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Appendix B.6

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.13	19.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.34	19.49	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.28	19.43	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.38	18.53	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.37	19.52	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.52	19.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.35	19.5	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.51	18.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.42	19.57	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.53	19.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.35	19.5	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.49	18.64	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.45	18.6	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.69	18.84	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.57	18.72	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.46	17.61	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.61	18.76	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.80	18.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.62	18.77	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.60	17.75	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.62	18.77	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.74	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.59	18.74	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.59	17.74	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.14	17.29	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.27	17.42	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.23	17.38	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.03	16.18	34.77	PASS



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Band12	1.4MHz	64QAM	23095	1RB#0	21.26	17.41	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.47	17.62	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.31	17.46	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.26	16.41	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.37	17.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.41	17.56	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.35	17.5	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.27	16.42	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.11	19.26	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.31	19.46	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.34	19.49	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.38	18.53	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.39	19.54	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.33	19.48	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.32	19.47	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.42	18.57	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.38	19.53	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.38	19.53	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.35	19.5	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.40	18.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.40	18.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.67	18.82	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.68	18.83	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.39	17.54	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.69	18.84	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.60	18.75	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.61	18.76	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.43	17.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.56	18.71	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.67	18.82	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.49	18.64	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.47	17.62	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.05	17.2	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.30	17.45	34.77	PASS



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Band12	3MHz	64QAM	23025	1RB#14	21.29	17.44	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.09	16.24	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.25	17.4	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.34	17.49	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.30	17.45	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.17	16.32	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.37	17.52	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.40	17.55	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.34	17.49	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.22	16.37	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.07	19.22	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.53	19.68	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.24	19.39	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.39	18.54	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.30	19.45	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.51	19.66	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.18	19.33	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.38	18.53	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.22	19.37	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.52	19.67	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.22	19.37	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.41	18.56	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.40	18.55	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.89	19.04	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.49	18.64	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.41	17.56	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.58	18.73	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.82	18.97	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.44	18.59	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.38	17.53	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.57	18.72	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.75	18.9	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.53	18.68	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.47	17.62	34.77	PASS



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Band12	5MHz	64QAM	23035	1RB#0	21.03	17.18	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.48	17.63	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.16	17.31	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.10	16.25	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.20	17.35	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.48	17.63	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.16	17.31	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.18	16.33	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.21	17.36	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.46	17.61	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.25	17.4	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.24	16.39	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.19	19.34	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.46	19.61	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.31	19.46	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.51	18.66	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.33	19.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.48	19.63	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.29	19.44	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.43	18.58	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.38	19.53	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.40	19.55	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.32	19.47	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.45	18.6	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.47	18.62	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.72	18.87	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.64	18.79	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.51	17.66	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.71	18.86	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.73	18.88	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.48	18.63	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.43	17.58	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.63	18.78	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.75	18.9	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#49	22.50	18.65	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.49	17.64	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.14	17.29	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.40	17.55	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.24	17.39	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.21	16.36	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.28	17.43	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.45	17.6	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.29	17.44	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.24	16.39	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.35	17.5	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.45	17.6	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.29	17.44	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.29	16.44	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	5.26	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.18	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.98	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.98	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.92	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.40	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.36	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.38	13	PASS



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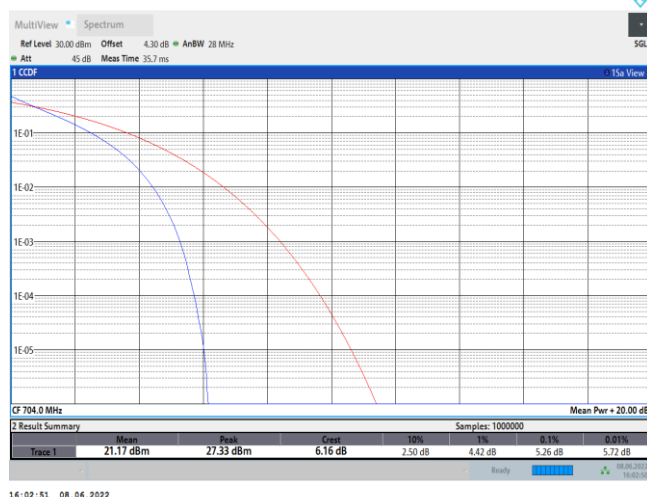
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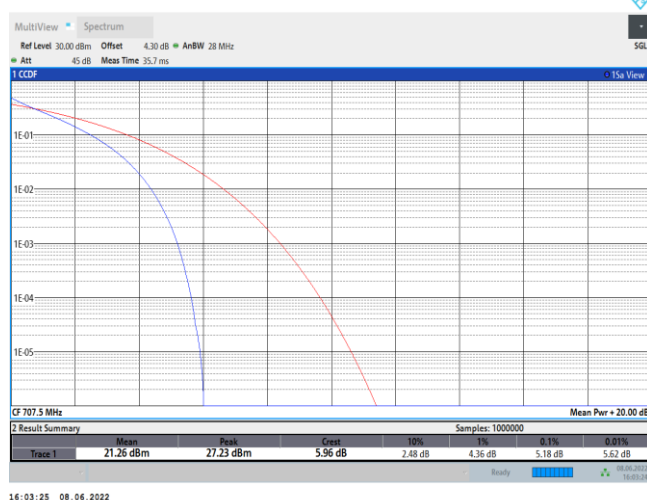
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Test Graphs

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



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



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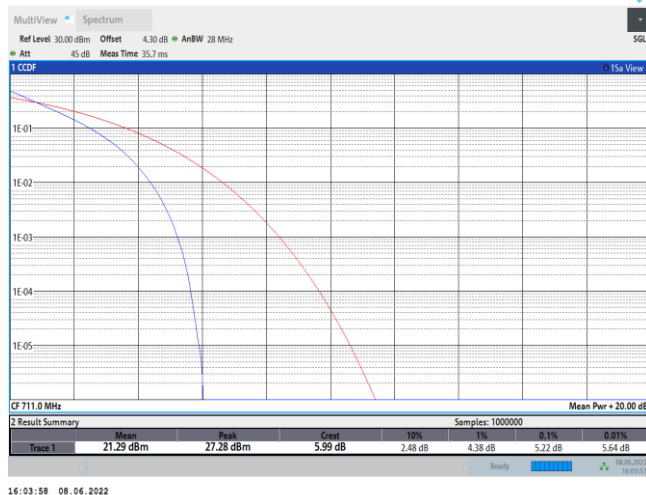
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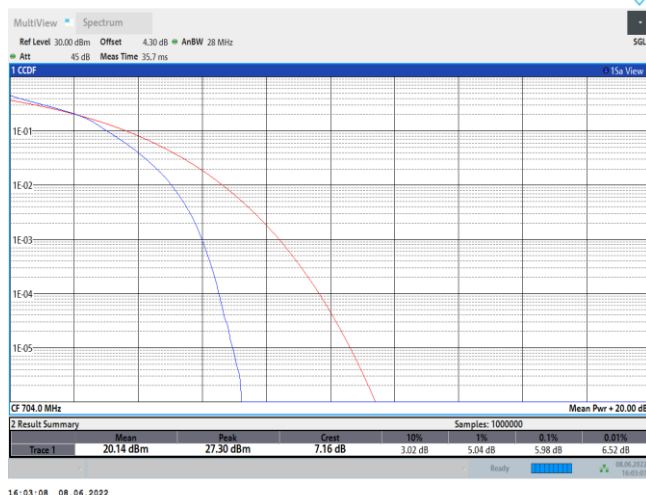
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Band12-10MHz-QPSK-23130-50RB#0



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



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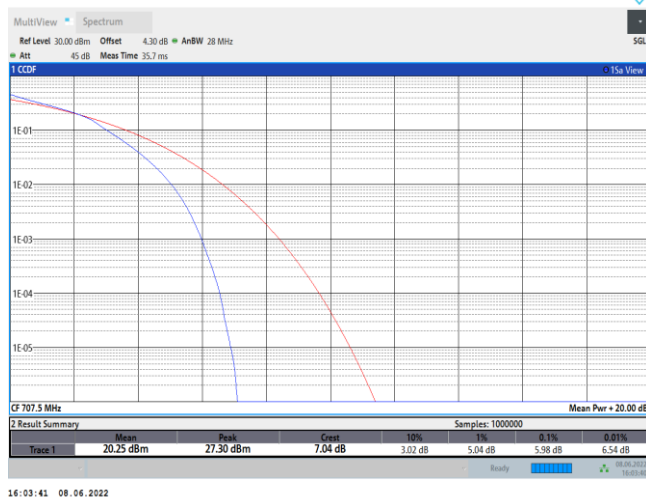
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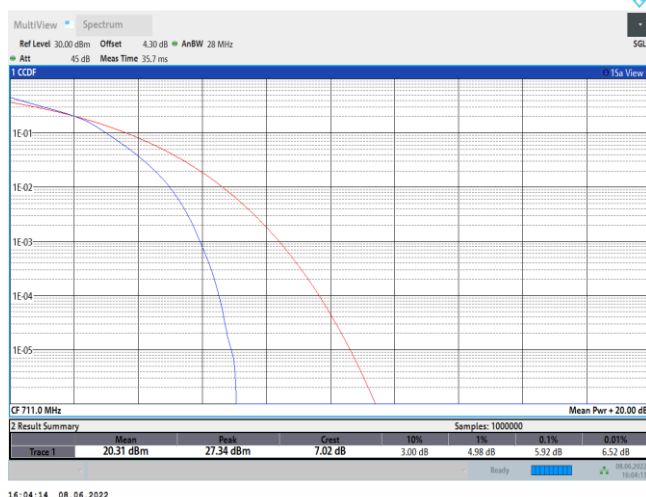
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Band12-10MHz-16QAM-23095-50RB#0



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

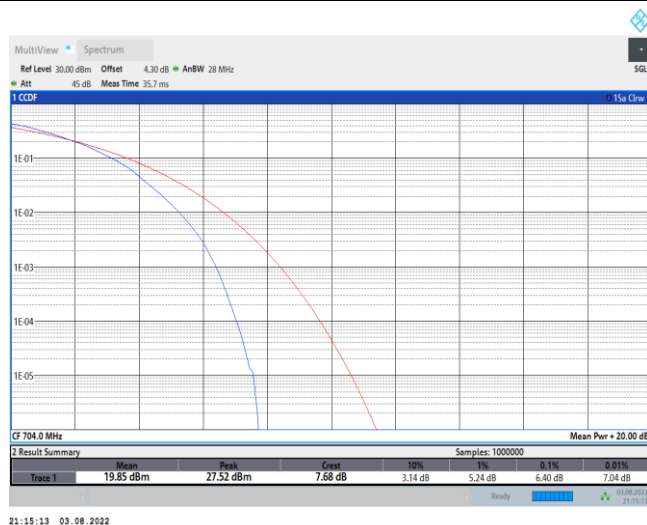


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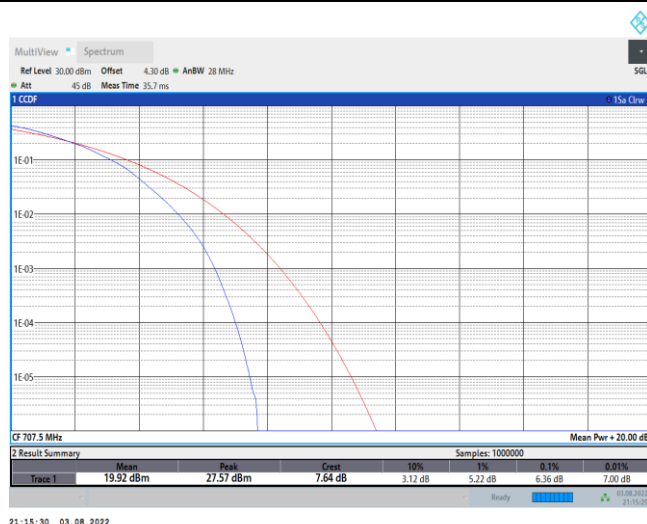
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Band12-10MHz-64QAM-23060-50RB#0



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



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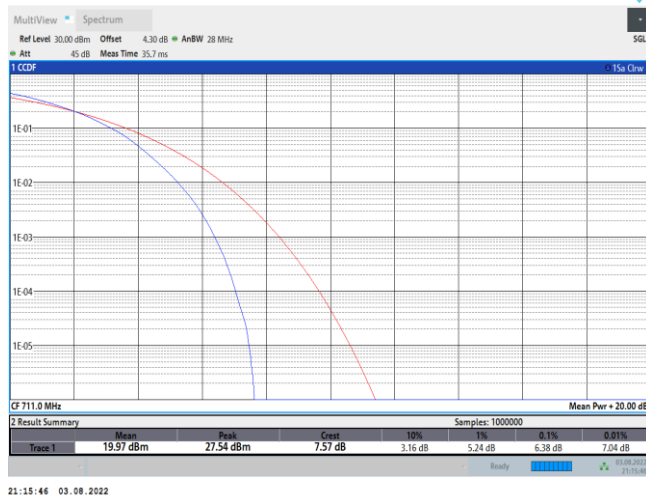
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Band12-10MHz-64QAM-23130-50RB#0



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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



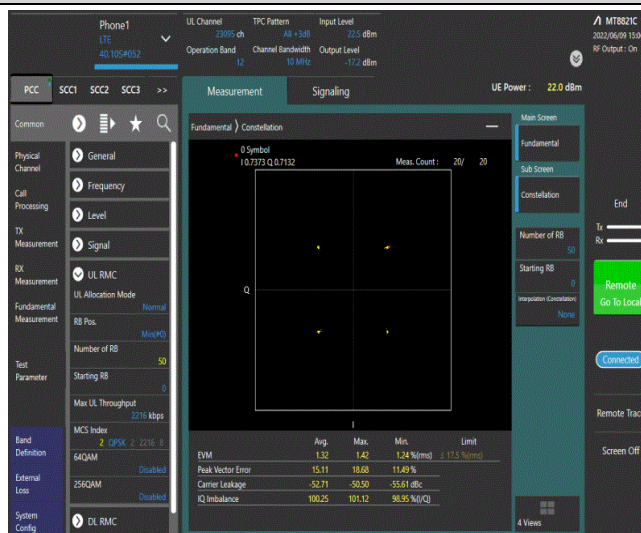
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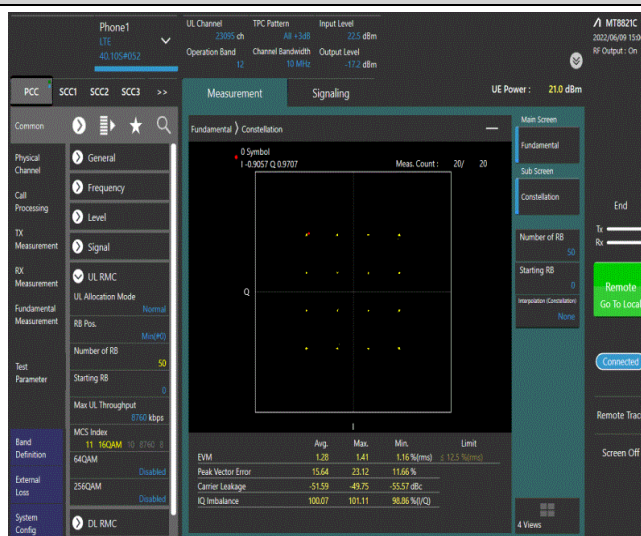
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Test Graphs

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



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



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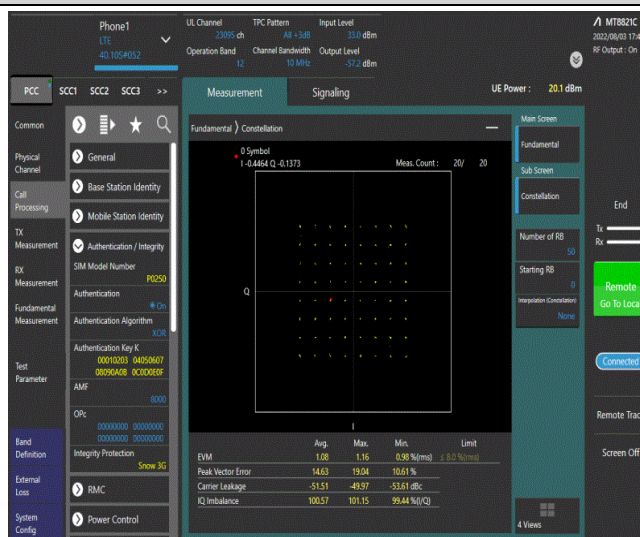
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Band12-10MHz-64QAM-23095-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.096	1.29	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.084	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.099	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.094	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.096	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.684	2.89	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.682	2.89	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.687	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.677	2.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.676	2.90	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.676	2.90	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.682	2.90	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.682	2.89	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.68	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.473	5.00	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.475	5.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.472	4.99	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.474	5.04	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.469	5.05	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.466	5.04	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.482	5.05	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.489	5.05	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.483	5.03	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.93	9.78	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.942	9.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.938	9.80	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.92	9.84	PASS



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Band12	10MHz	16QAM	23095	50RB#0	8.929	9.76	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.927	9.76	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.943	9.82	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.937	9.86	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.936	9.82	PASS



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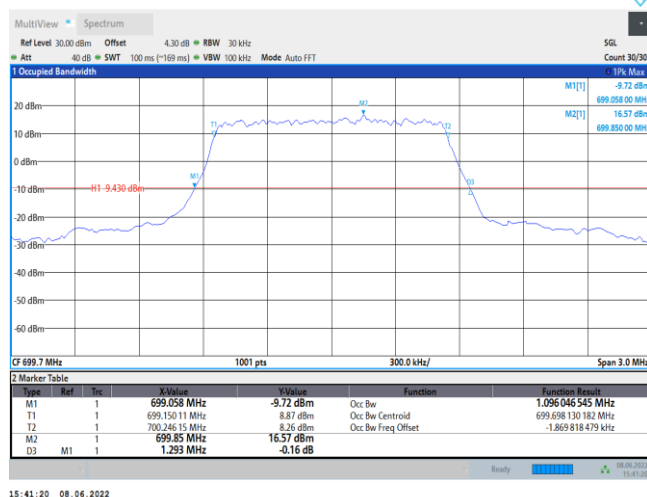
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Test Graphs

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



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



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



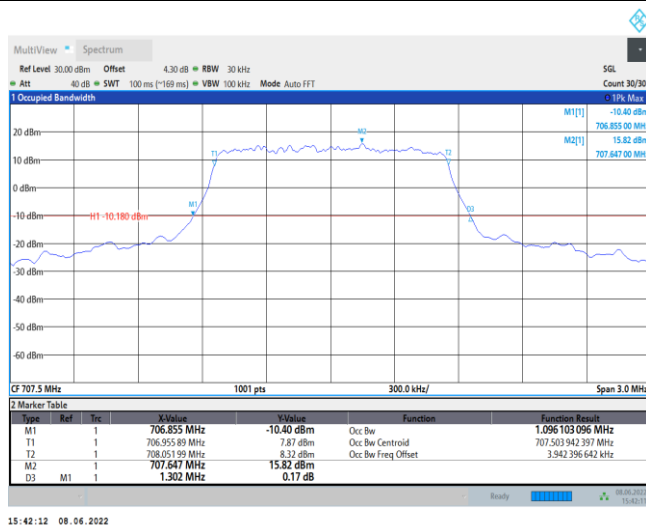
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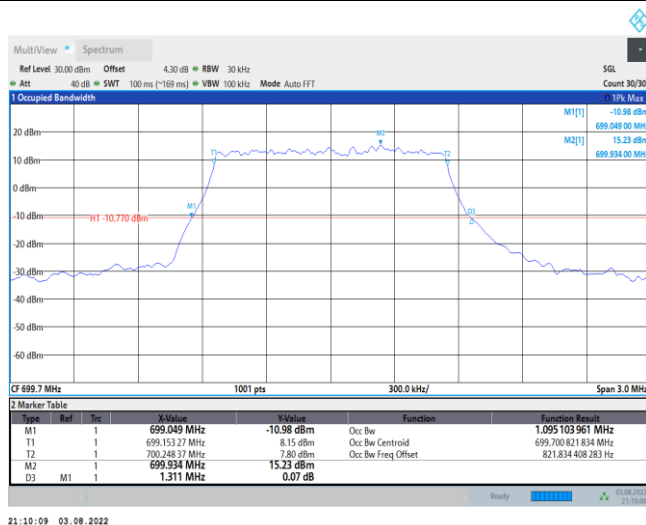
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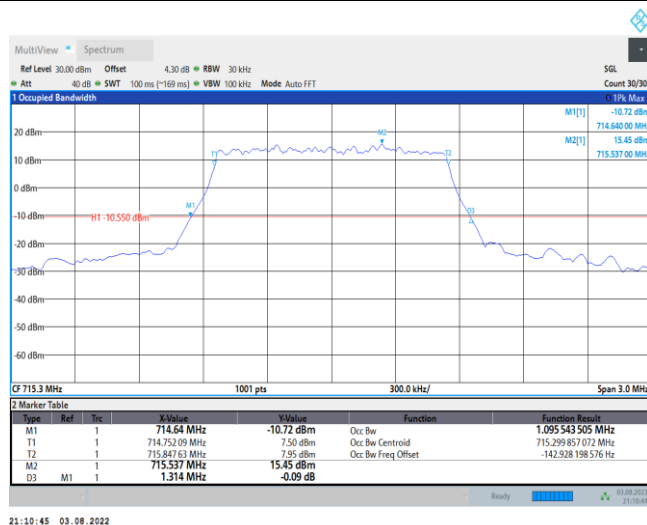
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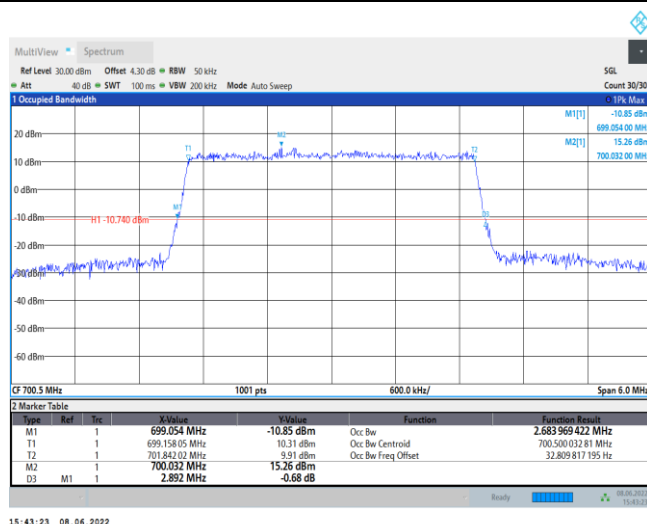
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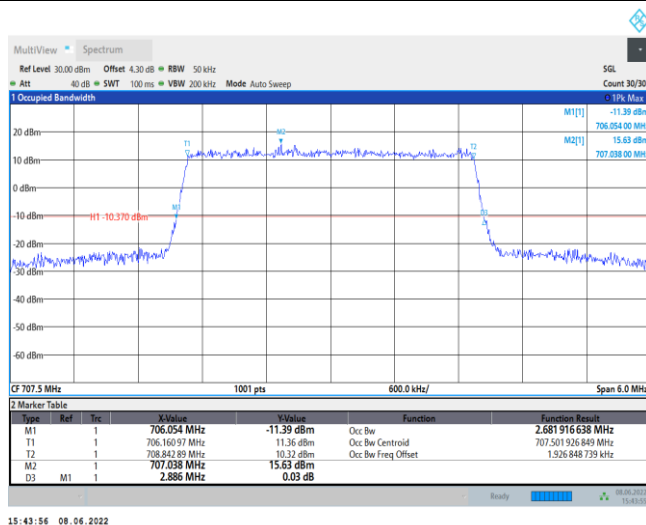
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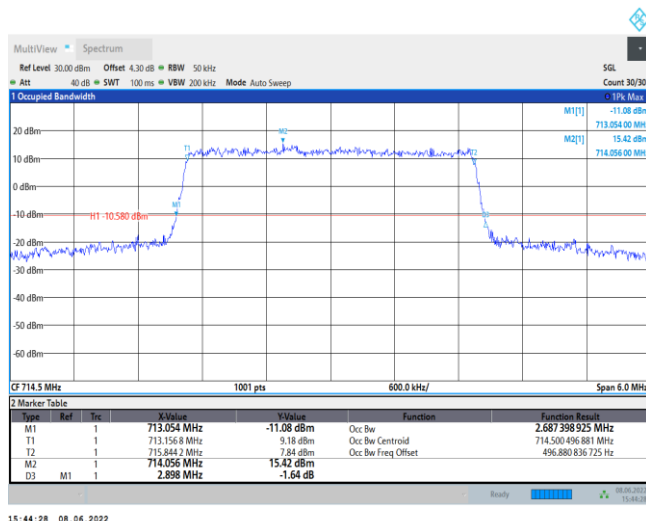
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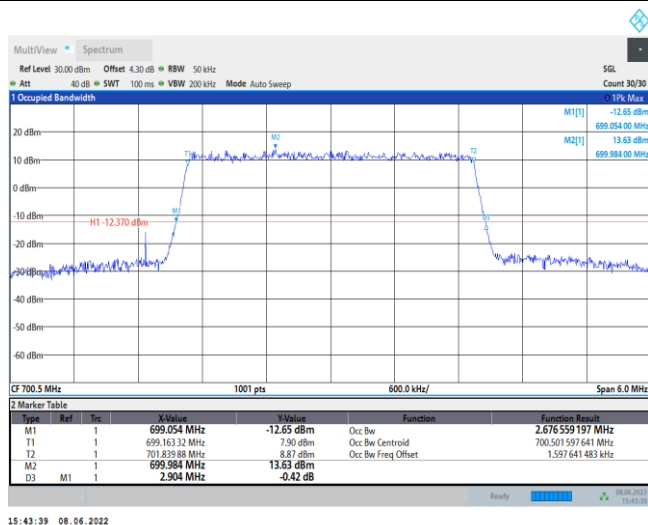
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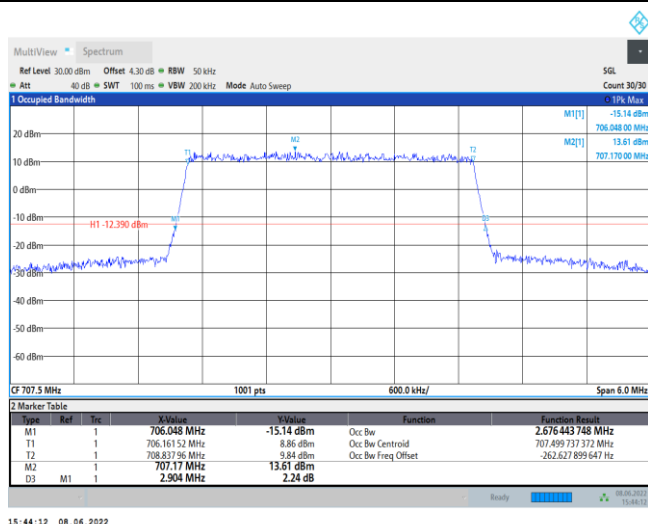
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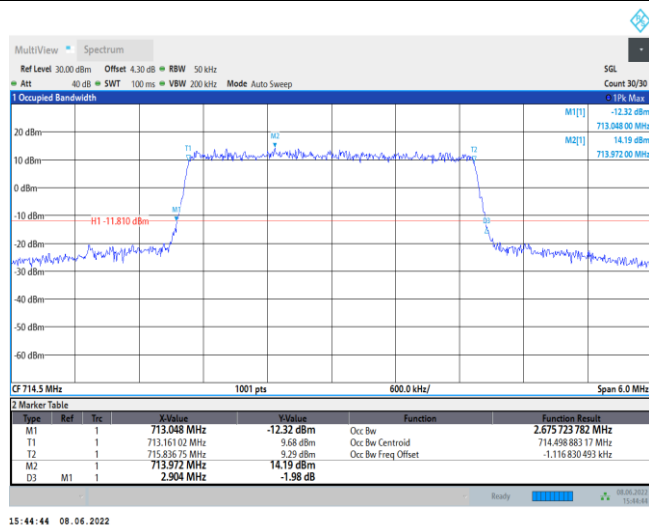
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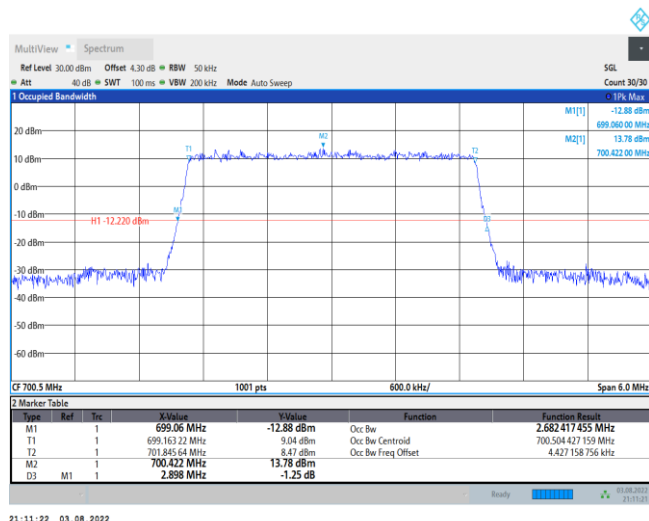
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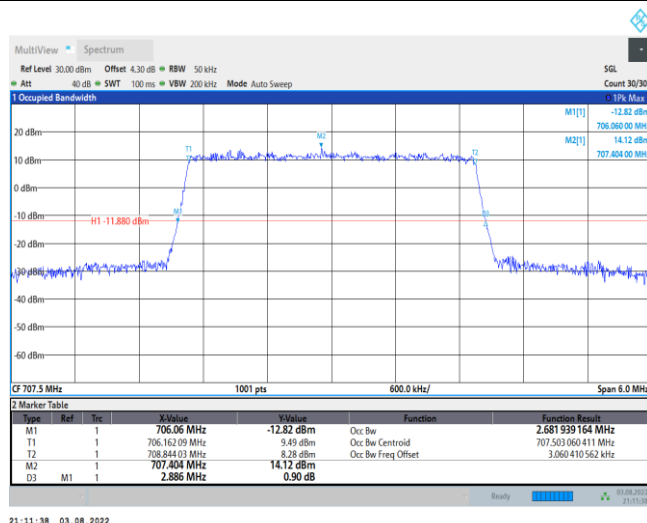
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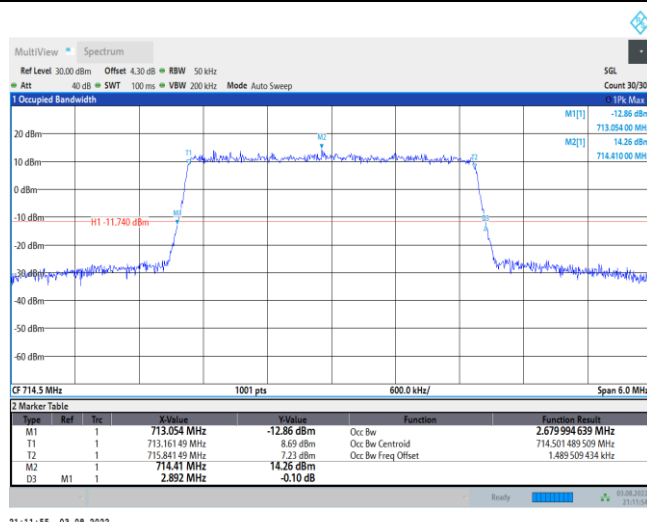
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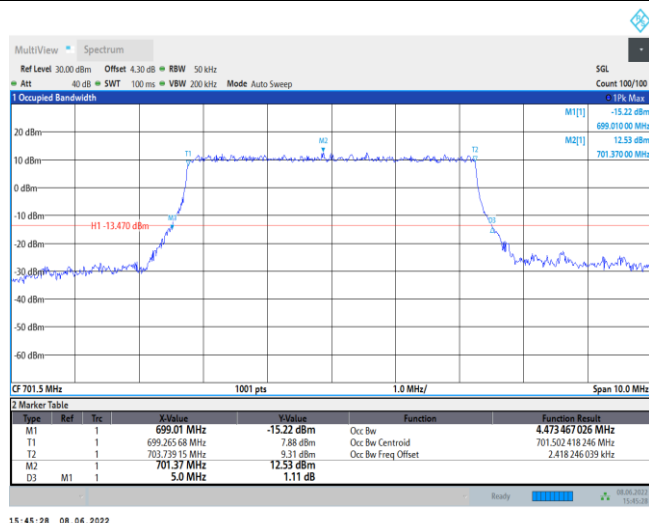
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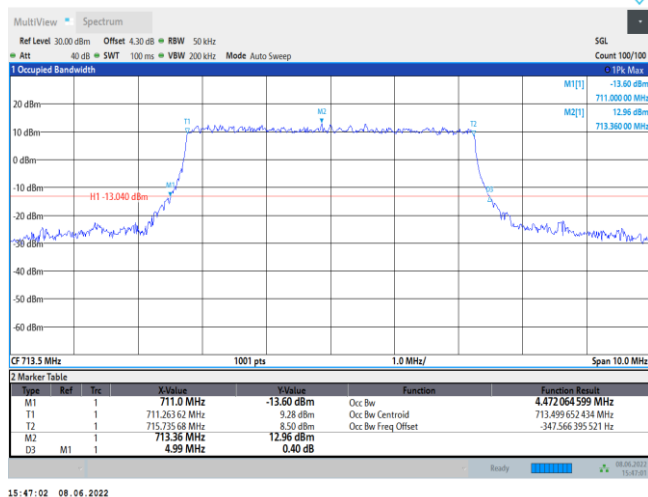
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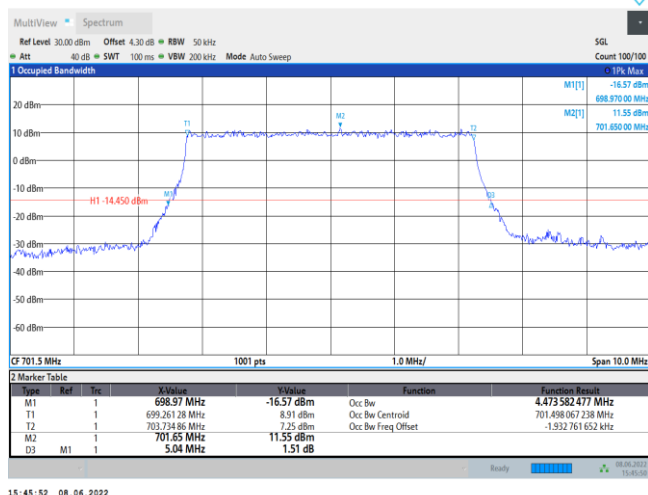
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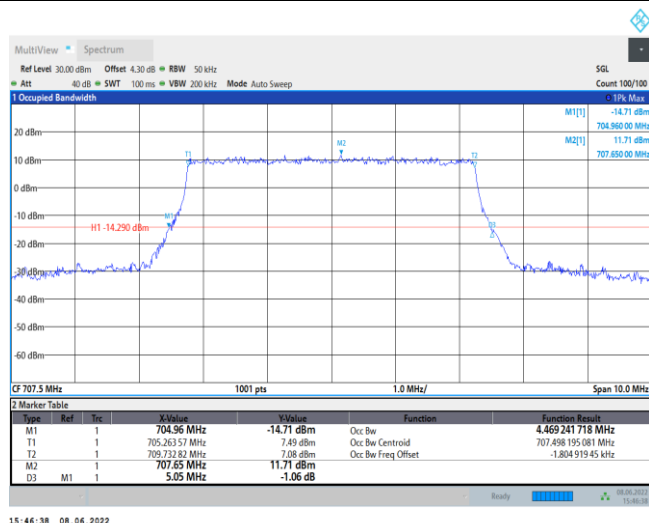
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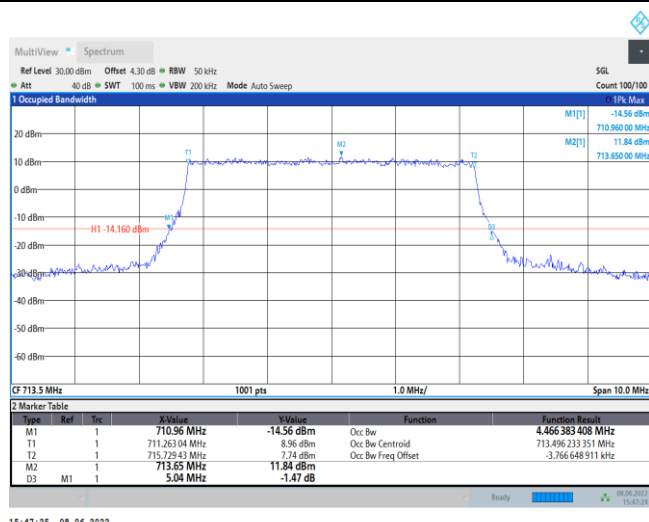
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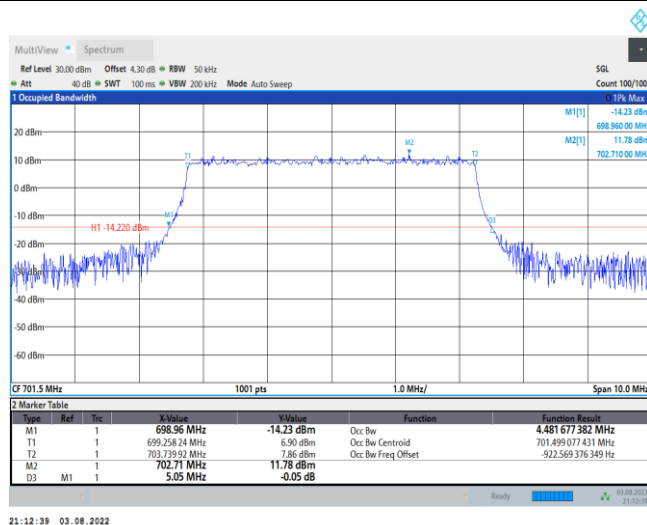
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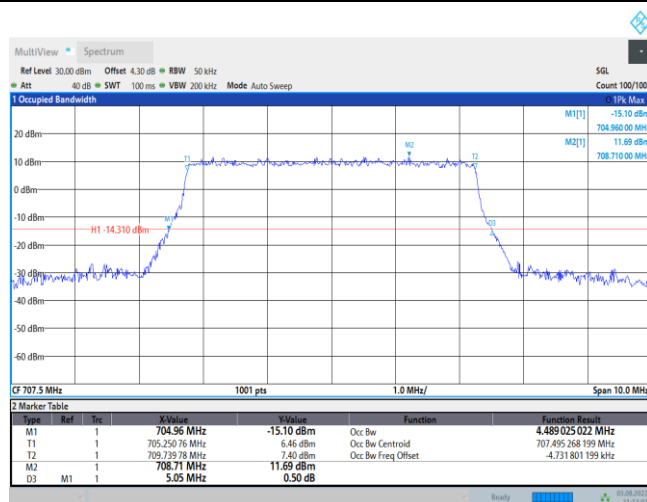
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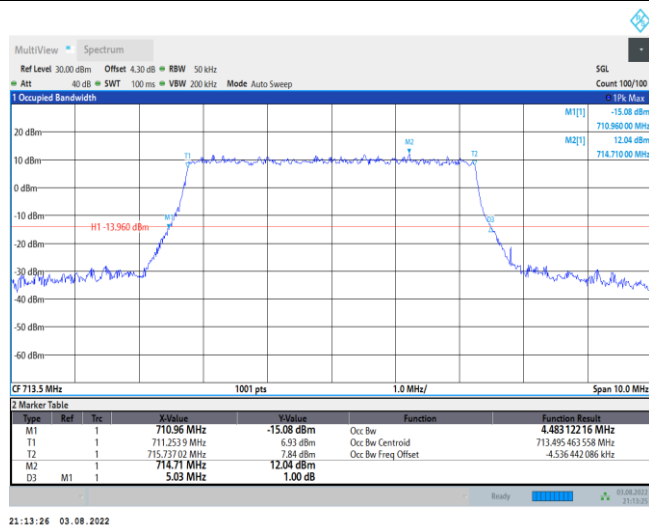
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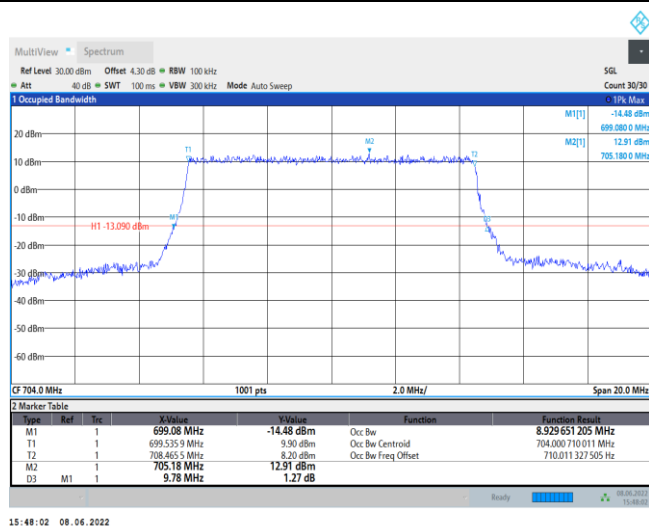
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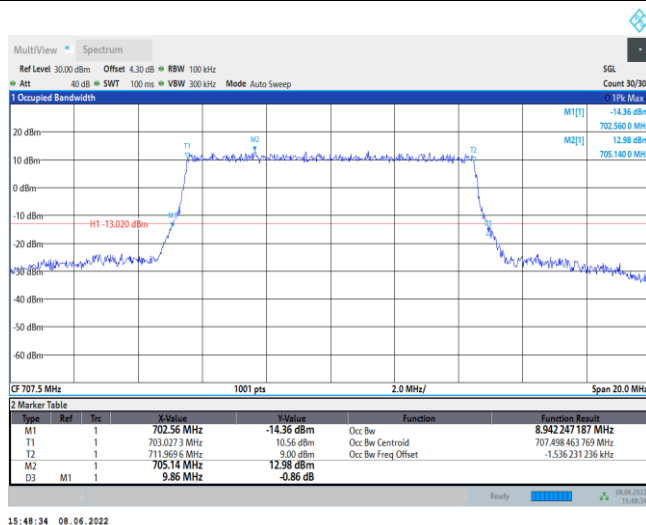
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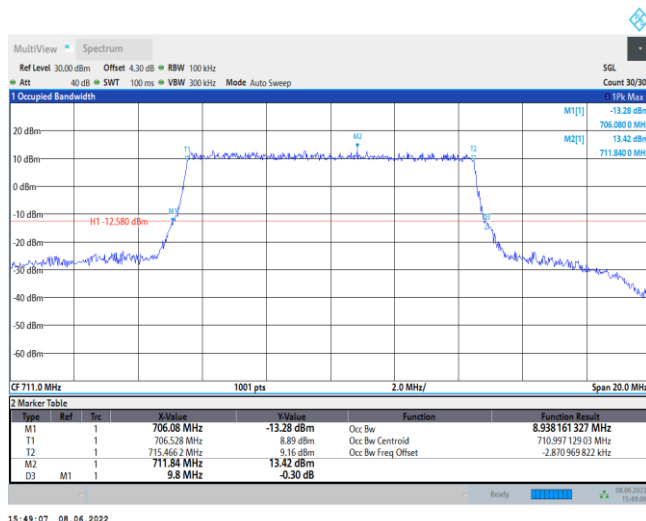
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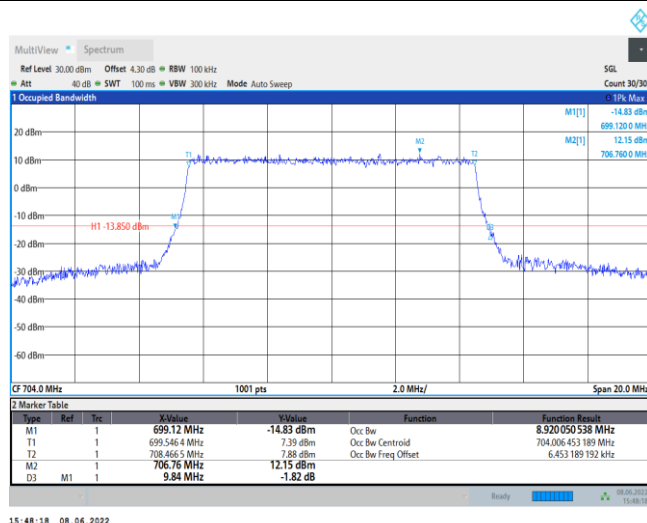
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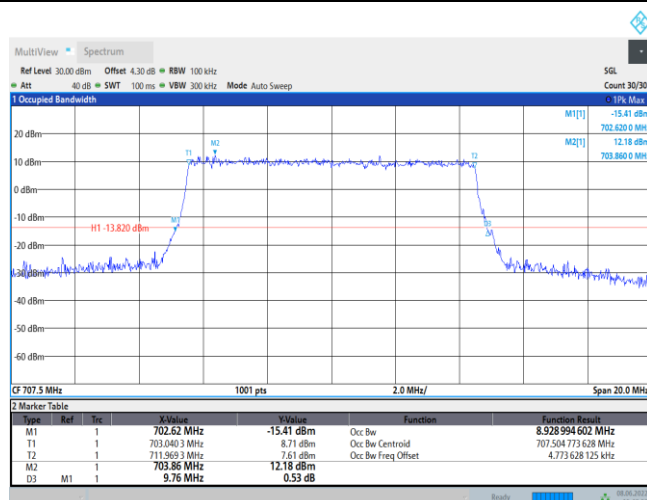
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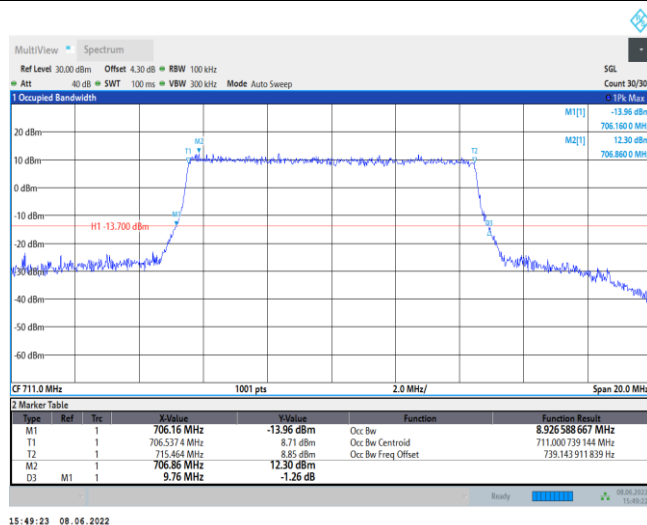
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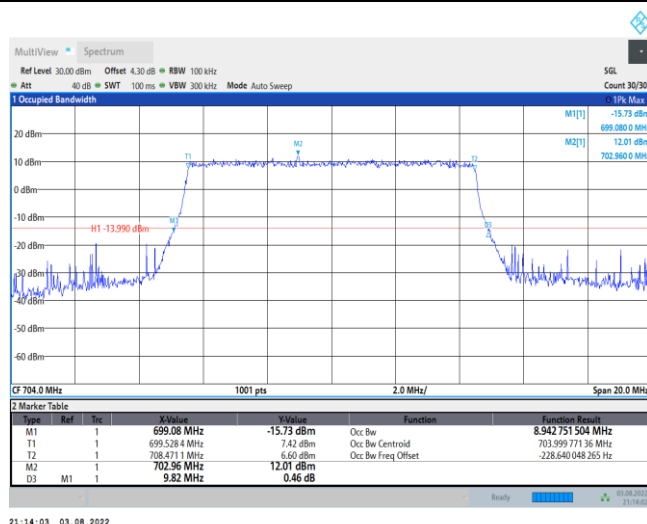
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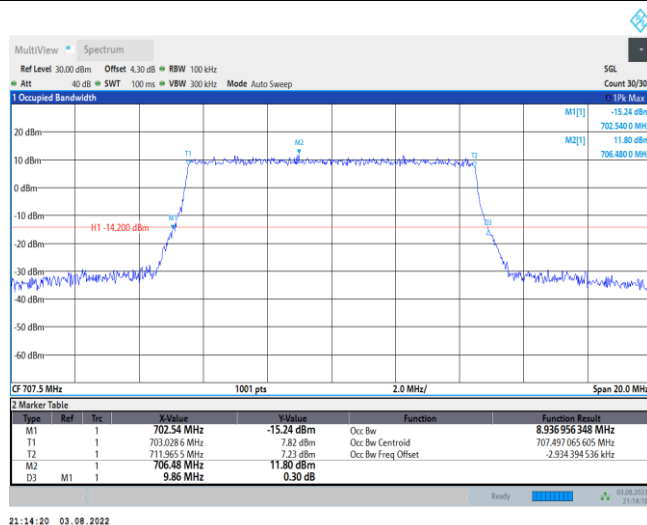
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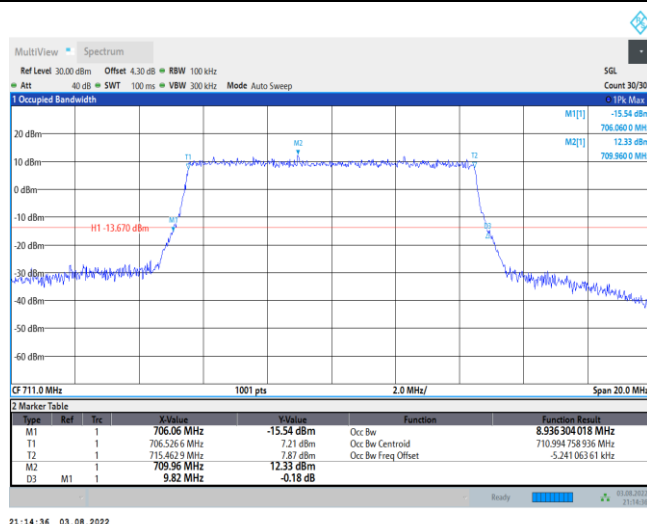
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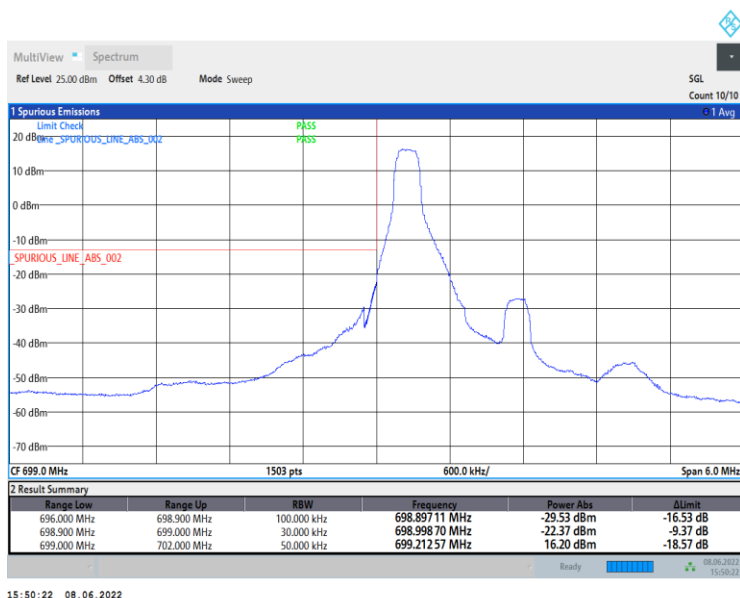
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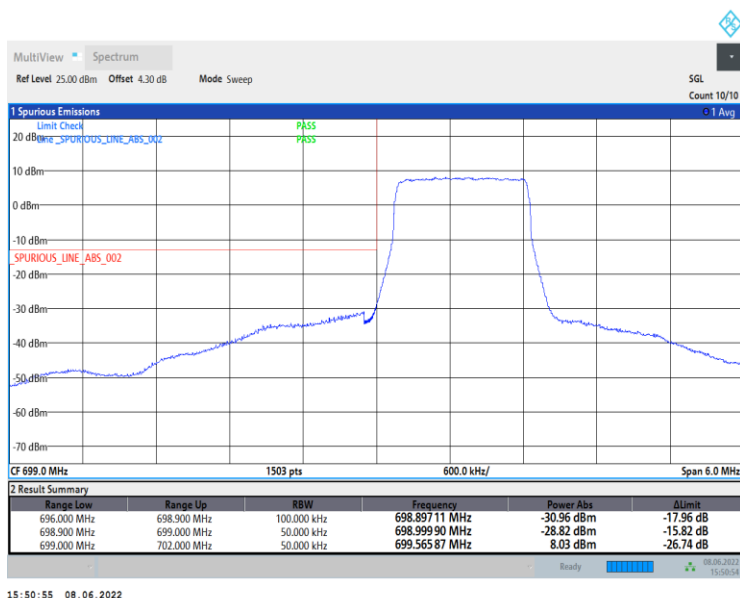
Band Edge

Test Graphs

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



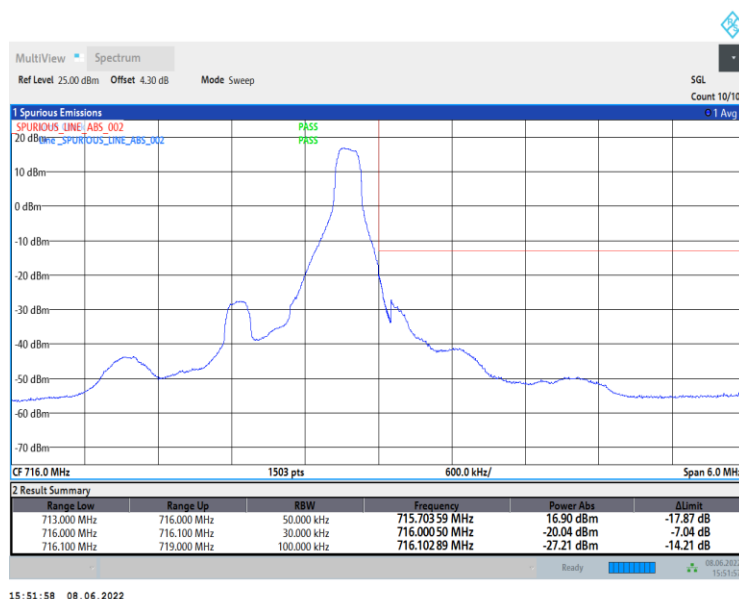
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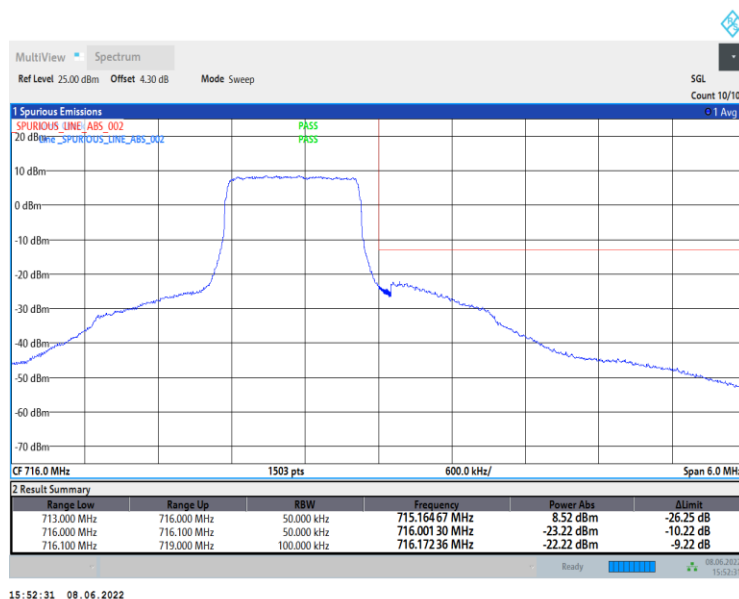
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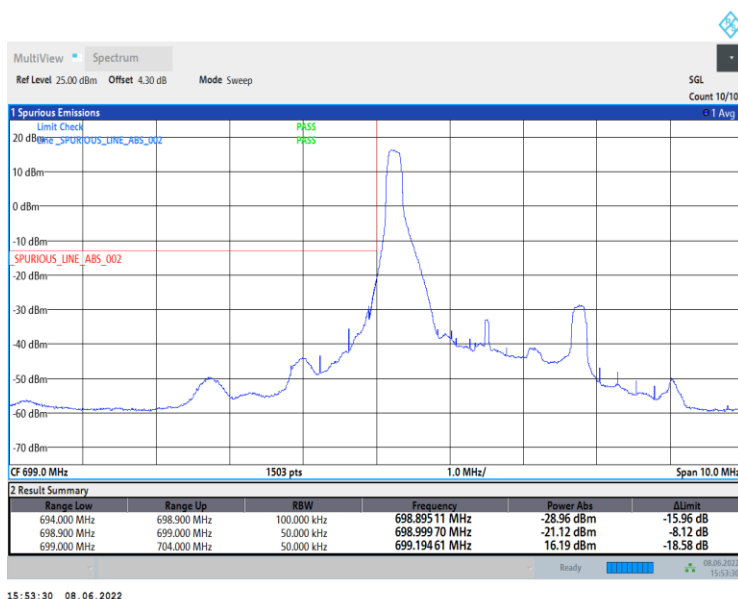
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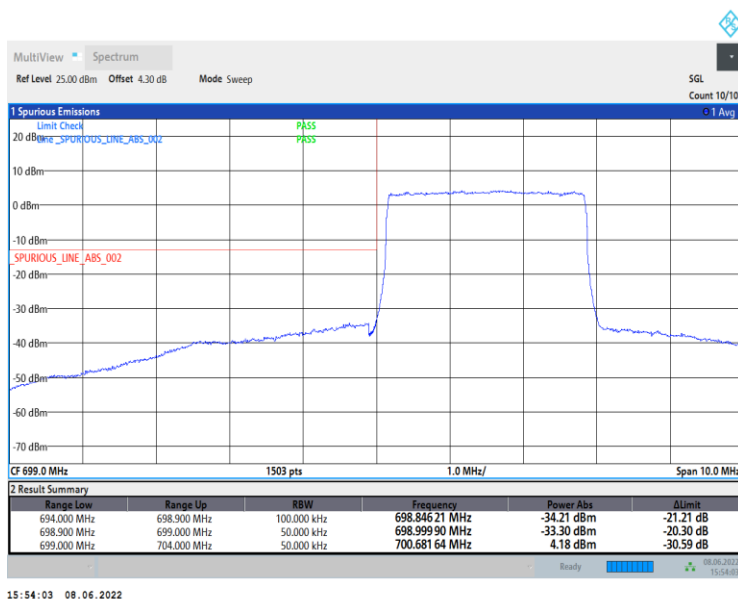
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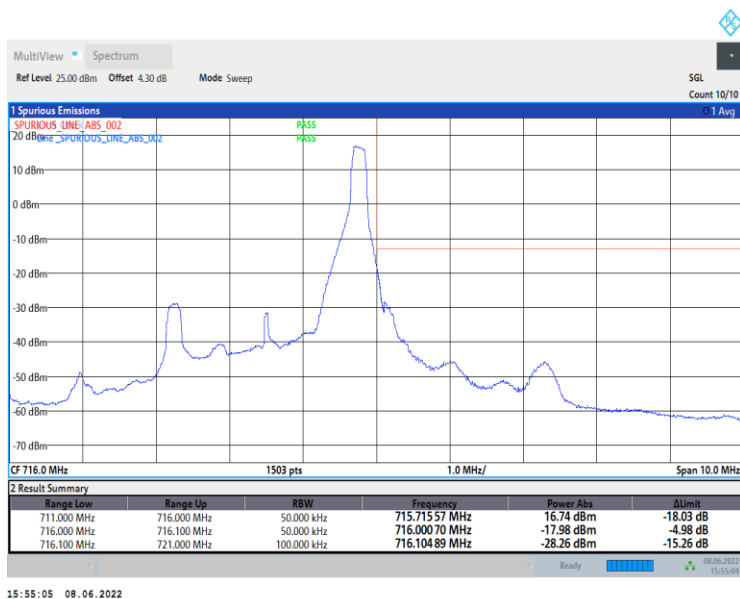
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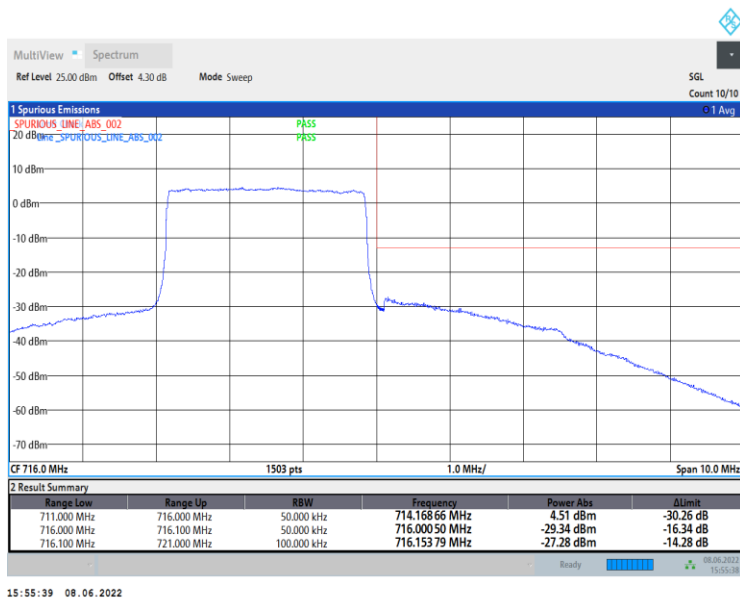
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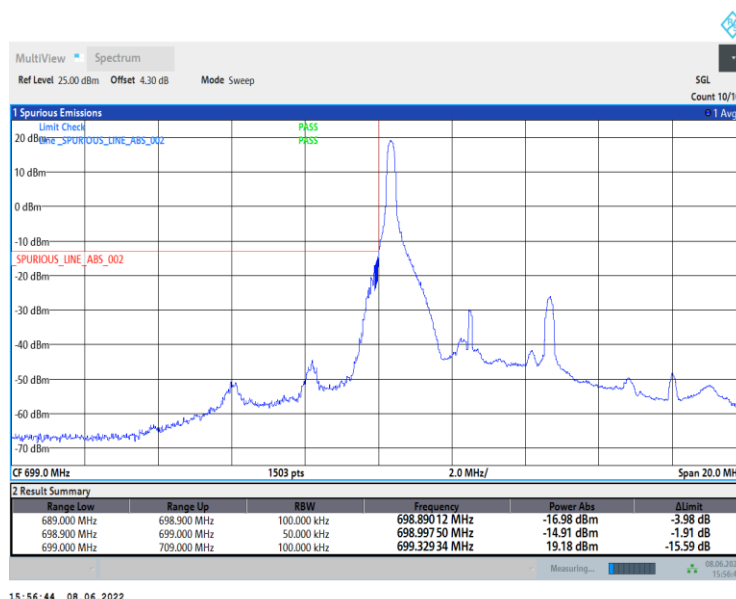
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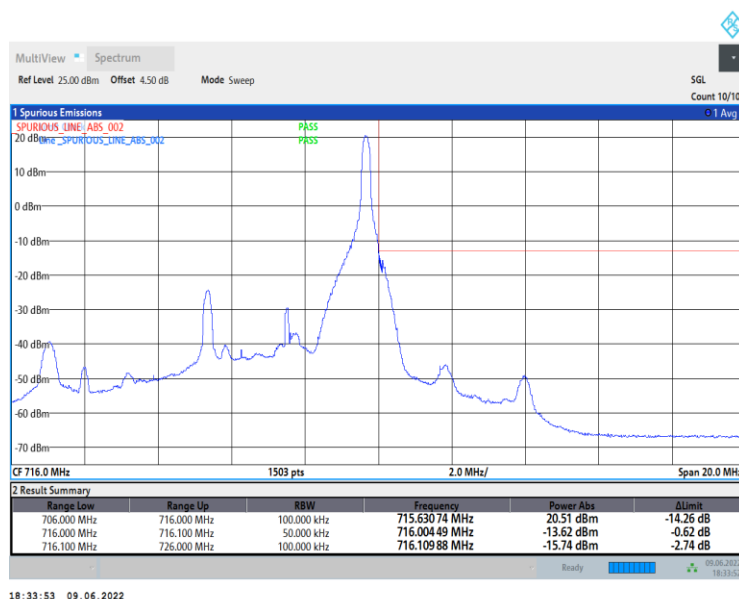
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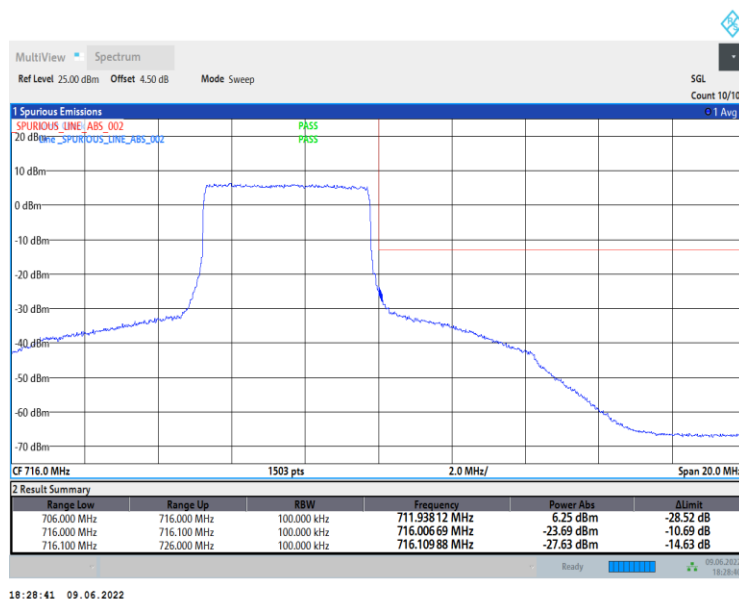
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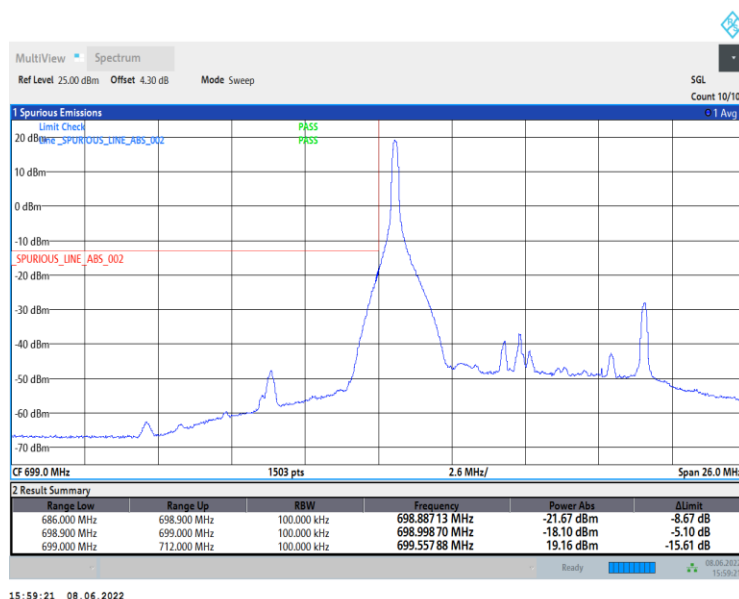
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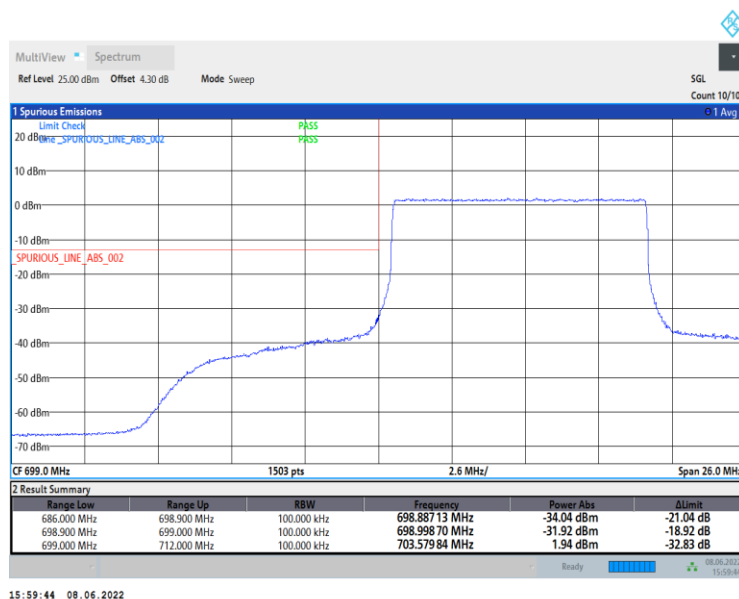
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Band12-10MHz-QPSK-23060-50RB#0



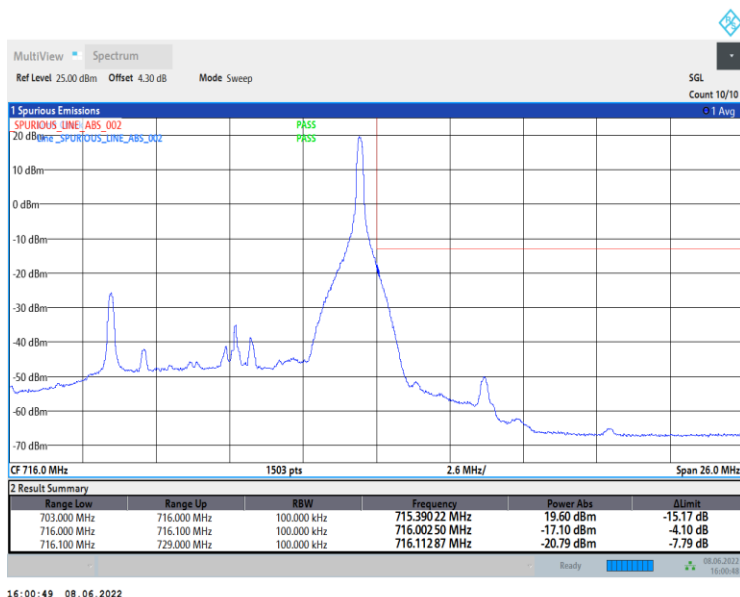
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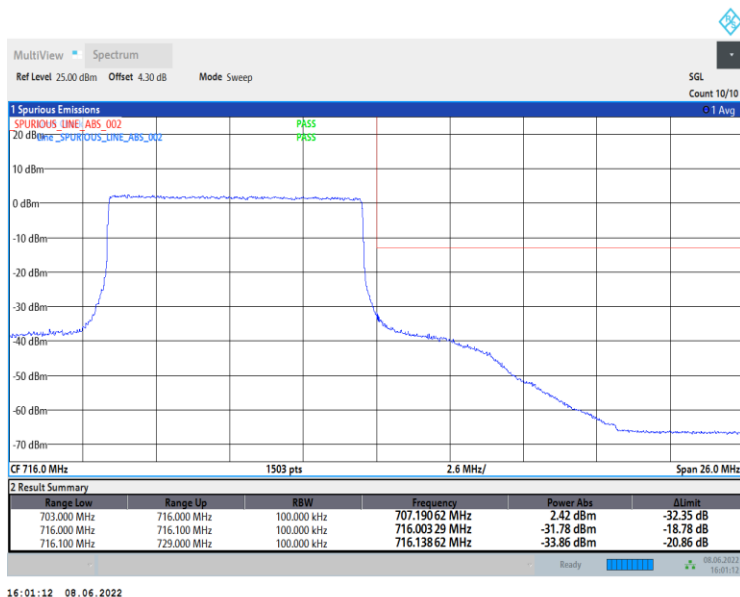
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Band12-10MHz-QPSK-23130-1RB#49



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



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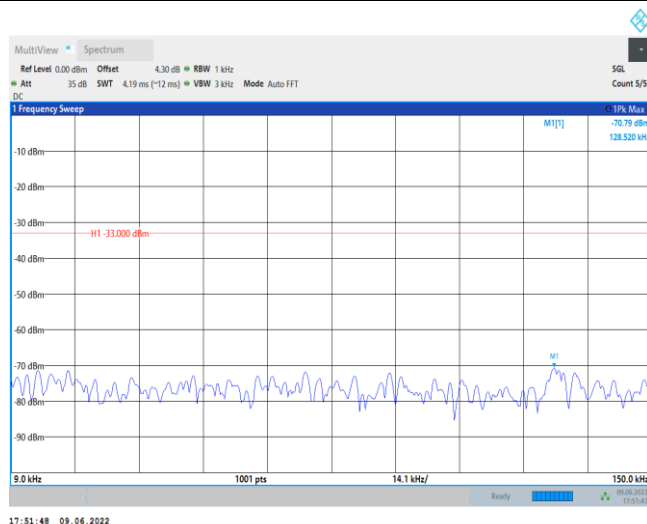
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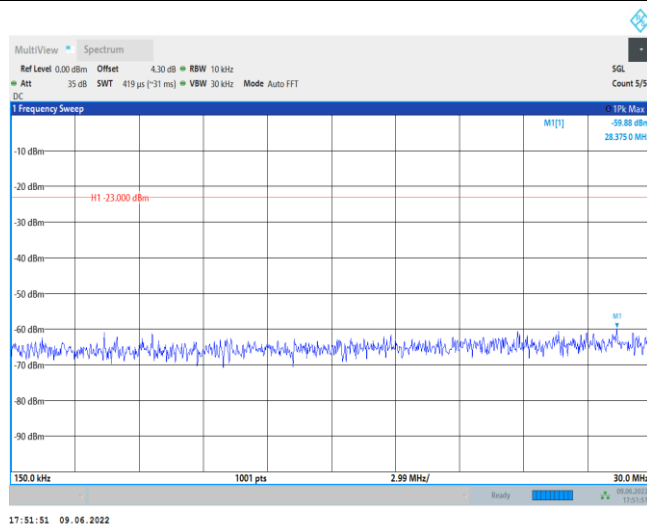
Conducted Spurious Emission

Test Graphs

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



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



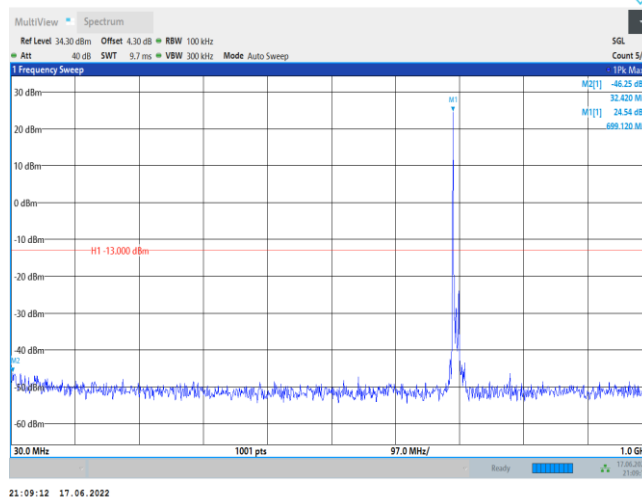
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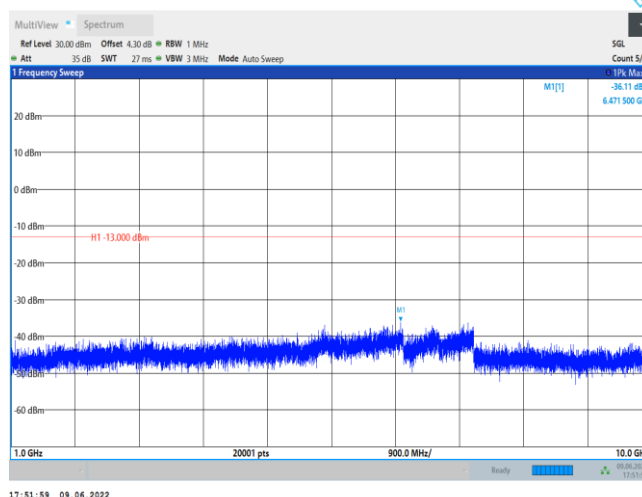
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



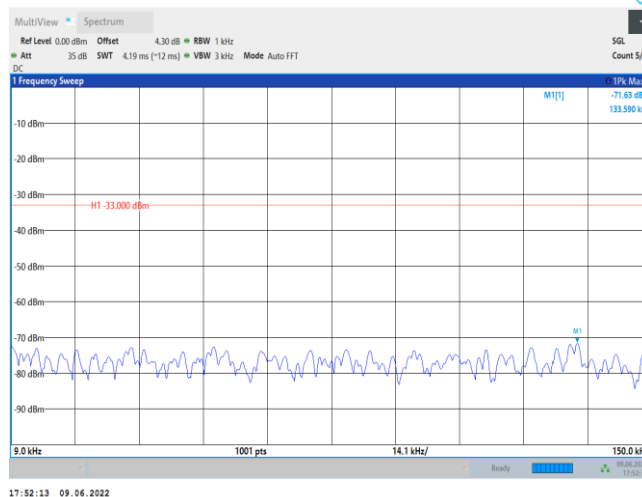
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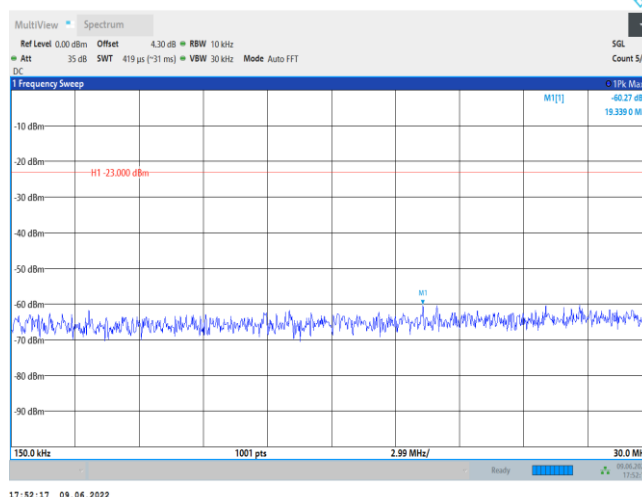
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



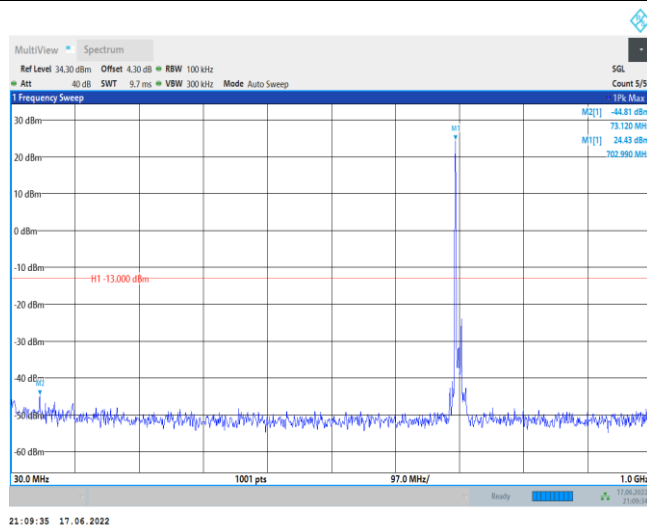
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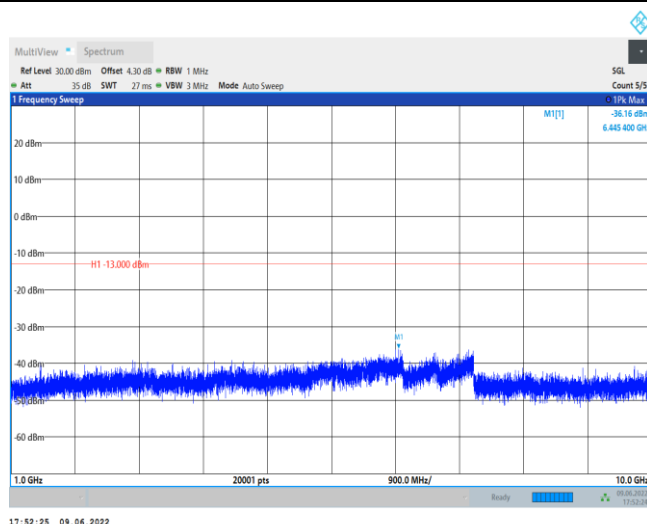
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

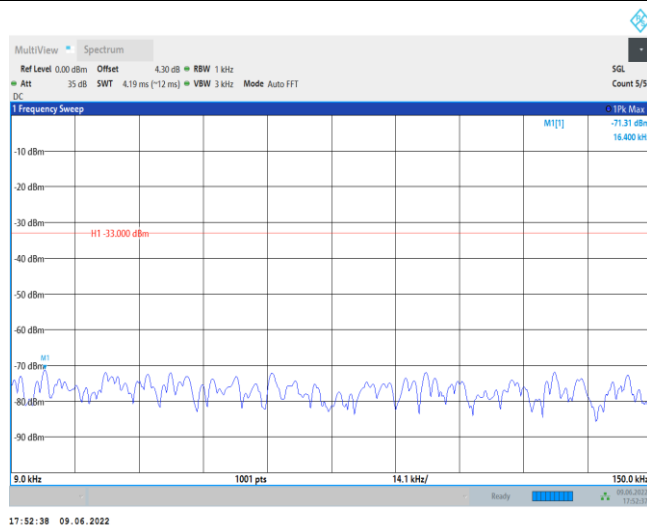


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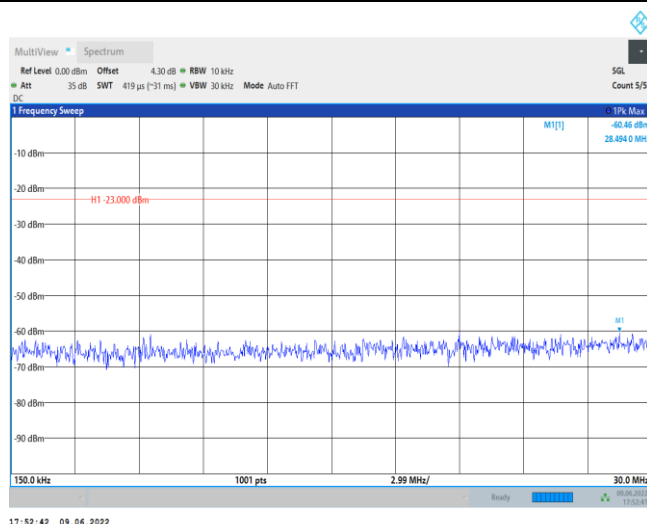
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

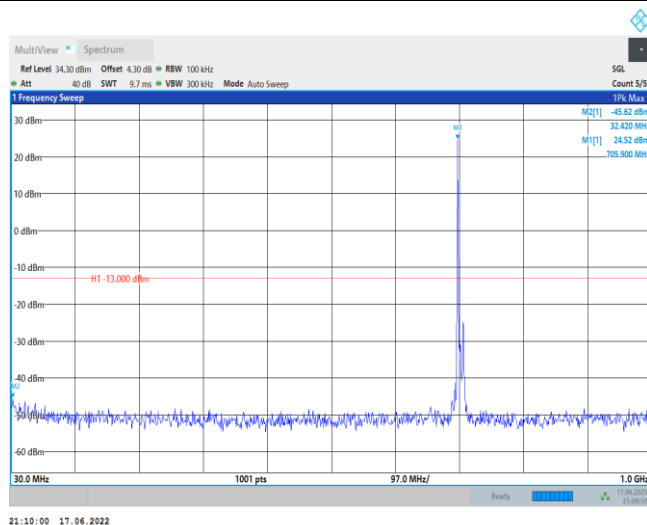


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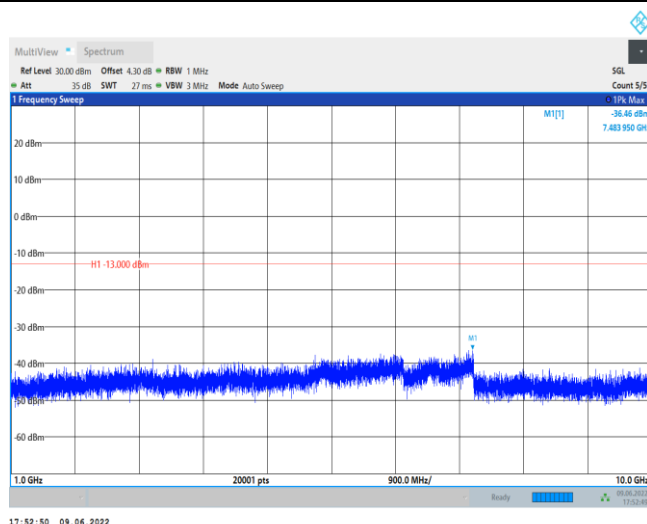
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	60.59	-48.73	25.40	-58.00	-13.00	45.00	142	245	Horizontal
2	2098.77	58.21	-47.88	27.10	-57.83	-13.00	44.83	263	222	Horizontal
3	2798.36	60.22	-46.69	28.92	-52.81	-13.00	39.81	296	211	Horizontal
4	3497.95	65.76	-46.05	29.40	-46.15	-13.00	33.15	265	188	Horizontal
5	4197.54	56.33	-45.12	30.92	-53.13	-13.00	40.13	284	178	Horizontal
6	4897.13	53.34	-45.14	32.35	-54.70	-13.00	41.70	139	167	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	1399.1111	60.49	-48.73	25.40	-58.10	-13.00	45.10	320	59	Vertical
2	2098.77	60.09	-47.88	27.10	-55.95	-13.00	42.95	162	208	Vertical
3	2798.36	66.06	-46.69	28.92	-46.97	-13.00	33.97	254	264	Vertical
4	3497.95	66.80	-46.05	29.40	-45.11	-13.00	32.11	185	95	Vertical
5	4197.54	62.29	-45.12	30.92	-47.17	-13.00	34.17	265	332	Vertical
6	4897.13	50.48	-45.14	32.35	-57.56	-13.00	44.56	241	3	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	59.18	-48.72	25.41	-59.39	-13.00	46.39	163	129	Horizontal
2	2109.27	62.30	-47.87	27.12	-53.71	-13.00	40.71	285	233	Horizontal
3	2812.36	61.94	-46.69	28.96	-51.05	-13.00	38.05	241	38	Horizontal
4	3515.45	62.44	-46.03	29.44	-49.42	-13.00	36.42	175	221	Horizontal
5	4218.54	59.49	-45.11	30.95	-49.93	-13.00	36.93	263	176	Horizontal
6	4921.63	52.08	-45.12	32.41	-55.89	-13.00	42.89	284	142	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	1406.18	59.81	-48.72	25.41	-58.76	-13.00	45.76	263	138	Vertical
2	2109.27	61.84	-47.87	27.12	-54.17	-13.00	41.17	284	309	Vertical
3	2812.36	68.83	-46.69	28.96	-44.16	-13.00	31.16	174	309	Vertical
4	3515.45	66.03	-46.03	29.44	-45.83	-13.00	32.83	163	104	Vertical
5	4218.54	63.20	-45.11	30.95	-46.22	-13.00	33.22	254	12	Vertical
6	4921.63	50.95	-45.12	32.41	-57.02	-13.00	44.02	144	359	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	59.99	-48.70	25.41	-58.55	-13.00	45.55	263	54	Horizontal
2	2119.77	57.50	-47.85	27.14	-58.47	-13.00	45.47	284	234	Horizontal
3	2826.36	58.02	-46.71	29.01	-54.94	-13.00	41.94	175	99	Horizontal
4	3532.95	59.67	-46.01	29.48	-52.12	-13.00	39.12	263	178	Horizontal
5	4239.54	56.07	-45.11	30.98	-53.32	-13.00	40.32	298	234	Horizontal
6	4946.13	50.45	-45.09	32.47	-57.42	-13.00	44.42	247	256	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	1413.18	62.43	-48.70	25.41	-56.11	-13.00	43.11	142	321	Vertical
2	2119.77	58.00	-47.85	27.14	-57.97	-13.00	44.97	286	359	Vertical
3	2826.36	60.38	-46.71	29.01	-52.58	-13.00	39.58	254	275	Vertical
4	3532.95	59.72	-46.01	29.48	-52.07	-13.00	39.07	179	104	Vertical
5	4239.54	58.69	-45.11	30.98	-50.70	-13.00	37.70	265	343	Vertical
6	4946.13	50.46	-45.09	32.47	-57.41	-13.00	44.41	284	13	Vertical

Remark:

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

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

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV – 95.26



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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	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.50	-0.006360	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-3.80	-0.005371	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-10.00	-0.014134	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-10.70	-0.015124	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.60	-0.007915	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-12.50	-0.017668	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-6.10	-0.008622	PASS

---End of Attachment---



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