

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#5	22.60	22.0	33	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.61	22.0	33	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	22.64	22.0	33	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.67	22.1	33	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.67	22.1	33	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.67	22.1	33	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.49	20.9	33	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.81	22.2	33	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.77	22.2	33	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.79	22.2	33	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.89	22.3	33	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.93	22.3	33	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.93	22.3	33	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.87	21.3	33	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.53	22.9	33	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.48	22.9	33	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.56	23.0	33	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.38	22.8	33	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.42	22.8	33	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.38	22.8	33	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.42	21.8	33	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.66	21.1	33	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.63	21.0	33	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.63	21.0	33	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.52	20.9	33	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.53	20.9	33	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.50	20.9	33	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.77	20.2	33	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.53	21.9	33	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.71	22.1	33	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.56	22.0	33	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.55	21.0	33	PASS

Band4	1.4MHz	16QAM	20175	3RB#1	21.54	20.9	33	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.59	21.0	33	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.07	20.5	33	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.85	23.3	33	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.88	23.3	33	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.83	23.2	33	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.48	21.9	33	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.40	21.8	33	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.40	21.8	33	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.62	21.0	33	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.55	22.0	33	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.52	21.9	33	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.53	21.9	33	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.46	20.9	33	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.48	20.9	33	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.47	20.9	33	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.49	20.9	33	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.79	22.2	33	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.84	22.2	33	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.77	22.2	33	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.73	21.1	33	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.92	21.3	33	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.74	21.1	33	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.74	21.1	33	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.26	22.7	33	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.30	22.7	33	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.27	22.7	33	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.43	21.8	33	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.42	21.8	33	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.43	21.8	33	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.37	21.8	33	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.50	20.9	33	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.46	20.9	33	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.51	20.9	33	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.76	20.2	33	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.75	20.2	33	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.76	20.2	33	PASS

Band4	3MHz	16QAM	19965	15RB#0	20.45	19.9	33	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.59	22.0	33	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.53	21.9	33	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.58	22.0	33	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.04	20.4	33	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.04	20.4	33	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.10	20.5	33	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.98	20.4	33	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.22	21.6	33	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.16	21.6	33	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.16	21.6	33	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.68	21.1	33	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.68	21.1	33	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.74	21.1	33	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.59	21.0	33	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.67	22.1	33	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.65	22.1	33	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.63	22.0	33	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.56	21.0	33	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.53	20.9	33	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.58	21.0	33	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.56	21.0	33	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.90	22.3	33	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.03	22.4	33	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.03	22.4	33	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.64	21.0	33	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.82	21.2	33	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.82	21.2	33	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.84	21.2	33	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.63	23.0	33	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.58	23.0	33	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.70	23.1	33	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.30	21.7	33	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.41	21.8	33	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.40	21.8	33	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.41	21.8	33	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.29	20.7	33	PASS

Band4	5MHz	16QAM	19975	1RB#12	21.28	20.7	33	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.34	20.7	33	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.56	20.0	33	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.56	20.0	33	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.61	20.0	33	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.39	19.8	33	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.79	21.2	33	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.72	21.1	33	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.61	21.0	33	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.82	20.2	33	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.02	20.4	33	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.95	20.4	33	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.01	20.4	33	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.70	21.1	33	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.72	21.1	33	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.80	21.2	33	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.47	20.9	33	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.48	20.9	33	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.44	20.8	33	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.50	20.9	33	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.52	21.9	33	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.53	21.9	33	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.35	21.8	33	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.57	21.0	33	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.52	20.9	33	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.48	20.9	33	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.44	20.8	33	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.94	22.3	33	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.78	22.2	33	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.76	22.2	33	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.82	21.2	33	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.68	21.1	33	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.62	21.0	33	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.71	21.1	33	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.39	22.8	33	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.26	22.7	33	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.03	22.4	33	PASS

Band4	10MHz	QPSK	20350	25RB#25	22.22	21.6	33	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.18	21.6	33	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.05	21.5	33	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.18	21.6	33	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.90	20.3	33	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.82	20.2	33	PASS
Band4	10MHz	16QAM	20000	1RB#24	20.79	20.2	33	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.60	20.0	33	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.62	20.0	33	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.63	20.0	33	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.61	20.0	33	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.78	21.2	33	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.64	21.0	33	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.41	20.8	33	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.92	20.3	33	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.12	20.5	33	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.91	20.3	33	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.04	20.4	33	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.84	21.2	33	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.02	21.4	33	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.20	21.6	33	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.26	20.7	33	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.26	20.7	33	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.20	20.6	33	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.37	20.8	33	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.59	22.0	33	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.61	22.0	33	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.54	21.9	33	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.72	21.1	33	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.71	21.1	33	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.69	21.1	33	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.44	20.8	33	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.91	22.3	33	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.65	22.1	33	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.99	22.4	33	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.46	20.9	33	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.74	21.1	33	PASS

Band4	15MHz	QPSK	20175	38RB#18	21.68	21.1	33	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.74	21.1	33	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.13	22.5	33	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.27	22.7	33	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.98	22.4	33	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.89	21.3	33	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.92	21.3	33	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.13	21.5	33	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.08	21.5	33	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.72	21.1	33	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.79	21.2	33	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.74	21.1	33	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.69	21.1	33	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.76	21.2	33	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.74	21.1	33	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.65	20.1	33	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.60	21.0	33	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.80	21.2	33	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.46	20.9	33	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.86	21.3	33	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.61	21.0	33	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.42	20.8	33	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.02	20.4	33	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.81	21.2	33	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.03	21.4	33	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.16	21.6	33	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.96	21.4	33	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.99	21.4	33	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.05	21.5	33	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.24	20.6	33	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.75	22.2	33	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.54	21.9	33	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.62	22.0	33	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.43	20.8	33	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.44	20.8	33	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.60	21.0	33	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.52	20.9	33	PASS

Band4	20MHz	QPSK	20175	1RB#99	23.06	22.5	33	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.80	22.2	33	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.48	21.9	33	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.75	21.2	33	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.97	21.4	33	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.75	21.2	33	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.83	21.2	33	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.01	22.4	33	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.41	22.8	33	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.31	22.7	33	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.16	21.6	33	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.08	21.5	33	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.03	21.4	33	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.11	21.5	33	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.24	21.6	33	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.04	21.4	33	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.05	21.5	33	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.66	20.1	33	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.61	20.0	33	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.63	20.0	33	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.59	20.0	33	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.58	21.0	33	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.86	21.3	33	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.33	20.7	33	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.86	20.3	33	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.85	20.3	33	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.03	20.4	33	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.87	20.3	33	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.51	20.9	33	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.24	20.6	33	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.03	20.4	33	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.25	20.7	33	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.49	20.9	33	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.24	20.6	33	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.18	20.6	33	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 -0.6dBi.

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	4.75	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.39	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	5.07	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.57	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.93	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.48	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.48	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.09	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.65	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.35	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.99	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.29	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.78	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.30	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	5.13	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.25	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	5.22	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.30	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.59	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.17	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.71	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.29	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.91	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.29	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.78	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.28	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.99	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.33	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	5.22	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.33	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.80	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.23	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.83	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.20	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	6.09	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.23	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	4.78	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.45	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	5.19	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.30	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	5.22	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.45	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.94	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.32	13	PASS

Total Quality. Assured.

Band4	10MHz	16QAM	20175	1RB#0	6.32	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.23	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	6.14	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.32	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.78	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.16	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	5.28	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.10	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.96	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.22	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.74	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.14	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	6.35	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.09	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	6.06	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.14	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.99	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	4.41	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.39	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.32	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.81	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.41	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.74	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.00	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	6.49	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.91	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.91	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS

Appendix C: Modulation Characteristics

Test Plots

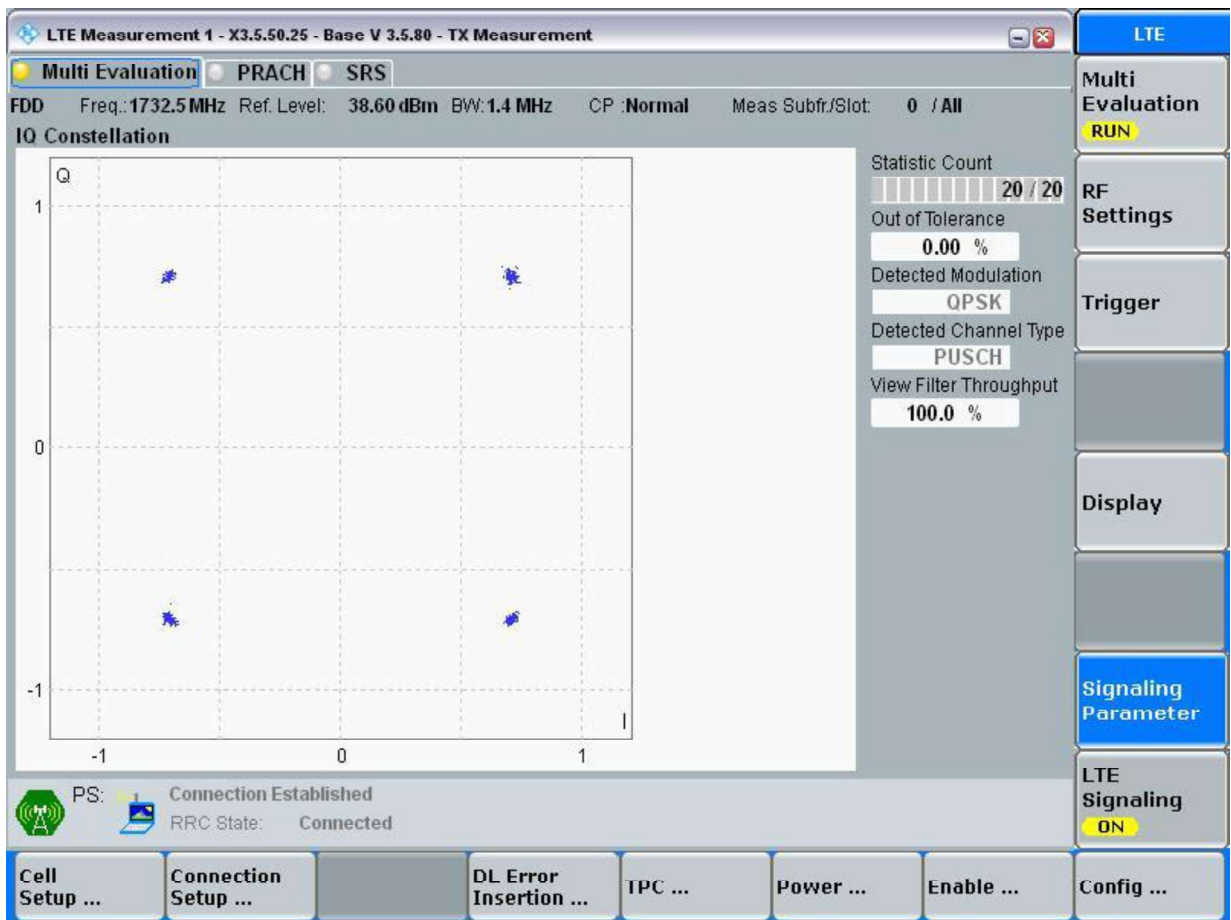
Test Band = BAND4

Test Mode = LTE/TM1

Test Bandwidth = 1.4MHz

Test Channel = MCH

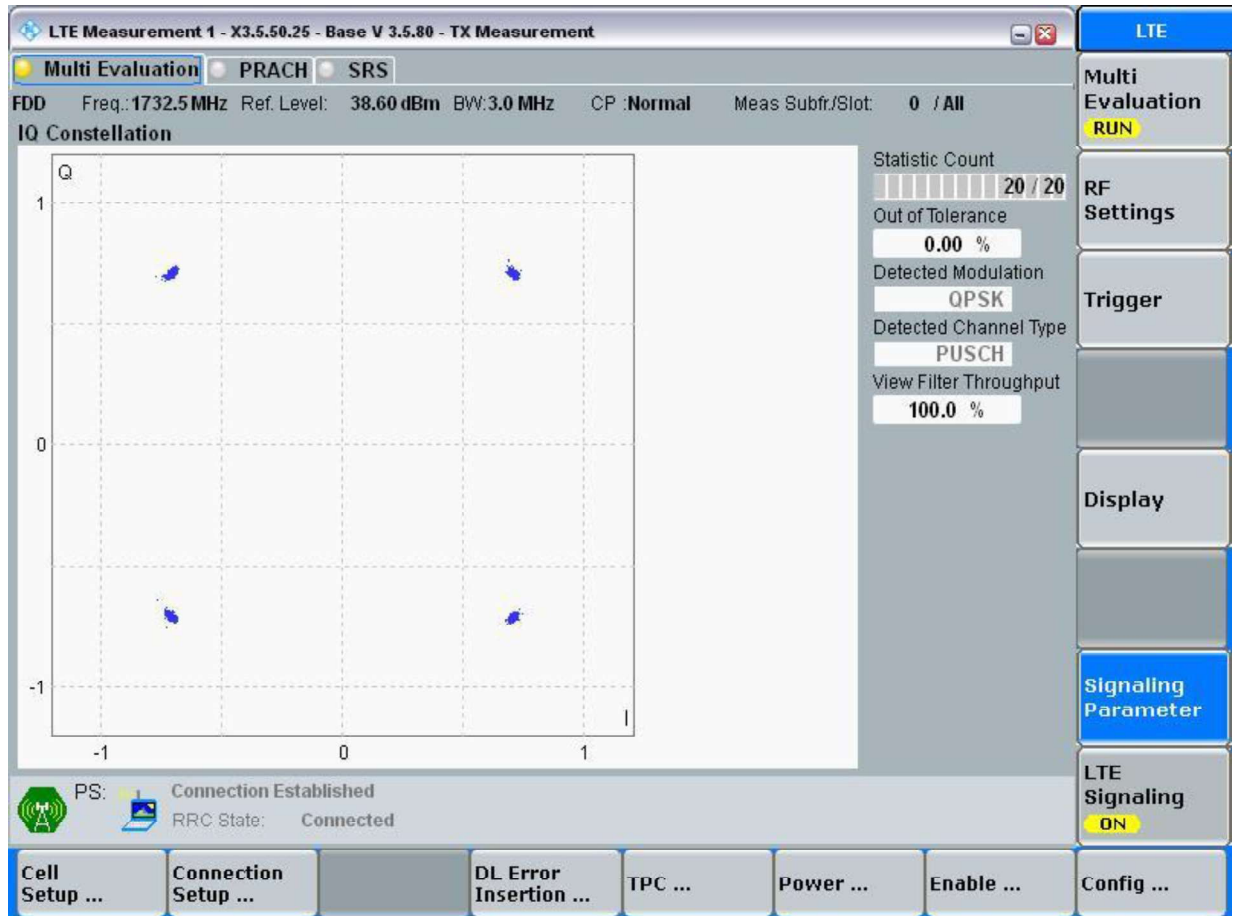
Test RB = RB6#0



Test Bandwidth = 3 MHz

Test Channel = MCH

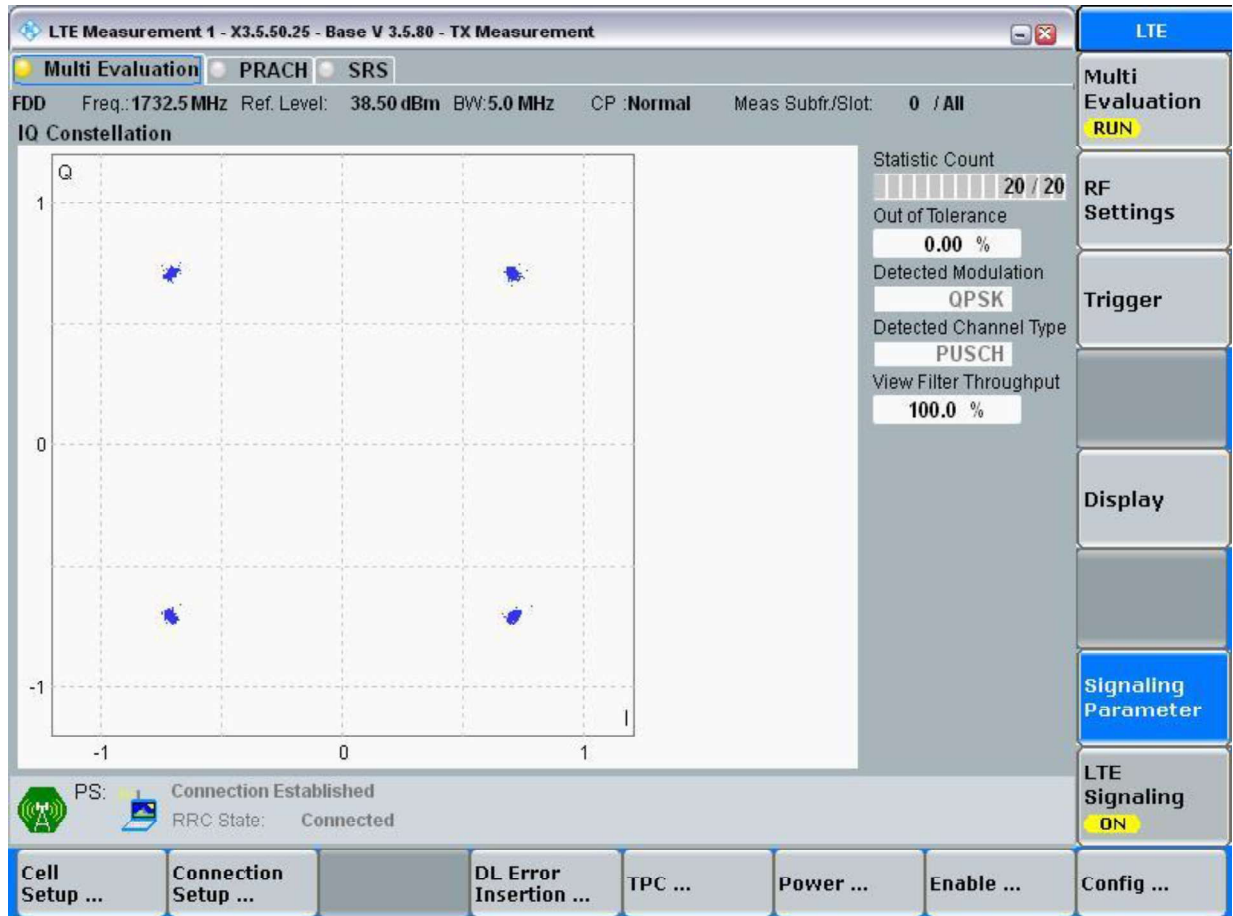
Test RB = RB15#0



Test Bandwidth = 5MHz

Test Channel = MCH

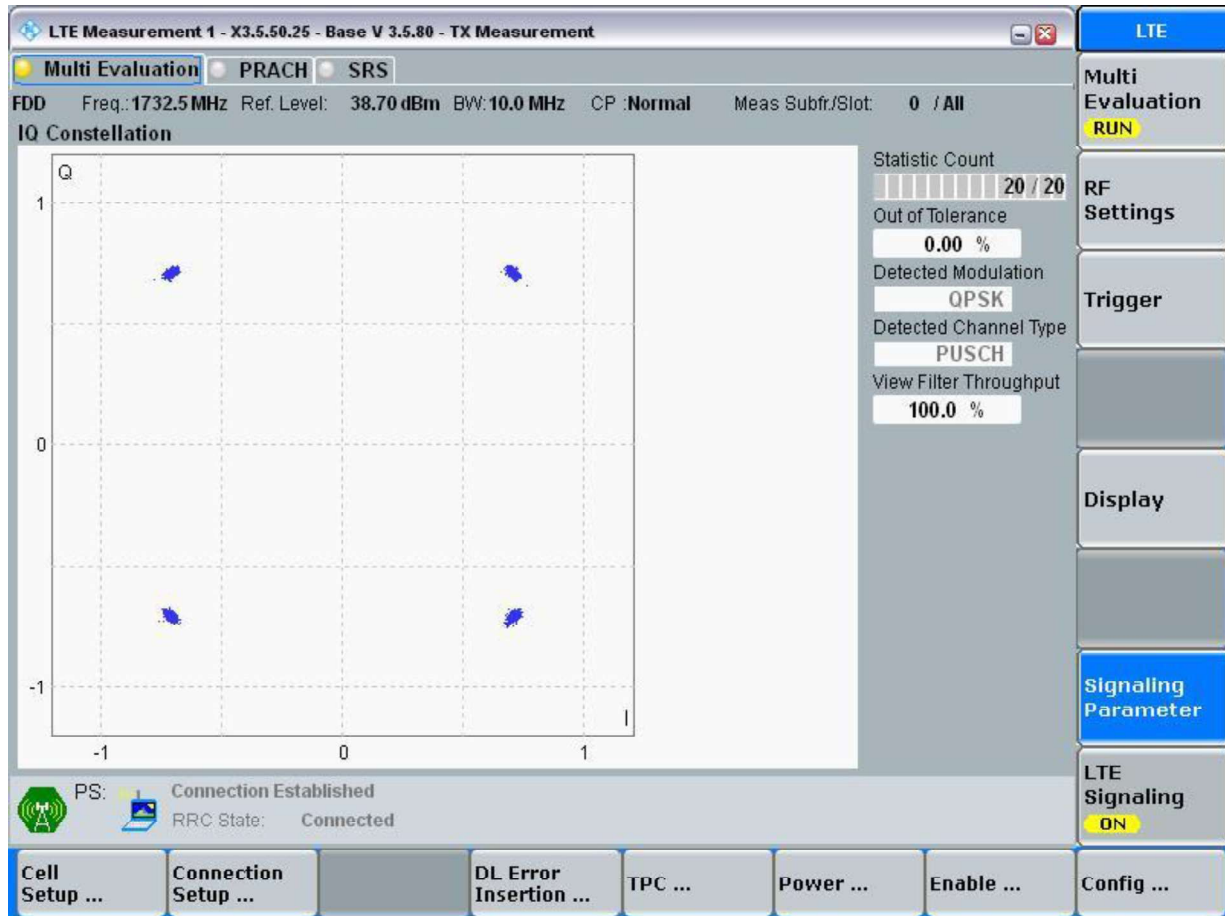
Test RB = RB25#0



Test Bandwidth = 10MHz

Test Channel = MCH

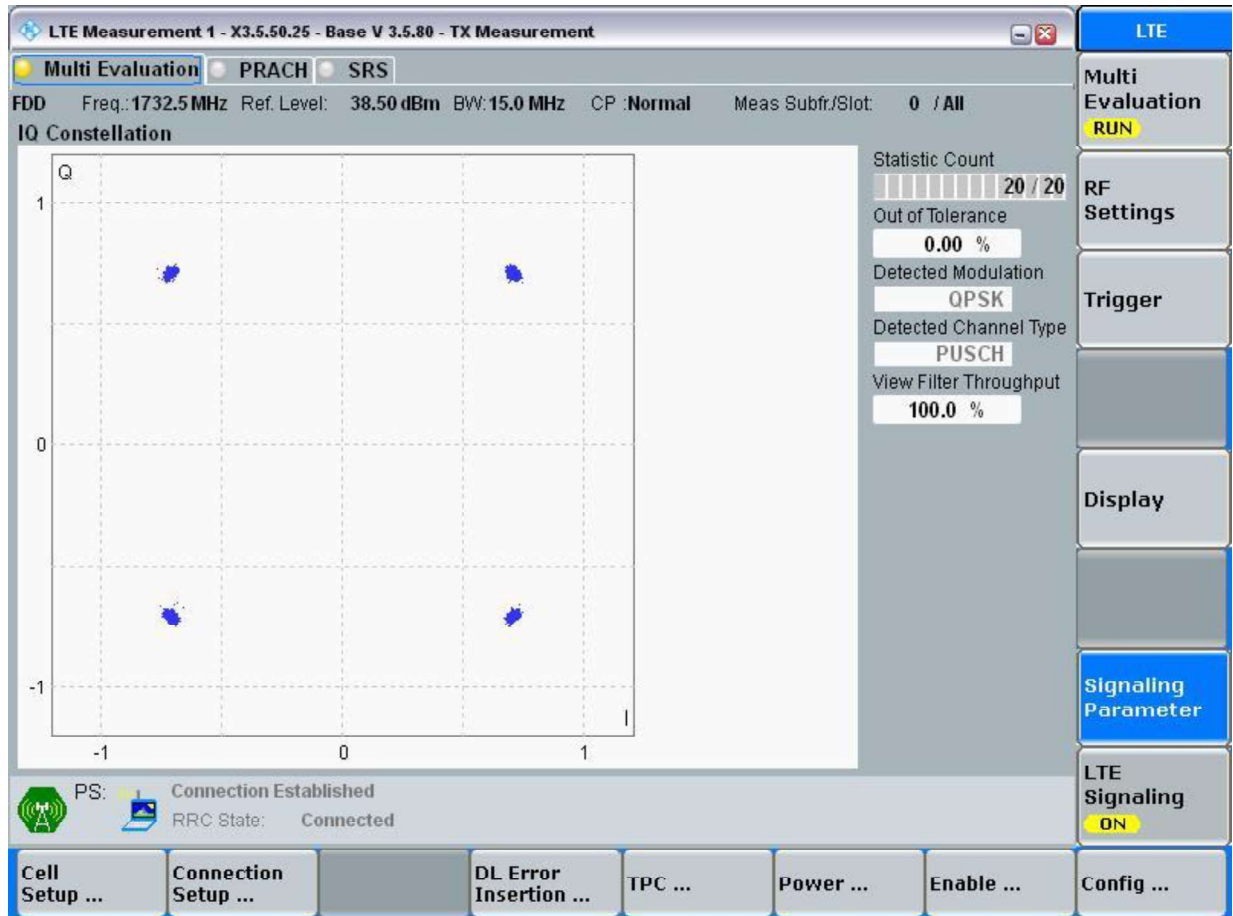
Test RB = RB50#0



Test Bandwidth = 15MHz

Test Channel = MCH

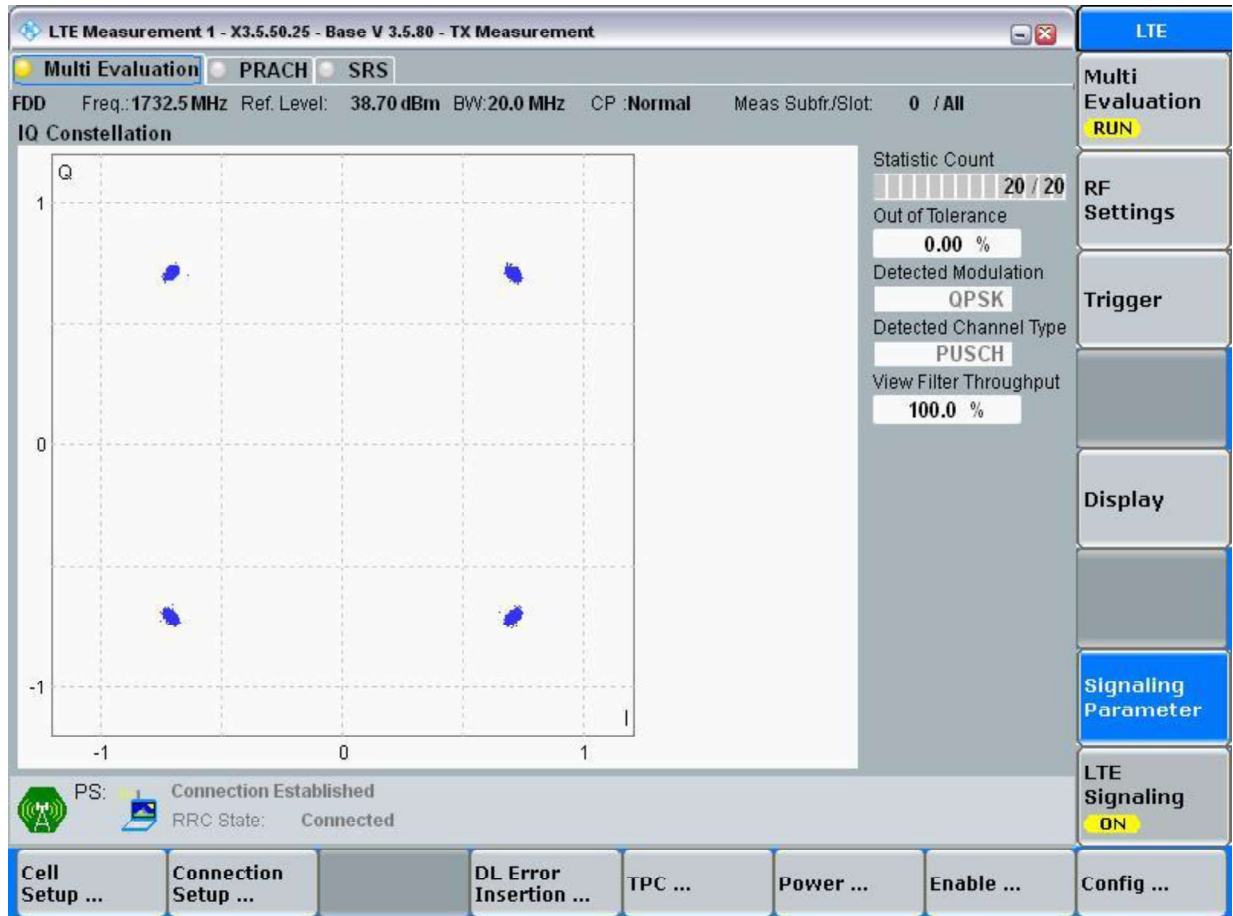
Test RB = RB75#0



Test Bandwidth = 20MHz

Test Channel = MCH

Test RB = RB100#0

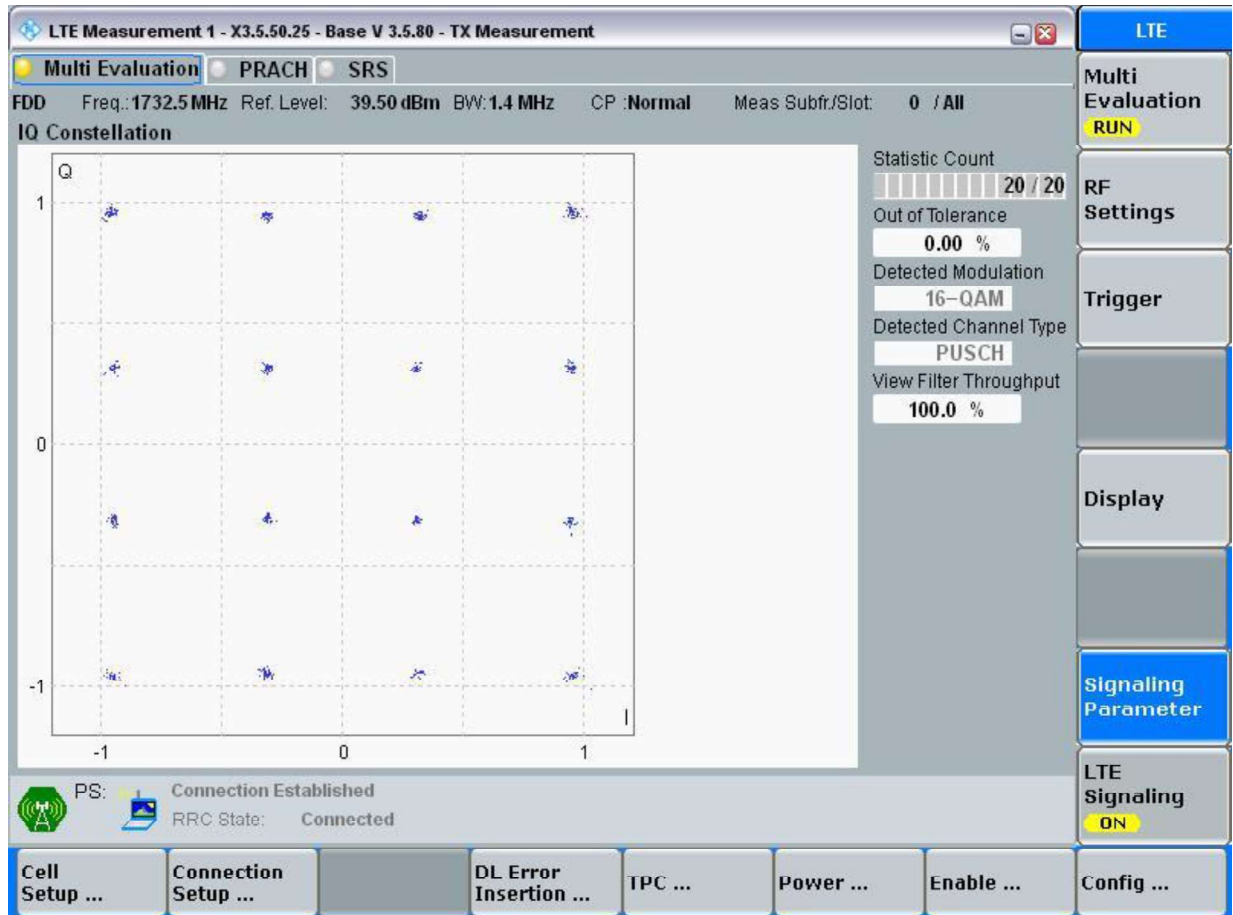


Test Mode = LTE/TM2

Bandwidth = 1.4MHz

Test Channel = MCH

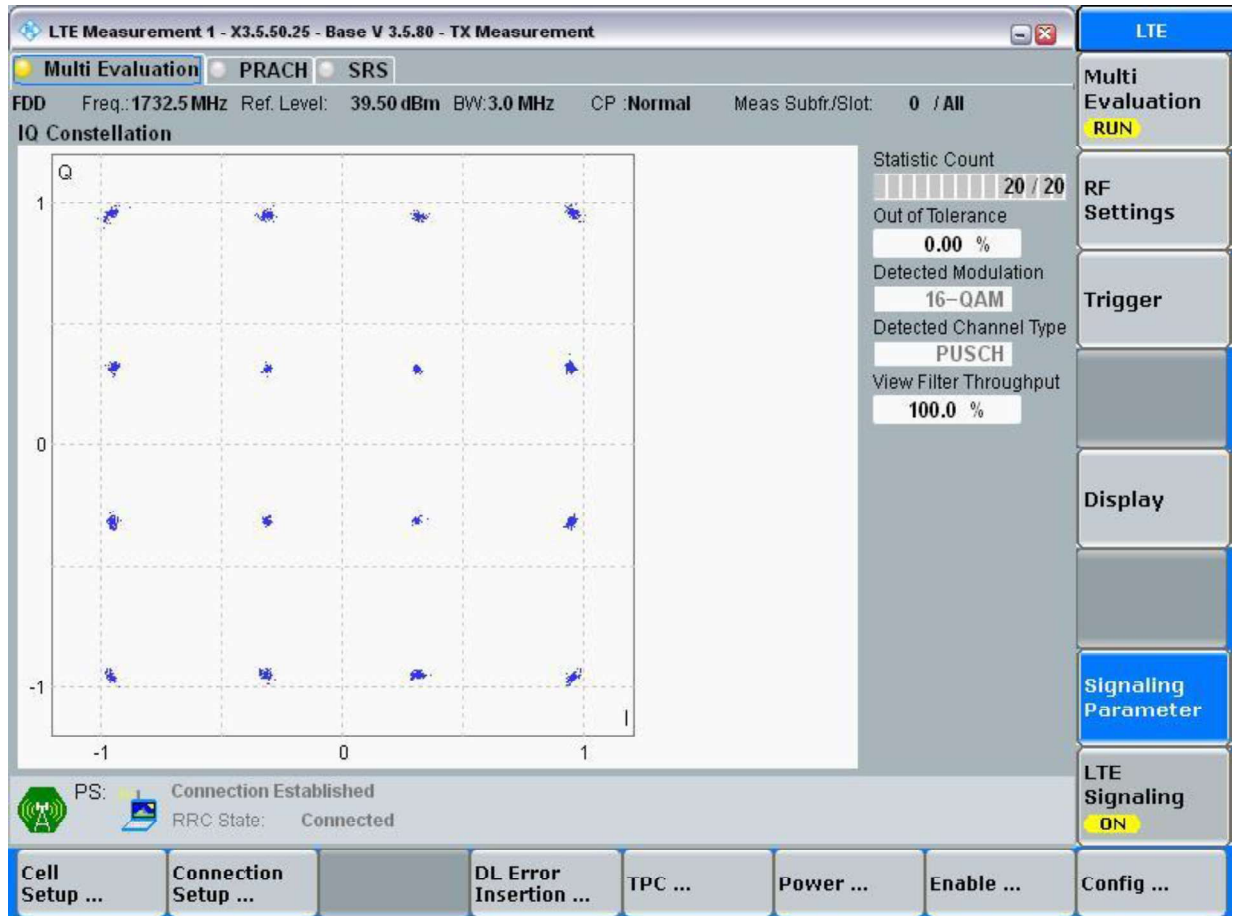
Test RB = RB6#0



Test Bandwidth = 3MHz

Test Channel = MCH

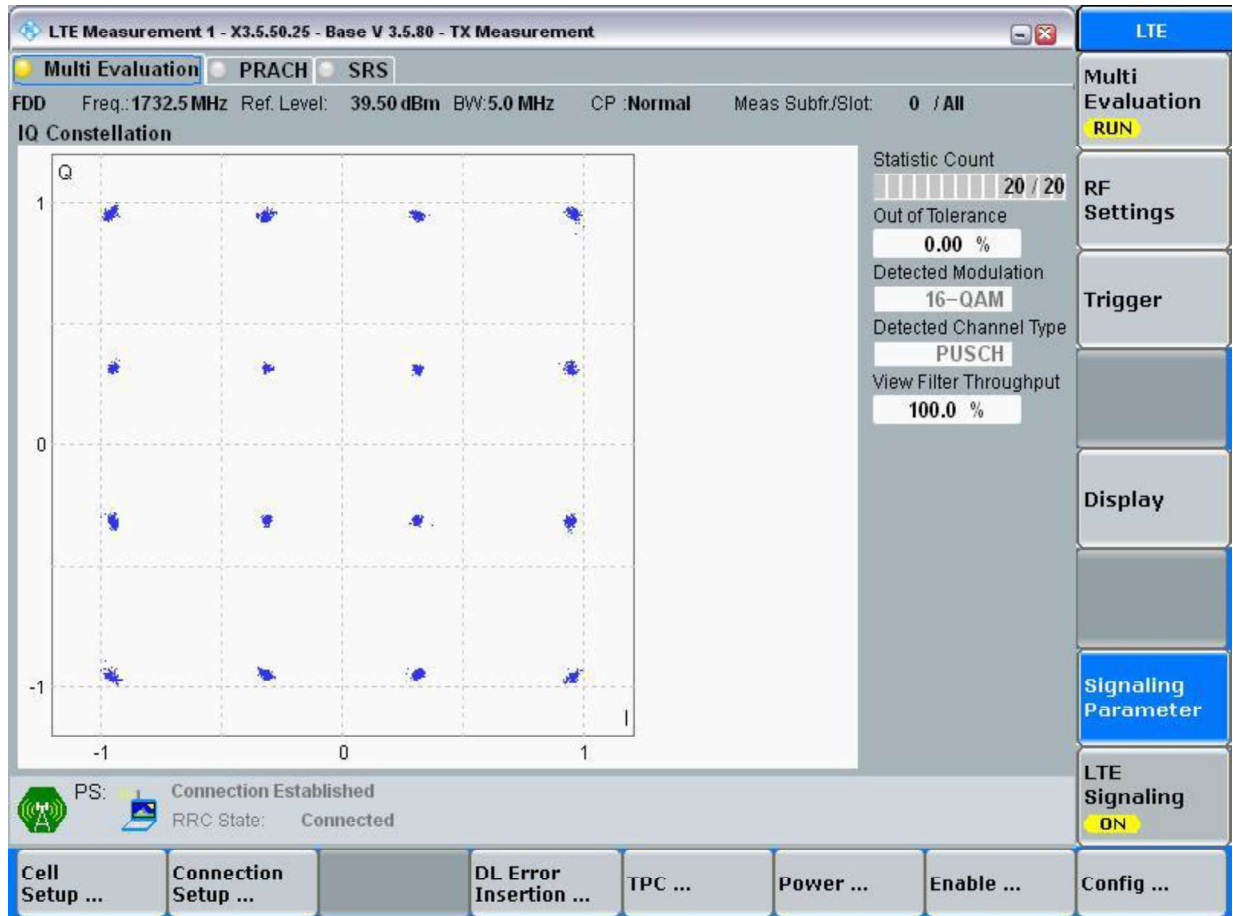
Test RB = RB15#0



Test Bandwidth = 5MHz

Test Channel = MCH

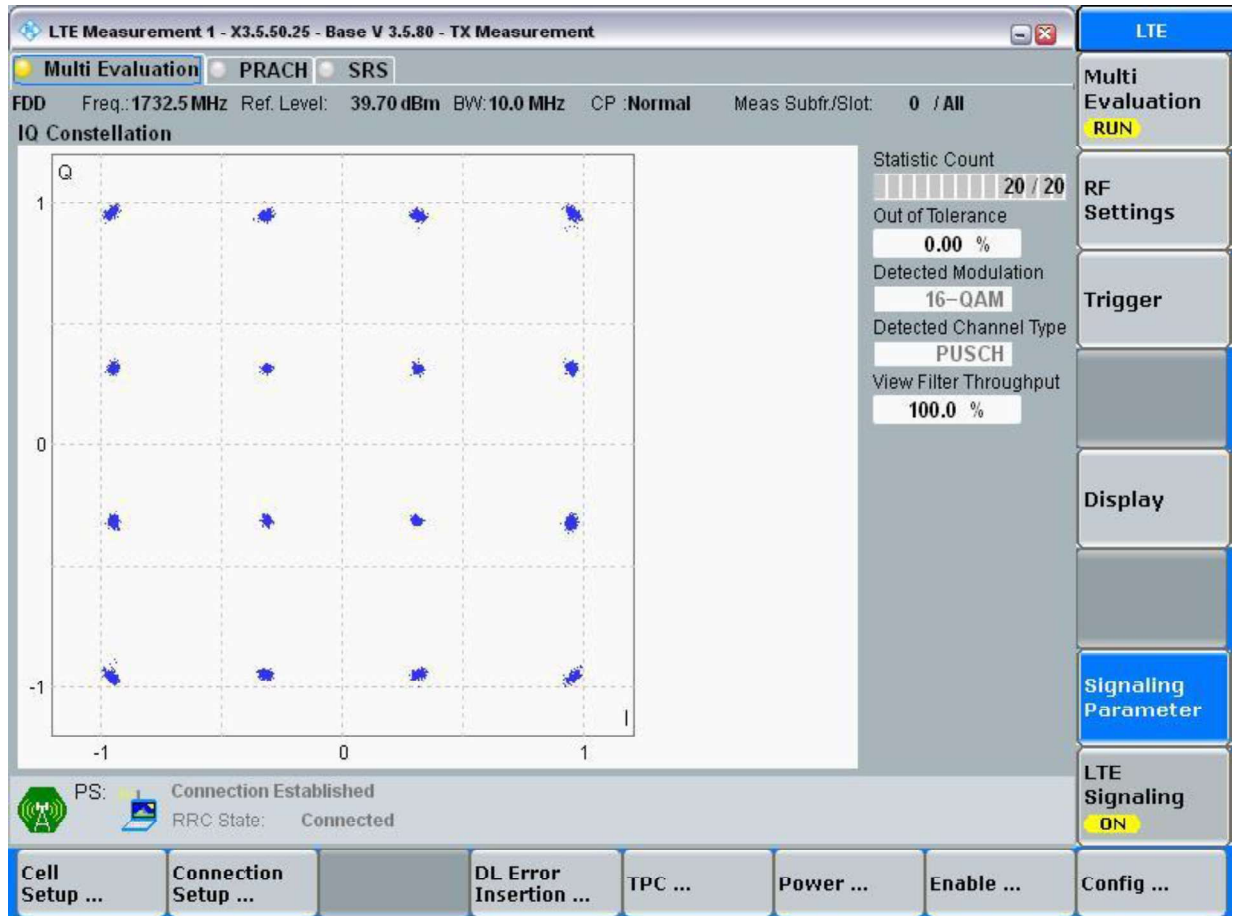
Test RB = RB25#0



Test Bandwidth = 10MHz

Test Channel = MCH

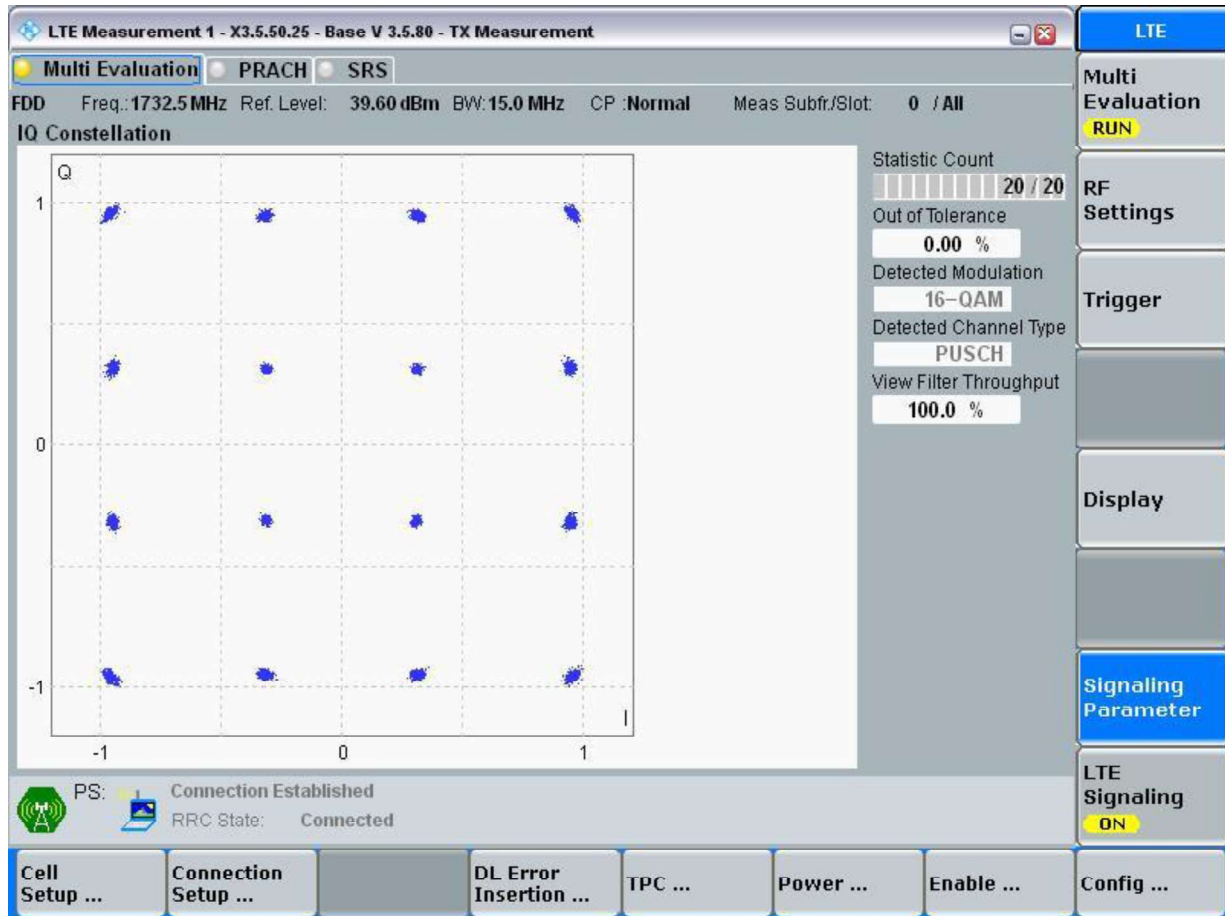
Test RB = RB50#0



Test Bandwidth = 15MHz

Test Channel = MCH

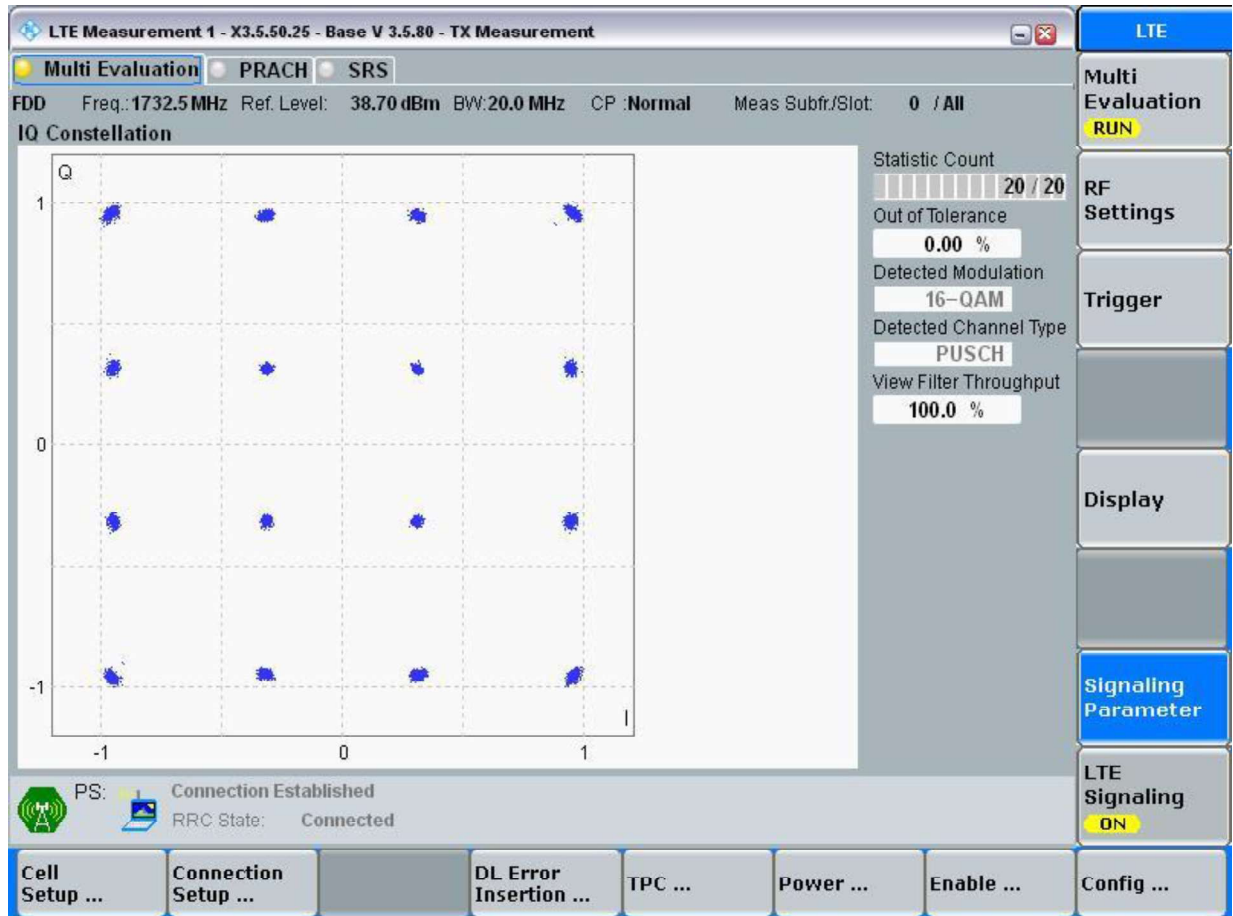
Test RB = RB75#0



Test Bandwidth = 20MHz

Test Channel = MCH

Test RB = RB100#0

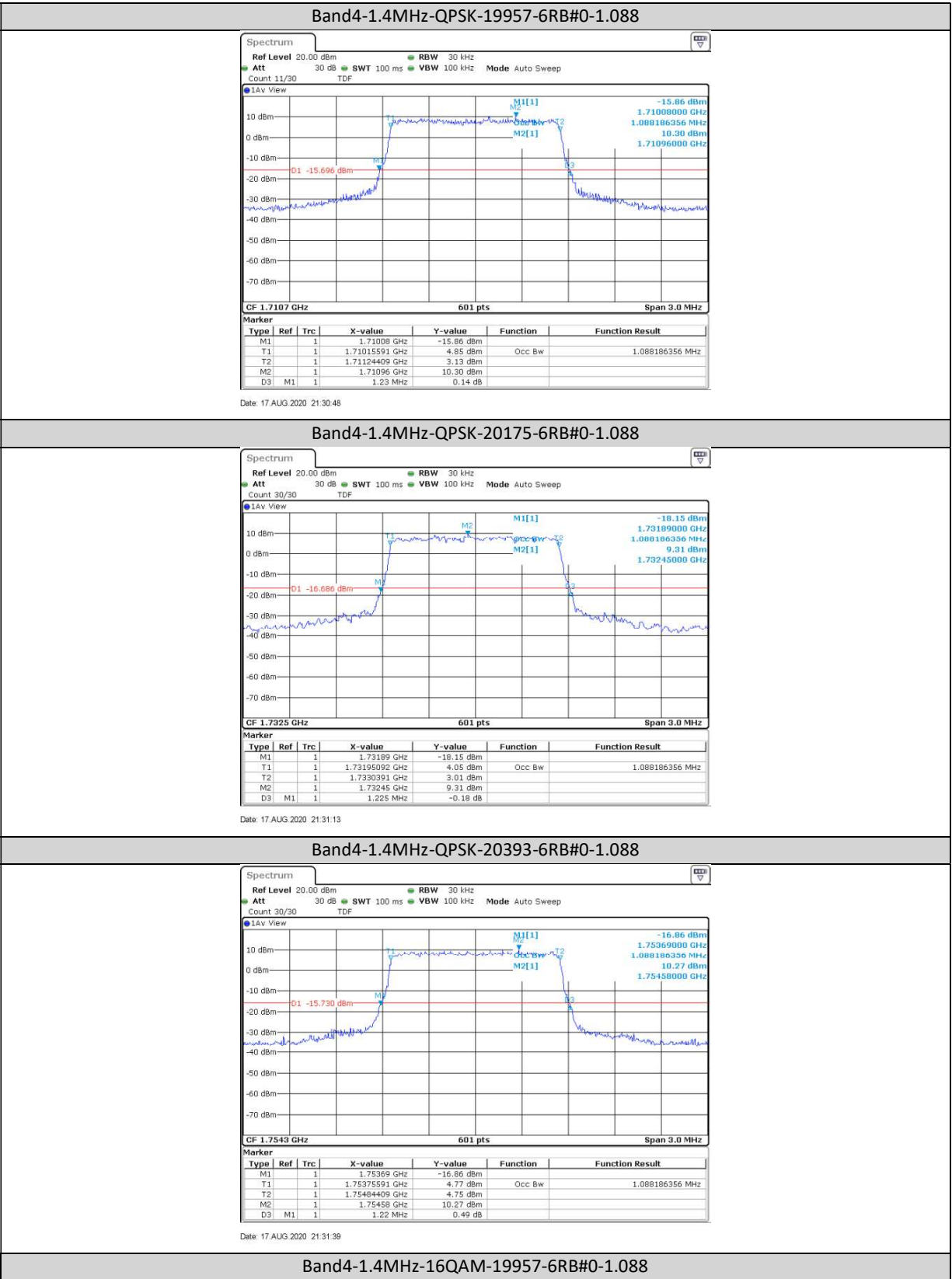


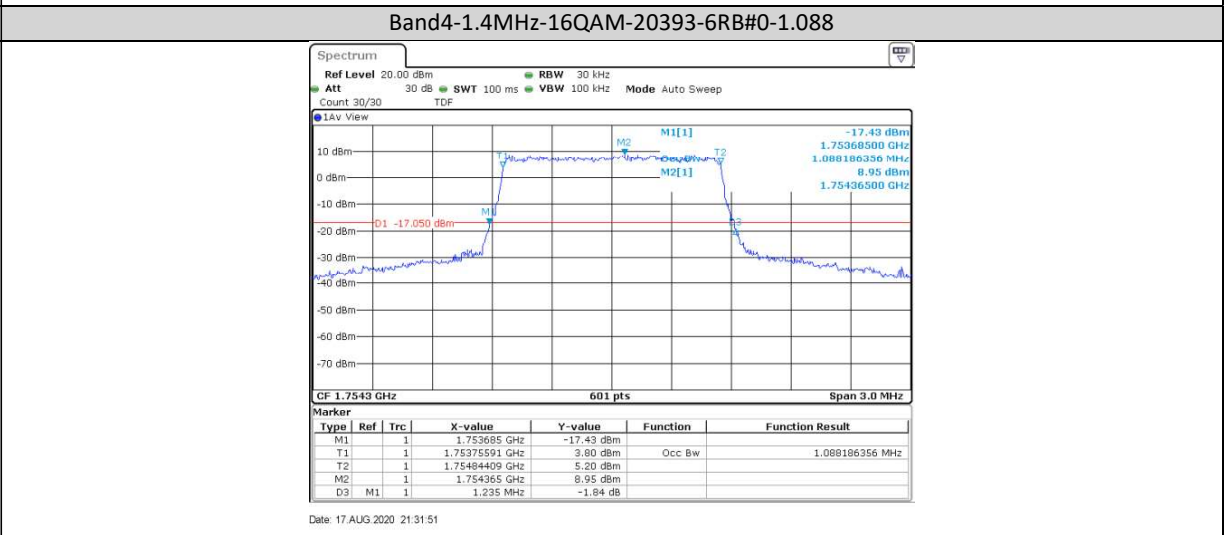
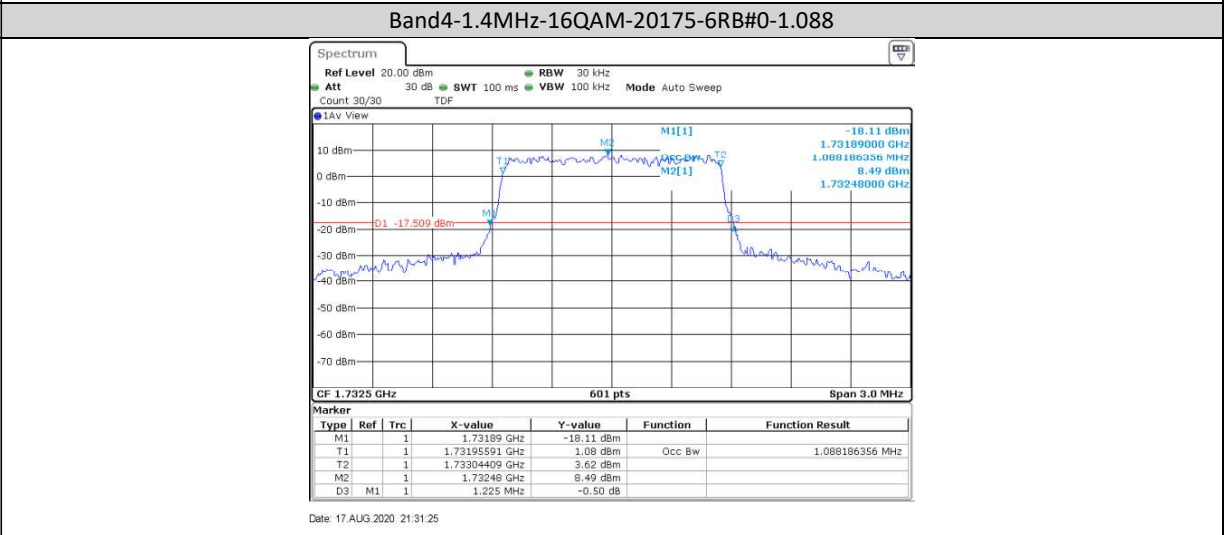
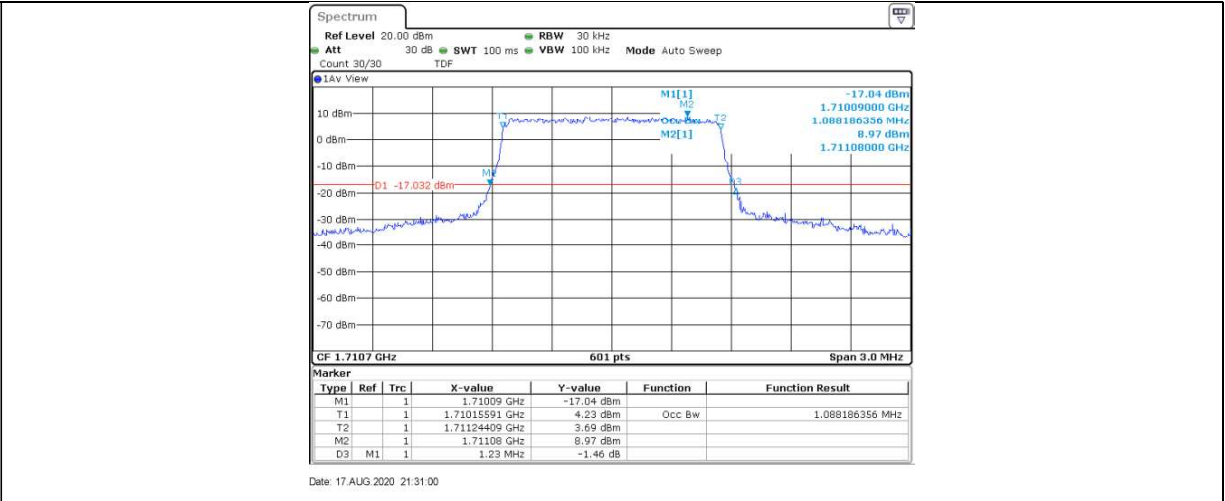
Appendix D: Bandwidth

Test Results

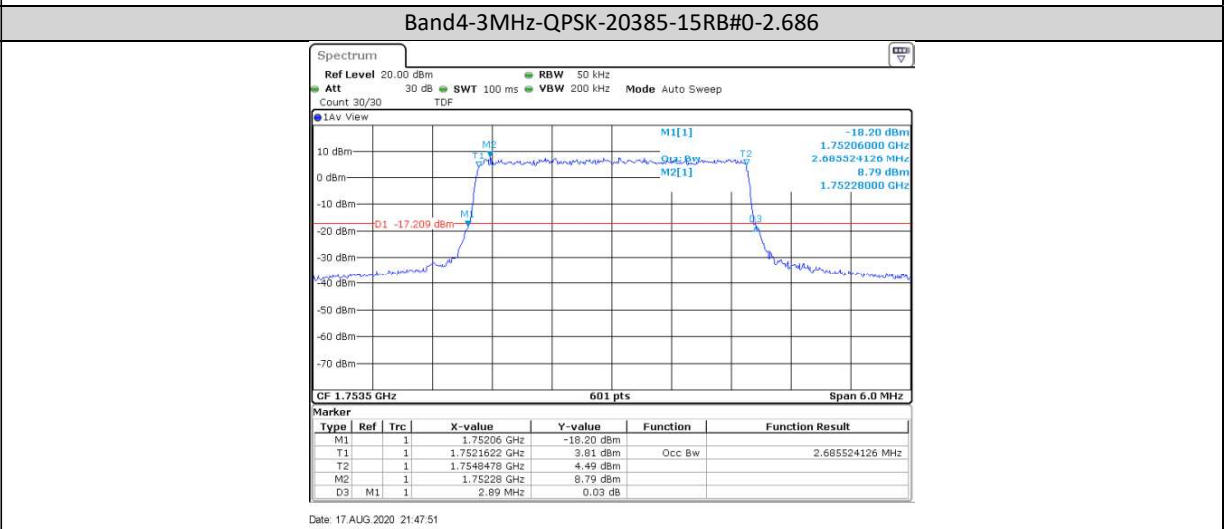
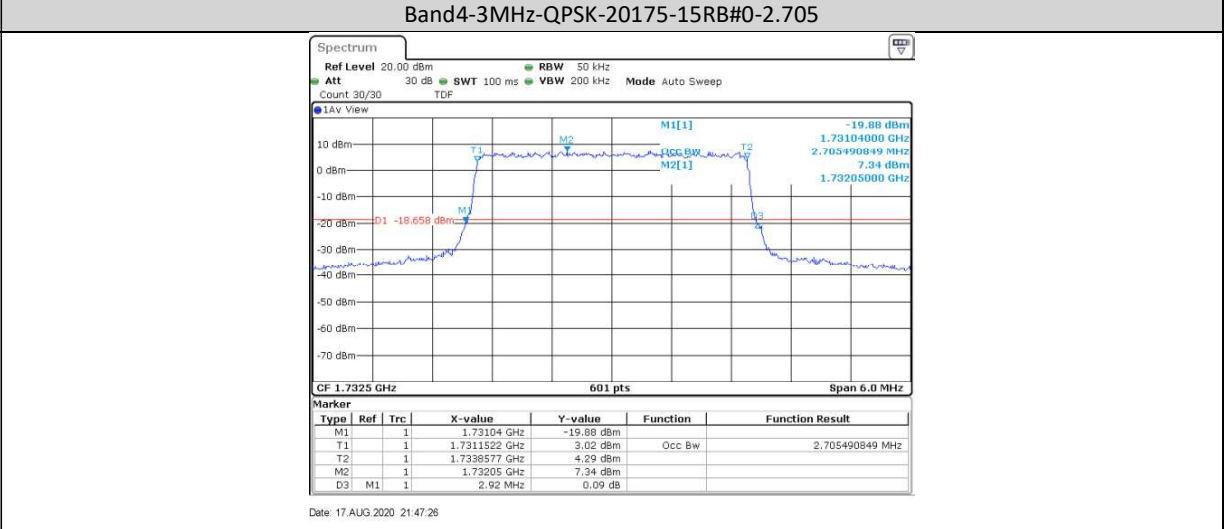
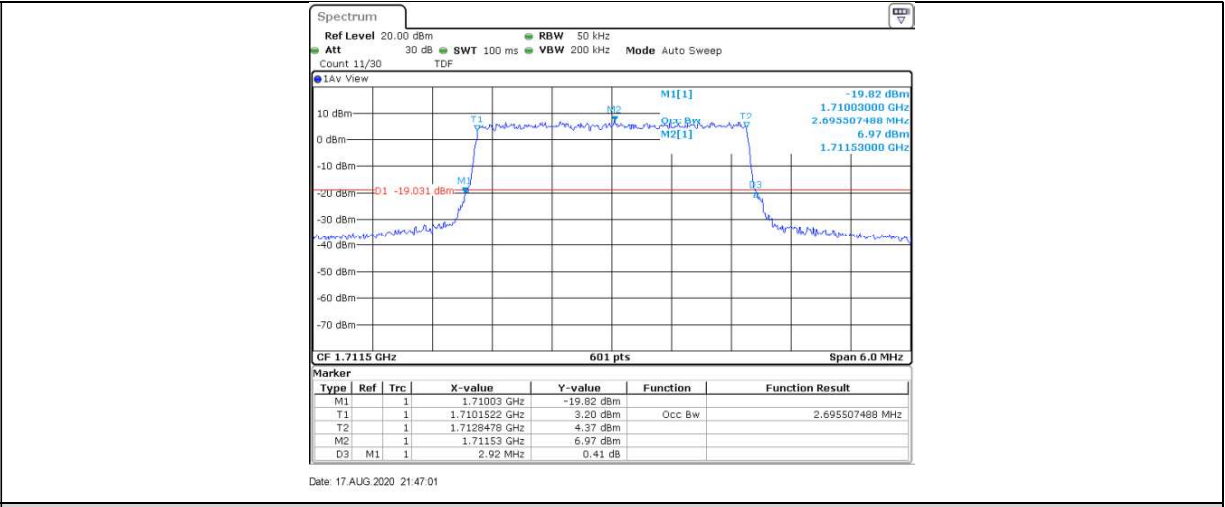
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.230	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.225	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.220	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.230	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.225	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.235	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	2.920	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.705	2.920	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.686	2.890	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	2.930	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.900	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	2.910	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.496	4.790	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.496	4.800	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.496	4.810	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.496	4.790	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.496	4.780	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.505	4.780	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.985	9.567	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.985	9.533	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.985	9.533	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.985	9.533	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.985	9.533	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.985	9.567	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.478	14.300	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.478	14.300	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.478	14.300	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.478	14.300	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.478	14.300	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.478	14.300	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.037	19.333	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.97	19.333	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.103	19.333	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.037	19.333	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.037	19.333	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.103	19.333	PASS

Test Plots

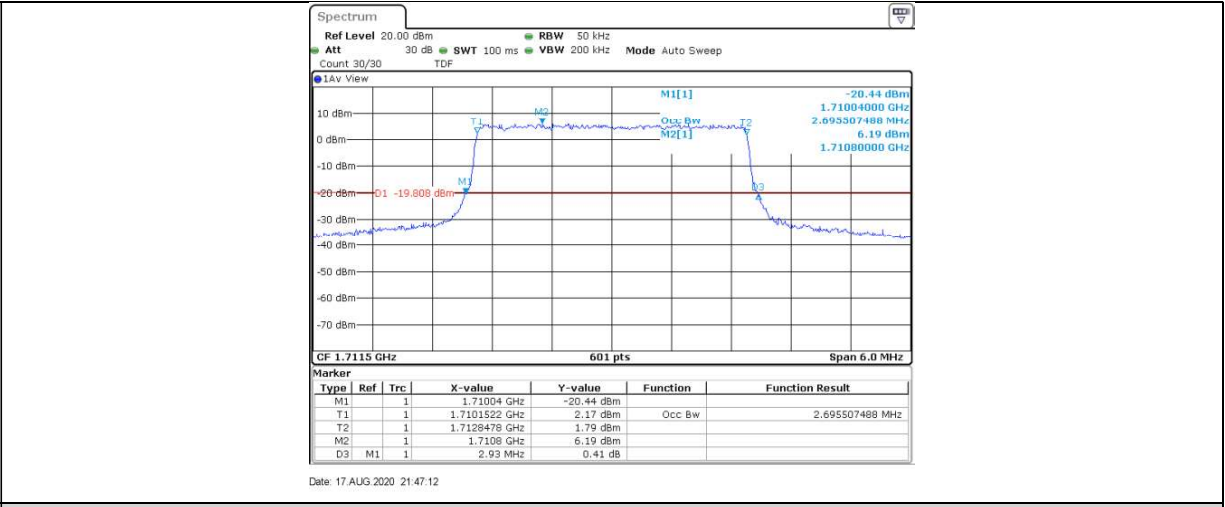




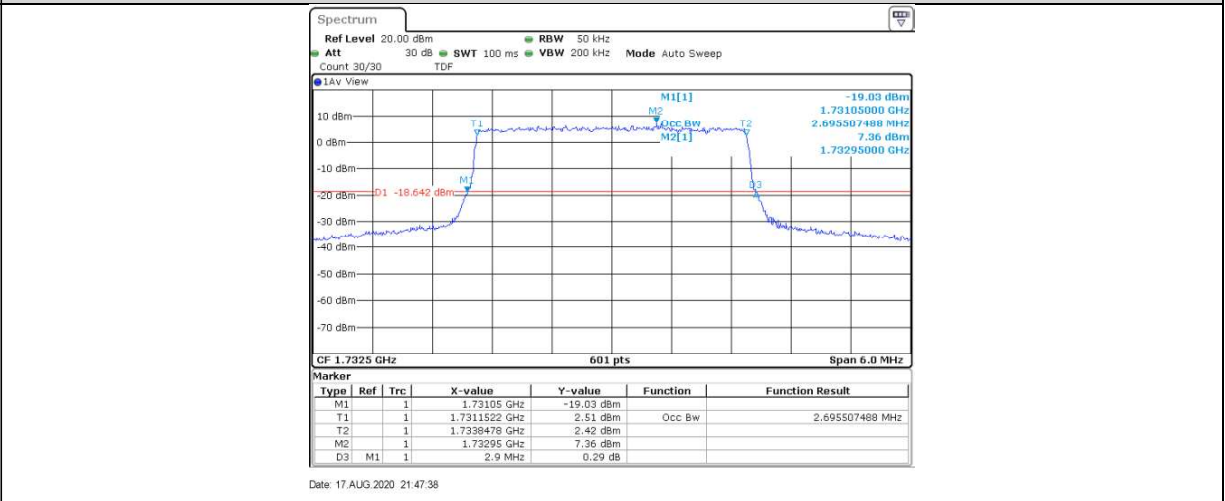
Band4-3MHz-QPSK-19965-15RB#0-2.696



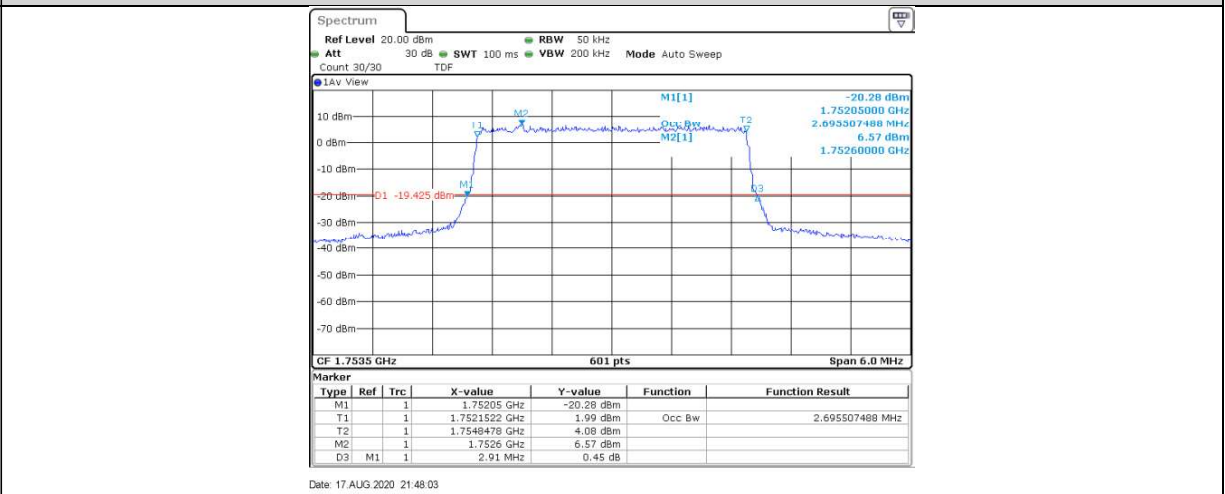
Band4-3MHz-16QAM-19965-15RB#0-2.696



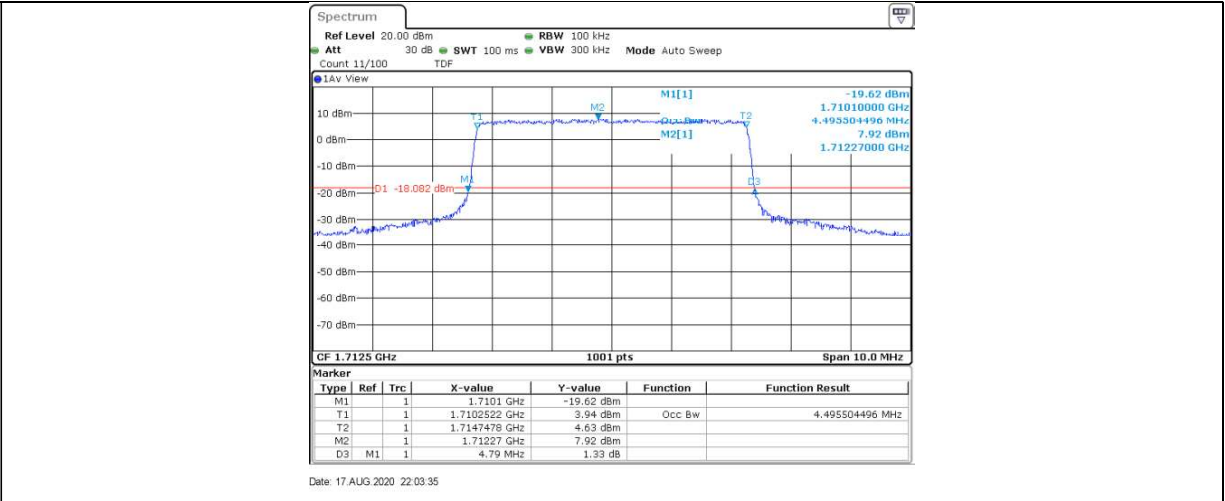
Band4-3MHz-16QAM-20175-15RB#0-2.696



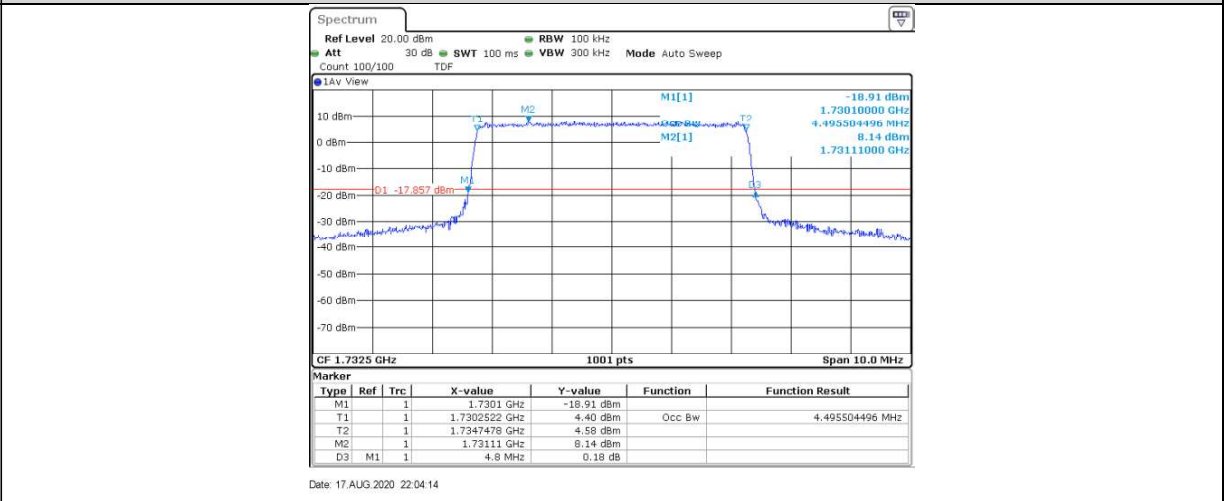
Band4-3MHz-16QAM-20385-15RB#0-2.696



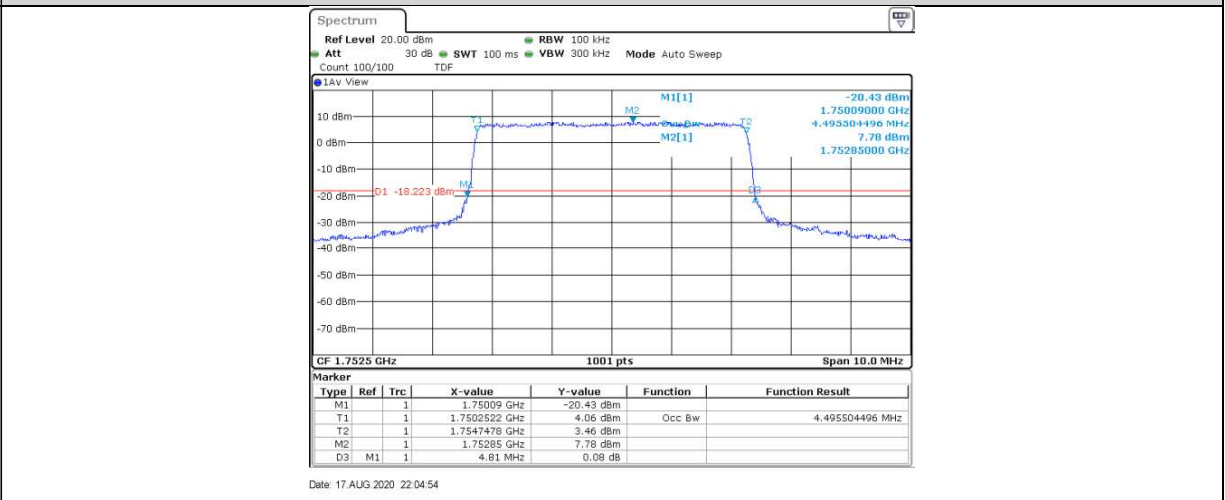
Band4-5MHz-QPSK-19975-25RB#0-4.496



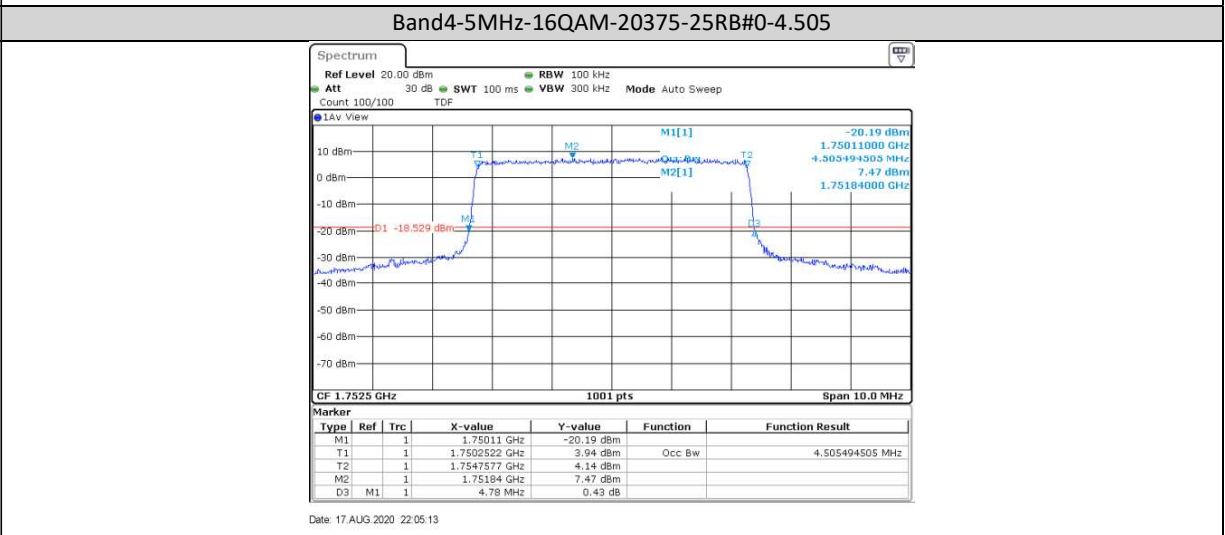
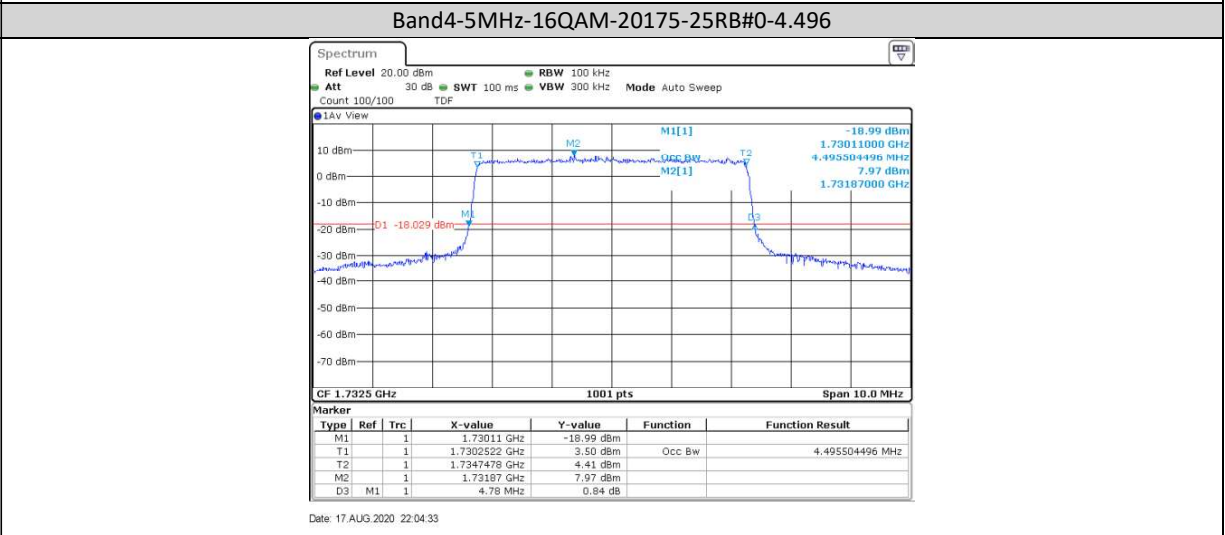
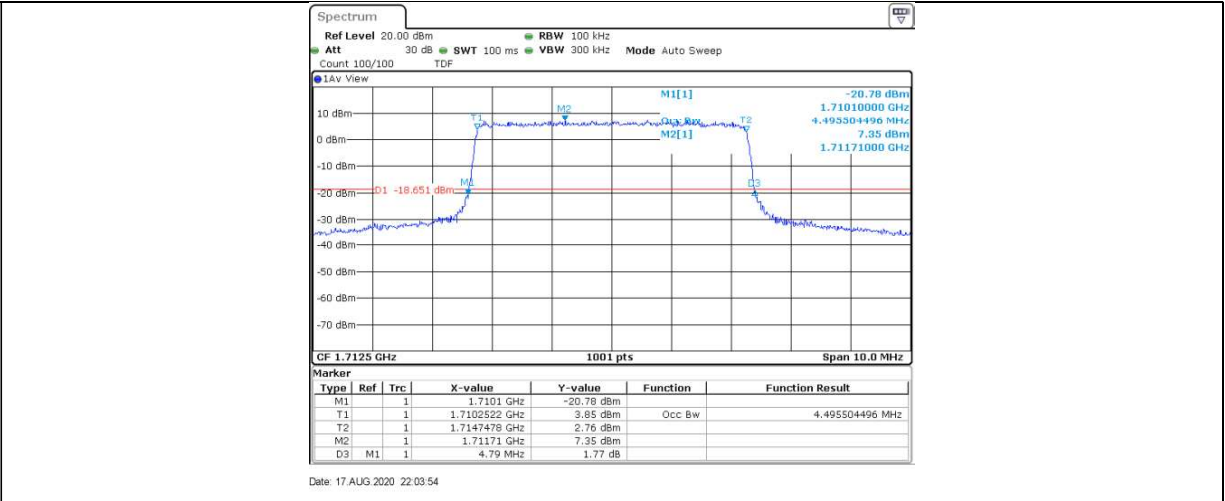
Band4-5MHz-QPSK-20175-25RB#0-4.496

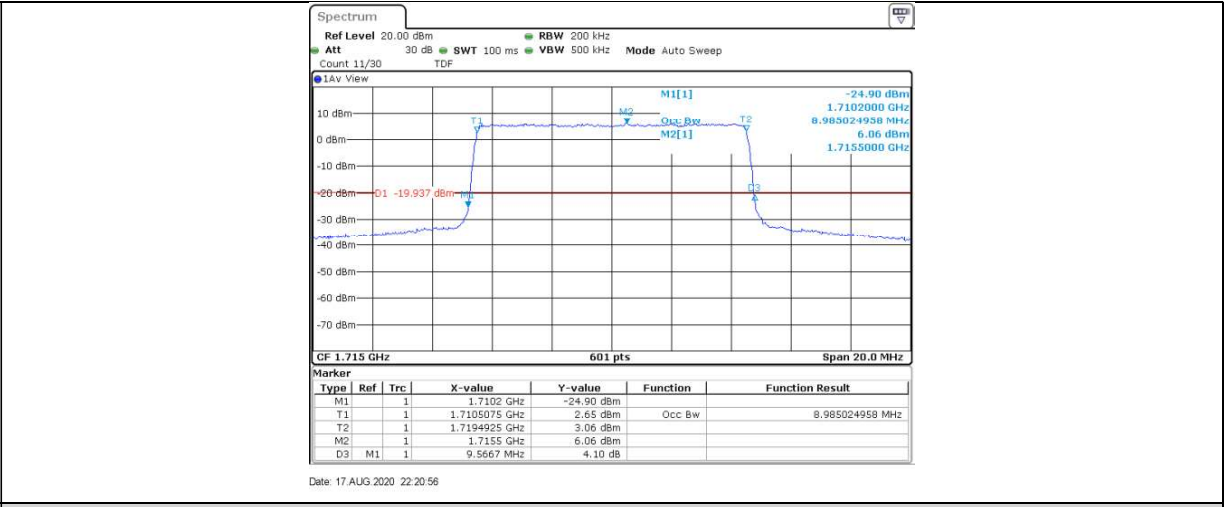


Band4-5MHz-QPSK-20375-25RB#0-4.496

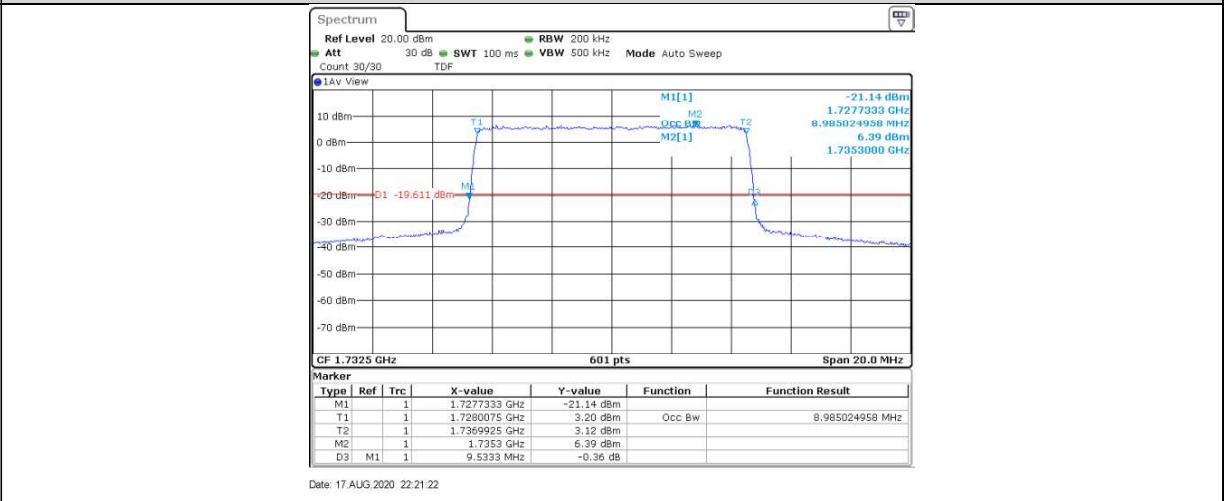


Band4-5MHz-16QAM-19975-25RB#0-4.496

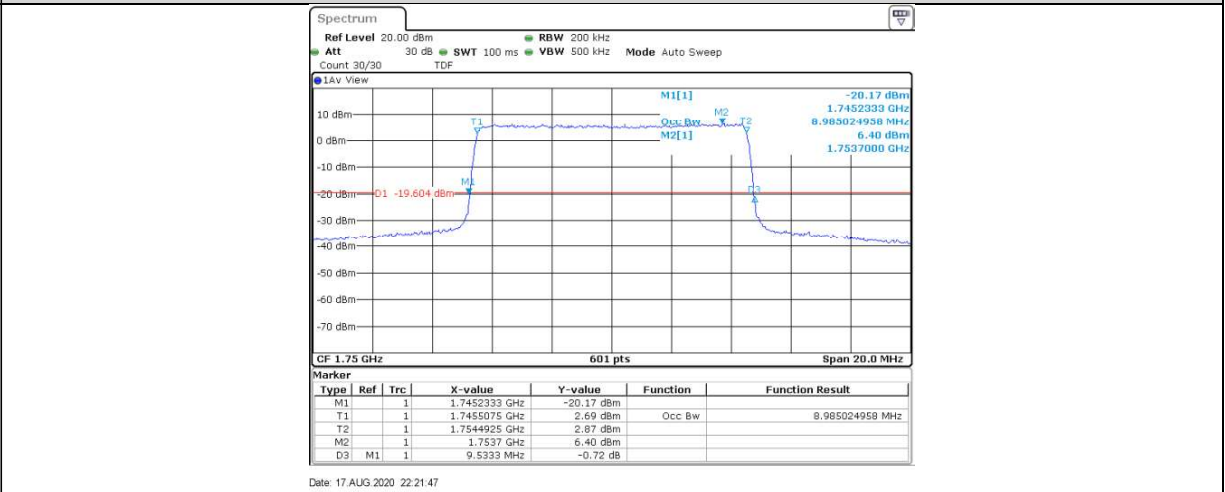




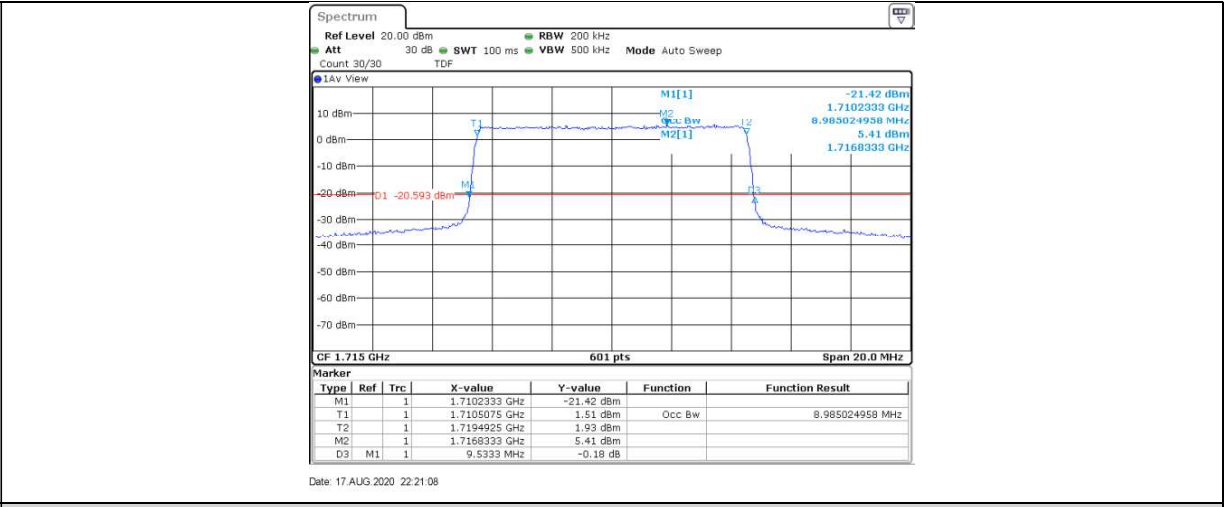
Band4-10MHz-QPSK-20175-50RB#0-8.985



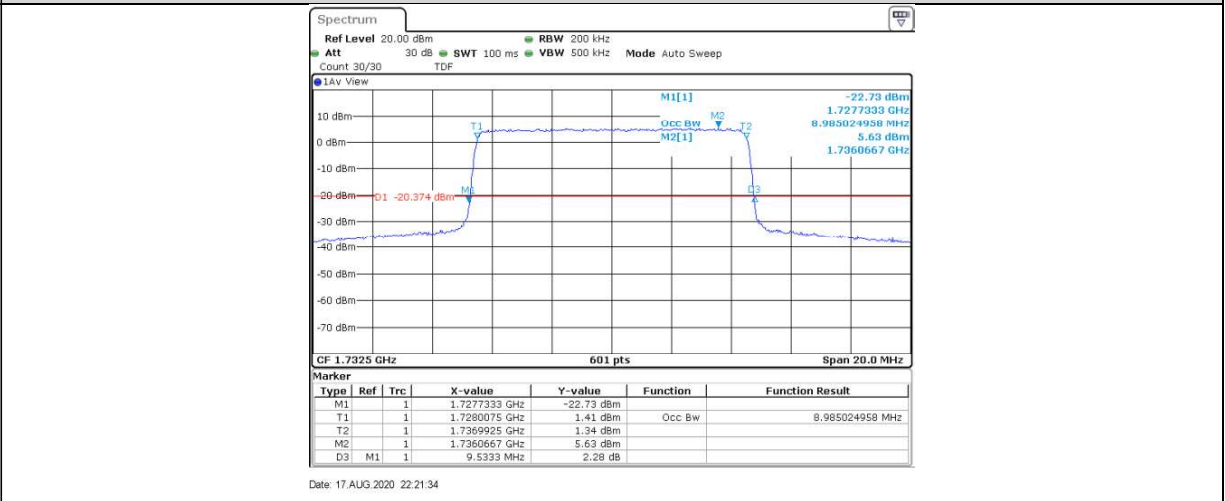
Band4-10MHz-QPSK-20350-50RB#0-8.985



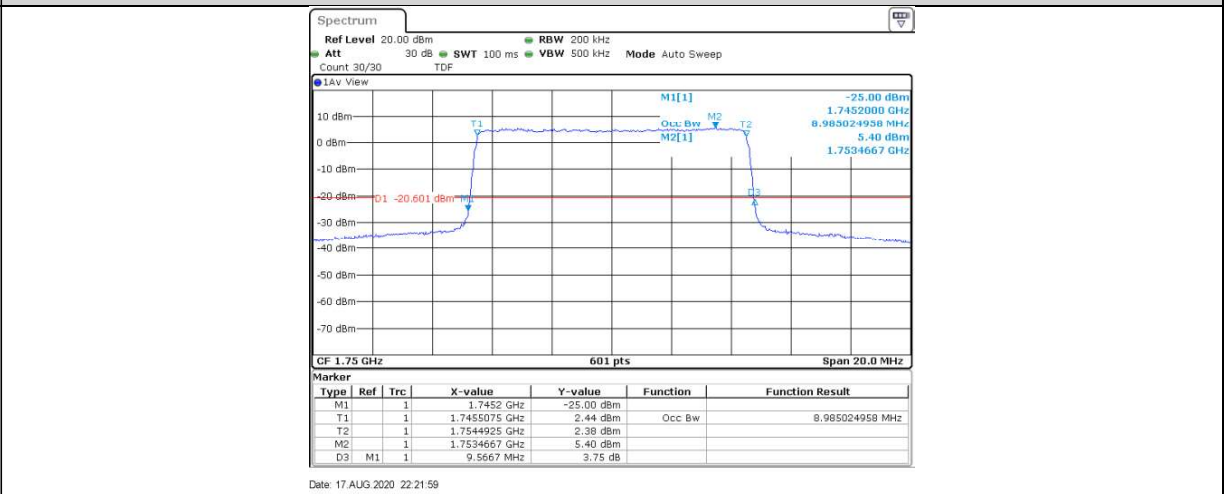
Band4-10MHz-16QAM-20000-50RB#0-8.985



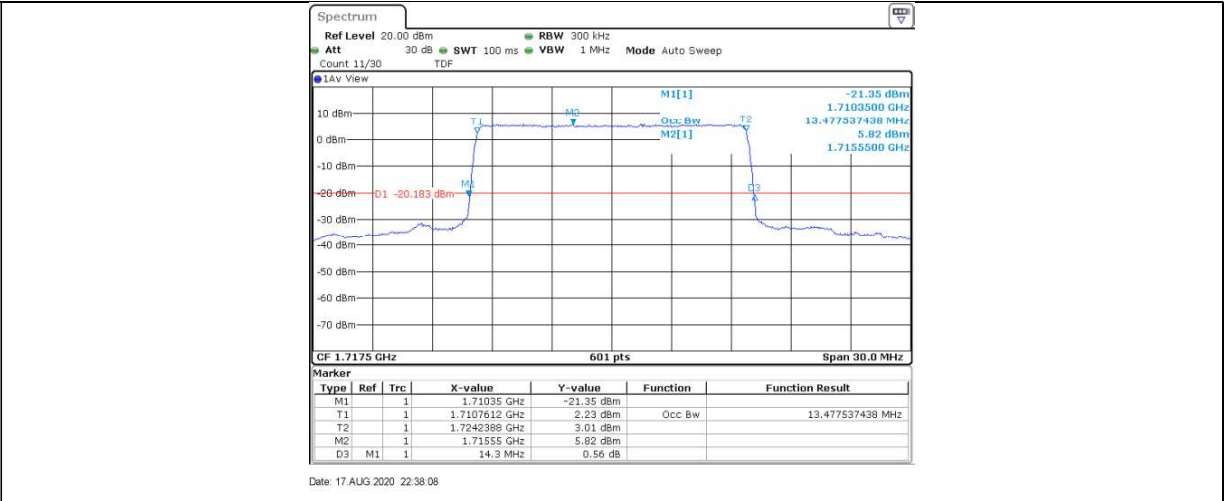
Band4-10MHz-16QAM-20175-50RB#0-8.985



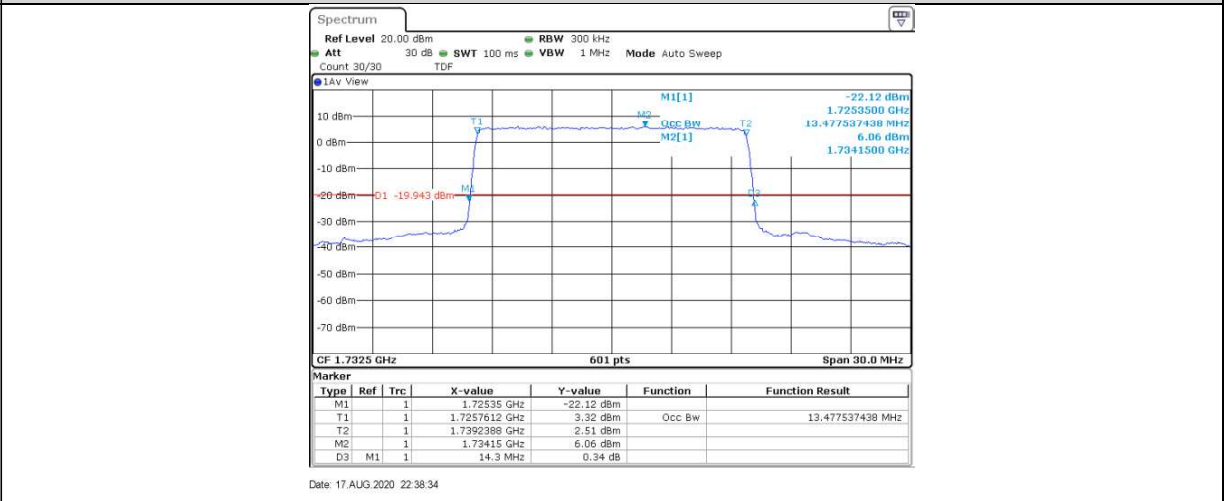
Band4-10MHz-16QAM-20350-50RB#0-8.985



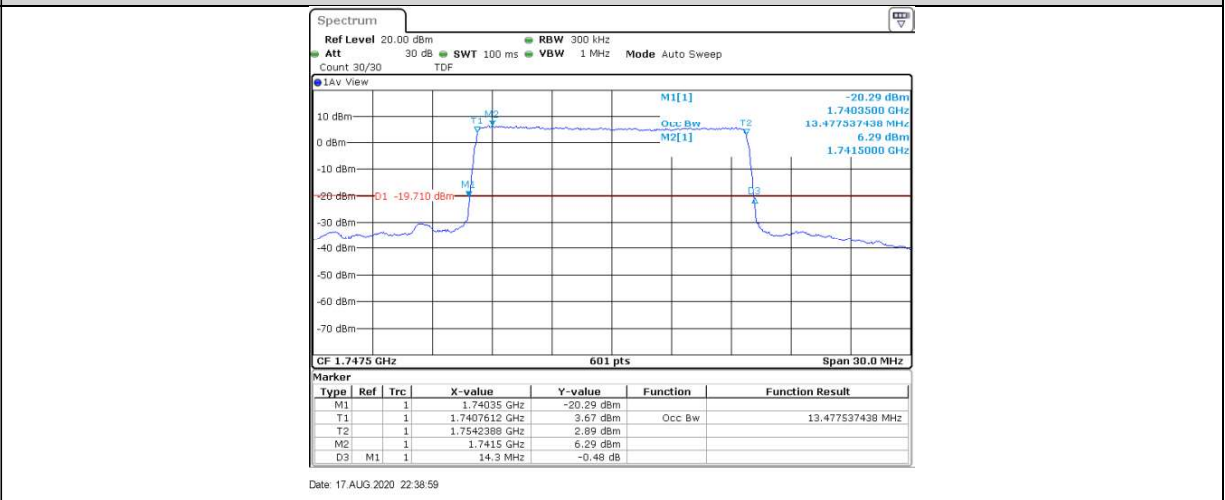
Band4-15MHz-QPSK-20025-75RB#0-13.478



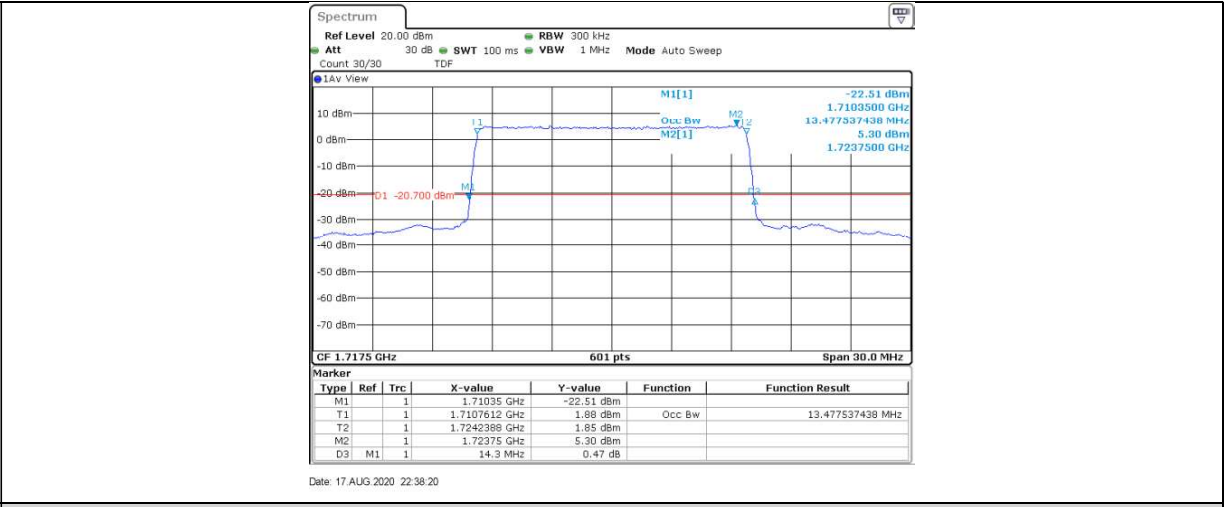
Band4-15MHz-QPSK-20175-75RB#0-13.478



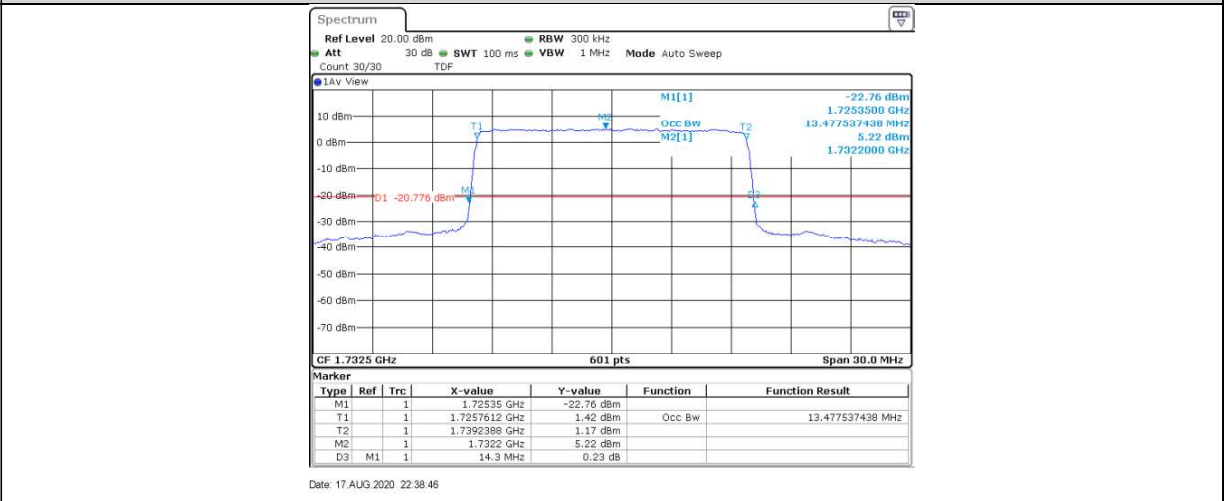
Band4-15MHz-QPSK-20325-75RB#0-13.478



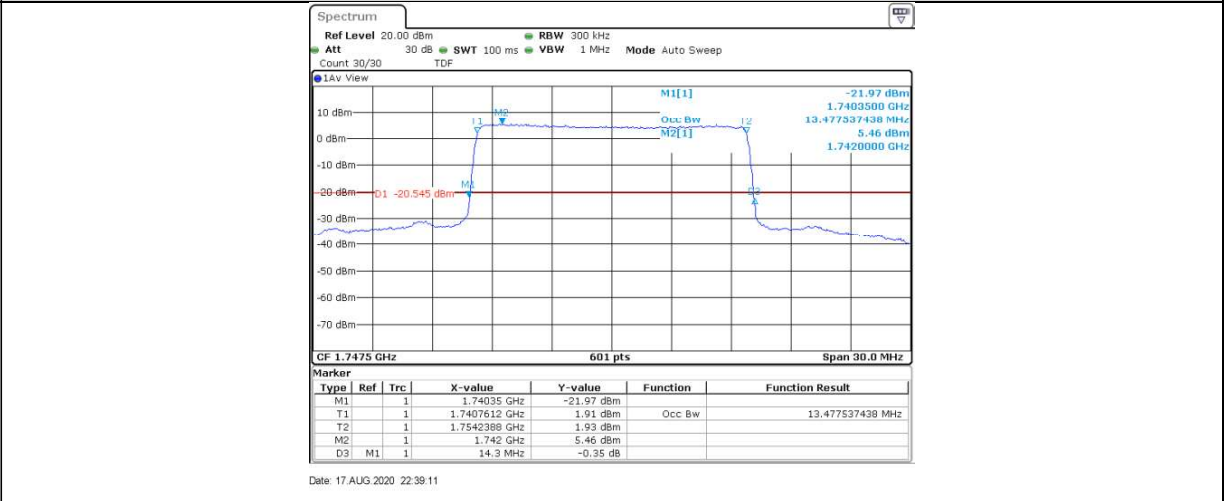
Band4-15MHz-16QAM-20025-75RB#0-13.478



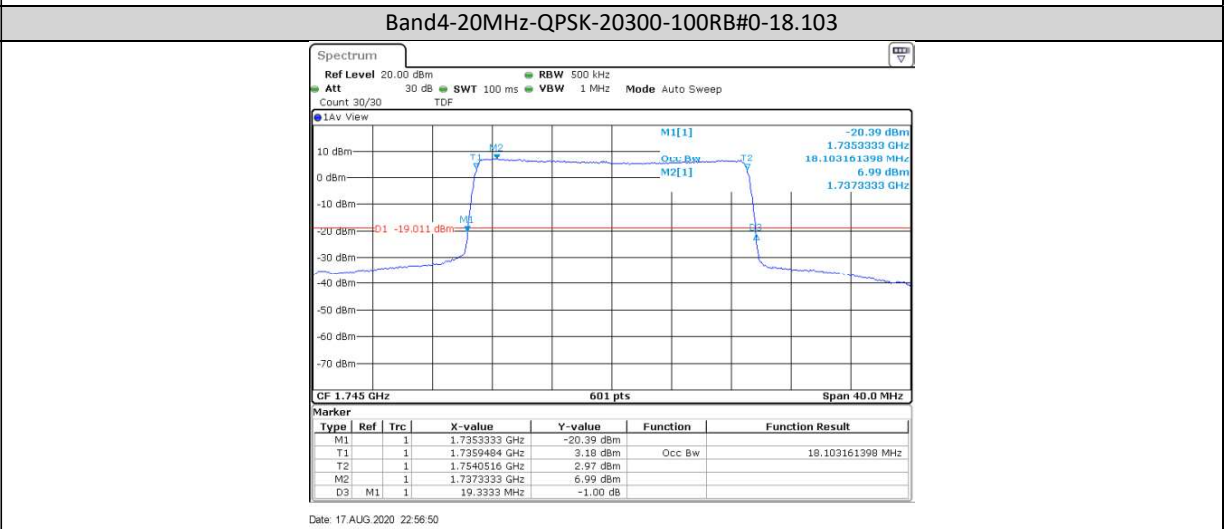
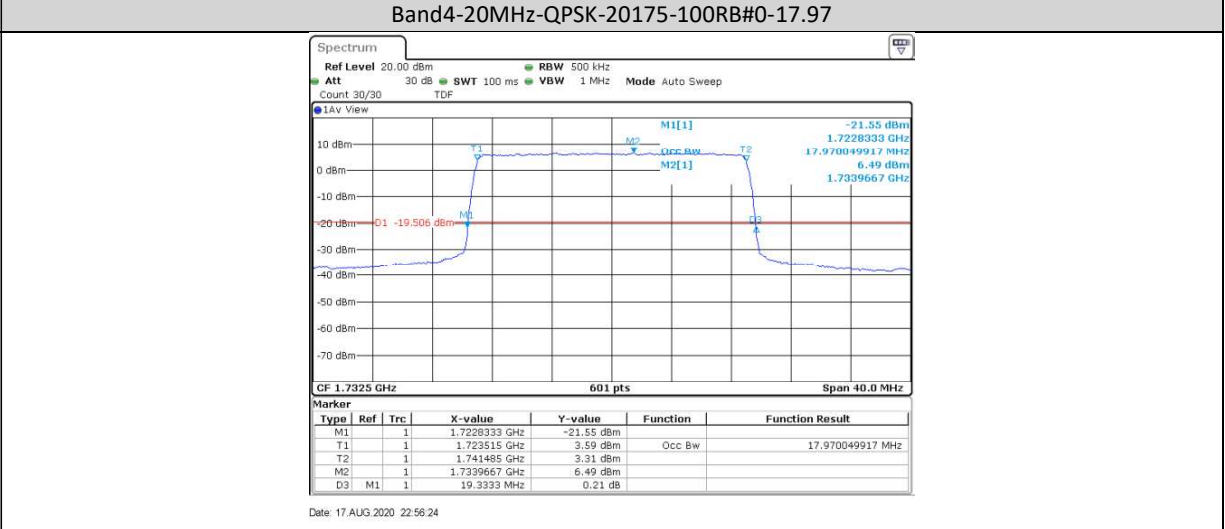
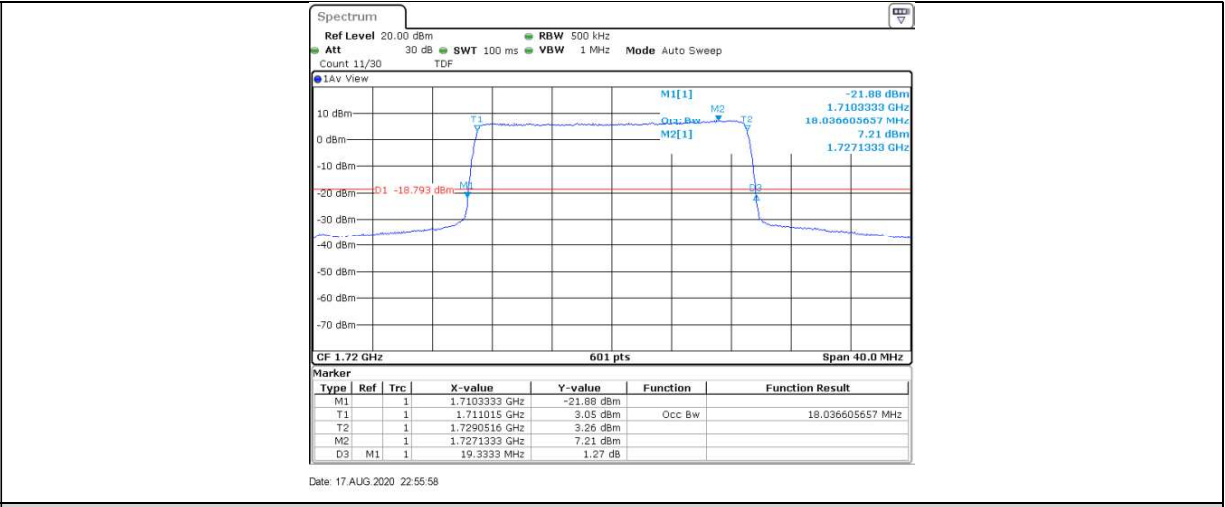
Band4-15MHz-16QAM-20175-75RB#0-13.478



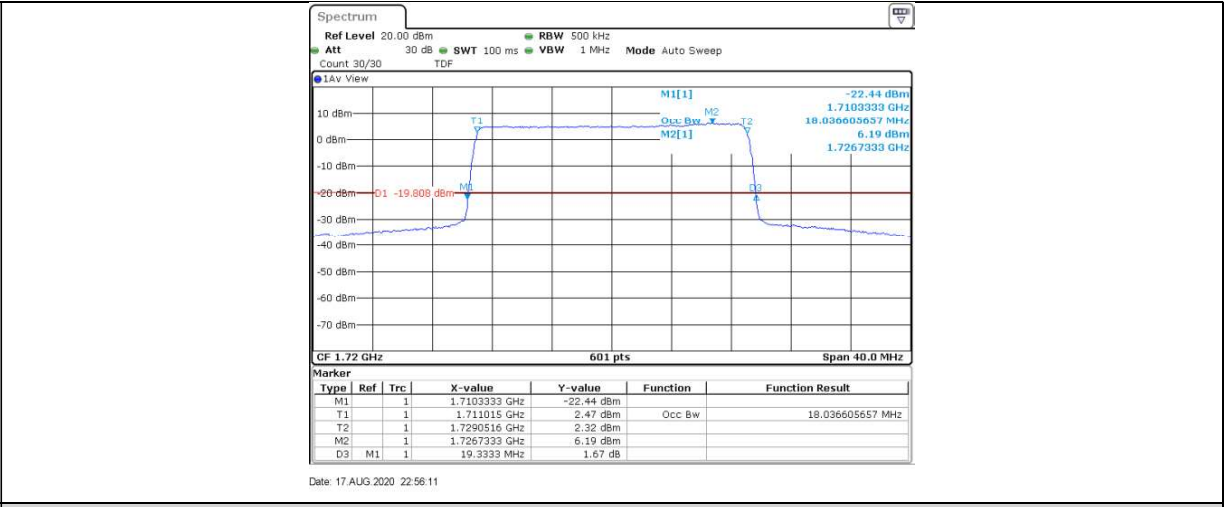
Band4-15MHz-16QAM-20325-75RB#0-13.478



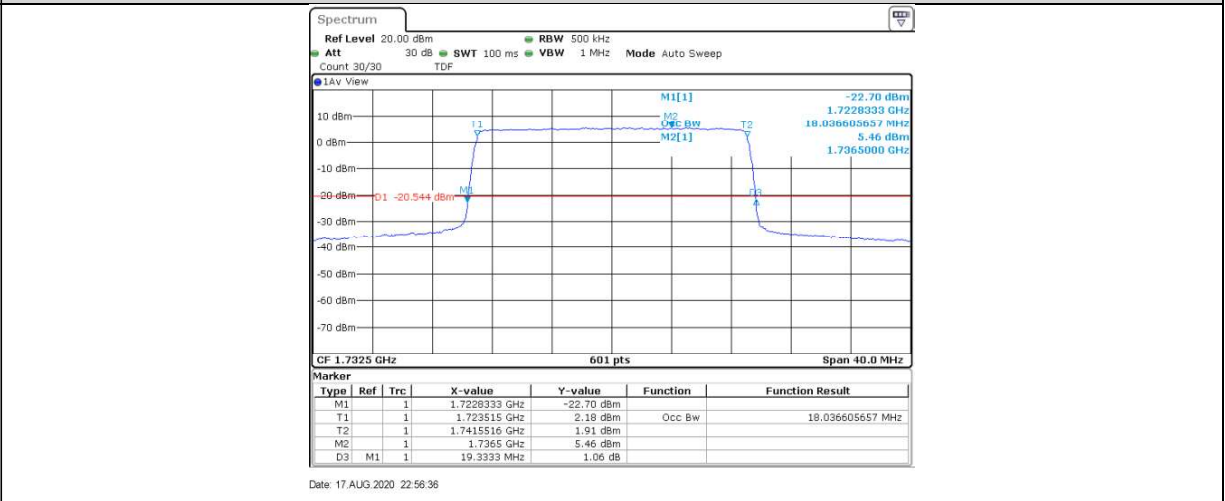
Band4-20MHz-QPSK-20050-100RB#0-18.037



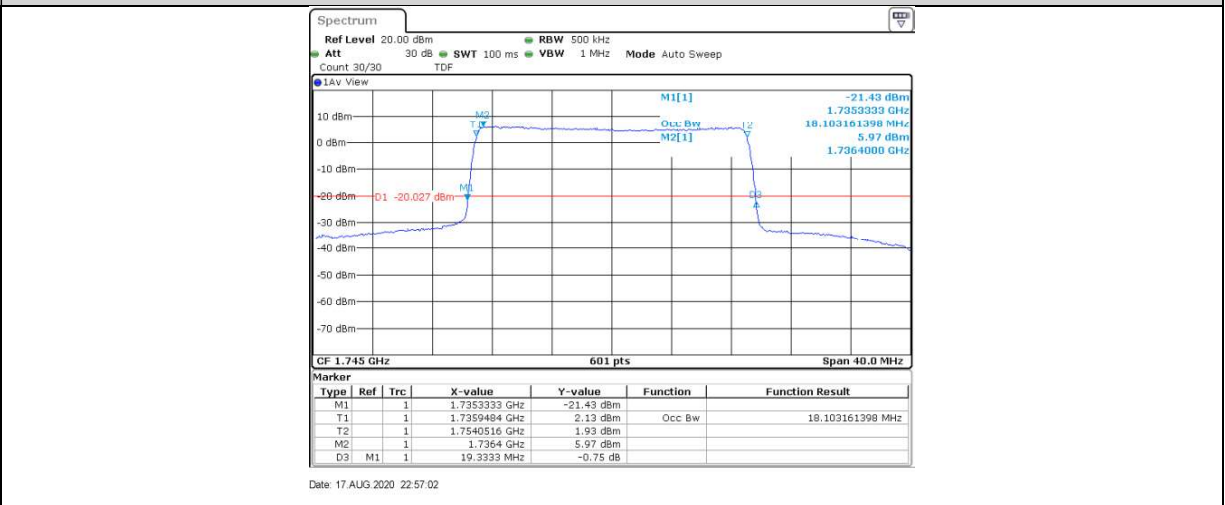
Band4-20MHz-16QAM-20050-100RB#0-18.037



Band4-20MHz-16QAM-20175-100RB#0-18.037



Band4-20MHz-16QAM-20300-100RB#0-18.103



Appendix E: Band Edges Compliance

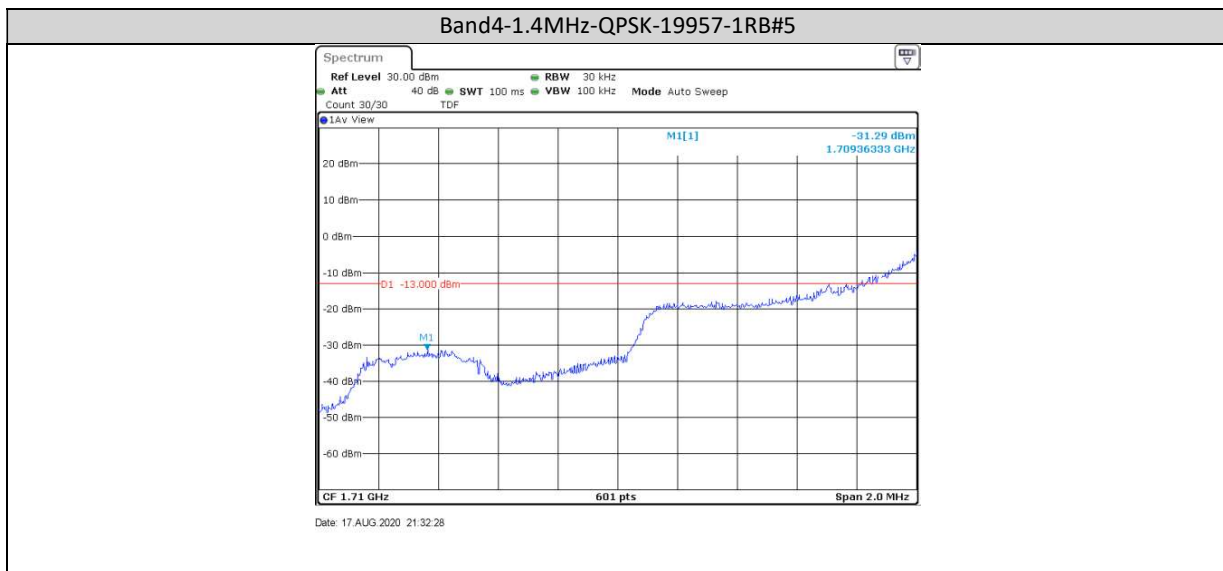
Test Plots

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#5	-31.29	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	-19.08	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-25.74	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-30.43	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-20.53	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-27.90	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-20.72	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-32.26	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-26.77	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-20.34	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-29.87	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-24.78	PASS
Band4	3MHz	QPSK	19965	1RB#0	-13.17	PASS
Band4	3MHz	QPSK	19965	1RB#14	-28.19	PASS
Band4	3MHz	QPSK	19965	15RB#0	-22.58	PASS
Band4	3MHz	QPSK	20385	1RB#14	-13.81	PASS
Band4	3MHz	QPSK	20385	1RB#0	-26.45	PASS
Band4	3MHz	QPSK	20385	15RB#0	-22.68	PASS
Band4	3MHz	16QAM	19965	1RB#14	-29.59	PASS
Band4	3MHz	16QAM	19965	1RB#0	-13.85	PASS
Band4	3MHz	16QAM	19965	15RB#0	-22.20	PASS
Band4	3MHz	16QAM	20385	1RB#0	-27.67	PASS
Band4	3MHz	16QAM	20385	1RB#14	-13.52	PASS
Band4	3MHz	16QAM	20385	15RB#0	-23.38	PASS
Band4	5MHz	QPSK	19975	1RB#0	-17.37	PASS
Band4	5MHz	QPSK	19975	1RB#24	-34.21	PASS
Band4	5MHz	QPSK	19975	25RB#0	-26.17	PASS
Band4	5MHz	QPSK	20375	1RB#0	-33.51	PASS
Band4	5MHz	QPSK	20375	1RB#24	-17.99	PASS
Band4	5MHz	QPSK	20375	25RB#0	-26.73	PASS
Band4	5MHz	16QAM	19975	1RB#0	-20.34	PASS
Band4	5MHz	16QAM	19975	1RB#24	-35.02	PASS
Band4	5MHz	16QAM	19975	25RB#0	-27.49	PASS
Band4	5MHz	16QAM	20375	1RB#24	-17.40	PASS
Band4	5MHz	16QAM	20375	1RB#0	-35.28	PASS
Band4	5MHz	16QAM	20375	25RB#0	-26.51	PASS
Band4	10MHz	QPSK	20000	1RB#0	-23.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	-38.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	-30.44	PASS
Band4	10MHz	QPSK	20350	1RB#49	-24.06	PASS
Band4	10MHz	QPSK	20350	1RB#0	-37.22	PASS
Band4	10MHz	QPSK	20350	50RB#0	-30.80	PASS
Band4	10MHz	16QAM	20000	1RB#49	-39.30	PASS
Band4	10MHz	16QAM	20000	1RB#0	-24.48	PASS

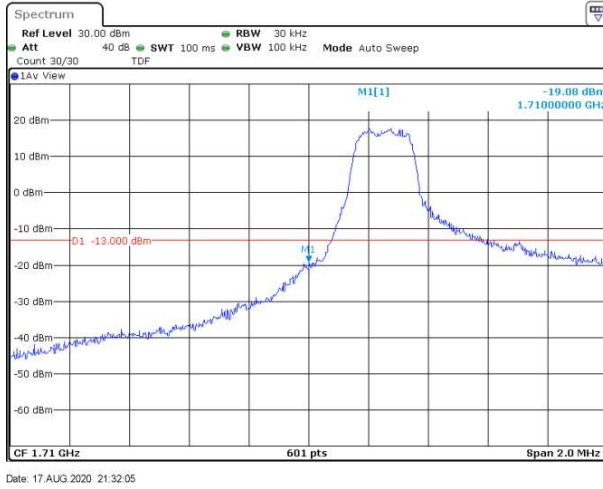
Total Quality. Assured.

Band4	10MHz	16QAM	20000	50RB#0	-29.36	PASS
Band4	10MHz	16QAM	20350	1RB#0	-38.20	PASS
Band4	10MHz	16QAM	20350	1RB#49	-25.31	PASS
Band4	10MHz	16QAM	20350	50RB#0	-30.57	PASS
Band4	15MHz	QPSK	20025	1RB#0	-25.77	PASS
Band4	15MHz	QPSK	20025	1RB#74	-39.81	PASS
Band4	15MHz	QPSK	20025	75RB#0	-30.61	PASS
Band4	15MHz	QPSK	20325	1RB#0	-39.45	PASS
Band4	15MHz	QPSK	20325	1RB#74	-25.57	PASS
Band4	15MHz	QPSK	20325	75RB#0	-30.92	PASS
Band4	15MHz	16QAM	20025	1RB#0	-25.67	PASS
Band4	15MHz	16QAM	20025	1RB#74	-39.46	PASS
Band4	15MHz	16QAM	20025	75RB#0	-30.62	PASS
Band4	15MHz	16QAM	20325	1RB#0	-39.16	PASS
Band4	15MHz	16QAM	20325	1RB#74	-25.33	PASS
Band4	15MHz	16QAM	20325	75RB#0	-30.91	PASS
Band4	20MHz	QPSK	20050	1RB#99	-38.27	PASS
Band4	20MHz	QPSK	20050	1RB#0	-25.22	PASS
Band4	20MHz	QPSK	20050	100RB#0	-29.90	PASS
Band4	20MHz	QPSK	20300	1RB#99	-23.86	PASS
Band4	20MHz	QPSK	20300	1RB#0	-27.37	PASS
Band4	20MHz	QPSK	20300	100RB#0	-31.96	PASS
Band4	20MHz	16QAM	20050	1RB#0	-24.98	PASS
Band4	20MHz	16QAM	20050	1RB#99	-38.62	PASS
Band4	20MHz	16QAM	20050	100RB#0	-29.82	PASS
Band4	20MHz	16QAM	20300	1RB#0	-28.45	PASS
Band4	20MHz	16QAM	20300	1RB#99	-25.39	PASS
Band4	20MHz	16QAM	20300	100RB#0	-31.18	PASS

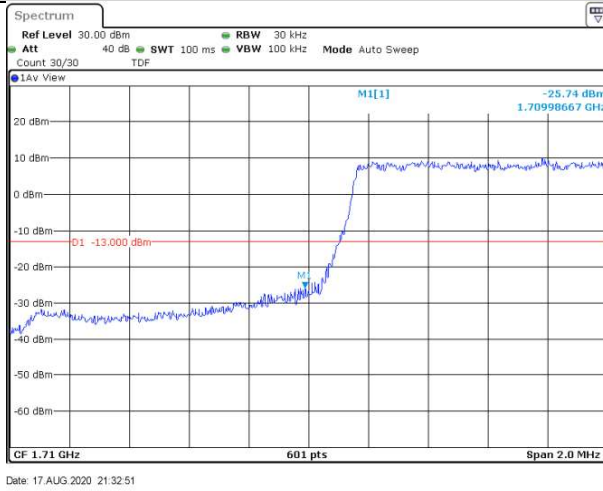
Test Graphs



Band4-1.4MHz-QPSK-19957-1RB#0



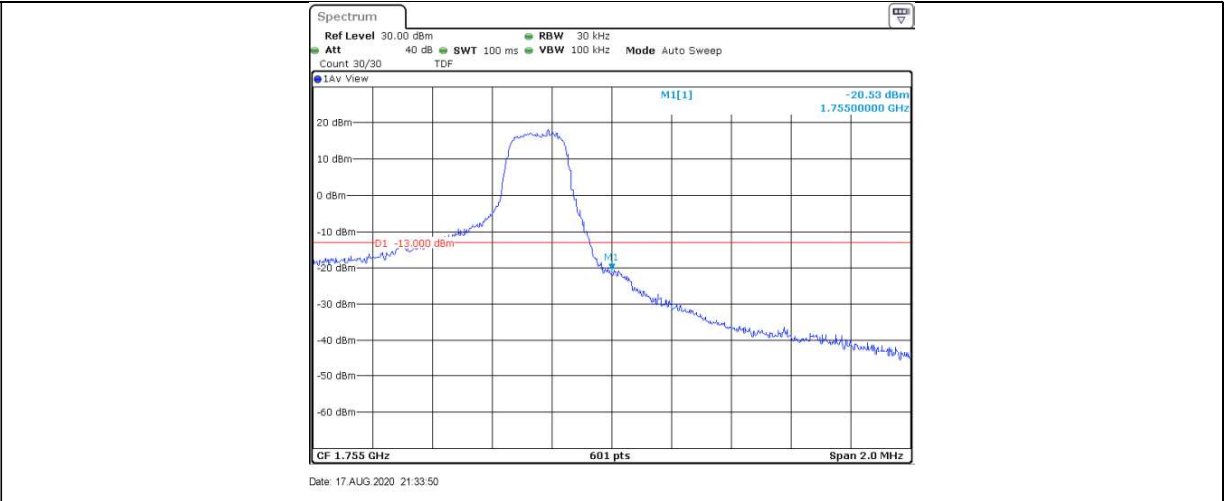
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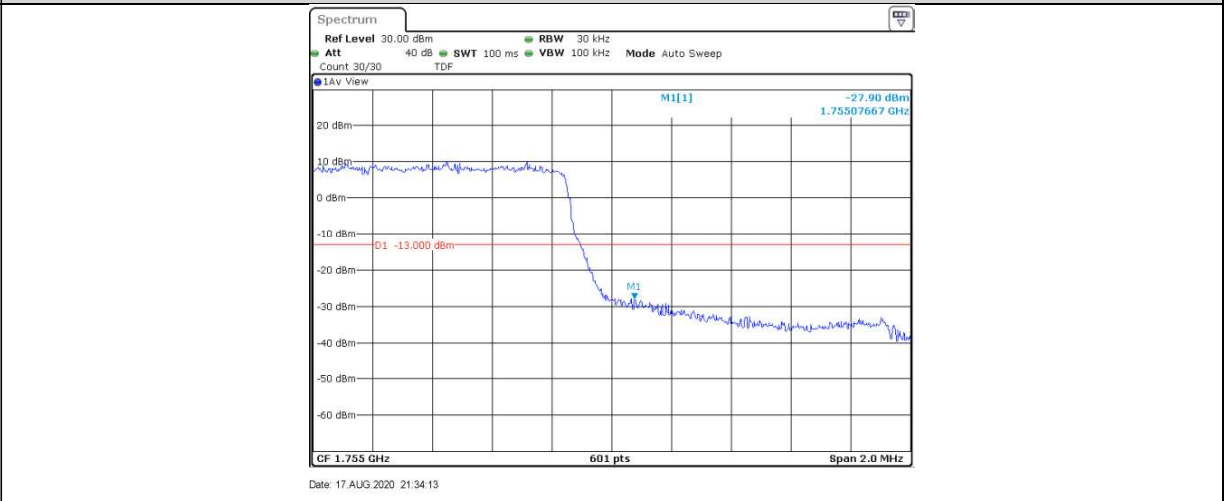
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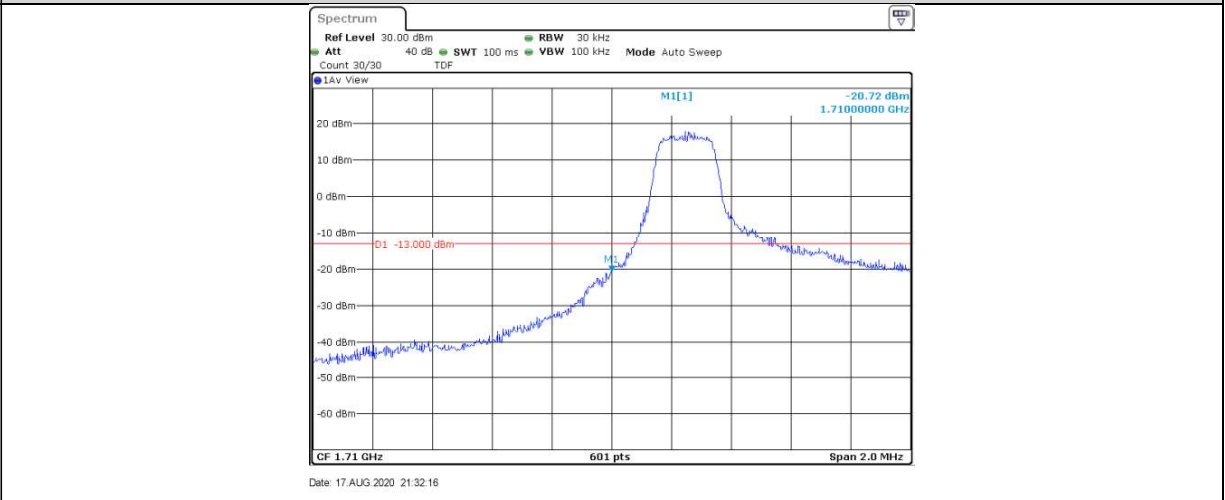
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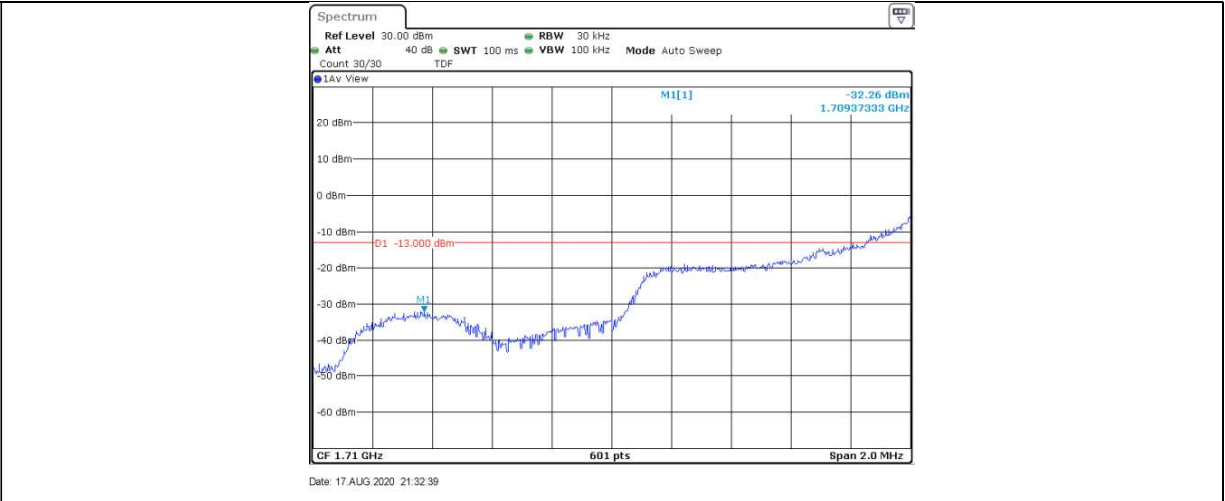
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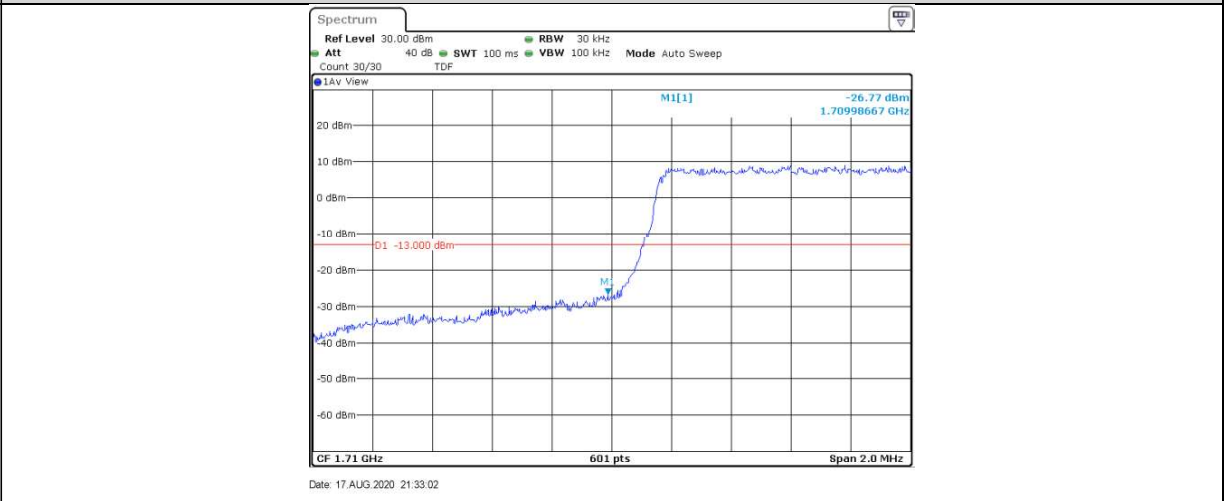
Band4-1.4MHz-16QAM-19957-1RB#0



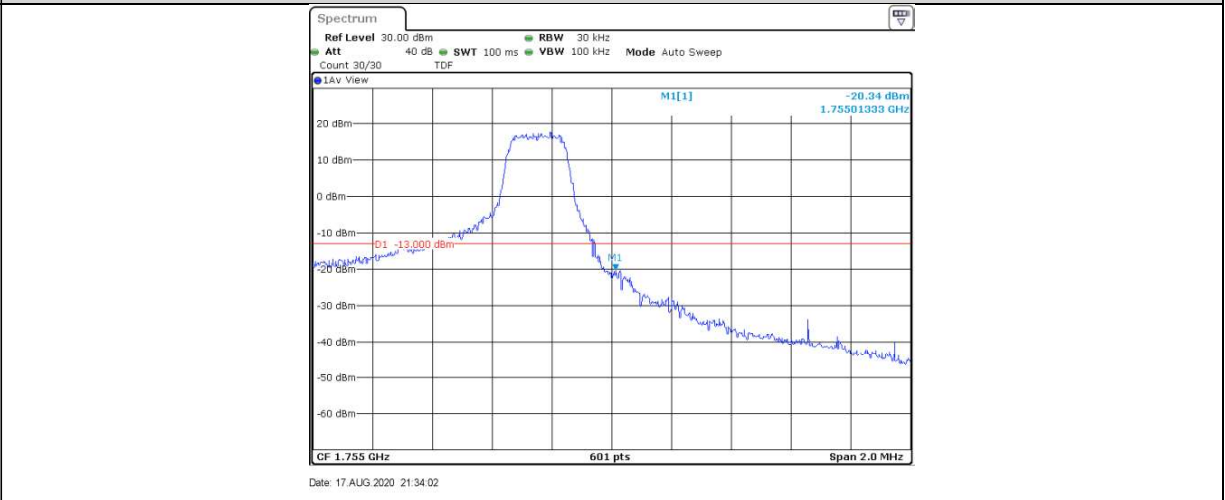
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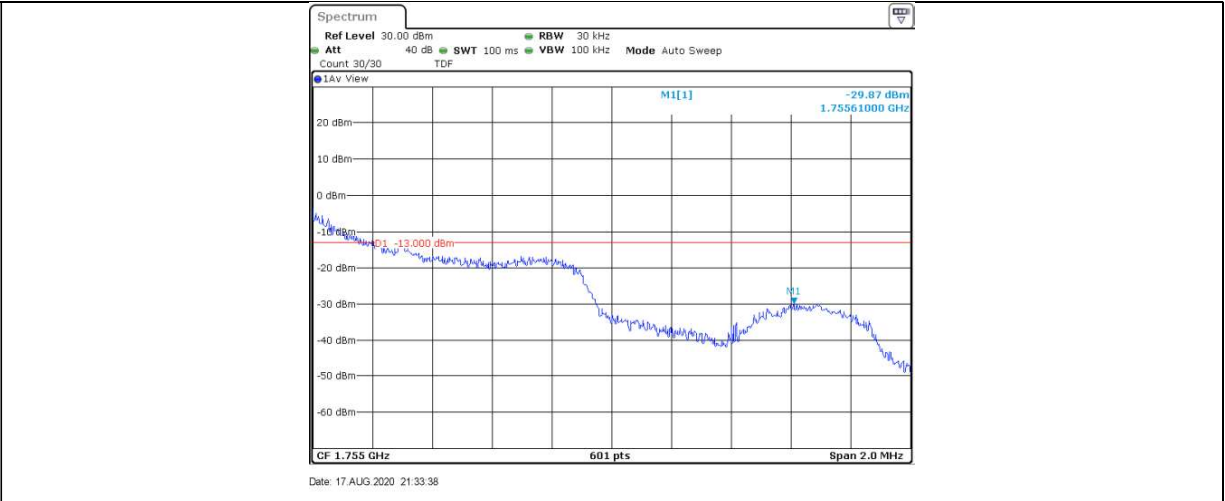
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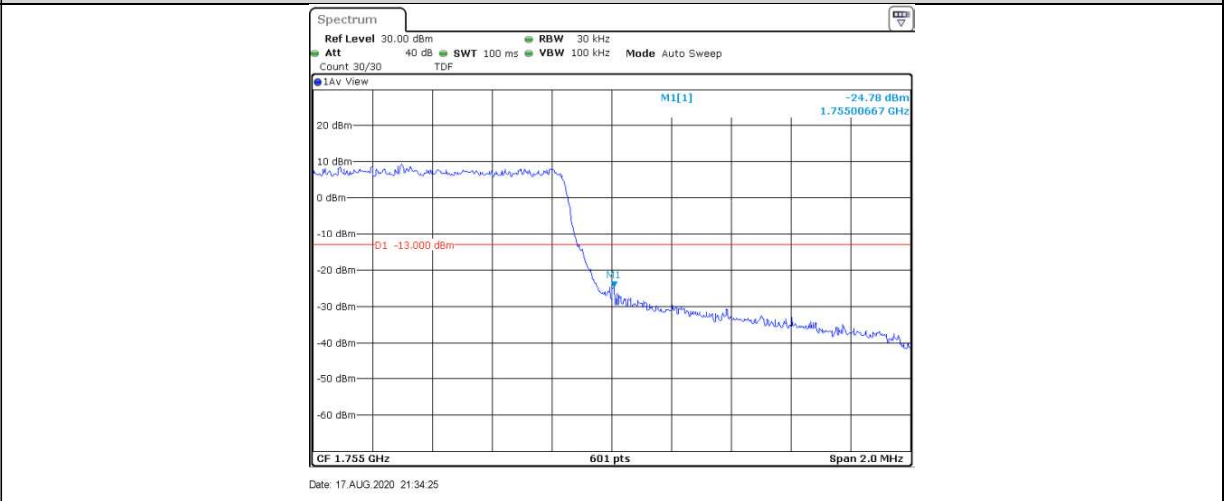
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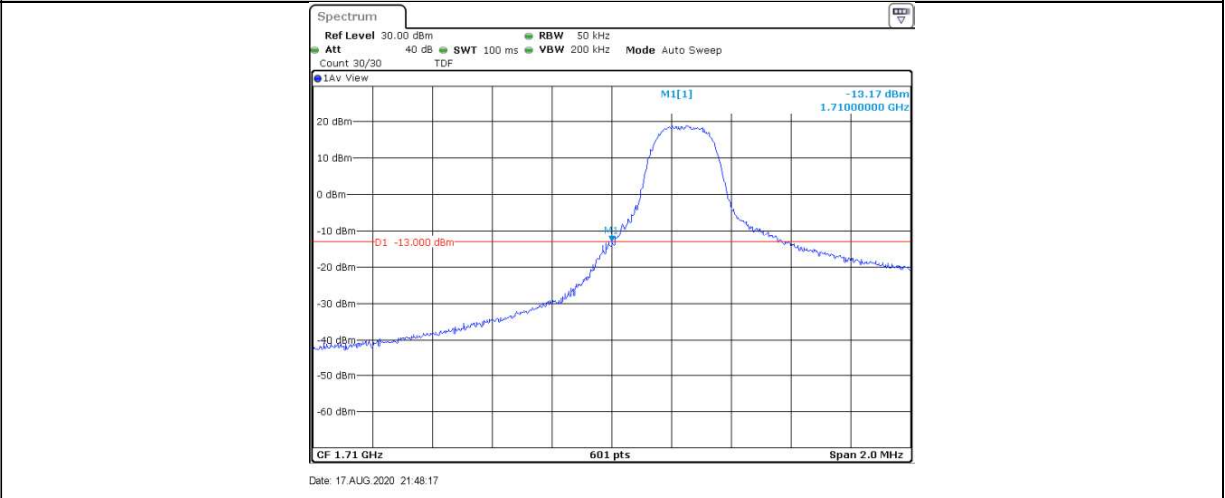
Band4-1.4MHz-16QAM-20393-1RB#0



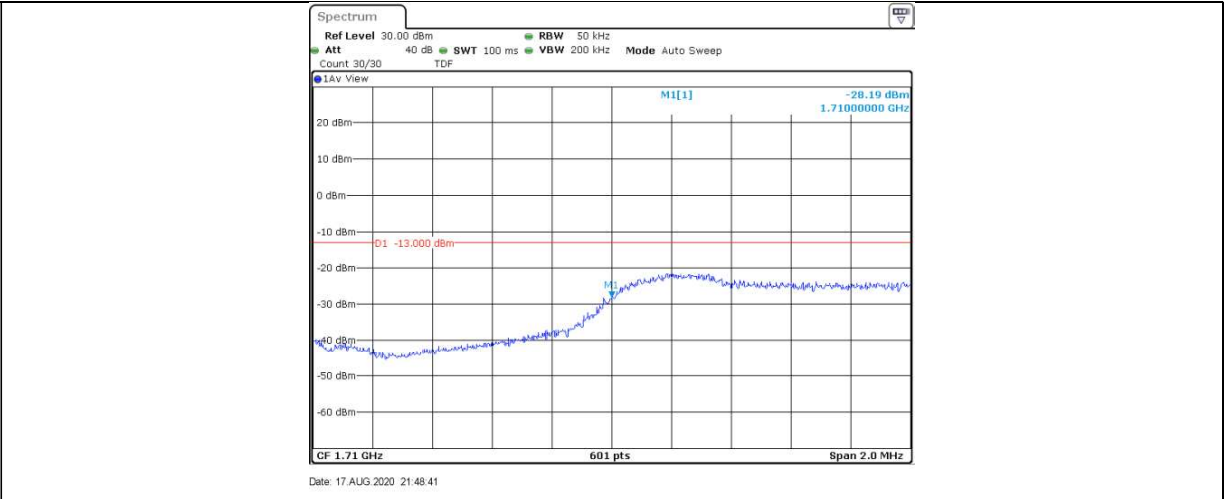
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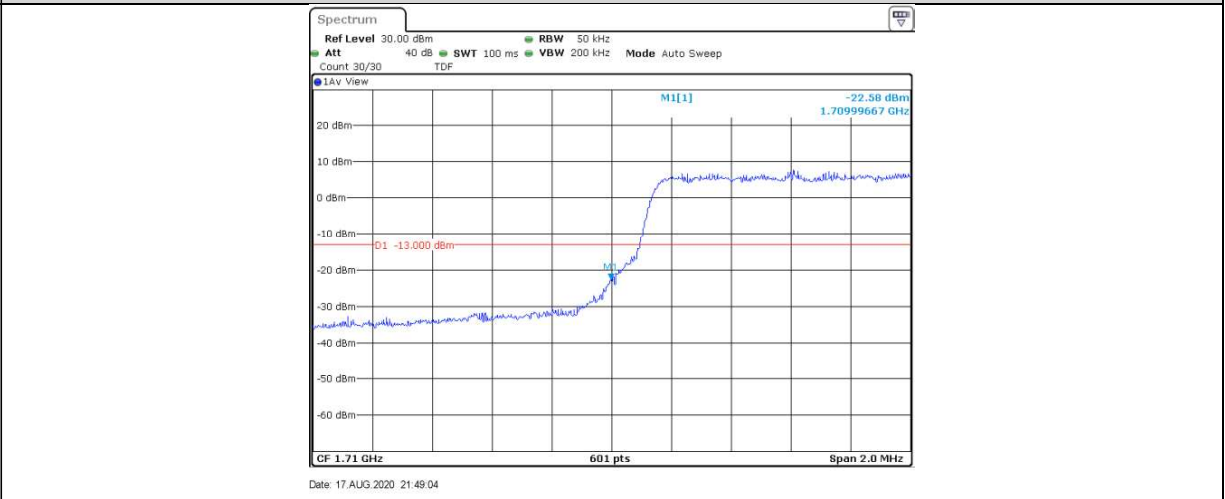
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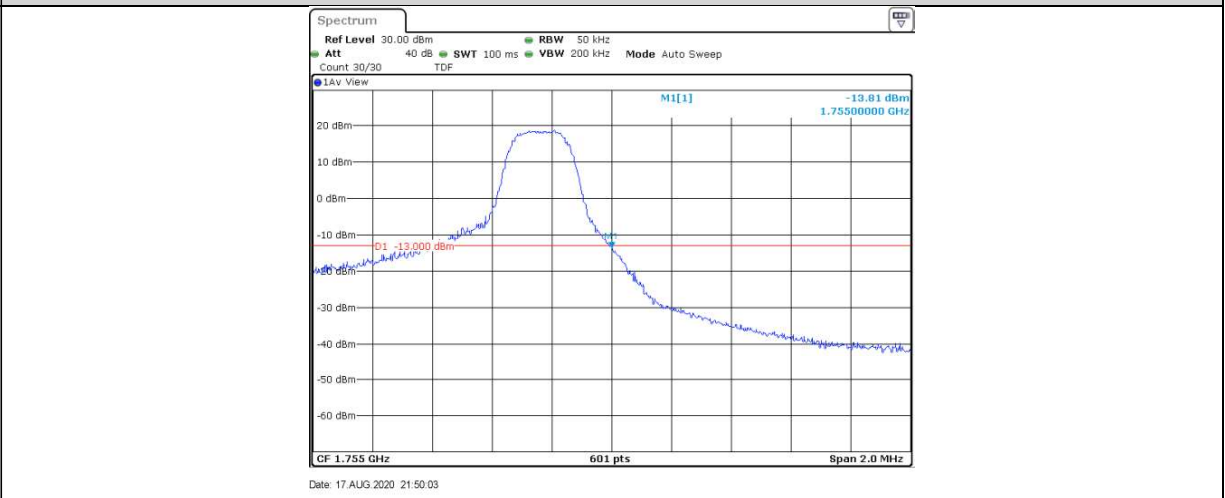
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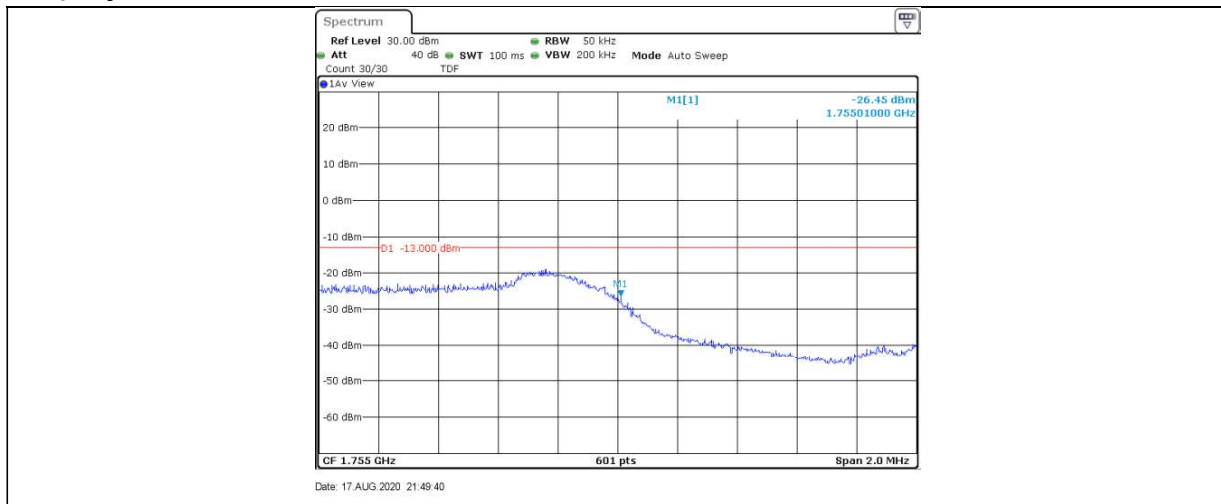
Band4-3MHz-QPSK-19965-15RB#0



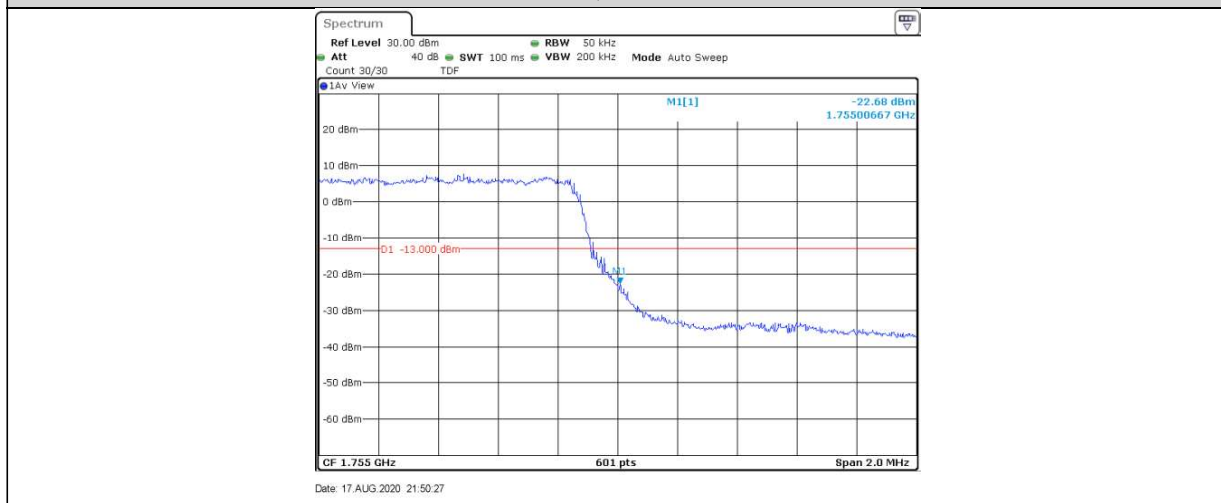
Band4-3MHz-QPSK-20385-1RB#14



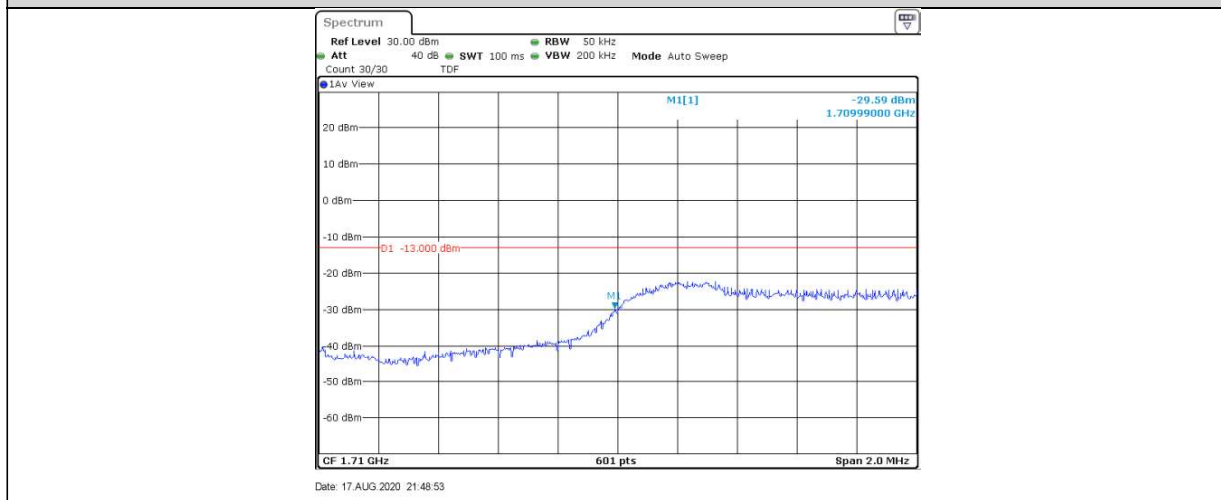
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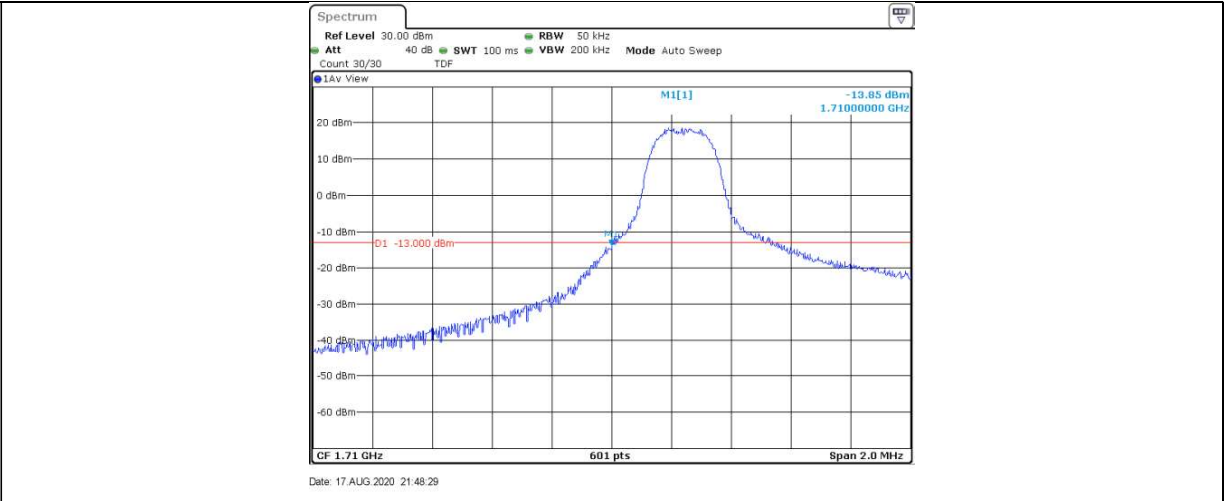
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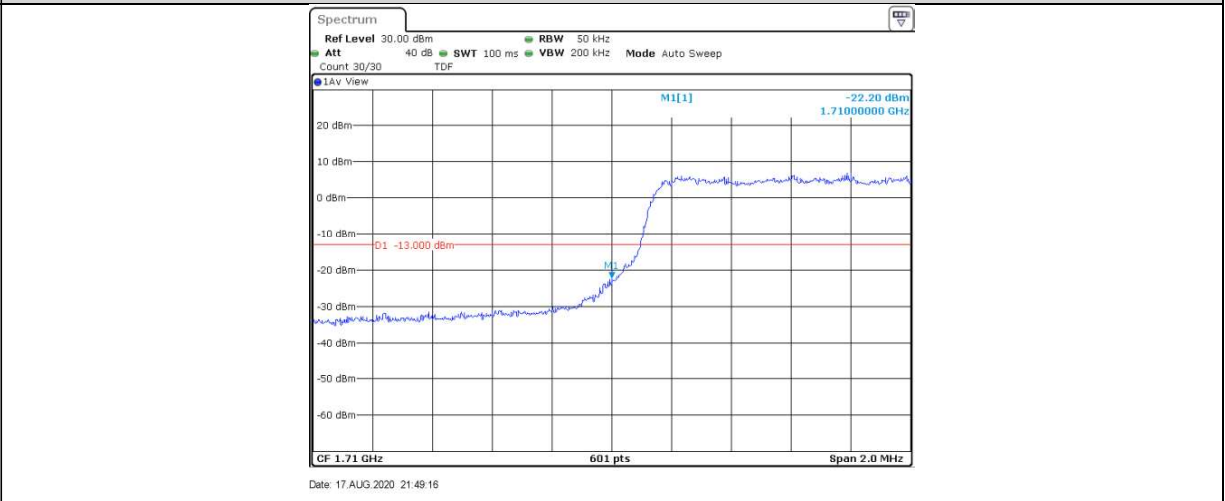
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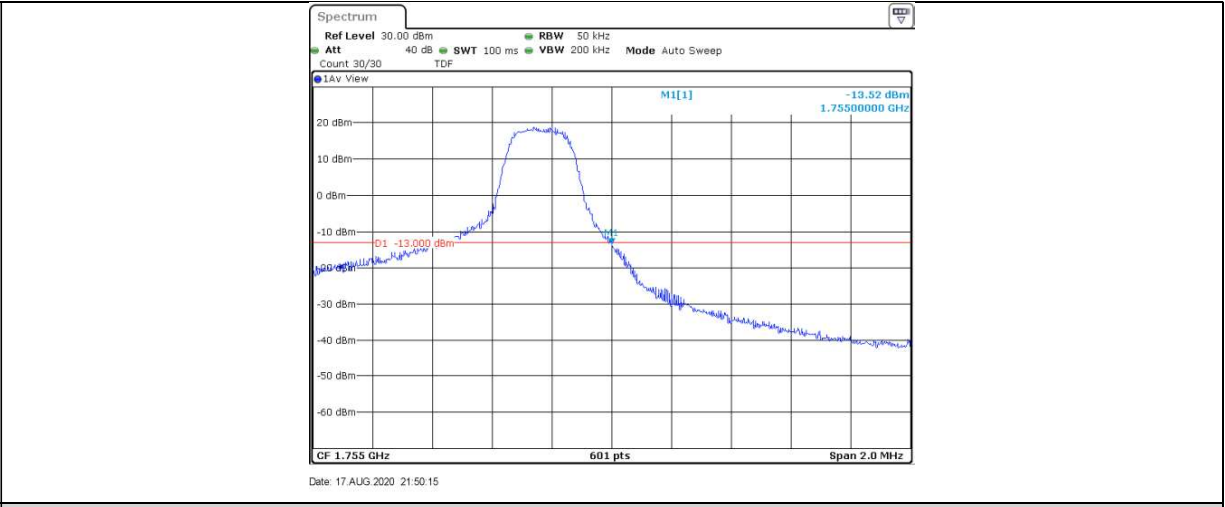
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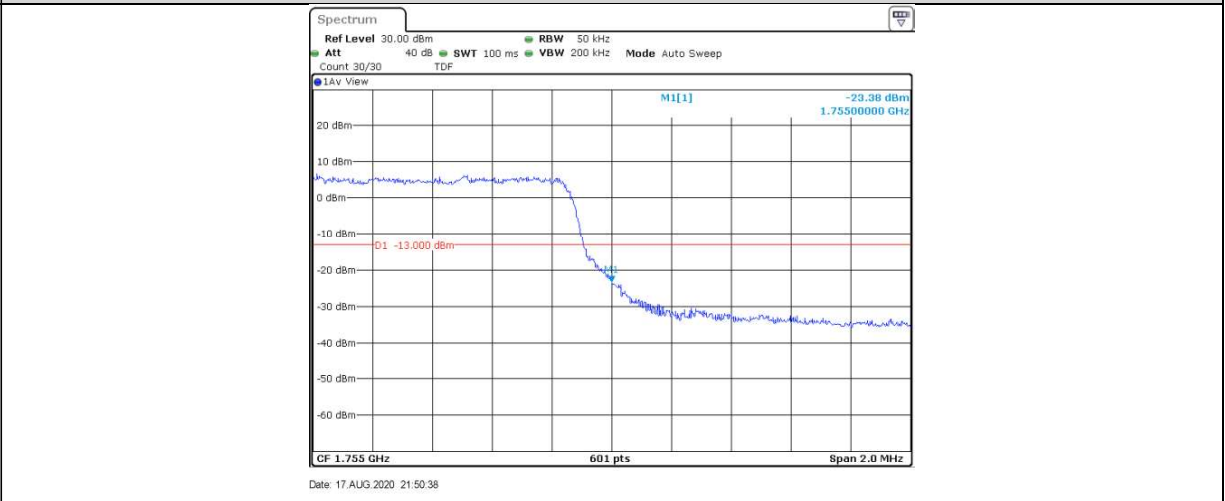
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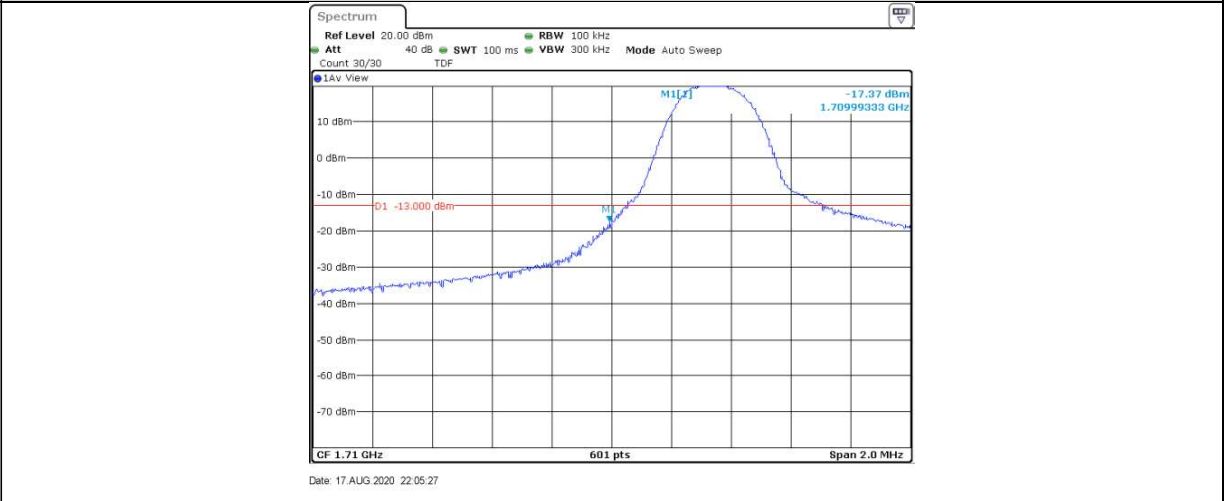
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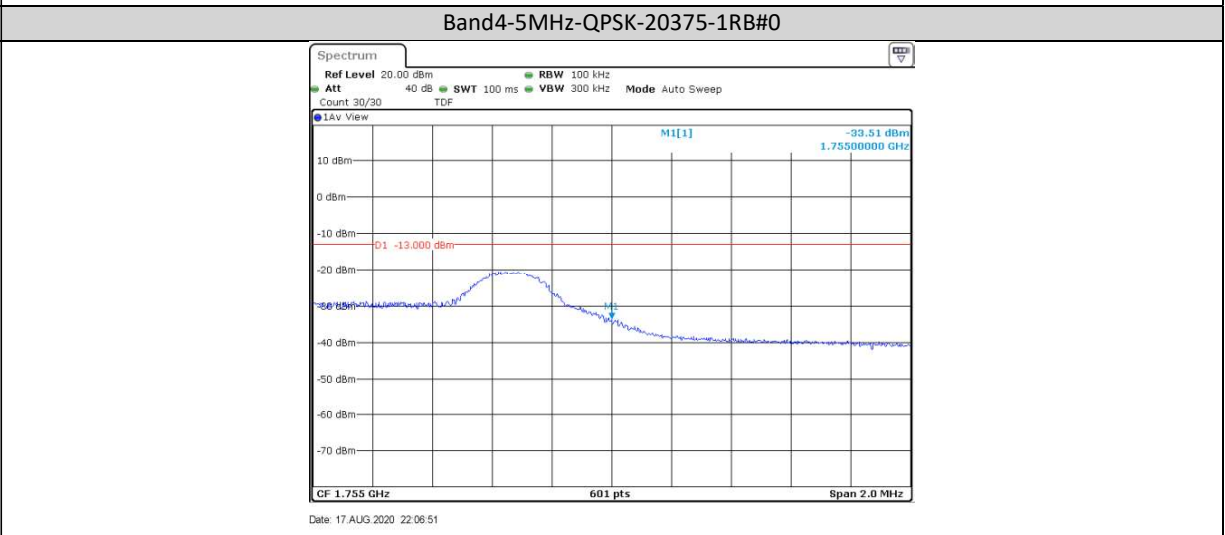
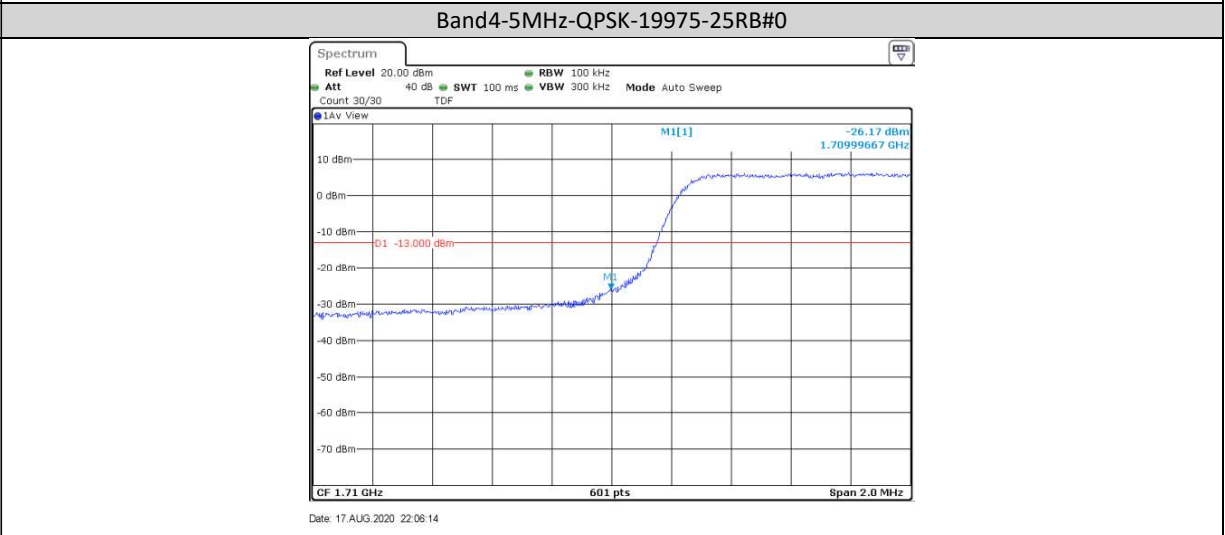
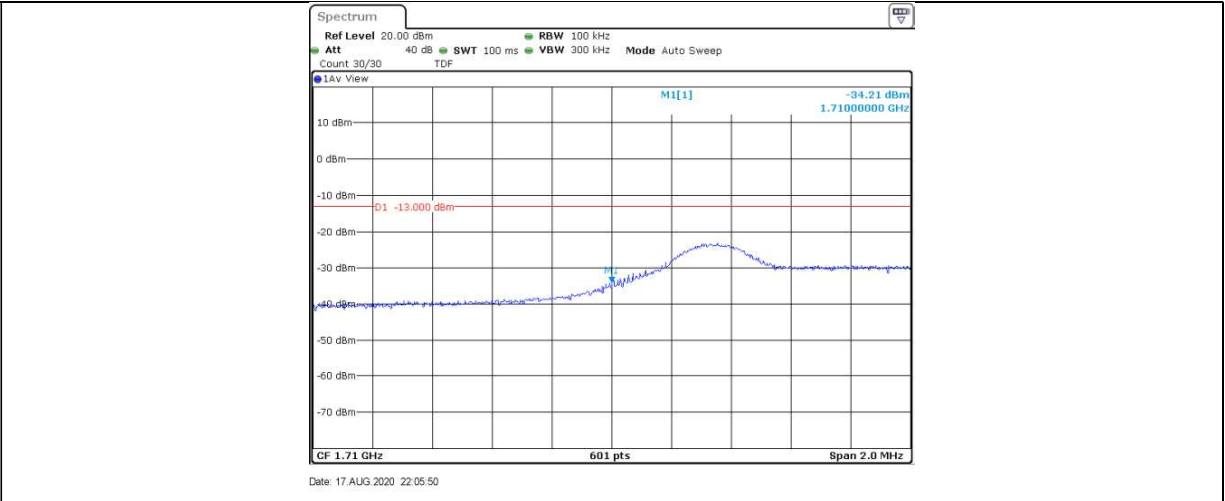
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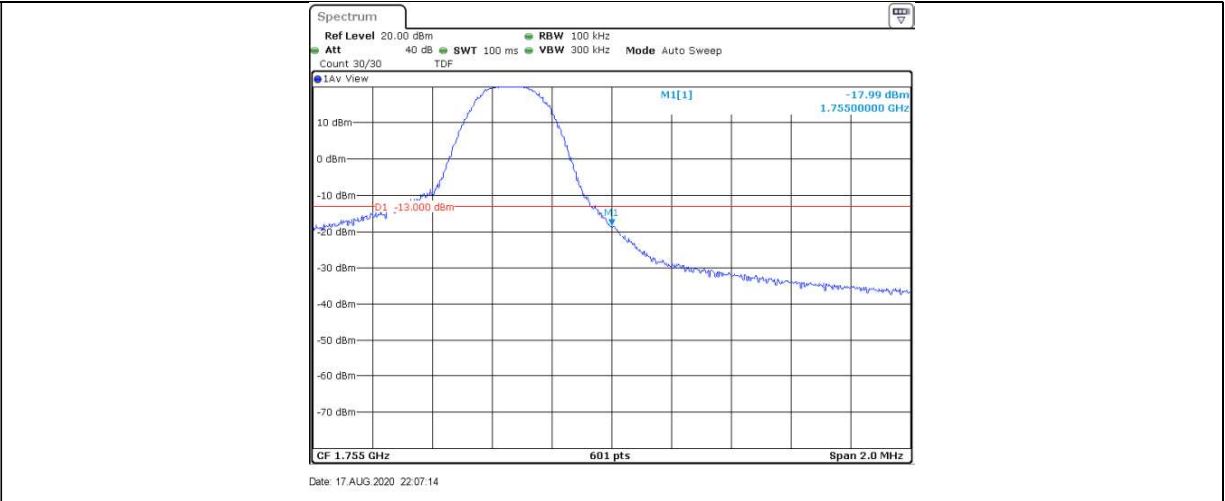


Band4-5MHz-QPSK-19975-1RB#0

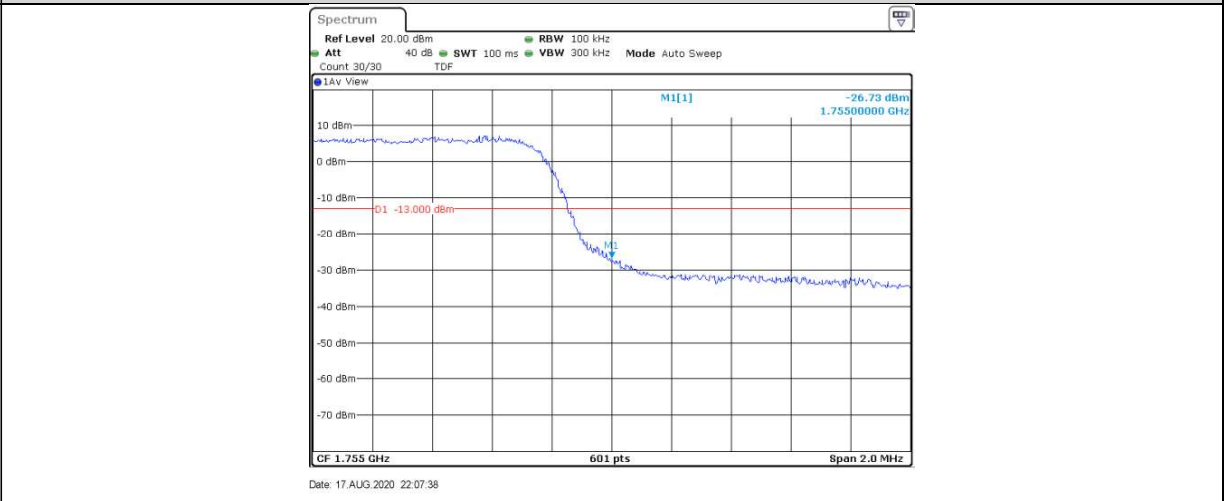


Band4-5MHz-QPSK-19975-1RB#24

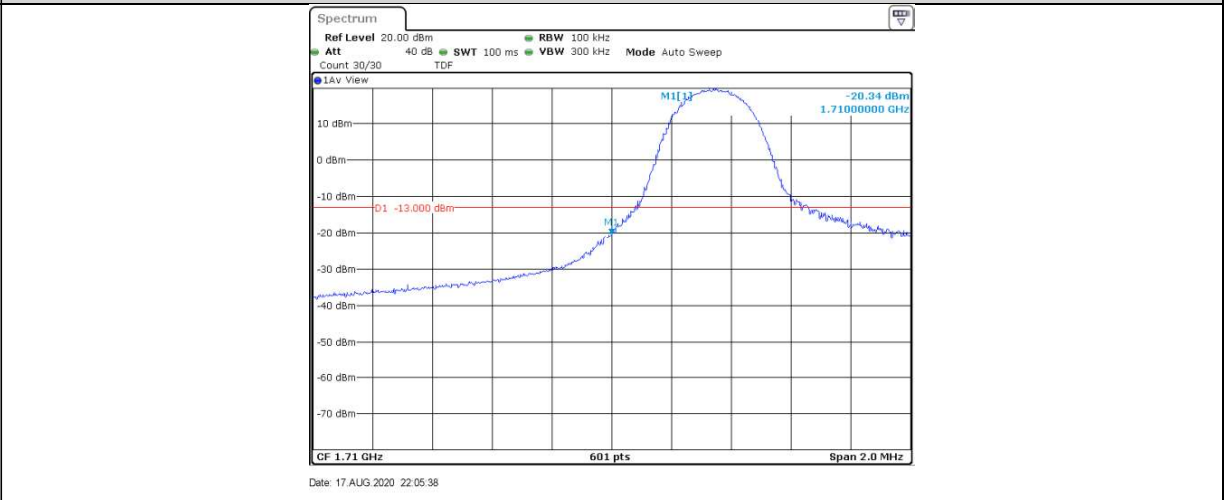




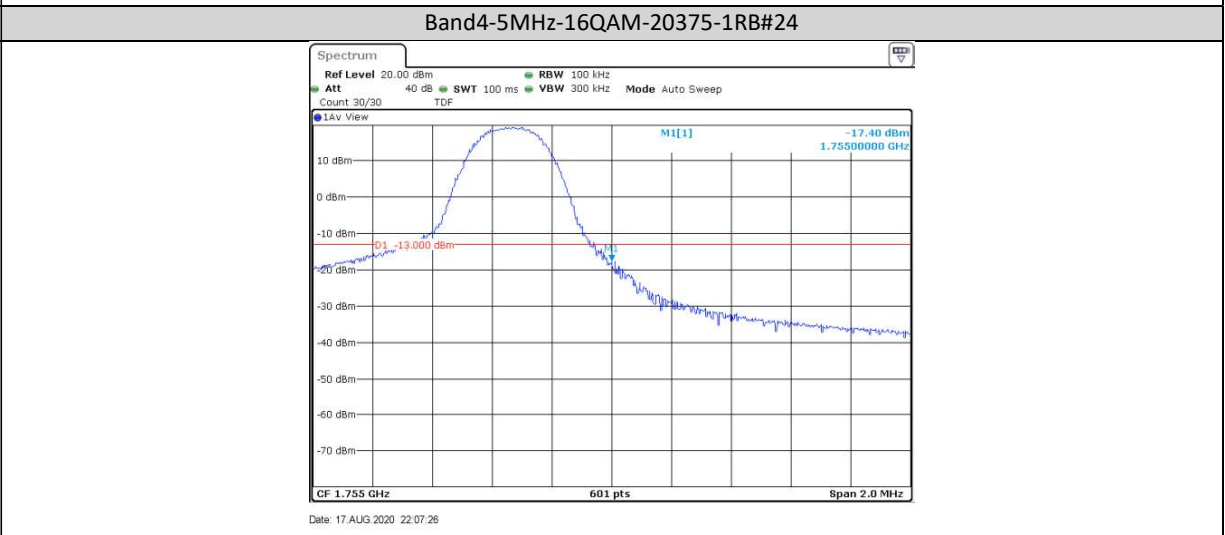
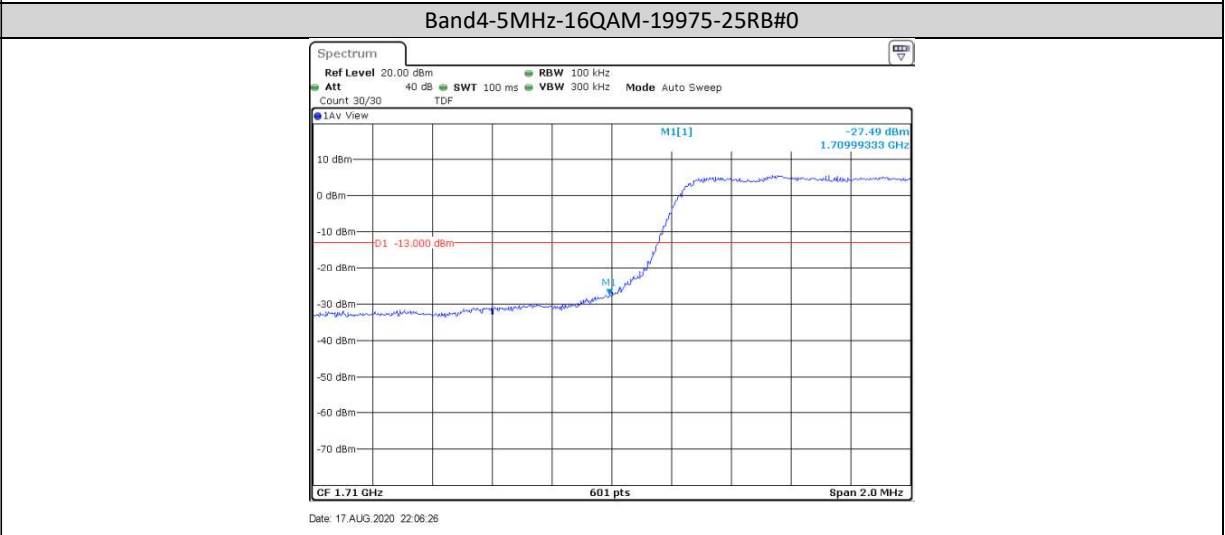
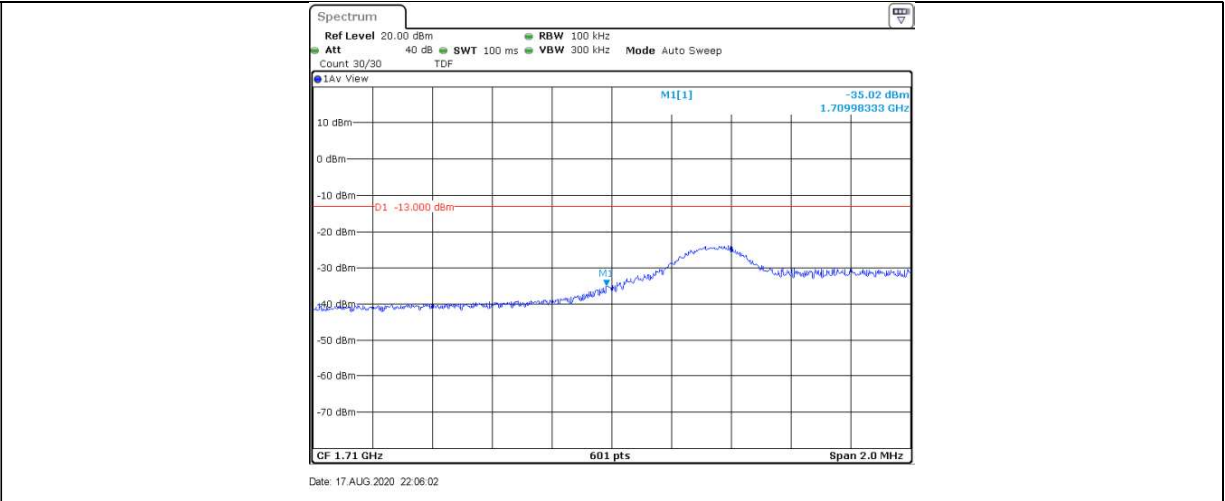
Band4-5MHz-QPSK-20375-25RB#0

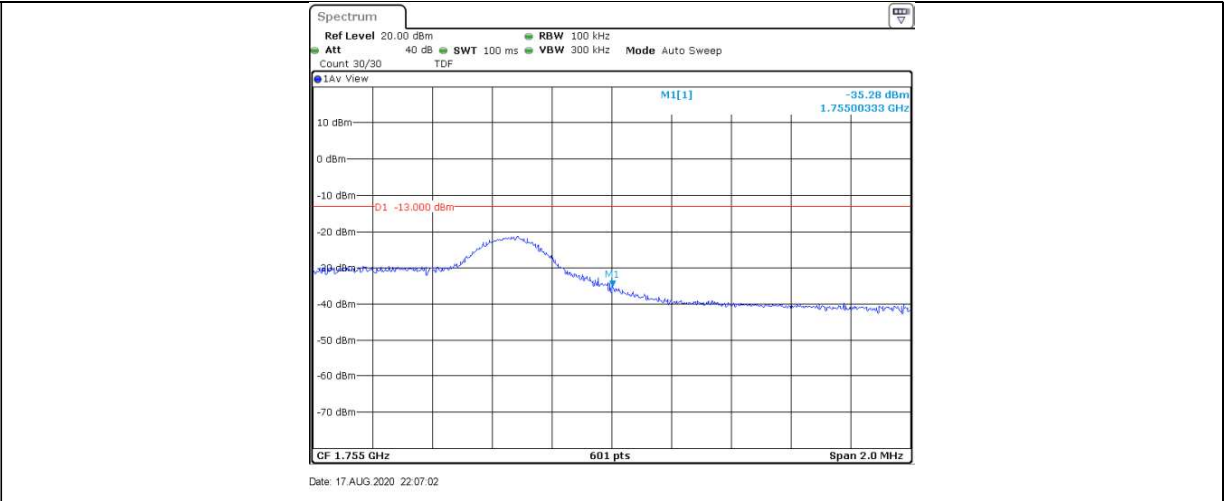


Band4-5MHz-16QAM-19975-1RB#0

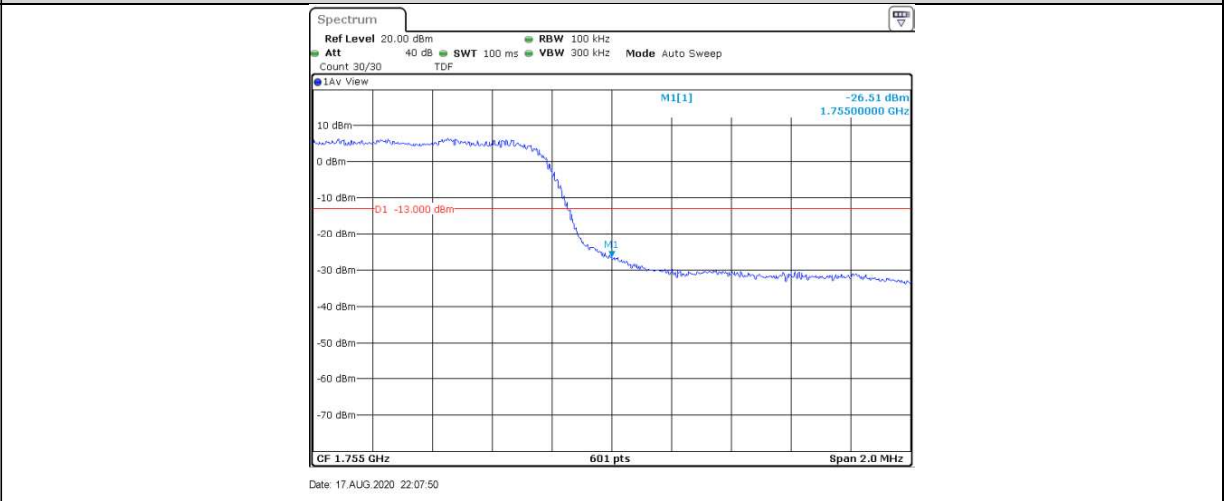


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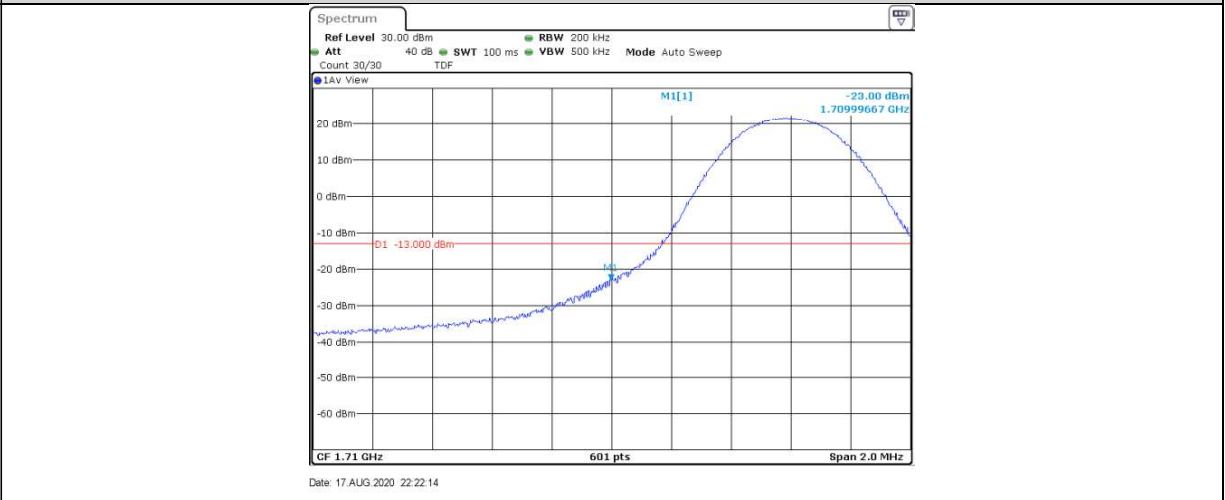




Band4-5MHz-16QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-1RB#49