

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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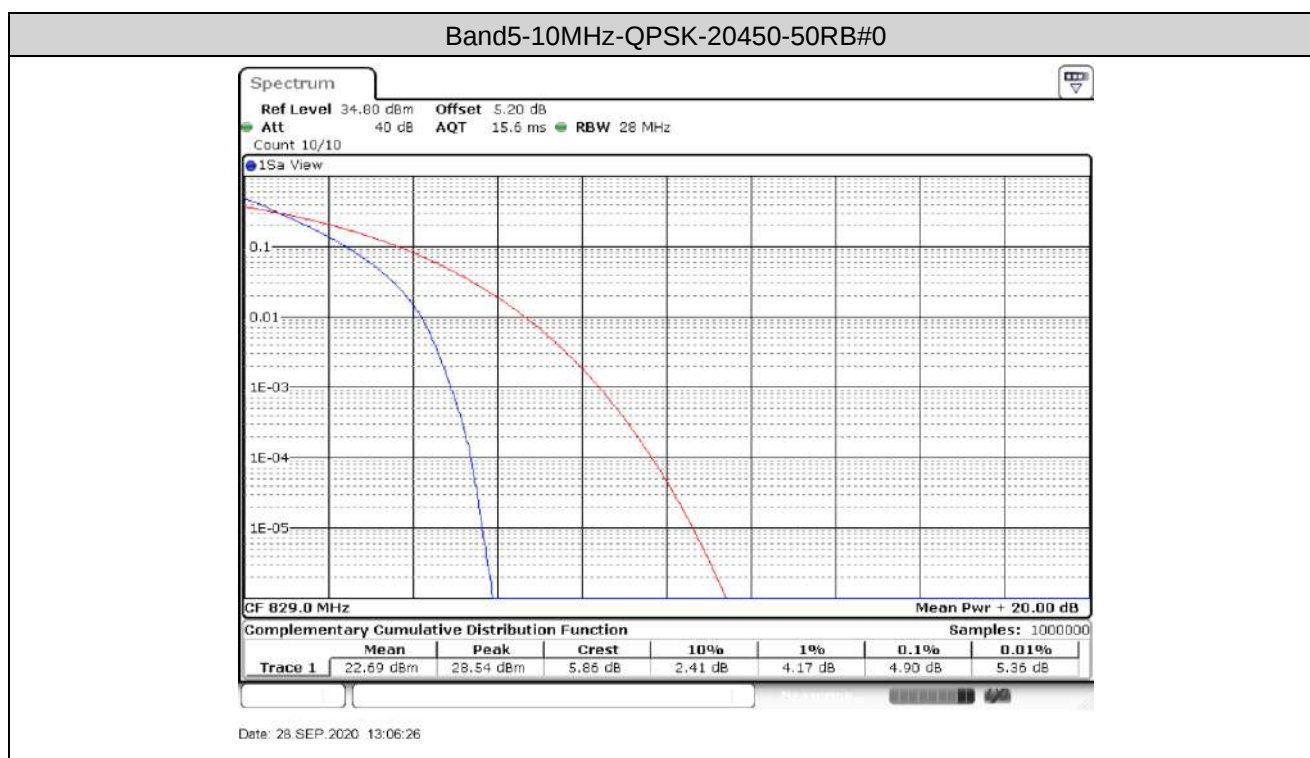
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2. Peak-to-Average Ratio (CCDF)

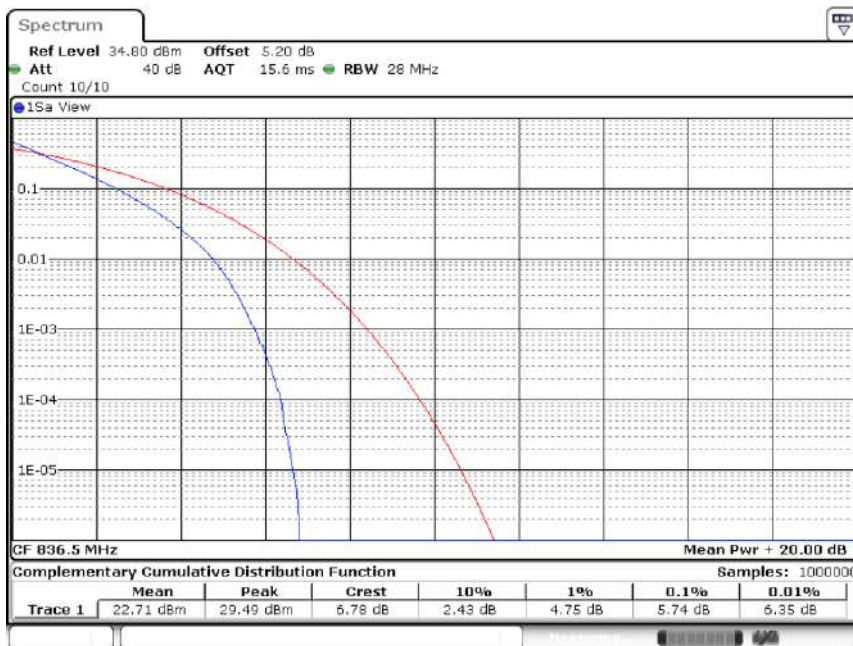
2.1. Test Result

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

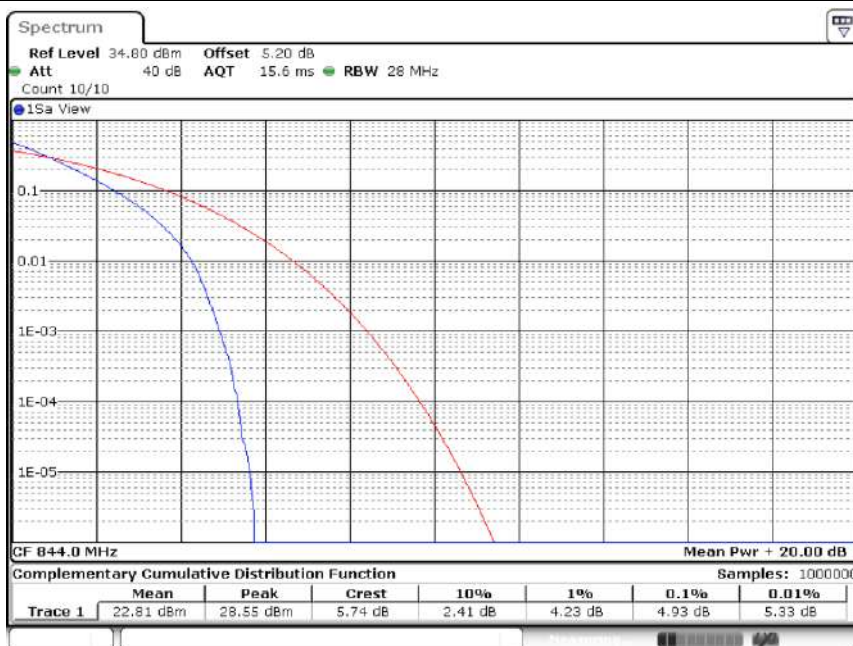


Band5-10MHz-QPSK-20525-50RB#0



Date: 28 SEP.2020 13:06:55

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



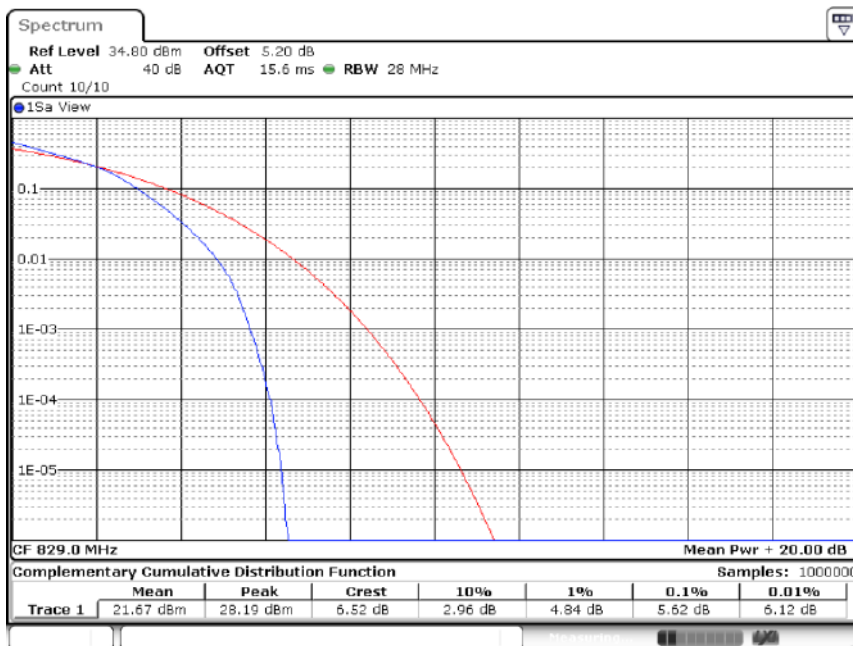
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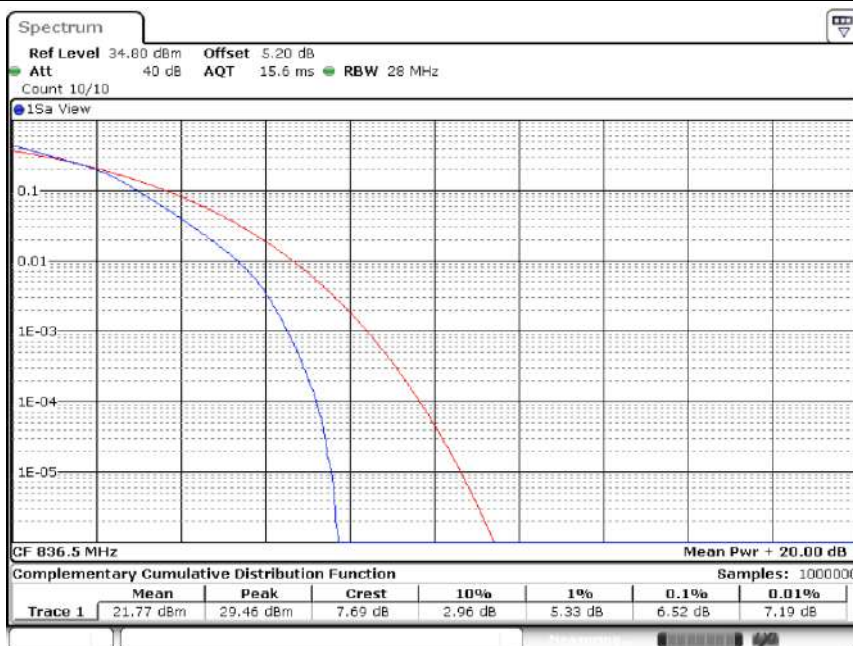
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Band5-10MHz-16QAM-20450-50RB#0



Date: 28 SEP.2020 13:06:40

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



Date: 28 SEP.2020 13:07:09



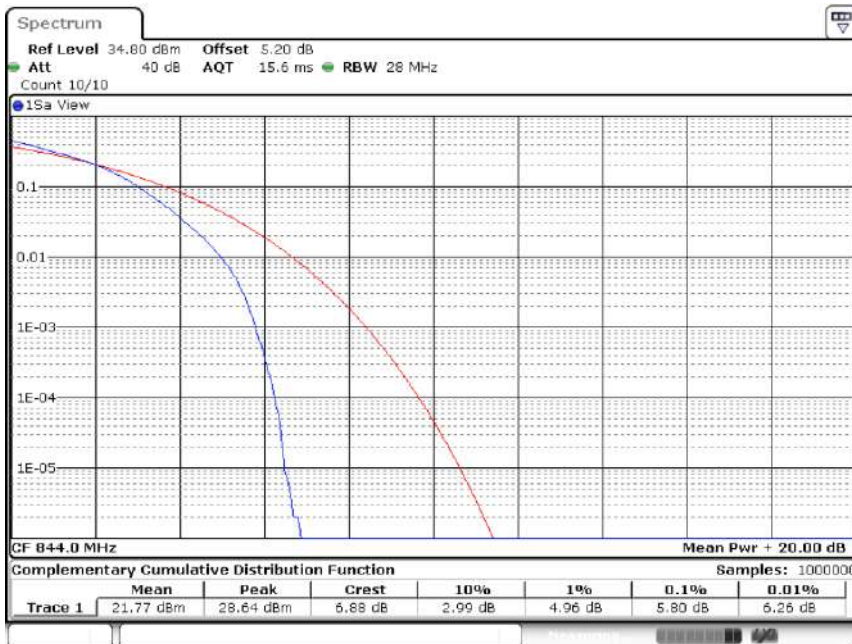
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Band5-10MHz-16QAM-20600-50RB#0



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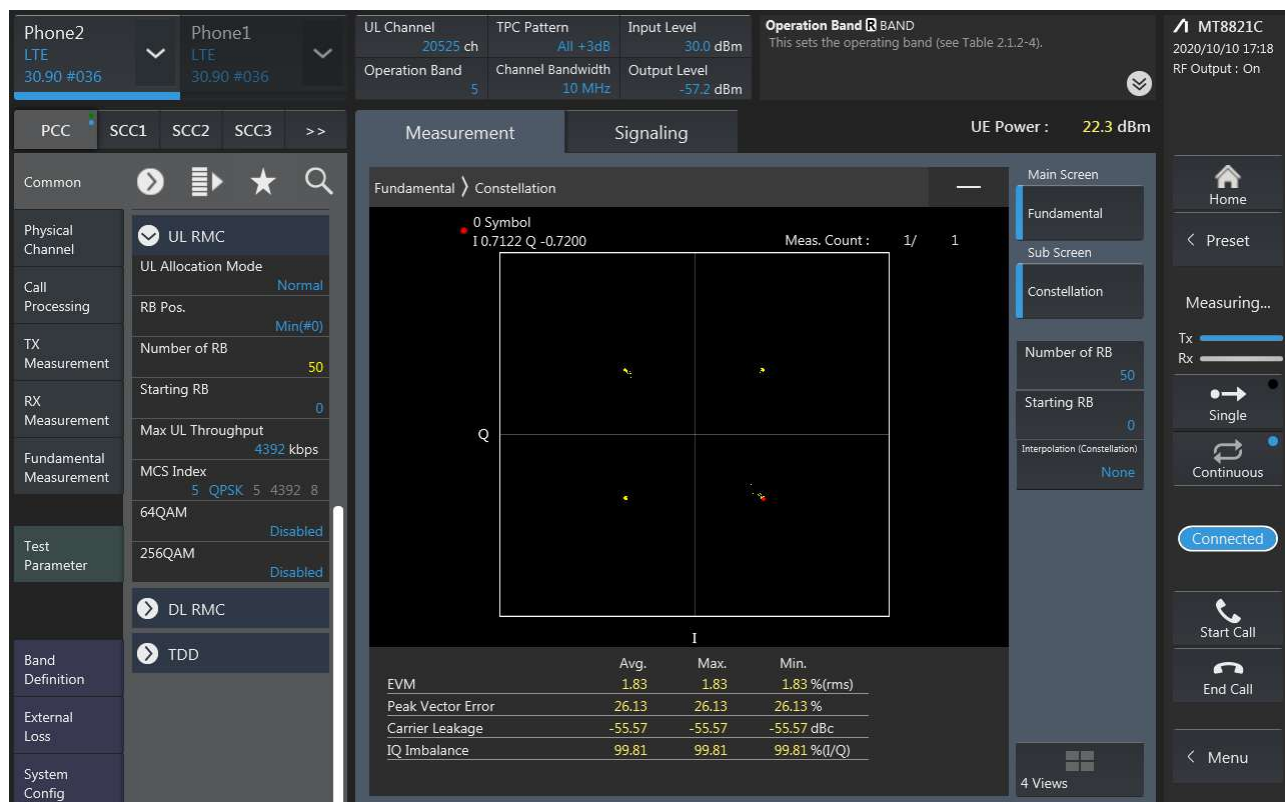
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

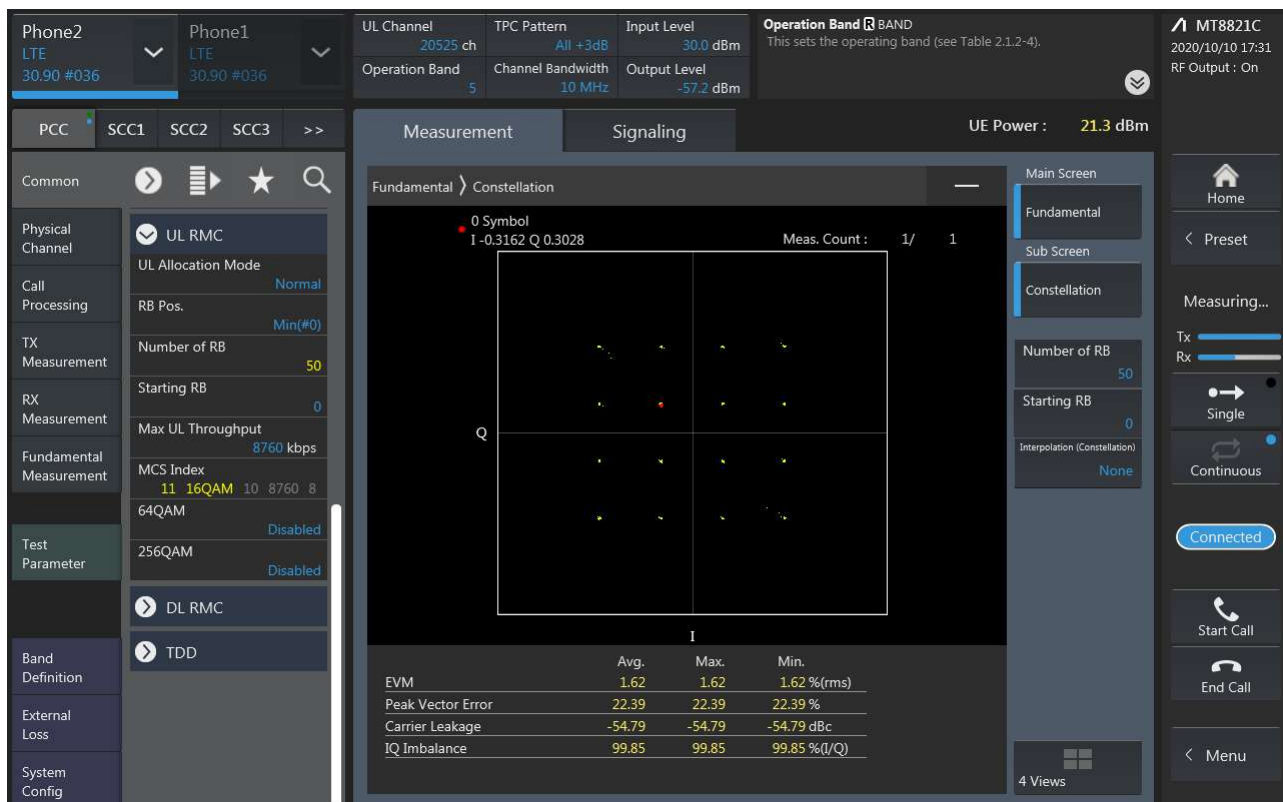
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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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	1.091	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

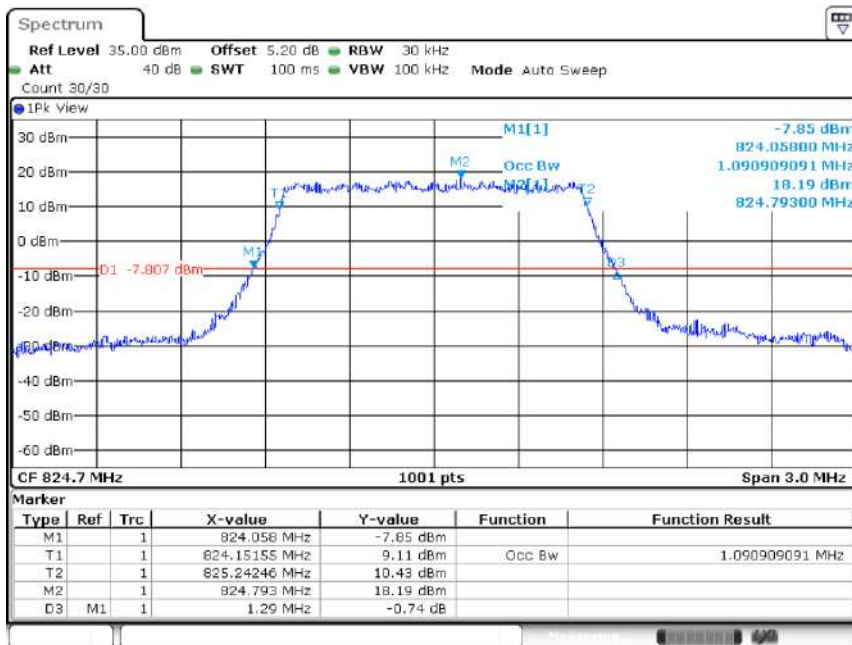


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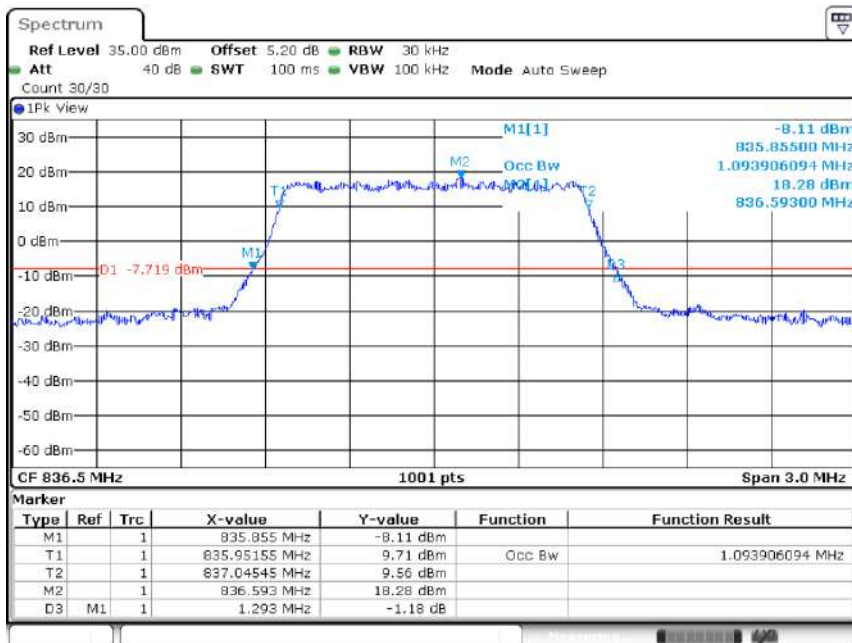
4.2. Test Plots

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



Date: 28 SEP 2020 12:36:16

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



Date: 28 SEP 2020 12:36:48



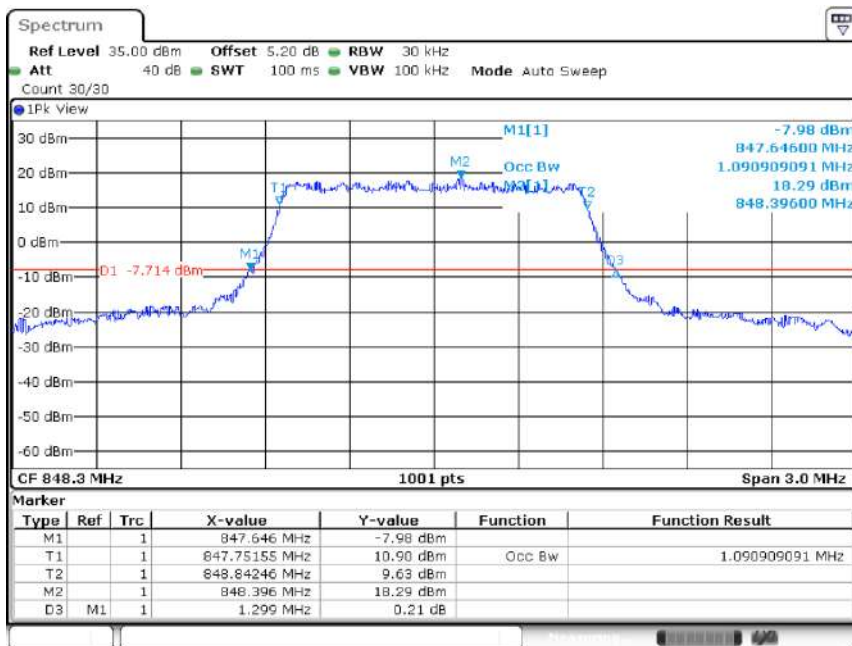
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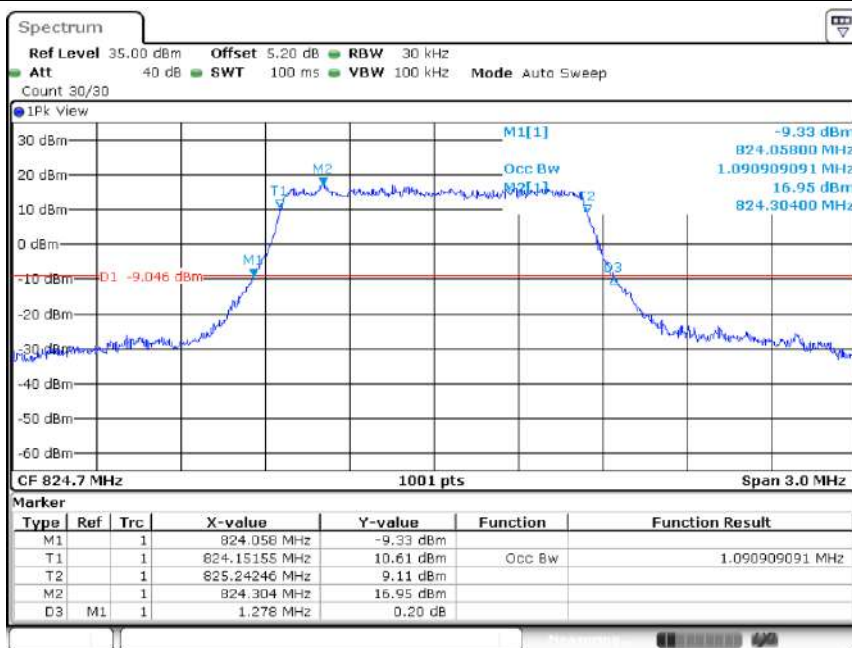
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Band5-1.4MHz-QPSK-20643-6RB#0-1.091



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



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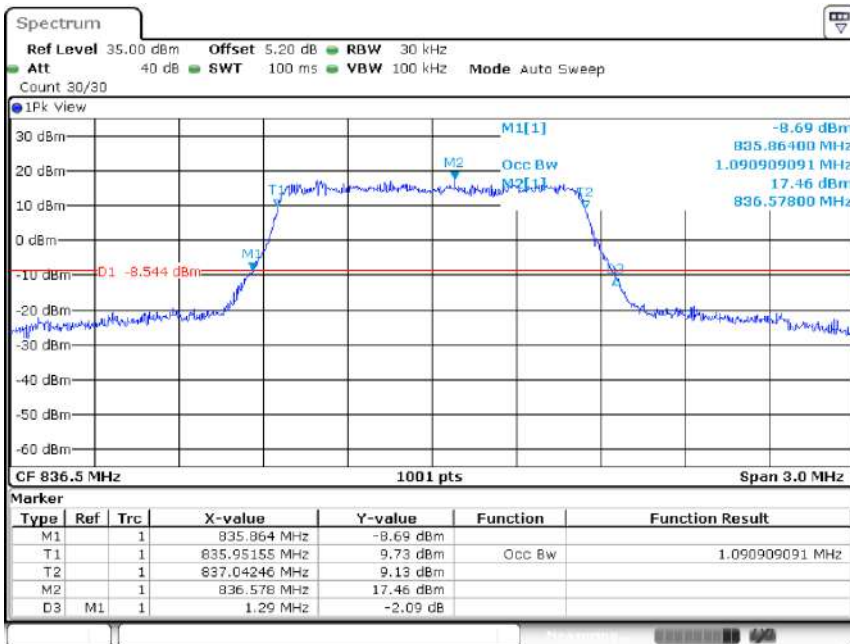
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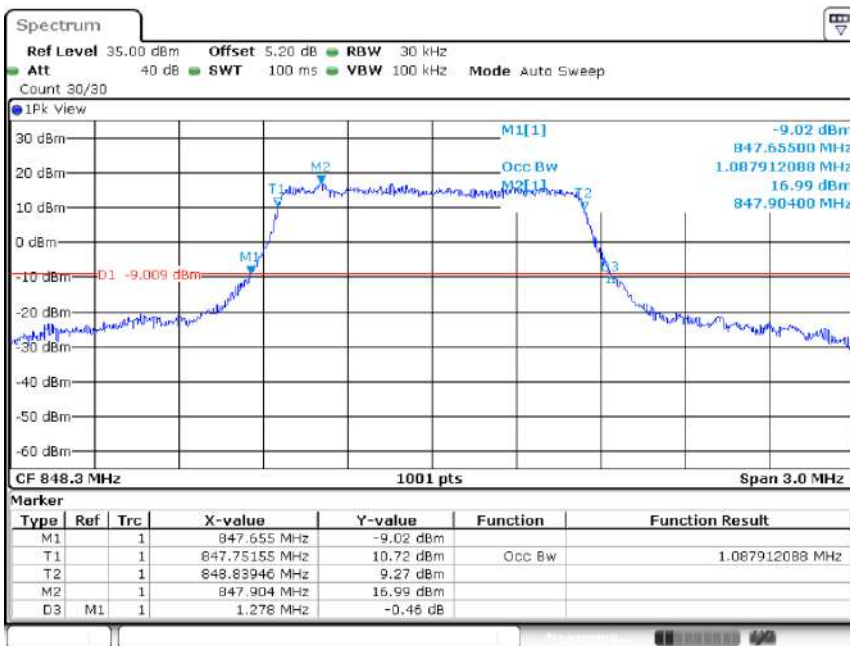
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Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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Band5-1.4MHz-16QAM-20643-6RB#0-1.088



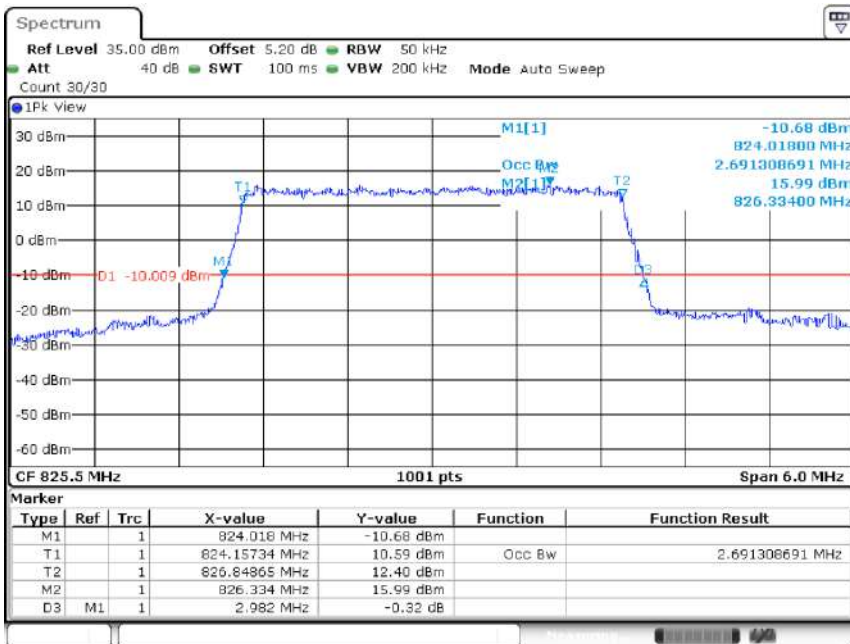
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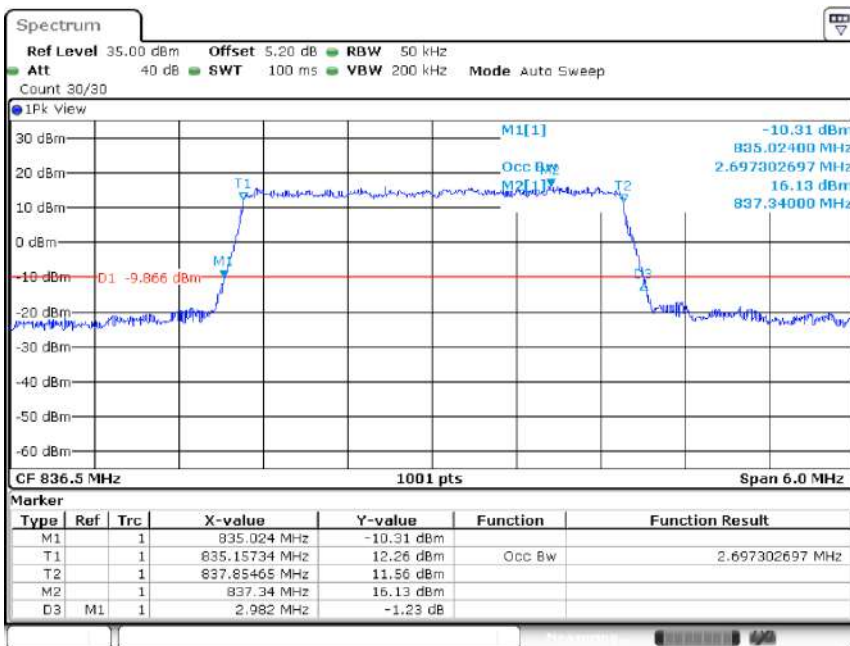
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Band5-3MHz-QPSK-20415-15RB#0-2.691



Date: 28.SEP.2020 12:37:57

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



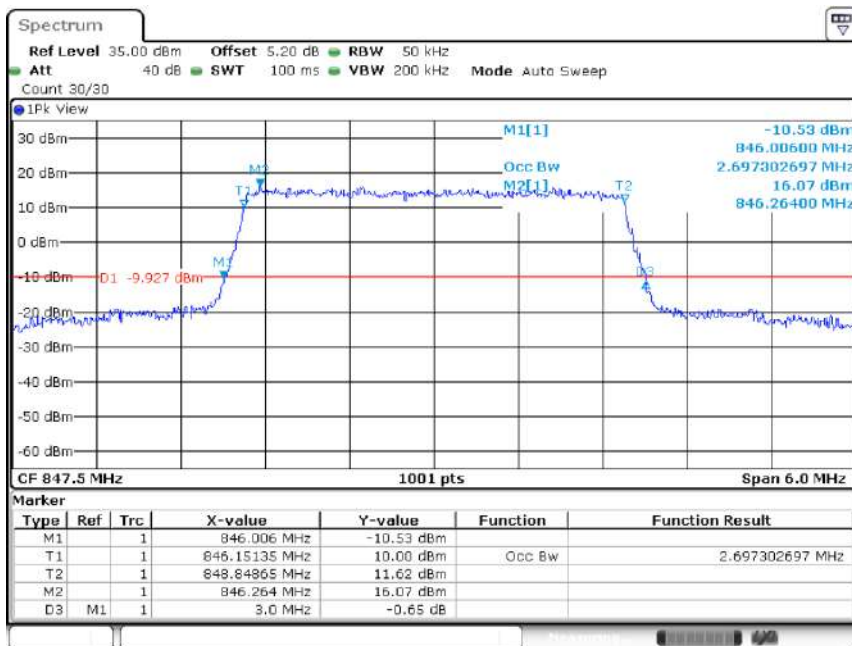
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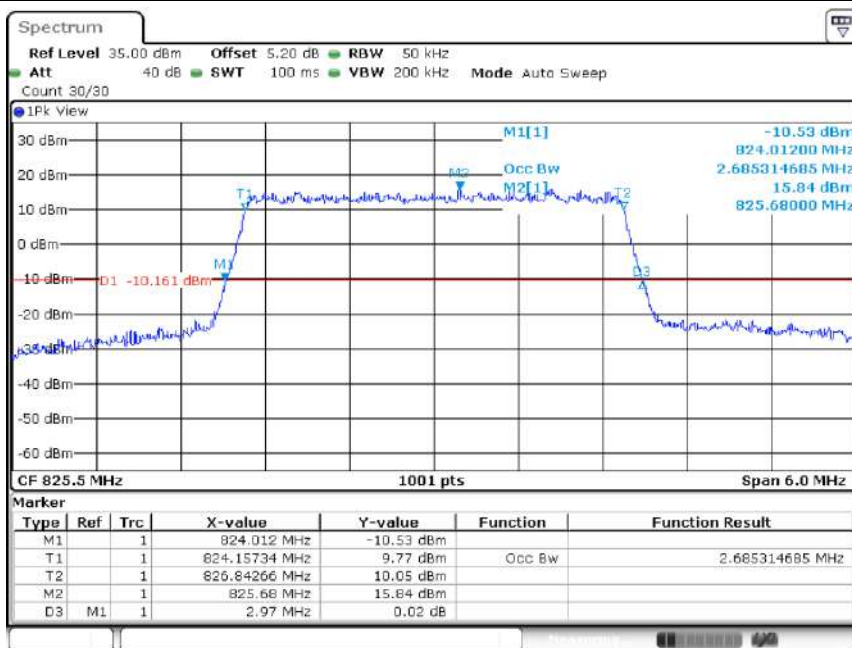
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Band5-3MHz-QPSK-20635-15RB#0-2.697



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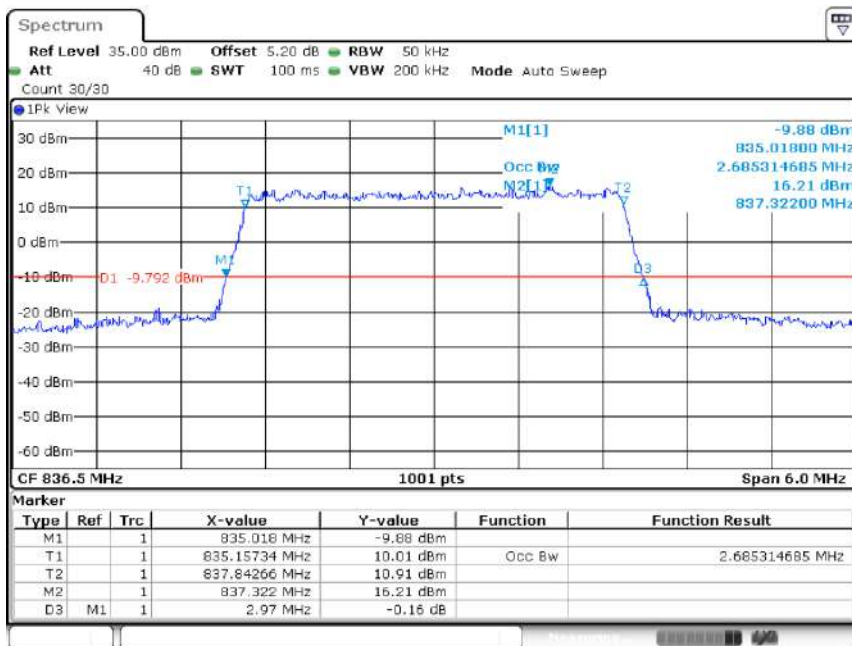
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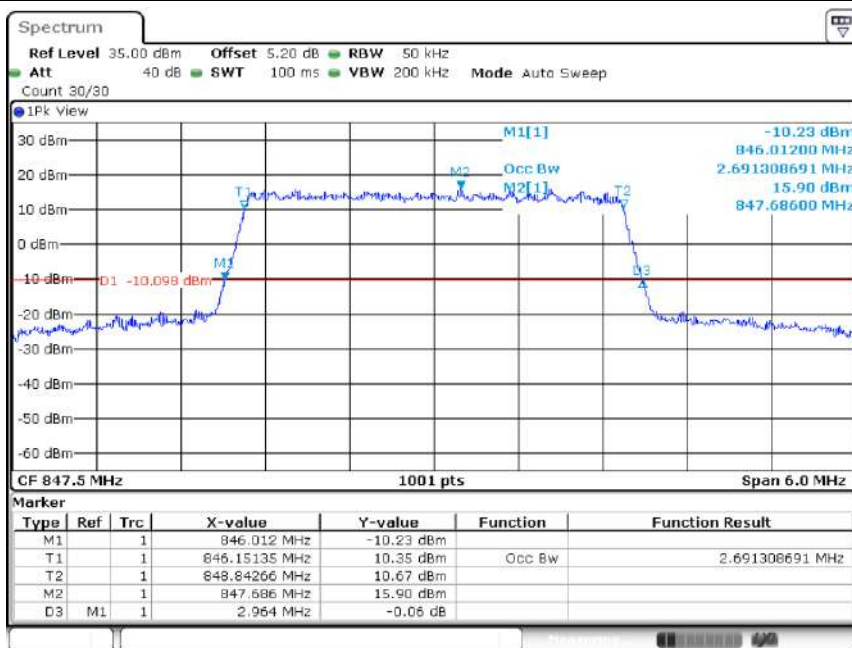


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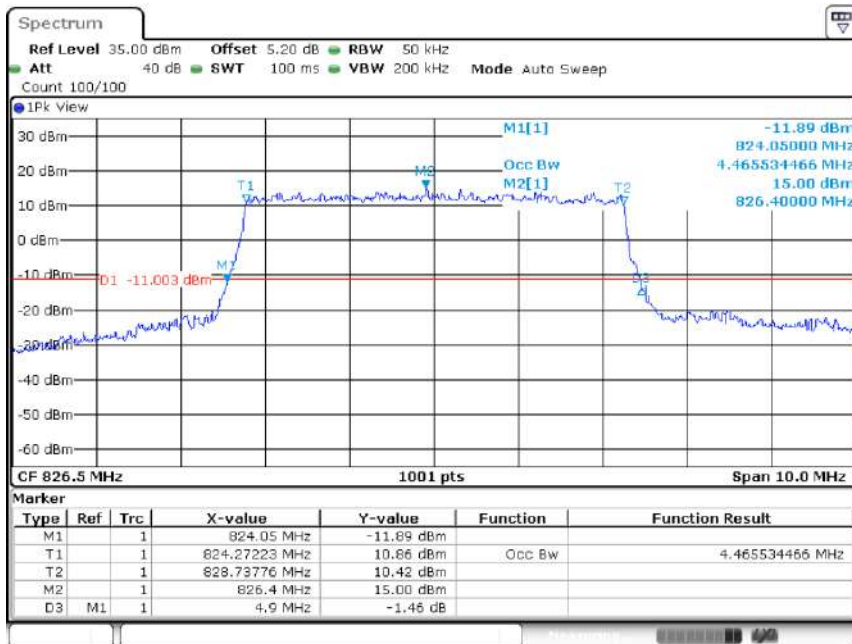
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Date: 28.SEP.2020 12:39:16

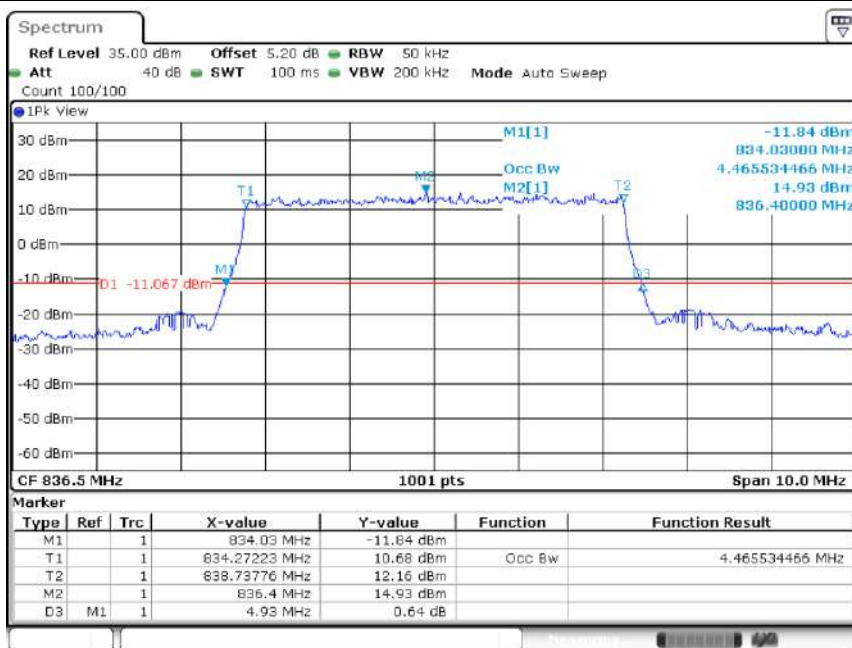


Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 28.SEP.2020 12:39:44

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



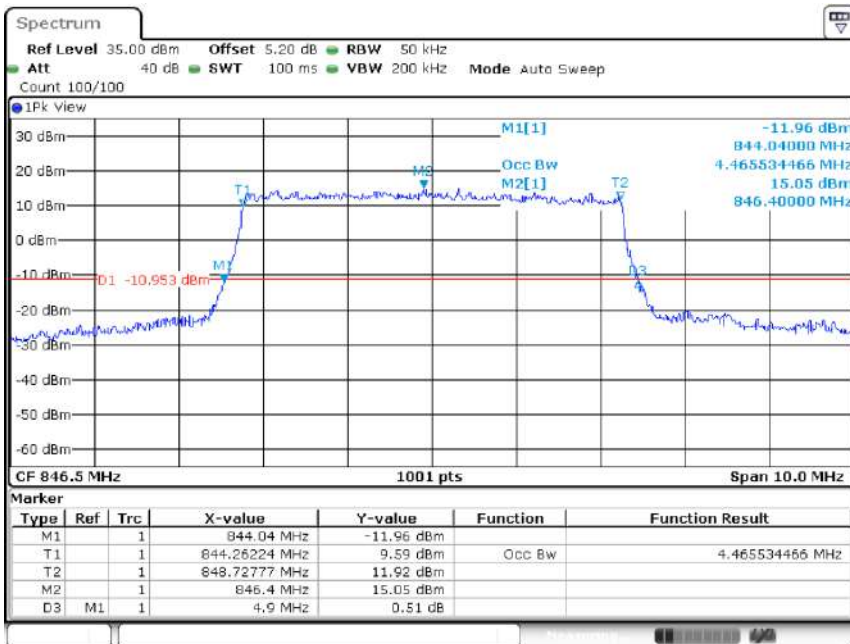
Date: 28.SEP.2020 12:40:30



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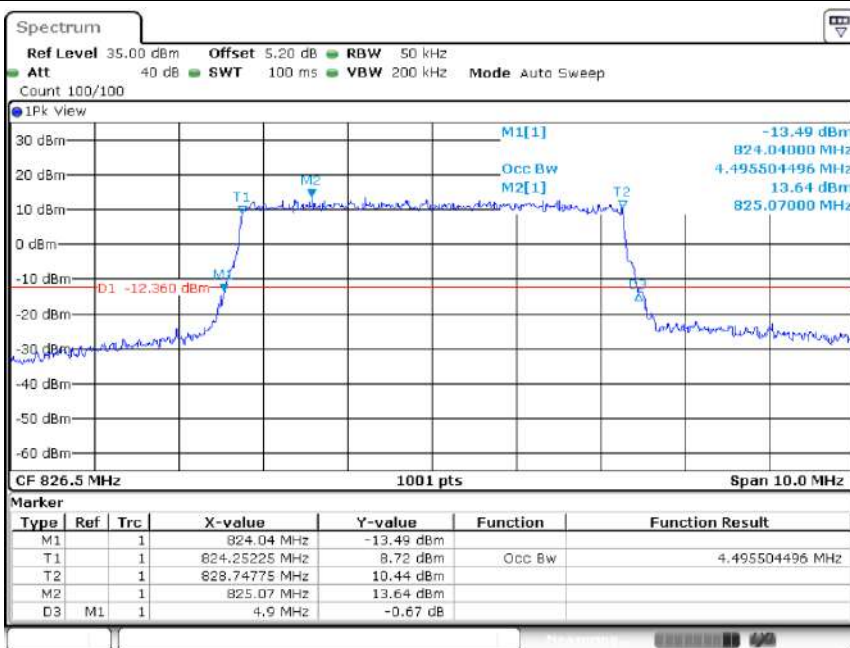
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Band5-5MHz-QPSK-20625-25RB#0-4.466



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

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



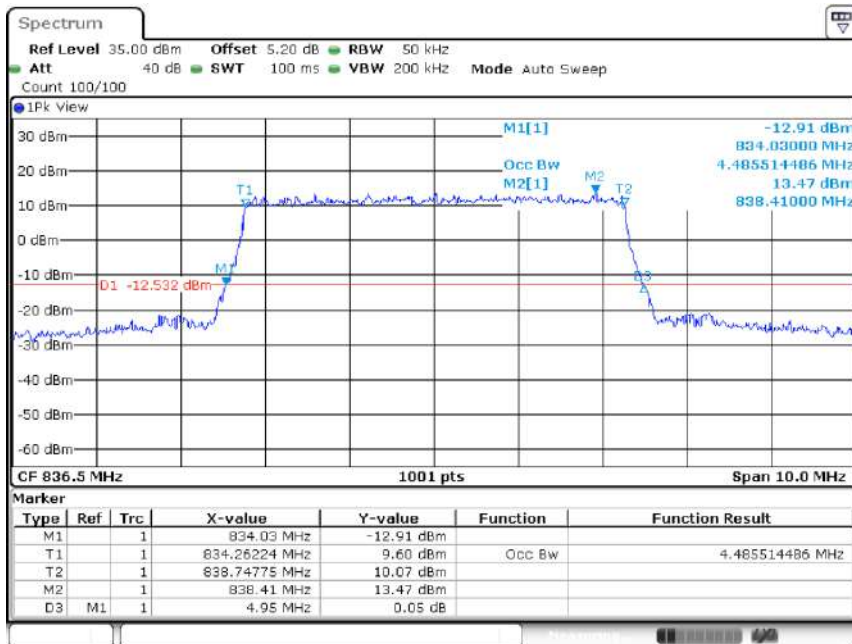
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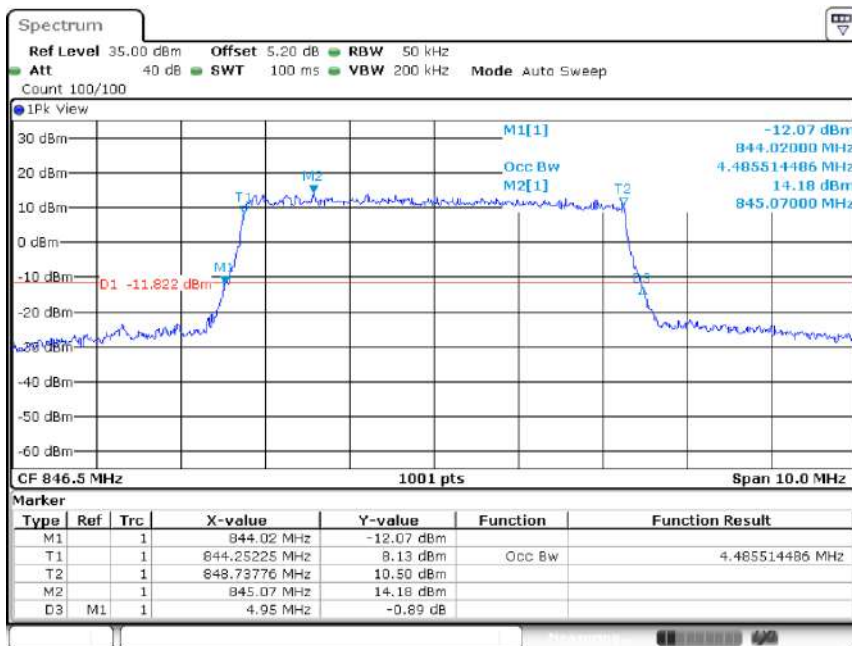
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Band5-5MHz-16QAM-20525-25RB#0-4.486



Date: 28.SEP.2020 12:40:53

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



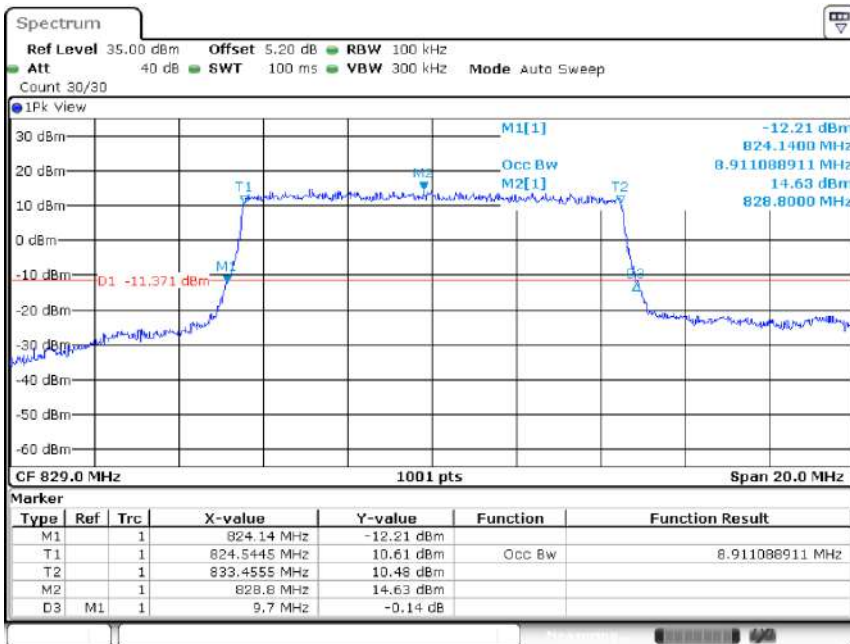
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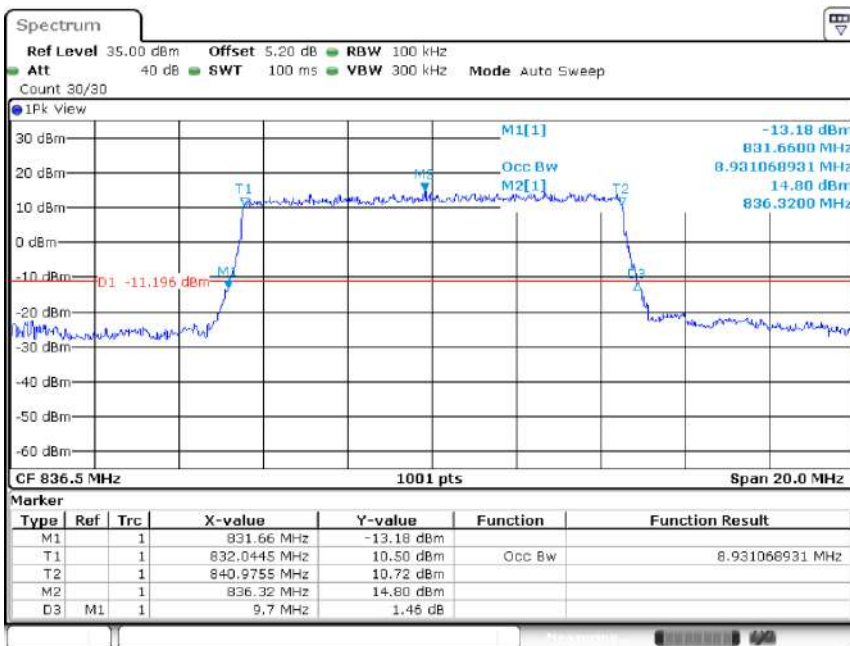
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Band5-10MHz-QPSK-20450-50RB#0-8.911



Date: 28.SEP.2020 12:42:00

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



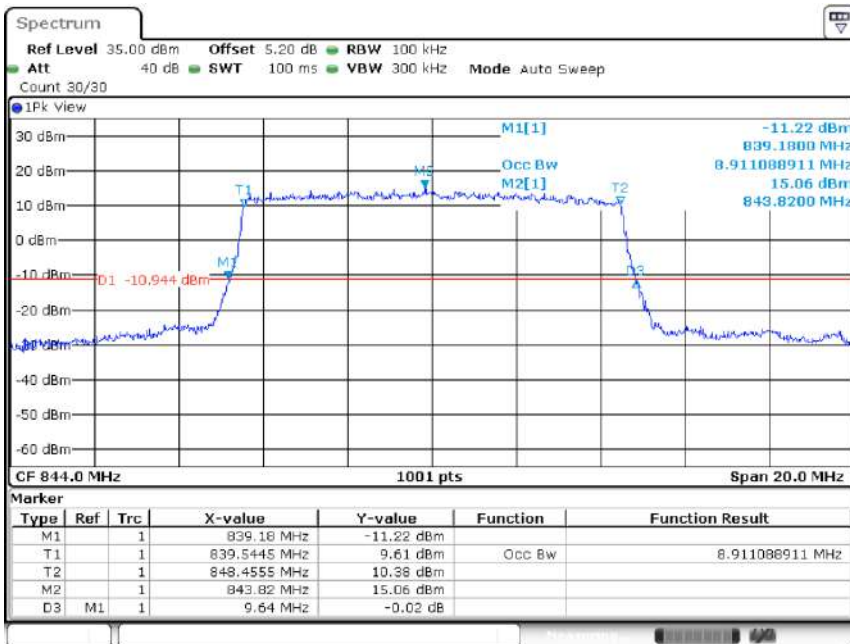
Date: 28.SEP.2020 12:42:31



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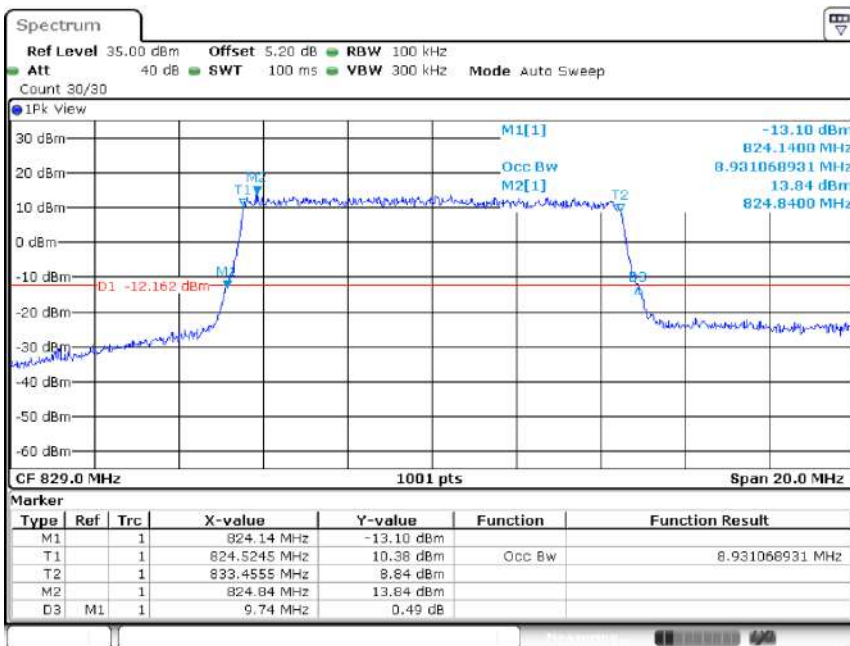
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Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 28.SEP.2020 12:43:03

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



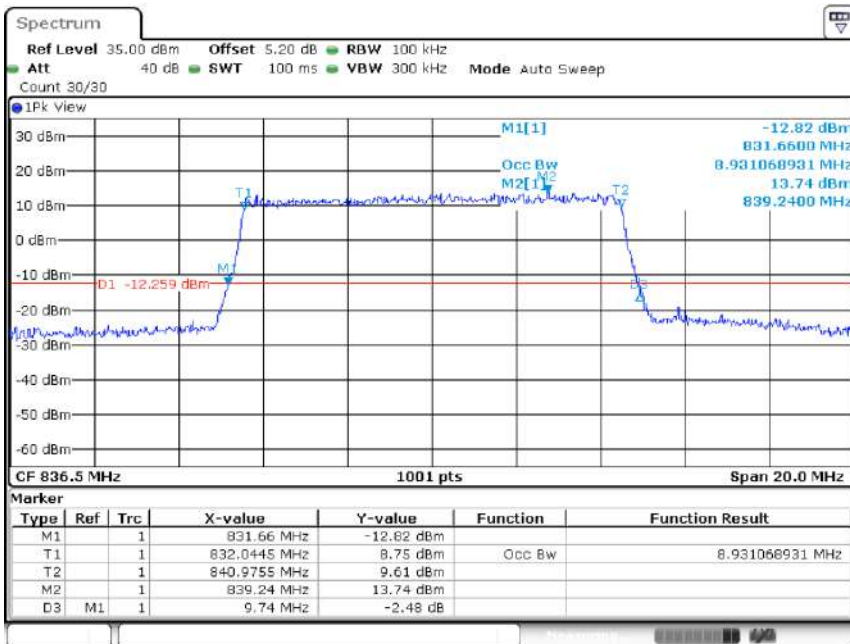
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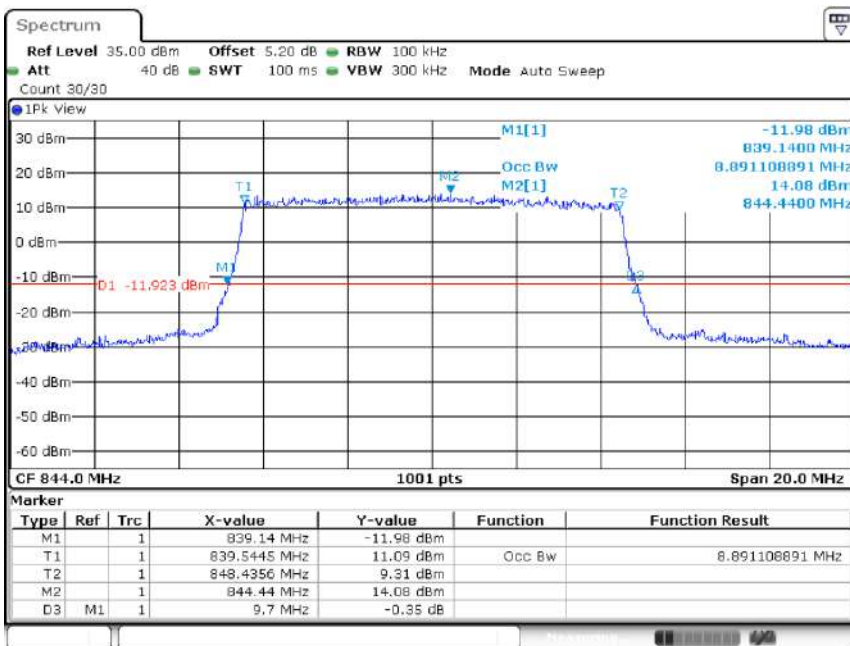
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Band5-10MHz-16QAM-20525-50RB#0-8.931



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

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



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



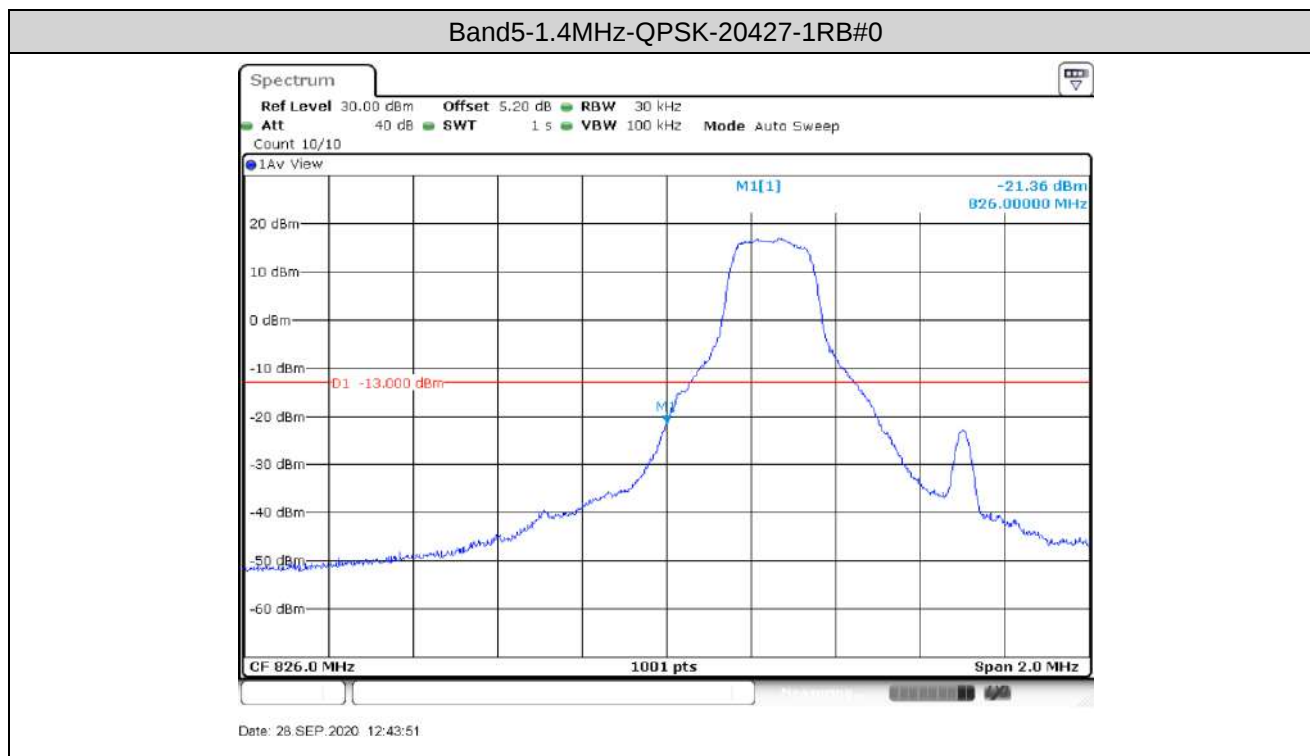
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5. Band Edge Compliance

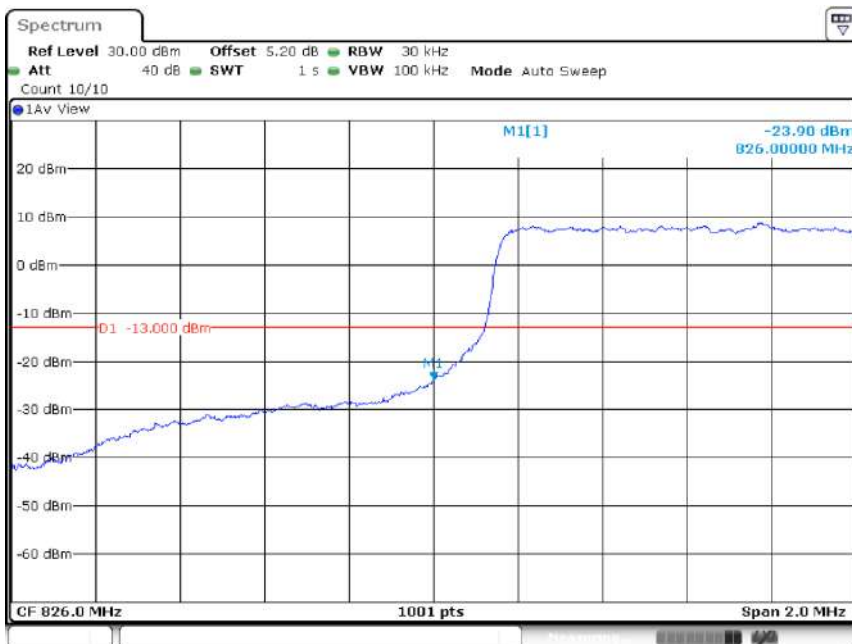
5.1. Test Plots



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



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

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



Date: 28.SEP.2020 12:45:32



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



Date: 28.SEP.2020 12:46:22

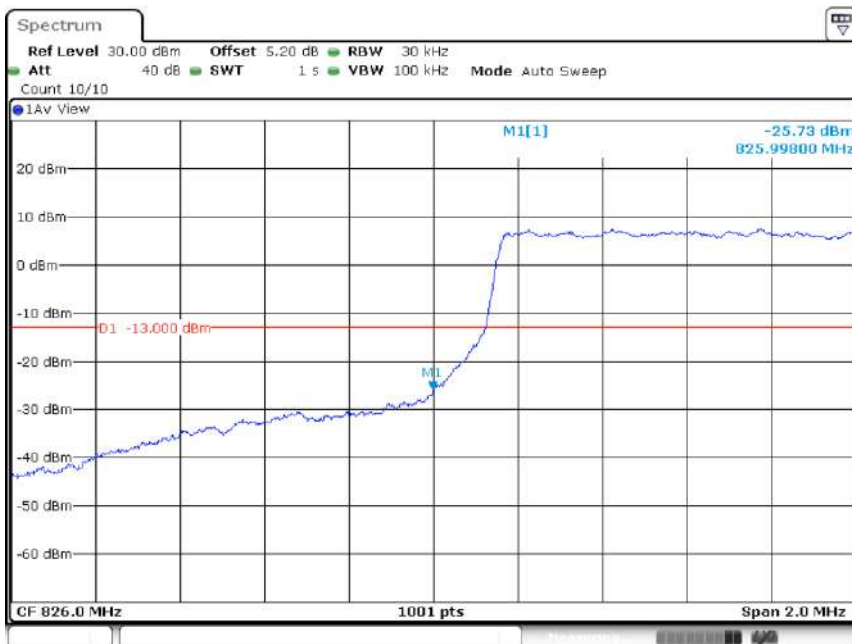
Band5-1.4MHz-16QAM-20427-1RB#0



Date: 28.SEP.2020 12:44:14



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

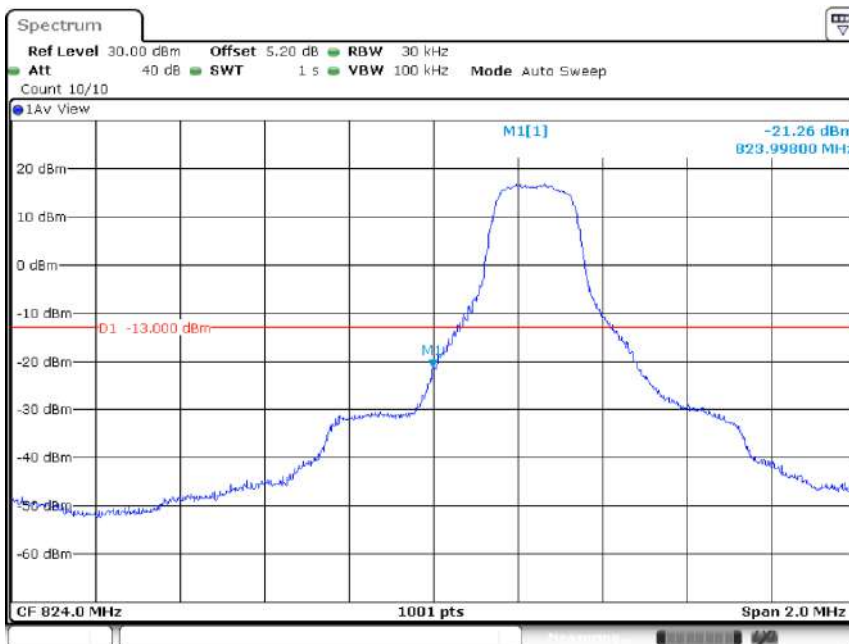


Band5-1.4MHz-16QAM-20643-6RB#0



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

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



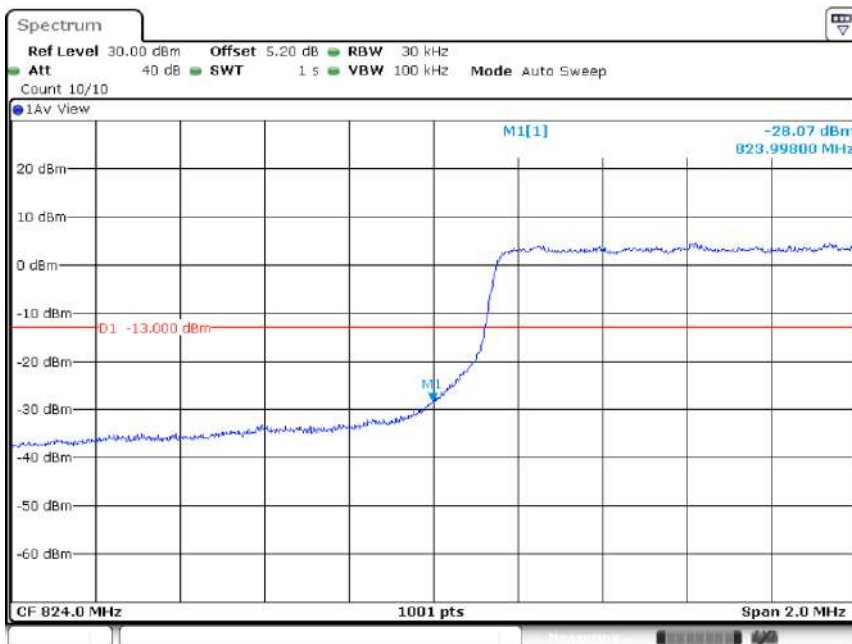
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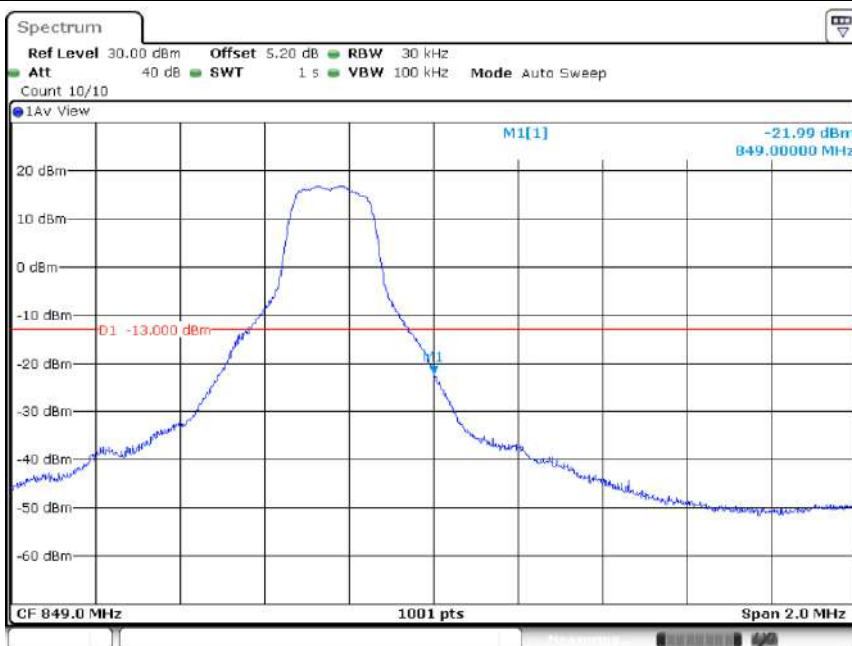
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Band5-3MHz-QPSK-20415-15RB#0



Date: 28 SEP.2020 12:48:05

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



Date: 28 SEP.2020 12:49:00



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

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



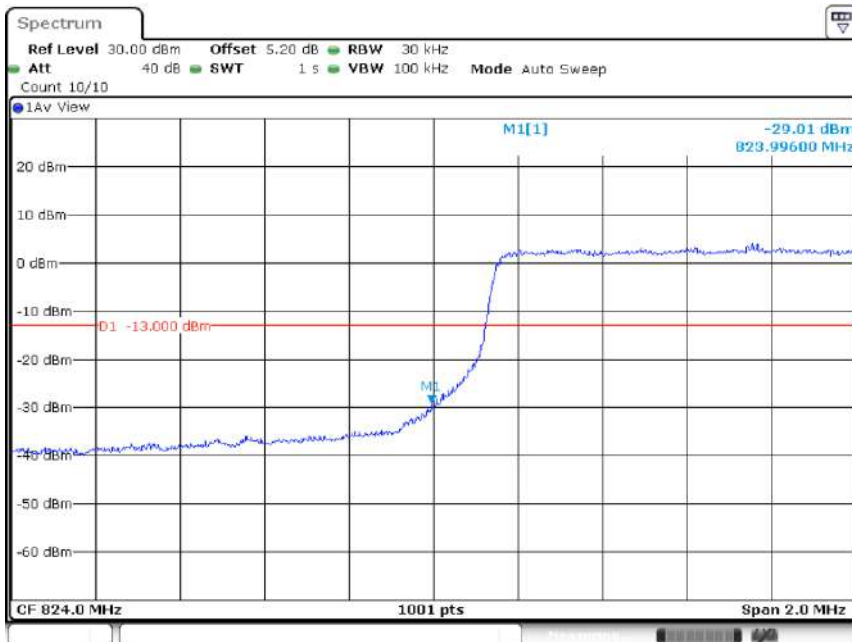
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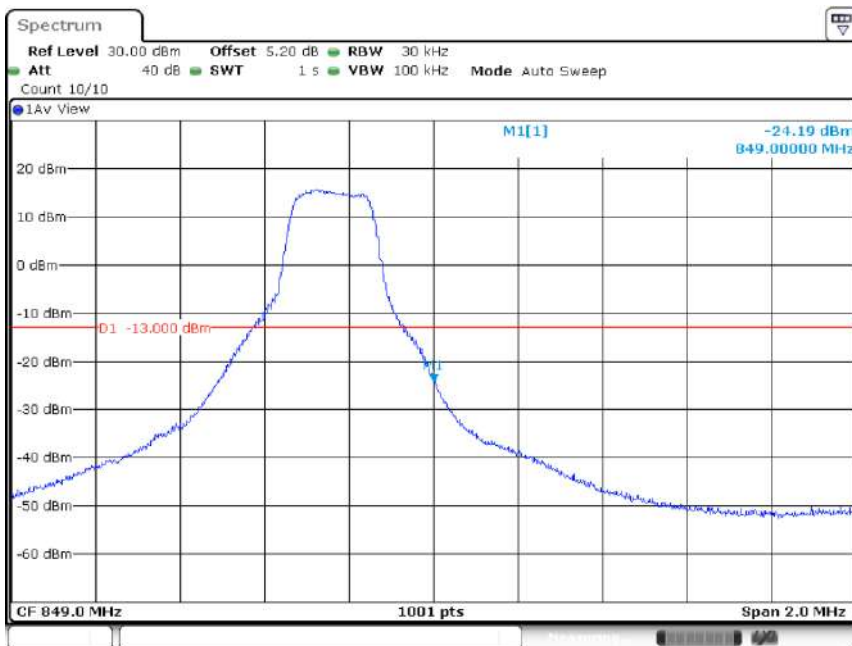
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Band5-3MHz-16QAM-20415-15RB#0



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

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



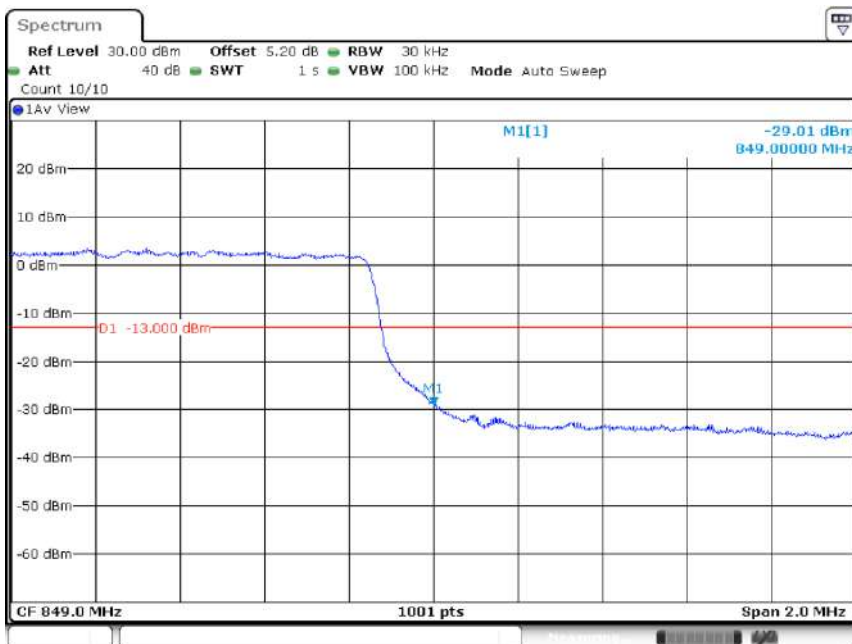
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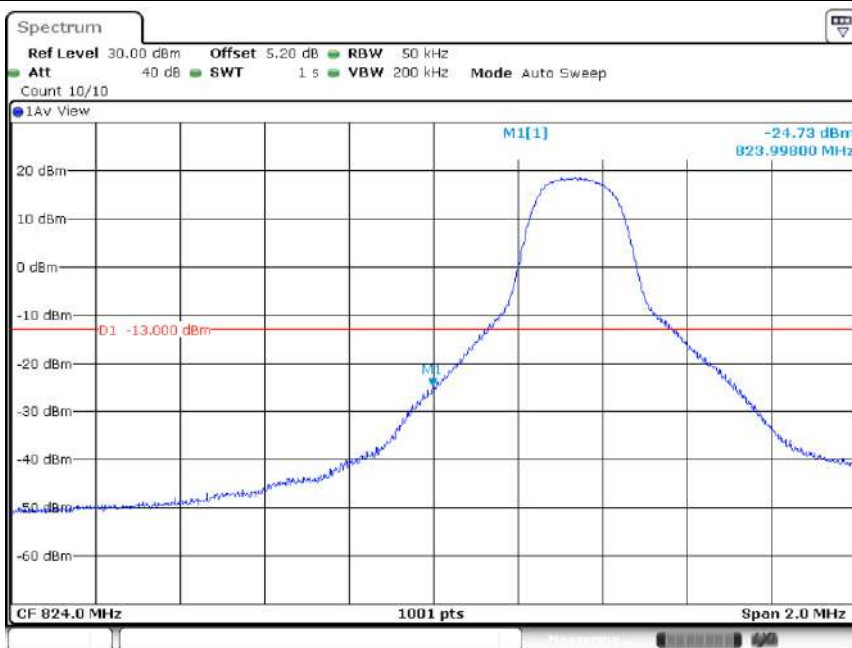
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Band5-3MHz-16QAM-20635-15RB#0



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

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



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



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



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

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



Date: 28.SEP.2020 12:52:23



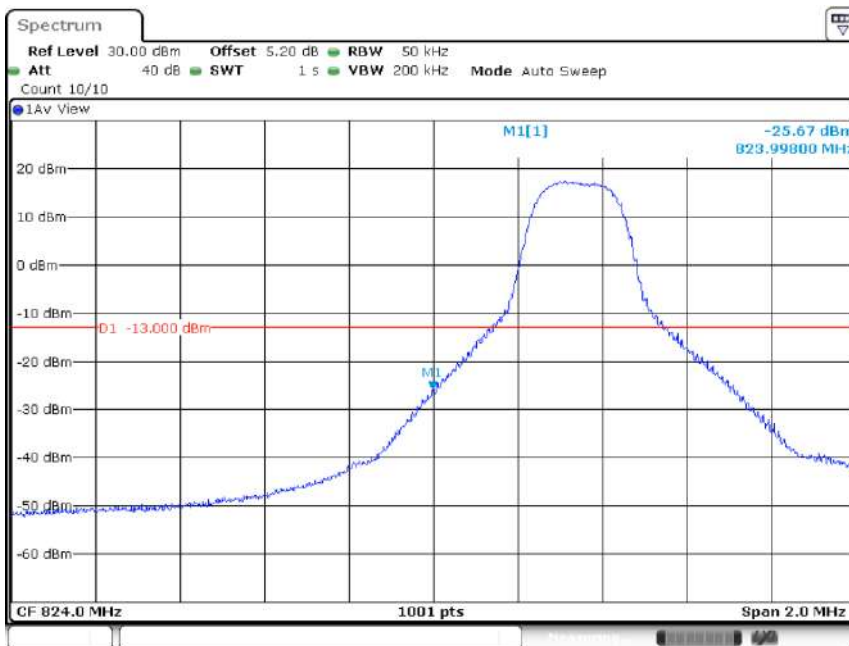
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Band5-5MHz-QPSK-20625-25RB#0



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

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



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



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



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

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



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



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



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

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



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



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



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

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



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



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



Date: 28 SEP.2020 12:56:34

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



Date: 28 SEP.2020 12:54:29



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



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

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



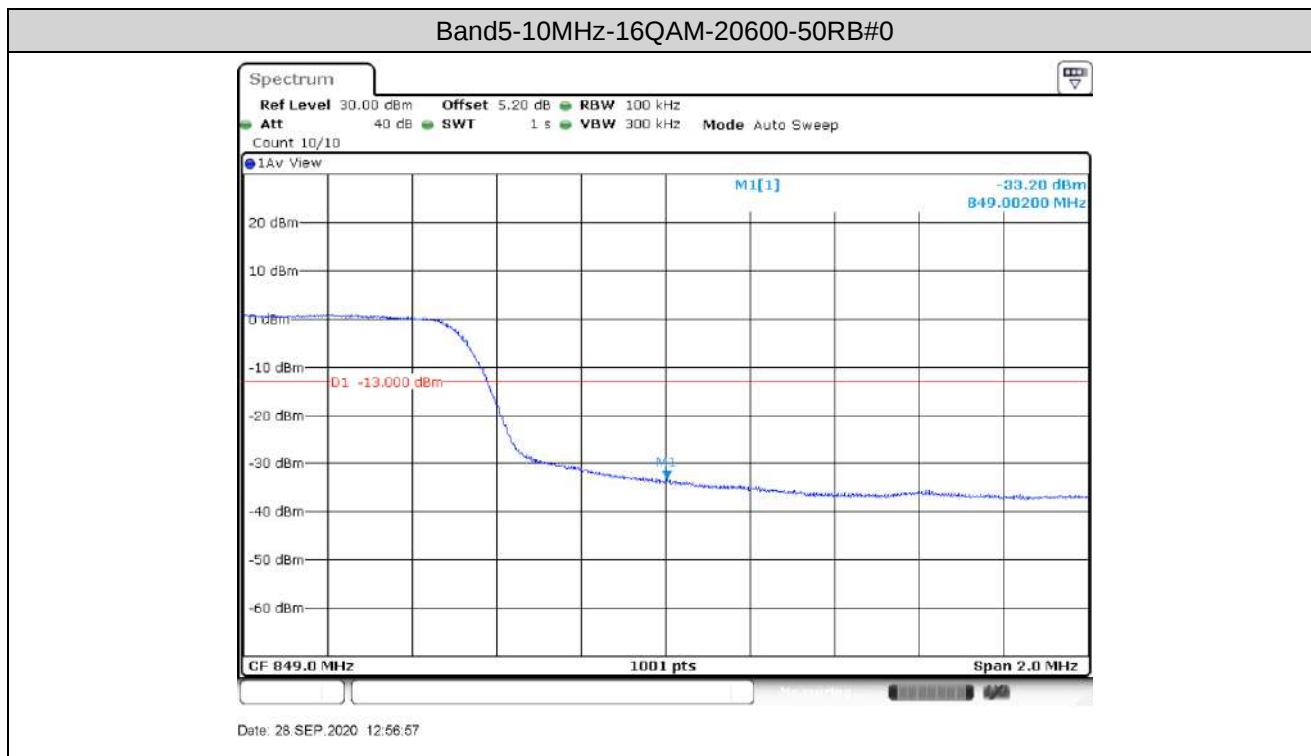
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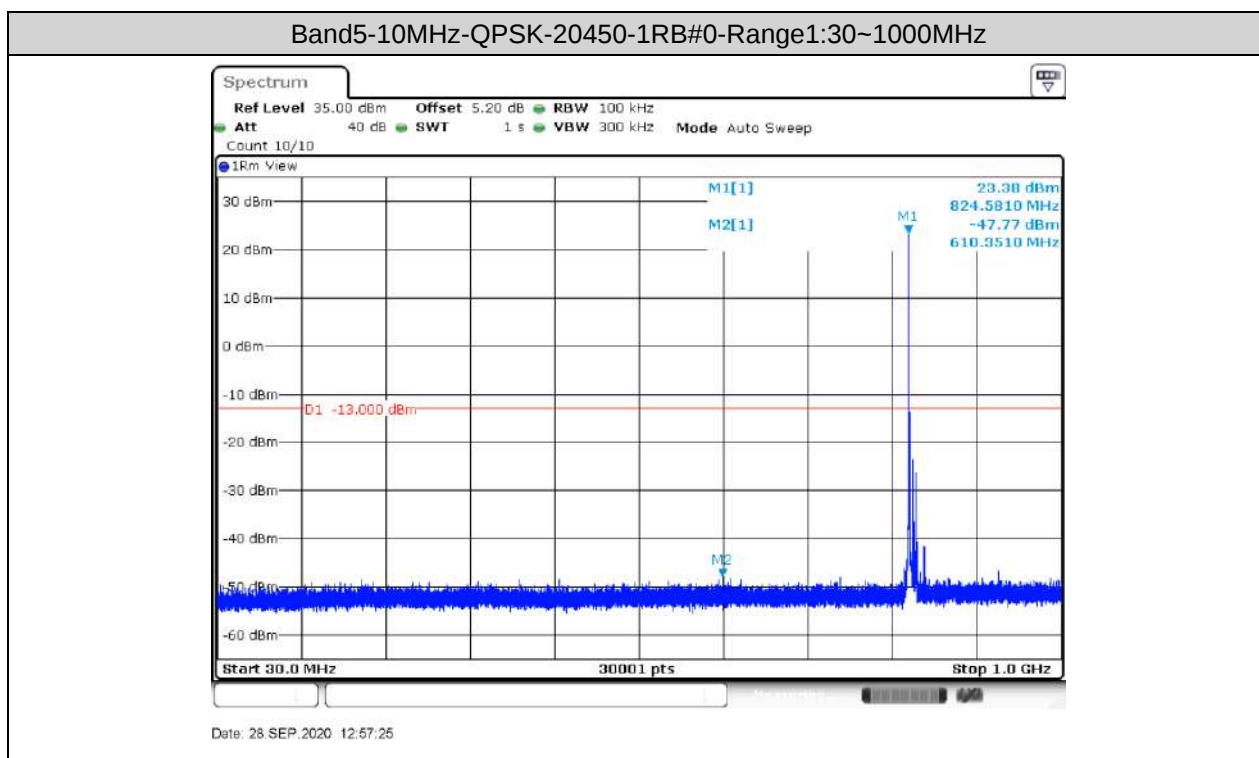
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6. Spurious Emission at Antenna Terminal

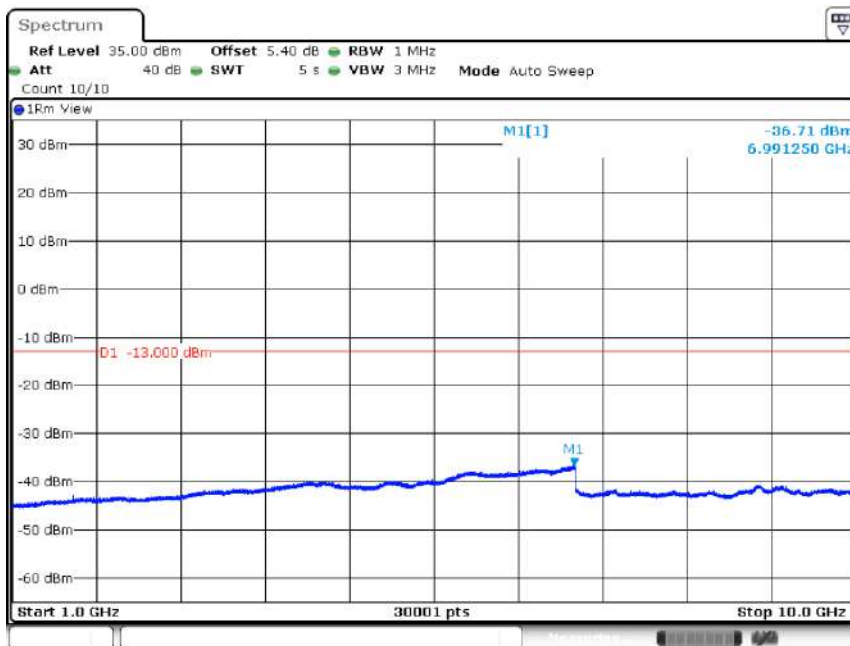
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

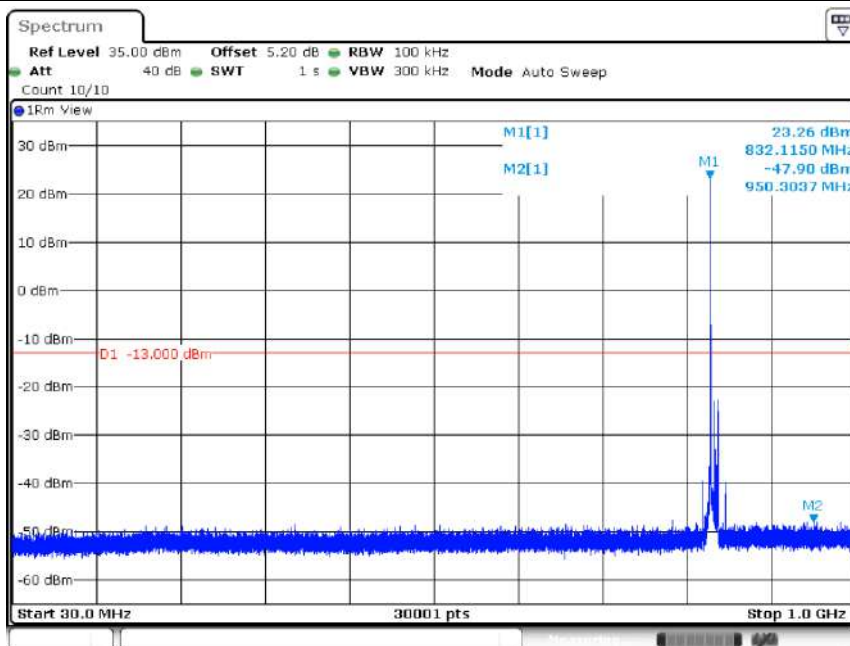


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 28 SEP.2020 12:58:33

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



Date: 28 SEP.2020 13:00:26

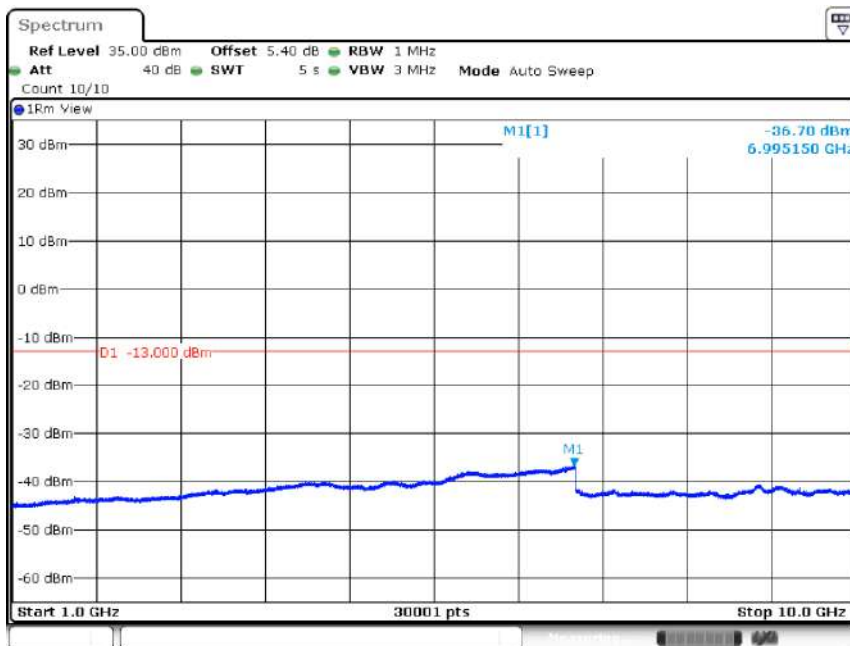


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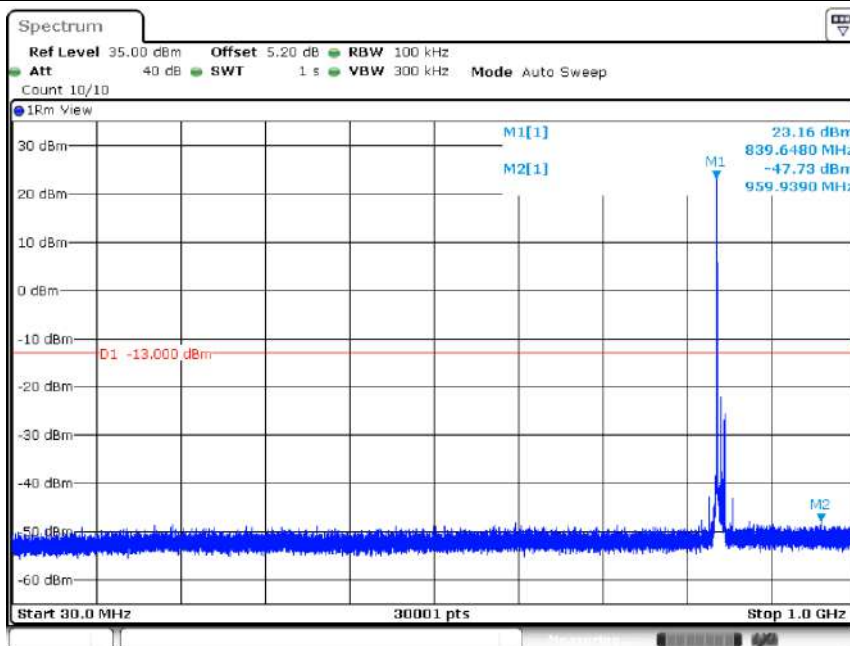
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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 28 SEP.2020 13:01:35

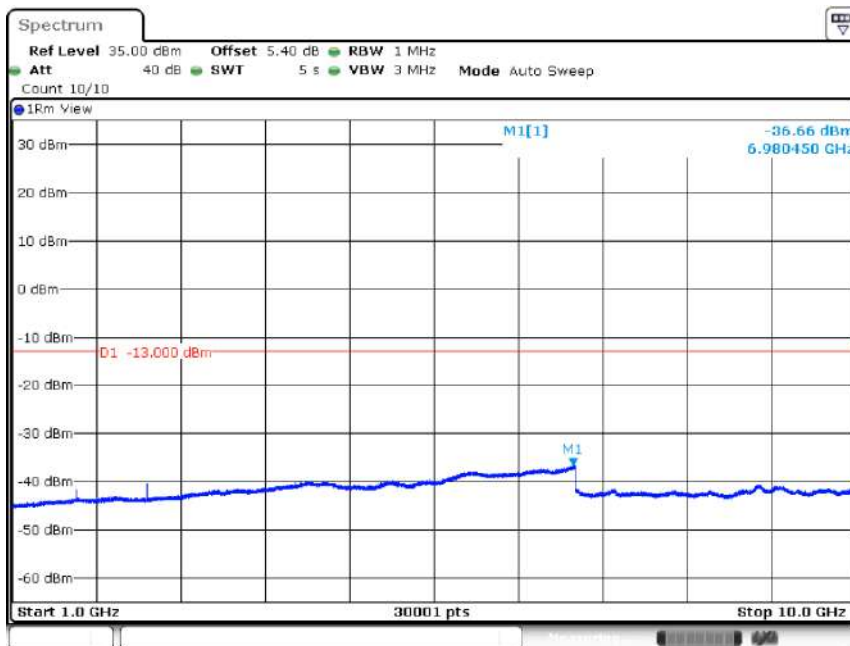
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Date: 28 SEP.2020 13:03:28

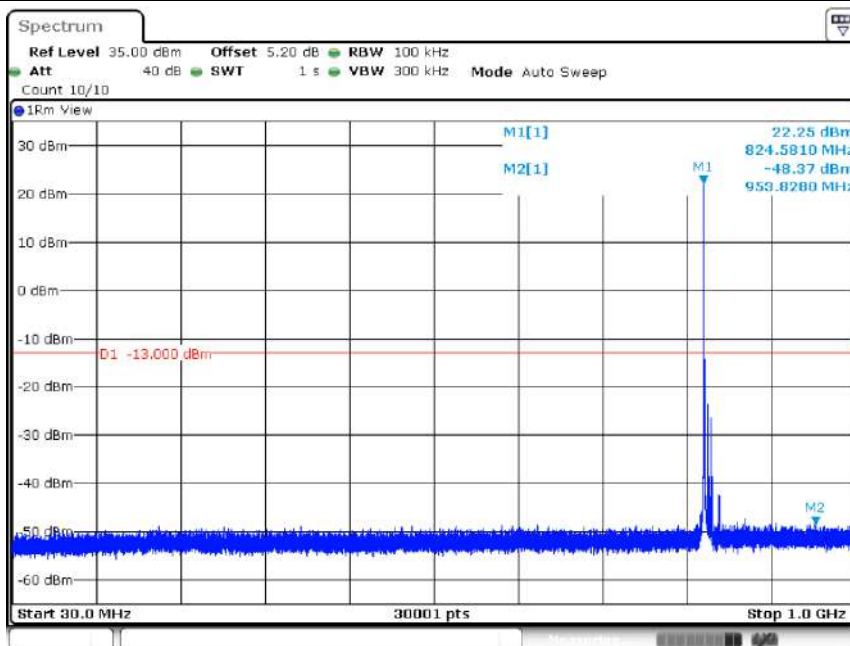


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 28 SEP.2020 13:04:37

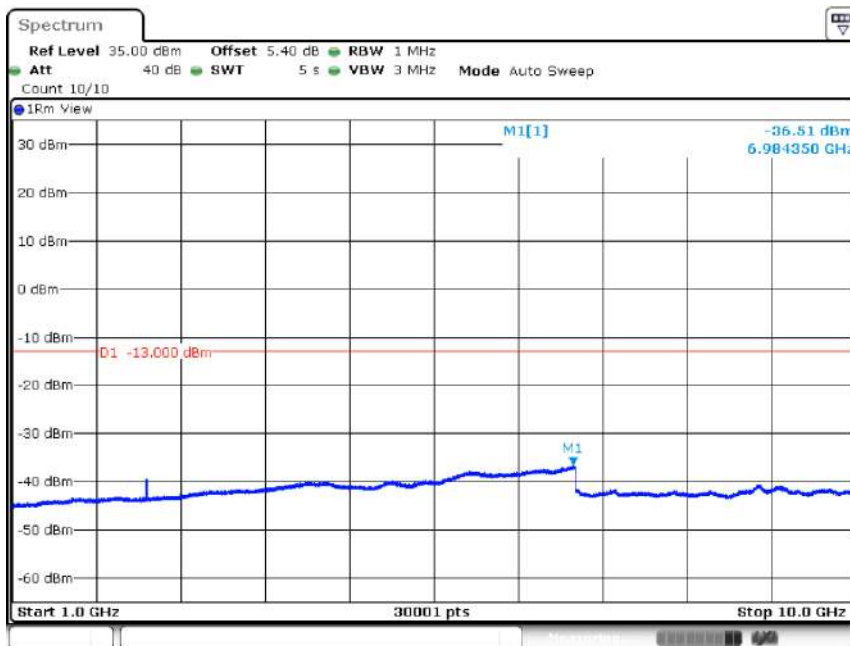
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 28 SEP.2020 12:58:55

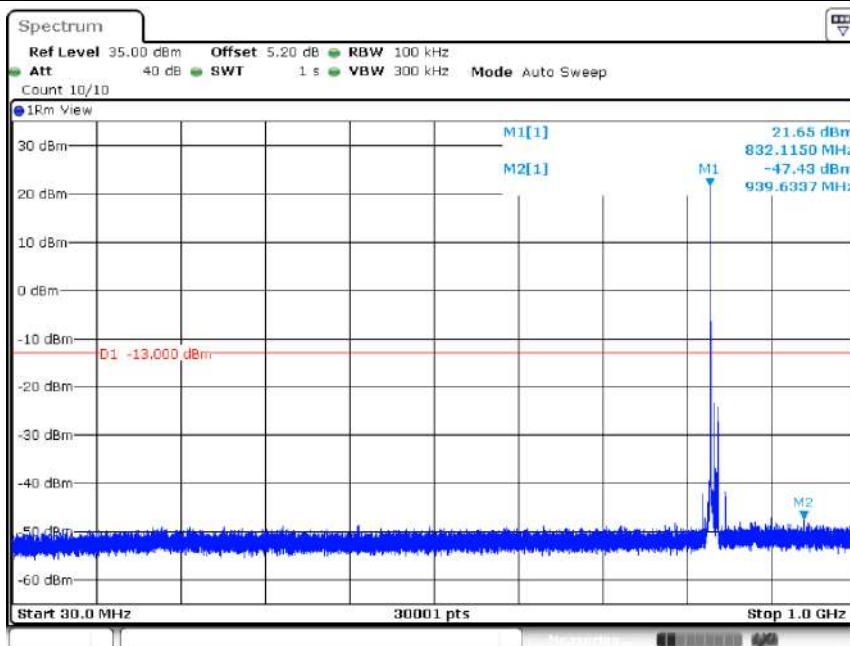


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 28 SEP.2020 13:00:04

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



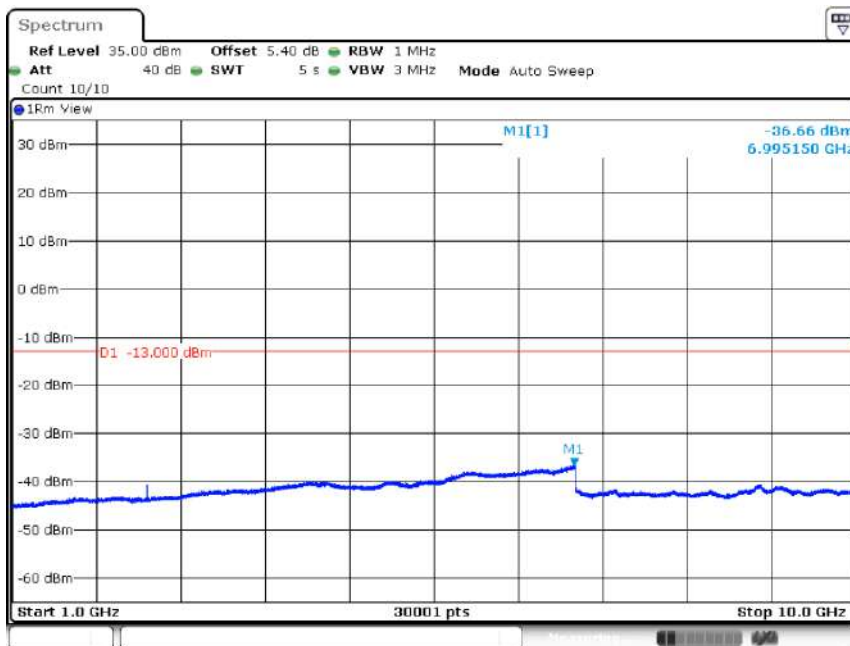
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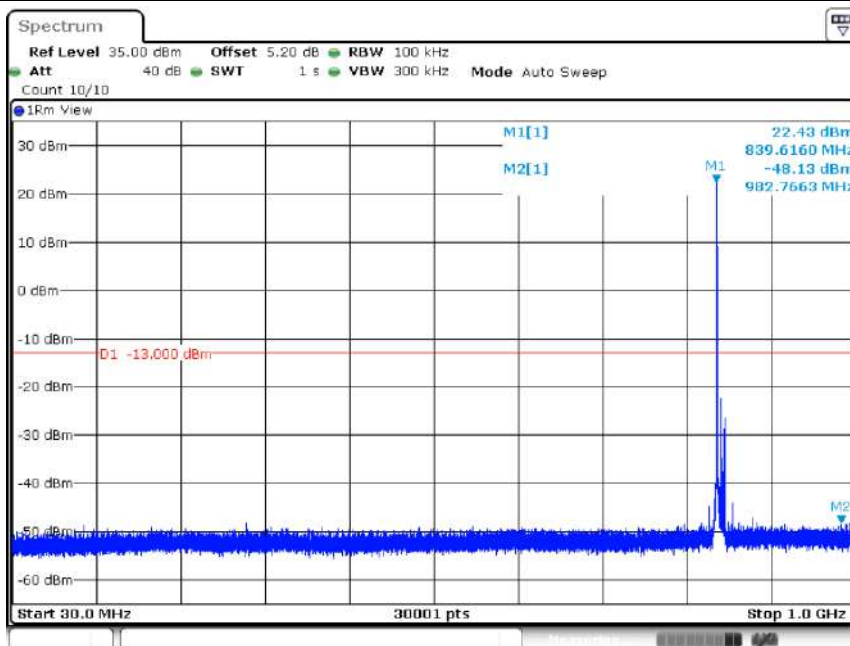
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Date: 28 SEP.2020 13:03:05

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



Date: 28 SEP.2020 13:04:59

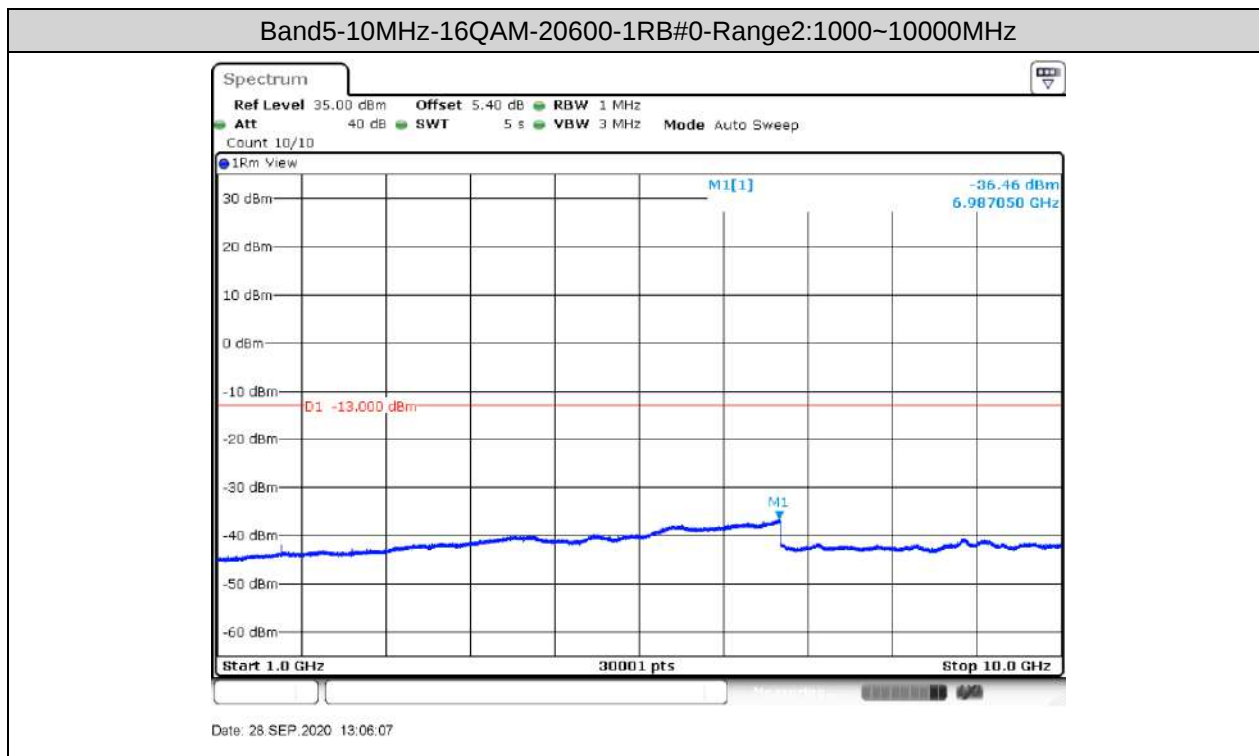


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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0000	-73.58	-13.00	60.58	224	99	Vertical
114.1517	-61.95	-13.00	48.95	154	259	Vertical
337.8449	-66.44	-13.00	53.44	196	323	Vertical
1648.9298	-64.12	-13.00	51.12	254	158	Vertical
2697.9396	-57.53	-13.00	44.53	288	109	Vertical
9317.0106	-52.04	-13.00	39.04	153	227	Vertical
44.4052	-62.70	-13.00	49.70	263	291	Horizontal
106.9248	-73.62	-13.00	60.62	277	323	Horizontal
241.6646	-65.61	-13.00	52.61	241	323	Horizontal
1648.9298	-61.47	-13.00	48.47	292	175	Horizontal
2699.1398	-56.31	-13.00	43.31	268	48	Horizontal
7470.8157	-56.35	-13.00	43.35	218	291	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.3096	-73.06	-13.00	60.06	155	163	Vertical
112.0176	-63.12	-13.00	50.12	127	131	Vertical
384.8437	-65.42	-13.00	52.42	153	131	Vertical
1664.1328	-59.21	-13.00	46.21	196	172	Vertical
2693.5387	-57.55	-13.00	44.55	253	169	Vertical
9796.0599	-51.84	-13.00	38.84	284	99	Vertical
43.6777	-62.05	-13.00	49.05	245	260	Horizontal
104.0147	-73.12	-13.00	60.12	111	36	Horizontal
240.8400	-65.69	-13.00	52.69	187	36	Horizontal
1664.1328	-53.24	-13.00	40.24	162	182	Horizontal
2699.5399	-56.28	-13.00	43.28	187	144	Horizontal
9310.0103	-52.95	-13.00	39.95	245	355	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.0485	-71.42	-13.00	58.42	252	67	Vertical
107.4584	-62.08	-13.00	49.08	188	227	Vertical
335.0803	-66.54	-13.00	53.54	163	99	Vertical
1678.9358	-63.78	-13.00	50.78	122	172	Vertical
2446.2893	-56.58	-13.00	43.58	141	205	Vertical
9859.0620	-51.77	-13.00	38.77	203	99	Vertical
39.3125	-62.08	-13.00	49.08	252	163	Horizontal
102.9962	-73.19	-13.00	60.19	233	323	Horizontal
232.3036	-64.92	-13.00	51.92	274	132	Horizontal
1679.3359	-60.46	-13.00	47.46	288	188	Horizontal
2701.5403	-56.34	-13.00	43.34	155	240	Horizontal
9314.4438	-52.70	-13.00	39.70	196	323	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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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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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

