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Appendix B.4

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	23.1	22.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.75	22.6	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.86	22.71	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.92	21.77	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.06	22.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.82	22.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.72	22.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.83	21.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.56	23.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.37	23.22	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.29	23.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.57	22.42	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.88	21.73	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.15	22	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.08	21.93	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.14	20.99	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22	21.85	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.18	22.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.04	21.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.95	20.8	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.9	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.82	22.67	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.61	22.46	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.58	21.43	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.36	23.21	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.14	22.99	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.26	23.11	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.03	21.88	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.22	23.07	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.85	22.7	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.44	22.29	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.87	21.72	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.62	23.47	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.6	23.45	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.25	23.1	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.71	22.56	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.79	21.64	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.47	22.32	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.52	22.37	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.21	21.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.44	22.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.09	21.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.81	21.66	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.98	20.83	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.95	22.8	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.93	22.78	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.55	22.4	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.65	21.5	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.03	22.88	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.28	23.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.66	23.51	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.39	22.24	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.51	23.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.88	22.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.69	22.54	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.99	21.84	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.3	23.15	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.83	23.68	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.4	23.25	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.65	22.5	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.1	21.95	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.65	22.5	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.02	22.87	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.55	21.4	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.8	22.65	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.13	21.98	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.02	21.87	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.07	20.92	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.56	22.41	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.11	22.96	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.74	22.59	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.77	21.62	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.25	23.1	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.49	23.34	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.46	22.31	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.31	22.16	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.58	23.43	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.82	22.67	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.18	23.03	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.13	21.98	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.29	23.14	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.11	22.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.43	23.28	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.39	22.24	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.04	21.89	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.89	22.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.03	21.88	34.77	PASS
Band12	10MHz	16QAM	23060	27RB#0	22.35	22.2	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.78	22.63	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.14	21.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.35	22.2	34.77	PASS



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Band12	10MHz	16QAM	23095	27RB#0	22.91	22.76	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.53	22.38	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.51	22.36	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.76	22.61	34.77	PASS
Band12	10MHz	16QAM	23130	27RB#0	22.97	22.82	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	5.72	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.78	13	PASS



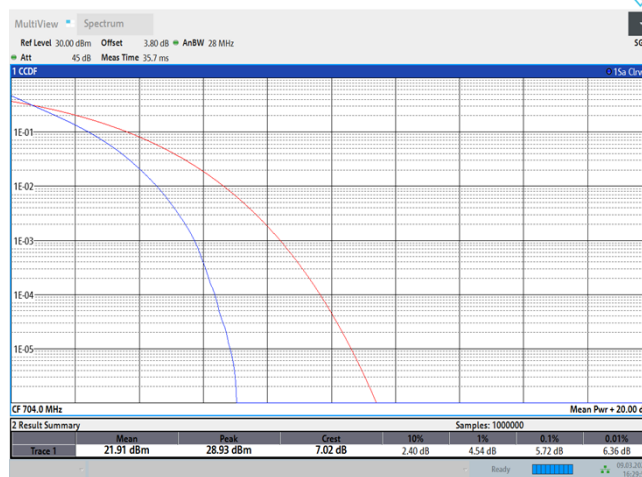
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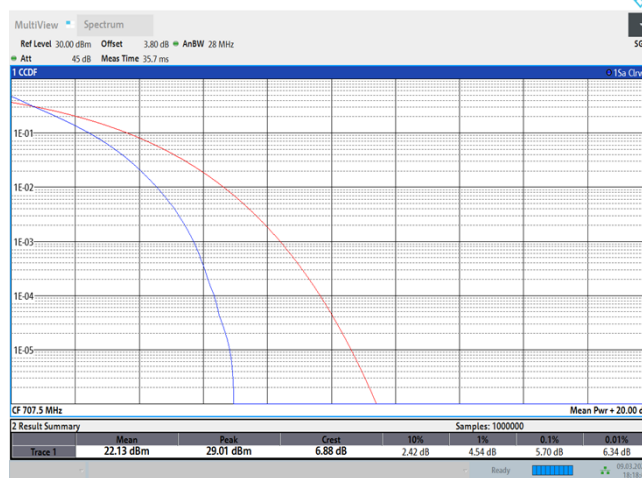
Test Graphs

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



16:29:56 09.03.2023

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



18:18:41 09.03.2023

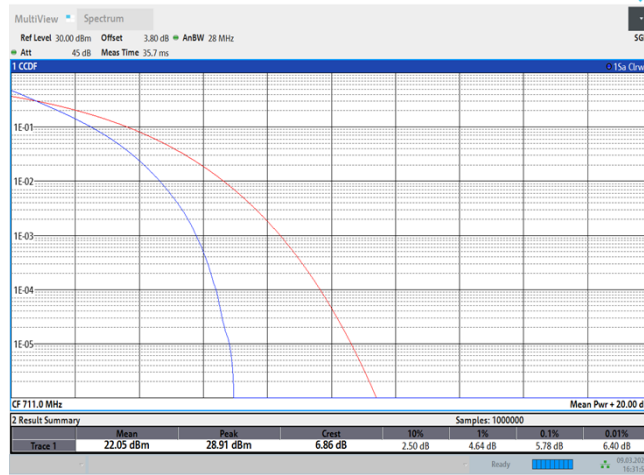


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Band12-10MHz-QPSK-23130-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	5MHz	QPSK	23095	25RB#0	PASS	PASS
Band12	5MHz	16QAM	23095	25RB#0	PASS	PASS



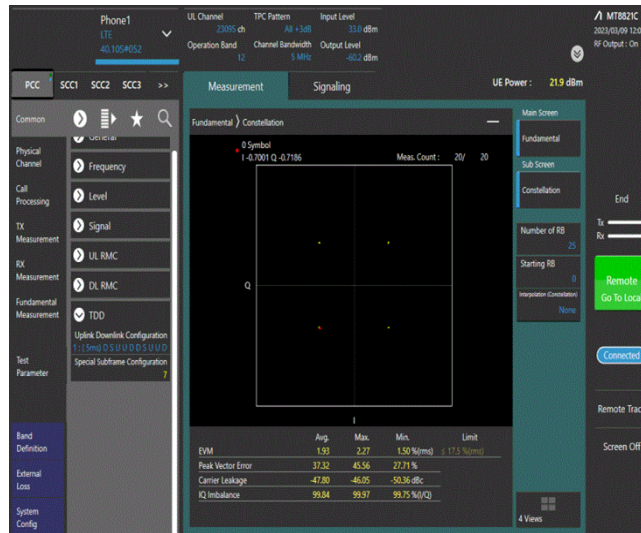
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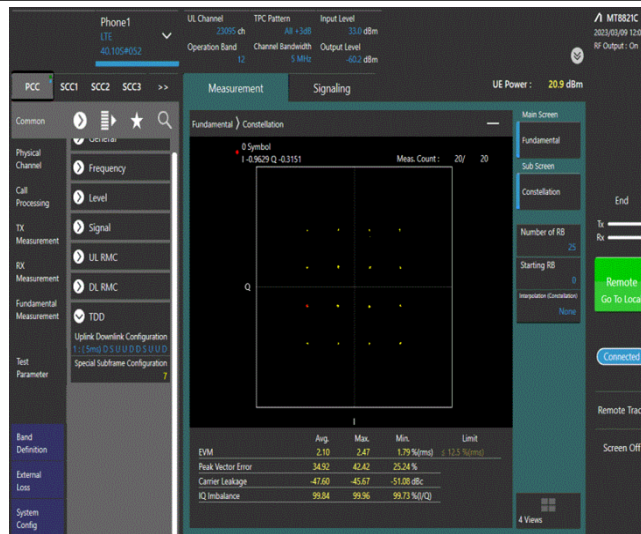
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Test Graphs

Band12-5MHz-QPSK-23095-50RB#0



Band12-5MHz-16QAM-23095-50RB#0



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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	1.088	1.30	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.036	1.14	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.054	1.18	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.099	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.695	3.00	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.695	2.99	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.688	3.01	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	3.02	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.689	3.01	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.467	4.95	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.468	4.94	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.469	4.93	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.467	4.97	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.464	4.94	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.464	4.97	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.926	9.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.933	9.96	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.947	9.94	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.886	5.90	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.877	5.88	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.886	5.90	PASS



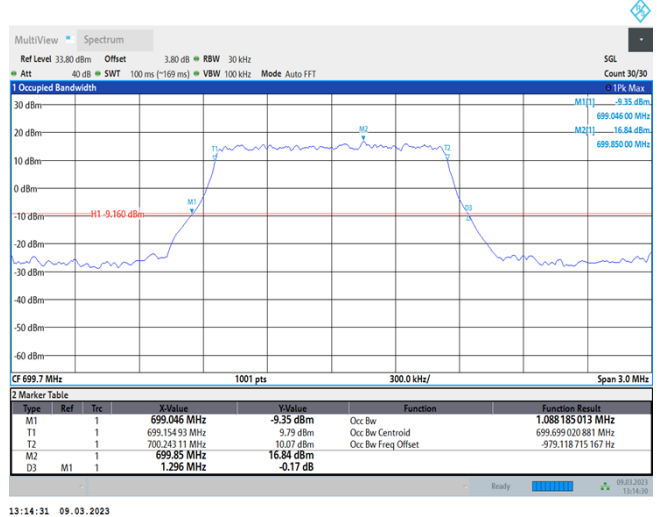
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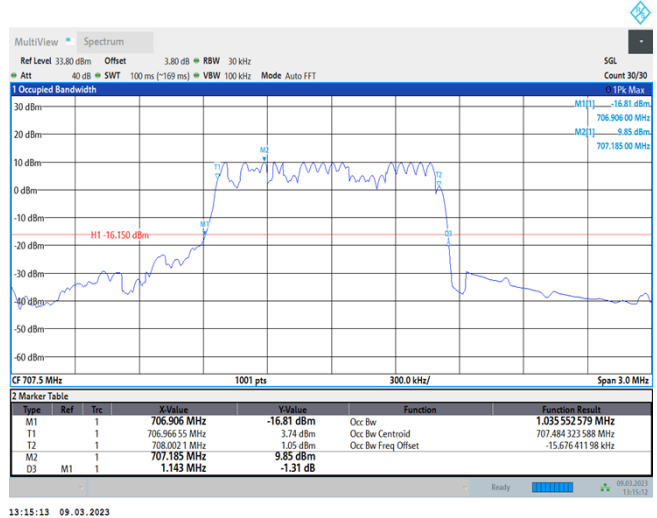
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Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



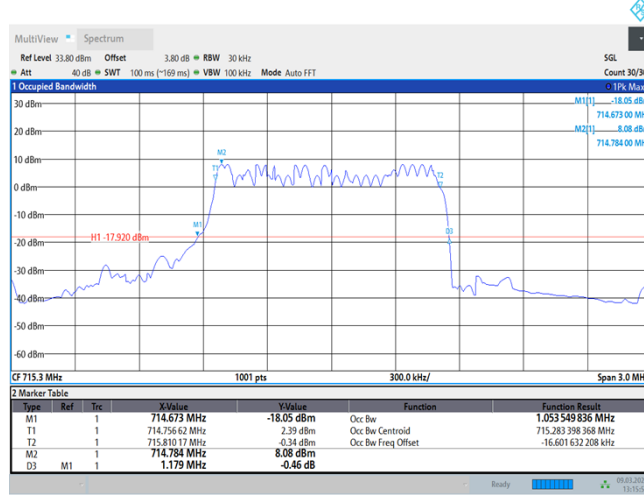
Band12-1.4MHz-QPSK-23095-6RB#0



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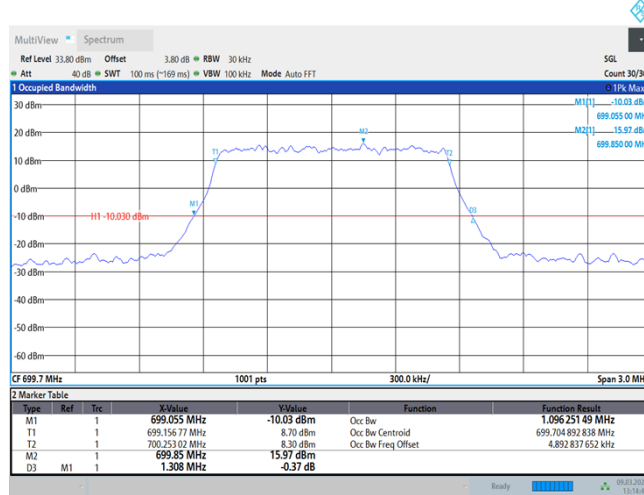
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Band12-1.4MHz-QPSK-23173-6RB#0



13:15:59 09.03.2023

Band12-1.4MHz-16QAM-23017-6RB#0



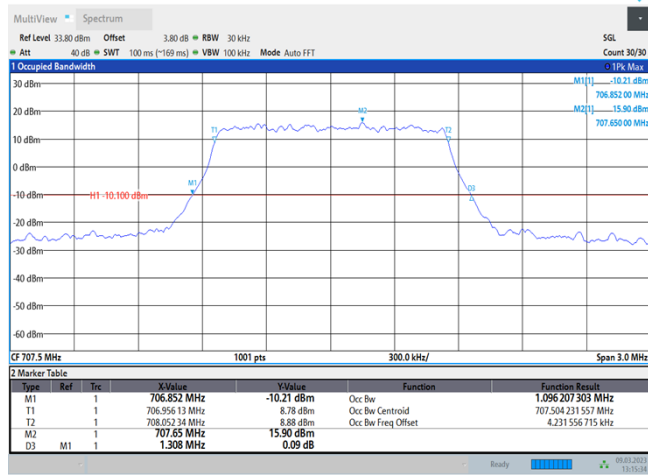
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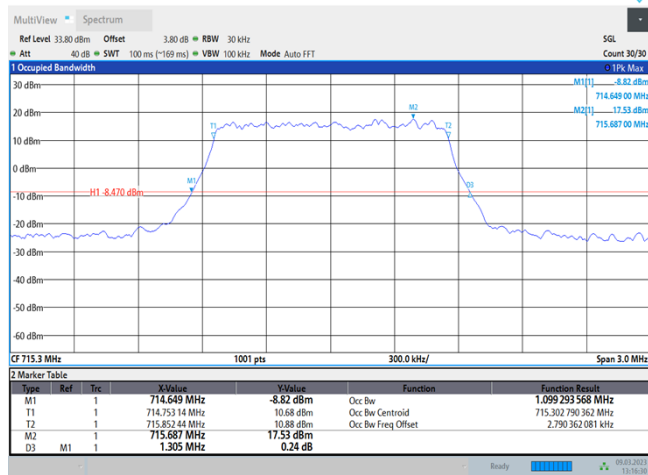
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Band12-1.4MHz-16QAM-23095-6RB#0



13:15:35 09.03.2023

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



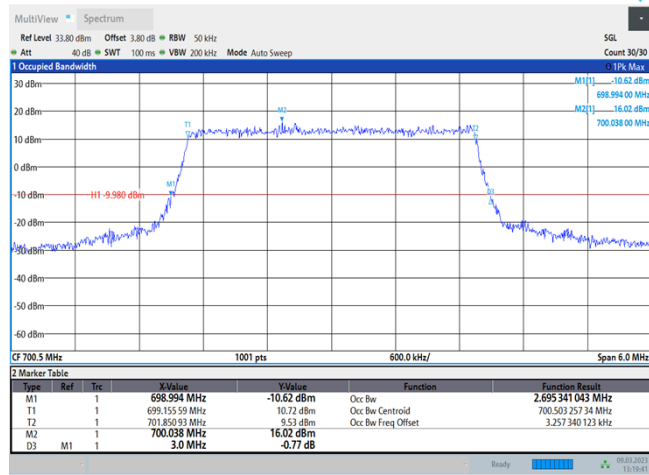
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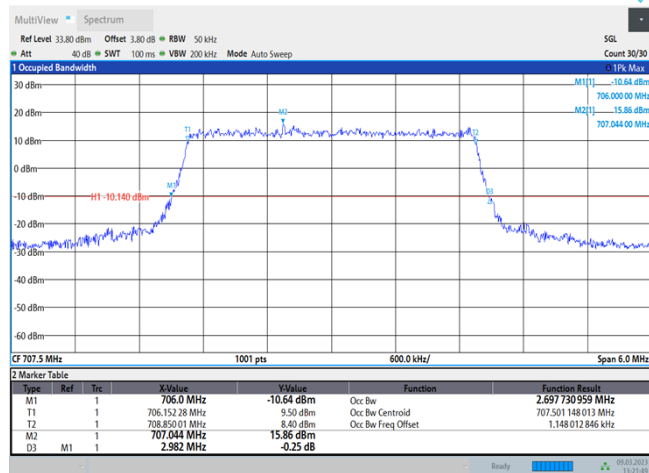
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Band12-3MHz-QPSK-23025-15RB#0



13:19:42 09.03.2023

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



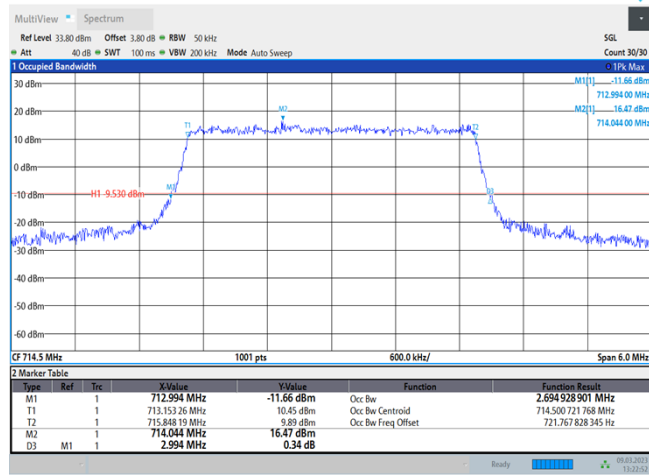
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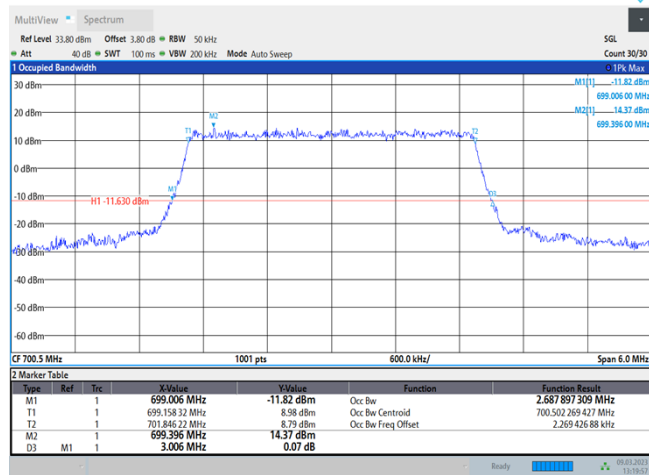
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Band12-3MHz-QPSK-23165-15RB#0



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



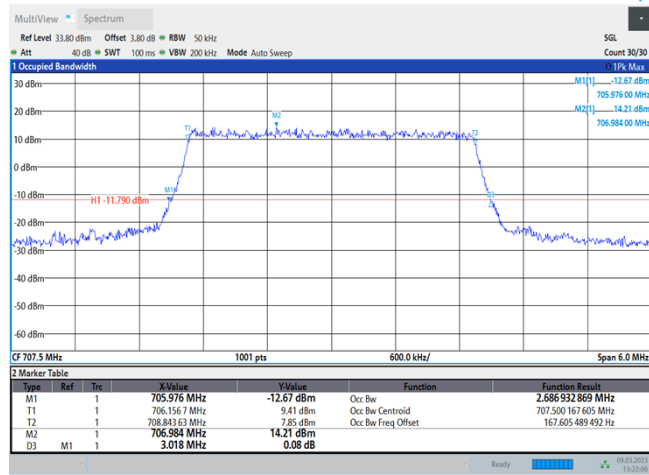
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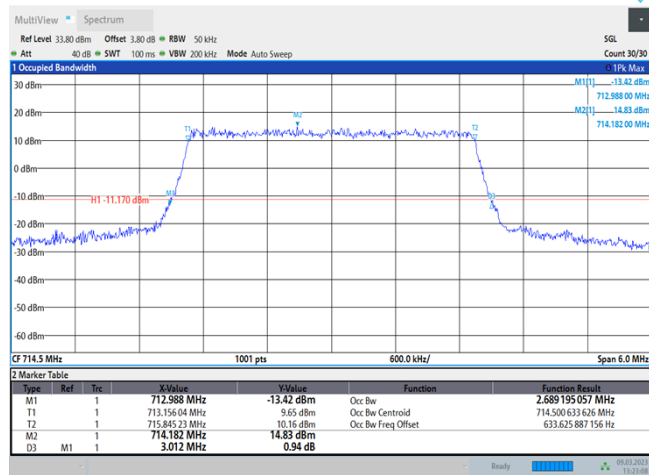
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Band12-3MHz-16QAM-23095-15RB#0



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Band12-3MHz-16QAM-23165-15RB#0



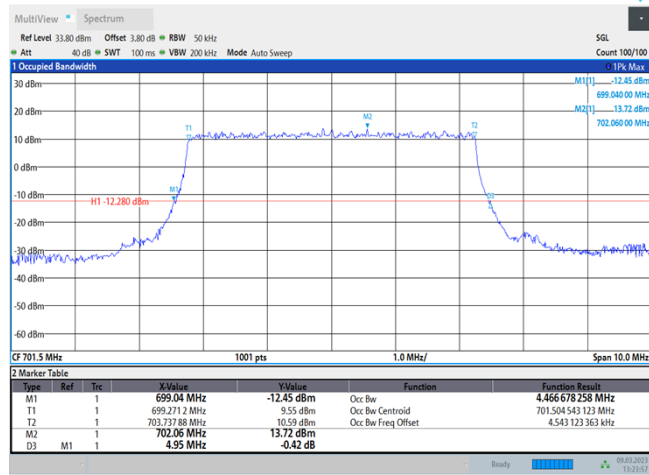
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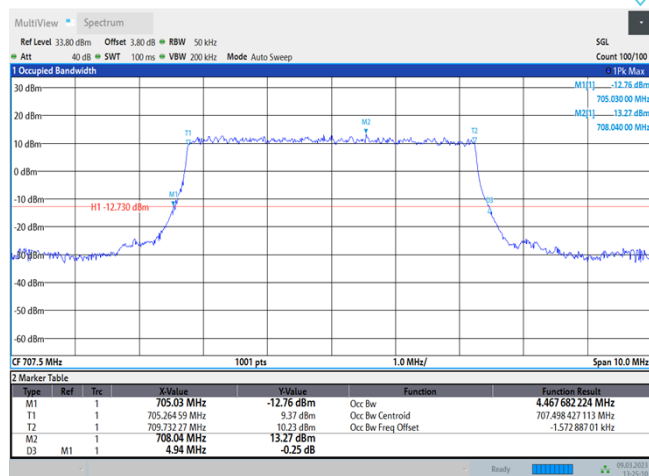
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Band12-5MHz-QPSK-23035-25RB#0



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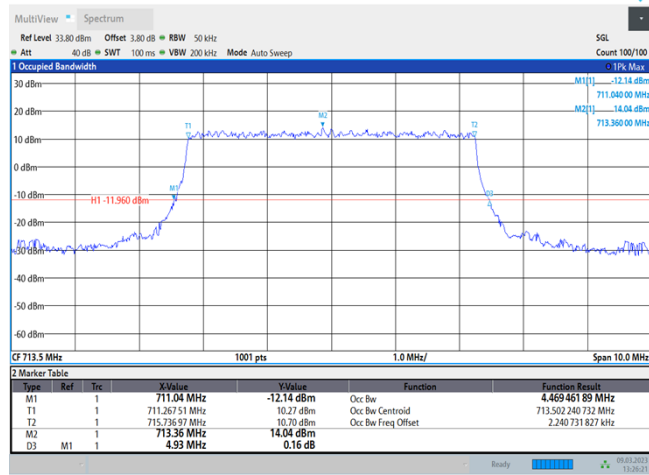
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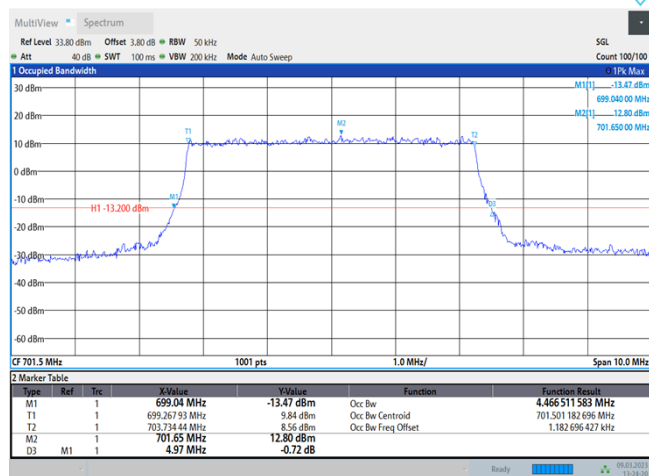
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Band12-5MHz-QPSK-23155-25RB#0



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Band12-5MHz-16QAM-23035-25RB#0



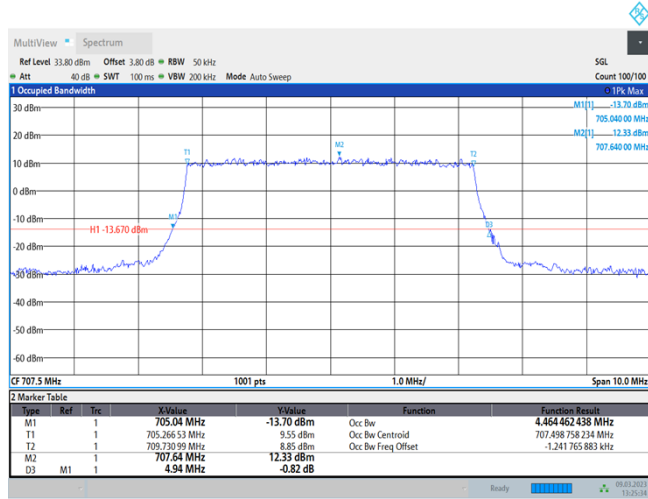
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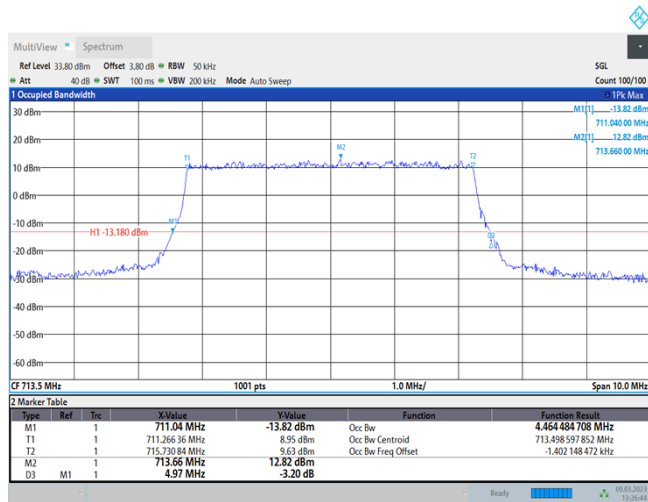
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