

Appendix B.7

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data for

SEWM2307000261RG01

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.23	15.38	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	15.29	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.24	15.39	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.25	14.40	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.37	14.52	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.24	14.39	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.35	14.50	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.37	13.52	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.37	13.52	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.32	13.47	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.44	13.59	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.40	12.55	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	18.67	10.82	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	18.64	10.79	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	18.73	10.88	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	18.70	10.85	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.25	15.40	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.22	15.37	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.11	15.26	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.30	14.45	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.31	14.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.35	14.50	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.34	14.49	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.50	13.65	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.33	13.48	34.77	PASS



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Band12	1.4MHz	64QAM	23095	1RB#2	21.42	13.57	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.43	13.58	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.50	12.65	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	18.84	10.99	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	18.77	10.92	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	18.81	10.96	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	18.53	10.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.27	15.42	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.21	15.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.28	15.43	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.21	14.36	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.29	14.44	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.42	14.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.34	14.49	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.49	13.64	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.53	13.68	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.32	13.47	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.44	13.59	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.45	12.60	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	18.78	10.93	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	18.72	10.87	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	18.90	11.05	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	18.93	11.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.46	15.61	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.30	15.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.34	15.49	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.42	14.57	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.53	14.68	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.55	14.70	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.55	14.70	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.56	13.71	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.62	13.77	34.77	PASS



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Band12	3MHz	64QAM	23025	1RB#8	21.62	13.77	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.70	13.85	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.74	12.89	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	18.66	10.81	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	18.62	10.77	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	18.71	10.86	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	18.74	10.89	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.38	15.53	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.37	15.52	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.41	15.56	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.46	14.61	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.57	14.72	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.49	14.64	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.60	14.75	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.65	13.80	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.55	13.70	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.66	13.81	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.59	13.74	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.65	12.80	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	18.80	10.95	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	18.75	10.90	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	18.75	10.90	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	18.62	10.77	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.50	15.65	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.44	15.59	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.36	15.51	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.43	14.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.45	14.60	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.59	14.74	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.50	14.65	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.70	13.85	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.68	13.83	34.77	PASS



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Band12	3MHz	64QAM	23165	1RB#8	21.52	13.67	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.57	13.72	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.65	12.80	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	18.83	10.98	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	18.74	10.89	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	18.93	11.08	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	18.90	11.05	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.48	15.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.35	15.50	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.33	15.48	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.44	14.59	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.47	14.62	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.52	14.67	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.51	14.66	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.58	13.73	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.59	13.74	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.62	13.77	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.61	13.76	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.77	12.92	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	18.74	10.89	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	18.56	10.71	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	18.79	10.94	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	18.78	10.93	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.40	15.55	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.47	15.62	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.37	15.52	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.50	14.65	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.60	14.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.46	14.61	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.61	14.76	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.62	13.77	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.55	13.70	34.77	PASS



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Band12	5MHz	64QAM	23095	1RB#12	21.67	13.82	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.53	13.68	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.67	12.82	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	18.84	10.99	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	18.74	10.89	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	18.82	10.97	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	18.62	10.77	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.49	15.64	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.39	15.54	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.48	15.63	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.41	14.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.55	14.70	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.62	14.77	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.45	14.60	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.64	13.79	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.66	13.81	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.52	13.67	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.63	13.78	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.75	12.90	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	18.78	10.93	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	18.75	10.90	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	18.88	11.03	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	18.86	11.01	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.42	15.57	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.39	15.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.33	15.48	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.42	14.57	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.48	14.63	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.56	14.71	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.57	14.72	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.54	13.69	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.55	13.70	34.77	PASS



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Band12	10MHz	64QAM	23060	1RB#24	21.60	13.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.71	13.86	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.77	12.92	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	18.69	10.84	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	18.54	10.69	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	18.75	10.90	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	18.69	10.84	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.55	15.70	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.39	15.54	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.37	15.52	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.53	14.68	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.59	14.74	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.52	14.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.54	14.69	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.67	13.82	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.62	13.77	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.61	13.76	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.57	13.72	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.66	12.81	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	18.83	10.98	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	18.76	10.91	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	18.79	10.94	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	18.55	10.70	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.46	15.61	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.33	15.48	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.43	15.58	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.43	14.58	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.51	14.66	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.56	14.71	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.55	14.70	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.62	13.77	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.68	13.83	34.77	PASS



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Report No.: SEWM2309000395RG01

Rev.: 01

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Band12	10MHz	64QAM	23130	1RB#24	21.58	13.73	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.61	13.76	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.67	12.82	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	18.75	10.90	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	18.70	10.85	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	18.91	11.06	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	18.95	11.10	34.77	PASS



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Effective (Isotropic) Radiated Power Output Data for

SEWM2309000395RG01

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	10MHz	QPSK	23095	1RB#0	23.46	15.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.24	15.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.23	15.38	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.39	14.54	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

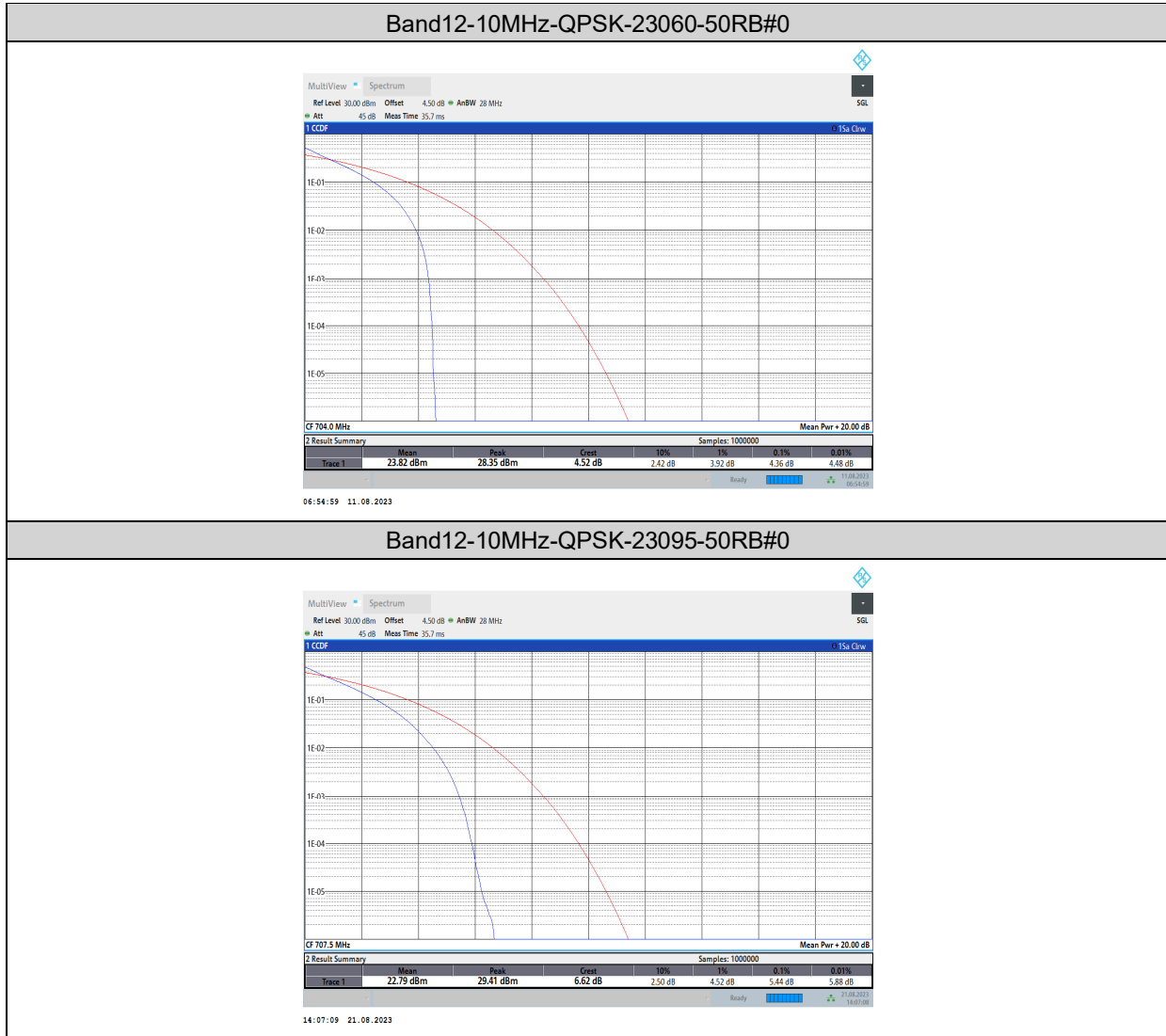
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.44	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.46	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.20	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.40	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.60	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	5.94	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.18	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.60	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.60	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.62	13	PASS



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Test Graphs

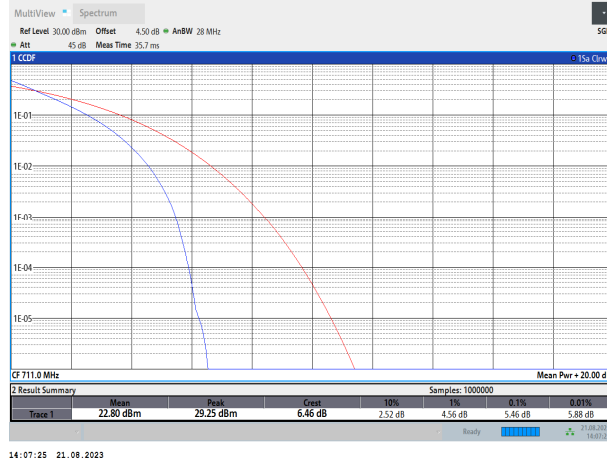


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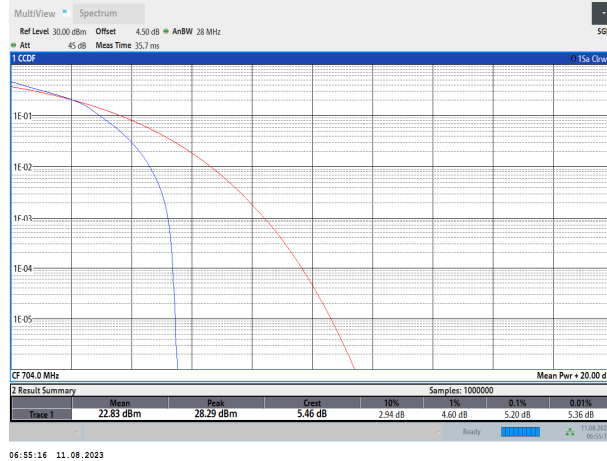
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Band12-10MHz-QPSK-23130-50RB#0



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

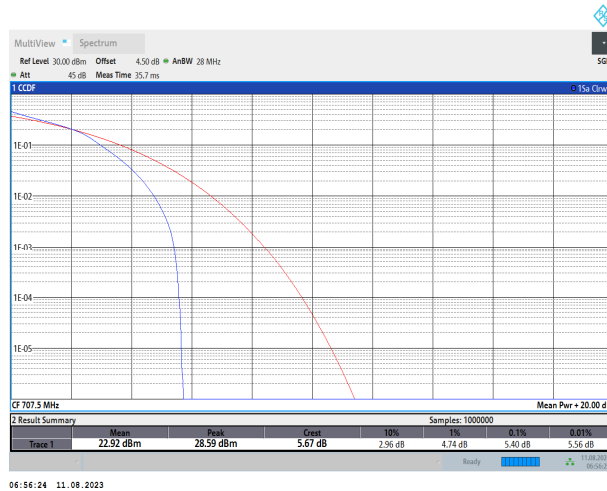


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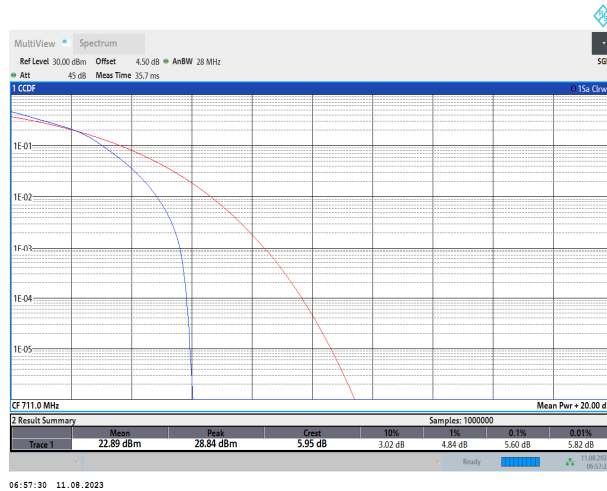
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Band12-10MHz-16QAM-23095-50RB#0



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

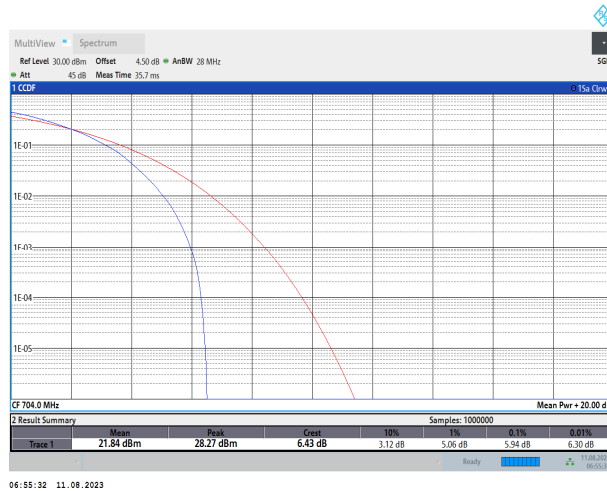


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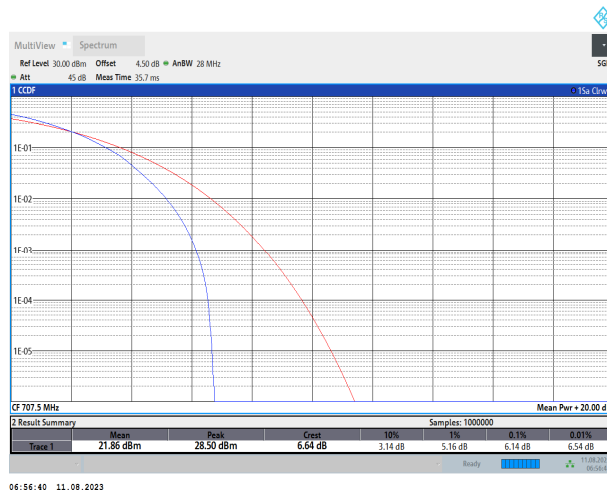
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Band12-10MHz-64QAM-23060-50RB#0



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

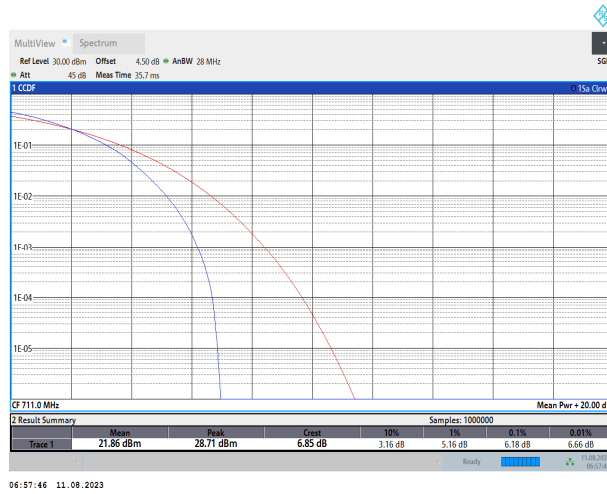


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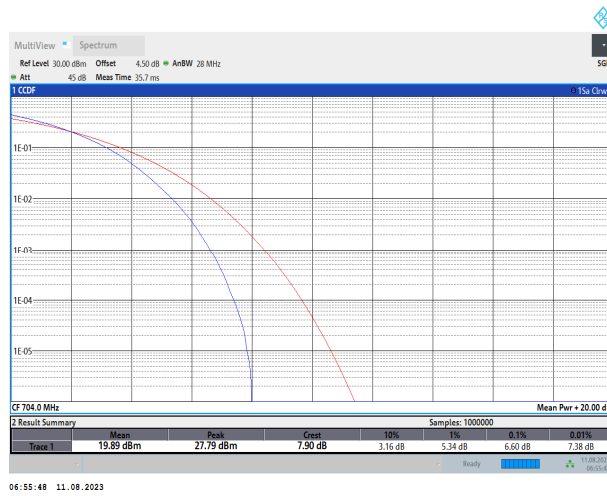
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Band12-10MHz-64QAM-23130-50RB#0



Band12-10MHz-256QAM-23060-50RB#0

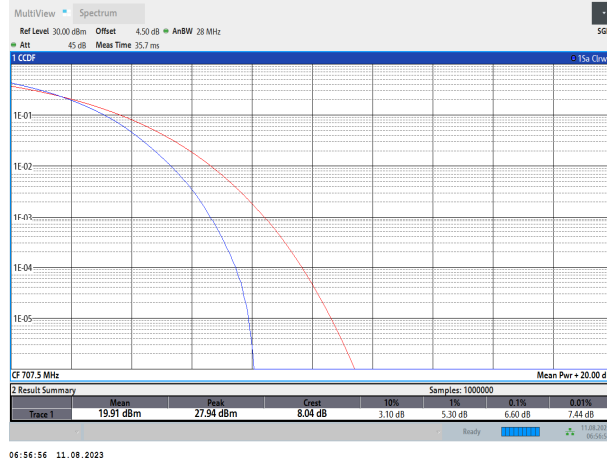


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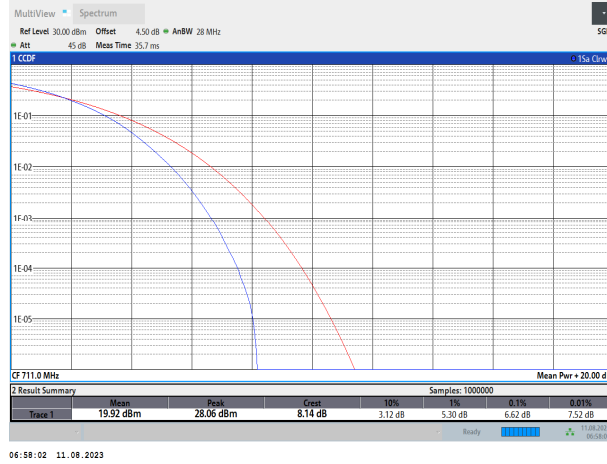
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Band12-10MHz-256QAM-23095-50RB#0



Band12-10MHz-256QAM-23130-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

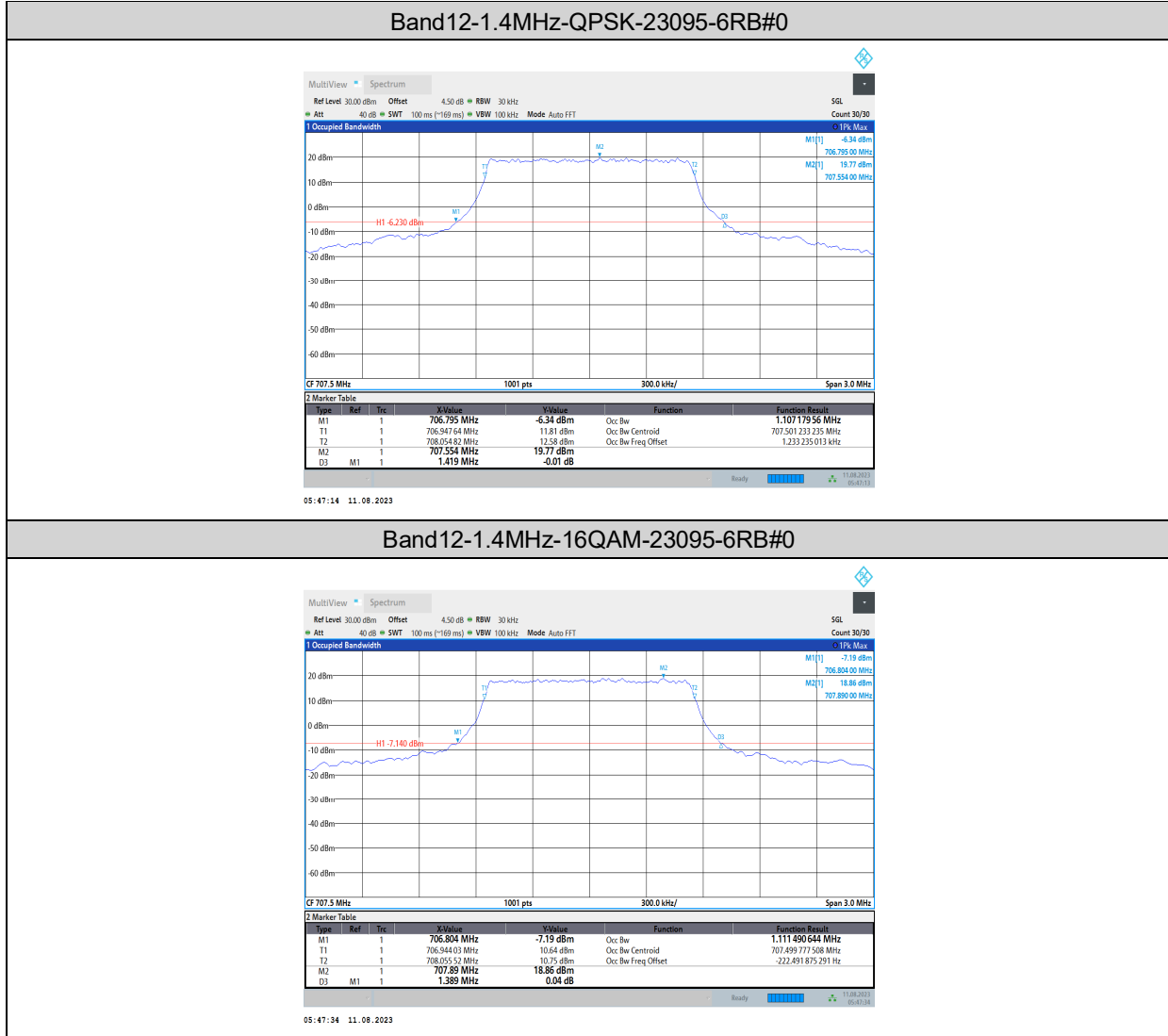
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.107	1.42	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.111	1.39	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.11	1.47	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.104	1.38	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.699	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	3.05	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.701	3.05	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.698	3.06	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.474	5.06	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.475	5.09	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.475	5.07	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.477	5.05	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.94	9.90	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.938	9.90	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.936	9.84	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.935	9.76	PASS



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Test Graphs

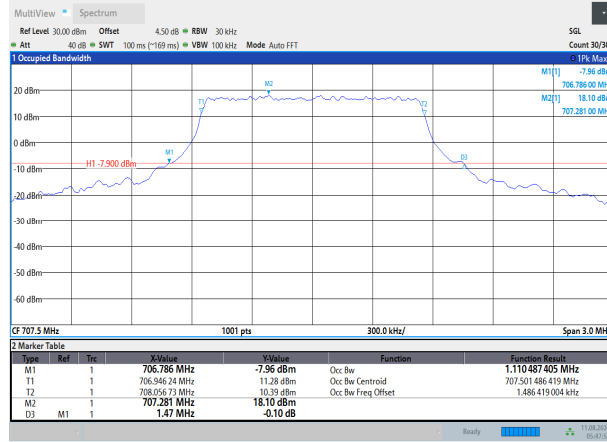


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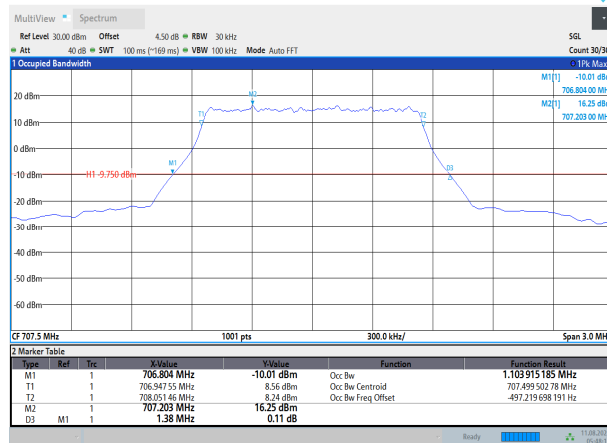
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Band12-1.4MHz-64QAM-23095-6RB#0



05:47:54 11.08.2023

Band12-1.4MHz-256QAM-23095-6RB#0



05:48:14 11.08.2023

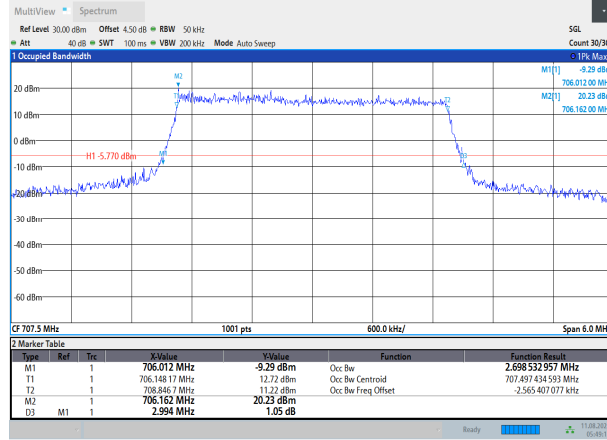


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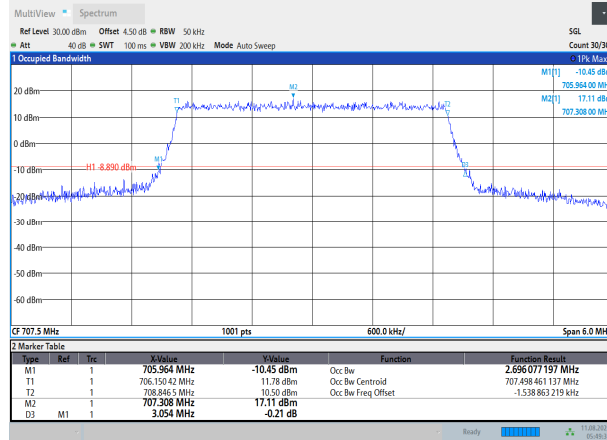
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Band12-3MHz-QPSK-23095-15RB#0



05:49:13 11.08.2023

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



05:49:32 11.08.2023

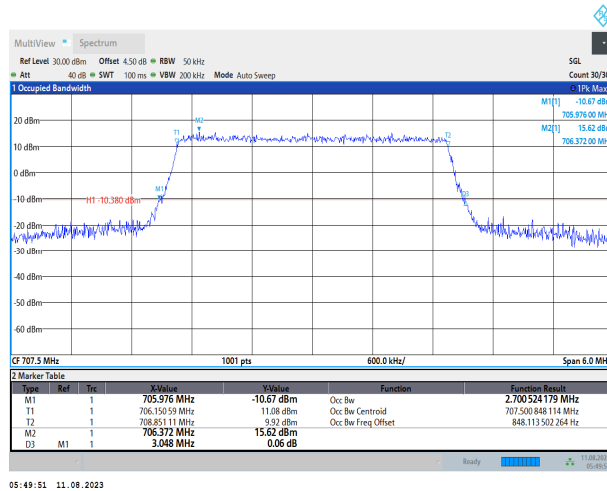


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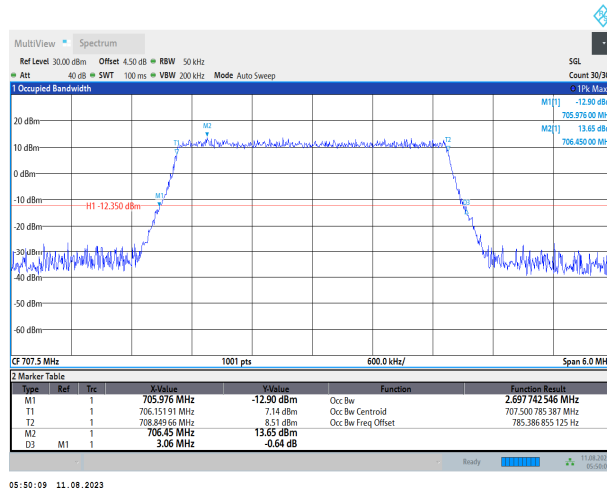
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Band12-3MHz-64QAM-23095-15RB#0



Band12-3MHz-256QAM-23095-15RB#0

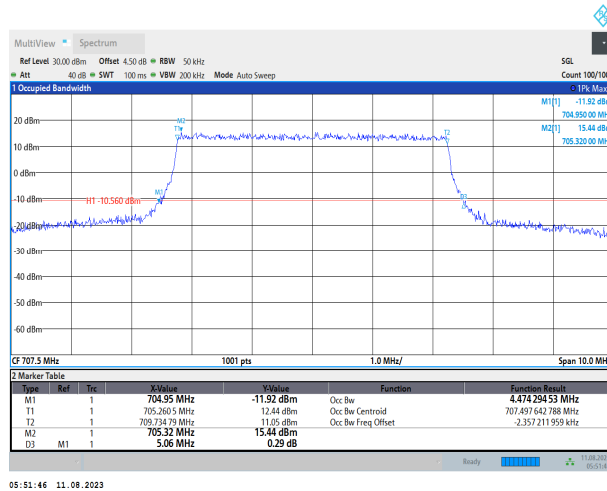


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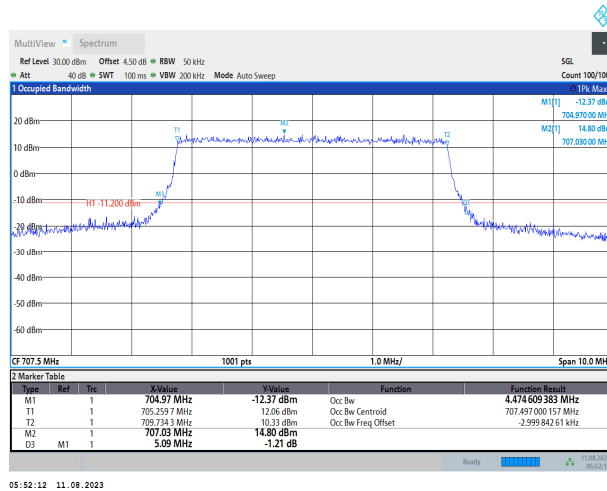
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Band12-5MHz-QPSK-23095-25RB#0



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

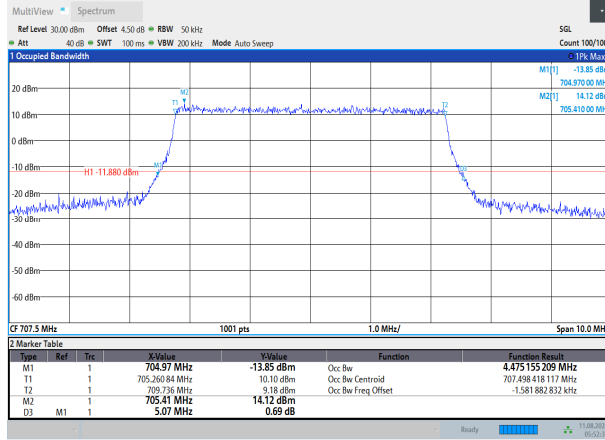


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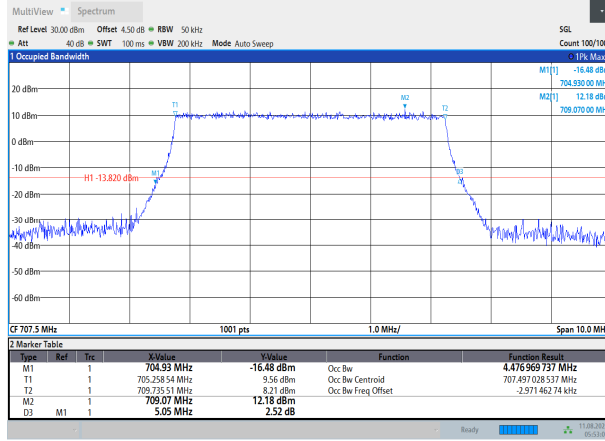
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Band12-5MHz-64QAM-23095-25RB#0



05:52:57 11.08.2023

Band12-5MHz-256QAM-23095-25RB#0



05:53:03 11.08.2023

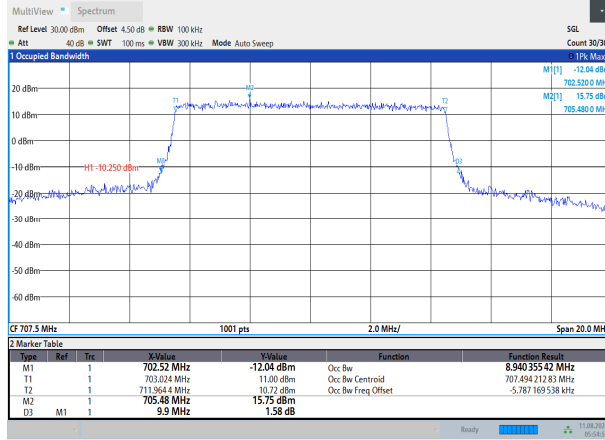


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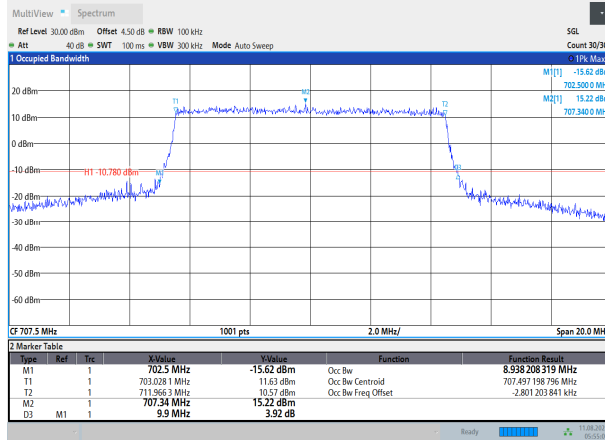
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Band12-10MHz-QPSK-23095-50RB#0



05:54:50 11.08.2023

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



05:55:09 11.08.2023

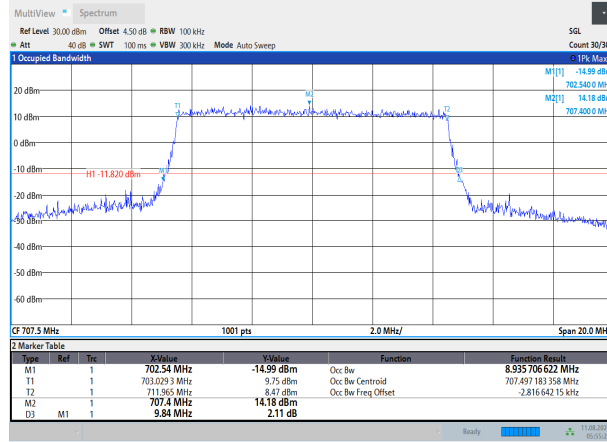


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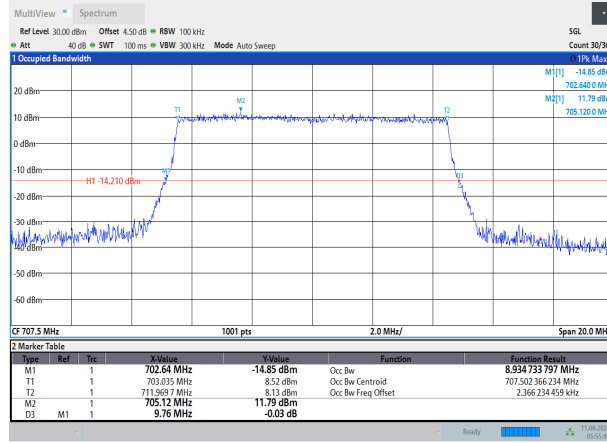
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Band12-10MHz-64QAM-23095-50RB#0



05:55:27 11.08.2023

Band12-10MHz-256QAM-23095-50RB#0



05:55:46 11.08.2023



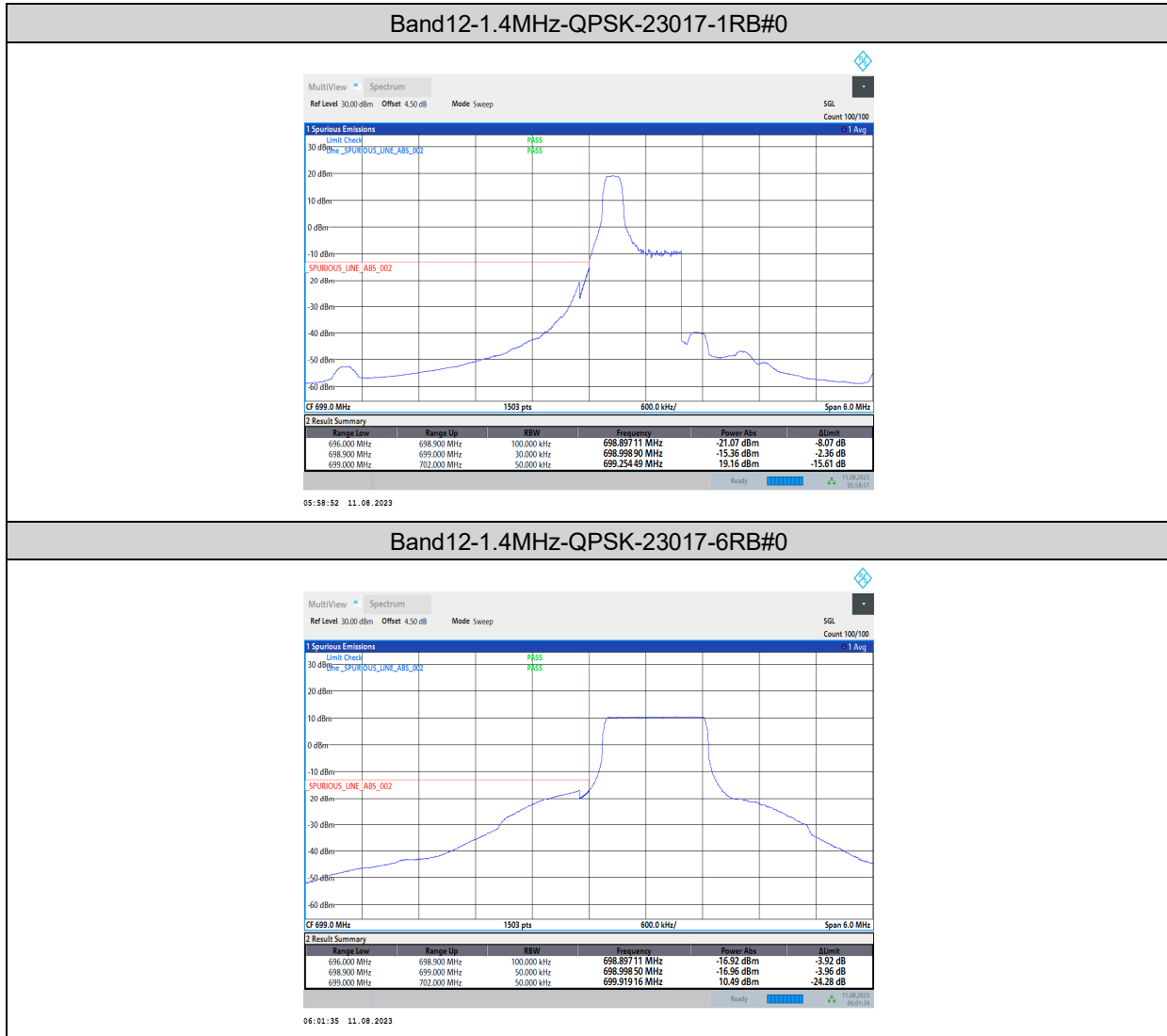
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Band Edge

Test Graphs

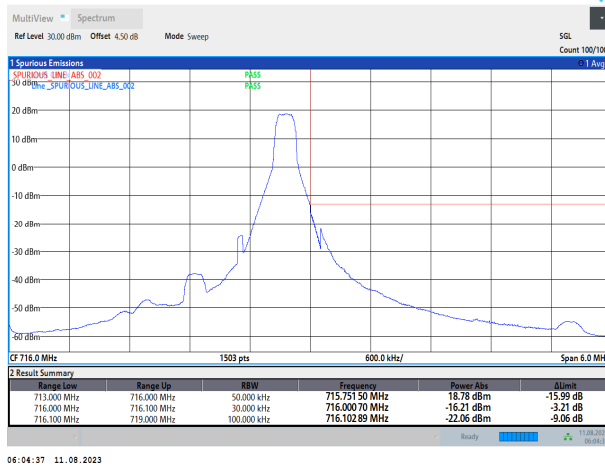


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Band12-1.4MHz-QPSK-23173-1RB#5



06:04:57 11.08.2023

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



06:07:20 11.08.2023

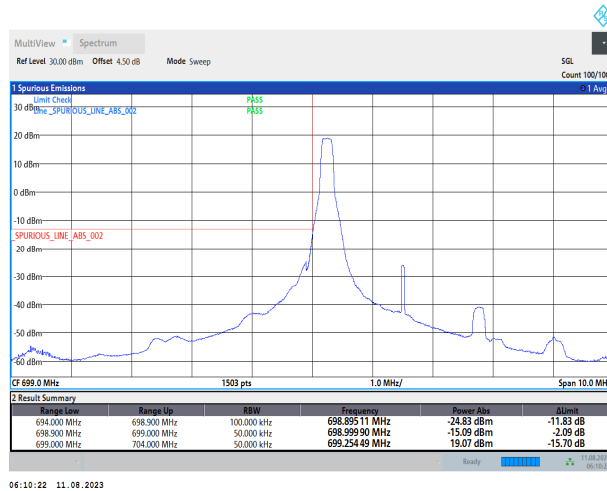


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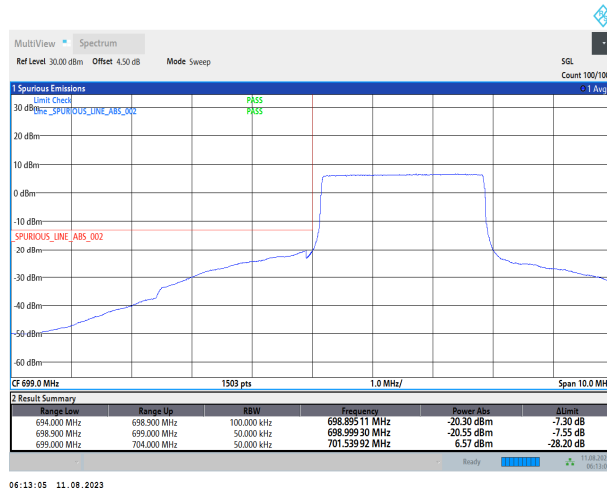
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Band12-3MHz-QPSK-23025-1RB#0



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

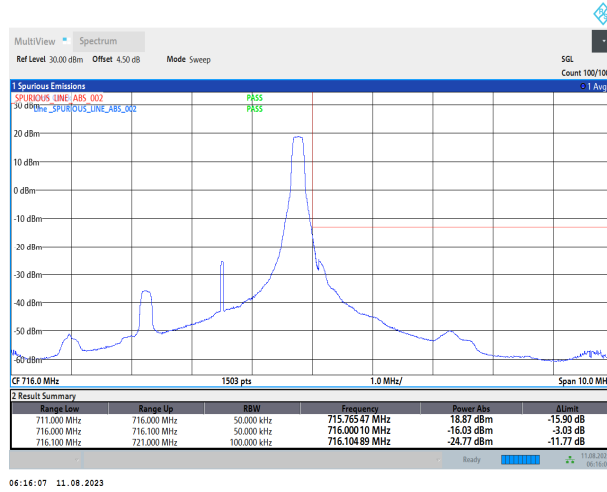


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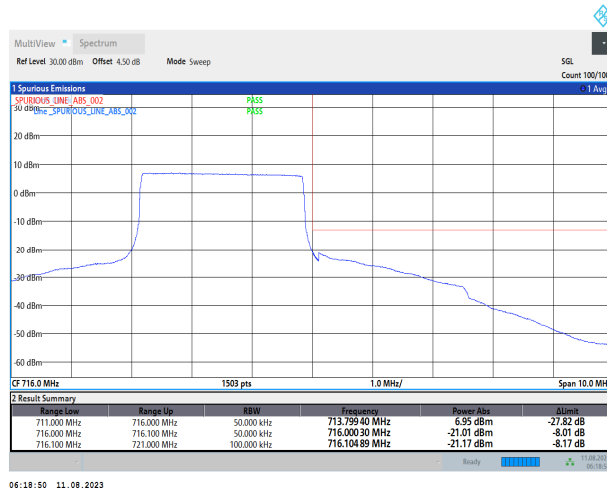
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Band12-3MHz-QPSK-23165-1RB#14



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

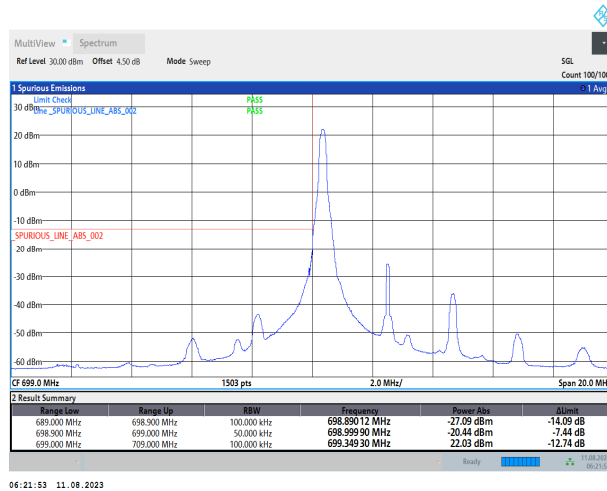


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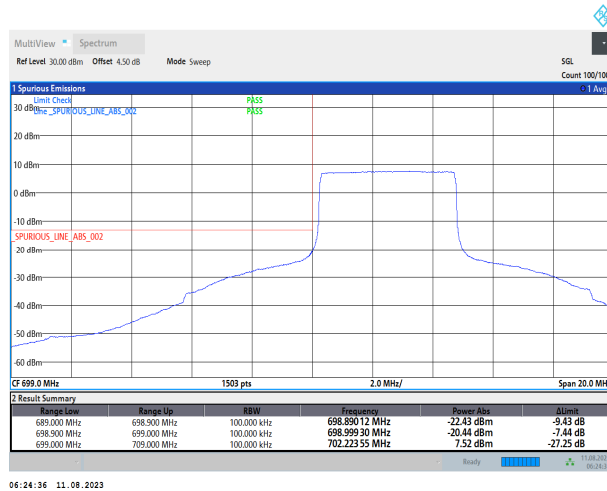
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Band12-5MHz-QPSK-23035-1RB#0



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

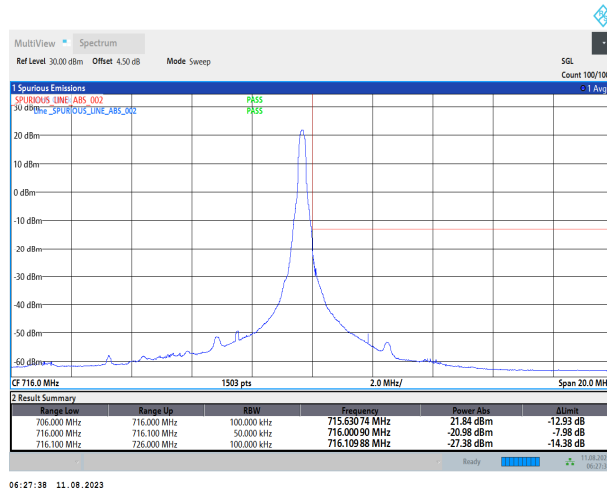


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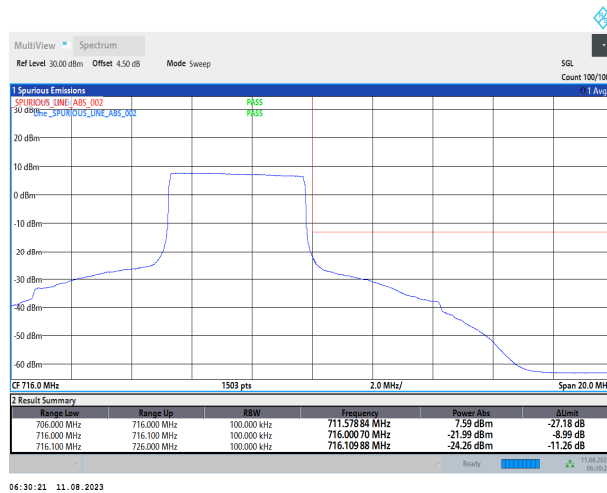
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Band12-5MHz-QPSK-23155-1RB#24



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

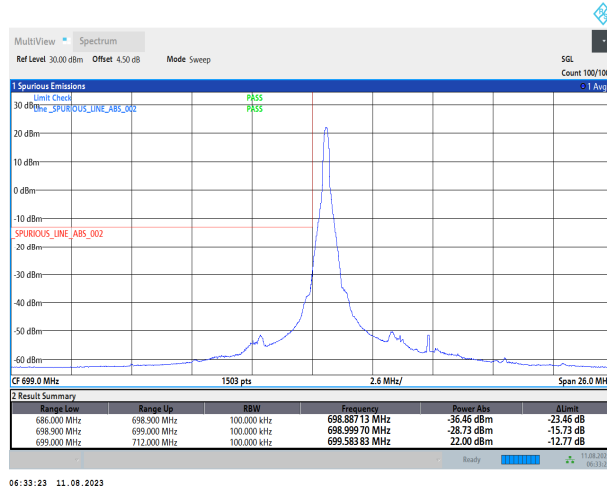


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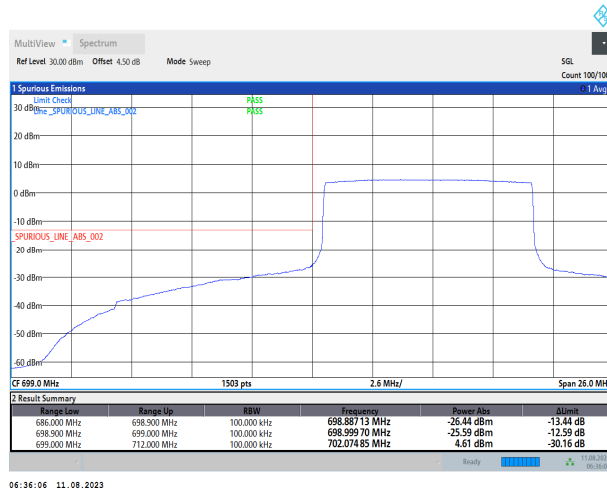
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Band12-10MHz-QPSK-23060-1RB#0



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

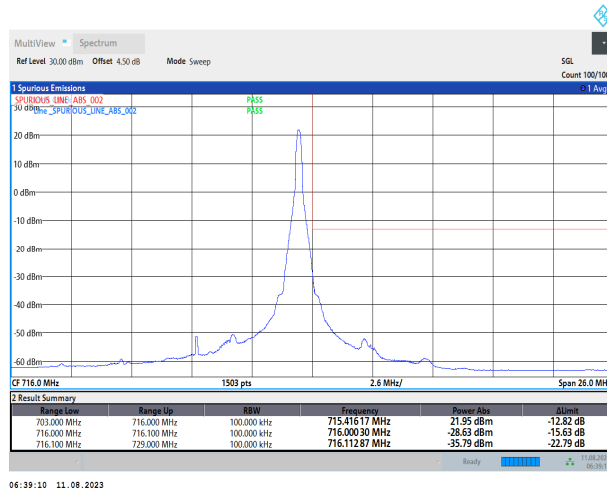


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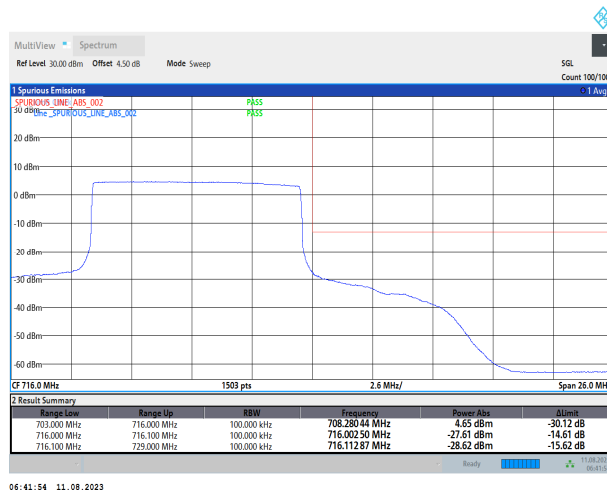
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Band12-10MHz-QPSK-23130-1RB#49



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



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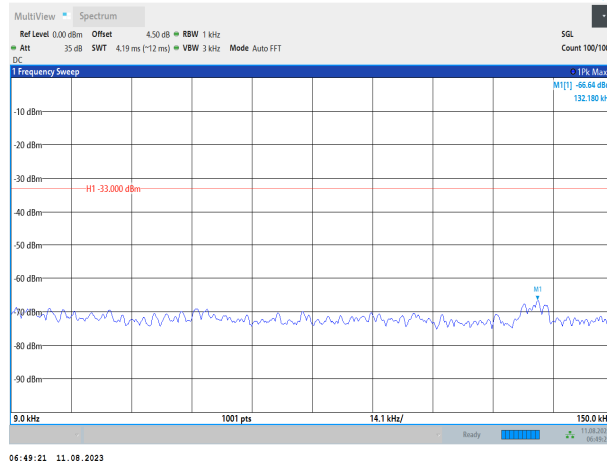
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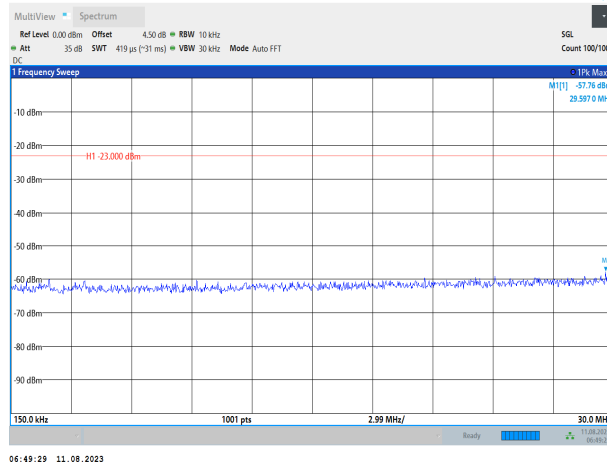
Conducted Spurious Emission

Test Graphs

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



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

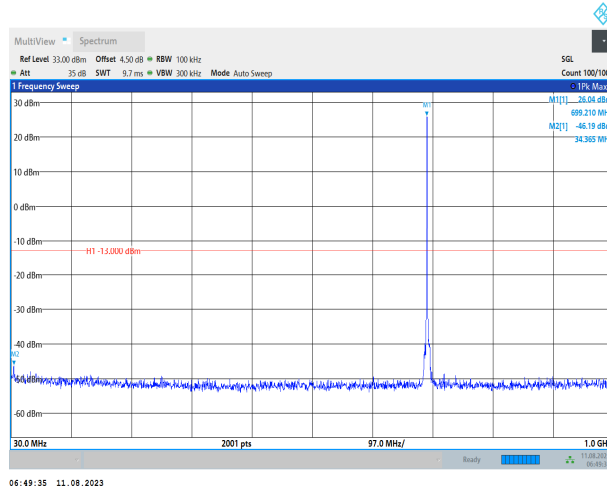


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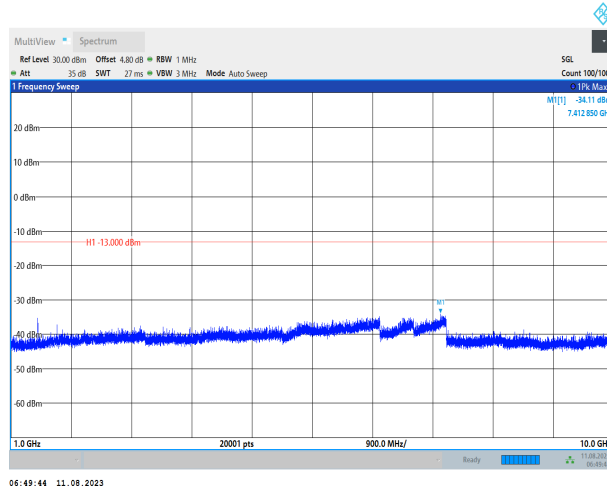
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

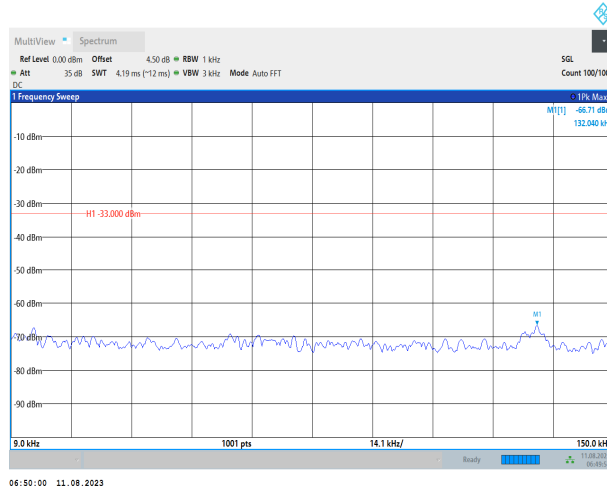


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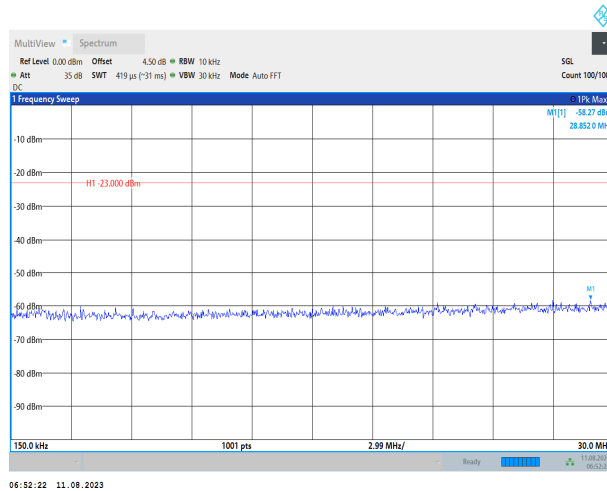
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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

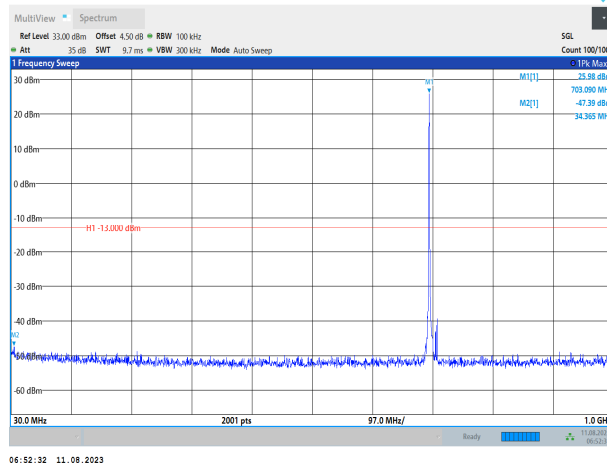


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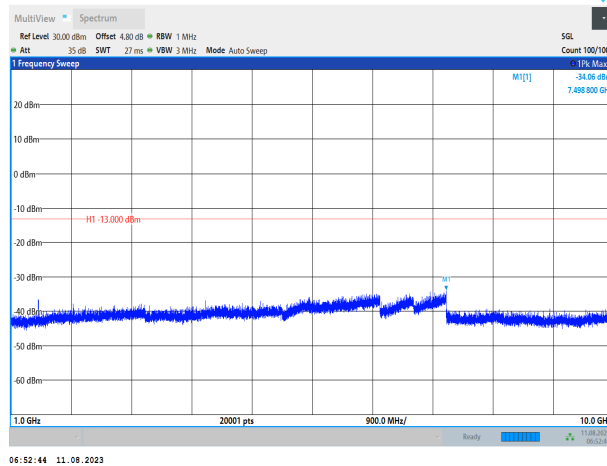
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

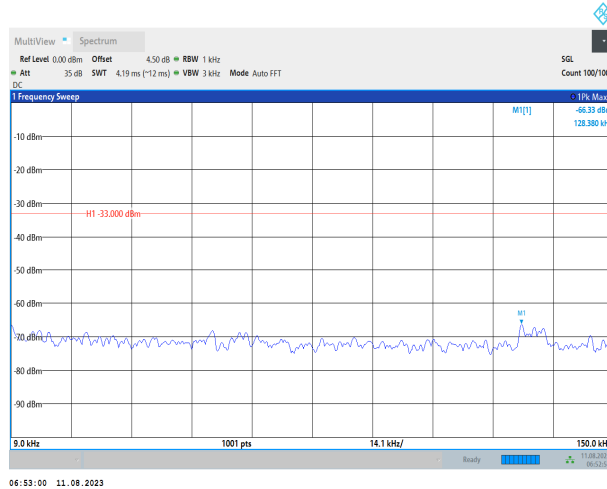


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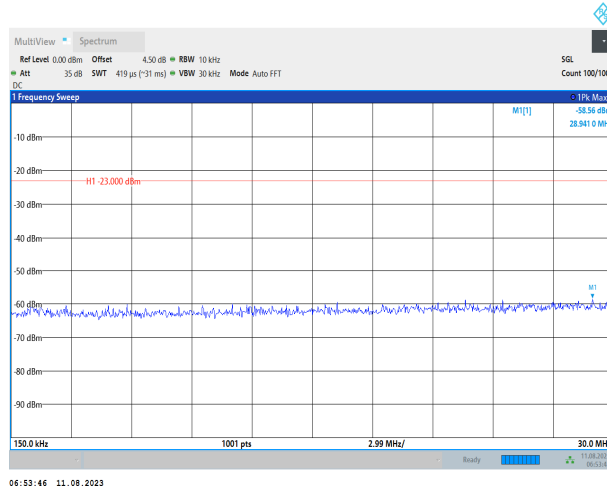
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

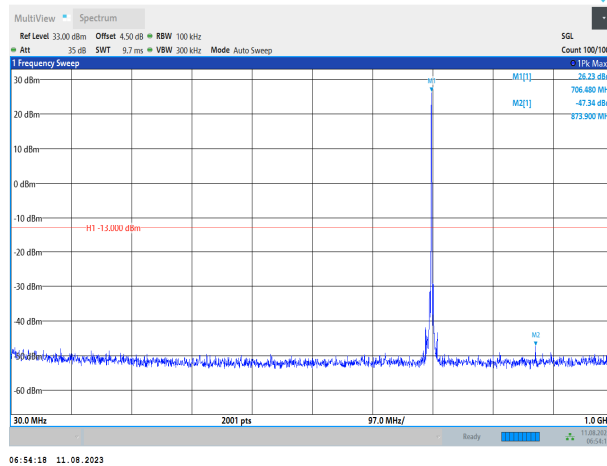


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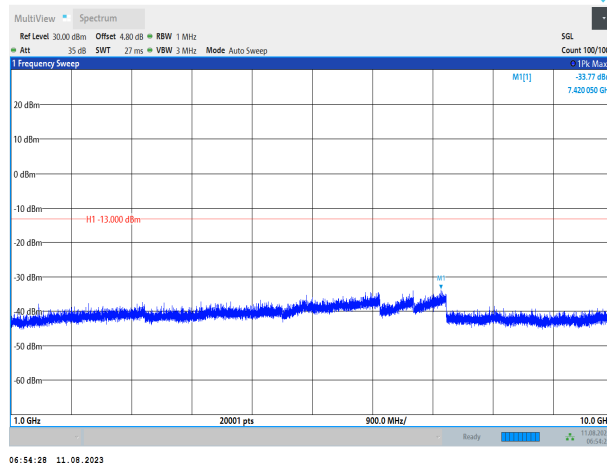
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ TM1

Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	44.42	-48.00	25.10	-73.74	-13.00	60.74	214	215	Horizontal
2	2098.7700	43.14	-47.71	26.18	-73.66	-13.00	60.66	152	242	Horizontal
3	2798.3600	43.15	-46.92	27.90	-71.13	-13.00	58.13	136	295	Horizontal
4	3497.9500	42.93	-46.54	28.60	-70.27	-13.00	57.27	256	10	Horizontal
5	4197.5400	41.08	-45.96	29.57	-70.56	-13.00	57.56	261	348	Horizontal
6	4897.1300	41.47	-45.58	31.17	-68.20	-13.00	55.20	199	122	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	43.84	-48.00	25.10	-74.32	-13.00	61.32	244	360	Vertical
2	2098.7700	43.48	-47.71	26.18	-73.32	-13.00	60.32	157	238	Vertical
3	2798.3600	43.08	-46.92	27.90	-71.20	-13.00	58.20	186	184	Vertical
4	3497.9500	42.34	-46.54	28.60	-70.86	-13.00	57.86	256	132	Vertical
5	4197.5400	41.04	-45.96	29.57	-70.60	-13.00	57.60	136	26	Vertical
6	4897.1300	41.86	-45.58	31.17	-67.81	-13.00	54.81	251	67	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	45.33	-48.02	25.10	-72.85	-13.00	59.85	244	96	Horizontal
2	2109.2700	42.95	-47.71	26.21	-73.81	-13.00	60.81	189	307	Horizontal
3	2812.3600	42.91	-46.88	27.93	-71.30	-13.00	58.30	199	0	Horizontal
4	3515.4500	42.80	-46.51	28.62	-70.35	-13.00	57.35	265	268	Horizontal
5	4218.5400	41.26	-45.93	29.63	-70.30	-13.00	57.30	145	29	Horizontal
6	4921.6300	42.07	-45.63	31.23	-67.59	-13.00	54.59	158	162	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	45.25	-48.02	25.10	-72.93	-13.00	59.93	233	53	Vertical
2	2109.2700	43.79	-47.71	26.21	-72.97	-13.00	59.97	261	210	Vertical
3	2812.3600	42.79	-46.88	27.93	-71.42	-13.00	58.42	154	172	Vertical
4	3515.4500	42.08	-46.51	28.62	-71.07	-13.00	58.07	145	91	Vertical
5	4218.5400	41.83	-45.93	29.63	-69.73	-13.00	56.73	175	13	Vertical
6	4921.6300	42.17	-45.63	31.23	-67.49	-13.00	54.49	185	79	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = High ANTO

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	47.62	-48.04	25.11	-70.58	-13.00	57.58	241	269	Horizontal
2	2119.7700	43.11	-47.70	26.24	-73.62	-13.00	60.62	153	96	Horizontal
3	2826.3600	43.04	-46.83	27.95	-71.09	-13.00	58.09	261	230	Horizontal
4	3532.9500	42.55	-46.47	28.63	-70.55	-13.00	57.55	136	189	Horizontal
5	4239.5400	41.64	-45.89	29.68	-69.83	-13.00	56.83	256	30	Horizontal
6	4946.1300	41.97	-45.69	31.28	-67.69	-13.00	54.69	166	243	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	46.28	-48.04	25.11	-71.92	-13.00	58.92	124	184	Vertical
2	2119.7700	43.58	-47.70	26.24	-73.15	-13.00	60.15	152	104	Vertical
3	2826.3600	43.70	-46.83	27.95	-70.43	-13.00	57.43	153	170	Vertical
4	3532.9500	41.90	-46.47	28.63	-71.20	-13.00	58.20	261	52	Vertical
5	4239.5400	41.35	-45.89	29.68	-70.12	-13.00	57.12	199	92	Vertical
6	4946.1300	41.58	-45.69	31.28	-68.08	-13.00	55.08	154	78	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	44.17	-48.00	25.10	-73.99	-13.00	60.99	245	4	Horizontal
2	2098.7700	42.80	-47.71	26.18	-74.00	-13.00	61.00	186	320	Horizontal
3	2798.3600	43.17	-46.92	27.90	-71.11	-13.00	58.11	233	4	Horizontal
4	3497.9500	42.76	-46.54	28.60	-70.44	-13.00	57.44	126	175	Horizontal
5	4197.5400	40.90	-45.96	29.57	-70.74	-13.00	57.74	261	0	Horizontal
6	4897.1300	41.58	-45.58	31.17	-68.09	-13.00	55.09	155	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	44.16	-48.00	25.10	-74.00	-13.00	61.00	163	222	Vertical
2	2098.7700	43.15	-47.71	26.18	-73.65	-13.00	60.65	259	25	Vertical
3	2798.3600	43.31	-46.92	27.90	-70.97	-13.00	57.97	199	302	Vertical
4	3497.9500	42.71	-46.54	28.60	-70.49	-13.00	57.49	184	237	Vertical
5	4197.5400	41.11	-45.96	29.57	-70.53	-13.00	57.53	175	360	Vertical
6	4897.1300	41.87	-45.58	31.17	-67.80	-13.00	54.80	163	196	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	44.93	-48.02	25.10	-73.25	-13.00	60.25	125	320	Horizontal
2	2109.2700	43.72	-47.71	26.21	-73.04	-13.00	60.04	154	150	Horizontal
3	2812.3600	43.10	-46.88	27.93	-71.11	-13.00	58.11	175	83	Horizontal
4	3515.4500	42.46	-46.51	28.62	-70.69	-13.00	57.69	186	176	Horizontal
5	4218.5400	41.06	-45.93	29.63	-70.50	-13.00	57.50	263	68	Horizontal
6	4921.6300	41.85	-45.63	31.23	-67.81	-13.00	54.81	261	121	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	44.69	-48.02	25.10	-73.49	-13.00	60.49	244	91	Vertical
2	2109.2700	43.65	-47.71	26.21	-73.11	-13.00	60.11	156	250	Vertical
3	2812.3600	42.92	-46.88	27.93	-71.29	-13.00	58.29	187	250	Vertical
4	3515.4500	42.43	-46.51	28.62	-70.72	-13.00	57.72	184	77	Vertical
5	4218.5400	41.14	-45.93	29.63	-70.42	-13.00	57.42	163	360	Vertical
6	4921.6300	41.92	-45.63	31.23	-67.74	-13.00	54.74	251	330	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	47.52	-48.04	25.11	-70.68	-13.00	57.68	263	268	Horizontal
2	2119.7700	42.64	-47.70	26.24	-74.09	-13.00	61.09	261	1	Horizontal
3	2826.3600	43.61	-46.83	27.95	-70.52	-13.00	57.52	145	0	Horizontal
4	3532.9500	42.01	-46.47	28.63	-71.09	-13.00	58.09	188	356	Horizontal
5	4239.5400	41.71	-45.89	29.68	-69.76	-13.00	56.76	196	29	Horizontal
6	4946.1300	41.55	-45.69	31.28	-68.11	-13.00	55.11	258	68	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	45.94	-48.04	25.11	-72.26	-13.00	59.26	241	50	Vertical
2	2119.7700	42.93	-47.70	26.24	-73.80	-13.00	60.80	174	77	Vertical
3	2826.3600	43.46	-46.83	27.95	-70.67	-13.00	57.67	154	291	Vertical
4	3532.9500	42.54	-46.47	28.63	-70.56	-13.00	57.56	133	65	Vertical
5	4239.5400	41.45	-45.89	29.68	-70.02	-13.00	57.02	261	3	Vertical
6	4946.1300	41.68	-45.69	31.28	-67.98	-13.00	54.98	158	317	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) - Pre-amplifier (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	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.30	-0.000424	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.80	0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.90	0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.70	0.000989	PASS

---End of Attachment---



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