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Appendix B.7

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.11	14.06	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.23	14.18	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.09	14.04	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.18	13.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.20	14.15	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.32	14.27	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.17	14.12	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.26	13.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.20	14.15	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.35	14.30	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.21	14.16	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.34	13.29	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.39	13.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.45	13.40	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.29	13.24	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.25	12.20	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.50	13.45	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.50	13.45	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.49	13.44	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.33	12.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.47	13.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.63	13.58	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.40	13.35	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.36	12.31	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.19	12.14	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.37	12.32	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#5	21.29	12.24	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.19	11.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.33	12.28	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.50	12.45	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.31	12.26	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.23	11.18	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.36	12.31	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.42	12.37	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.36	12.31	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.33	11.28	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.17	14.12	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.17	14.12	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.16	14.11	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.17	13.12	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.23	14.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.25	14.20	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.21	14.16	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.20	13.15	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.27	14.22	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.30	14.25	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.27	14.22	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.30	13.25	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.37	13.32	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.41	13.36	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.49	13.44	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.17	12.12	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.41	13.36	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.54	13.49	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.37	13.32	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.22	12.17	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.37	13.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.42	13.37	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.49	13.44	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.26	12.21	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.28	12.23	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.29	12.24	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.28	12.23	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.19	11.14	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.36	12.31	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.38	12.33	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.28	12.23	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.23	11.18	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.32	12.27	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.38	12.33	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.38	12.33	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.30	11.25	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.09	14.04	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.37	14.32	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.08	14.03	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.13	13.08	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.12	14.07	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.44	14.39	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.12	14.07	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.26	13.21	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.15	14.10	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.42	14.37	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.16	14.11	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.22	13.17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.28	13.23	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.45	13.40	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.19	13.14	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.12	12.07	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.37	13.32	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.72	13.67	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.42	13.37	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.23	12.18	34.77	PASS



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Band12	5MHz	16QAM	23155	1RB#0	22.37	13.32	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.64	13.59	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.42	13.37	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.19	12.14	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.21	12.16	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.54	12.49	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.17	12.12	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.15	11.10	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.25	12.20	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.50	12.45	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.31	12.26	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.26	11.21	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.24	12.19	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.51	12.46	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.24	12.19	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.25	11.20	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.21	14.16	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.29	14.24	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.20	14.15	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.26	13.21	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.19	14.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.30	14.25	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.24	14.19	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.31	13.26	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.27	14.22	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.30	14.25	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.24	14.19	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.32	13.27	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.37	13.32	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.54	13.49	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.50	13.45	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.25	12.20	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.48	13.43	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#24	22.55	13.50	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.42	13.37	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.28	12.23	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.55	13.50	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.51	13.46	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.52	13.47	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.31	12.26	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.26	12.21	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.46	12.41	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.34	12.29	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.27	11.22	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.33	12.28	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.49	12.44	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.41	12.36	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.32	11.27	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.42	12.37	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.48	12.43	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.39	12.34	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.34	11.29	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	5.54	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.44	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.50	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.04	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.26	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.24	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.28	13	PASS



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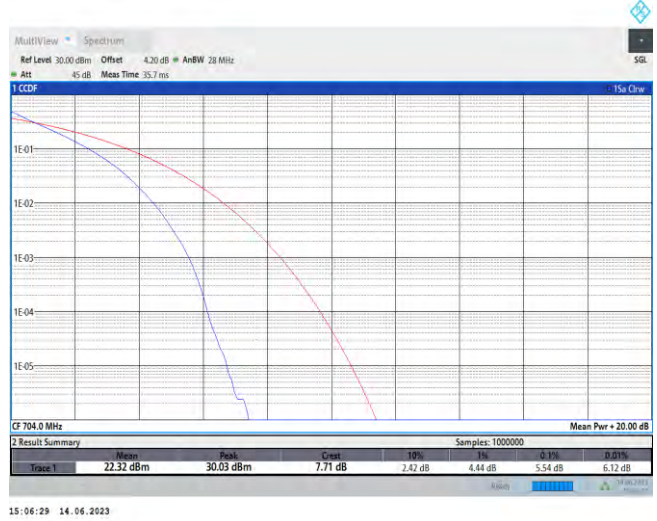
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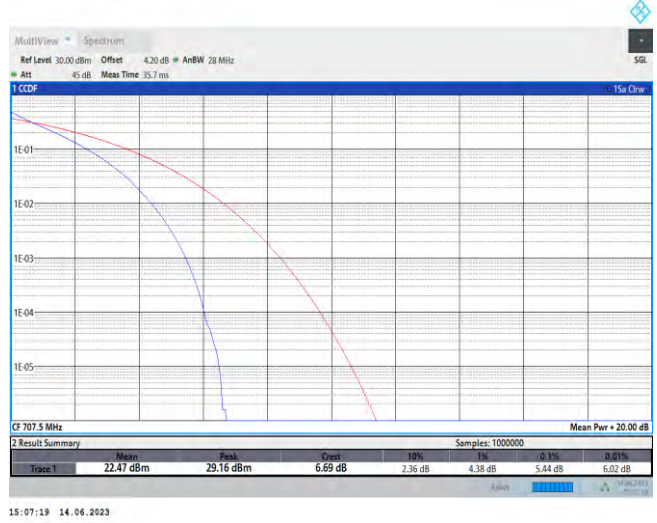
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Test Graphs

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



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

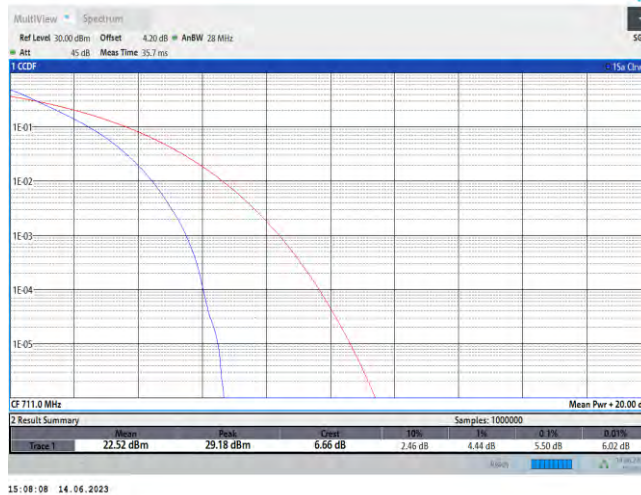


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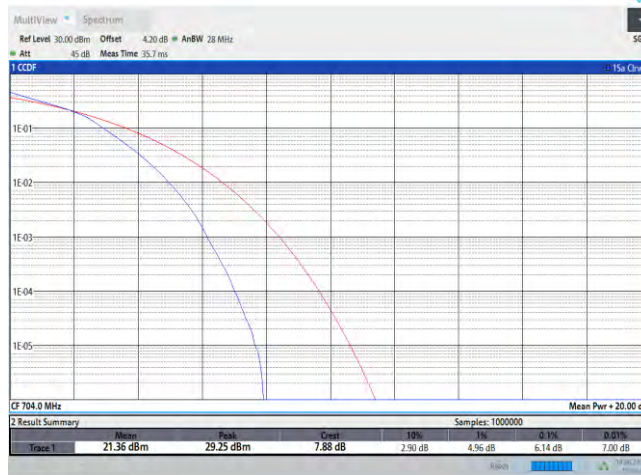
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Band12-10MHz-QPSK-23130-50RB#0



15:08:08 14.06.2023

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



15:06:45 14.06.2023



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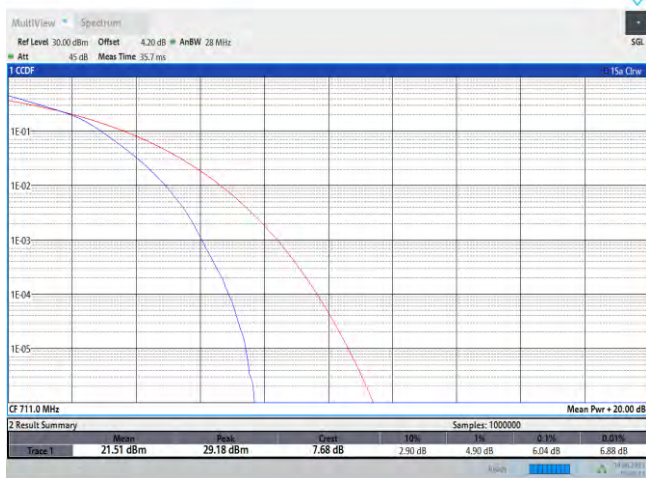
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Band12-10MHz-16QAM-23095-50RB#0



15:07:35 14.06.2023

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



15:08:25 14.06.2023



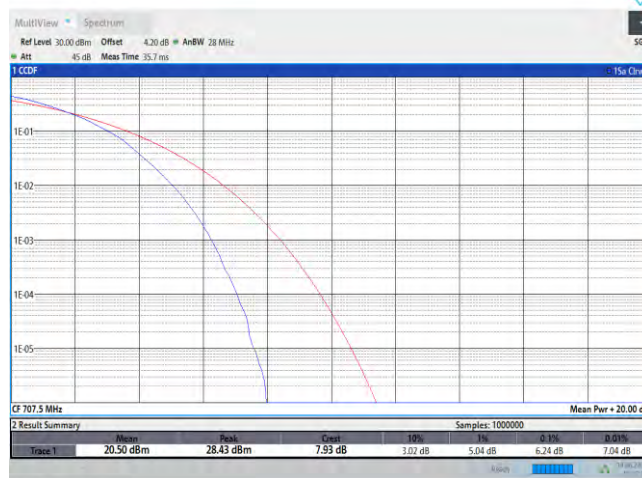
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Band12-10MHz-64QAM-23060-50RB#0



15:07:02 14.06.2023

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



15:07:52 14.06.2023



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



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Rev.: 01

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Modulation Characteristics

Test Result

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



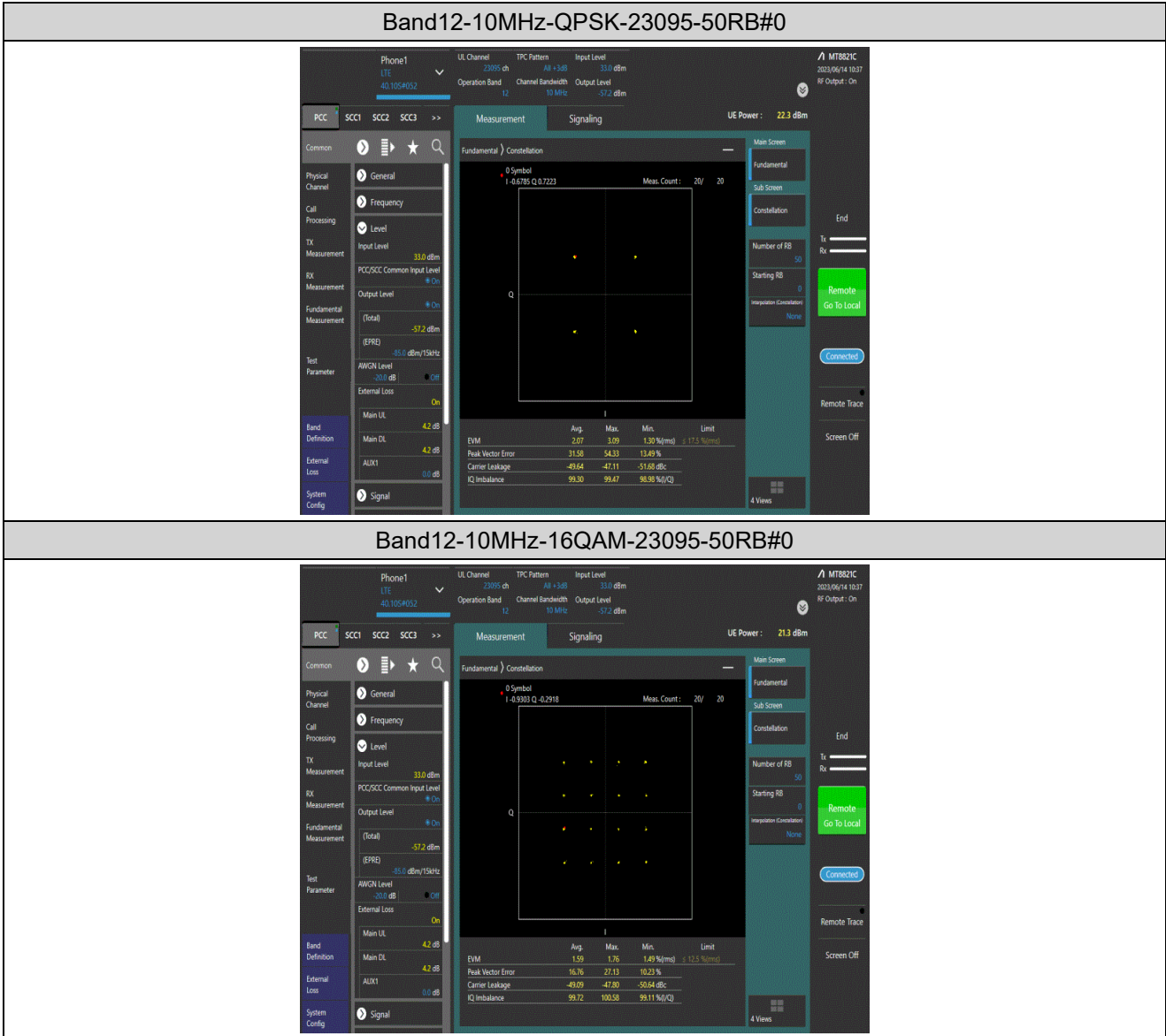
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Test Graphs

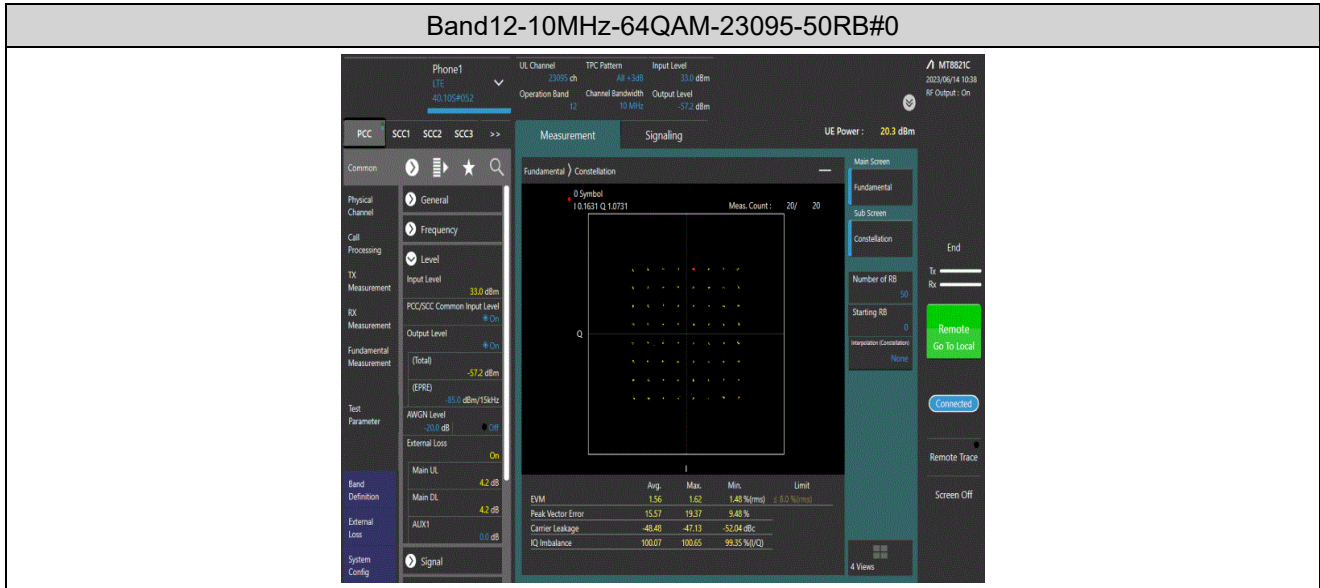


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.086	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.096	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.687	2.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.686	2.88	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.682	2.91	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.679	2.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.676	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.674	2.90	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.680	2.90	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.682	2.89	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.678	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	5.33	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.471	4.83	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.466	4.81	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	5.00	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.468	5.21	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.463	4.82	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.471	4.85	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.473	4.84	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.467	4.83	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.937	9.94	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.940	9.60	PASS



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Report No.: SEWM2306000195RG01

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Band12	10MHz	QPSK	23130	50RB#0	8.920	9.56	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.925	10.10	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.926	9.60	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.918	10.12	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.931	9.62	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.935	9.66	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.931	9.58	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



14:06:48 14.06.2023

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



14:05:22 14.06.2023



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



14:06:14 14.06.2023

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



14:07:05 14.06.2023



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



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



14:07:22 14.06.2023

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



14:07:59 14.06.2023



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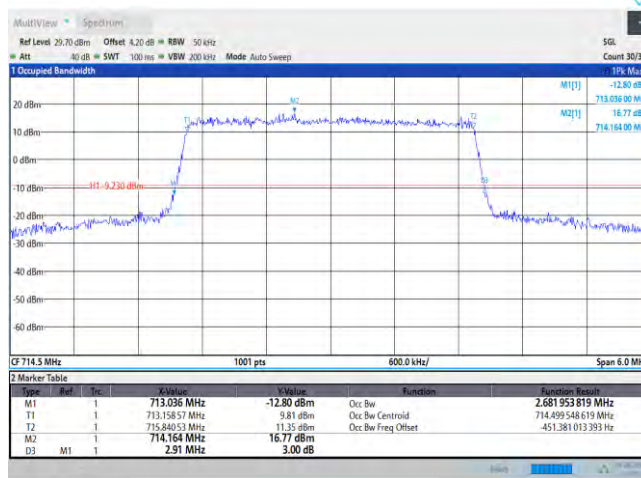
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Band12-3MHz-QPSK-23095-15RB#0



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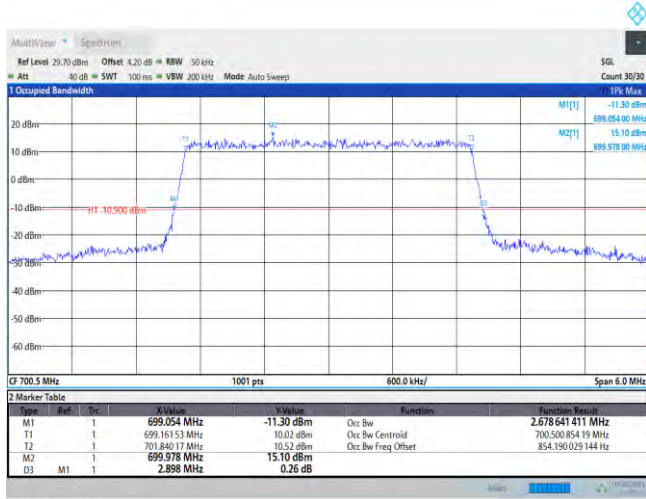


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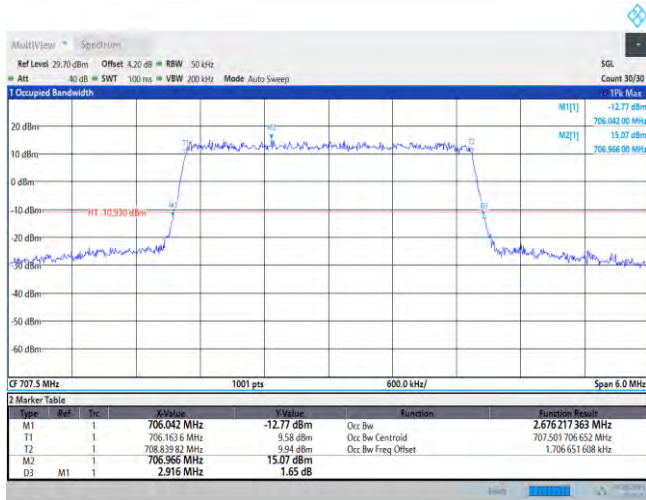
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Band12-3MHz-16QAM-23025-15RB#0



14:08:15 14.06.2023

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

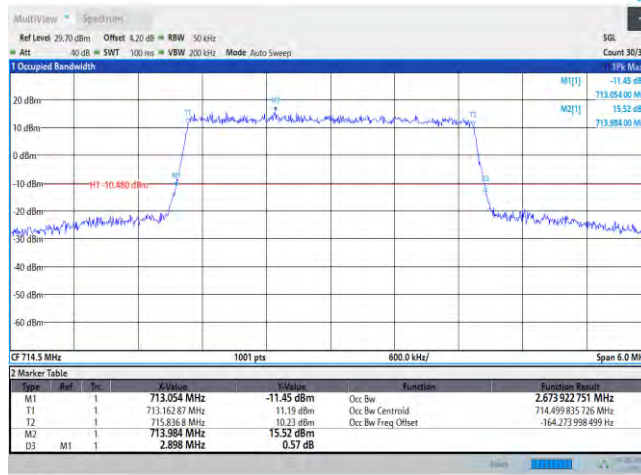


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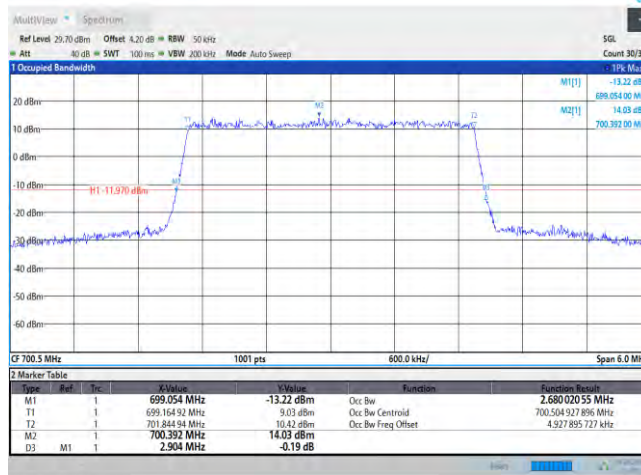
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Band12-3MHz-16QAM-23165-15RB#0



14:09:52 14.06.2023

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



14:08:31 14.06.2023



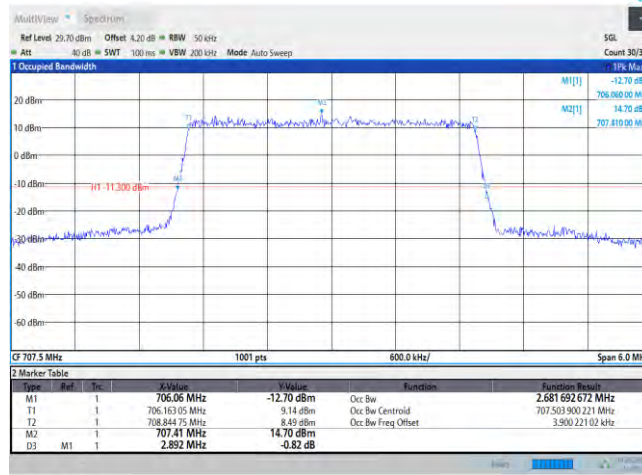
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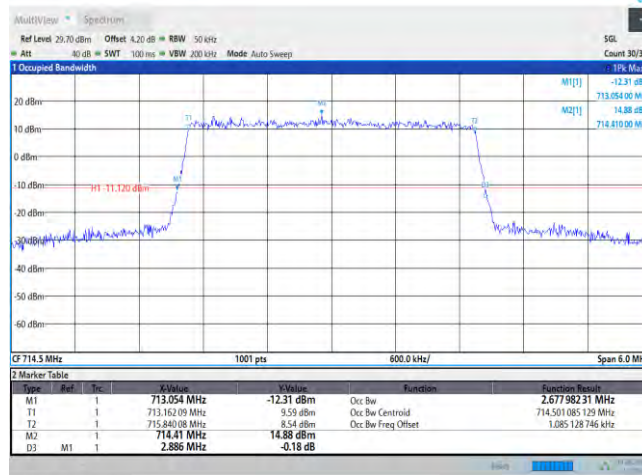
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14:09:19 14.06.2023

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



14:10:08 14.06.2023

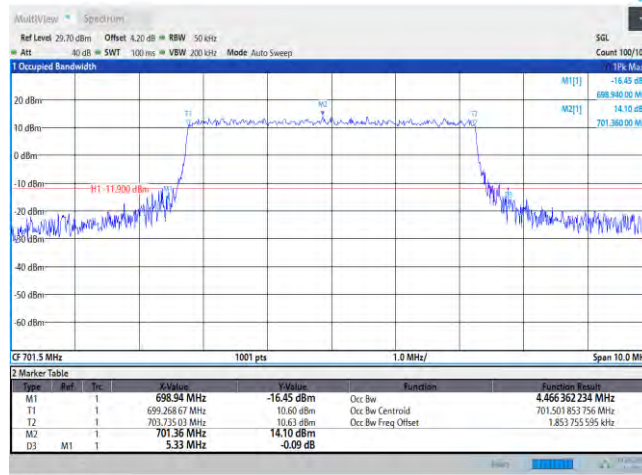


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Band12-5MHz-QPSK-23035-25RB#0



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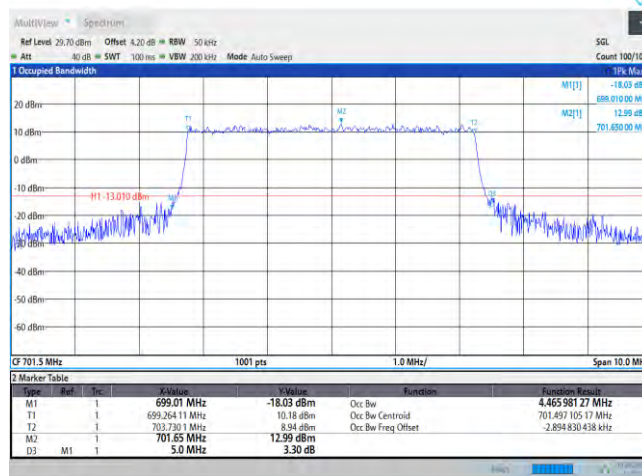
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Band12-5MHz-QPSK-23155-25RB#0



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



14:11:15 14.06.2023



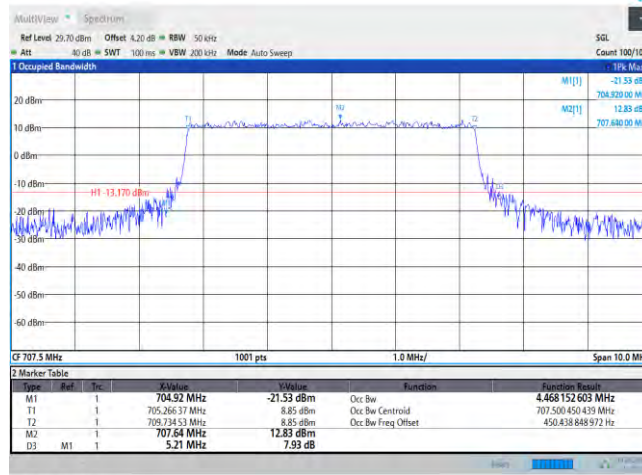
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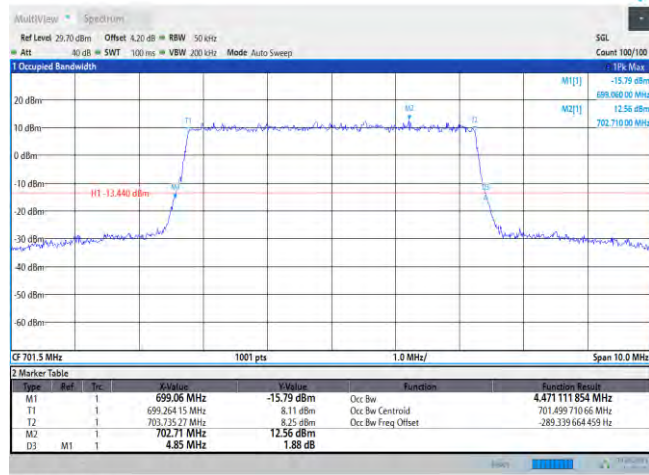
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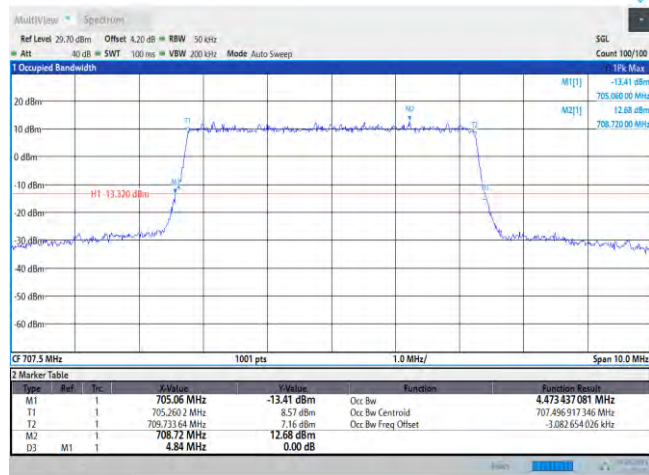
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14:12:47 14.06.2023

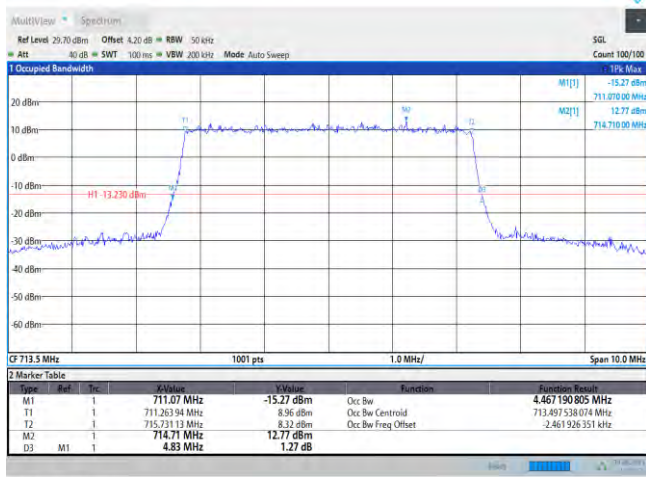


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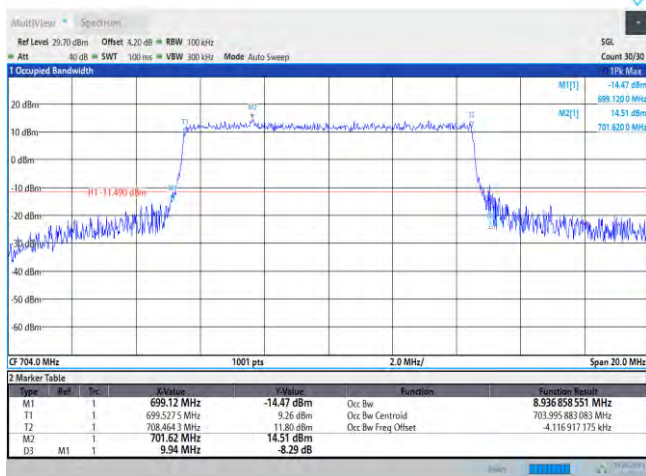
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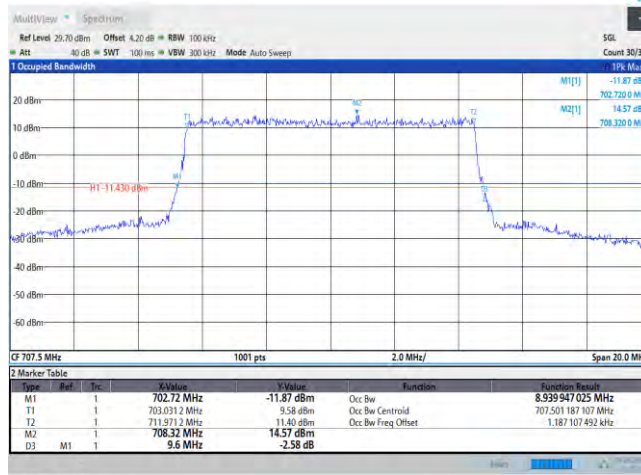


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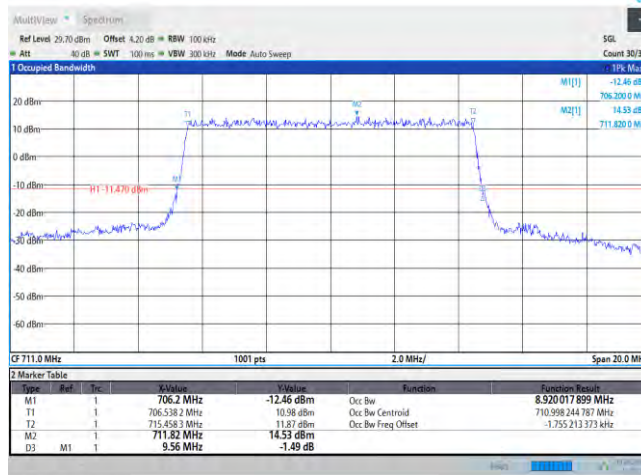
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Band12-10MHz-QPSK-23095-50RB#0



14:15:22 14.06.2023

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



14:16:11 14.06.2023

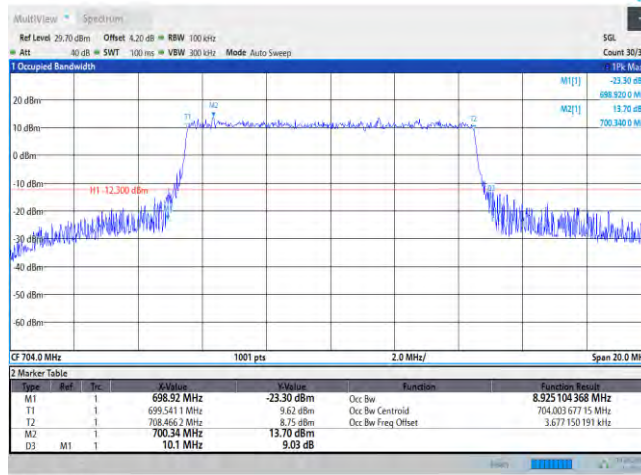


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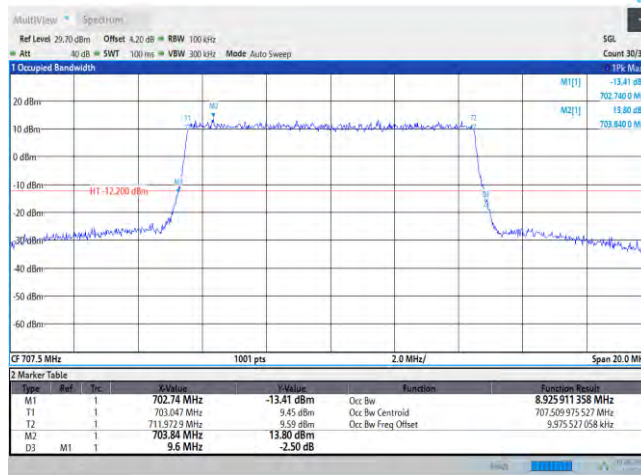
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Band12-10MHz-16QAM-23060-50RB#0



14:14:50 14.06.2023

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



14:15:38 14.06.2023

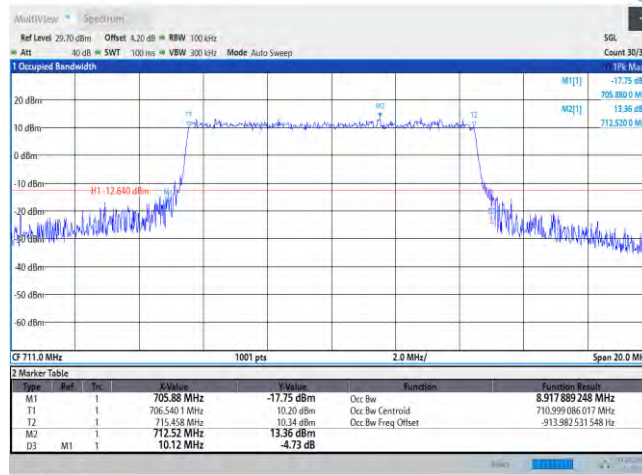


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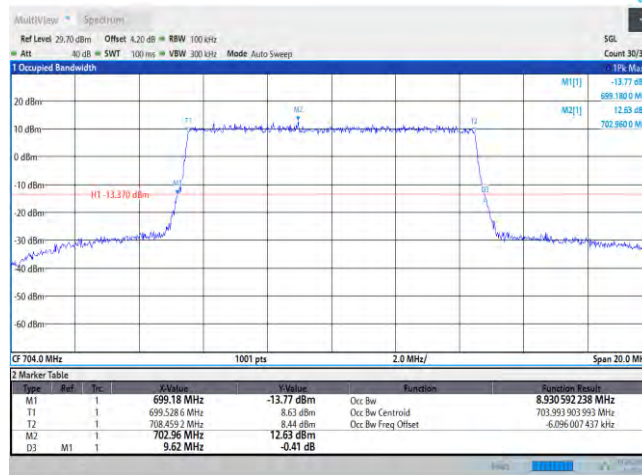
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Band12-10MHz-16QAM-23130-50RB#0



14:16:27 14.06.2023

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



14:15:06 14.06.2023

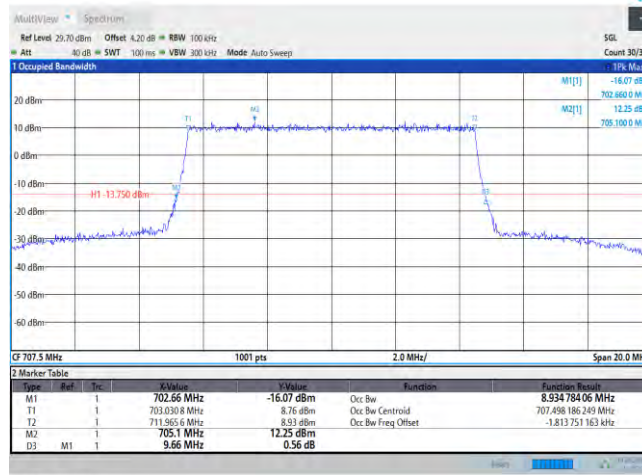


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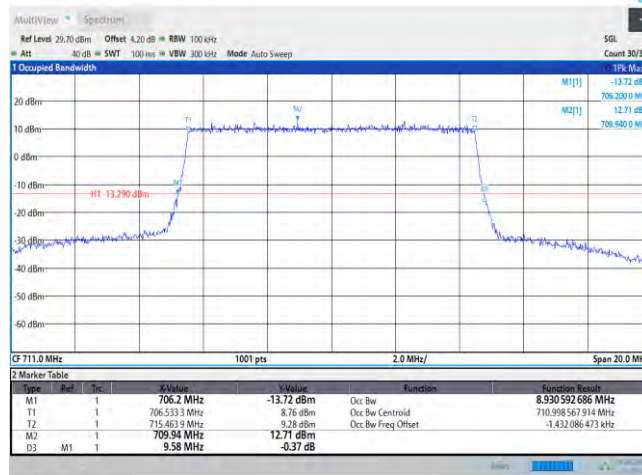
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Band12-10MHz-64QAM-23095-50RB#0



14:15:55 14.06.2023

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



14:16:43 14.06.2023



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Band Edge

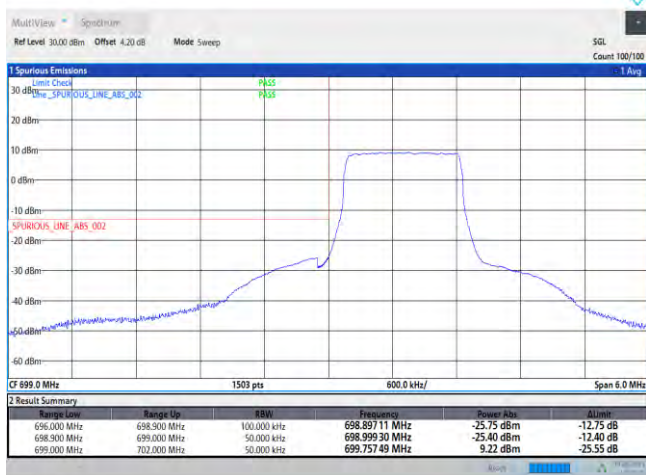
Test Graphs

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



14:19:52 14.06.2023

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



14:22:36 14.06.2023



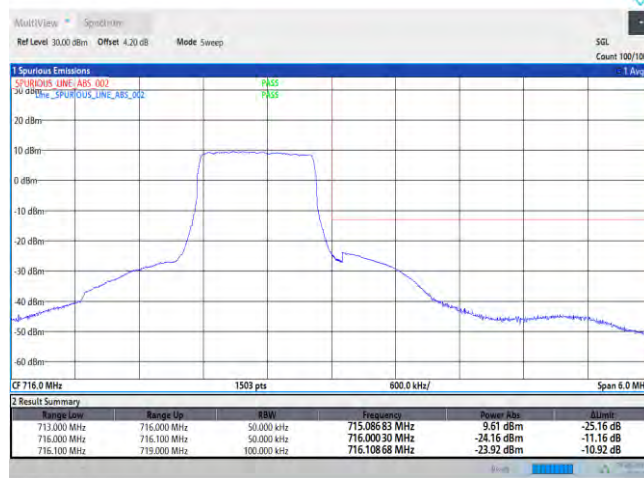
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Band12-1.4MHz-QPSK-23173-1RB#5



14:25:45 14.06.2023

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



14:28:29 14.06.2023



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



14:31:38 14.06.2023

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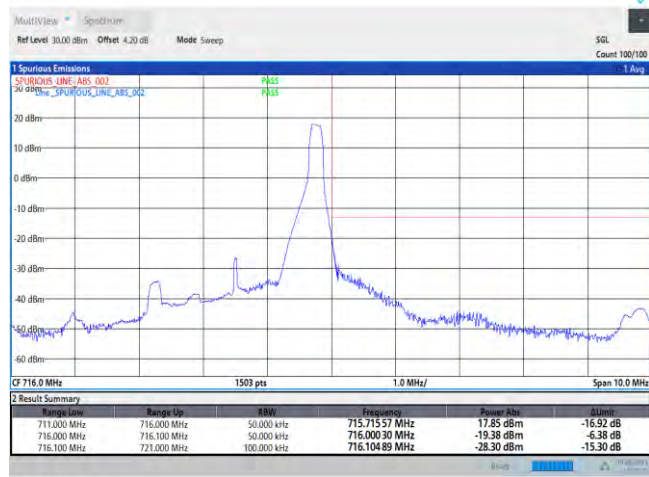


14:34:21 14.06.2023



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



14:37:30 14.06.2023

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



14:40:14 14.06.2023



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



14:43:24 14.06.2023

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



14:46:08 14.06.2023

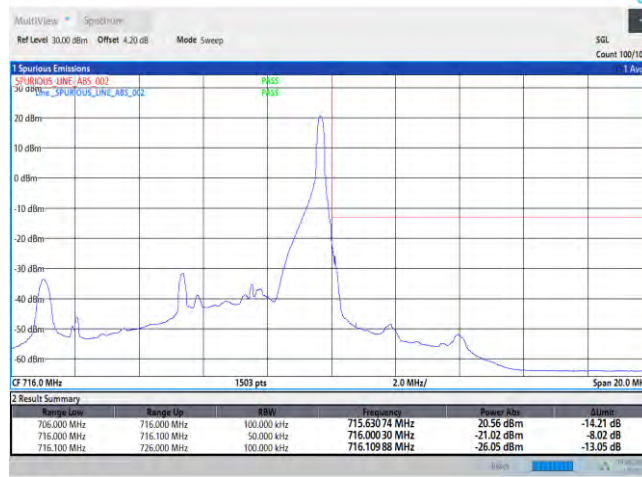


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Band12-5MHz-QPSK-23155-1RB#24



14:49:18 14.06.2023

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



14:52:02 14.06.2023

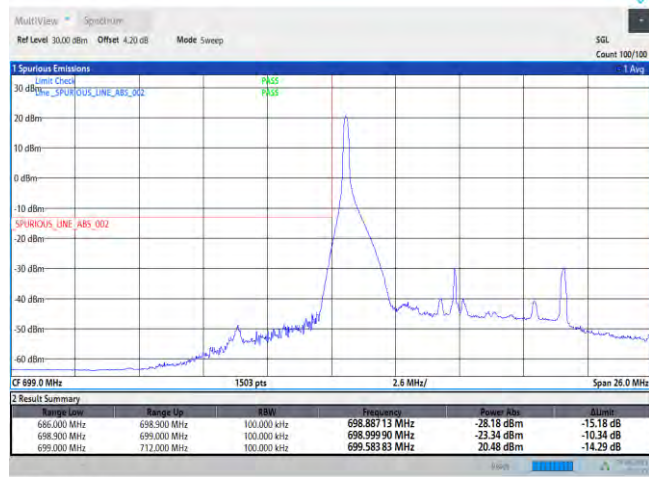


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Band12-10MHz-QPSK-23060-1RB#0



14:55:12 14.06.2023

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



14:57:56 14.06.2023

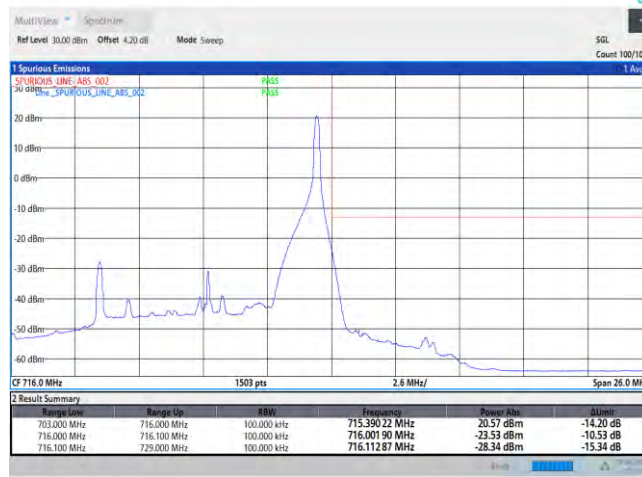


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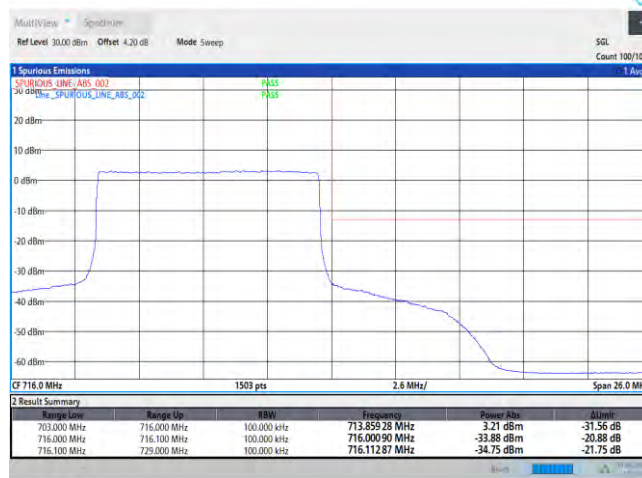
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Band12-10MHz-QPSK-23130-1RB#49



15:01:05 14.06.2023

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



15:03:50 14.06.2023



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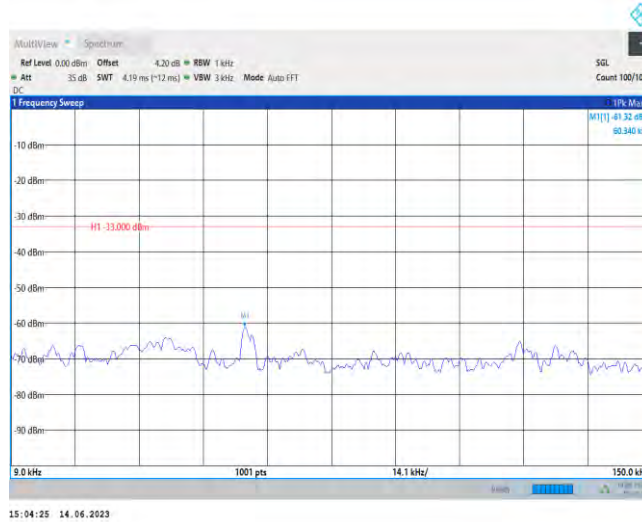
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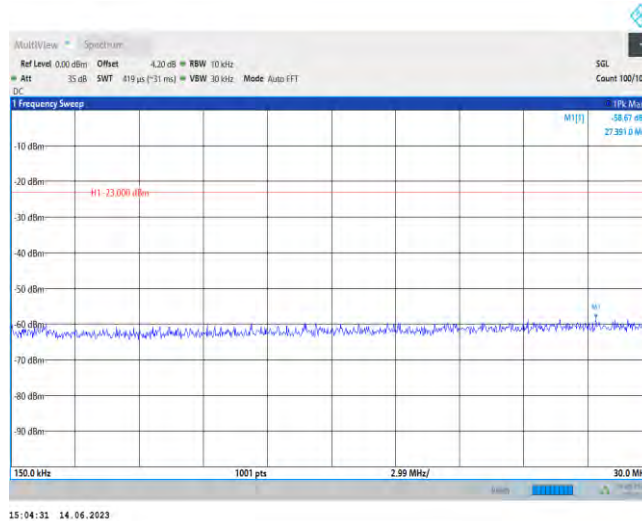
Conducted Spurious Emission

Test Graphs

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



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



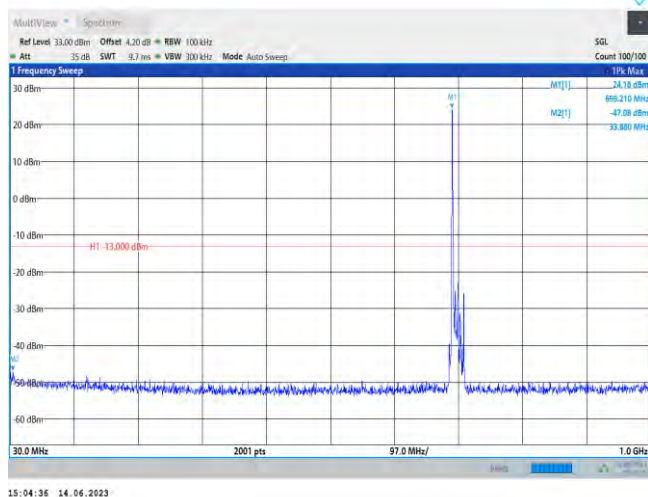
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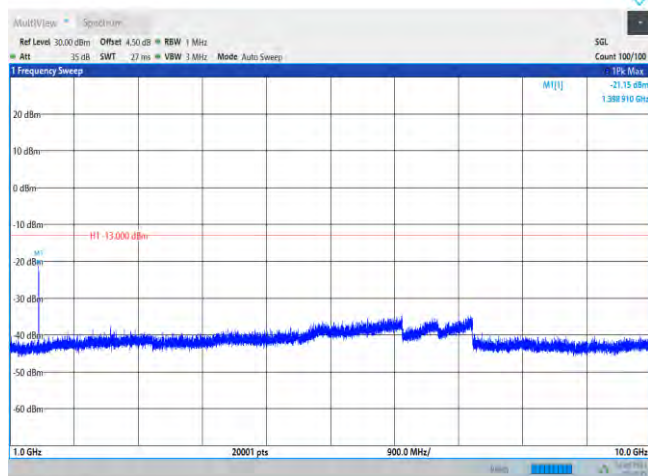
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



15:04:36 14.06.2023

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

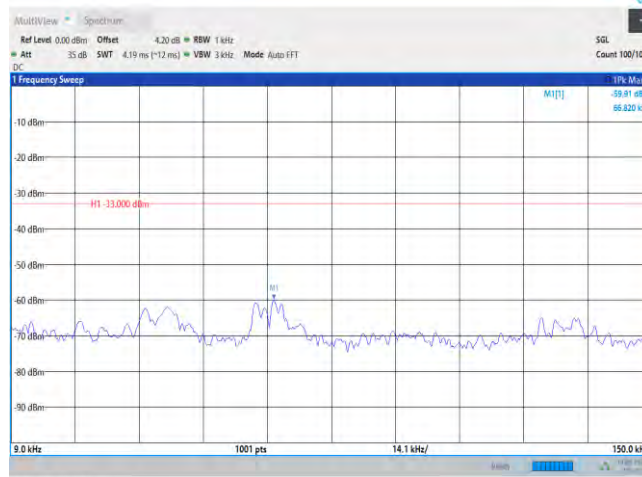


15:04:44 14.06.2023



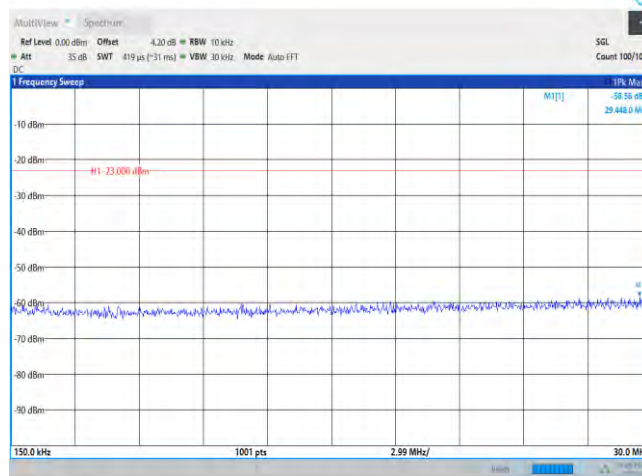
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



15:04:59 14.06.2023

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



15:05:05 14.06.2023

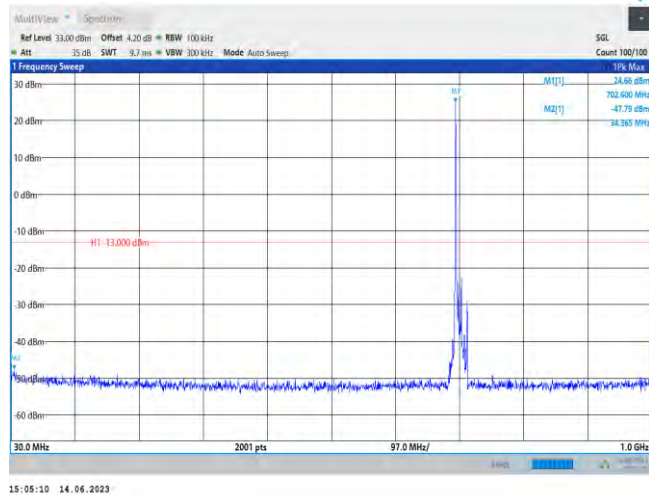


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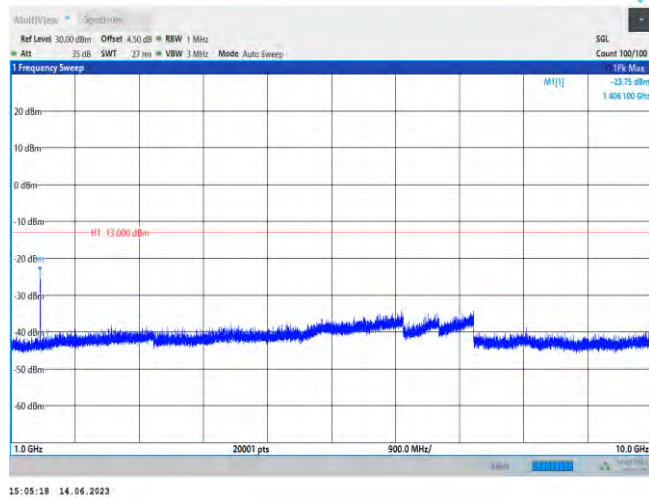
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



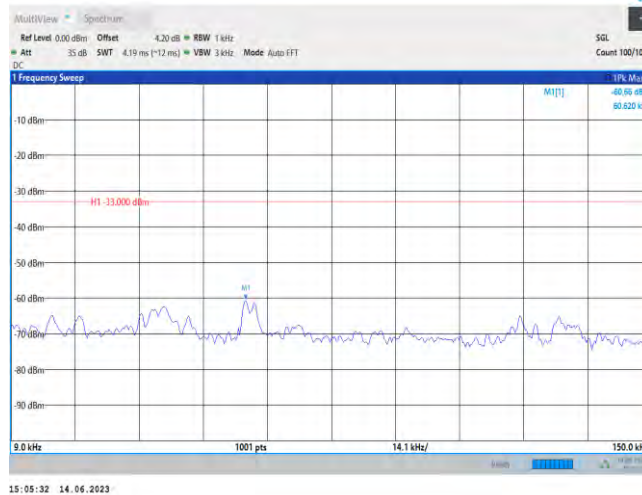
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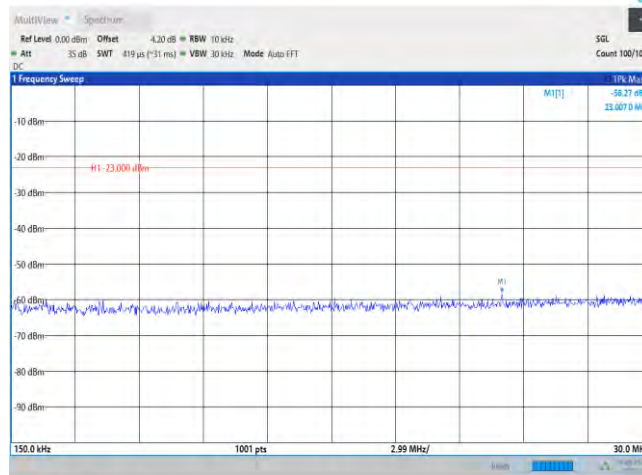
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



15:05:32 14.06.2023

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



15:05:38 14.06.2023

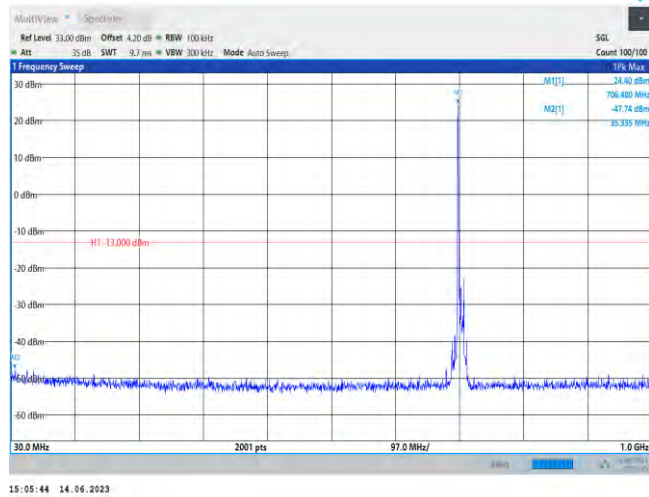


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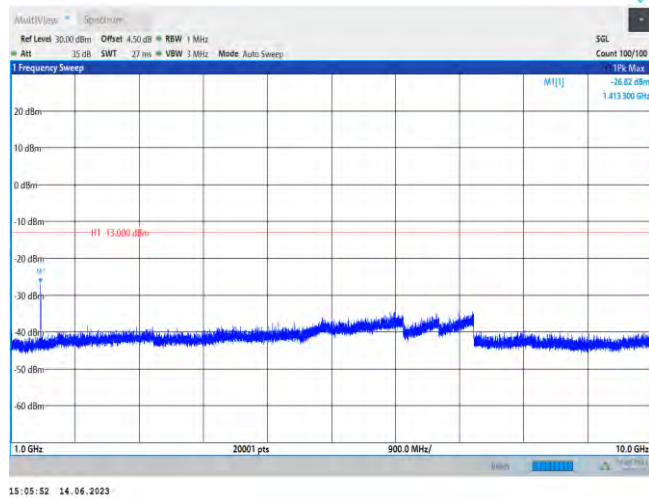
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band12_10MHz_TM1

Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1415.4286	70.60	-48.05	25.11	-47.60	-13.00	34.60	155	242	Horizontal
2	1840	44.71	-47.99	25.58	-72.96	-13.00	59.96	163	9	Horizontal
3	2358.8571	44.75	-47.47	26.90	-71.08	-13.00	58.08	259	228	Horizontal
4	2826.2857	44.46	-46.83	27.95	-69.68	-13.00	56.68	184	43	Horizontal
5	3505.1429	44.06	-46.53	28.61	-69.12	-13.00	56.12	175	357	Horizontal
6	4552	43.20	-45.70	30.41	-67.34	-13.00	54.34	123	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1416.5714	58.36	-48.05	25.11	-59.84	-13.00	46.84	120	305	Vertical
2	1786.2857	44.73	-47.98	25.48	-73.03	-13.00	60.03	155	226	Vertical
3	2088.5714	44.64	-47.73	26.15	-72.20	-13.00	59.20	142	252	Vertical
4	2579.4286	44.39	-47.00	27.46	-70.41	-13.00	57.41	169	264	Vertical
5	3793.7143	43.13	-46.16	28.89	-69.40	-13.00	56.40	258	3	Vertical
6	5417.1429	42.07	-45.00	32.40	-65.79	-13.00	52.79	175	53	Vertical



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Test Band = LTE Band12_10MHz_TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1848	44.82	-48.00	25.60	-72.84	-13.00	59.84	163	187	Horizontal
2	2344.5714	44.80	-47.48	26.86	-71.07	-13.00	58.07	259	239	Horizontal
3	2805.7143	44.67	-46.90	27.91	-69.58	-13.00	56.58	145	0	Horizontal
4	3451.4286	44.15	-46.54	28.57	-69.08	-13.00	56.08	175	227	Horizontal
5	3945.7143	43.36	-46.22	29.05	-69.07	-13.00	56.07	188	17	Horizontal
6	4876	43.23	-45.59	31.13	-66.50	-13.00	53.50	163	67	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1735.4286	45.09	-48.09	25.40	-72.85	-13.00	59.85	233	78	Vertical
2	1936	44.94	-48.00	25.77	-72.54	-13.00	59.54	256	144	Vertical
3	2495.4286	44.57	-47.28	27.29	-70.68	-13.00	57.68	145	358	Vertical
4	3023.4286	44.51	-46.57	28.31	-69.01	-13.00	56.01	185	359	Vertical
5	4001.1429	43.23	-46.20	29.10	-69.12	-13.00	56.12	196	359	Vertical
6	5221.1429	42.30	-45.05	31.93	-66.08	-13.00	53.08	258	3	Vertical



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Test Band = LTE Band12_10MHz_TM1
Test Channel = High ANTO

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1830.8571	44.81	-47.98	25.56	-72.87	-13.00	59.87	126	0	Horizontal
2	2577.7143	44.24	-47.01	27.46	-70.57	-13.00	57.57	251	255	Horizontal
3	3200	43.84	-46.29	28.42	-69.29	-13.00	56.29	148	200	Horizontal
4	3592.5714	43.71	-46.35	28.69	-69.21	-13.00	56.21	175	281	Horizontal
5	4516.5714	43.15	-45.63	30.34	-67.41	-13.00	54.41	136	227	Horizontal
6	5146.8571	42.07	-45.20	31.75	-66.63	-13.00	53.63	259	268	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1585.7143	45.58	-48.29	25.19	-72.77	-13.00	59.77	216	182	Vertical
2	1945.1429	45.24	-47.98	25.79	-72.21	-13.00	59.21	154	91	Vertical
3	2404.5714	44.78	-47.44	27.03	-70.89	-13.00	57.89	189	302	Vertical
4	2949.7143	44.43	-46.55	28.20	-69.18	-13.00	56.18	186	360	Vertical
5	3594.2857	43.32	-46.35	28.69	-69.60	-13.00	56.60	263	117	Vertical
6	5708.5714	41.90	-44.58	32.64	-65.30	-13.00	52.30	251	91	Vertical



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Test Band = LTE Band12_10MHz_TM1

Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1879.4286	44.83	-48.03	25.66	-72.80	-13.00	59.80	166	0	Horizontal
2	2199.4286	45.12	-47.68	26.46	-71.36	-13.00	58.36	158	0	Horizontal
3	2982.8571	44.02	-46.53	28.27	-69.50	-13.00	56.50	148	240	Horizontal
4	3304.5714	44.13	-46.67	28.48	-69.32	-13.00	56.32	178	56	Horizontal
5	4438.2857	42.94	-45.78	30.15	-67.95	-13.00	54.95	188	255	Horizontal
6	5693.1429	41.85	-44.62	32.64	-65.39	-13.00	52.39	192	42	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1936	45.13	-48.00	25.77	-72.35	-13.00	59.35	221	79	Vertical
2	2412	44.46	-47.43	27.05	-71.17	-13.00	58.17	153	91	Vertical
3	3176.5714	43.96	-46.40	28.41	-69.29	-13.00	56.29	263	158	Vertical
4	4035.4286	43.04	-46.09	29.19	-69.13	-13.00	56.13	263	65	Vertical
5	4565.7143	43.32	-45.72	30.44	-67.22	-13.00	54.22	261	4	Vertical
6	5928	41.96	-44.82	32.69	-65.43	-13.00	52.43	188	305	Vertical



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Test Band = LTE Band12_10MHz_TM1

Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1496	45.61	-48.31	25.15	-72.81	-13.00	59.81	177	1	Horizontal
2	2092.5714	44.67	-47.72	26.16	-72.15	-13.00	59.15	185	215	Horizontal
3	2366.8571	44.69	-47.47	26.93	-71.11	-13.00	58.11	189	95	Horizontal
4	2952	43.74	-46.54	28.20	-69.86	-13.00	56.86	199	1	Horizontal
5	3473.7143	44.02	-46.54	28.58	-69.20	-13.00	56.20	165	347	Horizontal
6	4828.5714	42.38	-45.62	31.02	-67.48	-13.00	54.48	142	240	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1630.8571	45.49	-48.24	25.25	-72.77	-13.00	59.77	255	170	Vertical
2	2039.4286	44.83	-47.83	26.01	-72.24	-13.00	59.24	148	3	Vertical
3	2721.7143	44.72	-47.02	27.74	-69.82	-13.00	56.82	186	25	Vertical
4	3400.5714	44.24	-46.54	28.54	-69.02	-13.00	56.02	236	224	Vertical
5	4446.8571	43.16	-45.75	30.17	-67.68	-13.00	54.68	259	65	Vertical
6	5702.2857	41.54	-44.57	32.64	-65.65	-13.00	52.65	199	158	Vertical



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Test Band = LTE Band12_10MHz_TM1
Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1787.4286	45.30	-47.98	25.48	-72.46	-13.00	59.46	236	4	Horizontal
2	2496.5714	43.08	-47.28	27.29	-72.17	-13.00	59.17	256	268	Horizontal
3	3003.4286	44.16	-46.53	28.30	-69.33	-13.00	56.33	126	320	Horizontal
4	3573.7143	43.76	-46.39	28.67	-69.22	-13.00	56.22	219	70	Horizontal
5	4706.8571	42.82	-45.79	30.76	-67.47	-13.00	54.47	154	307	Horizontal
6	6082.8571	41.88	-44.65	32.97	-65.06	-13.00	52.06	155	348	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1735.4286	45.27	-48.09	25.40	-72.67	-13.00	59.67	174	26	Vertical
2	2040	44.71	-47.82	26.01	-72.36	-13.00	59.36	158	198	Vertical
3	2884.5714	43.97	-46.62	28.07	-69.84	-13.00	56.84	166	198	Vertical
4	3464.5714	44.20	-46.54	28.58	-69.02	-13.00	56.02	236	264	Vertical
5	4554.2857	42.85	-45.70	30.42	-67.69	-13.00	54.69	251	359	Vertical
6	5982.2857	42.17	-44.53	32.70	-64.92	-13.00	51.92	148	4	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	-6.60	-0.009329	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-2.00	-0.002827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-6.40	-0.009046	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-9.30	-0.013145	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-8.90	-0.012580	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.20	-0.010177	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-10.70	-0.015124	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-8.00	-0.011307	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-7.70	-0.010883	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.90	-0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-4.00	-0.005654	PASS

---End of Attachment---



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