



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)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.31	18.36	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.24	18.29	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.58	18.63	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.33	17.38	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.31	17.36	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.50	17.55	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.46	17.51	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.52	18.57	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.44	18.49	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.10	18.15	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.58	17.63	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.35	17.40	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.50	17.55	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.48	17.53	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.06	18.11	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.48	18.53	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.19	18.24	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#0	22.55	17.60	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#6	22.38	17.43	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#13	22.38	17.43	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.55	17.60	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.83	16.88	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.41	17.46	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.93	16.98	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.45	16.50	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.27	16.32	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.42	16.47	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.58	16.63	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.99	17.04	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.18	17.23	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.92	16.97	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.15	16.20	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.30	16.35	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#6	21.30	16.35	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.65	16.70	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.43	17.48	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.89	16.94	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.26	17.31	34.77	PASS



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Band71	5MHz	16QAM	133447	12RB#0	21.39	16.44	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.28	16.33	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#13	21.26	16.31	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.38	16.43	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.63	18.68	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.85	18.90	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.38	18.43	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.09	17.14	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.53	17.58	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.81	17.86	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.46	17.51	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.68	18.73	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.32	18.37	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.09	18.14	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.49	17.54	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.80	17.85	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.24	17.29	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.58	17.63	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.46	18.51	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.31	18.36	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.25	18.30	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#0	22.65	17.70	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.55	17.60	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#12	22.57	17.62	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.44	17.49	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.31	17.36	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.07	17.12	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.22	17.27	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.60	16.65	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.52	16.57	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.53	16.58	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.56	16.61	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.93	16.98	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.38	17.43	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.96	17.01	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.57	16.62	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.71	16.76	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.51	16.56	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.53	16.58	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.98	17.03	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.98	17.03	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.00	17.05	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#0	21.63	16.68	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#12	21.48	16.53	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#25	21.37	16.42	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.42	16.47	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.39	18.44	34.77	PASS



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Band71	15MHz	QPSK	133197	1RB#38	23.74	18.79	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.45	18.50	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#0	22.36	17.41	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#18	22.59	17.64	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#39	22.58	17.63	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.35	17.40	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.72	18.77	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.42	18.47	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.94	17.99	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#0	22.76	17.81	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#18	22.22	17.27	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#39	22.40	17.45	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.54	17.59	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.15	18.20	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.17	18.22	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.24	18.29	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#0	22.46	17.51	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#18	22.48	17.53	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#39	22.65	17.70	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.36	17.41	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.52	17.57	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.05	17.10	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.15	17.20	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#18	21.62	16.67	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#0	21.55	16.60	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#39	21.62	16.67	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.49	16.54	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.03	17.08	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.95	17.00	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.83	16.88	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#39	21.57	16.62	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#0	21.51	16.56	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#18	21.54	16.59	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.46	16.51	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.40	17.45	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.44	17.49	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.32	17.37	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#0	21.47	16.52	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#18	21.58	16.63	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#39	21.56	16.61	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.35	16.40	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.54	17.59	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	24.03	19.08	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.27	18.32	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.79	17.84	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.86	17.91	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.25	17.30	34.77	PASS



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Band71	20MHz	QPSK	133222	100RB#0	22.56	17.61	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.50	18.55	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.20	18.25	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.17	18.22	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.39	17.44	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.74	17.79	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.43	17.48	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.52	17.57	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.64	18.69	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.17	18.22	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.86	17.91	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.61	17.66	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.41	17.46	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.59	17.64	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.47	17.52	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.97	17.02	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.29	17.34	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.60	17.65	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#50	21.51	16.56	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#25	21.53	16.58	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#0	21.53	16.58	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.56	16.61	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.01	17.06	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.03	17.08	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.98	17.03	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#50	21.47	16.52	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#0	21.58	16.63	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#25	21.46	16.51	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.53	16.58	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.11	17.16	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.45	17.50	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.16	17.21	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#0	21.43	16.48	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.45	16.50	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#50	21.59	16.64	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.40	16.45	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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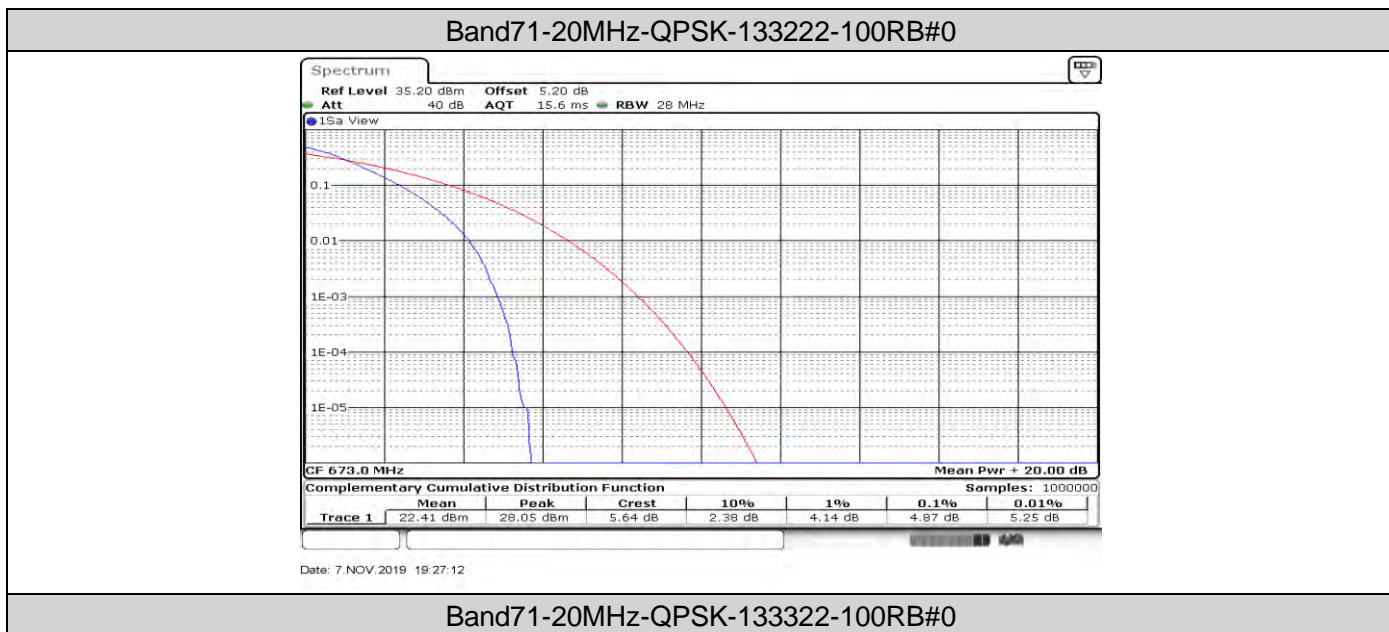


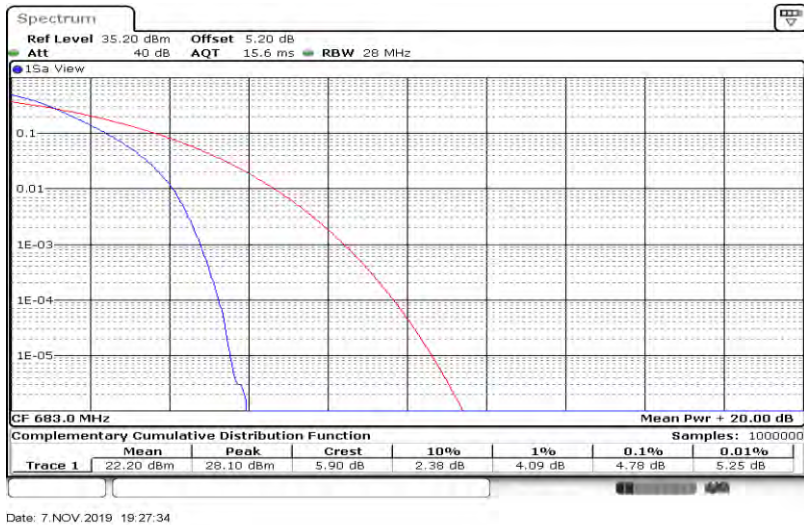
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	4.87	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.78	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.01	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.74	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.83	13	PASS

2.2. Test Plots





Date: 7 NOV. 2019 19:27:34

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

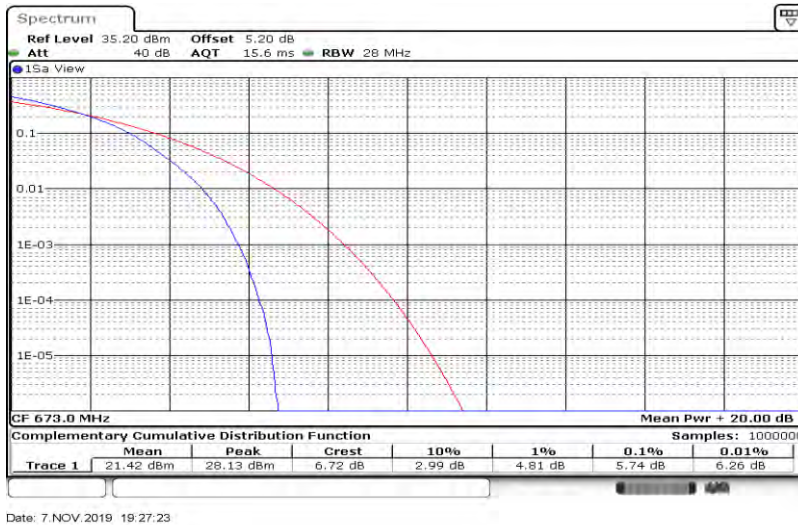


Date: 7 NOV. 2019 19:27:56

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



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Date: 7 NOV. 2019 19:27:23

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

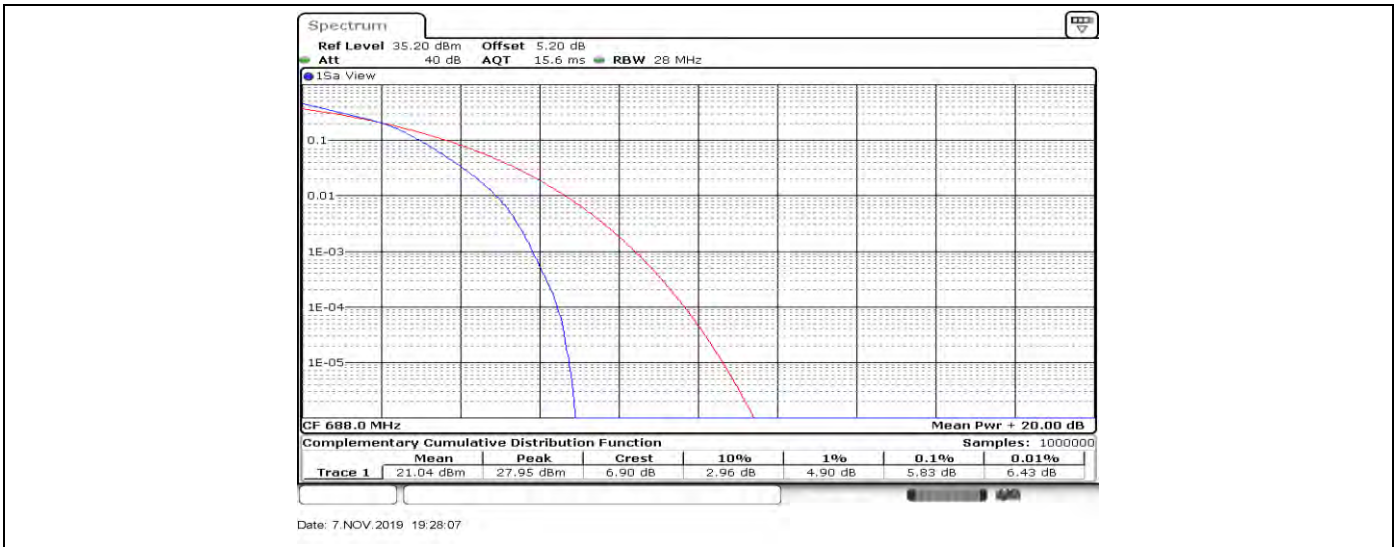


Date: 7 NOV. 2019 19:27:45

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



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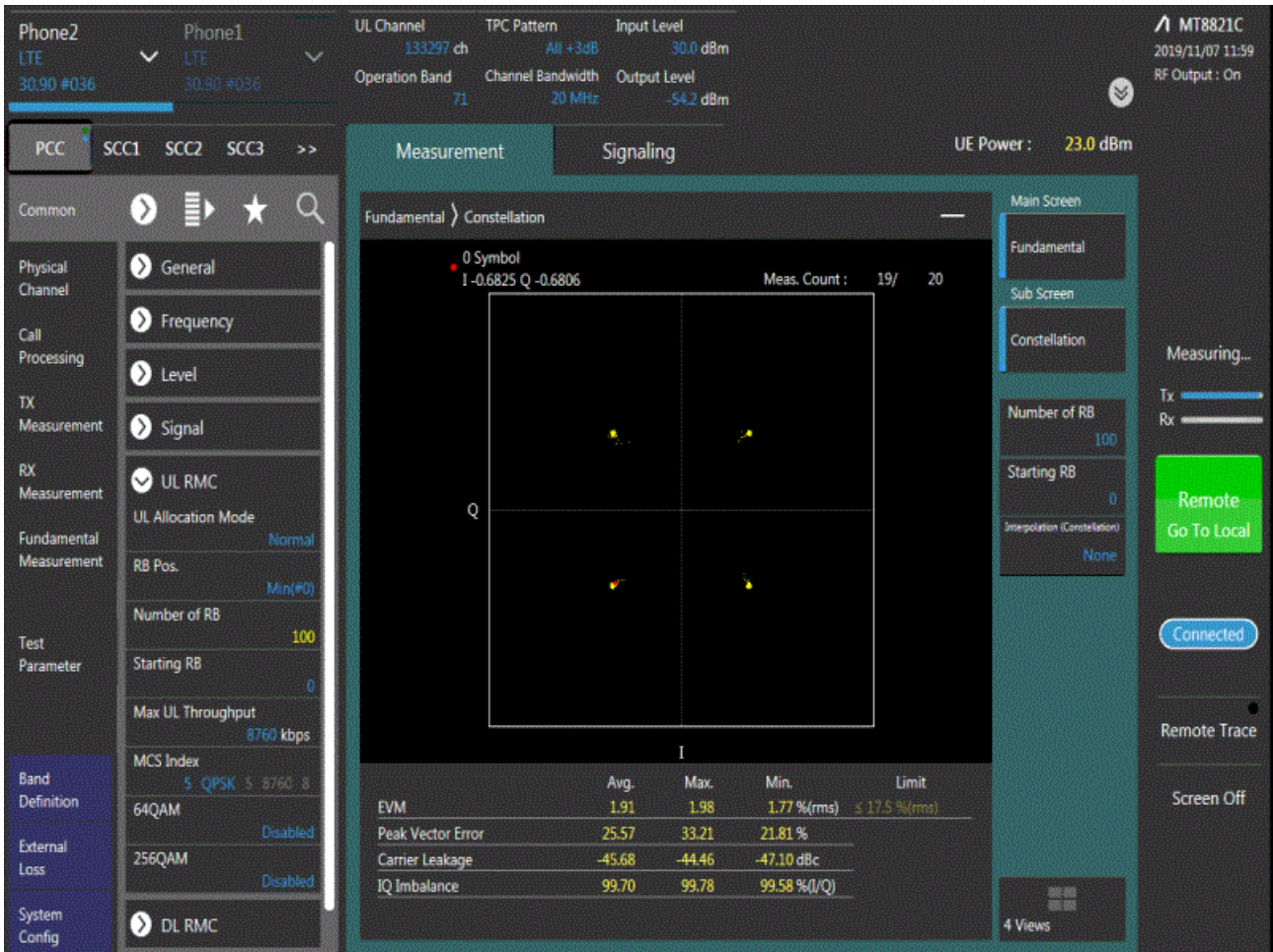
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



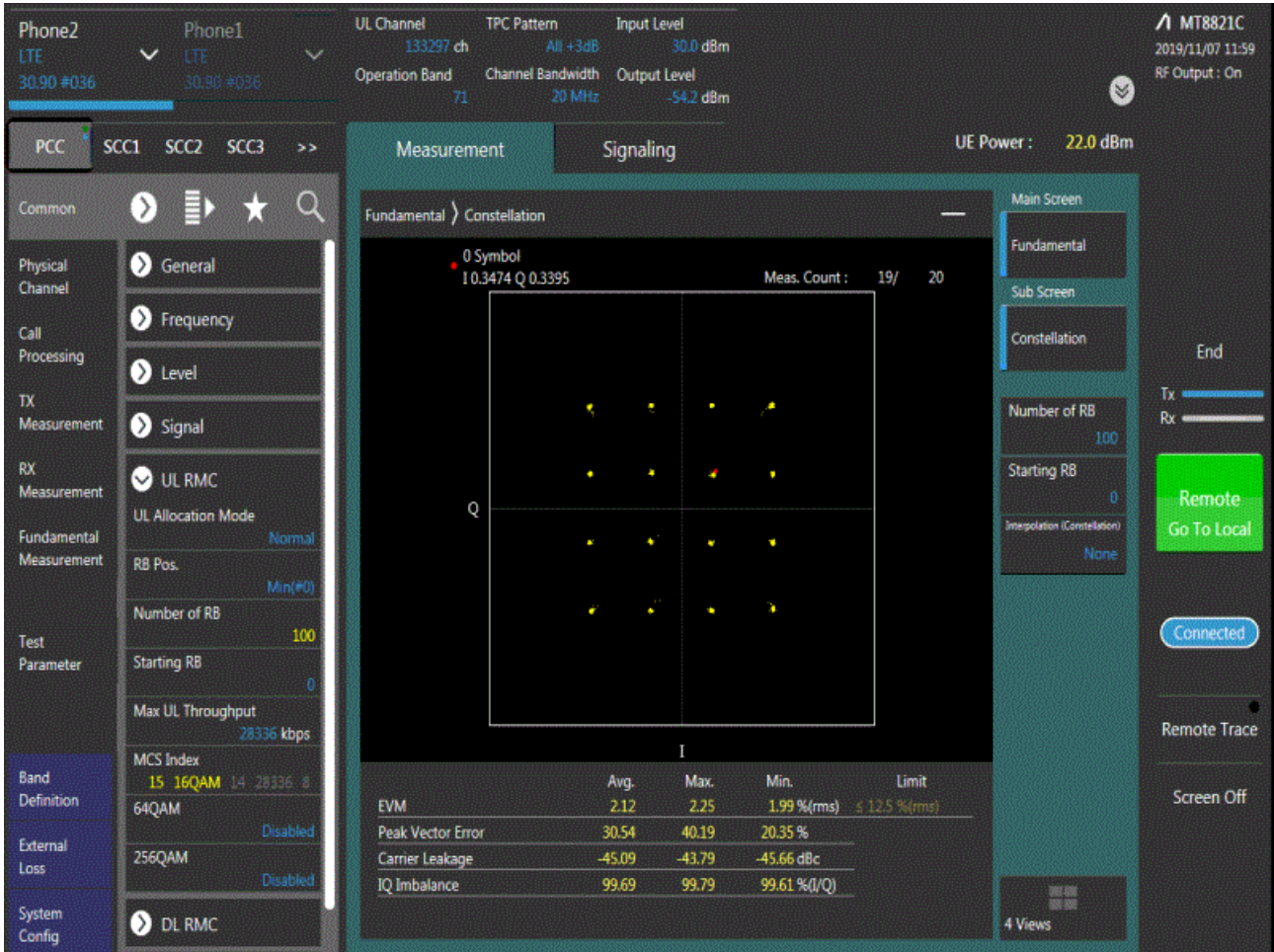
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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.900	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.476	4.910	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.466	4.900	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	4.970	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.476	4.960	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.486	4.950	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.720	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.911	9.680	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.911	9.720	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.911	9.760	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.720	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.931	9.680	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.457	14.850	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.367	14.700	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.457	14.880	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.427	14.700	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.367	14.700	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.457	14.760	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.822	19.400	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.782	19.320	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.902	19.440	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.822	19.200	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.822	19.280	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.902	19.400	PASS



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4.2. Test Plots

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



Date: 7.NOV.2019 19:01:27

Band71-5MHz-QPSK-133297-25RB#0-4.476

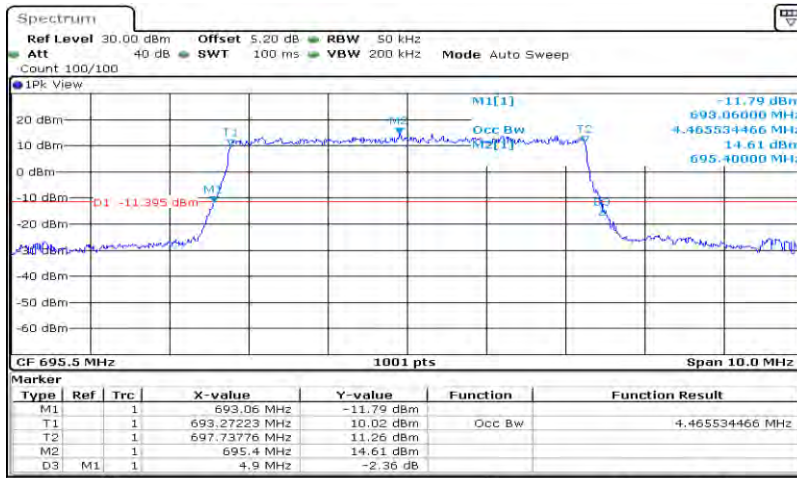


Date: 7.NOV.2019 19:02:06

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

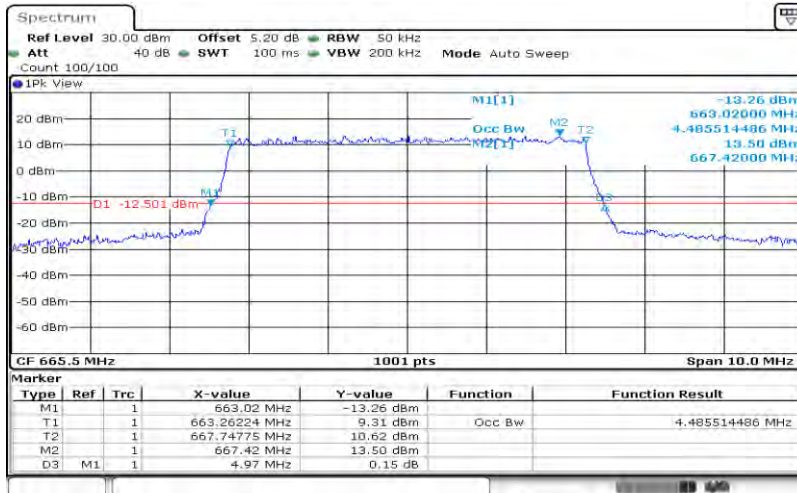


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Date: 7 NOV. 2019 19:02:46

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

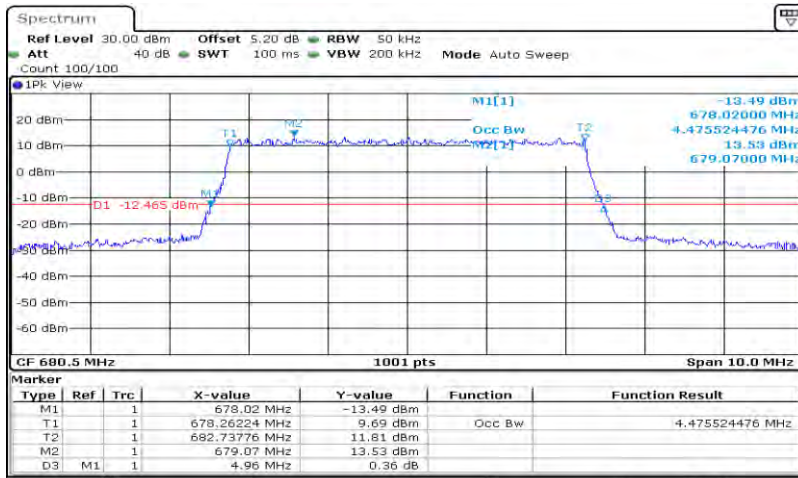


Date: 7 NOV. 2019 19:01:47

Band71-5MHz-16QAM-133297-25RB#0-4.476

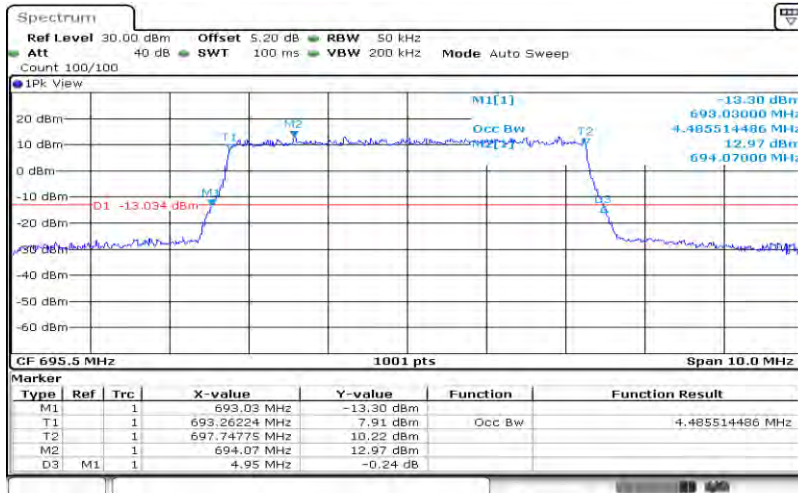


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Date: 7 NOV. 2019 19:02:26

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

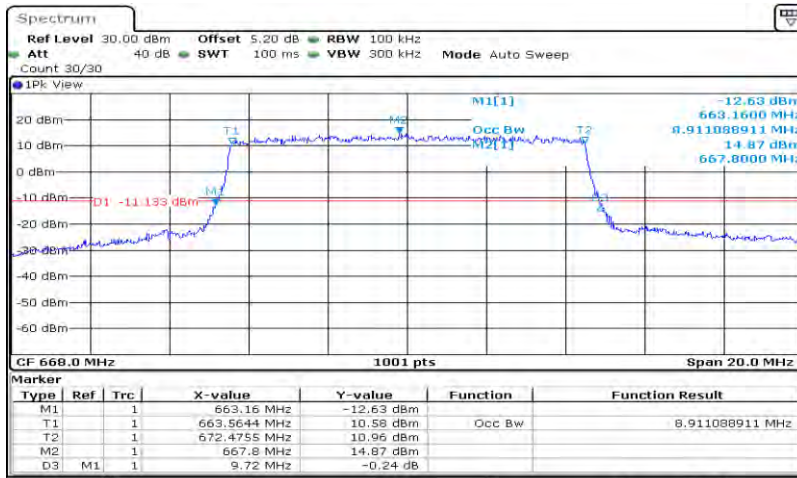


Date: 7 NOV. 2019 19:03:06

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



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Date: 7 NOV. 2019 19:03:23

Band71-10MHz-QPSK-133297-50RB#0-8.911

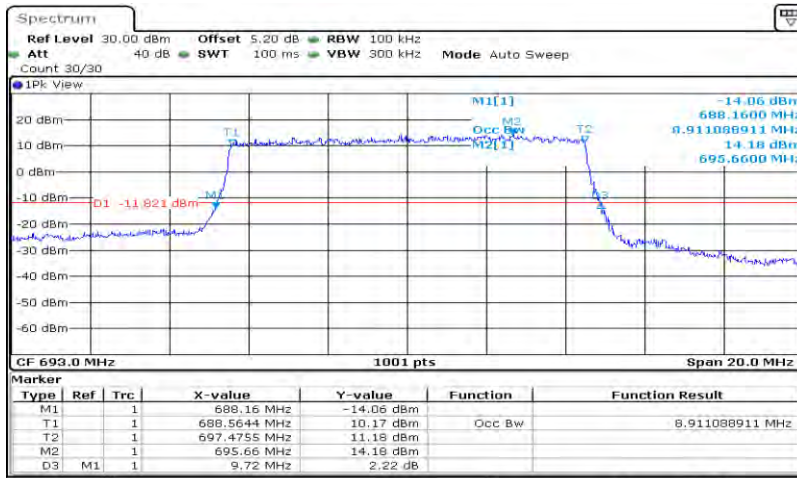


Date: 7 NOV. 2019 19:03:49

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

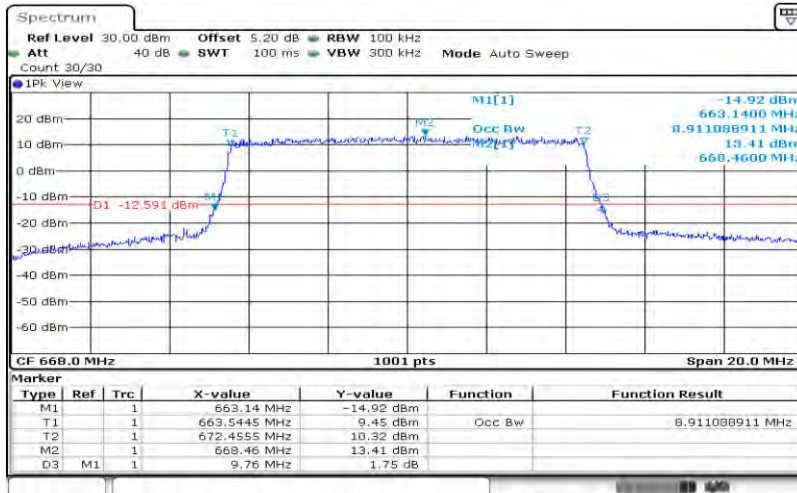


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Date: 7 NOV. 2019 19:04:15

Band71-10MHz-16QAM-133172-50RB#0-8.911

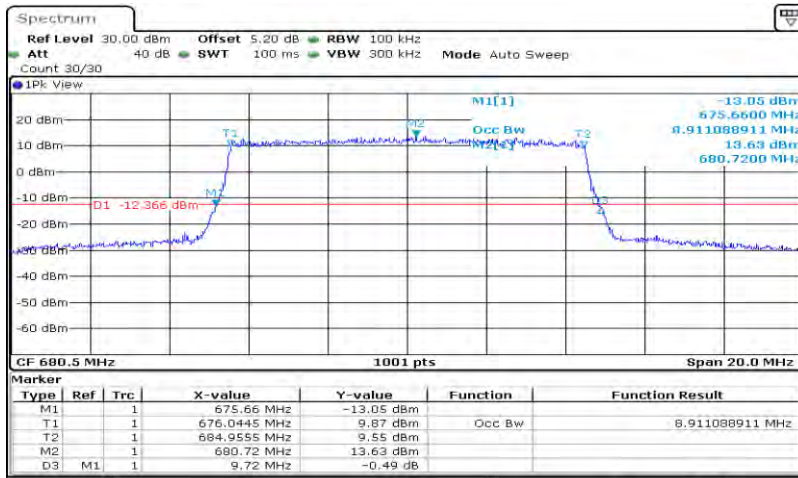


Date: 7 NOV. 2019 19:03:36

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



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Date: 7 NOV. 2019 19:04:02

Band71-10MHz-16QAM-133422-50RB#0-8.931

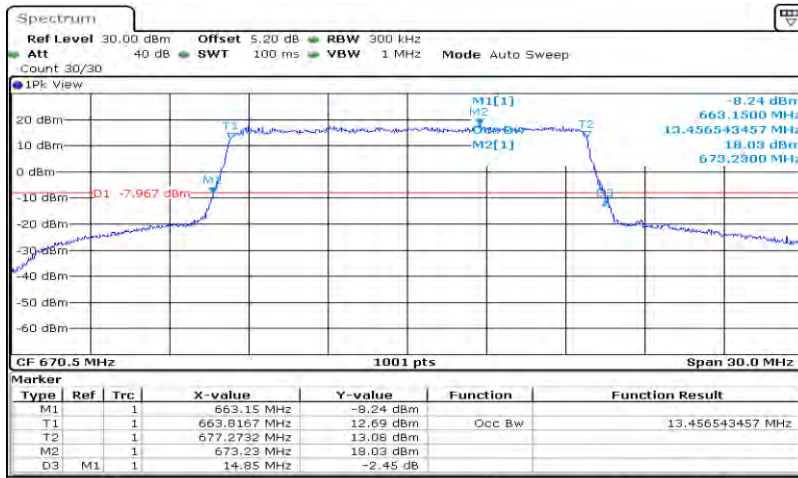


Date: 7 NOV. 2019 19:04:27

Band71-15MHz-QPSK-133197-75RB#0-13.457



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Date: 7 NOV. 2019 19:04:45

Band71-15MHz-QPSK-133297-75RB#0-13.367

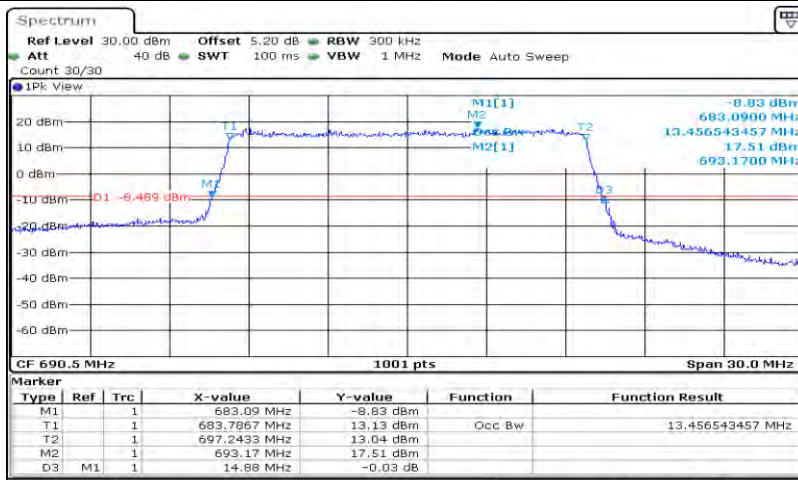


Date: 7 NOV. 2019 19:05:11

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

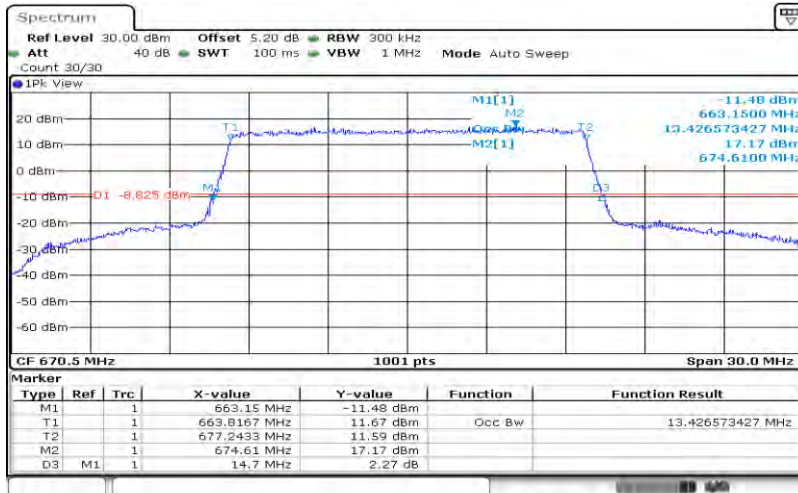


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Date: 7 NOV. 2019 19:05:36

Band71-15MHz-16QAM-133197-75RB#0-13.427

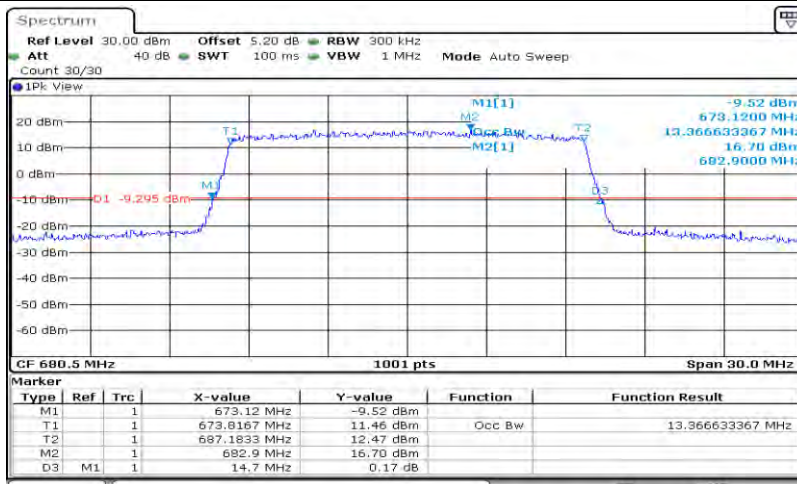


Date: 7 NOV. 2019 19:04:58

Band71-15MHz-16QAM-133297-75RB#0-13.367

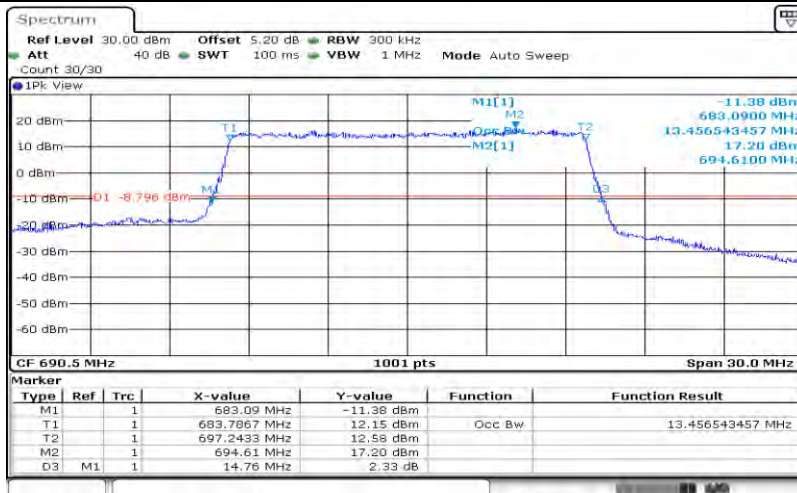


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Date: 7.NOV.2019 19:05:23

Band71-15MHz-16QAM-133397-75RB#0-13.457

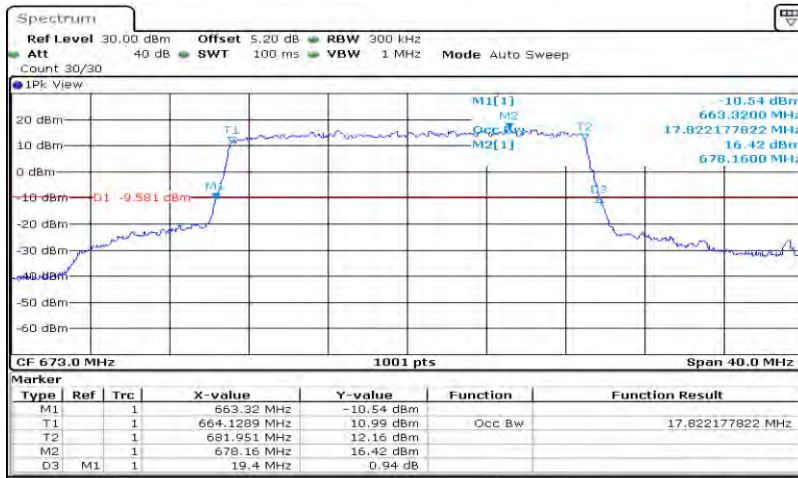


Date: 7.NOV.2019 19:05:49

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

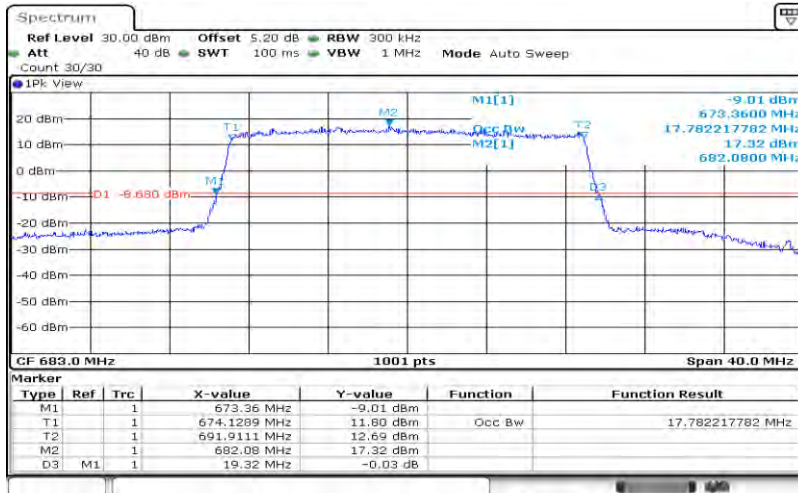


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Date: 7.NOV.2019 19:06:10

Band71-20MHz-QPSK-133322-100RB#0-17.782

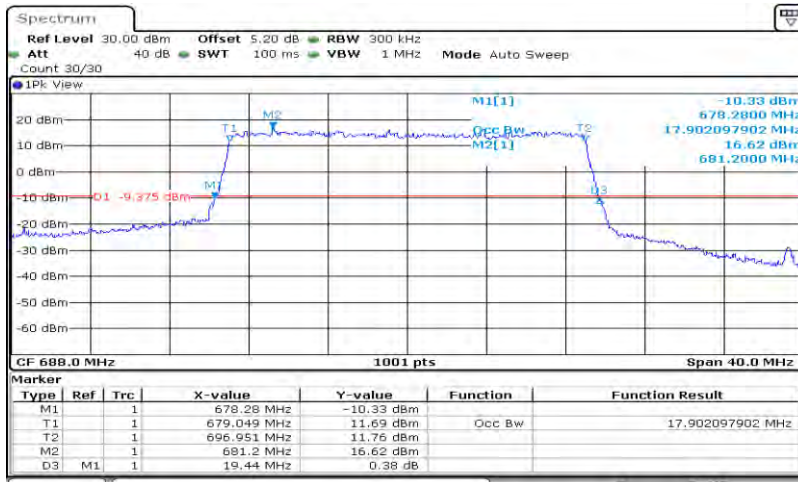


Date: 7.NOV.2019 19:06:36

Band71-20MHz-QPSK-133372-100RB#0-17.902

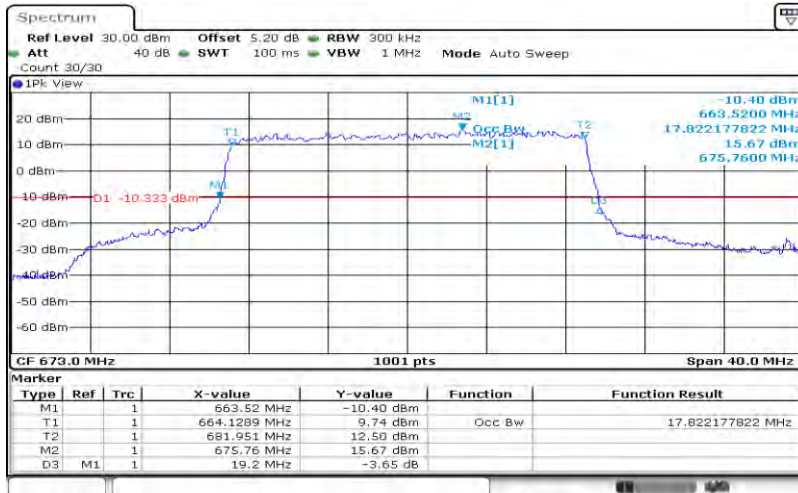


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Date: 7 NOV. 2019 19:07:01

Band71-20MHz-16QAM-133222-100RB#0-17.822

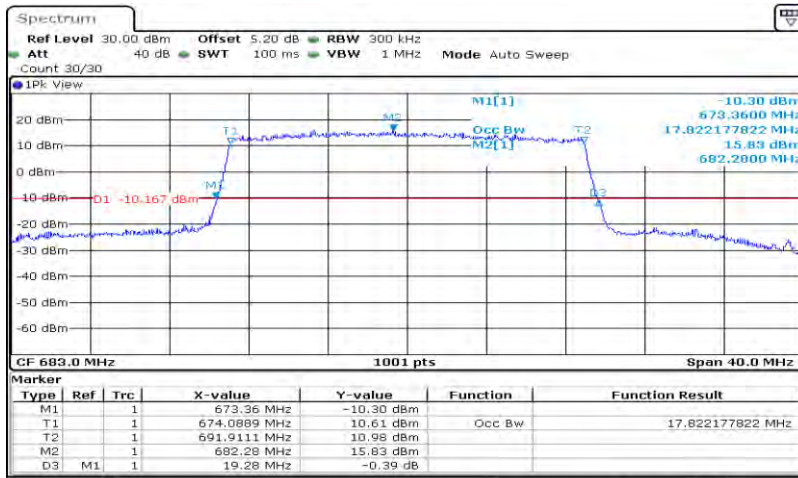


Date: 7 NOV. 2019 19:06:23

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

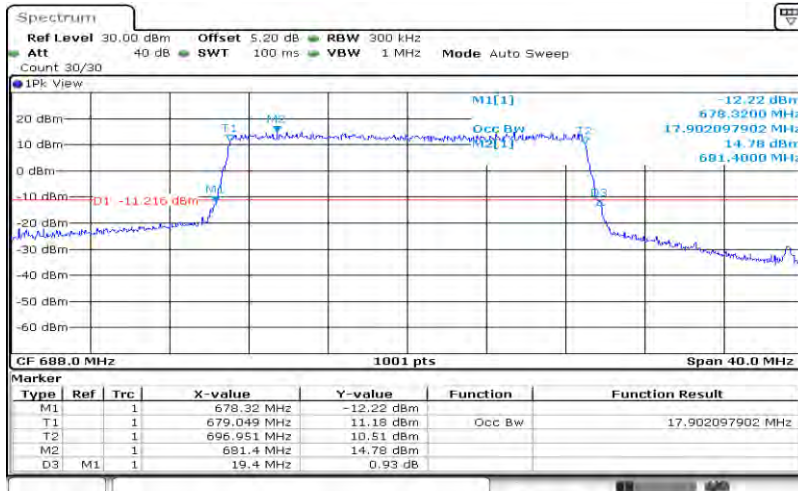


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Date: 7.NOV.2019 19:06:48

Band71-20MHz-16QAM-133372-100RB#0-17.902



Date: 7.NOV.2019 19:07:14

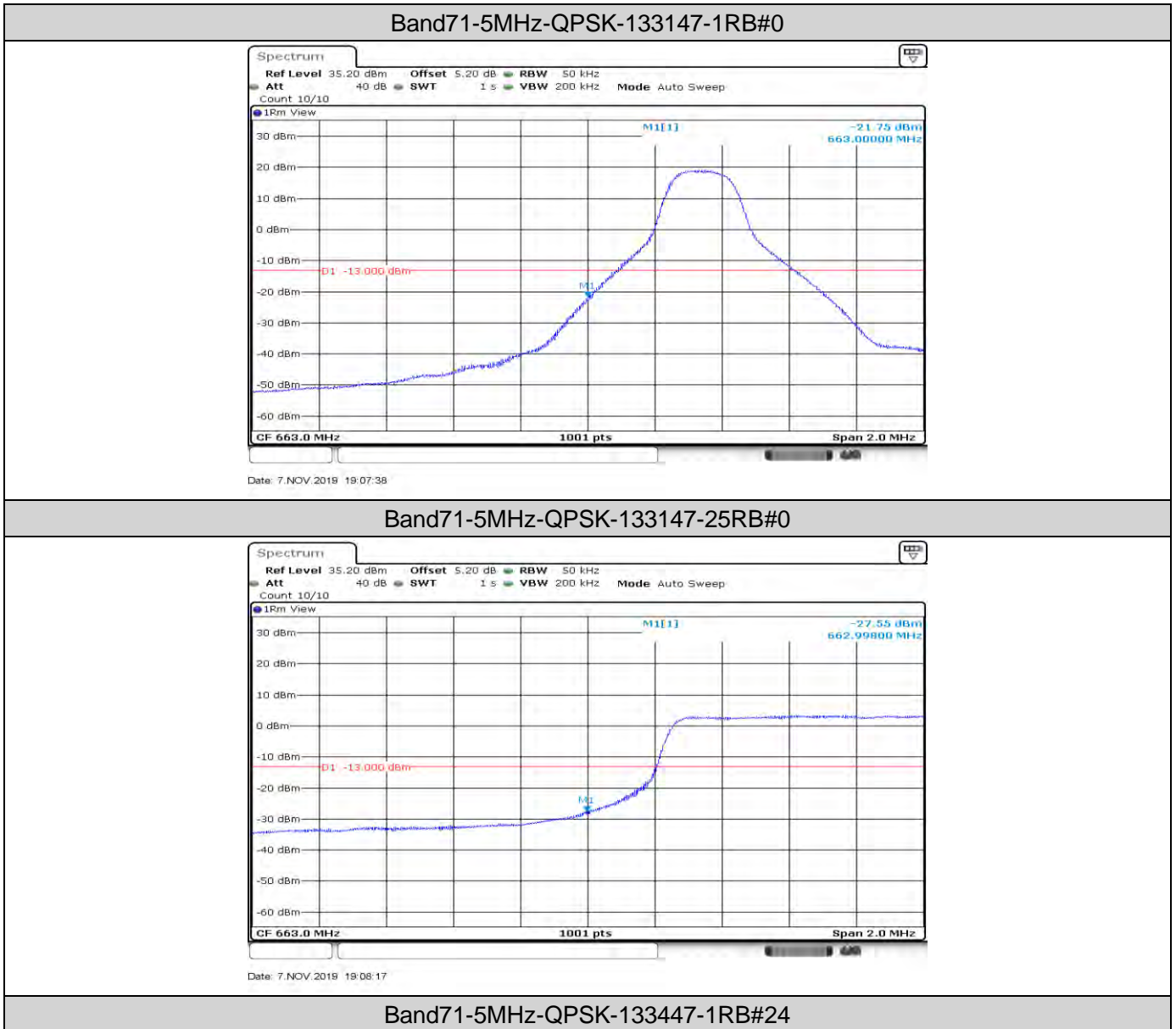


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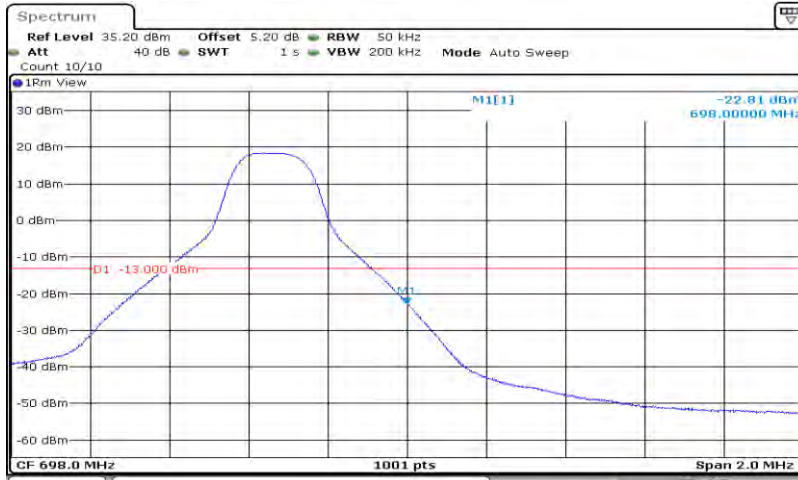
5. Band Edge Compliance

5.1. Test Plots



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Date: 7.NOV.2019 19:09:00

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



Date: 7.NOV.2019 19:09:39

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



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Date: 7.NOV.2019 19:07:57

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



Date: 7.NOV.2019 19:08:36

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



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Date: 7.NOV.2019 19:09:19

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



Date: 7.NOV.2019 19:09:58

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



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Date: 7.NOV.2019 19:10:22

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



Date: 7.NOV.2019 19:11:01

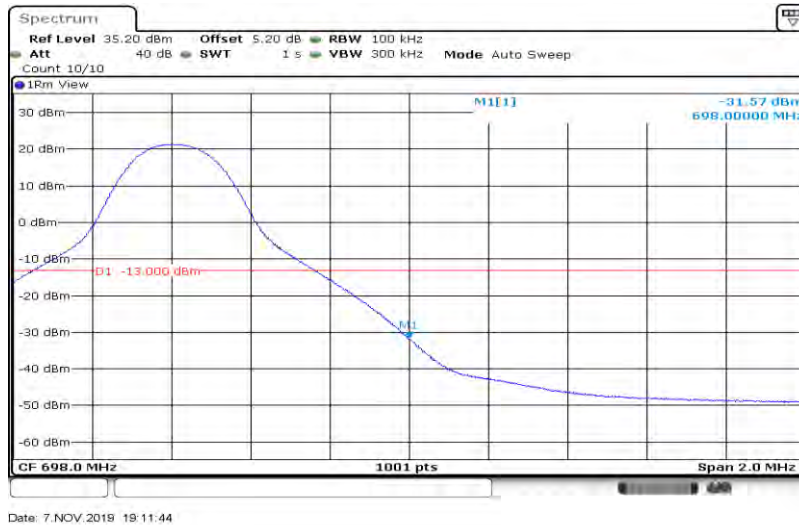
Band71-10MHz-QPSK-133422-1RB#49



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



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



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



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



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Date: 7.NOV.2019 19:12:04

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



Date: 7.NOV.2019 19:12:43

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



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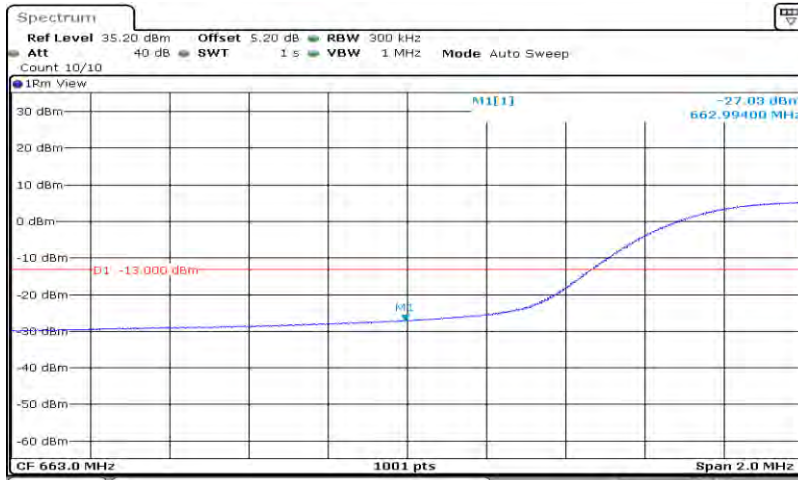
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Date: 7.NOV.2019 19:13:07

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



Date: 7.NOV.2019 19:13:46

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



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Date: 7.NOV.2019 19:14:29

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



Date: 7.NOV.2019 19:15:08

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



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Date: 7.NOV.2019 19:13:26

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



Date: 7.NOV.2019 19:14:05

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



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Date: 7.NOV.2019 19:14:48

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



Date: 7.NOV.2019 19:15:27

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



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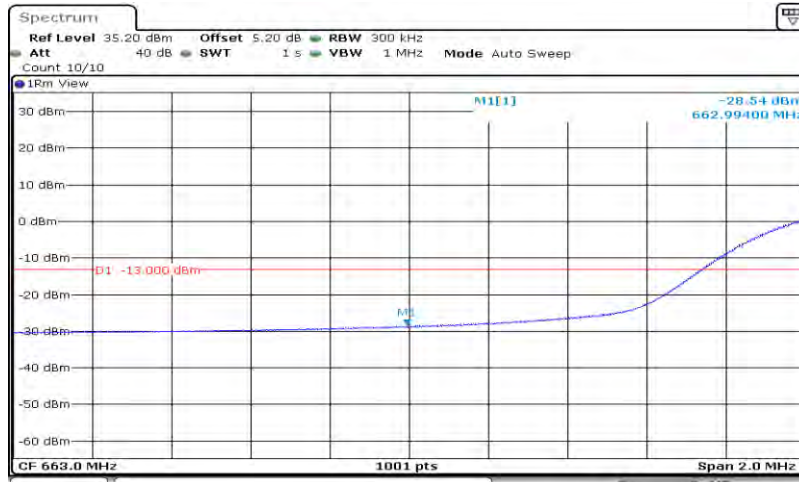
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Date: 7.NOV.2019 19:15:51

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



Date: 7.NOV.2019 19:16:30

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



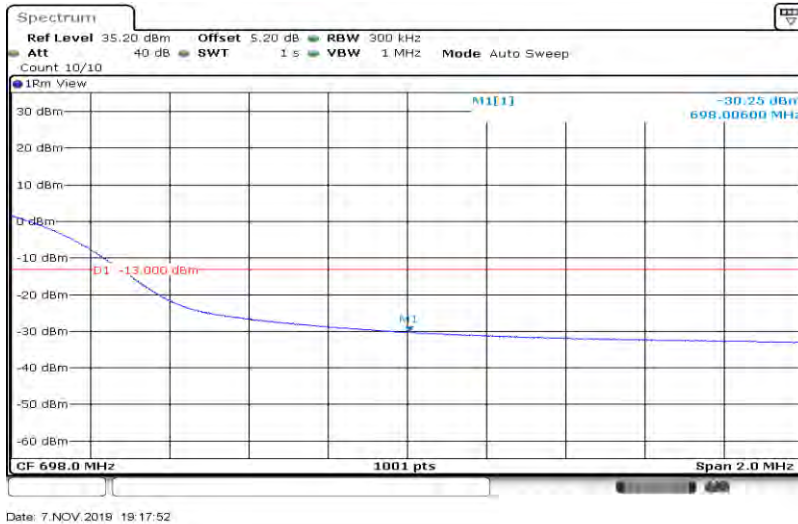
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Band71-20MHz-16QAM-133222-1RB#0



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Date: 7.NOV.2019 19:17:33

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



Date: 7.NOV.2019 19:18:12



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Shenzhen Branch, 1001# Laboratory

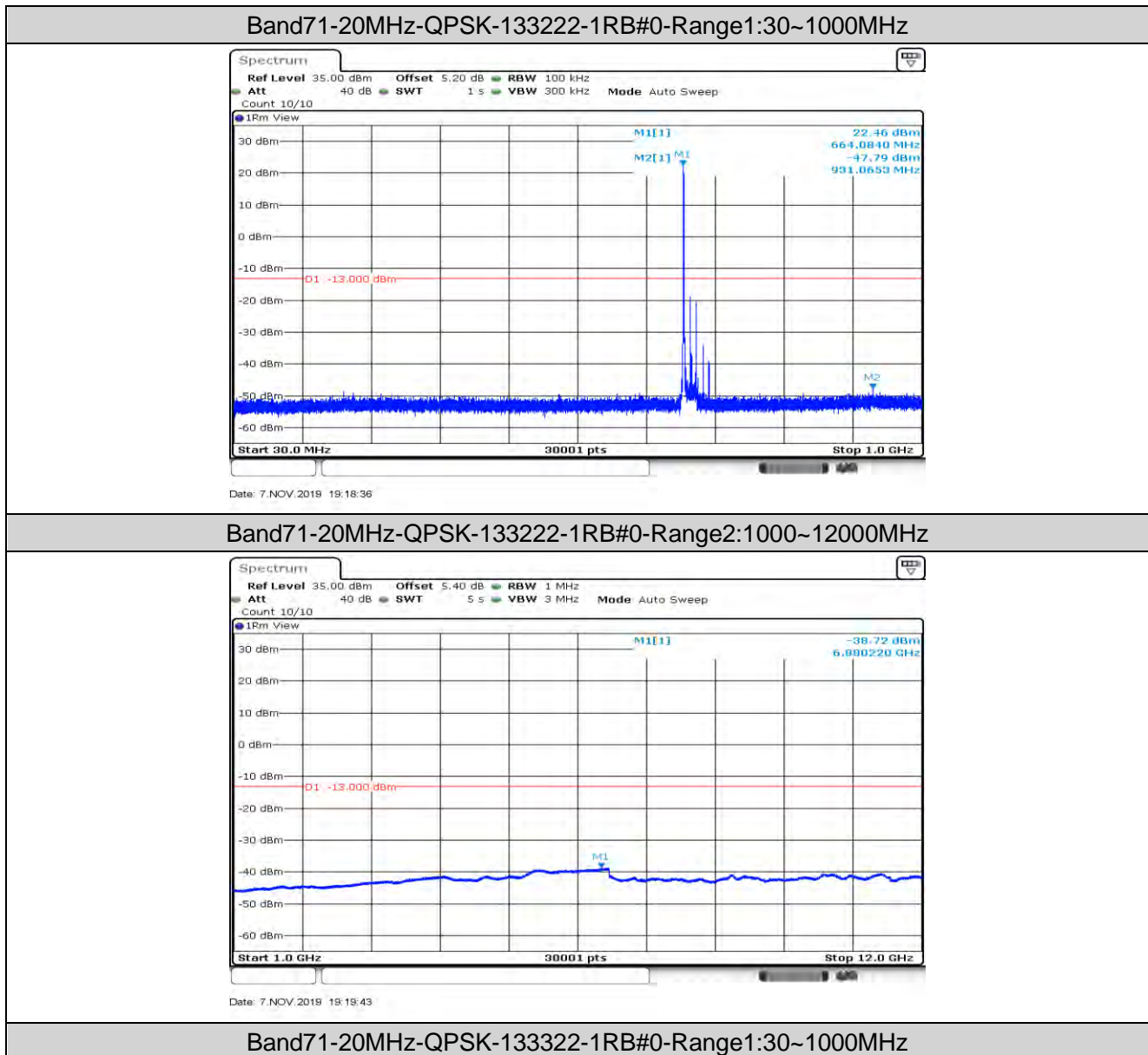
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6. Spurious Emission at Antenna Terminal

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

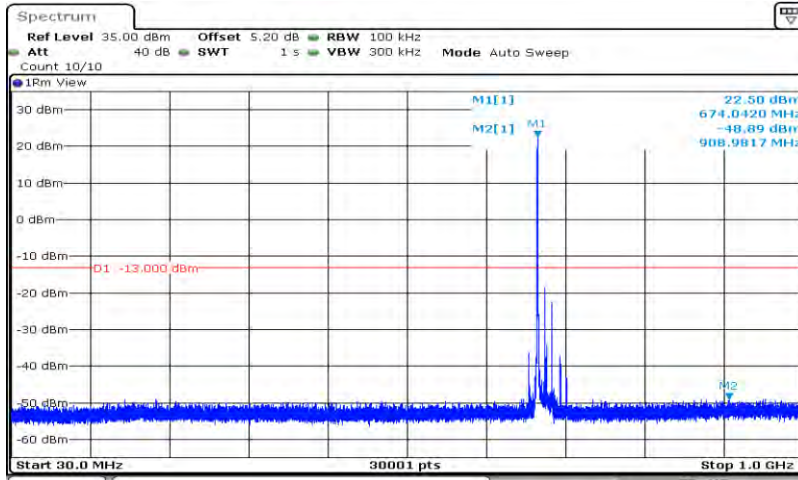
6.1. Test Plots



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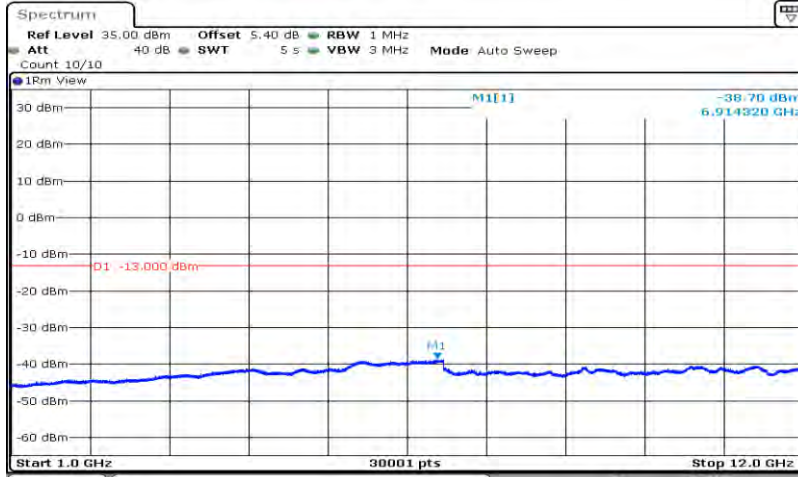
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Date: 7 NOV. 2019 19:21:29

Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~12000MHz

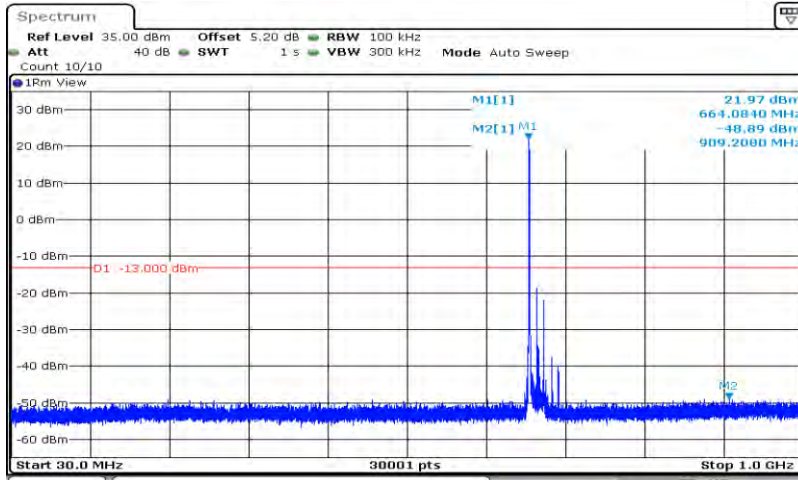


Date: 7 NOV. 2019 19:22:36

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



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Date: 7.NOV.2019 19:20:02

Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~12000MHz

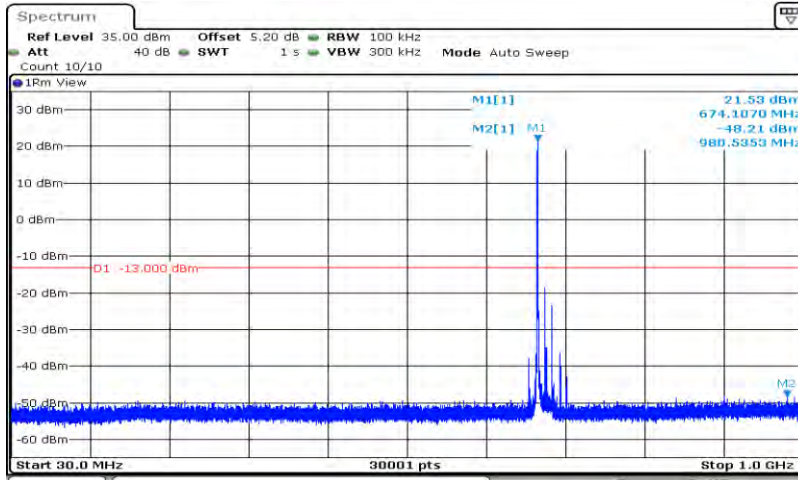


Date: 7.NOV.2019 19:21:09

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

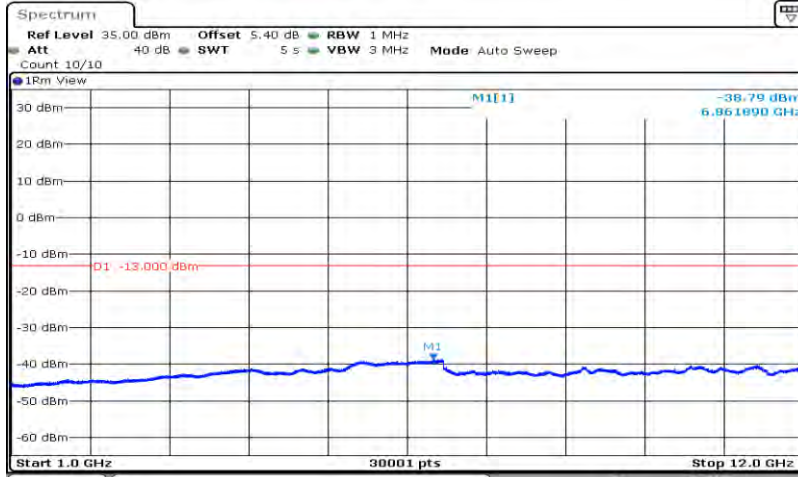


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Date: 7 NOV. 2019 19:22:55

Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~12000MHz

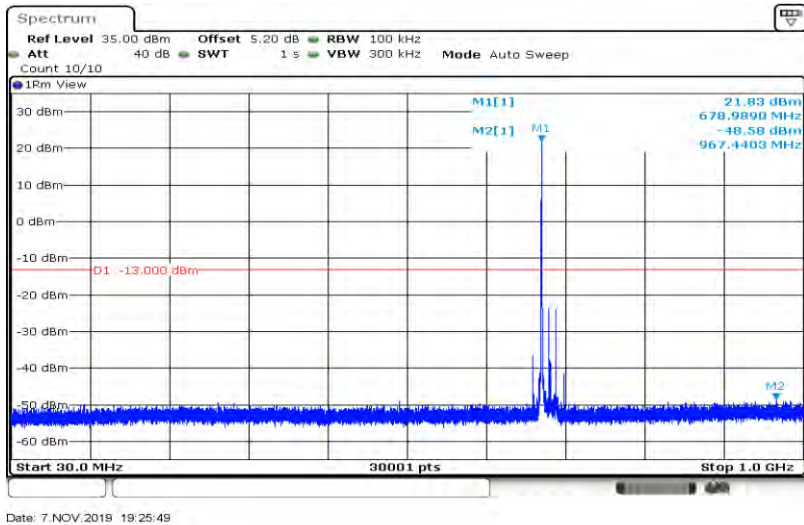


Date: 7 NOV. 2019 19:24:03

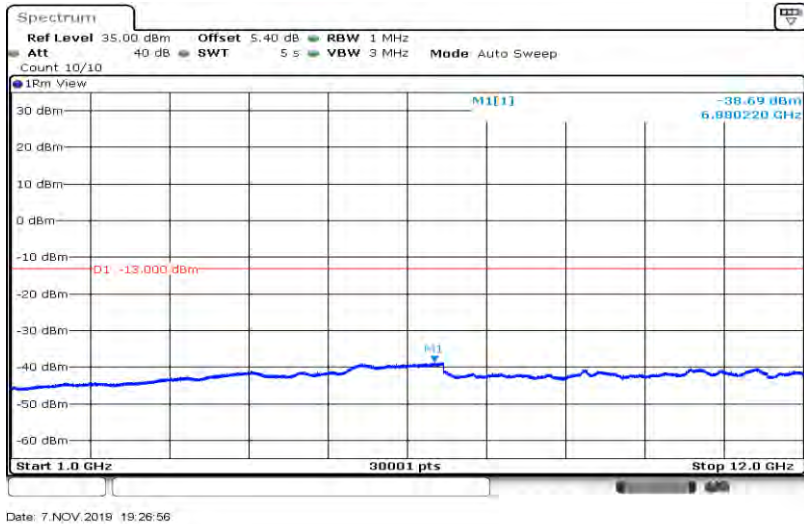
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



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Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~12000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.3768	-67.63	-13.00	54.63	Vertical
114.8792	-65.02	-13.00	52.02	Vertical
375.5798	-68.17	-13.00	55.17	Vertical
2998.3997	-56.30	-13.00	43.30	Vertical
9893.6757	-47.54	-13.00	34.54	Vertical
17992.7997	-32.99	-13.00	19.99	Vertical
40.0400	-64.25	-13.00	51.25	Horizontal
239.7245	-67.14	-13.00	54.14	Horizontal
1761.3523	-55.59	-13.00	42.59	Horizontal
2479.4959	-54.09	-13.00	41.09	Horizontal
7408.3763	-52.59	-13.00	39.59	Horizontal
16399.1360	-36.52	-13.00	23.52	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.2796	-70.38	-13.00	57.38	Vertical
111.1446	-64.85	-13.00	51.85	Vertical
1746.1492	-57.75	-13.00	44.75	Vertical
3000.0000	-56.18	-13.00	43.18	Vertical
10704.9082	-45.81	-13.00	32.81	Vertical
17991.5997	-32.91	-13.00	19.91	Vertical
43.4352	-64.49	-13.00	51.49	Horizontal
237.9784	-68.20	-13.00	55.20	Horizontal
1348.0696	-63.67	-13.00	50.67	Horizontal
2022.2044	-52.22	-13.00	39.22	Horizontal
10003.4801	-47.85	-13.00	34.85	Horizontal
16403.3361	-36.58	-13.00	23.58	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.2858	-65.36	-13.00	52.36	Vertical
464.6787	-66.90	-13.00	53.90	Vertical
1358.0716	-65.45	-13.00	52.45	Vertical
2037.4075	-59.33	-13.00	46.33	Vertical
8573.6229	-51.26	-13.00	38.26	Vertical
17993.9998	-33.01	-13.00	20.01	Vertical
44.2112	-63.95	-13.00	50.95	Horizontal
236.2808	-67.79	-13.00	54.79	Horizontal
1358.0716	-62.25	-13.00	49.25	Horizontal
2037.4075	-48.71	-13.00	35.71	Horizontal
3000.0000	-56.42	-13.00	43.42	Horizontal
16397.3359	-36.52	-13.00	23.52	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	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-0.50	-0.000743	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-3.60	-0.005271	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-1.70	-0.002526	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-1.80	-0.002635	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	0.10	0.000146	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-1.30	-0.001890	±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	-0.10	-0.000149	±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	0	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-1.50	-0.002229	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-0.50	-0.000743	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-2.30	-0.003367	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-2.10	-0.003075	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-0.70	-0.001025	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-1.80	-0.002635	±2.5	PASS



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Band71	20MHz	QPSK	133322	100RB#0	NV	50	-3.30	-0.004832	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-2.70	-0.003924	±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	20	-2.90	-0.004215	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-1.70	-0.002471	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-2.20	-0.003269	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-1.50	-0.002229	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-0.50	-0.000743	±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	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-1.30	-0.001932	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-1.30	-0.001903	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-2.20	-0.003221	±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	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-1.30	-0.001903	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-2.20	-0.003221	±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	-0.50	-0.000727	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-1.90	-0.002762	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-2.40	-0.003488	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-3.10	-0.004506	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-1.90	-0.002762	±2.5	PASS



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