



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	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.61	22.11	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.61	22.11	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.62	22.12	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.61	22.11	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.64	22.14	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.62	22.12	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.79	21.29	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.48	21.98	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.63	22.13	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.58	22.08	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.67	22.17	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.65	22.15	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.64	22.14	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.71	21.21	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.49	21.99	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.61	22.11	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.56	22.06	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.65	22.15	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.59	22.09	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.54	22.04	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.59	21.09	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.6	21.1	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.1	21.6	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.94	21.44	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.42	20.92	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.63	21.13	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.55	21.05	30.00	PASS



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Band4	1.4MHz	16QAM	19957	6RB#0	20.62	20.12	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.82	21.32	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.89	21.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.88	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.66	21.16	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.58	21.08	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.48	20.98	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.5	20	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.63	21.13	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.85	21.35	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.01	21.51	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.61	21.11	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.46	20.96	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.72	21.22	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.7	20.2	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.67	22.17	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.67	22.17	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.56	22.06	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.66	21.16	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.6	21.1	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.71	21.21	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.72	21.22	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.55	22.05	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.69	22.19	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.65	22.15	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.65	21.15	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.63	21.13	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.67	21.17	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.61	21.11	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.63	22.13	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.62	22.12	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.68	22.18	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.65	21.15	30.00	PASS



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Band4	3MHz	QPSK	20385	8RB#0	21.73	21.23	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.65	21.15	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.67	21.17	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.48	20.98	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.83	21.33	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.76	21.26	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.6	20.1	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.69	20.19	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.7	20.2	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.86	20.36	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.76	21.26	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.85	21.35	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.9	21.4	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.55	20.05	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.75	20.25	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.63	20.13	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.52	20.02	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.13	21.63	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.77	21.27	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.57	21.07	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.83	20.33	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.71	20.21	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.77	20.27	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.71	20.21	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.51	22.01	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.67	22.17	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.57	22.07	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.63	21.13	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.68	21.18	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.61	21.11	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.66	21.16	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.44	21.94	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.64	22.14	30.00	PASS



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Band4	5MHz	QPSK	20175	1RB#12	22.5	22	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.61	21.11	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.63	21.13	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.6	21.1	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.57	21.07	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.5	22	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.65	22.15	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.57	22.07	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.68	21.18	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.68	21.18	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.65	21.15	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.77	21.27	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.68	21.18	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22	21.5	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.41	20.91	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.69	20.19	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.63	20.13	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.6	20.1	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.67	20.17	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.93	21.43	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.82	21.32	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.51	21.01	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.7	20.2	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.74	20.24	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.6	20.1	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.63	20.13	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.86	21.36	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.69	21.19	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.64	21.14	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.68	20.18	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.64	20.14	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.61	20.11	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.72	20.22	30.00	PASS



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Band4	10MHz	QPSK	20000	1RB#0	22.52	22.02	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.67	22.17	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.54	22.04	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.72	21.22	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.71	21.21	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.65	21.15	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.74	21.24	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.71	22.21	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.65	22.15	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.59	22.09	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.69	21.19	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.64	21.14	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.66	21.16	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.71	21.21	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.69	22.19	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.64	22.14	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.57	22.07	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.74	21.24	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.67	21.17	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.73	21.23	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.74	21.24	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.15	21.65	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.61	21.11	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.67	21.17	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.81	20.31	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.7	20.2	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.79	20.29	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.65	20.15	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.68	21.18	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.91	21.41	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.53	21.03	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.74	20.24	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.65	20.15	30.00	PASS



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Band4	10MHz	16QAM	20175	25RB#0	20.75	20.25	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.67	20.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.56	21.06	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.08	21.58	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.48	20.98	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.71	20.21	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.64	20.14	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.82	20.32	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.72	20.22	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.56	22.06	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.67	22.17	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.45	21.95	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	21.67	21.17	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	21.69	21.19	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	21.67	21.17	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.74	21.24	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.59	22.09	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.68	22.18	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.51	22.01	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.68	21.18	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	21.7	21.2	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	21.68	21.18	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.67	21.17	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.59	22.09	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.55	22.05	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.52	22.02	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.74	21.24	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	21.71	21.21	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.74	21.24	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.64	21.14	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.01	21.51	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.81	21.31	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.53	21.03	30.00	PASS



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Band4	15MHz	16QAM	20025	36RB#0	20.76	20.26	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	20.67	20.17	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	20.7	20.2	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.64	20.14	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.6	21.1	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.03	21.53	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.91	21.41	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.71	20.21	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.69	20.19	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.69	20.19	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.68	20.18	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.58	21.08	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.77	21.27	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.49	20.99	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	20.72	20.22	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.71	20.21	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	20.6	20.1	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.63	20.13	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.54	22.04	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.29	21.79	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.09	21.59	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.35	20.85	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.64	21.14	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.22	20.72	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.26	20.76	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.49	21.99	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.64	22.14	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.11	21.61	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.63	21.13	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.71	21.21	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.7	21.2	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.71	21.21	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.48	21.98	30.00	PASS



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Band4	20MHz	QPSK	20300	1RB#49	22.63	22.13	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.13	21.63	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.64	21.14	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.63	21.13	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.62	21.12	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.55	21.05	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.15	20.65	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.62	21.12	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.39	20.89	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.3	19.8	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.3	19.8	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.27	19.77	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.23	19.73	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.16	20.66	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.78	21.28	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.39	20.89	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.18	19.68	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.73	20.23	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.24	19.74	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.22	19.72	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.01	20.51	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.37	20.87	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.14	20.64	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.18	19.68	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.63	20.13	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.18	19.68	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.66	20.16	30.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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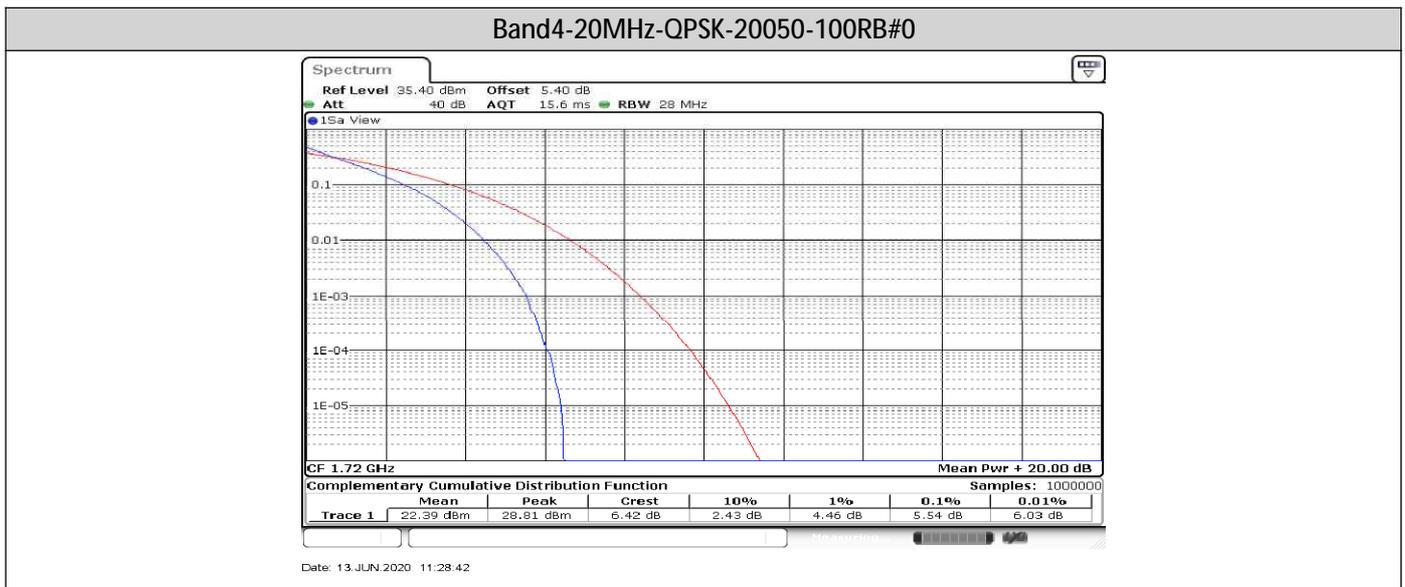


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.54	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.33	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.29	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.06	13	PASS

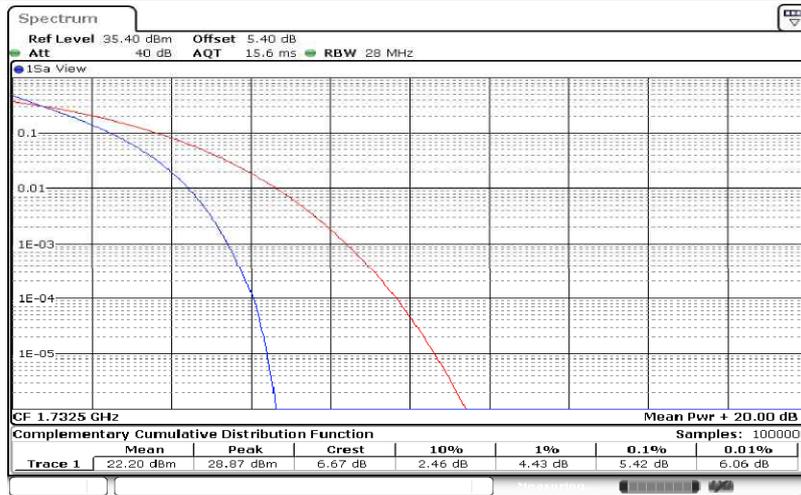
2.2. Test Plots



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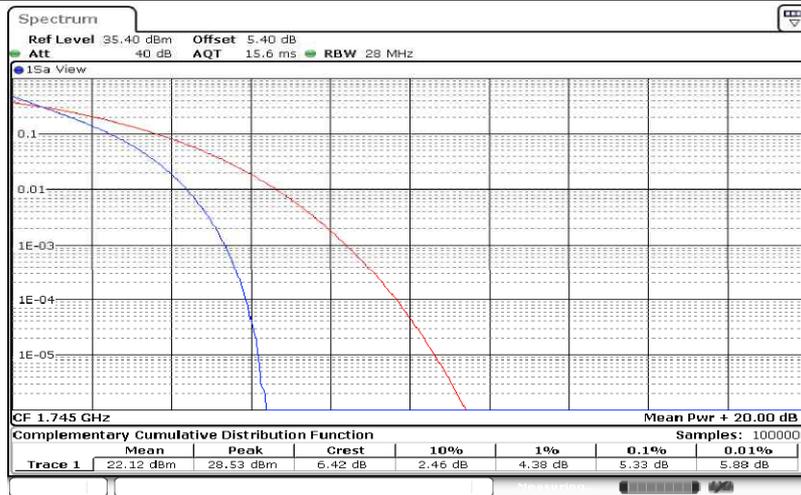


Band4-20MHz-QPSK-20175-100RB#0



Date: 13 JUN 2020 11:29:05

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



Date: 13 JUN 2020 11:29:27



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



Date: 13 JUN 2020 11:28:54

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



Date: 13 JUN 2020 11:29:16



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



Date: 13 JUN 2020 11:29:38

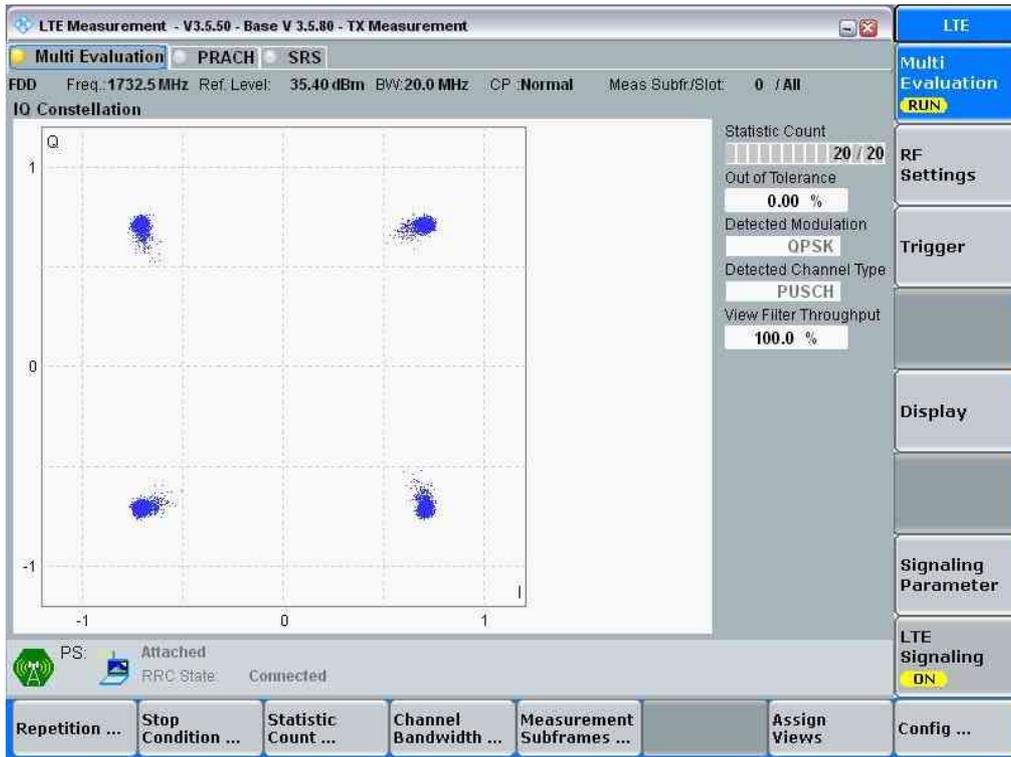


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

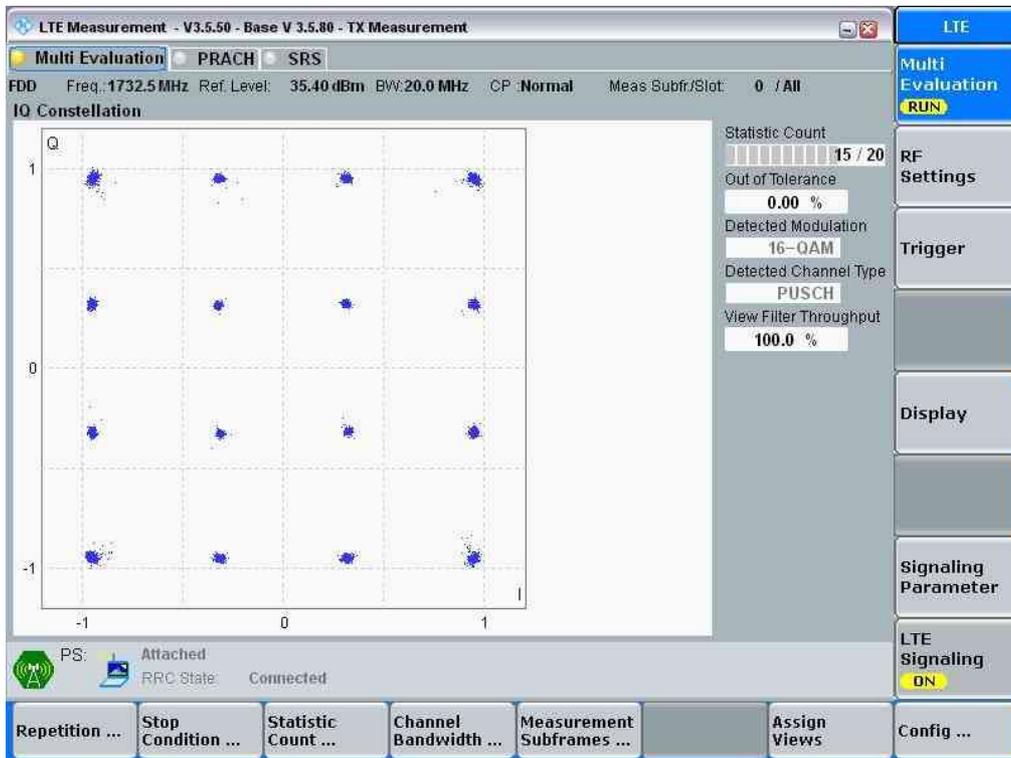
3.1.1. Test Channel = MCH



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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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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	1.281	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.281	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.302	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.293	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.082	1.275	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.326	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.916	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.946	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.886	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.874	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.922	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.720	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.760	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.830	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.476	4.740	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.870	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.790	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.971	9.440	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.971	9.540	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.971	9.500	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.620	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.640	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.660	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.700	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.457	14.580	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.730	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.606	14.550	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.576	14.520	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.576	14.580	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.022	19.200	PASS



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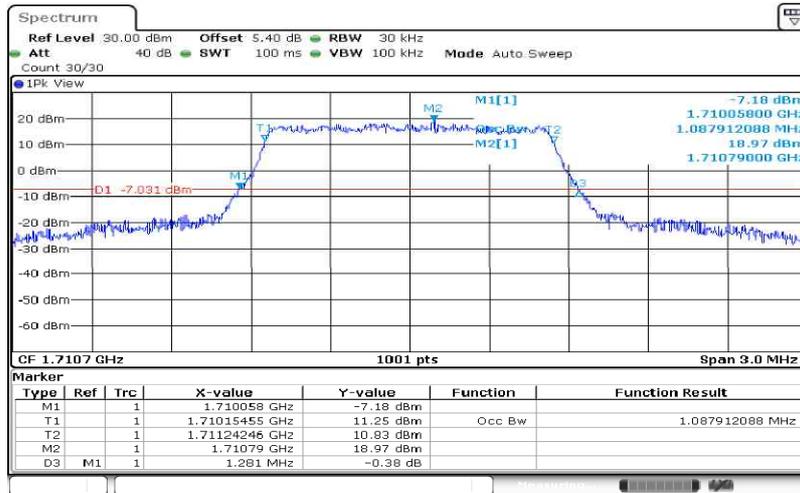
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Band4	20MHz	QPSK	20175	100RB#0	18.062	19.040	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.062	19.080	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.902	19.280	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.360	PASS

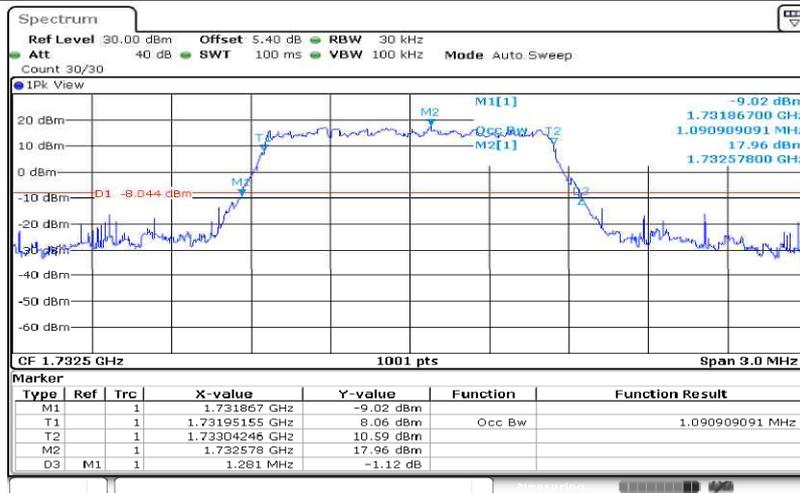
4.2. Test Plots

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



Date: 13 JUN 2020 10:59:07

Band4-1.4MHz-QPSK-20175-6RB#0-1.091



Date: 13 JUN 2020 10:59:33



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Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 13 JUN 2020 10:59:59

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



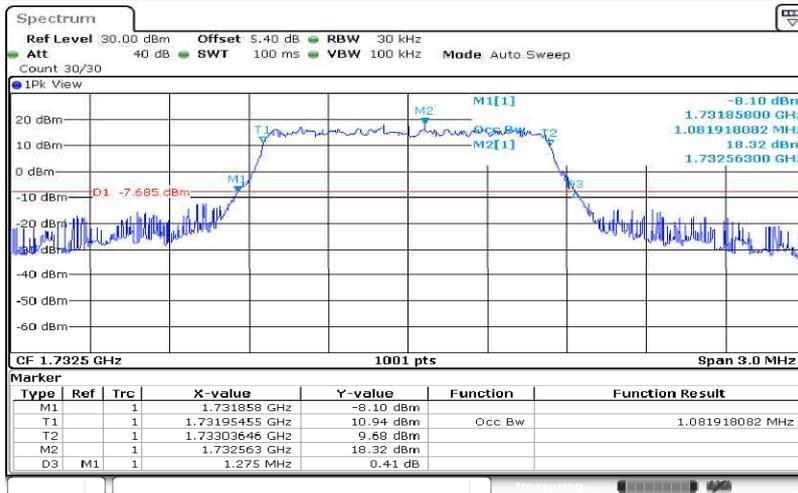
Date: 13 JUN 2020 10:59:20



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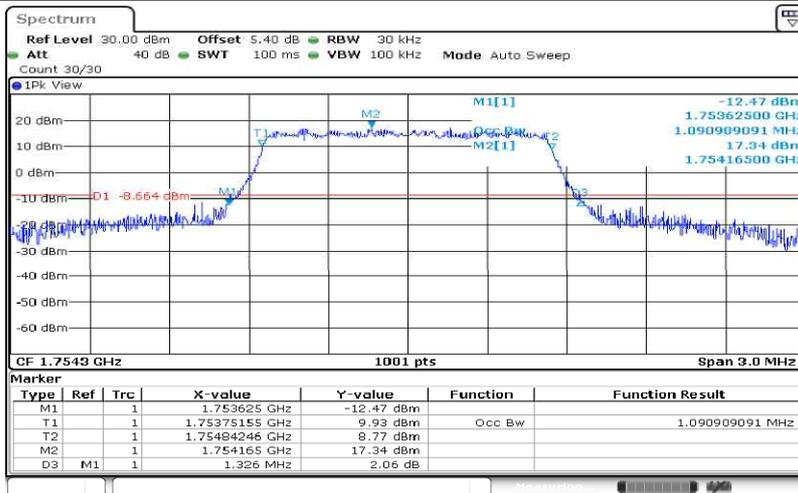


Band4-1.4MHz-16QAM-20175-6RB#0-1.082



Date: 13 JUN 2020 10:59:46

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



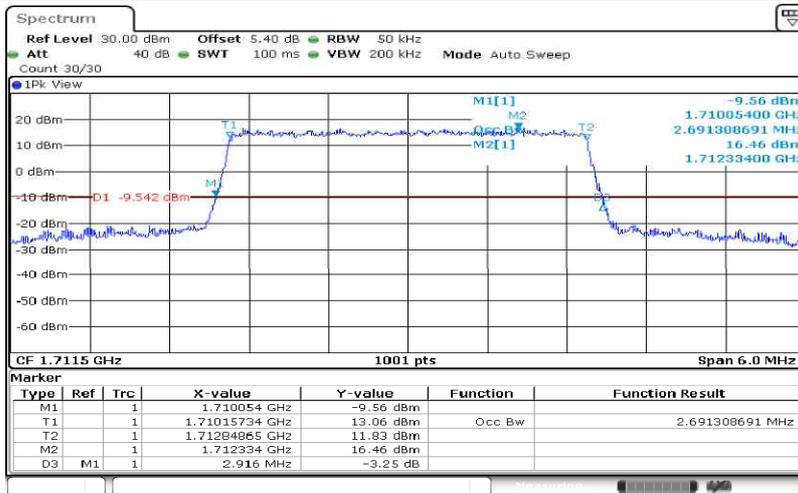
Date: 13 JUN 2020 11:00:11



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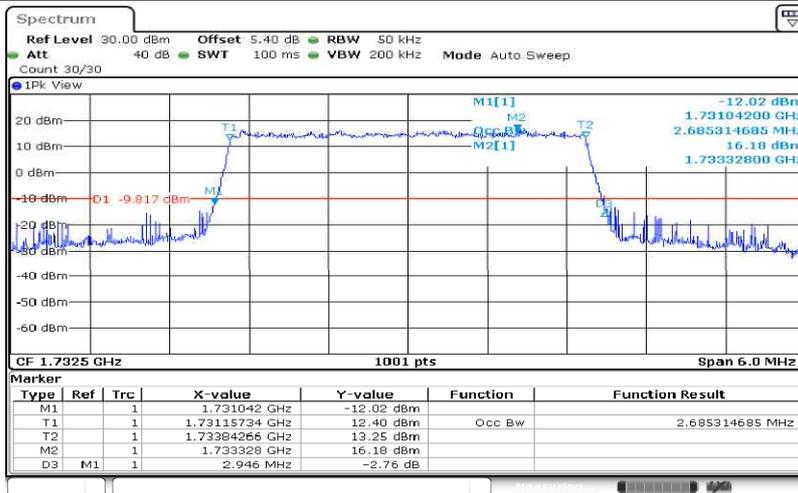


Band4-3MHz-QPSK-19965-15RB#0-2.691



Date: 13 JUN 2020 11:00:29

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



Date: 13 JUN 2020 11:00:55

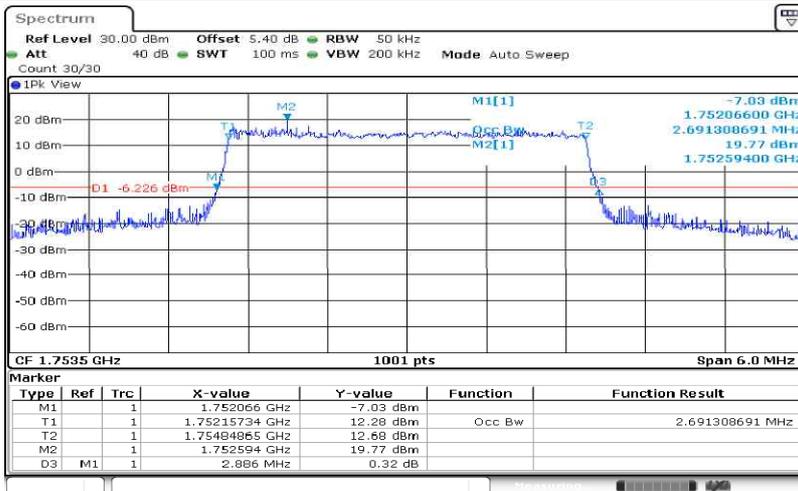


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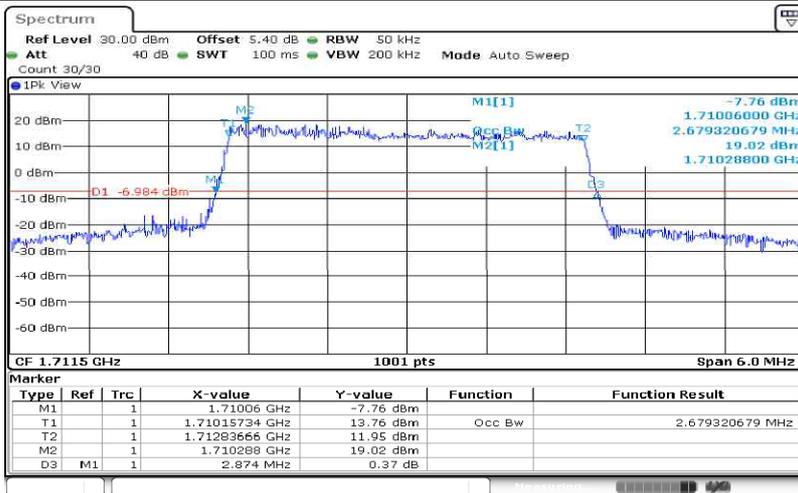


Band4-3MHz-QPSK-20385-15RB#0-2.691



Date: 13 JUN 2020 11:01:20

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



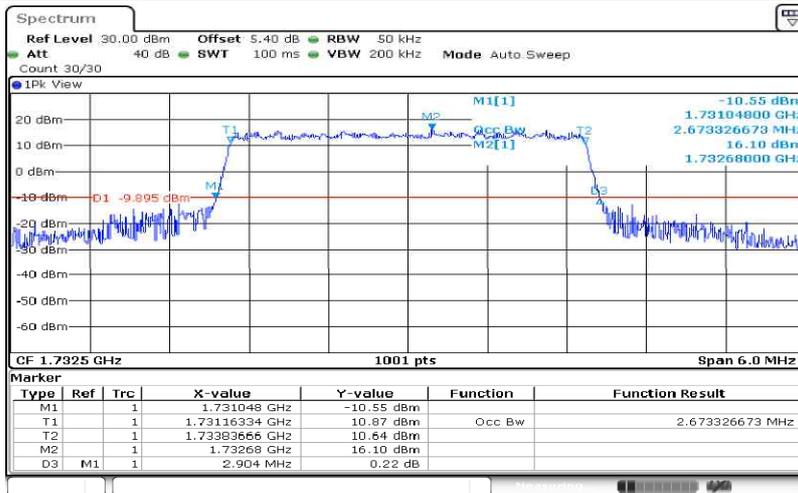
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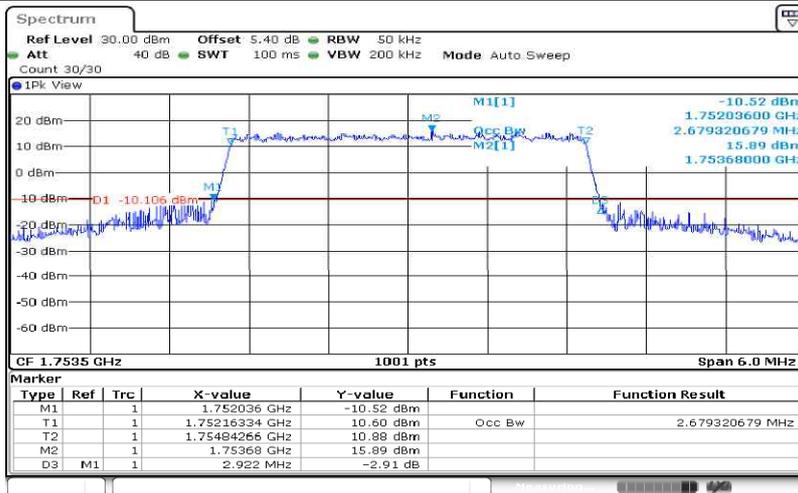


Band4-3MHz-16QAM-20175-15RB#0-2.673



Date: 13 JUN 2020 11:01:07

Band4-3MHz-16QAM-20385-15RB#0-2.679



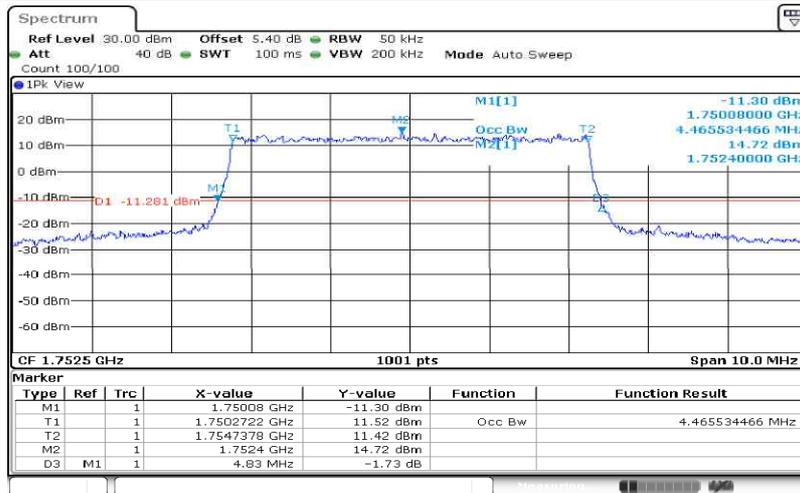
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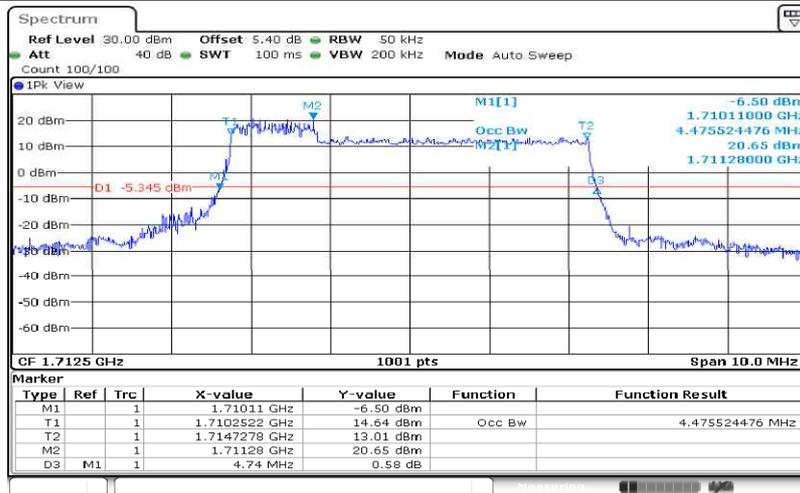


Band4-5MHz-QPSK-20375-25RB#0-4.466



Date: 13 JUN 2020 11:03:16

Band4-5MHz-16QAM-19975-25RB#0-4.476



Date: 13 JUN 2020 11:02:17

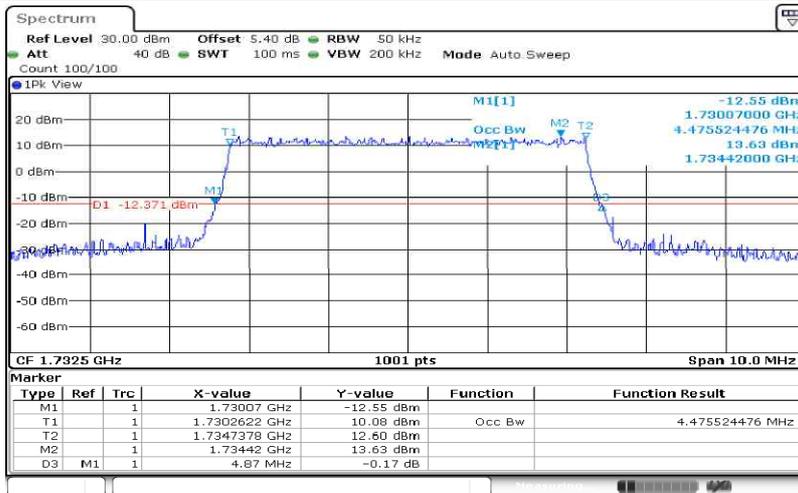


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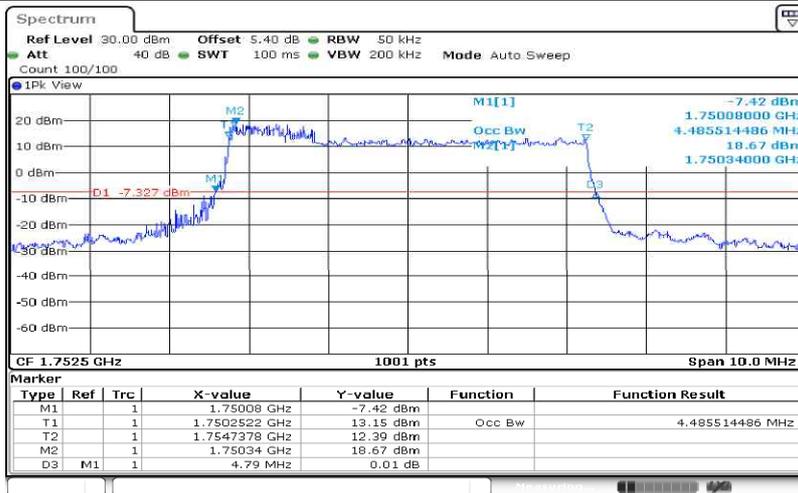


Band4-5MHz-16QAM-20175-25RB#0-4.476



Date: 13 JUN 2020 11:02:56

Band4-5MHz-16QAM-20375-25RB#0-4.486

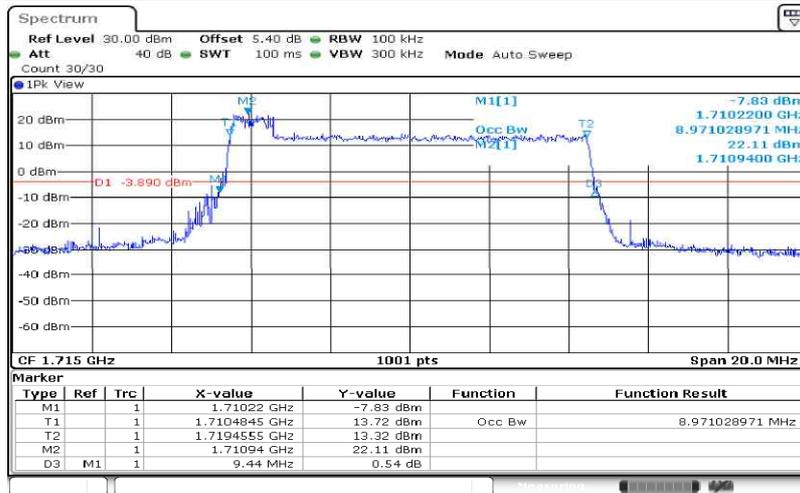


Date: 13 JUN 2020 11:03:35



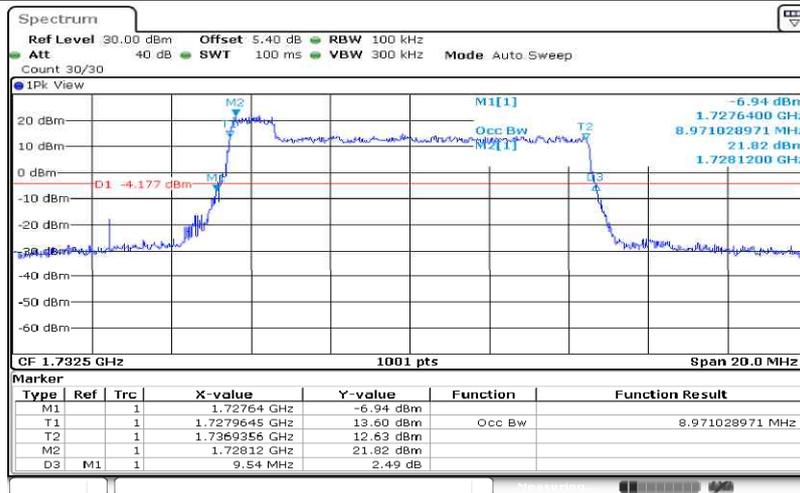
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Band4-10MHz-QPSK-20000-50RB#0-8.971



Date: 13 JUN 2020 11:03:53

Band4-10MHz-QPSK-20175-50RB#0-8.971



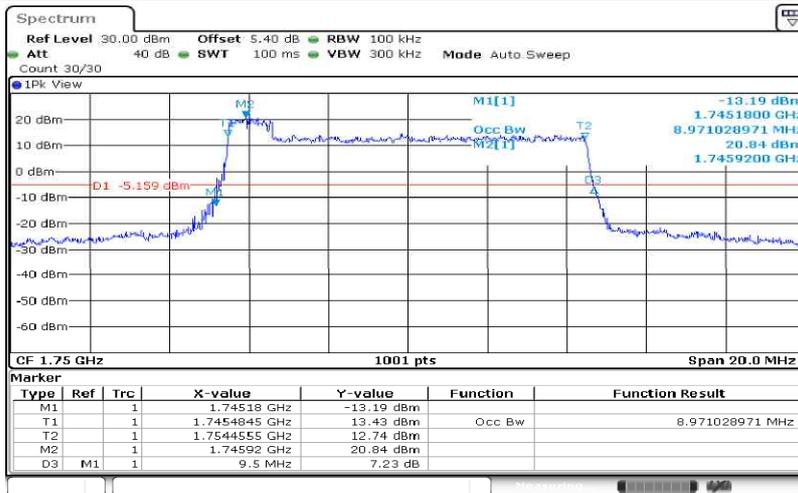
Date: 13 JUN 2020 11:04:18



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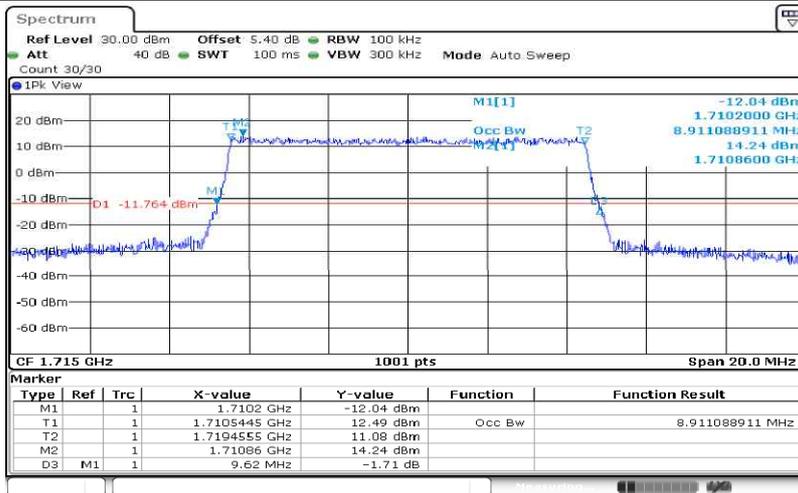


Band4-10MHz-QPSK-20350-50RB#0-8.971



Date: 13 JUN 2020 11:04:44

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



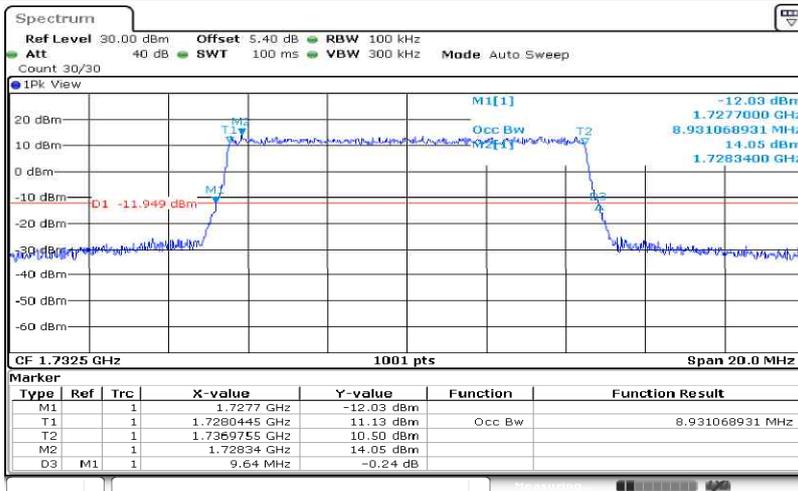
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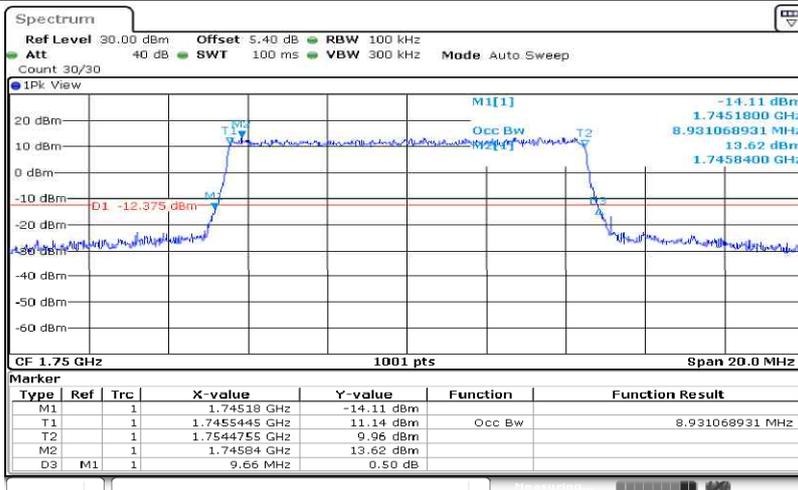


Band4-10MHz-16QAM-20175-50RB#0-8.931



Date: 13 JUN 2020 11:04:31

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



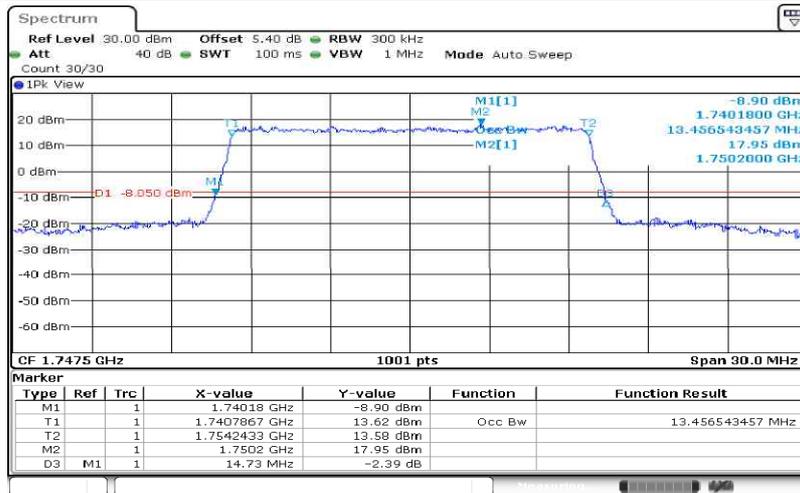
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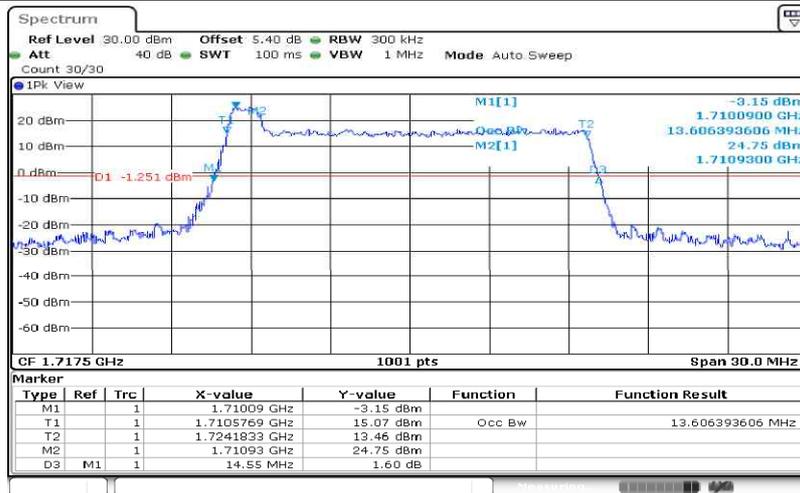


Band4-15MHz-QPSK-20325-75RB#0-13.457



Date: 13 JUN 2020 11:06:05

Band4-15MHz-16QAM-20025-75RB#0-13.606



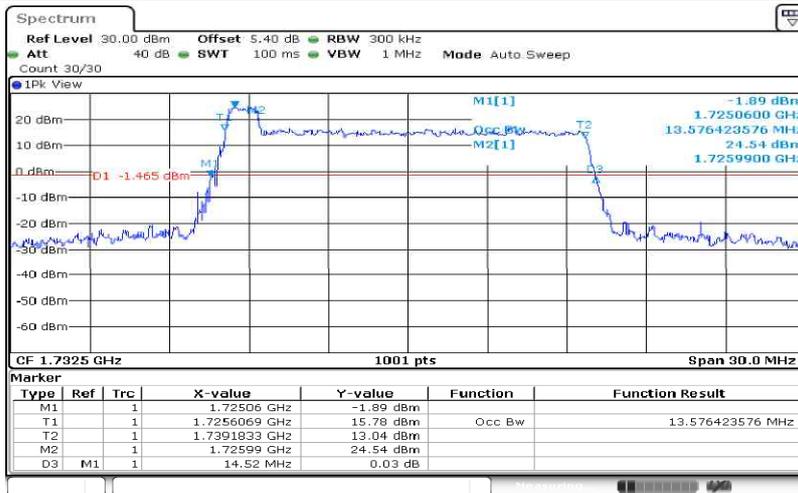
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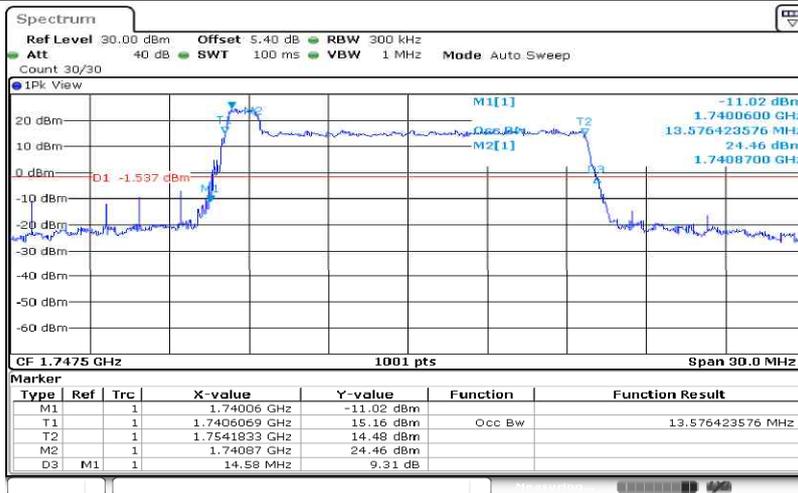


Band4-15MHz-16QAM-20175-75RB#0-13.576



Date: 13 JUN 2020 11:05:52

Band4-15MHz-16QAM-20325-75RB#0-13.576



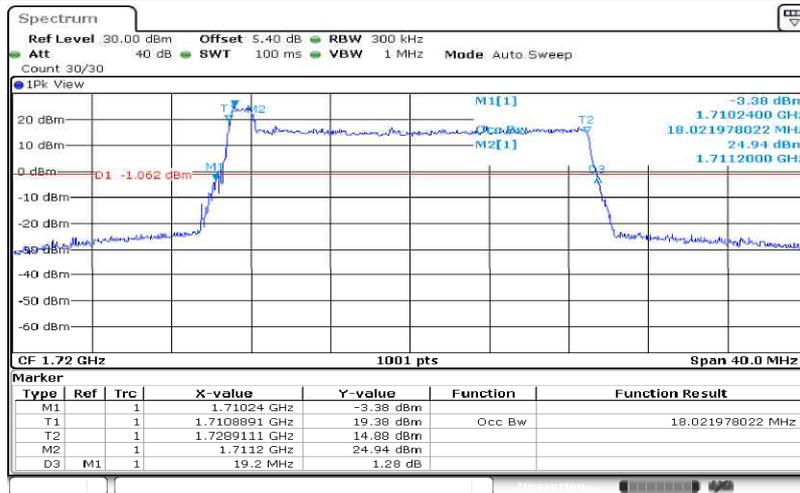
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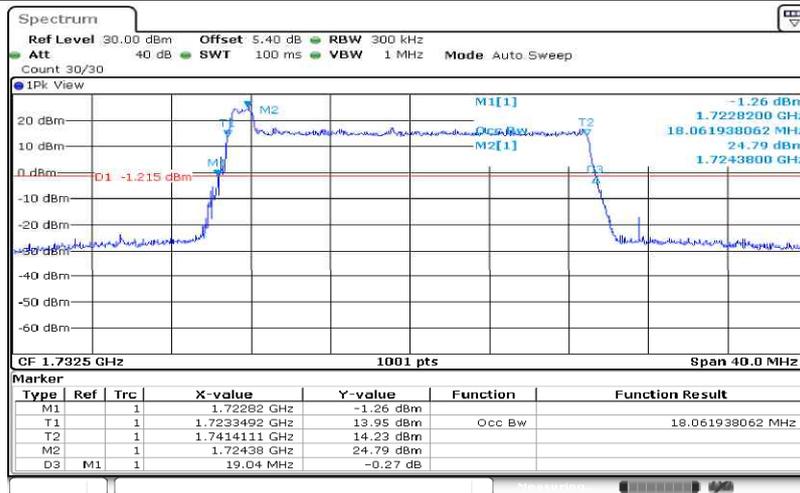


Band4-20MHz-QPSK-20050-100RB#0-18.022



Date: 13 JUN 2020 11:06:35

Band4-20MHz-QPSK-20175-100RB#0-18.062



Date: 13 JUN 2020 11:07:00



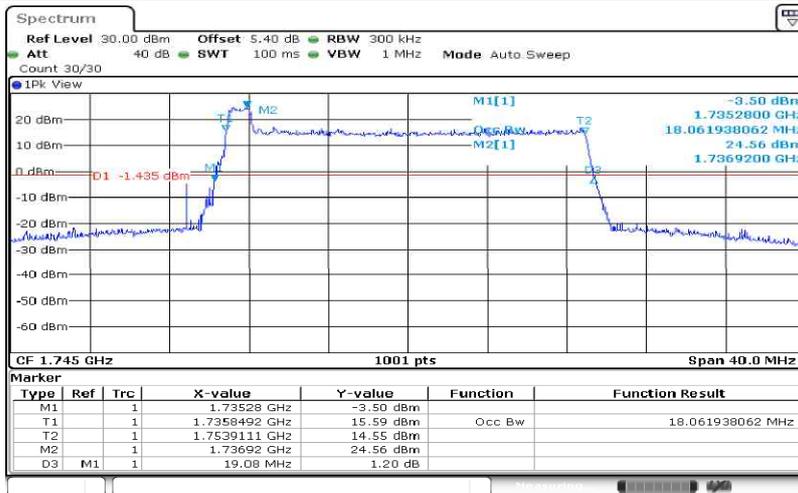
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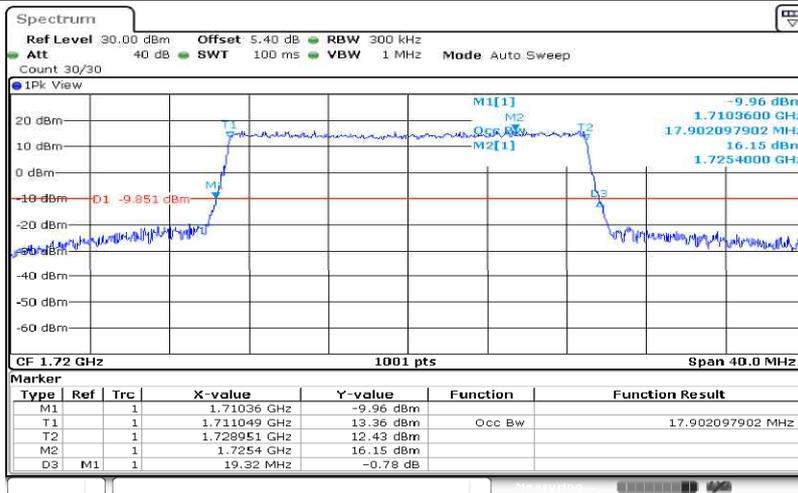


Band4-20MHz-QPSK-20300-100RB#0-18.062



Date: 13 JUN 2020 11:07:25

Band4-20MHz-16QAM-20050-100RB#0-17.902



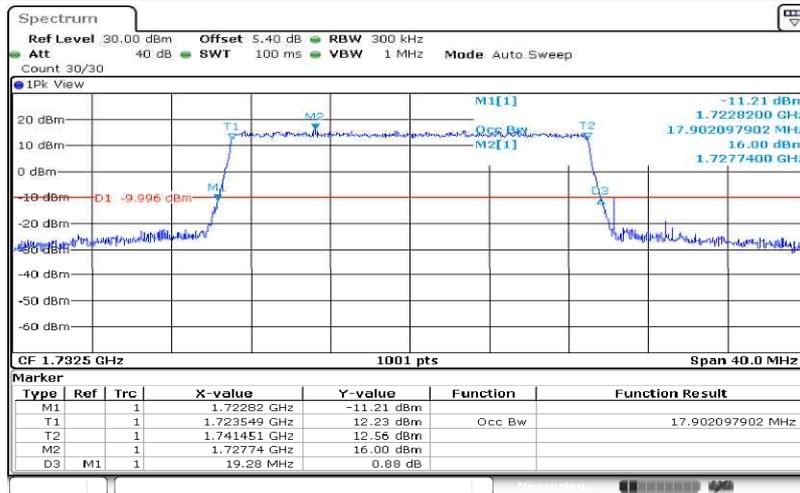
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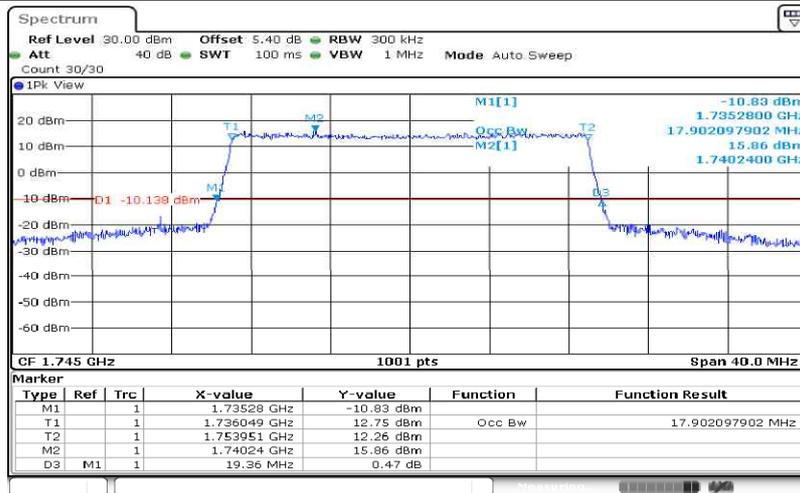


Band4-20MHz-16QAM-20175-100RB#0-17.902



Date: 13 JUN 2020 11:07:13

Band4-20MHz-16QAM-20300-100RB#0-17.902



Date: 13 JUN 2020 11:07:38

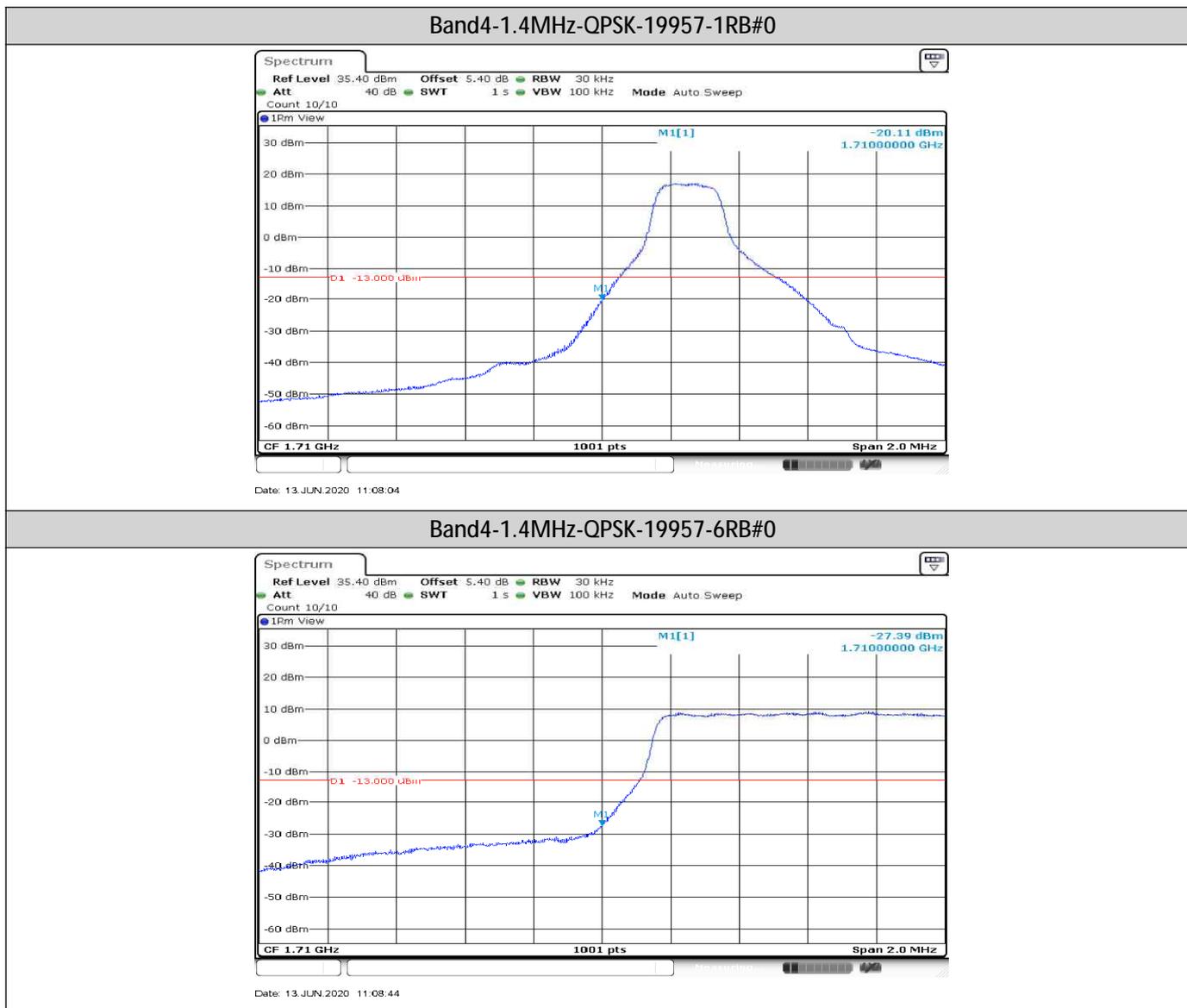


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5. Band Edge Compliance

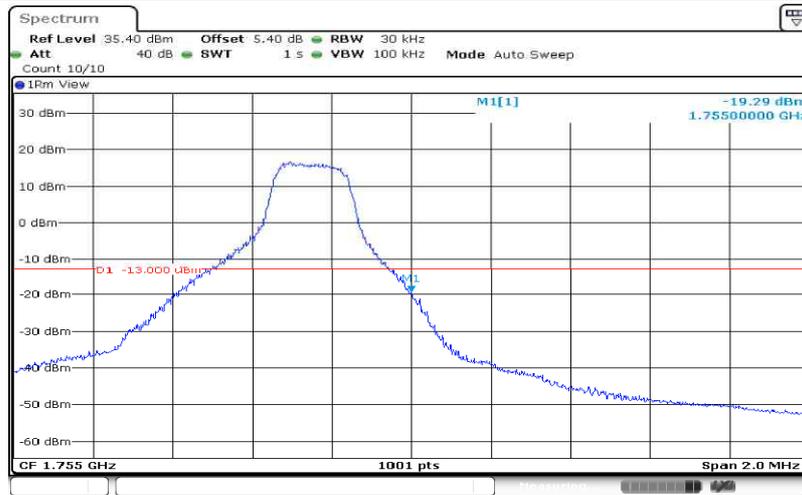
5.1. Test Plots



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



Date: 13 JUN 2020 11:09:30

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



Date: 13 JUN 2020 11:10:11



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



Date: 13 JUN 2020 11:08:24

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



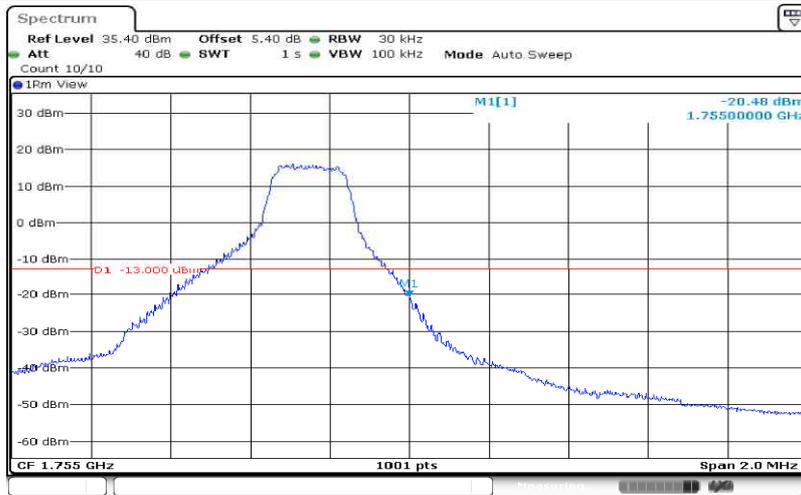
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Band4-1.4MHz-16QAM-20393-1RB#5



Date: 13 JUN 2020 11:09:50

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



Date: 13 JUN 2020 11:10:31



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



Date: 13 JUN 2020 11:10:57

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



Date: 13 JUN 2020 11:11:38



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



Date: 13 JUN 2020 11:12:23

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



Date: 13 JUN 2020 11:13:04



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



Date: 13 JUN 2020 11:12:44

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



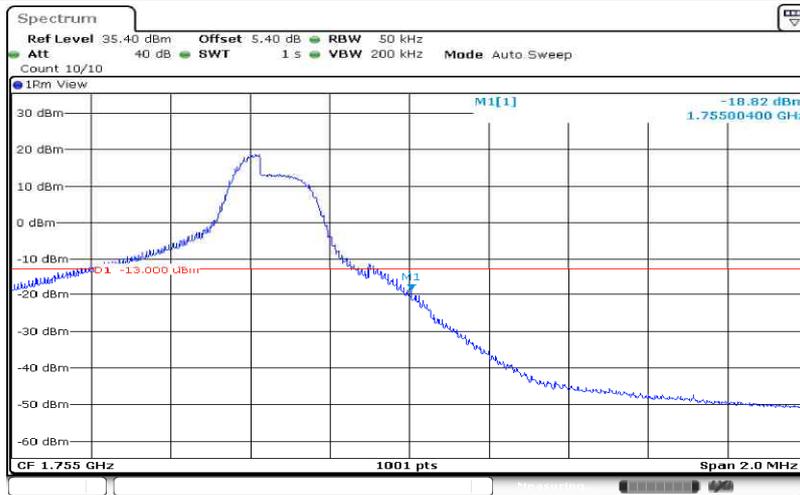
Date: 13 JUN 2020 11:13:25



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



Date: 13 JUN 2020 11:15:16

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



Date: 13 JUN 2020 11:15:57



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



Date: 13 JUN 2020 11:14:10

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



Date: 13 JUN 2020 11:14:51



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



Date: 13 JUN 2020 11:16:42

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



Date: 13 JUN 2020 11:17:23



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



Date: 13 JUN 2020 11:17:03

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



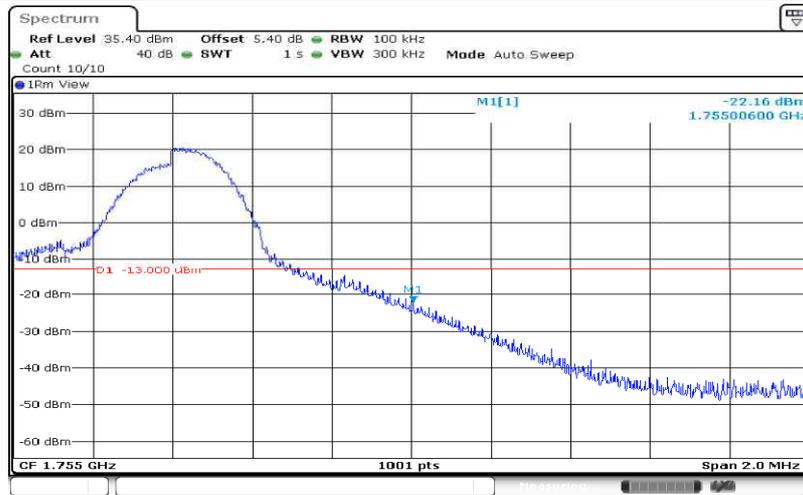
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Band4-10MHz-16QAM-20350-1RB#49



Date: 13 JUN 2020 11:18:29

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



Date: 13 JUN 2020 11:19:09



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



Date: 13 JUN 2020 11:19:35

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



Date: 13 JUN 2020 11:20:15



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



Date: 13 JUN 2020 11:21:01

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



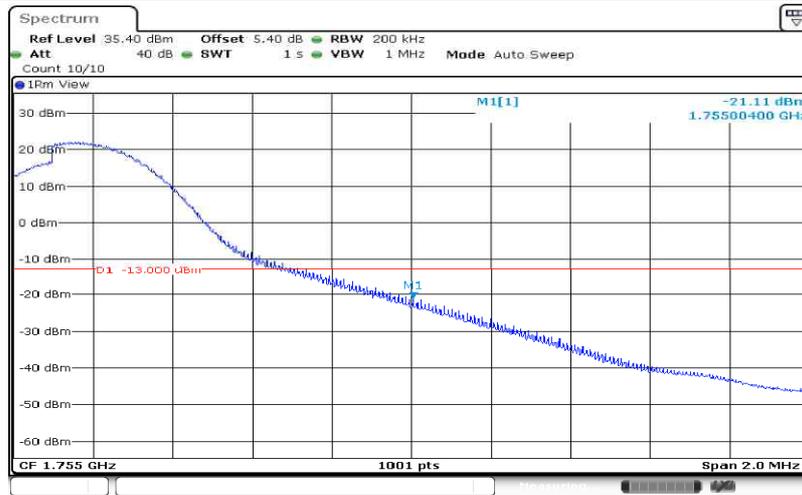
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Band4-15MHz-16QAM-20325-1RB#74



Date: 13 JUN 2020 11:21:21

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



Date: 13 JUN 2020 11:22:02



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



Date: 13 JUN 2020 11:23:53

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



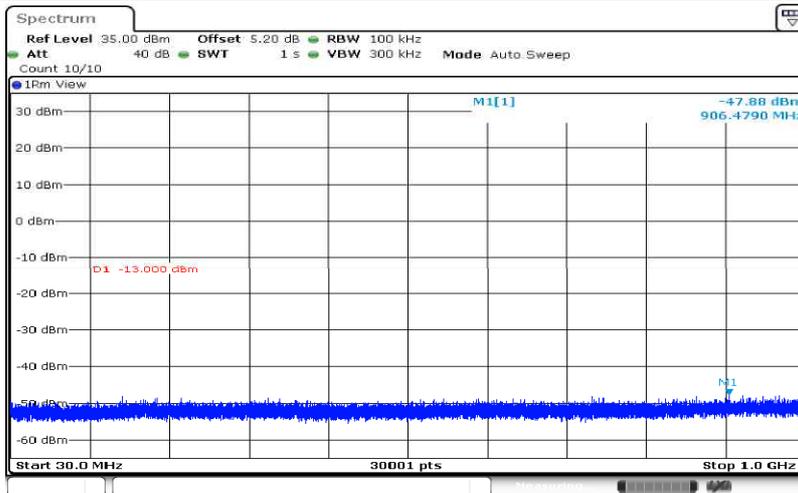
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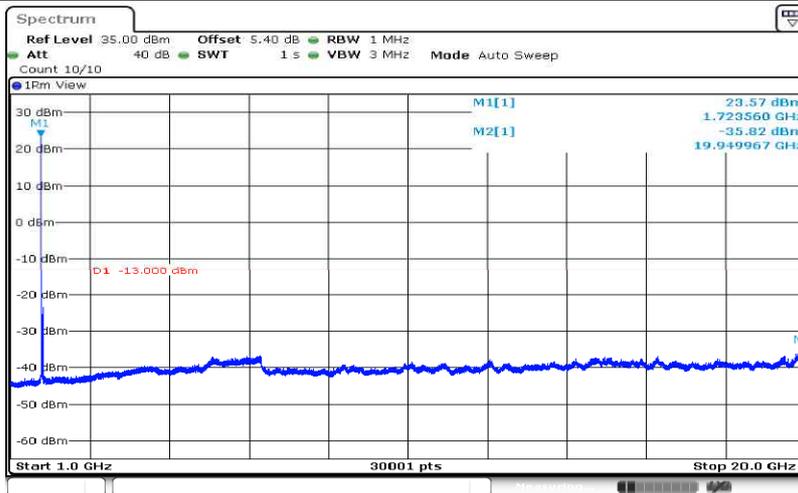


Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:26:27

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



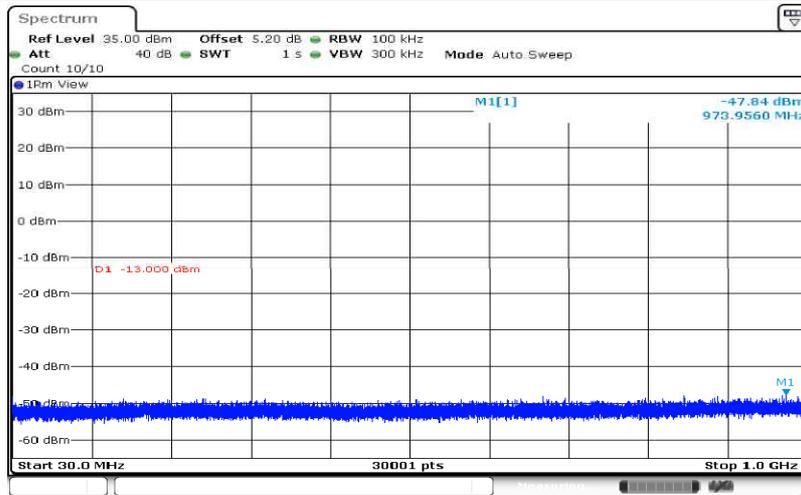
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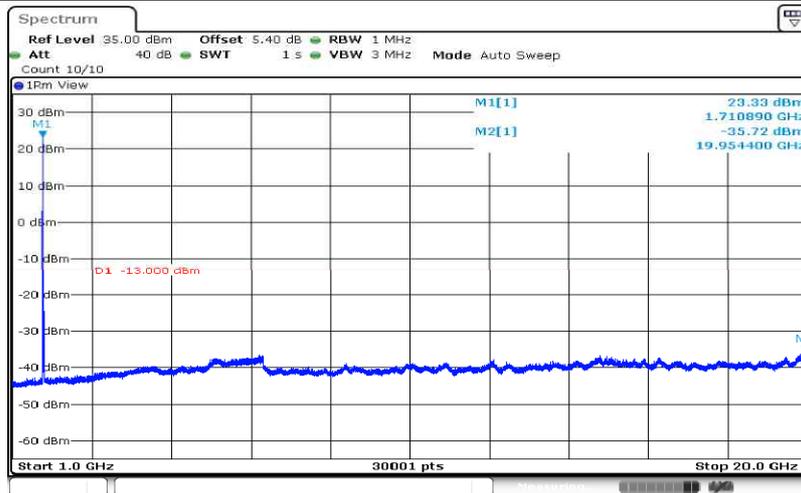


Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:25:52

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



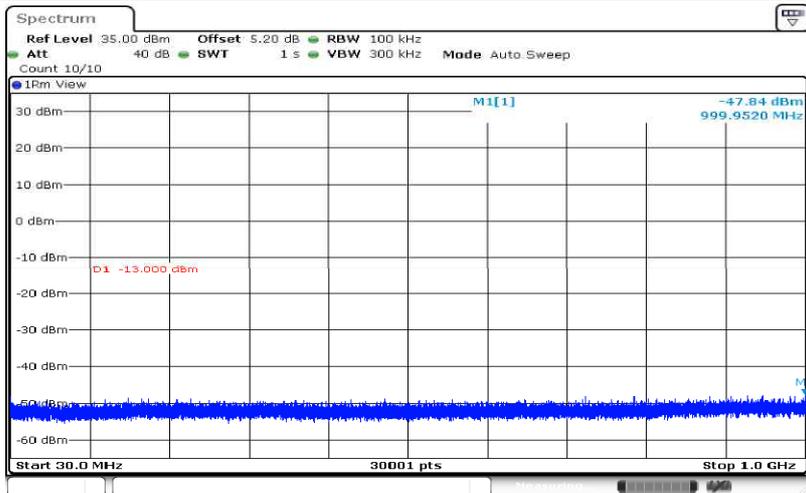
Date: 13 JUN 2020 11:28:08



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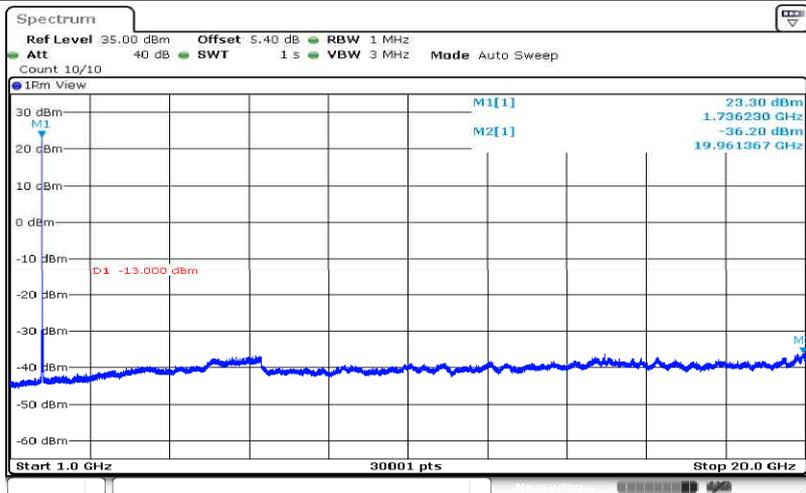


Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 13 JUN 2020 11:28:11

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



Date: 13 JUN 2020 11:28:27



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-3.30	-0.001919	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-8.20	-0.004767	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-16.20	-0.009419	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	4.70	0.002713	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-4.50	-0.002597	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-11.80	-0.006762	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-12.00	-0.006877	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-7.20	-0.004126	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-3.80	-0.002209	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	6.30	0.003663	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-2.70	-0.001570	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-8.70	-0.005022	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-8.00	-0.004618	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-10.40	-0.006003	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-9.40	-0.005387	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-10.80	-0.006189	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-9.20	-0.005349	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-7.50	-0.004360	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-10.00	-0.005814	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-16.00	-0.009302	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	4.50	0.002616	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-7.30	-0.004244	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-13.00	-0.007558	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-2.40	-0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-3.80	-0.002193	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-7.60	-0.004387	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	5.60	0.003232	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	7.00	0.004040	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-8.40	-0.004848	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-18.70	-0.010794	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	4.40	0.002521	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	8.00	0.004585	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-9.00	-0.005158	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	0.90	0.000516	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-7.90	-0.004527	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-6.90	-0.003954	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-16.20	-0.009284	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-23.20	-0.013295	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-11.80	-0.006860	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-1.10	-0.000640	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-16.70	-0.009709	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-13.60	-0.007907	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-14.70	-0.008547	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-8.70	-0.005058	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-10.40	-0.006047	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-4.90	-0.002828	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-2.40	-0.001385	±2.5	PASS



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Band4	20MHz	16QAM	20175	100RB#0	NV	0	-6.90	-0.003983	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-6.90	-0.003983	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-17.90	-0.010332	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-11.80	-0.006811	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-12.40	-0.007157	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-6.00	-0.003463	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-17.40	-0.009971	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-21.60	-0.012378	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-10.80	-0.006189	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-18.90	-0.010831	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-15.50	-0.008883	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-15.90	-0.009112	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-8.70	-0.004986	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-6.90	-0.003954	±2.5	PASS



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