Appendix B

E-UTRA Band 5

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.39	15.34	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.46	15.41	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.40	15.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.46	15.41	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.46	15.41	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.41	15.36	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.43	14.38	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.48	15.43	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.42	15.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.35	15.30	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.41	15.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.42	15.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.39	15.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.35	14.30	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.54	15.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.50	15.45	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.51	15.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.52	15.47	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.57	15.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.55	15.50	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.50	14.45	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.56	13.51	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.61	13.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.64	13.59	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	20.27	13.22	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	20.29	13.24	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	20.35	13.30	38.45	PASS

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Band5	1.4MHz	64QAM	20407	6RB#0	19.38	12.33	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.55	13.50	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.65	13.60	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.58	13.53	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	20.25	13.20	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	20.25	13.20	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	20.24	13.19	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.32	12.27	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.58	13.53	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.74	13.69	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.68	13.63	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	20.27	13.22	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	20.36	13.31	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	20.37	13.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.48	12.43	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.73	14.68	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.78	14.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.76	14.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.43	14.38	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.47	14.42	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.46	14.41	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.52	13.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.71	14.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.75	14.70	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.68	14.63	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.44	14.39	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.44	14.39	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.41	14.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.43	13.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.74	14.69	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.87	14.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.84	14.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.47	14.42	38.45	PASS

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Band5	1.4MHz	16QAM	20643	3RB#1	21.55	14.50	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.48	14.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.62	13.57	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.47	15.42	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.54	15.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.42	15.37	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.49	14.44	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.52	14.47	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.48	14.43	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.49	14.44	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.56	15.51	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.53	15.48	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.47	15.42	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.42	14.37	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.45	14.40	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.41	14.36	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.44	14.39	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.54	15.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.59	15.54	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.61	15.56	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.54	14.49	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.59	14.54	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.55	14.50	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.55	14.50	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.59	13.54	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.67	13.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.57	13.52	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	20.33	13.28	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	20.29	13.24	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.31	13.26	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.33	12.28	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.57	13.52	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.65	13.60	38.45	PASS

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Band5	3MHz	64QAM	20525	1RB#14	20.52	13.47	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.28	13.23	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	20.25	13.20	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.23	13.18	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.27	12.22	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.54	13.49	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.75	13.70	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.74	13.69	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.28	13.23	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	20.42	13.37	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.31	13.26	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.52	12.47	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.82	14.77	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.82	14.77	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.77	14.72	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.60	13.55	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.59	13.54	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.59	13.54	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.54	13.49	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.66	14.61	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.80	14.75	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.80	14.75	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.56	13.51	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.55	13.50	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.48	13.43	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.48	13.43	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.79	14.74	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.93	14.88	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.94	14.89	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.60	13.55	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.65	13.60	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.68	13.63	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.56	13.51	38.45	PASS

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Band5	5MHz	QPSK	20425	1RB#0	22.46	15.41	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.50	15.45	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.46	15.41	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.49	14.44	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.53	14.48	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.47	14.42	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.49	14.44	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.57	15.52	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.46	15.41	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.44	15.39	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.48	14.43	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.50	14.45	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.42	14.37	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.44	14.39	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.57	15.52	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.54	15.49	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.58	15.53	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.57	14.52	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.57	14.52	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.57	14.52	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.57	14.52	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.62	13.57	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.68	13.63	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.61	13.56	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.33	13.28	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.34	13.29	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.33	13.28	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.41	12.36	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	20.51	13.46	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.56	13.51	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.57	13.52	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.30	13.25	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	20.33	13.28	38.45	PASS

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Band5	5MHz	64QAM	20525	12RB#13	20.21	13.16	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.31	12.26	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.54	13.49	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.75	13.70	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.67	13.62	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.33	13.28	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.35	13.30	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.33	13.28	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.42	12.37	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.83	14.78	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.85	14.80	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.79	14.74	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.57	13.52	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.55	13.50	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.53	13.48	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.54	13.49	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.75	14.70	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.77	14.72	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.79	14.74	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.52	13.47	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.52	13.47	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.45	13.40	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.49	13.44	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.84	14.79	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.86	14.81	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.90	14.85	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.59	13.54	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.60	13.55	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.60	13.55	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.58	13.53	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.68	15.63	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.43	15.38	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.91	15.86	38.45	PASS

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Band5	10MHz	QPSK	20450	25RB#0	21.49	14.44	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.51	14.46	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.56	14.51	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.51	14.46	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.59	15.54	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.39	15.34	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.94	15.89	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.48	14.43	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.44	14.39	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.65	14.60	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.64	14.59	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.69	15.64	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.53	15.48	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.93	15.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.52	14.47	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.59	14.54	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.64	14.59	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.63	14.58	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.57	13.52	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.63	13.58	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.58	13.53	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.26	13.21	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.30	13.25	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	20.30	13.25	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.35	12.30	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.55	13.50	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.55	13.50	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.50	13.45	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.28	13.23	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	20.25	13.20	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	20.22	13.17	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.26	12.21	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.55	13.50	38.45	PASS

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Band5	10MHz	64QAM	20600	1RB#24	20.72	13.67	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.68	13.63	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	20.32	13.27	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	20.40	13.35	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.29	13.24	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.42	12.37	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.88	14.83	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.71	14.66	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.15	15.10	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.51	13.46	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.51	13.46	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.55	13.50	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.52	13.47	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.83	14.78	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.76	14.71	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.05	15.00	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.48	13.43	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.48	13.43	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.57	13.52	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.49	13.44	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.95	14.90	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.84	14.79	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.07	15.02	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.52	13.47	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.55	13.50	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.65	13.60	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.69	13.64	38.45	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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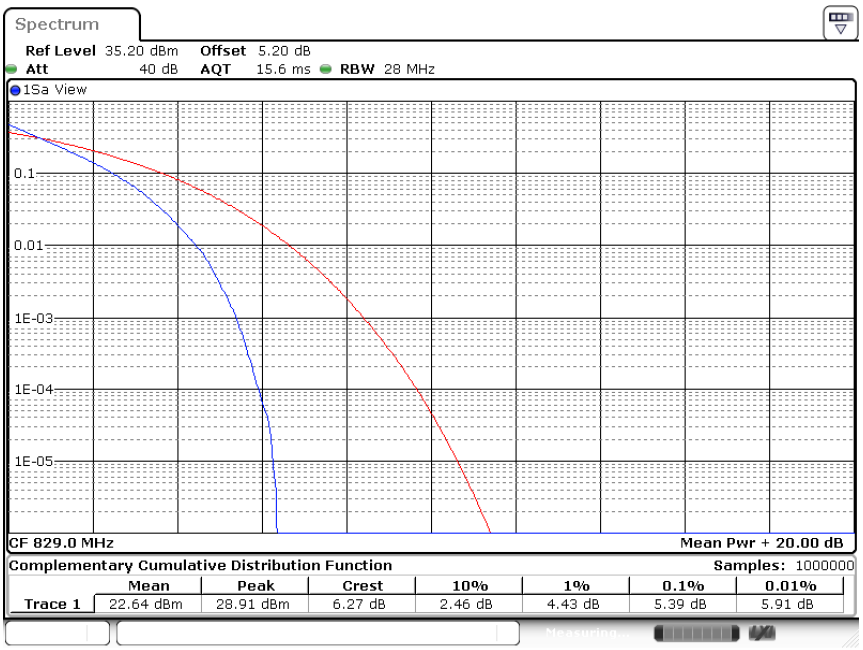
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.74	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.48	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.61	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.75	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.64	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.23	13	PASS

2.2. Test Plots

Band5-10MHz-QPSK-20450-50RB#0



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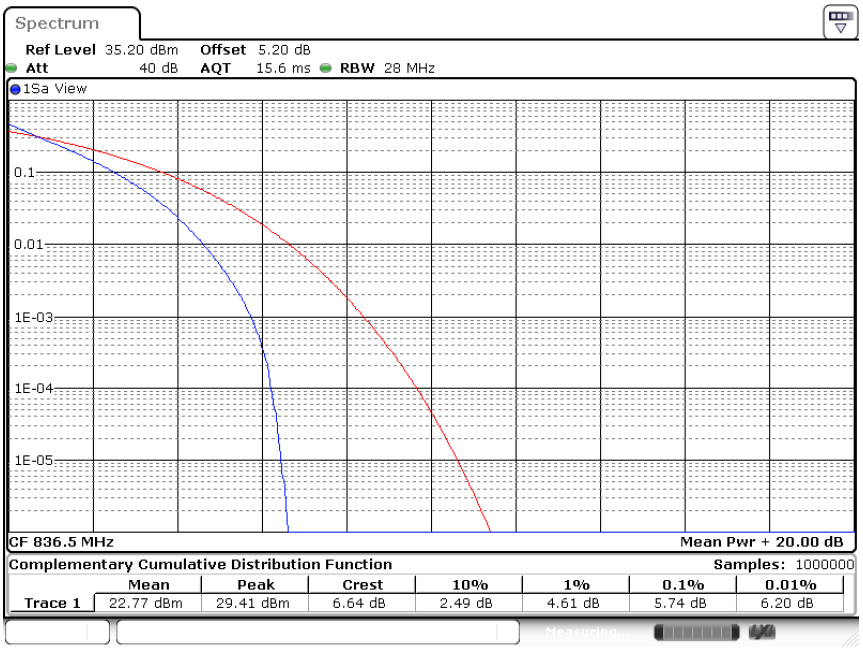
Band5-10MHz-QPSK-20525-50RB#0



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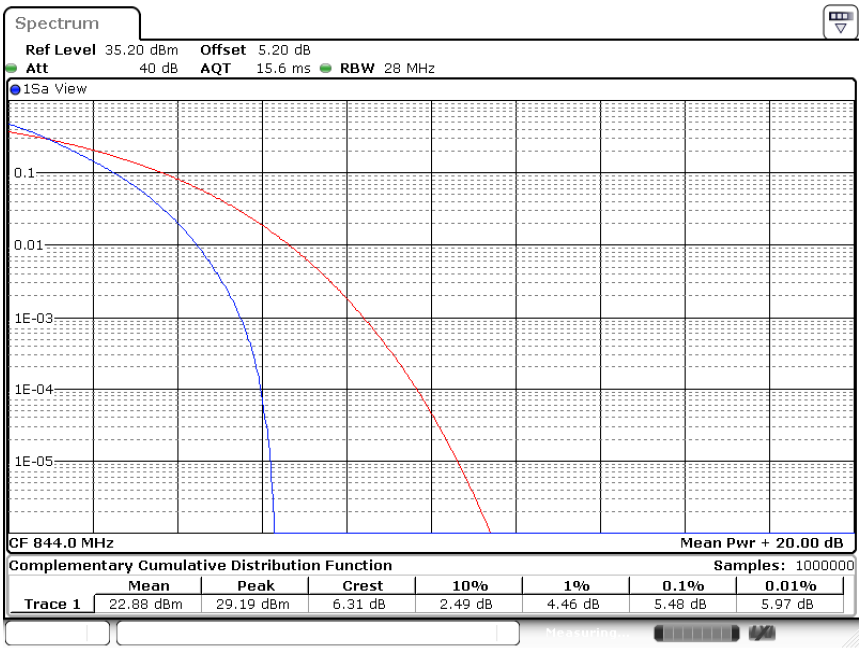
Band5-10MHz-QPSK-20600-50RB#0



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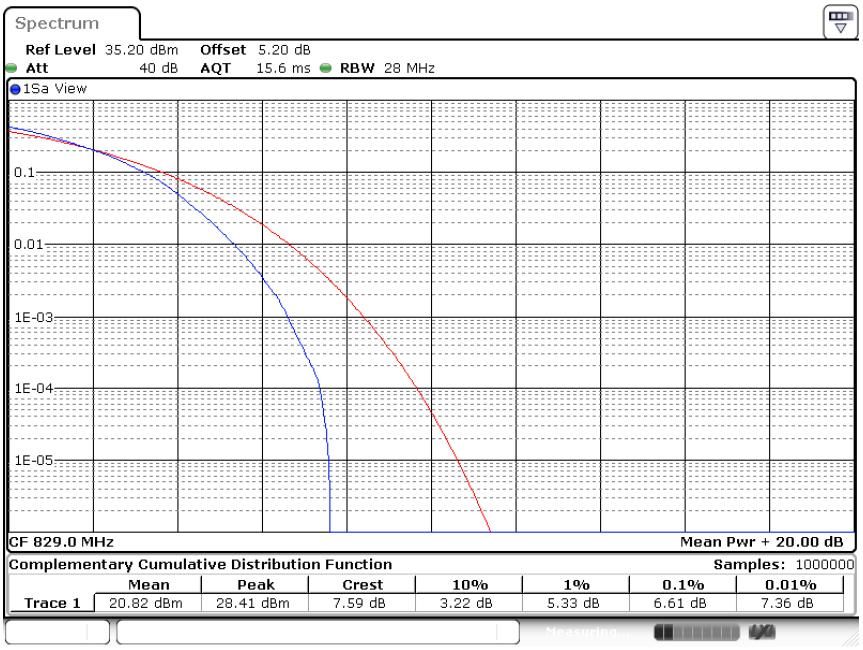

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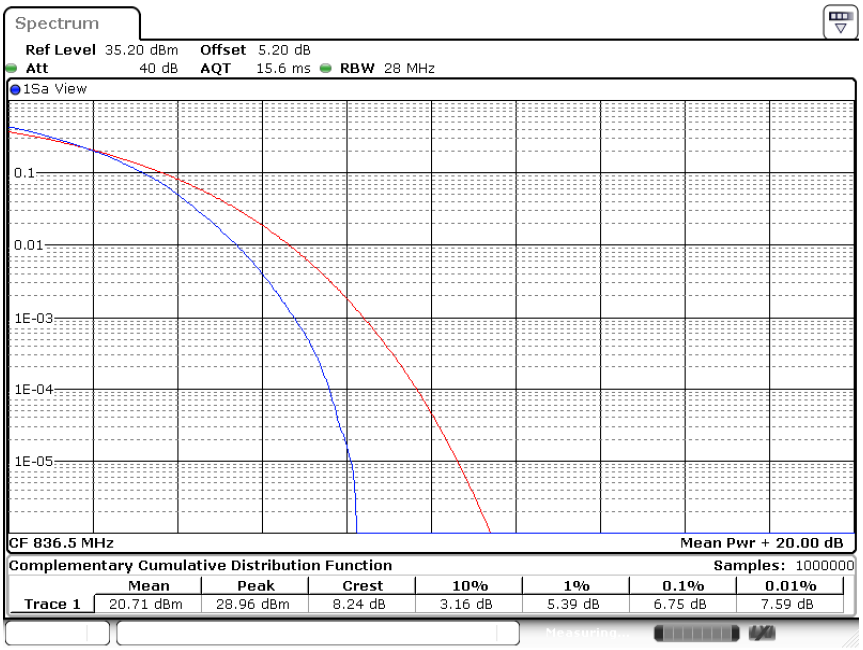

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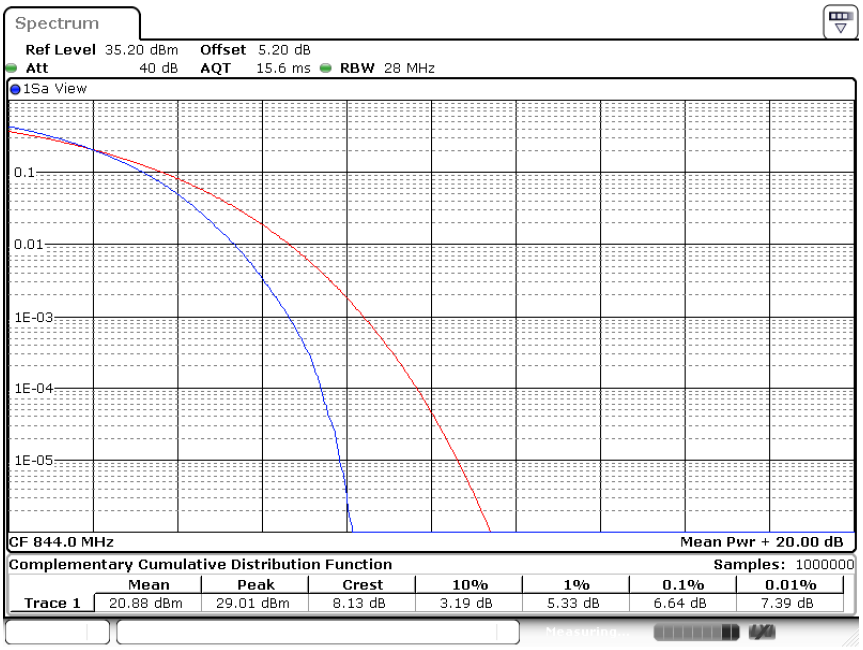
Band5-10MHz-64QAM-20600-50RB#0



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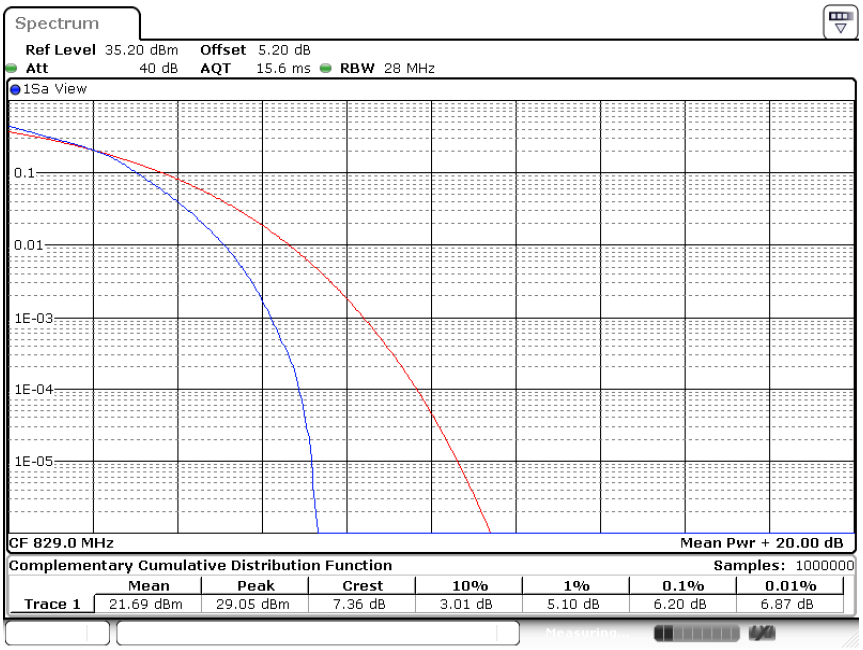
Band5-10MHz-16QAM-20450-50RB#0



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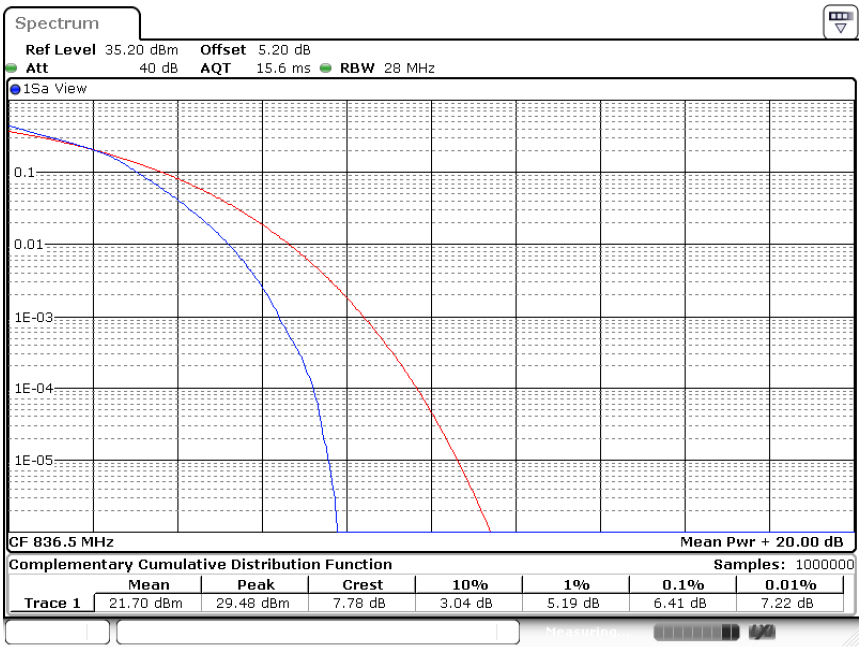
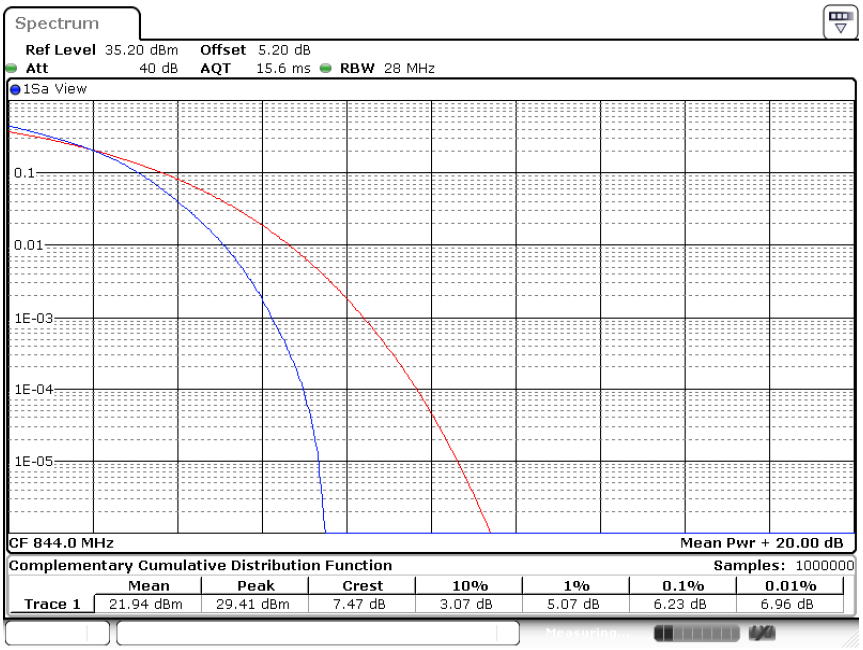


Date: 3.SEP.2020 22:59:40

Band5-10MHz-16QAM-20600-50RB#0



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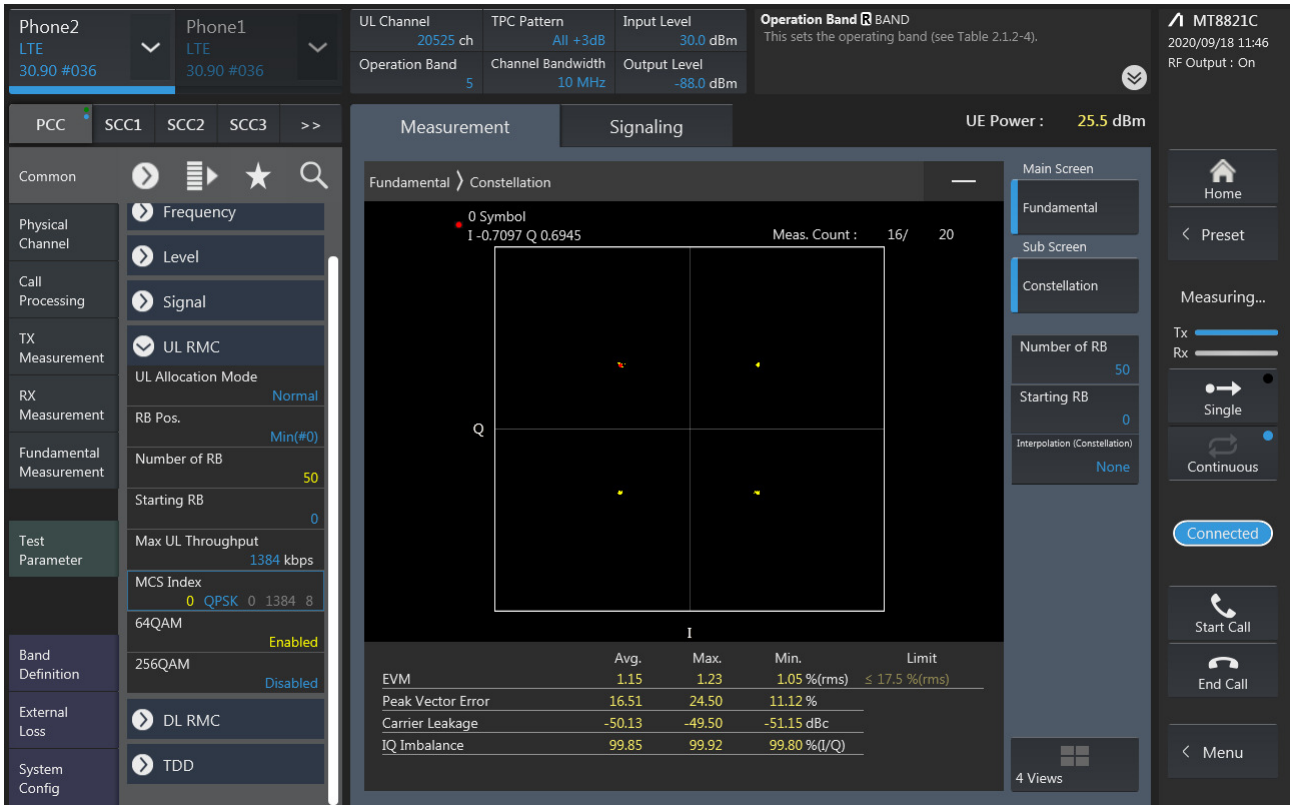
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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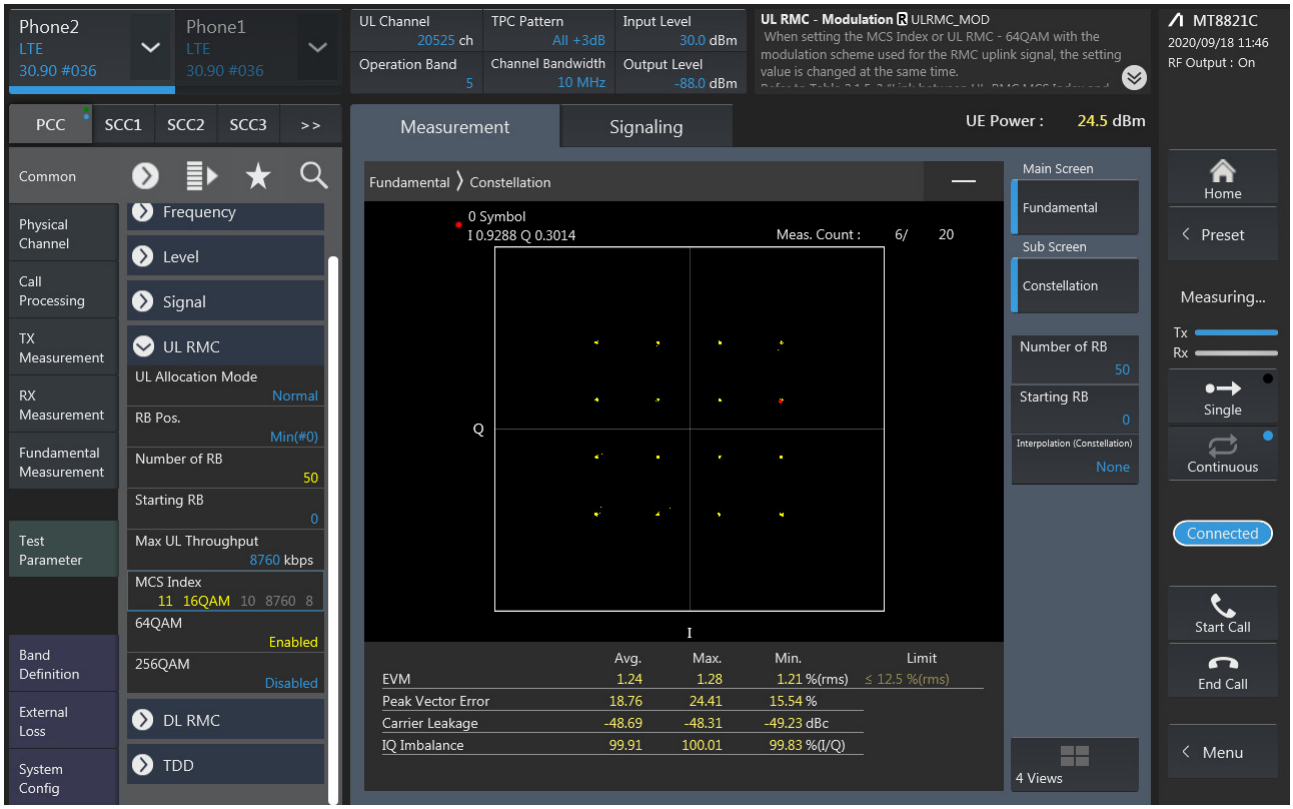
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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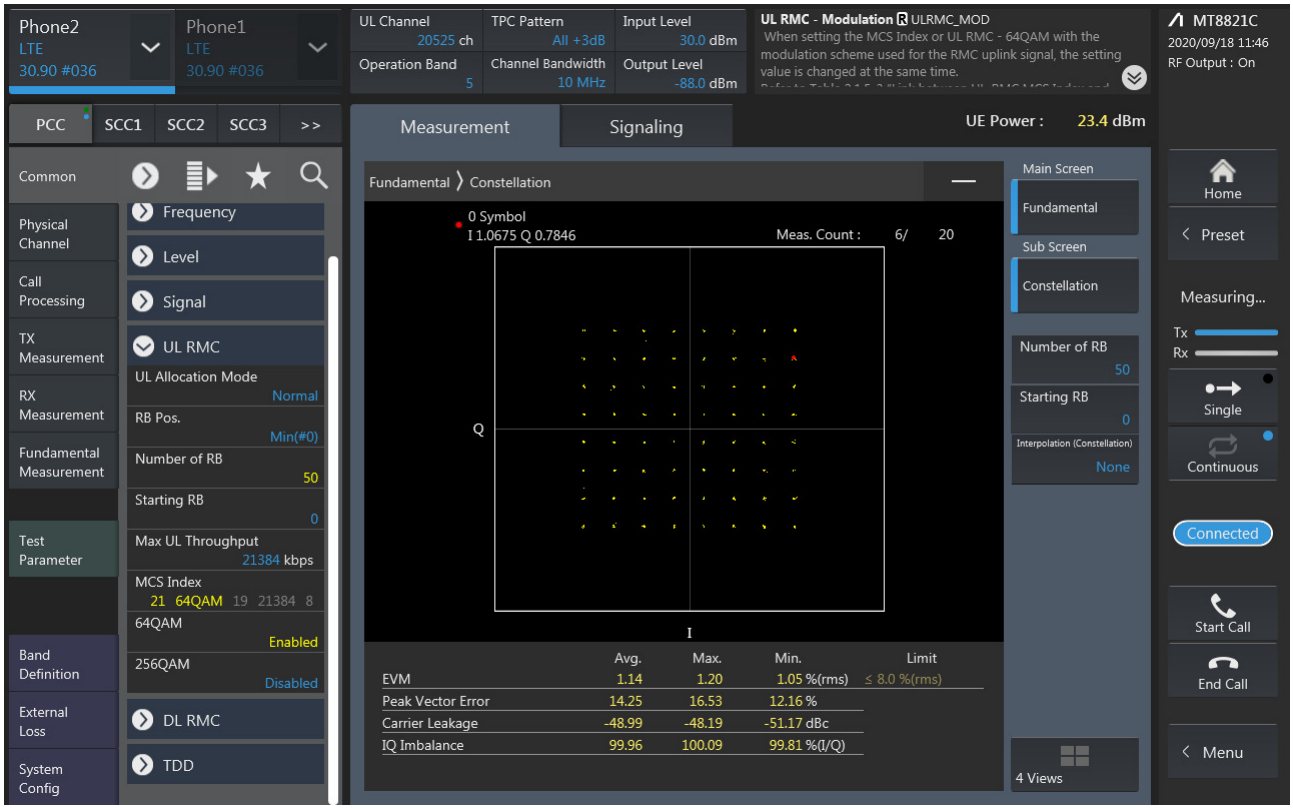
3.3. Test Mode = LTE /TM3 10MHz

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
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.290	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.097	1.305	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.1	1.302	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.296	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.281	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.982	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	3.006	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.976	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.976	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.950	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.920	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.910	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.910	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.930	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.740	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.800	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.680	PASS

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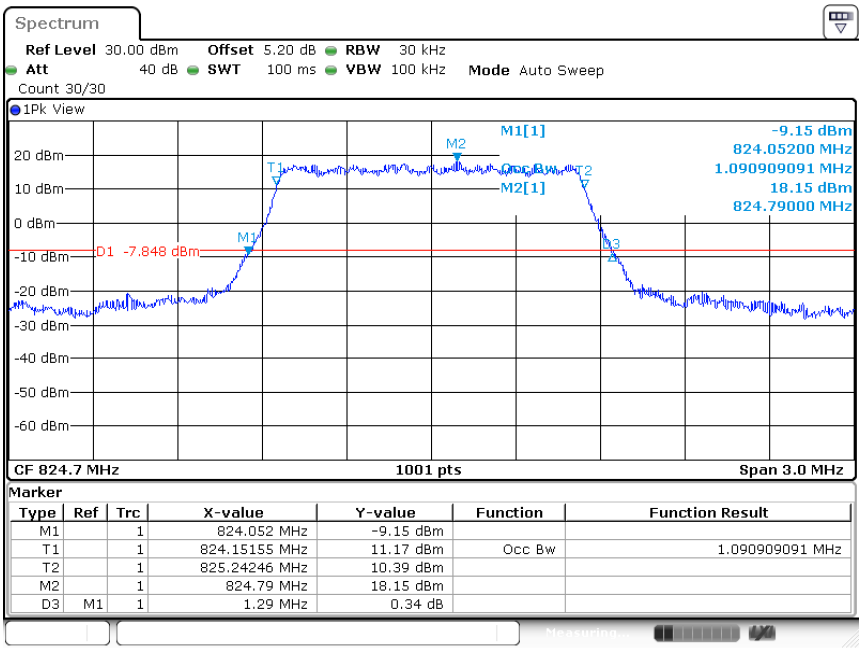
Band5	10MHz	64QAM	20525	50RB#0	8.931	9.680	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.740	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.800	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.740	PASS

4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



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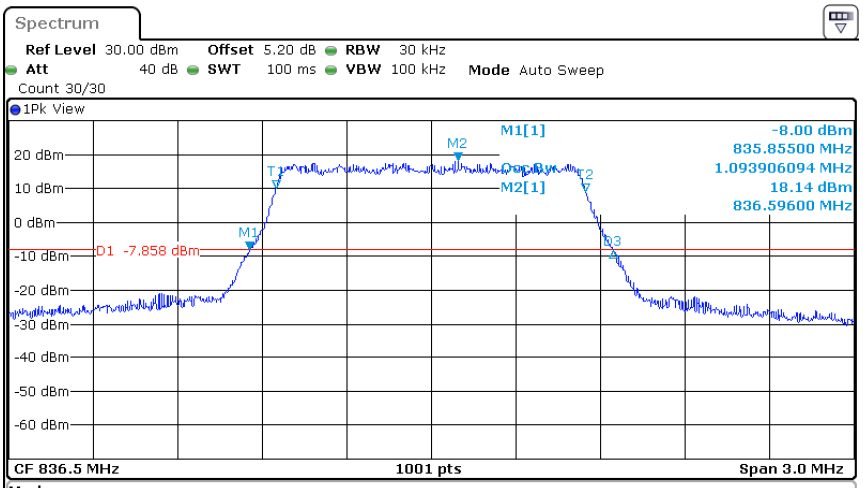
Band5-1.4MHz-QPSK-20525-6RB#0-1.094

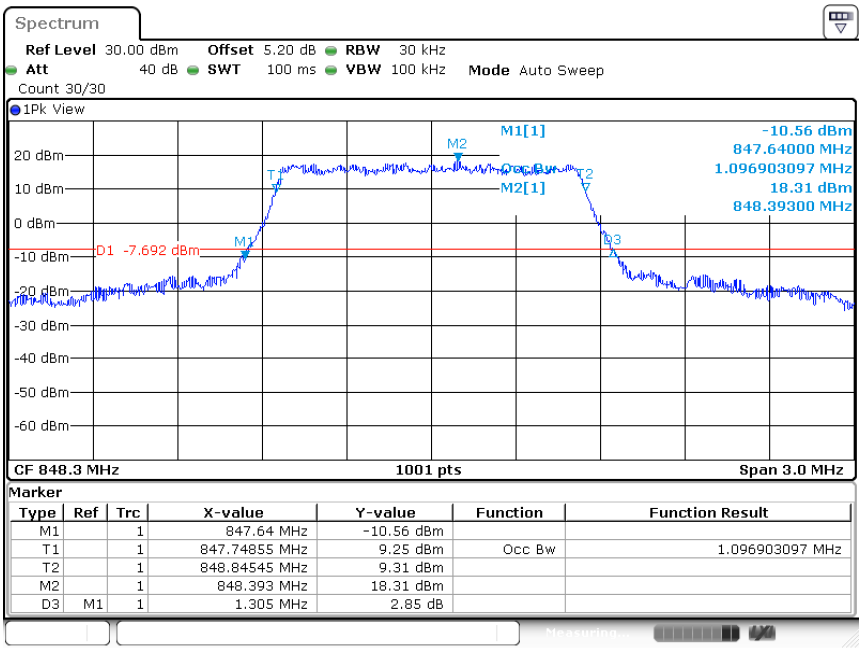


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.855 MHz	-8.00 dBm		
T1		1	835.95155 MHz	10.02 dBm	Occ Bw	1.093906094 MHz
T2		1	837.04545 MHz	9.23 dBm		
M2		1	836.596 MHz	18.14 dBm		
D3	M1	1	1.29 MHz	-0.23 dB		

Date: 3.SEP.2020 22:34:36

Band5-1.4MHz-QPSK-20643-6RB#0-1.097



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	847.64 MHz	-10.56 dBm		
T1		1	847.74855 MHz	9.25 dBm	Occ Bw	1.096903097 MHz
T2		1	848.84545 MHz	9.31 dBm		
M2		1	848.393 MHz	18.31 dBm		
D3	M1	1	1.305 MHz	2.85 dB		

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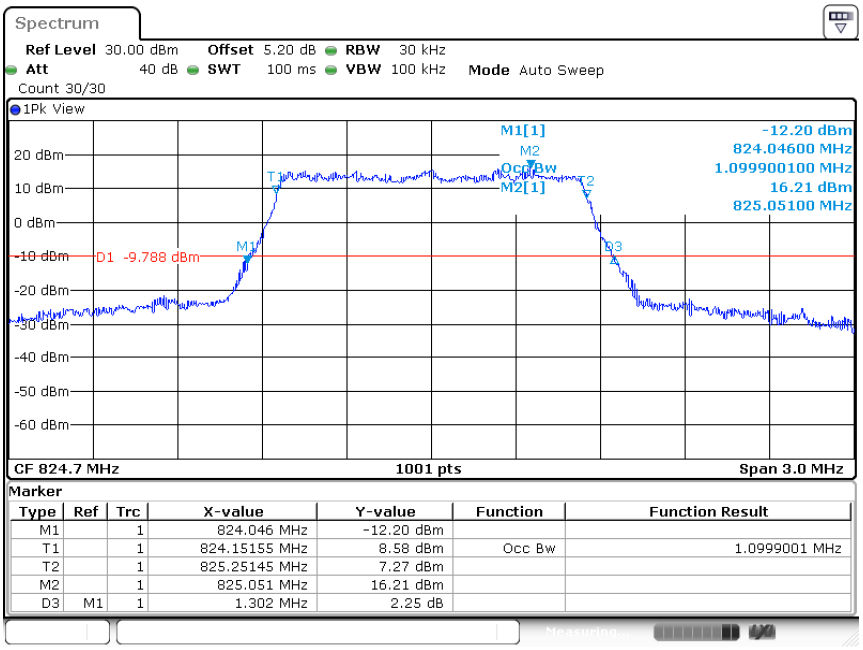
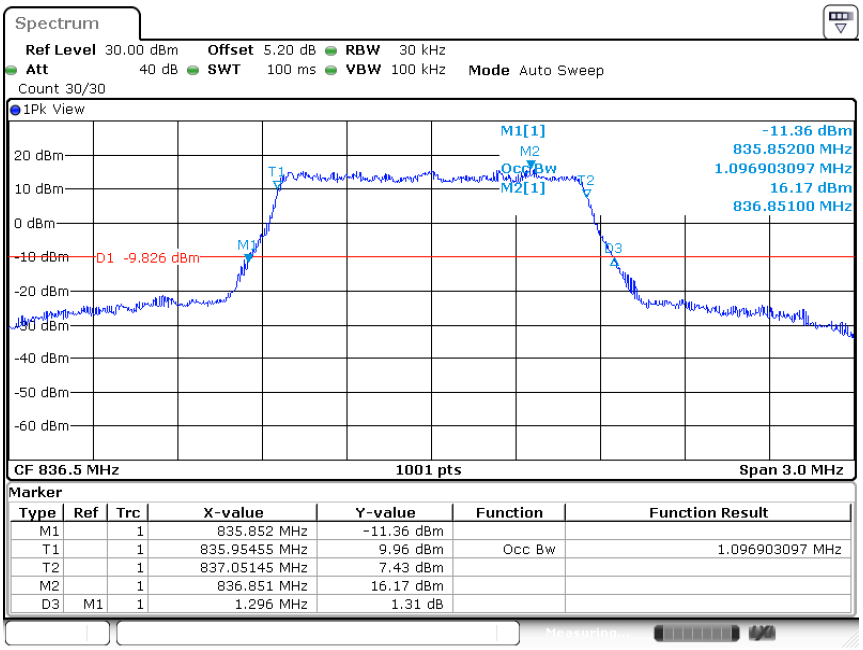


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.046 MHz	-12.20 dBm		
T1		1	824.15155 MHz	8.58 dBm	Occ Bw	1.0999001 MHz
T2		1	825.25145 MHz	7.27 dBm		
M2		1	825.051 MHz	16.21 dBm		
D3	M1	1	1.302 MHz	2.25 dB		

Date: 4.SEP.2020 00:09:36

Band5-1.4MHz-64QAM-20525-6RB#0-1.097



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.852 MHz	-11.36 dBm		
T1		1	835.95455 MHz	9.96 dBm	Occ Bw	1.096903097 MHz
T2		1	837.05145 MHz	7.43 dBm		
M2		1	836.851 MHz	16.17 dBm		
D3	M1	1	1.296 MHz	1.31 dB		

Date: 4.SEP.2020 00:09:49

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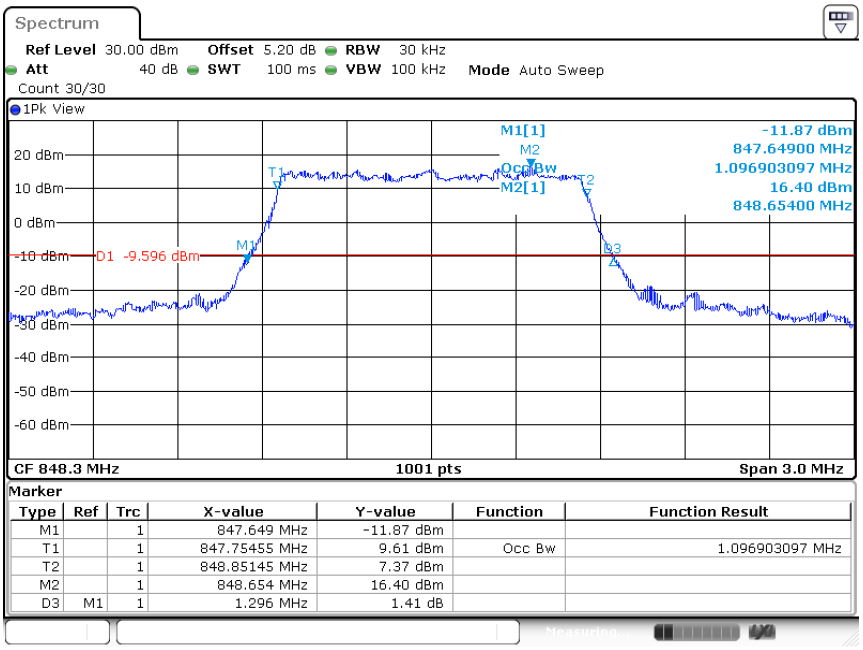
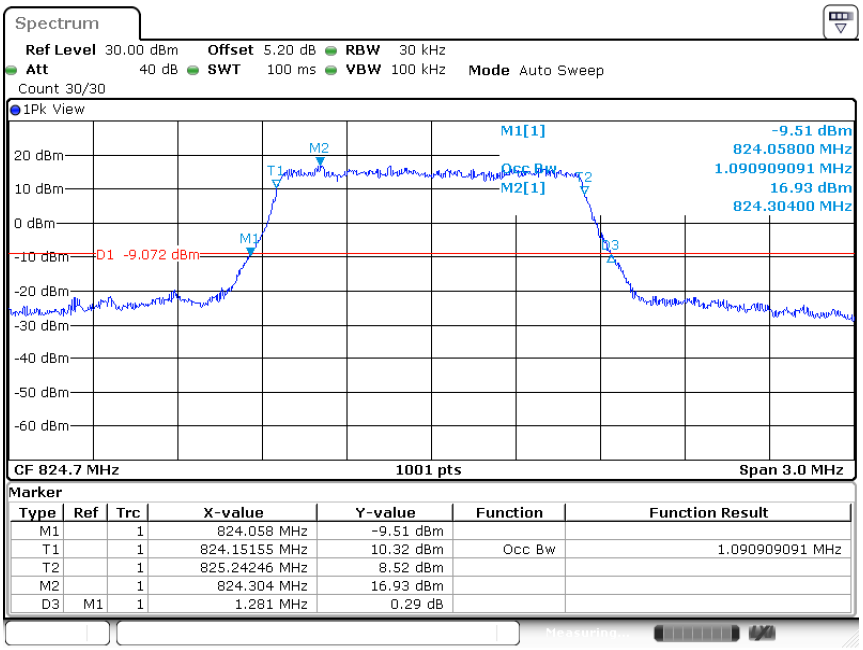


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	847.649 MHz	-11.87 dBm		
T1		1	847.75455 MHz	9.61 dBm	Occ Bw	1.096903097 MHz
T2		1	848.85145 MHz	7.37 dBm		
M2		1	848.654 MHz	16.40 dBm		
D3	M1	1	1.296 MHz	1.41 dB		

Date: 4.SEP.2020 00:10:02

Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.058 MHz	-9.51 dBm		
T1		1	824.15155 MHz	10.32 dBm	Occ Bw	1.090909091 MHz
T2		1	825.24246 MHz	8.52 dBm		
M2		1	824.304 MHz	16.93 dBm		
D3	M1	1	1.281 MHz	0.29 dB		

Date: 3.SEP.2020 22:34:23

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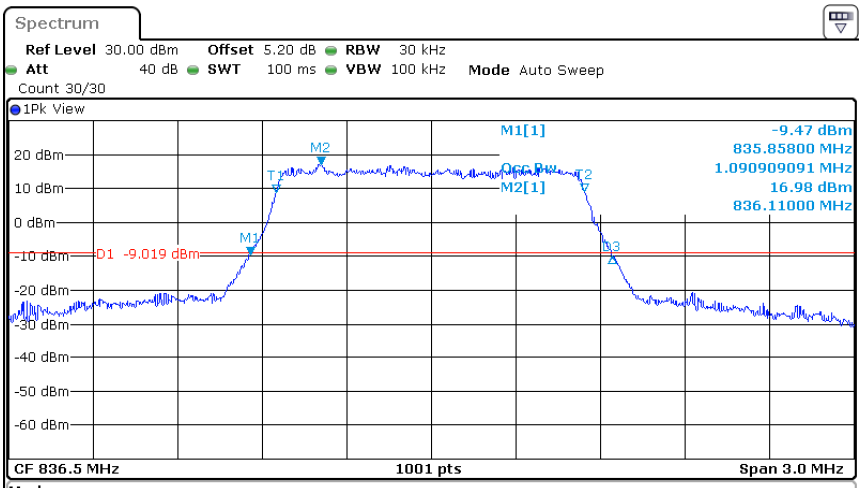
Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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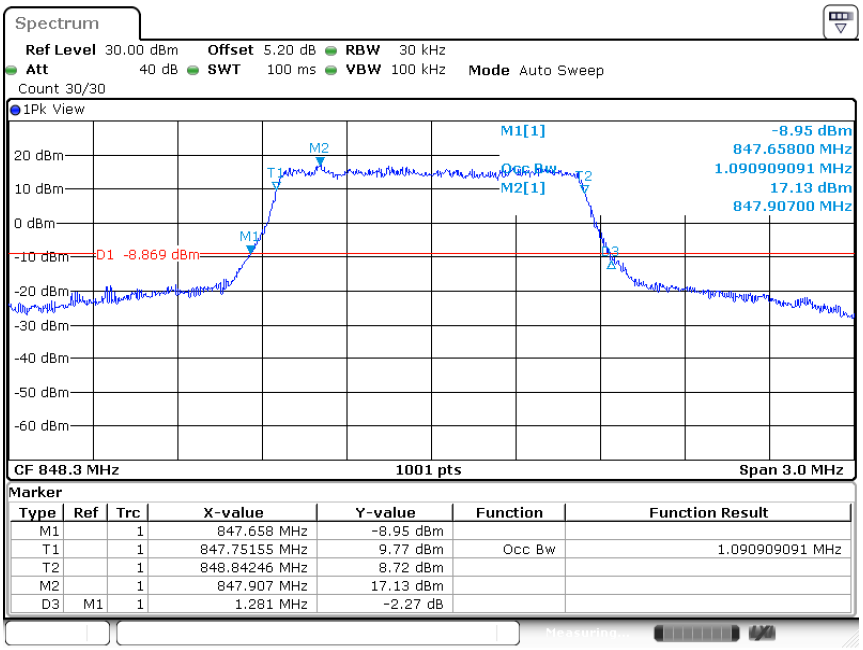
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.858 MHz	-9.47 dBm		
T1		1	835.95155 MHz	8.83 dBm	Occ Bw	1.090909091 MHz
T2		1	837.04246 MHz	9.10 dBm		
M2		1	836.11 MHz	16.98 dBm		
D3	M1	1	1.284 MHz	-0.30 dB		

Date: 3.SEP.2020 22:34:49

Band5-1.4MHz-16QAM-20643-6RB#0-1.091



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	847.658 MHz	-8.95 dBm		
T1		1	847.75155 MHz	9.77 dBm	Occ Bw	1.090909091 MHz
T2		1	848.84246 MHz	8.72 dBm		
M2		1	847.907 MHz	17.13 dBm		
D3	M1	1	1.281 MHz	-2.27 dB		

Date: 3.SEP.2020 22:35:15

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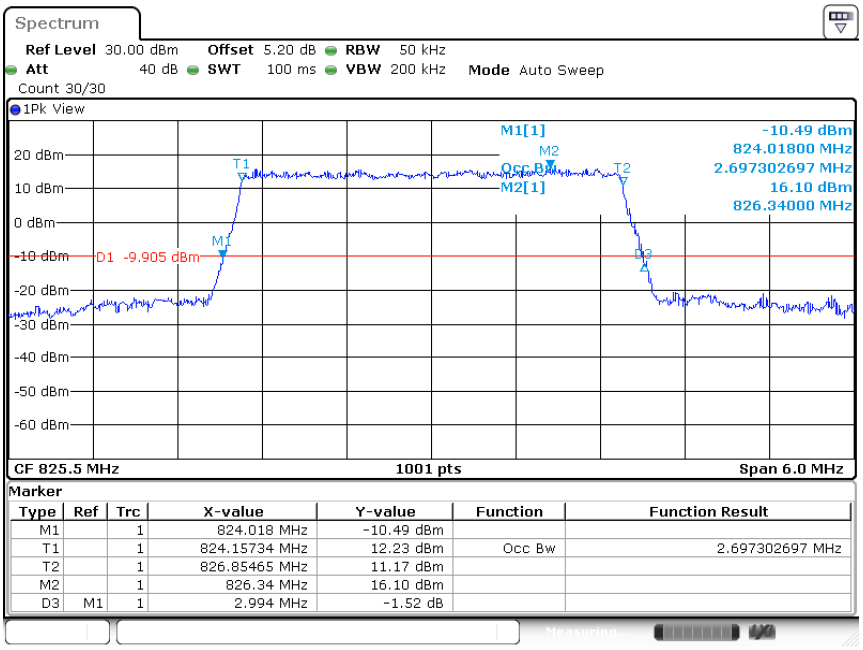
Band5-3MHz-QPSK-20415-15RB#0-2.697



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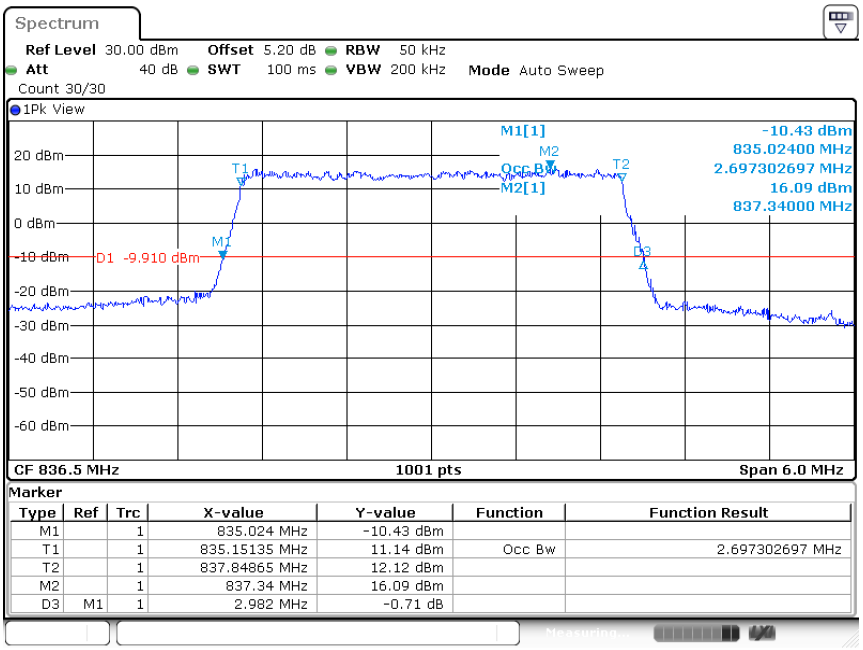
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.018 MHz	-10.49 dBm		
T1		1	824.15734 MHz	12.23 dBm	Occ Bw	2.697302697 MHz
T2		1	826.85465 MHz	11.17 dBm		
M2		1	826.34 MHz	16.10 dBm		
D3	M1	1	2.994 MHz	-1.52 dB		

Date: 3.SEP.2020 22:35:33

Band5-3MHz-QPSK-20525-15RB#0-2.697



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.024 MHz	-10.43 dBm		
T1		1	835.15135 MHz	11.14 dBm	Occ Bw	2.697302697 MHz
T2		1	837.84865 MHz	12.12 dBm		
M2		1	837.34 MHz	16.09 dBm		
D3	M1	1	2.982 MHz	-0.71 dB		

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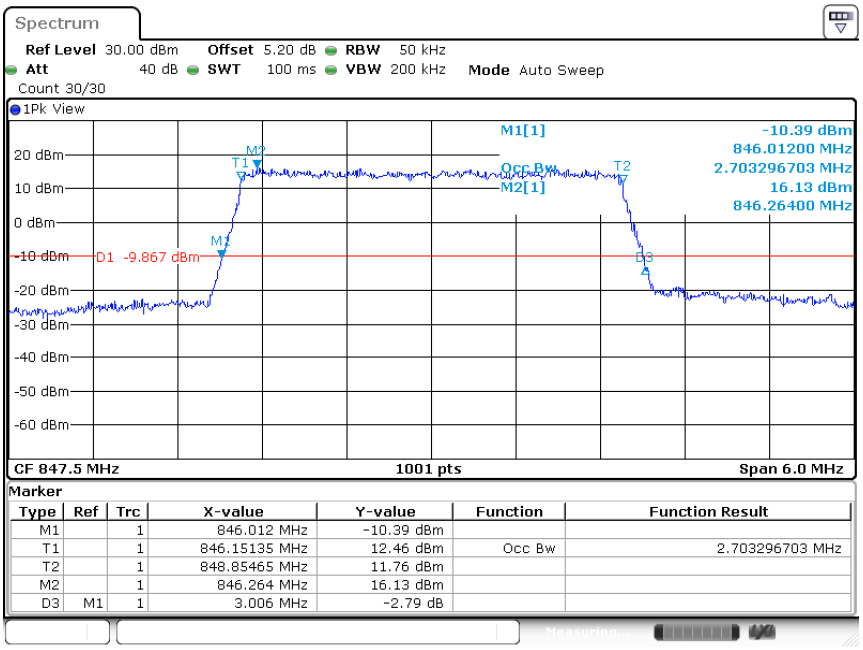
Band5-3MHz-QPSK-20635-15RB#0-2.703

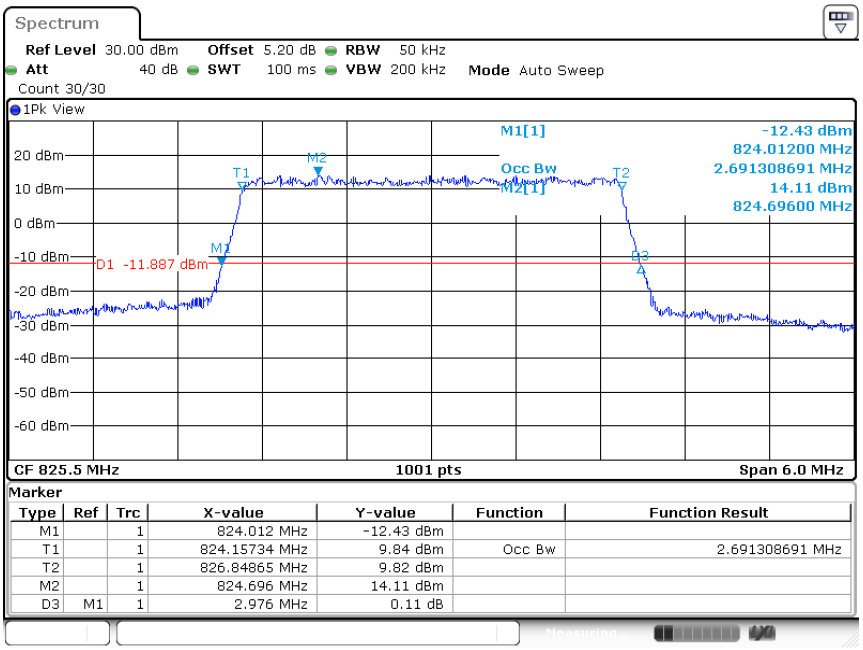


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	846.012 MHz	-10.39 dBm		
T1		1	846.15135 MHz	12.46 dBm	Occ Bw	2.703296703 MHz
T2		1	848.85465 MHz	11.76 dBm		
M2		1	846.264 MHz	16.13 dBm		
D3	M1	1	3.006 MHz	-2.79 dB		

Date: 3.SEP.2020 22:36:25

Band5-3MHz-64QAM-20415-15RB#0-2.691



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.012 MHz	-12.43 dBm		
T1		1	824.15734 MHz	9.84 dBm	Occ Bw	2.691308691 MHz
T2		1	826.84865 MHz	9.82 dBm		
M2		1	824.696 MHz	14.11 dBm		
D3	M1	1	2.976 MHz	0.11 dB		

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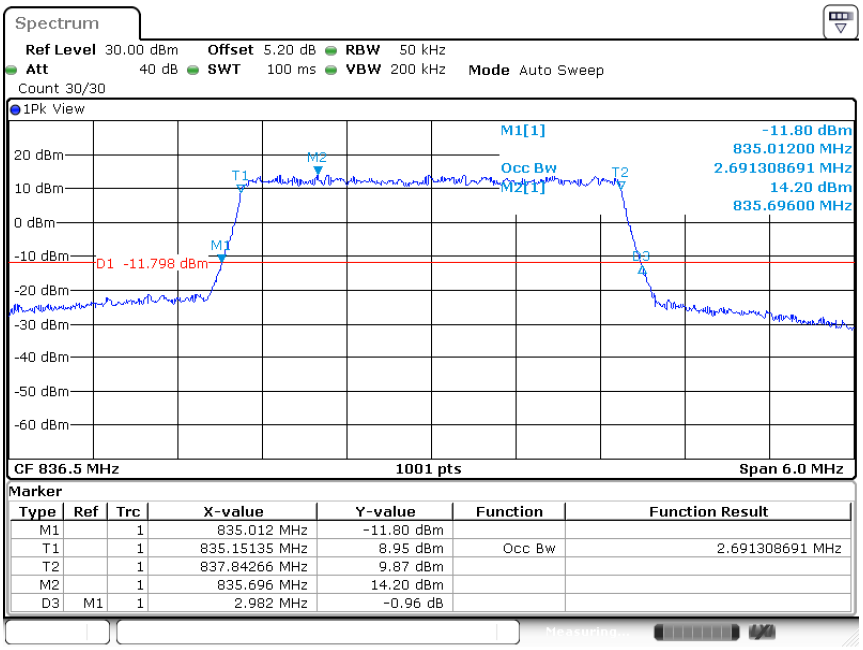
Band5-3MHz-64QAM-20525-15RB#0-2.691



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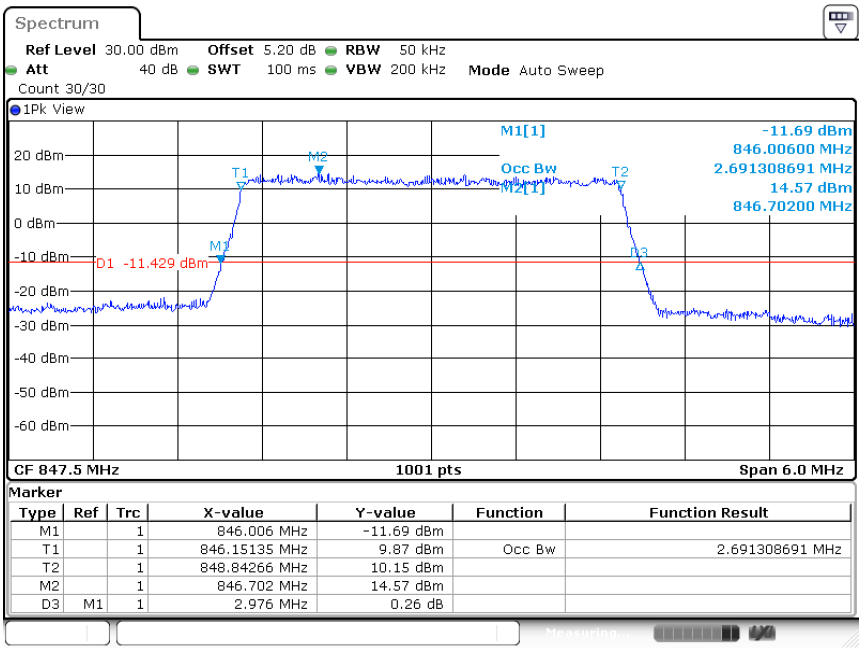
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.012 MHz	-11.80 dBm		
T1		1	835.15135 MHz	8.95 dBm	Occ Bw	2.691308691 MHz
T2		1	837.84266 MHz	9.87 dBm		
M2		1	835.696 MHz	14.20 dBm		
D3	M1	1	2.982 MHz	-0.96 dB		

Date: 4.SEP.2020 00:10:33

Band5-3MHz-64QAM-20635-15RB#0-2.691



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	846.006 MHz	-11.69 dBm		
T1		1	846.15135 MHz	9.87 dBm	Occ Bw	2.691308691 MHz
T2		1	848.84266 MHz	10.15 dBm		
M2		1	846.702 MHz	14.57 dBm		
D3	M1	1	2.976 MHz	0.26 dB		

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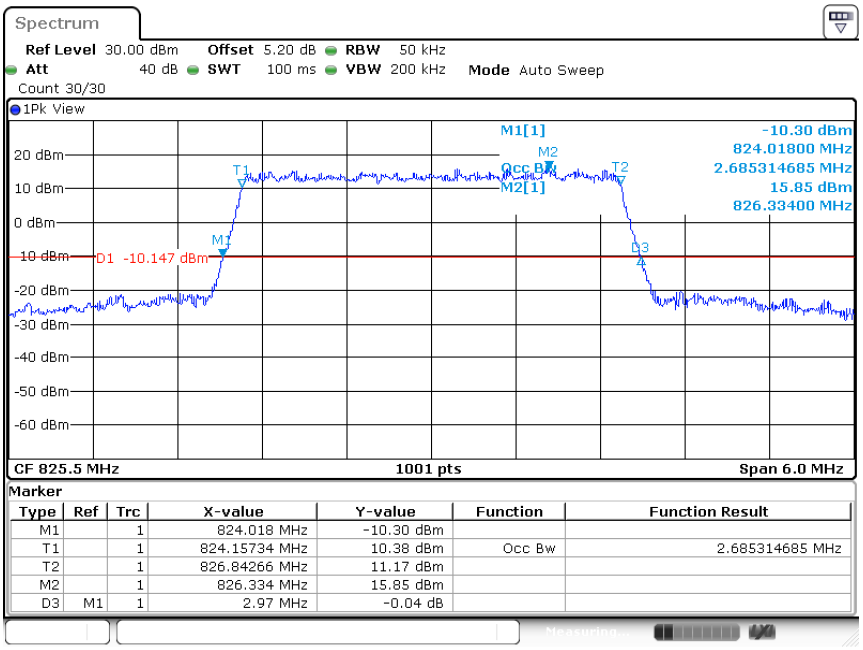
Band5-3MHz-16QAM-20415-15RB#0-2.685



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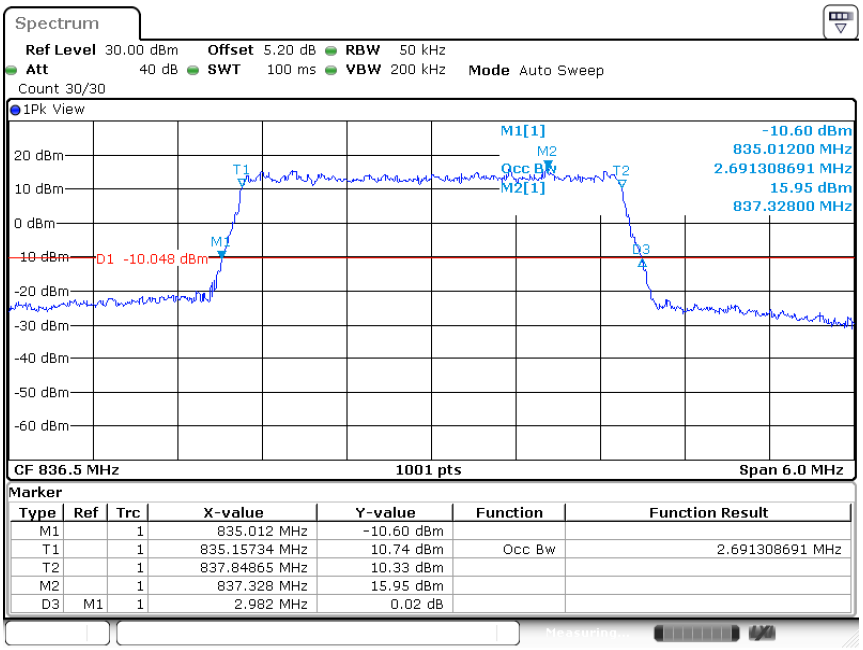
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.018 MHz	-10.30 dBm		
T1		1	824.15734 MHz	10.38 dBm	Occ Bw	2.685314685 MHz
T2		1	826.84266 MHz	11.17 dBm		
M2		1	826.334 MHz	15.85 dBm		
D3	M1	1	2.97 MHz	-0.04 dB		

Date: 3.SEP.2020 22:35:46

Band5-3MHz-16QAM-20525-15RB#0-2.691



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.012 MHz	-10.60 dBm		
T1		1	835.15734 MHz	10.74 dBm	Occ Bw	2.691308691 MHz
T2		1	837.84865 MHz	10.33 dBm		
M2		1	837.328 MHz	15.95 dBm		
D3	M1	1	2.982 MHz	0.02 dB		

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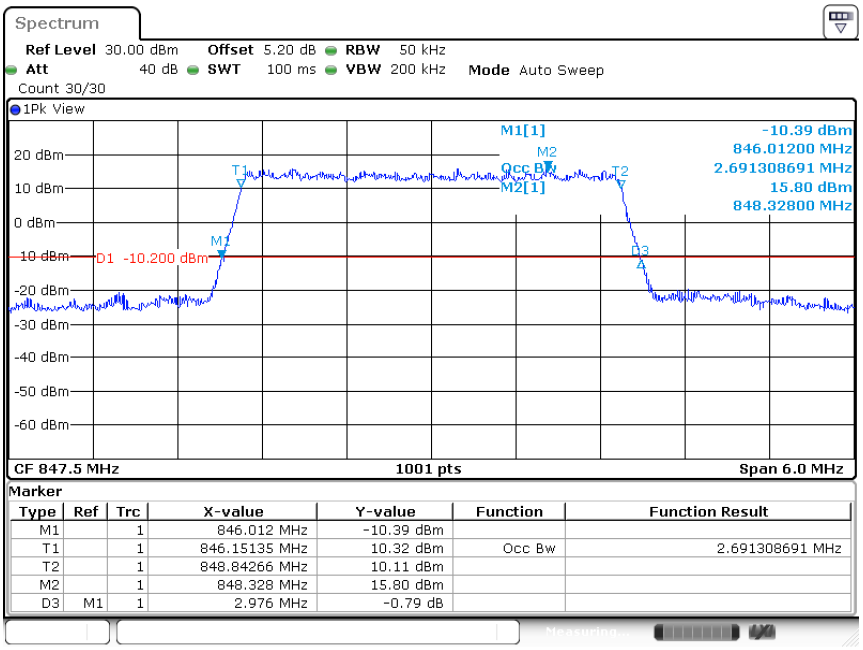
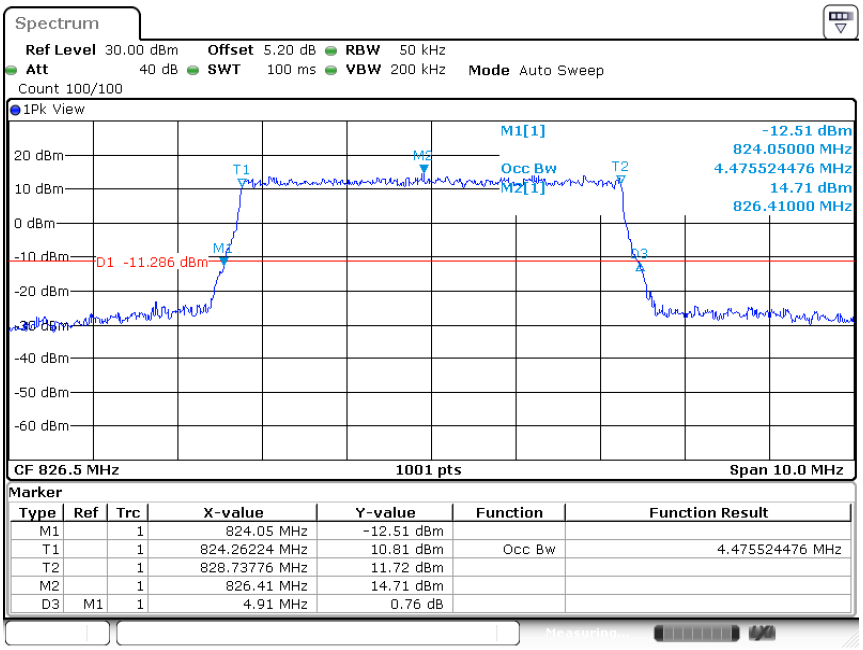


Date: 3.SEP.2020 22:36:38

Band5-5MHz-QPSK-20425-25RB#0-4.476



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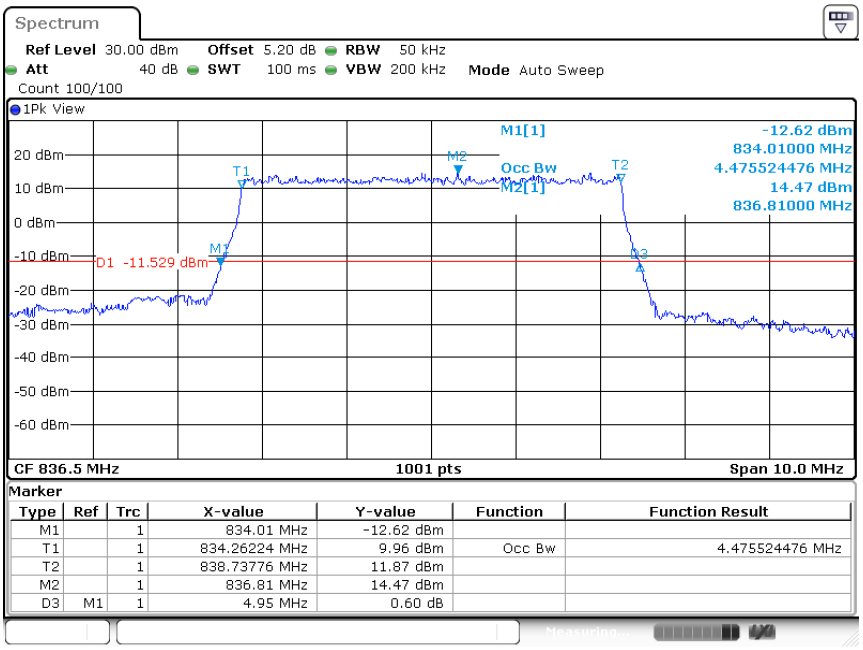
Band5-5MHz-QPSK-20525-25RB#0-4.476



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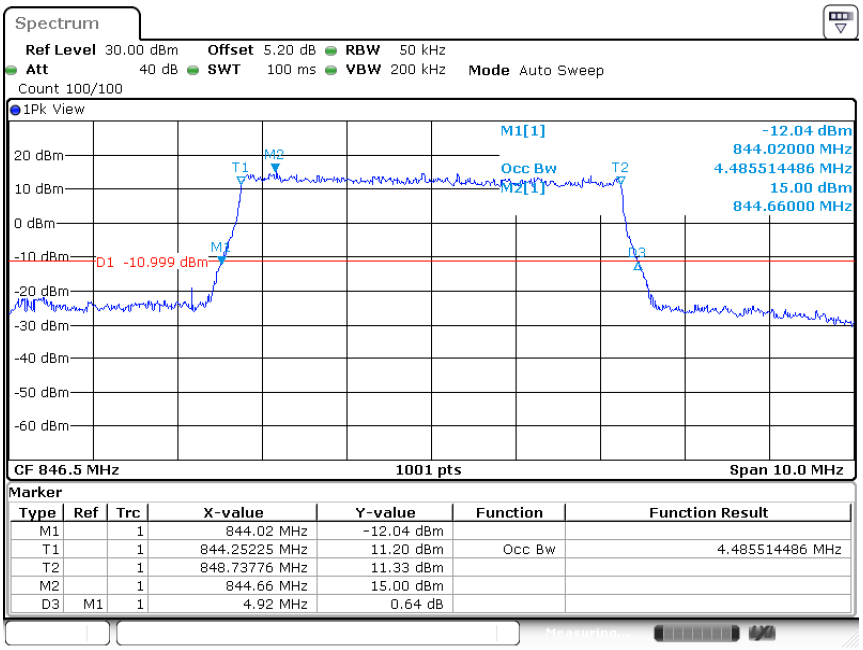
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.01 MHz	-12.62 dBm		
T1		1	834.26224 MHz	9.96 dBm	Occ Bw	4.475524476 MHz
T2		1	838.73776 MHz	11.87 dBm		
M2		1	836.81 MHz	14.47 dBm		
D3	M1	1	4.95 MHz	0.60 dB		

Date: 3.SEP.2020 22:37:42

Band5-5MHz-QPSK-20625-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	844.02 MHz	-12.04 dBm		
T1		1	844.25225 MHz	11.20 dBm	Occ Bw	4.485514486 MHz
T2		1	848.73776 MHz	11.33 dBm		
M2		1	844.66 MHz	15.00 dBm		
D3	M1	1	4.92 MHz	0.64 dB		

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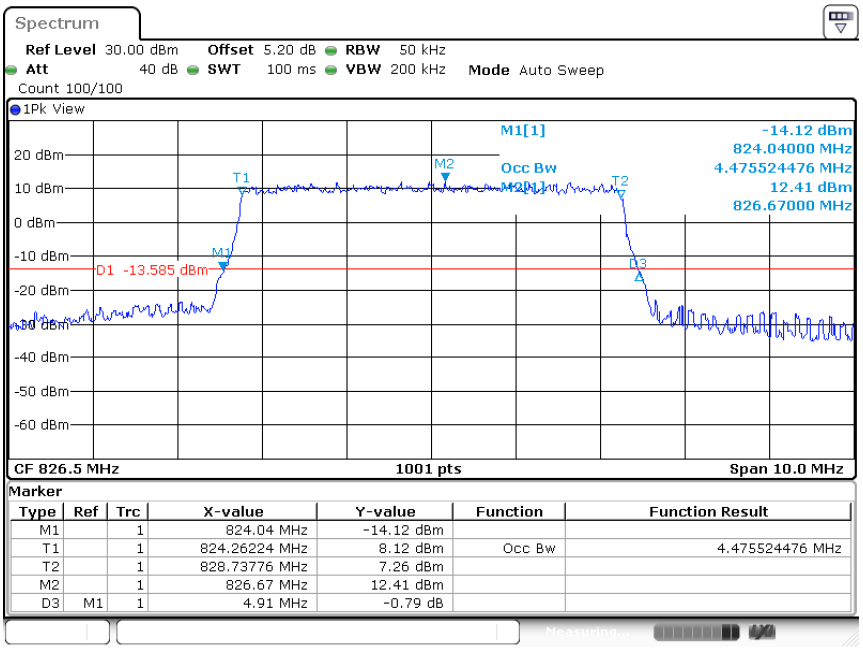
Band5-5MHz-64QAM-20425-25RB#0-4.476

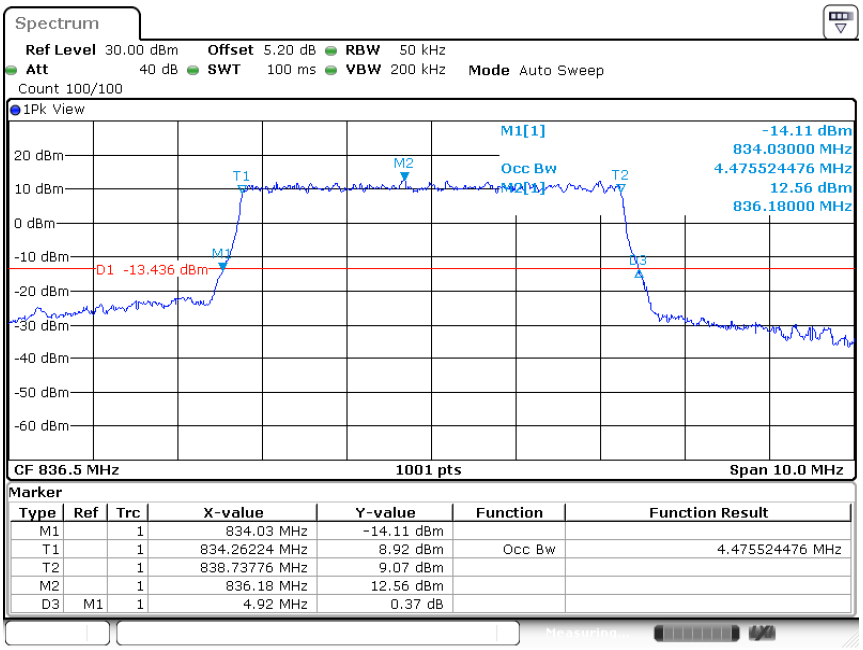


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.04 MHz	-14.12 dBm		
T1		1	824.26224 MHz	8.12 dBm	Occ Bw	4.475524476 MHz
T2		1	828.73776 MHz	7.26 dBm		
M2		1	826.67 MHz	12.41 dBm		
D3	M1	1	4.91 MHz	-0.79 dB		

Date: 4.SEP.2020 00:11:11

Band5-5MHz-64QAM-20525-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.03 MHz	-14.11 dBm		
T1		1	834.26224 MHz	8.92 dBm	Occ Bw	4.475524476 MHz
T2		1	838.73776 MHz	9.07 dBm		
M2		1	836.18 MHz	12.56 dBm		
D3	M1	1	4.92 MHz	0.37 dB		

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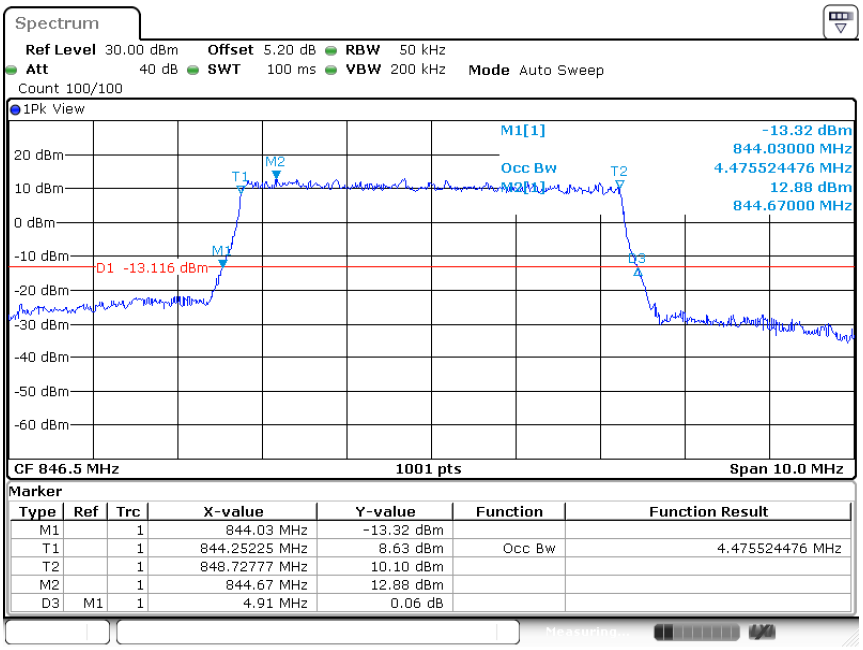
Band5-5MHz-64QAM-20625-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	844.03 MHz	-13.32 dBm		
T1		1	844.25225 MHz	8.63 dBm	Occ Bw	4.475524476 MHz
T2		1	848.72777 MHz	10.10 dBm		
M2		1	844.67 MHz	12.88 dBm		
D3	M1	1	4.91 MHz	0.06 dB		

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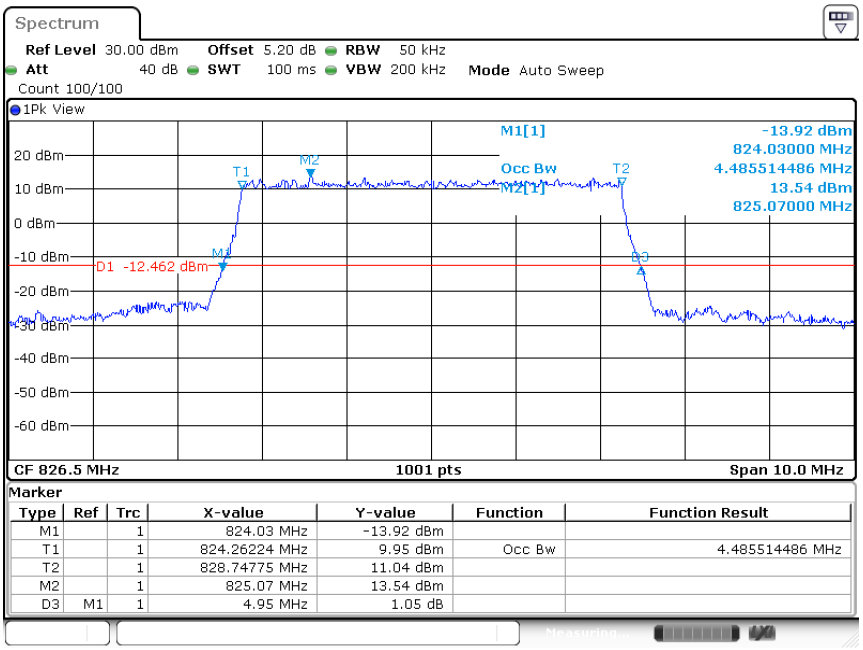
Band5-5MHz-16QAM-20425-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.03 MHz	-13.92 dBm		
T1		1	824.26224 MHz	9.95 dBm	Occ Bw	4.485514486 MHz
T2		1	828.74775 MHz	11.04 dBm		
M2		1	825.07 MHz	13.54 dBm		
D3	M1	1	4.95 MHz	1.05 dB		

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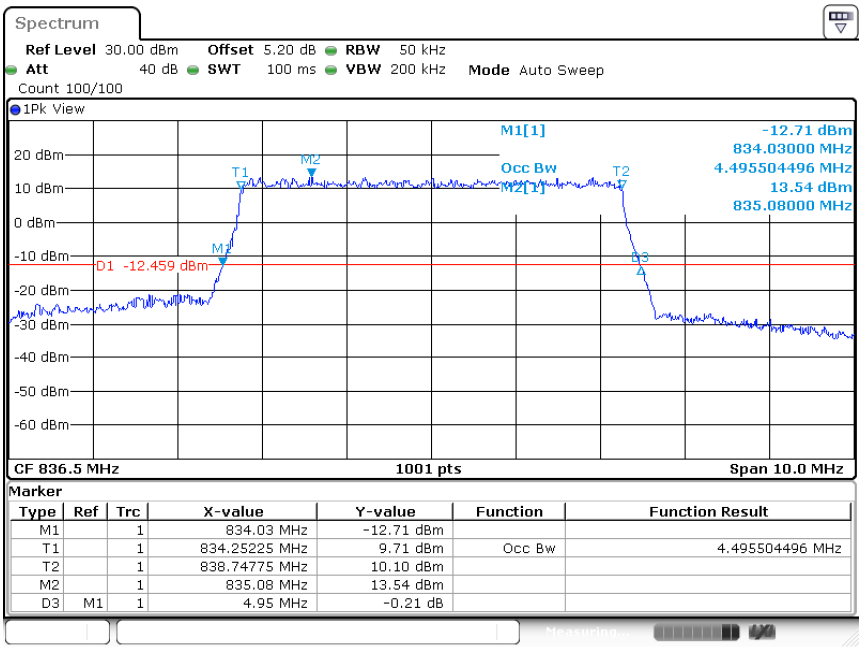
Band5-5MHz-16QAM-20525-25RB#0-4.496

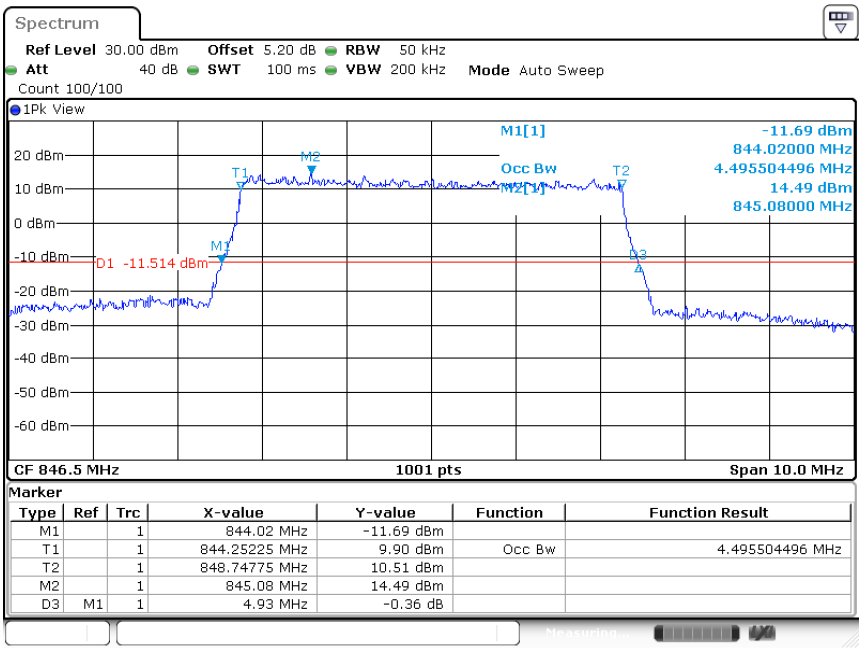


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.03 MHz	-12.71 dBm		
T1		1	834.25225 MHz	9.71 dBm	Occ Bw	4.495504496 MHz
T2		1	838.74775 MHz	10.10 dBm		
M2		1	835.08 MHz	13.54 dBm		
D3	M1	1	4.95 MHz	-0.21 dB		

Date: 3.SEP.2020 22:38:02

Band5-5MHz-16QAM-20625-25RB#0-4.496



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	844.02 MHz	-11.69 dBm		
T1		1	844.25225 MHz	9.90 dBm	Occ Bw	4.495504496 MHz
T2		1	848.74775 MHz	10.51 dBm		
M2		1	845.08 MHz	14.49 dBm		
D3	M1	1	4.93 MHz	-0.36 dB		

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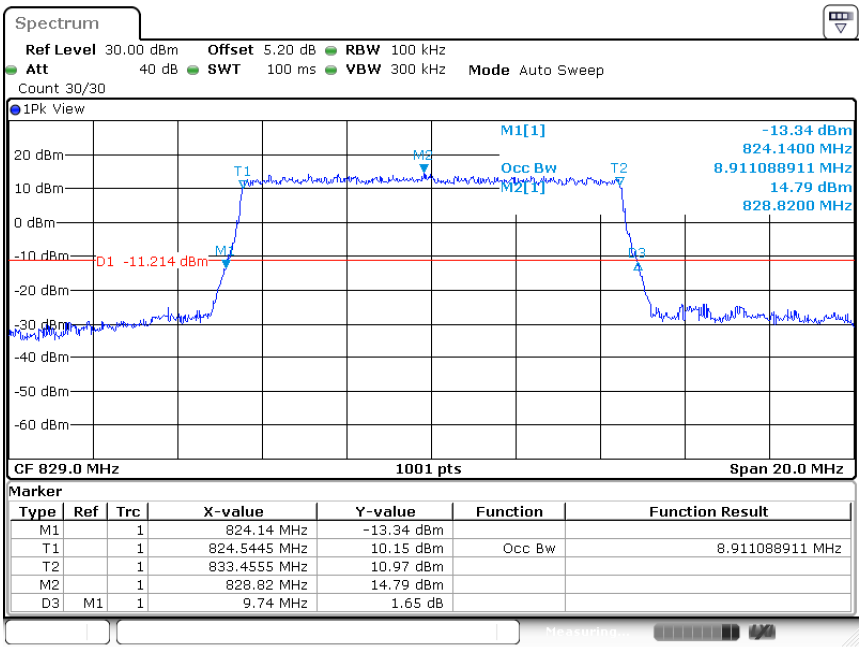
Band5-10MHz-QPSK-20450-50RB#0-8.911

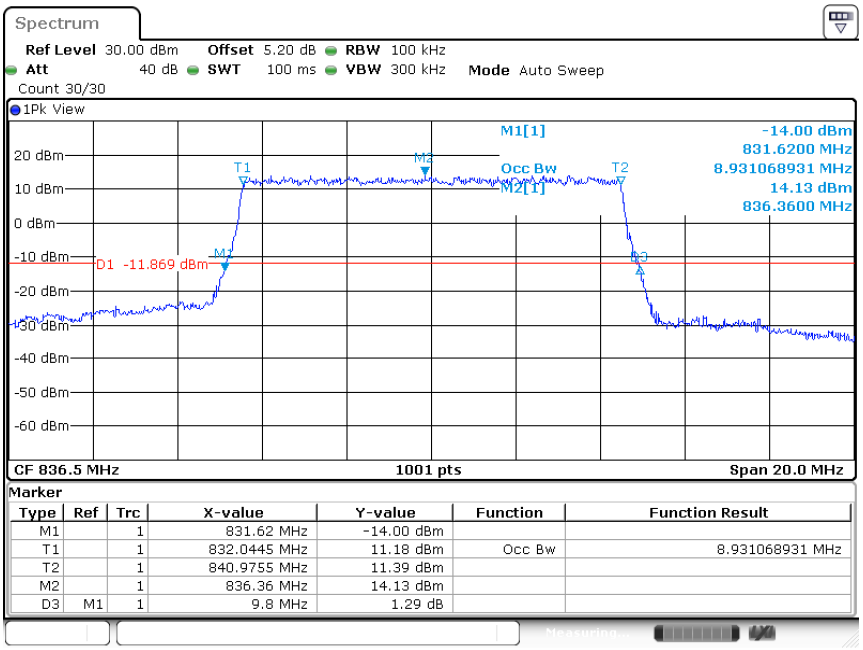


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.14 MHz	-13.34 dBm		
T1		1	824.5445 MHz	10.15 dBm	Occ Bw	8.911088911 MHz
T2		1	833.4555 MHz	10.97 dBm		
M2		1	828.82 MHz	14.79 dBm		
D3	M1	1	9.74 MHz	1.65 dB		

Date: 3.SEP.2020 22:39:00

Band5-10MHz-QPSK-20525-50RB#0-8.931



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	831.62 MHz	-14.00 dBm		
T1		1	832.0445 MHz	11.18 dBm	Occ Bw	8.931068931 MHz
T2		1	840.9755 MHz	11.39 dBm		
M2		1	836.36 MHz	14.13 dBm		
D3	M1	1	9.8 MHz	1.29 dB		

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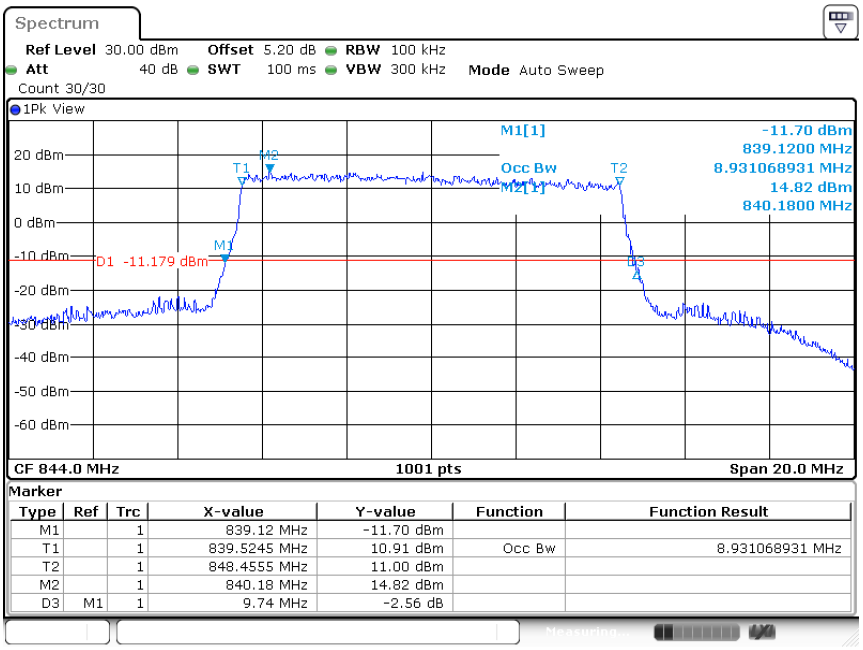
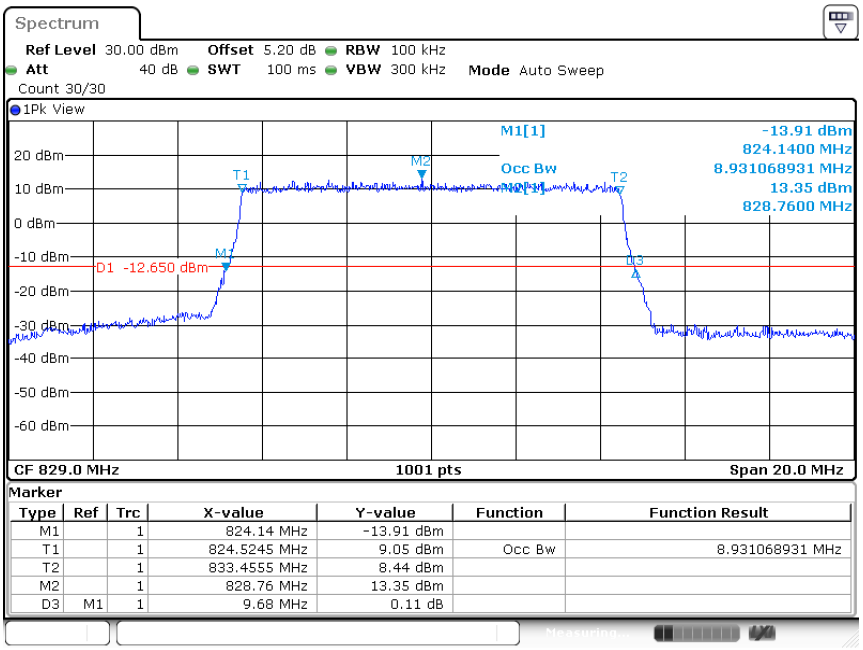
Band5-10MHz-QPSK-20600-50RB#0-8.931



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.12 MHz	-11.70 dBm		
T1		1	839.5245 MHz	10.91 dBm	Occ Bw	8.931068931 MHz
T2		1	848.4555 MHz	11.00 dBm		
M2		1	840.18 MHz	14.82 dBm		
D3	M1	1	9.74 MHz	-2.56 dB		

Date: 3.SEP.2020 22:39:51

Band5-10MHz-64QAM-20450-50RB#0-8.931



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.14 MHz	-13.91 dBm		
T1		1	824.5245 MHz	9.05 dBm	Occ Bw	8.931068931 MHz
T2		1	833.4555 MHz	8.44 dBm		
M2		1	828.76 MHz	13.35 dBm		
D3	M1	1	9.68 MHz	0.11 dB		

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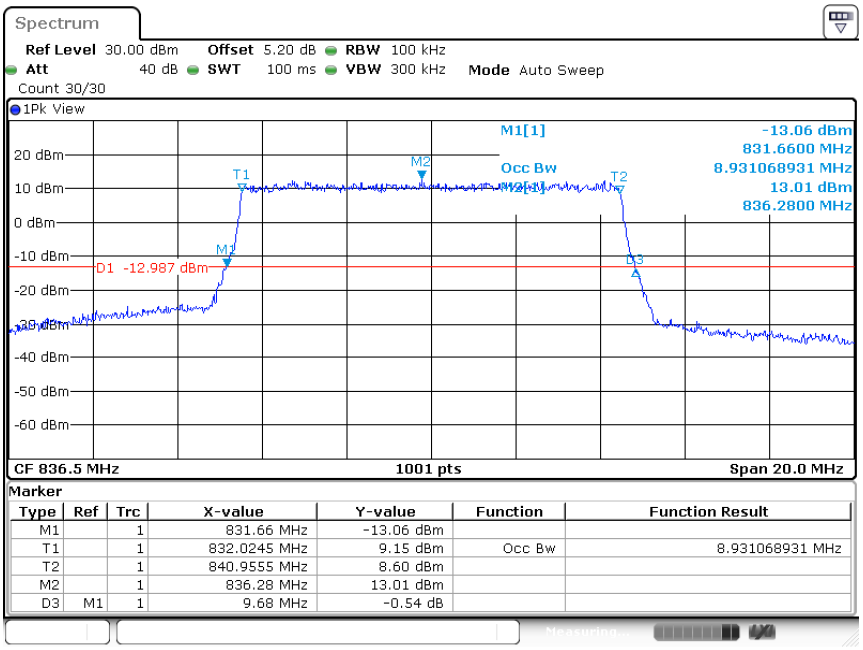
Band5-10MHz-64QAM-20525-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	831.66 MHz	-13.06 dBm		
T1		1	832.0245 MHz	9.15 dBm	Occ Bw	8.931068931 MHz
T2		1	840.9555 MHz	8.60 dBm		
M2		1	836.28 MHz	13.01 dBm		
D3	M1	1	9.68 MHz	-0.54 dB		

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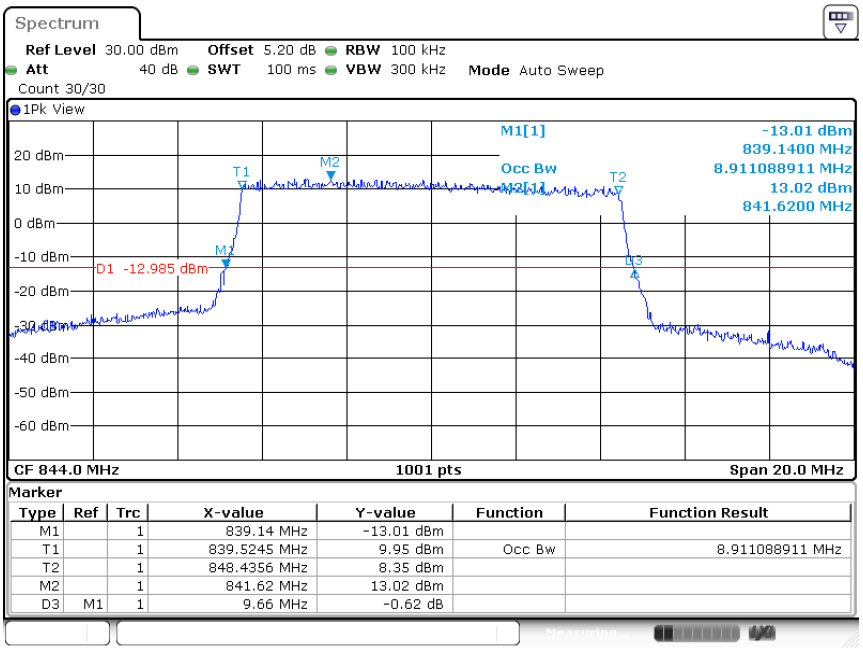
Band5-10MHz-64QAM-20600-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.14 MHz	-13.01 dBm		
T1		1	839.5245 MHz	9.95 dBm	Occ Bw	8.911088911 MHz
T2		1	848.4356 MHz	8.35 dBm		
M2		1	841.62 MHz	13.02 dBm		
D3	M1	1	9.66 MHz	-0.62 dB		

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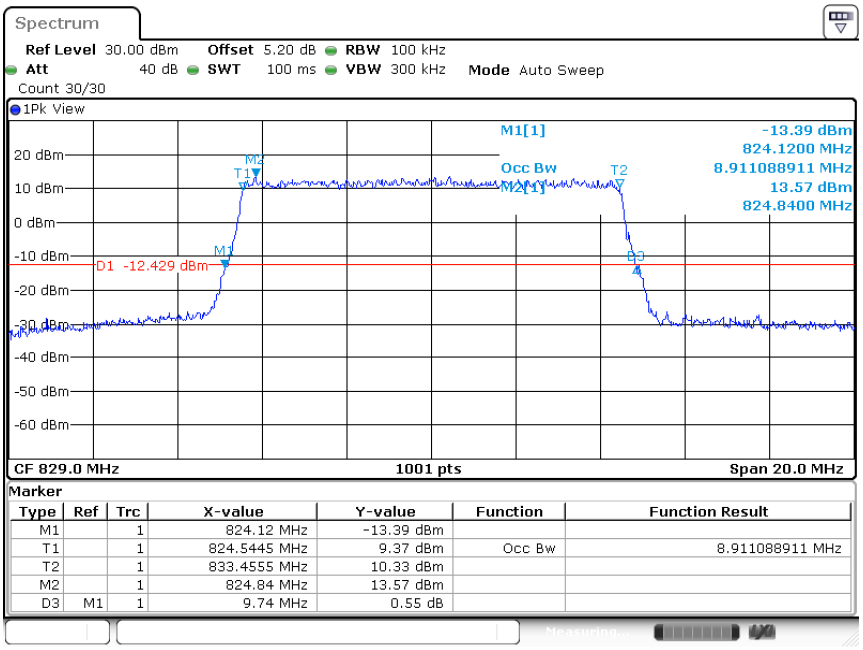

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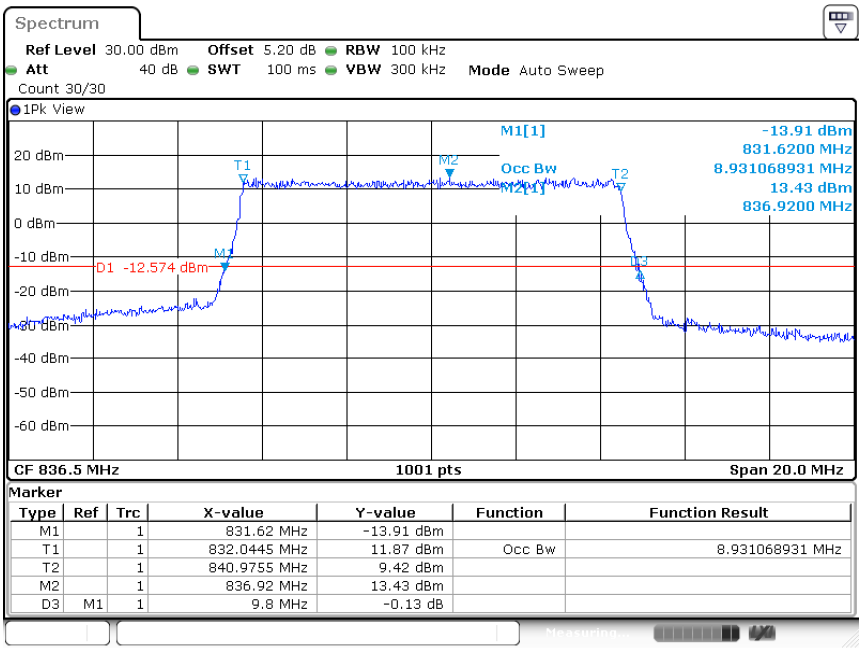
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.12 MHz	-13.39 dBm		
T1		1	824.5445 MHz	9.37 dBm	Occ Bw	8.911088911 MHz
T2		1	833.4555 MHz	10.33 dBm		
M2		1	824.84 MHz	13.57 dBm		
D3	M1	1	9.74 MHz	0.55 dB		

Date: 3.SEP.2020 22:39:12

Band5-10MHz-16QAM-20525-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	831.62 MHz	-13.91 dBm		
T1		1	832.0445 MHz	11.87 dBm	Occ Bw	8.931068931 MHz
T2		1	840.9755 MHz	9.42 dBm		
M2		1	836.92 MHz	13.43 dBm		
D3	M1	1	9.8 MHz	-0.13 dB		

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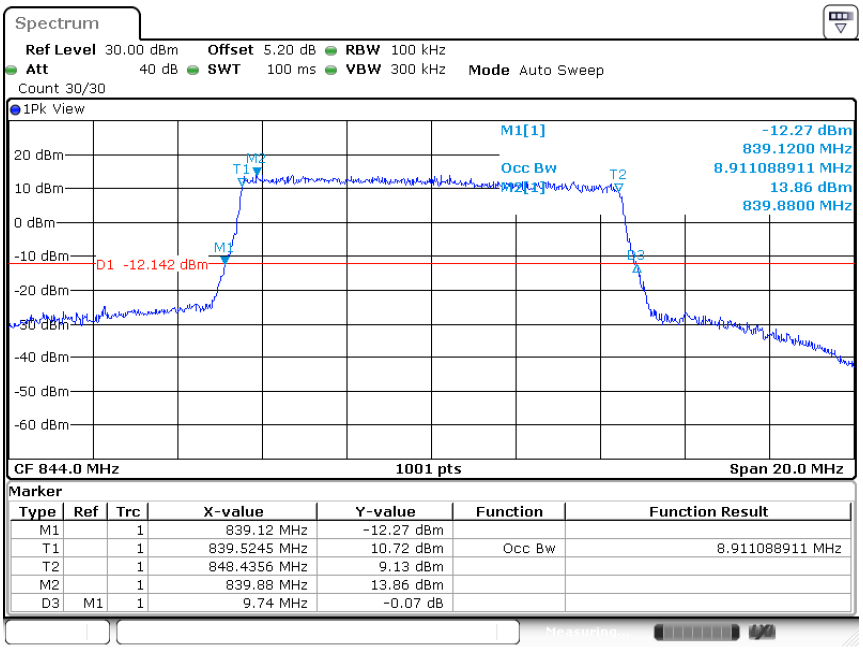

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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	839.12 MHz	-12.27 dBm		
T1		1	839.5245 MHz	10.72 dBm	Occ Bw	8.911088911 MHz
T2		1	848.4356 MHz	9.13 dBm		
M2		1	839.88 MHz	13.86 dBm		
D3	M1	1	9.74 MHz	-0.07 dB		

Date: 3.SEP.2020 22:40:04

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-22.04	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-27.98	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-19.75	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-24.62	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	-24.89	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	-29.09	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	-22.57	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	-29.68	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-22.52	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-27.92	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-20.54	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-26.58	PASS
Band5	3MHz	QPSK	20415	1RB#0	-21.29	PASS
Band5	3MHz	QPSK	20415	15RB#0	-28.87	PASS
Band5	3MHz	QPSK	20635	1RB#14	-18.27	PASS
Band5	3MHz	QPSK	20635	15RB#0	-27.49	PASS
Band5	3MHz	64QAM	20415	1RB#0	-23.55	PASS
Band5	3MHz	64QAM	20415	15RB#0	-30.20	PASS
Band5	3MHz	64QAM	20635	1RB#14	-21.85	PASS
Band5	3MHz	64QAM	20635	15RB#0	-30.66	PASS
Band5	3MHz	16QAM	20415	1RB#0	-21.25	PASS
Band5	3MHz	16QAM	20415	15RB#0	-29.38	PASS
Band5	3MHz	16QAM	20635	1RB#14	-19.41	PASS
Band5	3MHz	16QAM	20635	15RB#0	-29.27	PASS
Band5	5MHz	QPSK	20425	1RB#0	-22.11	PASS
Band5	5MHz	QPSK	20425	25RB#0	-29.77	PASS
Band5	5MHz	QPSK	20625	1RB#24	-21.74	PASS
Band5	5MHz	QPSK	20625	25RB#0	-29.52	PASS
Band5	5MHz	64QAM	20425	1RB#0	-24.22	PASS
Band5	5MHz	64QAM	20425	25RB#0	-30.32	PASS
Band5	5MHz	64QAM	20625	1RB#24	-22.93	PASS
Band5	5MHz	64QAM	20625	25RB#0	-31.71	PASS

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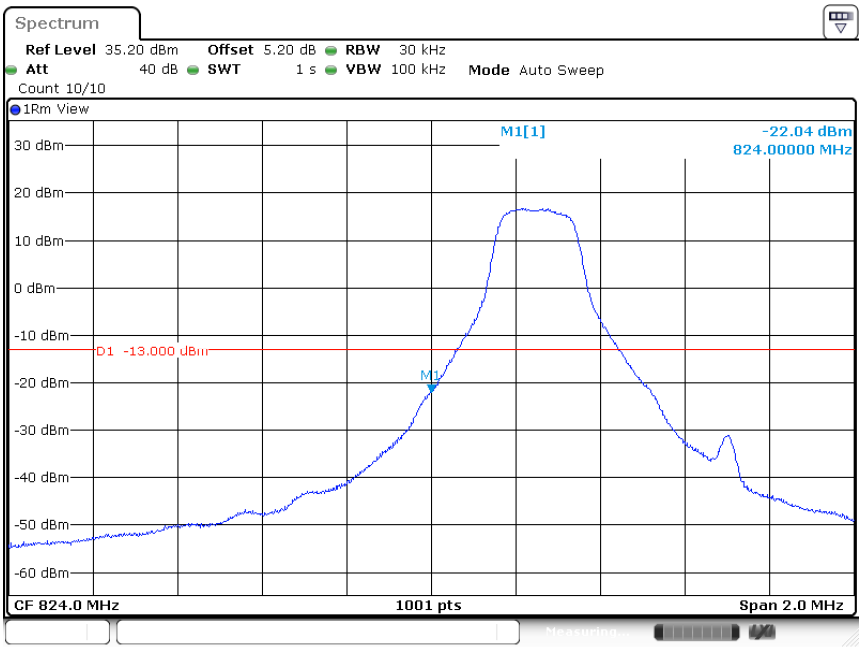
Band5	5MHz	16QAM	20425	1RB#0	-22.29	PASS
Band5	5MHz	16QAM	20425	25RB#0	-29.72	PASS
Band5	5MHz	16QAM	20625	1RB#24	-21.48	PASS
Band5	5MHz	16QAM	20625	25RB#0	-30.26	PASS
Band5	10MHz	QPSK	20450	1RB#0	-32.54	PASS
Band5	10MHz	QPSK	20450	50RB#0	-33.20	PASS
Band5	10MHz	QPSK	20600	1RB#49	-32.05	PASS
Band5	10MHz	QPSK	20600	50RB#0	-33.56	PASS
Band5	10MHz	64QAM	20450	1RB#0	-33.75	PASS
Band5	10MHz	64QAM	20450	50RB#0	-33.27	PASS
Band5	10MHz	64QAM	20600	1RB#49	-33.81	PASS
Band5	10MHz	64QAM	20600	50RB#0	-35.86	PASS
Band5	10MHz	16QAM	20450	1RB#0	-31.94	PASS
Band5	10MHz	16QAM	20450	50RB#0	-33.02	PASS
Band5	10MHz	16QAM	20600	1RB#49	-33.08	PASS
Band5	10MHz	16QAM	20600	50RB#0	-34.77	PASS

5.2. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



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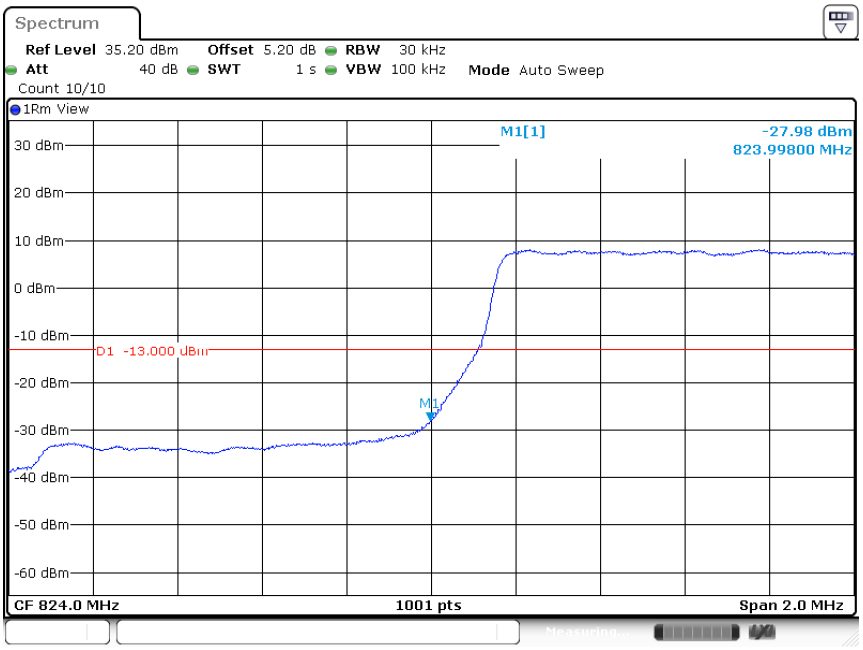

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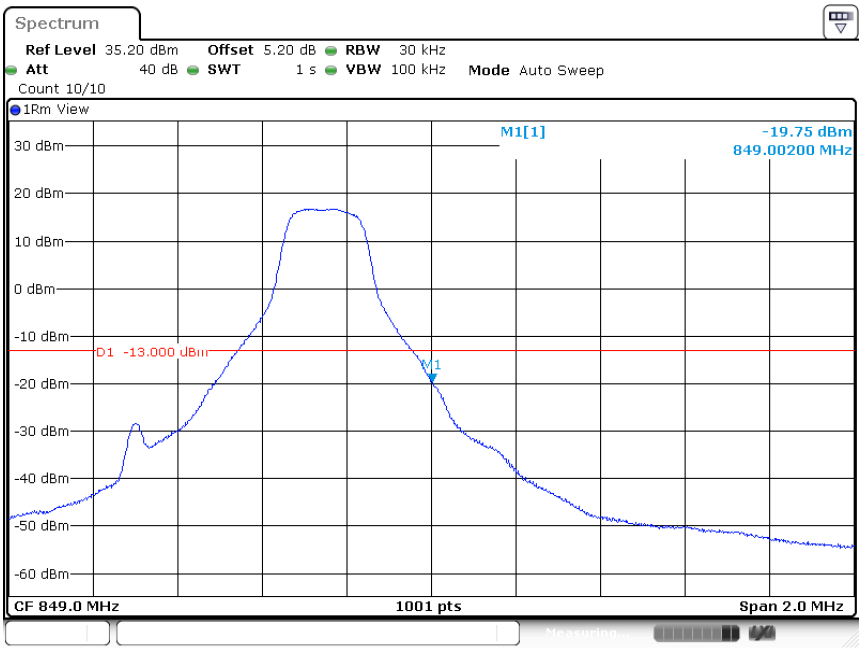
Band5-1.4MHz-QPSK-20643-1RB#5



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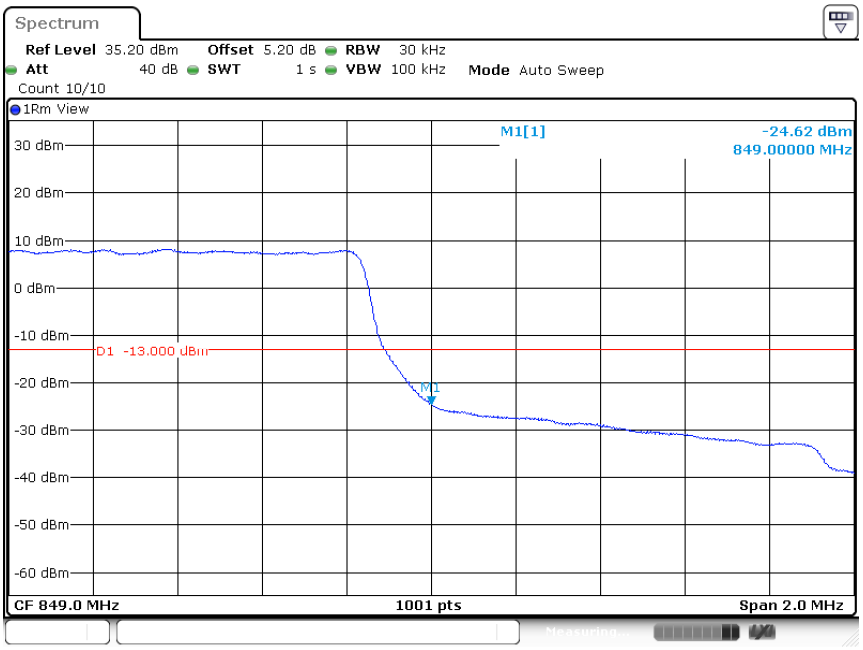

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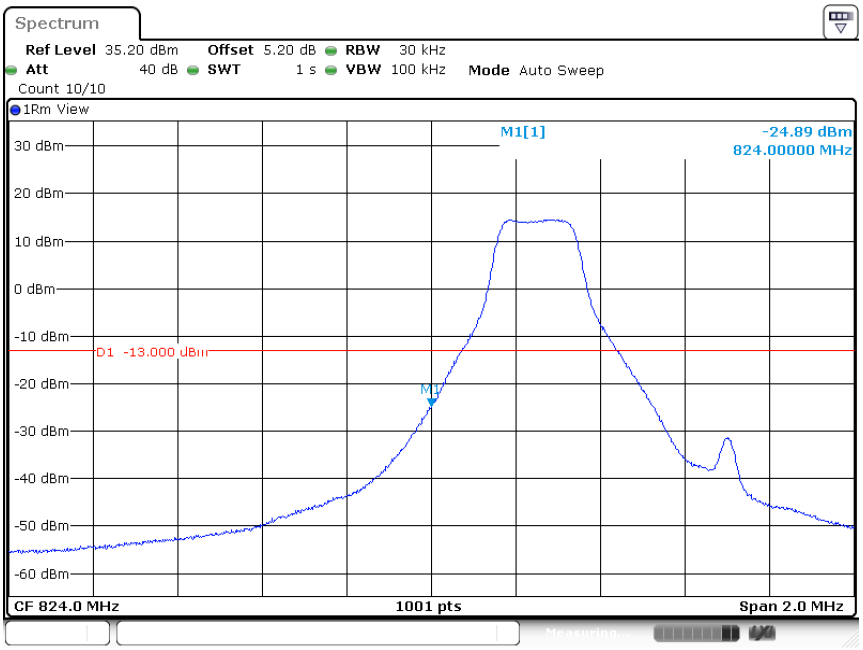
Band5-1.4MHz-64QAM-20407-1RB#0



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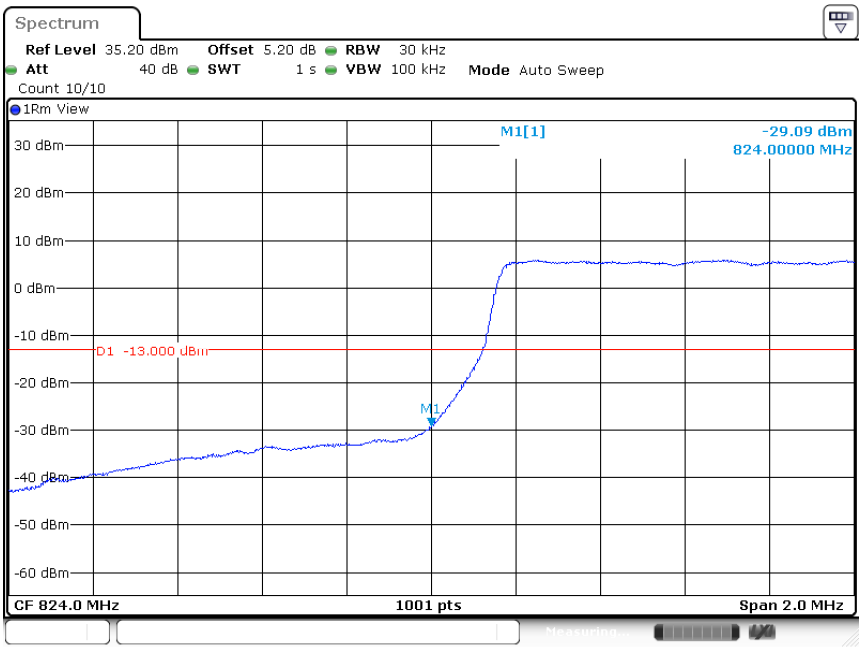

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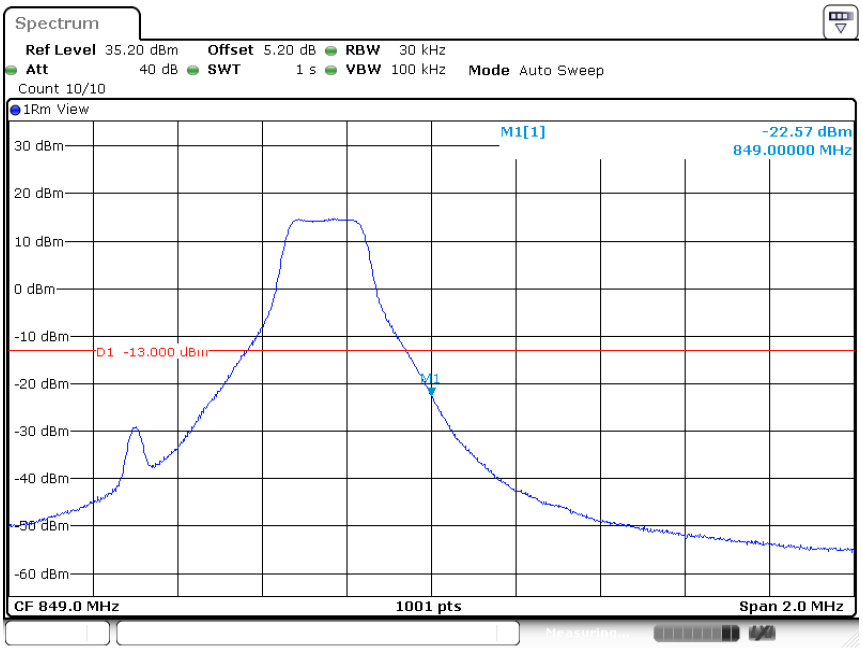

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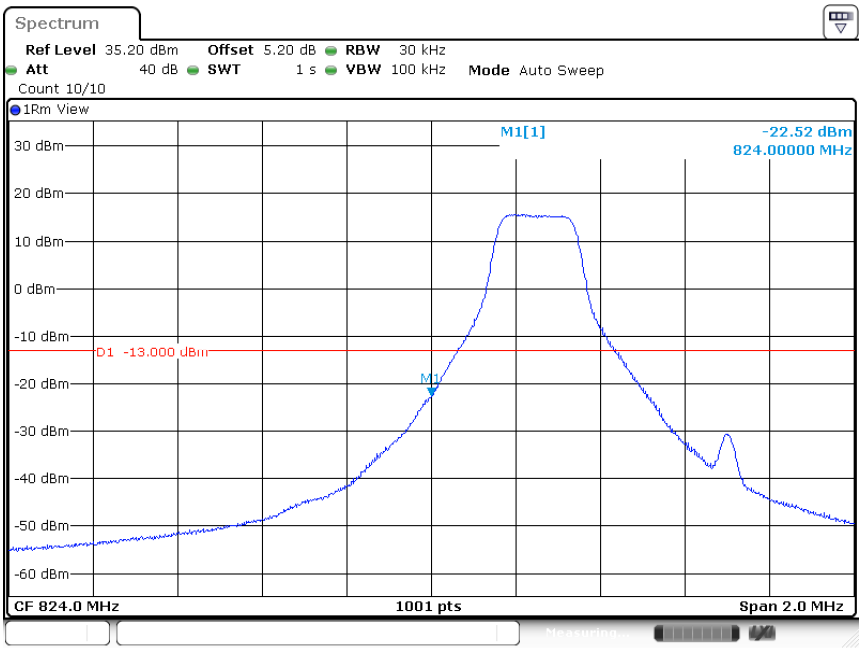

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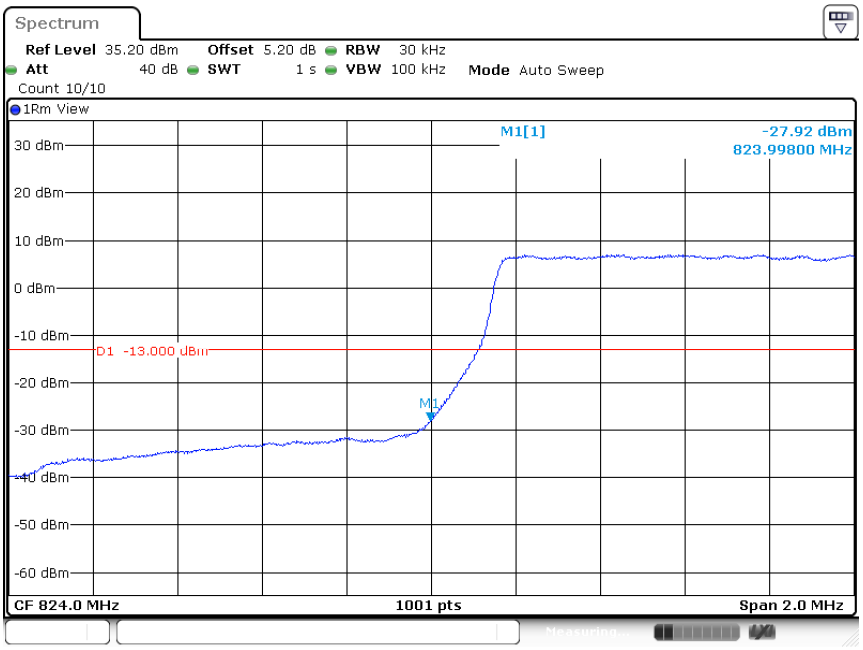

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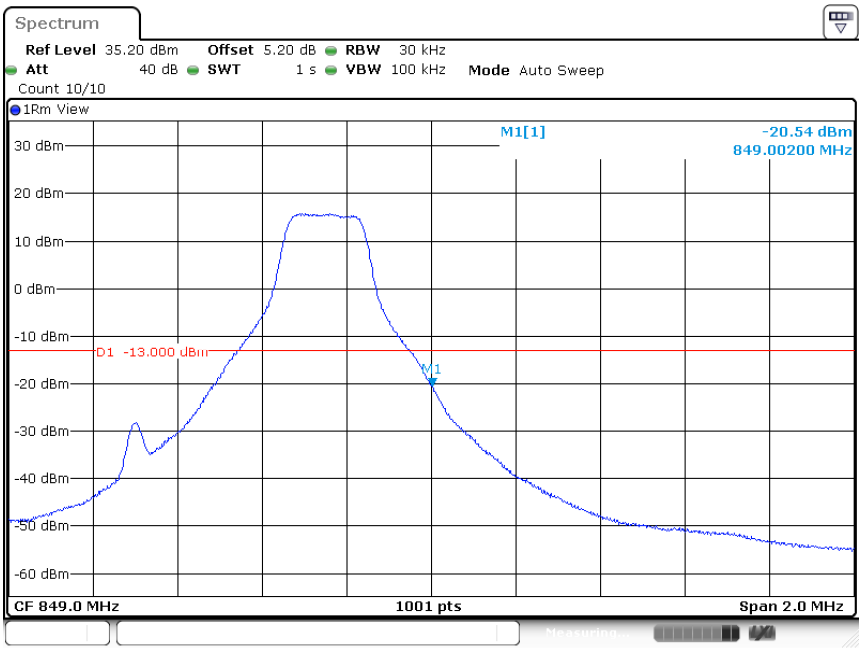

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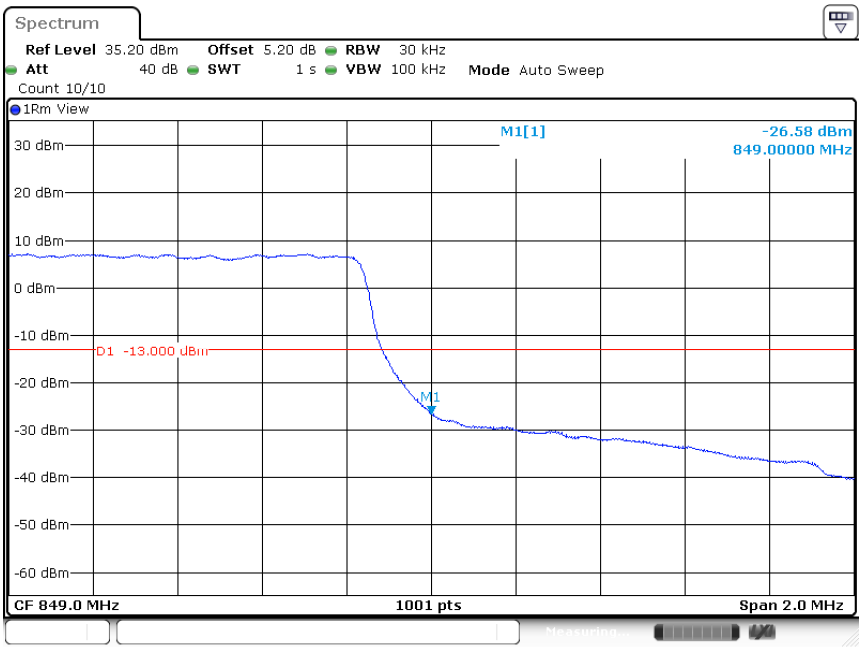

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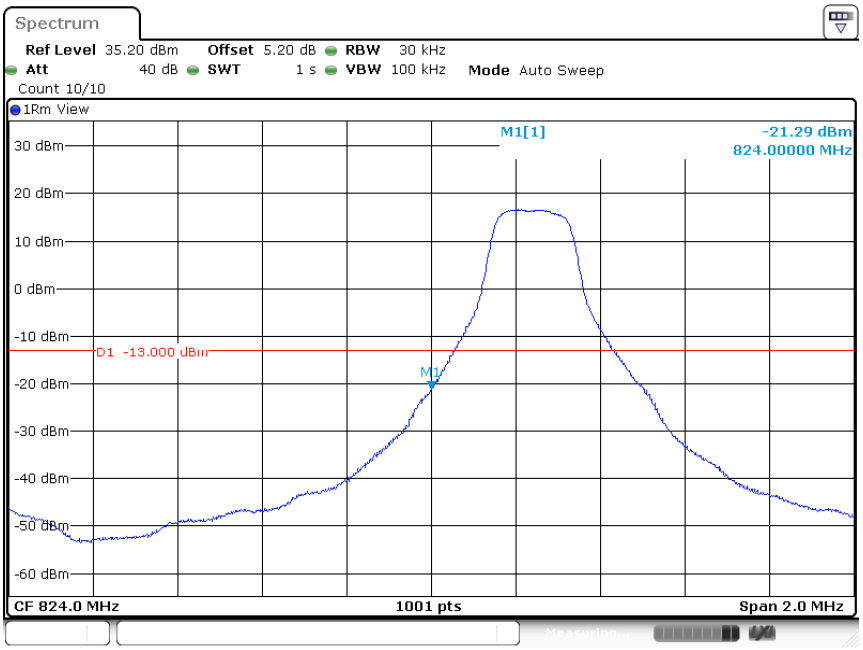

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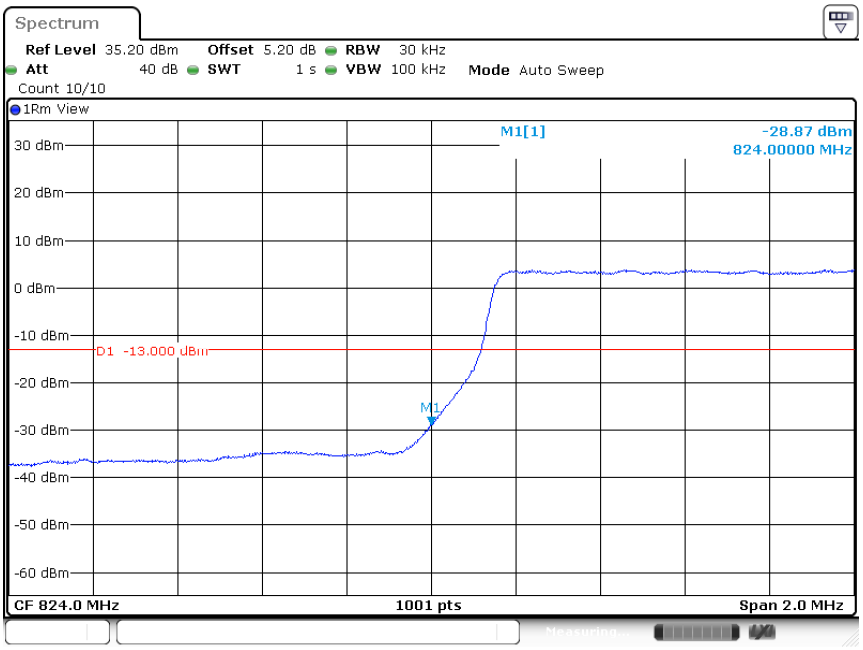

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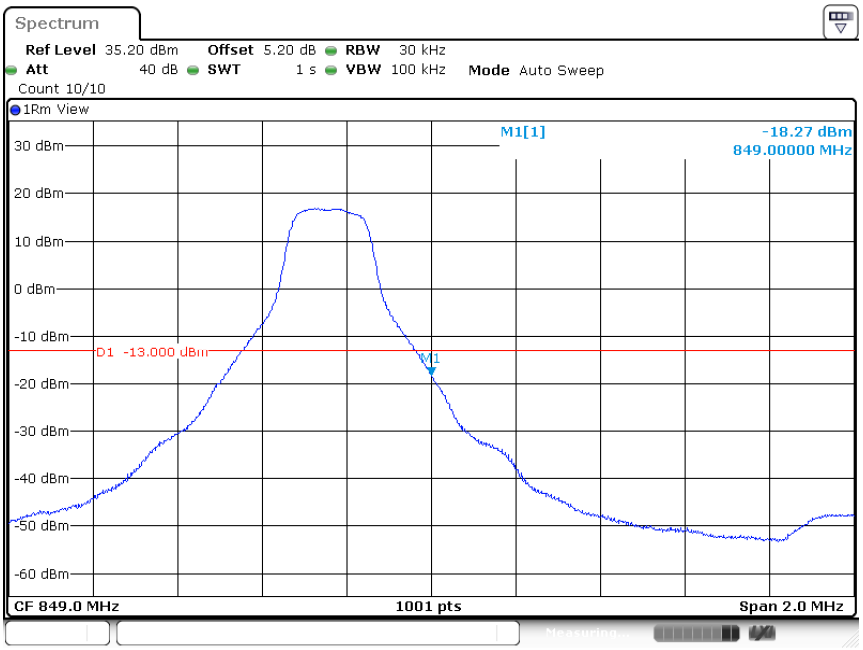

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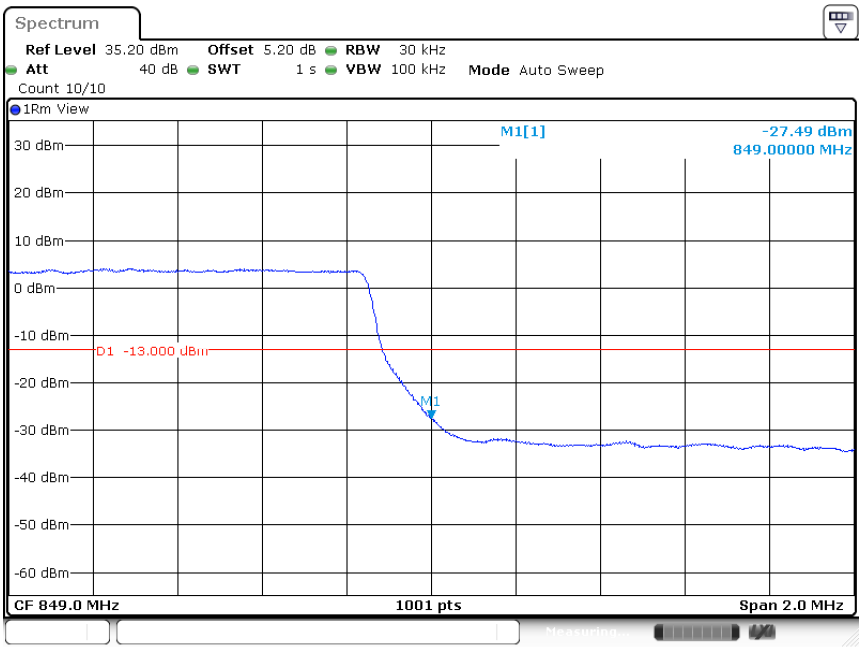
Band5-3MHz-QPSK-20635-15RB#0



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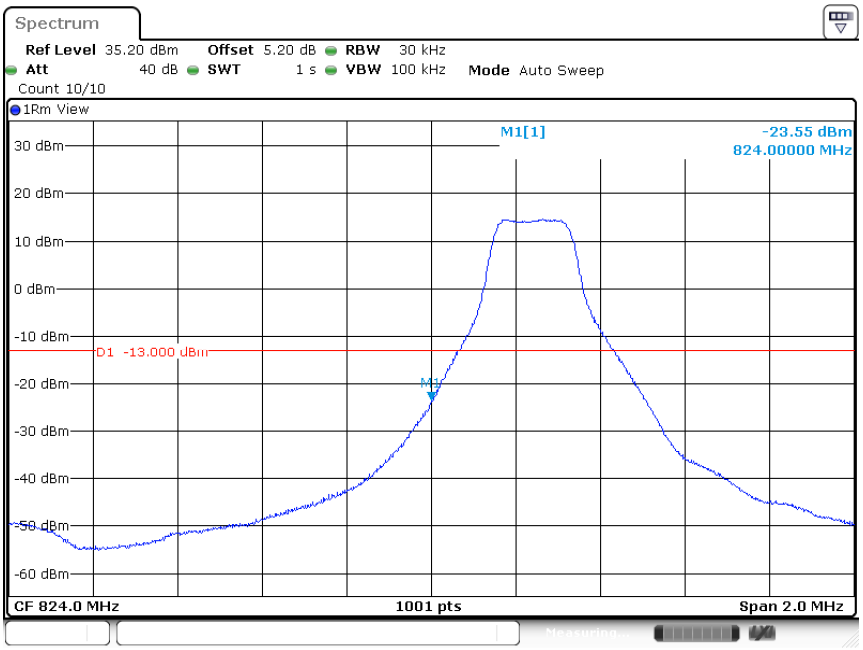

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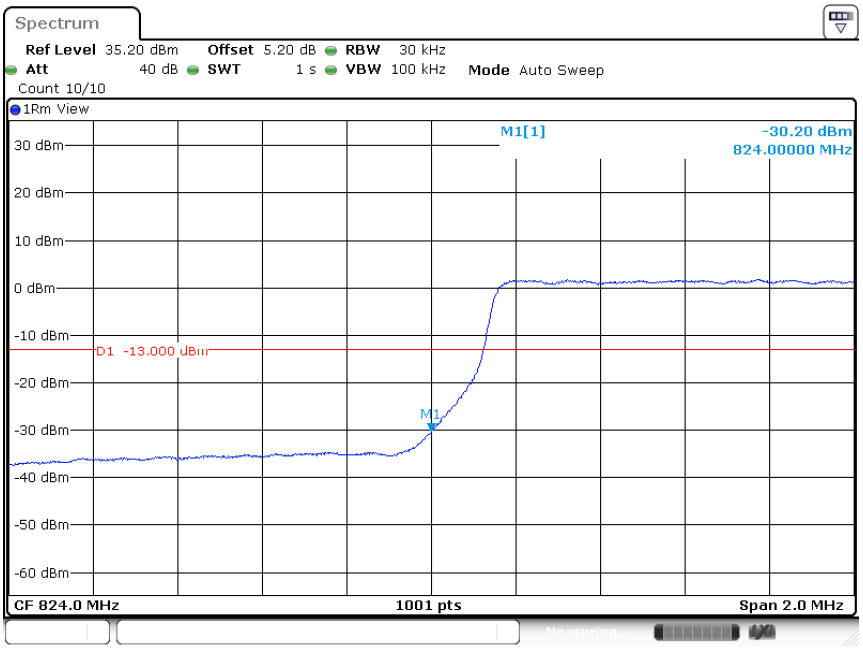

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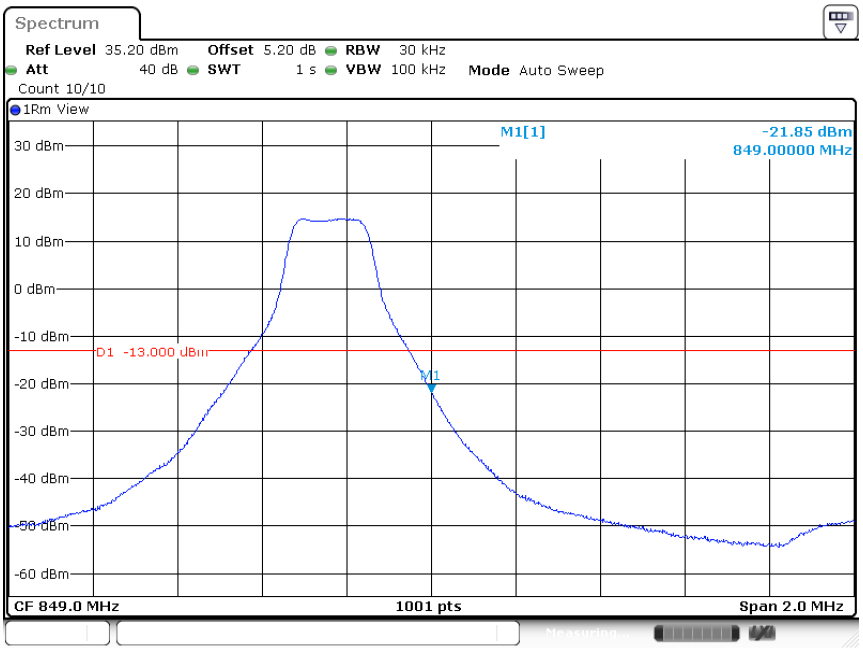

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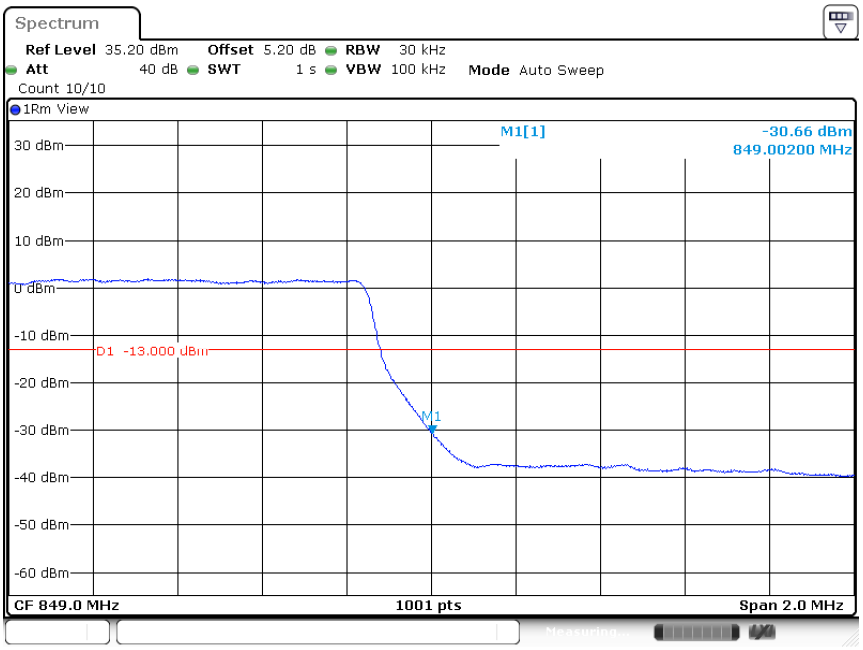

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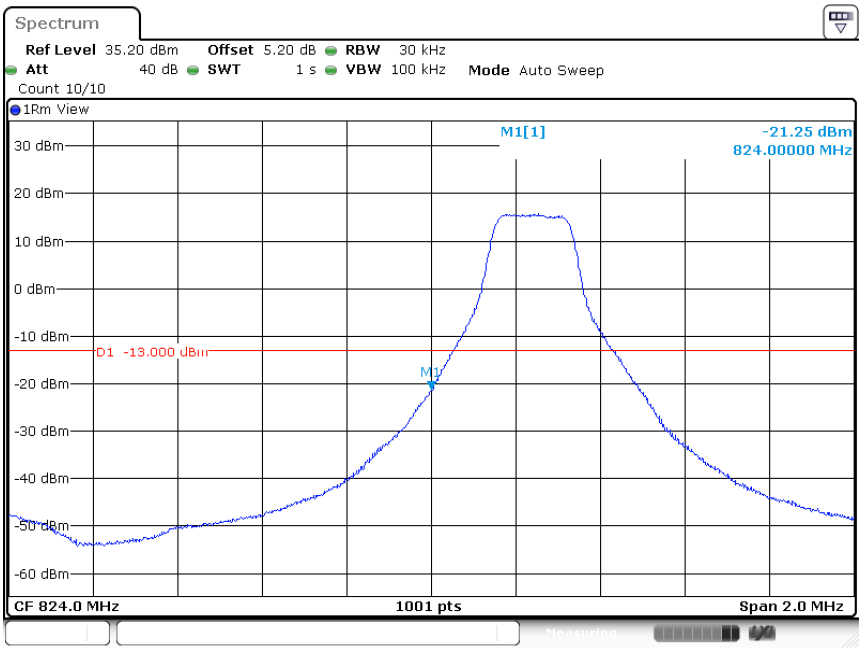

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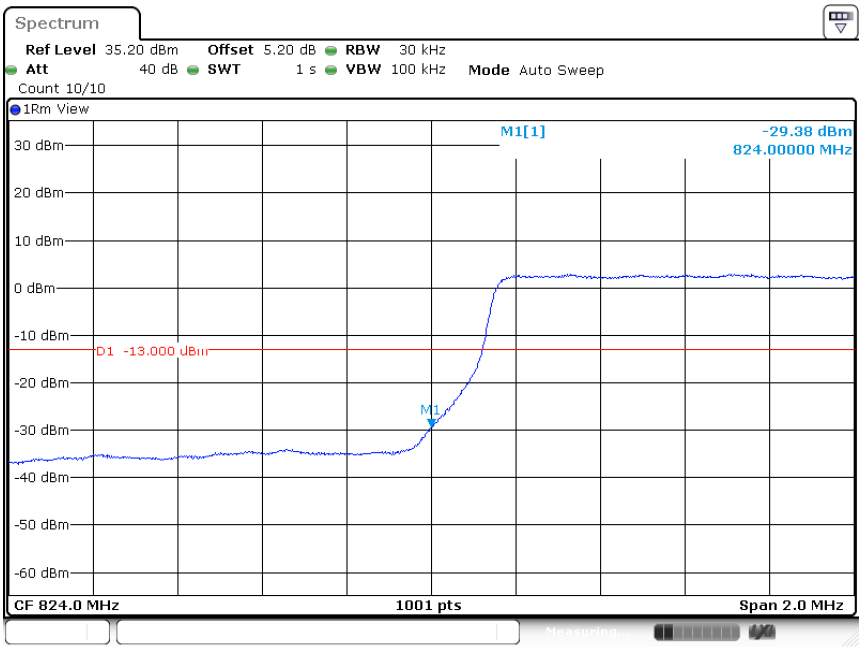

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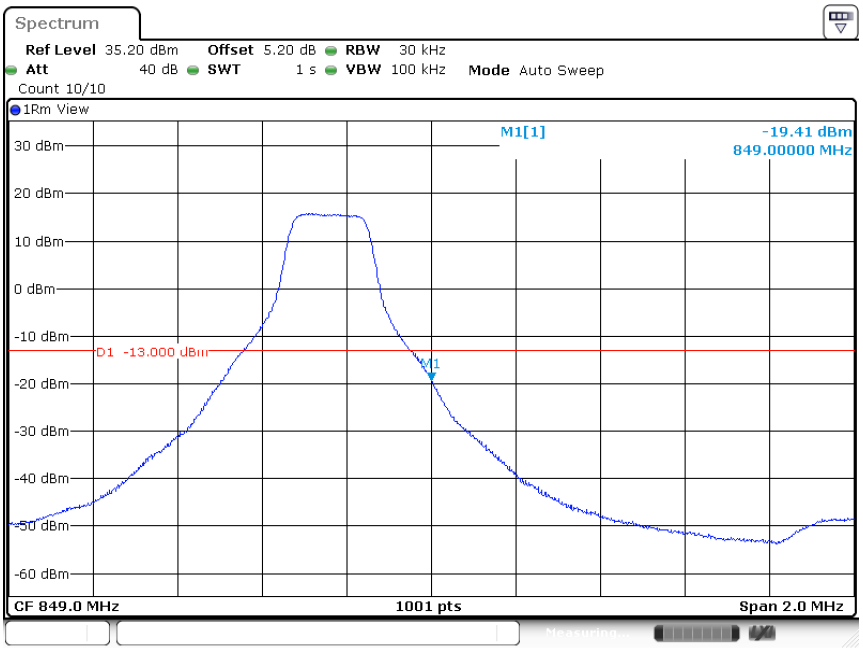

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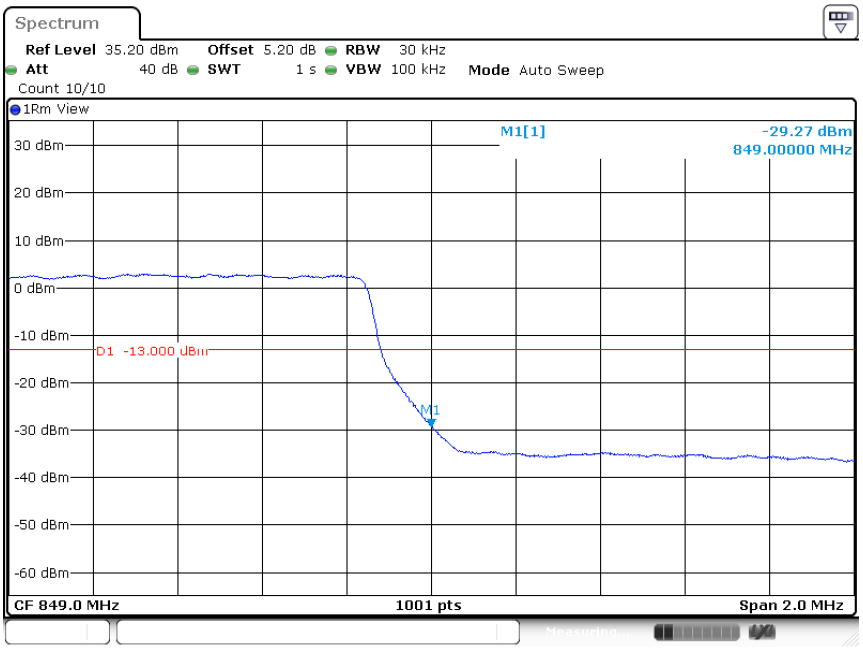

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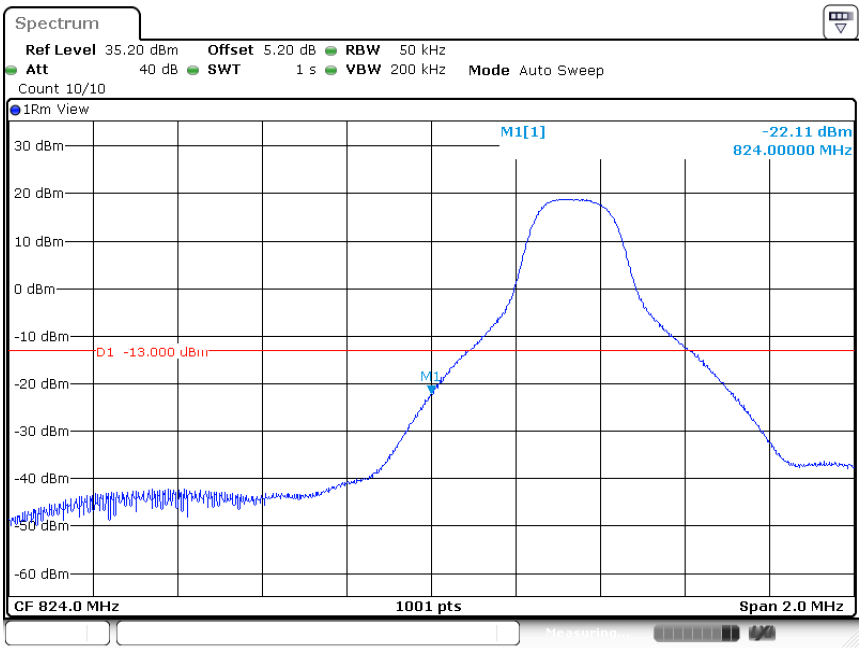

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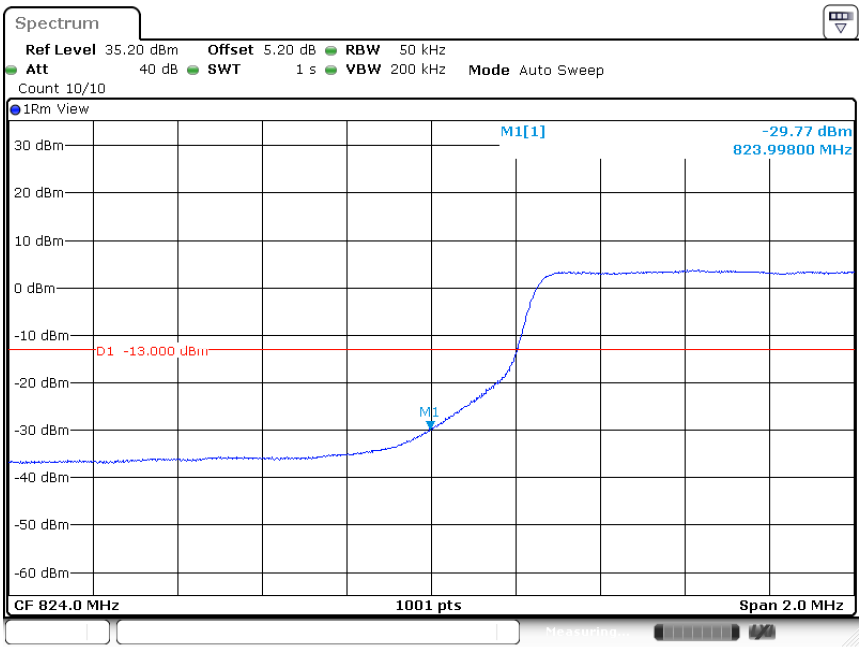

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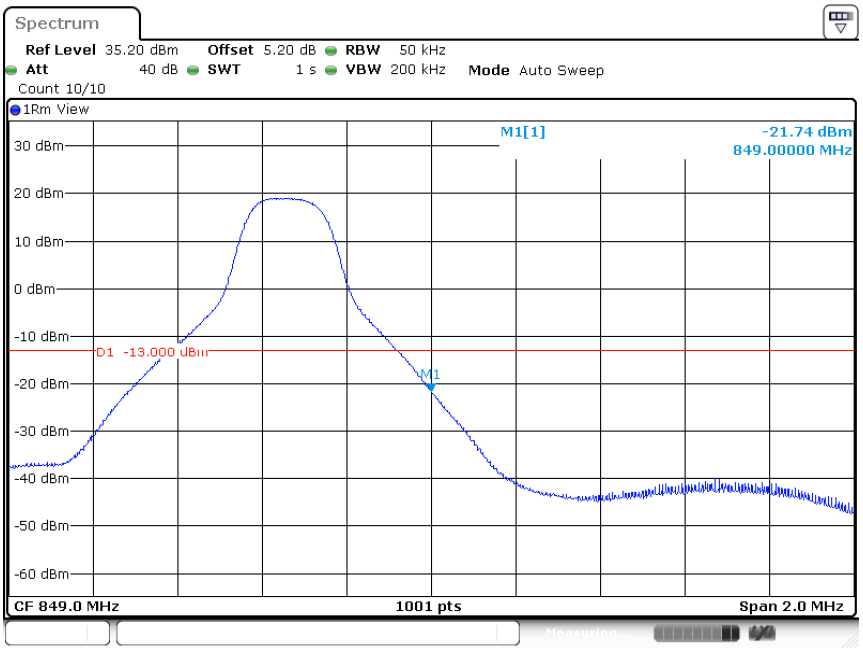
Band5-5MHz-QPSK-20625-1RB#24



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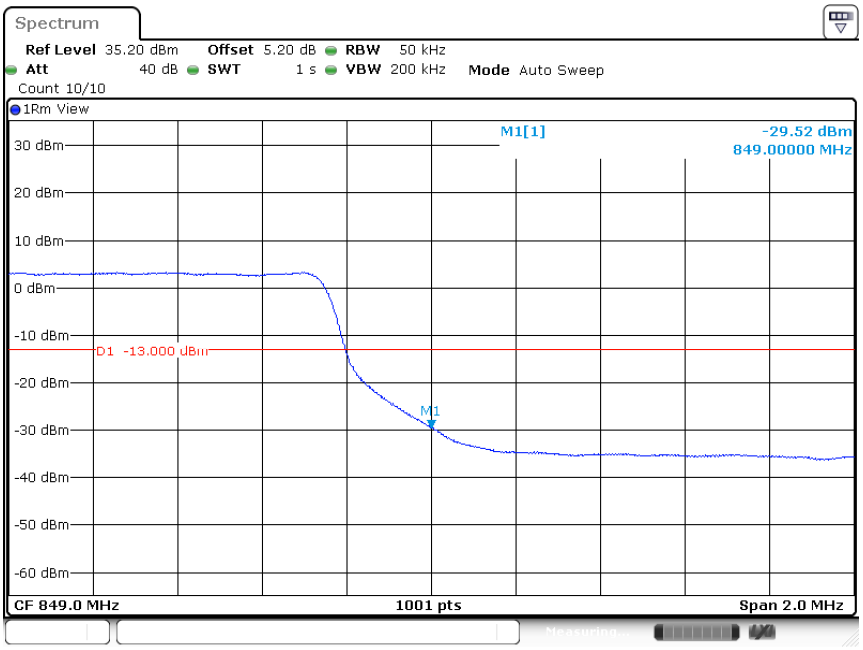

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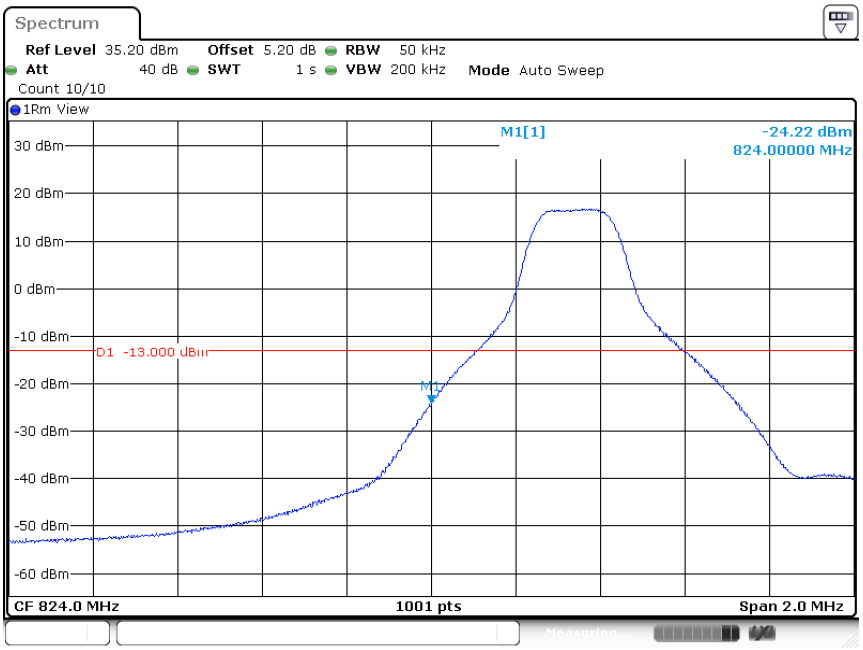

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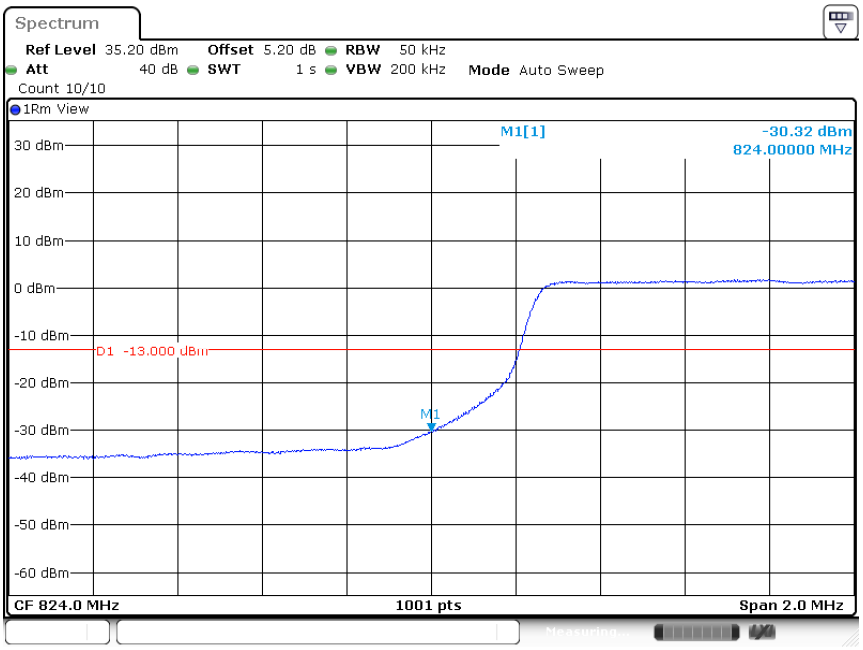

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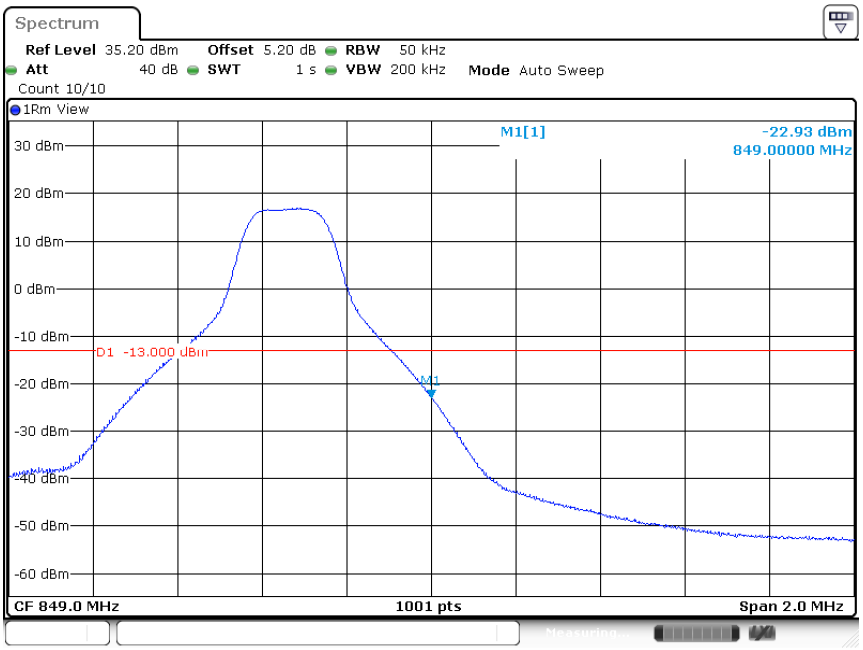

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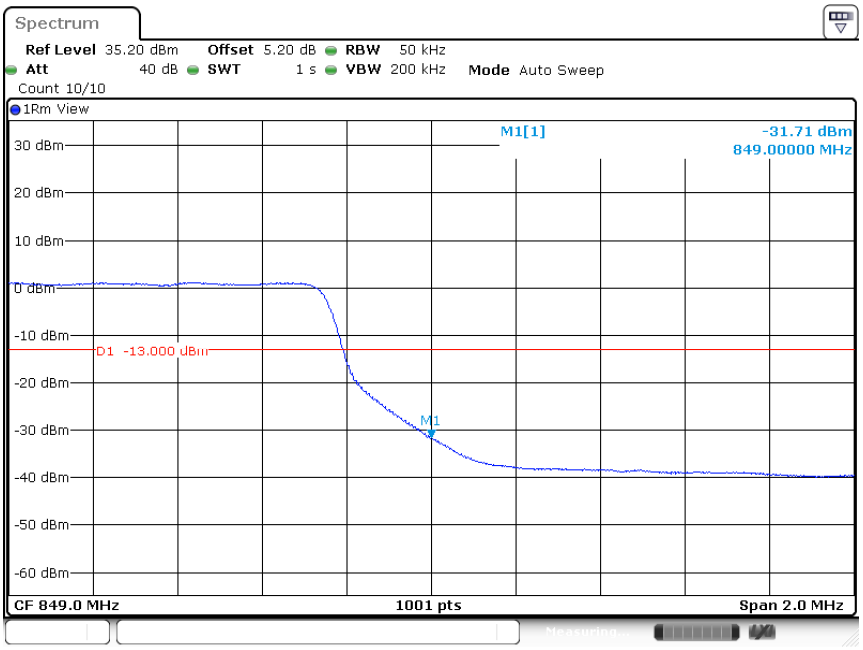

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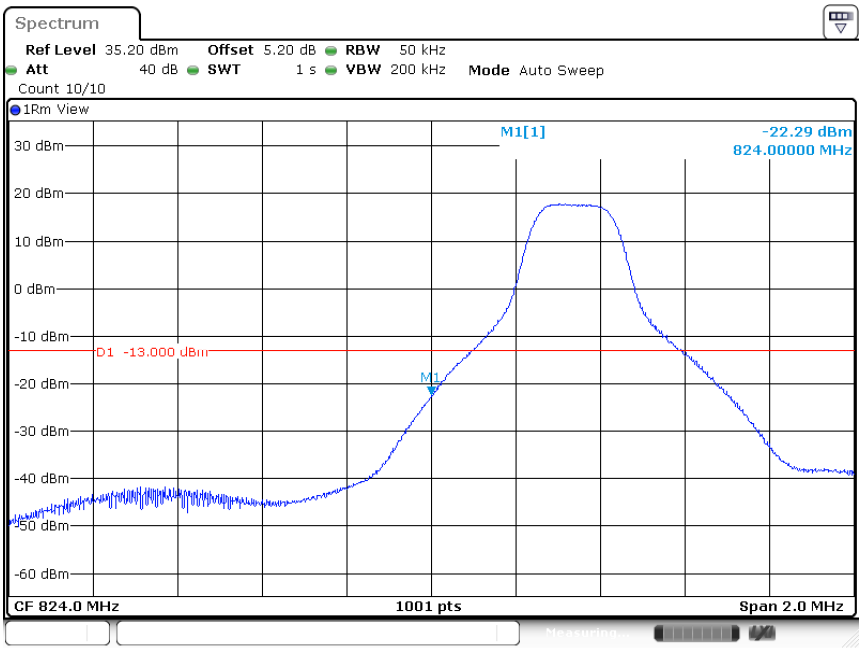

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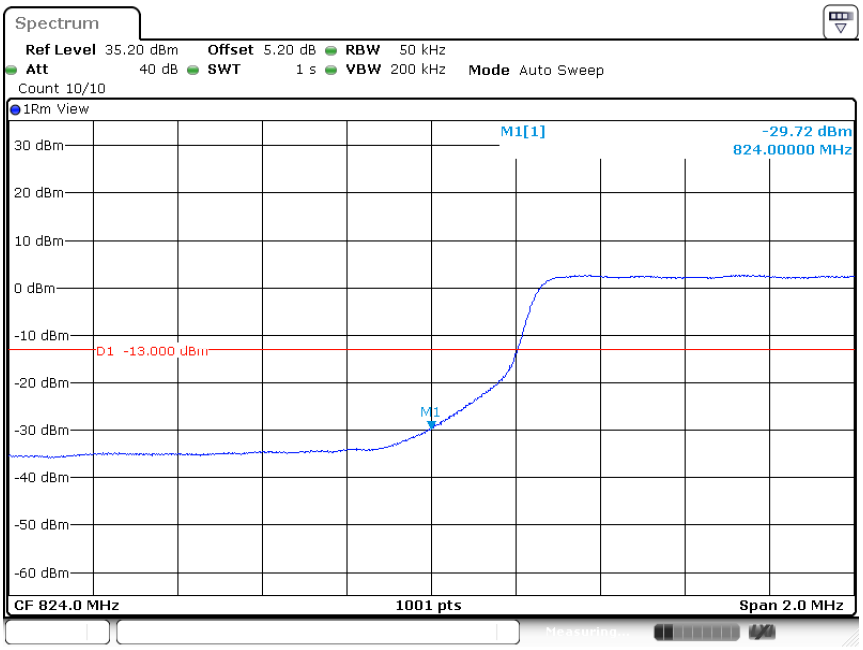

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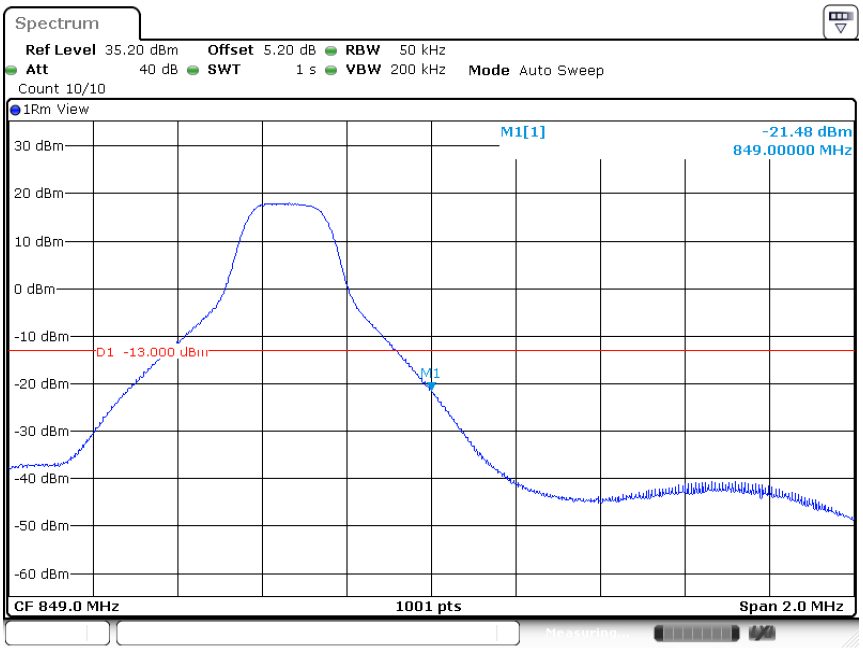

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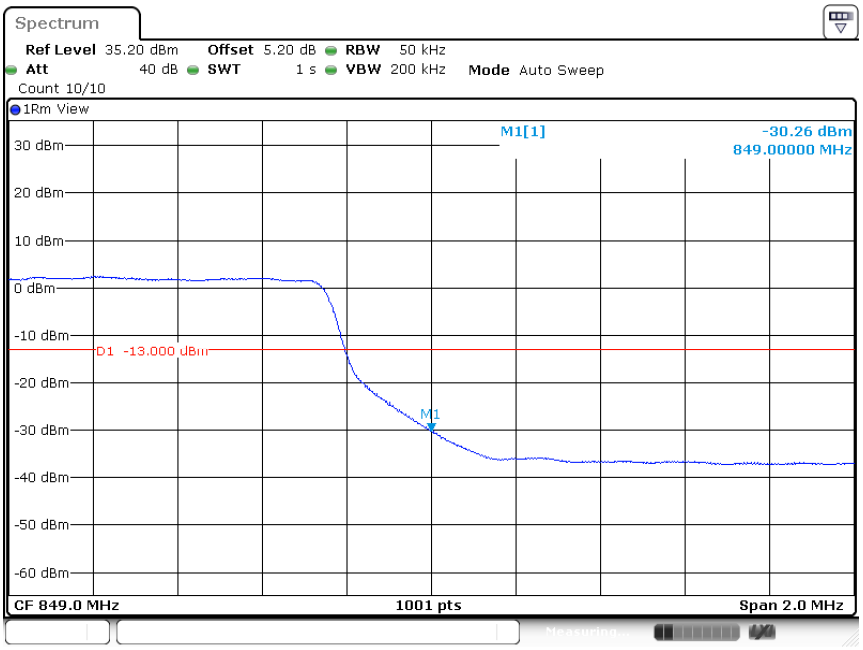
Band5-5MHz-16QAM-20625-25RB#0



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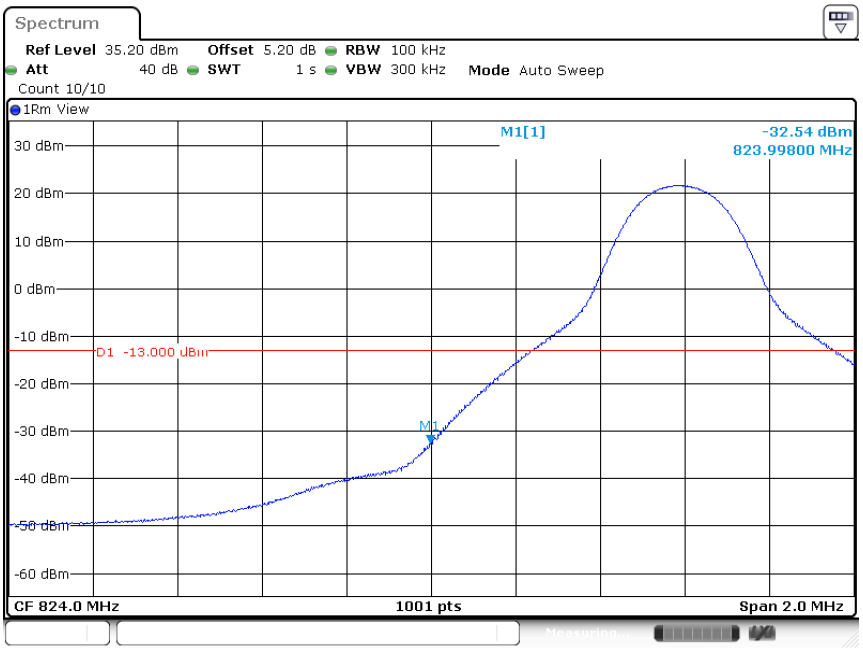
Band5-10MHz-QPSK-20450-1RB#0



Date: 3.SEP.2020 22:49:12

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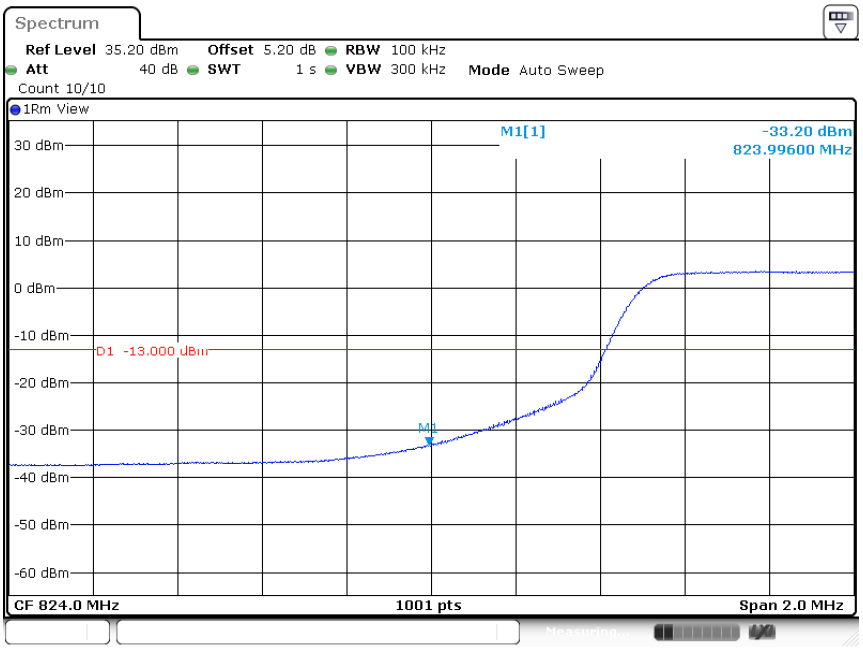
Band5-10MHz-QPSK-20450-50RB#0



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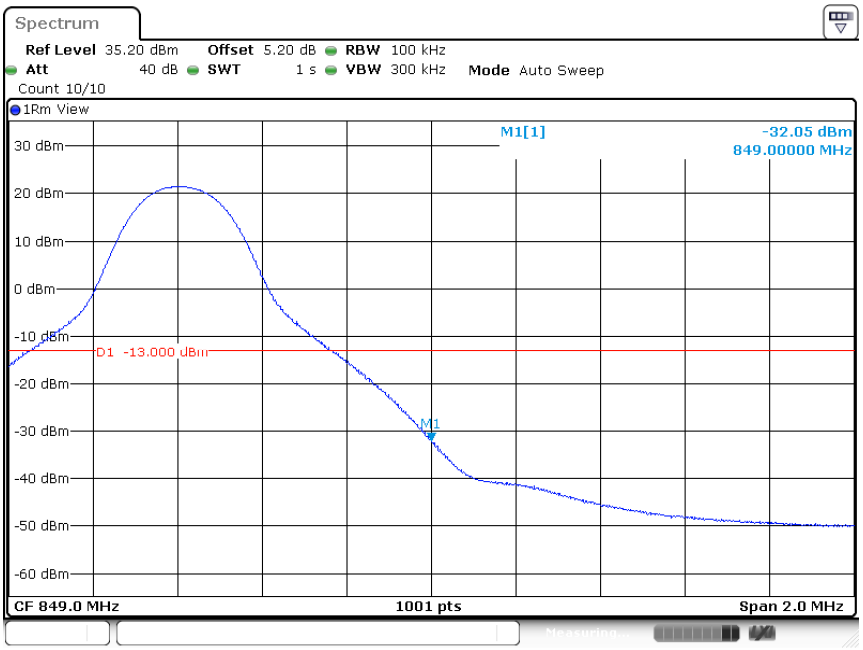
Band5-10MHz-QPSK-20600-1RB#49



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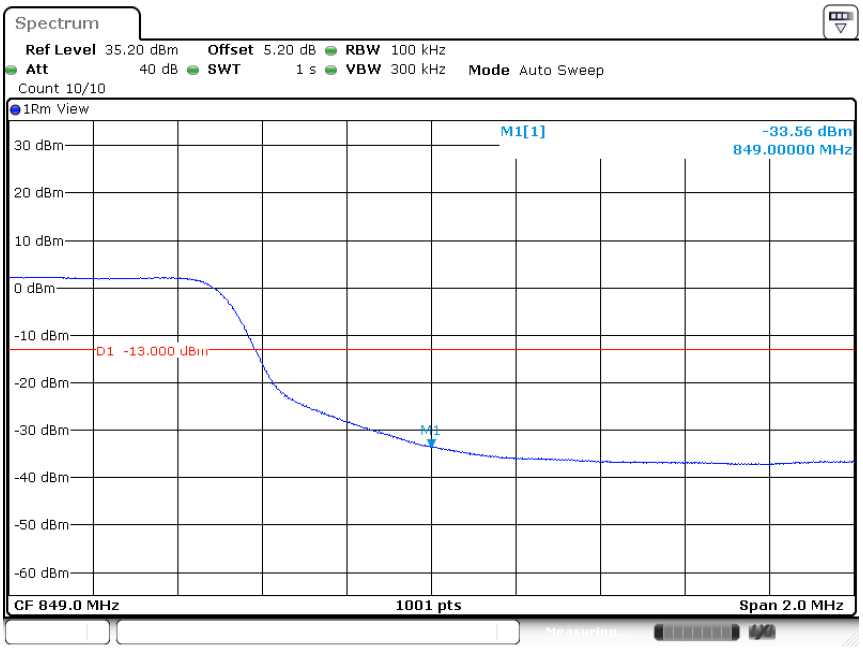
Band5-10MHz-QPSK-20600-50RB#0



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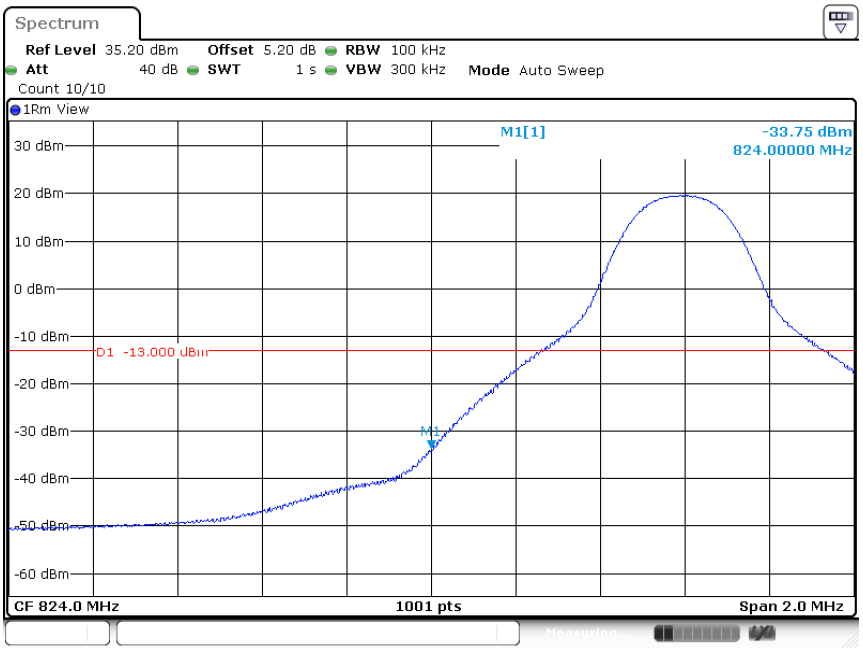
Band5-10MHz-64QAM-20450-1RB#0



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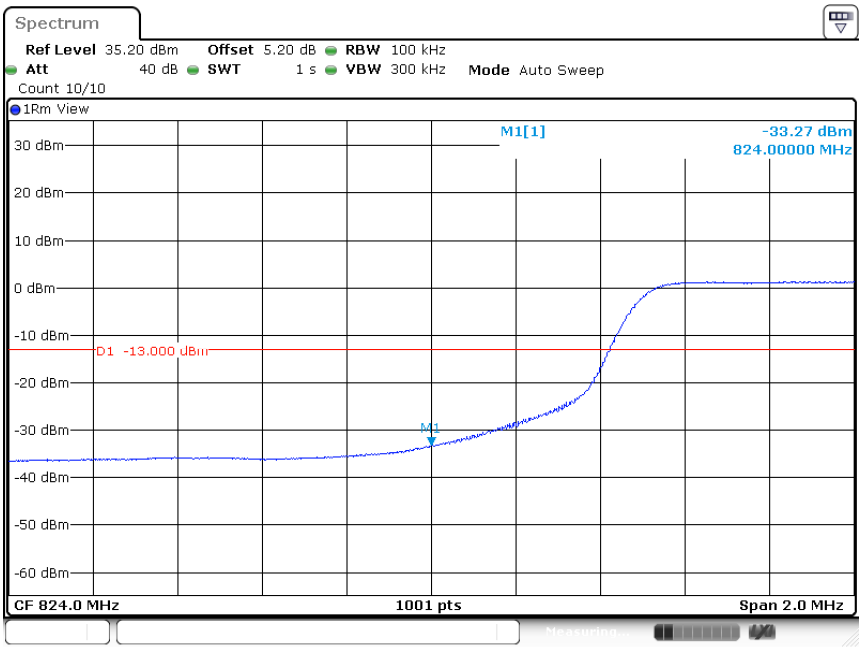
Band5-10MHz-64QAM-20450-50RB#0



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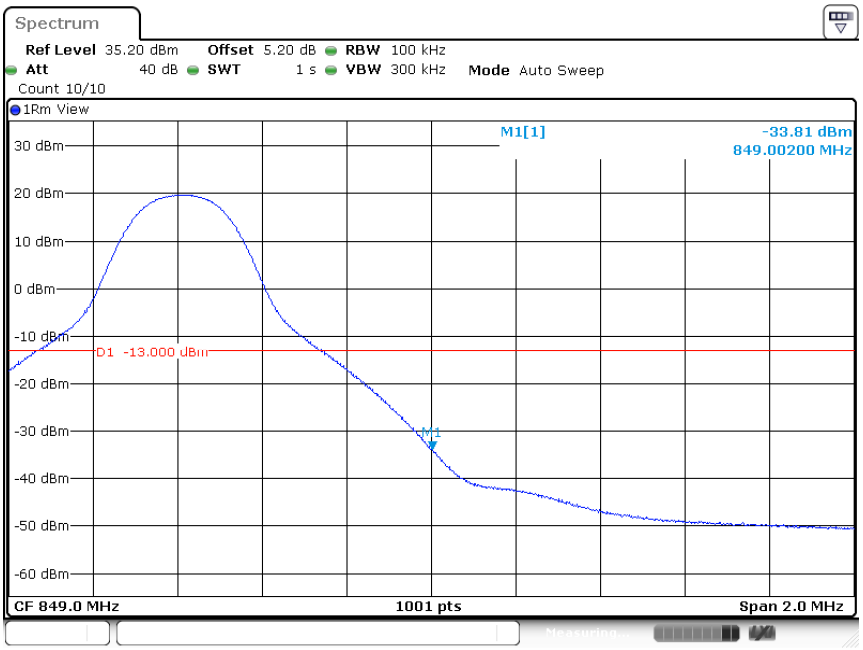
Band5-10MHz-64QAM-20600-1RB#49



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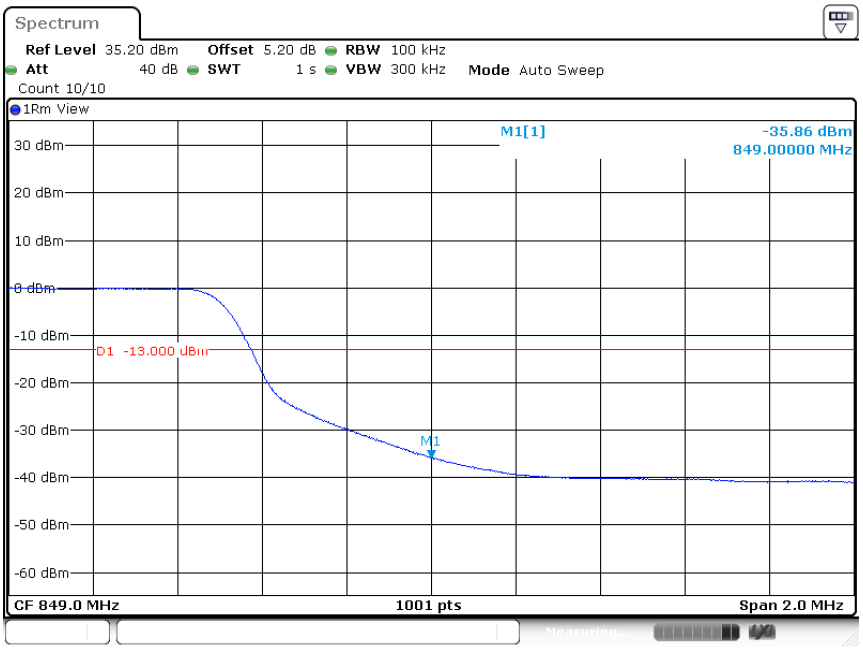
Band5-10MHz-64QAM-20600-50RB#0



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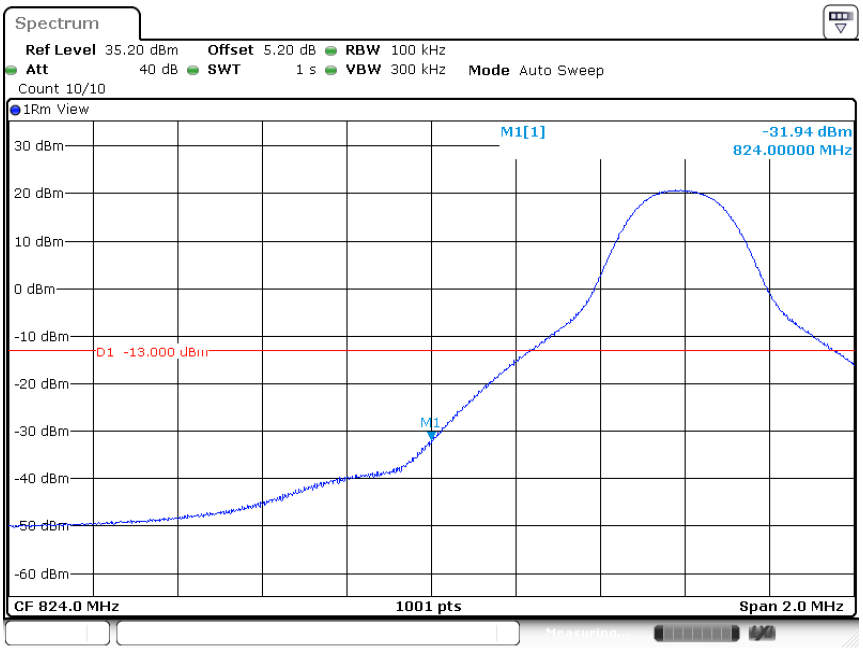
Band5-10MHz-16QAM-20450-1RB#0



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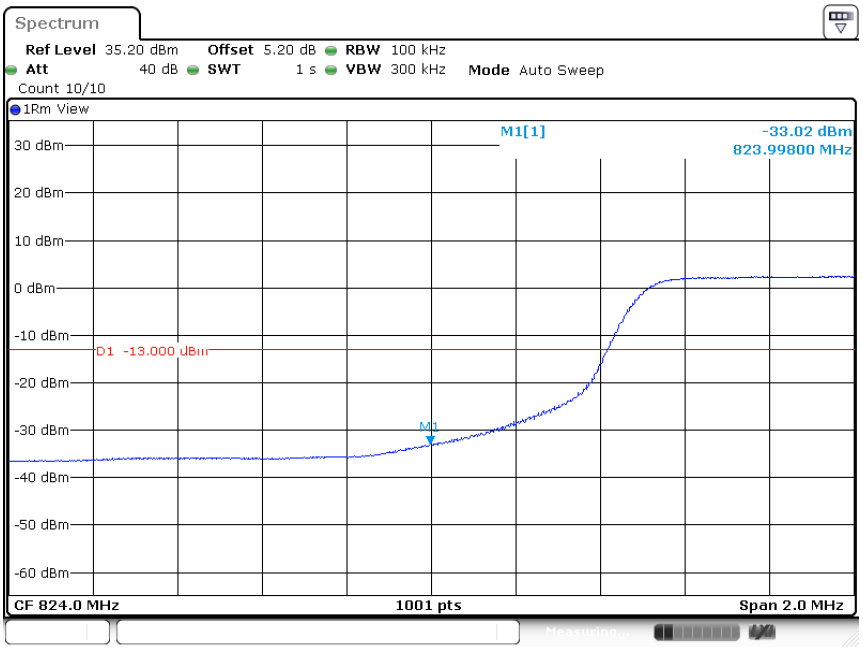
Band5-10MHz-16QAM-20450-50RB#0



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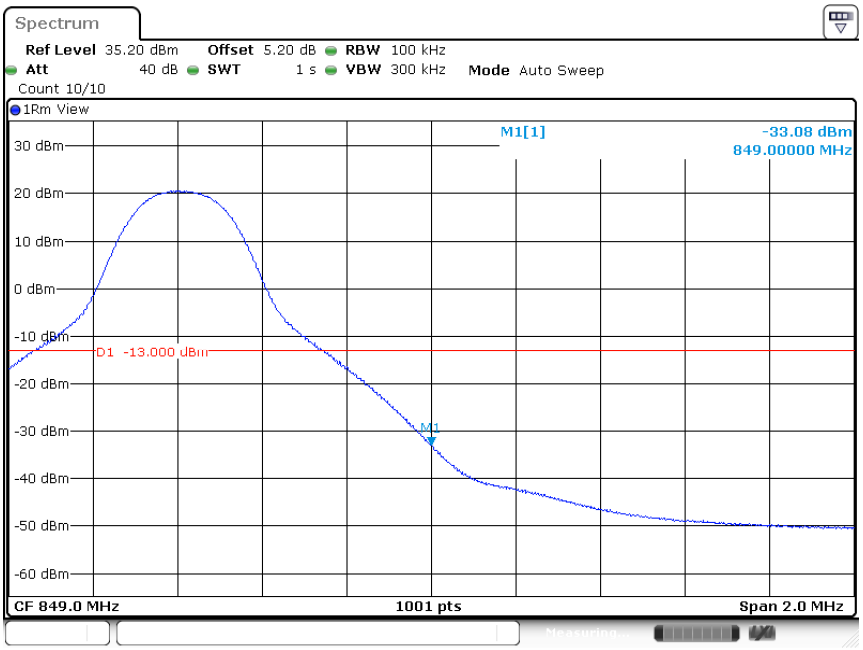
Band5-10MHz-16QAM-20600-1RB#49



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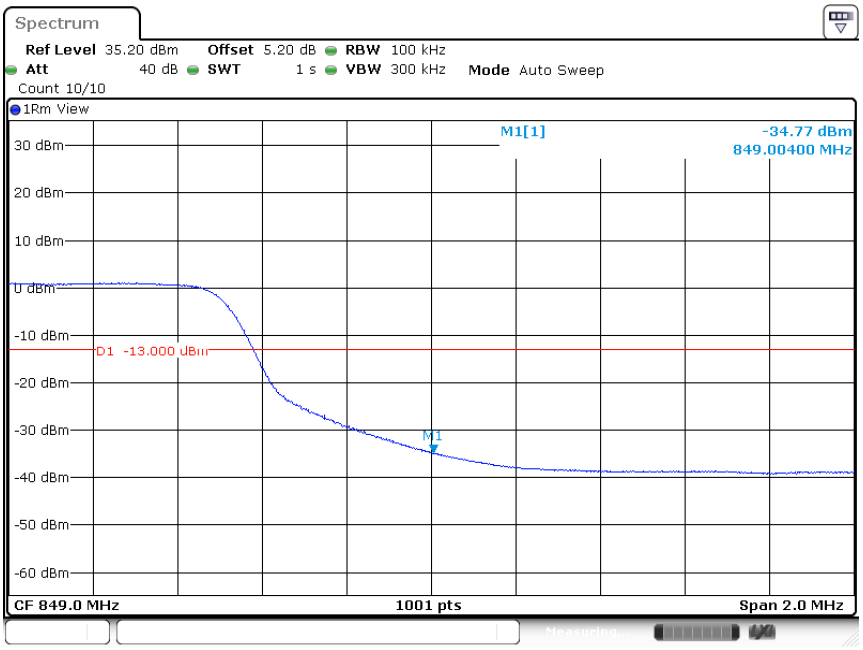

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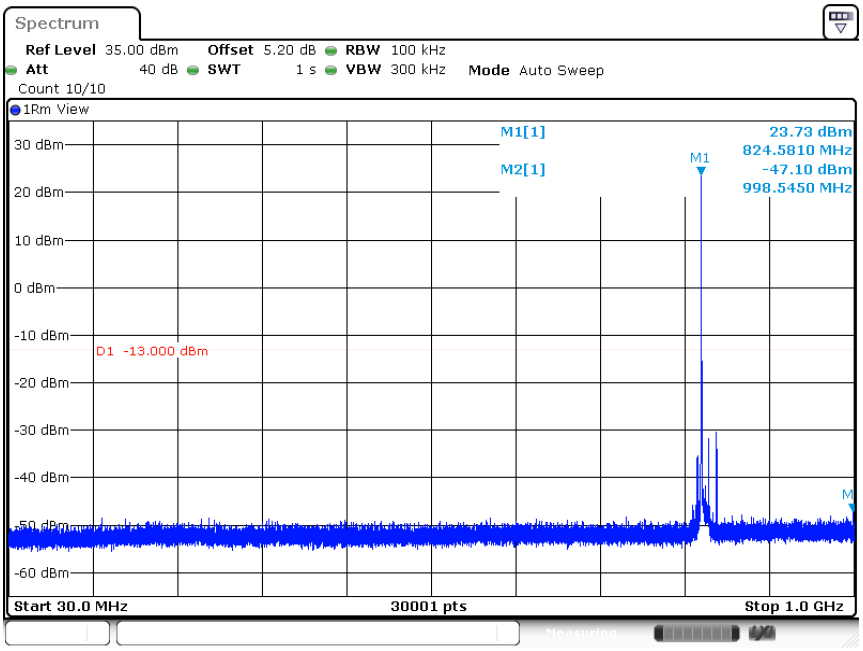
6. Spurious Emission at Antenna Terminal

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

Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



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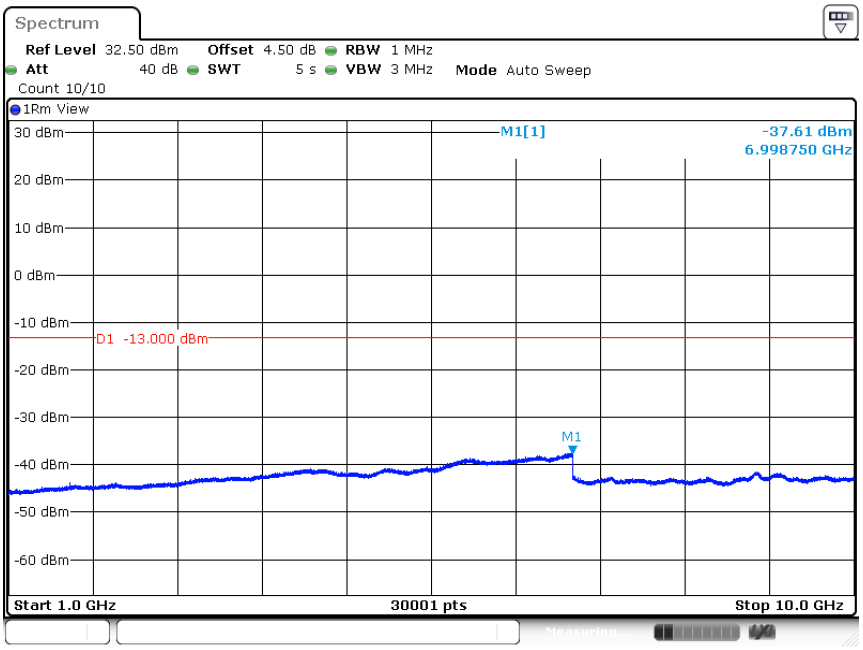
Band5-10MHz-QPSK-20450-1RB#0-Range1:1000~10000MHz



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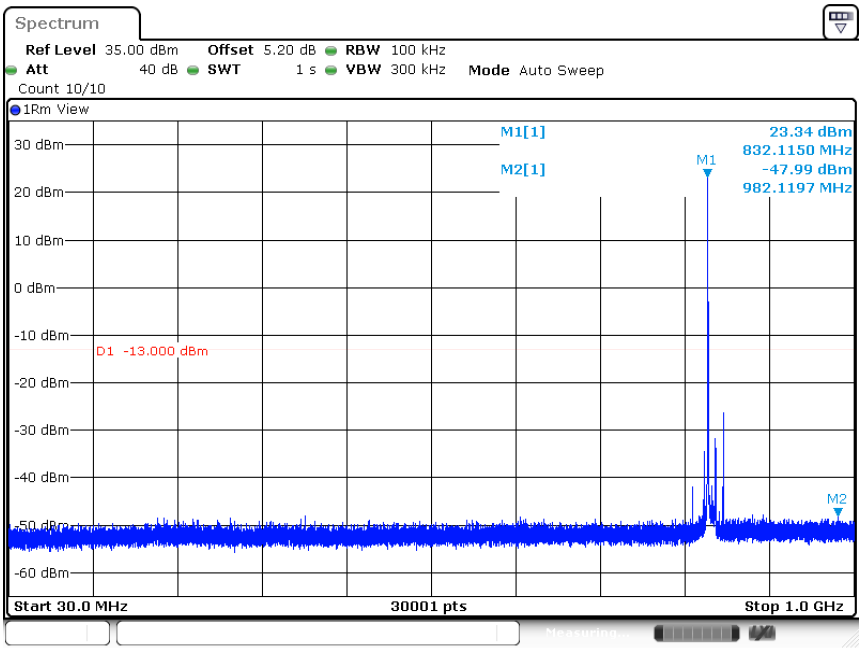

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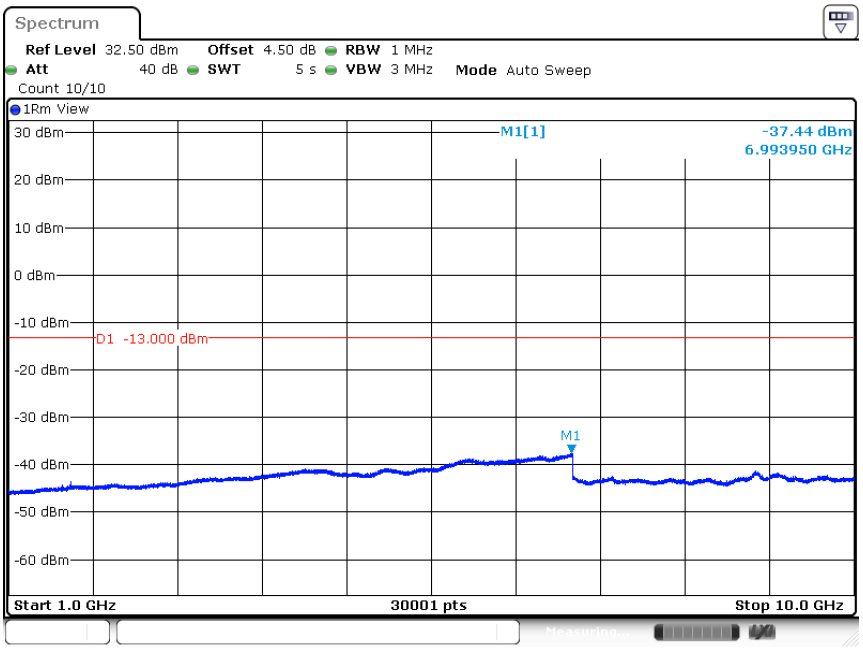
Band5-10MHz-QPSK-20525-1RB#0-Range1:1000~10000MHz



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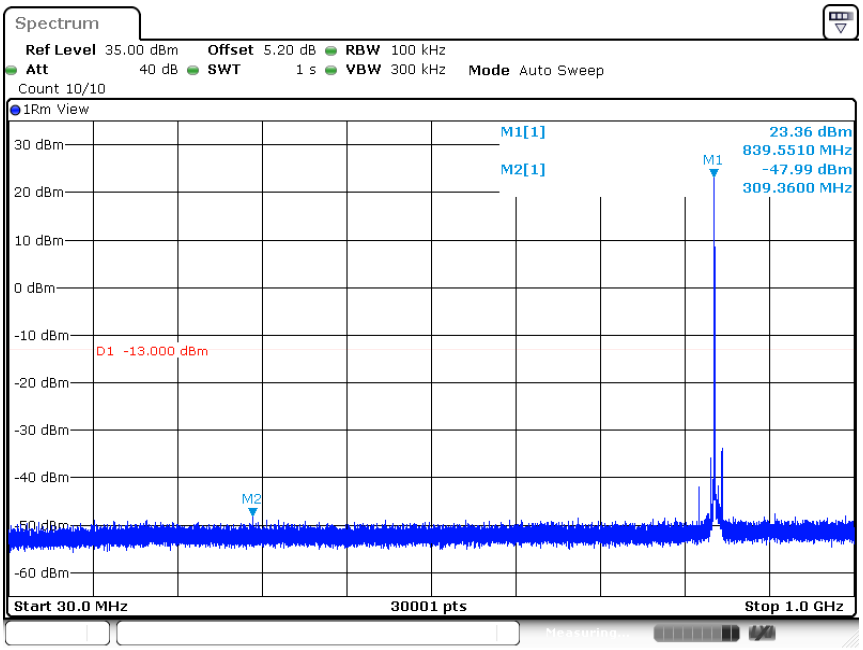

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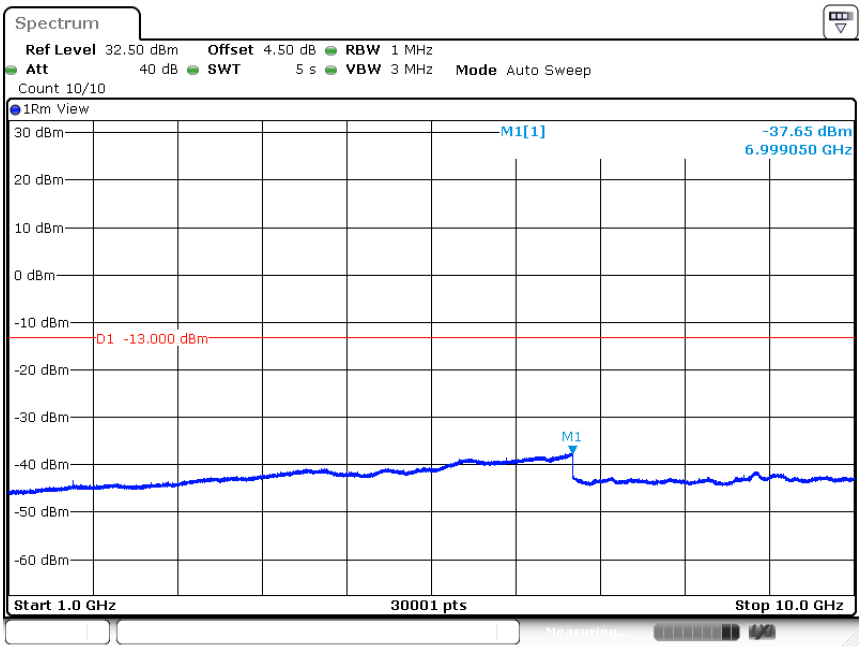
Band5-10MHz-QPSK-20600-1RB#0-Range1:1000~10000MHz



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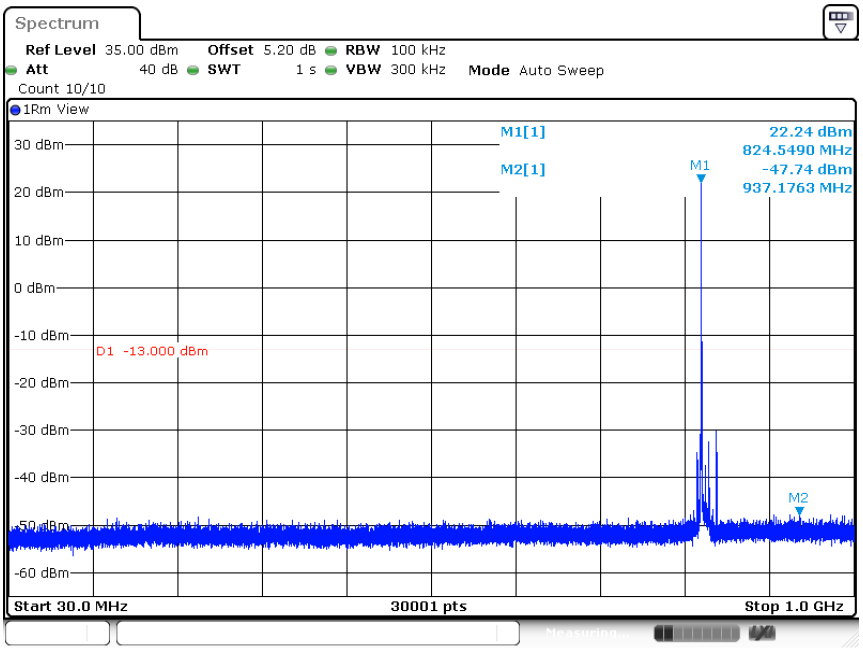

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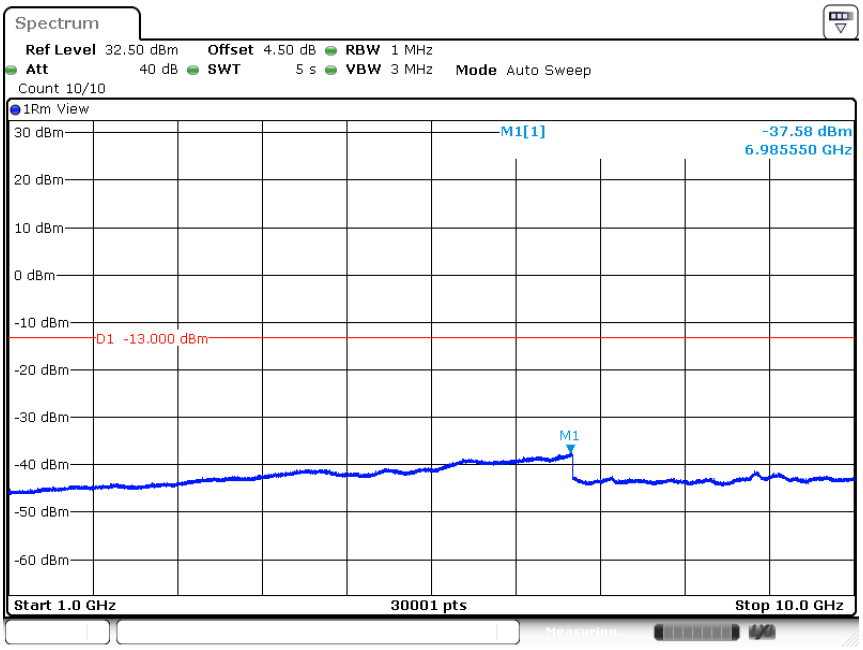
Band5-10MHz-64QAM-20450-1RB#0-Range1:1000~10000MHz



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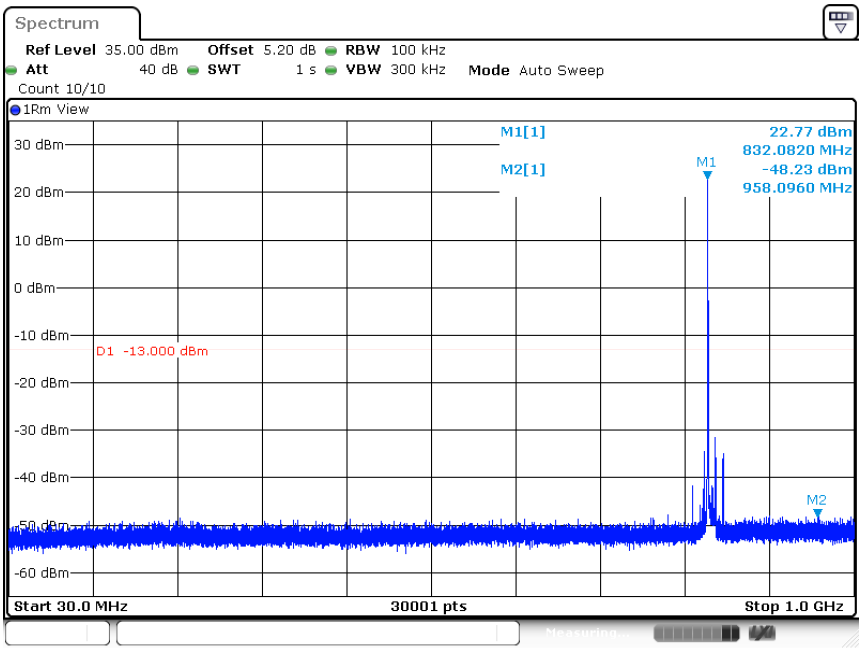

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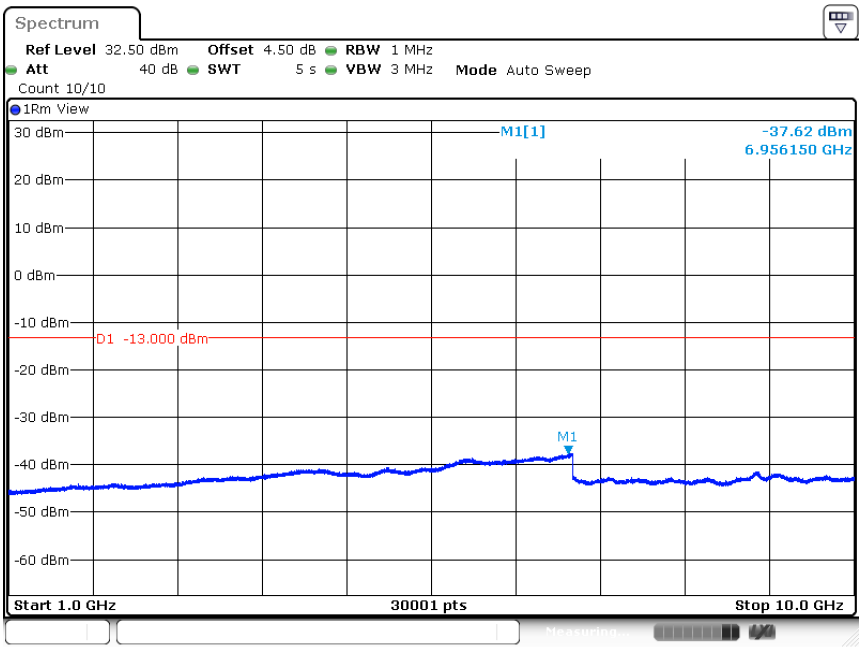

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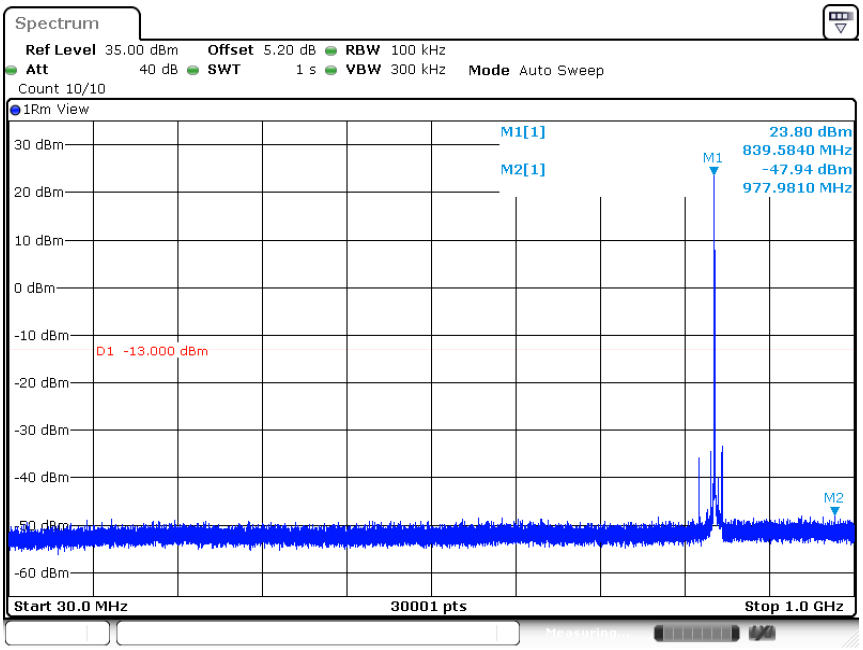

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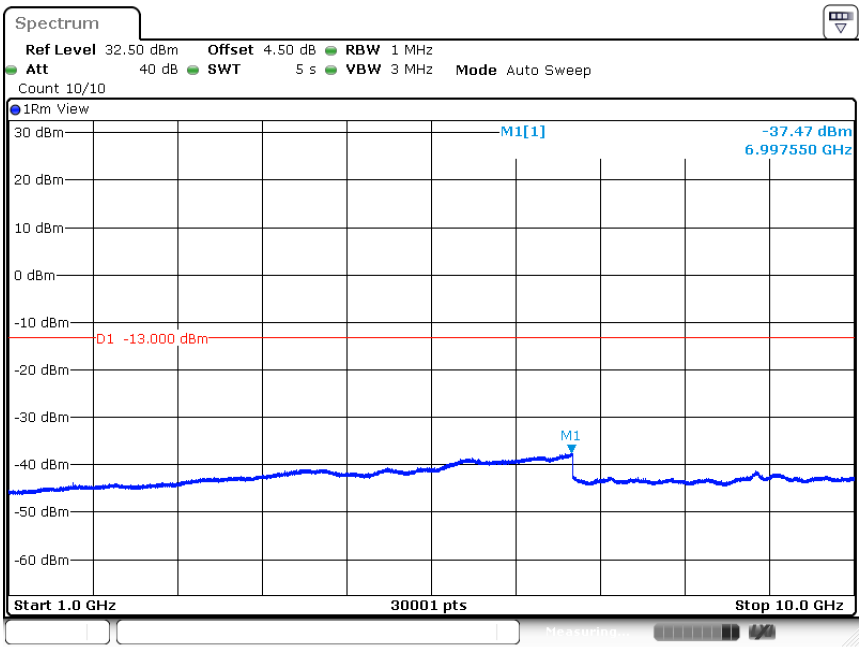

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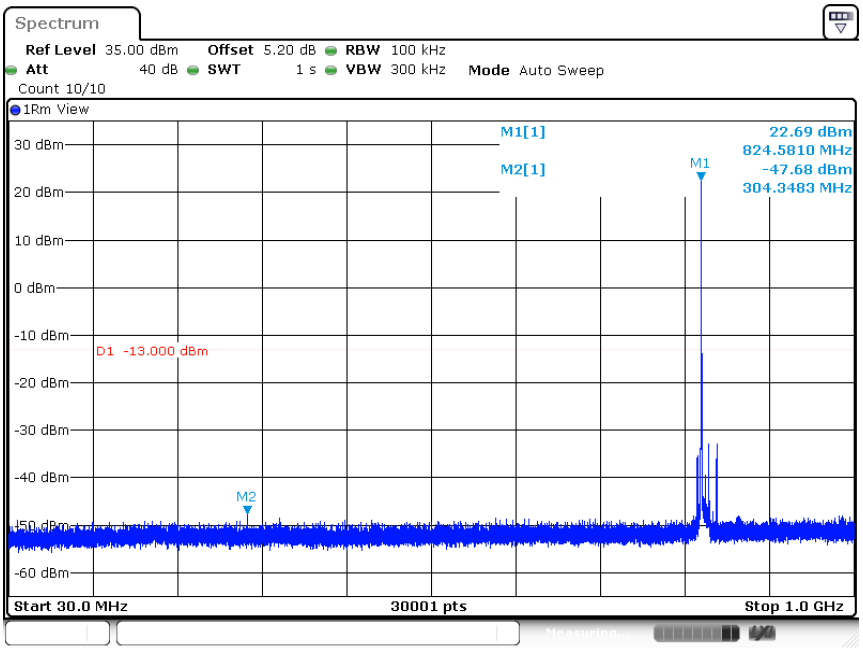

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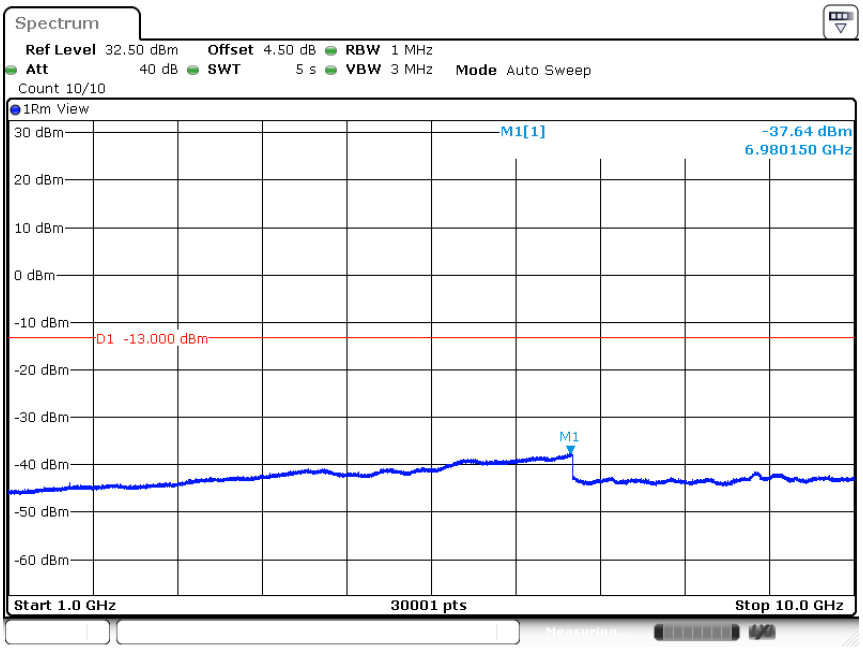
Band5-10MHz-16QAM-20450-1RB#0-Range1:1000~10000MHz



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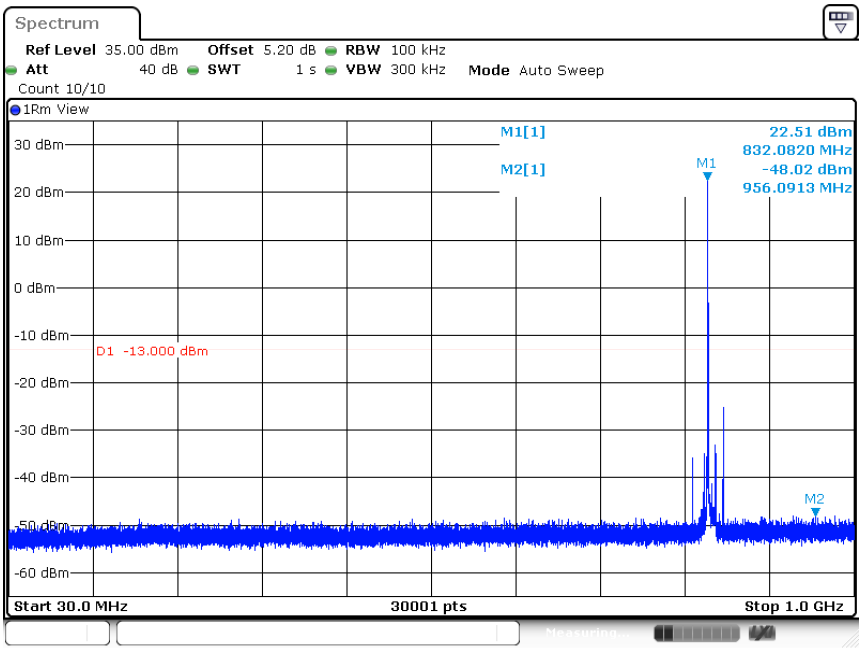

Date: 4.SEP.2020 14:03:49

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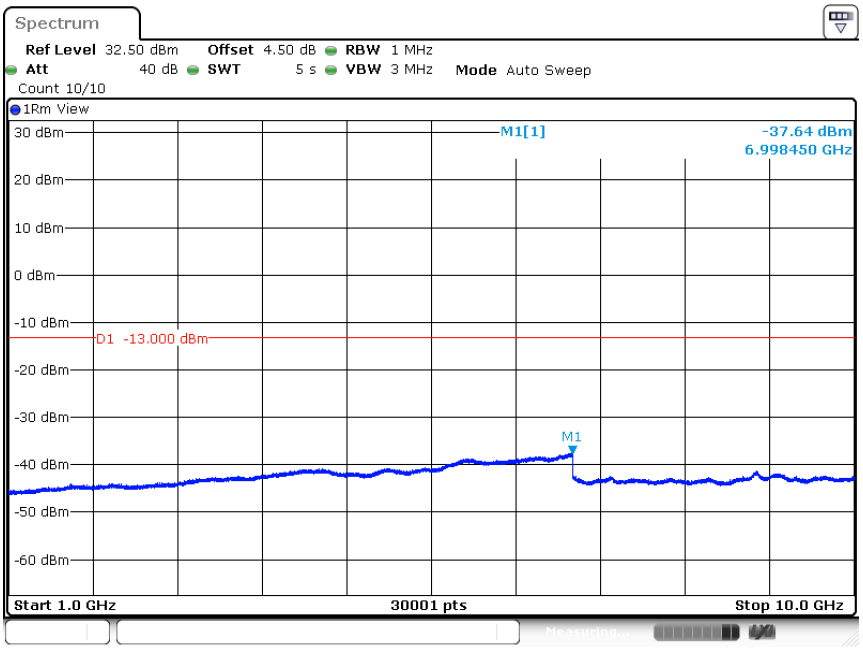
Band5-10MHz-16QAM-20525-1RB#0-Range1:1000~10000MHz



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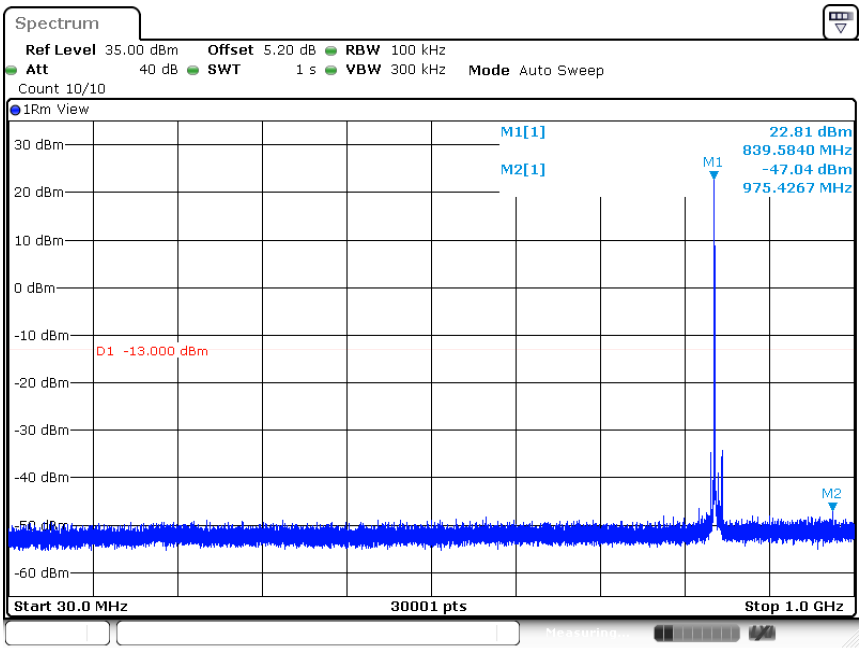

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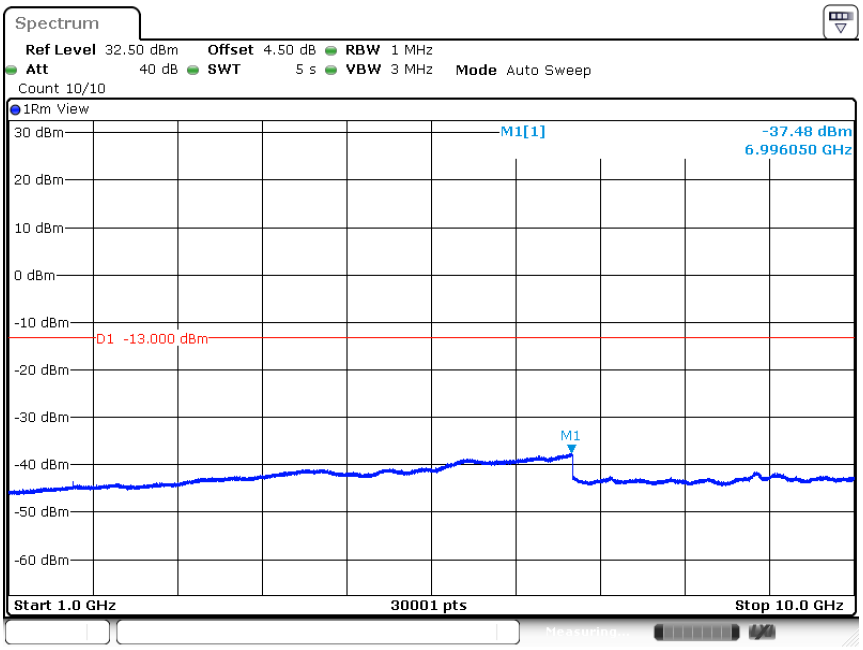

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.3938	-71.07	-13.00	58.07	Vertical
111.2901	-62.72	-13.00	49.72	Vertical
283.1342	-67.12	-13.00	54.12	Vertical
1748.1496	-62.93	-13.00	49.93	Vertical
2439.0878	-57.33	-13.00	44.33	Vertical
7417.6139	-55.68	-13.00	42.68	Vertical
45.8118	-62.54	-13.00	49.54	Horizontal
77.0474	-72.61	-13.00	59.61	Horizontal
235.3593	-65.20	-13.00	52.20	Horizontal
1648.9298	-64.24	-13.00	51.24	Horizontal
2699.9400	-55.74	-13.00	42.74	Horizontal
9303.2434	-52.40	-13.00	39.40	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.3154	-69.98	-13.00	56.98	Vertical
112.4056	-62.56	-13.00	49.56	Vertical
383.3402	-65.91	-13.00	52.91	Vertical
1778.5557	-62.87	-13.00	49.87	Vertical
2464.6929	-56.12	-13.00	43.12	Vertical
7460.0820	-55.69	-13.00	42.69	Vertical
42.9016	-61.92	-13.00	48.92	Horizontal
105.1788	-72.95	-13.00	59.95	Horizontal
242.9256	-65.46	-13.00	52.46	Horizontal
1664.1328	-60.60	-13.00	47.60	Horizontal
2699.5399	-56.24	-13.00	43.24	Horizontal
7467.3156	-56.32	-13.00	43.32	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.8632	-69.46	-13.00	56.46	Vertical
121.4756	-62.99	-13.00	49.99	Vertical
358.5554	-66.20	-13.00	53.20	Vertical
1682.1364	-64.59	-13.00	51.59	Vertical
2698.3397	-57.39	-13.00	44.39	Vertical
9796.2932	-52.13	-13.00	39.13	Vertical
44.8902	-61.95	-13.00	48.95	Horizontal
109.0105	-73.00	-13.00	60.00	Horizontal
243.0712	-65.71	-13.00	52.71	Horizontal
1924.1848	-61.67	-13.00	48.67	Horizontal
2701.5403	-56.19	-13.00	43.19	Horizontal
7459.6153	-56.11	-13.00	43.11	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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.70	0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	1.30	0.001568	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.80	-0.000948	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.40	0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	0.20	0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	1.10	0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.70	0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	0.40	0.000483	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-2.80	-0.003347	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-2.60	-0.003081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.80	0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	0.50	0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	0.20	0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-10	0.80	0.000965	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-1.80	-0.002171	±2.5	PASS

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Band5	10MHz	64QAM	20450	50RB#0	NV	40	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	1.10	0.001327	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	0.80	0.000956	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-10	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	0.20	0.000237	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-10	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	0.70	0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	1.40	0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-2.70	-0.003257	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-2.00	-0.002413	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.90	0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.10	-0.000120	±2.5	PASS

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