



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.6

LTE Band 12



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Wired and Wireless Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgsgroup.com.cn
t (86-755) 26012053 sgs.china@sgs.com



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.58	17.33	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.68	17.43	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.59	17.34	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.65	16.40	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.59	17.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.39	17.14	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.21	16.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.41	16.16	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.18	16.93	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.21	16.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.08	16.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.17	15.92	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.81	16.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.94	16.69	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.91	16.66	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.80	15.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.80	16.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.78	16.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.65	16.40	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.54	15.29	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.40	16.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.48	16.23	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.39	16.14	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.29	15.04	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	20.76	15.51	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.98	15.73	34.77	PASS



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgsgroup.com.cn
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Band12	1.4MHz	64QAM	23017	1RB#5	20.84	15.59	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	19.74	14.49	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.89	15.64	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.92	15.67	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.86	15.61	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.75	14.50	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.84	15.59	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.95	15.70	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.85	15.60	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.73	14.48	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.60	17.35	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.64	17.39	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.64	17.39	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.61	16.36	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.11	16.86	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.14	16.89	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.17	16.92	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.15	15.90	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.12	16.87	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.11	16.86	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.08	16.83	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.14	15.89	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.83	16.58	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.89	16.64	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.88	16.63	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.64	15.39	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.39	16.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.43	16.18	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.45	16.20	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.25	15.00	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.46	16.21	34.77	PASS



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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Band12	3MHz	16QAM	23165	1RB#8	21.45	16.20	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.32	16.07	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.18	14.93	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.88	15.63	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.83	15.58	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.93	15.68	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.68	14.43	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.91	15.66	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.87	15.62	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.83	15.58	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.74	14.49	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.80	15.55	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.88	15.63	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.85	15.60	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.70	14.45	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.52	17.27	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.74	17.49	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.52	17.27	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.33	16.08	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.12	16.87	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.31	17.06	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.06	16.81	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.26	16.01	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.20	16.95	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.47	17.22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.03	16.78	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.15	15.90	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.81	16.56	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.16	16.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.47	16.22	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.60	15.35	34.77	PASS



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Band12	5MHz	16QAM	23095	1RB#0	21.51	16.26	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.69	16.44	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.37	16.12	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.29	15.04	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.52	16.27	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.68	16.43	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.40	16.15	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.18	14.93	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.79	15.54	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.11	15.86	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.76	15.51	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.66	14.41	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.85	15.60	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.04	15.79	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.73	15.48	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.78	14.53	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.81	15.56	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.04	15.79	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.86	15.61	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.70	14.45	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.66	17.41	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.78	17.53	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.19	16.94	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.83	16.58	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.21	16.96	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.29	17.04	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.12	16.87	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.38	16.13	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.17	16.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.21	16.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.13	16.88	34.77	PASS



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgsgroup.com.cn
t (86-755) 26012053 sgs.china@sgs.com



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Band12	10MHz	QPSK	23130	50RB#0	20.99	15.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.83	16.58	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.05	16.80	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.40	16.15	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.70	15.45	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.44	16.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.51	16.26	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.31	16.06	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.38	15.13	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.41	16.16	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.54	16.29	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.37	16.12	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	19.97	14.72	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.86	15.61	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.04	15.79	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.87	15.62	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.93	14.68	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.97	15.72	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.07	15.82	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.85	15.60	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.96	14.71	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.85	15.60	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.00	15.75	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.86	15.61	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.56	14.31	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	5.74	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.74	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.57	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.46	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.43	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.38	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.70	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.67	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.58	13	PASS



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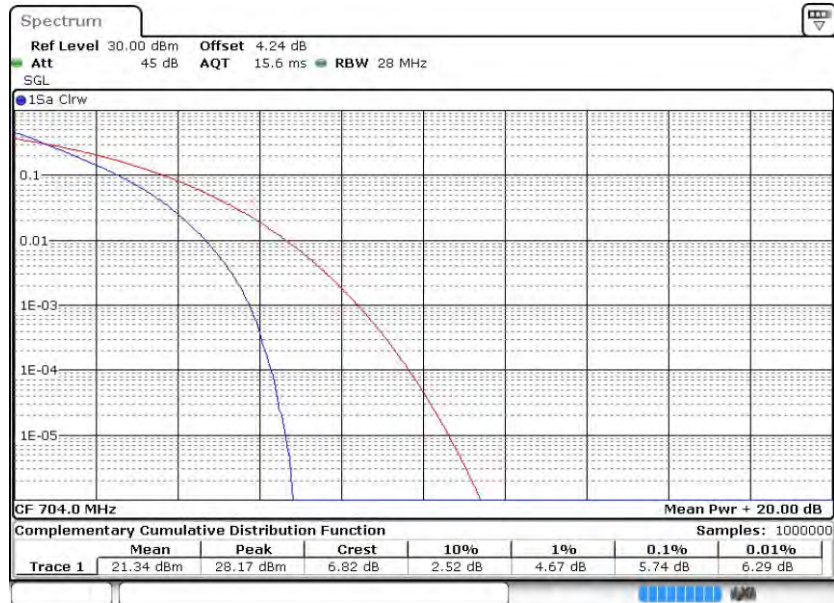


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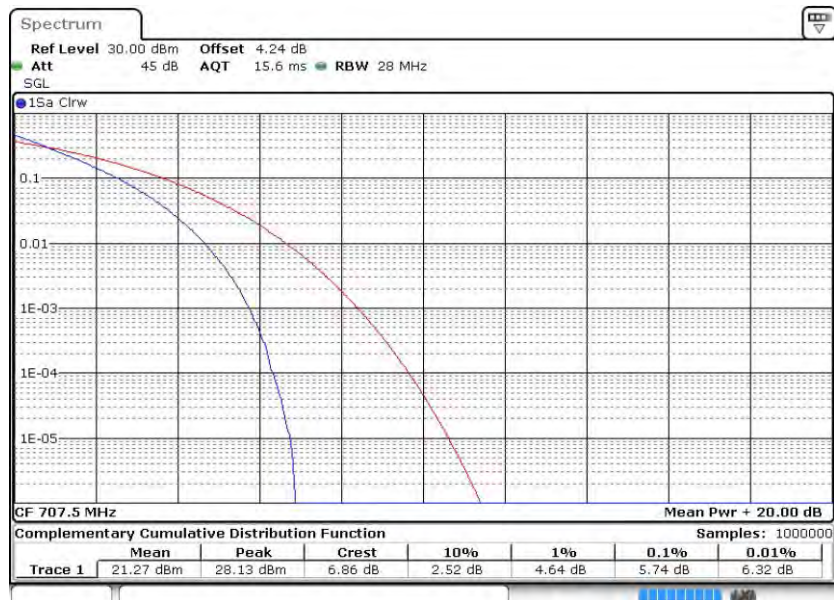
Test Graphs

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



Date: 16, JAN 2024 18:58:53

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



Date: 16, JAN 2024 18:59:27



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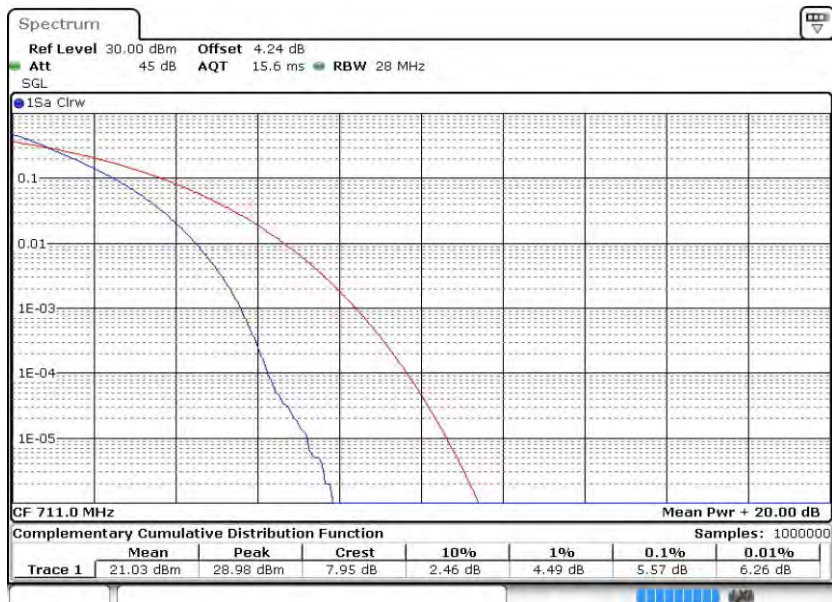
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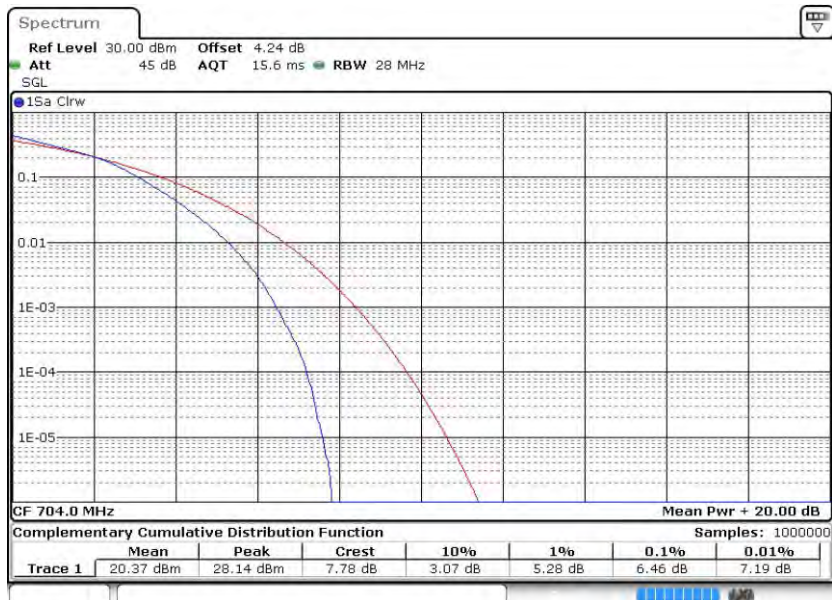
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Band12-10MHz-QPSK-23130-50RB#0



Date: 16 JAN 2024 19:00:01

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



Date: 16 JAN 2024 18:59:10



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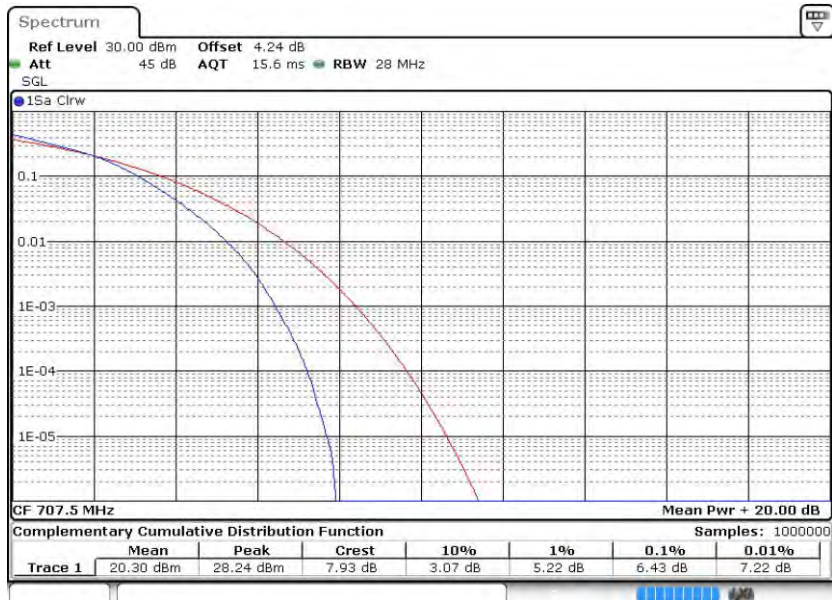
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Band12-10MHz-16QAM-23095-50RB#0



Date: 16 JAN 2024 18:59:44

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



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



Date: 25 JAN 2024 16:03:09

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



Date: 25 JAN 2024 16:03:26

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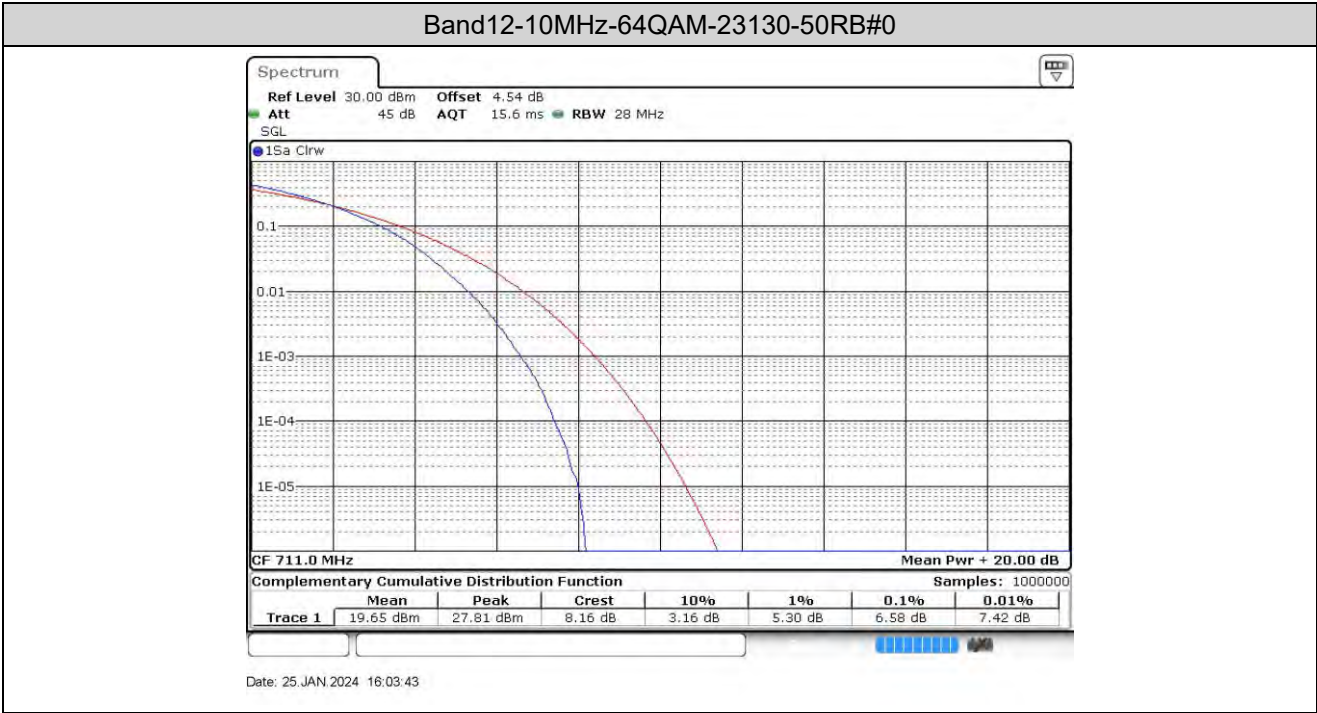
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.082	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.094	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.097	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.685	2.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.691	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.673	2.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.679	2.91	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.679	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.685	2.90	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.685	2.90	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	5.01	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.486	5.03	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.466	5.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	5.08	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.466	5.03	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	5.07	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.486	5.06	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.486	5.05	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.486	5.05	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.971	9.92	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.971	9.84	PASS



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Band12	10MHz	QPSK	23130	50RB#0	8.951	10.16	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.931	9.82	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.951	9.84	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	10.20	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.951	10.10	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.971	9.84	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.911	9.74	PASS



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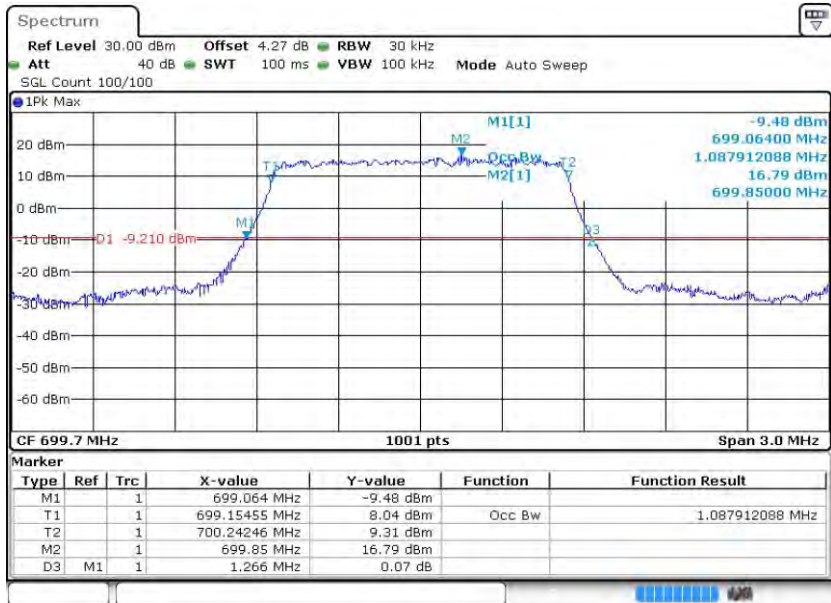


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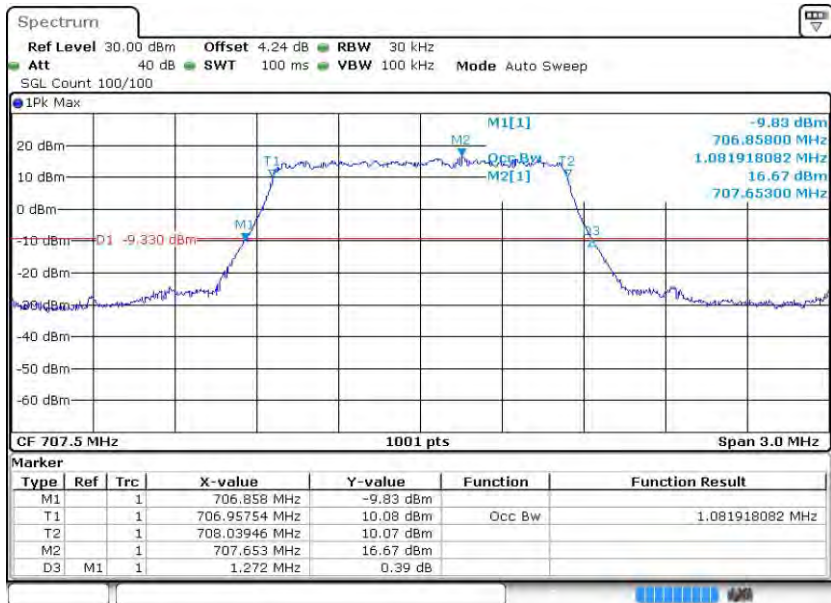
Test Graphs

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



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



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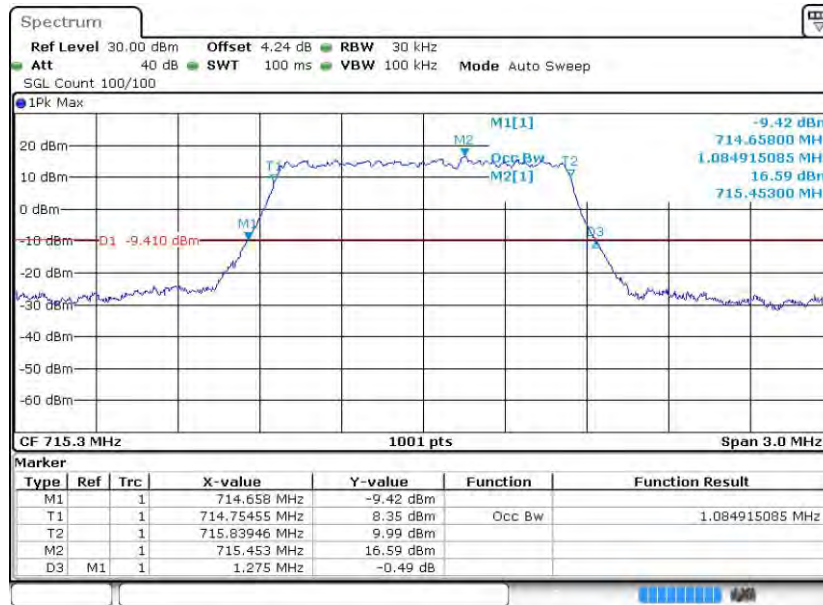
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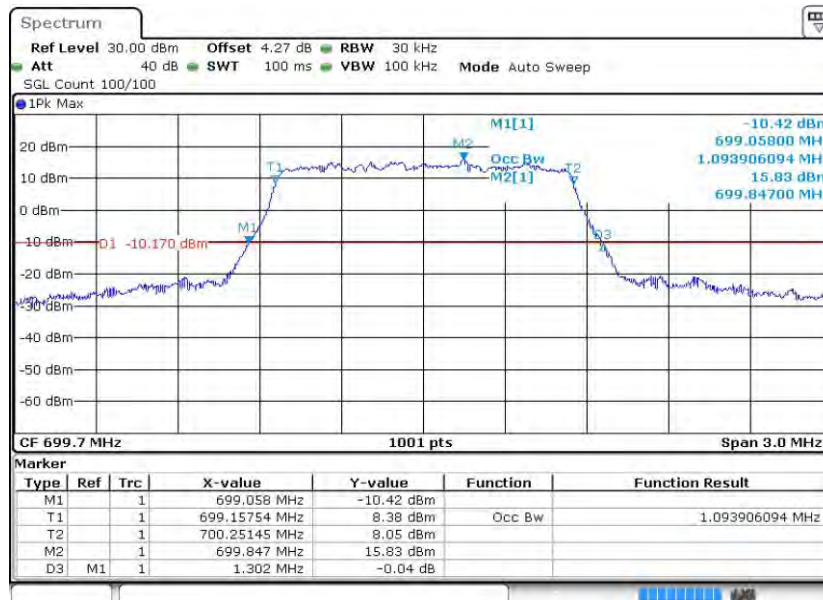
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Band12-1.4MHz-QPSK-23173-6RB#0



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



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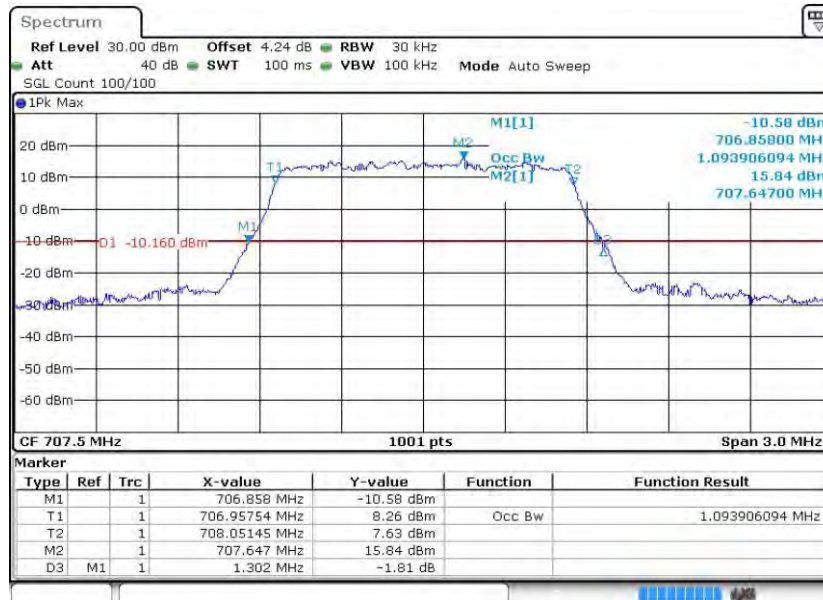
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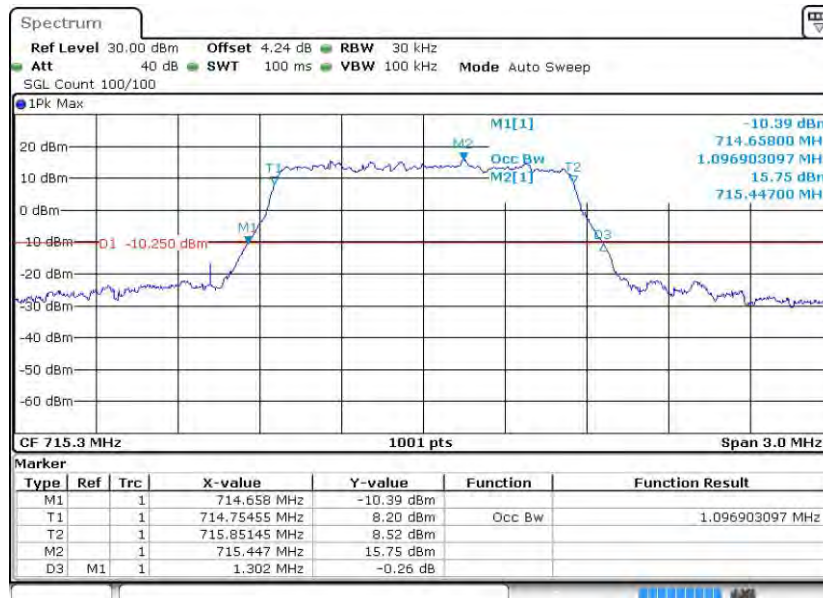
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Band12-1.4MHz-16QAM-23095-6RB#0



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



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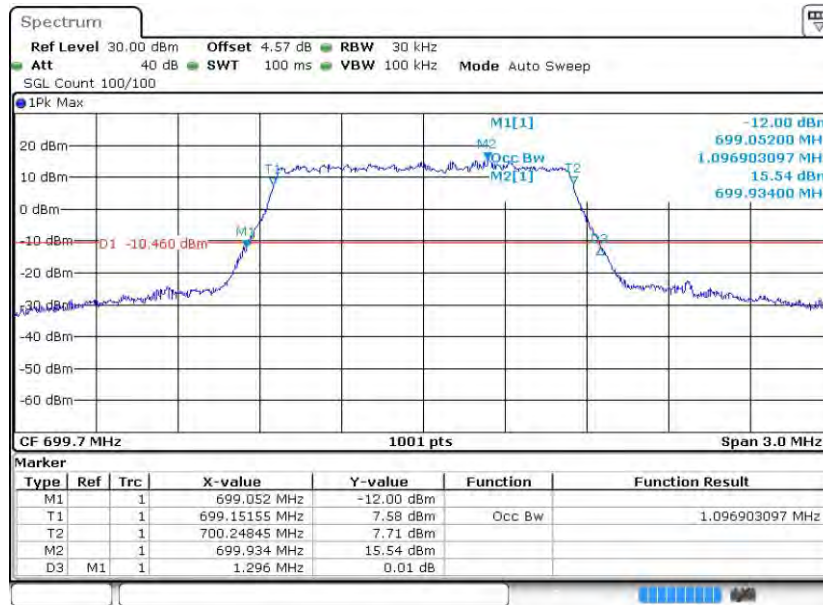
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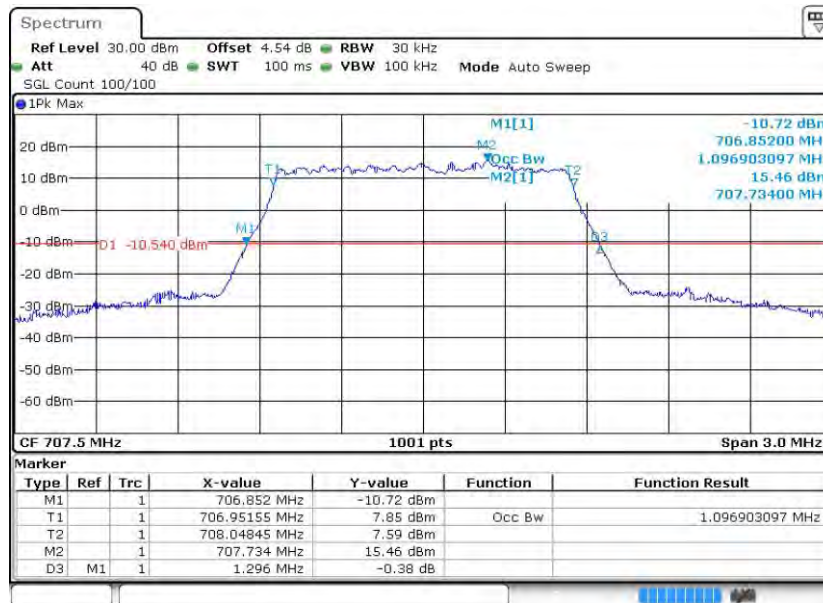
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Band12-1.4MHz-64QAM-23017-6RB#0



Date: 25 JAN 2024 15:56:50

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



Date: 25 JAN 2024 15:57:13



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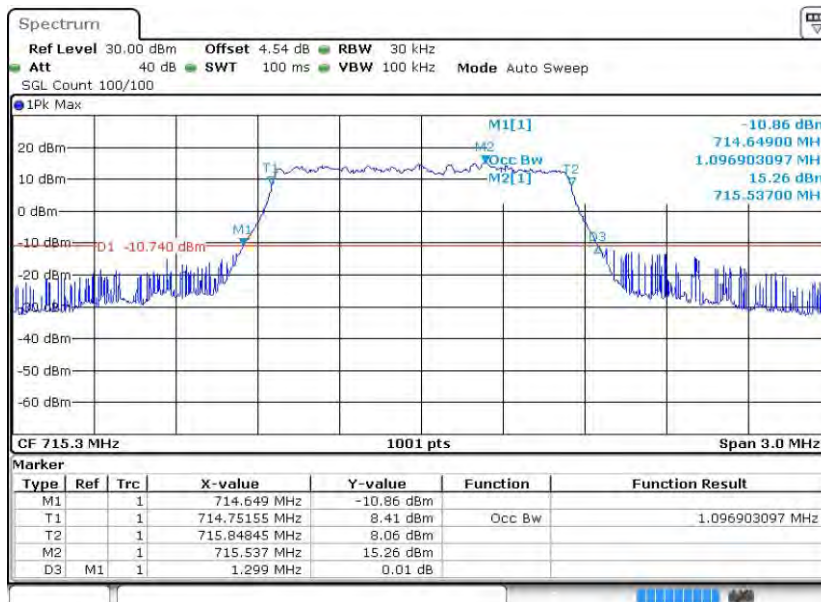
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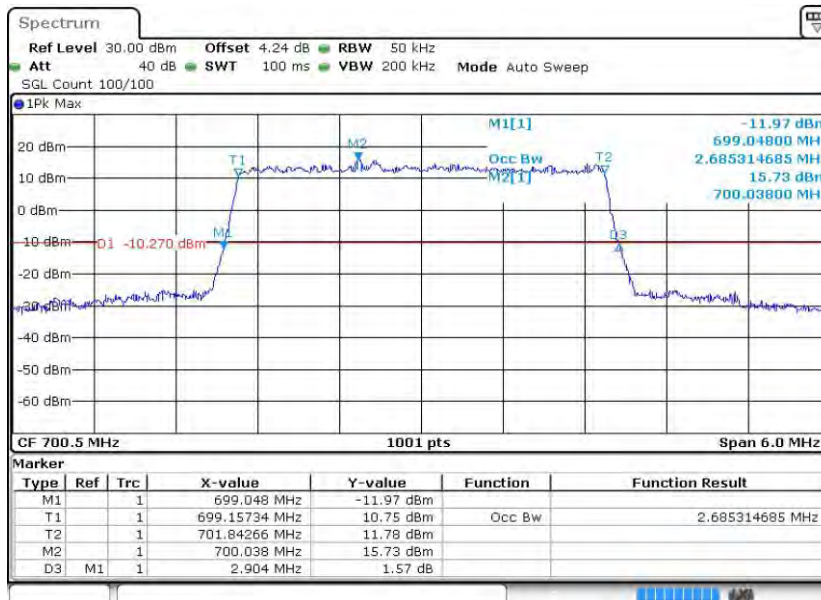
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Band12-3MHz-QPSK-23025-15RB#0



Date: 16 JAN 2024 18:39:16



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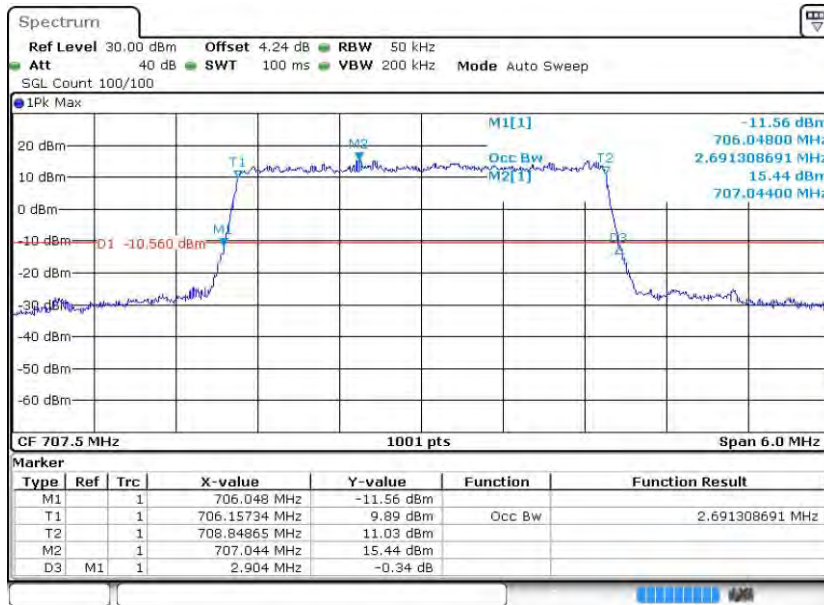
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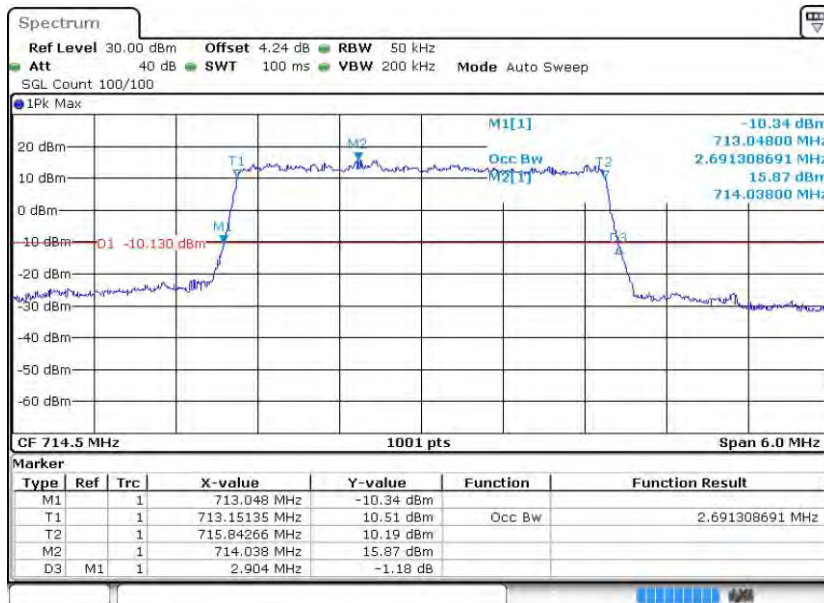
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Date: 16 JAN 2024 18:40:03

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



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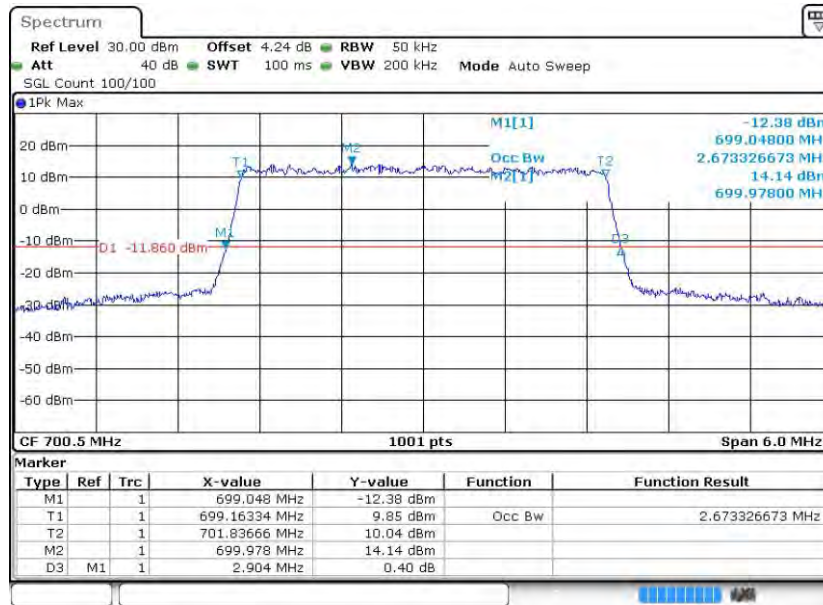
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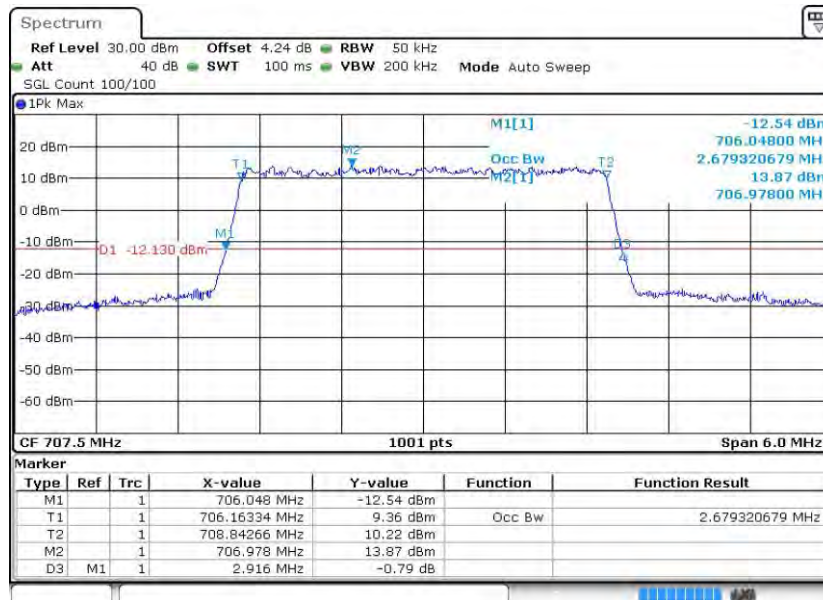
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Band12-3MHz-16QAM-23095-15RB#0



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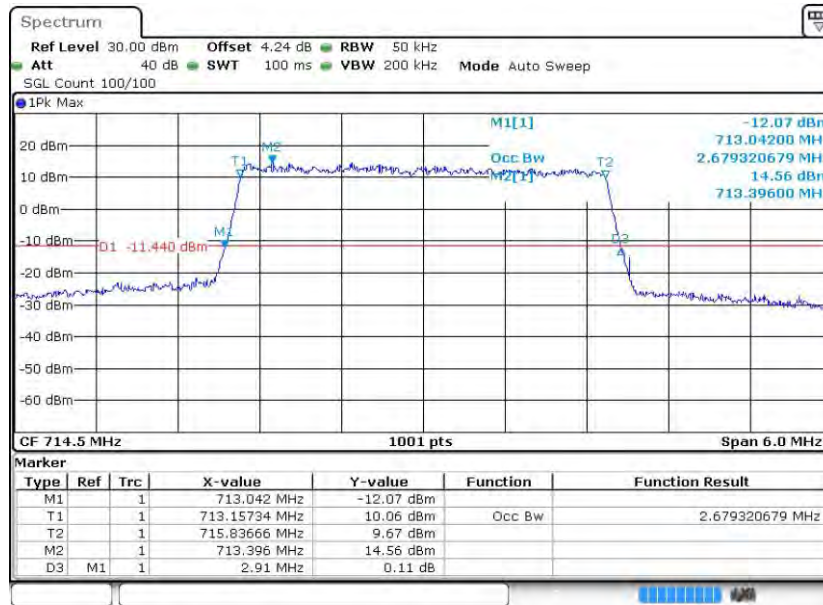
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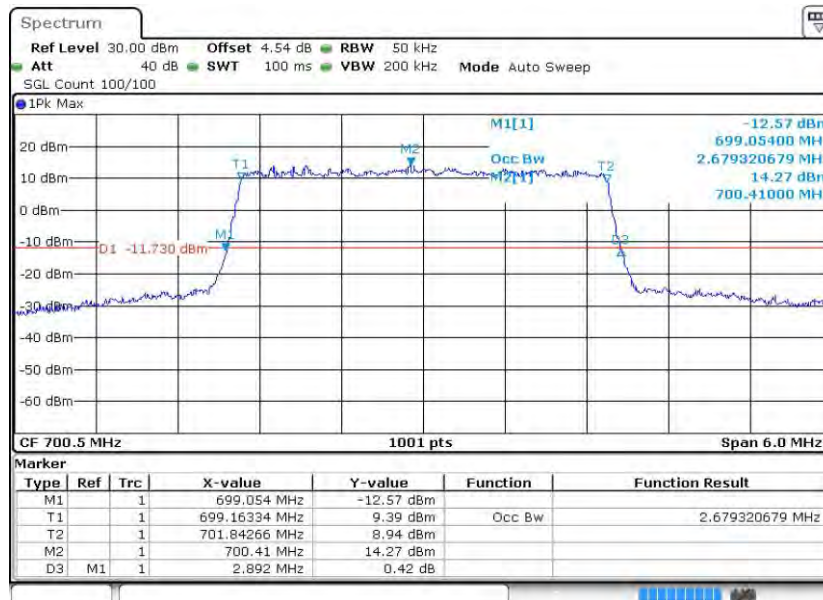
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Date: 16 JAN 2024 18:41:13

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



Date: 25 JAN 2024 15:58:25



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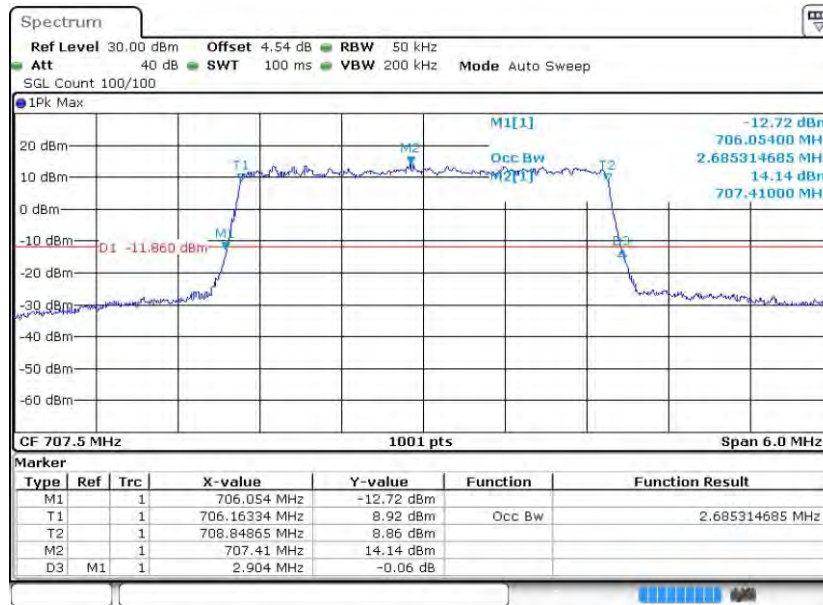
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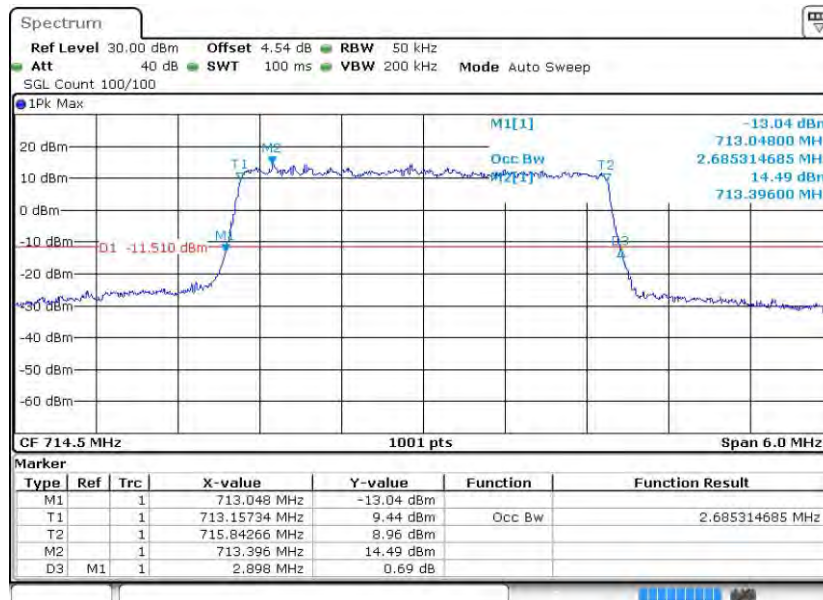
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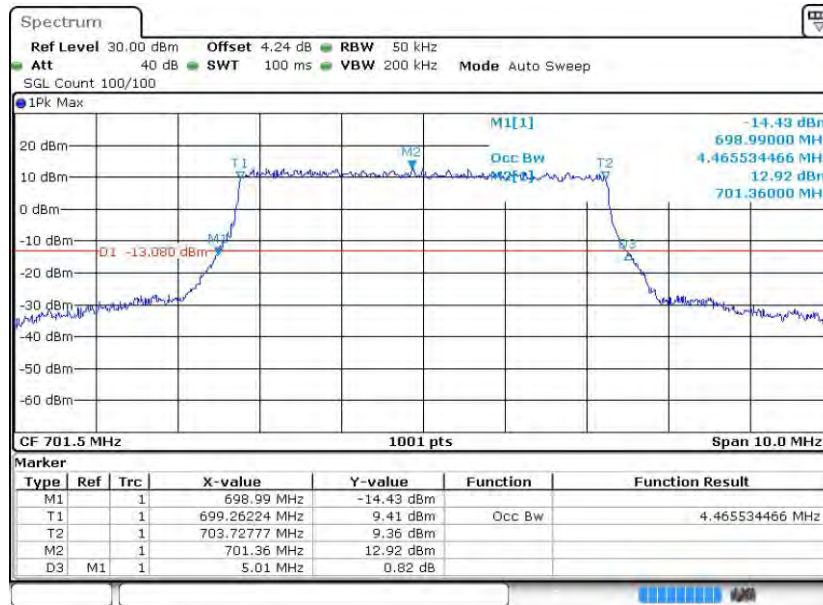
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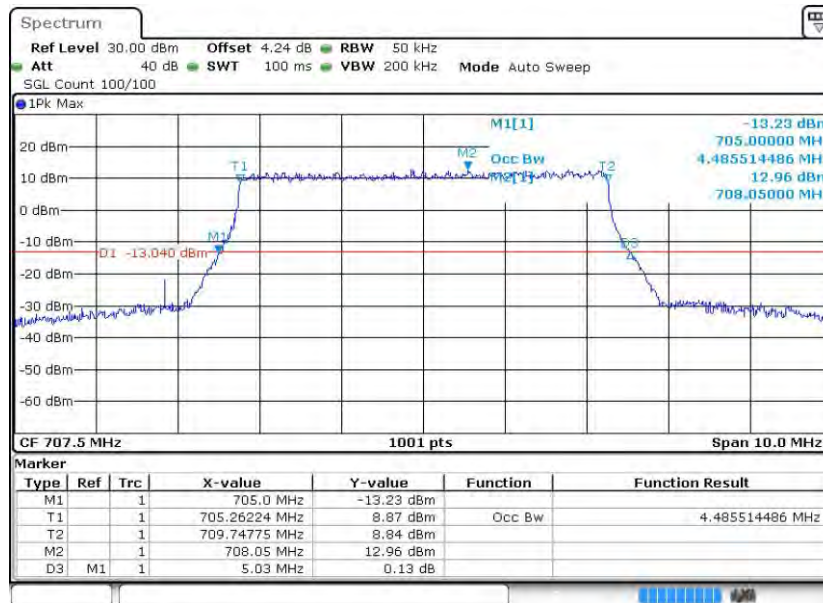
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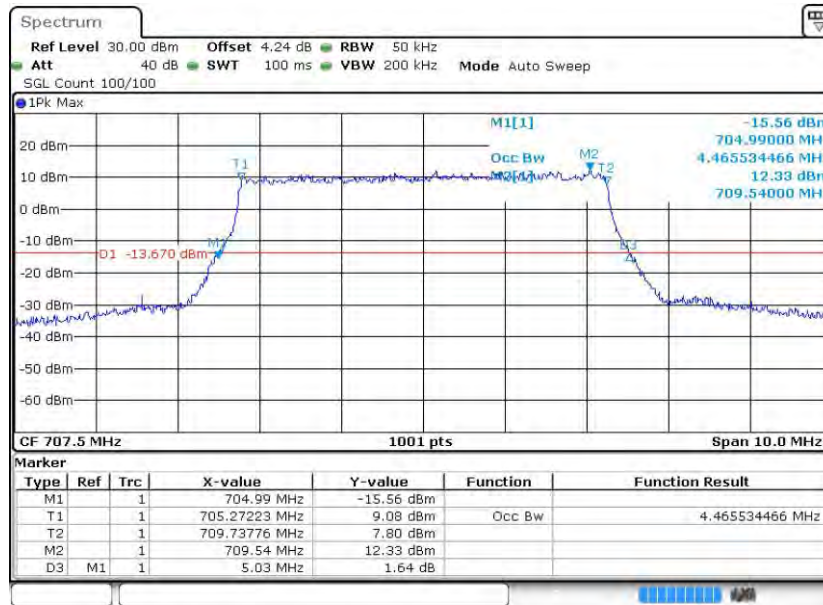
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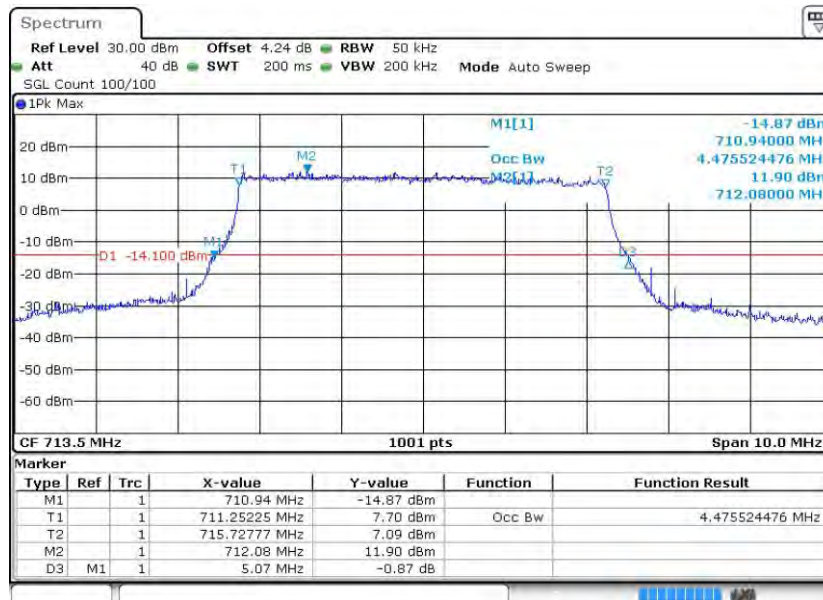
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Band12-5MHz-16QAM-23155-25RB#0



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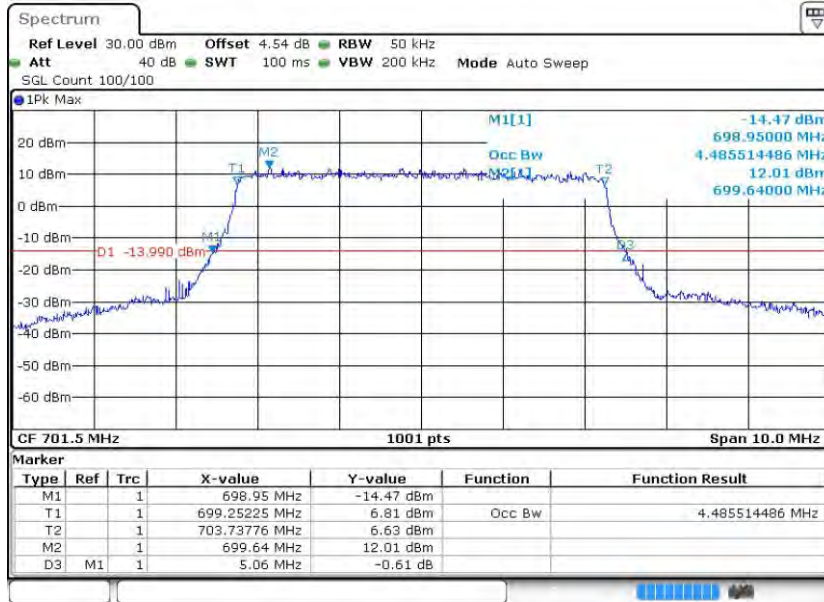
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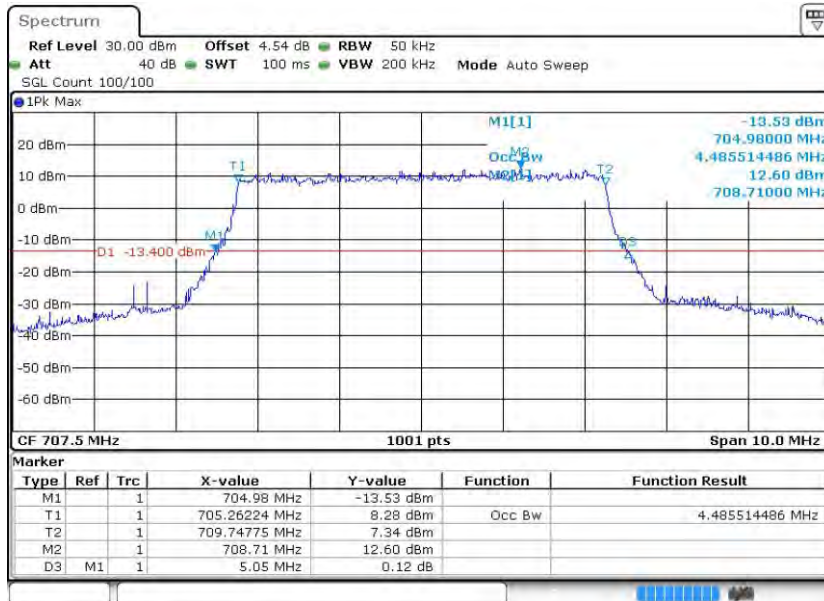
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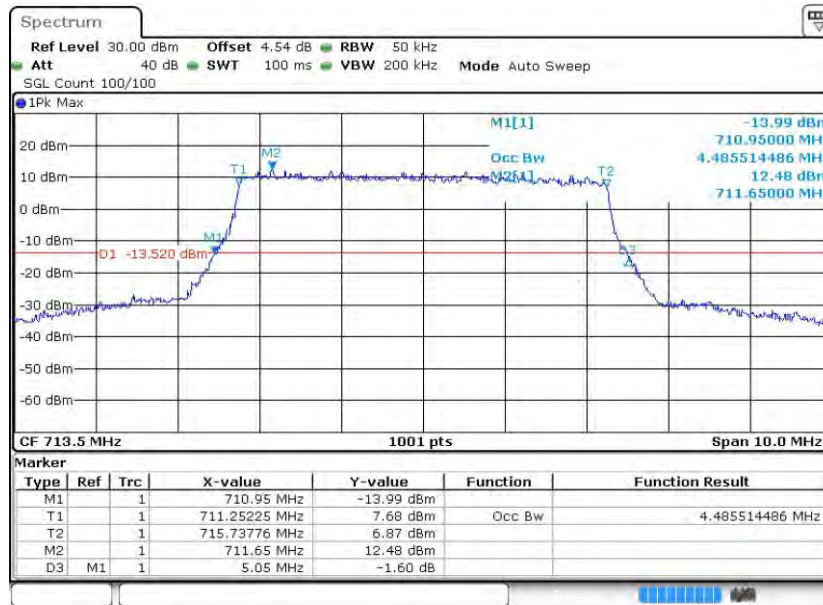
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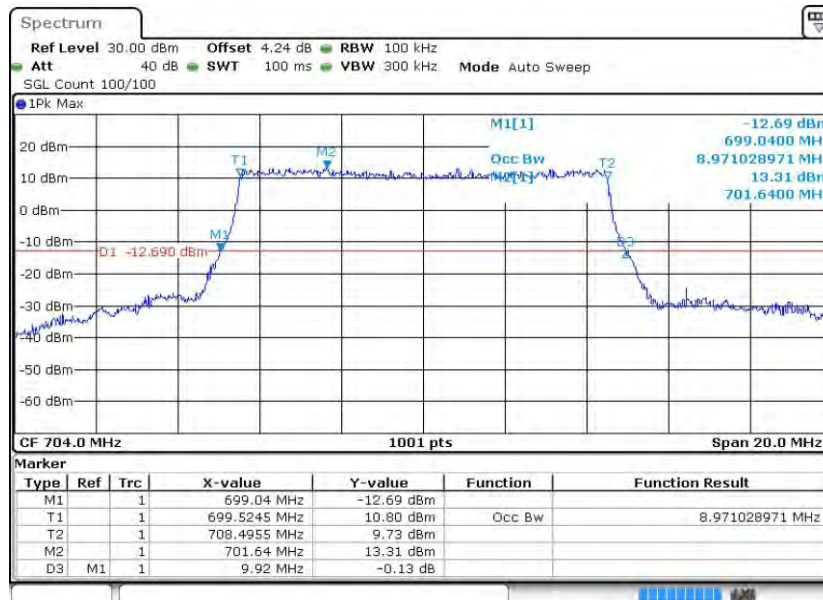
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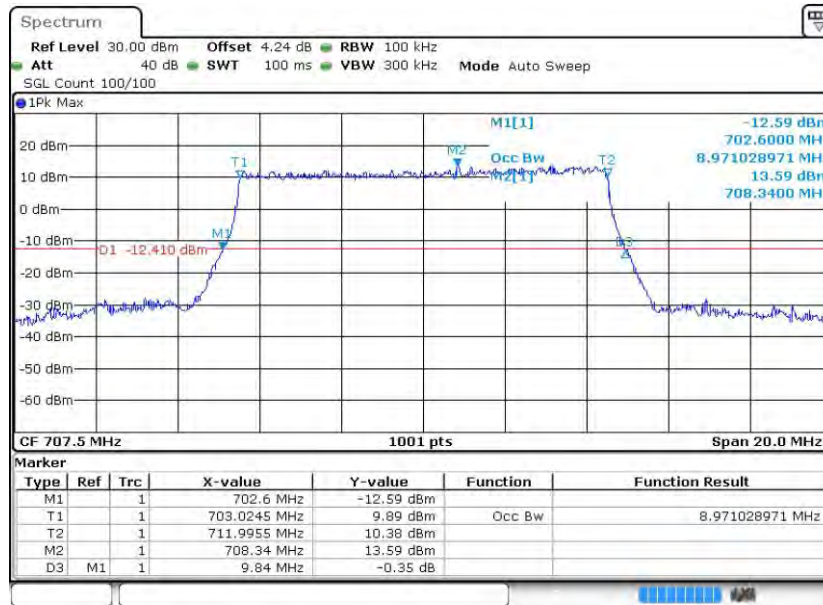
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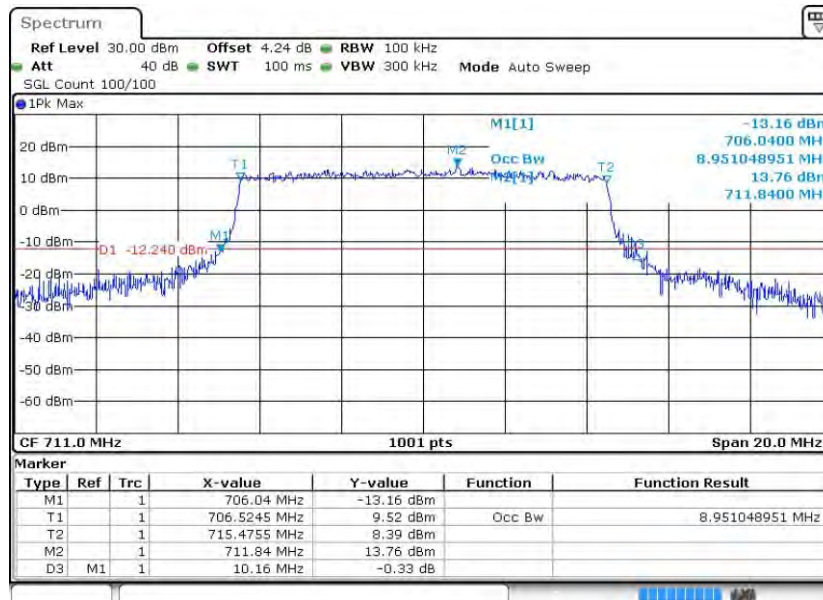
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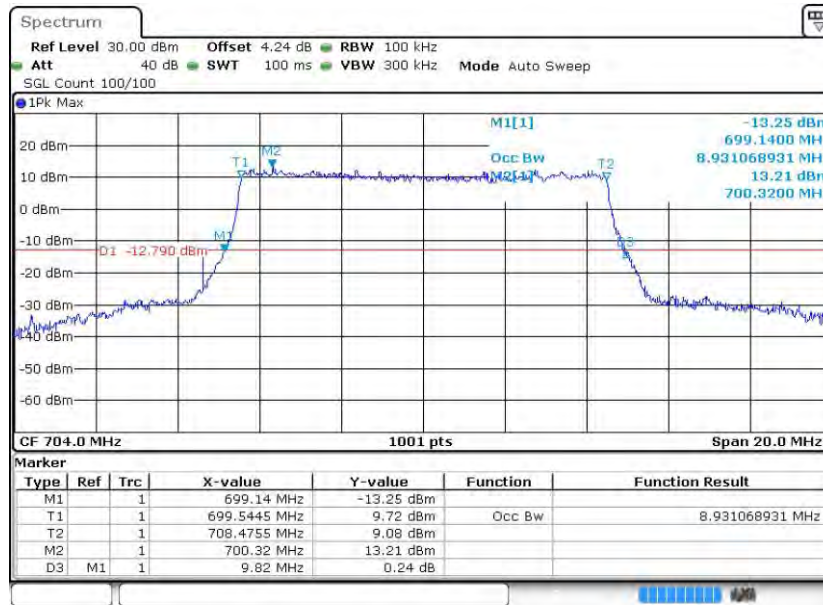
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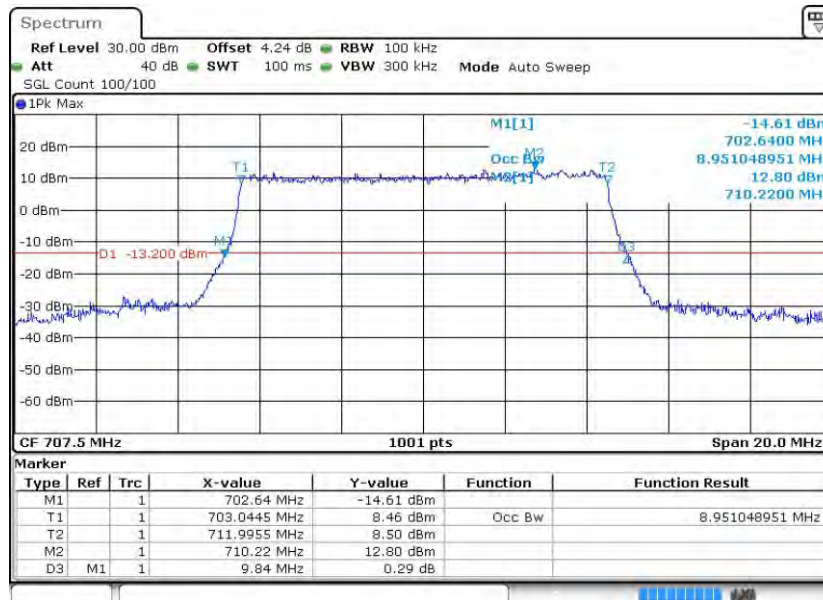
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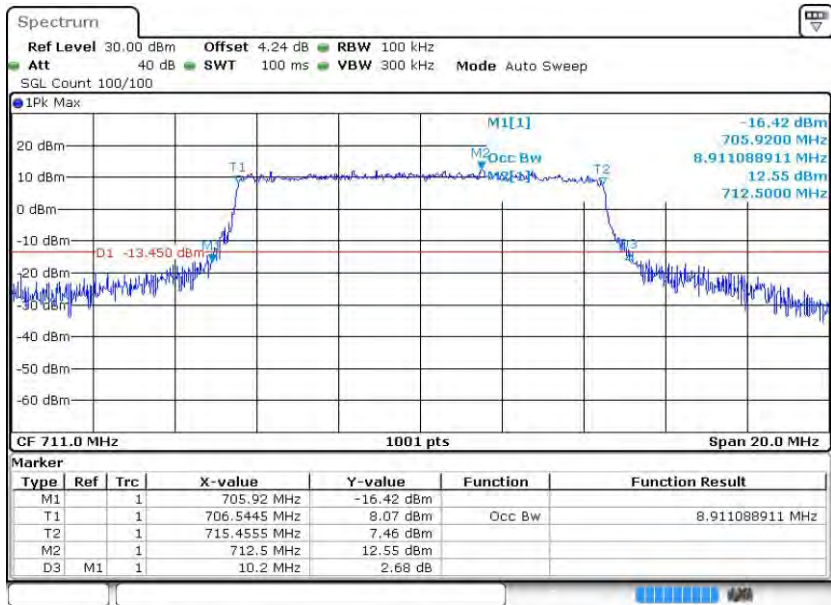
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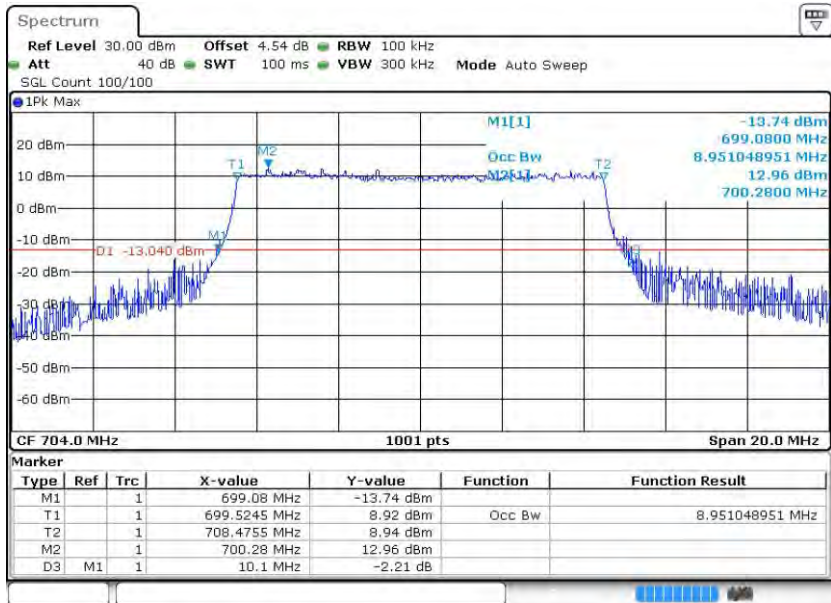
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Band12-10MHz-64QAM-23060-50RB#0



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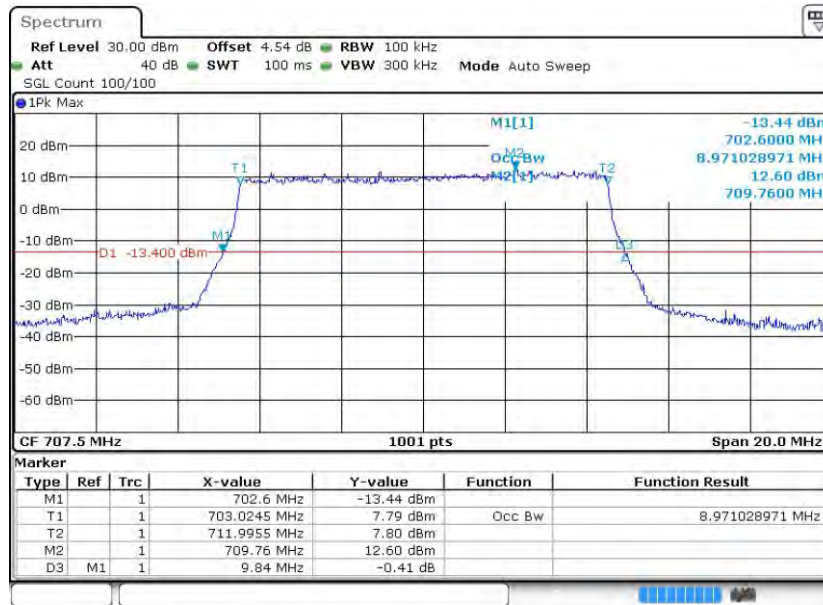
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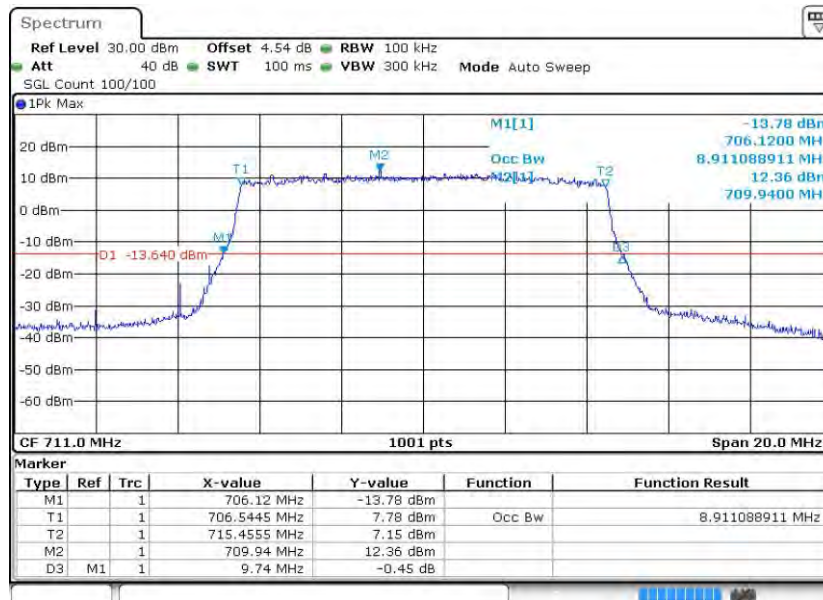
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Band12-10MHz-64QAM-23095-50RB#0



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



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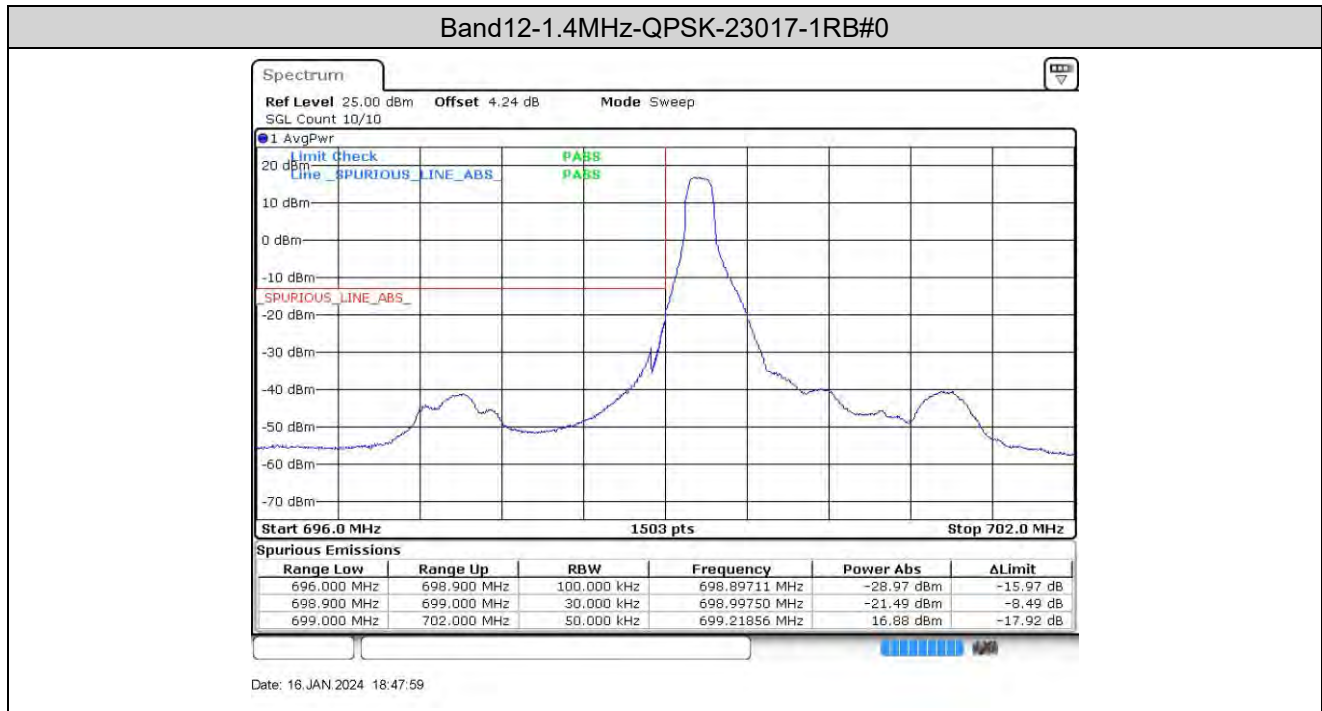


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Band Edge

Test Graphs



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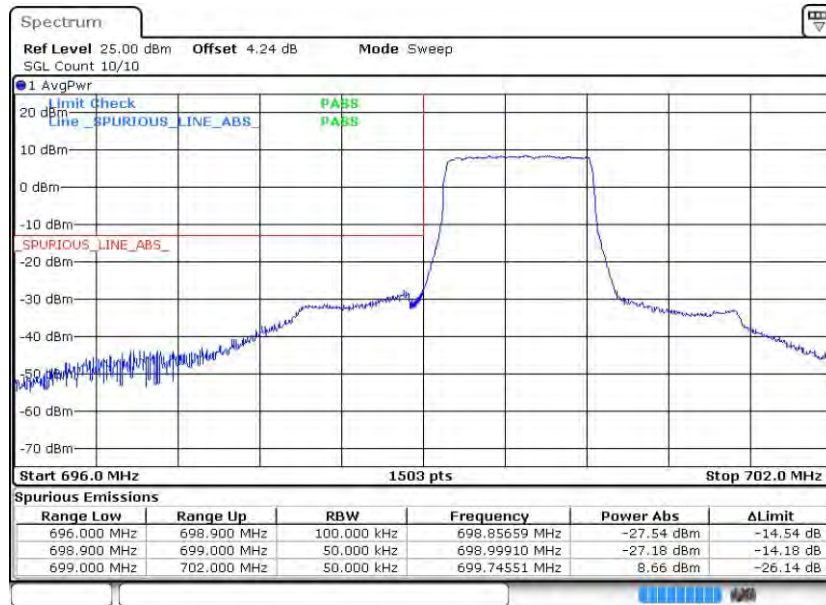
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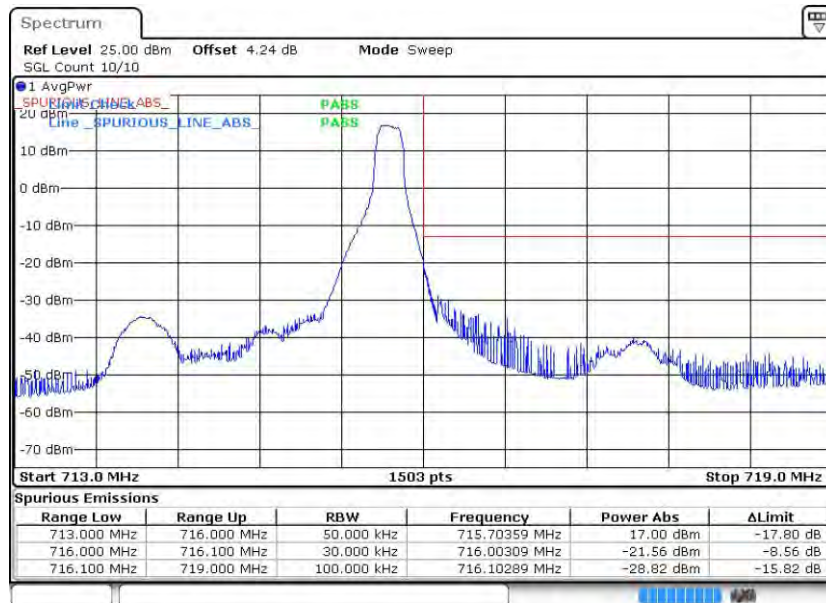
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Band12-1.4MHz-QPSK-23017-6RB#0



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



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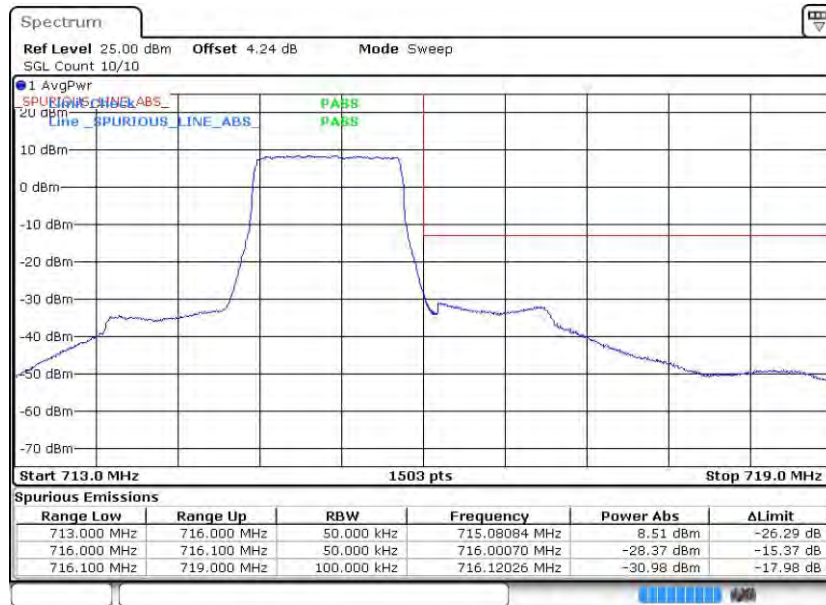
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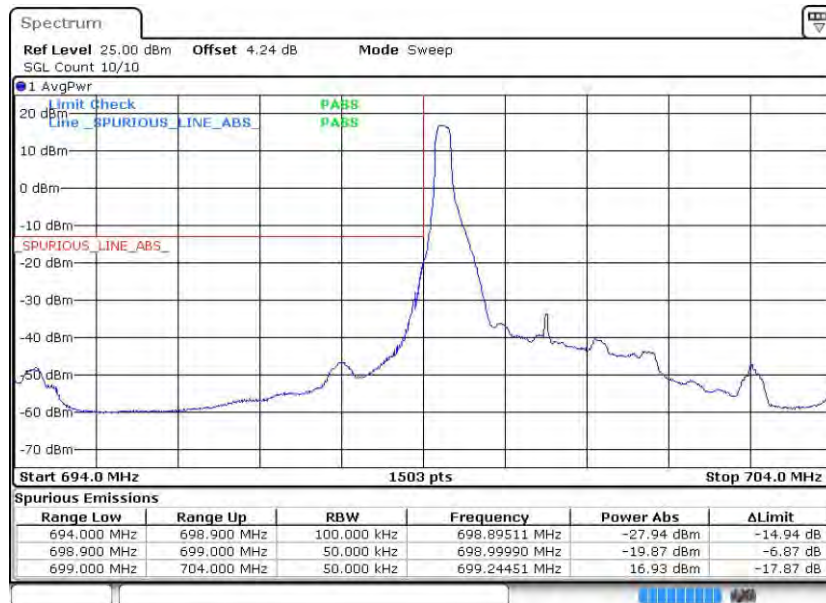
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Band12-1.4MHz-QPSK-23173-6RB#0



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



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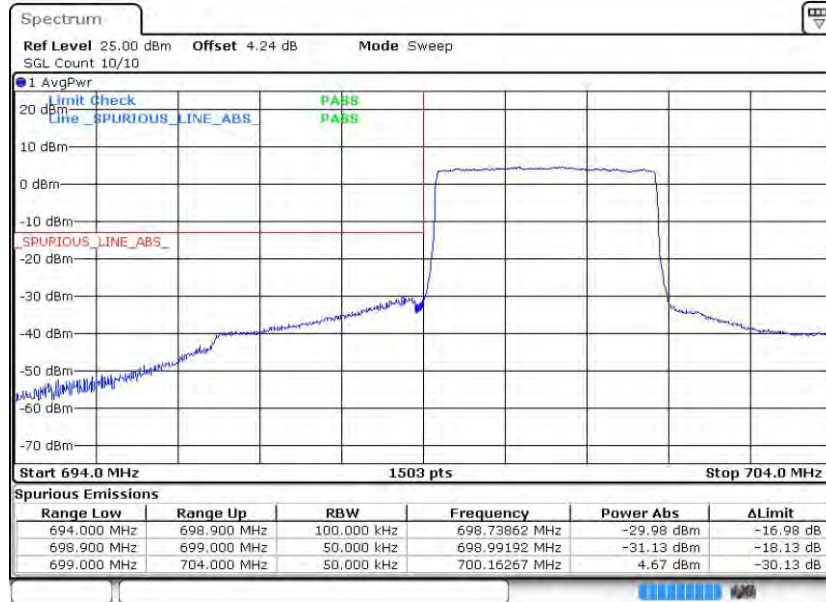
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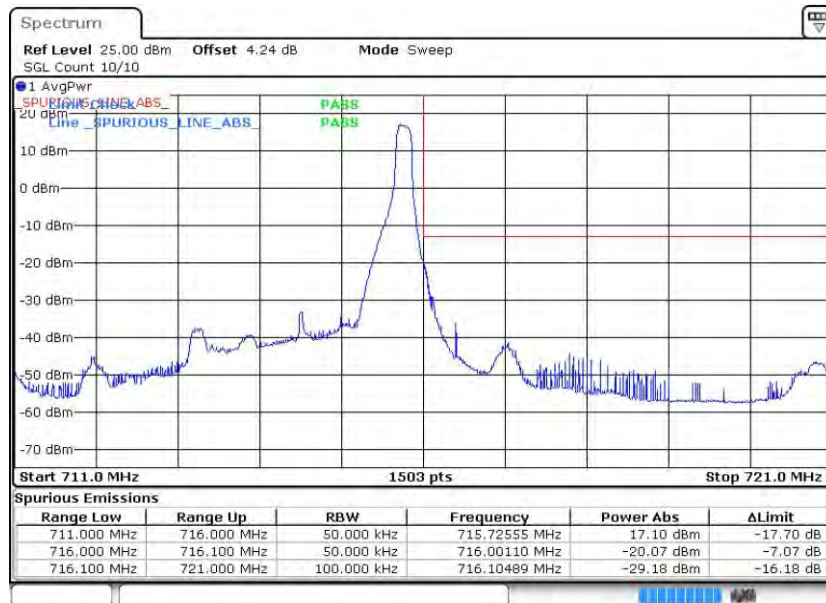
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Band12-3MHz-QPSK-23025-15RB#0



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



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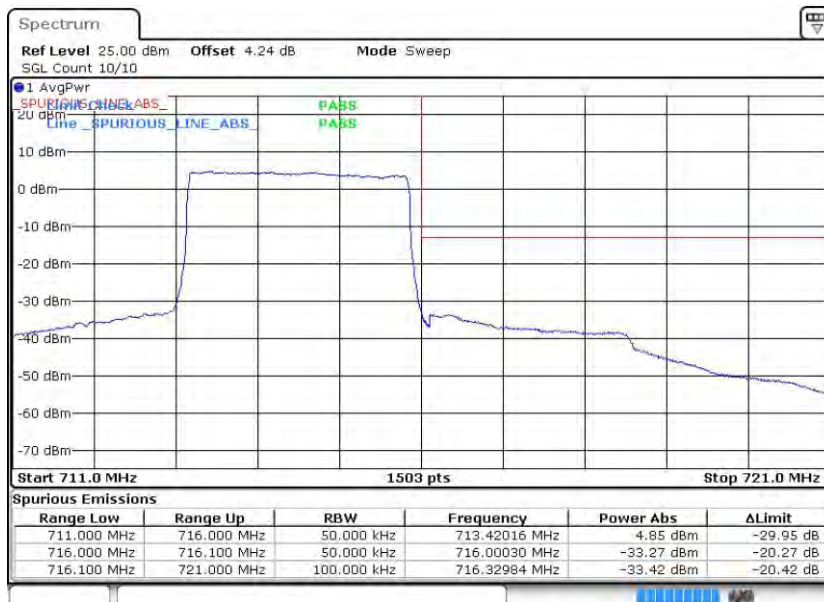
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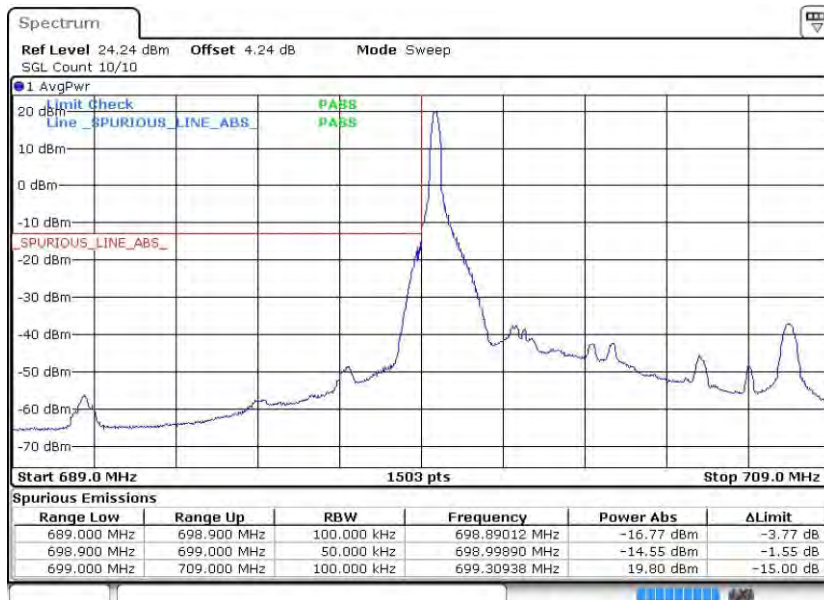
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Band12-3MHz-QPSK-23165-15RB#0



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



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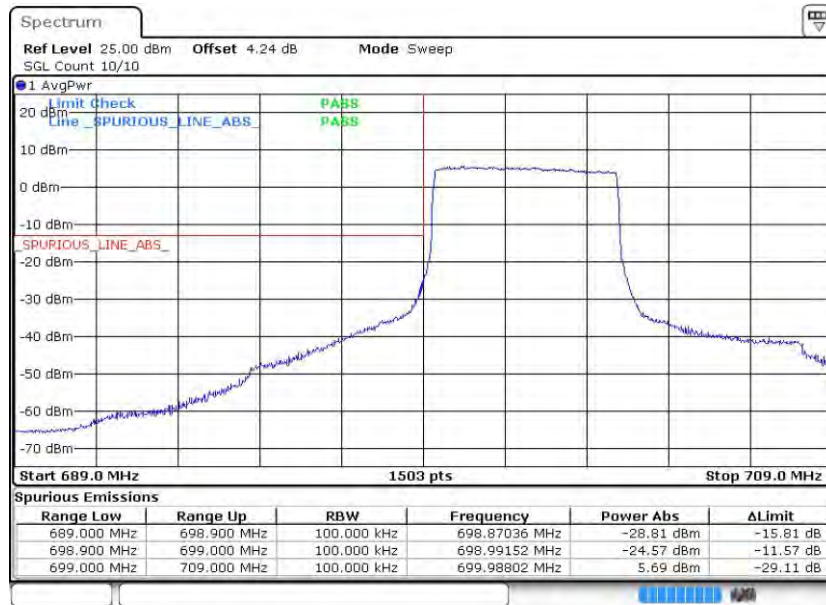
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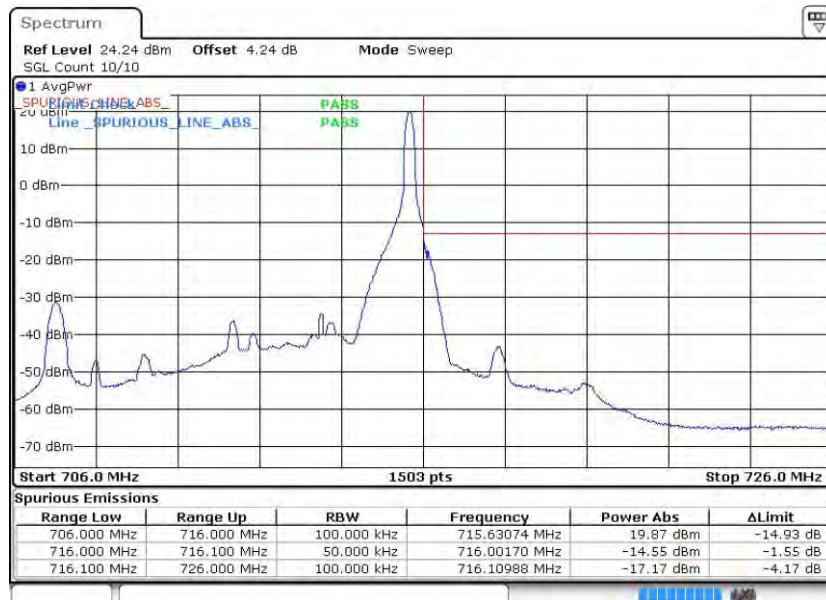
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Band12-5MHz-QPSK-23155-1RB#24



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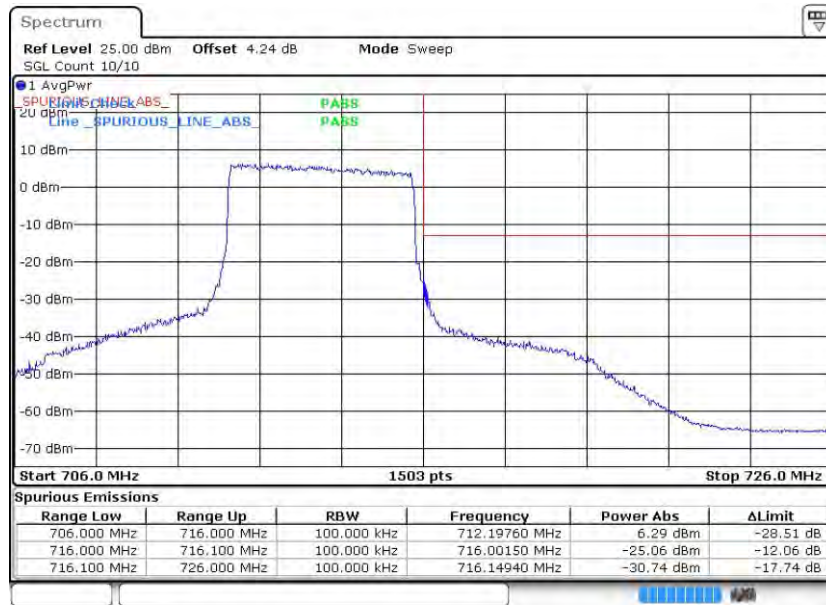
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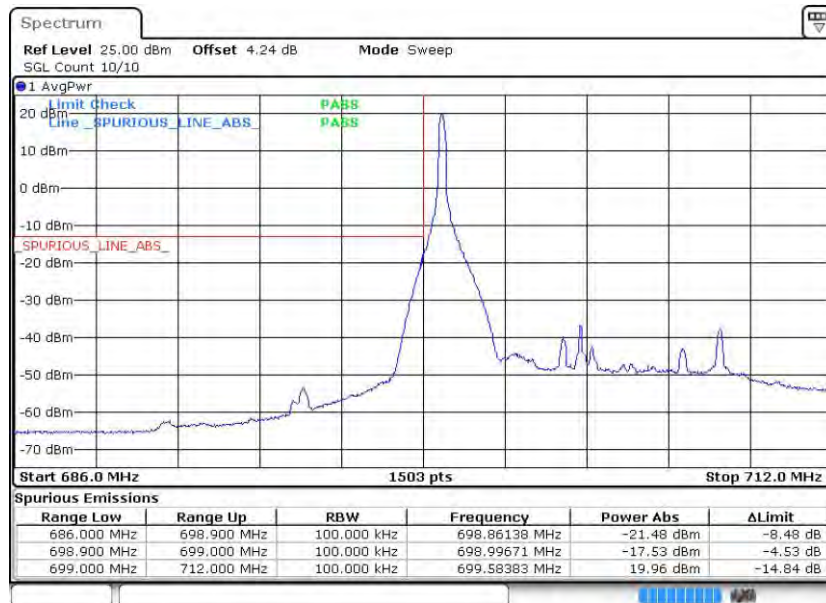
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Band12-10MHz-QPSK-23060-1RB#0



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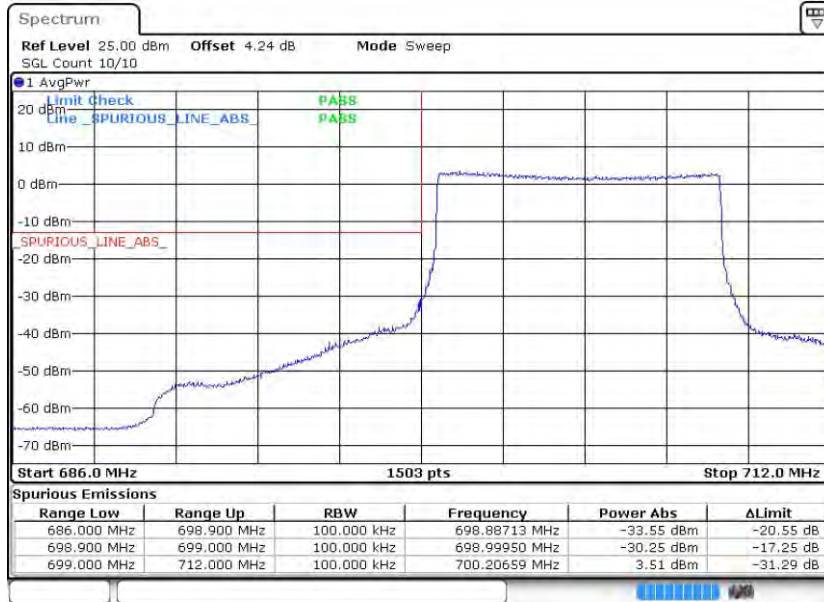
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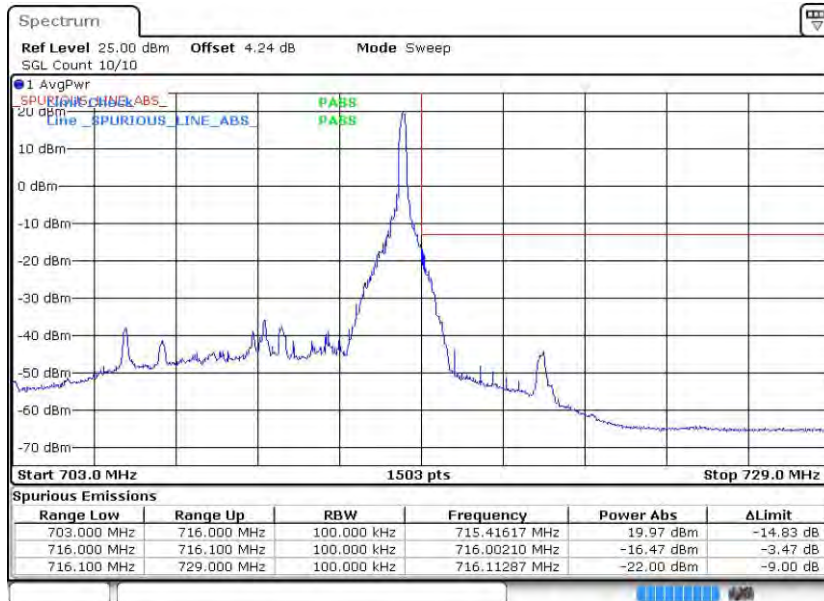
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Band12-10MHz-QPSK-23060-50RB#0



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



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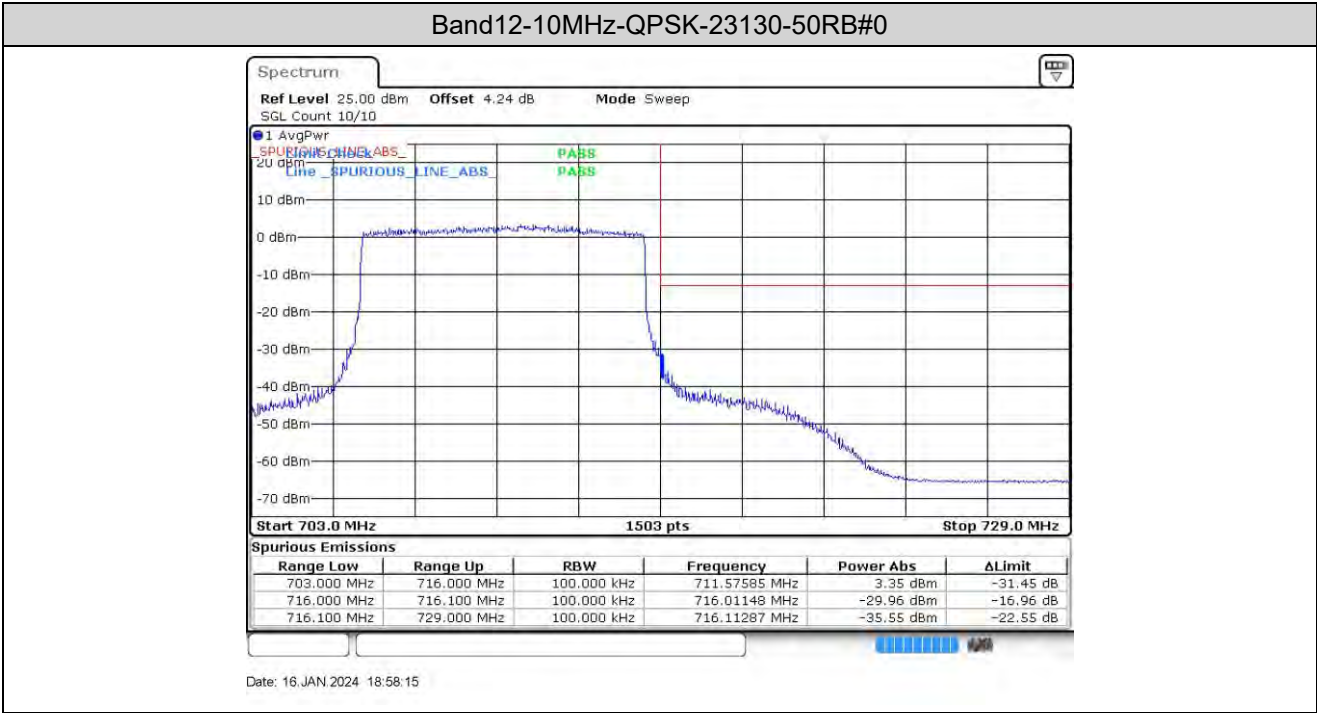
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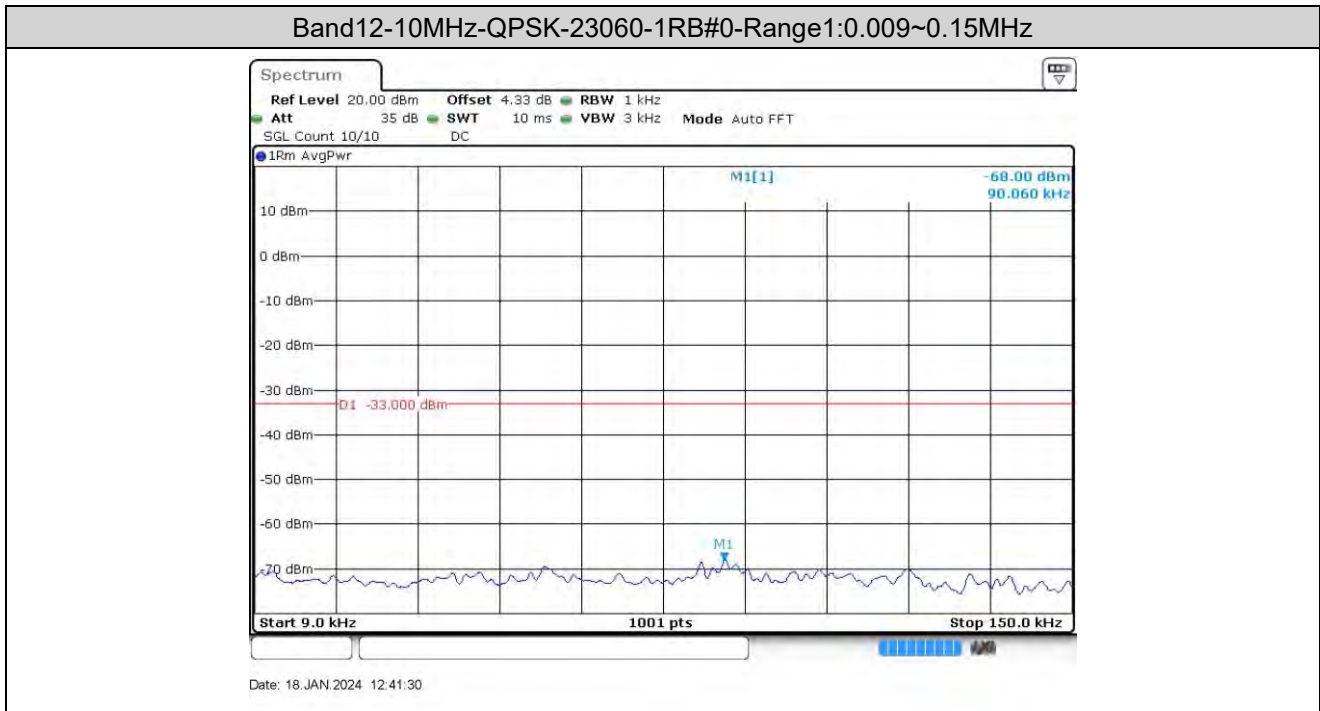


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Conducted Spurious Emission

Test Graphs



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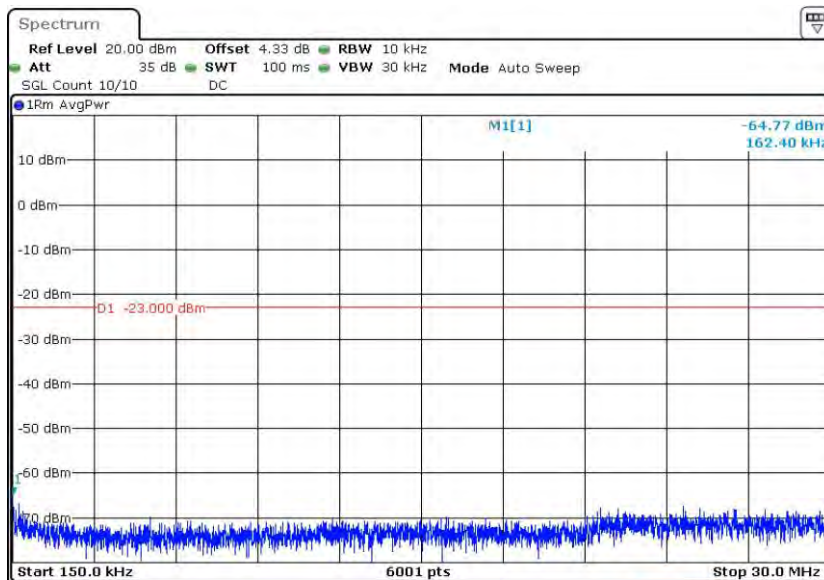
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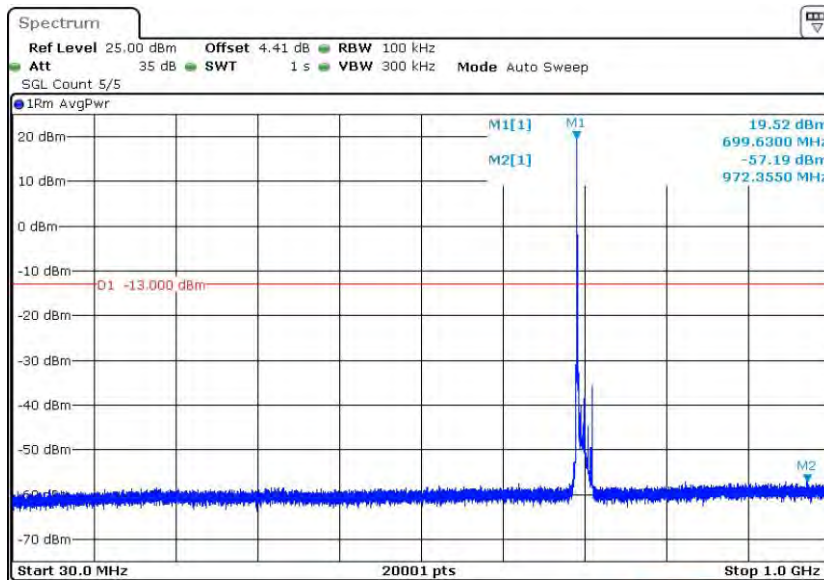
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Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



Date: 18 JAN 2024 12:41:33

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



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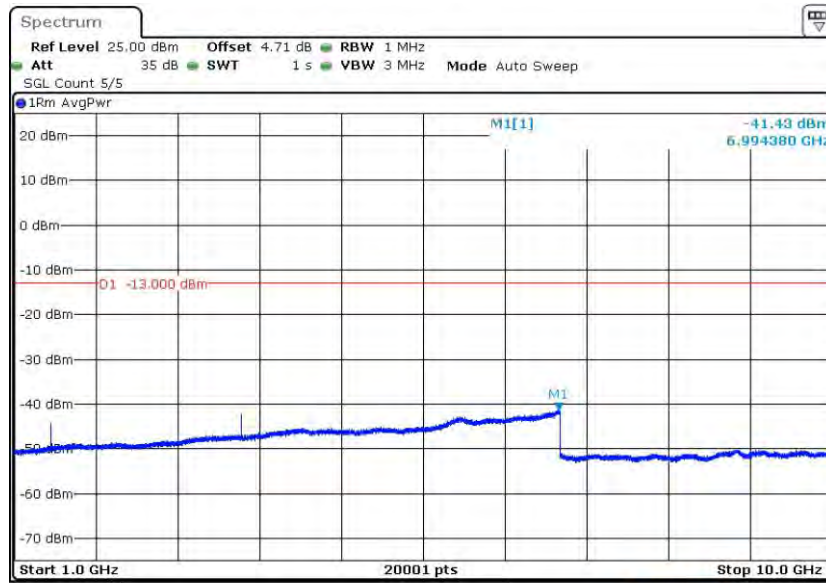
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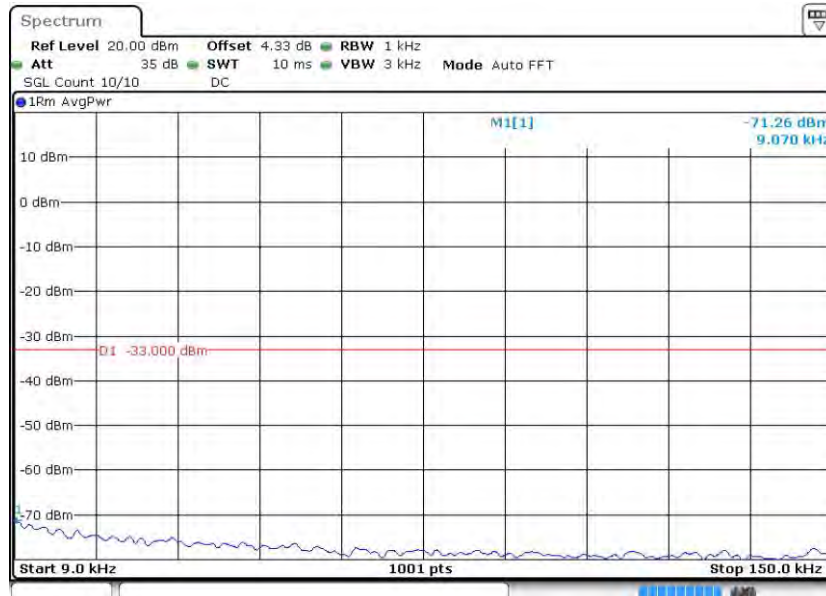
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Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



Date: 18 JAN 2024 12:41:48

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



Date: 18 JAN 2024 12:42:11



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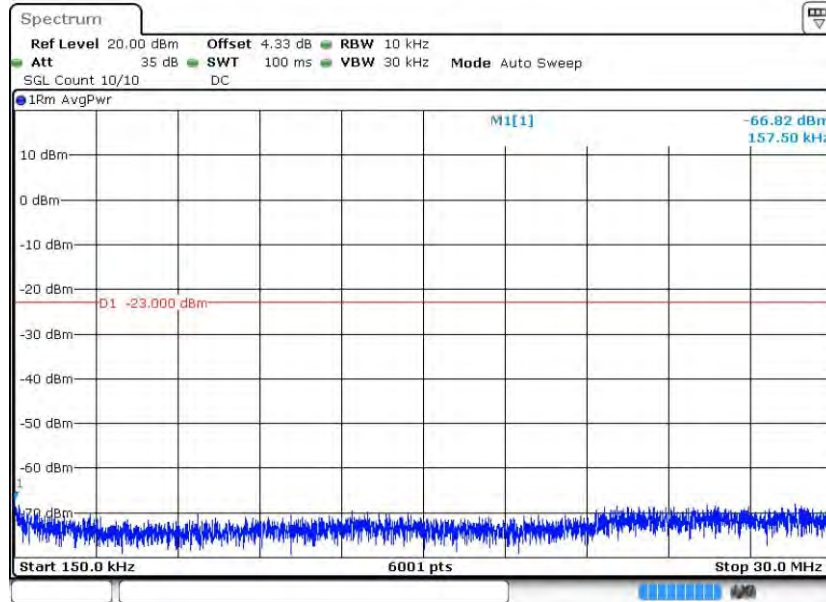
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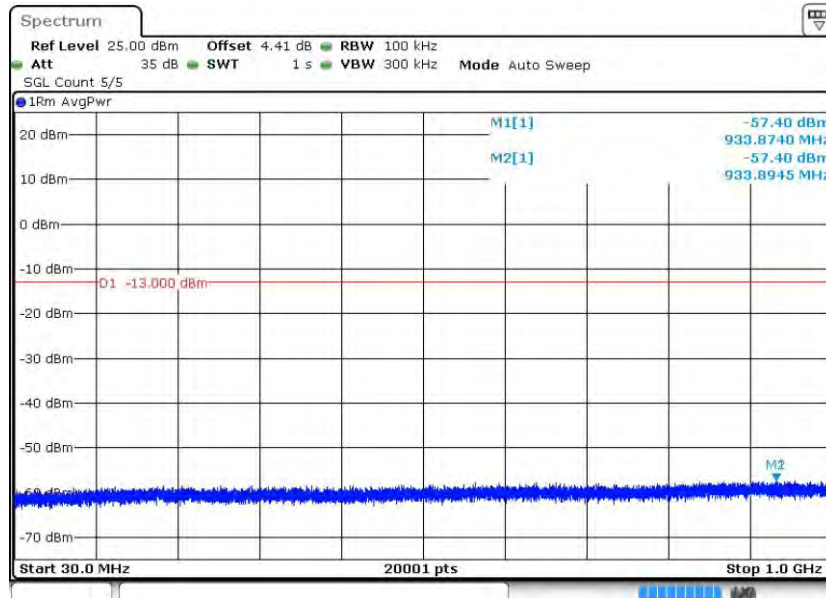
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Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



Date: 18 JAN 2024 12:42:14

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



Date: 18 JAN 2024 12:42:22



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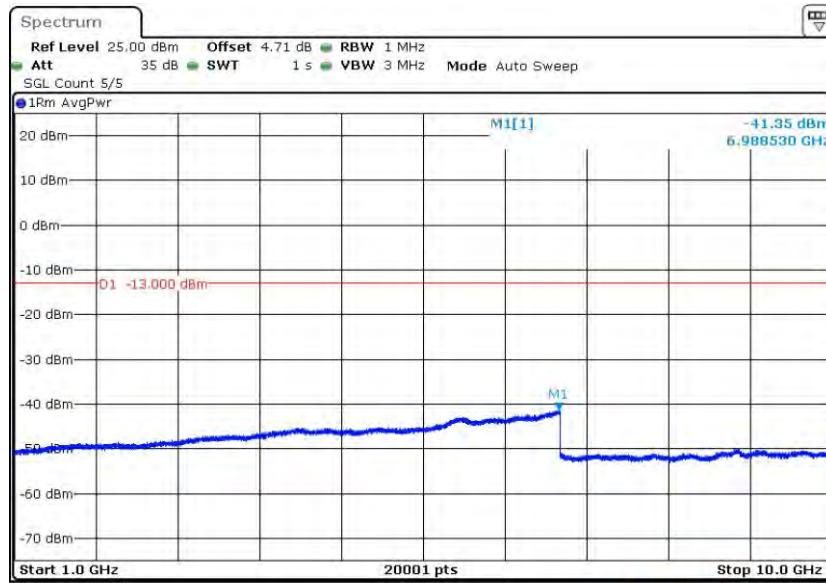
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Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



Date: 18 JAN 2024 12:42:30

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



Date: 18 JAN 2024 12:43:15



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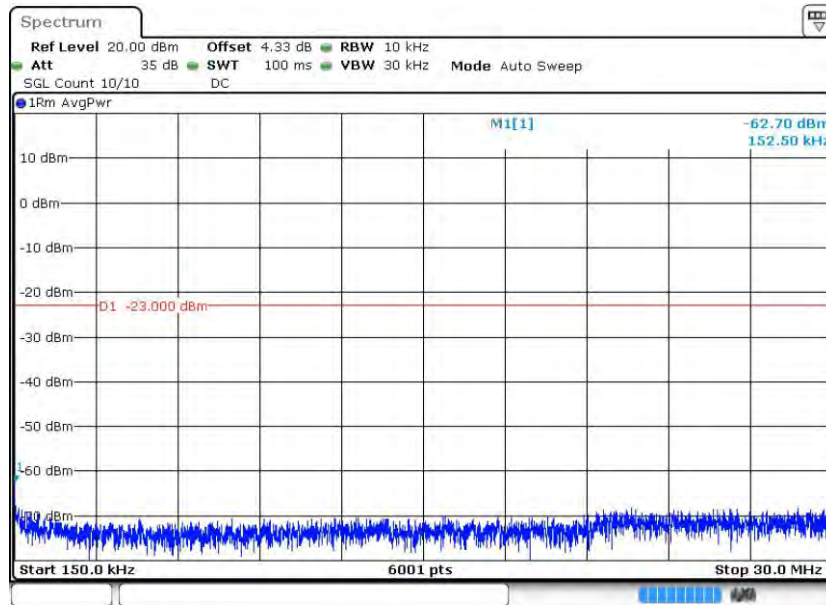
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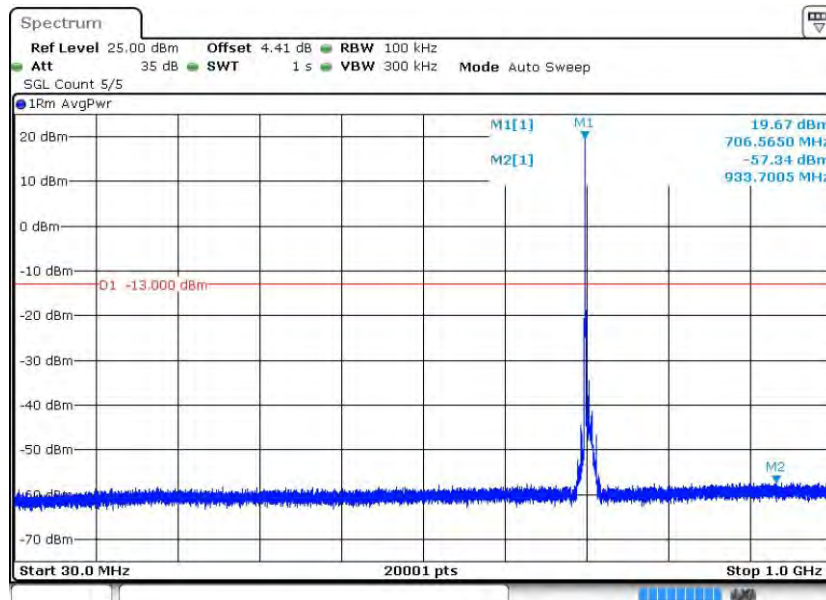
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Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



Date: 18 JAN 2024 12:43:18

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



Date: 18 JAN 2024 12:43:26



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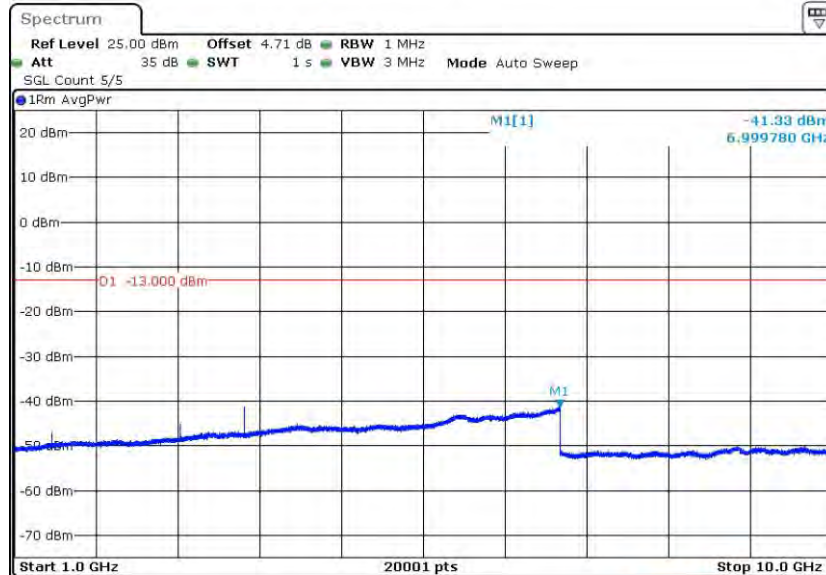
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Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



Date: 18 JAN 2024 12:43:34



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Field Strength of Spurious Radiation

Test Band = B12_ TM1

Test Channel = low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.9125	66.55	24.20	-49.12	-53.63	-13.00	40.63	Horizontal
2	2098.625	69.14	26.44	-48.18	-47.86	-13.00	34.86	Horizontal
3	2798.3375	61.50	28.12	-47.31	-52.95	-13.00	39.95	Horizontal
4	3498.05	69.51	28.70	-47.38	-44.43	-13.00	31.43	Horizontal
5	4197.7625	46.80	29.78	-47.13	-65.81	-13.00	52.81	Horizontal
6	5631.85	51.51	32.55	-46.79	-57.99	-13.00	44.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.9125	63.30	24.20	-49.12	-56.88	-13.00	43.88	Vertical
2	2098.625	67.48	26.44	-48.18	-49.52	-13.00	36.52	Vertical
3	2798.3375	63.00	28.12	-47.31	-51.45	-13.00	38.45	Vertical
4	3497.4625	65.40	28.70	-47.38	-48.54	-13.00	35.54	Vertical
5	4197.7625	45.68	29.78	-47.13	-66.93	-13.00	53.93	Vertical
6	5631.85	52.04	32.55	-46.79	-57.46	-13.00	44.46	Vertical



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Test Band = B12_ TM1
Test Channel = mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	62.75	24.22	-49.11	-57.40	-13.00	44.40	Horizontal
2	2109.2	68.63	26.46	-48.19	-48.36	-13.00	35.36	Horizontal
3	2811.85	61.42	28.15	-47.34	-53.03	-13.00	40.03	Horizontal
4	3515.0875	69.53	28.72	-47.43	-44.44	-13.00	31.44	Horizontal
5	4218.9125	47.66	29.81	-47.11	-64.90	-13.00	51.90	Horizontal
6	5660.05	52.27	32.54	-46.82	-57.27	-13.00	44.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1405.9625	62.04	24.22	-49.11	-58.11	-13.00	45.11	Vertical
2	2109.2	68.78	26.46	-48.19	-48.21	-13.00	35.21	Vertical
3	2812.4375	63.56	28.15	-47.34	-50.89	-13.00	37.89	Vertical
4	3515.0875	64.86	28.72	-47.43	-49.11	-13.00	36.11	Vertical
5	4218.325	46.32	29.81	-47.11	-66.24	-13.00	53.24	Vertical
6	5660.05	51.40	32.54	-46.82	-58.14	-13.00	45.14	Vertical



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Test Band = B12_ TM1

Test Channel = high channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0125	58.46	24.24	-49.11	-61.67	-13.00	48.67	Horizontal
2	2119.1875	64.63	26.49	-48.21	-52.35	-13.00	39.35	Horizontal
3	2825.95	56.71	28.18	-47.39	-57.76	-13.00	44.76	Horizontal
4	3532.7125	65.36	28.75	-47.50	-48.65	-13.00	35.65	Horizontal
5	4239.475	45.80	29.84	-47.10	-66.72	-13.00	53.72	Horizontal
6	5688.25	50.68	32.52	-46.86	-58.92	-13.00	45.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0125	59.32	24.24	-49.11	-60.81	-13.00	47.81	Vertical
2	2119.775	67.08	26.49	-48.22	-49.91	-13.00	36.91	Vertical
3	2825.95	60.85	28.18	-47.39	-53.62	-13.00	40.62	Vertical
4	3532.7125	63.02	28.75	-47.50	-50.99	-13.00	37.99	Vertical
5	4239.475	45.70	29.84	-47.10	-66.82	-13.00	53.82	Vertical
6	5688.25	50.40	32.52	-46.86	-59.20	-13.00	46.20	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-9.40	-0.013286	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-10.50	-0.014841	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-8.50	-0.012014	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-5.80	-0.008198	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-6.70	-0.009470	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-6.30	-0.008905	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.20	-0.008763	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.50	-0.009187	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-10.00	-0.014134	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-3.60	-0.005088	PASS

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