



Appendix B

E-UTRA Band 71



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	24.33	23.93	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#24	24.14	23.74	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#12	24.23	23.83	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#13	23.26	22.86	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#0	23.13	22.73	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#6	23.25	22.85	36.98	PASS
Band71	5MHz	QPSK	133147	25RB#0	23.36	22.96	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.94	23.54	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.20	23.8	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.93	23.53	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#13	23.23	22.83	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.98	22.58	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#6	23.11	22.71	36.98	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.89	22.49	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#12	24.25	23.85	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#24	24.20	23.8	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#0	24.10	23.7	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#6	22.89	22.49	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#13	23.15	22.75	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#0	23.34	22.94	36.98	PASS
Band71	5MHz	QPSK	133447	25RB#0	23.35	22.95	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.34	22.94	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#24	23.35	22.95	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.13	22.73	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#0	22.27	21.87	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#6	22.53	22.13	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#13	22.07	21.67	36.98	PASS



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Band71	5MHz	16QAM	133147	25RB#0	22.24	21.84	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#0	23.38	22.98	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#12	23.31	22.91	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#24	23.40	23	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#6	22.53	22.13	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	22.02	21.62	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#13	22.34	21.94	36.98	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.08	21.68	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#0	23.23	22.83	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.02	22.62	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#24	23.27	22.87	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#0	22.72	22.32	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#6	22.09	21.69	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#13	22.25	21.85	36.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	22.44	22.04	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#0	24.32	23.92	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.10	23.7	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.92	23.52	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.92	22.52	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#12	23.38	22.98	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#25	23.22	22.82	36.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.89	22.49	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#0	24.20	23.8	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.93	23.53	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.18	23.78	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#25	23.07	22.67	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#0	23.35	22.95	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.94	22.54	36.98	PASS
Band71	10MHz	QPSK	133297	50RB#0	23.24	22.84	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.35	23.95	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.02	23.62	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#24	24.39	23.99	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#25	23.29	22.89	36.98	PASS



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Band71	10MHz	QPSK	133422	25RB#0	23.30	22.9	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#12	23.35	22.95	36.98	PASS
Band71	10MHz	QPSK	133422	50RB#0	23.36	22.96	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#24	23.40	23	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.14	22.74	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.13	22.73	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#0	22.62	22.22	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#12	22.32	21.92	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#25	22.58	22.18	36.98	PASS
Band71	10MHz	16QAM	133172	50RB#0	22.51	22.11	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.96	22.56	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.90	22.5	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.10	22.7	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.99	21.59	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#12	22.70	22.3	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#0	22.40	22	36.98	PASS
Band71	10MHz	16QAM	133297	50RB#0	22.68	22.28	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#49	23.20	22.8	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.38	22.98	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.20	22.8	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#0	22.16	21.76	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#25	22.49	22.09	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#12	22.47	22.07	36.98	PASS
Band71	10MHz	16QAM	133422	50RB#0	22.08	21.68	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#0	24.32	23.92	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.95	23.55	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#74	24.01	23.61	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#0	23.25	22.85	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#39	23.15	22.75	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#18	22.95	22.55	36.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.98	22.58	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#74	24.02	23.62	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.23	23.83	36.98	PASS



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Band71	15MHz	QPSK	133297	1RB#0	24.09	23.69	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#0	23.17	22.77	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#39	22.89	22.49	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#18	23.29	22.89	36.98	PASS
Band71	15MHz	QPSK	133297	75RB#0	23.23	22.83	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#38	24.16	23.76	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#74	24.36	23.96	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.27	23.87	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#0	23.26	22.86	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#18	23.21	22.81	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#39	22.96	22.56	36.98	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.98	22.58	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#0	23.18	22.78	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.28	22.88	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#74	23.24	22.84	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#0	22.70	22.3	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#18	22.21	21.81	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#39	22.44	22.04	36.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	22.43	22.03	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.08	22.68	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#0	23.24	22.84	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.92	22.52	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#39	22.04	21.64	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#0	22.27	21.87	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#18	22.74	22.34	36.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	22.22	21.82	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.92	22.52	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#74	23.32	22.92	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.10	22.7	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#39	22.00	21.6	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#18	22.44	22.04	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#0	22.46	22.06	36.98	PASS
Band71	15MHz	16QAM	133397	75RB#0	22.52	22.12	36.98	PASS



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Band71	20MHz	QPSK	133222	1RB#0	24.30	23.9	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.89	23.49	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.94	23.54	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#50	23.38	22.98	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.95	22.55	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.90	22.5	36.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	23.06	22.66	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#99	24.04	23.64	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#0	24.12	23.72	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.10	23.7	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.92	22.52	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#50	23.28	22.88	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#0	23.40	23	36.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.93	22.53	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#99	24.01	23.61	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#49	24.36	23.96	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.99	23.59	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.99	22.59	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.93	22.53	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.99	22.59	36.98	PASS
Band71	20MHz	QPSK	133372	100RB#0	23.13	22.73	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#99	23.10	22.7	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#0	23.25	22.85	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.26	22.86	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	22.64	22.24	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#25	22.42	22.02	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#50	22.20	21.8	36.98	PASS
Band71	20MHz	16QAM	133222	100RB#0	22.23	21.83	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.92	22.52	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.98	22.58	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.36	22.96	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#25	22.46	22.06	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#0	22.60	22.2	36.98	PASS



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Band71	20MHz	16QAM	133322	50RB#50	22.80	22.4	36.98	PASS
Band71	20MHz	16QAM	133322	100RB#0	22.01	21.61	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.96	22.56	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.93	22.53	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#99	23.08	22.68	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#0	22.75	22.35	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#25	22.19	21.79	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#50	22.18	21.78	36.98	PASS
Band71	20MHz	16QAM	133372	100RB#0	22.01	21.61	36.98	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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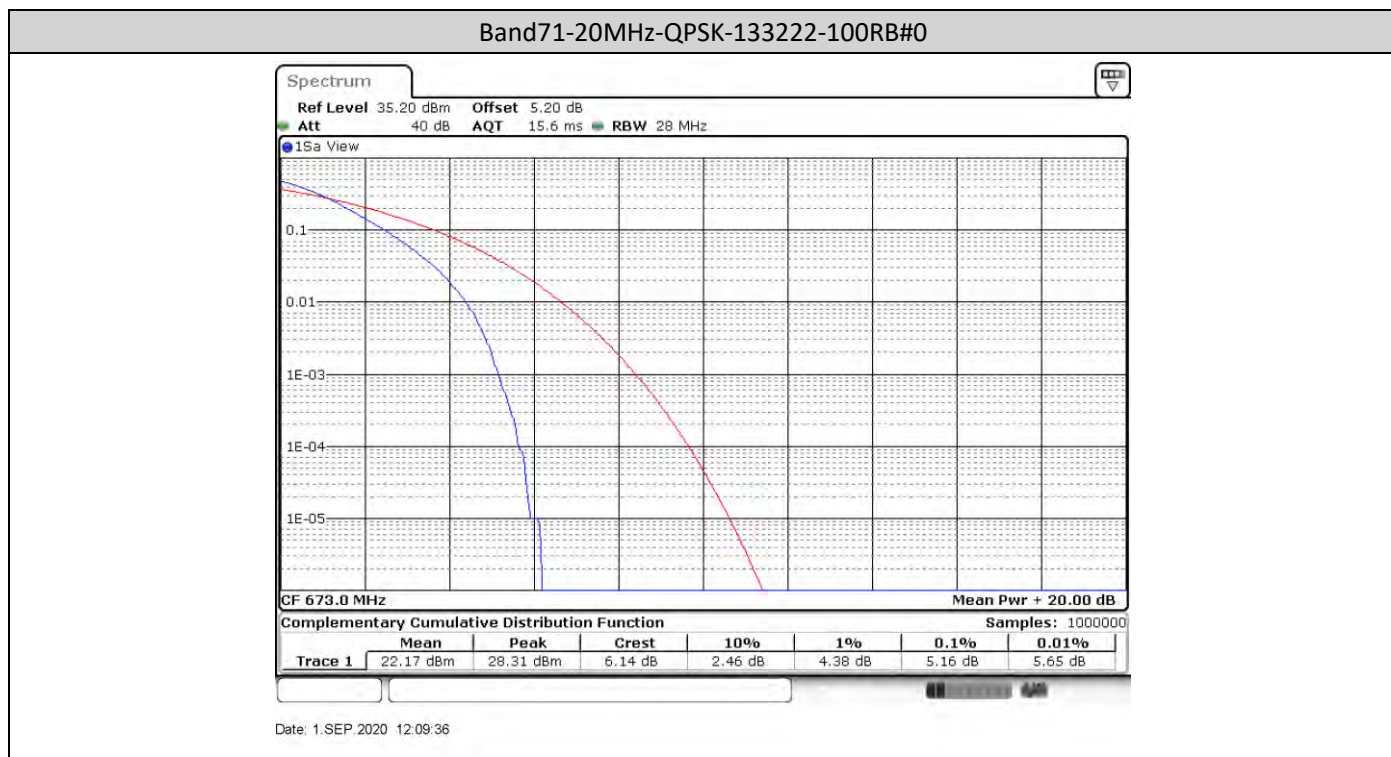


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

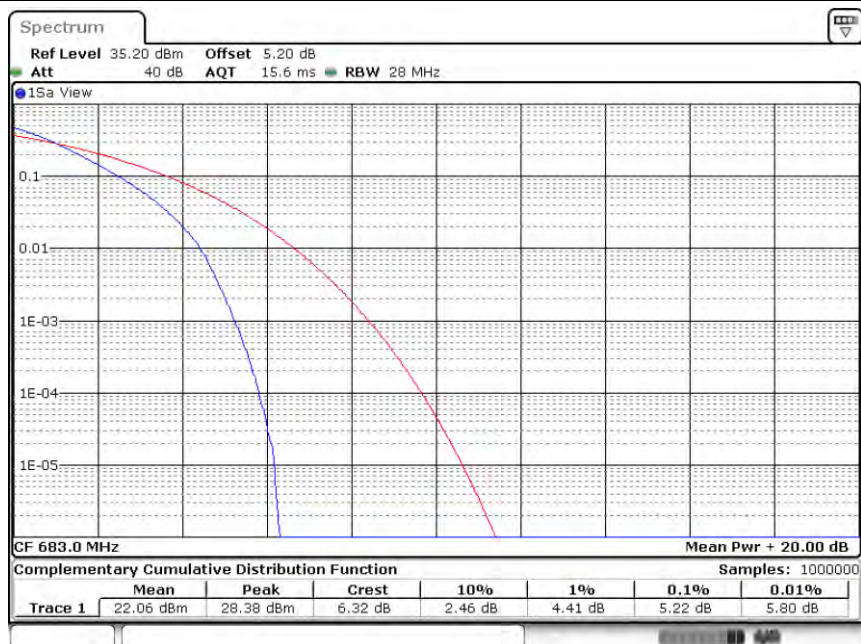
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.16	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.22	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.16	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.14	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.14	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.12	13	PASS

2.2. Test Plots



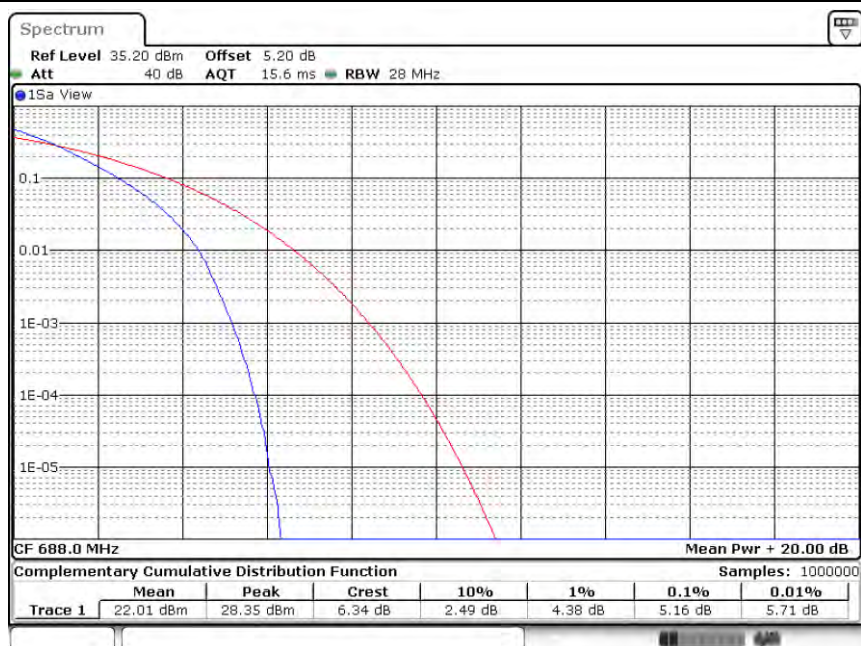


Band71-20MHz-QPSK-133322-100RB#0



Date: 1.SEP 2020 12:09:58

Band71-20MHz-QPSK-133372-100RB#0



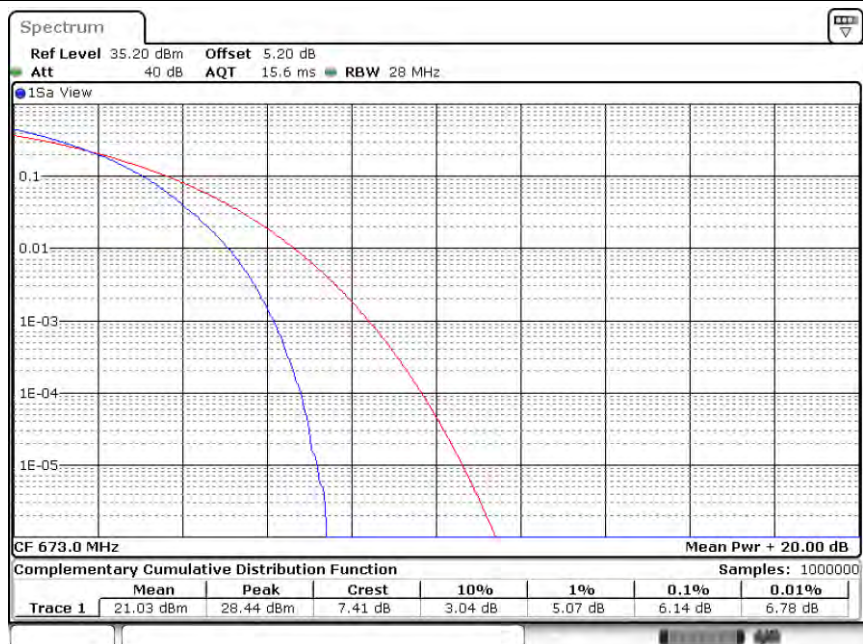
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Band71-20MHz-16QAM-133222-100RB#0



Date: 1.SEP 2020 12:09:47

Band71-20MHz-16QAM-133322-100RB#0



Date: 1.SEP 2020 12:10:09

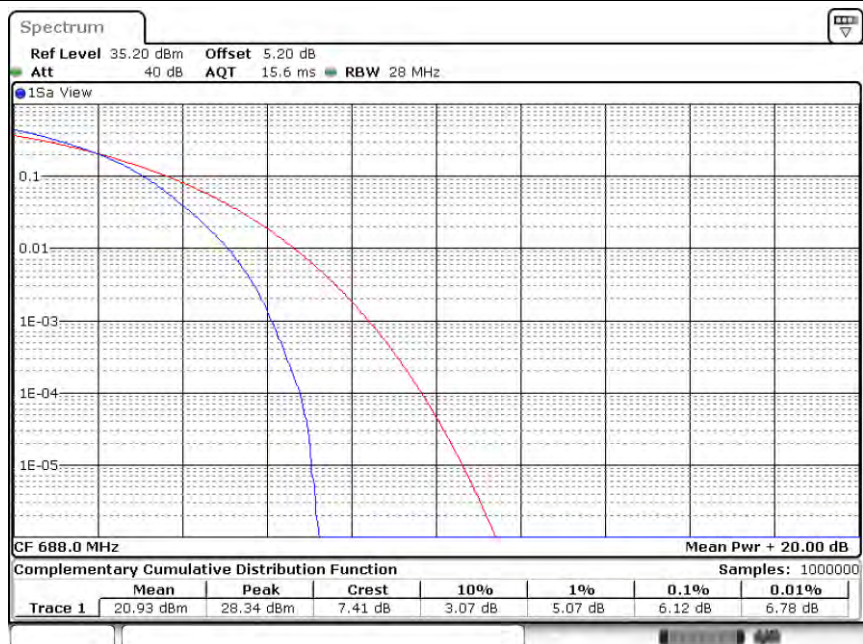


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Band71-20MHz-16QAM-133372-100RB#0



Date: 1.SEP.2020 12:10:32

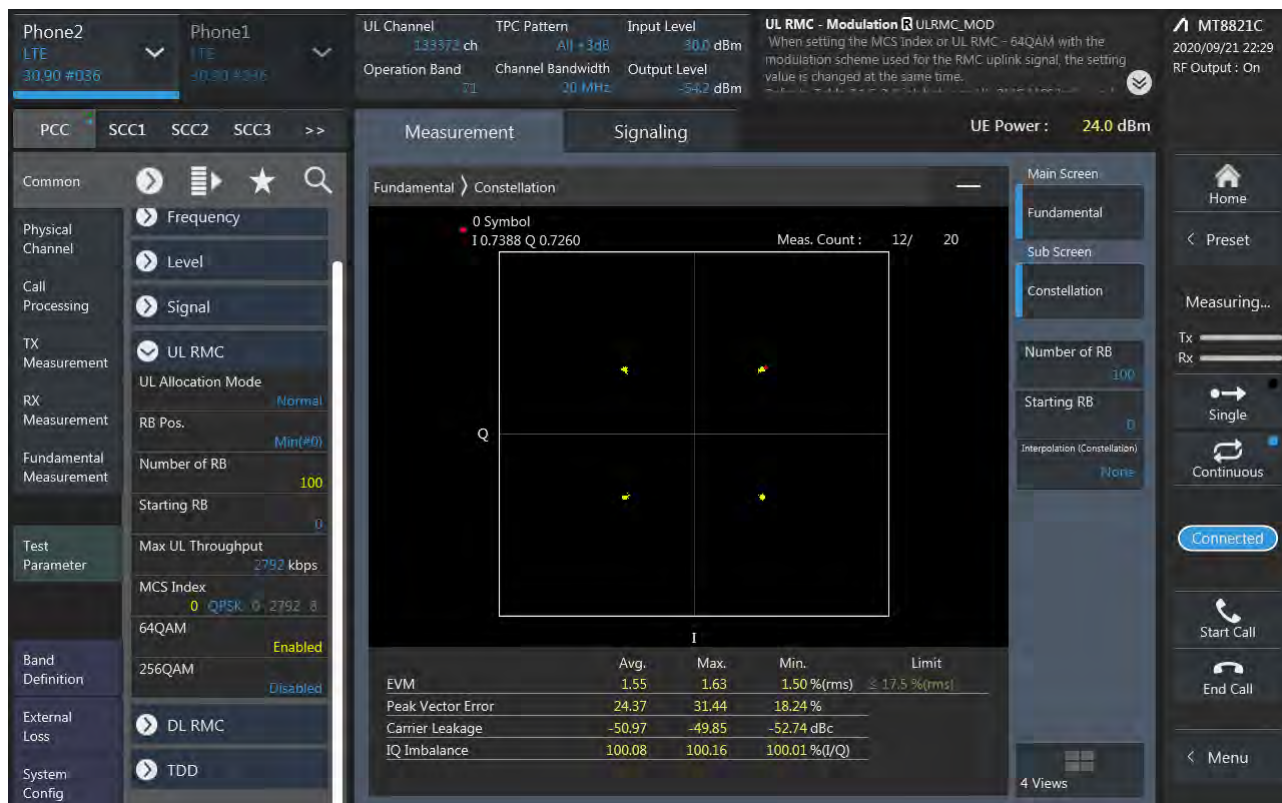




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

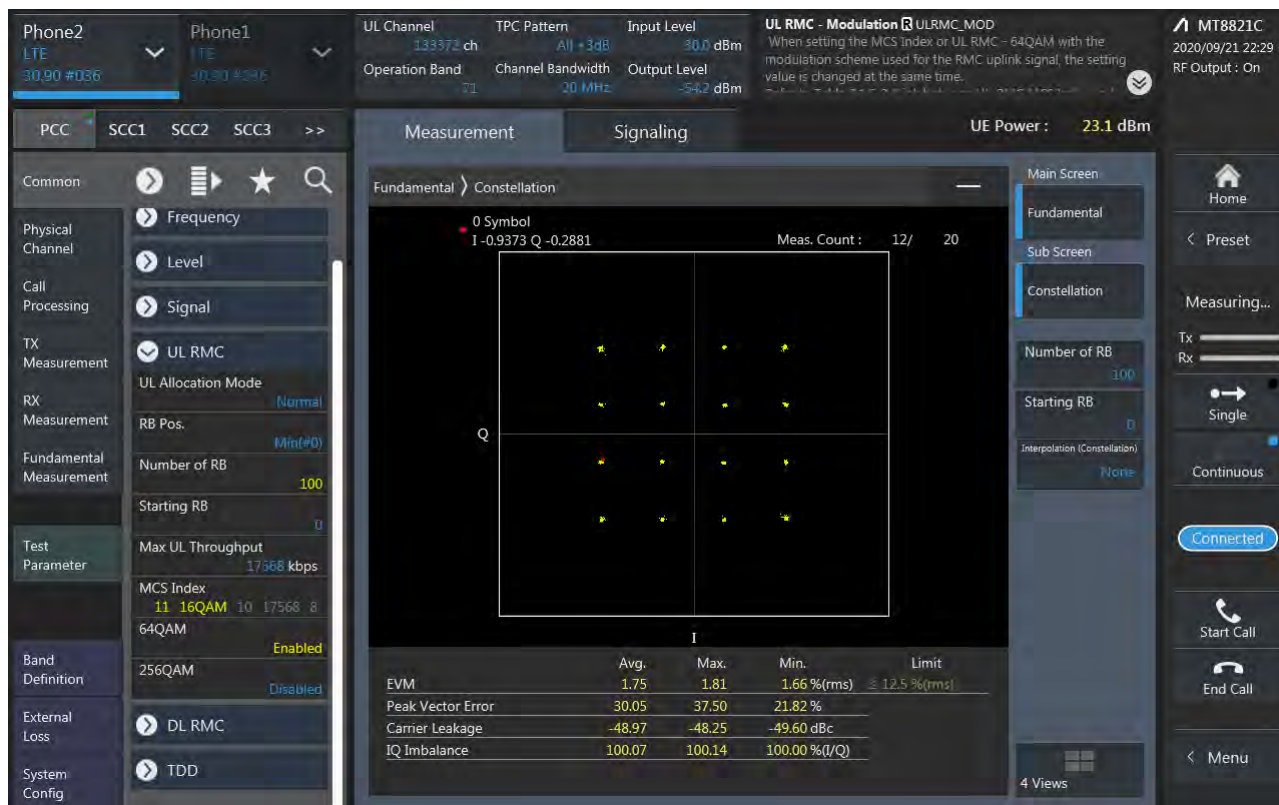
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

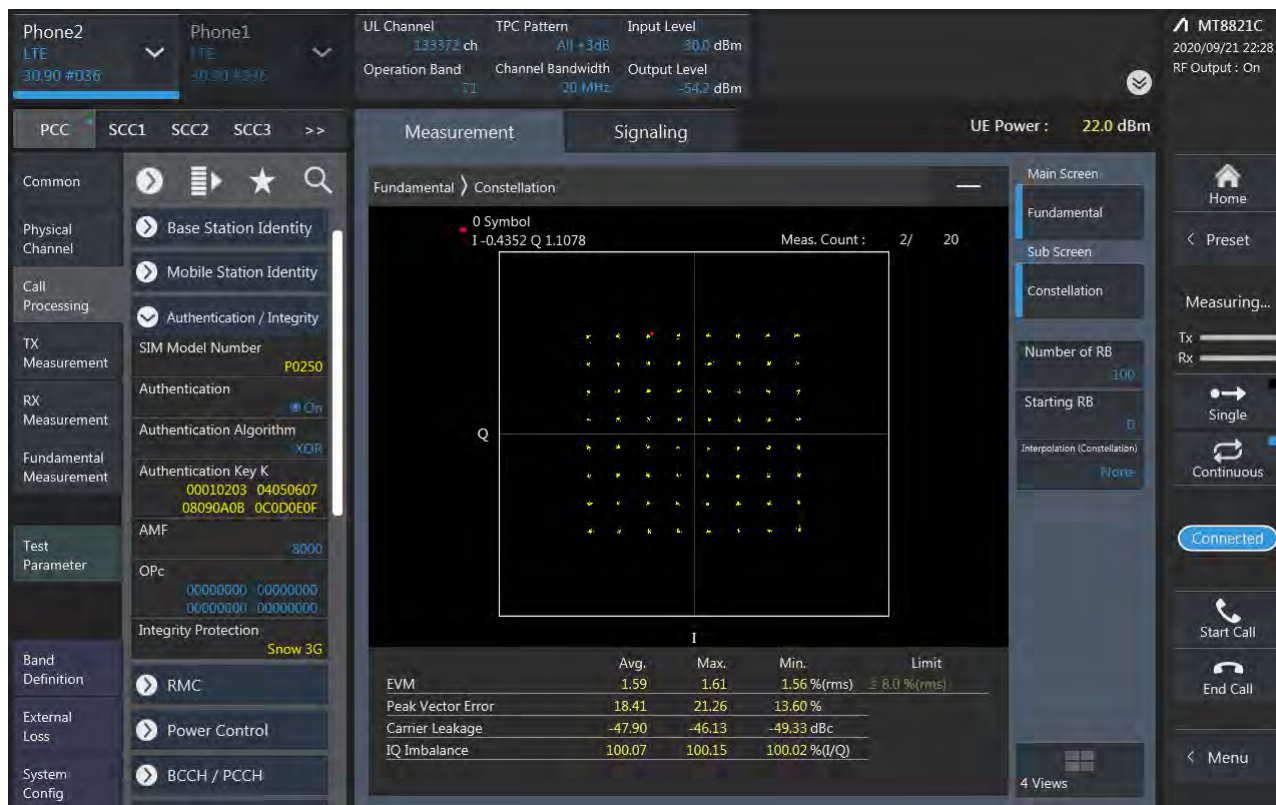
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.920	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.940	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.466	4.930	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	4.940	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.486	4.950	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.486	4.950	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.700	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.931	9.700	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.911	9.740	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.931	9.700	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.720	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.911	9.740	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.427	14.670	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.427	14.790	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.457	14.760	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.397	14.670	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.457	14.670	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.427	14.730	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.822	19.360	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.822	19.360	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.782	19.200	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.742	19.280	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.822	19.280	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.782	19.320	PASS



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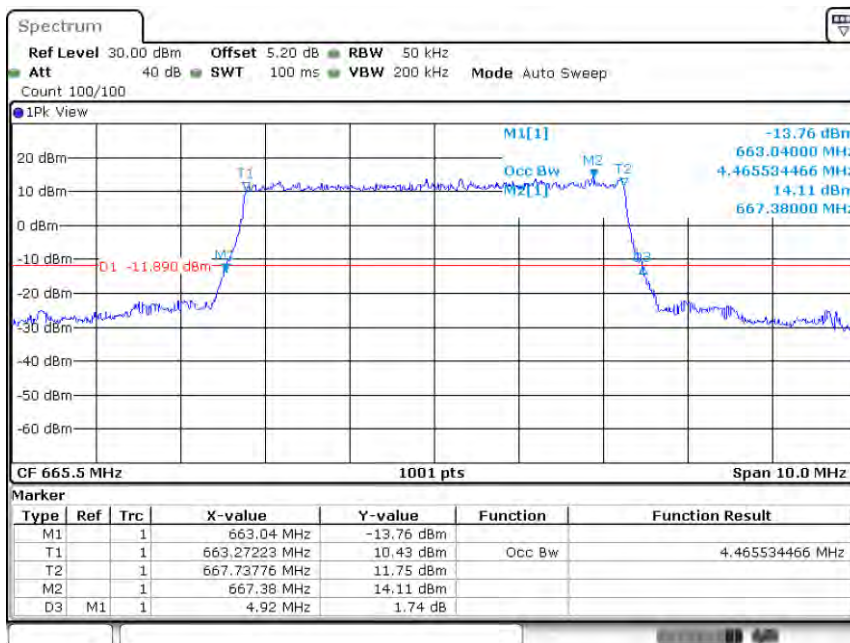
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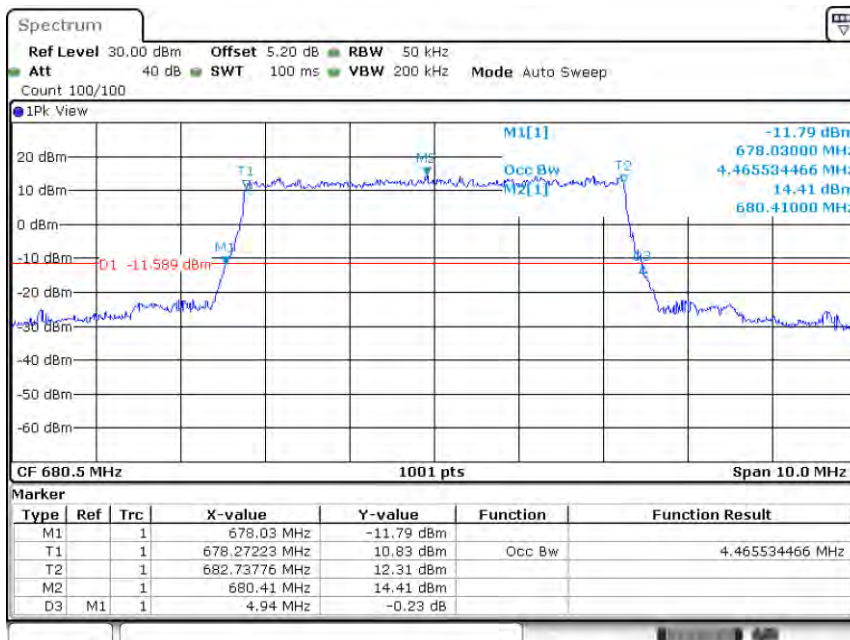
4.2. Test Plots

Band71-5MHz-QPSK-133147-25RB#0-4.466



Date: 1.SEP.2020 11:08:59

Band71-5MHz-QPSK-133297-25RB#0-4.466



Date: 1.SEP.2020 11:09:38

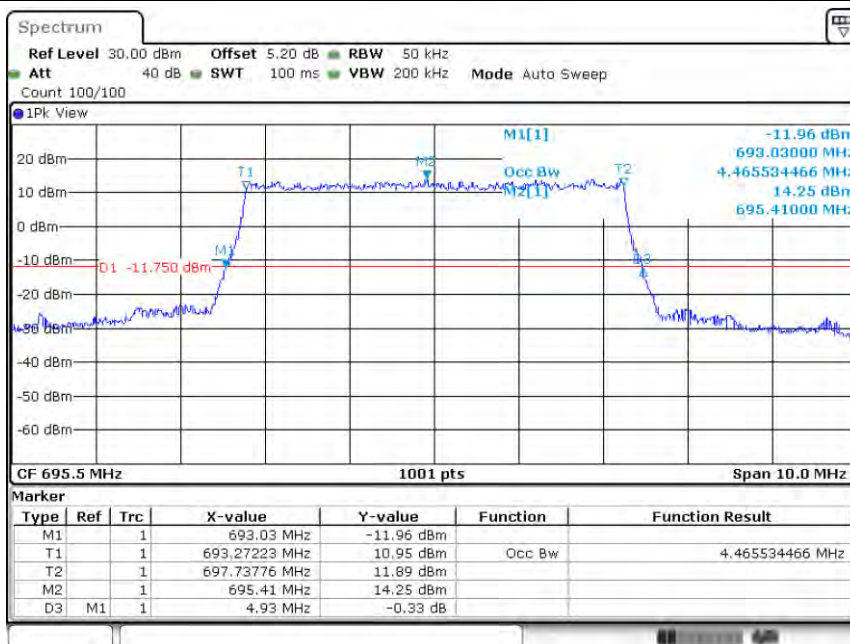


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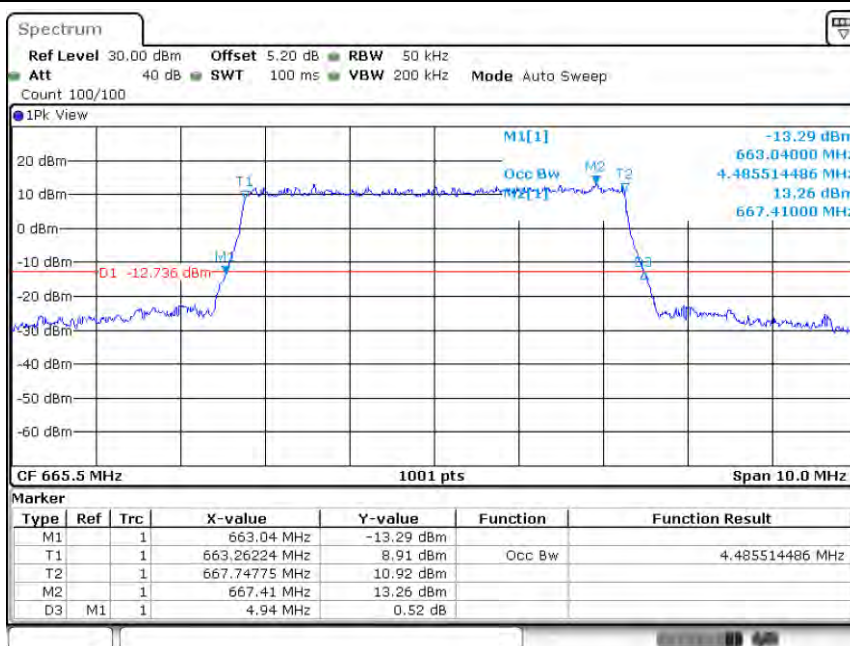


Band71-5MHz-QPSK-133447-25RB#0-4.466



Date: 1.SEP.2020 11:10:18

Band71-5MHz-16QAM-133147-25RB#0-4.486



Date: 1.SEP.2020 11:09:18

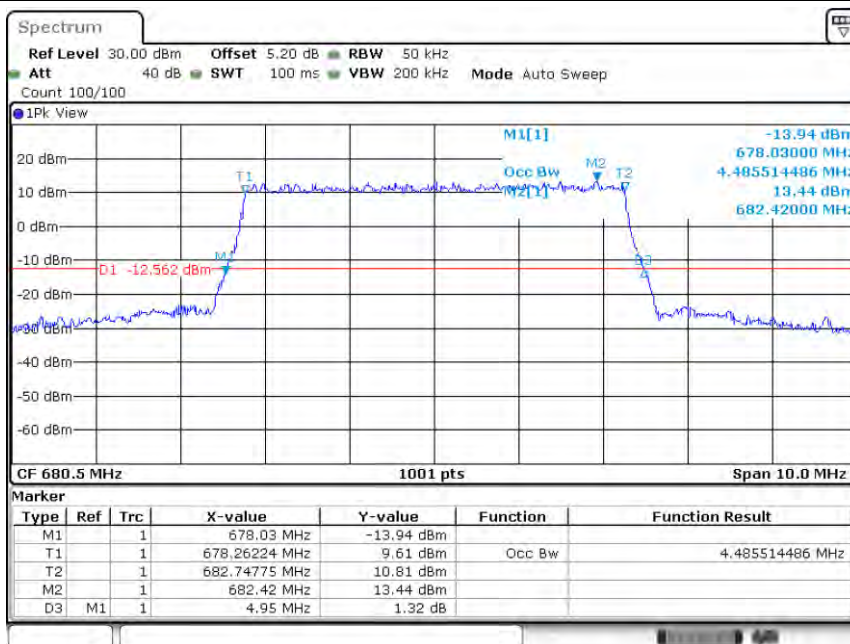


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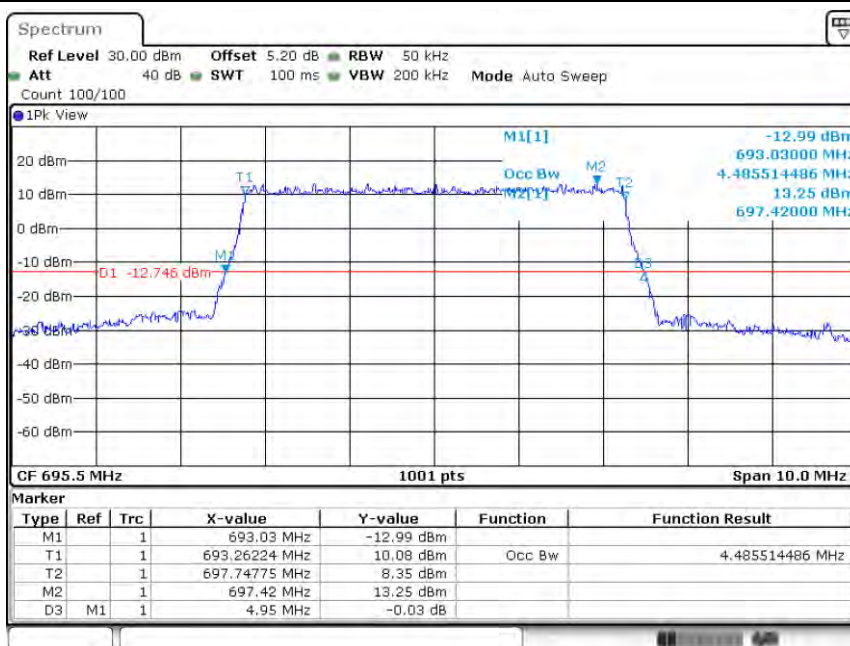


Band71-5MHz-16QAM-133297-25RB#0-4.486



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Date: 1.SEP.2020 11:10:38

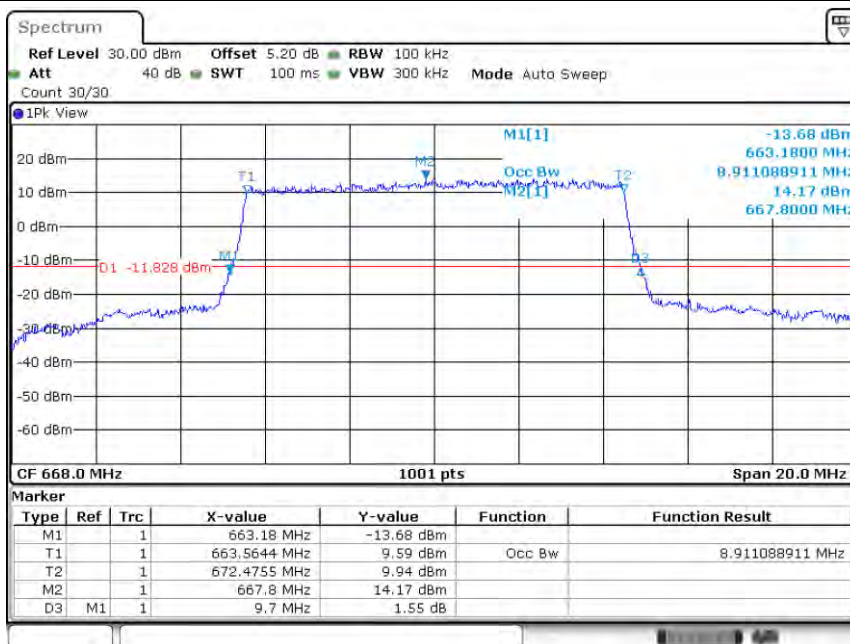


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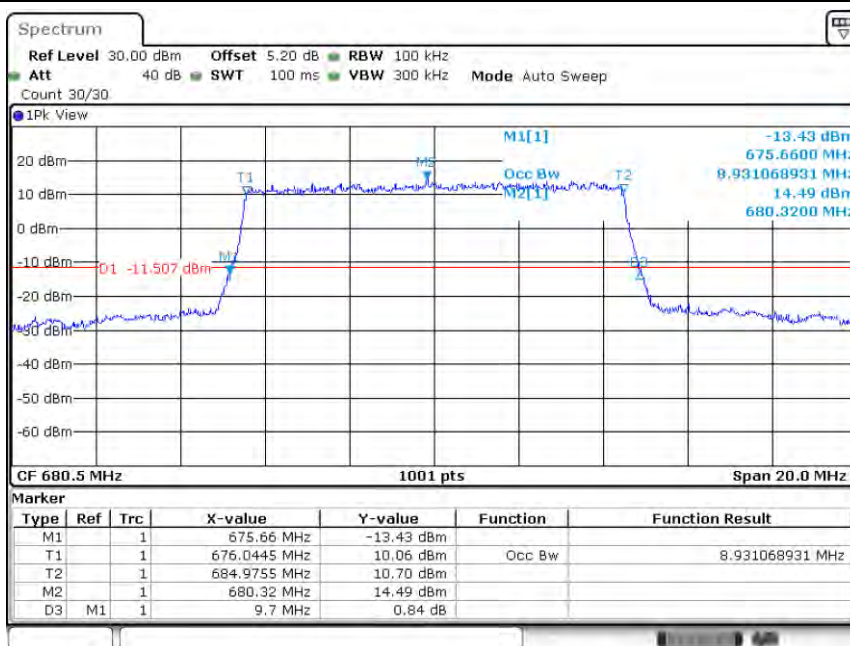


Band71-10MHz-QPSK-133172-50RB#0-8.911



Date: 1.SEP.2020 11:27:05

Band71-10MHz-QPSK-133297-50RB#0-8.931



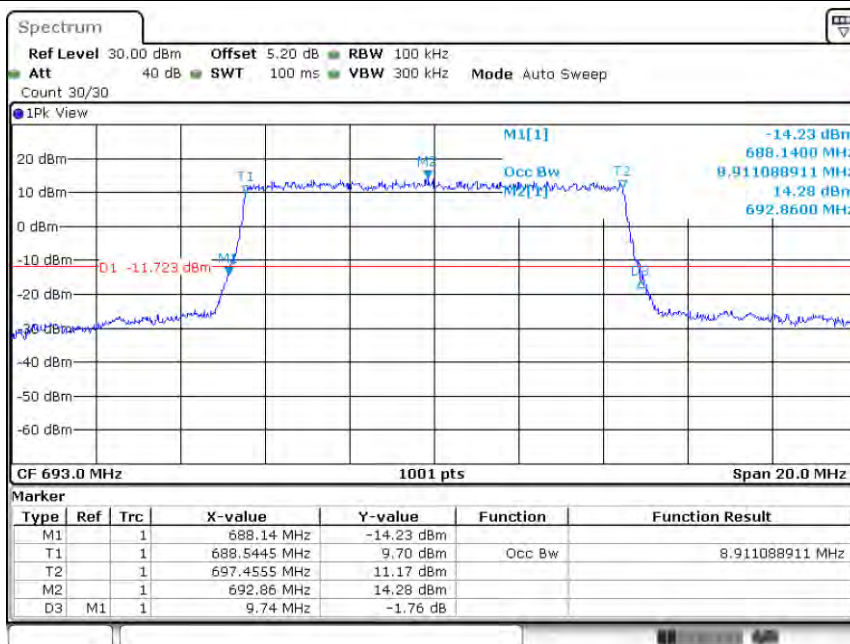
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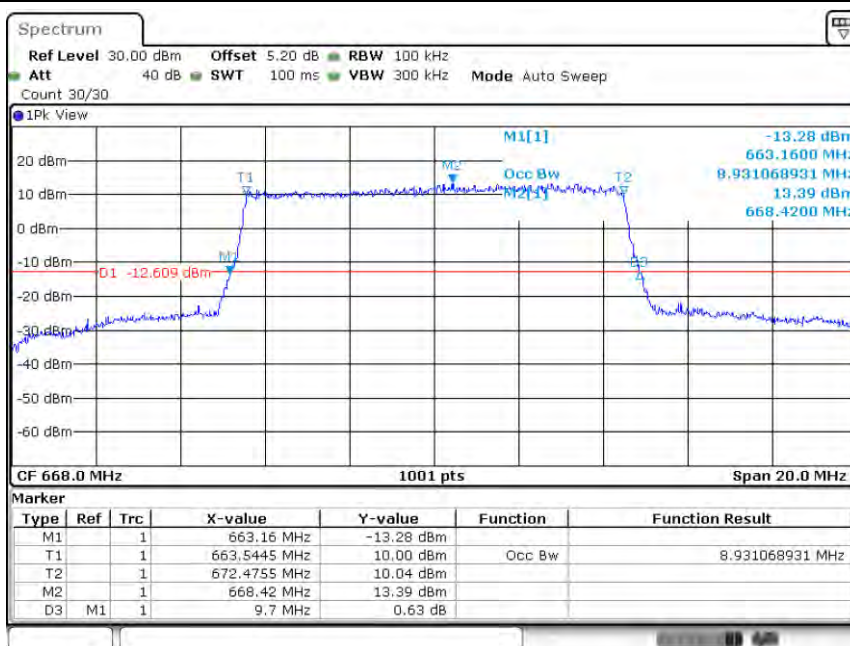
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Band71-10MHz-QPSK-133422-50RB#0-8.911



Date: 1.SEP.2020 11:27:56

Band71-10MHz-16QAM-133172-50RB#0-8.931



Date: 1.SEP.2020 11:27:18

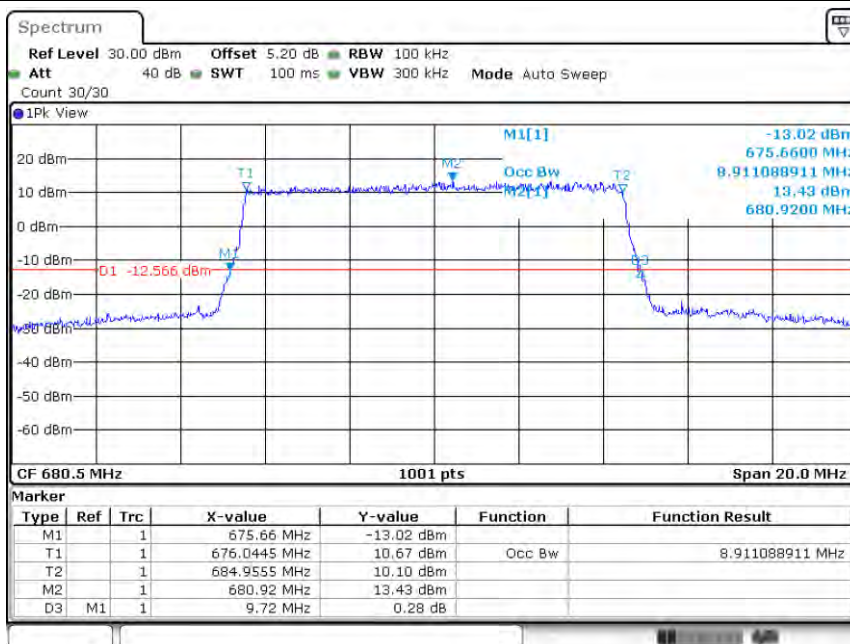


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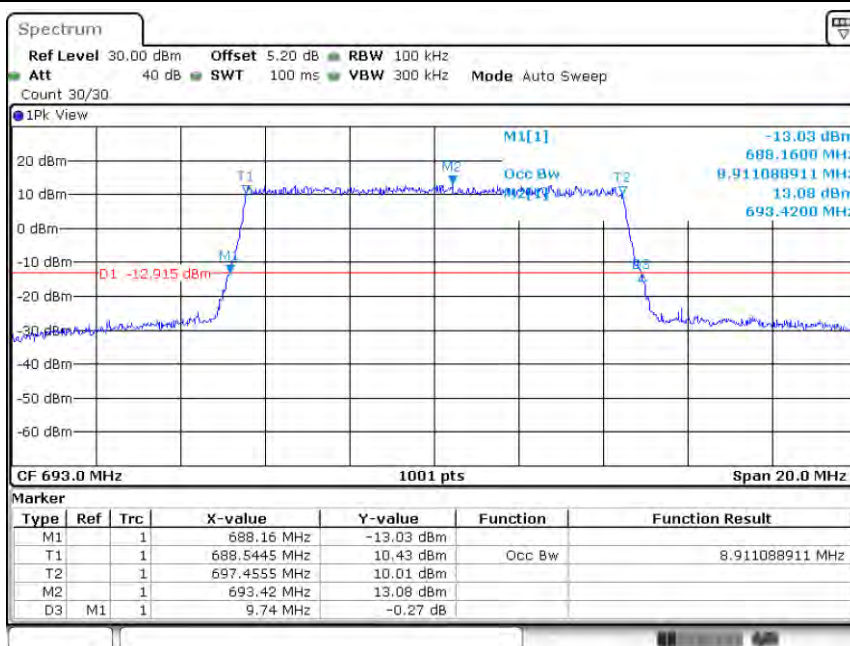
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Band71-10MHz-16QAM-133297-50RB#0-8.911



Date: 1.SEP.2020 11:27:43

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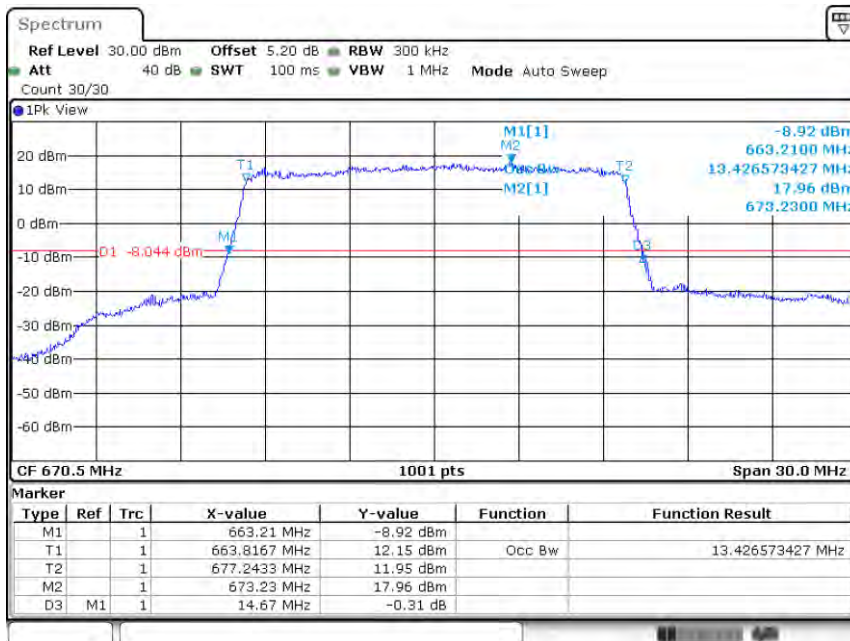


Date: 1.SEP.2020 11:28:09



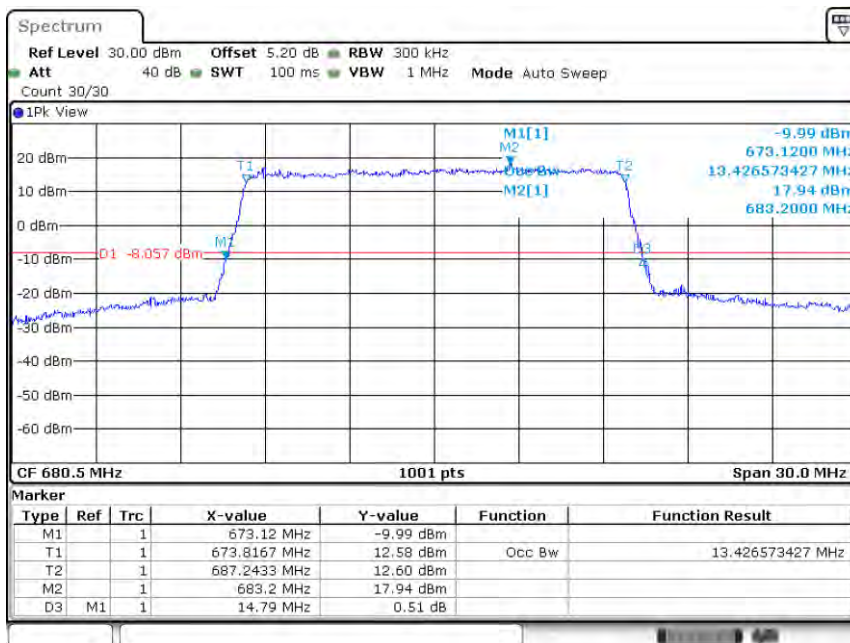


Band71-15MHz-QPSK-133197-75RB#0-13.427



Date: 1.SEP.2020 11:28:26

Band71-15MHz-QPSK-133297-75RB#0-13.427



Date: 1.SEP.2020 11:28:52

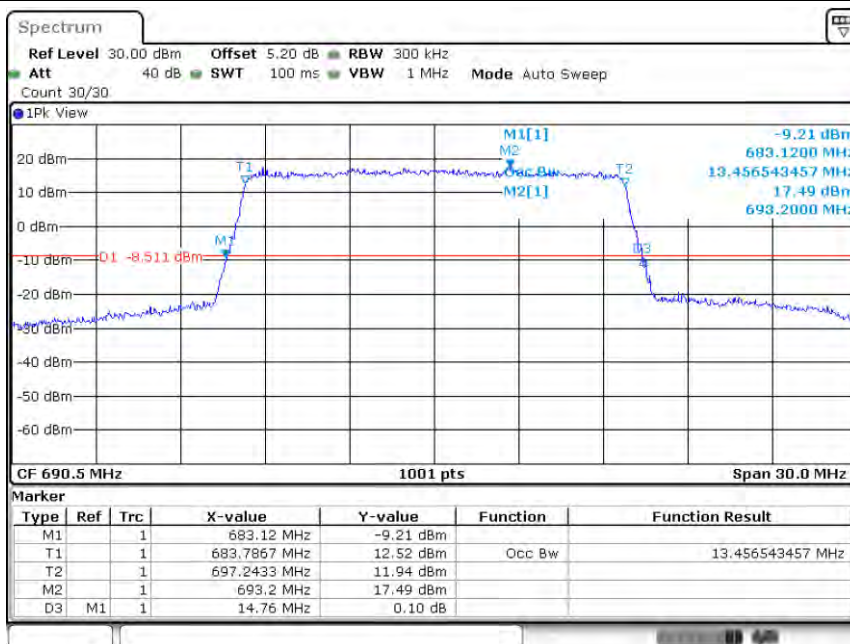


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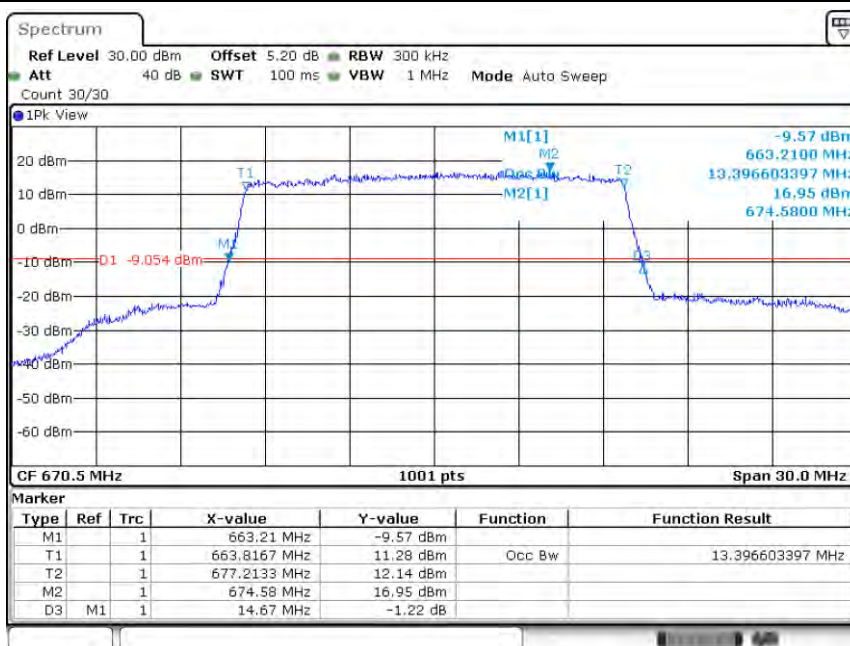


Band71-15MHz-QPSK-133397-75RB#0-13.457



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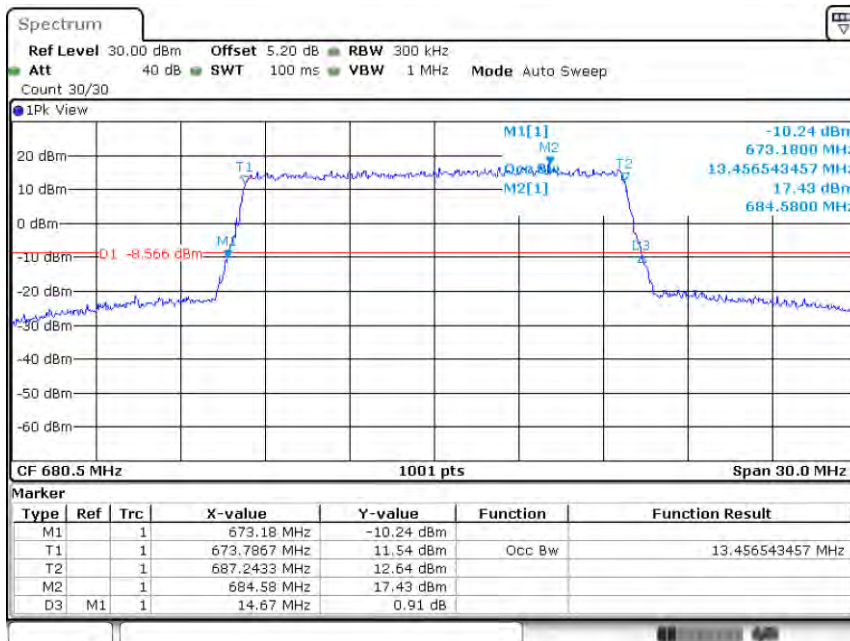


Date: 1.SEP.2020 11:28:39



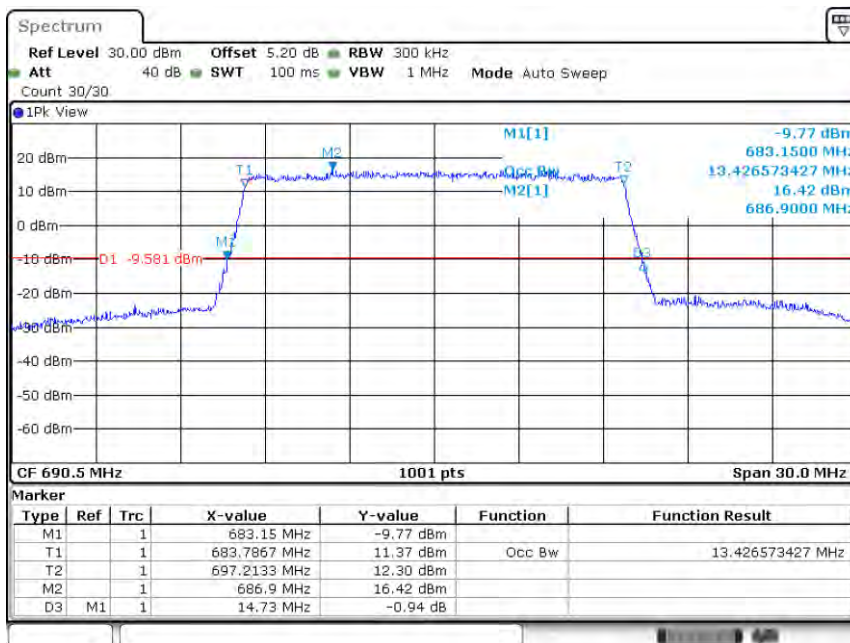


Band71-15MHz-16QAM-133297-75RB#0-13.457



Date: 1.SEP.2020 11:29:05

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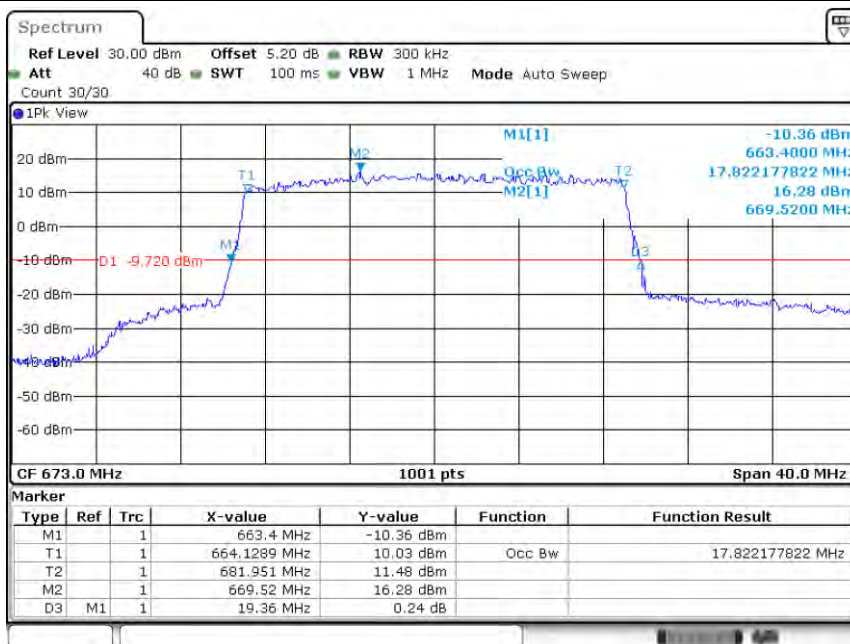


Date: 1.SEP.2020 11:29:30



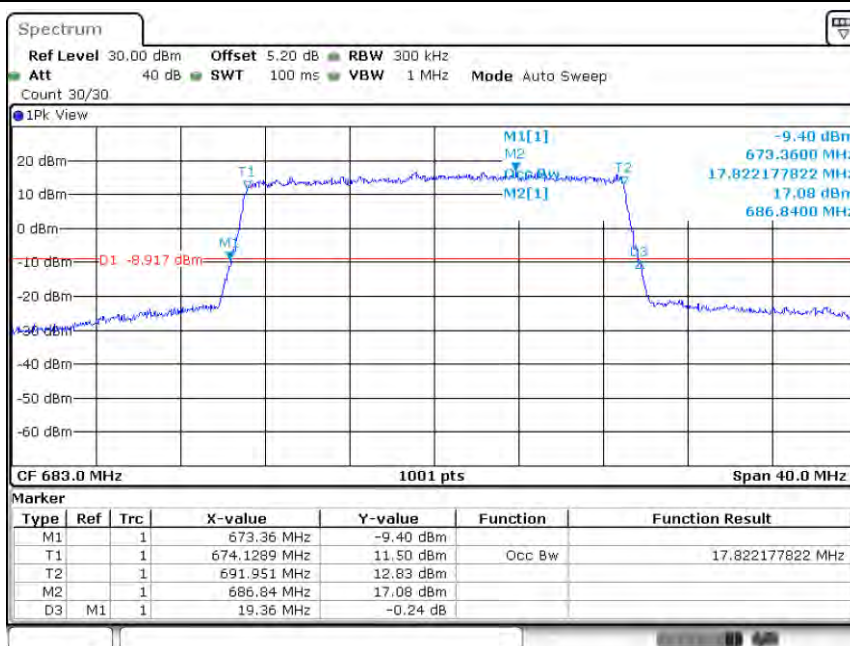


Band71-20MHz-QPSK-133222-100RB#0-17.822



Date: 1.SEP.2020 11:29:48

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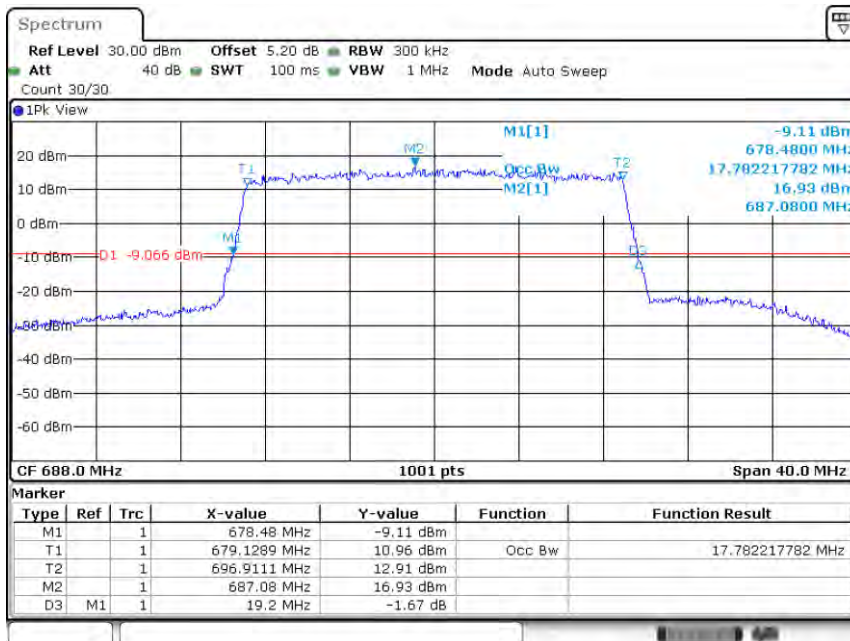


Date: 1.SEP.2020 11:30:14



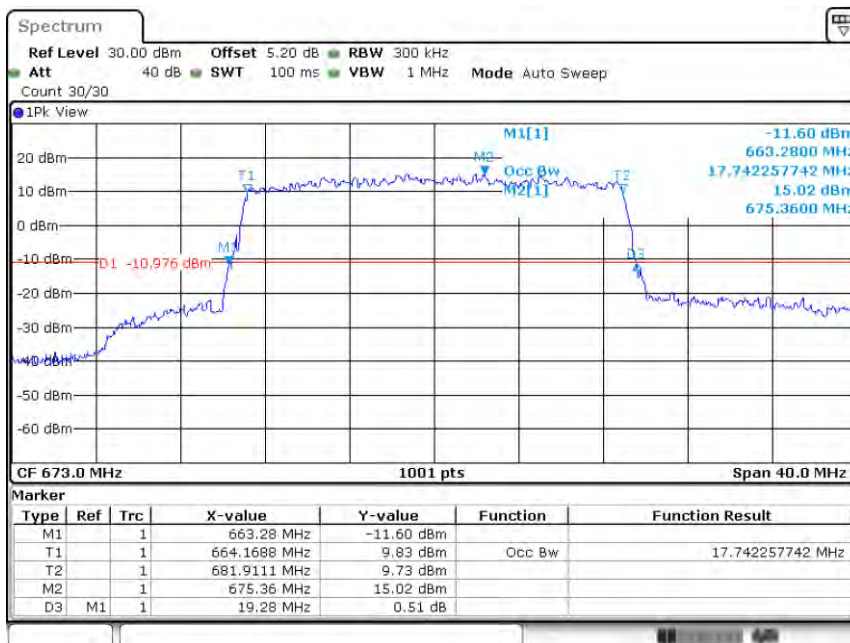


Band71-20MHz-QPSK-133372-100RB#0-17.782



Date: 1.SEP.2020 11:30:39

Band71-20MHz-16QAM-133222-100RB#0-17.742



Date: 1.SEP.2020 11:30:01

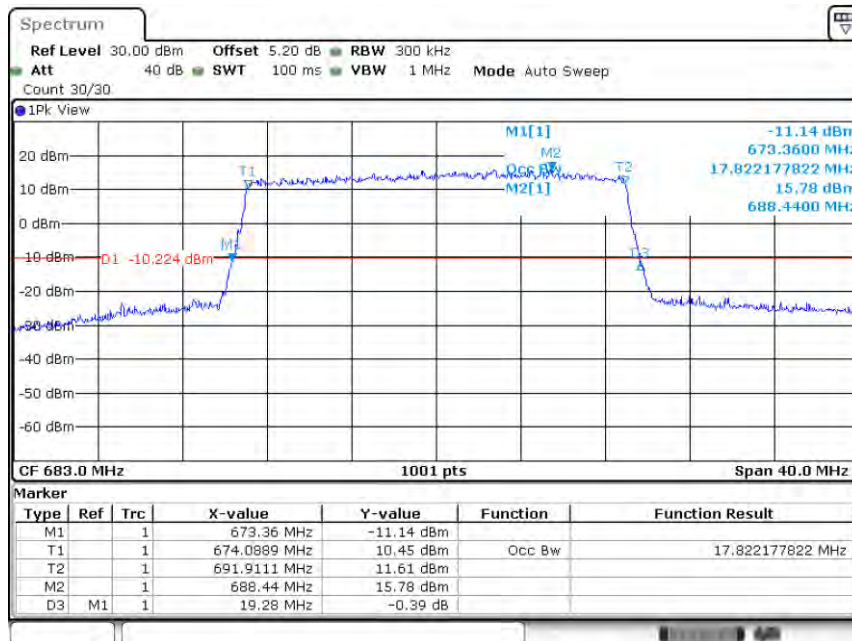


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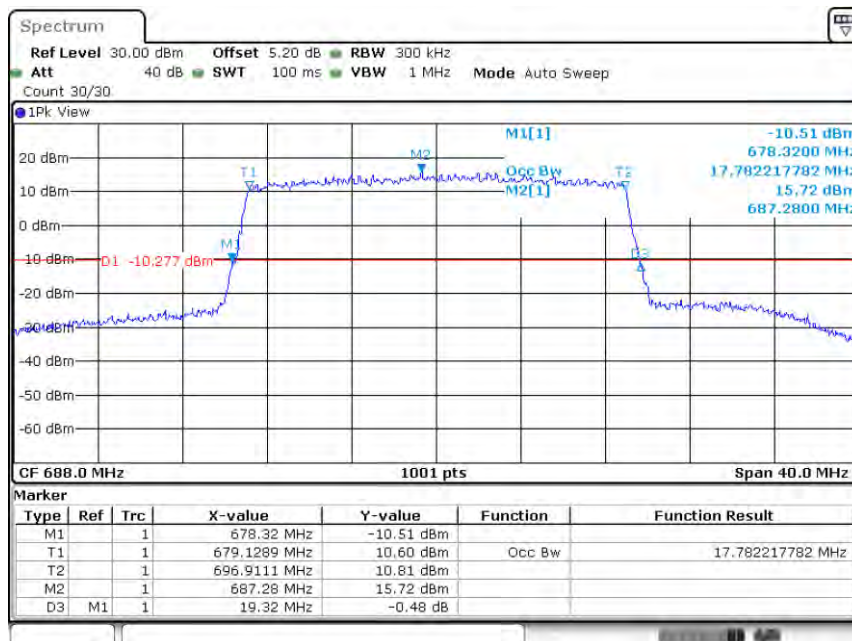


Band71-20MHz-16QAM-133322-100RB#0-17.822



Date: 1.SEP.2020 11:30:26

Band71-20MHz-16QAM-133372-100RB#0-17.782



Date: 1.SEP.2020 11:30:52



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-23.69	PASS
Band71	5MHz	QPSK	133147	25RB#0	-28.33	PASS
Band71	5MHz	QPSK	133447	1RB#24	-23.31	PASS
Band71	5MHz	QPSK	133447	25RB#0	-29.62	PASS
Band71	5MHz	16QAM	133147	1RB#0	-23.78	PASS
Band71	5MHz	16QAM	133147	25RB#0	-29.03	PASS
Band71	5MHz	16QAM	133447	1RB#24	-24.23	PASS
Band71	5MHz	16QAM	133447	25RB#0	-29.86	PASS
Band71	10MHz	QPSK	133172	1RB#0	-34.05	PASS
Band71	10MHz	QPSK	133172	50RB#0	-31.31	PASS
Band71	10MHz	QPSK	133422	1RB#49	-33.02	PASS
Band71	10MHz	QPSK	133422	50RB#0	-31.11	PASS
Band71	10MHz	16QAM	133172	1RB#0	-33.86	PASS
Band71	10MHz	16QAM	133172	50RB#0	-32.14	PASS
Band71	10MHz	16QAM	133422	1RB#49	-34.72	PASS
Band71	10MHz	16QAM	133422	50RB#0	-32.53	PASS
Band71	15MHz	QPSK	133197	1RB#0	-25.26	PASS
Band71	15MHz	QPSK	133197	75RB#0	-30.19	PASS
Band71	15MHz	QPSK	133397	1RB#74	-23.40	PASS
Band71	15MHz	QPSK	133397	75RB#0	-29.38	PASS
Band71	15MHz	16QAM	133197	1RB#0	-25.84	PASS
Band71	15MHz	16QAM	133197	75RB#0	-31.09	PASS
Band71	15MHz	16QAM	133397	1RB#74	-23.50	PASS
Band71	15MHz	16QAM	133397	75RB#0	-30.86	PASS
Band71	20MHz	QPSK	133222	1RB#0	-30.89	PASS
Band71	20MHz	QPSK	133222	100RB#0	-31.90	PASS
Band71	20MHz	QPSK	133372	1RB#99	-28.82	PASS
Band71	20MHz	QPSK	133372	100RB#0	-30.79	PASS
Band71	20MHz	16QAM	133222	1RB#0	-30.84	PASS
Band71	20MHz	16QAM	133222	100RB#0	-32.65	PASS
Band71	20MHz	16QAM	133372	1RB#99	-31.07	PASS
Band71	20MHz	16QAM	133372	100RB#0	-32.01	PASS



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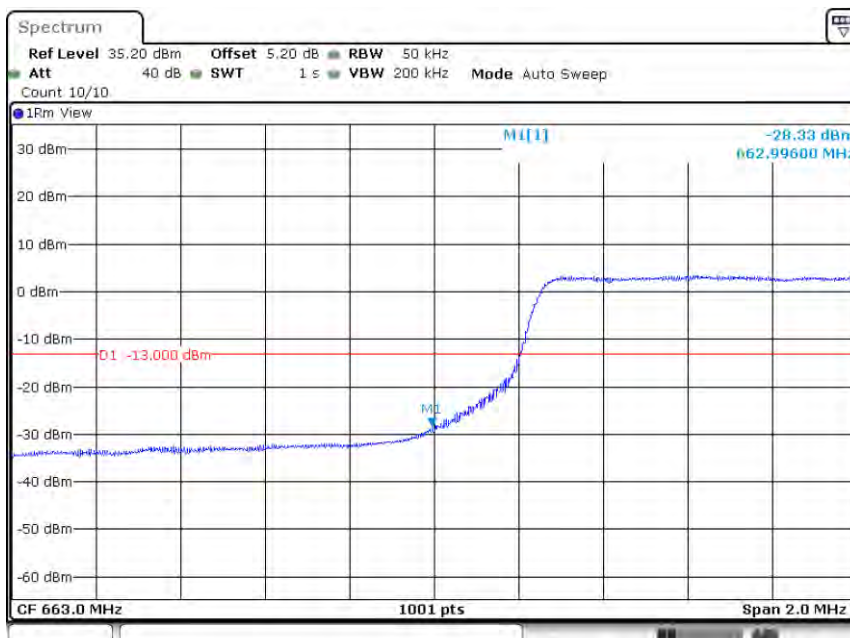
5.2. Test Plots

Band71-5MHz-QPSK-133147-1RB#0



Date: 1.SEP.2020 11:31:17

Band71-5MHz-QPSK-133147-25RB#0



Date: 1.SEP.2020 11:31:58



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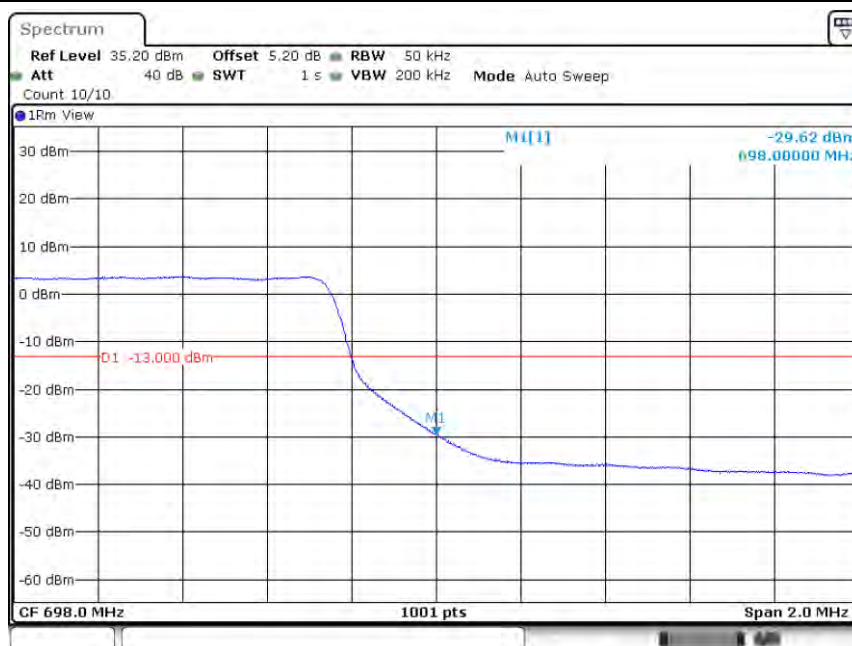


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Date: 1.SEP.2020 11:32:44

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Date: 1.SEP.2020 11:33:25

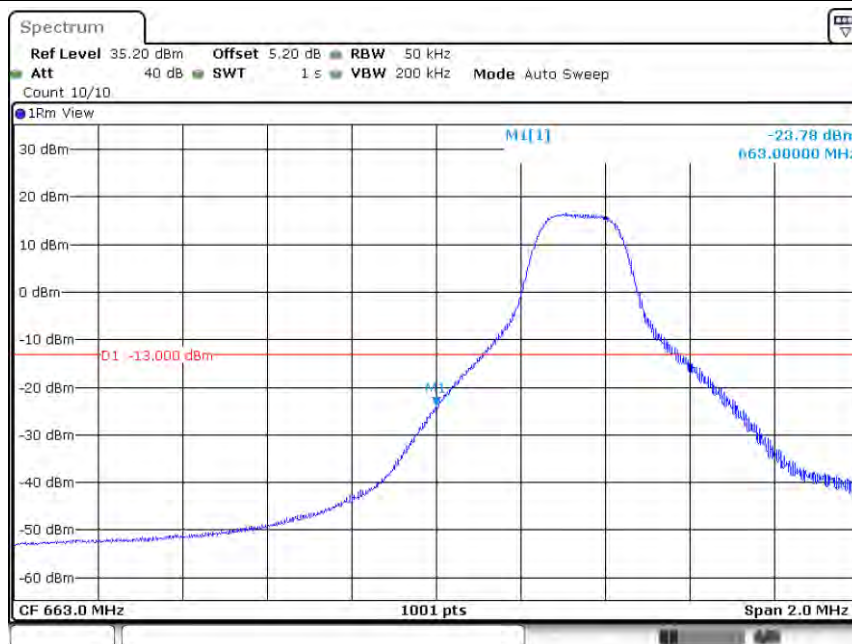


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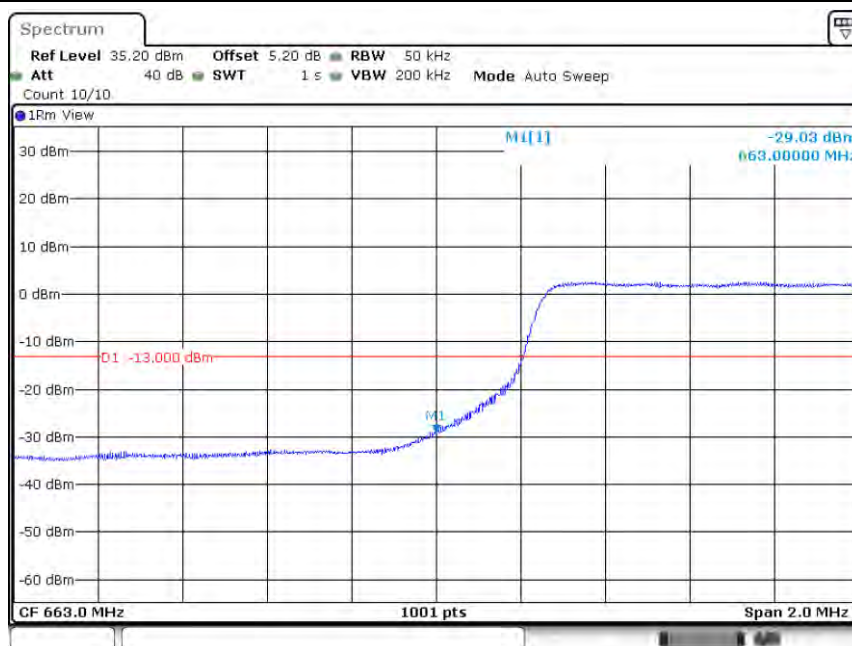


Band71-5MHz-16QAM-133147-1RB#0



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Band71-5MHz-16QAM-133147-25RB#0



Date: 1.SEP.2020 11:32:19



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Band71-5MHz-16QAM-133447-1RB#24



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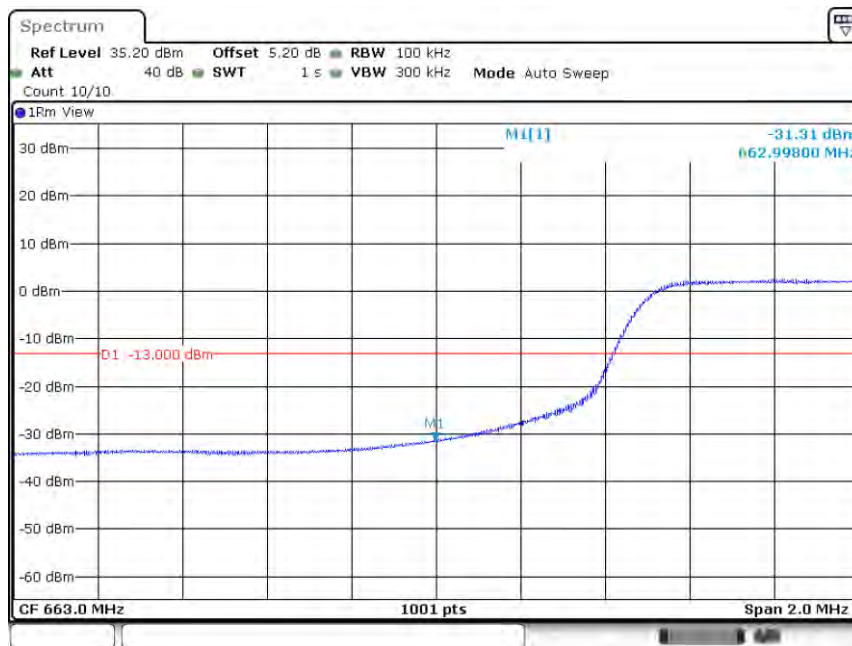
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Band71-10MHz-QPSK-133172-1RB#0



Date: 1.SEP.2020 11:34:11

Band71-10MHz-QPSK-133172-50RB#0



Date: 1.SEP.2020 11:34:52

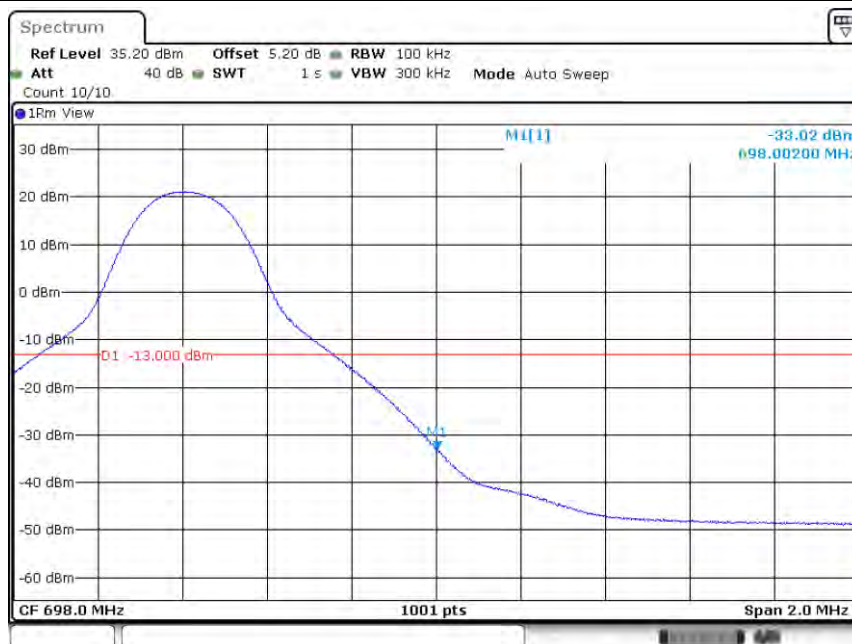


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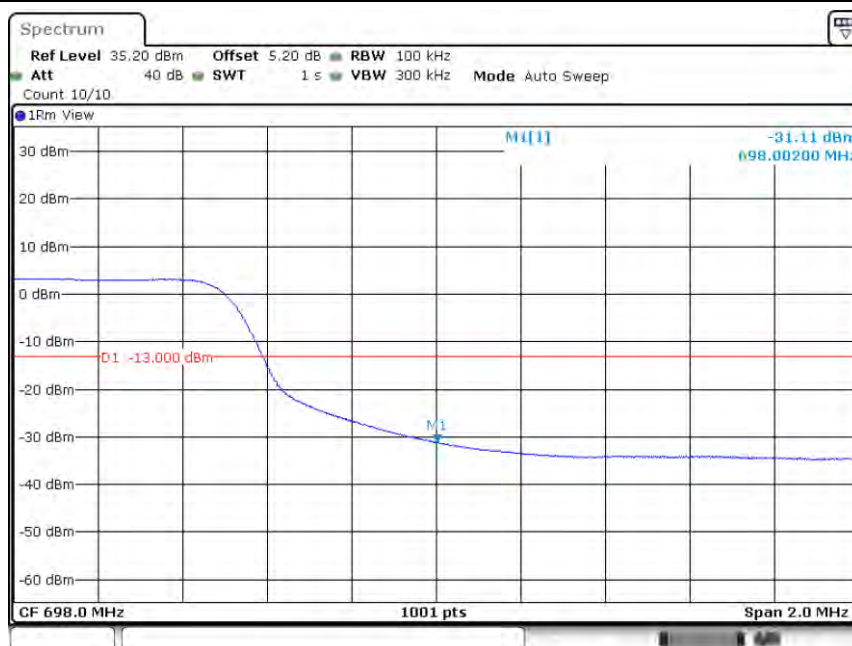


Band71-10MHz-QPSK-133422-1RB#49



Date: 1.SEP.2020 11:35:37

Band71-10MHz-QPSK-133422-50RB#0



Date: 1.SEP.2020 11:36:18



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Band71-10MHz-16QAM-133172-1RB#0



Date: 1.SEP.2020 11:34:31

Band71-10MHz-16QAM-133172-50RB#0



Date: 1.SEP.2020 11:35:12



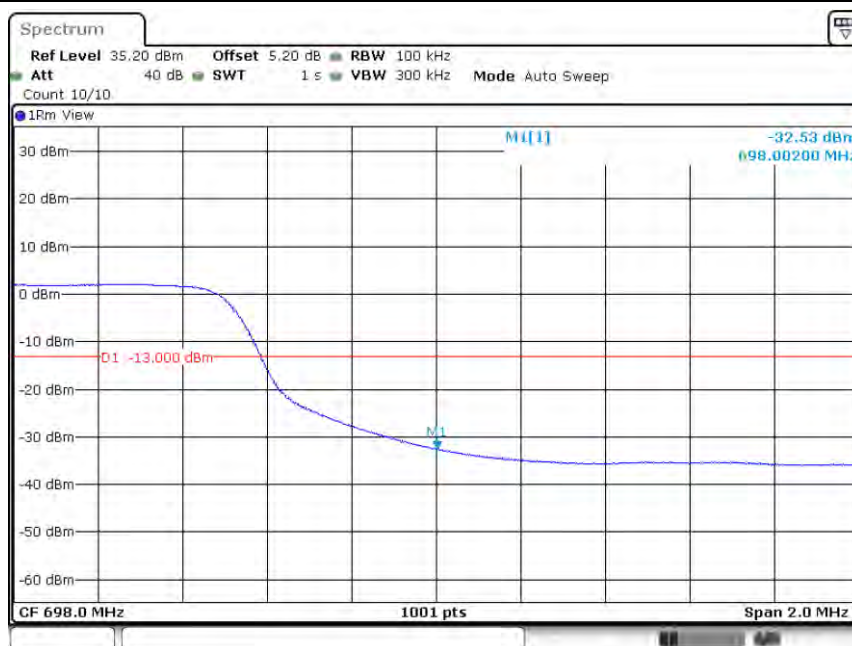


Band71-10MHz-16QAM-133422-1RB#49



Date: 1.SEP.2020 11:35:58

Band71-10MHz-16QAM-133422-50RB#0



Date: 1.SEP.2020 11:36:39



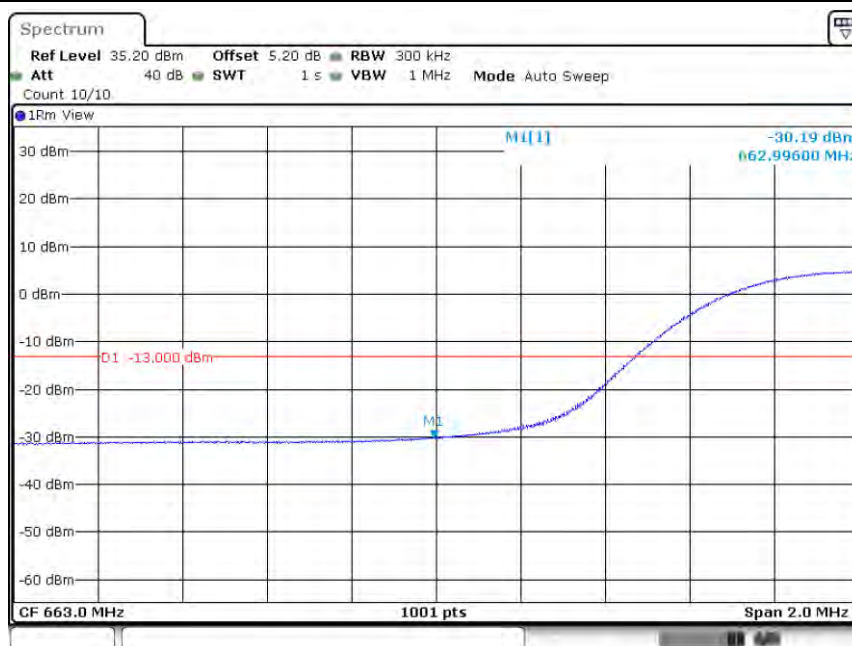


Band71-15MHz-QPSK-133197-1RB#0



Date: 1.SEP.2020 11:37:05

Band71-15MHz-QPSK-133197-75RB#0



Date: 1.SEP.2020 11:37:46



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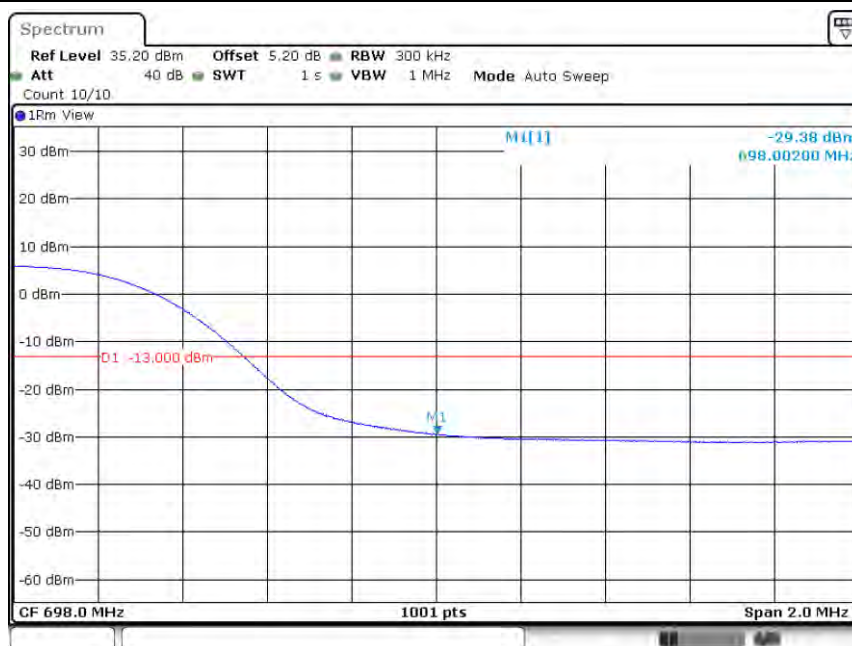


Band71-15MHz-QPSK-133397-1RB#74



Date: 1.SEP.2020 11:38:31

Band71-15MHz-QPSK-133397-75RB#0



Date: 1.SEP.2020 11:39:12



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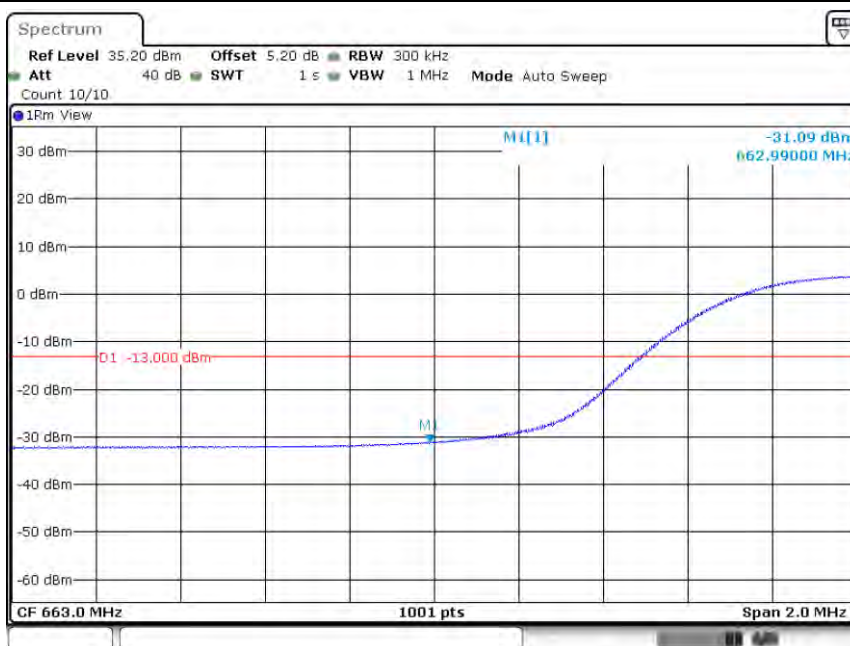


Band71-15MHz-16QAM-133197-1RB#0



Date: 1.SEP.2020 11:37:25

Band71-15MHz-16QAM-133197-75RB#0



Date: 1.SEP.2020 11:38:06



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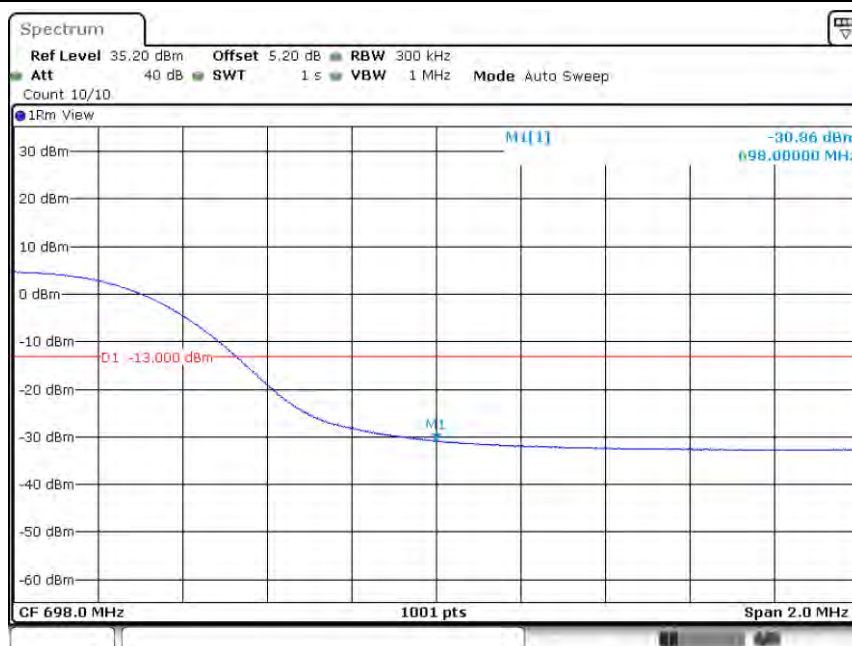


Band71-15MHz-16QAM-133397-1RB#74



Date: 1.SEP.2020 11:38:51

Band71-15MHz-16QAM-133397-75RB#0



Date: 1.SEP.2020 11:39:32



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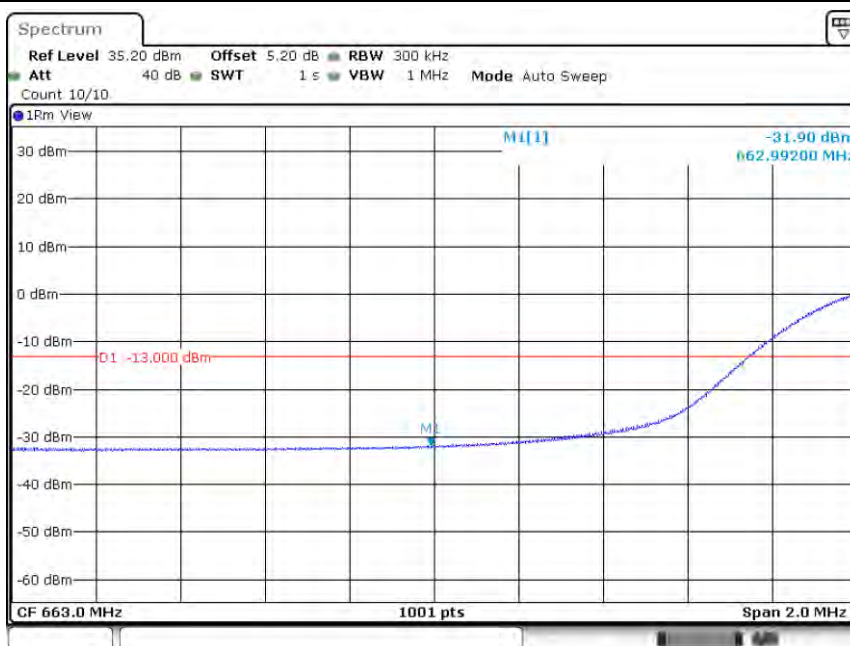


Band71-20MHz-QPSK-133222-1RB#0



Date: 1.SEP.2020 11:39:58

Band71-20MHz-QPSK-133222-100RB#0



Date: 1.SEP.2020 11:40:39



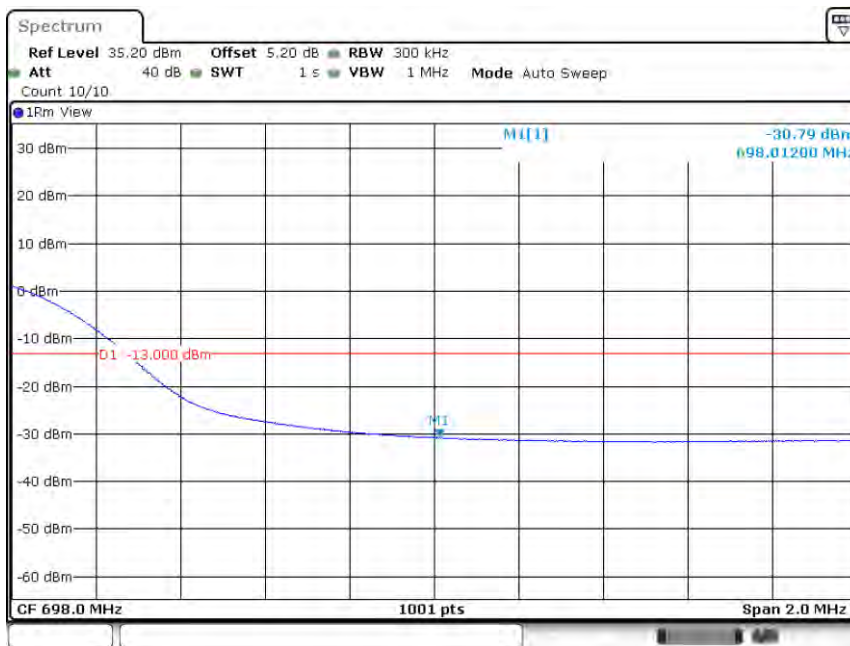


Band71-20MHz-QPSK-133372-1RB#99



Date: 1.SEP.2020 11:41:24

Band71-20MHz-QPSK-133372-100RB#0



Date: 1.SEP.2020 11:42:05

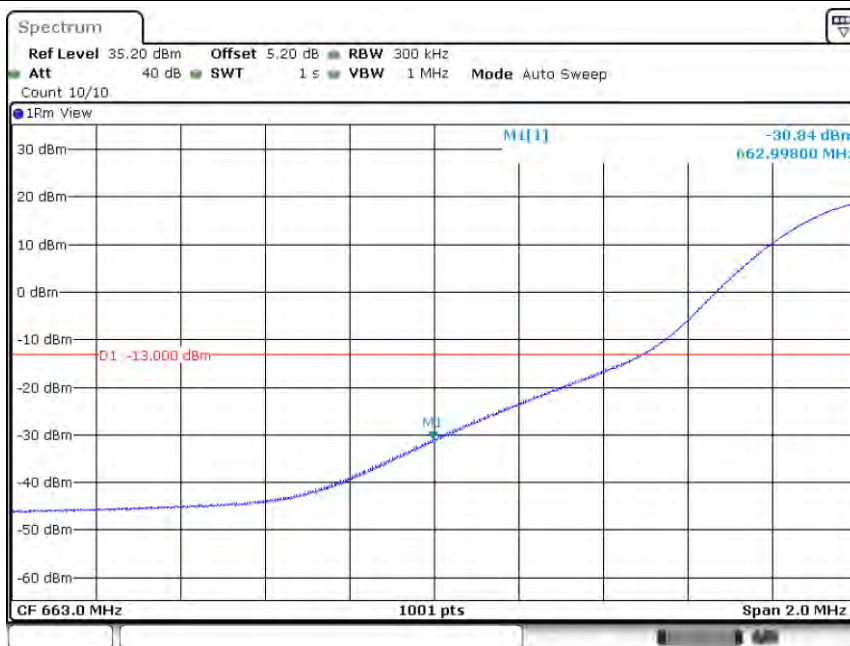


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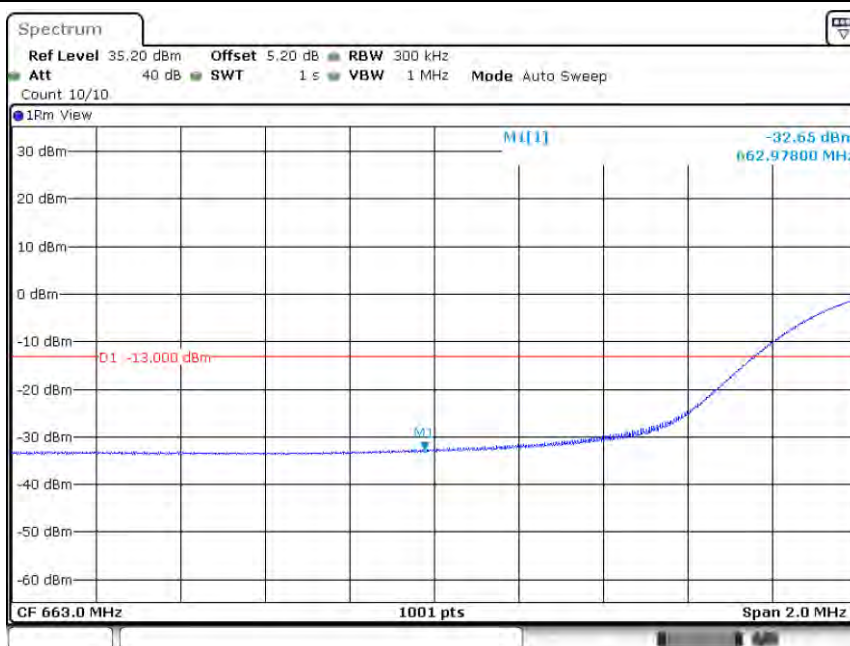


Band71-20MHz-16QAM-133222-1RB#0



Date: 1.SEP.2020 11:40:18

Band71-20MHz-16QAM-133222-100RB#0



Date: 1.SEP.2020 11:40:59



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Band71-20MHz-16QAM-133372-1RB#99



Date: 1.SEP.2020 11:41:45

Band71-20MHz-16QAM-133372-100RB#0



Date: 1.SEP.2020 11:42:26



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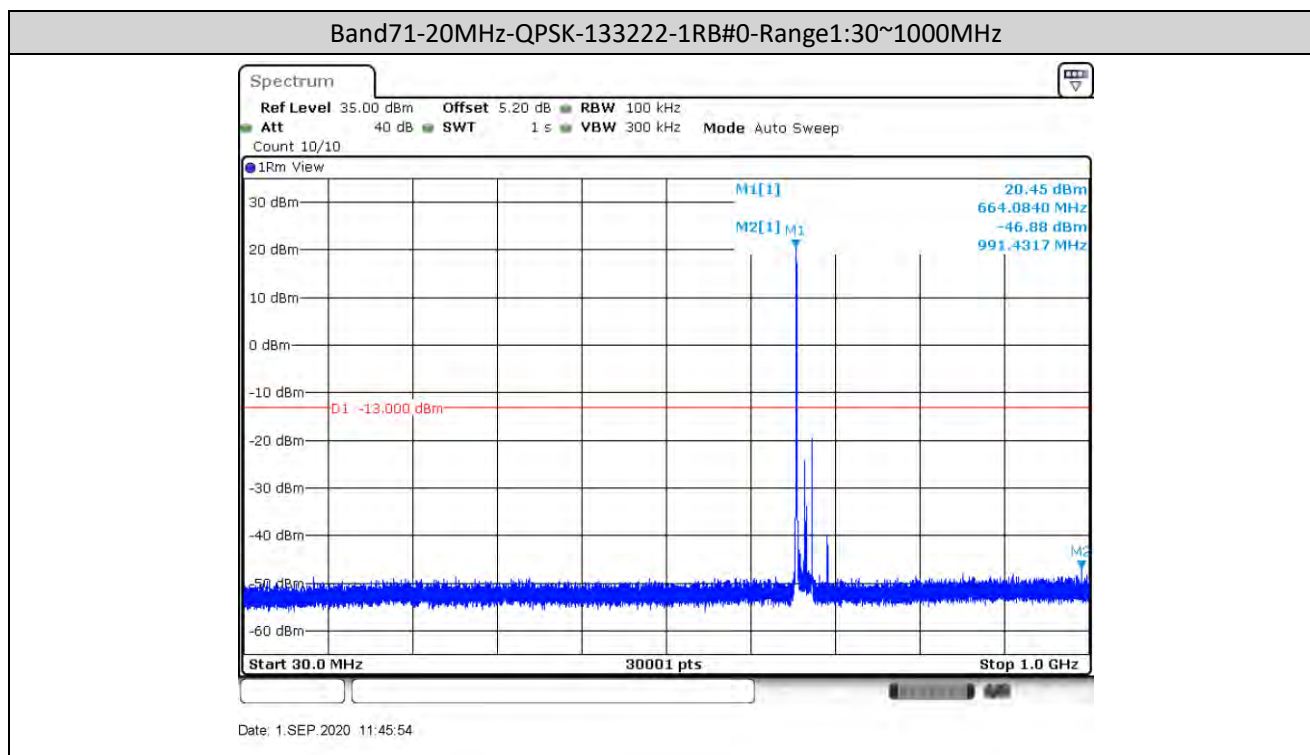
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6. Spurious Emission at Antenna Terminal

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.

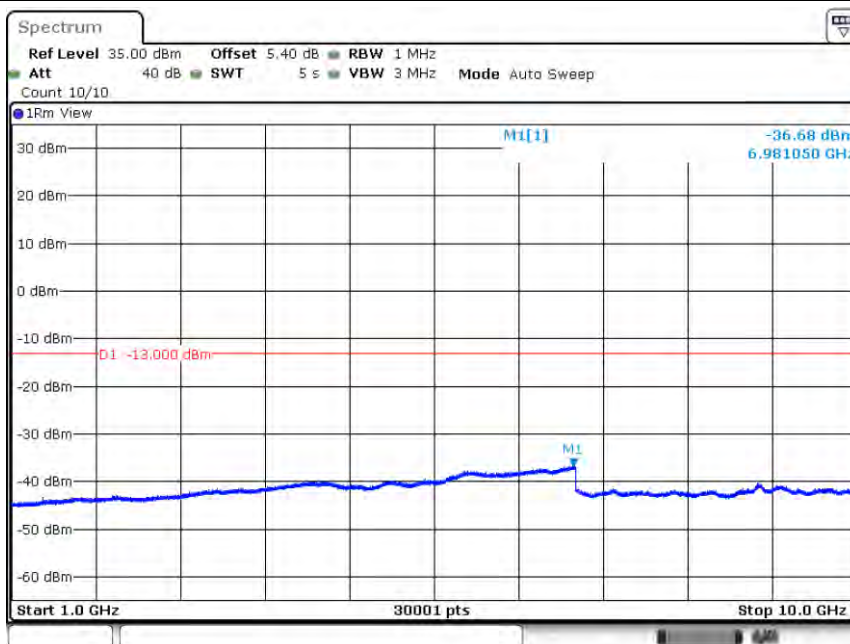
6.1. Test Plots



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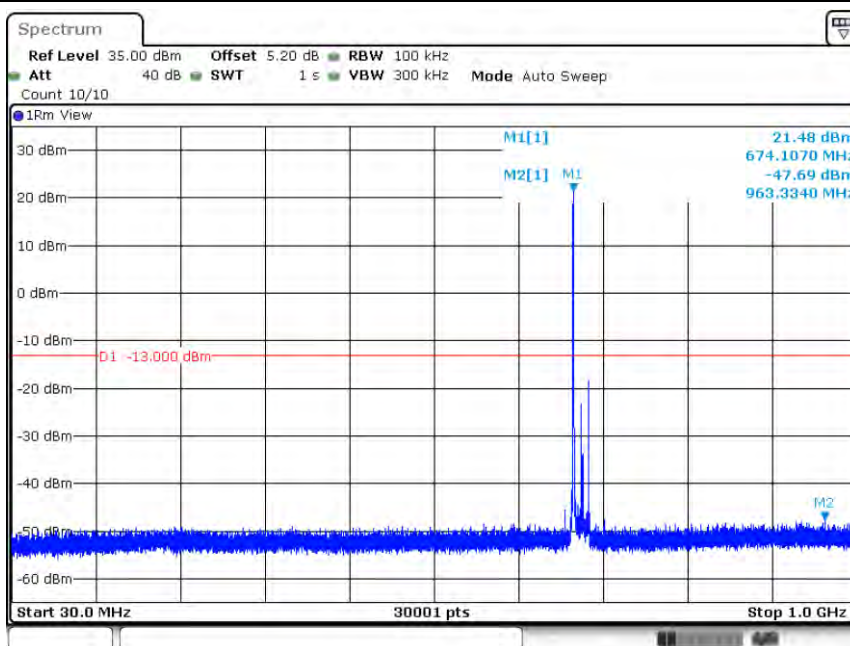
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Band71-20MHz-QPSK-133222-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:00:52

Band71-20MHz-QPSK-133322-1RB#0-Range1:30~1000MHz



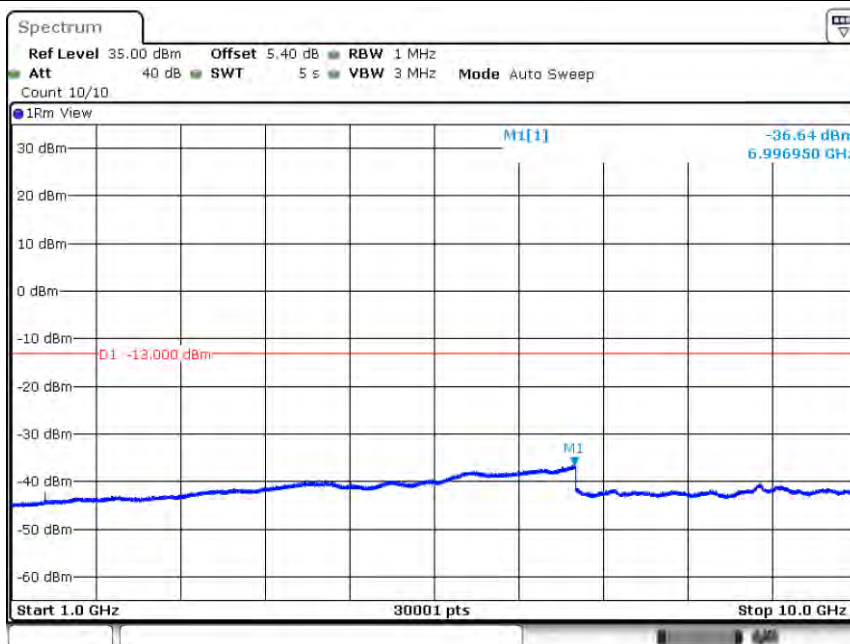
Date: 1.SEP.2020 11:51:41



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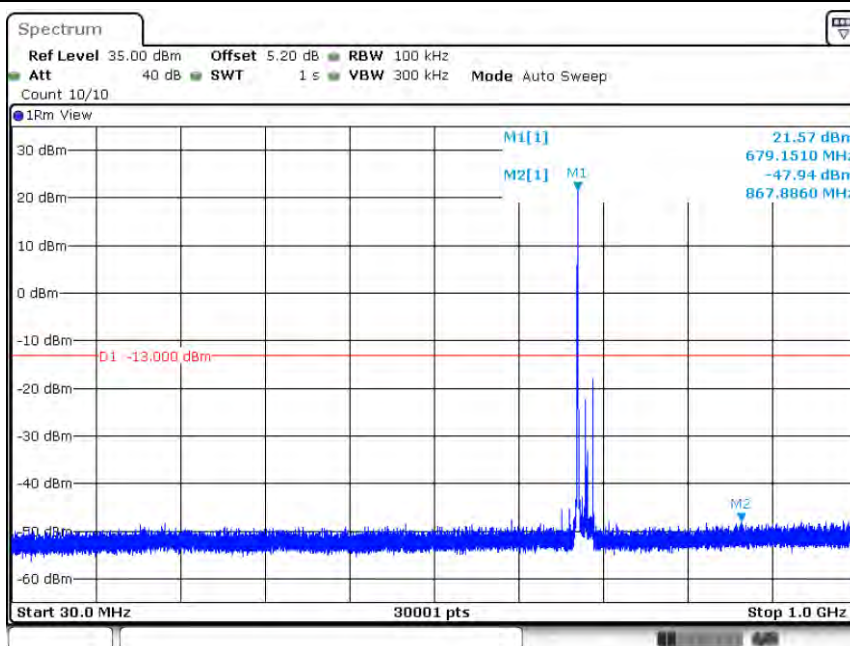
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Band71-20MHz-QPSK-133322-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:03:14

Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz



Date: 1.SEP.2020 12:06:46

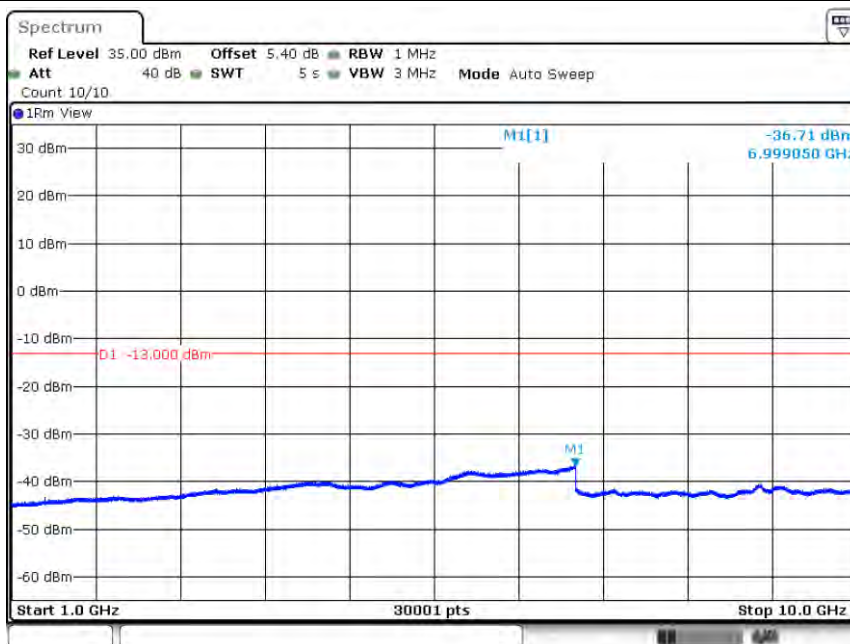


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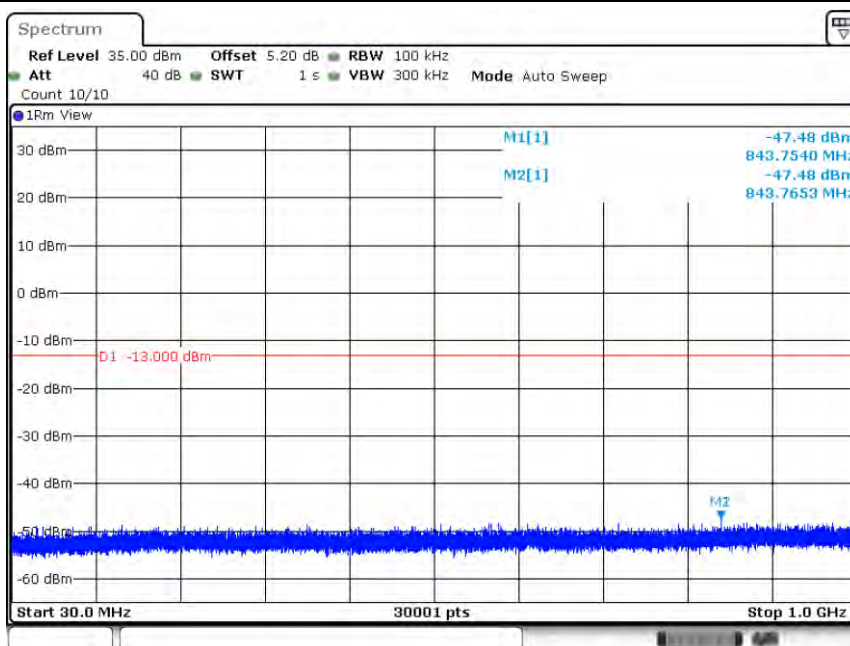
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Band71-20MHz-QPSK-133372-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:05:35

Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



Date: 1.SEP.2020 11:47:21

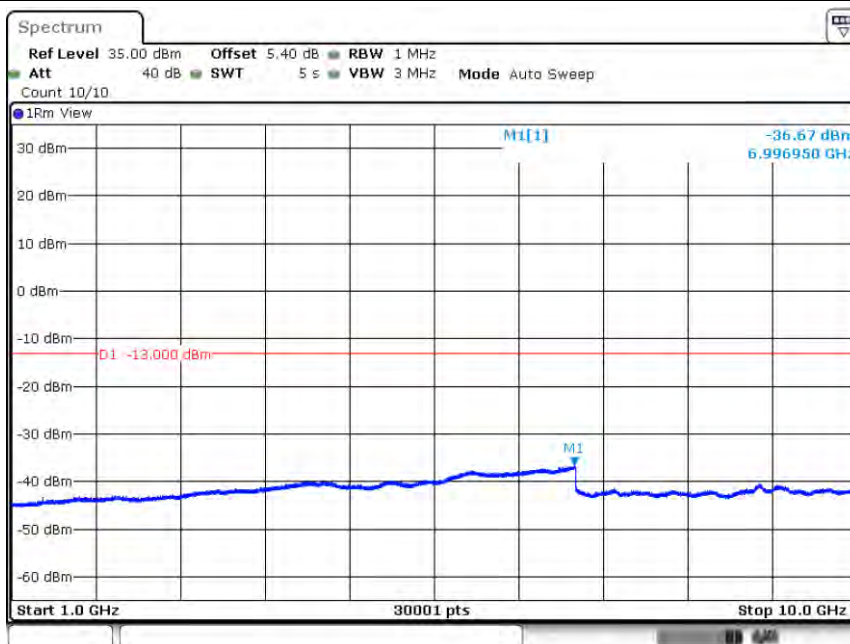


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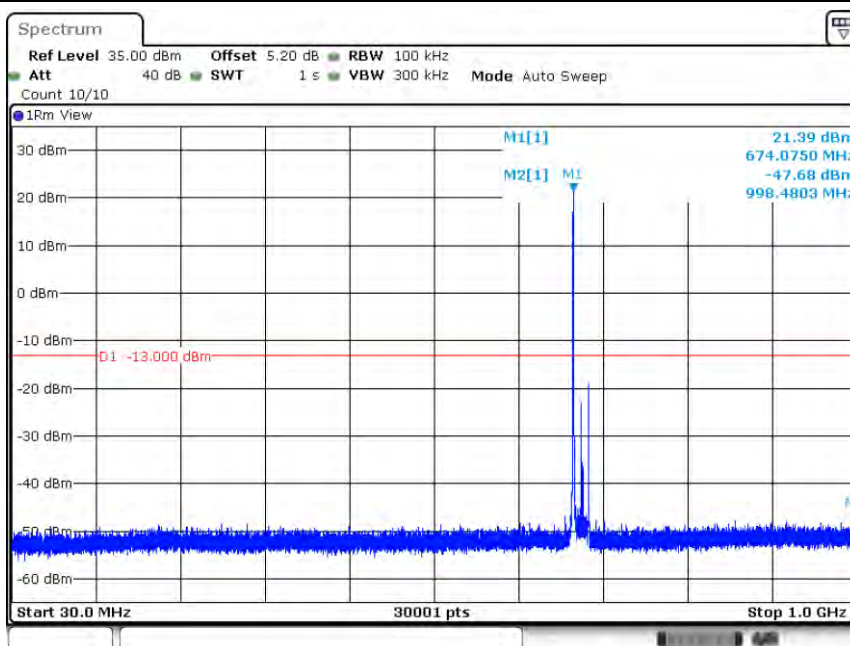


Band71-20MHz-16QAM-133222-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:02:03

Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



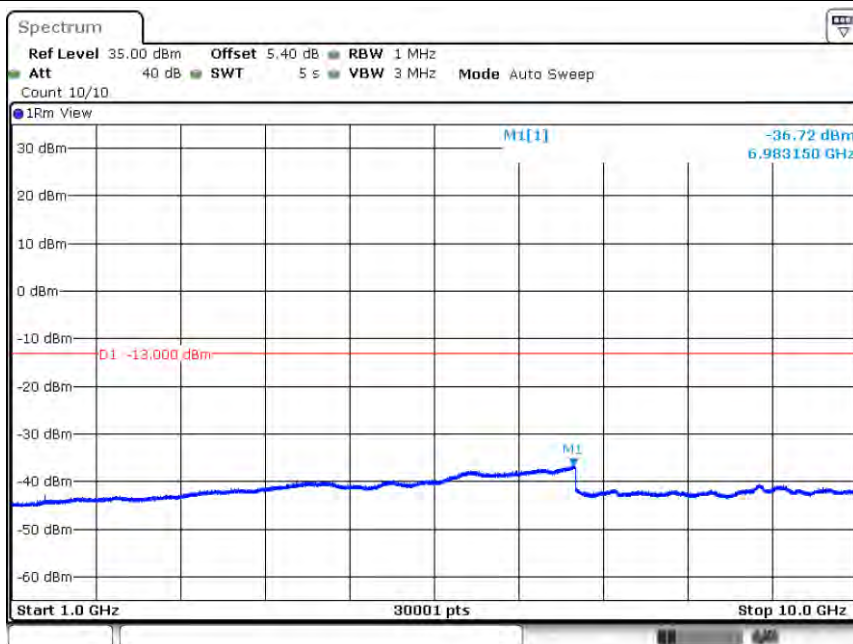
Date: 1.SEP.2020 11:53:08



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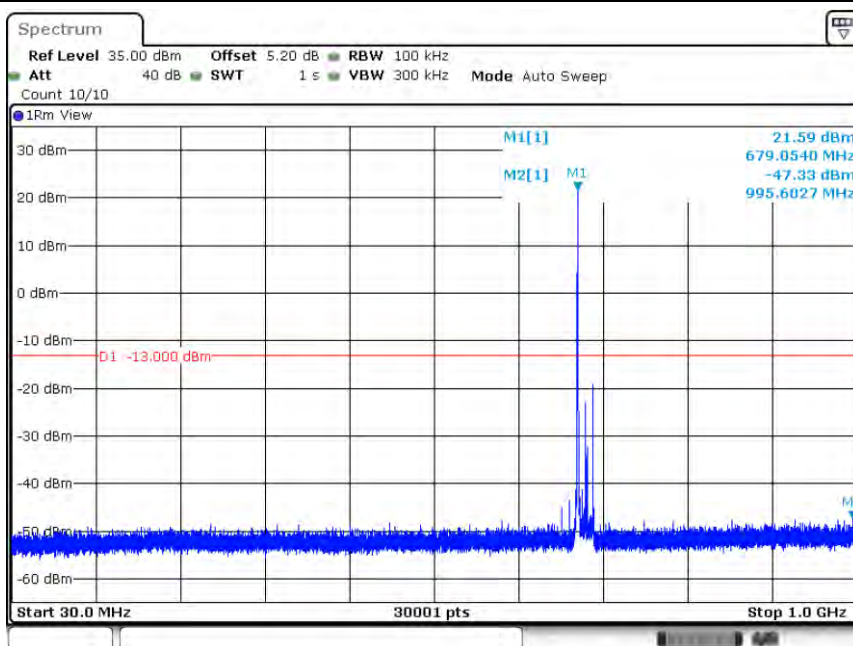
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Band71-20MHz-16QAM-133322-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:04:24

Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz

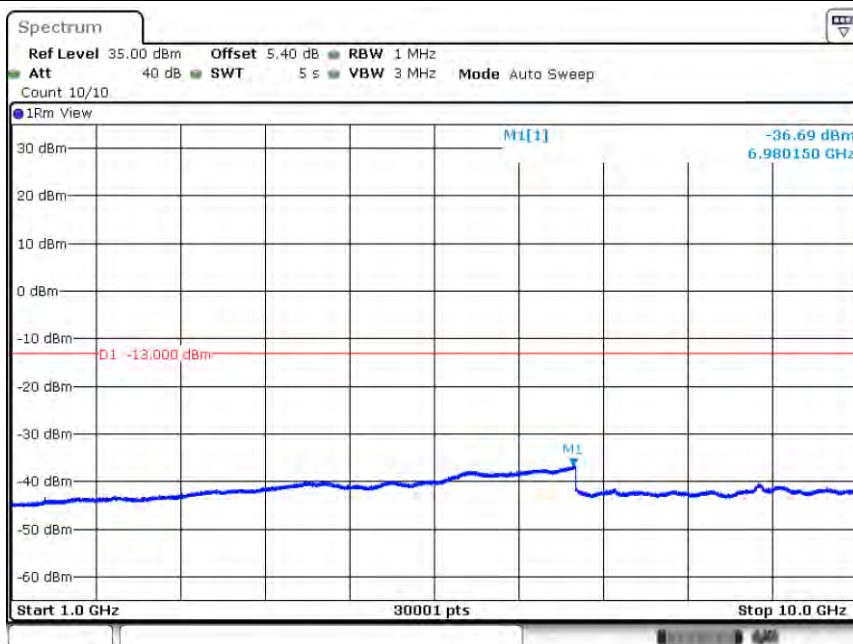


Date: 1.SEP.2020 12:08:13





Band71-20MHz-16QAM-133372-1RB#0-Range1:1000~10000MHz



Date: 1.SEP.2020 22:06:46



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.9117	-71.48	-13.00	58.48	Vertical
109.3500	-64.24	-13.00	51.24	Vertical
1328.0656	-58.49	-13.00	45.49	Vertical
1992.1984	-49.79	-13.00	36.79	Vertical
4648.1459	-60.48	-13.00	47.48	Vertical
9881.8353	-52.10	-13.00	39.10	Vertical
40.2340	-63.96	-13.00	50.96	Horizontal
227.1624	-67.96	-13.00	54.96	Horizontal
1328.0656	-54.13	-13.00	41.13	Horizontal
1992.5985	-43.09	-13.00	30.09	Horizontal
5530.4612	-60.91	-13.00	47.91	Horizontal
9327.6931	-52.23	-13.00	39.23	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-65.32	-13.00	52.32	Vertical
420.5900	-67.99	-13.00	54.99	Vertical
1342.8686	-57.19	-13.00	44.19	Vertical
2014.6029	-49.26	-13.00	36.26	Vertical
4701.0680	-56.32	-13.00	43.32	Vertical
9892.1957	-52.16	-13.00	39.16	Vertical
43.9202	-64.69	-13.00	51.69	Horizontal
236.9113	-68.40	-13.00	55.40	Horizontal
1342.8686	-55.20	-13.00	42.20	Horizontal
2015.0030	-42.91	-13.00	29.91	Horizontal
3357.8543	-58.38	-13.00	45.38	Horizontal
9322.9329	-52.75	-13.00	39.75	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.2230	-64.80	-13.00	51.80	Vertical
400.6070	-67.85	-13.00	54.85	Vertical
1358.0716	-59.53	-13.00	46.53	Vertical
2037.4075	-44.79	-13.00	31.79	Vertical
3395.0958	-57.87	-13.00	44.87	Vertical
4753.7101	-57.92	-13.00	44.92	Vertical
44.3082	-64.15	-13.00	51.15	Horizontal
238.0269	-68.49	-13.00	55.49	Horizontal
1358.0716	-60.15	-13.00	47.15	Horizontal
2037.4075	-38.88	-13.00	25.88	Horizontal
3395.3758	-53.40	-13.00	40.40	Horizontal
9300.5320	-52.40	-13.00	39.40	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	-1.40	-0.002080	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-0.10	-0.000146	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.60	0.000878	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-1.70	-0.002471	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-0.60	-0.000872	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	-0.30	-0.000446	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-2.10	-0.003120	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-2.40	-0.003514	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-2.30	-0.003367	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-2.40	-0.003488	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-0.50	-0.000727	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	-0.30	-0.000446	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-1.20	-0.001783	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-1.80	-0.002675	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-1.40	-0.002080	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-1.80	-0.002675	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-0.90	-0.001337	±2.5	PASS



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Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.40	-0.002050	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.50	-0.002196	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-0.30	-0.000439	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-2.20	-0.003221	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.50	-0.002196	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-2.70	-0.003953	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.30	-0.001903	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.70	-0.002471	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-0.60	-0.000872	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-0.10	-0.000145	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-0.50	-0.000727	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-0.80	-0.001163	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-10	-0.20	-0.000297	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	0.20	0.000297	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-0.50	-0.000743	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-2.30	-0.003418	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-1.20	-0.001783	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-3.00	-0.004392	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-10	-1.00	-0.001464	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-2.20	-0.003221	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-0.40	-0.000586	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-2.50	-0.003634	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	-1.90	-0.002762	±2.5	PASS



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Band71	20MHz	16QAM	133372	100RB#0	NV	-10	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-0.80	-0.001163	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-1.80	-0.002616	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-0.50	-0.000727	±2.5	PASS



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