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Appendix



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
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6号厂房南面 邮编: 215000

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

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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	23.26	18.61	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.06	18.41	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.01	18.36	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.97	18.32	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.09	18.44	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.97	18.32	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.56	17.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.01	18.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.08	18.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.08	18.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.08	18.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.98	18.33	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.03	18.38	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.49	17.84	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.99	18.34	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.85	18.2	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.19	18.54	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.90	18.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.90	18.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.83	18.18	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.42	17.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.76	18.11	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.02	18.37	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.73	18.08	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.32	17.67	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.40	17.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.41	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.71	17.06	34.77	PASS



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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号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
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Band12	1.4MHz	16QAM	23095	1RB#0	23.25	18.6	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.73	18.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.06	18.41	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.47	17.82	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.26	17.61	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.57	17.92	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.67	17.02	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.59	17.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.97	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.60	17.95	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.17	17.52	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.26	17.61	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.25	17.6	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.49	16.84	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.98	18.33	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.01	18.36	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.19	18.54	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.61	17.96	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.61	17.96	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.57	17.92	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.60	17.95	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.10	18.45	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.21	18.56	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.08	18.43	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.62	17.97	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.63	17.98	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.58	17.93	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.56	17.91	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.96	18.31	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.87	18.22	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.82	18.17	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.48	17.83	34.77	PASS



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Band12	3MHz	QPSK	23165	8RB#4	22.50	17.85	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.43	17.78	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.41	17.76	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.58	17.93	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.52	17.87	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.88	18.23	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.56	16.91	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.66	17.01	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.62	16.97	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.53	16.88	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.79	18.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.46	17.81	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.42	17.77	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.74	17.09	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.74	17.09	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.74	17.09	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.48	16.83	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.79	18.14	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.77	18.12	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.72	18.07	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.39	16.74	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.39	16.74	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.46	16.81	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.35	16.7	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.90	18.25	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.37	18.72	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.10	18.45	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.62	17.97	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.62	17.97	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.65	18	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.68	18.03	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.19	18.54	34.77	PASS



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Band12	5MHz	QPSK	23095	1RB#12	23.25	18.6	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.91	18.26	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.64	17.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.65	18	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.52	17.87	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.60	17.95	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.98	18.33	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.94	18.29	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.61	17.96	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.50	17.85	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.51	17.86	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.44	17.79	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.38	17.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.38	17.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.48	17.83	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.36	17.71	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.62	16.97	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.62	16.97	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.66	17.01	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.70	17.05	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.86	18.21	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.64	17.99	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.49	17.84	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.71	17.06	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.72	17.07	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.70	17.05	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.58	16.93	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.64	17.99	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.55	17.9	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.31	17.66	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.42	16.77	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.43	16.78	34.77	PASS



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Band12	5MHz	16QAM	23155	12RB#13	21.28	16.63	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.58	16.93	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.92	18.27	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.14	18.49	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.94	18.29	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.72	18.07	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.72	18.07	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.55	17.9	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.73	18.08	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.97	18.32	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.04	18.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.69	18.04	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.65	18	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.66	18.01	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.65	18	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.59	17.94	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.10	18.45	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.35	18.7	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.72	18.07	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.62	17.97	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.63	17.98	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.55	17.9	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.54	17.89	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.60	17.95	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.67	18.02	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.61	17.96	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.61	16.96	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.61	16.96	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.64	16.99	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.71	17.06	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.51	17.86	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.93	18.28	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#49	22.50	17.85	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.68	17.03	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.68	17.03	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.68	17.03	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.61	16.96	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.76	18.11	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.70	18.05	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.41	17.76	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.77	17.12	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.66	17.01	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.48	16.83	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.65	17	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	4.76	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.86	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.76	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.68	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.64	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.68	13	PASS



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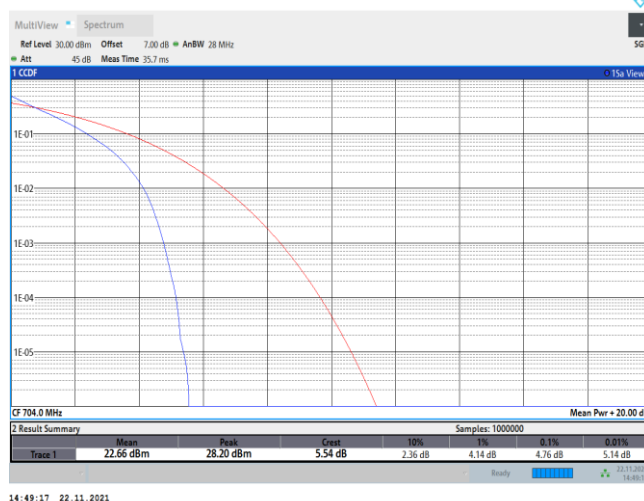
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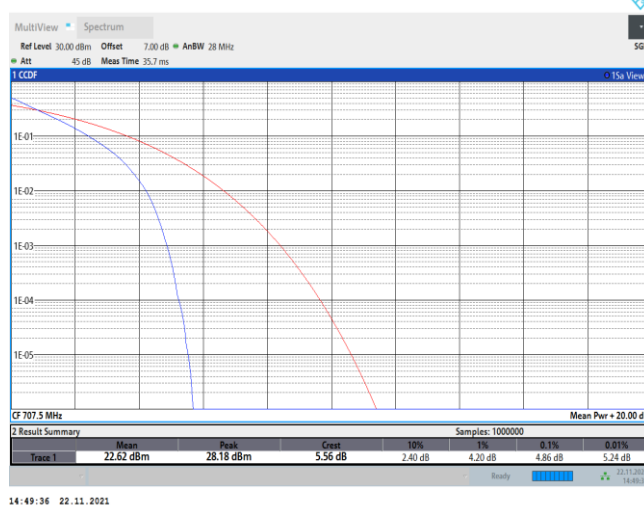
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Test Graphs

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



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



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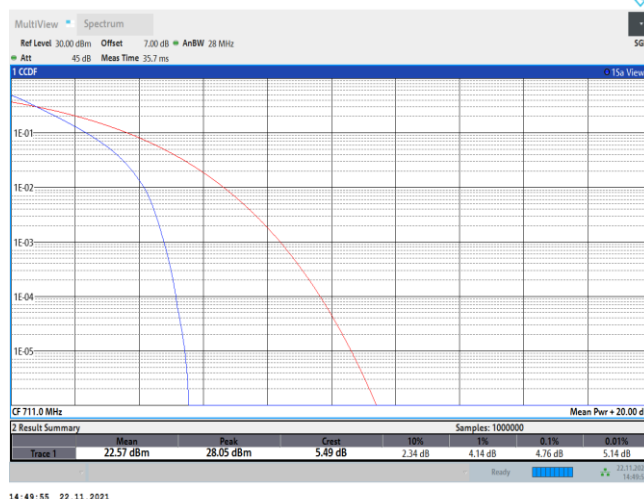
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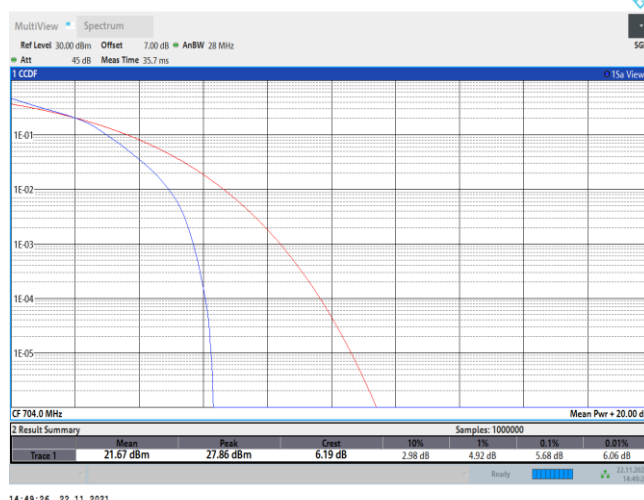
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Band12-10MHz-QPSK-23130-50RB#0



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



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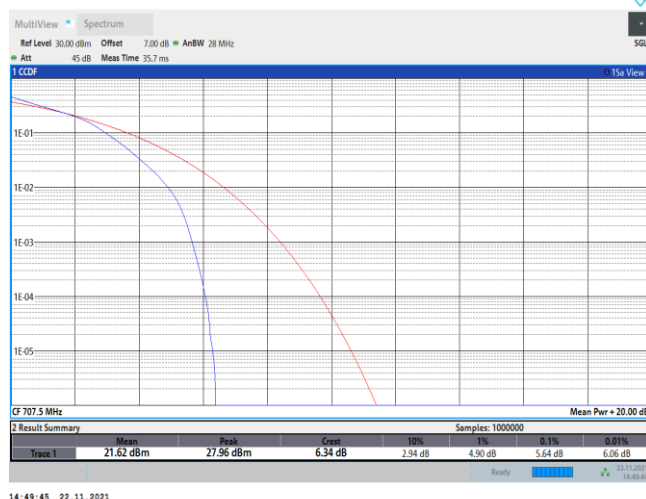
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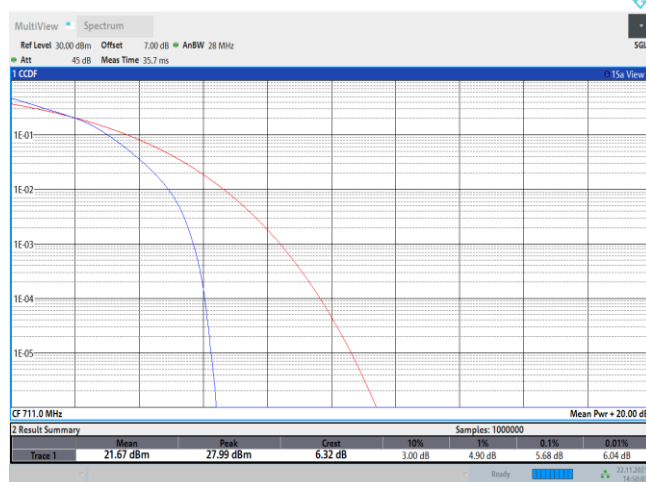
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Band12-10MHz-16QAM-23095-50RB#0



14:49:45 22.11.2021

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



14:50:03 22.11.2021



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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



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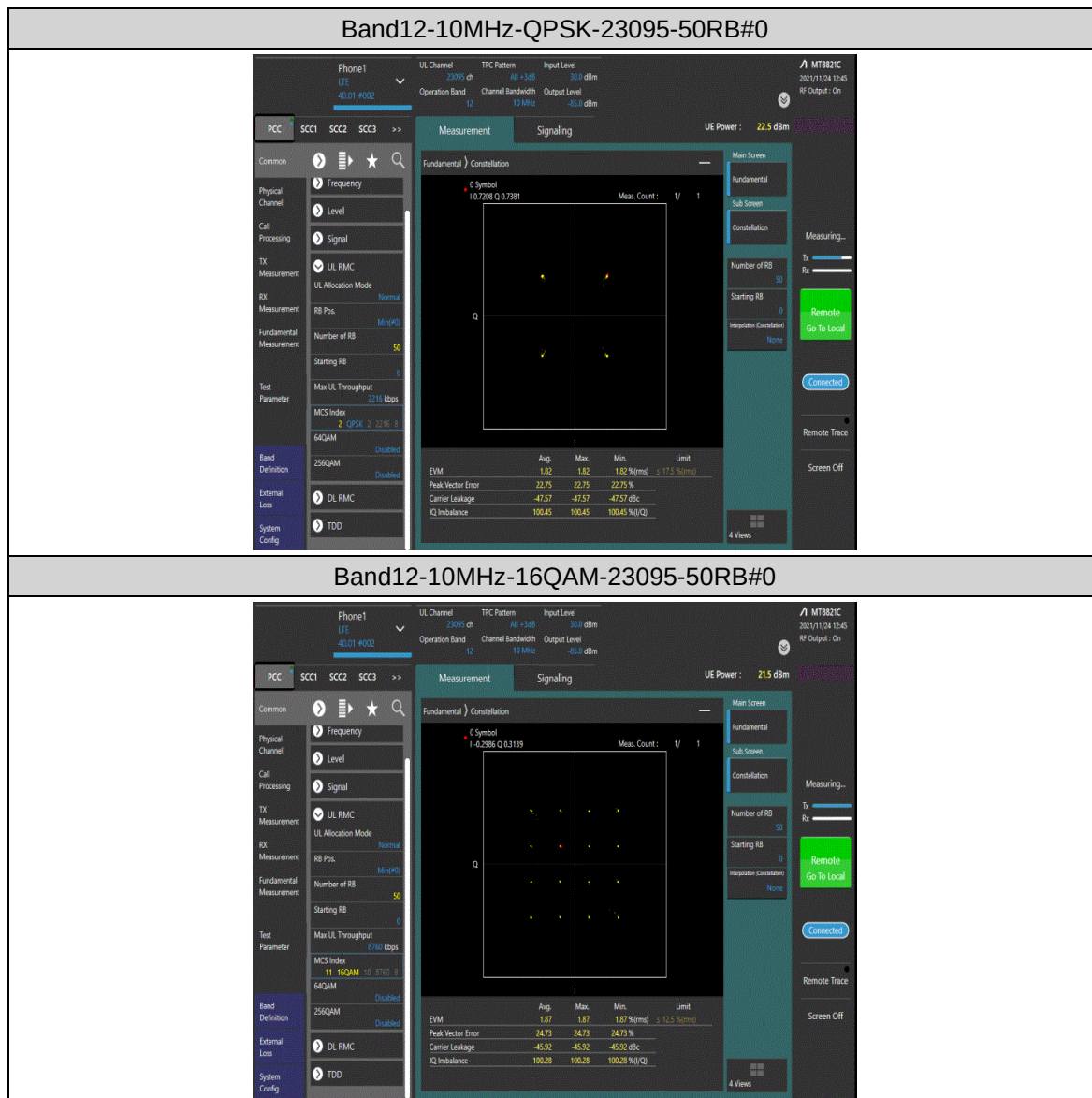
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.097	1.305	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.103	1.290	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.1	1.317	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1	1.317	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.308	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.091	1.287	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.988	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.699	2.976	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.698	2.976	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.693	2.976	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.976	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.695	2.994	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.487	4.950	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.910	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.474	4.940	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.469	4.900	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.478	4.960	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.481	4.940	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.933	9.780	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.926	9.740	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.914	9.660	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.92	9.600	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.922	9.680	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.919	9.700	PASS



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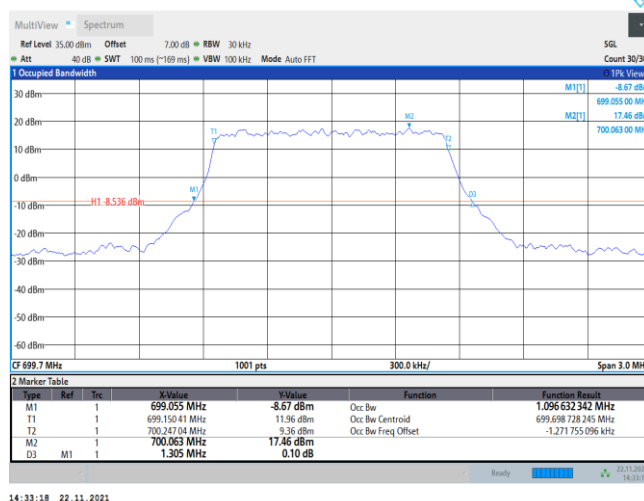
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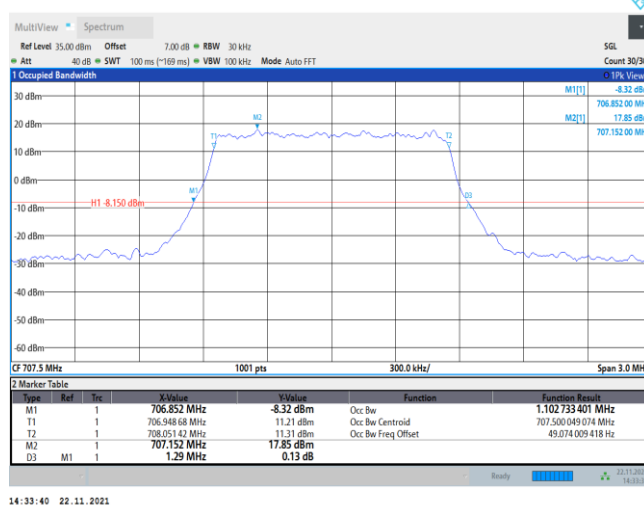
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Test Graphs

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



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



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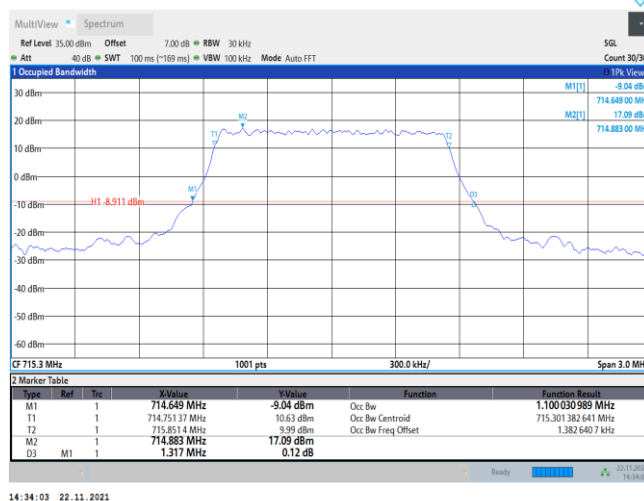
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Band12-1.4MHz-QPSK-23173-6RB#0



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



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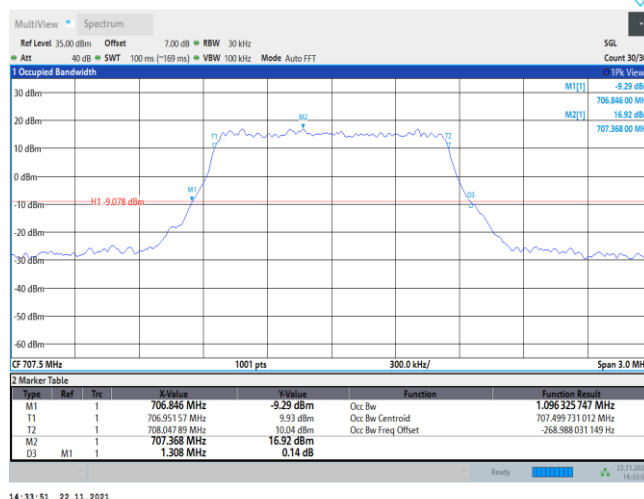
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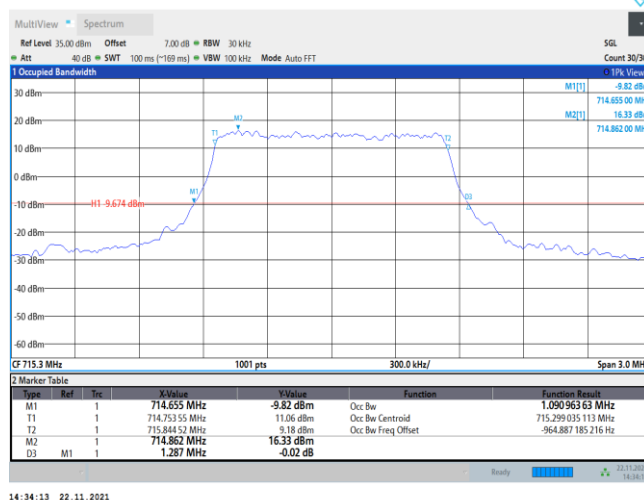
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Band12-1.4MHz-16QAM-23095-6RB#0



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



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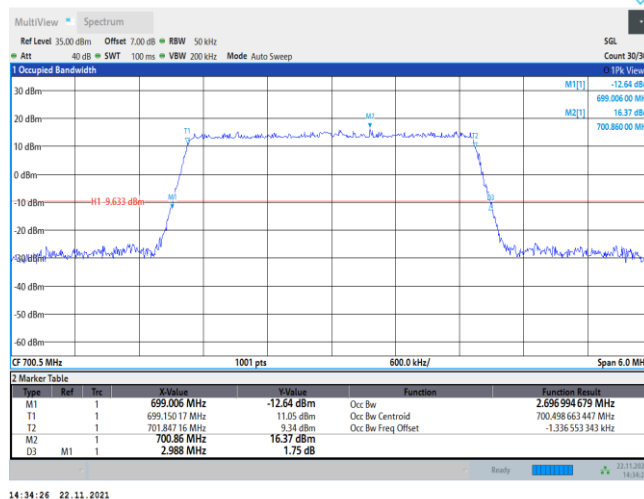
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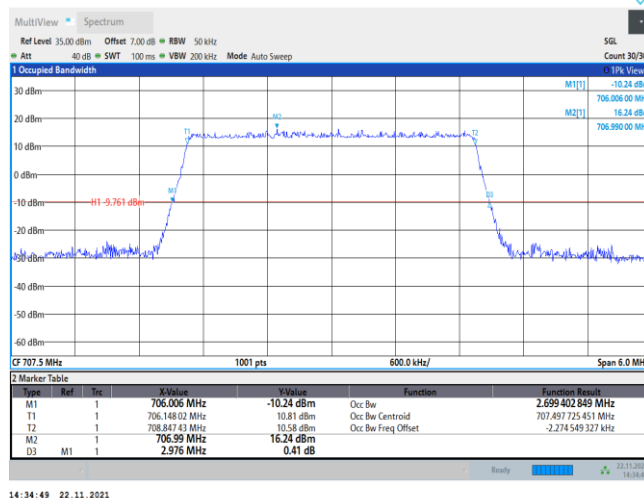
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Band12-3MHz-QPSK-23025-15RB#0



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



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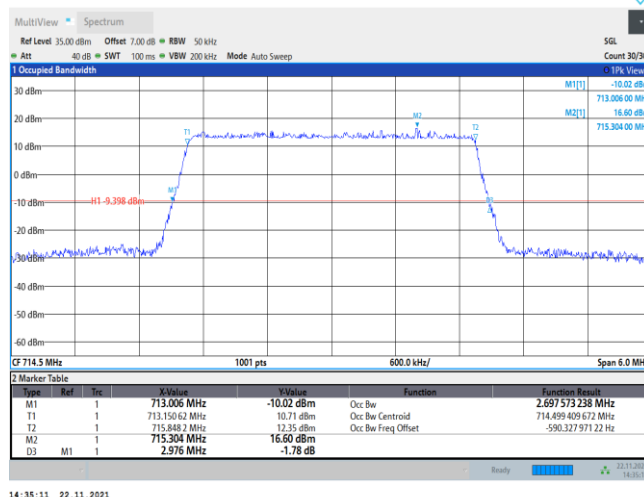
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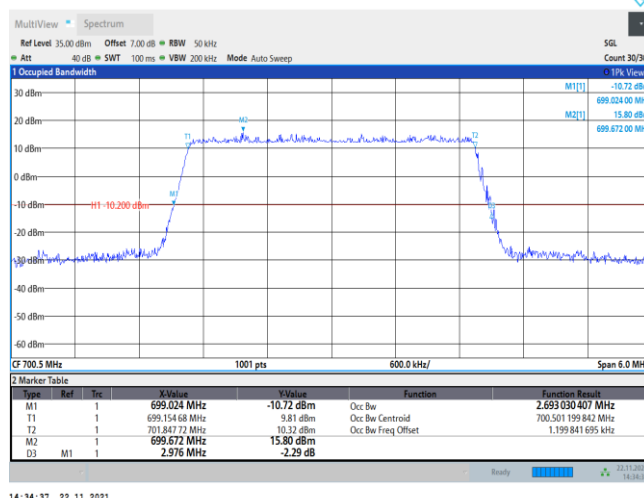
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Band12-3MHz-QPSK-23165-15RB#0



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



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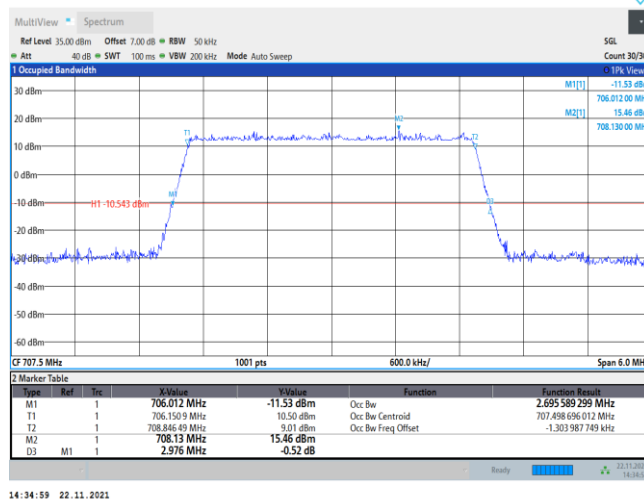
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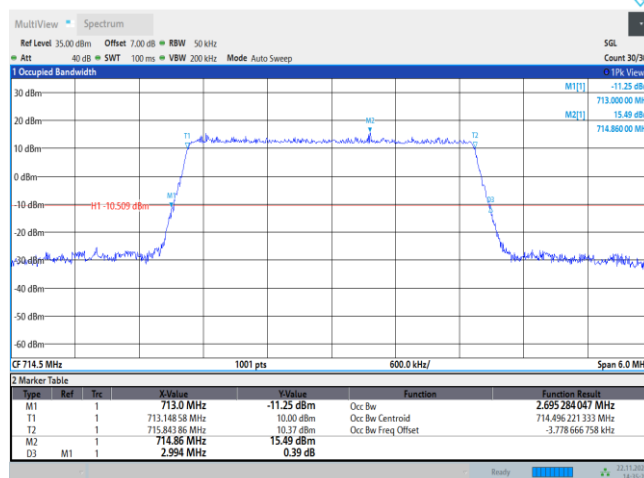
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Band12-3MHz-16QAM-23095-15RB#0



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



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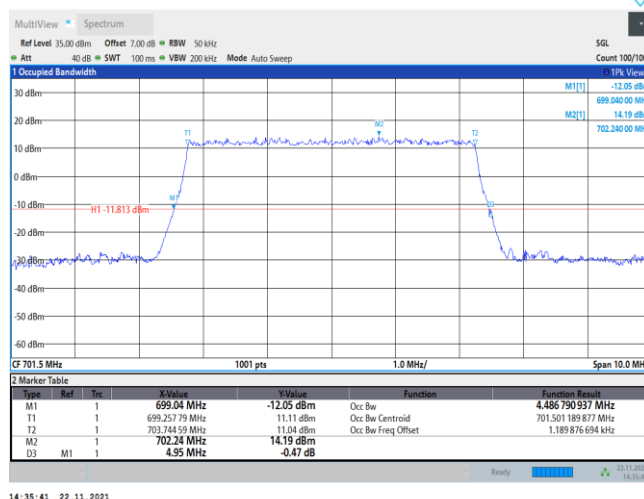
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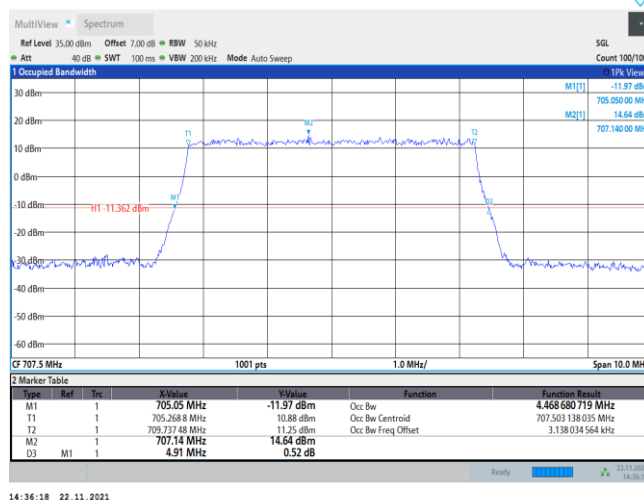
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Band12-5MHz-QPSK-23035-25RB#0



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



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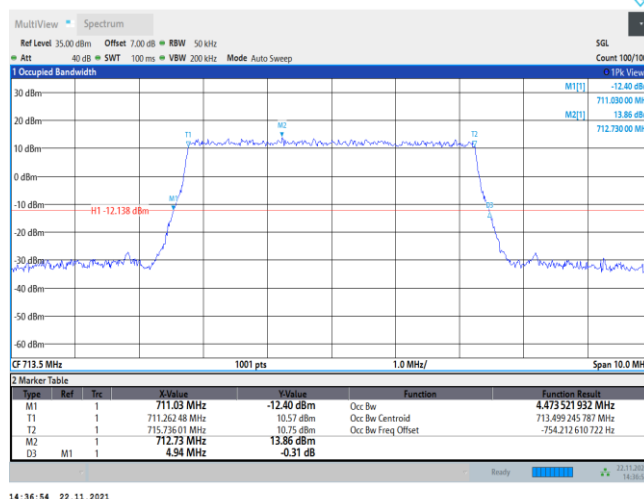
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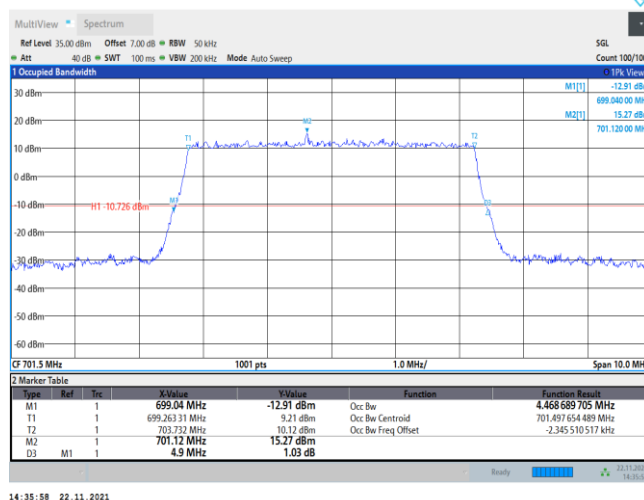
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Band12-5MHz-QPSK-23155-25RB#0



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



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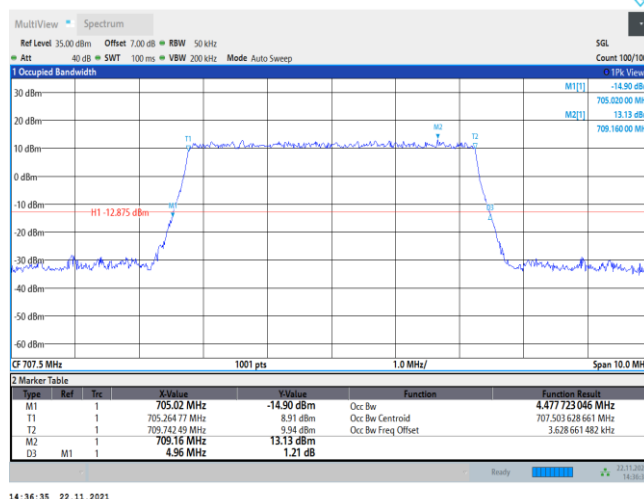
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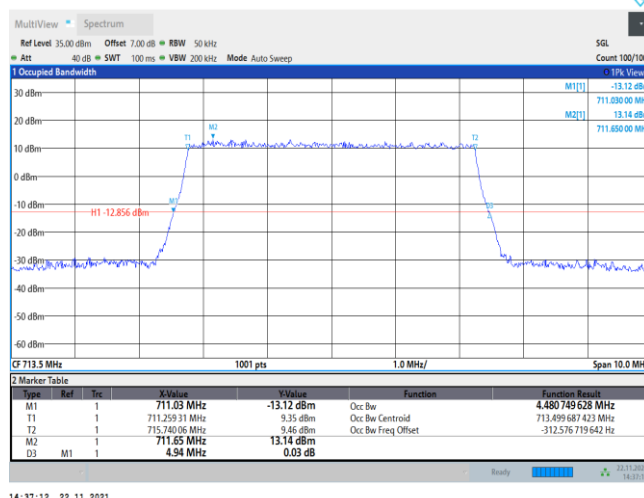
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Band12-5MHz-16QAM-23095-25RB#0



Band12-5MHz-16QAM-23155-25RB#0



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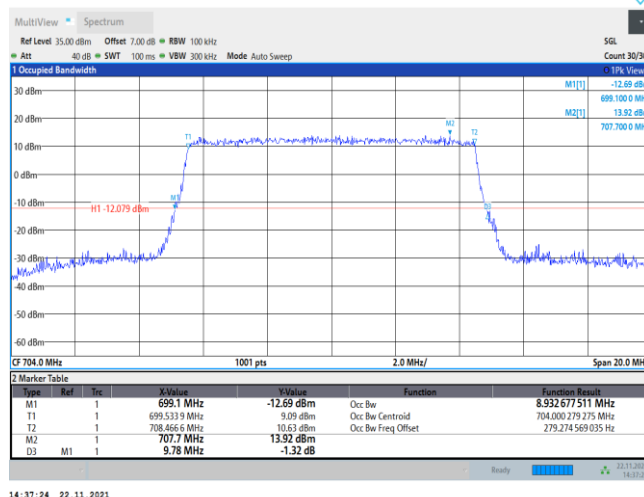
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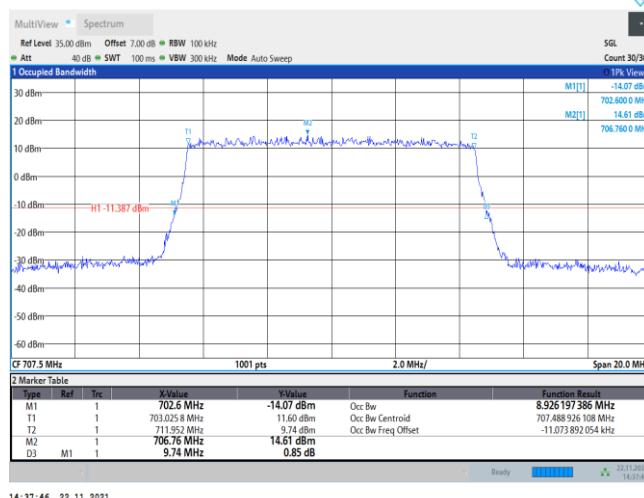
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Band12-10MHz-QPSK-23060-50RB#0



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



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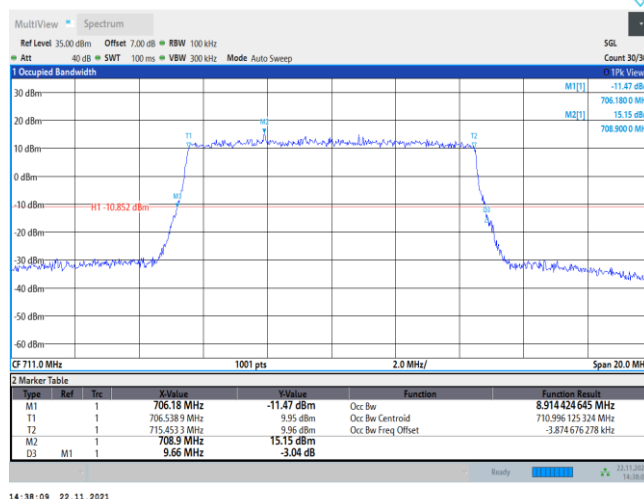
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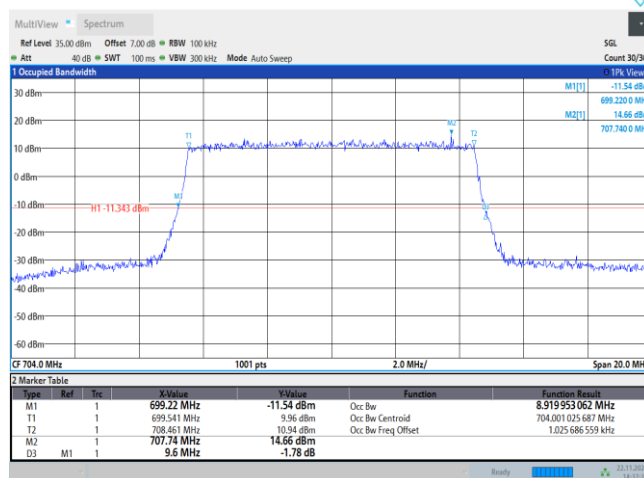
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Band12-10MHz-QPSK-23130-50RB#0



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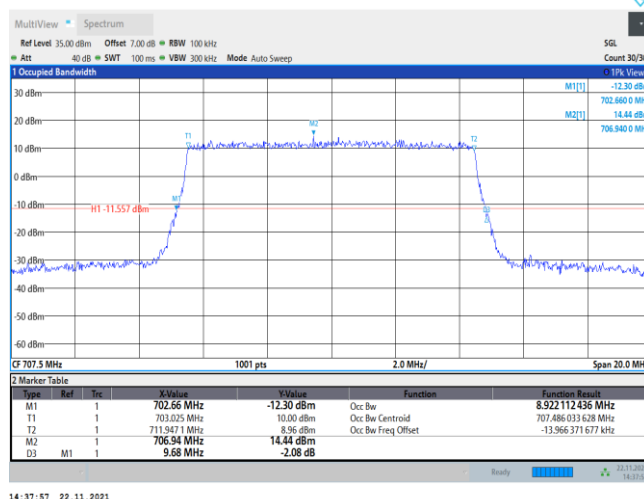
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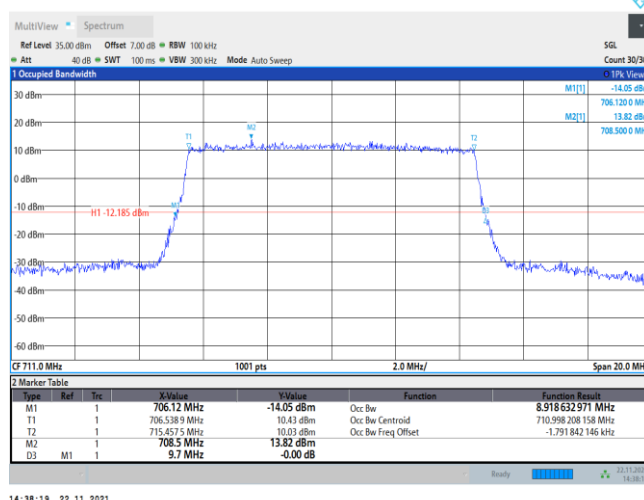
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Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-35.14,-21.84	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-32.32,-26.35	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.70,-31.46	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-26.23,-31.49	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-35.66,-22.52	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-35.59,-28.48	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.07,-31.28	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-28.21,-33.84	PASS
Band12	3MHz	QPSK	23025	1RB#0	-34.08,-21.61	PASS
Band12	3MHz	QPSK	23025	15RB#0	-36.39,-27.62	PASS
Band12	3MHz	QPSK	23165	1RB#14	-22.08,-34.74	PASS
Band12	3MHz	QPSK	23165	15RB#0	-28.13,-36.35	PASS
Band12	3MHz	16QAM	23025	1RB#0	-34.22,-21.45	PASS
Band12	3MHz	16QAM	23025	15RB#0	-38.82,-29.69	PASS
Band12	3MHz	16QAM	23165	1RB#14	-22.81,-35.51	PASS
Band12	3MHz	16QAM	23165	15RB#0	-29.34,-37.31	PASS
Band12	5MHz	QPSK	23035	1RB#0	-33.33,-22.44	PASS
Band12	5MHz	QPSK	23035	25RB#0	-33.41,-28.32	PASS
Band12	5MHz	QPSK	23155	1RB#24	-22.96,-35.53	PASS
Band12	5MHz	QPSK	23155	25RB#0	-29.62,-34.92	PASS
Band12	5MHz	16QAM	23035	1RB#0	-34.92,-22.68	PASS
Band12	5MHz	16QAM	23035	25RB#0	-35.63,-29.87	PASS
Band12	5MHz	16QAM	23155	1RB#24	-23.77,-36.19	PASS
Band12	5MHz	16QAM	23155	25RB#0	-29.86,-36.02	PASS
Band12	10MHz	QPSK	23060	1RB#0	-32.57	PASS
Band12	10MHz	QPSK	23060	50RB#0	-30.85	PASS
Band12	10MHz	QPSK	23130	1RB#49	-33.29	PASS
Band12	10MHz	QPSK	23130	50RB#0	-32.22	PASS
Band12	10MHz	16QAM	23060	1RB#0	-32.32	PASS
Band12	10MHz	16QAM	23060	50RB#0	-33.18	PASS
Band12	10MHz	16QAM	23130	1RB#49	-32.71	PASS
Band12	10MHz	16QAM	23130	50RB#0	-34.01	PASS



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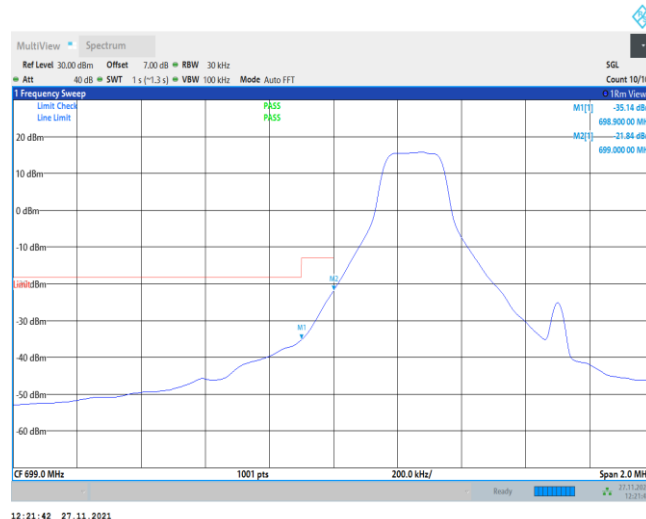
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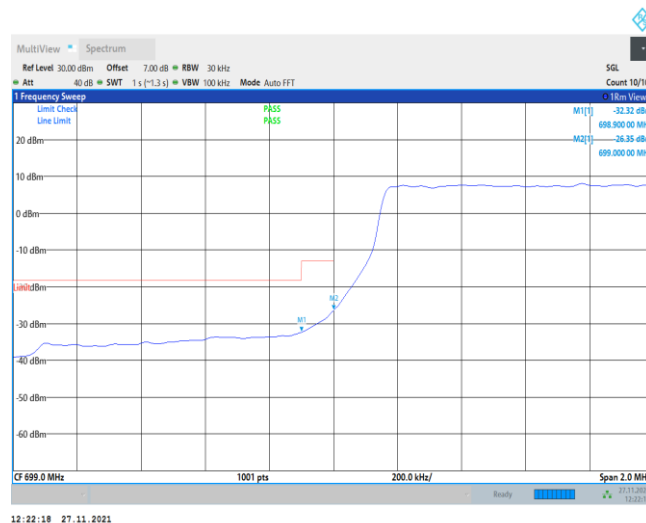
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Test Graphs

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



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



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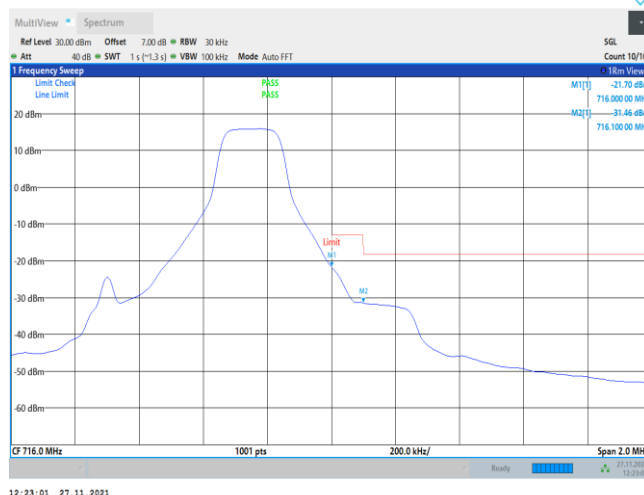
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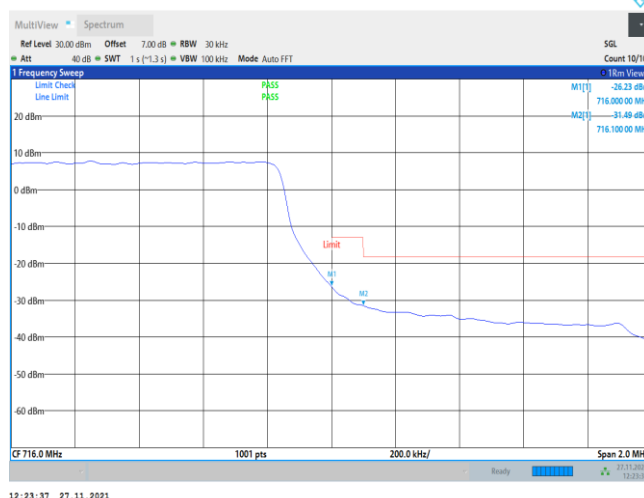
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Band12-1.4MHz-QPSK-23173-1RB#5



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



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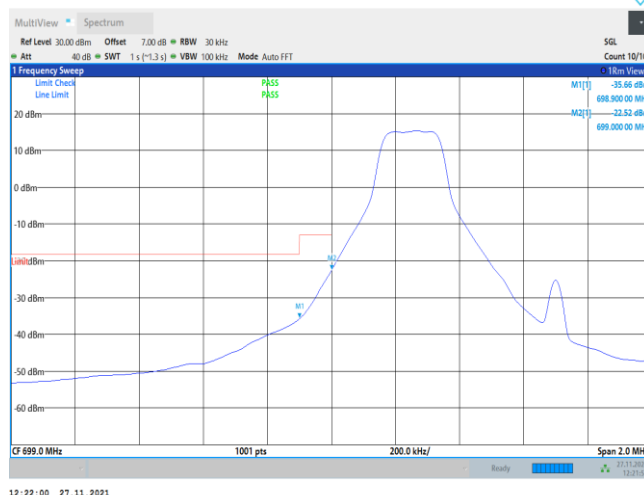
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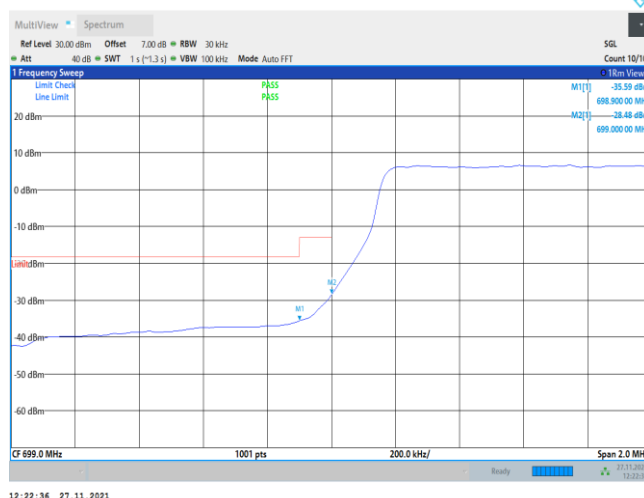
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Band12-1.4MHz-16QAM-23017-1RB#0



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



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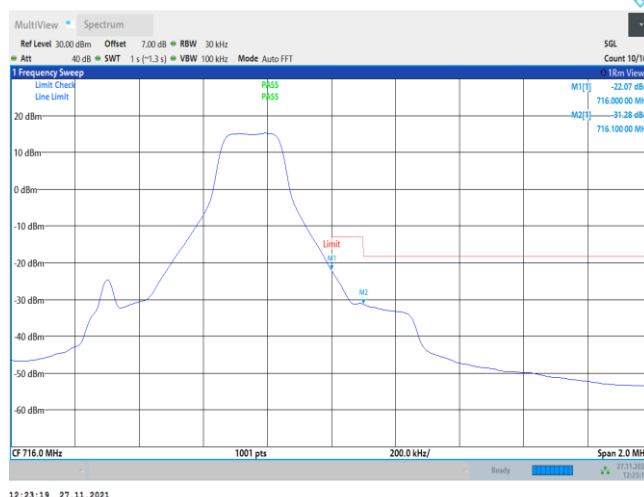
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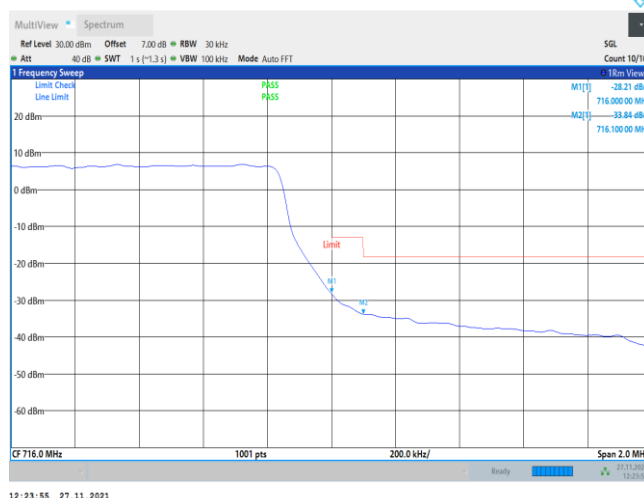
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Band12-1.4MHz-16QAM-23173-1RB#5



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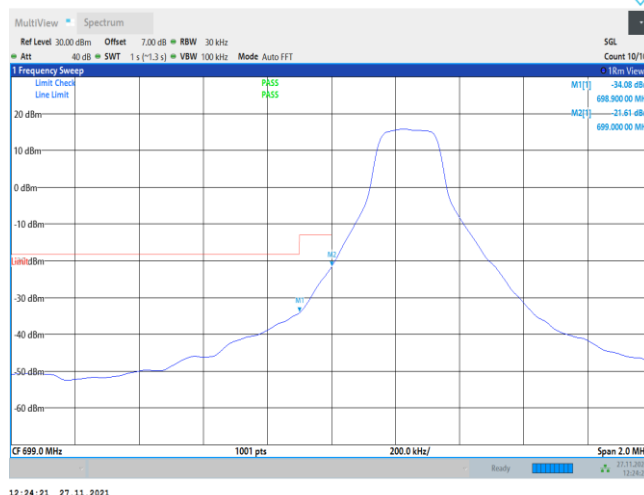
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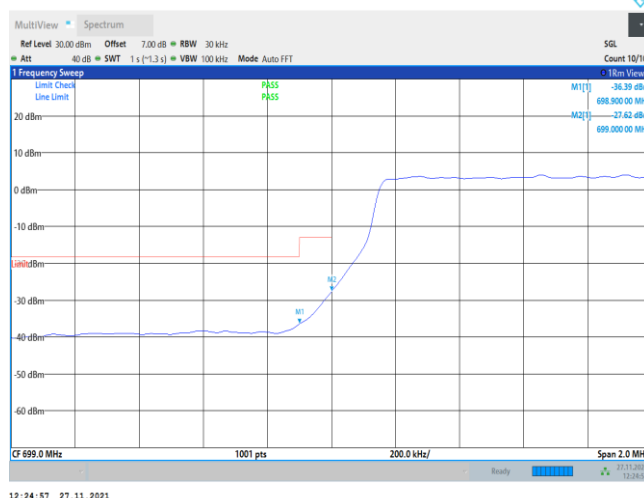
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Band12-3MHz-QPSK-23025-1RB#0



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



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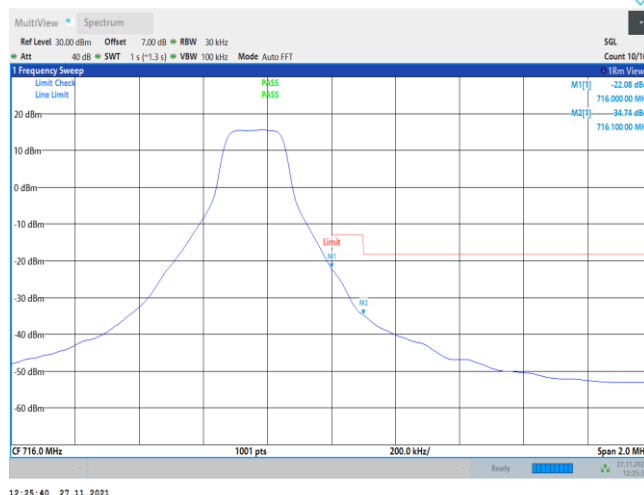
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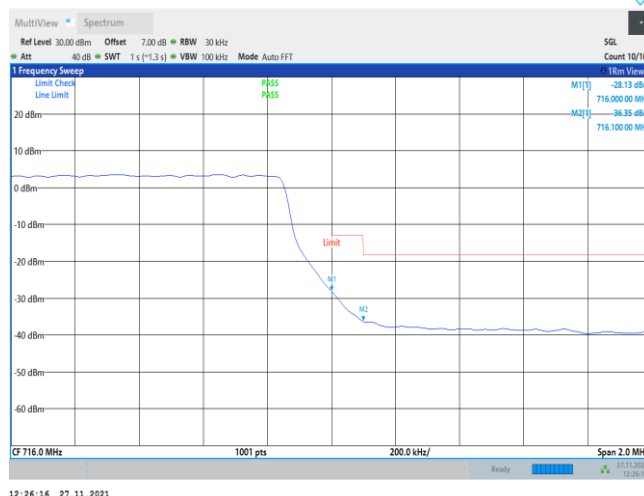
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Band12-3MHz-QPSK-23165-1RB#14



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



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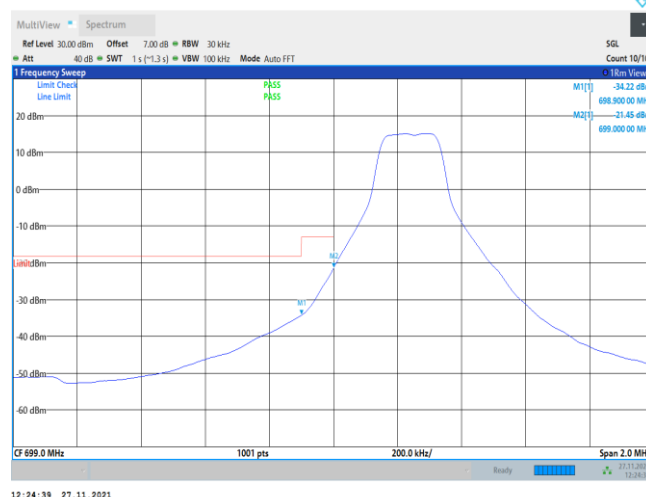
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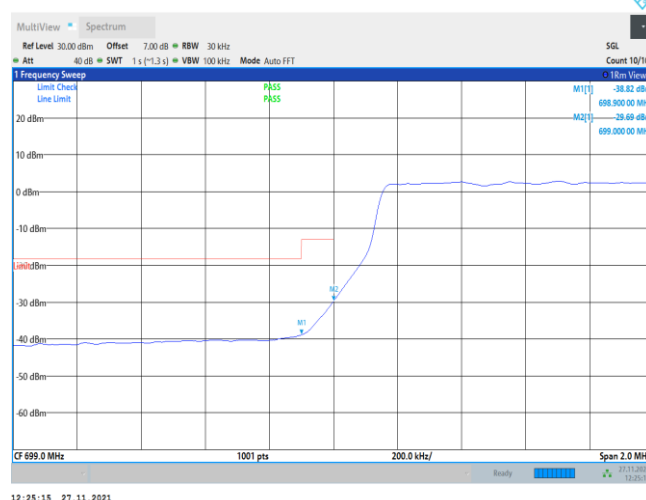
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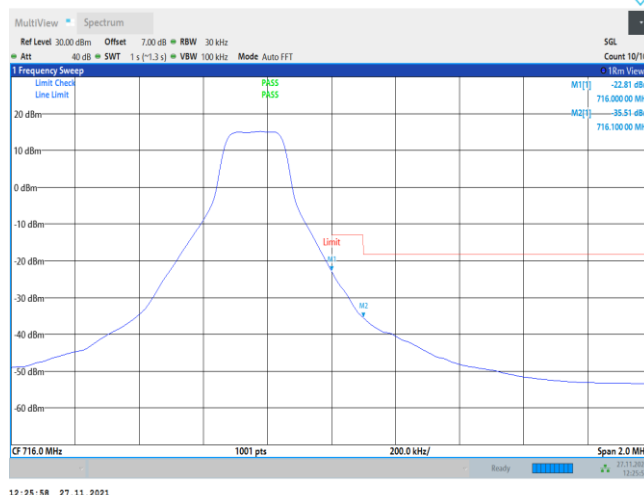
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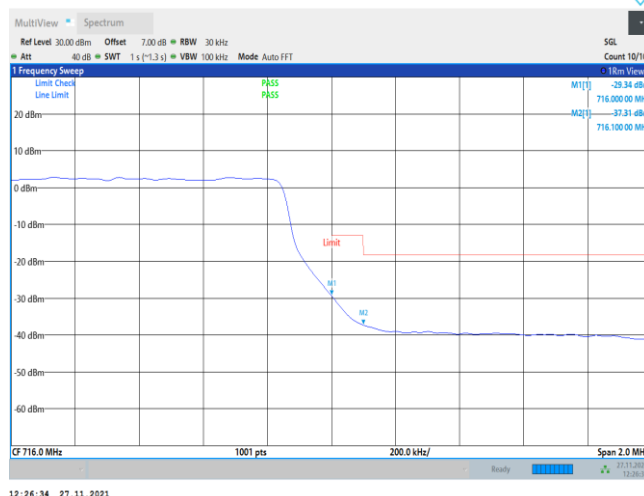
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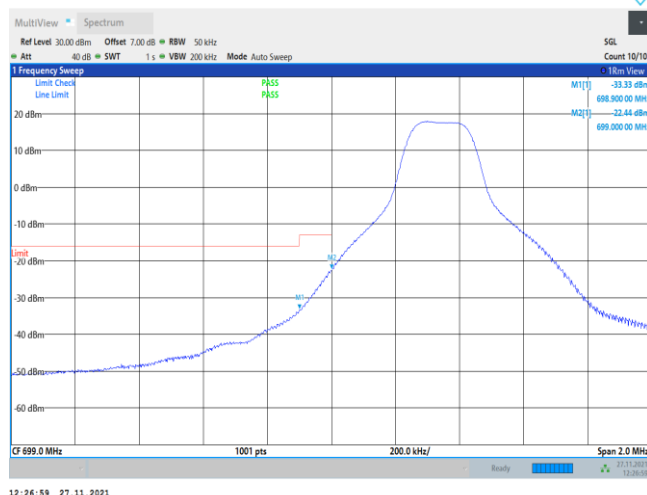
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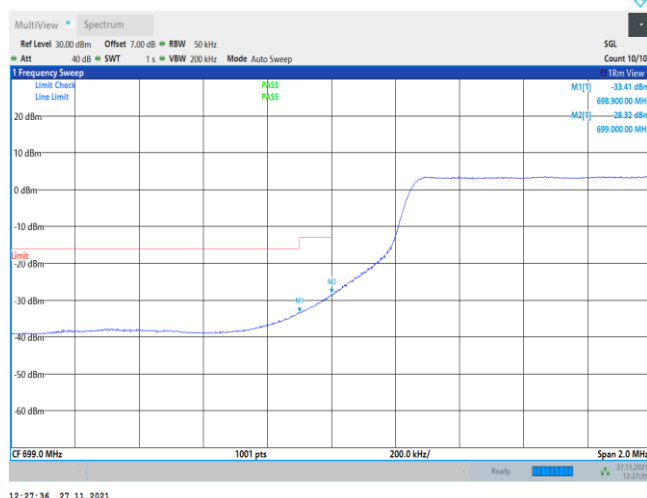
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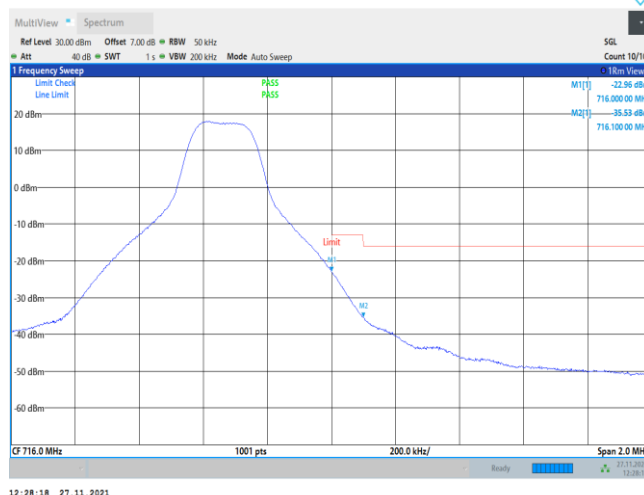
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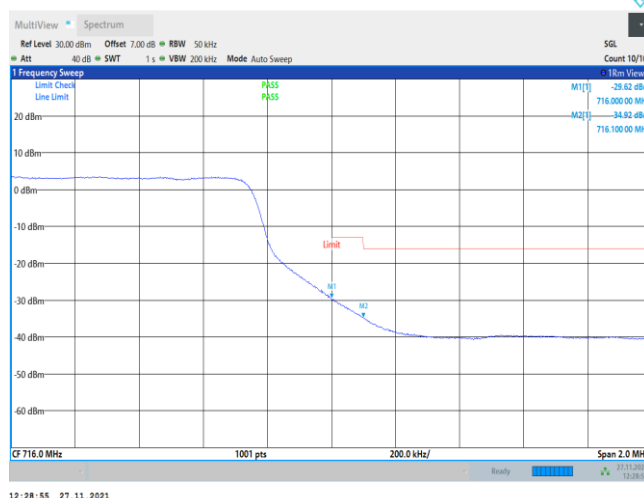
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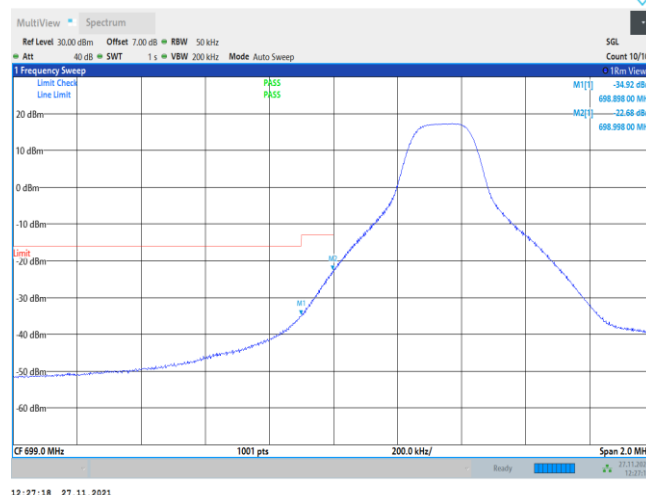
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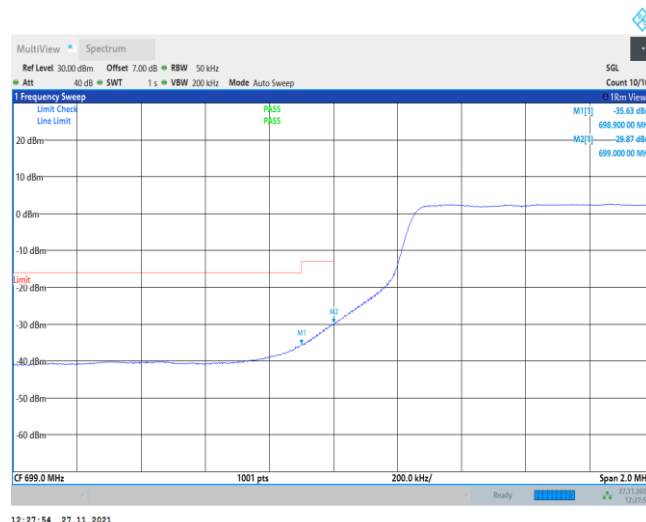
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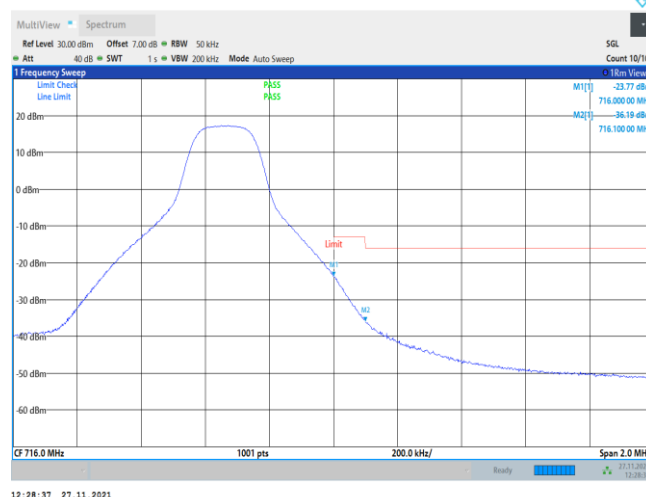
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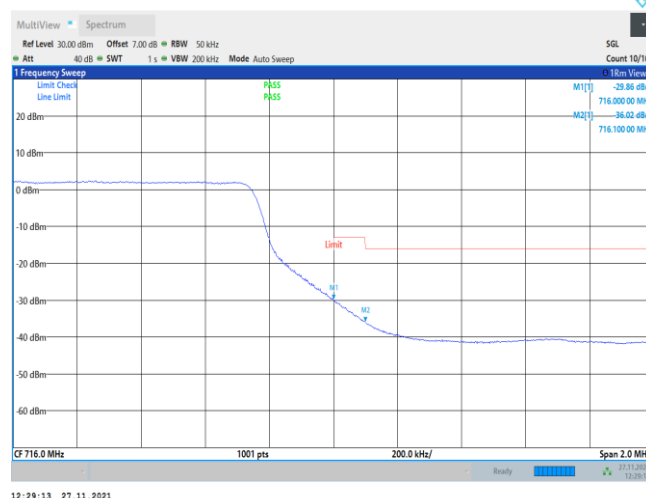
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Band12-5MHz-16QAM-23155-1RB#24



Band12-5MHz-16QAM-23155-25RB#0



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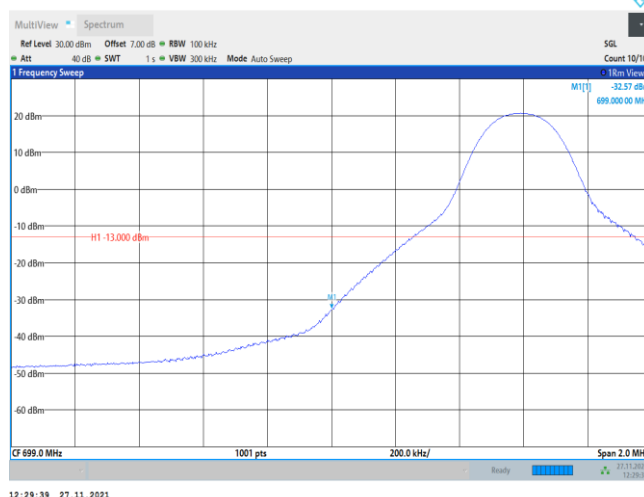
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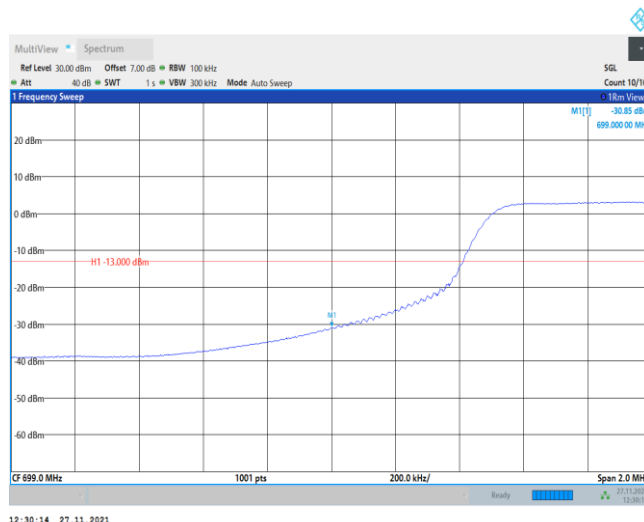
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Band12-10MHz-QPSK-23060-1RB#0



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



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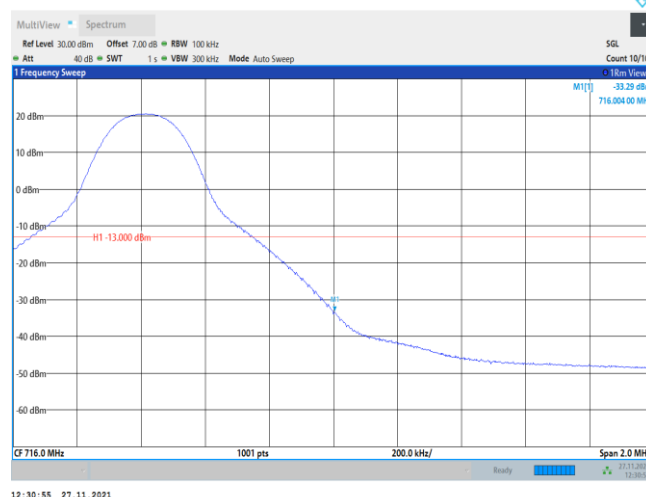
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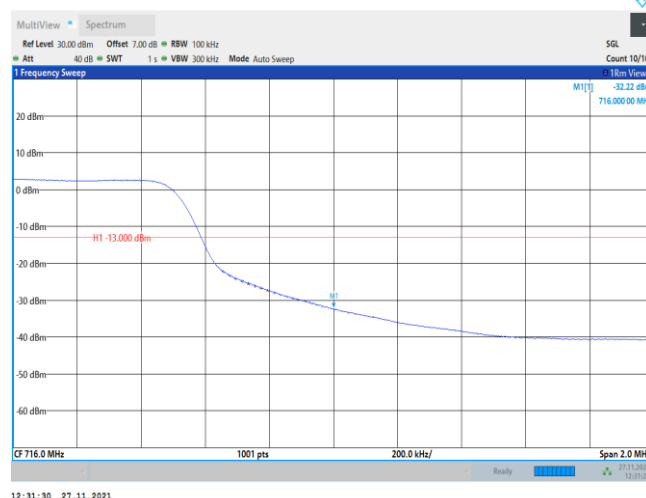
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Band12-10MHz-QPSK-23130-1RB#49



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



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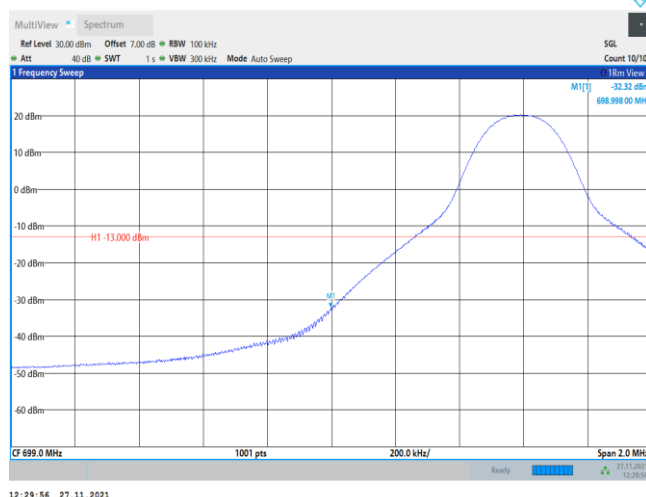
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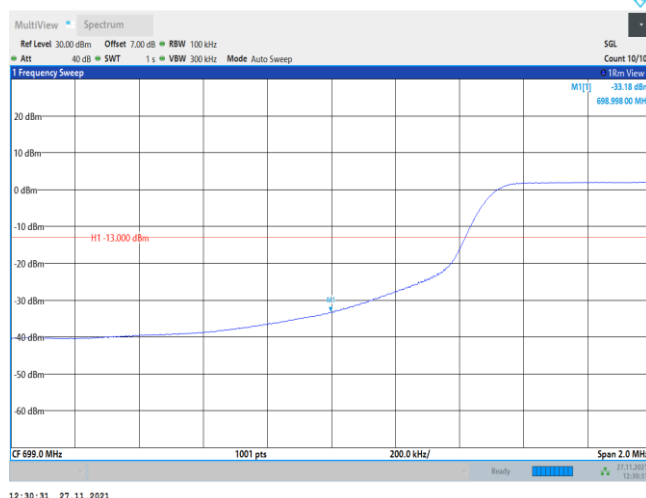
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Band12-10MHz-16QAM-23060-1RB#0



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



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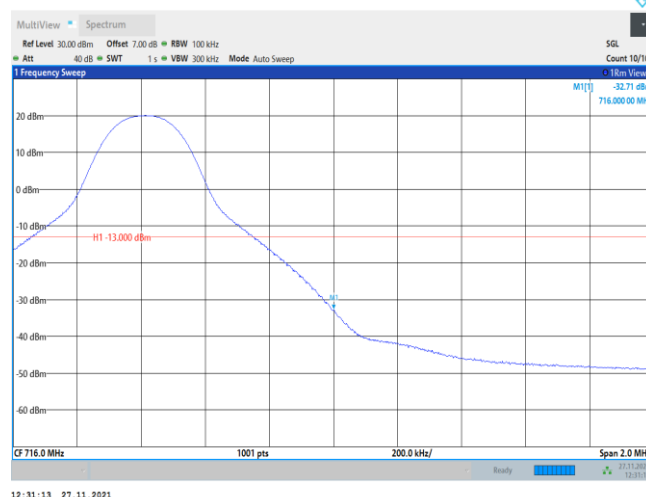
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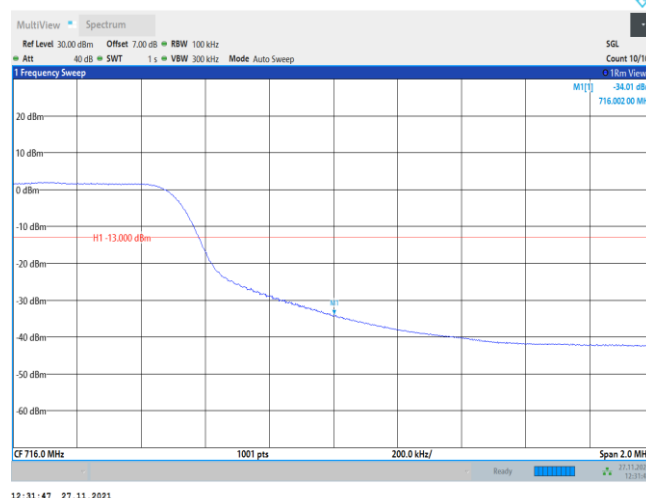
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Band12-10MHz-16QAM-23130-1RB#49



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



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Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-37.27	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-26.63	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-37.2	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-20.97	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-36.85	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-18.36	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-37.95	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-18.01	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-37.99	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-24.26	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-35.88	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-28.77	PASS



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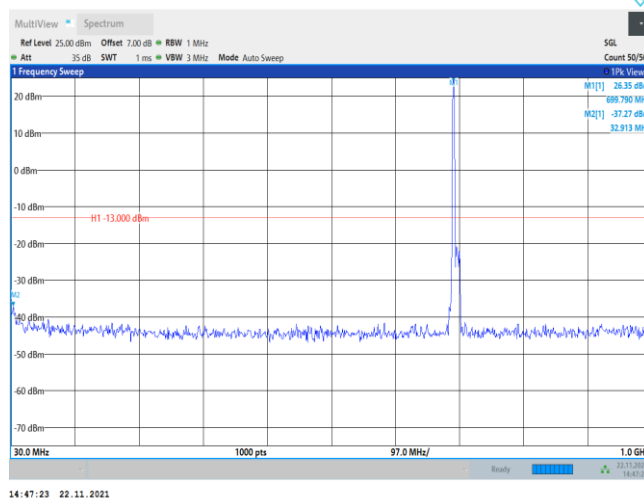
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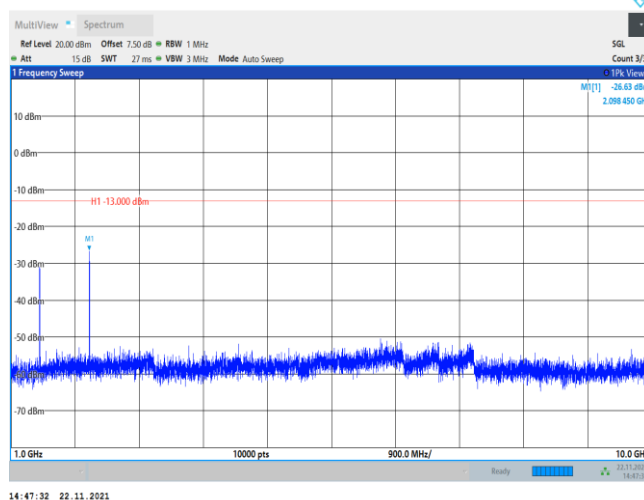
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Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



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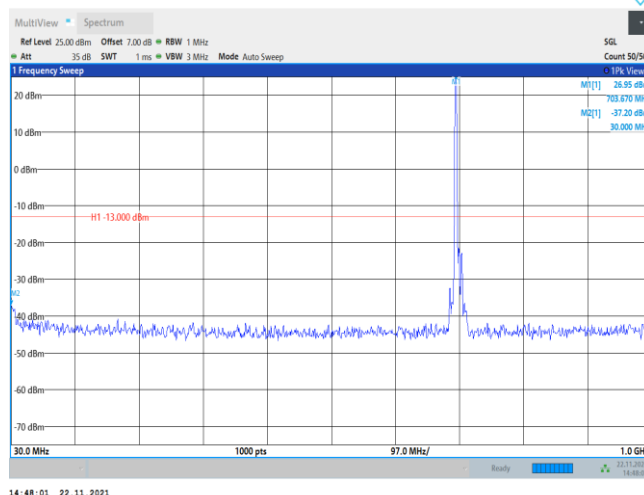
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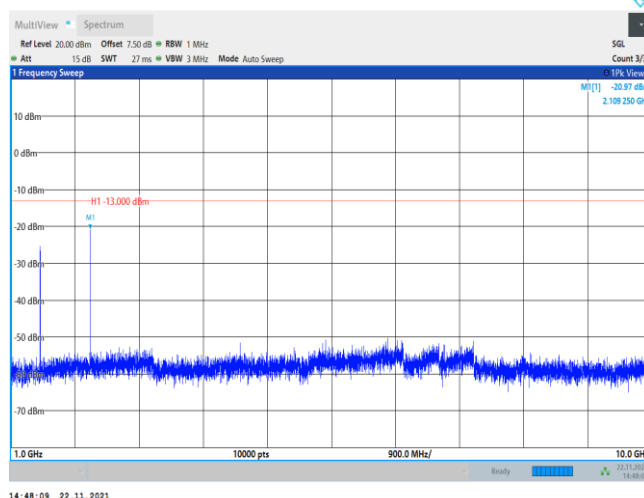
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Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



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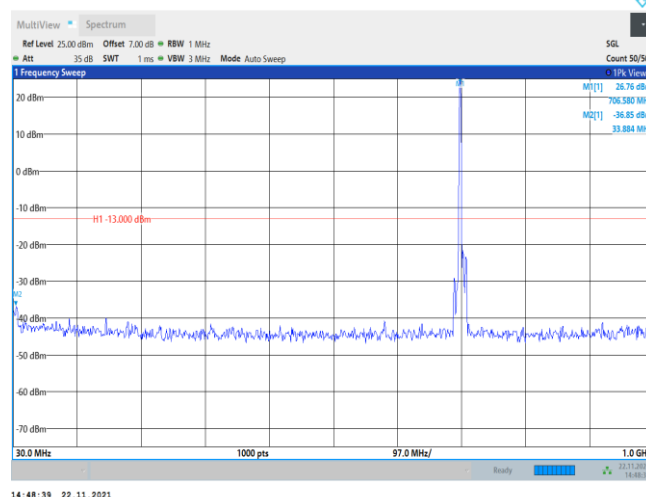
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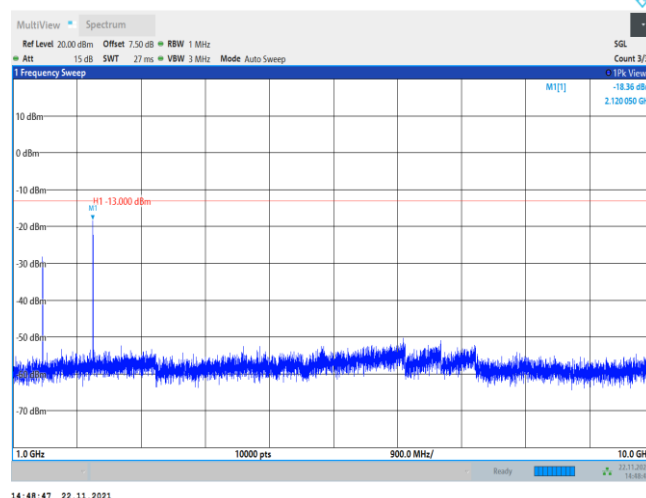
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Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



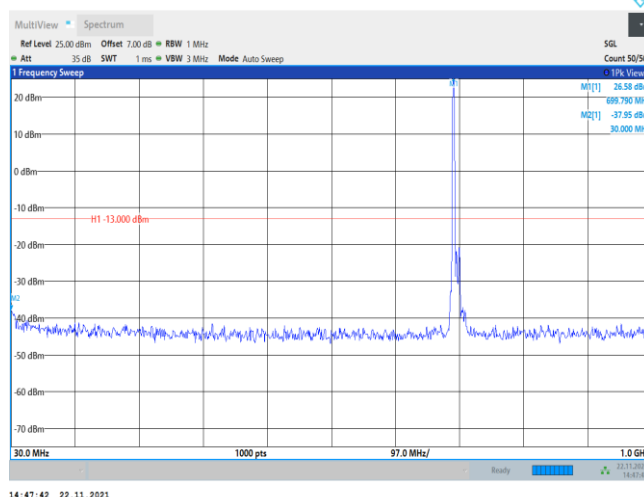
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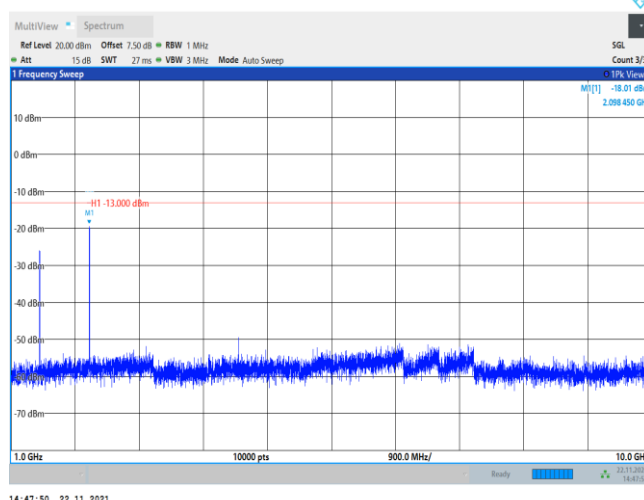
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Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



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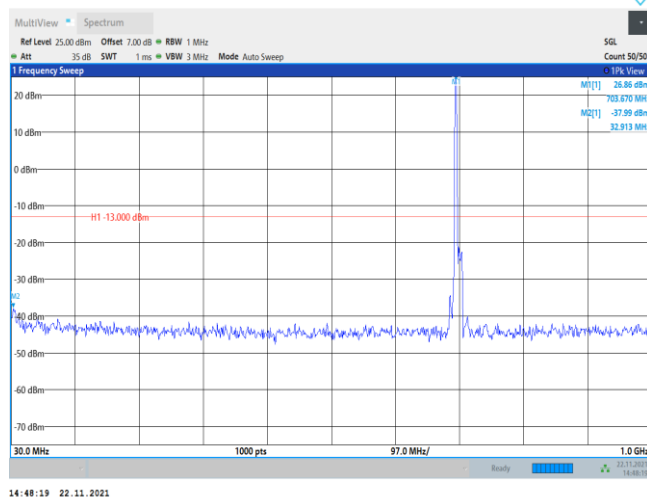
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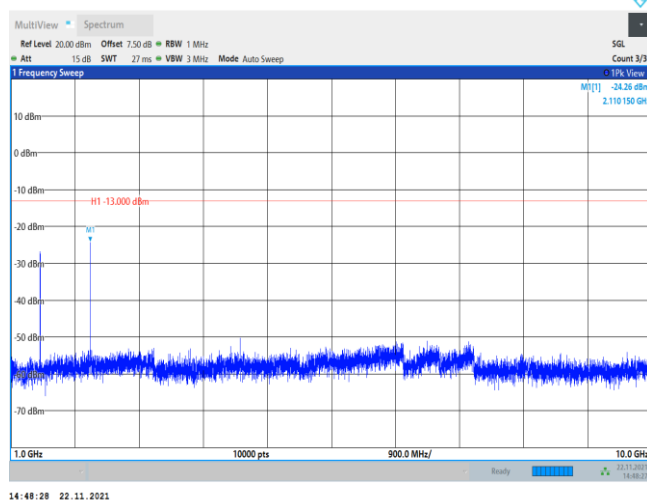
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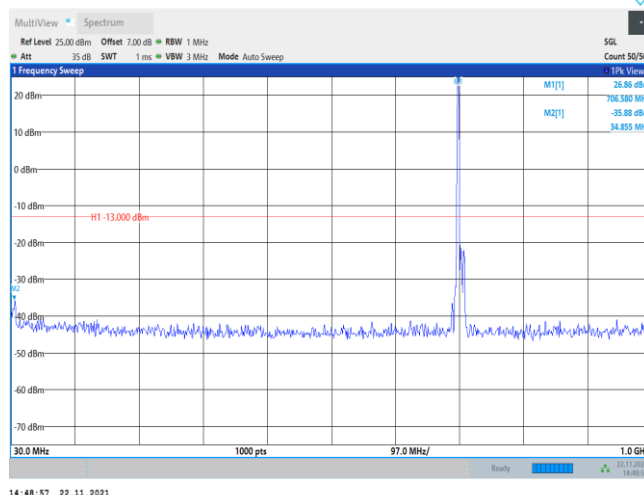
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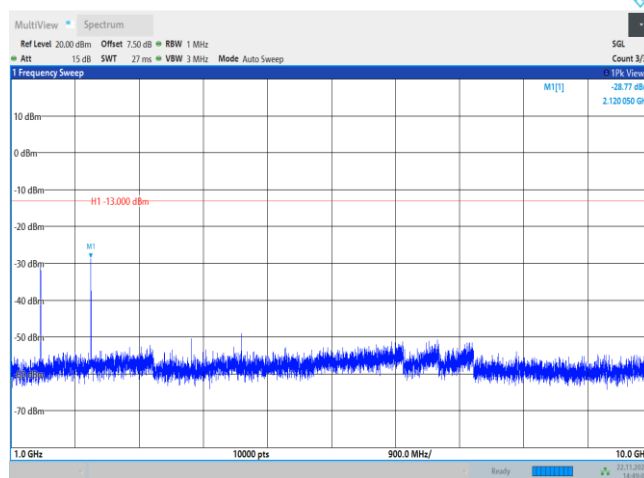
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Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



14:49:05 22.11.2021



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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6号厂房南面 邮编: 215000

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

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Field Strength of Spurious Radiation

Test Band =LTE_Band_12 TM1
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	55.76	-62.83	-13.00	49.83	230	360	Horizontal
2	2098.7700	62.78	-53.26	-13.00	40.26	263	154	Horizontal
3	2798.3600	57.31	-55.72	-13.00	42.72	254	166	Horizontal
4	3497.9500	59.36	-52.55	-13.00	39.55	158	323	Horizontal
5	4197.5400	67.90	-41.56	-13.00	28.56	366	341	Horizontal
6	4897.1300	62.10	-45.94	-13.00	32.94	189	226	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	58.00	-60.59	-13.00	47.59	156	129	Vertical
2	2098.6667	65.84	-50.21	-13.00	37.21	123	237	Vertical
3	2798.2222	61.50	-51.53	-13.00	38.53	356	170	Vertical
4	3498.2222	59.38	-52.53	-13.00	39.53	244	134	Vertical
5	4197.3333	69.11	-40.35	-13.00	27.35	299	68	Vertical
6	4897.1300	63.95	-44.09	-13.00	31.09	338	126	Vertical



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Test Band =LTE_Band_12 TM1
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	60.05	-58.52	-13.00	45.52	152	34	Horizontal
2	2109.2700	65.35	-50.66	-13.00	37.66	233	180	Horizontal
3	2812.3600	58.09	-54.90	-13.00	41.90	296	161	Horizontal
4	3515.4500	56.20	-55.66	-13.00	42.66	287	319	Horizontal
5	4218.5400	68.59	-40.83	-13.00	27.83	249	342	Horizontal
6	4921.6300	58.81	-49.16	-13.00	36.16	335	161	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	59.54	-59.03	-13.00	46.03	365	143	Vertical
2	2109.2700	69.10	-46.91	-13.00	33.91	255	222	Vertical
3	2812.3600	58.98	-54.01	-13.00	41.01	120	167	Vertical
4	3515.4500	58.63	-53.23	-13.00	40.23	302	210	Vertical
5	4218.5400	68.57	-40.85	-13.00	27.85	209	229	Vertical
6	4921.6300	61.80	-46.17	-13.00	33.17	110	10	Vertical



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Test Band =LTE_Band_12 TM1
Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	60.55	-57.99	-13.00	44.99	156	360	Horizontal
2	2119.7700	61.33	-54.64	-13.00	41.64	233	253	Horizontal
3	2826.2222	56.16	-56.80	-13.00	43.80	254	168	Horizontal
4	3532.8889	55.42	-56.37	-13.00	43.37	268	355	Horizontal
5	4239.5400	61.26	-48.13	-13.00	35.13	381	174	Horizontal
6	4946.1300	56.00	-51.87	-13.00	38.87	222	222	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	63.84	-54.70	-13.00	41.70	115	161	Vertical
2	2119.7700	64.47	-51.50	-13.00	38.50	221	155	Vertical
3	2826.3600	53.72	-59.24	-13.00	46.24	230	266	Vertical
4	3532.9500	54.00	-57.79	-13.00	44.79	354	132	Vertical
5	4239.5400	63.13	-46.26	-13.00	33.26	189	320	Vertical
6	4946.1300	58.82	-49.05	-13.00	36.05	226	196	Vertical



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-1.44	-0.002045	Within authorized bands of operation/frequency block.	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-3.42	-0.004858		PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-2.75	-0.003906		PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-2.63	-0.003717		PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-2.06	-0.002912		PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.14	-0.001611		PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-3.15	-0.004430		PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-2.65	-0.003727		PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.09	-0.002940		PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	1.24	0.001761		PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-3.70	-0.005256		PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-1.95	-0.002770		PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-1.41	-0.001993		PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-4.11	-0.005809		PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-2.30	-0.003251		PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-3.41	-0.004796		PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-2.45	-0.003446		PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-1.47	-0.002068		PASS



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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-1.50	-0.002131	Within authorized bands of operation/frequency block.	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	1.67	0.002372		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-1.41	-0.002003		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	1.66	0.002358		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-1.44	-0.002045		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	1.53	0.002173		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-1.00	-0.001420		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.03	-0.004283		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.90	-0.004099		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.77	-0.002502		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.70	-0.002403		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.02	-0.001442		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.23	-0.003152		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-3.27	-0.004622		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.10	-0.002954		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-3.01	-0.004233		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-4.02	-0.005654		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-1.65	-0.002321		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-3.22	-0.004529		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.00	-0.004219		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-3.34	-0.004698		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-2.77	-0.003935		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-1.92	-0.002727		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	3.09	0.004389		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	2.07	0.002940		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-1.42	-0.002017		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-2.28	-0.003239		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-2.37	-0.003366		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	1.94	0.002742		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-1.83	-0.002587		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.54	-0.002177		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.52	-0.003562		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-2.04	-0.002883		PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-1.79	-0.002530		PASS



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Band12	10MHz	16QAM	23095	50RB#0	NV	50	-1.73	-0.002445	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-2.90	-0.004079	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-1.16	-0.001632	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-3.13	-0.004402	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-2.66	-0.003741	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-2.42	-0.003404	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-2.53	-0.003558	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.42	-0.001997	PASS

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