



Appendix B

E-UTRA Band 4



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.37	23.87	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.39	23.89	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.48	23.98	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.53	24.03	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.49	23.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.48	22.98	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.55	24.05	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.40	23.90	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.40	23.90	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.57	24.07	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.53	24.03	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.52	23.02	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.35	23.85	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.35	23.85	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.46	23.96	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.51	24.01	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.46	23.96	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.48	22.98	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.56	22.06	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.46	21.96	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.44	21.94	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.50	22.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.54	22.04	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.49	21.99	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.45	20.95	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.48	21.98	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.55	22.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.65	22.15	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.55	22.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.54	22.04	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.66	22.16	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.54	21.04	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.48	21.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.53	22.03	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.64	22.14	30.00	PASS



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Band4	1.4MHz	64QAM	20393	3RB#1	21.61	22.11	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.58	22.08	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	21.56	22.06	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.48	20.98	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.66	23.16	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.73	23.23	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.57	23.07	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.63	23.13	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.58	23.08	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.52	22.02	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.75	23.25	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.56	23.06	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.62	23.12	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.61	23.11	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.59	22.09	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.44	22.94	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.63	23.13	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.49	22.99	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.46	22.96	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.52	23.02	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.54	23.04	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.52	22.02	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.43	23.93	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.40	23.90	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.43	23.93	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.49	22.99	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.46	22.96	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.47	23.97	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.47	23.97	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.45	23.95	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.51	23.01	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.54	23.04	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.52	23.02	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.50	23.00	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.40	23.90	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.41	23.91	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.41	23.91	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.46	22.96	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.47	22.97	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.50	22.00	30.00	PASS



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Band4	3MHz	64QAM	19965	1RB#14	21.49	21.99	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.50	22.00	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.44	20.94	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.47	20.97	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.46	20.96	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.41	20.91	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.60	22.10	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.57	22.07	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.64	22.14	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.53	21.03	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.55	21.05	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.50	21.00	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.51	21.01	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.60	22.10	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.55	22.05	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.57	22.07	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.51	21.01	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.52	21.02	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.50	21.00	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.48	20.98	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.65	23.15	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.76	23.26	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.71	23.21	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.55	22.05	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.54	22.04	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.43	21.93	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.72	23.22	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.68	23.18	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.69	23.19	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.56	22.06	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.58	22.08	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.58	22.08	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.61	23.11	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.55	23.05	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.69	23.19	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.49	21.99	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.47	21.97	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.44	21.94	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.32	23.82	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.31	23.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.58	24.08	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.45	22.95	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.50	23.00	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.43	22.93	30.00	PASS



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Band4	5MHz	QPSK	19975	25RB#0	22.46	22.96	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.63	24.13	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.35	23.85	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.34	23.84	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.55	23.05	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.46	22.96	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.47	22.97	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.48	22.98	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.29	23.79	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.56	24.06	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.30	23.80	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.41	22.91	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.52	23.02	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.42	22.92	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.46	22.96	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.66	22.16	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.43	21.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.41	21.91	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.37	20.87	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.42	20.92	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.48	20.98	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.44	20.94	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.49	21.99	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.72	22.22	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.50	22.00	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.45	20.95	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.48	20.98	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.57	21.07	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.51	21.01	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.47	21.97	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.78	22.28	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.41	21.91	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.56	21.06	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.47	20.97	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.45	20.95	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.52	21.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.72	23.22	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.52	23.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.59	23.09	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.44	21.94	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.52	22.02	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.80	23.30	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.64	23.14	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.60	23.10	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.55	22.05	30.00	PASS



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Band4	5MHz	16QAM	20175	12RB#0	21.47	21.97	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.48	21.98	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.67	23.17	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.56	23.06	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.44	22.94	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.50	22.00	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.45	21.95	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.44	21.94	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.46	21.96	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.42	23.92	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.39	23.89	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.55	24.05	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.47	22.97	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.43	23.93	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.54	24.04	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.47	23.97	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.50	23.00	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.55	23.05	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.37	23.87	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.39	23.89	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.49	23.99	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.45	22.95	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.50	23.00	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.47	22.97	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.71	22.21	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.58	22.08	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.53	22.03	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.49	20.99	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.47	20.97	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.49	20.99	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.45	20.95	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.65	22.15	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.69	22.19	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.66	22.16	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.52	21.02	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.50	21.00	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.56	21.06	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.52	21.02	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.56	22.06	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.62	22.12	30.00	PASS



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Band4	10MHz	64QAM	20350	1RB#24	21.74	22.24	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.55	21.05	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.53	21.03	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.55	21.05	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.52	21.02	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.81	23.31	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.49	21.99	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.48	21.98	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.47	21.97	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.65	23.15	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.71	23.21	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.80	23.30	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.49	21.99	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.53	22.03	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.48	21.98	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.64	23.14	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.51	23.01	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.46	21.96	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.46	21.96	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.45	21.95	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.47	23.97	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.40	23.90	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.32	23.82	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.53	23.03	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.56	23.06	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.50	23.00	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.47	23.97	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.39	23.89	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.33	23.83	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.54	23.04	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.51	23.01	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.50	23.00	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.28	23.78	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.30	23.80	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.41	23.91	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.51	23.01	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.42	22.92	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.48	22.98	30.00	PASS



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Band4	15MHz	64QAM	20025	1RB#0	21.39	21.89	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.58	22.08	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.52	22.02	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.45	20.95	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.49	20.99	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.52	22.02	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.55	22.05	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.65	22.15	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.47	20.97	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.52	21.02	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.46	21.96	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.43	21.93	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.60	22.10	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.52	21.02	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.54	21.04	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.66	23.16	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.74	23.24	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.61	23.11	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.46	21.96	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.52	22.02	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.53	23.03	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.75	23.25	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.67	23.17	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.47	21.97	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.55	22.05	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.50	22.00	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.61	23.11	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.57	23.07	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.57	23.07	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.50	22.00	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.41	21.91	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.48	21.98	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.45	21.95	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.13	23.63	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.55	24.05	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.21	23.71	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.57	23.07	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.57	23.07	30.00	PASS



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Band4	20MHz	QPSK	20050	50RB#0	22.48	22.98	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.11	23.61	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.22	23.72	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.54	24.04	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.47	22.97	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.48	22.98	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.46	22.96	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.16	23.66	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.08	23.58	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.53	24.03	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.42	22.92	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.56	23.06	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.50	23.00	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.32	21.82	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.67	22.17	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.22	21.72	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.60	21.10	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.54	21.04	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.49	20.99	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.55	21.05	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.73	22.23	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.38	21.88	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.35	21.85	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.55	21.05	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.47	20.97	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.31	21.81	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.30	21.80	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.75	22.25	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.59	21.09	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.58	21.08	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.57	21.07	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.42	22.92	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.81	23.31	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.52	23.02	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.57	22.07	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.55	22.05	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.56	22.06	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.49	22.99	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.81	23.31	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.43	22.93	30.00	PASS



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Band4	20MHz	16QAM	20175	50RB#50	21.47	21.97	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.46	21.96	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.54	22.04	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.41	22.91	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.33	22.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.68	23.18	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.40	21.90	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.53	22.03	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.48	21.98	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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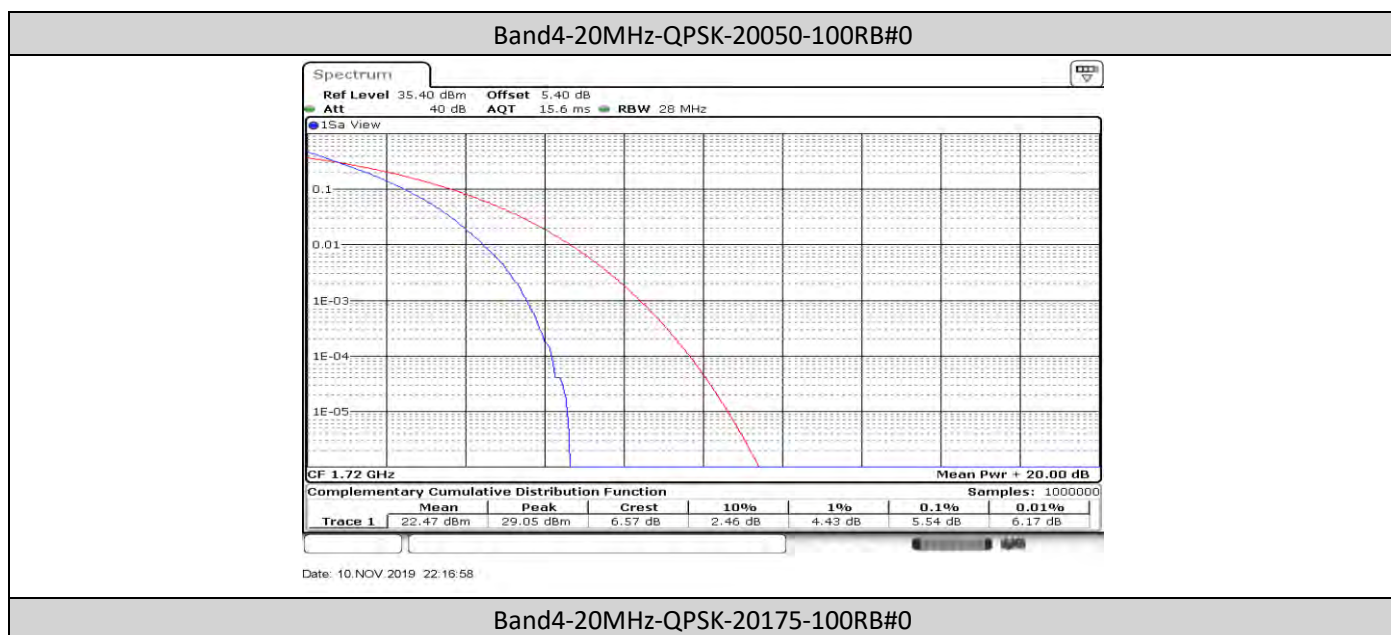


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.54	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.30	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.07	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.58	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.41	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.35	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.17	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS

2.2. Test Plots





Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-64QAM-20050-100RB#0





Band4-20MHz-64QAM-20175-100RB#0



Band4-20MHz-64QAM-20300-100RB#0





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



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



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



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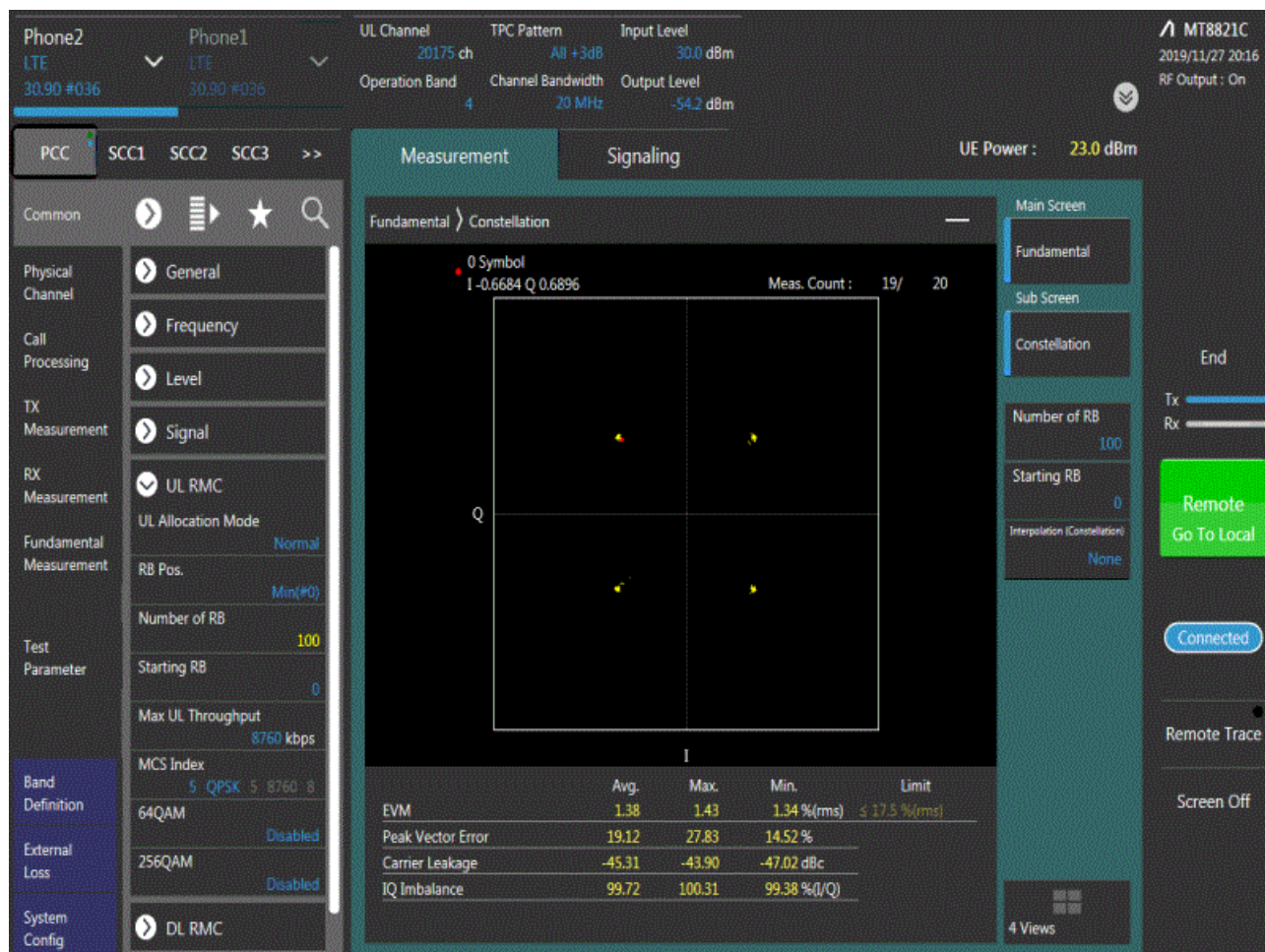
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

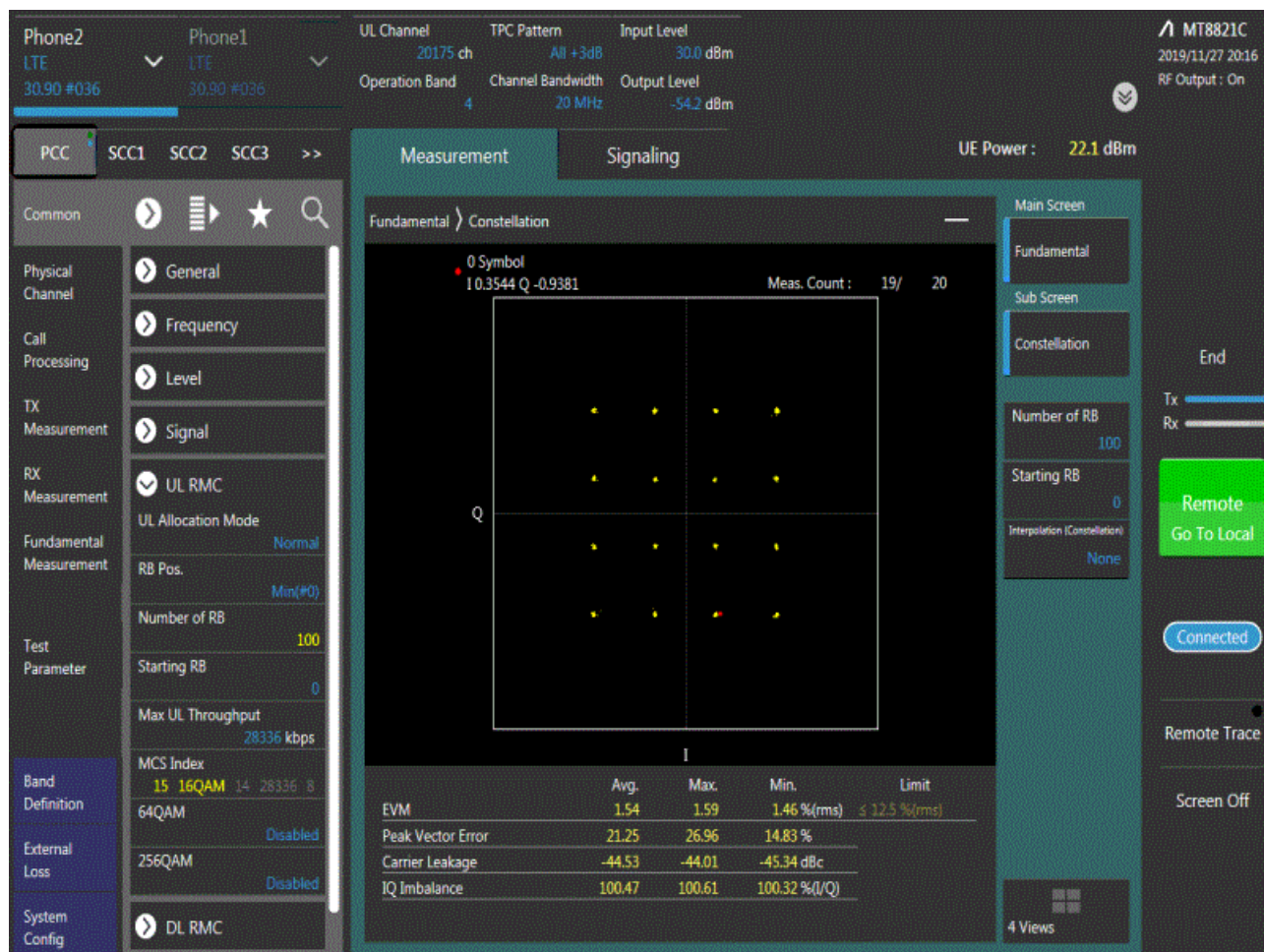
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

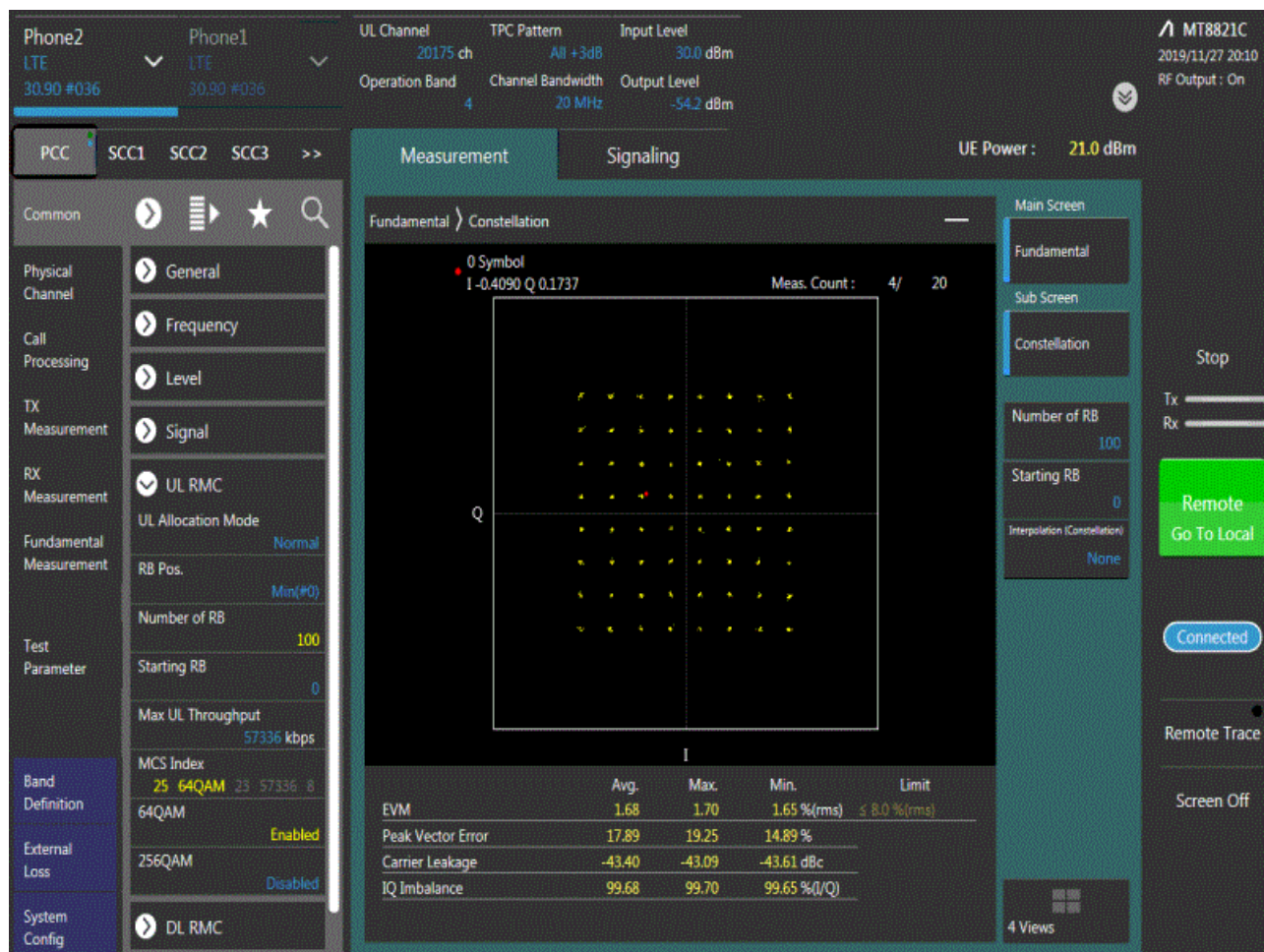
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.097	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.109	1.278	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.097	1.281	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.097	1.290	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.263	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.278	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.094	1.287	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1	1.299	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.094	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	2.916	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.904	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.679	2.916	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.910	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.910	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.910	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.922	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.910	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.928	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.840	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.860	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.860	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.820	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.820	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.456	4.830	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.466	4.870	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.870	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.466	4.780	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.640	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.640	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.540	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.911	9.560	PASS



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Band4	10MHz	64QAM	20175	50RB#0	8.931	9.500	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.520	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.520	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.580	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.560	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.427	14.790	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.670	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.790	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.427	14.700	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.427	14.610	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.397	14.670	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.700	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.730	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.640	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.280	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.862	19.240	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.200	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.902	19.320	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.862	19.320	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.822	19.240	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.942	19.400	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.320	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.320	PASS

4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.097



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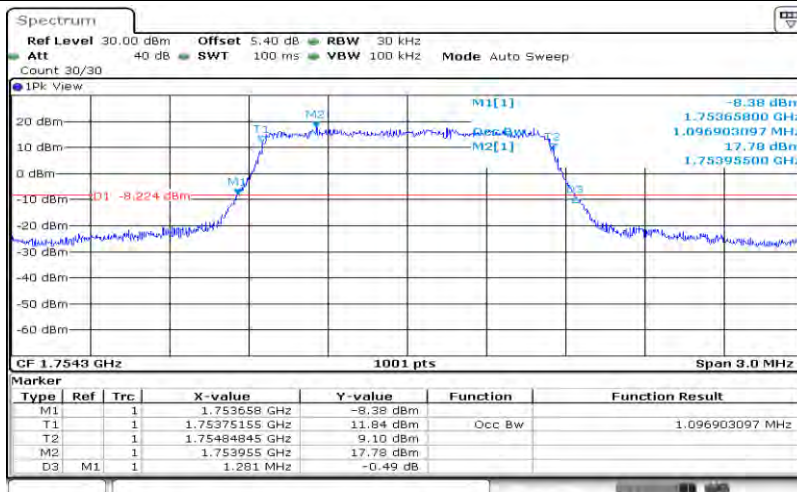


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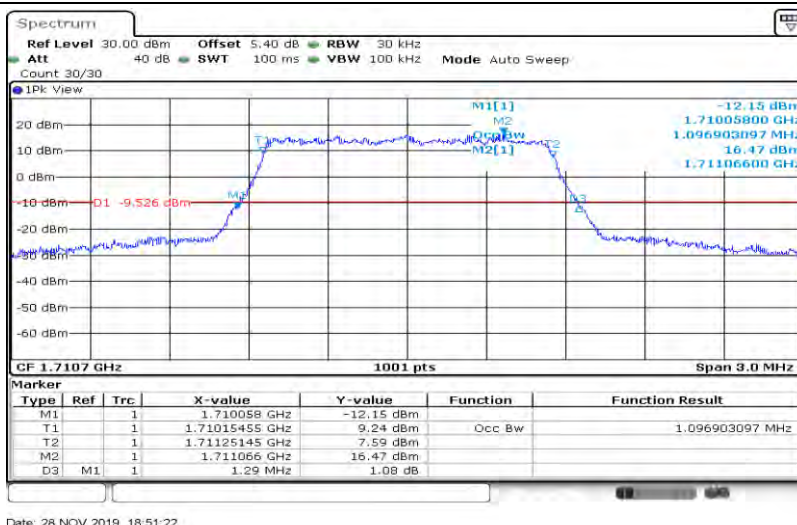
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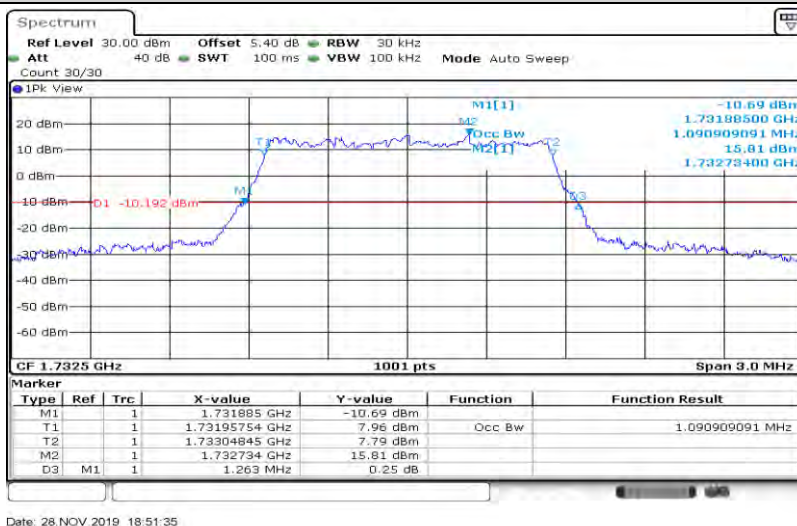
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Band4-1.4MHz-64QAM-19957-6RB#0-1.097





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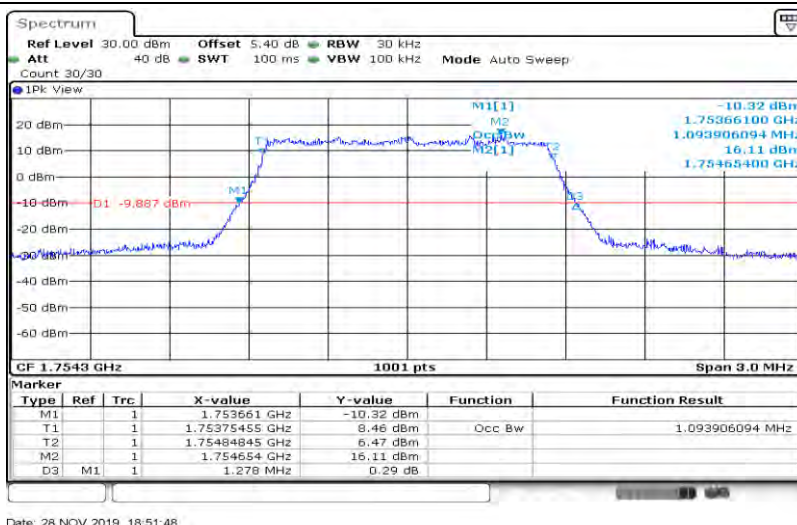


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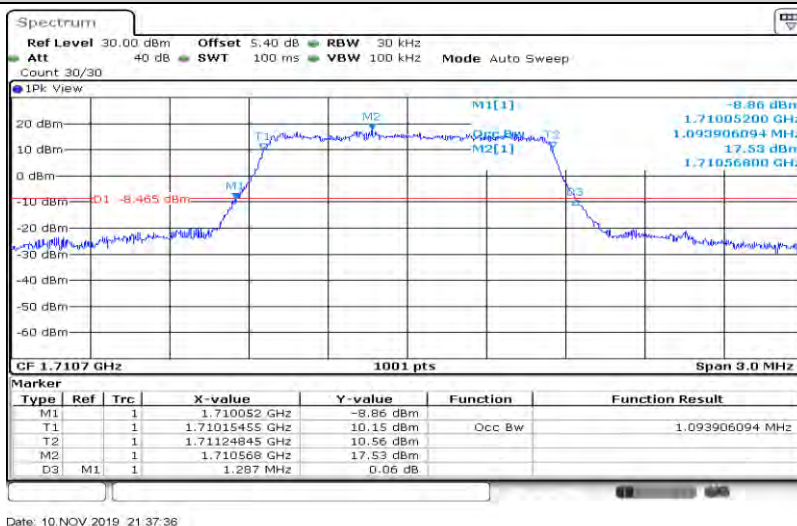


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Band4-1.4MHz-16QAM-19957-6RB#0-1.094



Band4-1.4MHz-16QAM-20175-6RB#0-1.1

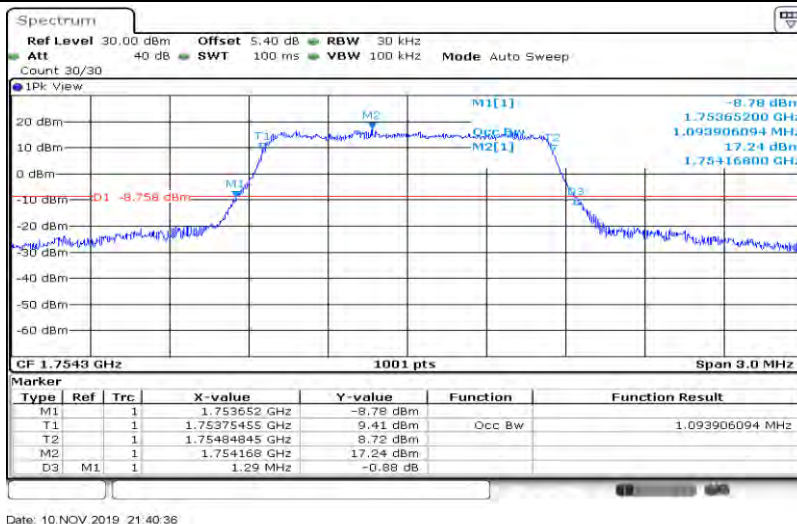


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Band4-1.4MHz-16QAM-20393-6RB#0-1.094

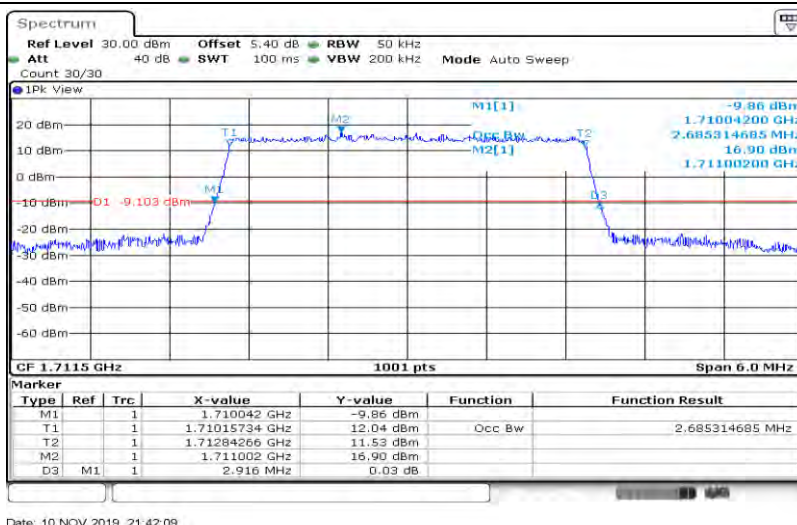


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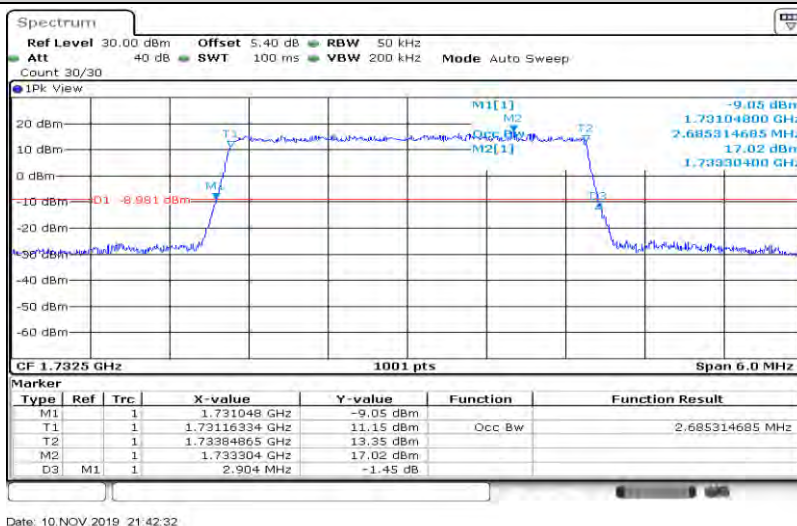


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Band4-3MHz-QPSK-20175-15RB#0-2.685

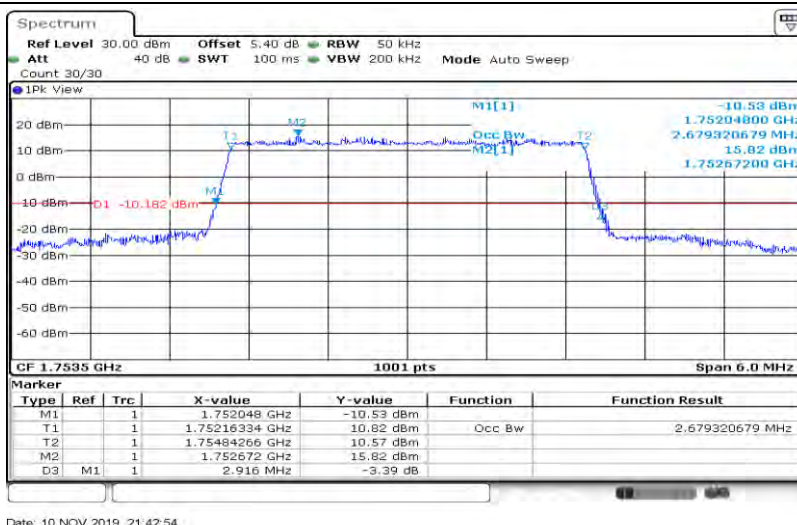


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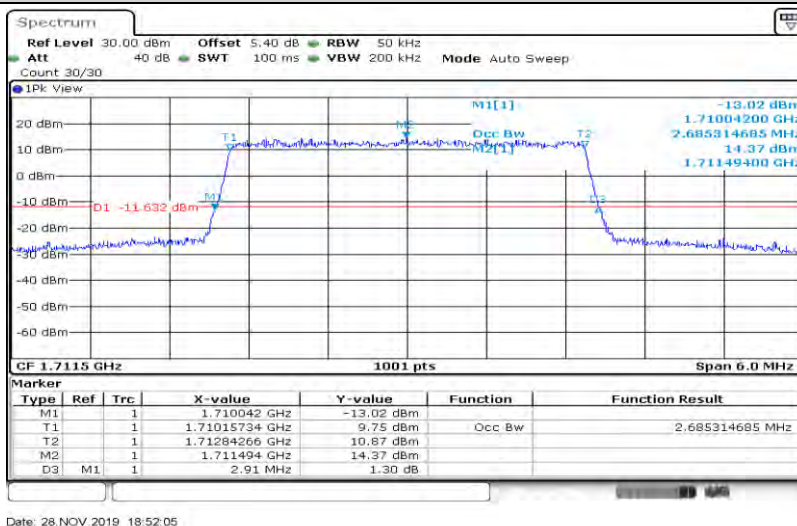


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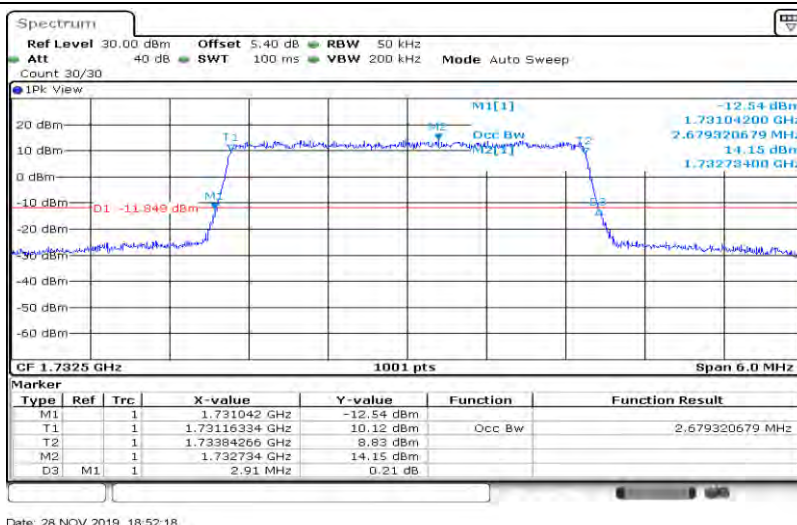


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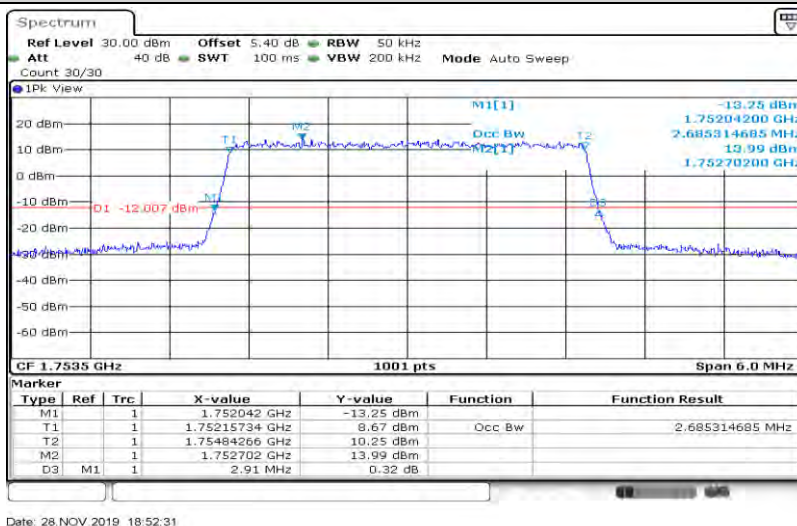


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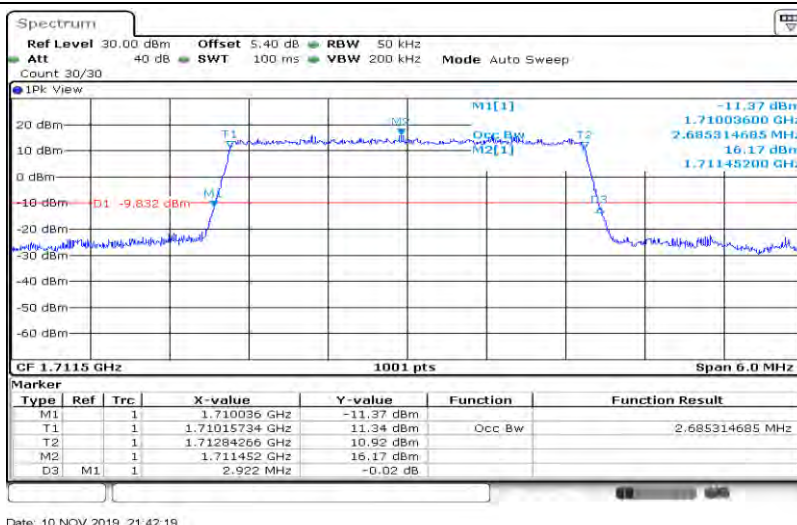


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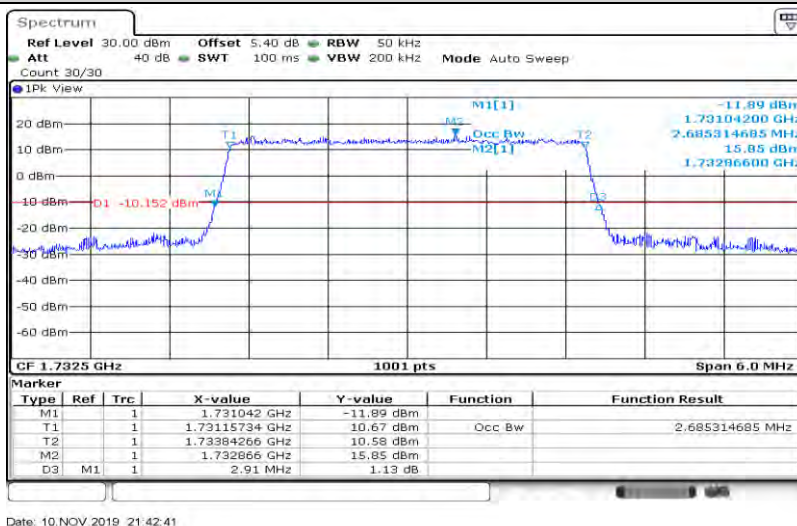


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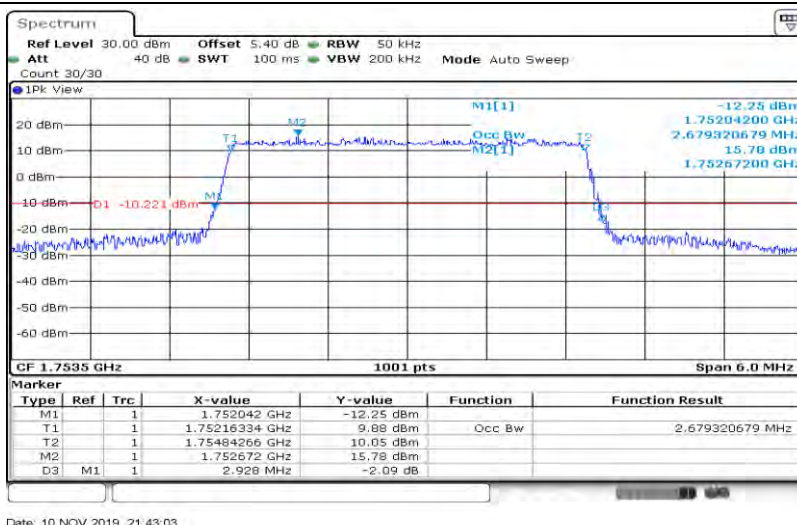


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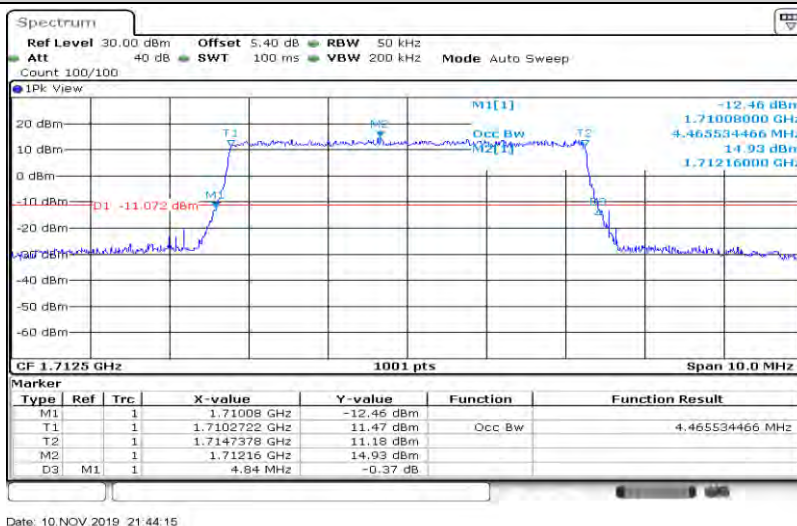


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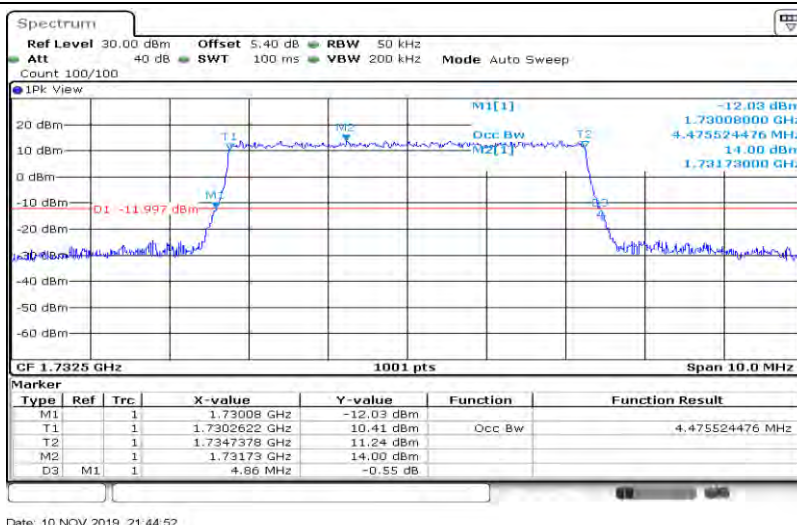


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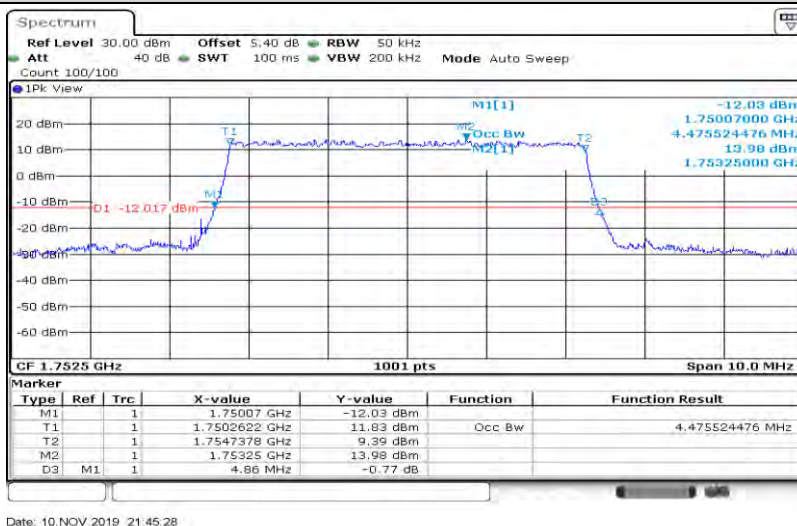


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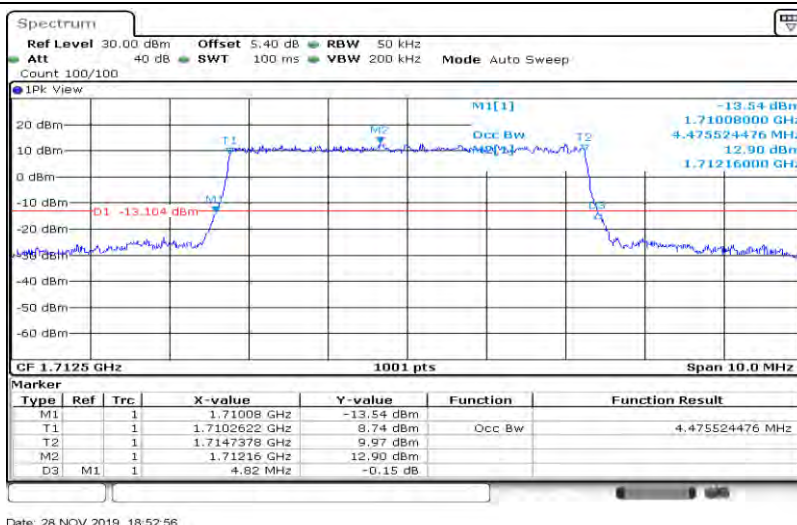


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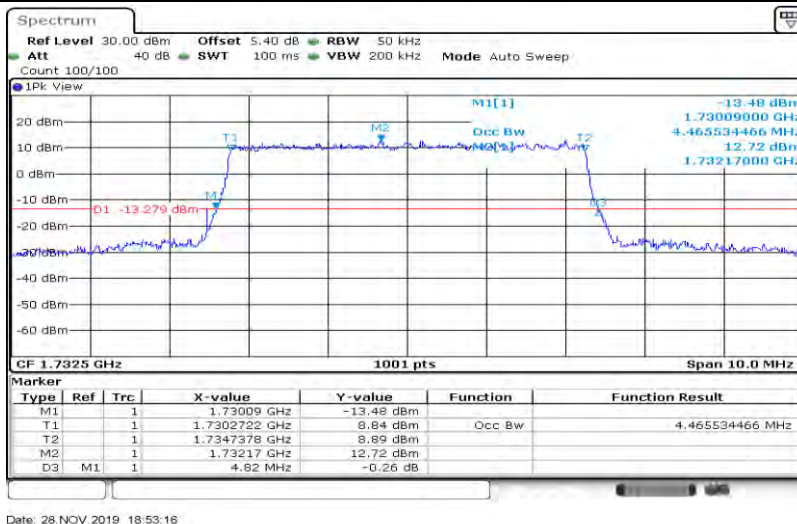


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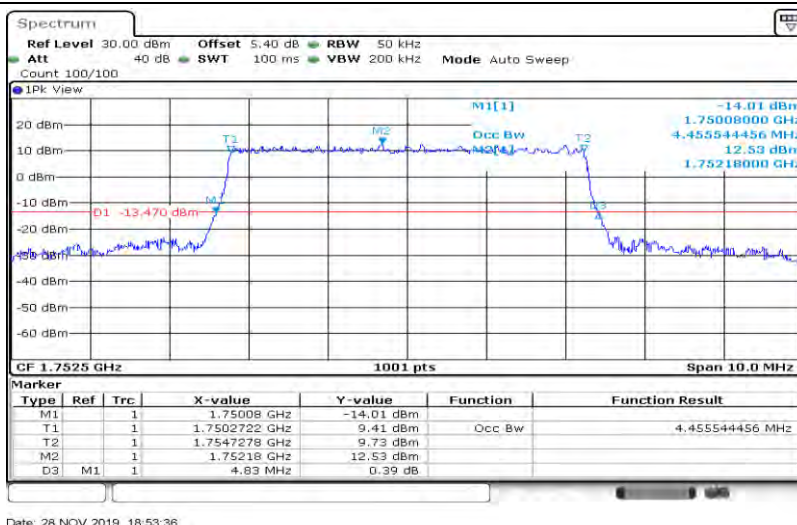


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Band4-5MHz-16QAM-19975-25RB#0-4.466

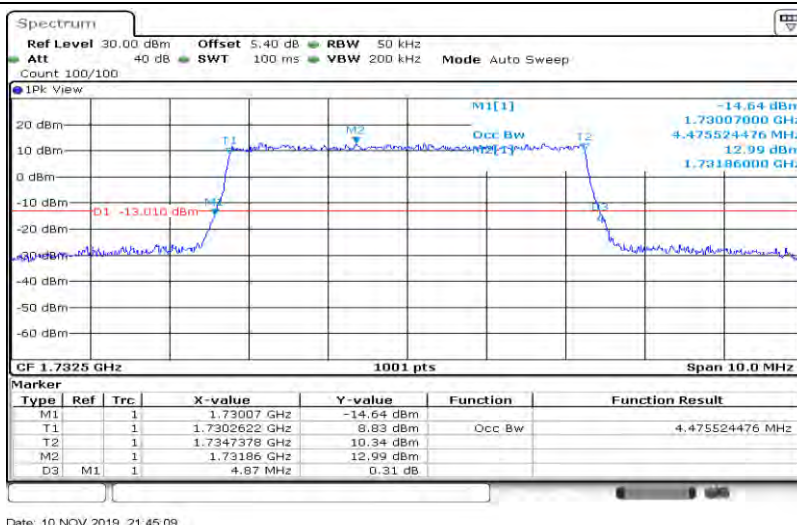


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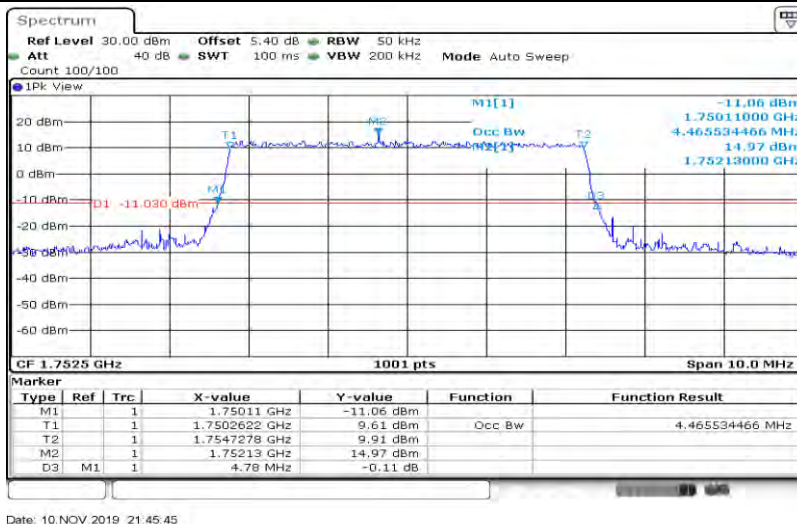


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Band4-5MHz-16QAM-20375-25RB#0-4.466

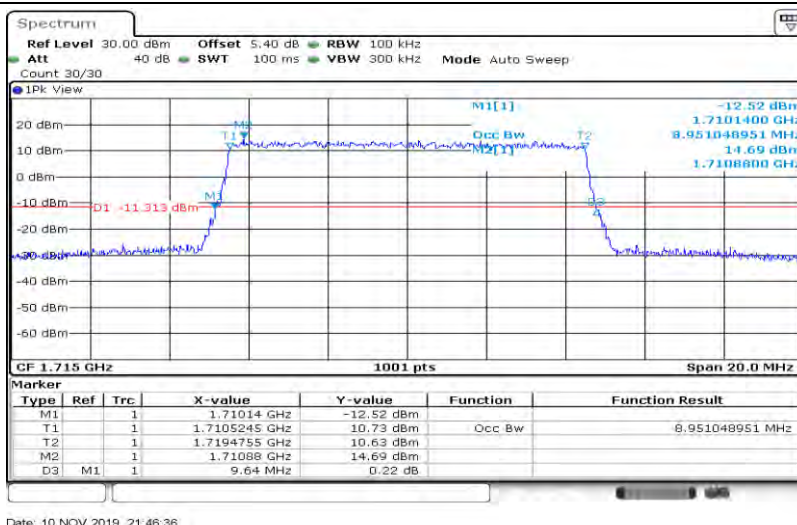


Band4-10MHz-QPSK-20000-50RB#0-8.951

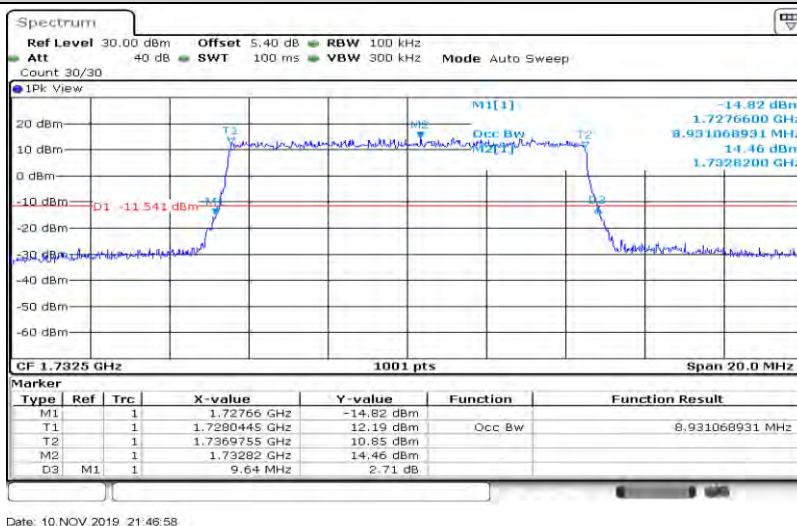


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Band4-10MHz-QPSK-20175-50RB#0-8.931

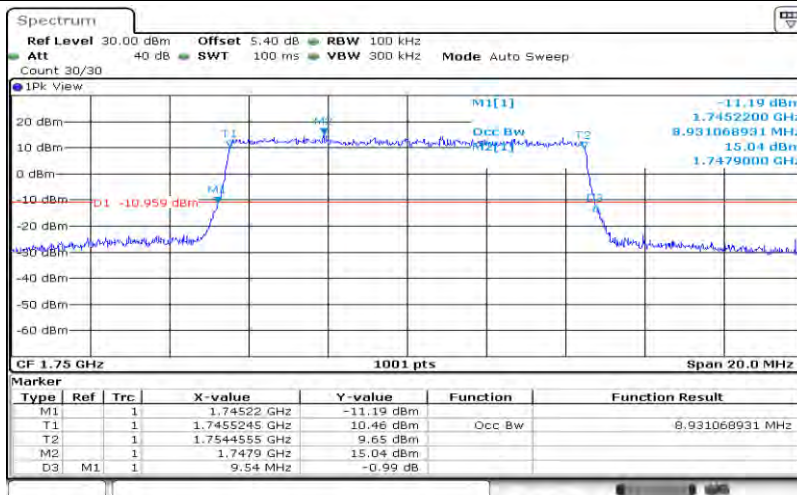


Band4-10MHz-QPSK-20350-50RB#0-8.931



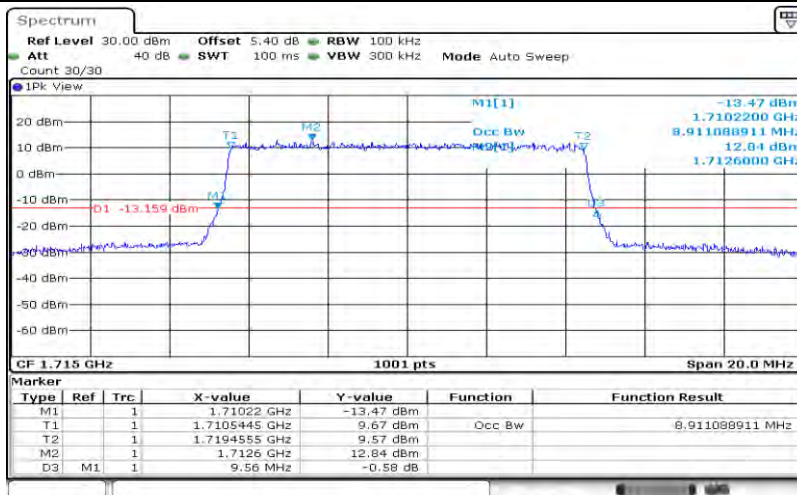
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Date: 10. NOV. 2019 21:47:21

Band4-10MHz-64QAM-20000-50RB#0-8.911



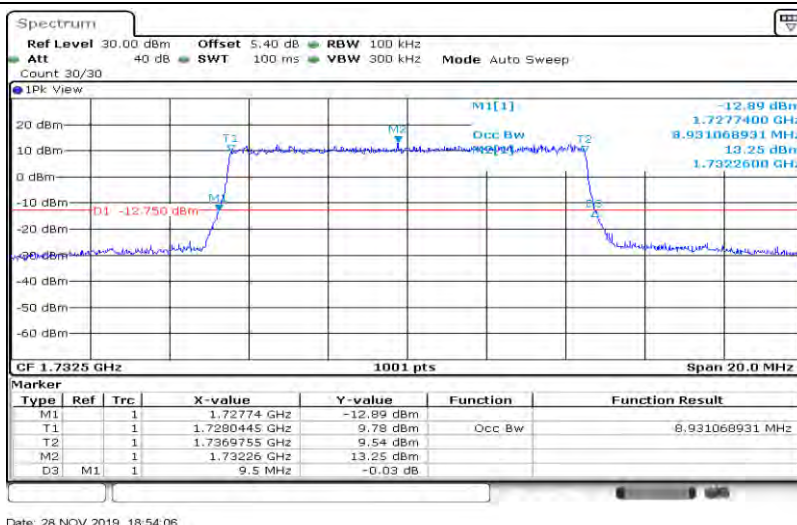
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Band4-10MHz-64QAM-20175-50RB#0-8.931

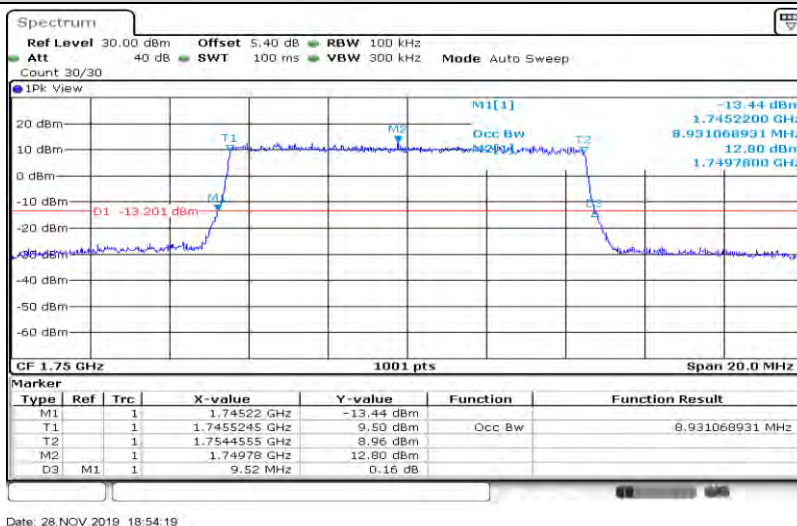


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Band4-10MHz-64QAM-20350-50RB#0-8.931

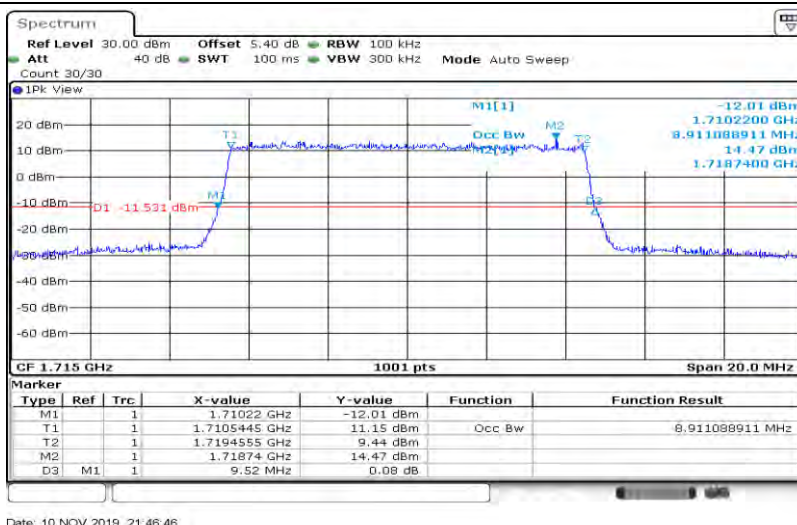


Band4-10MHz-16QAM-20000-50RB#0-8.911

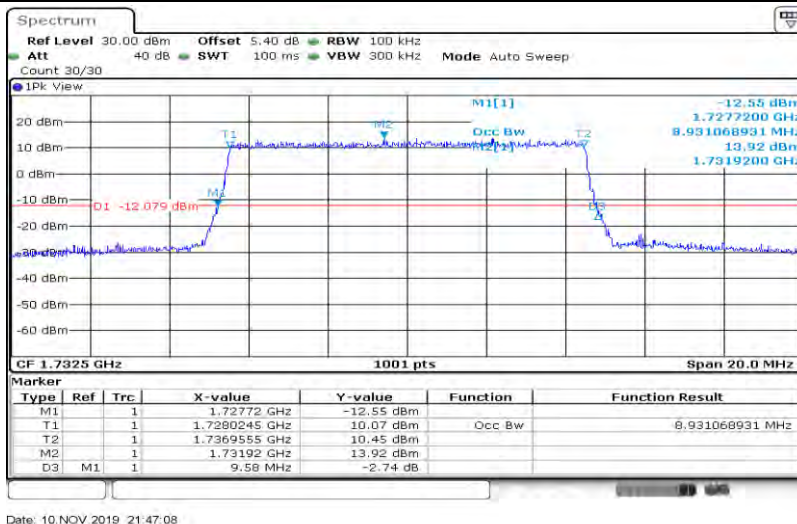


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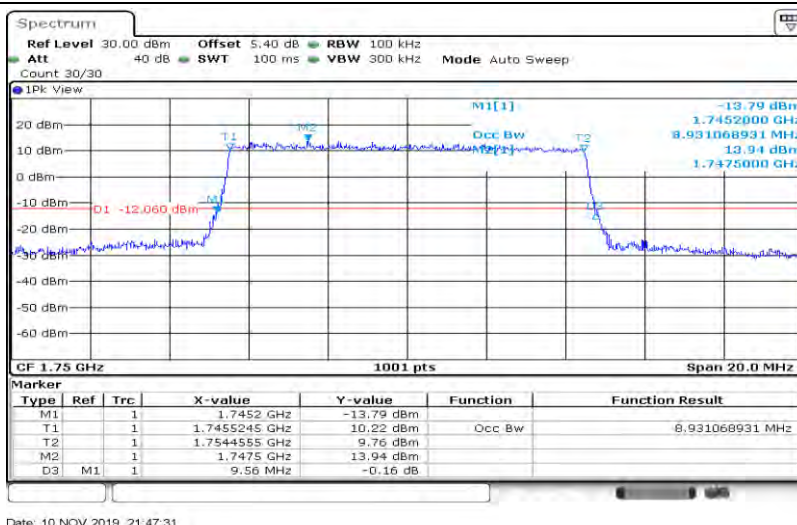


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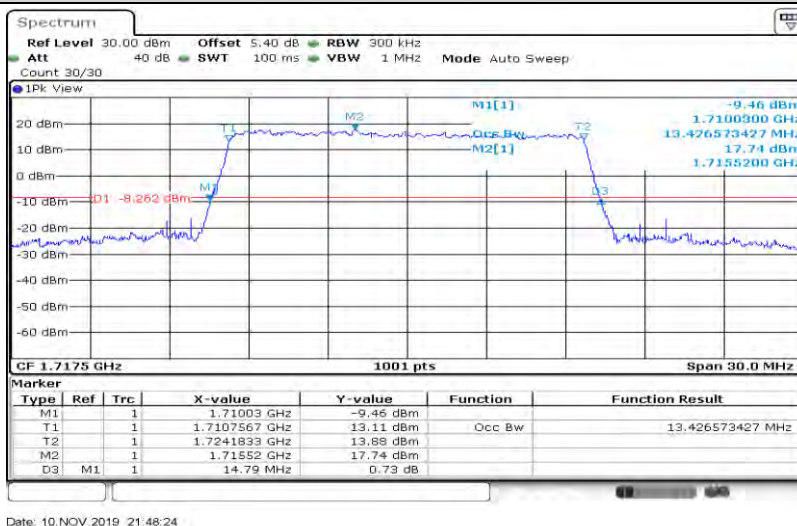


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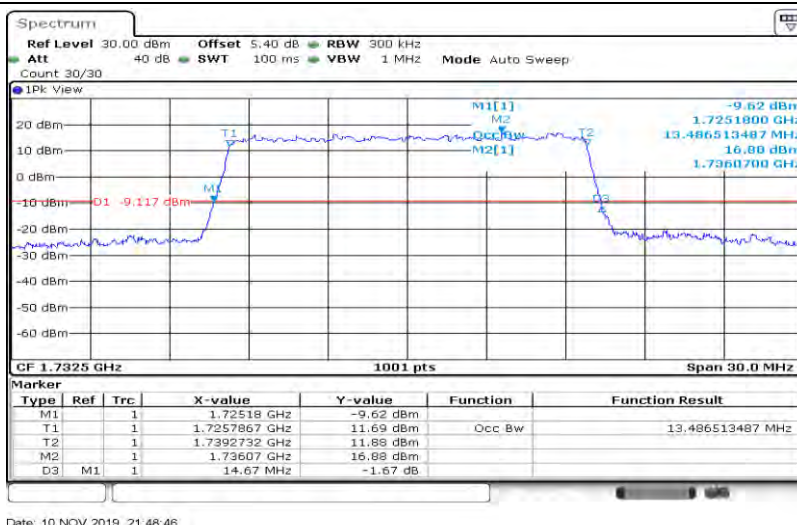


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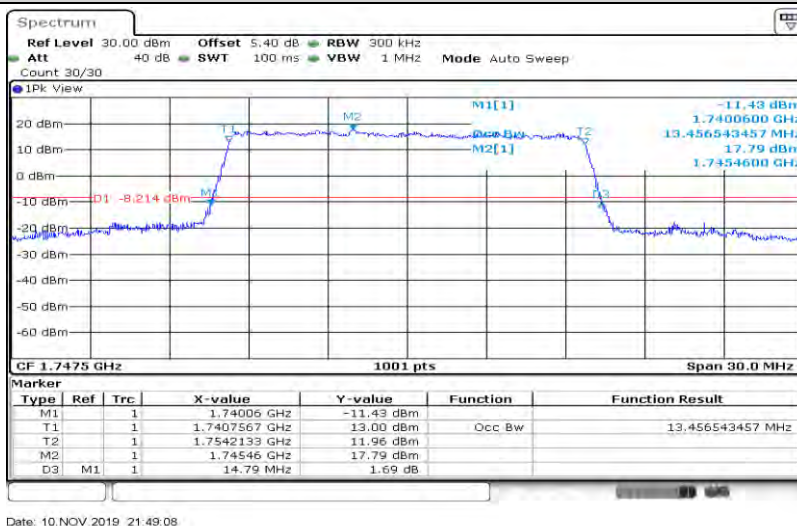


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Band4-15MHz-QPSK-20325-75RB#0-13.457



Band4-15MHz-64QAM-20025-75RB#0-13.427





Band4-15MHz-64QAM-20175-75RB#0-13.427

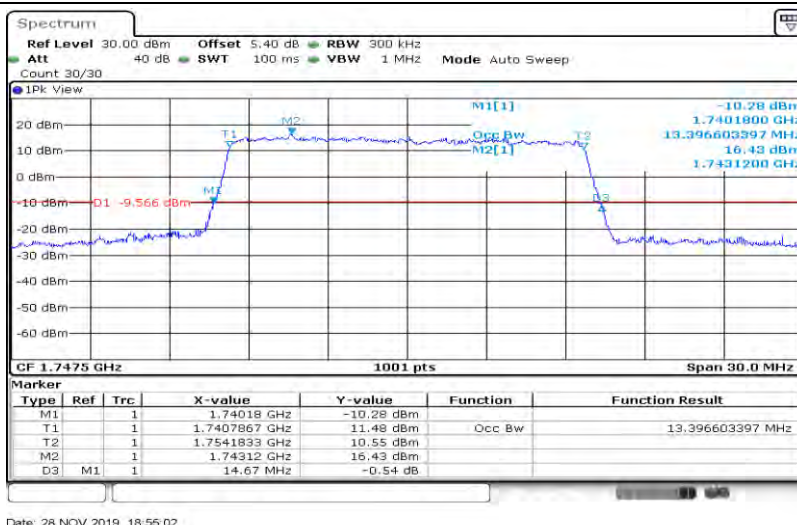


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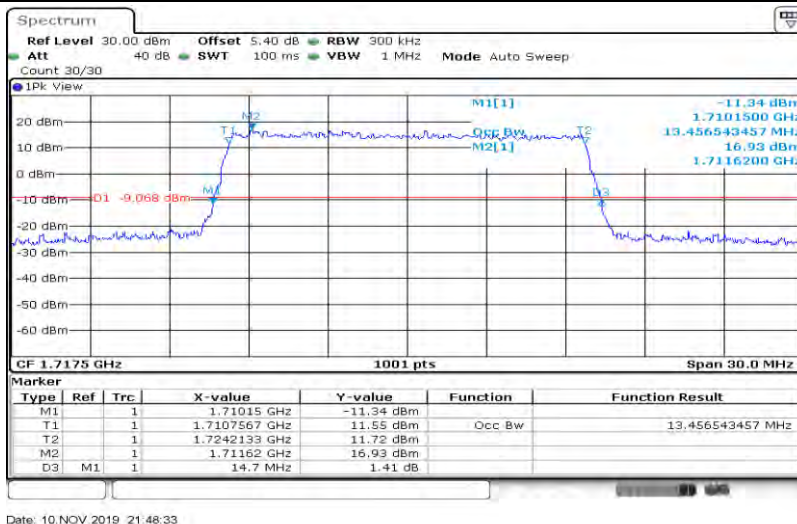


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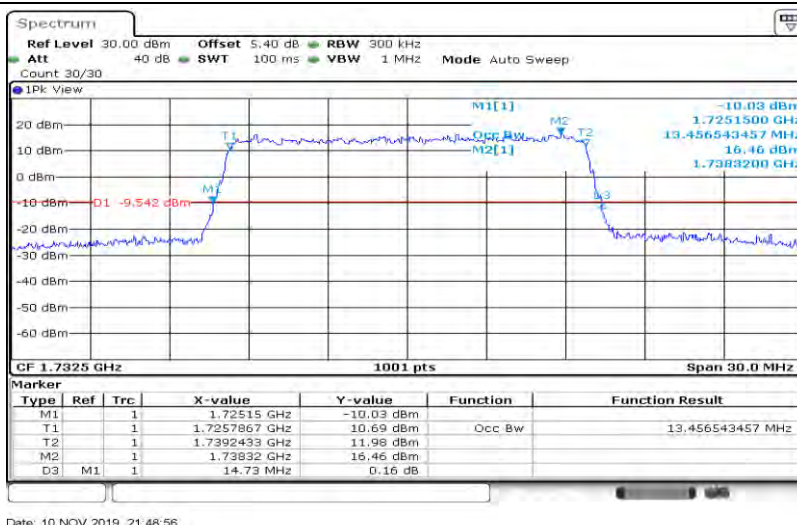


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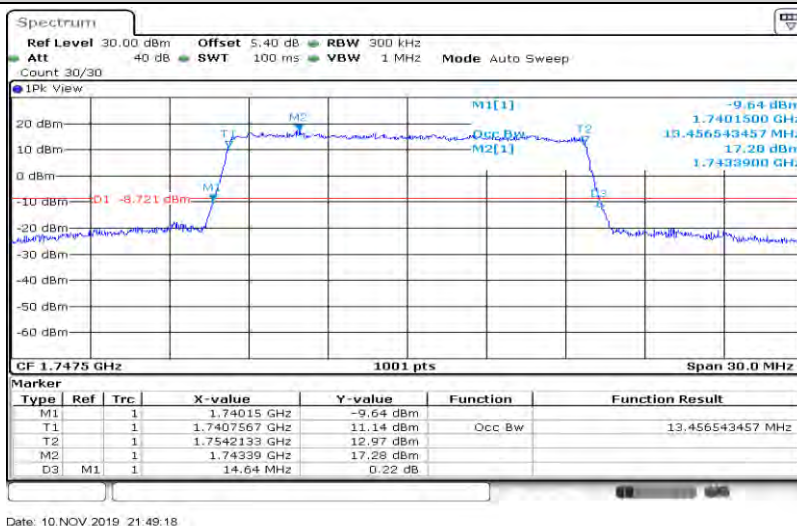


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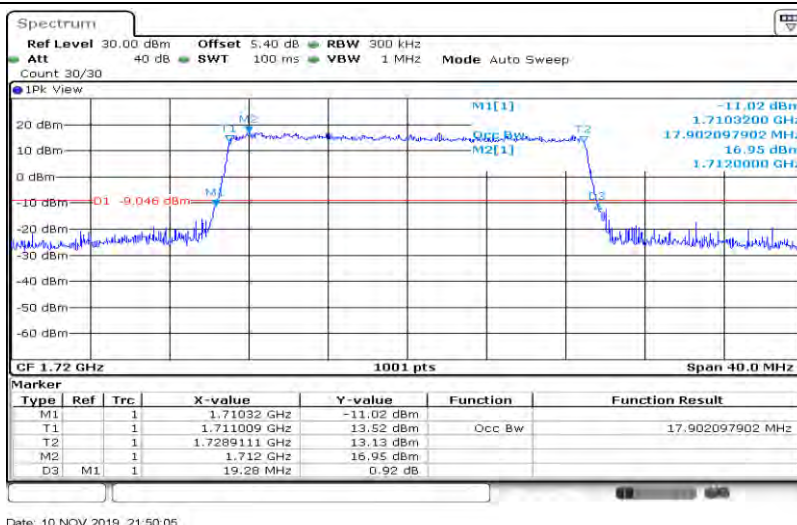


Band4-20MHz-QPSK-20050-100RB#0-17.902

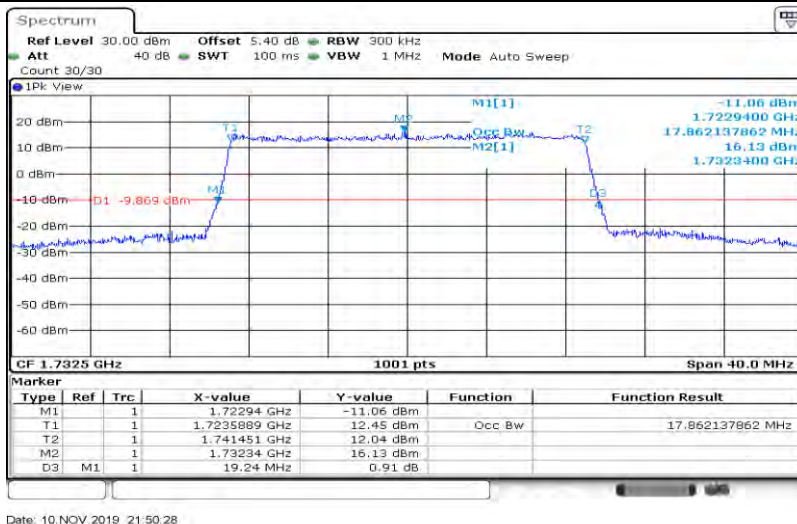


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Band4-20MHz-QPSK-20175-100RB#0-17.862

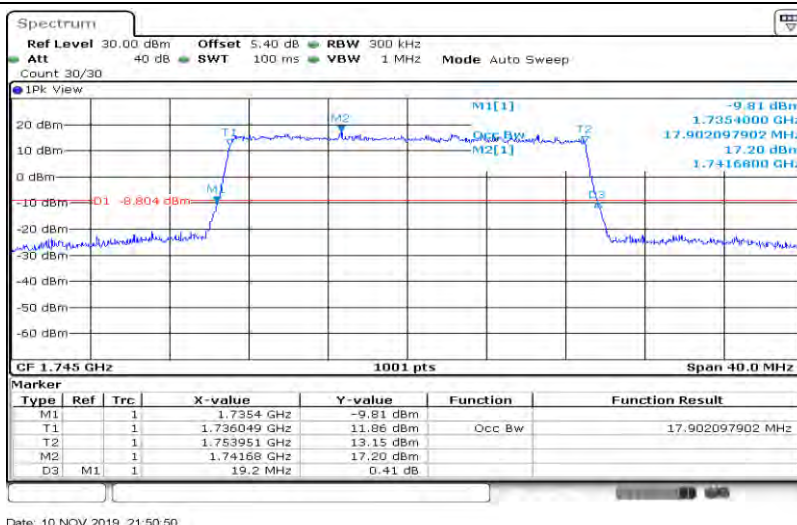


Band4-20MHz-QPSK-20300-100RB#0-17.902



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Band4-20MHz-64QAM-20050-100RB#0-17.902

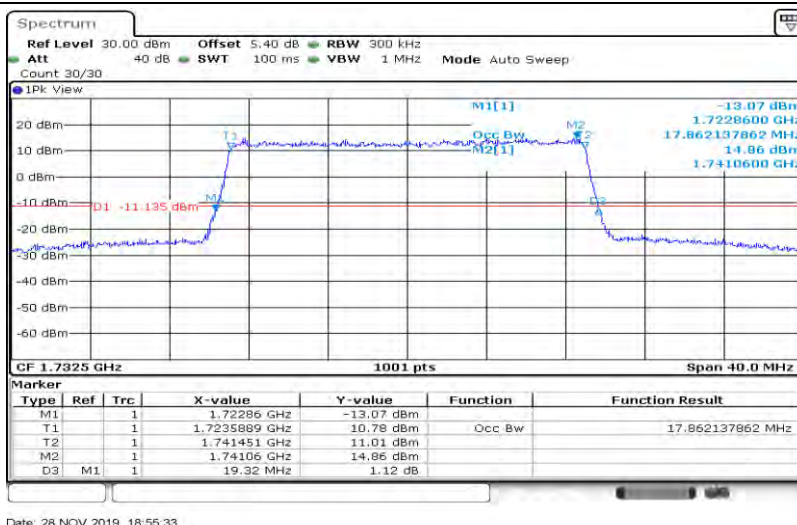


Band4-20MHz-64QAM-20175-100RB#0-17.862



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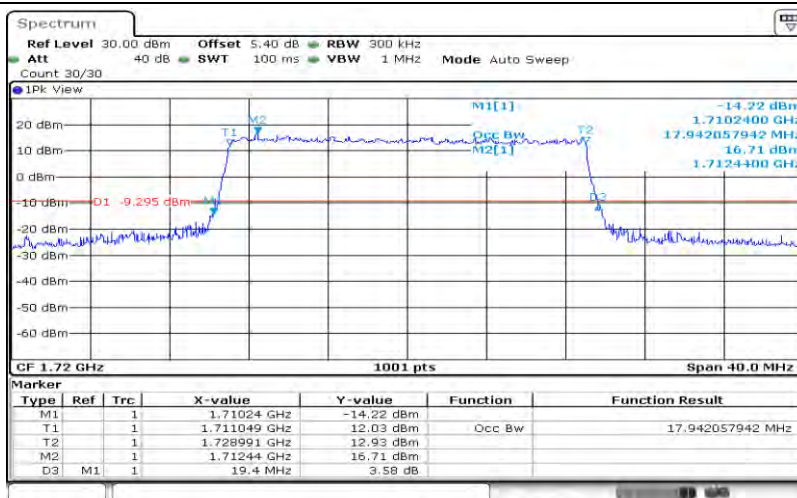


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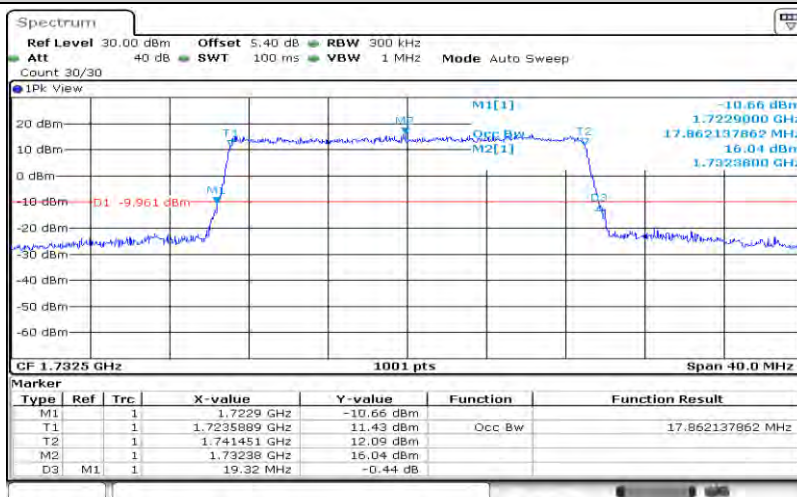


Band4-20MHz-16QAM-20050-100RB#0-17.942





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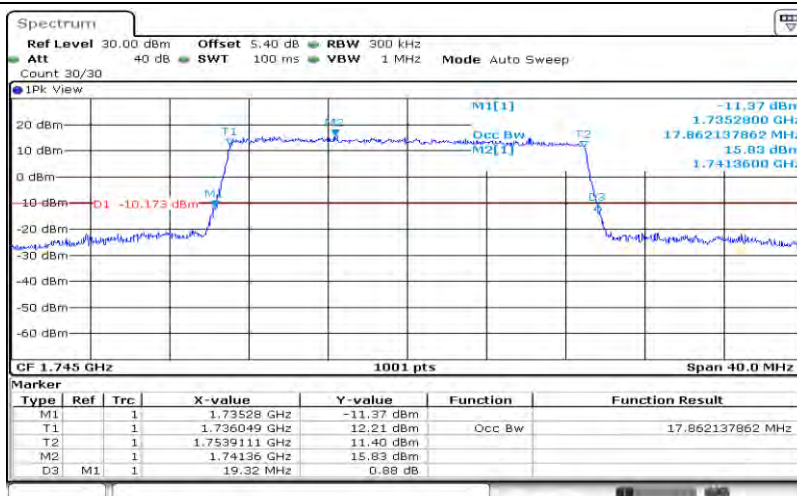


Band4-20MHz-16QAM-20300-100RB#0-17.862



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5. Band Edge Compliance

5.1. Test Plots

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



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



Band4-1.4MHz-QPSK-20393-1RB#5

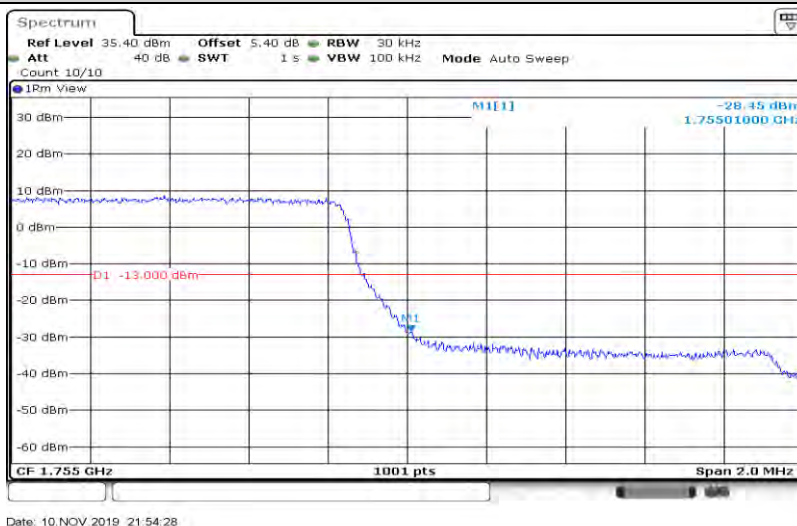


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Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-64QAM-19957-1RB#0



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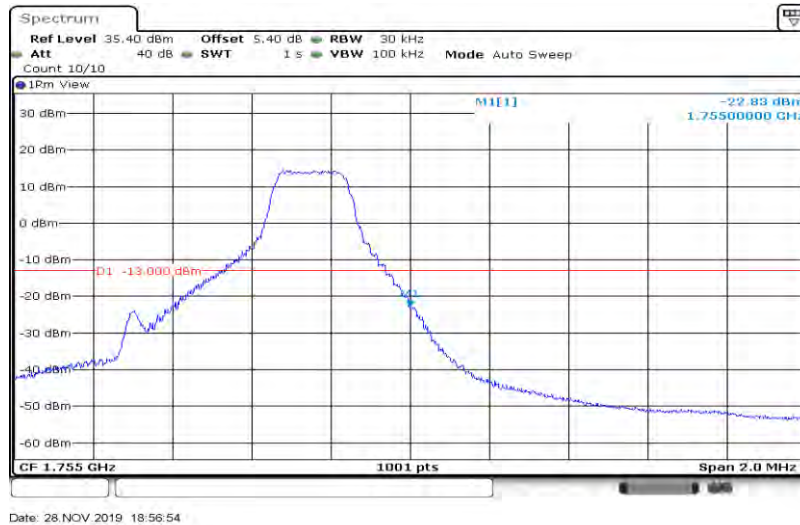


Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20393-1RB#5





Band4-1.4MHz-64QAM-20393-6RB#0



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





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



Band4-1.4MHz-16QAM-20393-1RB#5



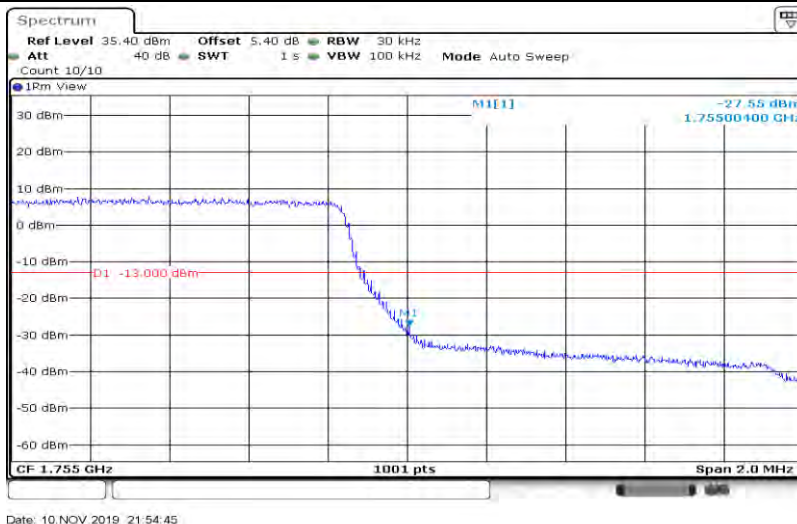
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Band4-1.4MHz-16QAM-20393-6RB#0



Band4-3MHz-QPSK-19965-1RB#0





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



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



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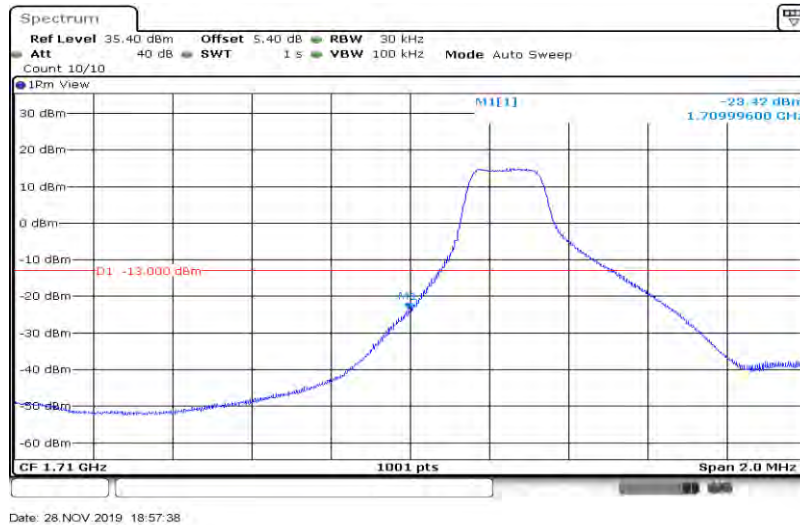
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Date: 28.NOV.2019 18:58:22

Band4-3MHz-64QAM-20385-15RB#0



Date: 28.NOV.2019 18:58:41

Band4-3MHz-16QAM-19965-1RB#0



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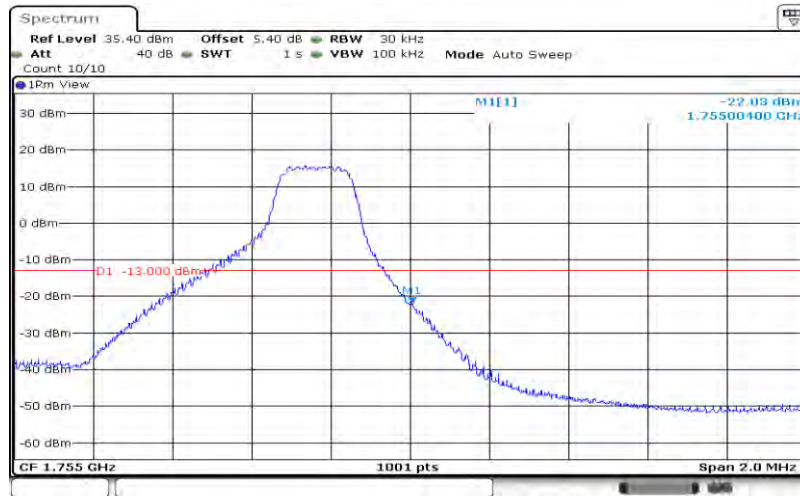


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Band4-3MHz-16QAM-20385-1RB#14





Date: 10, NOV 2019 21:57:22

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



Date: 10, NOV 2019 21:57:56

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



Band4-5MHz-QPSK-20375-1RB#24





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



Band4-5MHz-64QAM-19975-1RB#0





Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20375-1RB#24

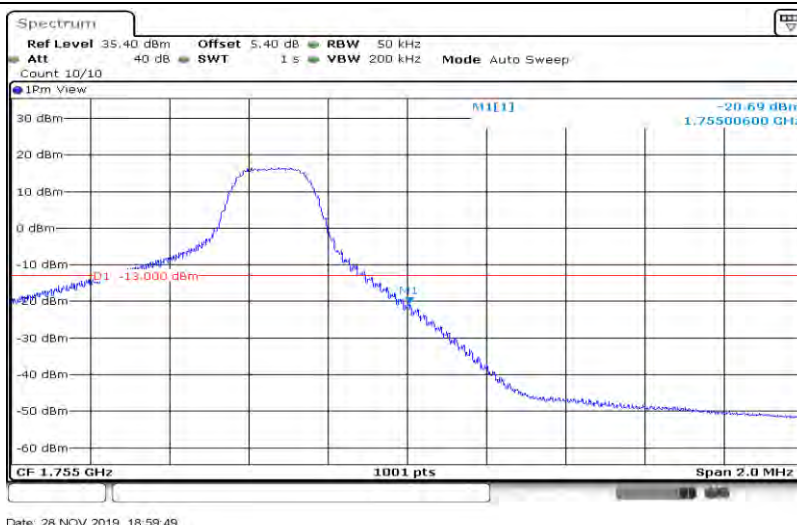


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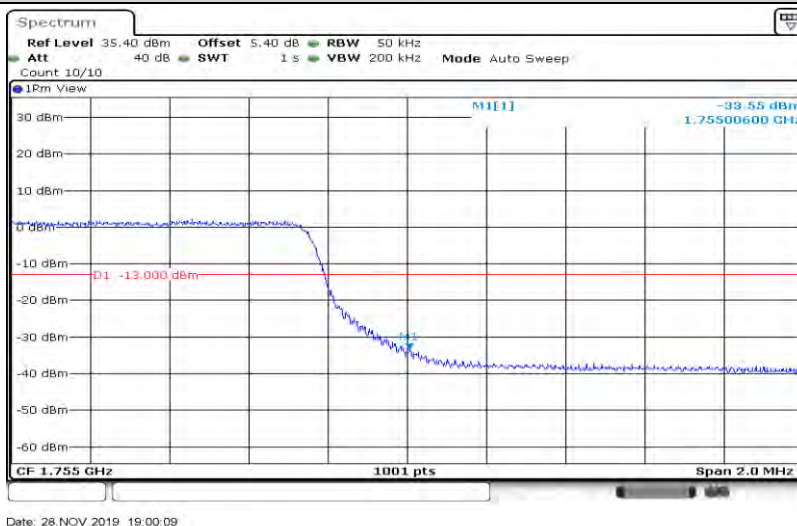
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Band4-5MHz-64QAM-20375-25RB#0



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





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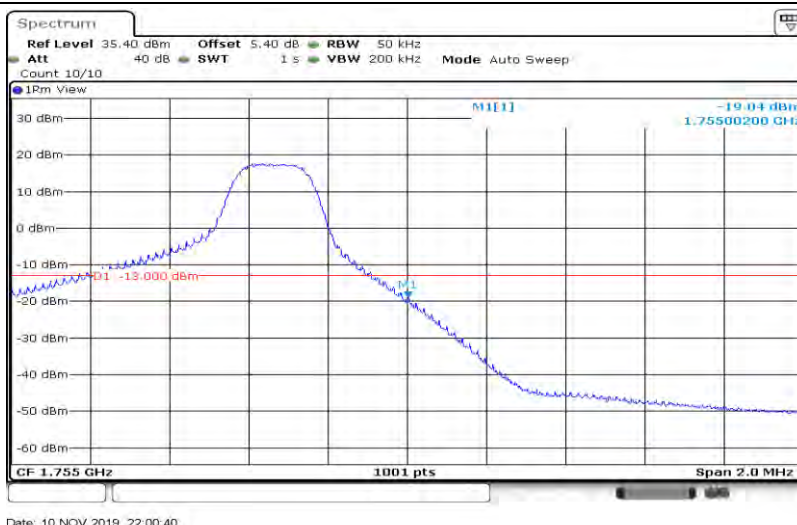
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Band4-5MHz-16QAM-20375-25RB#0



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





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



Band4-10MHz-QPSK-20350-1RB#49



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



Band4-10MHz-64QAM-20000-1RB#0





Band4-10MHz-64QAM-20000-50RB#0



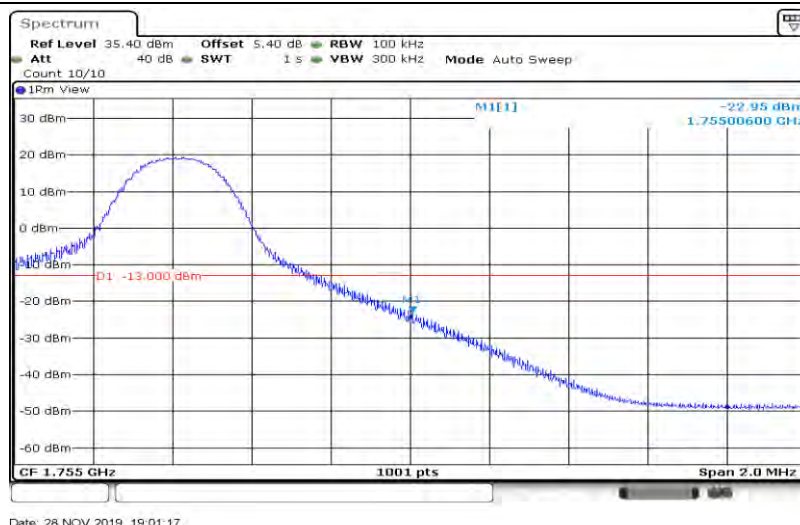
Band4-10MHz-64QAM-20350-1RB#49



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Band4-10MHz-64QAM-20350-50RB#0



Band4-10MHz-16QAM-20000-1RB#0



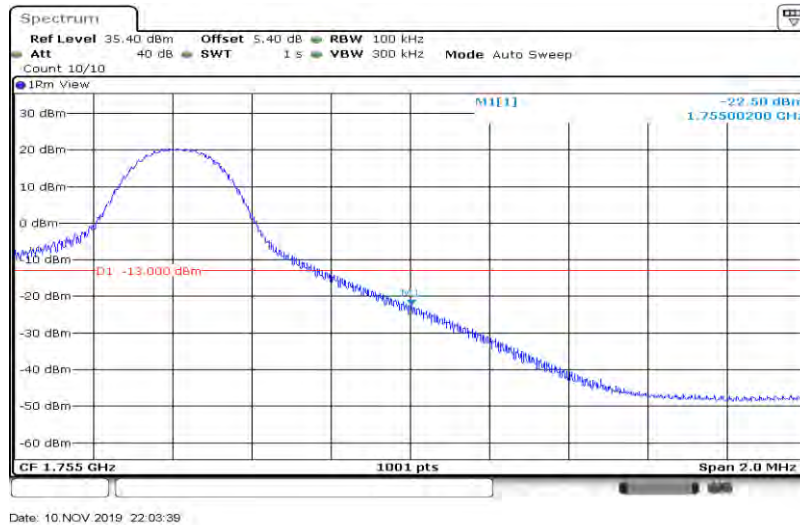


Band4-10MHz-16QAM-20000-50RB#0

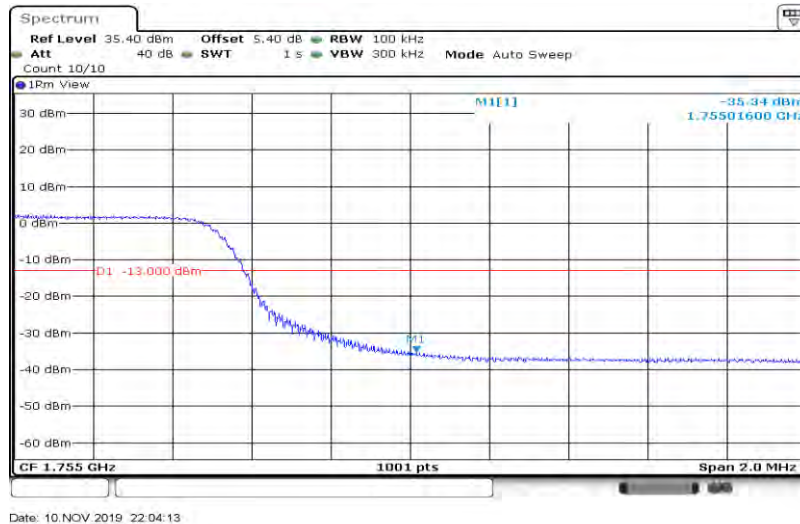


Band4-10MHz-16QAM-20350-1RB#49





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



Band4-15MHz-QPSK-20025-1RB#0



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Date: 10, NOV 2019 22:05:27

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



Date: 10, NOV 2019 22:06:02

Band4-15MHz-QPSK-20325-1RB#74



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Date: 10, NOV 2019 22:06:43

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



Date: 10, NOV 2019 22:07:19

Band4-15MHz-64QAM-20025-1RB#0



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Shenzhen Branch, Inspection & Testing Services

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Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20325-1RB#74





Band4-15MHz-64QAM-20325-75RB#0



Band4-15MHz-16QAM-20025-1RB#0



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Date: 10, NOV 2019 22:05:45

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



Date: 10, NOV 2019 22:06:20

Band4-15MHz-16QAM-20325-1RB#74



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Date: 10, NOV 2019 22:07:01

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



Date: 10, NOV 2019 22:07:37

Band4-20MHz-QPSK-20050-1RB#0





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



Band4-20MHz-QPSK-20300-1RB#99



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Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-64QAM-20050-1RB#0



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Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20300-1RB#99



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Band4-20MHz-64QAM-20300-100RB#0



Band4-20MHz-16QAM-20050-1RB#0



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



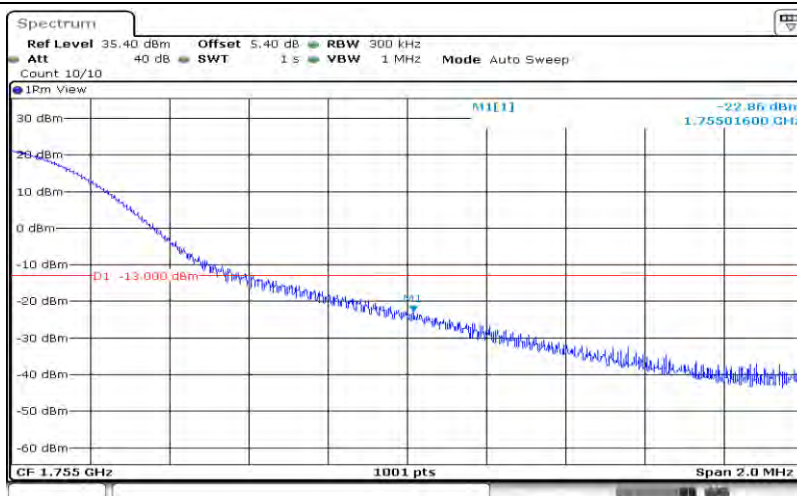
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Date: 10, NOV 2019 22:10:12

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



Date: 10, NOV 2019 22:10:49



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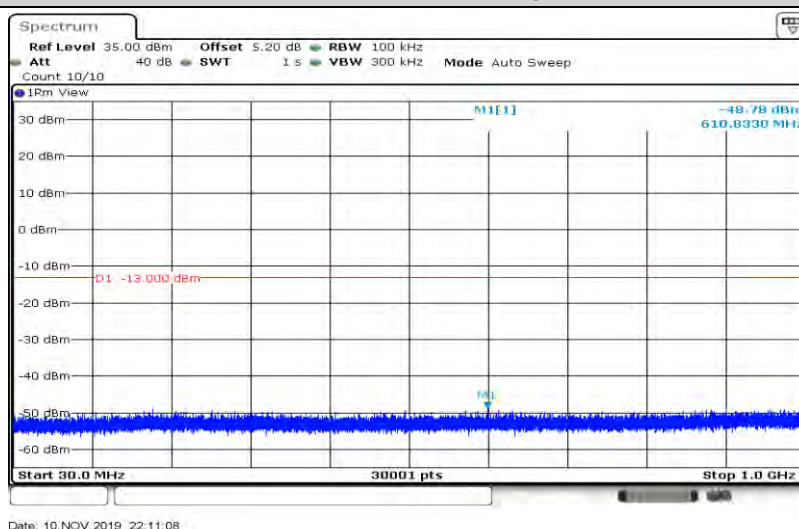
6. Spurious Emission at Antenna Terminal

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

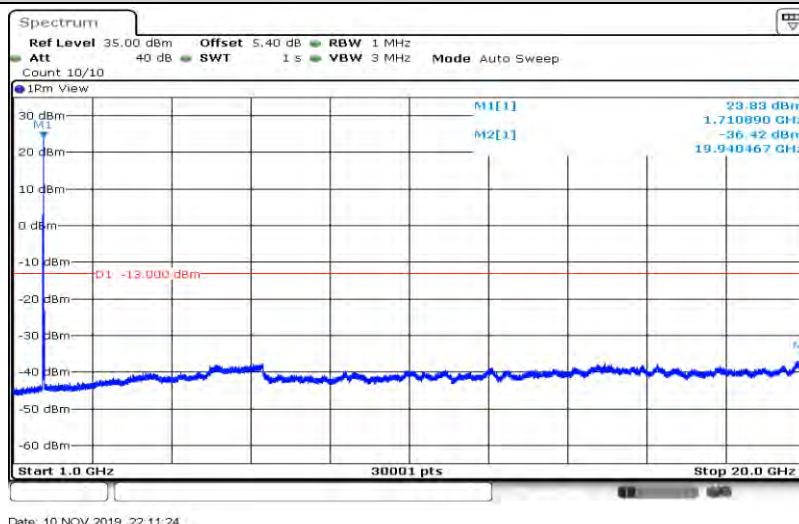
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz

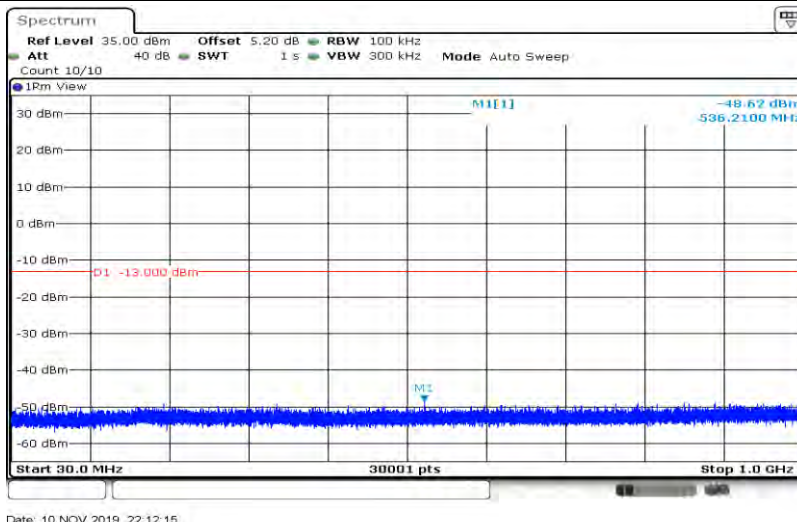


Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz

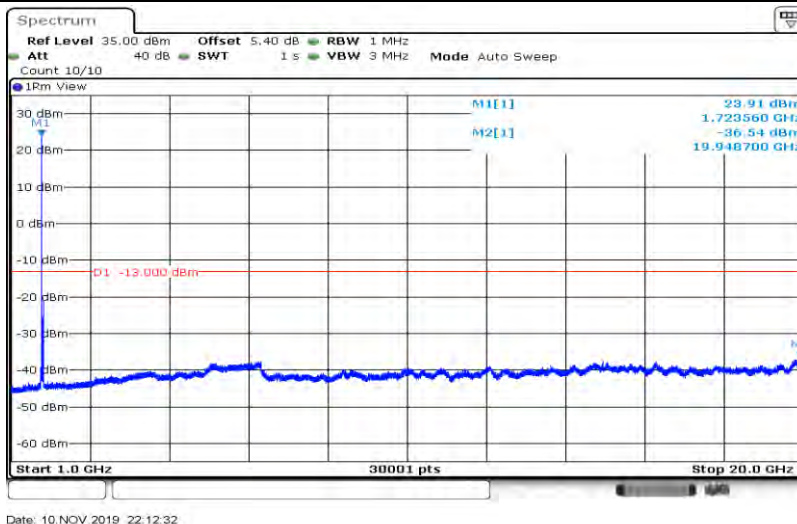


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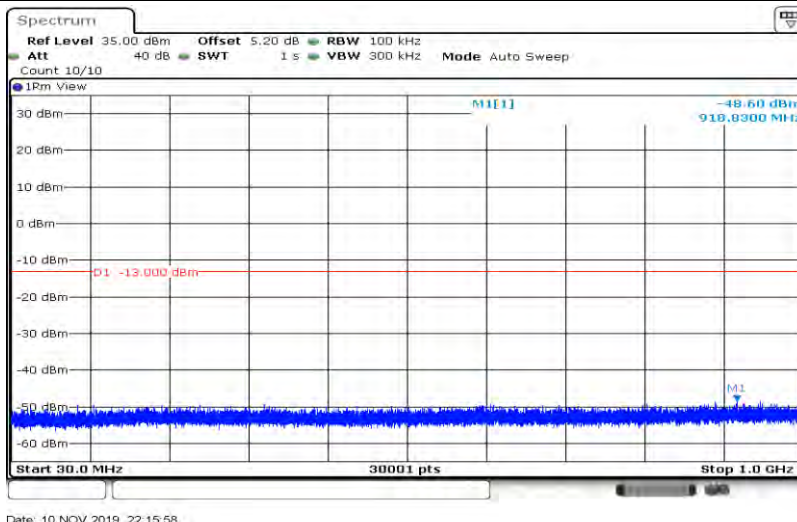


Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

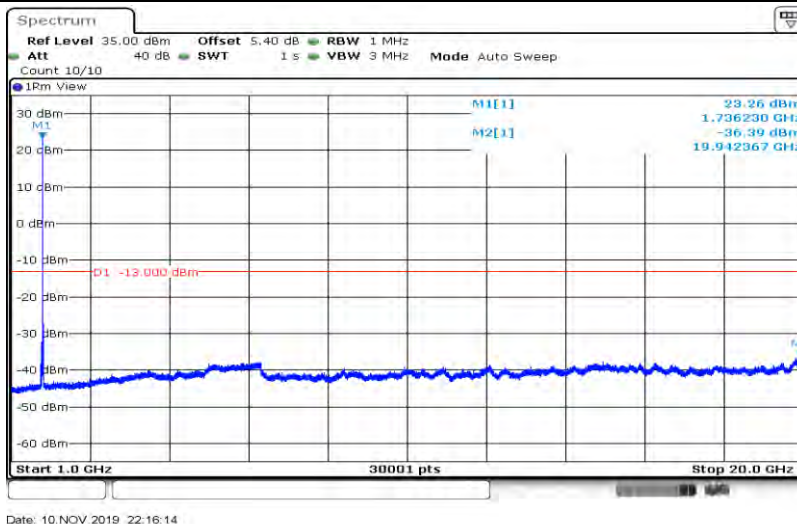


Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



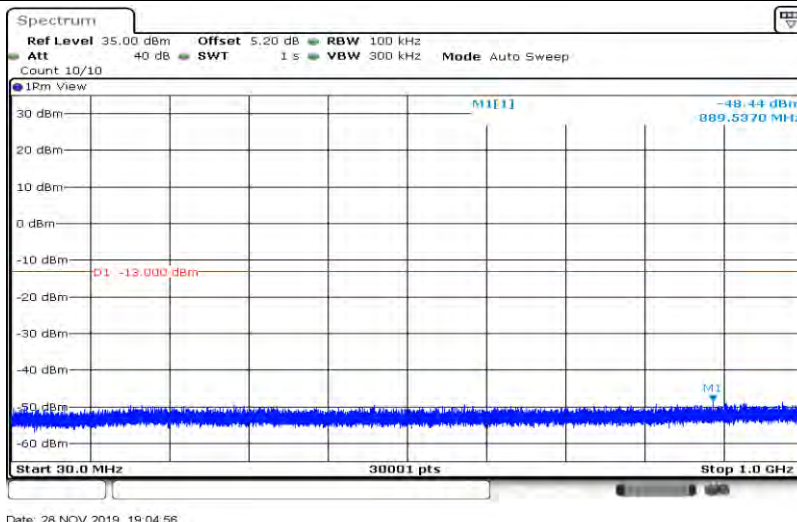


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

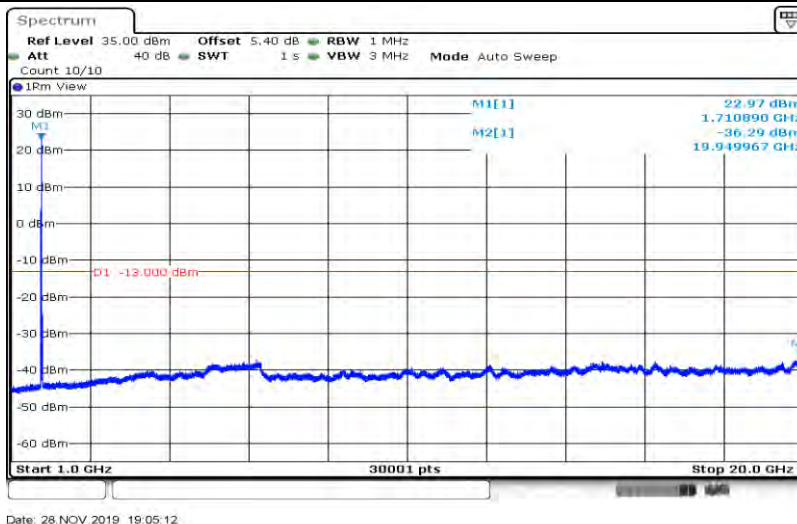


Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



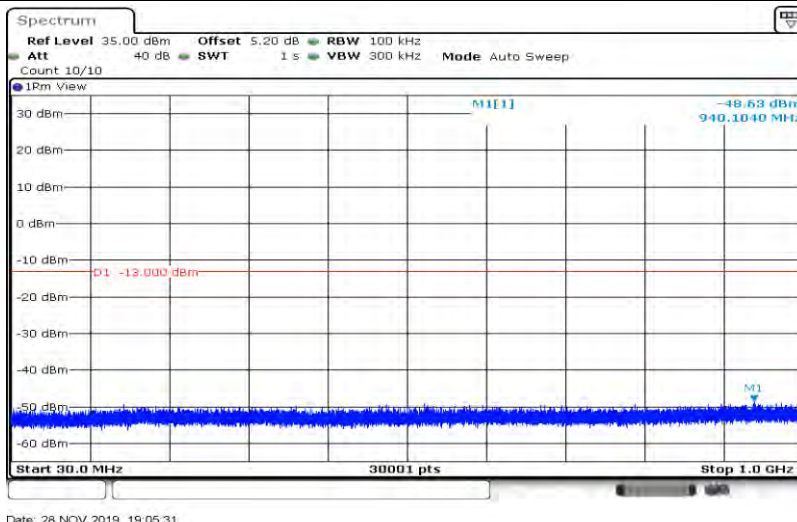


Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz

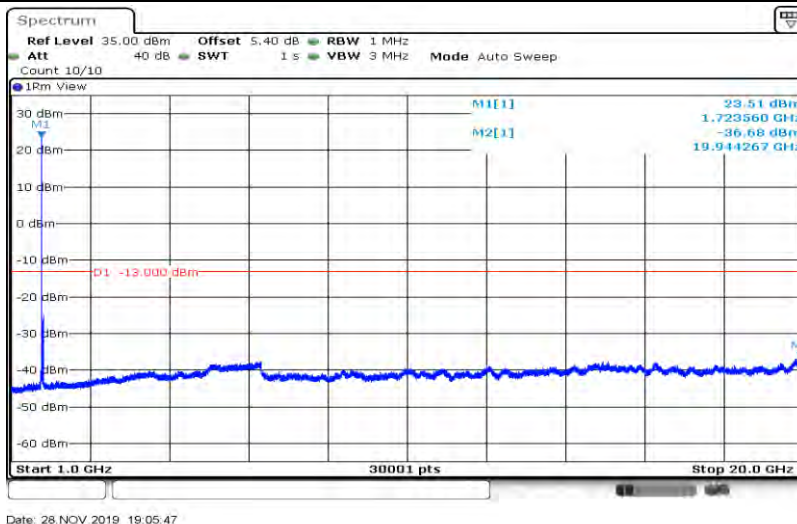


Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



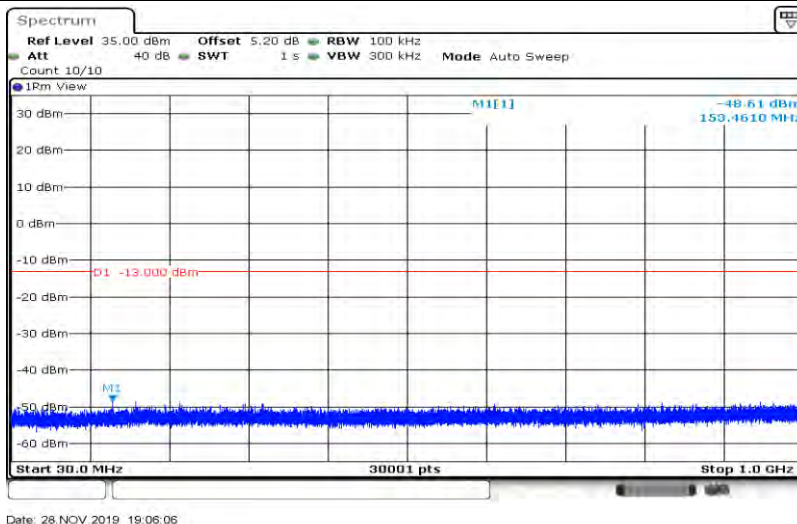


Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz

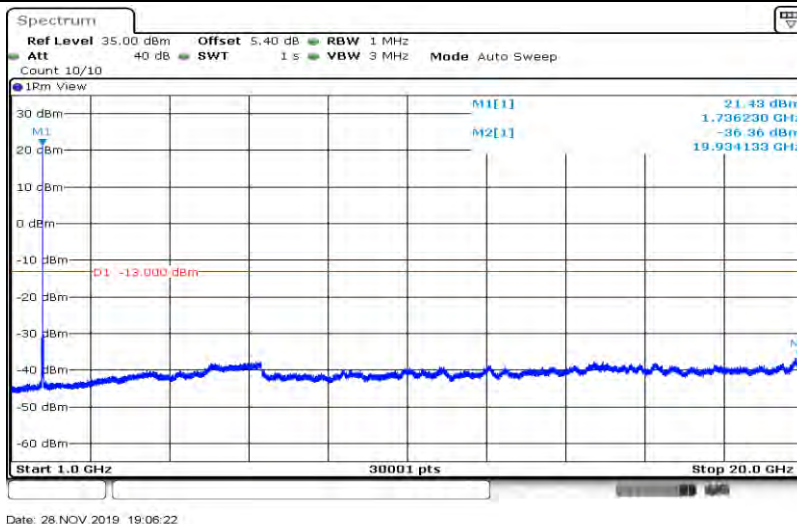


Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



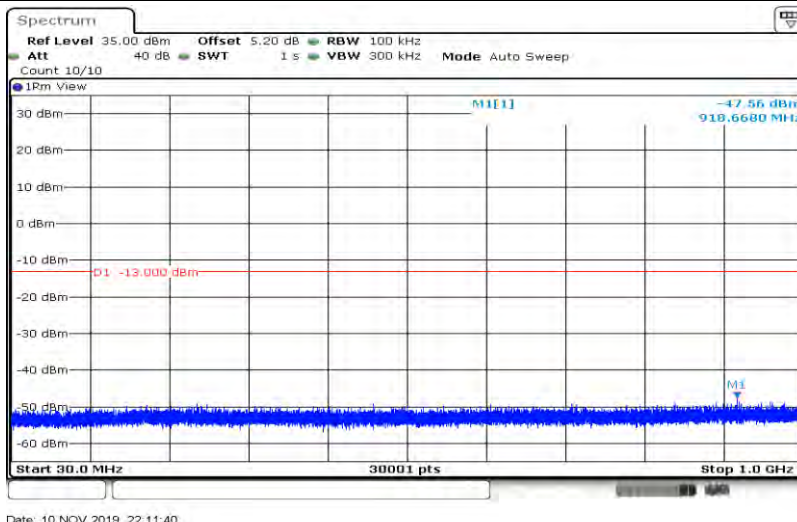


Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz



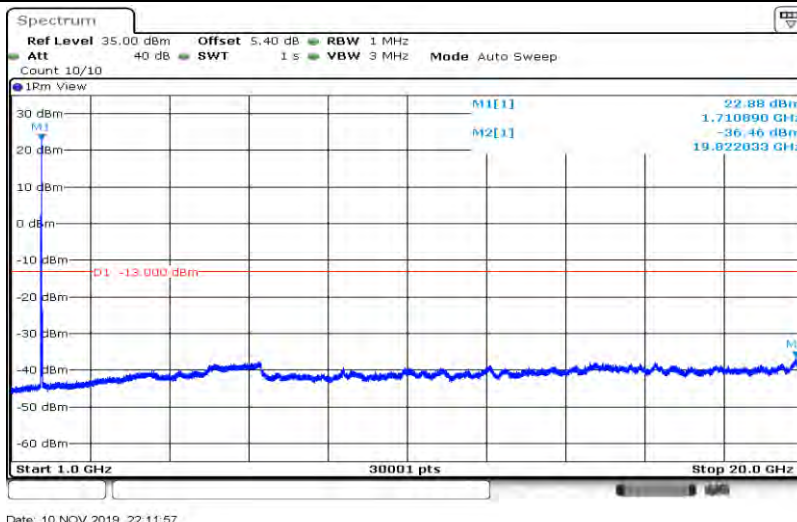
Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz





Date: 10, NOV 2019 22:11:40

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 10, NOV 2019 22:11:57

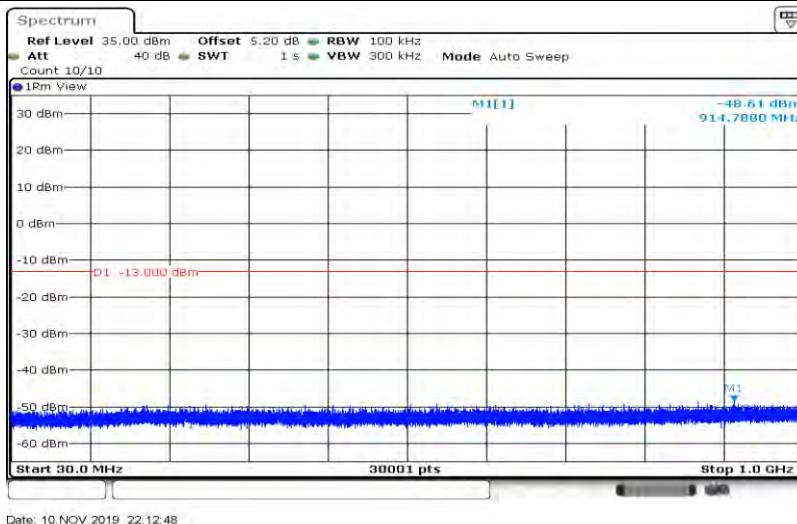
Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



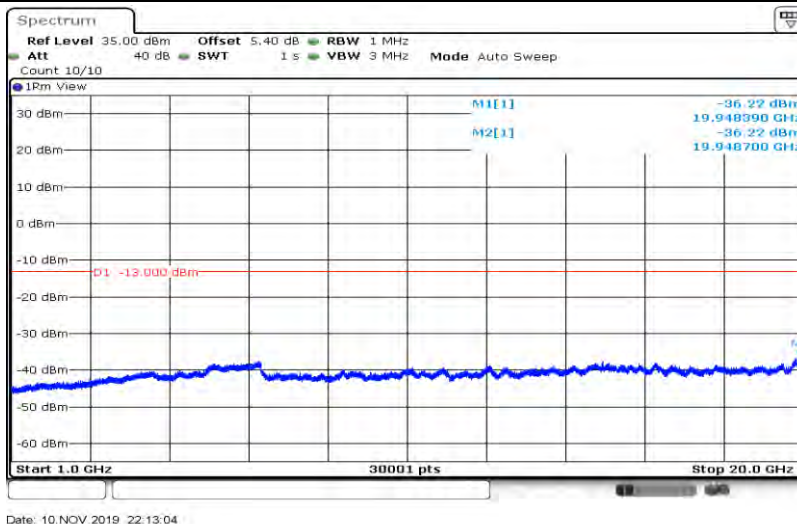
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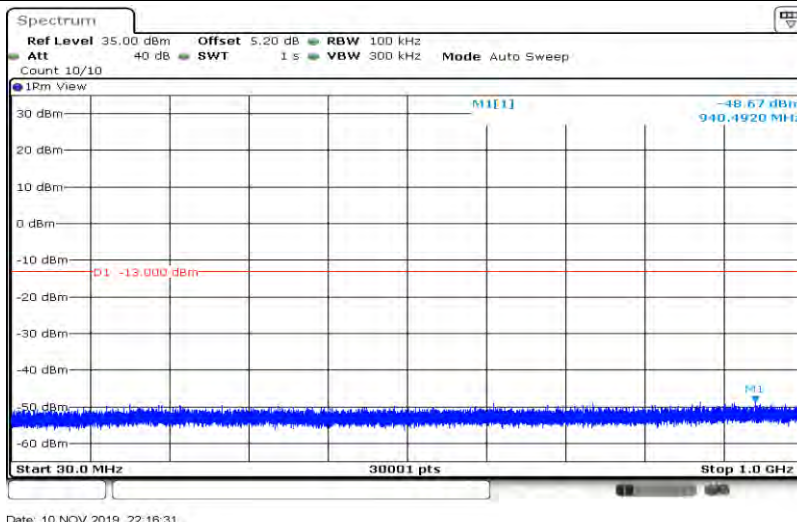


Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

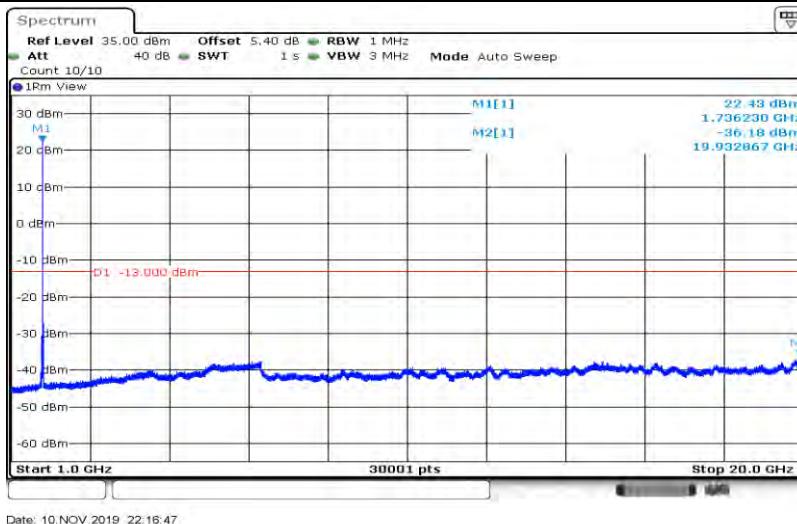


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz





Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.6193	-68.62	-13.00	55.62	Vertical
112.7451	-65.05	-13.00	52.05	Vertical
712.7201	-63.09	-13.00	50.09	Vertical
2701.9404	-37.54	-13.00	24.54	Vertical
8545.1848	-52.14	-13.00	39.14	Vertical
17994.4998	-34.59	-13.00	21.59	Vertical
37.1299	-64.60	-13.00	51.60	Horizontal
236.5233	-68.05	-13.00	55.05	Horizontal
547.1814	-65.64	-13.00	52.64	Horizontal
2698.7397	-36.28	-13.00	23.28	Horizontal
10043.2348	-48.96	-13.00	35.96	Horizontal
16399.9467	-38.96	-13.00	25.96	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.6193	-68.56	-13.00	55.56	Vertical
114.1517	-65.59	-13.00	52.59	Vertical
509.3495	-66.38	-13.00	53.38	Vertical
2699.9400	-37.53	-13.00	24.53	Vertical
9291.2097	-48.60	-13.00	35.60	Vertical
17996.4999	-35.05	-13.00	22.05	Vertical
43.1442	-63.36	-13.00	50.36	Horizontal
242.7801	-68.75	-13.00	55.75	Horizontal
522.2996	-65.44	-13.00	52.44	Horizontal
2699.1398	-36.27	-13.00	23.27	Horizontal
9309.2103	-48.86	-13.00	35.86	Horizontal
16393.9465	-38.50	-13.00	25.50	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.1913	-72.56	-13.00	59.56	Vertical
112.1146	-64.86	-13.00	51.86	Vertical
516.0913	-66.02	-13.00	53.02	Vertical
2700.3401	-37.20	-13.00	24.20	Vertical
9879.7293	-48.73	-13.00	35.73	Vertical
17987.9996	-34.11	-13.00	21.11	Vertical
43.0957	-63.30	-13.00	50.30	Horizontal
238.1239	-68.02	-13.00	55.02	Horizontal
609.0220	-63.03	-13.00	50.03	Horizontal
2701.1402	-36.09	-13.00	23.09	Horizontal
9311.2104	-48.34	-13.00	35.34	Horizontal
16395.9465	-38.73	-13.00	25.73	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-14.81	-0.008610	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-15.25	-0.008866	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-17.41	-0.010122	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-12.26	-0.007076	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-17.15	-0.009899	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-11.74	-0.006776	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-13.98	-0.008011	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-13.19	-0.007559	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-10.09	-0.005782	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-9.70	-0.005640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-11.30	-0.006570	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	-8.00	-0.004618	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-6.10	-0.003521	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-8.40	-0.004848	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-5.60	-0.003209	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-12.12	-0.007047	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-12.66	-0.007360	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-13.28	-0.007721	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-13.29	-0.007671	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-14.68	-0.008473	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-11.04	-0.006372	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-12.19	-0.006986	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-11.42	-0.006544	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-15.46	-0.008860	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-12.96	-0.007535	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-15.15	-0.008808	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-12.76	-0.007419	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-22.65	-0.013169	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-13.79	-0.008017	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-10.57	-0.006145	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-13.38	-0.007779	±2.5	PASS



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Band4	20MHz	QPSK	20050	100RB#0	NV	50	-13.76	-0.008000	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-14.63	-0.008444	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-14.39	-0.008306	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-13.63	-0.007867	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-18.35	-0.010592	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-14.22	-0.008208	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-12.65	-0.007302	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-15.55	-0.008975	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-15.39	-0.008883	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-11.57	-0.006630	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-9.54	-0.005467	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-10.66	-0.006109	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-12.04	-0.006900	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-10.64	-0.006097	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-8.27	-0.004739	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-9.98	-0.005719	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-14.12	-0.008092	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-9.10	-0.005291	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-7.00	-0.004070	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-8.00	-0.004651	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-3.60	-0.002093	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-2.20	-0.001279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-6.10	-0.003547	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-14.10	-0.008139	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-9.90	-0.005714	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-11.50	-0.006638	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-4.00	-0.002309	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	-8.80	-0.005079	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-4.70	-0.002713	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-8.70	-0.005022	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-7.00	-0.004011	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-5.00	-0.002865	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-10.10	-0.005788	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-5.10	-0.002923	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-6.10	-0.003496	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-11.16	-0.006488	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-10.53	-0.006122	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-14.32	-0.008326	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-10.93	-0.006355	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-14.32	-0.008326	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-11.60	-0.006744	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-15.02	-0.008733	±2.5	PASS



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Band4	20MHz	16QAM	20050	100RB#0	NV	50	-13.33	-0.007750	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-15.91	-0.009183	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-8.08	-0.004664	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-9.54	-0.005506	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-9.83	-0.005674	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	8.17	0.004716	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-10.71	-0.006182	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-13.07	-0.007544	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-11.20	-0.006465	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-12.12	-0.006946	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-13.23	-0.007582	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-11.77	-0.006745	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-11.46	-0.006567	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-9.83	-0.005633	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-16.29	-0.009335	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-10.14	-0.005811	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-12.45	-0.007135	±2.5	PASS



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