

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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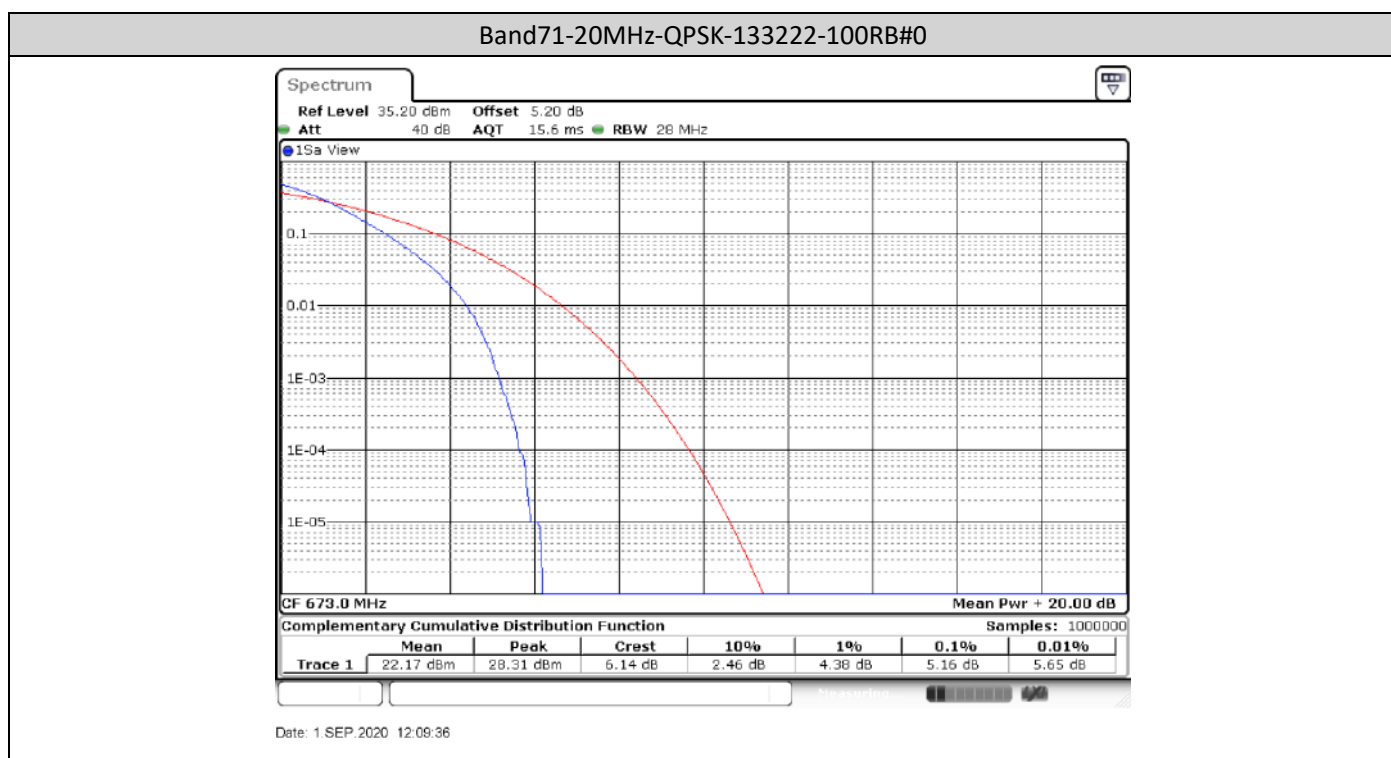


2. Peak-to-Average Ratio (CCDF)

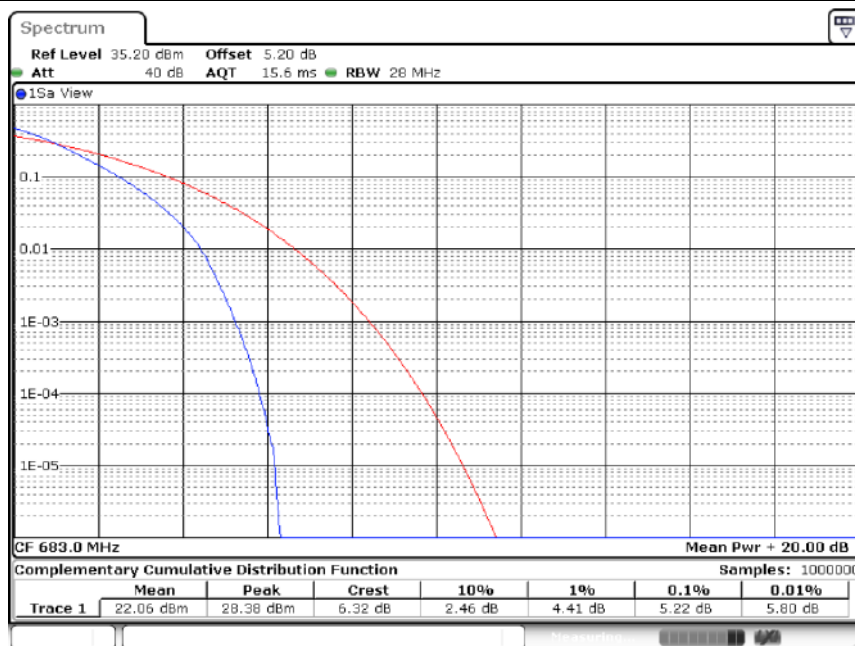
2.1. Test Result

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

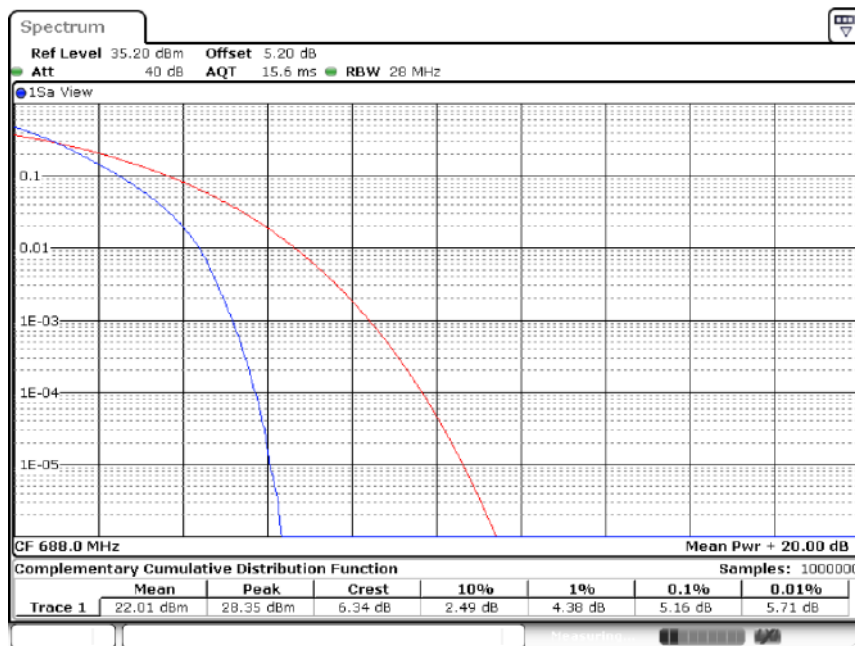


Band71-20MHz-QPSK-133322-100RB#0



Date: 1 SEP 2020 12:09:58

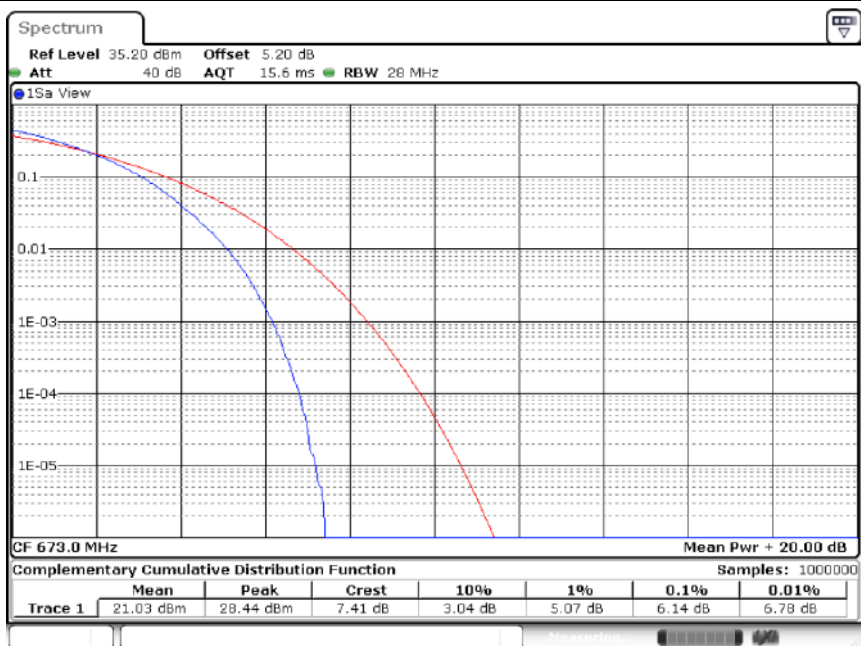
Band71-20MHz-QPSK-133372-100RB#0



Date: 1 SEP 2020 12:10:21

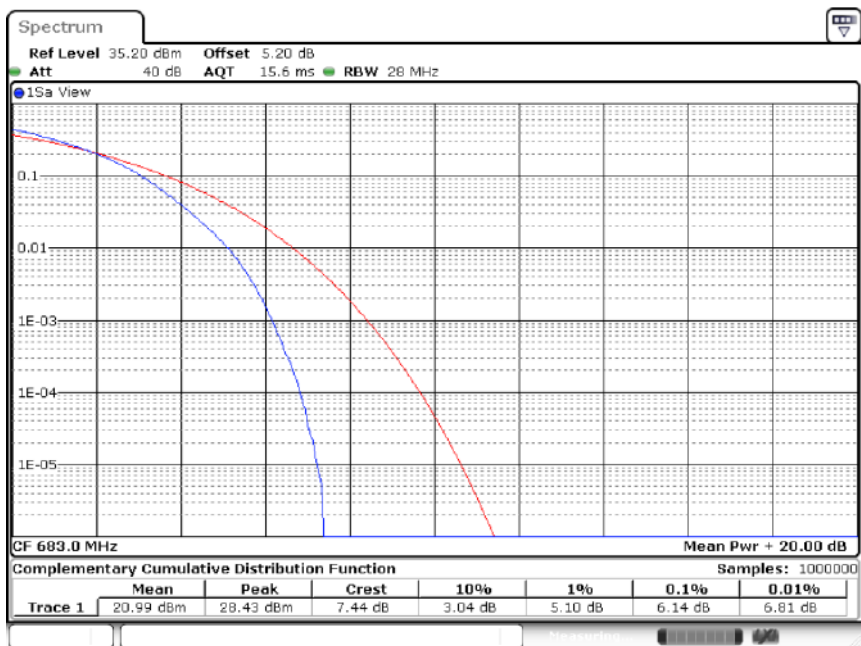


Band71-20MHz-16QAM-133222-100RB#0



Date: 1 SEP 2020 12:08:47

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



Date: 1 SEP 2020 12:10:09



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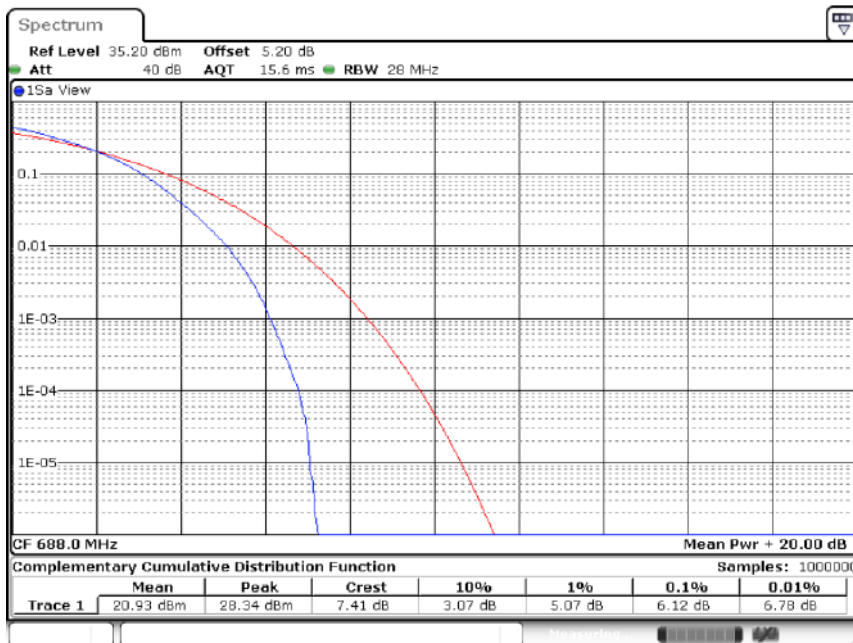
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Band71-20MHz-16QAM-133372-100RB#0



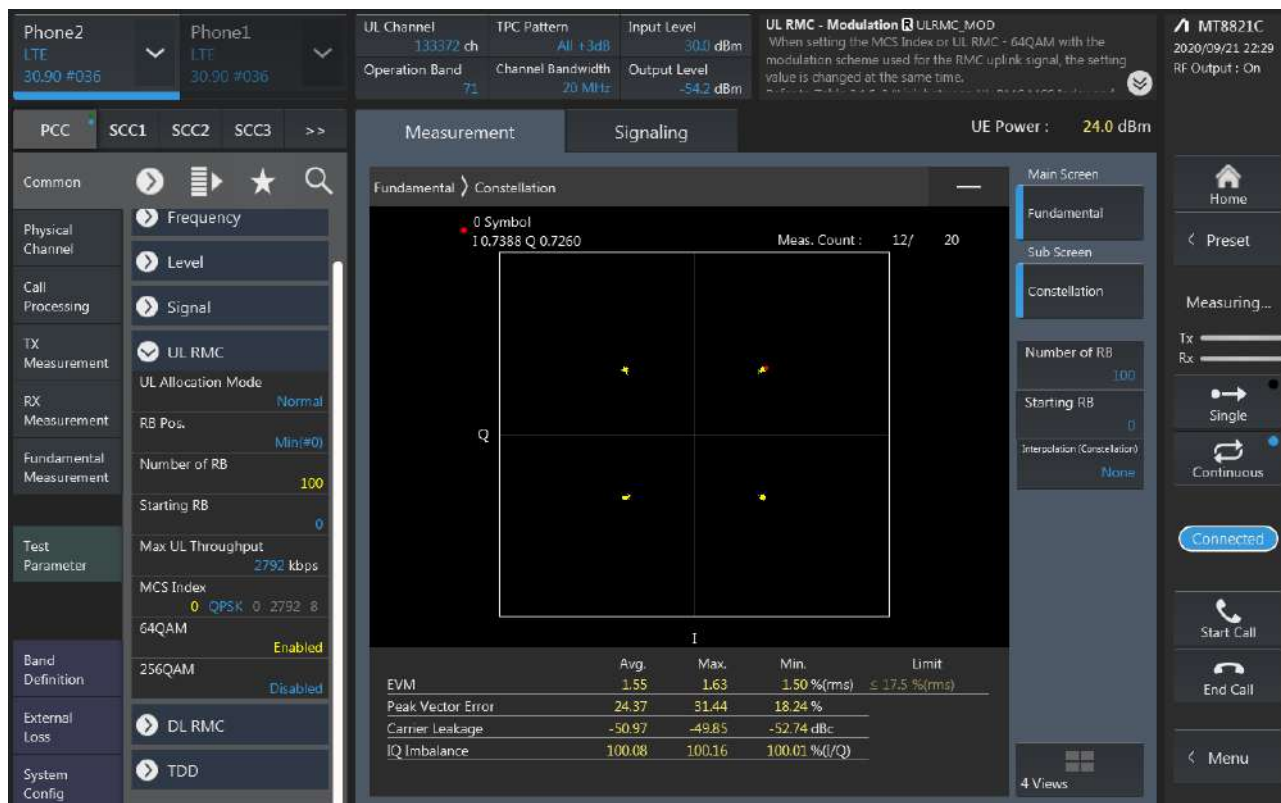
Date: 1.SEP.2020 12:10:32



3. Modulation Characteristics

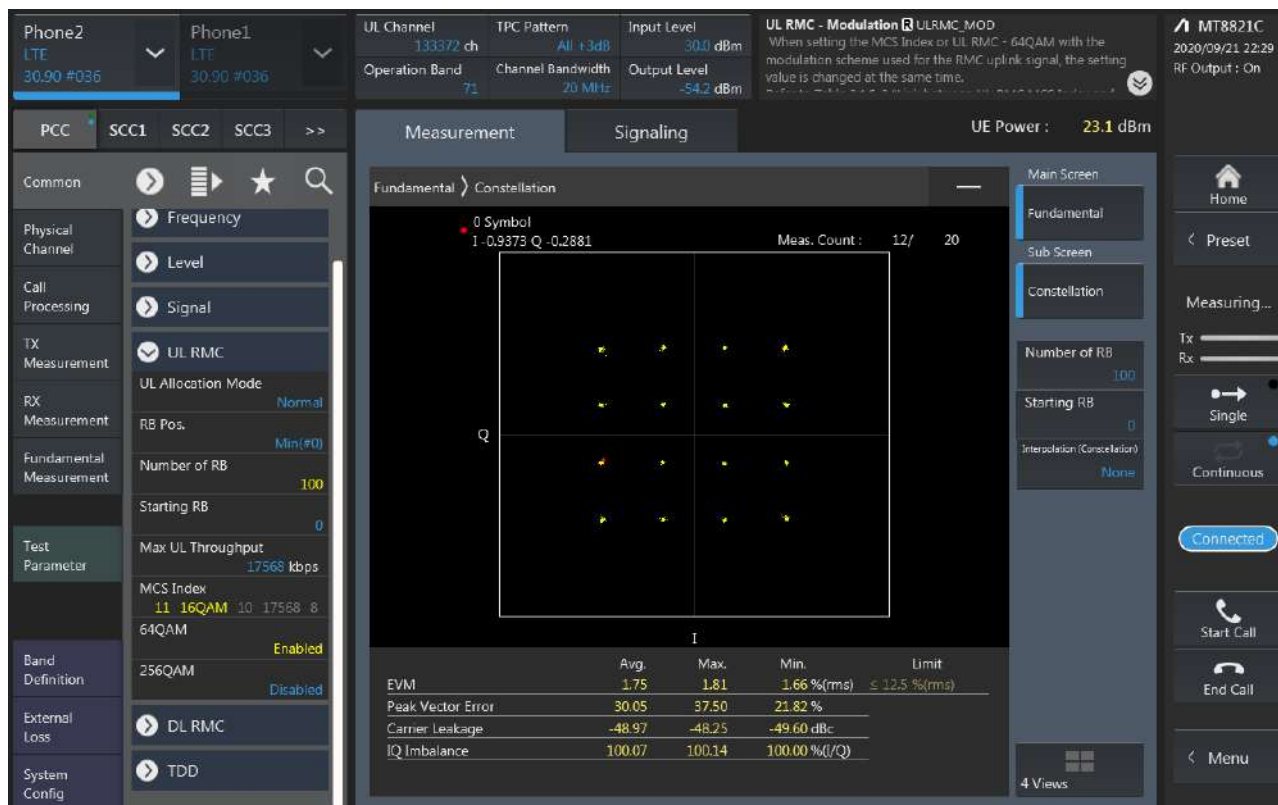
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



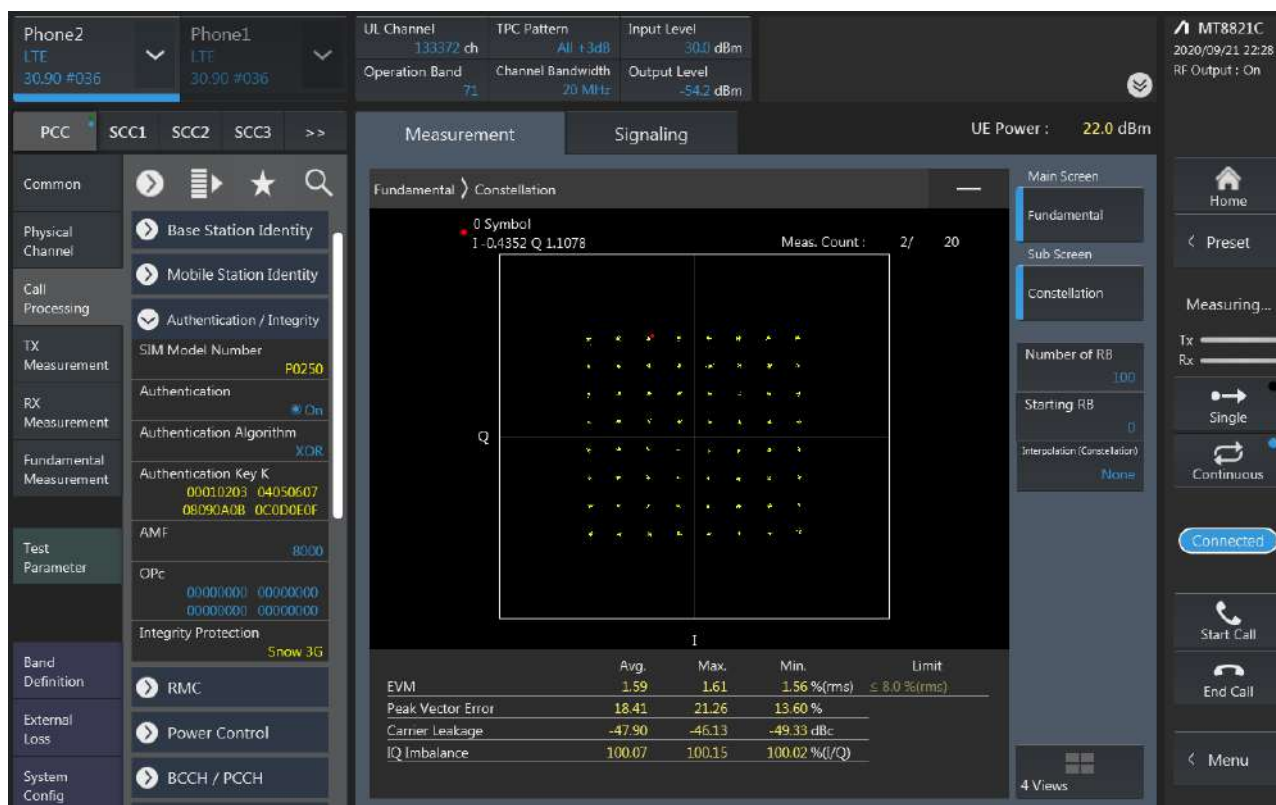
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





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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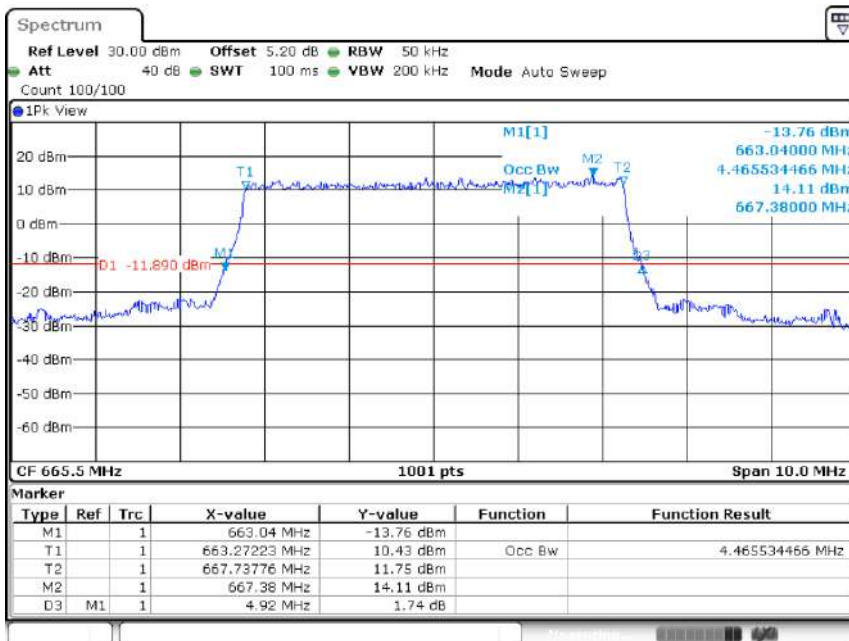
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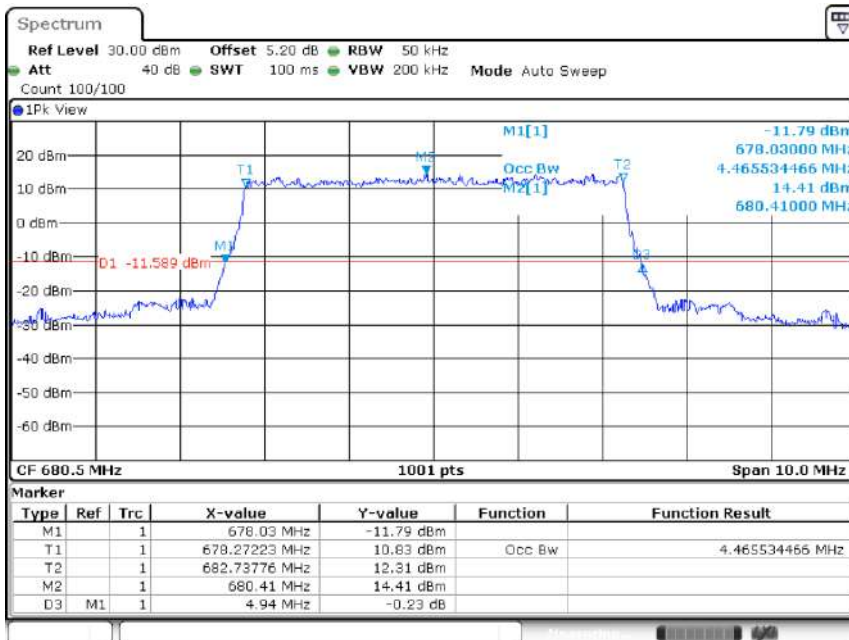
4.2. Test Plots

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



Date: 1 SEP. 2020 11:08:59

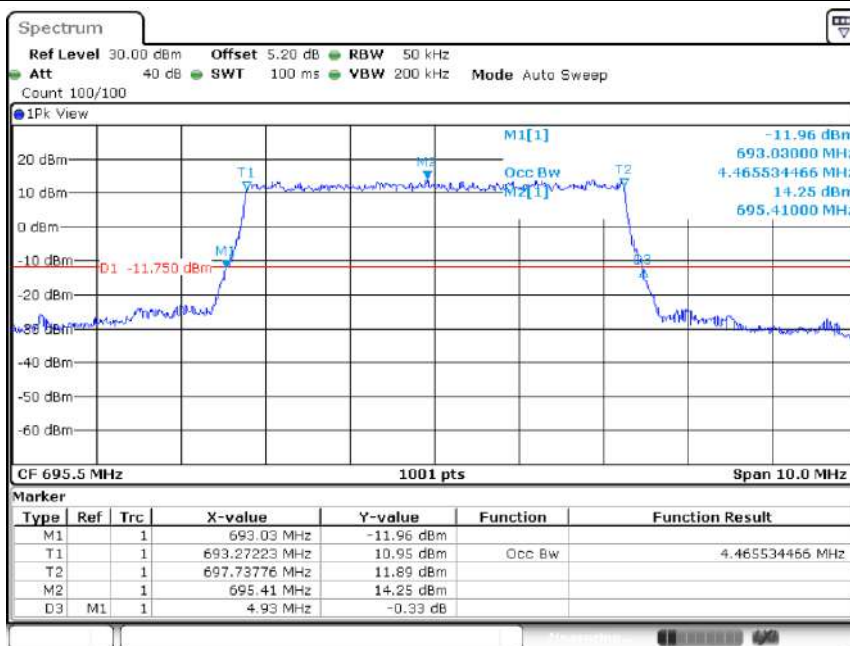
Band71-5MHz-QPSK-133297-25RB#0-4.466



Date: 1 SEP. 2020 11:09:38

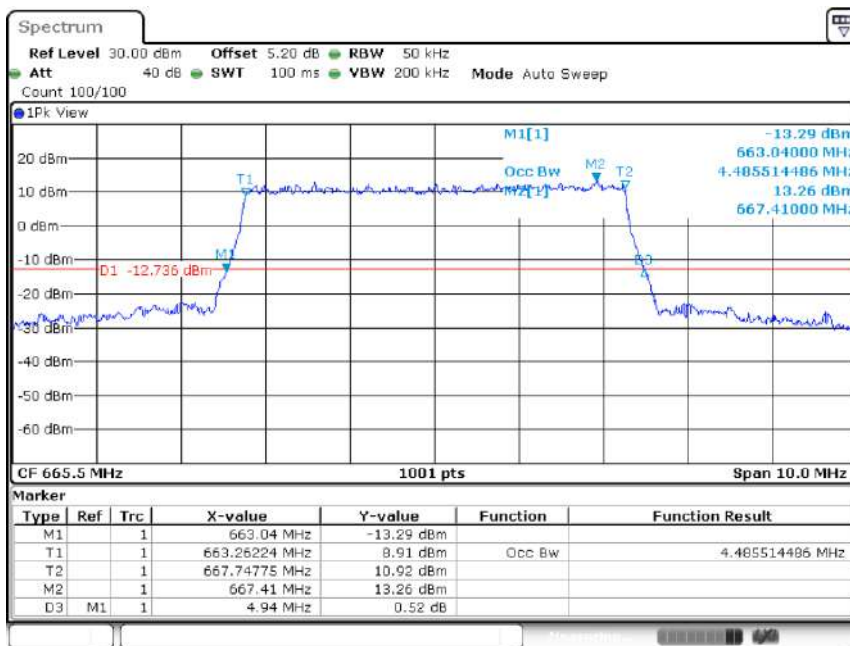


Band71-5MHz-QPSK-133447-25RB#0-4.466



Date: 1 SEP. 2020 11:10:18

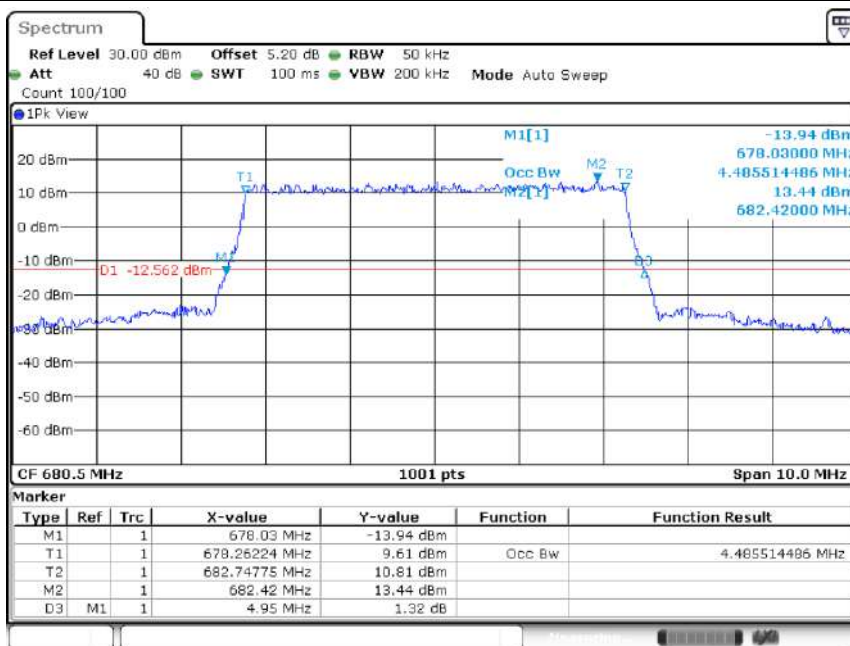
Band71-5MHz-16QAM-133147-25RB#0-4.486



Date: 1 SEP. 2020 11:09:18

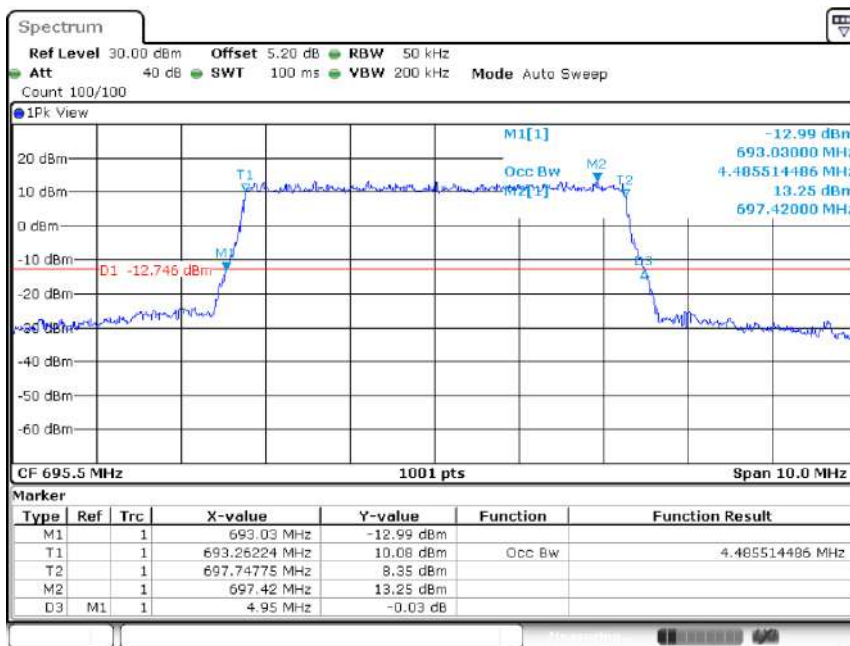


Band71-5MHz-16QAM-133297-25RB#0-4.486



Date: 1 SEP. 2020 11:09:58

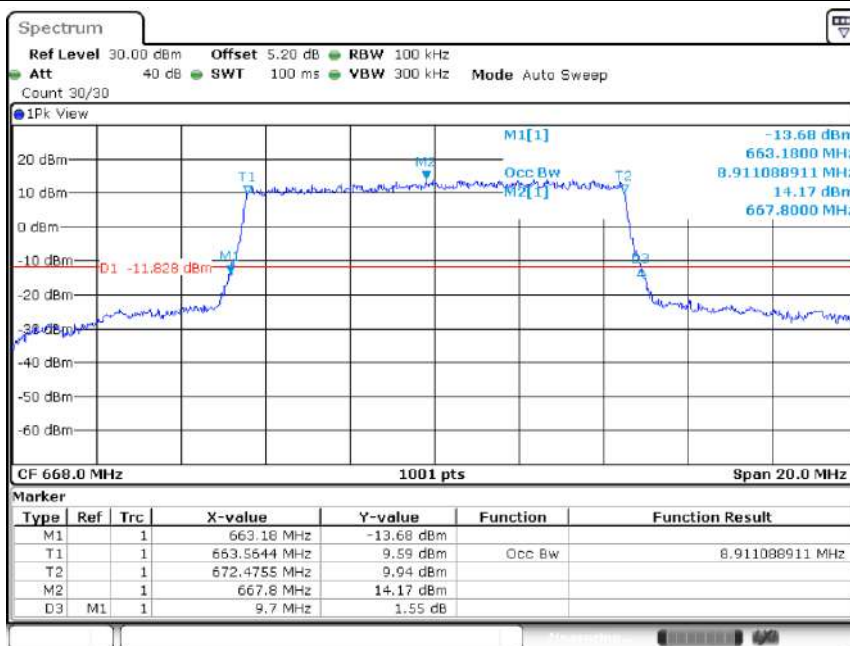
Band71-5MHz-16QAM-133447-25RB#0-4.486



Date: 1 SEP. 2020 11:10:38

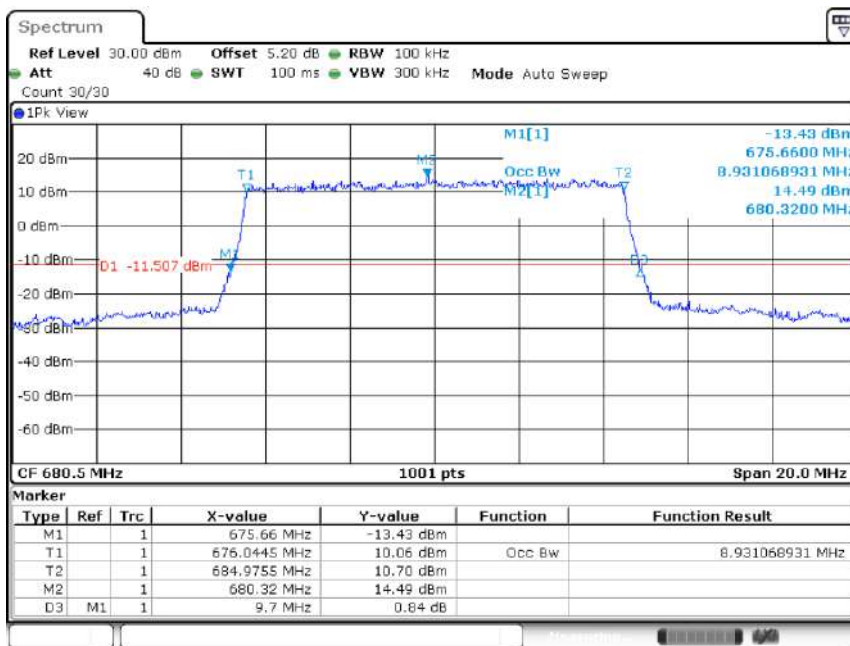


Band71-10MHz-QPSK-133172-50RB#0-8.911



Date: 1 SEP. 2020 11:27:05

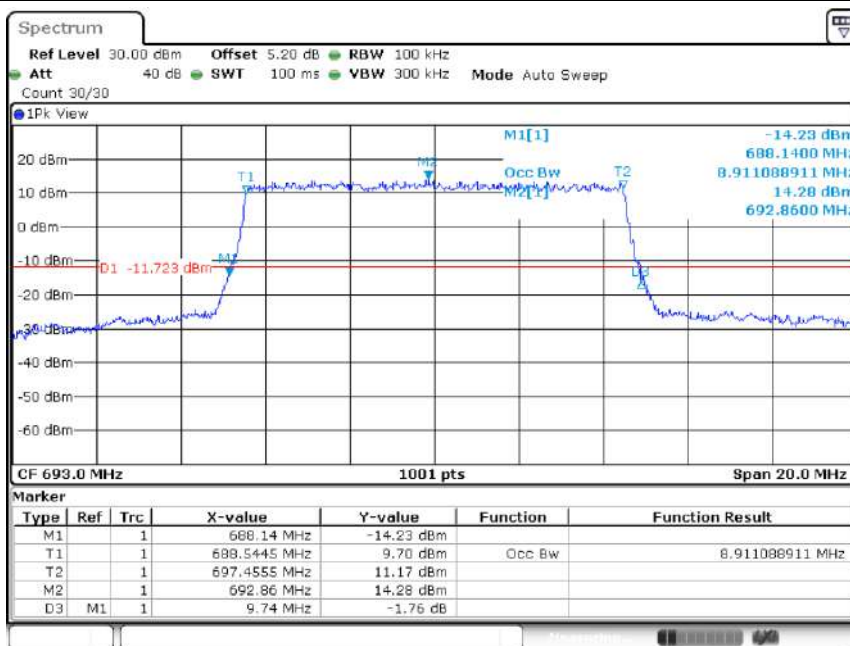
Band71-10MHz-QPSK-133297-50RB#0-8.931



Date: 1 SEP. 2020 11:27:30

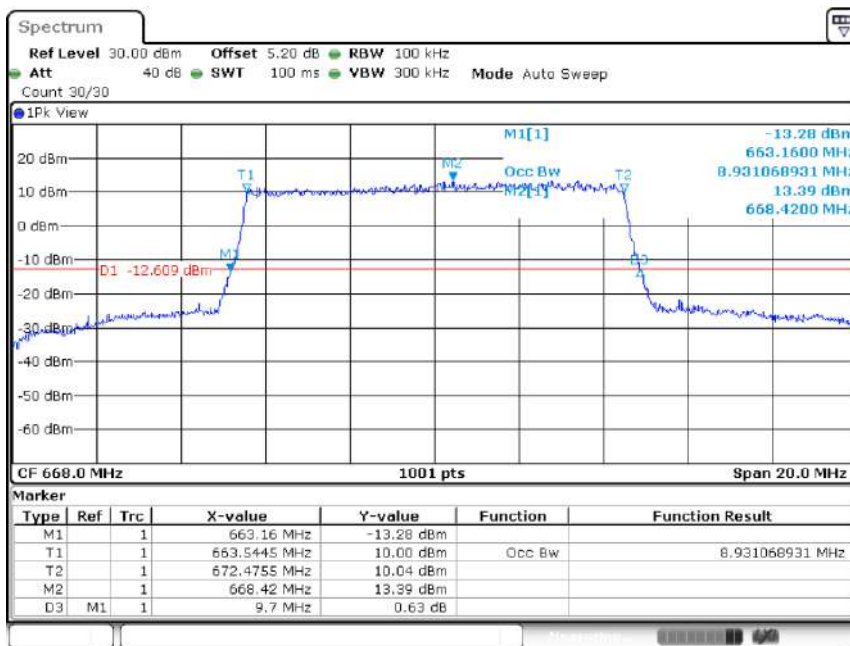


Band71-10MHz-QPSK-133422-50RB#0-8.911



Date: 1 SEP. 2020 11:27:56

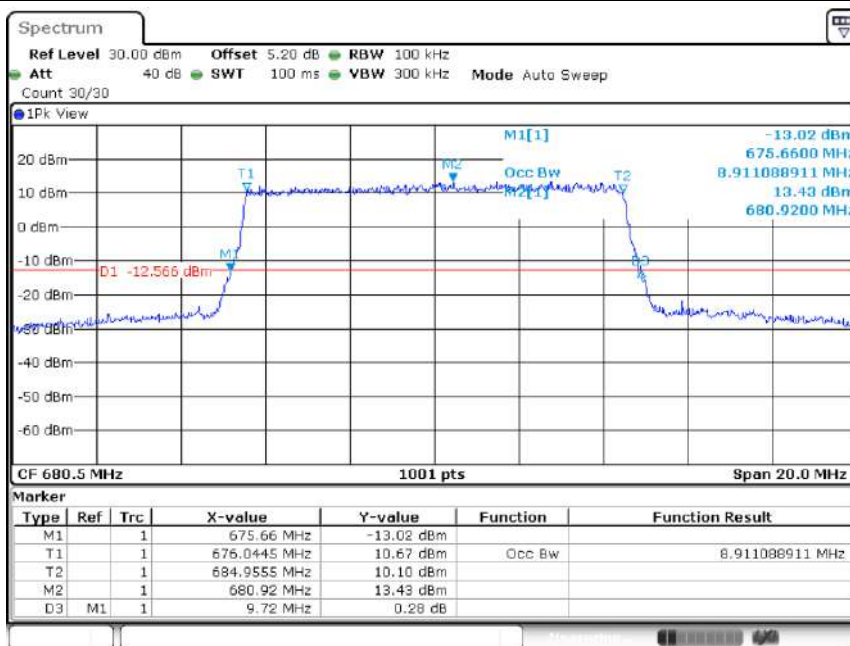
Band71-10MHz-16QAM-133172-50RB#0-8.931



Date: 1 SEP. 2020 11:27:18

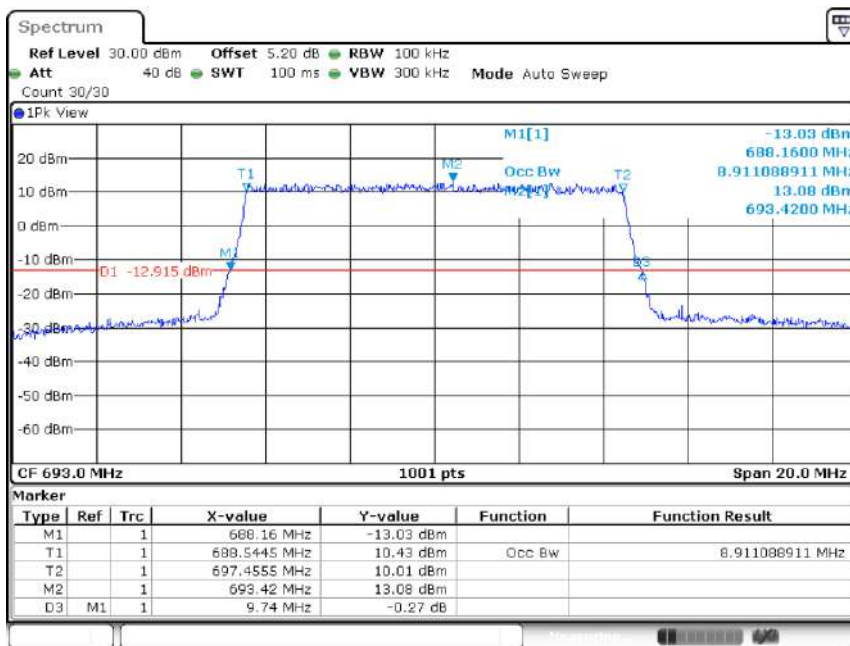


Band71-10MHz-16QAM-133297-50RB#0-8.911



Date: 1 SEP. 2020 11:27:43

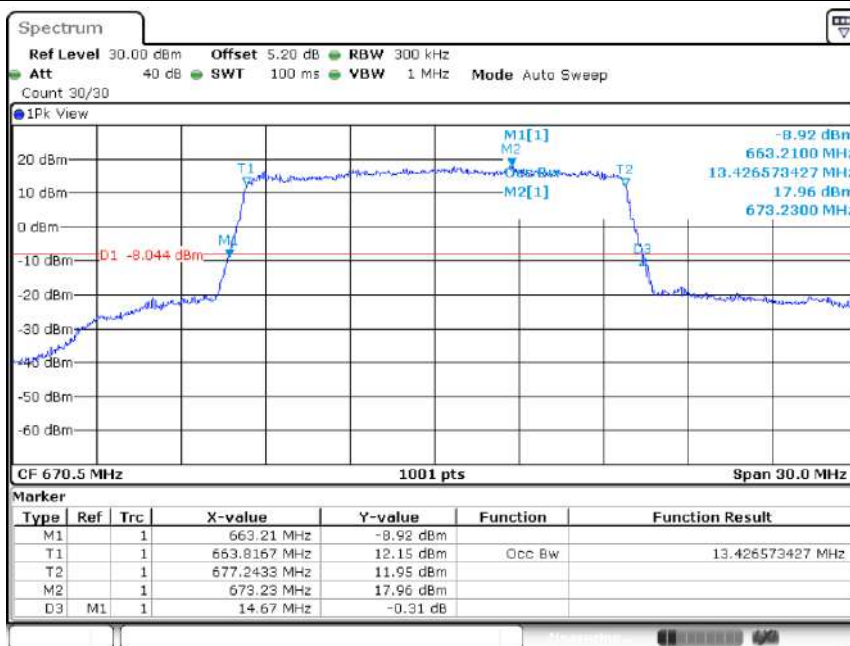
Band71-10MHz-16QAM-133422-50RB#0-8.911



Date: 1 SEP. 2020 11:28:09

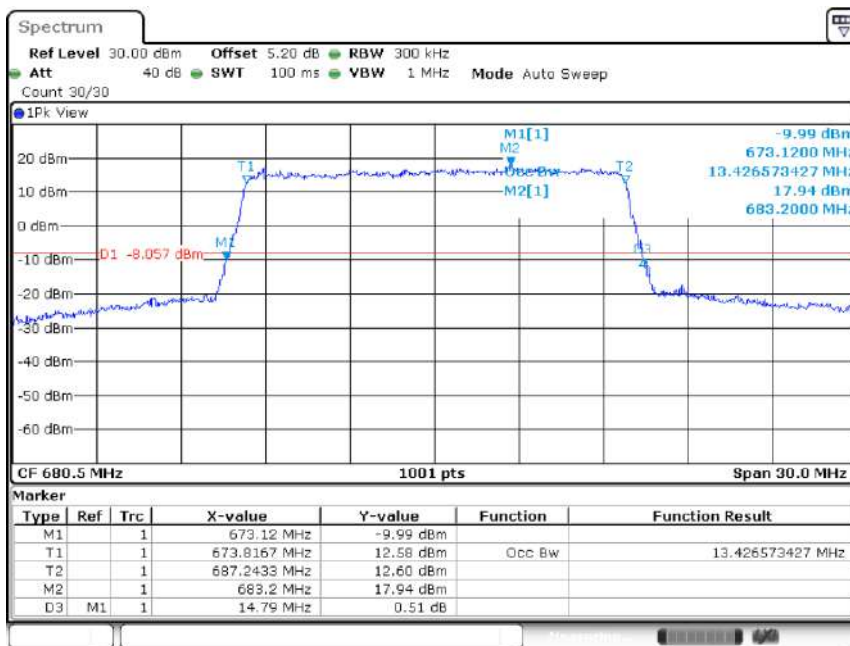


Band71-15MHz-QPSK-133197-75RB#0-13.427



Date: 1 SEP. 2020 11:28:26

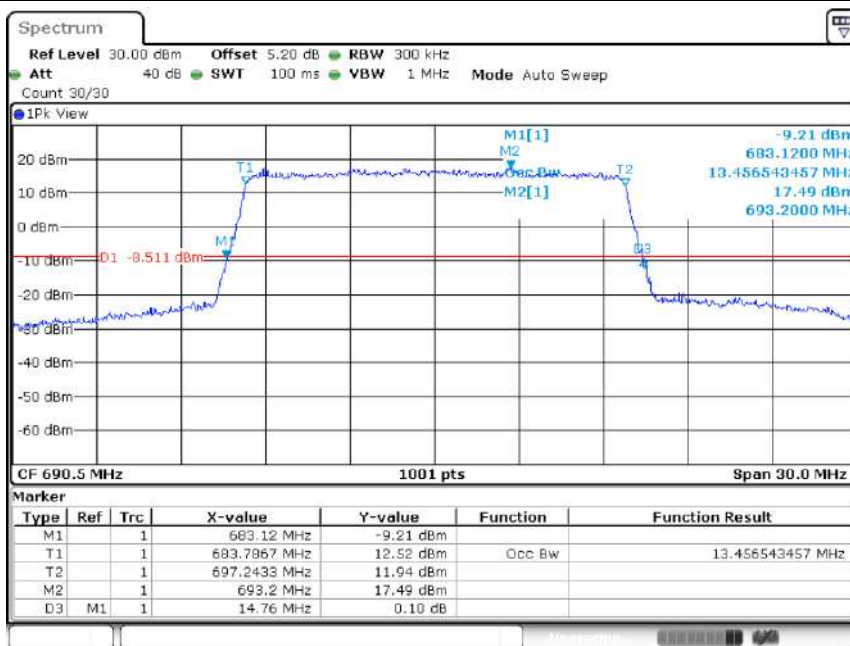
Band71-15MHz-QPSK-133297-75RB#0-13.427



Date: 1 SEP. 2020 11:28:52

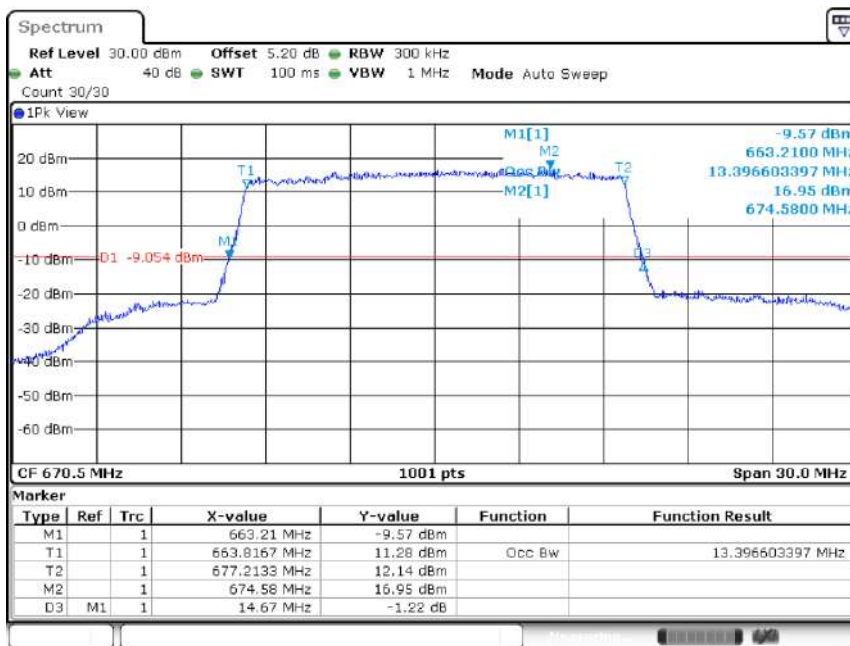


Band71-15MHz-QPSK-133397-75RB#0-13.457



Date: 1 SEP. 2020 11:28:17

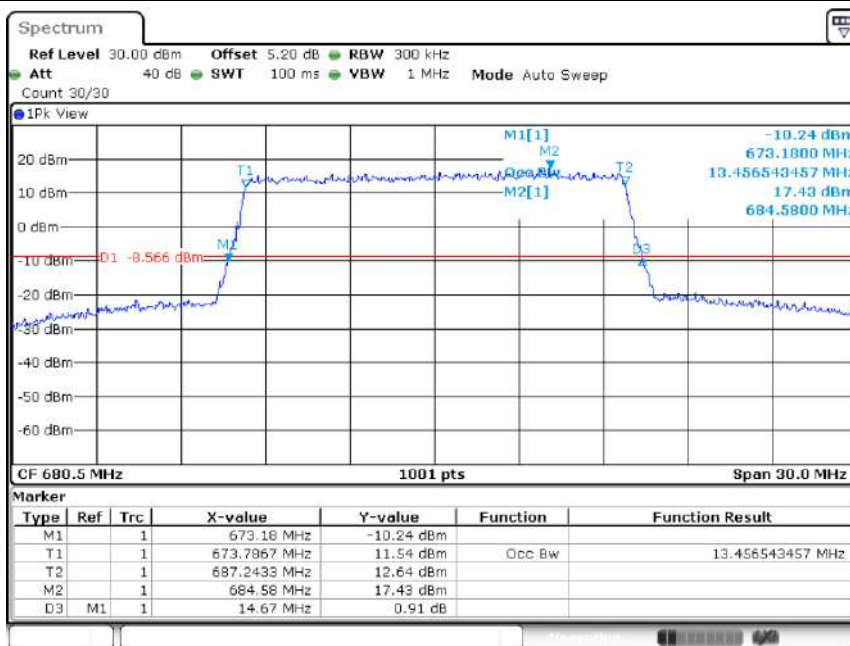
Band71-15MHz-16QAM-133197-75RB#0-13.397



Date: 1 SEP. 2020 11:28:39

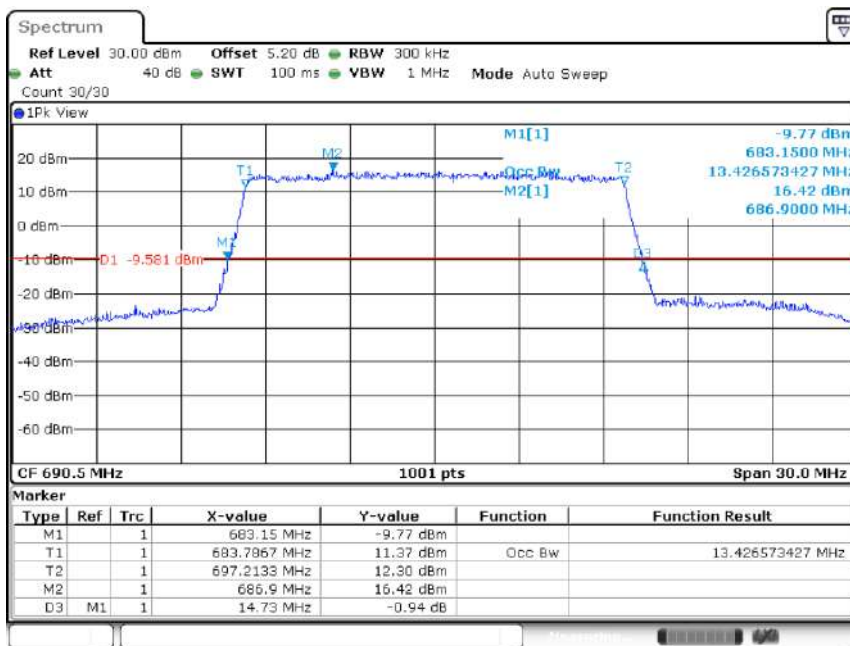


Band71-15MHz-16QAM-133297-75RB#0-13.457



Date: 1 SEP. 2020 11:28:05

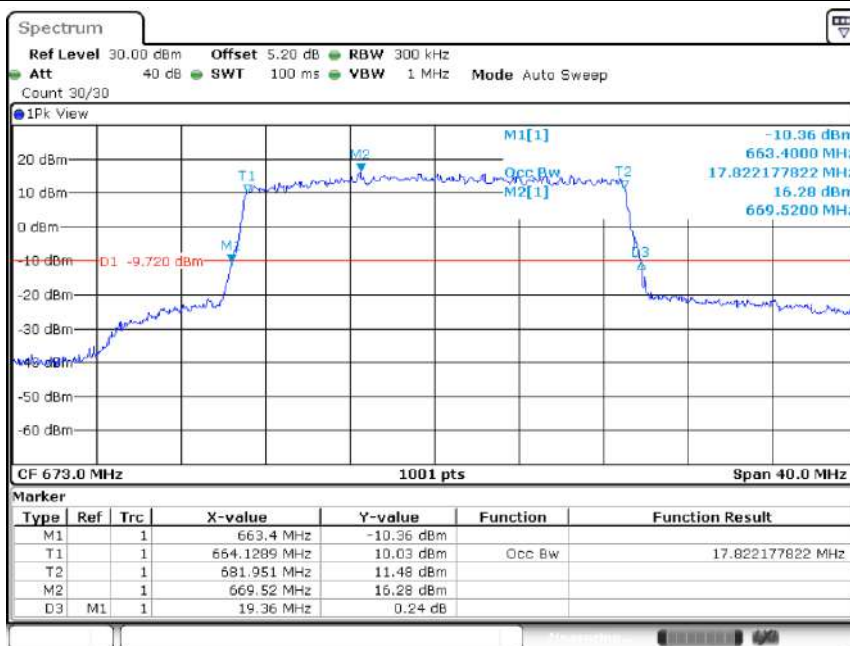
Band71-15MHz-16QAM-133397-75RB#0-13.427



Date: 1 SEP. 2020 11:29:30

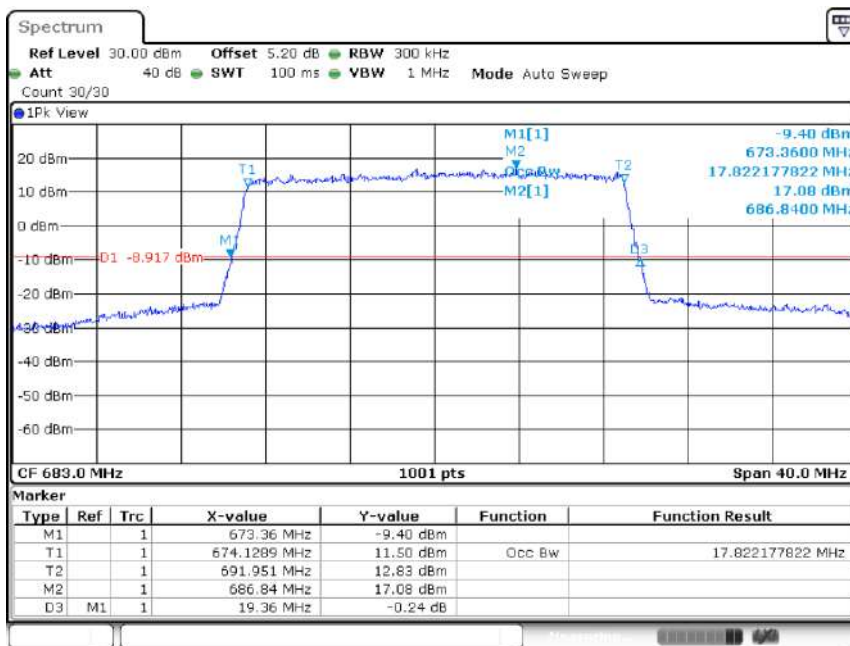


Band71-20MHz-QPSK-133222-100RB#0-17.822



Date: 1 SEP. 2020 11:28:48

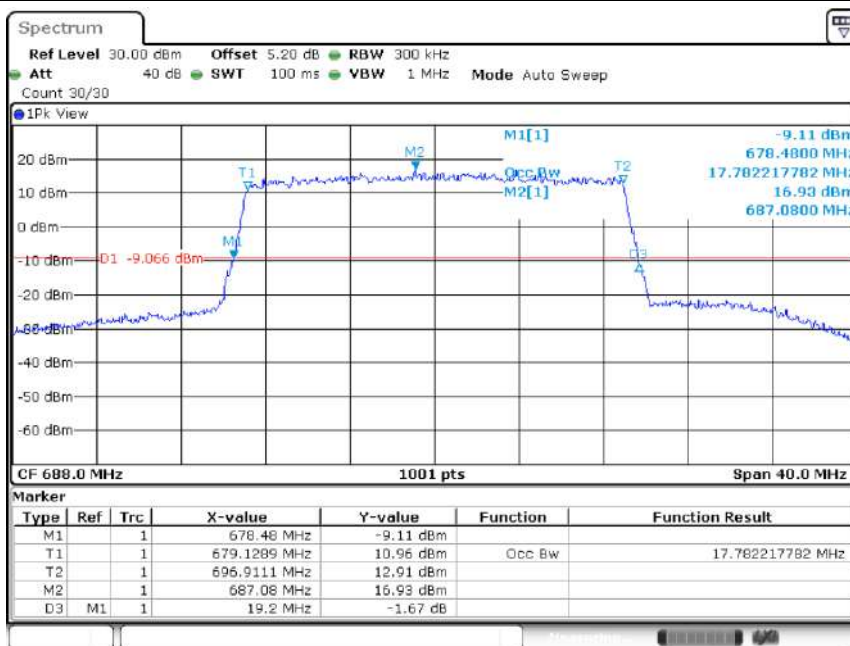
Band71-20MHz-QPSK-133322-100RB#0-17.822



Date: 1 SEP. 2020 11:30:14

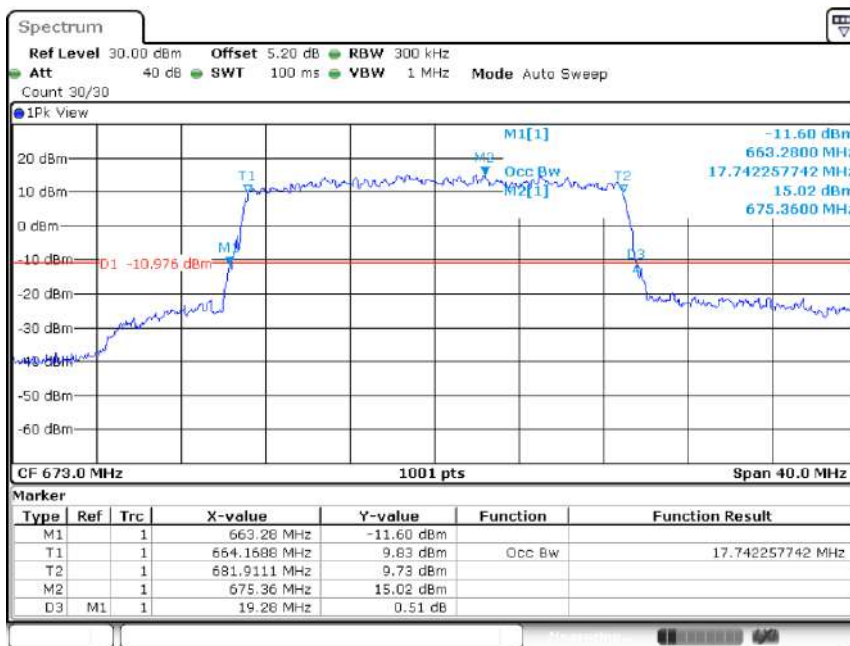


Band71-20MHz-QPSK-133372-100RB#0-17.782



Date: 1 SEP. 2020 11:30:39

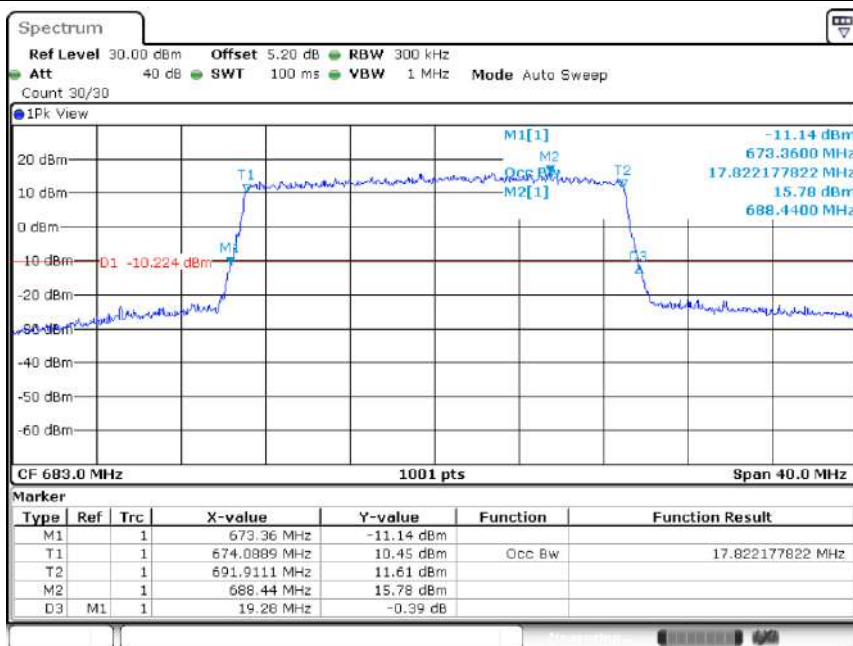
Band71-20MHz-16QAM-133222-100RB#0-17.742



Date: 1 SEP. 2020 11:30:01

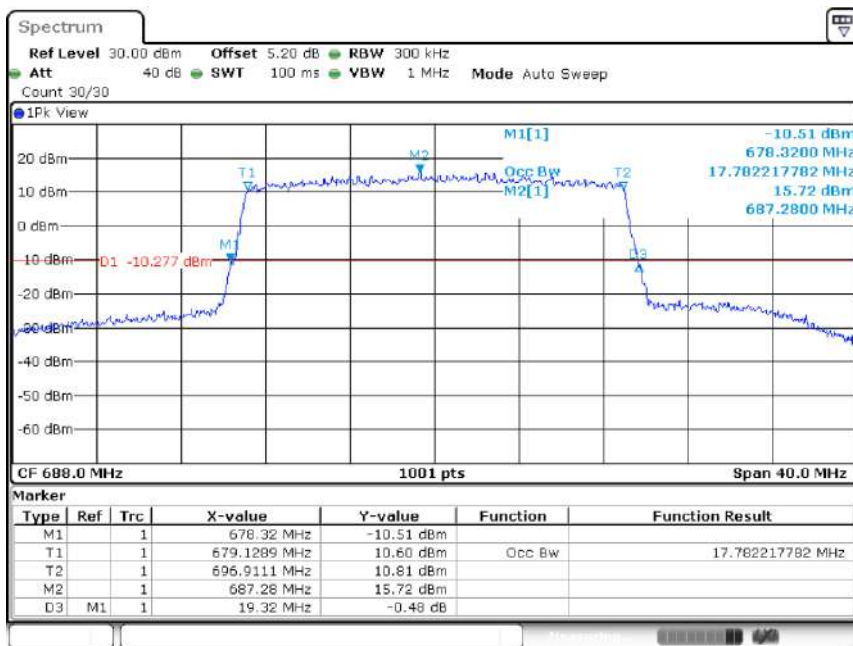


Band71-20MHz-16QAM-133322-100RB#0-17.822



Date: 1 SEP. 2020 11:30:26

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



Date: 1 SEP. 2020 11:30:52





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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Band71-5MHz-QPSK-133447-1RB#24



Date: 1 SEP. 2020 11:32:44

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



Date: 1 SEP. 2020 11:33:25



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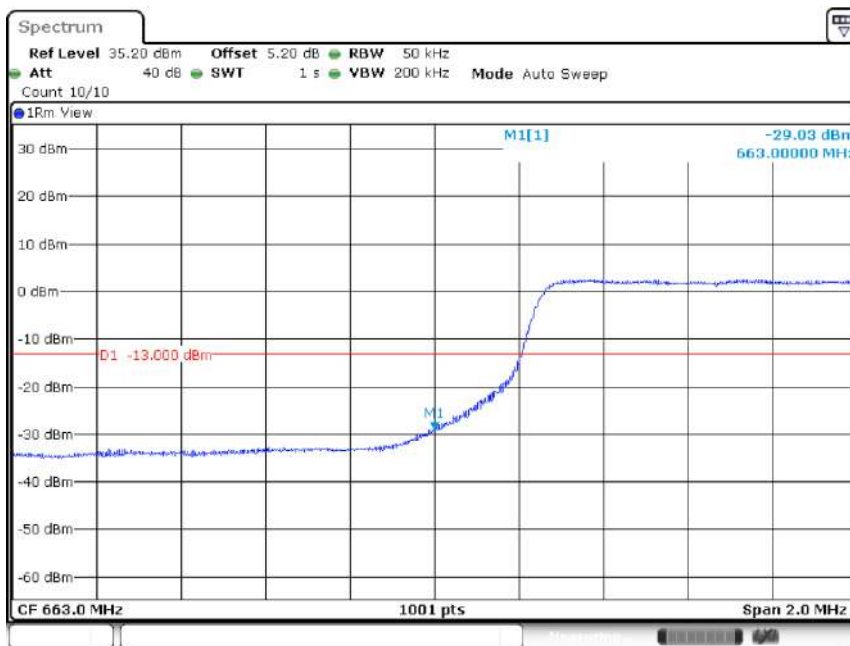
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Band71-5MHz-16QAM-133147-1RB#0



Date: 1 SEP. 2020 11:31:38

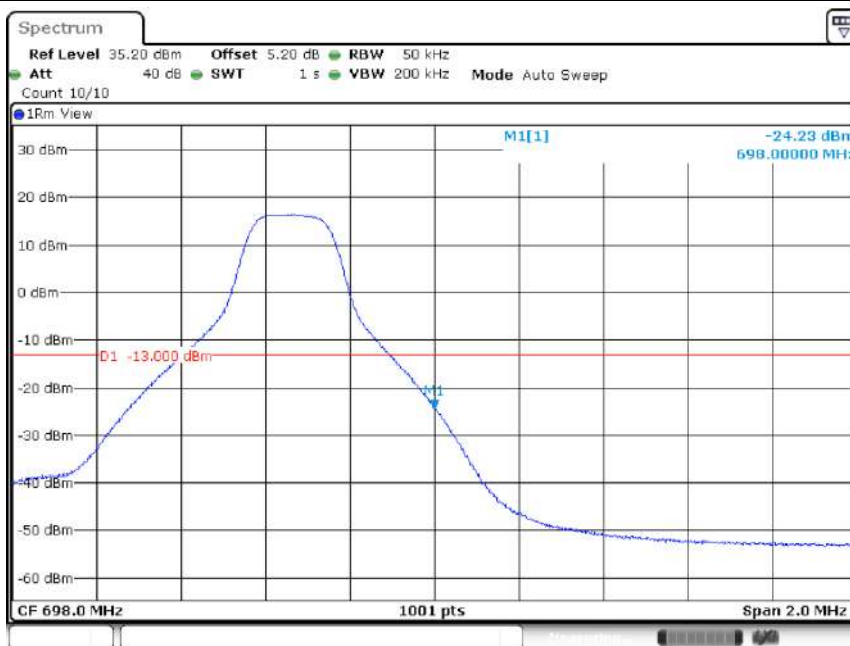
Band71-5MHz-16QAM-133147-25RB#0



Date: 1 SEP. 2020 11:32:19



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



Date: 1 SEP. 2020 11:33:05

Band71-5MHz-16QAM-133447-25RB#0



Date: 1 SEP. 2020 11:33:45



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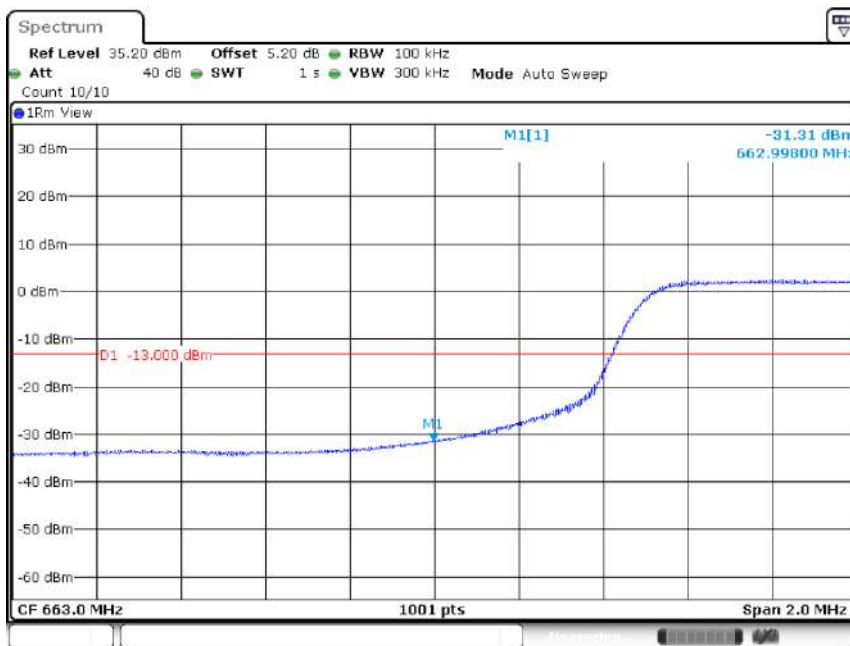
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Band71-10MHz-QPSK-133172-1RB#0



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



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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



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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



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



Date: 1 SEP. 2020 11:39:12



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



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



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



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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



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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

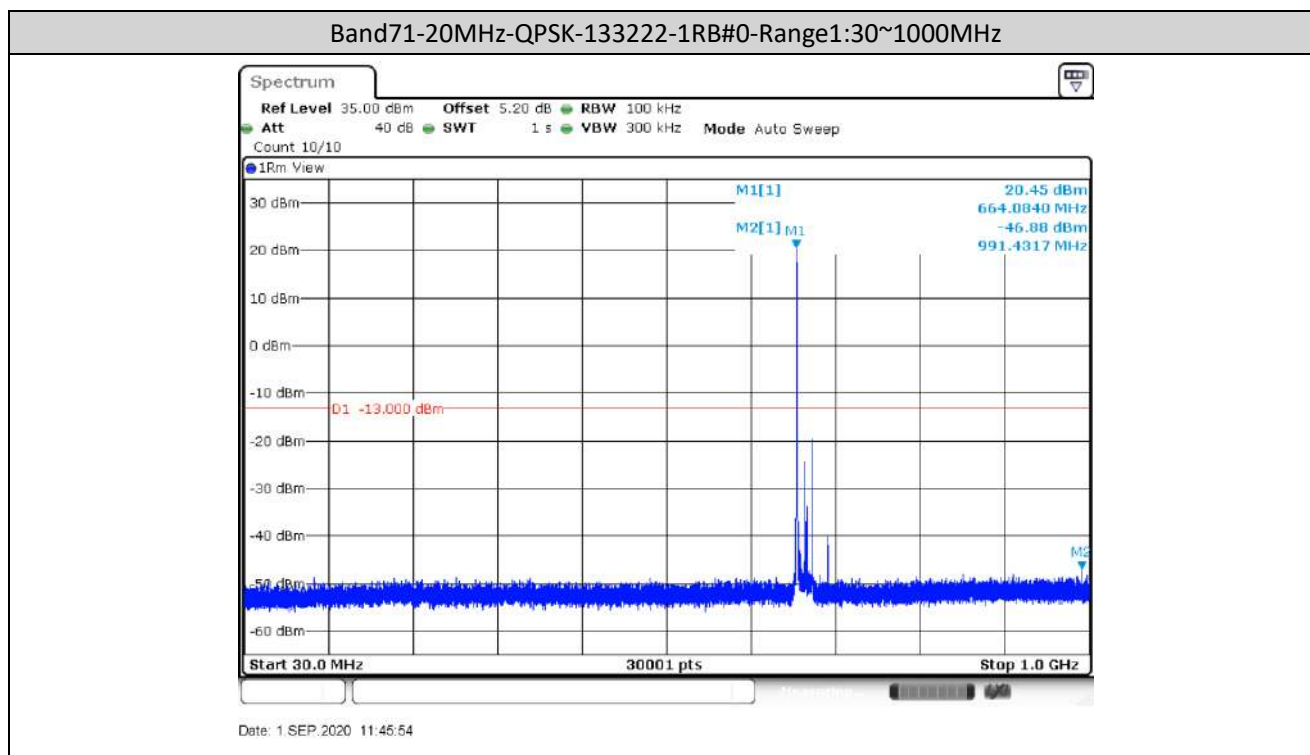


6. Spurious Emission at Antenna Terminal

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

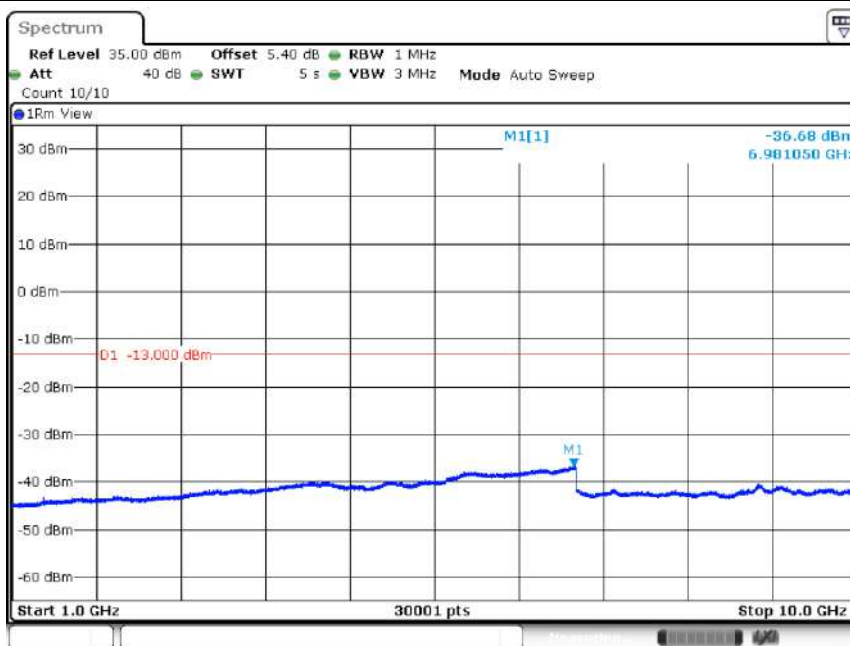


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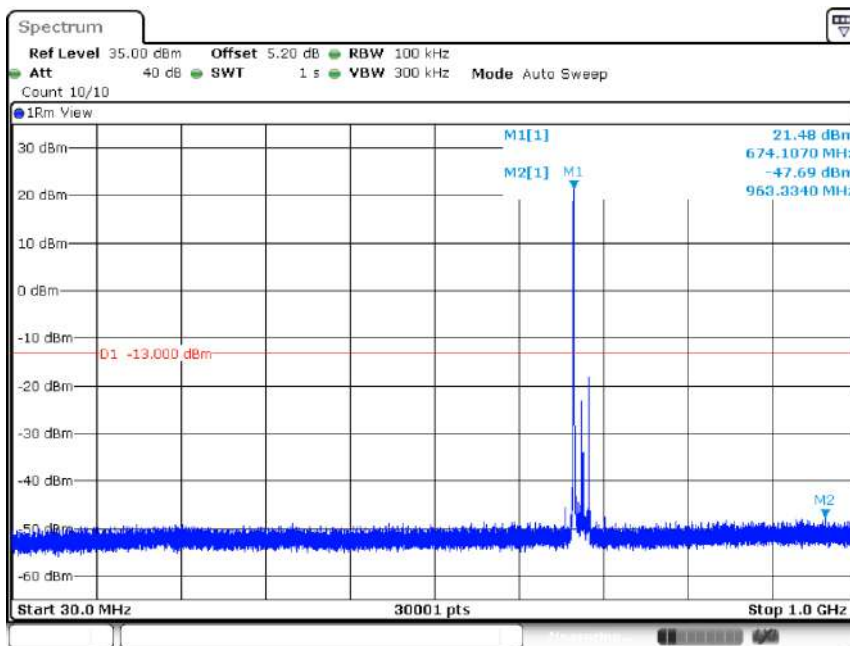
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Band71-20MHz-QPSK-133222-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 22:00:52

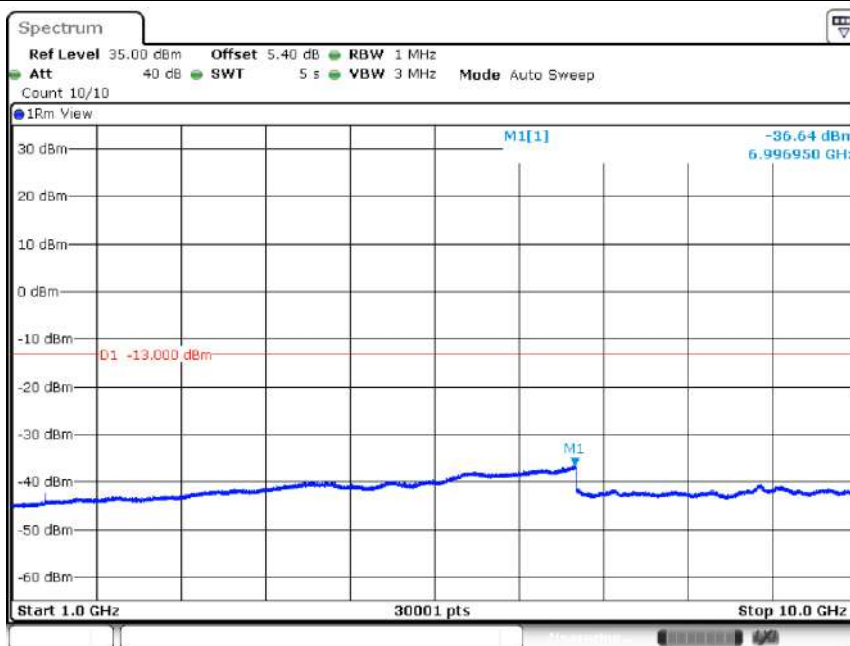
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Date: 1 SEP.2020 11:51:41

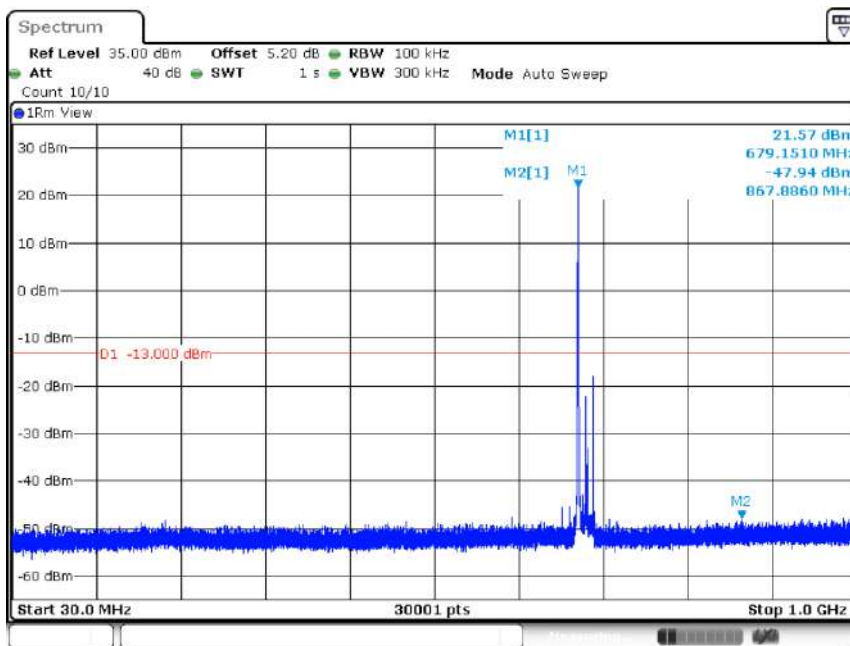


Band71-20MHz-QPSK-133322-1RB#0-Range1:1000~10000MHz



Date: 1 SEP. 2020 22:03:14

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



Date: 1 SEP. 2020 12:06:46

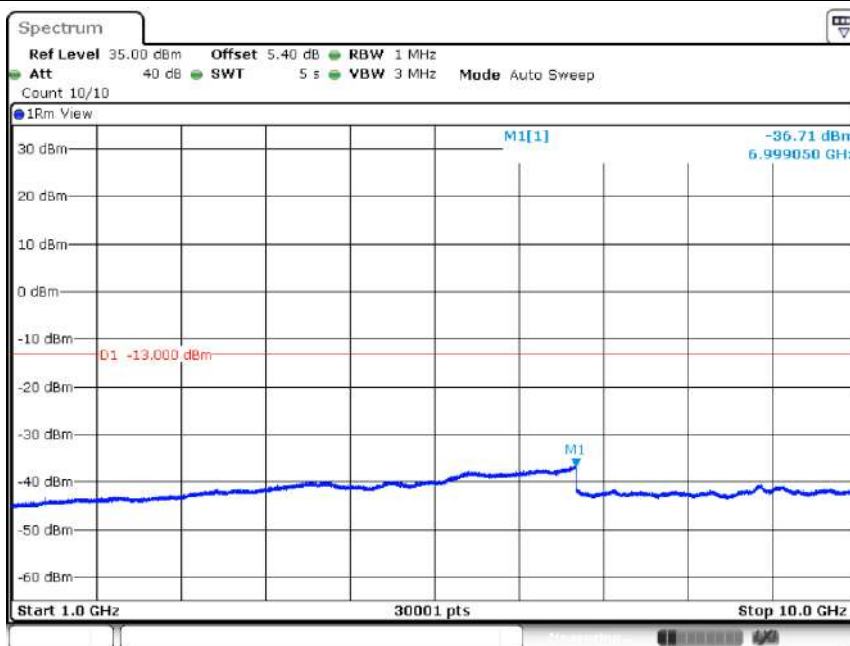
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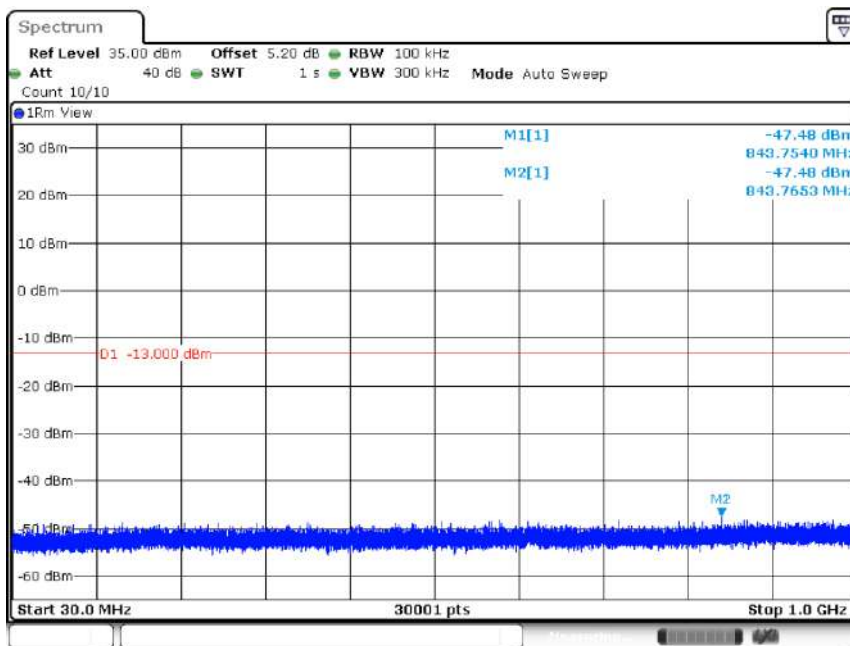
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Band71-20MHz-QPSK-133372-1RB#0-Range1:1000~10000MHz



Date: 1 SEP. 2020 22:05:35

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



Date: 1 SEP. 2020 11:47:21

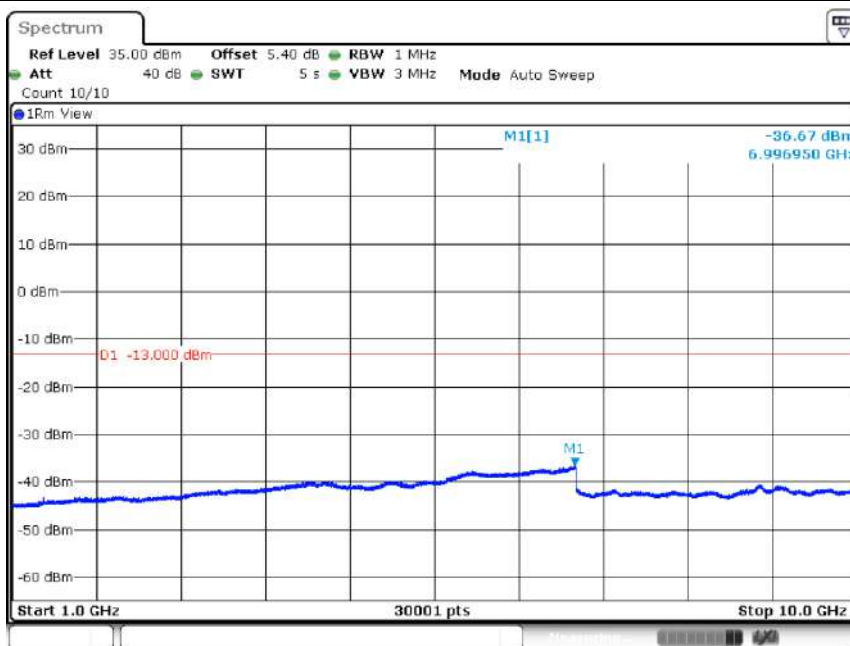


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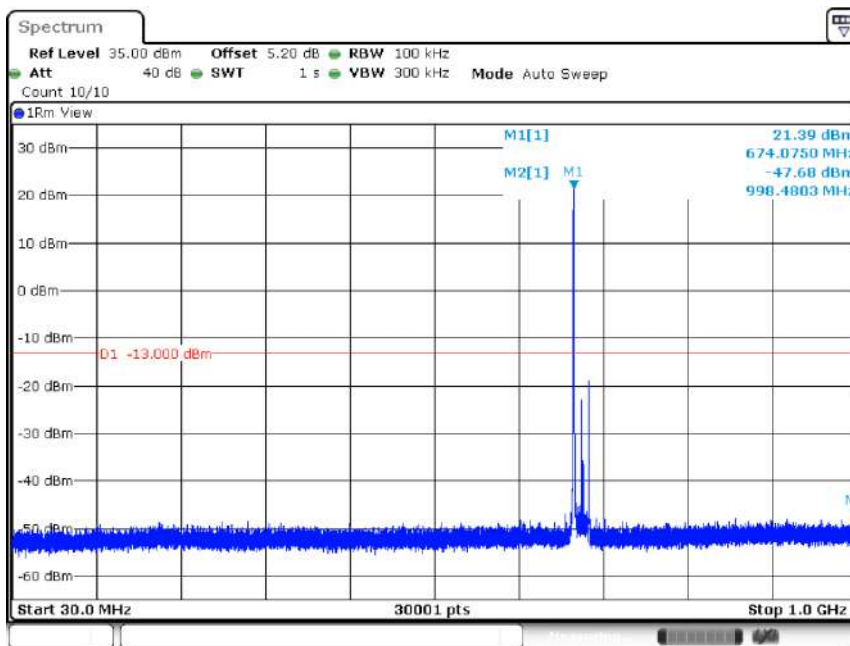
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Date: 1 SEP.2020 22:02:03

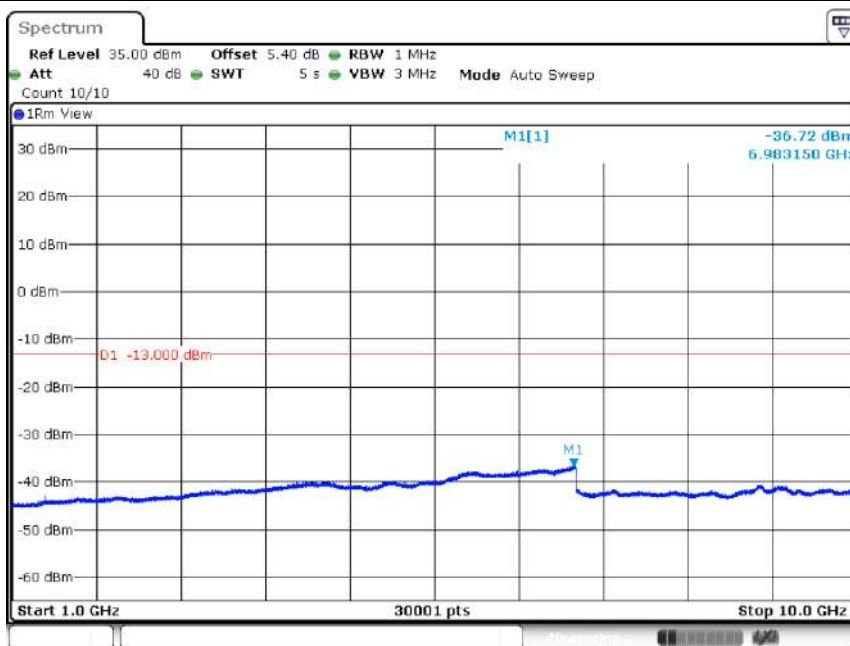
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Date: 1 SEP.2020 11:53:08

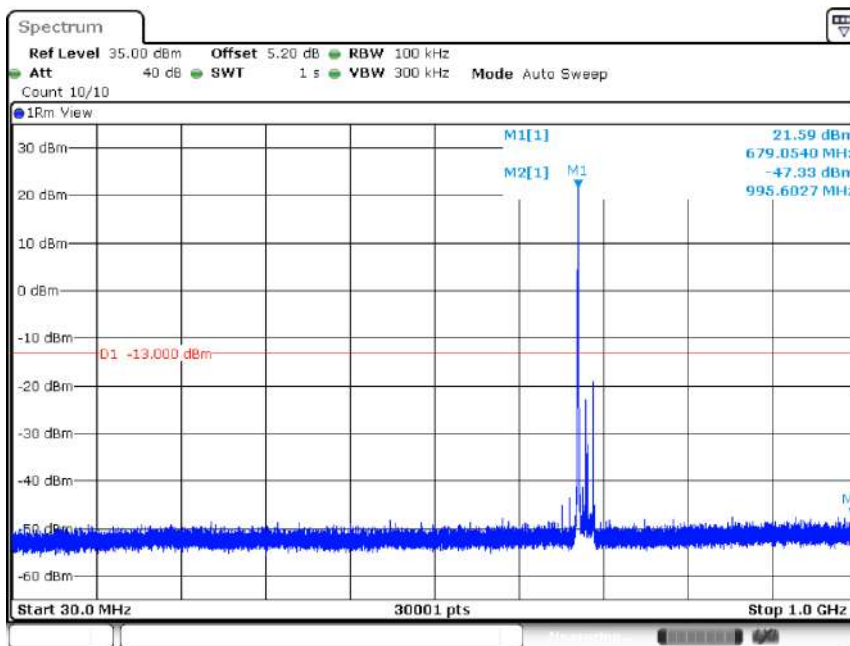


Band71-20MHz-16QAM-133322-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 22:04:24

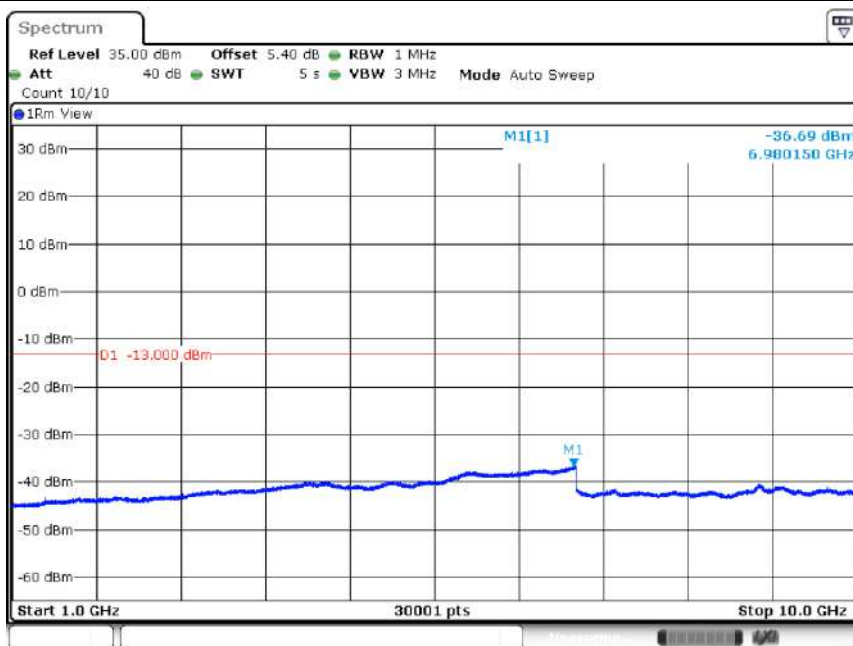
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



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)	Height [cm]	Angle [°]	Polarization
53.9117	-71.48	-13.00	58.48	164	330	Vertical
109.3500	-64.24	-13.00	51.24	258	353	Vertical
1328.0656	-58.49	-13.00	45.49	249	305	Vertical
1992.1984	-49.79	-13.00	36.79	196	297	Vertical
4648.1459	-60.48	-13.00	47.48	321	13	Vertical
9881.8353	-52.10	-13.00	39.10	261	264	Vertical
40.2340	-63.96	-13.00	50.96	215	153	Horizontal
227.1624	-67.96	-13.00	54.96	184	245	Horizontal
1328.0656	-54.13	-13.00	41.13	321	41	Horizontal
1992.5985	-43.09	-13.00	30.09	184	358	Horizontal
5530.4612	-60.91	-13.00	47.91	215	288	Horizontal
9327.6931	-52.23	-13.00	39.23	213	312	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.8835	-65.32	-13.00	52.32	215	220	Vertical
420.5900	-67.99	-13.00	54.99	163	187	Vertical
1342.8686	-57.19	-13.00	44.19	231	307	Vertical
2014.6029	-49.26	-13.00	36.26	252	303	Vertical
4701.0680	-56.32	-13.00	43.32	281	0	Vertical
9892.1957	-52.16	-13.00	39.16	184	165	Vertical
43.9202	-64.69	-13.00	51.69	257	207	Horizontal
236.9113	-68.40	-13.00	55.40	185	304	Horizontal
1342.8686	-55.20	-13.00	42.20	149	34	Horizontal
2015.0030	-42.91	-13.00	29.91	196	177	Horizontal
3357.8543	-58.38	-13.00	45.38	321	228	Horizontal
9322.9329	-52.75	-13.00	39.75	262	327	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.2230	-64.80	-13.00	51.80	254	321	Vertical
400.6070	-67.85	-13.00	54.85	185	300	Vertical
1358.0716	-59.53	-13.00	46.53	174	4	Vertical
2037.4075	-44.79	-13.00	31.79	196	299	Vertical
3395.0958	-57.87	-13.00	44.87	231	14	Vertical
4753.7101	-57.92	-13.00	44.92	251	250	Vertical
44.3082	-64.15	-13.00	51.15	158	294	Horizontal
238.0269	-68.49	-13.00	55.49	196	270	Horizontal
1358.0716	-60.15	-13.00	47.15	184	41	Horizontal
2037.4075	-38.88	-13.00	25.88	184	210	Horizontal
3395.3758	-53.40	-13.00	40.40	251	216	Horizontal
9300.5320	-52.40	-13.00	39.40	248	216	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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