

Appendix B

E-UTRA Band 71



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CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1.	TEST RESULT	4
2.	PEAK-TO-AVERAGE RATIO (CCDF)	10
2.1.	TEST RESULT	10
2.2.	TEST PLOTS.....	10
3.	MODULATION CHARACTERISTICS	14
3.1.	TEST MODE = LTE /TM1 20MHZ.....	14
3.1.1.	TEST CHANNEL = MCH.....	14
3.2.	TEST MODE = LTE /TM2 20MHZ.....	15
3.2.1.	TEST CHANNEL = MCH.....	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	16
4.1.	TEST RESULT	16
4.2.	TEST PLOTS.....	17
5.	BAND EDGE COMPLIANCE	29
5.1.	TEST PLOTS.....	29
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	46
6.1.	TEST PLOTS.....	46
7.	FIELD STRENGTH OF SPURIOUS RADIATION	53
7.1.	TEST BAND LTE_BAND71	53
7.1.1.	Test Channel = Low Channel	53
7.2.	TEST BAND LTE_BAND71	54
7.2.1.	Test Channel = Low Channel	54
7.3.	TEST BAND LTE_BAND71	55
7.3.1.	Test Channel = Mid Channel	55
7.4.	TEST BAND LTE_BAND71	56
7.4.1.	Test Channel = Mid Channel	56
7.5.	TEST BAND LTE_BAND71	57
7.5.1.	Test Channel = High Channel	57
7.6.	TEST BAND LTE_BAND71	58
7.6.1.	Test Channel = High Channel	58



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8. FREQUENCY STABILITY59

8.1. FREQUENCY VS VOLTAGE 59

8.2. FREQUENCY VS TEMPERATURE 60



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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	22.73	17.43	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.17	17.87	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.64	17.34	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.01	16.71	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#0	21.99	16.69	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#6	21.87	16.57	36.98	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.94	16.64	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.67	17.37	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.07	17.77	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.77	17.47	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.87	16.57	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.90	16.6	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.83	16.53	36.98	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.89	16.59	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.61	17.31	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.00	17.7	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.56	17.26	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.97	16.67	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.85	16.55	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.76	16.46	36.98	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.86	16.56	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.68	16.38	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.57	16.27	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.50	16.2	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.01	15.71	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#6	20.88	15.58	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.76	15.46	36.98	PASS



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Band71	5MHz	16QAM	133147	25RB#0	20.98	15.68	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.68	16.38	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.68	16.38	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.80	16.5	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#6	20.91	15.61	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.91	15.61	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.03	15.73	36.98	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.95	15.65	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.65	16.35	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.85	16.55	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.58	16.28	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.92	15.62	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.05	15.75	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.84	15.54	36.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.95	15.65	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.74	17.44	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.15	17.85	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.62	17.32	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.01	16.71	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.98	16.68	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#25	21.88	16.58	36.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.91	16.61	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.67	17.37	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.08	17.78	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.74	17.44	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.87	16.57	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#0	21.88	16.58	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.81	16.51	36.98	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.93	16.63	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.60	17.3	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.99	17.69	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.56	17.26	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.92	16.62	36.98	PASS



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Band71	10MHz	QPSK	133422	25RB#0	21.87	16.57	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.77	16.47	36.98	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.84	16.54	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.67	16.37	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.57	16.27	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.56	16.26	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#0	20.98	15.68	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#12	20.83	15.53	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.76	15.46	36.98	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.00	15.7	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.64	16.34	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.72	16.42	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.80	16.5	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.91	15.61	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#12	20.93	15.63	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.01	15.71	36.98	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.97	15.67	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.63	16.33	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.84	16.54	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.56	16.26	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.91	15.61	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#25	21.03	15.73	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.87	15.57	36.98	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.91	15.61	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.76	17.46	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.15	17.85	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.65	17.35	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#0	22.03	16.73	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#39	21.99	16.69	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#18	21.89	16.59	36.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.93	16.63	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.63	17.33	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.07	17.77	36.98	PASS



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Band71	15MHz	QPSK	133297	1RB#0	22.78	17.48	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#0	21.92	16.62	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#39	21.90	16.6	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#18	21.83	16.53	36.98	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.92	16.62	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.62	17.32	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.02	17.72	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.54	17.24	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#0	21.96	16.66	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#18	21.89	16.59	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#39	21.80	16.5	36.98	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.83	16.53	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.68	16.38	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.57	16.27	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.56	16.26	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#0	21.01	15.71	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#18	20.85	15.55	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#39	20.77	15.47	36.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.98	15.68	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.68	16.38	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.73	16.43	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.82	16.52	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#39	20.89	15.59	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#0	20.91	15.61	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#18	21.05	15.75	36.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.99	15.69	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.62	16.32	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.83	16.53	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.54	16.24	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#39	20.93	15.63	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#18	21.02	15.72	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#0	20.88	15.58	36.98	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.95	15.65	36.98	PASS



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Band71	20MHz	QPSK	133222	1RB#0	22.75	17.45	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.17	17.87	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.64	17.34	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.02	16.72	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.02	16.72	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.90	16.6	36.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.93	16.63	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.18	17.88	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.06	17.76	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.76	17.46	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.03	16.73	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.87	16.57	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.82	16.52	36.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.92	16.62	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.62	17.32	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.01	17.71	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.55	17.25	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.95	16.65	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.86	16.56	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.77	16.47	36.98	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.86	16.56	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.66	16.36	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.50	16.2	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.57	16.27	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	21.00	15.7	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.85	15.55	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.77	15.47	36.98	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.00	15.7	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.65	16.35	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.73	16.43	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.83	16.53	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.87	15.57	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.95	15.65	36.98	PASS



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Band71	20MHz	16QAM	133322	50RB#50	21.04	15.74	36.98	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.99	15.69	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.62	16.32	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.85	16.55	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.57	16.27	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#0	20.93	15.63	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.06	15.76	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.84	15.54	36.98	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.93	15.63	36.98	PASS

Remark:

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

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

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

The conducted Power is measured by Base Station Simulator



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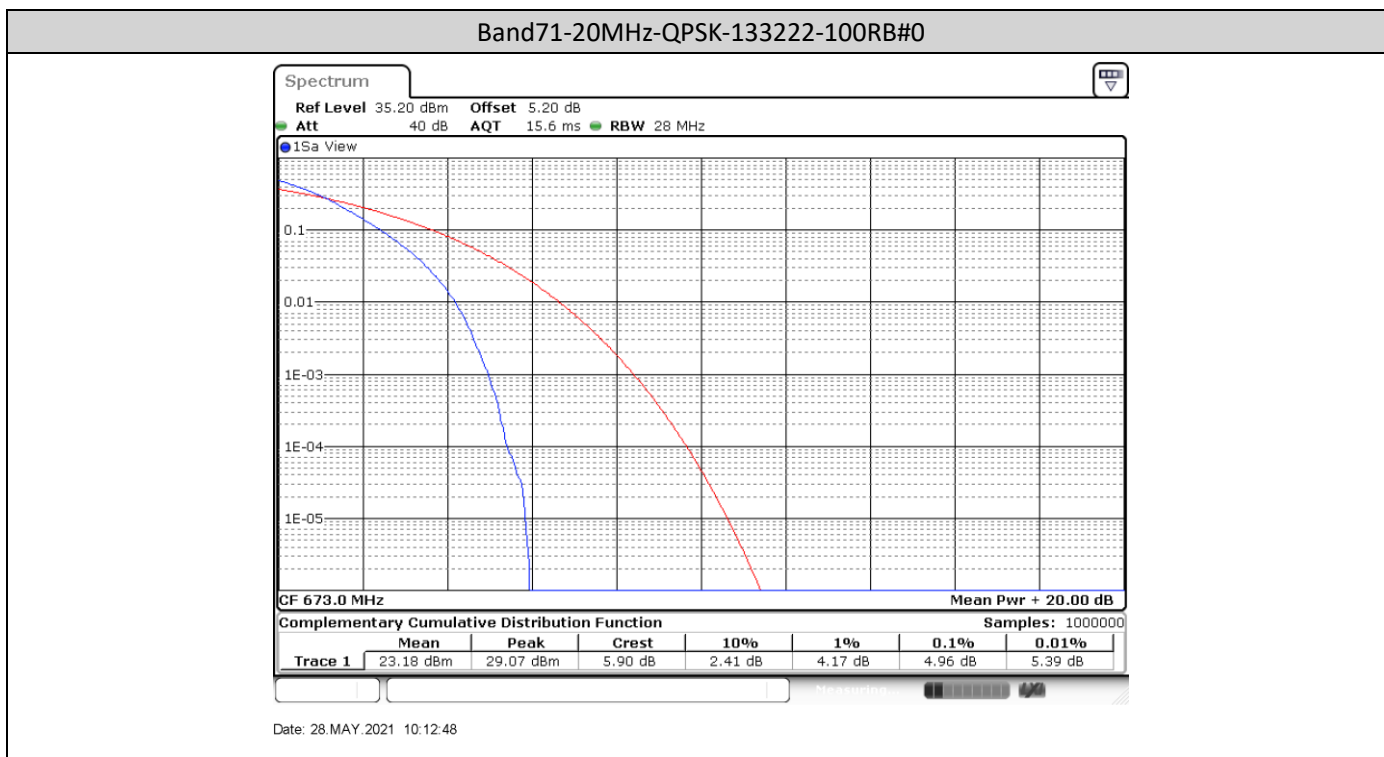


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	4.96	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.87	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.81	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.88	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.86	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.83	13	PASS

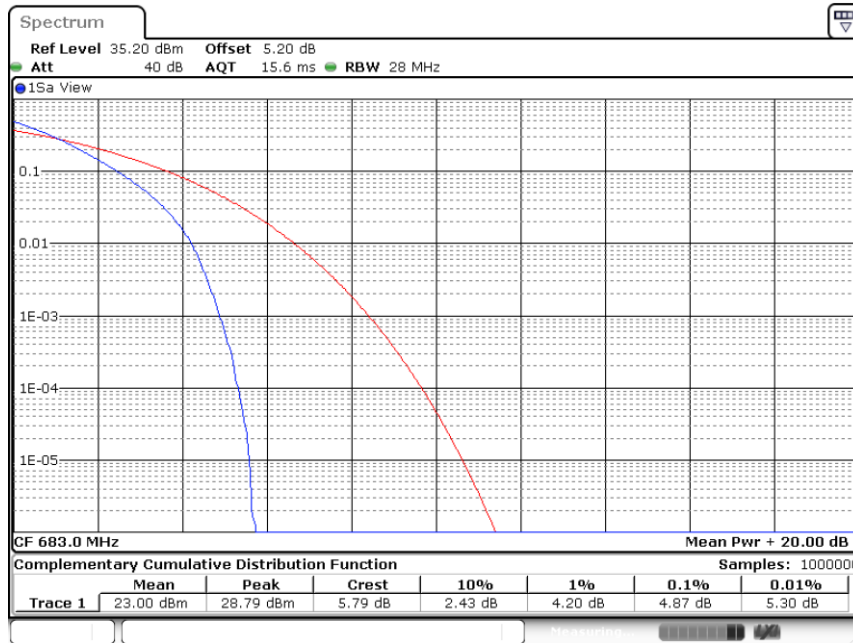
2.2. Test Plots



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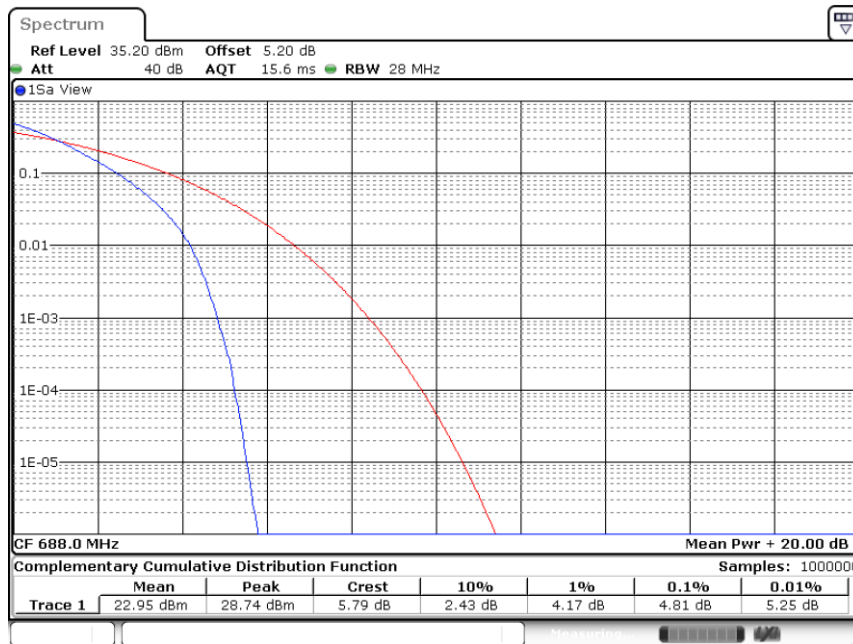
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Band71-20MHz-QPSK-133322-100RB#0



Date: 28.MAY.2021 10:13:11

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



Date: 28.MAY.2021 10:13:34



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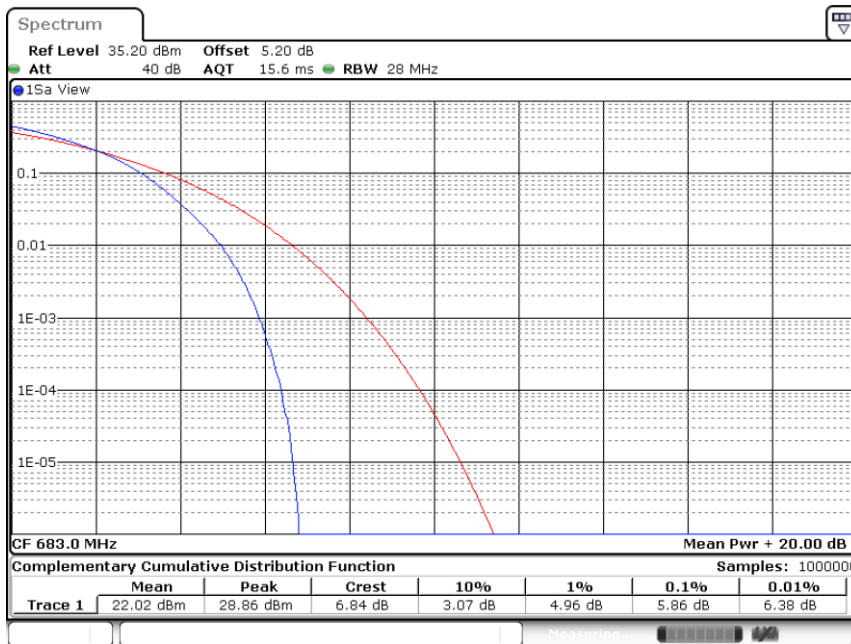
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Band71-20MHz-16QAM-133222-100RB#0



Date: 28.MAY.2021 10:12:59

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



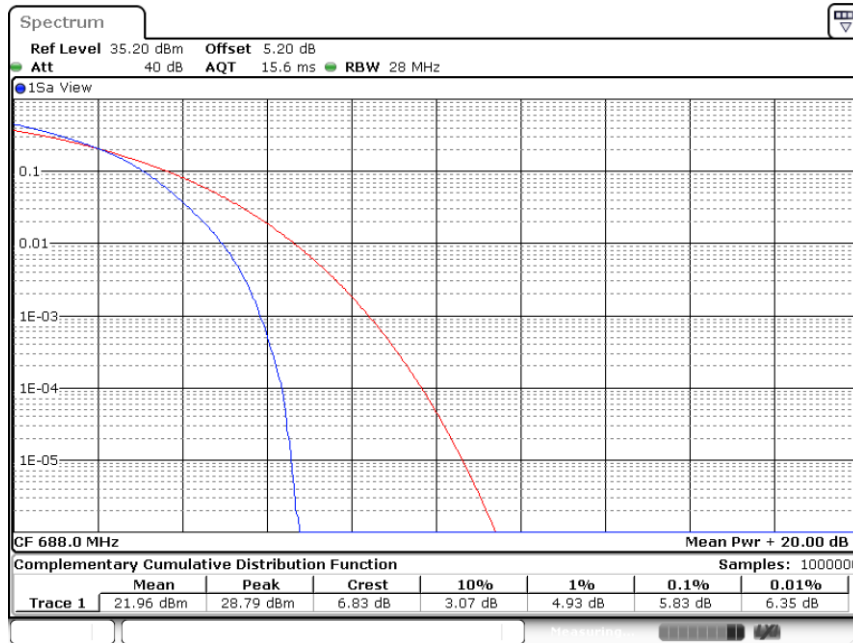
Date: 28.MAY.2021 10:13:22



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



Date: 28.MAY.2021 10:13:45

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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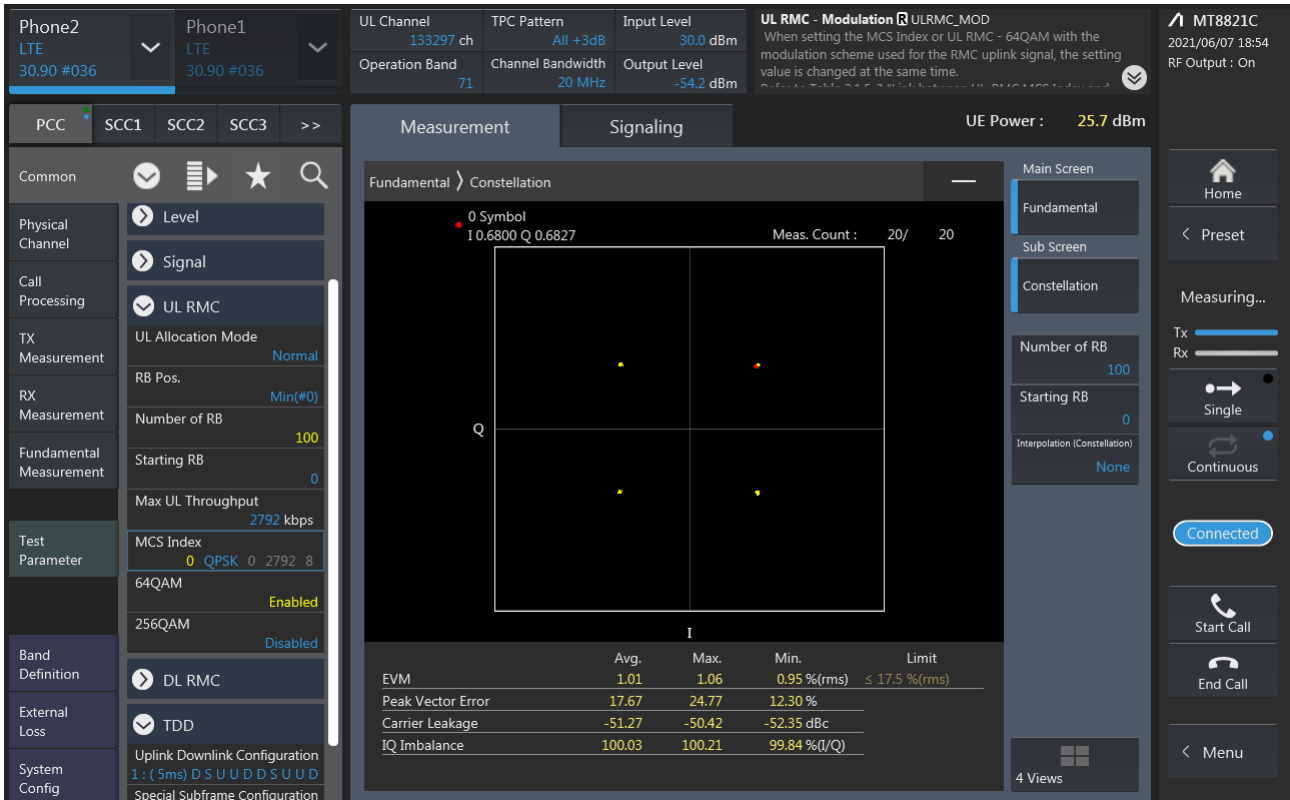
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

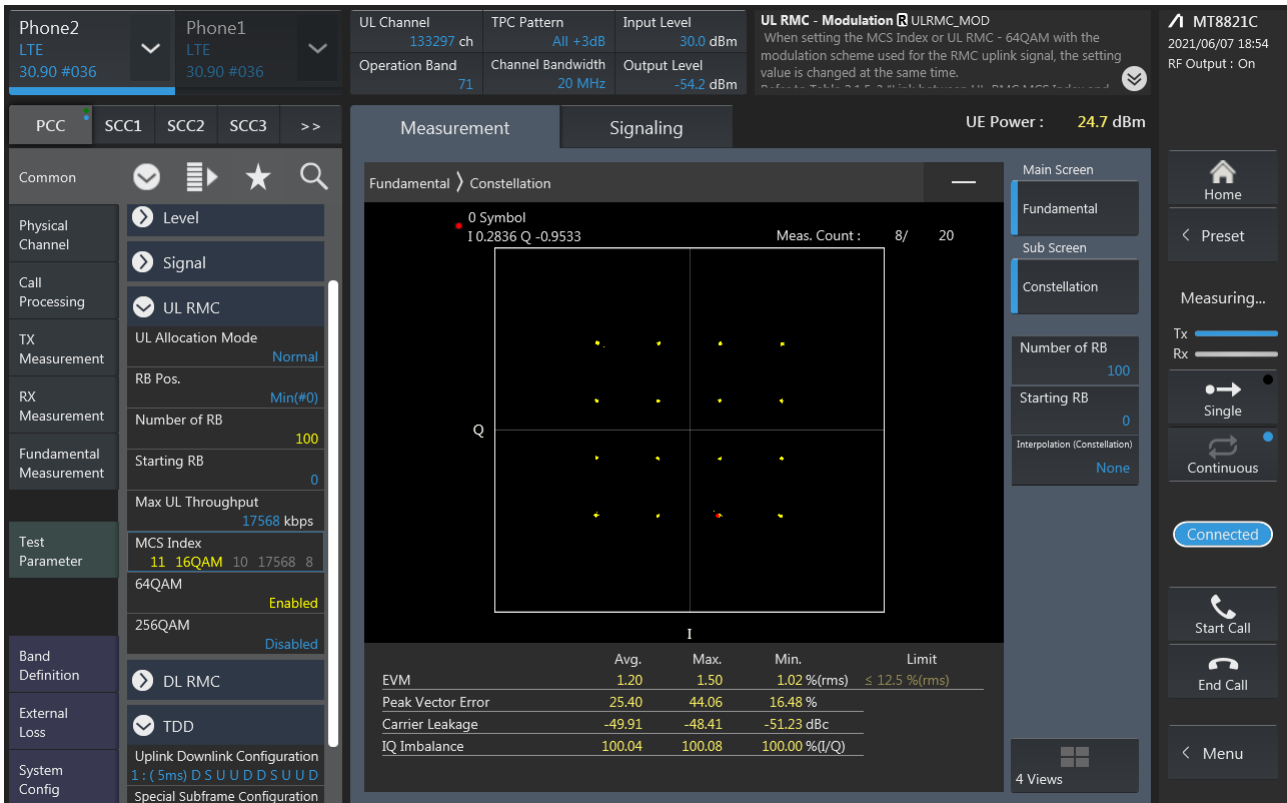
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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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	4.930	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.920	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	4.950	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.486	4.960	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.486	4.960	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.680	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.931	9.720	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.911	9.740	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.911	9.720	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.931	9.740	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.931	9.800	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.427	14.760	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.457	14.700	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.427	14.730	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.397	14.730	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.457	14.730	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.427	14.700	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.822	19.360	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.782	19.280	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.822	19.320	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.822	19.240	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.782	19.360	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.782	19.360	PASS



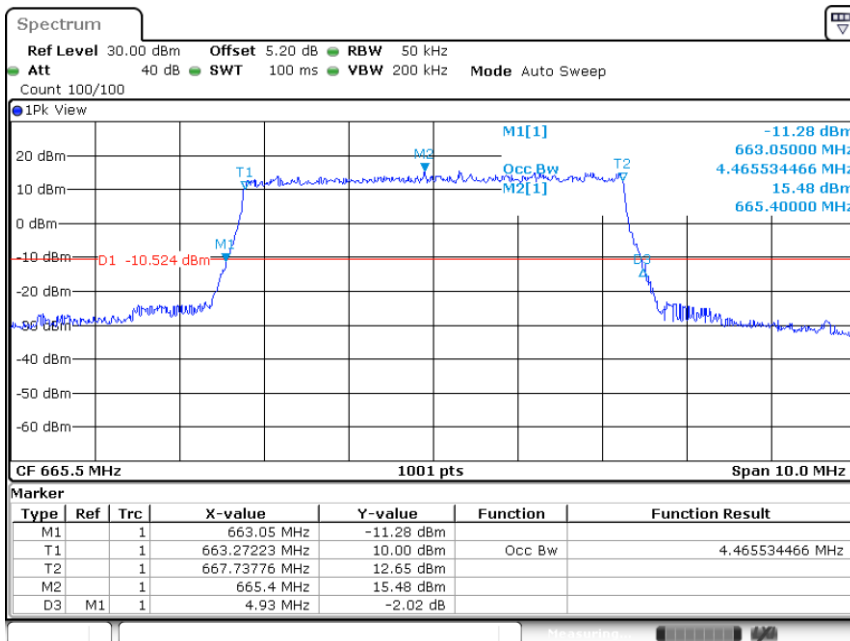
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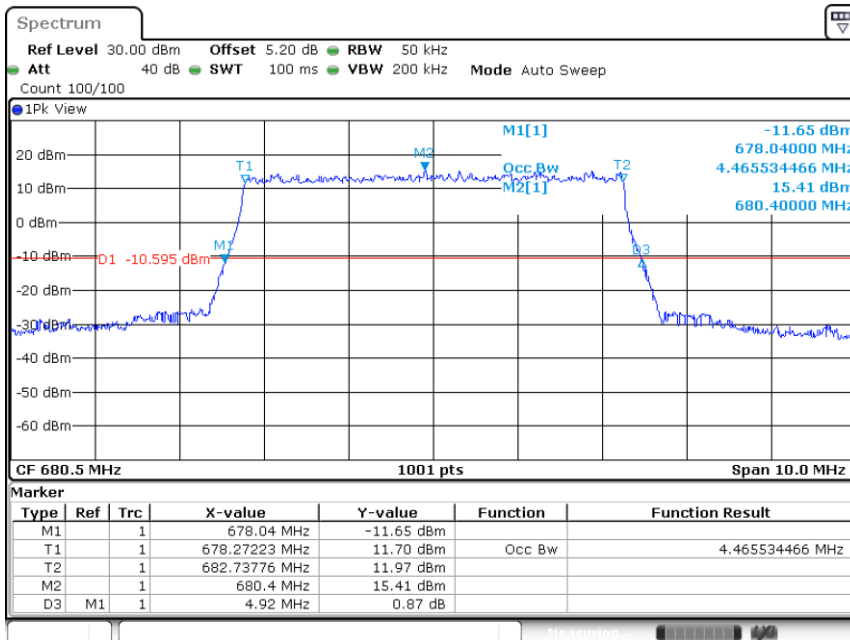
4.2. Test Plots

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



Date: 28.MAY.2021 09:49:19

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

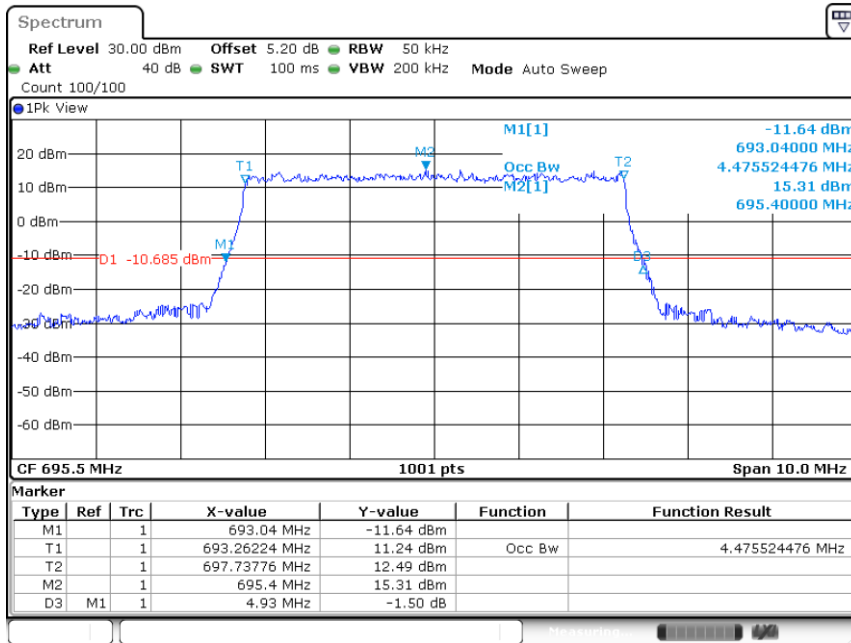


Date: 28.MAY.2021 09:49:59



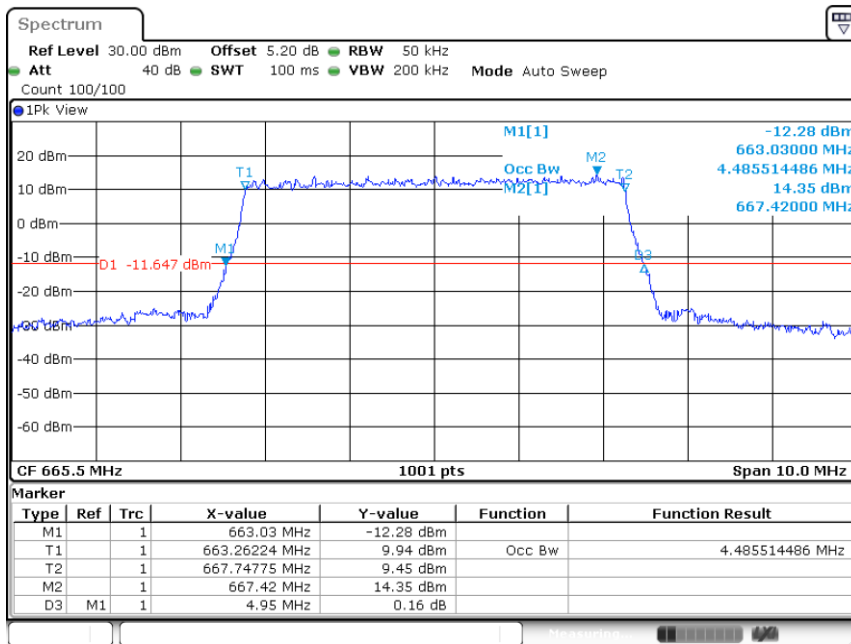
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Band71-5MHz-QPSK-133447-25RB#0-4.476



Date: 28.MAY.2021 09:50:39

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



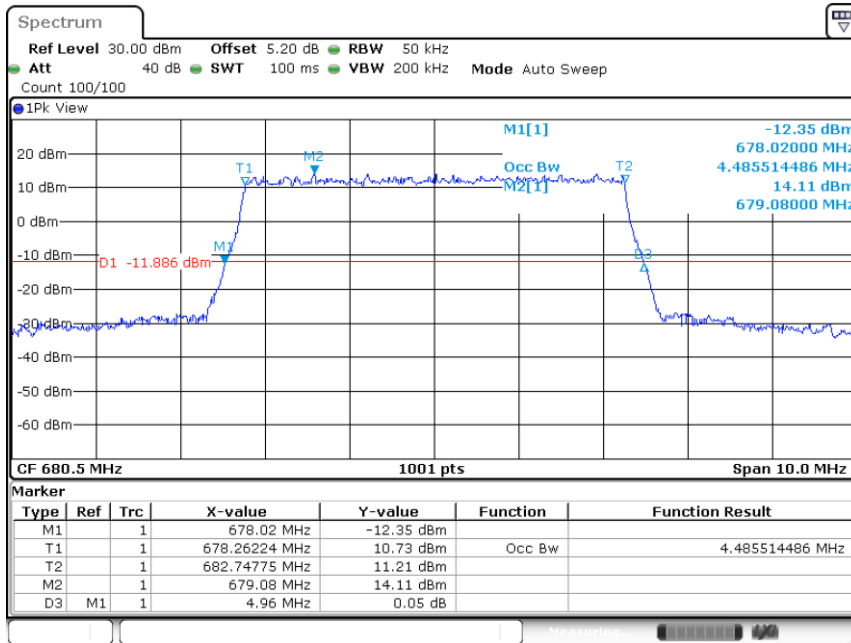
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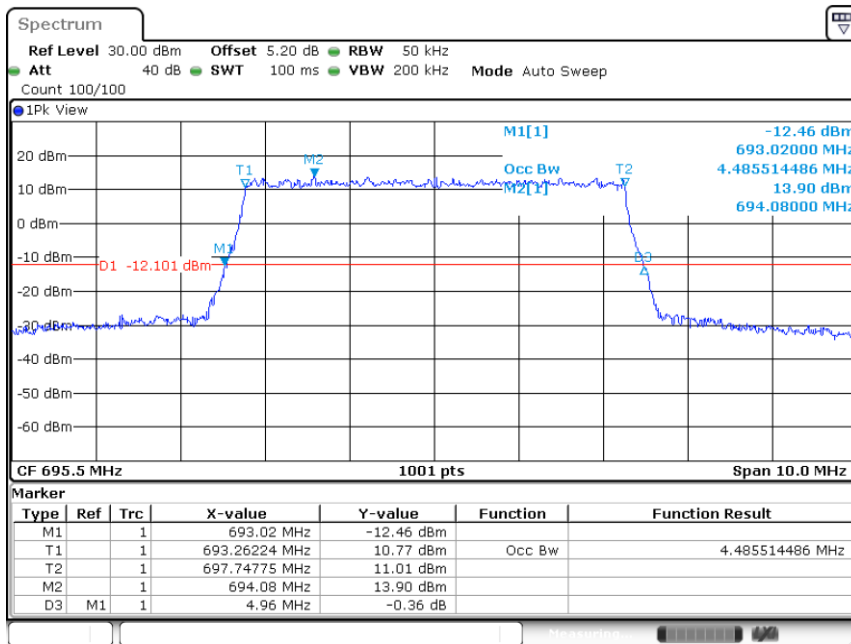


Band71-5MHz-16QAM-133297-25RB#0-4.486



Date: 28.MAY.2021 09:50:19

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

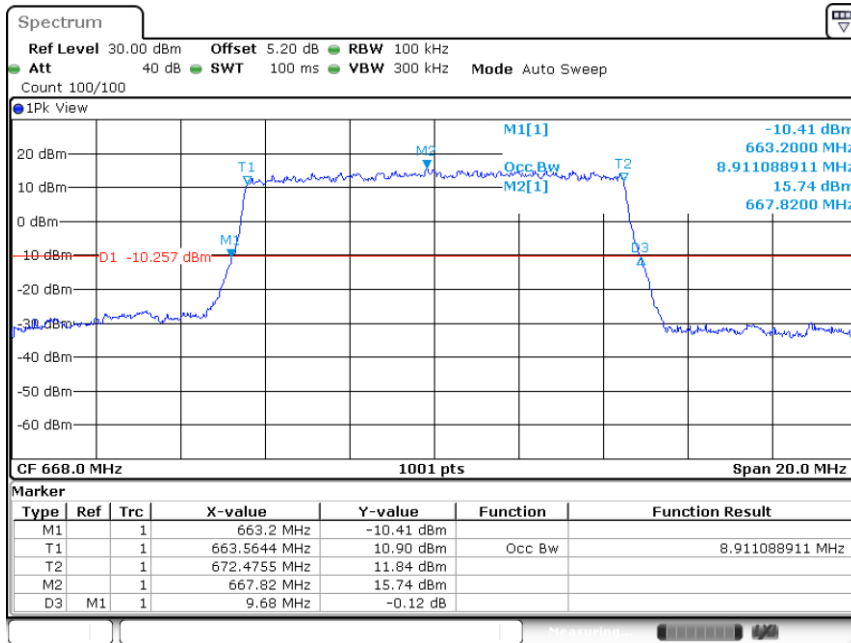


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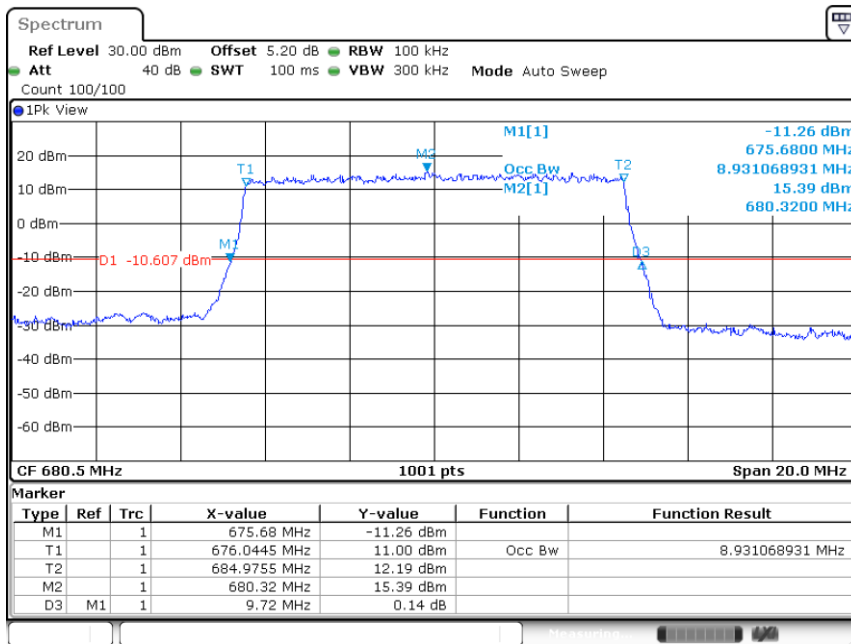
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Band71-10MHz-QPSK-133172-50RB#0-8.911



Date: 28.MAY.2021 09:51:25

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

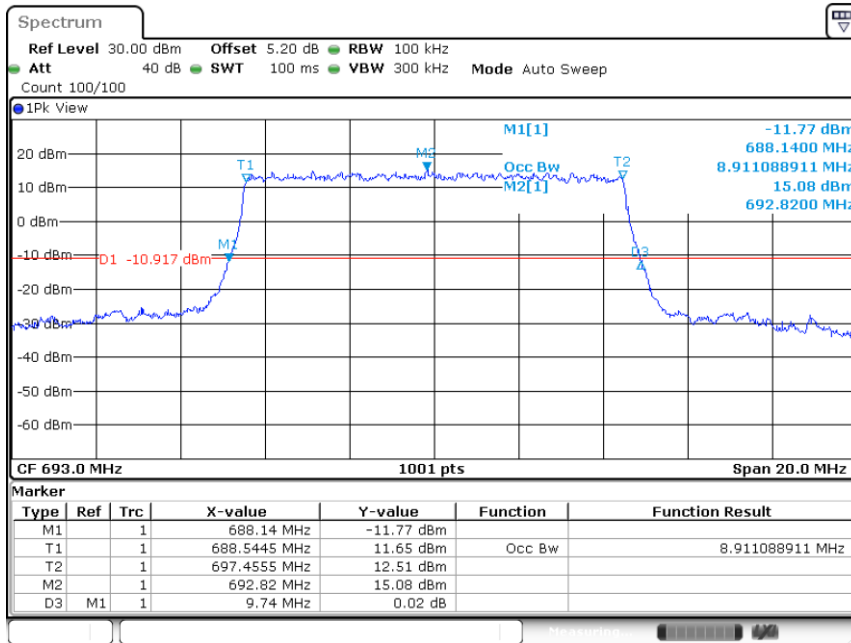


Date: 28.MAY.2021 09:52:04

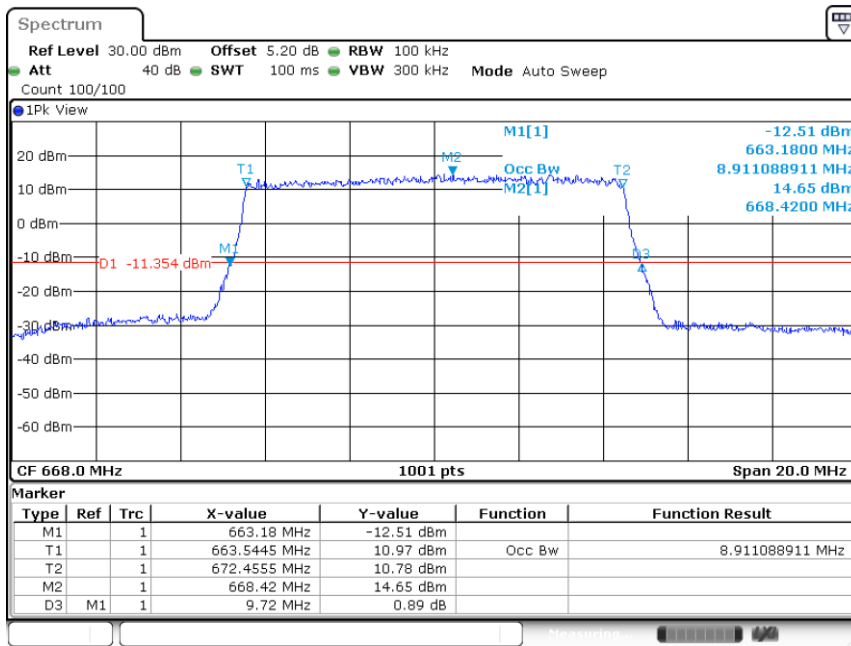


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Band71-10MHz-QPSK-133422-50RB#0-8.911

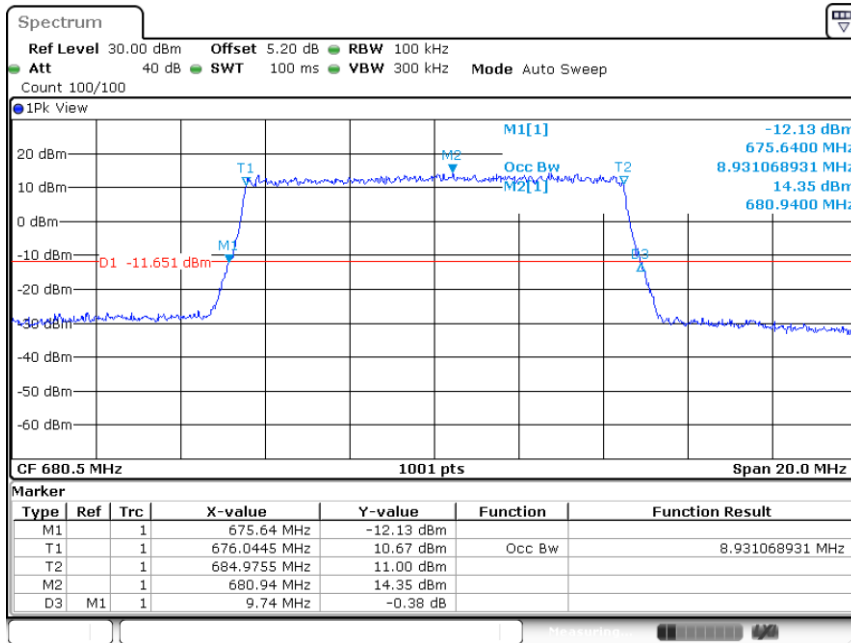


Band71-10MHz-16QAM-133172-50RB#0-8.911



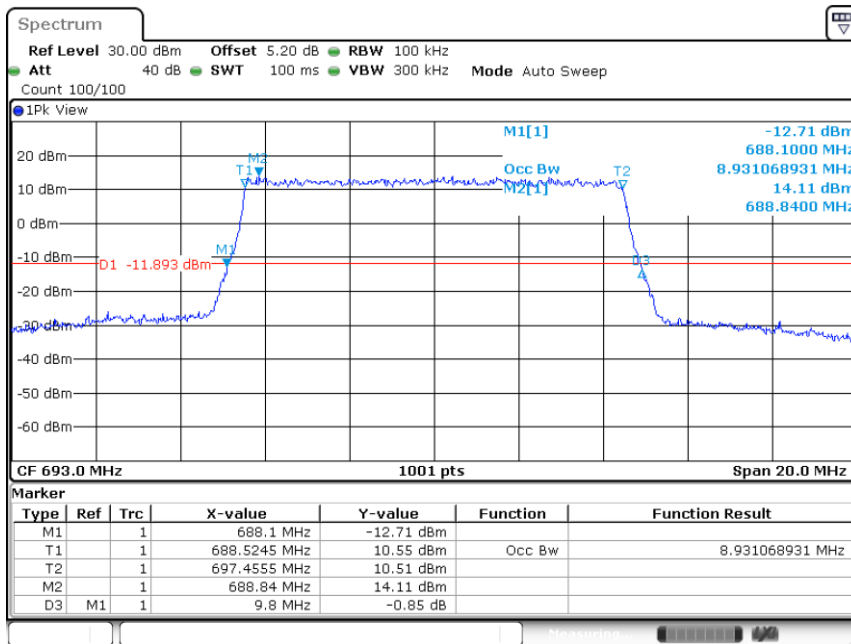
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Band71-10MHz-16QAM-133297-50RB#0-8.931



Date: 28.MAY.2021 09:52:24

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

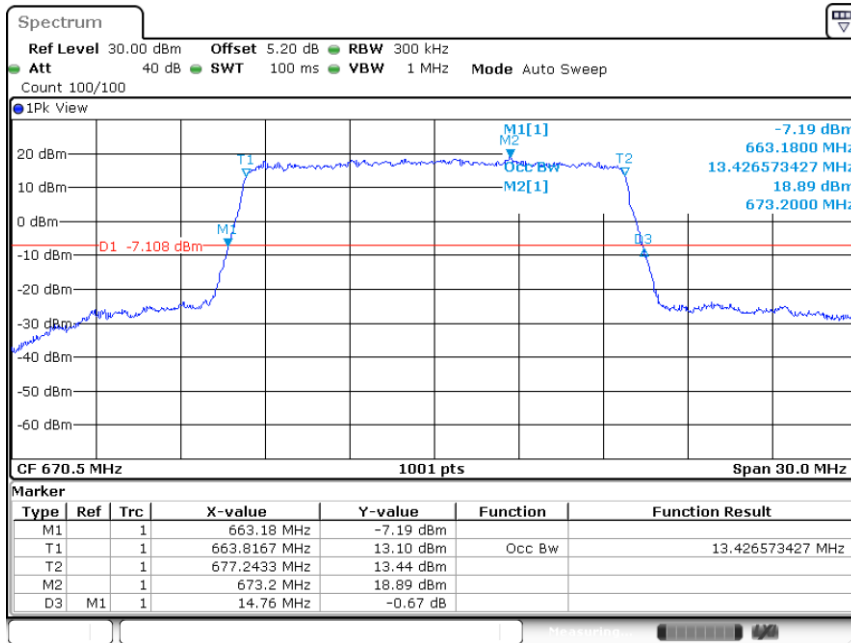


Date: 28.MAY.2021 09:53:04



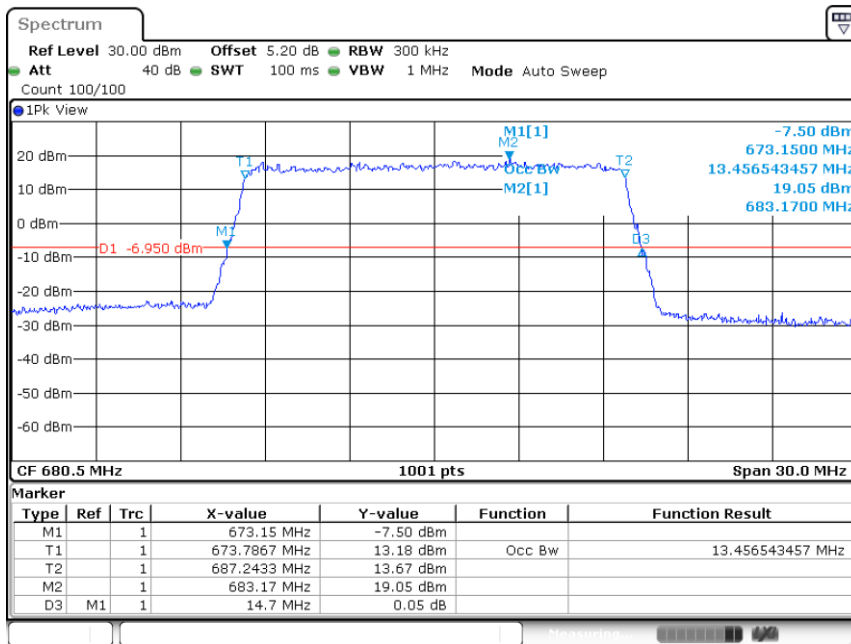
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Band71-15MHz-QPSK-133197-75RB#0-13.427



Date: 28.MAY.2021 09:53:30

Band71-15MHz-QPSK-133297-75RB#0-13.457

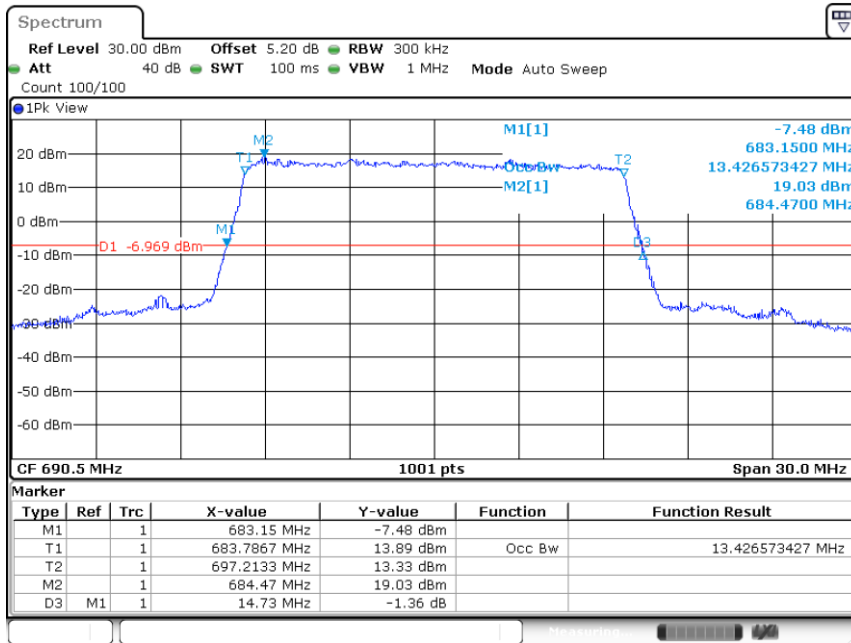


Date: 28.MAY.2021 09:54:09



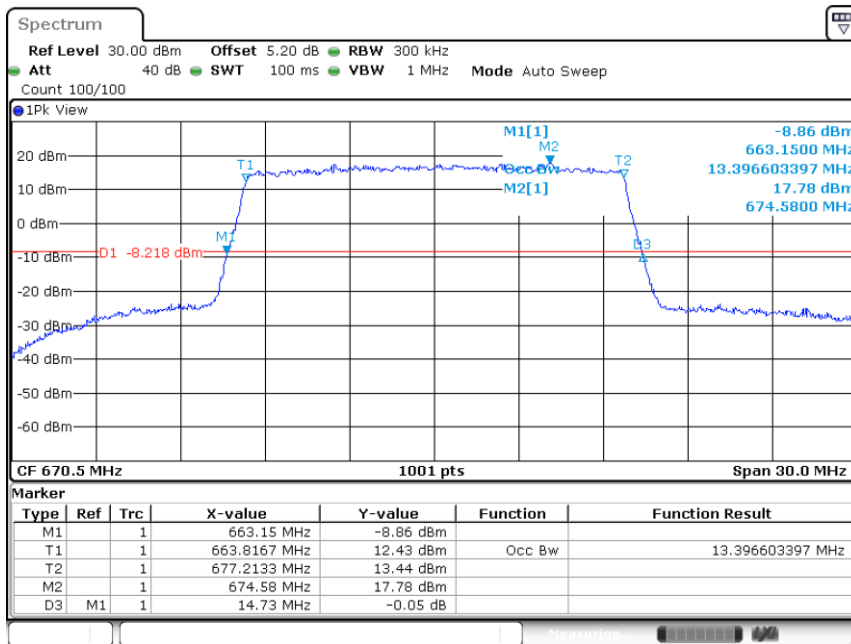
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Band71-15MHz-QPSK-133397-75RB#0-13.427



Date: 28.MAY.2021 09:54:49

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

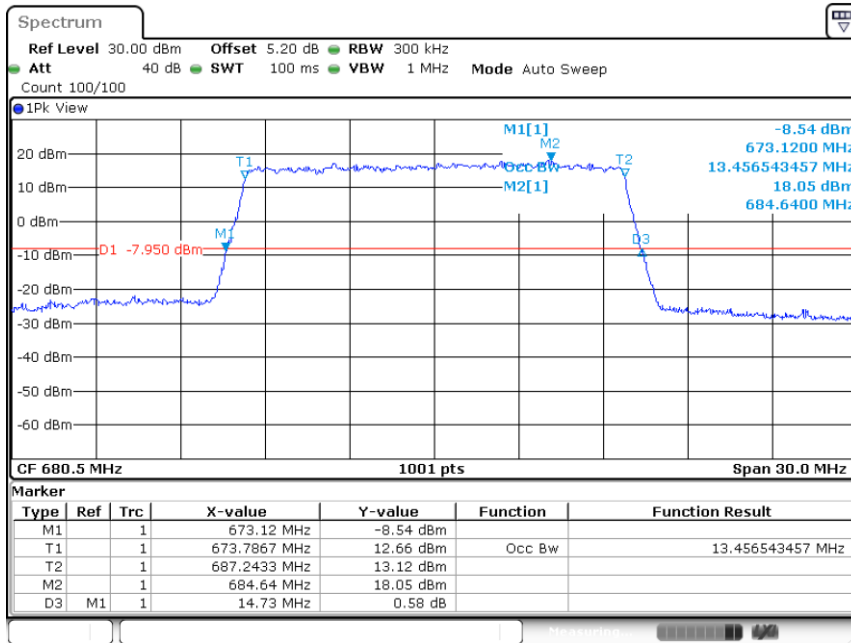


Date: 28.MAY.2021 09:53:49



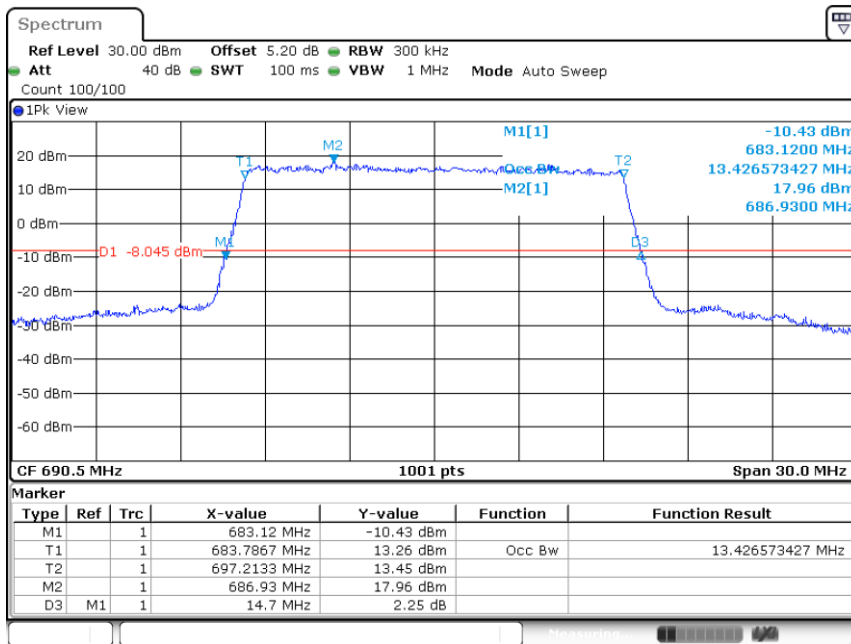
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Band71-15MHz-16QAM-133297-75RB#0-13.457



Date: 28.MAY.2021 09:54:29

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

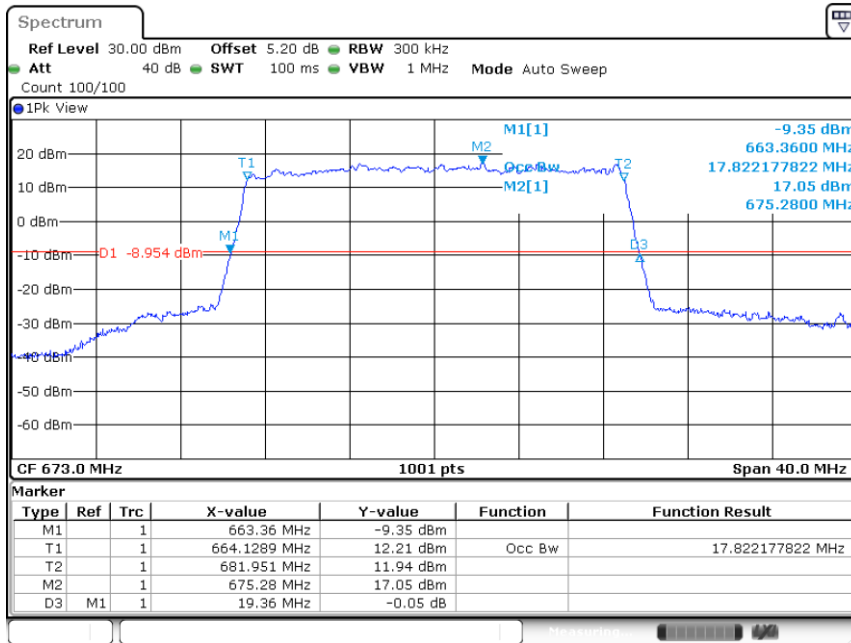


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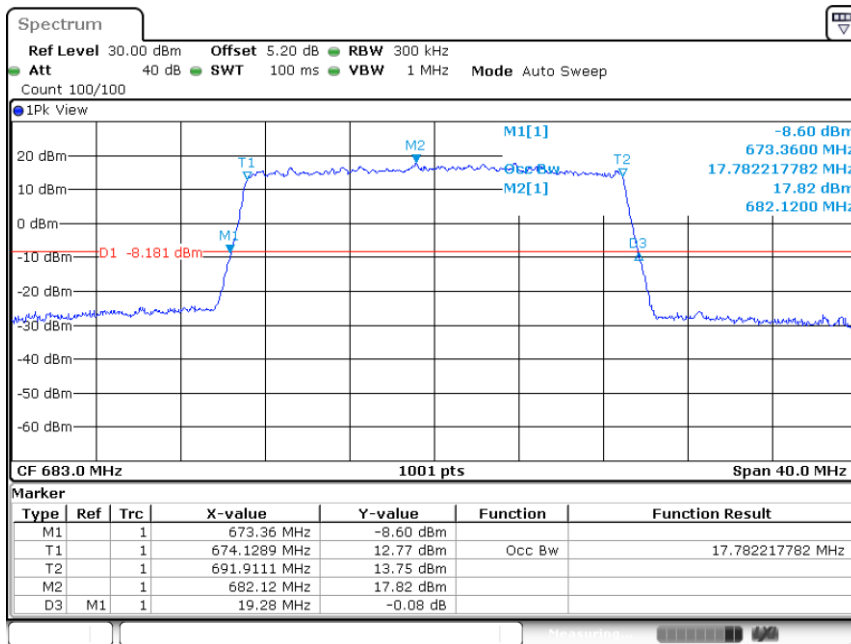
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Band71-20MHz-QPSK-133222-100RB#0-17.822



Date: 28 MAY 2021 09:55:35

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

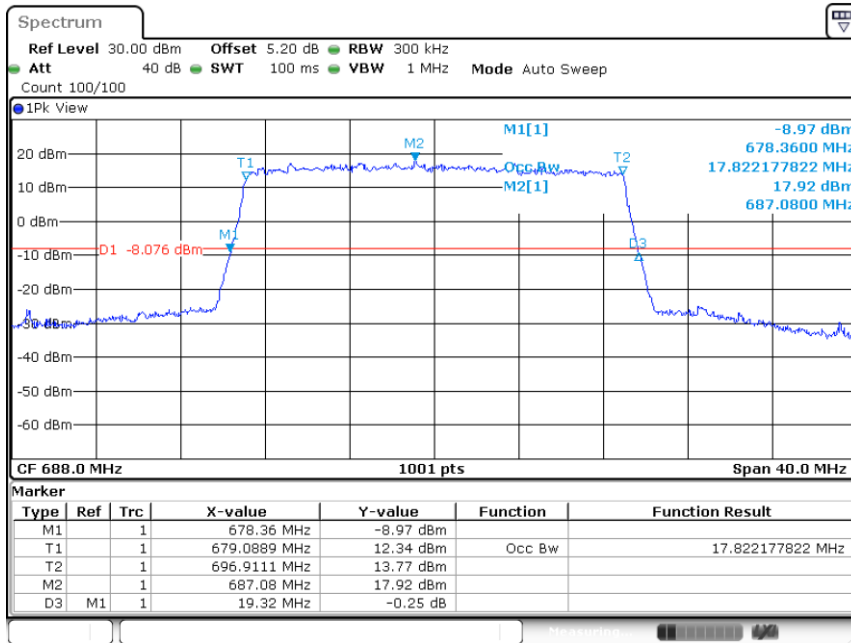


Date: 28 MAY 2021 09:56:15



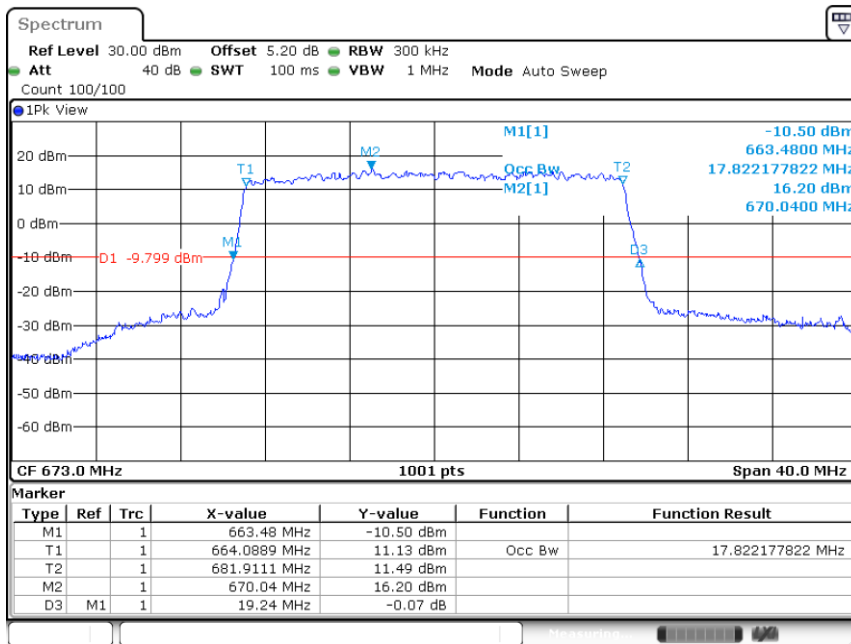
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Band71-20MHz-QPSK-133372-100RB#0-17.822



Date: 28.MAY.2021 09:56:55

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

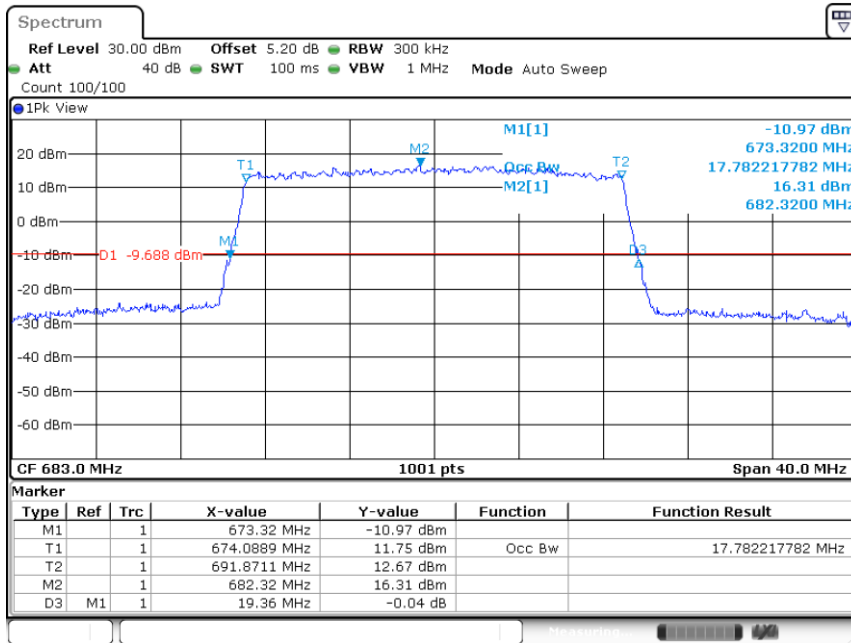


Date: 28.MAY.2021 09:55:55



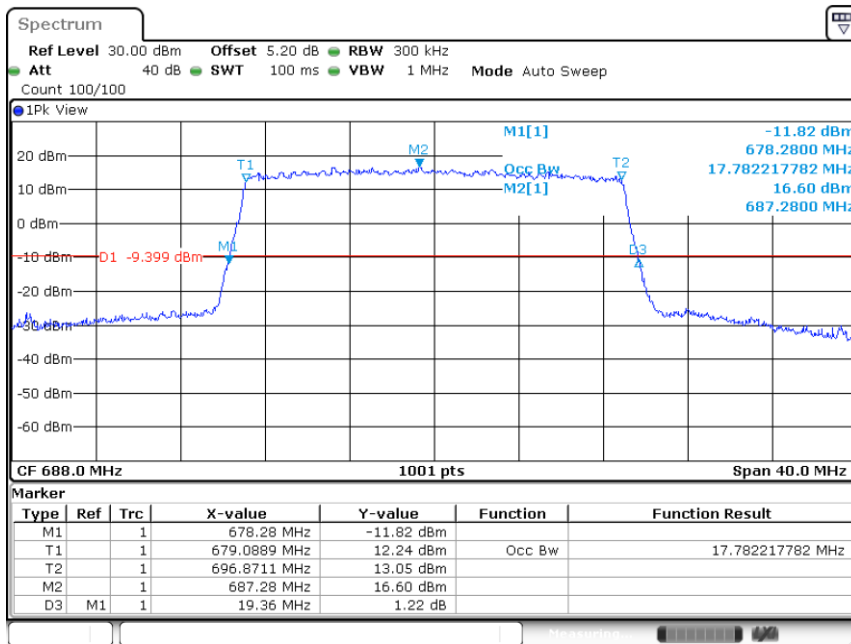
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Band71-20MHz-16QAM-133322-100RB#0-17.782



Date: 28.MAY.2021 09:56:35

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



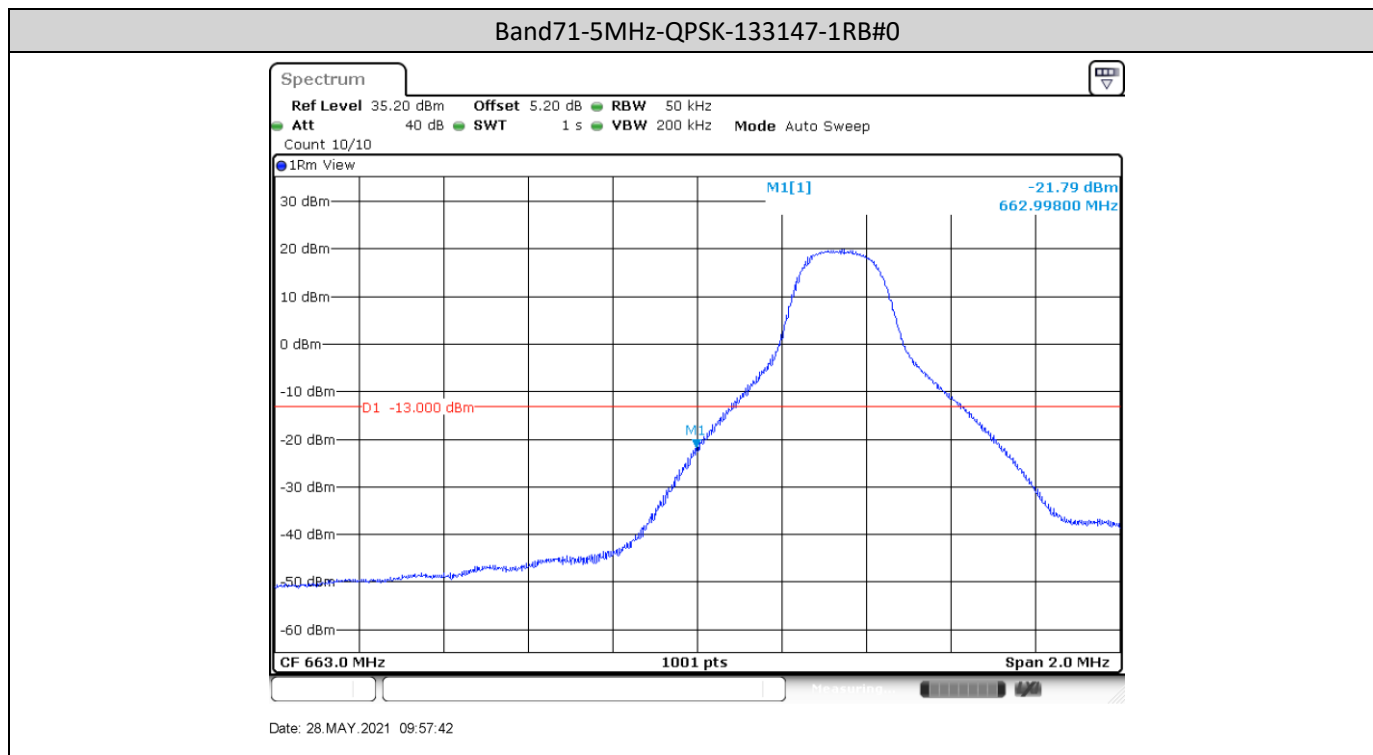
Date: 28.MAY.2021 09:57:15



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5. Band Edge Compliance

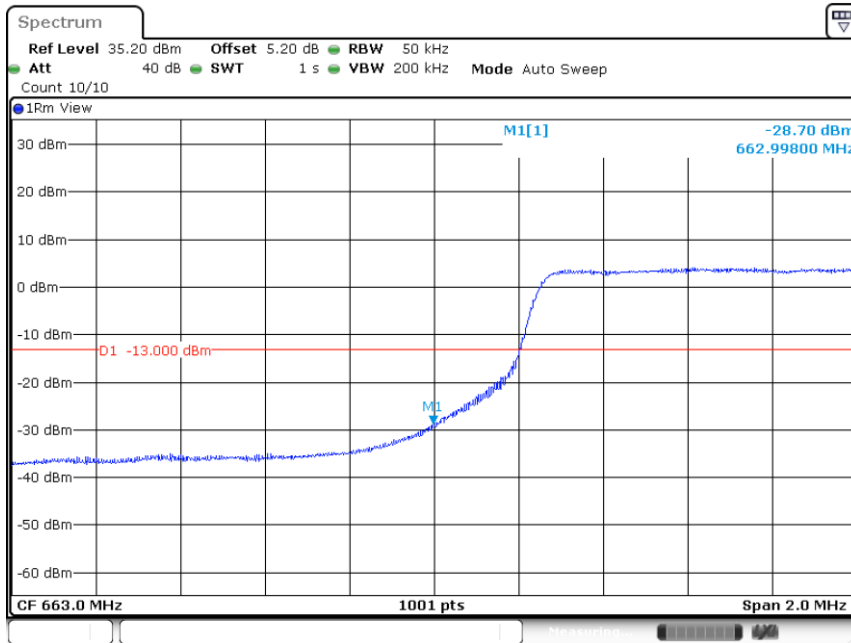
5.1. Test Plots



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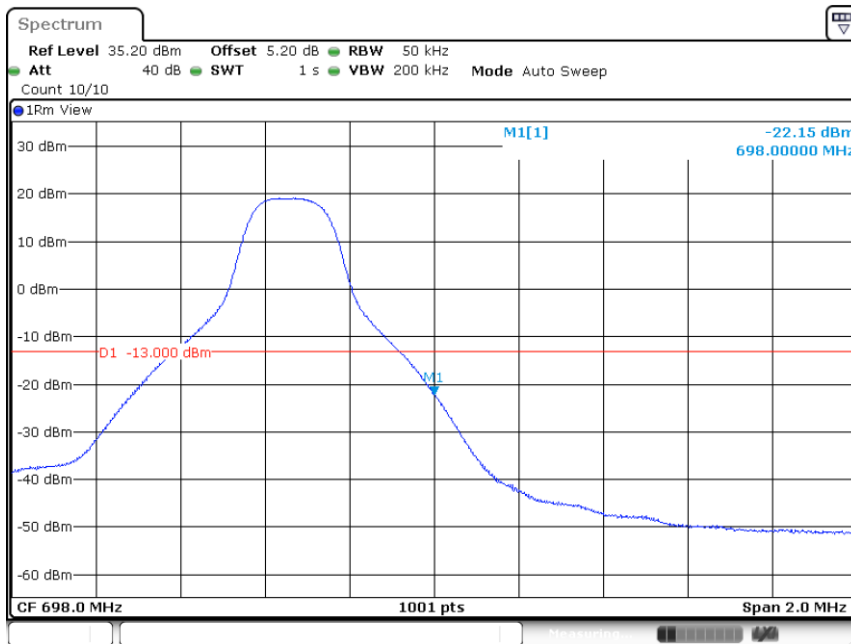
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Band71-5MHz-QPSK-133147-25RB#0



Date: 28.MAY.2021 09:58:23

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



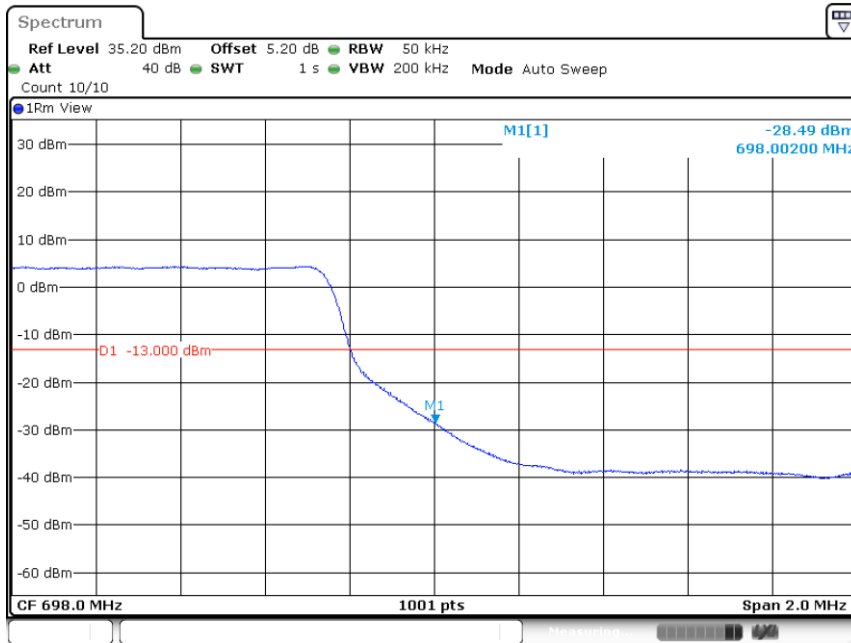
Date: 28.MAY.2021 09:59:09



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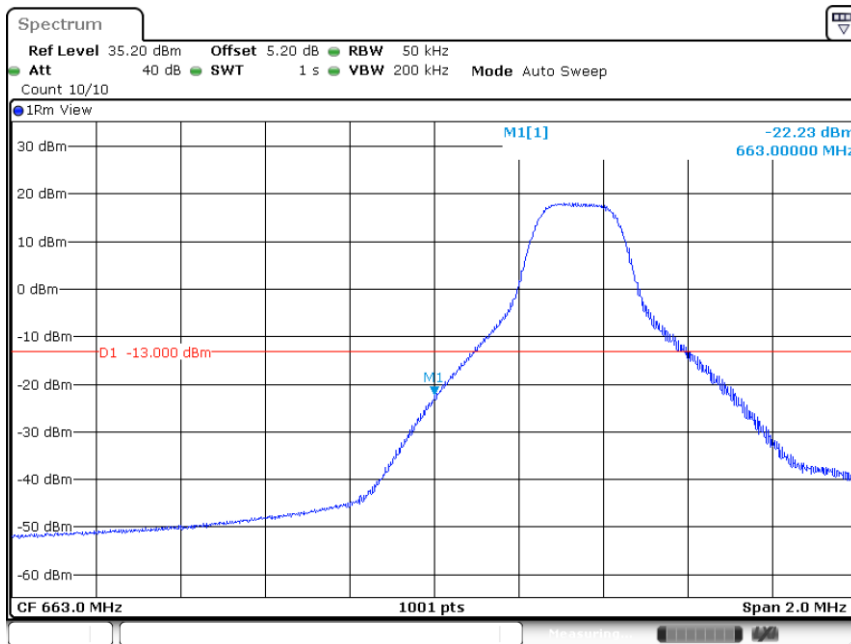
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Band71-5MHz-QPSK-133447-25RB#0



Date: 28.MAY.2021 09:59:50

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

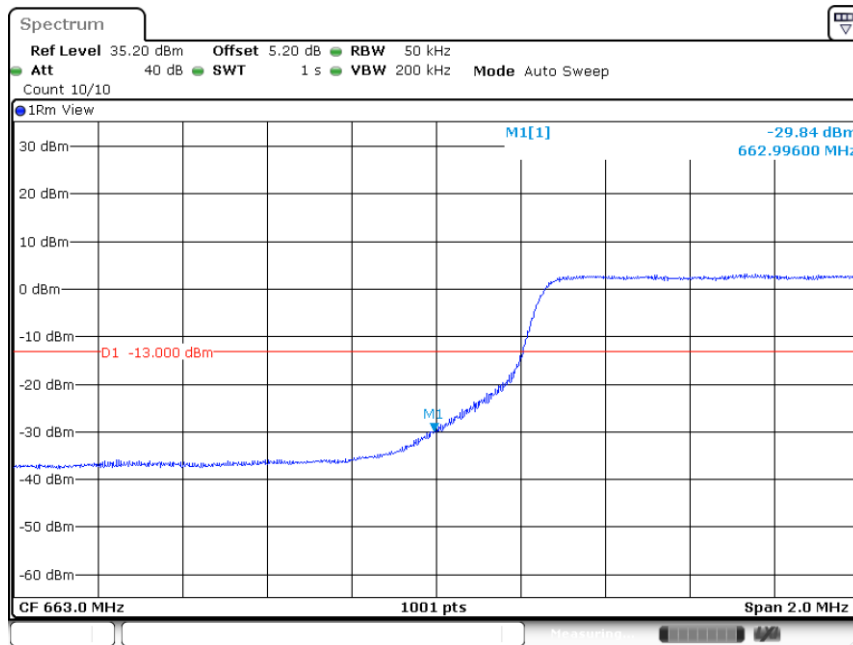


Date: 28.MAY.2021 09:58:02



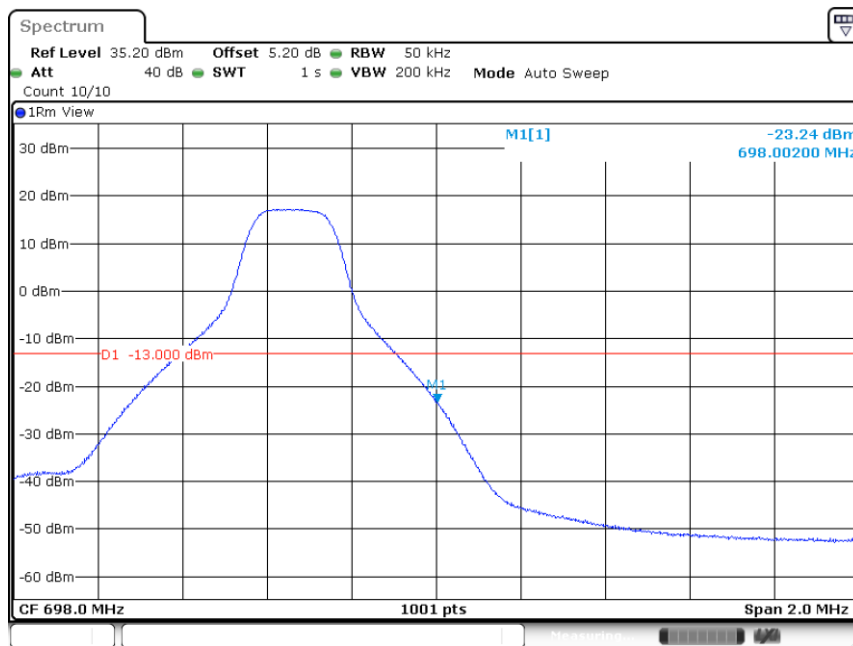
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Band71-5MHz-16QAM-133147-25RB#0



Date: 28.MAY.2021 09:58:43

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

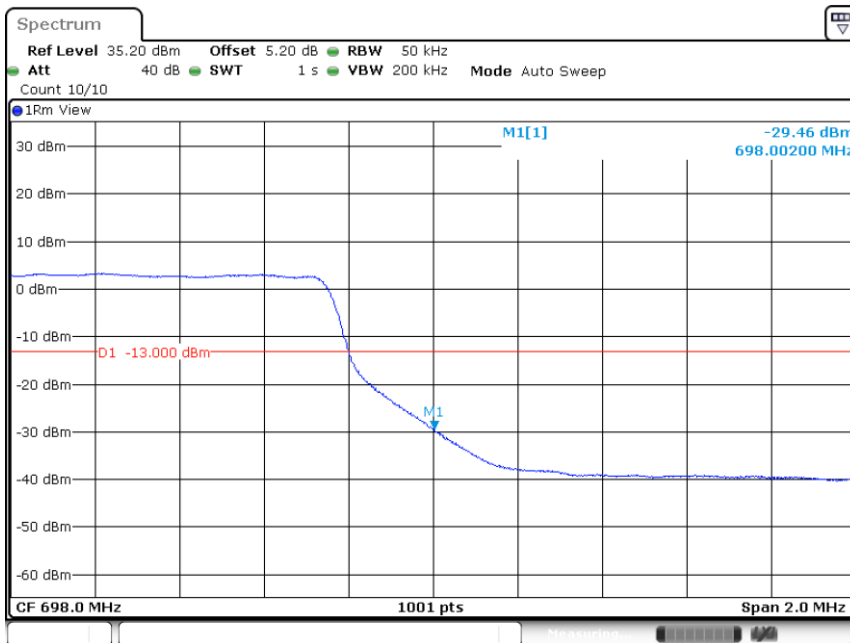


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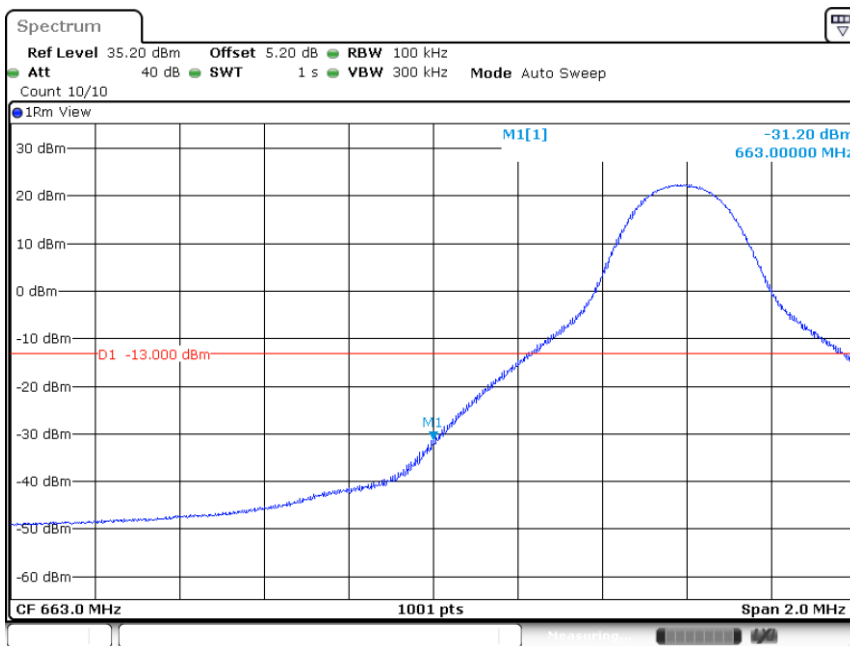
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Band71-5MHz-16QAM-133447-25RB#0



Date: 28.MAY.2021 10:00:11

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



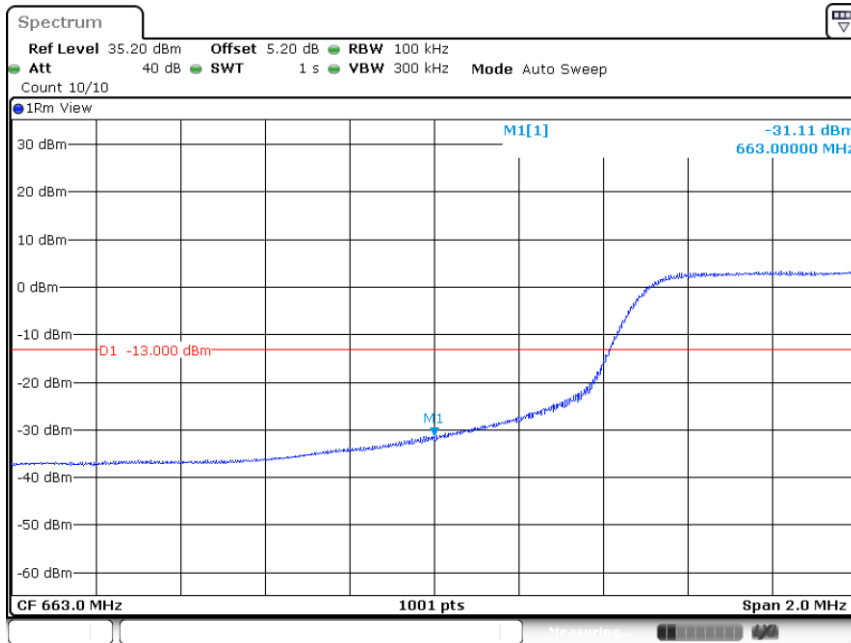
Date: 28.MAY.2021 10:00:37



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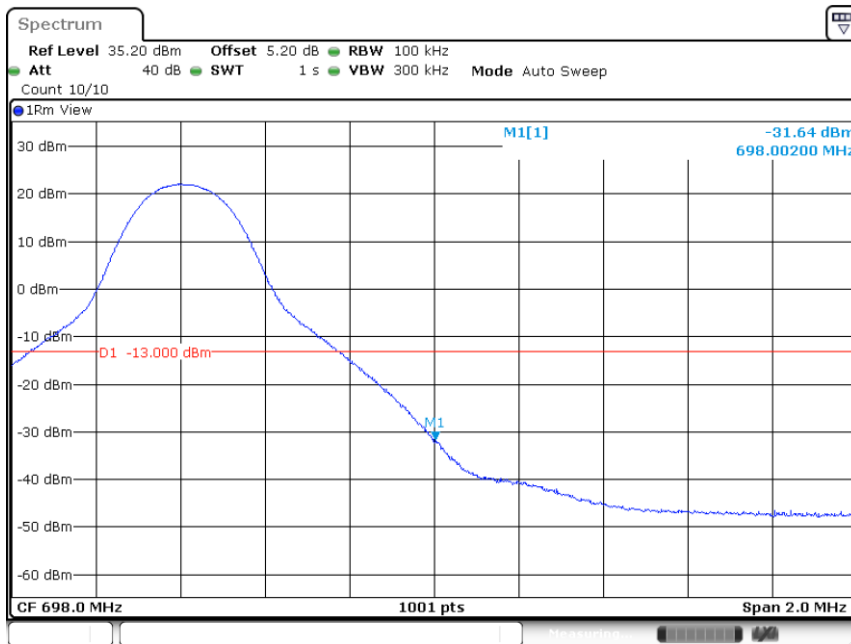
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Band71-10MHz-QPSK-133172-50RB#0



Date: 28.MAY.2021 10:01:18

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



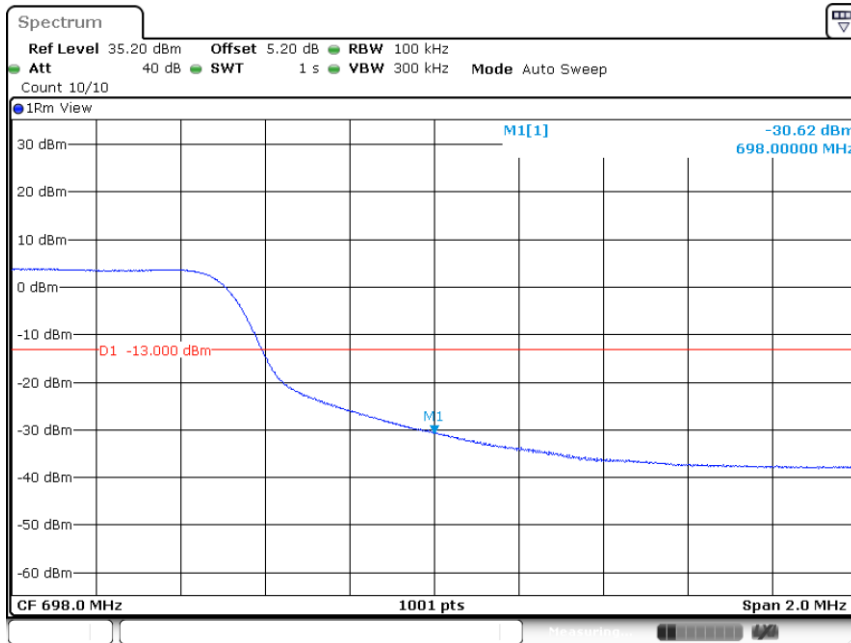
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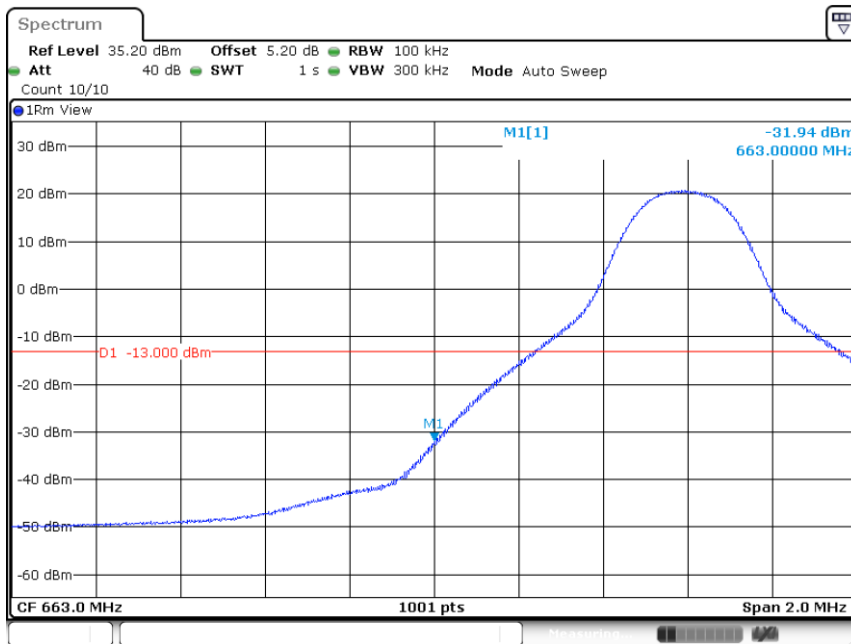
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Band71-10MHz-QPSK-133422-50RB#0



Date: 28.MAY.2021 10:02:45

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

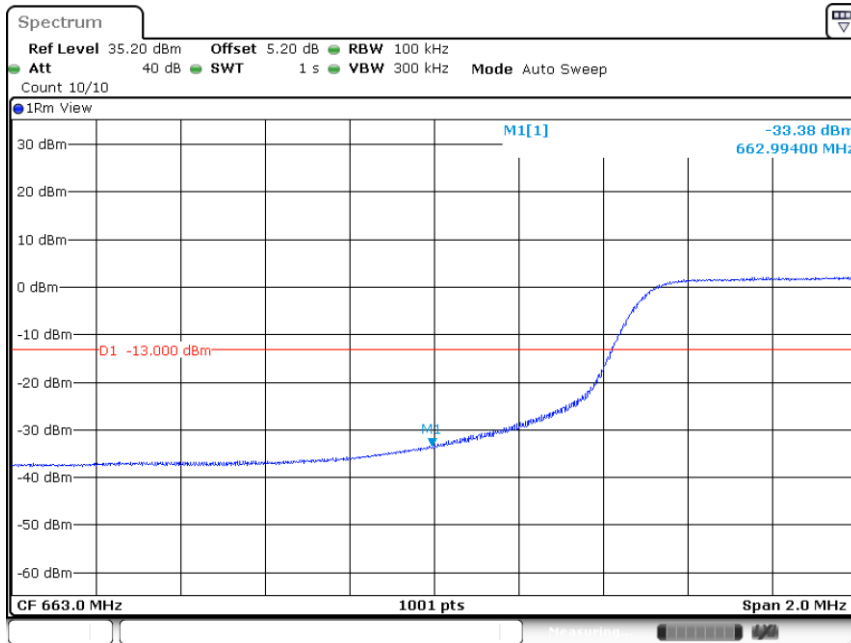


Date: 28.MAY.2021 10:00:58



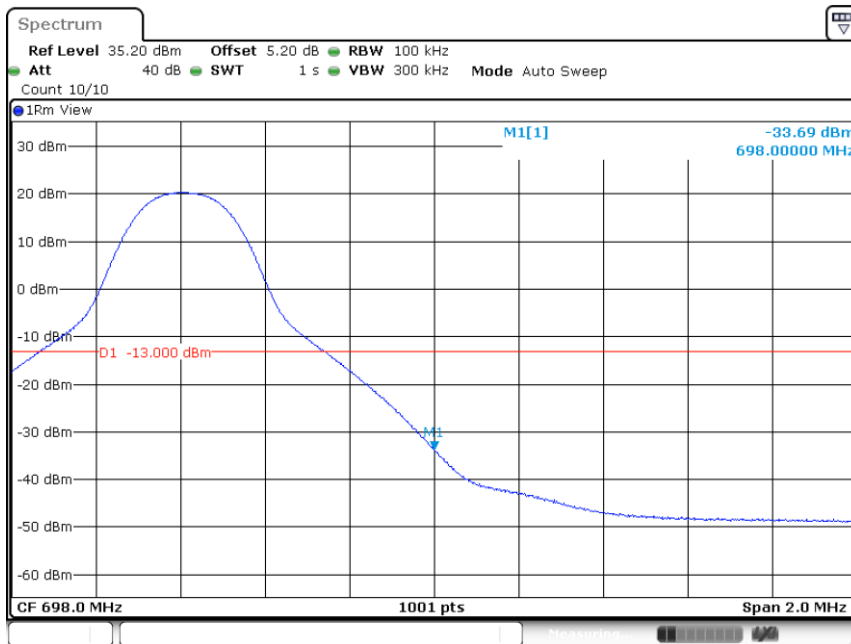
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Band71-10MHz-16QAM-133172-50RB#0



Date: 28.MAY.2021 10:01:39

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

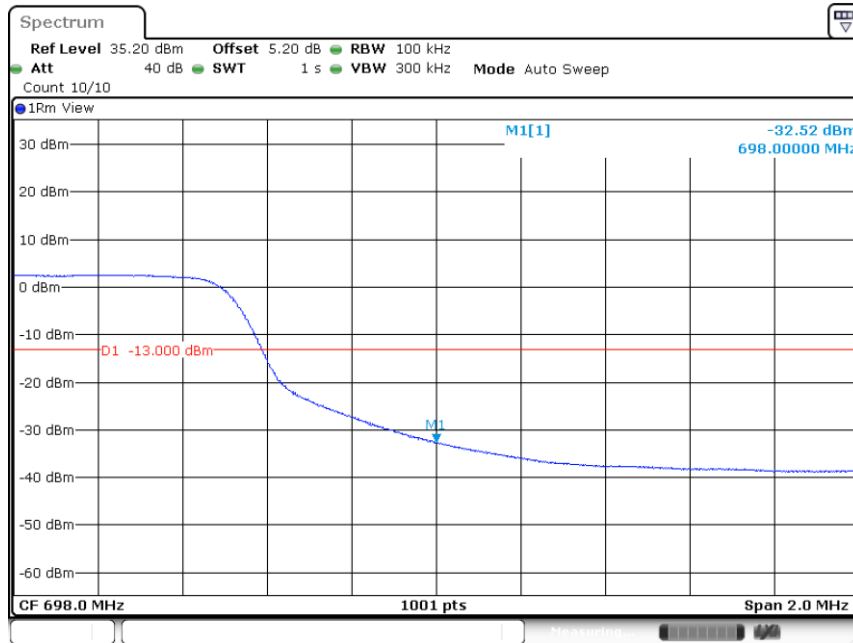


Date: 28.MAY.2021 10:02:25



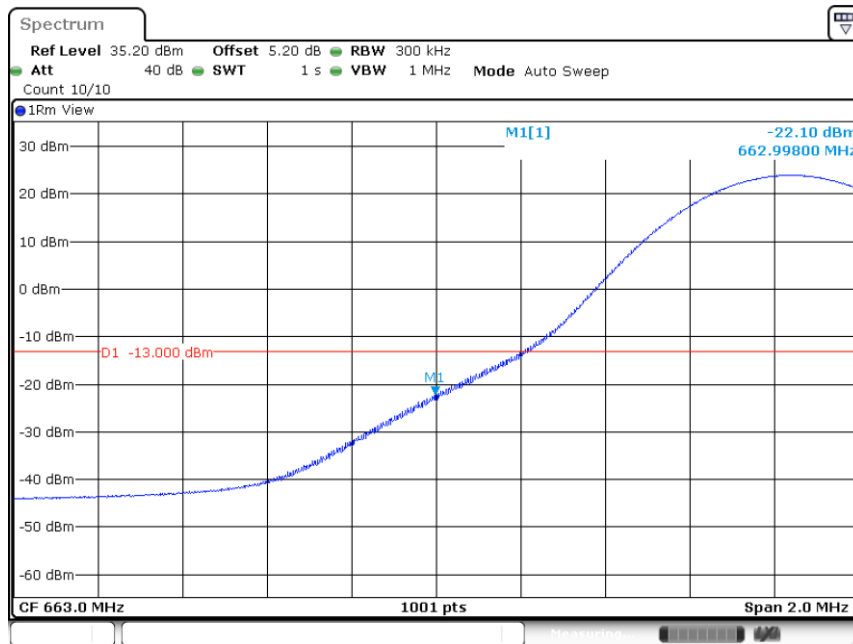
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Band71-10MHz-16QAM-133422-50RB#0



Date: 28.MAY.2021 10:03:06

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

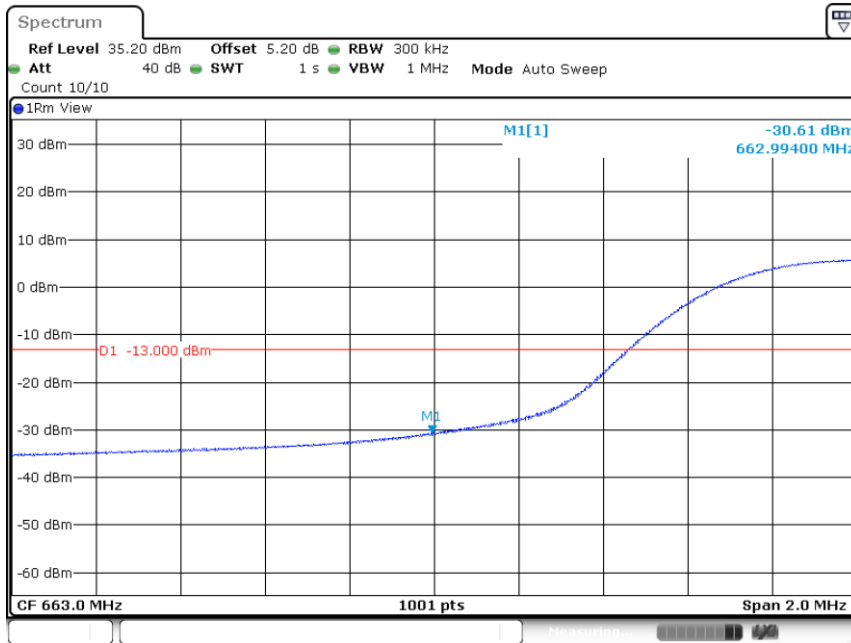


Date: 28.MAY.2021 10:03:33



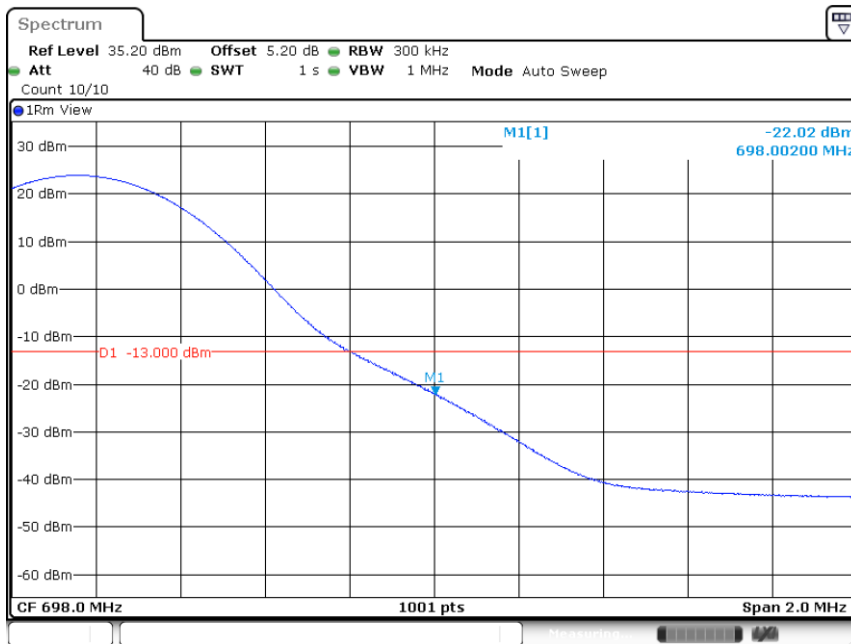
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Band71-15MHz-QPSK-133197-75RB#0



Date: 28.MAY.2021 10:04:14

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



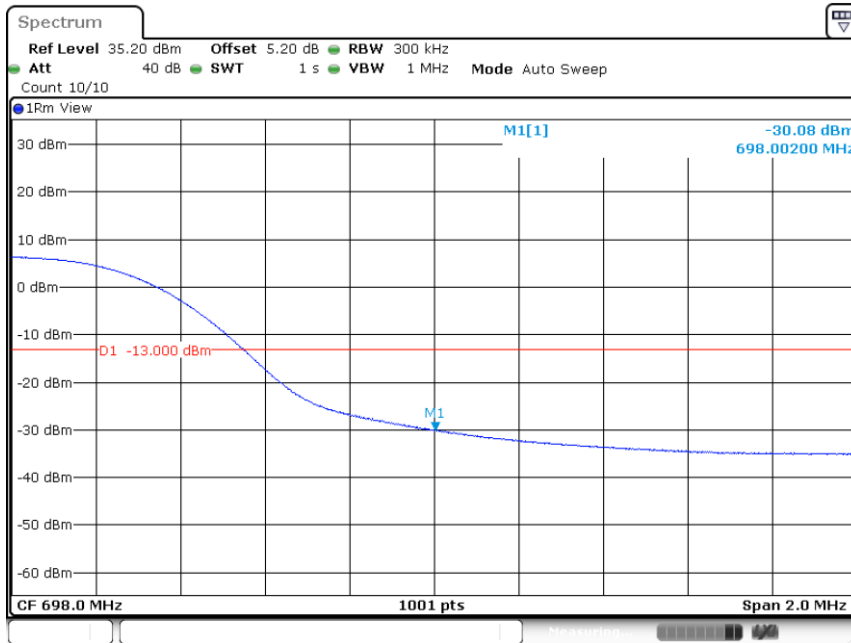
Date: 28.MAY.2021 10:05:00



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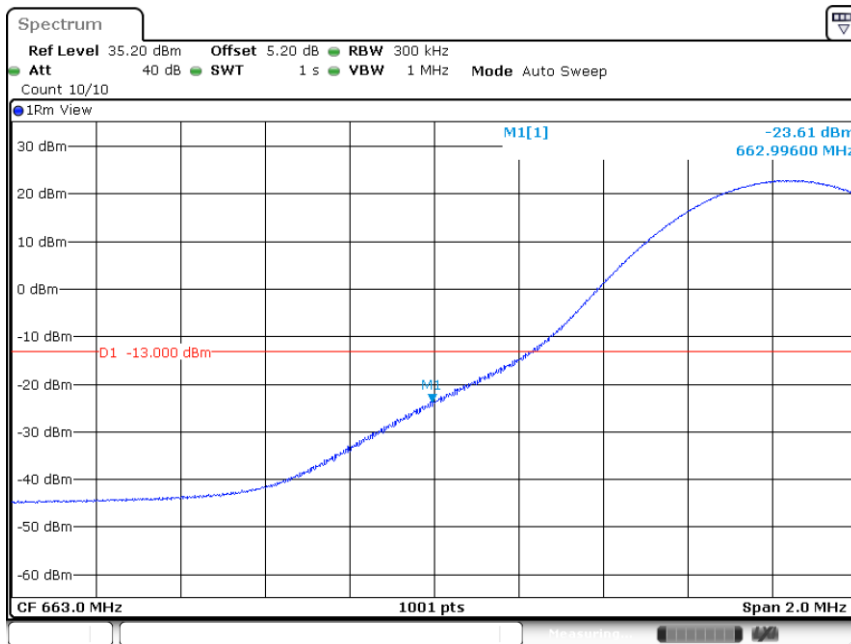
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Band71-15MHz-QPSK-133397-75RB#0



Date: 28.MAY.2021 10:05:41

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

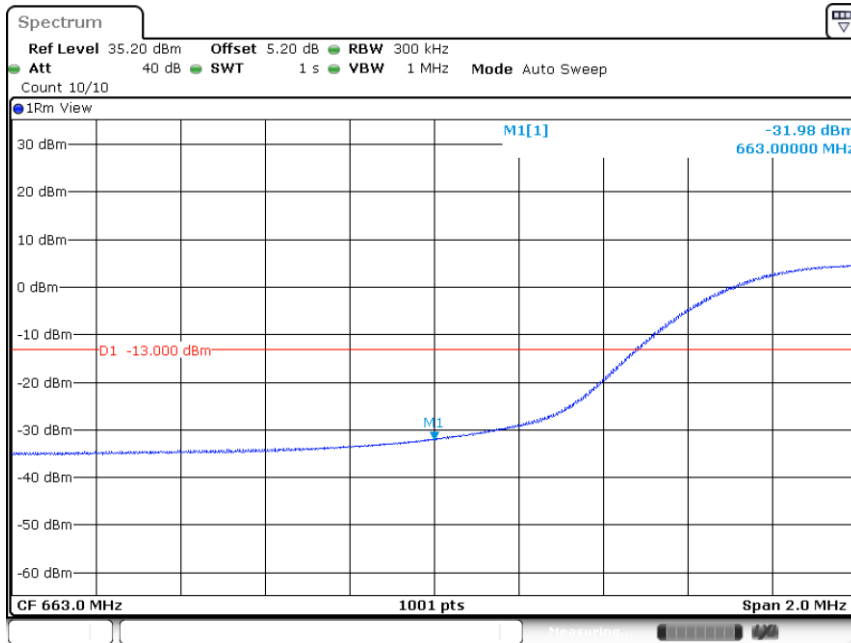


Date: 28.MAY.2021 10:03:53



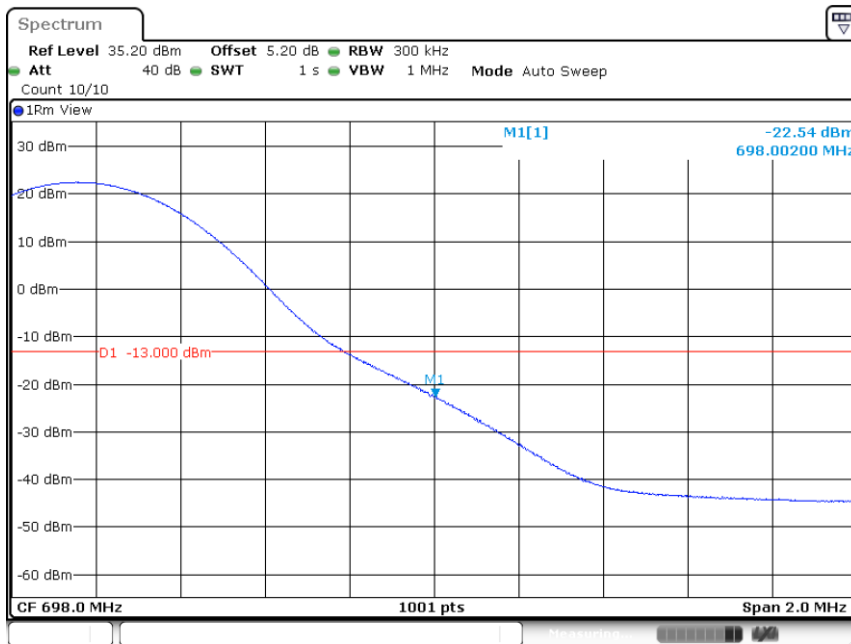
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Band71-15MHz-16QAM-133197-75RB#0



Date: 28.MAY.2021 10:04:35

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



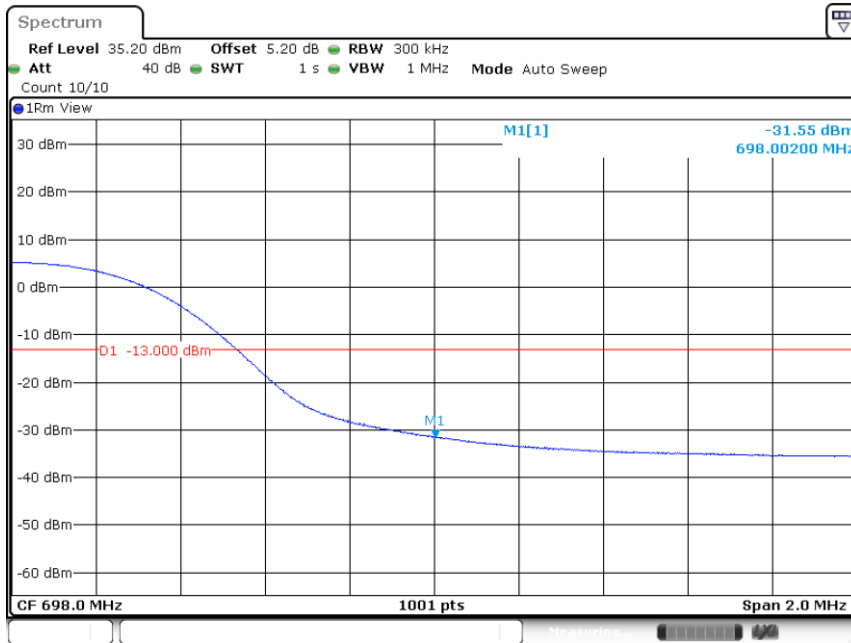
Date: 28.MAY.2021 10:05:20



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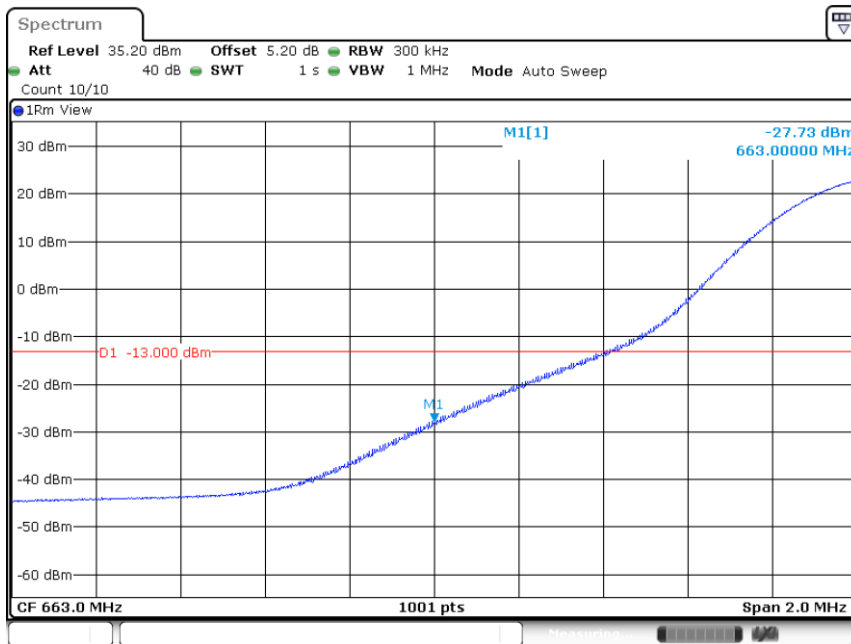
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Band71-15MHz-16QAM-133397-75RB#0



Date: 28.MAY.2021 10:06:01

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

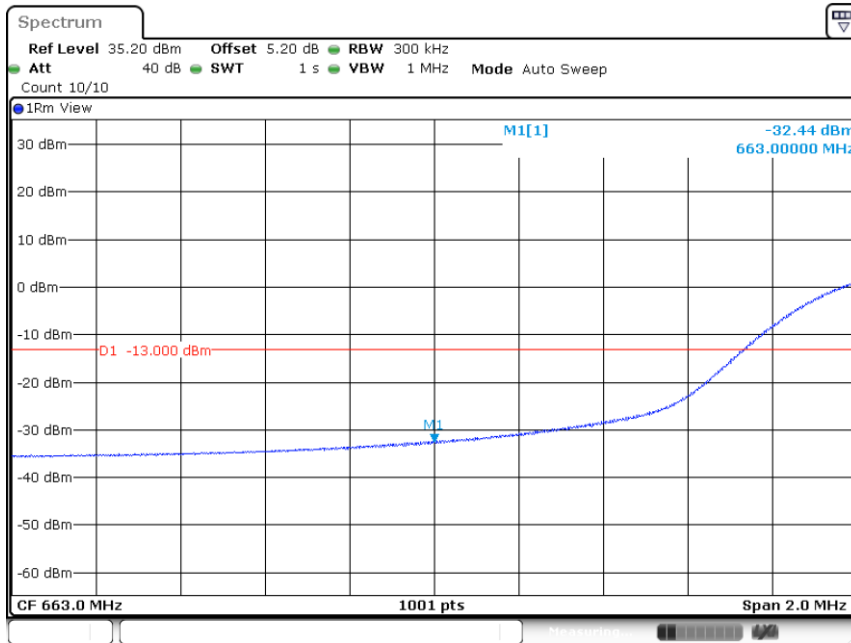


Date: 28.MAY.2021 10:06:28



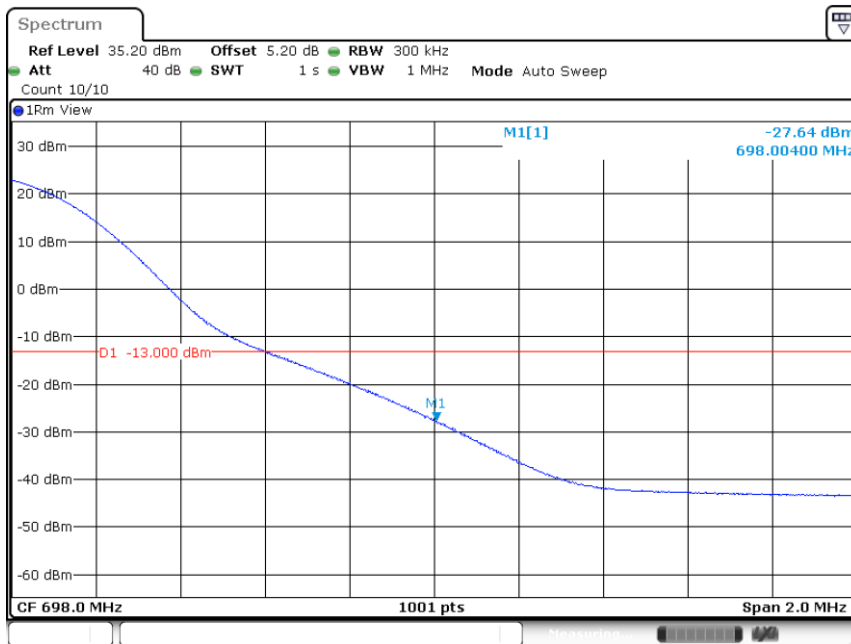
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Band71-20MHz-QPSK-133222-100RB#0



Date: 28.MAY.2021 10:07:09

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

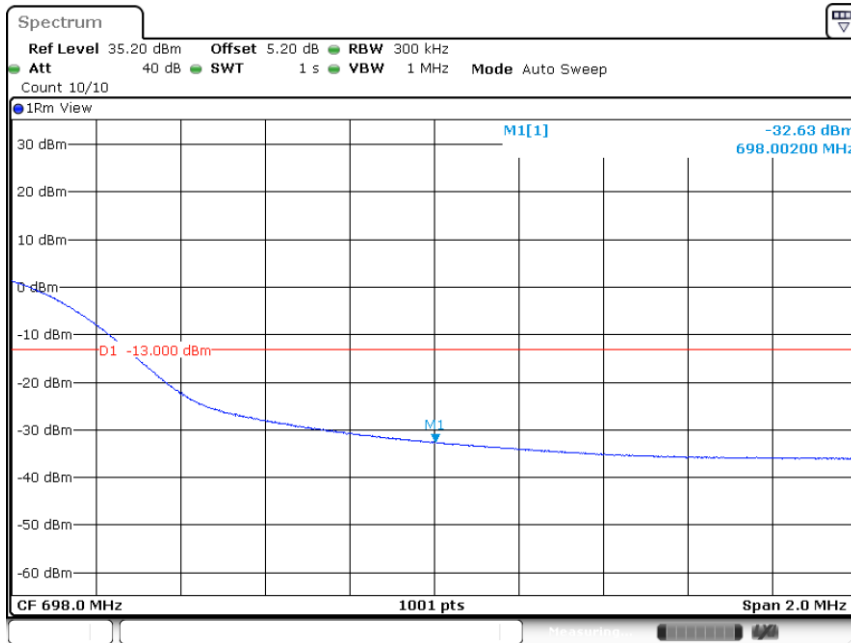


Date: 28.MAY.2021 10:07:55



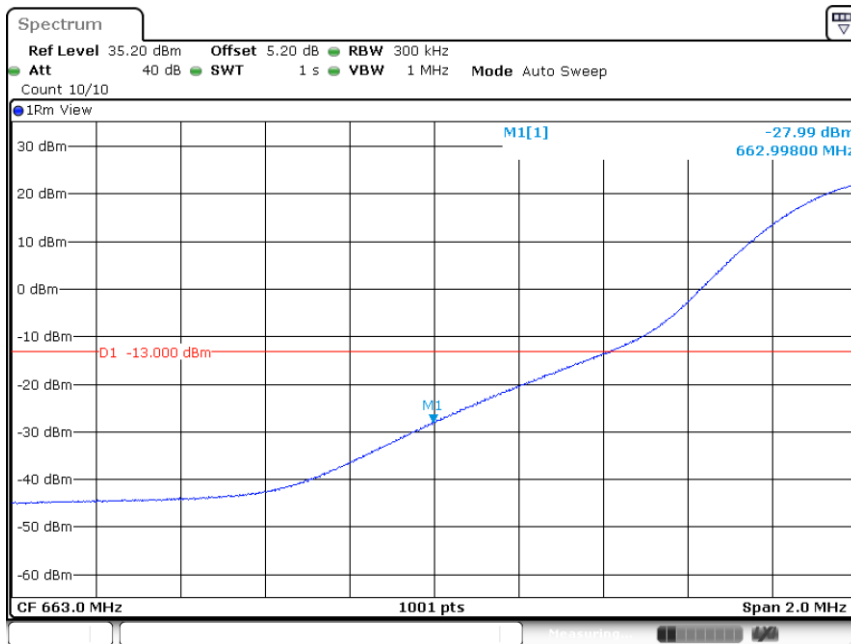
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Band71-20MHz-QPSK-133372-100RB#0



Date: 28.MAY.2021 10:08:36

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



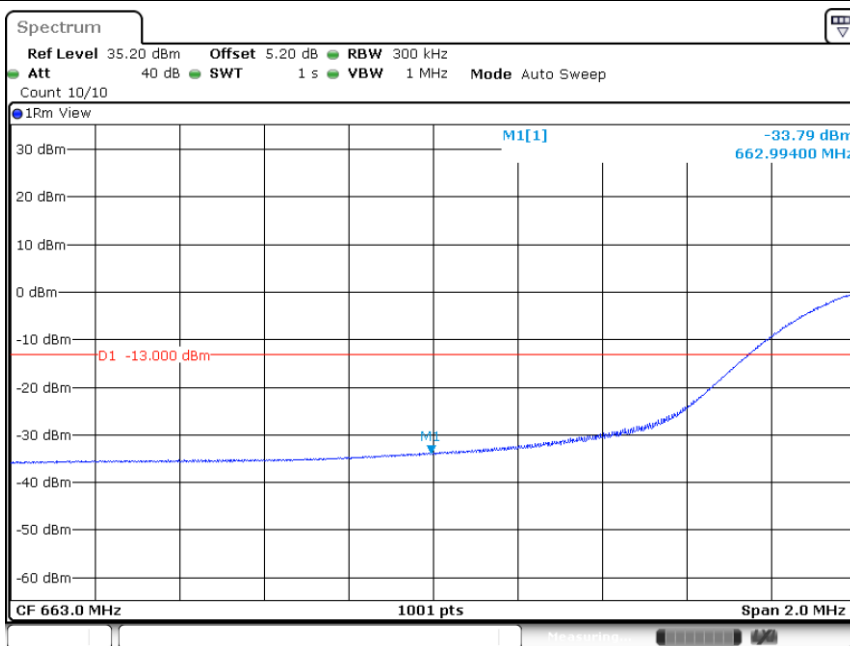
Date: 28.MAY.2021 10:06:48



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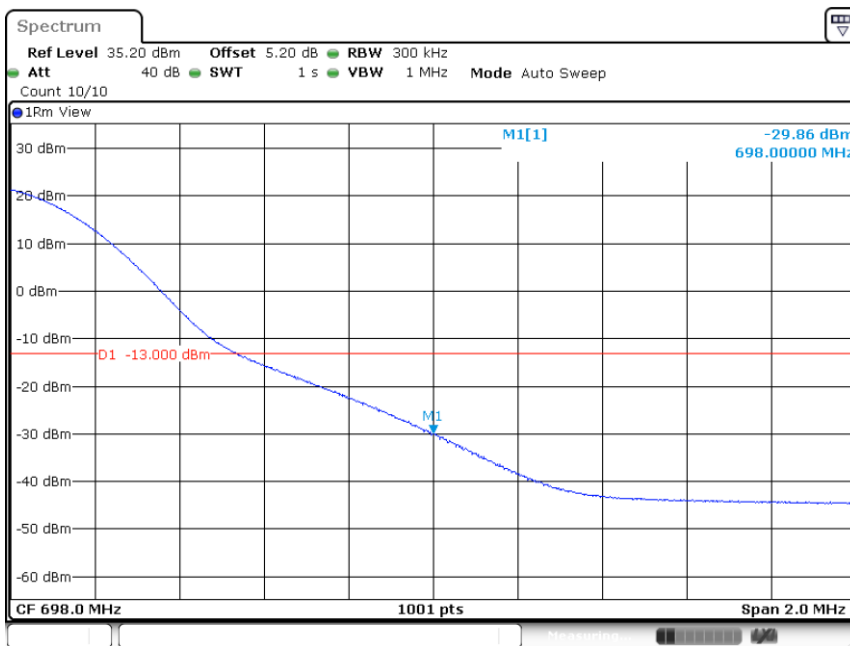
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Band71-20MHz-16QAM-133222-100RB#0



Date: 28.MAY.2021 10:07:30

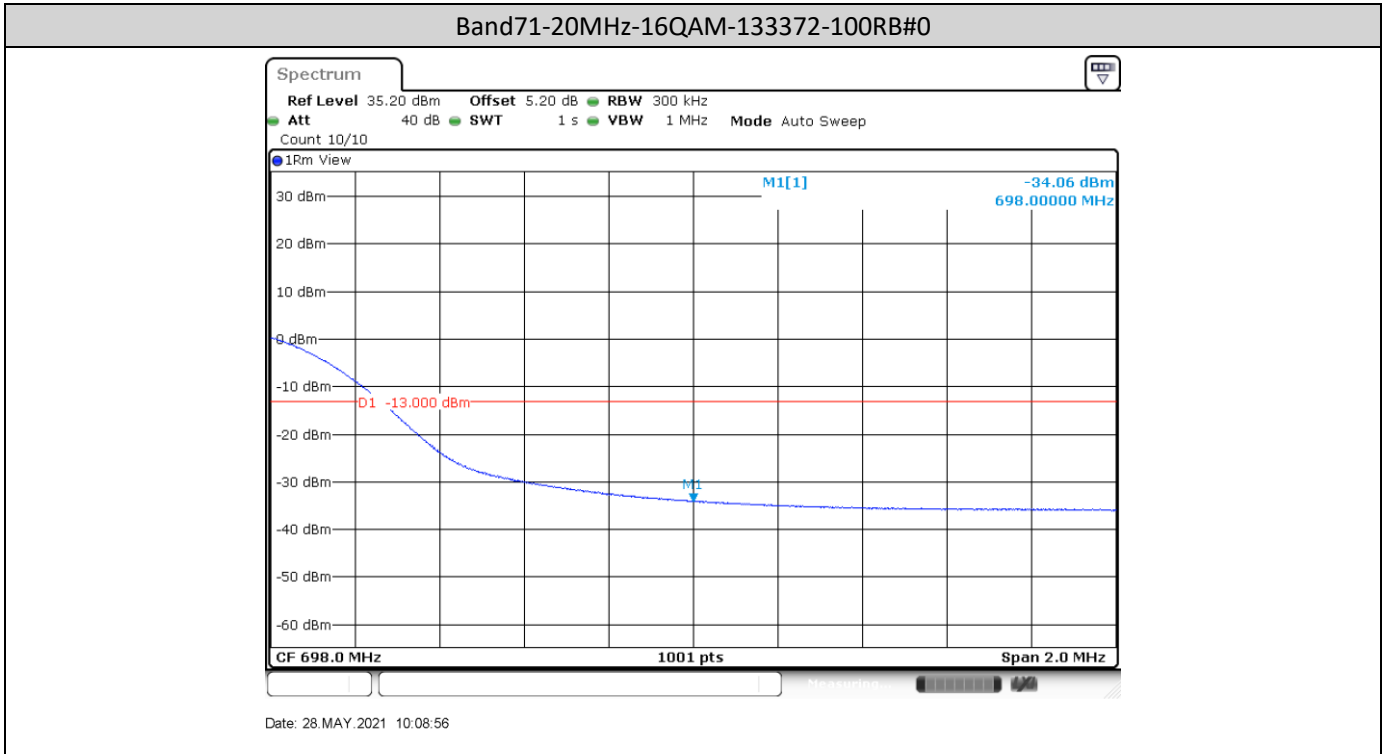
Band71-20MHz-16QAM-133372-1RB#99



Date: 28.MAY.2021 10:08:15



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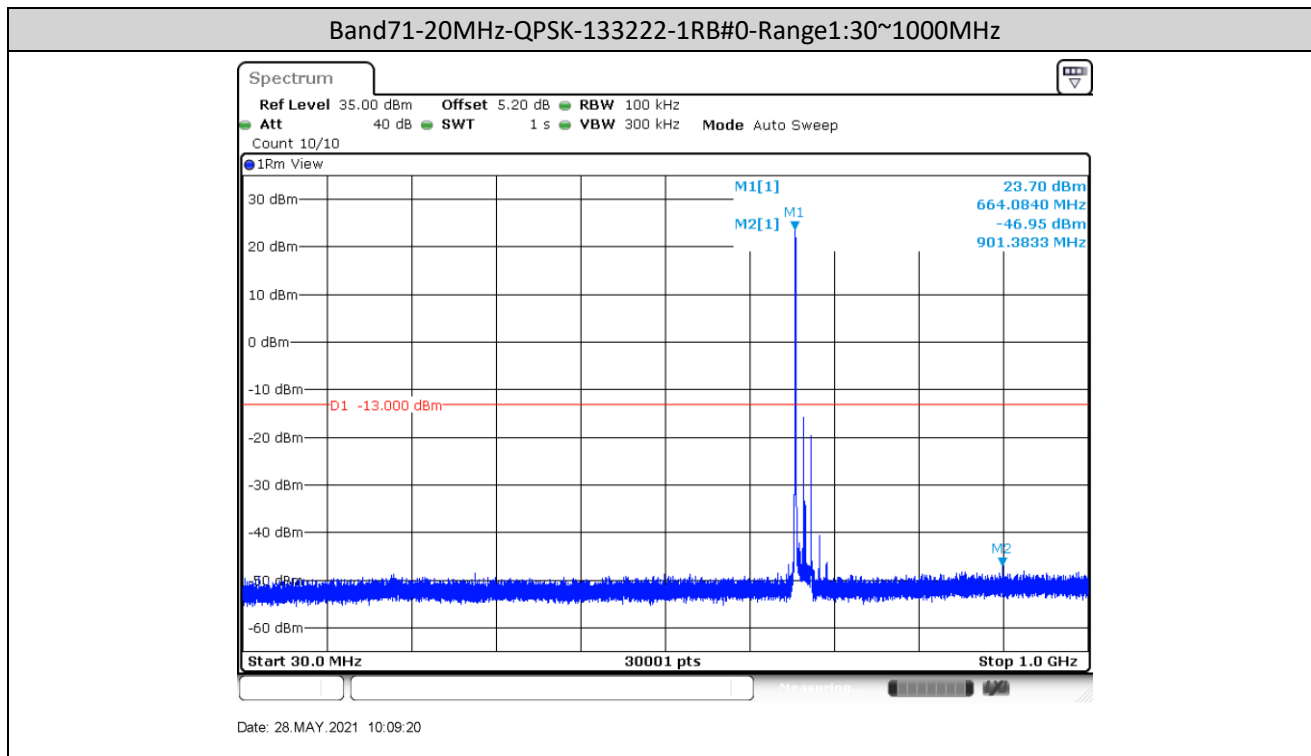
6. Spurious Emission at Antenna Terminal

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: 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.

Remark3: 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 had been displayed.

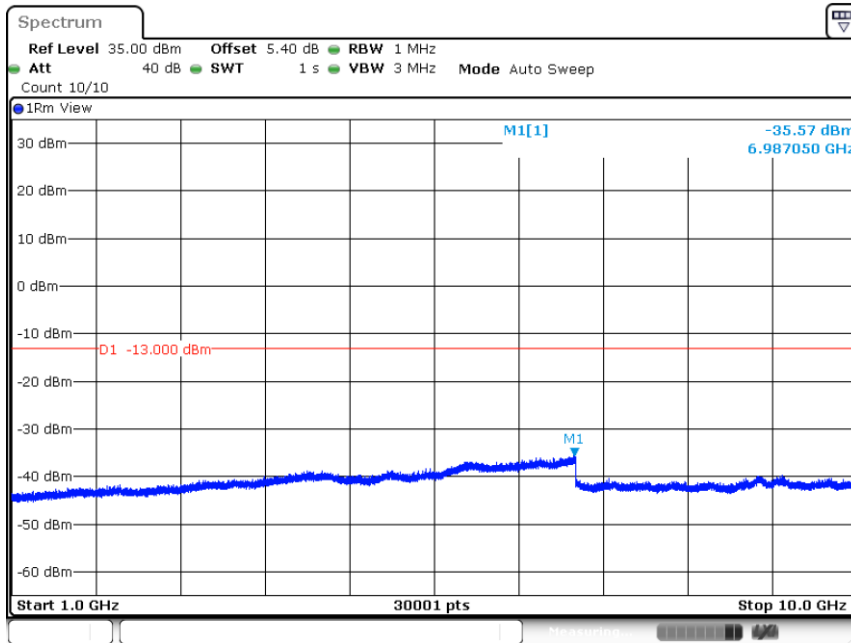
6.1. Test Plots



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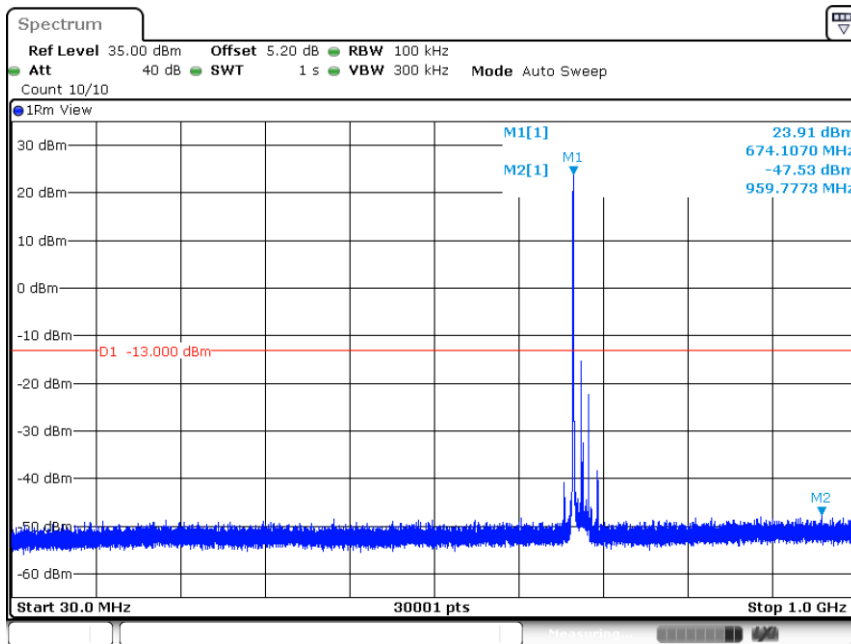
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Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:09:36

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



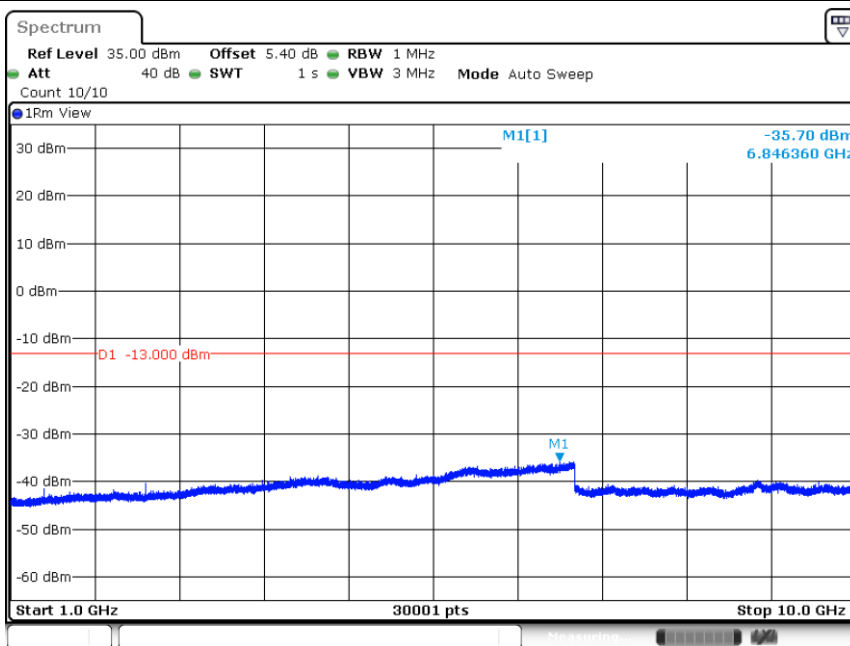
Date: 28.MAY.2021 10:10:31



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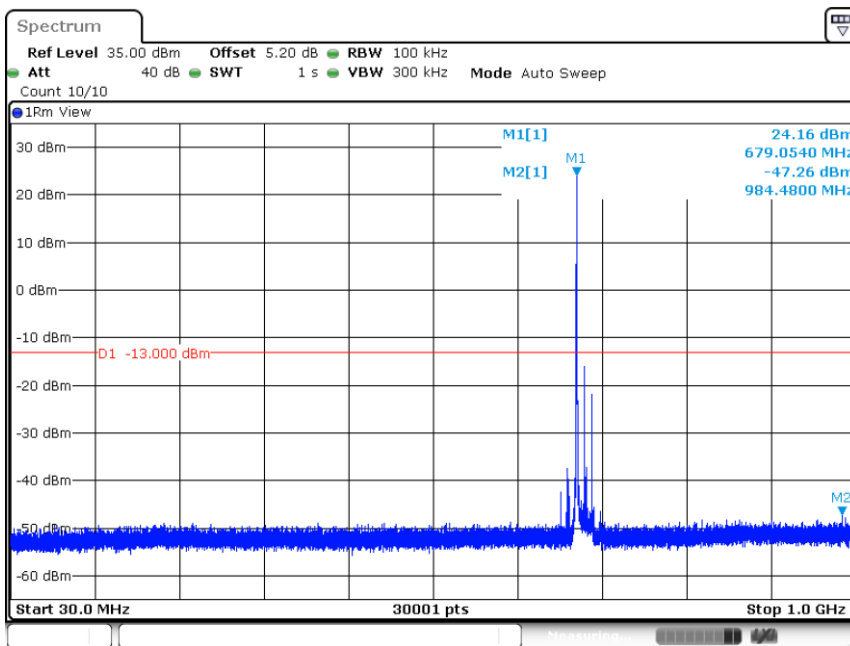
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Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:10:47

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



Date: 28.MAY.2021 10:11:42

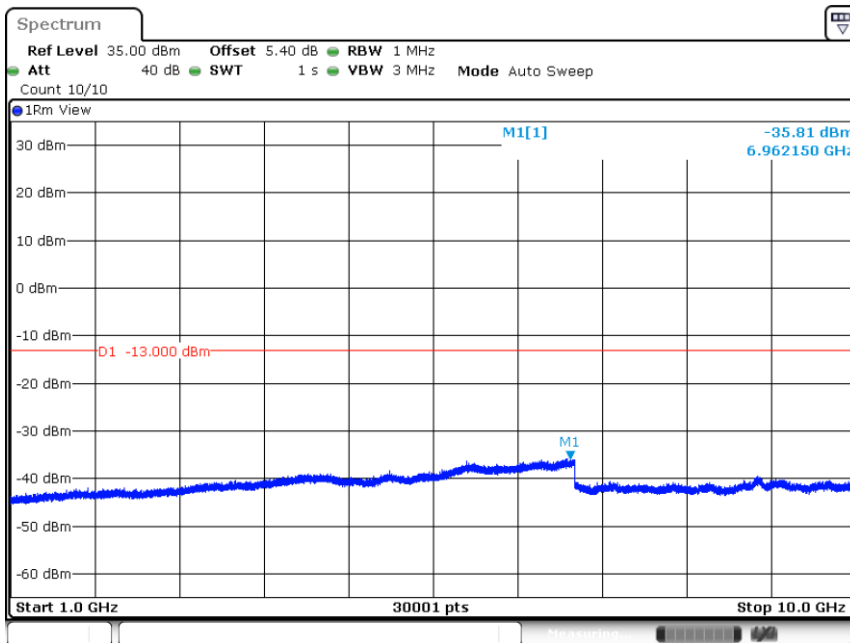


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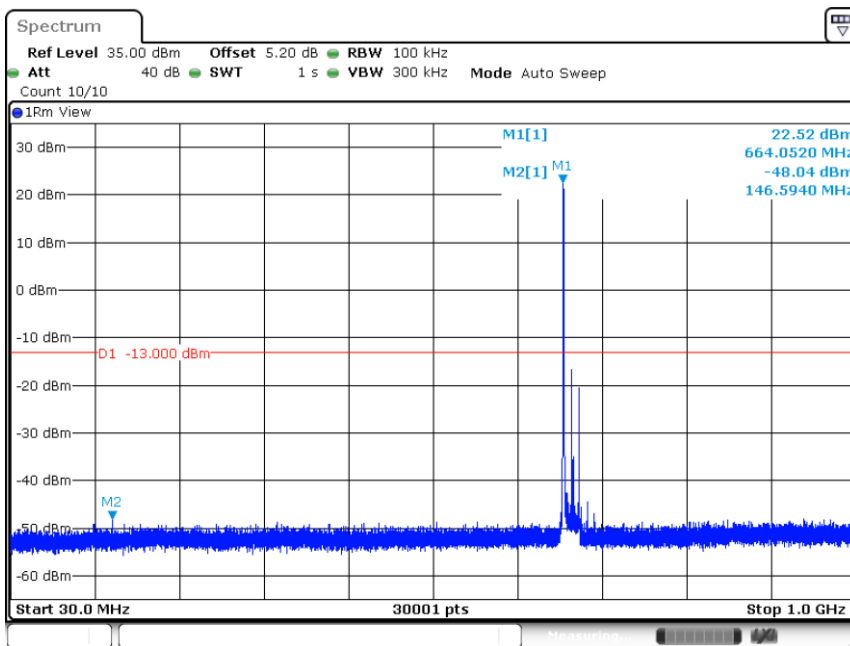
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Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:11:57

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

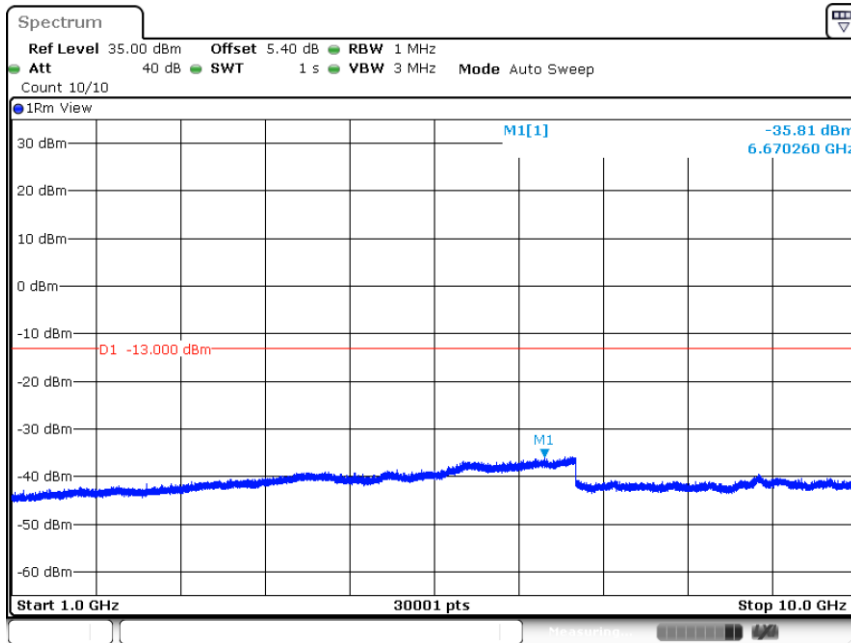


Date: 28.MAY.2021 10:09:56



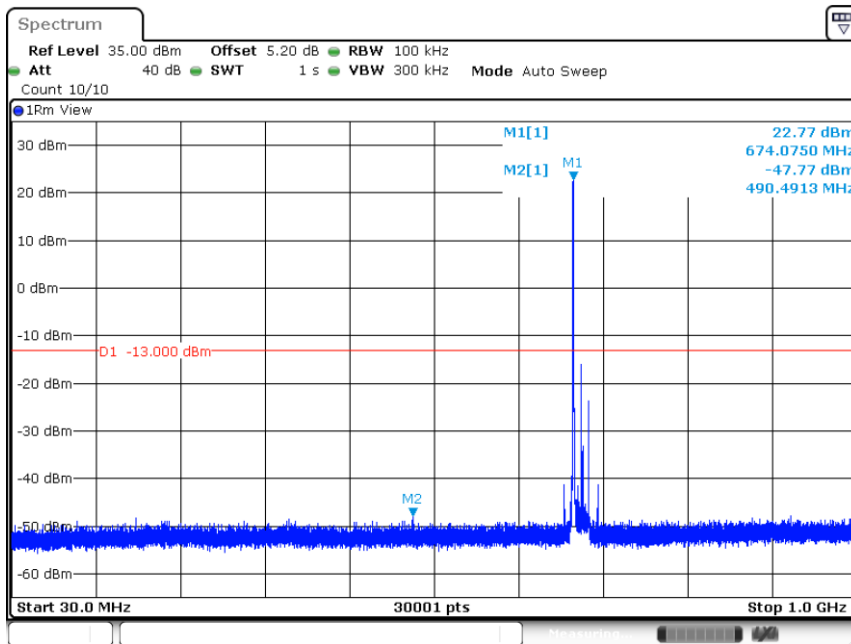
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Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:10:11

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

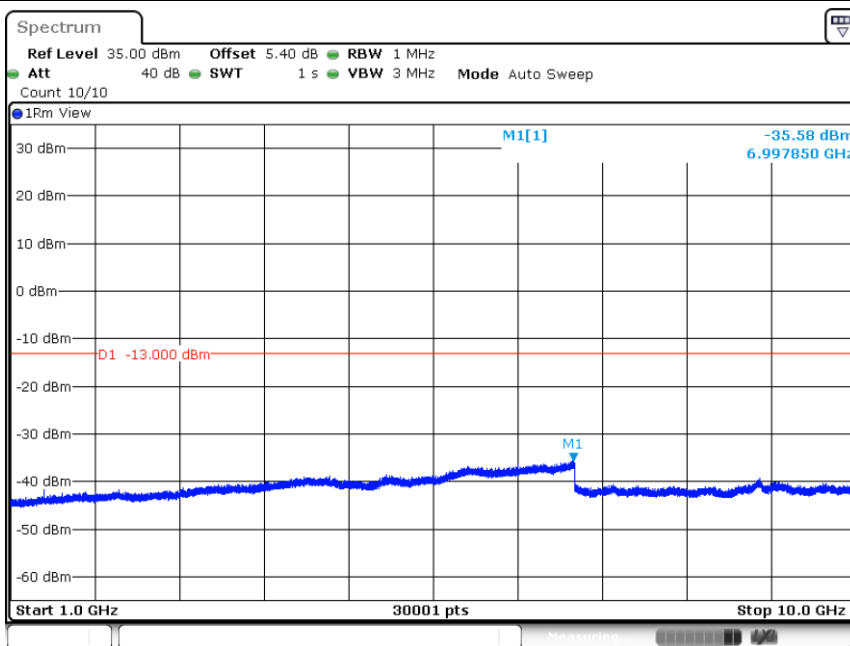


Date: 28.MAY.2021 10:11:06



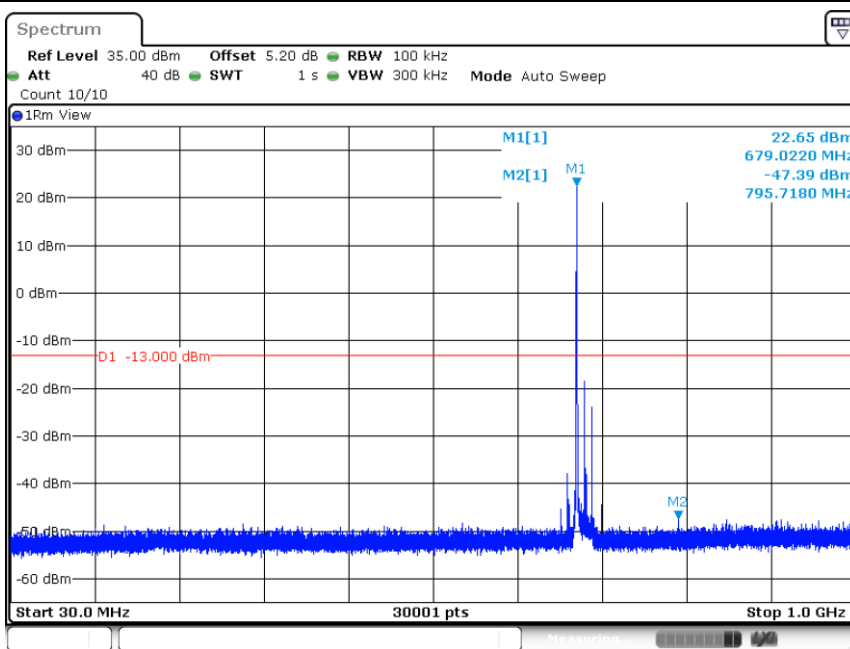
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Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:11:22

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

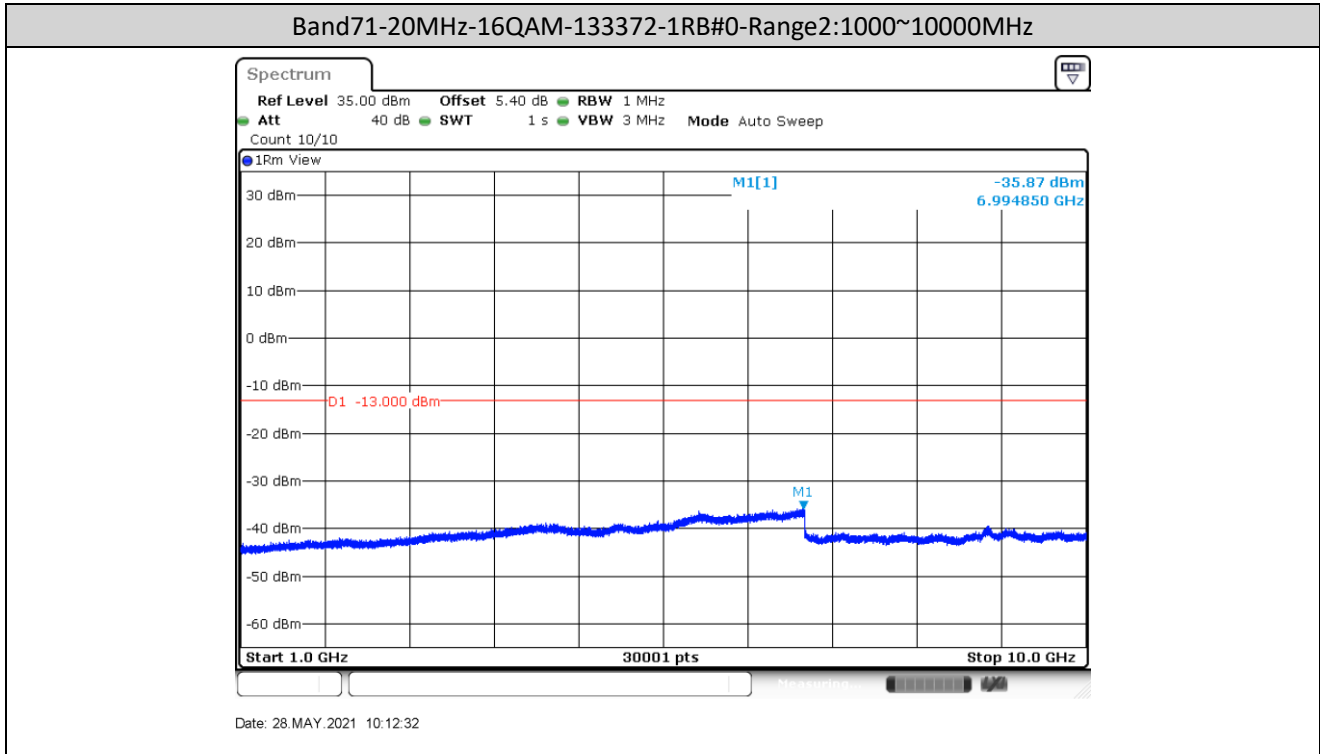


Date: 28.MAY.2021 10:12:17



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7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band71

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1388.4194	26.05	-63.04	-13.00	50.04	Horizontal
2	2630.1815	29.25	-55.64	-13.00	42.64	Horizontal
3	6511.6756	49.42	-55.17	-13.00	42.17	Horizontal
4	9017.5509	46.04	-52.95	-13.00	39.95	Horizontal
5	12353.717	44.23	-50.16	-13.00	37.16	Horizontal
6	16347.667	46.29	-48.47	-13.00	35.47	Horizontal



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7.2. Test Band LTE_Band71

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1346.8173	26.32	-62.82	-13.00	49.82	Vertical
2	2772.0886	29.56	-54.31	-13.00	41.31	Vertical
3	7472.4736	47.50	-54.76	-13.00	41.76	Vertical
4	11274.4137	45.49	-50.42	-13.00	37.42	Vertical
5	15044.852	43.19	-48.74	-13.00	35.74	Vertical
6	16396.419	45.32	-48.49	-13.00	35.49	Vertical



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7.3. Test Band LTE_Band71

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1360.1180	28.80	-60.32	-13.00	47.32	Horizontal
2	2802.7901	31.68	-51.93	-13.00	38.93	Horizontal
3	4641.8321	53.74	-57.81	-13.00	44.81	Horizontal
4	6777.9389	52.65	-51.65	-13.00	38.65	Horizontal
5	13376.018	47.02	-45.57	-13.00	32.57	Horizontal
6	16404.670	47.91	-45.92	-13.00	32.92	Horizontal



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7.4. Test Band LTE_Band71

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.9340	28.64	-60.33	-13.00	47.33	Vertical
2	2797.8899	29.93	-53.68	-13.00	40.68	Vertical
3	5700.8850	49.54	-57.27	-13.00	44.27	Vertical
4	8998.0499	47.97	-50.97	-13.00	37.97	Vertical
5	12974.748	45.55	-47.23	-13.00	34.23	Vertical
6	16430.171	47.26	-47.03	-13.00	34.03	Vertical



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7.5. Test Band LTE_Band71

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1494.9247	28.83	-59.96	-13.00	46.96	Horizontal
2	2769.4885	30.81	-53.09	-13.00	40.09	Horizontal
3	7472.4736	49.35	-52.91	-13.00	39.91	Horizontal
4	9034.8017	48.61	-50.45	-13.00	37.45	Horizontal
5	14681.084	46.22	-46.32	-13.00	33.32	Horizontal
6	17910.745	48.73	-44.23	-13.00	31.23	Horizontal



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7.6. Test Band LTE_Band71

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1505.1253	28.79	-60.03	-13.00	47.03	Vertical
2	2790.4895	31.61	-52.08	-13.00	39.08	Vertical
3	6730.6865	50.67	-53.56	-13.00	40.56	Vertical
4	9031.8016	48.23	-50.82	-13.00	37.82	Vertical
5	13334.016	46.03	-46.74	-13.00	33.74	Vertical
6	17910.745	48.07	-44.89	-13.00	31.89	Vertical

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	-2.80	-0.004160	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-2.10	-0.003120	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-1.90	-0.002823	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.20	-0.003221	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-1.20	-0.001744	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-2.60	-0.003779	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-0.60	-0.000872	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	-0.20	-0.000297	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-2.50	-0.003715	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-0.60	-0.000892	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	0.20	0.000293	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-0.20	-0.000293	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-0.40	-0.000581	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	0.00	0.000000	±2.5	PASS



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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	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-0.60	-0.000892	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	-1.30	-0.001932	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-1.20	-0.001783	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-1.90	-0.002823	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-0.50	-0.000743	±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	-20	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.30	-0.001903	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-1.40	-0.002050	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-1.70	-0.002471	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	-2.20	-0.003198	±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	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-2.90	-0.004215	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-1.40	-0.002080	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-10	-0.30	-0.000446	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-1.20	-0.001783	±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	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-1.90	-0.002823	±2.5	PASS



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Band71	20MHz	16QAM	133222	100RB#0	NV	50	-0.20	-0.000297	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-10	-0.30	-0.000439	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-1.00	-0.001464	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-0.40	-0.000586	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-0.20	-0.000293	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-0.40	-0.000581	±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	-10	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-0.50	-0.000727	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-0.40	-0.000581	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-2.60	-0.003779	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-1.90	-0.002762	±2.5	PASS



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