

Appendix for LTE B5 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
Band5	1.4MHz	QPSK	20407	1RB#0	23.75	23.6	38.5	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.78	23.63	38.5	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.78	23.63	38.5	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.62	23.47	38.5	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.51	23.36	38.5	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.63	23.48	38.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.68	22.53	38.5	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.21	23.06	38.5	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.43	23.28	38.5	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.27	23.12	38.5	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.24	23.09	38.5	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.32	23.17	38.5	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.27	23.12	38.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.27	22.12	38.5	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.62	23.47	38.5	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.42	23.27	38.5	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.40	23.25	38.5	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.29	23.14	38.5	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.31	23.16	38.5	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.21	23.06	38.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.27	22.12	38.5	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.57	22.42	38.5	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.96	22.81	38.5	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.48	22.33	38.5	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.76	22.61	38.5	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.75	22.6	38.5	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.76	22.61	38.5	PASS



Band5	1.4MHz	16QAM	20407	6RB#0	21.70	21.55	38.5	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.48	22.33	38.5	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.49	22.34	38.5	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.38	22.23	38.5	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.23	22.08	38.5	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.32	22.17	38.5	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.32	22.17	38.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.17	21.02	38.5	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.47	22.32	38.5	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.69	22.54	38.5	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.70	22.55	38.5	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.17	22.02	38.5	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.14	21.99	38.5	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.14	21.99	38.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.34	21.19	38.5	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.76	23.61	38.5	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.45	23.3	38.5	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.39	23.24	38.5	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.69	22.54	38.5	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.69	22.54	38.5	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.53	22.38	38.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.65	22.5	38.5	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.30	23.15	38.5	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.45	23.3	38.5	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.68	23.53	38.5	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.19	22.04	38.5	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.35	22.2	38.5	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.41	22.26	38.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.35	22.2	38.5	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.17	23.02	38.5	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.31	23.16	38.5	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.29	23.14	38.5	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.32	22.17	38.5	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.26	22.11	38.5	PASS



Band5	3MHz	QPSK	20635	8RB#7	22.43	22.28	38.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.27	22.12	38.5	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.75	22.6	38.5	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.59	22.44	38.5	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.38	22.23	38.5	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.90	21.75	38.5	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.55	21.4	38.5	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.72	21.57	38.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.74	21.59	38.5	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.29	22.14	38.5	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.43	22.28	38.5	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.02	21.87	38.5	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.30	21.15	38.5	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.54	21.39	38.5	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.58	21.43	38.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.06	20.91	38.5	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.65	22.5	38.5	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.38	22.23	38.5	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.24	22.09	38.5	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.44	21.29	38.5	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.18	21.03	38.5	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.31	21.16	38.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.20	21.05	38.5	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.62	23.47	38.5	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.68	23.53	38.5	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.34	23.19	38.5	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.66	22.51	38.5	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.65	22.5	38.5	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.61	22.46	38.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.56	22.41	38.5	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.36	23.21	38.5	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.48	23.33	38.5	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.37	23.22	38.5	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.37	22.22	38.5	PASS

Band5	5MHz	QPSK	20525	12RB#6	22.32	22.17	38.5	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.38	22.23	38.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.27	22.12	38.5	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.28	23.13	38.5	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.11	22.96	38.5	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.20	23.05	38.5	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.30	22.15	38.5	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.24	22.09	38.5	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.32	22.17	38.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.29	22.14	38.5	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.52	22.37	38.5	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.11	21.96	38.5	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.26	22.11	38.5	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.72	21.57	38.5	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.65	21.5	38.5	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.48	21.33	38.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.54	21.39	38.5	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.31	22.16	38.5	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.42	22.27	38.5	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.56	22.41	38.5	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.37	21.22	38.5	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.38	21.23	38.5	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.42	21.27	38.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.34	21.19	38.5	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.26	22.11	38.5	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.35	22.2	38.5	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.41	22.26	38.5	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.33	21.18	38.5	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.26	21.11	38.5	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.37	21.22	38.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.41	21.26	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.53	23.38	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.29	23.14	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.14	22.99	38.5	PASS

Band5	10MHz	QPSK	20450	25RB#0	22.59	22.44	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.59	22.44	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.40	22.25	38.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.49	22.34	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.93	22.78	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.22	23.07	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.34	23.19	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.42	22.27	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.35	22.2	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.35	22.2	38.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.32	22.17	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.16	23.01	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.31	23.16	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.24	23.09	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.32	22.17	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.33	22.18	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.31	22.16	38.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.35	22.2	38.5	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.75	22.6	38.5	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.20	22.05	38.5	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.16	22.01	38.5	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.63	21.48	38.5	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.54	21.39	38.5	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.19	21.04	38.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.42	21.27	38.5	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.38	22.23	38.5	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.40	22.25	38.5	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.93	21.78	38.5	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.54	21.39	38.5	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.36	21.21	38.5	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.38	21.23	38.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.33	21.18	38.5	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.46	22.31	38.5	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.68	22.53	38.5	PASS

Band5	10MHz	16QAM	20600	1RB#49	22.49	22.34	38.5	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.31	21.16	38.5	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.31	21.16	38.5	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.51	21.36	38.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.42	21.27	38.5	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,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

c, Antenna gain of LTE Band 5 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
Band5	1.4MHz	QPSK	20407	1RB#0	3.28	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	4.52	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.55	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.65	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.26	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.43	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.17	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.45	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.37	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.49	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.22	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.24	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.40	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.53	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.45	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.76	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.32	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.44	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.23	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.41	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.35	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.18	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.28	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	3.32	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.50	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.41	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.68	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.27	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.40	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	4.24	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.33	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.08	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.51	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.08	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.24	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	3.42	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.63	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.29	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.85	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.51	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.55	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.24	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.46	13	PASS



Band5	10MHz	16QAM	20525	1RB#0	4.10	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.65	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.42	13	PASS

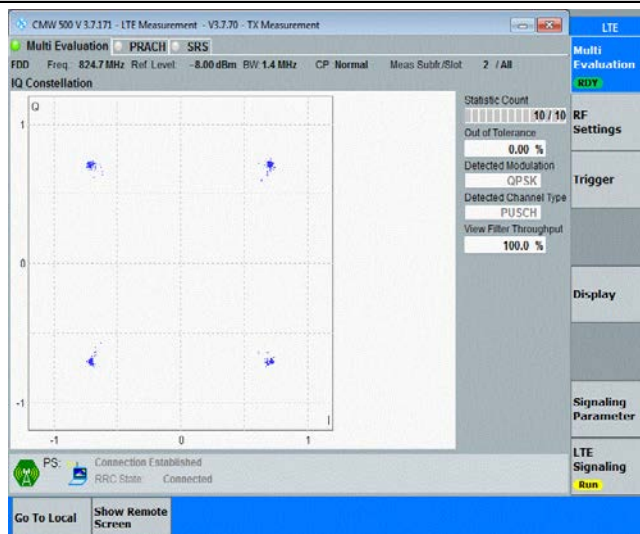
Appendix 3: Modulation Characteristics

Test Result

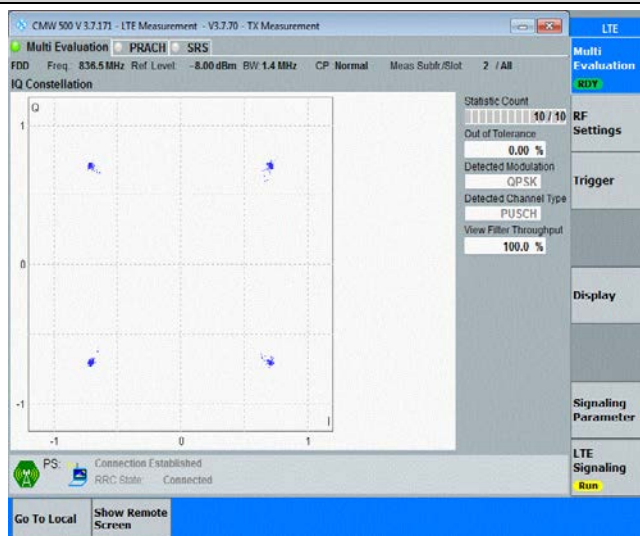
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20450	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20600	50RB#0	PASS	PASS

Test Graphs

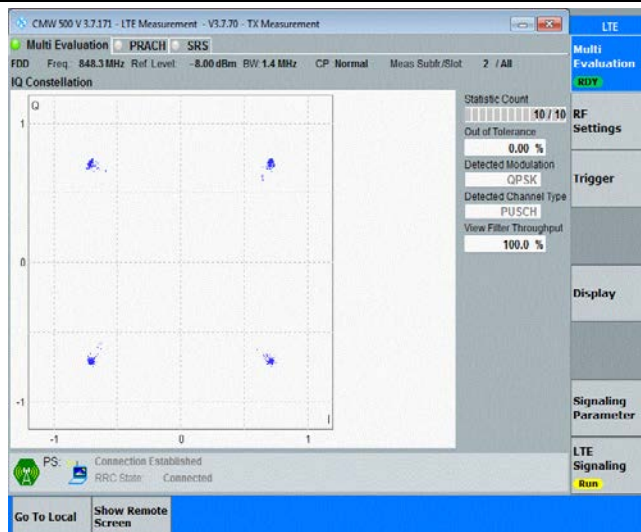
Band5-1.4MHz-QPSK-20407-6RB#0



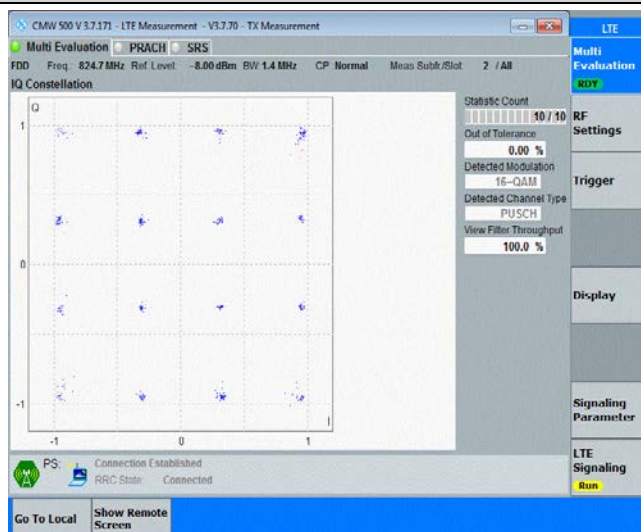
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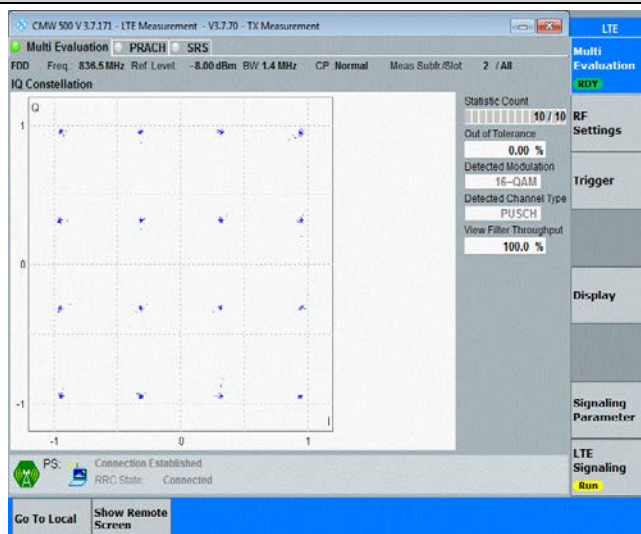
Band5-1.4MHz-QPSK-20643-6RB#0



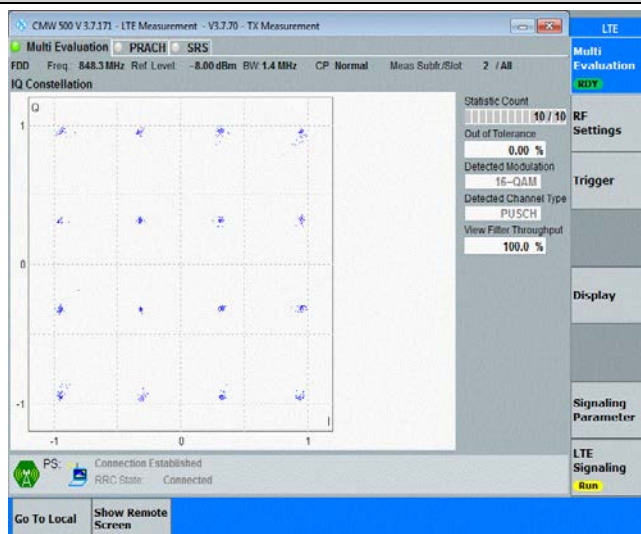
Band5-1.4MHz-16QAM-20407-6RB#0



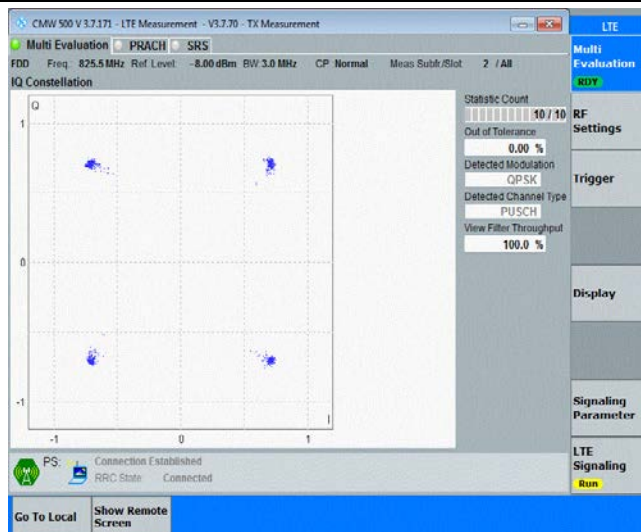
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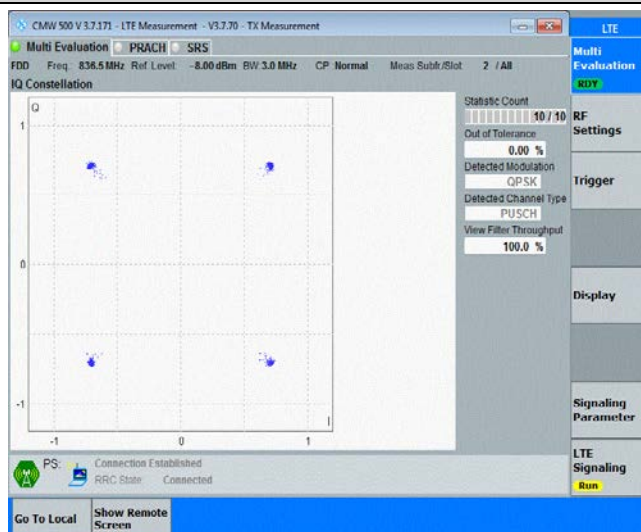
Band5-1.4MHz-16QAM-20643-6RB#0



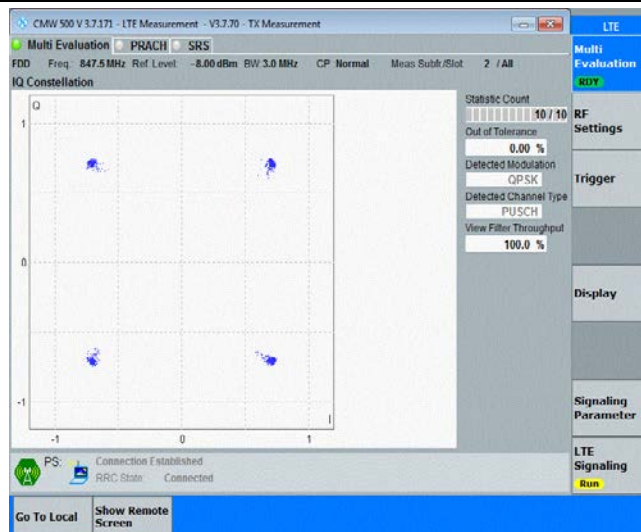
Band5-3MHz-QPSK-20415-15RB#0



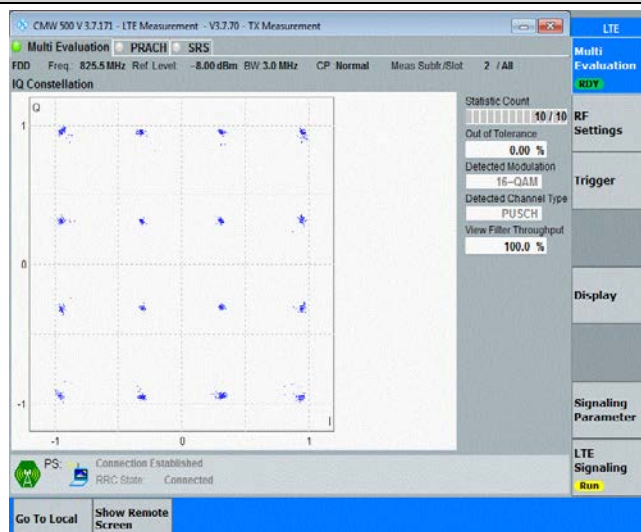
Band5-3MHz-QPSK-20525-15RB#0



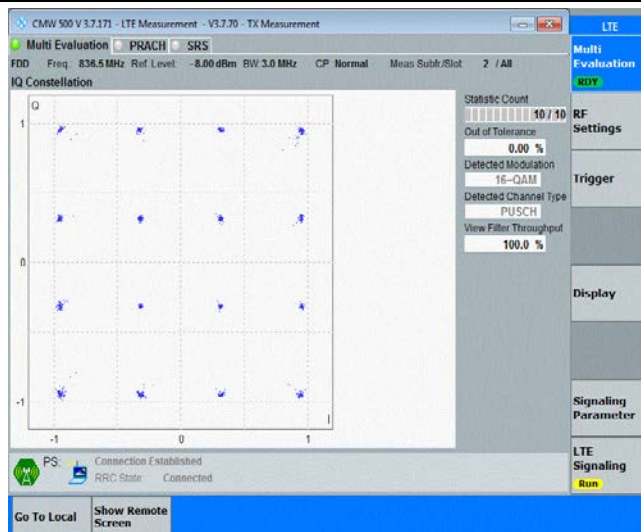
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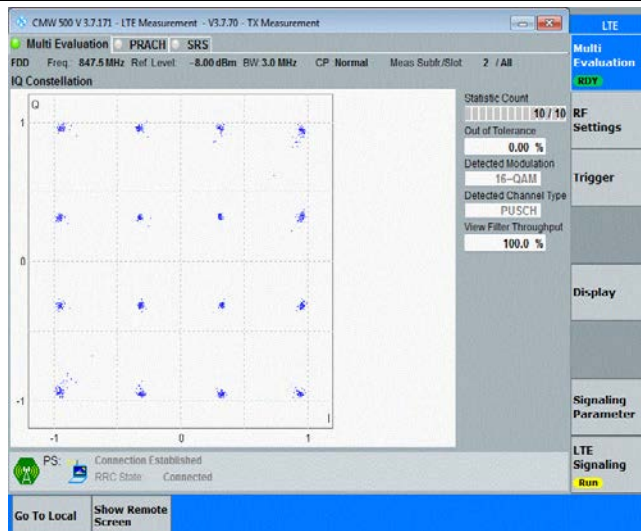
Band5-3MHz-16QAM-20415-15RB#0



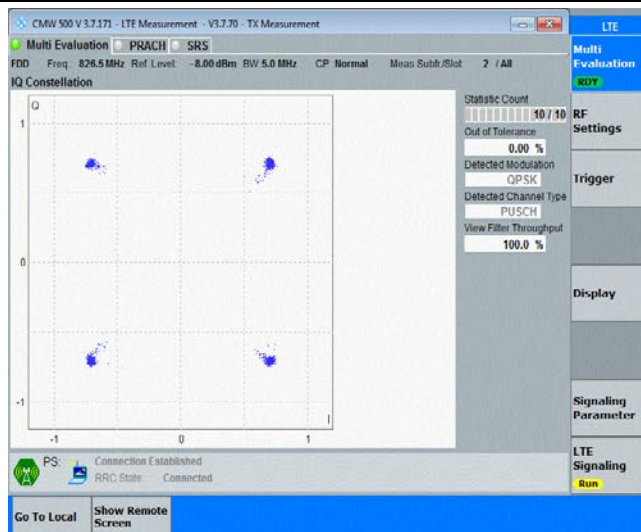
Band5-3MHz-16QAM-20525-15RB#0



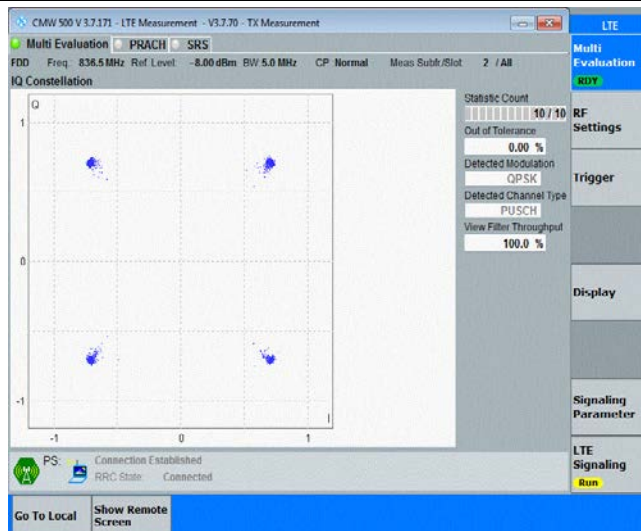
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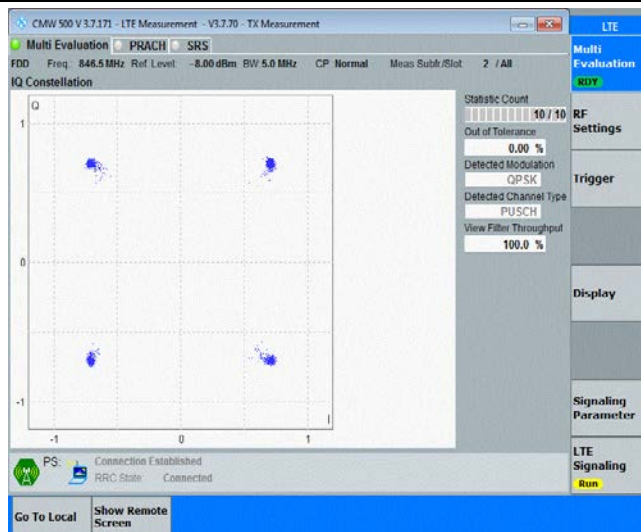
Band5-5MHz-QPSK-20425-25RB#0



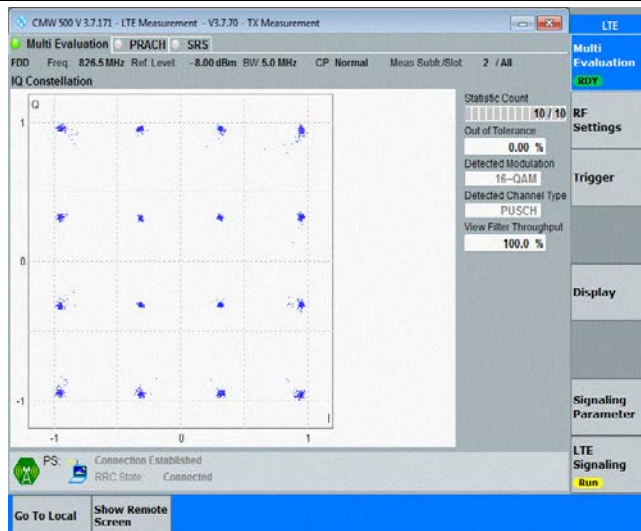
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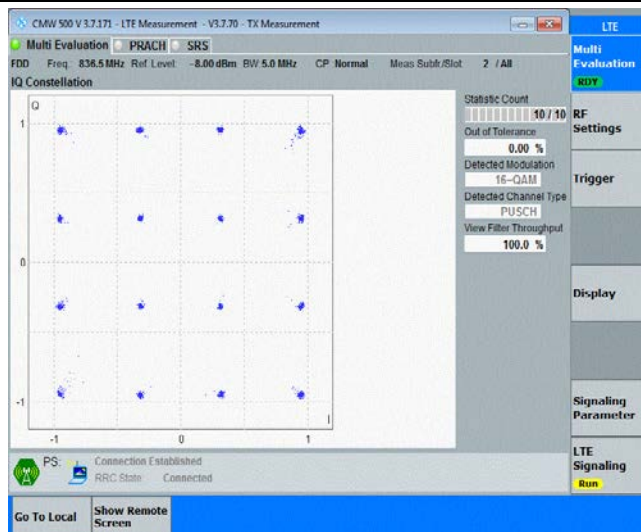
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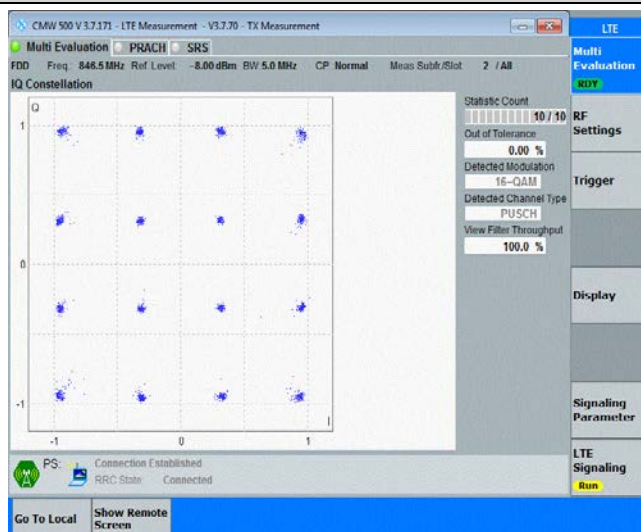
Band5-5MHz-16QAM-20425-25RB#0



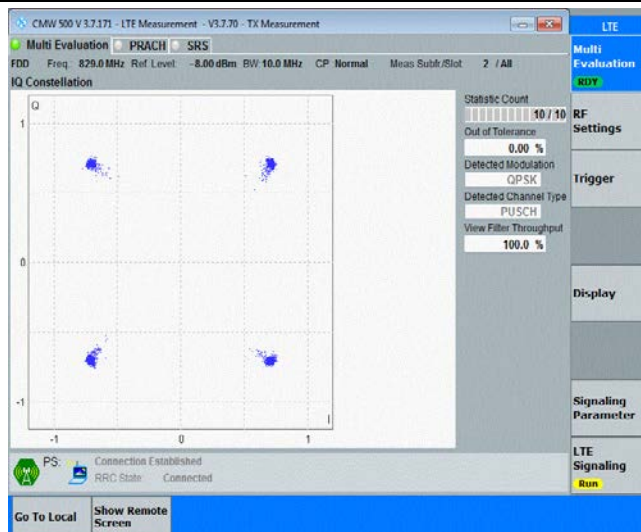
Band5-5MHz-16QAM-20525-25RB#0



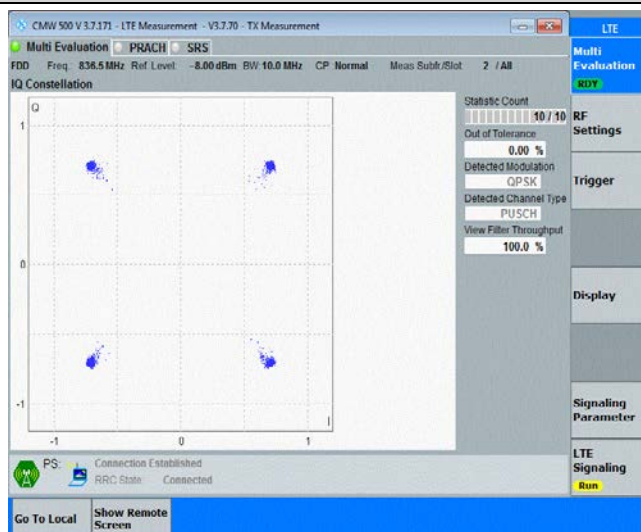
Band5-5MHz-16QAM-20625-25RB#0



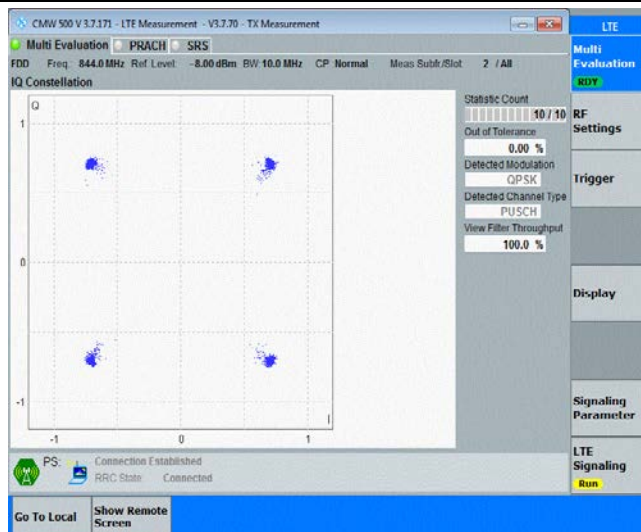
Band5-10MHz-QPSK-20450-50RB#0



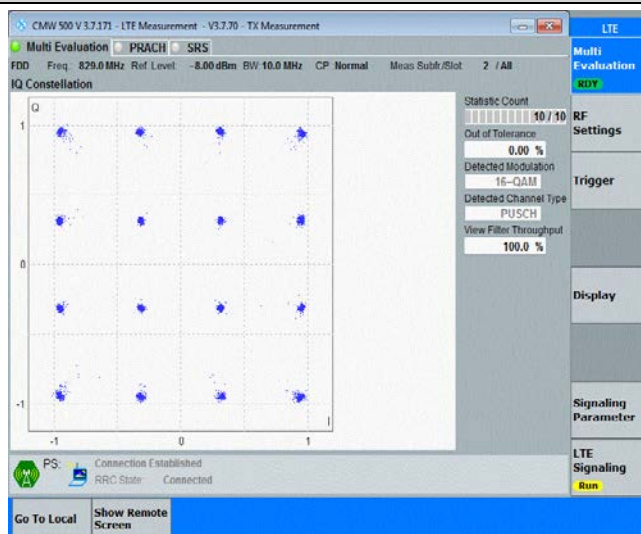
Band5-10MHz-QPSK-20525-50RB#0



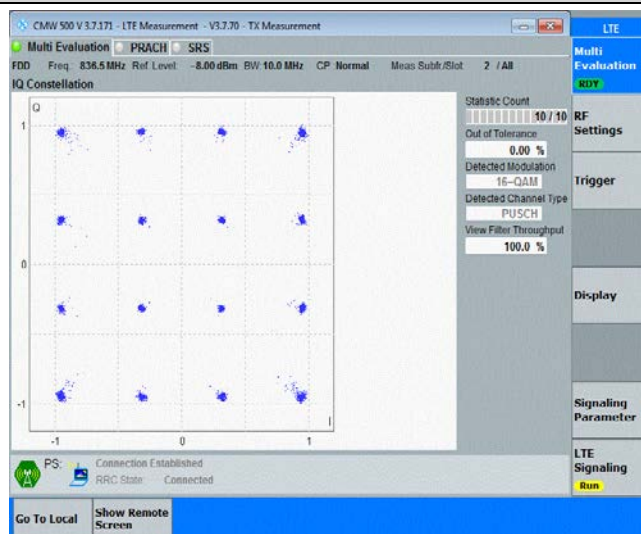
Band5-10MHz-QPSK-20600-50RB#0



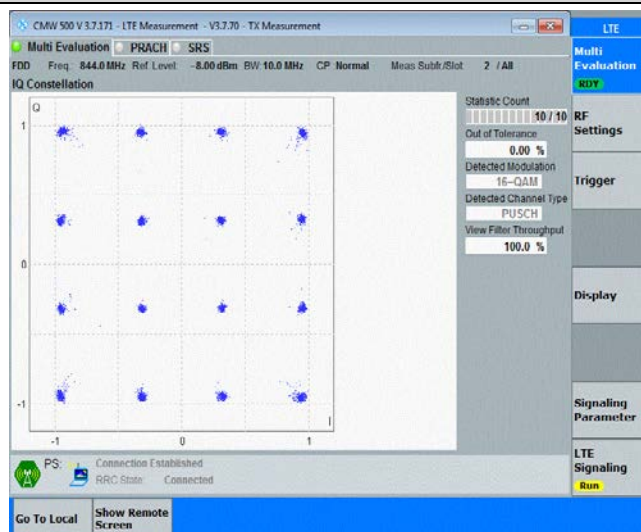
Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



Appendix 4: Bandwidth

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0921	1.254	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0892	1.259	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0927	1.271	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0902	1.260	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0881	1.241	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0896	1.273	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6990	2.932	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6951	2.905	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6950	2.914	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6900	2.925	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6897	2.930	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6945	2.901	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4947	4.904	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4860	4.870	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4944	4.866	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4977	4.871	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4936	4.898	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4965	4.860	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9567	9.551	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9820	9.575	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9391	9.560	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9313	9.530	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9818	9.543	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9349	9.524	PASS

Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



Band5-1.4MHz-QPSK-20643-6RB#0



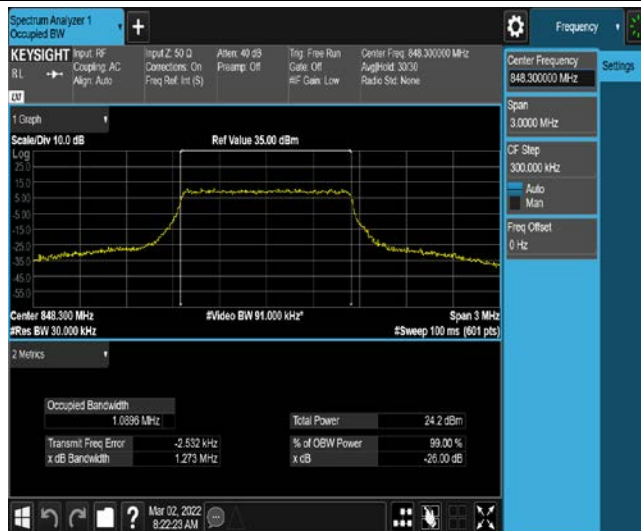
Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0



Band5-1.4MHz-16QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-QPSK-20635-15RB#0



Band5-3MHz-16QAM-20415-15RB#0



Band5-3MHz-16QAM-20525-15RB#0



Band5-3MHz-16QAM-20635-15RB#0



Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20525-25RB#0



Band5-5MHz-QPSK-20625-25RB#0



Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20525-25RB#0



Band5-5MHz-16QAM-20625-25RB#0



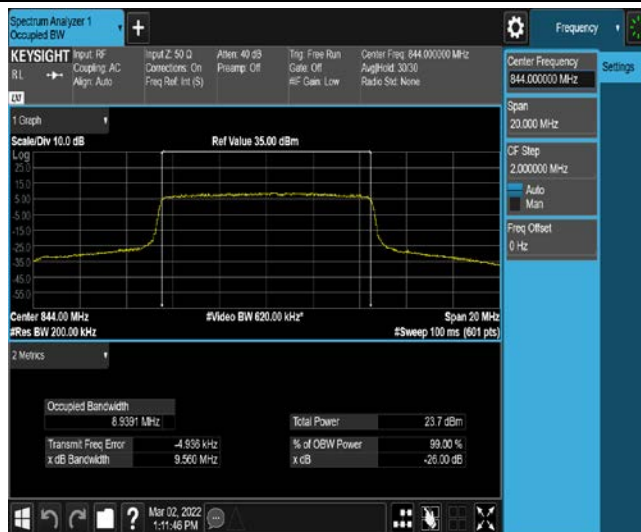
Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



Appendix 5: Band Edges Compliance

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-15.35	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-37.59	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-20.70	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-41.23	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-16.18	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-20.99	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-16.56	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-38.71	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-22.27	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-41.55	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-18.64	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-23.72	PASS
Band5	3MHz	QPSK	20415	1RB#0	-13.52	PASS
Band5	3MHz	QPSK	20415	1RB#14	-42.42	PASS
Band5	3MHz	QPSK	20415	15RB#0	-19.62	PASS
Band5	3MHz	QPSK	20635	1RB#0	-42.96	PASS
Band5	3MHz	QPSK	20635	1RB#14	-13.66	PASS
Band5	3MHz	QPSK	20635	15RB#0	-21.44	PASS
Band5	3MHz	16QAM	20415	1RB#0	-13.25	PASS
Band5	3MHz	16QAM	20415	1RB#14	-42.17	PASS
Band5	3MHz	16QAM	20415	15RB#0	-22.39	PASS
Band5	3MHz	16QAM	20635	1RB#0	-43.70	PASS
Band5	3MHz	16QAM	20635	1RB#14	-15.48	PASS
Band5	3MHz	16QAM	20635	15RB#0	-21.66	PASS
Band5	5MHz	QPSK	20425	1RB#0	-15.00	PASS
Band5	5MHz	QPSK	20425	1RB#24	-48.44	PASS
Band5	5MHz	QPSK	20425	25RB#0	-20.78	PASS
Band5	5MHz	QPSK	20625	1RB#0	-49.31	PASS
Band5	5MHz	QPSK	20625	1RB#24	-14.16	PASS
Band5	5MHz	QPSK	20625	25RB#0	-20.82	PASS
Band5	5MHz	16QAM	20425	1RB#0	-16.82	PASS
Band5	5MHz	16QAM	20425	1RB#24	-48.52	PASS
Band5	5MHz	16QAM	20425	25RB#0	-22.27	PASS
Band5	5MHz	16QAM	20625	1RB#0	-49.41	PASS
Band5	5MHz	16QAM	20625	1RB#24	-14.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	-21.81	PASS
Band5	10MHz	QPSK	20450	1RB#0	-17.94	PASS
Band5	10MHz	QPSK	20450	1RB#49	-41.50	PASS
Band5	10MHz	QPSK	20450	50RB#0	-22.80	PASS
Band5	10MHz	QPSK	20600	1RB#0	-42.88	PASS
Band5	10MHz	QPSK	20600	1RB#49	-21.32	PASS
Band5	10MHz	QPSK	20600	50RB#0	-22.97	PASS
Band5	10MHz	16QAM	20450	1RB#0	-18.44	PASS

Band5	10MHz	16QAM	20450	1RB#49	-40.40	PASS
Band5	10MHz	16QAM	20450	50RB#0	-25.12	PASS
Band5	10MHz	16QAM	20600	1RB#0	-42.31	PASS
Band5	10MHz	16QAM	20600	1RB#49	-21.05	PASS
Band5	10MHz	16QAM	20600	50RB#0	-25.56	PASS

Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-1RB#5



Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20643-1RB#0



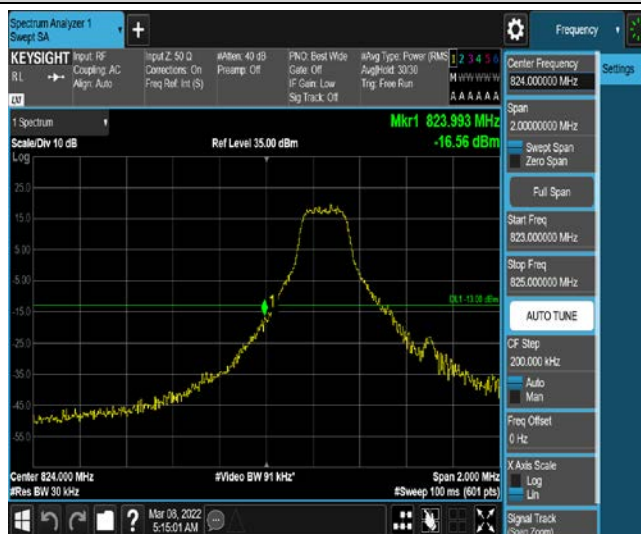
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Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-16QAM-20407-1RB#0



Band5-1.4MHz-16QAM-20407-1RB#5



Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20643-1RB#0



Band5-1.4MHz-16QAM-20643-1RB#5



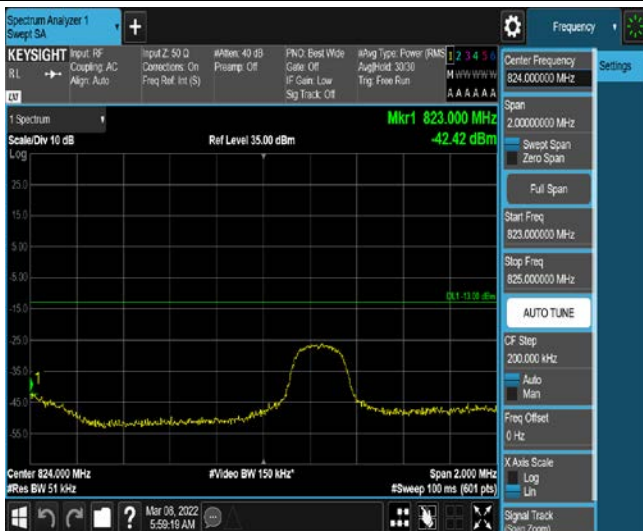
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Band5-3MHz-QPSK-20415-1RB#0



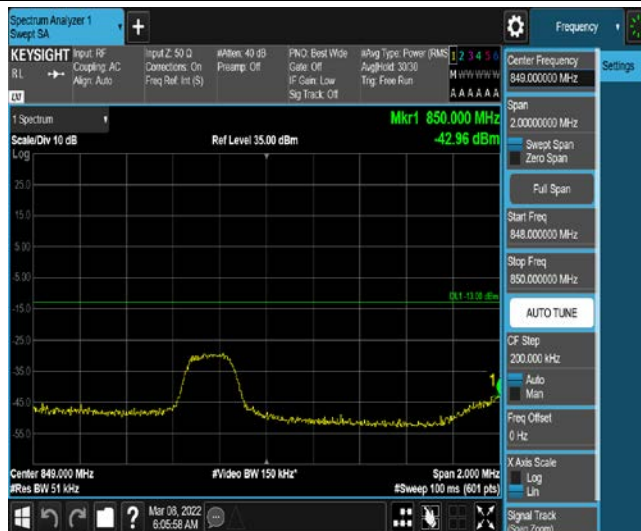
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Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20635-1RB#0



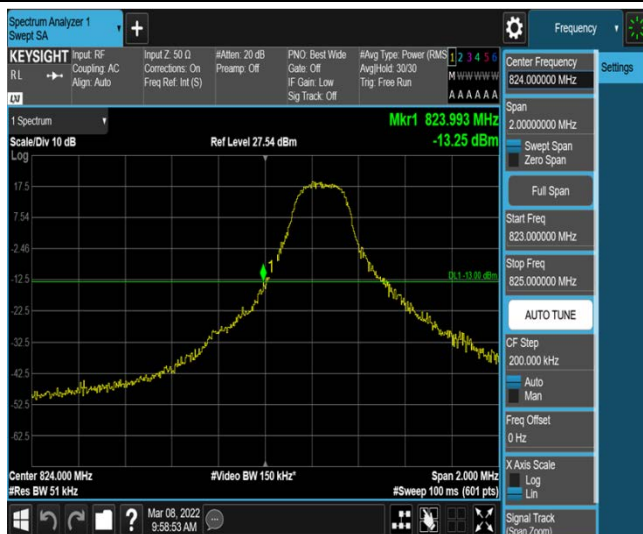
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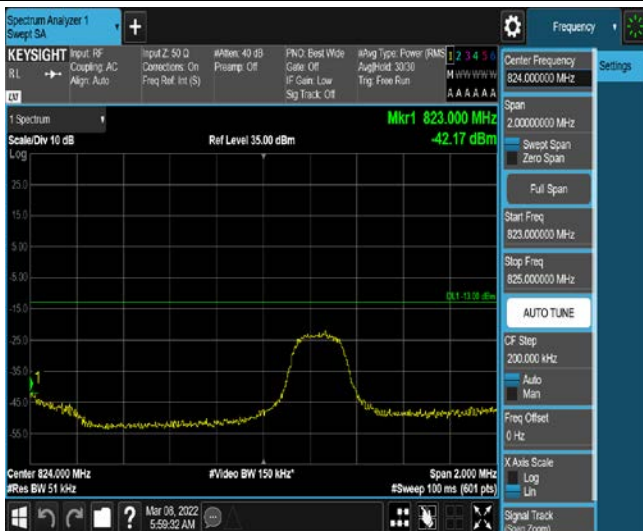
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Band5-3MHz-16QAM-20415-1RB#0



Band5-3MHz-16QAM-20415-1RB#14



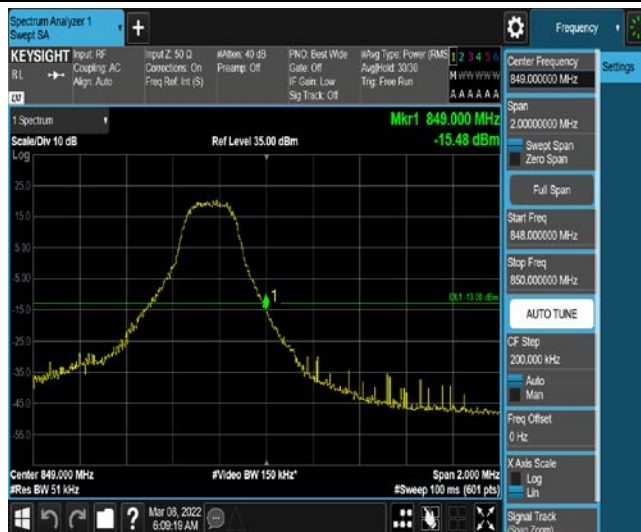
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Band5-3MHz-16QAM-20635-1RB#0



Band5-3MHz-16QAM-20635-1RB#14



Band5-3MHz-16QAM-20635-15RB#0



Band5-5MHz-QPSK-20425-1RB#0



Band5-5MHz-QPSK-20425-1RB#24



Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20625-1RB#0



Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0



Band5-5MHz-16QAM-20425-1RB#0



Band5-5MHz-16QAM-20425-1RB#24



Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20625-1RB#0



Band5-5MHz-16QAM-20625-1RB#24



Band5-5MHz-16QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-1RB#49



Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#0



Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-1RB#0



Band5-10MHz-16QAM-20450-1RB#49



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-1RB#0



Band5-10MHz-16QAM-20600-1RB#49



Band5-10MHz-16QAM-20600-50RB#0



Appendix 6: Spurious Emission at Antenna Terminals

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:30~1000MHz	-44.89	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:1000~10000MHz	-37.99	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-45.35	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-37.9	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:30~1000MHz	-44.89	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:1000~10000MHz	-36.73	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:30~1000MHz	-45.43	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:1000~10000MHz	-38.26	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-44.67	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-37.8	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:30~1000MHz	-44.44	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:1000~10000MHz	-38.52	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range1:30~1000MHz	-44.39	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range2:1000~10000MHz	-37.52	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-44.64	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-37.87	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range1:30~1000MHz	-44.67	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range2:1000~10000MHz	-38.07	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range1:30~1000MHz	-44.28	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range2:1000~10000MHz	-37.6	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-44.74	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-38	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range1:30~1000MHz	-45.7	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range2:1000~10000MHz	-38.39	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range1:30~1000MHz	-45.61	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range2:1000~10000MHz	-38.02	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-43.89	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-38.13	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range1:30~1000MHz	-44.78	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range2:1000~10000MHz	-37.22	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range1:30~1000MHz	-44.6	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range2:1000~10000MHz	-37.18	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-44.99	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-37.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range1:30~1000MHz	-43.82	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range2:1000~10000MHz	-38.01	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-45.22	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-37.58	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-45.18	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-37.82	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-45.66	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-38.26	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-44.66	PASS

Band5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-36.11	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-43.49	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-37.68	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:30~1000MHz	-45.18	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:1000~10000MHz	-37.77	PASS

Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-QPSK-20407-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz



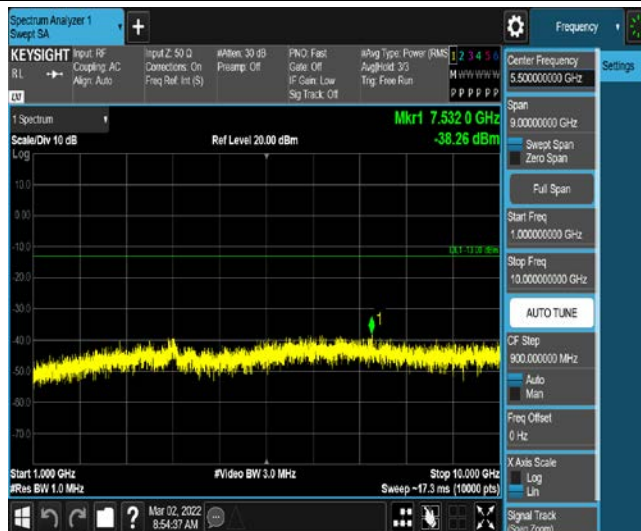
Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-16QAM-20407-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-16QAM-20407-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



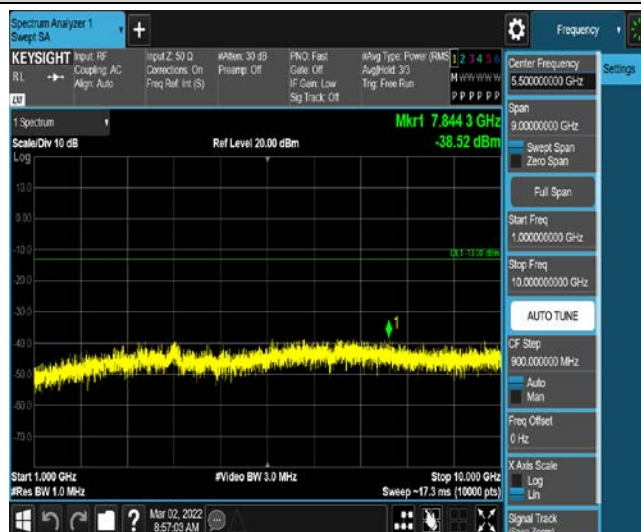
Band5-1.4MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-16QAM-20643-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-16QAM-20643-1RB#0-Range2:1000~10000MHz



Band5-3MHz-QPSK-20415-1RB#0-Range1:30~1000MHz



Band5-3MHz-QPSK-20415-1RB#0-Range2:1000~10000MHz



Band5-3MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Band5-3MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-3MHz-QPSK-20635-1RB#0-Range1:30~1000MHz



Band5-3MHz-QPSK-20635-1RB#0-Range2:1000~10000MHz

