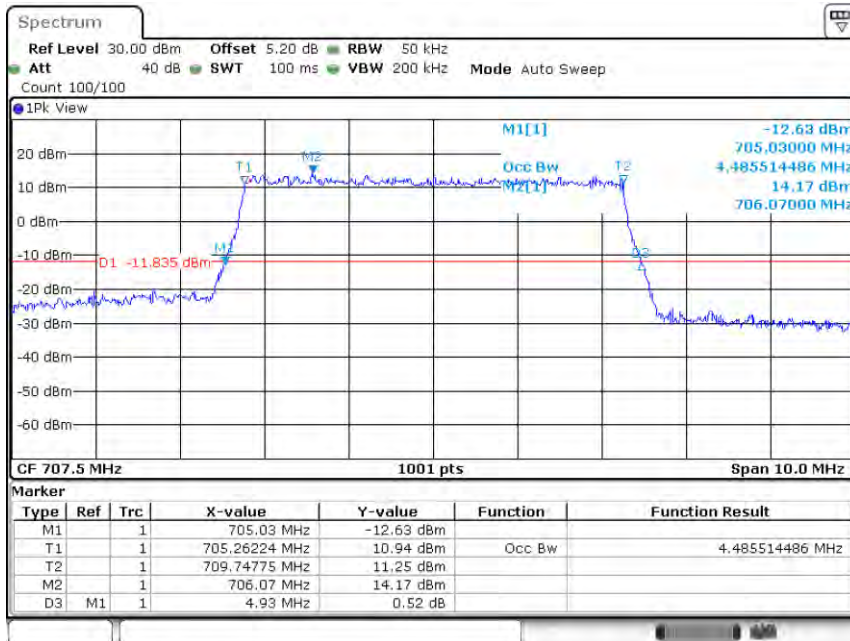
Date: 29 JAN 2021 14:20:38



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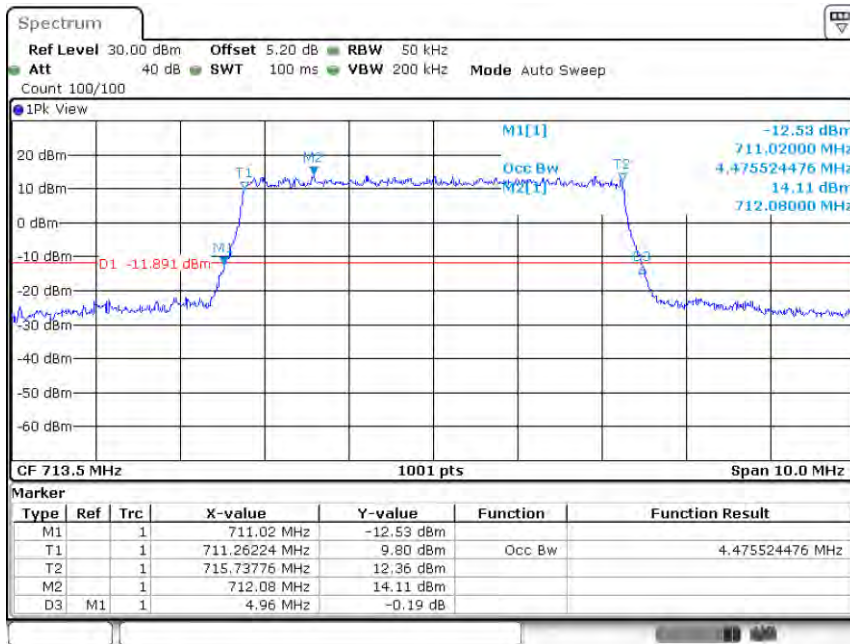


Band12-5MHz-16QAM-23095-25RB#0-4.486



Date: 29 JAN 2021 14:21:18

Band12-5MHz-16QAM-23155-25RB#0-4.476

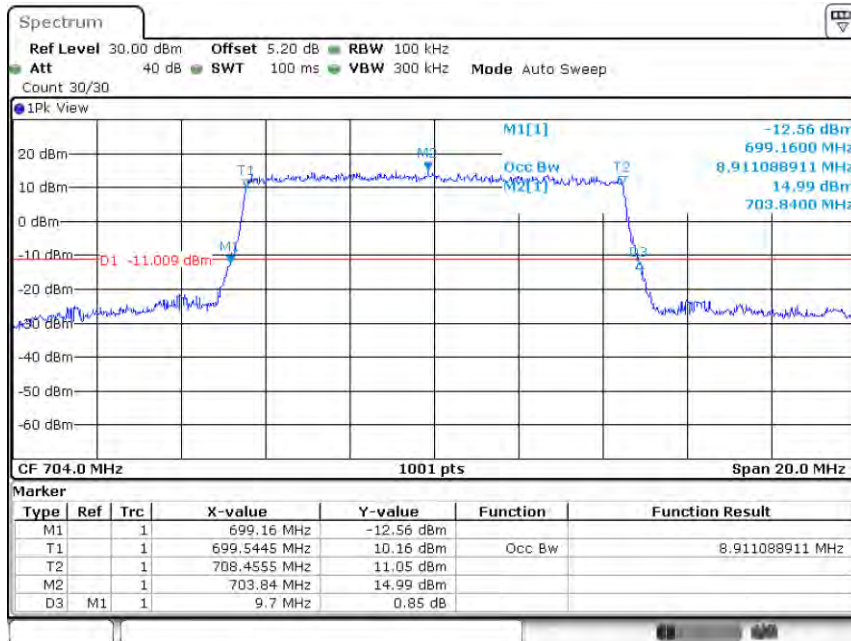


Date: 29 JAN 2021 14:21:57



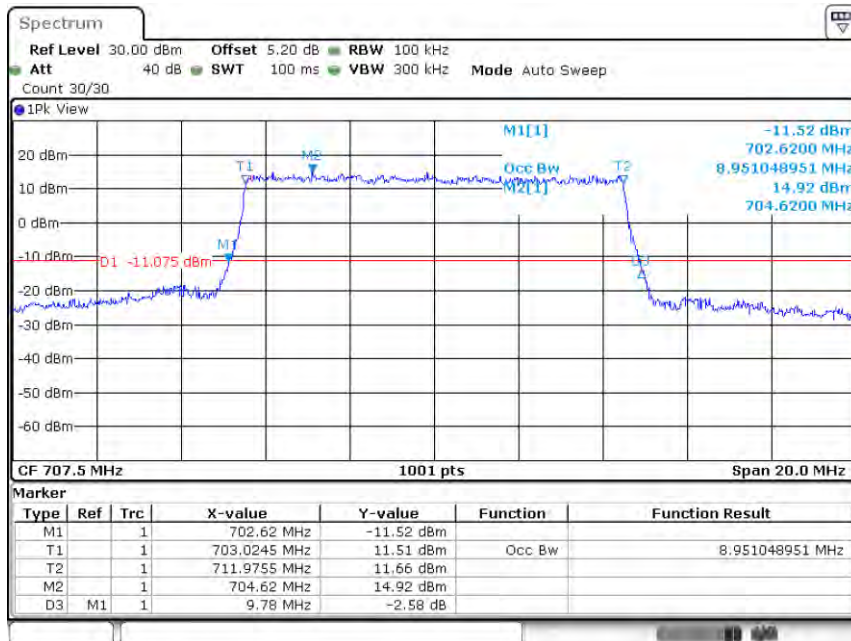
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Band12-10MHz-QPSK-23060-50RB#0-8.911



Date: 29 JAN 2021 14:22:15

Band12-10MHz-QPSK-23095-50RB#0-8.951



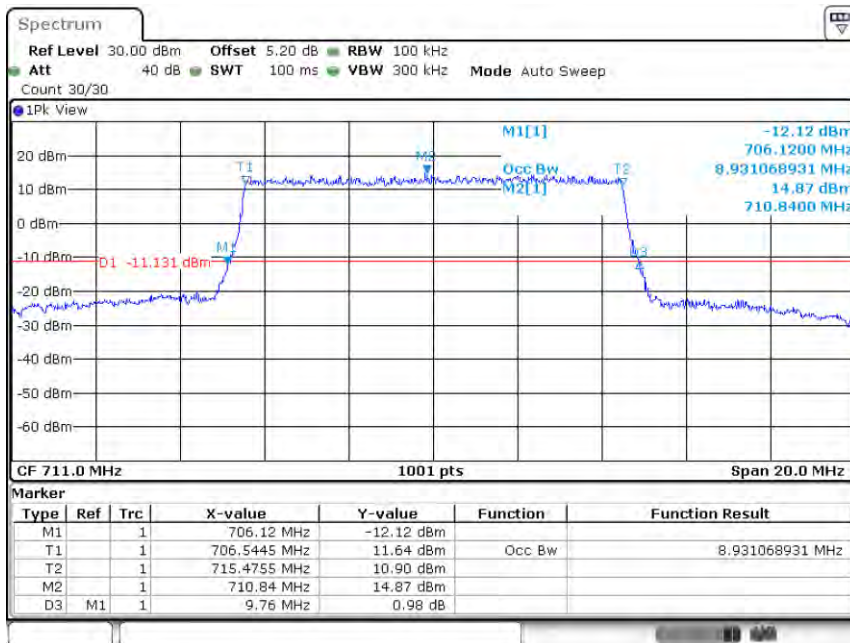
Date: 29 JAN 2021 14:22:42



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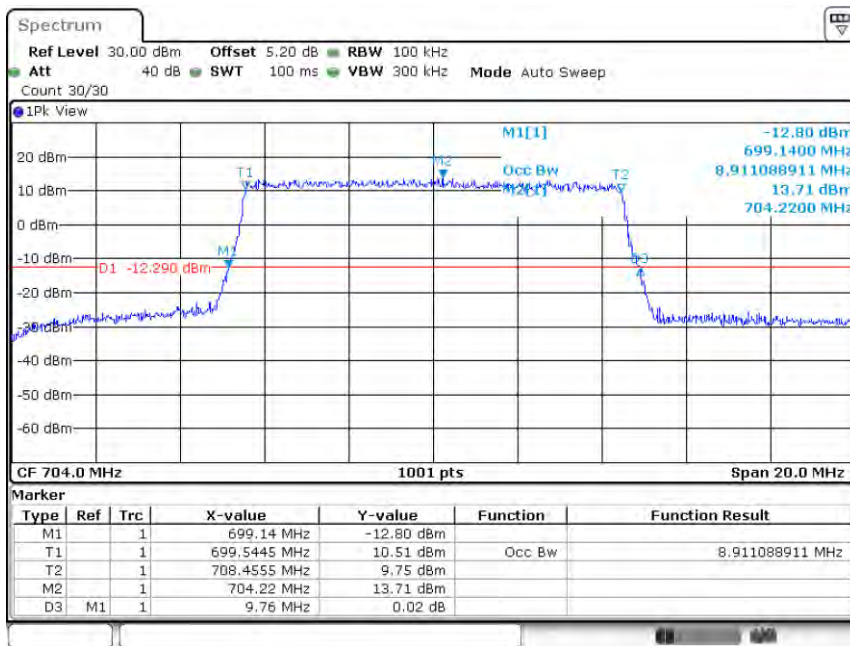


Band12-10MHz-QPSK-23130-50RB#0-8.931



Date: 29 JAN 2021 14:23:09

Band12-10MHz-16QAM-23060-50RB#0-8.911



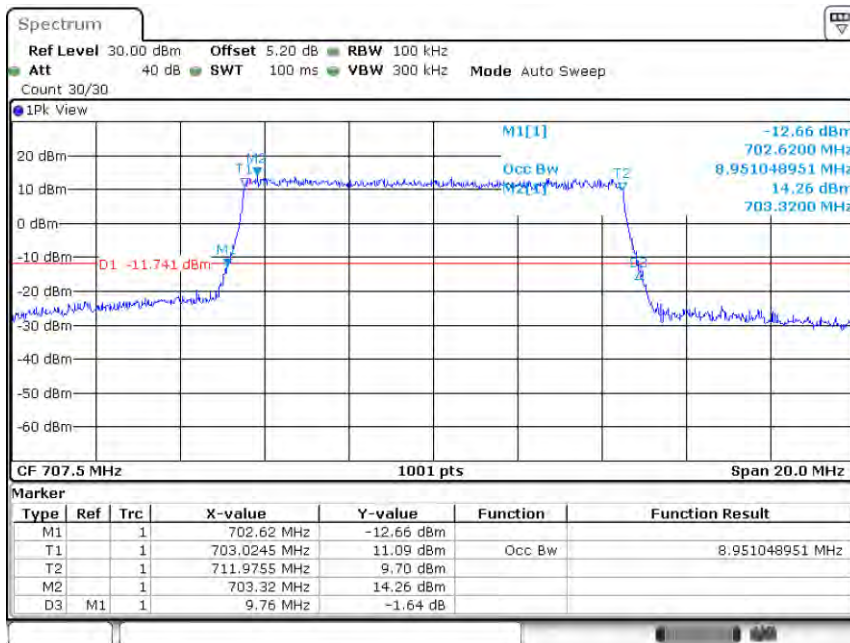
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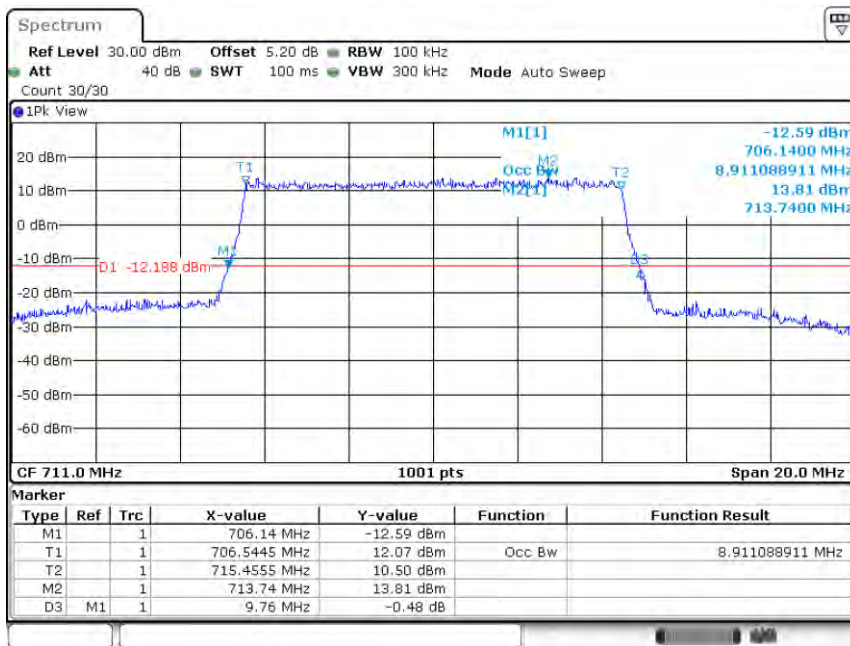


Band12-10MHz-16QAM-23095-50RB#0-8.951



Date: 29 JAN 2021 14:22:55

Band12-10MHz-16QAM-23130-50RB#0-8.911



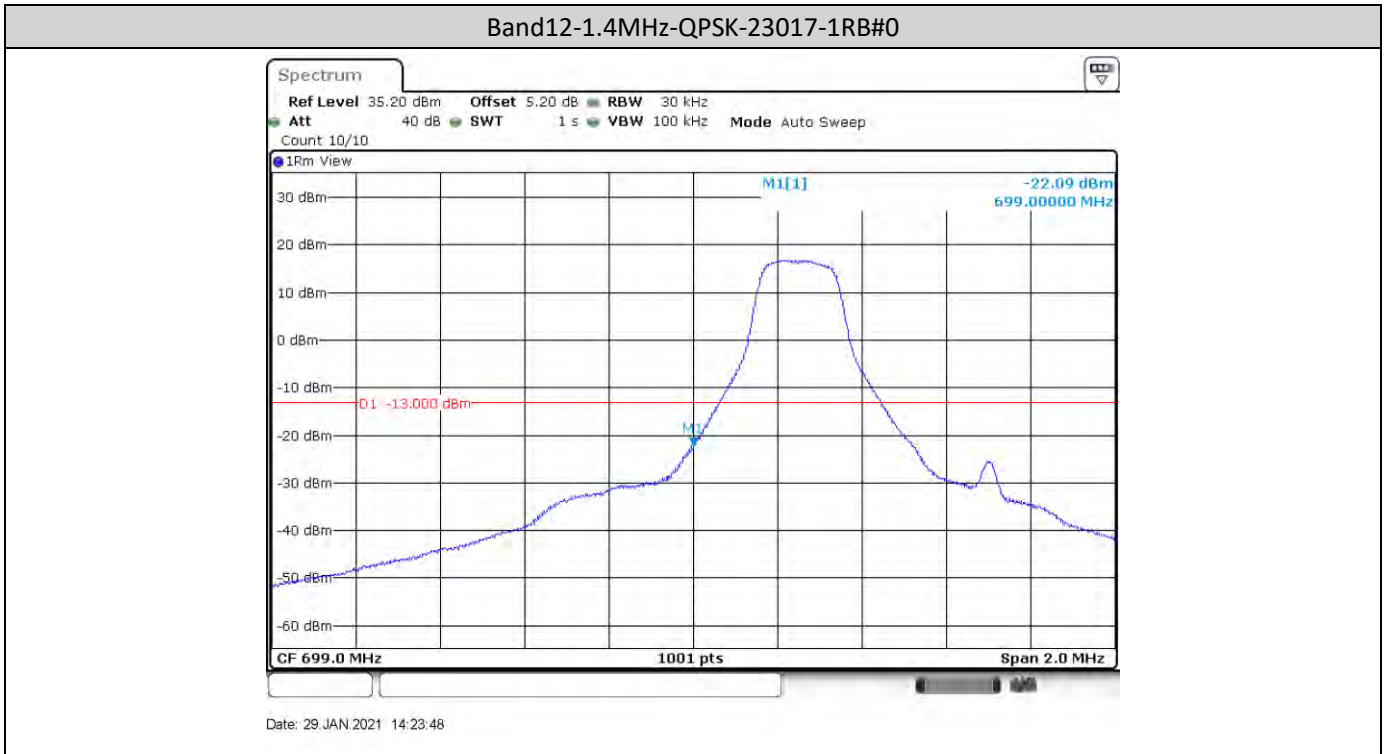
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5. Band Edge Compliance

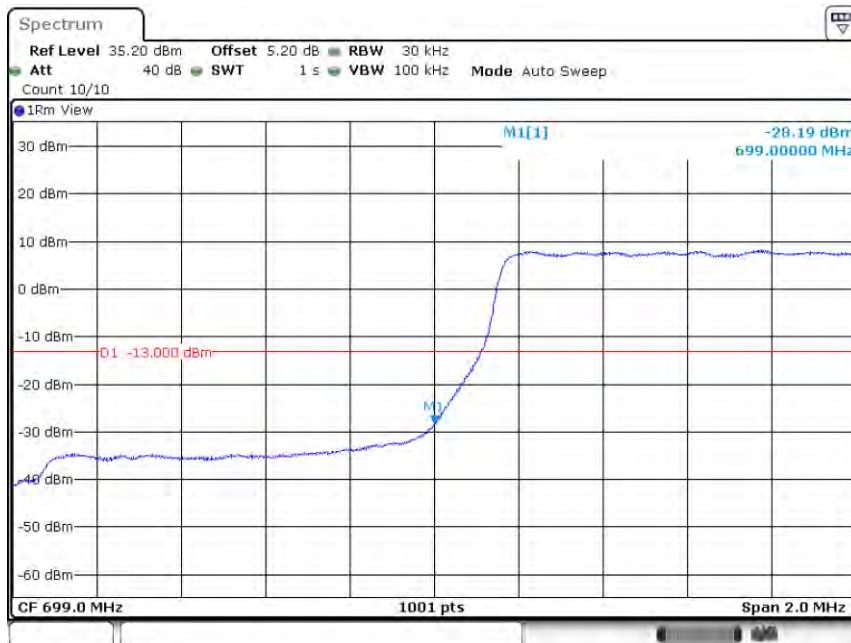
5.1. Test Plots



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Band12-1.4MHz-QPSK-23017-6RB#0



Date: 29 JAN 2021 14:24:30

Band12-1.4MHz-QPSK-23173-1RB#5



Date: 29 JAN 2021 14:25:15



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Band12-1.4MHz-QPSK-23173-6RB#0



Date: 29 JAN 2021 14:25:56

Band12-1.4MHz-16QAM-23017-1RB#0



Date: 29 JAN 2021 14:24:09



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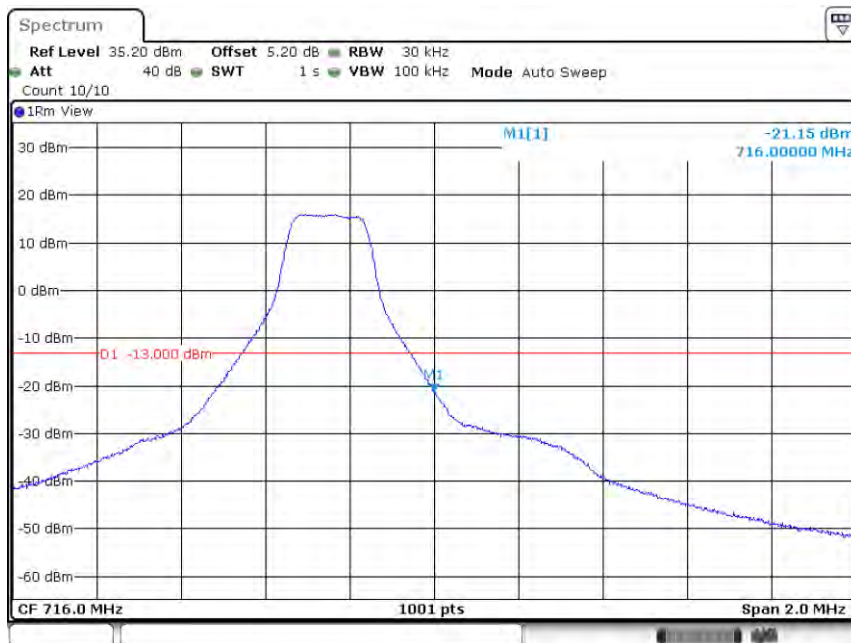
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Band12-1.4MHz-16QAM-23017-6RB#0



Date: 29 JAN 2021 14:24:50

Band12-1.4MHz-16QAM-23173-1RB#5



Date: 29 JAN 2021 14:25:36



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Band12-1.4MHz-16QAM-23173-6RB#0



Date: 29 JAN 2021 14:26:17

Band12-3MHz-QPSK-23025-1RB#0



Date: 29 JAN 2021 14:26:42



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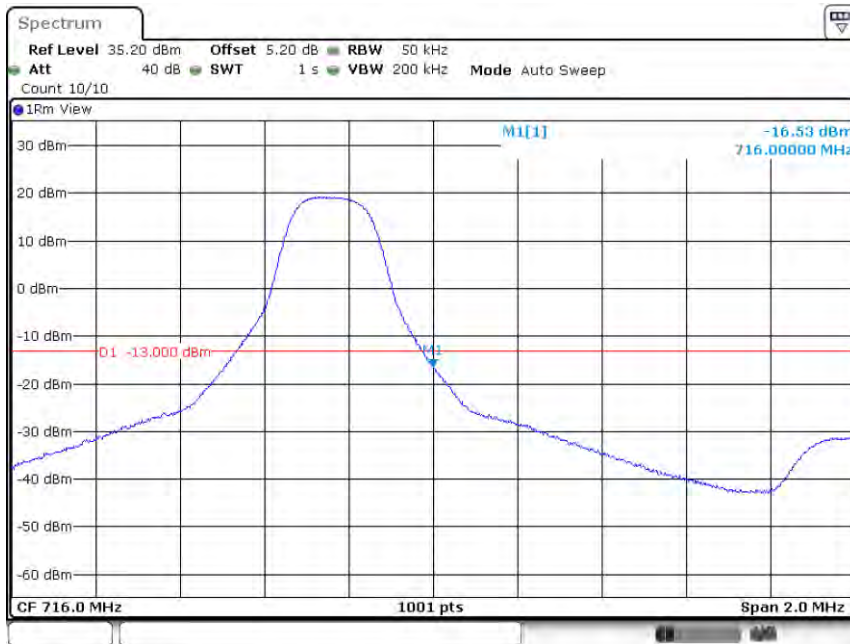
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Band12-3MHz-QPSK-23025-15RB#0



Date: 29 JAN 2021 14:27:24

Band12-3MHz-QPSK-23165-1RB#14



Date: 29 JAN 2021 14:28:09



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Band12-3MHz-QPSK-23165-15RB#0



Date: 29 JAN 2021 14:28:50

Band12-3MHz-16QAM-23025-1RB#0



Date: 29 JAN 2021 14:27:03



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Band12-3MHz-16QAM-23025-15RB#0



Date: 29 JAN 2021 14:27:44

Band12-3MHz-16QAM-23165-1RB#14



Date: 29 JAN 2021 14:28:30



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Band12-3MHz-16QAM-23165-15RB#0



Date: 29 JAN 2021 14:29:11

Band12-5MHz-QPSK-23035-1RB#0



Date: 29 JAN 2021 14:29:36



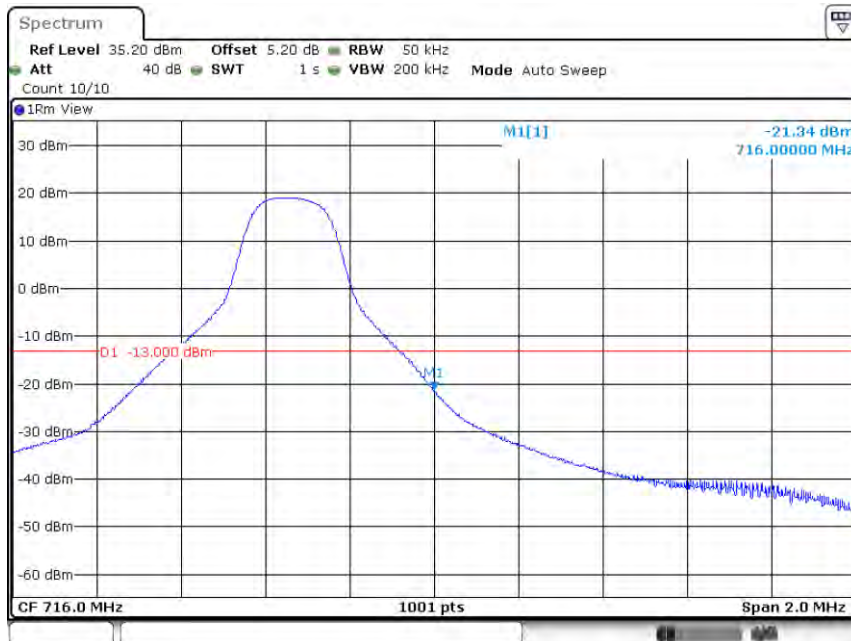
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Band12-5MHz-QPSK-23035-25RB#0



Date: 29 JAN 2021 14:30:18

Band12-5MHz-QPSK-23155-1RB#24



Date: 29 JAN 2021 14:31:03



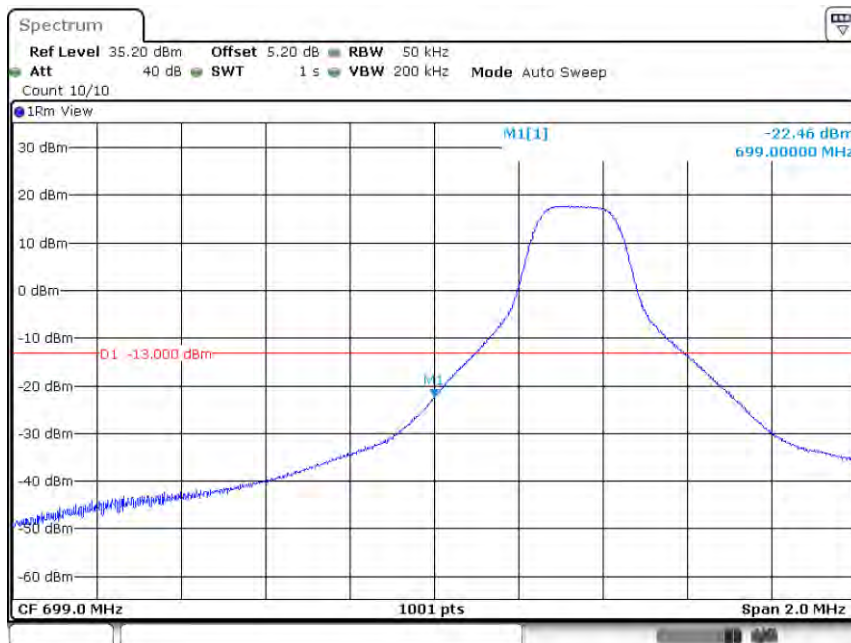
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Band12-5MHz-QPSK-23155-25RB#0



Date: 29 JAN 2021 14:31:44

Band12-5MHz-16QAM-23035-1RB#0



Date: 29 JAN 2021 14:29:57



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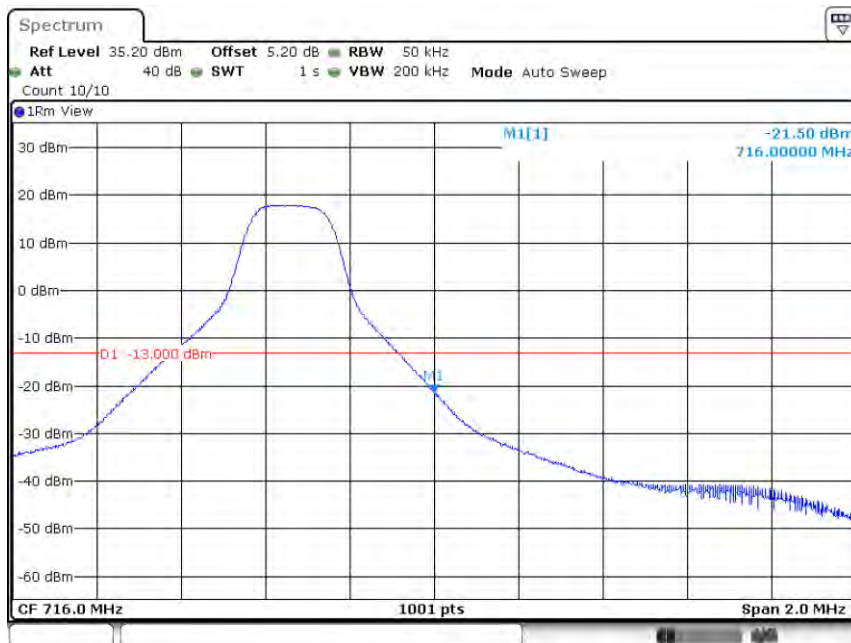


Band12-5MHz-16QAM-23035-25RB#0



Date: 29 JAN 2021 14:30:38

Band12-5MHz-16QAM-23155-1RB#24



Date: 29 JAN 2021 14:31:24



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Band12-5MHz-16QAM-23155-25RB#0



Date: 29 JAN 2021 14:32:05

Band12-10MHz-QPSK-23060-1RB#0

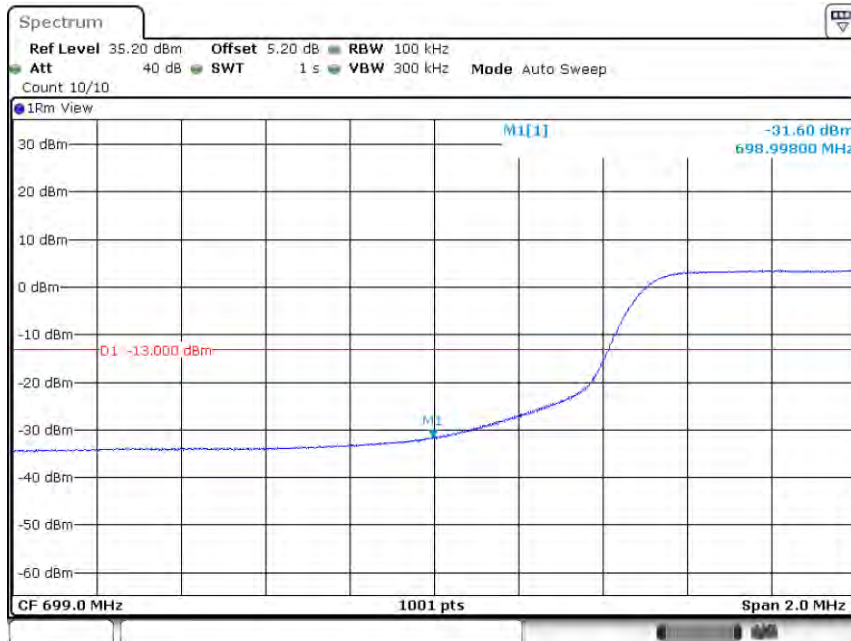


Date: 29 JAN 2021 14:32:31



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Band12-10MHz-QPSK-23060-50RB#0



Date: 29 JAN 2021 14:33:12

Band12-10MHz-QPSK-23130-1RB#49



Date: 29 JAN 2021 14:33:58



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Band12-10MHz-QPSK-23130-50RB#0



Date: 29 JAN 2021 14:34:39

Band12-10MHz-16QAM-23060-1RB#0



Date: 29 JAN 2021 14:32:51



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Band12-10MHz-16QAM-23060-50RB#0



Date: 29 JAN 2021 14:33:33

Band12-10MHz-16QAM-23130-1RB#49



Date: 29 JAN 2021 14:34:18



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Band12-10MHz-16QAM-23130-50RB#0



Date: 29 JAN 2021 14:34:59



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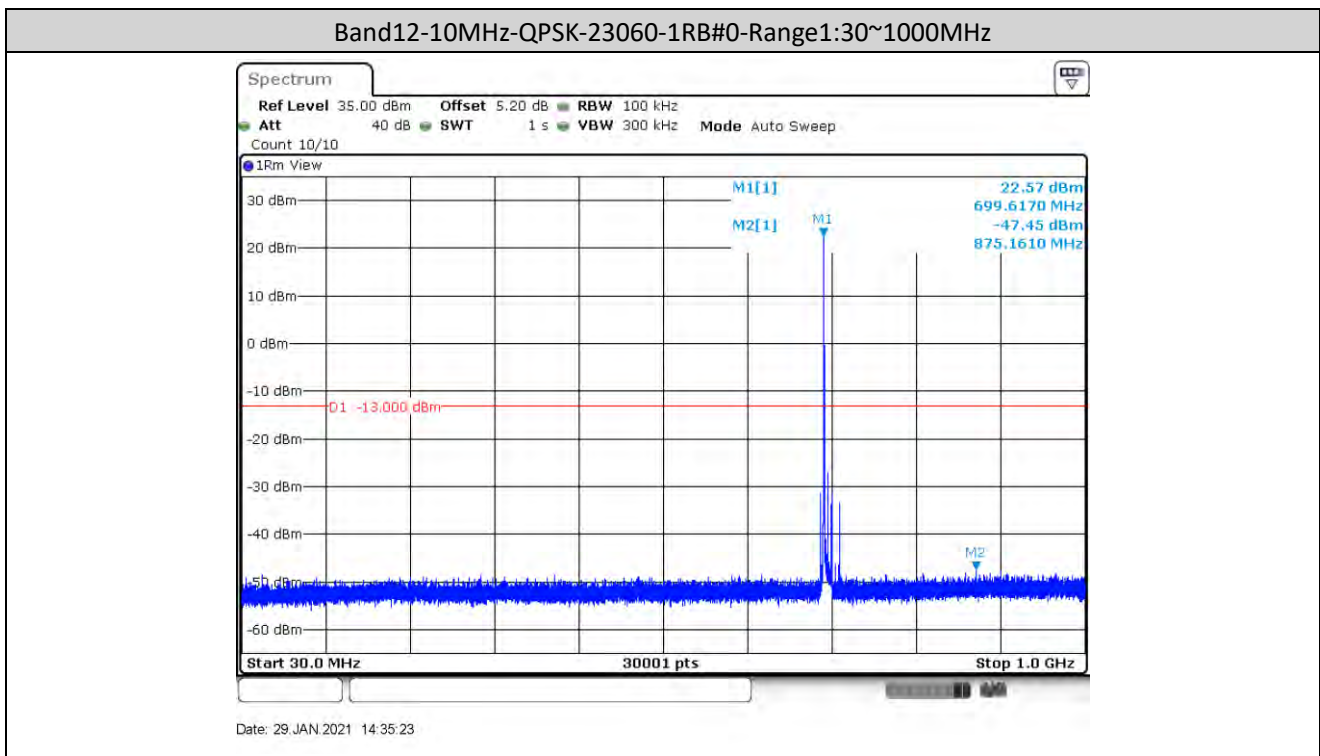
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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.

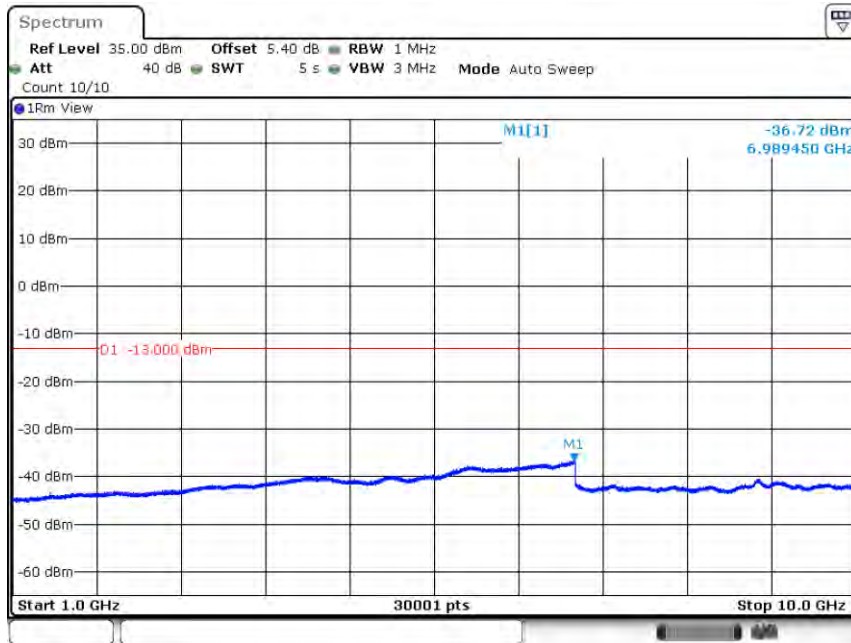
6.1. Test Plots



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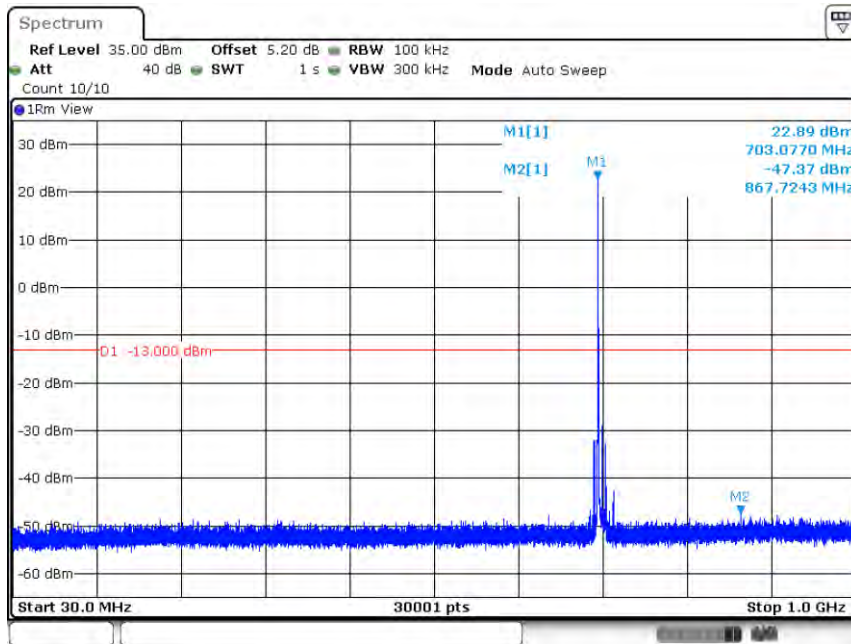
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Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:36:30

Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz

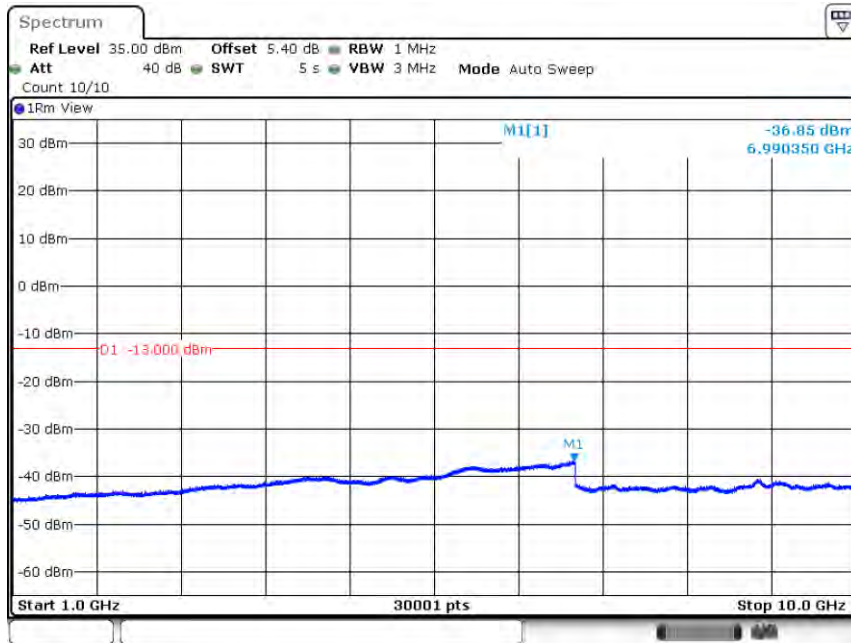


Date: 29 JAN 2021 14:38:17



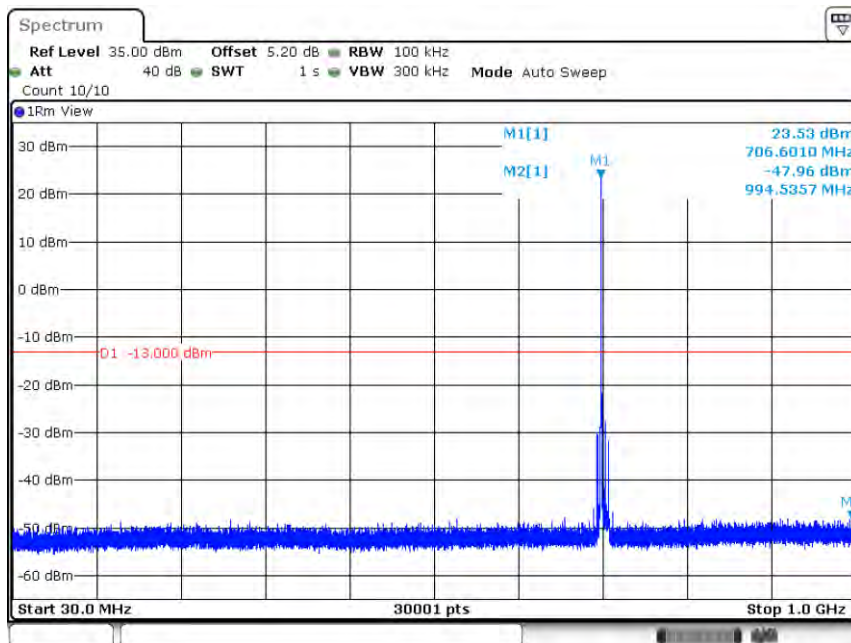
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Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:39:25

Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz

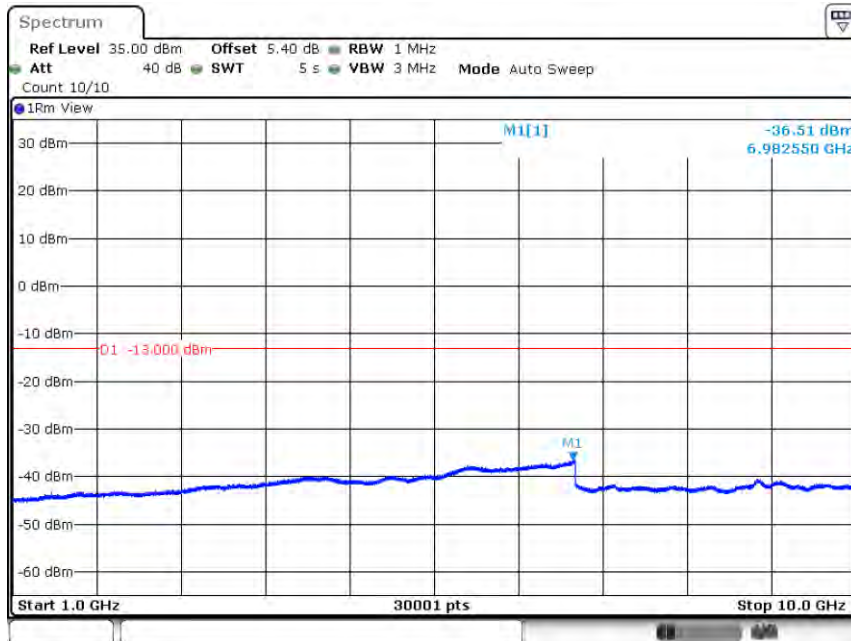


Date: 29 JAN 2021 14:41:12



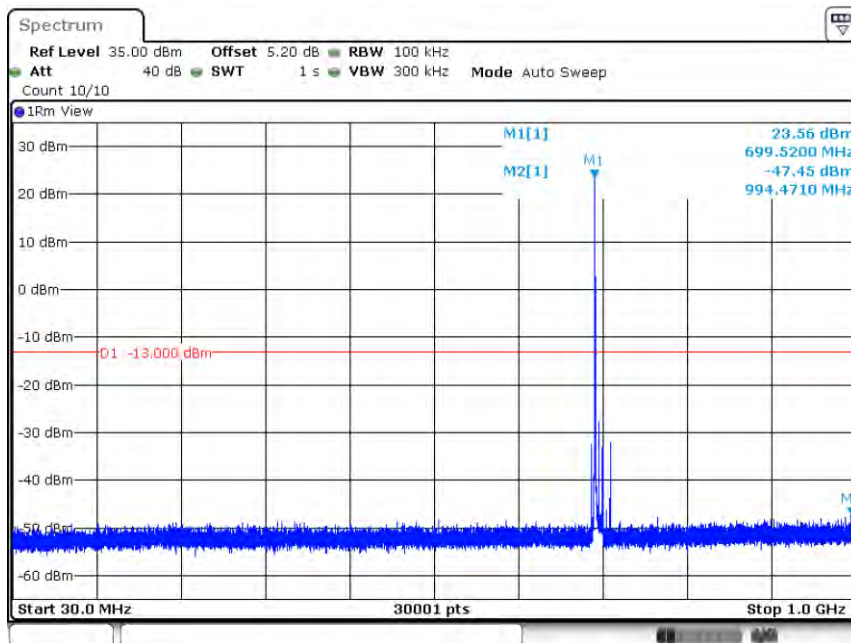
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Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:42:19

Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



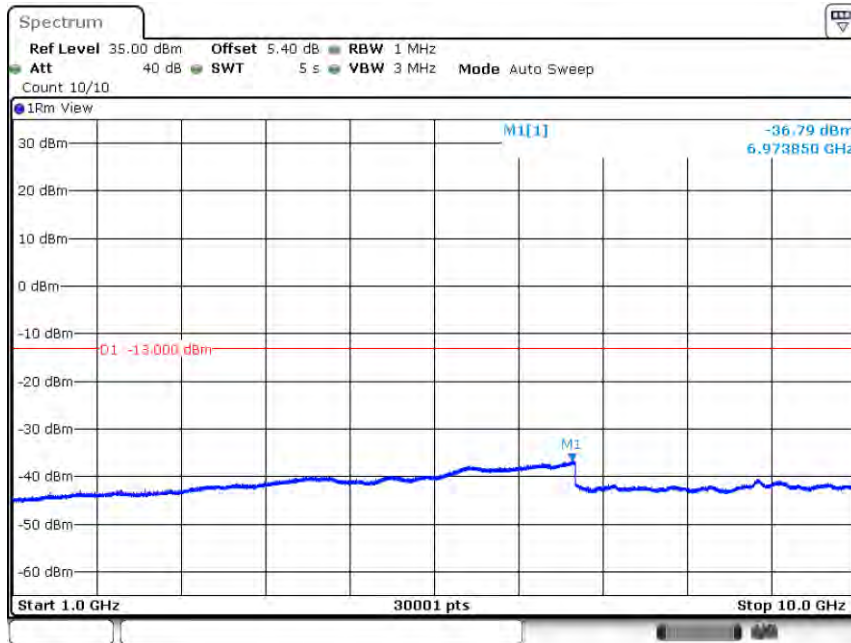
Date: 29 JAN 2021 14:36:50



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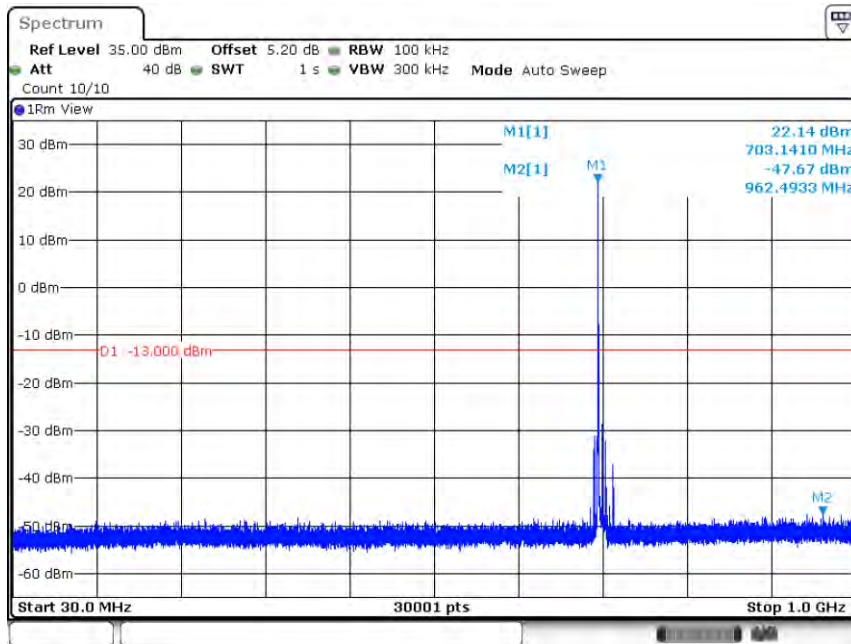
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Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:37:57

Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz

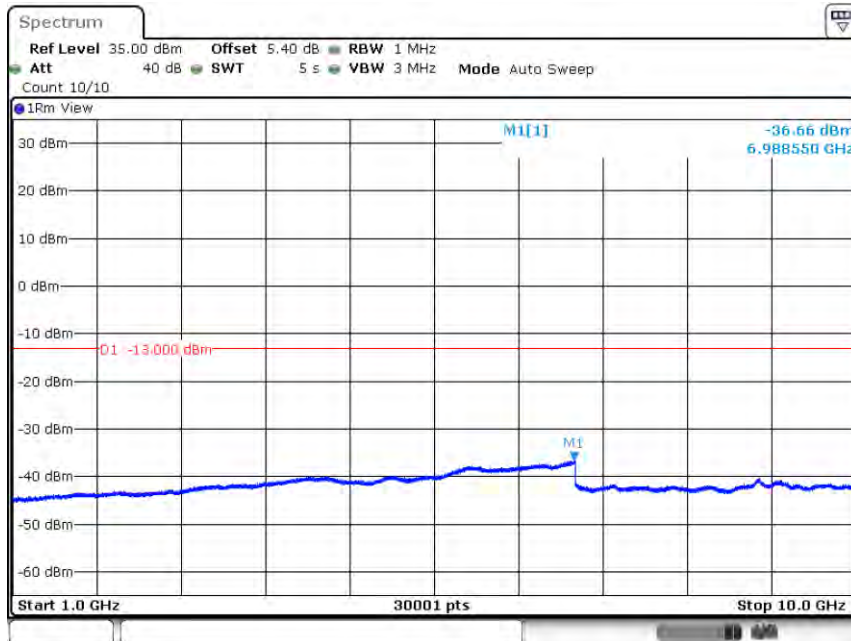


Date: 29 JAN 2021 14:39:44



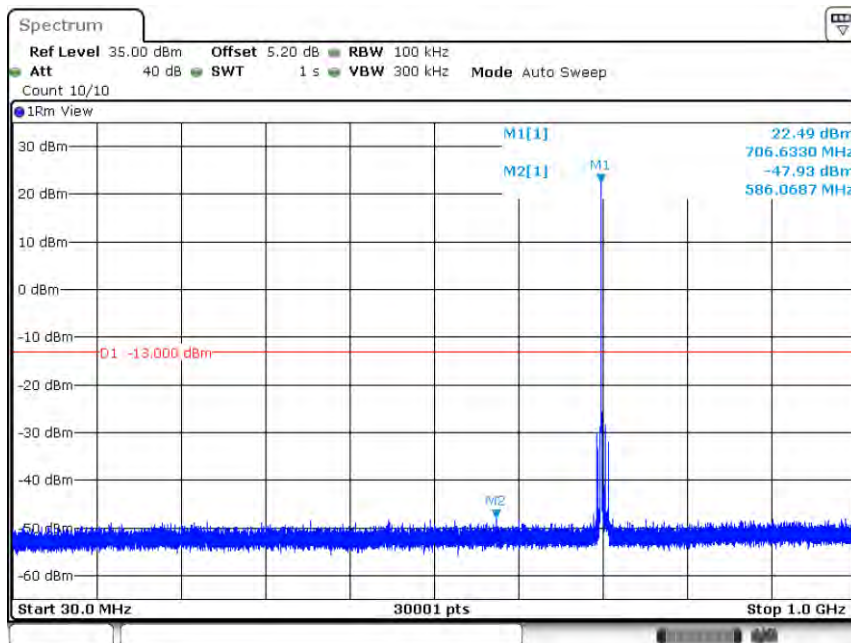
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Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:40:52

Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



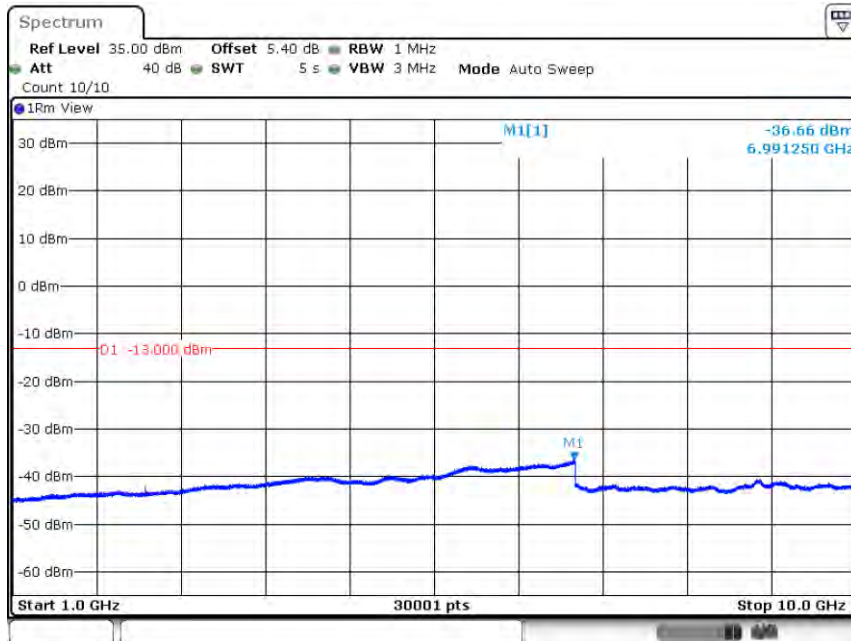
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Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



Date: 29 JAN 2021 14:43:46



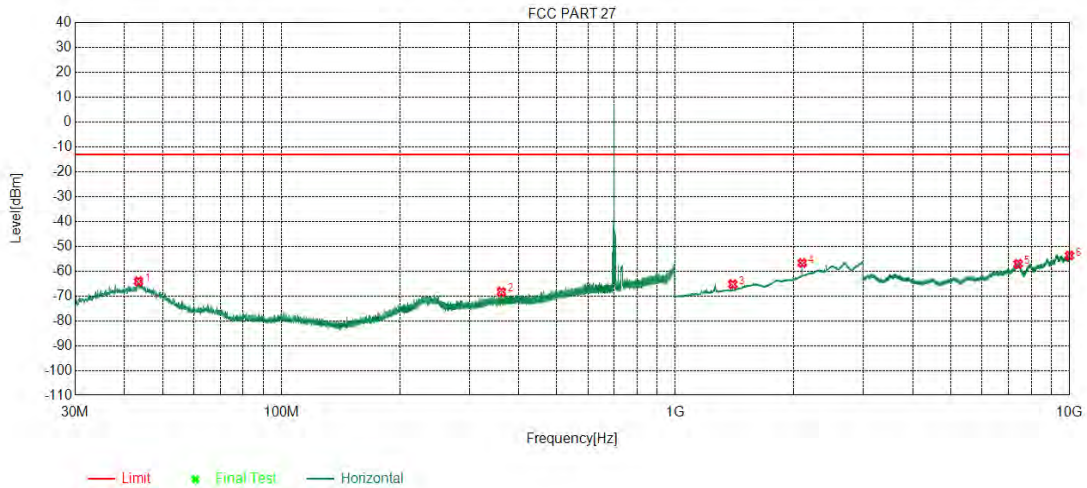
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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_12_TM1 DOWN ANT

7.1.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4352	-71.05	-64.11	-13.00	51.11	Horizontal
2	362.0476	-71.04	-68.39	-13.00	55.39	Horizontal
3	1399.2799	-67.42	-65.29	-13.00	52.29	Horizontal
4	2099.0198	-64.43	-56.68	-13.00	43.68	Horizontal
5	7406.8163	-57.01	-57.07	-13.00	44.07	Horizontal
6	9999.1600	-59.37	-53.79	-13.00	40.79	Horizontal



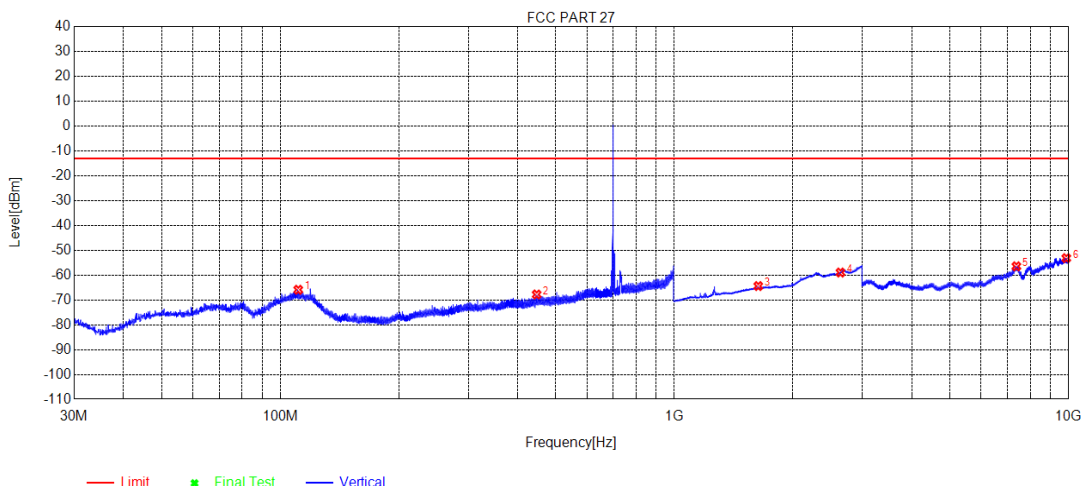
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7.2. Test Band = LTE_12_TM1 DOWN ANT
7.2.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.1446	-72.19	-65.88	-13.00	52.88	Vertical
2	447.4604	-71.75	-67.79	-13.00	54.79	Vertical
3	1632.9266	-69.01	-64.39	-13.00	51.39	Vertical
4	2639.1278	-69.48	-58.94	-13.00	45.94	Vertical
5	7376.0150	-56.98	-56.44	-13.00	43.44	Vertical
6	9872.8749	-59.56	-53.14	-13.00	40.14	Vertical

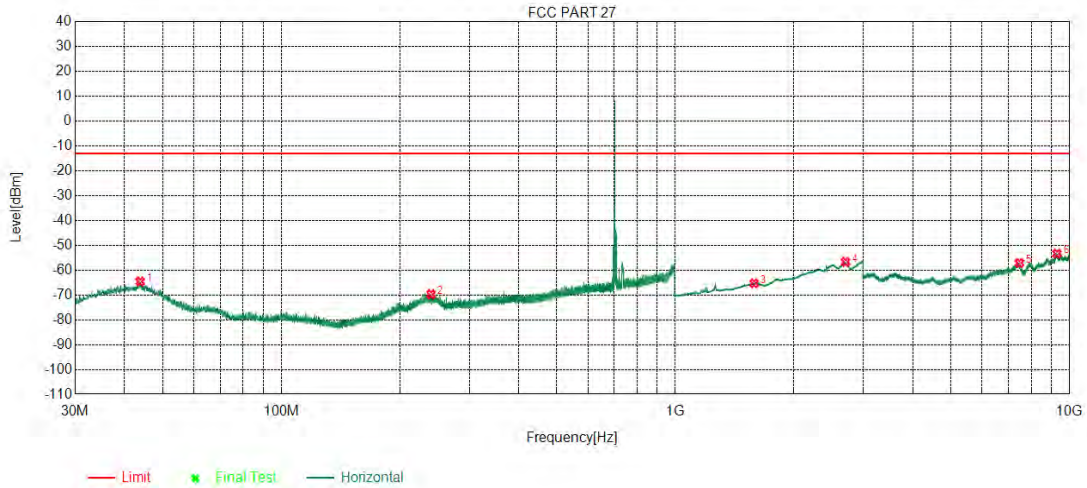


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7.3. Test Band = LTE_12_TM1 DOWN ANT

7.3.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8717	-71.53	-64.57	-13.00	51.57	Horizontal
2	240.1125	-72.49	-69.70	-13.00	56.70	Horizontal
3	1584.5169	-69.68	-65.30	-13.00	52.30	Horizontal
4	2703.5407	-69.55	-56.72	-13.00	43.72	Horizontal
5	7465.0586	-57.07	-57.09	-13.00	44.09	Horizontal
6	9294.9318	-59.20	-53.34	-13.00	40.34	Horizontal

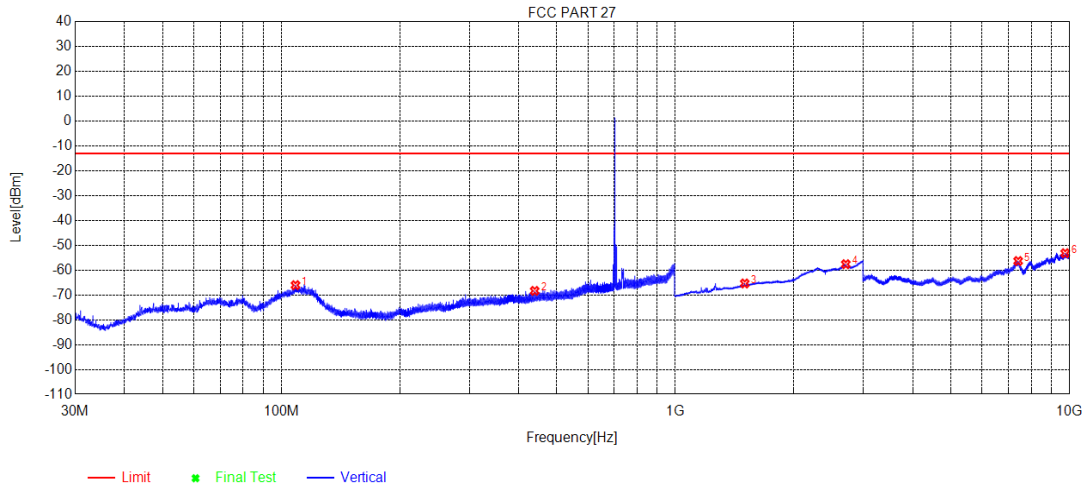


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7.4. Test Band = LTE_12_TM1 DOWN ANT

7.4.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	108.7194	-72.16	-66.05	-13.00	53.05	Vertical
2	439.6515	-72.08	-68.35	-13.00	55.35	Vertical
3	1500.1000	-68.97	-65.36	-13.00	52.36	Vertical
4	2706.7413	-69.21	-57.60	-13.00	44.60	Vertical
5	7409.6164	-56.83	-56.32	-13.00	43.32	Vertical
6	9751.3501	-59.53	-53.18	-13.00	40.18	Vertical

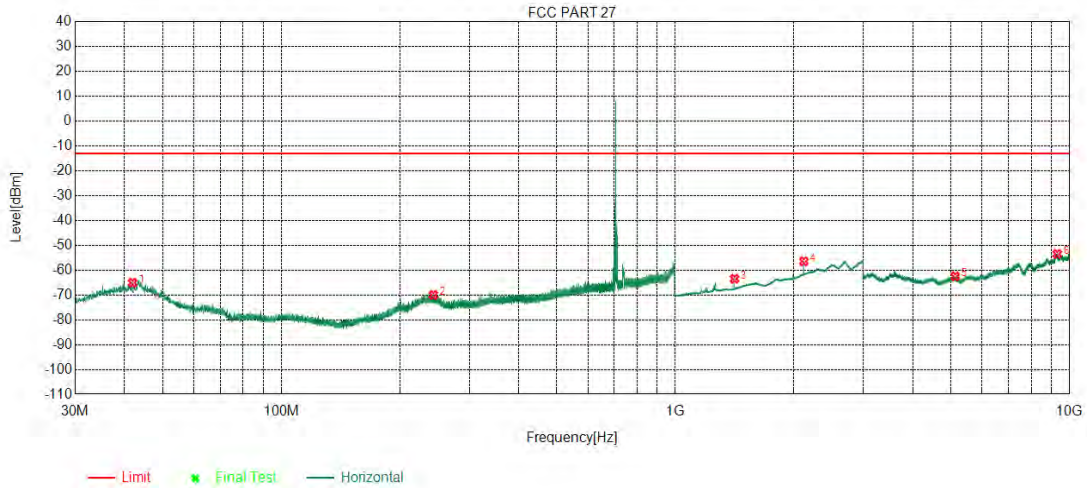


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7.5. Test Band = LTE_12_TM1 DOWN ANT

7.5.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.9801	-71.91	-65.05	-13.00	52.05	Horizontal
2	243.3137	-72.71	-69.99	-13.00	56.99	Horizontal
3	1412.8826	-65.78	-63.47	-13.00	50.47	Horizontal
4	2119.8240	-64.36	-56.42	-13.00	43.42	Horizontal
5	5132.0053	-55.84	-62.48	-13.00	49.48	Horizontal
6	9306.6923	-59.36	-53.48	-13.00	40.48	Horizontal

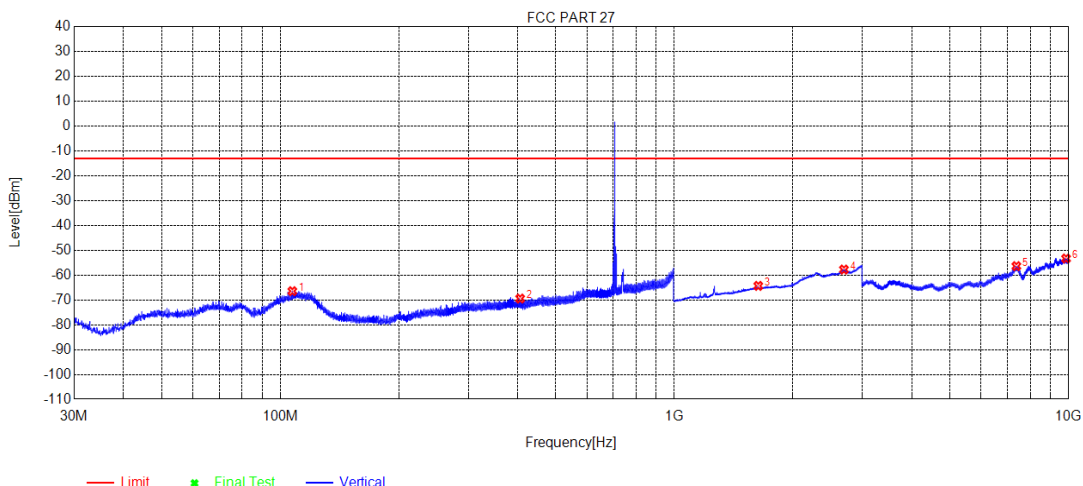


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7.6. Test Band = LTE_12_TM1 DOWN ANT
7.6.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.3614	-72.26	-66.46	-13.00	53.46	Vertical
2	406.2333	-72.53	-69.43	-13.00	56.43	Vertical
3	1632.9266	-68.94	-64.32	-13.00	51.32	Vertical
4	2693.5387	-69.29	-57.74	-13.00	44.74	Vertical
5	7375.7350	-56.91	-56.37	-13.00	43.37	Vertical
6	9858.3143	-59.74	-53.29	-13.00	40.29	Vertical

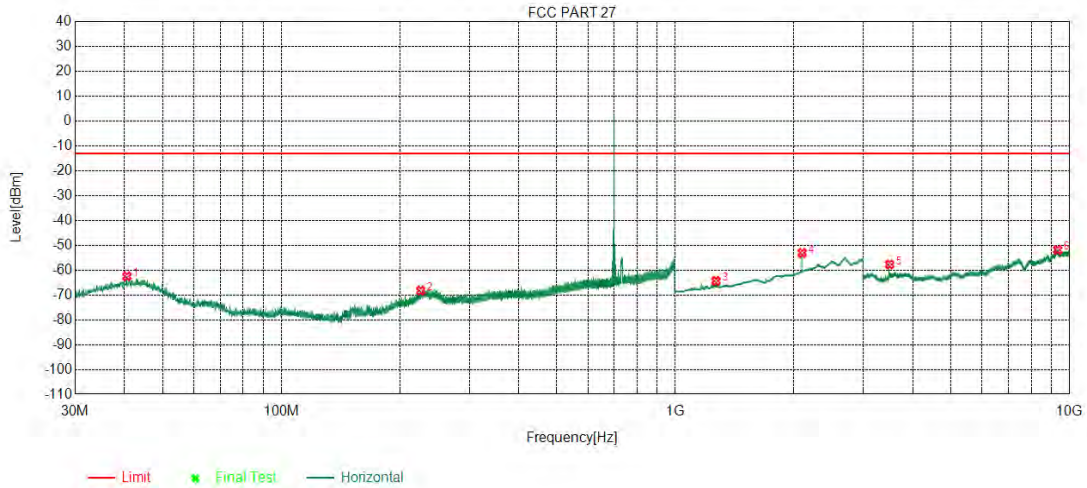


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7.7. Test Band = LTE_12_TM1 UP ANT

7.7.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.6220	-69.25	-62.46	-13.00	49.46	Horizontal
2	226.0468	-70.36	-68.24	-13.00	55.24	Horizontal
3	1267.6535	-65.73	-64.34	-13.00	51.34	Horizontal
4	2098.6197	-60.82	-53.08	-13.00	40.08	Horizontal
5	3497.8599	-48.70	-57.67	-13.00	44.67	Horizontal
6	9332.4533	-57.47	-51.84	-13.00	38.84	Horizontal

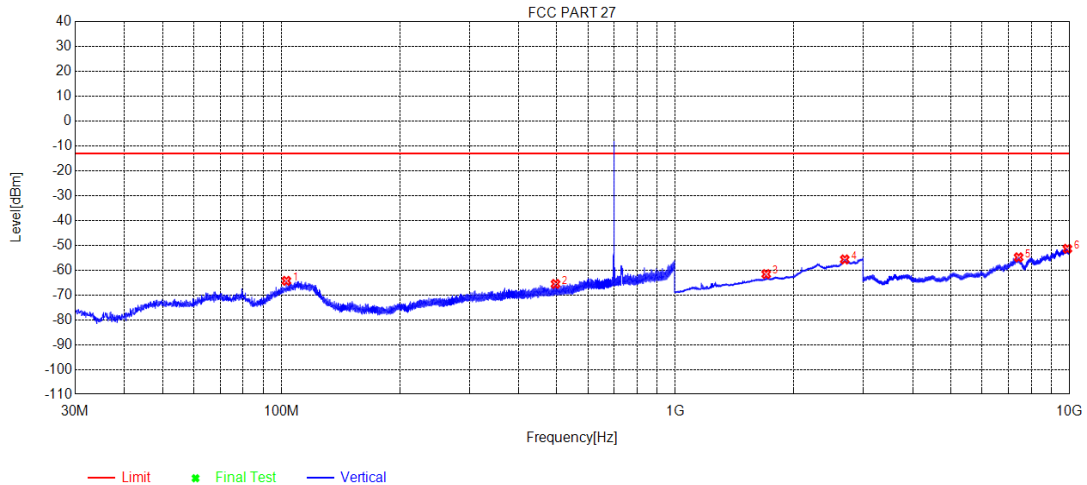


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7.8. Test Band = LTE_12_TM1 UP ANT

7.8.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	103.0932	-69.10	-64.30	-13.00	51.30	Vertical
2	496.6418	-70.07	-65.54	-13.00	52.54	Vertical
3	1700.1400	-66.44	-61.59	-13.00	48.59	Vertical
4	2690.7381	-67.18	-55.68	-13.00	42.68	Vertical
5	7430.0572	-55.25	-54.83	-13.00	41.83	Vertical
6	9877.9151	-57.79	-51.38	-13.00	38.38	Vertical

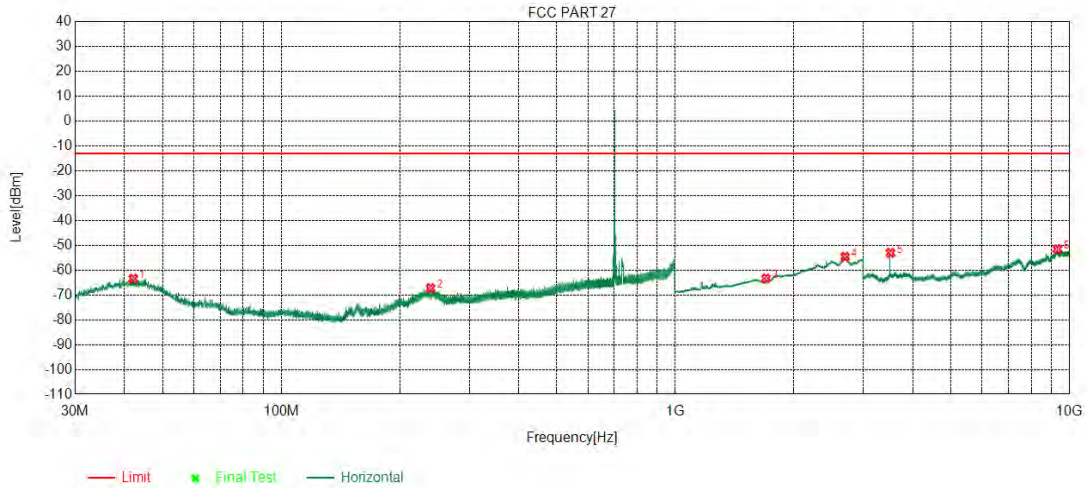


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7.9. Test Band = LTE_12_TM1 UP ANT

7.9.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1256	-70.26	-63.39	-13.00	50.39	Horizontal
2	239.3365	-70.05	-67.26	-13.00	54.26	Horizontal
3	1699.7399	-66.84	-63.29	-13.00	50.29	Horizontal
4	2695.5391	-67.42	-54.62	-13.00	41.62	Horizontal
5	3515.7806	-44.24	-53.04	-13.00	40.04	Horizontal
6	9318.4527	-57.30	-51.54	-13.00	38.54	Horizontal

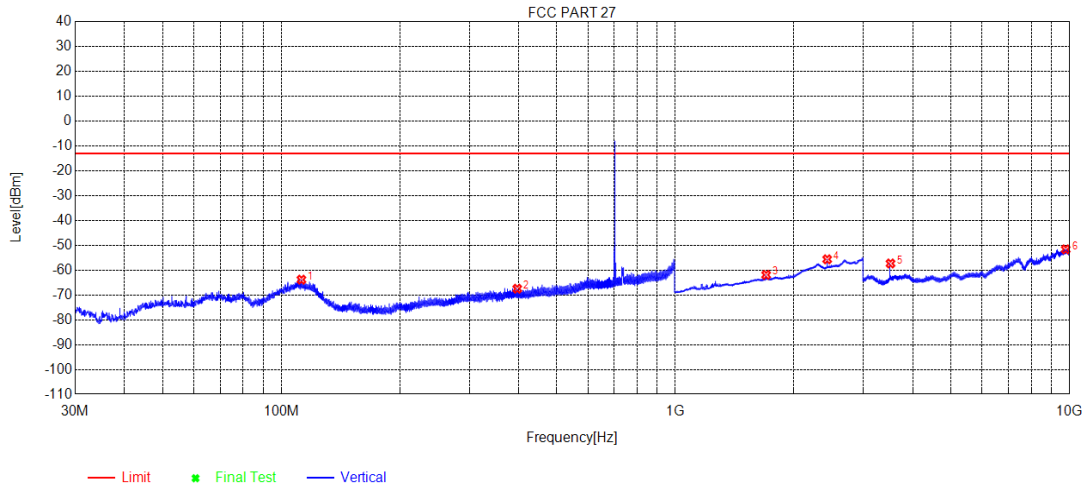


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7.10. Test Band = LTE_12_TM1 UP ANT

7.10.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	112.5511	-70.02	-63.83	-13.00	50.83	Vertical
2	397.1634	-70.62	-67.48	-13.00	54.48	Vertical
3	1699.7399	-66.75	-61.90	-13.00	48.90	Vertical
4	2427.8856	-64.78	-55.63	-13.00	42.63	Vertical
5	3515.2206	-47.40	-57.31	-13.00	44.31	Vertical
6	9781.8713	-58.09	-51.62	-13.00	38.62	Vertical

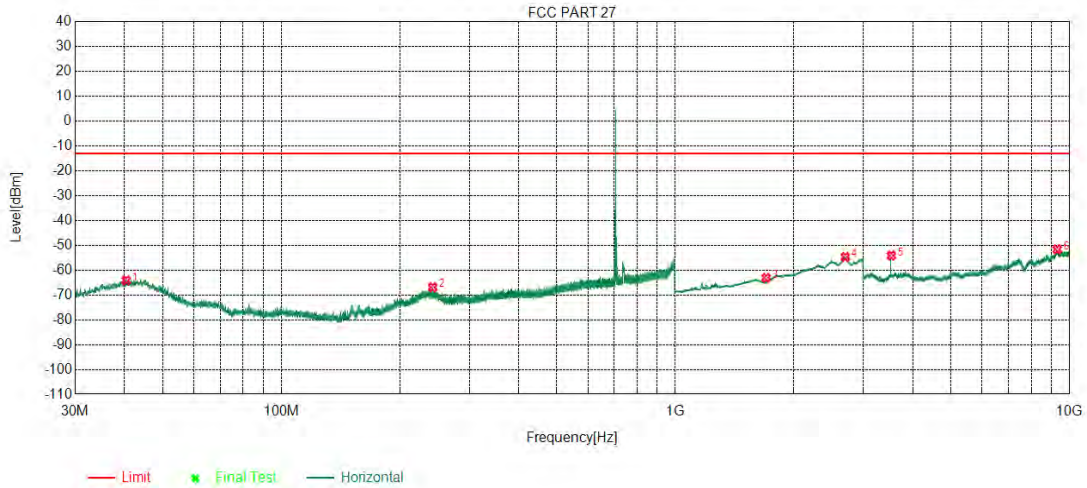


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7.11. Test Band = LTE_12_TM1 UP ANT

7.11.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.4280	-70.91	-64.13	-13.00	51.13	Horizontal
2	242.3436	-69.68	-66.94	-13.00	53.94	Horizontal
3	1699.7399	-66.64	-63.09	-13.00	50.09	Horizontal
4	2699.5399	-67.60	-54.68	-13.00	41.68	Horizontal
5	3533.1413	-45.46	-54.11	-13.00	41.11	Horizontal
6	9307.5323	-57.45	-51.58	-13.00	38.58	Horizontal

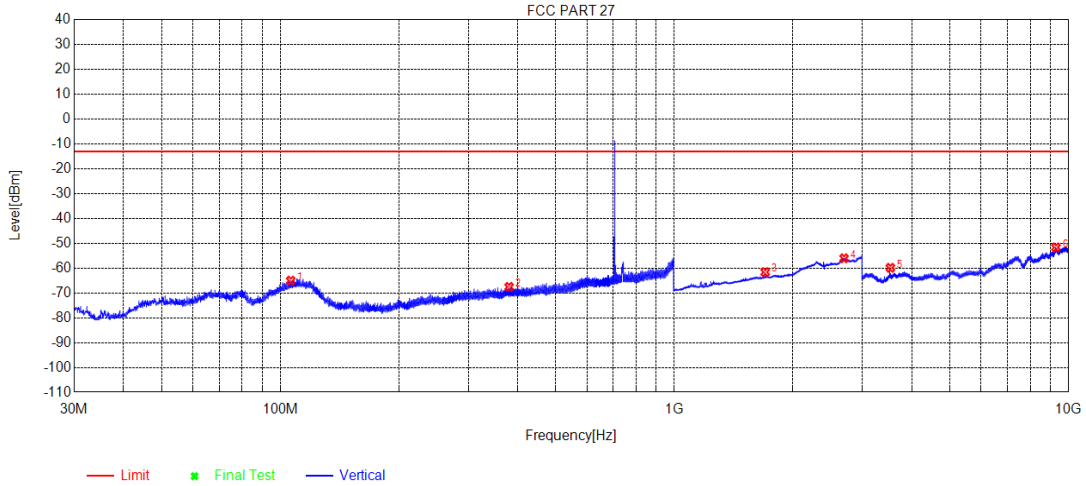


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7.12. Test Band = LTE_12_TM1 UP ANT

7.12.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	106.3913	-70.60	-65.03	-13.00	52.03	Vertical
2	380.9635	-70.81	-67.55	-13.00	54.55	Vertical
3	1700.1400	-66.45	-61.60	-13.00	48.60	Vertical
4	2695.5391	-67.60	-56.01	-13.00	43.01	Vertical
5	3532.8613	-50.12	-59.86	-13.00	46.86	Vertical
6	9295.7718	-57.69	-51.65	-13.00	38.65	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance above 18G and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs 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	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	4.00	0.005682	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	0.90	0.001278	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	1.80	0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.60	0.000848	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	0.60	0.000844	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	3.10	0.004403	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-1.40	-0.001989	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	2.60	0.003693	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	0.50	0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	2.00	0.002827	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	1.80	0.002544	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-1.80	-0.002532	±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	-1.30	-0.001828	±2.5	PASS



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8.2. Frequency Vs 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	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	1.50	0.002131	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	0.80	0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	0.80	0.001136	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	3.50	0.004947	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.70	0.000989	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.80	0.001131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	2.20	0.003110	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.80	-0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.40	0.001979	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.40	-0.003376	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.70	-0.003797	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-3.40	-0.004782	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	1.30	0.001828	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-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	0	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-1.10	-0.001563	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	2.30	0.003267	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	0.40	0.000568	±2.5	PASS



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Band12	10MHz	16QAM	23060	50RB#0	NV	40	1.60	0.002273	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	1.50	0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	1.70	0.002403	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	4.20	0.005936	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	1.50	0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	0.70	0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	0.40	0.000563	±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	-10	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-3.00	-0.004219	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	0.20	0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	0.30	0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS



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