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Appendix B.7

LTE Band 12



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t (86-512) 62992980 sgs.china@sgs.com

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.06	16.71	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.98	16.63	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.91	16.56	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.77	15.42	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.72	16.37	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.78	16.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.92	16.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.14	15.79	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.76	16.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.00	16.65	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.68	16.33	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.97	15.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.24	15.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.00	15.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.18	15.83	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.88	14.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.19	15.84	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.54	16.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.31	15.96	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.96	14.61	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.21	15.86	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.19	15.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.99	15.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.81	14.46	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.95	14.60	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.01	14.66	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.00	14.65	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.91	13.56	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.14	14.79	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.25	14.90	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.97	14.62	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.99	13.64	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.98	14.63	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.14	14.79	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.14	14.79	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.09	13.74	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.91	16.56	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.85	16.50	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.91	16.56	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.86	15.51	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.96	16.61	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.94	16.59	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.72	16.37	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.74	15.39	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.01	16.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.85	16.50	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.80	16.45	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.07	15.72	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.26	15.91	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.31	15.96	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.06	15.71	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.84	14.49	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.29	15.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.52	16.17	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.21	15.86	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.13	14.78	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.24	15.89	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.22	15.87	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.11	15.76	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	22.08	14.73	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.21	14.86	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.49	15.14	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.01	14.66	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.00	13.65	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.98	14.63	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.05	14.70	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.41	15.06	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.93	13.58	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.13	14.78	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.06	14.71	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.07	14.72	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.02	13.67	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.73	16.38	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.93	16.58	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.73	16.38	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.11	15.76	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.70	16.35	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.91	16.56	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.99	16.64	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.95	15.60	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.90	16.55	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.80	16.45	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.63	16.28	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.04	15.69	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.20	15.85	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.38	16.03	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.24	15.89	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.04	14.69	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.24	15.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.49	16.14	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.14	15.79	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	22.01	14.66	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.39	16.04	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.15	15.80	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.45	16.10	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.09	14.74	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.13	14.78	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.22	14.87	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.96	14.61	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.98	13.63	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.07	14.72	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.07	14.72	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.17	14.82	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.89	13.54	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.32	14.97	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.30	14.95	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.98	14.63	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.79	13.44	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.94	16.59	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.77	16.42	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.71	16.36	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.91	15.56	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.83	16.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.74	16.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.78	16.43	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.10	15.75	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.80	16.45	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.85	16.50	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.69	16.34	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.10	15.75	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.14	15.79	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.29	15.94	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.21	15.86	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	22.03	14.68	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.26	15.91	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.04	15.69	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.17	15.82	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.70	14.35	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.39	16.04	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.87	15.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.98	15.63	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.81	14.46	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.10	14.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.05	14.70	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.32	14.97	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.88	13.53	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.15	14.80	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.22	14.87	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.93	14.58	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.04	13.69	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.97	14.62	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.26	14.91	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.22	14.87	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.99	13.64	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	4.92	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.82	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	5.60	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.70	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.08	13	PASS

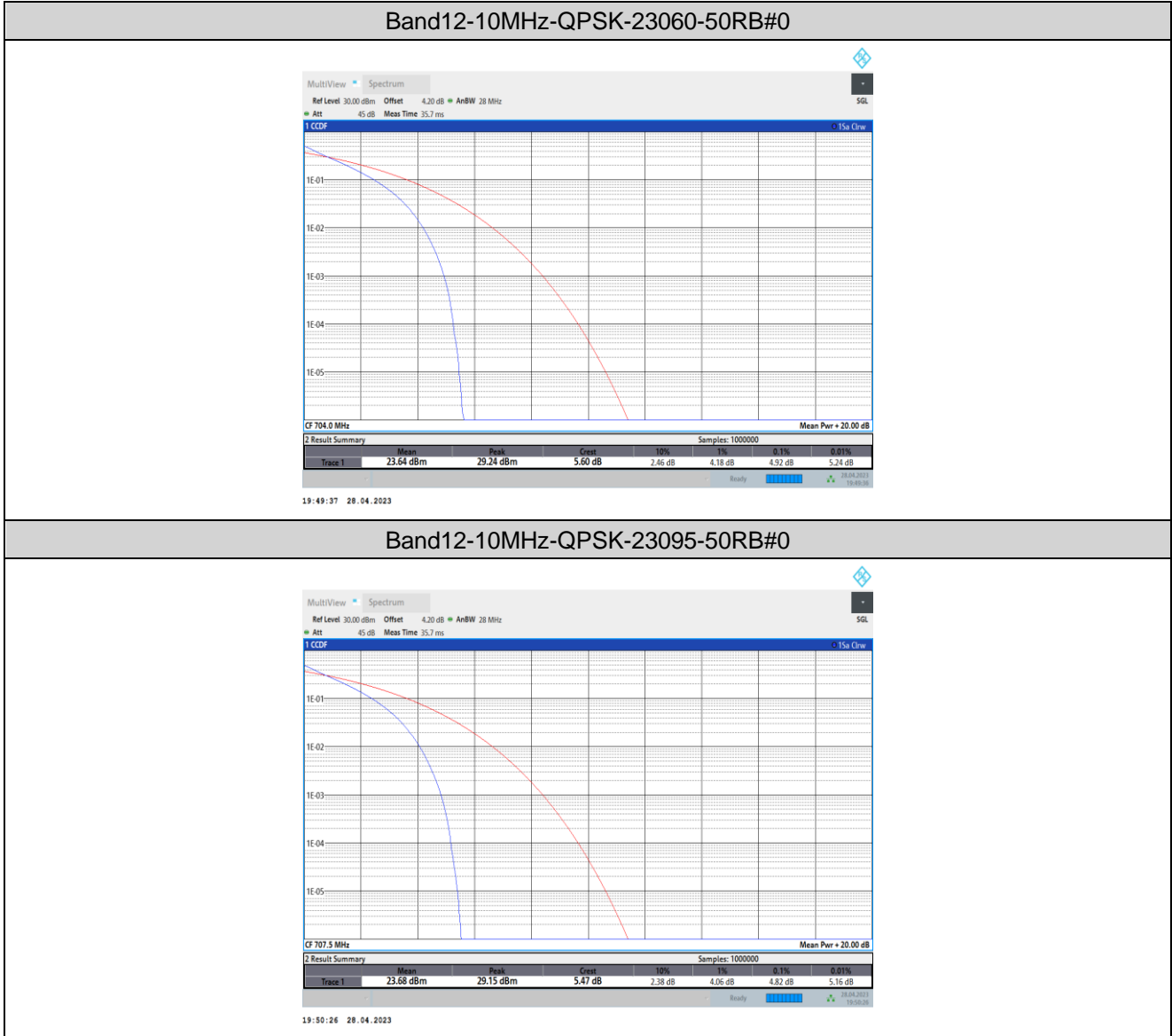


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Test Graphs

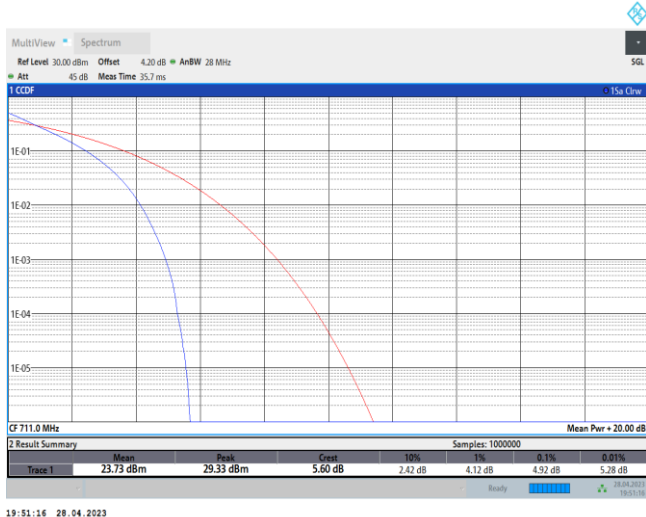


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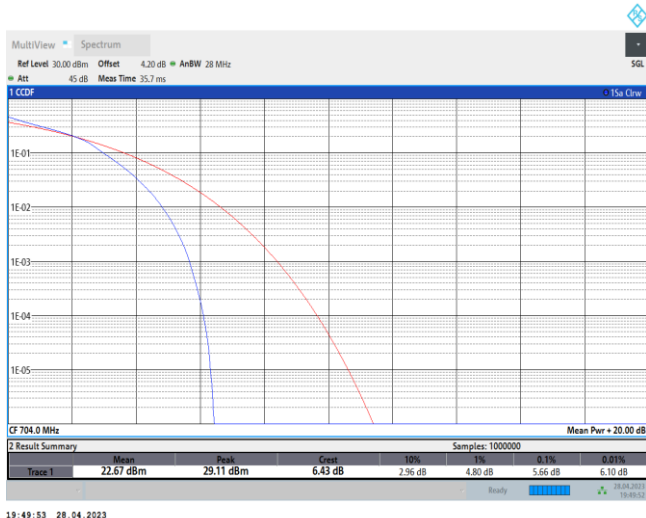
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Band12-10MHz-QPSK-23130-50RB#0



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

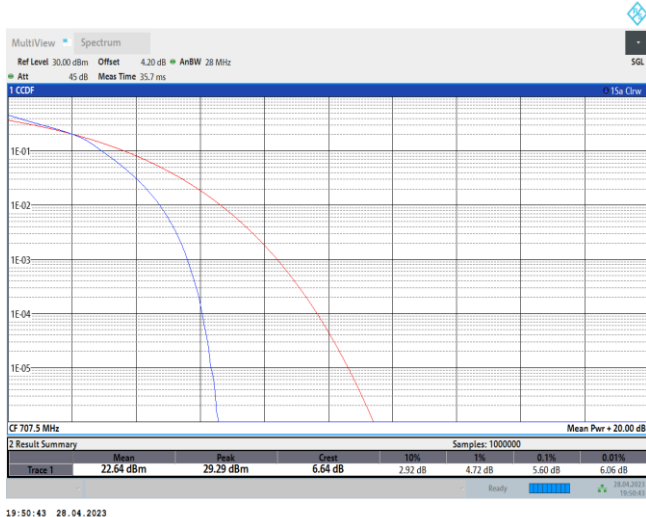


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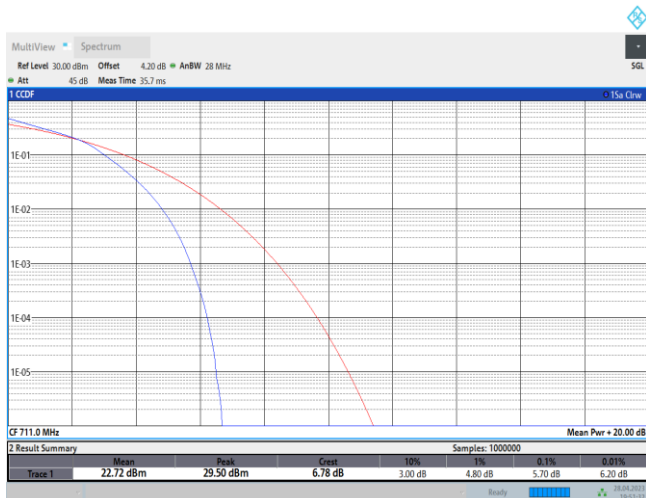
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Band12-10MHz-16QAM-23095-50RB#0



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



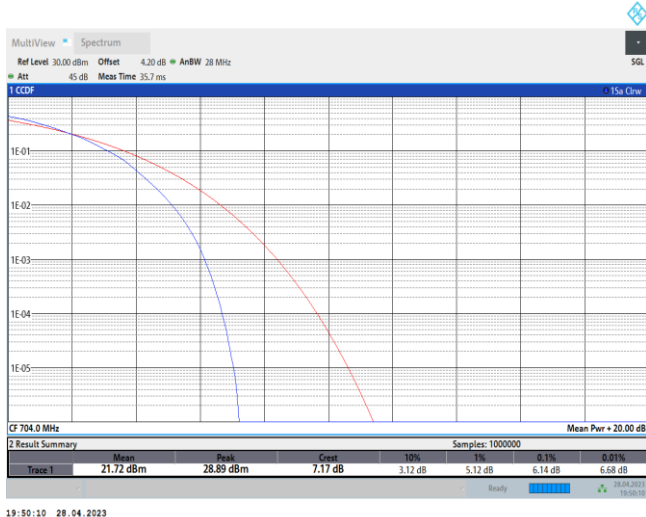
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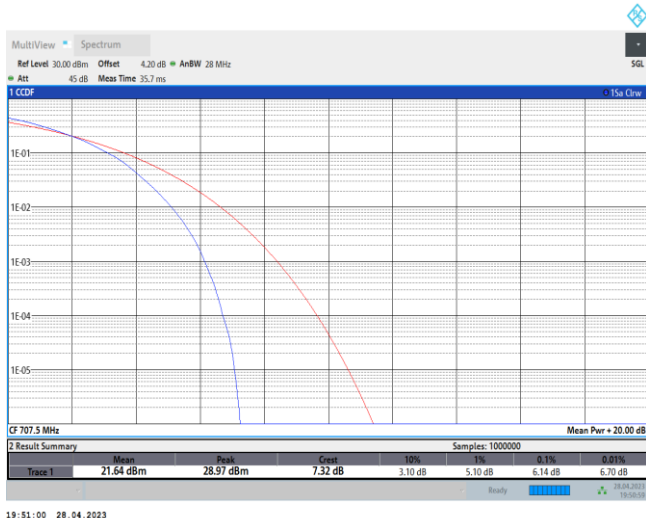
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Band12-10MHz-64QAM-23060-50RB#0



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

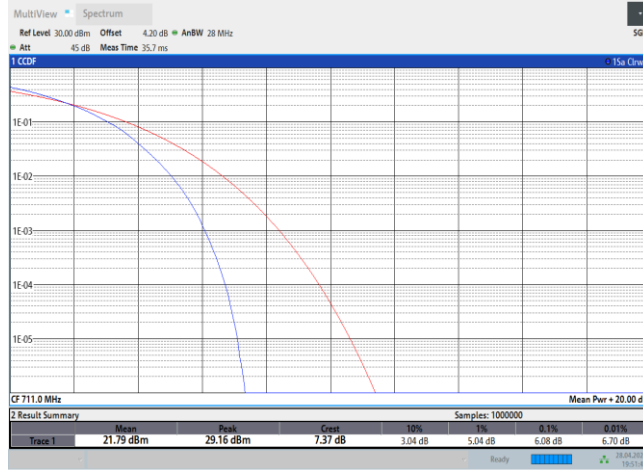


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Band12-10MHz-64QAM-23130-50RB#0



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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



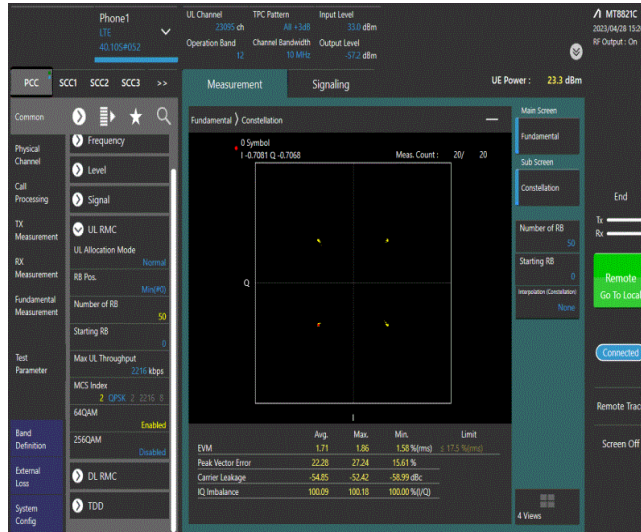
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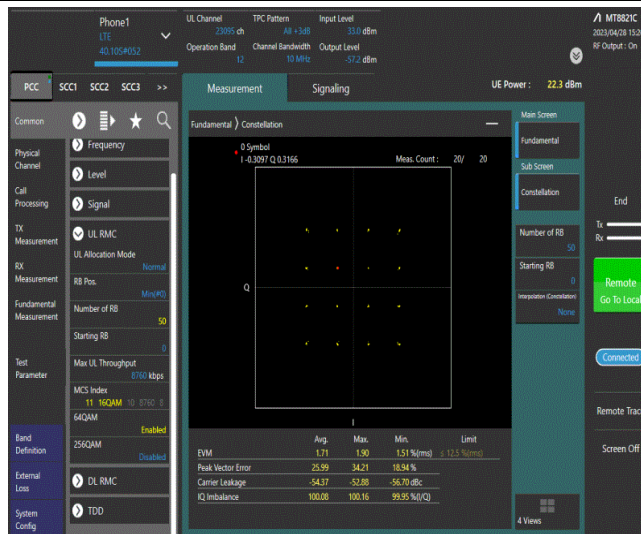
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Test Graphs

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



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

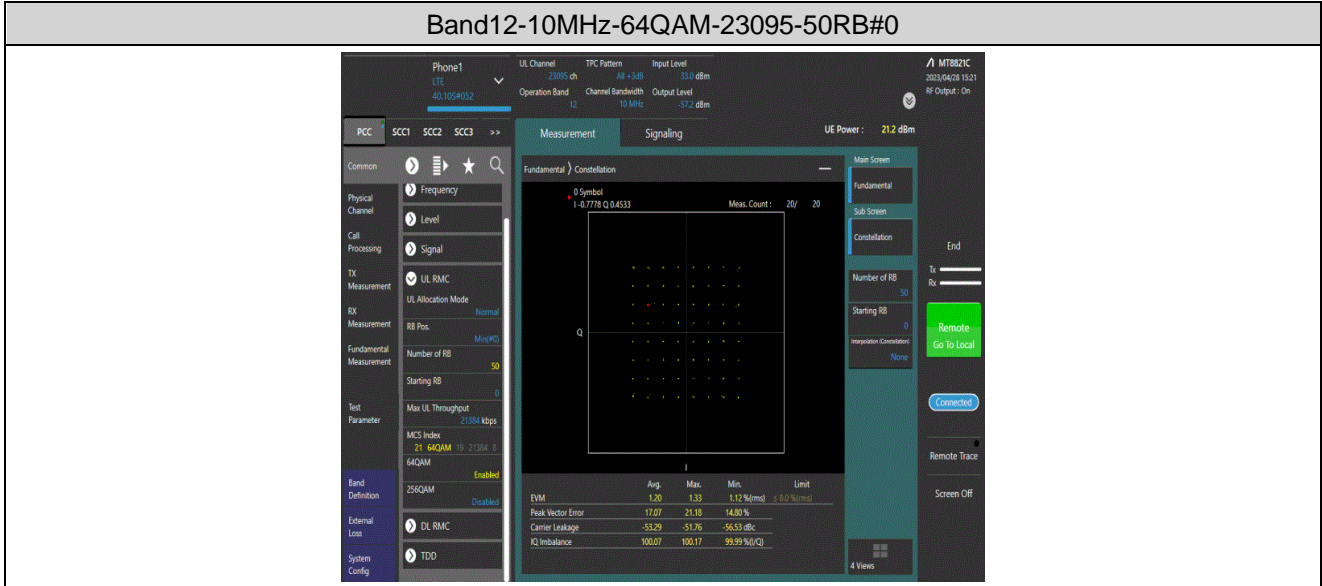


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.107	1.34	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.112	1.37	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.33	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.36	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.099	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.088	1.32	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.090	1.31	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.099	1.32	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.694	3.03	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.704	3.04	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.695	3.01	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.690	3.01	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.710	3.08	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.698	3.01	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.708	2.99	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.697	3.04	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.696	3.01	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.478	4.99	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.468	4.92	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.469	4.97	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.489	5.00	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.479	4.92	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.484	4.94	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.469	5.04	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.479	4.95	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.944	9.54	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.957	9.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.934	9.76	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.963	9.62	PASS



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Rev.: 01

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Band12	10MHz	16QAM	23095	50RB#0	8.936	9.64	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.947	9.74	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.955	9.62	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.968	9.60	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.936	9.62	PASS



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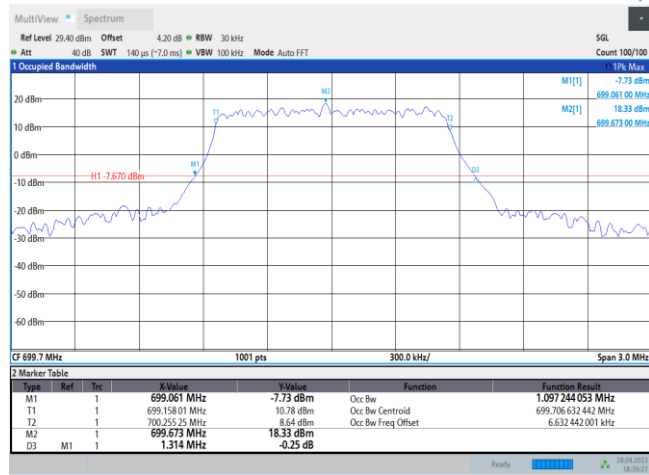
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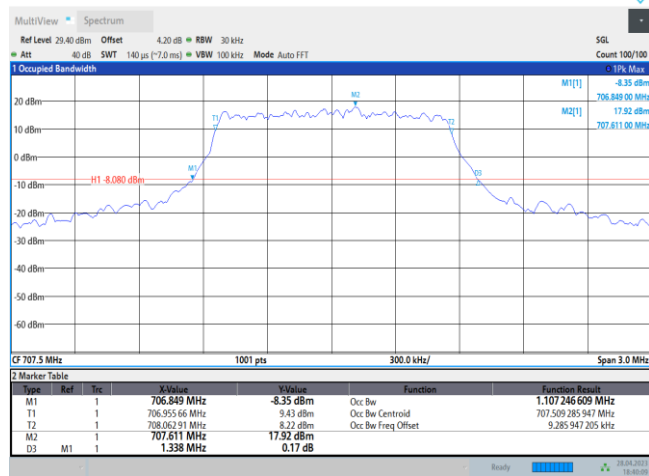
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Band12-1.4MHz-QPSK-23017-6RB#0



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



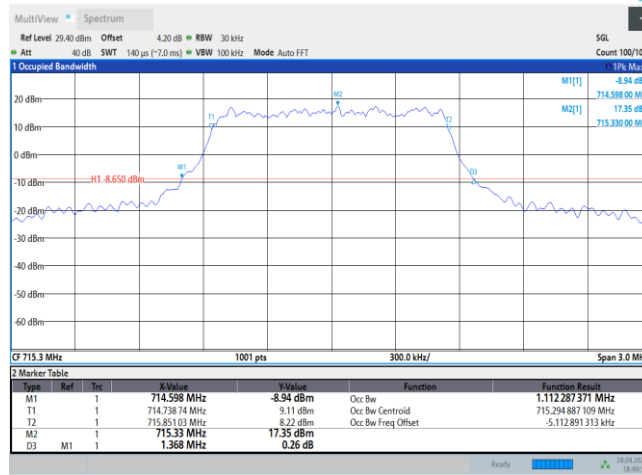
18:40:10 28. 04. 2023



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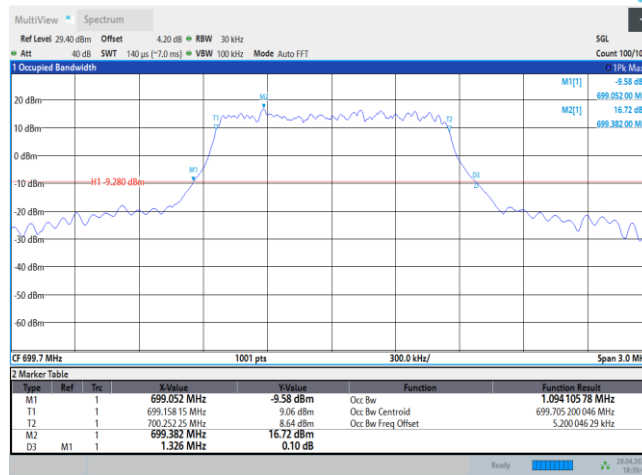
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Band12-1.4MHz-QPSK-23173-6RB#0



18:40:52 28.04.2023

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



18:39:41 28.04.2023



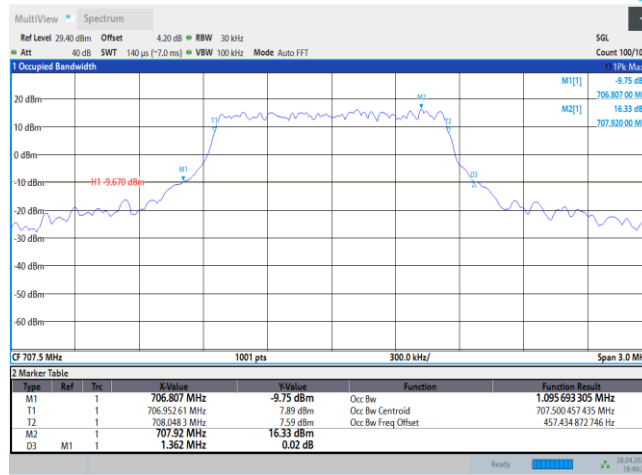
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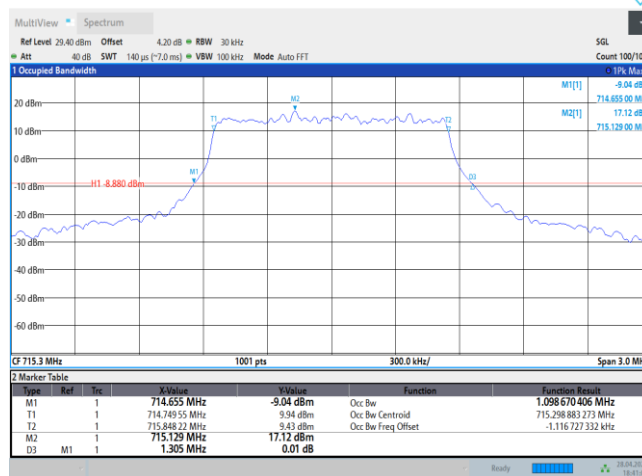
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Band12-1.4MHz-16QAM-23095-6RB#0



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



18:41:06 28.04.2023



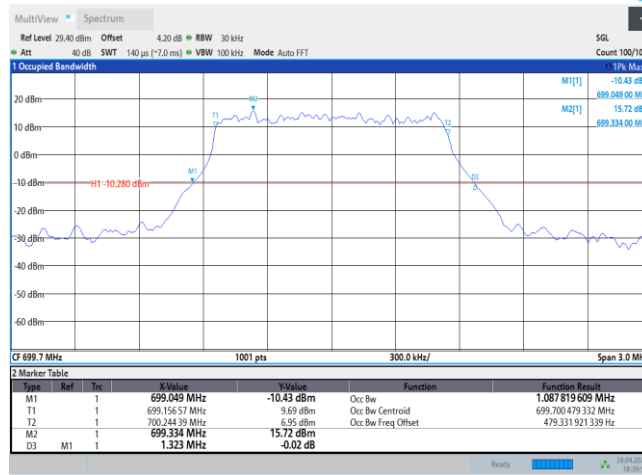
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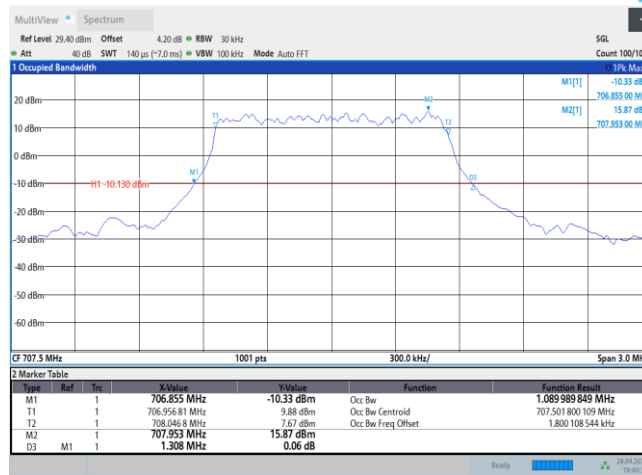
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Band12-1.4MHz-64QAM-23017-6RB#0



18:39:55 28.04.2023

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



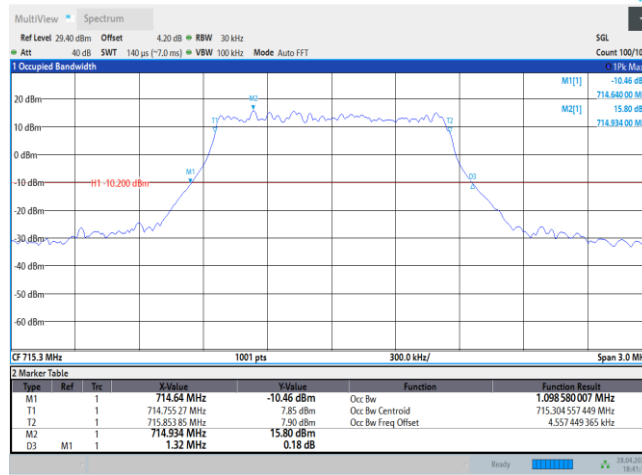
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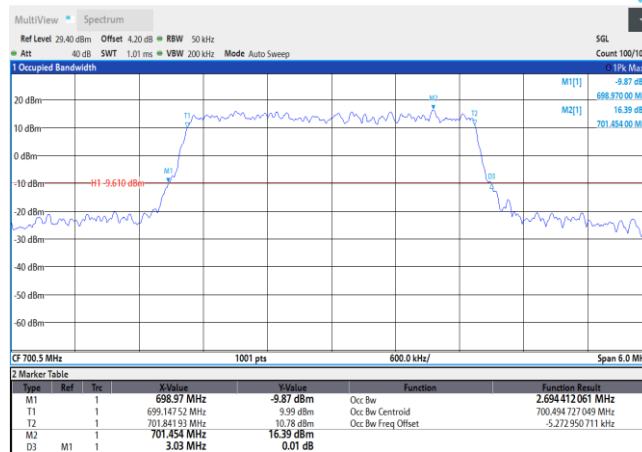
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Band12-1.4MHz-64QAM-23173-6RB#0



18:41:20 28.04.2023

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



18:41:49 28.04.2023



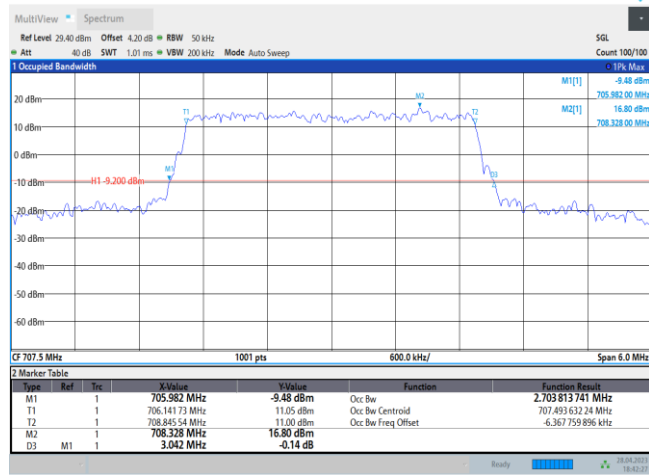
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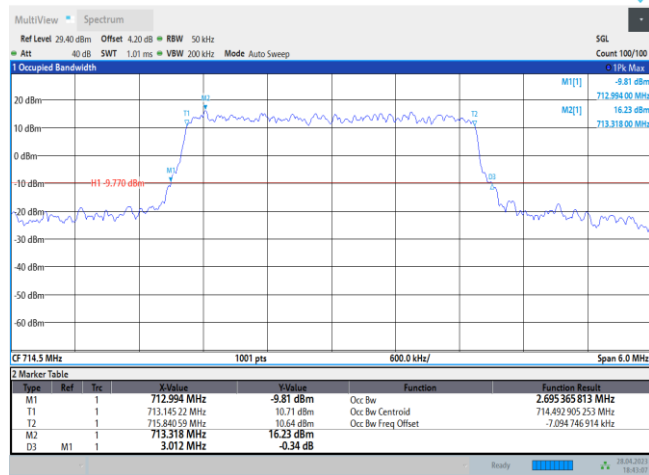
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Band12-3MHz-QPSK-23095-15RB#0



18:42:28 28.04.2023

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



18:43:08 28.04.2023

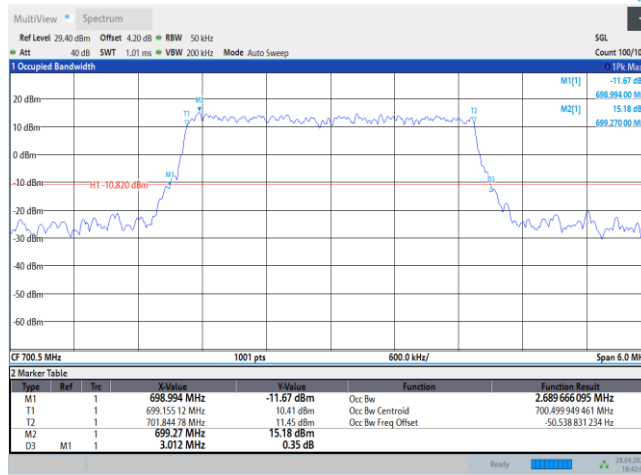


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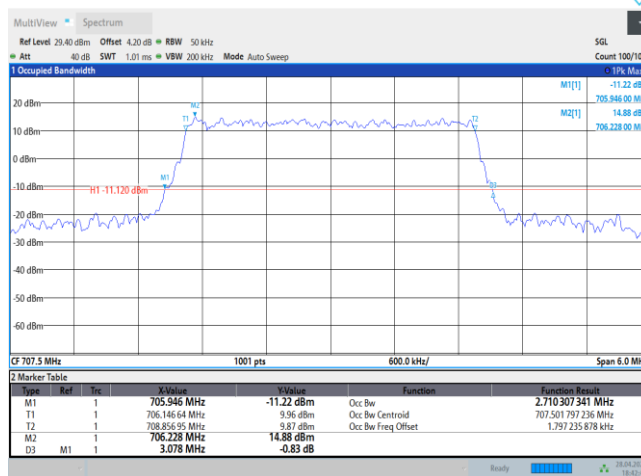
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Band12-3MHz-16QAM-23025-15RB#0



18:42:02 28.04.2023

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



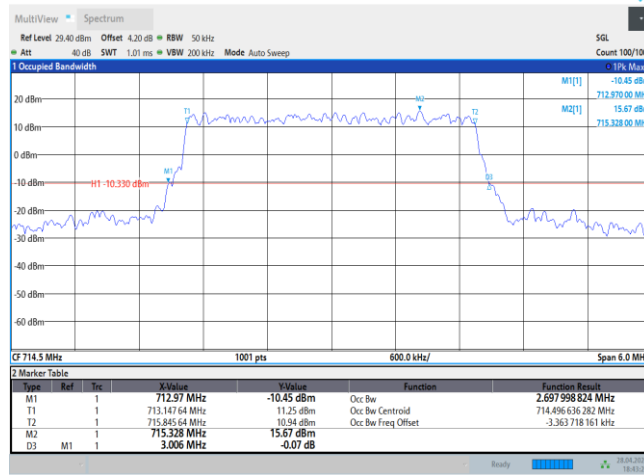
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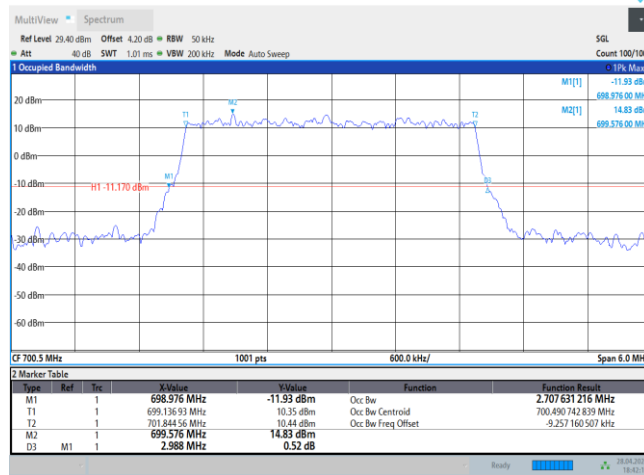
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Band12-3MHz-16QAM-23165-15RB#0



18:43:21 28.04.2023

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



18:42:15 28.04.2023

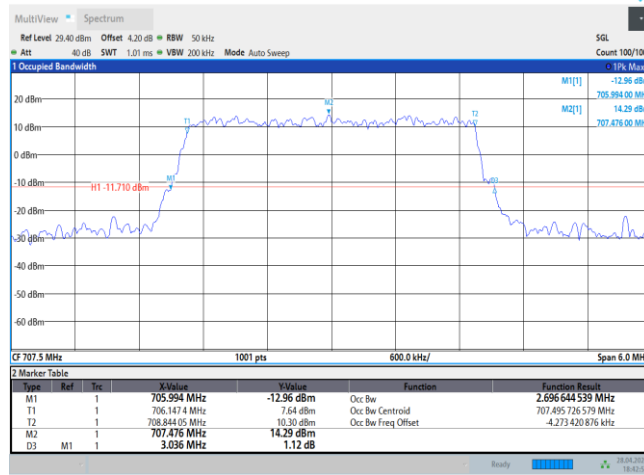


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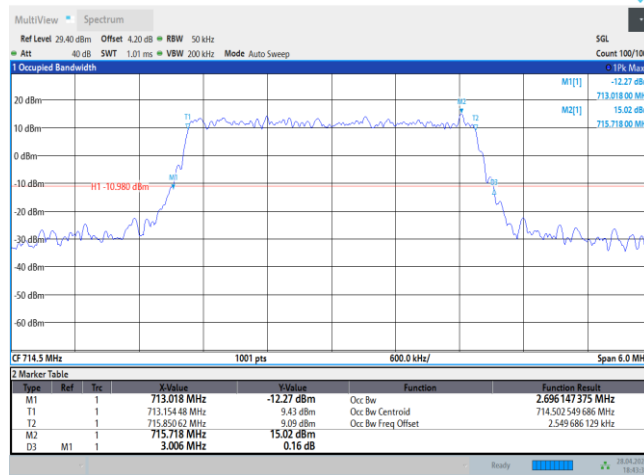
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18:42:54 28.04.2023

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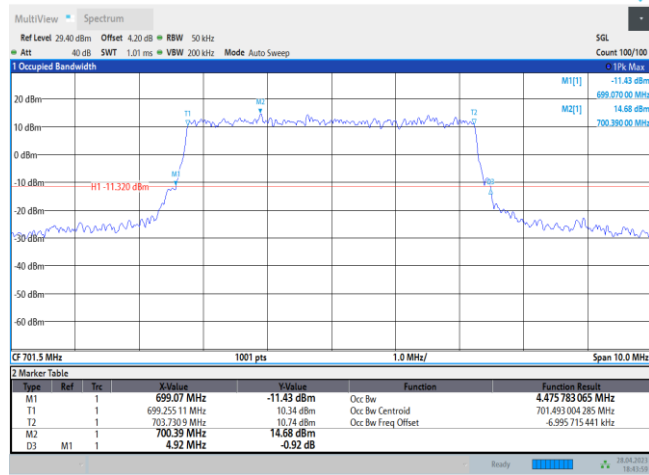


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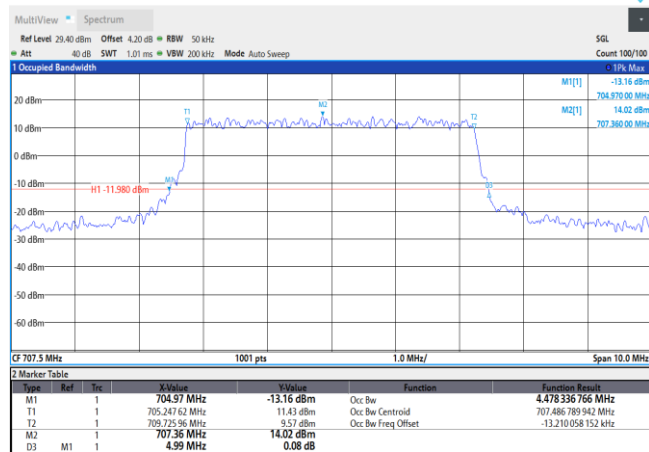
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Band12-5MHz-QPSK-23035-25RB#0



18:44:00 28.04.2023

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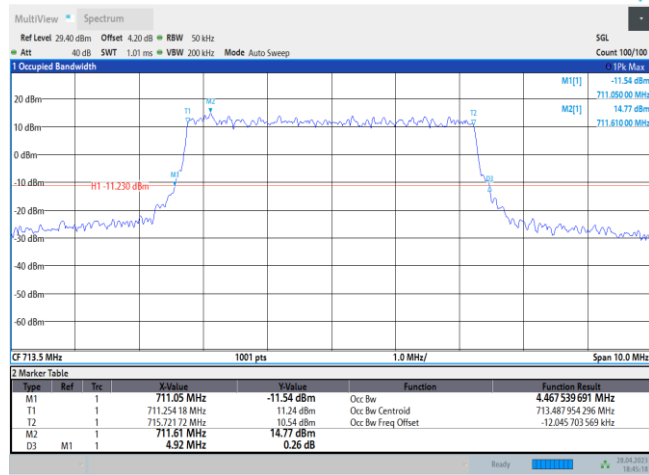


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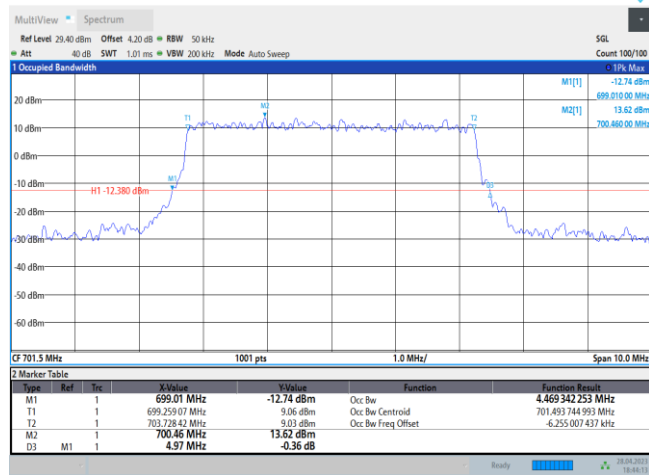
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Band12-5MHz-QPSK-23155-25RB#0



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



18:44:13 28.04.2023



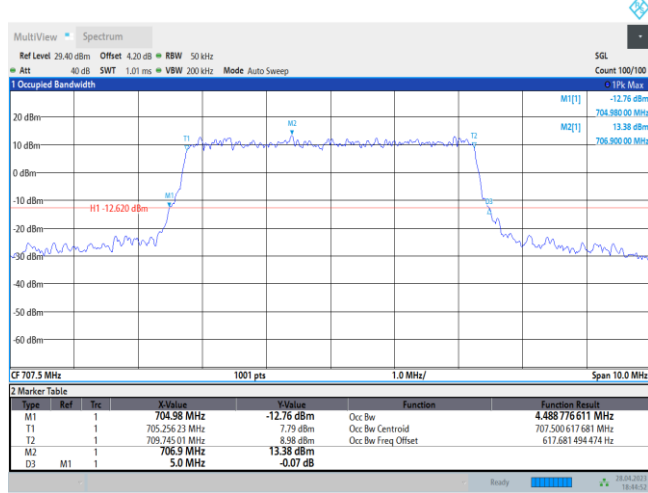
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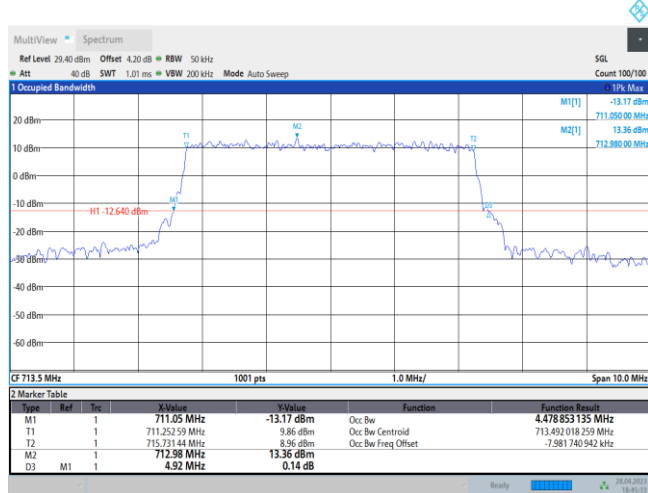
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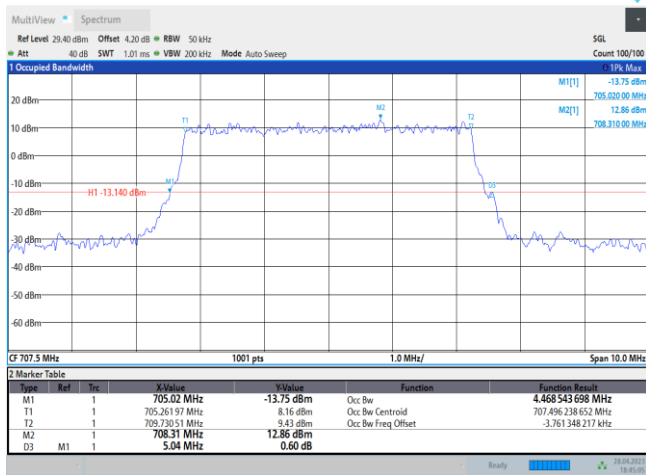
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Band12-5MHz-64QAM-23035-25RB#0



18:44:26 28.04.2023

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



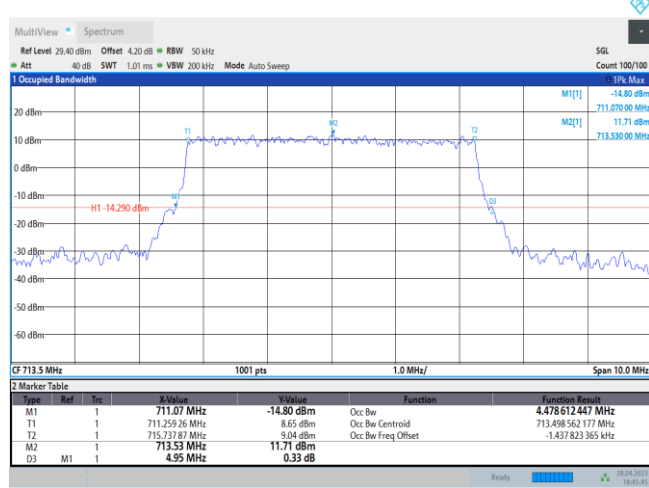
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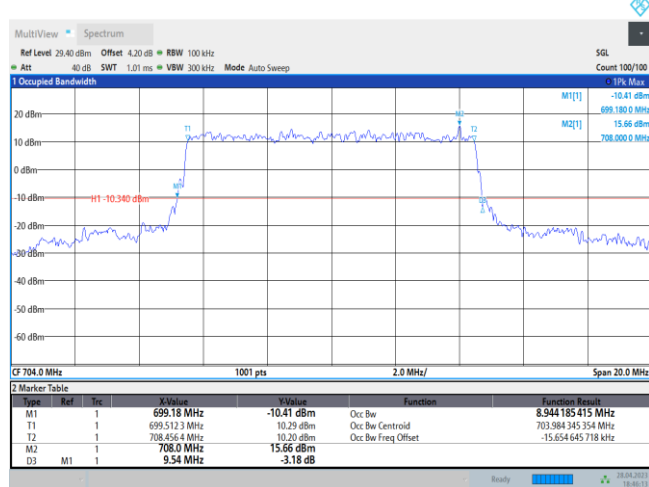
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Band12-5MHz-64QAM-23155-25RB#0



18:45:45 28.04.2023

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



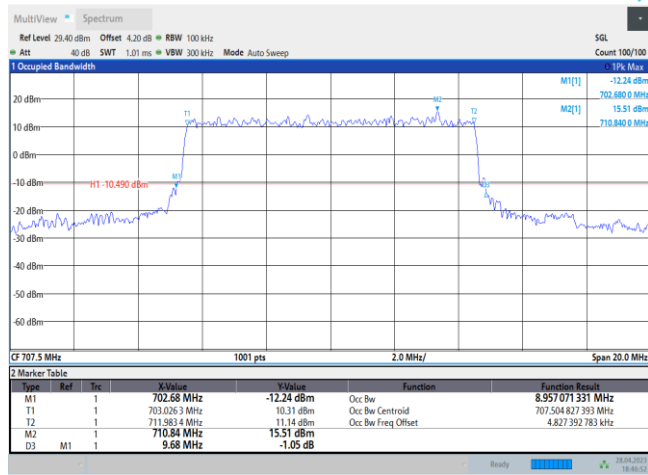
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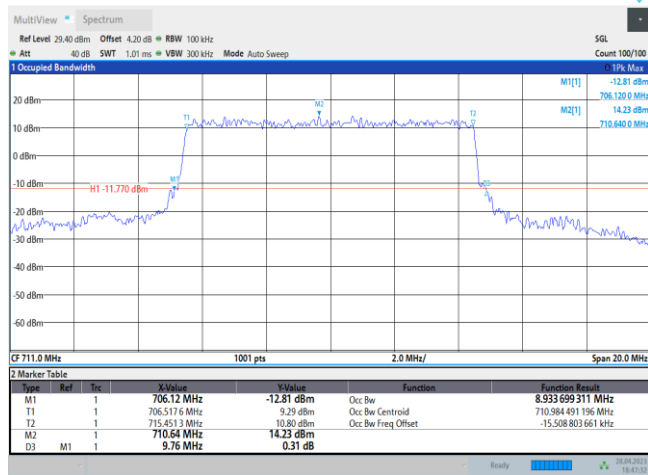
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Band12-10MHz-QPSK-23095-50RB#0



18:46:53 28.04.2023

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



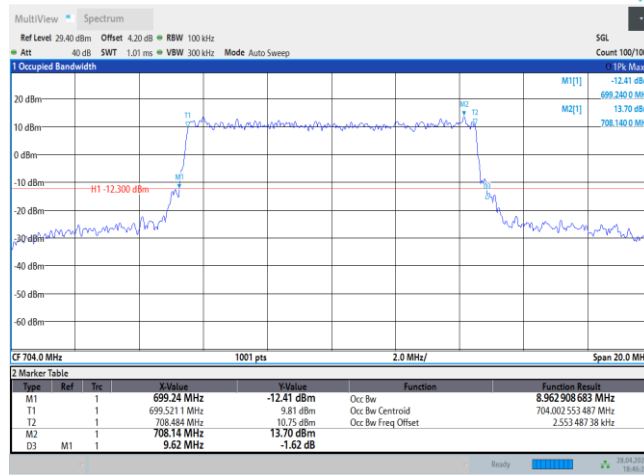
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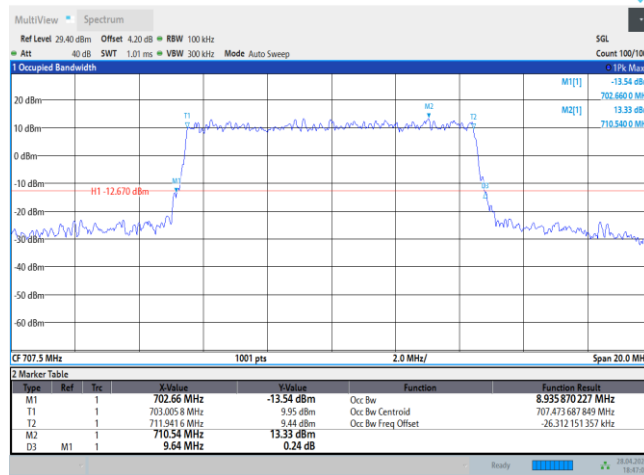
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Band12-10MHz-16QAM-23060-50RB#0



18:46:26 28.04.2023

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



18:47:06 28.04.2023



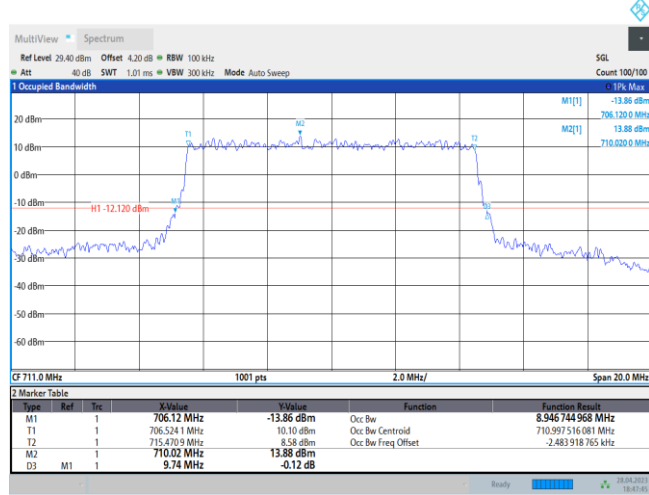
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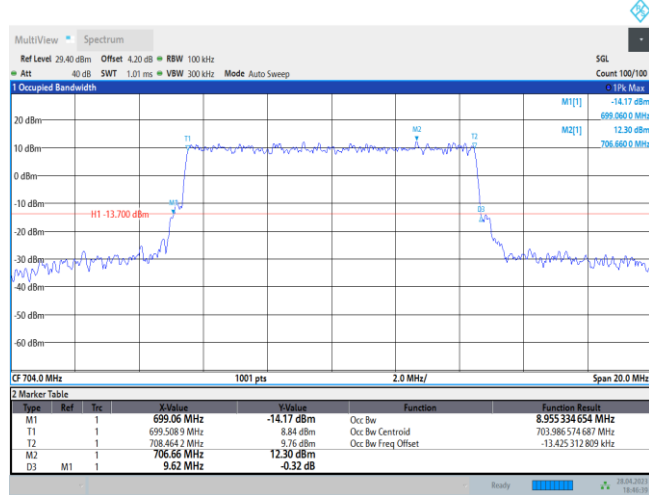
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Band12-10MHz-16QAM-23130-50RB#0



18:47:45 28.04.2023

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



18:46:39 28.04.2023



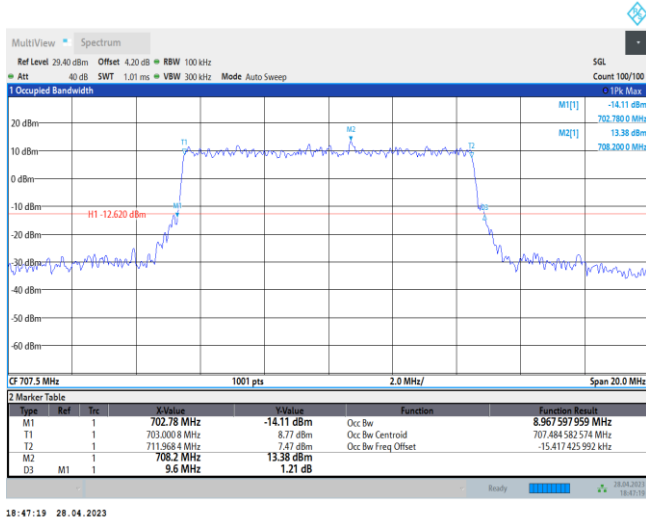
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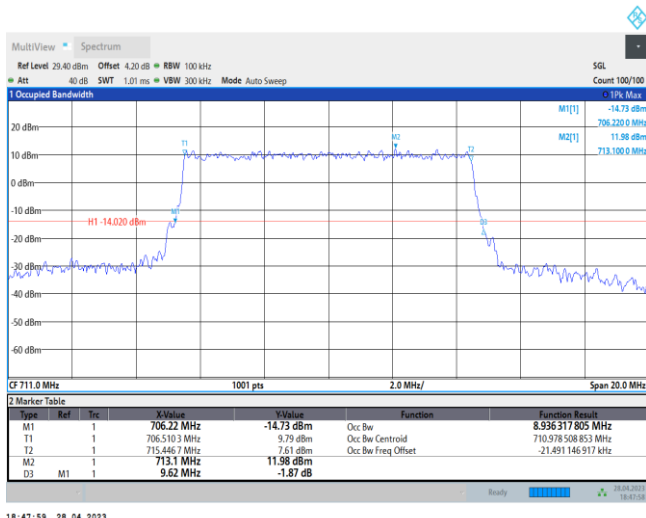
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Band12-10MHz-64QAM-23095-50RB#0



18:47:19 28.04.2023

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



18:47:59 28.04.2023



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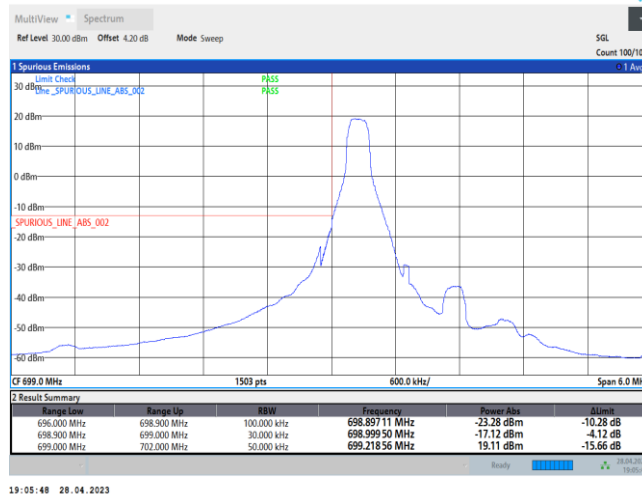
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Band Edge

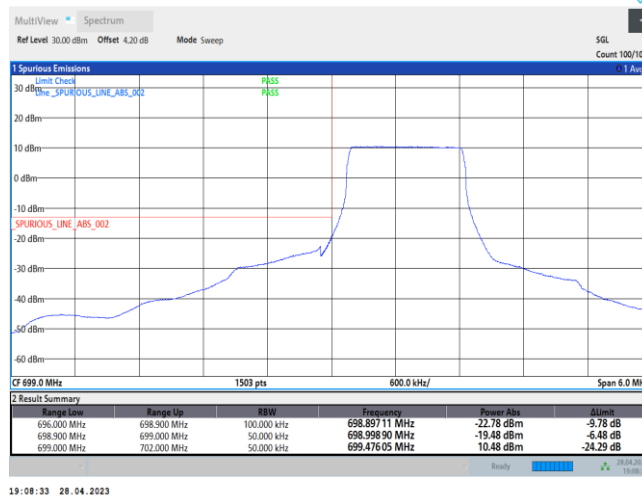
Test Graphs

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



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



19:08:33 28.04.2023

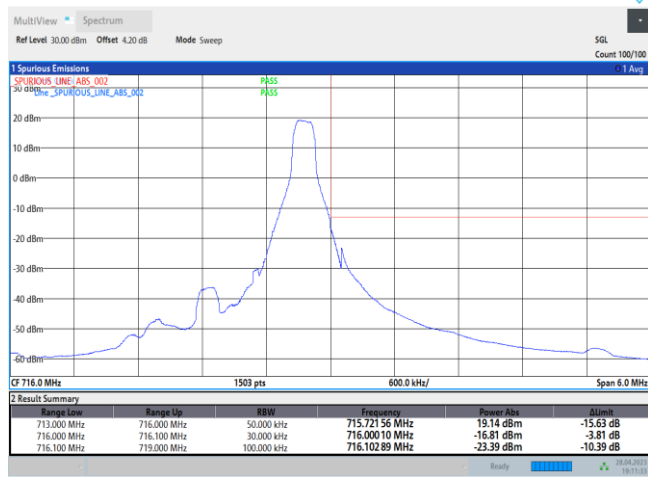


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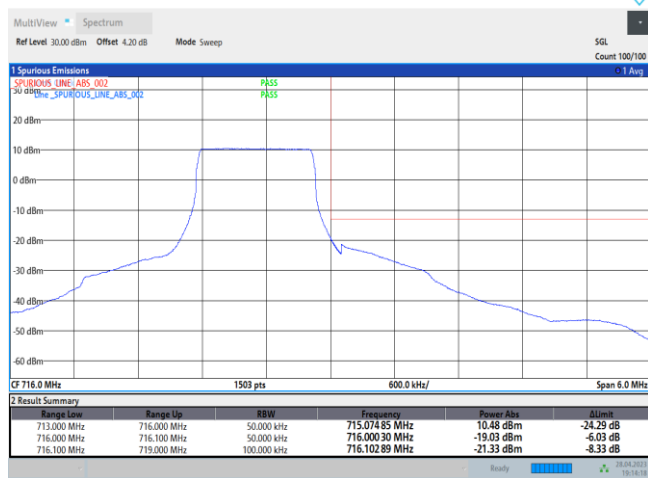
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Band12-1.4MHz-QPSK-23173-1RB#5



19:11:34 28.04.2023

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



19:14:19 28.04.2023

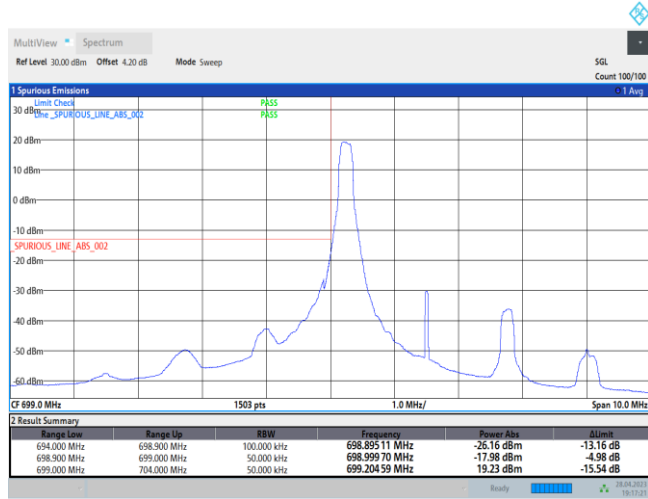


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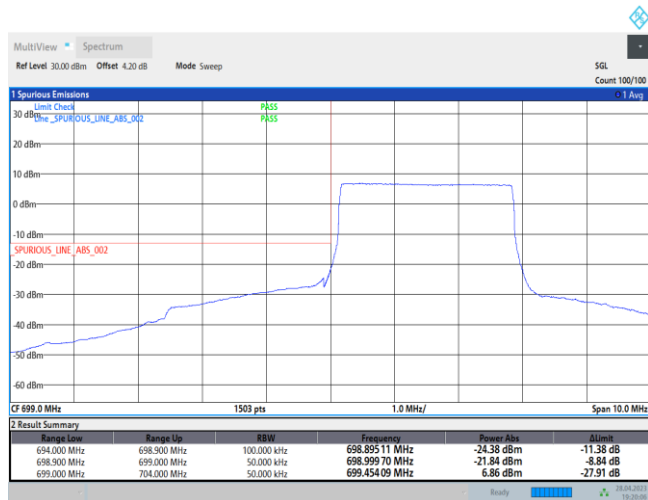
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Band12-3MHz-QPSK-23025-1RB#0



19:17:22 28.04.2023

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



19:20:06 28.04.2023

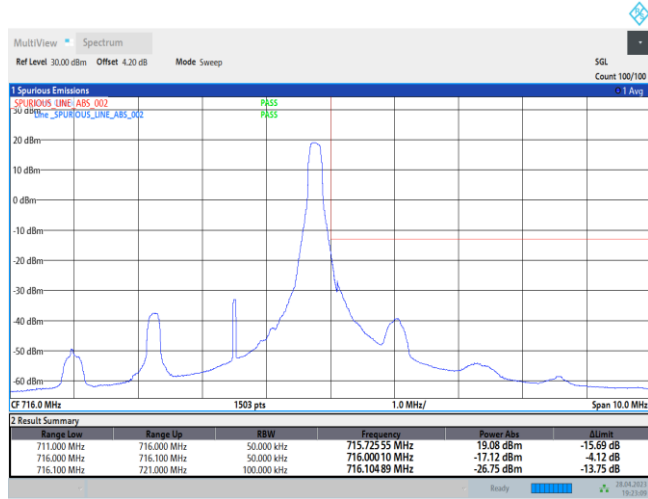


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Band12-3MHz-QPSK-23165-1RB#14



19:23:10 28.04.2023

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



19:25:55 28.04.2023

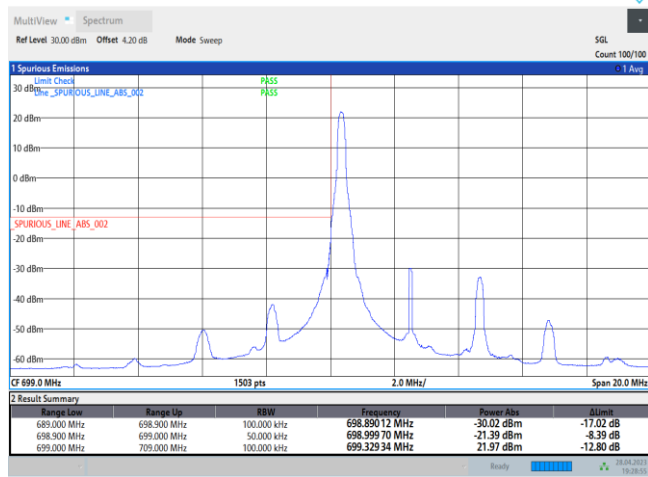


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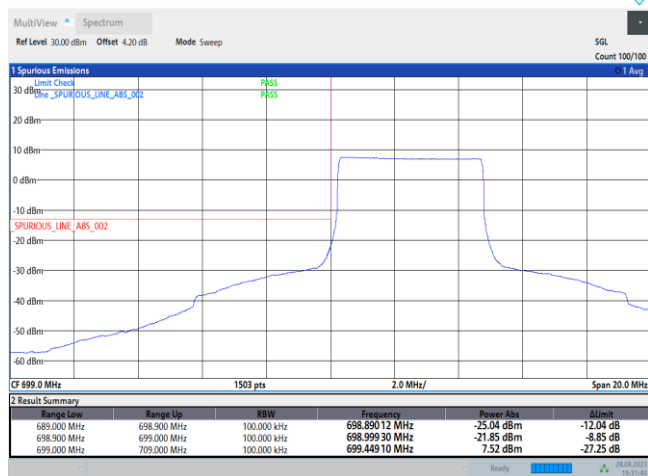
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Band12-5MHz-QPSK-23035-1RB#0



19:28:56 28.04.2023

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



19:31:41 28.04.2023

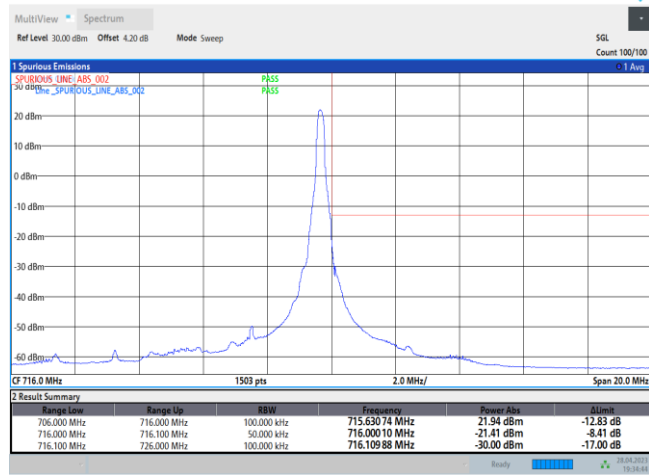


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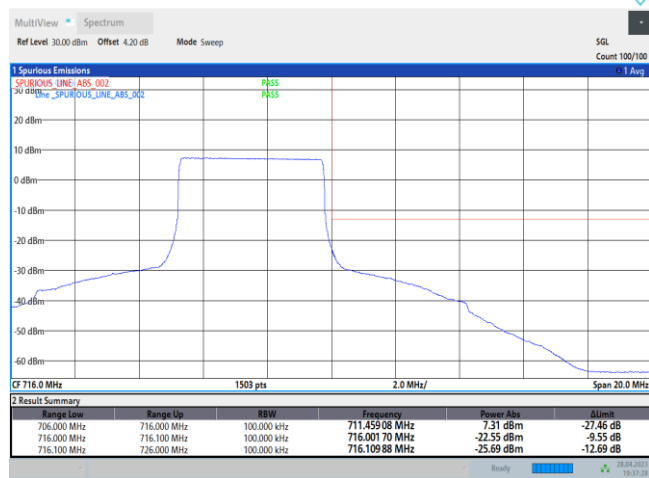
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Band12-5MHz-QPSK-23155-1RB#24



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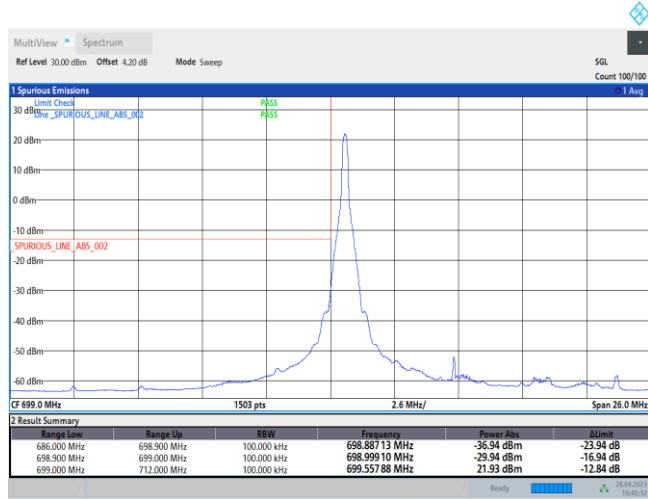


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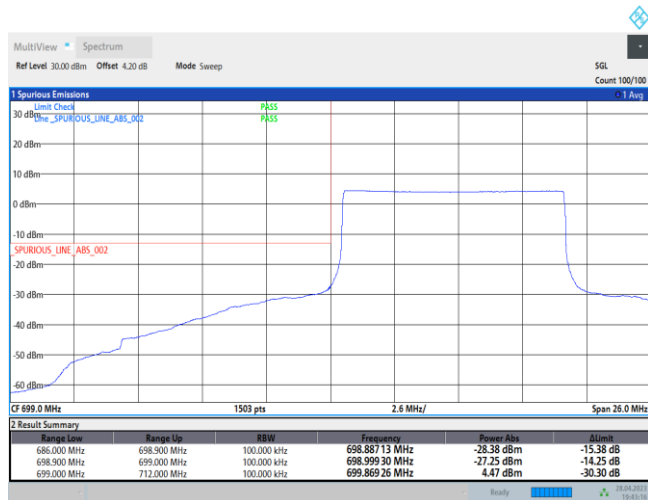
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Band12-10MHz-QPSK-23060-1RB#0



19:40:33 28.04.2023

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



19:43:16 28.04.2023

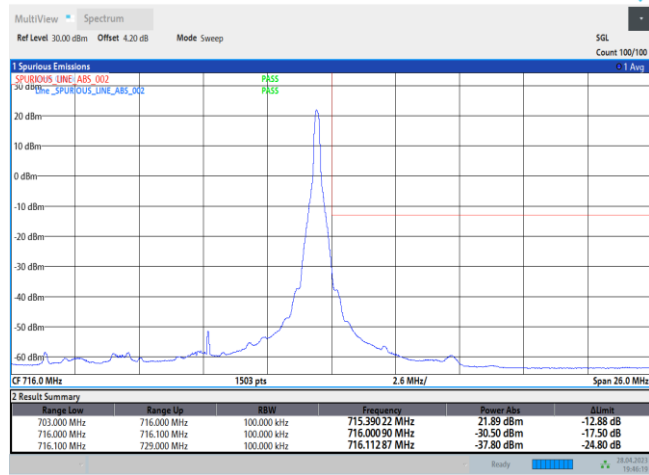


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Band12-10MHz-QPSK-23130-1RB#49



19:46:20 28.04.2023

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



19:49:04 28.04.2023



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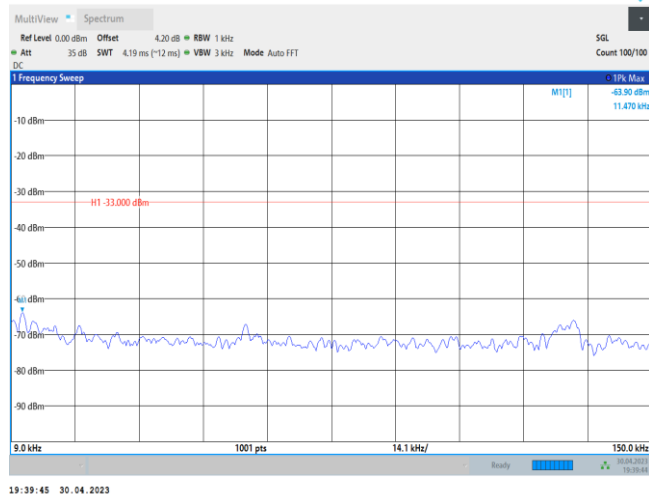
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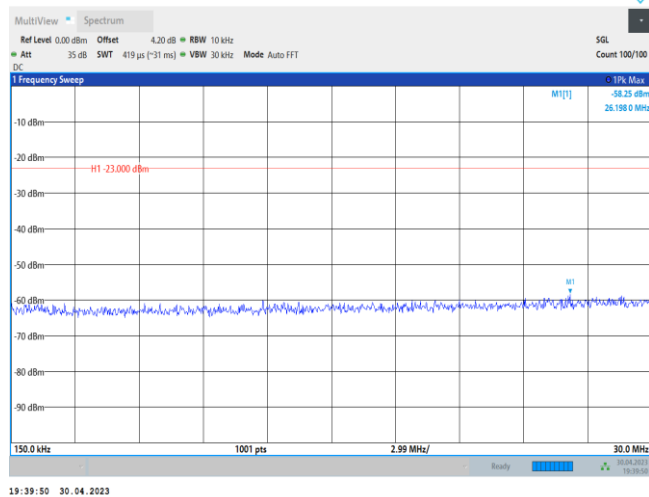
Conducted Spurious Emission

Test Graphs

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



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

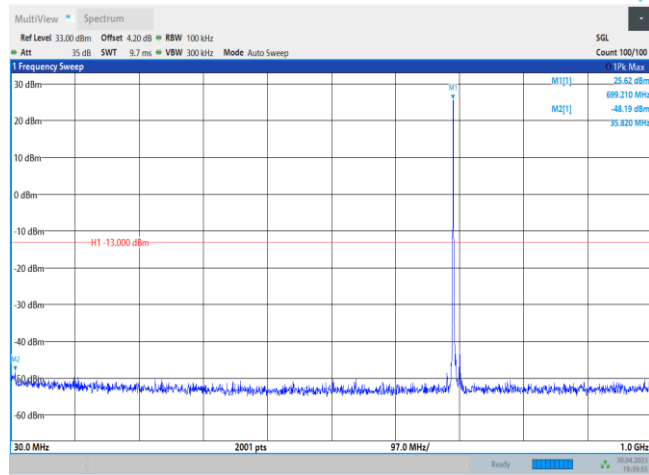


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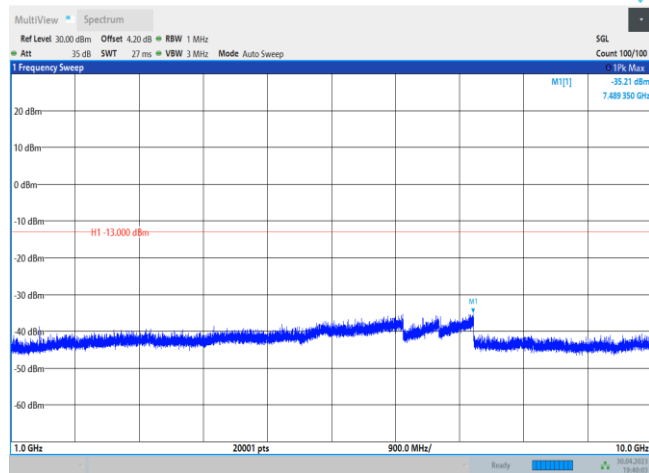
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



19:39:56 30.04.2023

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



19:40:04 30.04.2023

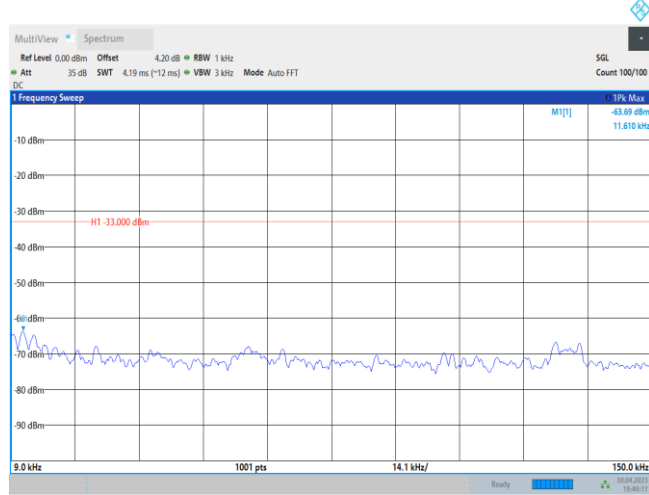


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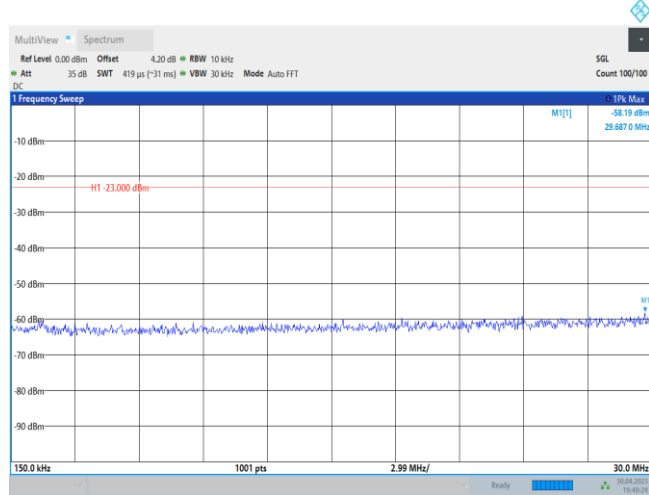
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



19:40:18 30.04.2023

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



19:40:24 30.04.2023



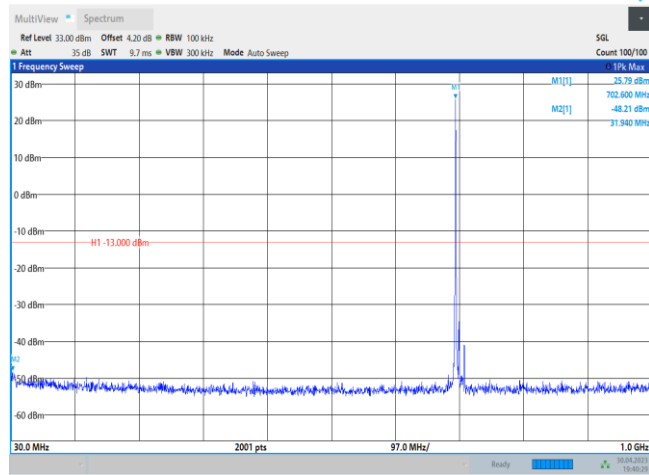
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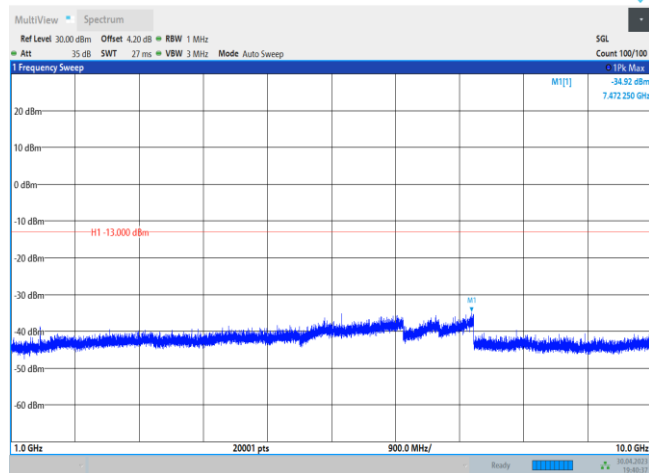
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



19:40:30 30.04.2023

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



19:40:38 30.04.2023

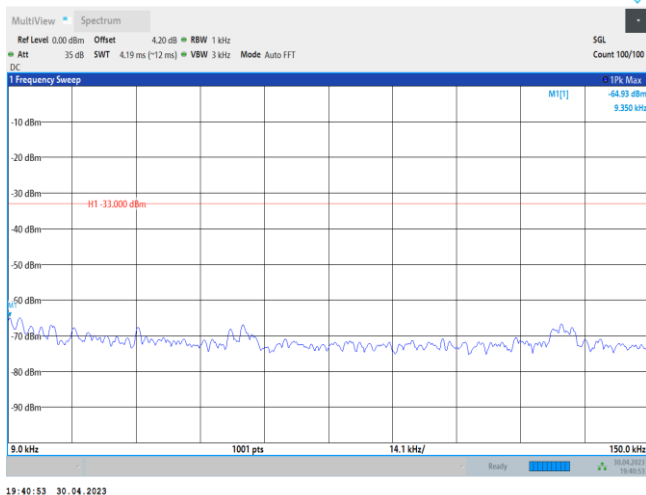


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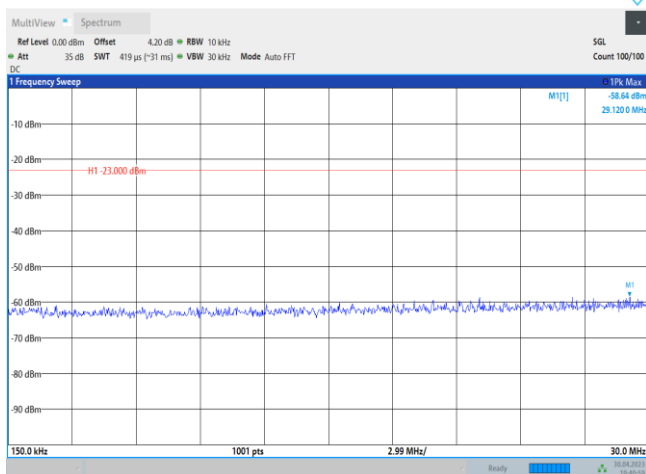
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



19:40:53 30.04.2023

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



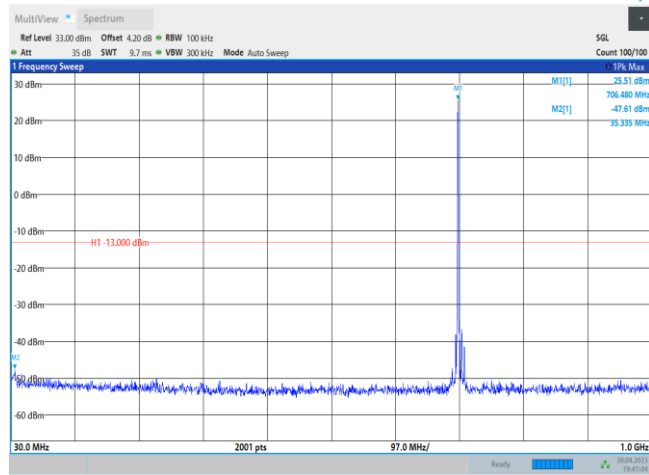
19:40:59 30.04.2023



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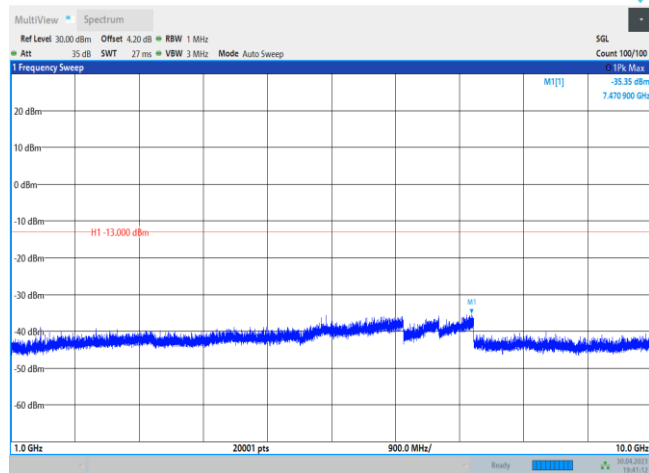
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



19:41:04 30.04.2023

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



19:41:13 30.04.2023



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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	1399.1800	44.16	-48.00	25.62	-73.48	-13.00	60.48	211	159	Horizontal
2	2098.7700	43.37	-47.71	26.99	-72.62	-13.00	59.62	147	359	Horizontal
3	2798.3600	43.33	-46.92	28.48	-70.37	-13.00	57.37	145	341	Horizontal
4	3497.9500	42.87	-46.54	29.52	-69.41	-13.00	56.41	126	289	Horizontal
5	4197.5400	41.53	-45.96	31.10	-68.59	-13.00	55.59	185	184	Horizontal
6	4897.1300	42.52	-45.58	32.59	-65.73	-13.00	52.73	153	212	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	45.00	-48.00	25.62	-72.64	-13.00	59.64	215	96	Vertical
2	2098.7700	44.07	-47.71	26.99	-71.92	-13.00	58.92	145	18	Vertical
3	2798.3600	43.27	-46.92	28.48	-70.43	-13.00	57.43	169	255	Vertical
4	3497.9500	42.59	-46.54	29.52	-69.69	-13.00	56.69	182	228	Vertical
5	4197.5400	41.23	-45.96	31.10	-68.89	-13.00	55.89	142	202	Vertical
6	4897.1300	42.81	-45.58	32.59	-65.44	-13.00	52.44	162	269	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	1406.1800	44.40	-48.02	25.61	-73.27	-13.00	60.27	218	360	Horizontal
2	2109.2700	43.77	-47.71	27.02	-72.17	-13.00	59.17	145	360	Horizontal
3	2812.3600	42.91	-46.88	28.53	-70.69	-13.00	57.69	196	225	Horizontal
4	3515.4500	43.06	-46.51	29.53	-69.17	-13.00	56.17	175	159	Horizontal
5	4218.5400	41.85	-45.93	31.14	-68.20	-13.00	55.20	142	341	Horizontal
6	4921.6300	42.33	-45.63	32.66	-65.90	-13.00	52.90	230	251	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	44.30	-48.02	25.61	-73.37	-13.00	60.37	255	357	Vertical
2	2109.2700	44.03	-47.71	27.02	-71.91	-13.00	58.91	147	175	Vertical
3	2812.3600	43.43	-46.88	28.53	-70.17	-13.00	57.17	185	322	Vertical
4	3515.4500	42.67	-46.51	29.53	-69.56	-13.00	56.56	196	29	Vertical
5	4218.5400	41.86	-45.93	31.14	-68.19	-13.00	55.19	251	9	Vertical
6	4921.6300	42.32	-45.63	32.66	-65.91	-13.00	52.91	143	243	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

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	1413.1800	44.70	-48.04	25.60	-73.00	-13.00	60.00	266	360	Horizontal
2	2119.7700	43.01	-47.70	27.06	-72.89	-13.00	59.89	235	277	Horizontal
3	2826.3600	43.27	-46.83	28.60	-70.22	-13.00	57.22	145	132	Horizontal
4	3532.9500	42.87	-46.47	29.55	-69.31	-13.00	56.31	128	132	Horizontal
5	4239.5400	42.05	-45.89	31.18	-67.92	-13.00	54.92	199	360	Horizontal
6	4946.1300	41.51	-45.69	32.73	-66.71	-13.00	53.71	261	331	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	44.65	-48.04	25.60	-73.05	-13.00	60.05	211	1	Vertical
2	2119.7700	42.71	-47.70	27.06	-73.19	-13.00	60.19	147	189	Vertical
3	2826.3600	43.67	-46.83	28.60	-69.82	-13.00	56.82	185	30	Vertical
4	3532.9500	42.49	-46.47	29.55	-69.69	-13.00	56.69	163	0	Vertical
5	4239.5400	42.15	-45.89	31.18	-67.82	-13.00	54.82	251	42	Vertical
6	4946.1300	41.97	-45.69	32.73	-66.25	-13.00	53.25	149	0	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band12_10MHz _ TM1

Test Channel = Low ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	44.89	-48.00	25.62	-72.75	-13.00	59.75	144	145	Horizontal
2	2098.7700	43.50	-47.71	26.99	-72.49	-13.00	59.49	158	4	Horizontal
3	2798.3600	43.02	-46.92	28.48	-70.68	-13.00	57.68	175	13	Horizontal
4	3497.9500	43.08	-46.54	29.52	-69.20	-13.00	56.20	142	118	Horizontal
5	4197.5400	41.35	-45.96	31.10	-68.77	-13.00	55.77	136	104	Horizontal
6	4897.1300	41.99	-45.58	32.59	-66.26	-13.00	53.26	259	210	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	44.48	-48.00	25.62	-73.16	-13.00	60.16	111	98	Vertical
2	2098.7700	43.40	-47.71	26.99	-72.59	-13.00	59.59	174	0	Vertical
3	2798.3600	43.29	-46.92	28.48	-70.41	-13.00	57.41	158	163	Vertical
4	3497.9500	43.35	-46.54	29.52	-68.93	-13.00	55.93	182	283	Vertical
5	4197.5400	41.41	-45.96	31.10	-68.71	-13.00	55.71	156	31	Vertical
6	4897.1300	42.26	-45.58	32.59	-65.99	-13.00	52.99	236	1	Vertical



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Test Band = LTE Band12_10MHz _ TM1

Test Channel = Mid ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	44.81	-48.02	25.61	-72.86	-13.00	59.86	114	3	Horizontal
2	2109.2700	43.37	-47.71	27.02	-72.57	-13.00	59.57	175	38	Horizontal
3	2812.3600	43.36	-46.88	28.53	-70.24	-13.00	57.24	221	340	Horizontal
4	3515.4500	42.64	-46.51	29.53	-69.59	-13.00	56.59	165	3	Horizontal
5	4218.5400	41.82	-45.93	31.14	-68.23	-13.00	55.23	123	182	Horizontal
6	4921.6300	42.64	-45.63	32.66	-65.59	-13.00	52.59	285	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	45.11	-48.02	25.61	-72.56	-13.00	59.56	142	242	Vertical
2	2109.2700	43.40	-47.71	27.02	-72.54	-13.00	59.54	136	357	Vertical
3	2812.3600	43.10	-46.88	28.53	-70.50	-13.00	57.50	259	97	Vertical
4	3515.4500	42.52	-46.51	29.53	-69.71	-13.00	56.71	185	56	Vertical
5	4218.5400	41.64	-45.93	31.14	-68.41	-13.00	55.41	142	0	Vertical
6	4921.6300	42.87	-45.63	32.66	-65.36	-13.00	52.36	136	71	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band12_10MHz _ TM1
Test Channel = High ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	45.00	-48.04	25.60	-72.70	-13.00	59.70	148	117	Horizontal
2	2119.7700	43.90	-47.70	27.06	-72.00	-13.00	59.00	175	184	Horizontal
3	2826.3600	42.93	-46.83	28.60	-70.56	-13.00	57.56	136	350	Horizontal
4	3532.9500	42.58	-46.47	29.55	-69.60	-13.00	56.60	255	158	Horizontal
5	4239.5400	41.80	-45.89	31.18	-68.17	-13.00	55.17	185	158	Horizontal
6	4946.1300	41.51	-45.69	32.73	-66.71	-13.00	53.71	169	197	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	45.18	-48.04	25.60	-72.52	-13.00	59.52	211	18	Vertical
2	2119.7700	43.04	-47.70	27.06	-72.86	-13.00	59.86	145	357	Vertical
3	2826.3600	43.93	-46.83	28.60	-69.56	-13.00	56.56	144	112	Vertical
4	3532.9500	42.55	-46.47	29.55	-69.63	-13.00	56.63	126	348	Vertical
5	4239.5400	42.21	-45.89	31.18	-67.76	-13.00	54.76	236	308	Vertical
6	4946.1300	41.95	-45.69	32.73	-66.27	-13.00	53.27	285	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	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.80	0.001131	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.60	-0.000848	PASS

---End of Attachment---



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com