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Appendix B.6

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	24.28	25.13	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.4	25.25	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.28	25.13	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	24.37	25.22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.27	25.12	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.36	25.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.31	25.16	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	24.28	25.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.24	25.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.31	25.16	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.24	25.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	24.33	25.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.29	24.14	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.36	24.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.33	24.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.22	23.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.36	24.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.49	24.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.36	24.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.19	23.04	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.29	24.14	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.31	24.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.23	24.08	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.15	23	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.31	23.16	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#2	22.27	23.12	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.2	23.05	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.17	22.02	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.29	23.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.29	23.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.24	23.09	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.14	21.99	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.14	22.99	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.17	23.02	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.18	23.03	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.09	21.94	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.38	25.23	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.31	25.16	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.29	25.14	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	24.48	25.33	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.31	25.16	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.28	25.13	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.26	25.11	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	24.35	25.2	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.3	25.15	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.32	25.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.32	25.17	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	24.44	25.29	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.31	24.16	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.32	24.17	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.29	24.14	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.23	23.08	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.41	24.26	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.29	24.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.25	24.1	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.24	23.09	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.26	24.11	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.36	24.21	34.77	PASS



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Band12	3MHz	16QAM	23165	1RB#14	23.35	24.2	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.22	23.07	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.37	23.22	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.35	23.2	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.21	23.06	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.23	22.08	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.32	23.17	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.23	23.08	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.27	23.12	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.14	21.99	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.27	23.12	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.27	23.12	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.25	23.1	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.23	22.08	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.4	25.25	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.36	25.21	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.32	25.17	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	24.41	25.26	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.36	25.21	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.33	25.18	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.23	25.08	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	24.39	25.24	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.23	25.08	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.32	25.17	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.27	25.12	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	24.34	25.19	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.46	24.31	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.28	24.13	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.31	24.16	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.2	23.05	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.38	24.23	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.47	24.32	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.26	24.11	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	22.22	23.07	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.19	24.04	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.29	24.14	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.3	24.15	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.08	22.93	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.36	23.21	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.23	23.08	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.27	23.12	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.21	22.06	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.38	23.23	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.34	23.19	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.24	23.09	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.21	22.06	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.2	23.05	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.29	23.14	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.2	23.05	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.06	21.91	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.4	25.25	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.37	25.22	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.3	25.15	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	24.46	25.31	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.29	25.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.38	25.23	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.22	25.07	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	24.39	25.24	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.34	25.19	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.27	25.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.31	25.16	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	24.35	25.2	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.38	24.23	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.42	24.27	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.34	24.19	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.19	23.04	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#0	23.39	24.24	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.38	24.23	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.16	24.01	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.2	23.05	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.42	24.27	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.29	24.14	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.28	24.13	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.12	22.97	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.35	23.2	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.35	23.2	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.29	23.14	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.18	22.03	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.28	23.13	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.27	23.12	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.13	22.98	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.2	22.05	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.34	23.19	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.21	23.06	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.25	23.1	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.15	22	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
Band12	10MHz	QPSK	23060	50RB#0	5.00	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.00	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.06	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.82	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.90	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.86	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.30	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.32	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.26	13	PASS



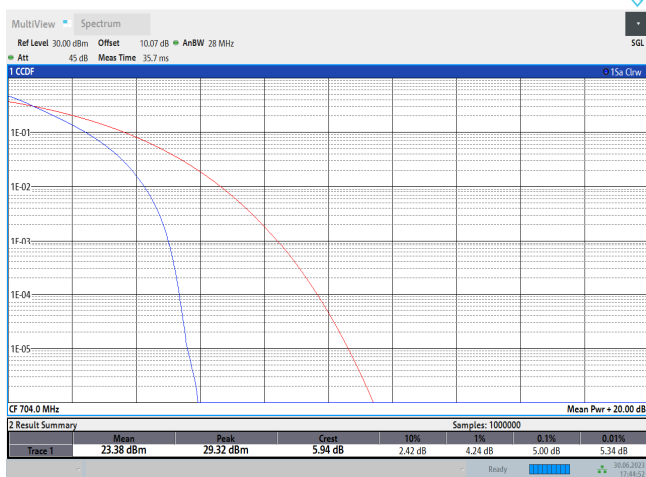
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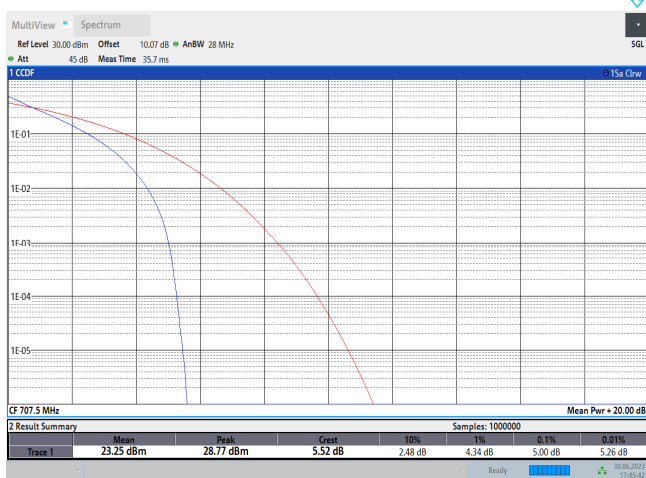
Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



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Band12-10MHz-QPSK-23095-50RB#0

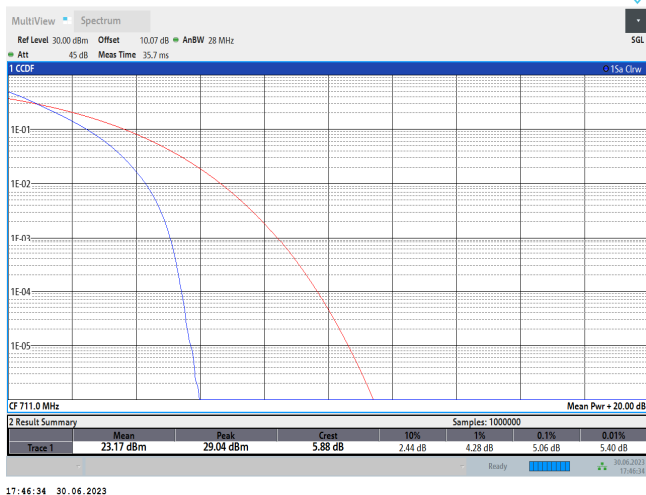


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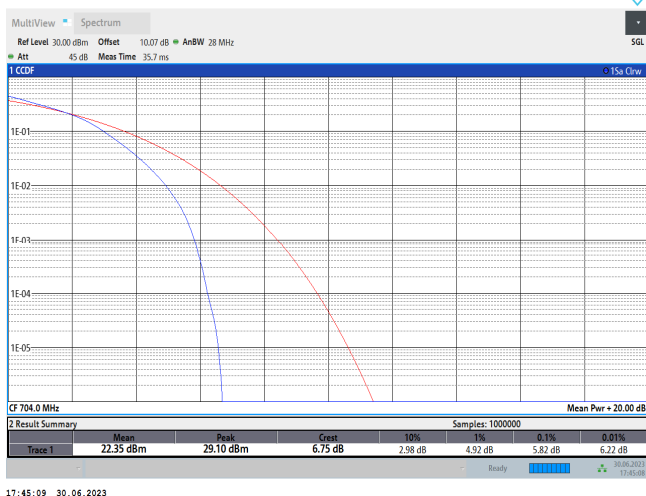


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Band12-10MHz-QPSK-23130-50RB#0



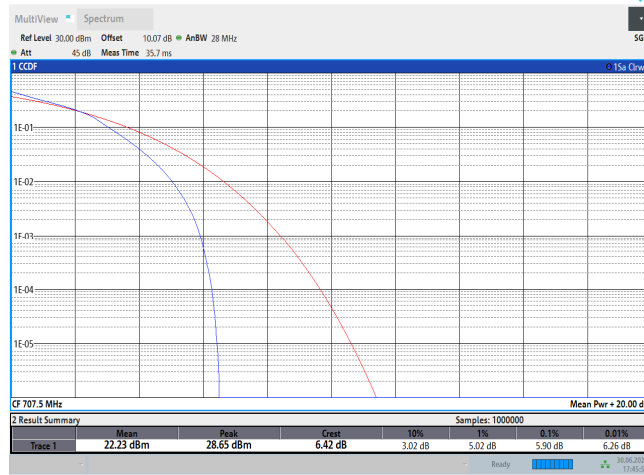
Band12-10MHz-16QAM-23060-50RB#0



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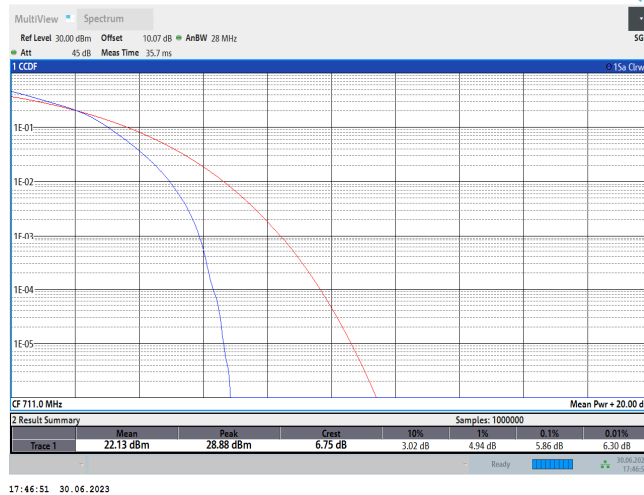
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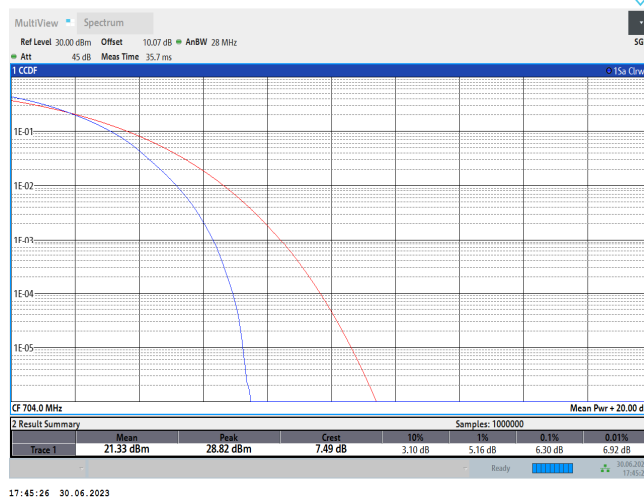
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Band12-10MHz-16QAM-23130-50RB#0



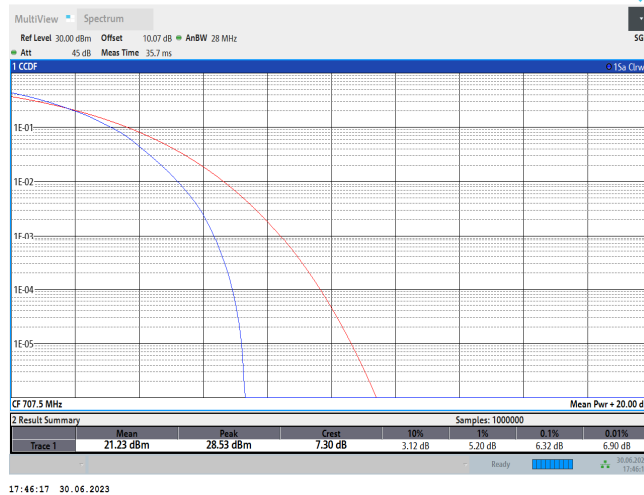
Band12-10MHz-64QAM-23060-50RB#0



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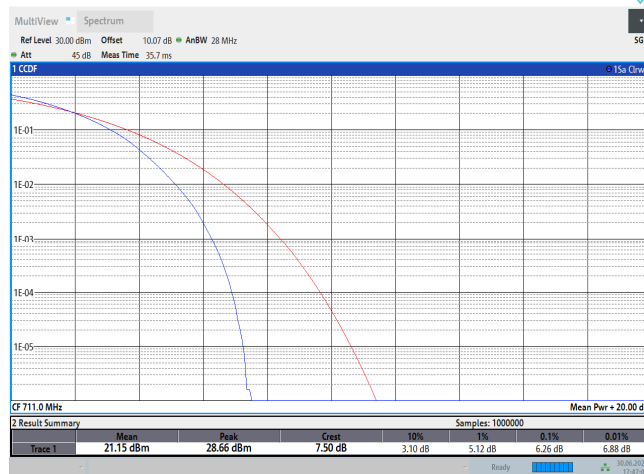
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Band12-10MHz-64QAM-23095-50RB#0



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Band12-10MHz-64QAM-23130-50RB#0



17:47:08 30.06.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS



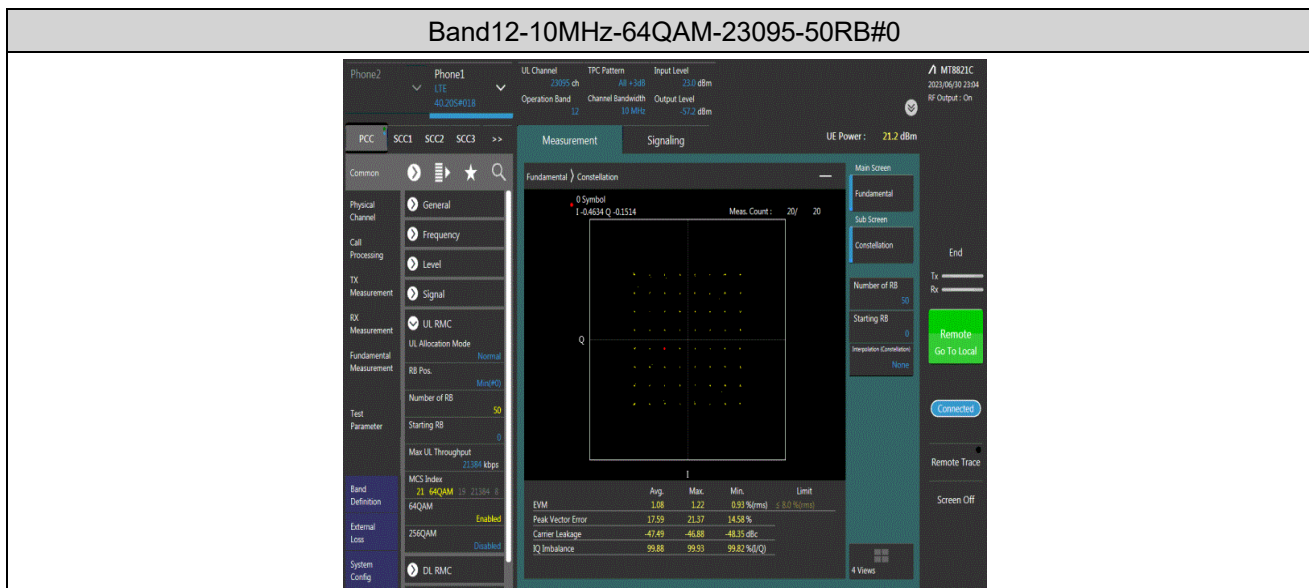
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.092	1.25	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.09	1.24	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.09	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.694	2.99	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.694	2.99	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.694	2.98	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.687	3.00	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.69	2.98	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.688	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.688	2.96	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.692	2.97	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.47	4.87	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.479	4.91	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.471	4.86	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.89	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.471	4.93	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.466	4.89	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.477	4.90	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.483	4.92	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.472	4.90	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.919	9.64	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.937	9.70	PASS



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Band12	10MHz	QPSK	23130	50RB#0	8.907	9.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.907	9.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.94	9.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.901	9.58	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.928	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.955	9.68	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.91	9.58	PASS



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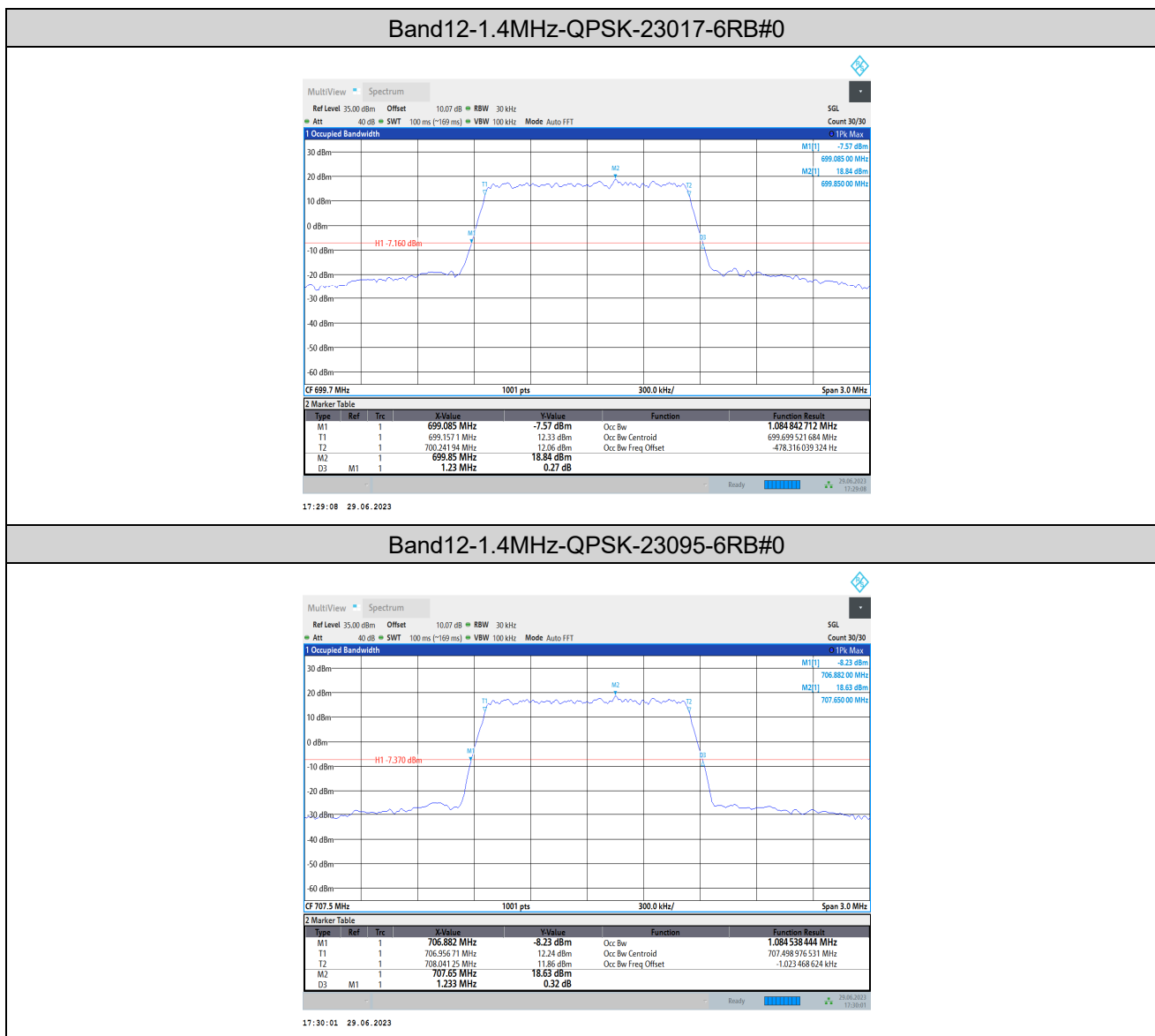
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Test Graphs



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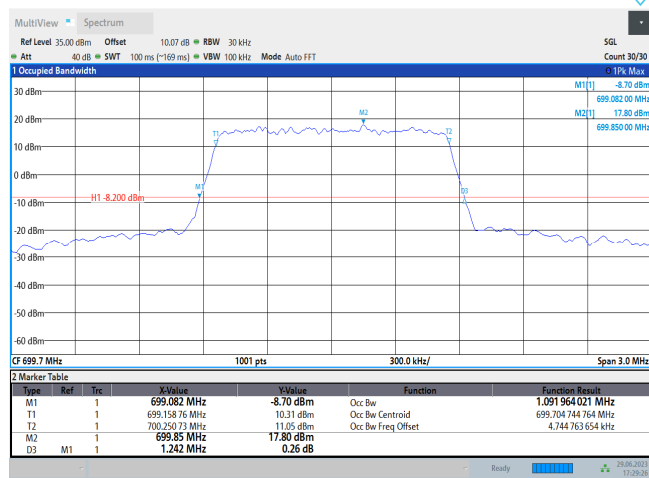
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Band12-1.4MHz-QPSK-23173-6RB#0



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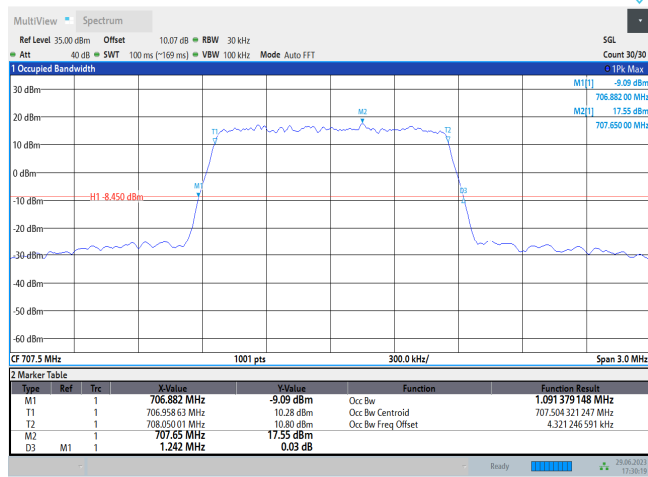


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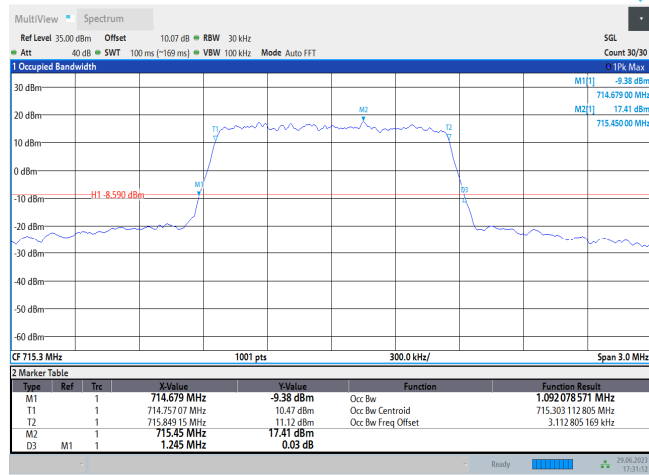


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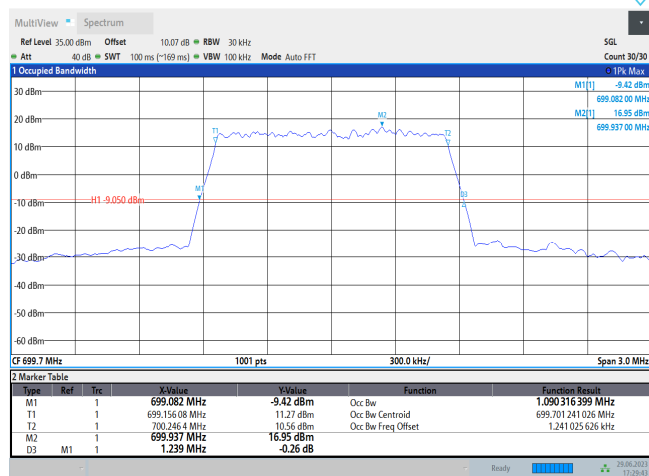
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Band12-1.4MHz-16QAM-23173-6RB#0



17:31:13 29.06.2023

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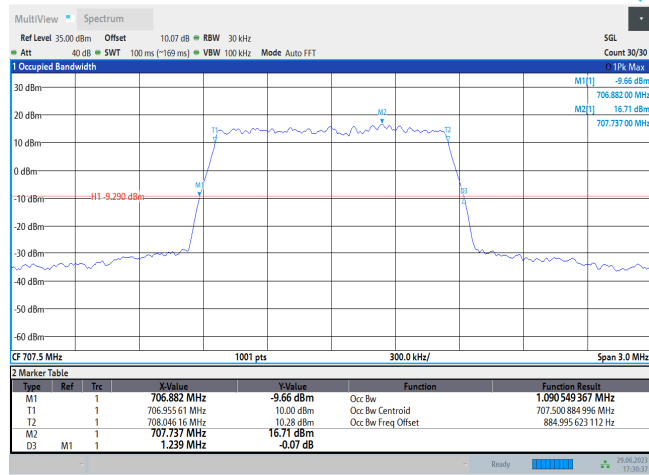


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Band12-1.4MHz-64QAM-23095-6RB#0



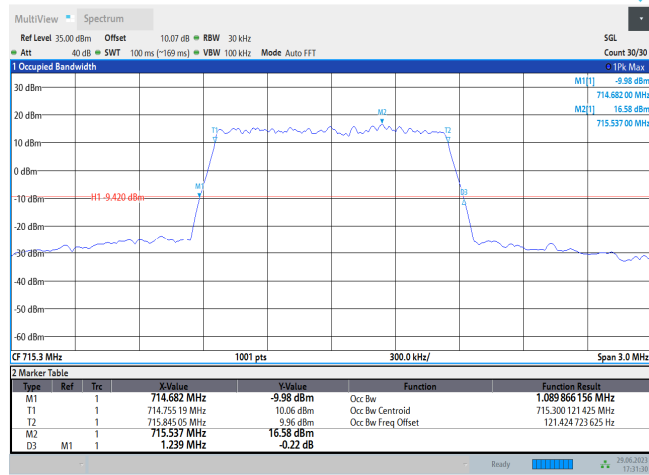
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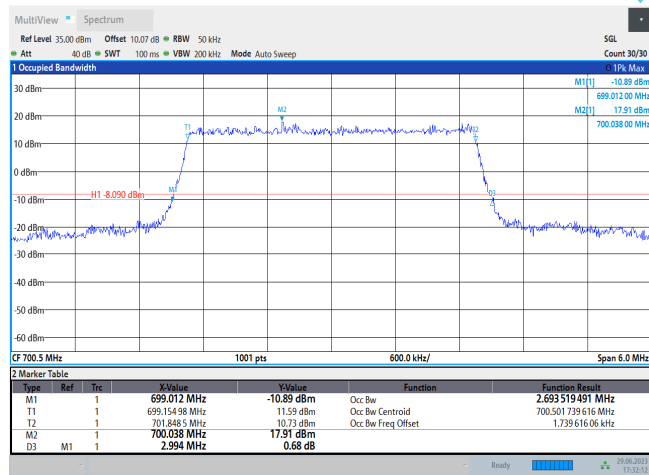
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Band12-3MHz-QPSK-23025-15RB#0



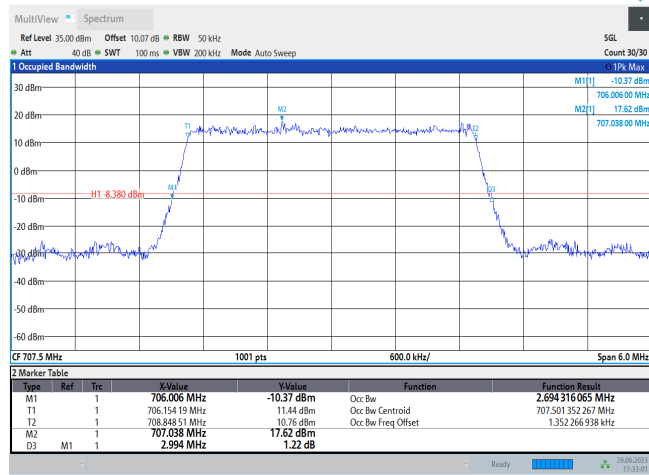
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Band12-3MHz-QPSK-23095-15RB#0



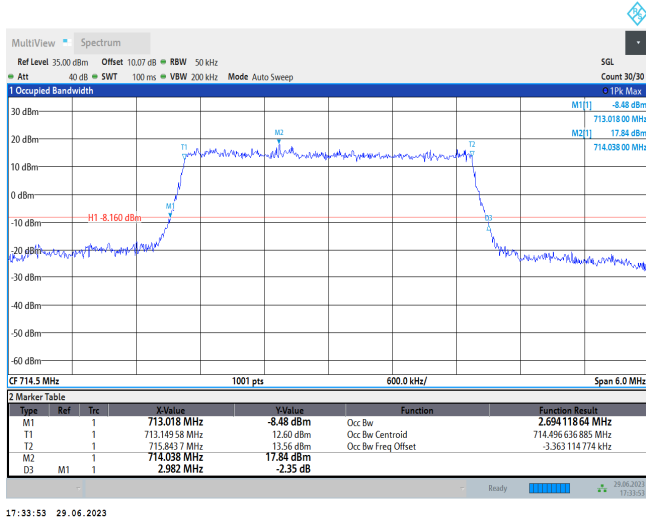
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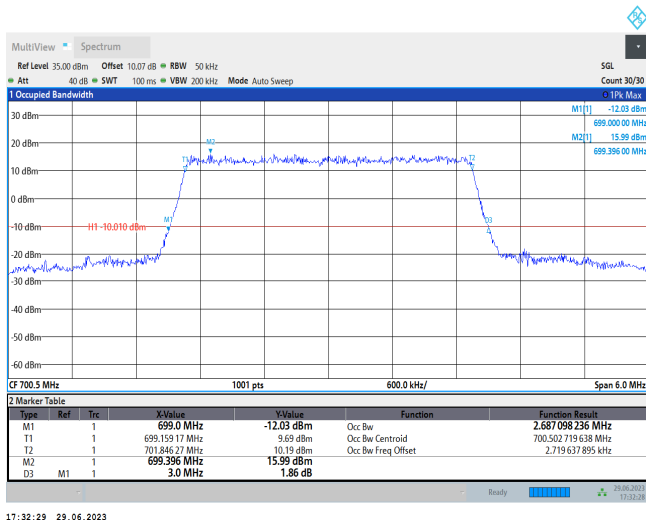
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Band12-3MHz-QPSK-23165-15RB#0



Band12-3MHz-16QAM-23025-15RB#0

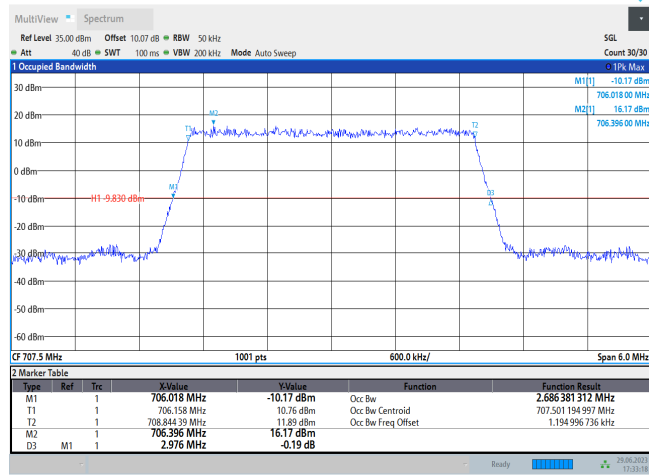


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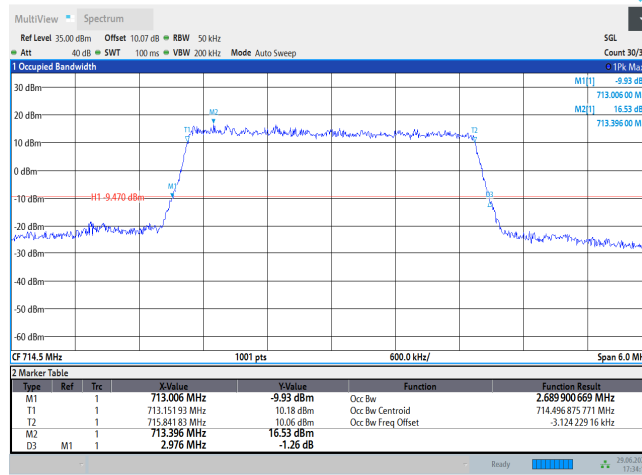
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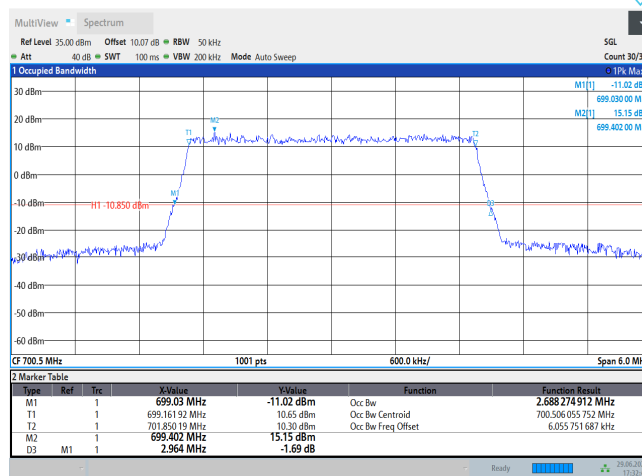
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Band12-3MHz-64QAM-23025-15RB#0



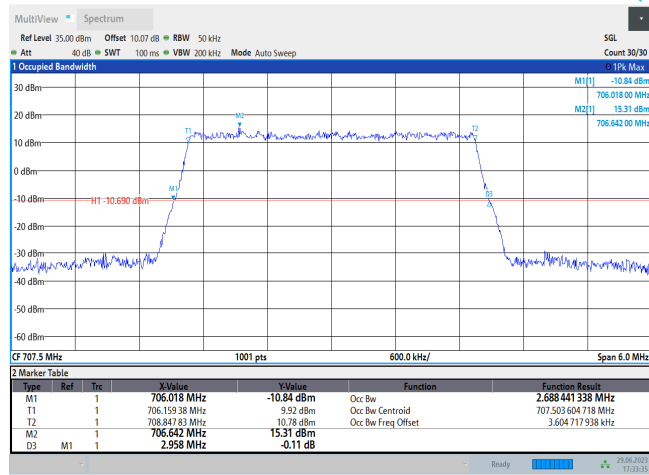
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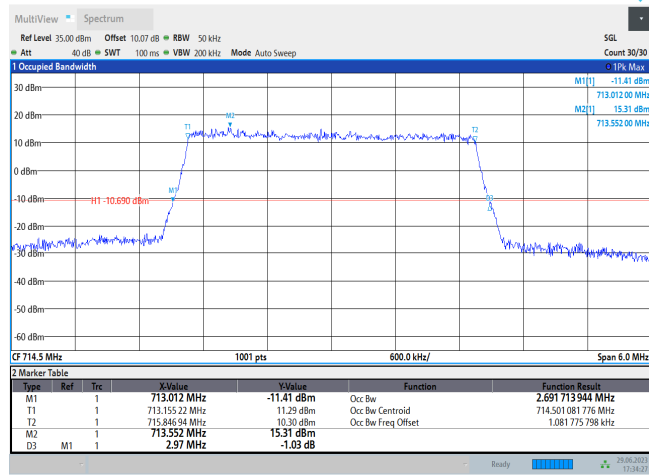
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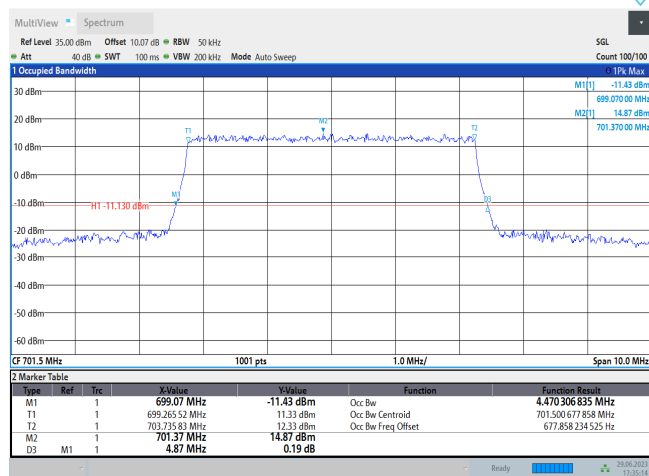
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Band12-5MHz-QPSK-23035-25RB#0



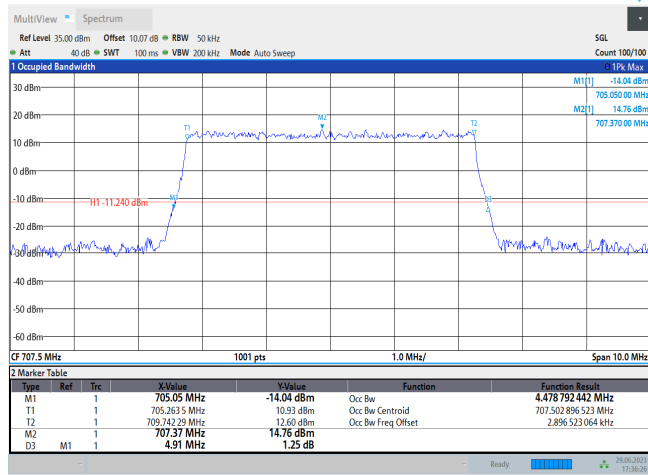
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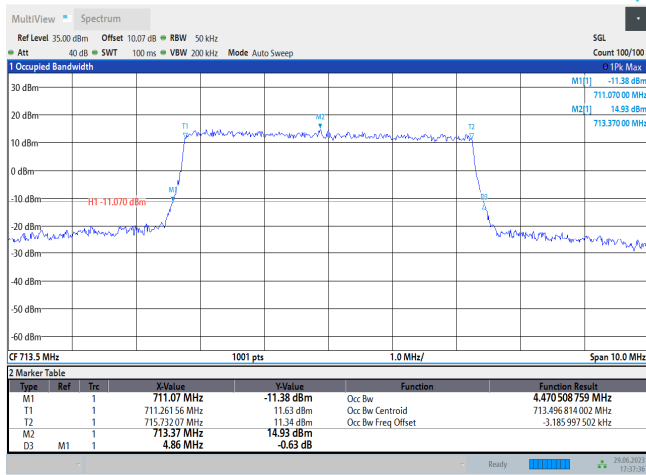
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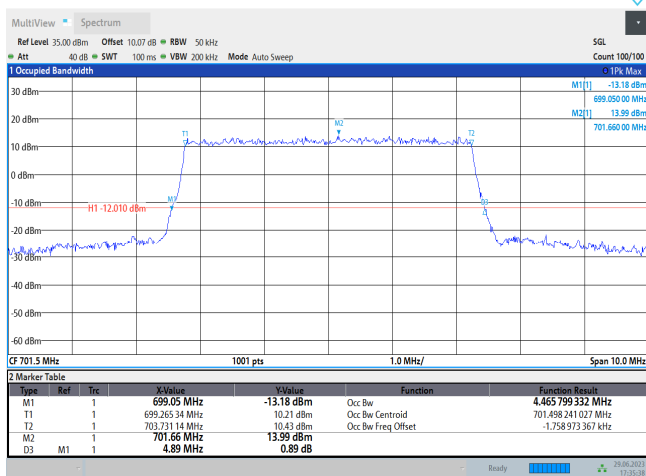


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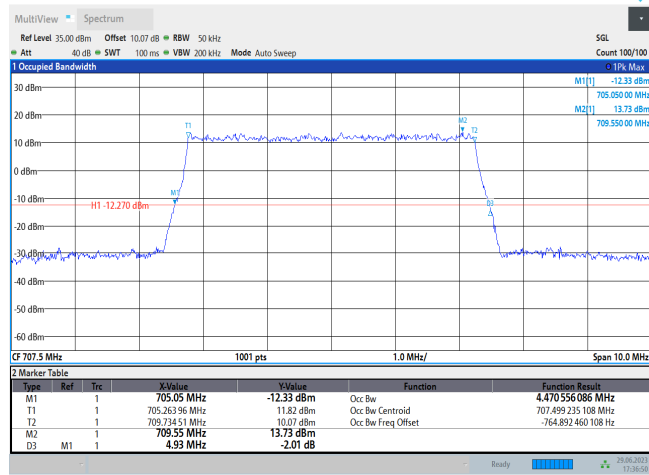


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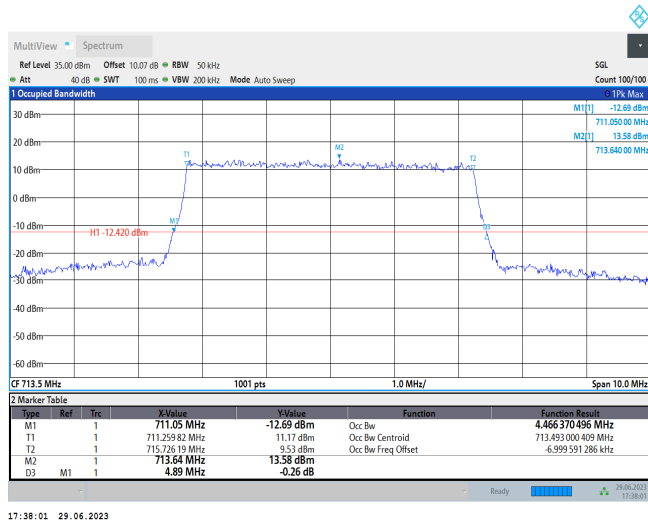
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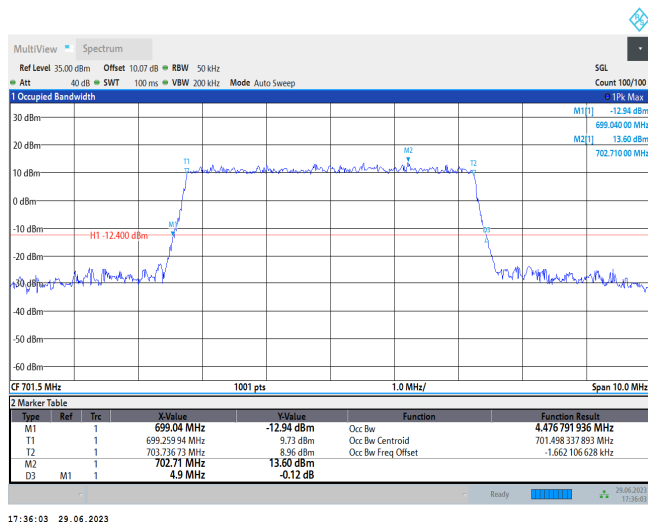
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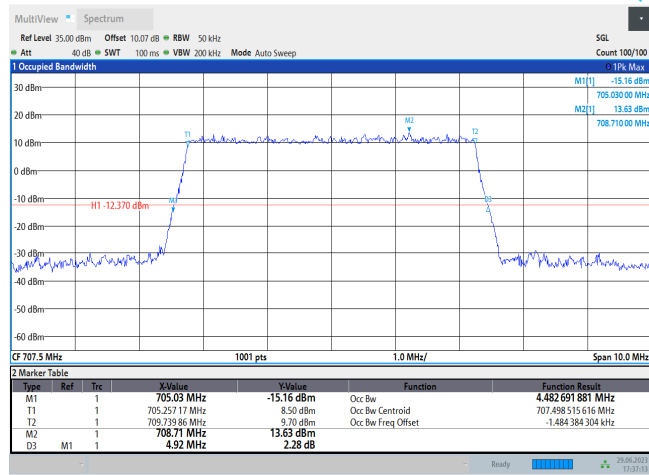


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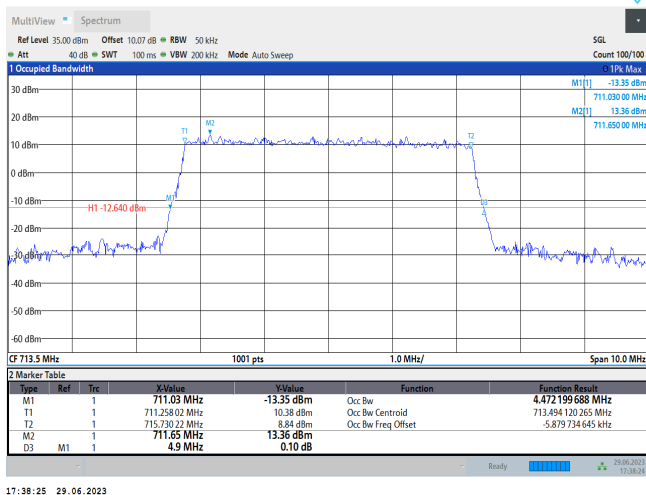
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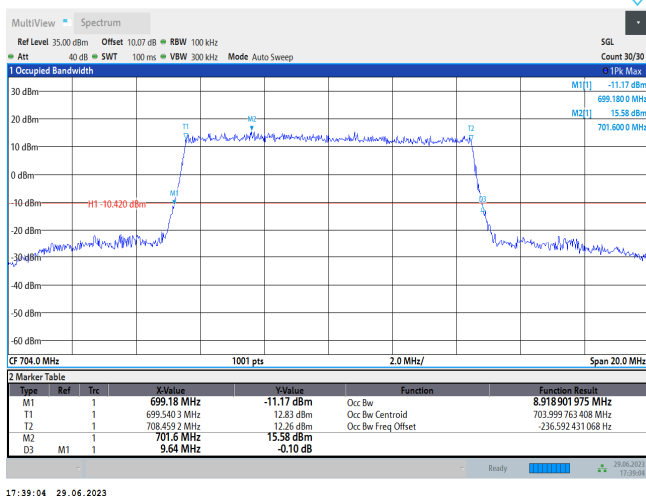
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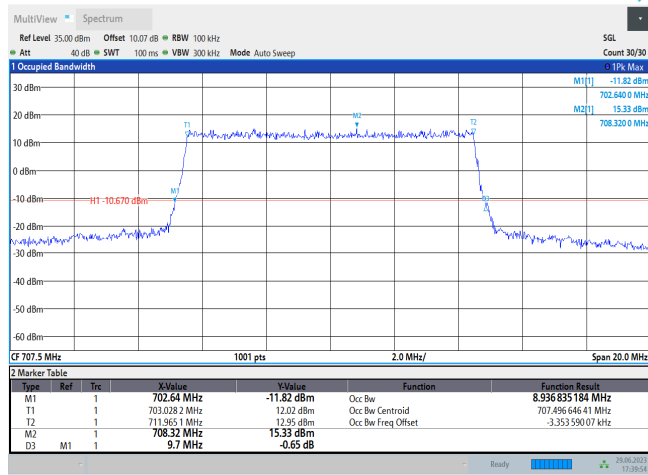


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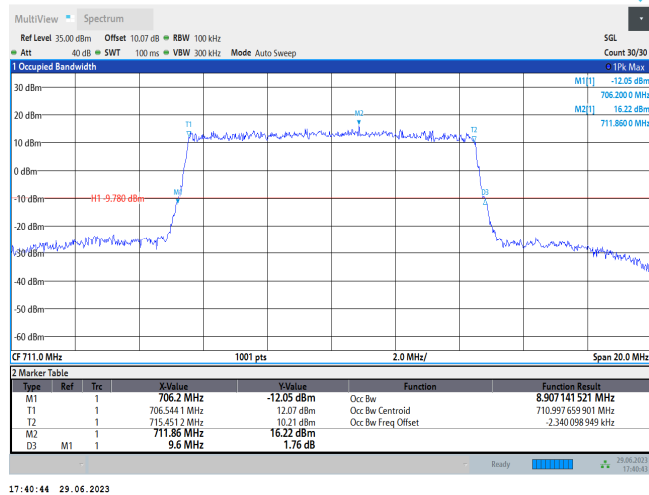
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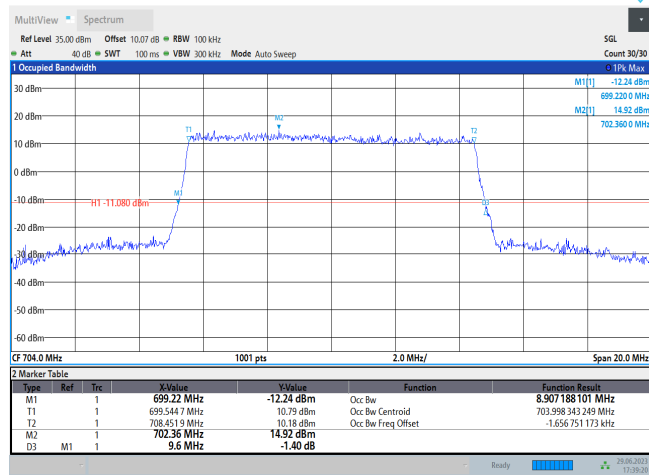
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Band12-10MHz-QPSK-23130-50RB#0



17:40:44 29.06.2023

Band12-10MHz-16QAM-23060-50RB#0



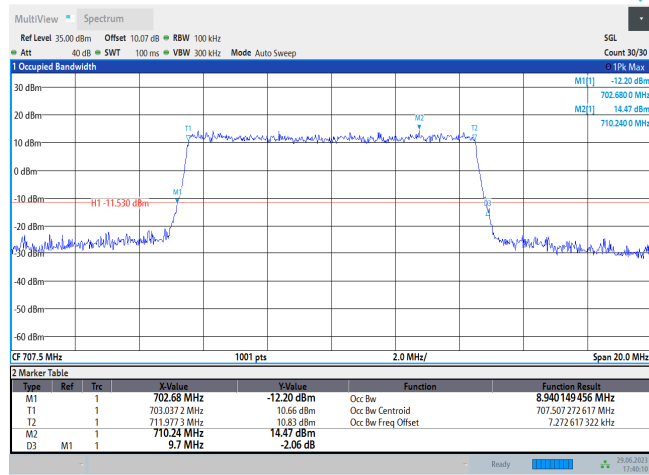
17:39:21 29.06.2023



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Band12-10MHz-16QAM-23095-50RB#0



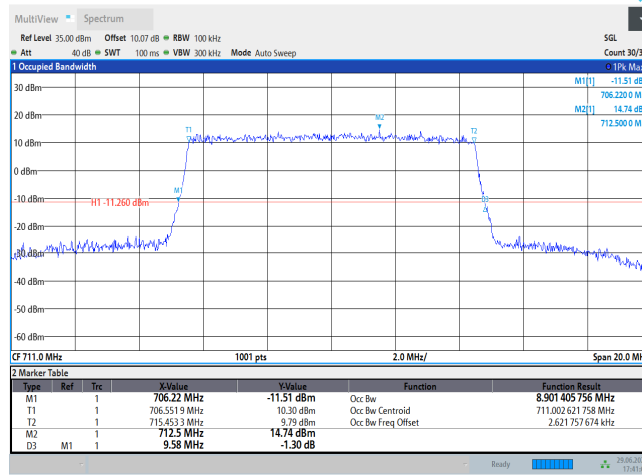
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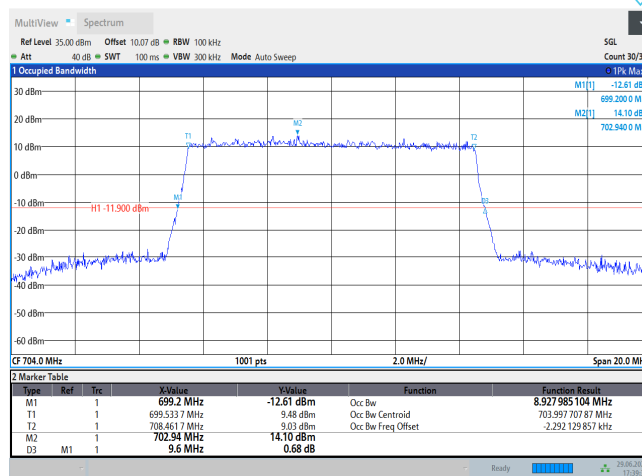
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Band12-10MHz-16QAM-23130-50RB#0



17:41:00 29.06.2023

Band12-10MHz-64QAM-23060-50RB#0



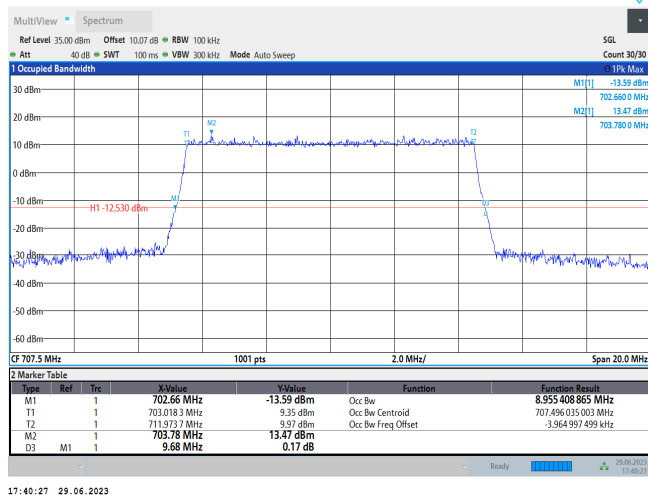
17:39:37 29.06.2023



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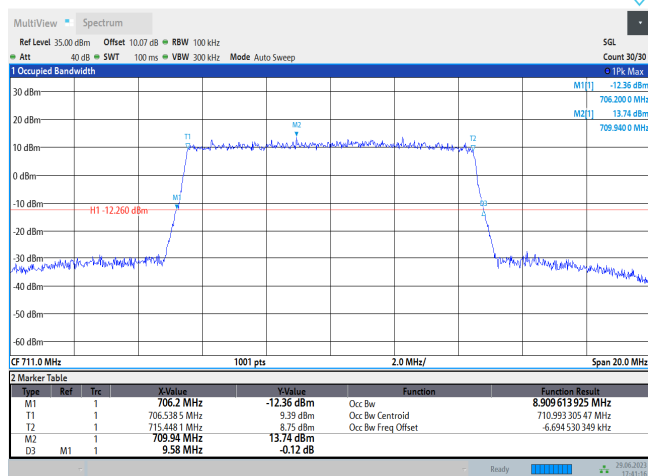
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Band12-10MHz-64QAM-23095-50RB#0



17:40:27 29.06.2023

Band12-10MHz-64QAM-23130-50RB#0



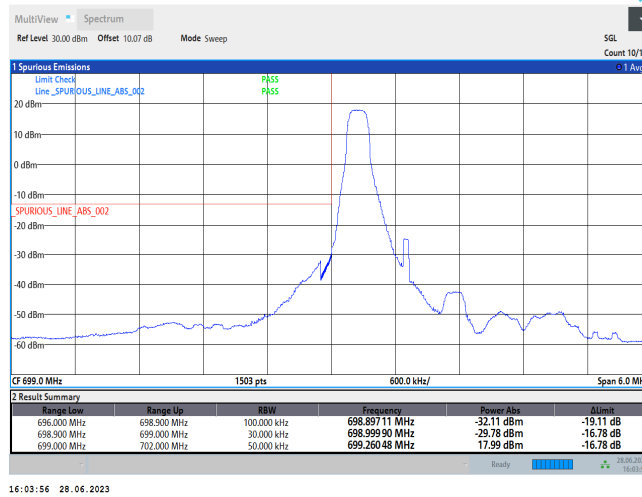
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Band Edge

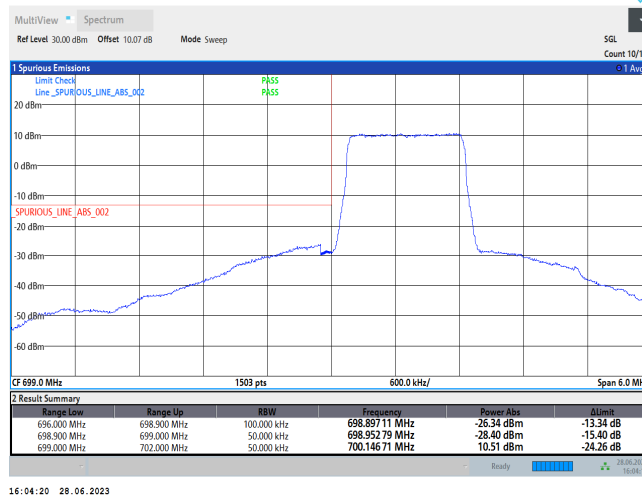
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Band12-1.4MHz-QPSK-23017-1RB#0



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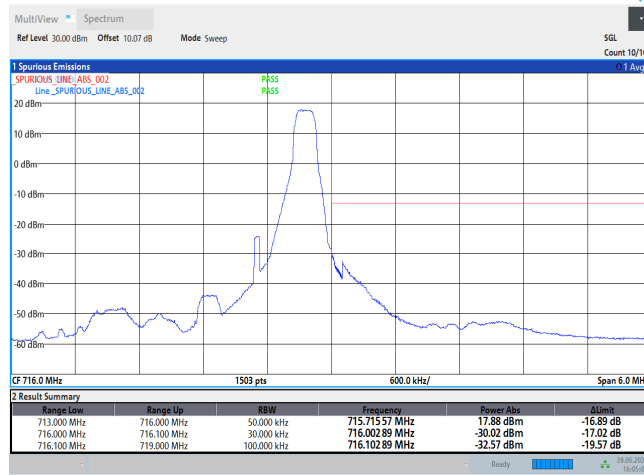


16:04:20 28.06.2023



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Band12-1.4MHz-QPSK-23173-1RB#5



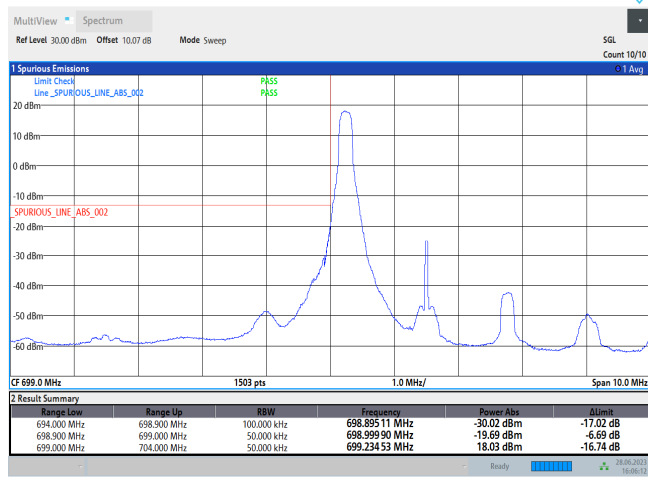
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Band12-3MHz-QPSK-23025-1RB#0



16:06:13 28.06.2023

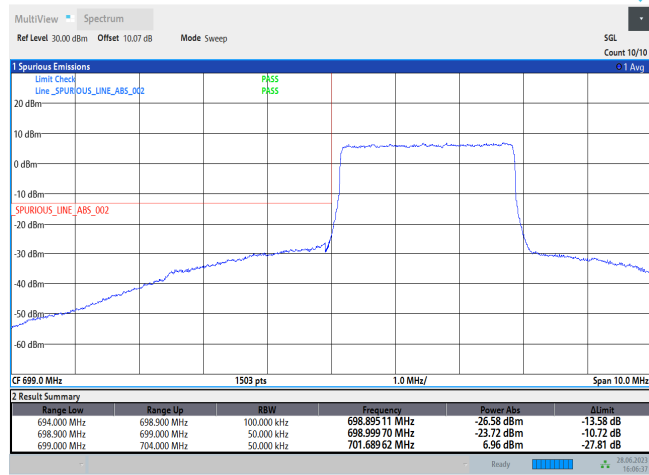


SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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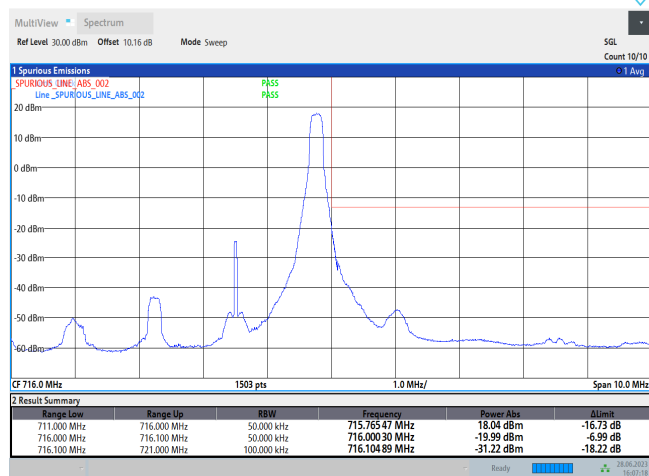
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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

Band12-3MHz-QPSK-23025-15RB#0



16:06:37 28.06.2023

Band12-3MHz-QPSK-23165-1RB#14



16:07:18 28.06.2023



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Band12-3MHz-QPSK-23165-15RB#0



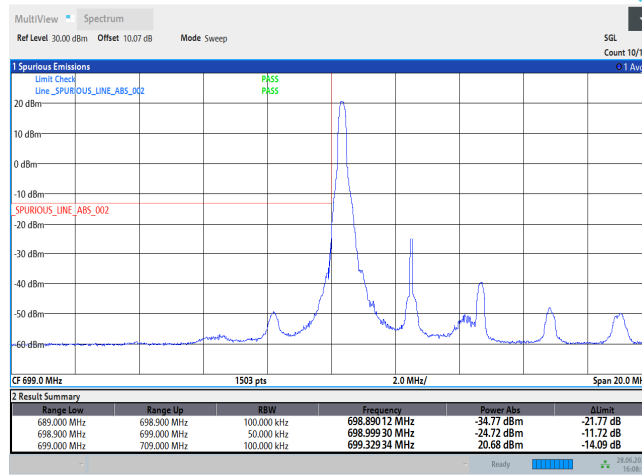
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Band12-5MHz-QPSK-23035-1RB#0



16:08:14 28.06.2023

Band12-5MHz-QPSK-23035-25RB#0



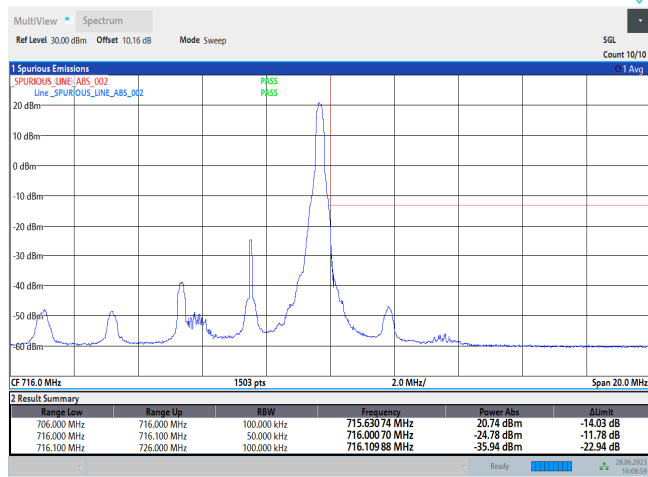
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Band12-5MHz-QPSK-23155-1RB#24



16:08:59 28.06.2023



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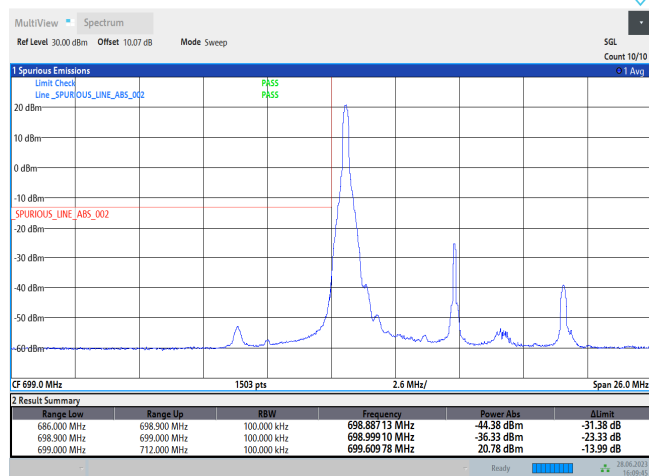
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Band12-5MHz-QPSK-23155-25RB#0



16:09:14 28.06.2023

Band12-10MHz-QPSK-23060-1RB#0

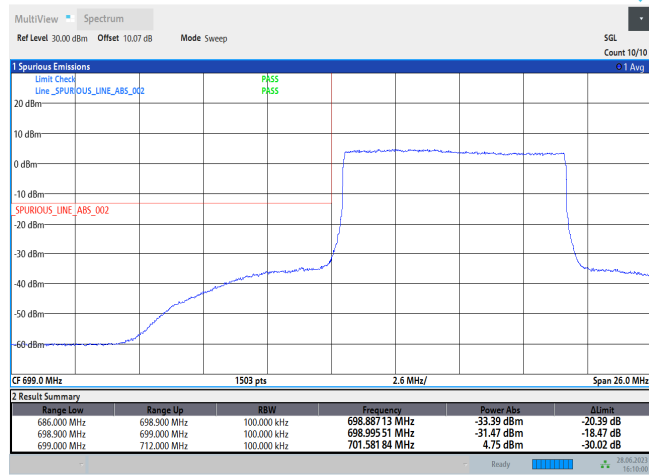


16:09:46 28.06.2023



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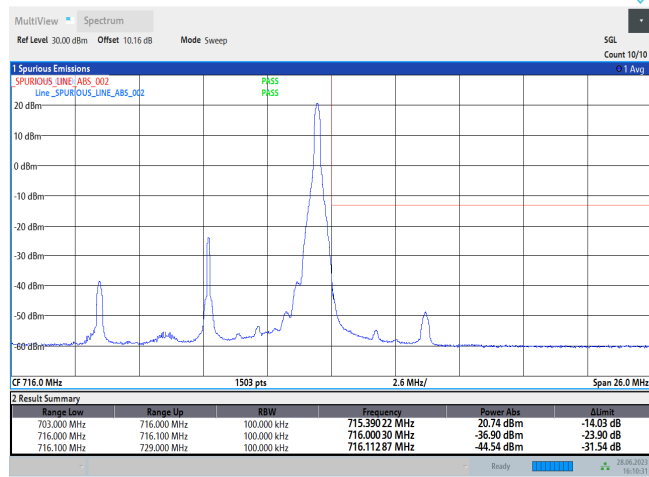
Band12-10MHz-QPSK-23060-50RB#0



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Band12-10MHz-QPSK-23130-1RB#49



16:10:32 28.06.2023

Band12-10MHz-QPSK-23130-50RB#0



16:10:47 28.06.2023



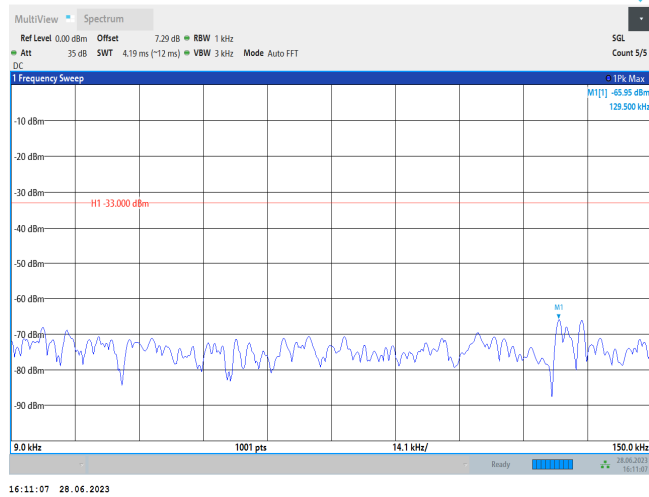
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Conducted Spurious Emission

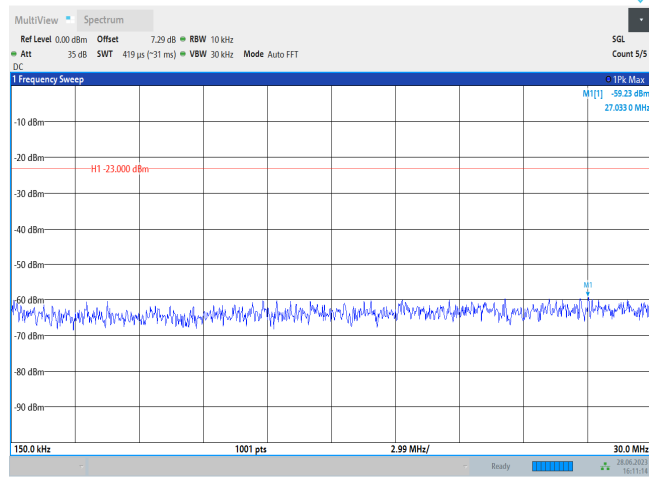
Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



16:11:07 28.06.2023

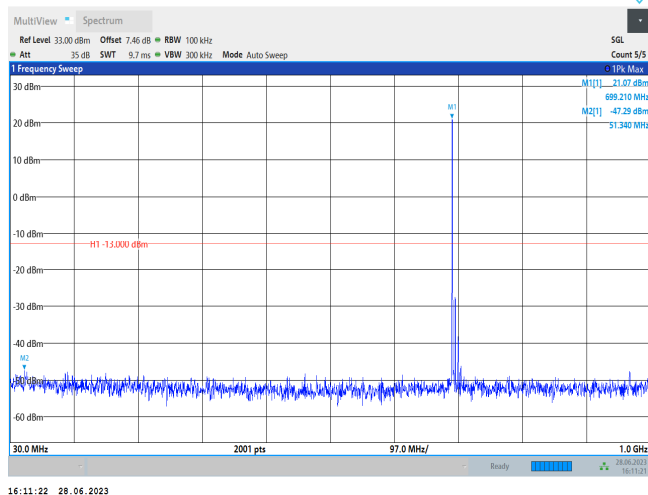
Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



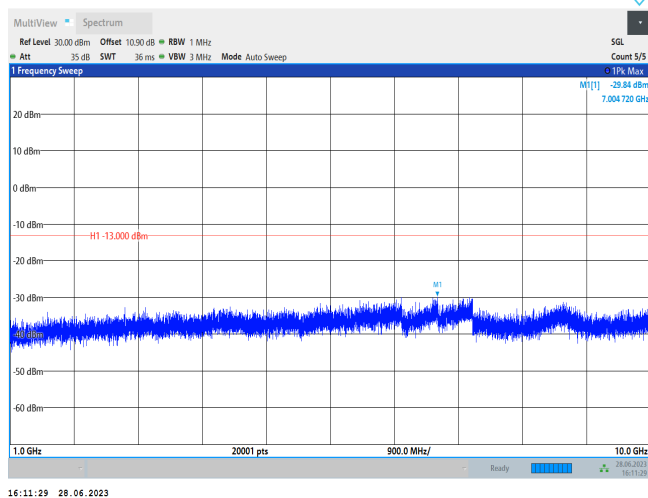
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz

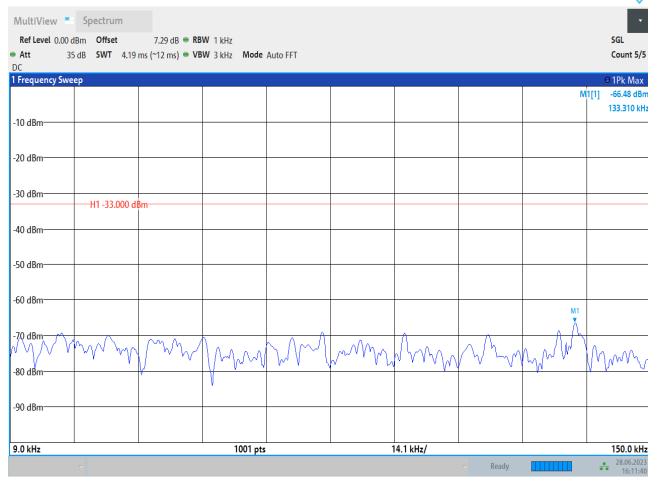


Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz

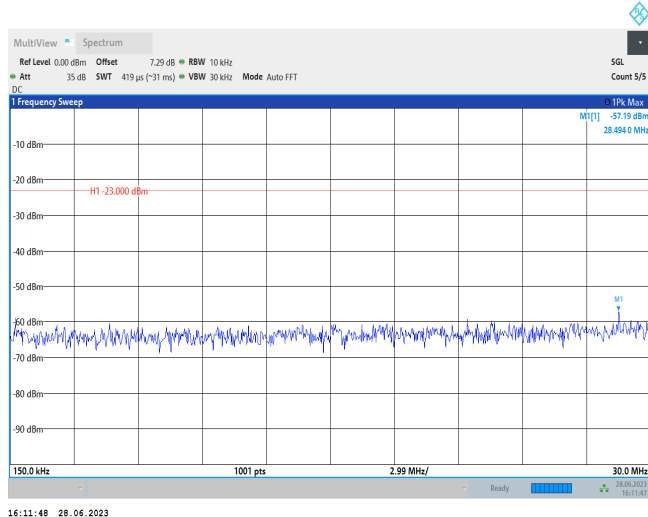


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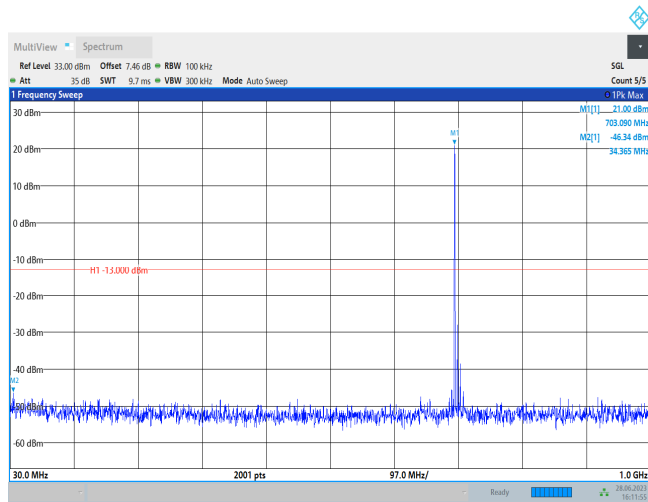
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Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



16:11:48 28.06.2023

Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz

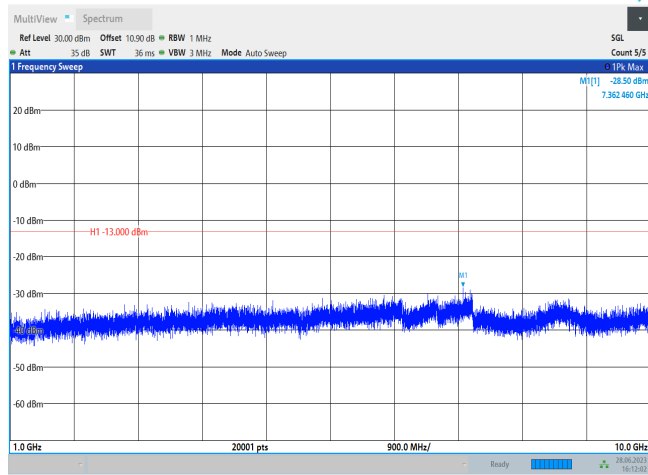


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Report No.: XEWM2306000327RG01
 Rev.: 01
 Page: 55 of 62

Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz

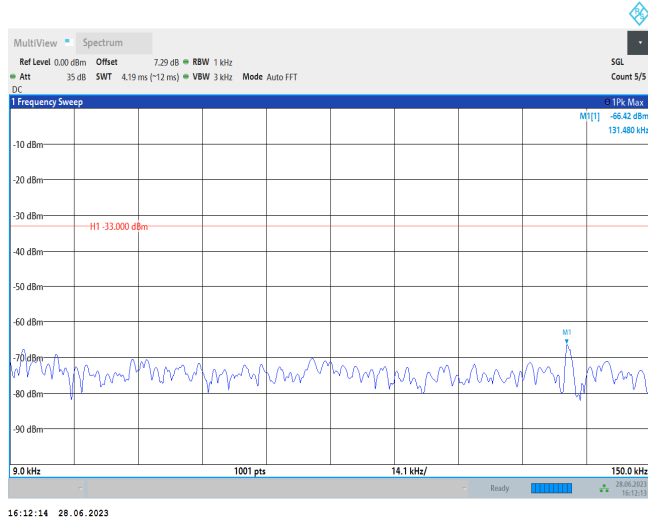


16:12:02 28.06.2023

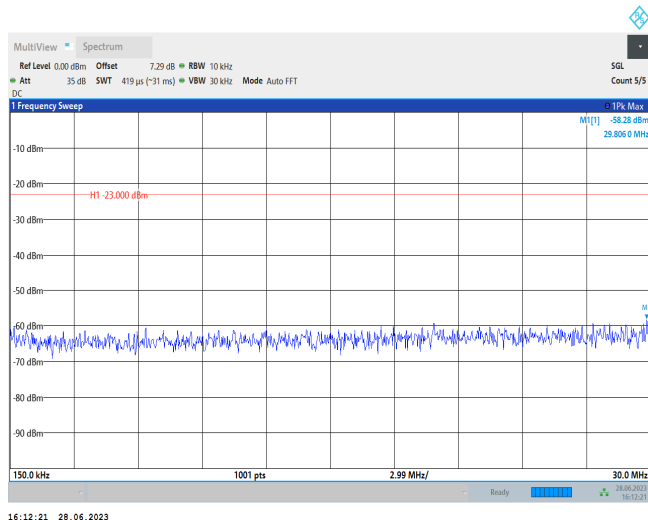


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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



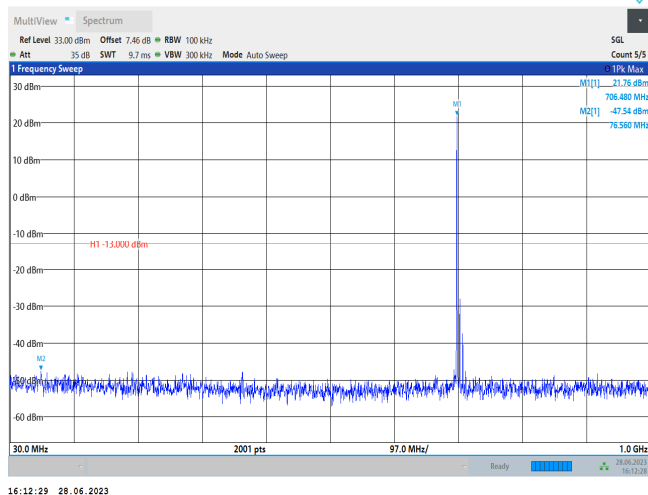
Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



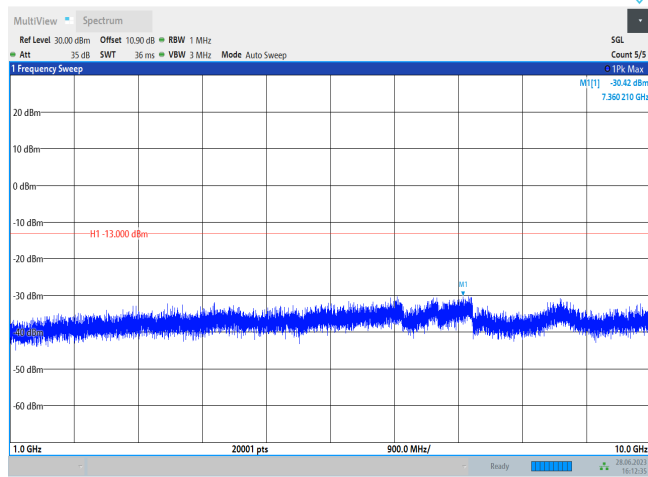
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Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_12_TM1_10MHz
 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	1399.256	50.19	-47.39	24.90	-67.56	-13.00	54.56	268	358	Horizontal
2	2305.4122	48.03	-46.64	27.15	-66.72	-13.00	53.72	334	241	Horizontal
3	3730.3492	48.88	-44.69	29.48	-61.59	-13.00	48.59	169	313	Horizontal
4	5859.1144	46.99	-41.14	32.64	-56.77	-13.00	43.77	332	120	Horizontal
5	7469.0988	45.08	-38.37	36.84	-51.71	-13.00	38.71	227	295	Horizontal
6	9493.8198	44.00	-35.77	37.76	-49.27	-13.00	36.27	179	45	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	1398.896	49.12	-47.40	24.90	-68.64	-13.00	55.64	253	51	Vertical
2	2124.325	48.40	-46.90	26.65	-67.11	-13.00	54.11	117	270	Vertical
3	3454.9382	47.45	-45.49	28.92	-64.38	-13.00	51.38	264	69	Vertical
4	4348.854	48.48	-43.08	29.89	-59.97	-13.00	46.97	224	64	Vertical
5	7055.8022	45.41	-39.26	36.17	-52.94	-13.00	39.94	356	154	Vertical
6	9510.3804	43.93	-35.80	37.80	-49.33	-13.00	36.33	287	356	Vertical



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Test Band = LTE_12_TM1_10MHz

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	1067.6827	48.61	-47.35	24.17	-69.83	-13.00	56.83	188	197	Horizontal
2	1987.5195	47.93	-46.95	26.25	-68.03	-13.00	55.03	256	264	Horizontal
3	4024.481	48.80	-43.98	29.70	-60.74	-13.00	47.74	334	139	Horizontal
4	5687.3875	47.20	-41.36	32.50	-56.92	-13.00	43.92	175	278	Horizontal
5	7369.0148	45.33	-38.48	36.58	-51.83	-13.00	38.83	226	228	Horizontal
6	9520.8208	43.96	-35.81	37.80	-49.31	-13.00	36.31	331	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	1017.2807	48.63	-46.76	24.36	-69.03	-13.00	56.03	174	76	Vertical
2	1660.6264	48.69	-47.50	25.41	-68.66	-13.00	55.66	229	327	Vertical
3	3002.0401	47.45	-45.67	28.61	-64.87	-13.00	51.87	334	349	Vertical
4	4506.9003	48.31	-43.06	29.61	-60.40	-13.00	47.40	158	152	Vertical
5	6853.4741	45.62	-39.63	35.59	-53.68	-13.00	40.68	206	327	Vertical
6	9474.739	44.22	-35.72	37.65	-49.11	-13.00	36.11	199	170	Vertical



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Test Band = LTE_12_TM1_10MHz
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	1803.1921	48.31	-47.32	25.41	-68.86	-13.00	55.86	254	300	Horizontal
2	3069.0028	48.07	-45.83	28.84	-64.18	-13.00	51.18	114	268	Horizontal
3	3705.8682	48.87	-44.52	29.34	-61.57	-13.00	48.57	158	76	Horizontal
4	5634.8254	47.21	-41.38	32.53	-56.90	-13.00	43.90	194	5	Horizontal
5	7086.7635	45.54	-39.10	35.98	-52.84	-13.00	39.84	364	99	Horizontal
6	8535.8214	44.27	-36.48	36.57	-50.90	-13.00	37.90	211	345	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	1412.9365	49.29	-47.42	25.00	-68.39	-13.00	55.39	164	60	Vertical
2	2542.3017	48.12	-46.47	27.80	-65.81	-13.00	52.81	260	46	Vertical
3	3729.6292	48.65	-44.69	29.48	-61.82	-13.00	48.82	220	166	Vertical
4	5184.8074	47.55	-42.52	31.87	-58.36	-13.00	45.36	141	354	Vertical
5	6089.1636	46.30	-40.47	33.42	-56.01	-13.00	43.01	197	130	Vertical
6	9460.3384	43.89	-35.67	37.56	-49.48	-13.00	36.48	230	2	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-8.40	-0.011873	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-8.24	-0.011647	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-8.88	-0.012551	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.84	-0.012495	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.45	-0.010530	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.58	-0.006473	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-6.42	-0.009074	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.32	-0.004693	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-7.95	-0.011237	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	1.72	0.002431	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.38	-0.004777	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.86	-0.002629	PASS

---End of Attachment---



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