

Appendix for LTE B4 test report

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Results:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.59	26.34	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.57	27.32	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.37	27.12	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.32	27.07	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.41	27.16	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.34	27.09	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.42	26.17	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.18	26.93	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.13	26.88	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.11	26.86	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.29	27.04	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.20	26.95	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.21	26.96	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.39	26.14	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.00	26.75	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.86	26.61	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.75	26.5	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.88	26.63	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.91	26.66	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.98	26.73	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.00	25.75	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.53	26.28	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.73	26.48	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.58	26.33	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.13	25.88	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.20	25.95	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.36	26.11	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.60	25.35	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.15	25.9	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.24	25.99	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.19	25.94	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.27	26.02	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.26	26.01	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	1.4MHz	16QAM	20175	3RB#3	22.27	26.02	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.18	24.93	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.06	25.81	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.00	25.75	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.14	25.89	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.78	25.53	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.79	25.54	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.92	25.67	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.27	25.02	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.21	26.96	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.36	27.11	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.34	27.09	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.42	26.17	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.42	26.17	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.44	26.19	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.43	26.18	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.44	27.19	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.20	26.95	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.19	26.94	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.43	26.18	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.37	26.12	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.32	26.07	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.40	26.15	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.83	26.58	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.81	26.56	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.92	26.67	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.06	25.81	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.02	25.77	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.99	25.74	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.08	25.83	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.40	26.15	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.37	26.12	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.22	25.97	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.59	25.34	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.51	25.26	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.55	25.3	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	3MHz	16QAM	19965	15RB#0	21.62	25.37	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.51	26.26	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.18	25.93	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.40	26.15	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.56	25.31	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.36	25.11	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.61	25.36	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.31	25.06	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.09	25.84	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.03	25.78	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.20	25.95	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.07	24.82	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.00	24.75	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.08	24.83	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.92	24.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.27	27.02	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.34	27.09	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.22	26.97	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.41	26.16	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.32	26.07	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.38	26.13	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.31	26.06	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.47	27.22	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.42	27.17	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.36	27.11	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.42	26.17	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.43	26.18	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.26	26.01	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.31	26.06	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.95	26.7	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.99	26.74	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.93	26.68	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.18	25.93	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.04	25.79	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.09	25.84	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.08	25.83	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	5MHz	16QAM	19975	1RB#0	22.26	26.01	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.28	26.03	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.23	25.98	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.49	25.24	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.49	25.24	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.47	25.22	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.41	25.16	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.45	26.2	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.40	26.15	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.24	25.99	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.51	25.26	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.41	25.16	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.52	25.27	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.39	25.14	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.95	25.7	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.97	25.72	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.12	25.87	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.21	24.96	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.07	24.82	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.10	24.85	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.28	25.03	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.24	26.99	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.41	27.16	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.26	27.01	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.40	26.15	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.41	26.16	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.50	26.25	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.31	26.06	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.38	27.13	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.67	27.42	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.05	26.8	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.46	26.21	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.47	26.22	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.37	26.12	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.36	26.11	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.10	26.85	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	10MHz	QPSK	20350	1RB#24	23.40	27.15	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.25	27	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.07	25.82	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.08	25.83	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.13	25.88	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.04	25.79	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.34	26.09	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.87	26.62	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.18	25.93	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.56	25.31	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.46	25.21	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.49	25.24	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.45	25.2	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.55	26.3	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.30	26.05	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.22	25.97	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.59	25.34	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.50	25.25	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.60	25.35	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.32	25.07	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.52	26.27	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.00	26.75	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.30	26.05	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.09	24.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.19	24.94	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.34	25.09	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.22	24.97	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.19	26.94	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.19	26.94	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.31	27.06	30	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.36	26.11	30	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.24	25.99	30	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.29	26.04	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.23	25.98	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.05	26.8	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.92	26.67	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	15MHz	QPSK	20175	1RB#74	22.96	26.71	30	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.26	26.01	30	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.26	26.01	30	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.27	26.02	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.29	26.04	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.27	27.02	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.21	26.96	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.24	26.99	30	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.19	25.94	30	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.21	25.96	30	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.12	25.87	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.13	25.88	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.37	26.12	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.71	26.46	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.21	25.96	30	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.31	26.06	30	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.26	26.01	30	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.31	26.06	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.15	24.9	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.06	25.81	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.02	25.77	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.15	25.9	30	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.26	26.01	30	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.27	26.02	30	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.28	26.03	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.34	25.09	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.34	26.09	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.59	26.34	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.19	25.94	30	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.20	25.95	30	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.11	25.86	30	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.13	25.88	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.25	25	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.12	26.87	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.52	27.27	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.03	26.78	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	20MHz	QPSK	20050	50RB#0	22.34	26.09	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.23	25.98	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.10	25.85	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.18	25.93	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.36	27.11	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.18	26.93	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.16	26.91	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.39	26.14	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.31	26.06	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.14	25.89	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.26	26.01	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.07	26.82	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.40	27.15	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.08	26.83	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.26	26.01	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.25	26	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.18	25.93	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.15	25.9	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.30	26.05	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.84	26.59	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.30	26.05	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.38	25.13	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.33	25.08	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.31	25.06	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.27	25.02	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.77	26.52	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.88	26.63	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.69	26.44	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.28	25.03	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.36	25.11	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.38	25.13	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.37	25.12	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.24	25.99	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.25	26	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.86	25.61	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.51	25.26	30	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP[dBm]	Limit[dBm]	Verdict
Band4	20MHz	16QAM	20300	50RB#25	21.41	25.16	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.17	24.92	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.24	24.99	30	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 4 is 3.75dBi.

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 B: Peak-to-Average Ratio

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.73	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.26	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.78	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.32	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.55	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.03	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.77	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.10	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.82	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.19	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.60	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.88	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.77	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.32	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.82	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.41	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	4.53	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.08	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.70	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.14	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.80	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.17	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.49	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.88	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.74	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.31	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.79	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.37	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	4.50	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.08	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.61	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.08	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.64	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.14	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	5.43	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.84	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	4.67	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.20	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	4.71	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.27	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	4.51	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.98	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.54	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.99	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.73	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.05	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	5.37	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.80	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.69	13	PASS

Total Quality. Assured.

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	15MHz	QPSK	20025	75RB#0	5.33	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.71	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.40	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.62	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.13	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.56	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.03	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.63	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.08	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	5.62	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.87	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.66	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	4.71	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.24	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.67	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.03	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.50	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.98	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.69	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.01	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.68	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.83	13	PASS

Appendix C: Modulation Characteristics

Test Plots

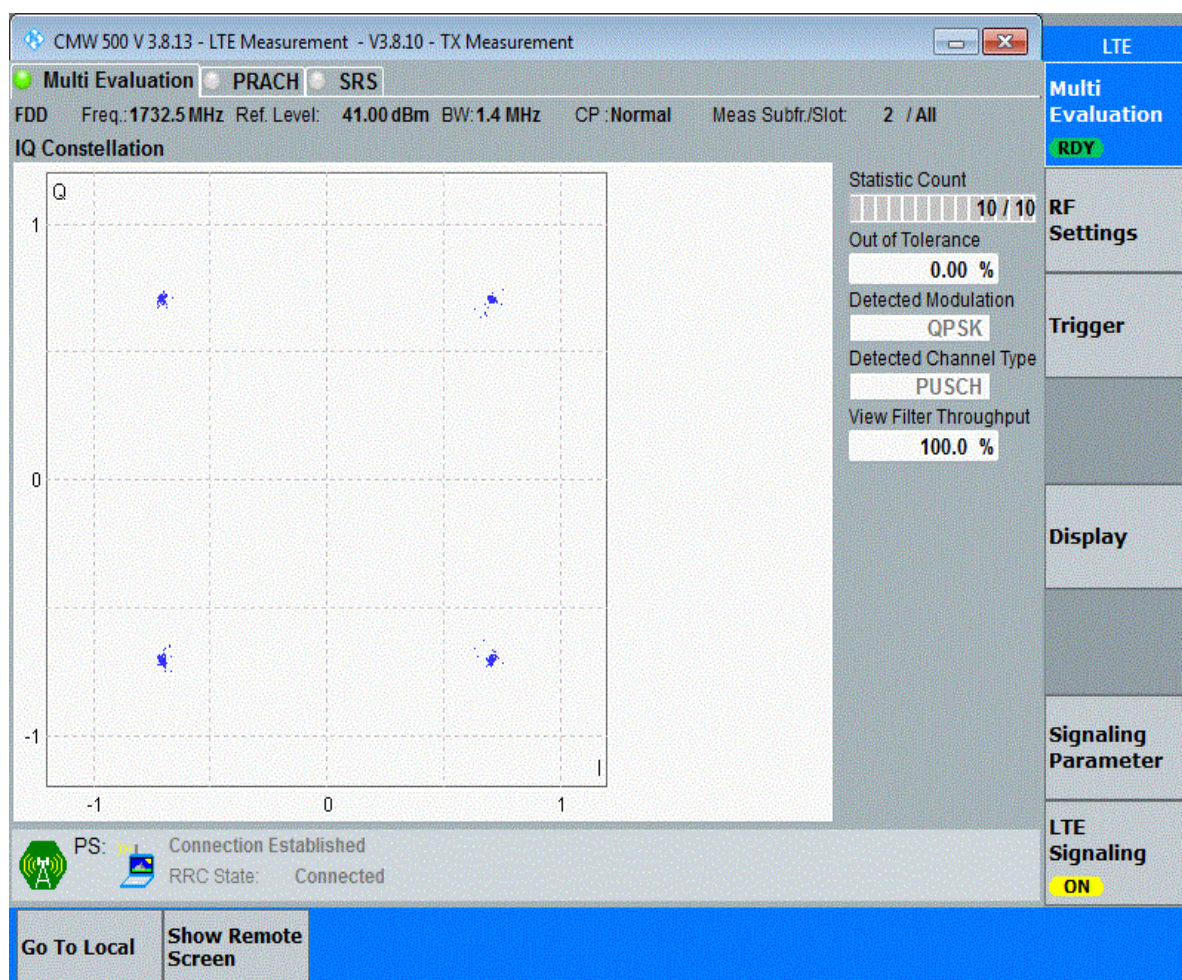
Test Band = BAND4

Test Mode = LTE/TM1

Test Bandwidth = 1.4MHz

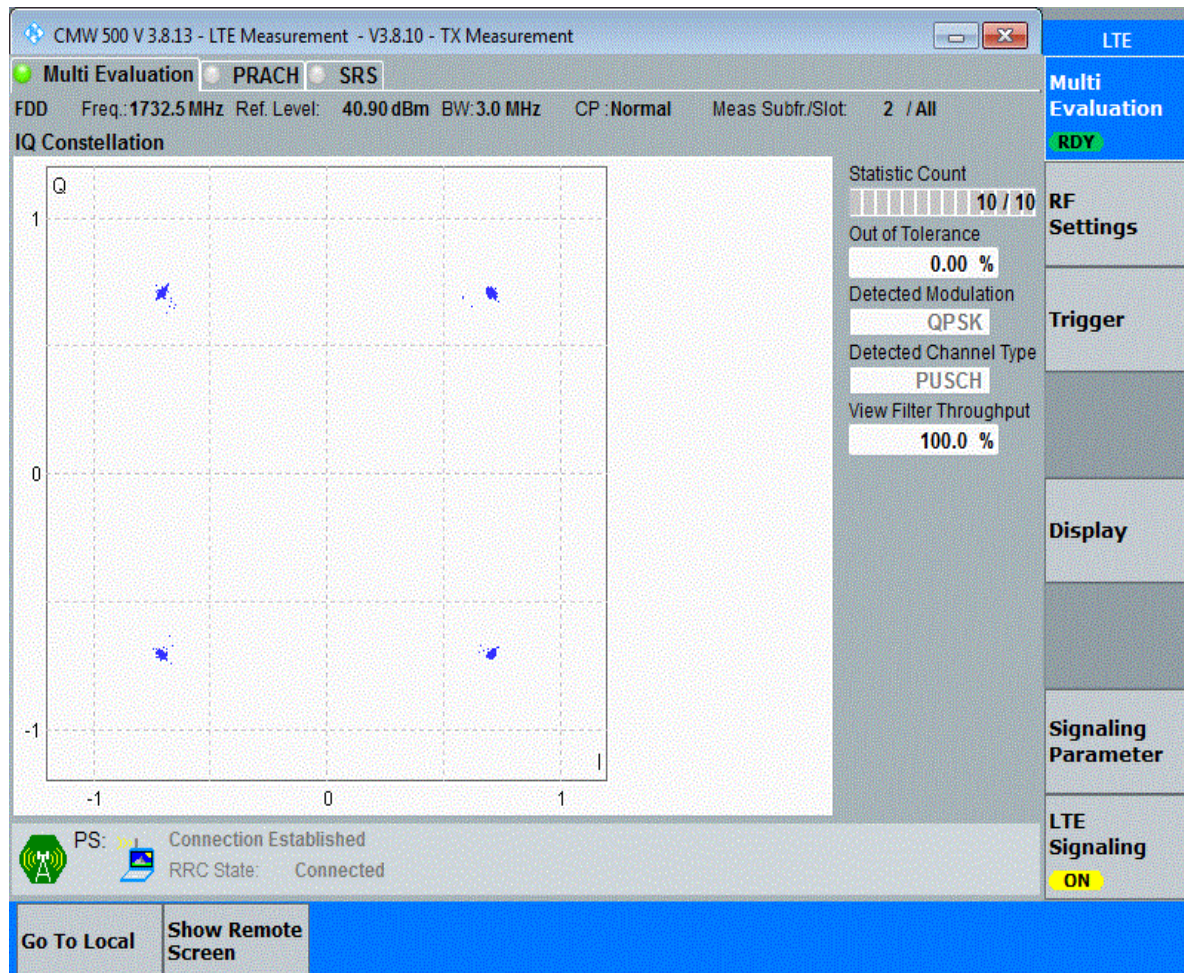
Test Channel = MCH

Test RB = RB6#0



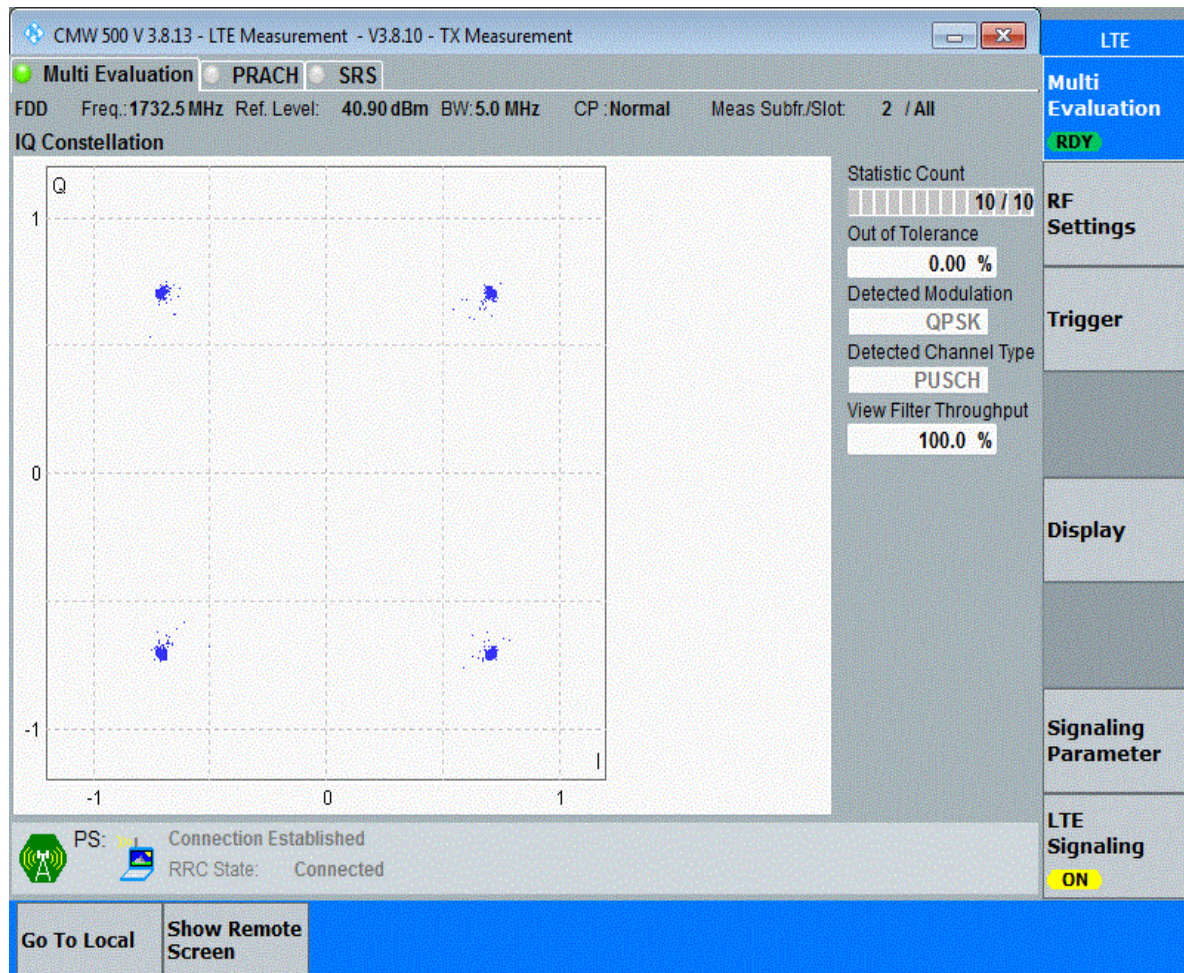
Test Channel = MCH

Test RB = RB15#0



Test Channel = MCH

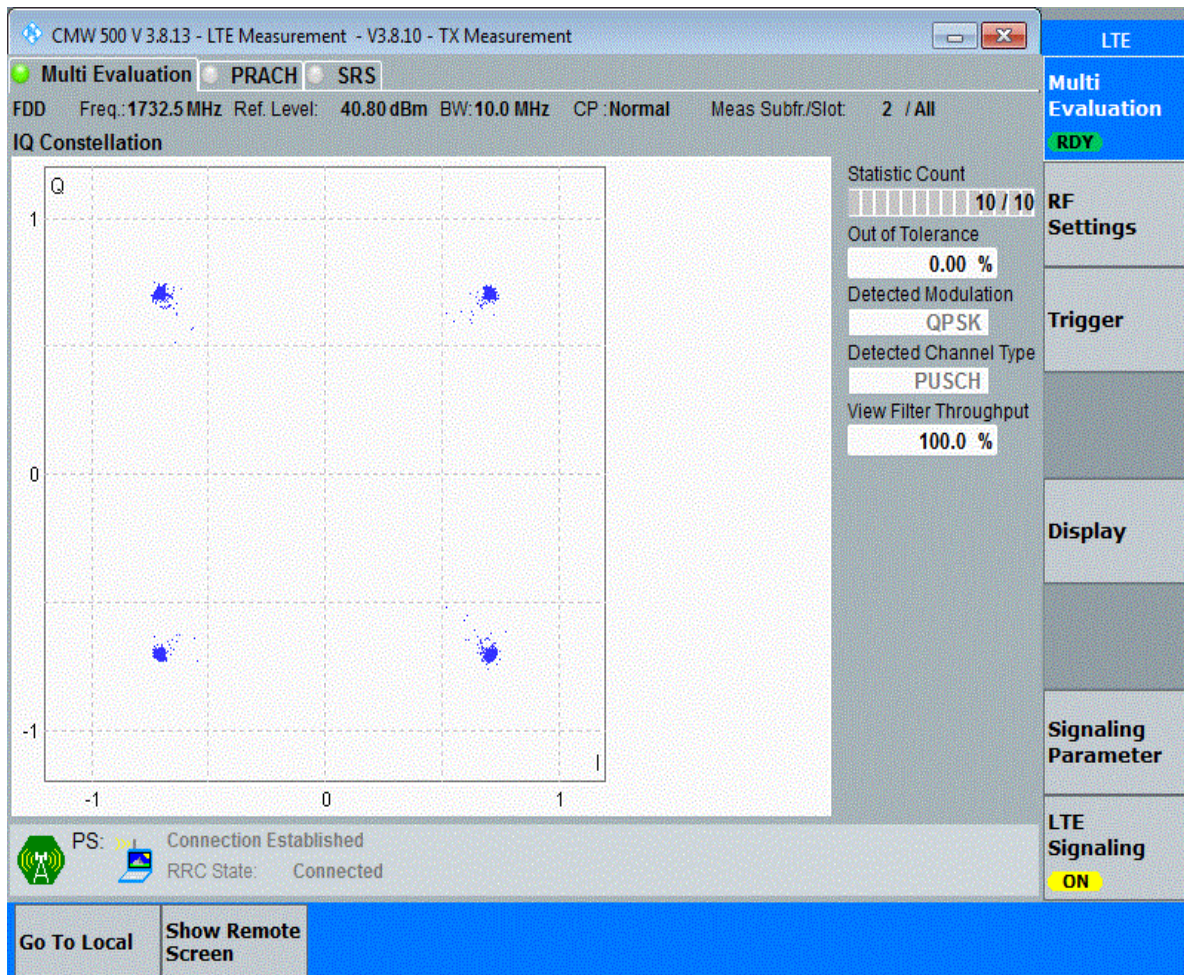
Test RB = RB25#0



Test Bandwidth = 10MHz

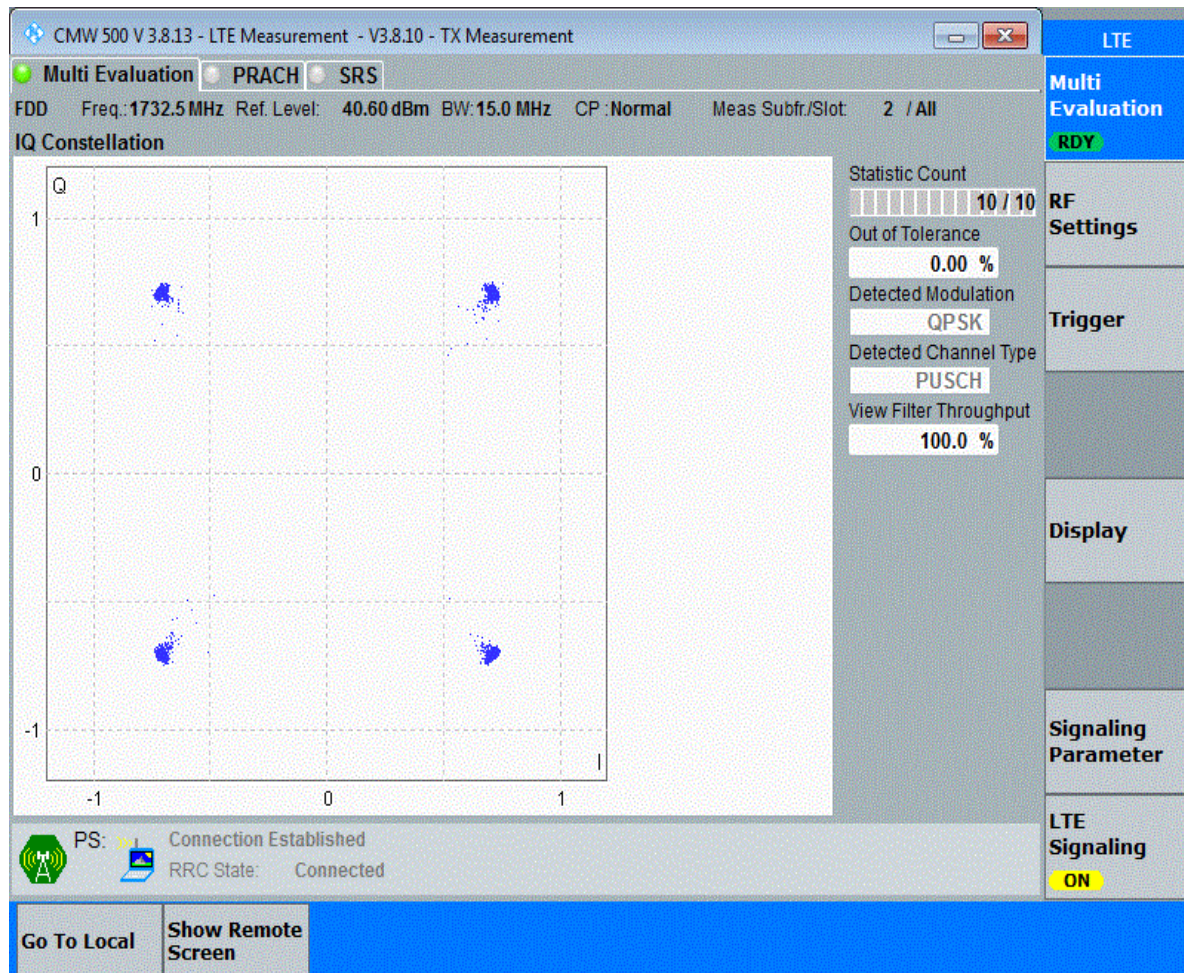
Test Channel = MCH

Test RB = RB50#0



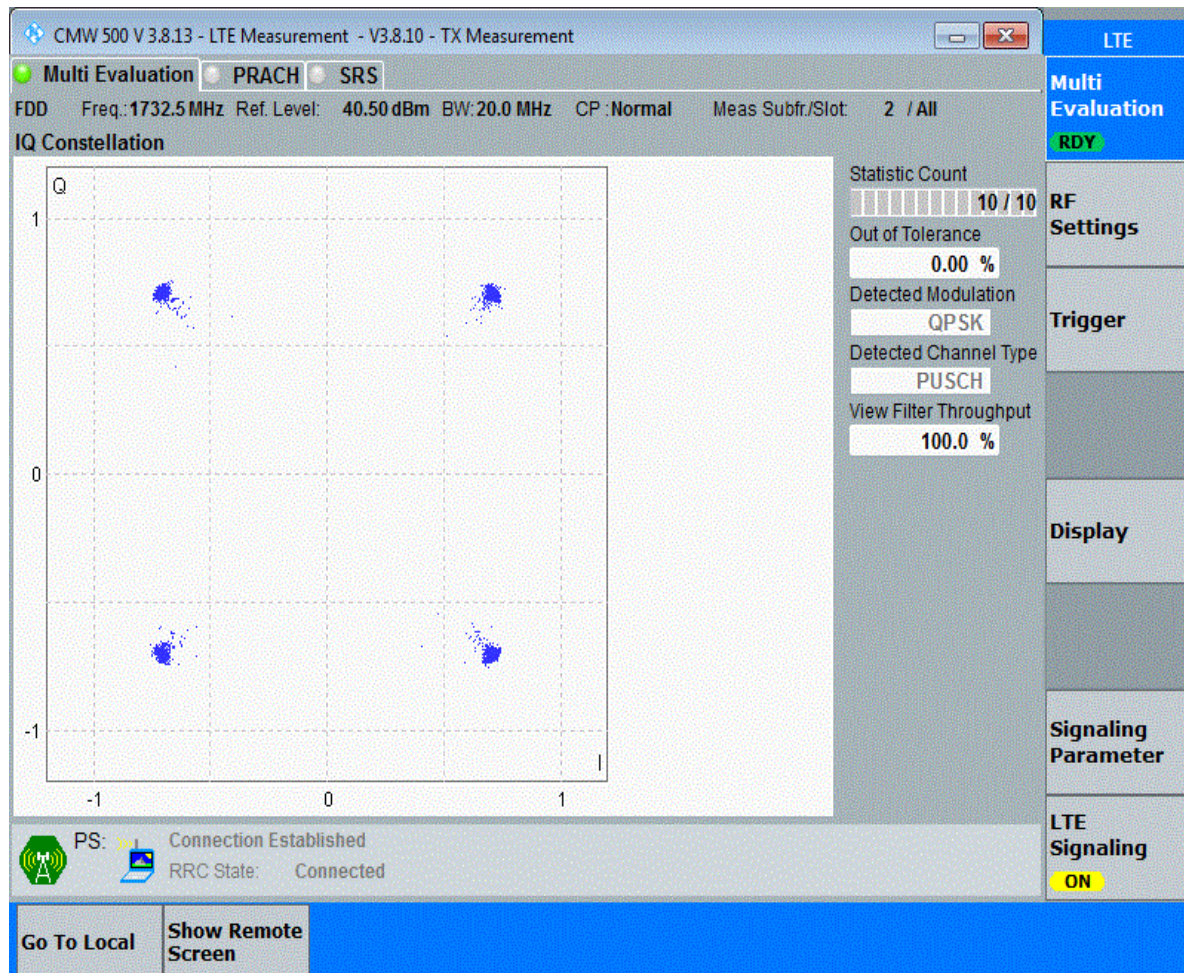
Test Channel = MCH

Test RB = RB75#0



Test Channel = MCH

Test RB = RB100#0

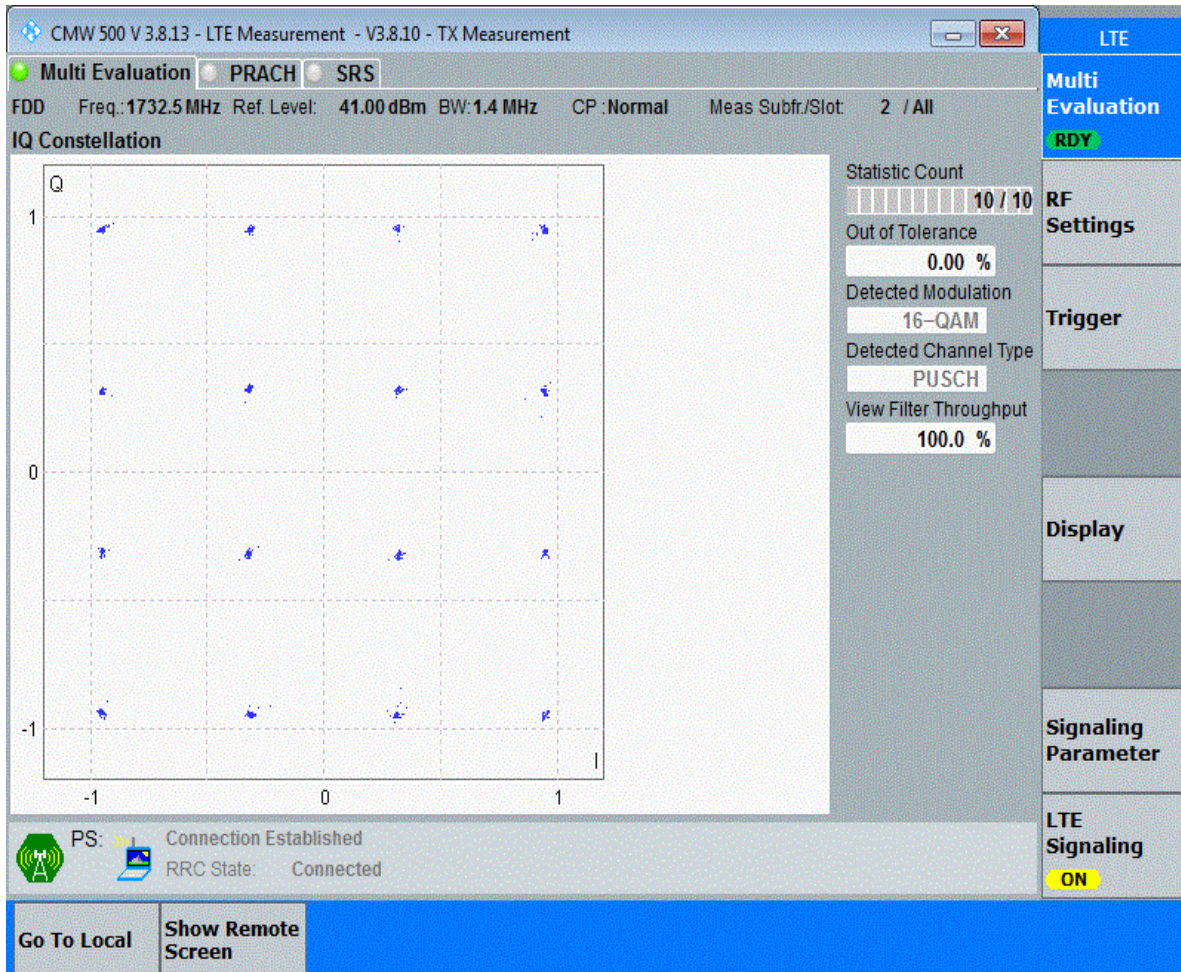


Test Mode = LTE/TM2

Bandwidth = 1.4MHz

Test Channel = MCH

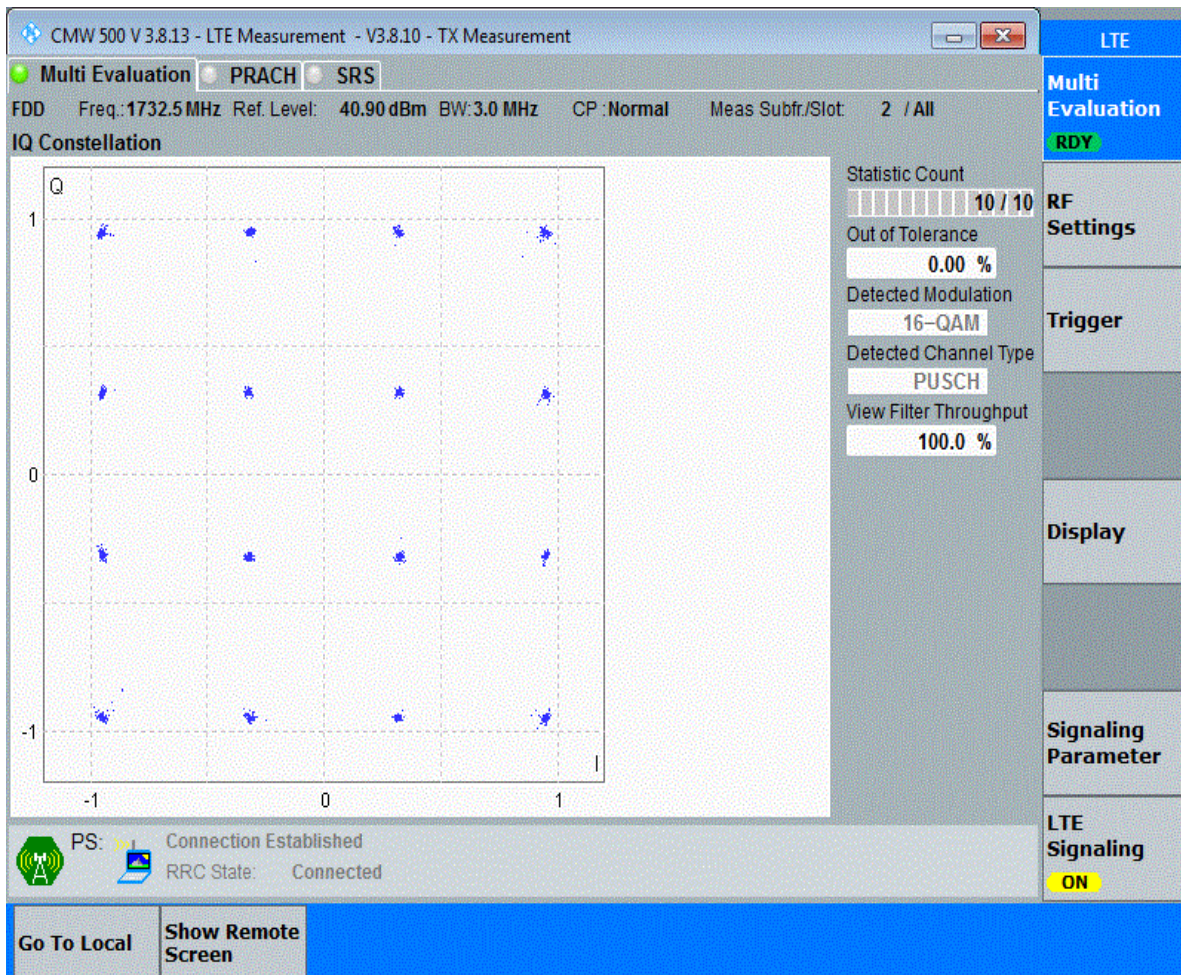
Test RB = RB6#0



Test Bandwidth = 3MHz

Test Channel = MCH

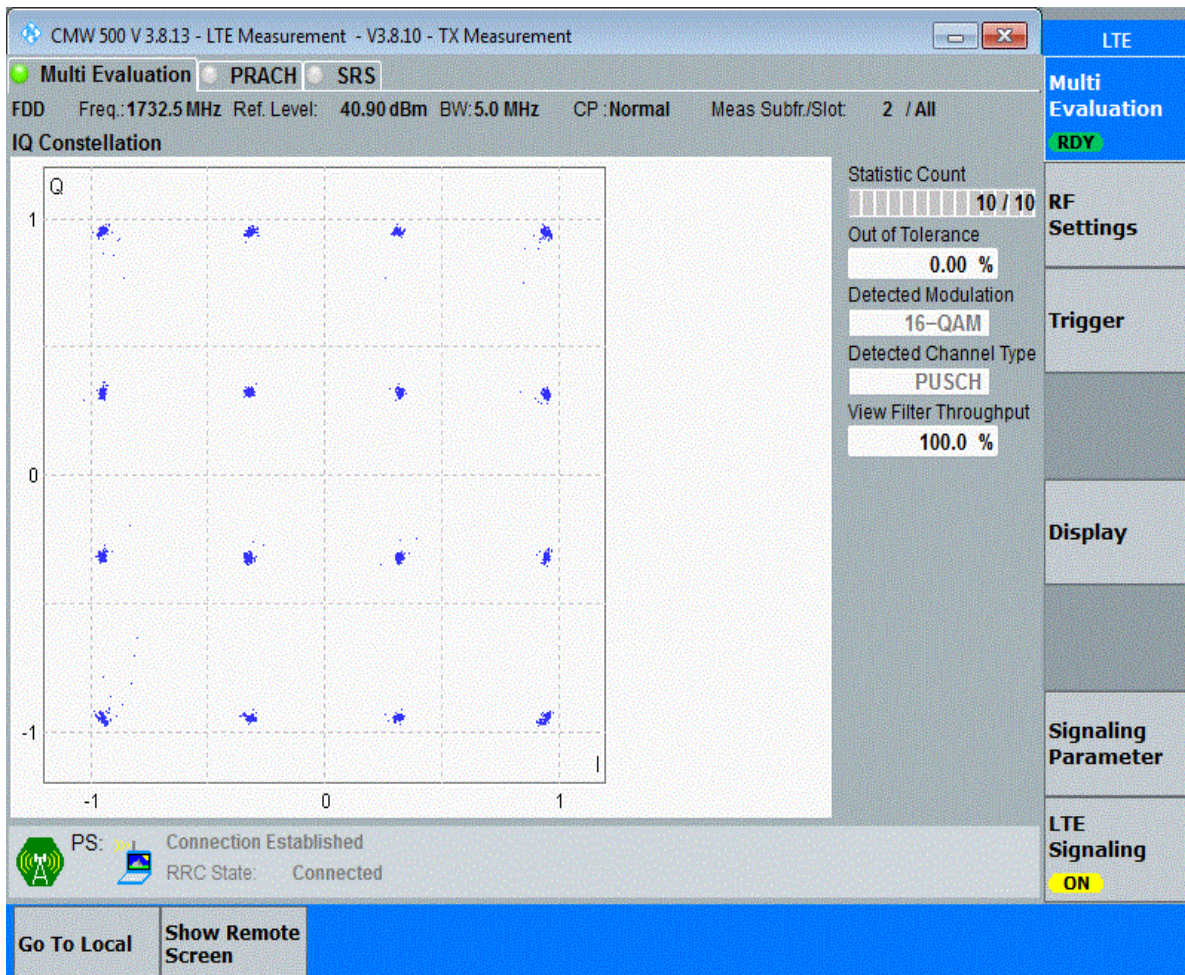
Test RB = RB15#0



Test Bandwidth = 5MHz

Test Channel = MCH

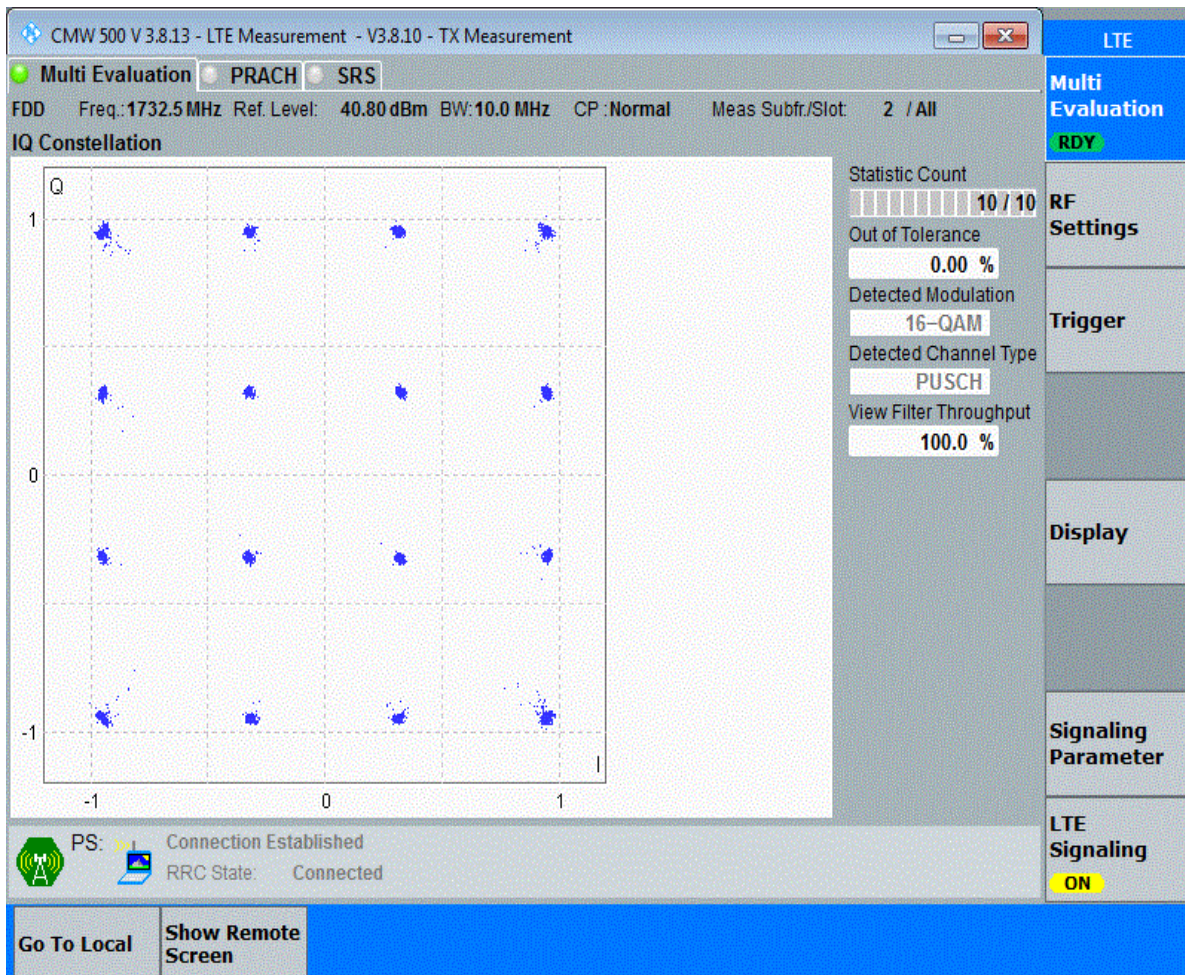
Test RB = RB25#0



Test Bandwidth = 10MHz

Test Channel = MCH

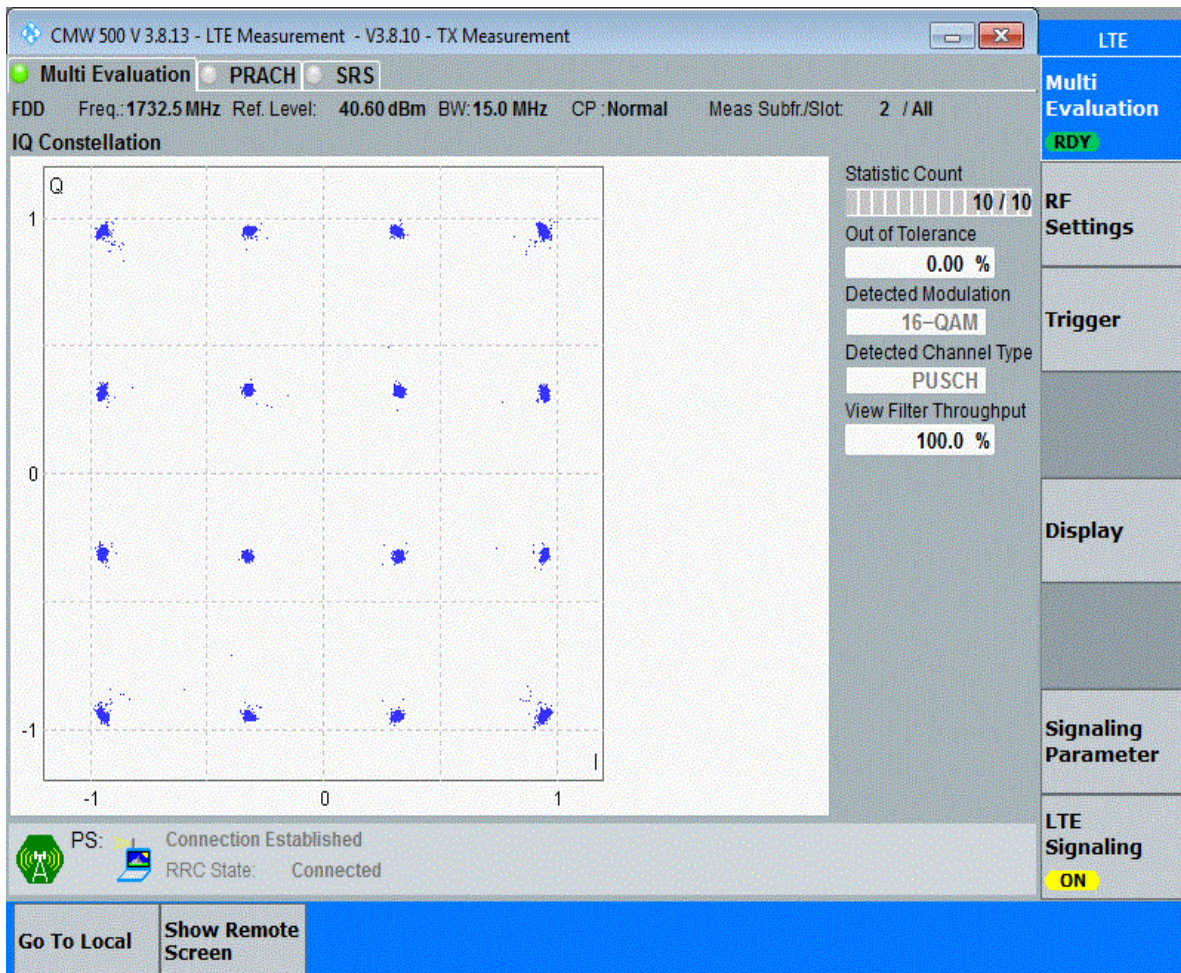
Test RB = RB50#0



Test Bandwidth = 15MHz

Test Channel = MCH

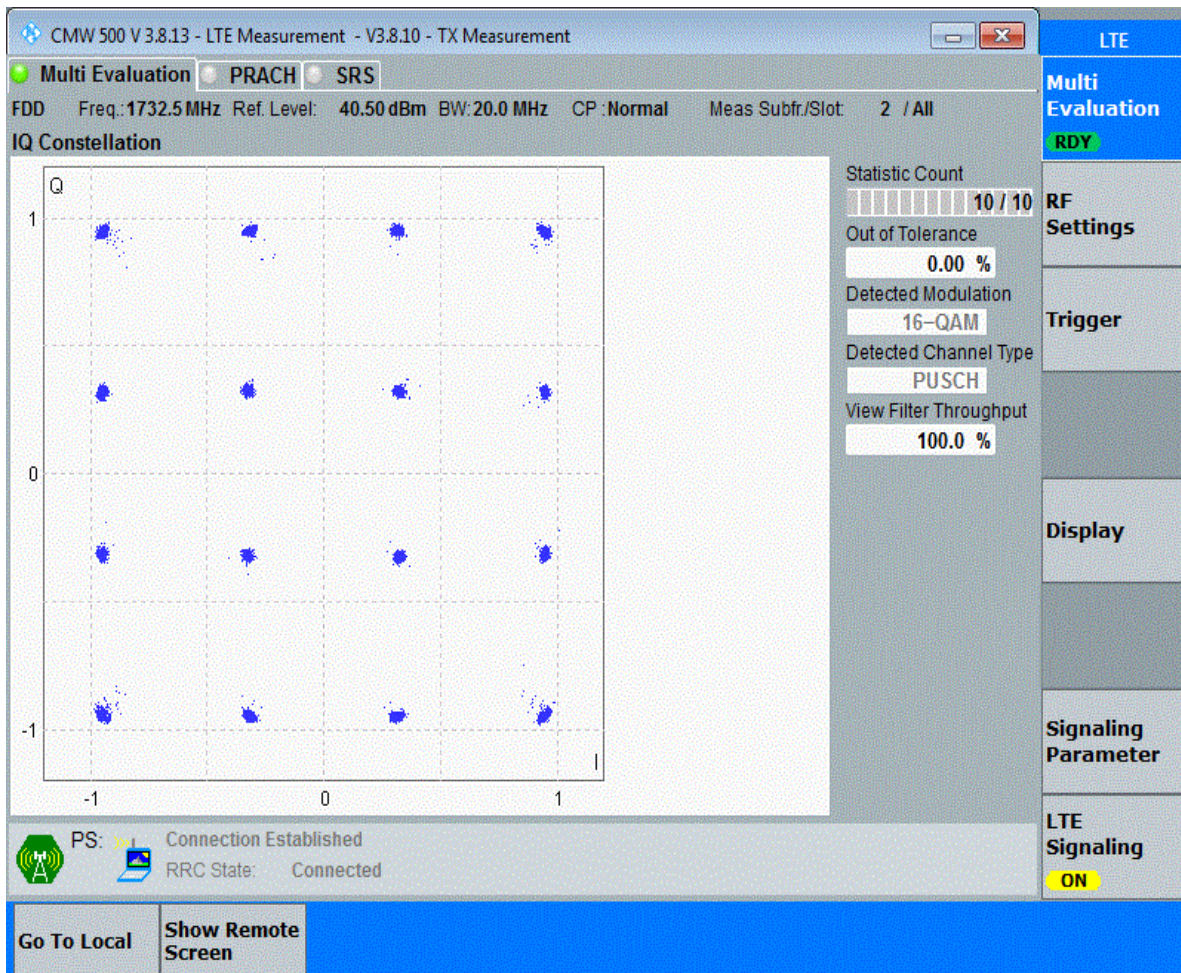
Test RB = RB75#0



Test Bandwidth = 20MHz

Test Channel = MCH

Test RB = RB100#0



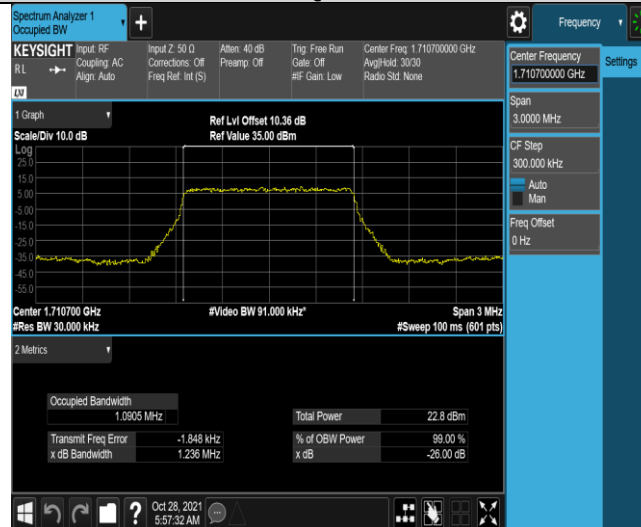
Appendix D: Bandwidth

Test Results

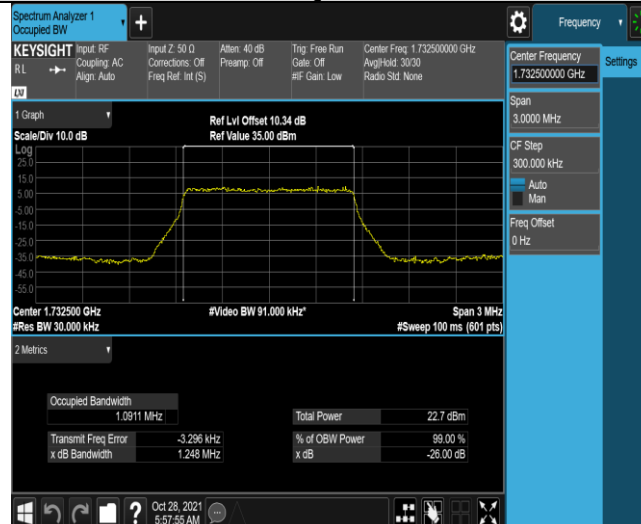
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0905	1.236	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0911	1.248	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0915	1.249	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0904	1.276	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0900	1.264	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0892	1.264	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6982	2.910	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7000	2.918	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6980	2.902	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6921	2.902	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6936	2.906	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6941	2.902	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4970	4.889	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4962	4.899	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4996	4.890	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5027	4.880	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5033	4.875	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5010	4.881	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9497	9.530	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9602	9.549	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9574	9.546	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9411	9.518	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9696	9.532	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9474	9.528	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.424	14.29	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.435	14.26	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.424	14.24	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.413	14.26	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.432	14.24	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.413	14.25	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.893	18.94	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.908	18.96	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.861	18.92	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.873	18.92	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.917	18.96	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.872	18.92	PASS

Test Plots

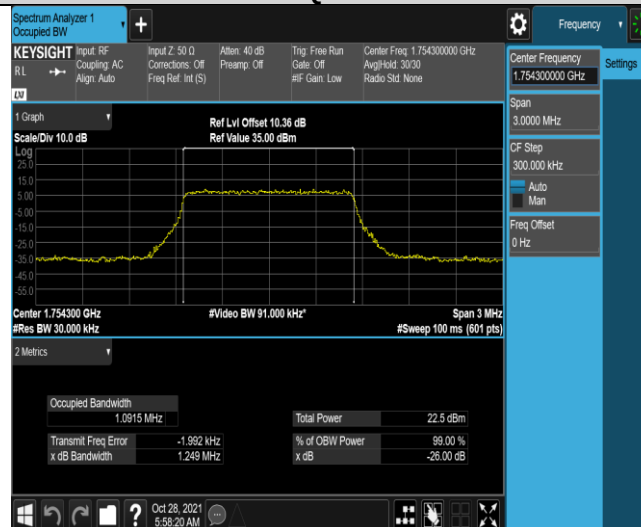
Band4-1.4MHz-QPSK-19957-6RB#0



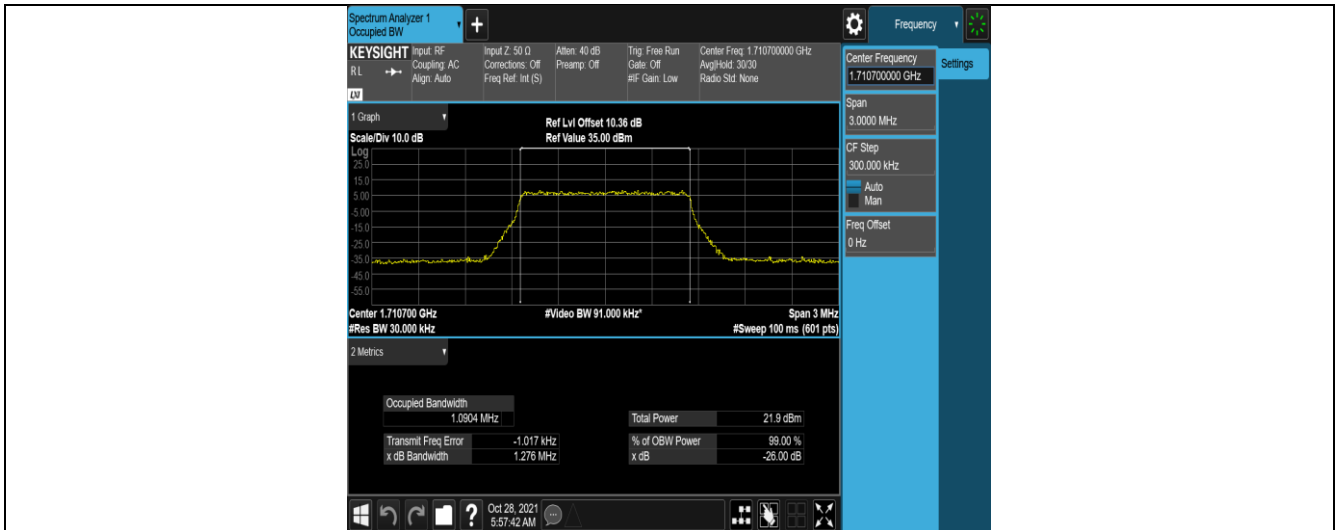
Band4-1.4MHz-QPSK-20175-6RB#0



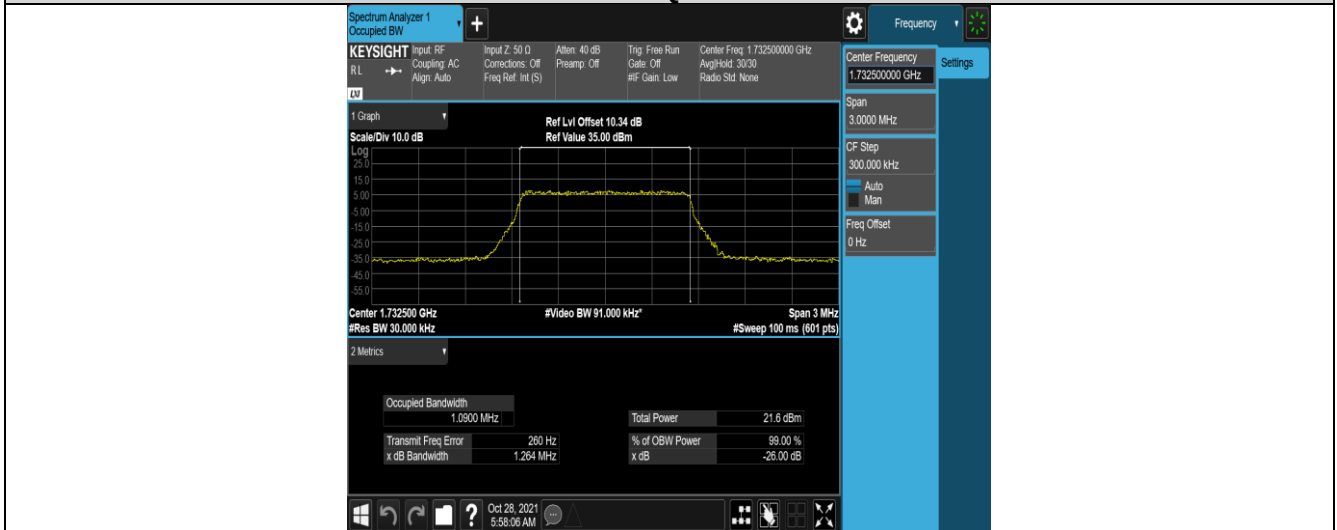
Band4-1.4MHz-QPSK-20393-6RB#0



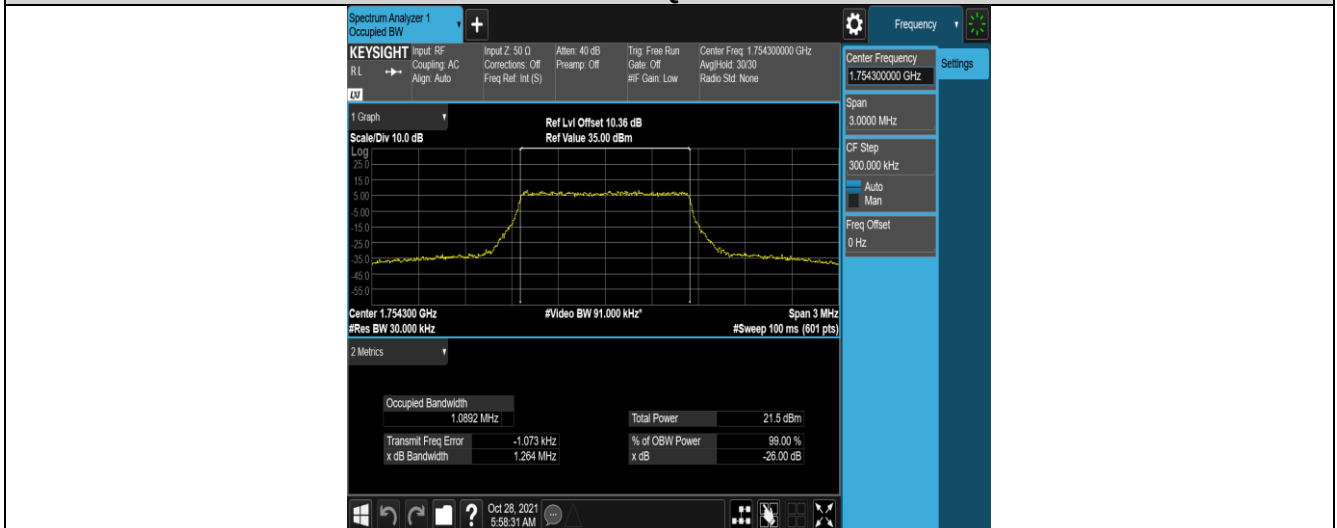
Band4-1.4MHz-16QAM-19957-6RB#0



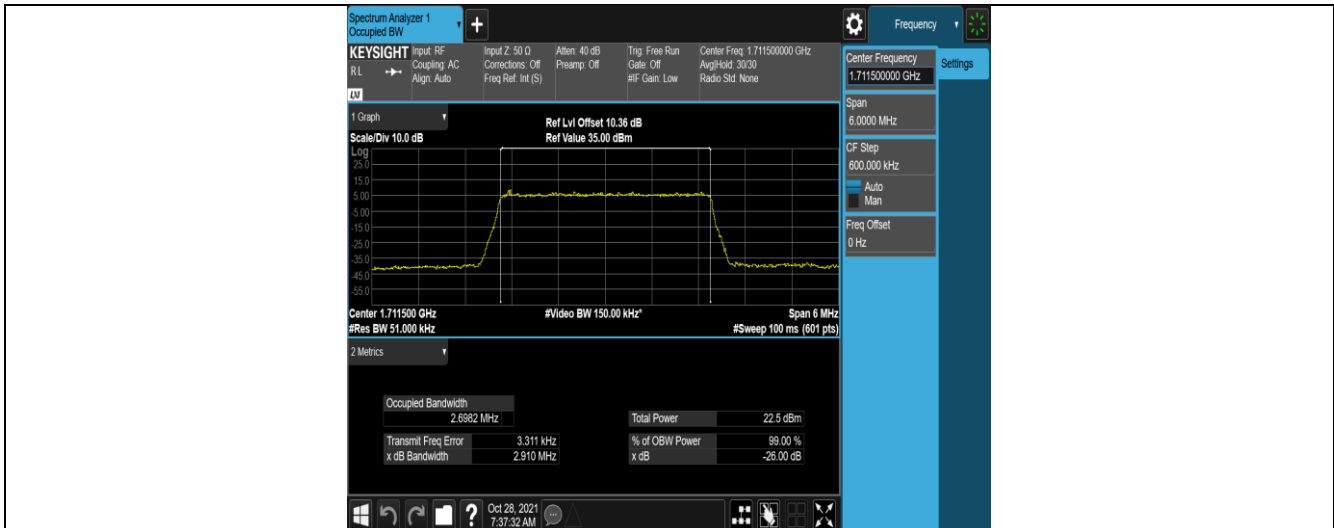
Band4-1.4MHz-16QAM-20175-6RB#0



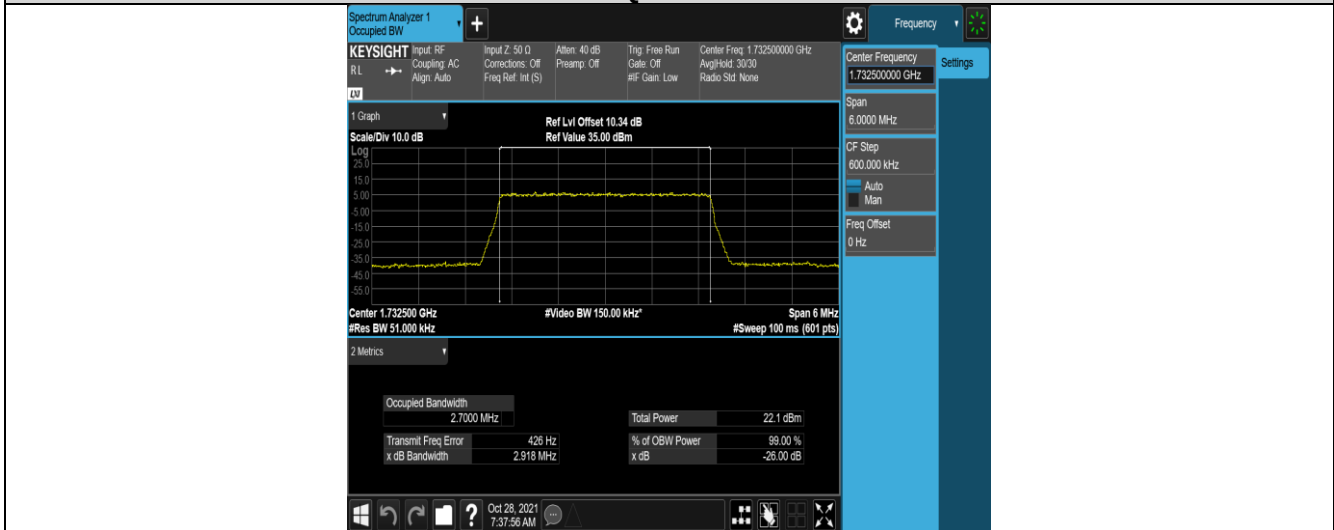
Band4-1.4MHz-16QAM-20393-6RB#0



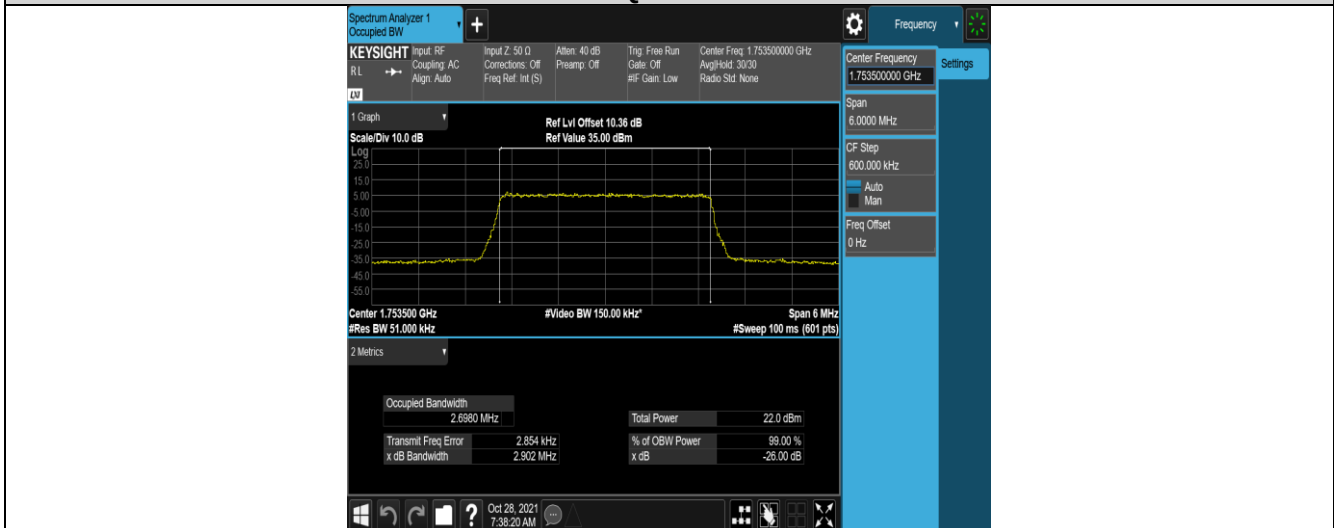
Band4-3MHz-QPSK-19965-15RB#0



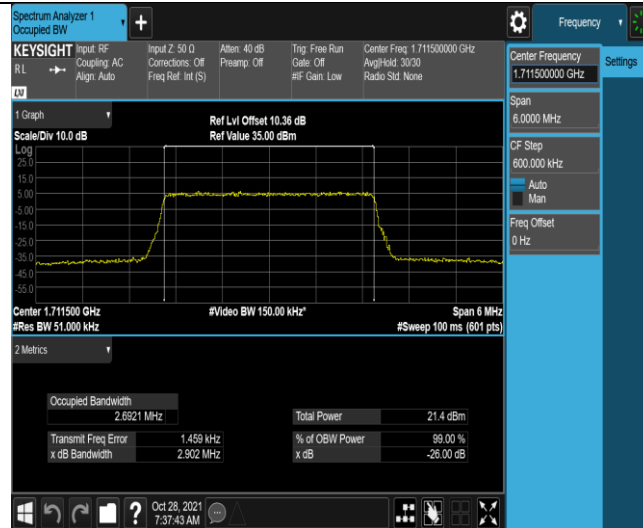
Band4-3MHz-QPSK-20175-15RB#0



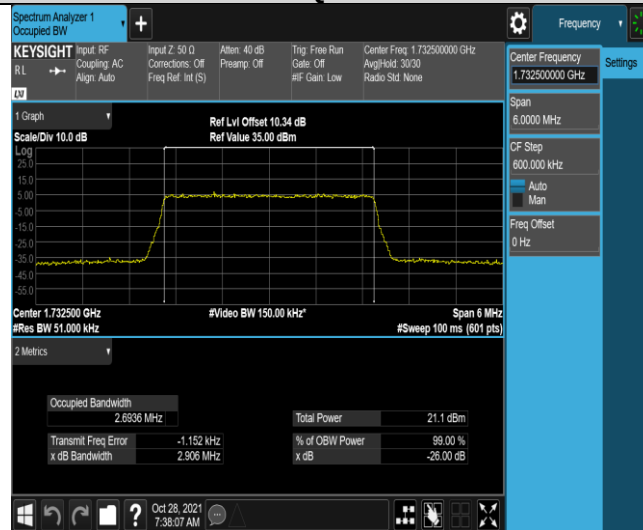
Band4-3MHz-QPSK-20385-15RB#0



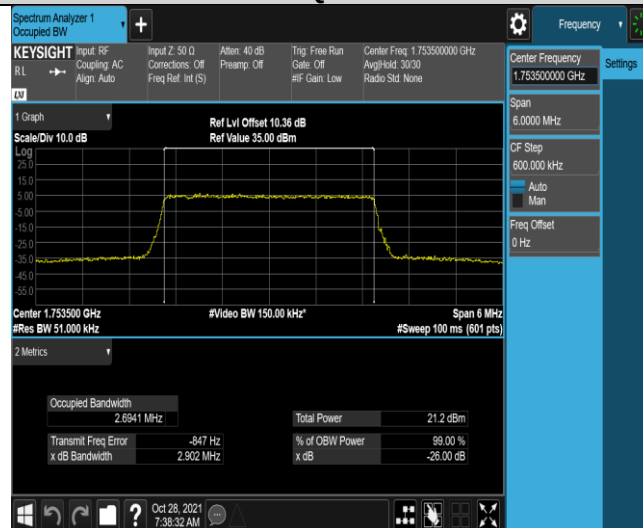
Band4-3MHz-16QAM-19965-15RB#0



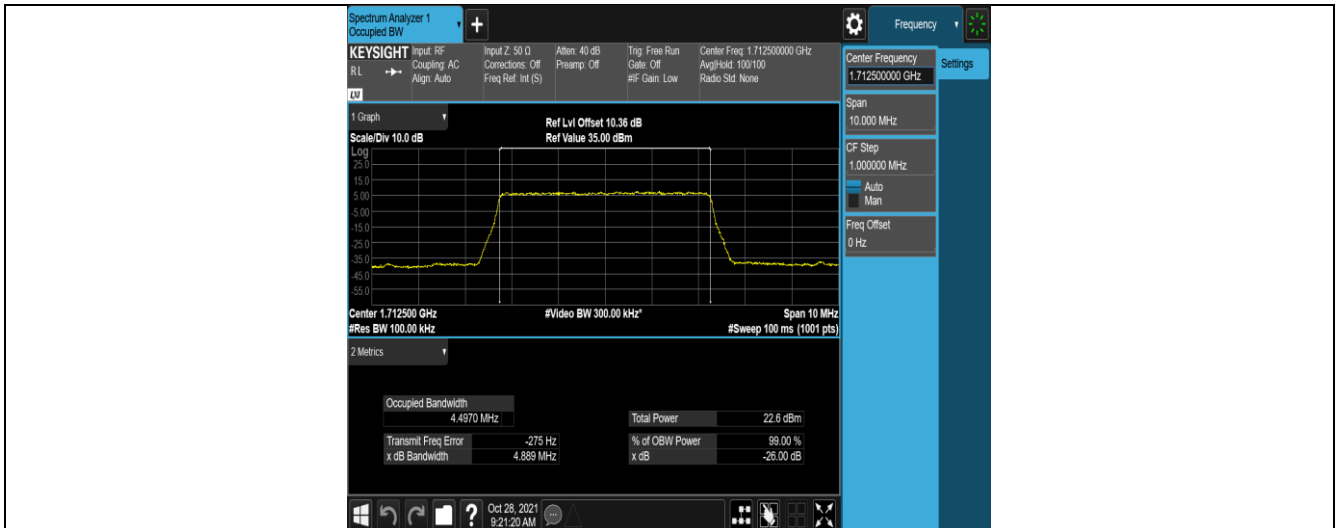
Band4-3MHz-16QAM-20175-15RB#0



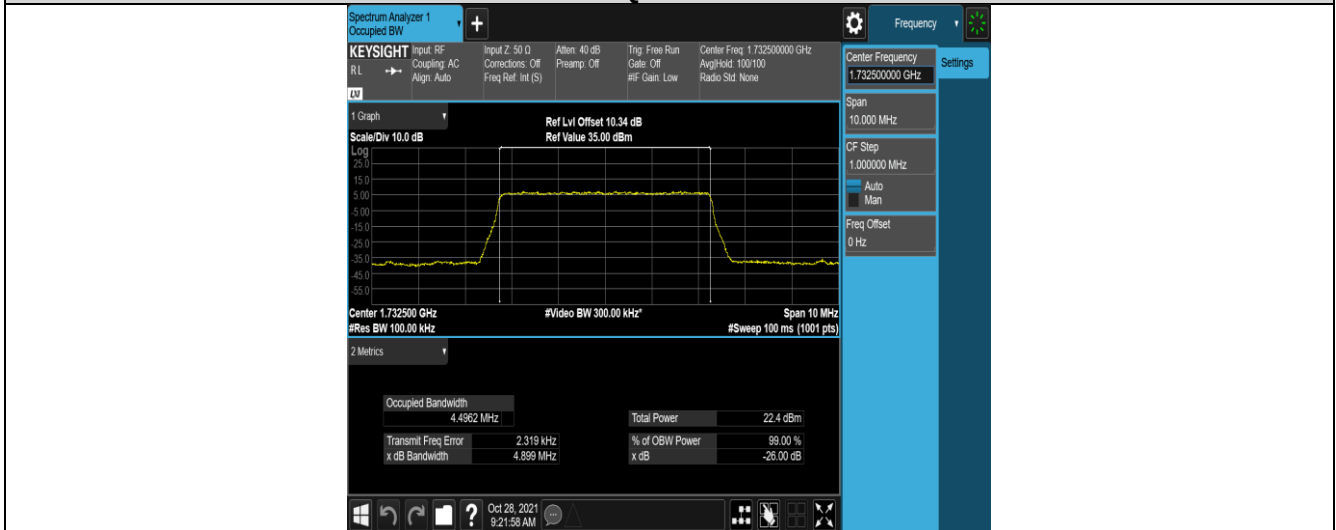
Band4-3MHz-16QAM-20385-15RB#0



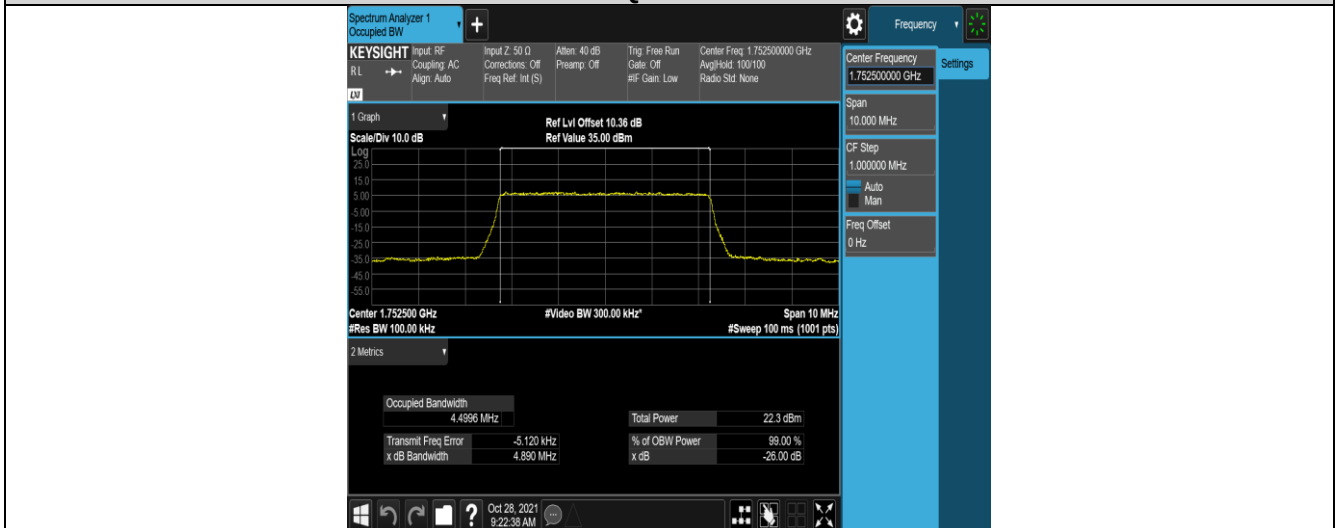
Band4-5MHz-QPSK-19975-25RB#0



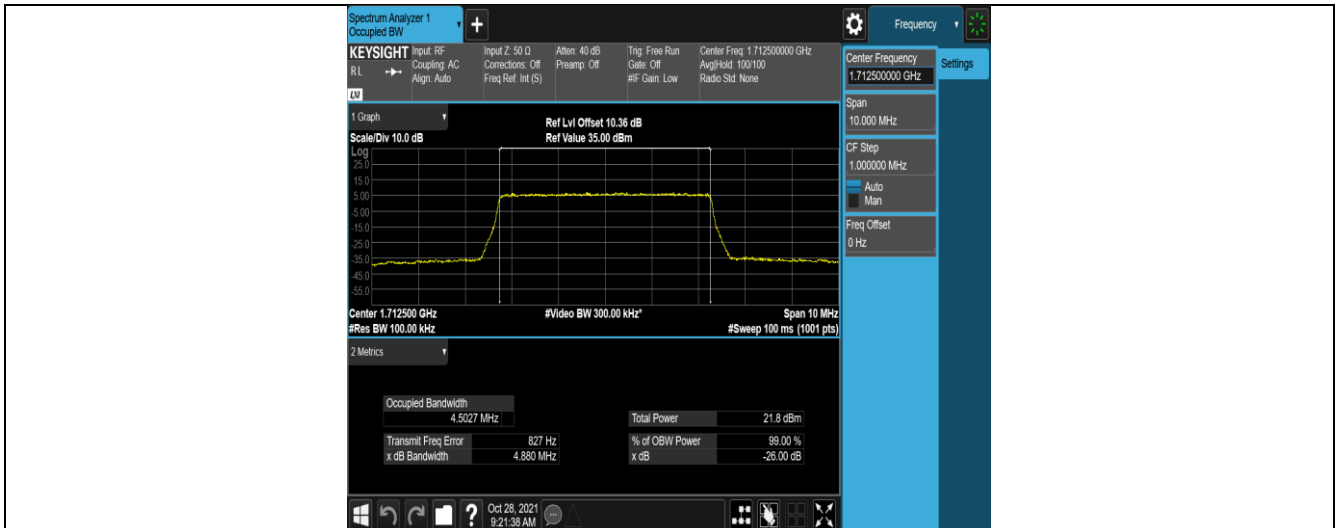
Band4-5MHz-QPSK-20175-25RB#0



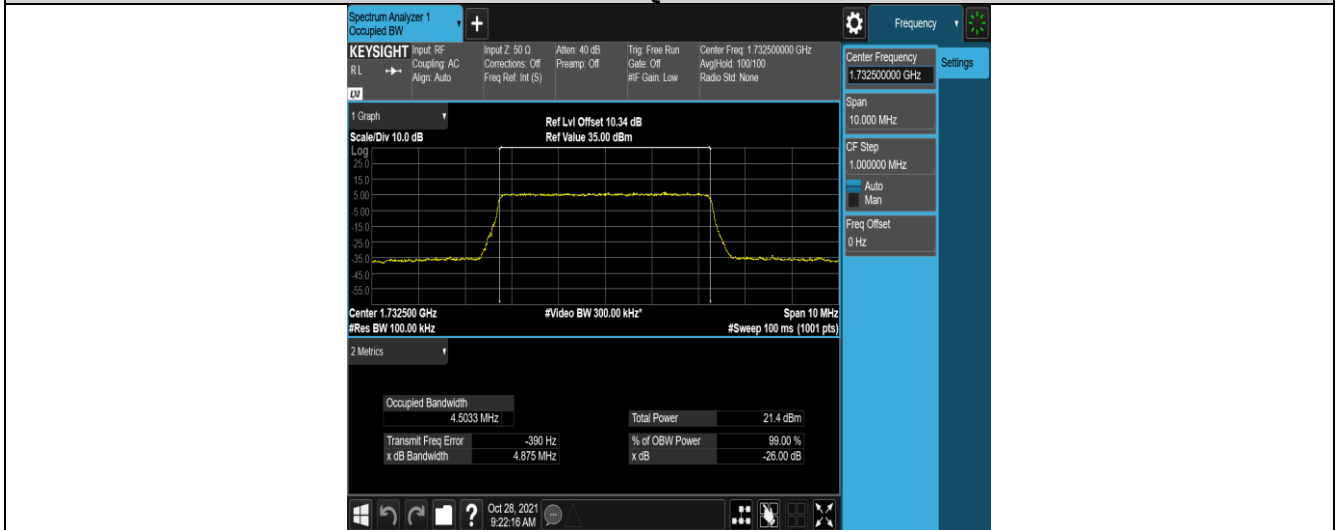
Band4-5MHz-QPSK-20375-25RB#0



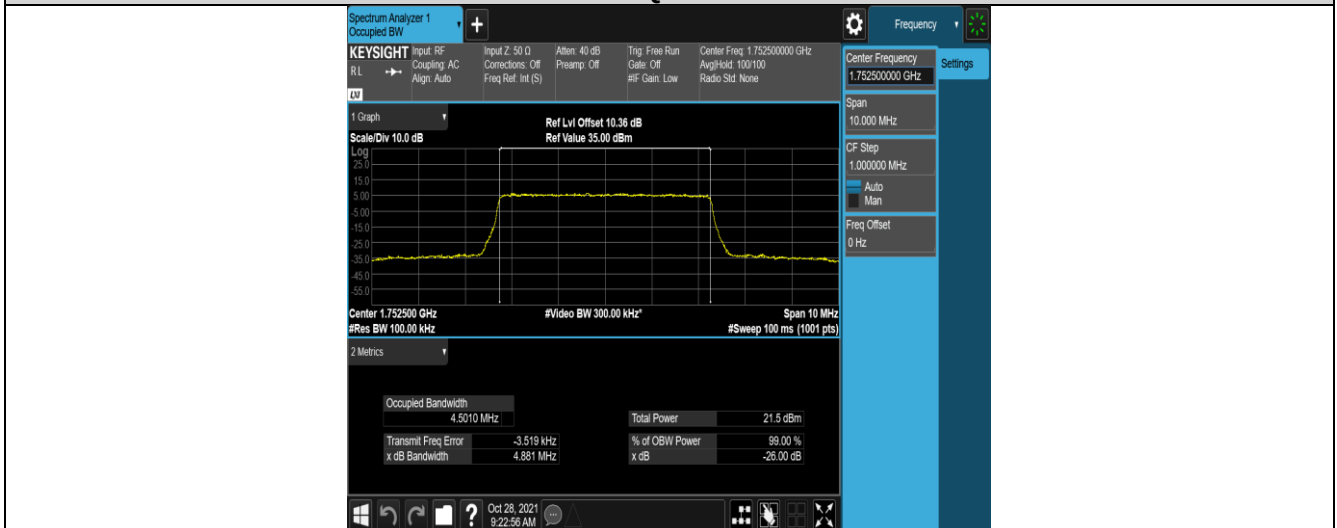
Band4-5MHz-16QAM-19975-25RB#0



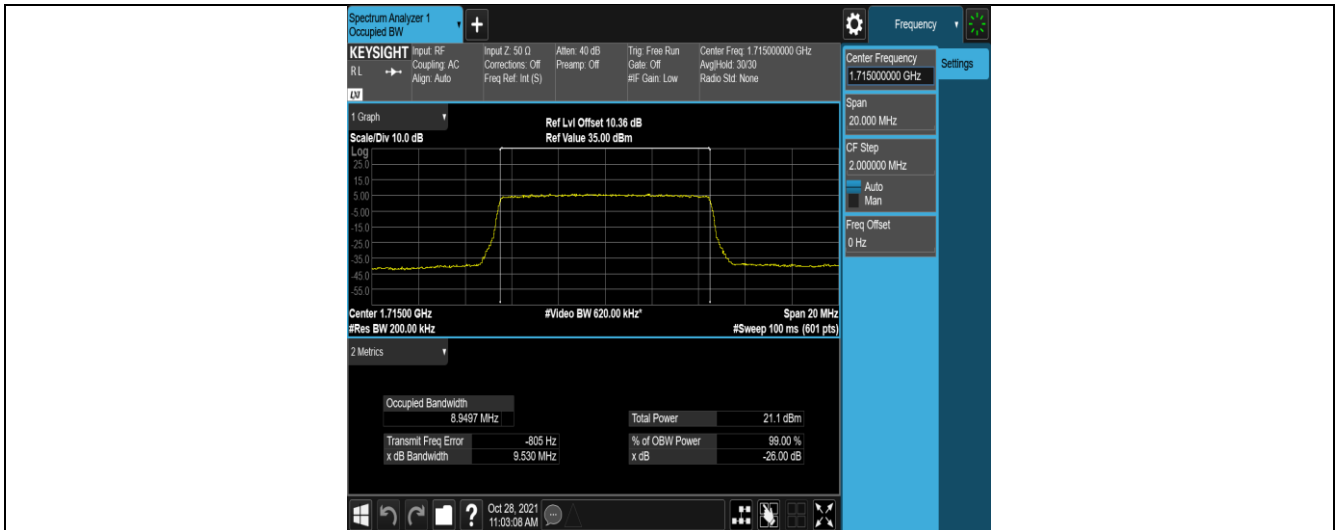
Band4-5MHz-16QAM-20175-25RB#0



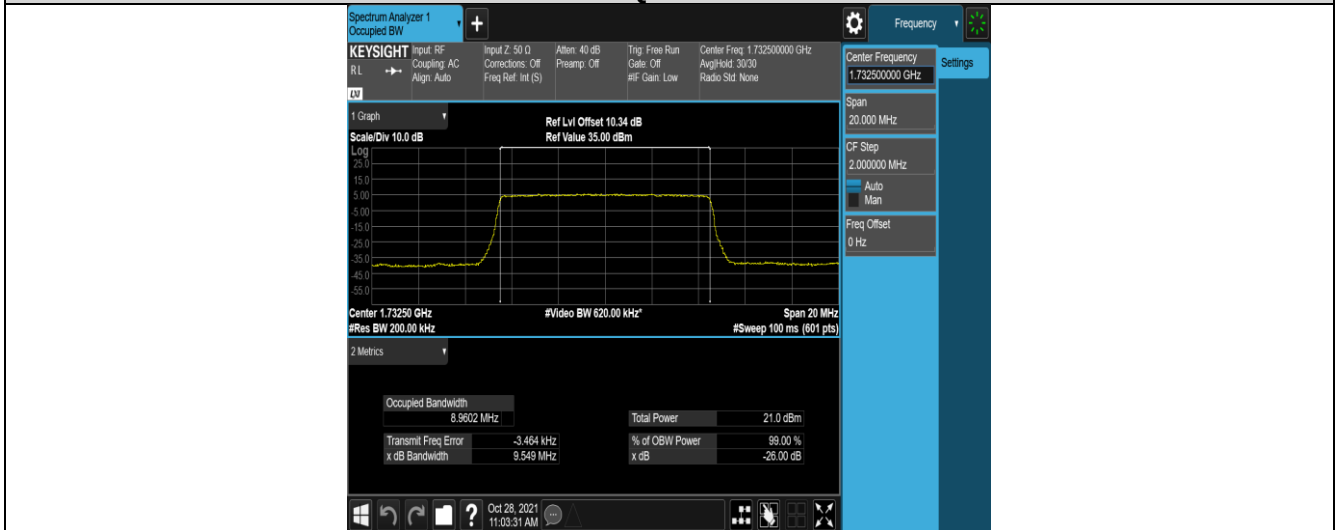
Band4-5MHz-16QAM-20375-25RB#0



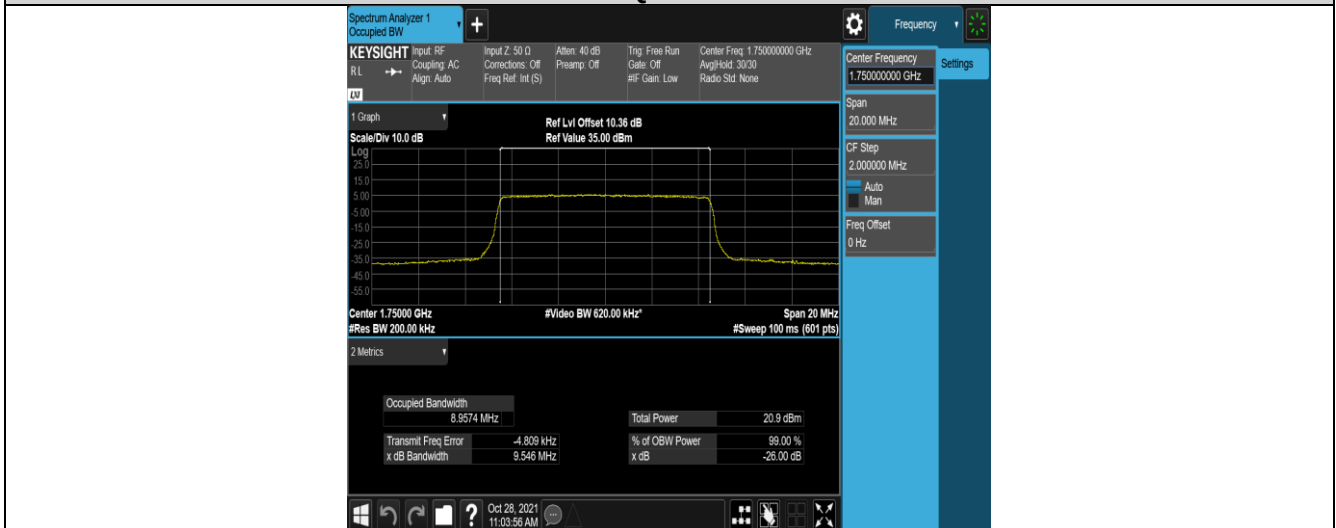
Band4-10MHz-QPSK-20000-50RB#0



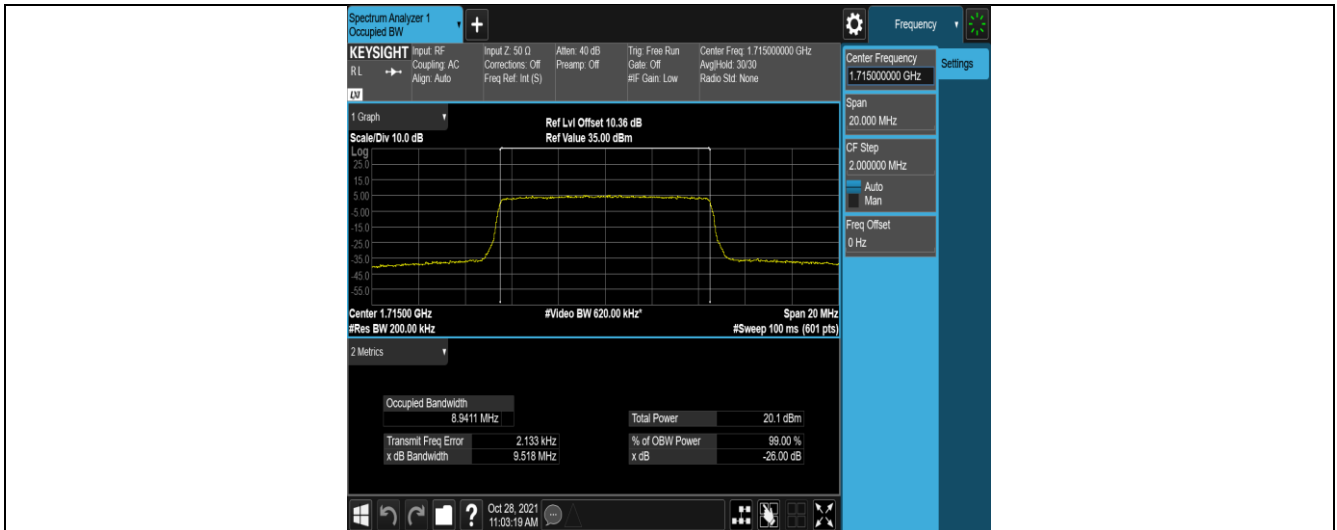
Band4-10MHz-QPSK-20175-50RB#0



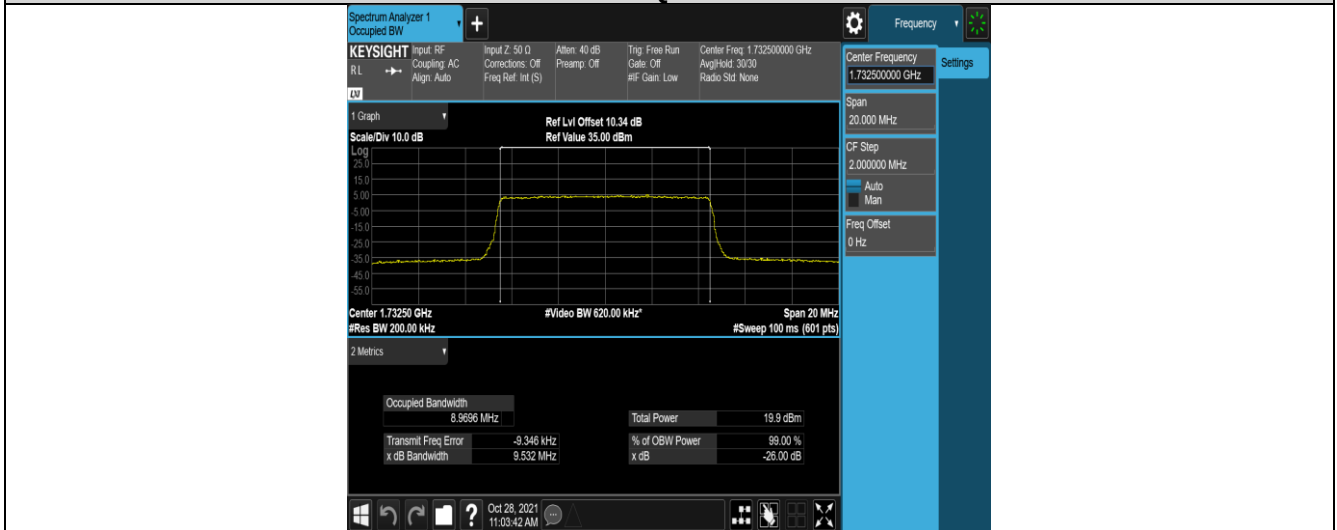
Band4-10MHz-QPSK-20350-50RB#0



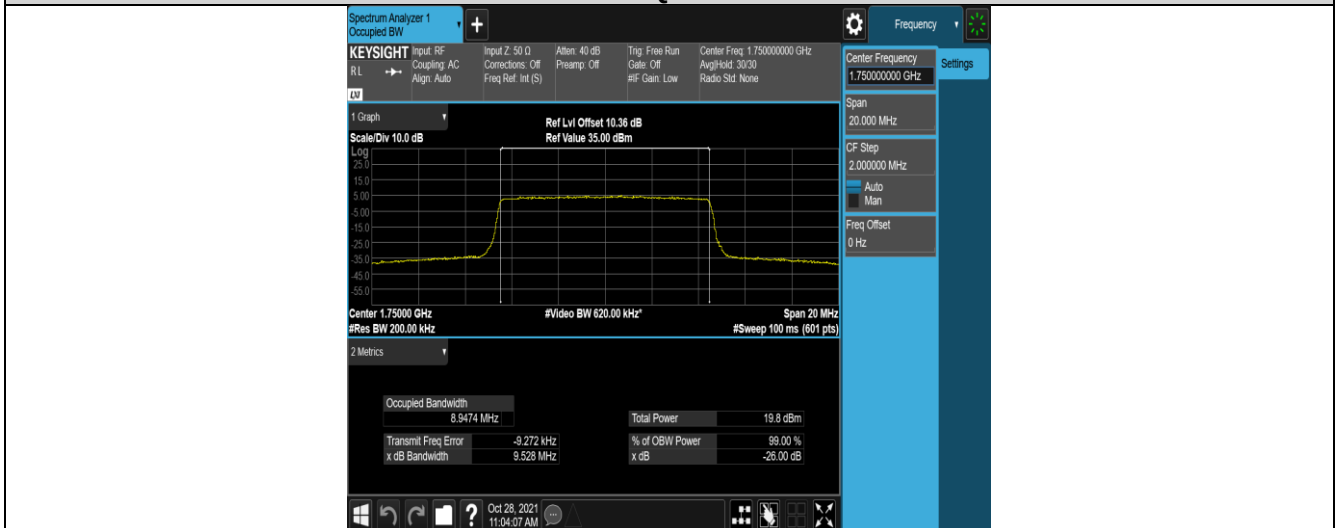
Band4-10MHz-16QAM-20000-50RB#0



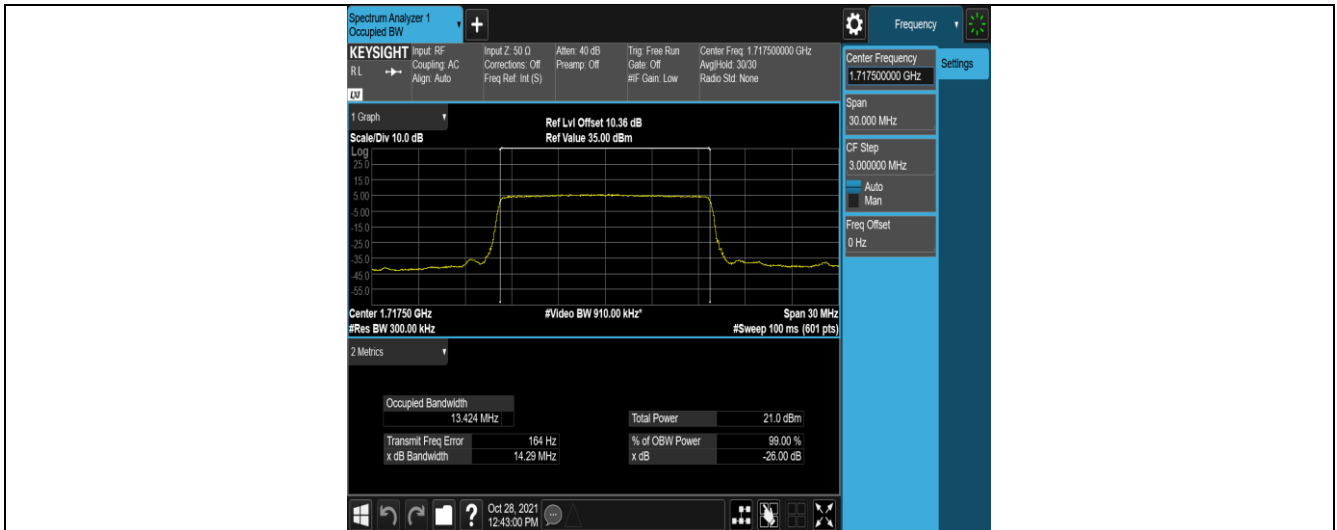
Band4-10MHz-16QAM-20175-50RB#0



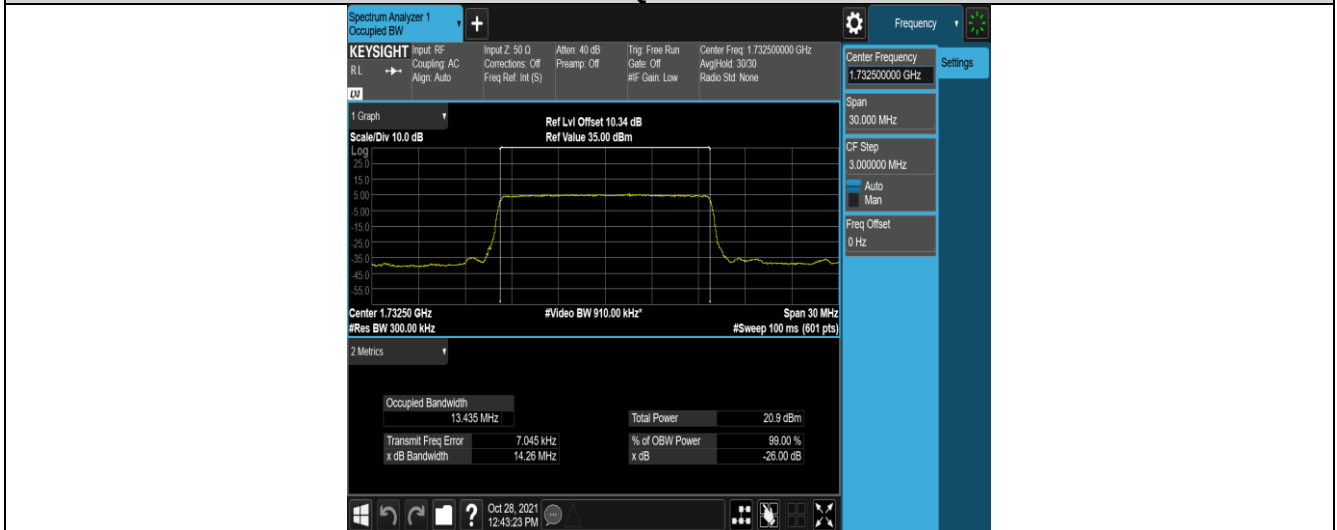
Band4-10MHz-16QAM-20350-50RB#0



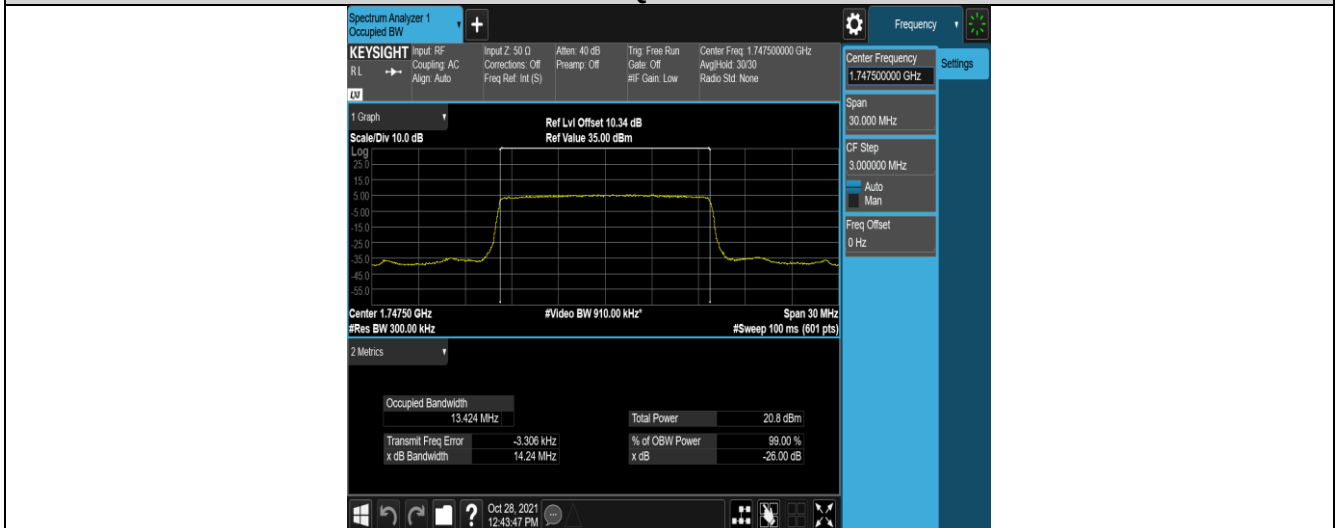
Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20175-75RB#0



Band4-15MHz-QPSK-20325-75RB#0



Band4-15MHz-16QAM-20025-75RB#0