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	22.69	20.39	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.57	20.27	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.53	20.23	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.66	20.36	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.66	20.36	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.59	20.29	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.59	19.29	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.77	20.47	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.72	20.42	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.56	20.26	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.63	20.33	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.76	20.46	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.62	20.32	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.66	19.36	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.59	20.29	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.52	20.22	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.45	20.15	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.49	20.19	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.56	20.26	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.52	20.22	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.51	19.21	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.70	18.40	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.81	18.51	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.80	18.50	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	20.49	18.19	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	20.56	18.26	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	20.46	18.16	30	PASS

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Band4	1.4MHz	64QAM	19957	6RB#0	19.56	17.26	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.82	18.52	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.89	18.59	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.83	18.53	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.57	18.27	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	20.57	18.27	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	20.53	18.23	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.62	17.32	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.70	18.40	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.77	18.47	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.65	18.35	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.47	18.17	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	20.44	18.14	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.34	18.04	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.46	17.16	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.88	19.58	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.95	19.65	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.93	19.63	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.62	19.32	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.67	19.37	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.57	19.27	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.71	18.41	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.97	19.67	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.01	19.71	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.97	19.67	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.67	19.37	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.69	19.39	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.64	19.34	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.74	18.44	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.82	19.52	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.88	19.58	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.80	19.50	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.57	19.27	30	PASS

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Band4	1.4MHz	16QAM	20393	3RB#1	21.54	19.24	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.48	19.18	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.57	18.27	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.81	20.51	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.65	20.35	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.57	20.27	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.71	19.41	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.71	19.41	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.65	19.35	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.63	19.33	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.95	20.65	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.74	20.44	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.69	20.39	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.73	19.43	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.74	19.44	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.70	19.40	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.68	19.38	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.68	20.38	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.62	20.32	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.51	20.21	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.58	19.28	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.58	19.28	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.56	19.26	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.55	19.25	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.78	18.48	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.80	18.50	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.82	18.52	30	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.48	18.18	30	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.57	18.27	30	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.42	18.12	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.56	17.26	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.82	18.52	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.91	18.61	30	PASS

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Band4	3MHz	64QAM	20175	1RB#14	20.84	18.54	30	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.54	18.24	30	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.56	18.26	30	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.50	18.20	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.61	17.31	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.71	18.41	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.74	18.44	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.68	18.38	30	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.45	18.15	30	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.41	18.11	30	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.33	18.03	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.43	17.13	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.07	19.77	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.95	19.65	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.91	19.61	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.74	18.44	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.72	18.42	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.67	18.37	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.72	18.42	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.04	19.74	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.98	19.68	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.99	19.69	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.80	18.50	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.81	18.51	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.74	18.44	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.72	18.42	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.98	19.68	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.90	19.60	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.80	19.50	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.65	18.35	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.66	18.36	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.59	18.29	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.59	18.29	30	PASS

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Band4	5MHz	QPSK	19975	1RB#0	22.88	20.58	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.70	20.40	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.58	20.28	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.74	19.44	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.65	19.35	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.60	19.30	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.69	19.39	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.98	20.68	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.73	20.43	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.63	20.33	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.79	19.49	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.74	19.44	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.67	19.37	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.74	19.44	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.77	20.47	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.55	20.25	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.55	20.25	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.63	19.33	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.58	19.28	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.56	19.26	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.60	19.30	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.69	18.39	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.82	18.52	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.82	18.52	30	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.44	18.14	30	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.54	18.24	30	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.41	18.11	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.58	17.28	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.81	18.51	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.85	18.55	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.84	18.54	30	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.50	18.20	30	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.51	18.21	30	PASS

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Band4	5MHz	64QAM	20175	12RB#13	20.51	18.21	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.57	17.27	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.67	18.37	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.78	18.48	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.69	18.39	30	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.44	18.14	30	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.42	18.12	30	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.35	18.05	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.45	17.15	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.09	19.79	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.94	19.64	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.89	19.59	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.74	18.44	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.68	18.38	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.66	18.36	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.71	18.41	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.19	19.89	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.02	19.72	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.97	19.67	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.79	18.49	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.80	18.50	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.71	18.41	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.77	18.47	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.00	19.70	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.93	19.63	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.81	19.51	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.70	18.40	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.61	18.31	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.61	18.31	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.61	18.31	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.99	20.69	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.65	20.35	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.90	20.60	30	PASS

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Band4	10MHz	QPSK	20000	25RB#0	21.69	19.39	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.64	19.34	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.75	19.45	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.66	19.36	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.01	20.71	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.68	20.38	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.93	20.63	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.71	19.41	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.74	19.44	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.74	19.44	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.74	19.44	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.02	20.72	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.55	20.25	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.80	20.50	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.67	19.37	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.61	19.31	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.63	19.33	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.65	19.35	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.69	18.39	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.79	18.49	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.76	18.46	30	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.47	18.17	30	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.53	18.23	30	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.41	18.11	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.54	17.24	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.77	18.47	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.83	18.53	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.80	18.50	30	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.51	18.21	30	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.56	18.26	30	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.50	18.20	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.64	17.34	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.70	18.40	30	PASS

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Band4	10MHz	64QAM	20350	1RB#24	20.76	18.46	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.63	18.33	30	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.47	18.17	30	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.37	18.07	30	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.37	18.07	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.39	17.09	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.10	19.80	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.80	19.50	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.07	19.77	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.71	18.41	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.66	18.36	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.73	18.43	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.71	18.41	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.14	19.84	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.91	19.61	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.12	19.82	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.69	18.39	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.72	18.42	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.73	18.43	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.77	18.47	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.10	19.80	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.82	19.52	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.09	19.79	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.66	18.36	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.62	18.32	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.64	18.34	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.65	18.35	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.05	20.75	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.70	20.40	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.97	20.67	30	PASS
Band4	15MHz	QPSK	20025	36RB#0	21.71	19.41	30	PASS
Band4	15MHz	QPSK	20025	36RB#18	21.73	19.43	30	PASS
Band4	15MHz	QPSK	20025	36RB#39	21.71	19.41	30	PASS

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Band4	15MHz	QPSK	20025	75RB#0	21.75	19.45	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.93	20.63	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.77	20.47	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.02	20.72	30	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.80	19.50	30	PASS
Band4	15MHz	QPSK	20175	36RB#18	21.83	19.53	30	PASS
Band4	15MHz	QPSK	20175	36RB#39	21.85	19.55	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.84	19.54	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.94	20.64	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.67	20.37	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.96	20.66	30	PASS
Band4	15MHz	QPSK	20325	36RB#0	21.74	19.44	30	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.65	19.35	30	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.69	19.39	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.70	19.40	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.77	18.47	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.85	18.55	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.83	18.53	30	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.45	18.15	30	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.53	18.23	30	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.41	18.11	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.51	17.21	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.87	18.57	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.91	18.61	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.79	18.49	30	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.51	18.21	30	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.52	18.22	30	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.44	18.14	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.57	17.27	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.68	18.38	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.78	18.48	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.63	18.33	30	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.37	18.07	30	PASS

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Band4	15MHz	64QAM	20325	36RB#39	20.29	17.99	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.38	17.08	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.25	19.95	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.95	19.65	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.26	19.96	30	PASS
Band4	15MHz	16QAM	20025	36RB#0	20.73	18.43	30	PASS
Band4	15MHz	16QAM	20025	36RB#18	20.74	18.44	30	PASS
Band4	15MHz	16QAM	20025	36RB#39	20.71	18.41	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.76	18.46	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.26	19.96	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.10	19.80	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.39	20.09	30	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.81	18.51	30	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.85	18.55	30	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.83	18.53	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.87	18.57	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.25	19.95	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.98	19.68	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.27	19.97	30	PASS
Band4	15MHz	16QAM	20325	36RB#0	20.74	18.44	30	PASS
Band4	15MHz	16QAM	20325	36RB#18	20.72	18.42	30	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.71	18.41	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.70	18.40	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.79	20.49	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.65	20.35	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.89	20.59	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.76	19.46	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.71	19.41	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.86	19.56	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.87	19.57	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.78	20.48	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.80	20.50	30	PASS

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Band4	20MHz	QPSK	20175	50RB#0	21.87	19.57	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.86	19.56	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.88	19.58	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.92	19.62	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.81	20.51	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.61	20.31	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.78	20.48	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.72	19.42	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.75	19.45	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.76	19.46	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.82	19.52	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.68	18.38	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.80	18.50	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.83	18.53	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.48	18.18	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.48	18.18	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.37	18.07	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.51	17.21	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.79	18.49	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.87	18.57	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.86	18.56	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.52	18.22	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.51	18.21	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.44	18.14	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.59	17.29	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.71	18.41	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.73	18.43	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.62	18.32	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.44	18.14	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.39	18.09	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.28	17.98	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.40	17.10	30	PASS

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Band4	20MHz	16QAM	20050	1RB#0	22.06	19.76	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.91	19.61	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.15	19.85	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.76	18.46	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.72	18.42	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.89	18.59	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.88	18.58	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.17	19.87	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.08	19.78	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.35	20.05	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.89	18.59	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.86	18.56	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.88	18.58	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.93	18.63	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.11	19.81	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.00	19.70	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.14	19.84	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.73	18.43	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.74	18.44	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.76	18.46	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.79	18.49	30	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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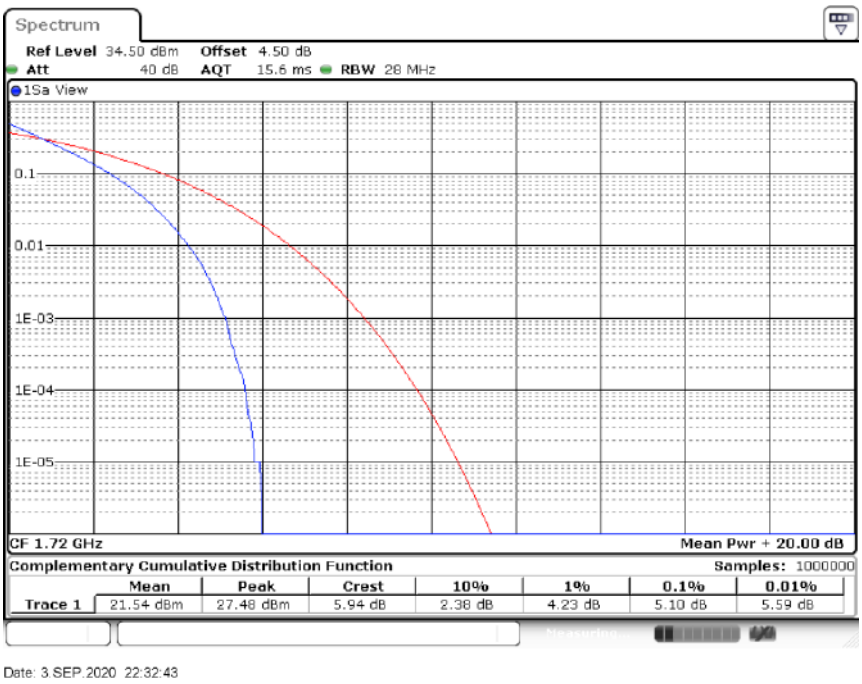
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.10	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.07	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.25	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.06	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	5.97	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.97	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.97	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.20	13	PASS

2.2. Test Plots

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



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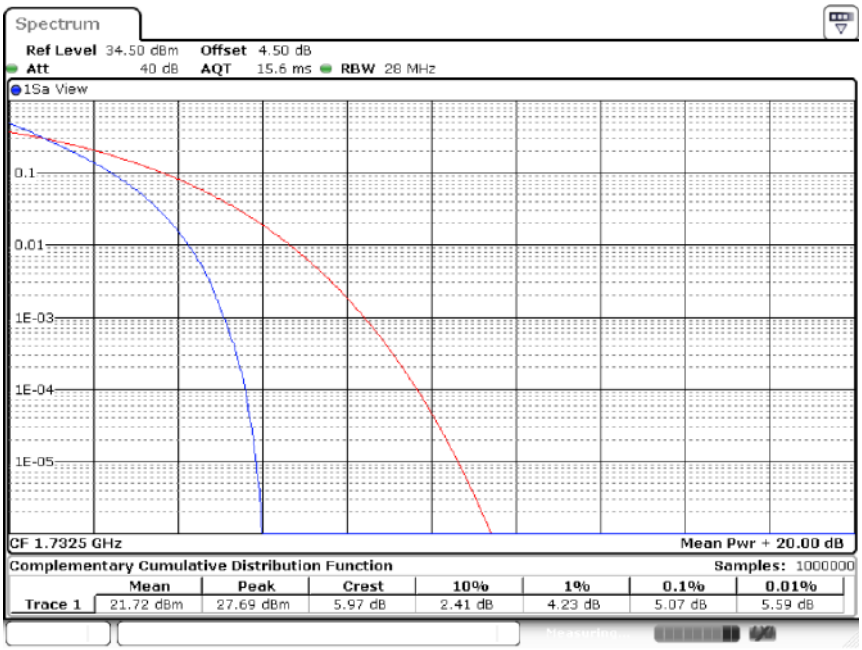
Band4-20MHz-QPSK-20175-100RB#0



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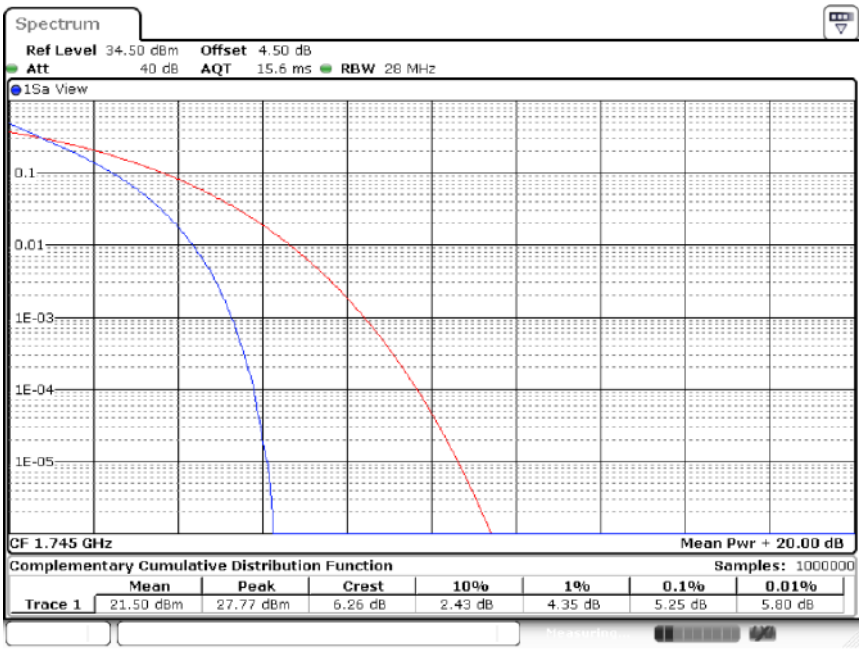
Band4-20MHz-QPSK-20300-100RB#0



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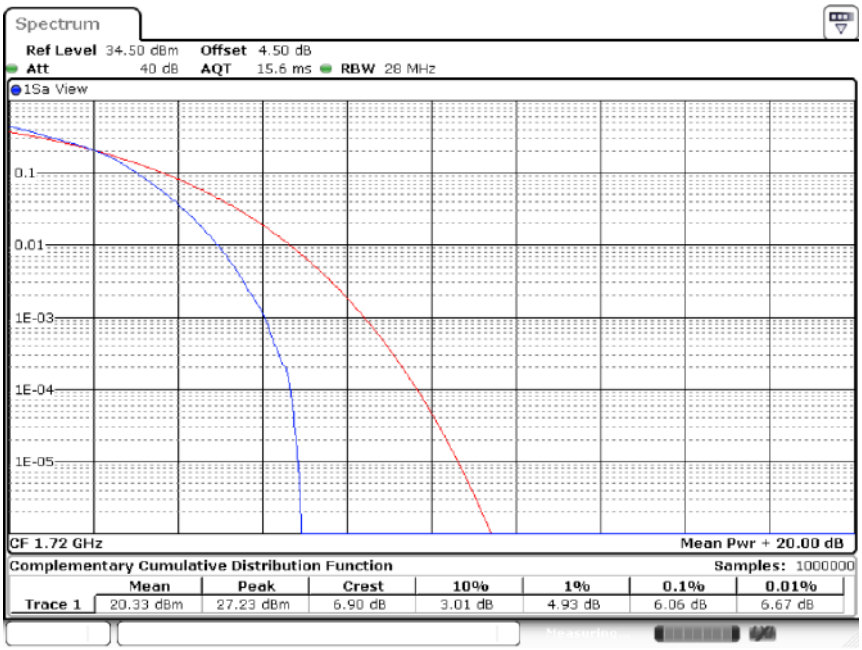
Band4-20MHz-64QAM-20050-100RB#0



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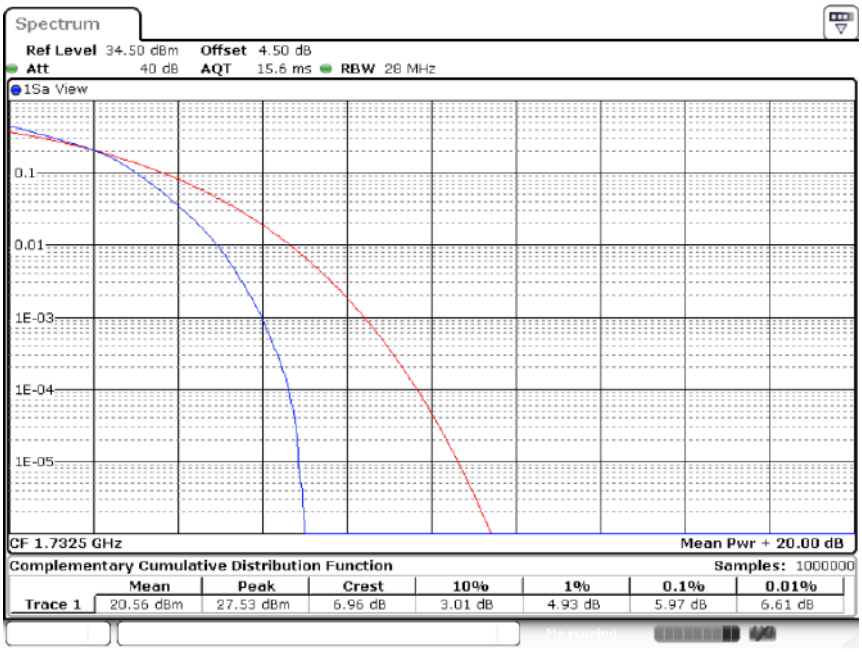
Band4-20MHz-64QAM-20175-100RB#0



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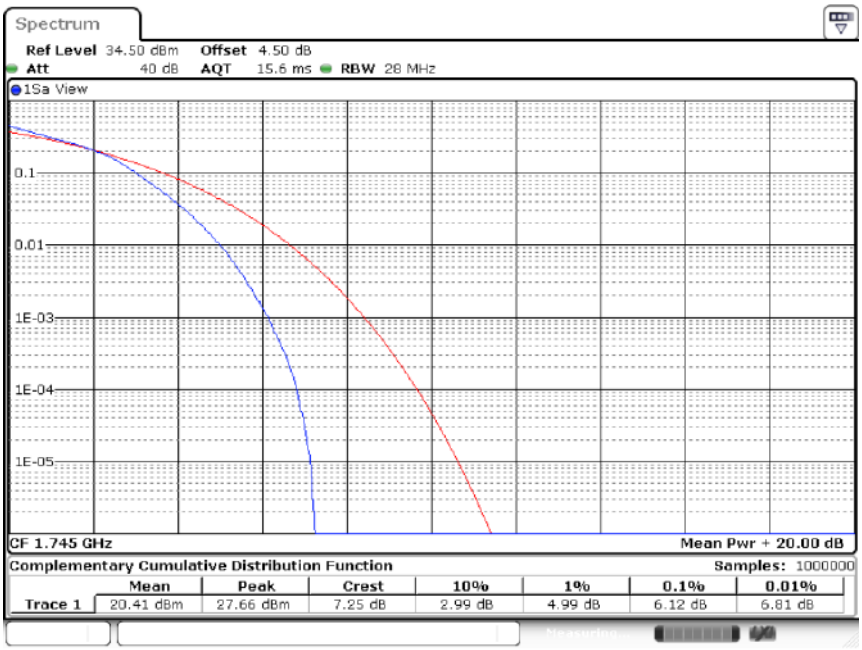
Band4-20MHz-64QAM-20300-100RB#0



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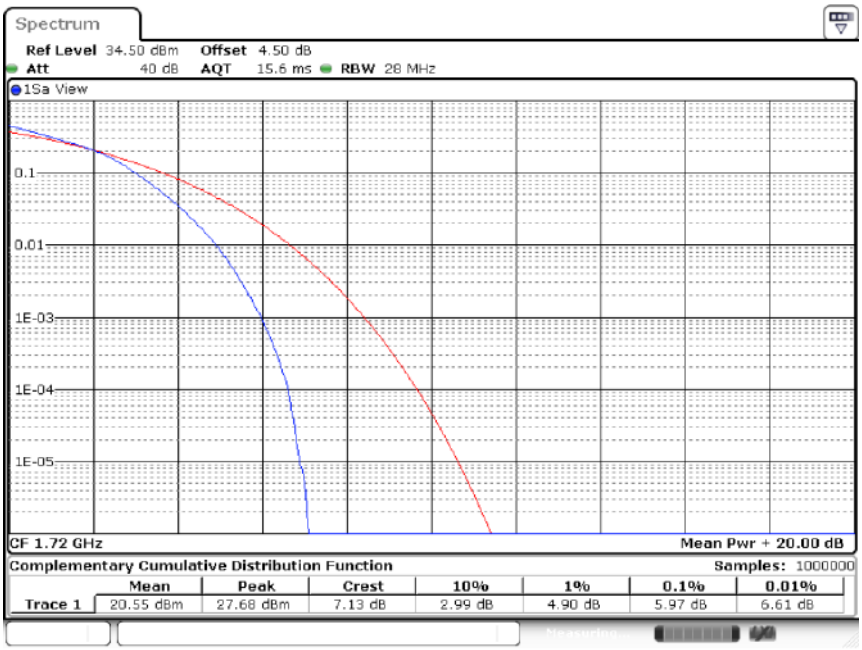
Band4-20MHz-16QAM-20050-100RB#0



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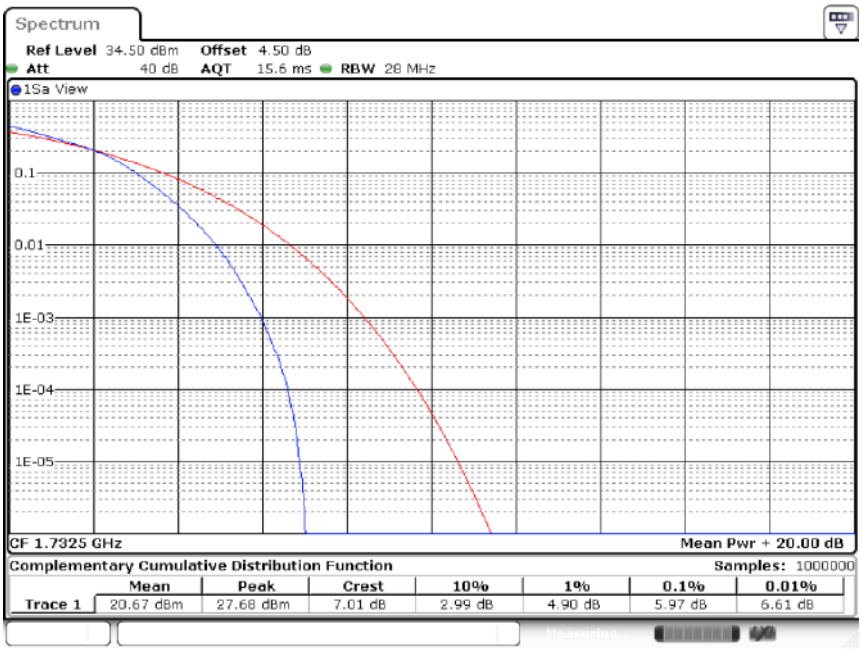

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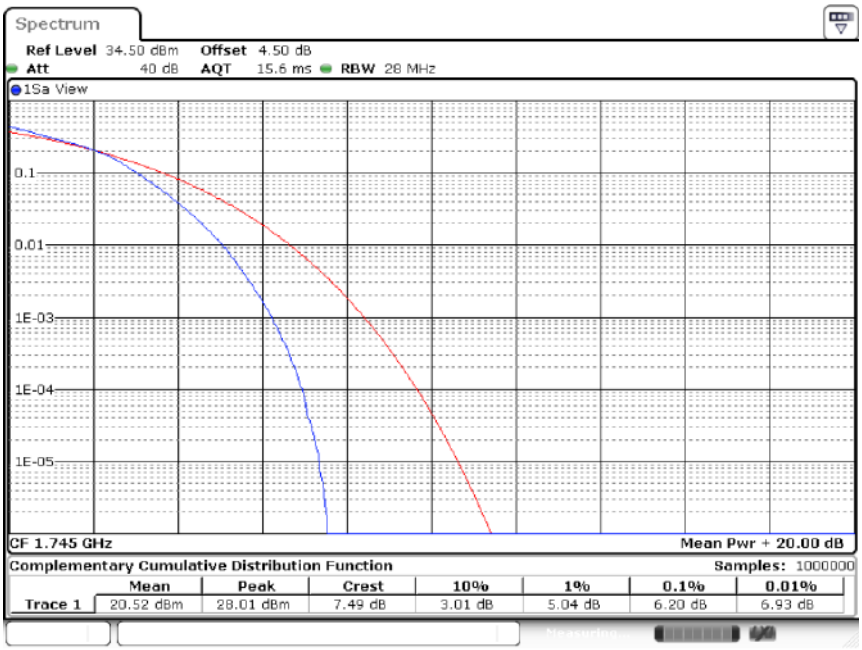

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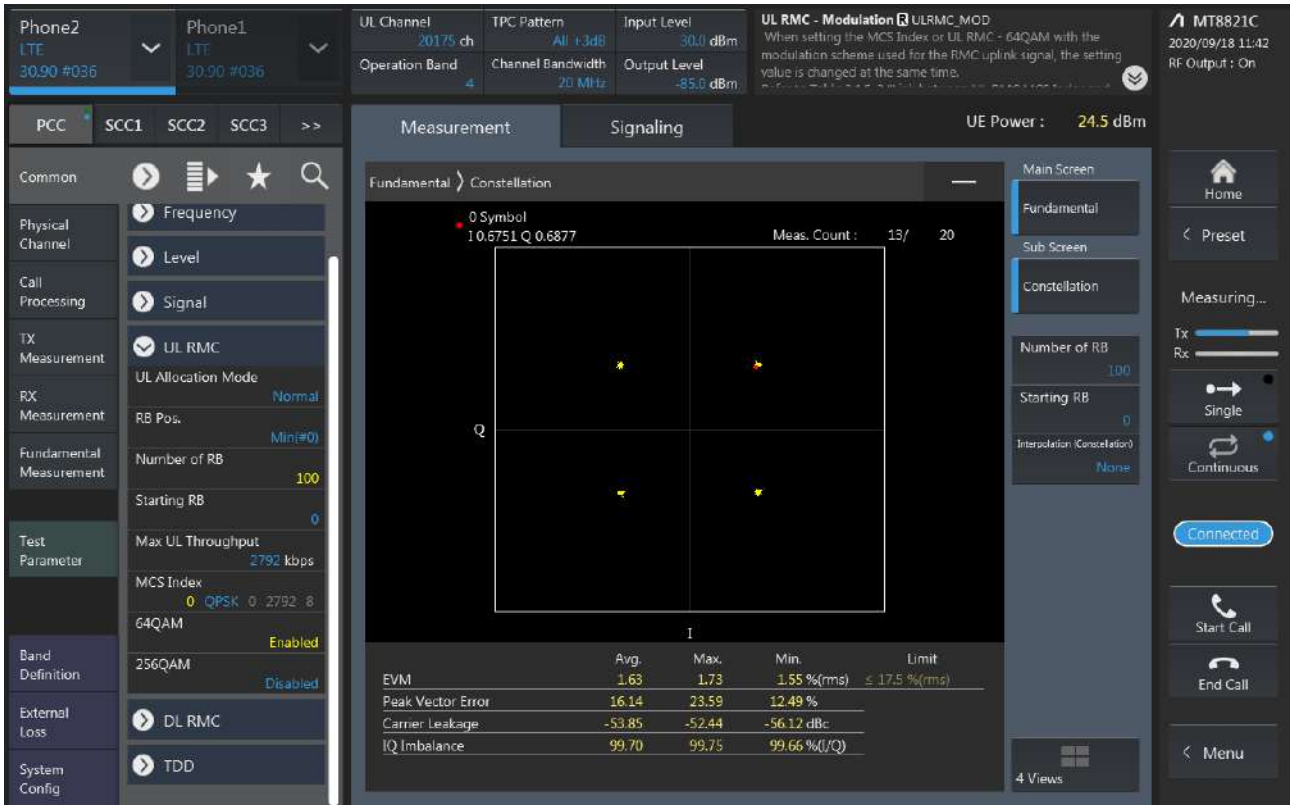
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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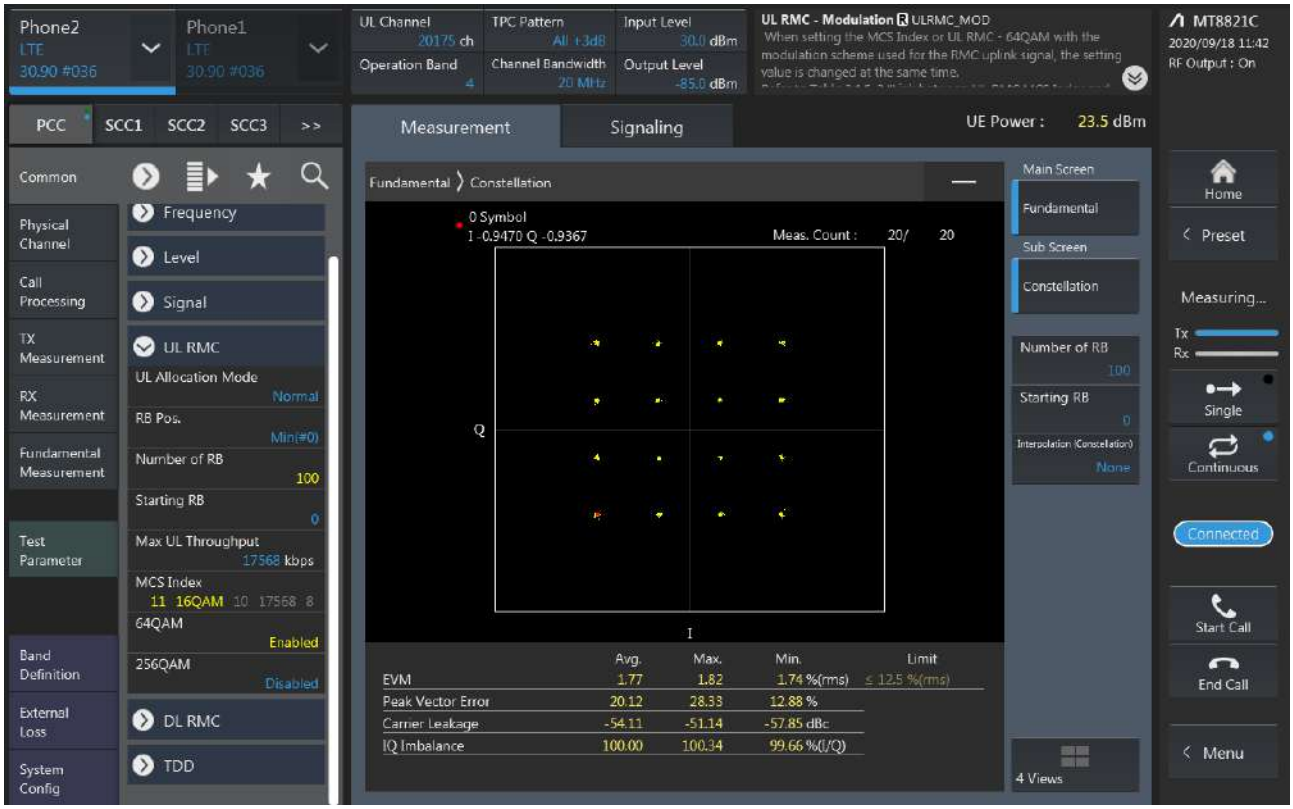
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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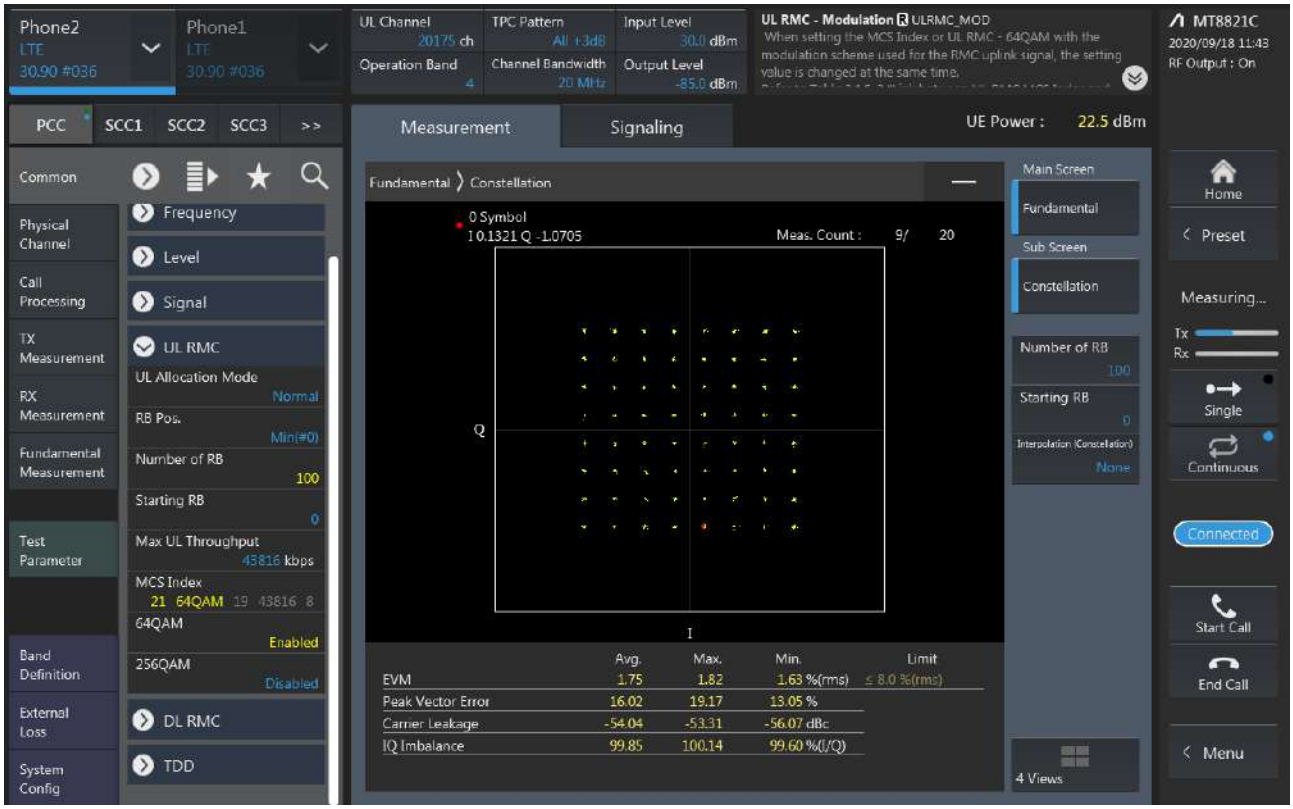
3.3. Test Mode = LTE /TM3 20MHz

3.3.1.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	1.091	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.287	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.091	1.296	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.299	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.290	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.287	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.091	1.269	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.284	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.988	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	2.988	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.703	2.976	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.691	2.964	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.691	2.964	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.691	2.970	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.691	2.976	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.970	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.940	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.930	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.960	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.940	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.476	4.970	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.960	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.950	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.740	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.911	9.720	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.740	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.800	PASS

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Band4	10MHz	64QAM	20175	50RB#0	8.911	9.760	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.800	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.800	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.760	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.740	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.730	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.457	14.820	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.760	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.427	14.730	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.427	14.790	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.457	14.790	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.700	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.820	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.760	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.400	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.480	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.480	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.440	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.862	19.480	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.902	19.480	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.440	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.902	19.440	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.400	PASS

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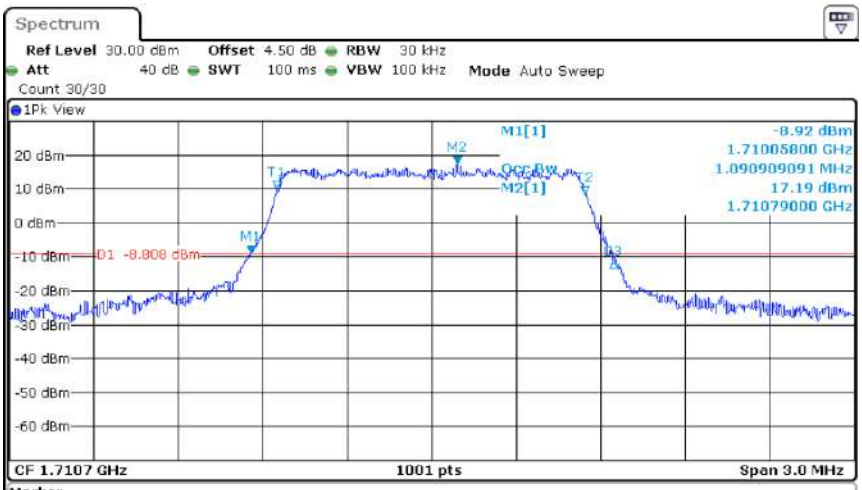
4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.091

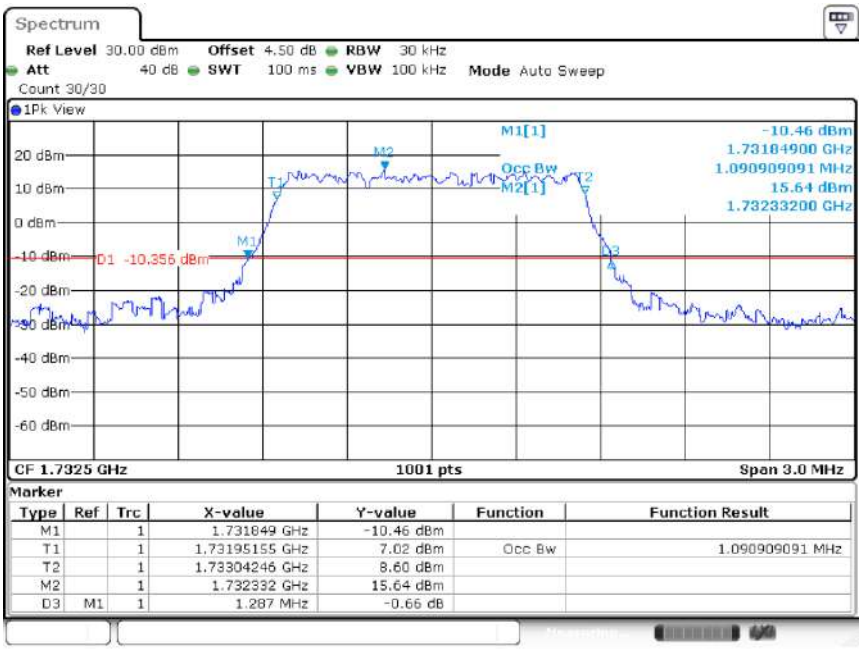


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.710058 GHz	-8.92 dBm		
T1		1	1.71015155 GHz	10.09 dBm	Occ Bw	1.090909091 MHz
T2		1	1.71124246 GHz	8.37 dBm		
M2		1	1.71079 GHz	17.19 dBm		
D3	M1	1	1.287 MHz	-2.24 dB		

Date: 3.SEP.2020 22:02:44

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



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.731849 GHz	-10.46 dBm		
T1		1	1.73195155 GHz	7.02 dBm	Occ Bw	1.090909091 MHz
T2		1	1.73304246 GHz	8.60 dBm		
M2		1	1.732332 GHz	15.64 dBm		
D3	M1	1	1.287 MHz	-0.66 dB		

Date: 3.SEP.2020 22:03:10

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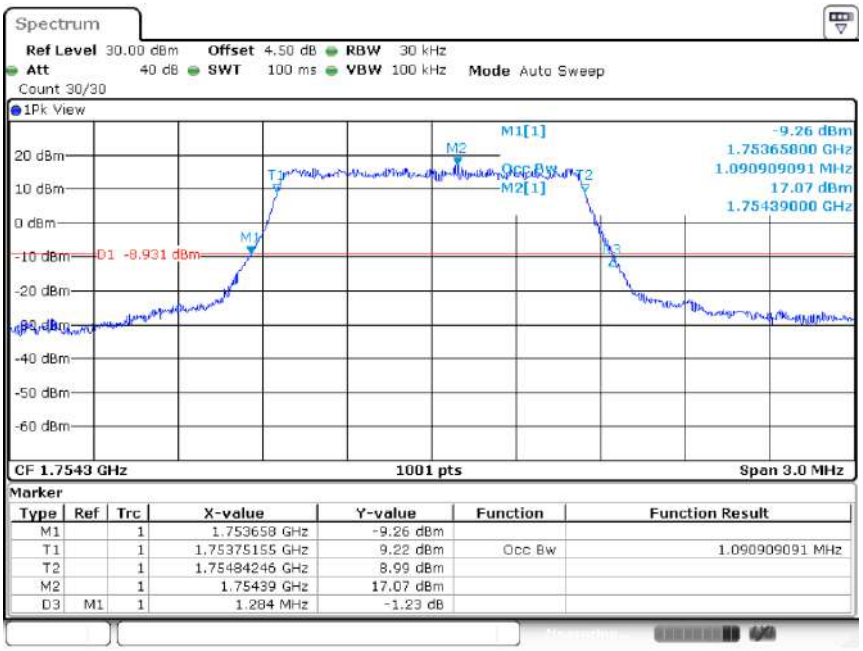
Band4-1.4MHz-QPSK-20393-6RB#0-1.091



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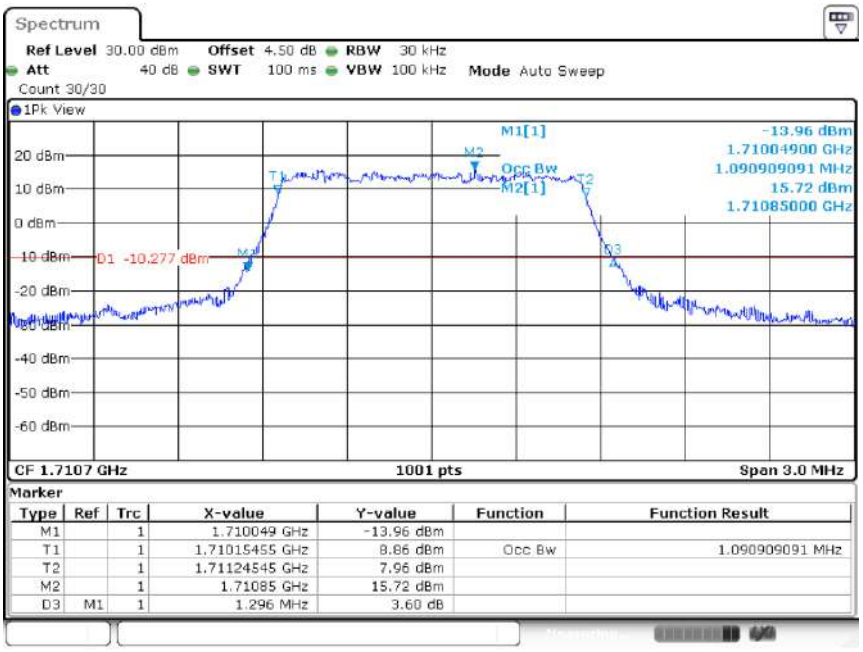

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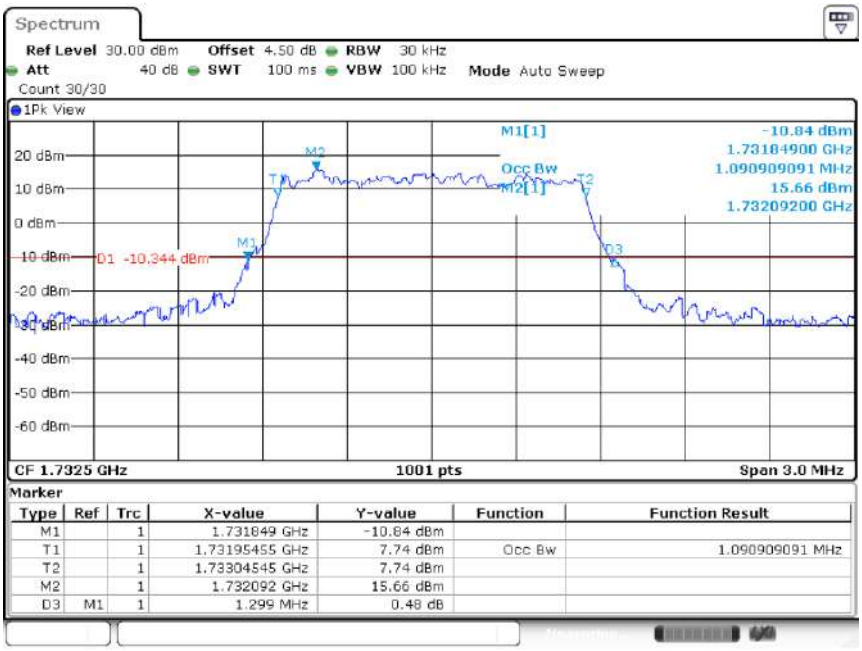

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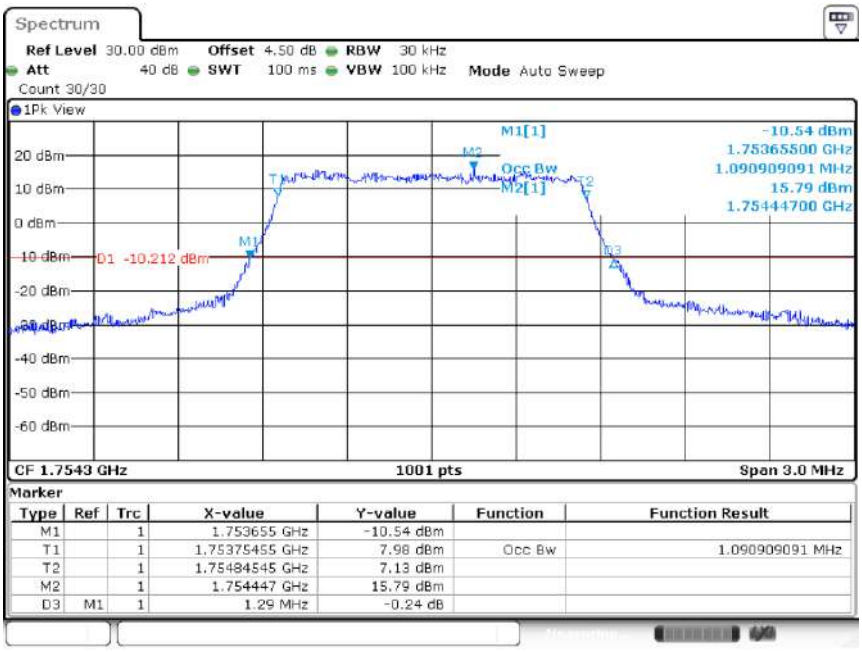

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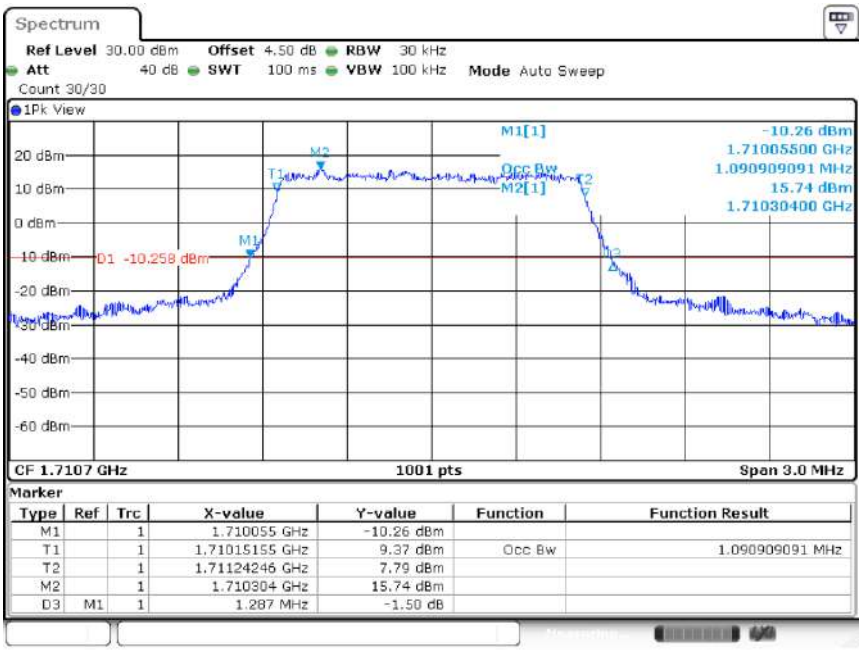
Band4-1.4MHz-16QAM-19957-6RB#0-1.091



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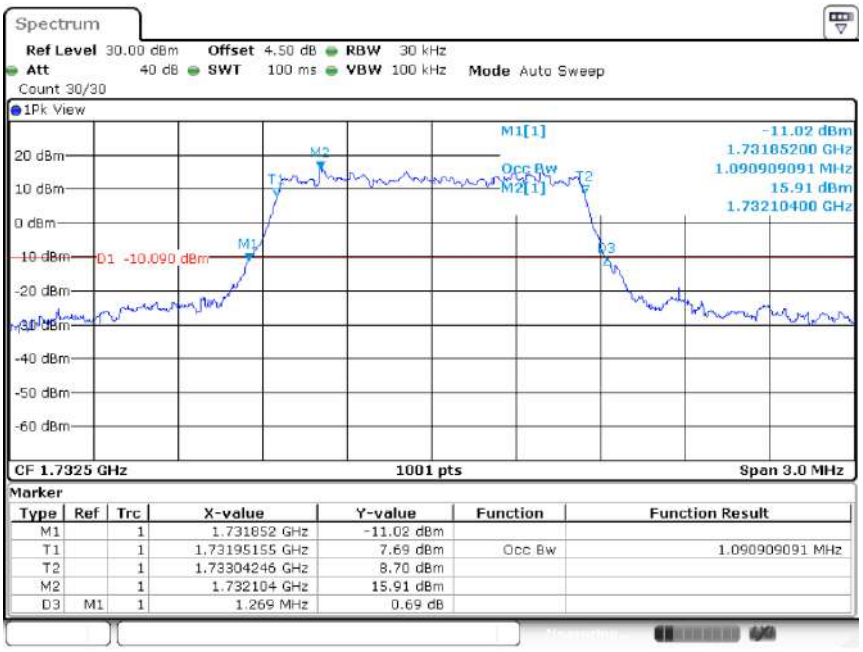

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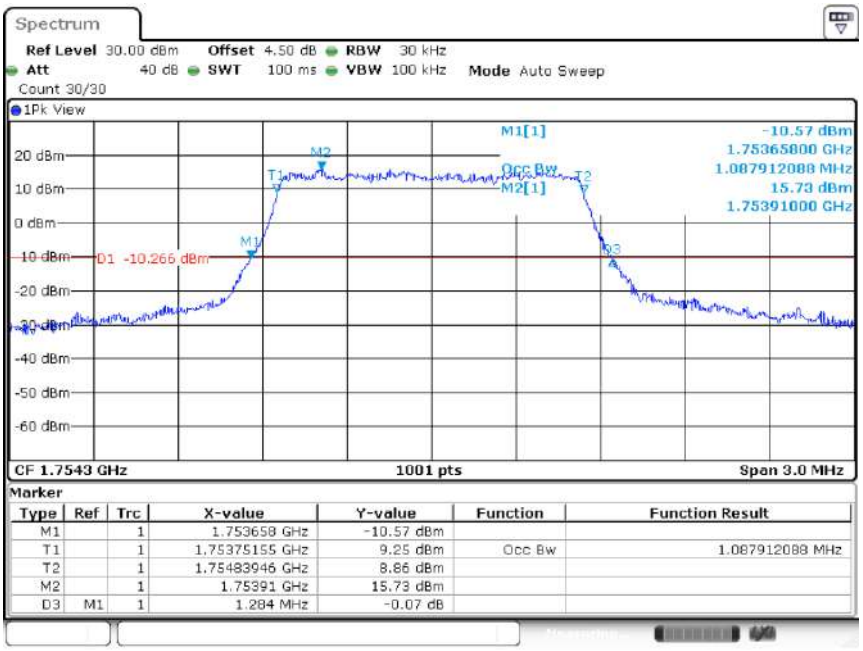
Band4-1.4MHz-16QAM-20393-6RB#0-1.088



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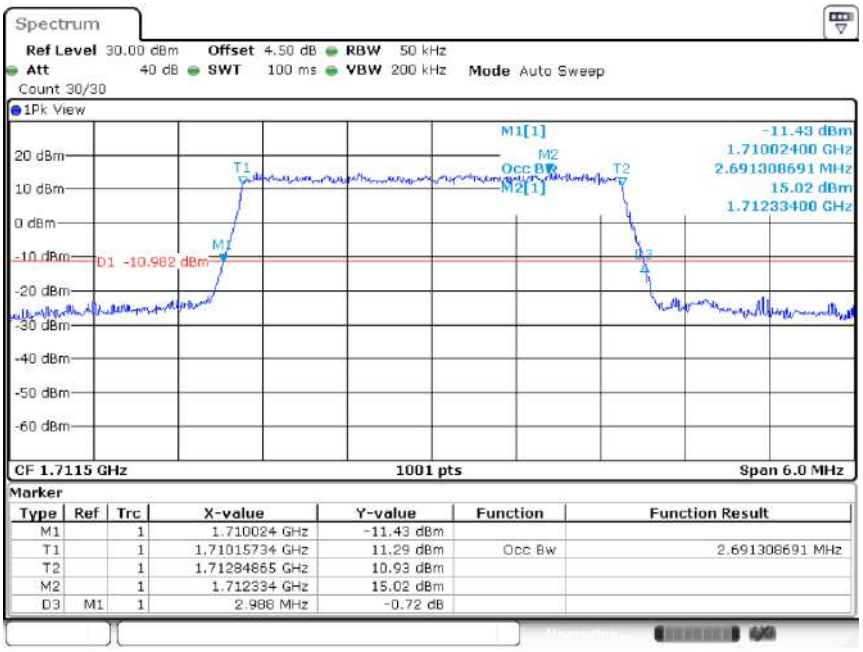
Band4-3MHz-QPSK-19965-15RB#0-2.691



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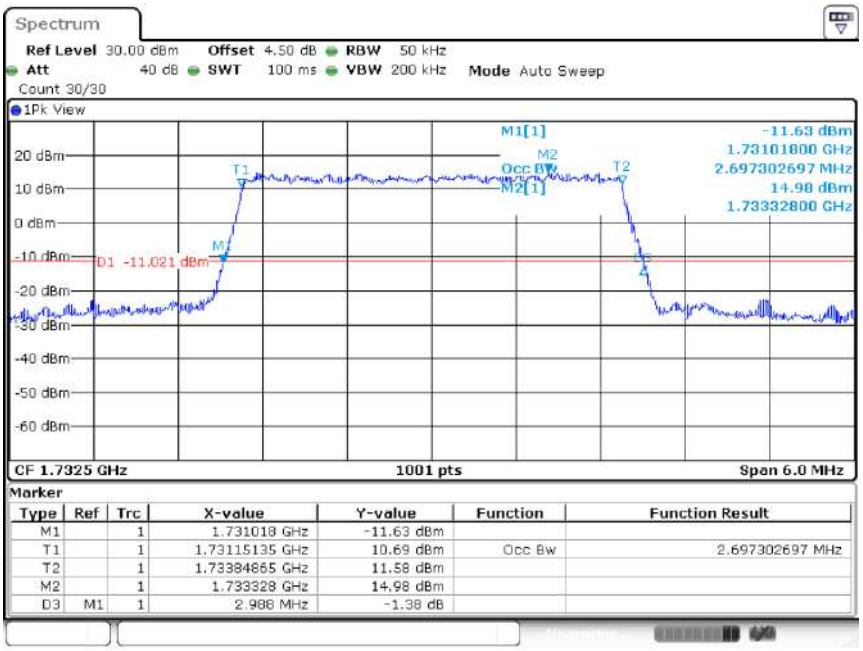
Band4-3MHz-QPSK-20175-15RB#0-2.697



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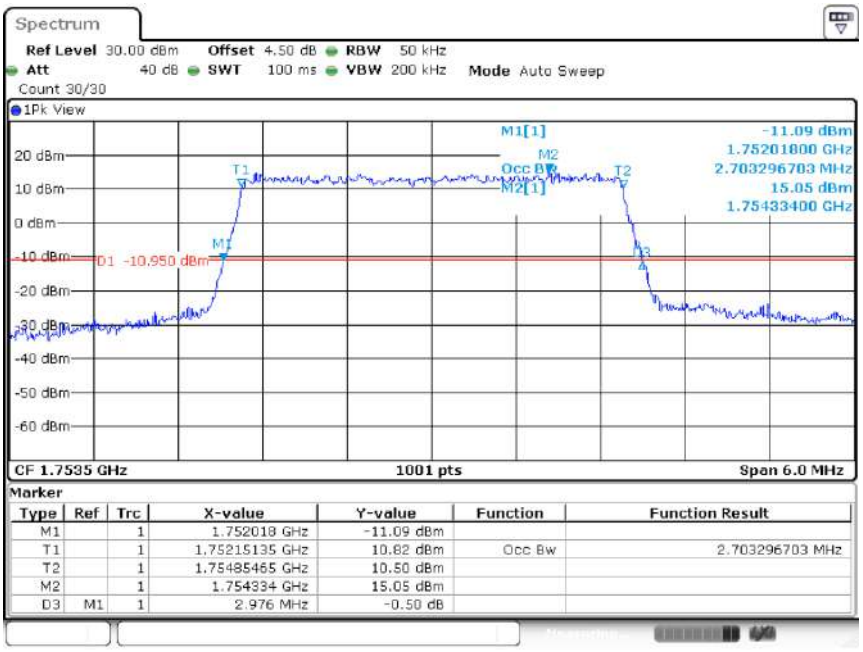

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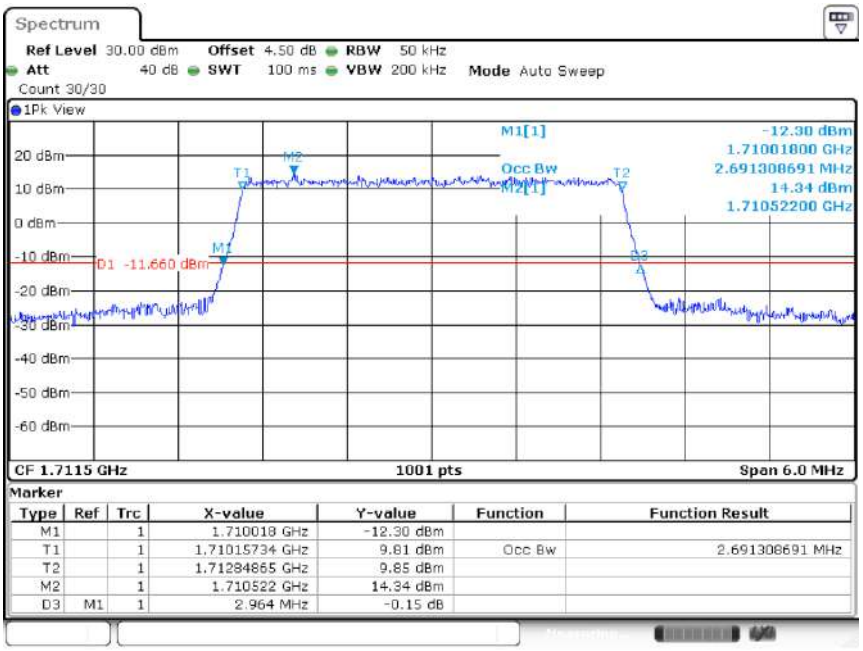
Band4-3MHz-64QAM-19965-15RB#0-2.691



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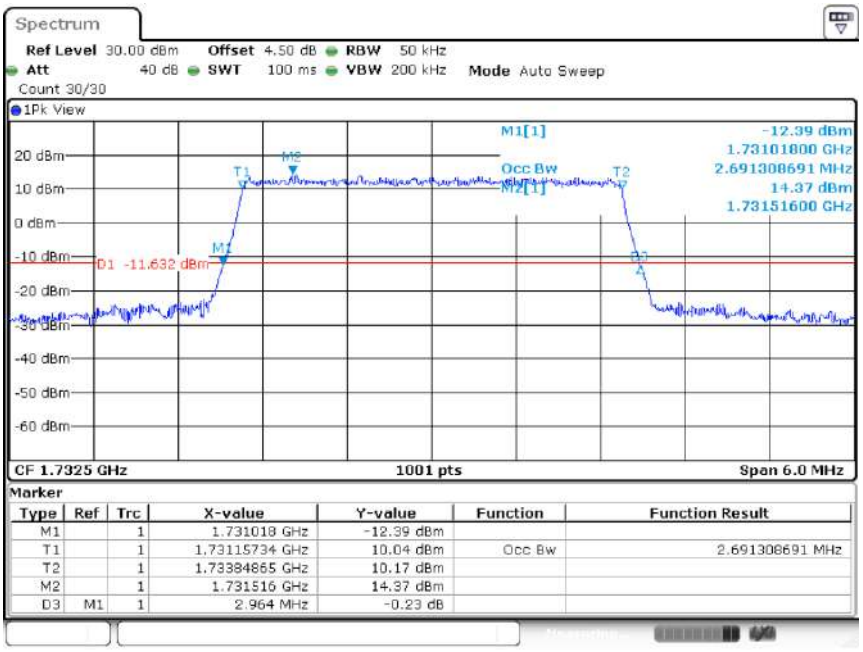
Band4-3MHz-64QAM-20175-15RB#0-2.691



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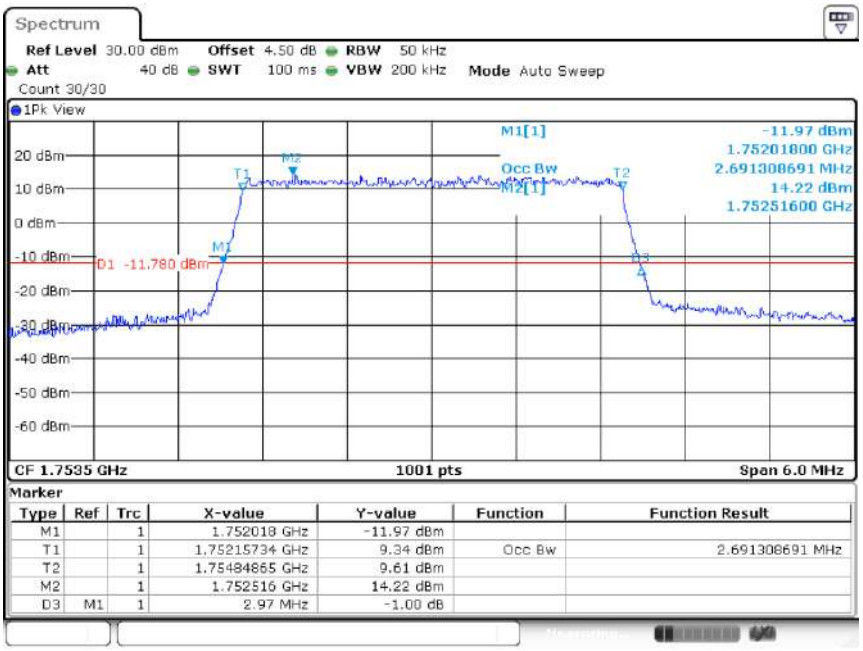
Band4-3MHz-64QAM-20385-15RB#0-2.691



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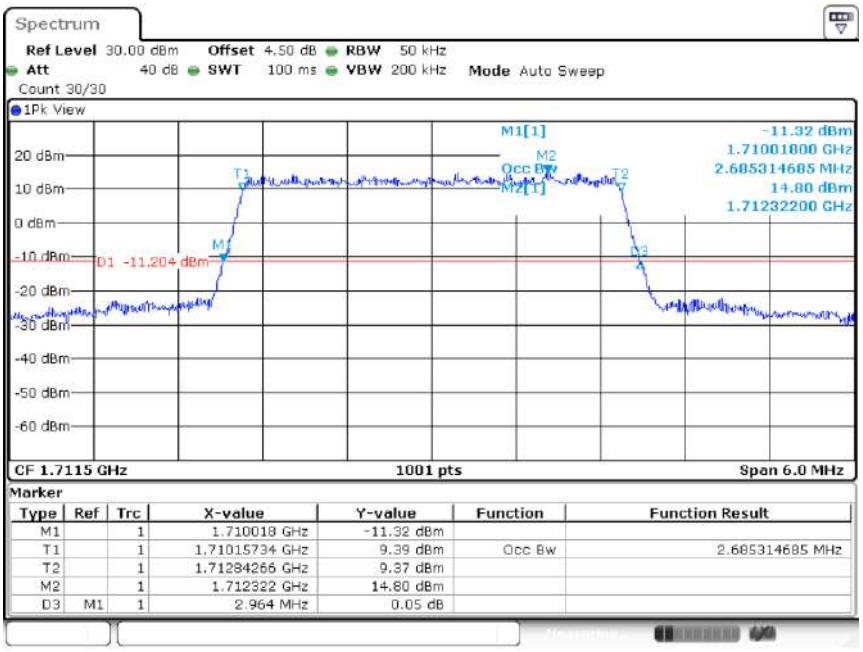
Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 3.SEP.2020 22:04:18

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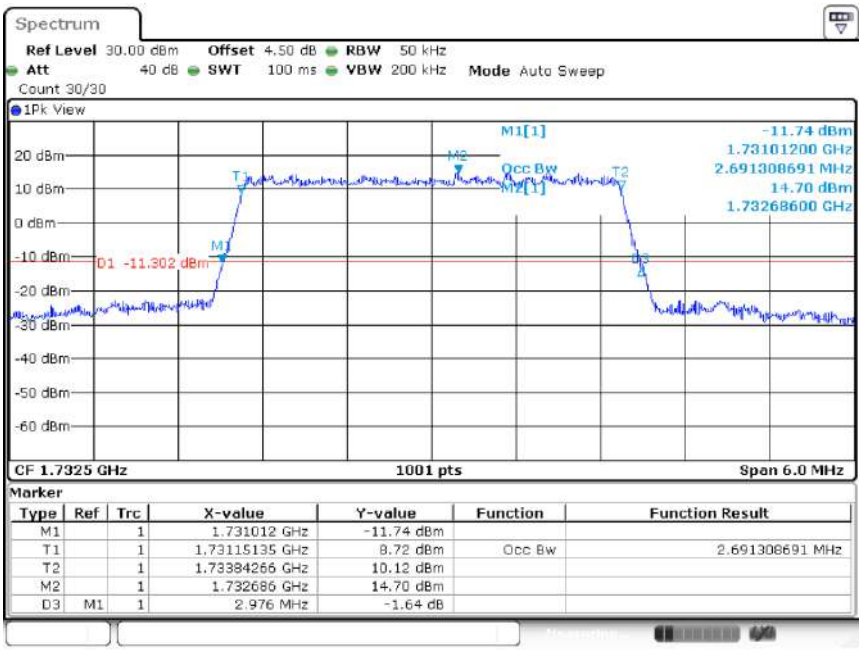

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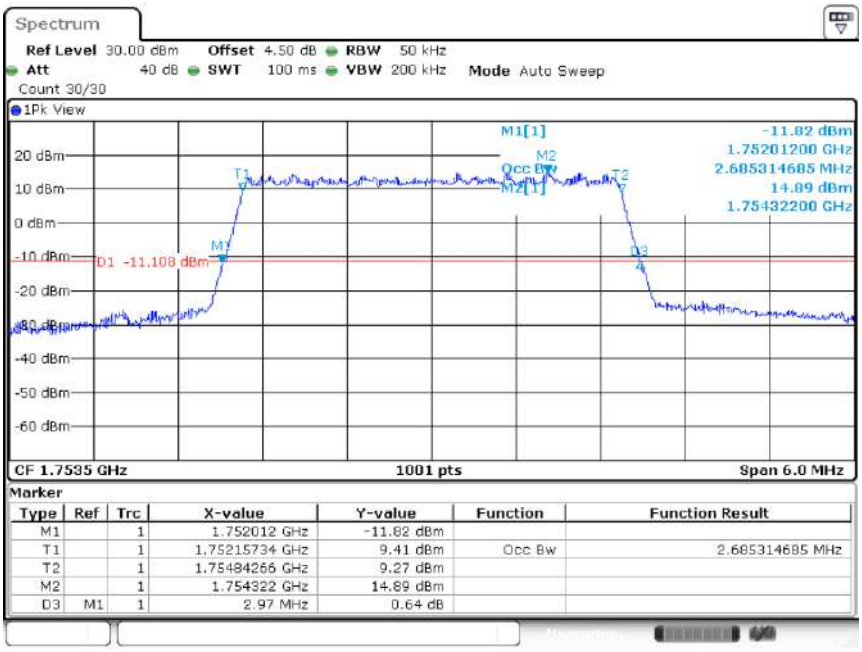
Band4-3MHz-16QAM-20385-15RB#0-2.685



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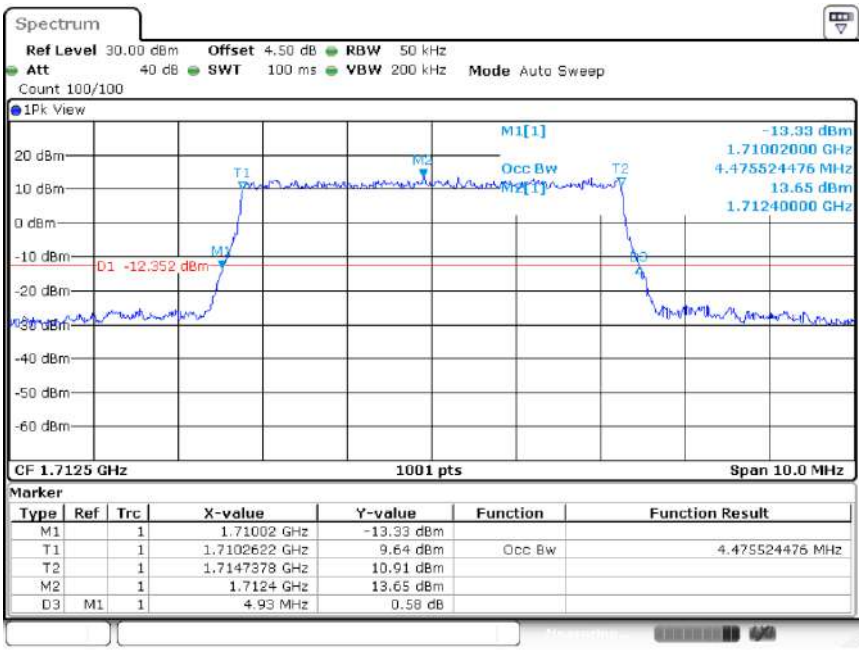
Band4-5MHz-QPSK-19975-25RB#0-4.476



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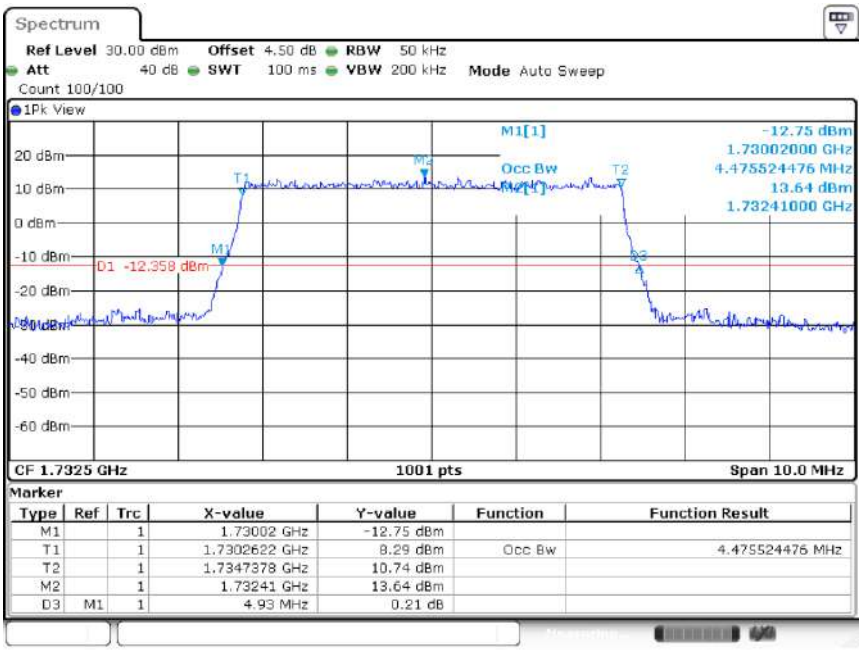
Band4-5MHz-QPSK-20175-25RB#0-4.476



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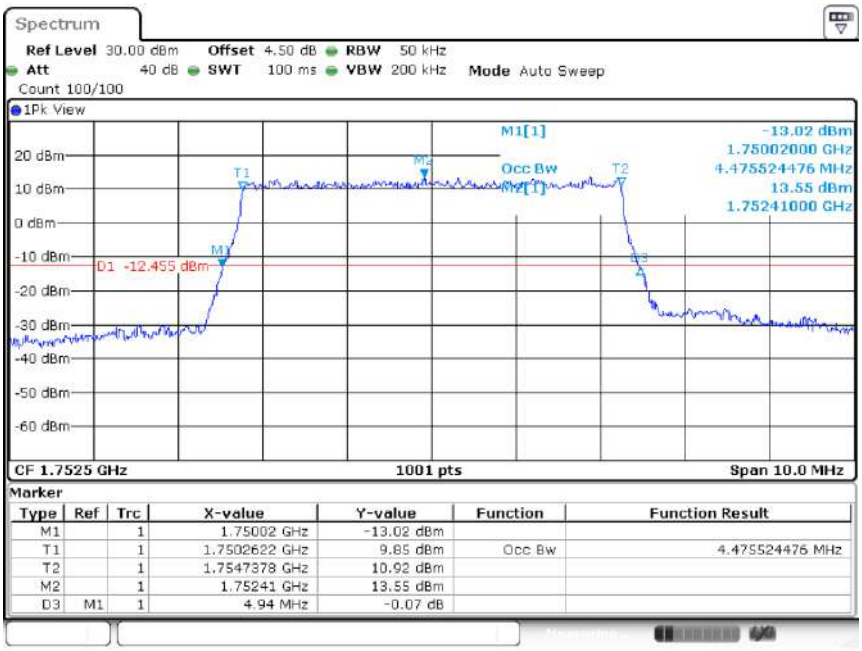
Band4-5MHz-QPSK-20375-25RB#0-4.476



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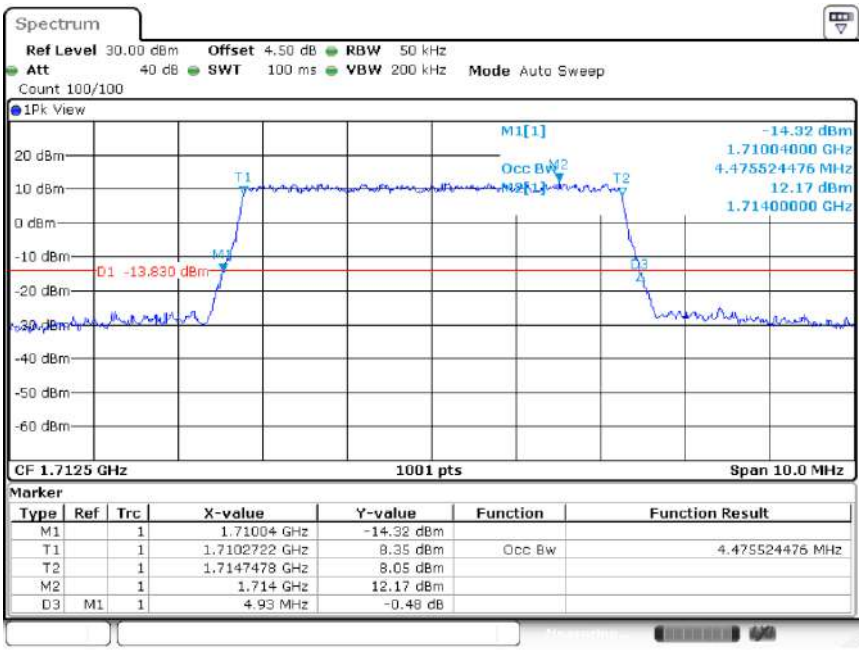
Band4-5MHz-64QAM-19975-25RB#0-4.476



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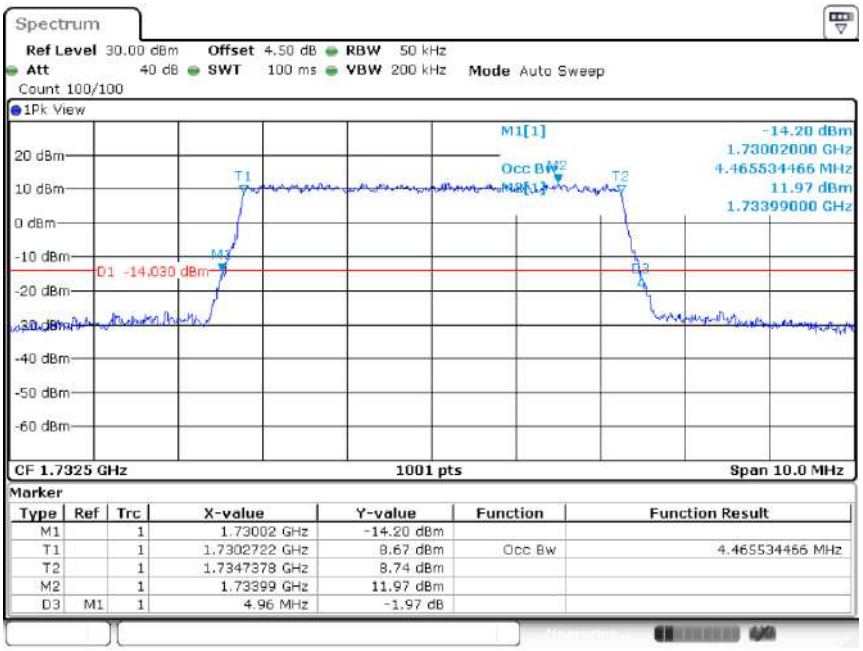
Band4-5MHz-64QAM-20175-25RB#0-4.466



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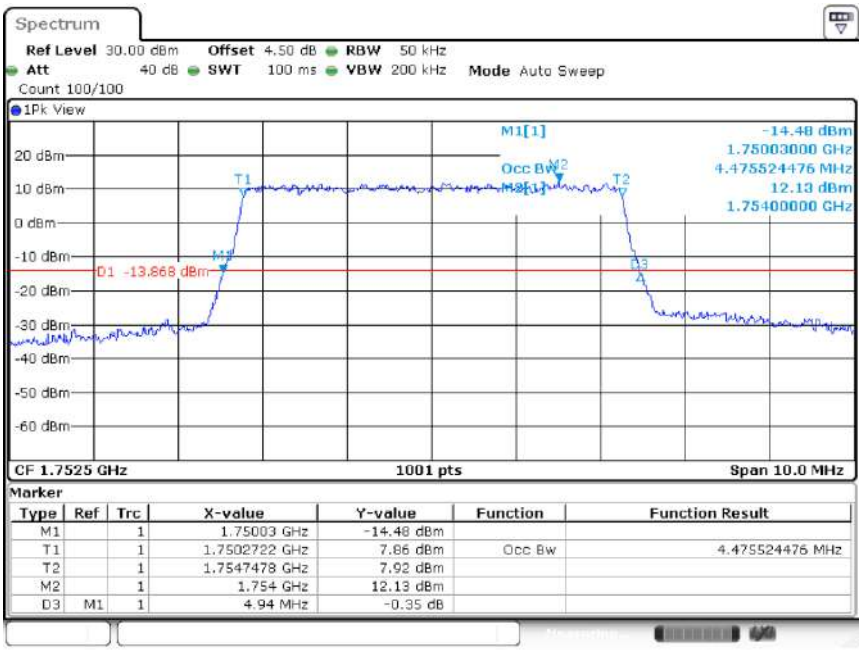
Band4-5MHz-64QAM-20375-25RB#0-4.476



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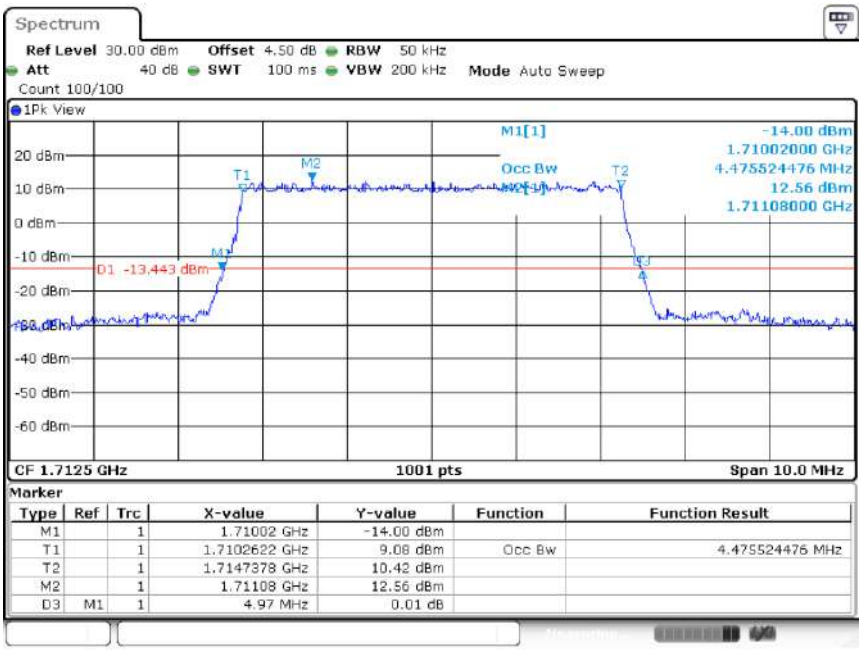
Band4-5MHz-16QAM-19975-25RB#0-4.476



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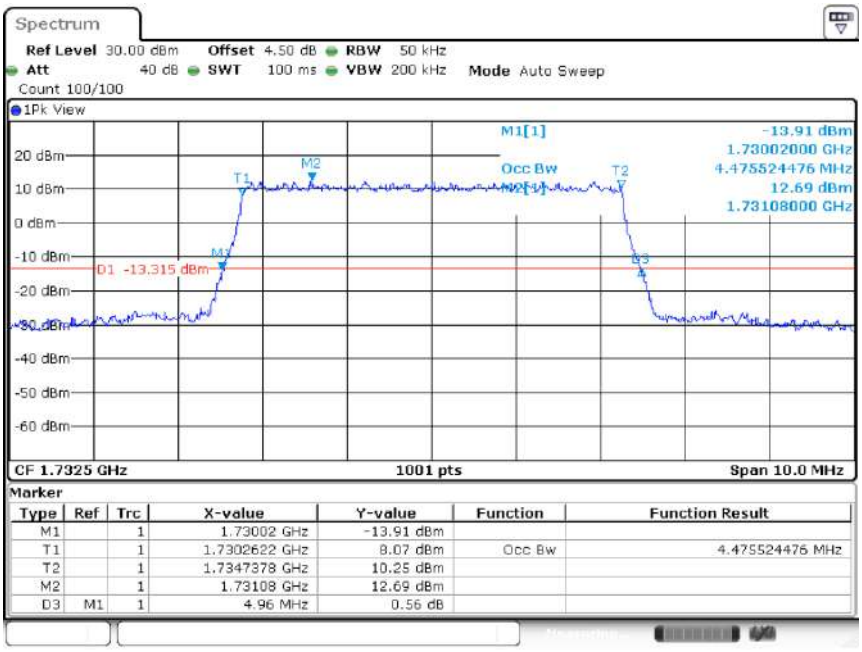
Band4-5MHz-16QAM-20175-25RB#0-4.476



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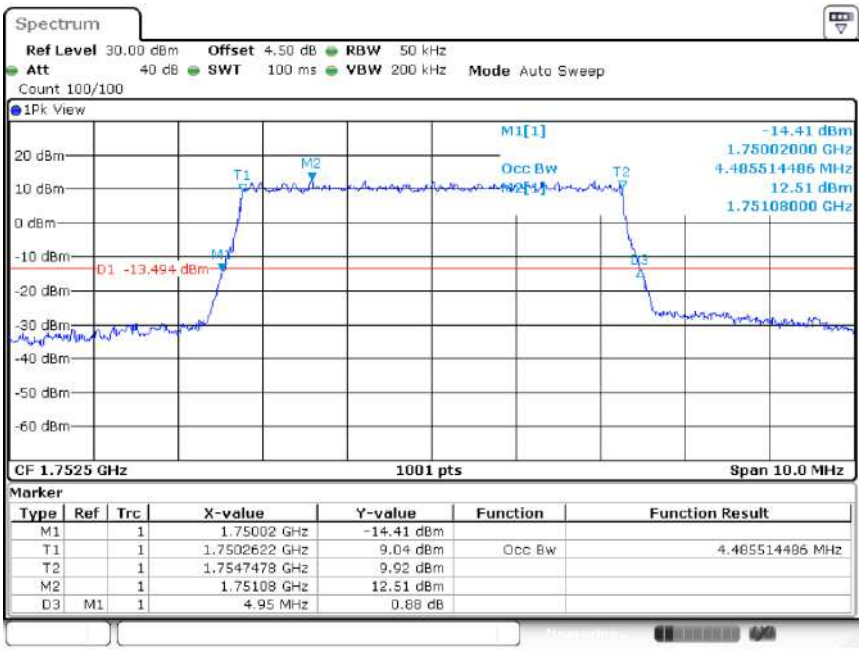
Band4-5MHz-16QAM-20375-25RB#0-4.486



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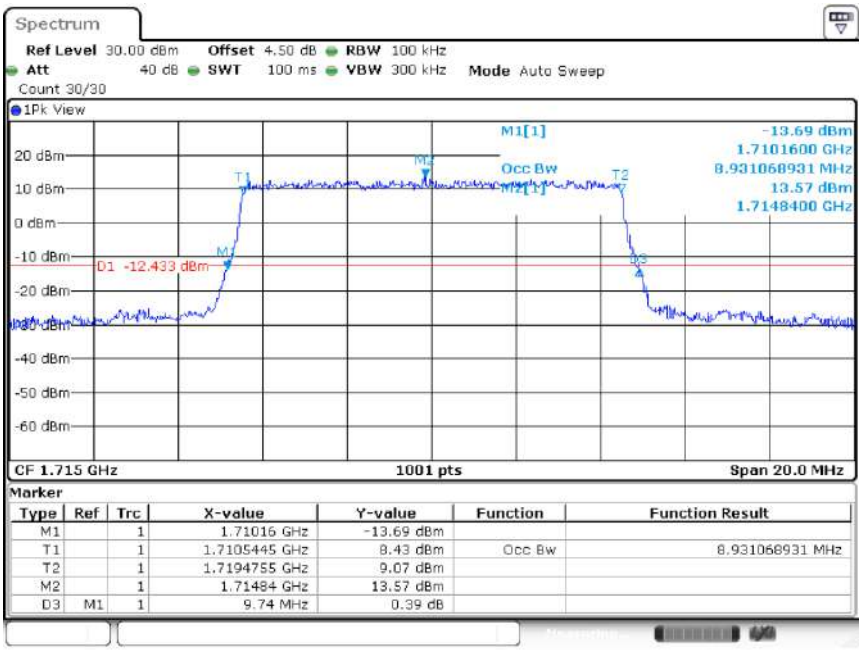
Band4-10MHz-QPSK-20000-50RB#0-8.931



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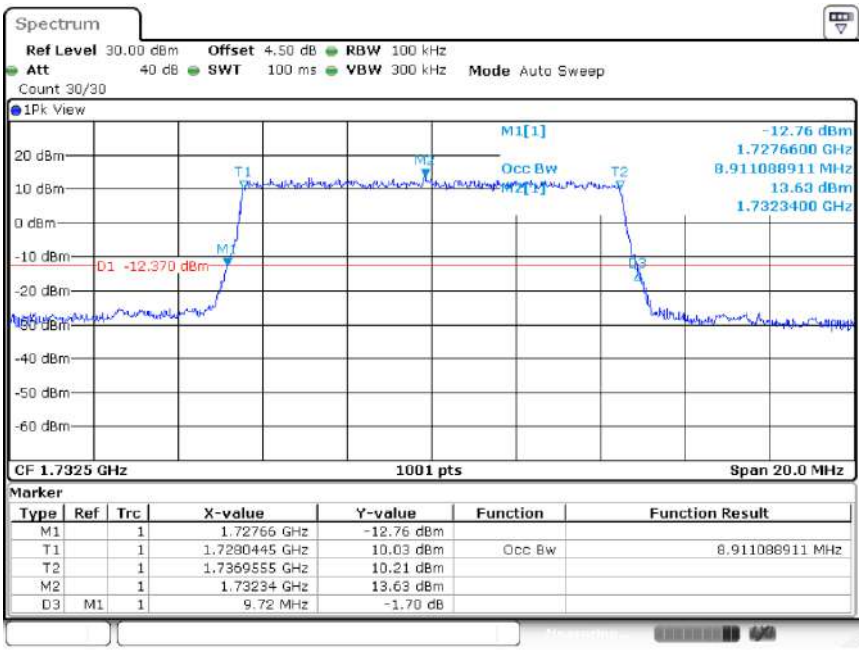
Band4-10MHz-QPSK-20175-50RB#0-8.911



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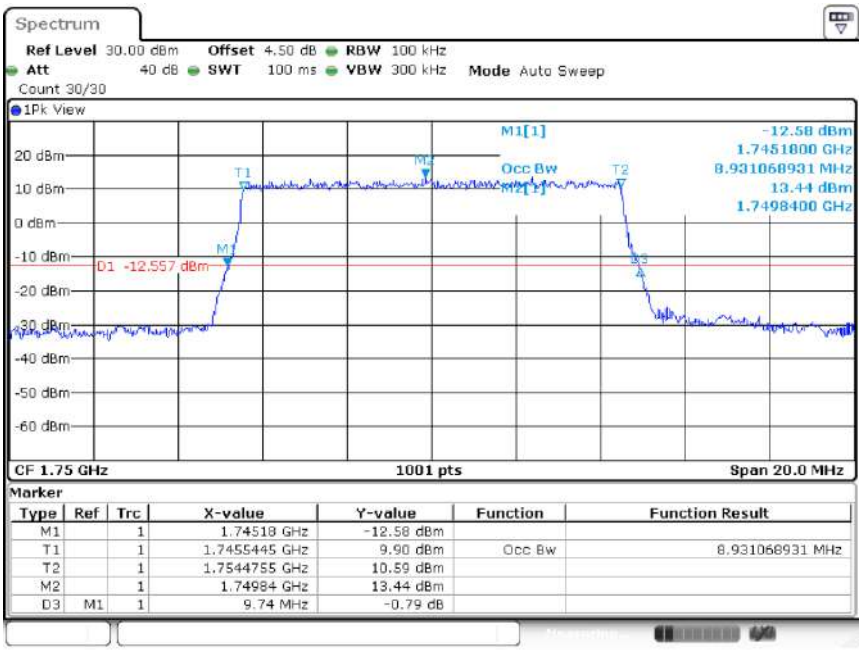
Band4-10MHz-QPSK-20350-50RB#0-8.931



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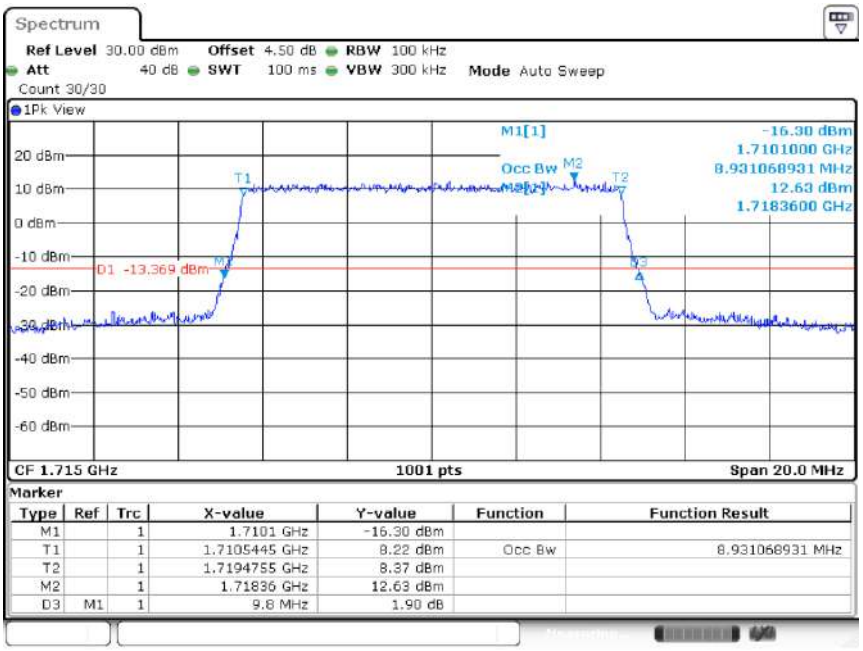
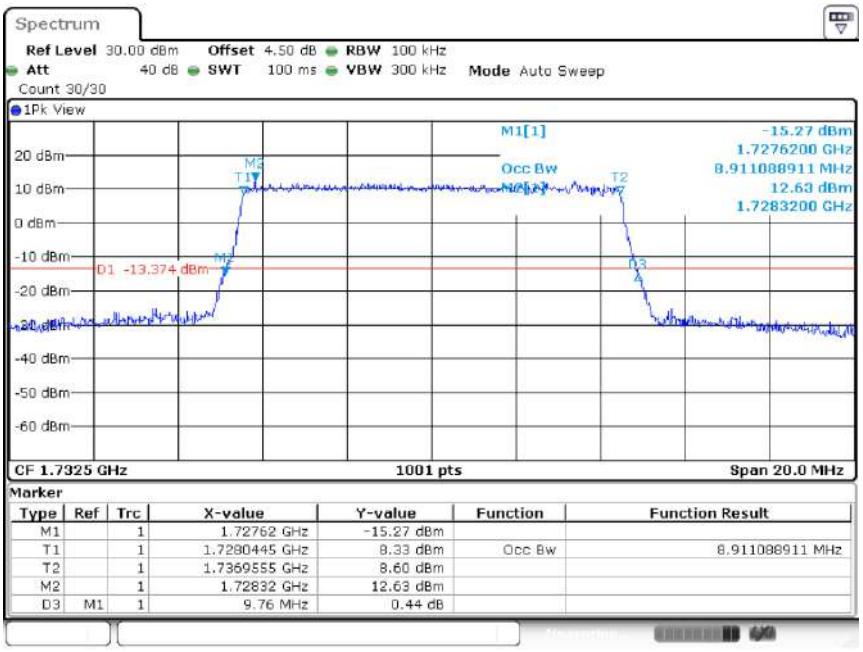


Date: 3.SEP.2020 23:55:36

Band4-10MHz-64QAM-20175-50RB#0-8.911



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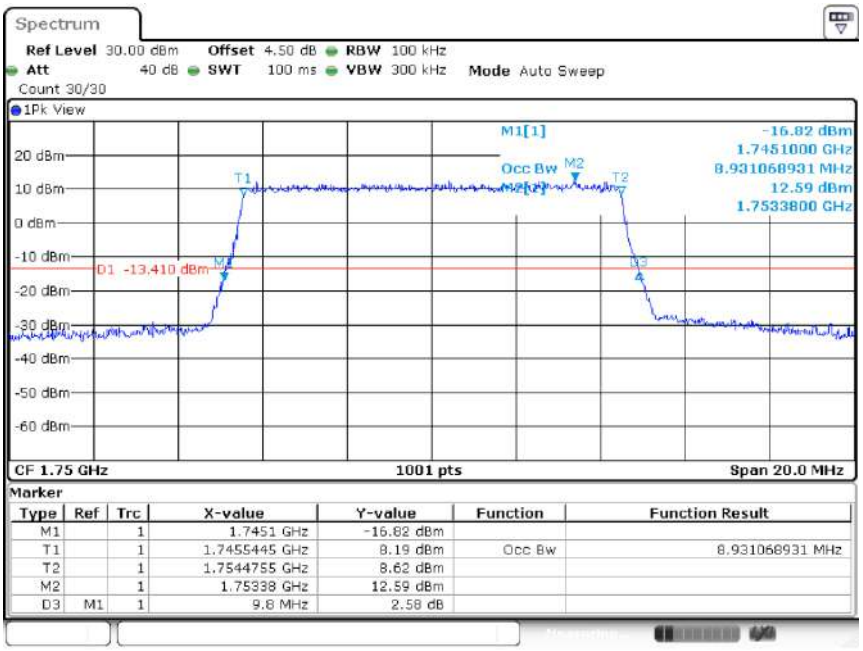
Band4-10MHz-64QAM-20350-50RB#0-8.931



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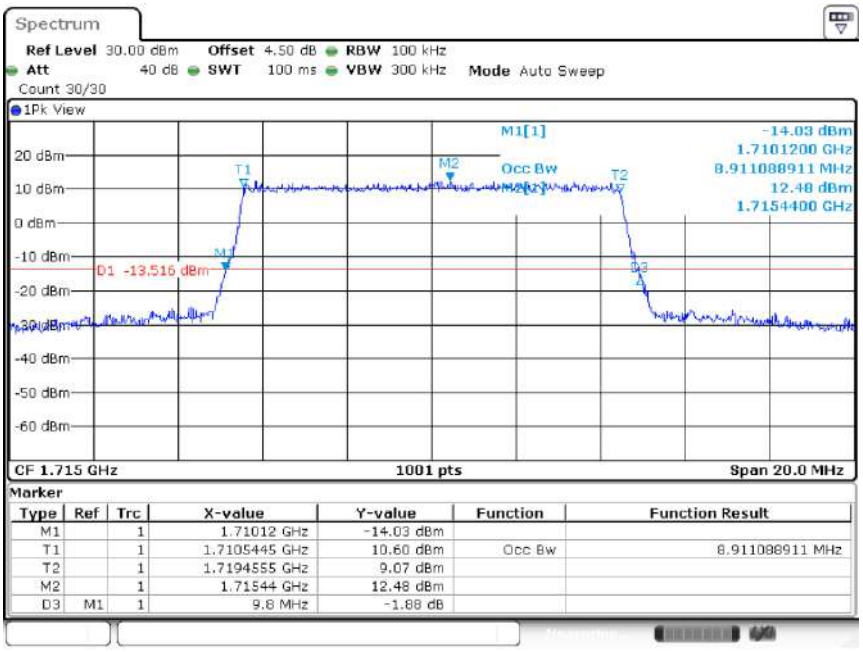
Band4-10MHz-16QAM-20000-50RB#0-8.911



Date: 3.SEP.2020 22:07:46

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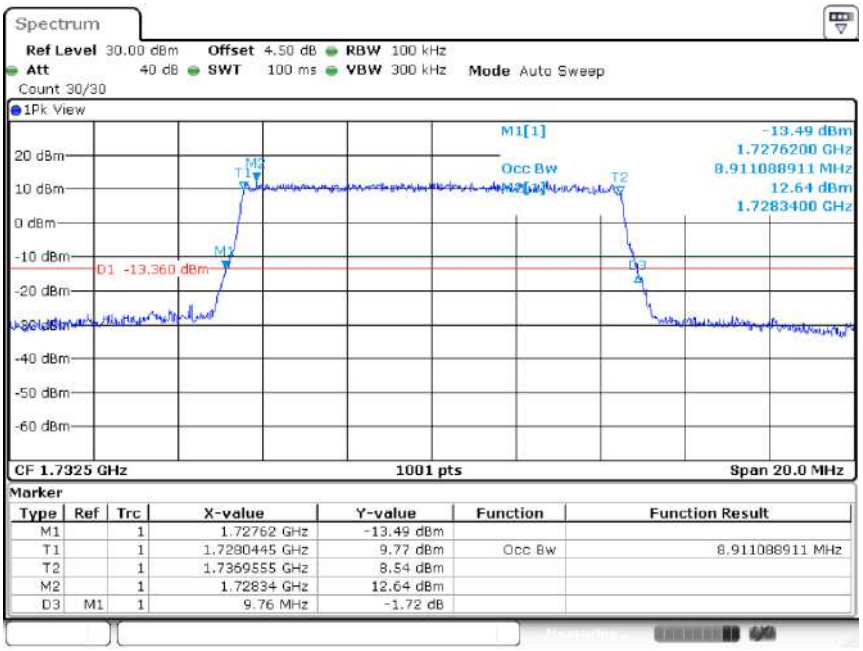
Band4-10MHz-16QAM-20175-50RB#0-8.911



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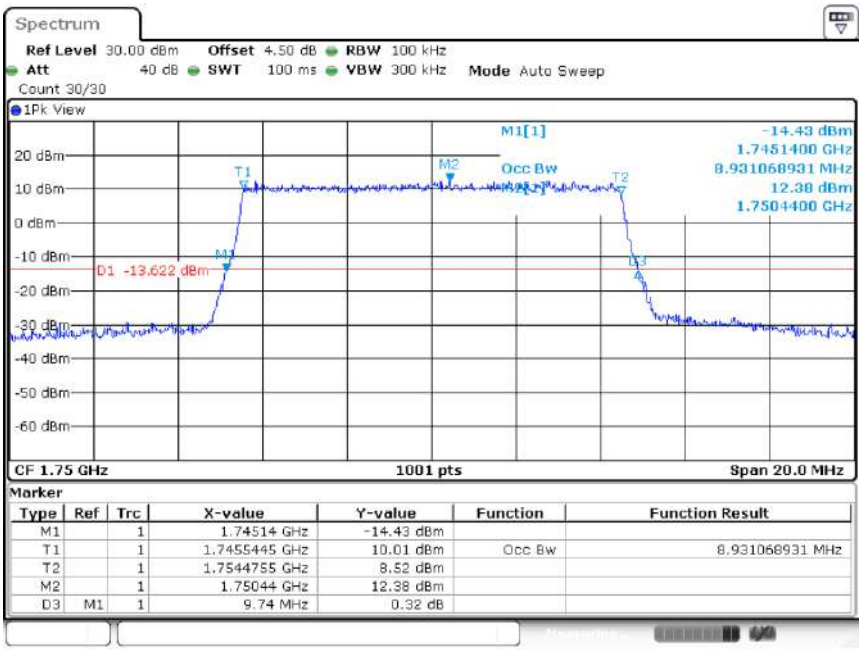
Band4-10MHz-16QAM-20350-50RB#0-8.931



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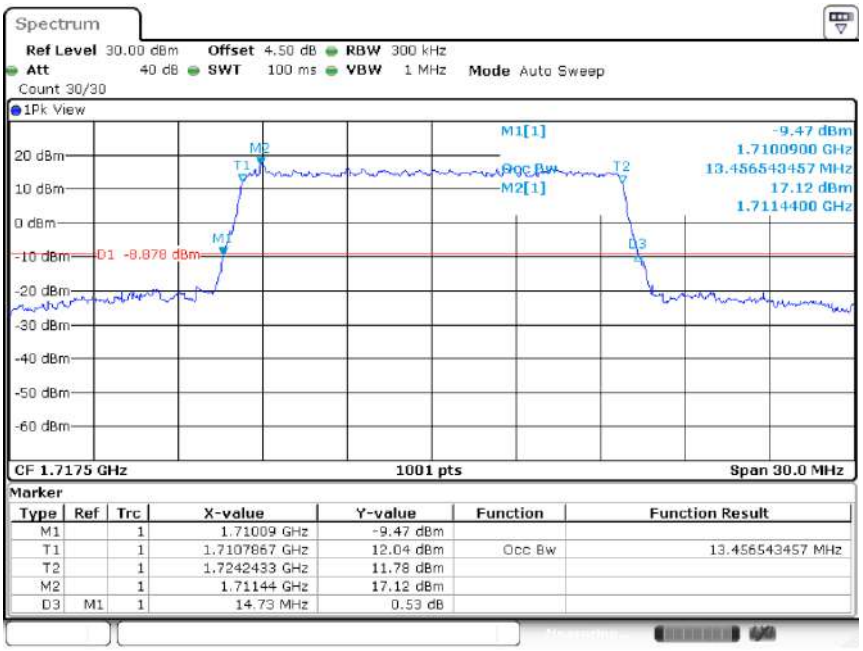
Band4-15MHz-QPSK-20025-75RB#0-13.457



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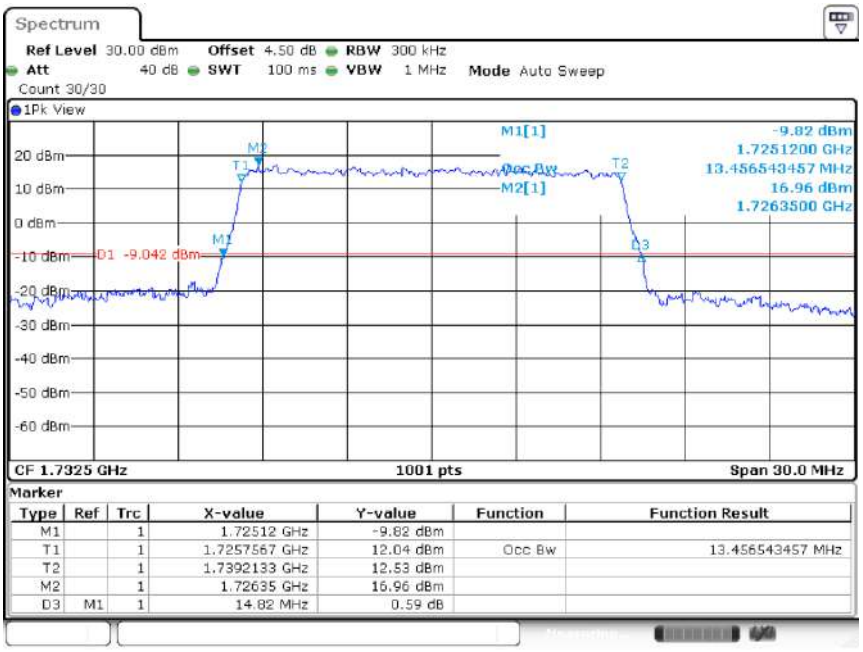
Band4-15MHz-QPSK-20175-75RB#0-13.457



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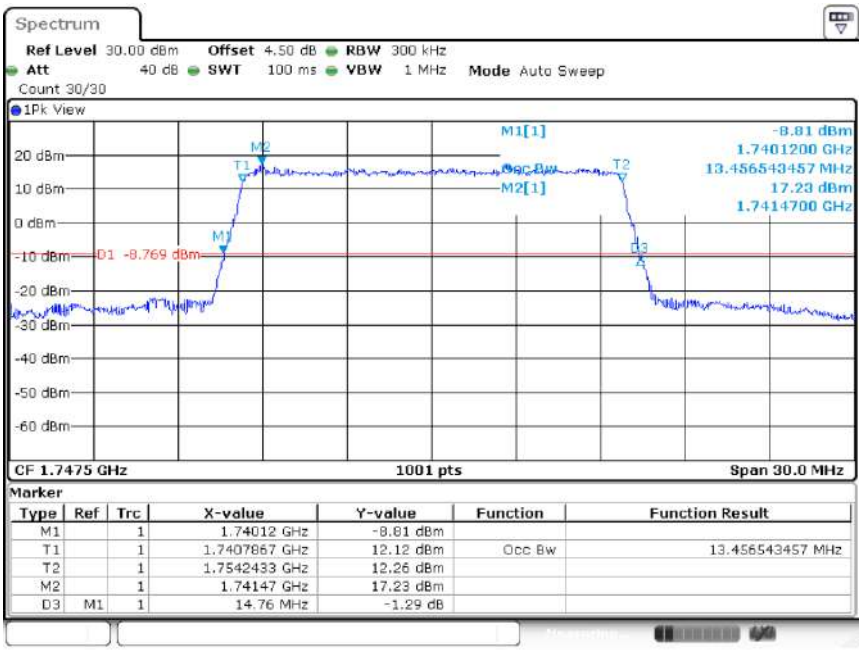

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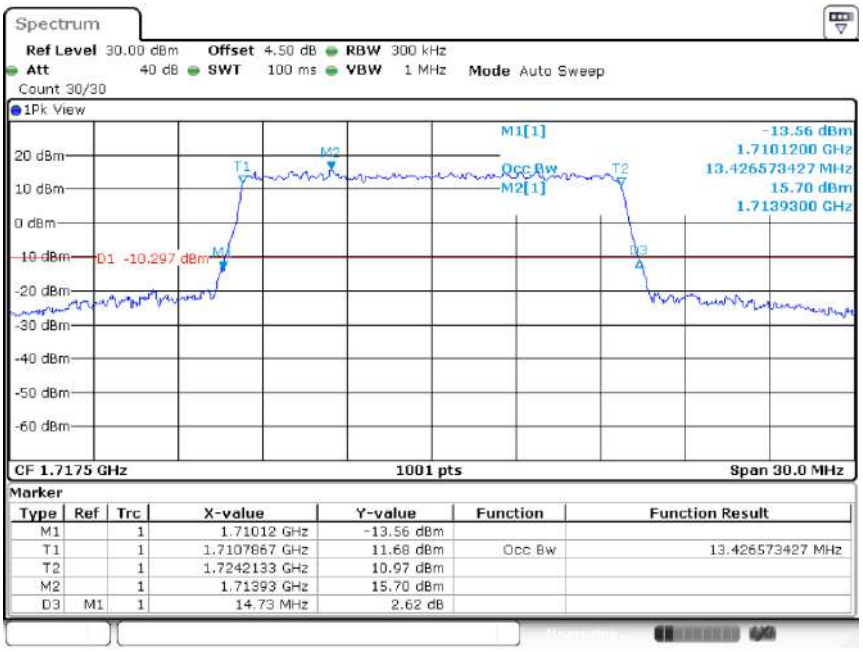
Band4-15MHz-64QAM-20025-75RB#0-13.427



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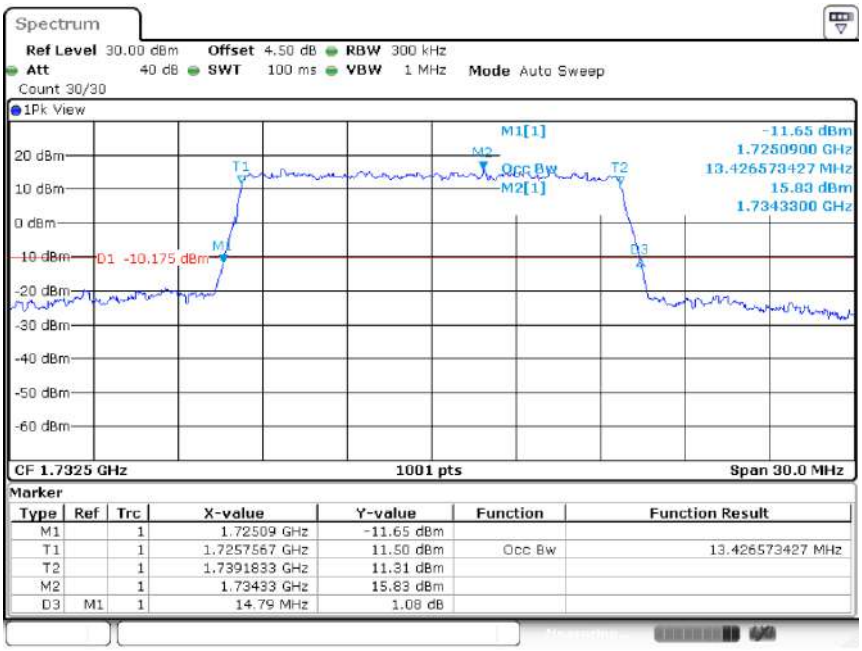
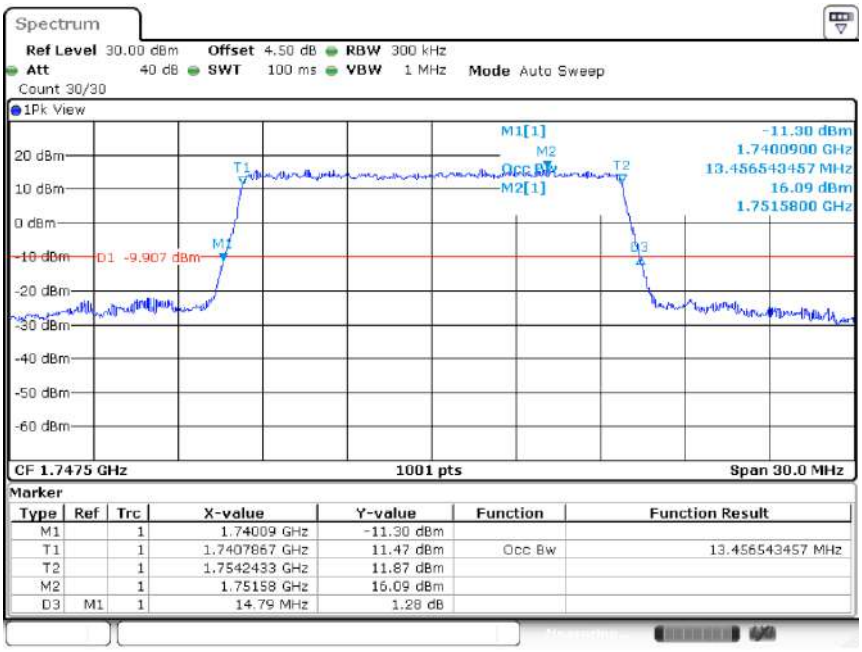


Date: 3.SEP.2020 23:56:33

Band4-15MHz-64QAM-20325-75RB#0-13.457



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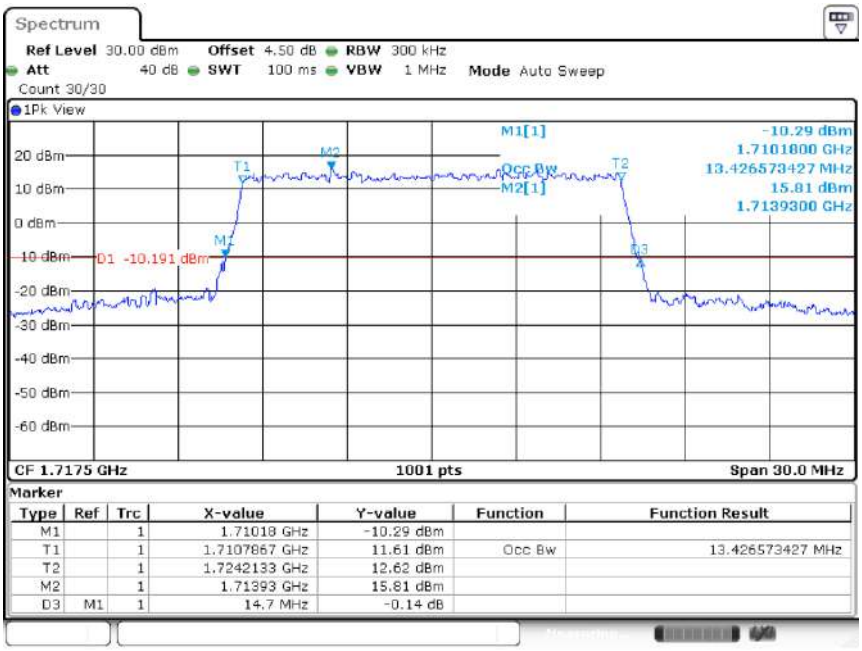
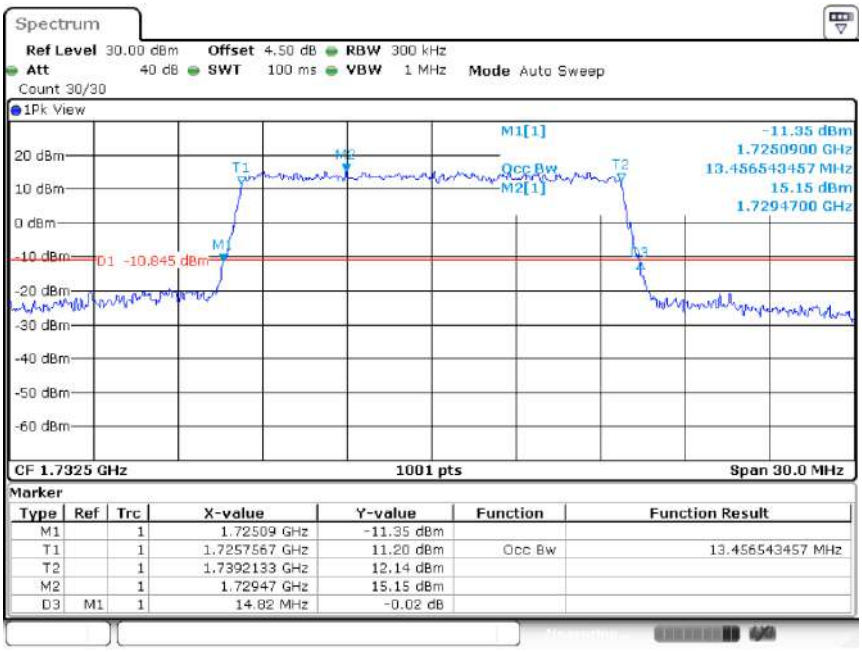


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.71018 GHz	-10.29 dBm		
T1		1	1.7107867 GHz	11.61 dBm	Occ Bw	13.426573427 MHz
T2		1	1.7242133 GHz	12.62 dBm		
M2		1	1.71393 GHz	15.81 dBm		
D3	M1	1	14.7 MHz	-0.14 dB		

Date: 3.SEP.2020 22:09:09

Band4-15MHz-16QAM-20175-75RB#0-13.457



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.72509 GHz	-11.35 dBm		
T1		1	1.7257567 GHz	11.20 dBm	Occ Bw	13.456543457 MHz
T2		1	1.7392133 GHz	12.14 dBm		
M2		1	1.72947 GHz	15.15 dBm		
D3	M1	1	14.82 MHz	-0.02 dB		

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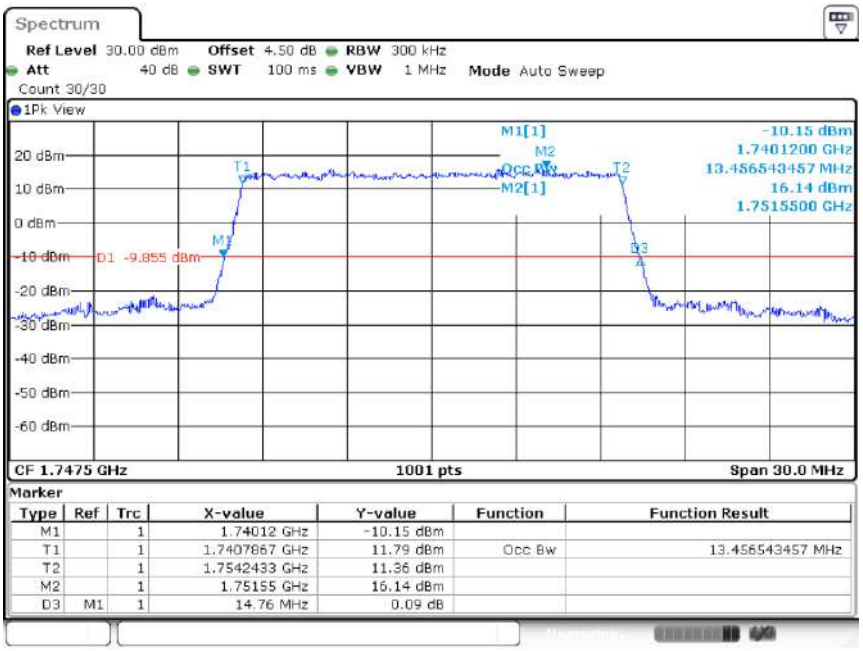

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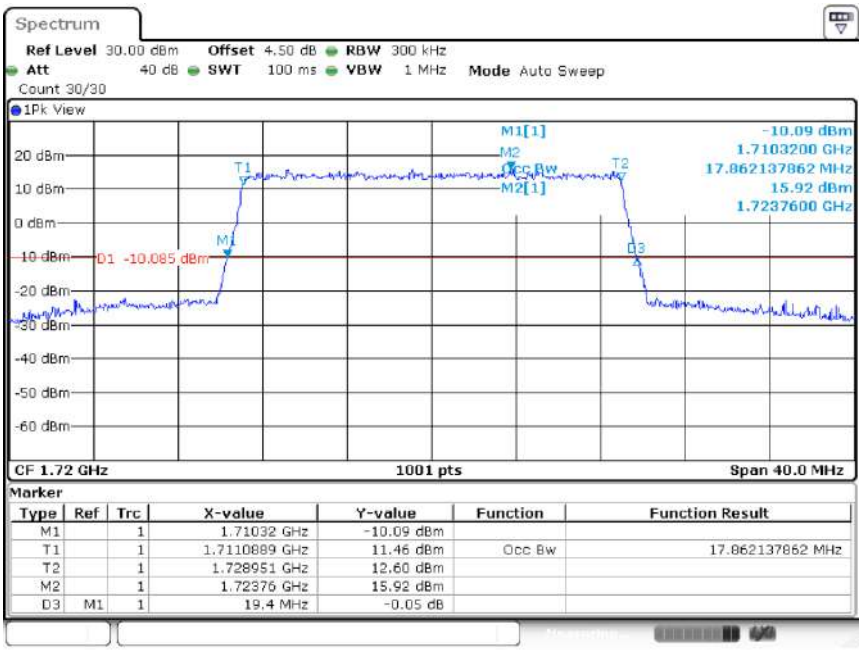
Band4-20MHz-QPSK-20050-100RB#0-17.862



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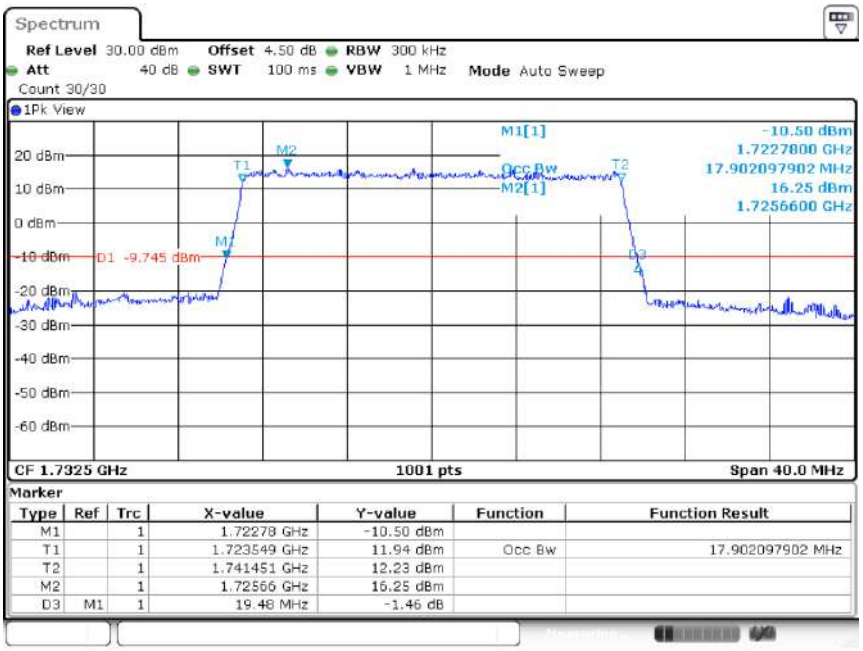

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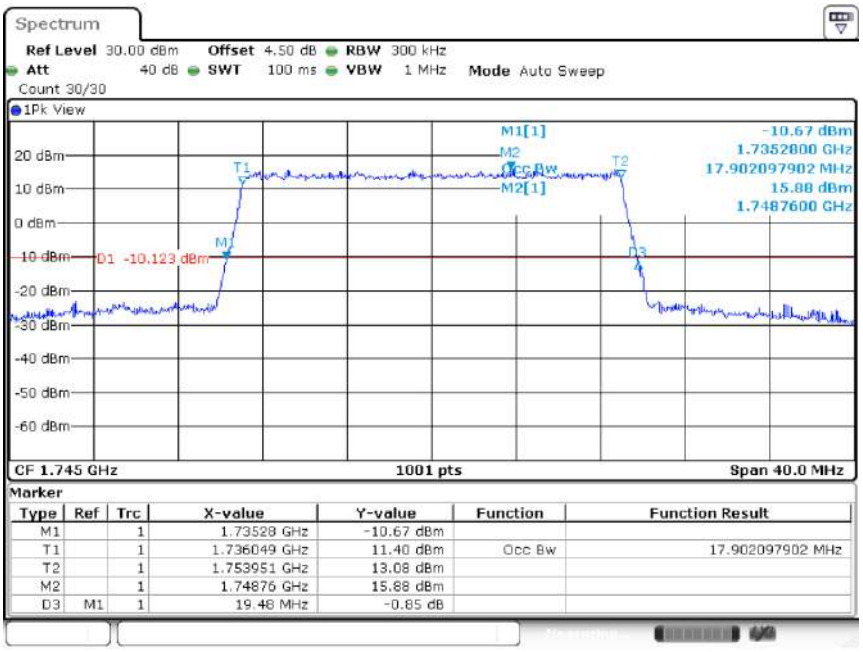

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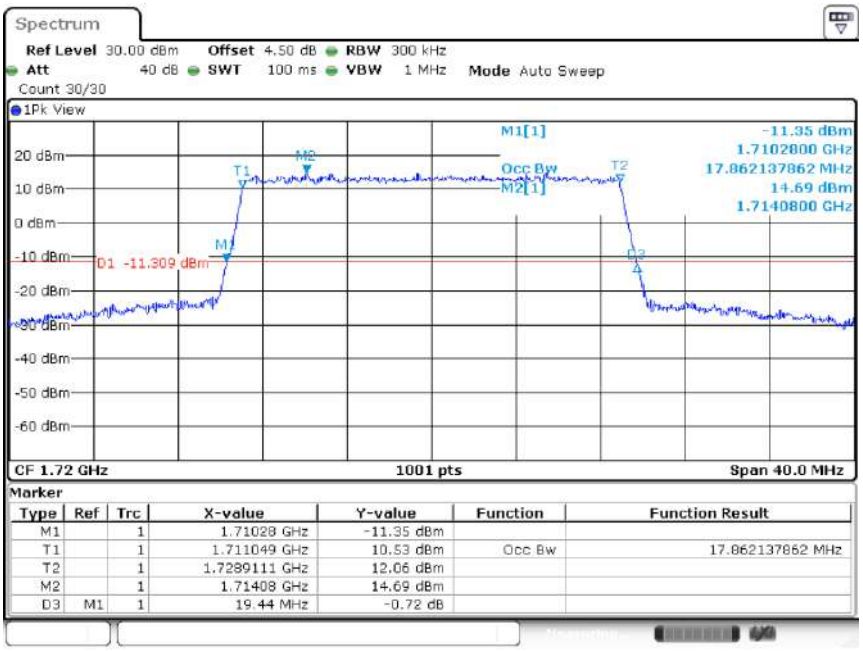
Band4-20MHz-64QAM-20050-100RB#0-17.862



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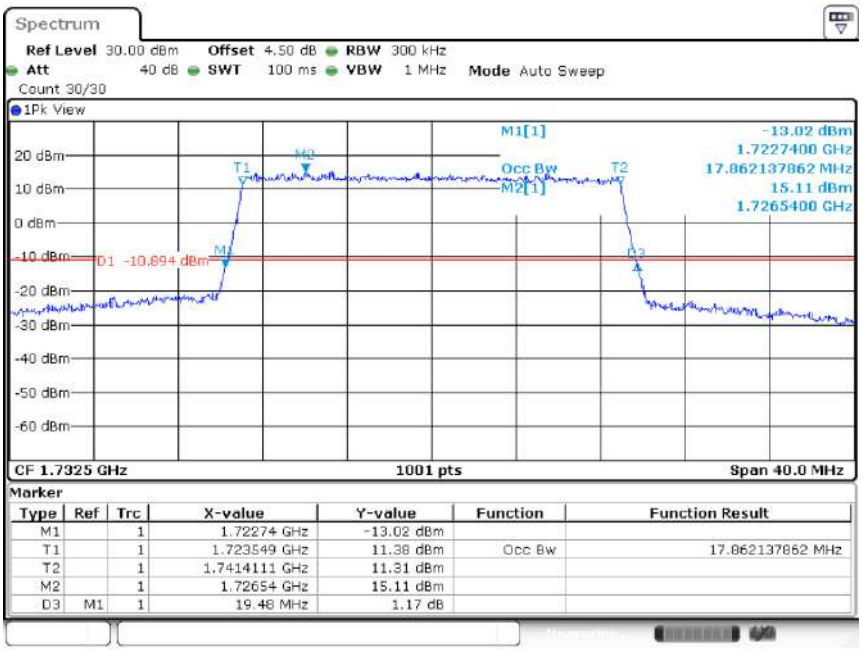
Band4-20MHz-64QAM-20175-100RB#0-17.862



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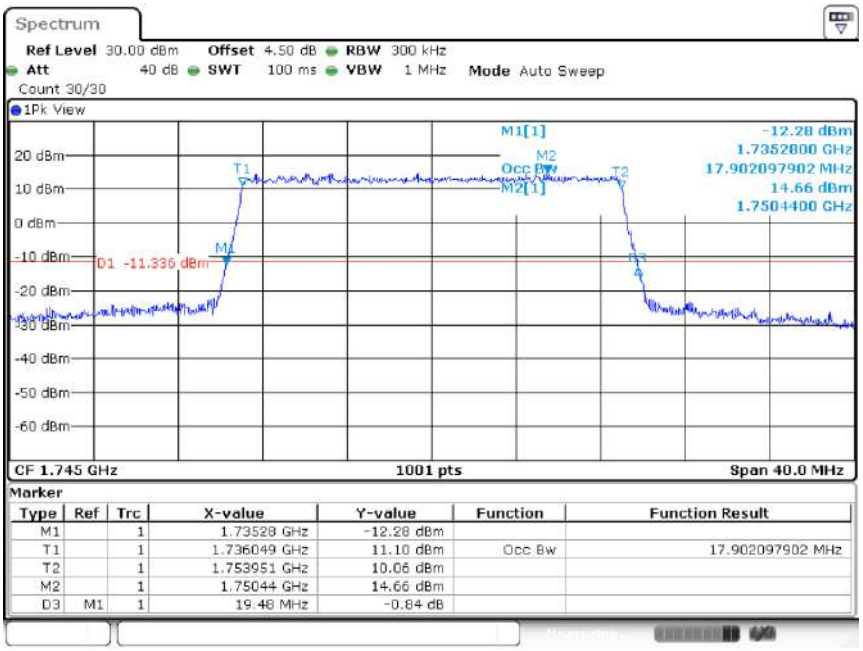
Band4-20MHz-64QAM-20300-100RB#0-17.902



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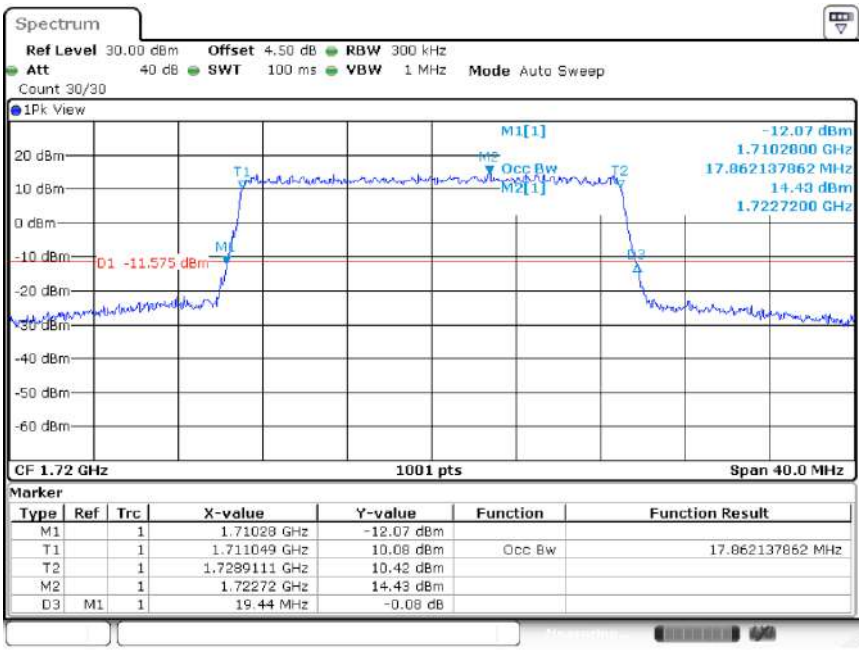

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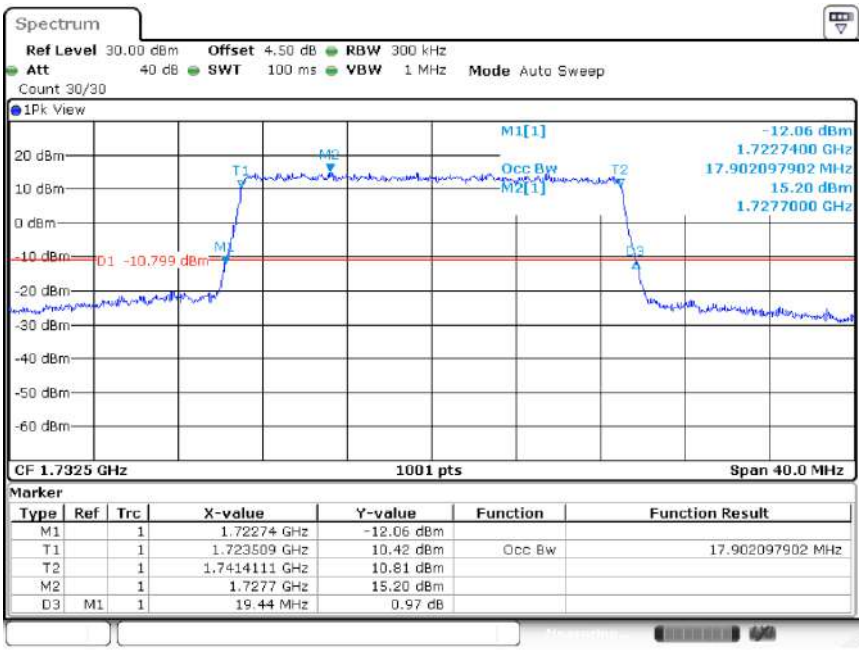
Band4-20MHz-16QAM-20175-100RB#0-17.902



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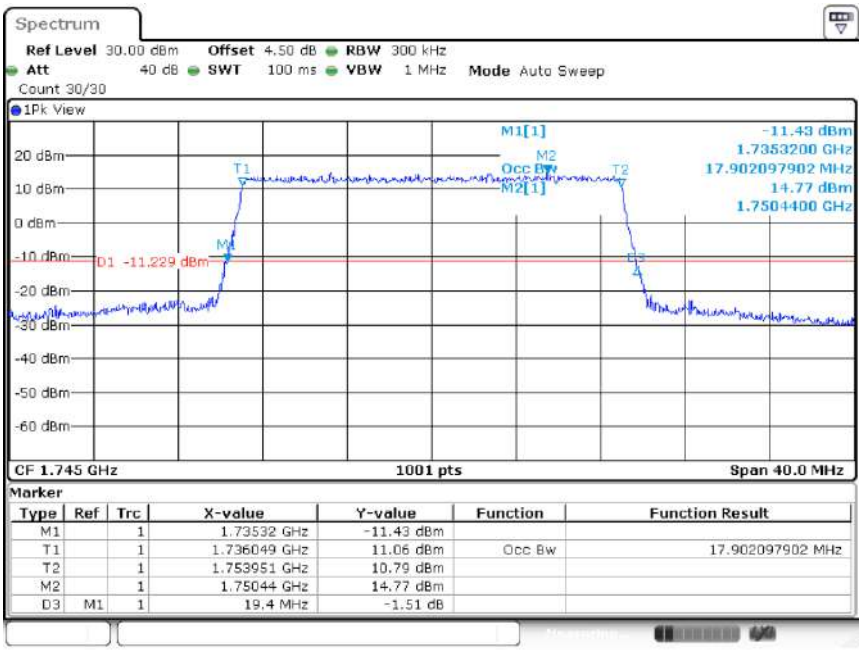
Band4-20MHz-16QAM-20300-100RB#0-17.902



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-23.44	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-28.10	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-24.54	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-28.03	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	-24.30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	-29.86	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	-25.13	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	-28.33	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-23.26	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-28.73	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-24.78	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-27.83	PASS
Band4	3MHz	QPSK	19965	1RB#0	-21.70	PASS
Band4	3MHz	QPSK	19965	15RB#0	-30.10	PASS
Band4	3MHz	QPSK	20385	1RB#14	-23.57	PASS
Band4	3MHz	QPSK	20385	15RB#0	-28.46	PASS
Band4	3MHz	64QAM	19965	1RB#0	-22.37	PASS
Band4	3MHz	64QAM	19965	15RB#0	-30.99	PASS
Band4	3MHz	64QAM	20385	1RB#14	-23.92	PASS
Band4	3MHz	64QAM	20385	15RB#0	-31.06	PASS
Band4	3MHz	16QAM	19965	1RB#0	-22.35	PASS
Band4	3MHz	16QAM	19965	15RB#0	-30.97	PASS
Band4	3MHz	16QAM	20385	1RB#14	-24.84	PASS
Band4	3MHz	16QAM	20385	15RB#0	-30.30	PASS
Band4	5MHz	QPSK	19975	1RB#0	-22.75	PASS
Band4	5MHz	QPSK	19975	25RB#0	-30.73	PASS
Band4	5MHz	QPSK	20375	1RB#24	-23.13	PASS
Band4	5MHz	QPSK	20375	25RB#0	-29.03	PASS
Band4	5MHz	64QAM	19975	1RB#0	-23.37	PASS
Band4	5MHz	64QAM	19975	25RB#0	-31.64	PASS
Band4	5MHz	64QAM	20375	1RB#24	-23.44	PASS
Band4	5MHz	64QAM	20375	25RB#0	-30.71	PASS

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Band4	5MHz	16QAM	19975	1RB#0	-23.56	PASS
Band4	5MHz	16QAM	19975	25RB#0	-30.86	PASS
Band4	5MHz	16QAM	20375	1RB#24	-23.18	PASS
Band4	5MHz	16QAM	20375	25RB#0	-29.88	PASS
Band4	10MHz	QPSK	20000	1RB#0	-31.78	PASS
Band4	10MHz	QPSK	20000	50RB#0	-34.78	PASS
Band4	10MHz	QPSK	20350	1RB#49	-31.80	PASS
Band4	10MHz	QPSK	20350	50RB#0	-32.91	PASS
Band4	10MHz	64QAM	20000	1RB#0	-32.75	PASS
Band4	10MHz	64QAM	20000	50RB#0	-35.29	PASS
Band4	10MHz	64QAM	20350	1RB#49	-32.65	PASS
Band4	10MHz	64QAM	20350	50RB#0	-33.11	PASS
Band4	10MHz	16QAM	20000	1RB#0	-32.83	PASS
Band4	10MHz	16QAM	20000	50RB#0	-35.42	PASS
Band4	10MHz	16QAM	20350	1RB#49	-32.80	PASS
Band4	10MHz	16QAM	20350	50RB#0	-33.32	PASS
Band4	15MHz	QPSK	20025	1RB#0	-27.20	PASS
Band4	15MHz	QPSK	20025	75RB#0	-34.24	PASS
Band4	15MHz	QPSK	20325	1RB#74	-26.52	PASS
Band4	15MHz	QPSK	20325	75RB#0	-33.64	PASS
Band4	15MHz	64QAM	20025	1RB#0	-27.96	PASS
Band4	15MHz	64QAM	20025	75RB#0	-35.75	PASS
Band4	15MHz	64QAM	20325	1RB#74	-25.66	PASS
Band4	15MHz	64QAM	20325	75RB#0	-33.86	PASS
Band4	15MHz	16QAM	20025	1RB#0	-27.97	PASS
Band4	15MHz	16QAM	20025	75RB#0	-35.67	PASS
Band4	15MHz	16QAM	20325	1RB#74	-25.85	PASS
Band4	15MHz	16QAM	20325	75RB#0	-33.93	PASS
Band4	20MHz	QPSK	20050	1RB#0	-28.61	PASS
Band4	20MHz	QPSK	20050	100RB#0	-33.96	PASS
Band4	20MHz	QPSK	20300	1RB#99	-28.25	PASS
Band4	20MHz	QPSK	20300	100RB#0	-34.20	PASS
Band4	20MHz	64QAM	20050	1RB#0	-29.23	PASS
Band4	20MHz	64QAM	20050	100RB#0	-35.94	PASS
Band4	20MHz	64QAM	20300	1RB#99	-28.26	PASS
Band4	20MHz	64QAM	20300	100RB#0	-34.98	PASS
Band4	20MHz	16QAM	20050	1RB#0	-28.88	PASS
Band4	20MHz	16QAM	20050	100RB#0	-35.91	PASS

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Band4	20MHz	16QAM	20300	1RB#99	-28.43	PASS
Band4	20MHz	16QAM	20300	100RB#0	-34.98	PASS

5.2. Test Plots

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

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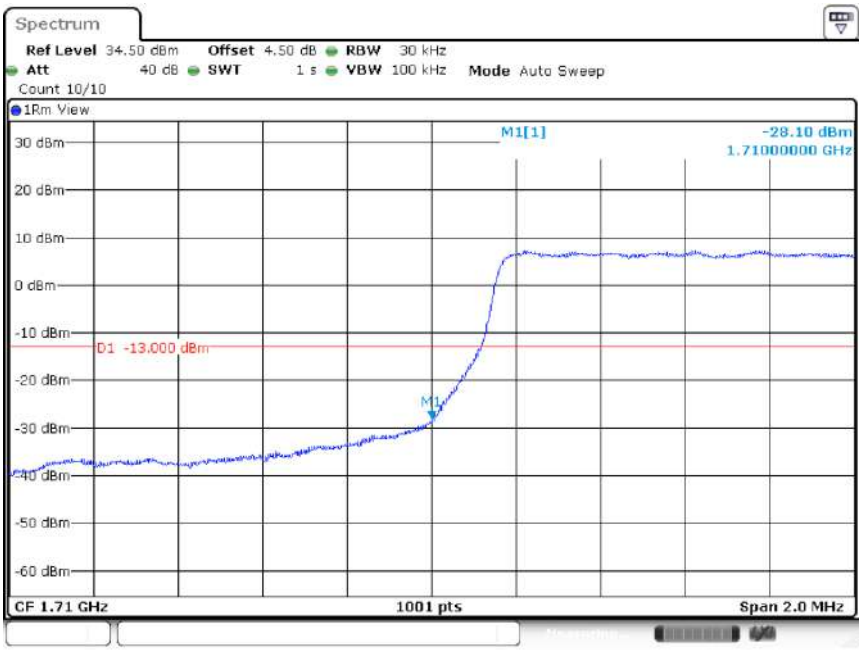
Band4-1.4MHz-QPSK-19957-6RB#0



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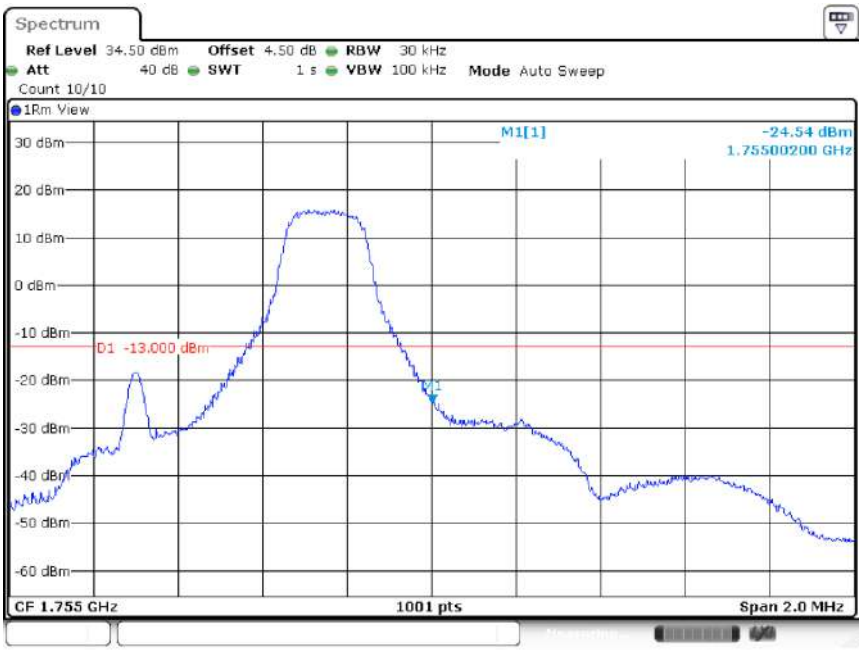

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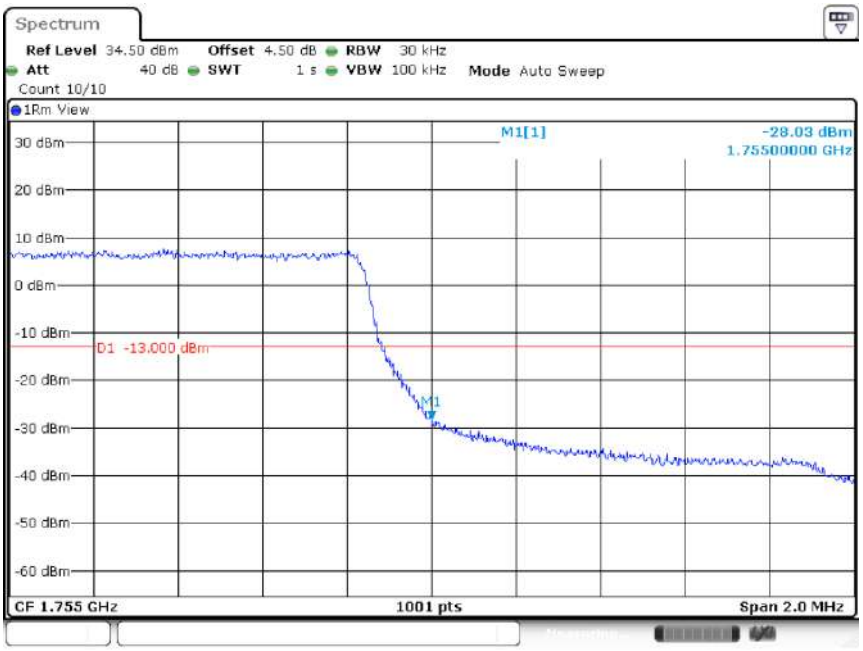

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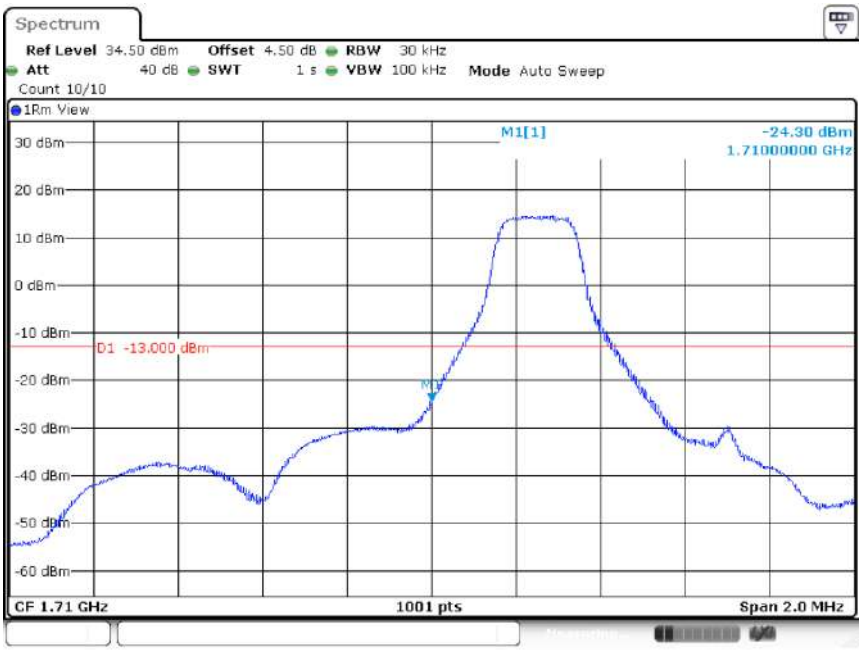
Band4-1.4MHz-64QAM-19957-1RB#0



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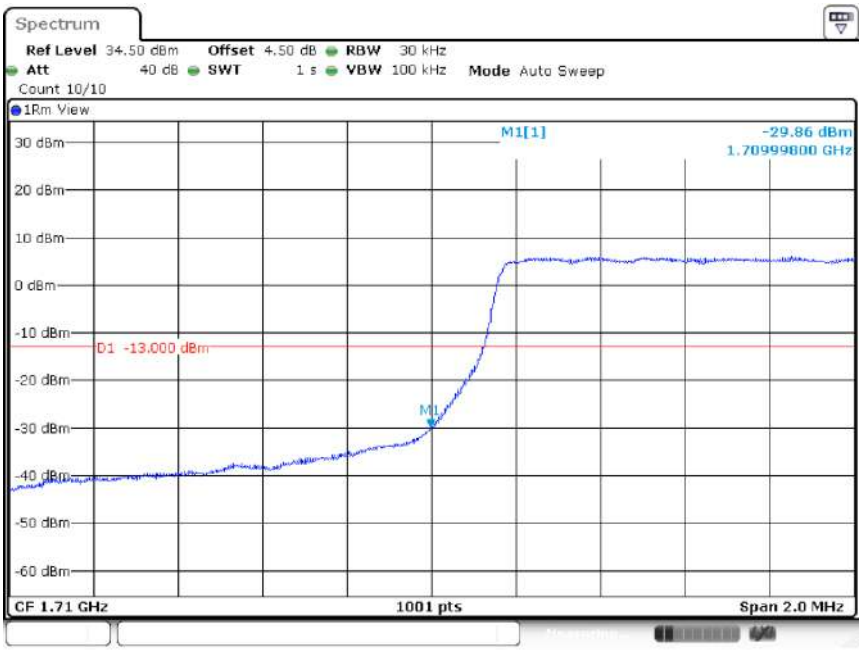

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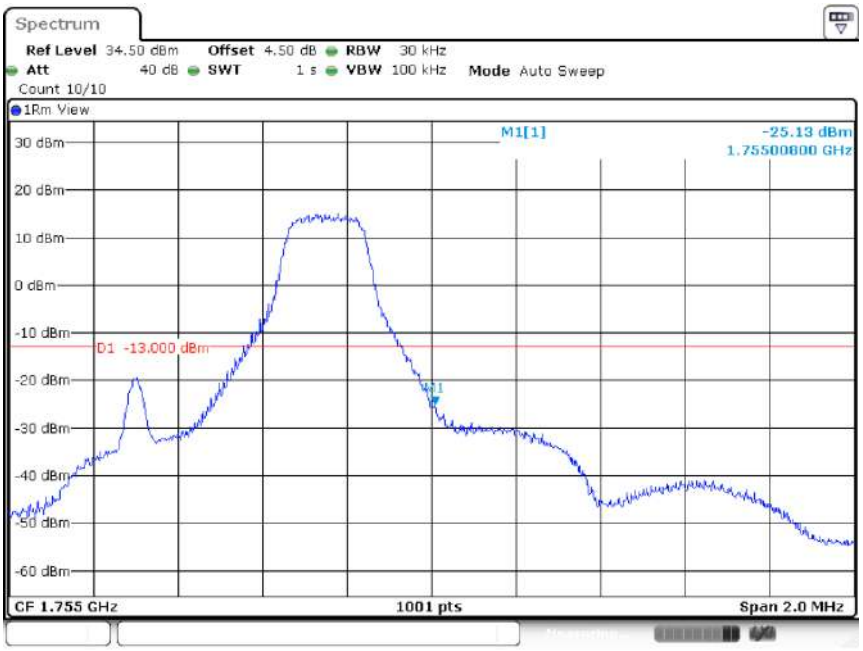

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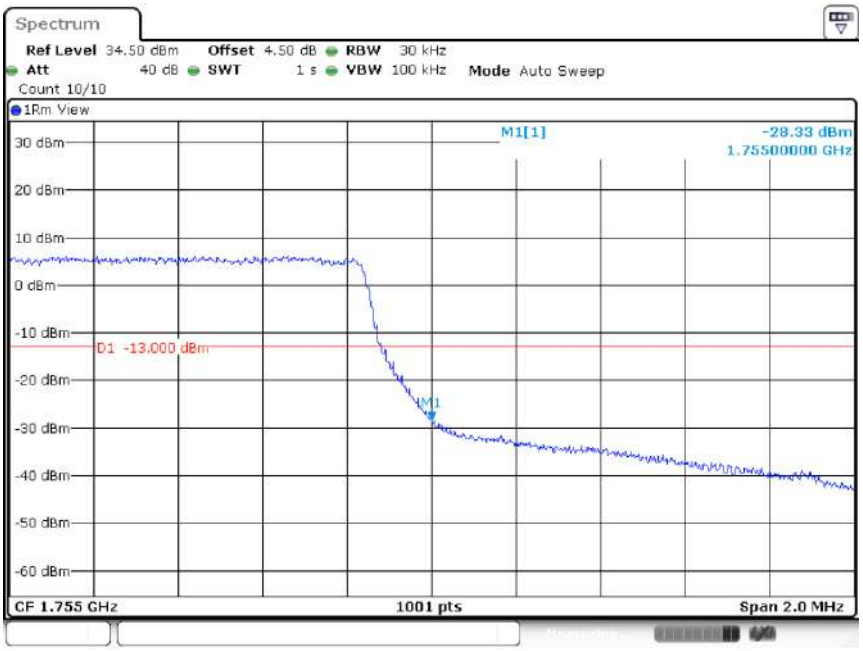

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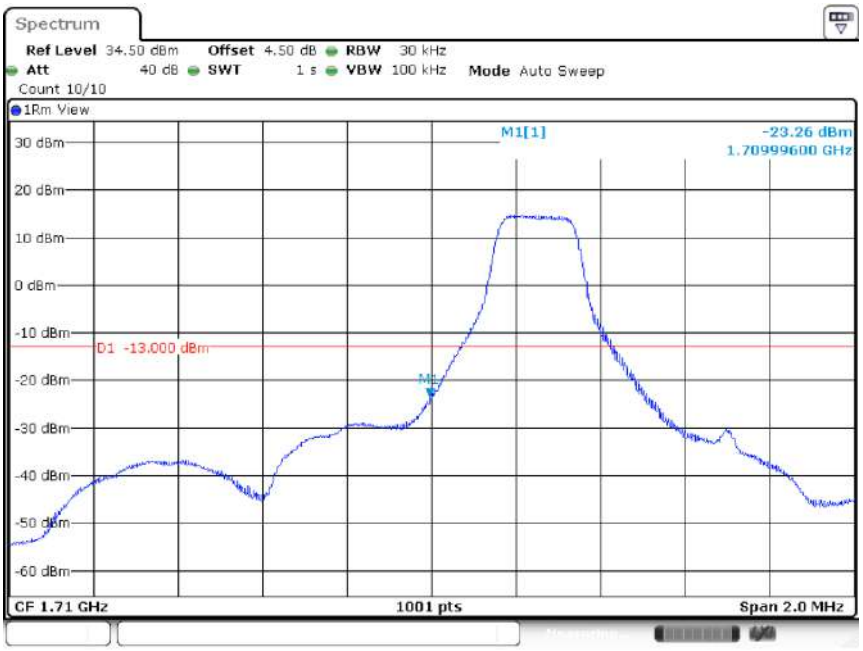

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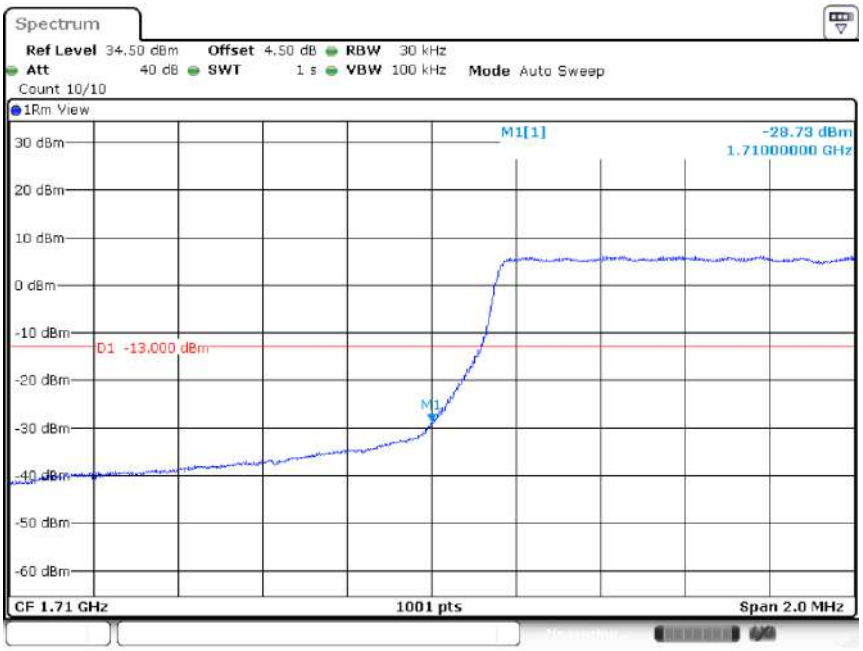

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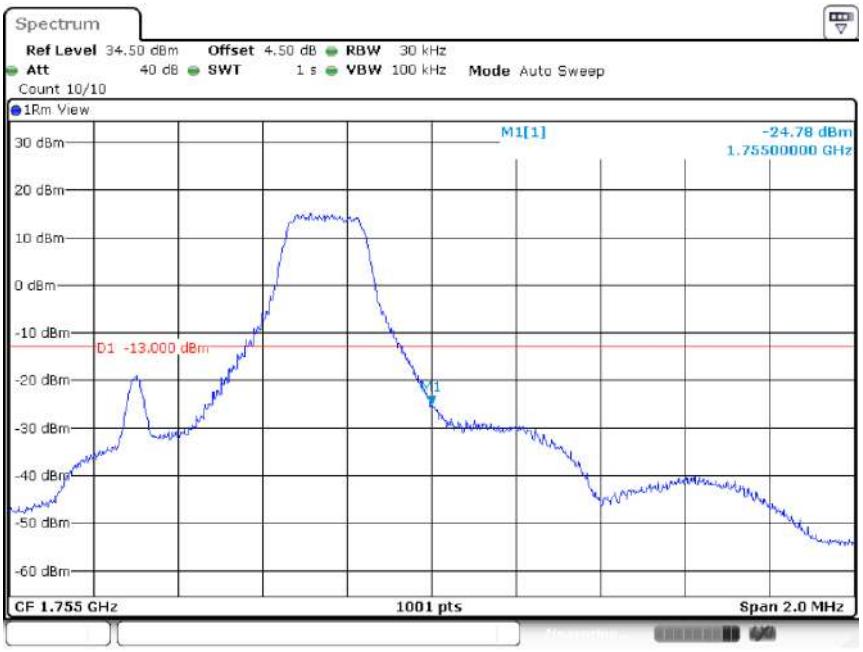
Band4-1.4MHz-16QAM-20393-1RB#5



Date: 3.SEP.2020 22:13:40

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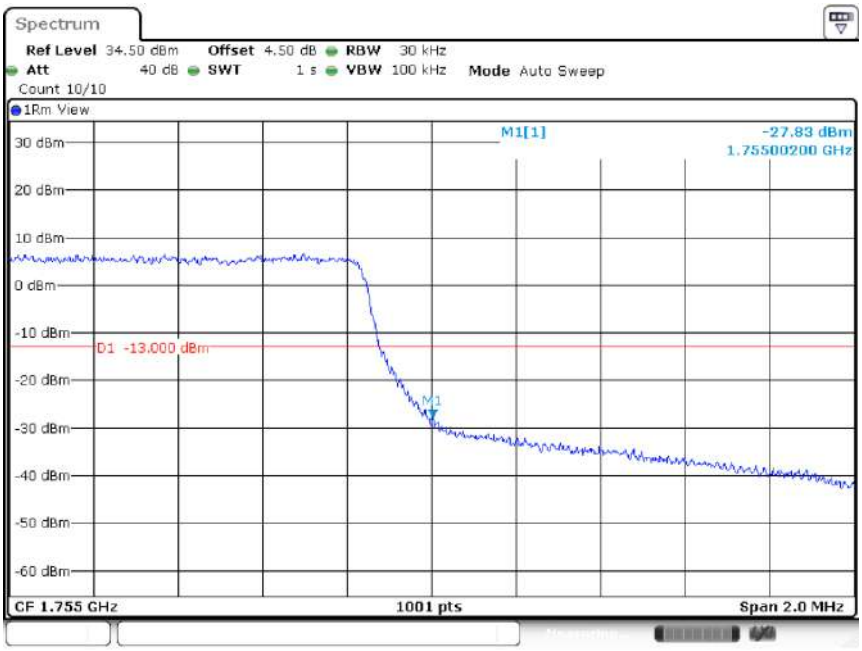
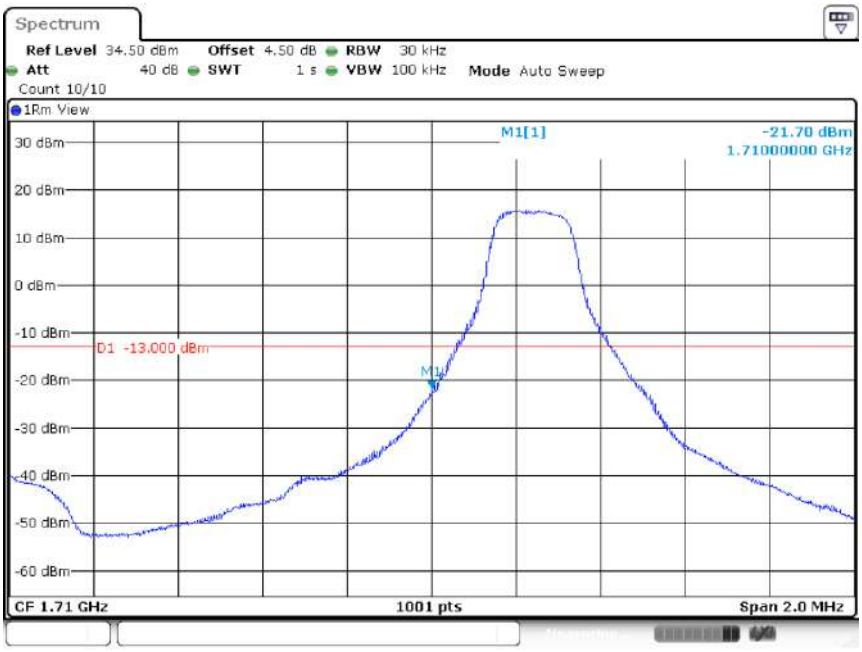
Band4-1.4MHz-16QAM-20393-6RB#0



Date: 3.SEP.2020 22:14:21

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



Date: 3.SEP.2020 22:14:47

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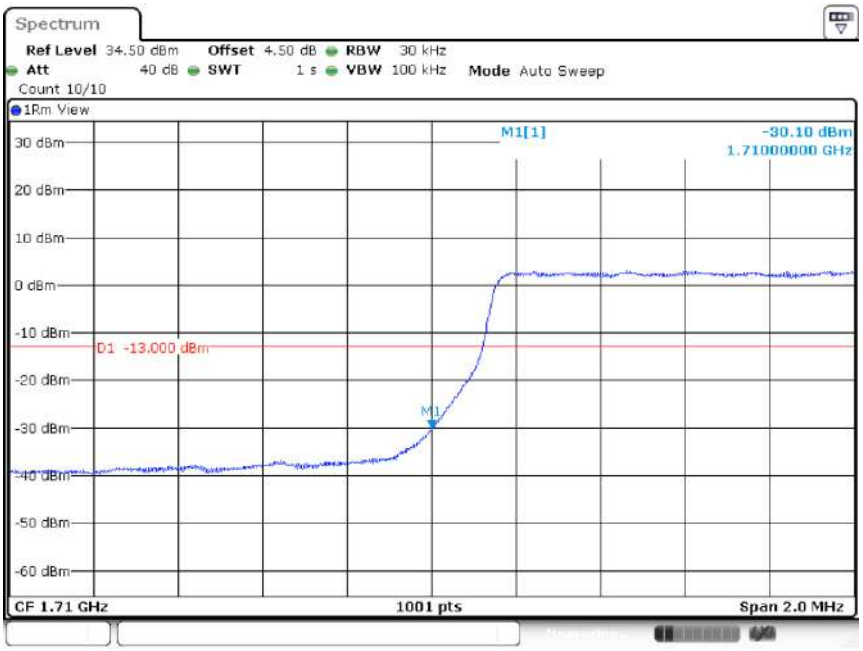
Band4-3MHz-QPSK-19965-15RB#0



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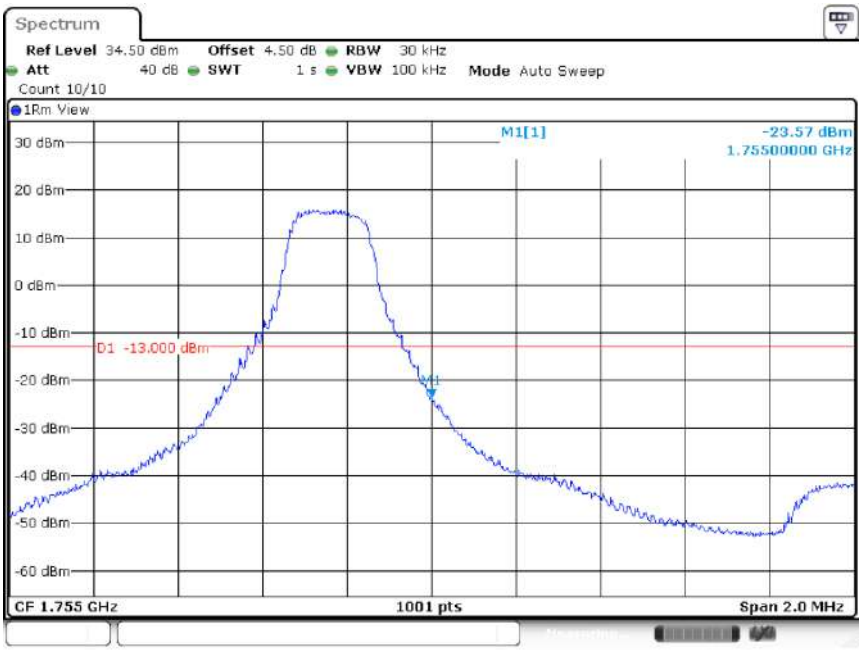
Band4-3MHz-QPSK-20385-1RB#14



Date: 3.SEP.2020 22:16:14

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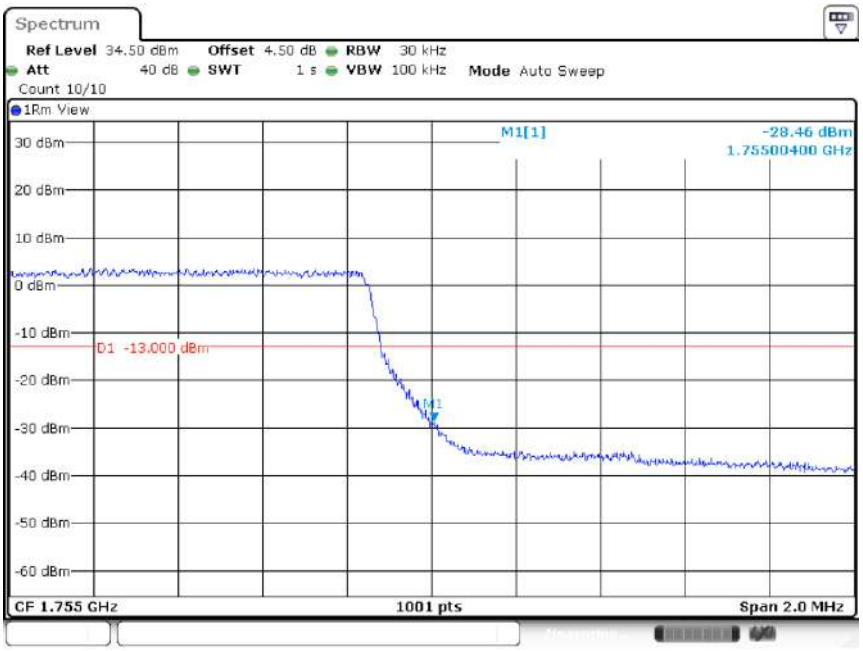
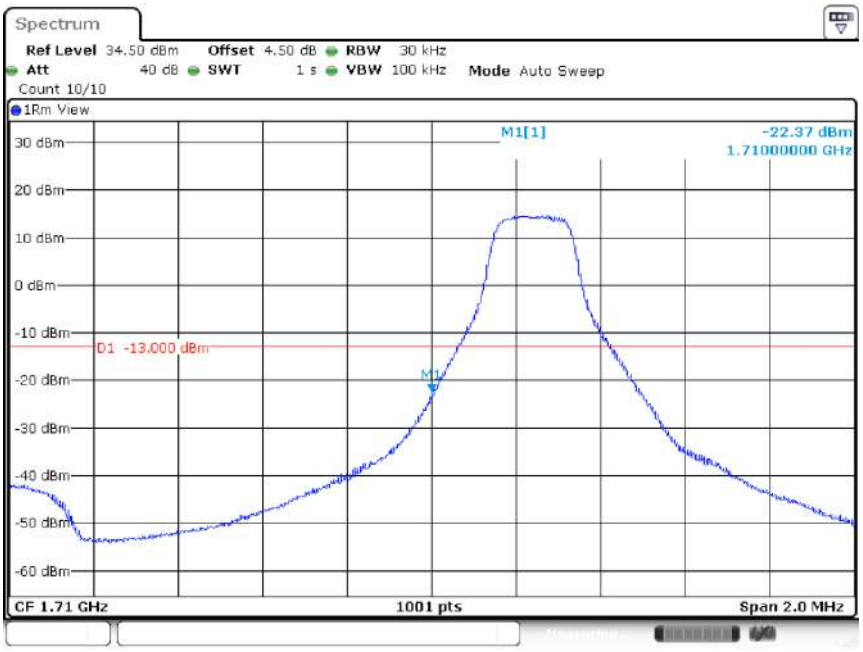
Band4-3MHz-QPSK-20385-15RB#0



Date: 3.SEP.2020 22:16:55

Band4-3MHz-64QAM-19965-1RB#0



Date: 3.SEP.2020 23:59:28

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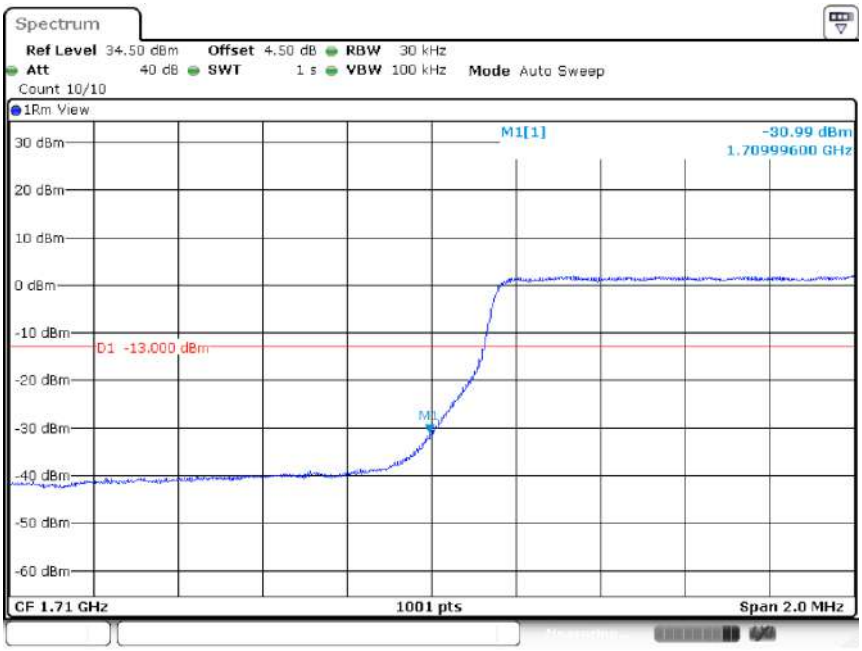

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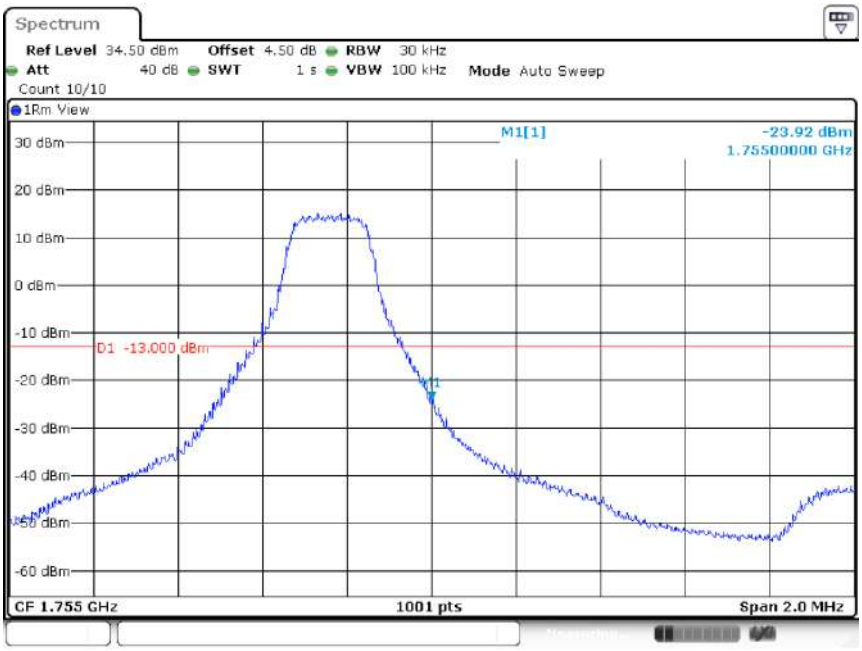
Band4-3MHz-64QAM-20385-1RB#14



Date: 4.SEP.2020 00:00:14

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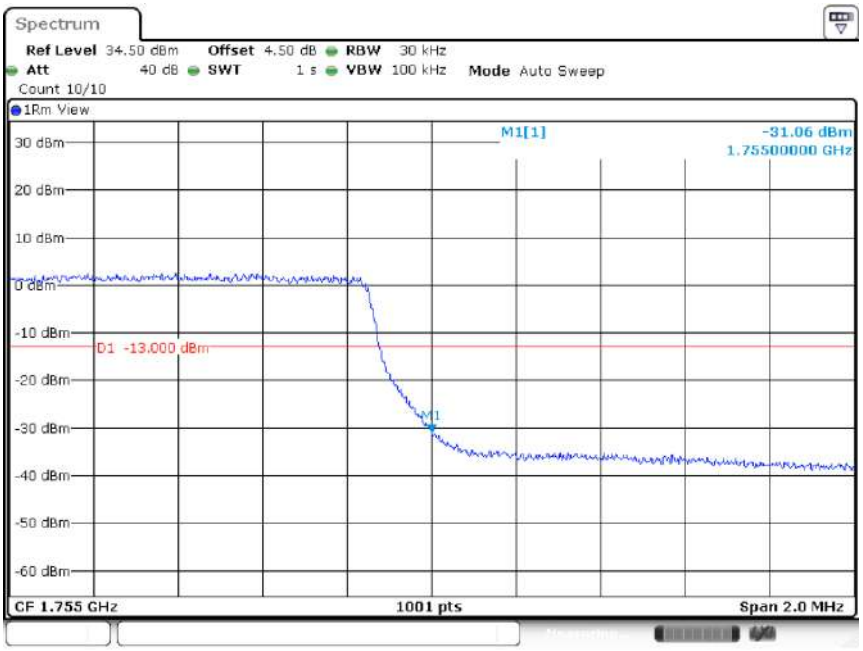
Band4-3MHz-64QAM-20385-15RB#0



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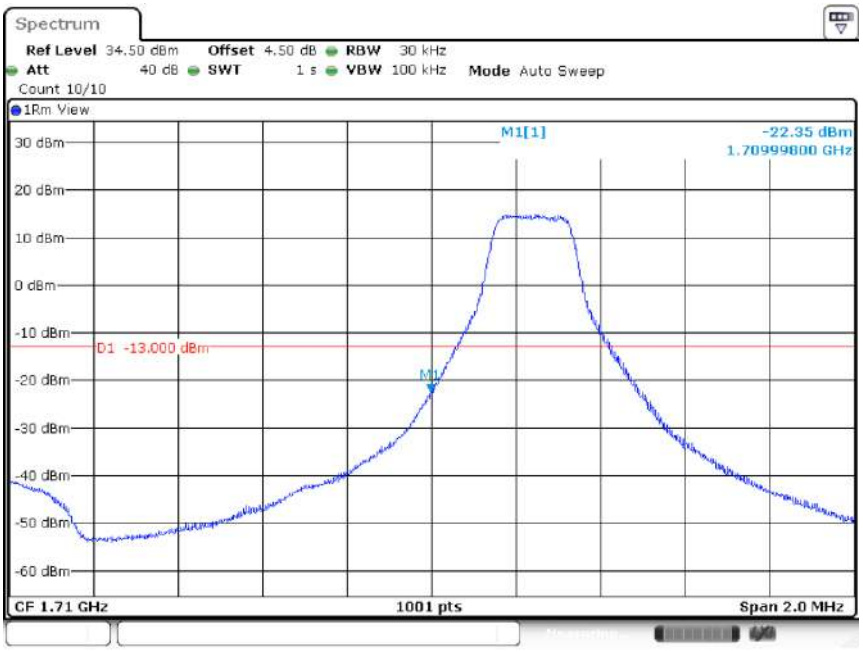
Band4-3MHz-16QAM-19965-1RB#0



Date: 3 SEP.2020 22:15:08

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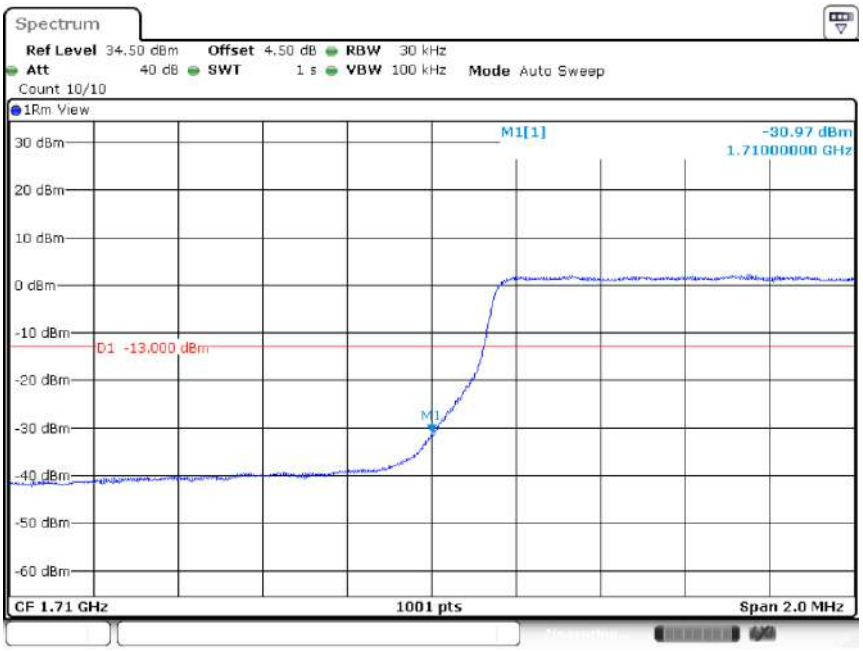

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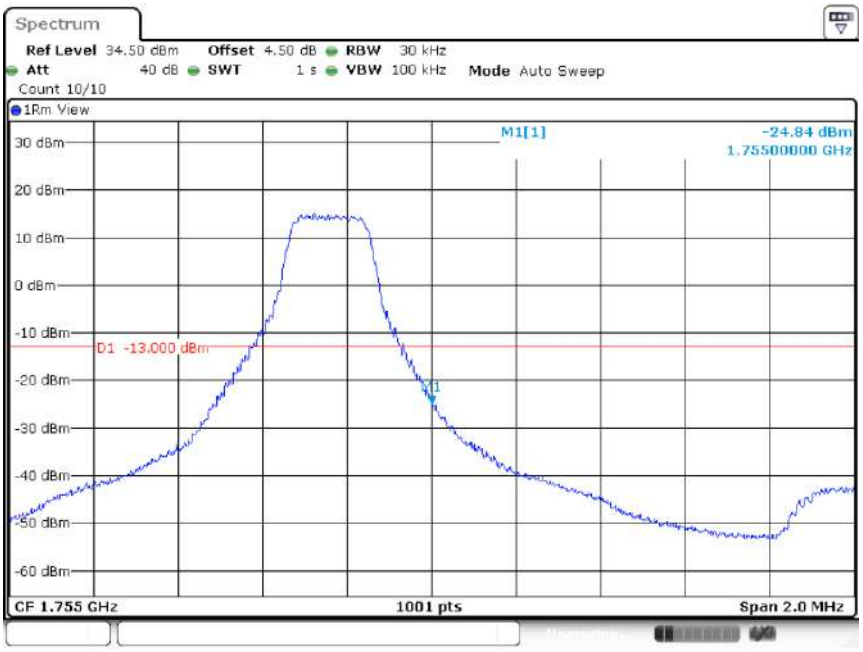
Band4-3MHz-16QAM-20385-1RB#14



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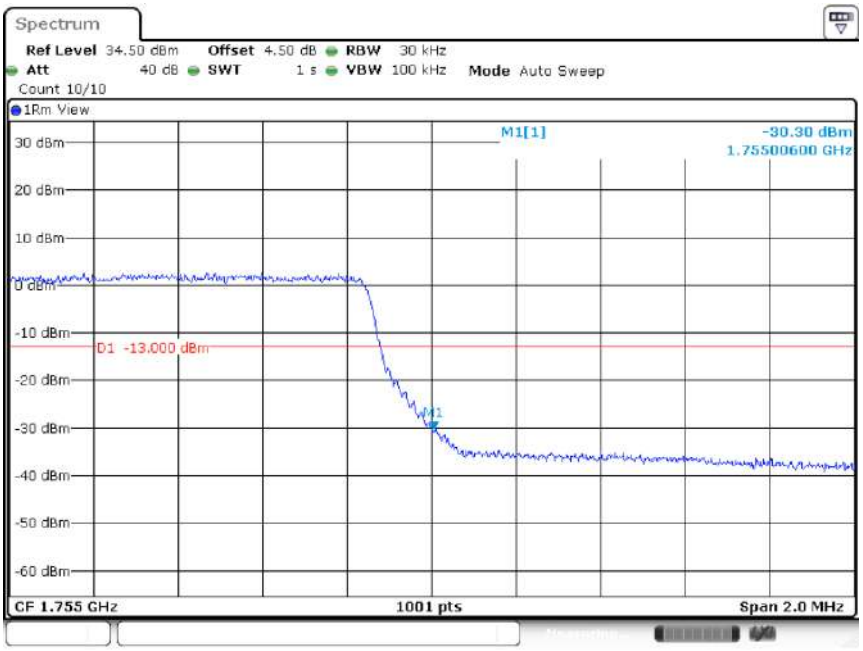

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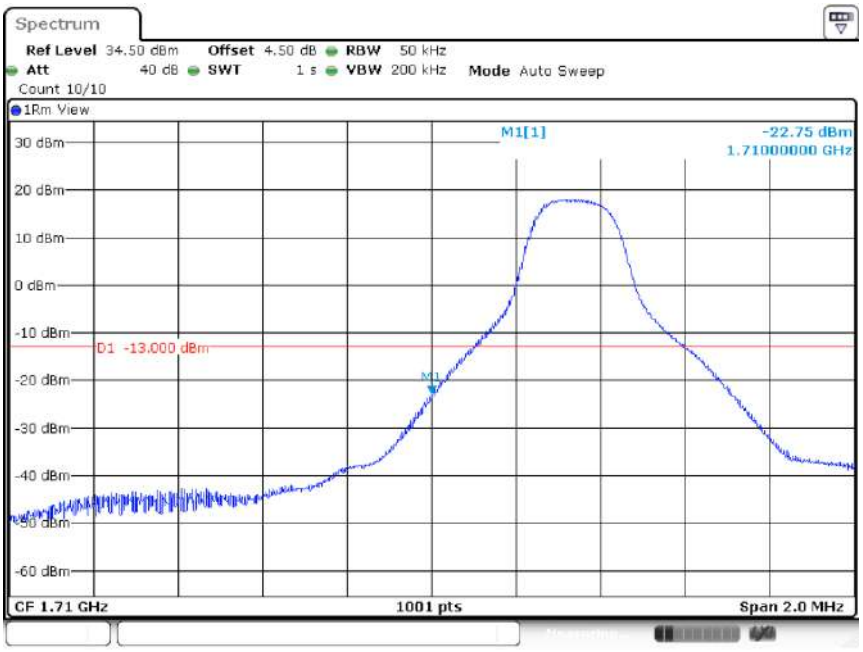
Band4-5MHz-QPSK-19975-1RB#0



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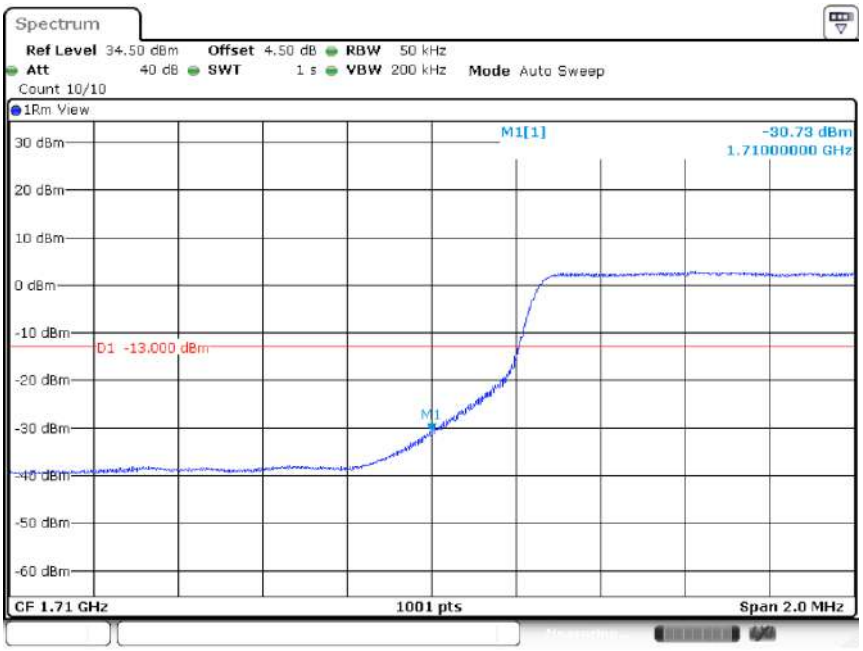
Band4-5MHz-QPSK-19975-25RB#0



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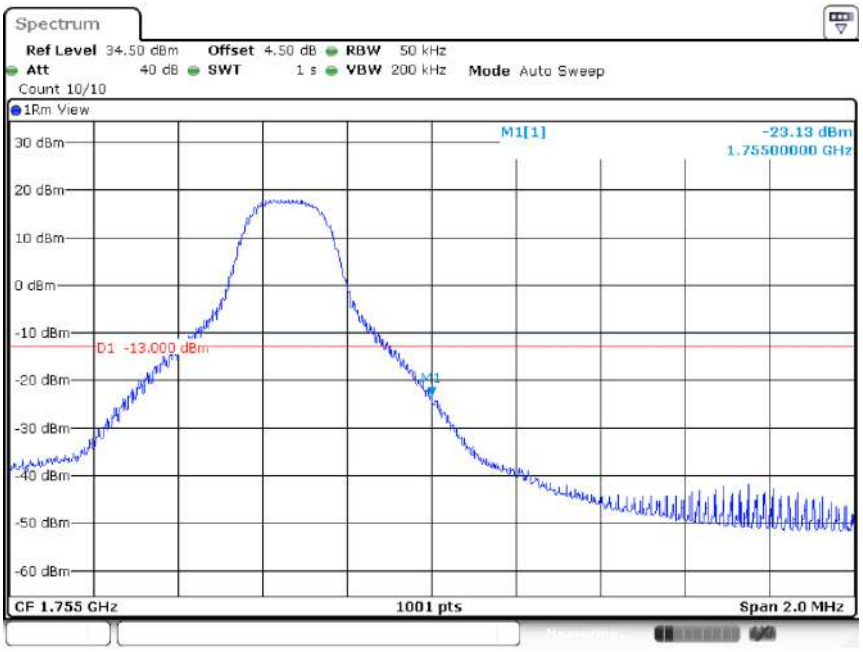
Band4-5MHz-QPSK-20375-1RB#24



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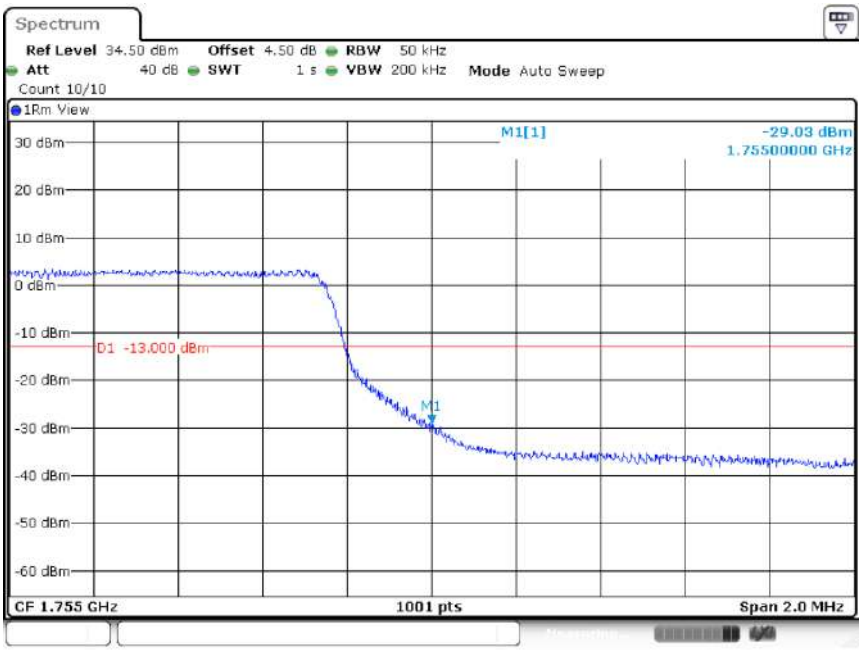
Band4-5MHz-QPSK-20375-25RB#0



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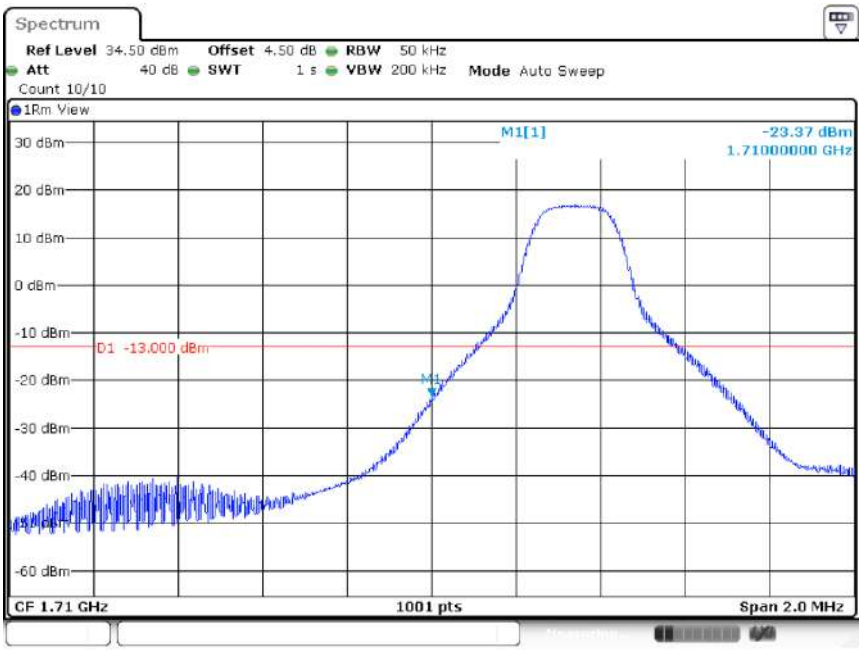
Band4-5MHz-64QAM-19975-1RB#0



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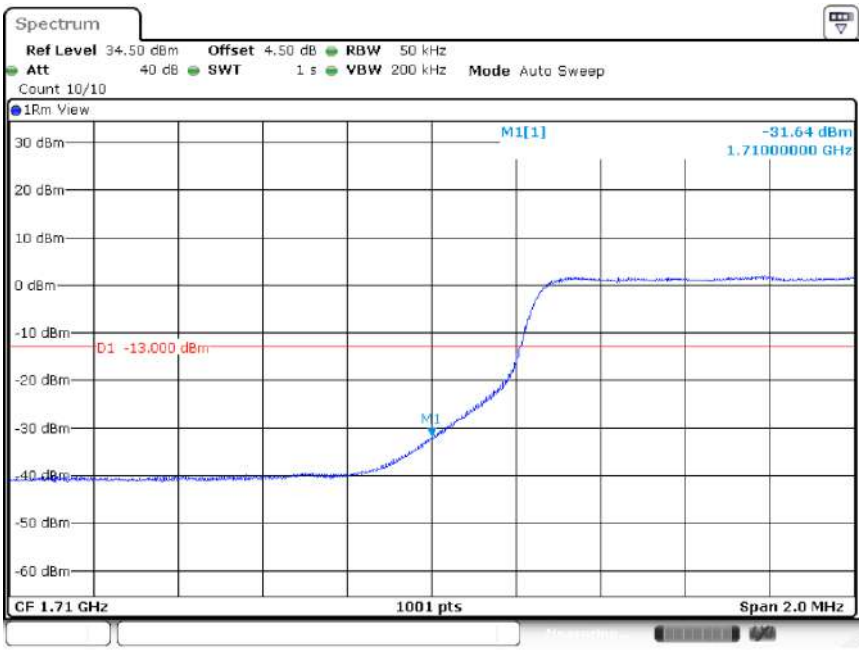

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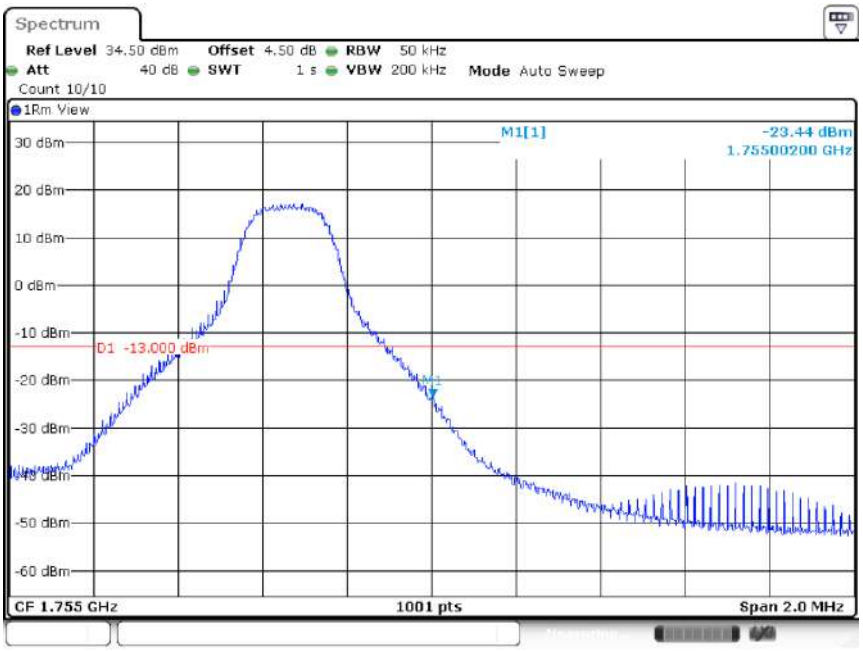
Band4-5MHz-64QAM-20375-1RB#24



Date: 4.SEP.2020 00:01:46

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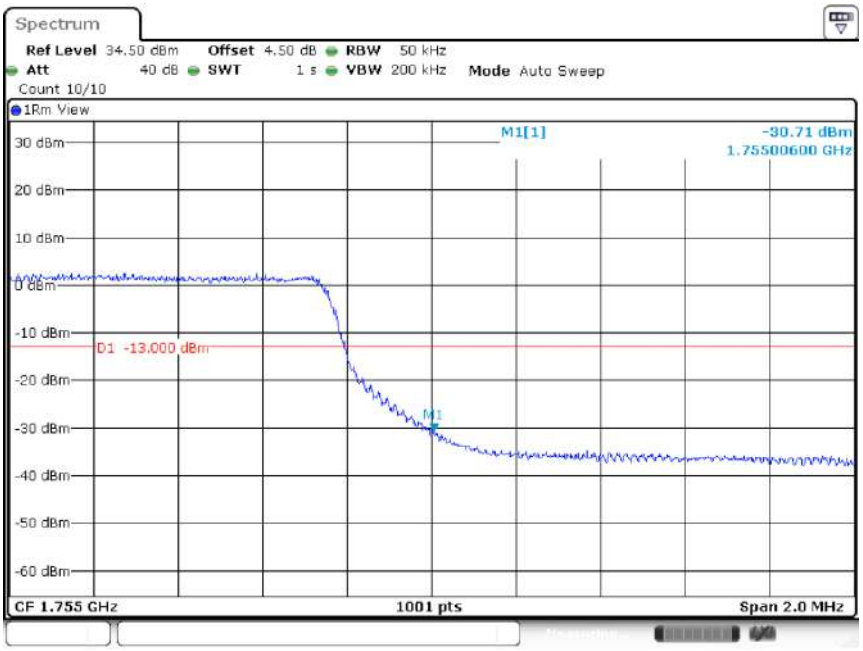
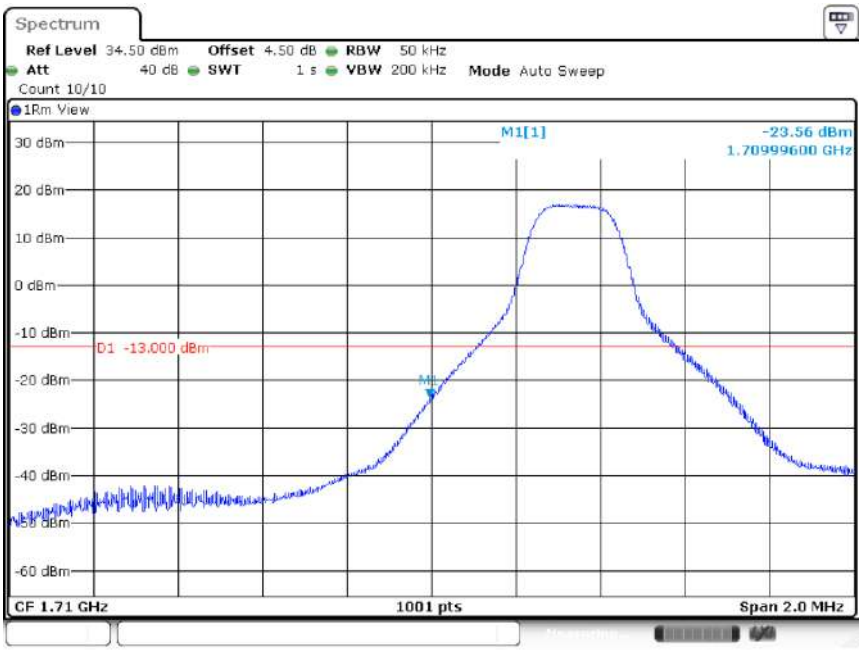
Band4-5MHz-64QAM-20375-25RB#0



Date: 4 SEP.2020 00:02:07

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



Date: 3 SEP.2020 22:18:02

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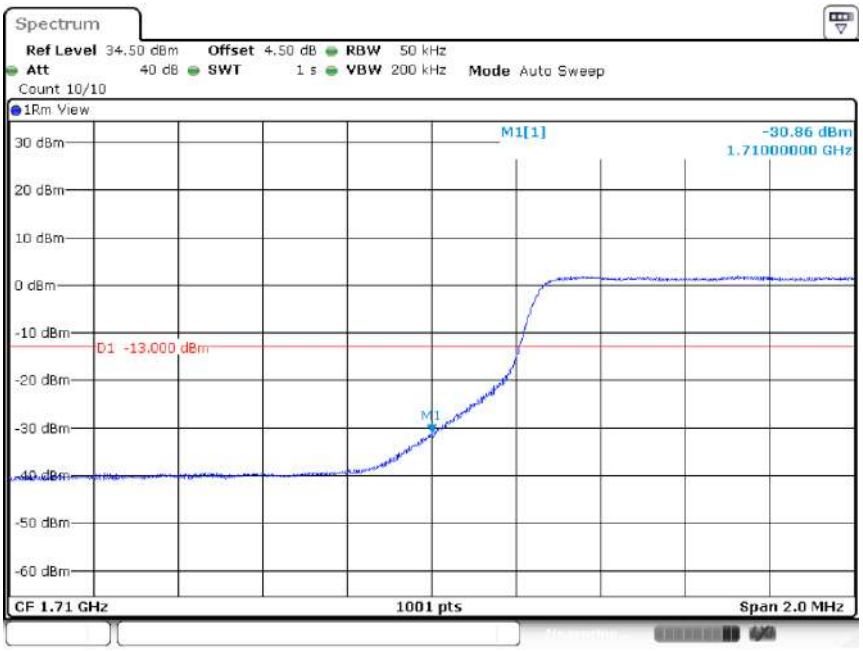
Band4-5MHz-16QAM-19975-25RB#0



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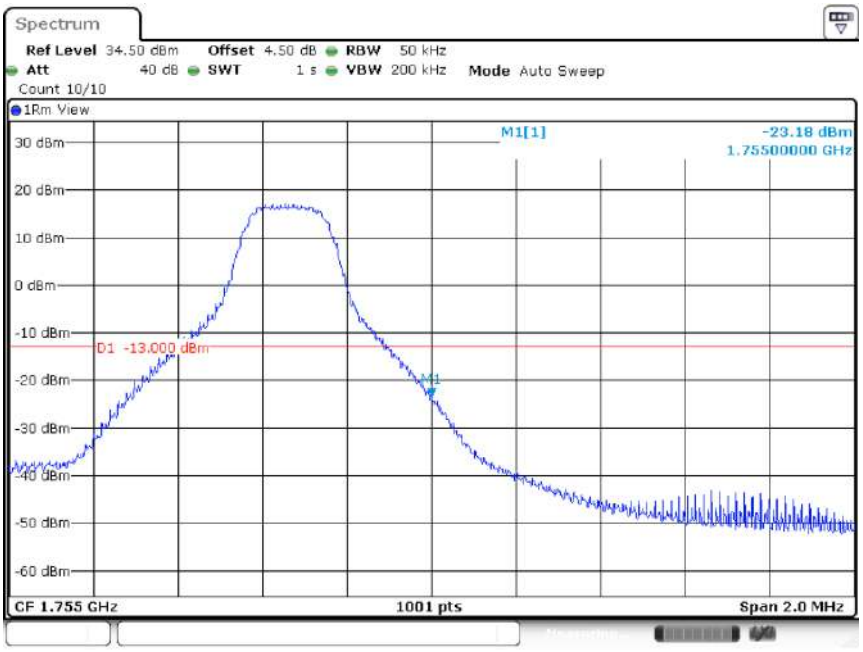
Band4-5MHz-16QAM-20375-1RB#24



Date: 3.SEP.2020 22:19:29

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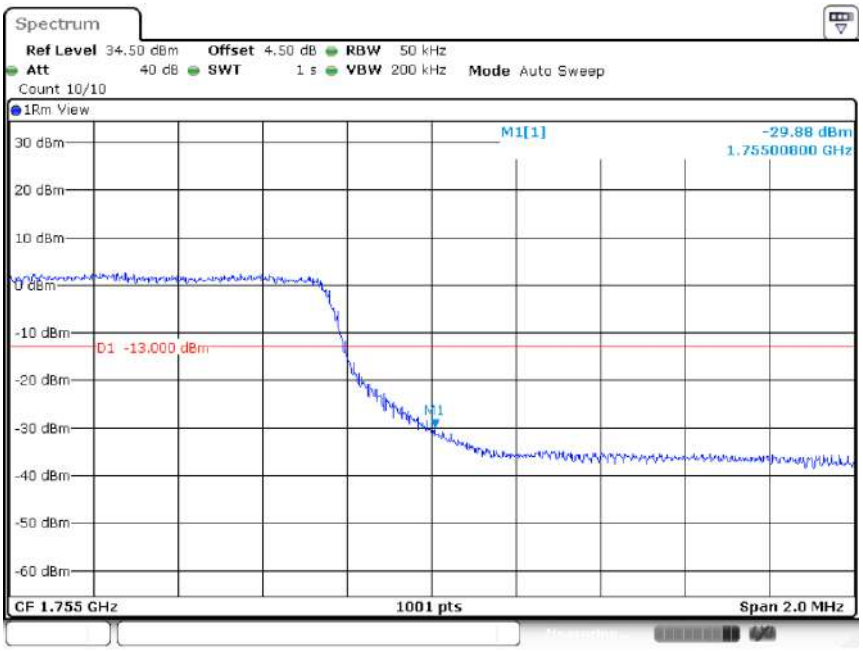
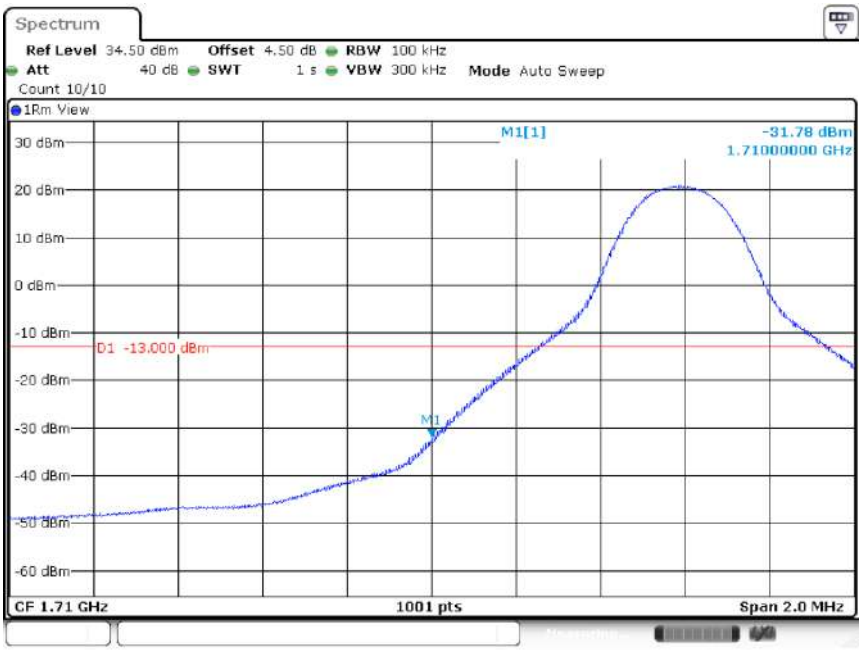


Date: 3.SEP.2020 22:20:10

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



Date: 3.SEP.2020 22:20:36

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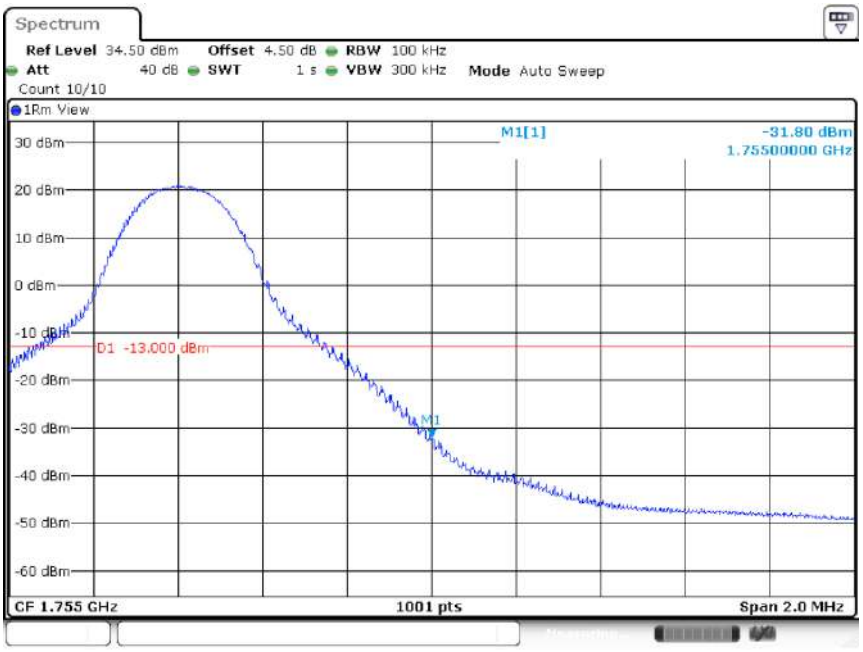
Band4-10MHz-QPSK-20000-50RB#0

Date: 3.SEP.2020 22:21:18

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



Date: 3.SEP.2020 22:22:03

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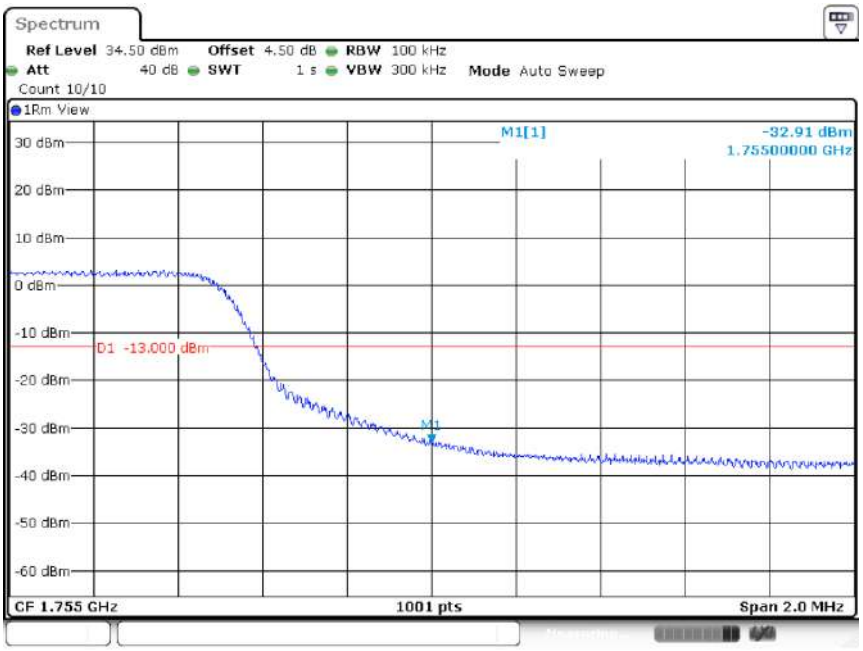
Band4-10MHz-QPSK-20350-50RB#0



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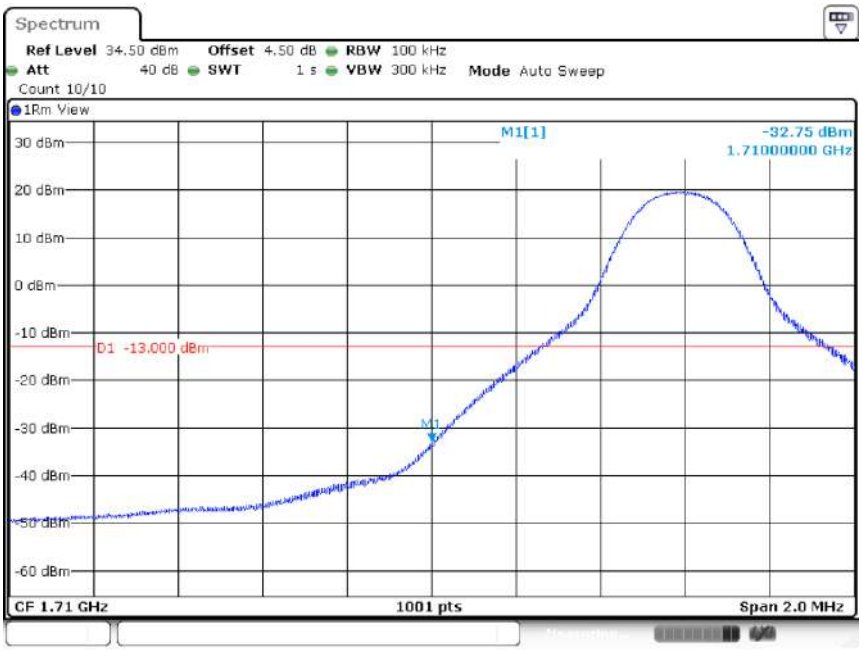
Band4-10MHz-64QAM-20000-1RB#0



Date: 4.SEP.2020 00:02:33

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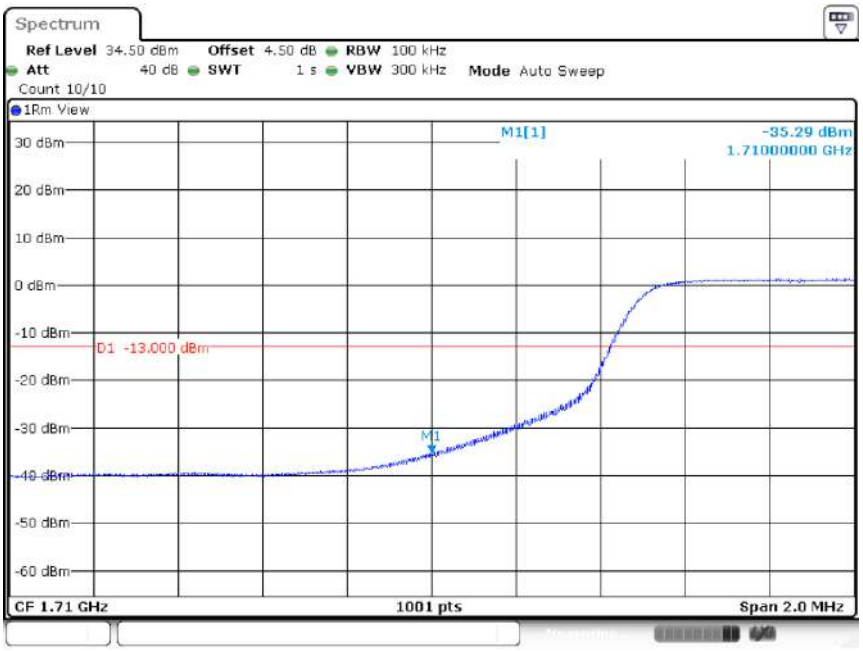
Band4-10MHz-64QAM-20000-50RB#0



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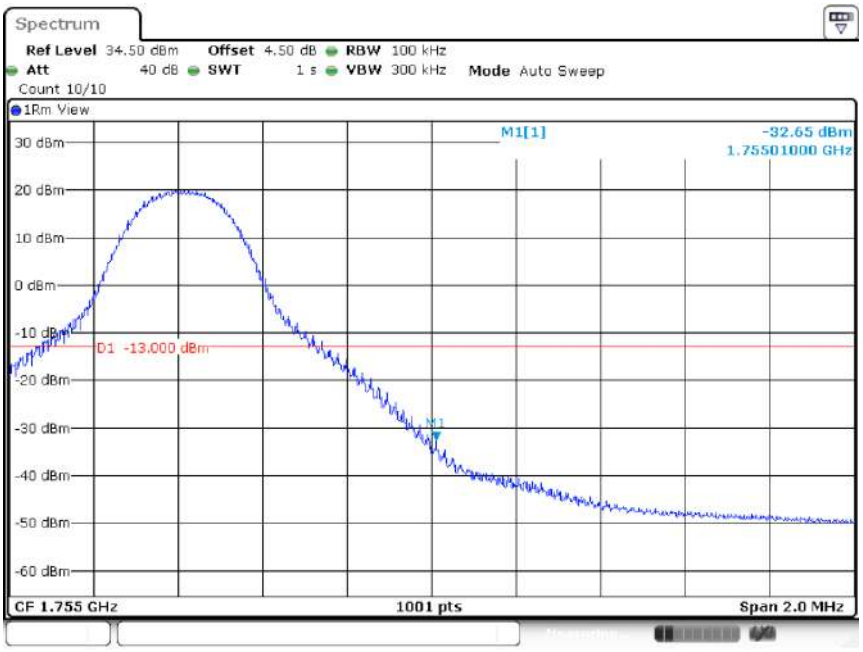
Band4-10MHz-64QAM-20350-1RB#49



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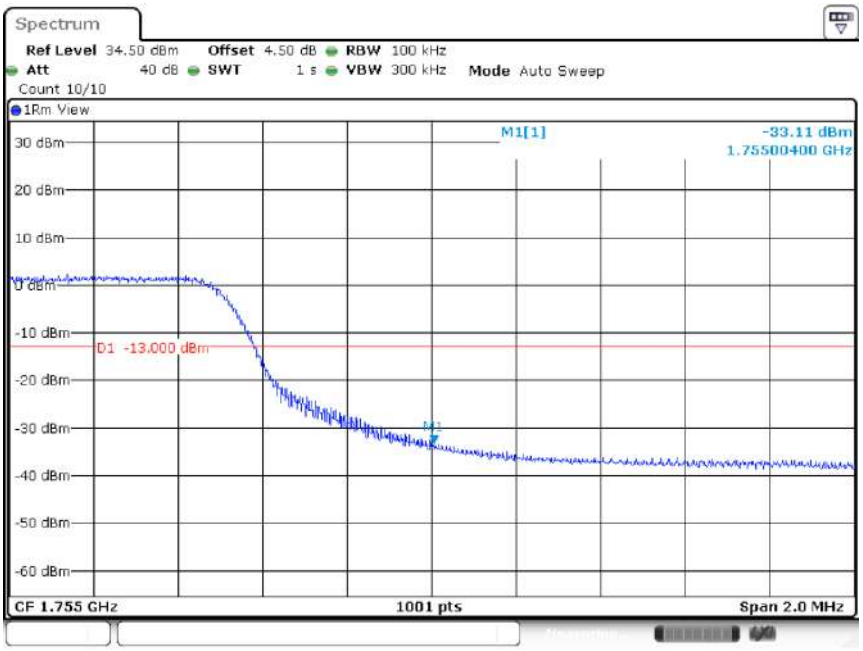

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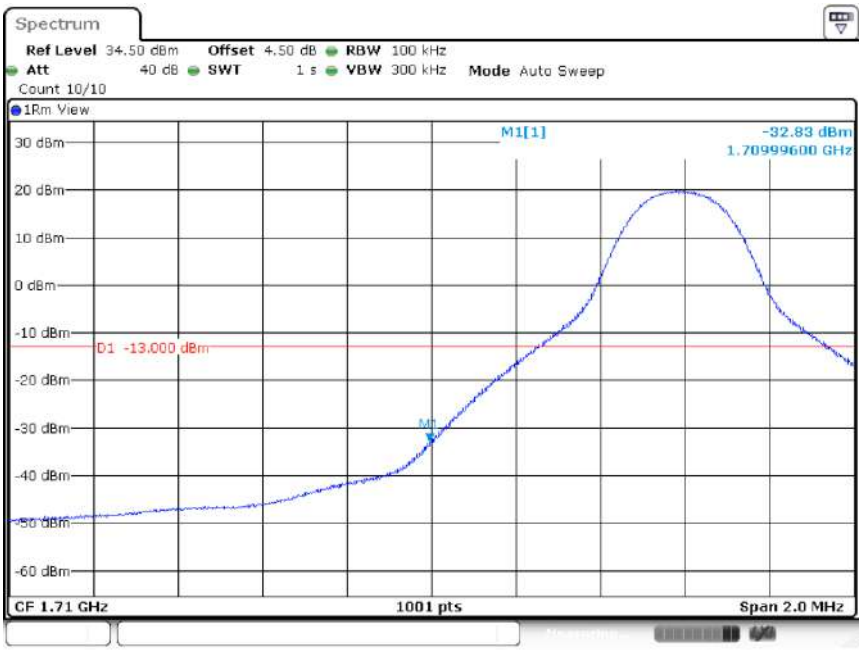

Date: 3 SEP.2020 22:20:57

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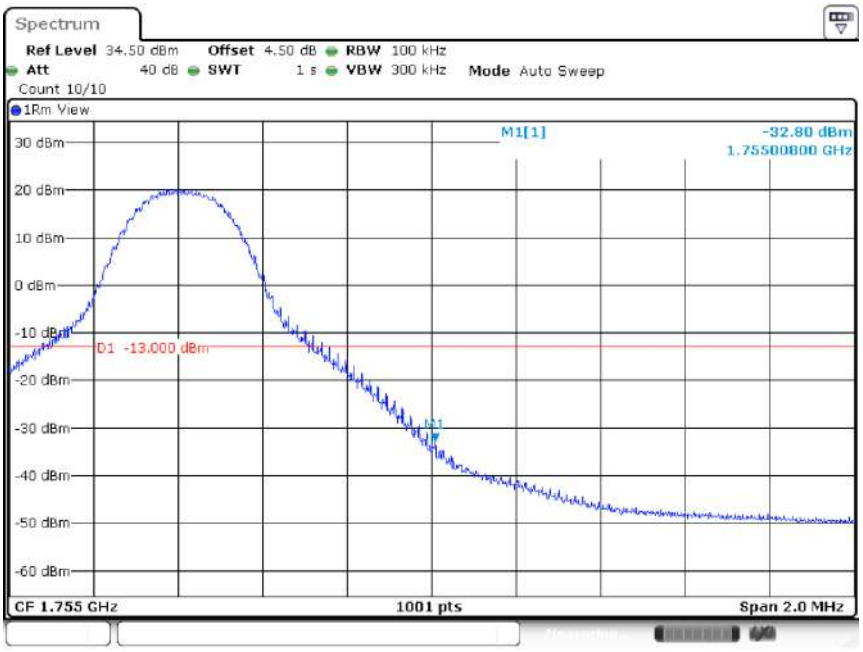
Band4-10MHz-16QAM-20000-50RB#0

Date: 3.SEP.2020 22:21:38

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



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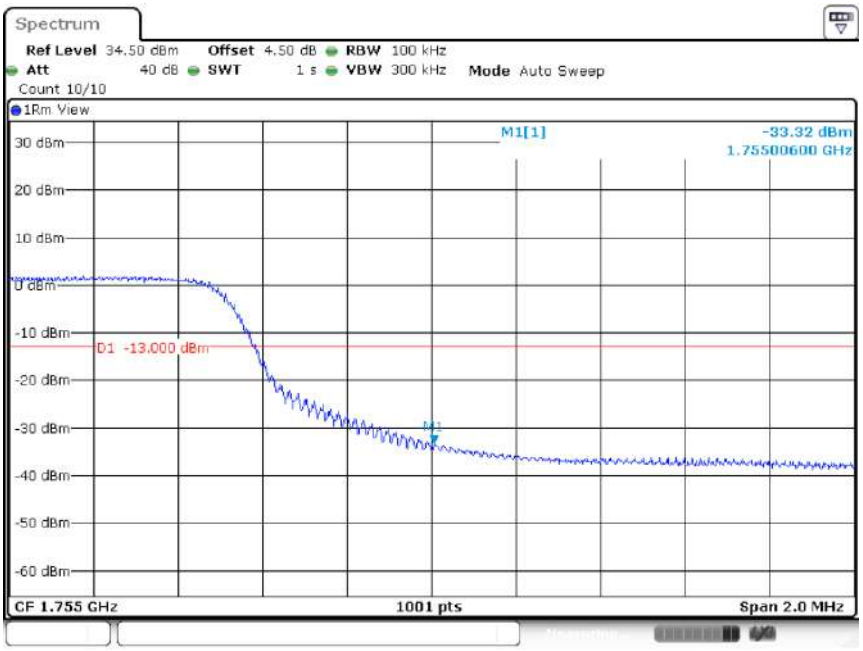

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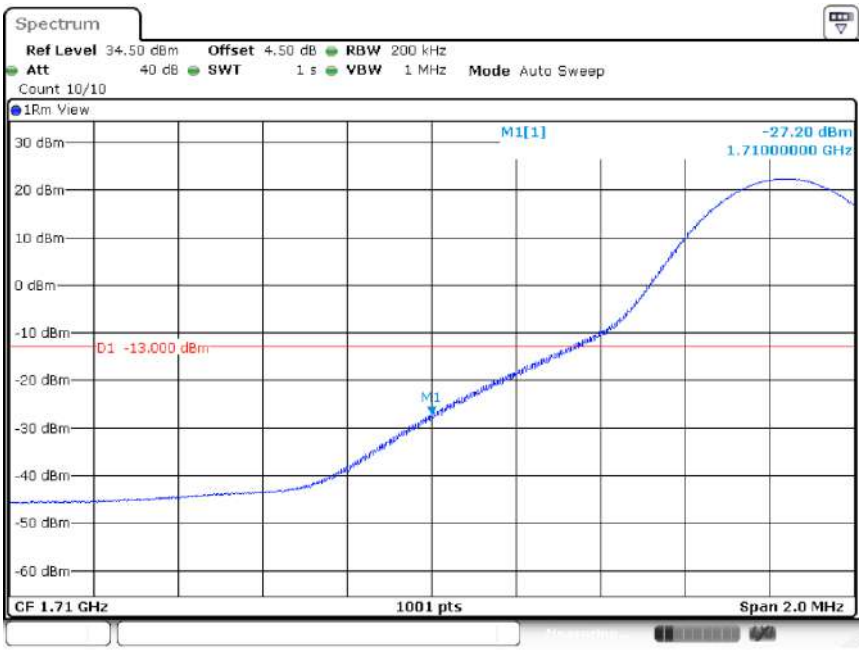
Band4-15MHz-QPSK-20025-1RB#0



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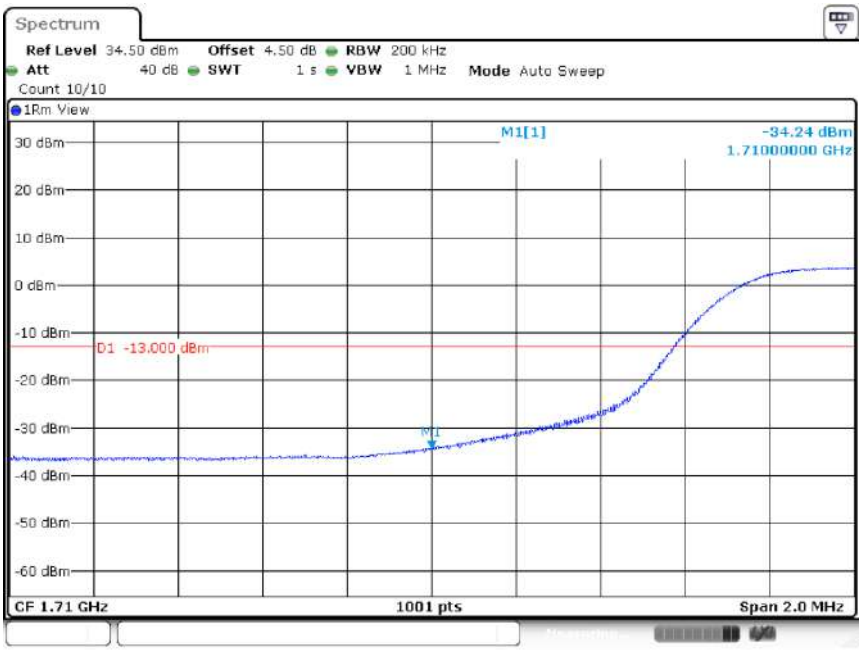
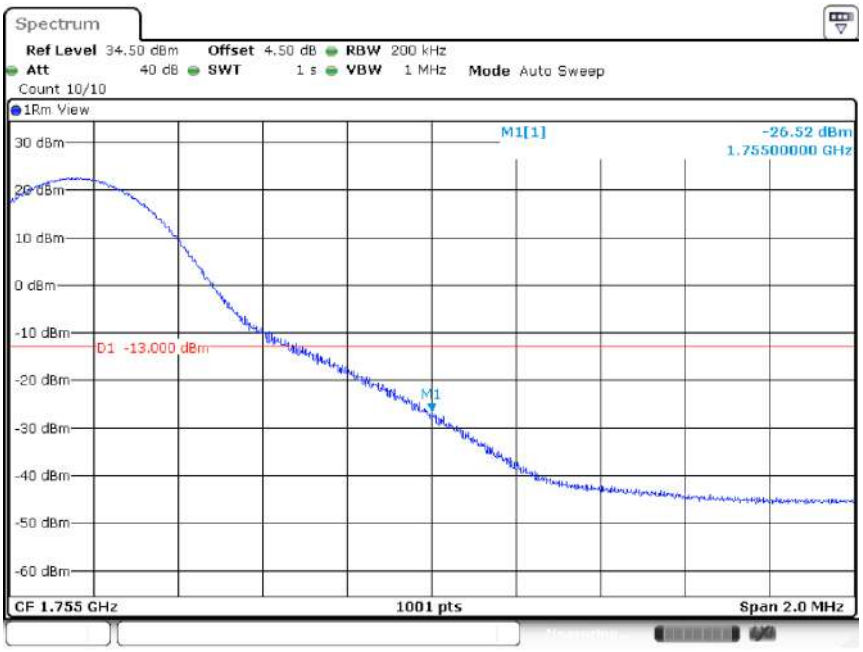
Band4-15MHz-QPSK-20025-75RB#0



Date: 3.SEP.2020 22:24:12

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



Date: 3.SEP.2020 22:24:58

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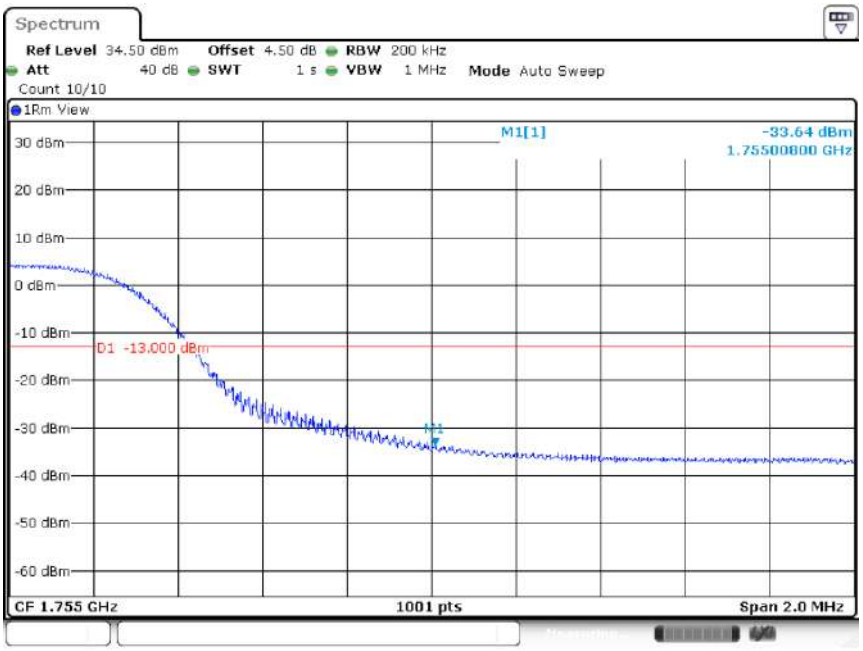
Band4-15MHz-QPSK-20325-75RB#0



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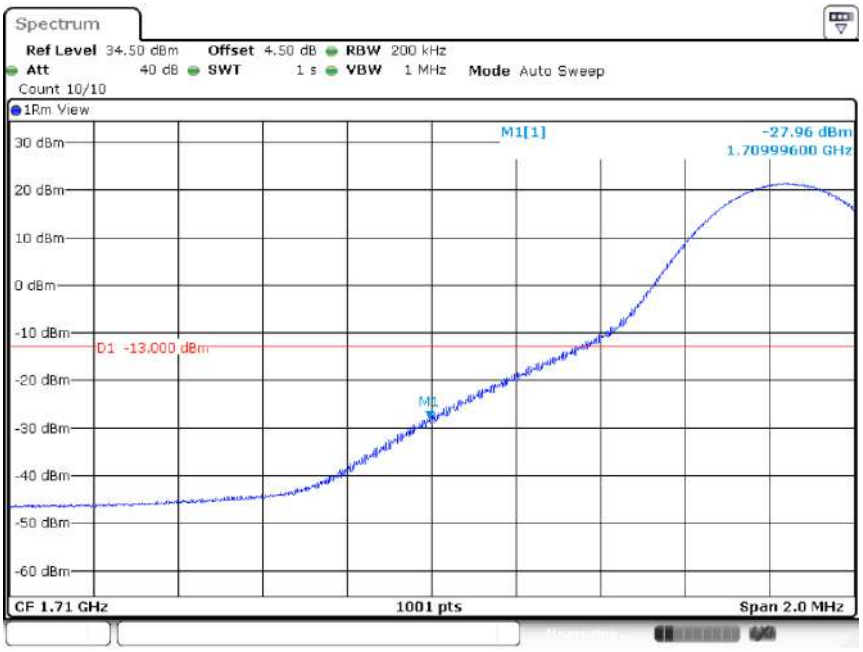
Band4-15MHz-64QAM-20025-1RB#0



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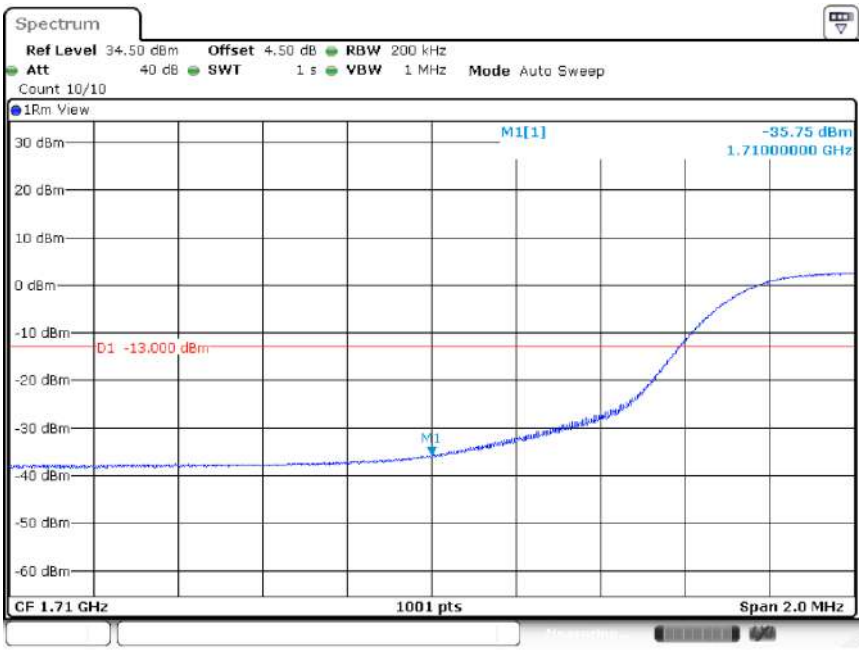
Band4-15MHz-64QAM-20025-75RB#0



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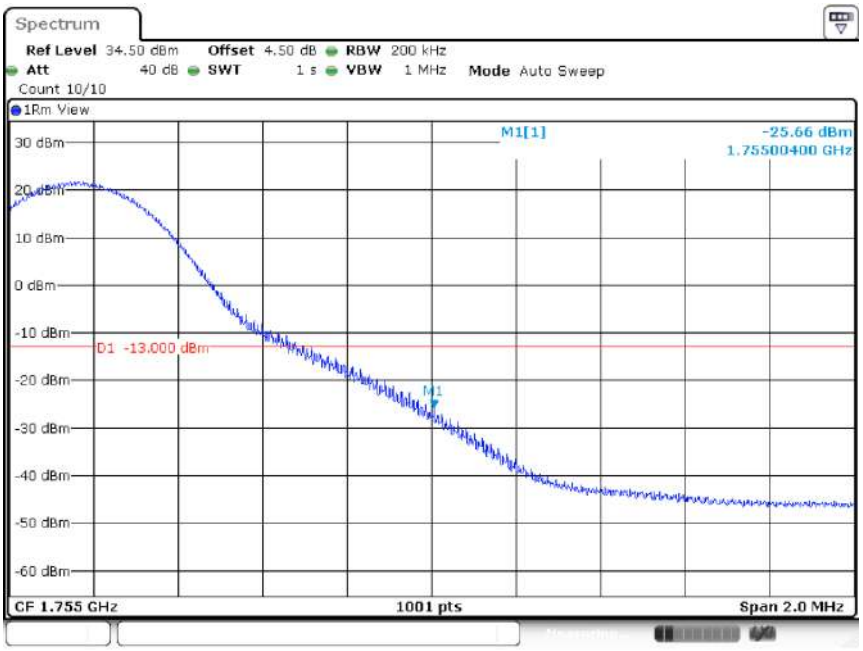
Band4-15MHz-64QAM-20325-1RB#74



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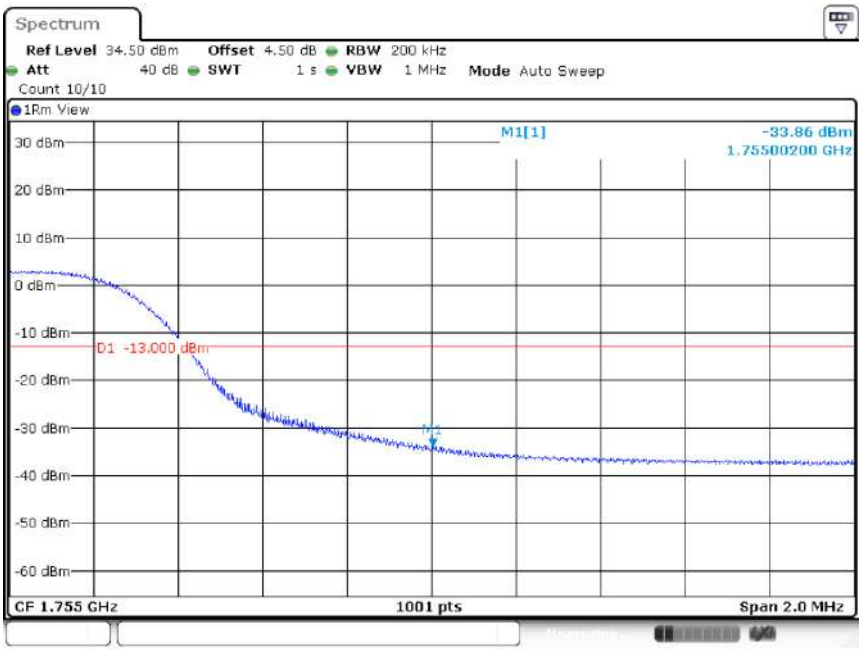
Band4-15MHz-64QAM-20325-75RB#0



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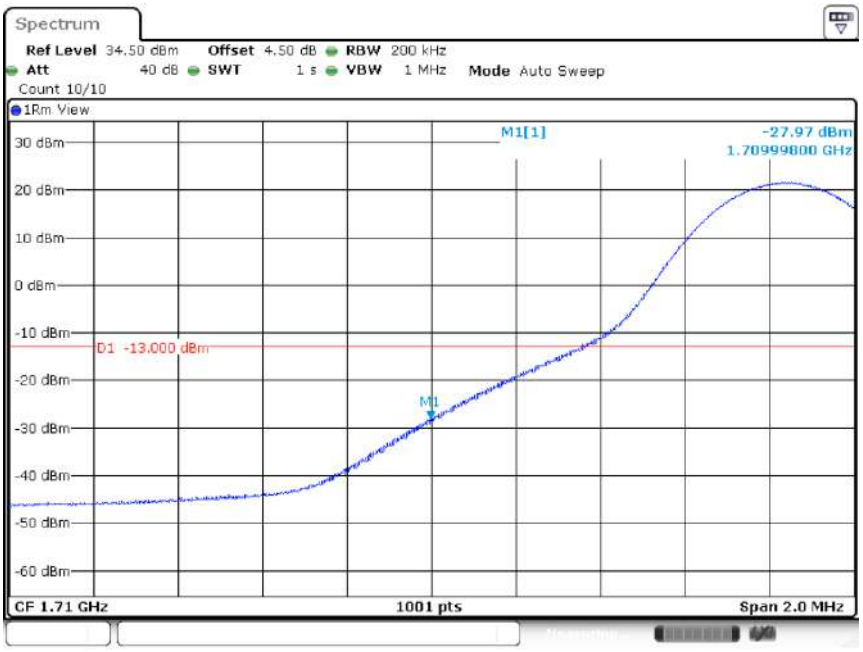
Band4-15MHz-16QAM-20025-1RB#0



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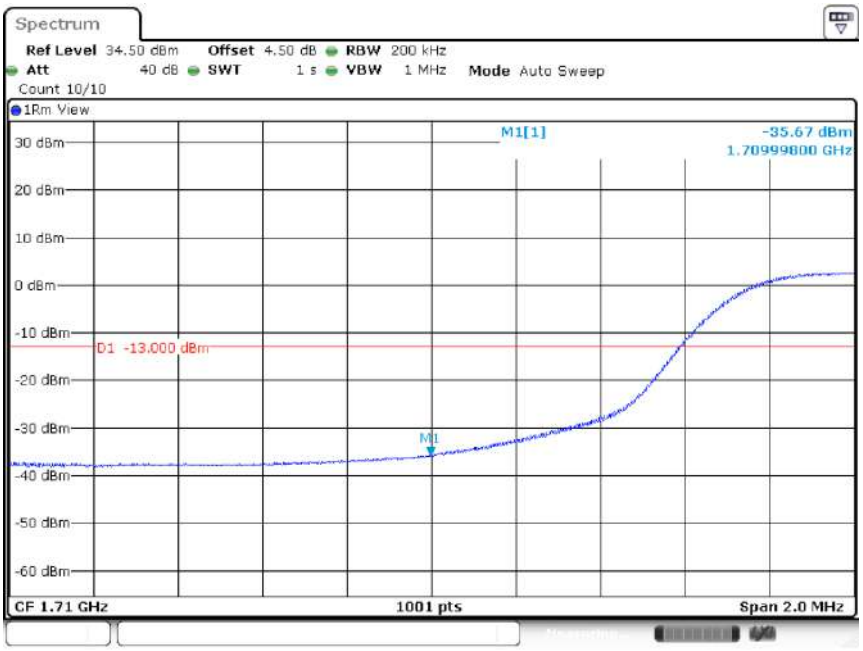
Band4-15MHz-16QAM-20025-75RB#0



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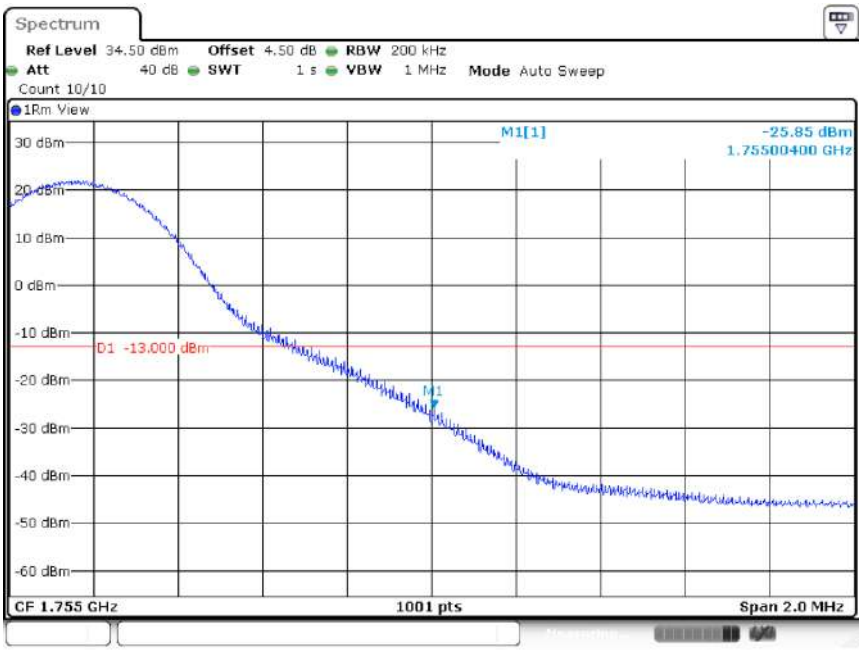
Band4-15MHz-16QAM-20325-1RB#74



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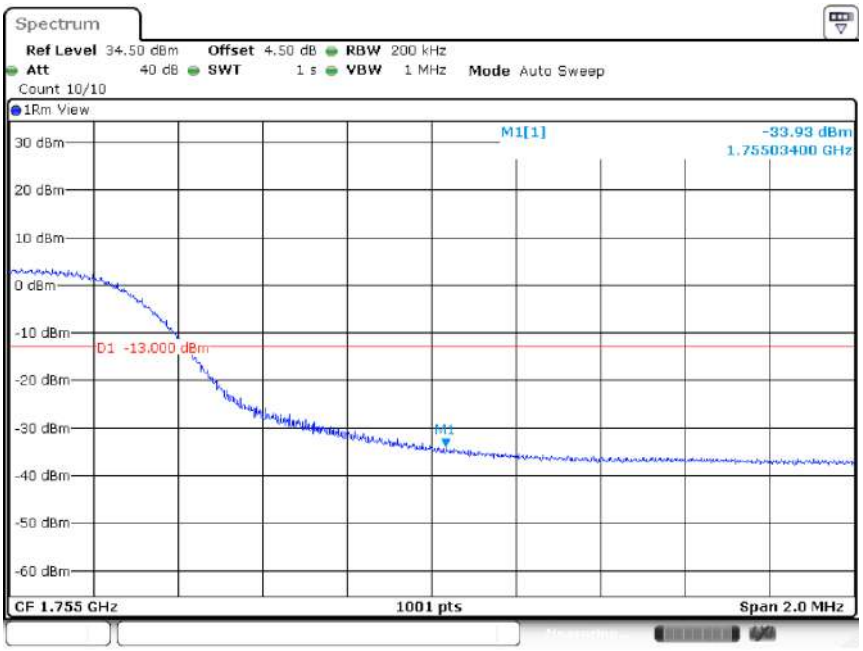
Band4-15MHz-16QAM-20325-75RB#0



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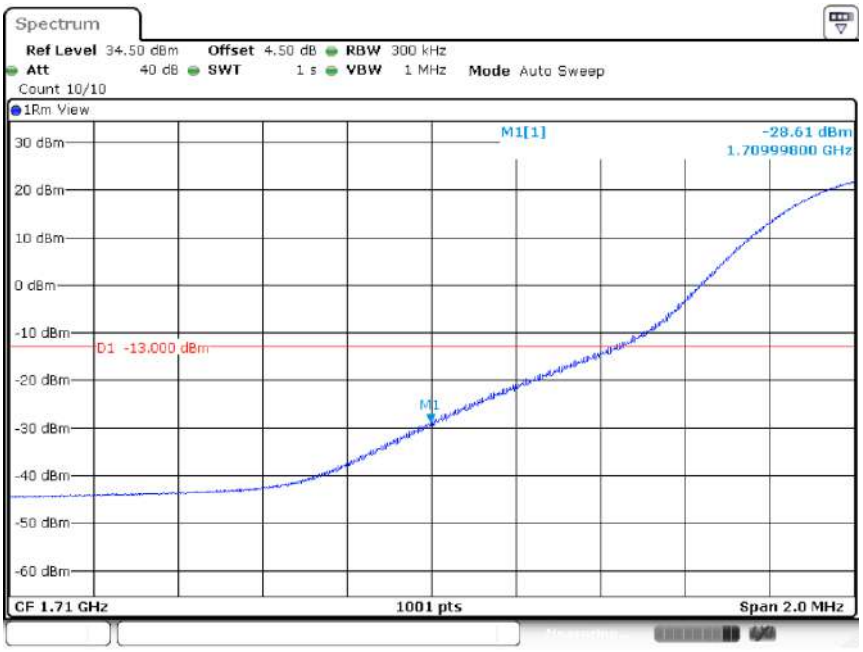
Band4-20MHz-QPSK-20050-1RB#0



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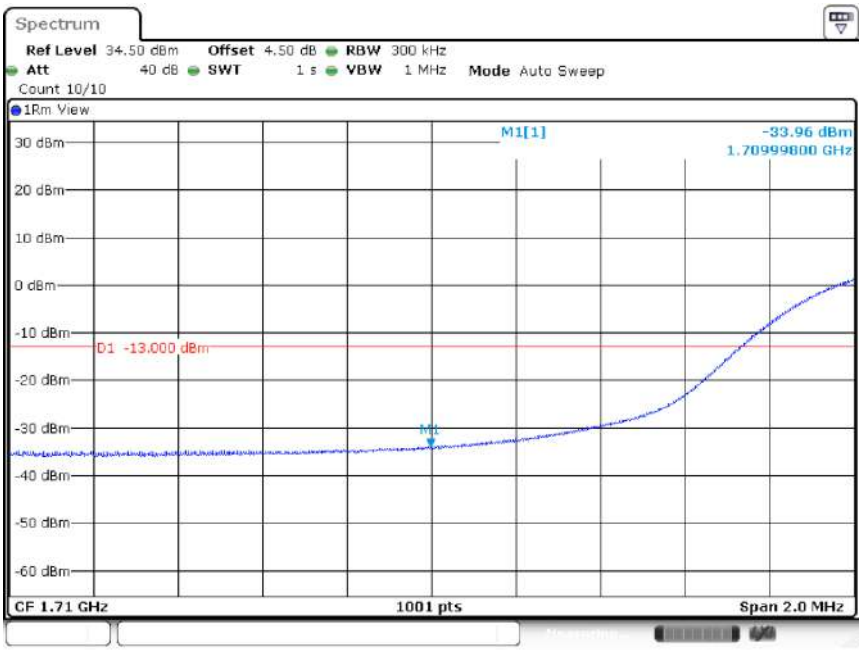
Band4-20MHz-QPSK-20050-100RB#0



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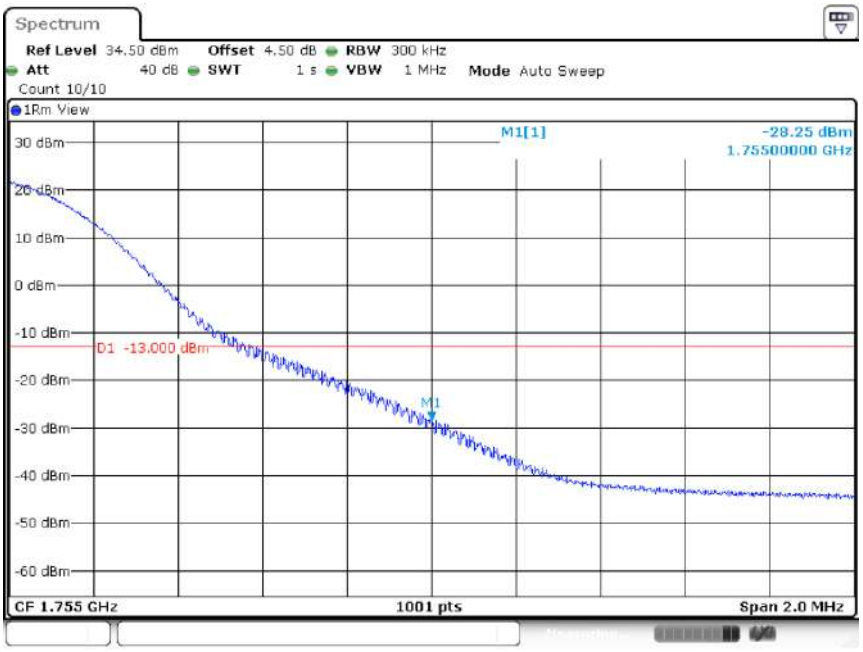
Band4-20MHz-QPSK-20300-1RB#99



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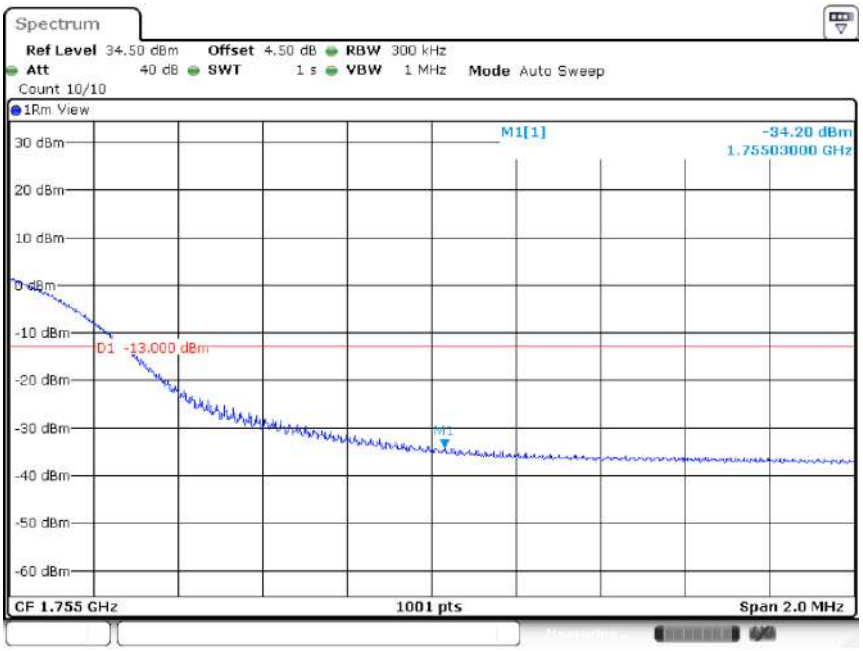
Band4-20MHz-QPSK-20300-100RB#0



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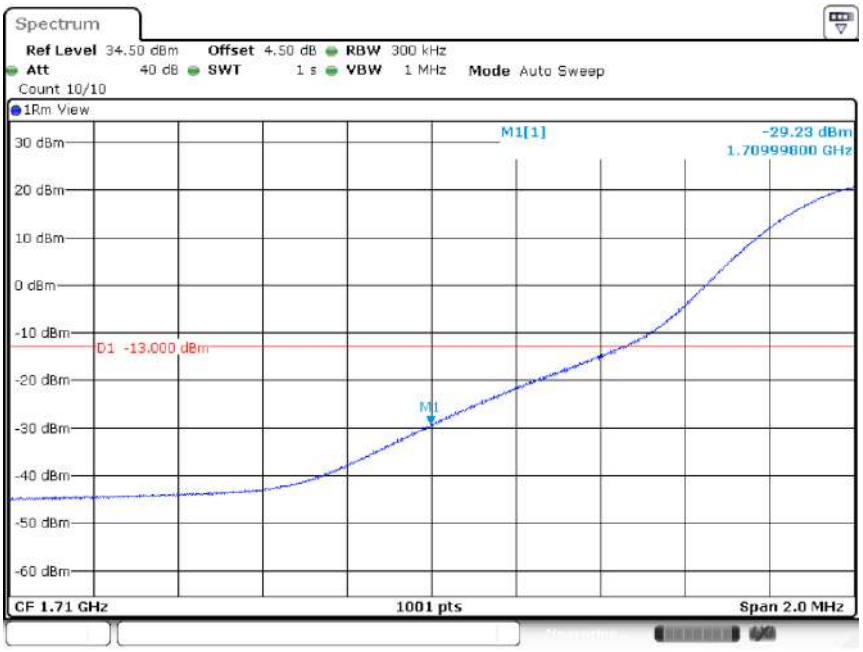
Band4-20MHz-64QAM-20050-1RB#0



Date: 4.SEP.2020 00:05:37

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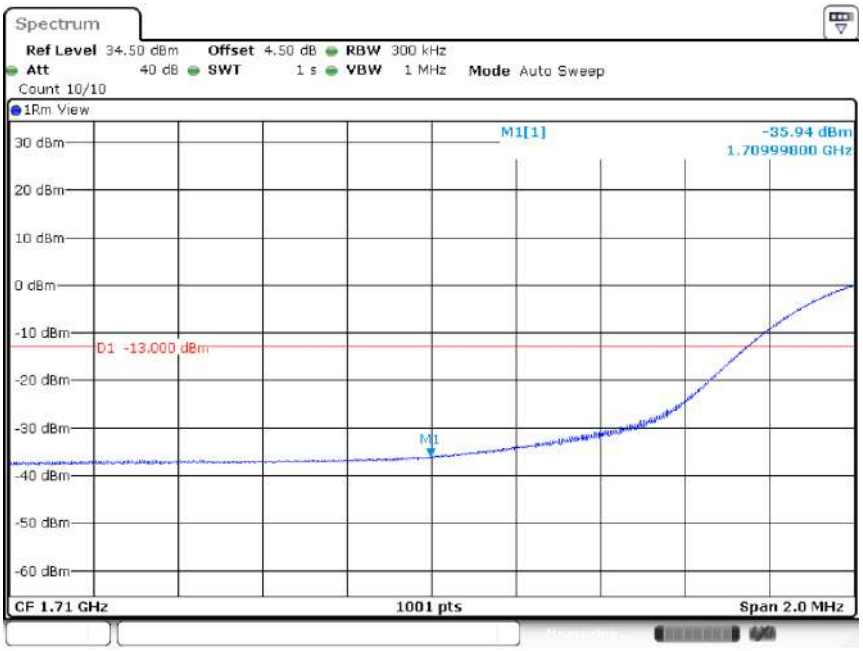

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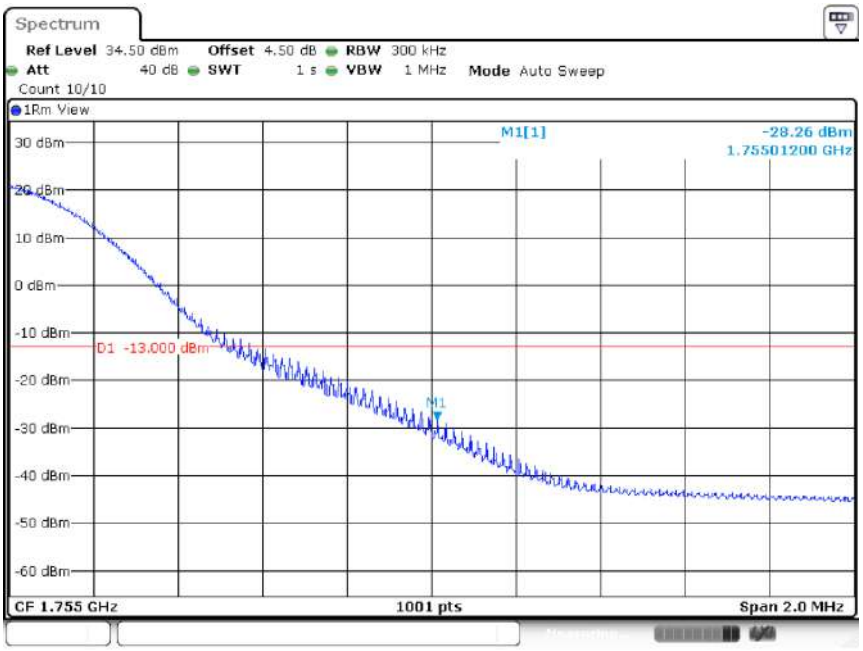
Band4-20MHz-64QAM-20300-1RB#99



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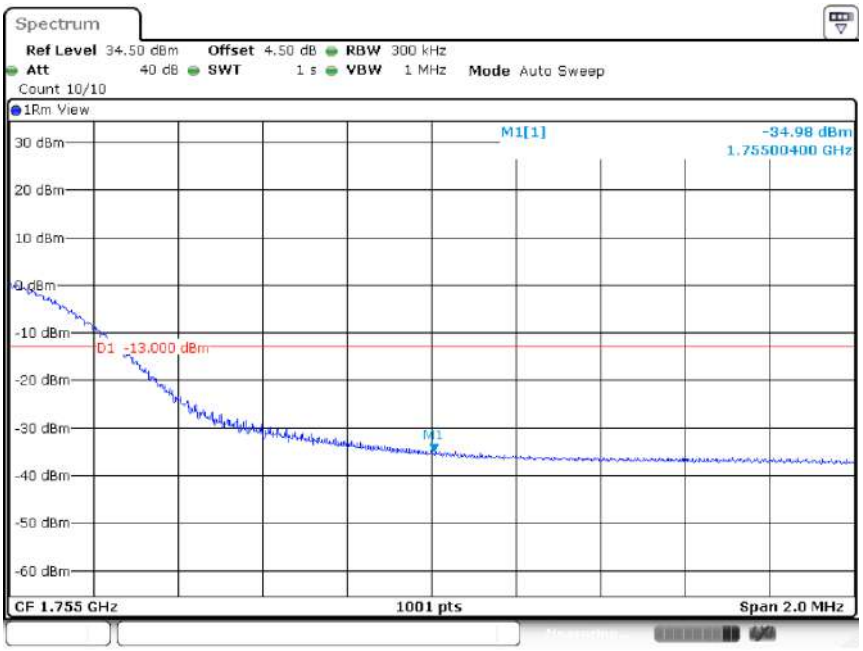
Band4-20MHz-64QAM-20300-100RB#0



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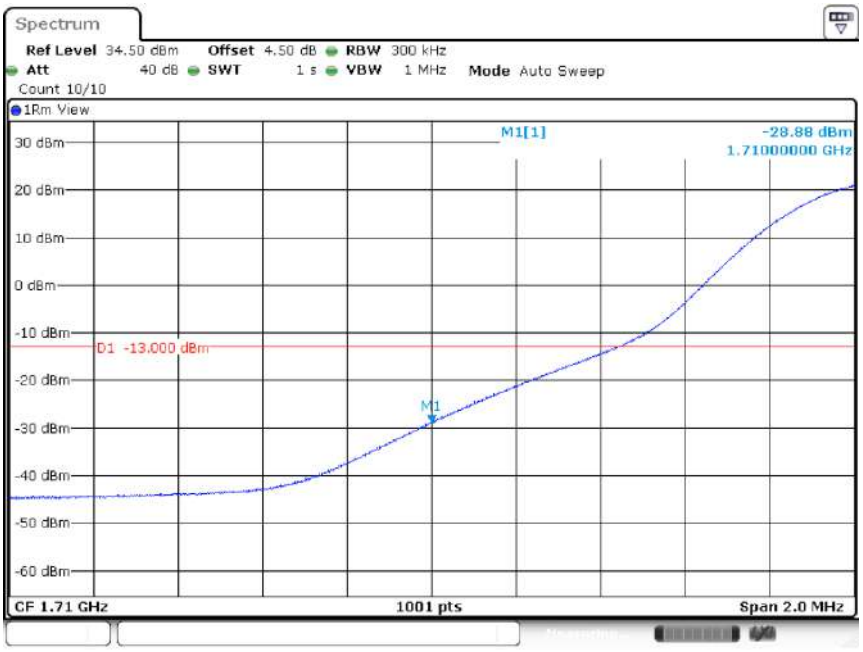
Band4-20MHz-16QAM-20050-1RB#0



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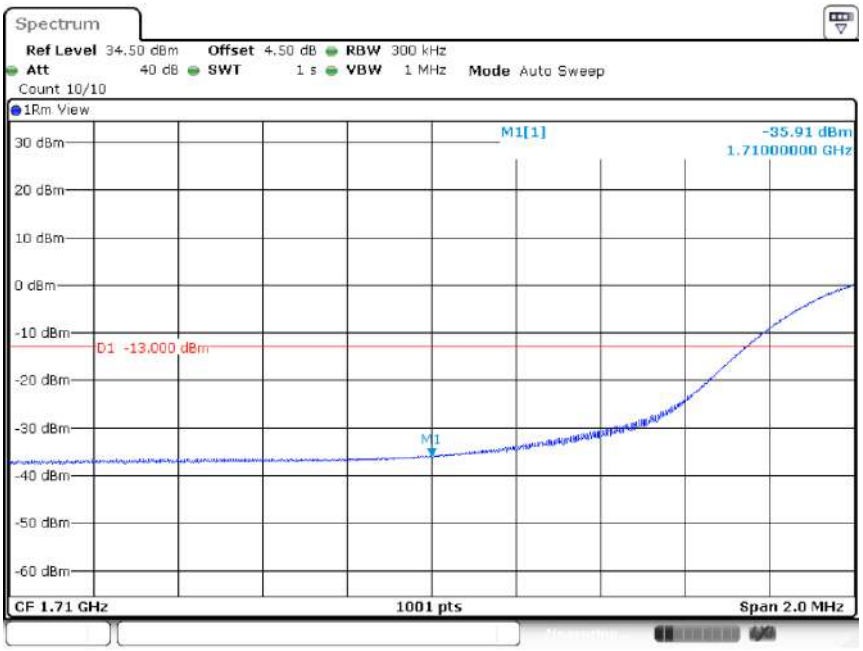
Band4-20MHz-16QAM-20050-100RB#0



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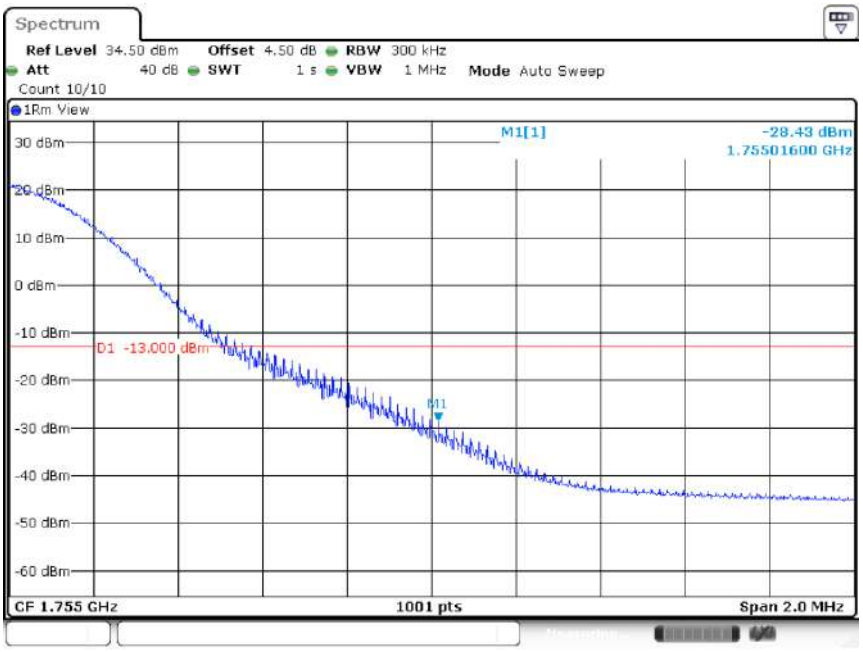
Band4-20MHz-16QAM-20300-1RB#99



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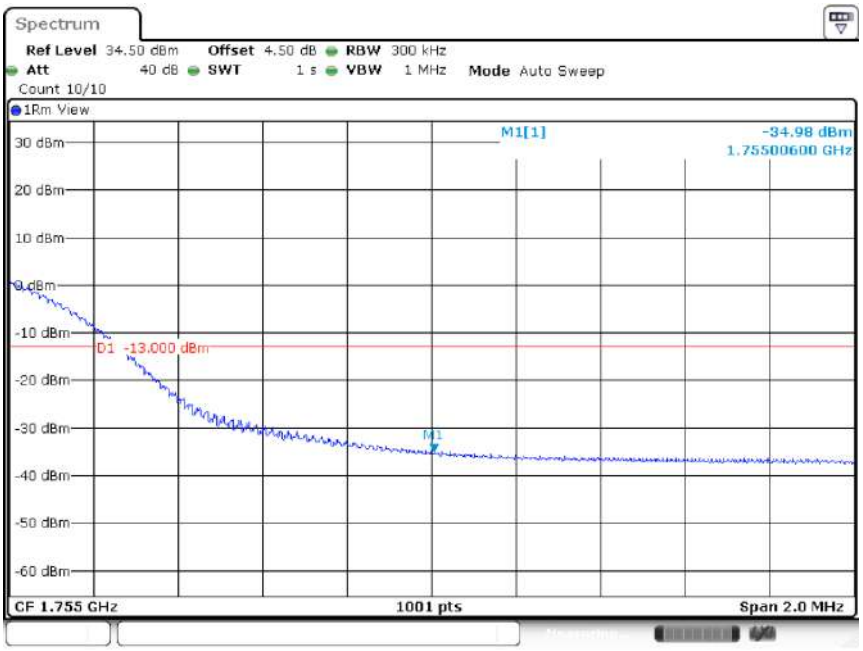
Band4-20MHz-16QAM-20300-100RB#0



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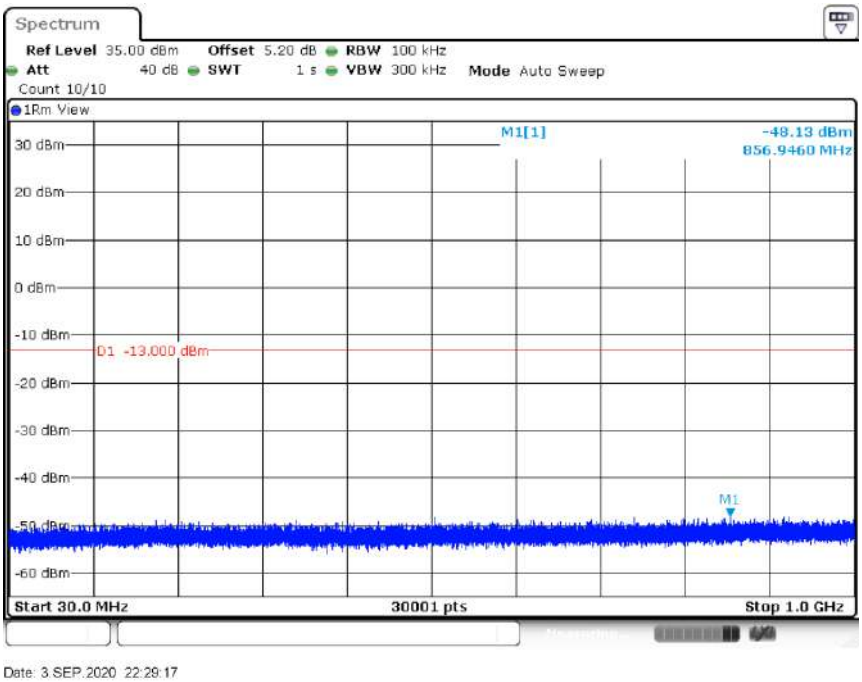
6. Spurious Emission at Antenna Terminal

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 * (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



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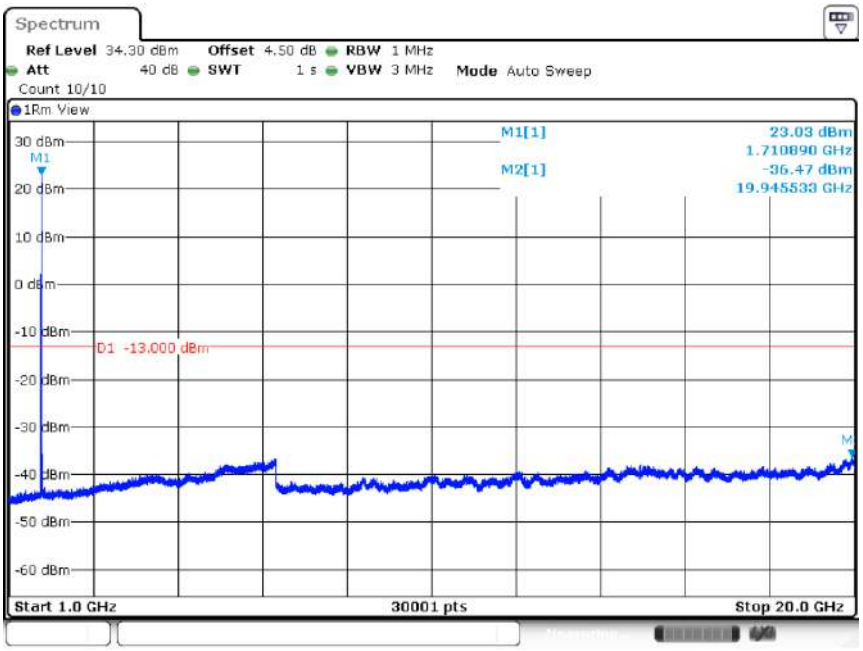
Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



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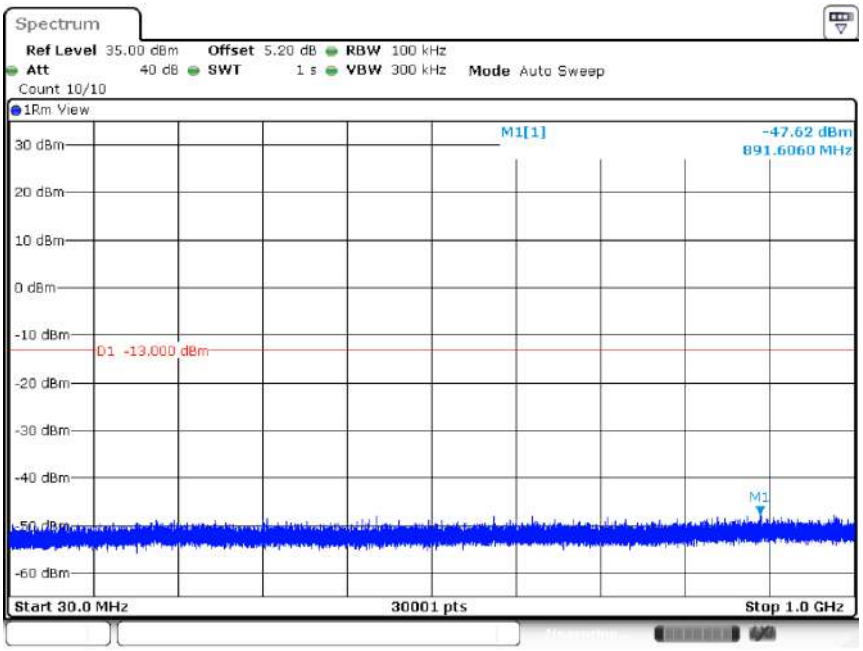
Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



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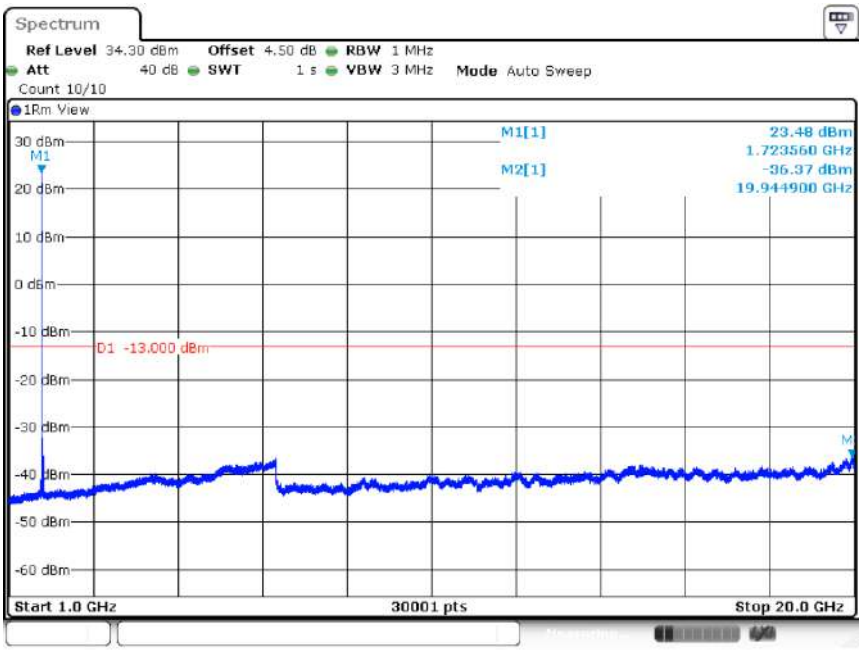
Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



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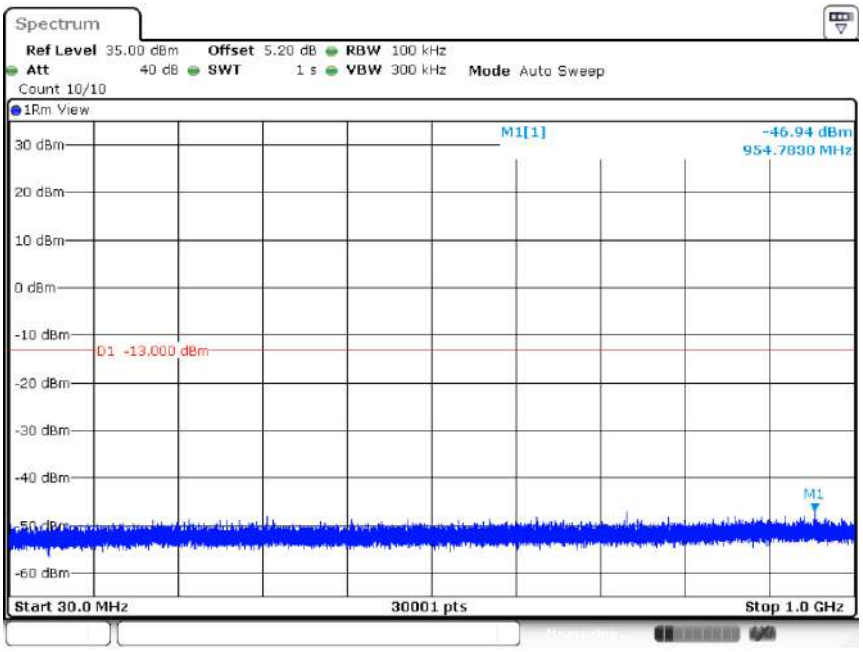
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



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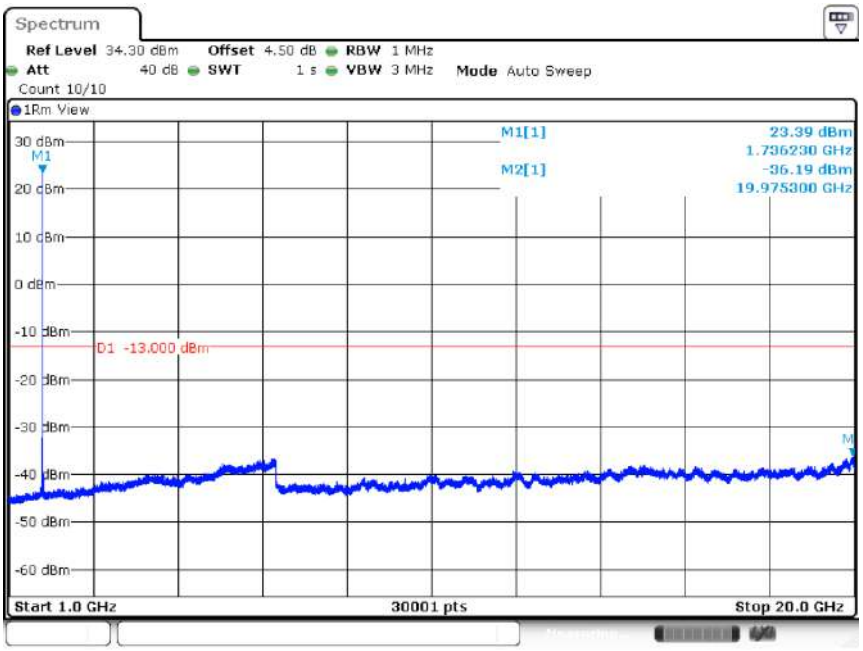
Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



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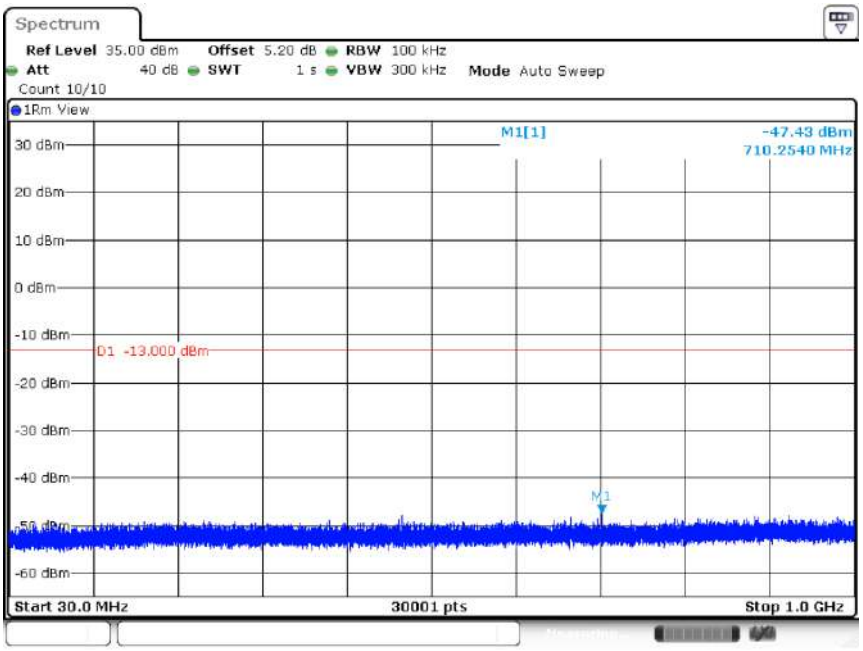
Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



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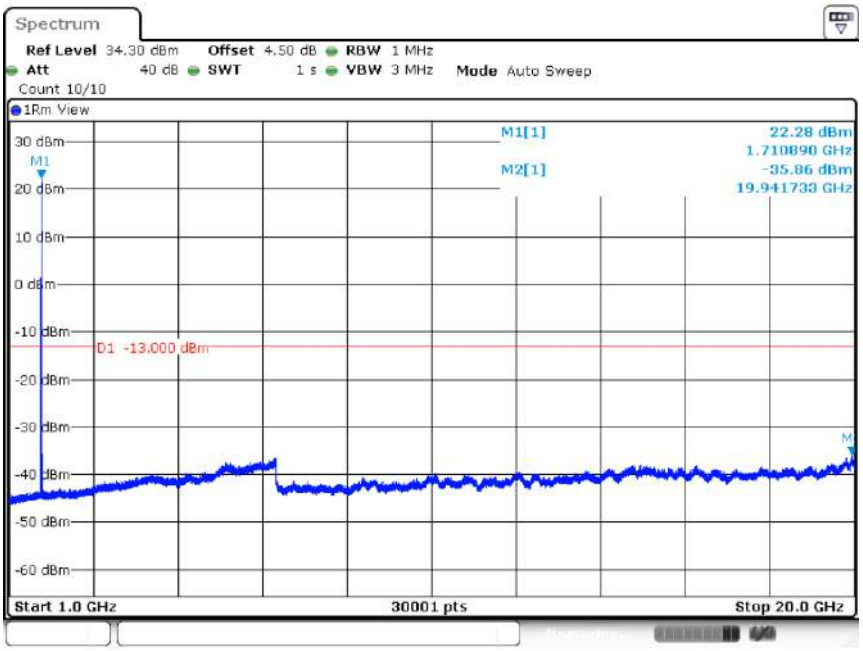
Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



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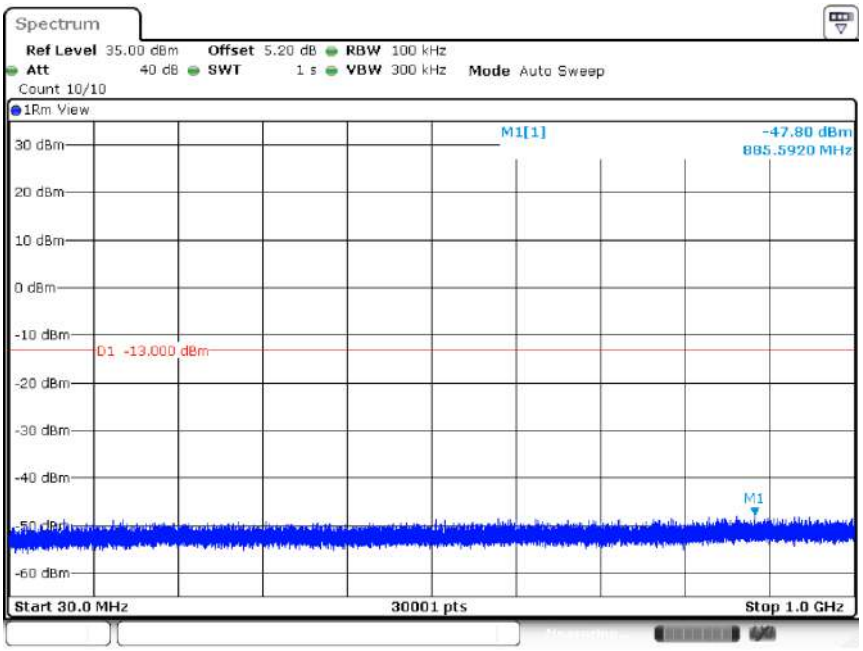
Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



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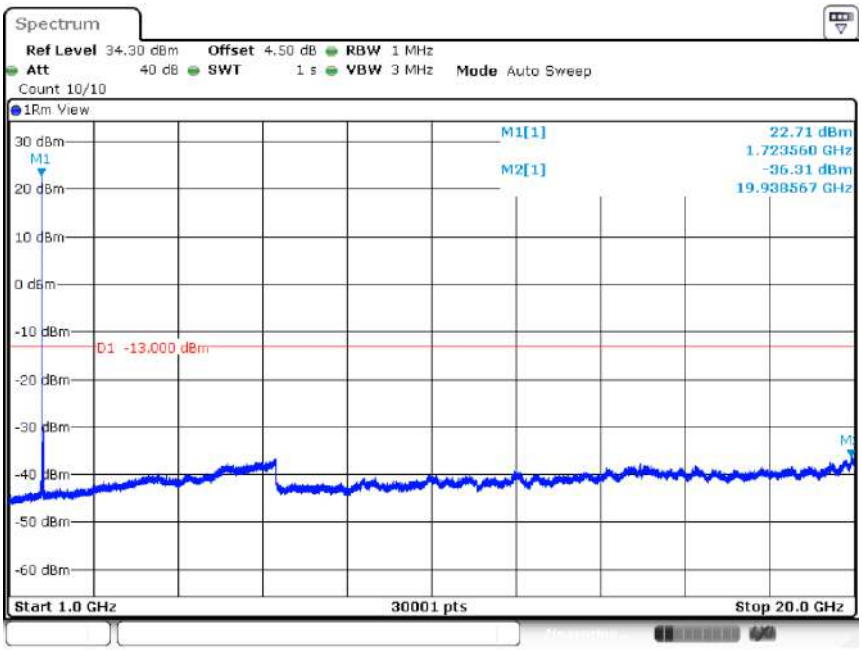
Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz



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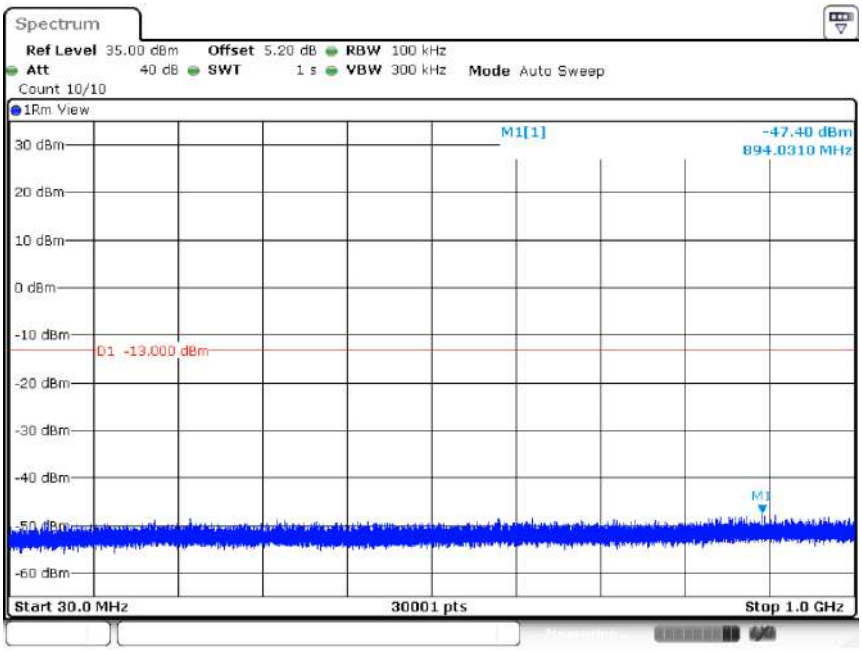

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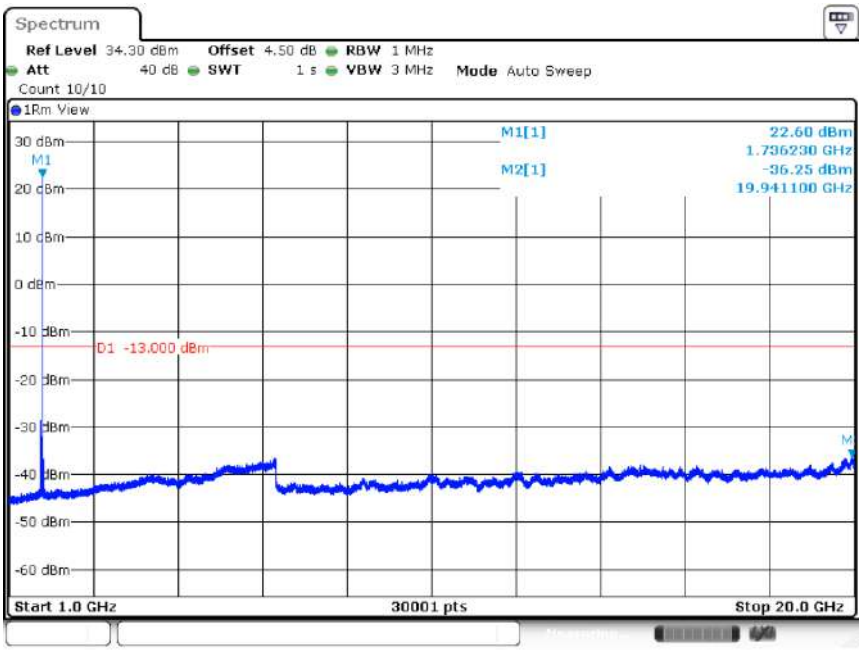

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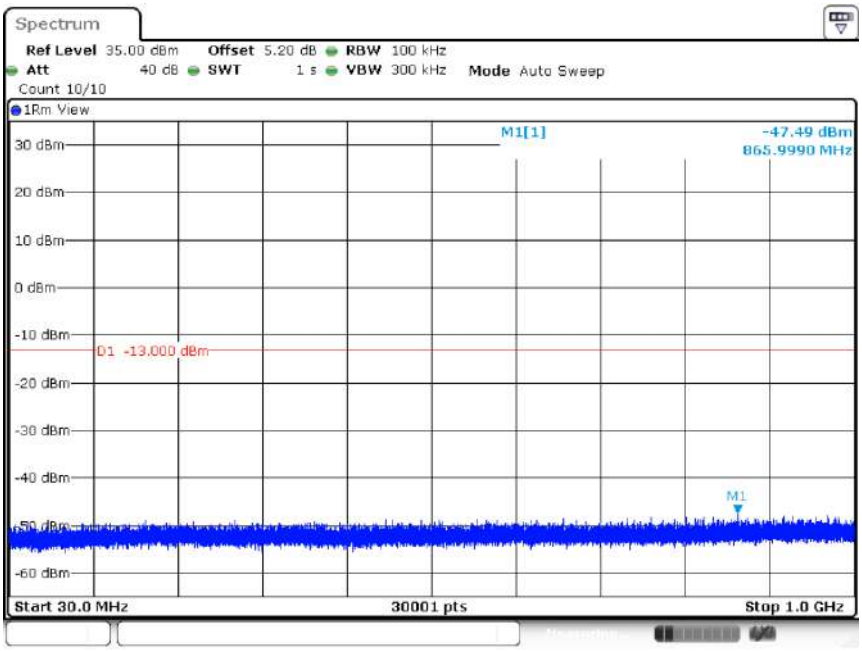

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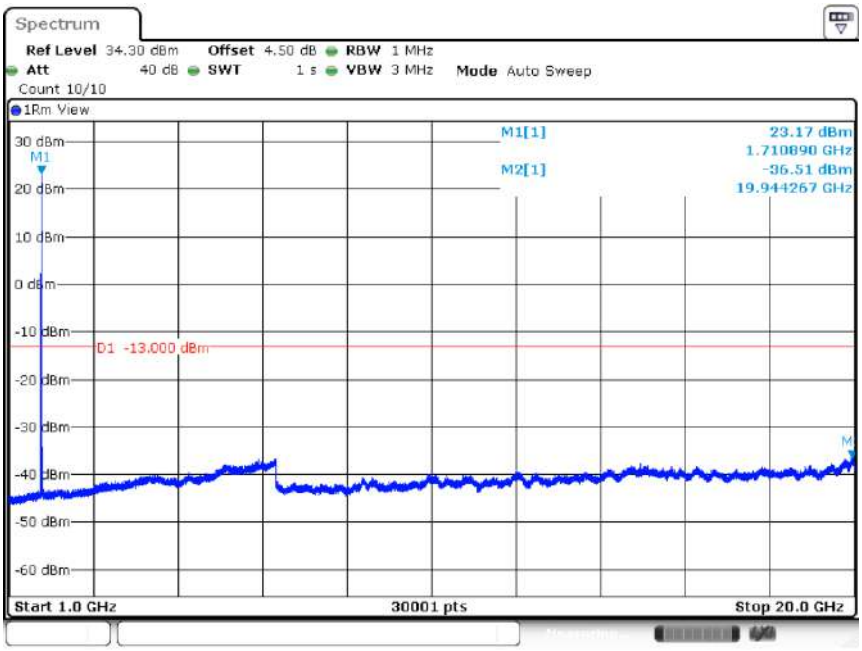

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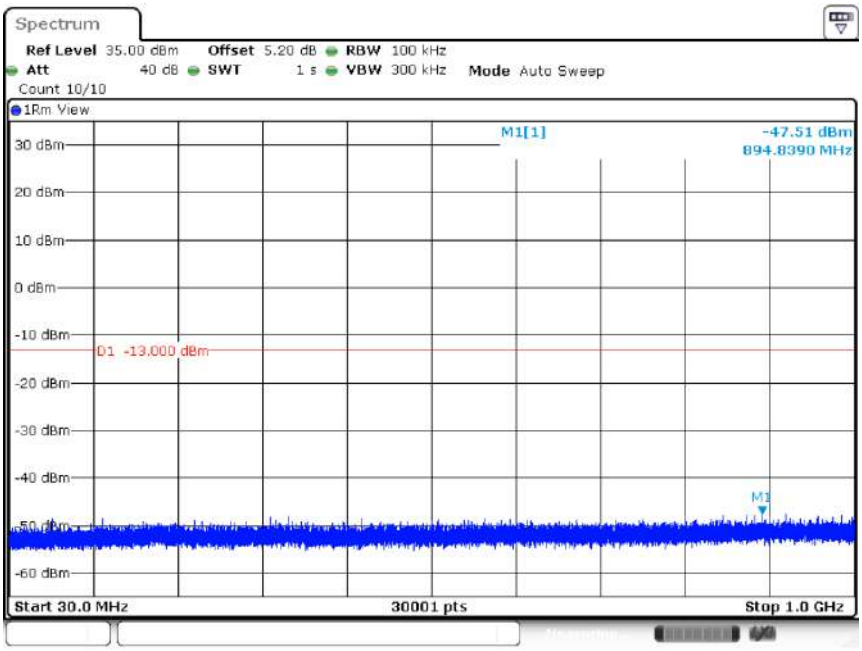

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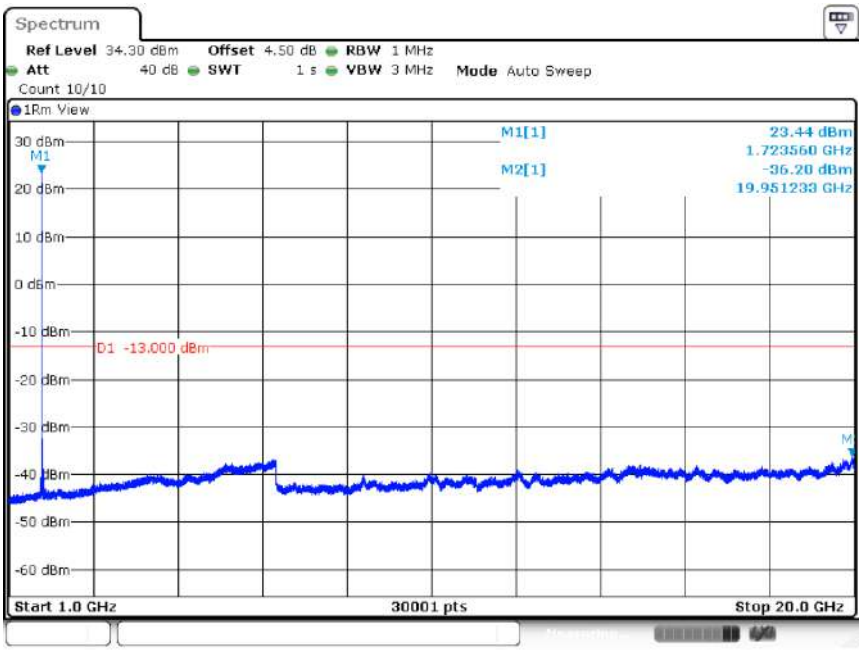
Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



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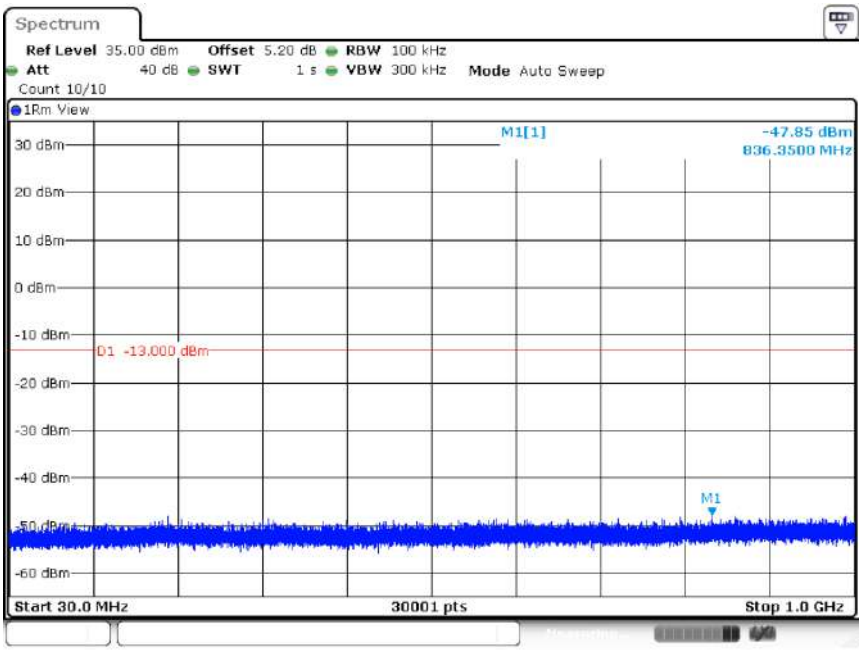

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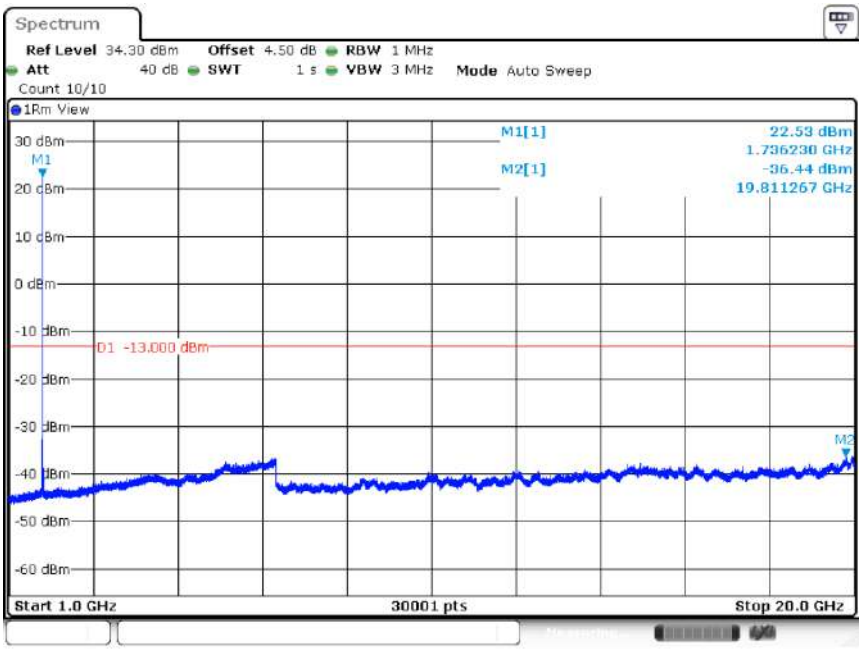
Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.3581	-75.24	-13.00	62.24	177	6	Vertical
118.0804	-64.16	-13.00	51.16	174	133	Vertical
381.7881	-68.22	-13.00	55.22	212	293	Vertical
5024.0675	-61.53	-13.00	48.53	251	133	Vertical
10465.2488	-51.29	-13.00	38.29	211	229	Vertical
17996.9999	-39.87	-13.00	26.87	154	261	Vertical
45.4723	-64.35	-13.00	51.35	258	165	Horizontal
228.4234	-68.71	-13.00	55.71	241	38	Horizontal
609.3130	-62.94	-13.00	49.94	158	165	Horizontal
3540.5180	-60.84	-13.00	47.84	196	261	Horizontal
7349.1450	-56.24	-13.00	43.24	284	133	Horizontal
16392.9464	-43.16	-13.00	30.16	164	325	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0000	-74.39	-13.00	61.39	174	6	Vertical
108.9619	-65.00	-13.00	52.00	185	165	Vertical
364.9577	-68.16	-13.00	55.16	196	261	Vertical
5099.0700	-62.10	-13.00	49.10	231	356	Vertical
9859.7287	-52.19	-13.00	39.19	251	6	Vertical
17999.0000	-39.70	-13.00	26.70	164	6	Vertical
39.8945	-64.26	-13.00	51.26	185	5	Horizontal
100.9590	-75.19	-13.00	62.19	158	165	Horizontal
223.8157	-68.28	-13.00	55.28	258	293	Horizontal
3447.5149	-61.18	-13.00	48.18	149	197	Horizontal
7467.1489	-56.37	-13.00	43.37	194	293	Horizontal
16404.4468	-43.42	-13.00	30.42	258	37	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
46.4908	-72.12	-13.00	59.12	258	69	Vertical
113.9577	-65.23	-13.00	52.23	159	38	Vertical
380.6240	-68.27	-13.00	55.27	199	165	Vertical
3734.5245	-61.90	-13.00	48.90	321	356	Vertical
8022.1674	-55.60	-13.00	42.60	262	6	Vertical
17997.4999	-39.91	-13.00	26.91	228	325	Vertical
40.6220	-64.22	-13.00	51.22	158	5	Horizontal
96.8848	-73.26	-13.00	60.26	196	229	Horizontal
233.0797	-67.29	-13.00	54.29	321	37	Horizontal
5068.5690	-61.58	-13.00	48.58	262	5	Horizontal
9977.7326	-52.14	-13.00	39.14	284	5	Horizontal
16375.9459	-43.41	-13.00	30.41	154	292	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	1.50	0.000872	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.50	0.002035	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	3.10	0.001802	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	3.60	0.002093	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	3.70	0.002151	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	1.10	0.000635	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	2.30	0.001328	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	1.40	0.000808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	2.00	0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	3.50	0.002035	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	2.60	0.001501	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	2.40	0.001385	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-0.40	-0.000229	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	2.50	0.001453	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	2.60	0.001512	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	1.70	0.000988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	1.20	0.000698	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	0.50	0.000291	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	3.10	0.001802	±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	-20	2.70	0.001558	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.70	0.000981	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.90	0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	2.40	0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.50	-0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.80	0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-1.30	-0.000745	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-2.20	-0.001261	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	0.10	0.000057	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	3.40	0.001977	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	3.00	0.001744	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	3.20	0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	0.20	0.000116	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	2.20	0.001279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	0.80	0.000465	±2.5	PASS

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Band4	20MHz	64QAM	20050	100RB#0	NV	40	2.00	0.001163	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	1.20	0.000698	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	0.60	0.000346	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	2.30	0.001328	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	2.10	0.001212	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	3.10	0.001789	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	0.10	0.000058	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	2.60	0.001501	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	-1.70	-0.000974	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-0.30	-0.000172	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-5.30	-0.003037	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	3.40	0.001977	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	3.80	0.002209	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	3.70	0.002151	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	3.60	0.002093	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	1.50	0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	0.90	0.000523	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	0.70	0.000407	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	2.90	0.001686	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	1.10	0.000635	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.90	0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	2.90	0.001674	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-1.30	-0.000750	±2.5	PASS

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Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-1.20	-0.000688	±2.5	PASS

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