



Appendix B

E-UTRA Band 2



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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
Band2	1.4MHz	QPSK	18607	1RB#0	23.08	23.98	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.29	24.19	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.15	24.05	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.25	24.15	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.21	24.11	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.14	24.04	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.26	23.16	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.10	24.00	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.11	24.01	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.34	24.24	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.37	24.27	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.40	24.30	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.37	24.27	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.41	23.31	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.53	24.43	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.35	24.25	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.44	24.34	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.46	24.36	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.54	24.44	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.57	24.47	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.61	23.51	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.04	22.94	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.86	22.76	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.78	22.68	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.33	23.23	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.40	23.30	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.41	23.31	33.00	PASS



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Band2	1.4MHz	16QAM	18607	6RB#0	21.10	22.00	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.96	22.86	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.92	22.82	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.03	22.93	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.55	23.45	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	22.55	23.45	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.39	23.29	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.37	22.27	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.28	23.18	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.16	23.06	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.22	23.12	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.65	23.55	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.79	23.69	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.75	23.65	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.43	22.33	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.26	24.16	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.32	24.22	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.02	23.92	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.27	23.17	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.29	23.19	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.21	23.11	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.15	23.05	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.23	24.13	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.07	23.97	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.35	24.25	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.36	23.26	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.27	23.17	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.46	23.36	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.31	23.21	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.33	24.23	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.41	24.31	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.60	24.50	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.47	23.37	33.00	PASS



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Band2	3MHz	QPSK	19185	8RB#0	22.63	23.53	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.51	23.41	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.52	23.42	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.79	22.69	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.90	22.80	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.83	22.73	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.14	22.04	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.14	22.04	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.17	22.07	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.28	22.18	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.10	23.00	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.10	23.00	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.14	23.04	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.25	22.15	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.38	22.28	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.37	22.27	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.37	22.27	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.31	23.21	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.26	23.16	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.15	23.05	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.38	22.28	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.46	22.36	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#4	21.52	22.42	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.58	22.48	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.17	24.07	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.15	24.05	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.25	24.15	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.20	23.10	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.15	23.05	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.26	23.16	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.39	23.29	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.35	24.25	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.43	24.33	33.00	PASS



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Band2	5MHz	QPSK	18900	1RB#12	23.24	24.14	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.34	23.24	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	22.29	23.19	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	22.32	23.22	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.37	23.27	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.40	24.30	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.53	24.43	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.59	24.49	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	22.37	23.27	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	22.56	23.46	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	22.49	23.39	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.51	23.41	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.71	22.61	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.20	23.10	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.95	22.85	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.27	22.17	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	21.23	22.13	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	21.17	22.07	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.31	22.21	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.88	22.78	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.33	23.23	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.98	22.88	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	21.28	22.18	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.45	22.35	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.42	22.32	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.32	22.22	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.95	22.85	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.23	23.13	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.75	23.65	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	21.30	22.20	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	21.55	22.45	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	21.52	22.42	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.46	22.36	33.00	PASS



Band2	10MHz	QPSK	18650	1RB#0	23.27	24.17	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.28	24.18	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.01	23.91	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.34	23.24	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.51	23.41	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.32	23.22	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.41	23.31	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.26	24.16	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.18	24.08	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.53	24.43	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.37	23.27	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	22.53	23.43	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	22.34	23.24	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.30	23.20	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.52	24.42	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.26	24.16	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.34	24.24	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	22.36	23.26	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	22.31	23.21	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	22.46	23.36	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.24	23.14	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.10	23.00	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.03	22.93	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.91	22.81	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.32	22.22	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#12	21.38	22.28	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.38	22.28	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.47	22.37	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.15	23.05	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.19	23.09	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.16	23.06	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#25	21.43	22.33	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.38	22.28	33.00	PASS



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Band2	10MHz	16QAM	18900	25RB#0	21.45	22.35	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.36	22.26	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.05	22.95	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.25	23.15	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.08	22.98	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.29	22.19	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#12	21.32	22.22	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#0	21.32	22.22	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.40	22.30	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.85	23.75	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.31	24.21	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.14	24.04	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	22.14	23.04	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	22.30	23.20	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	22.46	23.36	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.29	23.19	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.24	24.14	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.42	24.32	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.16	24.06	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	22.31	23.21	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	22.26	23.16	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	22.39	23.29	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.26	23.16	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.29	24.19	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.58	24.48	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.36	24.26	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	22.39	23.29	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	22.30	23.20	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	22.36	23.26	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.21	23.11	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.74	22.64	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.00	22.90	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.94	22.84	33.00	PASS



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Band2	15MHz	16QAM	18675	36RB#0	21.25	22.15	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#39	21.25	22.15	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#18	21.25	22.15	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.28	22.18	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.06	22.96	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.05	22.95	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.87	22.77	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#18	21.33	22.23	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#0	21.25	22.15	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#39	21.34	22.24	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.43	22.33	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.27	23.17	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.13	23.03	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.05	22.95	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#0	21.23	22.13	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#39	21.34	22.24	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#18	21.46	22.36	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.29	22.19	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.00	23.90	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.27	24.17	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.21	24.11	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.37	23.27	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.43	23.33	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.13	23.03	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.33	23.23	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.04	23.94	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.09	23.99	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.93	24.83	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.44	23.34	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.39	23.29	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.12	23.02	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.29	23.19	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.34	24.24	33.00	PASS



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Band2	20MHz	QPSK	19100	1RB#49	23.47	24.37	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.18	24.08	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.55	23.45	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.48	23.38	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.25	23.15	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.22	23.12	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.82	22.72	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.02	22.92	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.96	22.86	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#50	21.33	22.23	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#0	21.25	22.15	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#25	21.30	22.20	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.31	22.21	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.04	22.94	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.23	23.13	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.91	22.81	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#0	21.34	22.24	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.30	22.20	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#25	21.31	22.21	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.35	22.25	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.07	22.97	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.12	23.02	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.19	23.09	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#0	21.48	22.38	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#25	21.29	22.19	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#50	21.33	22.23	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.31	22.21	33.00	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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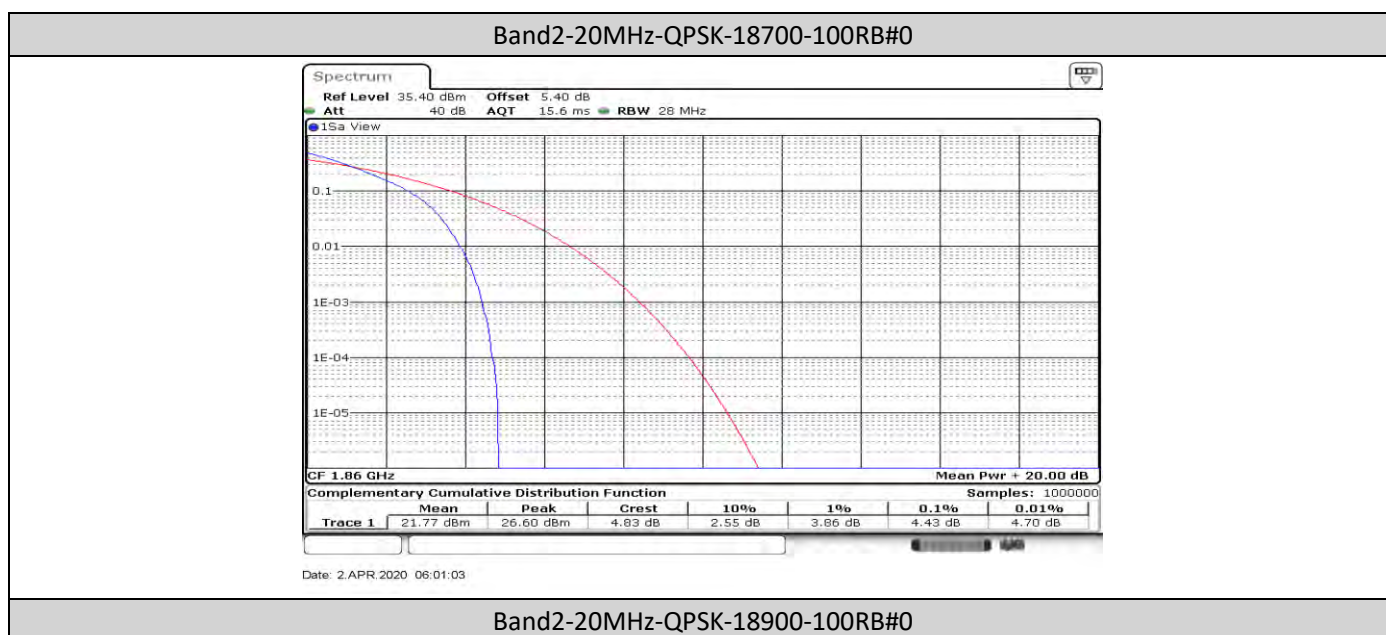


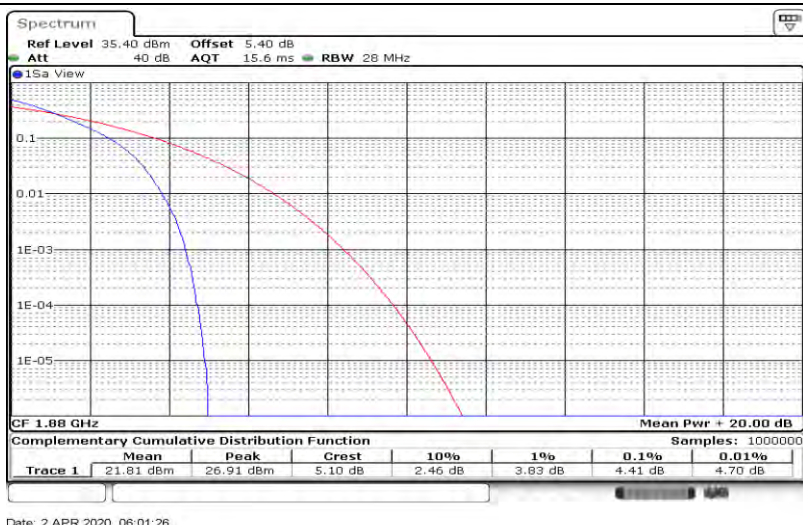
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.43	13.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.41	13.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.38	13.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.22	13.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.22	13.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.19	13.00	PASS

2.2. Test Plots





Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-100RB#0





Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0



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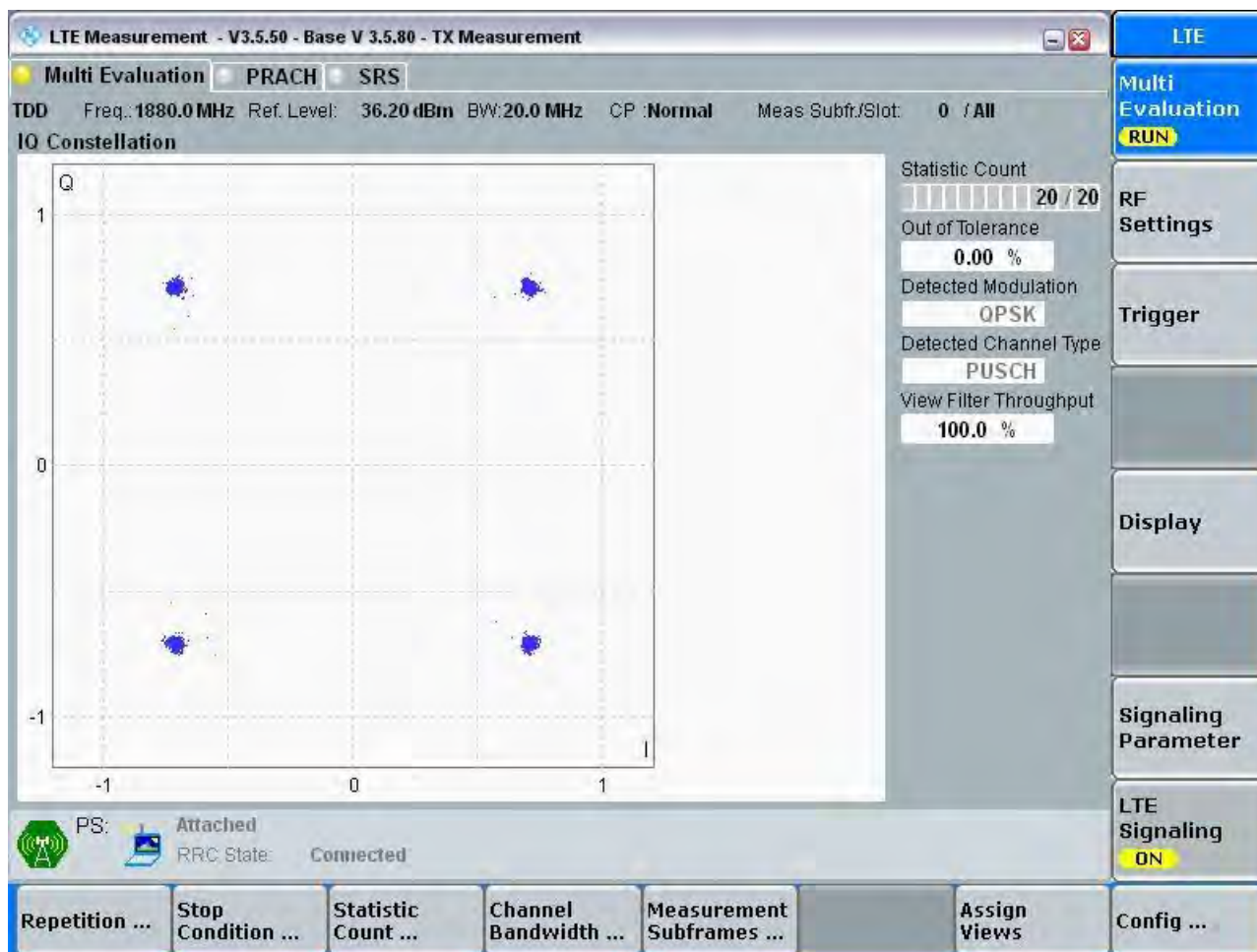
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH

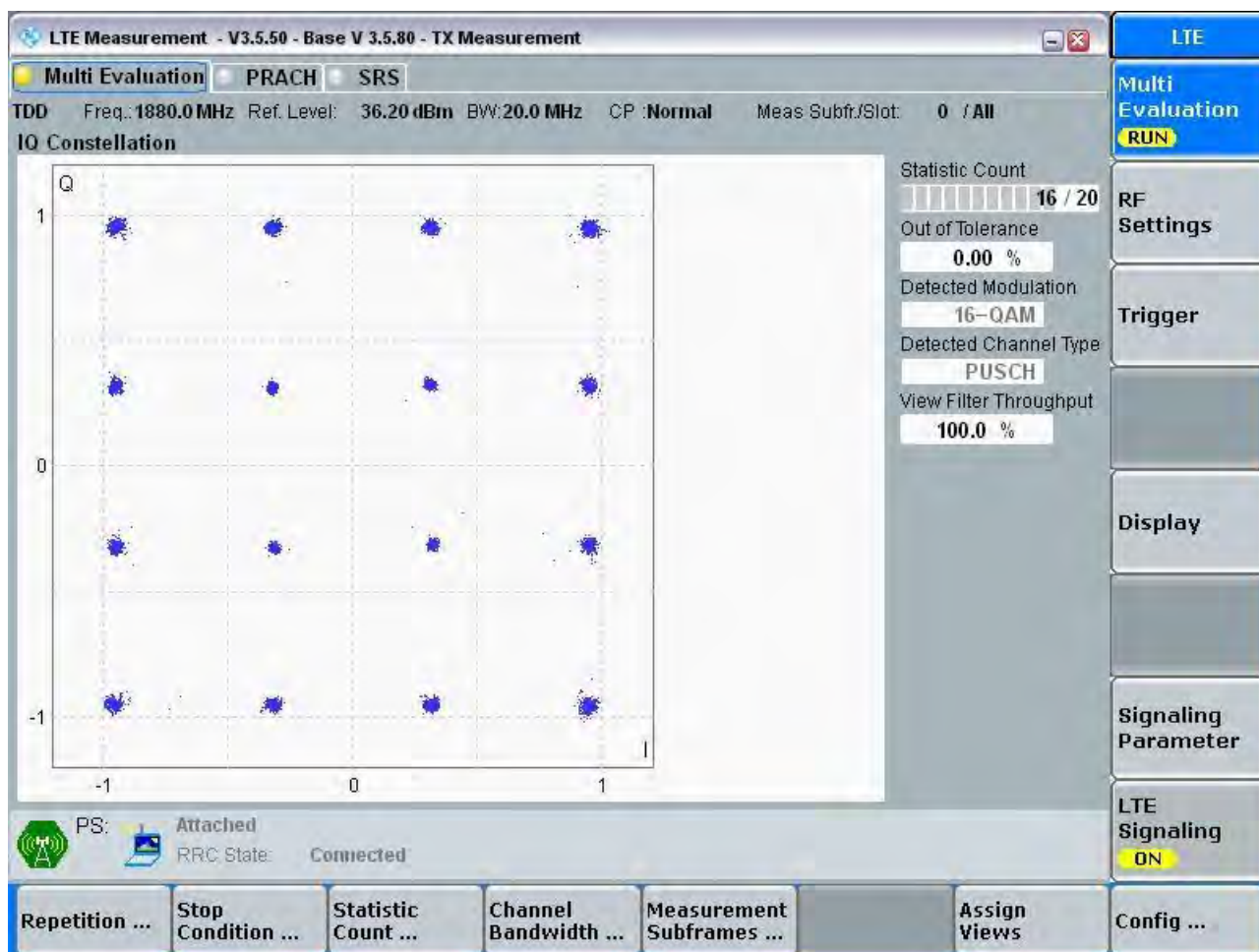


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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. 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
Band2	1.4MHz	QPSK	18607	6RB#0	1.091	1.311	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.094	1.308	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.094	1.311	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.094	1.290	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.094	1.302	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.091	1.302	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.697	3.012	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	3.006	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.697	3.018	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.964	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.976	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.685	2.976	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.476	4.920	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.466	4.920	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.930	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.486	4.980	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.496	4.980	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.486	4.980	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.911	9.720	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.931	9.780	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.911	9.820	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.911	9.760	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.911	9.760	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.931	9.760	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.427	14.790	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.427	14.790	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.427	14.820	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.427	14.730	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.427	14.820	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.427	14.820	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.822	19.320	PASS



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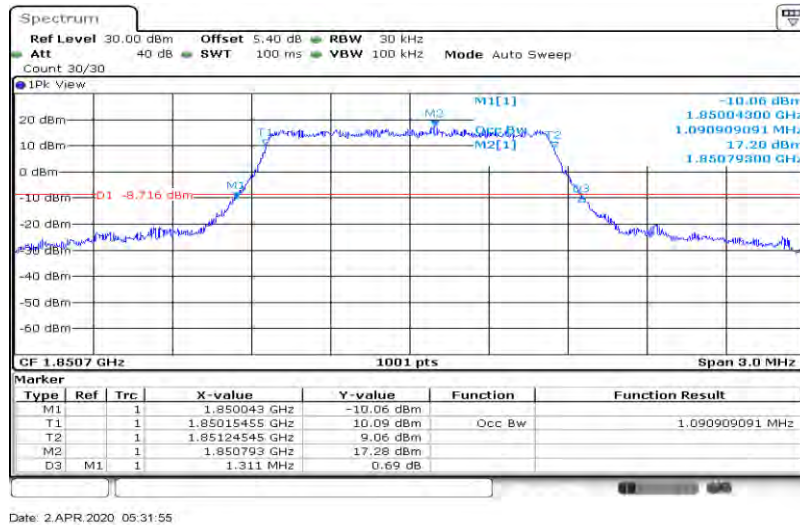
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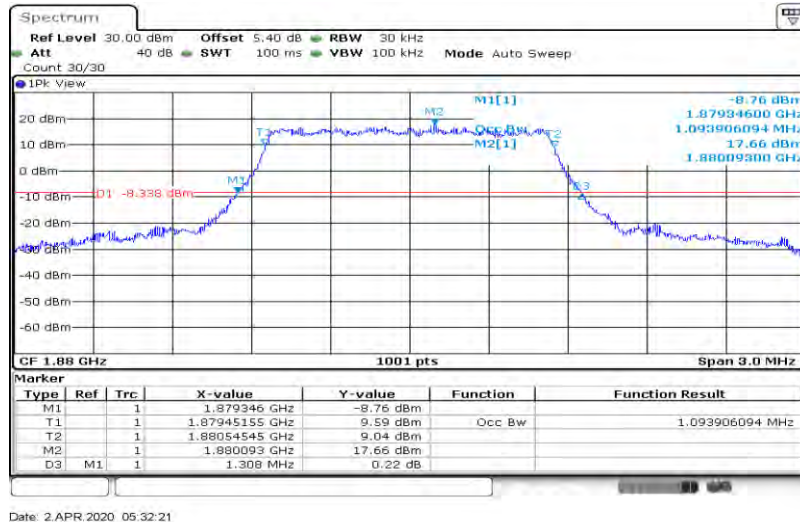
Band2	20MHz	QPSK	18900	100RB#0	17.822	19.400	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.822	19.440	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.822	19.360	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.862	19.320	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.862	19.360	PASS

4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.091



Band2-1.4MHz-QPSK-18900-6RB#0-1.094

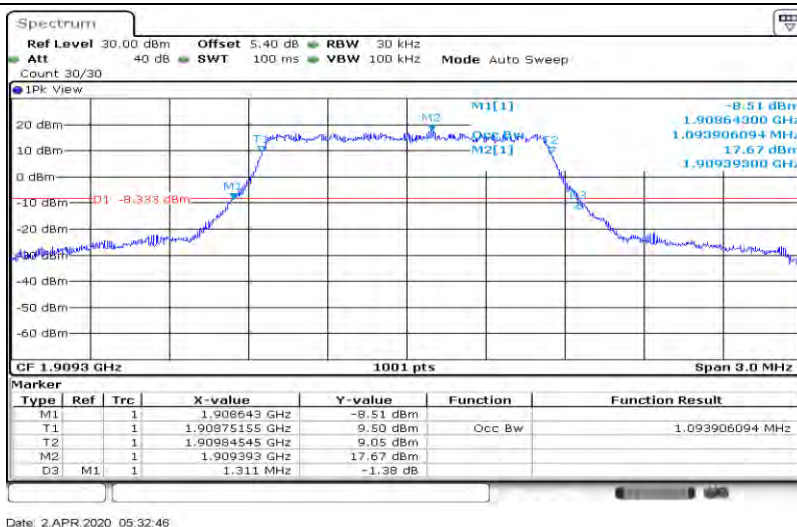


Band2-1.4MHz-QPSK-19193-6RB#0-1.094

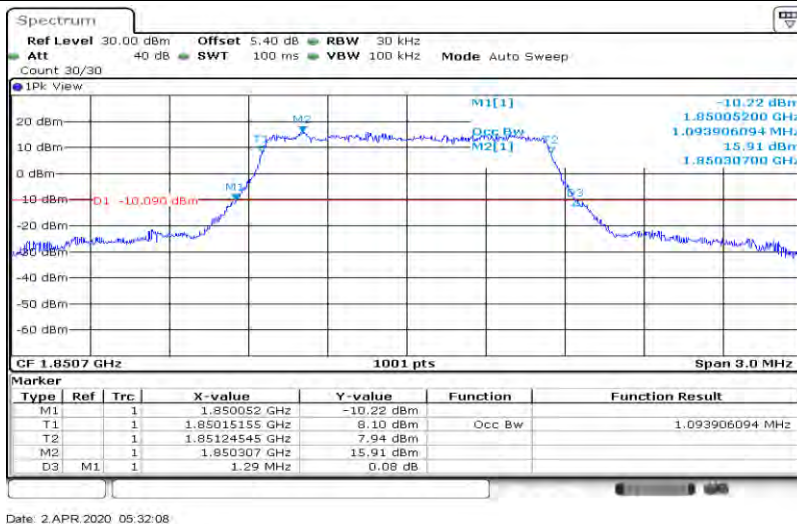


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Band2-1.4MHz-16QAM-18607-6RB#0-1.094

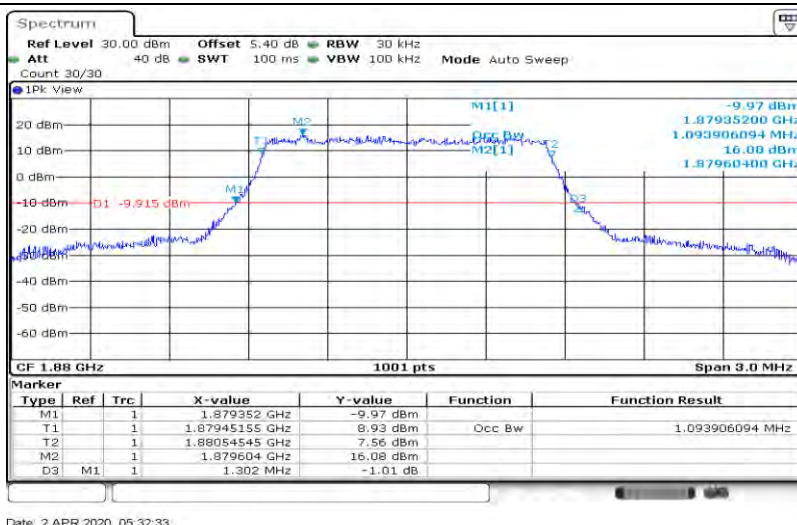


Band2-1.4MHz-16QAM-18900-6RB#0-1.094

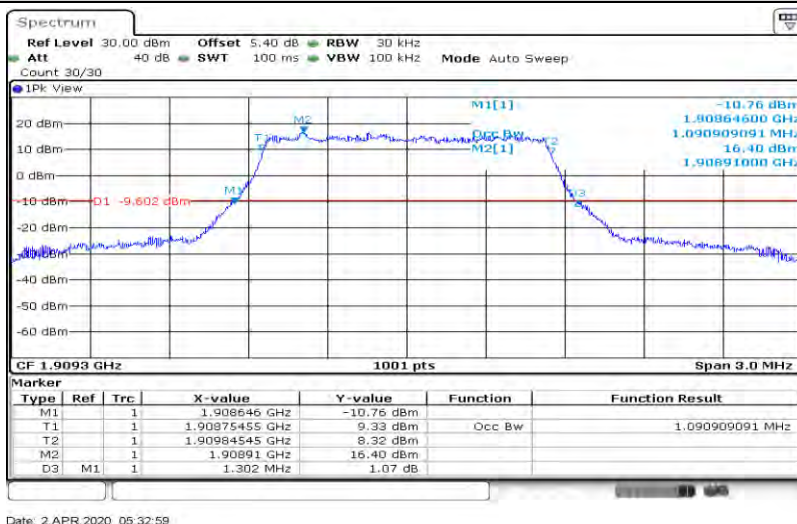


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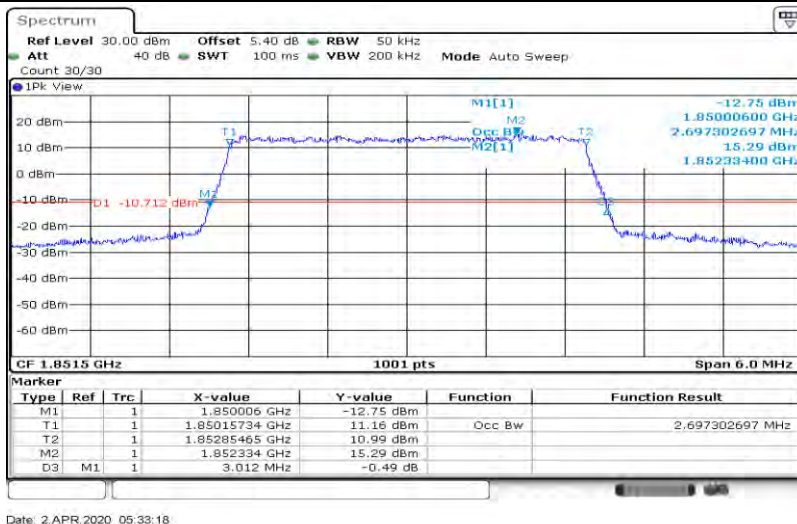


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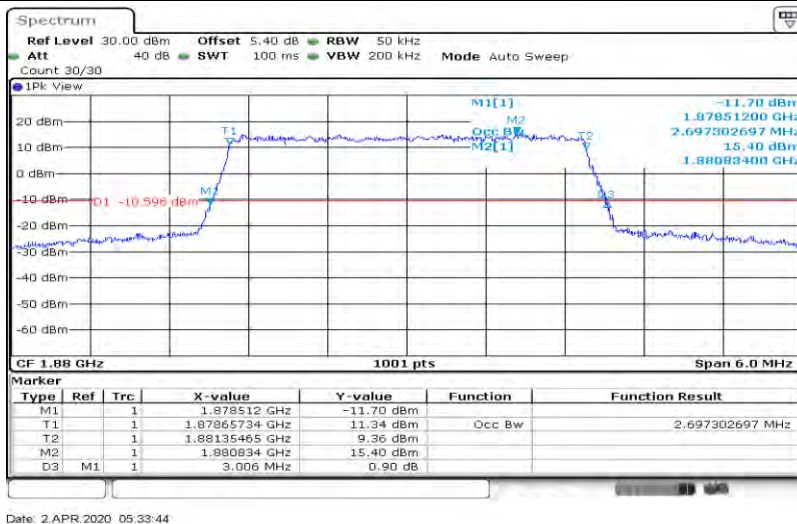


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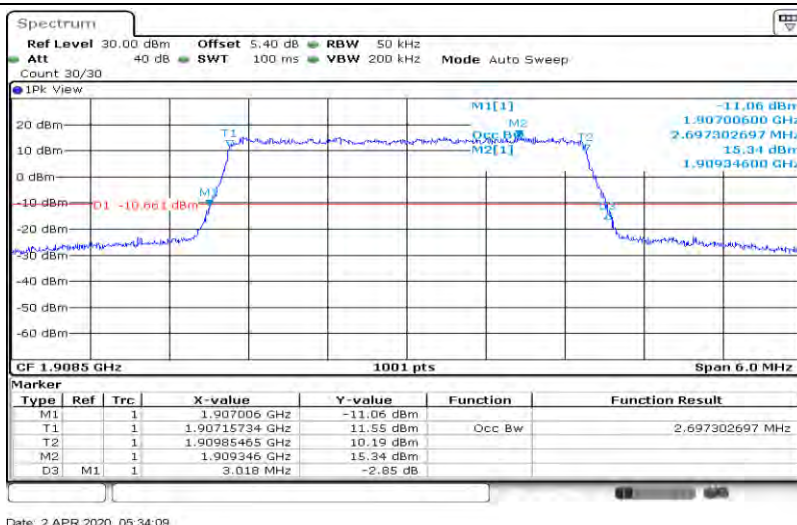


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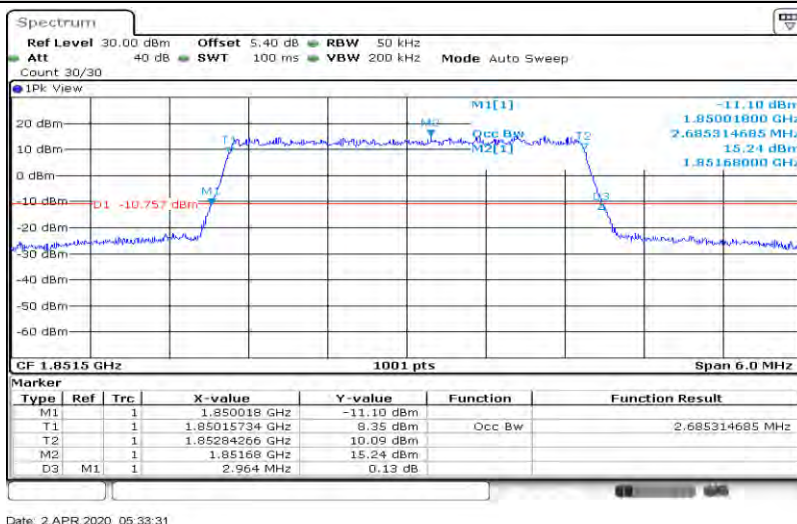


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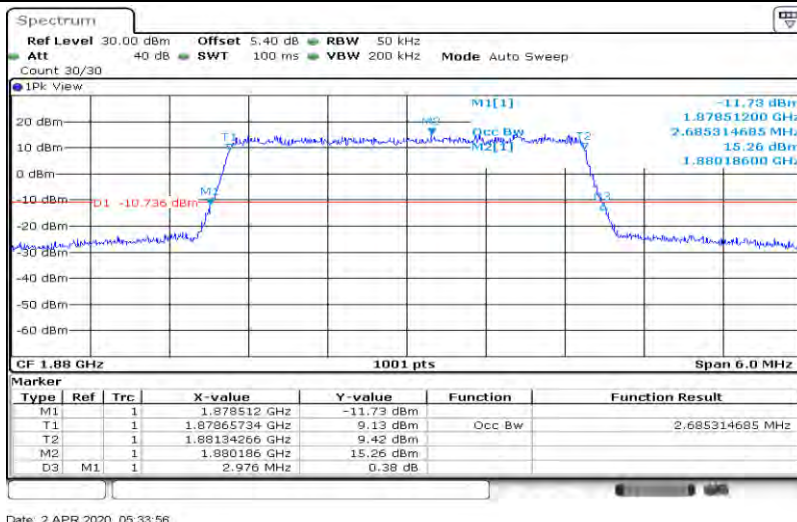


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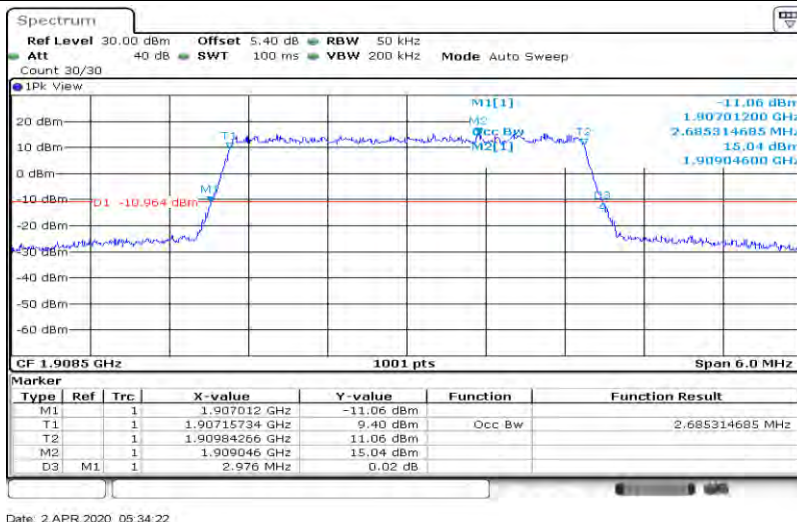


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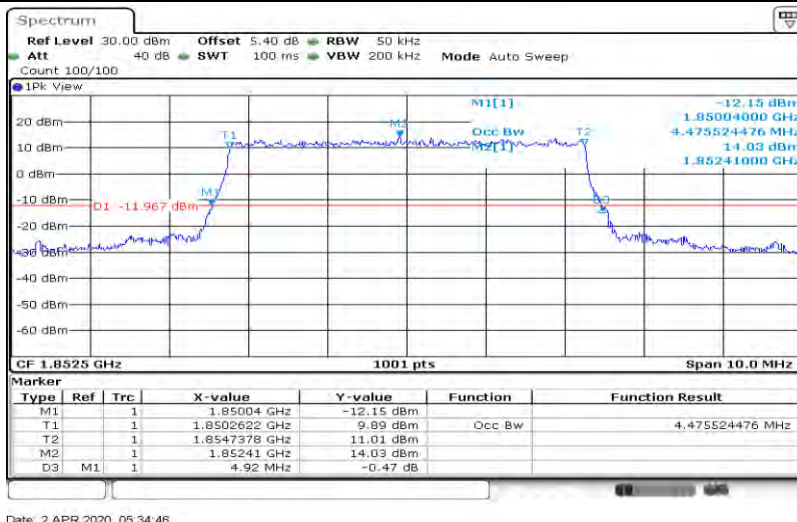


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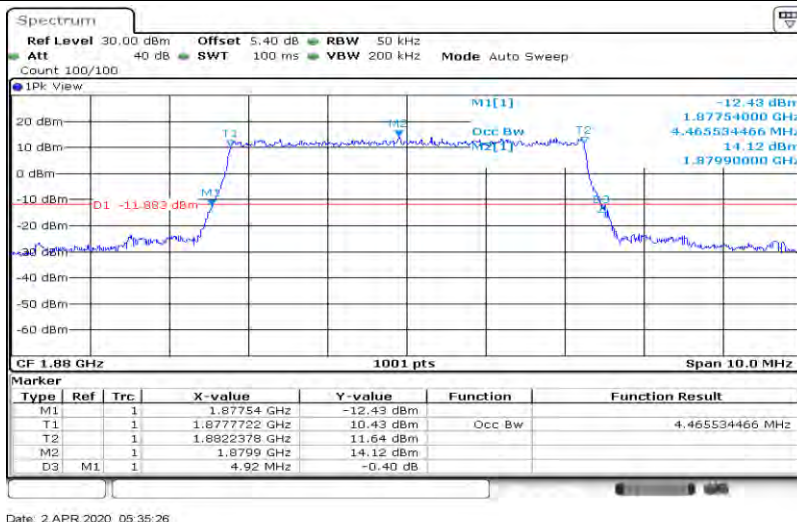


Band2-5MHz-QPSK-18625-25RB#0-4.476





Band2-5MHz-QPSK-18900-25RB#0-4.466

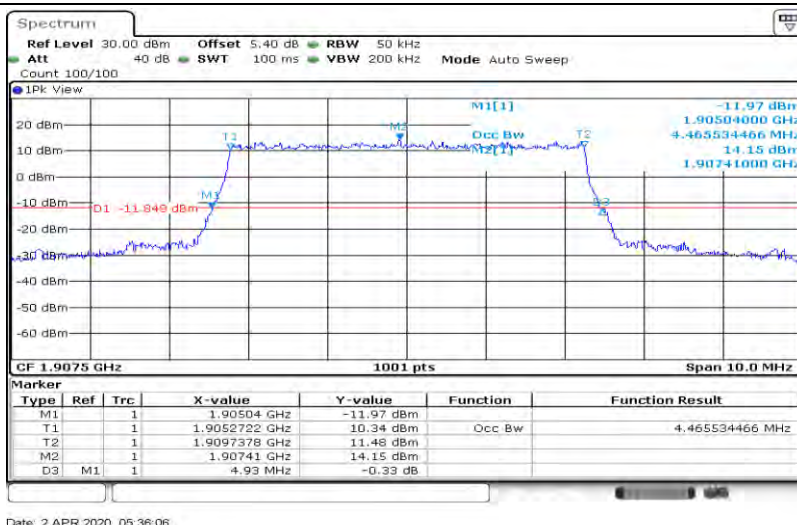


Band2-5MHz-QPSK-19175-25RB#0-4.466

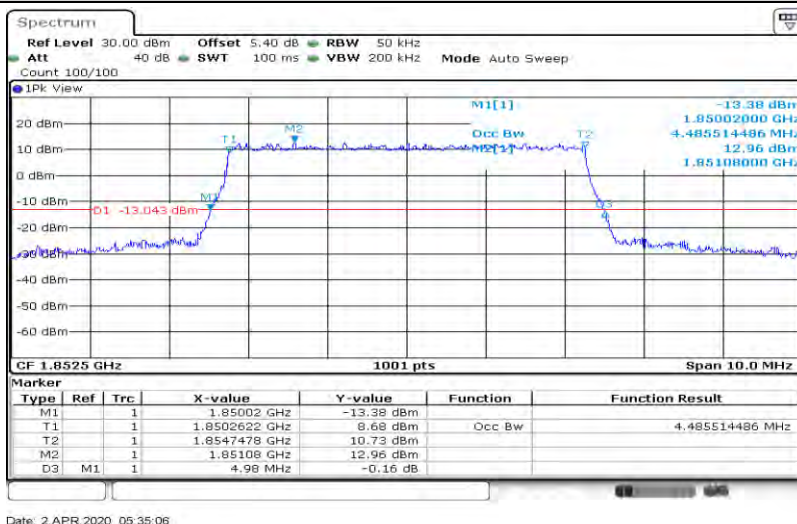


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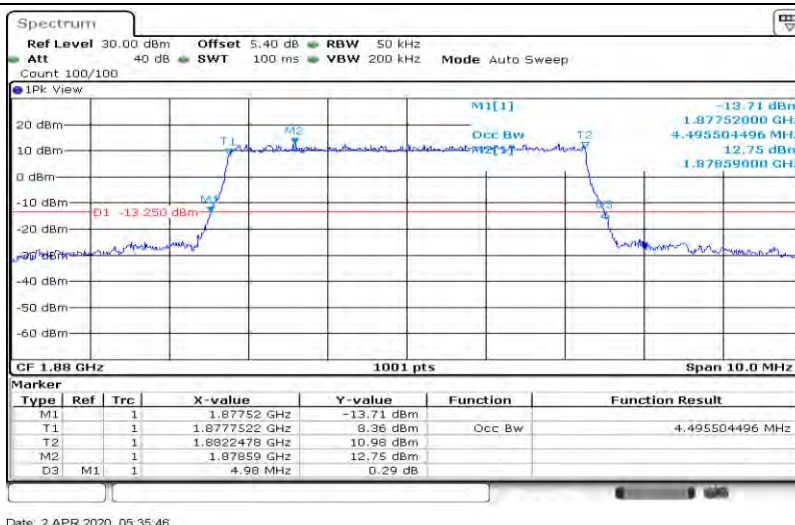


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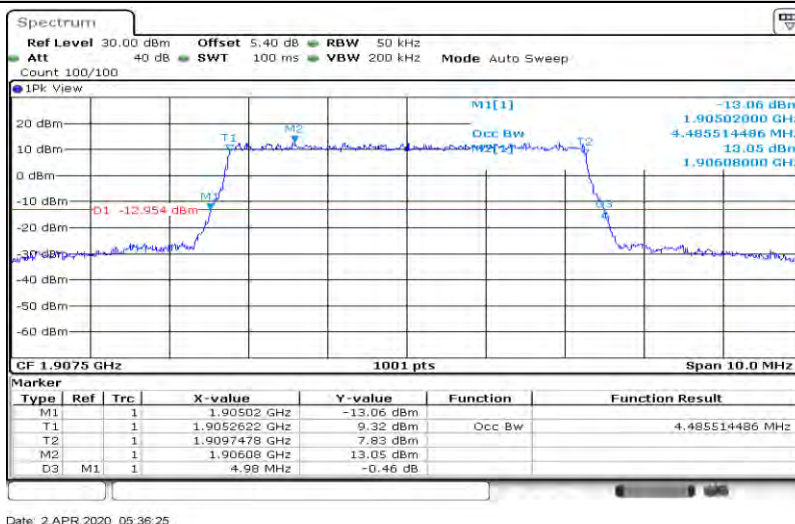


Band2-5MHz-16QAM-18900-25RB#0-4.496





Band2-5MHz-16QAM-19175-25RB#0-4.486



Band2-10MHz-QPSK-18650-50RB#0-8.911



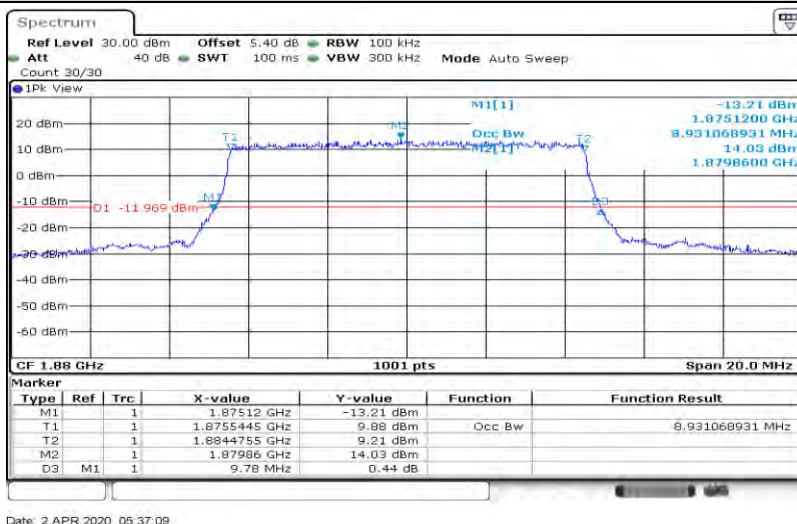
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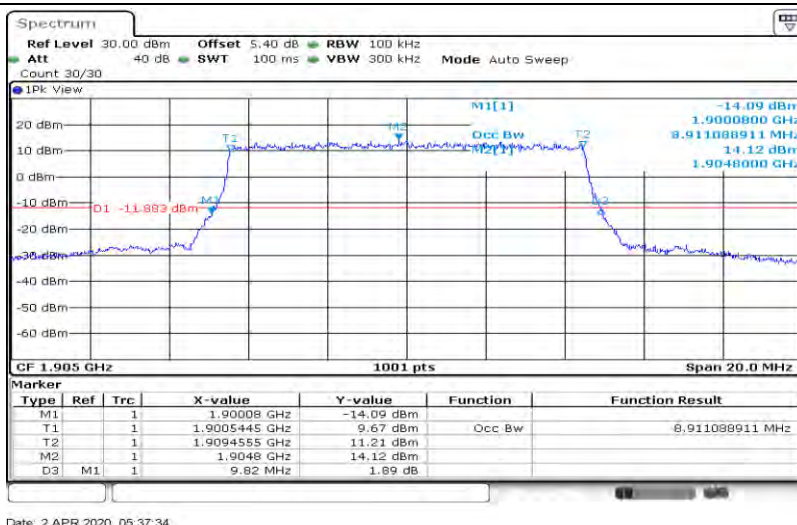


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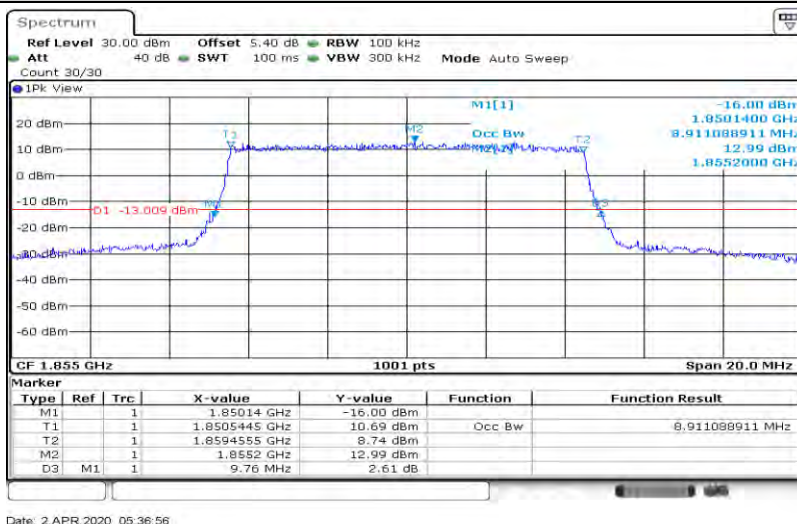


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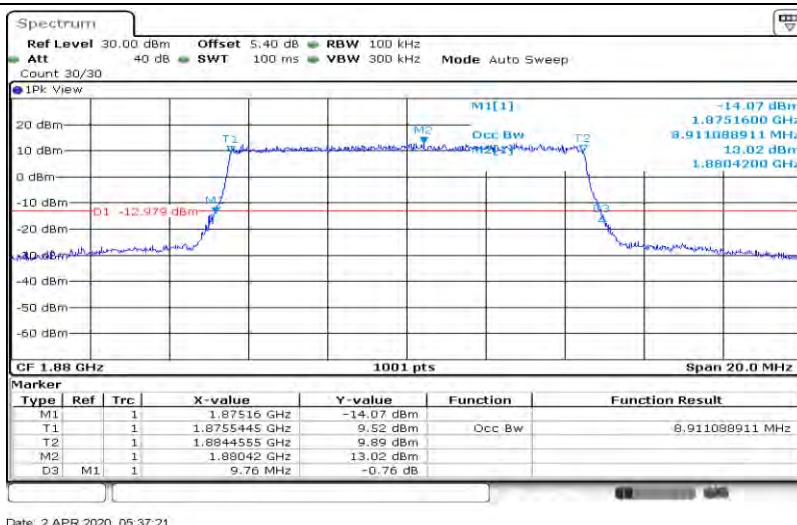


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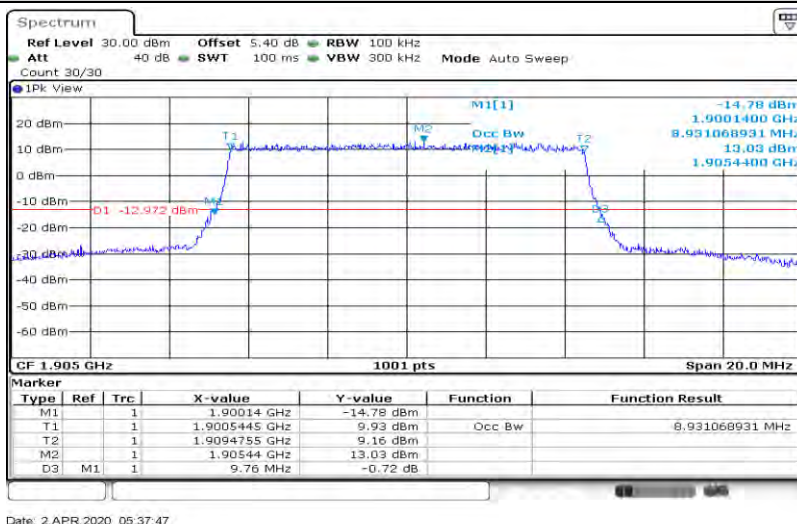


Band2-10MHz-16QAM-18900-50RB#0-8.911





Band2-10MHz-16QAM-19150-50RB#0-8.931

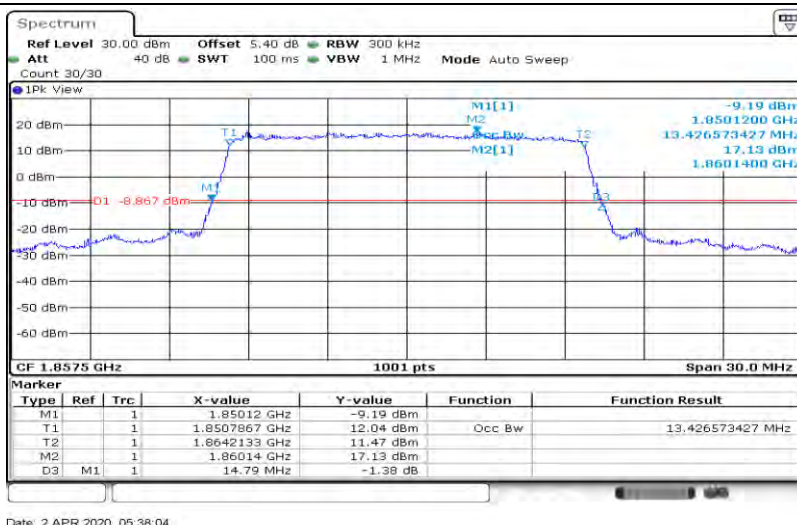


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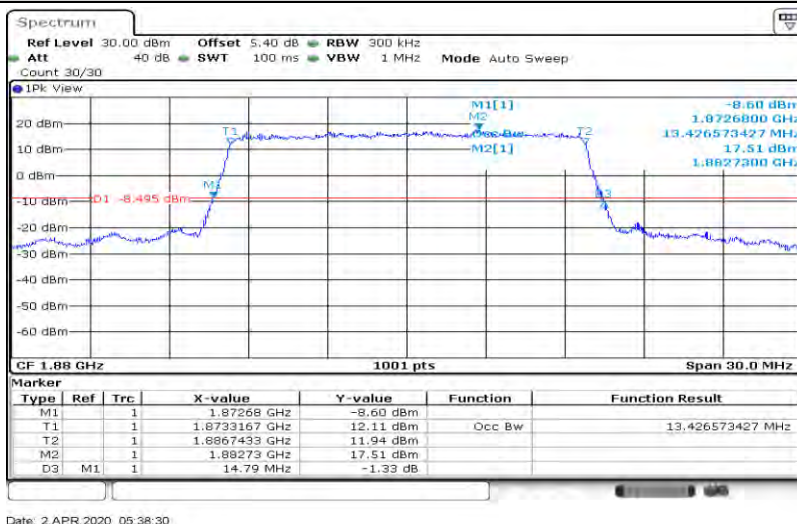


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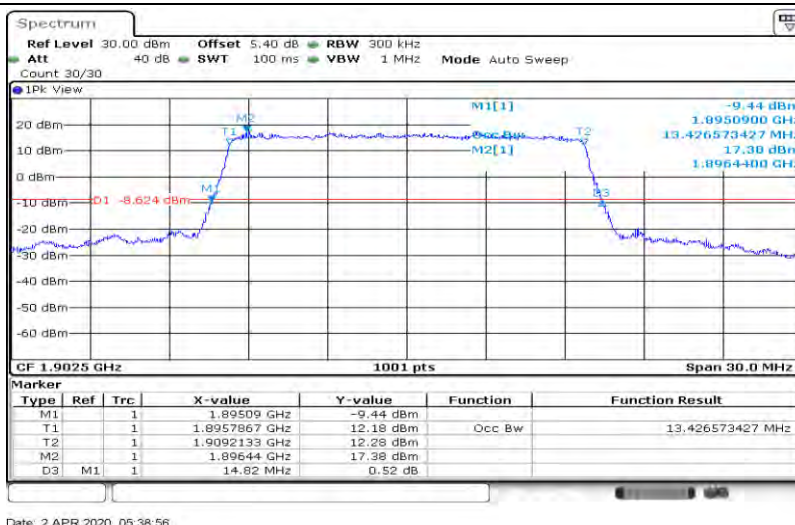


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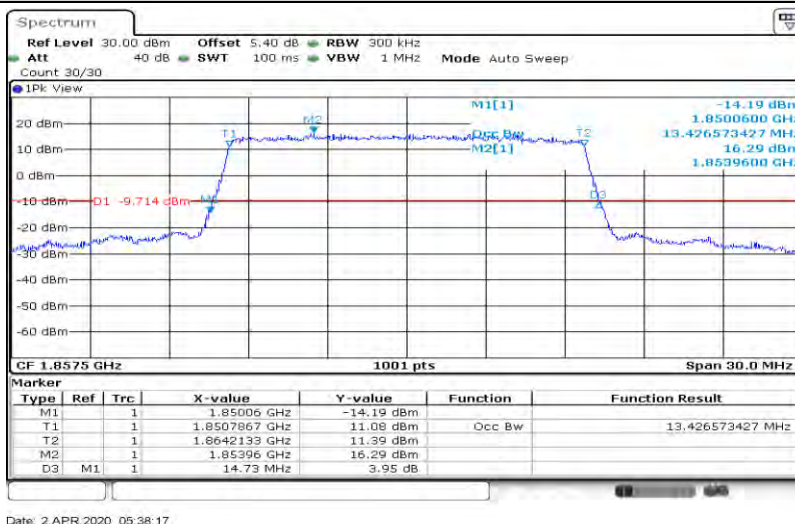


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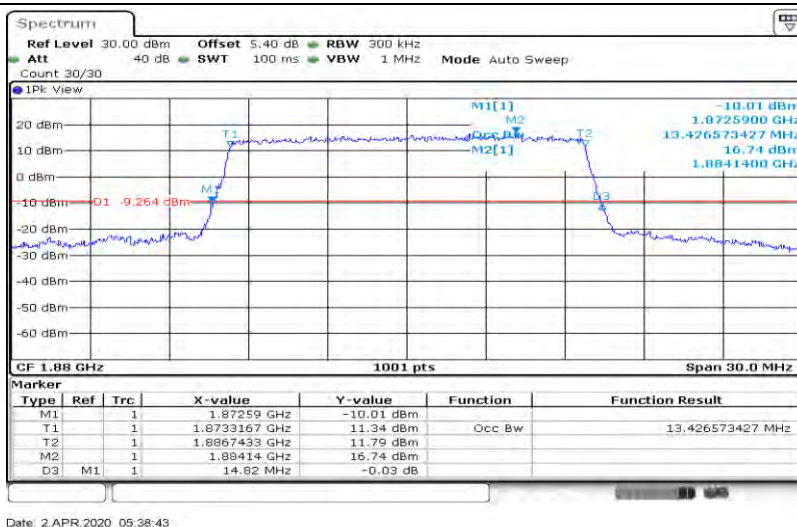


Band2-15MHz-16QAM-18675-75RB#0-13.427

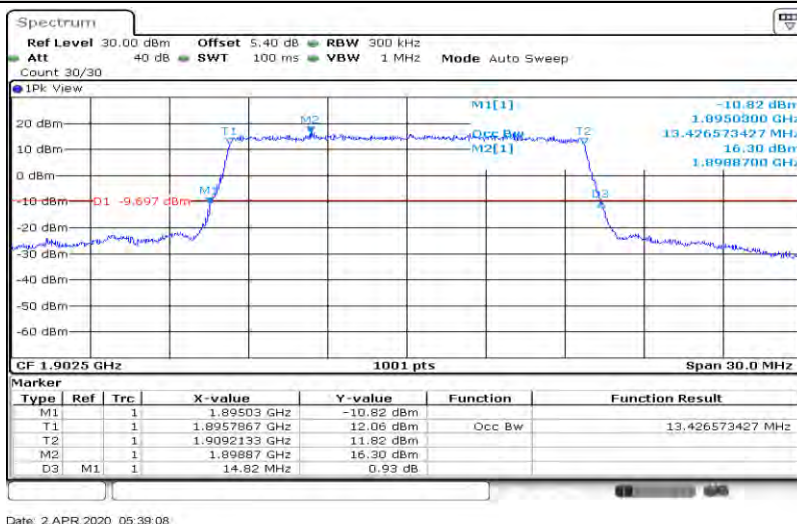


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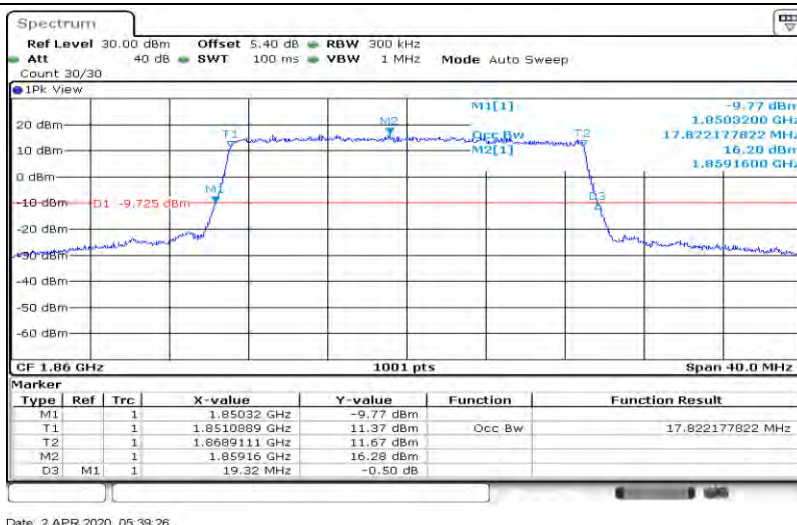


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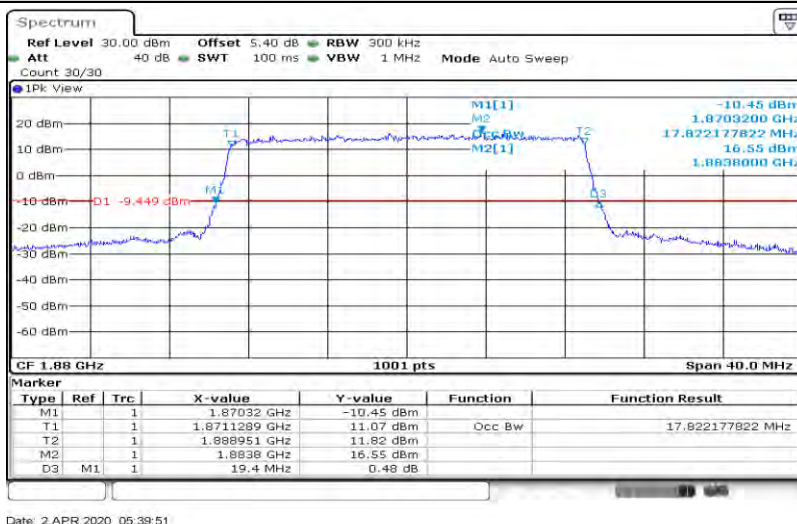


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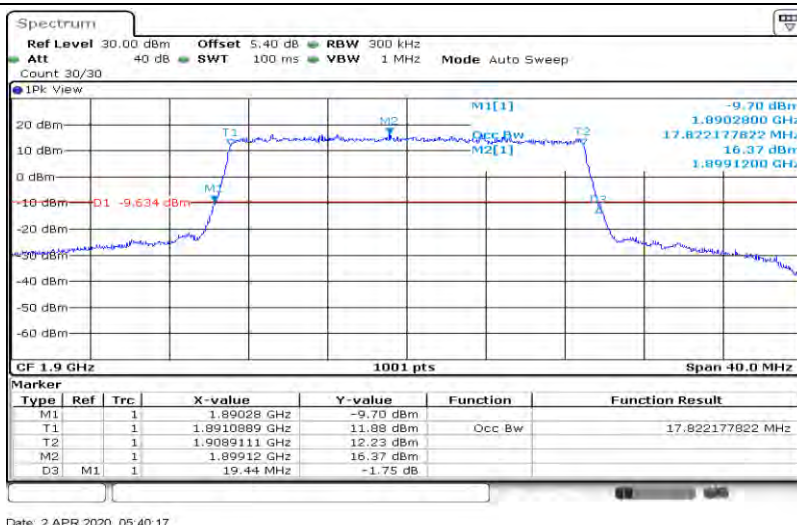


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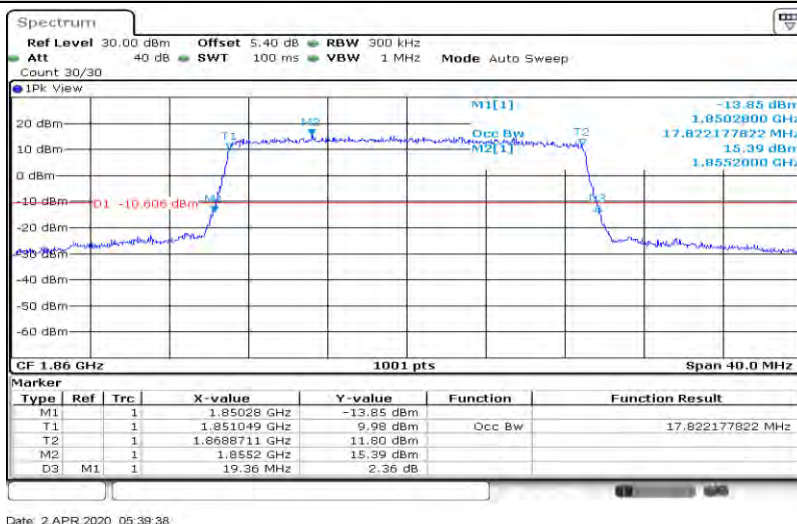


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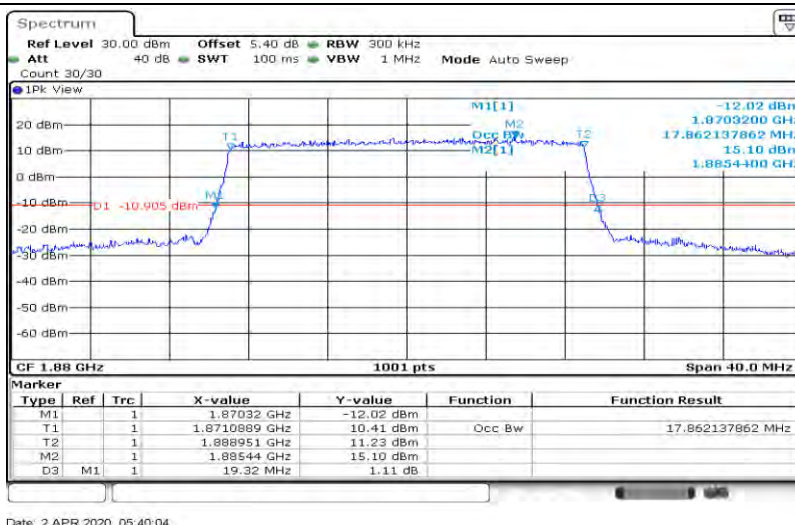


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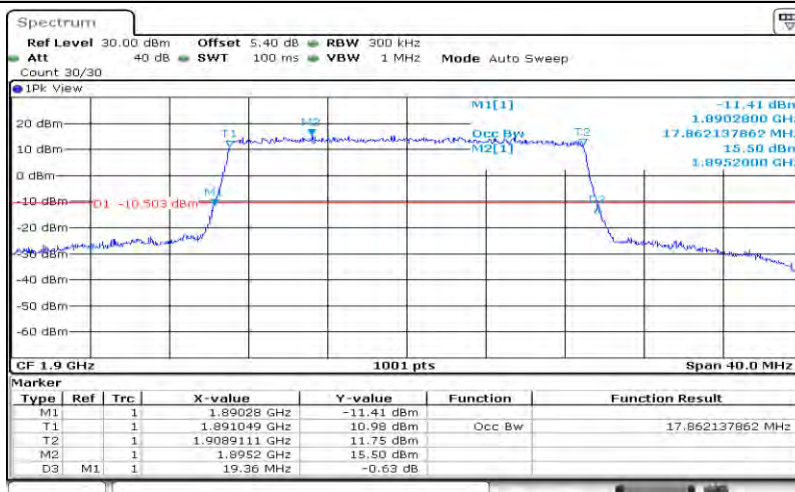
Band2-20MHz-16QAM-18900-100RB#0-17.862





Date: 2 APR 2020 05:40:04

Band2-20MHz-16QAM-19100-100RB#0-17.862



Date: 2 APR 2020 05:40:30



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5. Band Edge Compliance

5.1. Test Plots

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5



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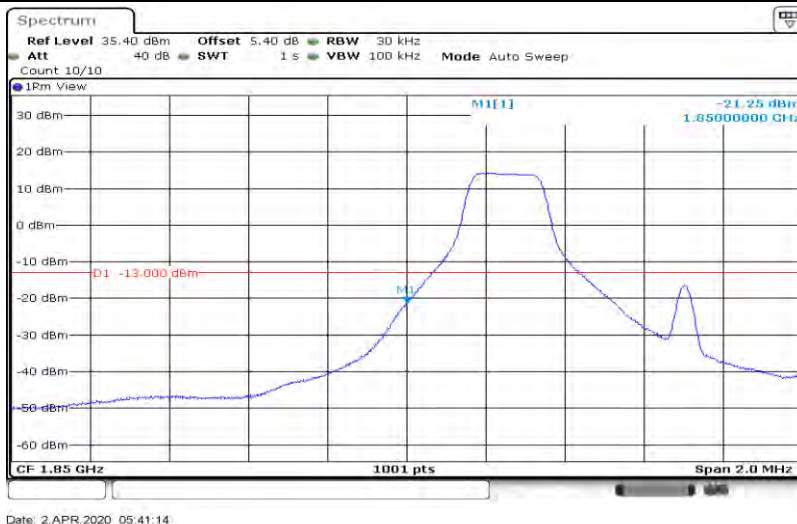


Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-1RB#0





Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-19193-1RB#5





Band2-1.4MHz-16QAM-19193-6RB#0



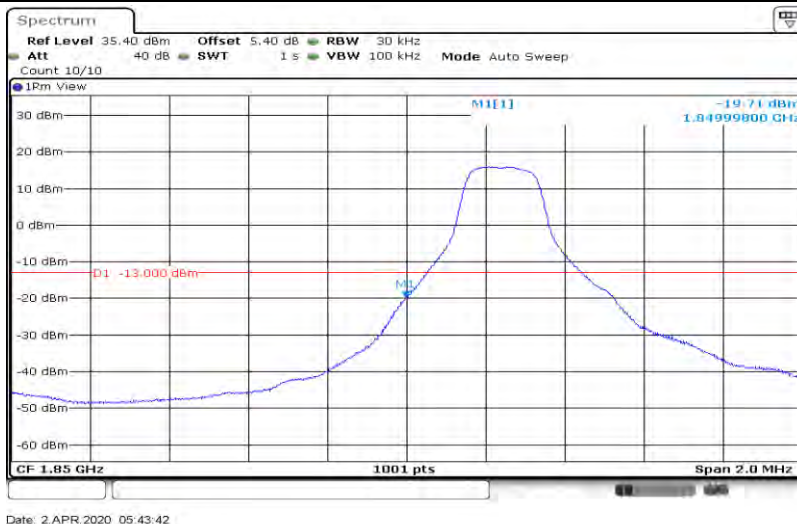
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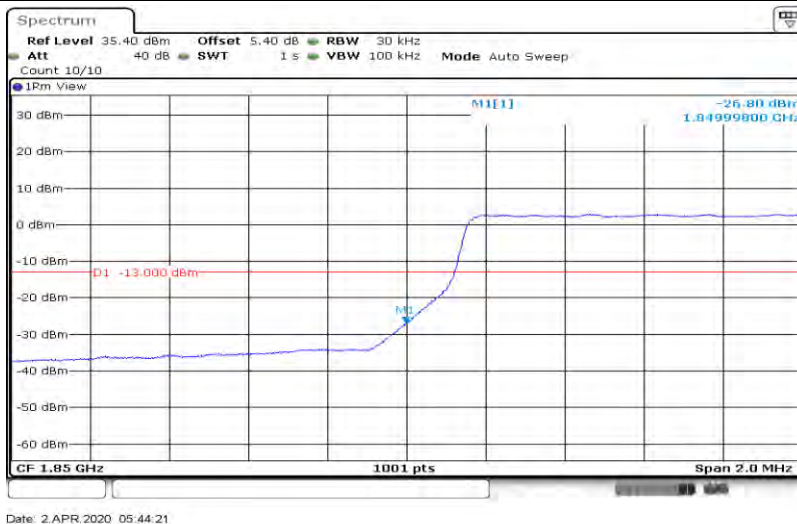
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Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-19185-1RB#14



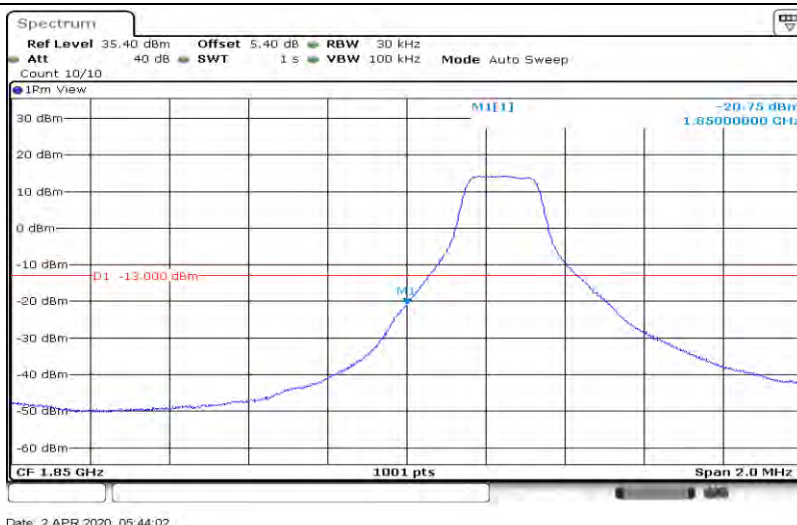


Band2-3MHz-QPSK-19185-15RB#0



Band2-3MHz-16QAM-18615-1RB#0





Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-1RB#14





Band2-3MHz-16QAM-19185-15RB#0



Band2-5MHz-QPSK-18625-1RB#0





Band2-5MHz-QPSK-18625-25RB#0

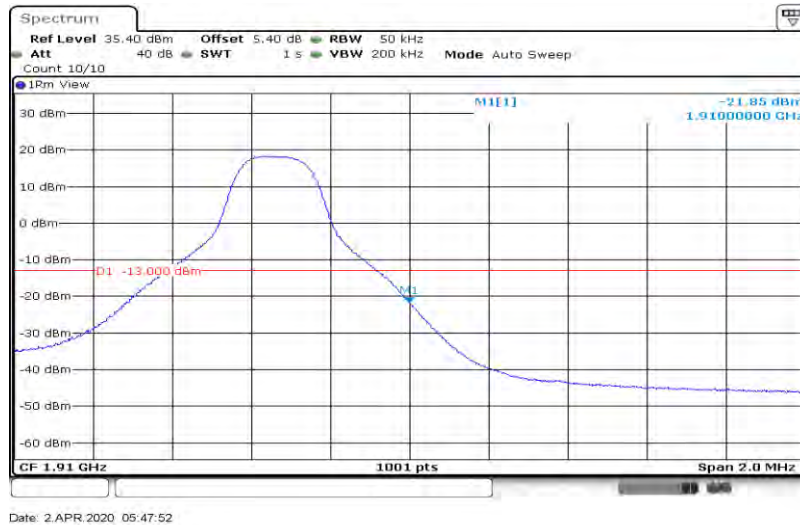


Band2-5MHz-QPSK-19175-1RB#24



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Band2-5MHz-QPSK-19175-25RB#0



Band2-5MHz-16QAM-18625-1RB#0



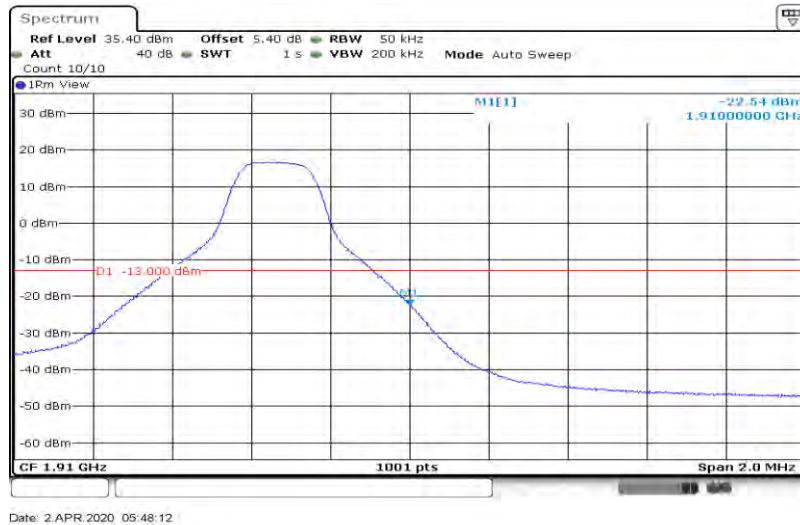


Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-19175-1RB#24





Band2-5MHz-16QAM-19175-25RB#0



Band2-10MHz-QPSK-18650-1RB#0





Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-19150-1RB#49





Band2-10MHz-QPSK-19150-50RB#0



Band2-10MHz-16QAM-18650-1RB#0





Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-19150-1RB#49





Band2-10MHz-16QAM-19150-50RB#0



Band2-15MHz-QPSK-18675-1RB#0





Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-19125-1RB#74





Date: 2 APR 2020 05:53:26

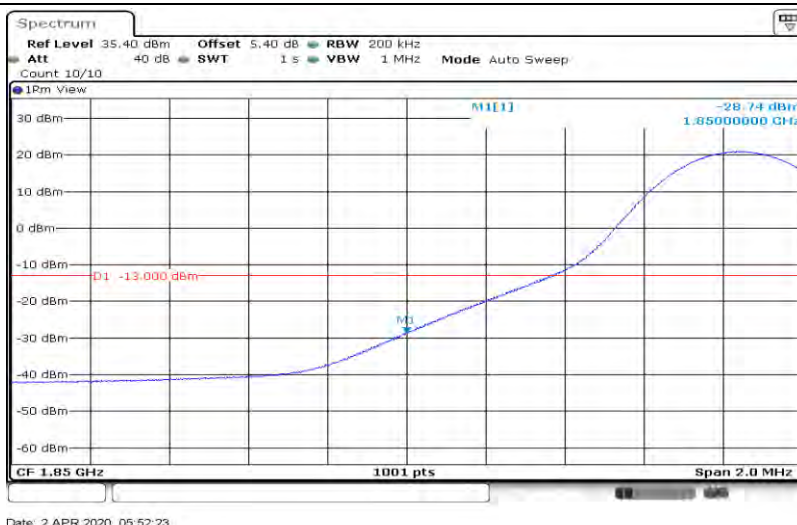
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Date: 2 APR 2020 05:54:06

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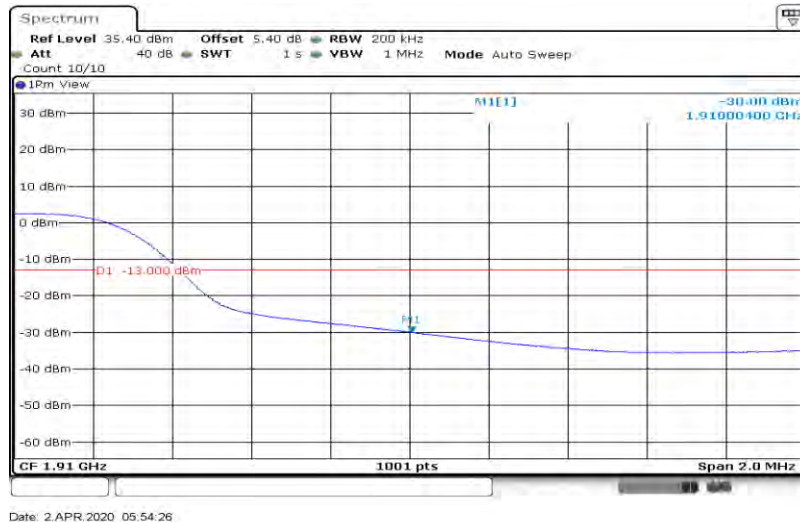


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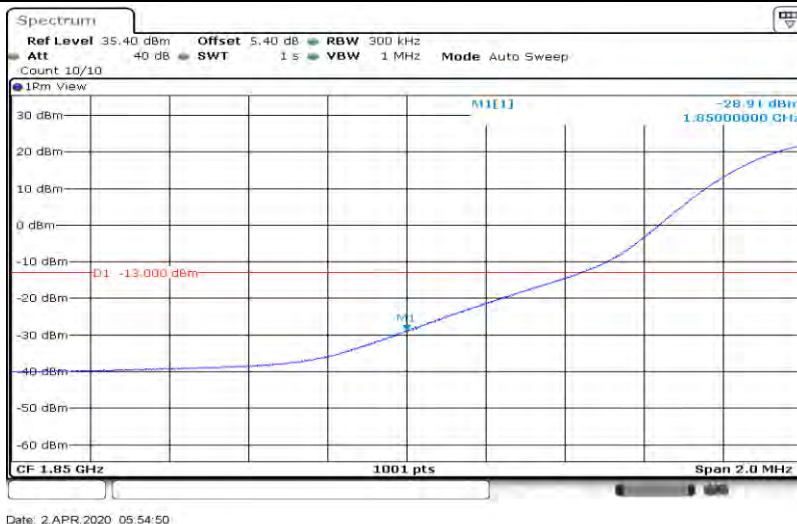


Band2-15MHz-16QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-1RB#0





Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-19100-1RB#99



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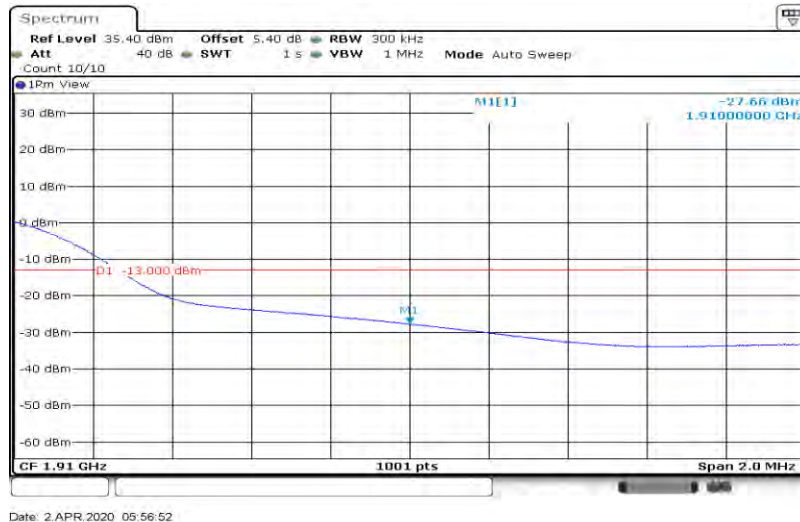
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Band2-20MHz-QPSK-19100-100RB#0



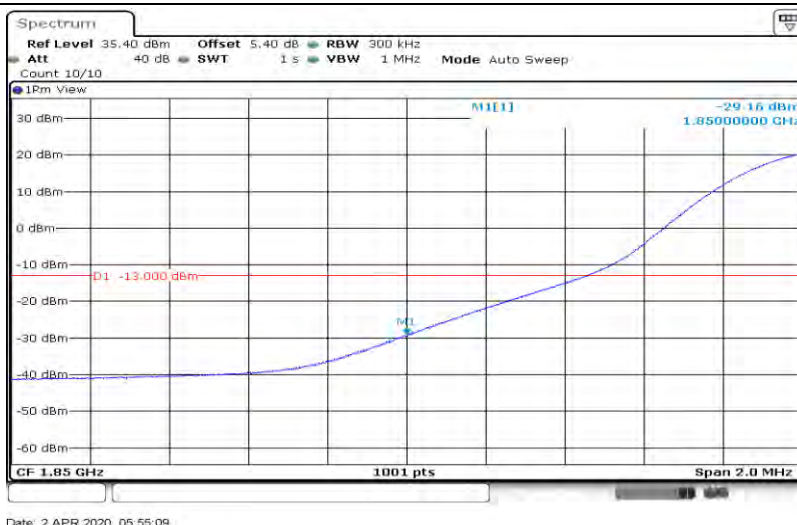
Band2-20MHz-16QAM-18700-1RB#0



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Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-19100-1RB#99





Band2-20MHz-16QAM-19100-100RB#0



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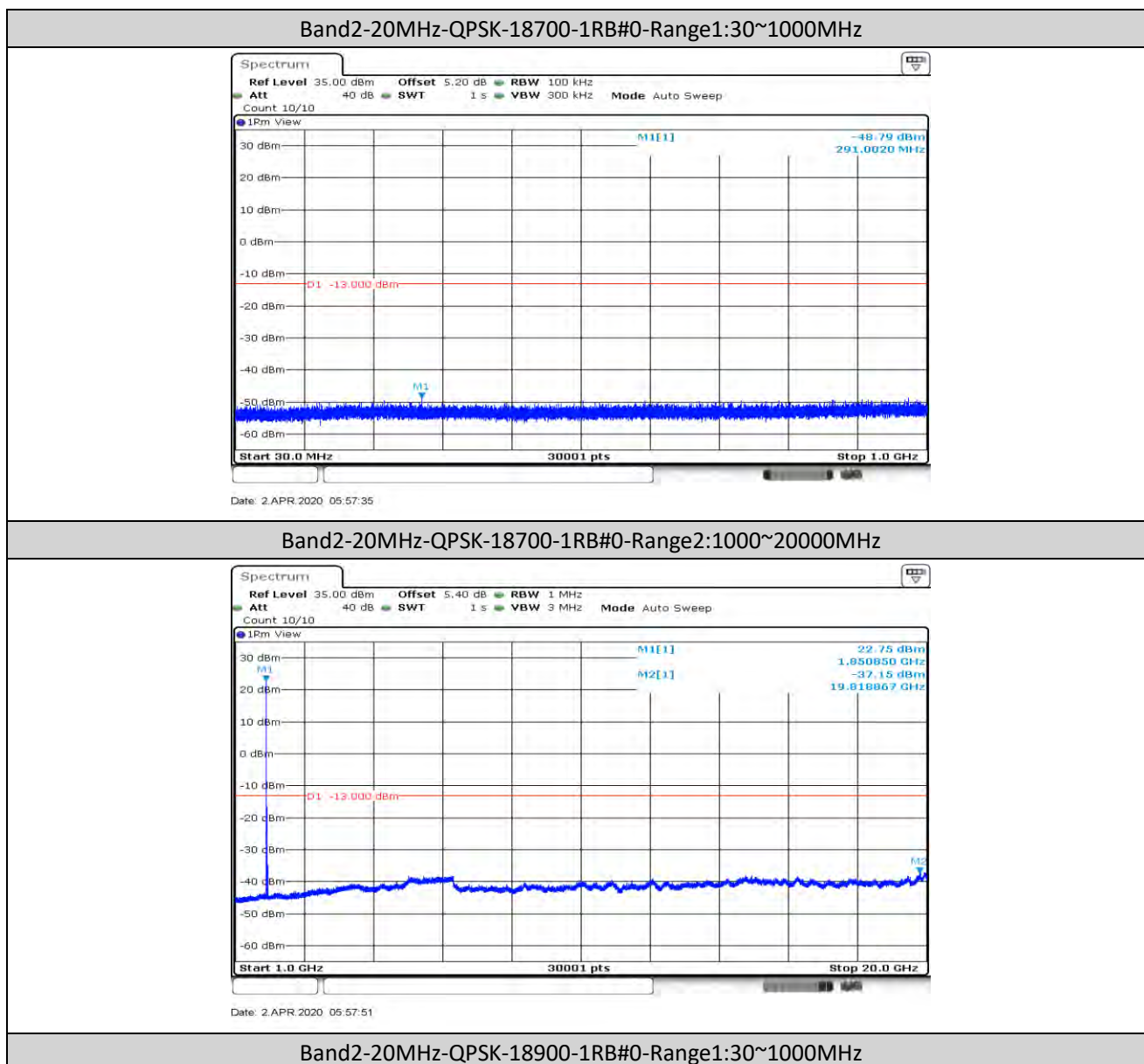


6. Spurious Emission at Antenna Terminal

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.

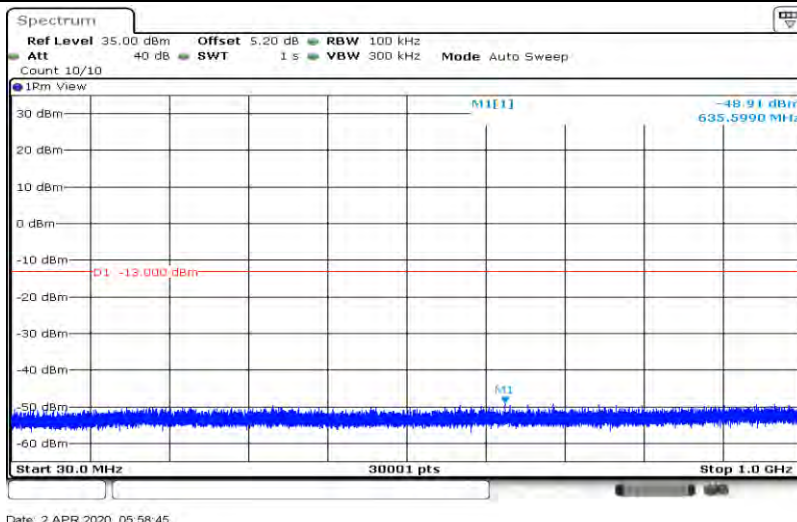
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

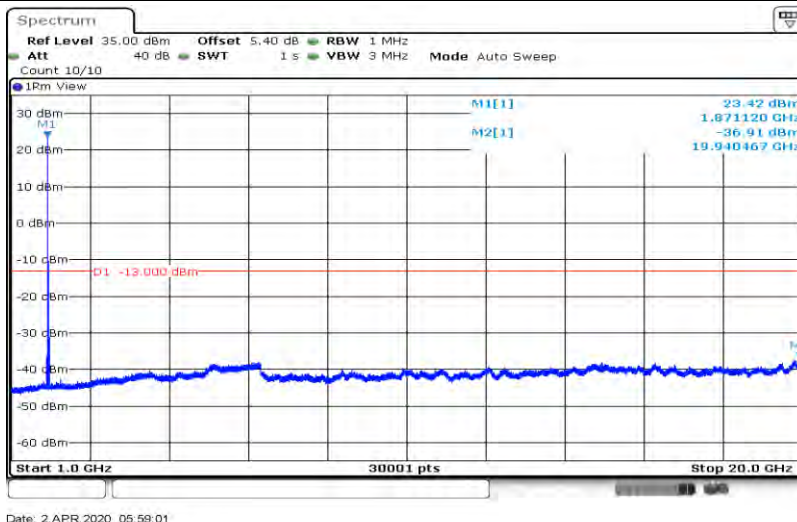


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Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



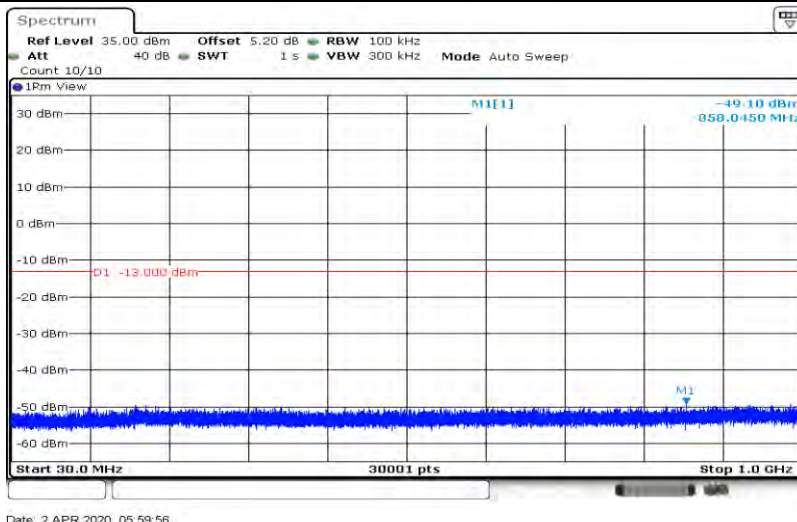
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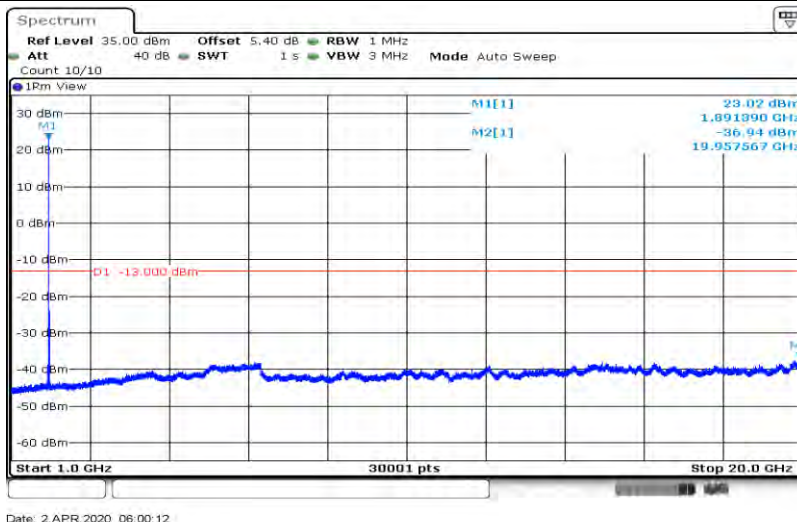
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Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



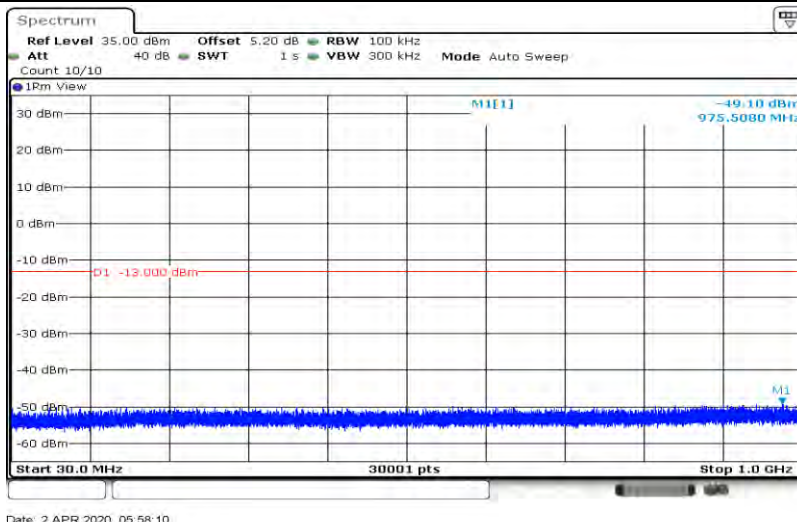
Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



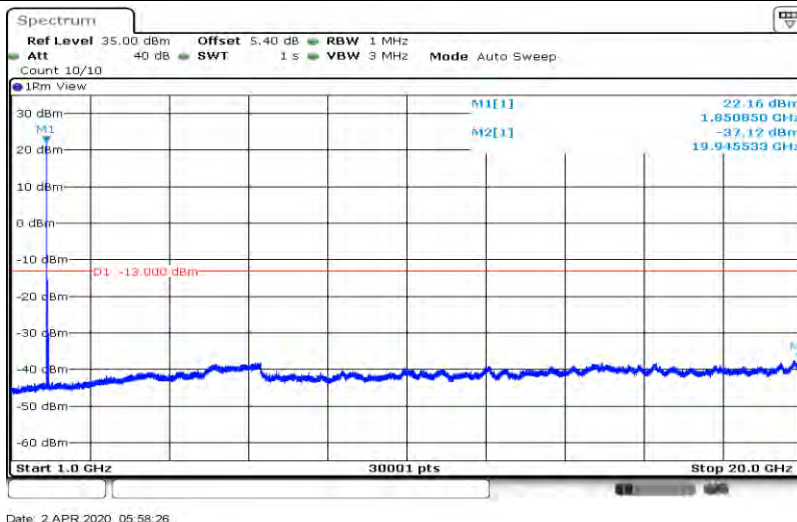
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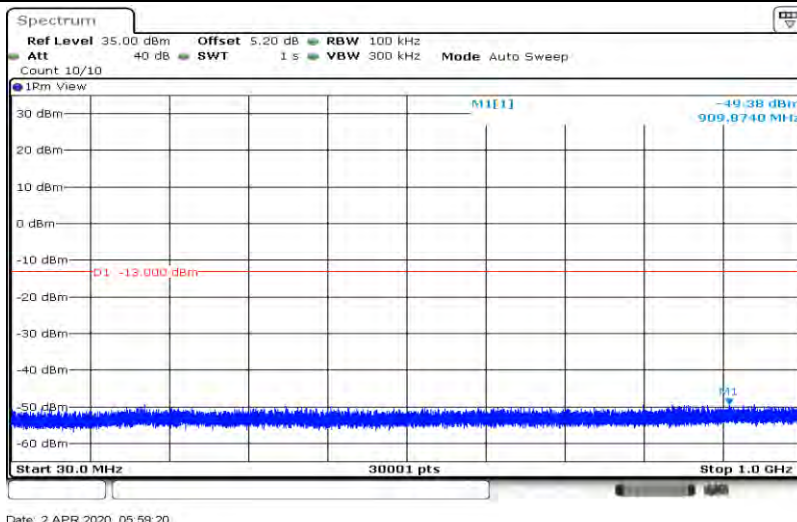


Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz

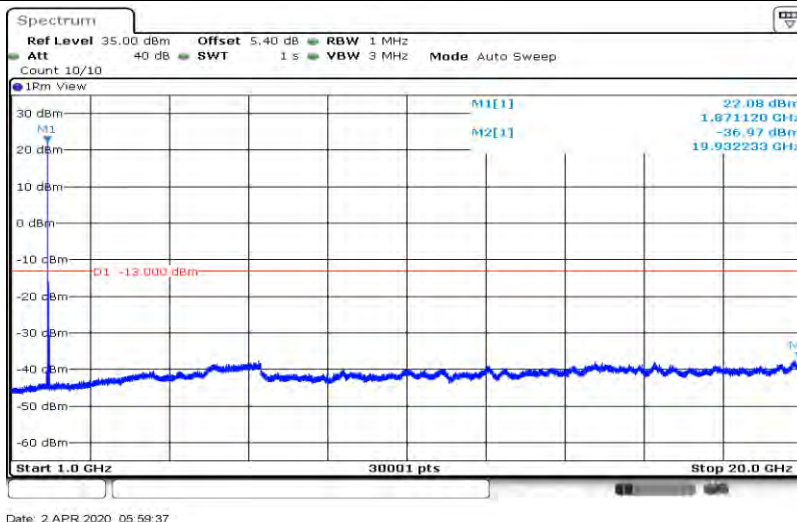


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



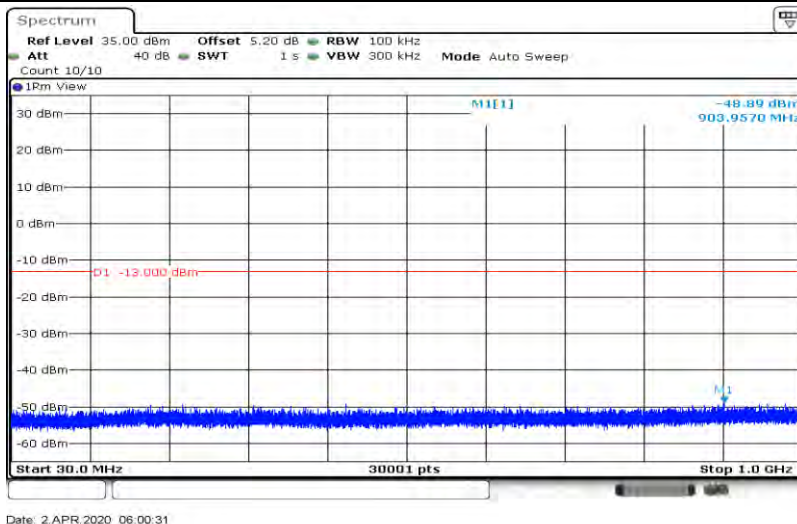


Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz

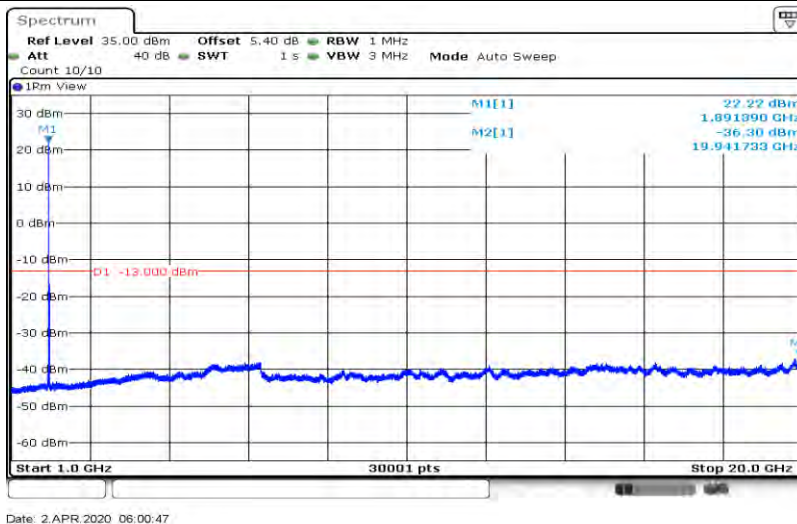


Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz





Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz





7. Field Strength of Spurious Radiation

7.1. Test Band = LTE-20M_Band=2 _TM1

7.1.1. Test Channel = 19100

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.9202	-71.56	-64.60	-13.00	51.60	174	354	Horizontal
2	637.5414	-71.39	-63.58	-13.00	50.58	195	185	Horizontal
3	2700.3401	-69.11	-36.19	-13.00	23.19	178	225	Horizontal
4	3782.5261	-43.08	-51.41	-13.00	38.41	247	354	Horizontal
5	5673.0891	-39.92	-45.91	-13.00	32.91	185	354	Horizontal
6	16399.4466	-56.66	-42.22	-13.00	29.22	196	319	Horizontal



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7.2. Test Band = LTE-20M_Band=2 _TM1

7.2.1. Test Channel = 19100

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.5308	-63.57	-65.03	-13.00	52.03	271	187	Vertical
2	516.6733	-71.19	-66.39	-13.00	53.39	285	49	Vertical
3	2694.7389	-68.96	-37.39	-13.00	24.39	269	180	Vertical
4	3782.0261	-39.90	-48.84	-13.00	35.84	274	266	Vertical
5	5673.0891	-43.40	-50.01	-13.00	37.01	258	49	Vertical
6	17999.0000	-56.16	-38.31	-13.00	25.31	269	266	Vertical



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7.3. Test Band = LTE-20M_Band=2 _TM1
7.3.1. Test Channel = 18700

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.7190	-71.48	-64.68	-13.00	51.68	184	224	Horizontal
2	507.1669	-70.63	-65.21	-13.00	52.21	185	281	Horizontal
3	2703.1406	-69.06	-36.23	-13.00	23.23	274	259	Horizontal
4	3702.0234	-45.31	-53.87	-13.00	40.87	256	255	Horizontal
5	5553.0851	-42.16	-48.30	-13.00	35.30	241	243	Horizontal
6	16399.9467	-56.84	-42.39	-13.00	29.39	269	346	Horizontal



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7.4. Test Band = LTE-20M_Band=2 _TM1

7.4.1. Test Channel = 18700

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	105.7123	-71.22	-65.81	-13.00	52.81	241	317	Vertical
2	604.8992	-72.02	-64.40	-13.00	51.40	285	74	Vertical
3	2710.7421	-68.89	-37.37	-13.00	24.37	263	288	Vertical
4	3702.0234	-41.68	-51.04	-13.00	38.04	284	211	Vertical
5	5553.5851	-43.79	-50.35	-13.00	37.35	271	211	Vertical
6	17999.5000	-56.33	-38.46	-13.00	25.46	225	349	Vertical



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7.5. Test Band = LTE_Band=2 _TM1

7.5.1. Test Channel = 18900

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.2783	-71.35	-64.49	-13.00	51.49	178	360	Horizontal
2	580.3085	-71.24	-64.09	-13.00	51.09	165	41	Horizontal
3	2702.3405	-69.11	-36.26	-13.00	23.26	184	124	Horizontal
4	3742.0247	-40.66	-49.11	-13.00	36.11	178	334	Horizontal
5	5613.0871	-41.72	-47.79	-13.00	34.79	196	360	Horizontal
6	16387.9463	-56.45	-42.22	-13.00	29.22	185	253	Horizontal



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7.6. Test Band = LTE_Band=2 _TM1

7.6.1. Test Channel = 18900

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.9805	-71.80	-65.39	-13.00	52.39	271	332	Vertical
2	607.6154	-71.55	-63.94	-13.00	50.94	259	114	Vertical
3	2701.1402	-69.12	-37.47	-13.00	24.47	247	248	Vertical
4	3742.0247	-35.59	-44.74	-13.00	31.74	221	225	Vertical
5	5613.0871	-44.02	-50.44	-13.00	37.44	258	298	Vertical
6	17993.9998	-56.38	-38.65	-13.00	25.65	321	40	Vertical

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
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	-0.20	-0.000108	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	0.90	0.000484	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	0.90	0.000484	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-2.10	-0.001117	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-3.20	-0.001702	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.50	-0.002394	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-1.60	-0.000842	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-2.60	-0.001368	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-3.20	-0.001684	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	3.00	0.001613	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	0.90	0.000484	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	1.50	0.000806	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-2.20	-0.001170	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-3.70	-0.001968	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-3.00	-0.001596	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-4.10	-0.002158	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-2.60	-0.001368	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-1.60	-0.000842	±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
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	4.60	0.002473	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	-0.20	-0.000108	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-0.80	-0.000430	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	2.30	0.001237	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	0.80	0.000430	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	1.10	0.000591	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	1.90	0.001022	±2.5	PASS



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Band2	20MHz	QPSK	18700	100RB#0	NV	50	3.40	0.001828	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-4.30	-0.002287	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.90	-0.001011	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-3.80	-0.002021	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.30	-0.002287	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-4.10	-0.002181	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-2.10	-0.001117	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.00	-0.001596	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-3.70	-0.001968	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-2.10	-0.001105	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-1.00	-0.000526	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-3.40	-0.001789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-3.90	-0.002053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-3.60	-0.001895	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-2.20	-0.001158	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-3.10	-0.001632	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-2.20	-0.001158	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	1.30	0.000699	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	0.80	0.000430	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	1.30	0.000699	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	3.60	0.001935	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	2.00	0.001075	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	1.20	0.000645	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	2.20	0.001183	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	0.70	0.000376	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	-3.80	-0.002021	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-2.60	-0.001383	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-3.10	-0.001649	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-3.00	-0.001596	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-3.10	-0.001649	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-3.40	-0.001809	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-3.20	-0.001702	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-4.40	-0.002340	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-1.40	-0.000737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-3.20	-0.001684	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-2.70	-0.001421	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-2.30	-0.001211	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-2.00	-0.001053	±2.5	PASS



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Band2	20MHz	16QAM	19100	100RB#0	NV	30	-2.20	-0.001158	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-3.00	-0.001579	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-2.40	-0.001263	±2.5	PASS



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