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Rev.: 01

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Appendix B.5

LTE Band 12



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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

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	22.8	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.77	21.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.79	21.94	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.79	20.94	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.85	22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.68	21.83	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.7	21.85	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.66	20.81	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.63	21.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.52	21.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.63	21.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.56	20.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.7	20.85	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.06	21.21	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.86	21.01	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.88	20.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.79	20.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.85	21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.96	21.11	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.63	19.78	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.62	20.77	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.64	20.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.54	20.69	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.55	19.7	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.06	20.21	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.98	20.13	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.85	20	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.86	19.01	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.66	19.81	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.93	20.08	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.91	20.06	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.66	18.81	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.61	19.76	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.77	19.92	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.84	19.99	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.59	18.74	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	17.85	17	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	17.84	16.99	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	17.82	16.97	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	17.77	16.92	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	17.65	16.8	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	17.86	17.01	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	17.82	16.97	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	17.64	16.79	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	17.65	16.8	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	17.6	16.75	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	17.52	16.67	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	17.57	16.72	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.71	21.86	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.81	21.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.65	21.8	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.79	20.94	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.88	22.03	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.78	21.93	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.55	21.7	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.65	20.8	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.69	21.84	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.62	21.77	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.49	21.64	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.64	20.79	34.77	PASS



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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

Band12	3MHz	16QAM	23025	1RB#0	21.79	20.94	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.94	21.09	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.79	20.94	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.83	19.98	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.66	20.81	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.9	21.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.85	21	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.68	19.83	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.89	21.04	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.75	20.9	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.61	20.76	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.63	19.78	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.92	20.07	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.09	20.24	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.87	20.02	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.81	18.96	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.88	20.03	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.88	20.03	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.94	20.09	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.71	18.86	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.69	19.84	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.73	19.88	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.65	19.8	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.59	18.74	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	17.72	16.87	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	17.95	17.1	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	17.7	16.85	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	17.89	17.04	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	17.66	16.81	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	17.78	16.93	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	17.72	16.87	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	17.7	16.85	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	17.67	16.82	34.77	PASS



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Band12	3MHz	256QAM	23165	1RB#8	17.82	16.97	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	17.57	16.72	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	17.55	16.7	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.8	21.95	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.78	21.93	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.73	21.88	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.83	20.98	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.21	22.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.81	21.96	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.7	21.85	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.68	20.83	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.96	22.11	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.64	21.79	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.47	21.62	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.59	20.74	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.94	21.09	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.92	21.07	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.81	20.96	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.83	19.98	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.87	21.02	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.88	21.03	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.85	21	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.66	19.81	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.78	20.93	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.79	20.94	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.84	20.99	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.71	19.86	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.93	20.08	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.82	19.97	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.9	20.05	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.8	18.95	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.77	19.92	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.87	20.02	34.77	PASS



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t (86-512) 62992980 www.sgs.com.cn
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Band12	5MHz	64QAM	23095	1RB#24	20.74	19.89	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.69	18.84	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.87	20.02	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	20.91	20.06	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.85	20	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.6	18.75	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	17.87	17.02	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	17.91	17.06	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	17.78	16.93	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	17.86	17.01	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	17.67	16.82	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	17.74	16.89	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	17.71	16.86	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	17.66	16.81	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	17.57	16.72	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	17.68	16.83	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	17.77	16.92	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	17.55	16.7	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.76	21.91	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.7	21.85	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.66	21.81	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.77	20.92	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.85	22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.7	21.85	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.59	21.74	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.75	20.9	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.21	22.36	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.65	21.8	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.66	21.81	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.68	20.83	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.99	21.14	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.9	21.05	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.85	21	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	20.76	19.91	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.95	21.1	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.84	20.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.62	20.77	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.69	19.84	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.77	20.92	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.77	20.92	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.65	20.8	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.69	19.84	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.94	20.09	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.97	20.12	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.81	19.96	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.84	18.99	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.96	20.11	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.76	19.91	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.68	19.83	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.66	18.81	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.76	19.91	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.94	20.09	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.65	19.8	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.65	18.8	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	17.81	16.96	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	17.79	16.94	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	17.76	16.91	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	17.8	16.95	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	17.71	16.86	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	17.95	17.1	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	17.74	16.89	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	17.71	16.86	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	17.72	16.87	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	17.77	16.92	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	17.7	16.85	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	17.72	16.87	34.77	PASS



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Rev.: 01
Page: 8 of 65



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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	5.64	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.60	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.50	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.54	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.40	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.88	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.96	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.82	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	7.04	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.94	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.88	13	PASS



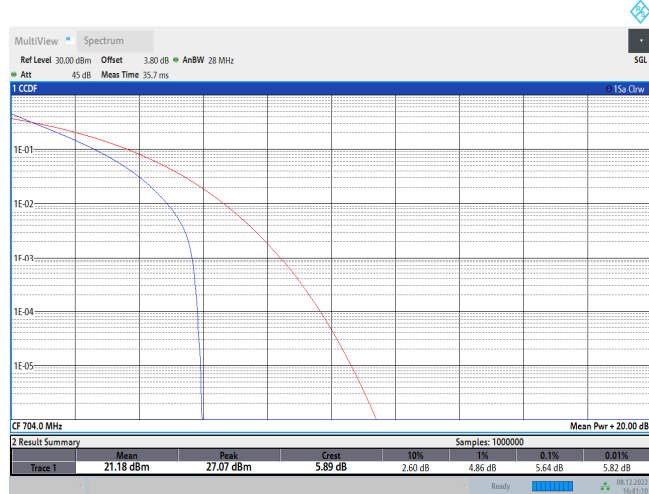
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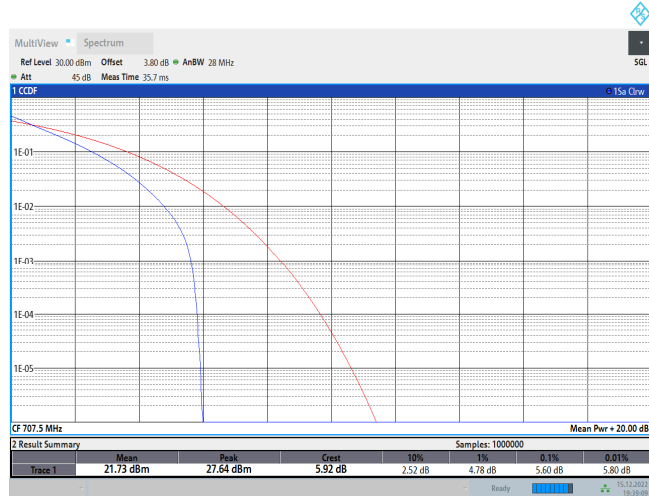
Test Graphs

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



16:41:11 08.12.2022

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



19:39:09 15.12.2022



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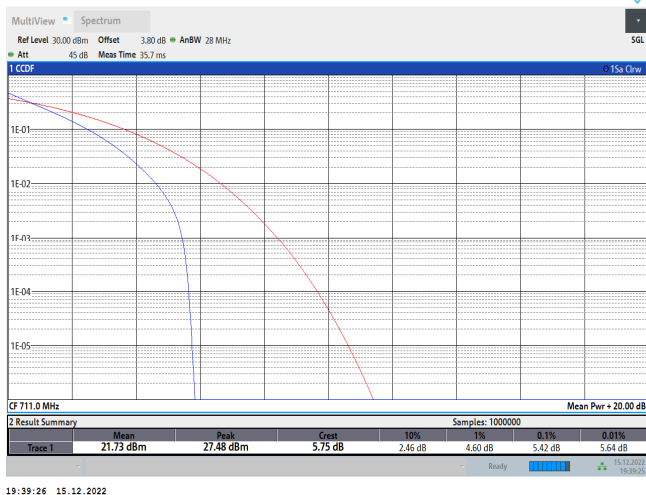
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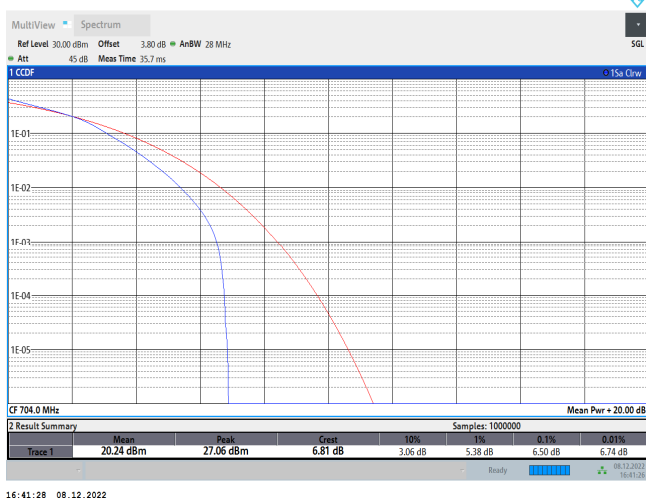
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Band12-10MHz-QPSK-23130-50RB#0

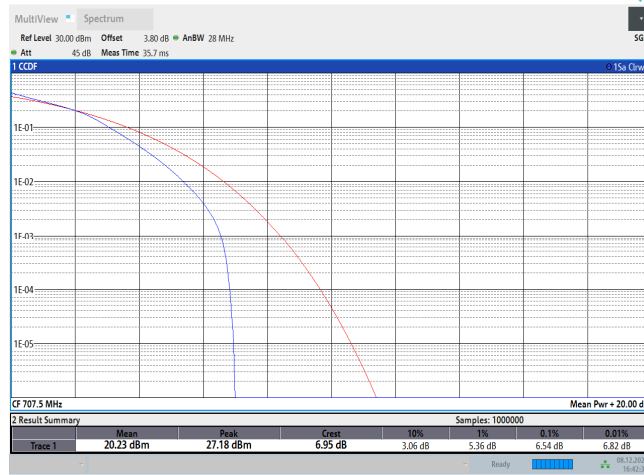


Band12-10MHz-16QAM-23060-50RB#0



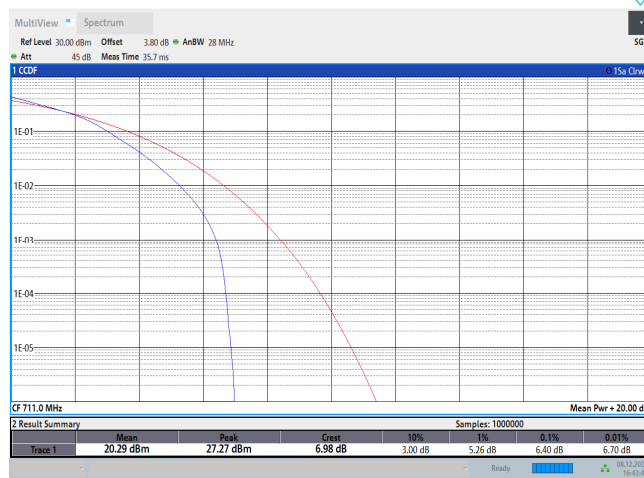
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Band12-10MHz-16QAM-23095-50RB#0



16:42:35 08.12.2022

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



16:43:42 08.12.2022

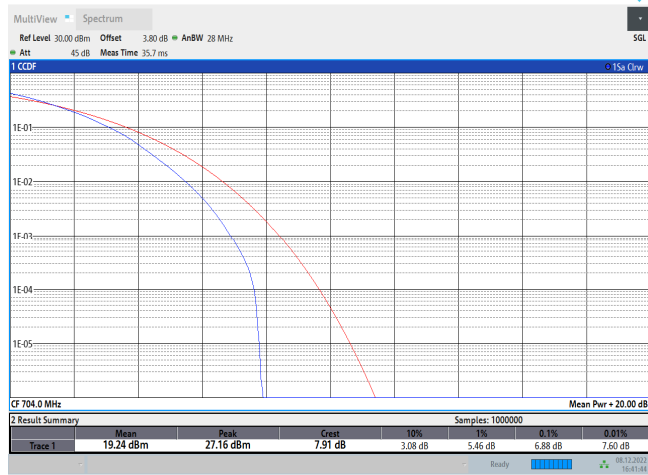


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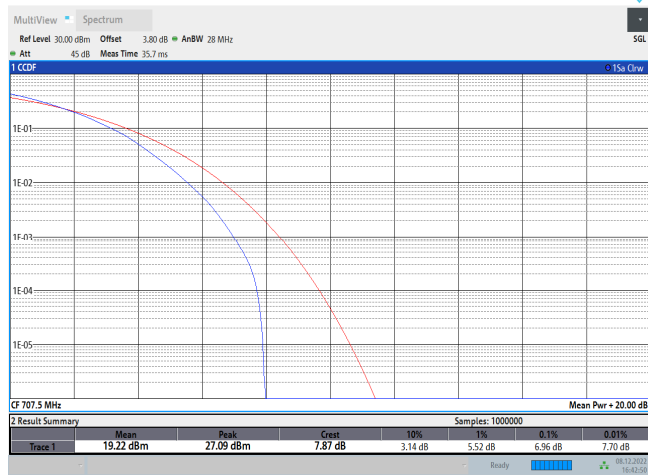
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Band12-10MHz-64QAM-23060-50RB#0



16:41:44 08.12.2022

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

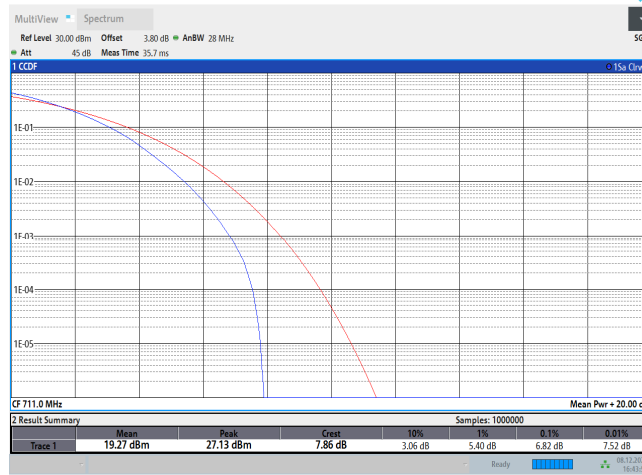


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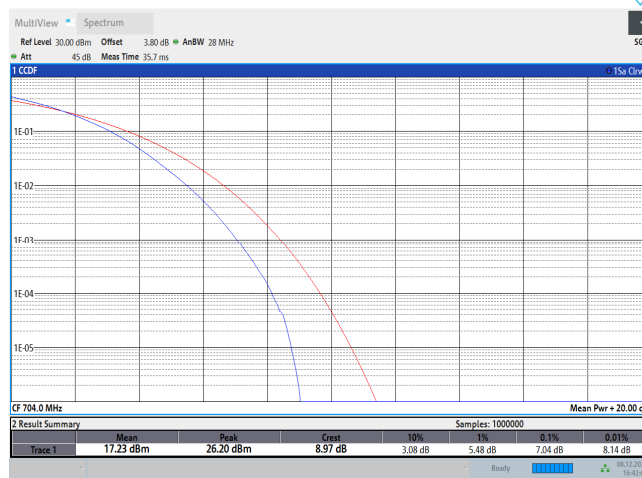
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Band12-10MHz-64QAM-23130-50RB#0



16:43:58 08.12.2022

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



16:42:00 08.12.2022

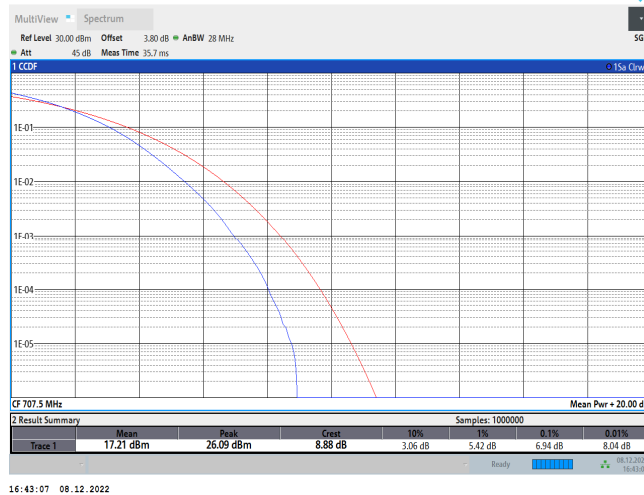


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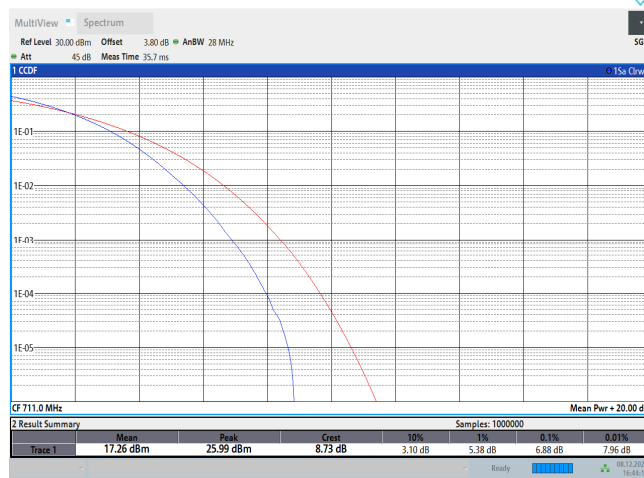
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Band12-10MHz-256QAM-23095-50RB#0



16:43:07 08.12.2022

Band12-10MHz-256QAM-23130-50RB#0



16:44:15 08.12.2022



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



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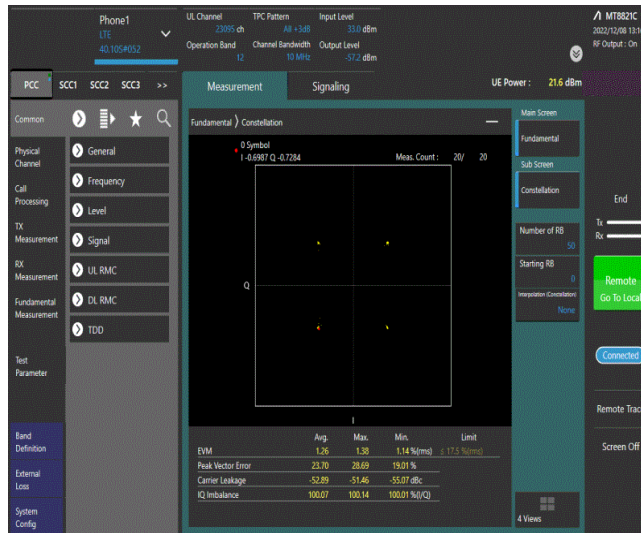
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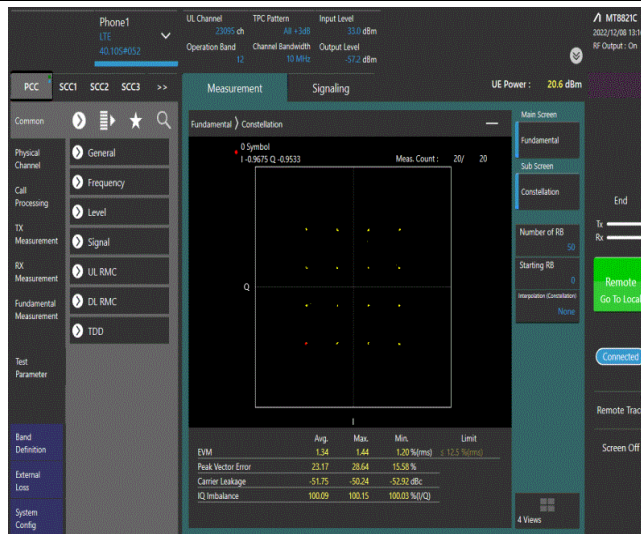
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Test Graphs

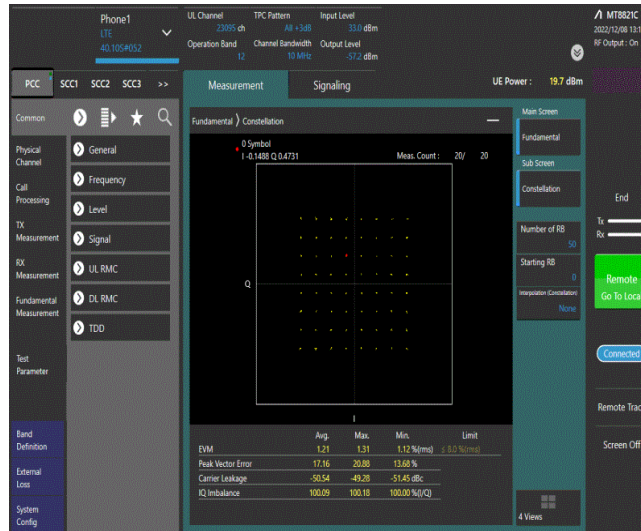
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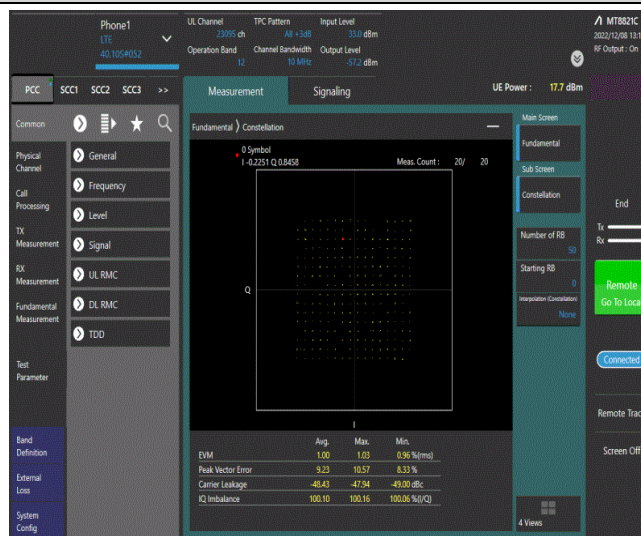
Band12-10MHz-16QAM-23095-50RB#0



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



Band12-10MHz-256QAM-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	1.104	1.39	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.102	1.37	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.105	1.38	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.107	1.38	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.105	1.41	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.108	1.37	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.107	1.38	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.104	1.39	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.106	1.38	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.105	1.38	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.109	1.38	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.108	1.39	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	3.07	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.693	3.08	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.698	3.07	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.694	3.07	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7	3.05	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	3.04	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.695	3.05	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.696	3.07	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.694	3.04	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.698	3.04	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.691	3.02	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.705	3.05	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.481	5.06	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.483	5.07	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.475	5.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.473	5.07	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.484	5.07	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.474	5.03	PASS



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Band12	5MHz	64QAM	23035	25RB#0	4.476	5.03	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.477	5.01	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.475	5.02	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.479	5.05	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.479	5.05	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.483	5.07	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.935	9.94	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.944	9.90	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.76	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.954	9.88	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.959	9.84	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.913	9.86	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.939	9.88	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.941	9.84	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.916	9.78	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.951	9.84	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.941	9.76	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.921	9.80	PASS



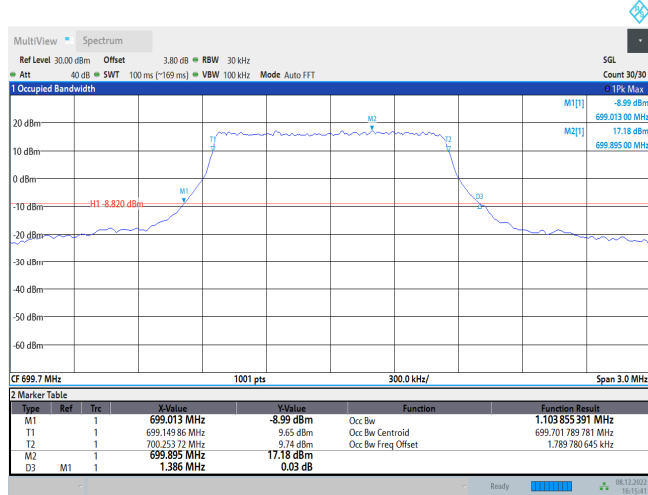
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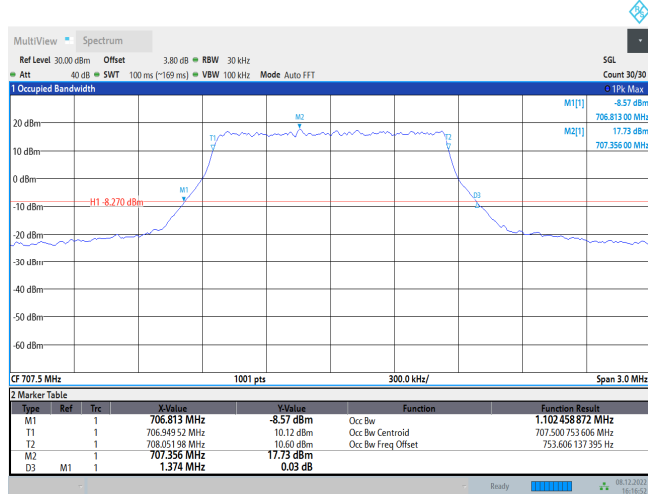
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Test Graphs

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



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

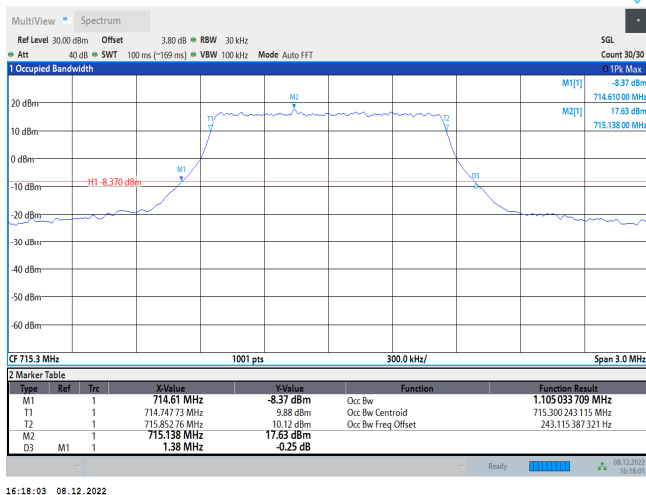


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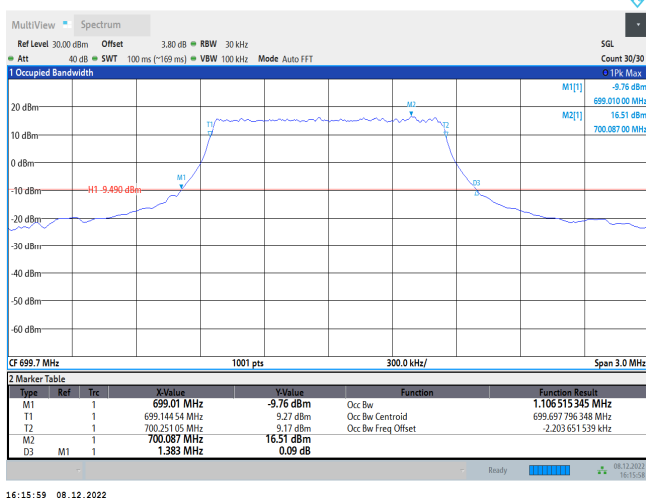
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Band12-1.4MHz-QPSK-23173-6RB#0



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

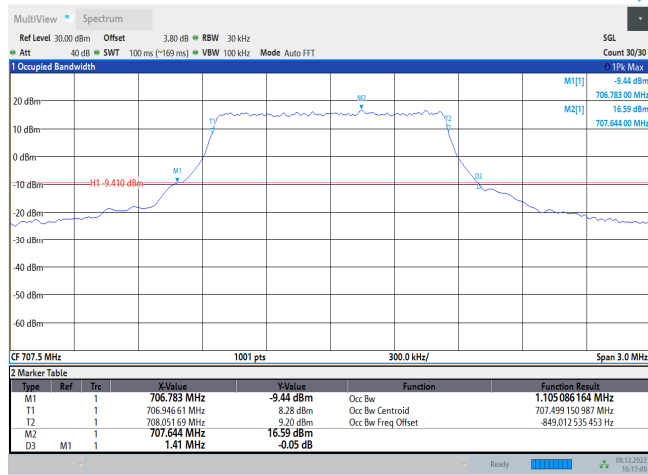


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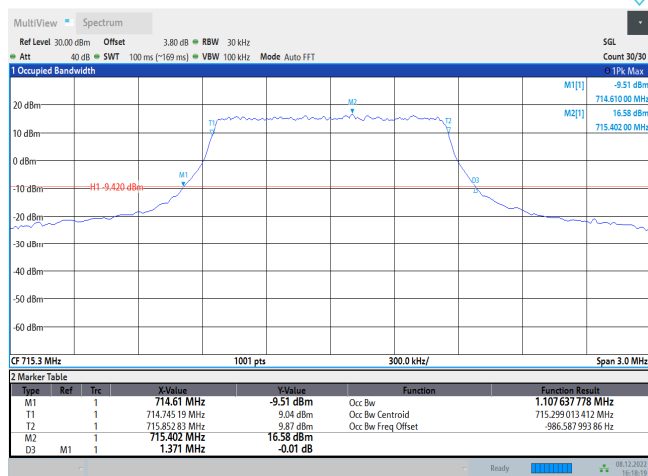
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Band12-1.4MHz-16QAM-23095-6RB#0



16:17:09 08.12.2022

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



16:18:20 08.12.2022



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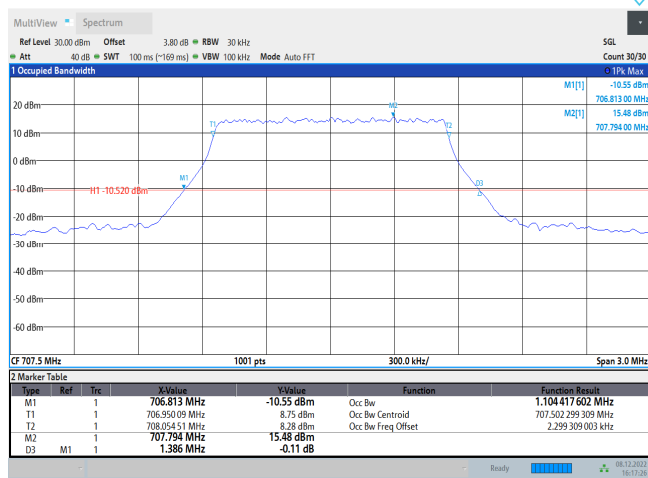
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Band12-1.4MHz-64QAM-23017-6RB#0



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

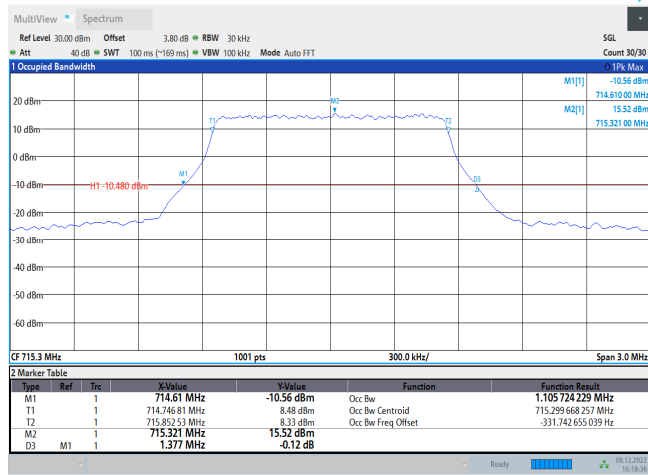


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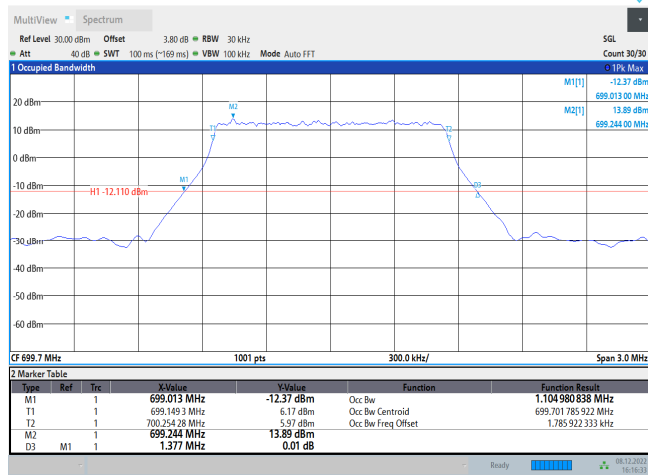
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Band12-1.4MHz-64QAM-23173-6RB#0



16:18:37 08.12.2022

Band12-1.4MHz-256QAM-23017-6RB#0



16:16:33 08.12.2022

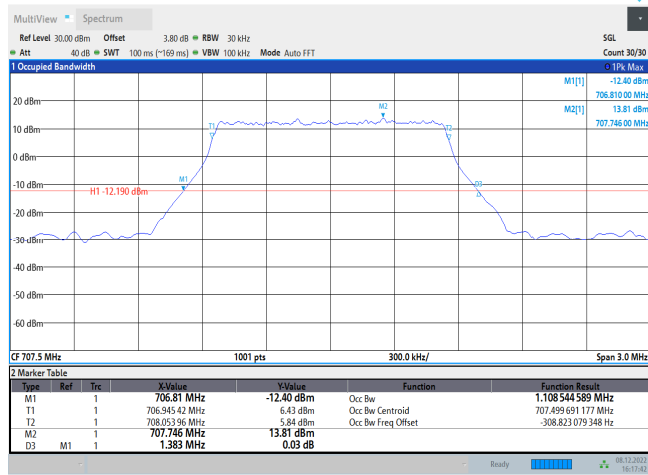


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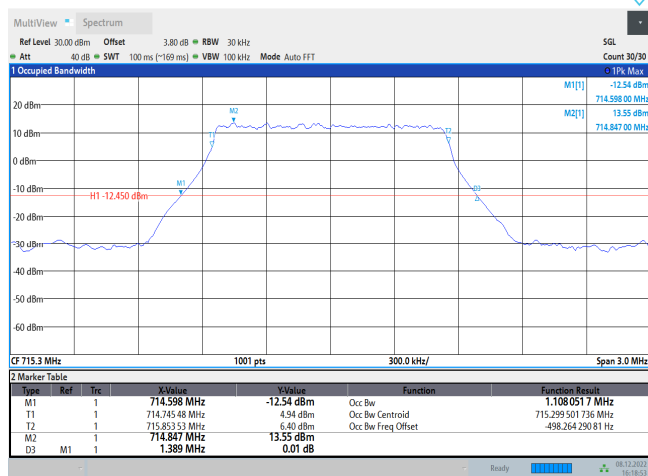
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Band12-1.4MHz-256QAM-23173-6RB#0

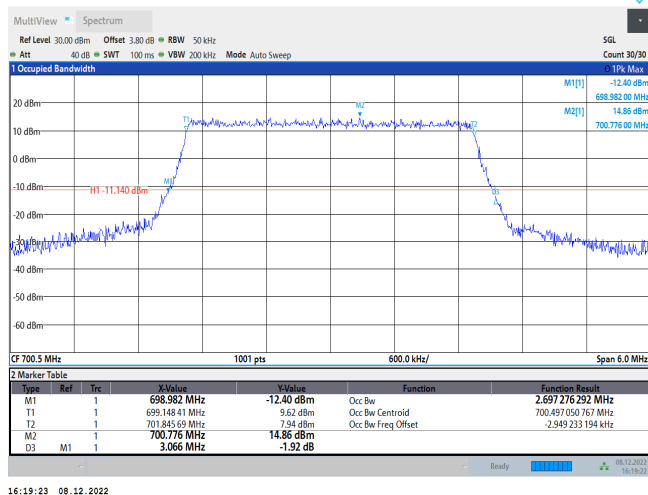


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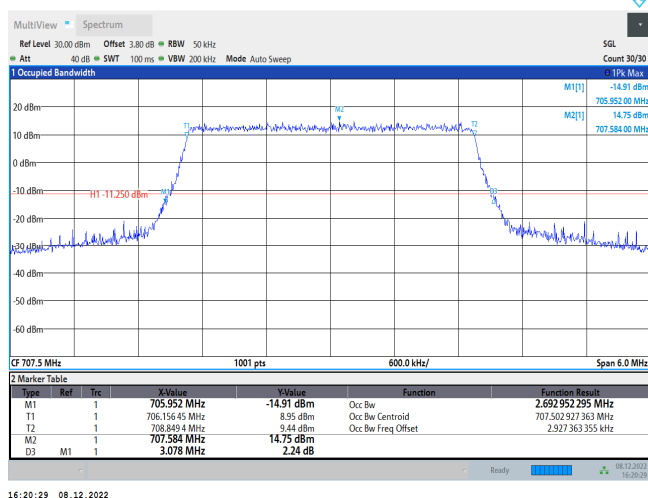


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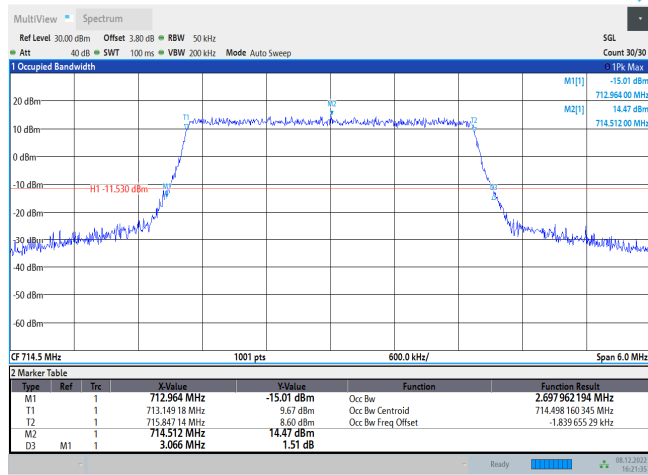


Band12-3MHz-QPSK-23095-15RB#0



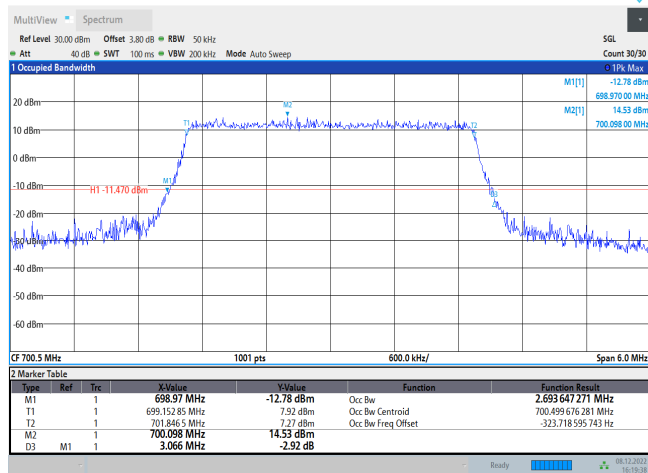
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Band12-3MHz-QPSK-23165-15RB#0



16:21:36 08.12.2022

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



16:19:39 08.12.2022

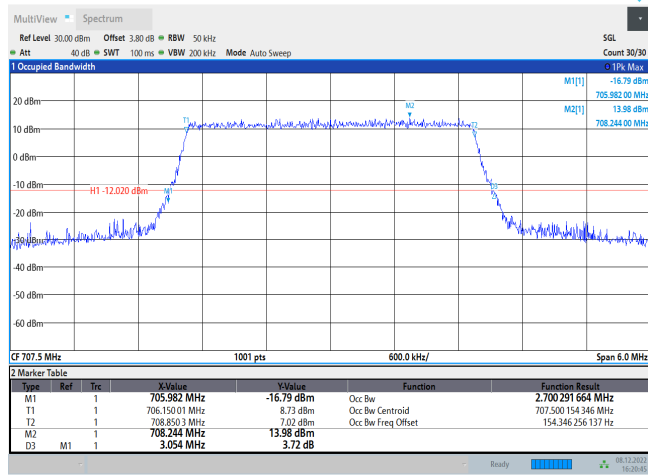


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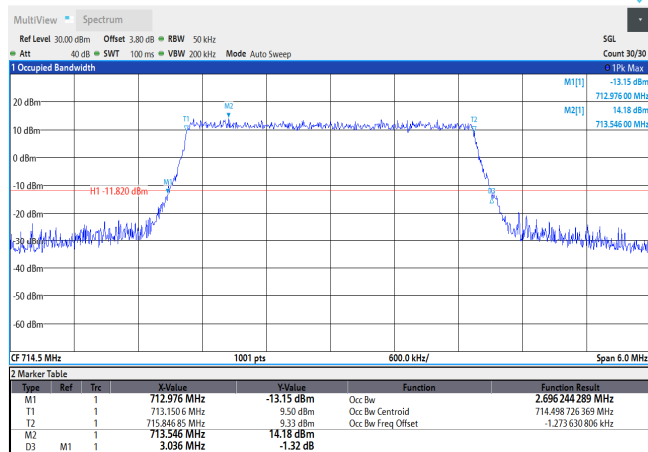
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16:20:45 08.12.2022

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



16:21:52 08.12.2022

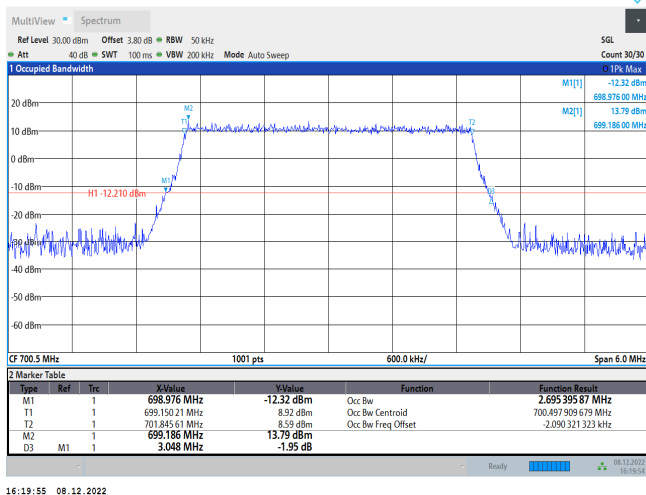


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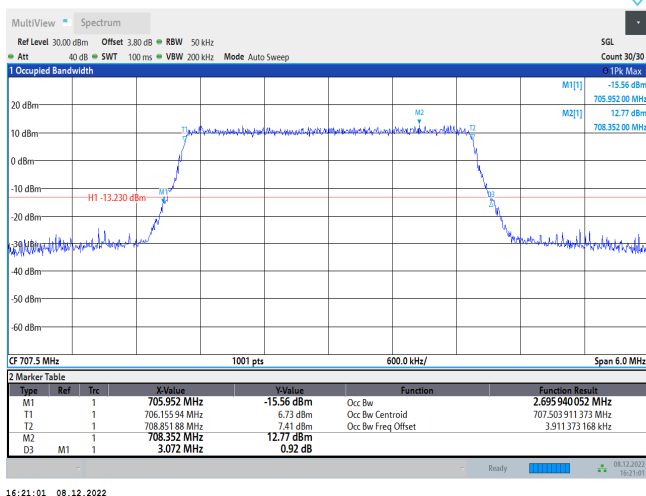
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Band12-3MHz-64QAM-23025-15RB#0



16:19:55 08.12.2022

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

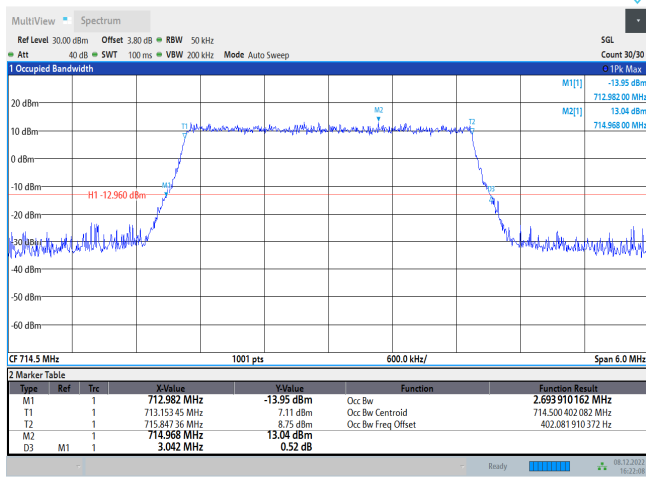


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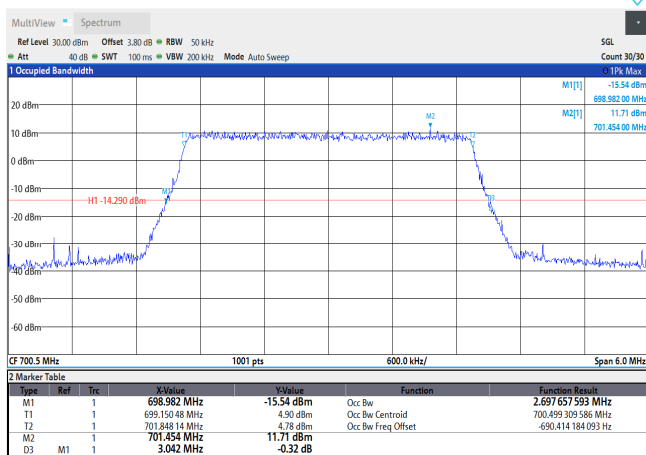
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Band12-3MHz-64QAM-23165-15RB#0



16:22:08 08.12.2022

Band12-3MHz-256QAM-23025-15RB#0

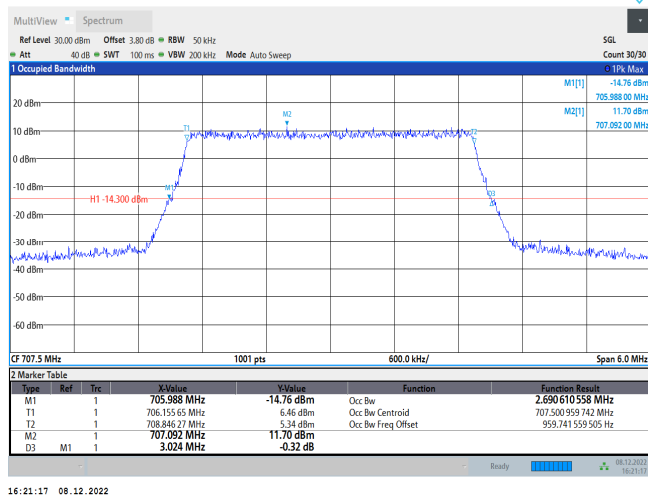


16:20:11 08.12.2022



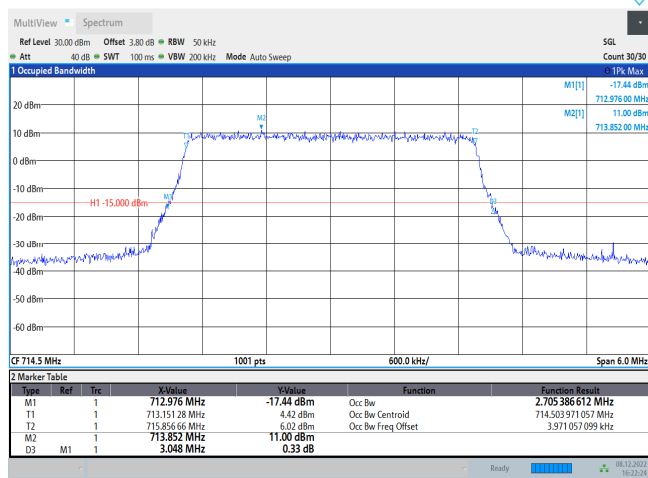
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Band12-3MHz-256QAM-23095-15RB#0



16:21:17 08.12.2022

Band12-3MHz-256QAM-23165-15RB#0

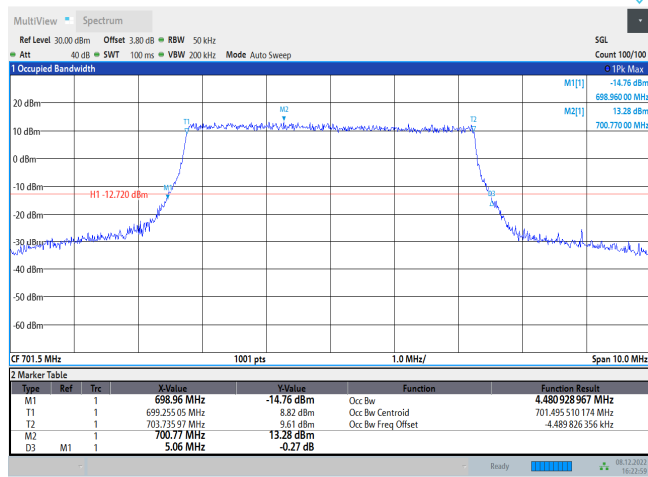


16:22:24 08.12.2022



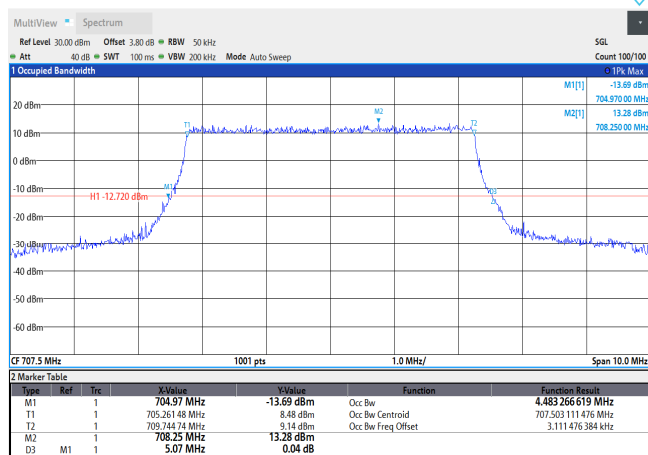
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Band12-5MHz-QPSK-23035-25RB#0



16:23:00 08.12.2022

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

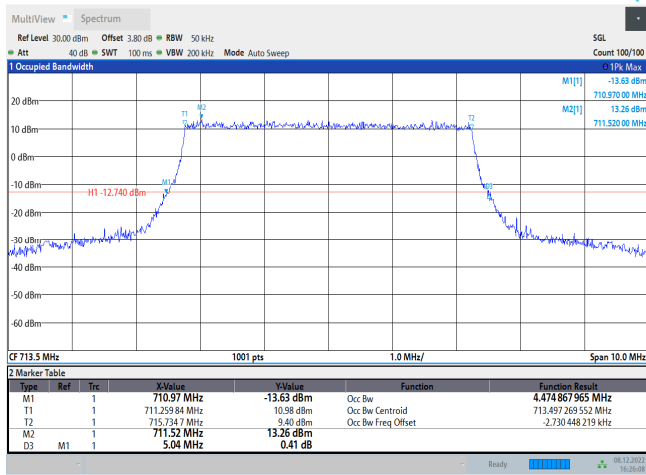


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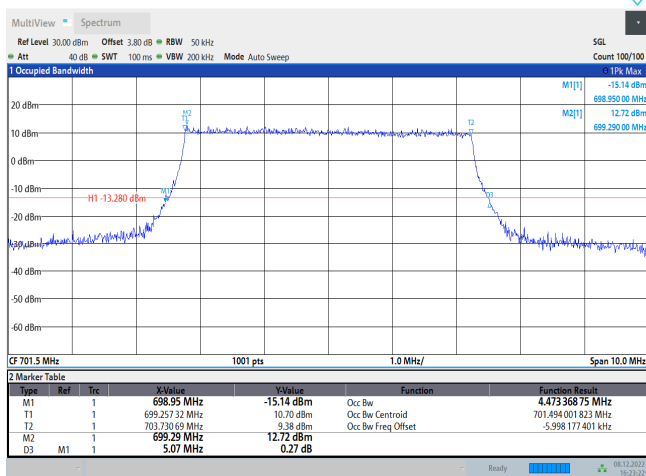
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Band12-5MHz-QPSK-23155-25RB#0



16:26:09 08.12.2022

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



16:23:23 08.12.2022

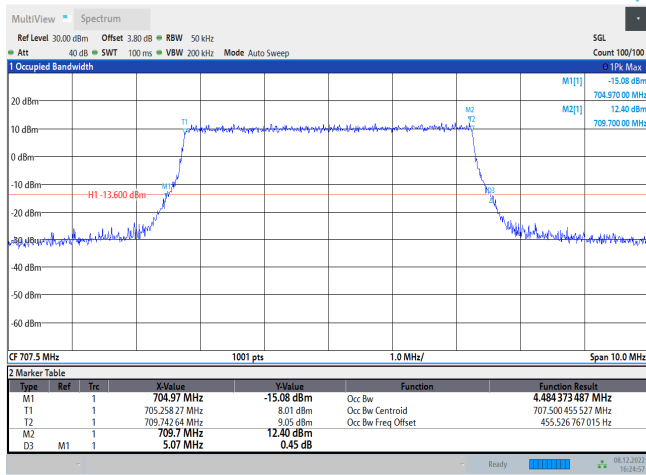


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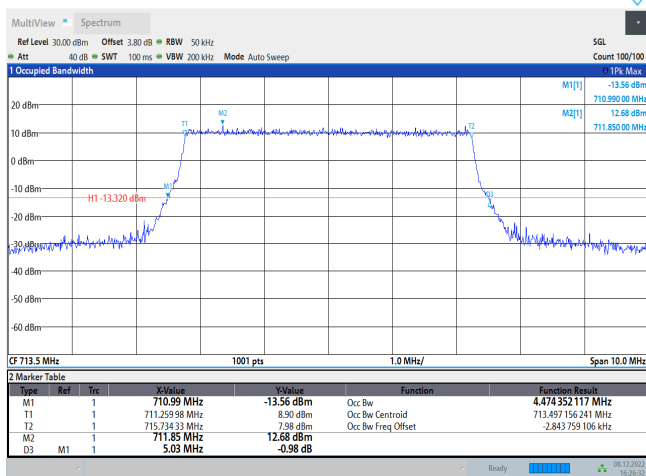
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Band12-5MHz-16QAM-23095-25RB#0



16:24:58 08.12.2022

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

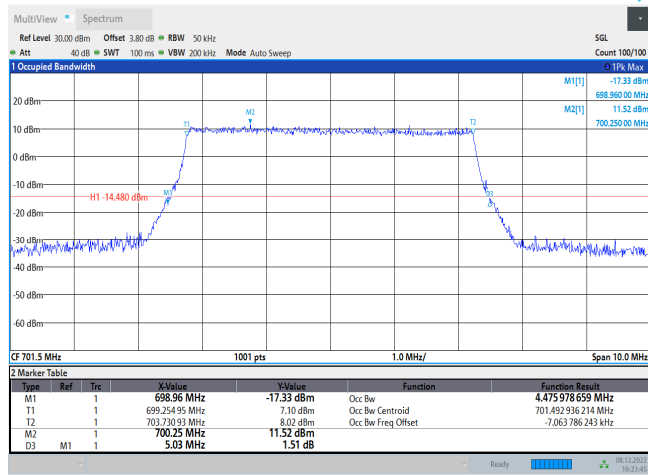


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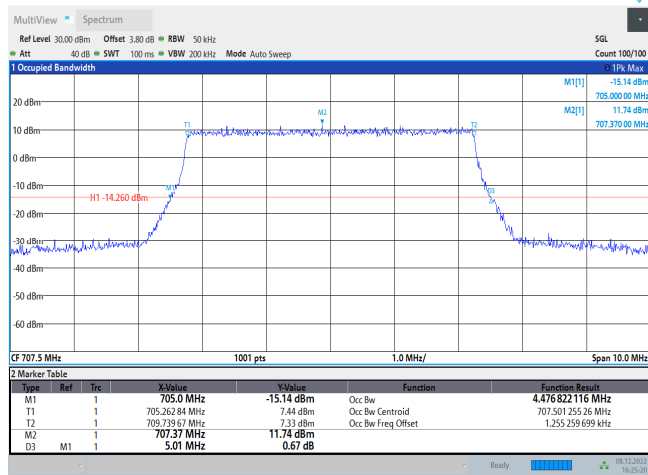
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Band12-5MHz-64QAM-23035-25RB#0



16:23:46 08.12.2022

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

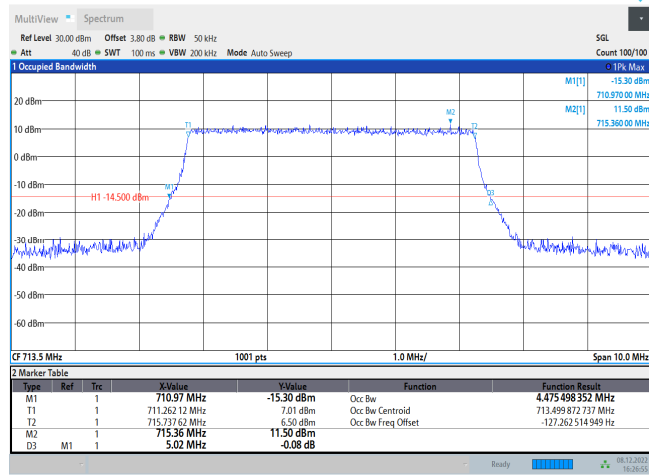


16:25:21 08.12.2022



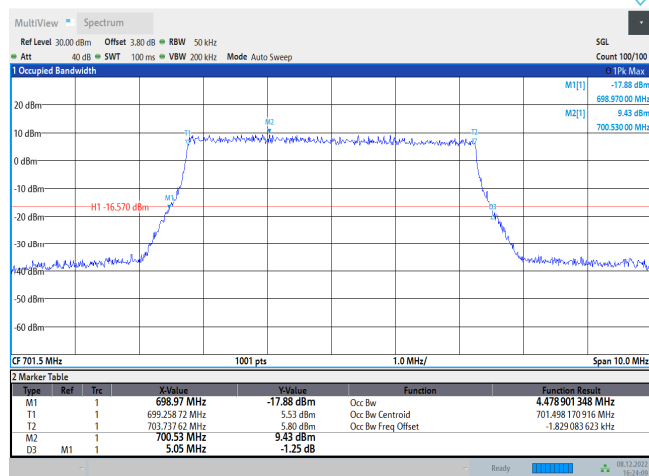
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Band12-5MHz-64QAM-23155-25RB#0



16:26:55 08.12.2022

Band12-5MHz-256QAM-23035-25RB#0



16:24:09 08.12.2022



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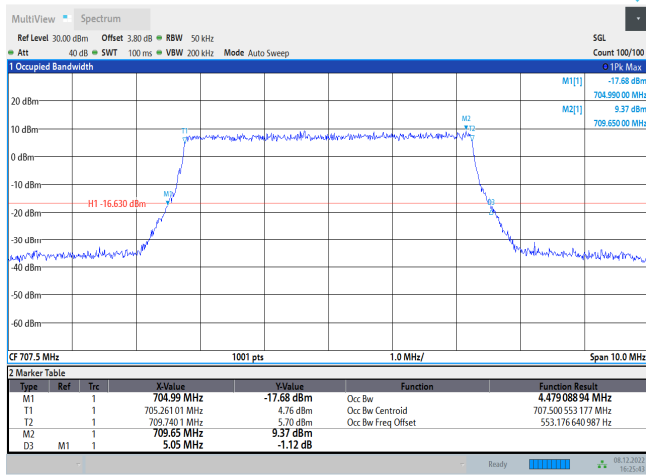
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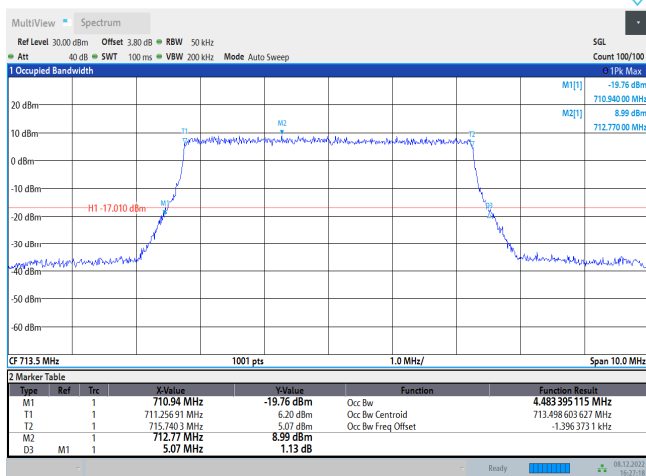
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Band12-5MHz-256QAM-23095-25RB#0



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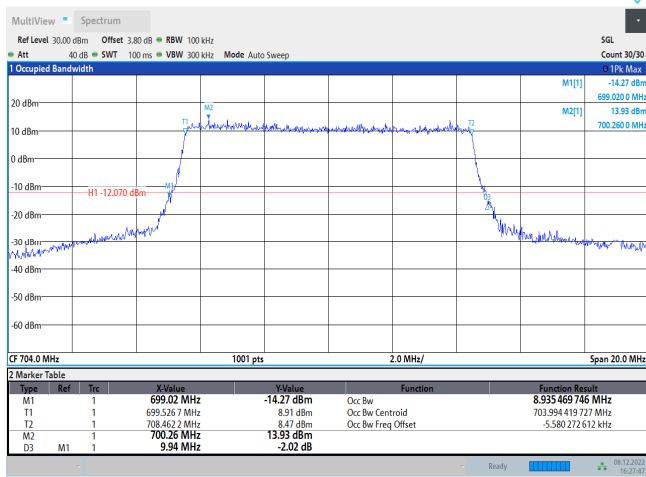


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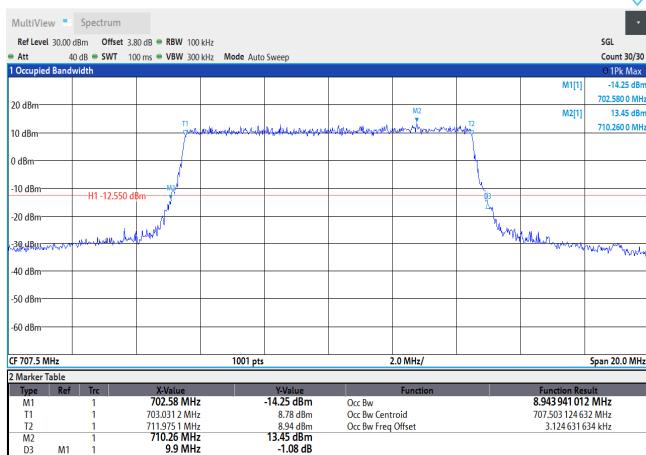
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Band12-10MHz-QPSK-23060-50RB#0



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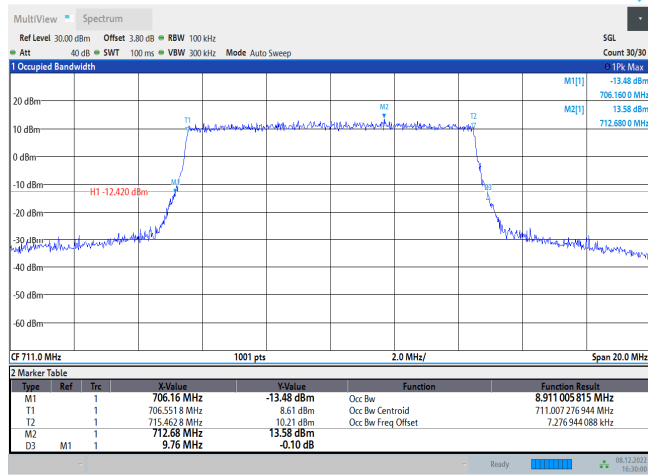


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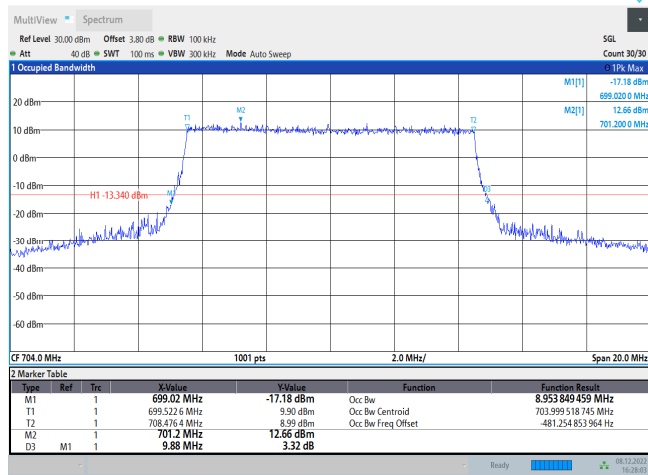
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Band12-10MHz-QPSK-23130-50RB#0



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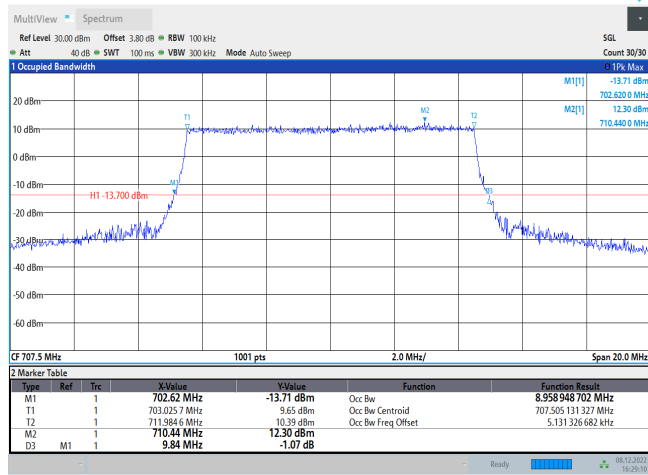


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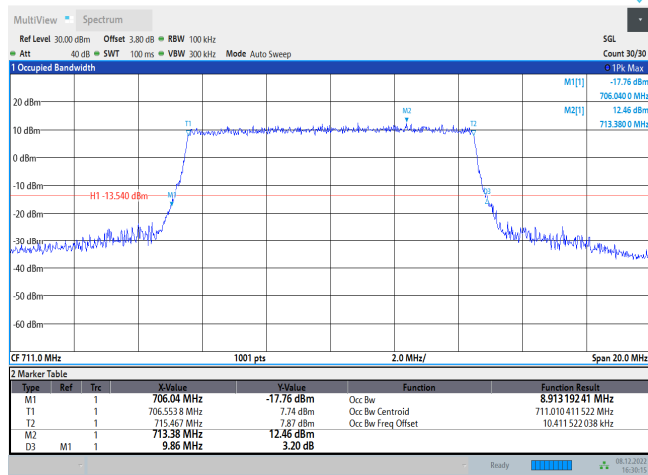
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Band12-10MHz-16QAM-23095-50RB#0



16:29:10 08.12.2022

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



16:30:17 08.12.2022



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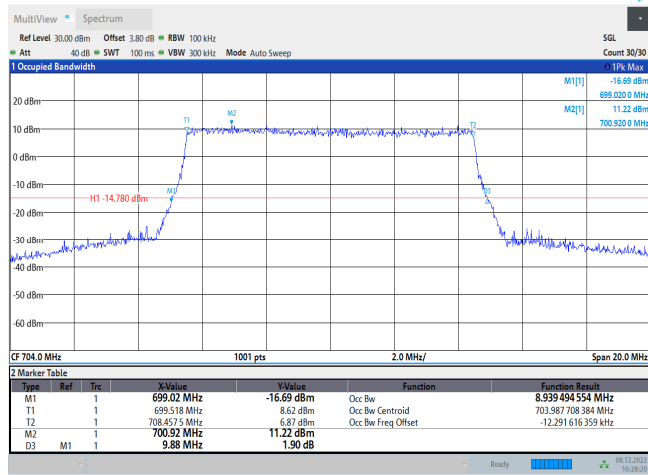
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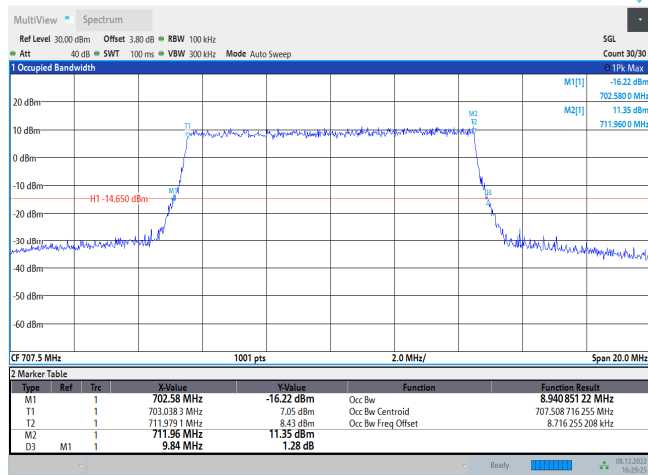
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Band12-10MHz-64QAM-23060-50RB#0



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

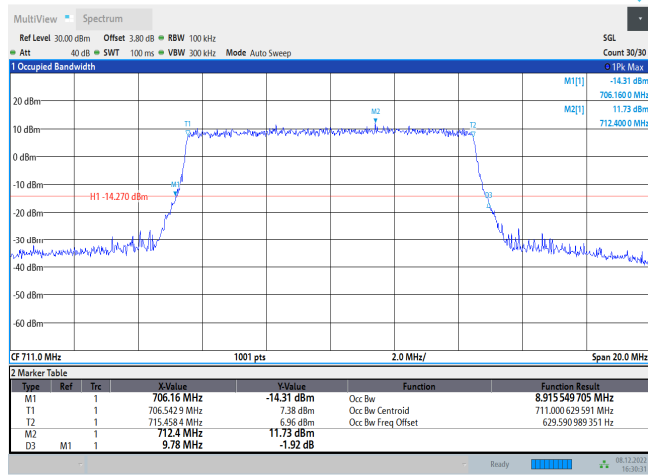


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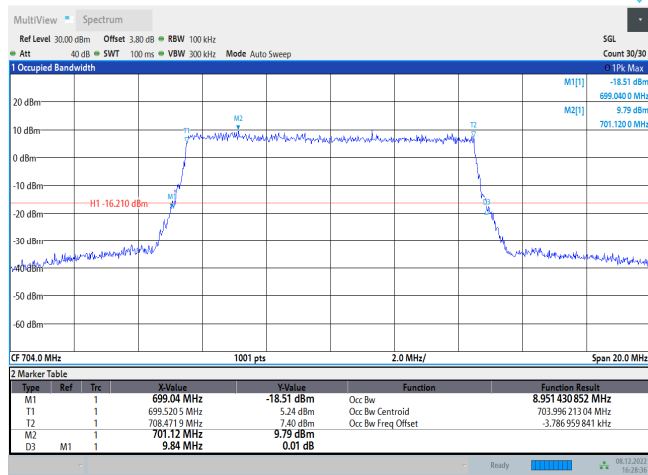
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Band12-10MHz-64QAM-23130-50RB#0



16:30:33 08.12.2022

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

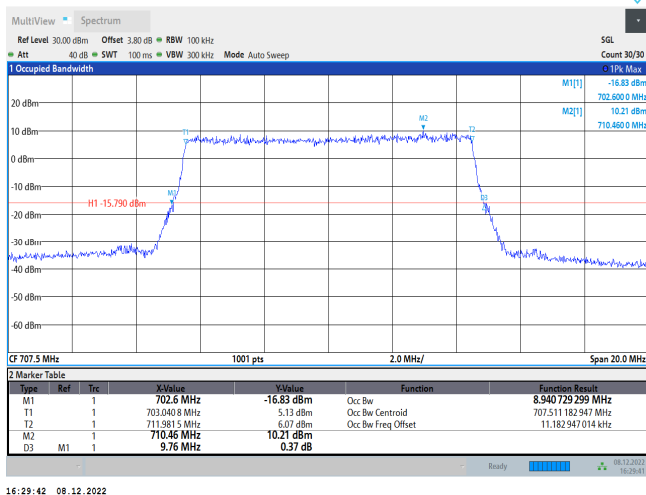


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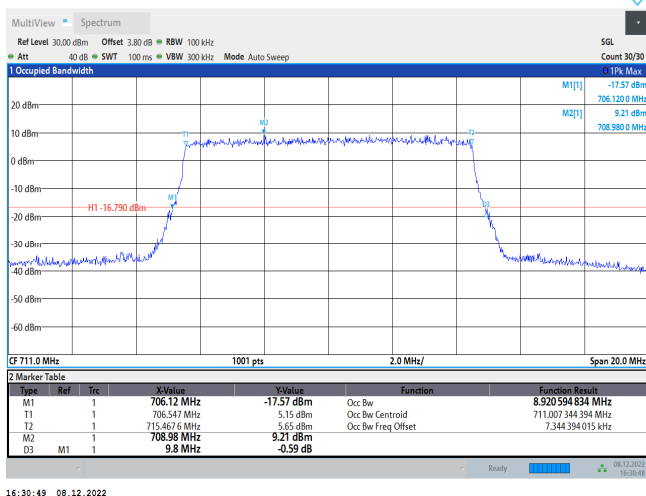


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Band12-10MHz-256QAM-23095-50RB#0



Band12-10MHz-256QAM-23130-50RB#0



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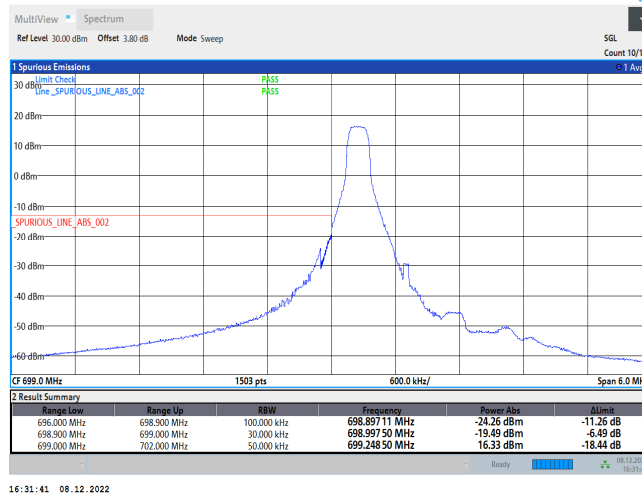
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Band Edge

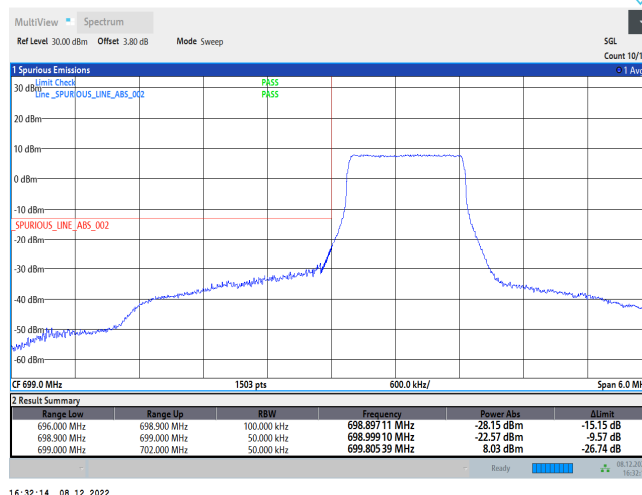
Test Graphs

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



16:31:41 08.12.2022

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



16:32:14 08.12.2022



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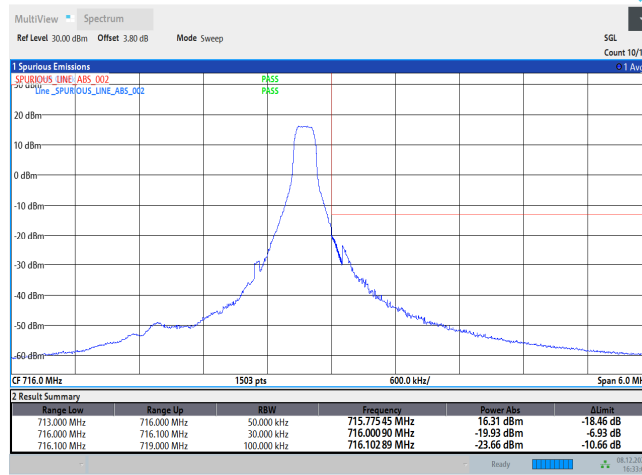
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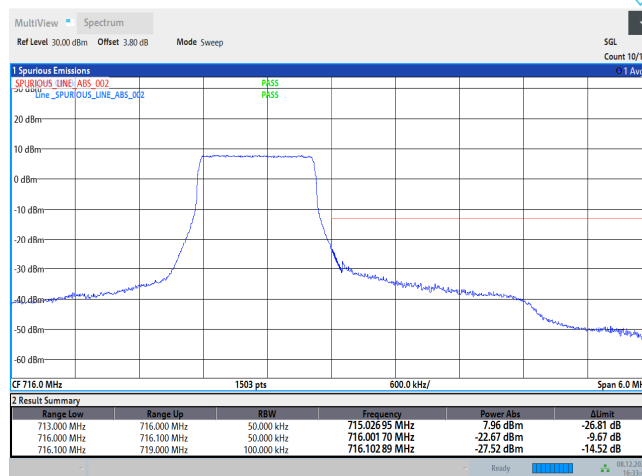
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Band12-1.4MHz-QPSK-23173-1RB#5



16:33:08 08.12.2022

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



16:33:40 08.12.2022

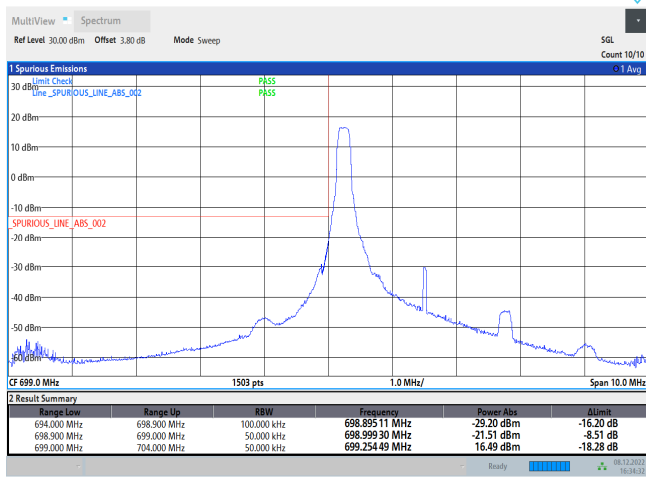


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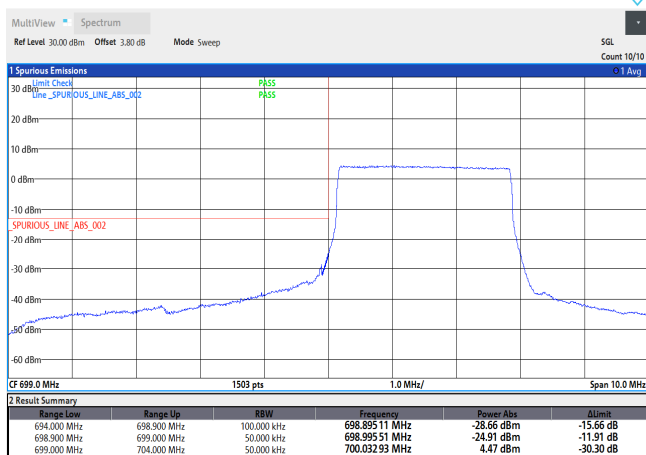
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Band12-3MHz-QPSK-23025-1RB#0



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



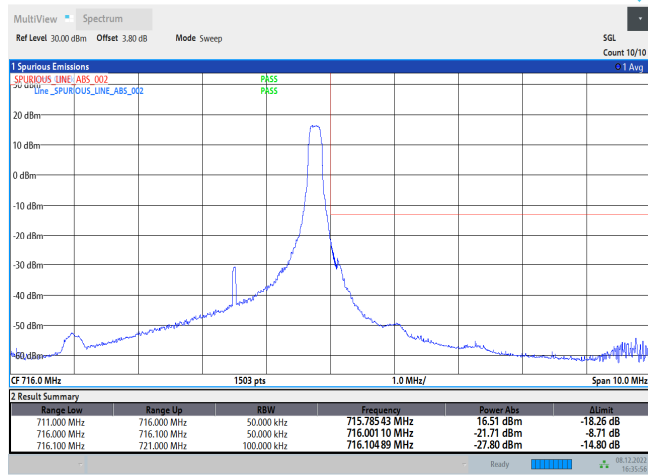
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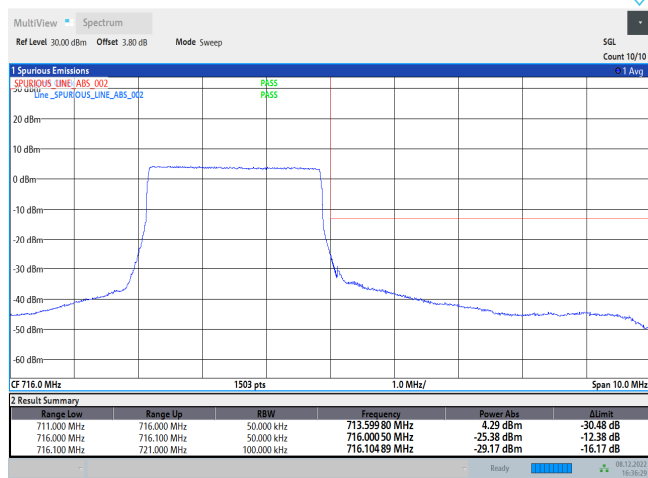
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Band12-3MHz-QPSK-23165-1RB#14



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

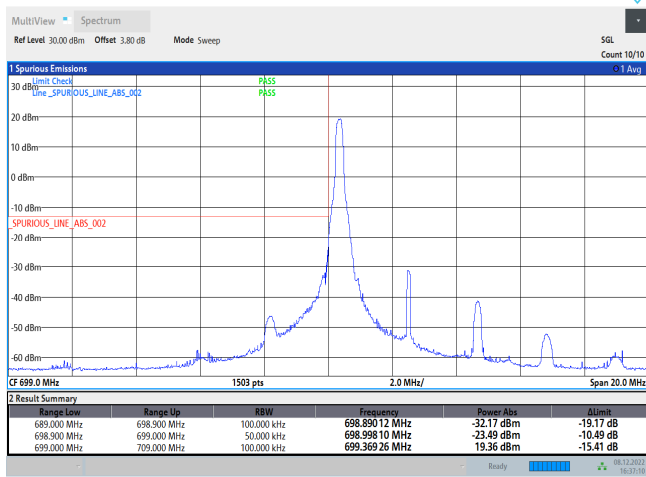


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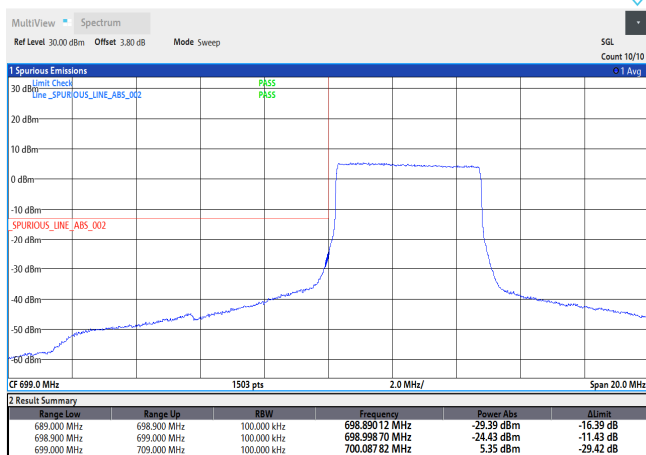
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Band12-5MHz-QPSK-23035-1RB#0



16:37:10 08.12.2022

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

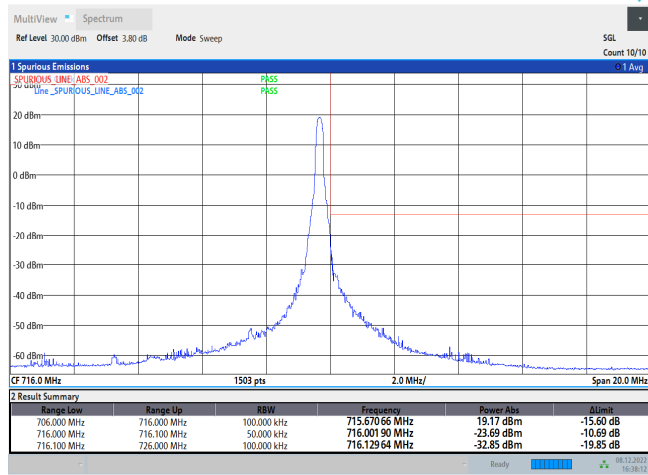


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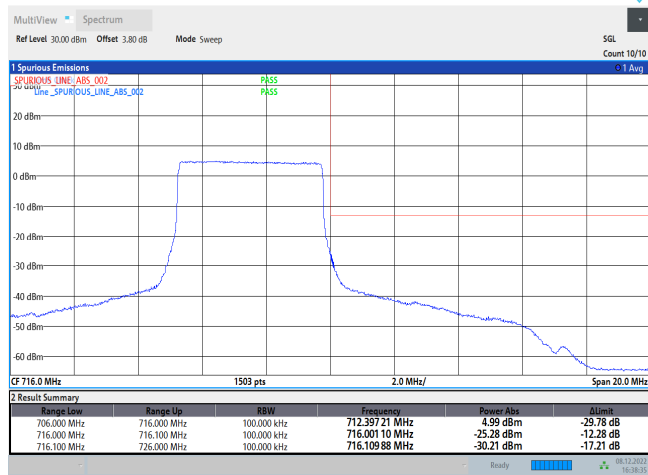


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Band12-5MHz-QPSK-23155-1RB#24



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

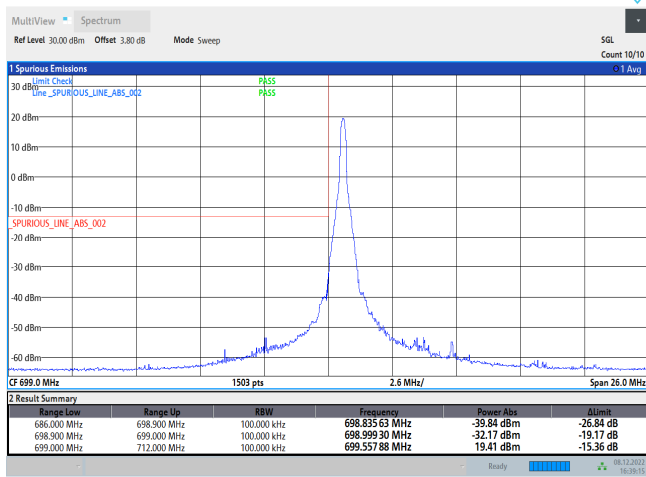


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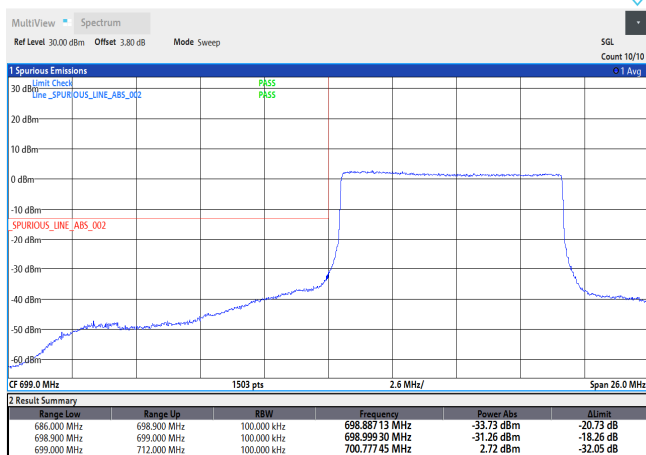
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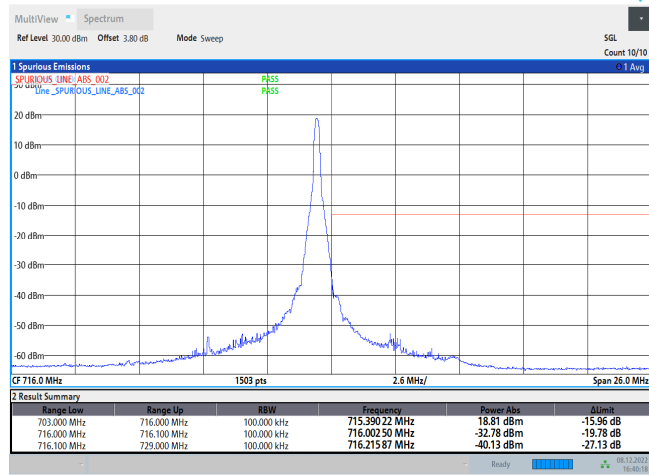


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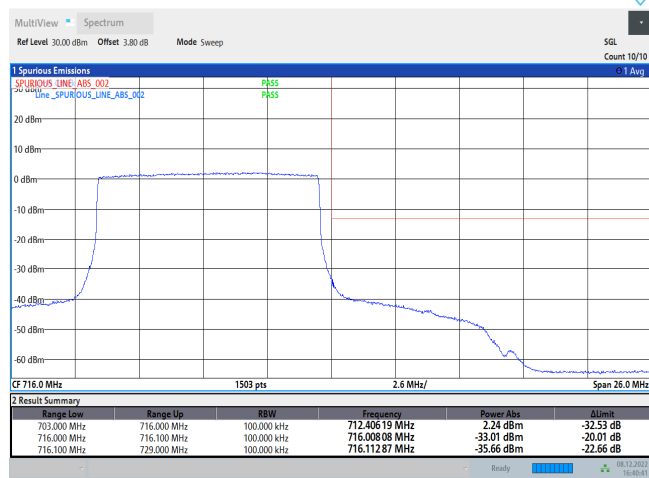


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Band12-10MHz-QPSK-23130-1RB#49



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



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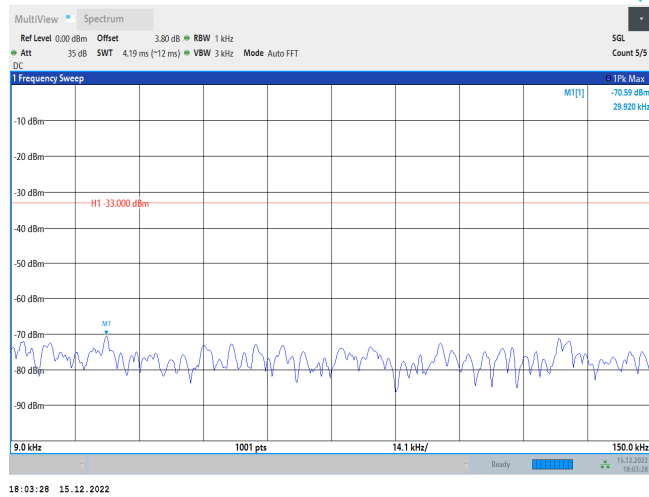
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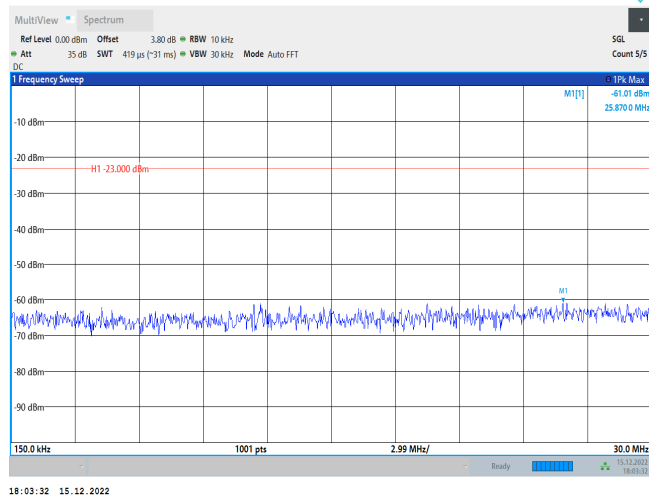
Conducted Spurious Emission

Test Graphs

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



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



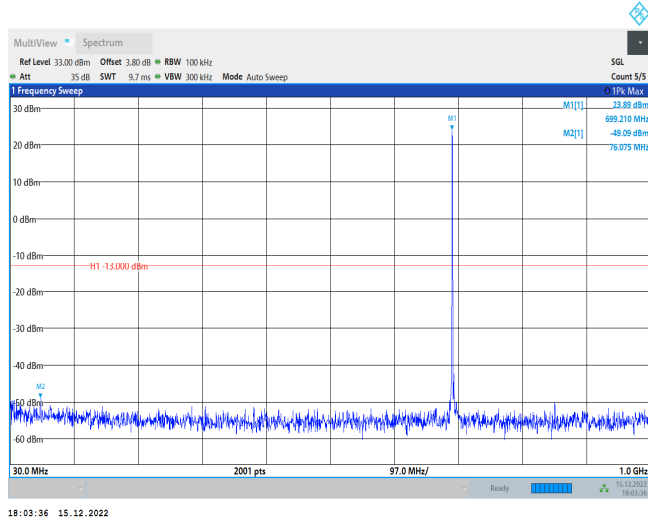
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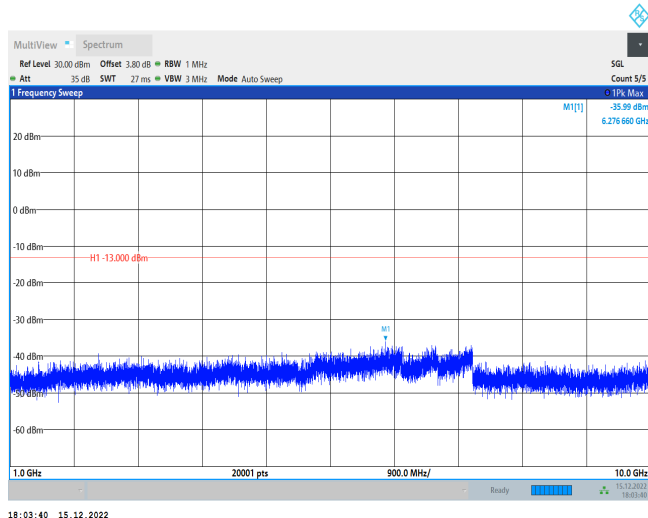
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



18:03:36 15.12.2022

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

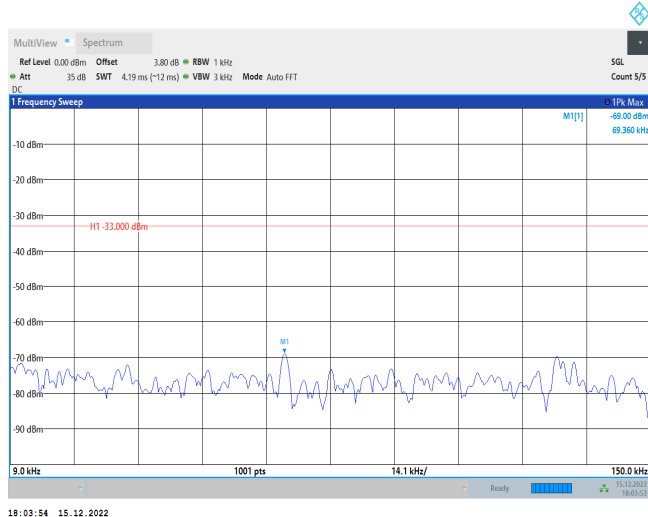


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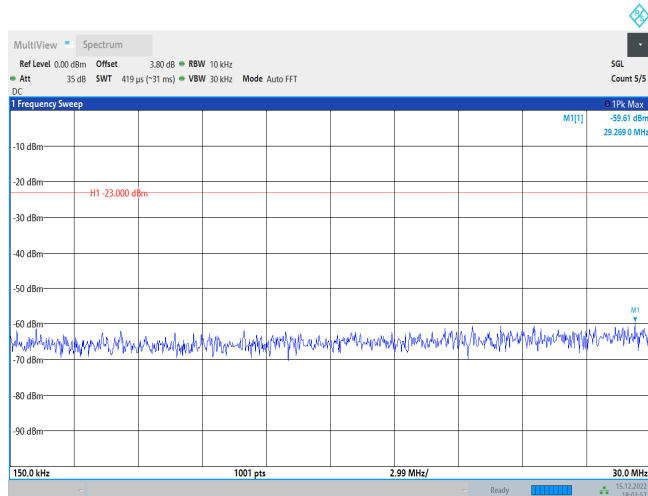
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



18:03:54 15.12.2022

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



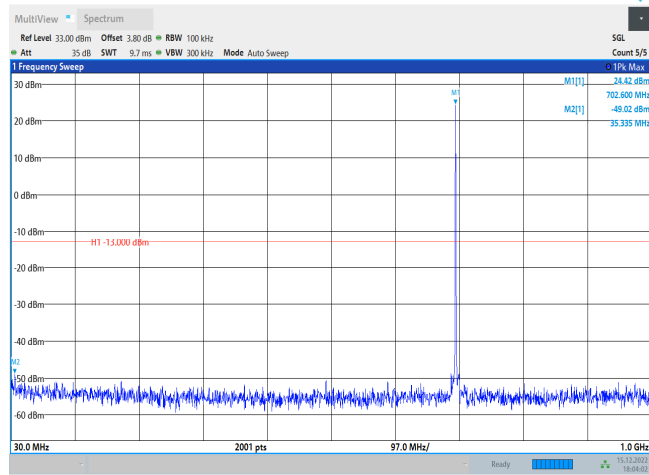
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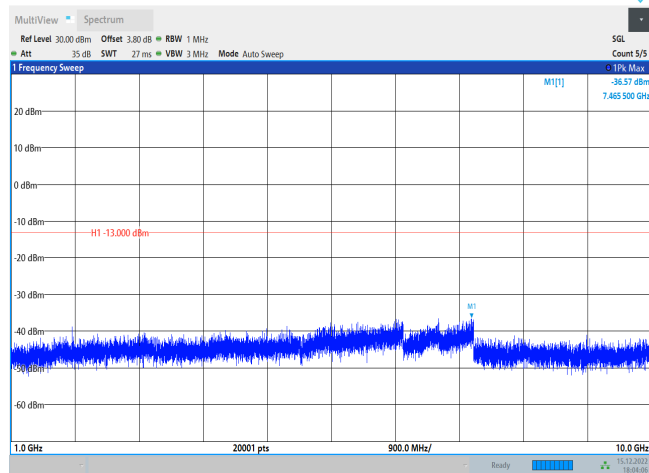
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



18:04:02 15.12.2022

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



18:04:06 15.12.2022



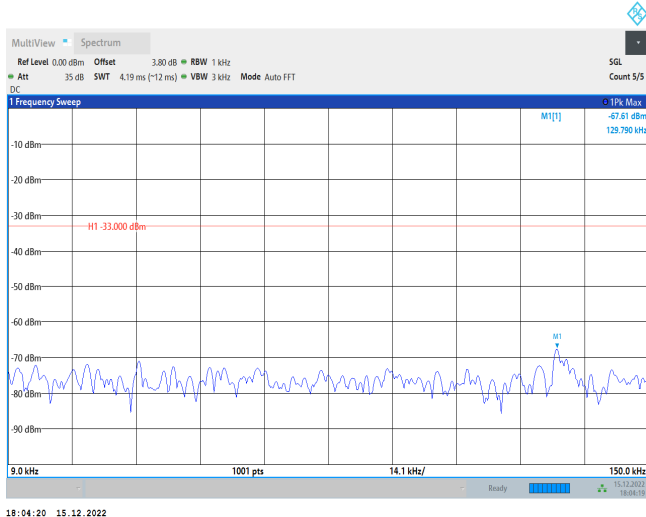
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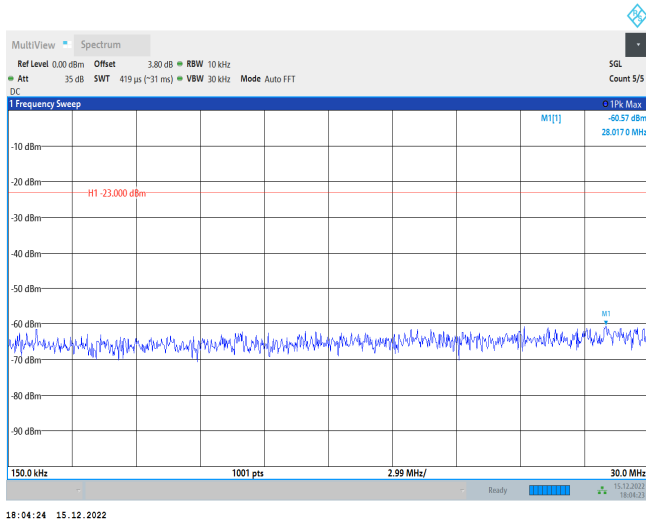
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz

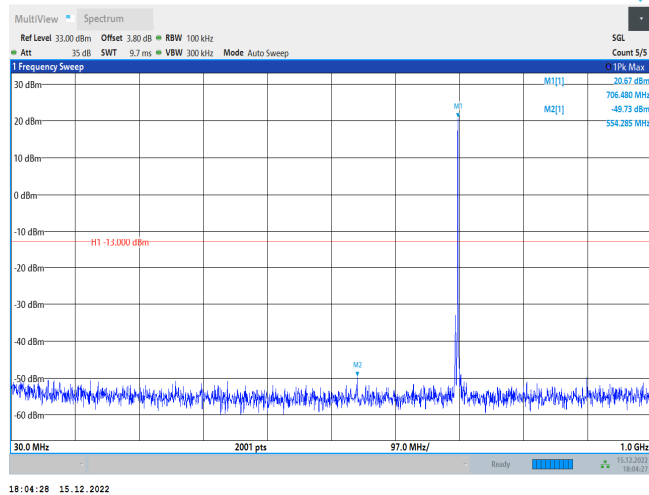


Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



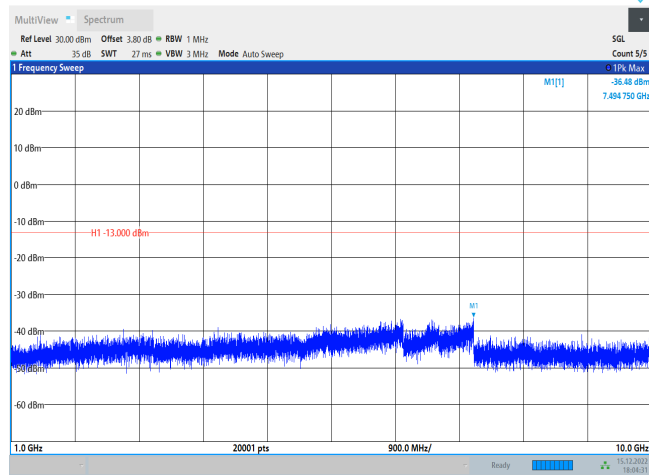
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



18:04:28 15.12.2022

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



18:04:32 15.12.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 12 ANT 2_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	47.72	-48.73	25.40	-70.87	-13.00	57.87	265	360	Horizontal
2	2098.77	45.32	-47.88	27.10	-70.72	-13.00	57.72	185	160	Horizontal
3	2798.36	41.76	-46.69	28.92	-71.27	-13.00	58.27	166	113	Horizontal
4	3497.95	41.23	-46.05	29.40	-70.68	-13.00	57.68	196	223	Horizontal
5	4197.54	41.46	-45.12	30.92	-68.00	-13.00	55.00	230	360	Horizontal
6	4897.13	40.49	-45.14	32.35	-67.55	-13.00	54.55	302	49	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	54.40	-48.73	25.40	-64.19	-13.00	51.19	233	139	Vertical
2	2098.77	56.14	-47.88	27.10	-59.90	-13.00	46.90	204	123	Vertical
3	2798.36	41.70	-46.69	28.92	-71.33	-13.00	58.33	240	1	Vertical
4	3497.95	40.96	-46.05	29.40	-70.95	-13.00	57.95	188	312	Vertical
5	4197.54	41.11	-45.12	30.92	-68.35	-13.00	55.35	204	328	Vertical
6	4897.13	40.27	-45.14	32.35	-67.77	-13.00	54.77	196	218	Vertical



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Test Band = LTE Band 12 ANT 2_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	50.45	-48.72	25.41	-68.12	-13.00	55.12	215	3	Horizontal
2	2109.27	48.20	-47.87	27.12	-67.81	-13.00	54.81	221	241	Horizontal
3	2812.36	41.30	-46.69	28.96	-71.69	-13.00	58.69	186	230	Horizontal
4	3515.45	41.24	-46.03	29.44	-70.62	-13.00	57.62	288	69	Horizontal
5	4218.54	40.81	-45.11	30.95	-68.61	-13.00	55.61	305	28	Horizontal
6	4921.63	40.13	-45.12	32.41	-67.84	-13.00	54.84	155	105	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	50.45	-48.72	25.41	-68.12	-13.00	55.12	236	138	Horizontal
2	2109.27	48.20	-47.87	27.12	-67.81	-13.00	54.81	165	198	Horizontal
3	2812.36	41.93	-46.69	28.96	-71.06	-13.00	58.06	255	234	Horizontal
4	3515.45	41.24	-46.03	29.44	-70.62	-13.00	57.62	215	310	Horizontal
5	4218.54	40.81	-45.11	30.95	-68.61	-13.00	55.61	185	308	Horizontal
6	4921.63	40.13	-45.12	32.41	-67.84	-13.00	54.84	306	230	Horizontal



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Test Band = LTE Band 12 ANT 2_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	53.89	-48.70	25.41	-64.65	-13.00	51.65	255	303	Horizontal
2	2119.77	50.60	-47.85	27.14	-65.37	-13.00	52.37	188	142	Horizontal
3	2826.36	41.38	-46.71	29.01	-71.58	-13.00	58.58	213	94	Horizontal
4	3532.95	41.84	-46.01	29.48	-69.95	-13.00	56.95	266	16	Horizontal
5	4239.54	40.85	-45.11	30.98	-68.54	-13.00	55.54	305	159	Horizontal
6	4946.13	39.91	-45.09	32.47	-67.96	-13.00	54.96	174	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2119.5556	59.90	-47.85	27.14	-56.07	-13.00	43.07	165	88	Vertical
2	1413.18	55.37	-48.70	25.41	-63.17	-13.00	50.17	215	136	Vertical
3	2826.36	41.90	-46.71	29.01	-71.06	-13.00	58.06	244	329	Vertical
4	3532.95	41.89	-46.01	29.48	-69.90	-13.00	56.90	188	249	Vertical
5	4239.54	40.80	-45.11	30.98	-68.59	-13.00	55.59	306	168	Vertical
6	4946.13	39.94	-45.09	32.47	-67.93	-13.00	54.93	223	249	Vertical



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Test Band = UL CA 4A-12A_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2139	55.11	-24.89	27.18	-37.87	-13.00	24.87	124	246	Horizontal
2	3472.5	50.35	-45.76	29.41	-61.26	-13.00	48.26	189	49	Horizontal
3	1399.18	35.71	-25.81	25.40	-59.96	-13.00	46.96	236	46	Horizontal
4	2798.36	37.40	-23.69	28.91	-52.64	-13.00	39.64	278	66	Horizontal
5	5133.27	40.66	-44.24	32.60	-66.24	-13.00	53.24	351	265	Horizontal
6	6844.36	39.12	-42.50	35.89	-62.75	-13.00	49.75	197	49	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2139	44.36	-24.89	27.18	-48.62	-13.00	35.62	136	320	Vertical
2	3472.5	48.10	-45.76	29.41	-63.51	-13.00	50.51	247	96	Vertical
3	1399.18	35.64	-25.81	25.40	-60.03	-13.00	47.03	332	1	Vertical
4	2798.36	37.84	-23.69	28.91	-52.20	-13.00	39.20	152	0	Vertical
5	5133.27	39.96	-44.24	32.60	-66.94	-13.00	53.94	254	113	Vertical
6	6844.36	39.54	-42.50	35.89	-62.33	-13.00	49.33	226	82	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 = UL CA 4A-12A_TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	46.57	-45.76	29.41	-65.04	-13.00	52.04	269	130	Horizontal
2	1406.18	35.67	-25.79	25.41	-59.97	-13.00	46.97	206	162	Horizontal
3	2109.27	36.23	-24.91	27.12	-56.82	-13.00	43.82	244	194	Horizontal
4	2812.36	37.45	-23.65	28.96	-52.50	-13.00	39.50	188	288	Horizontal
5	5170.77	40.94	-44.19	32.60	-65.91	-13.00	52.91	152	344	Horizontal
6	6894.36	39.74	-42.44	35.99	-61.97	-13.00	48.97	302	96	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	49.96	-45.76	29.41	-61.65	-13.00	48.65	204	65	Vertical
2	1406.18	35.66	-25.79	25.41	-59.98	-13.00	46.98	169	204	Vertical
3	2109.27	36.10	-24.91	27.12	-56.95	-13.00	43.95	235	3	Vertical
4	2812.36	37.42	-23.65	28.96	-52.53	-13.00	39.53	288	88	Vertical
5	5170.77	40.61	-44.19	32.60	-66.24	-13.00	53.24	337	3	Vertical
6	6894.36	39.50	-42.44	35.99	-62.21	-13.00	49.21	171	248	Vertical



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Test Band = UL CA 4A-12A_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	35.69	-25.77	25.41	-59.93	-13.00	46.93	146	357	Horizontal
2	2119.77	36.39	-24.90	27.14	-56.63	-13.00	43.63	197	214	Horizontal
3	2826.36	37.16	-23.61	29.01	-52.70	-13.00	39.70	233	10	Horizontal
4	3472.18	47.62	-45.76	29.41	-63.99	-13.00	50.99	268	344	Horizontal
5	5208.27	40.97	-44.14	32.60	-65.83	-13.00	52.83	341	210	Horizontal
6	6944.36	39.18	-42.50	36.09	-62.49	-13.00	49.49	277	358	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	35.91	-25.77	25.41	-59.71	-13.00	46.71	142	77	Vertical
2	2119.77	36.23	-24.90	27.14	-56.79	-13.00	43.79	255	308	Vertical
3	2826.36	37.21	-23.61	29.01	-52.65	-13.00	39.65	168	25	Vertical
4	3472.18	49.81	-45.76	29.41	-61.80	-13.00	48.80	321	63	Vertical
5	5208.27	45.89	-44.14	32.60	-60.91	-13.00	47.91	264	130	Vertical
6	6944.36	39.40	-42.50	36.09	-62.27	-13.00	49.27	218	346	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	1.00	0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.30	0.000424	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-40	-0.20	-0.000244	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	60	-0.50	-0.000611	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	75	1.20	0.001465	PASS

---End of Attachment---



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