



Appendix B.6

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	24.49	19.04	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.51	19.06	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.57	19.12	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.52	18.07	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.61	19.16	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.56	19.11	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.51	19.06	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.64	18.19	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.66	19.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.46	19.01	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.45	19	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.58	18.13	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.57	18.12	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.68	18.23	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.66	18.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.56	17.11	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.65	18.2	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.71	18.26	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.65	18.2	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.64	17.19	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.71	18.26	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.77	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.66	18.21	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.56	17.11	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.57	17.12	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#2	22.68	17.23	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.69	17.24	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.48	16.03	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.72	17.27	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.79	17.34	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.72	17.27	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.64	16.19	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.64	17.19	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.78	17.33	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.65	17.2	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.6	16.15	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	19.59	14.14	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	19.65	14.2	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	19.6	14.15	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	19.49	14.04	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	19.61	14.16	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	19.72	14.27	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	19.62	14.17	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	19.58	14.13	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	19.76	14.31	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	19.67	14.22	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	19.69	14.24	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	19.54	14.09	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.49	19.04	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.55	19.1	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.53	19.08	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.59	18.14	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.63	19.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.63	19.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.6	19.15	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.61	18.16	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.61	19.16	34.77	PASS



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Band12	3MHz	QPSK	23165	1RB#8	24.55	19.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.45	19	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.6	18.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.57	18.12	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.66	18.21	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.65	18.2	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.58	17.13	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.65	18.2	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.72	18.27	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.7	18.25	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.62	17.17	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.64	18.19	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.62	18.17	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.66	18.21	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.58	17.13	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.69	17.24	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.61	17.16	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.59	17.14	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.58	16.13	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.69	17.24	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.69	17.24	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.68	17.23	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.61	16.16	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.75	17.3	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.69	17.24	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.71	17.26	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.63	16.18	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	19.61	14.16	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	19.64	14.19	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	19.64	14.19	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	19.56	14.11	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	19.66	14.21	34.77	PASS



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Band12	3MHz	256QAM	23095	1RB#8	19.6	14.15	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	19.62	14.17	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	19.51	14.06	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	19.68	14.23	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	19.65	14.2	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	19.67	14.22	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	19.62	14.17	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.51	19.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.54	19.09	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.51	19.06	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.57	18.12	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.67	19.22	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.57	19.12	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.57	19.12	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.59	18.14	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.67	19.22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.46	19.01	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.42	18.97	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.57	18.12	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.63	18.18	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.52	18.07	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.62	18.17	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.6	17.15	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.63	18.18	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.71	18.26	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.68	18.23	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.63	17.18	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.79	18.34	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.63	18.18	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.65	18.2	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.59	17.14	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.71	17.26	34.77	PASS



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Band12	5MHz	64QAM	23035	1RB#12	22.73	17.28	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.78	17.33	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.6	16.15	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.75	17.3	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.76	17.31	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.7	17.25	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.52	16.07	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.71	17.26	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.64	17.19	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.74	17.29	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.5	16.05	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	19.69	14.24	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	19.63	14.18	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	19.69	14.24	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	19.62	14.17	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	19.72	14.27	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	19.74	14.29	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	19.67	14.22	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	19.62	14.17	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	19.77	14.32	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	19.66	14.21	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	19.67	14.22	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	19.57	14.12	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.54	19.09	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.57	19.12	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.56	19.11	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.64	18.19	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.7	19.25	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.64	19.19	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.42	18.97	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.6	18.15	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.63	19.18	34.77	PASS



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Band12	10MHz	QPSK	23130	1RB#24	24.57	19.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.5	19.05	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.63	18.18	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.72	18.27	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.69	18.24	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.73	18.28	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.64	17.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.66	18.21	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.75	18.3	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.61	18.16	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.51	17.06	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.71	18.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.57	18.12	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.59	18.14	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.6	17.15	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.73	17.28	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.79	17.34	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.77	17.32	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.58	16.13	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.75	17.3	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.77	17.32	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.65	17.2	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.59	16.14	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.79	17.34	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.79	17.34	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.68	17.23	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.54	16.09	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	19.69	14.24	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	19.67	14.22	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	19.67	14.22	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	19.63	14.18	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	19.72	14.27	34.77	PASS



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Band12	10MHz	256QAM	23095	1RB#24	19.76	14.31	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	19.53	14.08	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	19.61	14.16	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	19.73	14.28	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	19.61	14.16	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	19.68	14.23	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	19.58	14.13	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	4.98	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.10	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.92	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.66	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.70	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.70	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.10	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.54	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.54	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.52	13	PASS



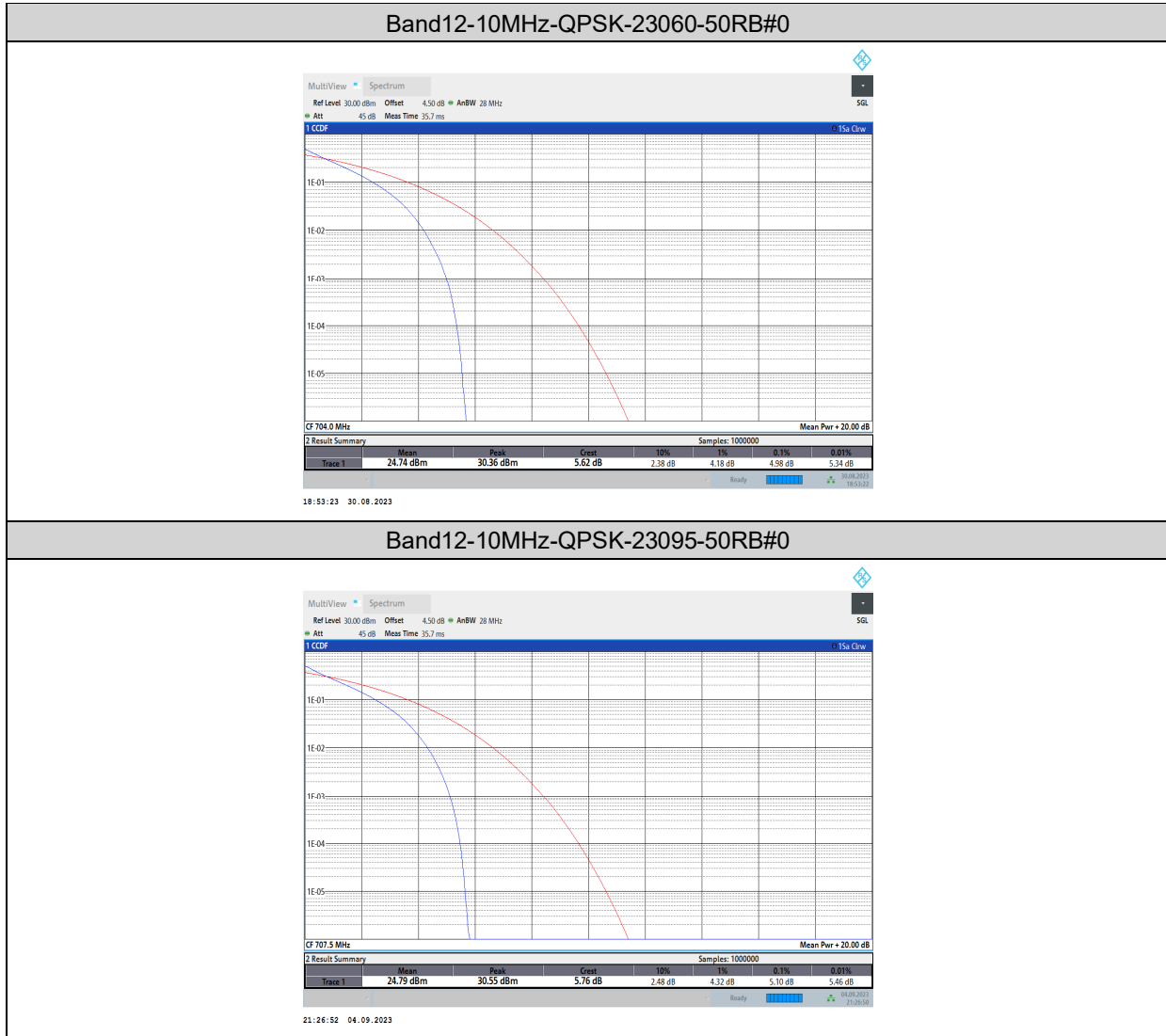
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Test Graphs

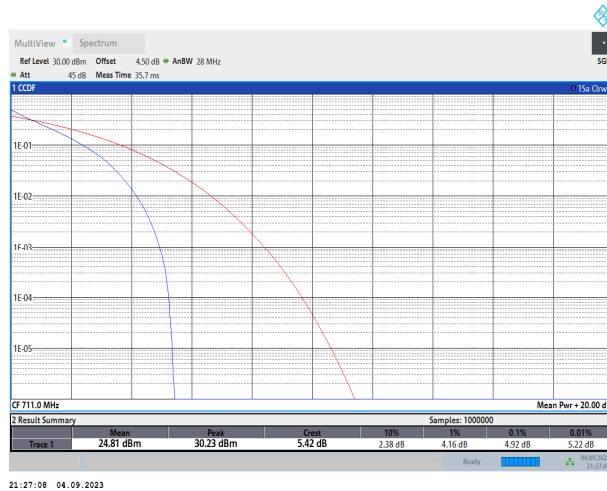


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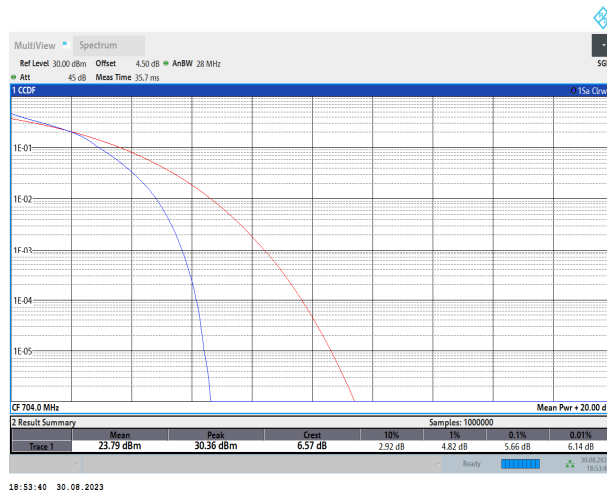
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Band12-10MHz-QPSK-23130-50RB#0



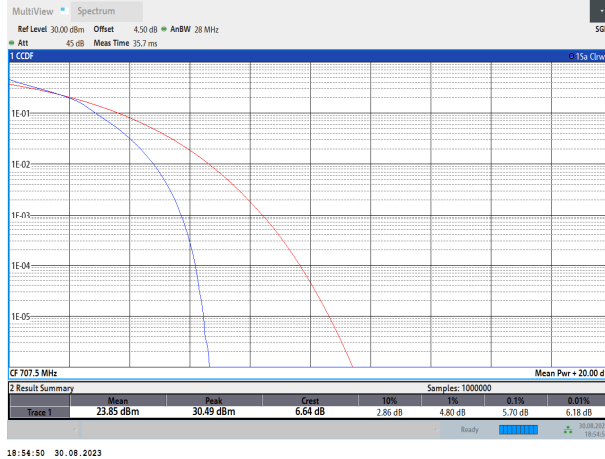
Band12-10MHz-16QAM-23060-50RB#0



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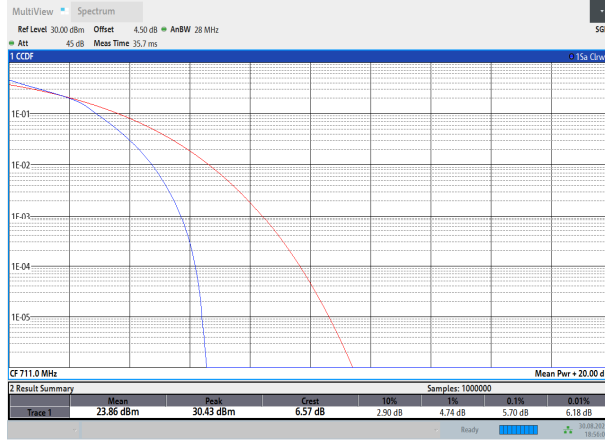
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Band12-10MHz-16QAM-23095-50RB#0



18:54:50 30.08.2023

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



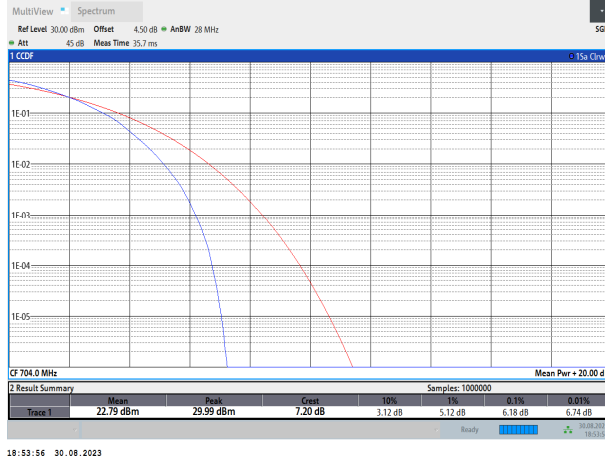
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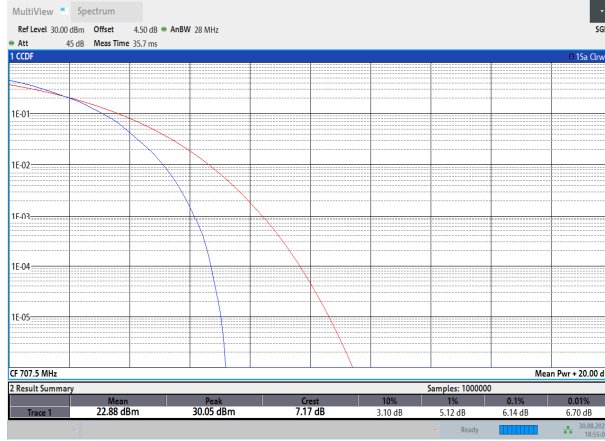
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Band12-10MHz-64QAM-23060-50RB#0



18:53:56 30.08.2023

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



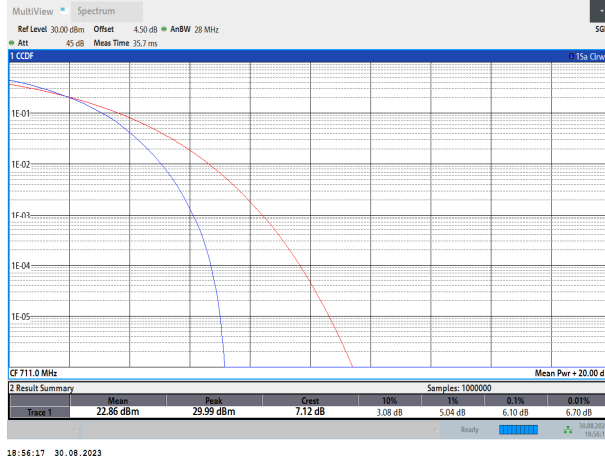
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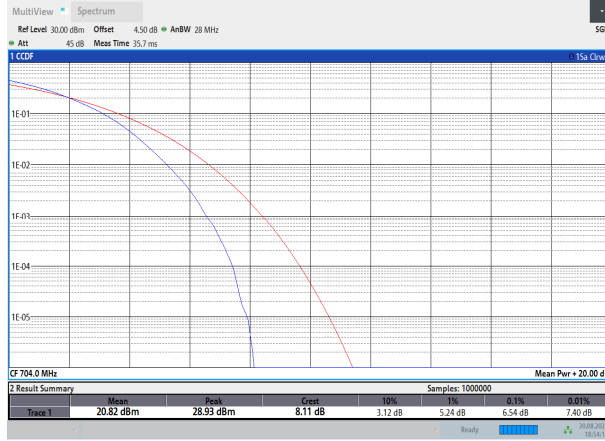
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Band12-10MHz-64QAM-23130-50RB#0



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



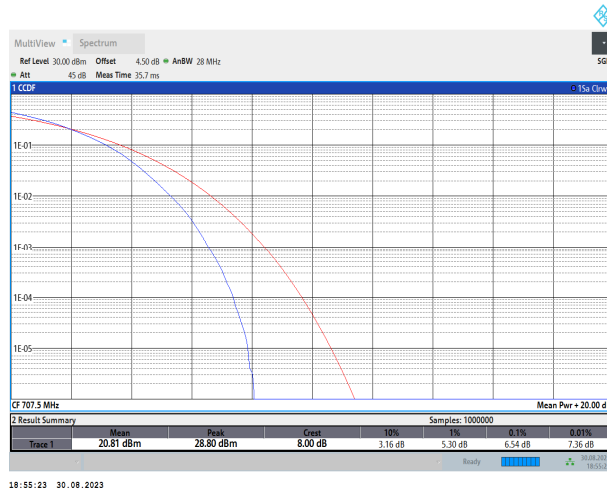
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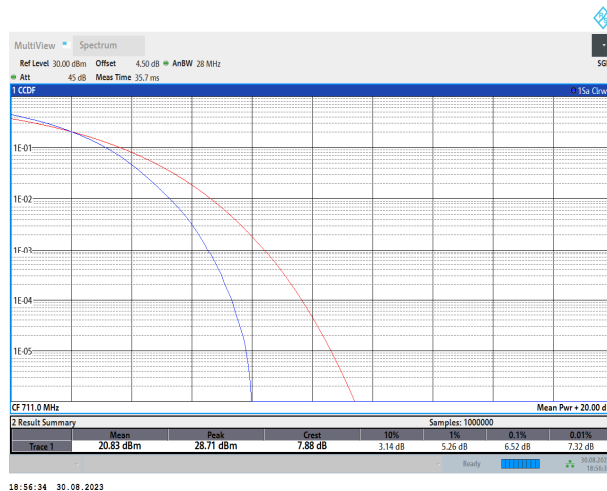
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Band12-10MHz-256QAM-23095-50RB#0



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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	1.096	1.29	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.087	1.29	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.694	2.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.69	2.94	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.689	2.92	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.689	2.94	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.465	4.86	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.469	5.00	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.473	4.86	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.47	4.84	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.938	9.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.931	9.70	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.943	9.70	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.936	9.62	PASS



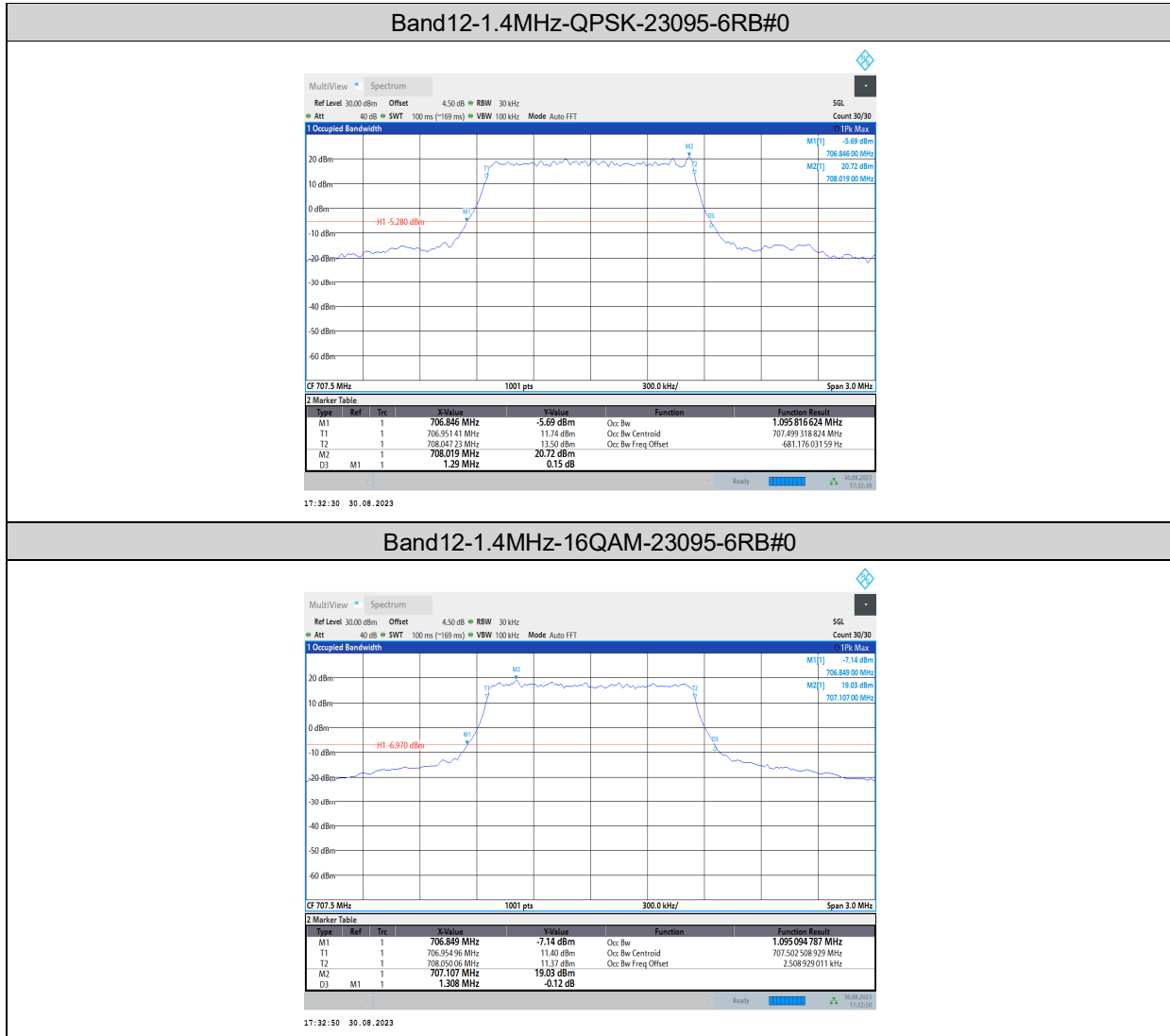
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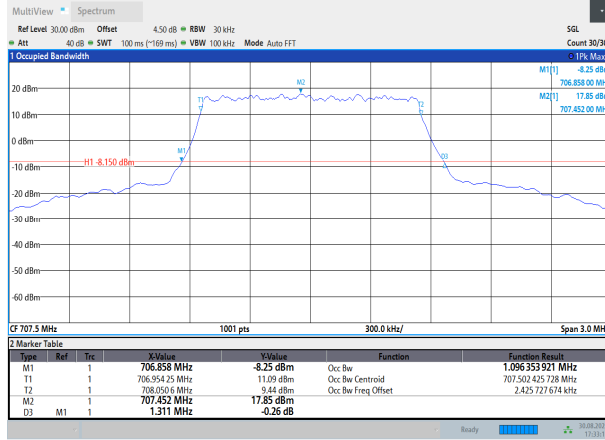
Test Graphs



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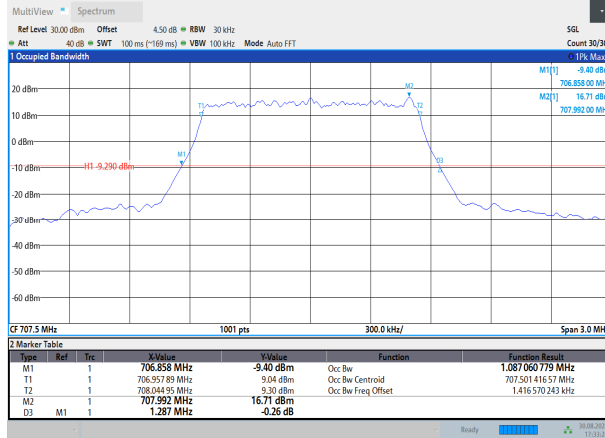
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Band12-1.4MHz-64QAM-23095-6RB#0



17:33:10 30.08.2023

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



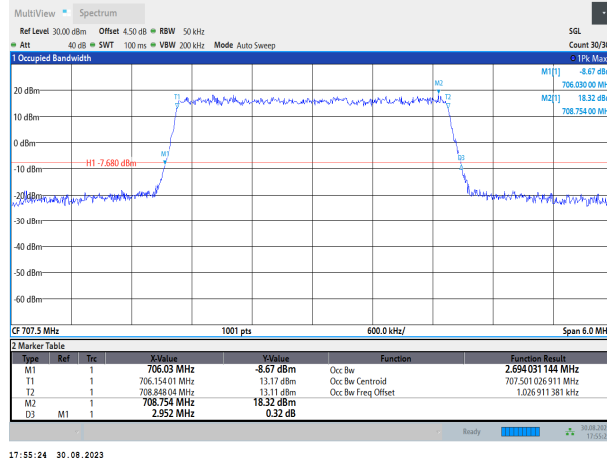
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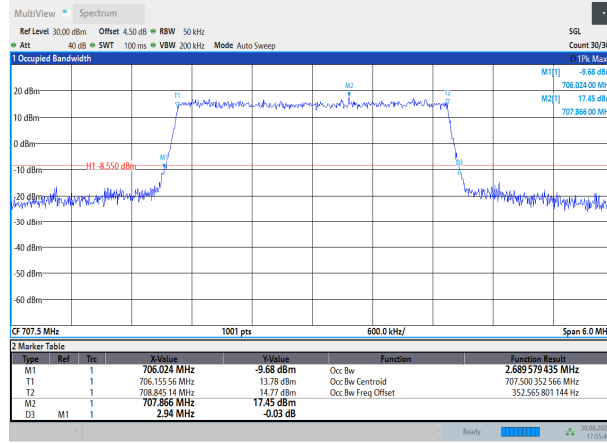
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Band12-3MHz-QPSK-23095-15RB#0



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



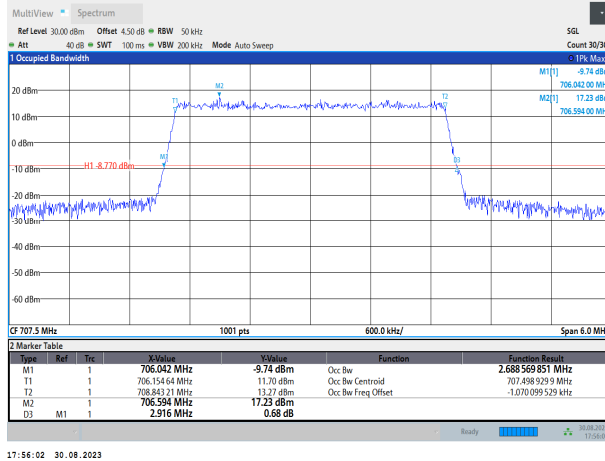
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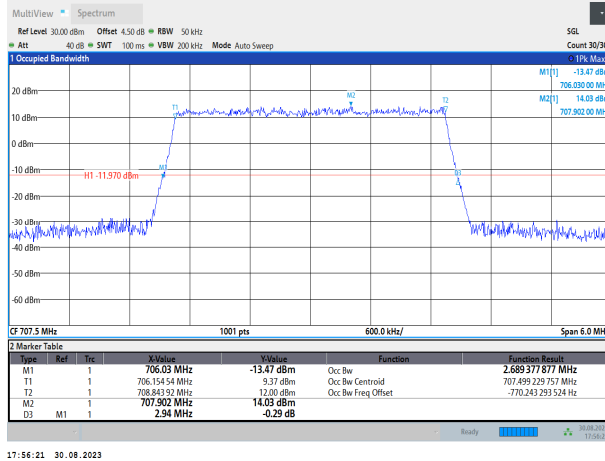
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Band12-3MHz-64QAM-23095-15RB#0



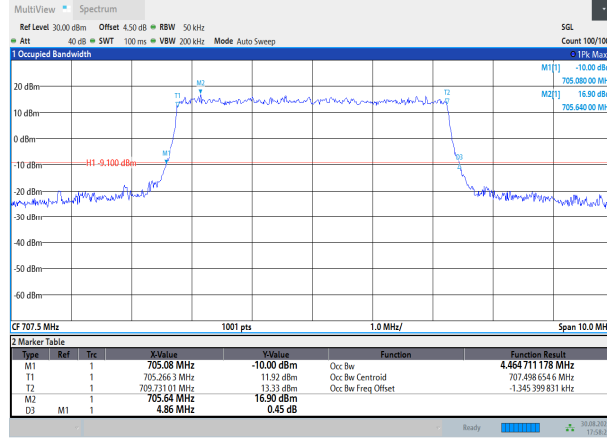
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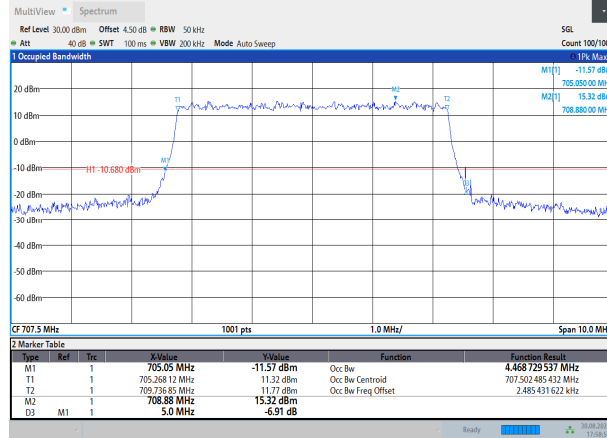
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Band12-5MHz-QPSK-23095-25RB#0



17:58:26 30.08.2023

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



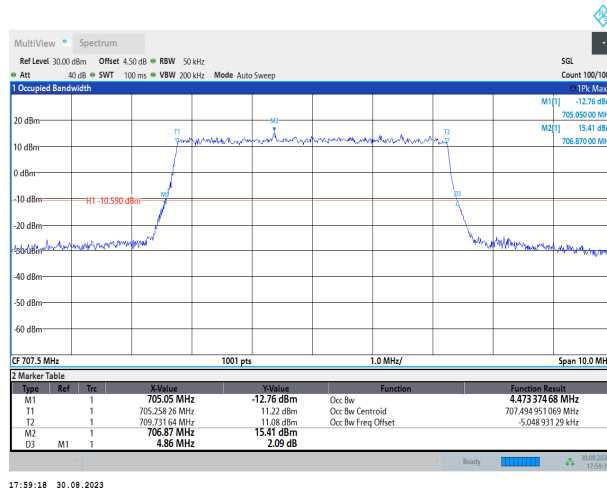
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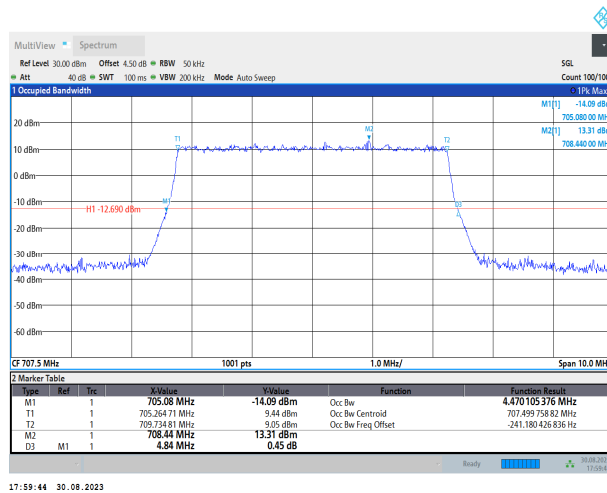
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Band12-5MHz-64QAM-23095-25RB#0



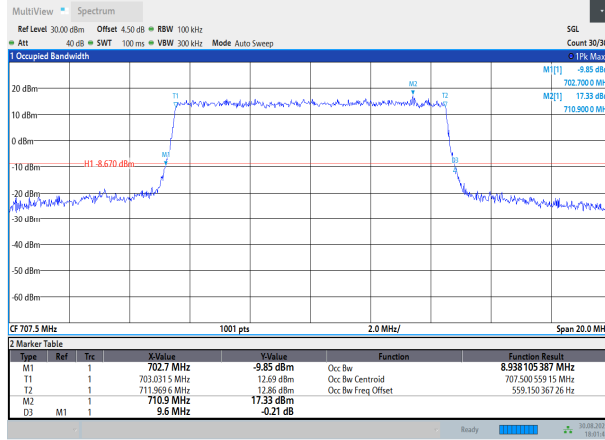
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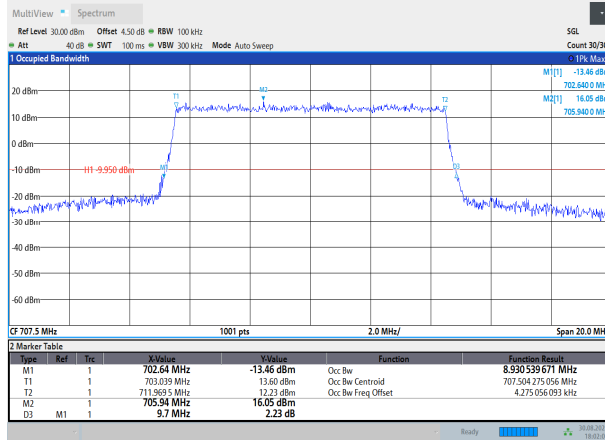
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Band12-10MHz-QPSK-23095-50RB#0



18:01:44 30.08.2023

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



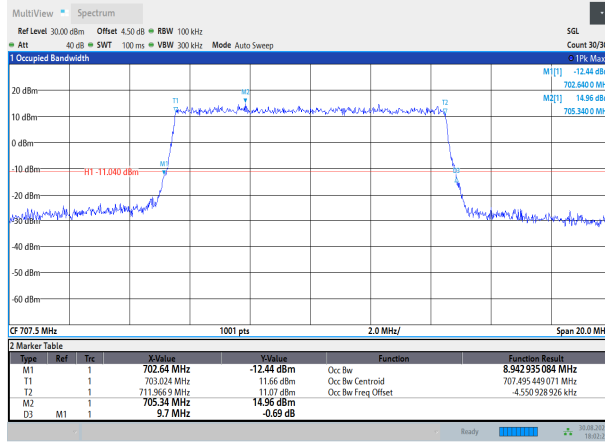
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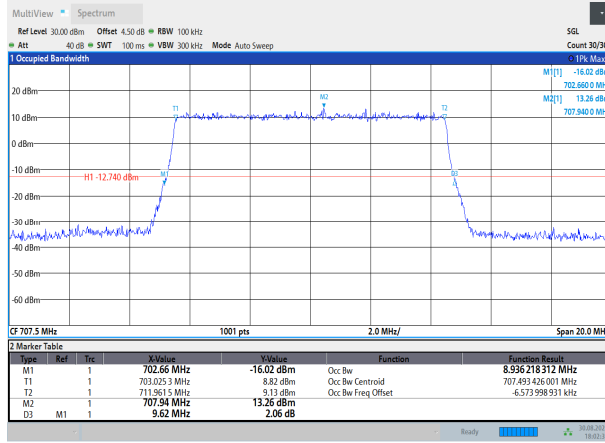
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Band12-10MHz-64QAM-23095-50RB#0



18:02:22 30.08.2023

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



18:02:40 30.08.2023

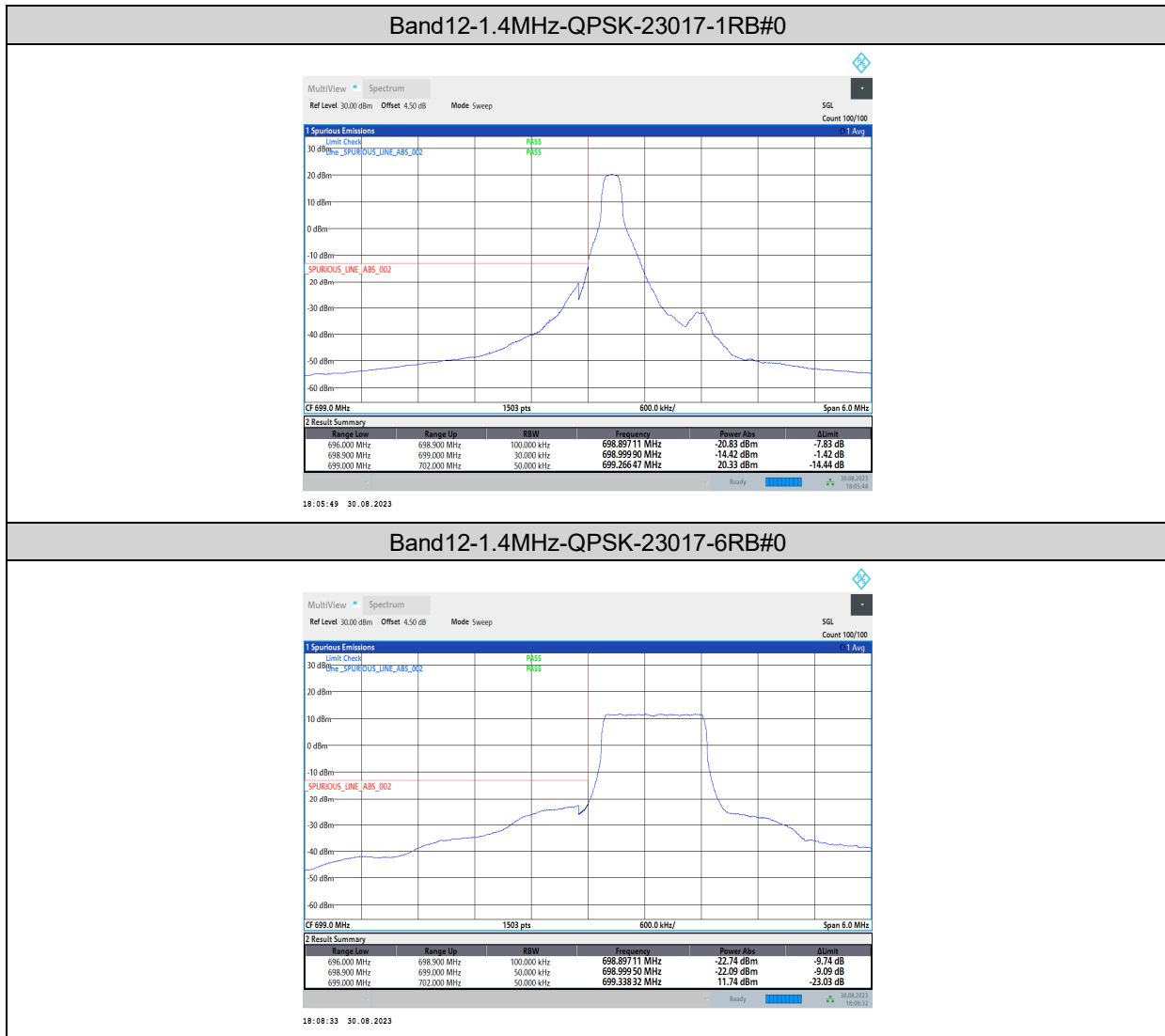


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Band Edge

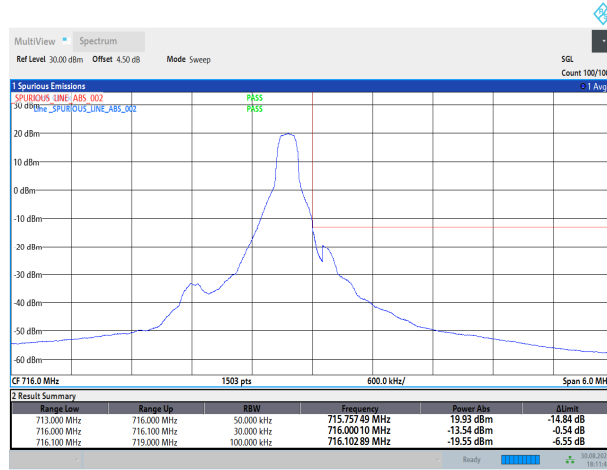
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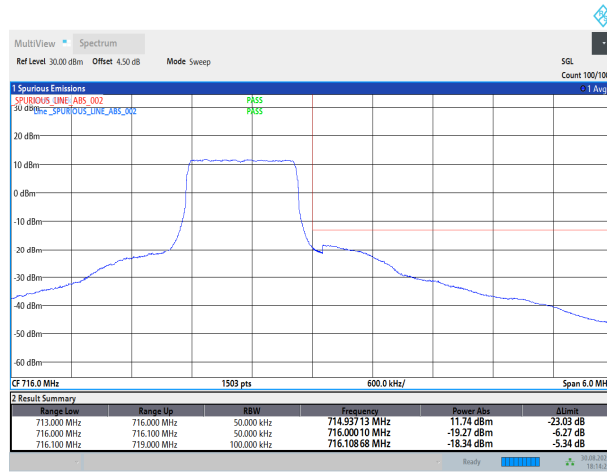
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Band12-1.4MHz-QPSK-23173-1RB#5



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



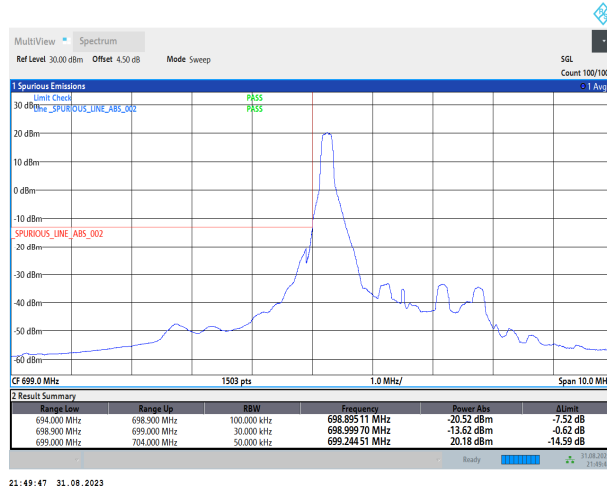
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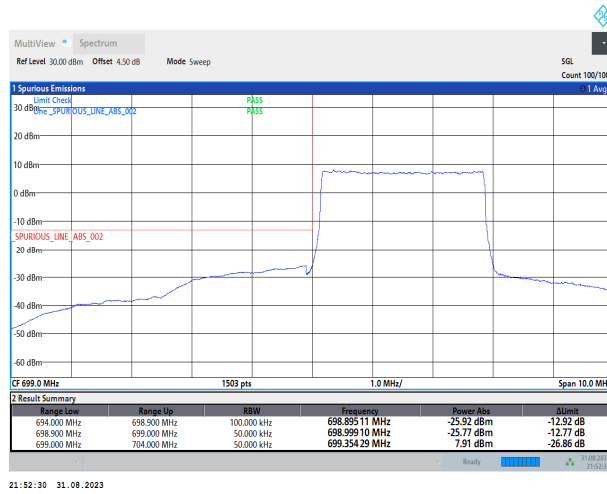
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Band12-3MHz-QPSK-23025-1RB#0



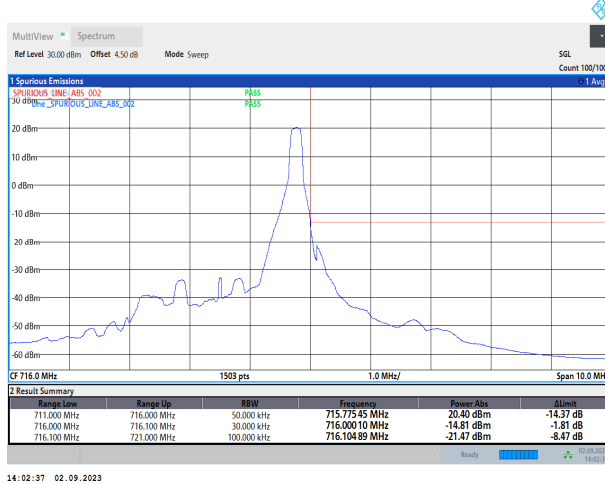
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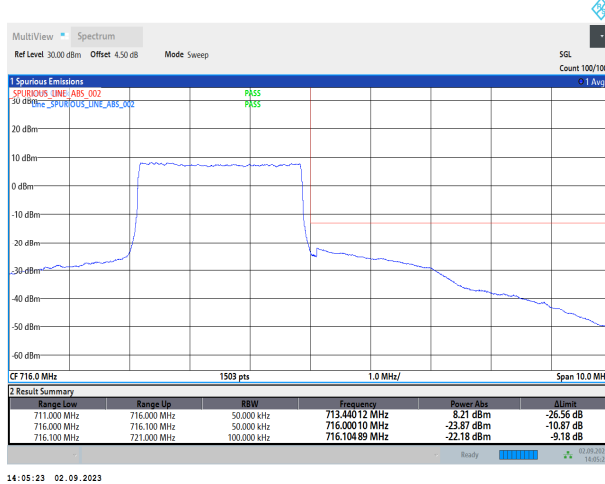
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Band12-3MHz-QPSK-23165-1RB#14



14:02:37 02.09.2023

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



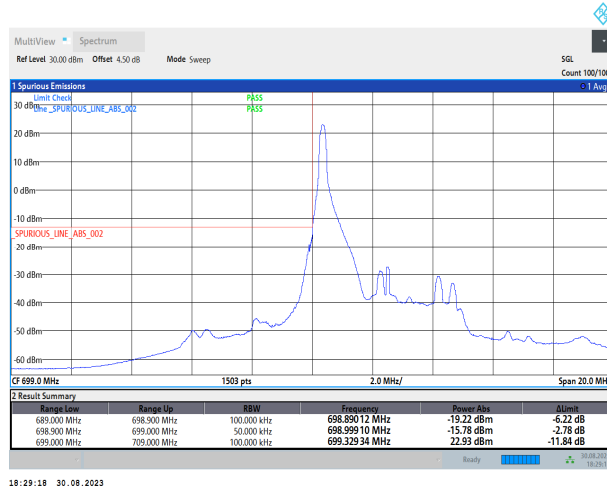
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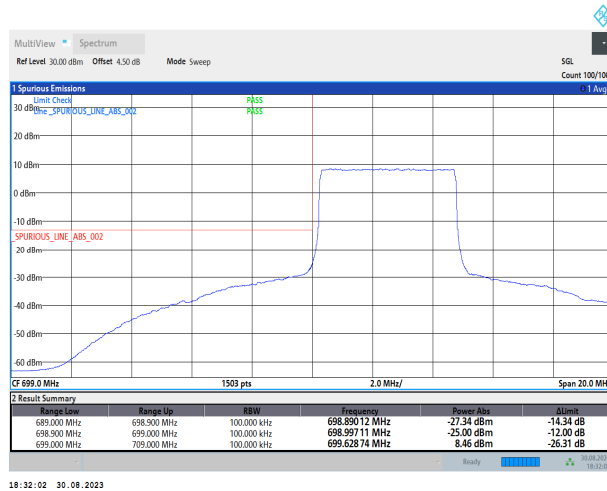
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Band12-5MHz-QPSK-23035-1RB#0



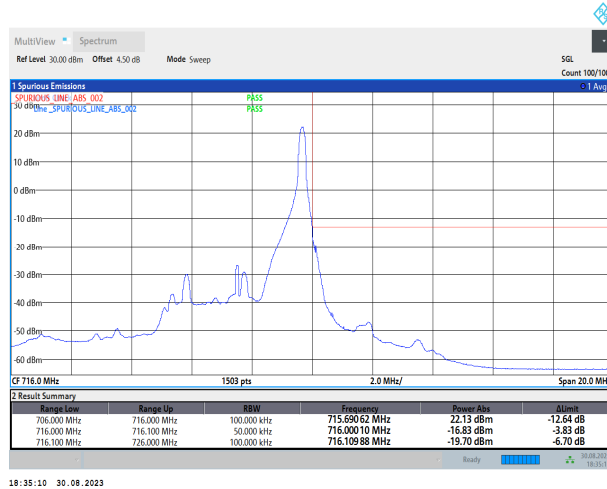
Band12-5MHz-QPSK-23035-25RB#0



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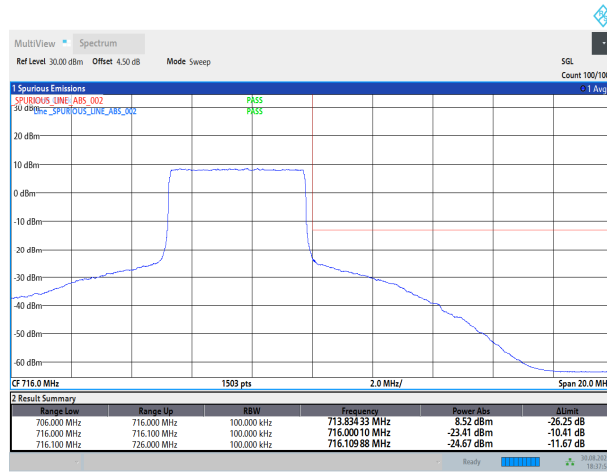
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Band12-5MHz-QPSK-23155-1RB#24



18:35:10 30.08.2023

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



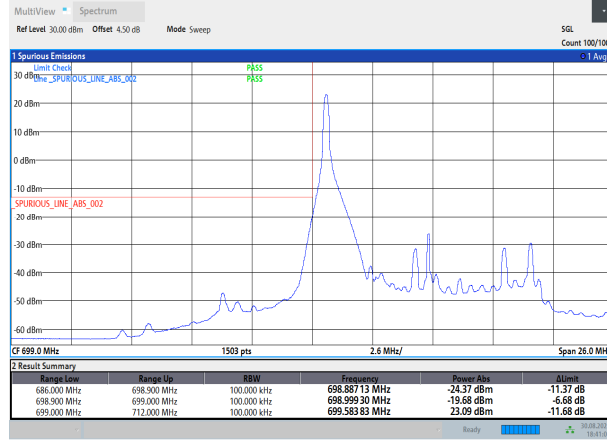
18:37:54 30.08.2023



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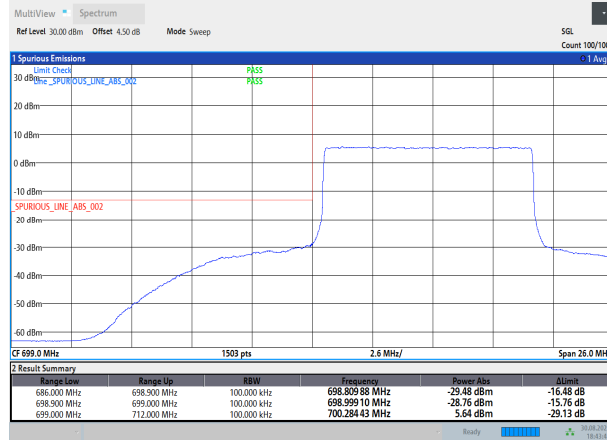
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Band12-10MHz-QPSK-23060-1RB#0



18:41:03 30.08.2023

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



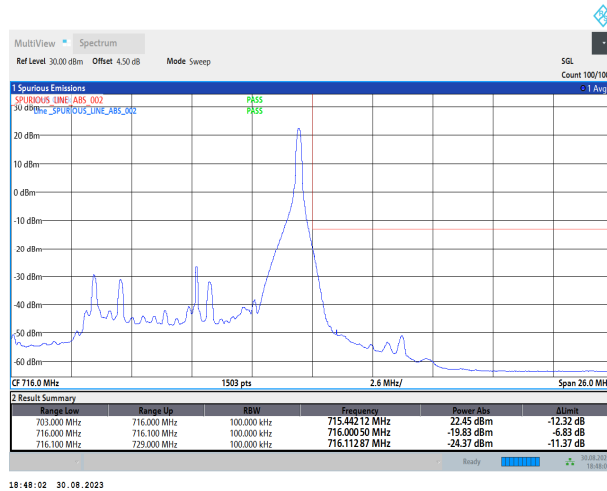
18:43:46 30.08.2023



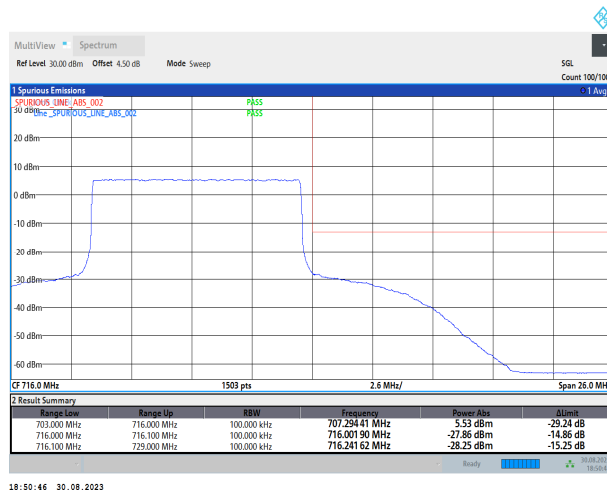
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Band12-10MHz-QPSK-23130-1RB#49



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

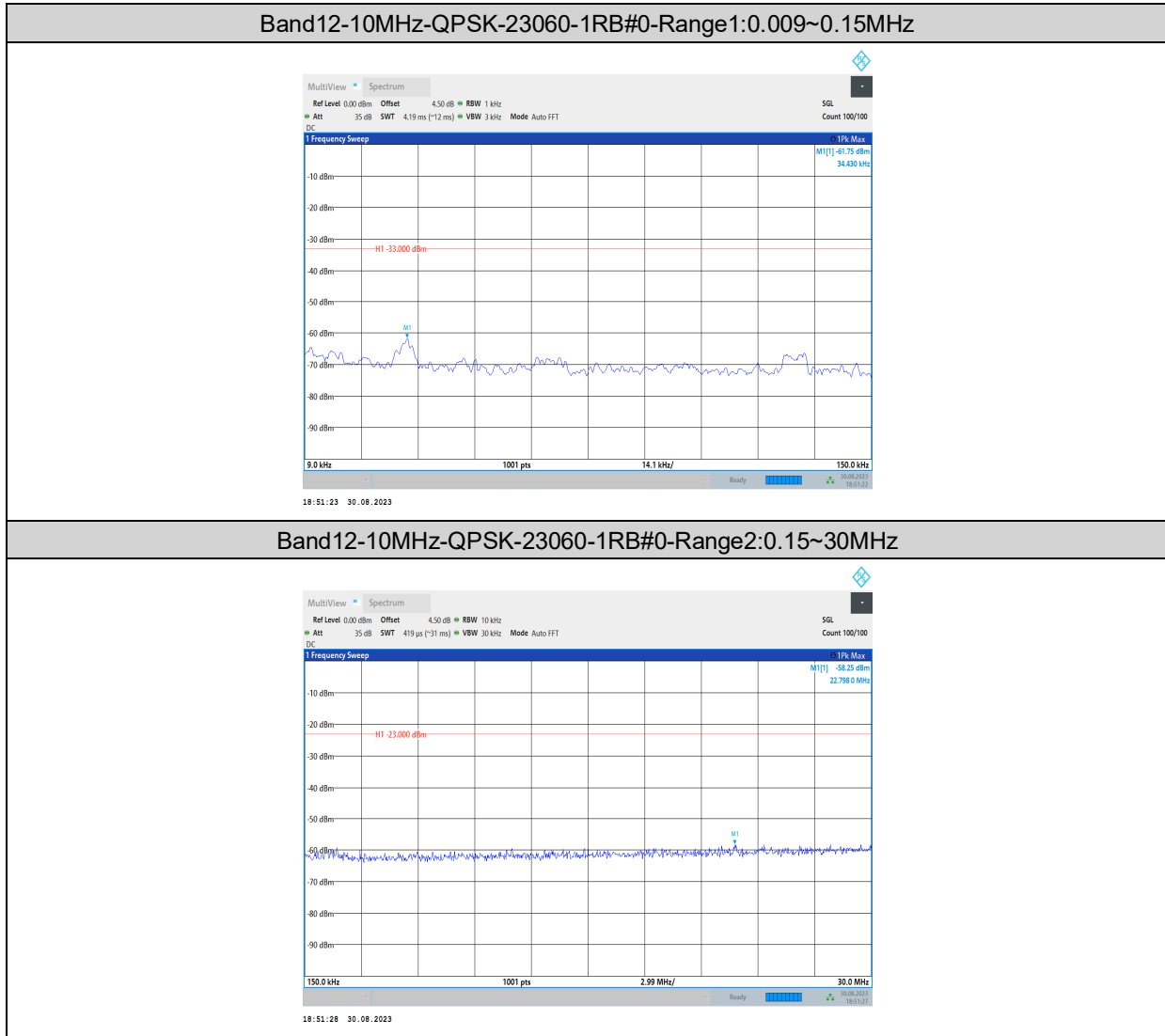


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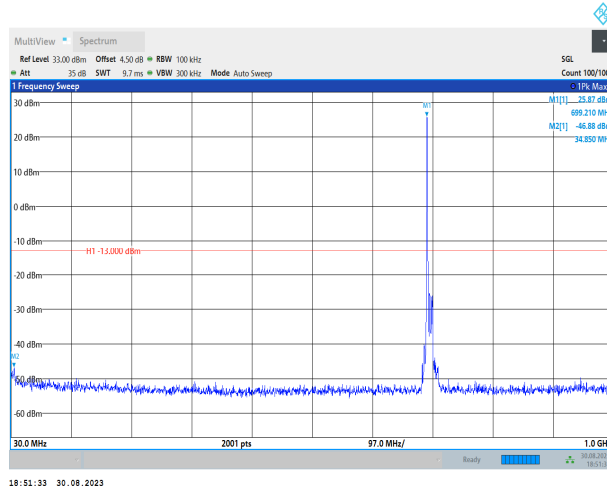
Conducted Spurious Emission

Test Graphs

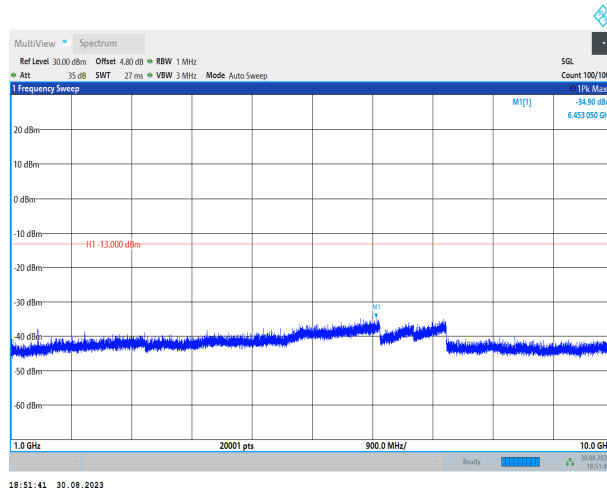


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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



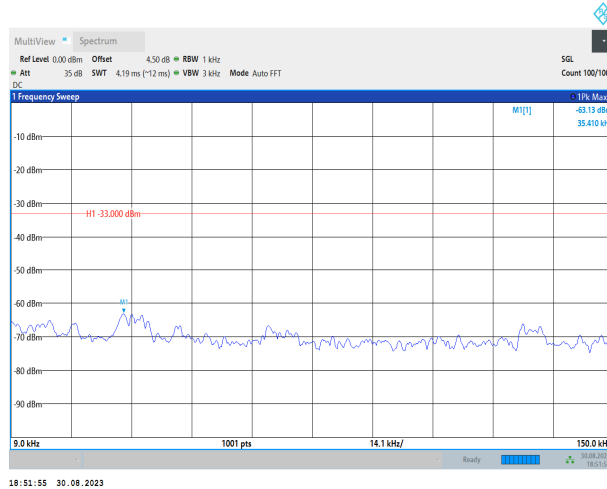
Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



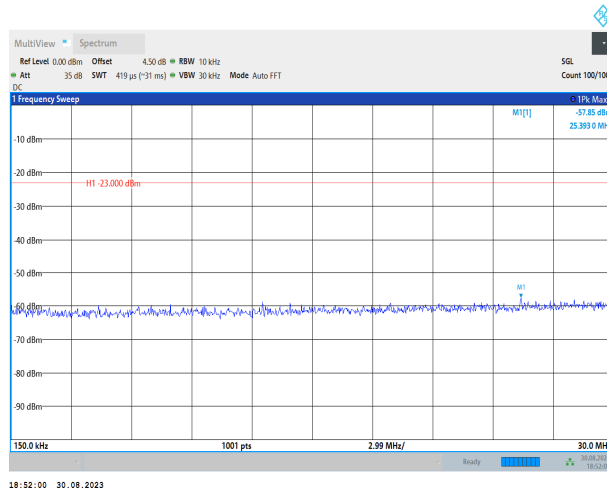
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



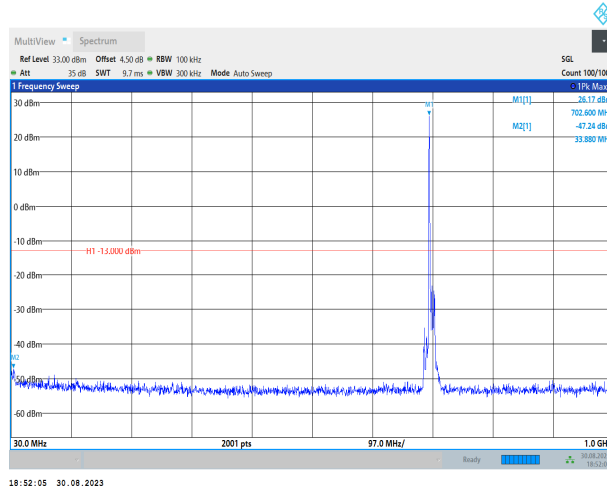
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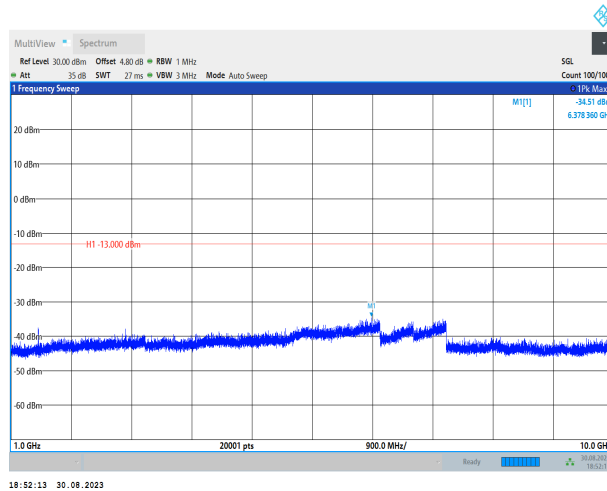
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



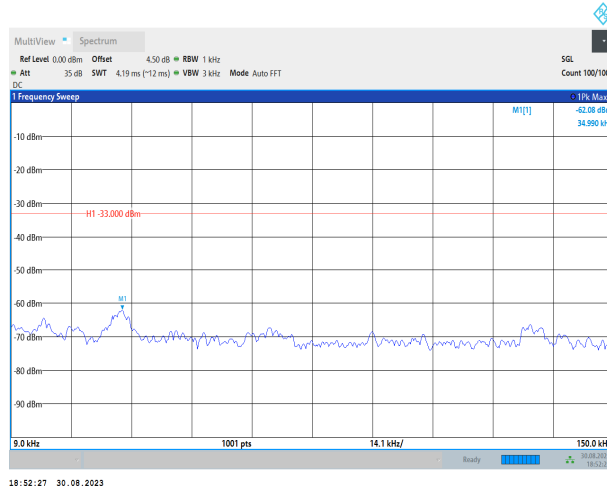
Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



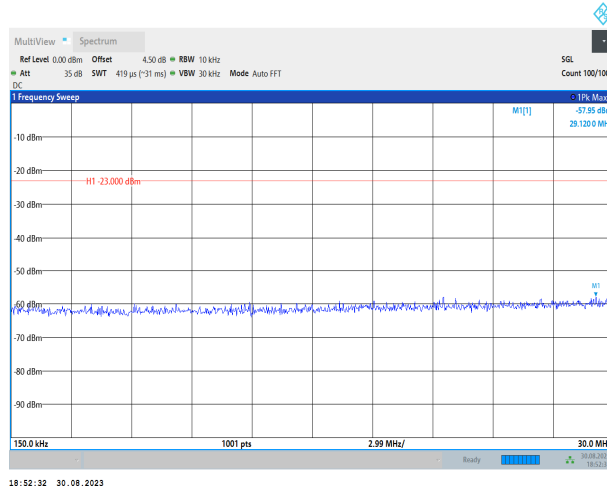
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz

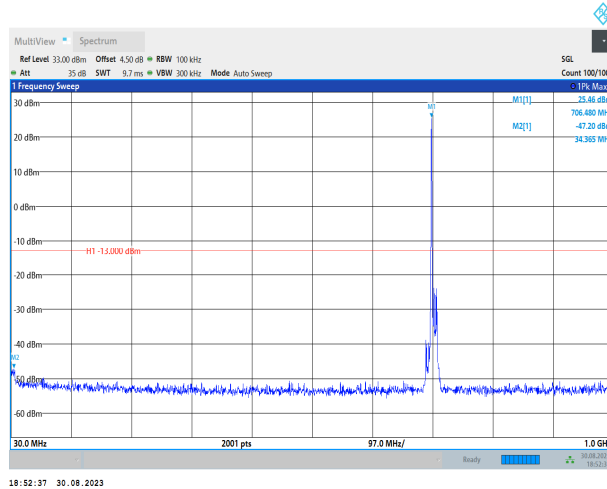


Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz

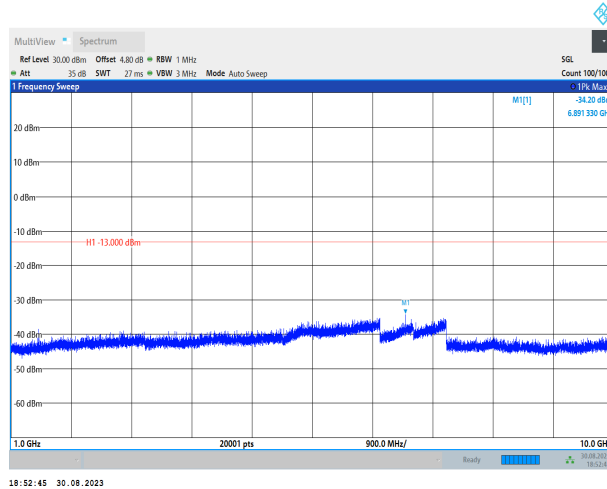


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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	44.83	-48.00	25.10	-73.33	-13.00	60.33	Horizontal
2	2098.7700	43.10	-47.71	26.18	-73.70	-13.00	60.70	Horizontal
3	2798.3600	43.07	-46.92	27.90	-71.21	-13.00	58.21	Horizontal
4	3497.9500	42.56	-46.54	28.60	-70.64	-13.00	57.64	Horizontal
5	4197.5400	41.64	-45.96	29.57	-70.00	-13.00	57.00	Horizontal
6	4897.1300	41.78	-45.58	31.17	-67.89	-13.00	54.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	44.56	-48.00	25.10	-73.60	-13.00	60.60	Vertical
2	2098.7700	43.75	-47.71	26.18	-73.05	-13.00	60.05	Vertical
3	2798.3600	43.12	-46.92	27.90	-71.16	-13.00	58.16	Vertical
4	3497.9500	43.21	-46.54	28.60	-69.99	-13.00	56.99	Vertical
5	4197.5400	41.82	-45.96	29.57	-69.82	-13.00	56.82	Vertical
6	4897.1300	42.30	-45.58	31.17	-67.37	-13.00	54.37	Vertical



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Test Band = LTE Band12_10MHz_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	61.30	-48.02	25.10	-56.88	-13.00	43.88	Horizontal
2	2109.2700	43.90	-47.71	26.21	-72.86	-13.00	59.86	Horizontal
3	2812.3600	44.43	-46.88	27.93	-69.78	-13.00	56.78	Horizontal
4	3515.4500	42.80	-46.51	28.62	-70.35	-13.00	57.35	Horizontal
5	4218.5400	41.84	-45.93	29.63	-69.72	-13.00	56.72	Horizontal
6	4921.6300	42.48	-45.63	31.23	-67.18	-13.00	54.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	55.96	-48.02	25.10	-62.22	-13.00	49.22	Vertical
2	2109.2700	43.98	-47.71	26.21	-72.78	-13.00	59.78	Vertical
3	2812.3600	44.77	-46.88	27.93	-69.44	-13.00	56.44	Vertical
4	3515.4500	42.70	-46.51	28.62	-70.45	-13.00	57.45	Vertical
5	4218.5400	41.65	-45.93	29.63	-69.91	-13.00	56.91	Vertical
6	4921.6300	42.55	-45.63	31.23	-67.11	-13.00	54.11	Vertical



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Test Band = LTE Band12_10MHz_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.85	-48.04	25.11	-73.35	-13.00	60.35	Horizontal
2	2119.7700	43.56	-47.70	26.24	-73.17	-13.00	60.17	Horizontal
3	2826.3600	43.58	-46.83	27.95	-70.55	-13.00	57.55	Horizontal
4	3532.9500	42.55	-46.47	28.63	-70.55	-13.00	57.55	Horizontal
5	4239.5400	42.41	-45.89	29.68	-69.06	-13.00	56.06	Horizontal
6	4946.1300	41.87	-45.69	31.28	-67.79	-13.00	54.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.56	-48.04	25.11	-73.64	-13.00	60.64	Vertical
2	2119.7700	43.48	-47.70	26.24	-73.25	-13.00	60.25	Vertical
3	2826.3600	43.19	-46.83	27.95	-70.94	-13.00	57.94	Vertical
4	3532.9500	42.86	-46.47	28.63	-70.24	-13.00	57.24	Vertical
5	4239.5400	42.07	-45.89	29.68	-69.40	-13.00	56.40	Vertical
6	4946.1300	42.18	-45.69	31.28	-67.48	-13.00	54.48	Vertical



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Test Band = LTE 12A_66A_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	41.90	-45.59	28.30	-70.65	-13.00	57.65	Horizontal
2	2098.7700	41.90	-45.59	28.30	-70.65	-13.00	57.65	Horizontal
3	2798.3600	41.90	-45.59	28.30	-70.65	-13.00	57.65	Horizontal
4	3404.1800	41.49	-46.28	28.54	-71.51	-13.00	58.51	Horizontal
5	5106.2700	38.50	-45.36	31.66	-70.47	-13.00	57.47	Horizontal
6	6808.3600	39.61	-44.16	34.86	-64.96	-13.00	51.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	41.50	-45.59	28.30	-71.05	-13.00	58.05	Vertical
2	2098.7700	41.50	-45.59	28.30	-71.05	-13.00	58.05	Vertical
3	2798.3600	41.50	-45.59	28.30	-71.05	-13.00	58.05	Vertical
4	3404.1800	41.54	-46.28	28.54	-71.46	-13.00	58.46	Vertical
5	5106.2700	39.14	-45.36	31.66	-69.83	-13.00	56.83	Vertical
6	6808.3600	38.84	-44.16	34.86	-65.73	-13.00	52.73	Vertical



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Test Band = LTE 12A_66A_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	41.58	-45.59	28.30	-70.97	-13.00	57.97	Horizontal
2	2109.2700	41.58	-45.59	28.30	-70.97	-13.00	57.97	Horizontal
3	2812.3600	41.58	-45.59	28.30	-70.97	-13.00	57.97	Horizontal
4	3454.1800	41.34	-46.27	28.57	-71.62	-13.00	58.62	Horizontal
5	5181.2700	38.79	-45.30	31.84	-69.93	-13.00	56.93	Horizontal
6	6908.3600	38.31	-44.05	35.04	-65.96	-13.00	52.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	41.38	-45.59	28.30	-71.17	-13.00	58.17	Vertical
2	2109.2700	41.38	-45.59	28.30	-71.17	-13.00	58.17	Vertical
3	2812.3600	41.38	-45.59	28.30	-71.17	-13.00	58.17	Vertical
4	3454.1800	41.27	-46.27	28.57	-71.69	-13.00	58.69	Vertical
5	5181.2700	39.68	-45.30	31.84	-69.04	-13.00	56.04	Vertical
6	6908.3600	38.39	-44.05	35.04	-65.88	-13.00	52.88	Vertical



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Test Band = LTE 12A_66A_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	41.76	-45.59	28.30	-70.79	-13.00	57.79	Horizontal
2	2119.7700	41.76	-45.59	28.30	-70.79	-13.00	57.79	Horizontal
3	2826.3600	41.76	-45.59	28.30	-70.79	-13.00	57.79	Horizontal
4	3504.1800	41.17	-46.25	28.60	-71.74	-13.00	58.74	Horizontal
5	5256.2700	38.91	-45.17	32.02	-69.51	-13.00	56.51	Horizontal
6	7008.3600	38.25	-43.61	35.22	-65.39	-13.00	52.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	41.77	-45.59	28.30	-70.78	-13.00	57.78	Vertical
2	2119.7700	41.77	-45.59	28.30	-70.78	-13.00	57.78	Vertical
3	2826.3600	41.77	-45.59	28.30	-70.78	-13.00	57.78	Vertical
4	3504.1800	41.75	-46.25	28.60	-71.16	-13.00	58.16	Vertical
5	5256.2700	39.71	-45.17	32.02	-68.71	-13.00	55.71	Vertical
6	7008.3600	38.61	-43.61	35.22	-65.03	-13.00	52.03	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.70	0.000989	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.40	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.00	-0.002827	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.90	0.001272	PASS

---End of Attachment---



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