

Appendix for LTE B12 test report

Appendix 1: Effective (Isotropic) Radiated Power Output Data

Test Results:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.60	24.45	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.56	24.41	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.68	24.53	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.54	24.39	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.61	24.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.50	24.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	24.57	24.42	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.38	24.23	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.47	24.32	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.33	24.18	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.68	24.53	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.51	24.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.46	24.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	24.56	24.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.69	24.54	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.49	24.34	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.46	24.31	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.30	24.15	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.31	24.16	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.29	24.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	24.33	24.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	24.91	24.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	24.91	24.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	24.96	24.81	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	24.57	24.42	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	24.49	24.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	24.71	24.56	34.77	PASS

Band12	1.4MHz	16QAM	23017	6RB#0	23.66	23.51	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	24.65	24.5	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.52	24.37	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	24.82	24.67	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	24.33	24.18	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	24.05	23.9	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	24.53	24.38	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	23.46	23.31	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	25.22	25.07	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	24.54	24.39	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	24.49	24.34	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	24.16	24.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	24.16	24.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	24.23	24.08	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	23.13	22.98	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.32	24.17	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.54	24.39	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.37	24.22	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	24.48	24.33	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	24.49	24.34	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	24.51	24.36	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	24.51	24.36	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.48	24.33	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.11	23.96	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.26	24.11	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	24.40	24.25	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	24.42	24.27	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	24.39	24.24	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	24.41	24.26	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.38	24.23	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.27	24.12	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.17	24.02	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	24.26	24.11	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	24.31	24.16	34.77	PASS



Band12	3MHz	QPSK	23165	8RB#7	24.31	24.16	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	24.25	24.1	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	24.34	24.19	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	24.99	24.84	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	24.29	24.14	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	23.88	23.73	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	23.54	23.39	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	23.90	23.75	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	23.64	23.49	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	24.09	23.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	24.63	24.48	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	24.35	24.2	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	23.11	22.96	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	23.38	23.23	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	23.51	23.36	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	23.22	23.07	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	24.87	24.72	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.87	23.72	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	24.61	24.46	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	23.27	23.12	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	23.53	23.38	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	23.57	23.42	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	23.41	23.26	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.51	24.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.45	24.3	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.24	24.09	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	24.38	24.23	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	24.57	24.42	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	24.52	24.37	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	24.52	24.37	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.55	24.4	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.32	24.17	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.57	24.42	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	24.31	24.16	34.77	PASS

Band12	5MHz	QPSK	23095	12RB#6	24.40	24.25	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	24.35	24.2	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	24.26	24.11	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.43	24.28	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.40	24.25	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.96	23.81	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	24.29	24.14	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	24.34	24.19	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	24.18	24.03	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	24.22	24.07	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.81	23.66	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	24.83	24.68	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	24.54	24.39	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	23.41	23.26	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	23.42	23.27	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	23.24	23.09	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	23.31	23.16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.52	23.37	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	24.31	24.16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	24.24	24.09	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	23.09	22.94	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	23.09	22.94	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	23.41	23.26	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	23.37	23.22	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	24.39	24.24	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	24.16	24.01	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	24.40	24.25	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	23.35	23.2	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	23.19	23.04	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	23.13	22.98	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	23.25	23.1	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.33	24.18	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.52	24.37	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.29	24.14	34.77	PASS



Band12	10MHz	QPSK	23060	25RB#0	24.50	24.35	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	24.53	24.38	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	24.49	24.34	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	24.55	24.4	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.35	24.2	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.63	24.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.20	24.05	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	24.44	24.29	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	24.44	24.29	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	24.47	24.32	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	24.41	24.26	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.52	24.37	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.70	24.55	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.32	24.17	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	24.47	24.32	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	24.37	24.22	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	24.43	24.28	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	24.49	24.34	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	24.10	23.95	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	24.29	24.14	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	24.04	23.89	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	23.29	23.14	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	23.49	23.34	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	23.42	23.27	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	23.35	23.2	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	24.72	24.57	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	24.65	24.5	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	24.23	24.08	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	23.51	23.36	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	23.51	23.36	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	23.26	23.11	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	23.30	23.15	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	24.46	24.31	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	25.02	24.87	34.77	PASS

Band12	10MHz	16QAM	23130	1RB#49	24.92	24.77	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	23.33	23.18	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	23.53	23.38	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	23.25	23.1	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	23.20	23.05	34.77	PASS

Note1:

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

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

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

b, SGP=Signal Generator Level

c, Antenna gain of LTE Band 12 is 2dBi.

Note2: SET Span=1.5*OBW

SET RBW=1%of the OBW,not to exceed 1MHz

SET VBW>= 3*RBW

SET Sweep time=auto-couple.

Detector:RMS

Appendix 2: Peak-to-Average Ratio

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	3.45	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.76	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3.52	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.02	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.51	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.81	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.34	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.54	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.41	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.88	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.42	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.72	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	3.48	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.66	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	3.47	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.83	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.42	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.68	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	4.17	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.50	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.12	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.70	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.08	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.51	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.42	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.68	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	3.44	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.83	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	3.45	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.67	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	4.25	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.53	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.14	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.67	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.16	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.53	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	3.44	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.88	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.33	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.91	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	3.49	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.77	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.20	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.66	13	PASS



Band12	10MHz	16QAM	23095	1RB#0	4.12	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.78	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.05	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.61	13	PASS

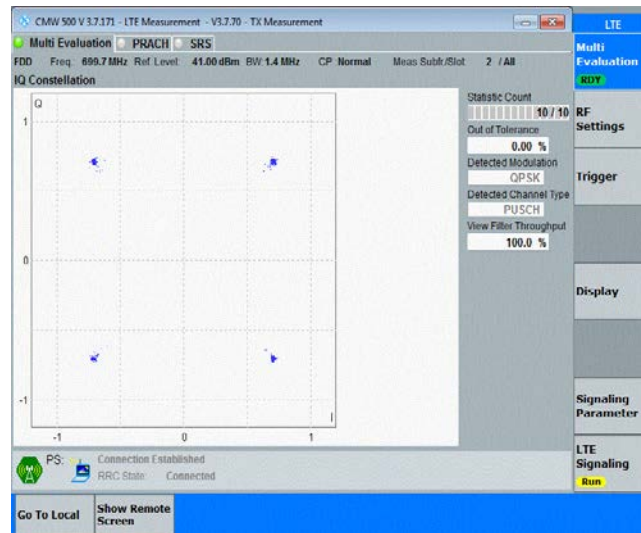
Appendix 3: Modulation Characteristics

Test Result

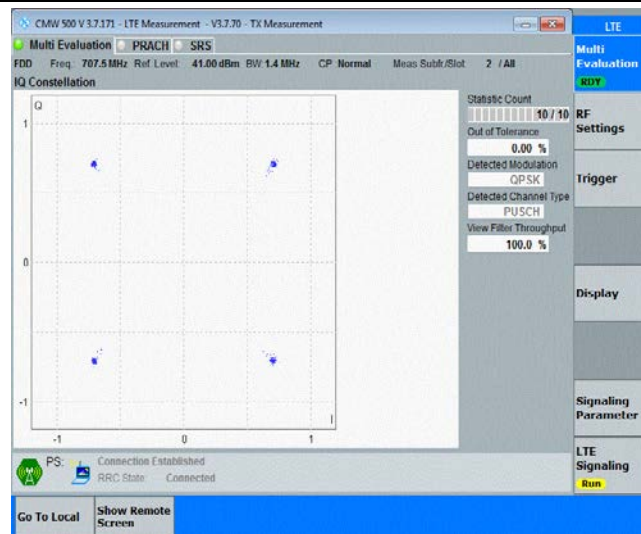
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	PASS	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	PASS	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	PASS	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	PASS	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	PASS	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	PASS	PASS
Band12	3MHz	QPSK	23025	15RB#0	PASS	PASS
Band12	3MHz	QPSK	23095	15RB#0	PASS	PASS
Band12	3MHz	QPSK	23165	15RB#0	PASS	PASS
Band12	3MHz	16QAM	23025	15RB#0	PASS	PASS
Band12	3MHz	16QAM	23095	15RB#0	PASS	PASS
Band12	3MHz	16QAM	23165	15RB#0	PASS	PASS
Band12	5MHz	QPSK	23035	25RB#0	PASS	PASS
Band12	5MHz	QPSK	23095	25RB#0	PASS	PASS
Band12	5MHz	QPSK	23155	25RB#0	PASS	PASS
Band12	5MHz	16QAM	23035	25RB#0	PASS	PASS
Band12	5MHz	16QAM	23095	25RB#0	PASS	PASS
Band12	5MHz	16QAM	23155	25RB#0	PASS	PASS
Band12	10MHz	QPSK	23060	50RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	QPSK	23130	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23060	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23130	50RB#0	PASS	PASS

Test Graphs

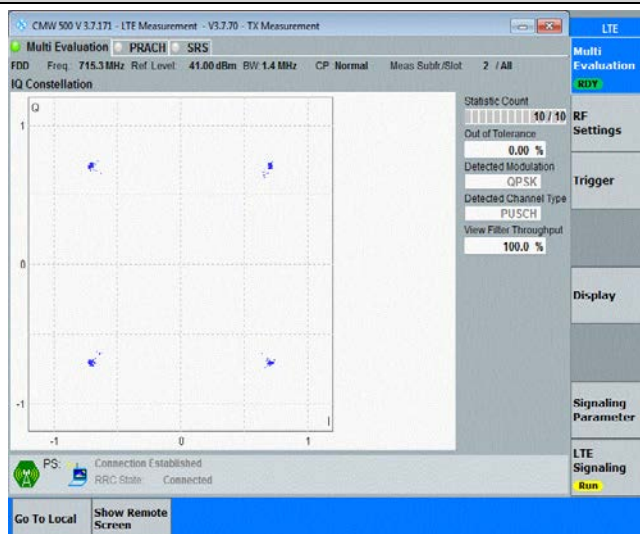
Band12-1.4MHz-QPSK-23017-6RB#0



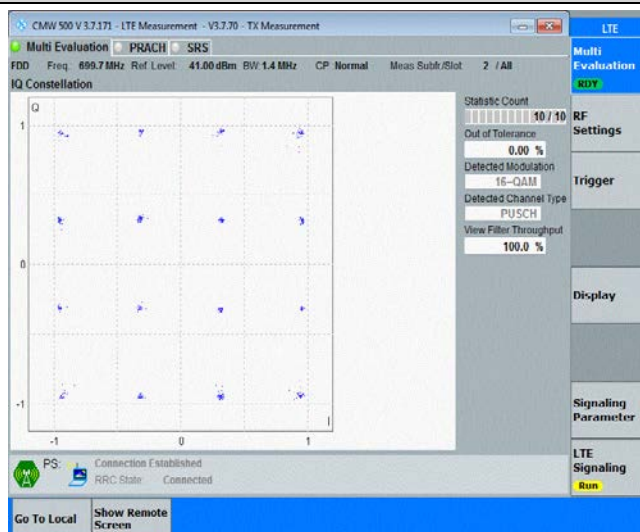
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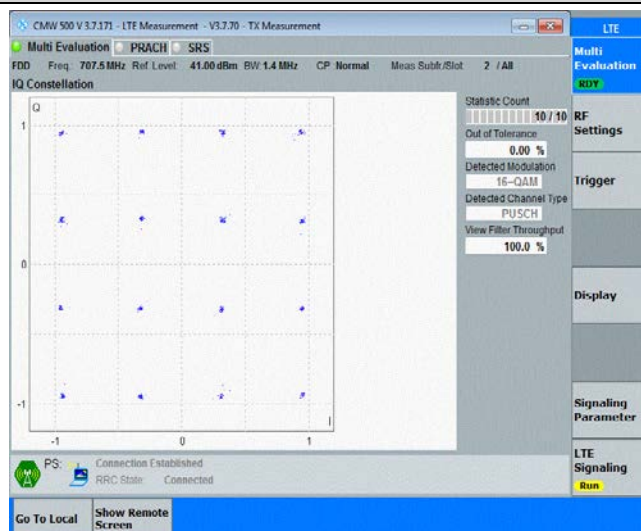
Band12-1.4MHz-QPSK-23173-6RB#0



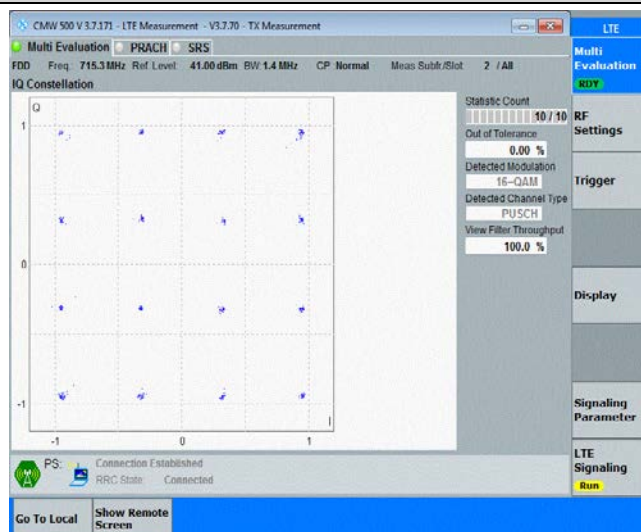
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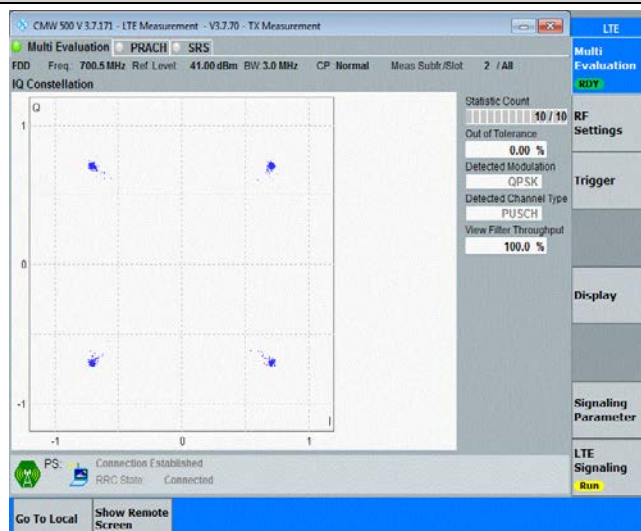
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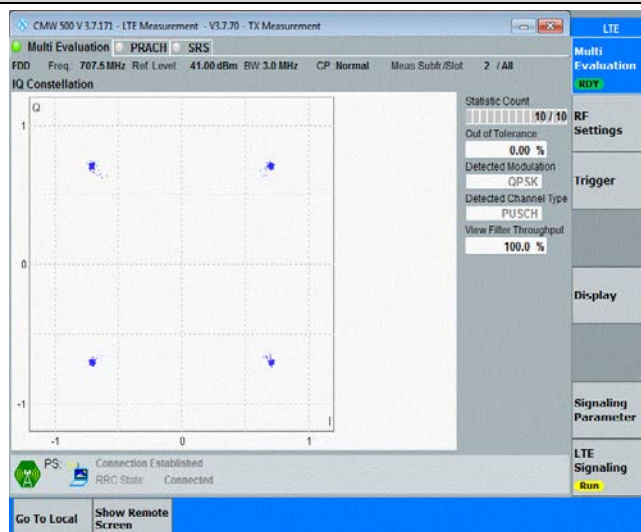
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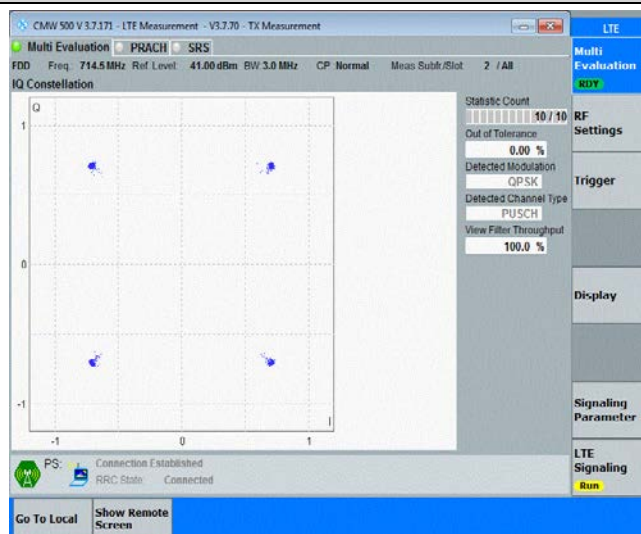
Band12-3MHz-QPSK-23025-15RB#0



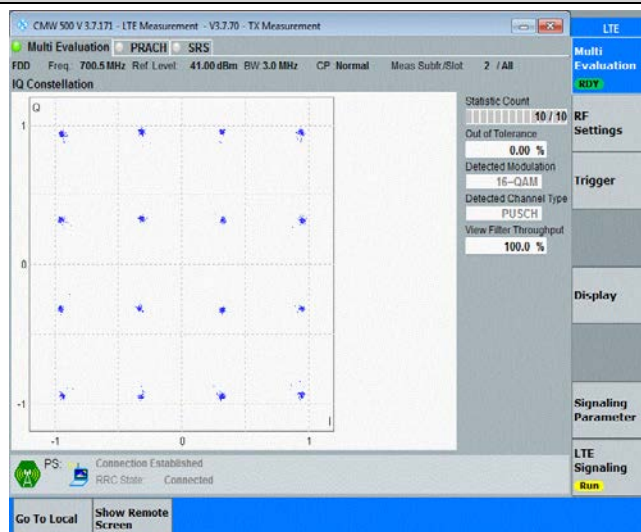
Band12-3MHz-QPSK-23095-15RB#0



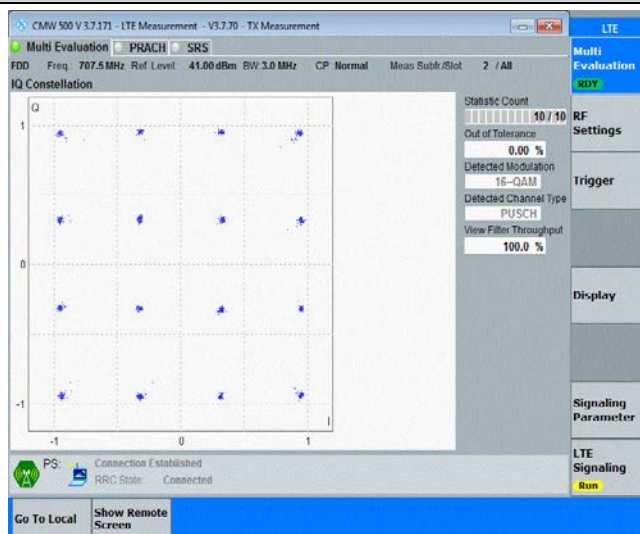
Band12-3MHz-QPSK-23165-15RB#0



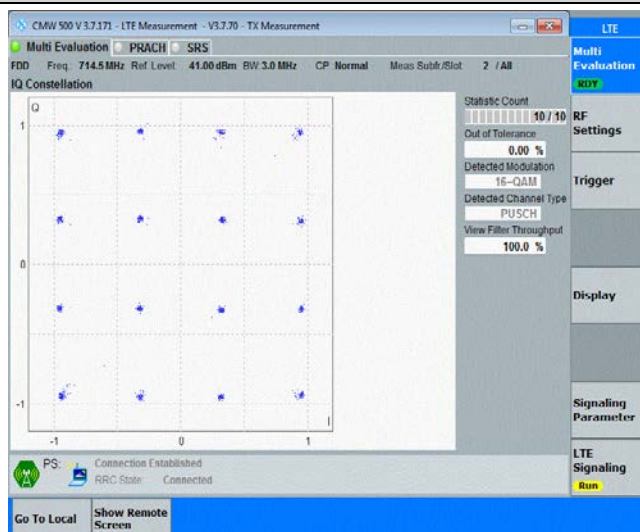
Band12-3MHz-16QAM-23025-15RB#0



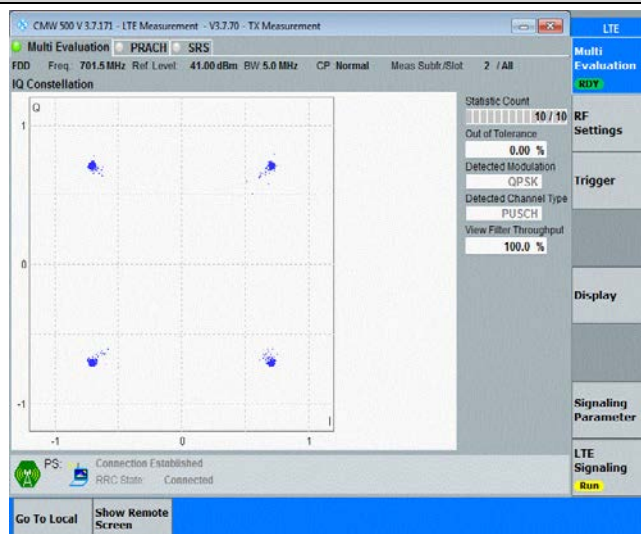
Band12-3MHz-16QAM-23095-15RB#0



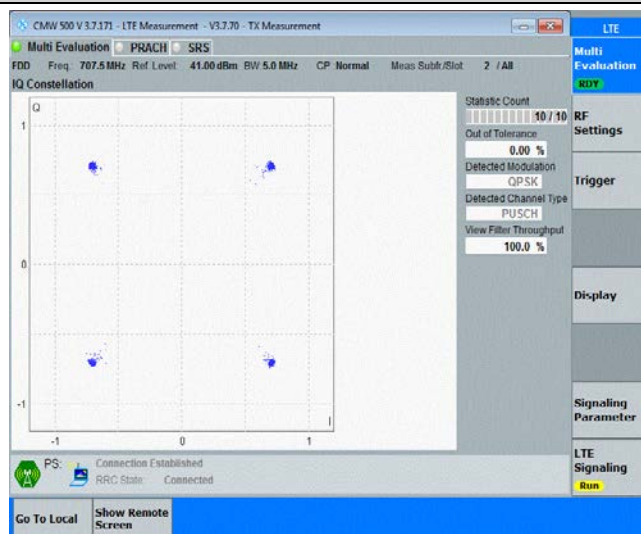
Band12-3MHz-16QAM-23165-15RB#0



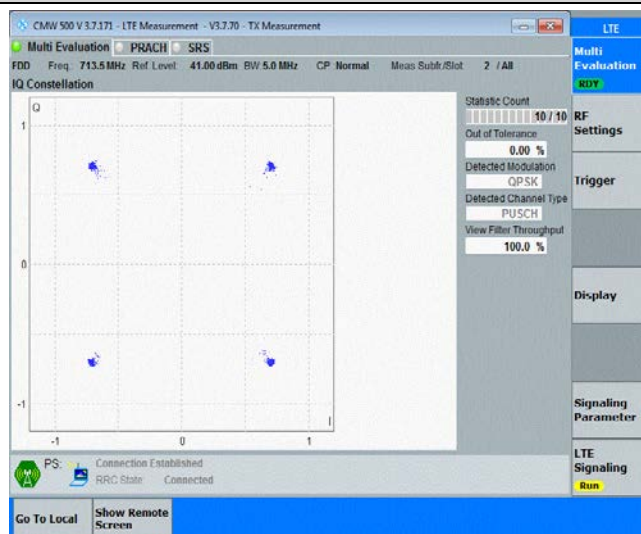
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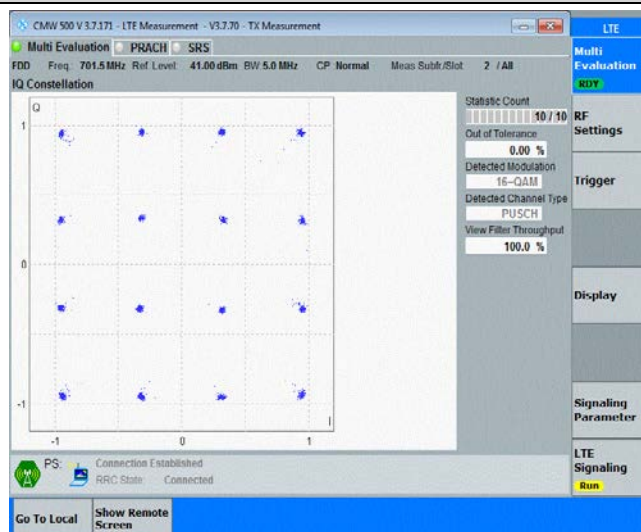
Band12-5MHz-QPSK-23095-25RB#0



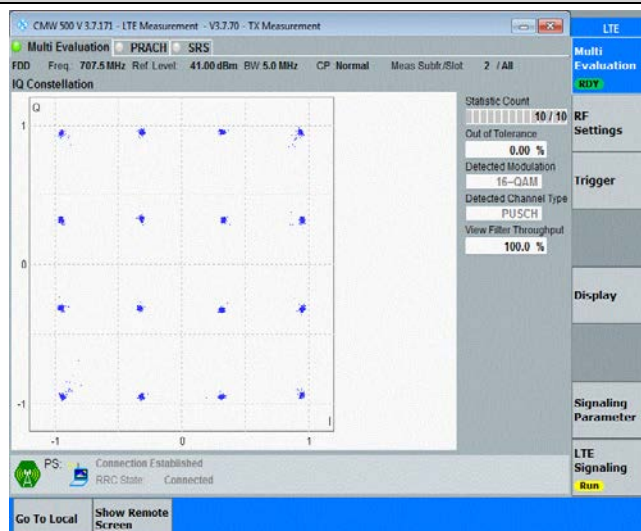
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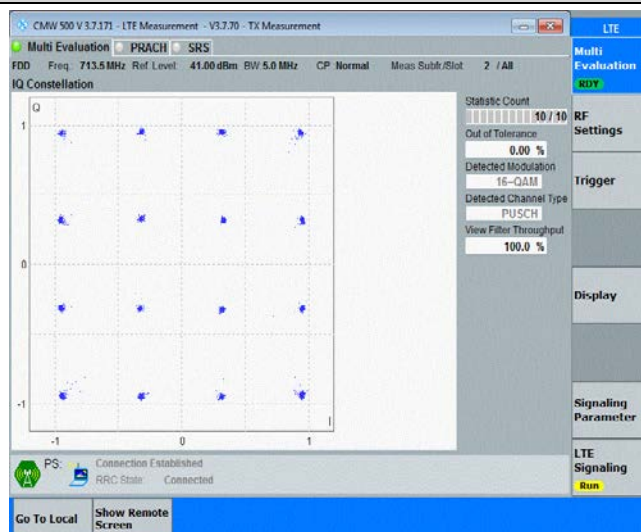
Band12-5MHz-16QAM-23035-25RB#0



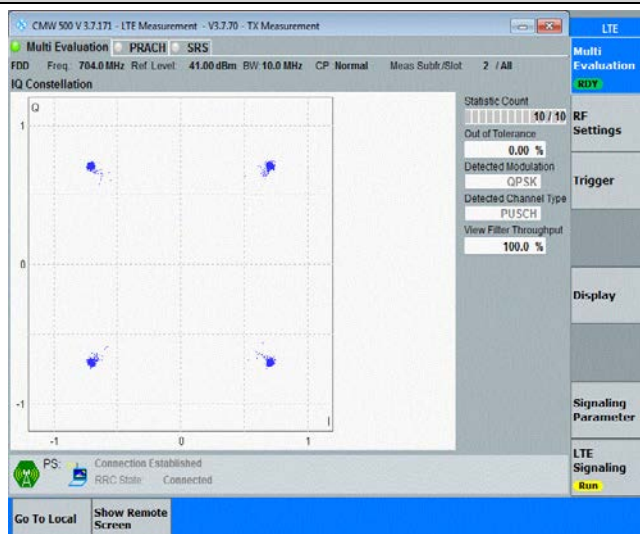
Band12-5MHz-16QAM-23095-25RB#0



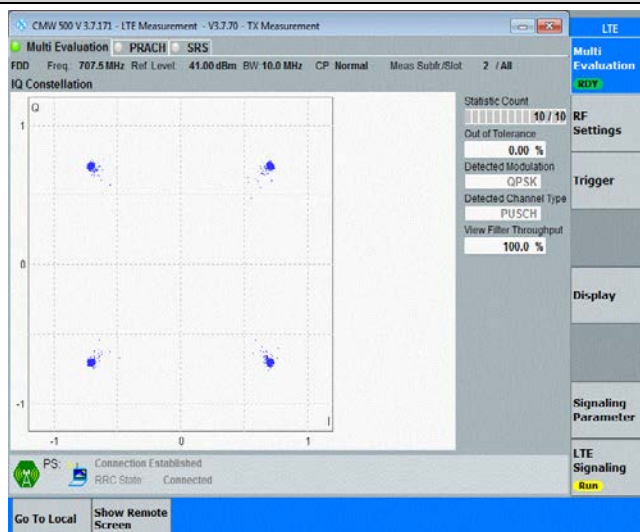
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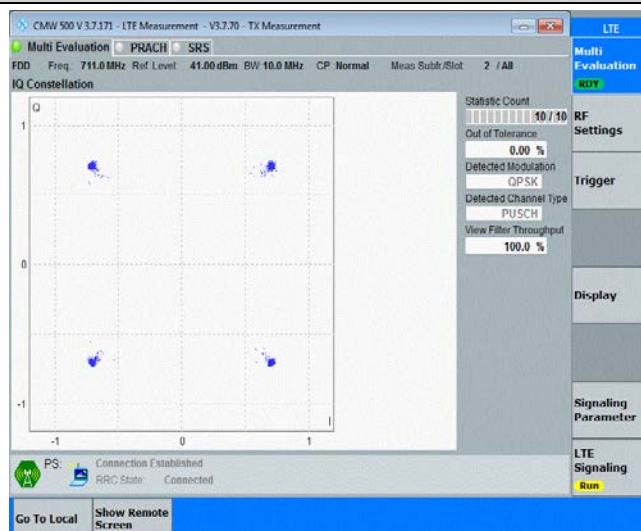
Band12-10MHz-QPSK-23060-50RB#0



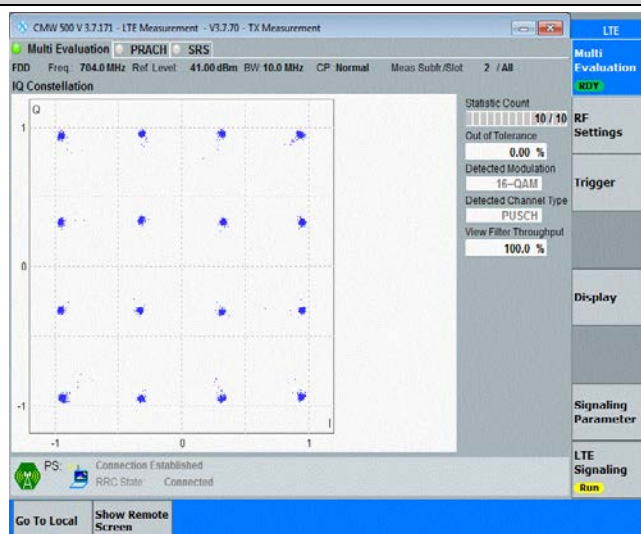
Band12-10MHz-QPSK-23095-50RB#0



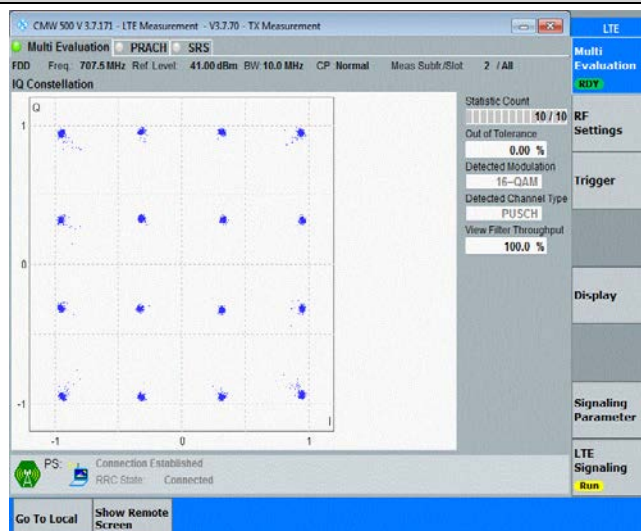
Band12-10MHz-QPSK-23130-50RB#0



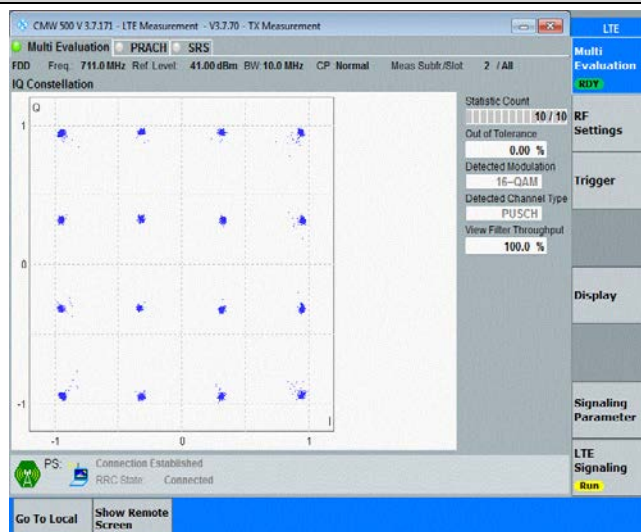
Band12-10MHz-16QAM-23060-50RB#0



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



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



Appendix 4: Bandwidth

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0890	1.272	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0914	1.257	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0916	1.245	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0907	1.267	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0889	1.271	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0914	1.274	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6907	2.919	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7002	2.922	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6924	2.885	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6854	2.928	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6905	2.923	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6932	2.931	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4900	4.871	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4933	4.864	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4879	4.873	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4931	4.860	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4974	4.889	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4939	4.812	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9679	9.557	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9818	9.549	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9482	9.523	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9547	9.535	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9734	9.558	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9317	9.529	PASS

Test Plots

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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



Appendix 5: Band Edges Compliance

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-27.75,-15.83	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-36.76,-45.01	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-26.05,-21.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-44.61,-43.82	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-16.03,-26.67	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-21.66,-26.11	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-27.91,-17.85	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-38.63,-45.18	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-27.08,-23.16	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-45.76,-44.55	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-14.23,-26.42	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-22.93,-27.36	PASS
Band12	3MHz	QPSK	23025	1RB#0	-25.68,-13.97	PASS
Band12	3MHz	QPSK	23025	1RB#14	-42.25,-48.07	PASS
Band12	3MHz	QPSK	23025	15RB#0	-27.83,-20.01	PASS
Band12	3MHz	QPSK	23165	1RB#0	-49.07,-42.45	PASS
Band12	3MHz	QPSK	23165	1RB#14	-15.64,-26.80	PASS
Band12	3MHz	QPSK	23165	15RB#0	-19.52,-26.99	PASS
Band12	3MHz	16QAM	23025	1RB#0	-26.78,-13.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	-42.06,-47.14	PASS
Band12	3MHz	16QAM	23025	15RB#0	-28.88,-21.24	PASS
Band12	3MHz	16QAM	23165	1RB#0	-48.35,-42.84	PASS
Band12	3MHz	16QAM	23165	1RB#14	-13.68,-26.23	PASS
Band12	3MHz	16QAM	23165	15RB#0	-20.20,-28.00	PASS
Band12	5MHz	QPSK	23035	1RB#0	-14.55	PASS
Band12	5MHz	QPSK	23035	1RB#24	-48.53	PASS
Band12	5MHz	QPSK	23035	25RB#0	-20.13	PASS
Band12	5MHz	QPSK	23155	1RB#0	-49.79	PASS
Band12	5MHz	QPSK	23155	1RB#24	-14.35	PASS
Band12	5MHz	QPSK	23155	25RB#0	-20.63	PASS
Band12	5MHz	16QAM	23035	1RB#0	-13.35	PASS
Band12	5MHz	16QAM	23035	1RB#24	-50.01	PASS
Band12	5MHz	16QAM	23035	25RB#0	-21.31	PASS
Band12	5MHz	16QAM	23155	1RB#0	-49.69	PASS
Band12	5MHz	16QAM	23155	1RB#24	-15.97	PASS
Band12	5MHz	16QAM	23155	25RB#0	-21.95	PASS
Band12	10MHz	QPSK	23060	1RB#0	-28.12,-20.27	PASS
Band12	10MHz	QPSK	23060	1RB#49	-42.90,-41.08	PASS
Band12	10MHz	QPSK	23060	50RB#0	-26.36,-23.26	PASS
Band12	10MHz	QPSK	23130	1RB#0	-39.96,-41.81	PASS
Band12	10MHz	QPSK	23130	1RB#49	-18.90,-21.54	PASS
Band12	10MHz	QPSK	23130	50RB#0	-23.79,-25.56	PASS
Band12	10MHz	16QAM	23060	1RB#0	-26.72,-17.11	PASS

Band12	10MHz	16QAM	23060	1RB#49	-39.70,-39.30	PASS
Band12	10MHz	16QAM	23060	50RB#0	-27.91,-25.52	PASS
Band12	10MHz	16QAM	23130	1RB#0	-40.13,-40.19	PASS
Band12	10MHz	16QAM	23130	1RB#49	-13.15,-20.31	PASS
Band12	10MHz	16QAM	23130	50RB#0	-24.62,-27.32	PASS

Test Plots

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-1RB#5



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



Band12-1.4MHz-QPSK-23173-1RB#0



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



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



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



Band12-1.4MHz-16QAM-23017-1RB#5



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



Band12-1.4MHz-16QAM-23173-1RB#0



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



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



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



Band12-3MHz-QPSK-23025-1RB#14



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



Band12-3MHz-QPSK-23165-1RB#0



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



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



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



Band12-3MHz-16QAM-23025-1RB#14



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



Band12-3MHz-16QAM-23165-1RB#0



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



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



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



Band12-5MHz-QPSK-23035-1RB#24



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



Band12-5MHz-QPSK-23155-1RB#0



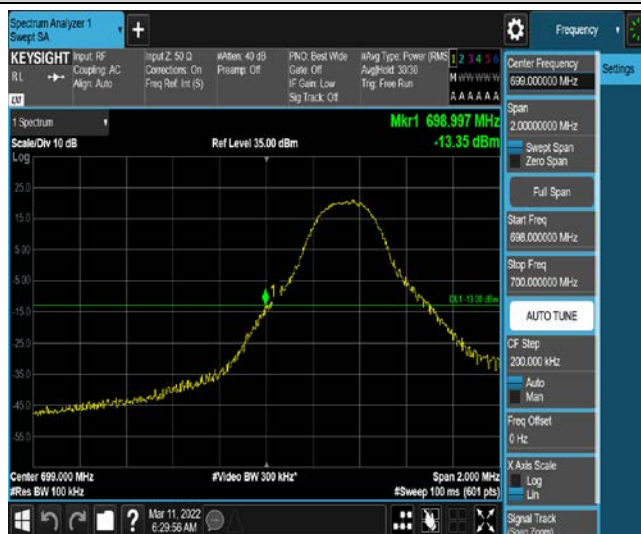
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Band12-5MHz-16QAM-23035-1RB#0



Band12-5MHz-16QAM-23035-1RB#24



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



Band12-5MHz-16QAM-23155-1RB#0



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



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



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



Band12-10MHz-QPSK-23060-1RB#49



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



Band12-10MHz-QPSK-23130-1RB#0



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



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



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



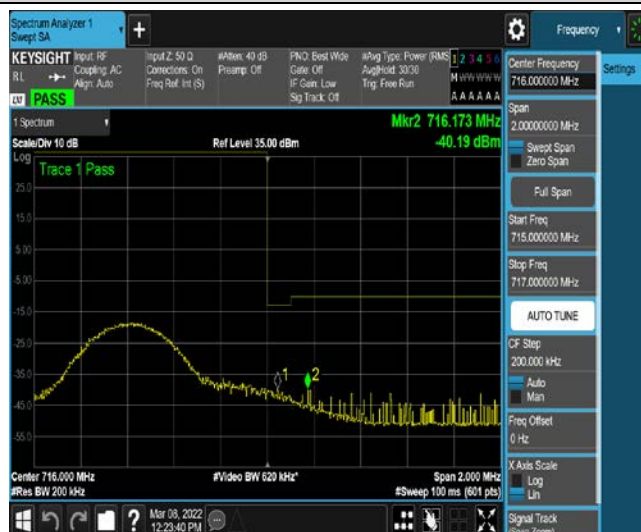
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Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-1RB#0



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



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



Appendix 6: Spurious Emission at Antenna Terminals

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range1:30~1000MHz	-44.98	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range2:1000~10000MHz	-37.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-44.7	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-37.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range1:30~1000MHz	-44.57	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range2:1000~10000MHz	-36.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range1:30~1000MHz	-44.29	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range2:1000~10000MHz	-38.71	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-43.68	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-38.41	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range1:30~1000MHz	-44.28	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range2:1000~10000MHz	-38.12	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range1:30~1000MHz	-44.18	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:1000~10000MHz	-36.4	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-44.33	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-38.61	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:30~1000MHz	-44.81	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range2:1000~10000MHz	-35.53	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range1:30~1000MHz	-44.27	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range2:1000~10000MHz	-38.49	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-43.32	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-37.7	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range1:30~1000MHz	-44.89	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range2:1000~10000MHz	-36.34	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:30~1000MHz	-43.25	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:1000~10000MHz	-37.62	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-43.29	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-37.82	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:30~1000MHz	-44.49	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:1000~10000MHz	-37.58	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:30~1000MHz	-44.28	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:1000~10000MHz	-37.73	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-43.05	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-37.47	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:30~1000MHz	-44.72	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:1000~10000MHz	-37.81	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-43.43	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-38.27	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-44.76	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-37.44	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-45.06	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-36.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-43.41	PASS

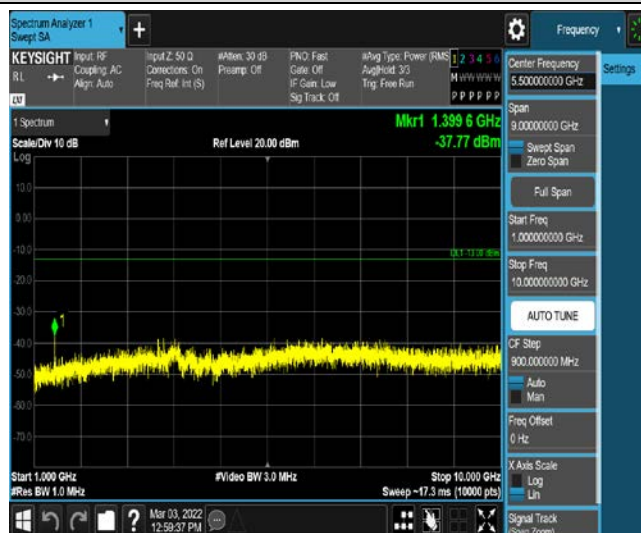
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-37.46	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-44.37	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-37.34	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-44.5	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-37.89	PASS

Test Plots

Band12-1.4MHz-QPSK-23017-1RB#0-Range1:30~1000MHz



Band12-1.4MHz-QPSK-23017-1RB#0-Range2:1000~10000MHz



Band12-1.4MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Band12-1.4MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-1.4MHz-QPSK-23173-1RB#0-Range1:30~1000MHz



Band12-1.4MHz-QPSK-23173-1RB#0-Range2:1000~10000MHz



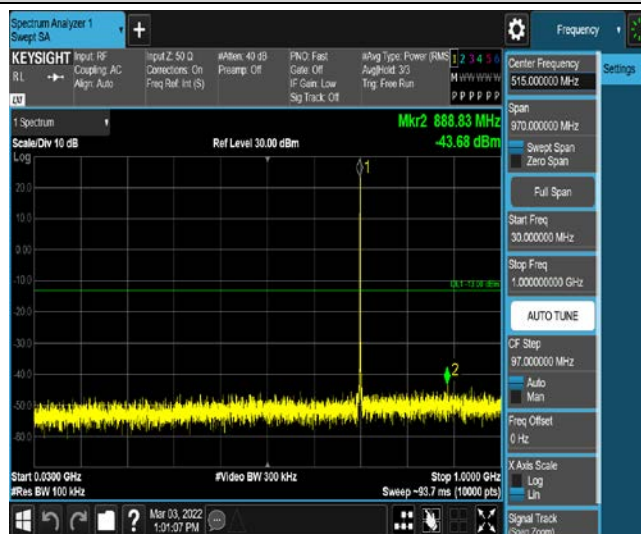
Band12-1.4MHz-16QAM-23017-1RB#0-Range1:30~1000MHz



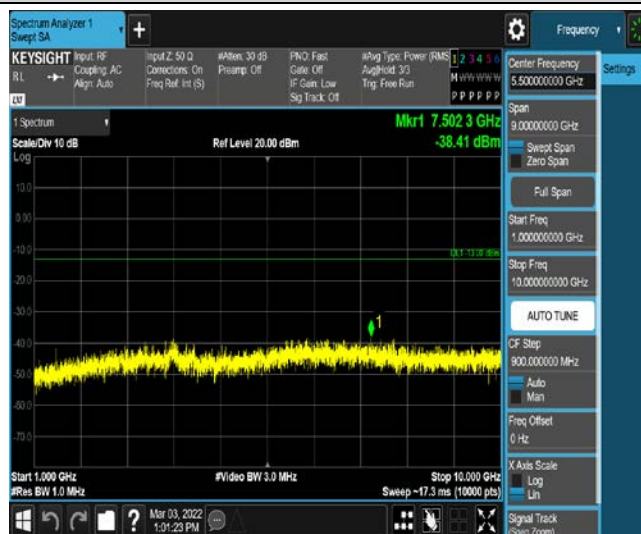
Band12-1.4MHz-16QAM-23017-1RB#0-Range2:1000~10000MHz



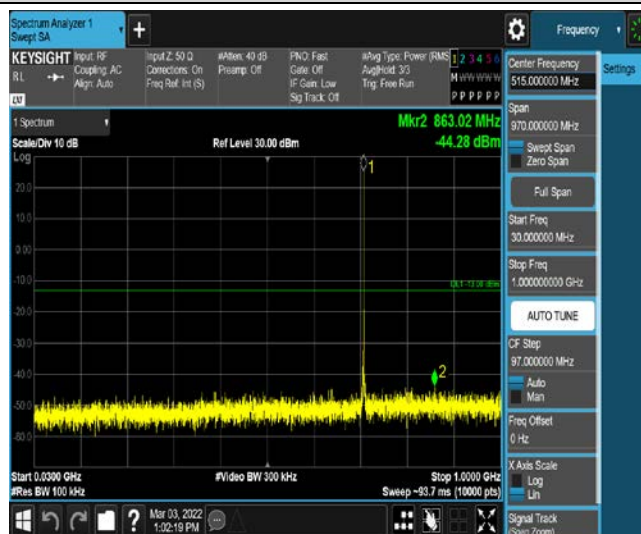
Band12-1.4MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



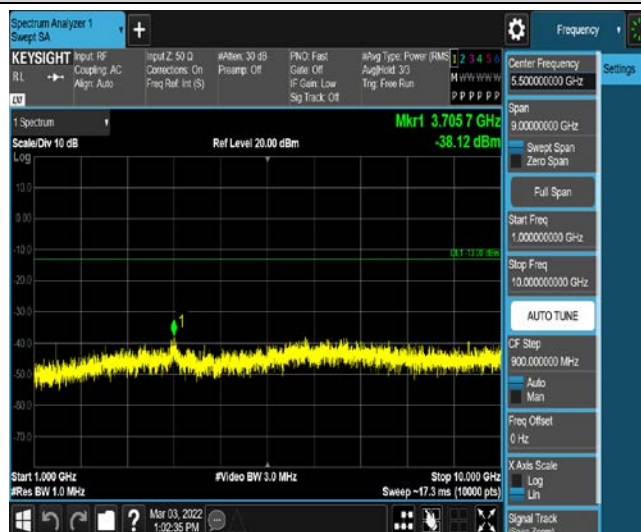
Band12-1.4MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Band12-1.4MHz-16QAM-23173-1RB#0-Range1:30~1000MHz



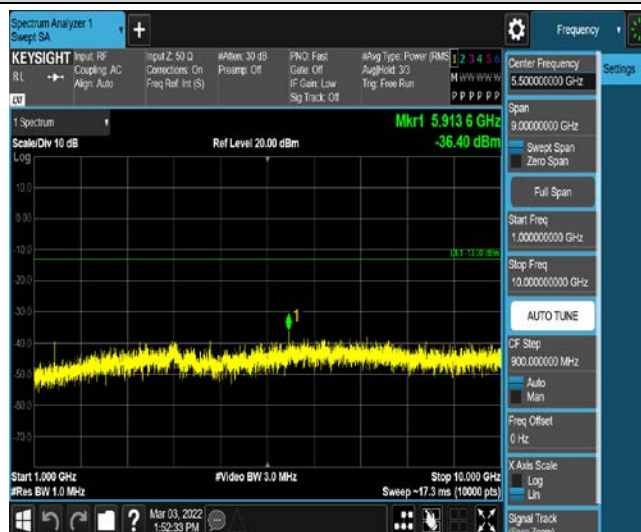
Band12-1.4MHz-16QAM-23173-1RB#0-Range2:1000~10000MHz



Band12-3MHz-QPSK-23025-1RB#0-Range1:30~1000MHz



Band12-3MHz-QPSK-23025-1RB#0-Range2:1000~10000MHz



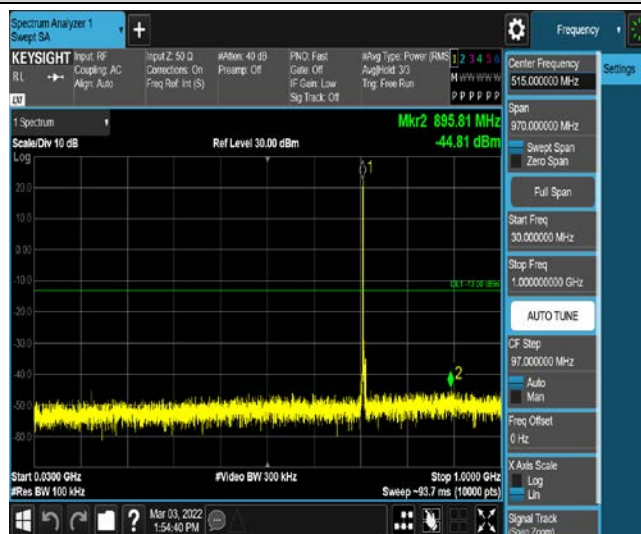
Band12-3MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Band12-3MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Band12-3MHz-QPSK-23165-1RB#0-Range1:30~1000MHz



Band12-3MHz-QPSK-23165-1RB#0-Range2:1000~10000MHz

