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Appendix B.18

LTE Band 71



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	24.37	25.22	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	24.3	25.15	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	24.24	25.09	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	24.37	25.22	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	24.39	25.24	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.31	25.16	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	24.34	25.19	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	24.12	24.97	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	24.33	25.18	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	24.29	25.14	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	24.26	25.11	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	24.34	25.19	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.41	24.26	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.5	24.35	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	23.5	24.35	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	22.33	23.18	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	23.66	24.51	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	23.64	24.49	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	23.61	24.46	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.44	23.29	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	23.47	24.32	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.53	24.38	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	23.38	24.23	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	22.33	23.18	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#0	22.38	23.23	34.77	PASS



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Band71	5MHz	64QAM	133147	1RB#12	22.42	23.27	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#24	22.41	23.26	34.77	PASS
Band71	5MHz	64QAM	133147	25RB#0	21.34	22.19	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#0	22.61	23.46	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#12	22.6	23.45	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#24	22.5	23.35	34.77	PASS
Band71	5MHz	64QAM	133297	25RB#0	21.44	22.29	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#0	22.5	23.35	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#12	22.53	23.38	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#24	22.32	23.17	34.77	PASS
Band71	5MHz	64QAM	133447	25RB#0	21.33	22.18	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	24.38	25.23	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.3	25.15	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	24.29	25.14	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	24.13	24.98	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	24.31	25.16	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	24.38	25.23	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.36	25.21	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	24.15	25	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.15	25	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	24.37	25.22	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.29	25.14	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	24.11	24.96	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.53	24.38	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	23.47	24.32	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.47	24.32	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	22.46	23.31	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	23.47	24.32	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.57	24.42	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.53	24.38	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	22.45	23.3	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.73	24.58	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.5	24.35	34.77	PASS



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Band71	10MHz	16QAM	133422	1RB#49	23.4	24.25	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	22.4	23.25	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#0	22.44	23.29	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#24	22.43	23.28	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#49	22.47	23.32	34.77	PASS
Band71	10MHz	64QAM	133172	50RB#0	21.46	22.31	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#0	22.42	23.27	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#24	22.51	23.36	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#49	22.52	23.37	34.77	PASS
Band71	10MHz	64QAM	133297	50RB#0	21.45	22.3	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#0	22.59	23.44	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#24	22.54	23.39	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#49	22.43	23.28	34.77	PASS
Band71	10MHz	64QAM	133422	50RB#0	21.38	22.23	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	24.12	24.97	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	24.3	25.15	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	24.23	25.08	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	24.12	24.97	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	24.36	25.21	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.11	24.96	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	24.12	24.97	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	24.39	25.24	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.39	25.24	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	24.11	24.96	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	24.25	25.1	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	24.27	25.12	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	23.58	24.43	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.42	24.27	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	23.48	24.33	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	22.37	23.22	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	23.51	24.36	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.57	24.42	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	23.66	24.51	34.77	PASS



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Band71	15MHz	16QAM	133297	75RB#0	22.38	23.23	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.75	24.6	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	23.49	24.34	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	23.4	24.25	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	22.28	23.13	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#0	22.5	23.35	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#38	22.46	23.31	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#74	22.38	23.23	34.77	PASS
Band71	15MHz	64QAM	133197	75RB#0	21.4	22.25	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#0	22.45	23.3	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#38	22.61	23.46	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#74	22.52	23.37	34.77	PASS
Band71	15MHz	64QAM	133297	75RB#0	21.38	22.23	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#0	22.59	23.44	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#38	22.56	23.41	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#74	22.34	23.19	34.77	PASS
Band71	15MHz	64QAM	133397	75RB#0	21.29	22.14	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	24.12	24.97	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	24.26	25.11	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	24.31	25.16	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	24.36	25.21	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	24.1	24.95	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.33	25.18	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	24.26	25.11	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	24.39	25.24	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	24.17	25.02	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	24.17	25.02	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	24.19	25.04	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	24.33	25.18	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	23.6	24.45	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.44	24.29	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	23.5	24.35	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	22.31	23.16	34.77	PASS



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Band71	20MHz	16QAM	133322	1RB#0	23.55	24.4	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	23.68	24.53	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.45	24.3	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	22.38	23.23	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	23.73	24.58	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.75	24.6	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	23.35	24.2	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	22.38	23.23	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#0	22.57	23.42	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#49	22.42	23.27	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#99	22.54	23.39	34.77	PASS
Band71	20MHz	64QAM	133222	100RB#0	21.35	22.2	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#0	22.49	23.34	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#49	22.59	23.44	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#99	22.42	23.27	34.77	PASS
Band71	20MHz	64QAM	133322	100RB#0	21.4	22.25	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#0	22.59	23.44	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#49	22.66	23.51	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#99	22.33	23.18	34.77	PASS
Band71	20MHz	64QAM	133372	100RB#0	21.39	22.24	34.77	PASS



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Peak-to-Average Ratio(CCDF)

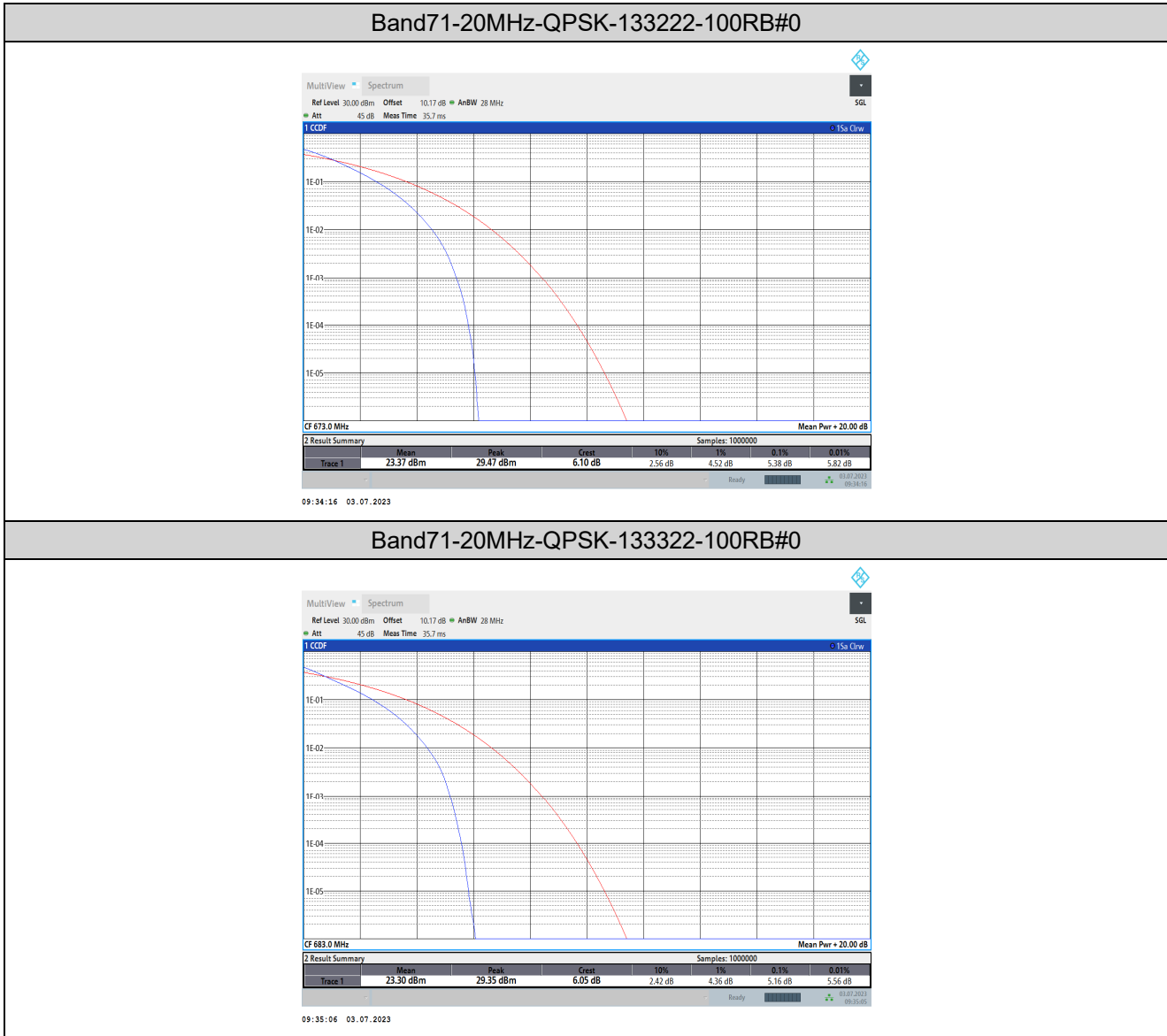
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.38	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.16	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.26	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.10	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.04	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.12	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.48	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.40	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.50	13	PASS



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Test Graphs

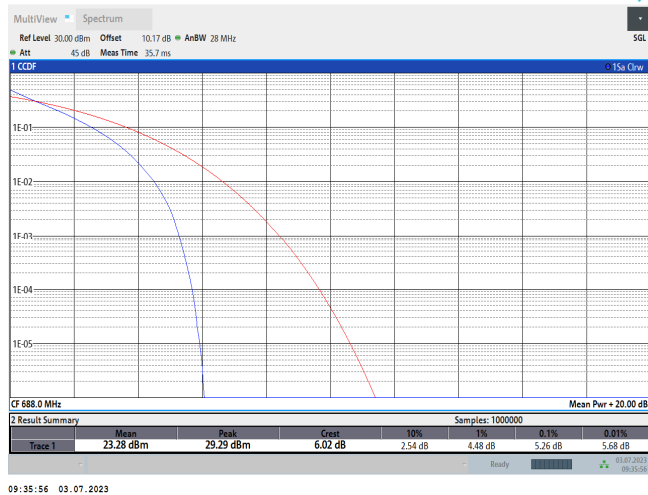


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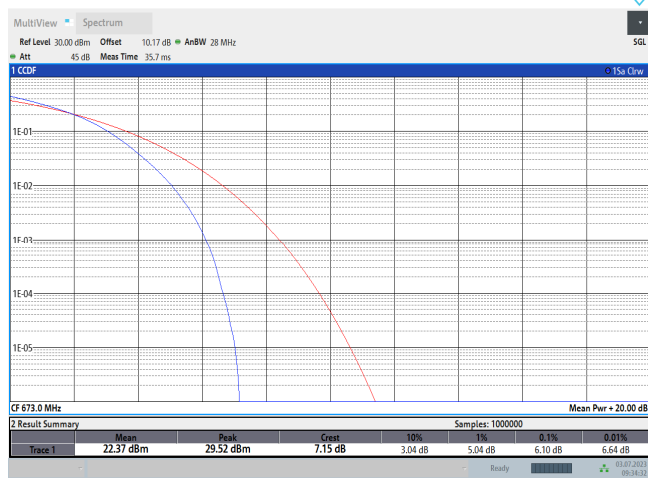
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Band71-20MHz-QPSK-133372-100RB#0



09:35:56 03.07.2023

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



09:34:33 03.07.2023



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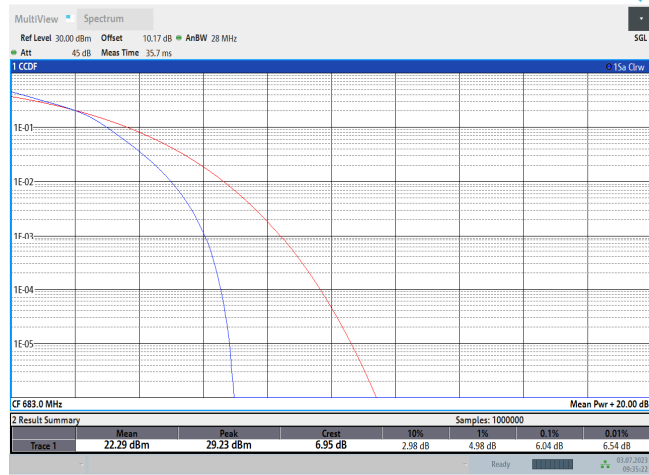
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Band71-20MHz-16QAM-133322-100RB#0

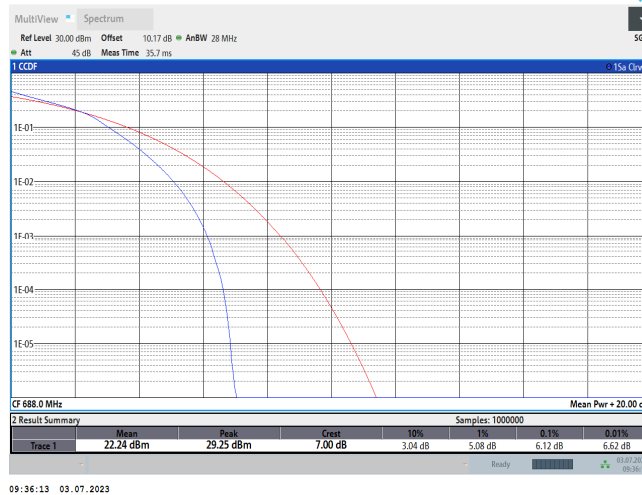


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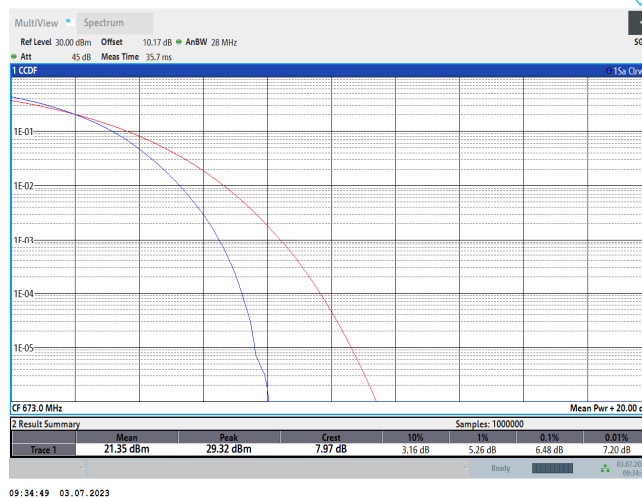


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Band71-20MHz-16QAM-133372-100RB#0



Band71-20MHz-64QAM-133222-100RB#0

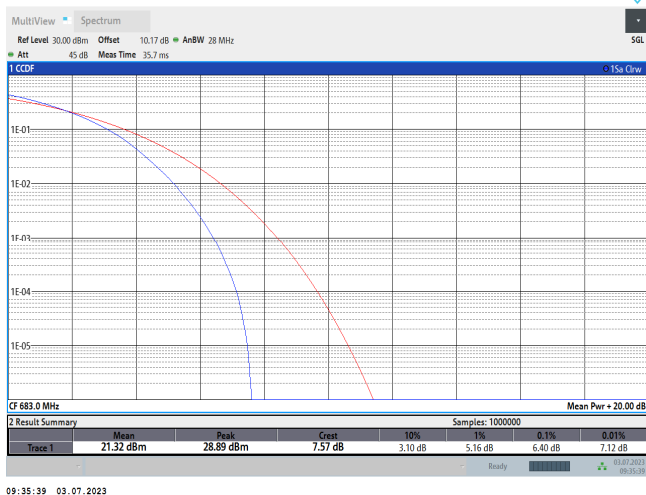


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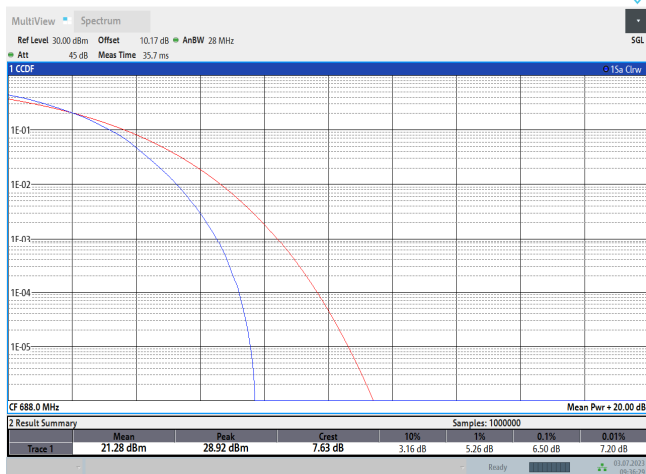
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Band71-20MHz-64QAM-133322-100RB#0



09:35:39 03.07.2023

Band71-20MHz-64QAM-133372-100RB#0



09:36:29 03.07.2023



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Modulation Characteristics

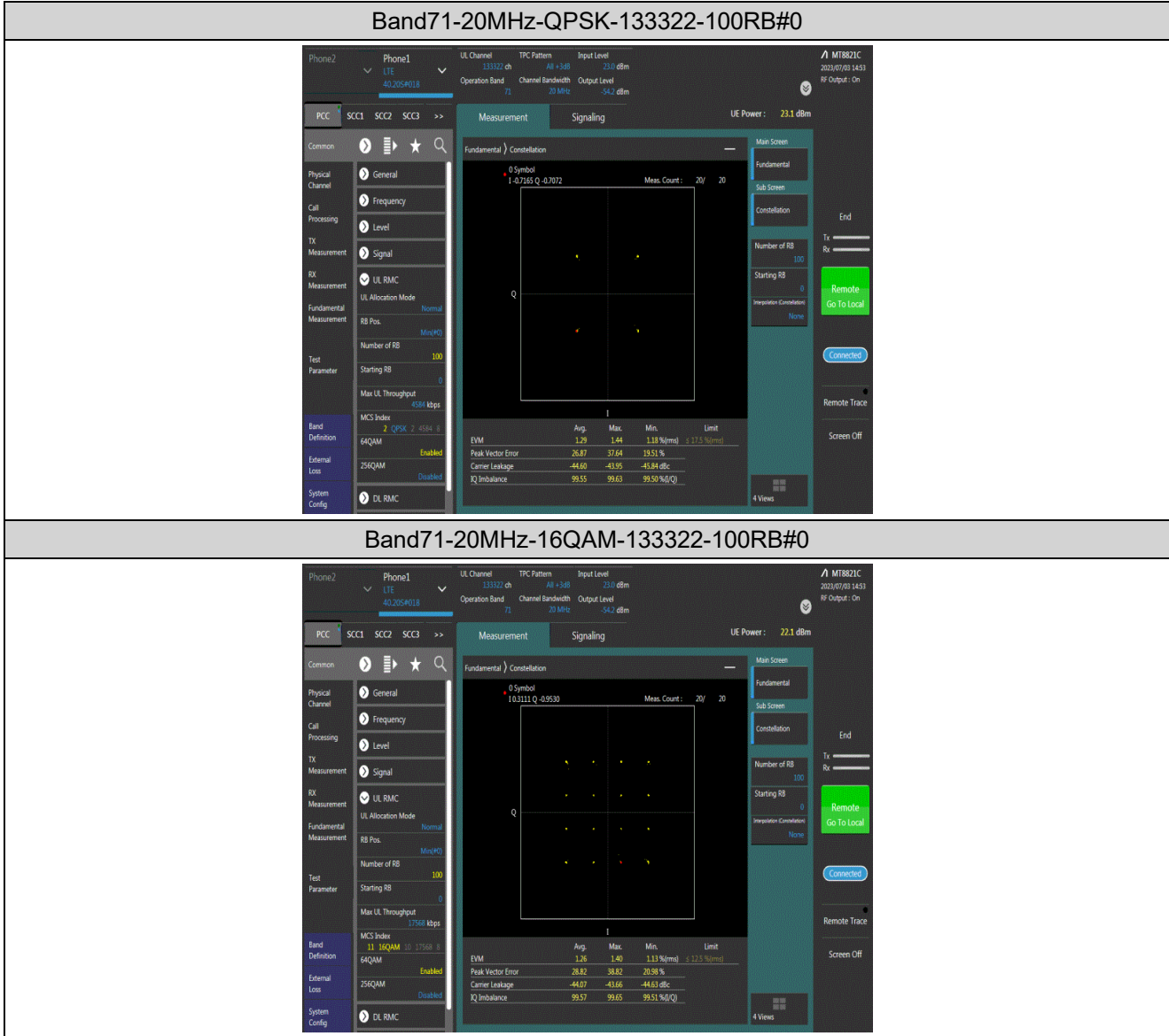
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS
Band71	20MHz	16QAM	133322	100RB#0	PASS	PASS
Band71	20MHz	64QAM	133322	100RB#0	PASS	PASS

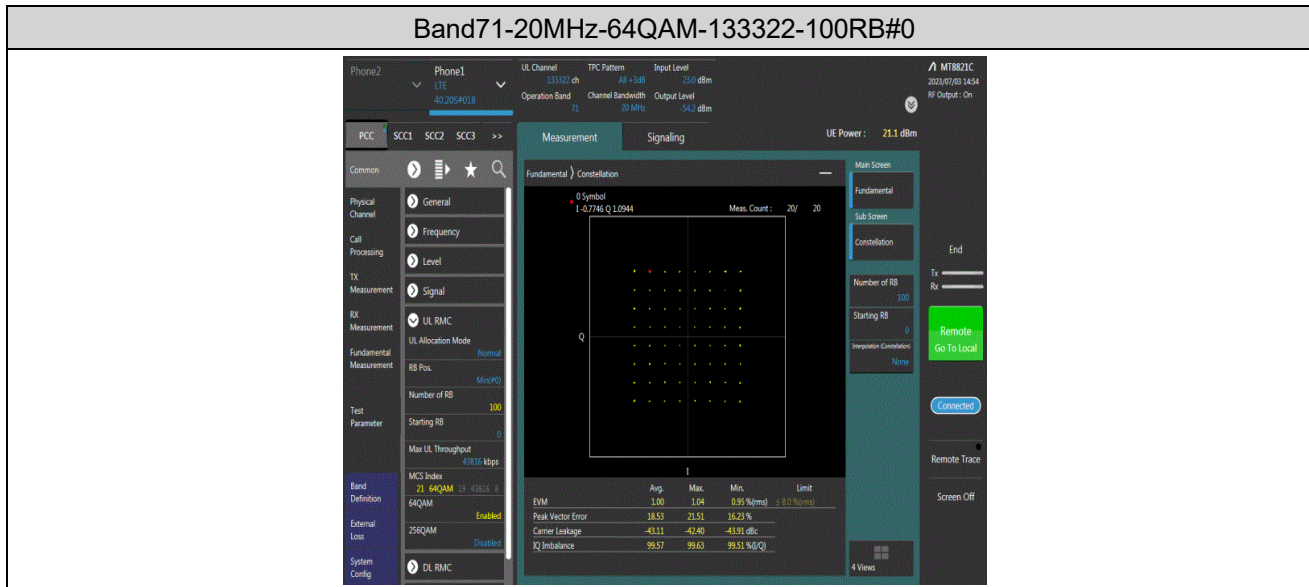


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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.463	4.86	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.473	4.88	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.473	4.87	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.466	4.89	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.473	4.91	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.469	4.92	PASS
Band71	5MHz	64QAM	133147	25RB#0	4.475	4.87	PASS
Band71	5MHz	64QAM	133297	25RB#0	4.483	4.90	PASS
Band71	5MHz	64QAM	133447	25RB#0	4.478	4.90	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.912	9.58	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.922	9.60	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.934	9.64	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.907	9.60	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.62	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.917	9.62	PASS
Band71	10MHz	64QAM	133172	50RB#0	8.923	9.60	PASS
Band71	10MHz	64QAM	133297	50RB#0	8.93	9.66	PASS
Band71	10MHz	64QAM	133422	50RB#0	8.927	9.64	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.469	14.70	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.409	14.61	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.477	14.73	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.456	14.85	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.405	14.79	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.455	14.76	PASS
Band71	15MHz	64QAM	133197	75RB#0	13.439	14.73	PASS
Band71	15MHz	64QAM	133297	75RB#0	13.386	14.76	PASS
Band71	15MHz	64QAM	133397	75RB#0	13.425	14.70	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.928	19.44	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.867	19.44	PASS



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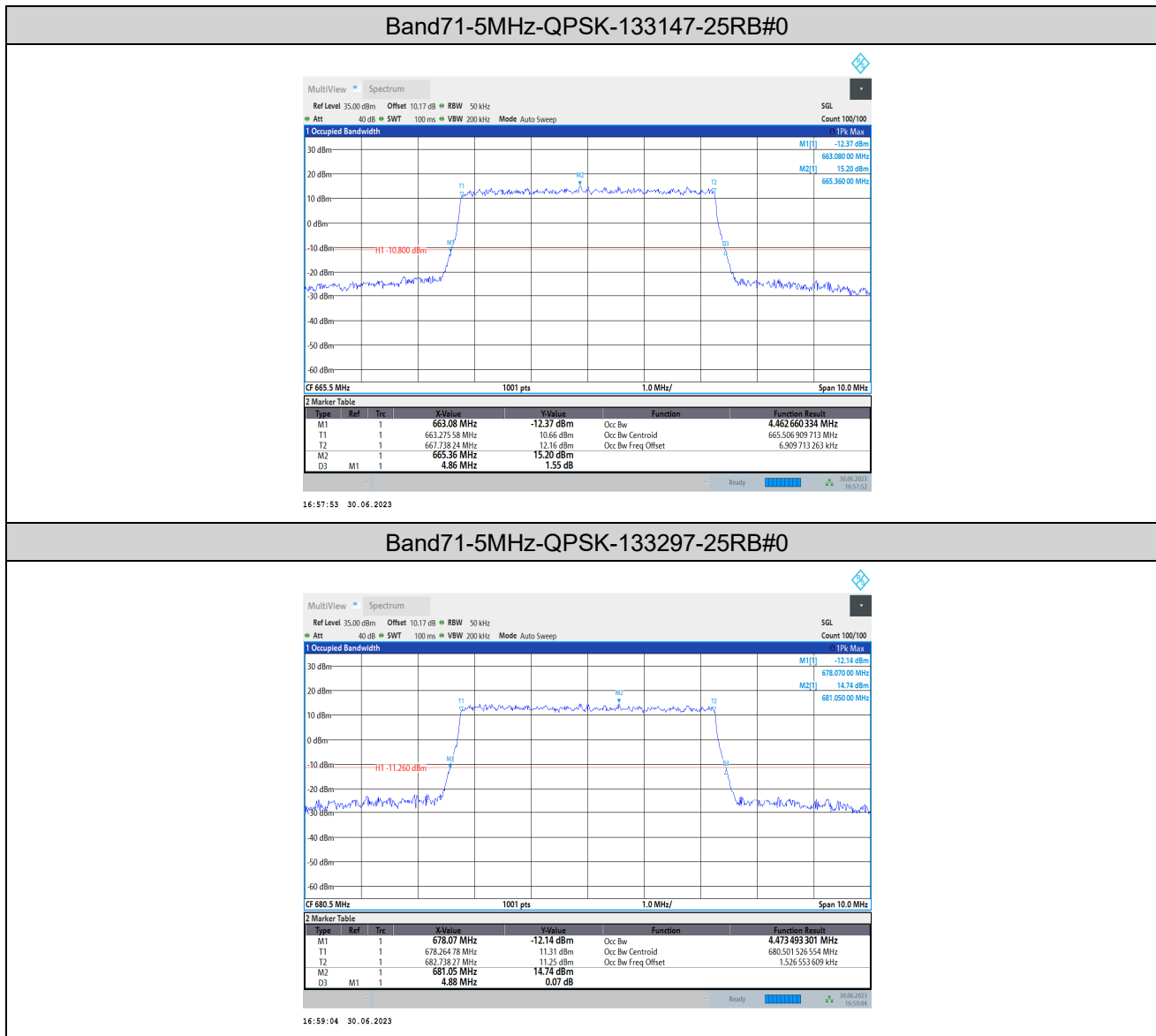
Band71	20MHz	QPSK	133372	100RB#0	17.917	19.40	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.879	19.28	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.876	19.32	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.878	19.44	PASS
Band71	20MHz	64QAM	133222	100RB#0	17.874	19.36	PASS
Band71	20MHz	64QAM	133322	100RB#0	17.844	19.32	PASS
Band71	20MHz	64QAM	133372	100RB#0	17.897	19.40	PASS



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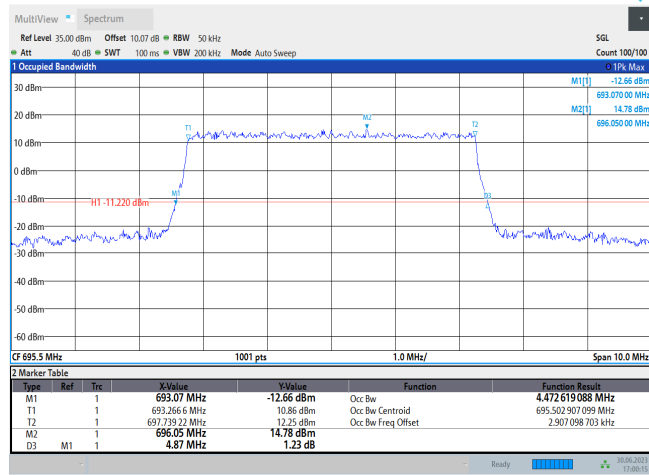


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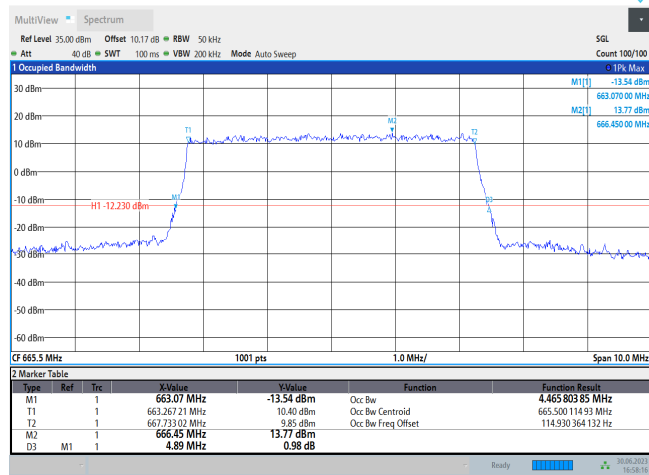
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Band71-5MHz-QPSK-133447-25RB#0



17:00:16 30.06.2023

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

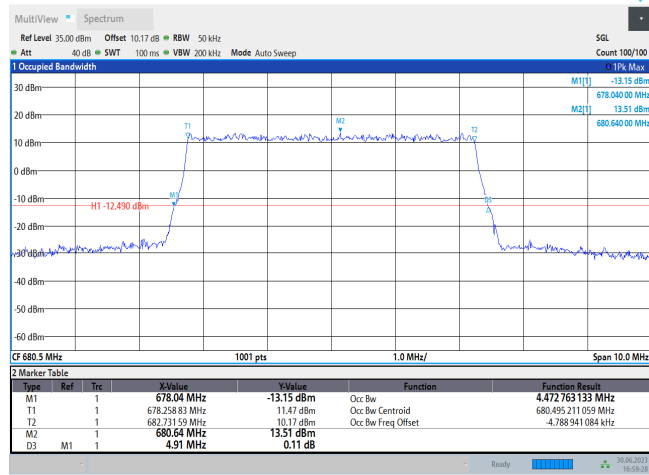


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Band71-5MHz-16QAM-133297-25RB#0

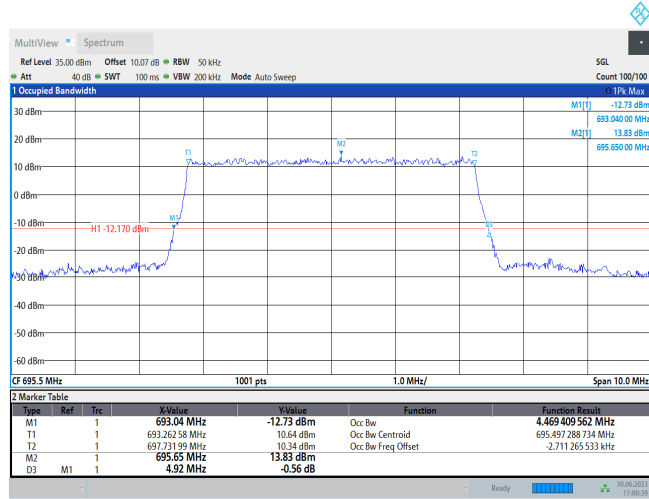


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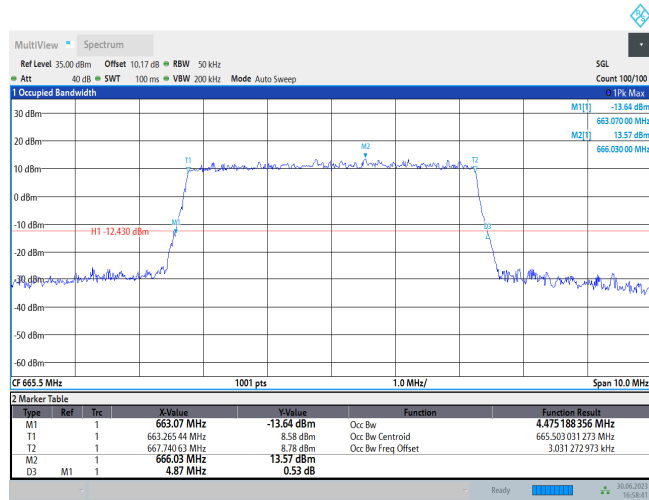
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Band71-5MHz-16QAM-133447-25RB#0



17:00:39 30.06.2023

Band71-5MHz-64QAM-133147-25RB#0

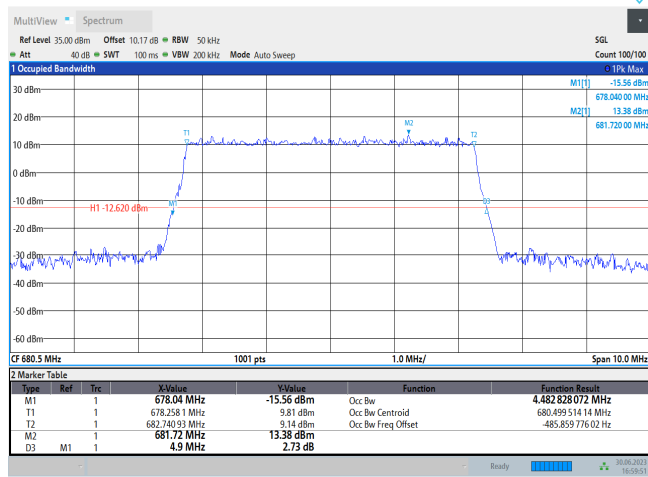


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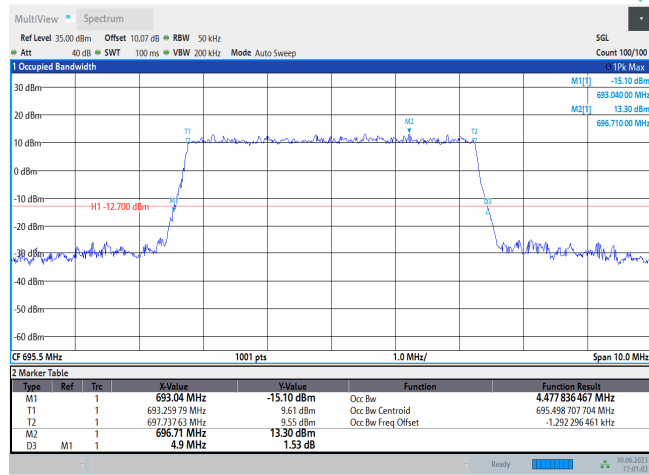


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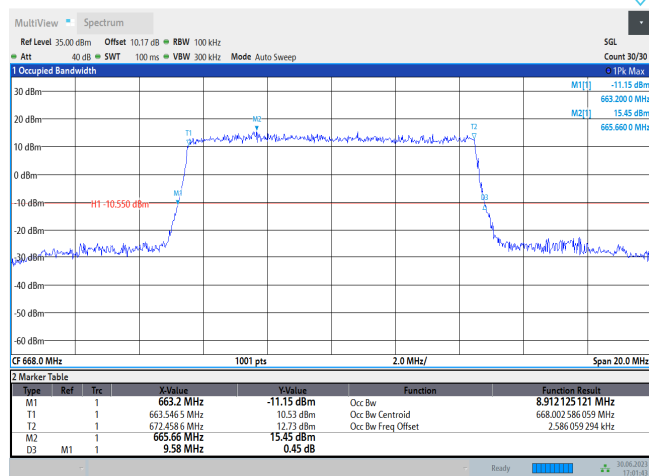
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Band71-5MHz-64QAM-133447-25RB#0



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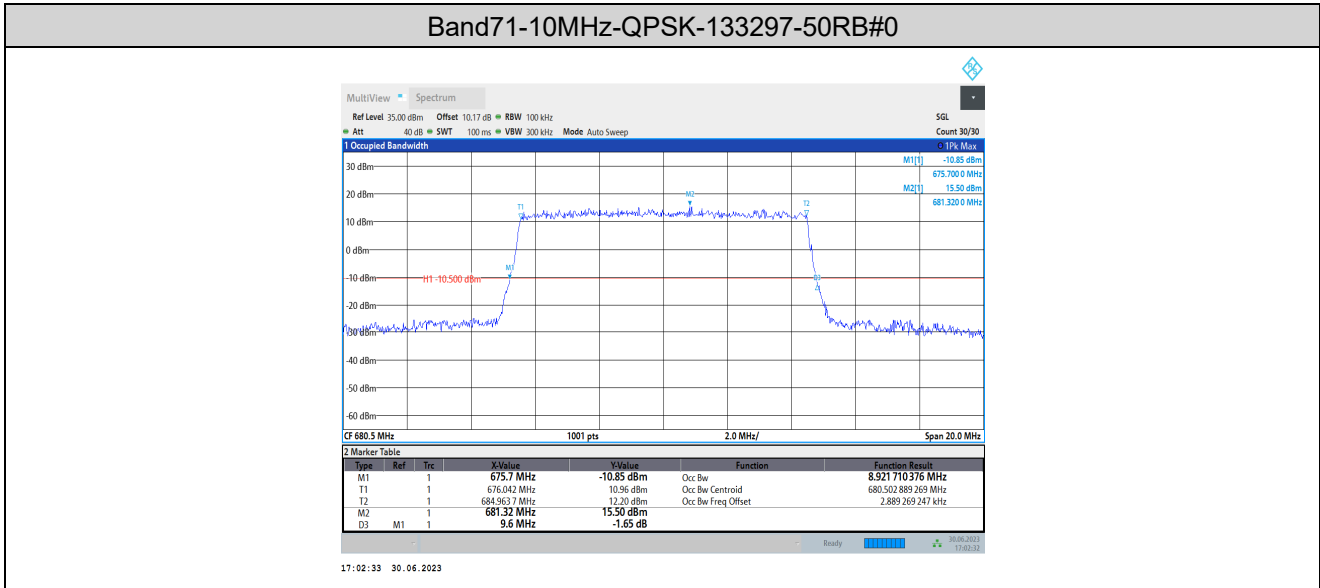
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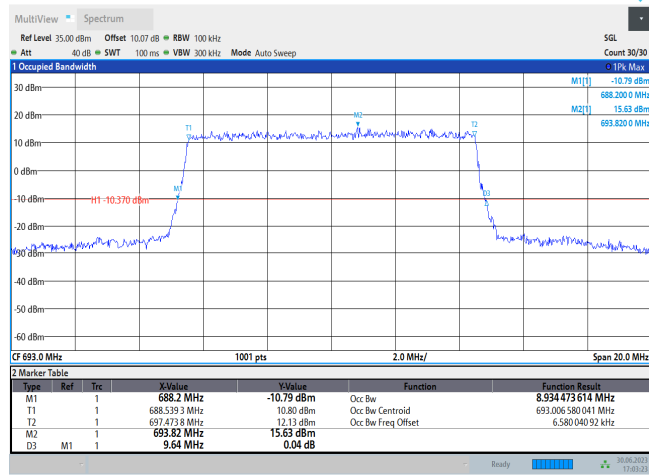
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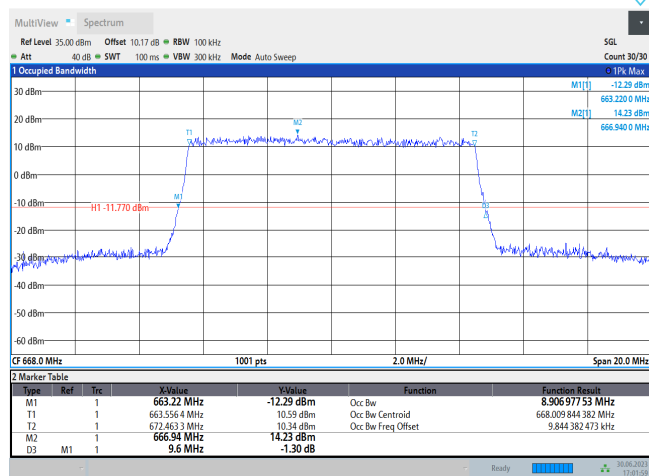
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Band71-10MHz-QPSK-133422-50RB#0



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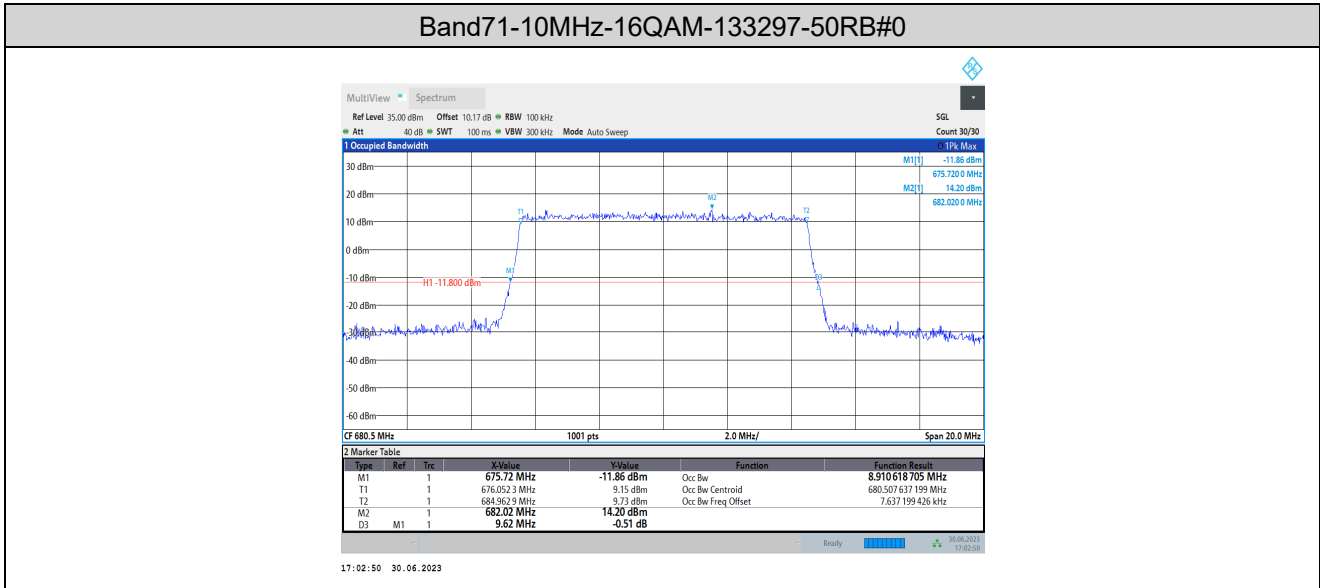
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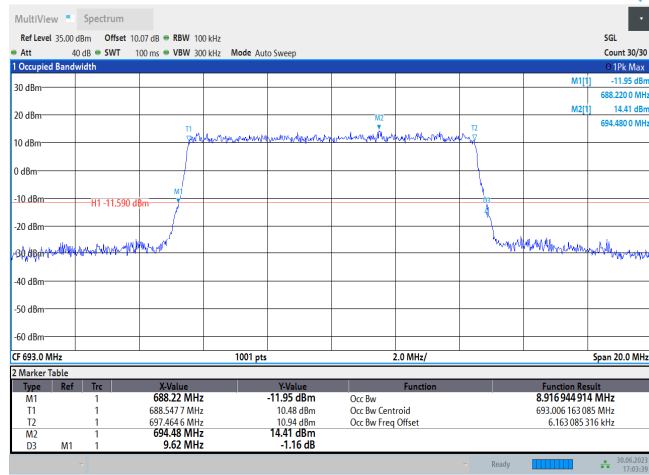
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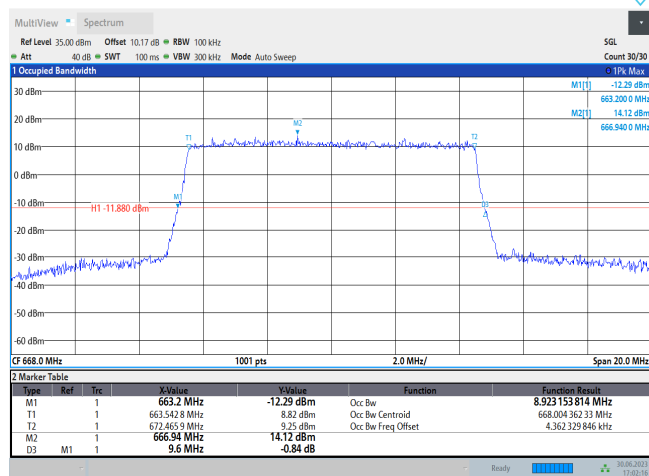


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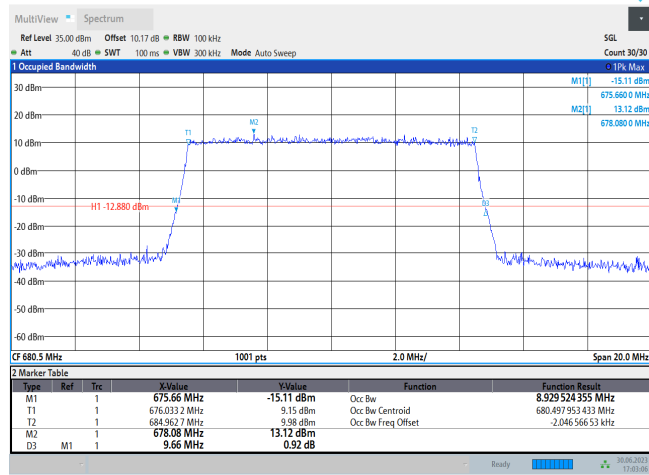
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Band71-10MHz-64QAM-133297-50RB#0

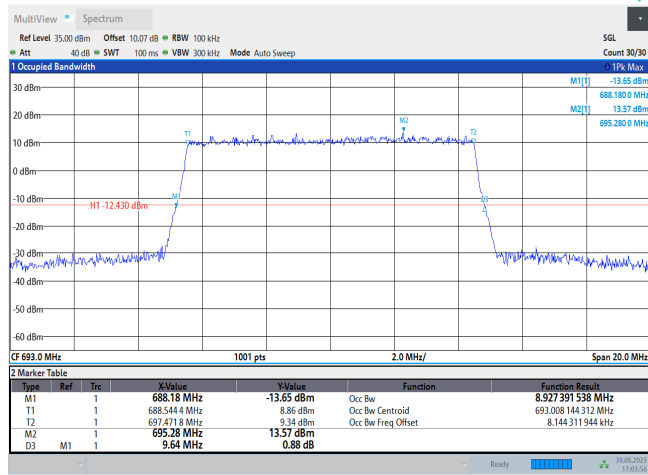


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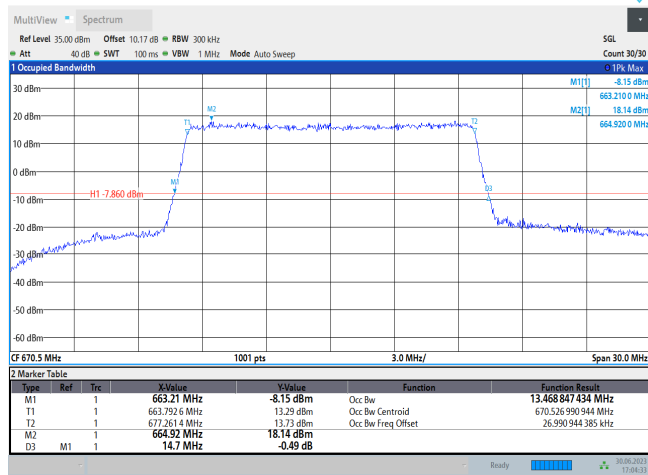
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Band71-15MHz-QPSK-133197-75RB#0

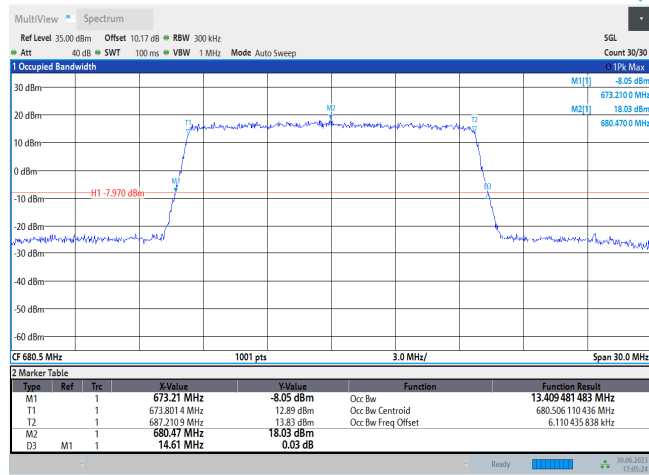


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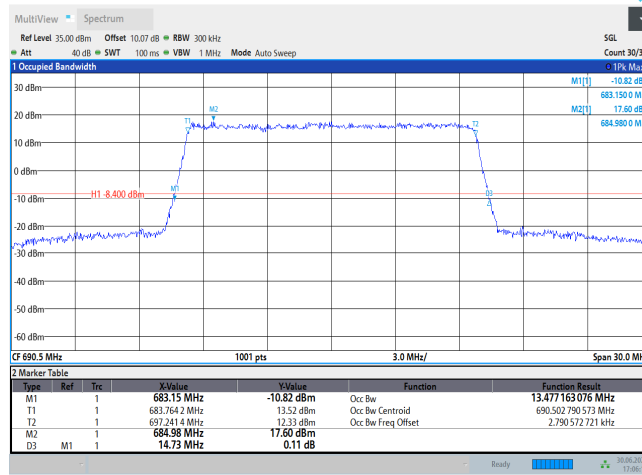


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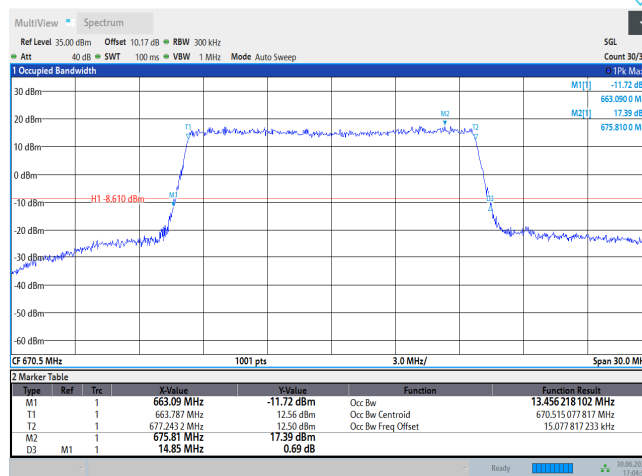
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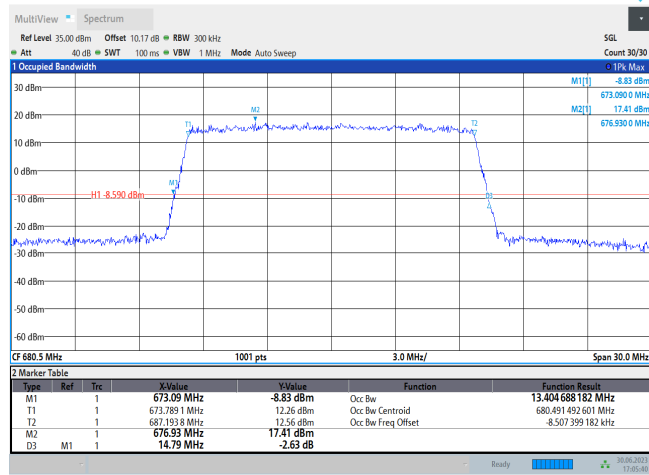


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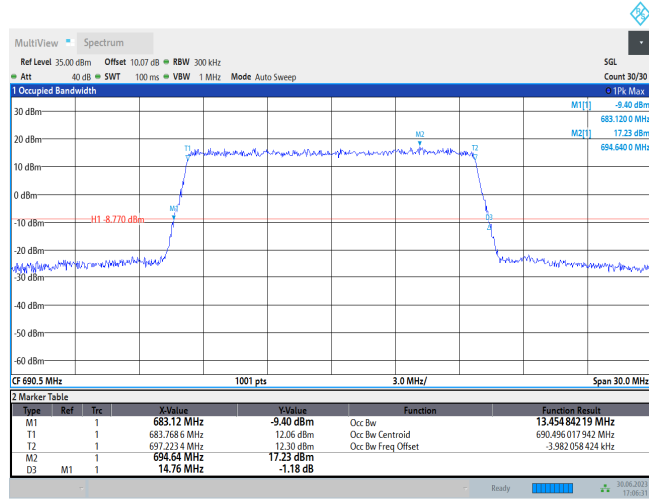


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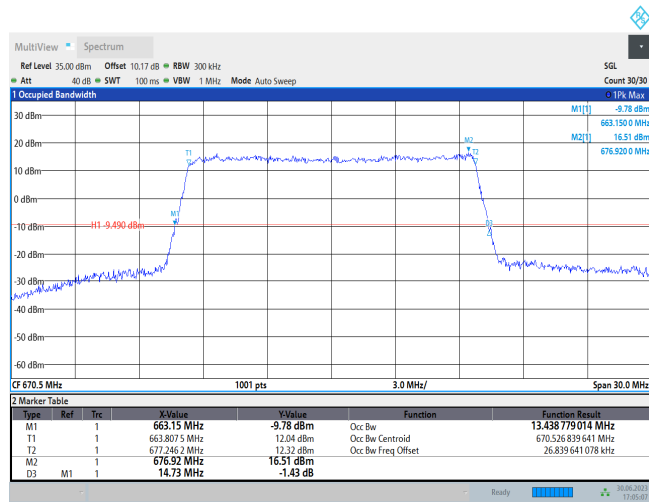
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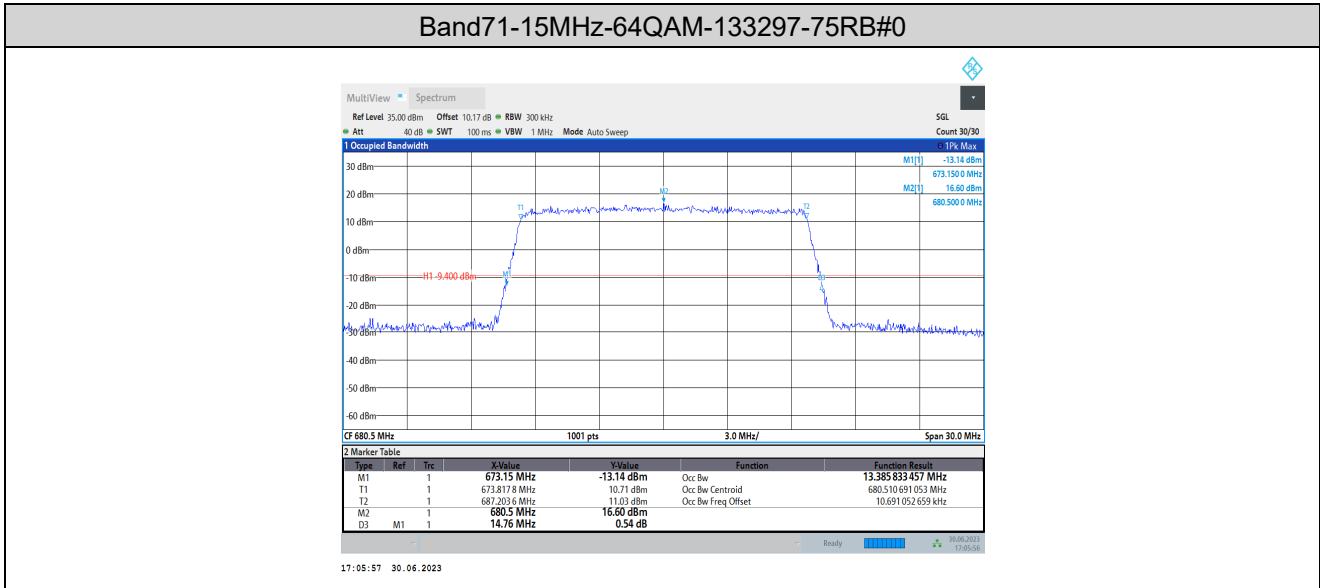
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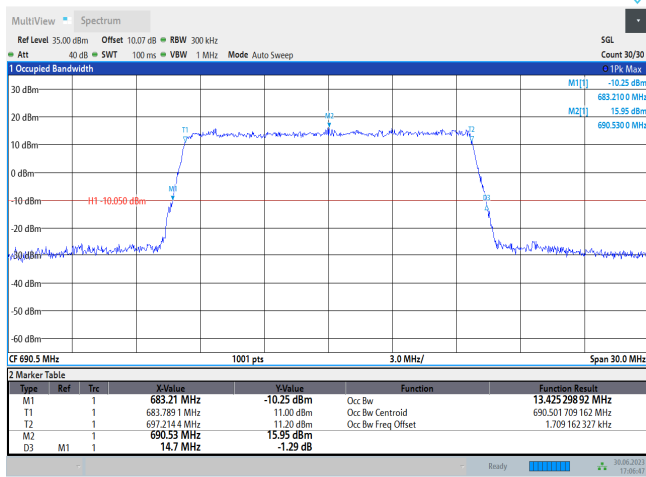
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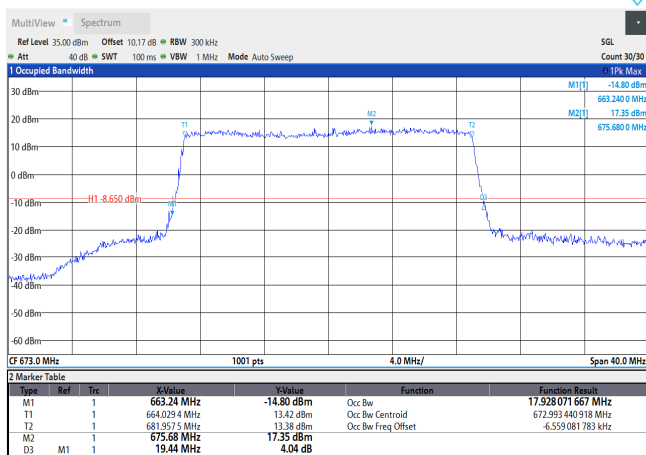


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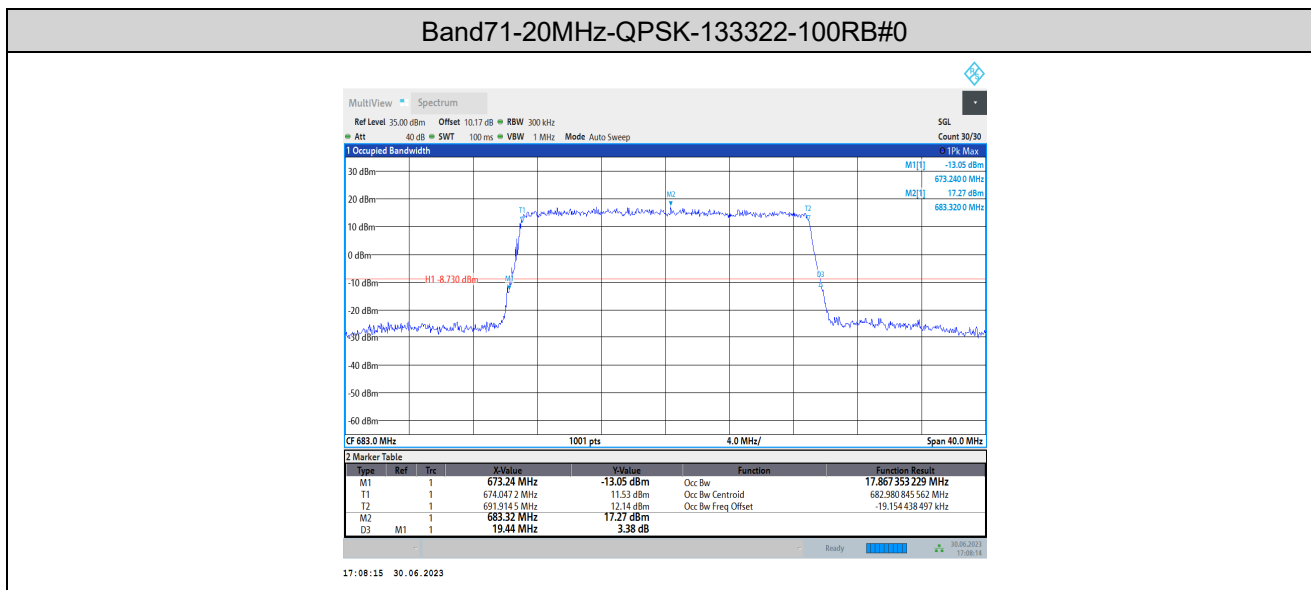


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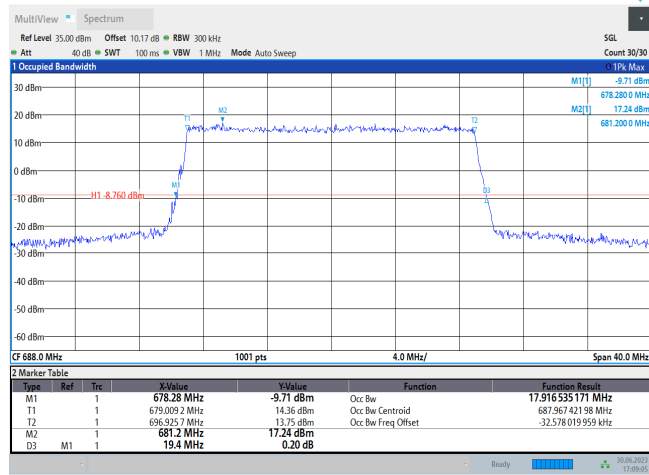
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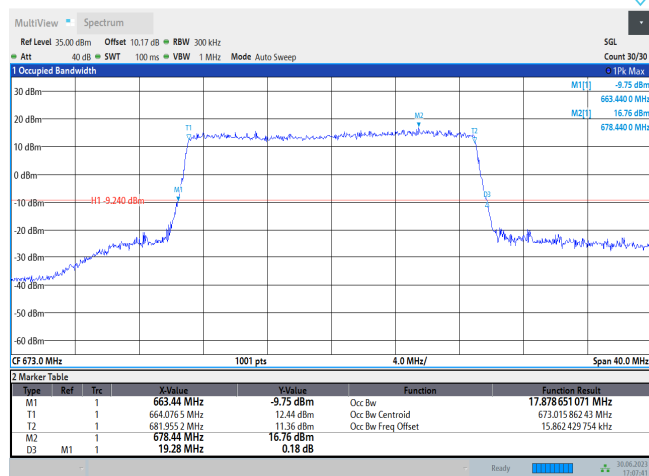
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Band71-20MHz-QPSK-133372-100RB#0



17:09:05 30.06.2023

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



17:07:42 30.06.2023



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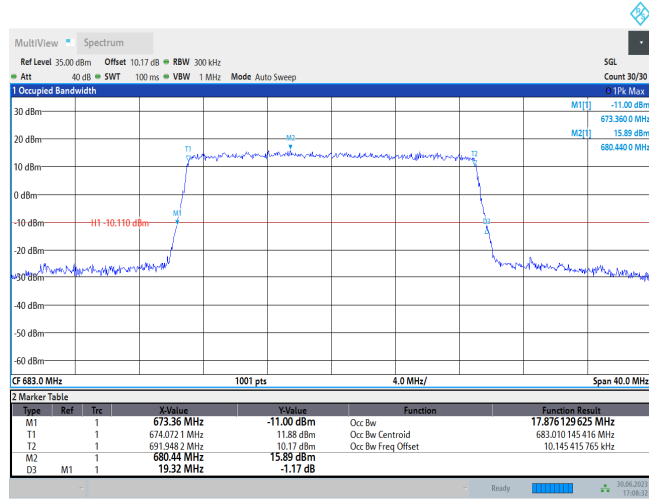
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Band71-20MHz-16QAM-133322-100RB#0

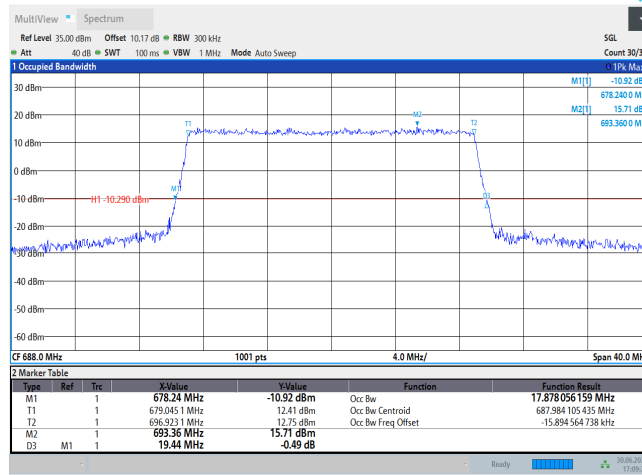


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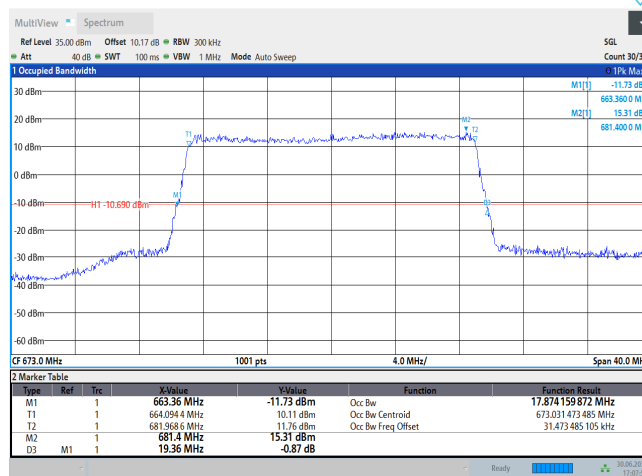
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Band71-20MHz-16QAM-133372-100RB#0



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Band71-20MHz-64QAM-133222-100RB#0



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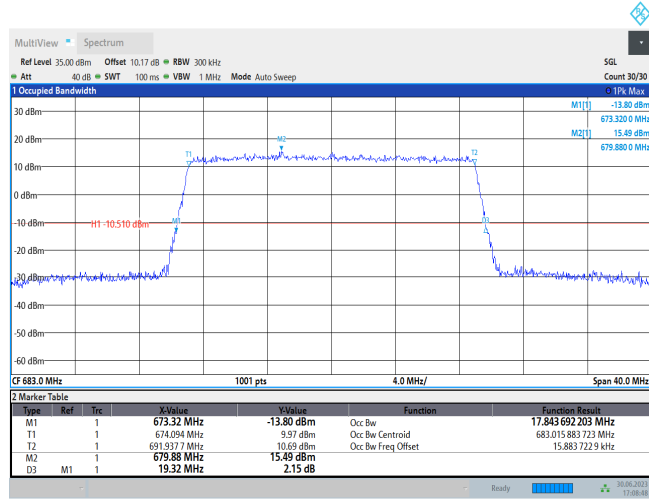


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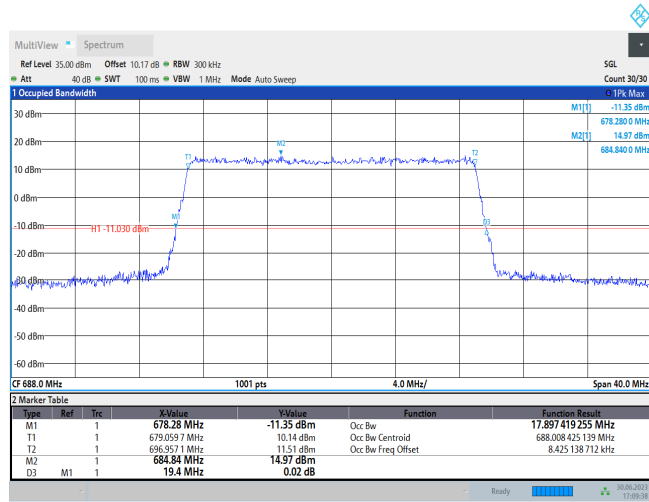
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Band71-20MHz-64QAM-133322-100RB#0



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Band71-20MHz-64QAM-133372-100RB#0



17:09:38 30.06.2023

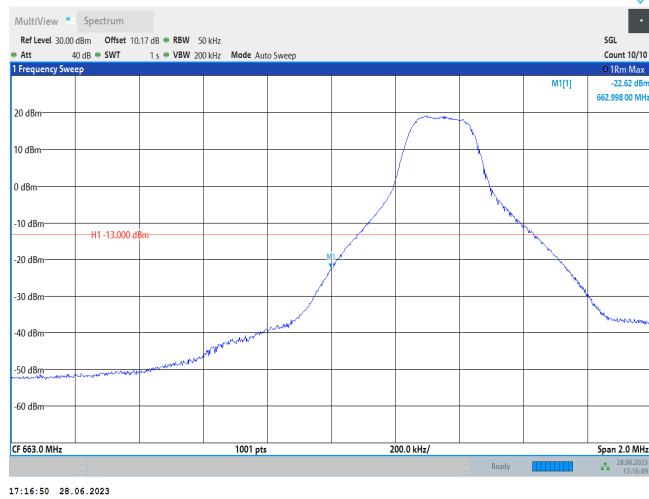


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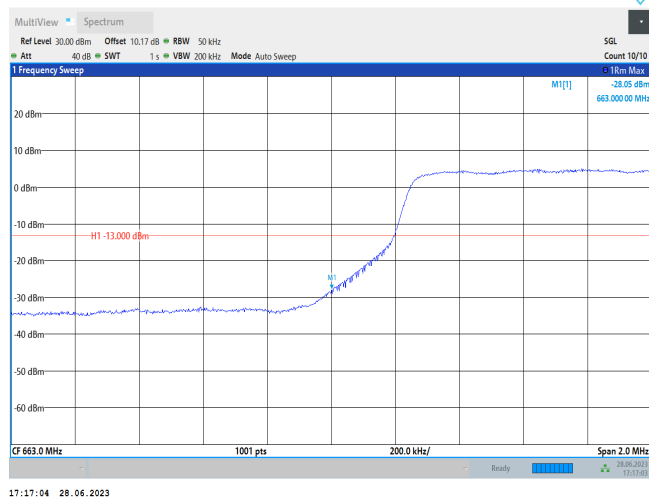
Band Edge

Test Graphs

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



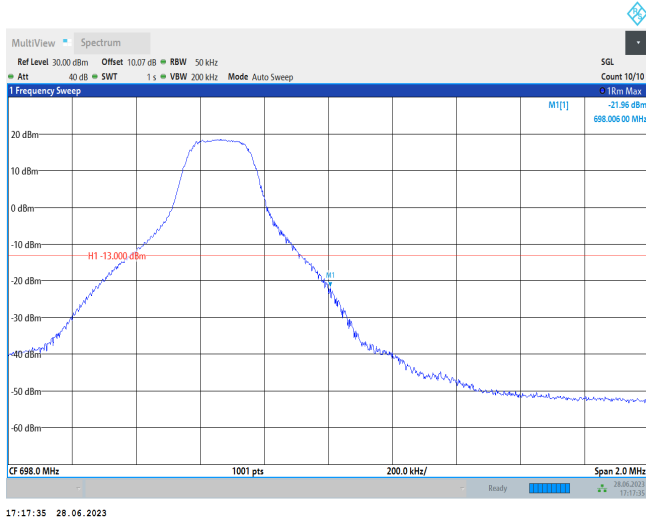
Band71-5MHz-QPSK-133147-25RB#0



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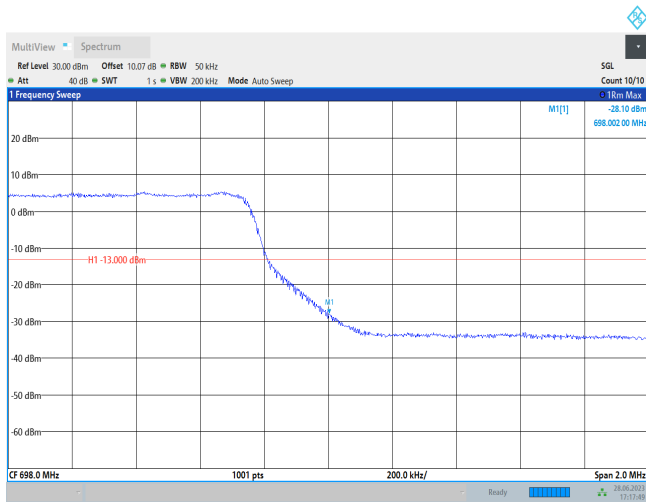
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Band71-5MHz-QPSK-133447-1RB#24



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

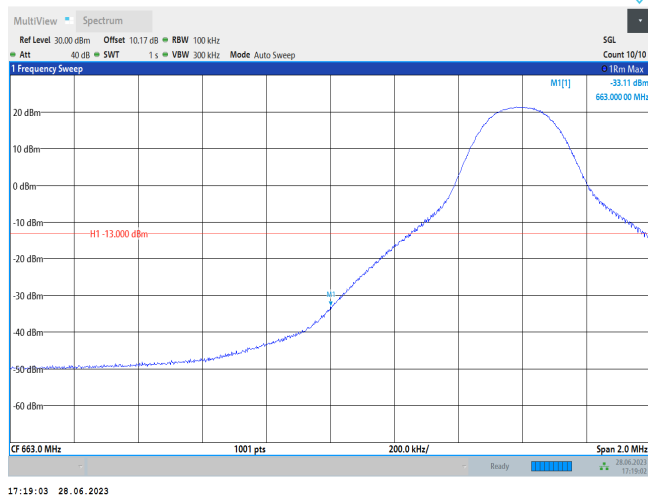


17:17:49 28.06.2023



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



17:19:03 28.06.2023

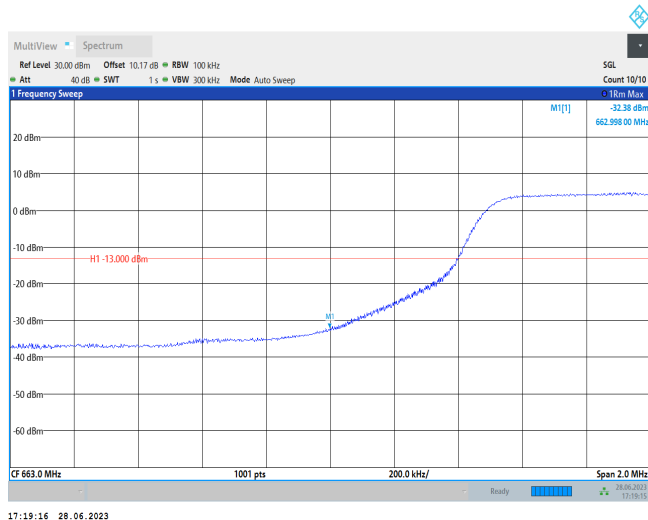


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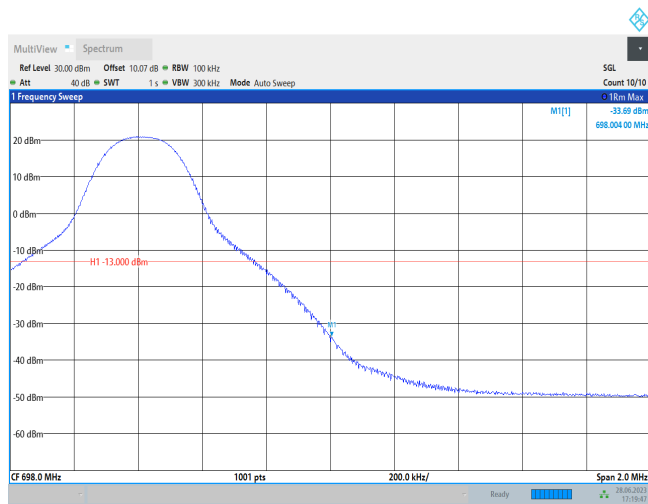
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Band71-10MHz-QPSK-133172-50RB#0



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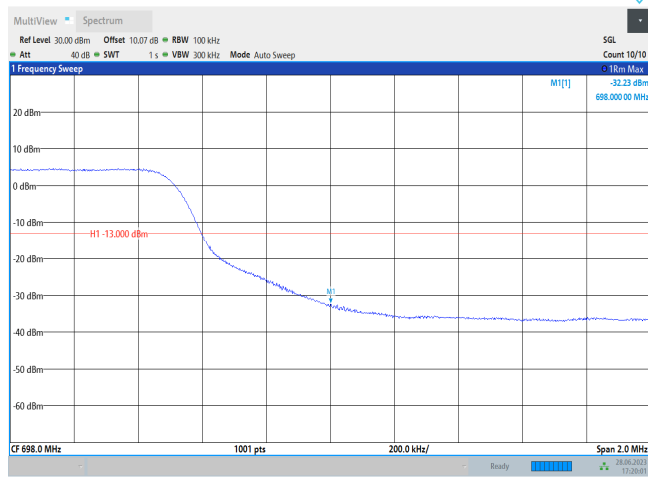
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Band71-10MHz-QPSK-133422-50RB#0

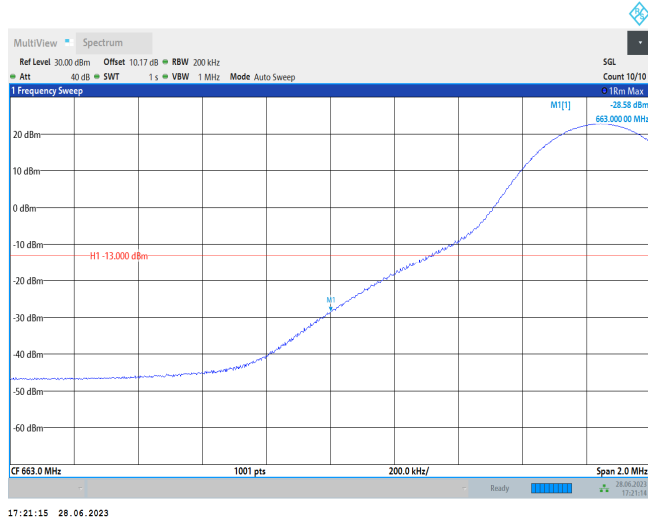


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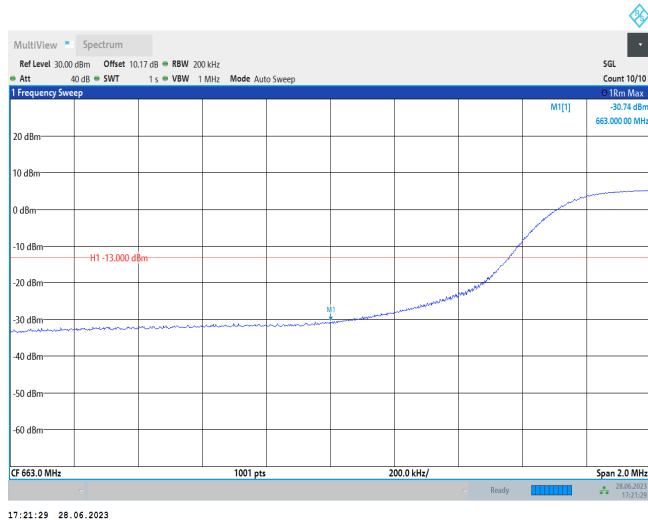


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Band71-15MHz-QPSK-133197-1RB#0



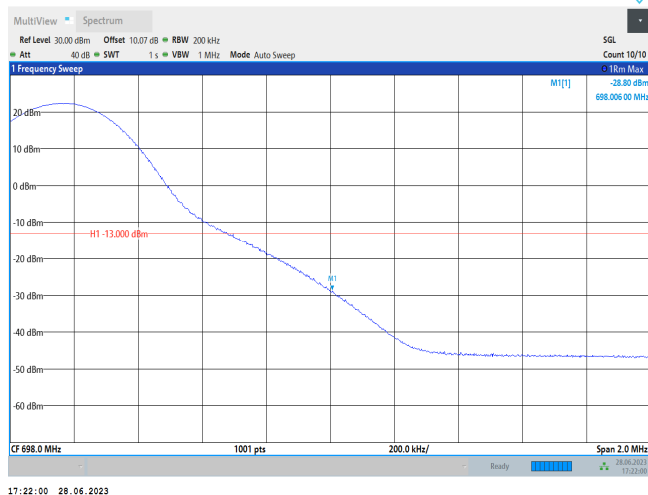
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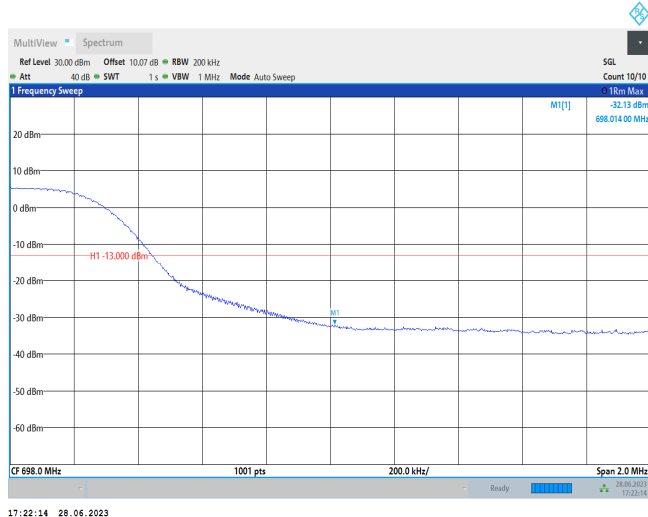
Band71-15MHz-QPSK-133397-1RB#74



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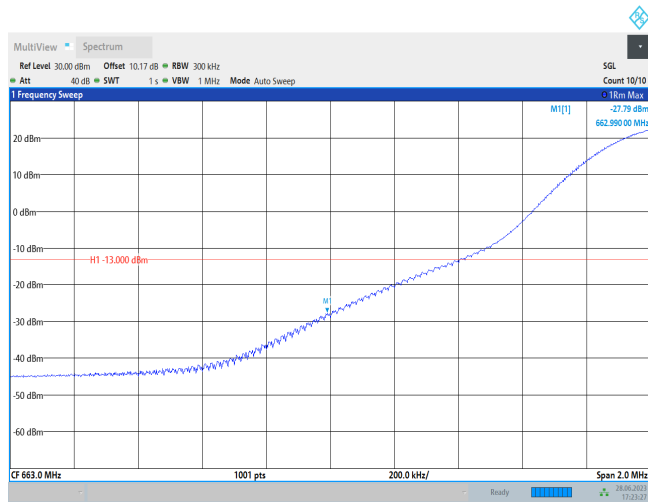
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 Wireless Laboratory

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



17:22:14 28.06.2023

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



17:23:28 28.06.2023



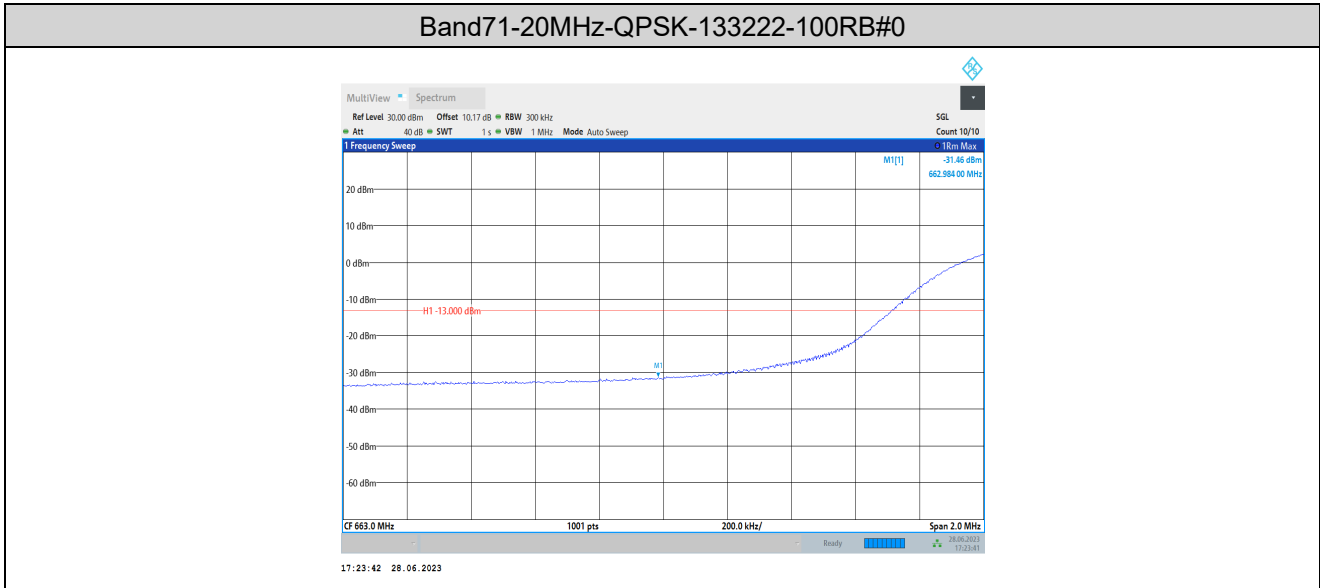
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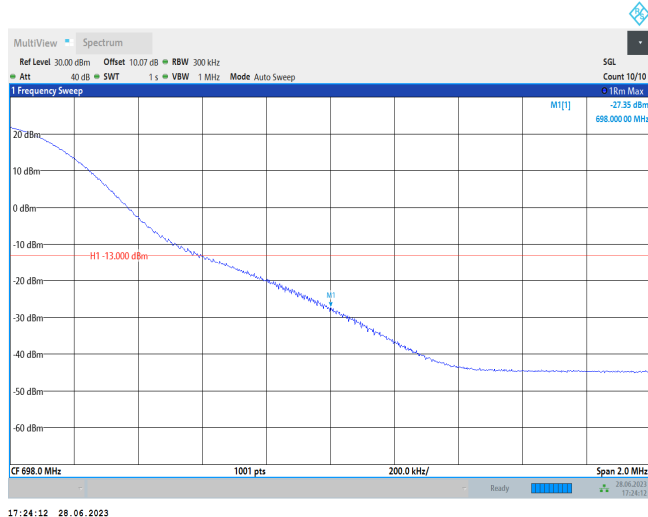
Rev.: 01

Page: 49 of 61



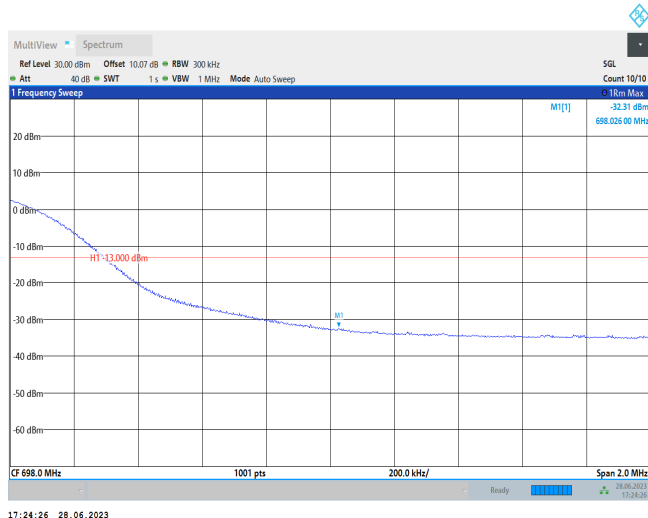
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Band71-20MHz-QPSK-133372-1RB#99



17:24:12 28.06.2023

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



17:24:26 28.06.2023

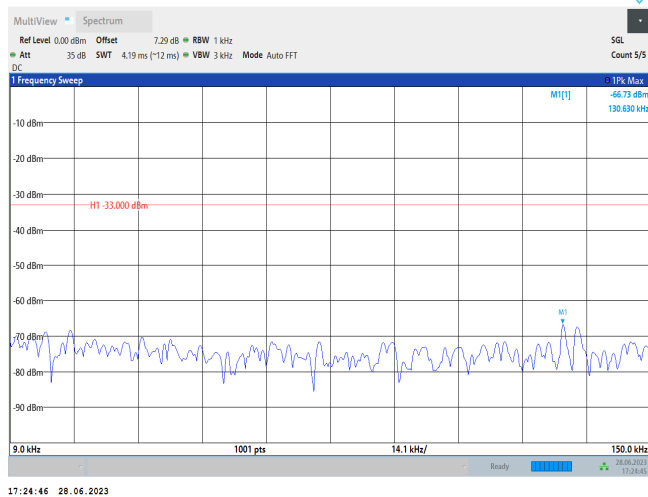


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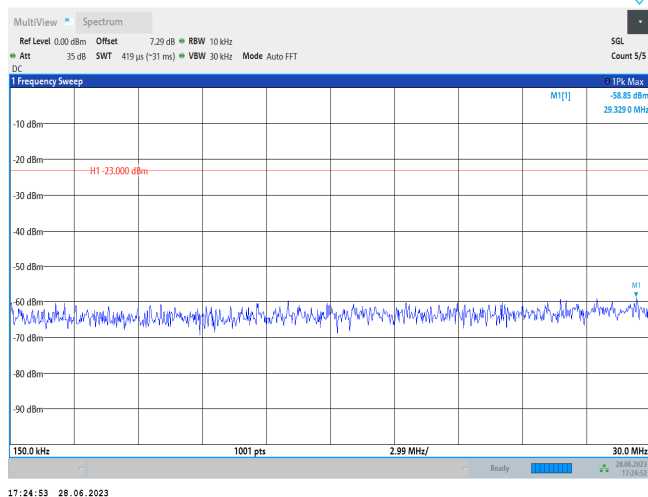
Conducted Spurious Emission

Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz

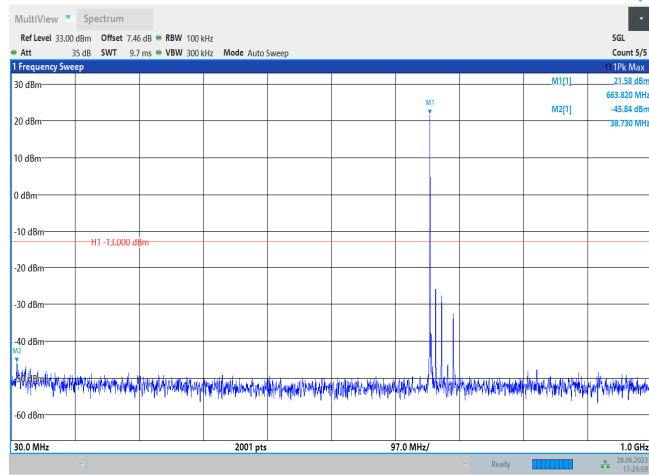


Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz

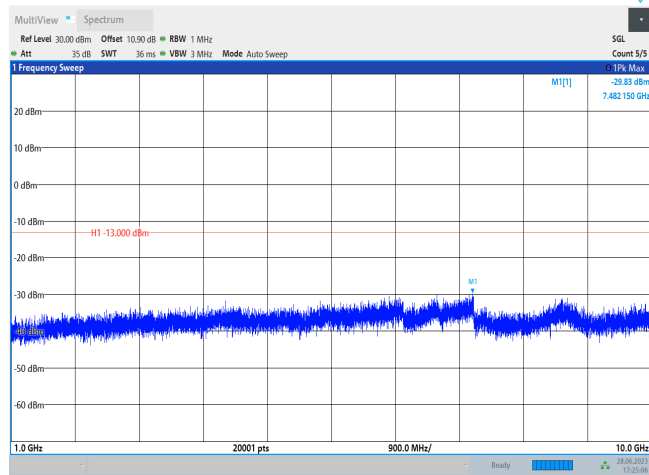


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Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz

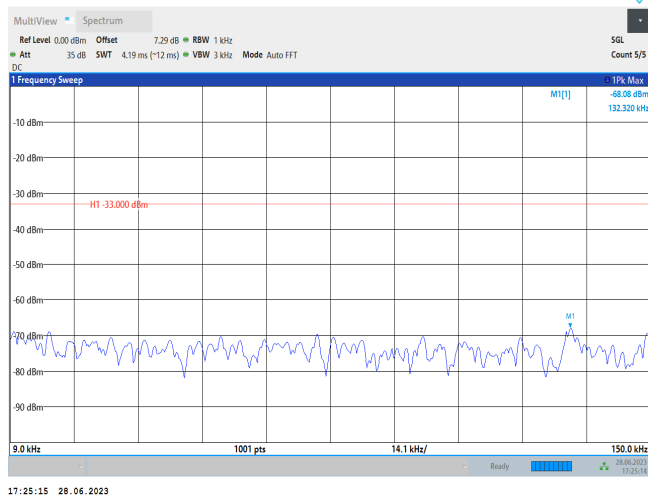


Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



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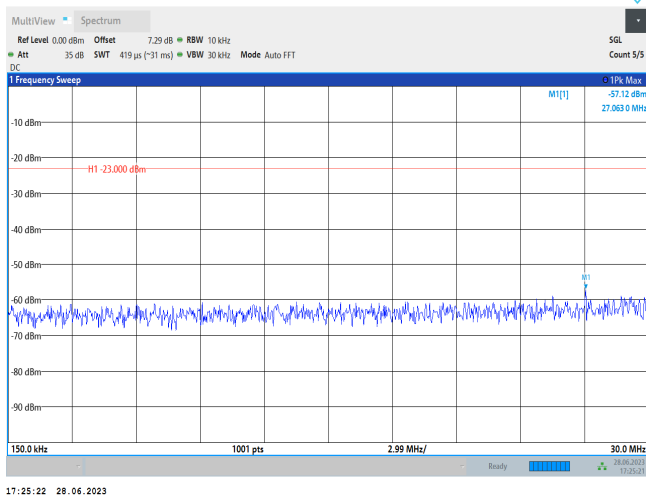
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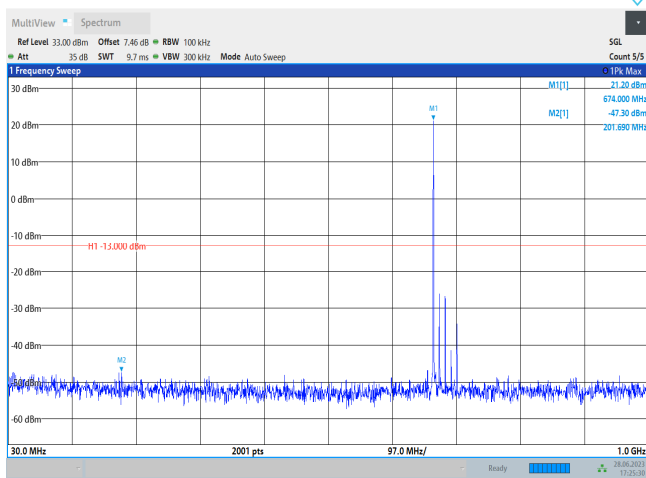
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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元11层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz



17:25:22 28.06.2023

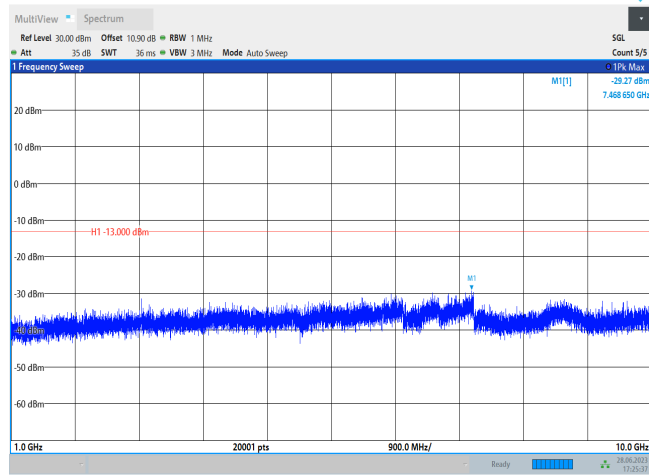
Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



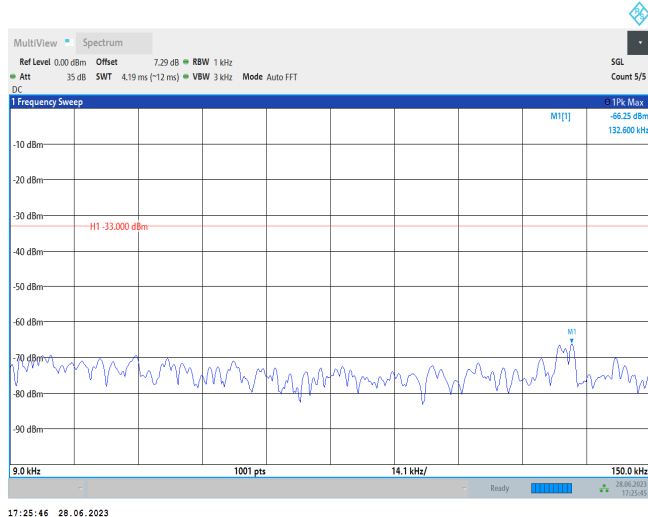
17:25:30 28.06.2023



Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz

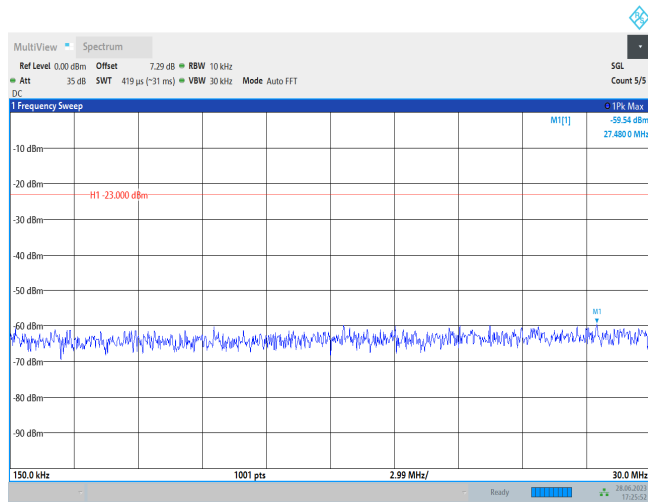


Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



17:25:46 28.06.2023

Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



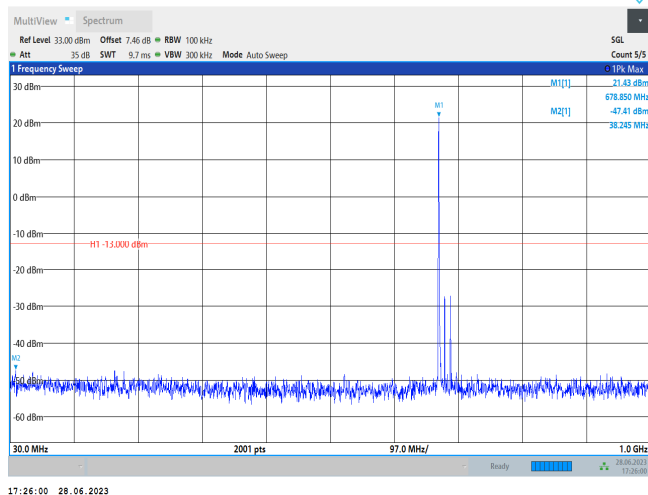
17:25:52 28.06.2023



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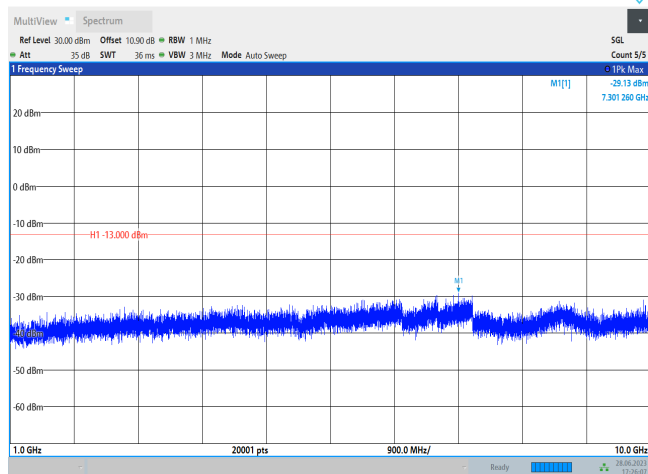
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Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



17:26:00 28.06.2023

Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



17:26:07 28.06.2023



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Field Strength of Spurious Radiation

Test Band = LTE_71_TM1_20MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1327.9731	57.79	-47.74	24.88	-60.33	-13.00	47.33	233	256	Horizontal
2	2449.418	47.87	-46.65	27.60	-66.44	-13.00	53.44	169	99	Horizontal
3	3444.1378	47.32	-45.50	28.86	-64.58	-13.00	51.58	178	64	Horizontal
4	4389.8956	47.57	-43.23	30.06	-60.86	-13.00	47.86	119	269	Horizontal
5	7364.3346	44.95	-38.50	36.56	-52.25	-13.00	39.25	206	37	Horizontal
6	9394.4558	42.93	-35.51	37.31	-50.53	-13.00	37.53	334	148	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1328.3331	56.39	-47.74	24.88	-61.73	-13.00	48.73	288	46	Vertical
2	1992.1997	51.29	-46.94	26.34	-64.57	-13.00	51.57	114	324	Vertical
3	2762.6305	47.51	-46.11	28.15	-65.71	-13.00	52.71	306	140	Vertical
4	5682.3473	46.87	-41.36	32.50	-57.25	-13.00	44.25	227	69	Vertical
5	7867.2747	44.09	-37.62	36.70	-52.09	-13.00	39.09	179	91	Vertical
6	9485.8994	44.12	-35.75	37.72	-49.17	-13.00	36.17	203	284	Vertical



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Test Band = LTE_71_TM1_20MHz

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1348.1339	49.90	-47.64	25.08	-67.92	-13.00	54.92	214	170	Horizontal
2	2016.3207	48.77	-46.92	26.43	-66.98	-13.00	53.98	104	72	Horizontal
3	2847.9539	48.03	-46.03	28.30	-64.96	-13.00	51.96	189	94	Horizontal
4	4780.1512	47.90	-42.90	30.68	-59.58	-13.00	46.58	289	76	Horizontal
5	6690.7476	46.01	-39.99	35.06	-54.18	-13.00	41.18	365	336	Horizontal
6	9993.8798	43.92	-35.66	38.69	-48.31	-13.00	35.31	187	237	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1348.1339	50.45	-47.64	25.08	-67.37	-13.00	54.37	214	58	Vertical
2	1869.4348	48.98	-47.17	25.52	-67.93	-13.00	54.93	398	268	Vertical
3	2518.1807	49.56	-46.60	27.80	-64.50	-13.00	51.50	124	310	Vertical
4	3924.397	49.12	-44.30	29.80	-60.64	-13.00	47.64	267	108	Vertical
5	5867.3947	47.92	-41.15	32.67	-55.82	-13.00	42.82	174	230	Vertical
6	9911.0764	43.86	-35.33	38.61	-48.12	-13.00	35.12	321	126	Vertical



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Test Band = LTE_71_TM1_20MHz

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1358.2143	50.28	-47.59	25.07	-67.50	-13.00	54.50	120	242	Horizontal
2	2321.9729	48.66	-46.63	27.32	-65.91	-13.00	52.91	178	161	Horizontal
3	3000.24	47.89	-45.67	28.60	-64.44	-13.00	51.44	248	54	Horizontal
4	4783.3913	48.20	-42.89	30.70	-59.25	-13.00	46.25	348	32	Horizontal
5	7049.322	45.80	-39.30	36.19	-52.57	-13.00	39.57	260	103	Horizontal
6	8758.6703	43.93	-36.12	36.75	-50.70	-13.00	37.70	197	103	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1357.8543	51.14	-47.60	25.07	-66.65	-13.00	53.65	364	38	Vertical
2	1782.3113	50.80	-47.35	25.26	-66.55	-13.00	53.55	288	47	Vertical
3	2518.5407	56.66	-46.59	27.80	-57.39	-13.00	44.39	210	292	Vertical
4	3906.7563	49.39	-44.38	29.73	-60.52	-13.00	47.52	312	248	Vertical
5	6076.9231	47.44	-40.51	33.45	-54.88	-13.00	41.88	188	136	Vertical
6	7444.9778	45.70	-38.36	36.79	-51.13	-13.00	38.13	164	221	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.06	-0.003016	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-6.49	-0.009502	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	3.58	0.005242	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	2.88	0.004217	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.83	-0.002679	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-4.15	-0.006076	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-4.49	-0.006574	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	3.16	0.004627	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-4.21	-0.006164	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	3.05	0.004466	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-4.61	-0.006750	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-4.12	-0.006032	PASS

---End of Attachment---



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