



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	25.42	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.41	25.46	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.21	25.26	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.33	25.38	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.42	25.47	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.10	25.15	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.35	24.40	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.28	25.33	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.62	25.67	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.15	25.20	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.17	25.22	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.50	25.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.14	25.19	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.40	24.45	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.27	25.32	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.38	25.43	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.16	25.21	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.08	25.13	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.45	25.50	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.05	25.10	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.25	24.30	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.82	24.87	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.84	24.89	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.57	24.62	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.64	24.69	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.65	24.70	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.64	24.69	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.34	23.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.65	24.70	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.83	24.88	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.57	24.62	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.65	24.70	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.73	24.78	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.62	24.67	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.33	23.38	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.69	24.74	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.85	24.90	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.67	24.72	30.00	PASS



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Band4	1.4MHz	16QAM	20393	3RB#3	22.73	24.78	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.65	24.70	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.65	24.70	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.24	23.29	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.35	25.40	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.50	25.55	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.27	25.32	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.42	24.47	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.45	24.50	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.53	24.58	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.46	24.51	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.19	25.24	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.62	25.67	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.13	25.18	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.32	24.37	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.36	24.41	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.50	24.55	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.38	24.43	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.17	25.22	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.56	25.61	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.13	25.18	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.25	24.30	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.32	24.37	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.30	24.35	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.32	24.37	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.81	24.86	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.76	24.81	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.69	24.74	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.50	23.55	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.45	23.50	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.37	23.42	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.51	23.56	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.81	24.86	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.83	24.88	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.62	24.67	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.37	23.42	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.39	23.44	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.38	23.43	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.45	23.50	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.84	24.89	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.69	24.74	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.65	24.70	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.24	23.29	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.31	23.36	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.30	23.35	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.36	23.41	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.43	25.48	30.00	PASS



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Shenzhen Branch (SGS-CSTC Laboratory)

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Band4	5MHz	QPSK	19975	1RB#12	23.60	25.65	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.28	25.33	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.46	24.51	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.46	24.51	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.56	24.61	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.53	24.58	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.36	25.41	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.63	25.68	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.26	25.31	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.46	24.51	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.50	24.55	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.57	24.62	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.48	24.53	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.35	25.40	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.54	25.59	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.32	25.37	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.39	24.44	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.43	24.48	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.41	24.46	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.39	24.44	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.87	24.92	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.84	24.89	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.78	24.83	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.61	23.66	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.56	23.61	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.49	23.54	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.49	23.54	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.80	24.85	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.79	24.84	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.71	24.76	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.43	23.48	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.48	23.53	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.52	23.57	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.50	23.55	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.83	24.88	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.69	24.74	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.67	24.72	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.36	23.41	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.44	23.49	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.41	23.46	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.37	23.42	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.33	25.38	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.51	25.56	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.10	25.15	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.38	24.43	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.26	24.31	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.33	24.38	30.00	PASS



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Band4	10MHz	QPSK	20000	50RB#0	22.24	24.29	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.16	25.21	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.50	25.55	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.14	25.19	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.25	24.30	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.36	24.41	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.46	24.51	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.36	24.41	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.08	25.13	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.43	25.48	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.05	25.10	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.16	24.21	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.25	24.30	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.29	24.34	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.22	24.27	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.66	24.71	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.87	24.92	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.59	24.64	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.36	23.41	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.33	23.38	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.32	23.37	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.41	23.46	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.75	24.80	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.83	24.88	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.49	24.54	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.24	23.29	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.27	23.32	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.44	23.49	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.41	23.46	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.68	24.73	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.81	24.86	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.54	24.59	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.21	23.26	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.31	23.36	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.17	23.22	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.26	23.31	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.28	25.33	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.59	25.64	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.25	25.30	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.40	24.45	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.38	24.43	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.43	24.48	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.34	24.39	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.25	25.30	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.60	25.65	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.13	25.18	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.39	24.44	30.00	PASS



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Band4	15MHz	QPSK	20175	36RB#39	22.40	24.45	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.49	24.54	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.43	24.48	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.18	25.23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.51	25.56	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.23	25.28	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.20	24.25	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.29	24.34	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.29	24.34	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.31	24.36	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.81	24.86	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.81	24.86	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.64	24.69	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.46	23.51	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.47	23.52	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.40	23.45	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.45	23.50	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.68	24.73	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.83	24.88	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.60	24.65	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.39	23.44	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.44	23.49	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.47	23.52	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.41	23.46	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.76	24.81	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.75	24.80	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.64	24.69	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.27	23.32	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.28	23.33	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.29	23.34	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.30	23.35	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.47	25.52	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.70	25.75	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.37	25.42	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.56	24.61	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.55	24.60	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.58	24.63	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.54	24.59	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.38	25.43	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.73	25.78	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.32	25.37	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.50	24.55	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.52	24.57	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.60	24.65	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.54	24.59	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.37	25.42	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.61	25.66	30.00	PASS



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Band4	20MHz	QPSK	20300	1RB#99	23.33	25.38	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.40	24.45	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.46	24.51	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.48	24.53	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.46	24.51	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.83	24.88	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.78	24.83	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.83	24.88	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.62	23.67	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.59	23.64	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.53	23.58	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.56	23.61	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.77	24.82	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.69	24.74	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.74	24.79	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.53	23.58	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.54	23.59	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.57	23.62	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.56	23.61	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.82	24.87	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.73	24.78	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.77	24.82	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.40	23.45	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.45	23.50	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.45	23.50	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.45	23.50	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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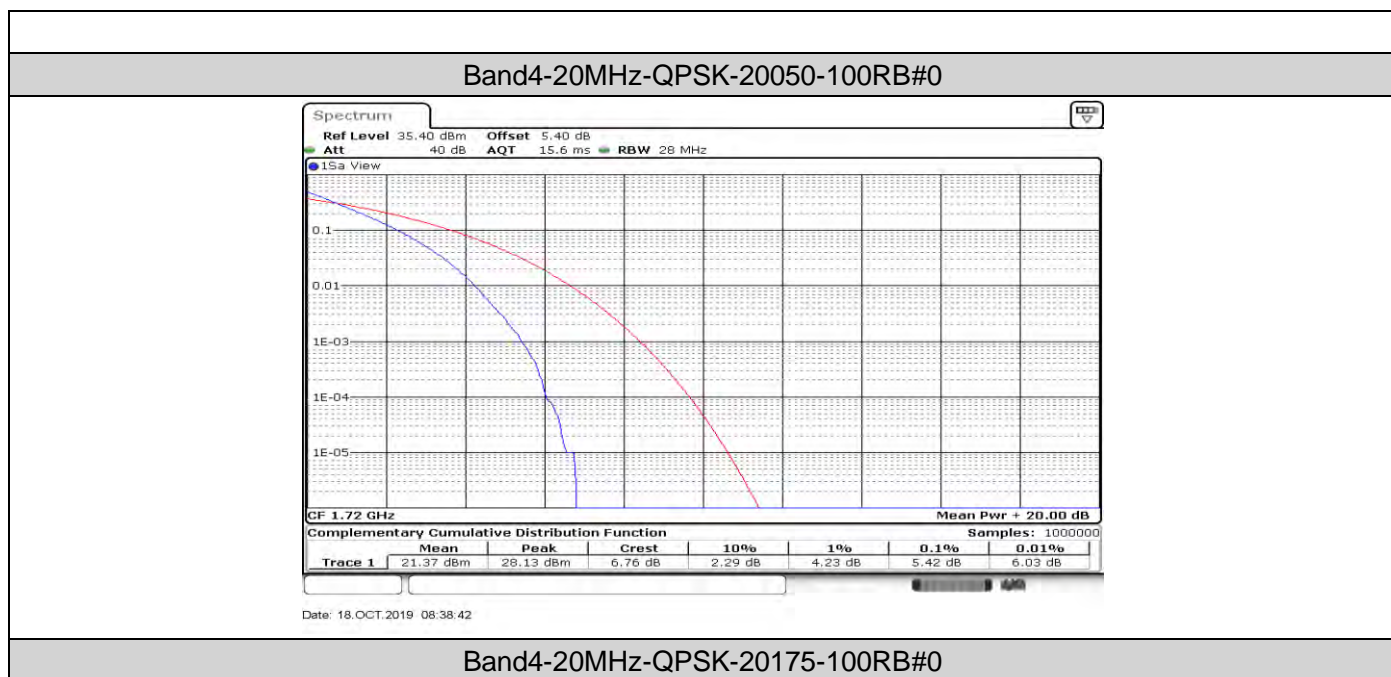


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.54	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.48	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.09	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.23	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.17	13	PASS

2.2. Test Plots





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



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





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

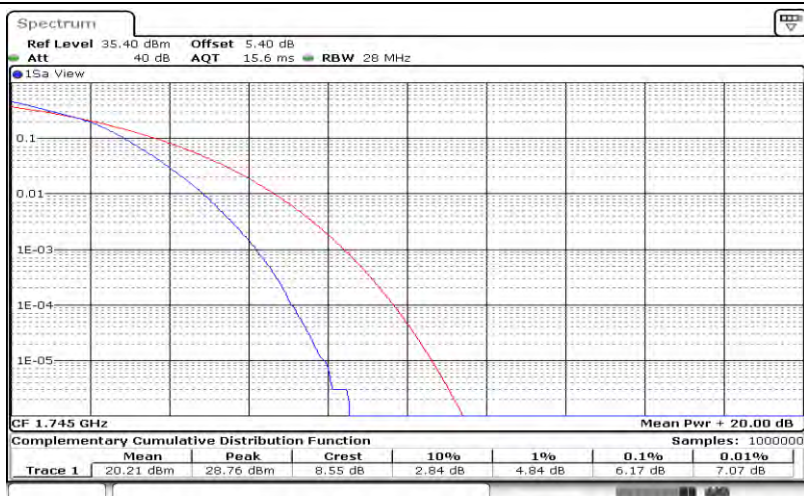


Band4-20MHz-16QAM-20300-100RB#0



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Date: 18.OCT.2019 08:39:40

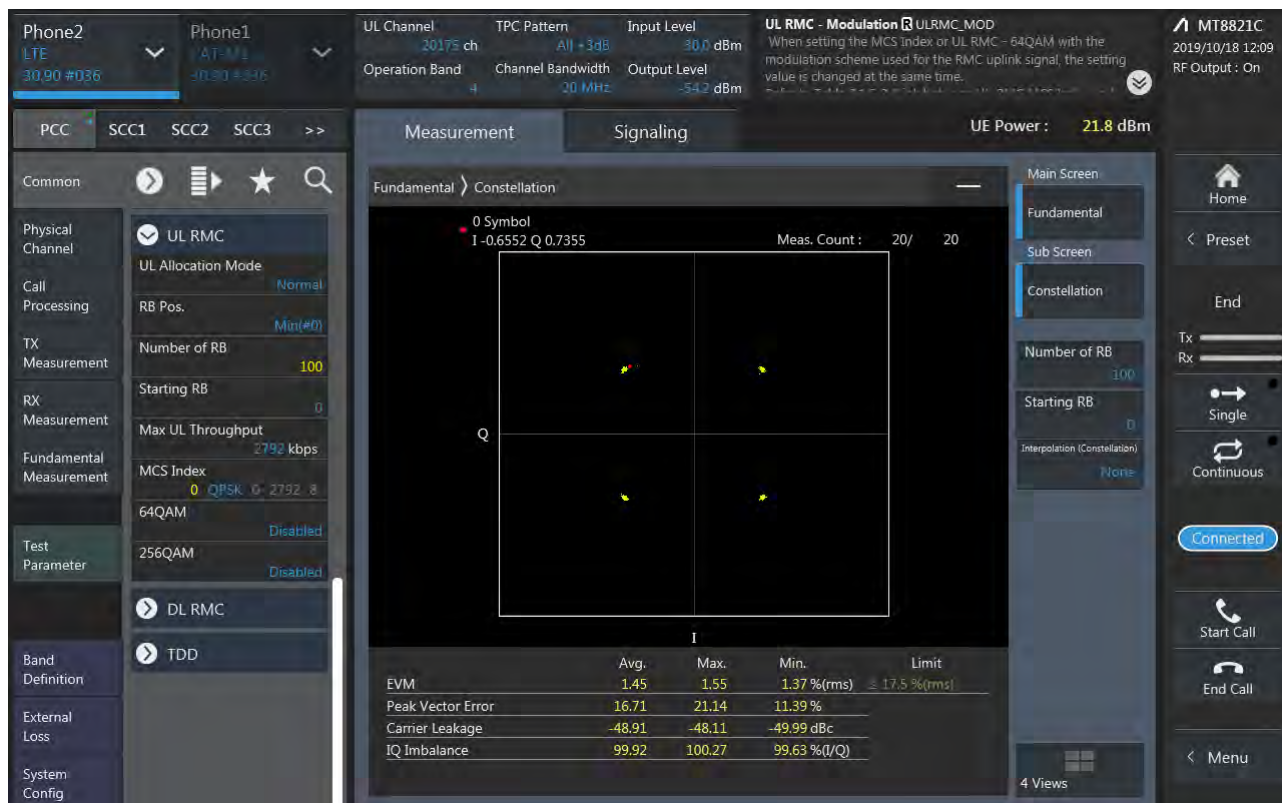




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

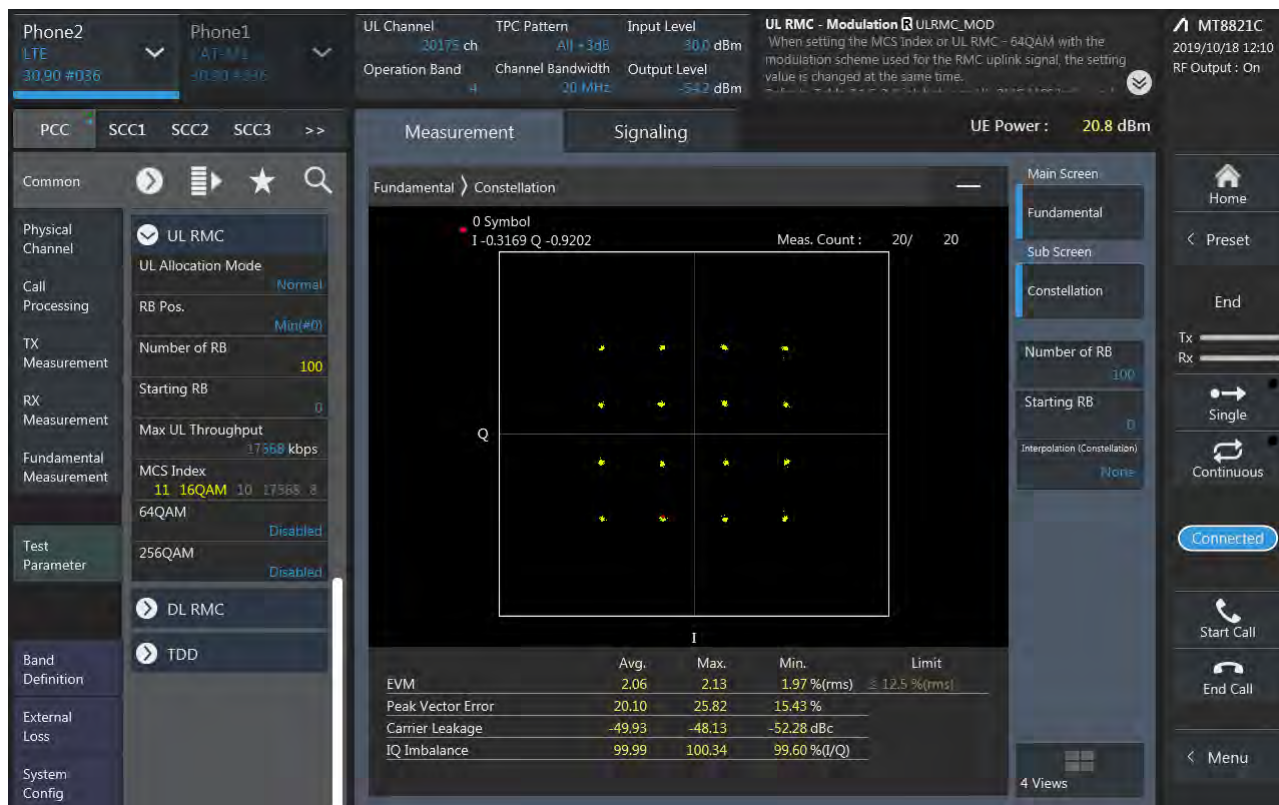
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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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	1.088	1.290	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.094	1.290	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.299	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.293	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.085	1.299	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.928	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.928	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	2.934	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.898	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.673	2.898	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.673	2.910	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.850	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.860	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.800	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.840	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.860	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.870	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.640	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.640	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.560	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.620	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.951	9.680	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.680	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.520	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.730	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.487	14.760	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.487	15.420	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.487	14.610	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	15.210	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.200	PASS



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Band4	20MHz	QPSK	20175	100RB#0	17.902	19.360	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.320	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.942	19.360	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.320	PASS

4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Date: 18.OCT.2019 08:09:34

Band4-1.4MHz-QPSK-20175-6RB#0-1.094



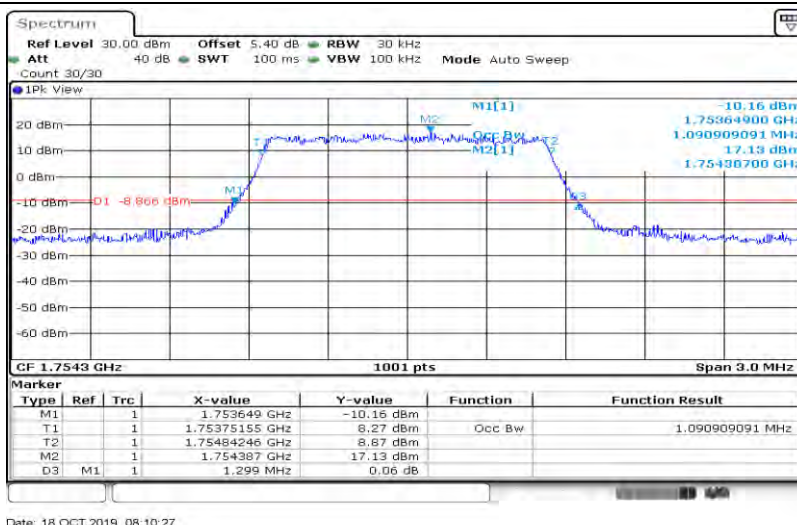
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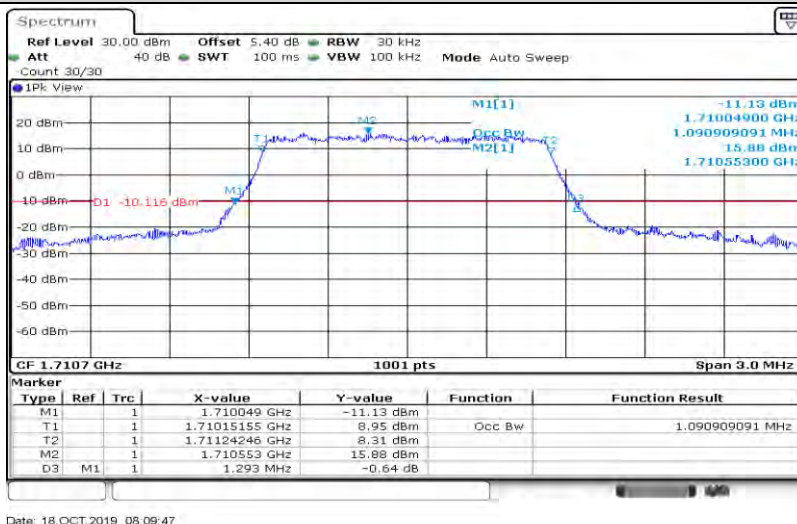


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Band4-1.4MHz-16QAM-19957-6RB#0-1.091

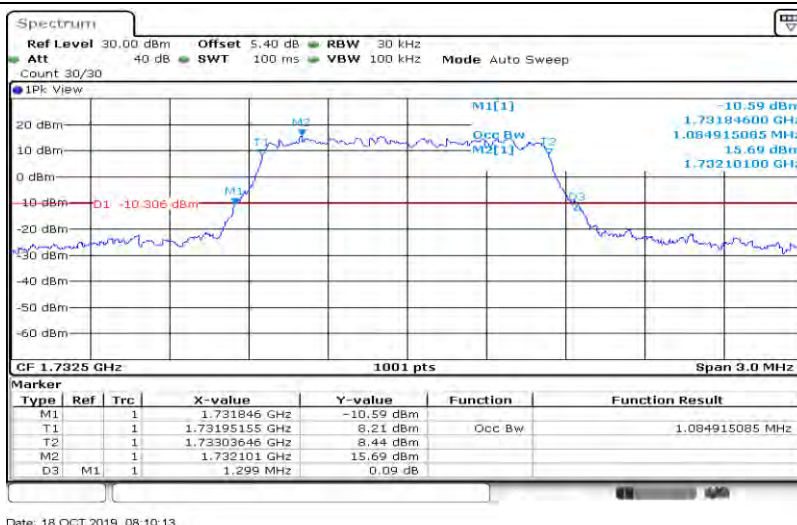


Band4-1.4MHz-16QAM-20175-6RB#0-1.085



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Band4-1.4MHz-16QAM-20393-6RB#0-1.091

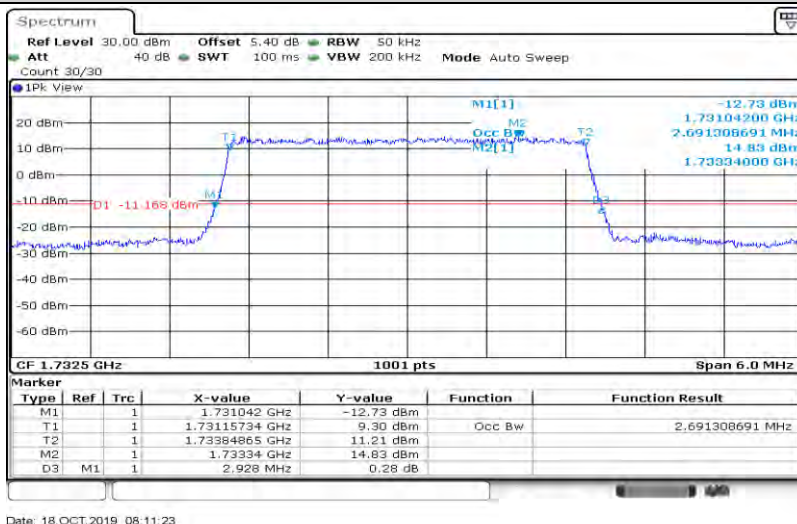


Band4-3MHz-QPSK-19965-15RB#0-2.691





Band4-3MHz-QPSK-20175-15RB#0-2.691



Band4-3MHz-QPSK-20385-15RB#0-2.685



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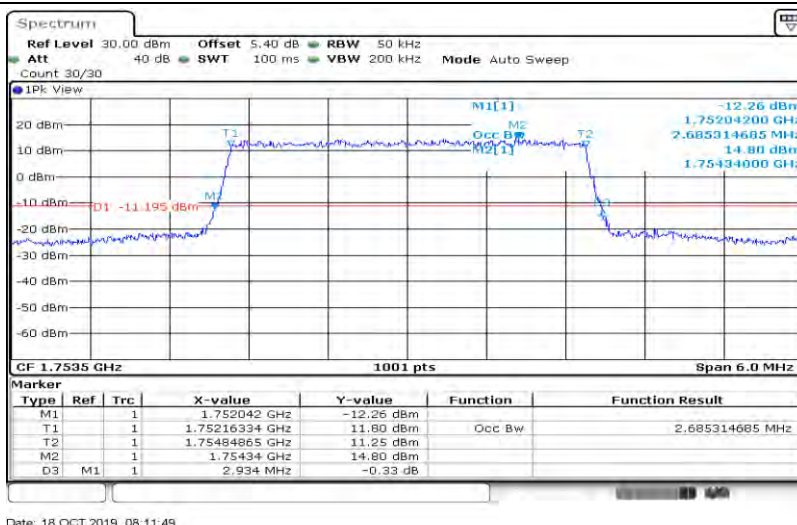
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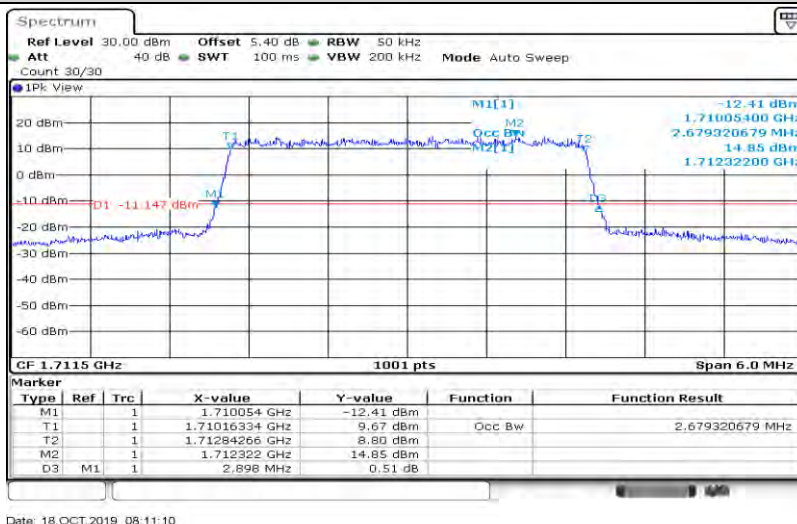
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Band4-3MHz-16QAM-19965-15RB#0-2.679

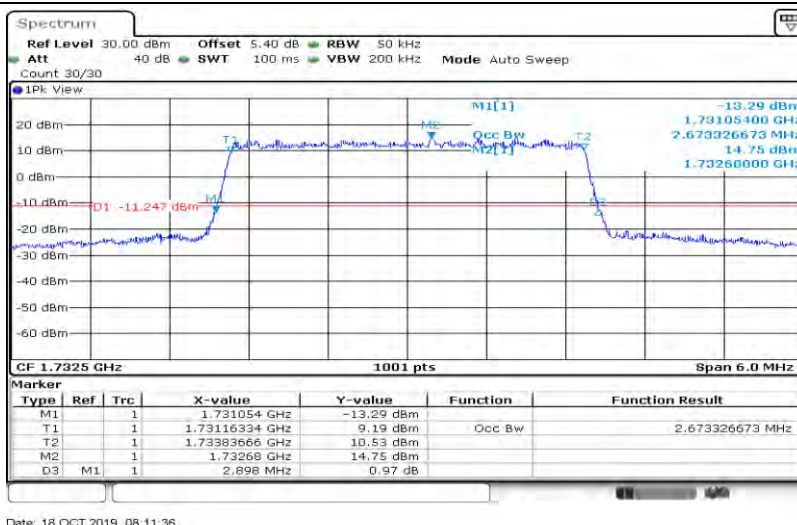


Band4-3MHz-16QAM-20175-15RB#0-2.673

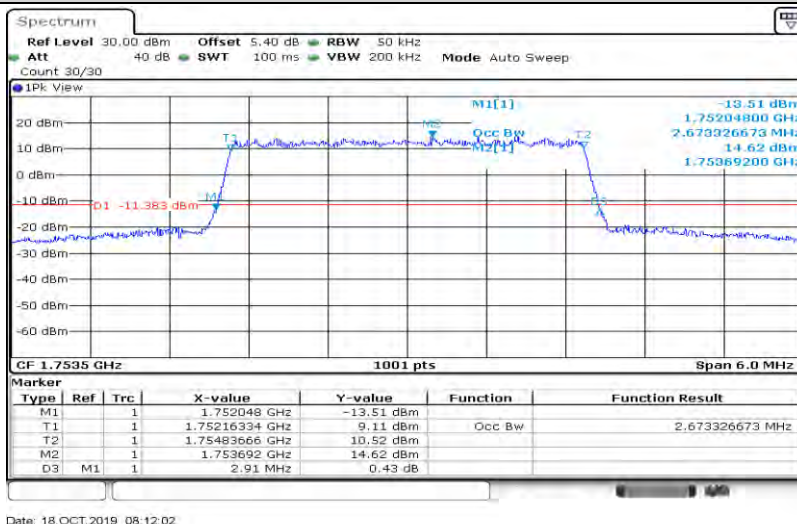


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Band4-3MHz-16QAM-20385-15RB#0-2.673

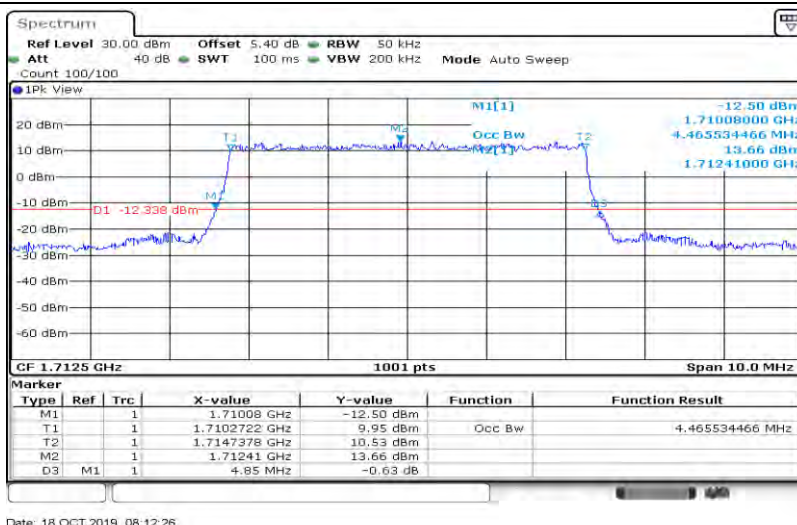


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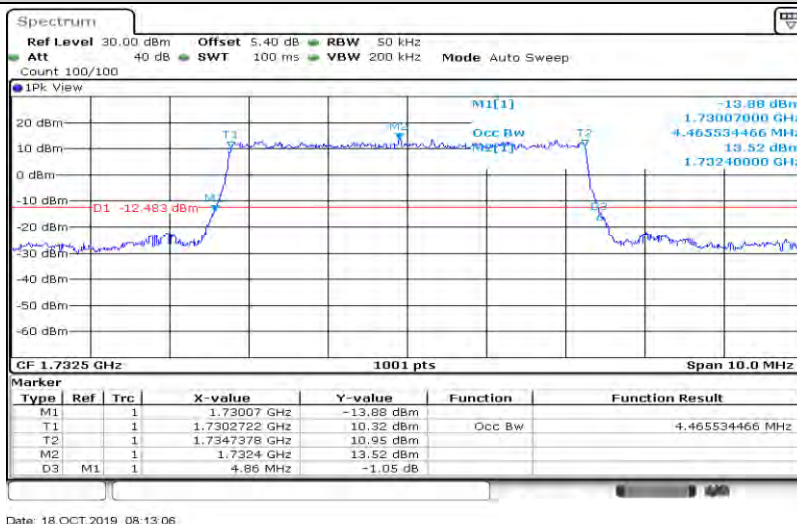


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Band4-5MHz-QPSK-20175-25RB#0-4.466

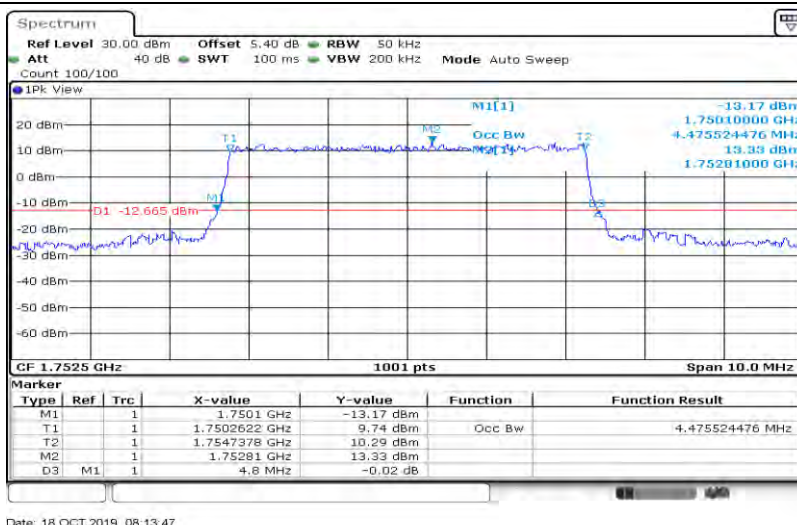


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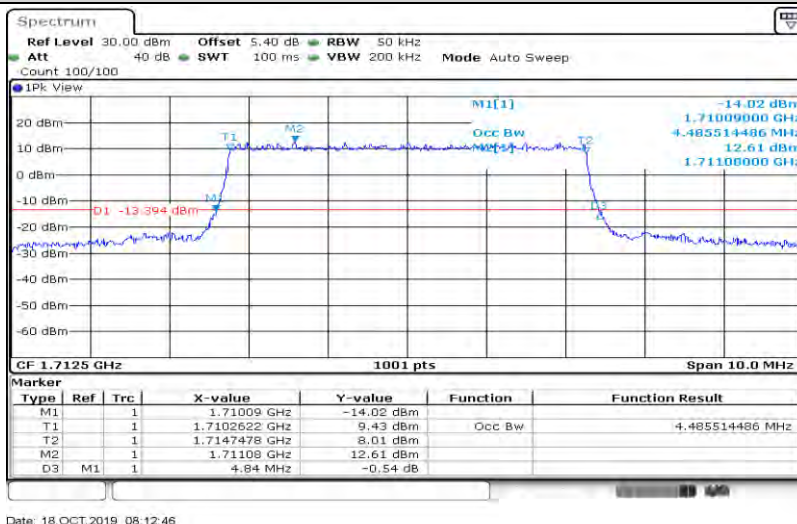
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Date: 18.OCT.2019 08:13:47

Band4-5MHz-16QAM-19975-25RB#0-4.486



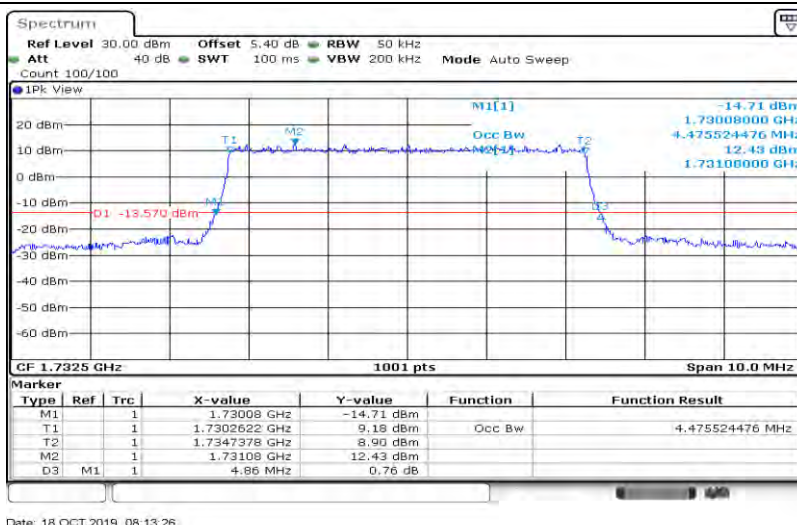
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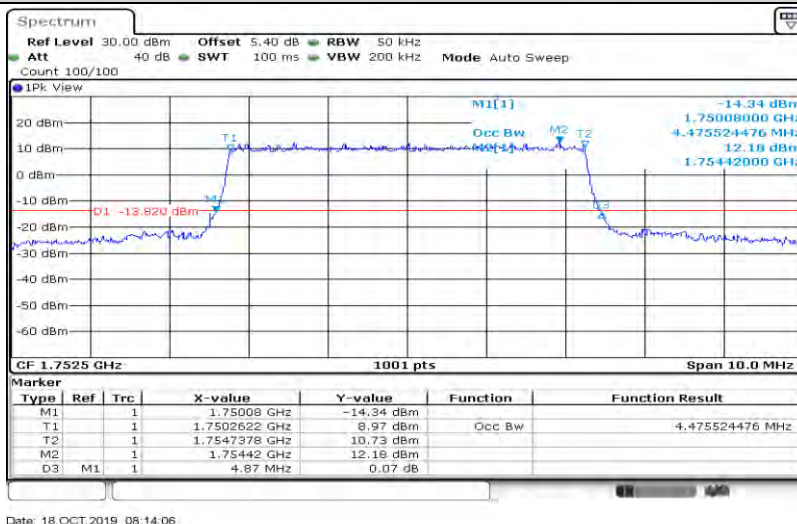


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Band4-5MHz-16QAM-20375-25RB#0-4.476

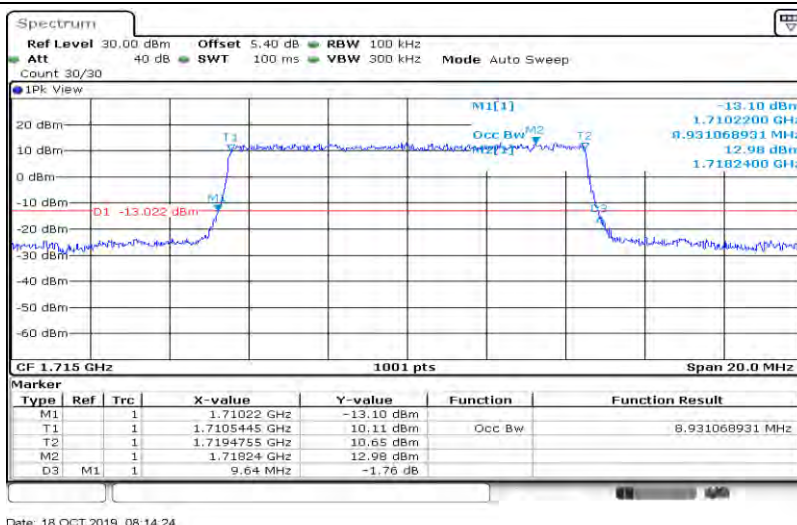


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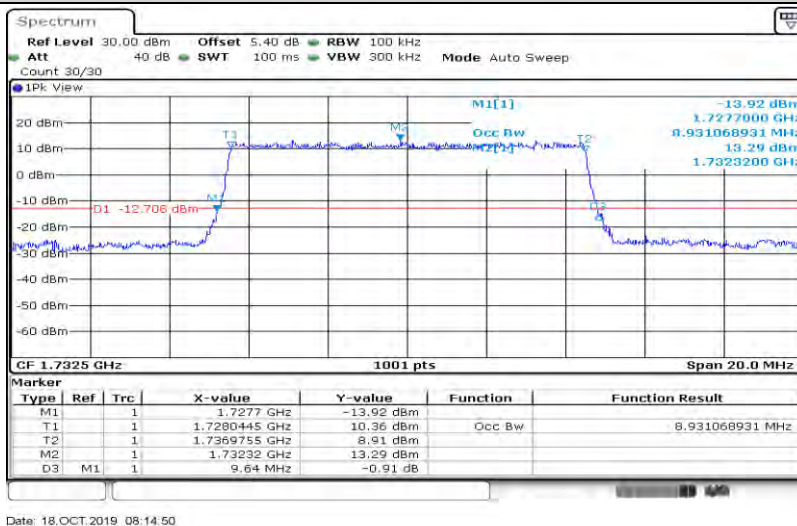


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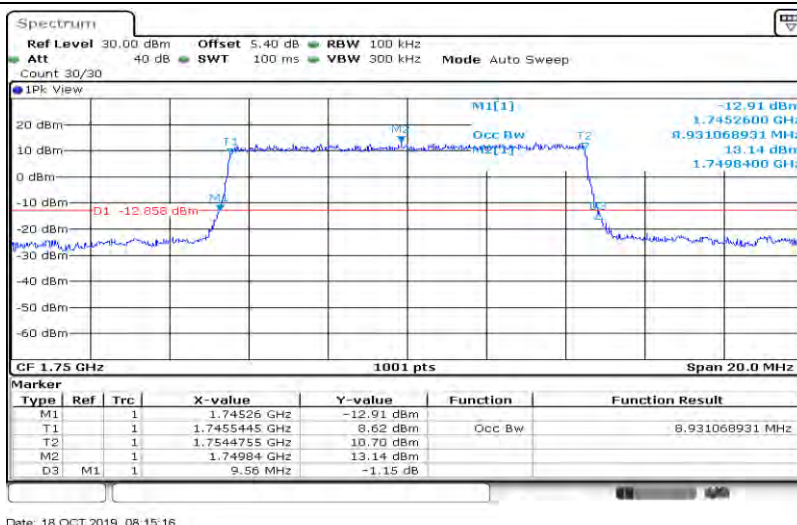
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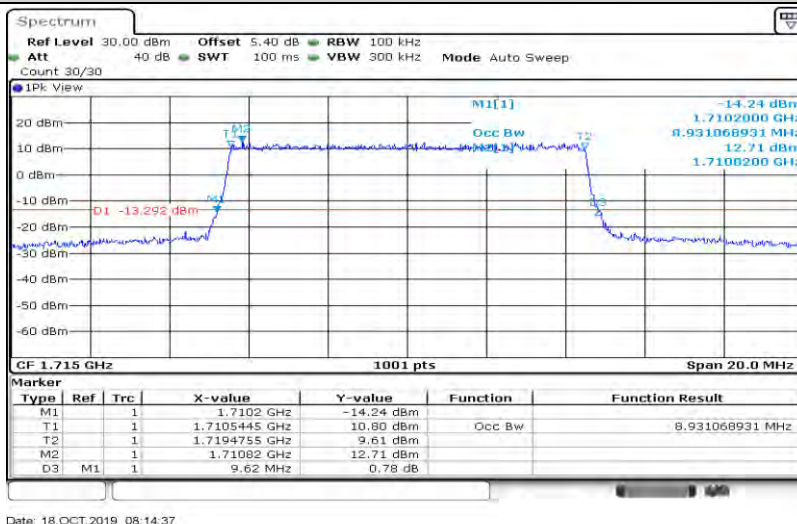
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Band4-10MHz-QPSK-20350-50RB#0-8.931



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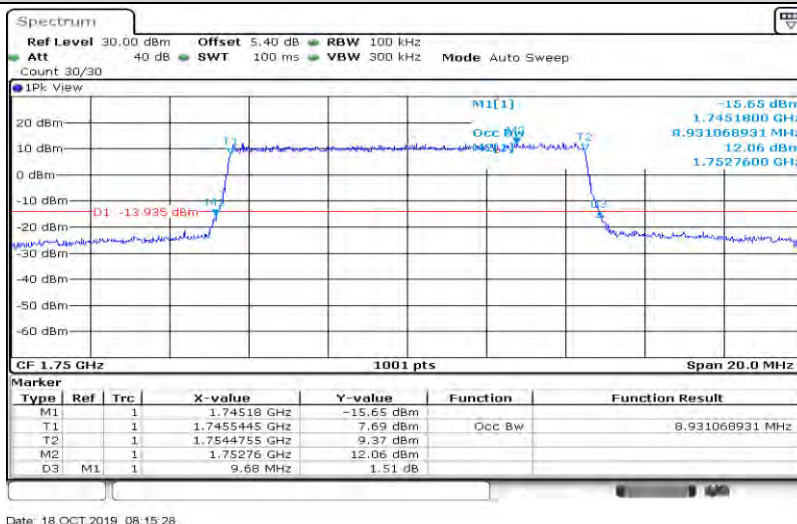
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Band4-10MHz-16QAM-20350-50RB#0-8.931

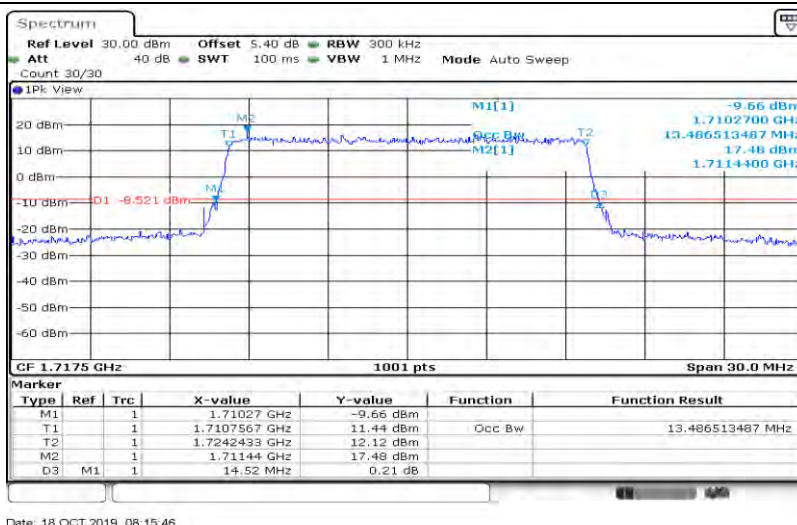


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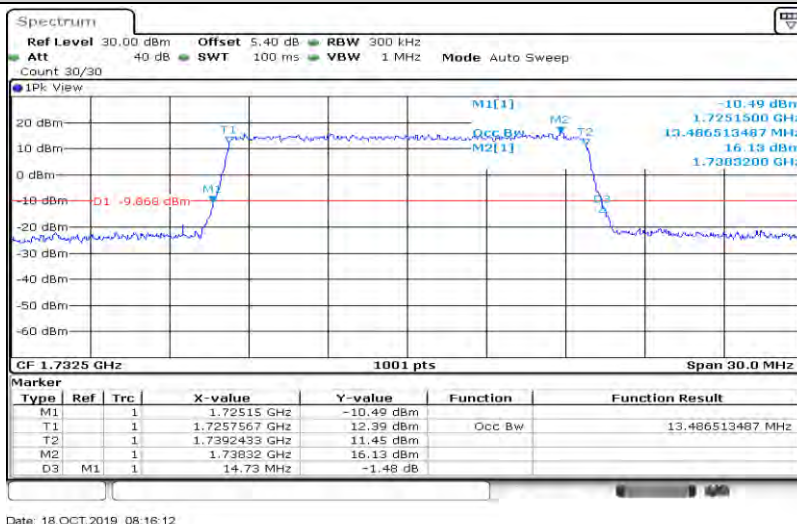


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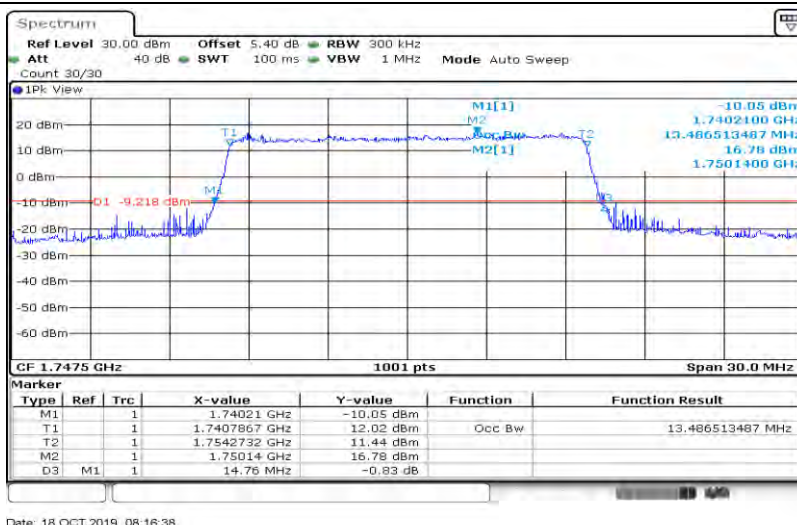


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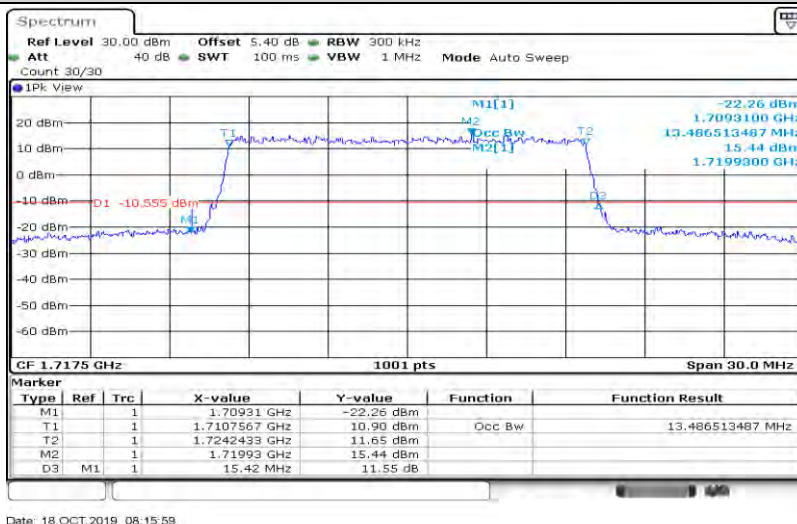


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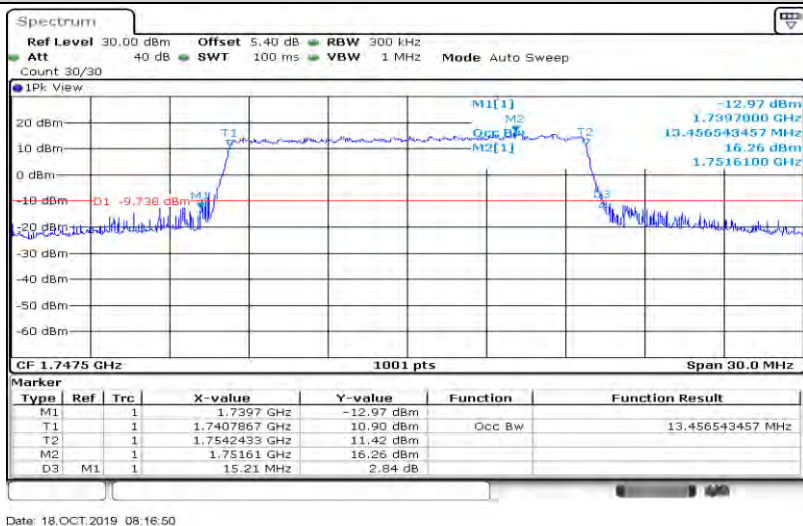


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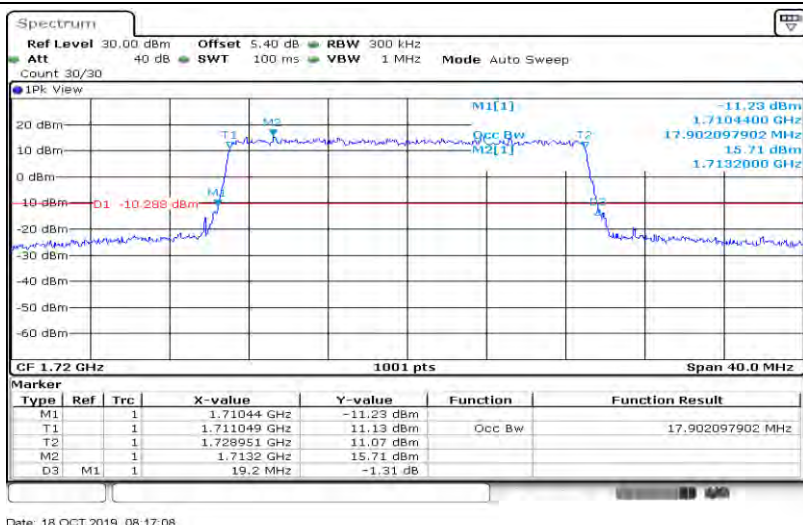


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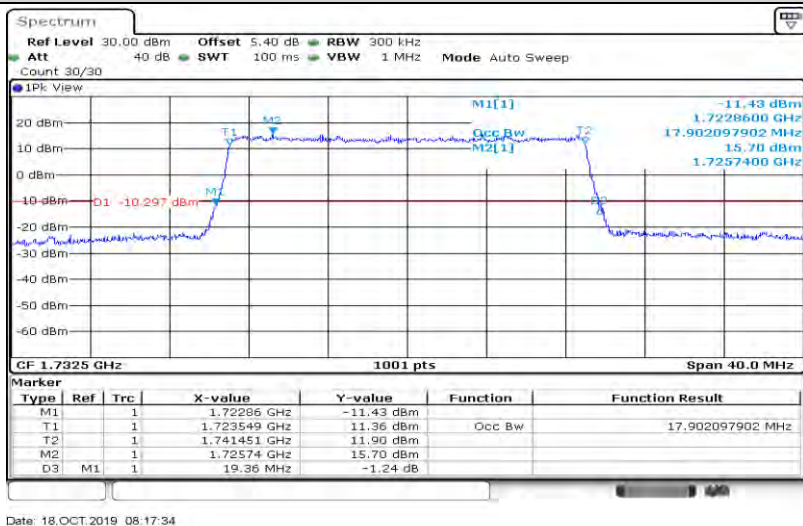


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Band4-20MHz-QPSK-20175-100RB#0-17.902



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



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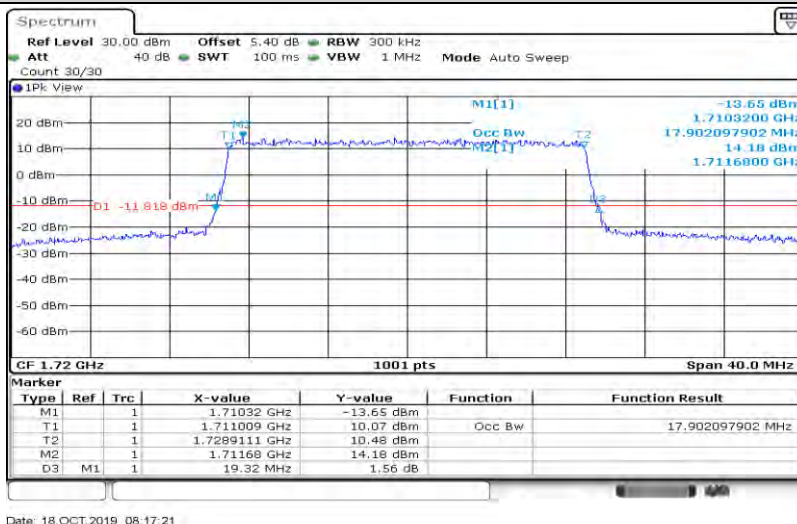
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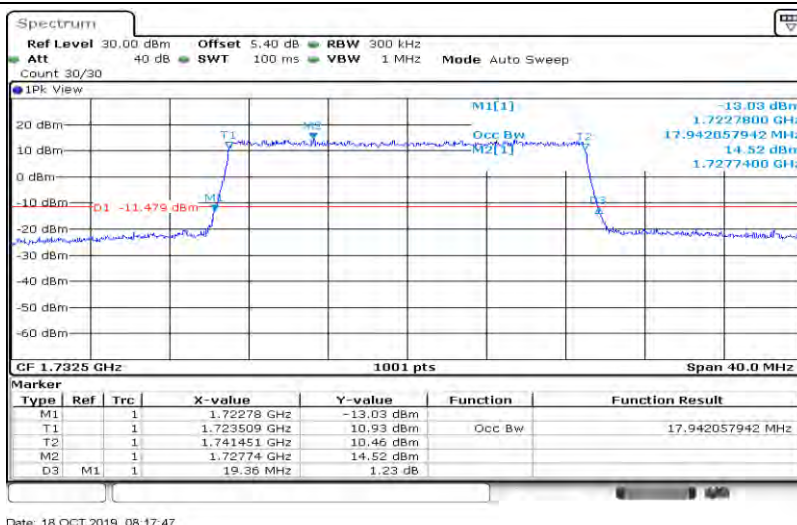


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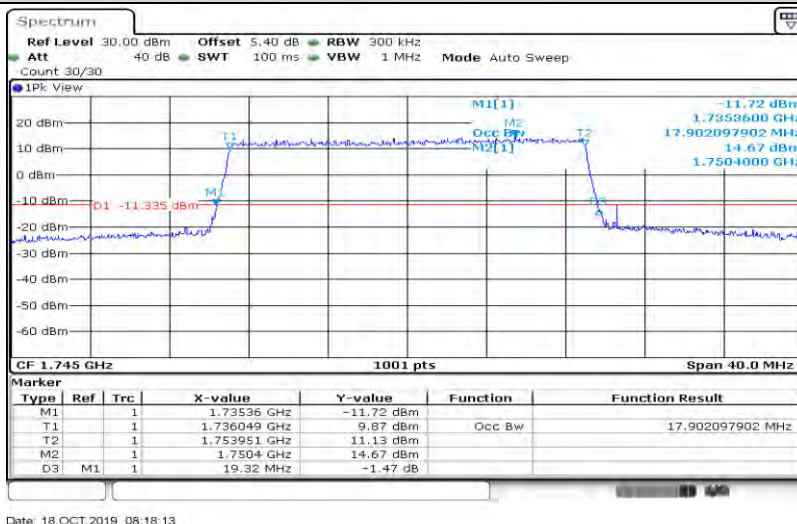


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5. Band Edge Compliance

5.1. Test Plots

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

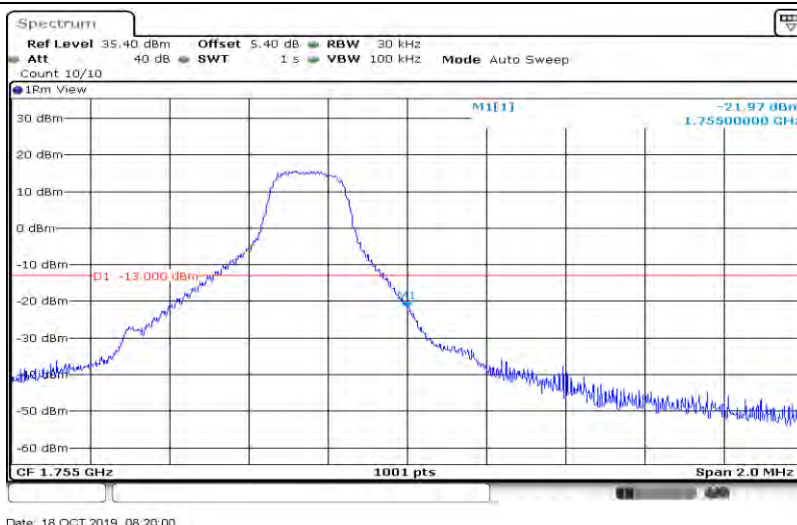


Band4-1.4MHz-QPSK-19957-6RB#0



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





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

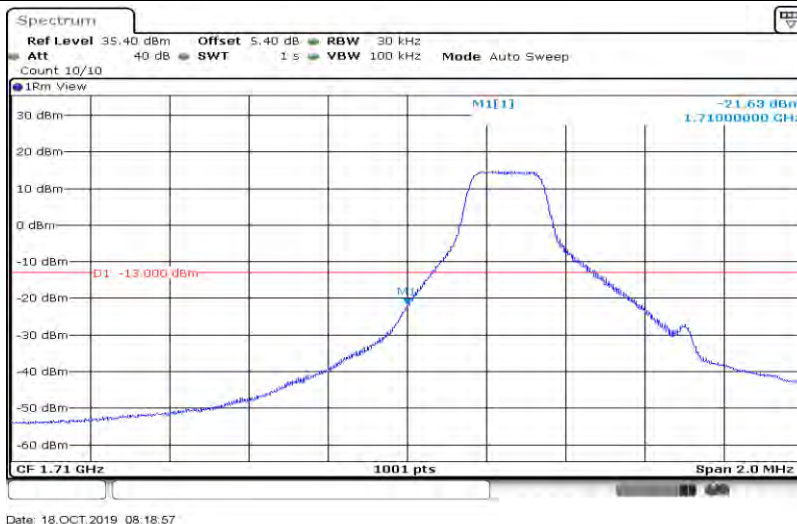


Band4-1.4MHz-16QAM-19957-1RB#0



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



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



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



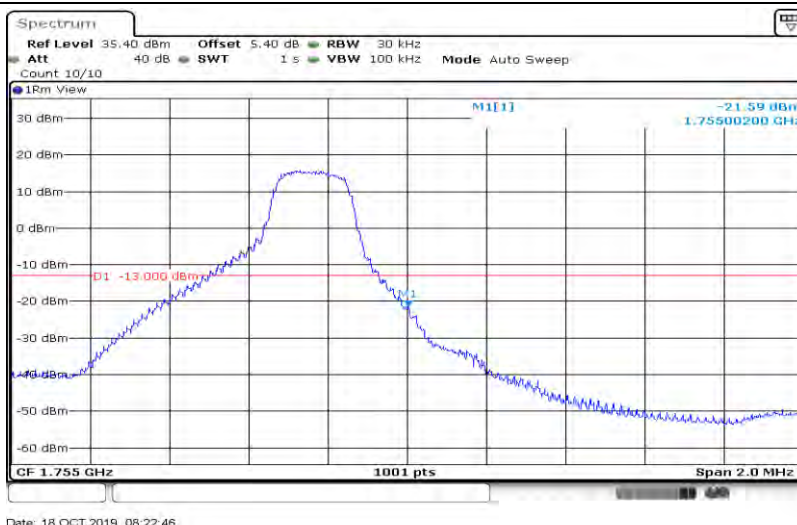


Band4-3MHz-QPSK-19965-15RB#0



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





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



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



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

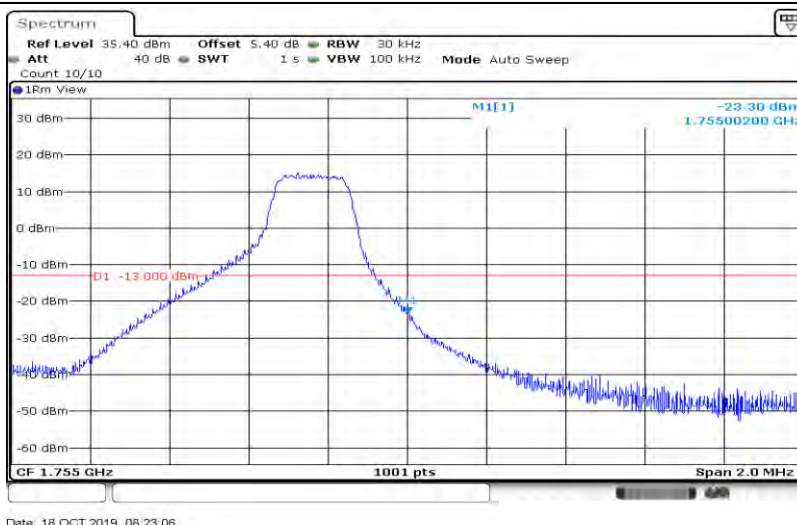


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Band4-3MHz-16QAM-20385-15RB#0



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



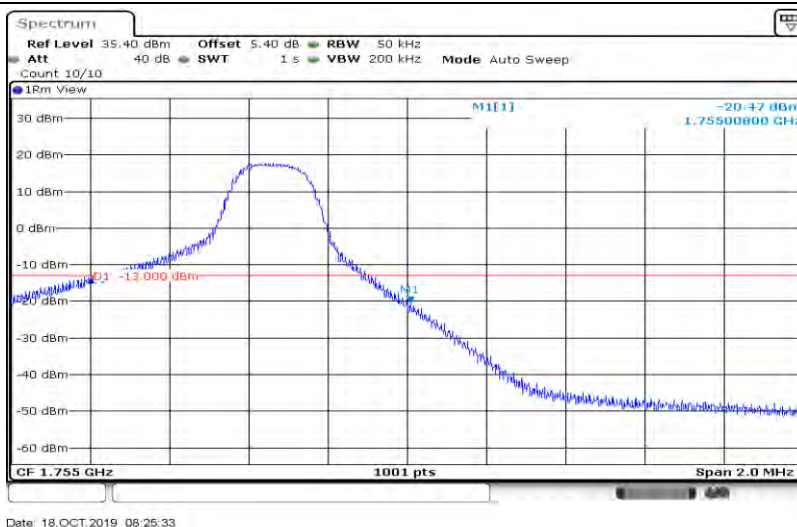


Band4-5MHz-QPSK-19975-25RB#0



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





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



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





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



Band4-5MHz-16QAM-20375-1RB#24



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



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



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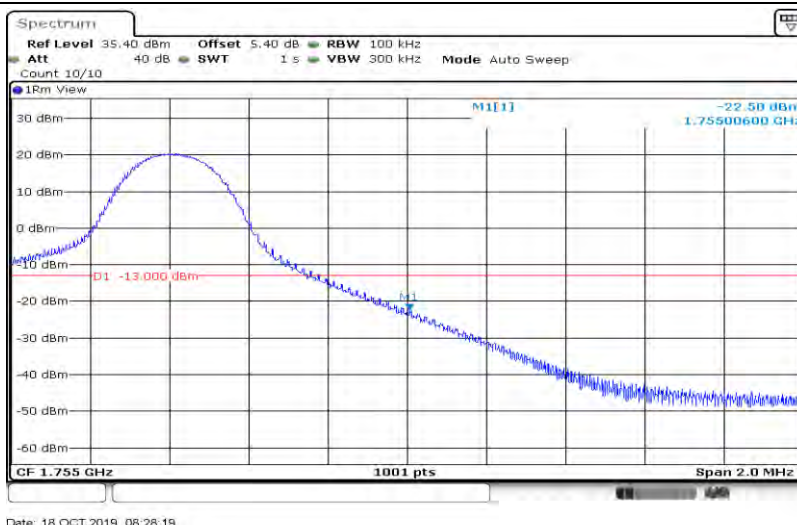


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Band4-10MHz-16QAM-20000-50RB#0



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Date: 18.OCT.2019 08:28:38

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



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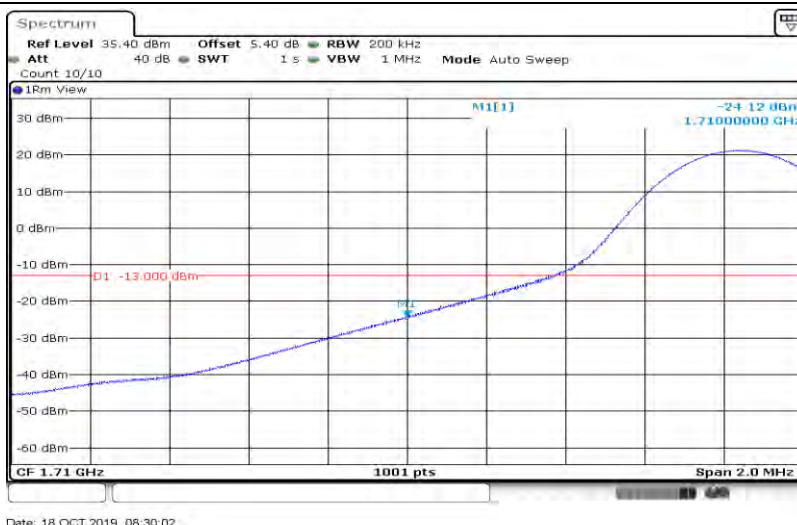
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Band4-15MHz-16QAM-20025-75RB#0



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



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



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



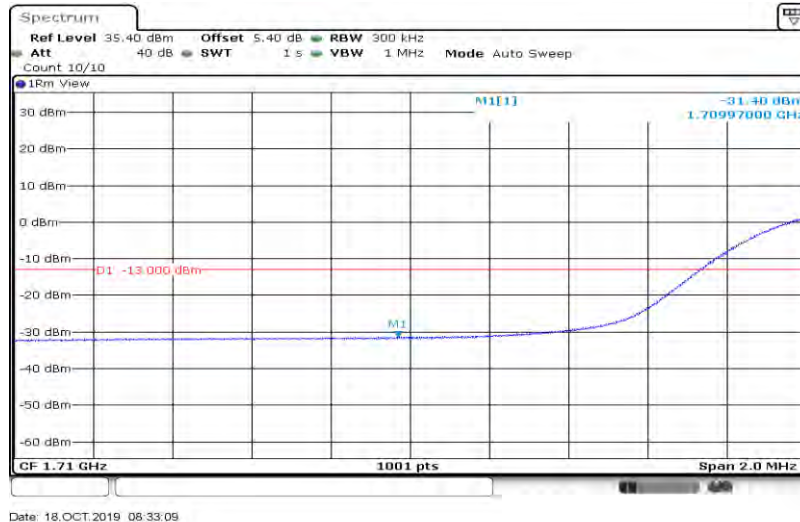
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Band4-20MHz-QPSK-20050-100RB#0



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



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



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



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



Band4-20MHz-16QAM-20300-1RB#99





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



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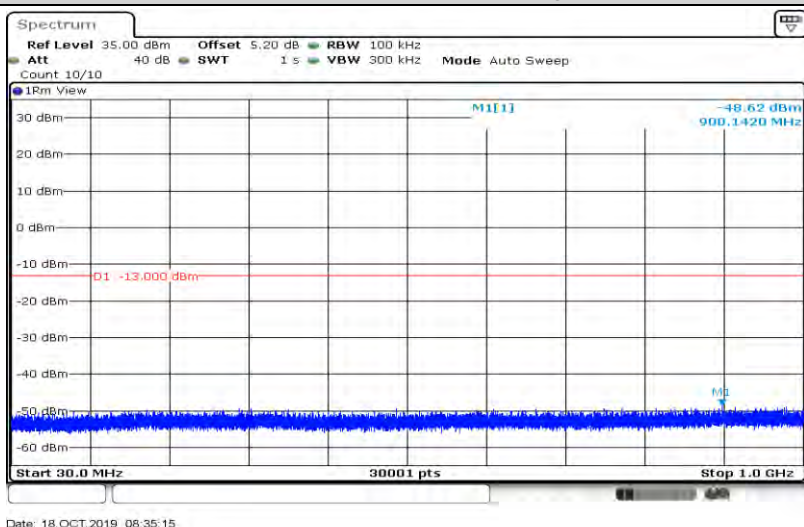
6. Spurious Emission at Antenna Terminal

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.

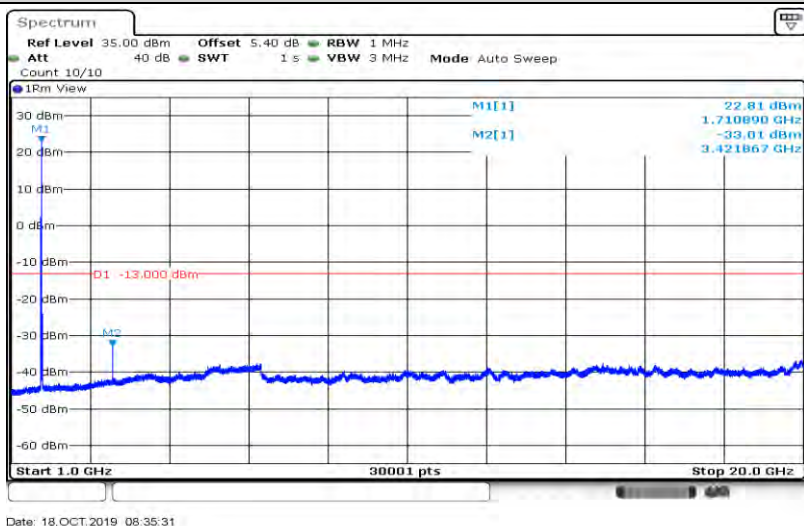
6.1. Test Plots

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



Date: 18.OCT.2019 08:35:15

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



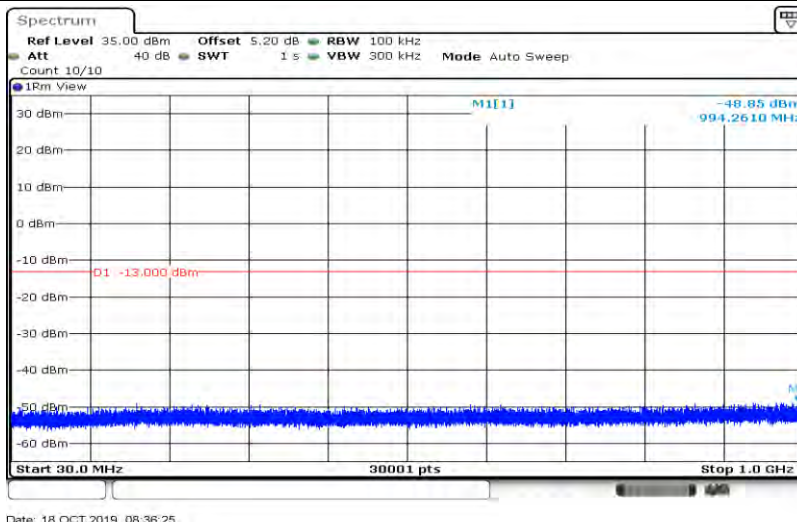
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Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz

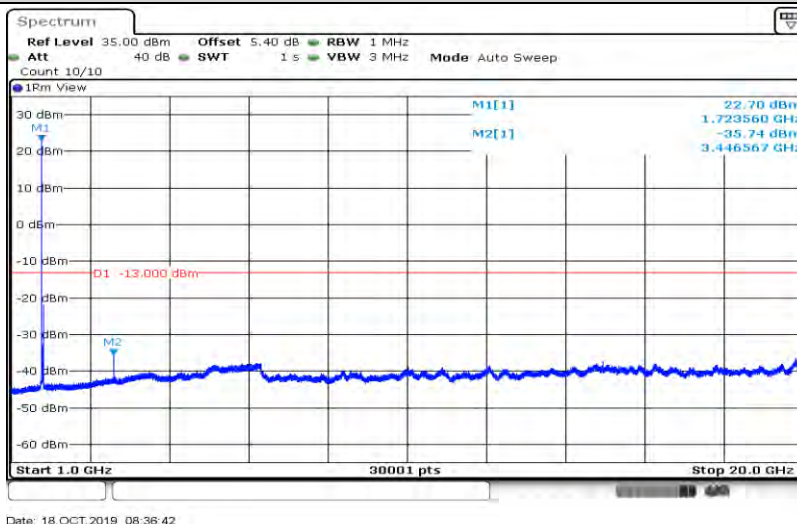


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Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

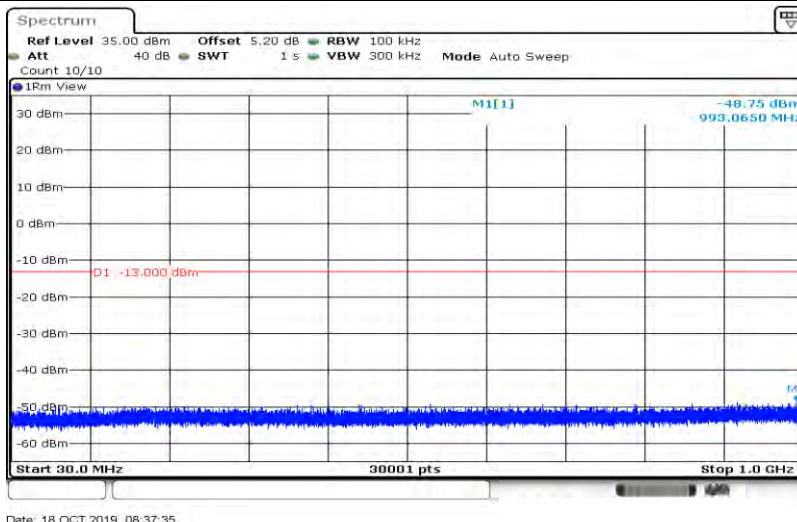


Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz

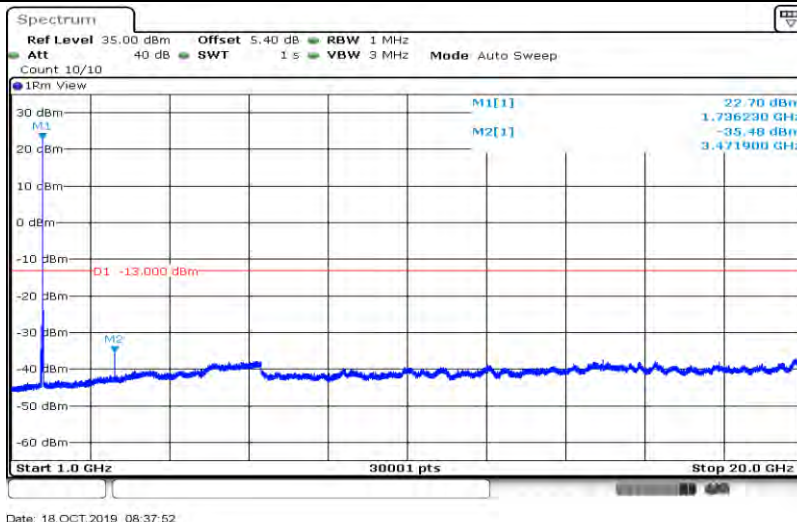


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Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

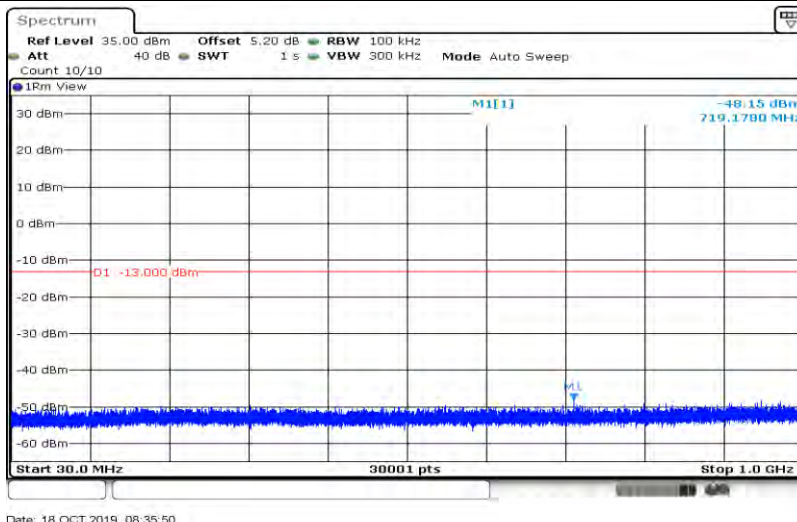


Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz

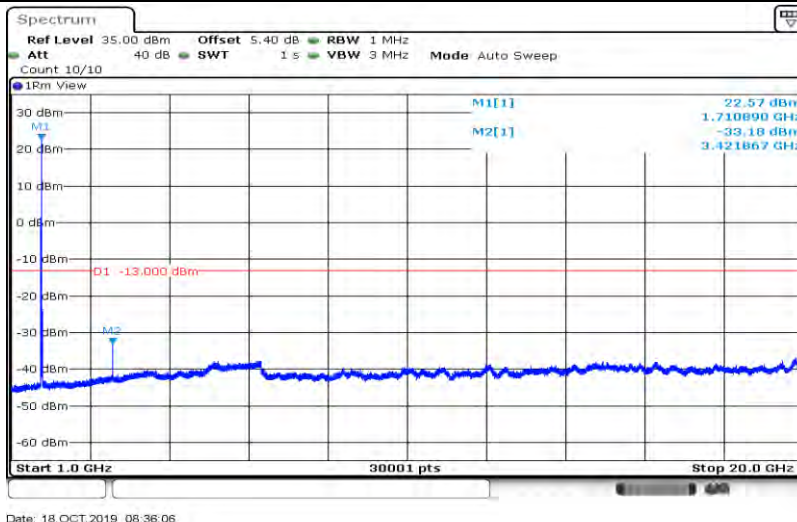


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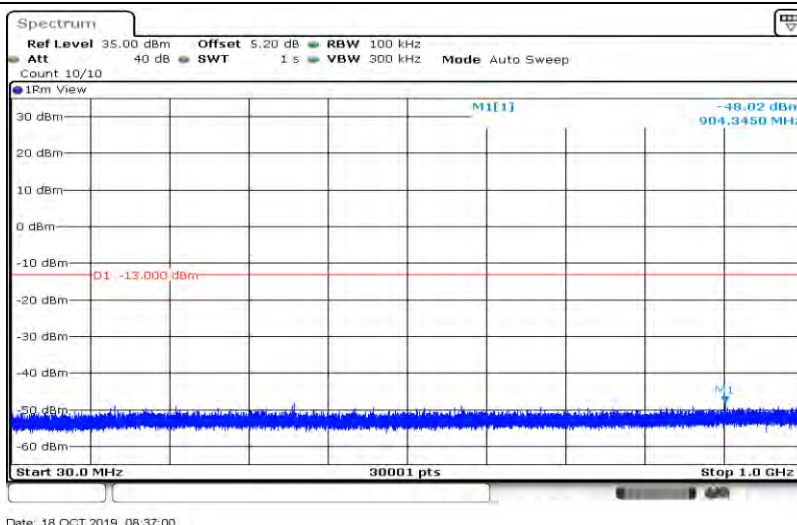
Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



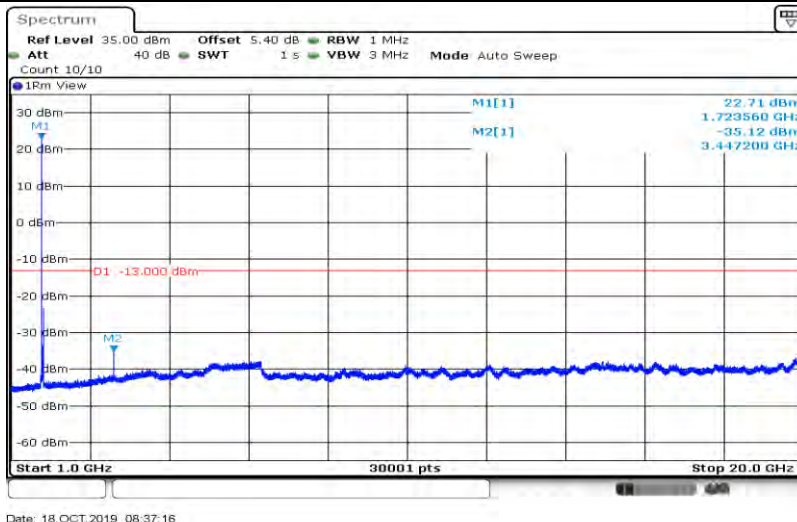
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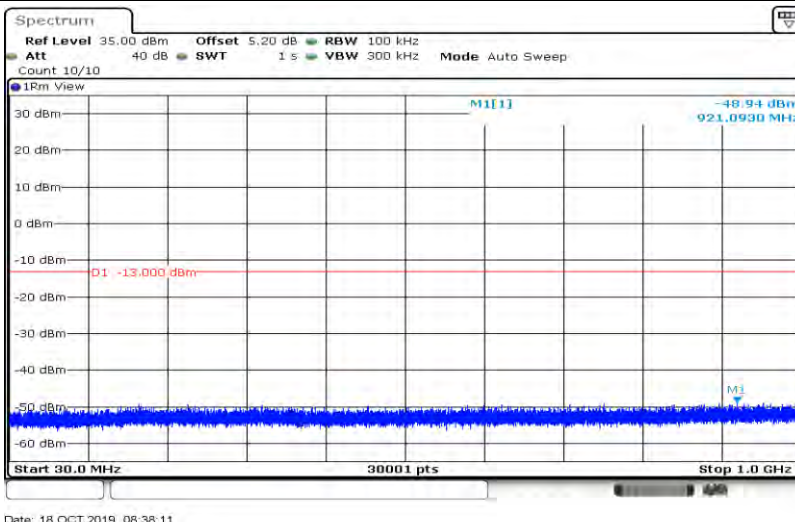


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz

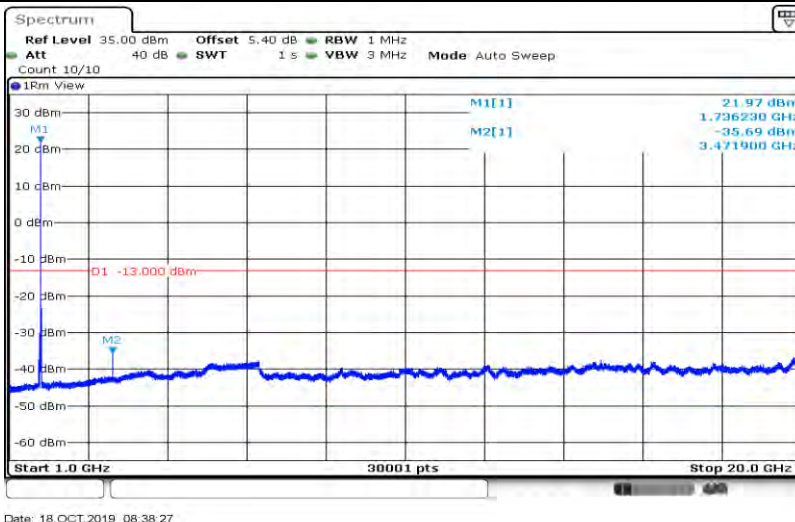


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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-68.70	-13.00	55.70	Vertical
117.5469	-63.49	-13.00	50.49	Vertical
398.6669	-66.94	-13.00	53.94	Vertical
2125.4251	-36.92	-13.00	23.92	Vertical
7947.6649	-52.87	-13.00	39.87	Vertical
17984.4995	-33.10	-13.00	20.10	Vertical
43.1927	-63.69	-13.00	50.69	Horizontal
241.7616	-68.22	-13.00	55.22	Horizontal
666.9338	-62.46	-13.00	49.46	Horizontal
2702.7405	-35.68	-13.00	22.68	Horizontal
8747.1916	-51.56	-13.00	38.56	Horizontal
17997.4999	-37.87	-13.00	24.87	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.1585	-72.02	-13.00	59.02	Vertical
111.4841	-64.04	-13.00	51.04	Vertical
436.8868	-66.60	-13.00	53.60	Vertical
2692.3385	-36.85	-13.00	23.85	Vertical
9333.7111	-49.46	-13.00	36.46	Vertical
17997.4999	-33.34	-13.00	20.34	Vertical
44.7447	-62.83	-13.00	49.83	Horizontal
229.5390	-67.78	-13.00	54.78	Horizontal
589.3785	-62.56	-13.00	49.56	Horizontal
2701.1402	-35.72	-13.00	22.72	Horizontal
7402.1467	-53.57	-13.00	40.57	Horizontal
17996.4999	-37.94	-13.00	24.94	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.8189	-70.92	-13.00	57.92	Vertical
111.9206	-63.28	-13.00	50.28	Vertical
565.1273	-64.62	-13.00	51.62	Vertical
2703.5407	-36.93	-13.00	23.93	Vertical
8634.6878	-51.90	-13.00	38.90	Vertical
17991.4997	-32.89	-13.00	19.89	Vertical
45.7633	-64.28	-13.00	51.28	Horizontal
246.5633	-67.48	-13.00	54.48	Horizontal
1274.8550	-47.72	-13.00	34.72	Horizontal
3472.0157	-48.92	-13.00	35.92	Horizontal
8454.6818	-52.60	-13.00	39.60	Horizontal
17987.9996	-37.47	-13.00	24.47	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.





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	-9.60	-0.005581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	0.40	0.000233	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-8.60	-0.004964	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-10.80	-0.006189	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-9.50	-0.005444	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	2.40	0.001375	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	1.70	0.000988	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-1.60	-0.000930	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-9.40	-0.005426	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-9.90	-0.005714	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	0.80	0.000458	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-0.30	-0.000172	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-9.00	-0.005158	±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	-8.00	-0.004651	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	3.30	0.001919	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-4.20	-0.002442	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-9.30	-0.005407	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-1.10	-0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-9.20	-0.005349	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	2.50	0.001443	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-4.80	-0.002771	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-1.60	-0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-9.70	-0.005599	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.40	0.001962	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	3.10	0.001789	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-4.80	-0.002771	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	2.90	0.001674	±2.5	PASS



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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-8.50	-0.004871	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-8.90	-0.005100	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-1.10	-0.000630	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-12.60	-0.007221	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-1.70	-0.000974	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	1.30	0.000745	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-10.60	-0.006163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-5.80	-0.003372	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	0.40	0.000233	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	5.00	0.002907	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-0.30	-0.000174	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-4.00	-0.002326	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-4.80	-0.002791	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-6.20	-0.003605	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-3.90	-0.002251	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-5.30	-0.003059	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-3.80	-0.002193	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-4.90	-0.002828	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-4.10	-0.002367	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	6.30	0.003636	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-7.40	-0.004241	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	1.70	0.000974	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-10.00	-0.005731	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	1.10	0.000630	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	1.90	0.001089	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	4.00	0.002292	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	2.20	0.001261	±2.5	PASS

The End



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com