



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	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.73	23.03	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.83	23.13	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.90	23.20	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.83	23.13	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.88	23.18	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.00	23.30	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.92	22.22	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.78	23.08	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.91	23.21	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.81	23.11	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.97	23.27	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.77	23.07	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.84	23.14	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.82	22.12	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.93	23.23	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.98	23.28	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.06	23.36	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.27	23.57	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.14	23.44	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.13	23.43	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.02	22.32	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	20.92	21.22	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.71	22.01	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.97	22.27	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.79	22.09	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.72	22.02	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.51	21.81	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.92	21.22	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.62	21.92	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.68	21.98	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.18	21.48	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.46	21.76	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.47	21.77	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.77	22.07	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.98	21.28	33.00	PASS

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Band2	1.4MHz	16QAM	19193	1RB#0	22.26	22.56	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.14	22.44	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.08	22.38	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.11	22.41	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.22	22.52	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.09	22.39	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.35	21.65	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.03	23.33	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.72	23.02	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.95	23.25	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.98	22.28	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.99	22.29	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.94	22.24	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.91	22.21	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.71	23.01	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.85	23.15	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.96	23.26	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.89	22.19	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.90	22.20	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.00	22.30	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.95	22.25	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.01	23.31	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.29	23.59	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.04	23.34	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.17	22.47	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.14	22.44	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.06	22.36	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.09	22.39	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.60	21.90	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.40	21.70	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.46	21.76	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.69	20.99	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.76	21.06	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.72	21.02	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.93	21.23	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.93	22.23	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.01	22.31	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.64	21.94	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.97	21.27	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.97	21.27	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.98	21.28	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.85	21.15	33.00	PASS

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Band2	3MHz	16QAM	19185	1RB#0	21.44	21.74	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.16	22.46	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.97	22.27	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.10	21.40	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#4	21.16	21.46	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.30	21.60	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.19	21.49	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.74	23.04	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.79	23.09	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.77	23.07	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.79	22.09	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.81	22.11	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.89	22.19	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.81	22.11	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.49	22.79	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.64	22.94	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.73	23.03	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.77	22.07	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.77	22.07	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.81	22.11	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.82	22.12	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.73	23.03	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.92	23.22	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.81	23.11	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.98	22.28	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.93	22.23	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.96	22.26	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.84	22.14	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.40	21.70	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.09	21.39	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.64	21.94	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.76	21.06	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.84	21.14	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.72	21.02	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.73	21.03	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.71	22.01	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.79	22.09	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.99	22.29	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.75	21.05	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.75	21.05	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.75	21.05	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.87	21.17	33.00	PASS

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Band2	5MHz	16QAM	19175	1RB#0	22.17	22.47	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.42	21.72	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.20	21.50	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.78	21.08	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.89	21.19	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.82	21.12	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.00	21.30	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.70	23.00	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.01	23.31	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.07	23.37	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.04	22.34	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.05	22.35	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.06	22.36	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.01	22.31	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.77	23.07	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.00	23.30	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.96	23.26	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.09	22.39	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.88	22.18	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.87	22.17	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.02	22.32	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.85	23.15	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.95	23.25	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.16	23.46	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.87	22.17	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.96	22.26	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.95	22.25	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.99	22.29	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.79	22.09	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.52	21.82	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.69	21.99	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.07	21.37	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.96	21.26	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.09	21.39	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.95	21.25	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.72	22.02	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.90	22.20	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.76	22.06	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#0	21.01	21.31	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.17	21.47	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.88	21.18	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.07	21.37	33.00	PASS

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Band2	10MHz	16QAM	19150	1RB#0	21.48	21.78	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.43	21.73	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.81	22.11	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#0	21.07	21.37	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#12	21.07	21.37	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.02	21.32	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.88	21.18	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.59	22.89	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.95	23.25	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.69	22.99	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	22.06	22.36	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	22.13	22.43	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	22.00	22.30	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.05	22.35	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.89	23.19	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.87	23.17	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.74	23.04	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	22.00	22.30	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.88	22.18	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	21.95	22.25	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.02	22.32	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.00	23.30	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.89	23.19	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.78	23.08	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	22.03	22.33	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.93	22.23	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	21.85	22.15	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.98	22.28	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.53	21.83	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.12	22.42	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.94	22.24	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#0	21.13	21.43	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#18	21.13	21.43	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#39	21.09	21.39	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.09	21.39	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.76	22.06	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.79	22.09	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.31	21.61	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#0	20.98	21.28	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#18	20.97	21.27	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#39	20.89	21.19	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.96	21.26	33.00	PASS

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Band2	15MHz	16QAM	19125	1RB#0	21.91	22.21	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.16	22.46	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.49	21.79	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#0	20.97	21.27	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#18	21.03	21.33	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#39	20.94	21.24	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.03	21.33	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.82	23.12	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.10	23.40	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.97	23.27	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.07	22.37	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.16	22.46	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.06	22.36	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.14	22.44	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.74	23.04	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.04	23.34	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.74	23.04	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.11	22.41	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.09	22.39	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.93	22.23	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.00	22.30	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.81	23.11	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.16	23.46	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.88	23.18	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.10	22.40	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.05	22.35	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.90	22.20	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.09	22.39	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.23	21.53	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.85	22.15	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.53	21.83	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#0	21.07	21.37	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#25	21.28	21.58	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#50	21.06	21.36	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.11	21.41	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.98	22.28	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.31	22.61	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.40	21.70	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#0	21.07	21.37	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#25	21.16	21.46	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.12	21.42	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.10	21.40	33.00	PASS

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Band2	20MHz	16QAM	19100	1RB#0	21.49	21.79	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.85	22.15	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.72	22.02	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#0	21.15	21.45	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#25	21.20	21.50	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#50	21.02	21.32	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.08	21.38	33.00	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

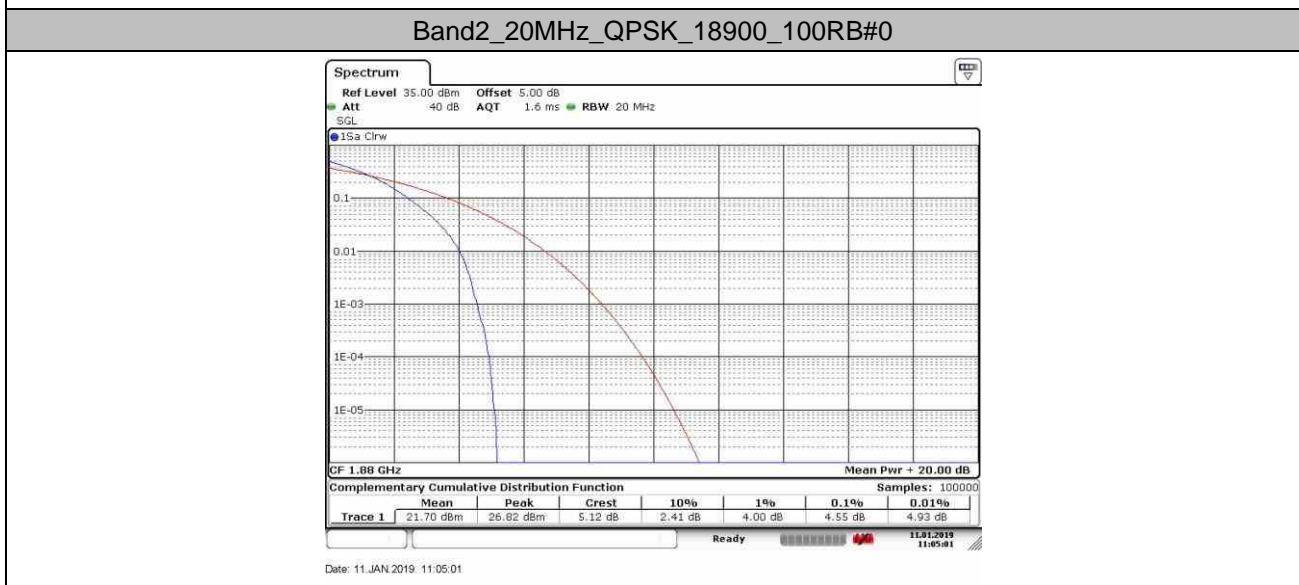
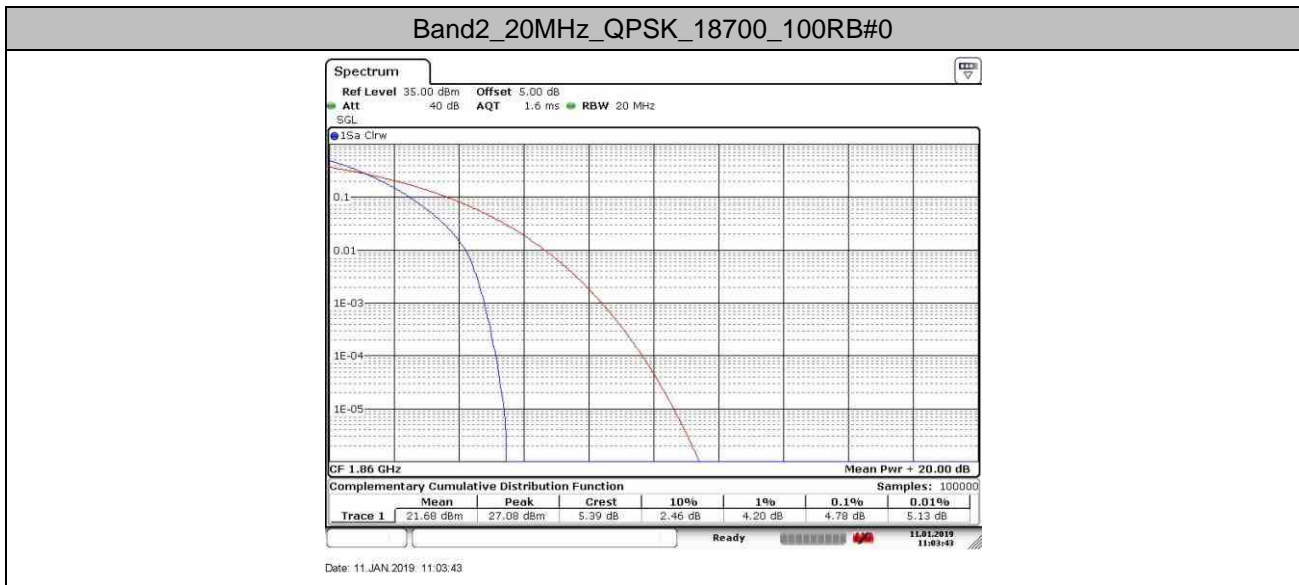
b: SGP=Signal Generator Level

2. Peak-to-Average Ratio(CCDFF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.78	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.55	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.67	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.80	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.77	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.74	13	PASS

2.2. Test Plots



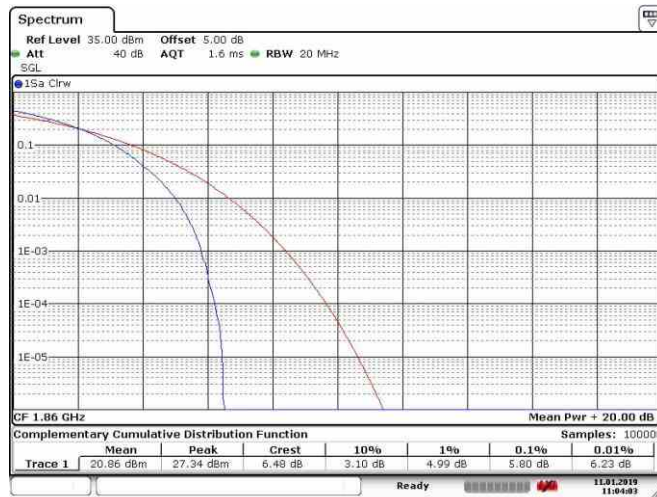
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Band2_20MHz_QPSK_19100_100RB#0



Date: 11 JAN 2019 11:06:08

Band2_20MHz_16QAM_18700_100RB#0



Date: 11 JAN 2019 11:04:04

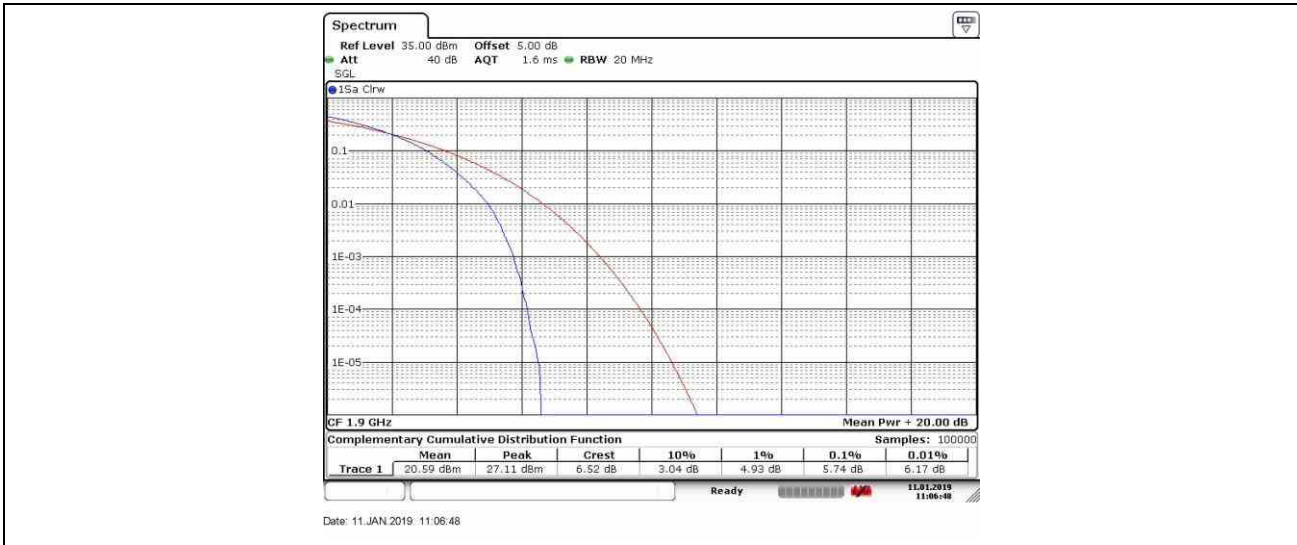
Band2_20MHz_16QAM_18900_100RB#0



Date: 11 JAN 2019 11:04:35

Band2_20MHz_16QAM_19100_100RB#0

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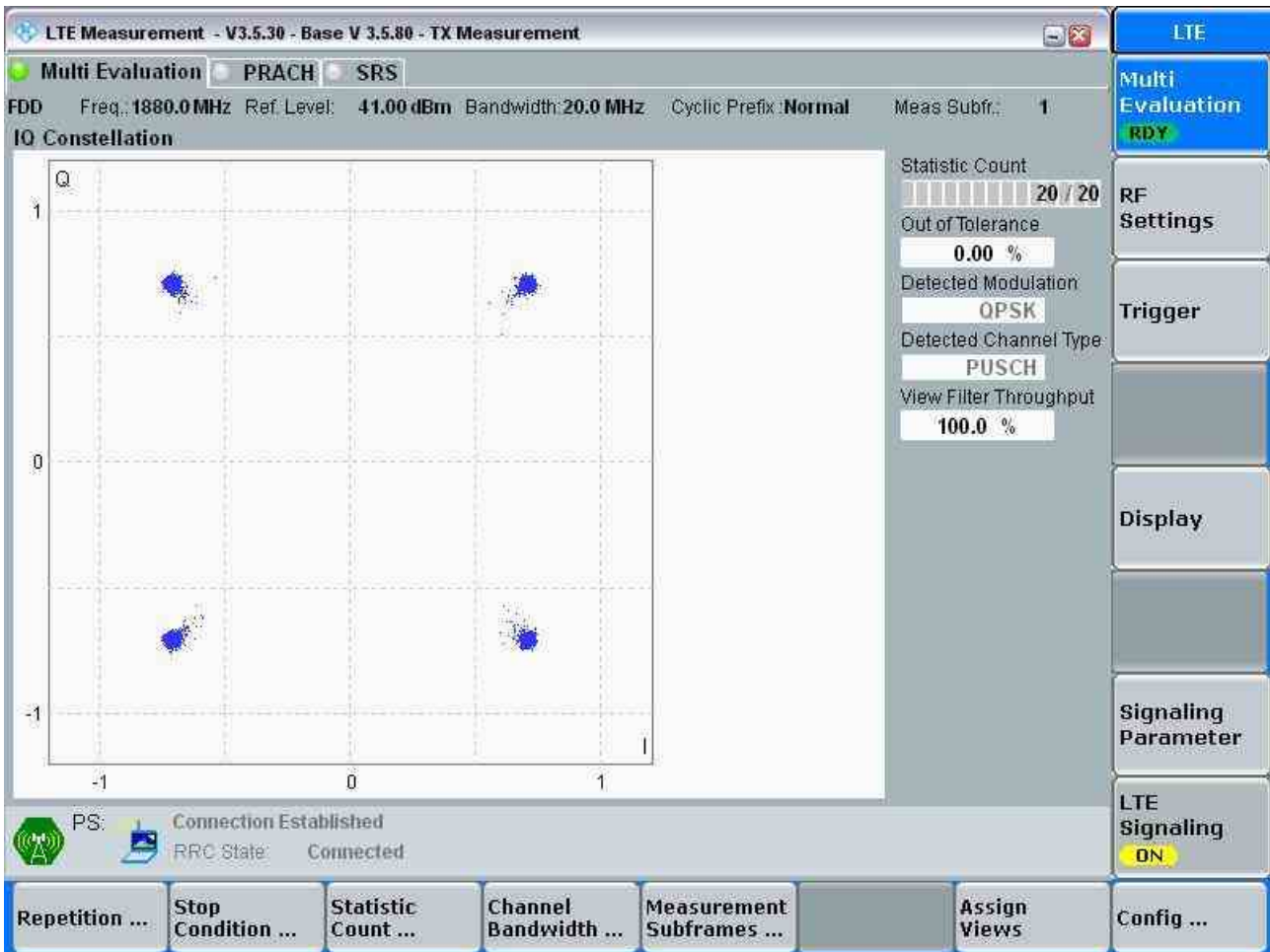


3. Modulation Characteristics

3.1. Test BAND = LTE Band 2

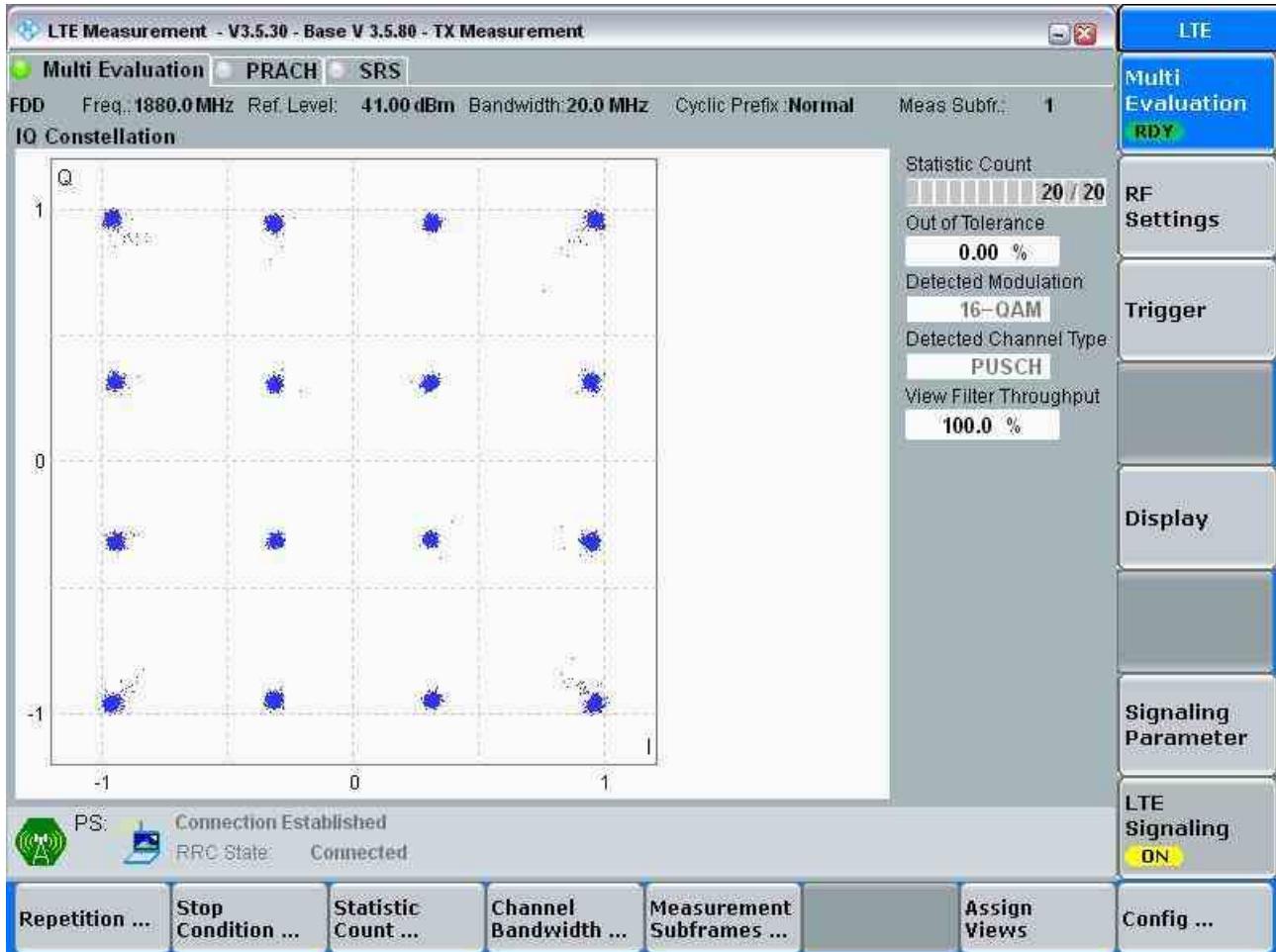
3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



4. 26dB Bandwidth and Occupied Bandwidth

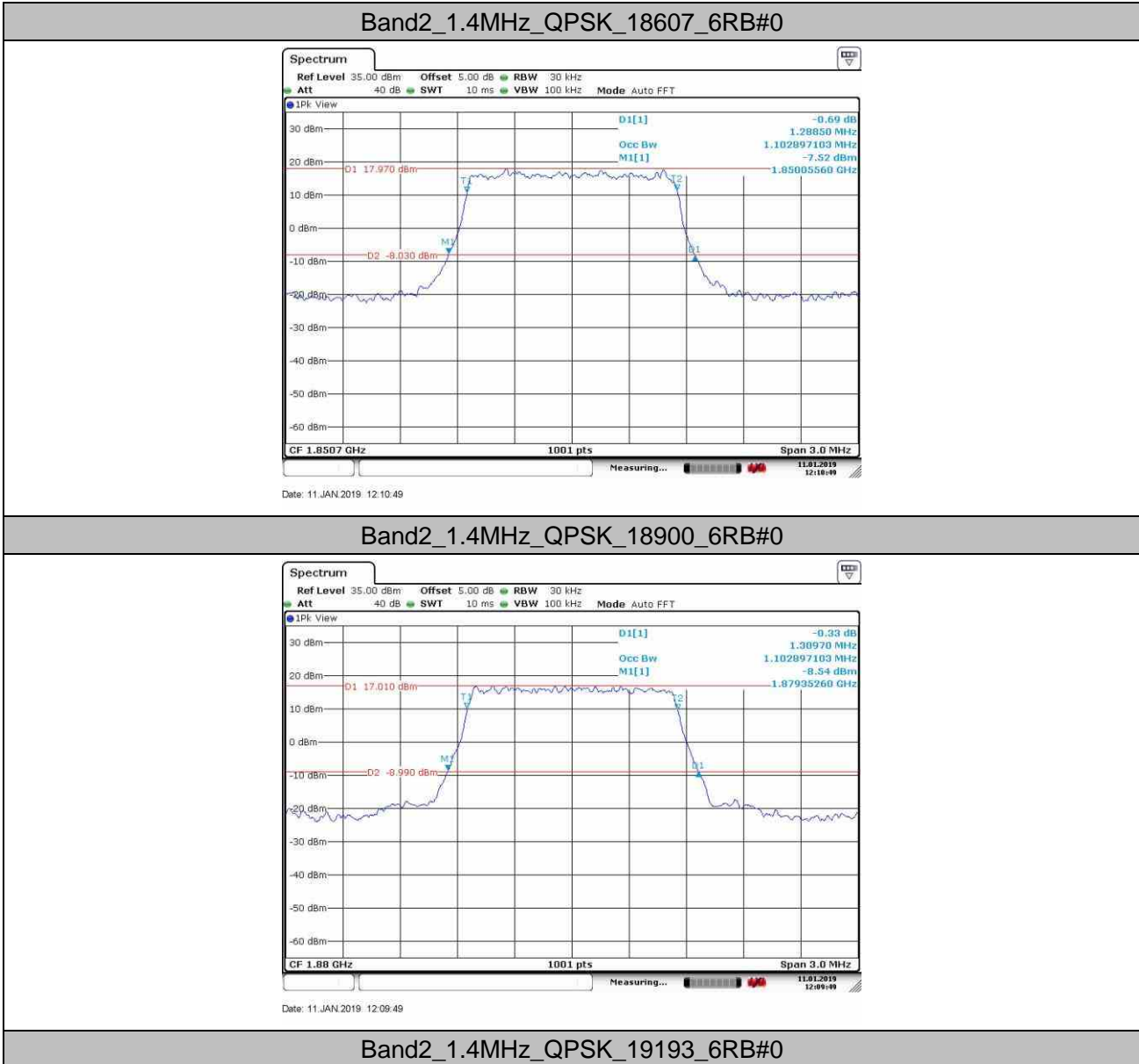
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.102	1.289	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.103	1.310	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.100	1.328	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.097	1.298	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.097	1.304	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.103	1.313	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.931	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.685	2.925	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.685	2.925	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.913	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.943	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.679	2.931	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.486	4.915	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.466	4.895	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.486	4.915	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.486	4.968	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.486	4.925	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.466	4.835	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.710	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.911	9.610	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.931	9.730	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.931	9.630	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.931	9.690	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.931	9.590	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.805	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.427	14.715	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.397	14.745	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.457	14.685	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.427	14.708	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.427	14.685	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.862	19.221	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.822	19.101	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.903	19.540	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.862	19.381	PASS

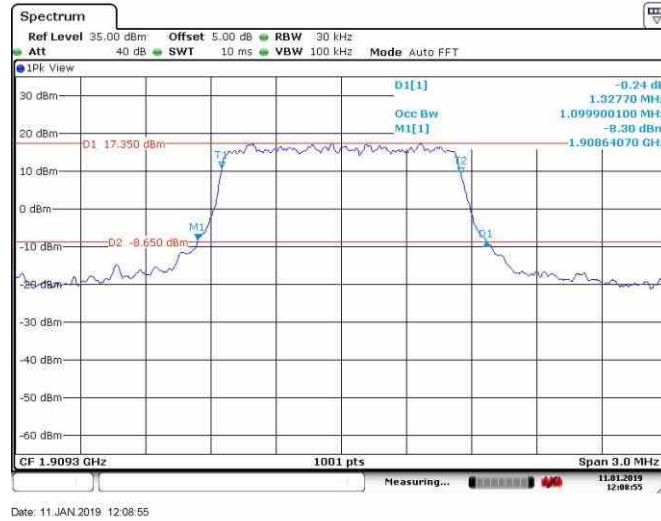
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Band2	20MHz	16QAM	18900	100RB#0	17.902	19.261	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.902	19.301	PASS

4.2. Test Plots



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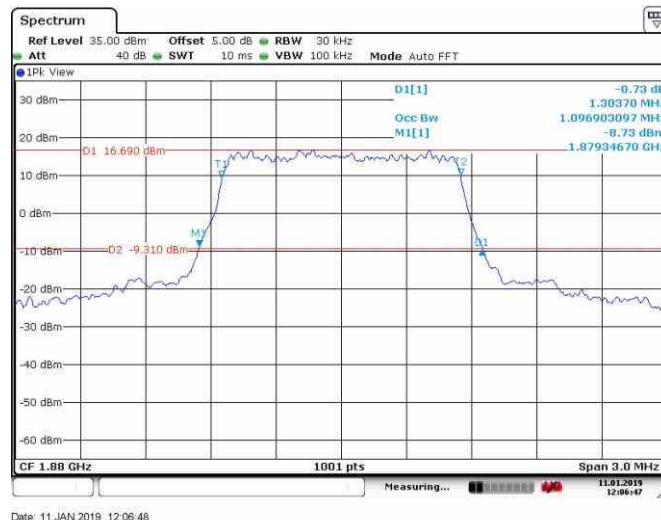
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Date: 11 JAN 2019 12:05:56

Band2_1.4MHz_16QAM_18900_6RB#0



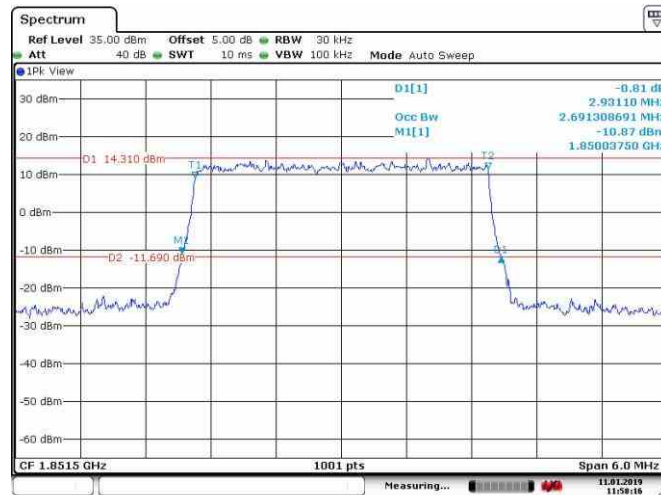
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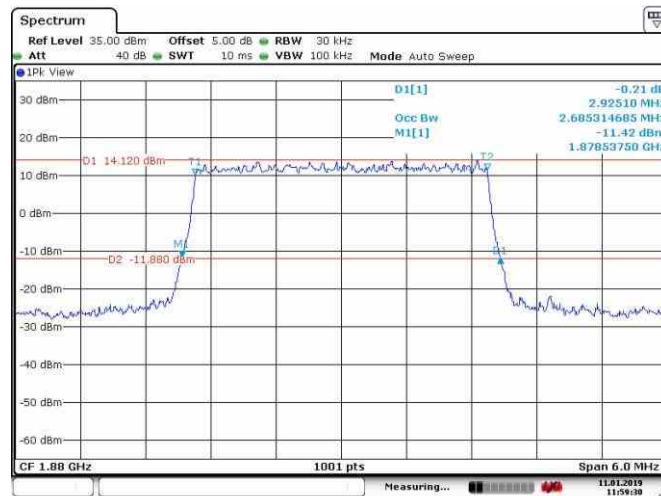
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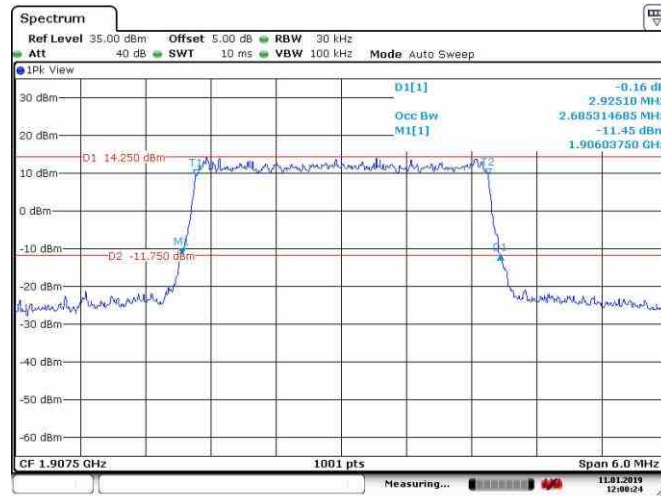
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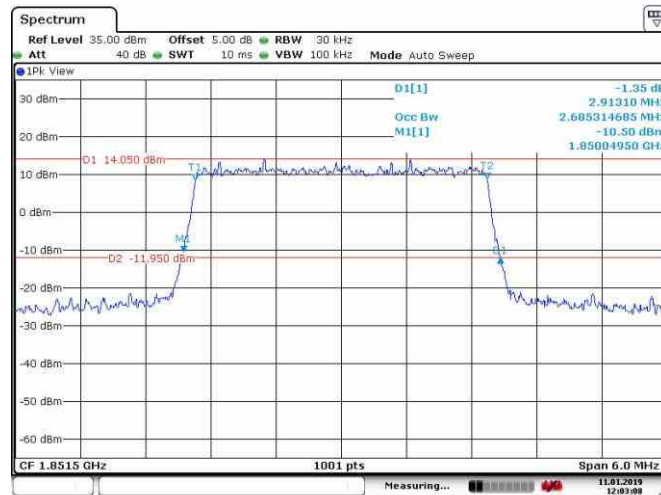
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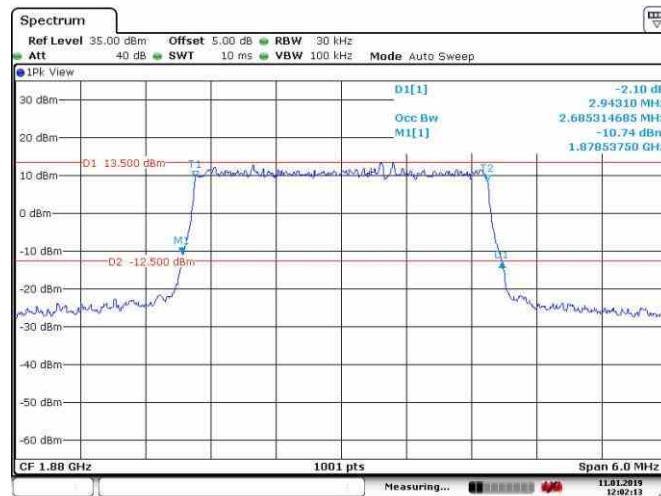
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Band2_3MHz_16QAM_18615_15RB#0



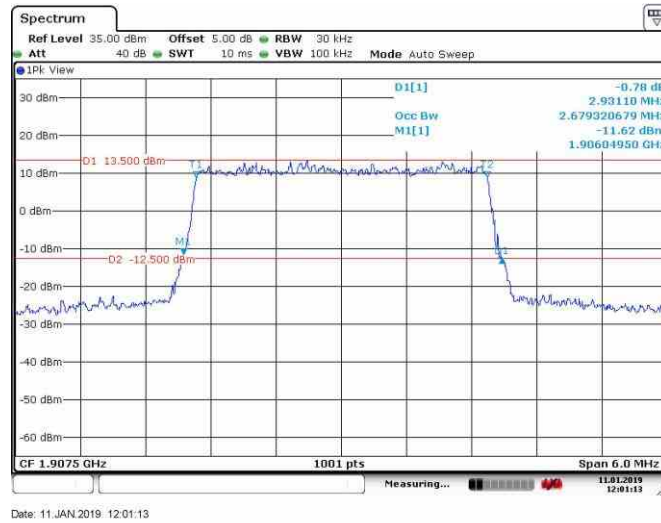
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Band2_3MHz_16QAM_18900_15RB#0

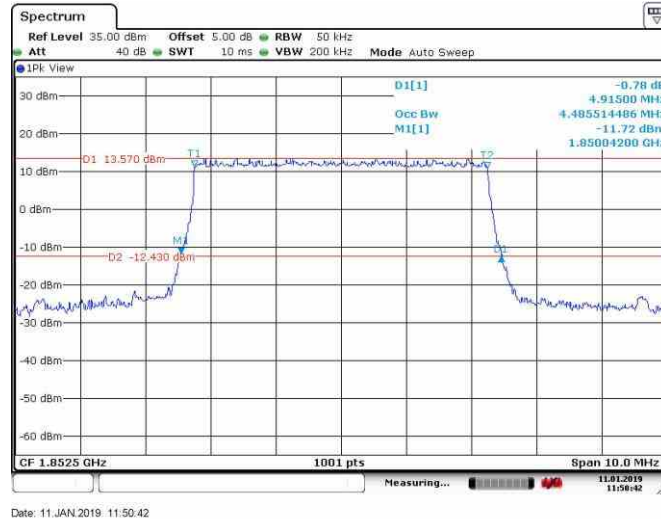


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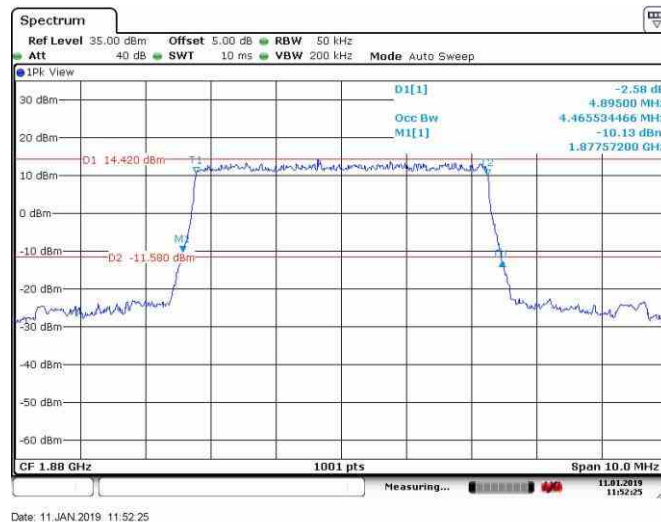
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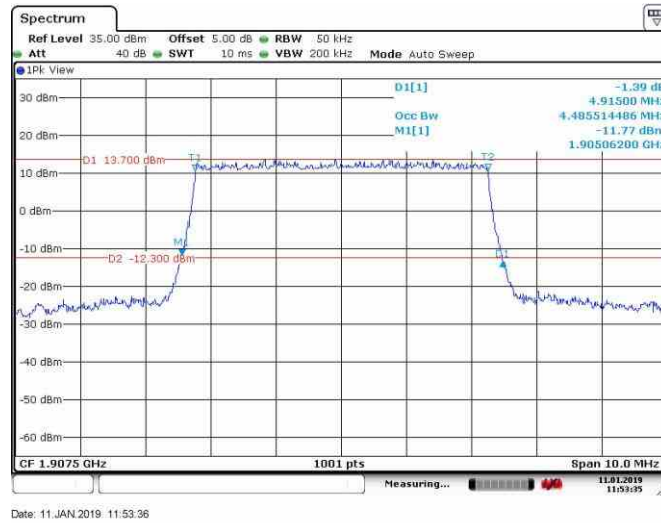
Band2_5MHz_QPSK_18625_25RB#0



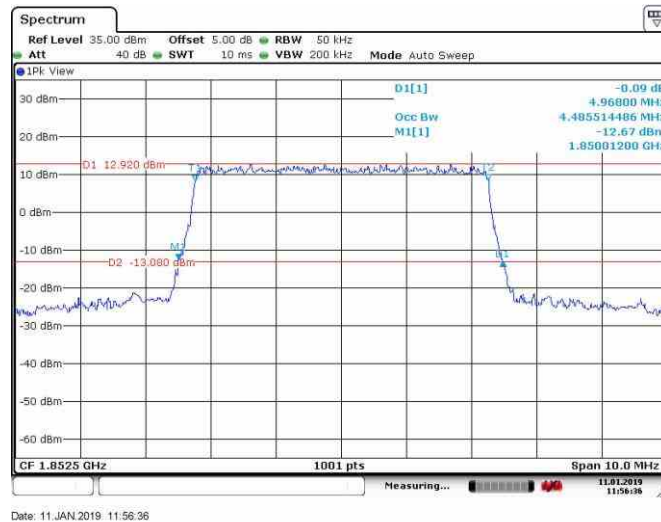
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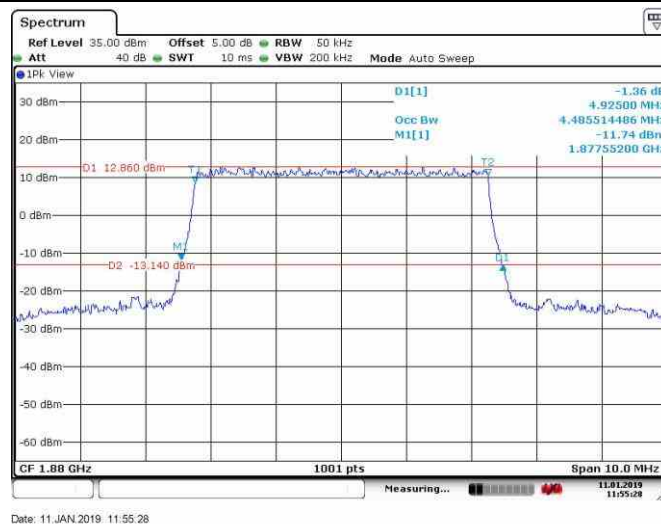
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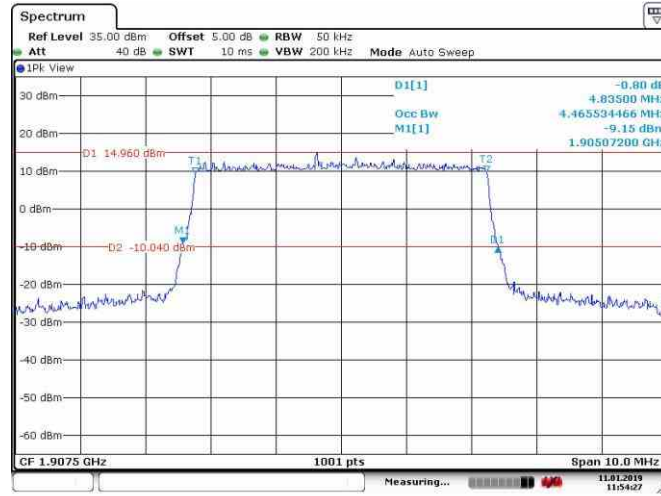
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Band2_5MHz_16QAM_18900_25RB#0

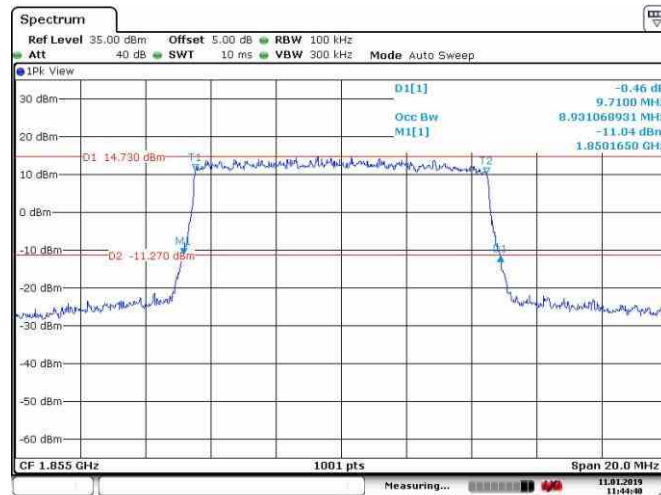


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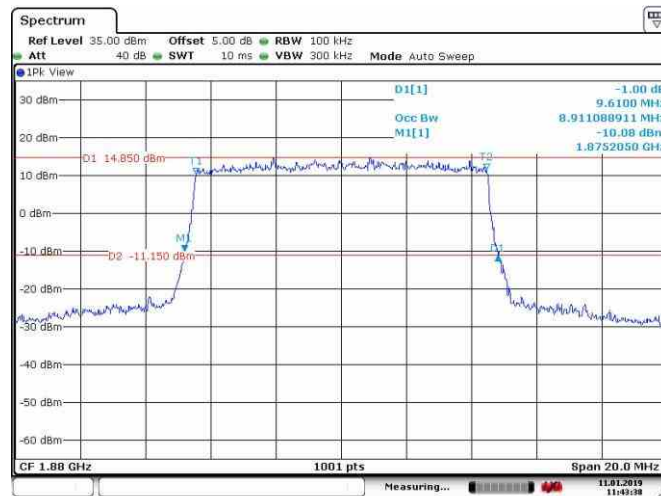
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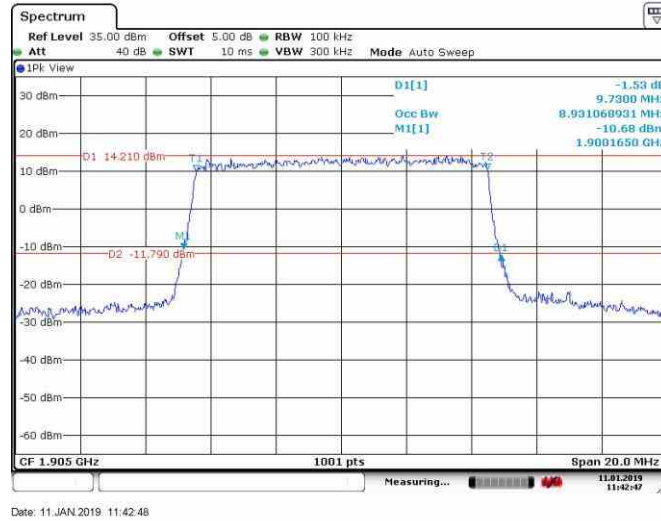
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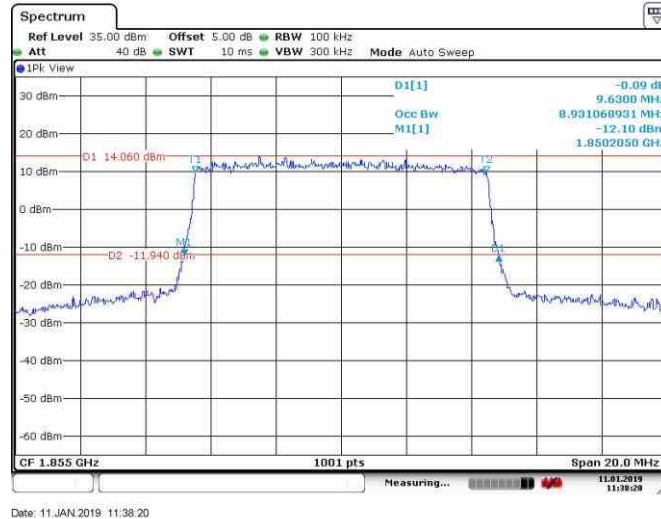


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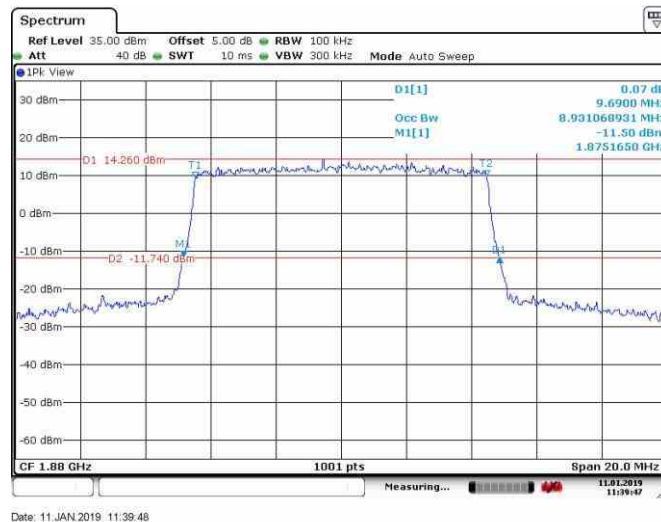
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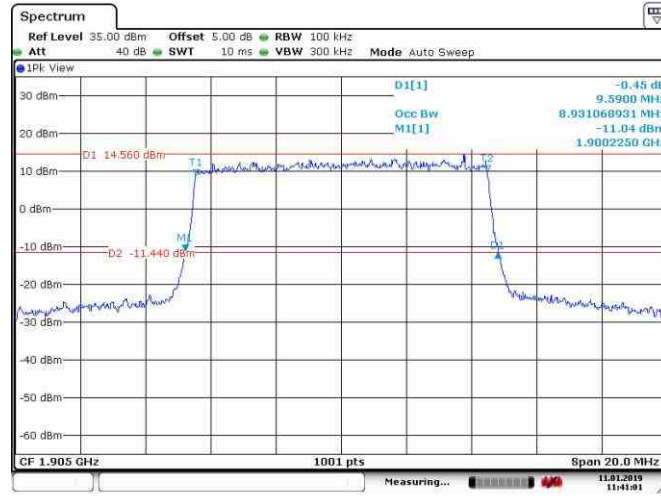


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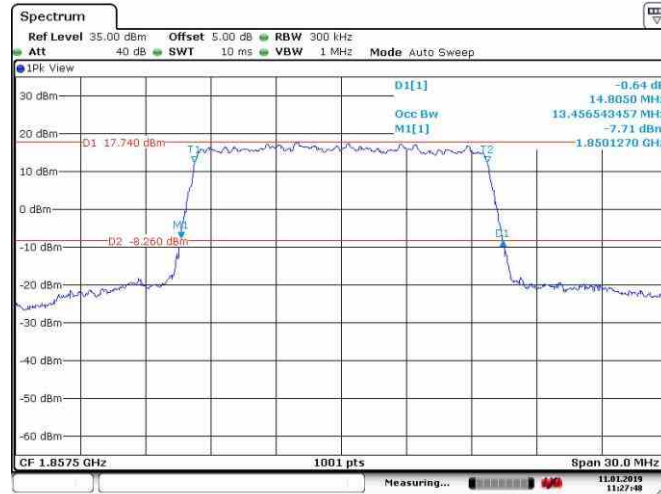
Band2_10MHz_16QAM_19150_50RB#0

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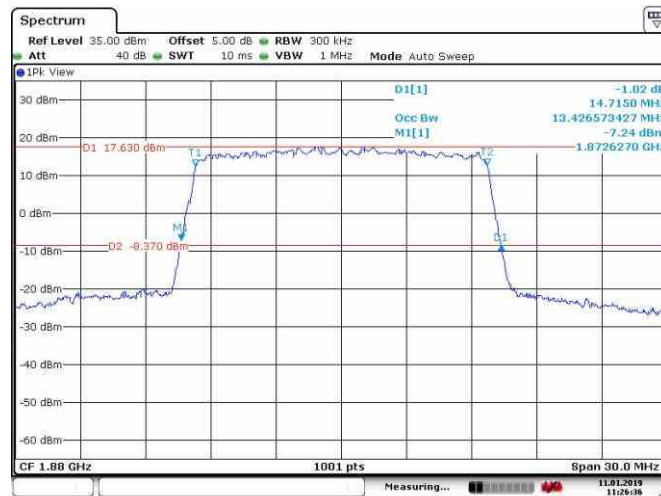
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Band2_15MHz_QPSK_18675_75RB#0



Date: 11 JAN 2019 11:27:48

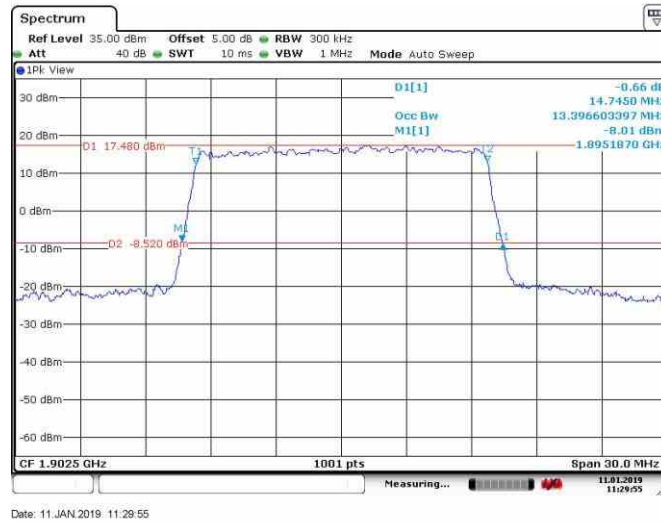
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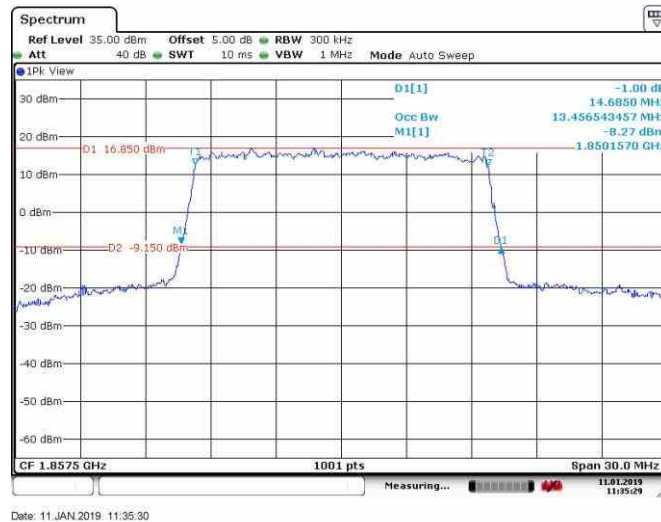
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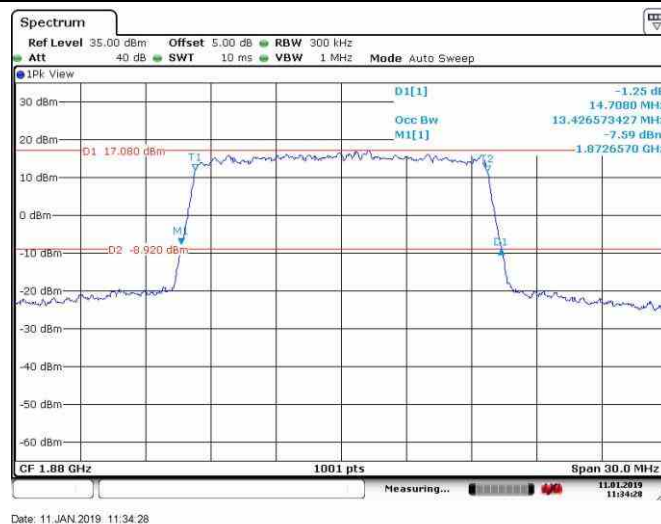
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Band2_15MHz_16QAM_18675_75RB#0

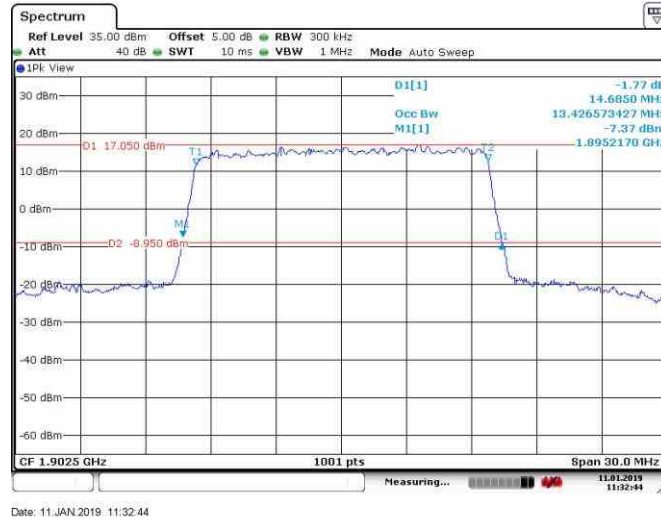


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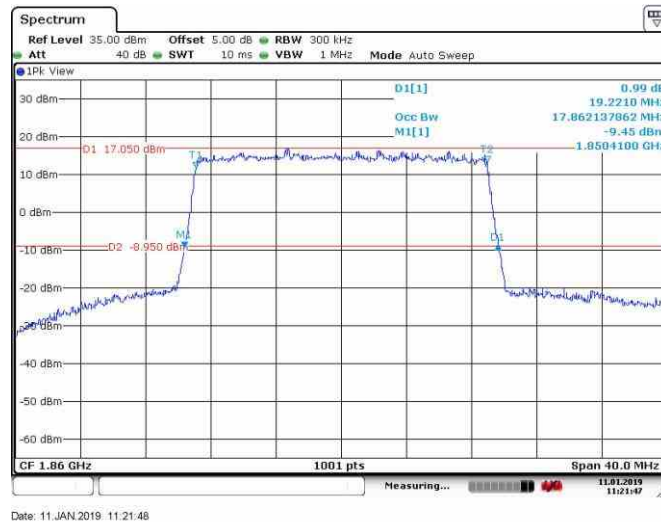


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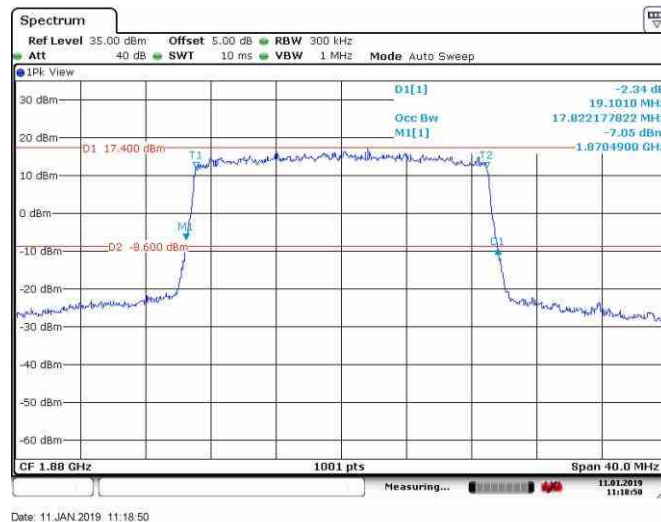
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Band2_20MHz_QPSK_18700_100RB#0

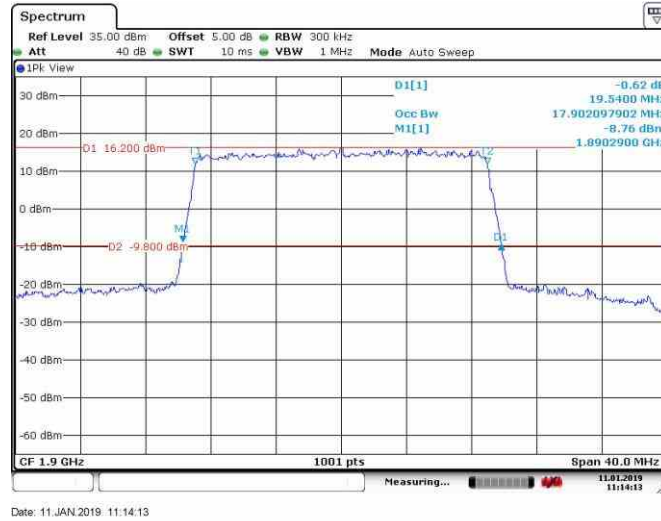


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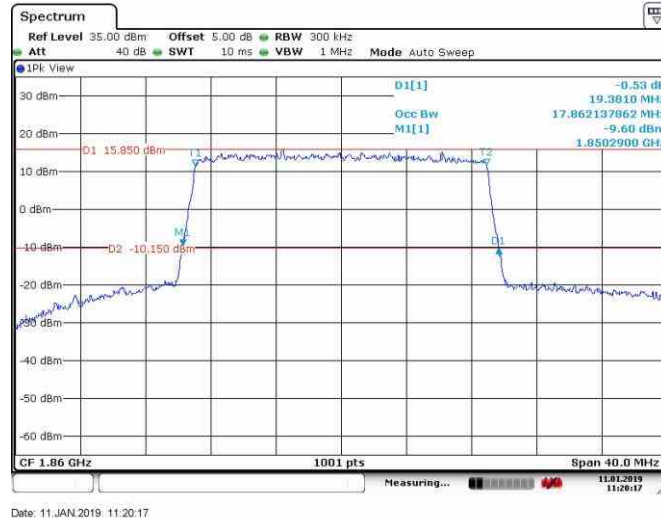


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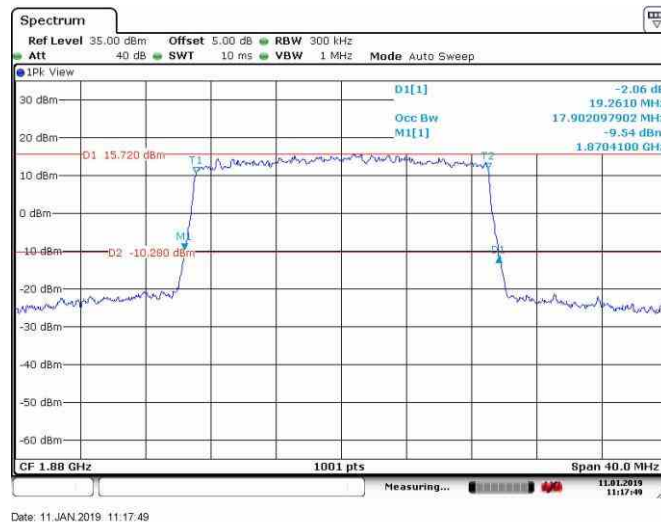
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Band2_20MHz_16QAM_18700_100RB#0

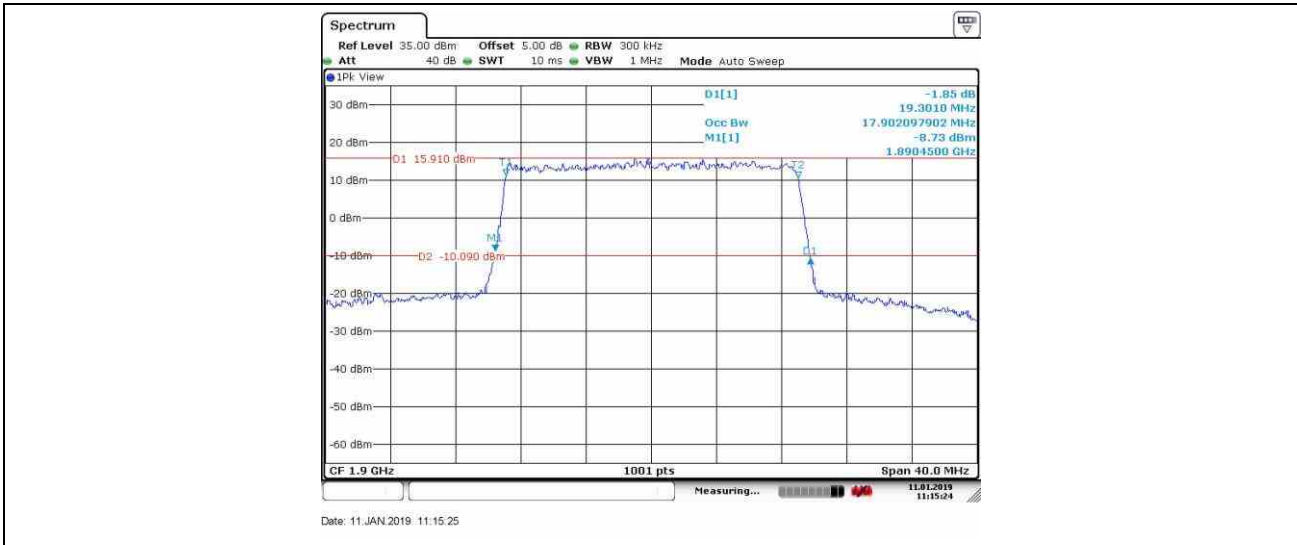


Band2_20MHz_16QAM_18900_100RB#0



Band2_20MHz_16QAM_19100_100RB#0

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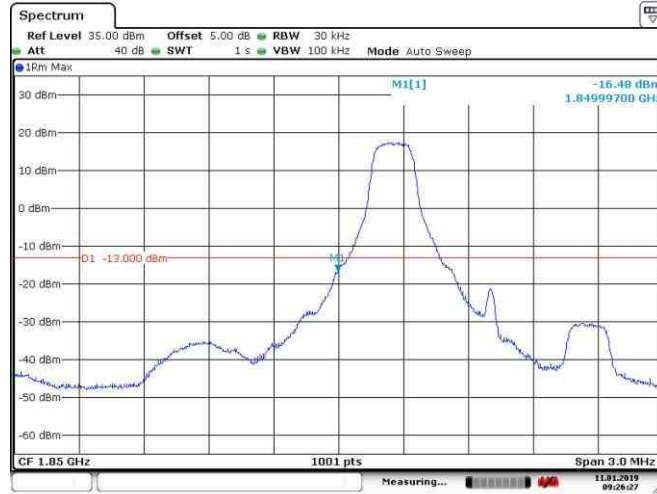


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5. Band Edge Compliance

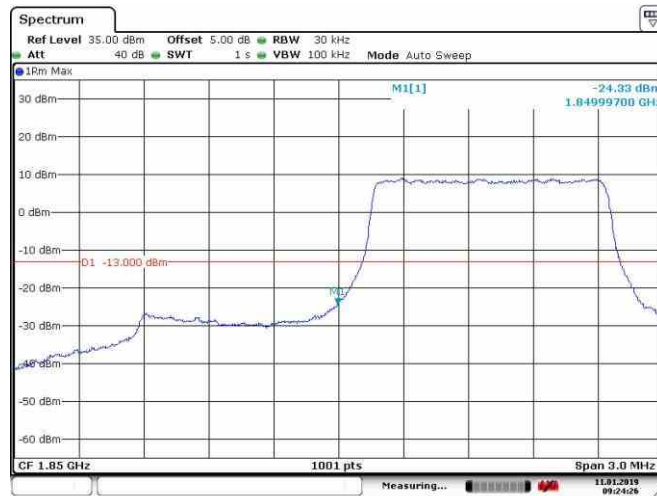
5.1. Test Plots

Band2_1.4MHz_QPSK_18607_1RB#0



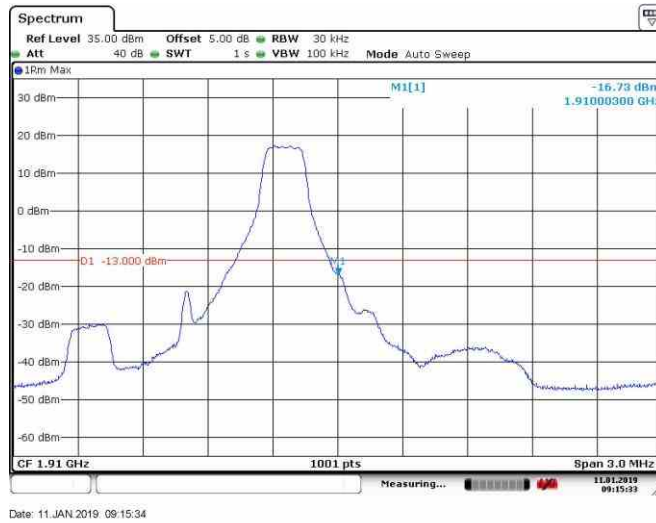
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Band2_1.4MHz_QPSK_18607_6RB#0



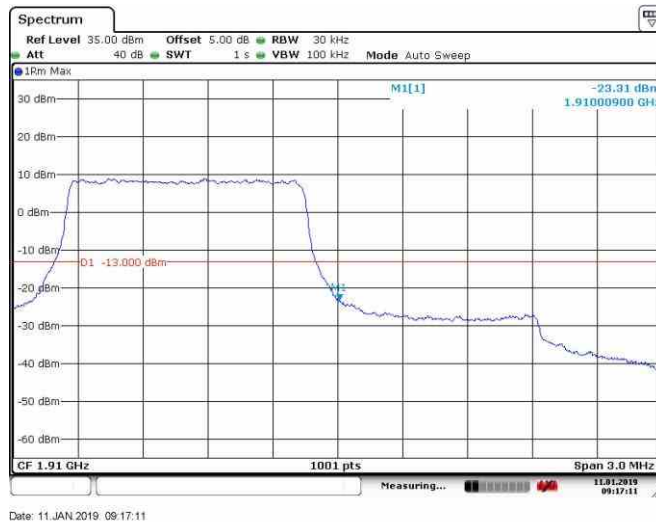
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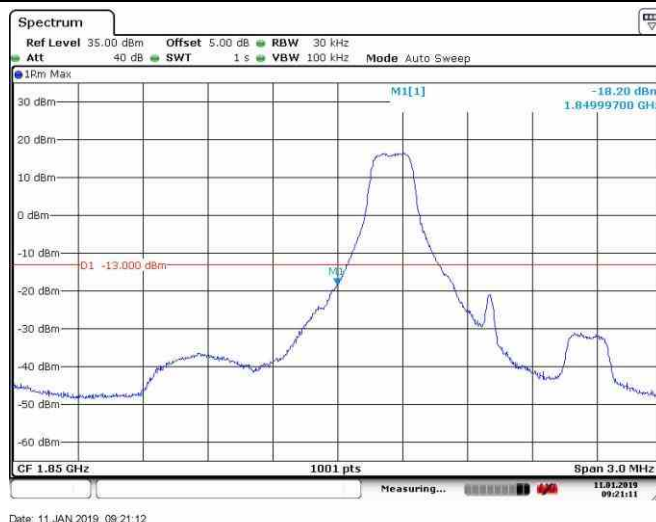
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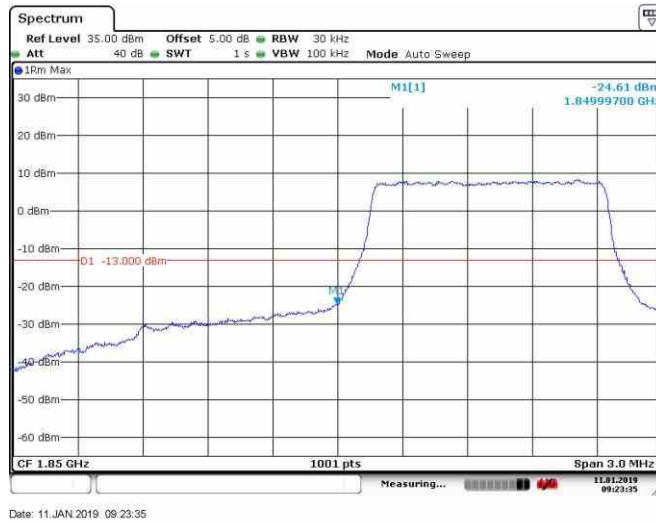
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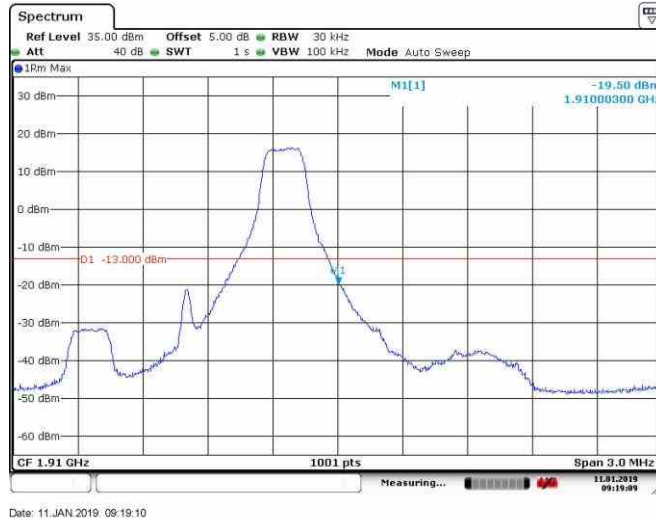


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Band2_1.4MHz_16QAM_18607_6RB#0



Band2_1.4MHz_16QAM_19193_1RB#5

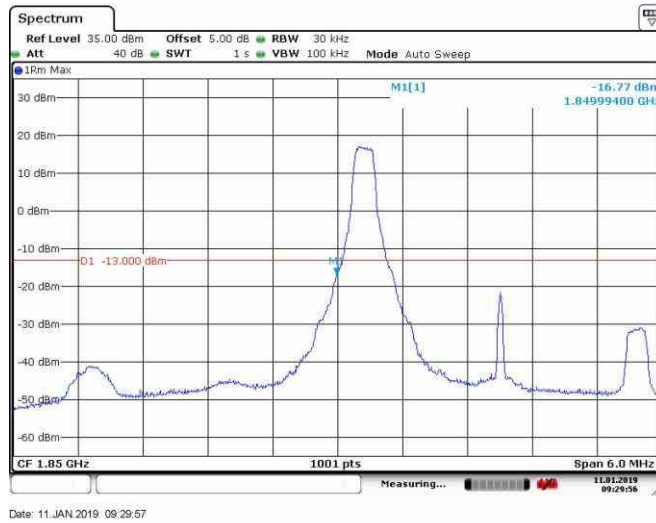


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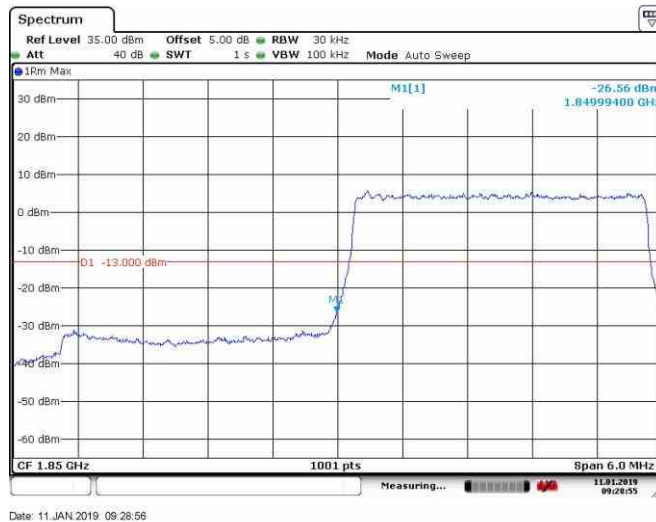


Band2_3MHz_QPSK_18615_1RB#0

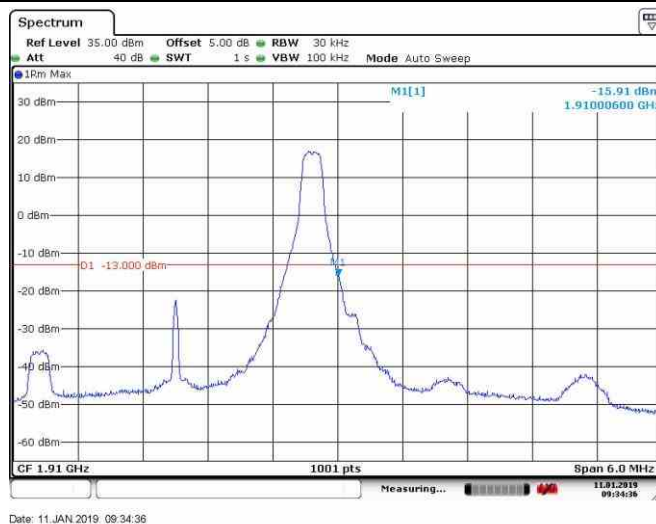
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Band2_3MHz_QPSK_18615_15RB#0

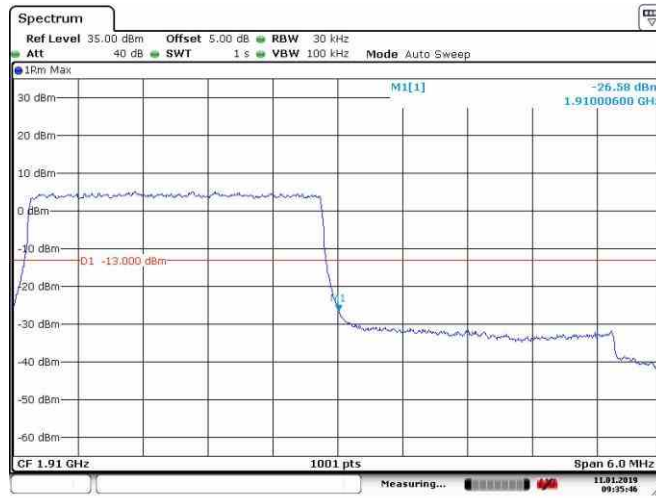


Band2_3MHz_QPSK_19185_1RB#14



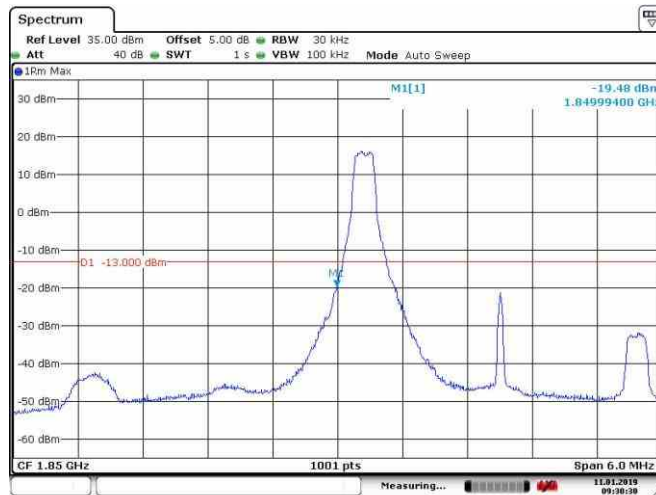
Band2_3MHz_QPSK_18615_15RB#0

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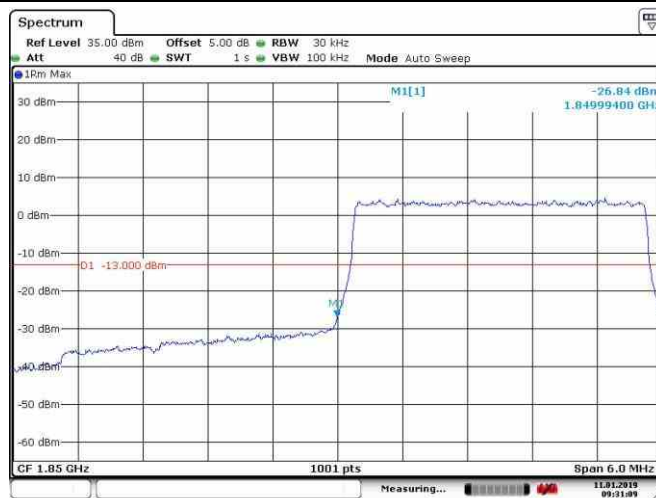
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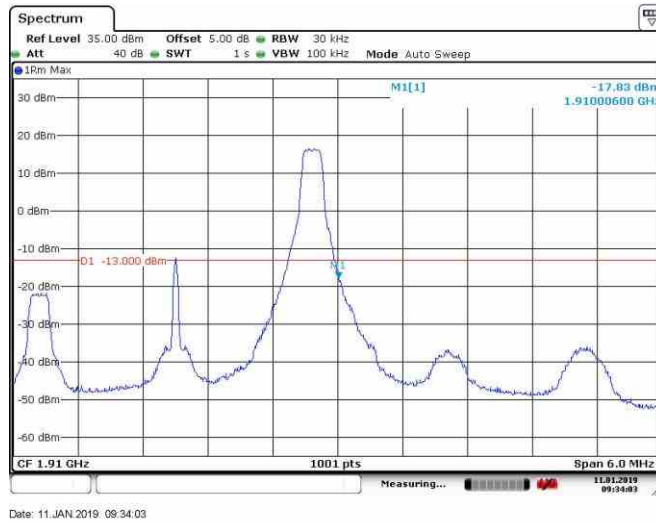
Band2_3MHz_16QAM_18615_15RB#0



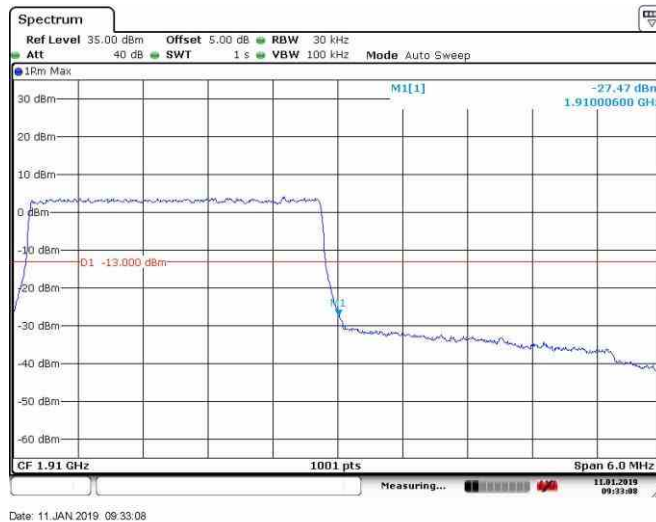
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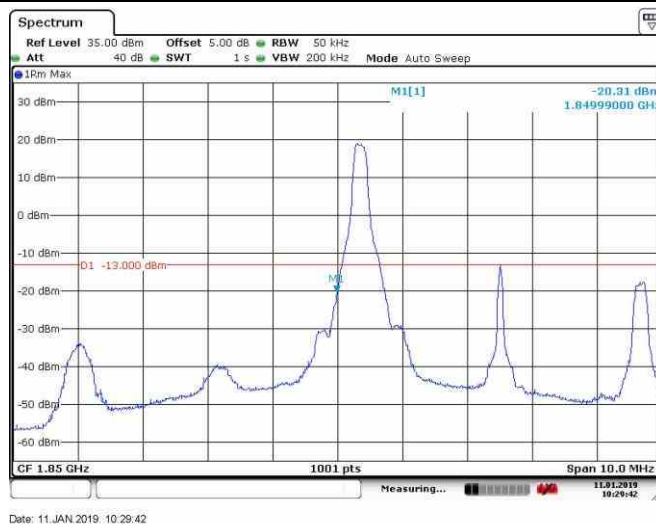
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Band2_3MHz_16QAM_19185_15RB#0

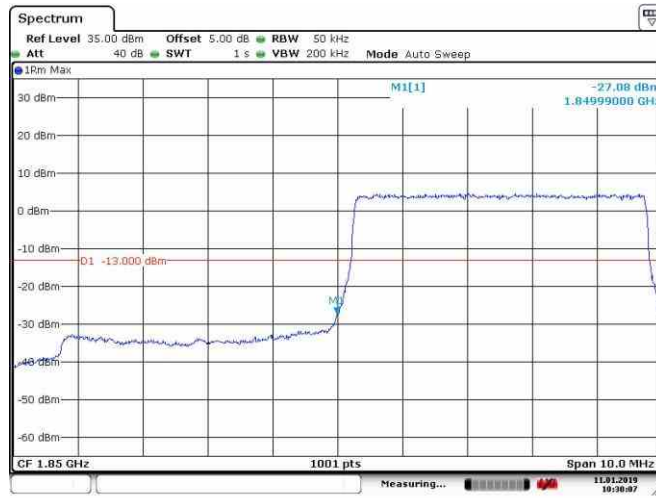


Band2_5MHz_QPSK_18625_1RB#0



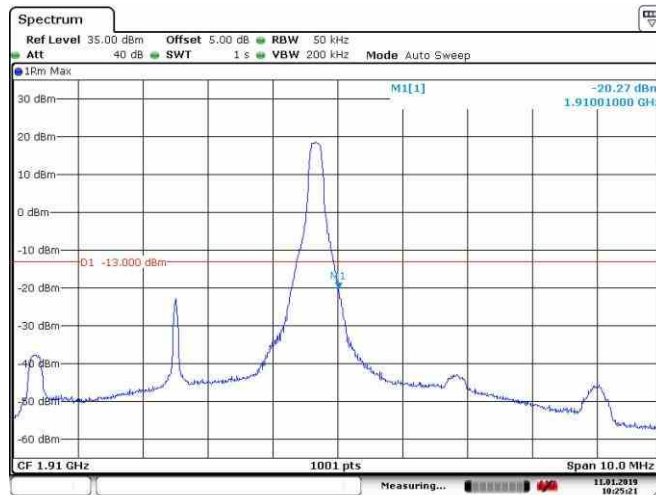
Band2_5MHz_QPSK_18625_25RB#0

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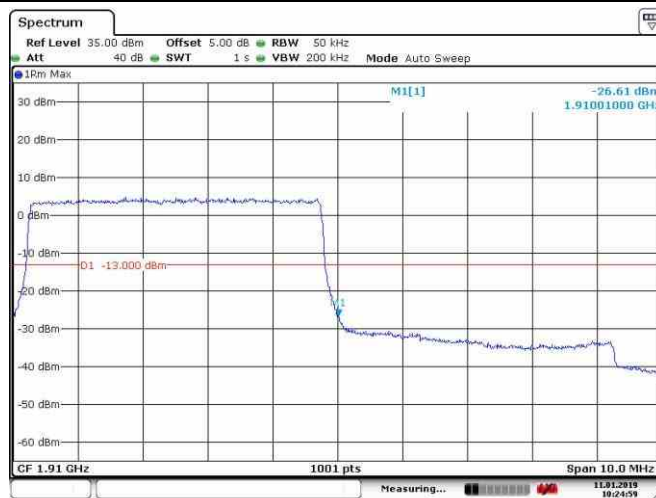
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Band2_5MHz_QPSK_19175_1RB#24



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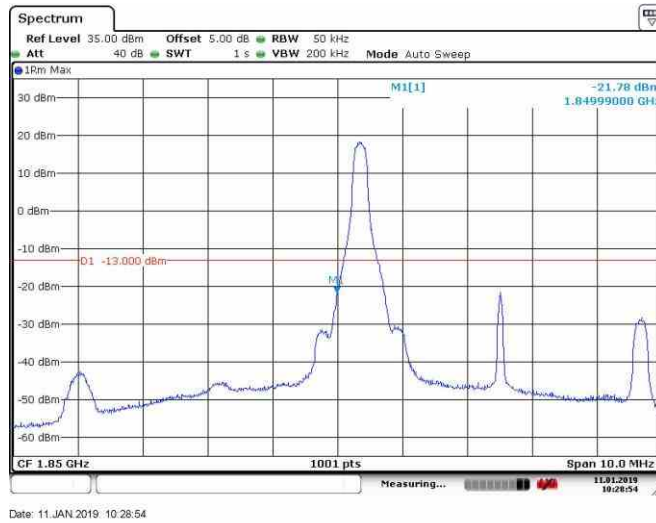
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Date: 11.JAN.2019 10:24:59

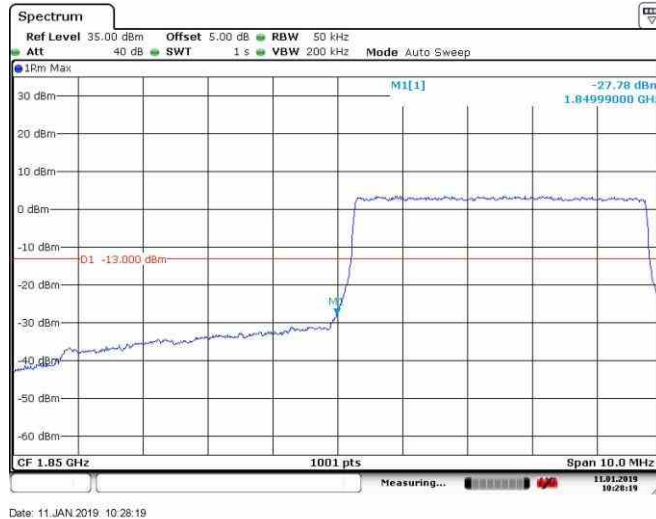
Band2_5MHz_16QAM_18625_1RB#0

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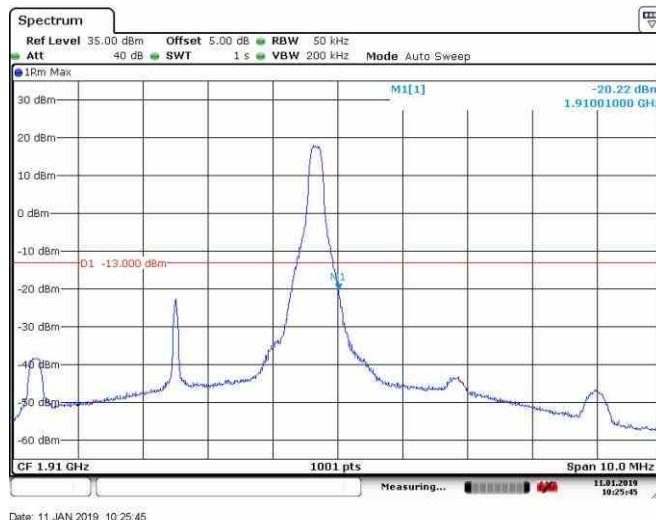
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Band2_5MHz_16QAM_18625_25RB#0



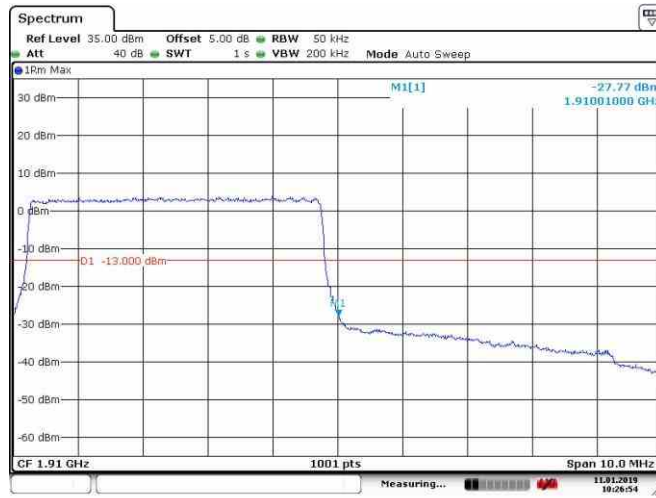
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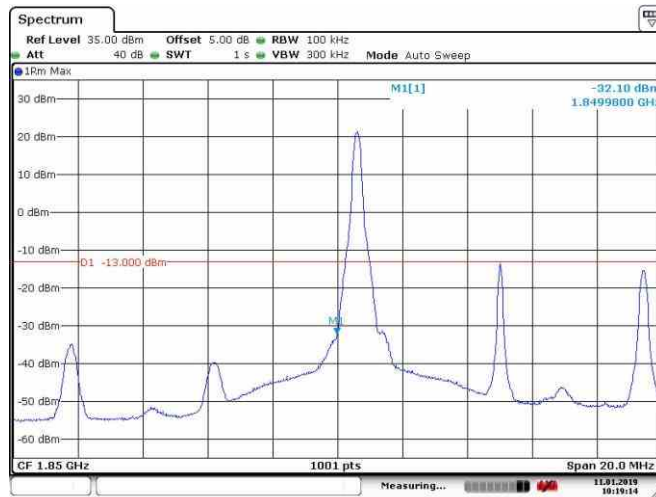
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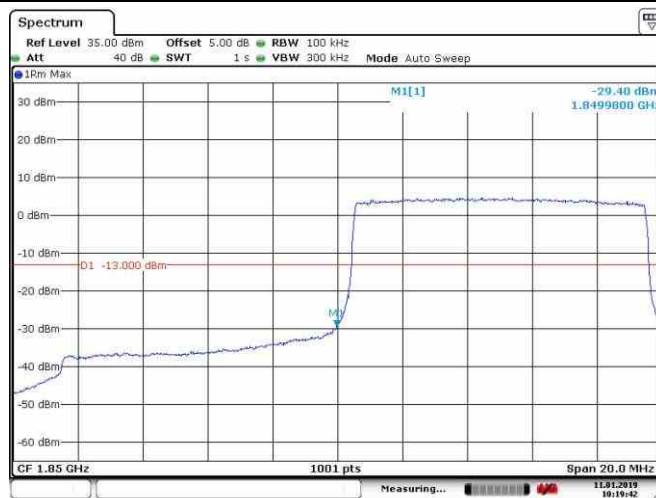
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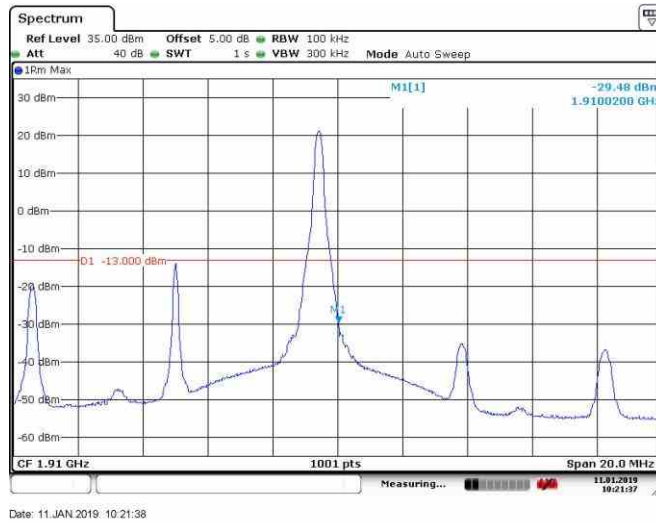
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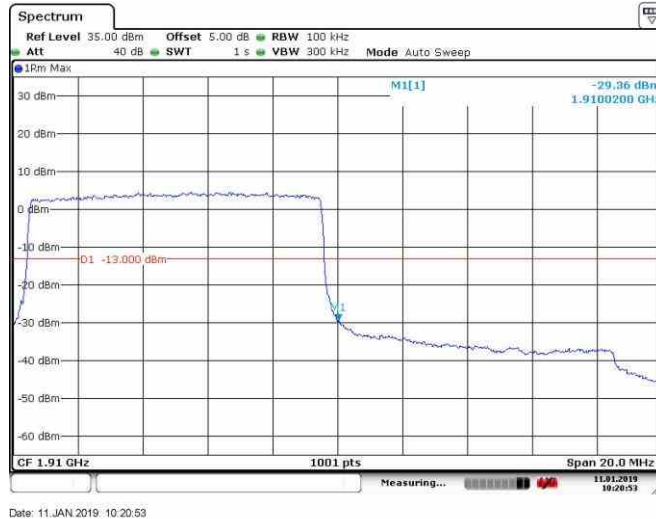
Band2_10MHz_QPSK_19150_1RB#49

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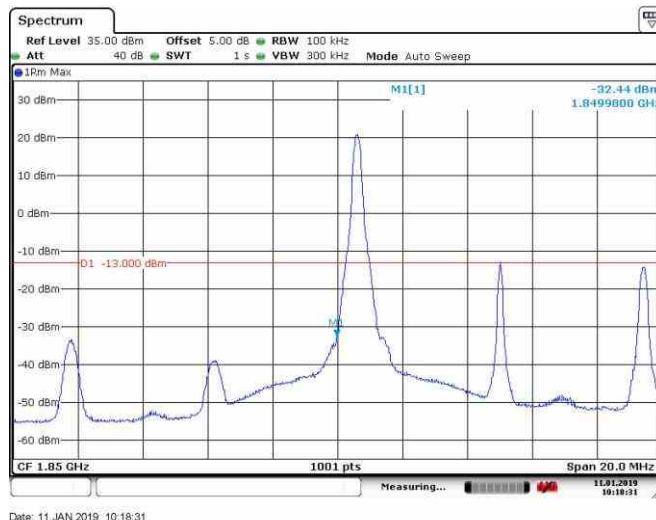
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Band2_10MHz_QPSK_19150_50RB#0



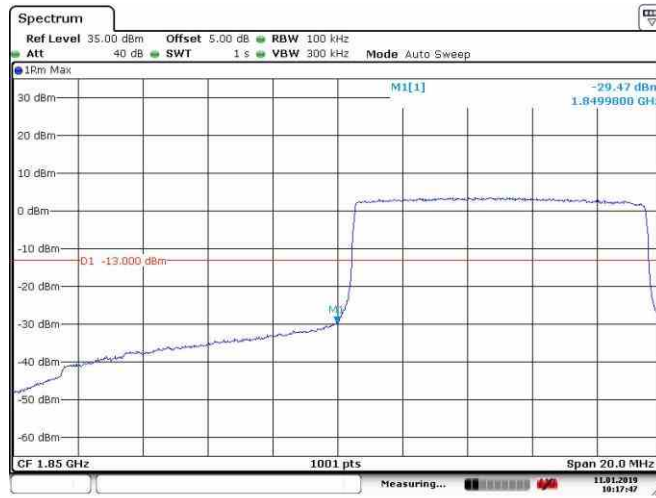
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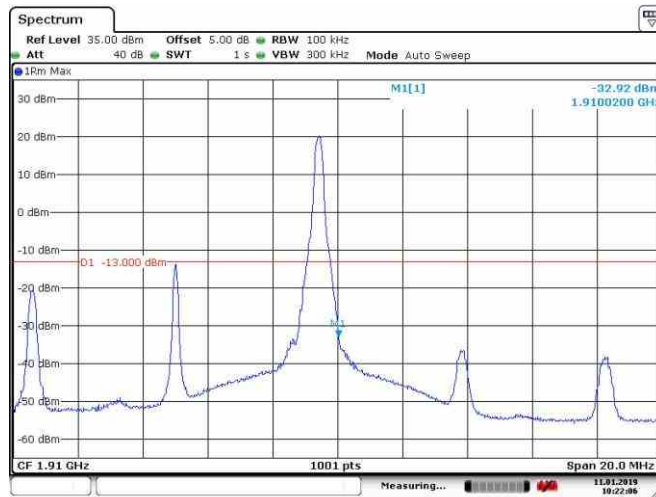


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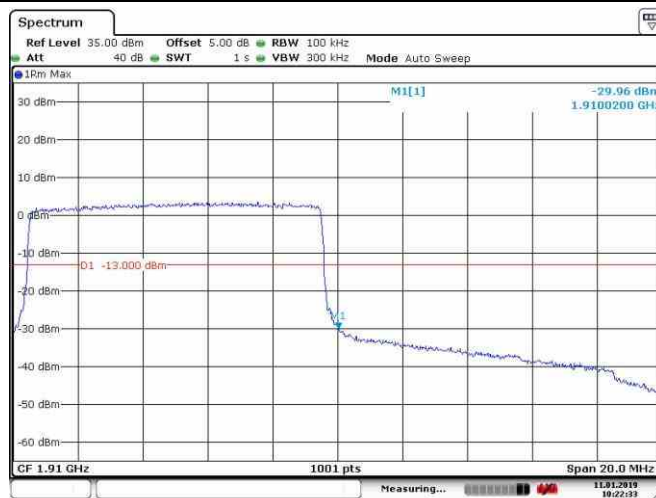
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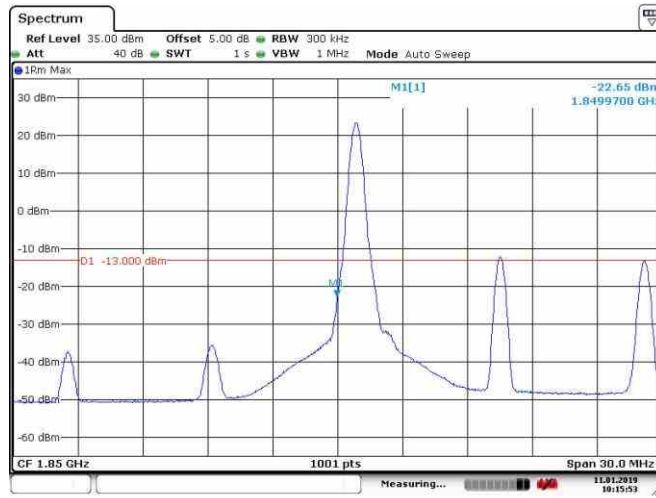


Band2_10MHz_16QAM_19150_50RB#0



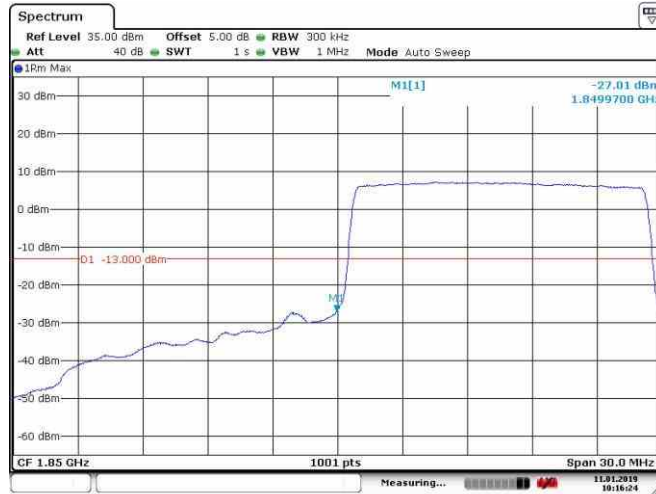
Band2_15MHz_QPSK_18675_1RB#0

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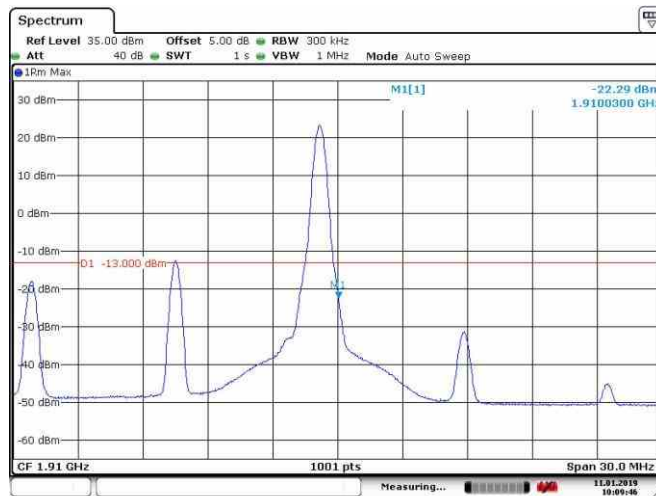
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Band2_15MHz_QPSK_18675_75RB#0



Date: 11.JAN.2019 10:16:24

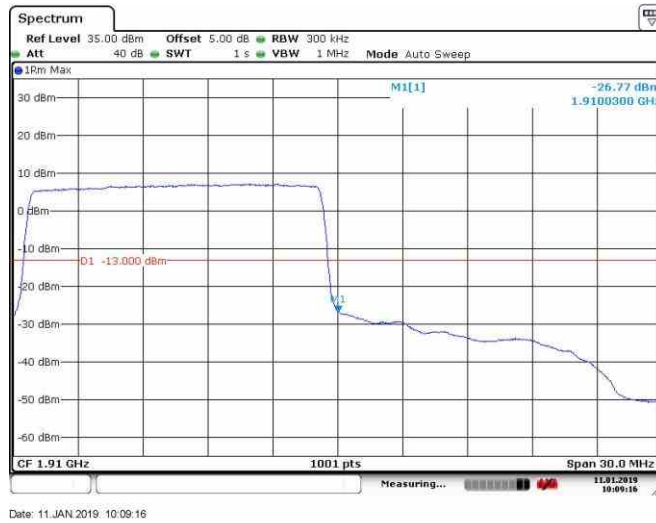
Band2_15MHz_QPSK_19125_1RB#74



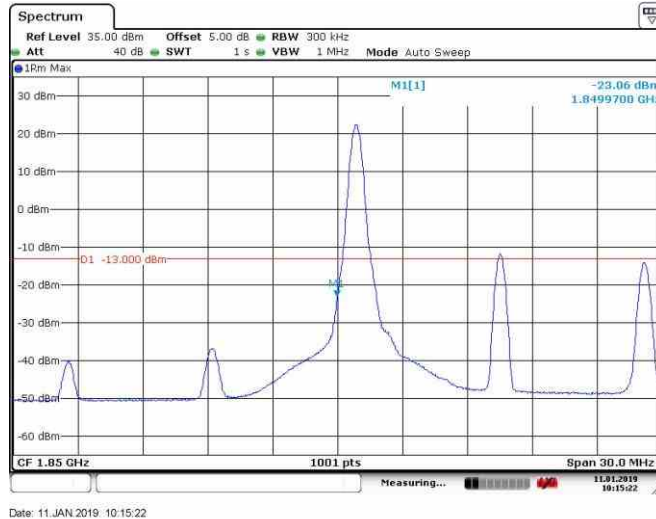
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Band2_15MHz_QPSK_19125_75RB#0

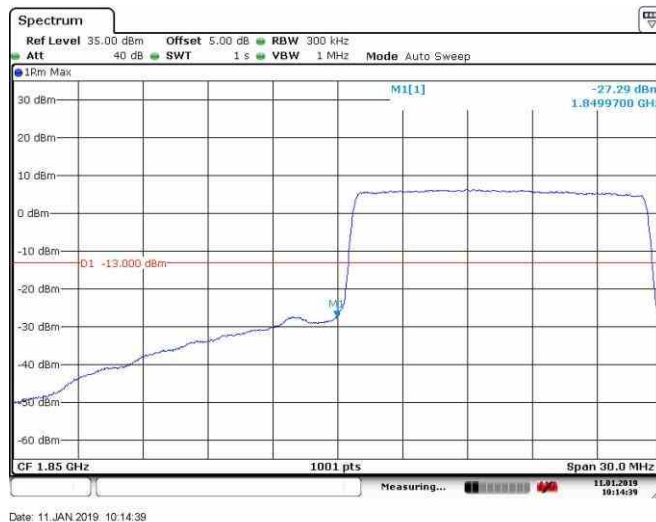
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Band2_15MHz_16QAM_18675_1RB#0

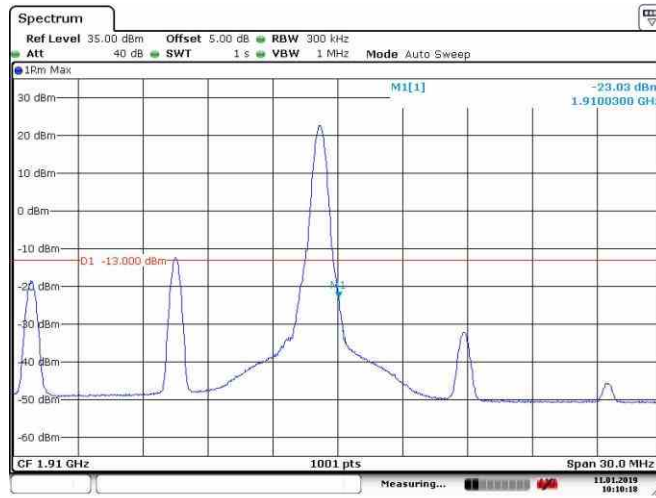


Band2_15MHz_16QAM_18675_75RB#0



Band2_15MHz_16QAM_19125_1RB#74

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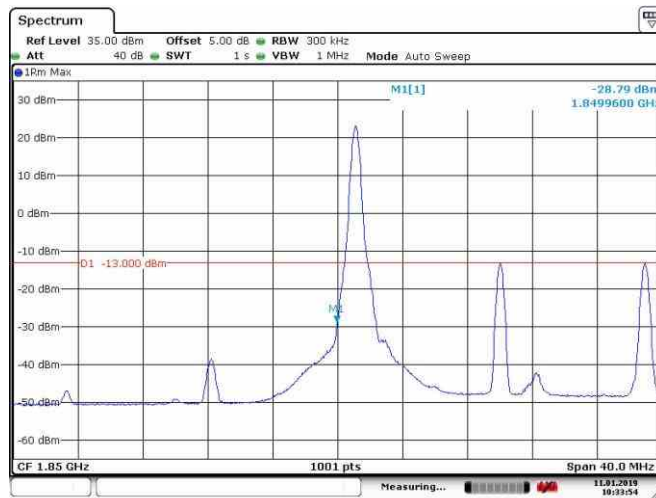
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Band2_15MHz_16QAM_19125_75RB#0



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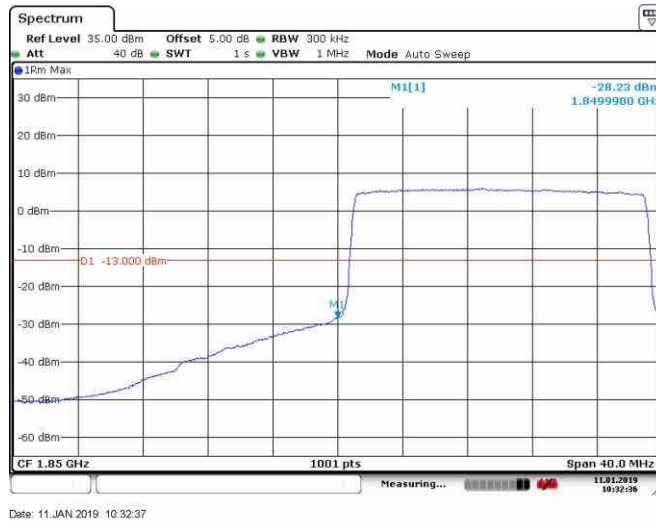
Band2_20MHz_QPSK_18700_1RB#0



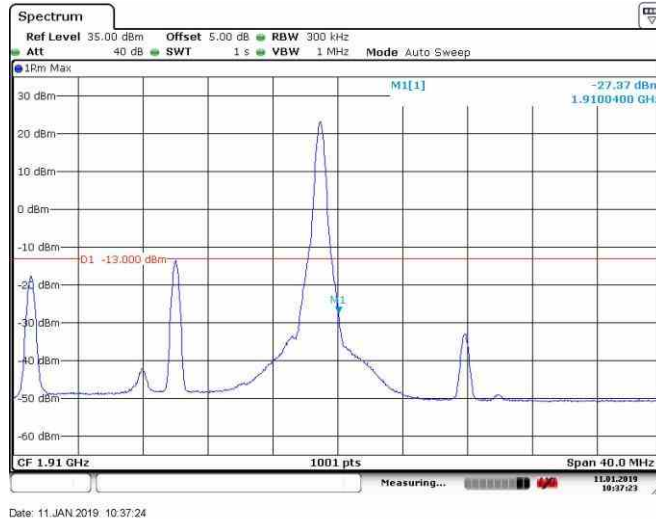
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Band2_20MHz_QPSK_18700_100RB#0

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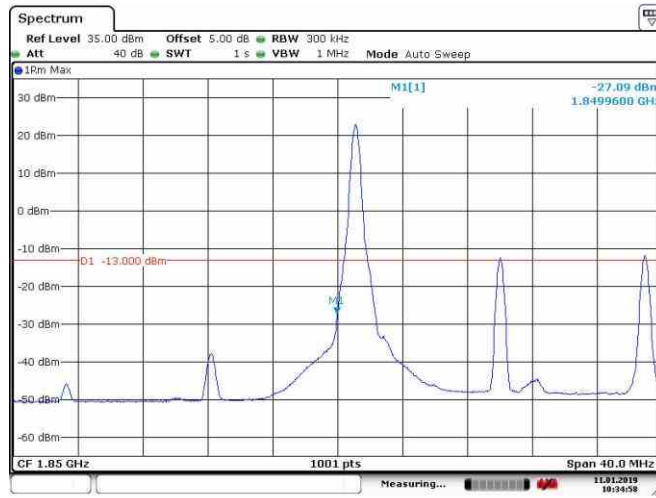
Band2_20MHz_QPSK_19100_1RB#99



Band2_20MHz_QPSK_19100_100RB#0

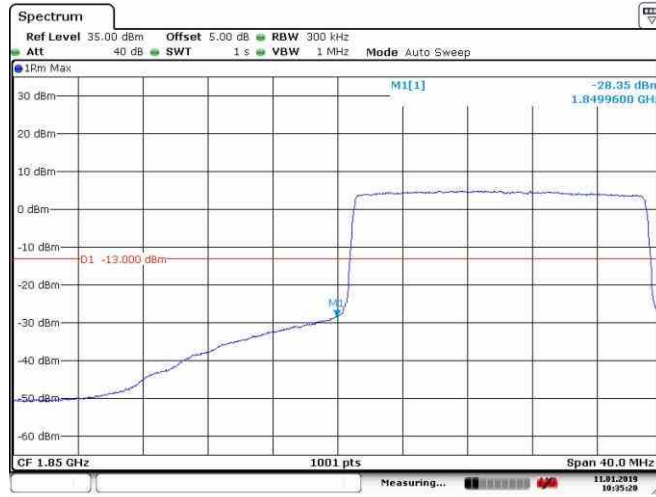


Band2_20MHz_16QAM_18700_1RB#0



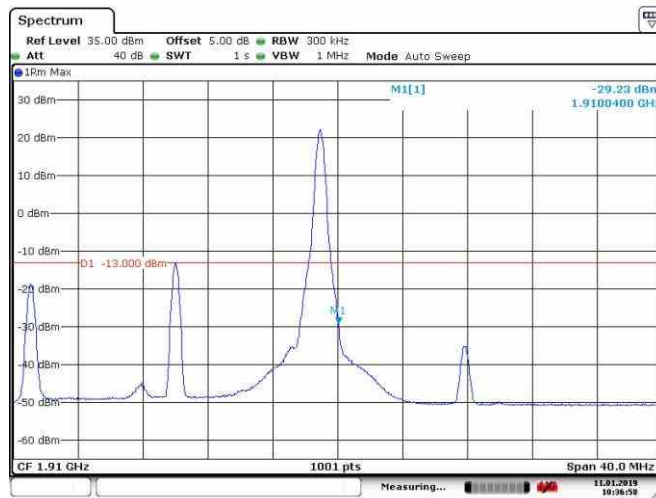
Date: 11.JAN.2019 10:34:58

Band2_20MHz_16QAM_18700_100RB#0



Date: 11.JAN.2019 10:35:20

Band2_20MHz_16QAM_19100_1RB#99



Date: 11.JAN.2019 10:36:58

Band2_20MHz_16QAM_19100_100RB#0

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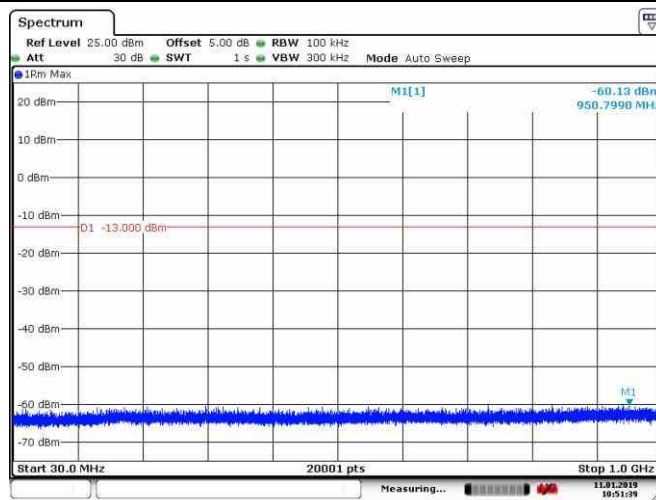
6. Spurious Emission at Antenna Terminal

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 = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

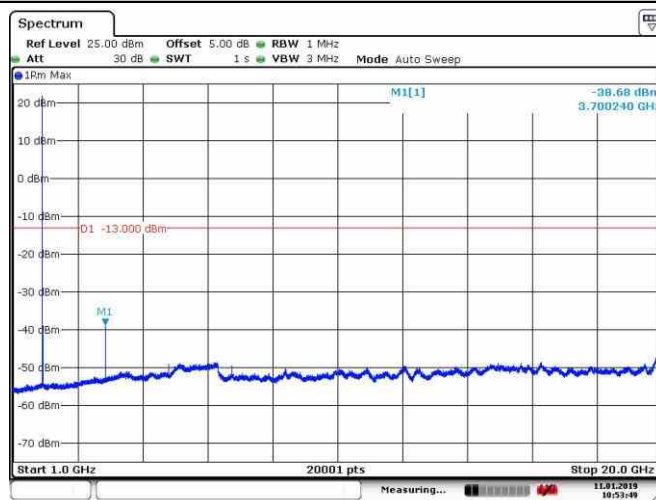
Remark2: only the worst case data displayed in this report.

Test Plots

Band2_20MHz_QPSK_18700_1RB#0

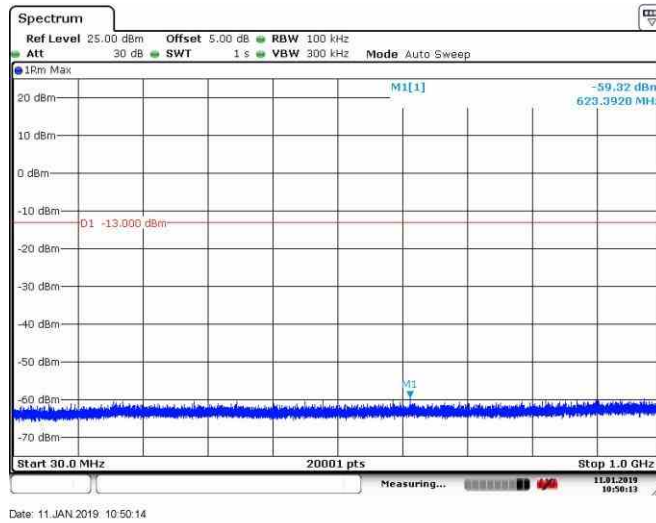


Band2_20MHz_QPSK_18700_1RB#0

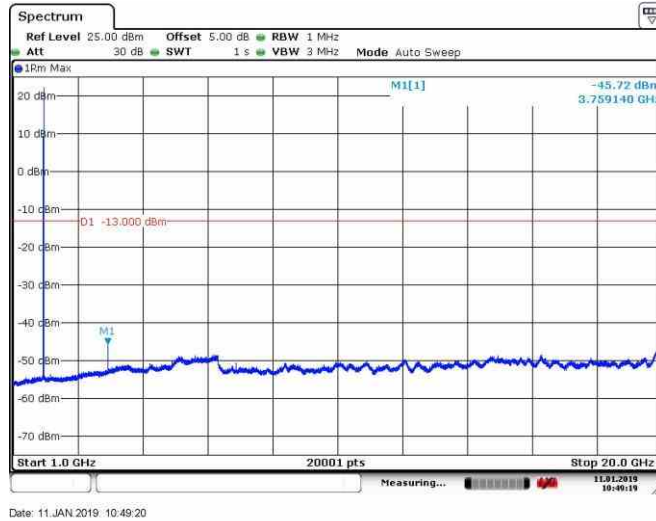


Band2_20MHz_QPSK_18900_1RB#0

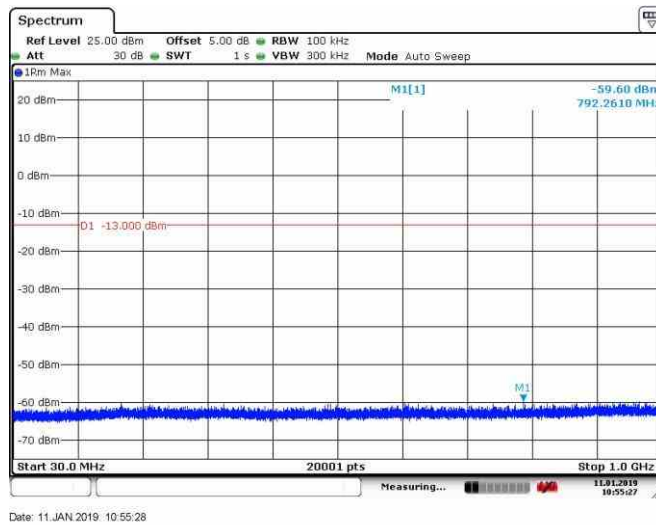
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Band2_20MHz_QPSK_18900_1RB#0

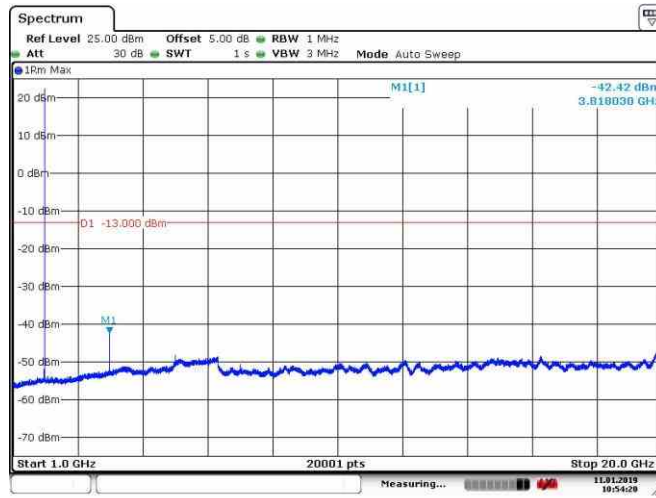


Band2_20MHz_QPSK_19100_1RB#0



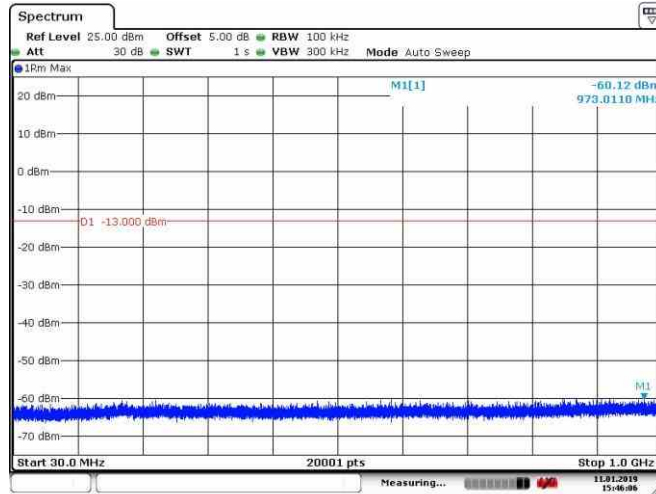
Band2_20MHz_QPSK_19100_1RB#0

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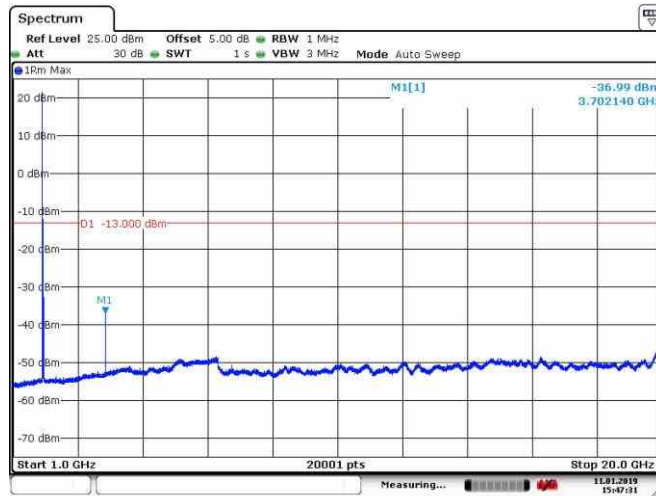
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Band2_20MHz_16QAM_18700_1RB#0



Date: 11.JAN.2019 15:46:07

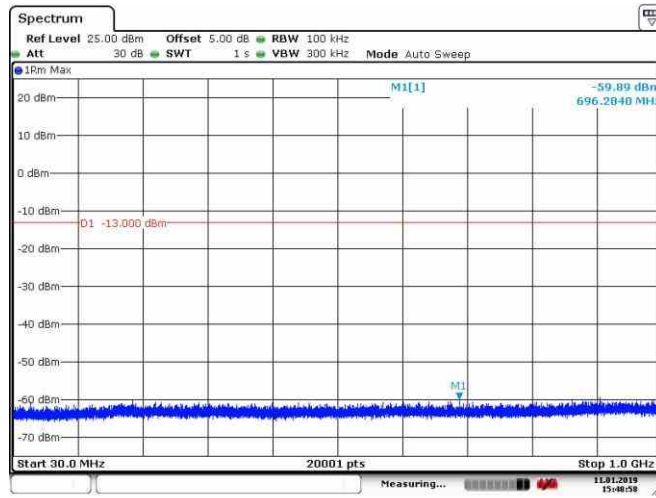
Band2_20MHz_16QAM_18700_1RB#0



Date: 11.JAN.2019 15:47:31

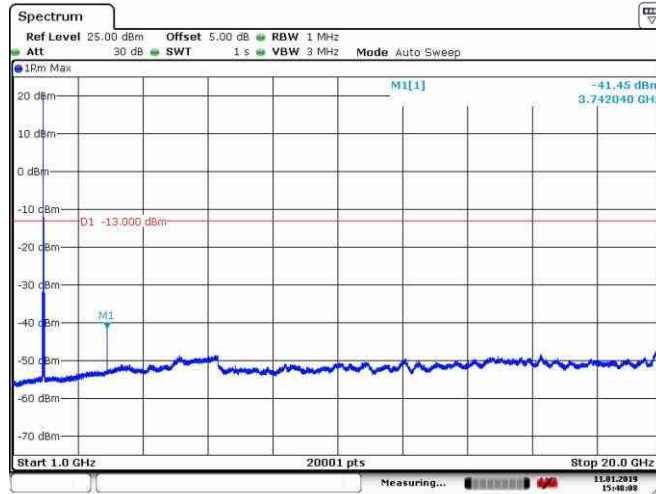
Band2_20MHz_16QAM_18900_1RB#0

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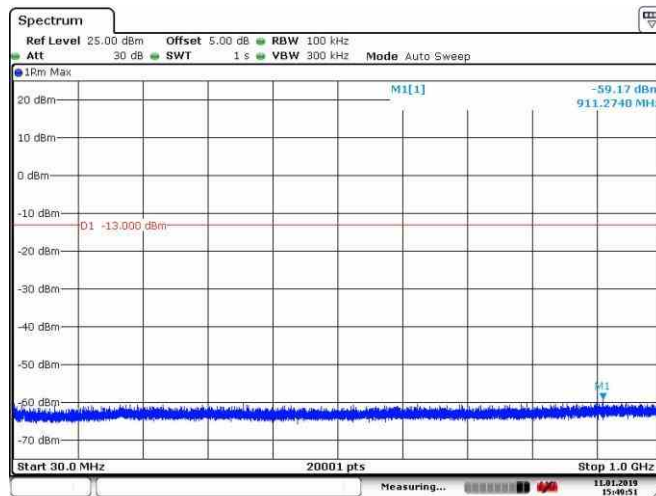
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Band2_20MHz_16QAM_18900_1RB#0



Date: 11.JAN.2019 15:48:08

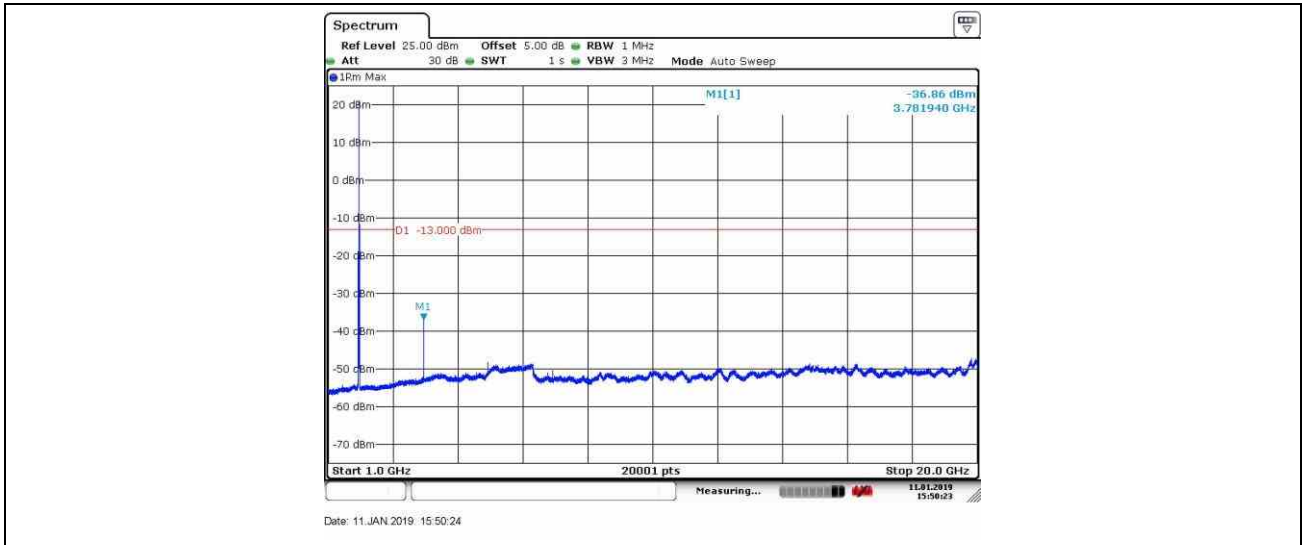
Band2_20MHz_16QAM_19100_1RB#0



Date: 11.JAN.2019 15:49:51

Band2_20MHz_16QAM_19100_1RB#0

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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 2

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.700000	-80.41	-13.00	67.41	Vertical
144.000000	-79.69	-13.00	66.69	Vertical
3702.000000	-54.23	-13.00	41.23	Vertical
5553.200000	-64.53	-13.00	51.53	Vertical
7404.400000	-59.72	-13.00	46.72	Vertical
9255.600000	-56.36	-13.00	43.36	Vertical
63.300000	-77.40	-13.00	64.40	Horizontal
144.000000	-80.12	-13.00	67.12	Horizontal
3702.000000	-55.49	-13.00	42.49	Horizontal
7404.725000	-52.91	-13.00	39.91	Horizontal
9255.275000	-39.20	-13.00	26.20	Horizontal
11106.475000	-54.02	-13.00	41.02	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.550000	-80.21	-13.00	67.21	Vertical
623.983333	-76.48	-13.00	63.48	Vertical
3741.650000	-57.54	-13.00	44.54	Vertical
5613.325000	-65.26	-13.00	52.26	Vertical
7484.350000	-60.00	-13.00	47.00	Vertical
9355.375000	-55.01	-13.00	42.01	Vertical
54.500000	-78.45	-13.00	65.45	Horizontal
144.000000	-80.47	-13.00	67.47	Horizontal
3741.975000	-57.39	-13.00	44.39	Horizontal
7484.675000	-53.94	-13.00	40.94	Horizontal
9355.375000	-40.65	-13.00	27.65	Horizontal
11226.725000	-57.83	-13.00	44.83	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.550000	-80.40	-13.00	67.40	Vertical
144.000000	-78.93	-13.00	65.93	Vertical
3781.950000	-56.97	-13.00	43.97	Vertical
5672.800000	-64.75	-13.00	51.75	Vertical
7564.300000	-60.85	-13.00	47.85	Vertical
9455.475000	-54.75	-13.00	41.75	Vertical
62.350000	-77.77	-13.00	64.77	Horizontal
3782.275000	-58.06	-13.00	45.06	Horizontal
5673.125000	-59.29	-13.00	46.29	Horizontal
7564.300000	-52.64	-13.00	39.64	Horizontal
9455.800000	-40.34	-13.00	27.34	Horizontal
11346.650000	-56.20	-13.00	43.20	Horizontal

Remark:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



8. Frequency Stability

8.1. Frequency Vs Voltage

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	-6.78	-0.003645	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	9.75	0.005243	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	14.45	0.007770	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.56	-0.001892	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-0.05	-0.000027	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	7.36	0.003916	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-10.68	-0.005621	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-10.07	-0.005301	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-5.59	-0.002941	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	3.86	0.002075	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	-1.39	-0.000748	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	0.09	0.000051	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-9.71	-0.005166	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-3.36	-0.001785	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	0.88	0.000469	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-13.24	-0.006966	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-3.82	-0.002013	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-9.75	-0.005132	±2.5	PASS

8.2. Frequency Vs Temperature

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	3.27	0.001756	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	14.56	0.007829	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-6.30	-0.003385	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	-2.65	-0.001425	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	-5.73	-0.003082	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-2.92	-0.001572	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-1.61	-0.000865	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	5.32	0.002858	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	1.38	0.000735	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	4.50	0.002394	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-5.08	-0.002704	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-7.18	-0.003821	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	2.73	0.001451	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	3.27	0.001739	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	12.13	0.006454	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	7.48	0.003978	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-0.28	-0.000148	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	13.19	0.006941	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	9.74	0.005126	±2.5	PASS

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Band2	20MHz	QPSK	19100	100RB#0	NV	10	13.05	0.006866	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-14.72	-0.007748	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	7.35	0.003867	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-13.89	-0.007309	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-3.25	-0.001712	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	10.89	0.005855	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	2.84	0.001526	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	-1.44	-0.000777	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	0.81	0.000434	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	1.28	0.000689	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	-12.38	-0.006657	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	2.10	0.001130	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	9.02	0.004847	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	14.51	0.007717	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-14.43	-0.007678	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	0.42	0.000224	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-2.93	-0.001561	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-1.91	-0.001017	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	11.47	0.006102	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-6.39	-0.003401	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-4.63	-0.002464	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-7.46	-0.003927	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-14.39	-0.007572	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	11.29	0.005941	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	10.86	0.005717	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-7.95	-0.004183	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	5.24	0.002756	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	13.46	0.007083	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	2.59	0.001362	±2.5	PASS

The End

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