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	23.31	22.13	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.44	22.26	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.24	22.06	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.39	21.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.18	22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.26	22.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.19	22.01	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.33	21.15	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.14	21.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.21	22.03	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.17	21.99	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.23	21.05	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.5	21.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.71	21.53	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.66	21.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.41	20.23	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.52	21.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.62	21.44	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.43	21.25	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.43	20.25	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.42	21.24	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.6	21.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.47	21.29	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.36	20.18	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.23	20.05	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.33	20.15	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.25	20.07	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.34	19.16	34.77	PASS

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Band12	1.4MHz	64QAM	23095	1RB#0	21.56	20.38	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.5	20.32	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.43	20.25	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.31	19.13	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.42	20.24	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.4	20.22	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.48	20.3	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.19	19.01	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.41	22.23	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.35	22.17	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.39	22.21	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.43	21.25	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.39	22.21	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.34	22.16	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.29	22.11	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.35	21.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.34	22.16	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.33	22.15	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.2	22.02	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.36	21.18	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.57	21.39	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.74	21.56	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.58	21.4	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.45	20.27	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.75	21.57	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.66	21.48	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.66	21.48	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.45	20.27	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.59	21.41	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.57	21.39	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.52	21.34	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.32	20.14	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.41	20.23	34.77	PASS

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Band12	3MHz	64QAM	23025	1RB#8	21.42	20.24	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.21	20.03	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.45	19.27	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.64	20.46	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.59	20.41	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.53	20.35	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.48	19.3	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.48	20.3	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.59	20.41	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.54	20.36	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.33	19.15	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.41	22.23	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.45	22.27	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.28	22.1	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.43	21.25	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.41	22.23	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.44	22.26	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.29	22.11	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.44	21.26	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.3	22.12	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.3	22.12	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.23	22.05	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.29	21.11	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.8	21.62	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.66	21.48	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	21.43	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.45	20.27	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.76	21.58	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.62	21.44	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.54	21.36	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.45	20.27	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.68	21.5	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.56	21.38	34.77	PASS

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Band12	5MHz	16QAM	23155	1RB#24	22.52	21.34	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.32	20.14	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.33	20.15	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.3	20.12	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.13	19.95	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.35	19.17	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.73	20.55	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.62	20.44	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.6	20.42	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.43	19.25	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.56	20.38	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.5	20.32	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.56	20.38	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.38	19.2	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.35	22.17	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.21	22.03	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.23	22.05	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.49	21.31	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.49	22.31	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.39	22.21	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.23	22.05	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.51	21.33	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.33	22.15	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.34	22.16	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.2	22.02	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.42	21.24	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.65	21.47	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.77	21.59	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.57	21.39	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.46	20.28	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.7	21.52	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.63	21.45	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.55	21.37	34.77	PASS

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Band12	10MHz	16QAM	23095	50RB#0	21.43	20.25	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.72	21.54	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.63	21.45	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.57	21.39	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.43	20.25	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.43	20.25	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.33	20.15	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.59	20.41	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.5	19.32	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.61	20.43	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.49	20.31	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.51	20.33	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.5	19.32	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.56	20.38	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.49	20.31	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.56	20.38	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.41	19.23	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	5.16	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.10	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.16	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.00	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.98	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.98	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.50	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.50	13	PASS

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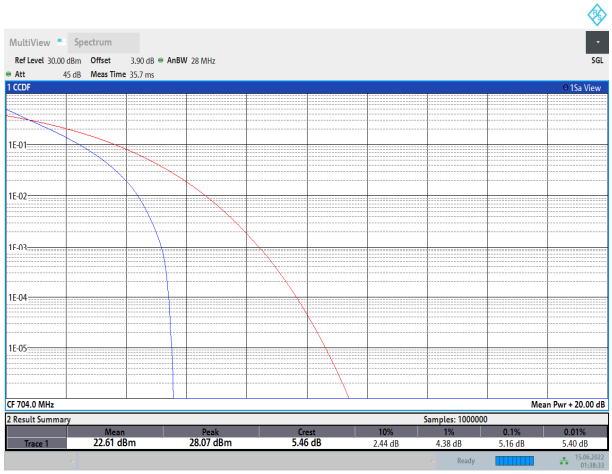
Test Graphs

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



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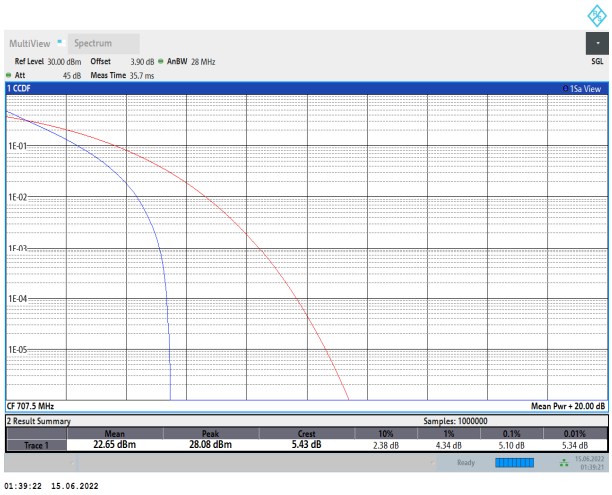

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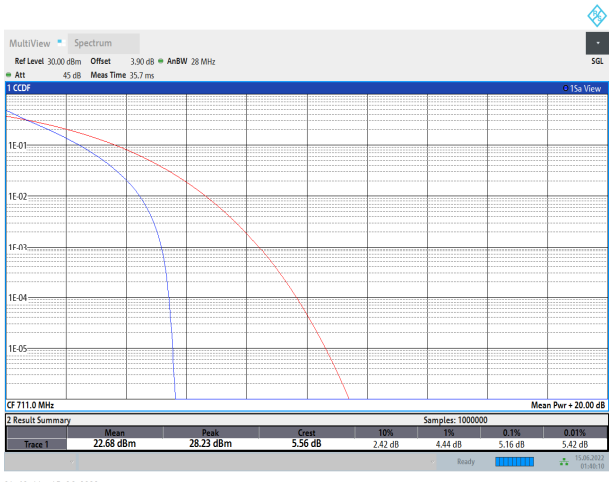
Band12-10MHz-QPSK-23130-50RB#0


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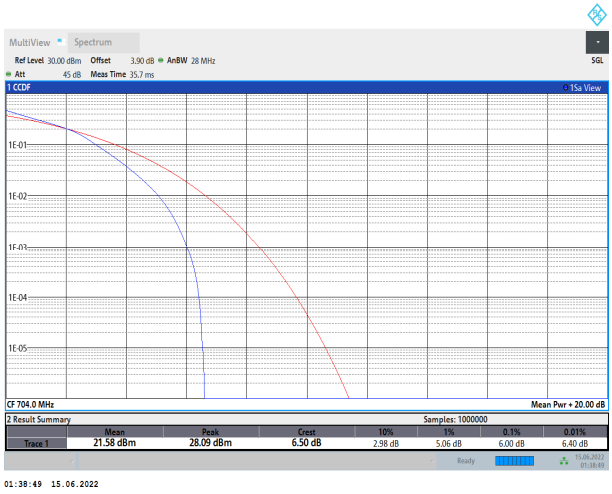

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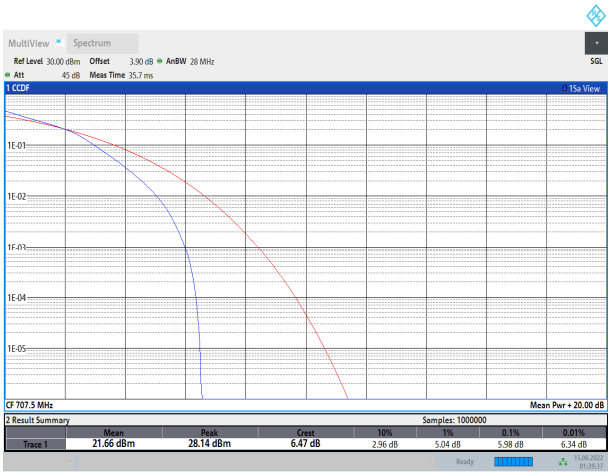
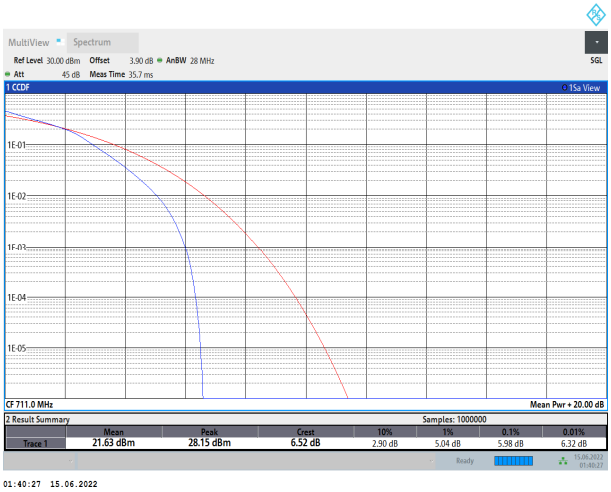
Band12-10MHz-16QAM-23095-50RB#0



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



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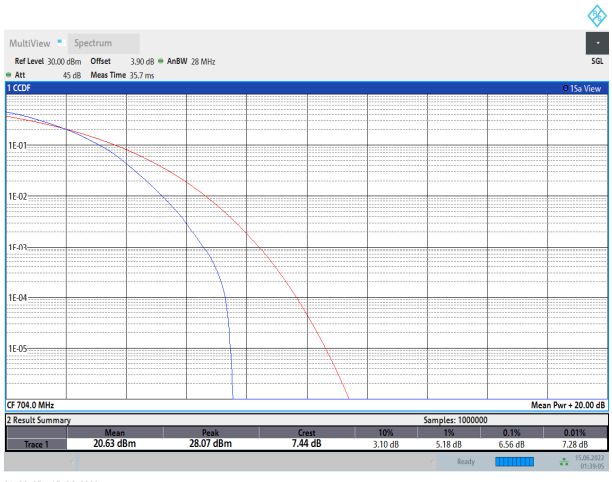
Band12-10MHz-64QAM-23060-50RB#0


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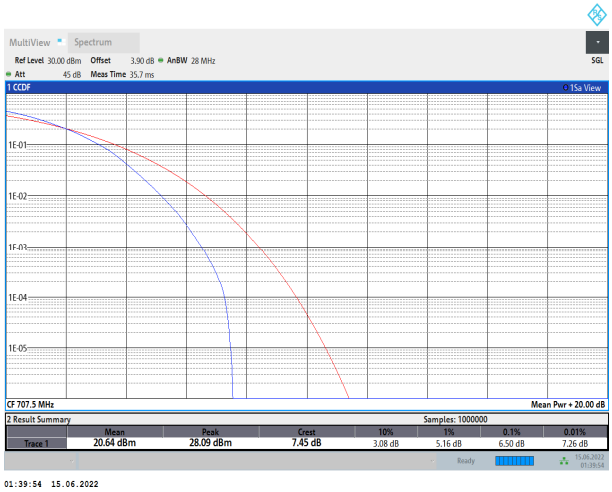

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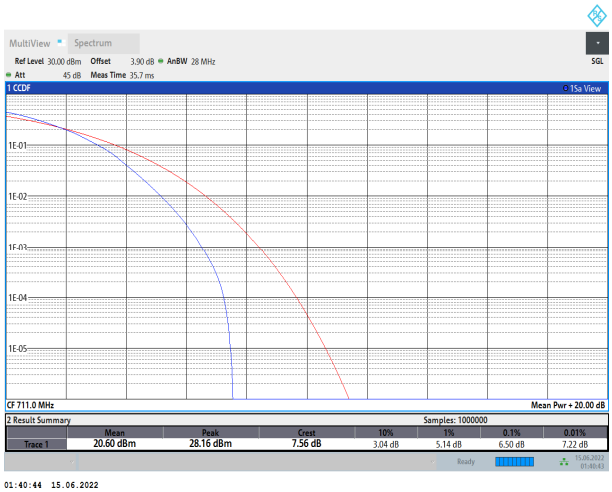
Band12-10MHz-64QAM-23130-50RB#0


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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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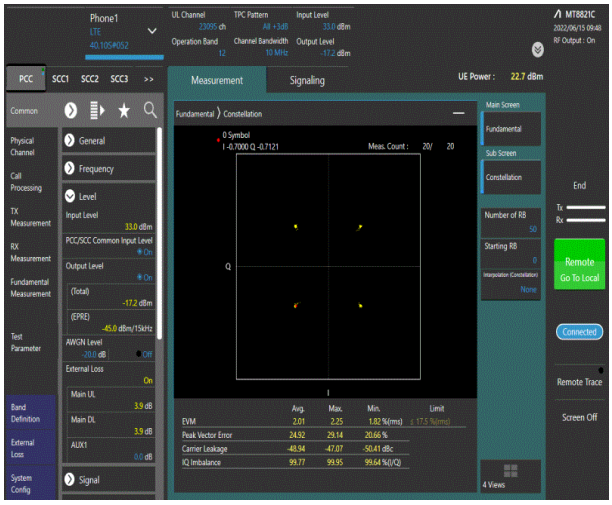
Test Graphs

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


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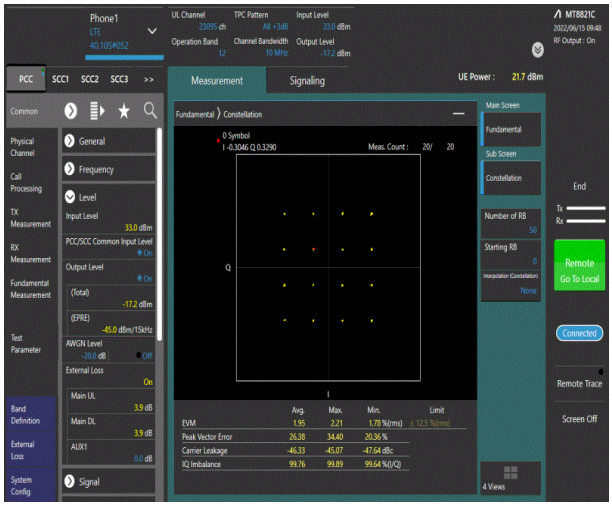

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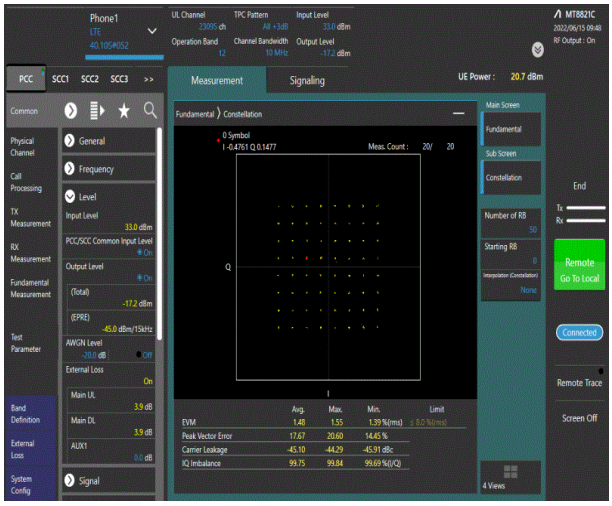

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.084	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	1.24	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.096	1.24	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.090	1.24	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.090	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.692	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.694	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.688	3.00	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.99	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.688	2.99	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.685	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.687	2.96	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.688	2.96	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.88	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.467	4.88	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.468	4.88	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.91	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.466	4.90	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.469	4.89	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.476	4.92	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.474	4.89	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.479	4.90	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.922	9.62	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.915	9.64	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.927	9.66	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.897	9.58	PASS

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Band12	10MHz	16QAM	23095	50RB#0	8.896	9.62	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.905	9.58	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.908	9.66	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.910	9.64	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.918	9.64	PASS

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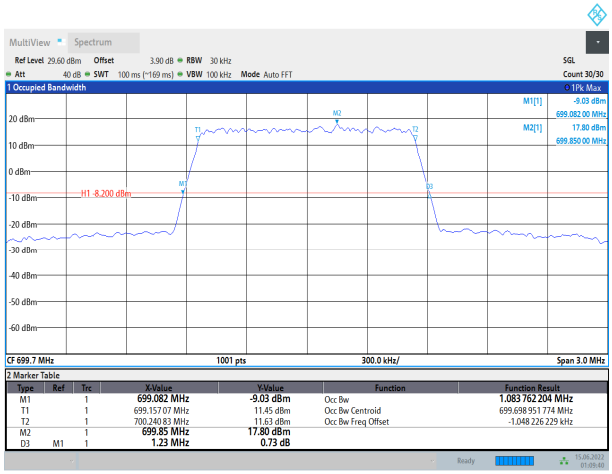
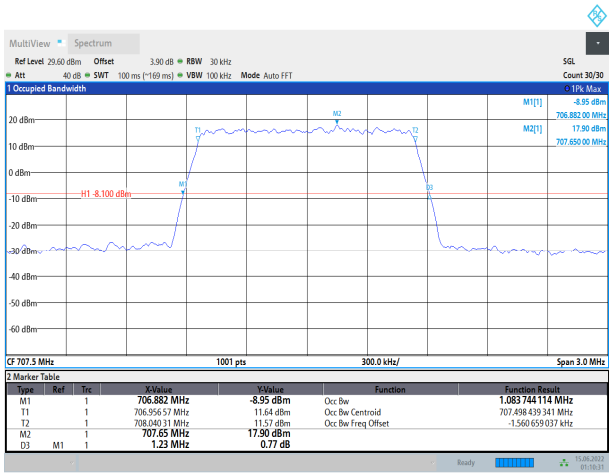
Test Graphs

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



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



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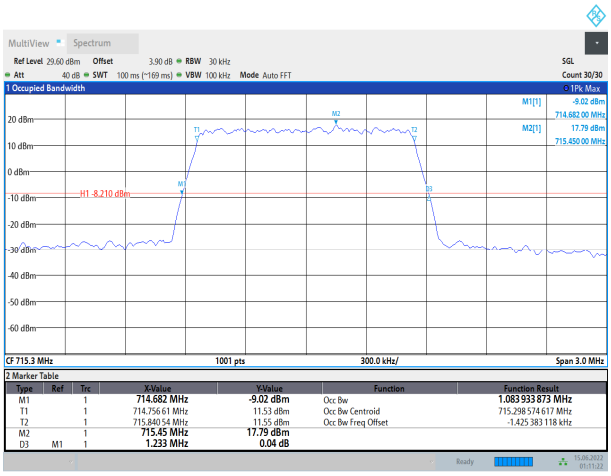
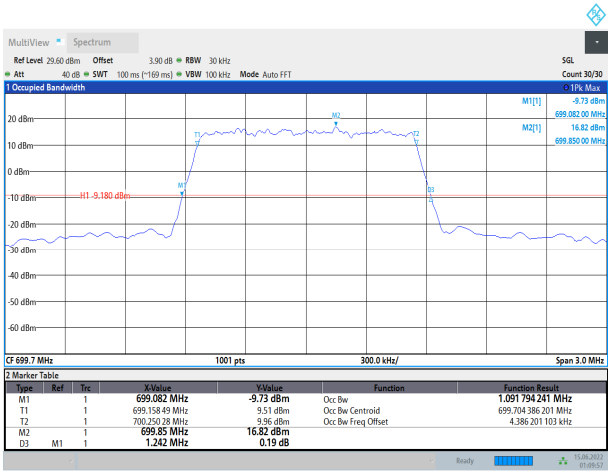
Band12-1.4MHz-QPSK-23173-6RB#0



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



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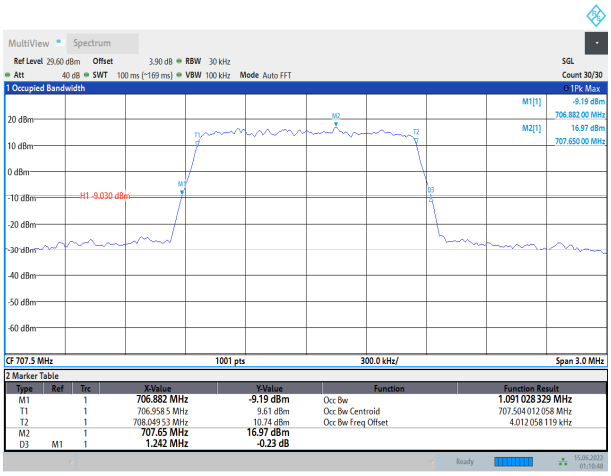
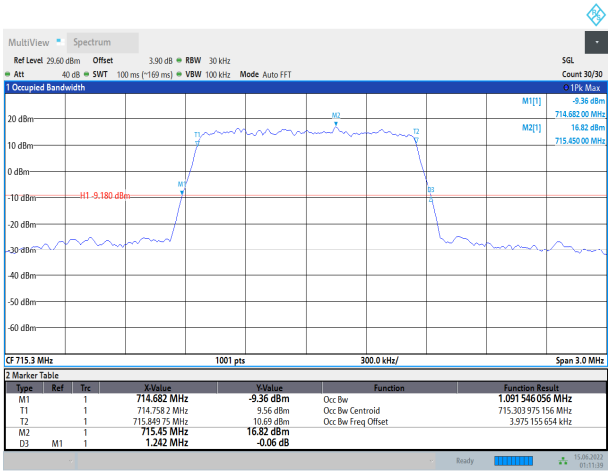
Band12-1.4MHz-16QAM-23095-6RB#0



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



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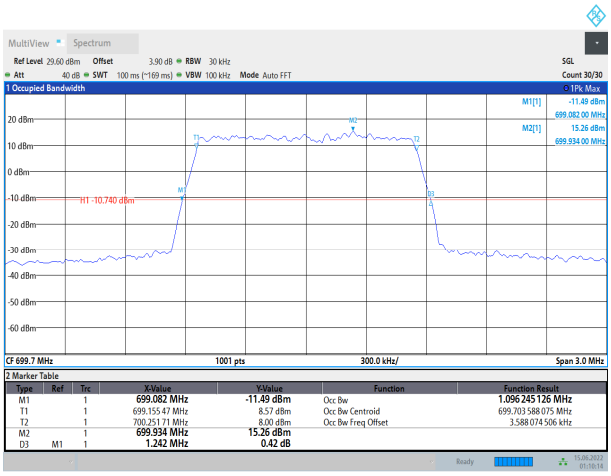
Band12-1.4MHz-64QAM-23017-6RB#0



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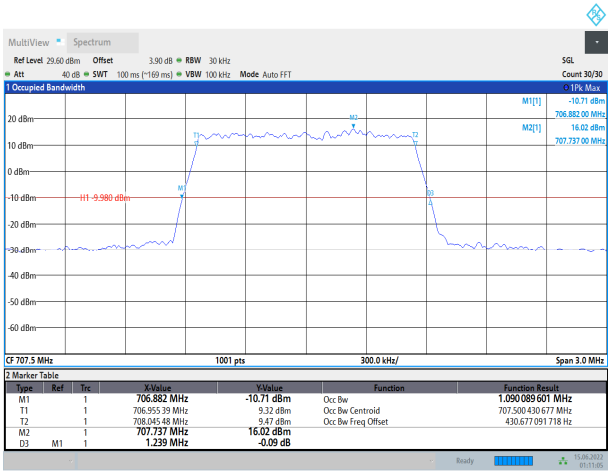
Band12-1.4MHz-64QAM-23095-6RB#0



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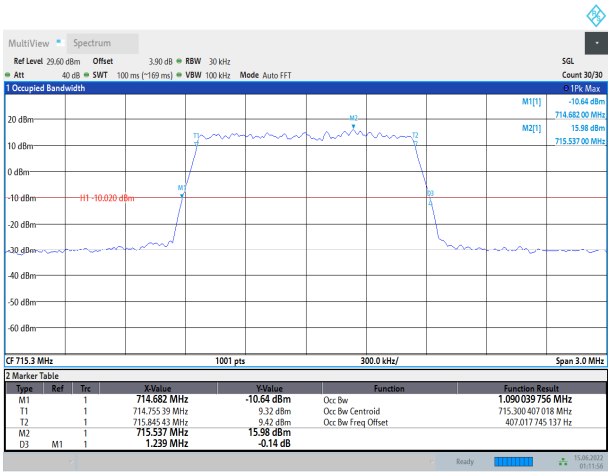
Band12-1.4MHz-64QAM-23173-6RB#0



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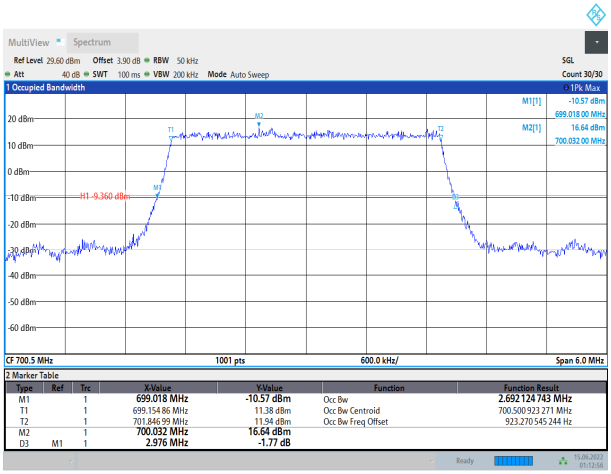
Band12-3MHz-QPSK-23025-15RB#0



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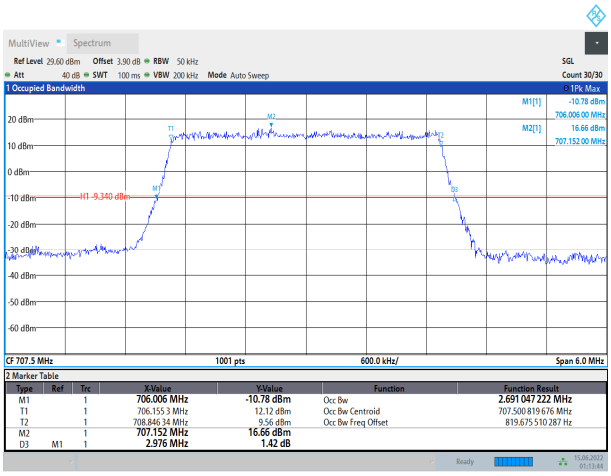
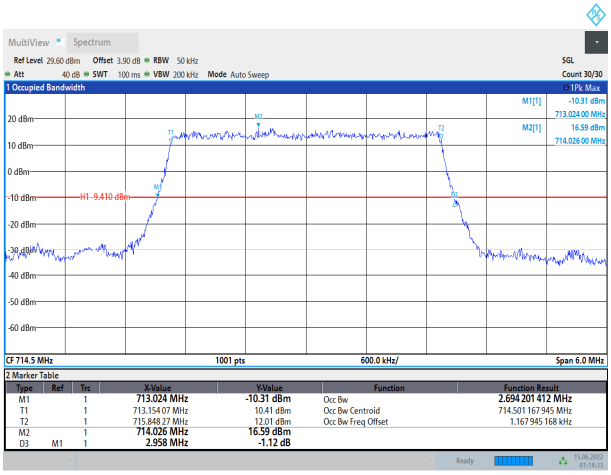
Band12-3MHz-QPSK-23095-15RB#0



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



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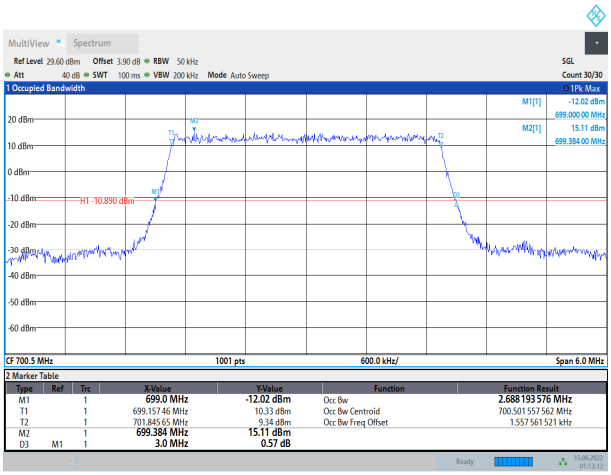
Band12-3MHz-16QAM-23025-15RB#0



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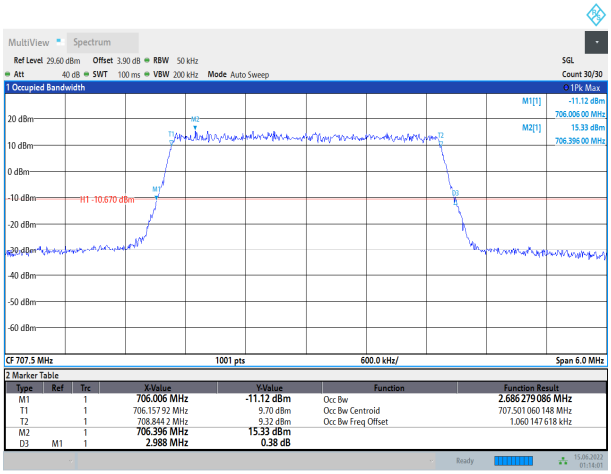
Band12-3MHz-16QAM-23095-15RB#0



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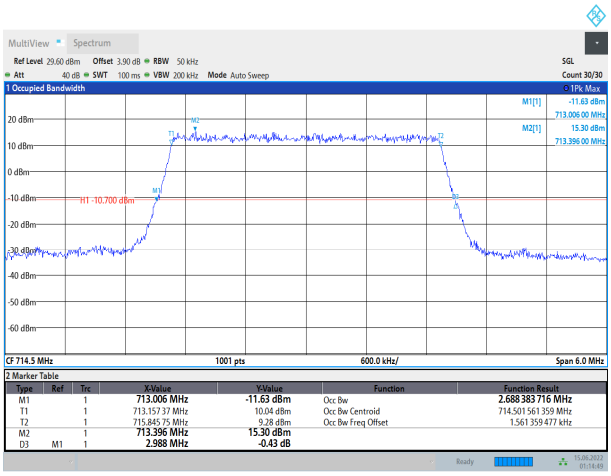
Band12-3MHz-16QAM-23165-15RB#0



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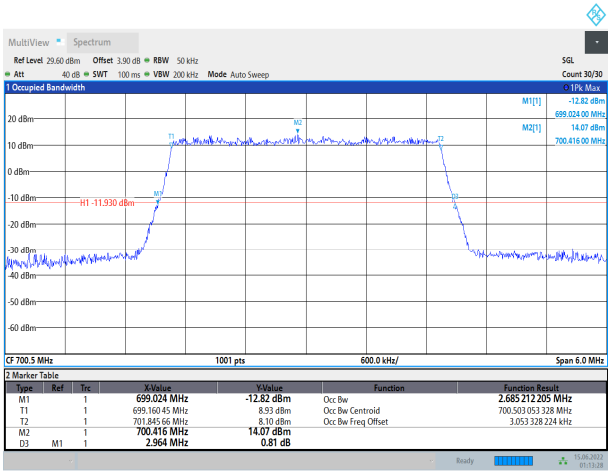
Band12-3MHz-64QAM-23025-15RB#0



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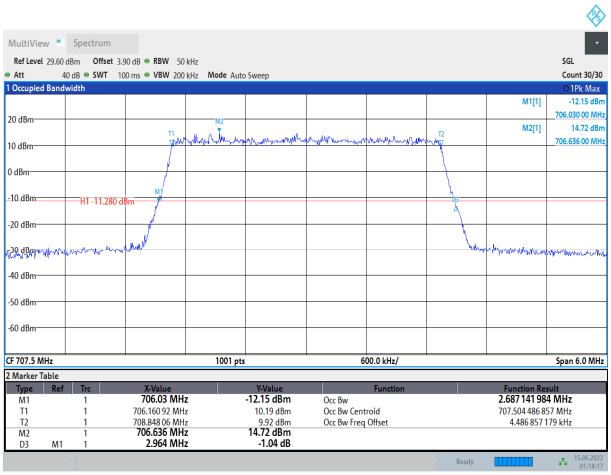
Band12-3MHz-64QAM-23095-15RB#0



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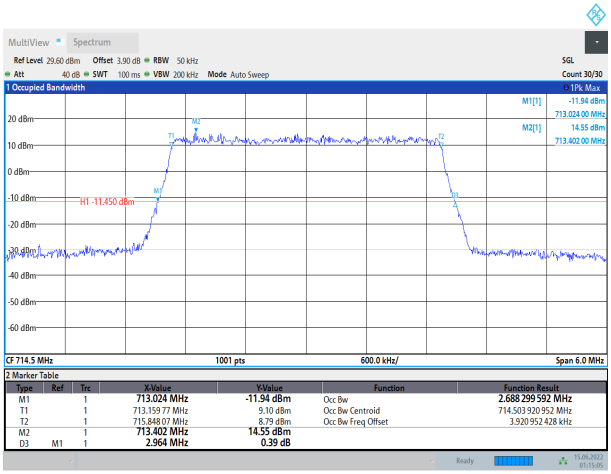

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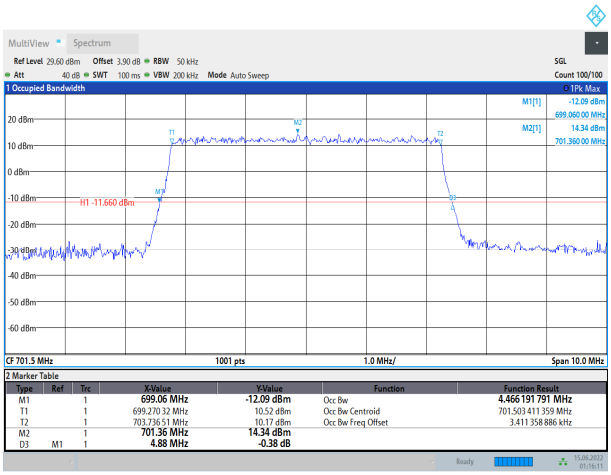
Band12-5MHz-QPSK-23035-25RB#0



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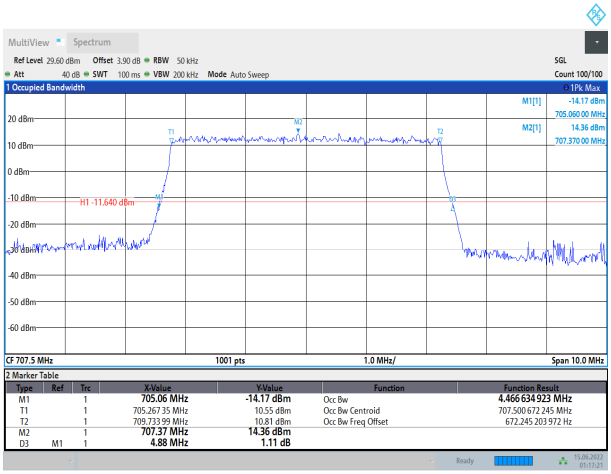

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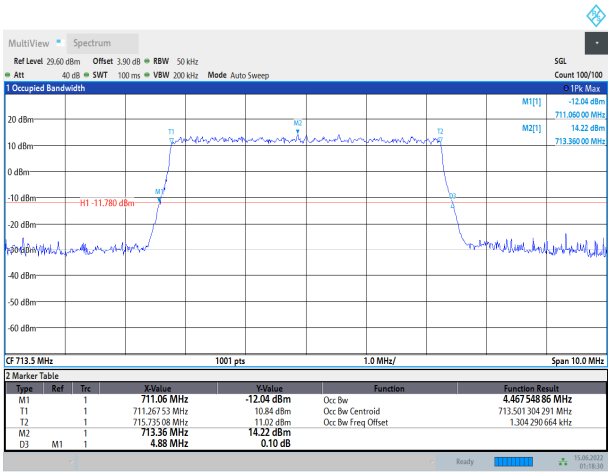
Band12-5MHz-QPSK-23155-25RB#0



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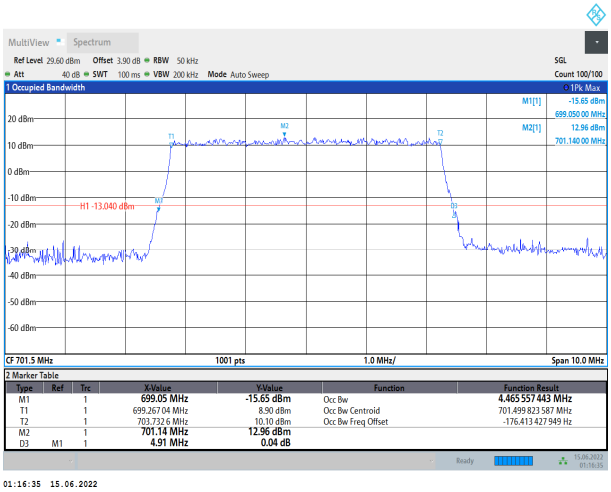

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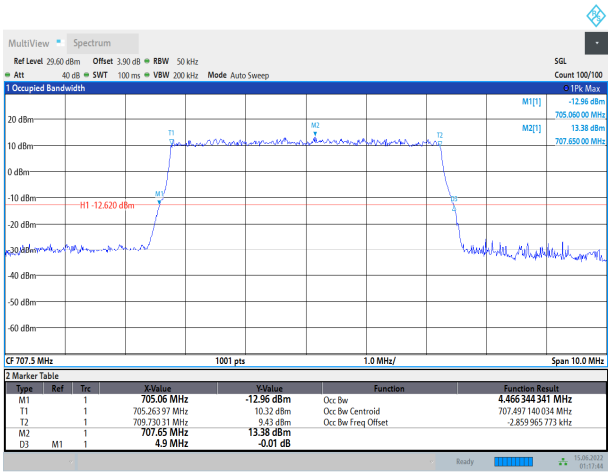
Band12-5MHz-16QAM-23095-25RB#0



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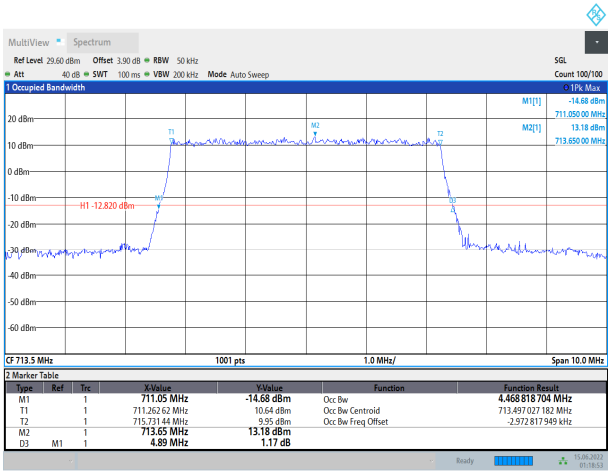

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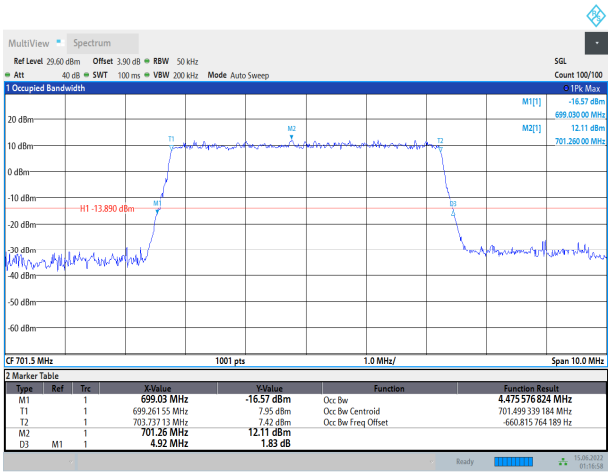
Band12-5MHz-64QAM-23035-25RB#0



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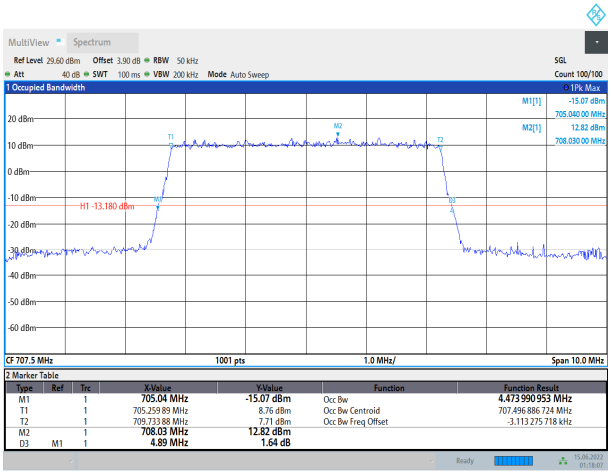

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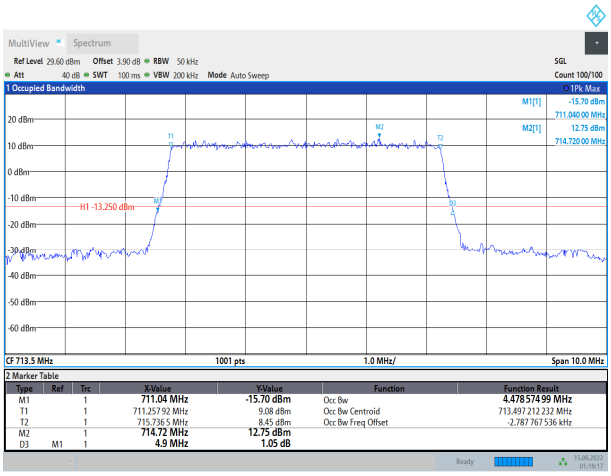
Band12-5MHz-64QAM-23155-25RB#0



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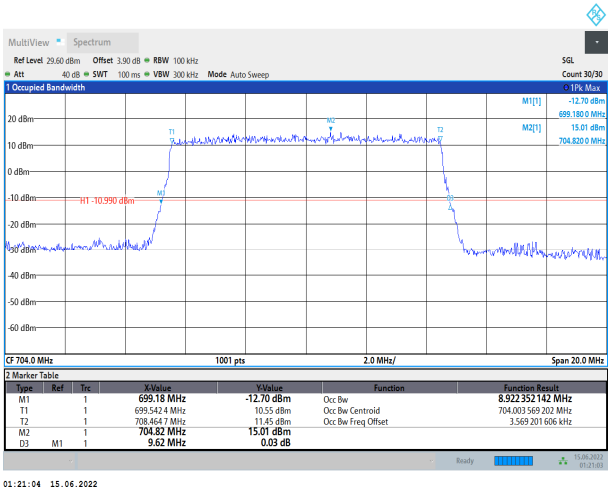

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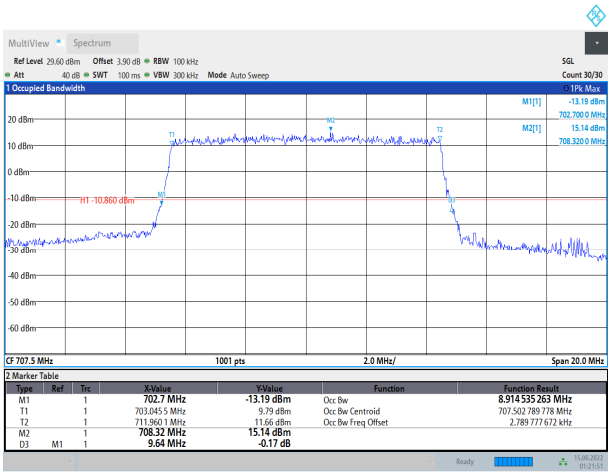
Band12-10MHz-QPSK-23095-50RB#0



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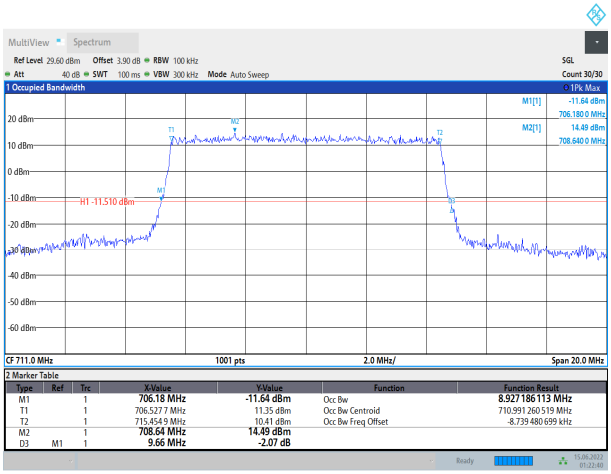

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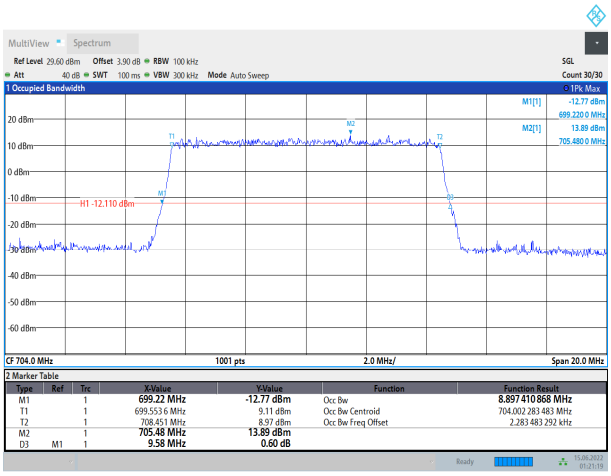
Band12-10MHz-16QAM-23060-50RB#0



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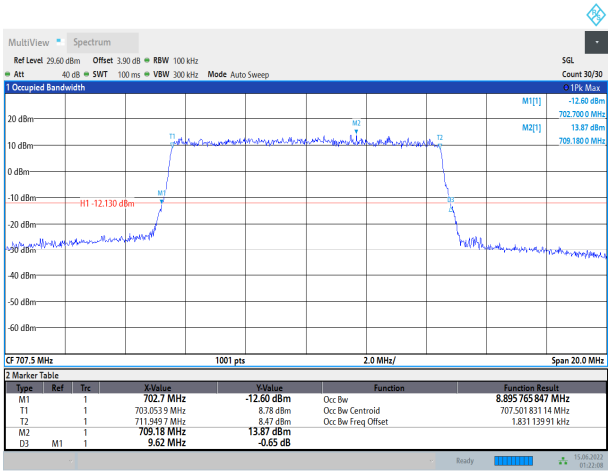

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Band12-10MHz-16QAM-23130-50RB#0

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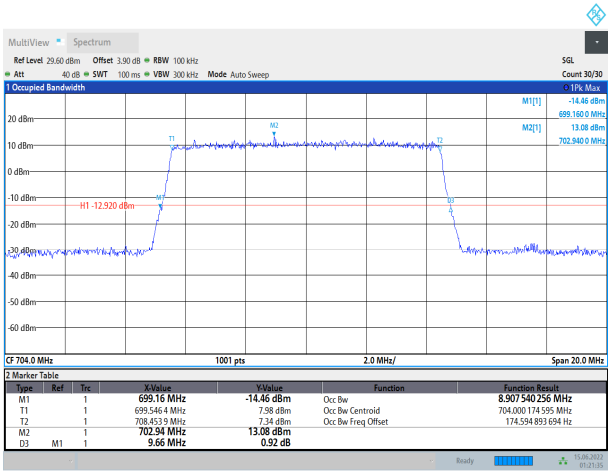

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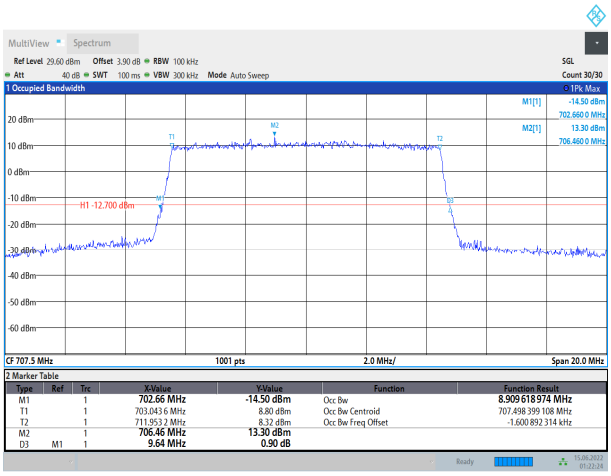

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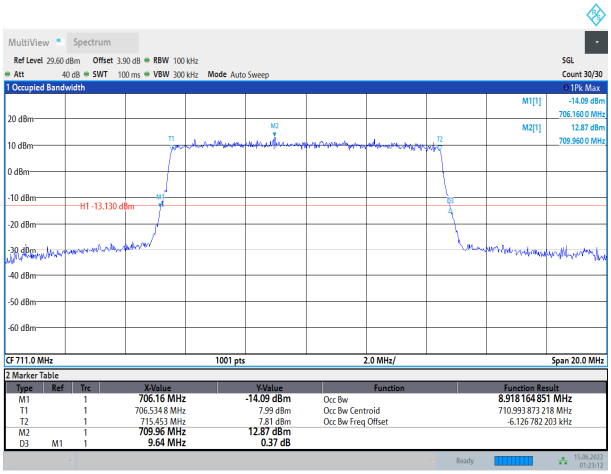

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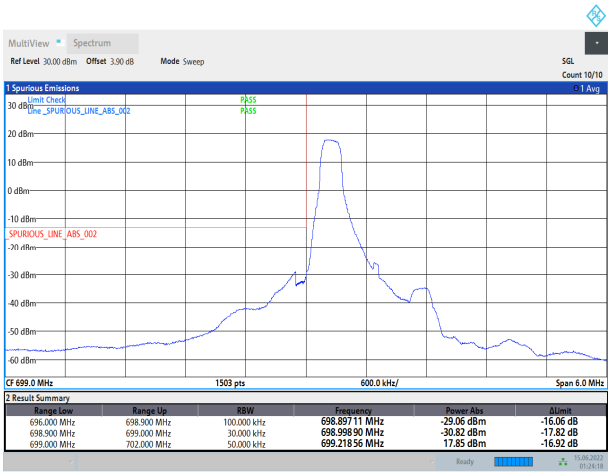
Band Edge

Test Graphs

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



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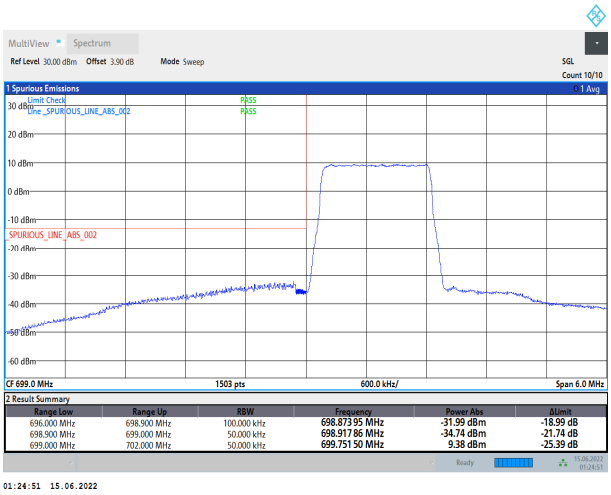

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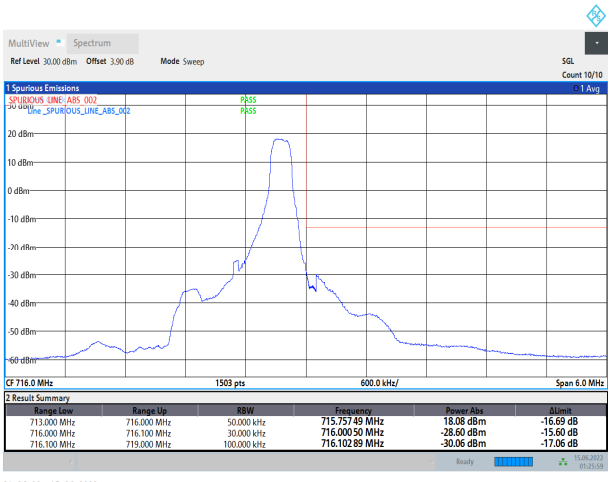
Band12-1.4MHz-QPSK-23173-1RB#5



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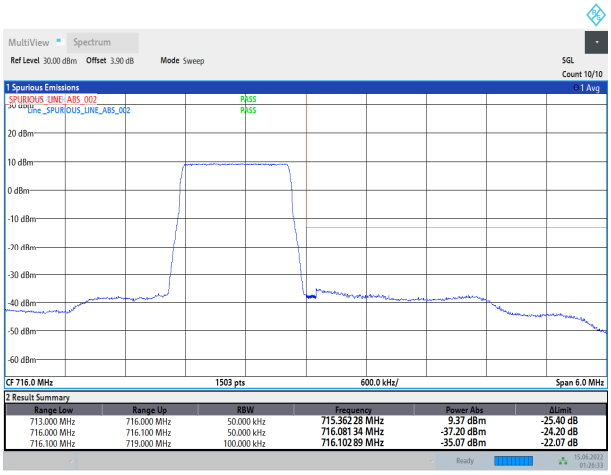
Band12-1.4MHz-QPSK-23173-6RB#0



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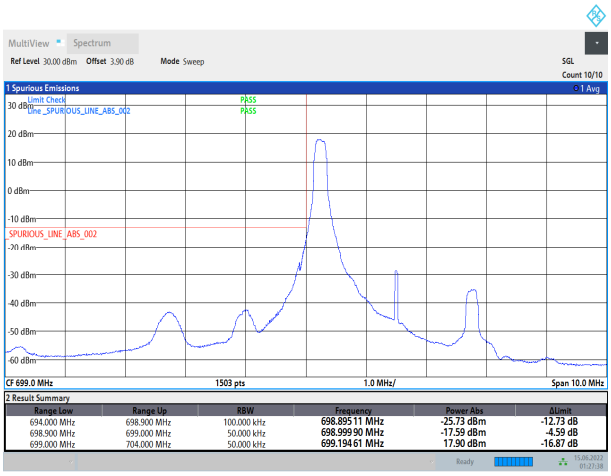
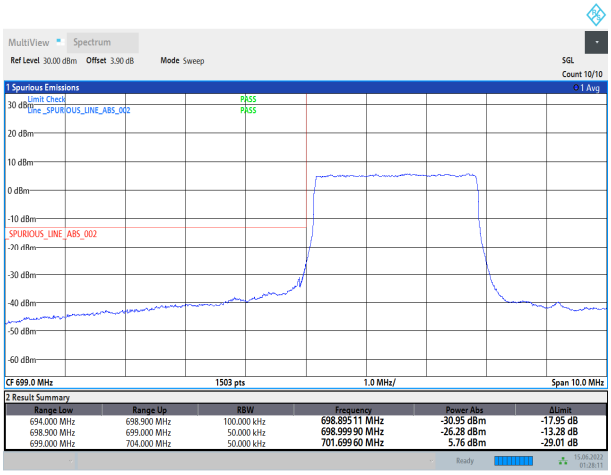
Band12-3MHz-QPSK-23025-1RB#0



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



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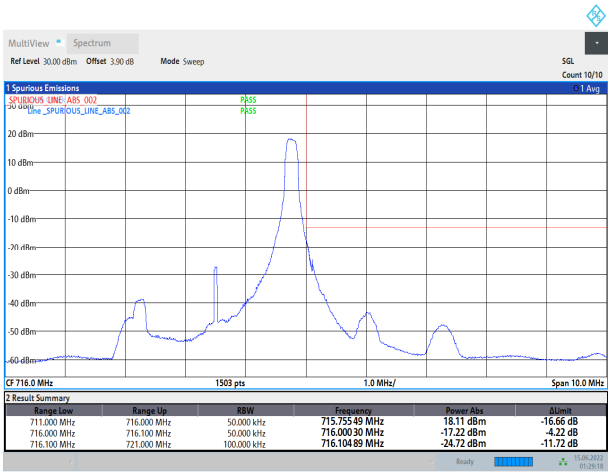
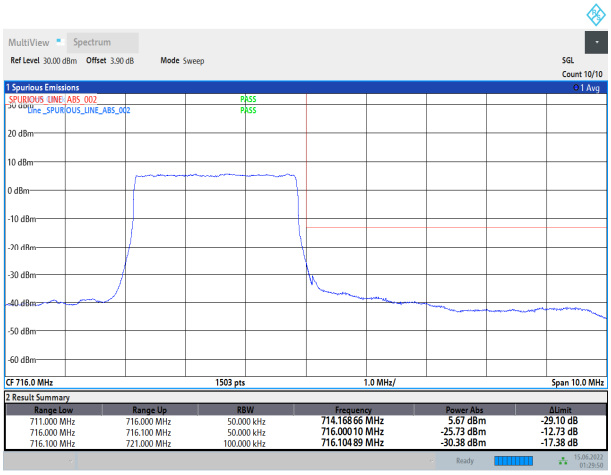
Band12-3MHz-QPSK-23165-1RB#14



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



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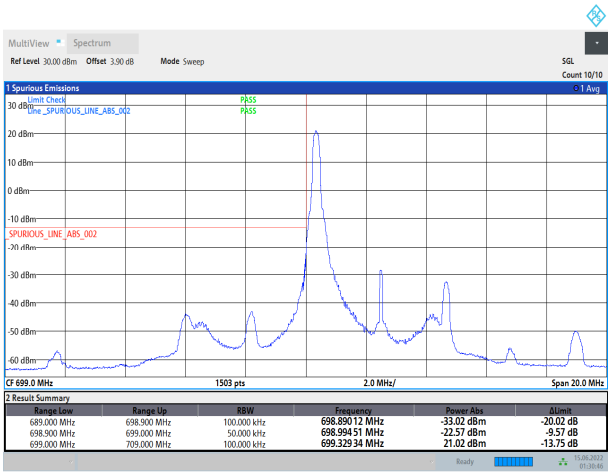
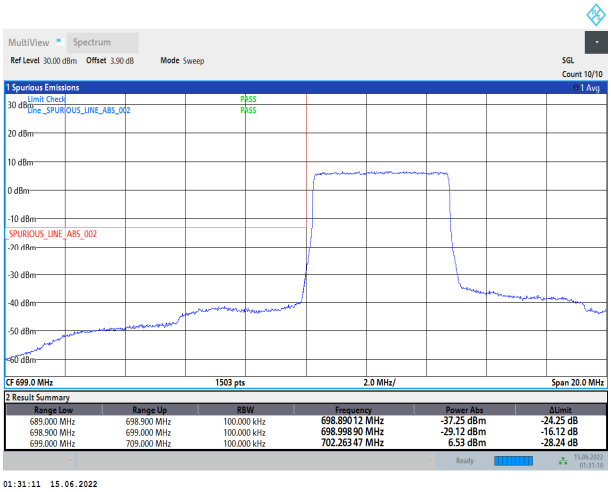
Band12-5MHz-QPSK-23035-1RB#0



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



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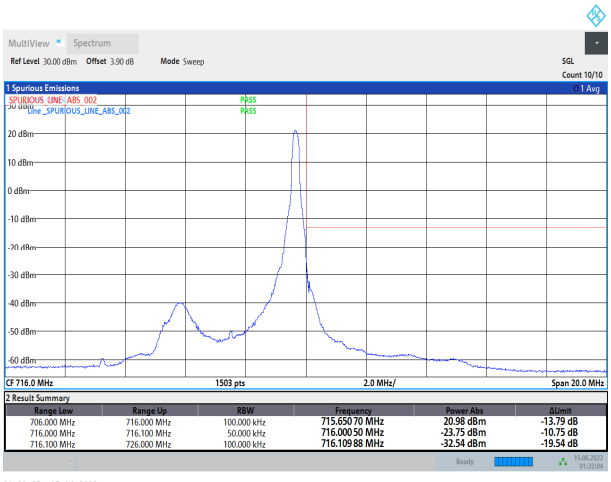
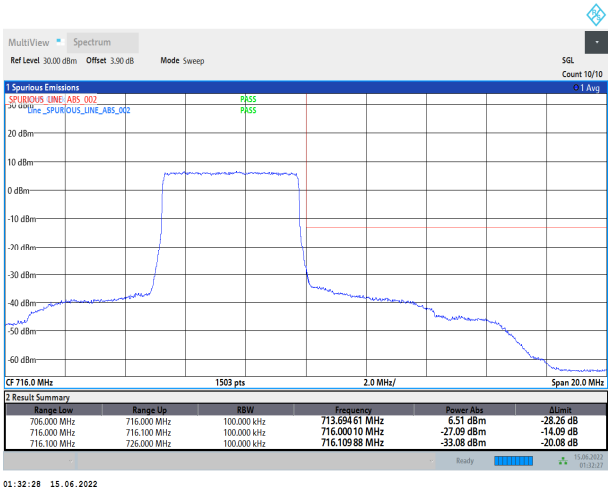
Band12-5MHz-QPSK-23155-1RB#24



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



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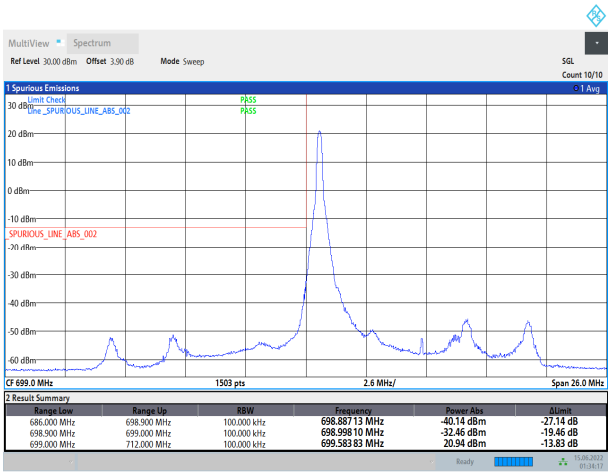
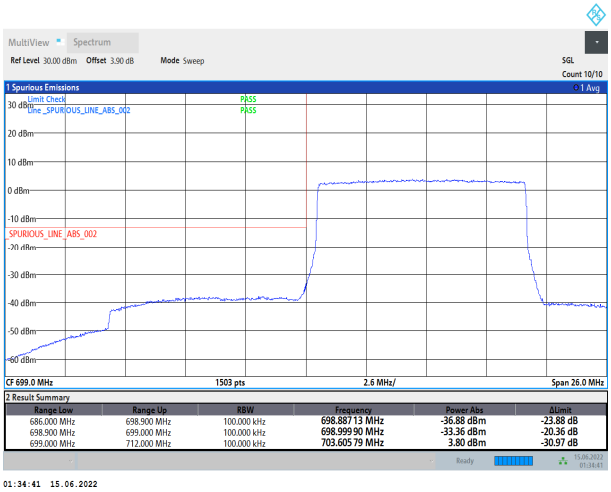
Band12-10MHz-QPSK-23060-1RB#0



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



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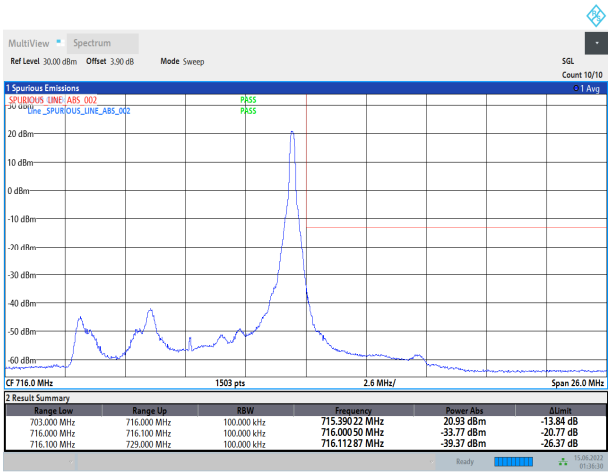
Band12-10MHz-QPSK-23130-1RB#49



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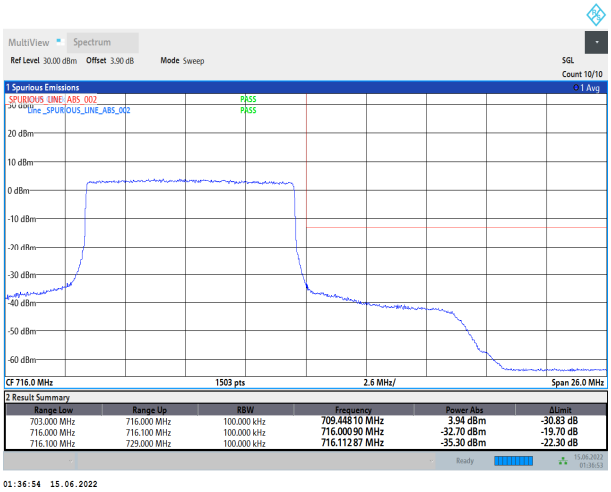

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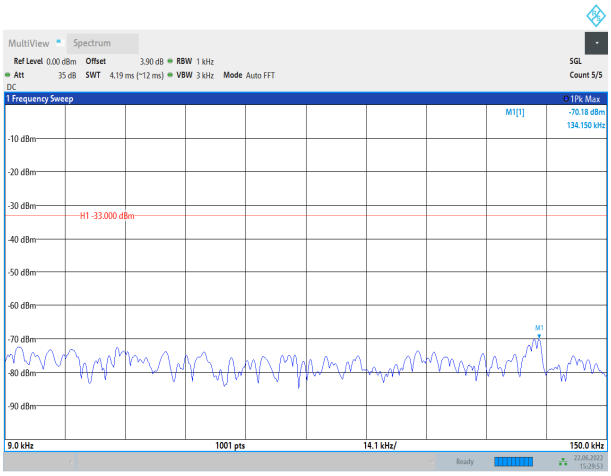
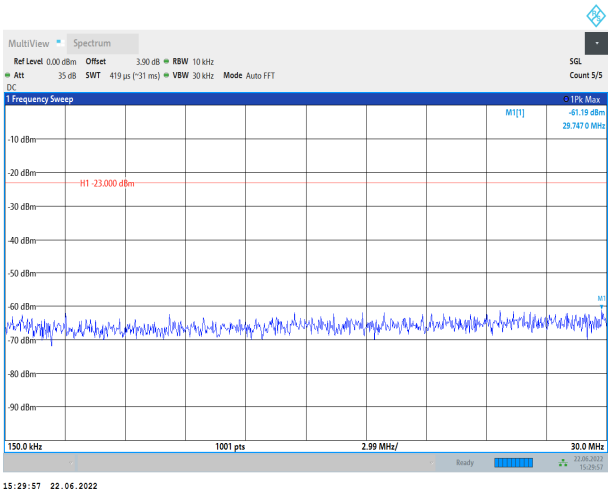
Conducted Spurious Emission

Test Graphs

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



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



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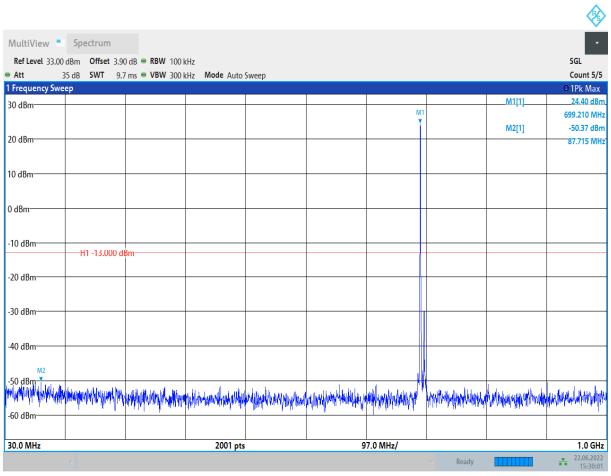
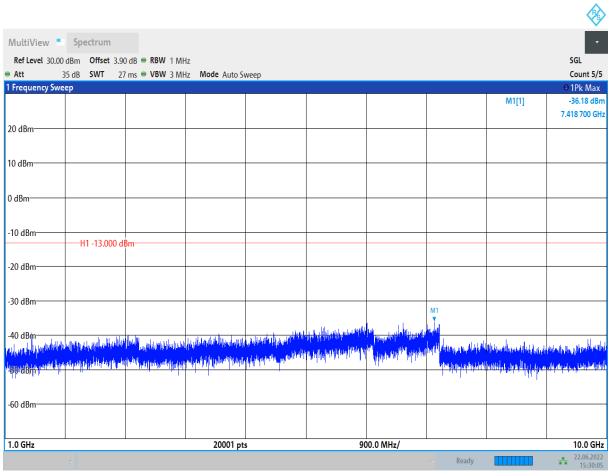
Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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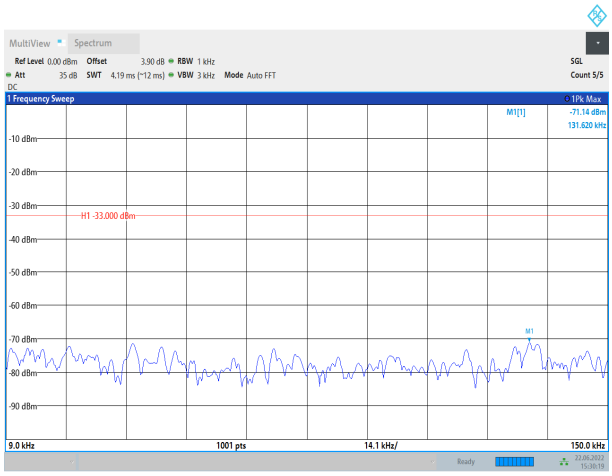
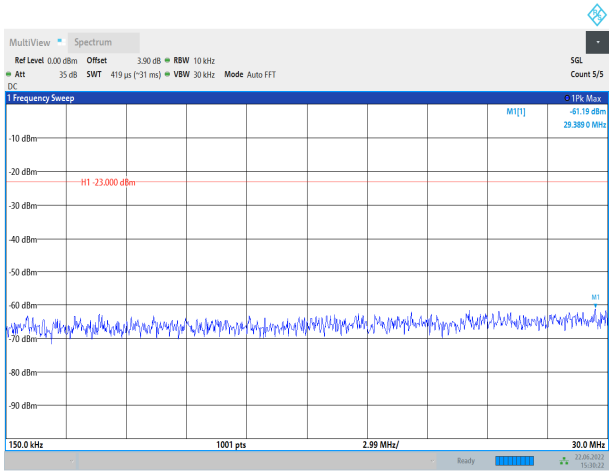
Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



15:30:19 22.06.2022

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



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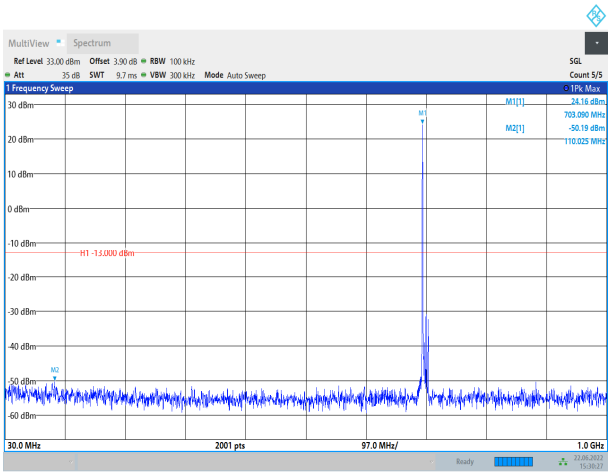
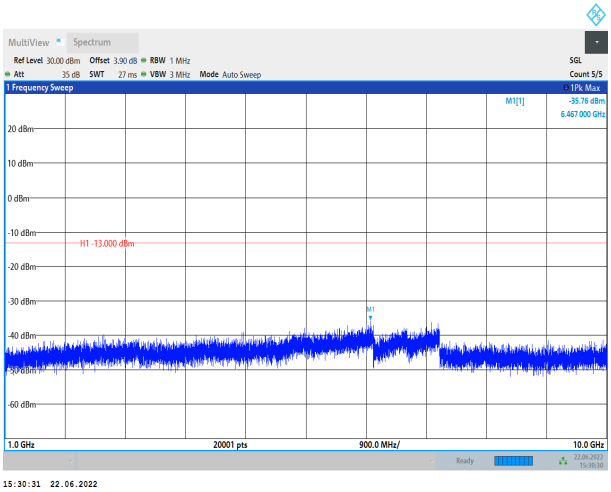
Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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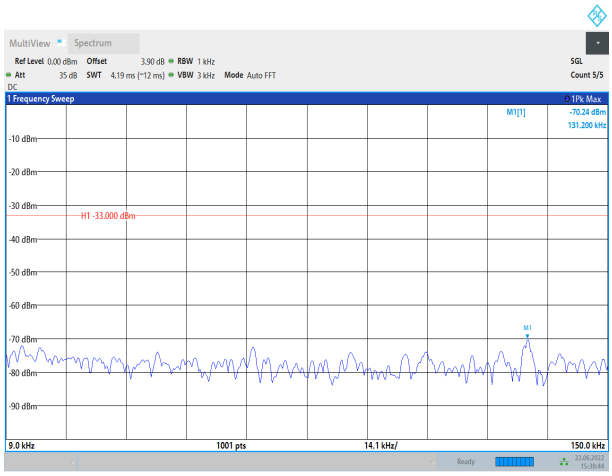
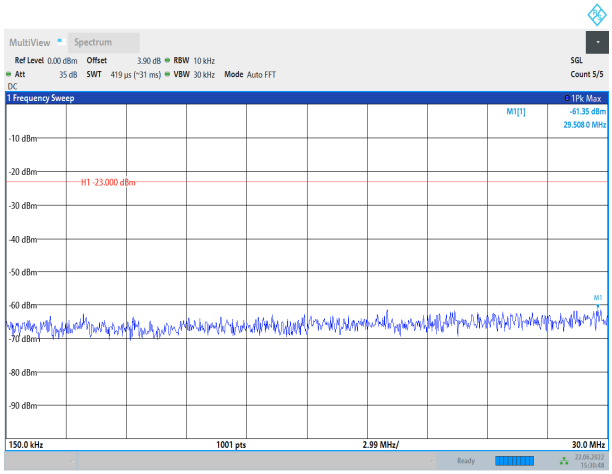
Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



15:30:45 22.06.2022

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



15:30:49 22.06.2022

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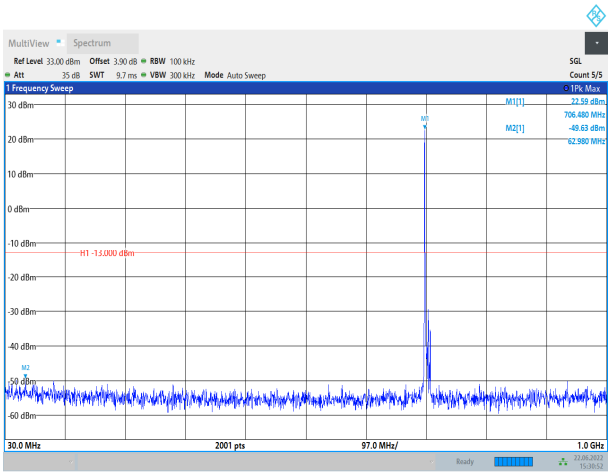
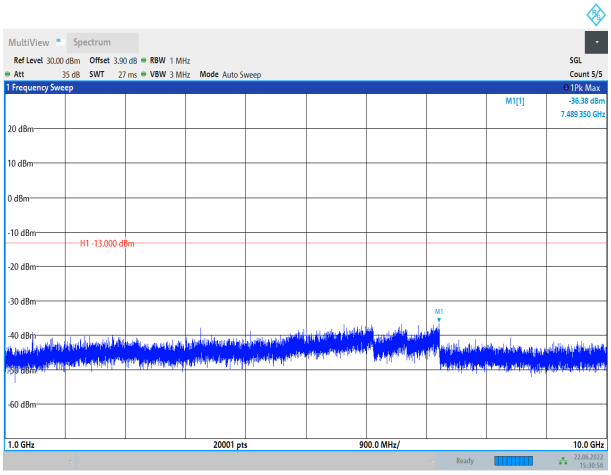
Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	53.63	-117.64	-64.01	-13.00	51.01	261	347	Horizontal
2	2098.7700	50.49	-115.99	-65.50	-13.00	52.50	175	0	Horizontal
3	2798.3600	50.82	-113.70	-62.88	-13.00	49.88	193	103	Horizontal
4	3497.9500	50.30	-112.28	-61.98	-13.00	48.98	172	0	Horizontal
5	4197.5400	48.91	-110.12	-61.21	-13.00	48.21	195	6	Horizontal
6	4897.1300	49.03	-108.25	-59.22	-13.00	46.22	134	225	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	52.98	-117.64	-64.66	-13.00	51.66	234	344	Vertical
2	2098.7700	50.46	-115.99	-65.53	-13.00	52.53	264	91	Vertical
3	2798.3600	50.95	-113.70	-62.75	-13.00	49.75	182	38	Vertical
4	3497.9500	51.55	-112.28	-60.73	-13.00	47.73	172	359	Vertical
5	4197.5400	49.20	-110.12	-60.92	-13.00	47.92	143	334	Vertical
6	4897.1300	48.97	-108.25	-59.28	-13.00	46.28	284	12	Vertical

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Test Band = LTE Band 12_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	53.11	-117.67	-64.56	-13.00	51.56	182	185	Horizontal
2	2109.2700	50.73	-115.94	-65.21	-13.00	52.21	175	356	Horizontal
3	2812.3600	50.78	-113.60	-62.82	-13.00	49.82	145	145	Horizontal
4	3515.4500	50.63	-112.23	-61.60	-13.00	48.60	192	172	Horizontal
5	4218.5400	48.59	-110.05	-61.46	-13.00	48.46	248	0	Horizontal
6	4921.6300	49.21	-108.23	-59.02	-13.00	46.02	234	293	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	52.03	-117.67	-65.64	-13.00	52.64	276	4	Vertical
2	2109.2700	52.22	-115.94	-63.72	-13.00	50.72	246	357	Vertical
3	2812.3600	51.58	-113.60	-62.02	-13.00	49.02	185	357	Vertical
4	3515.4500	51.36	-112.23	-60.87	-13.00	47.87	164	162	Vertical
5	4218.5400	49.11	-110.05	-60.94	-13.00	47.94	284	357	Vertical
6	4921.6300	49.31	-108.23	-58.92	-13.00	45.92	261	228	Vertical

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Test Band = LTE Band 12_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	51.43	-117.70	-66.27	-13.00	53.27	264	214	Horizontal
2	2124.5714	60.89	-115.89	-55.00	-13.00	42.00	294	52	Horizontal
3	2826.3600	49.97	-113.49	-63.52	-13.00	50.52	218	174	Horizontal
4	3532.9500	49.79	-112.18	-62.39	-13.00	49.39	167	280	Horizontal
5	4239.5400	49.33	-109.97	-60.64	-13.00	47.64	134	347	Horizontal
6	4946.1300	49.63	-108.22	-58.59	-13.00	45.59	182	118	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	51.11	-117.70	-66.59	-13.00	53.59	192	276	Vertical
2	2124	64.43	-115.89	-51.46	-13.00	38.46	134	118	Vertical
3	2826.3600	51.02	-113.49	-62.47	-13.00	49.47	143	53	Vertical
4	3532.9500	50.20	-112.18	-61.98	-13.00	48.98	294	132	Vertical
5	4239.5400	48.90	-109.97	-61.07	-13.00	48.07	243	304	Vertical
6	4946.1300	49.19	-108.22	-59.03	-13.00	46.03	182	172	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-3.10	-0.004382	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.60	0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.10	-0.004382	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	4.70	0.006643	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	3.20	0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	3.10	0.004382	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.60	-0.002261	PASS

---End of Attachment---

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