

Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.62	14.47	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.59	14.44	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.46	14.31	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.55	14.4	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.81	14.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.75	14.6	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.65	13.5	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.57	14.42	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.72	14.57	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.63	14.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.75	14.6	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.79	14.64	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.73	14.58	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.70	13.55	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.64	14.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.75	14.6	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.50	14.35	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.83	14.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.85	14.7	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.75	14.6	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.74	13.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.31	13.16	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.45	13.3	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.09	12.94	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.77	13.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.78	13.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.92	13.77	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.68	12.53	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.28	13.13	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.50	13.35	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.20	13.05	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.79	13.64	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	22.72	13.57	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.73	13.58	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.77	12.62	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.43	13.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.49	13.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.33	13.18	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.91	13.76	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.87	13.72	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.94	13.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.87	12.72	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.46	14.31	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.62	14.47	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.33	14.18	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.74	13.59	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.63	13.48	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.54	13.39	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.53	13.38	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.46	14.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.69	14.54	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.38	14.23	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.82	13.67	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.79	13.64	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.71	13.56	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.71	13.56	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.52	14.37	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.97	14.82	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.58	14.43	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.78	13.63	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.79	13.64	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.70	13.55	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.72	13.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.18	13.03	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.09	12.94	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.11	12.96	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.56	12.41	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.43	12.28	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.50	12.35	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.48	12.33	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.27	13.12	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.29	13.14	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.45	13.3	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.97	12.82	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.69	12.54	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.68	12.53	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.75	12.6	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.37	13.22	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.43	13.28	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.48	13.33	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.02	12.87	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.56	12.41	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.62	12.47	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.86	12.71	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.33	14.18	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.80	14.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.29	14.14	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.60	13.45	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.53	13.38	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.42	13.27	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.54	13.39	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.48	14.33	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.08	14.93	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.35	14.2	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.83	13.68	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.81	13.66	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.57	13.42	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.71	13.56	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.39	14.24	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.10	14.95	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.25	14.1	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.75	13.6	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.74	13.59	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.54	13.39	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.67	13.52	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.22	13.07	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.53	13.38	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.17	13.02	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.47	12.32	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.39	12.24	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.41	12.26	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.48	12.33	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.27	13.12	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.61	13.46	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.44	13.29	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.63	12.48	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.80	12.65	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.55	12.4	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.64	12.49	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.31	13.16	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.63	13.48	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.28	13.13	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.77	12.62	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.47	12.32	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.58	12.43	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.70	12.55	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.50	14.35	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.14	14.99	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.47	14.32	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.65	13.5	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.69	13.54	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.53	13.38	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.68	13.53	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.42	14.27	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.99	14.84	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.41	14.26	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.95	13.8	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.76	13.61	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.56	13.41	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.73	13.58	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.56	14.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.97	14.82	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.51	14.36	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.87	13.72	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.84	13.69	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.65	13.5	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.72	13.57	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.43	13.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.05	13.9	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.35	13.2	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.43	12.28	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.56	12.41	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.59	12.44	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.61	12.46	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.39	13.24	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.51	13.36	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.43	13.28	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.95	12.8	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.70	12.55	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.75	12.6	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.78	12.63	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.47	13.32	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.38	13.23	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.47	13.32	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.81	12.66	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.68	12.53	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.63	12.48	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.70	12.55	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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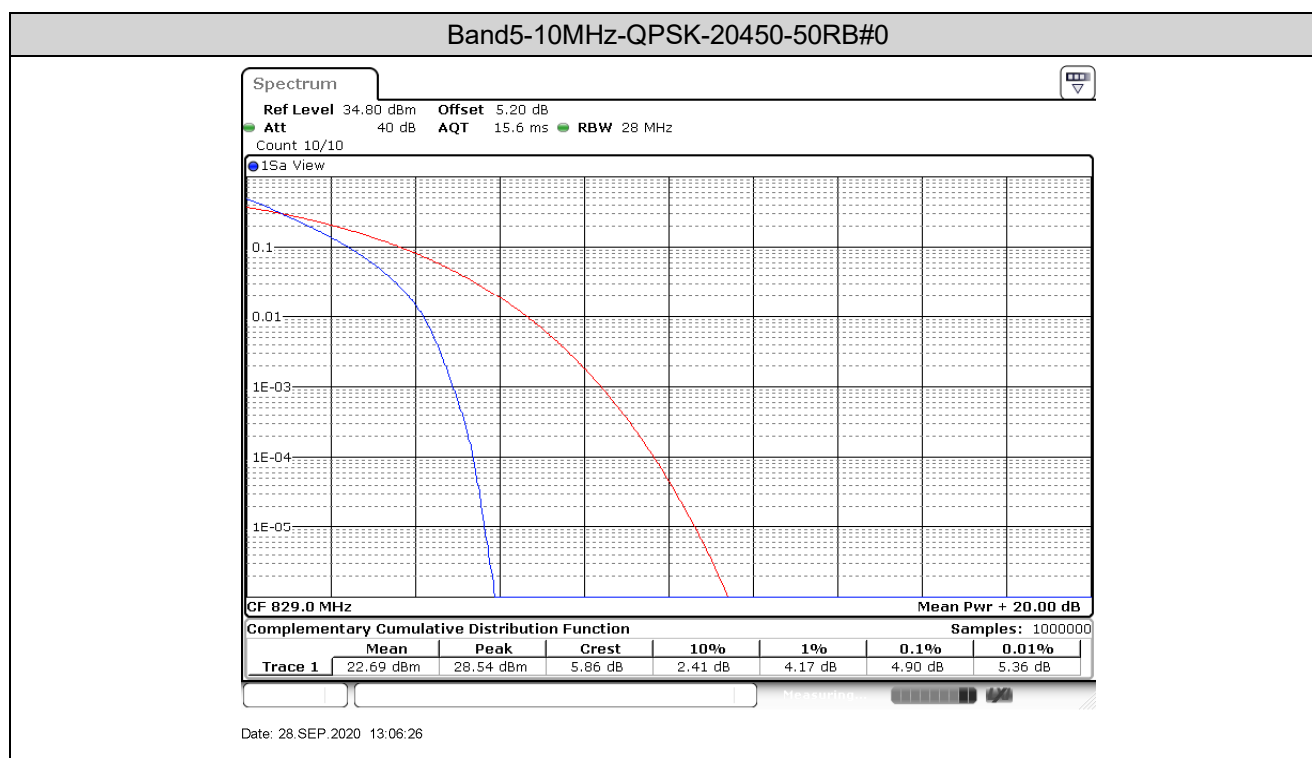


2. Peak-to-Average Ratio (CCDF)

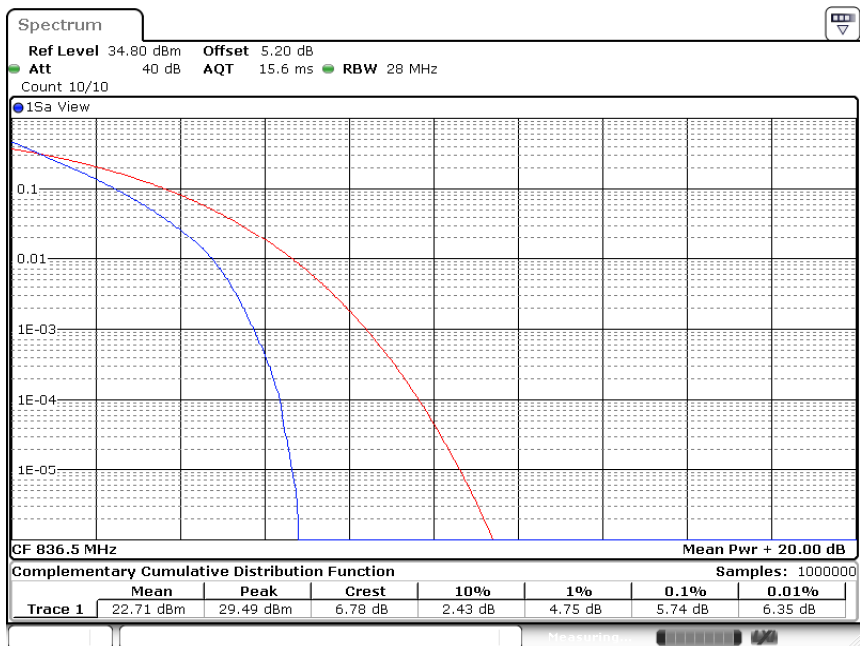
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.90	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.74	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.93	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.62	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.52	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.80	13	PASS

2.2. Test Plots

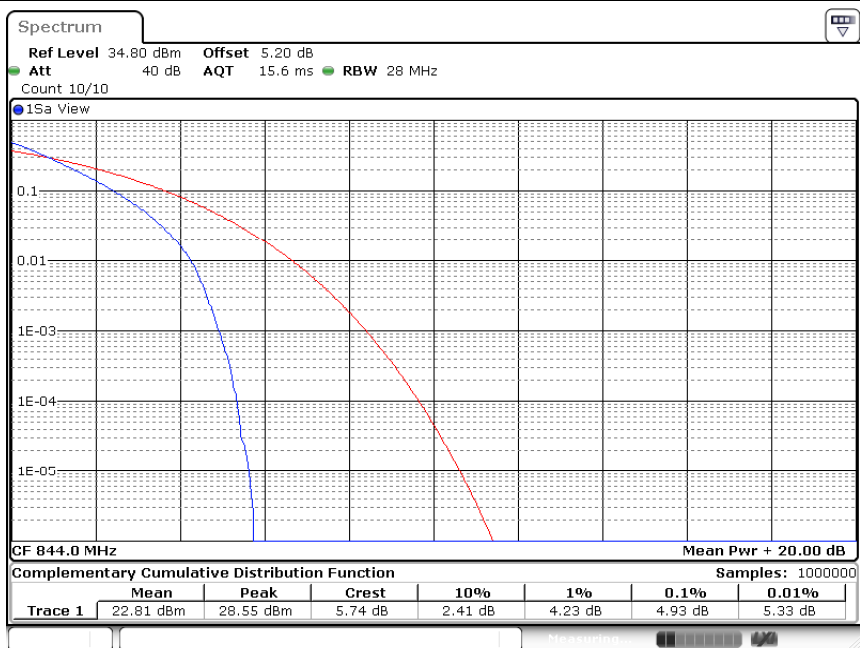


Band5-10MHz-QPSK-20525-50RB#0



Date: 28.SEP.2020 13:06:55

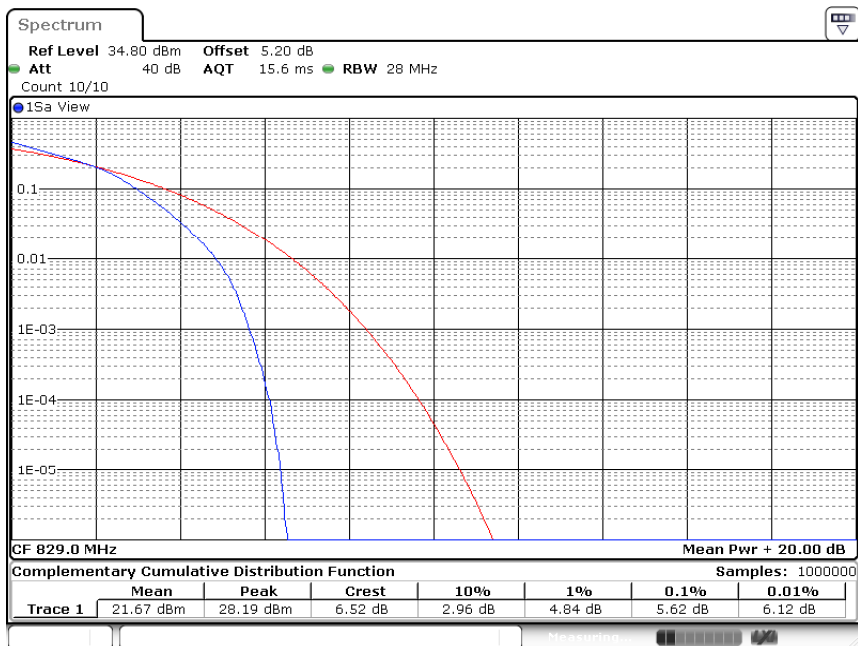
Band5-10MHz-QPSK-20600-50RB#0



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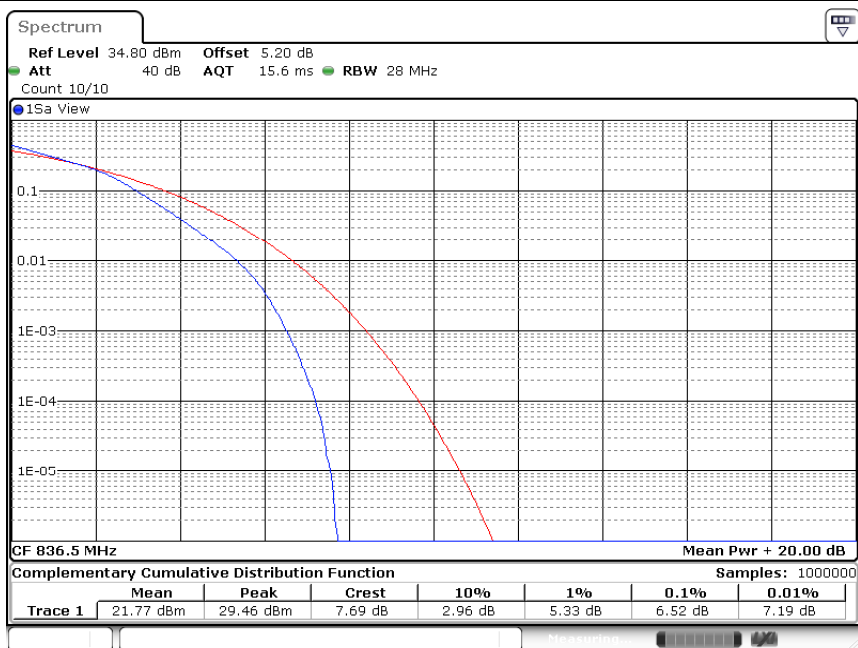


Band5-10MHz-16QAM-20450-50RB#0



Date: 28.SEP.2020 13:06:40

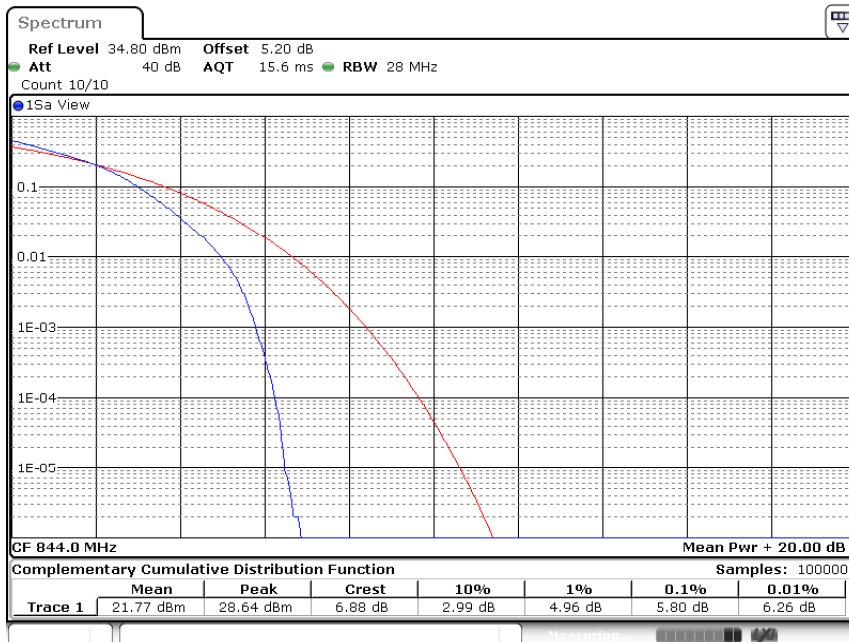
Band5-10MHz-16QAM-20525-50RB#0



Date: 28.SEP.2020 13:07:09



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



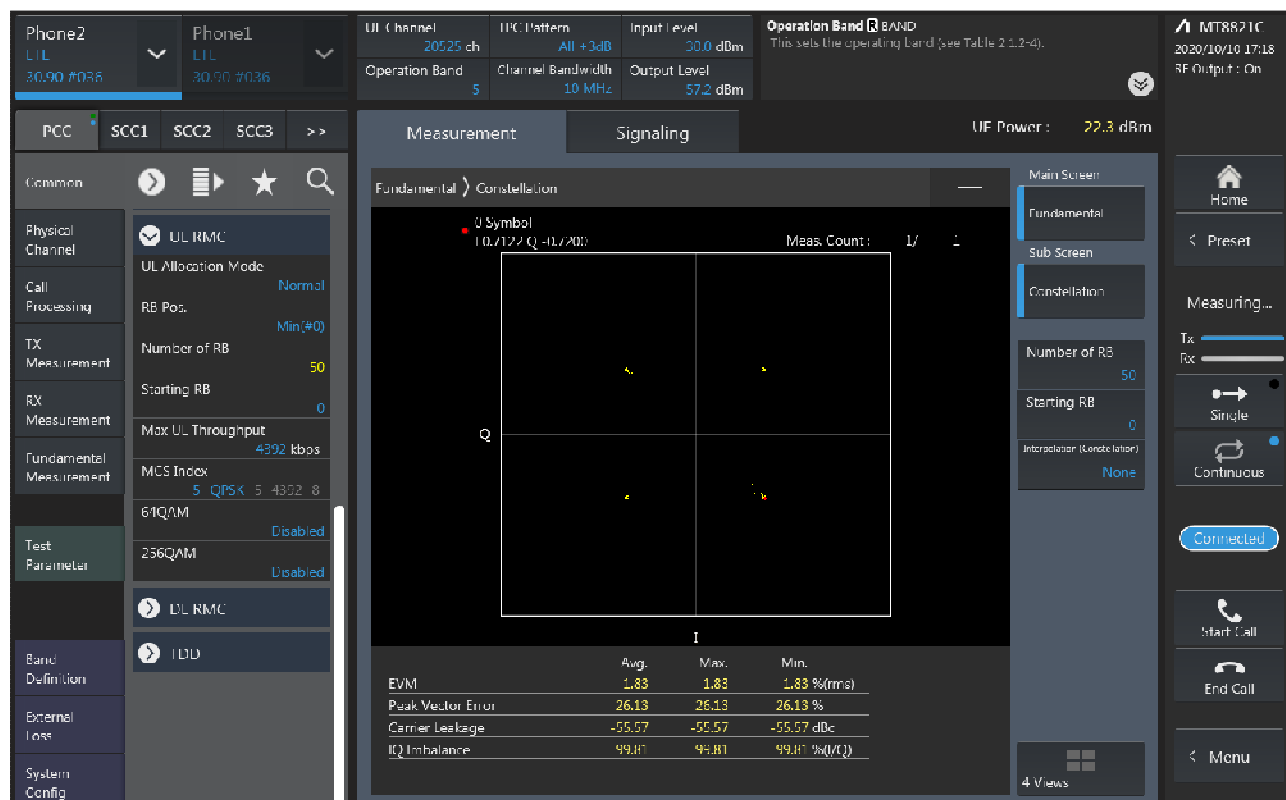
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3. Modulation Characteristics

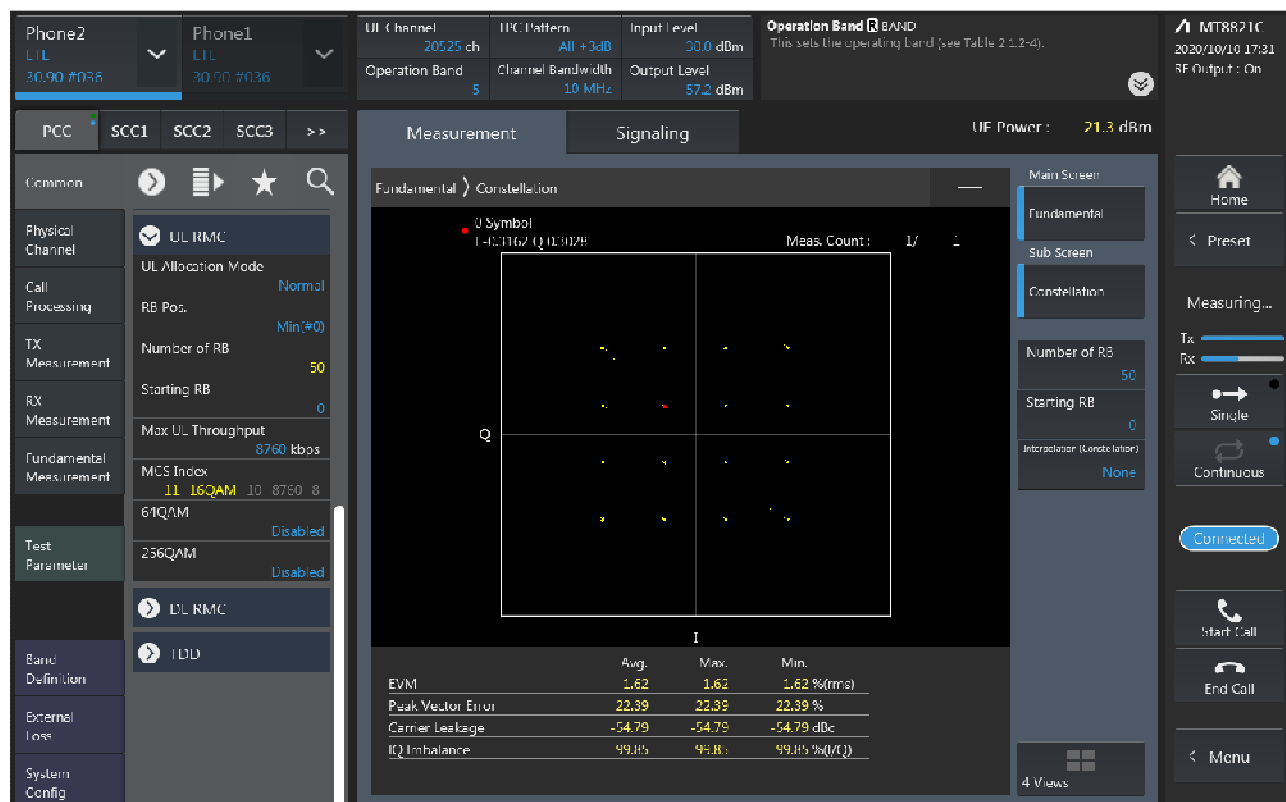
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.293	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.278	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.982	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.982	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	3.000	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.964	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.900	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.930	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.900	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.496	4.900	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.950	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.740	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.891	9.700	PASS

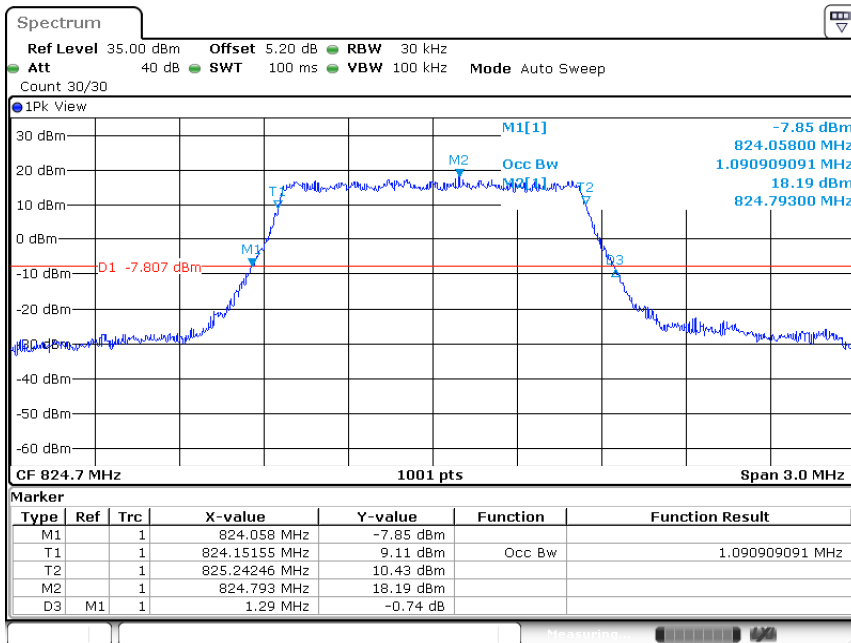


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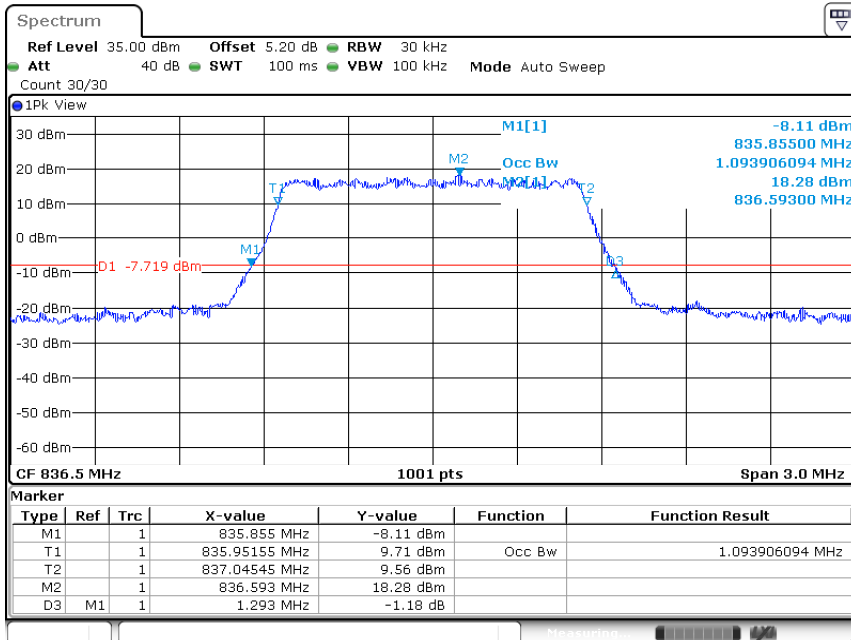
4.2. Test Plots

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



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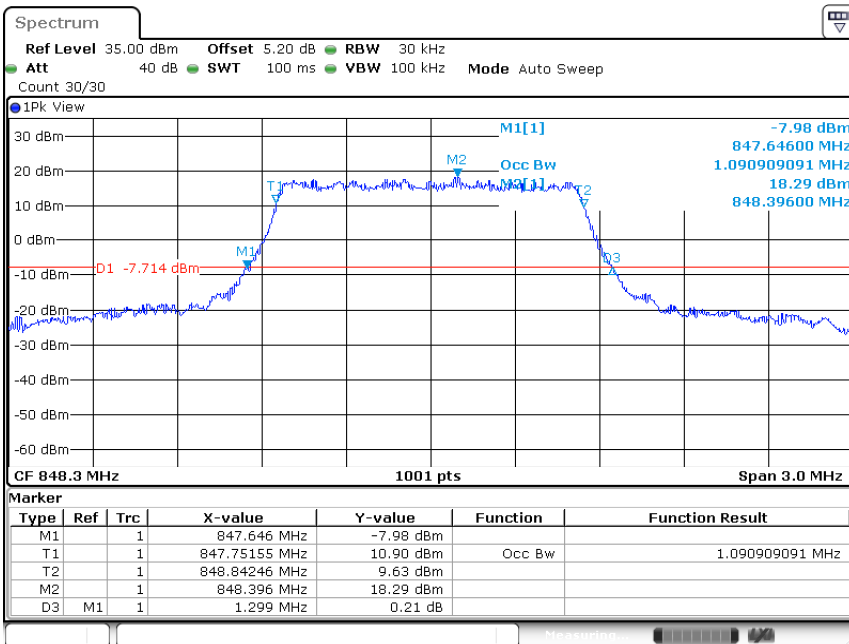
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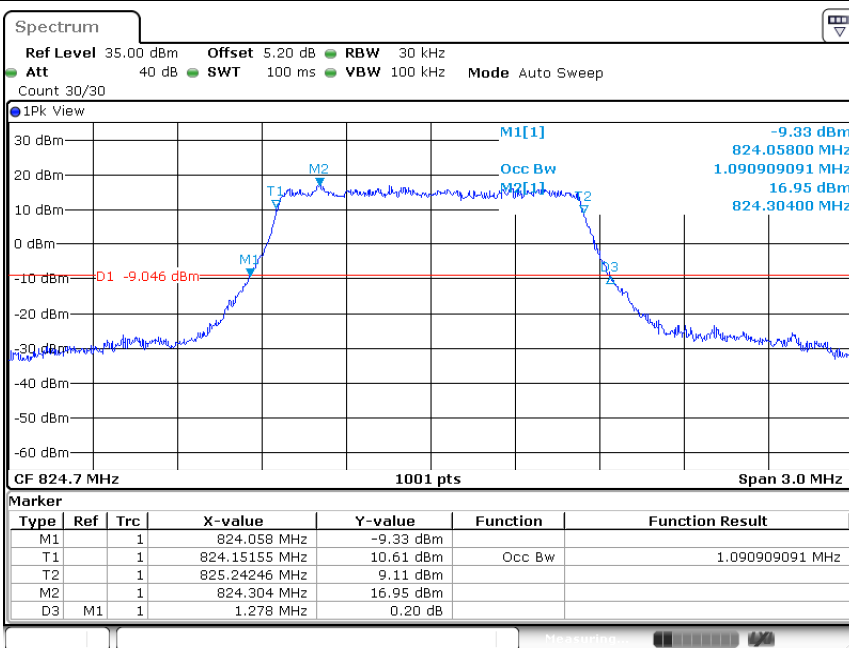


Band5-1.4MHz-QPSK-20643-6RB#0-1.091



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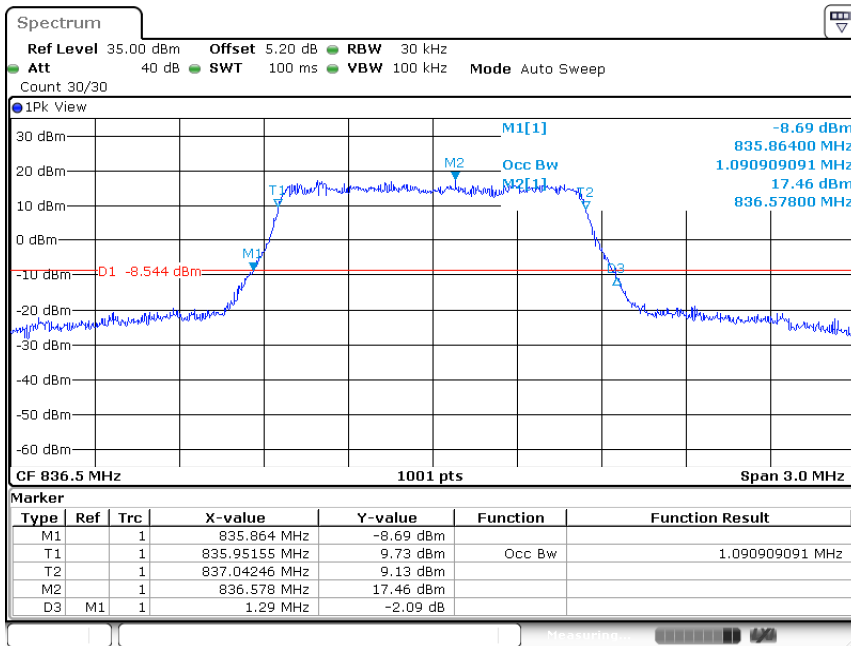
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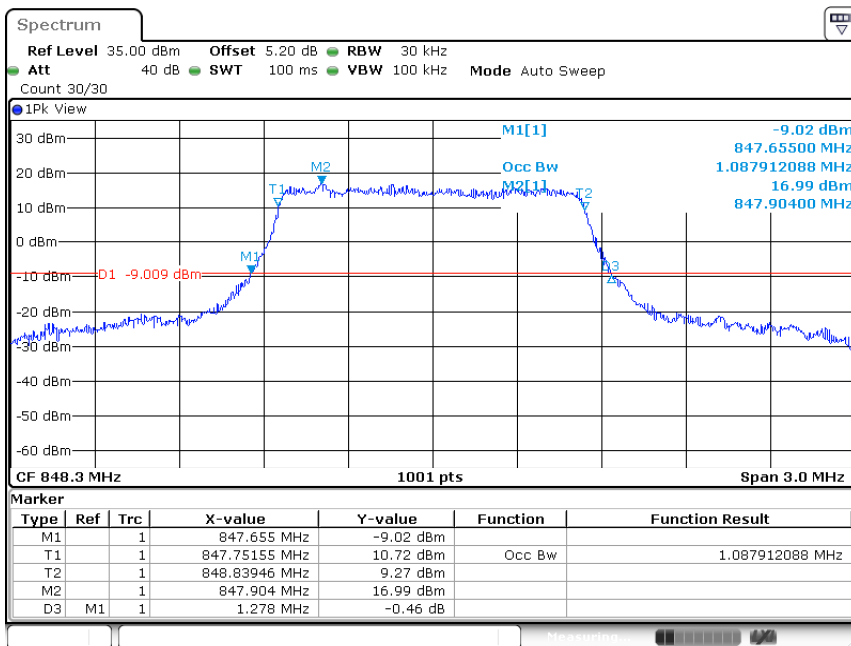


Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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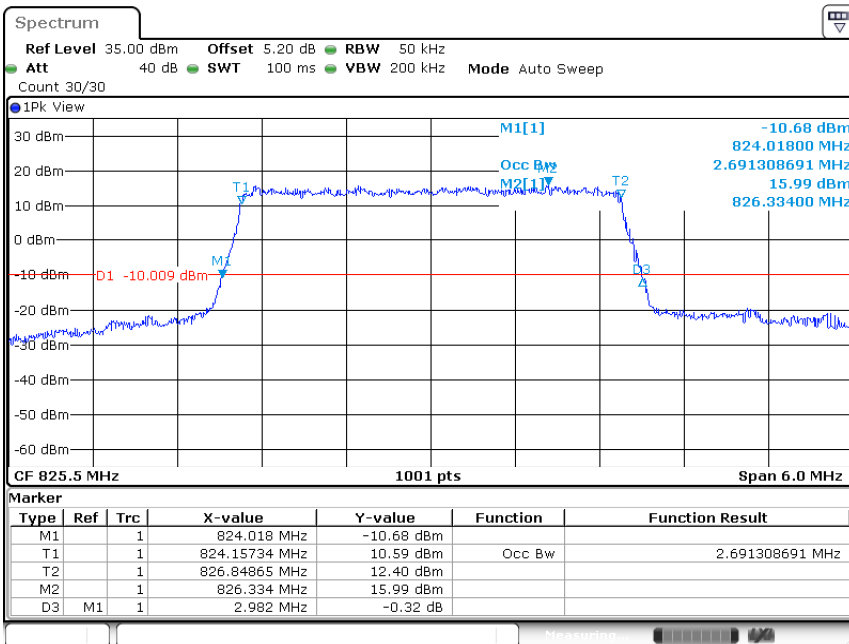
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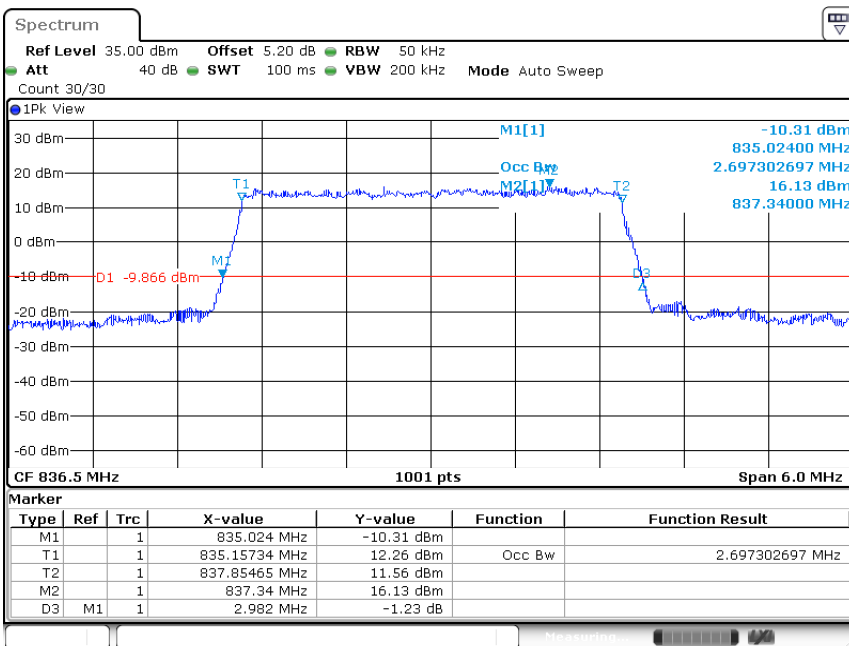


Band5-3MHz-QPSK-20415-15RB#0-2.691



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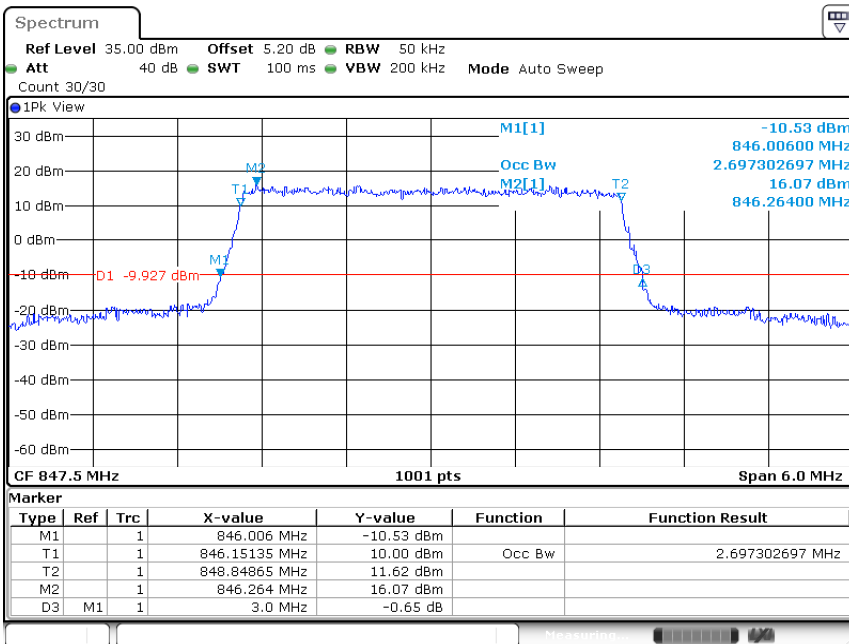
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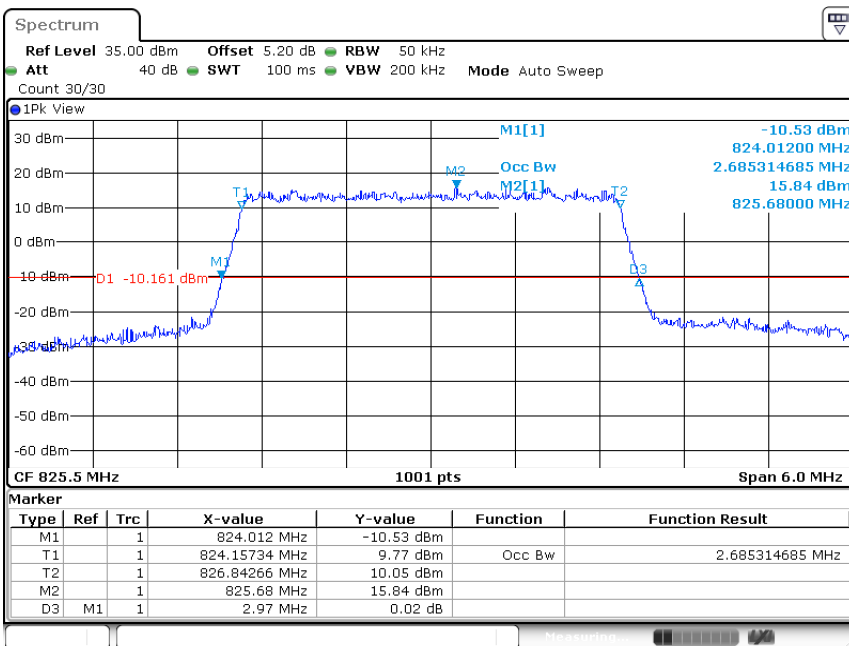


Band5-3MHz-QPSK-20635-15RB#0-2.697



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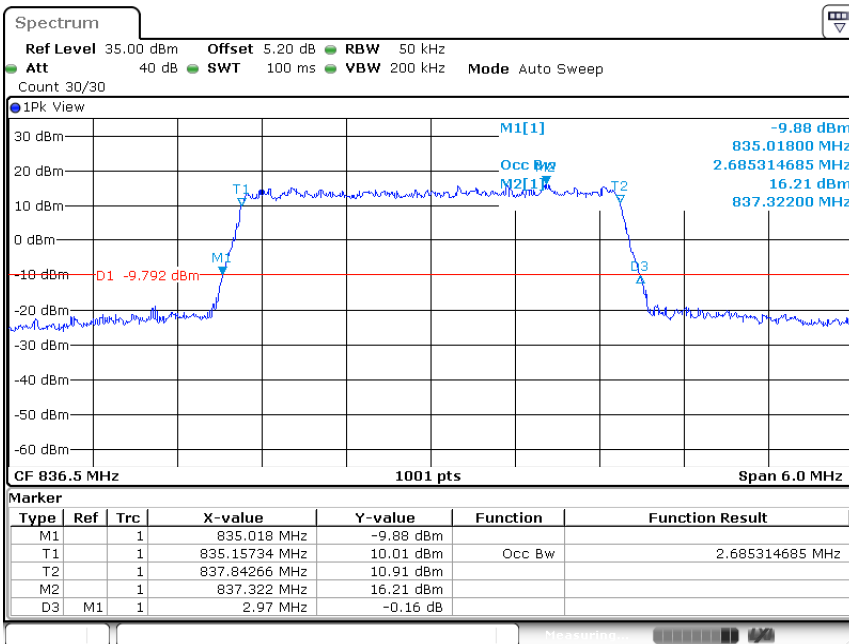
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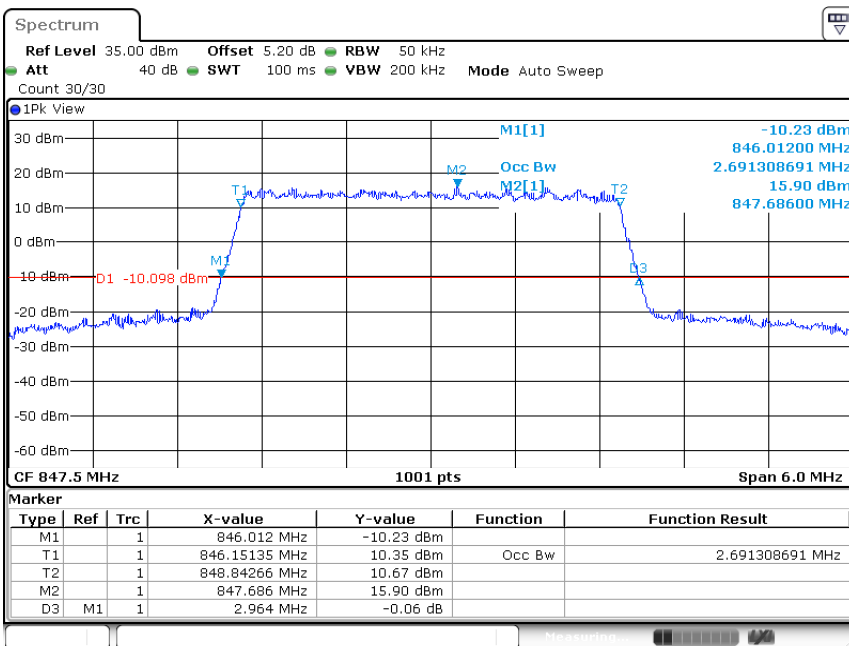


Band5-3MHz-16QAM-20525-15RB#0-2.685



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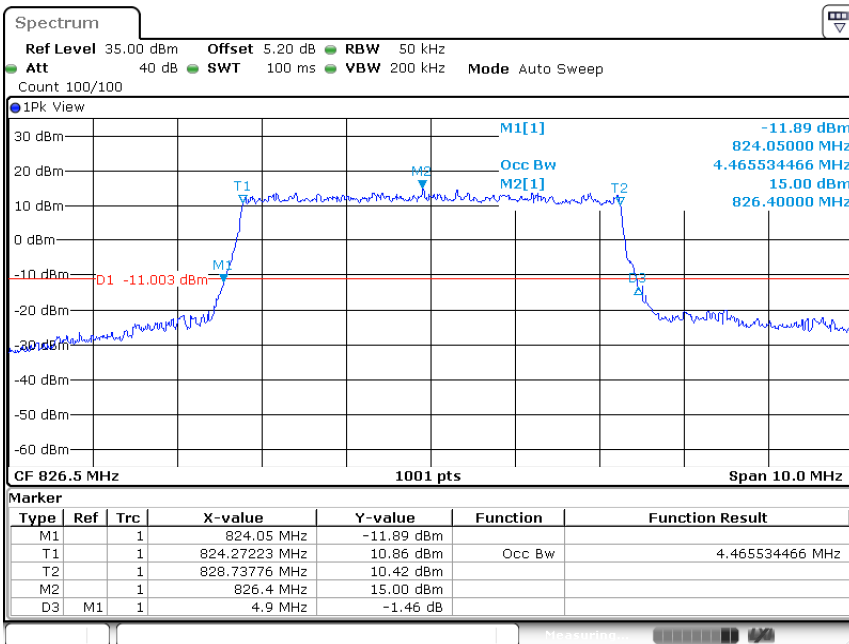
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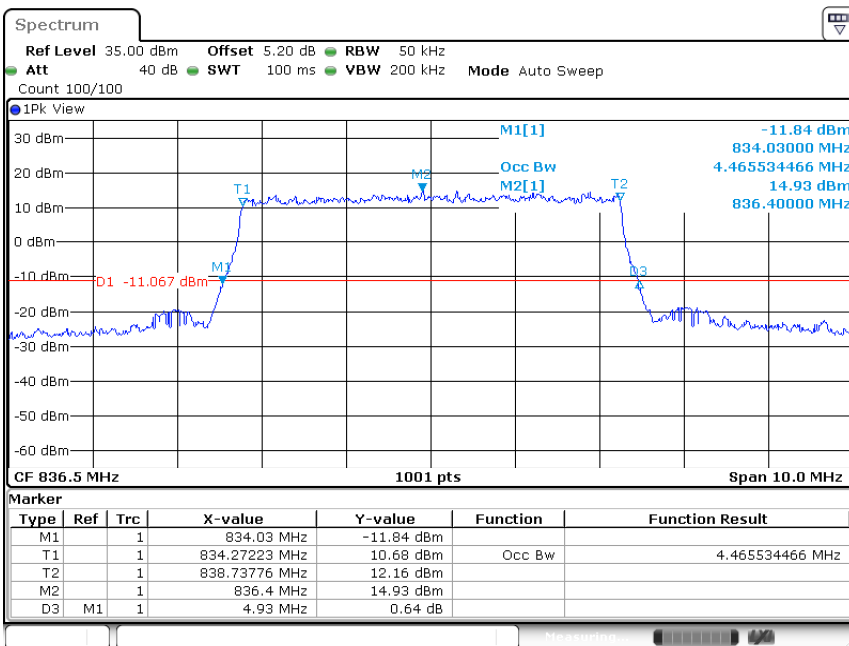


Band5-5MHz-QPSK-20425-25RB#0-4.466



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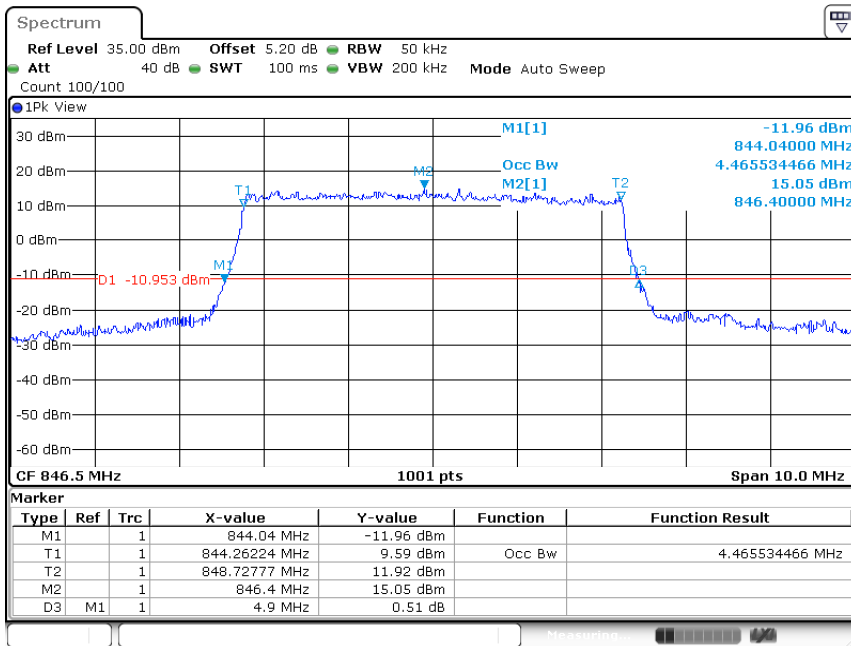
Band5-5MHz-QPSK-20525-25RB#0-4.466



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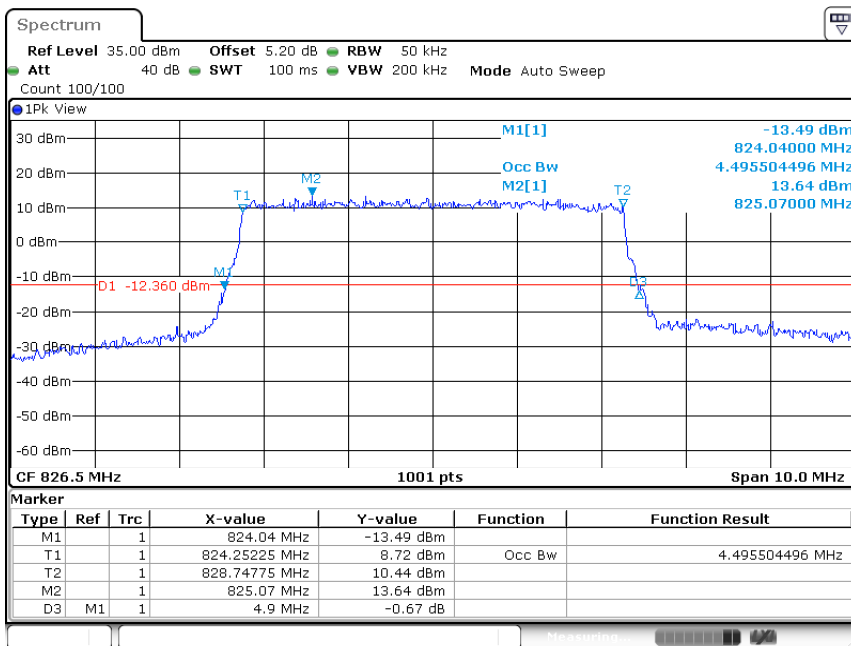


Band5-5MHz-QPSK-20625-25RB#0-4.466



Date: 28.SEP.2020 12:41:16

Band5-5MHz-16QAM-20425-25RB#0-4.496



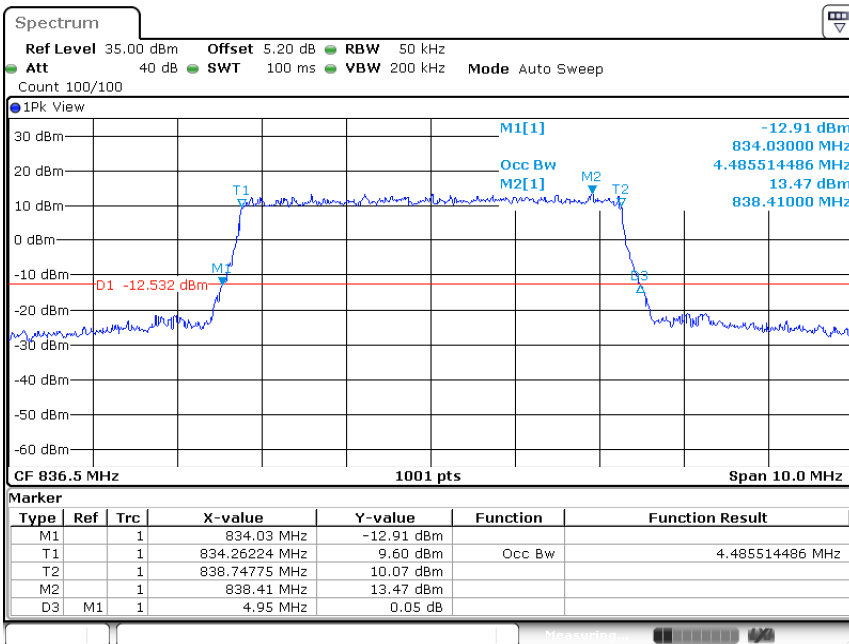
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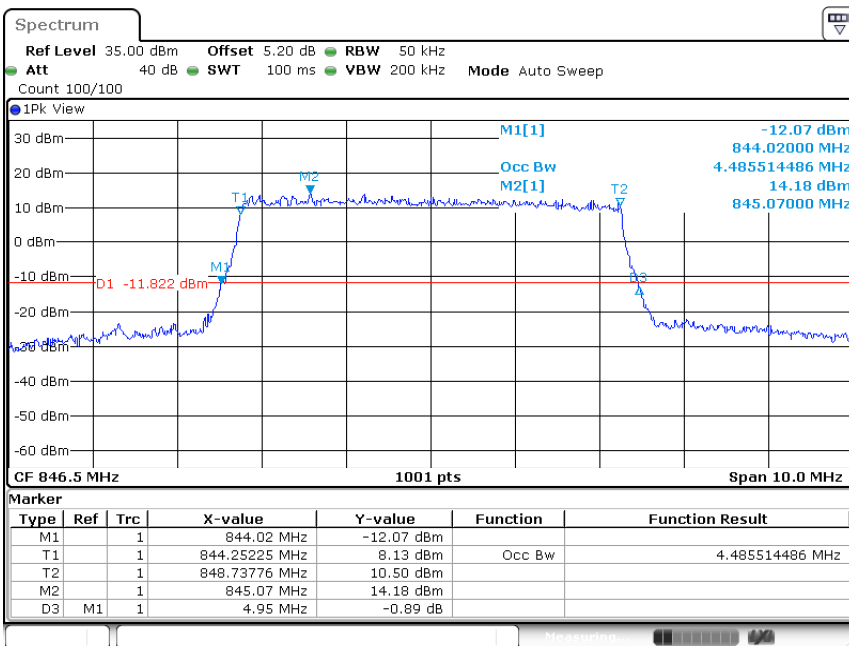
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Band5-5MHz-16QAM-20525-25RB#0-4.486



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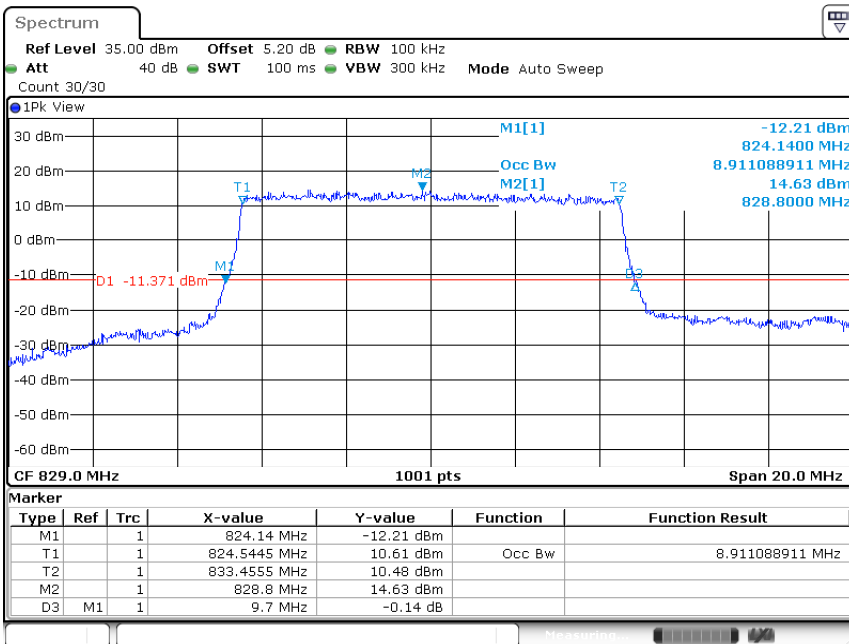
Band5-5MHz-16QAM-20625-25RB#0-4.486



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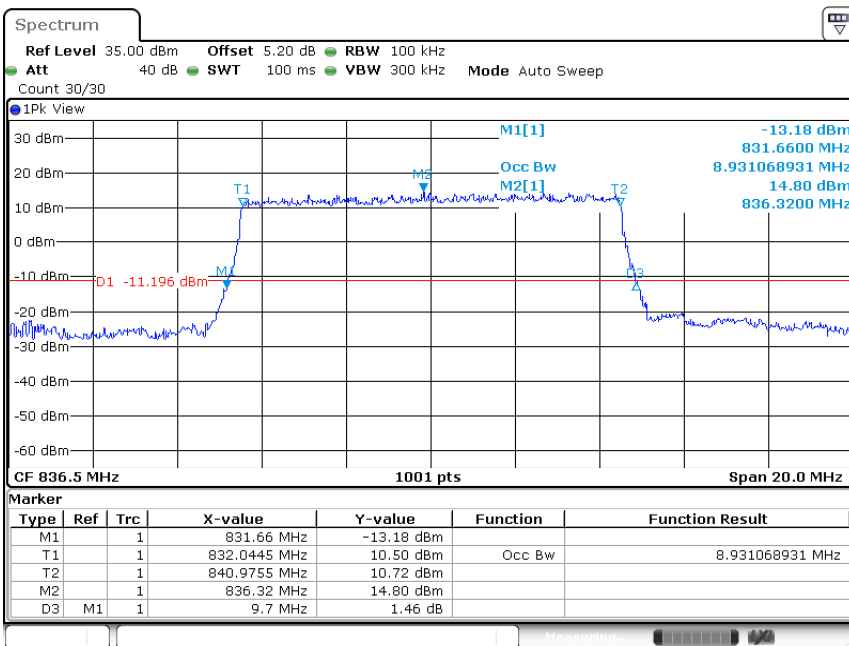


Band5-10MHz-QPSK-20450-50RB#0-8.911



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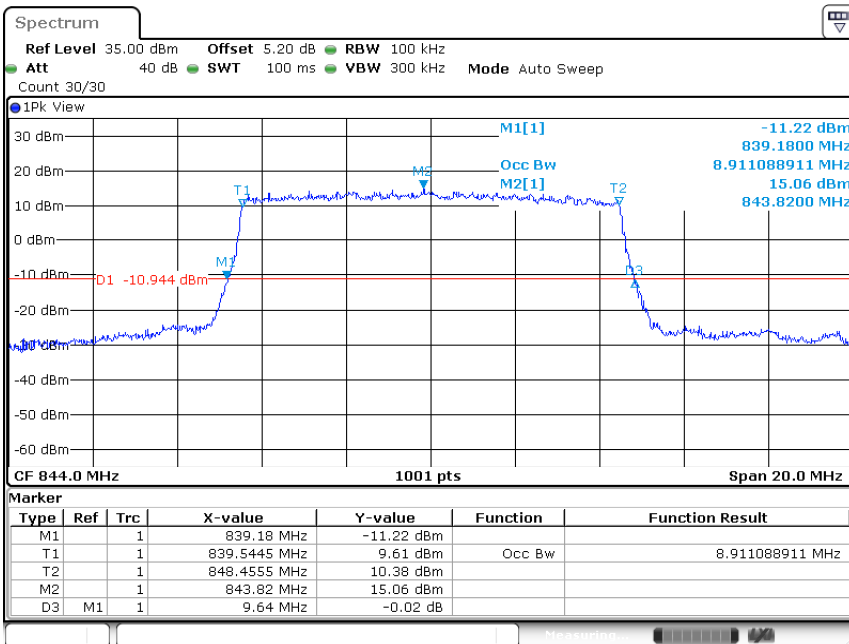
Band5-10MHz-QPSK-20525-50RB#0-8.931



Date: 28.SEP.2020 12:42:31

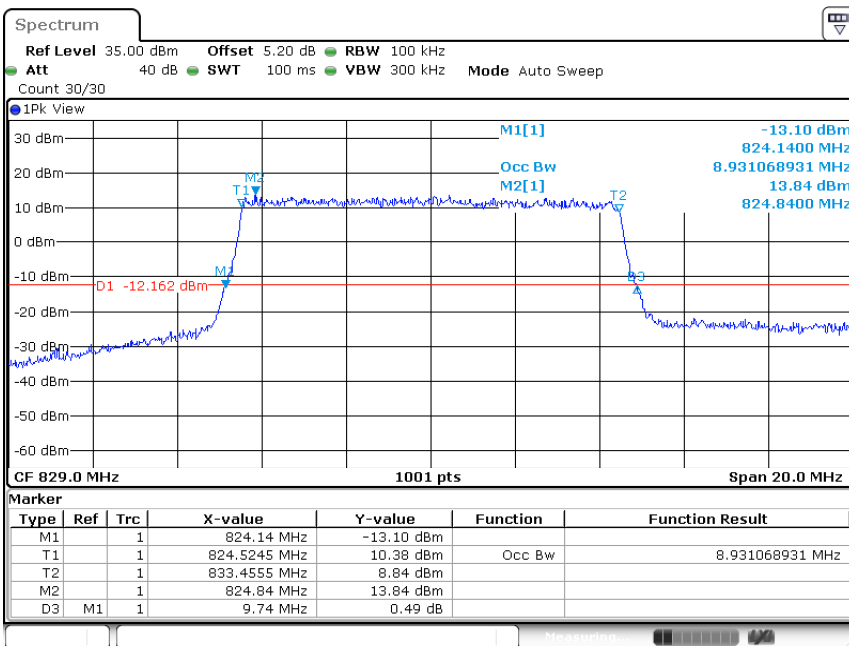


Band5-10MHz-QPSK-20600-50RB#0-8.911



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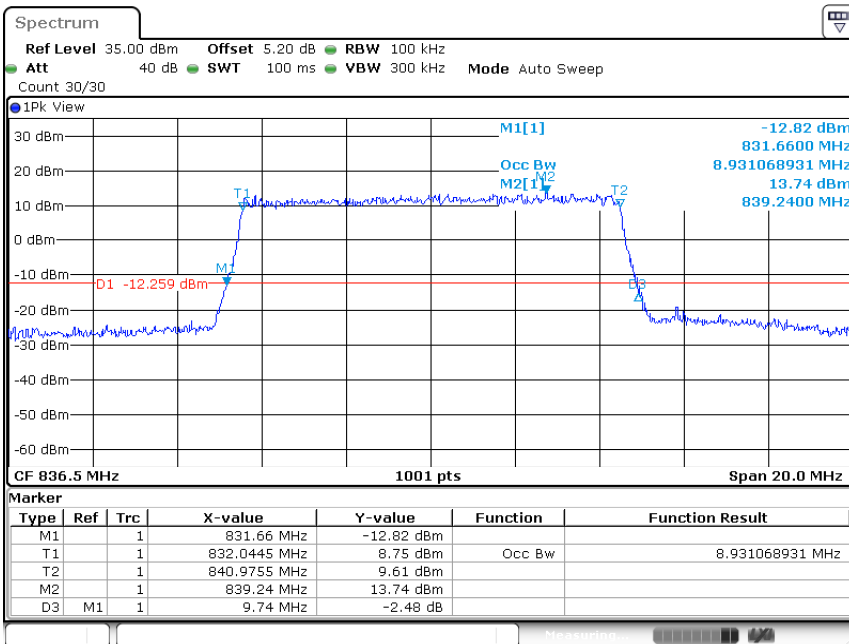
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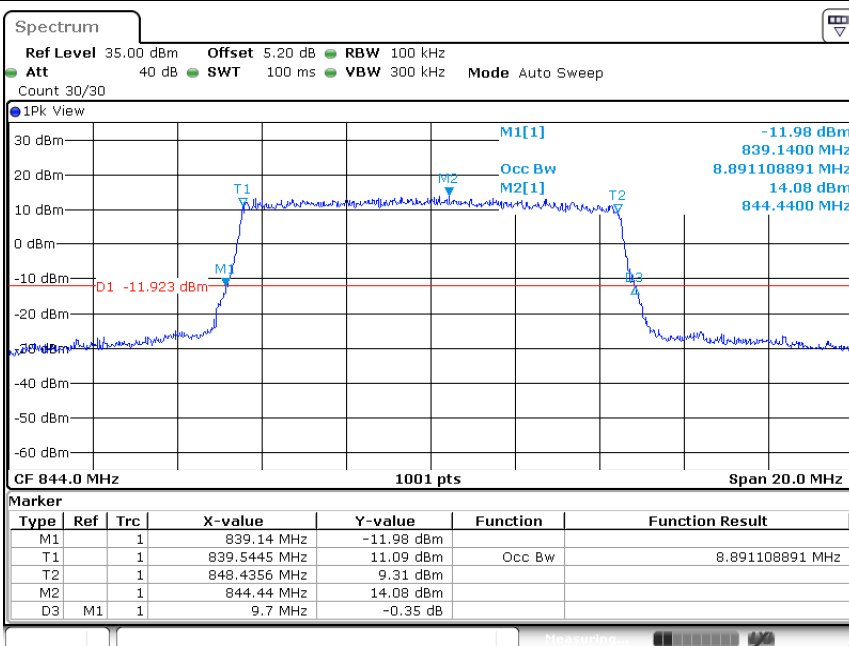


Band5-10MHz-16QAM-20525-50RB#0-8.931



Date: 28.SEP.2020 12:42:47

Band5-10MHz-16QAM-20600-50RB#0-8.891

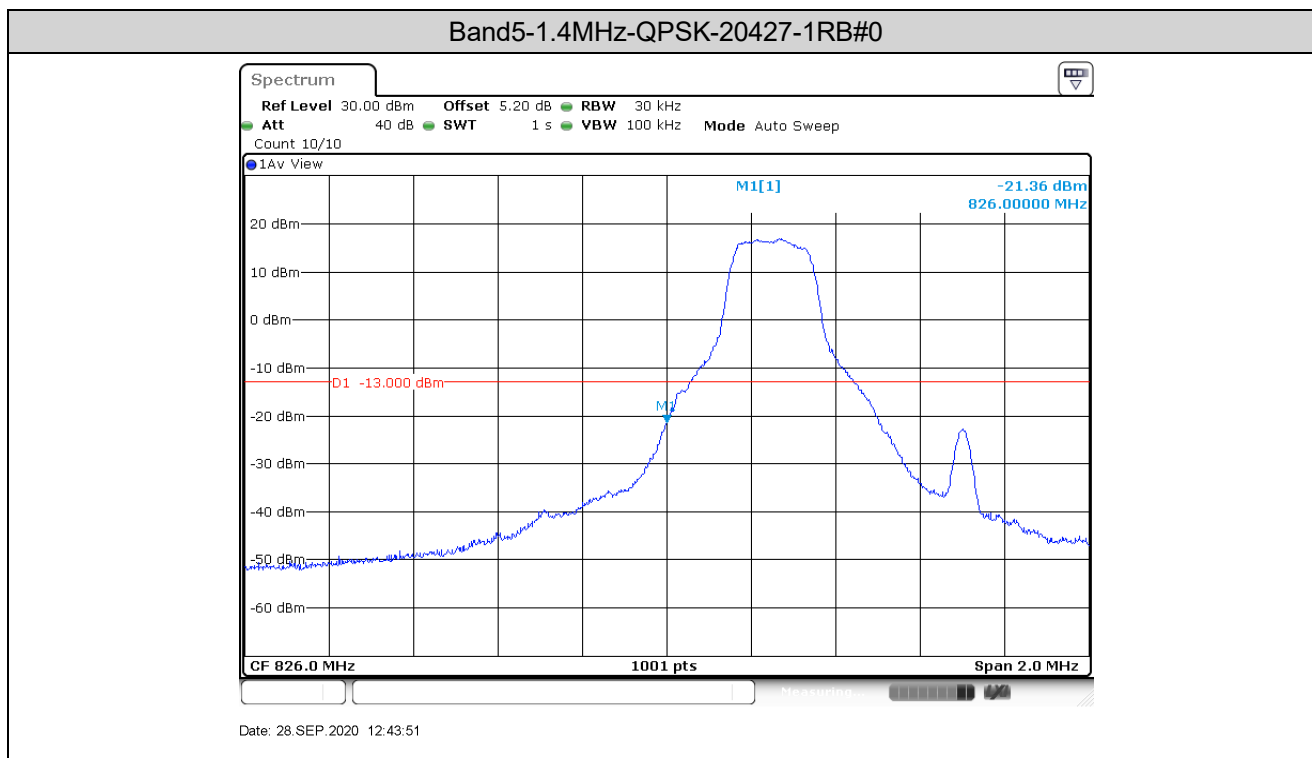


Date: 28.SEP.2020 12:43:19



5. Band Edge Compliance

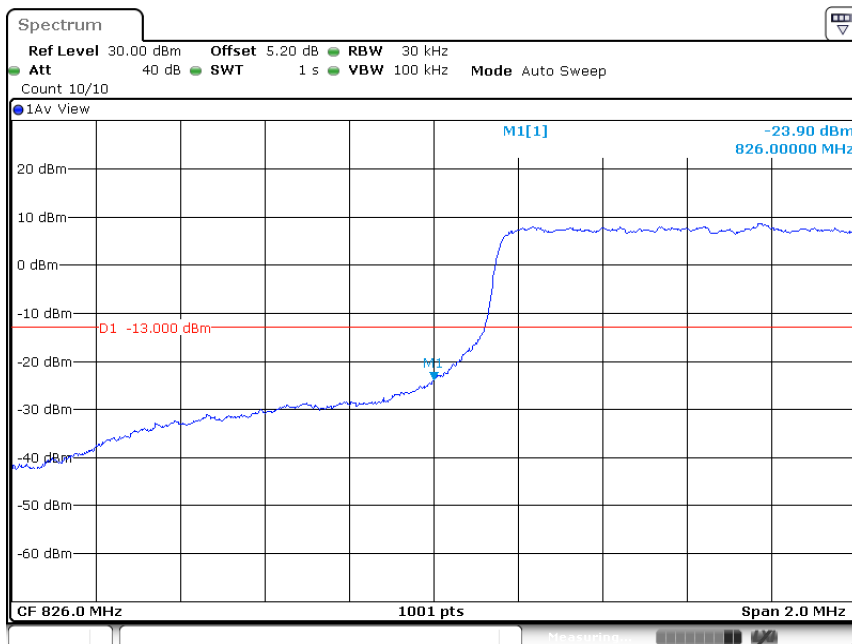
5.1. Test Plots



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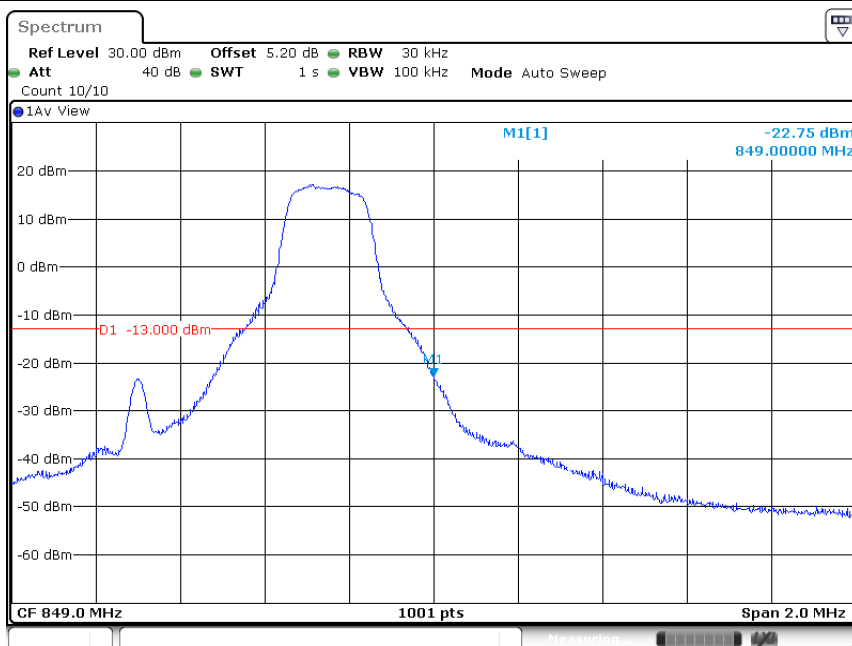
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Band5-1.4MHz-QPSK-20427-6RB#0



Date: 28.SEP.2020 12:44:38

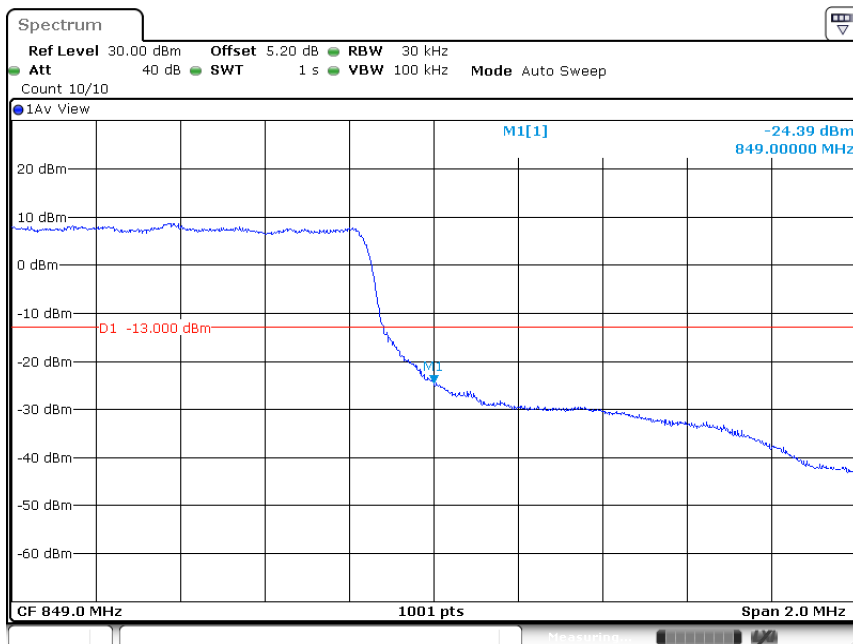
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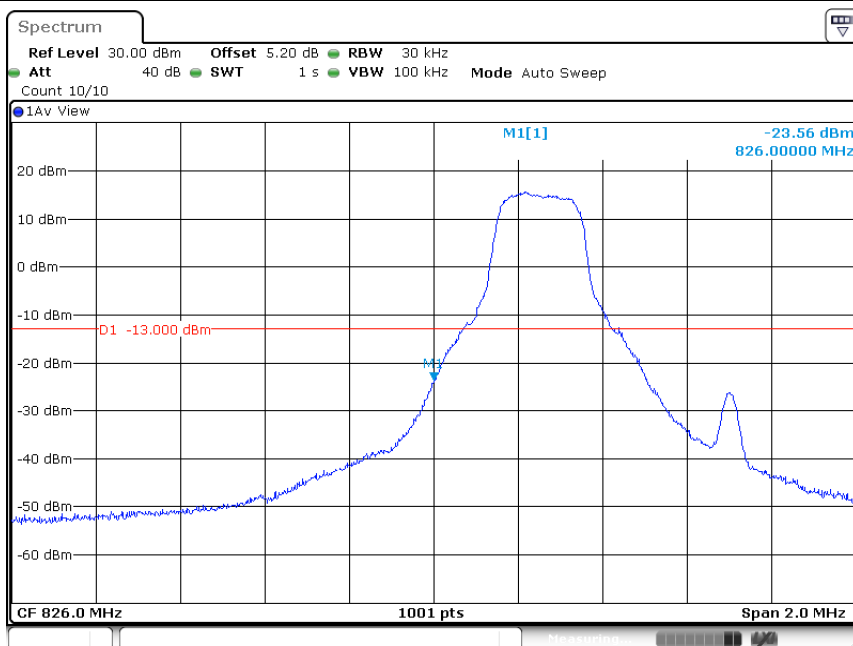


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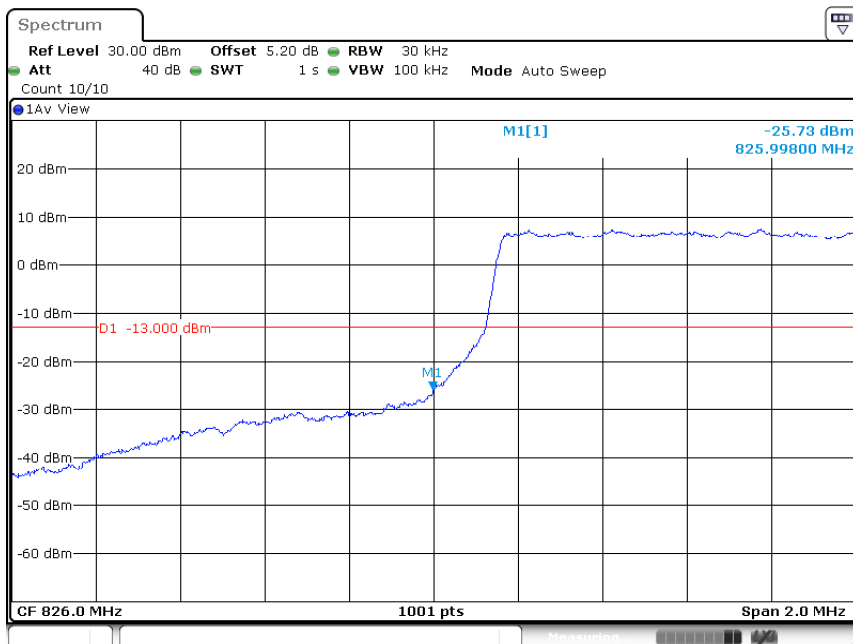
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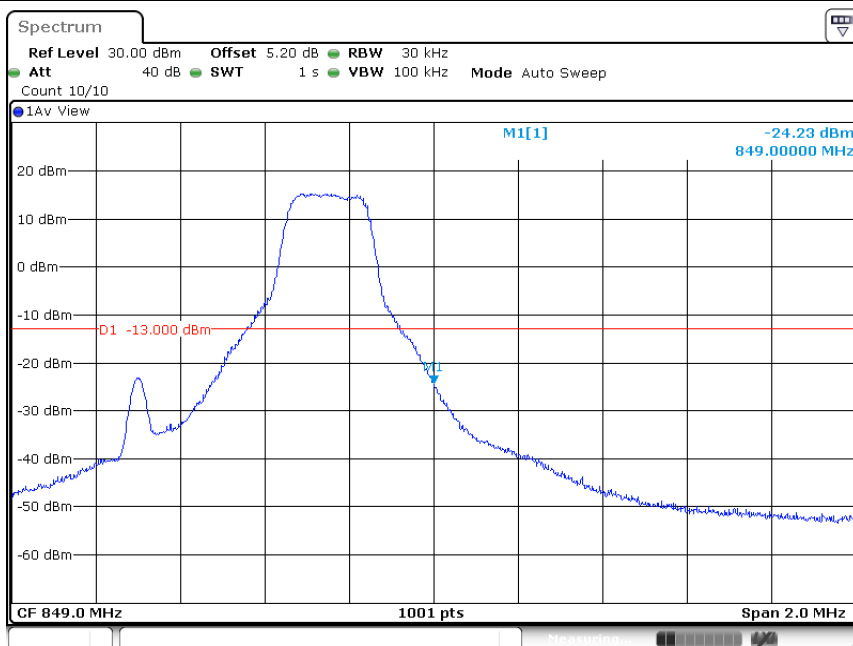


Band5-1.4MHz-16QAM-20427-6RB#0



Date: 28.SEP.2020 12:45:01

Band5-1.4MHz-16QAM-20643-1RB#5

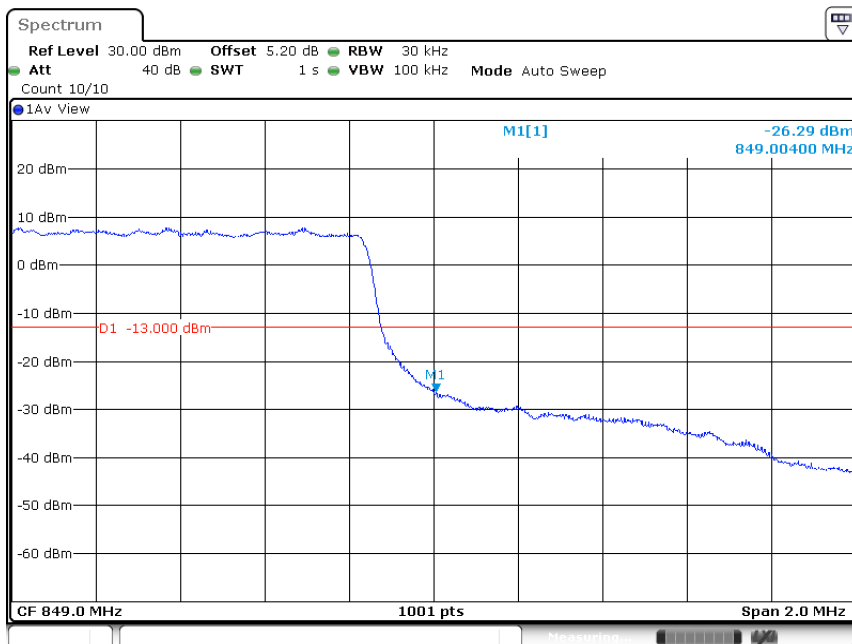


Date: 28.SEP.2020 12:45:57



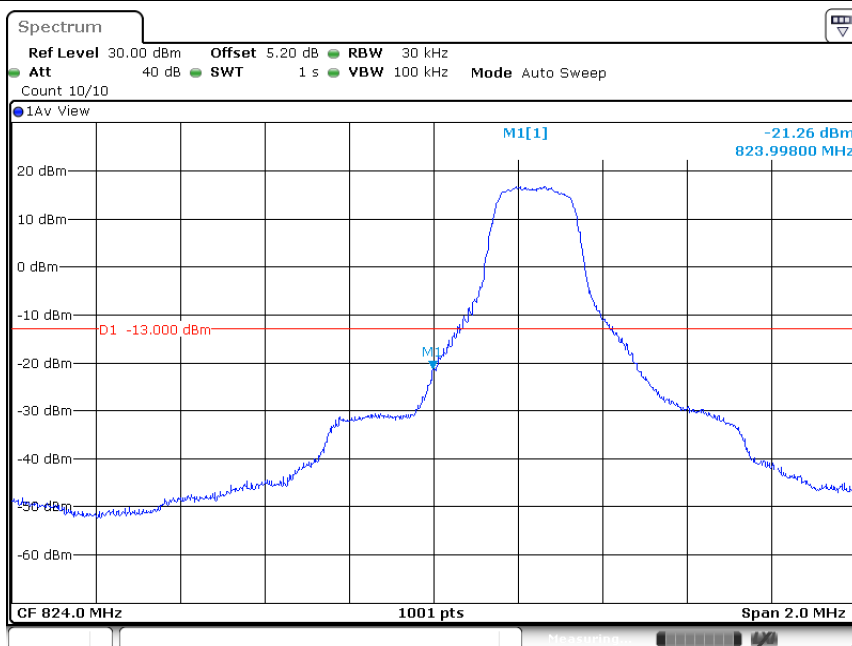
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Band5-1.4MHz-16QAM-20643-6RB#0



Date: 28.SEP.2020 12:46:46

Band5-3MHz-QPSK-20415-1RB#0



Date: 28.SEP.2020 12:47:18



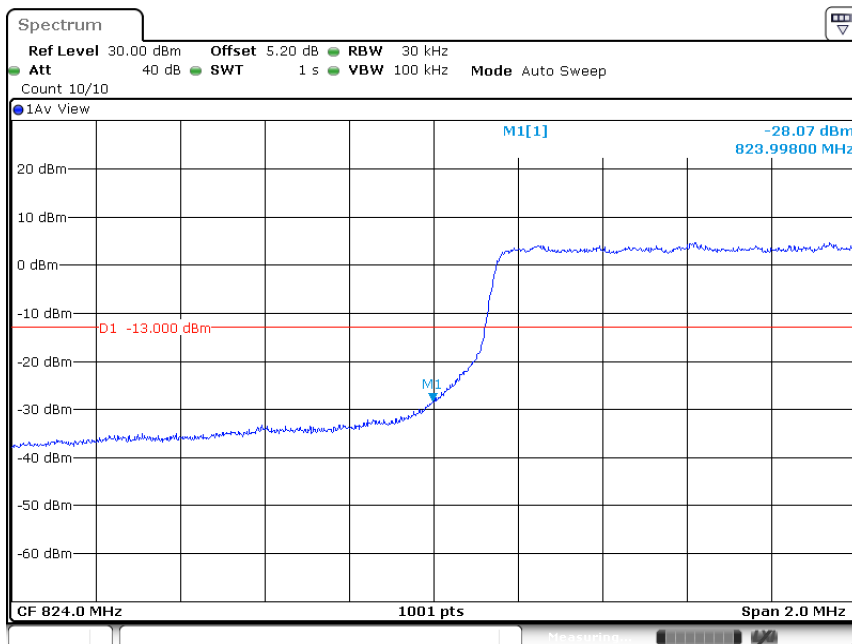
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory.

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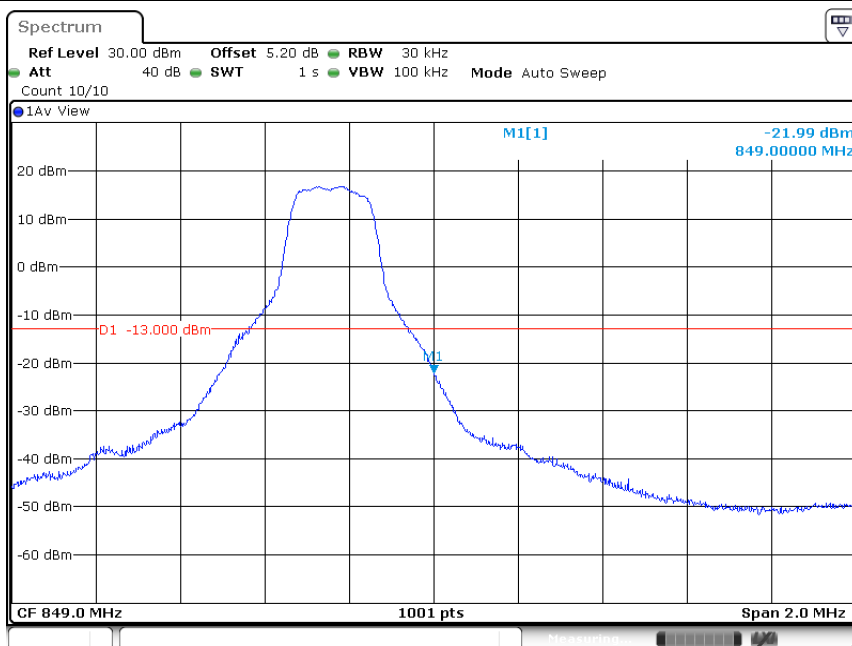
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中国·深圳·科技园中区M-10栋一号厂房	邮编: 518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com

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



Date: 28.SEP.2020 12:48:05

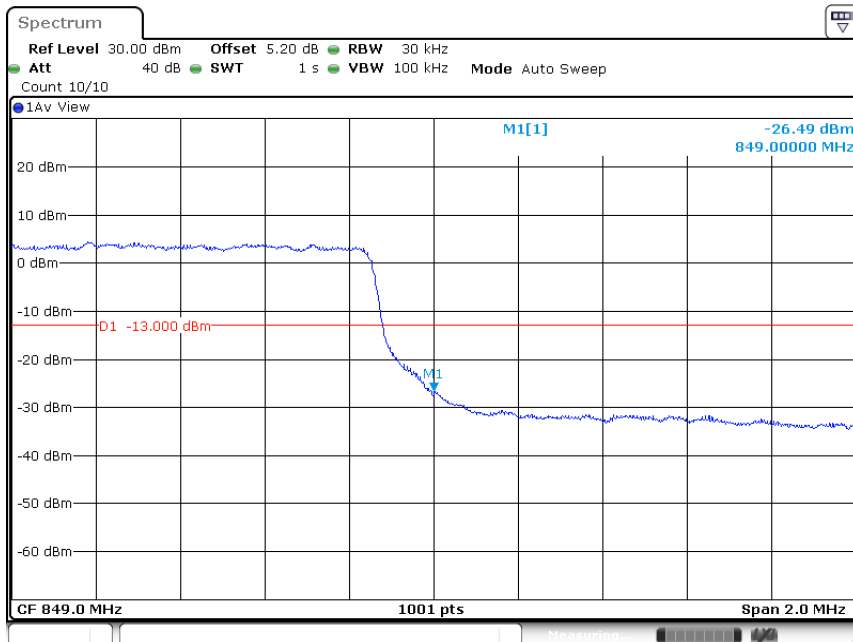
Band5-3MHz-QPSK-20635-1RB#14



Date: 28.SEP.2020 12:49:00

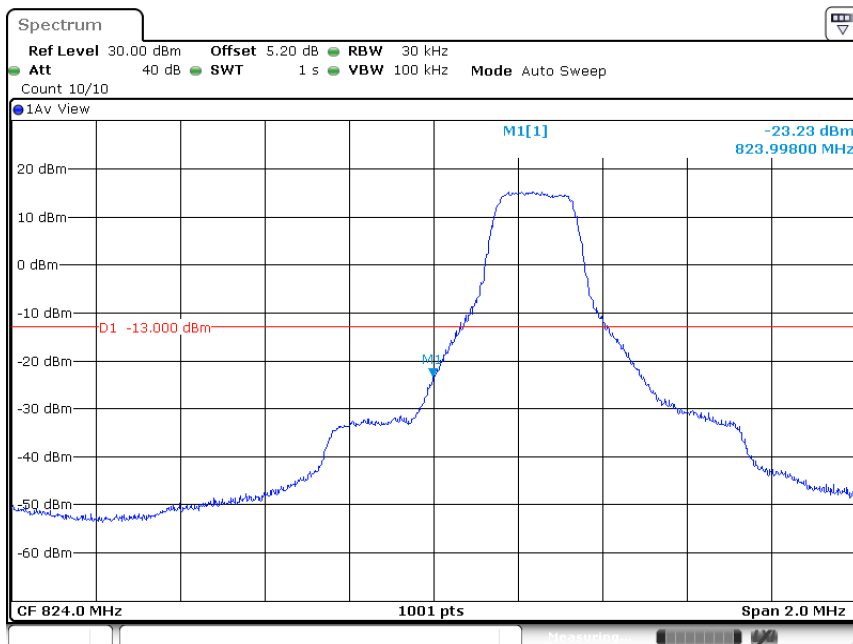


Band5-3MHz-QPSK-20635-15RB#0



Date: 28.SEP.2020 12:49:47

Band5-3MHz-16QAM-20415-1RB#0



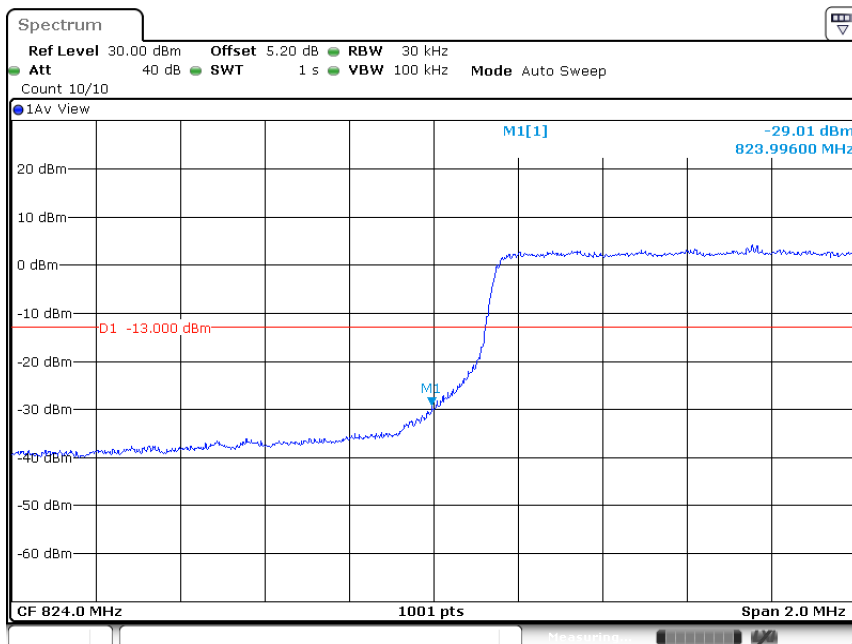
Date: 28.SEP.2020 12:47:41



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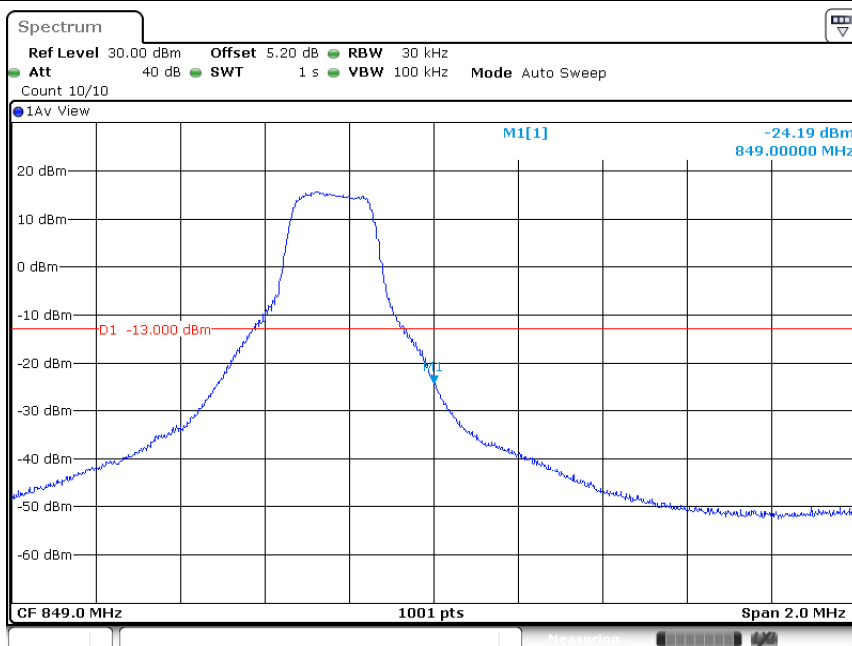
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Band5-3MHz-16QAM-20415-15RB#0



Date: 28.SEP.2020 12:48:28

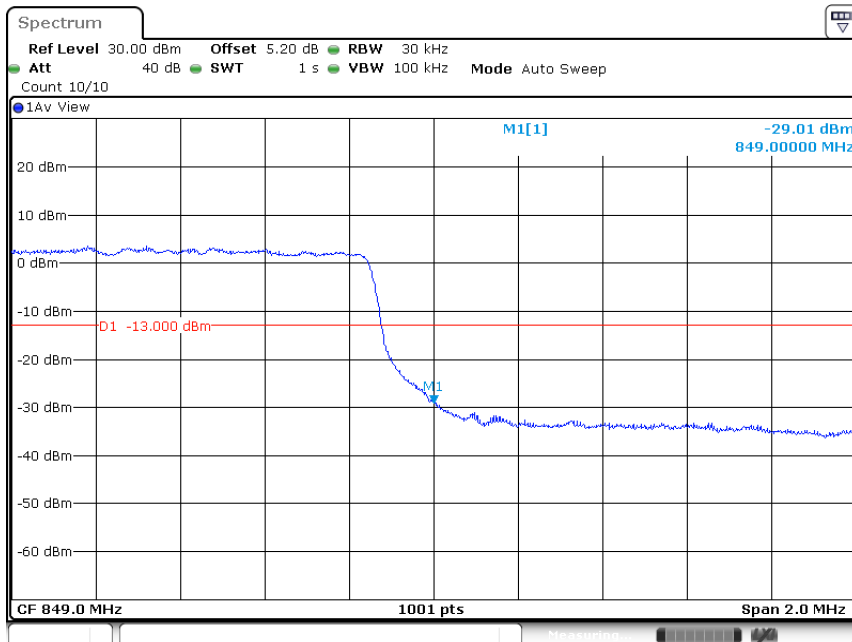
Band5-3MHz-16QAM-20635-1RB#14



Date: 28.SEP.2020 12:49:23

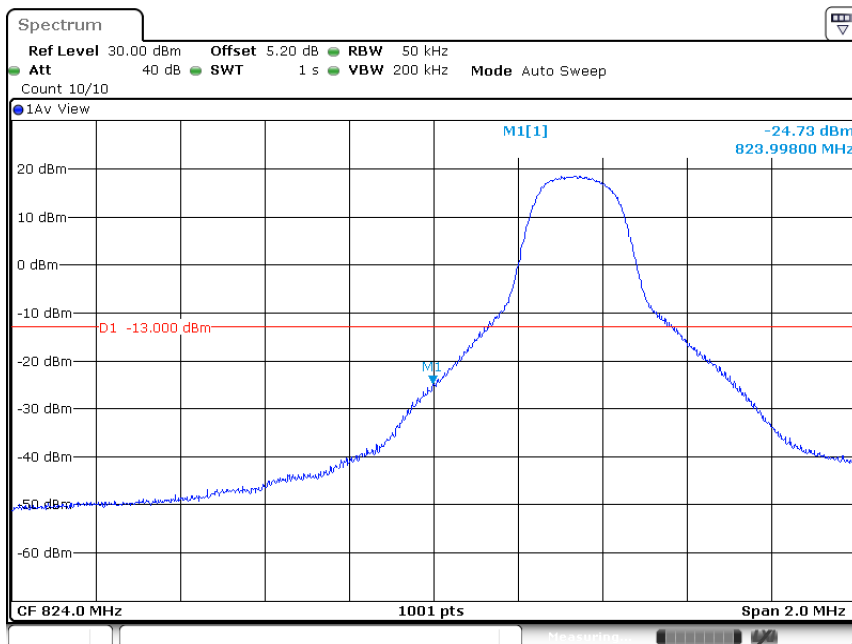


Band5-3MHz-16QAM-20635-15RB#0



Date: 28.SEP.2020 12:50:10

Band5-5MHz-QPSK-20425-1RB#0



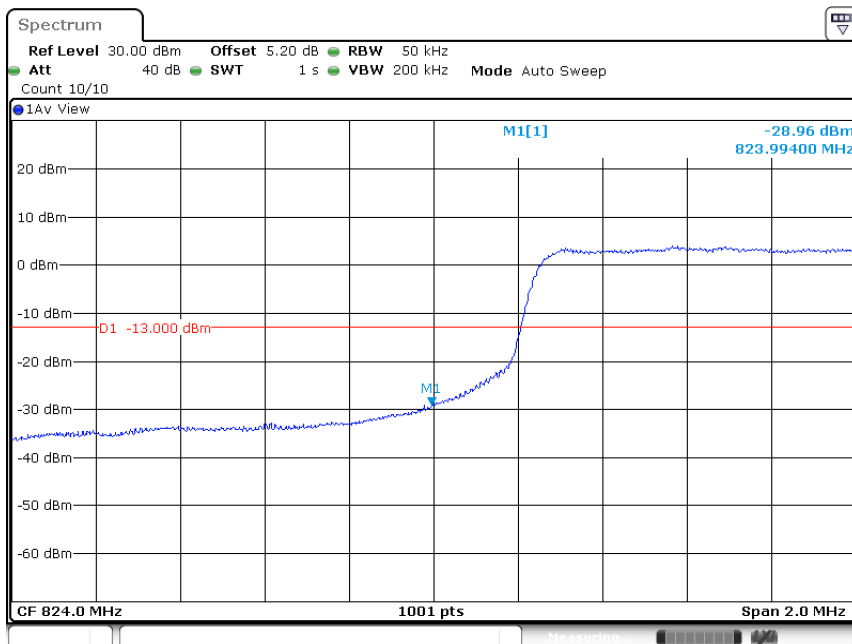
Date: 28.SEP.2020 12:50:42



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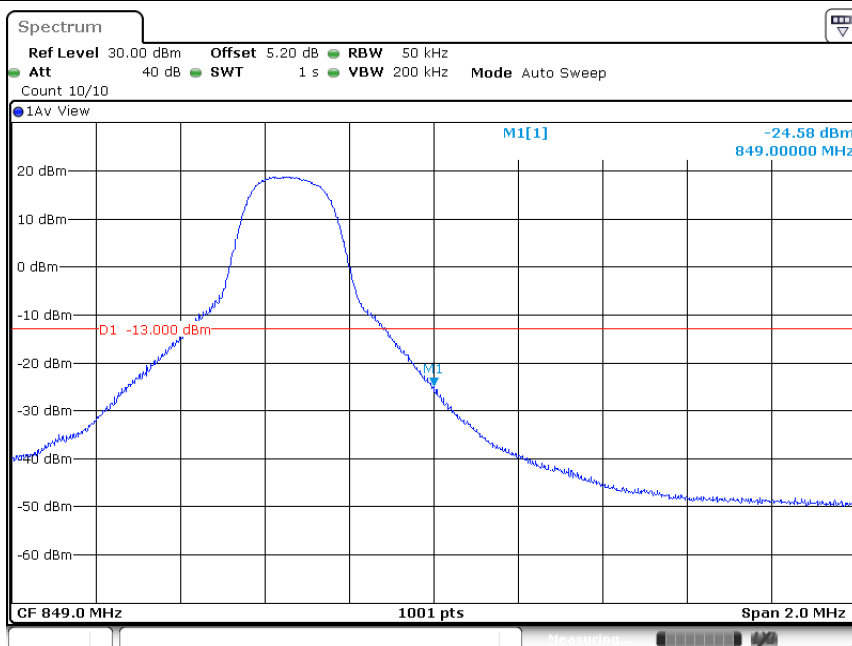
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Band5-5MHz-QPSK-20425-25RB#0



Date: 28.SEP.2020 12:51:29

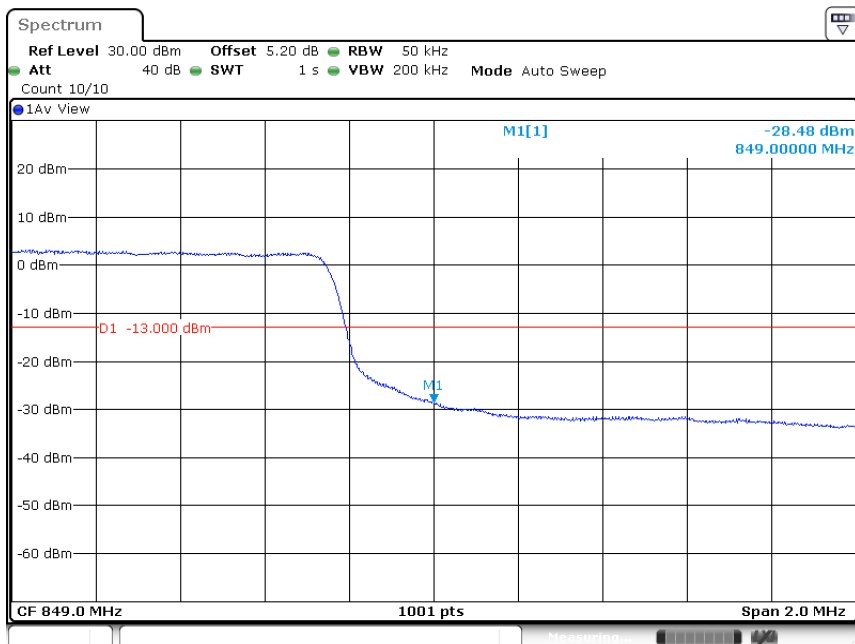
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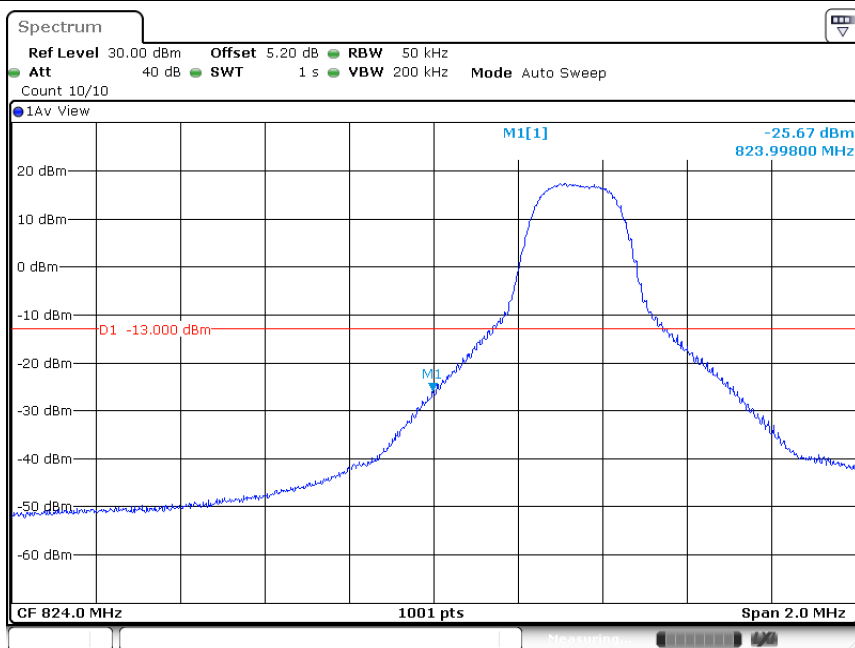


Band5-5MHz-QPSK-20625-25RB#0



Date: 28.SEP.2020 12:53:10

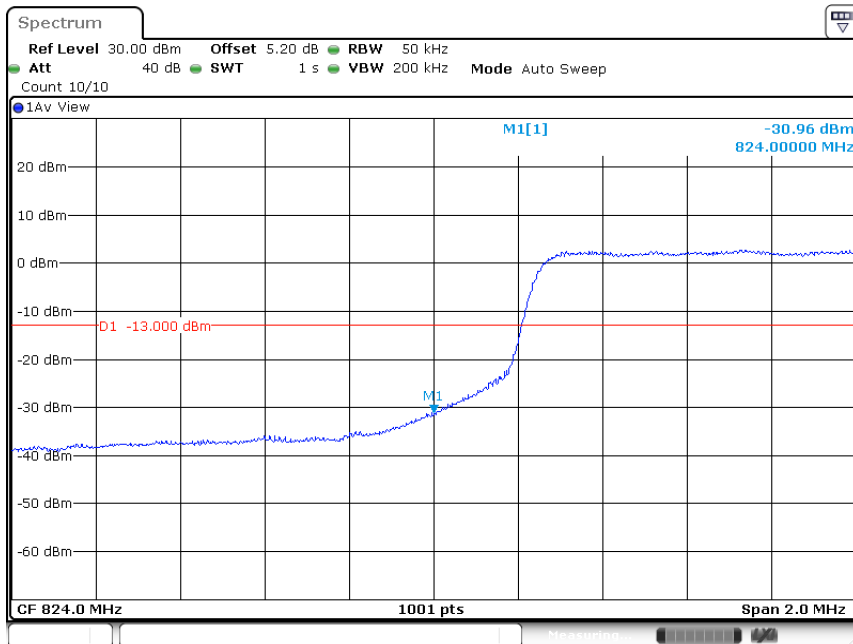
Band5-5MHz-16QAM-20425-1RB#0



Date: 28.SEP.2020 12:51:05

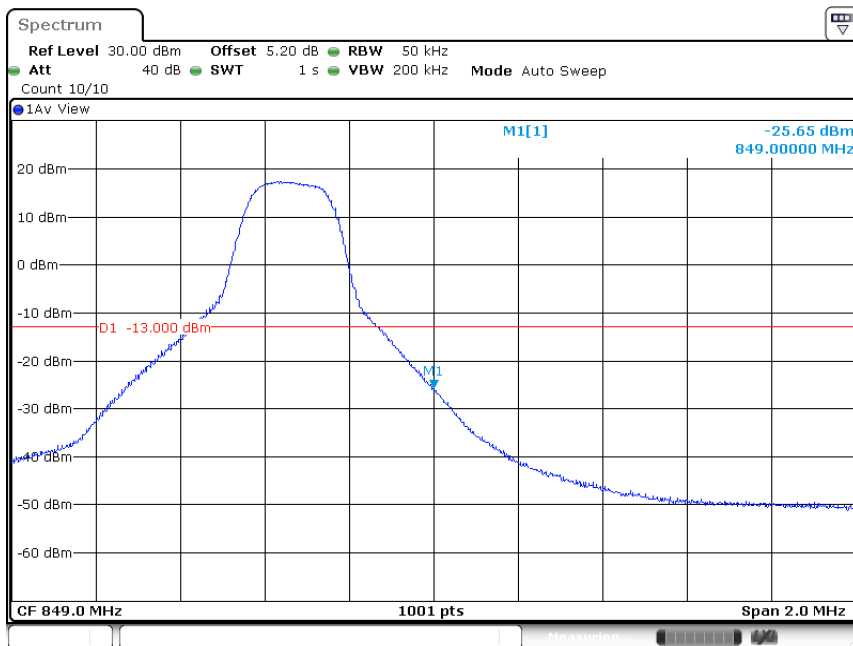


Band5-5MHz-16QAM-20425-25RB#0



Date: 28.SEP.2020 12:51:52

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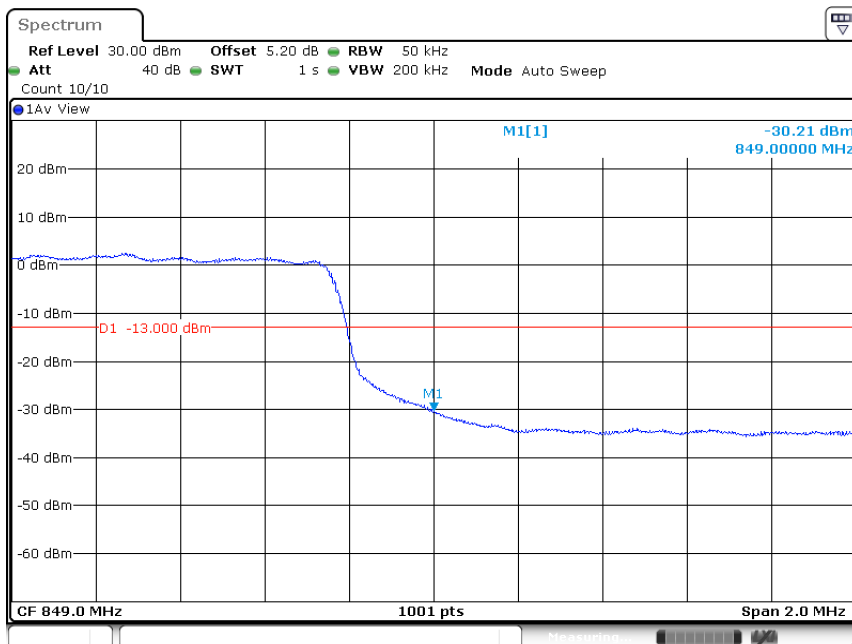
Date: 28.SEP.2020 12:52:47



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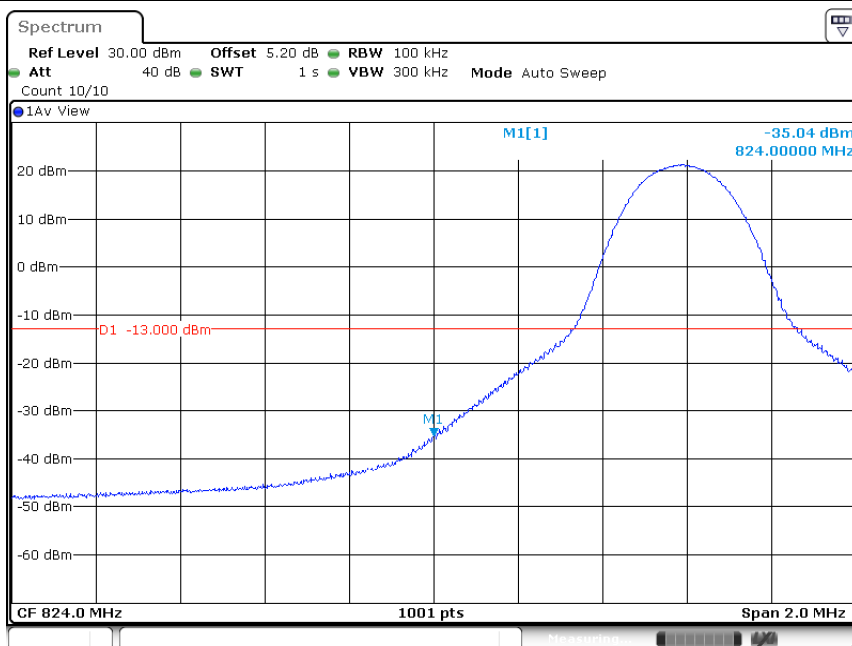
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Band5-5MHz-16QAM-20625-25RB#0



Date: 28.SEP.2020 12:53:34

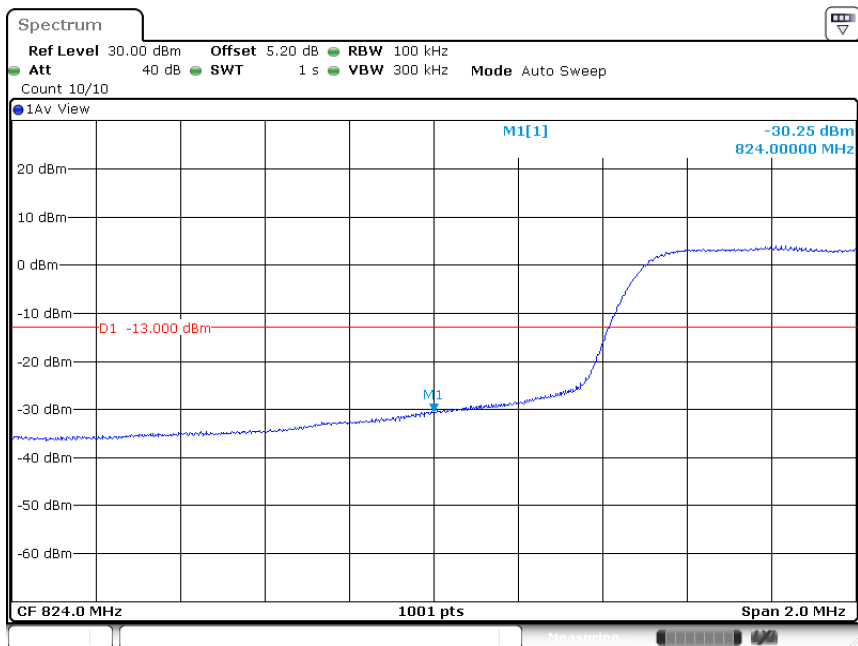
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Date: 28.SEP.2020 12:54:05

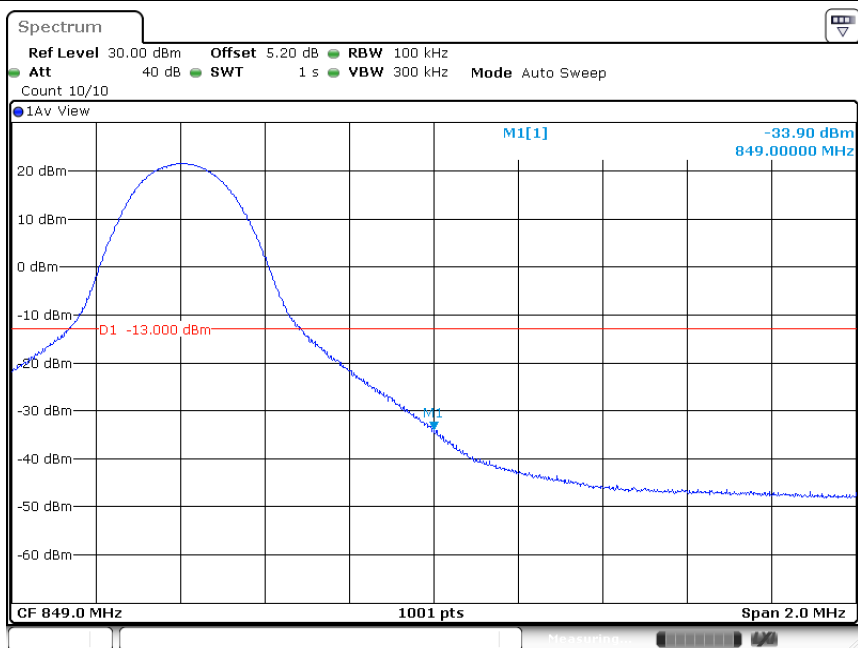


Band5-10MHz-QPSK-20450-50RB#0



Date: 28.SEP.2020 12:54:52

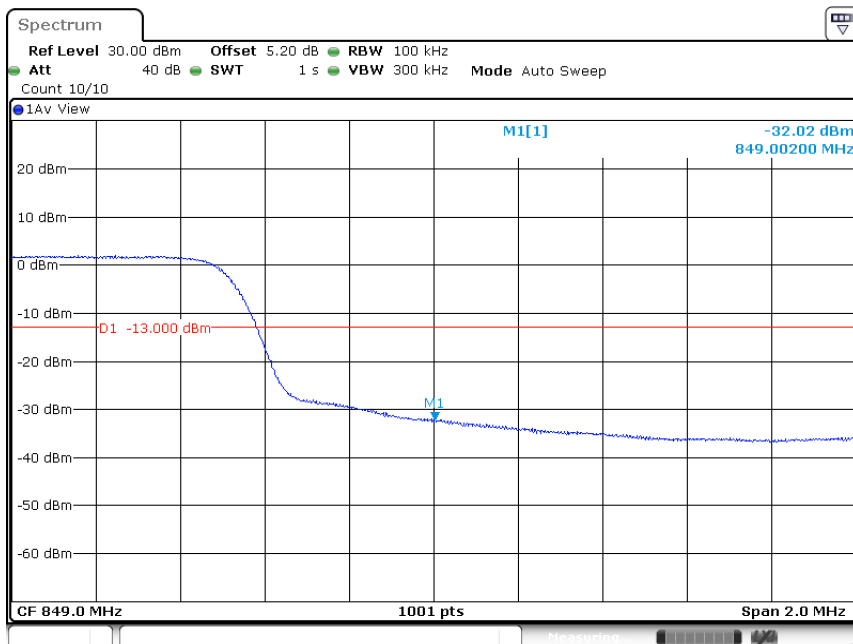
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Date: 28.SEP.2020 12:55:47

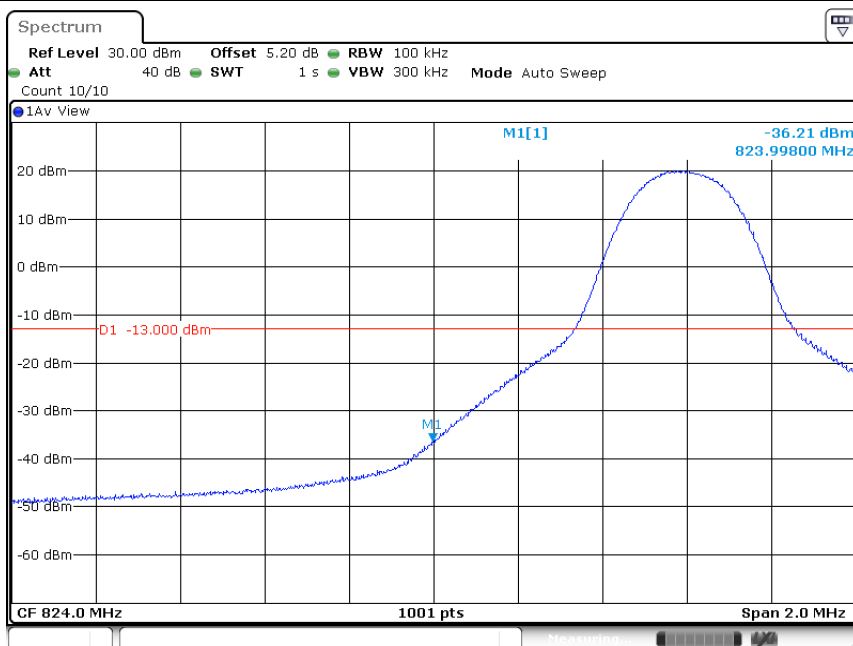


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Date: 28.SEP.2020 12:56:34

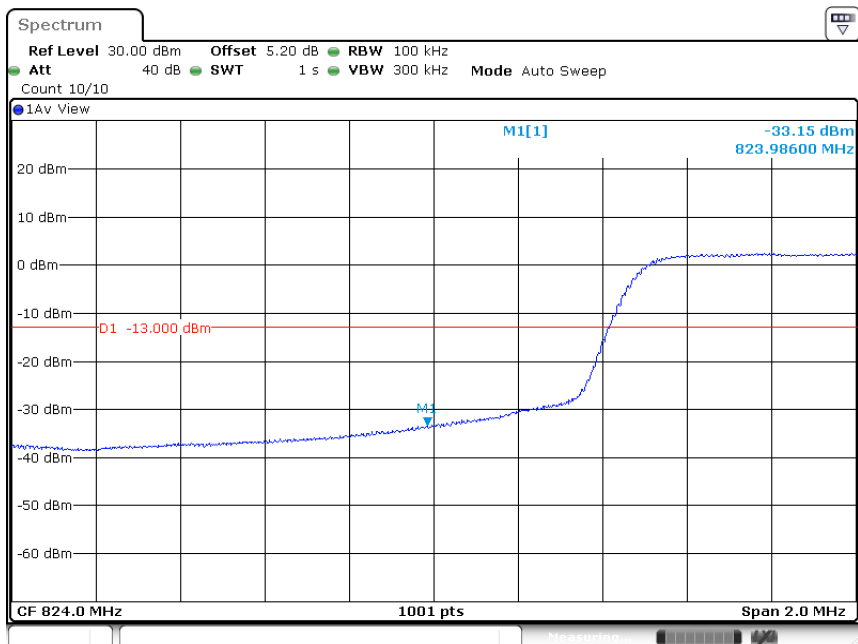
Band5-10MHz-16QAM-20450-1RB#0



Date: 28.SEP.2020 12:54:29

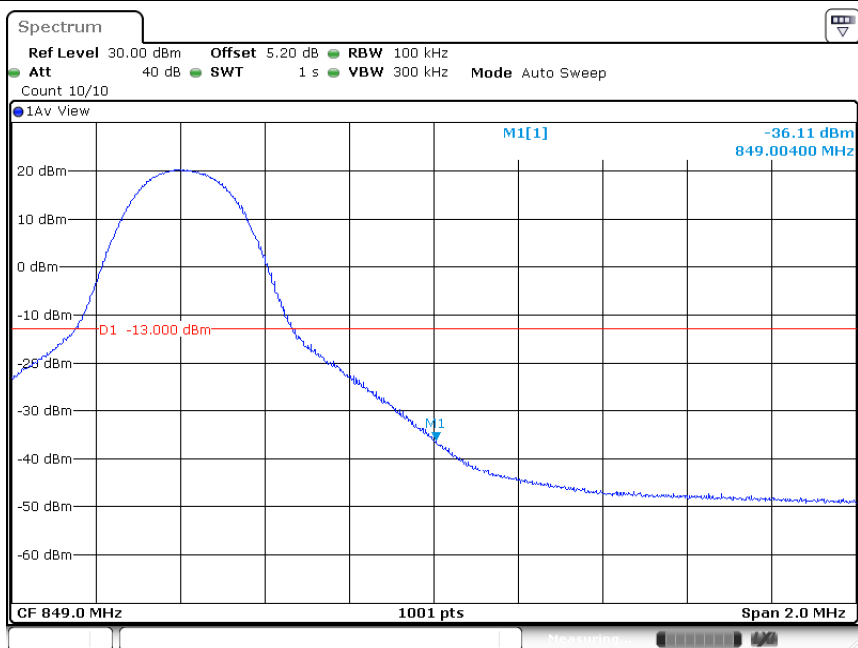


Band5-10MHz-16QAM-20450-50RB#0



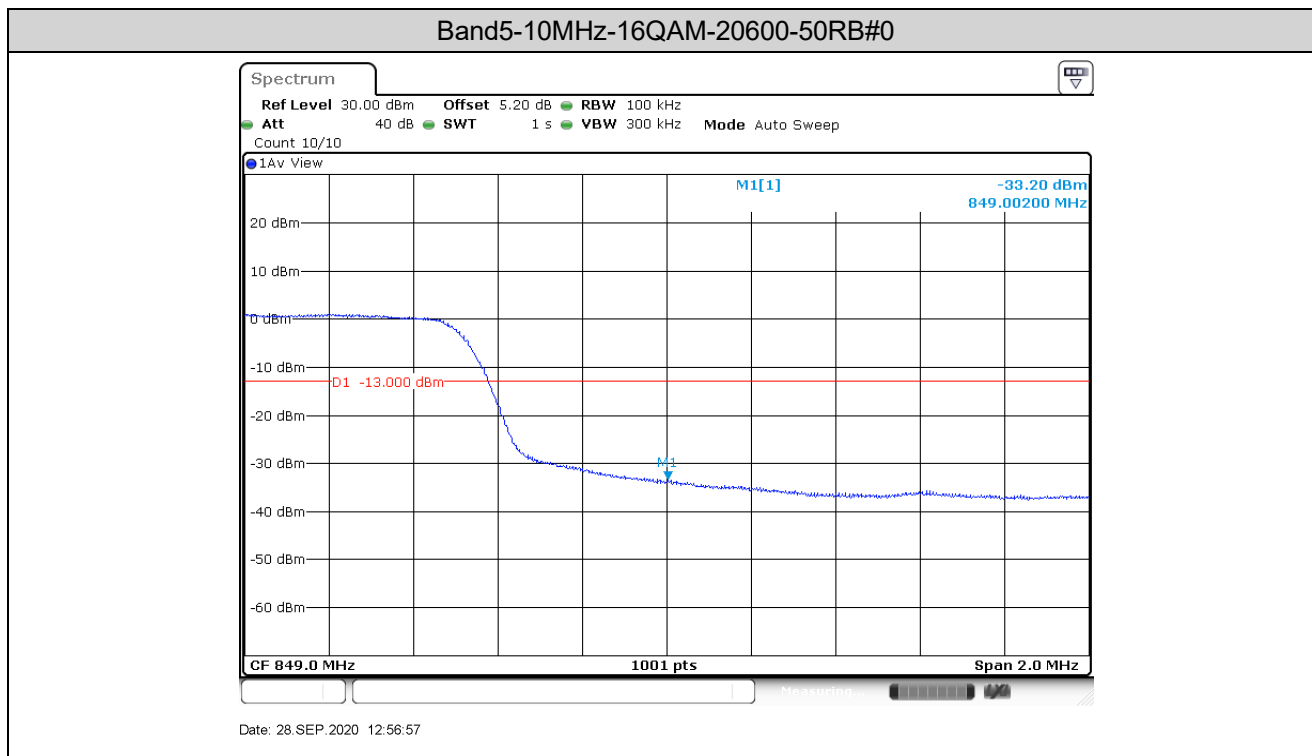
Date: 28.SEP.2020 12:55:16

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



Date: 28.SEP.2020 12:56:11





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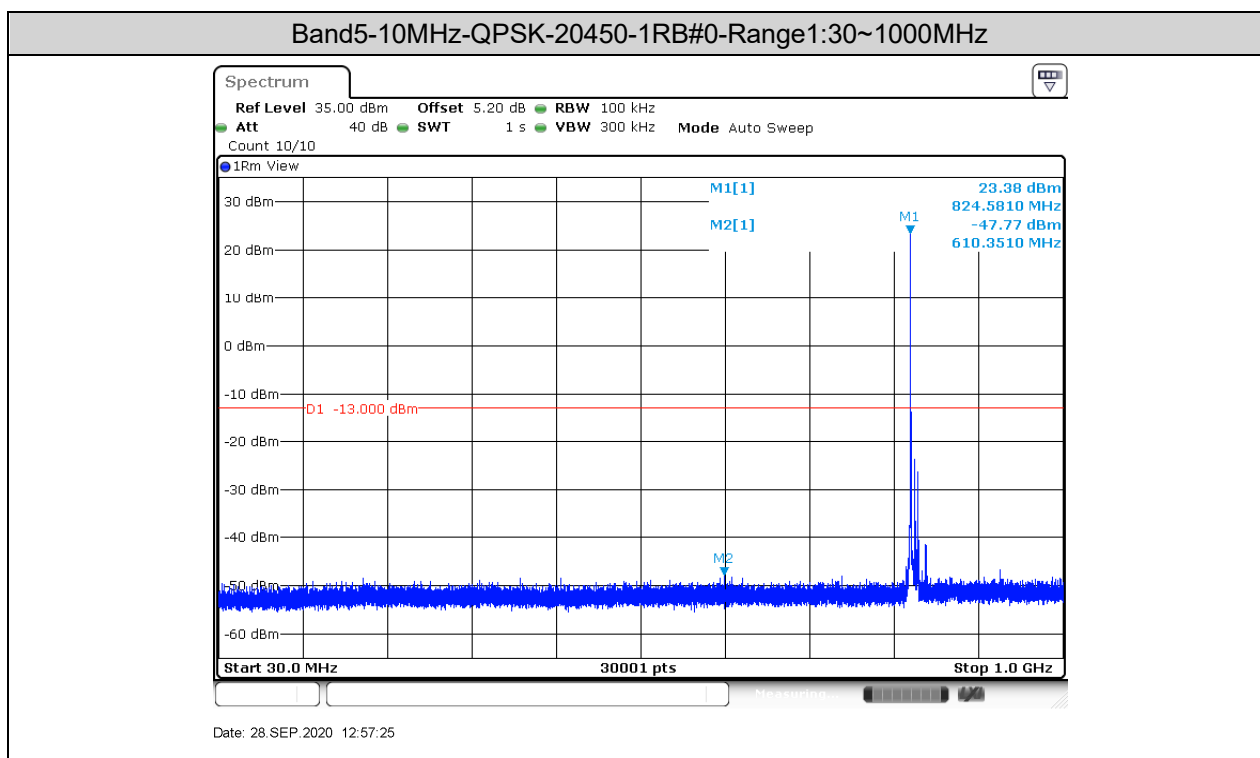
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6. Spurious Emission at Antenna Terminal

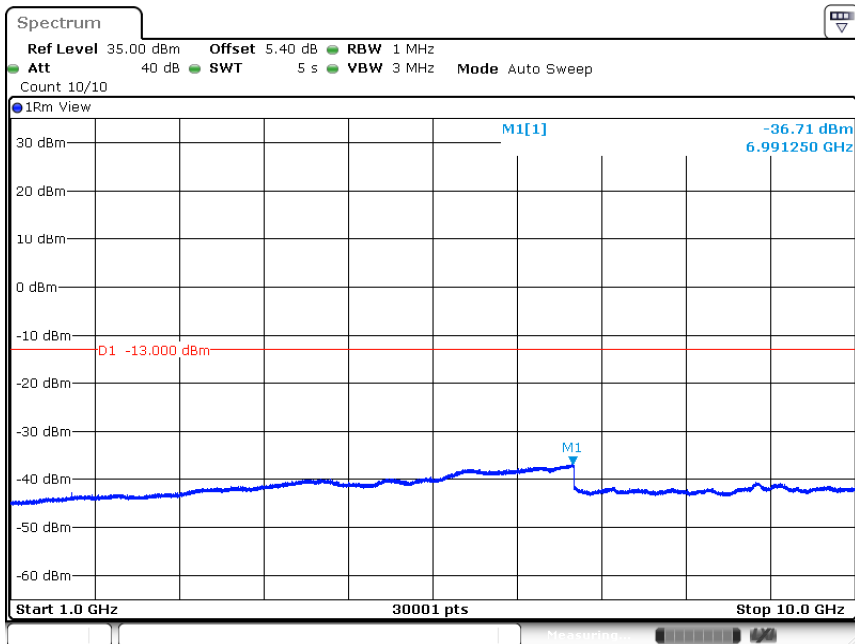
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

6.1. Test Plots

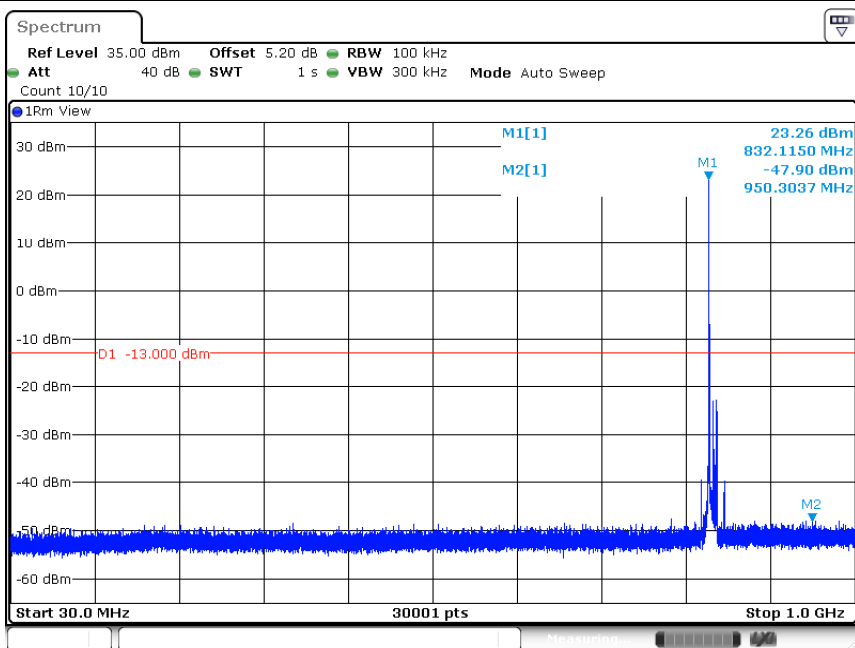


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 12:58:33

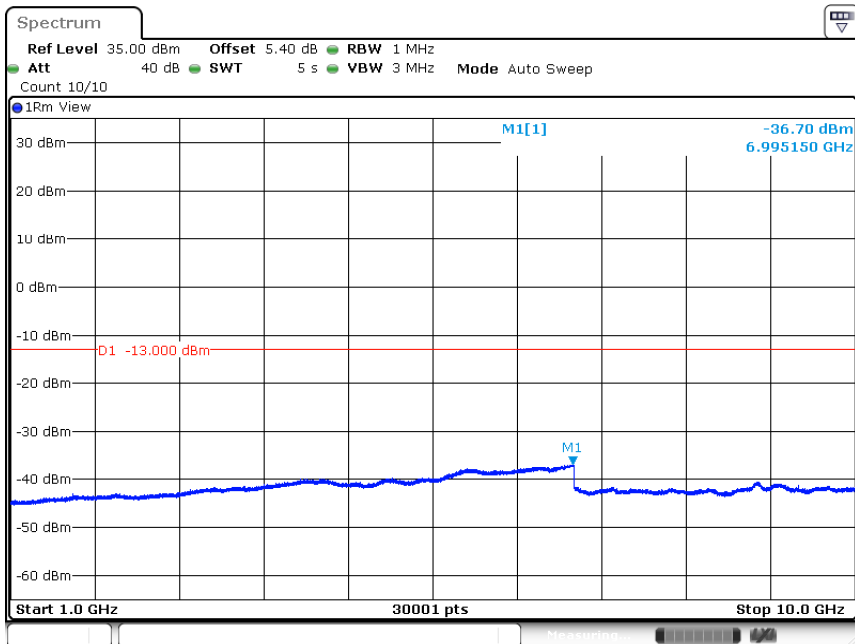
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Date: 28.SEP.2020 13:00:26

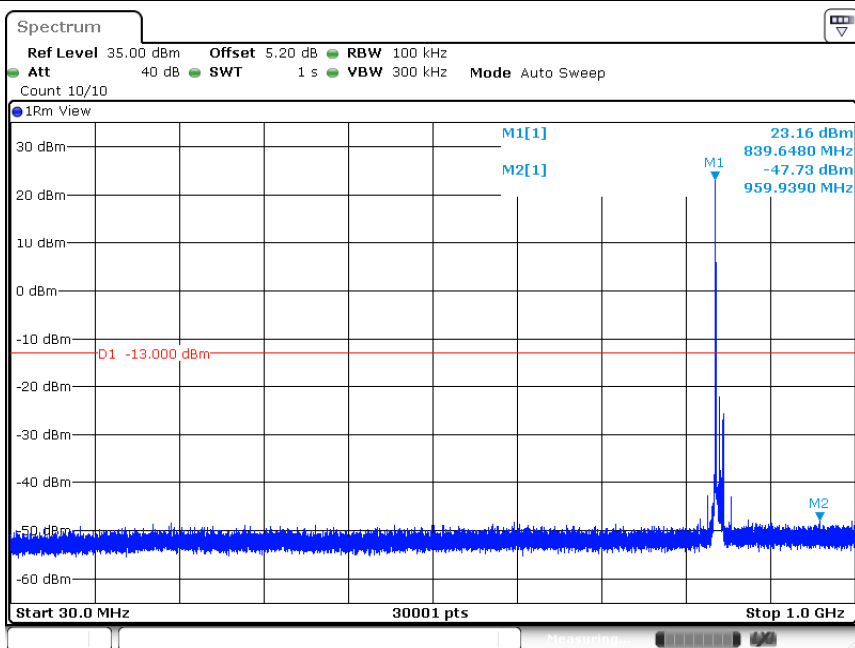


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 13:01:35

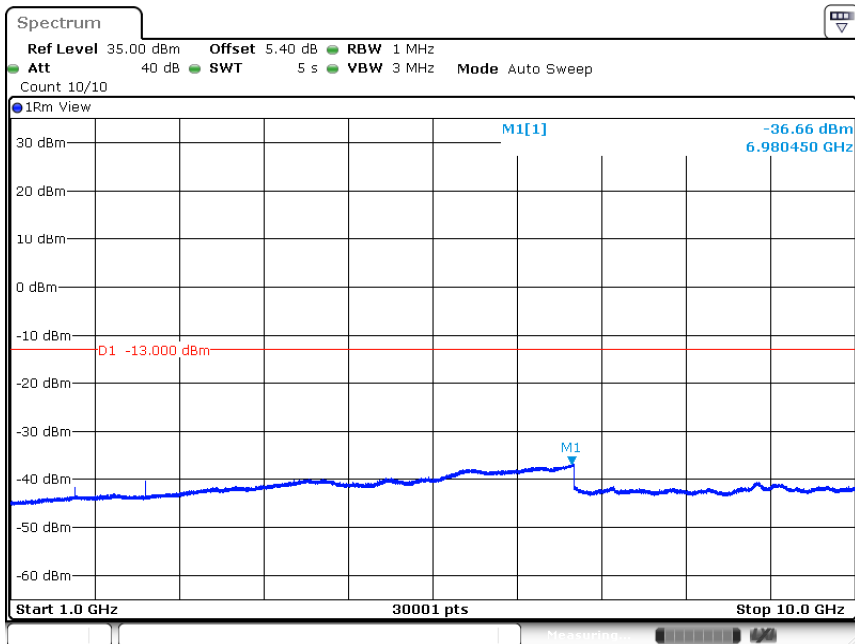
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 28.SEP.2020 13:03:28

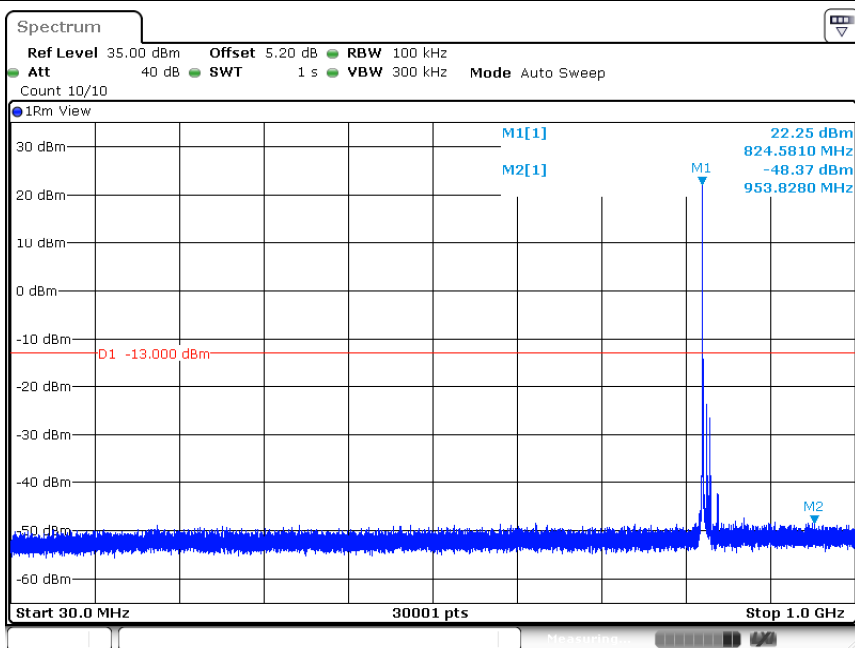


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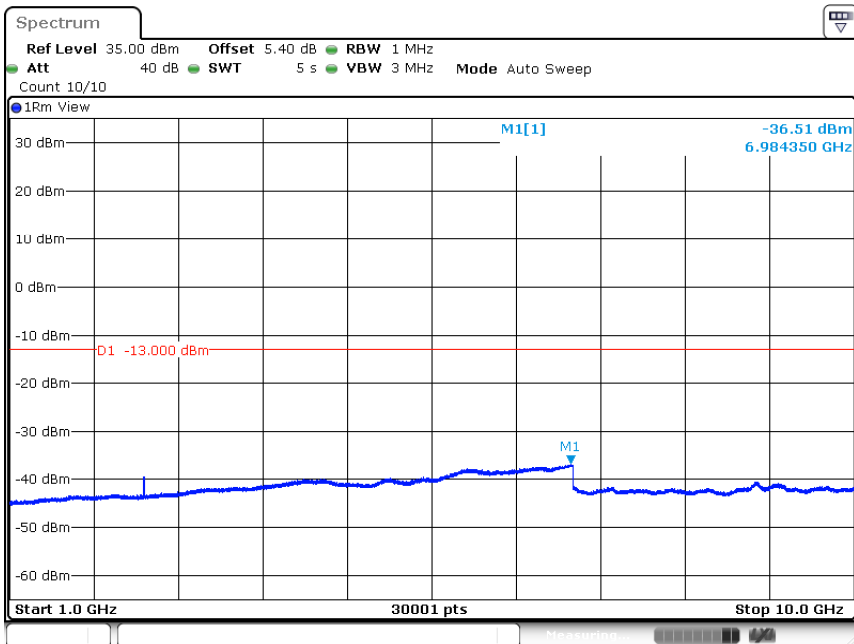
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Date: 28.SEP.2020 12:58:55

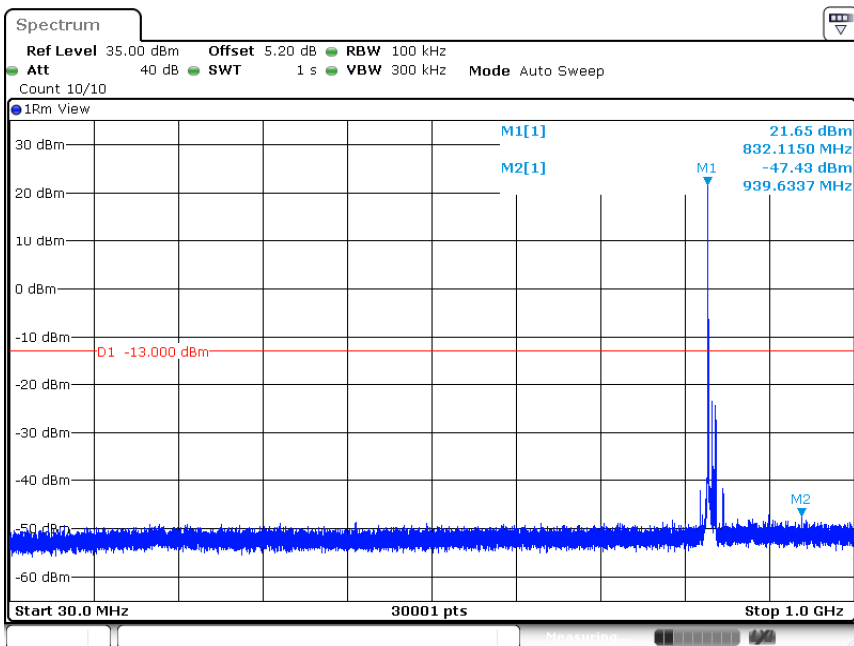


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 13:00:04

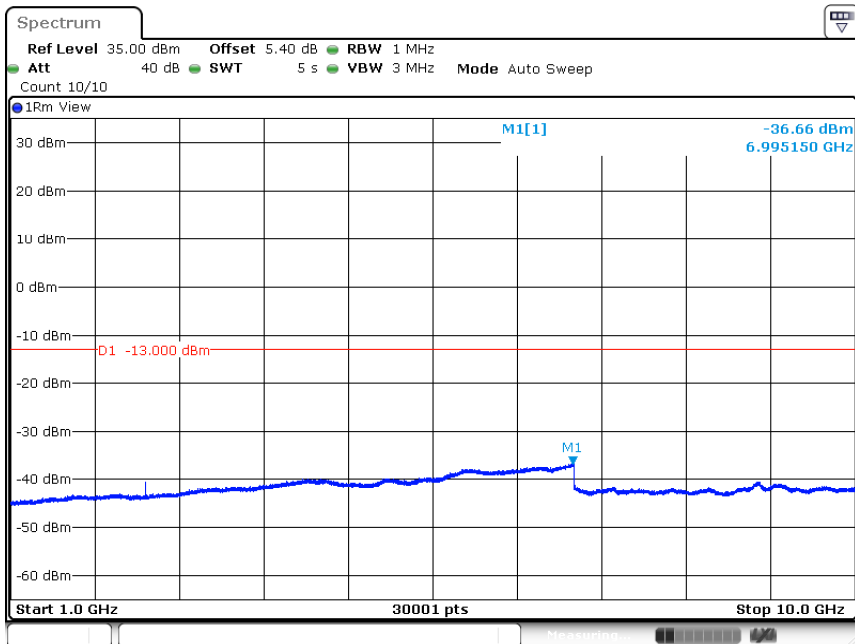
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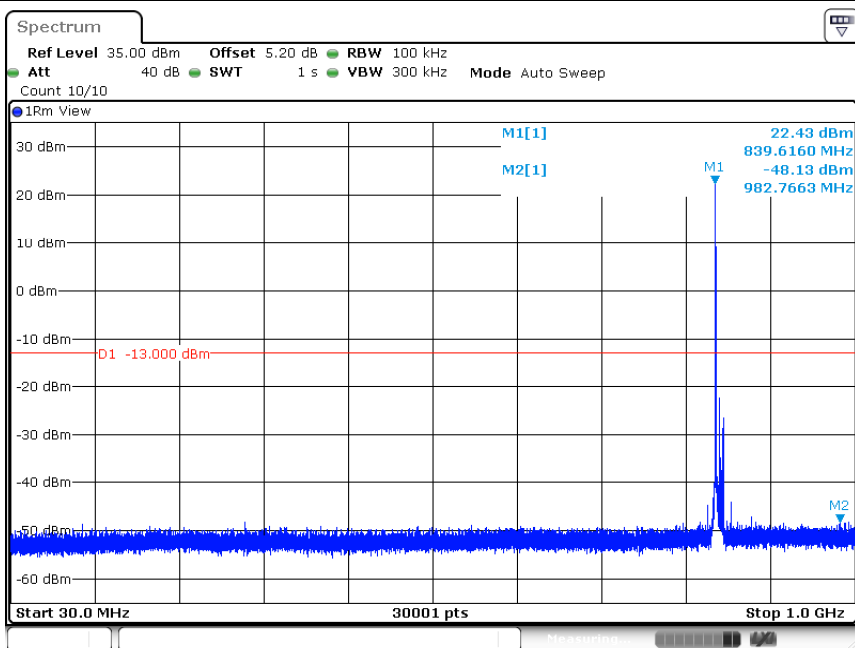


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 13:03:05

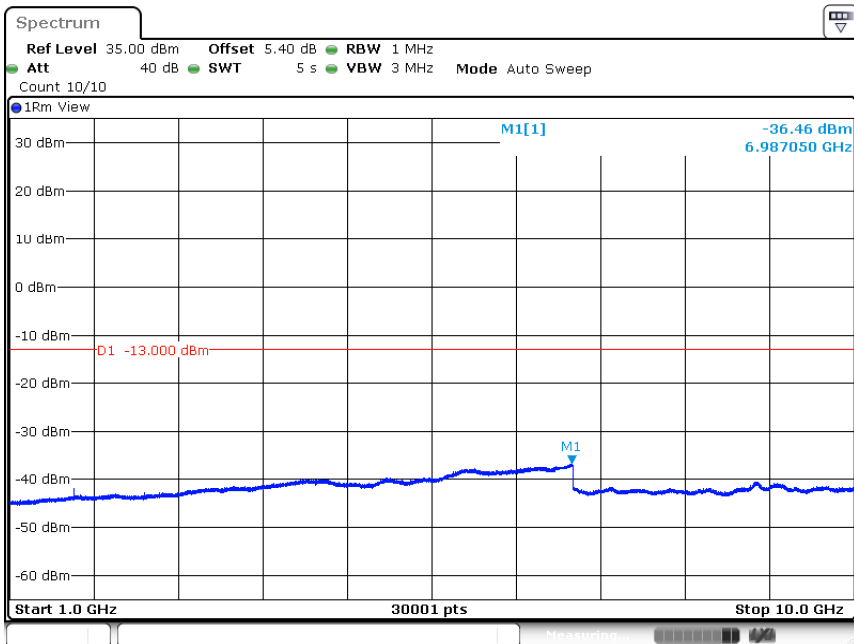
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Date: 28.SEP.2020 13:04:59



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 13:06:07





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
30.0000	-73.58	-13.00	60.58	Vertical
114.1517	-61.95	-13.00	48.95	Vertical
337.8449	-66.44	-13.00	53.44	Vertical
1648.9298	-64.12	-13.00	51.12	Vertical
2697.9396	-57.53	-13.00	44.53	Vertical
9317.0106	-52.04	-13.00	39.04	Vertical
44.4052	-62.70	-13.00	49.70	Horizontal
106.9248	-73.62	-13.00	60.62	Horizontal
241.6646	-65.61	-13.00	52.61	Horizontal
1648.9298	-61.47	-13.00	48.47	Horizontal
2699.1398	-56.31	-13.00	43.31	Horizontal
7470.8157	-56.35	-13.00	43.35	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3096	-73.06	-13.00	60.06	Vertical
112.0176	-63.12	-13.00	50.12	Vertical
384.8437	-65.42	-13.00	52.42	Vertical
1664.1328	-59.21	-13.00	46.21	Vertical
2693.5387	-57.55	-13.00	44.55	Vertical
9796.0599	-51.84	-13.00	38.84	Vertical
43.6777	-62.05	-13.00	49.05	Horizontal
104.0147	-73.12	-13.00	60.12	Horizontal
240.8400	-65.69	-13.00	52.69	Horizontal
1664.1328	-53.24	-13.00	40.24	Horizontal
2699.5399	-56.28	-13.00	43.28	Horizontal
9310.0103	-52.95	-13.00	39.95	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.0485	-71.42	-13.00	58.42	Vertical
107.4584	-62.08	-13.00	49.08	Vertical
335.0803	-66.54	-13.00	53.54	Vertical
1678.9358	-63.78	-13.00	50.78	Vertical
2446.2893	-56.58	-13.00	43.58	Vertical
9859.0620	-51.77	-13.00	38.77	Vertical
39.3125	-62.08	-13.00	49.08	Horizontal
102.9962	-73.19	-13.00	60.19	Horizontal
232.3036	-64.92	-13.00	51.92	Horizontal
1679.3359	-60.46	-13.00	47.46	Horizontal
2701.5403	-56.34	-13.00	43.34	Horizontal
9314.4438	-52.70	-13.00	39.70	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

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	1.40	0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	0.70	0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	4.10	0.004946	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	2.20	0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	2.40	0.002869	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	2.60	0.003081	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	1.00	0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	4.30	0.005095	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	1.90	0.002292	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.50	0.001809	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.60	0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	1.60	0.001913	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	1.70	0.002032	±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	2.30	0.002725	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	1.70	0.002014	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-1.20	-0.001448	±2.5	PASS



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Band5	10MHz	QPSK	20450	50RB#0	NV	40	1.90	0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.90	-0.001076	±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	40	1.20	0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	2.40	0.002844	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.90	0.001066	±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	0	0.50	0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.40	0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	2.00	0.002413	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	2.30	0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	2.20	0.002654	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	2.80	0.003378	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	1.20	0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	1.00	0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	1.00	0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	1.00	0.001195	±2.5	PASS



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Band5	10MHz	16QAM	20525	50RB#0	NV	50	1.00	0.001195	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	1.00	0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	1.20	0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	1.50	0.001777	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	1.60	0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	3.20	0.003791	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-2.00	-0.002370	±2.5	PASS

The End



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