



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	23.59	14.44	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.62	14.47	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.5	14.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.7	14.55	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.59	14.44	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.6	14.45	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.58	13.43	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.24	14.09	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.66	14.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.71	14.56	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.52	14.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.59	14.44	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.61	14.46	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.59	13.44	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.2	14.05	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.48	14.33	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.29	14.14	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.51	14.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.51	14.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.51	14.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.56	13.41	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.54	13.39	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.81	13.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.24	13.09	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.93	13.78	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.81	13.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.91	13.76	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.77	12.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.57	13.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.43	13.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.32	13.17	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.9	13.75	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	22.47	13.32	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.46	13.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.77	12.62	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.15	13	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.61	13.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.47	13.32	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.66	13.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.7	13.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.52	13.37	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.43	12.28	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.5	14.35	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.18	14.03	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.15	14	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.71	13.56	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.7	13.55	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.58	13.43	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.58	13.43	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.1	13.95	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.56	14.41	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.73	14.58	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.59	13.44	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.62	13.47	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.6	13.45	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.55	13.4	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.25	14.1	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.45	14.3	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.43	14.28	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.56	13.41	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.58	13.43	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.7	13.55	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.64	13.49	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.61	13.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.2	13.05	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.15	13	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.73	12.58	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.77	12.62	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.54	12.39	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.74	12.59	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.55	13.4	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.35	13.2	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.28	13.13	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.59	12.44	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.48	12.33	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.74	12.59	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.65	12.5	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.27	13.12	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.61	13.46	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.35	13.2	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.67	12.52	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.7	12.55	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.64	12.49	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.89	12.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.41	14.26	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.34	14.19	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.32	14.17	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.65	13.5	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.81	13.66	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.7	13.55	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.66	13.51	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.15	14	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.62	14.47	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.74	14.59	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.68	13.53	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.63	13.48	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.62	13.47	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.68	13.53	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.3	14.15	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.63	14.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.46	14.31	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.61	13.46	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.69	13.54	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.77	13.62	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.7	13.55	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.75	13.6	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.27	13.12	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.19	13.04	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.8	12.65	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.87	12.72	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.63	12.48	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.78	12.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.58	13.43	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.37	13.22	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.41	13.26	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.63	12.48	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.67	12.52	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.71	12.56	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.76	12.61	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.35	13.2	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.68	13.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.36	13.21	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.79	12.64	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.78	12.63	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.72	12.57	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.92	12.77	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.63	14.48	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.82	14.67	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.41	14.26	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.79	13.64	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.7	13.55	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.64	13.49	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.69	13.54	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.29	14.14	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.78	14.63	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.75	14.6	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.65	13.5	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.65	13.5	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.59	13.44	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.71	13.56	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.22	14.07	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.51	14.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.48	14.33	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.64	13.49	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.63	13.48	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.61	13.46	38.45	PASS





Band5	10MHz	QPSK	20600	50RB#0	22.64	13.49	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.62	13.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.02	13.87	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.28	13.13	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.07	12.92	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.87	12.72	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.96	12.81	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.74	12.59	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.59	13.44	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.51	13.36	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.37	13.22	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.86	12.71	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.62	12.47	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.6	12.45	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.77	12.62	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.08	12.93	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.64	13.49	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.53	13.38	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.74	12.59	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.8	12.65	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.68	12.53	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.46	12.31	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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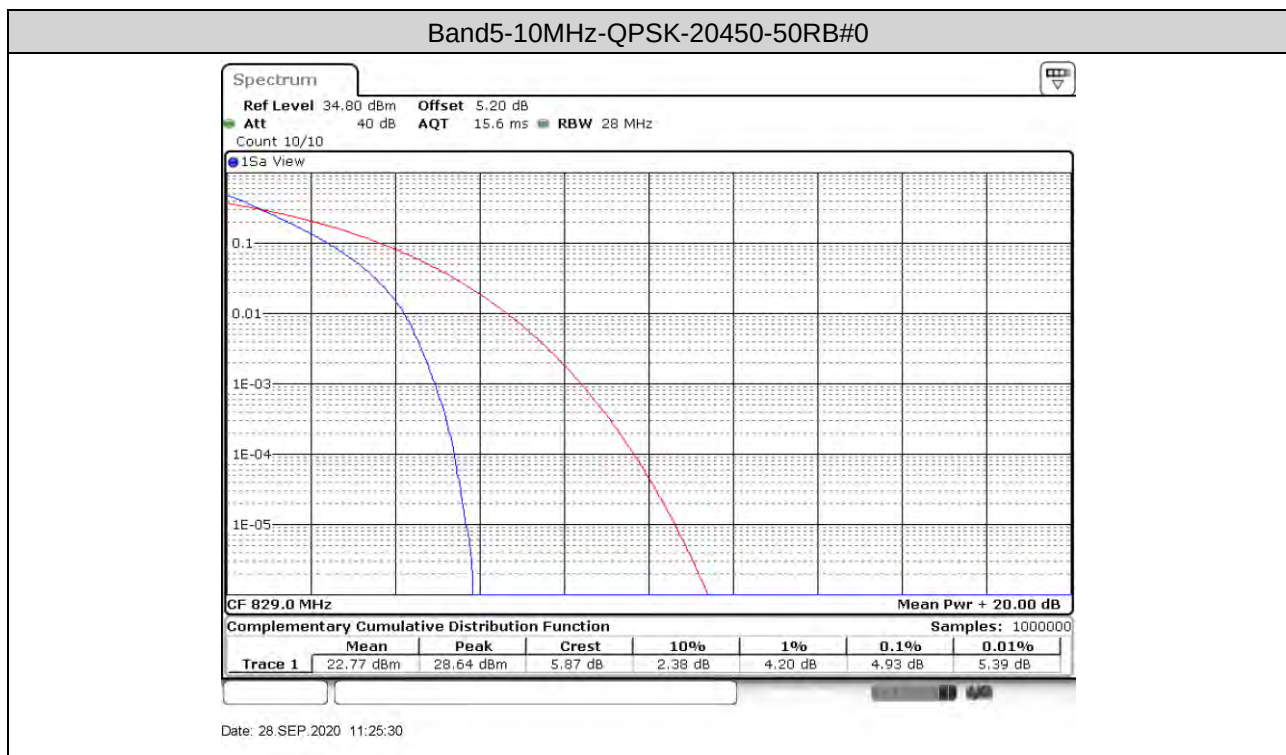


2. Peak-to-Average Ratio (CCDF)

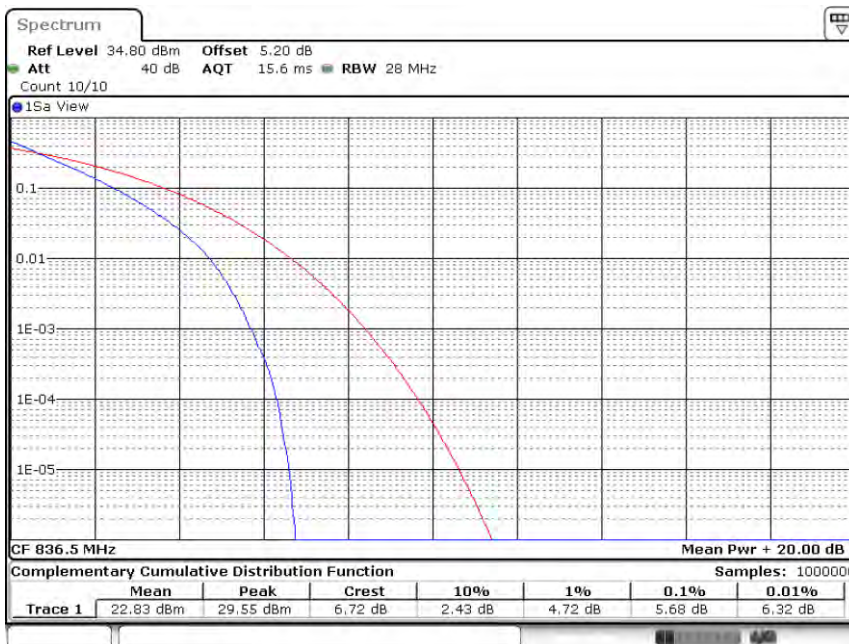
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.93	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.68	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.99	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.71	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.80	13	PASS

2.2. Test Plots

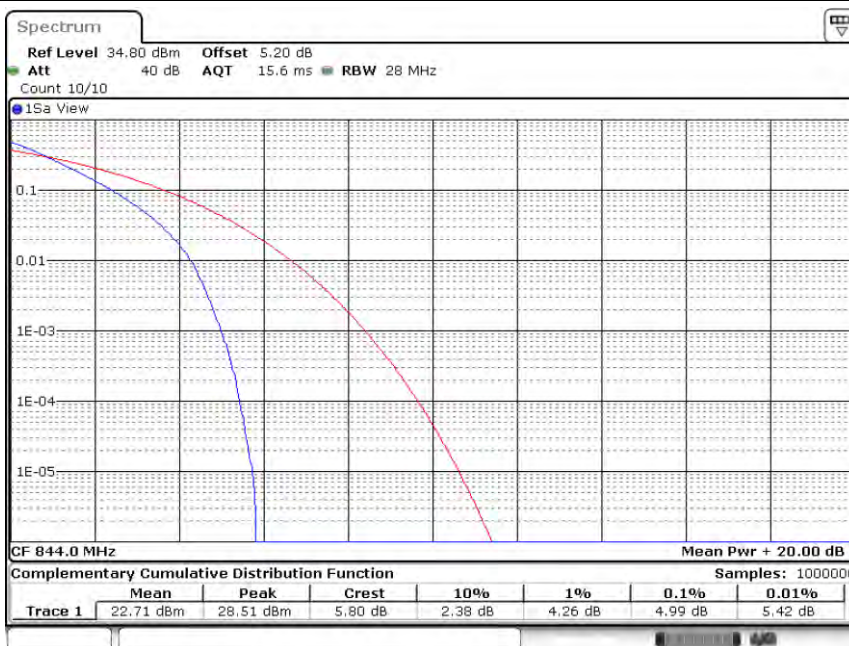


Band5-10MHz-QPSK-20525-50RB#0



Date: 28.SEP.2020 11:25:59

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



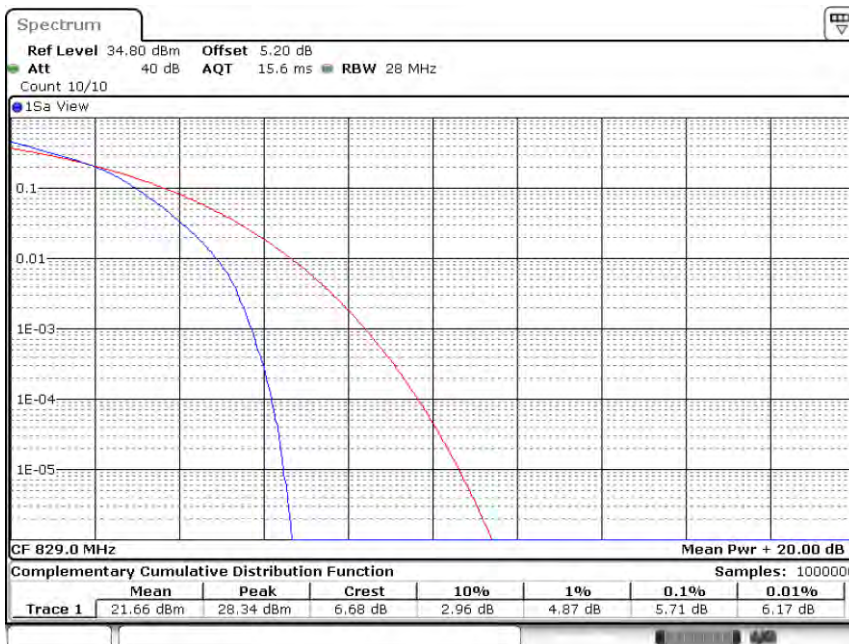
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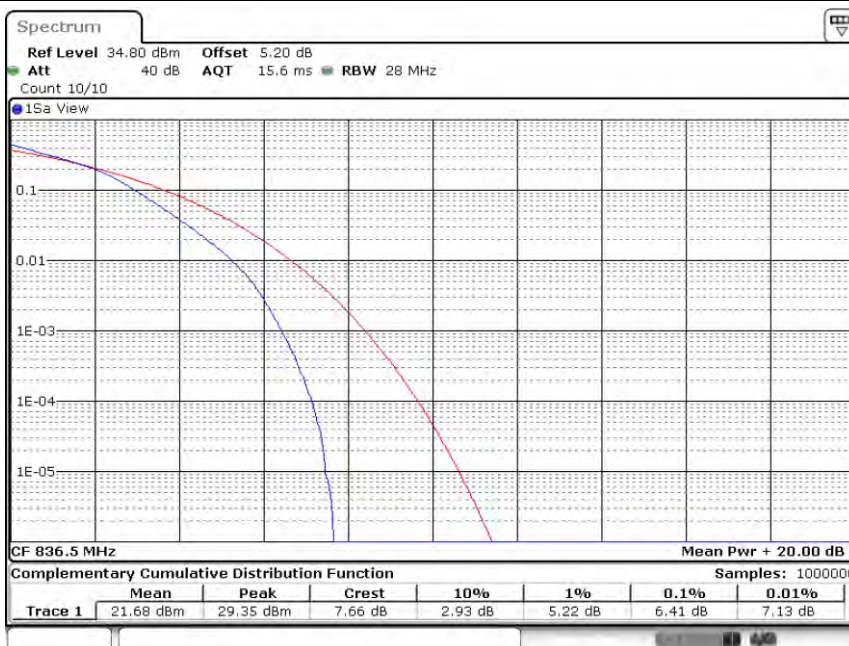
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Band5-10MHz-16QAM-20450-50RB#0



Date: 28.SEP.2020 11:25:45

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

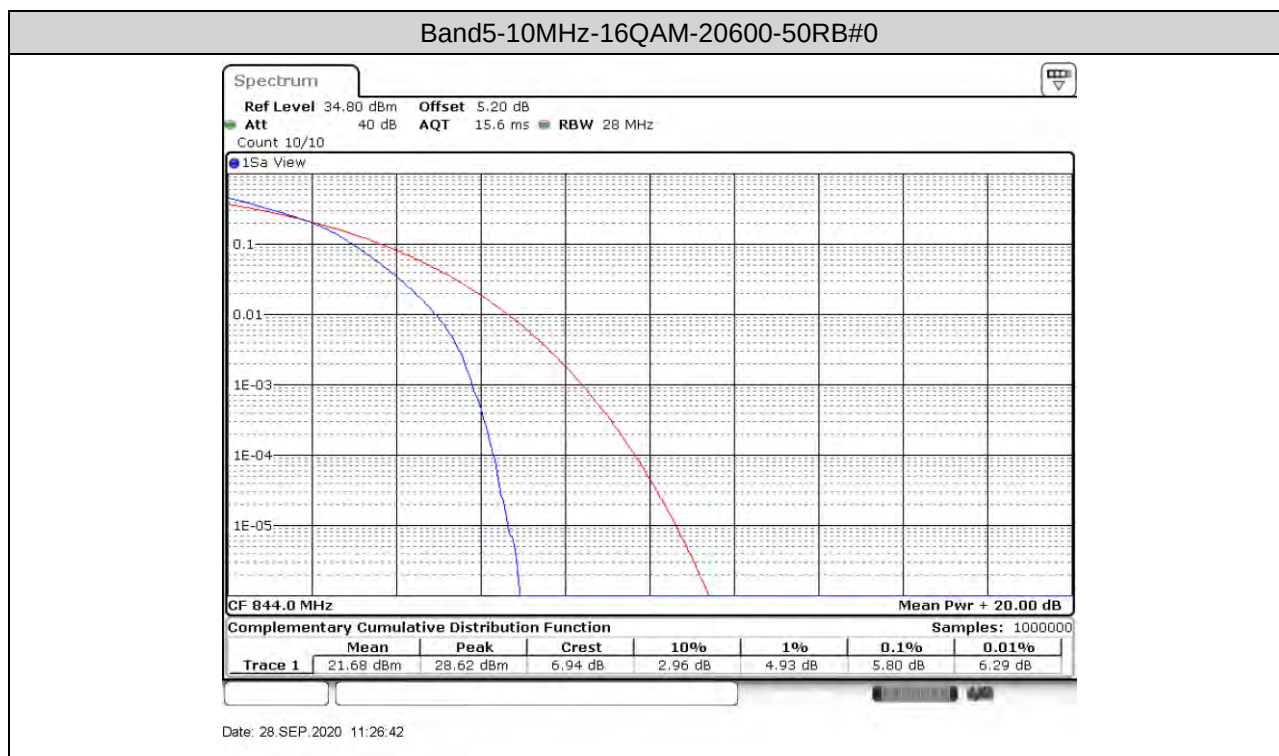


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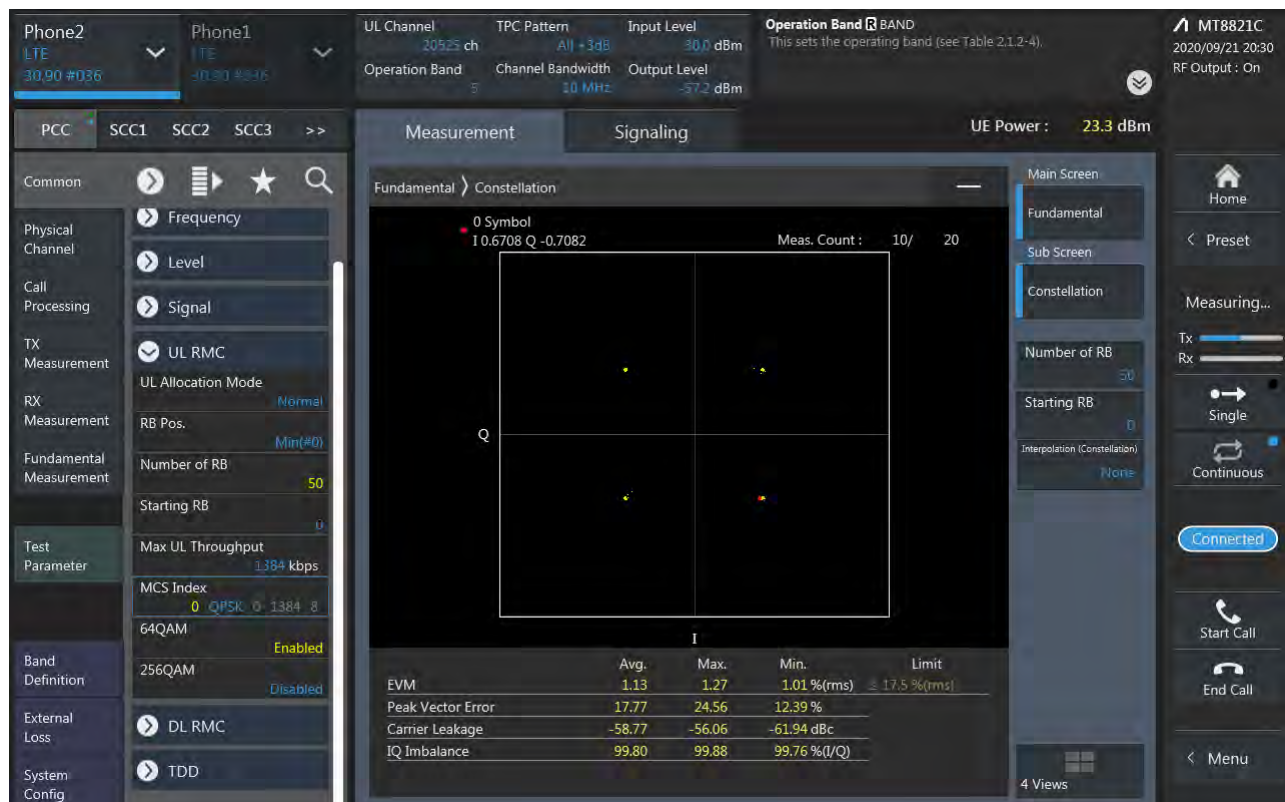
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

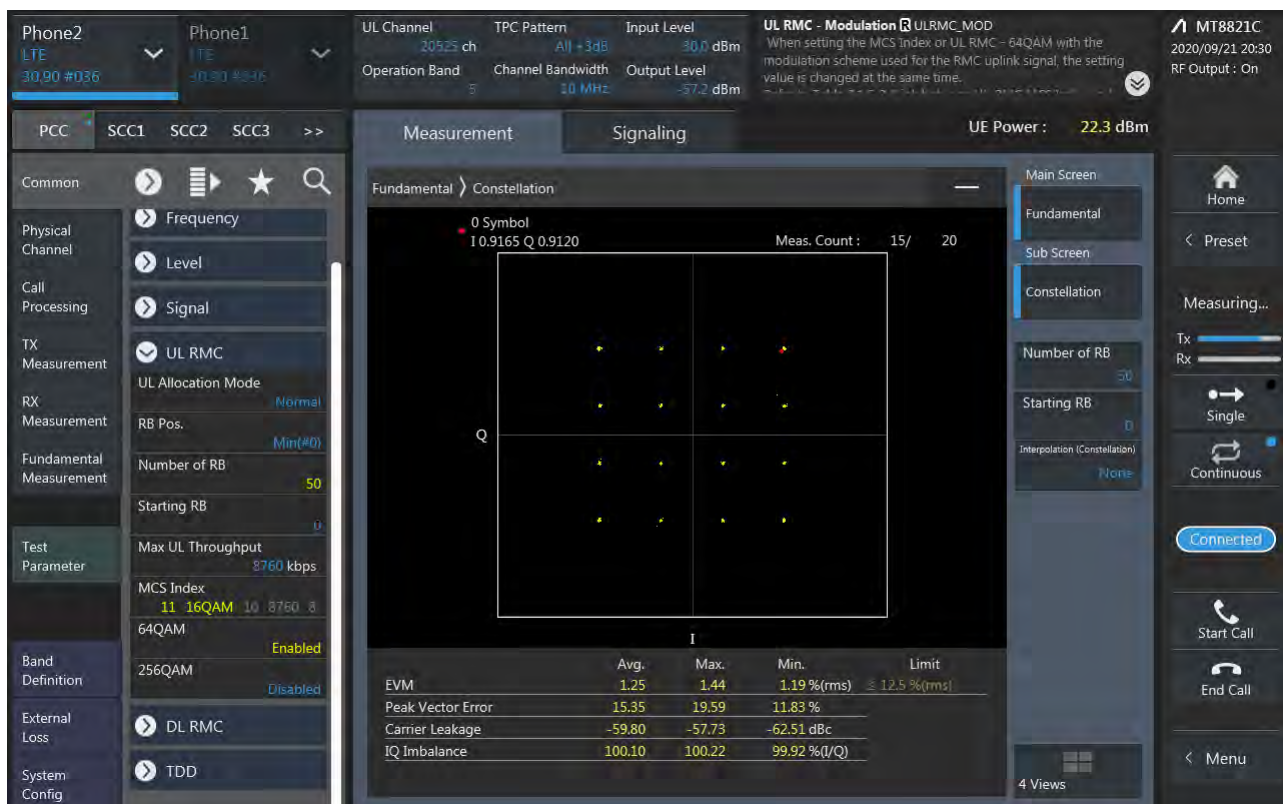
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

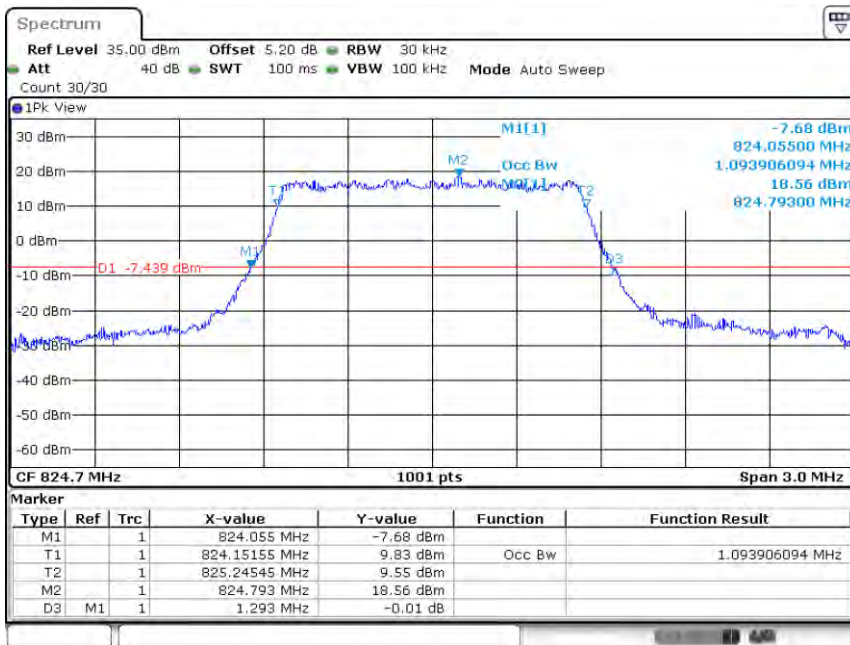
4.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.293	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.287	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.284	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.988	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.964	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.964	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.970	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	4.476	4.910	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.940	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.930	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.680	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.720	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.760	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.891	9.720	PASS



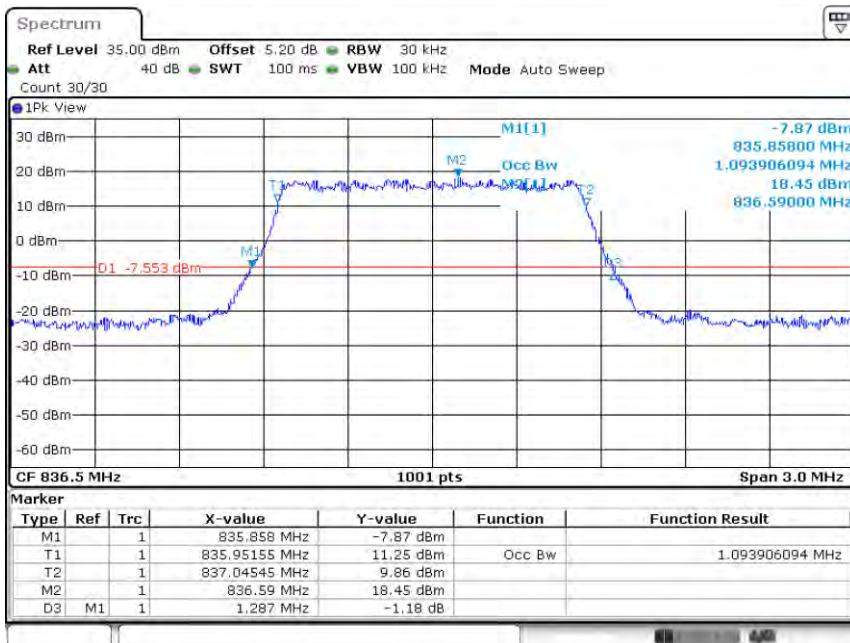
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



Date: 28. SEP. 2020 10:55:23

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



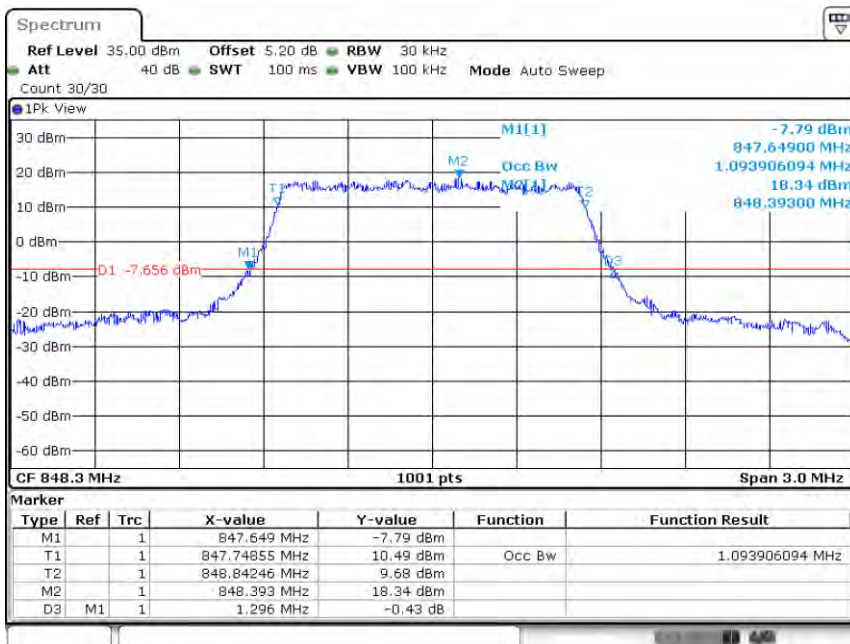
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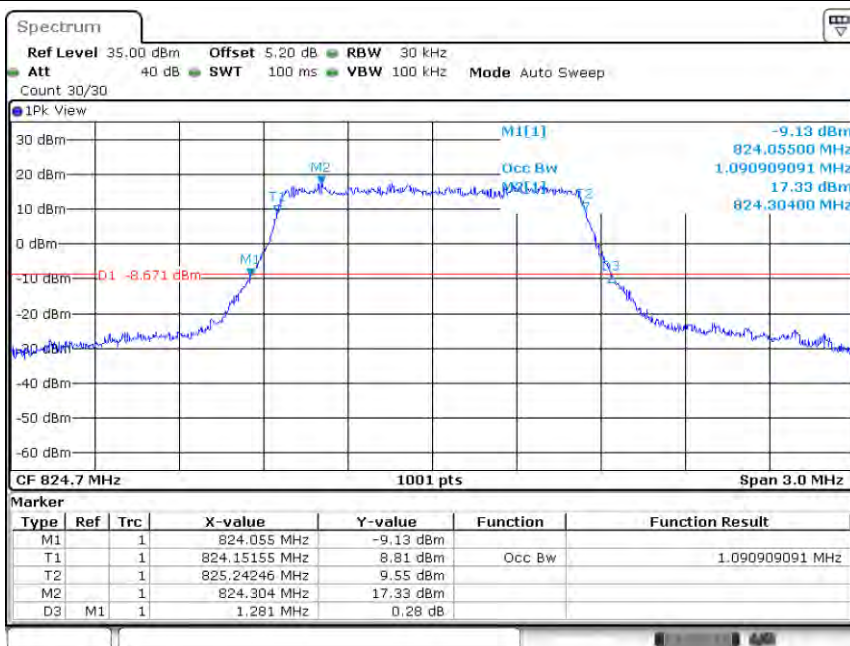
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Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 28.SEP.2020 10:56:26

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



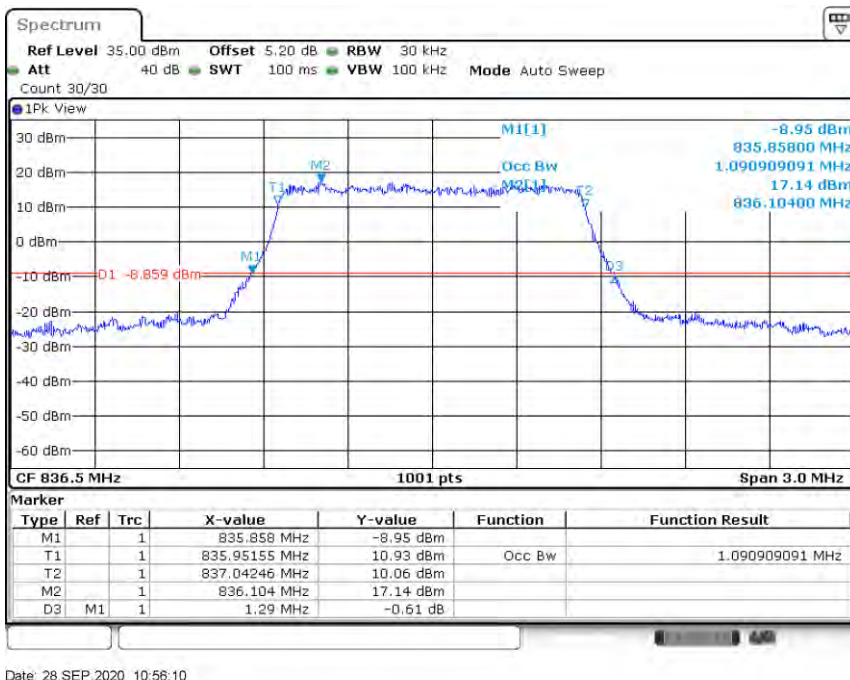
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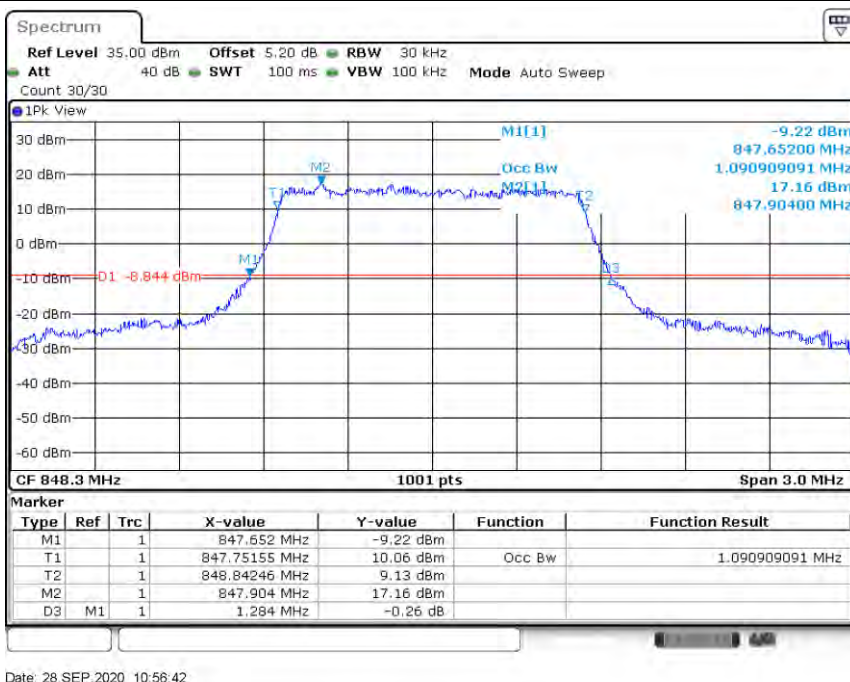
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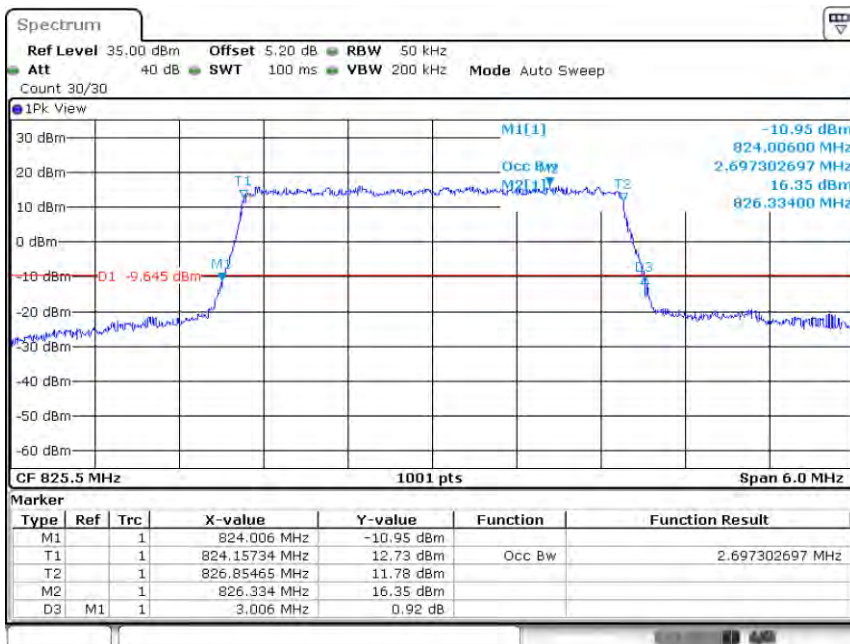
Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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

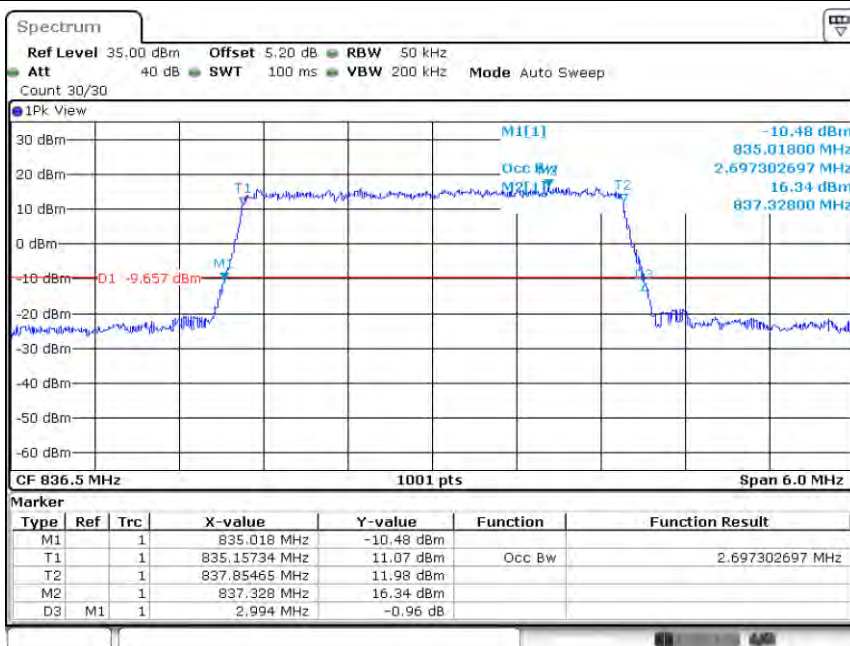


Band5-3MHz-QPSK-20415-15RB#0-2.697



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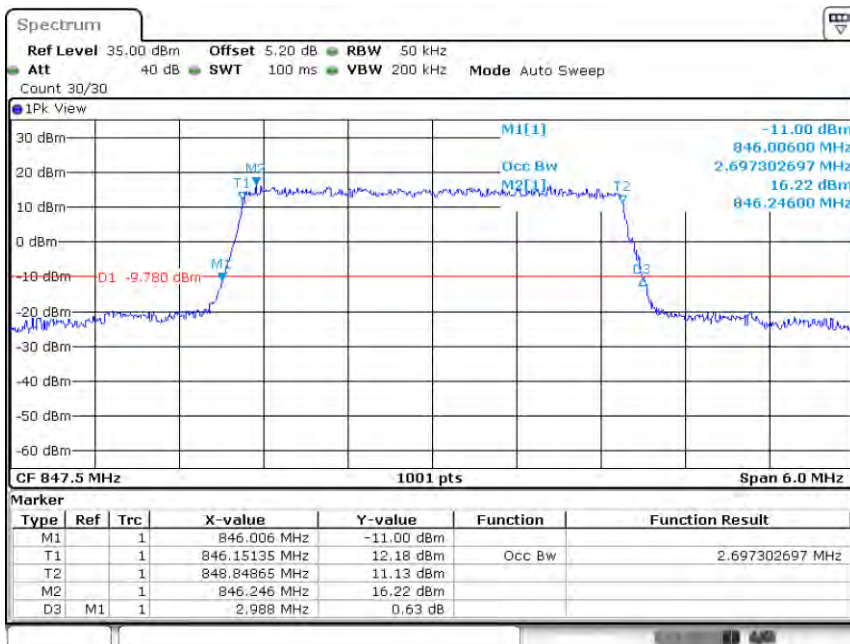
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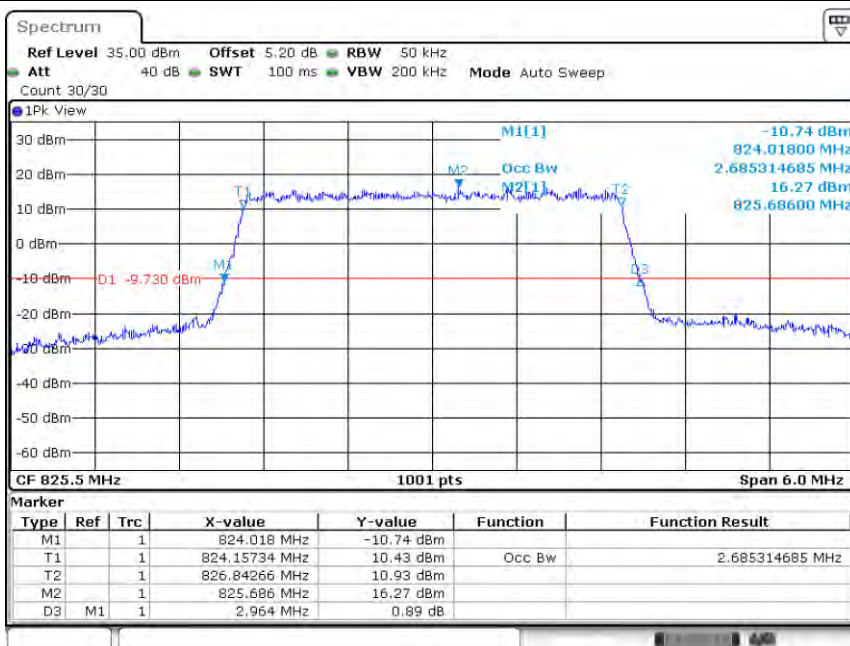


Band5-3MHz-QPSK-20635-15RB#0-2.697



Date: 28.SEP.2020 10:58:07

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



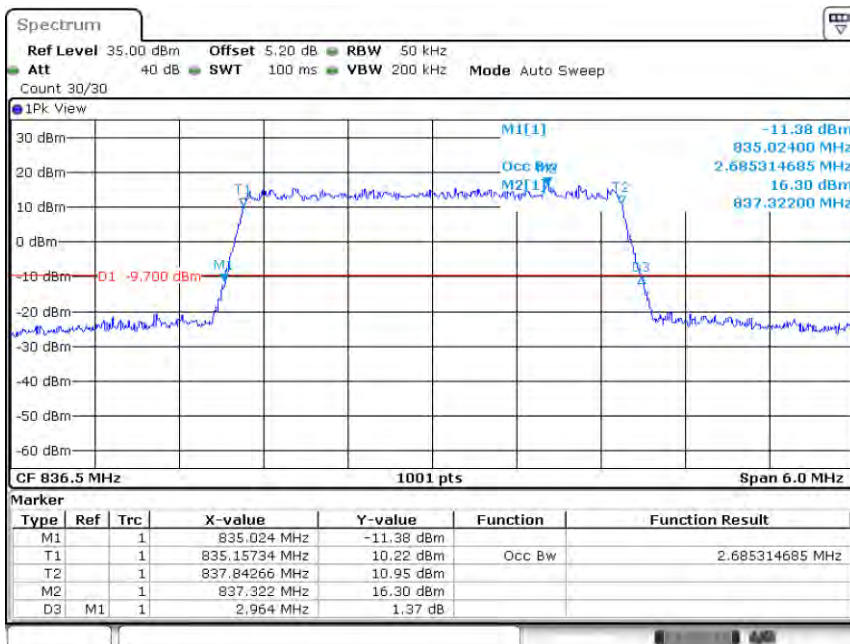
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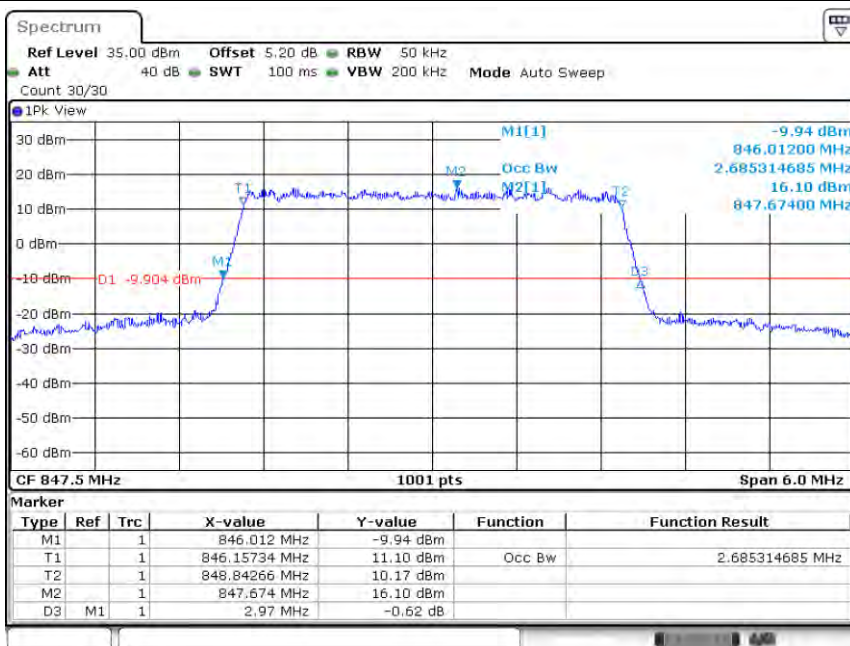
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Band5-3MHz-16QAM-20525-15RB#0-2.685



Date: 28.SEP.2020 10:57:51

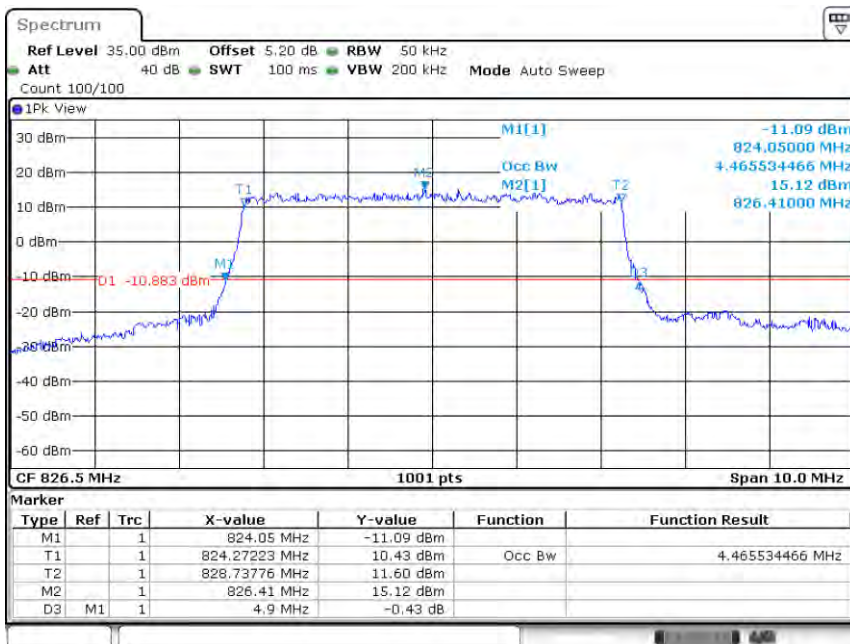
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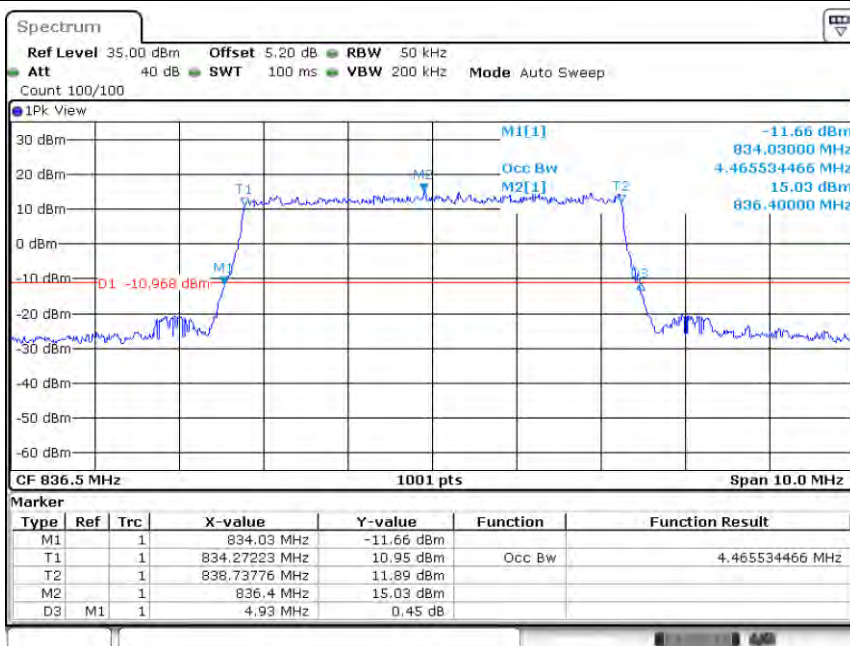


Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 28.SEP.2020 10:58:50

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



Date: 28.SEP.2020 10:59:36



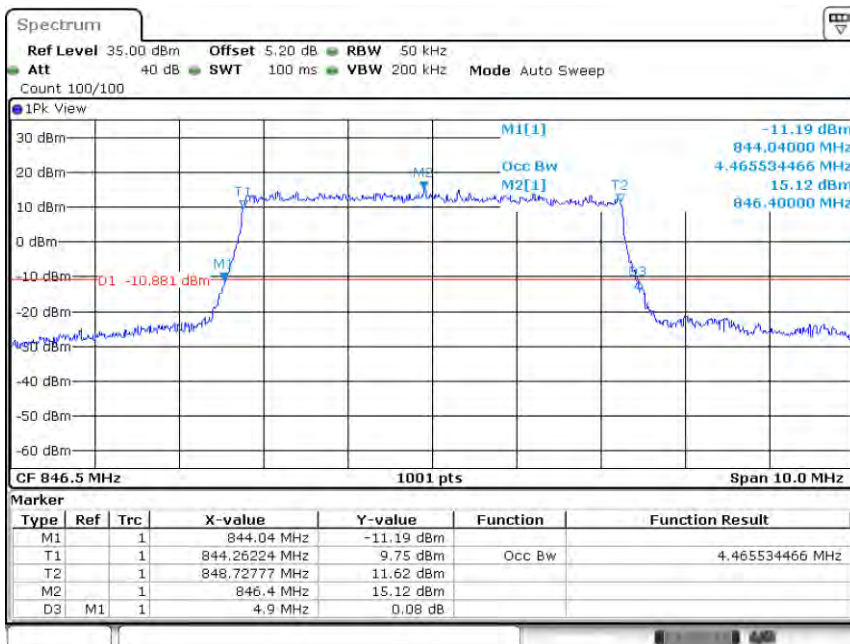
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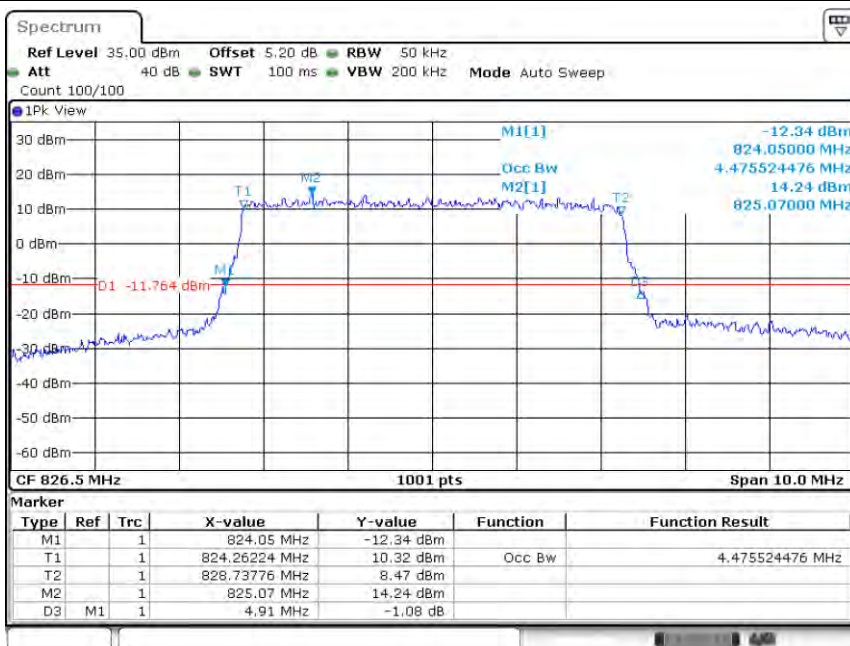
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Band5-5MHz-QPSK-20625-25RB#0-4.466



Date: 28.SEP.2020 11:00:22

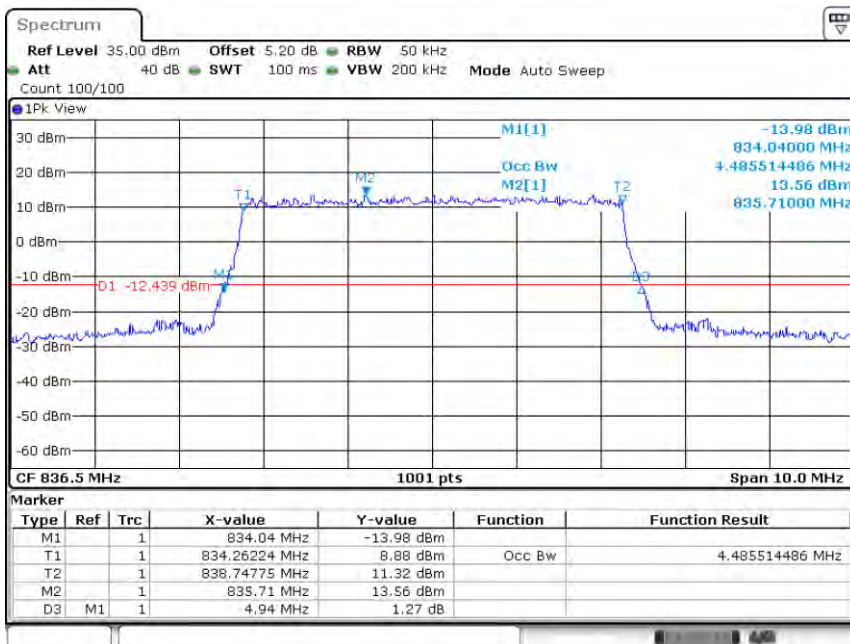
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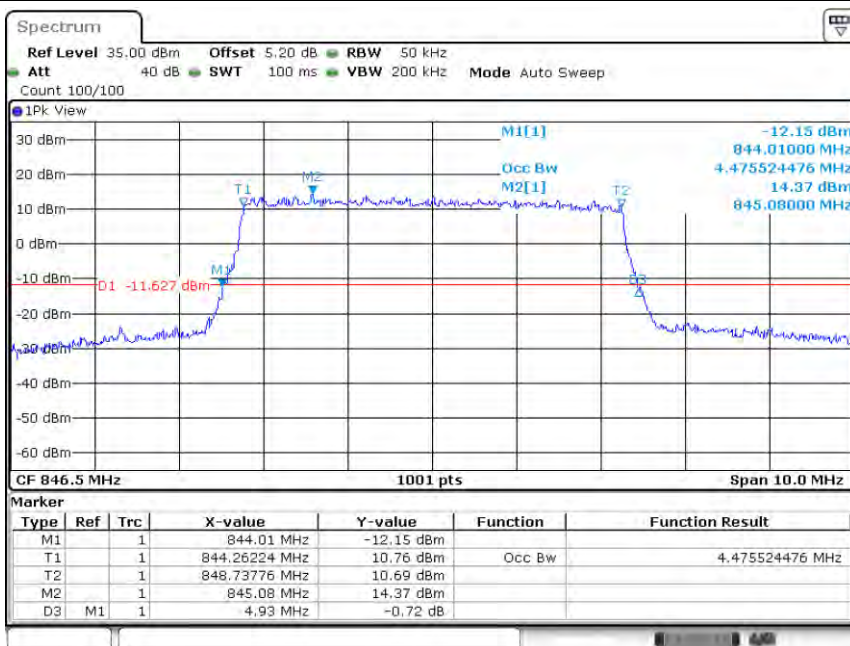


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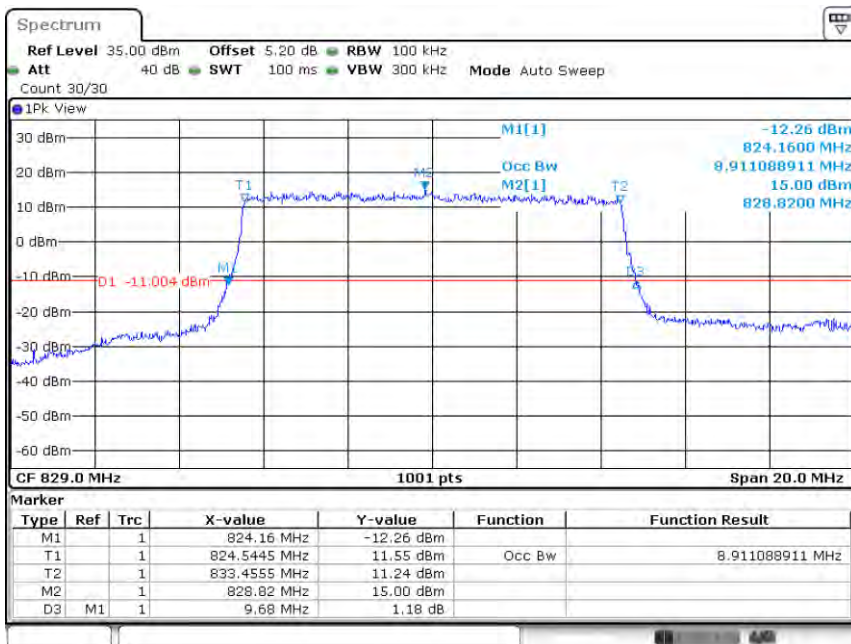
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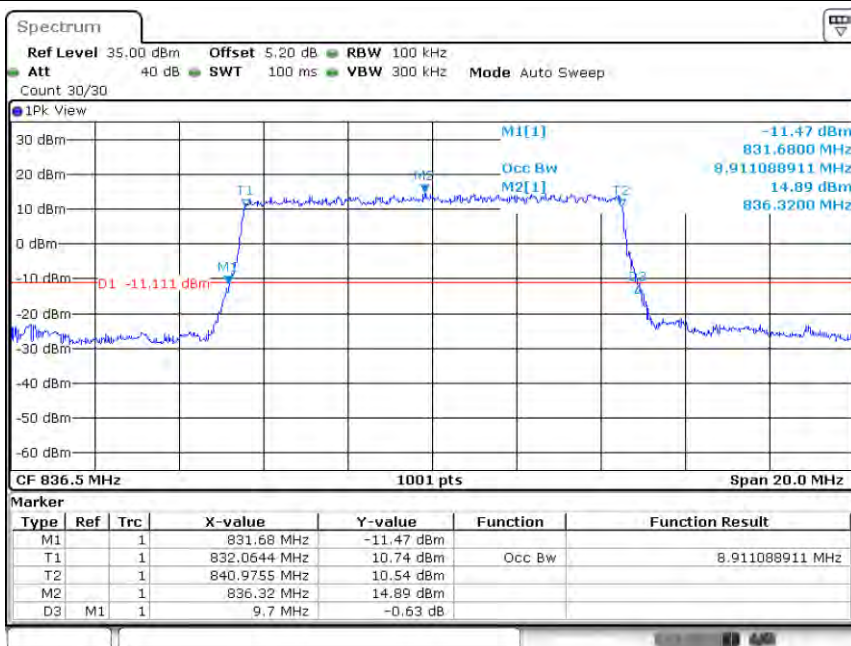


Band5-10MHz-QPSK-20450-50RB#0-8.911



Date: 28.SEP.2020 11:01:06

Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 28.SEP.2020 11:01:37

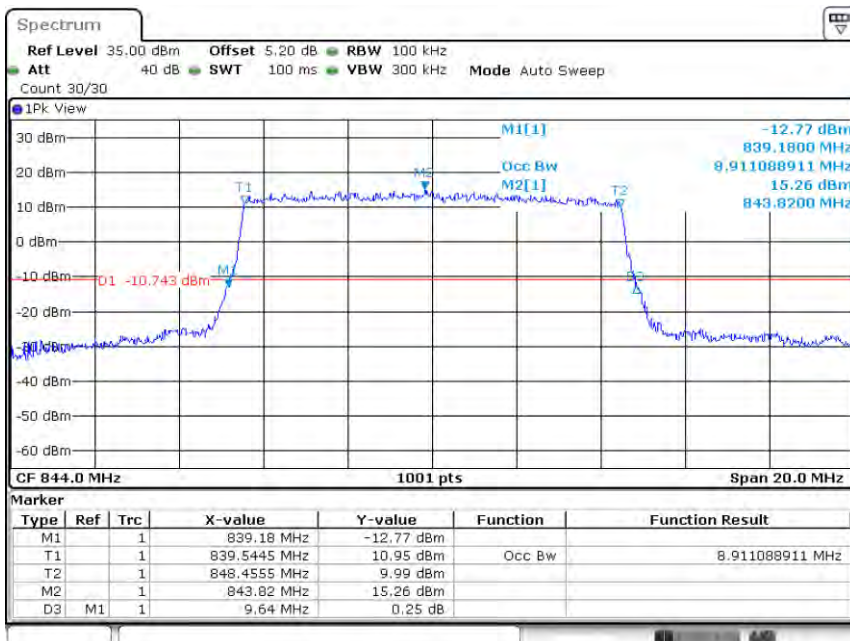


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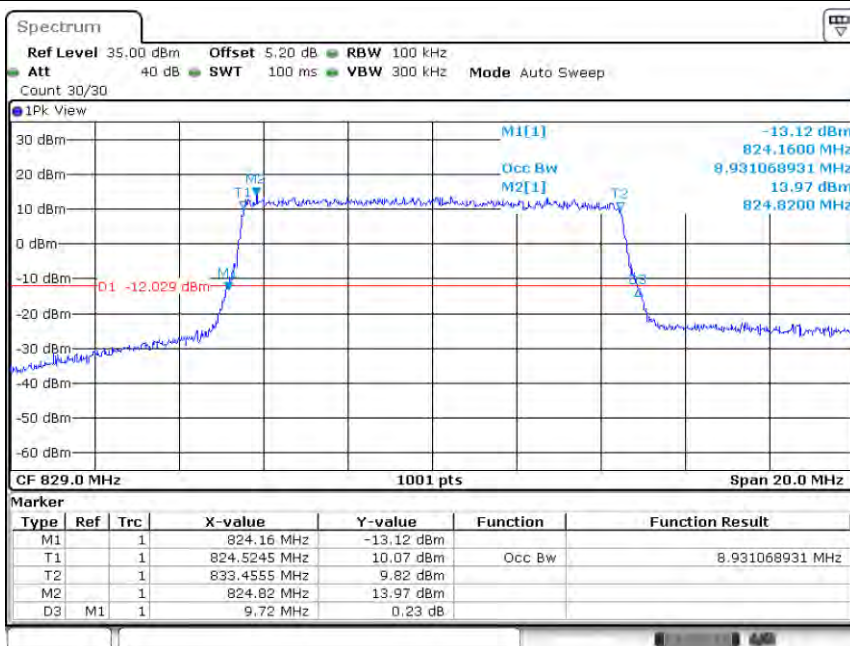
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Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 28.SEP.2020 11:02:09

Band5-10MHz-16QAM-20450-50RB#0-8.931



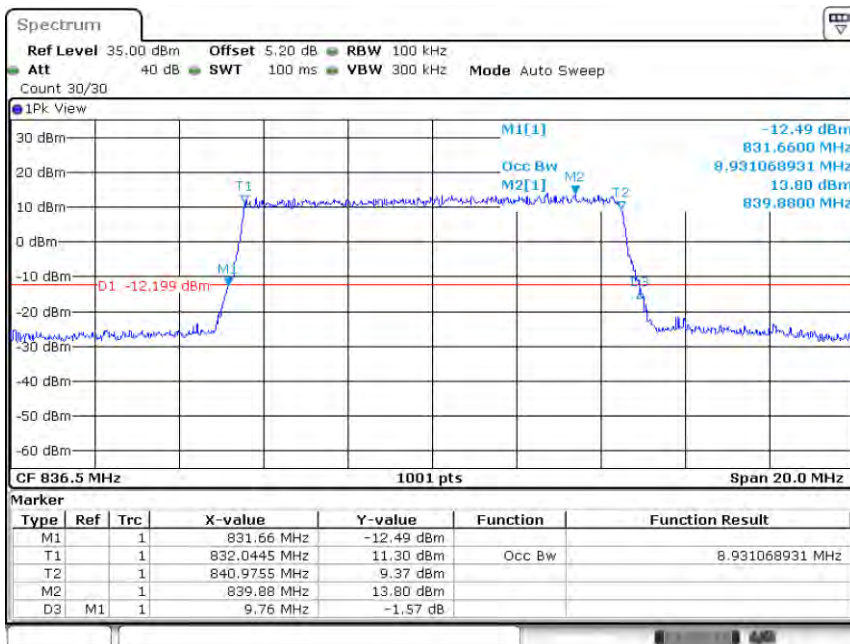
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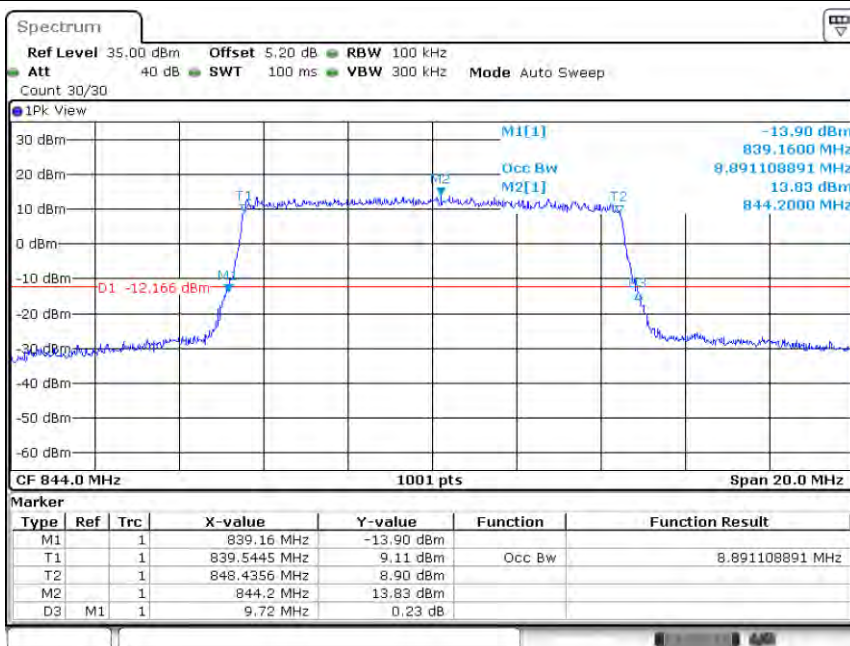
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Band5-10MHz-16QAM-20525-50RB#0-8.931



Date: 28.SEP.2020 11:01:53

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



Date: 28.SEP.2020 11:02:25



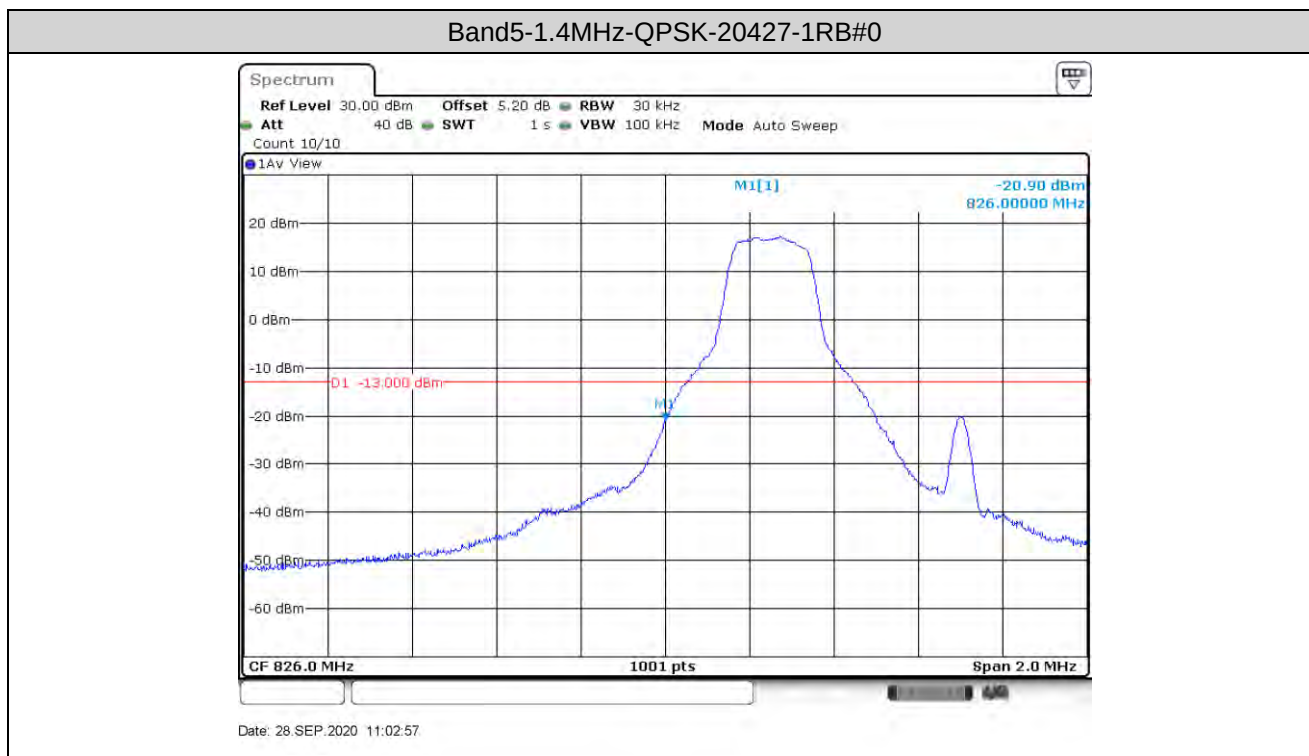
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5. Band Edge Compliance

5.1. Test Plots



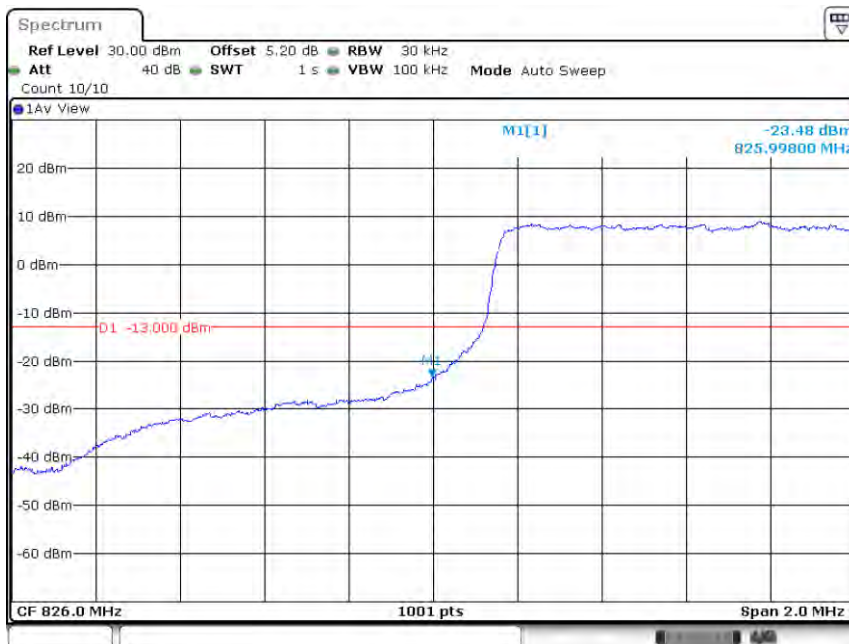
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Band5-1.4MHz-QPSK-20427-6RB#0



Date: 28.SEP.2020 11:03:44

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



Date: 28.SEP.2020 11:04:39



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



Date: 28.SEP.2020 11:05:26

Band5-1.4MHz-16QAM-20427-1RB#0

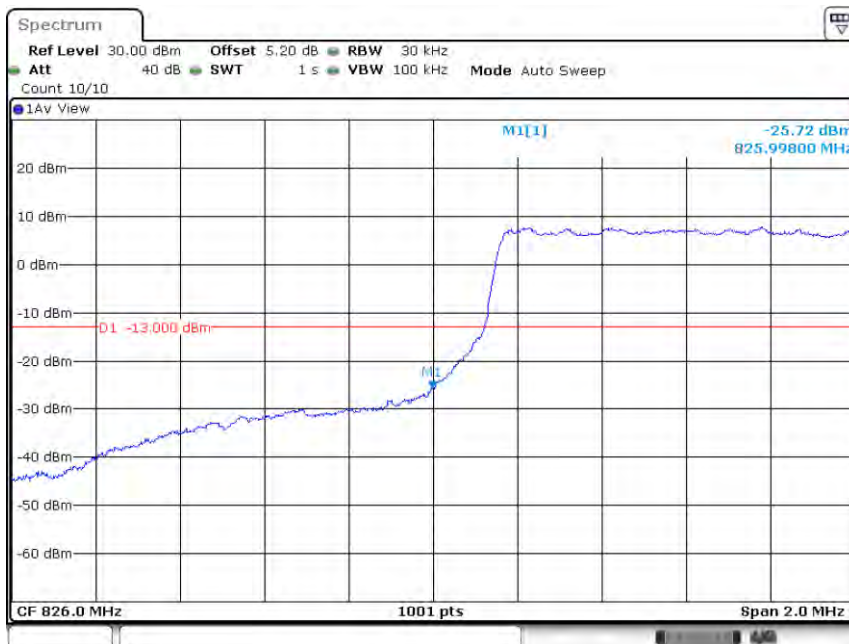


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Band5-1.4MHz-16QAM-20427-6RB#0



Date: 28.SEP.2020 11:04:07

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

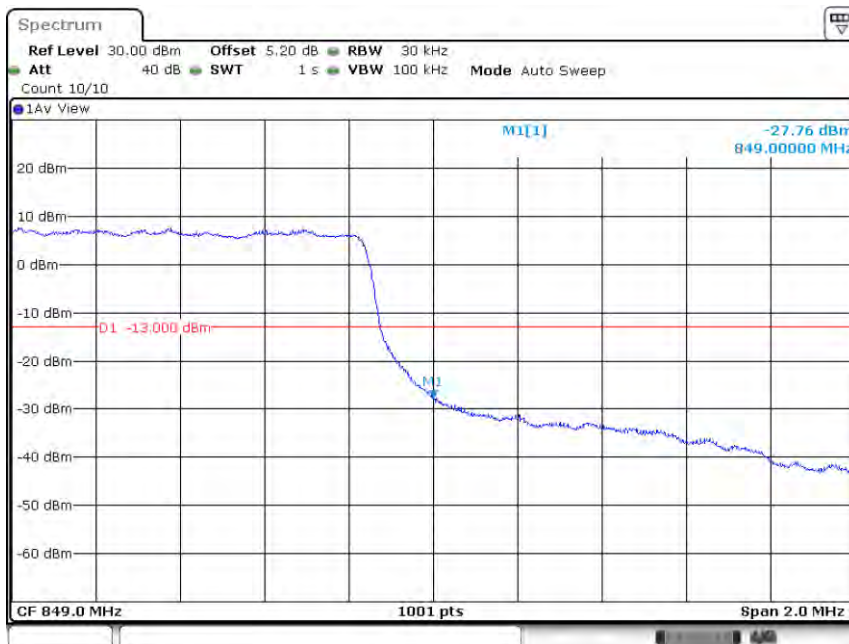


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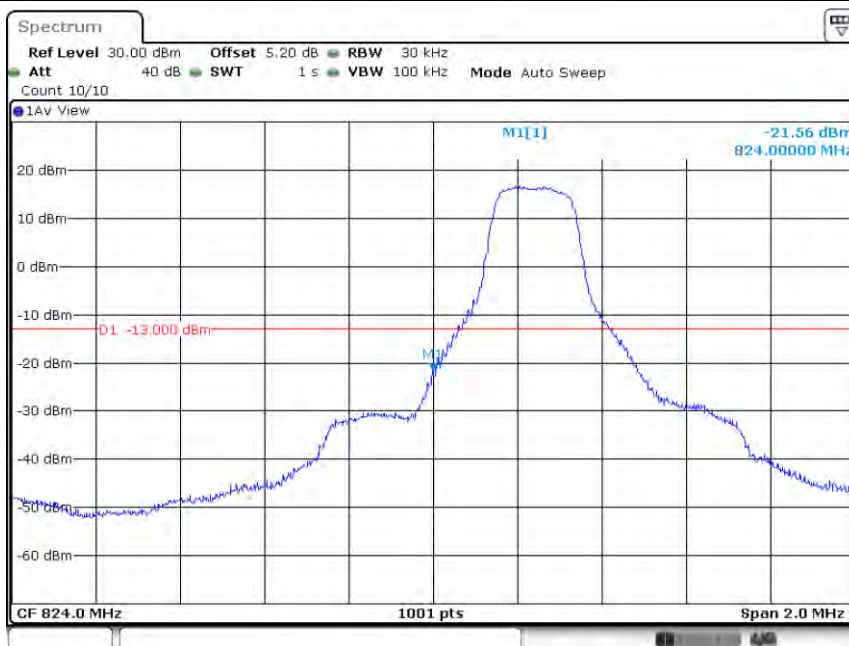
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Band5-1.4MHz-16QAM-20643-6RB#0



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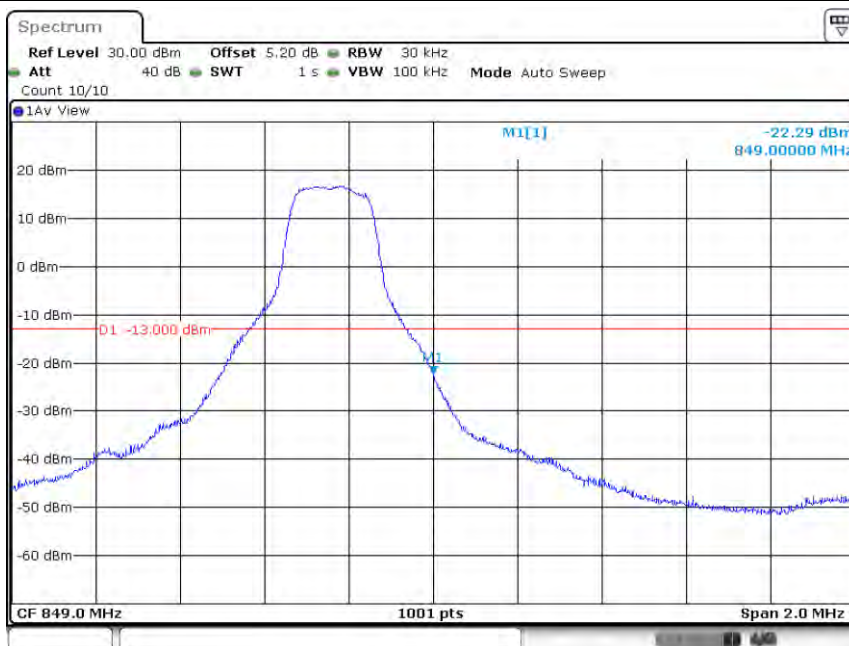
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Band5-3MHz-QPSK-20415-15RB#0



Date: 28.SEP.2020 11:07:08

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



Date: 28.SEP.2020 11:08:03

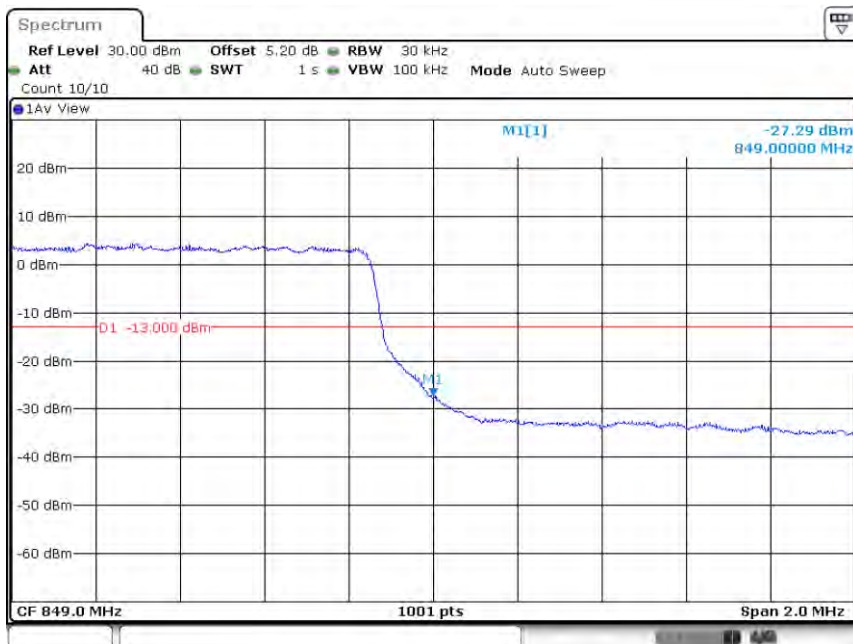


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Band5-3MHz-QPSK-20635-15RB#0



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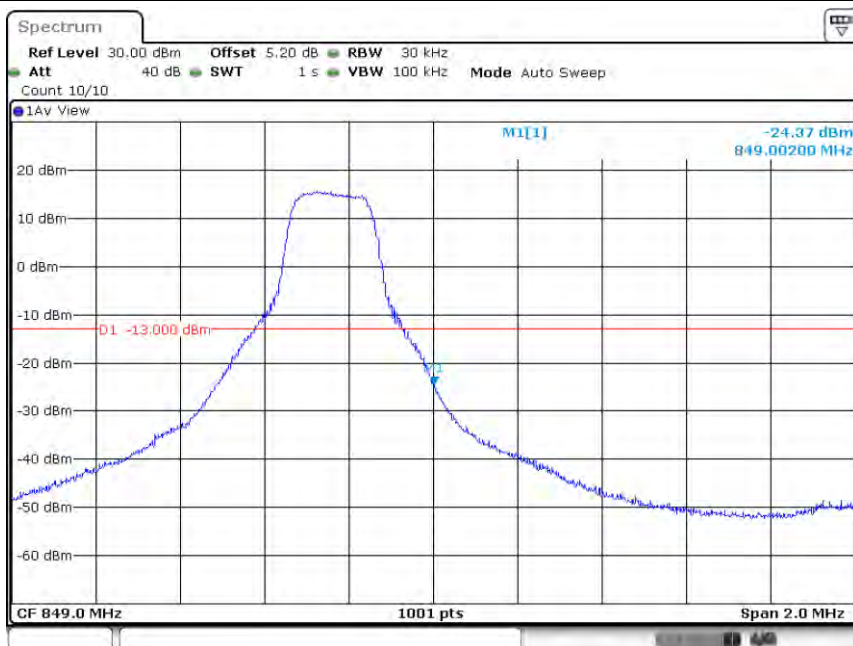
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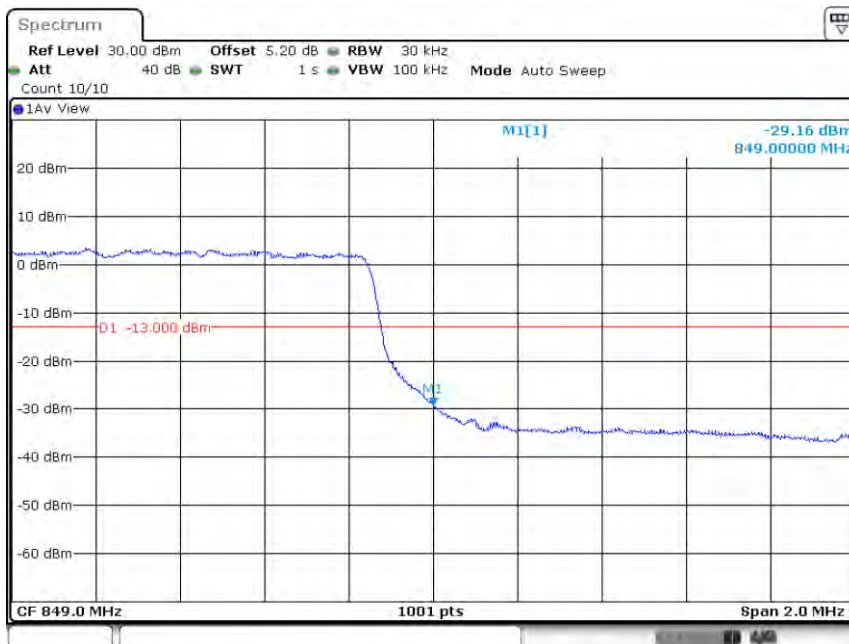
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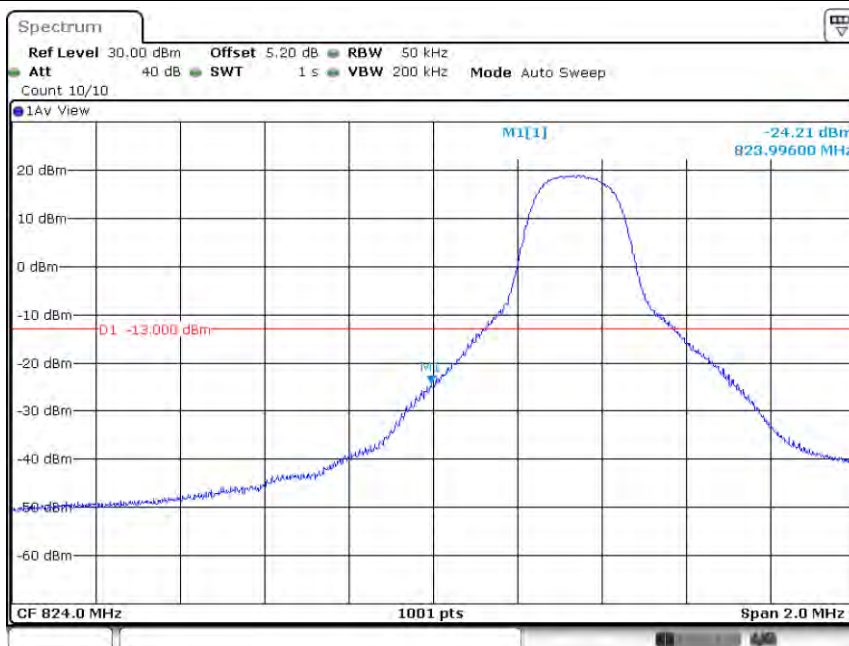
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Band5-3MHz-16QAM-20635-15RB#0



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



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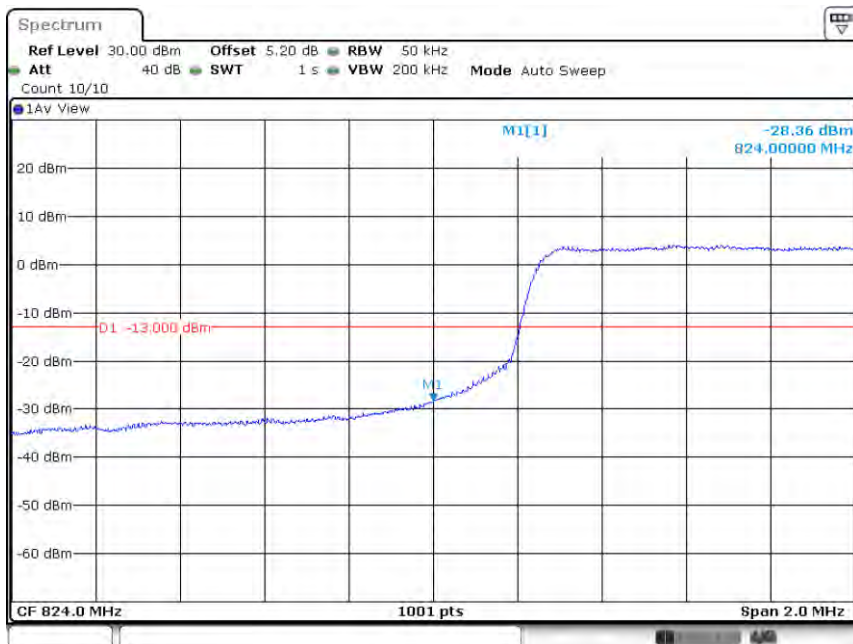


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Band5-5MHz-QPSK-20425-25RB#0



Date: 28.SEP.2020 11:10:32

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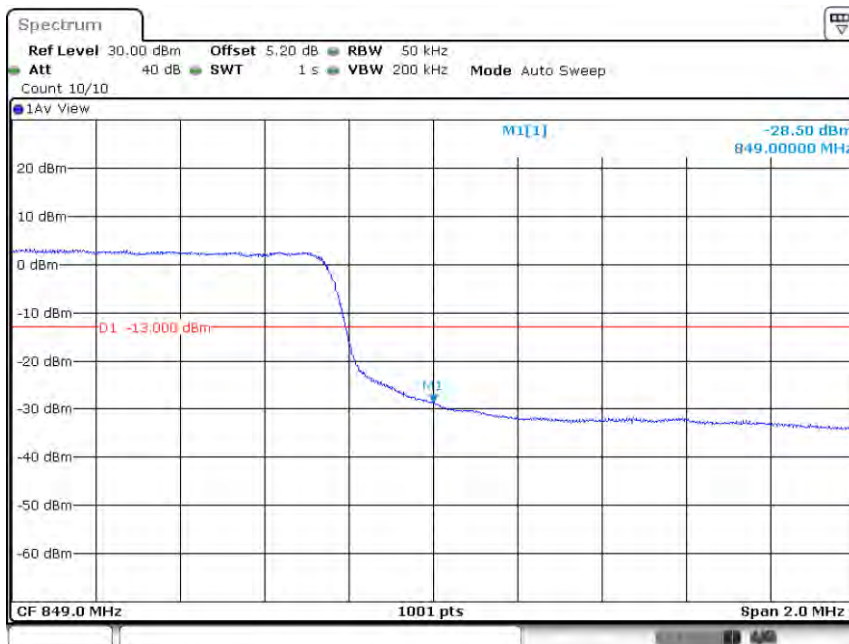


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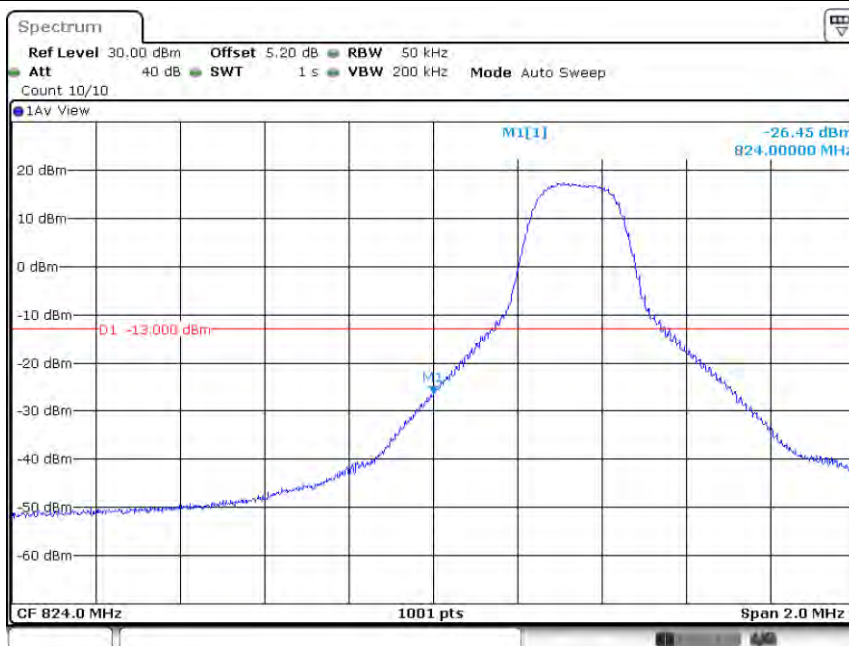
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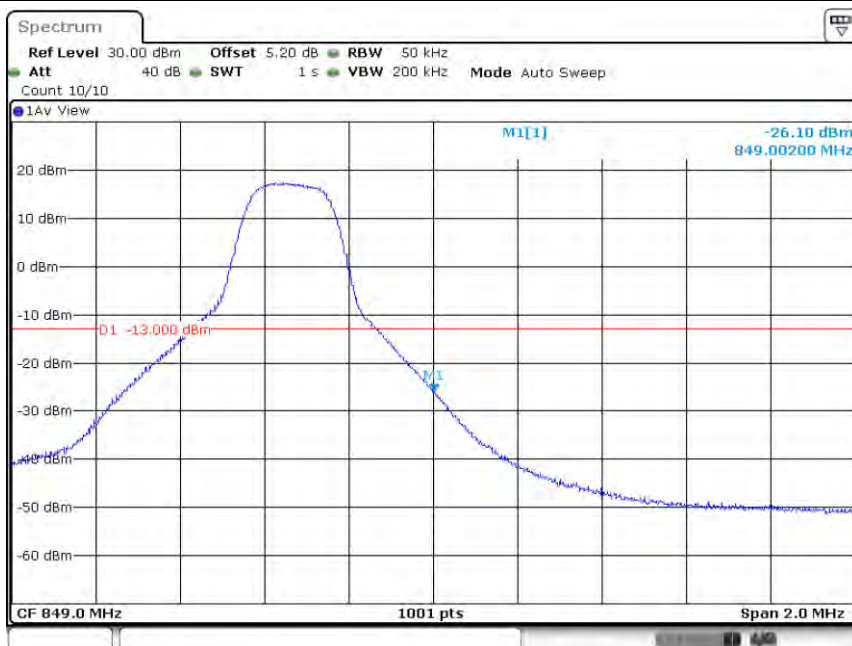
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Band5-5MHz-16QAM-20425-25RB#0



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Band5-5MHz-16QAM-20625-1RB#24



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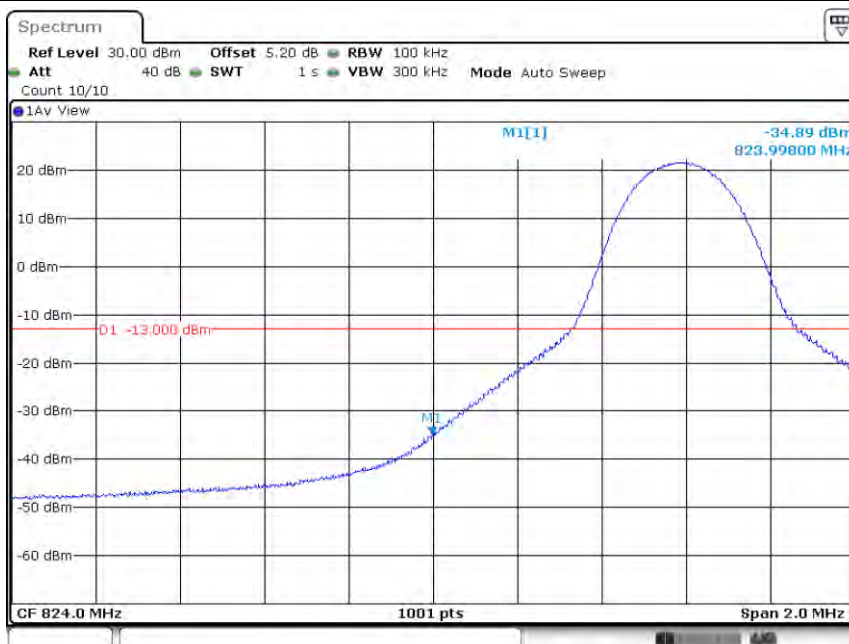


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Date: 28.SEP.2020 11:12:37

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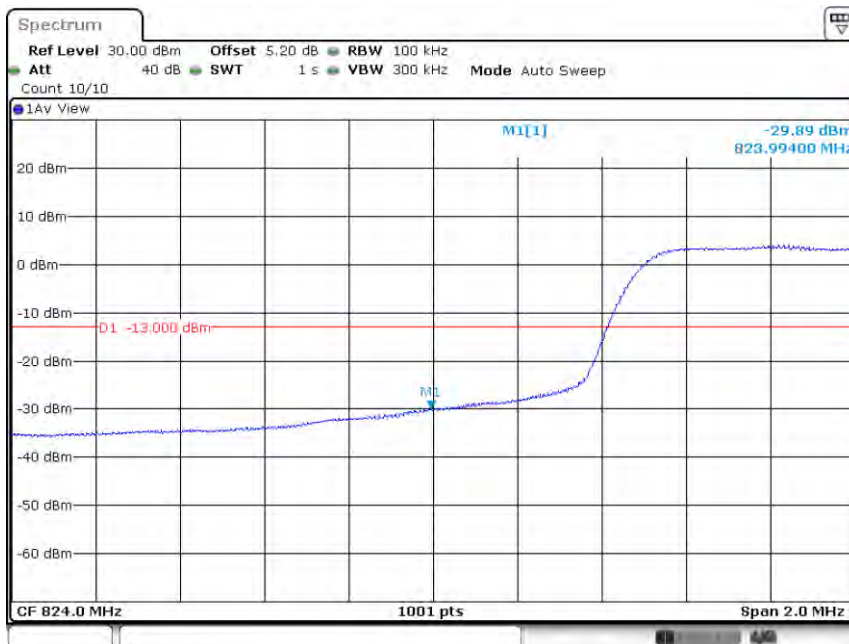


Date: 28.SEP.2020 11:13:09



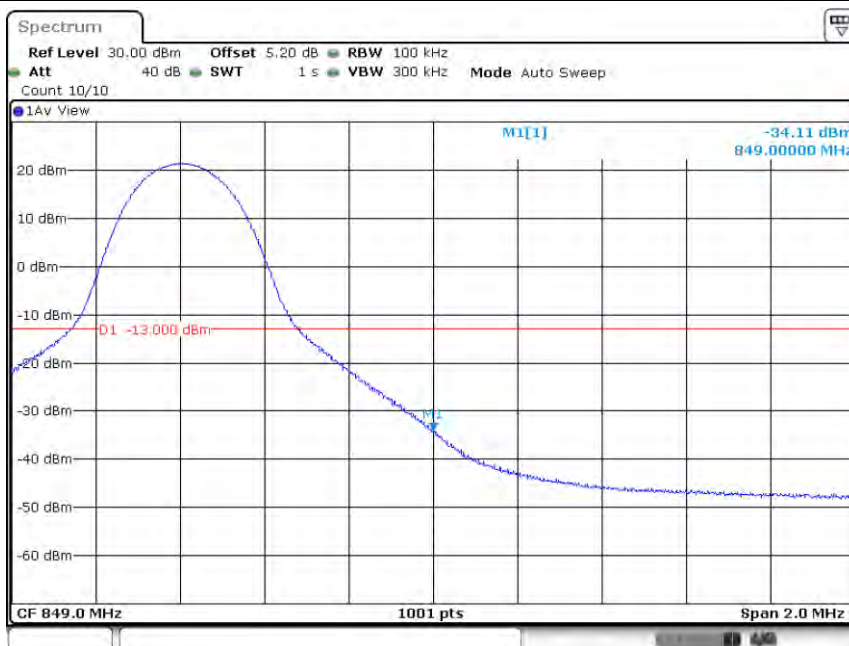
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Band5-10MHz-QPSK-20450-50RB#0



Date: 28.SEP.2020 11:13:56

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

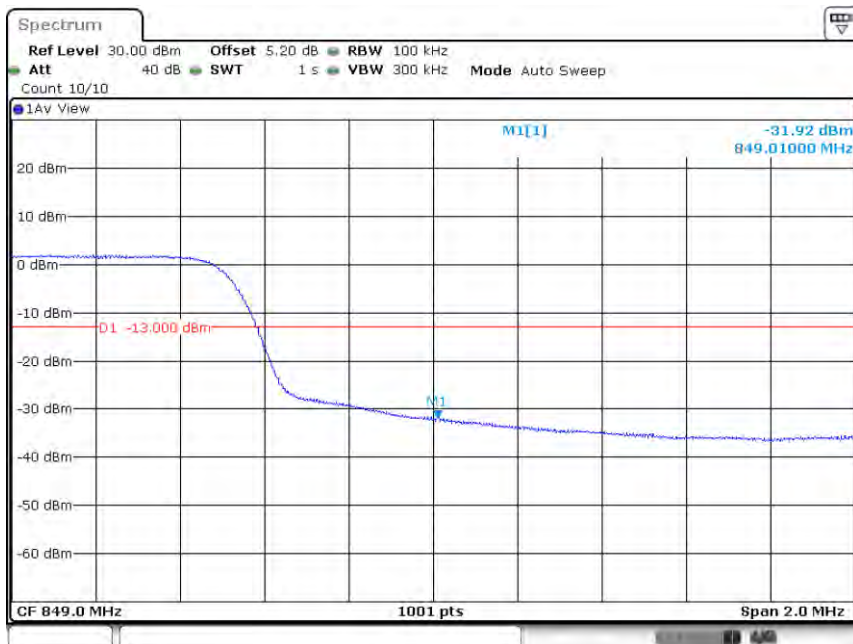


Date: 28.SEP.2020 11:14:51



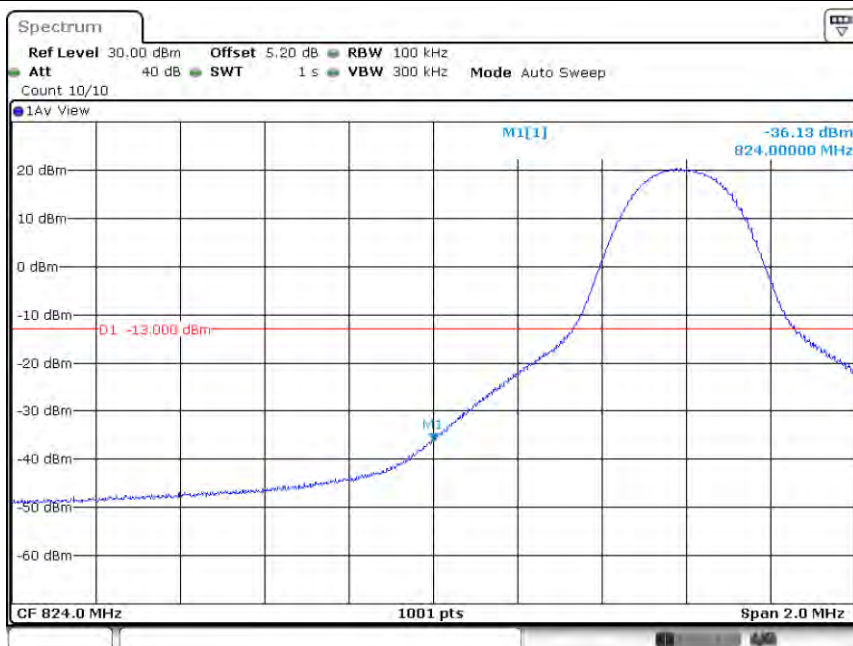
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Band5-10MHz-QPSK-20600-50RB#0



Date: 28.SEP.2020 11:15:38

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



Date: 28.SEP.2020 11:13:33



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



Date: 28.SEP.2020 11:14:20

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



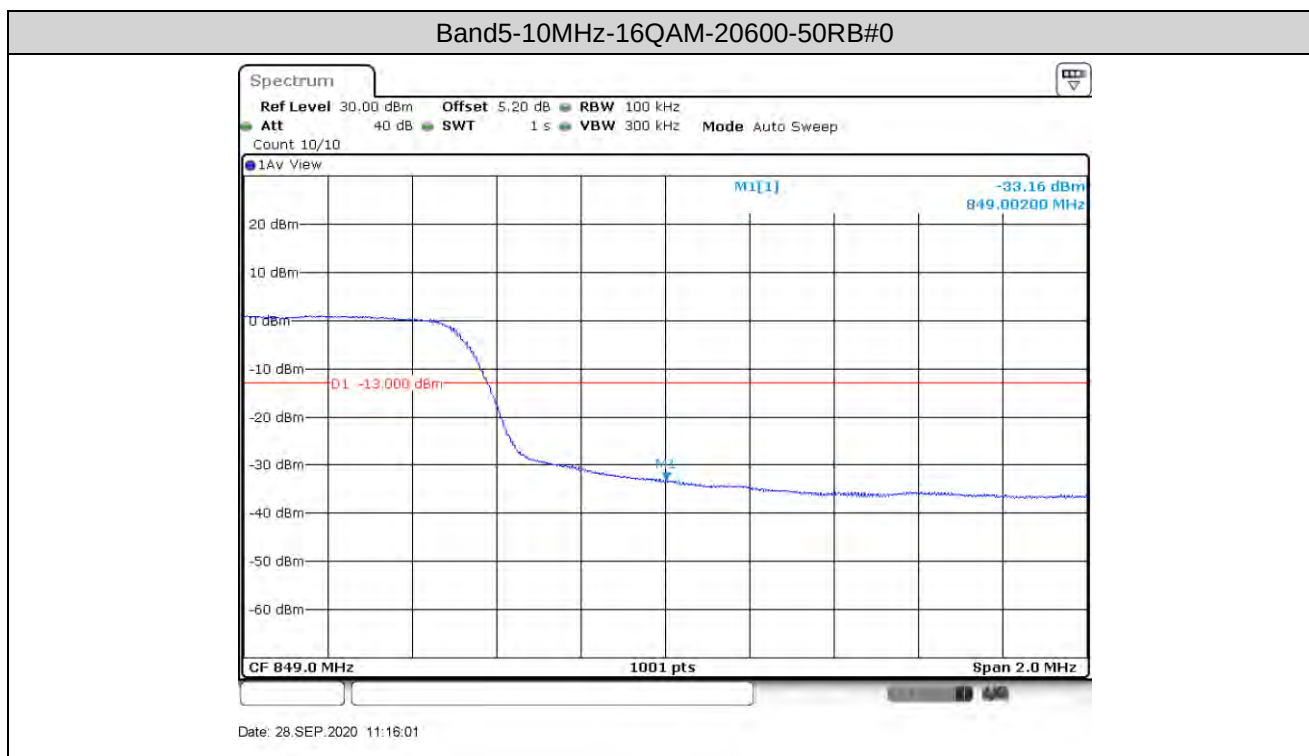
Date: 28.SEP.2020 11:15:14



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Shenzhen Branch (SGS-CSTC) Laboratory

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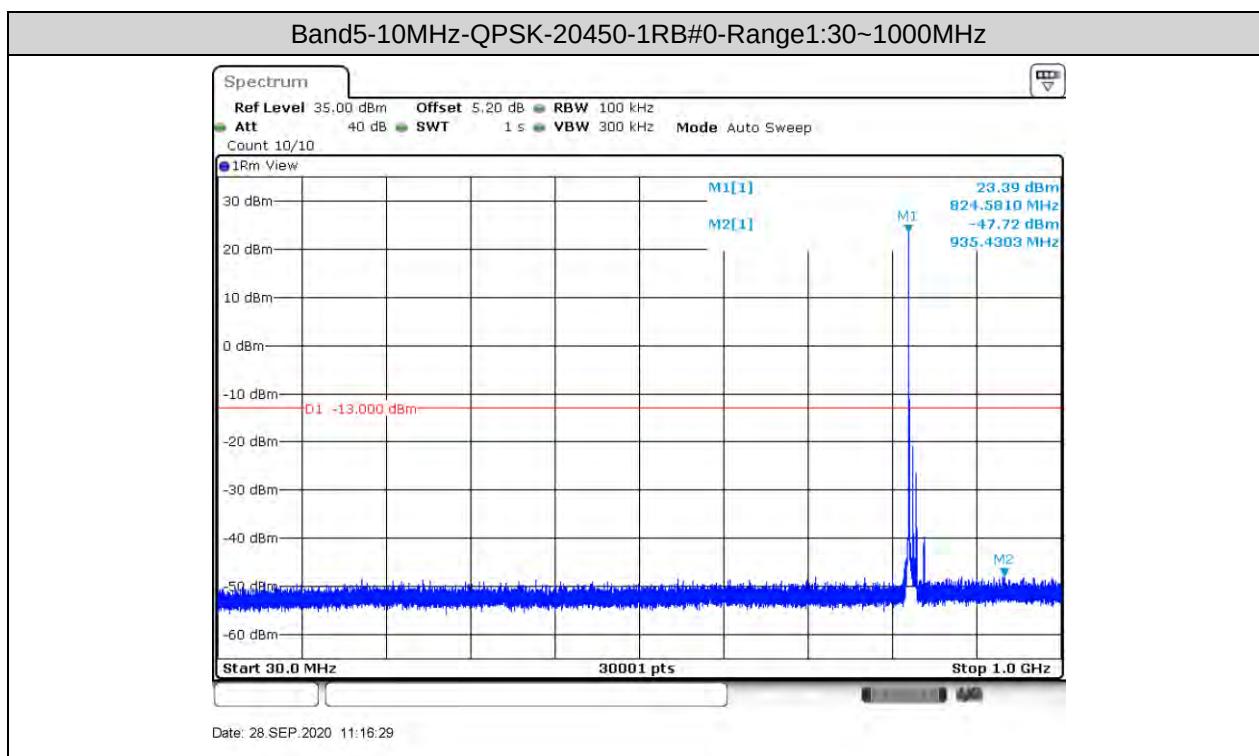


6. Spurious Emission at Antenna Terminal

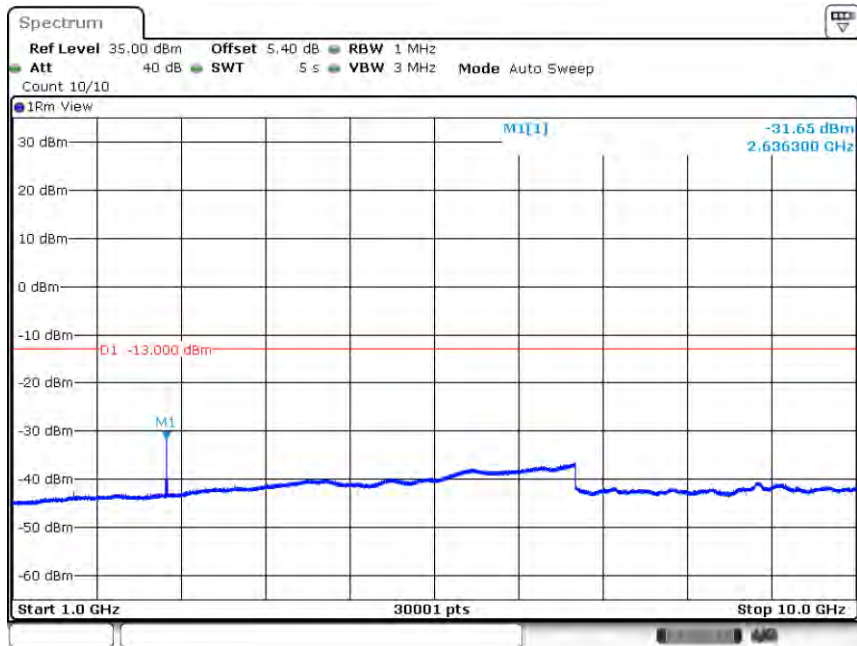
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

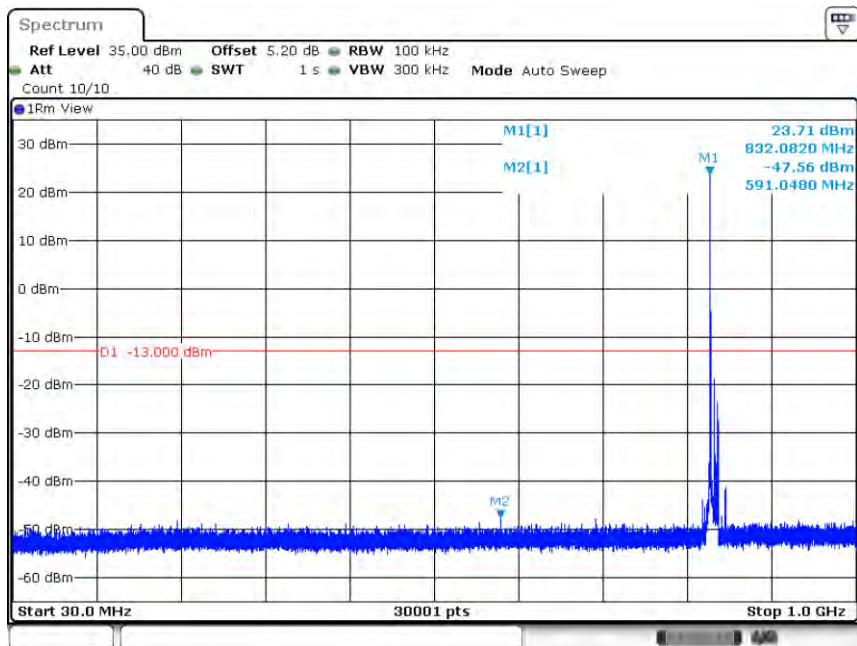


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 11:17:37

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



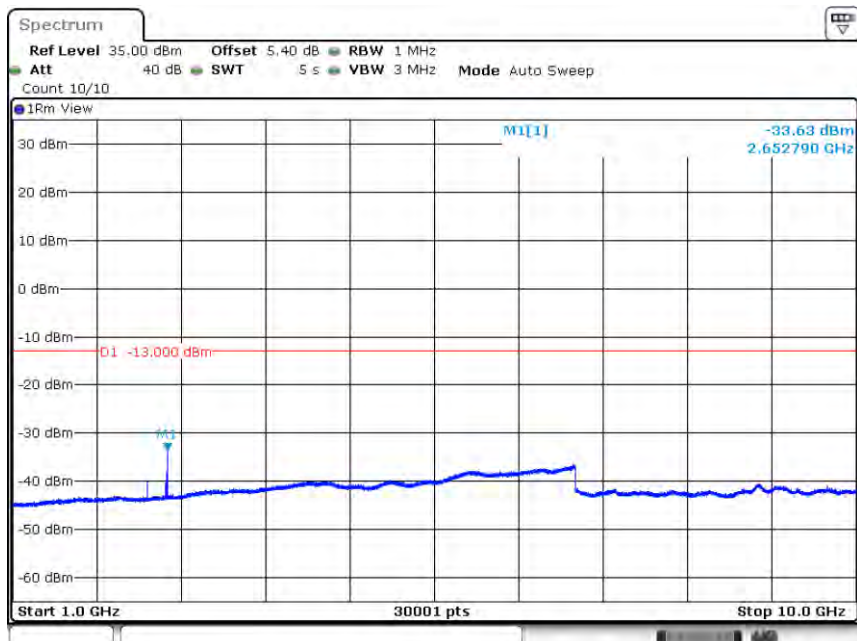
Date: 28.SEP.2020 11:19:31



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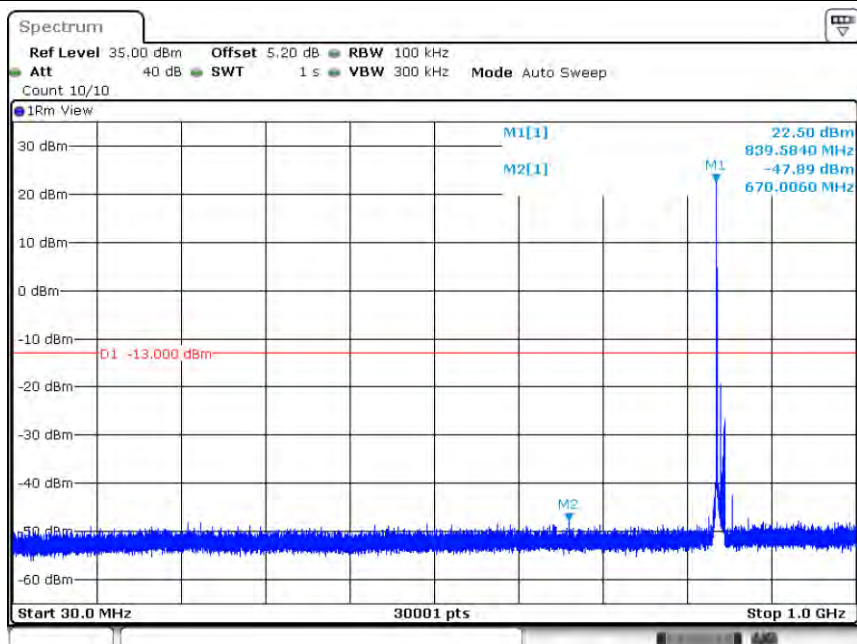
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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 11:20:39

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



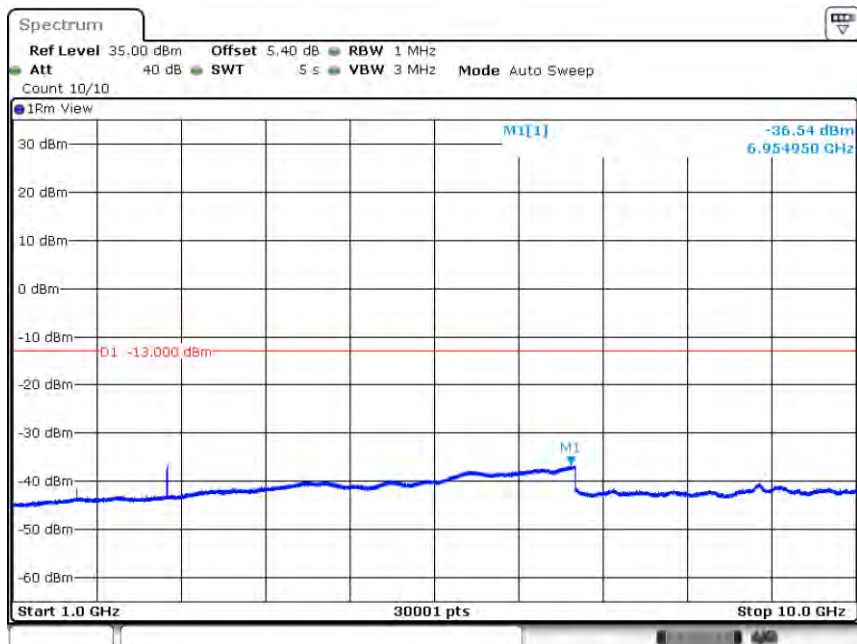
Date: 28.SEP.2020 11:22:33



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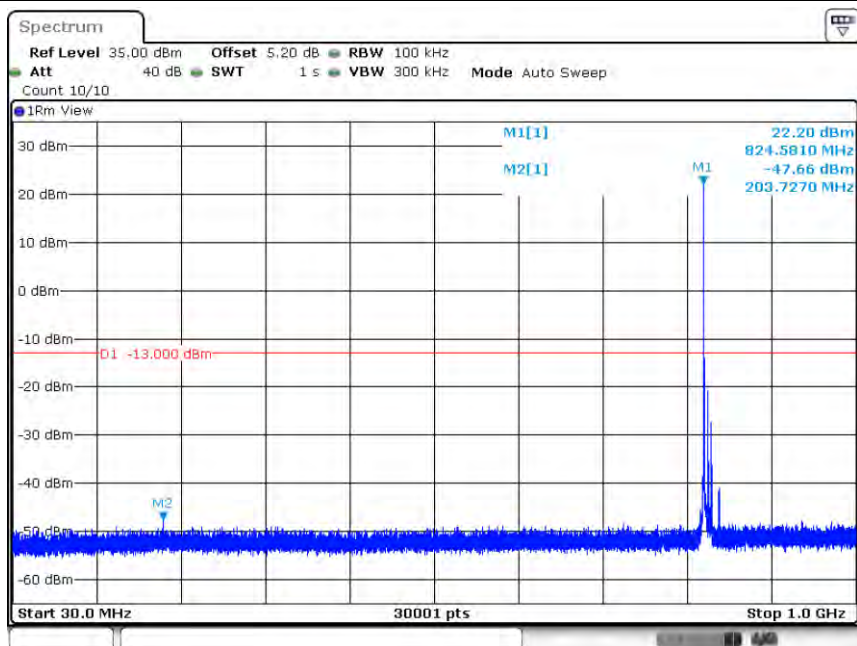
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Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 11:23:41

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



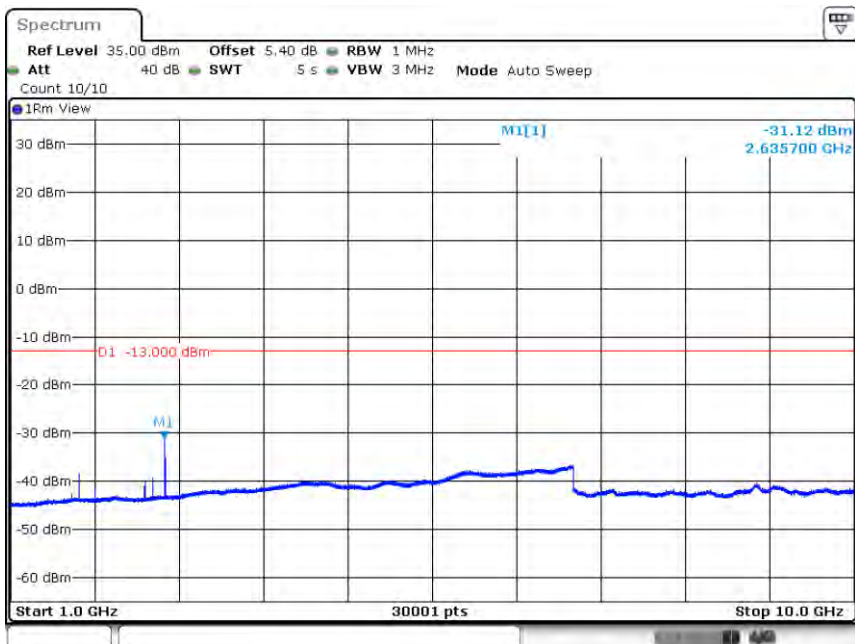
Date: 28.SEP.2020 11:18:00



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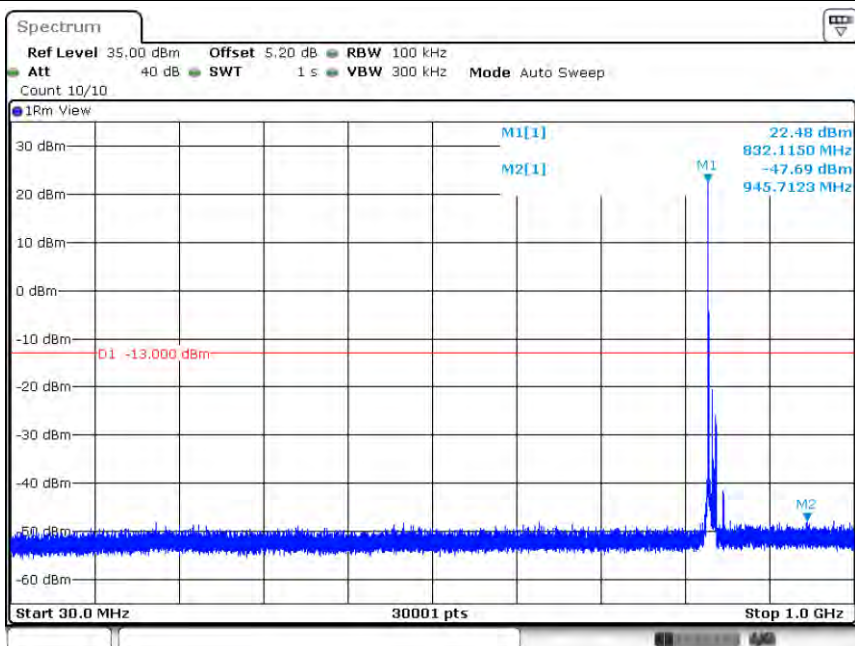
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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 11:19:08

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



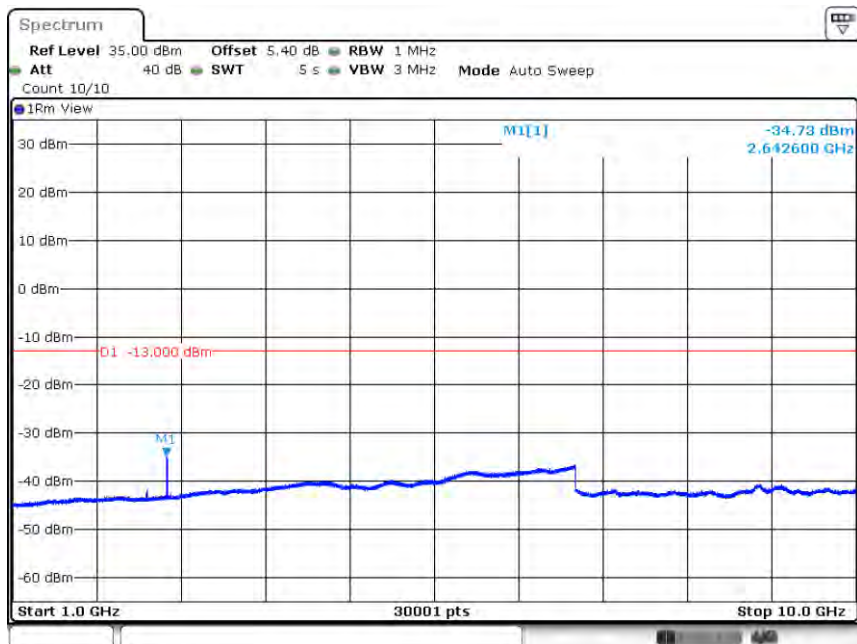
Date: 28.SEP.2020 11:21:01



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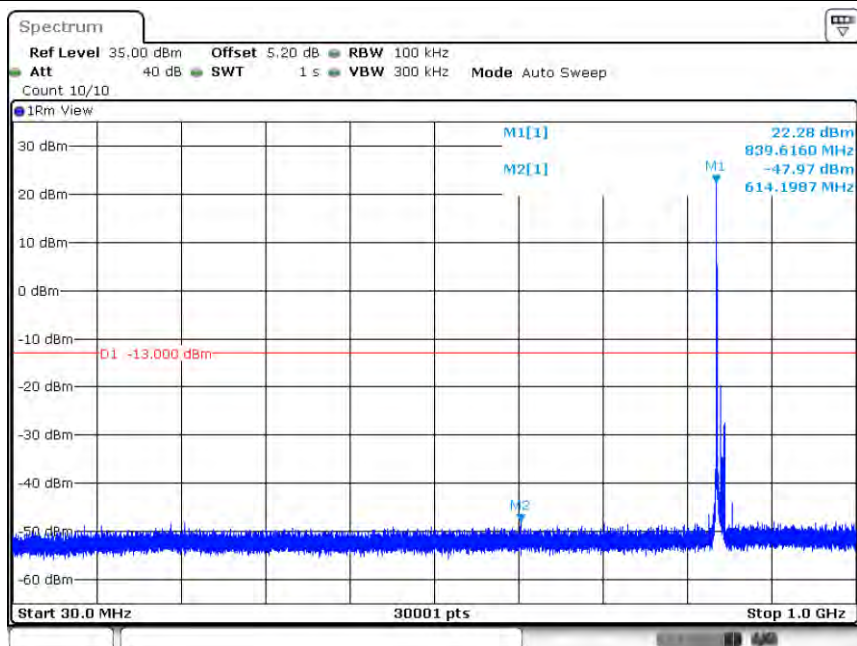
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Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 28.SEP.2020 11:22:10

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz

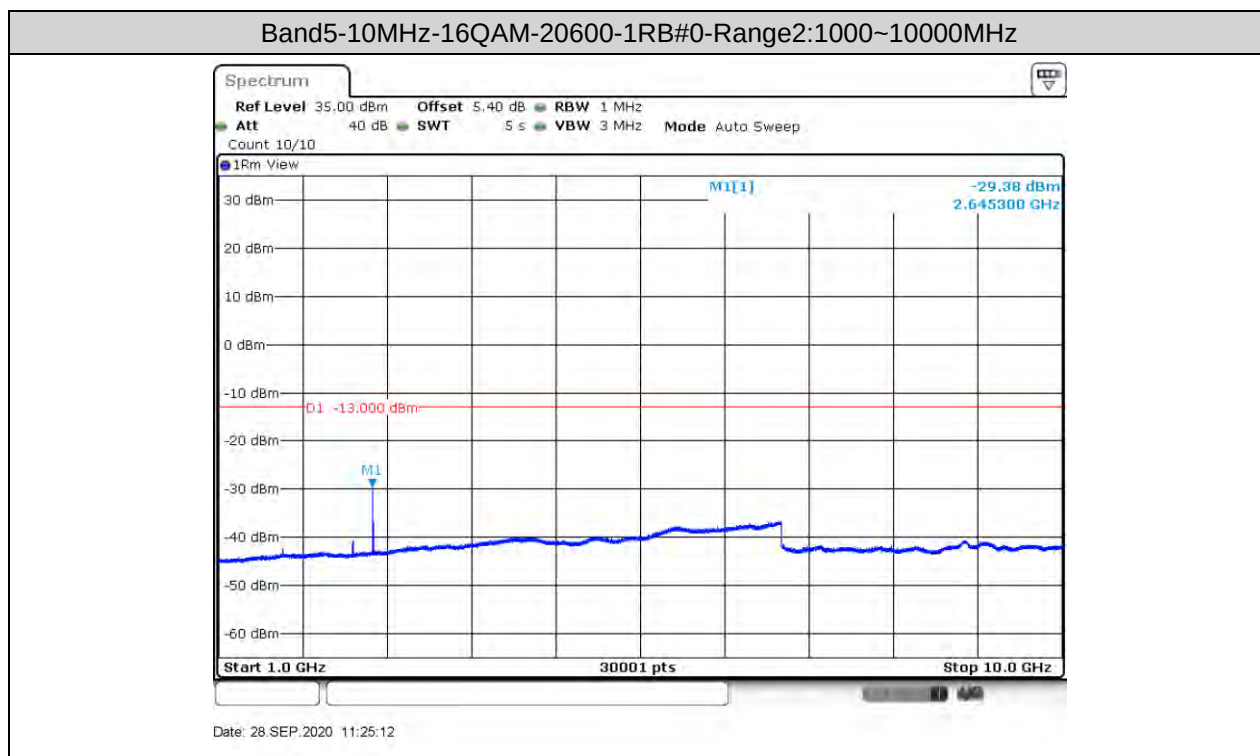


Date: 28.SEP.2020 11:24:03



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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
31.1641	-66.36	-13.00	53.36	Vertical
110.2230	-62.31	-13.00	49.31	Vertical
459.1010	-64.19	-13.00	51.19	Vertical
1699.7399	-61.15	-13.00	48.15	Vertical
2714.3429	-57.38	-13.00	44.38	Vertical
9873.2958	-52.17	-13.00	39.17	Vertical
44.8417	-62.39	-13.00	49.39	Horizontal
85.0988	-73.87	-13.00	60.87	Horizontal
234.8742	-65.06	-13.00	52.06	Horizontal
1649.3299	-60.68	-13.00	47.68	Horizontal
2697.1394	-56.10	-13.00	43.10	Horizontal
9332.1777	-52.68	-13.00	39.68	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.2126	-68.97	-13.00	55.97	Vertical
111.9206	-62.47	-13.00	49.47	Vertical
467.7829	-64.08	-13.00	51.08	Vertical
1664.1328	-60.06	-13.00	47.06	Vertical
2706.3413	-57.47	-13.00	44.47	Vertical
9881.9294	-52.32	-13.00	39.32	Vertical
42.8531	-62.57	-13.00	49.57	Horizontal
110.4655	-73.70	-13.00	60.70	Horizontal
227.8899	-65.66	-13.00	52.66	Horizontal
1664.1328	-53.81	-13.00	40.81	Horizontal
2699.9400	-56.25	-13.00	43.25	Horizontal
9595.6199	-53.12	-13.00	40.12	Horizontal





7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.0186	-70.17	-13.00	57.17	Vertical
110.5140	-62.49	-13.00	49.49	Vertical
373.0577	-65.70	-13.00	52.70	Vertical
1700.1400	-61.36	-13.00	48.36	Vertical
2699.5399	-57.50	-13.00	44.50	Vertical
9883.3294	-52.24	-13.00	39.24	Vertical
42.3681	-62.27	-13.00	49.27	Horizontal
83.6922	-72.78	-13.00	59.78	Horizontal
226.8228	-64.91	-13.00	51.91	Horizontal
1678.9358	-61.38	-13.00	48.38	Horizontal
2696.3393	-56.17	-13.00	43.17	Horizontal
7461.7154	-56.37	-13.00	43.37	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 Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	3.50	0.004222	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.80	0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	1.00	0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.60	0.001930	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	1.80	0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	1.10	0.001315	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	2.40	0.002844	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	1.80	0.002133	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	1.40	0.001659	±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	0.40	0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	3.40	0.004101	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	1.90	0.002292	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	2.20	0.002654	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	3.50	0.004222	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	1.20	0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.60	0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	3.00	0.003586	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	1.20	0.001435	±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	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	1.20	0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	0.80	0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	1.30	0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	1.20	0.001422	±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	0.40	0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	1.00	0.001185	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.90	-0.002292	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	1.20	0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	2.50	0.003016	±2.5	PASS



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Band5	10MHz	16QAM	20450	50RB#0	NV	30	3.20	0.003860	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	3.10	0.003739	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	2.30	0.002774	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	2.50	0.002989	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	3.30	0.003945	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	2.60	0.003108	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	3.00	0.003586	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.90	0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	1.60	0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	0.90	0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	2.40	0.002844	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	1.20	0.001422	±2.5	PASS

The End

