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# Appendix B.7

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data for

### SEWM2305000178RG01

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.46	21.76	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.63	21.93	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.51	21.81	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.62	20.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.62	21.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.78	22.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.66	21.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.75	21.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.66	21.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.78	22.08	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.63	21.93	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.78	21.08	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.75	21.05	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.88	21.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.71	21.01	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.74	20.04	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.89	21.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.03	21.33	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.91	21.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.85	20.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.85	21.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.86	21.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.84	21.14	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.85	20.15	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#0	20.64	19.94	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.81	20.11	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.69	19.99	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	19.64	18.94	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.8	20.1	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.94	20.24	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.85	20.15	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.77	19.07	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.85	20.15	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.99	20.29	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.8	20.1	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.81	19.11	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.63	21.93	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.65	21.95	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.66	21.96	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.7	21	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.79	22.09	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.78	22.08	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.77	22.07	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.8	21.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.8	22.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.79	22.09	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.76	22.06	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.86	21.16	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.85	21.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.85	21.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.89	21.19	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.73	20.03	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.91	21.21	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.04	21.34	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.87	21.17	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.83	20.13	34.77	PASS

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Band12	3MHz	16QAM	23165	1RB#0	22.1	21.4	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.93	21.23	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.92	21.22	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.86	20.16	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.83	20.13	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.89	20.19	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.81	20.11	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.74	19.04	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.99	20.29	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.94	20.24	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.04	20.34	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.83	19.13	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.97	20.27	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.99	20.29	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21	20.3	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.9	19.2	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.49	21.79	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.76	22.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.54	21.84	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.6	20.9	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.59	21.89	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.88	22.18	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.57	21.87	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.73	21.03	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.63	21.93	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.89	22.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.52	21.82	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.76	21.06	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.66	20.96	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.97	21.27	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.73	21.03	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.63	19.93	34.77	PASS

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Band12	5MHz	16QAM	23095	1RB#0	21.77	21.07	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.12	21.42	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.77	21.07	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.76	20.06	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.88	21.18	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.1	21.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.66	20.96	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.75	20.05	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.71	20.01	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.94	20.24	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.73	20.03	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.66	18.96	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.79	20.09	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.05	20.35	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.79	20.09	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.79	19.09	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.89	20.19	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.12	20.42	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.67	19.97	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.81	19.11	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.53	21.83	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.78	22.08	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.62	21.92	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.77	21.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.63	21.93	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.86	22.16	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.65	21.95	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.77	21.07	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.65	21.95	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.77	22.07	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.3	21.6	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.61	20.91	34.77	PASS



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Band12	10MHz	16QAM	23060	1RB#0	21.74	21.04	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.05	21.35	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.77	21.07	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.76	20.06	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.89	21.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.97	21.27	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.76	21.06	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.83	20.13	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.8	21.1	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.72	21.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.49	20.79	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.7	20	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.76	20.06	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.01	20.31	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.81	20.11	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.79	19.09	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.75	20.05	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21	20.3	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.75	20.05	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.83	19.13	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.84	20.14	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.94	20.24	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.69	19.99	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.81	19.11	34.77	PASS

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## Effective (Isotropic) Radiated Power Output Data for

### SEWM2309000392RG01

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	5MHz	QPSK	23035	1RB#0	22.31	21.61	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.6	21.9	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.32	21.62	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.48	20.78	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.47	21.77	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.74	22.04	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.39	21.69	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.5	20.8	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.48	21.78	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.7	22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.4	21.7	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.6	20.9	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.43	20.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.82	21.12	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.51	20.81	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.46	19.76	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.59	20.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.97	21.27	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.64	20.94	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.59	19.89	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.75	21.05	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.89	21.19	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.43	20.73	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.56	19.86	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.57	19.87	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.71	20.01	34.77	PASS

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Band12	5MHz	64QAM	23035	1RB#24	20.56	19.86	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.51	18.81	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.64	19.94	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.9	20.2	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.59	19.89	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.56	18.86	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.78	20.08	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.01	20.31	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.52	19.82	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.59	18.89	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.36	21.66	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.61	21.91	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.39	21.69	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.56	20.86	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.45	21.75	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.71	22.01	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.45	21.75	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.56	20.86	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.48	21.78	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.57	21.87	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.16	21.46	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.49	20.79	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.62	20.92	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.92	21.22	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.63	20.93	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.61	19.91	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.68	20.98	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.76	21.06	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.62	20.92	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.67	19.97	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.62	20.92	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.51	20.81	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.26	20.56	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.55	19.85	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.55	19.85	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.86	20.16	34.77	PASS

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Band12	10MHz	64QAM	23060	1RB#49	20.65	19.95	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.67	18.97	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.63	19.93	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.8	20.1	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.53	19.83	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.71	19.01	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.63	19.93	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.76	20.06	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.54	19.84	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.63	18.93	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	5.24	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.16	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.82	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.94	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.88	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.20	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.30	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.32	13	PASS



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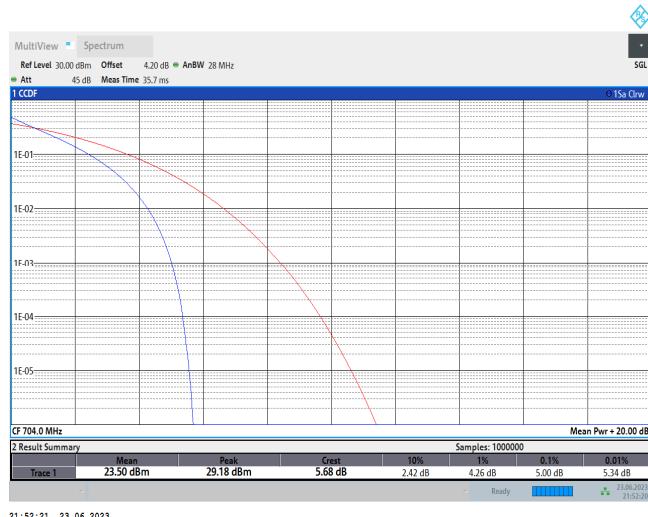
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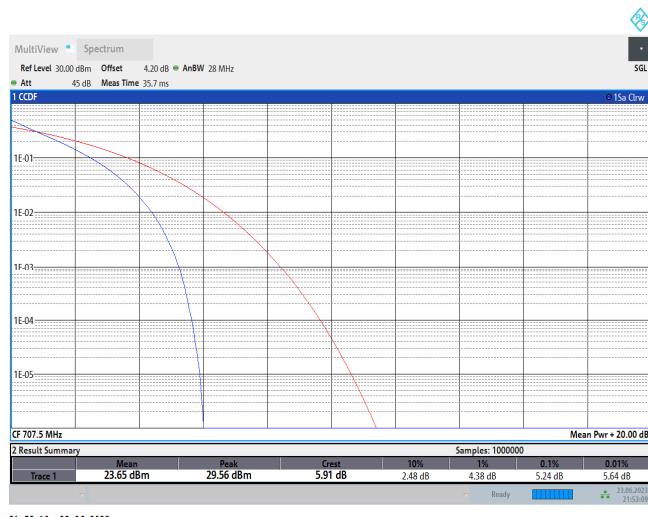
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## Test Graphs

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



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



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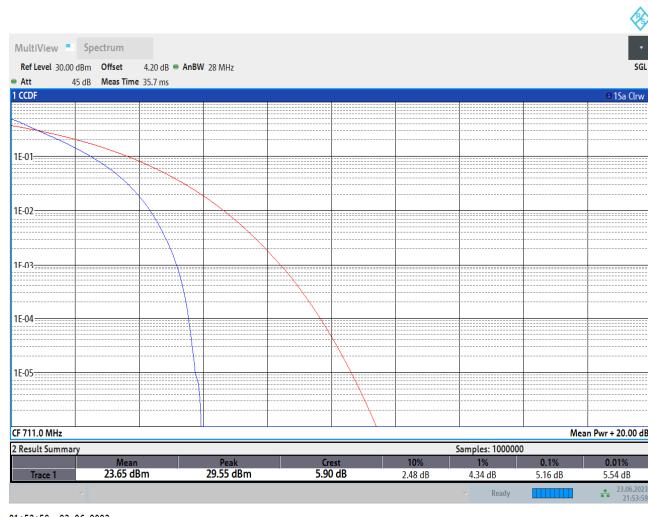


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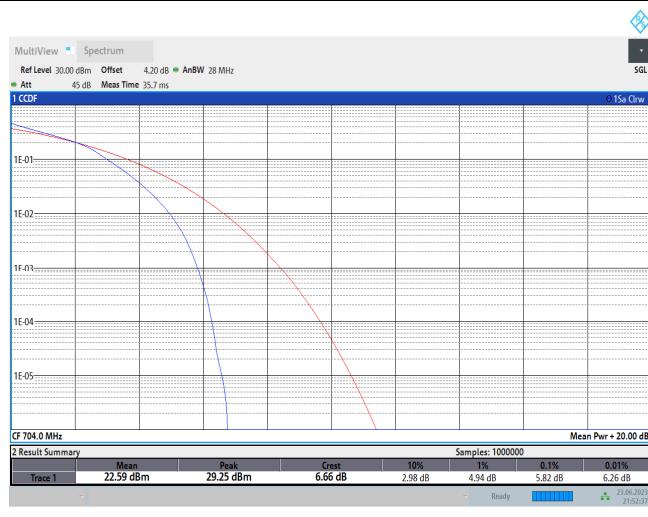
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## Band12-10MHz-QPSK-23130-50RB#0



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



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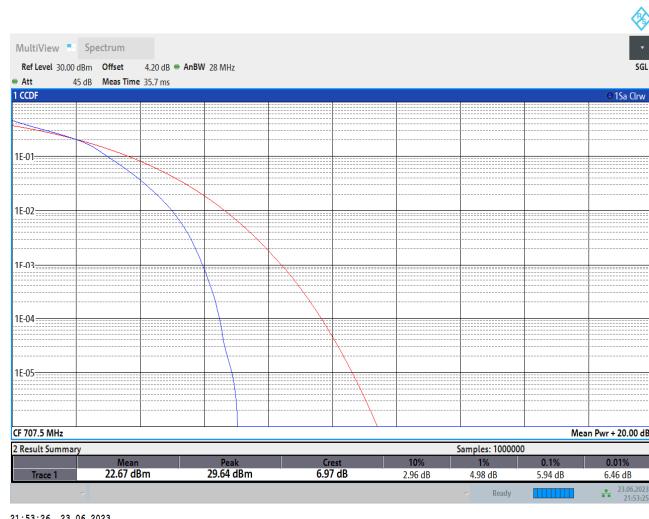


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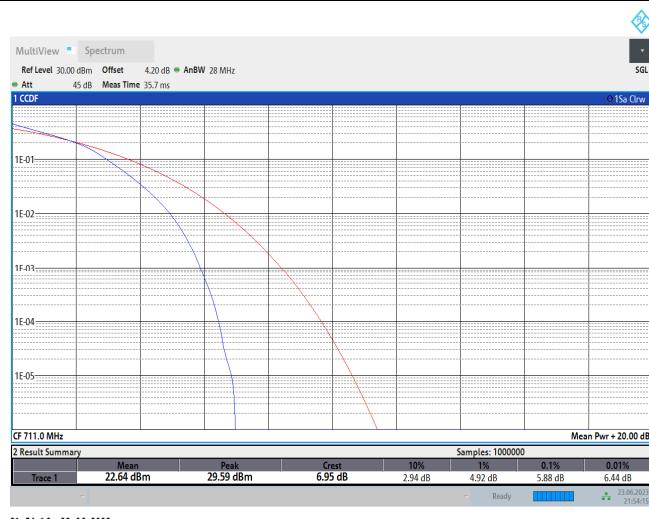
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## Band12-10MHz-16QAM-23095-50RB#0



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



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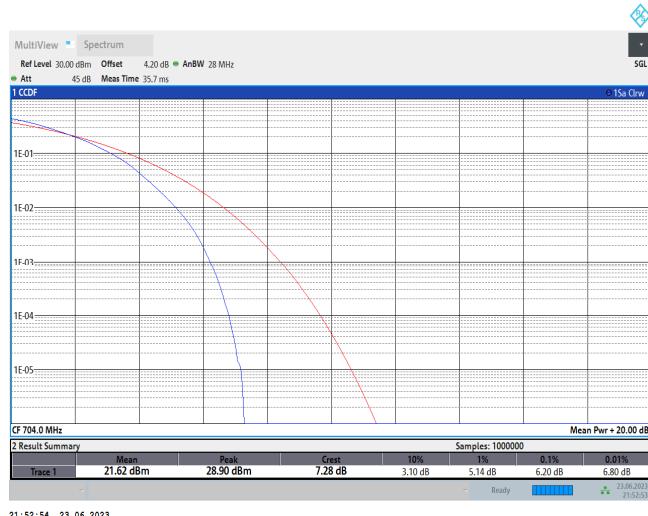


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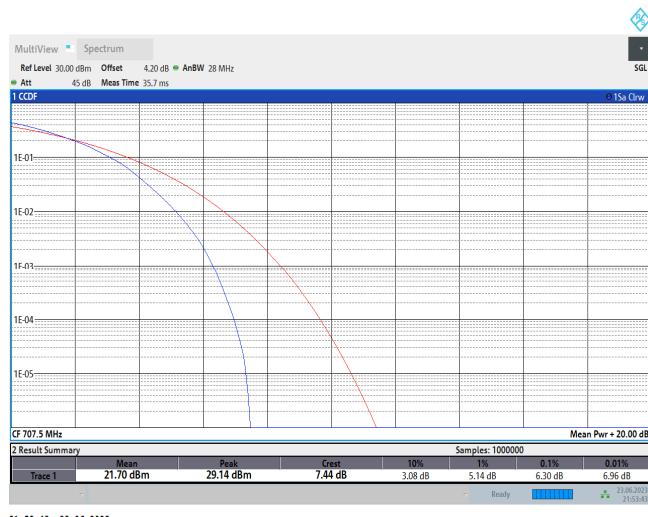
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## Band12-10MHz-64QAM-23095-50RB#0



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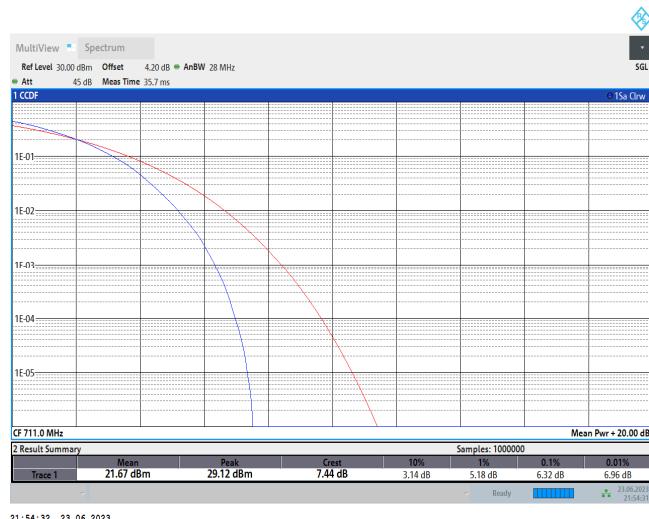


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## Band12-10MHz-64QAM-23130-50RB#0



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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	1.077	1.25	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.077	1.24	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.086	1.27	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.079	1.17	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.091	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.073	1.23	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.082	1.25	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.087	1.28	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.680	2.89	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.692	2.87	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.680	2.86	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.681	2.89	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.664	2.84	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.687	2.84	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.701	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.674	2.85	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.683	2.86	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.465	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.478	4.92	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.473	4.86	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.462	4.88	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.469	4.86	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.460	5.01	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.506	4.93	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.480	5.02	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.483	4.92	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.936	9.64	PASS

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Band12	10MHz	QPSK	23095	50RB#0	8.921	9.56	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.898	9.68	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.913	9.70	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.922	9.54	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.938	9.64	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.936	9.40	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.938	9.74	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.919	9.42	PASS

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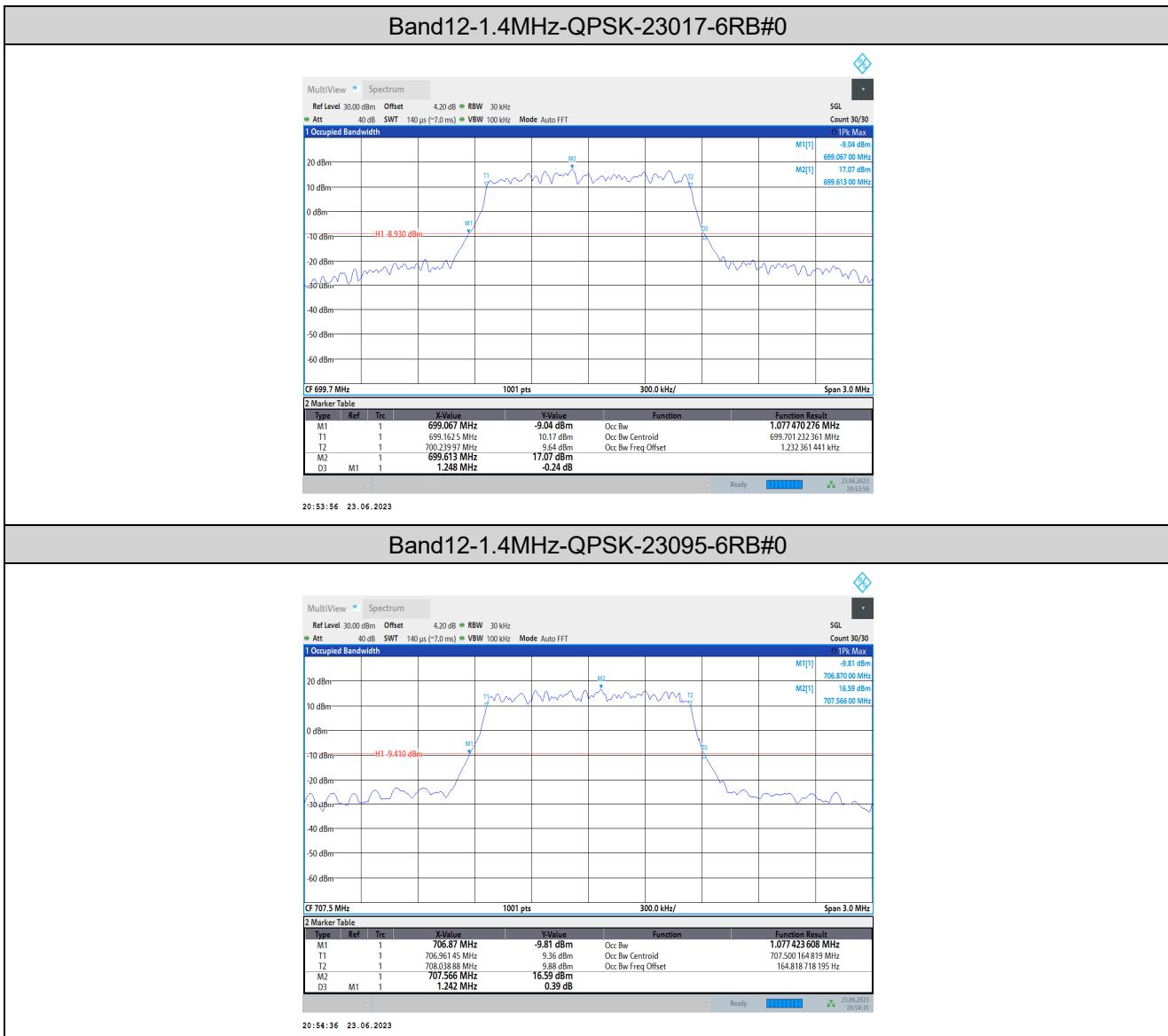


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## Test Graphs



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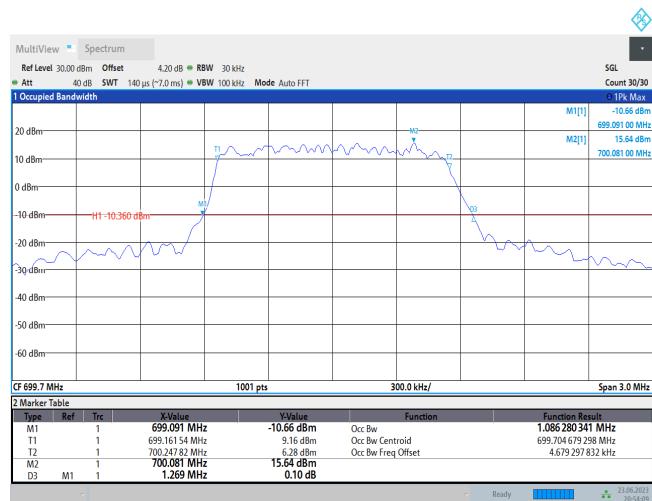
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## Band12-1.4MHz-QPSK-23173-6RB#0



20:55:15 23.06.2023

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



20:54:09 23.06.2023

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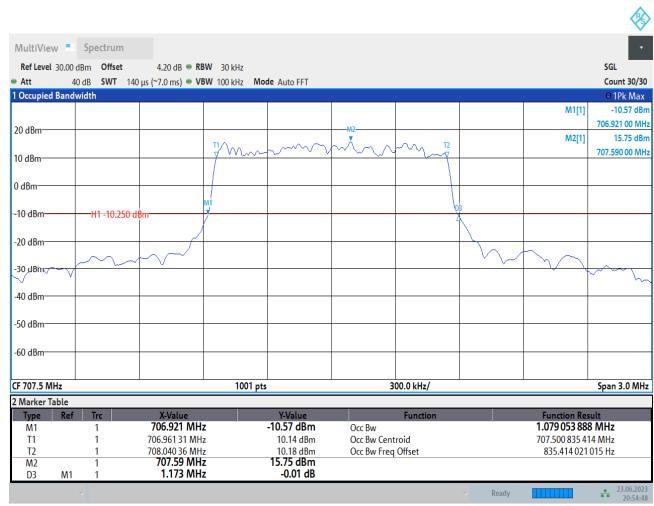
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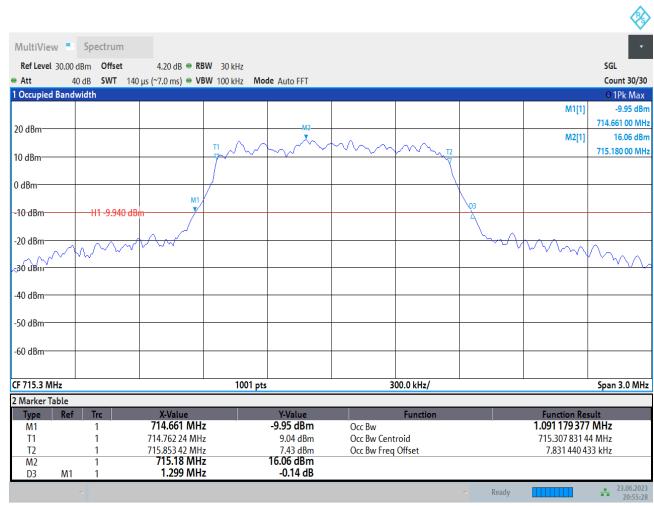
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## Band12-1.4MHz-16QAM-23095-6RB#0



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



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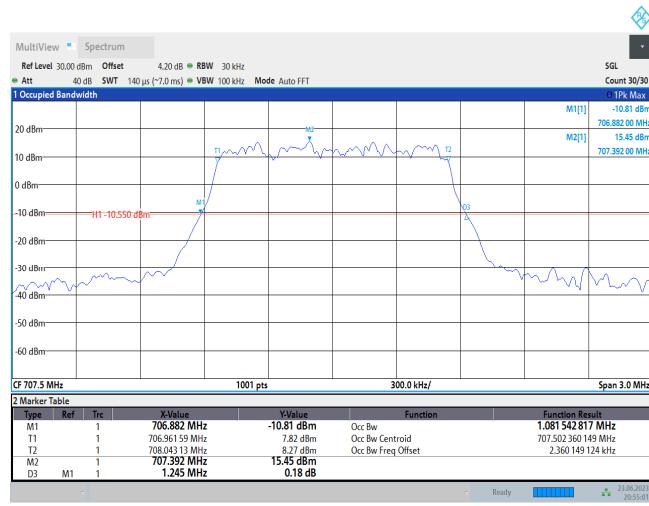
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## Band12-1.4MHz-64QAM-23017-6RB#0



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



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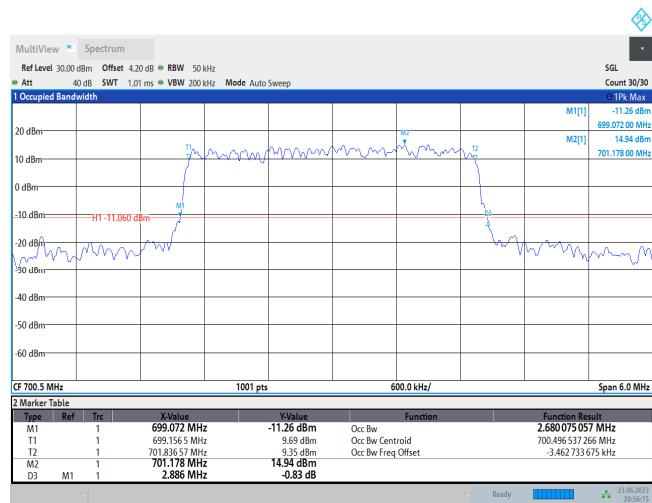
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## Band12-1.4MHz-64QAM-23173-6RB#0



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



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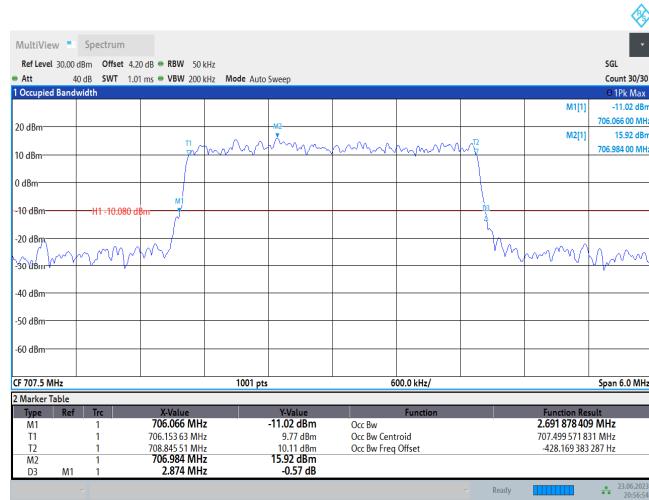


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## Band12-3MHz-QPSK-23095-15RB#0



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



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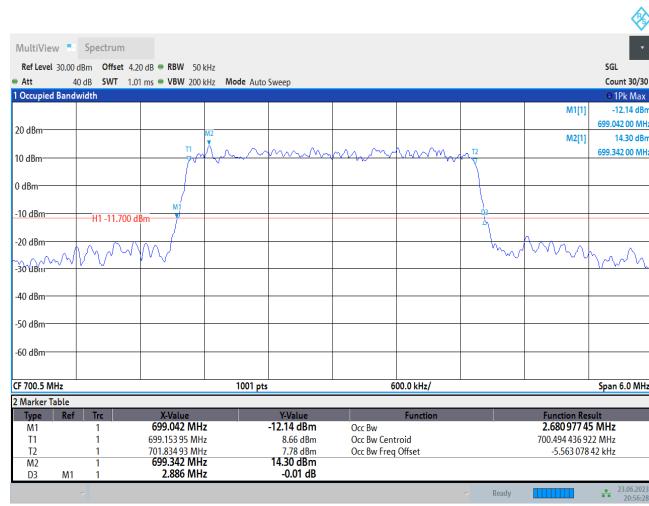


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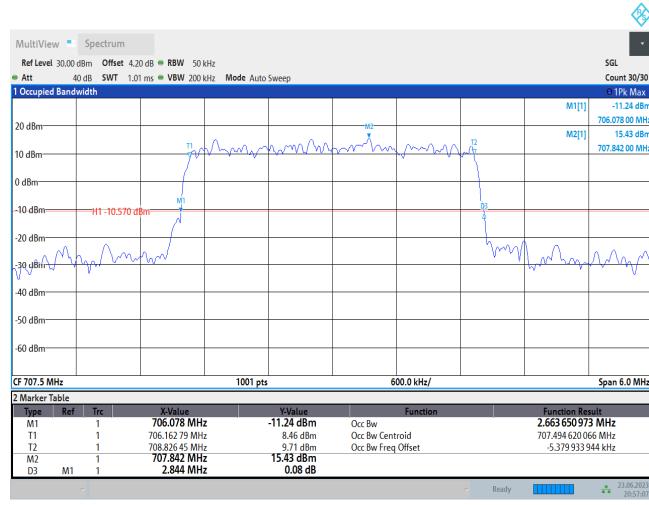
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## Band12-3MHz-16QAM-23025-15RB#0



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



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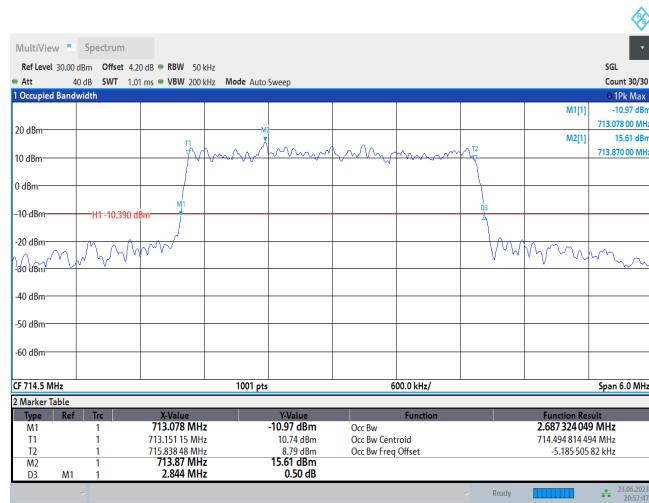


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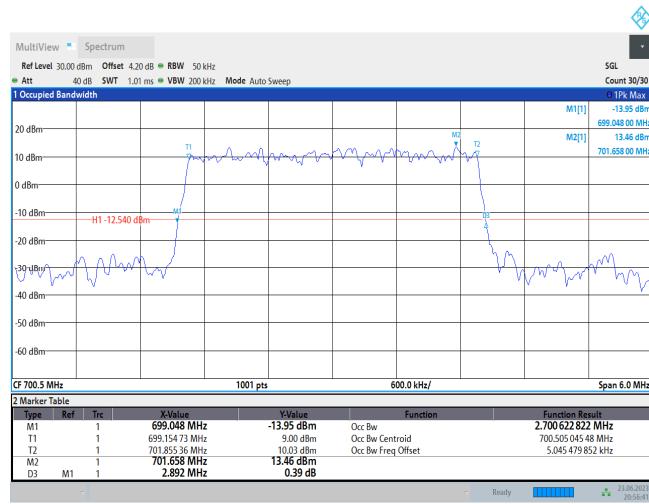
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## Band12-3MHz-16QAM-23165-15RB#0



20:57:48 23.06.2023

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



20:56:42 23.06.2023

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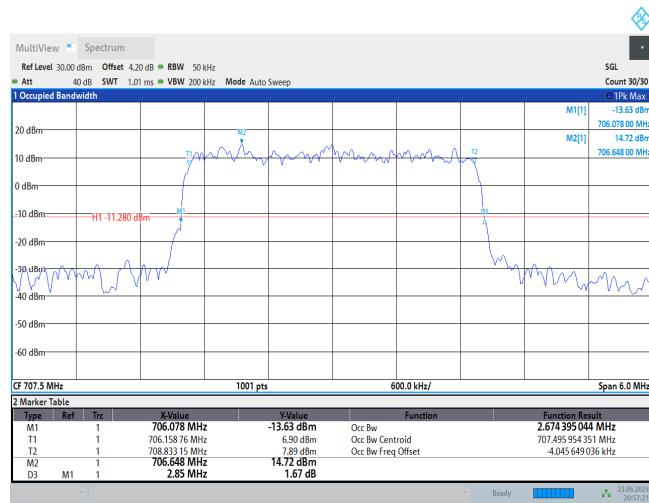
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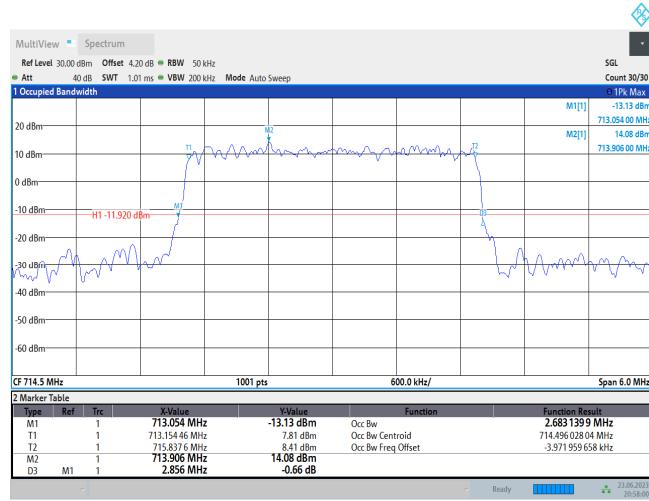
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## Band12-3MHz-64QAM-23095-15RB#0



20:57:21 23.06.2023

## Band12-3MHz-64QAM-23165-15RB#0



20:58:01 23.06.2023

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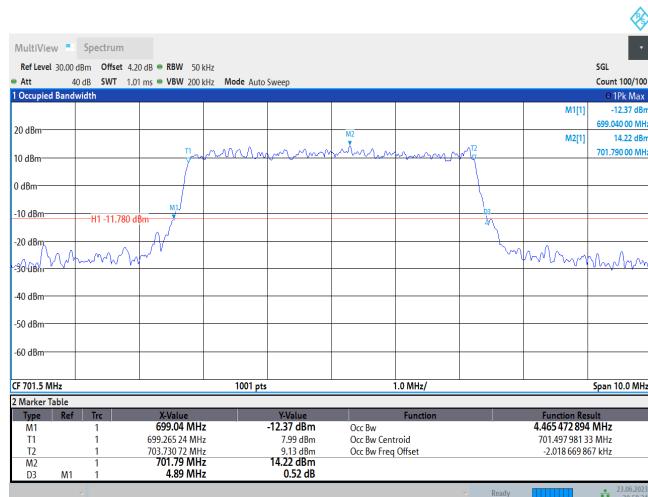
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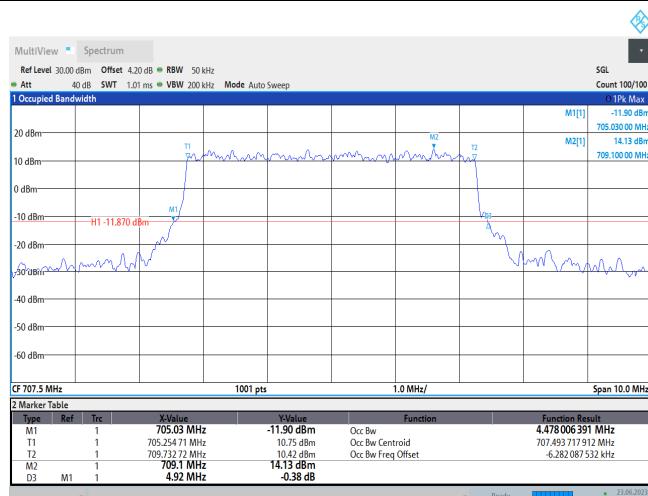
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## Band12-5MHz-QPSK-23035-25RB#0



20:58:35 23.06.2023

## Band12-5MHz-QPSK-23095-25RB#0



20:59:14 23.06.2023

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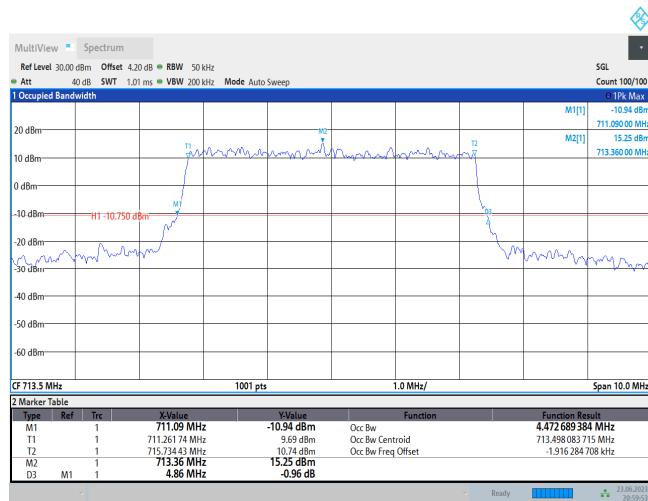
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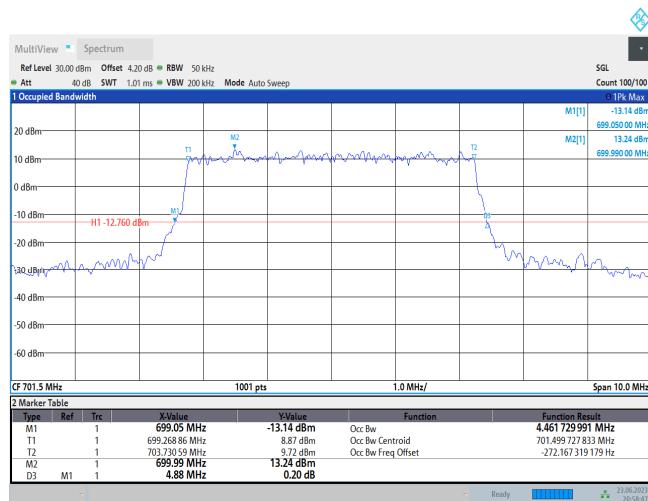
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## Band12-5MHz-QPSK-23155-25RB#0



20:59:54 23.06.2023

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



20:58:48 23.06.2023

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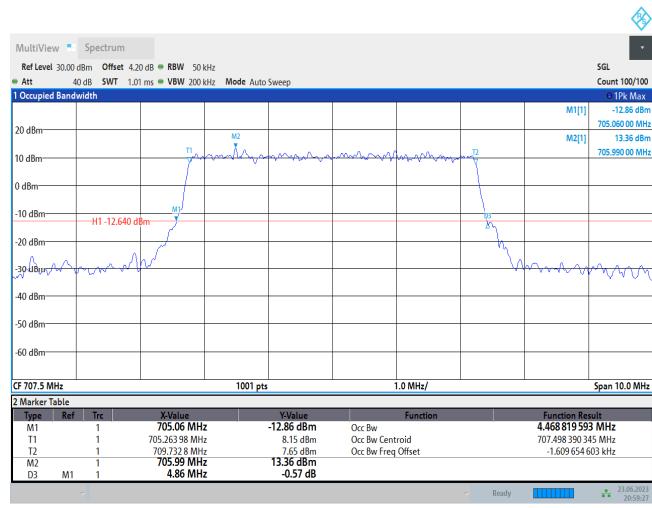
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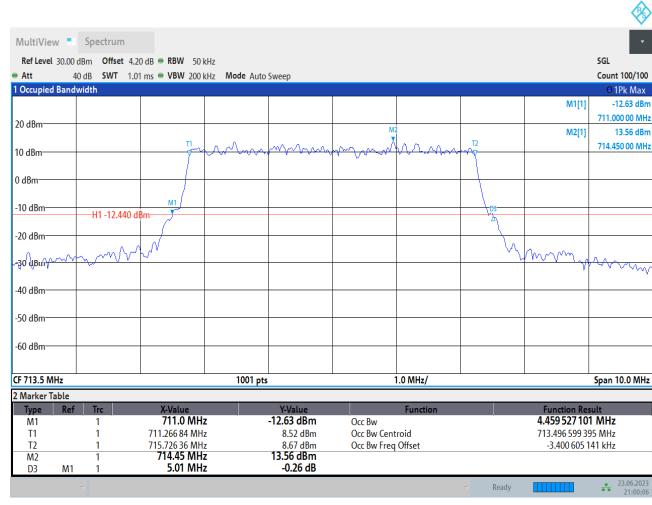
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## Band12-5MHz-16QAM-23095-25RB#0



20:59:28 23.06.2023

## Band12-5MHz-16QAM-23155-25RB#0



21:00:07 23.06.2023

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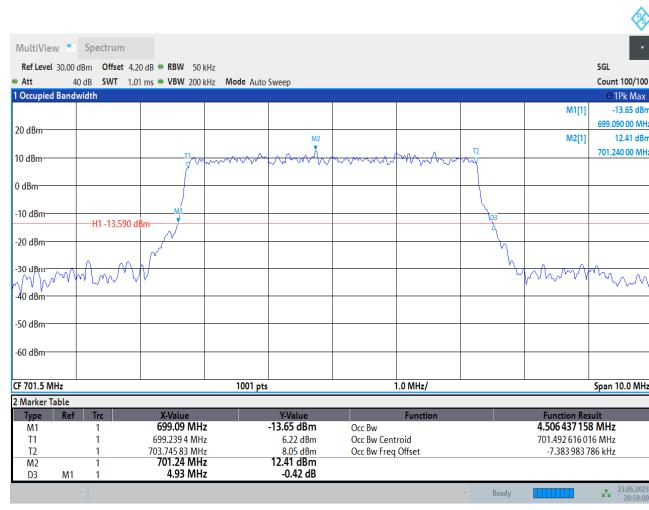
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## Band12-5MHz-64QAM-23035-25RB#0



20:59:01 23.06.2023

## Band12-5MHz-64QAM-23095-25RB#0



20:59:41 23.06.2023

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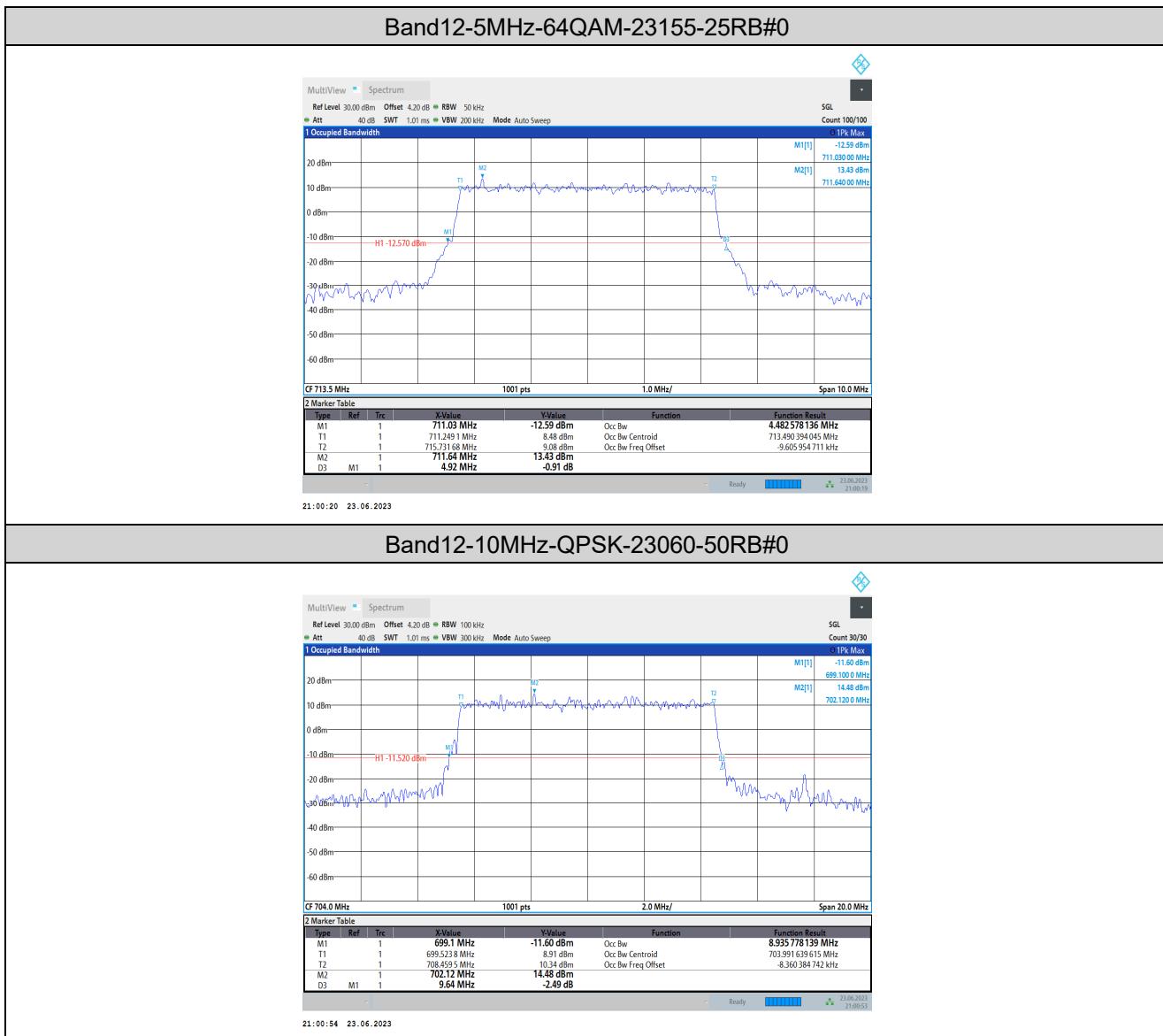


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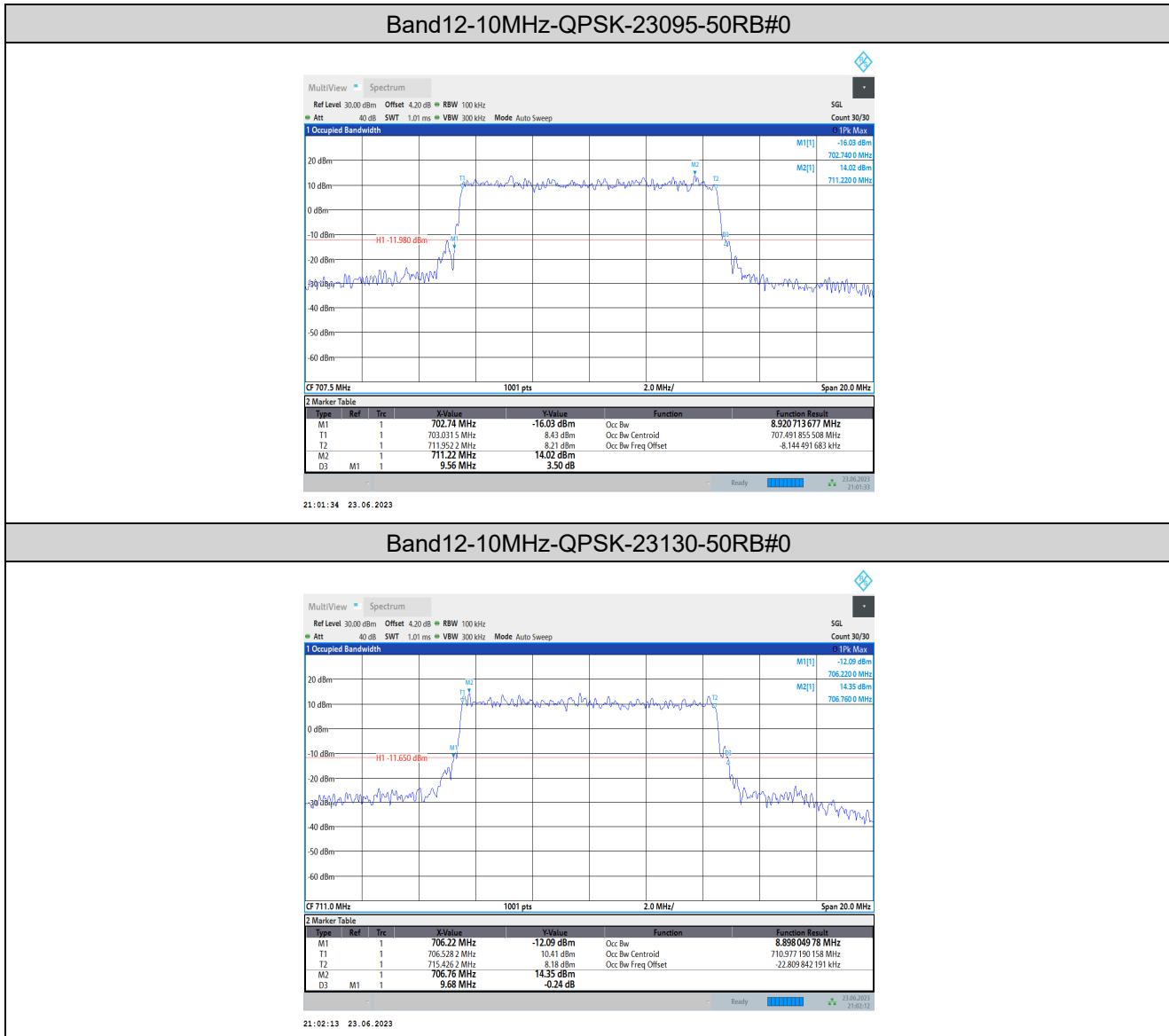


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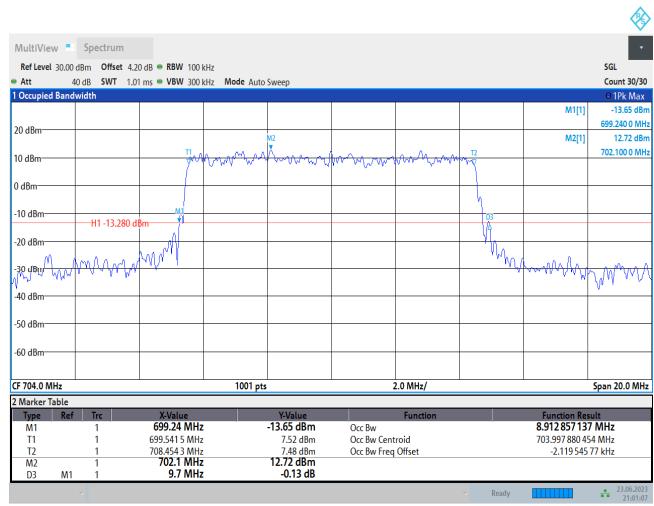
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## Band12-10MHz-16QAM-23060-50RB#0



21:01:07 23.06.2023

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



21:01:47 23.06.2023

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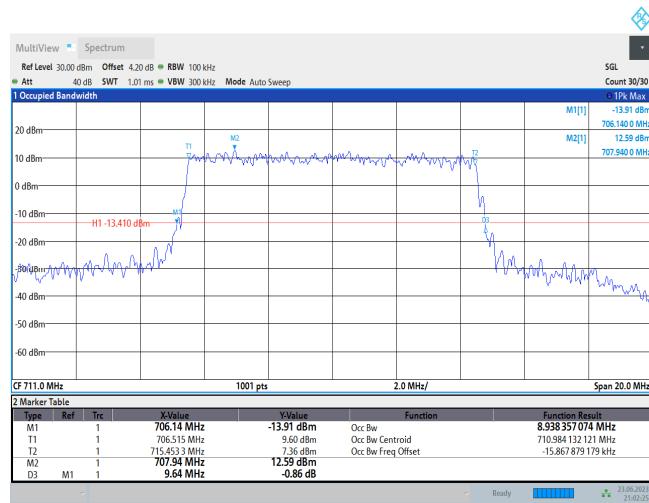
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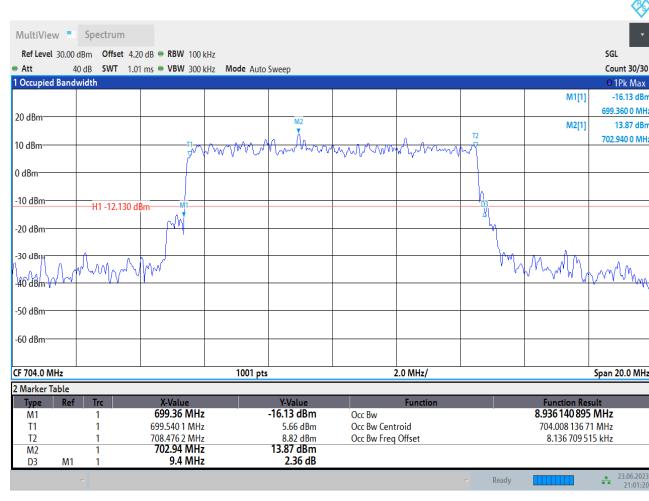
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## Band12-10MHz-16QAM-23130-50RB#0



21:02:26 23.06.2023

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



21:01:21 23.06.2023

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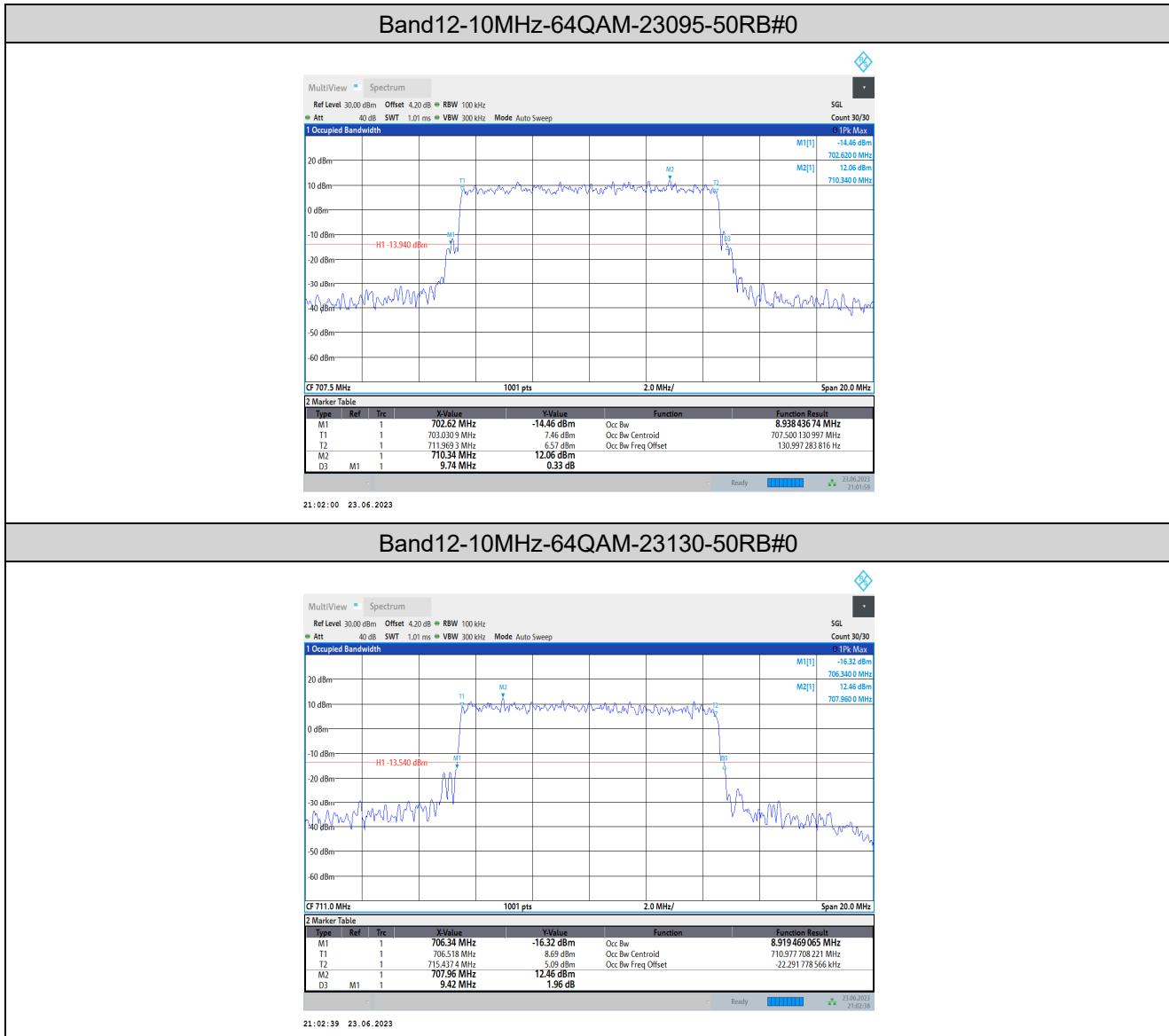


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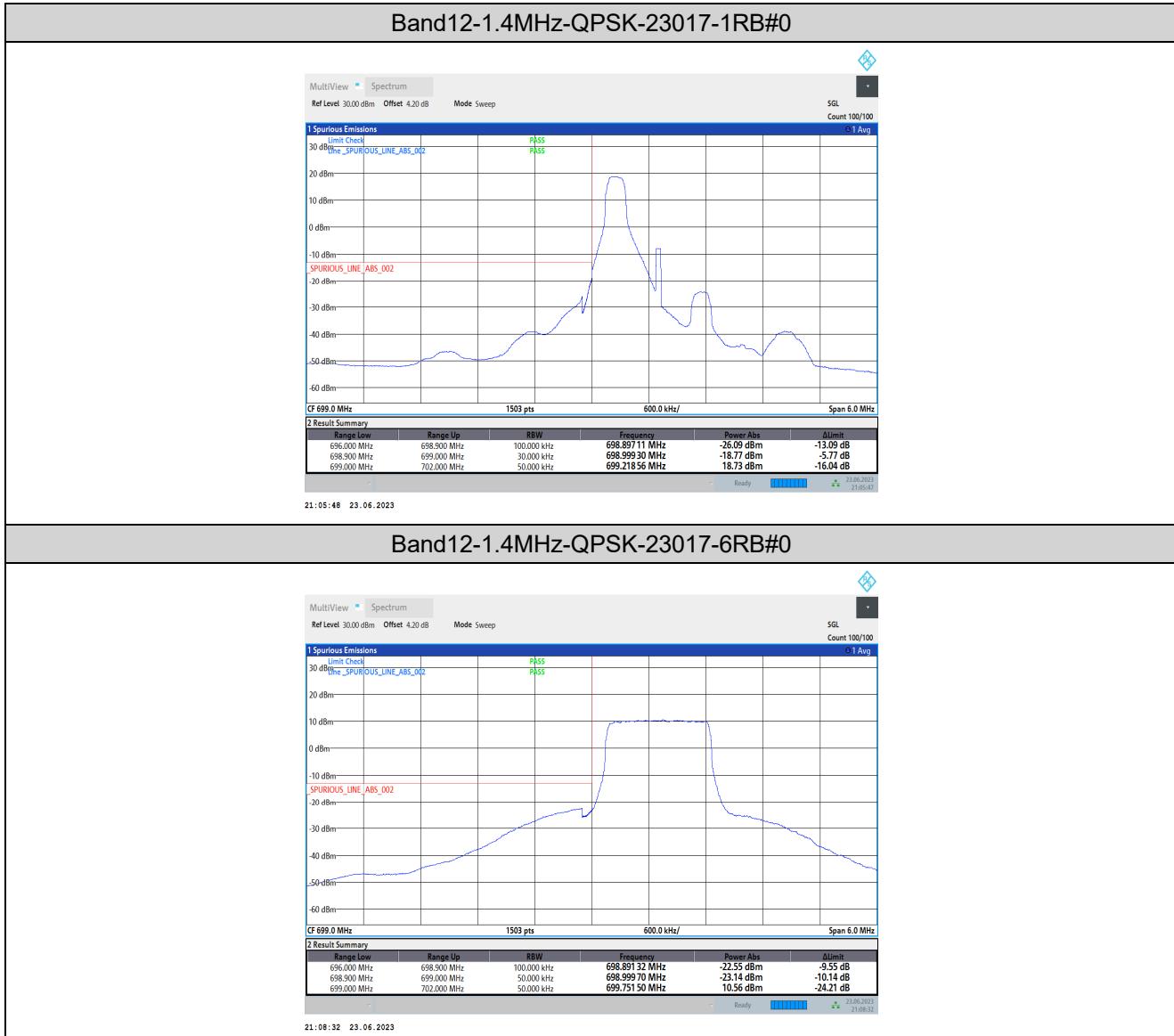
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## Band Edge

### Test Graphs



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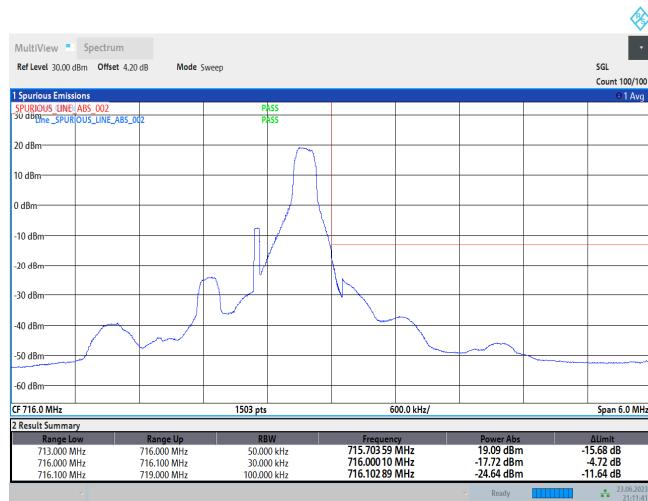


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## Band12-1.4MHz-QPSK-23173-1RB#5



21:11:41 23.06.2023

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



21:14:25 23.06.2023

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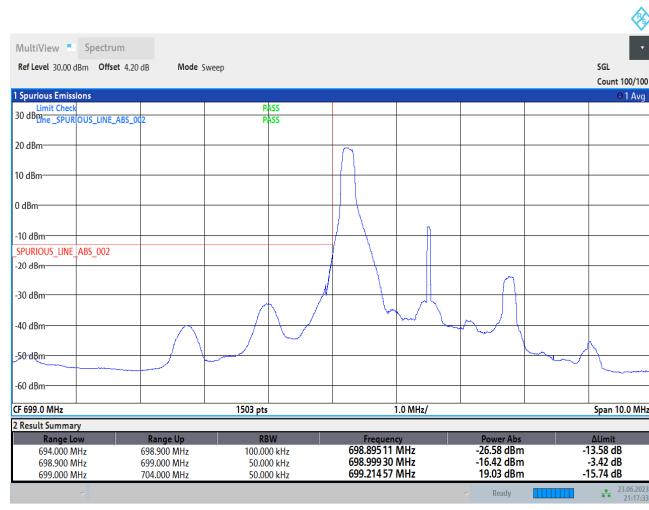


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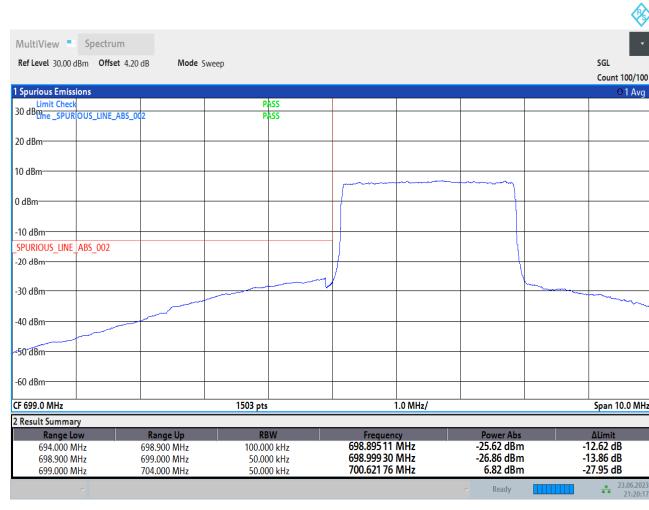
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## Band12-3MHz-QPSK-23025-1RB#0



21:17:34 23.06.2023

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



21:20:18 23.06.2023

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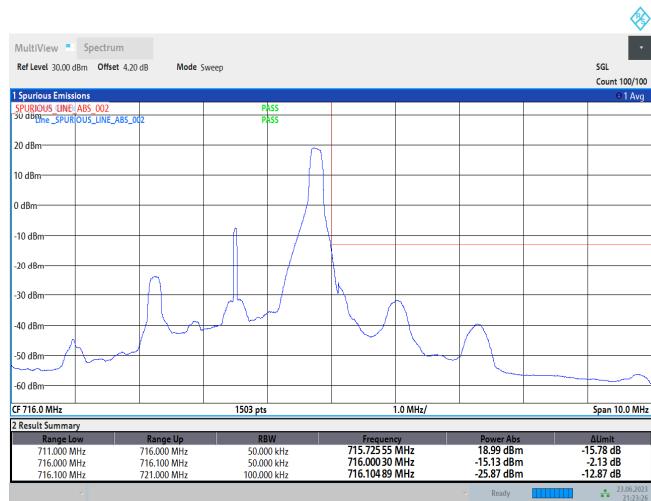
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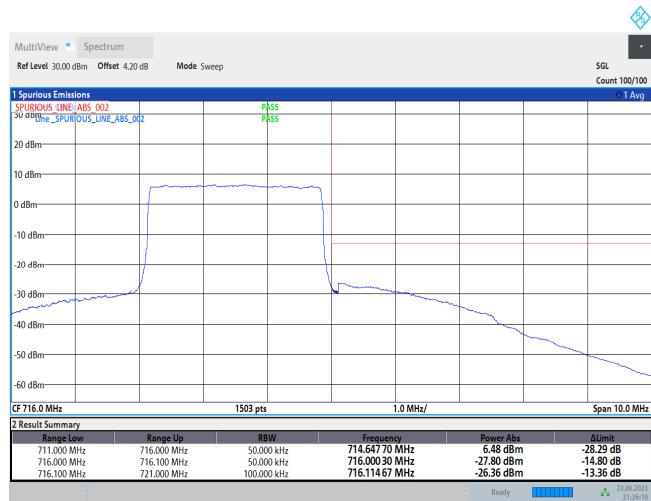
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## Band12-3MHz-QPSK-23165-1RB#14



21:23:26 23.06.2023

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



21:26:11 23.06.2023

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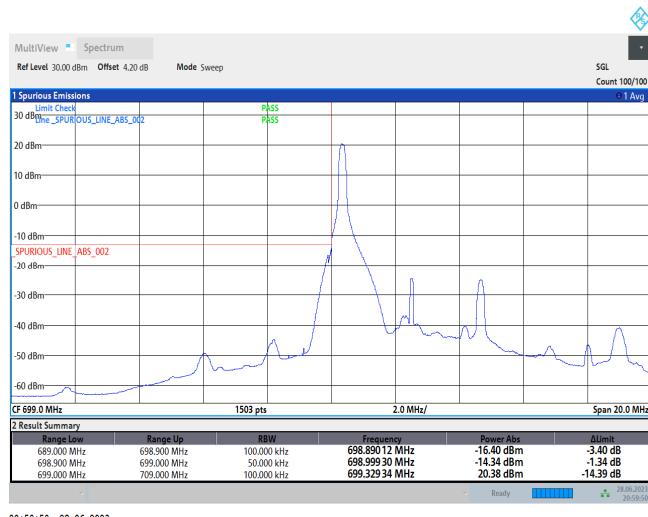


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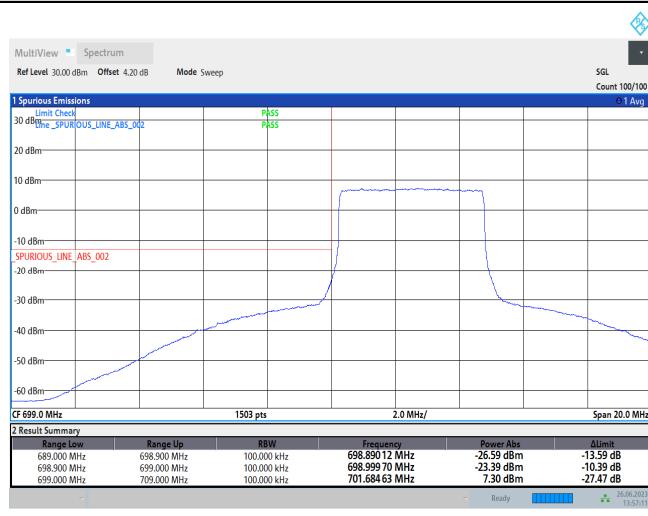
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## Band12-5MHz-QPSK-23035-1RB#0



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



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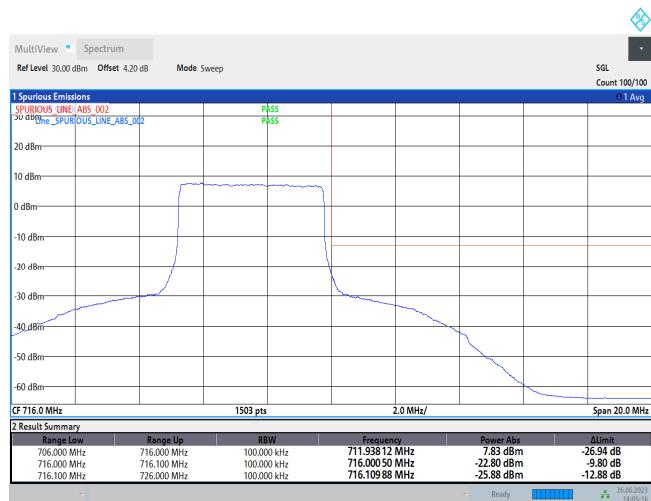
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## Band12-5MHz-QPSK-23155-1RB#24



14:02:32 26.06.2023

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



14:05:17 26.06.2023

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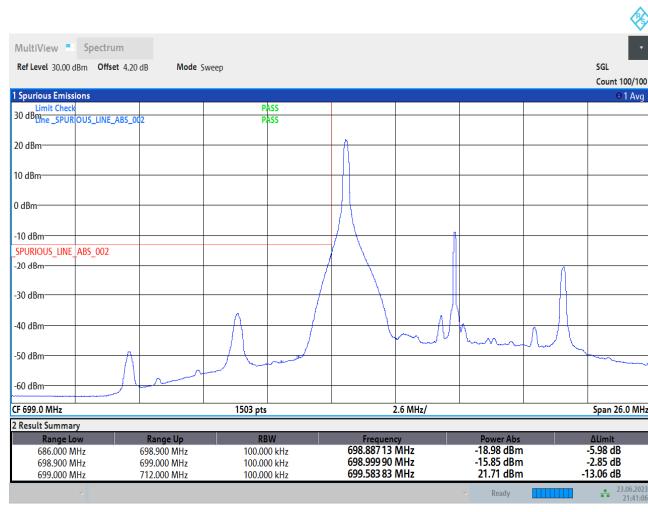


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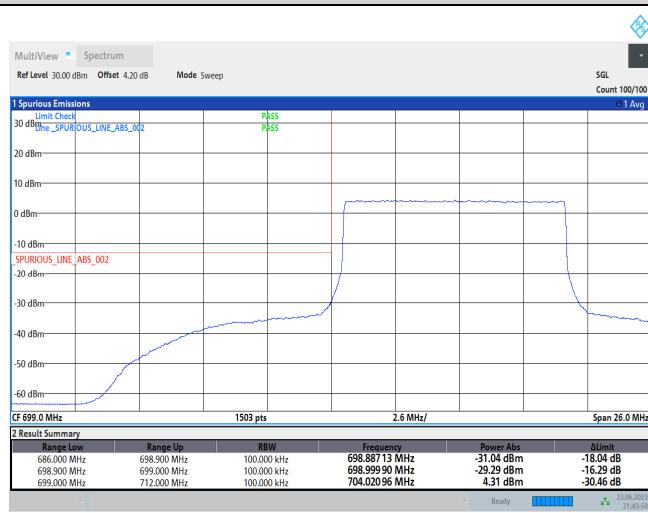
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## Band12-10MHz-QPSK-23060-1RB#0



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



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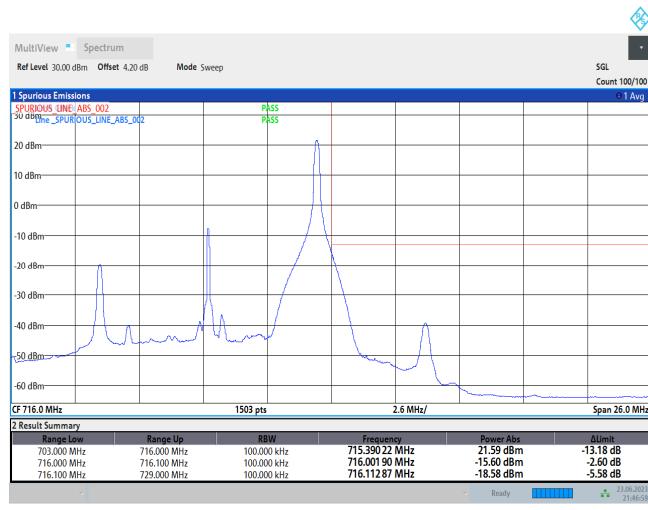


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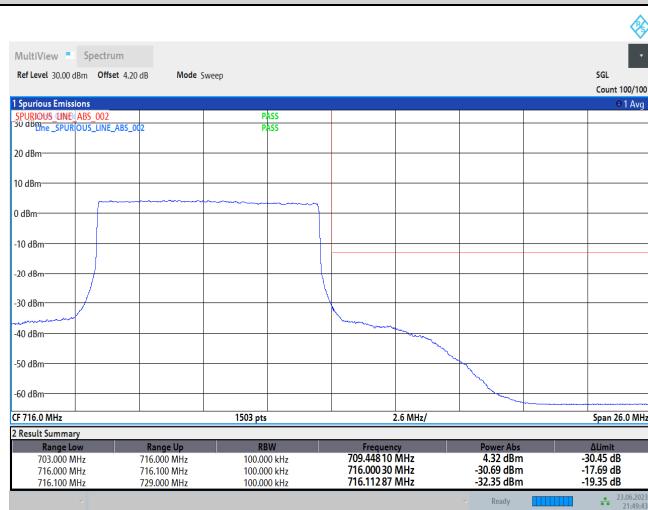
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## Band12-10MHz-QPSK-23130-1RB#49



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



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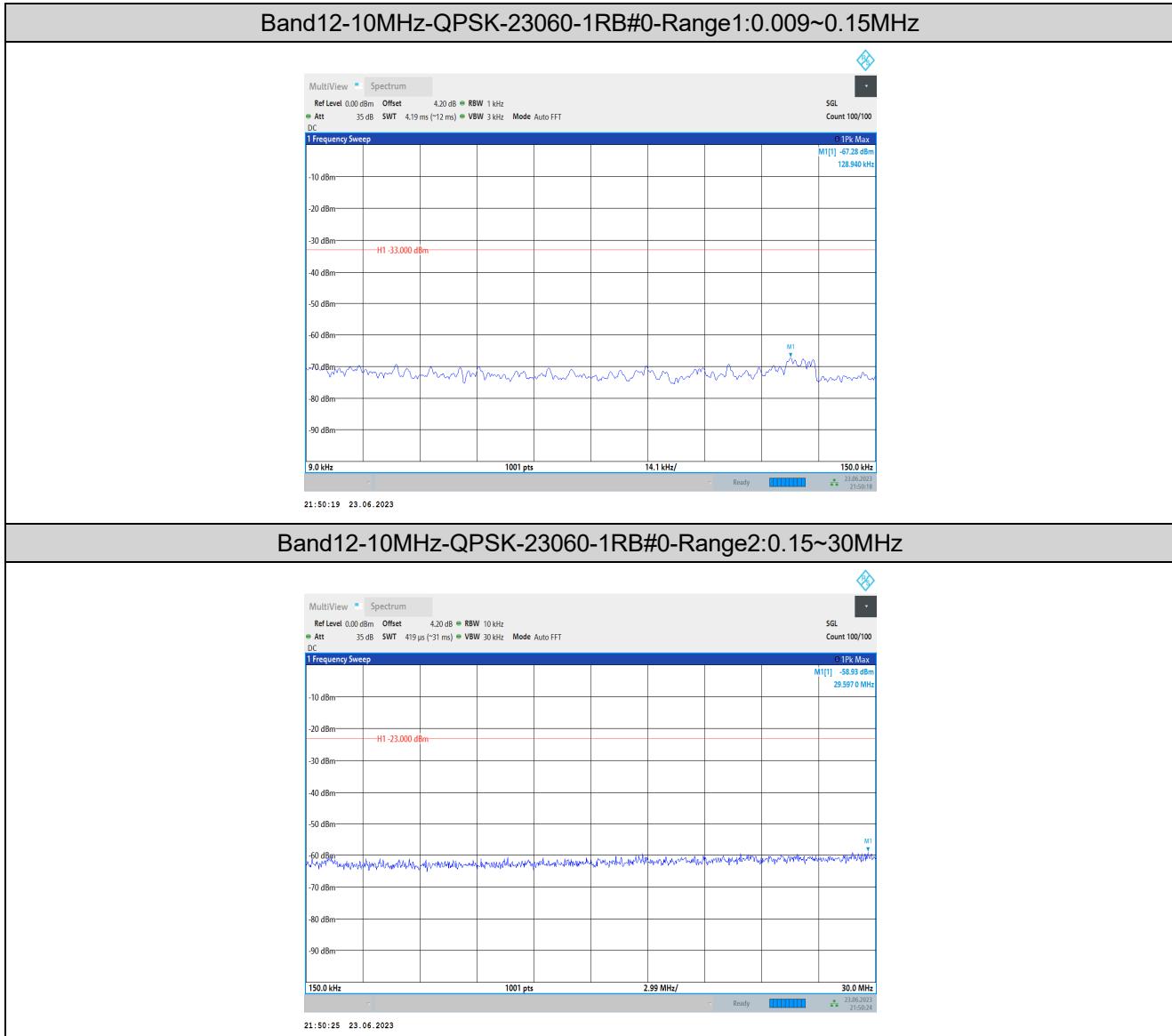
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## Conducted Spurious Emission

### Test Graphs



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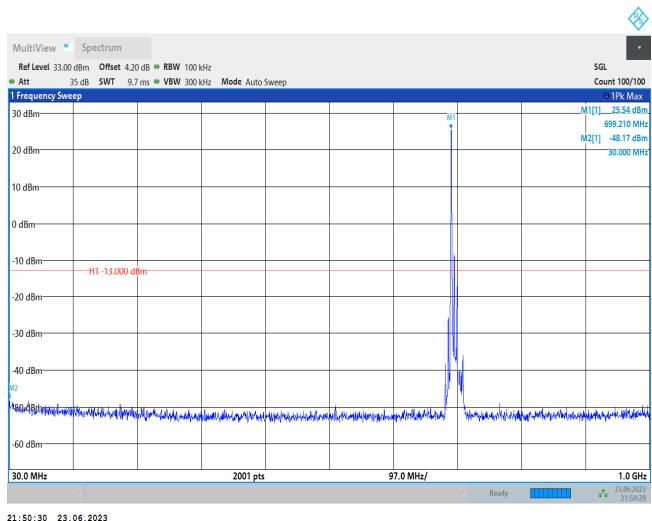
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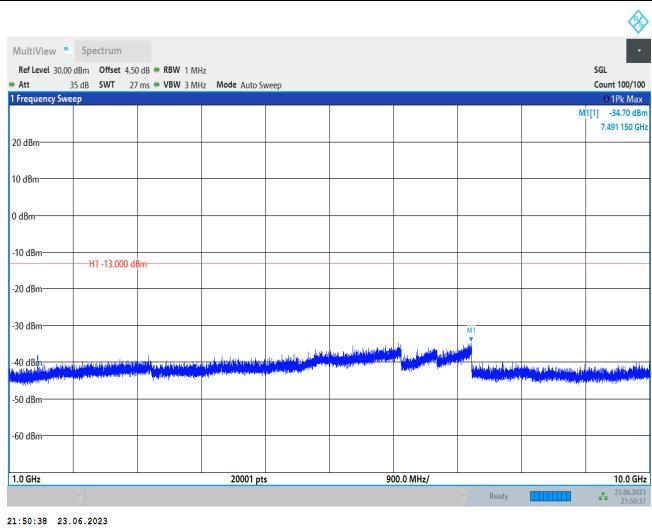
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## Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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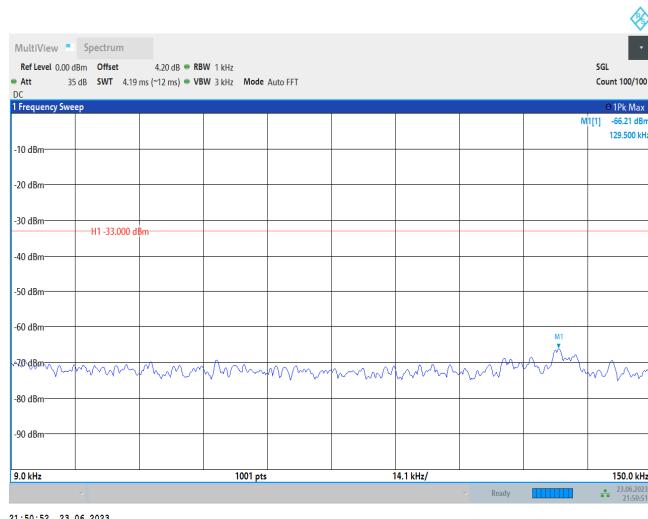


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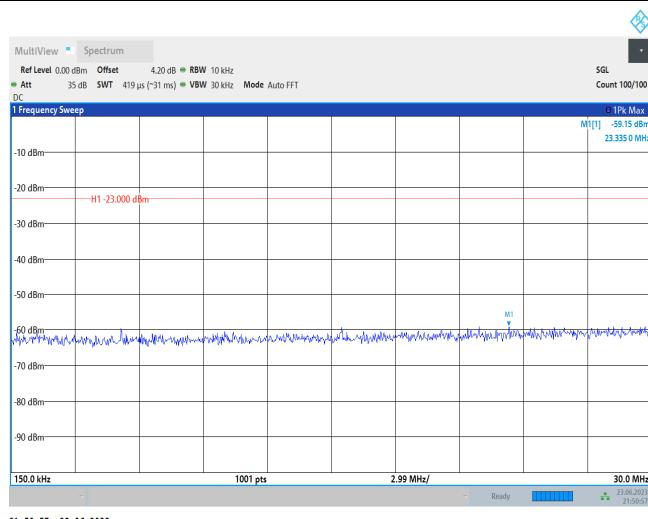
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## Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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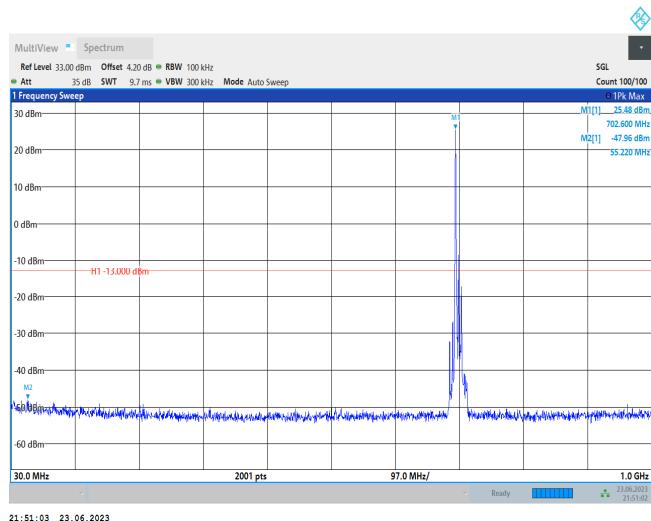


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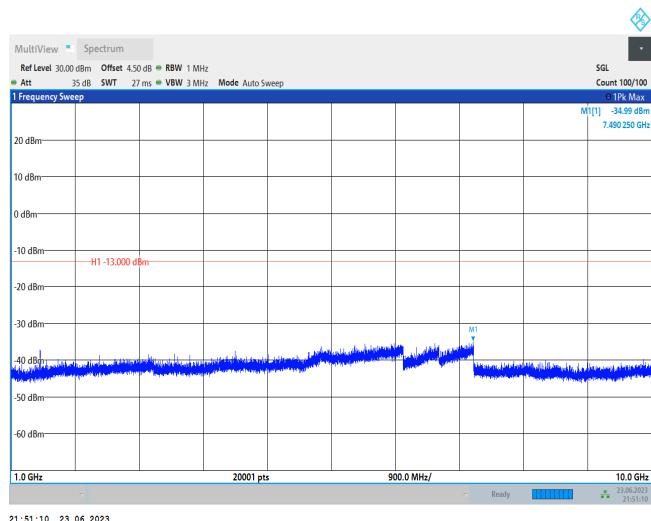
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## Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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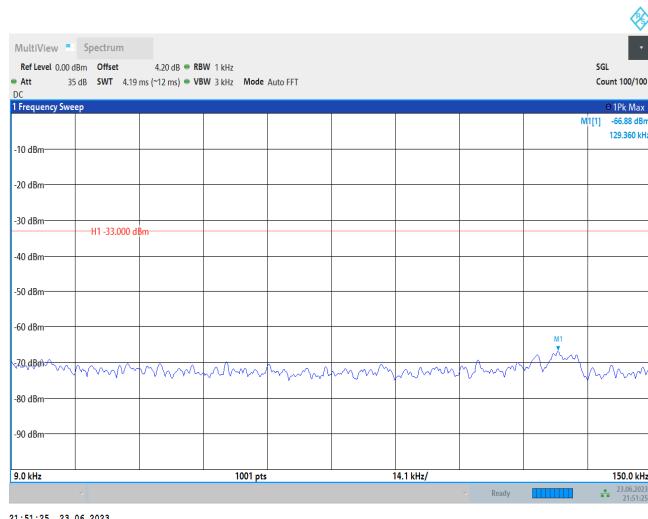


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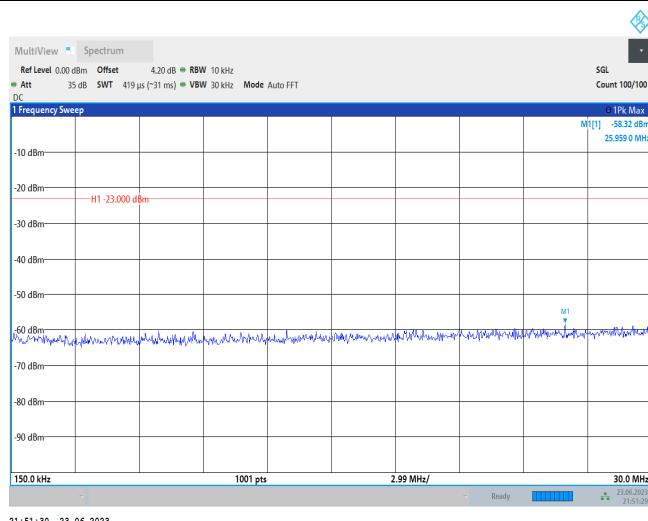
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## Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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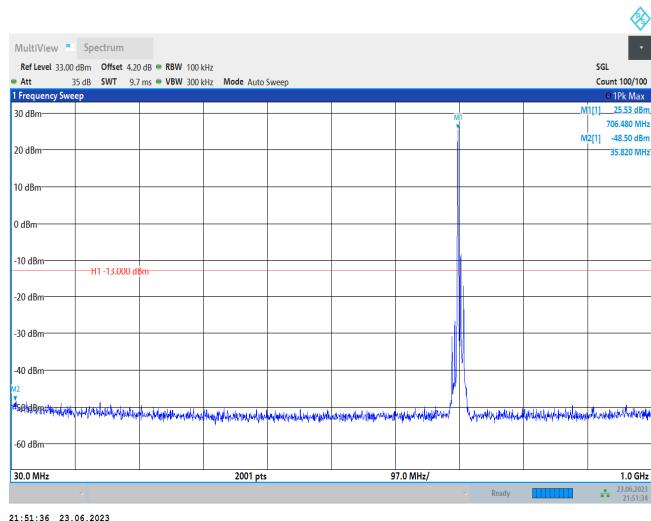


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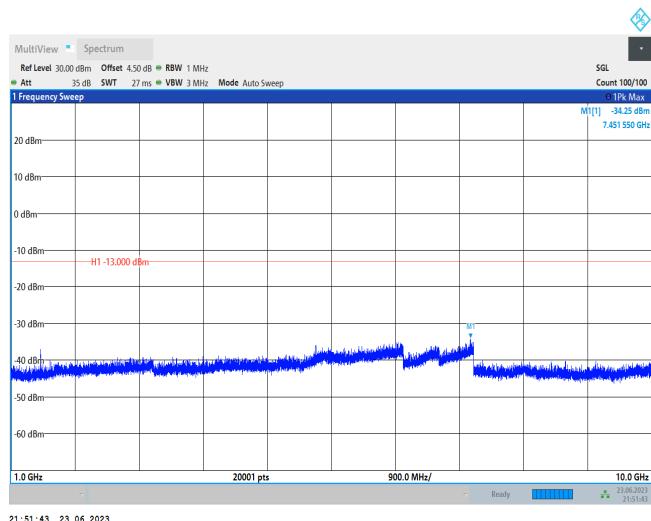
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## Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE band 12\_ TM1\_10MHz

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	46.78	-48.00	25.10	-71.38	-13.00	58.38	126	40	Horizontal
2	2098.7700	43.02	-47.71	26.18	-73.78	-13.00	60.78	258	130	Horizontal
3	2798.3600	42.50	-46.92	27.90	-71.78	-13.00	58.78	148	4	Horizontal
4	3497.9500	42.58	-46.54	28.60	-70.62	-13.00	57.62	175	145	Horizontal
5	4197.5400	41.14	-45.96	29.57	-70.50	-13.00	57.50	126	360	Horizontal
6	4897.1300	41.81	-45.58	31.17	-67.86	-13.00	54.86	233	355	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	45.55	-48.00	25.10	-72.61	-13.00	59.61	177	150	Vertical
2	2098.7700	43.03	-47.71	26.18	-73.77	-13.00	60.77	159	135	Vertical
3	2798.3600	42.78	-46.92	27.90	-71.50	-13.00	58.50	142	357	Vertical
4	3497.9500	42.43	-46.54	28.60	-70.77	-13.00	57.77	165	176	Vertical
5	4197.5400	40.82	-45.96	29.57	-70.82	-13.00	57.82	185	282	Vertical
6	4897.1300	42.02	-45.58	31.17	-67.65	-13.00	54.65	154	121	Vertical

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**Test Band = LTE band 12\_ TM1\_10MHz**

**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	53.80	-48.02	25.10	-64.38	-13.00	51.38	166	54	Horizontal
2	2109.2700	42.85	-47.71	26.21	-73.91	-13.00	60.91	158	360	Horizontal
3	2812.3600	43.30	-46.88	27.93	-70.91	-13.00	57.91	194	305	Horizontal
4	3515.4500	42.65	-46.51	28.62	-70.50	-13.00	57.50	175	332	Horizontal
5	4218.5400	40.65	-45.93	29.63	-70.91	-13.00	57.91	122	360	Horizontal
6	4921.6300	41.60	-45.63	31.23	-68.06	-13.00	55.06	121	332	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	47.17	-48.02	25.10	-71.01	-13.00	58.01	177	122	Vertical
2	2109.2700	42.79	-47.71	26.21	-73.97	-13.00	60.97	156	256	Vertical
3	2812.3600	43.14	-46.88	27.93	-71.07	-13.00	58.07	265	357	Vertical
4	3515.4500	42.01	-46.51	28.62	-71.14	-13.00	58.14	188	42	Vertical
5	4218.5400	41.24	-45.93	29.63	-70.32	-13.00	57.32	149	96	Vertical
6	4921.6300	41.64	-45.63	31.23	-68.02	-13.00	55.02	125	242	Vertical



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**Test Band = LTE band 12\_ TM1\_10MHz**

**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	50.03	-48.04	25.11	-68.17	-13.00	55.17	284	93	Horizontal
2	2119.7700	43.50	-47.70	26.24	-73.23	-13.00	60.23	176	308	Horizontal
3	2826.3600	43.23	-46.83	27.95	-70.90	-13.00	57.90	236	93	Horizontal
4	3532.9500	42.87	-46.47	28.63	-70.23	-13.00	57.23	251	227	Horizontal
5	4239.5400	41.88	-45.89	29.68	-69.59	-13.00	56.59	144	323	Horizontal
6	4946.1300	41.84	-45.69	31.28	-67.82	-13.00	54.82	172	161	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	45.11	-48.04	25.11	-73.09	-13.00	60.09	266	216	Vertical
2	2119.7700	43.20	-47.70	26.24	-73.53	-13.00	60.53	149	0	Vertical
3	2826.3600	42.83	-46.83	27.95	-71.30	-13.00	58.30	186	357	Vertical
4	3532.9500	41.84	-46.47	28.63	-71.26	-13.00	58.26	254	53	Vertical
5	4239.5400	41.46	-45.89	29.68	-70.01	-13.00	57.01	172	0	Vertical
6	4946.1300	41.71	-45.69	31.28	-67.95	-13.00	54.95	145	67	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	-11.90	-0.016820	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-2.30	-0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-5.70	-0.008057	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.10	-0.010035	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.70	-0.006643	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.70	-0.009470	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-8.80	-0.012438	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.30	-0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-9.40	-0.013286	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-7.20	-0.010177	PASS

---End of Attachment---



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