



Appendix B

E-UTRA Band 12



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.23	16.9	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.28	16.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.40	17.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.37	17.04	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.40	17.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.35	17.02	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.33	16	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.49	17.16	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.53	17.2	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.44	17.11	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.46	17.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.72	17.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.69	17.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.59	16.26	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.38	17.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.39	17.06	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.38	17.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.42	17.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.38	17.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.44	17.11	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.44	16.11	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.20	15.87	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	20.93	15.6	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.26	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.32	15.99	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.36	16.03	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.35	16.02	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.27	14.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.42	16.09	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.20	15.87	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.54	16.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.07	15.74	34.77	PASS



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Band12	1.4MHz	16QAM	23095	3RB#1	21.41	16.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.26	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.44	15.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.11	15.78	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.01	15.68	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.58	16.25	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.49	16.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.26	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.34	16.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.13	14.8	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.20	16.87	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.29	16.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.28	16.95	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.44	16.11	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.49	16.16	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.49	16.16	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.42	16.09	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.35	17.02	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.50	17.17	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.23	16.9	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.52	16.19	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.55	16.22	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.58	16.25	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.50	16.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.13	16.8	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.27	16.94	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.04	16.71	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.38	16.05	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.41	16.08	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.33	16	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.43	16.1	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.42	16.09	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.10	15.77	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	20.64	15.31	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.28	14.95	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.64	15.31	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.54	15.21	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.12	14.79	34.77	PASS



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Band12	3MHz	16QAM	23095	1RB#0	21.14	15.81	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.30	15.97	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.33	16	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.45	15.12	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.30	14.97	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.19	14.86	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.33	15	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.51	16.18	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.35	16.02	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	20.82	15.49	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.34	15.01	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.56	15.23	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.22	14.89	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.29	14.96	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.05	16.72	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.40	17.07	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.21	16.88	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.37	16.04	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.55	16.22	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.42	16.09	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.45	16.12	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.17	16.84	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.44	17.11	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.28	16.95	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.51	16.18	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.50	16.17	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.47	16.14	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.48	16.15	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.18	16.85	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.03	16.7	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.12	16.79	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.46	16.13	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.36	16.03	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.37	16.04	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.37	16.04	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	20.57	15.24	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.53	16.2	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.38	16.05	34.77	PASS



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Band12	5MHz	16QAM	23035	12RB#0	20.49	15.16	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.62	15.29	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.41	15.08	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.49	15.16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.18	15.85	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.62	16.29	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.10	15.77	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.43	15.1	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.38	15.05	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.42	15.09	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.50	15.17	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	20.89	15.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	20.80	15.47	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.86	15.53	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.18	14.85	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.24	14.91	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.06	14.73	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.11	14.78	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.04	16.71	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.34	17.01	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.34	17.01	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.47	16.14	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.54	16.21	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.45	16.12	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.48	16.15	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.10	16.77	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.56	17.23	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.20	16.87	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.54	16.21	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.60	16.27	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.61	16.28	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.63	16.3	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.36	17.03	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.21	16.88	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.03	16.7	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.61	16.28	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.48	16.15	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.42	16.09	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	21.63	16.3	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.29	15.96	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.75	16.42	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.11	15.78	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.39	15.06	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.54	15.21	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.37	15.04	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.52	15.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.11	15.78	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.88	16.55	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	20.97	15.64	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.48	15.15	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.85	15.52	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.79	15.46	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.63	15.3	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	20.85	15.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.00	16.67	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.11	15.78	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.60	15.27	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.75	15.42	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.41	15.08	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.49	15.16	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

The conducted Power is measured by Base Station Simulator



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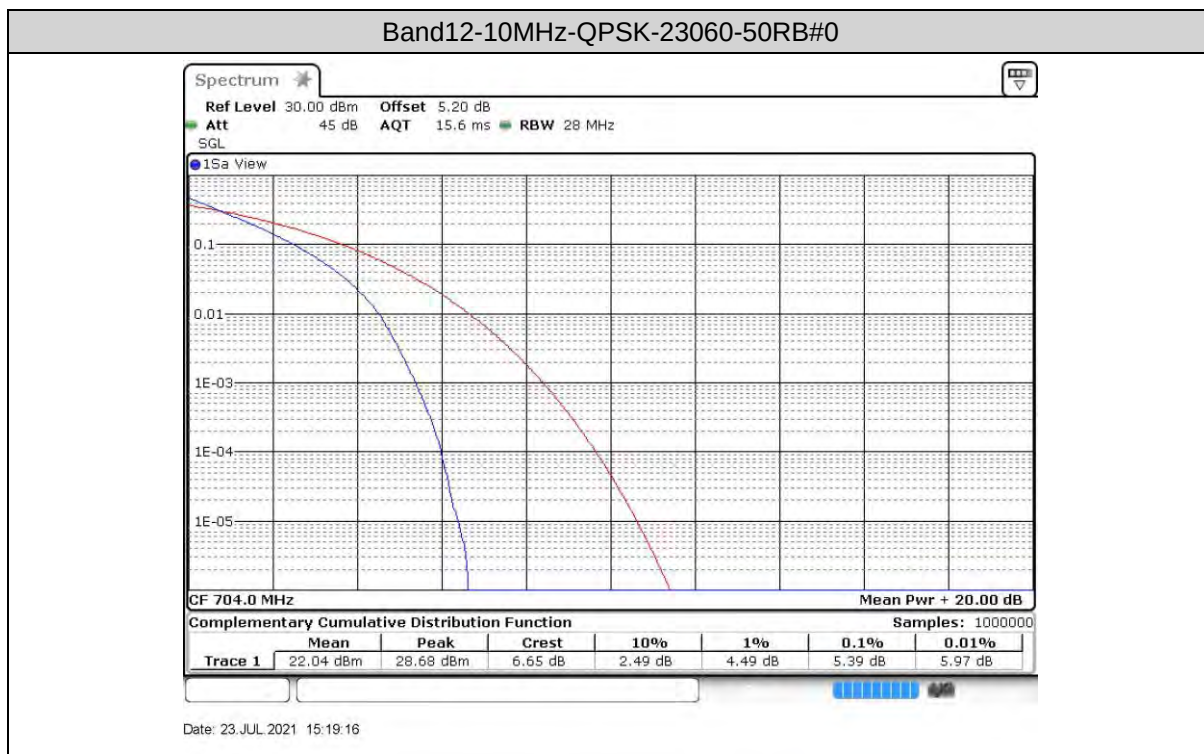


2. Peak-to-Average Ratio (CCDF)

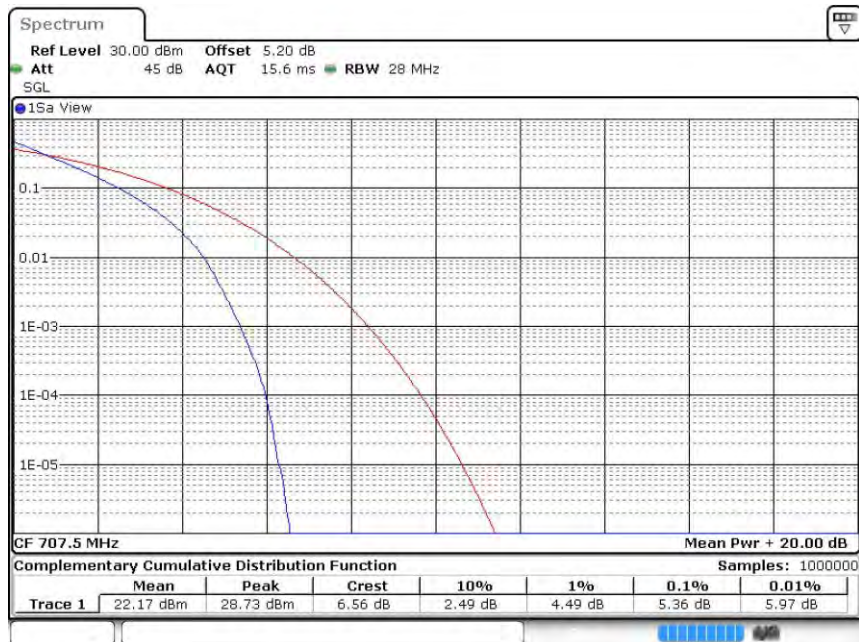
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.39	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.36	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.14	13	PASS

2.2. Test Plots

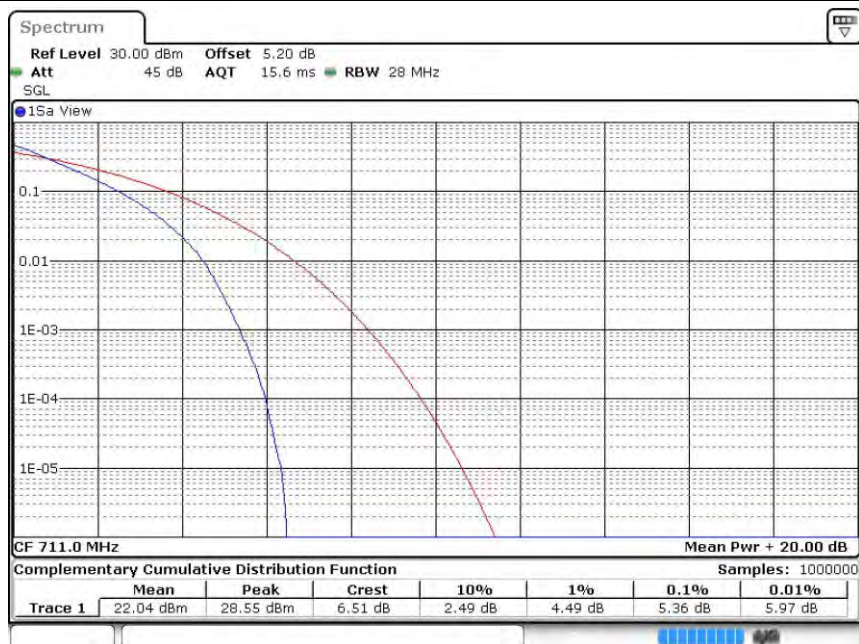


Band12-10MHz-QPSK-23095-50RB#0



Date: 23.JUL.2021 15:19:48

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



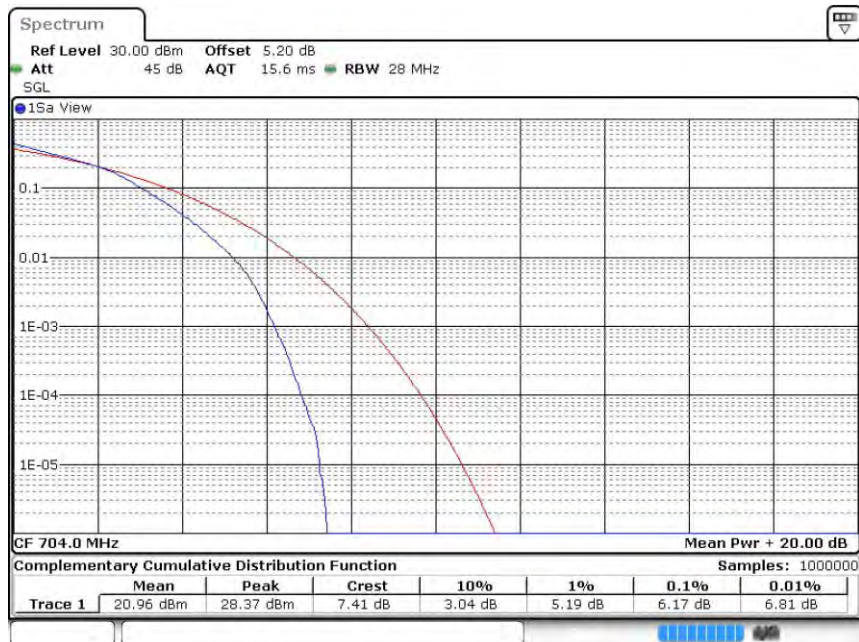
Date: 23.JUL.2021 15:20:21



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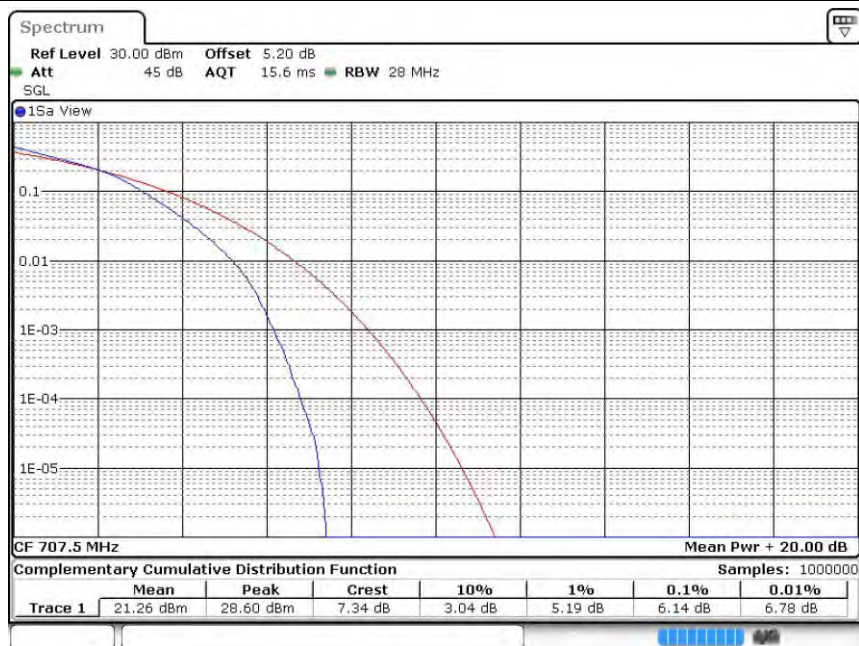
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Band12-10MHz-16QAM-23060-50RB#0



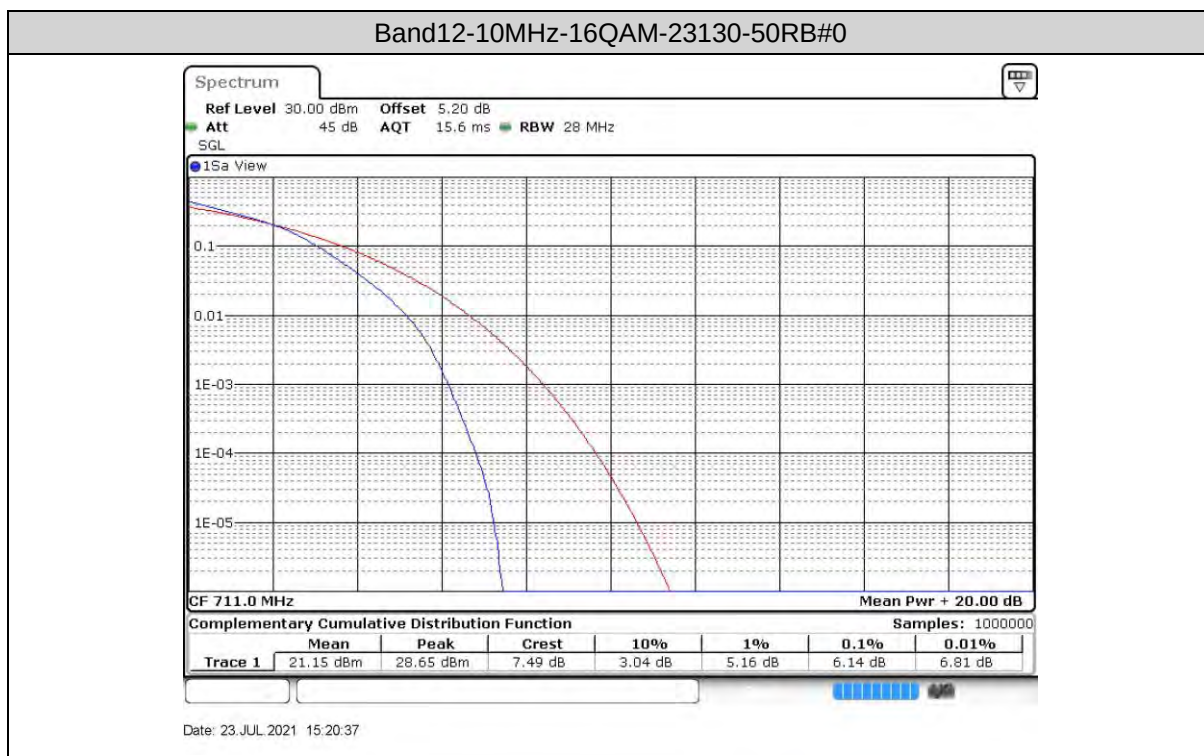
Date: 23.JUL.2021 15:19:32

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



Date: 23.JUL.2021 15:20:04





Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.

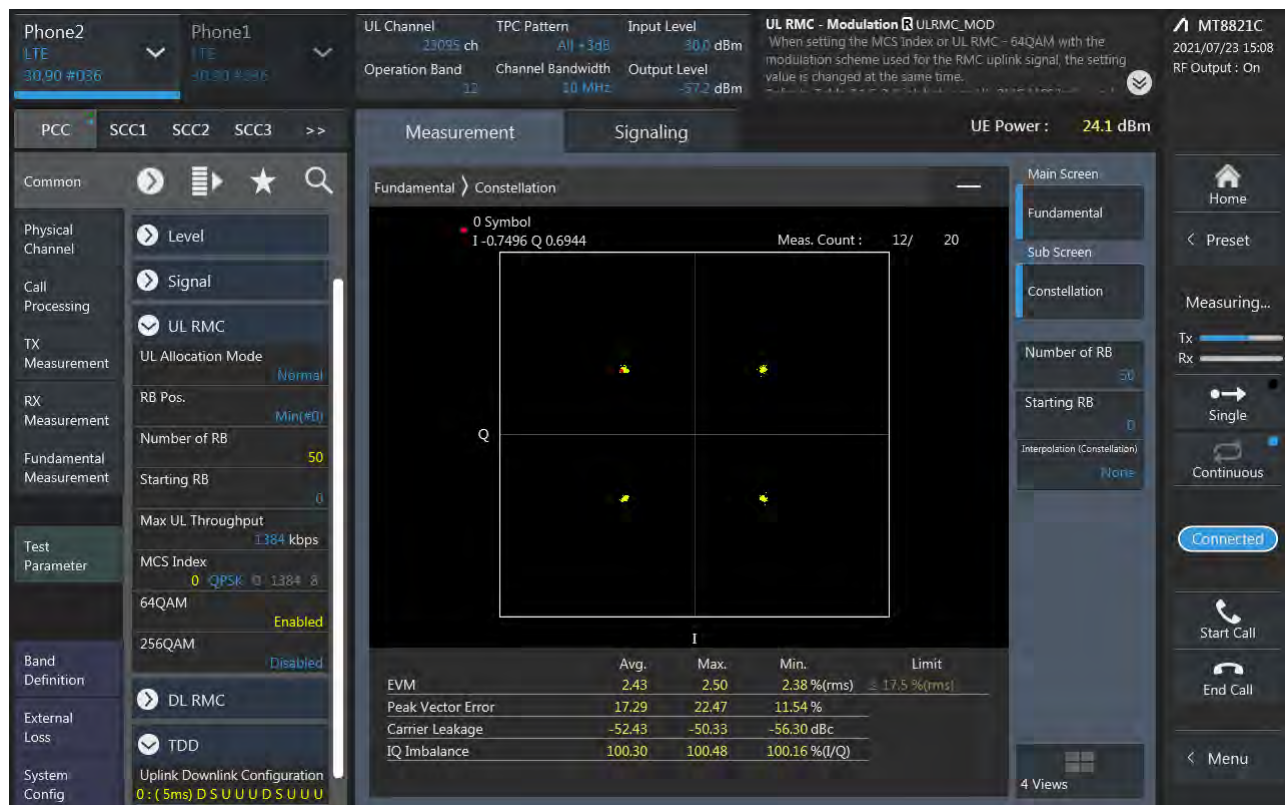




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

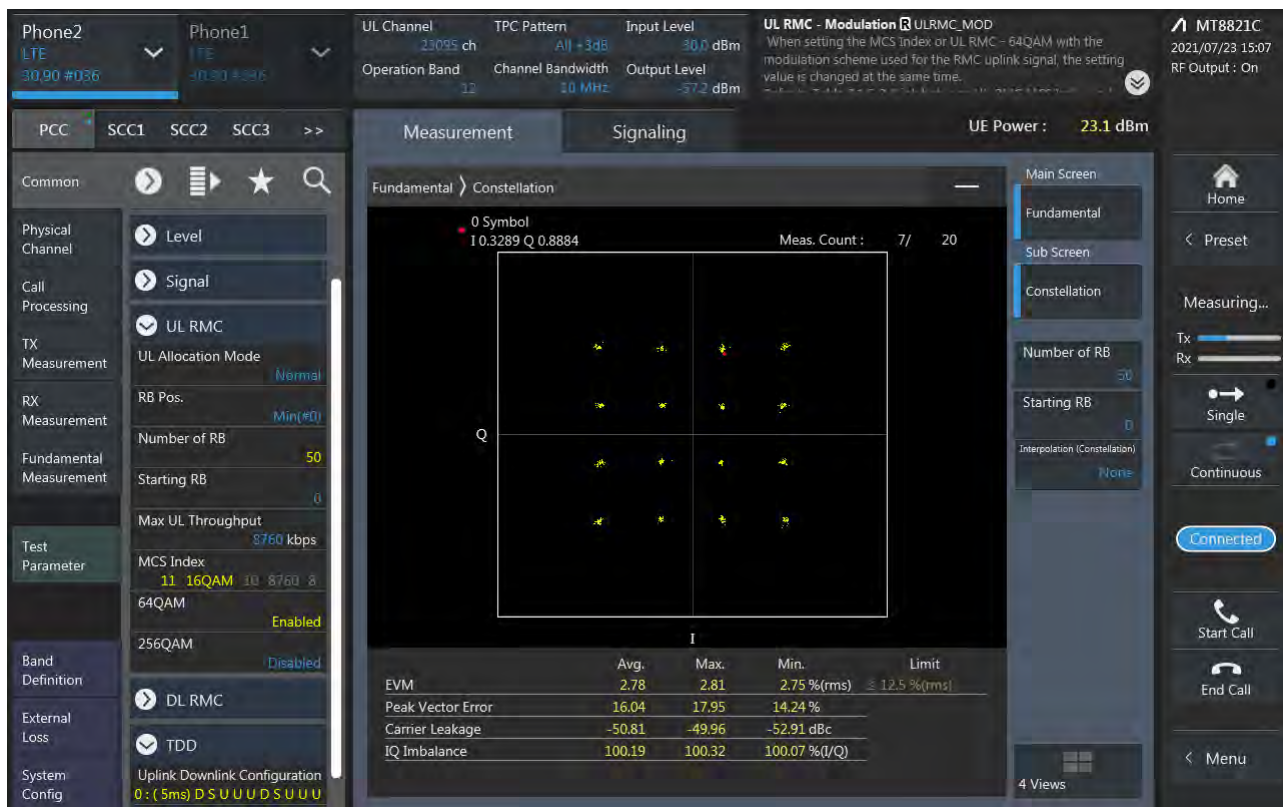
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





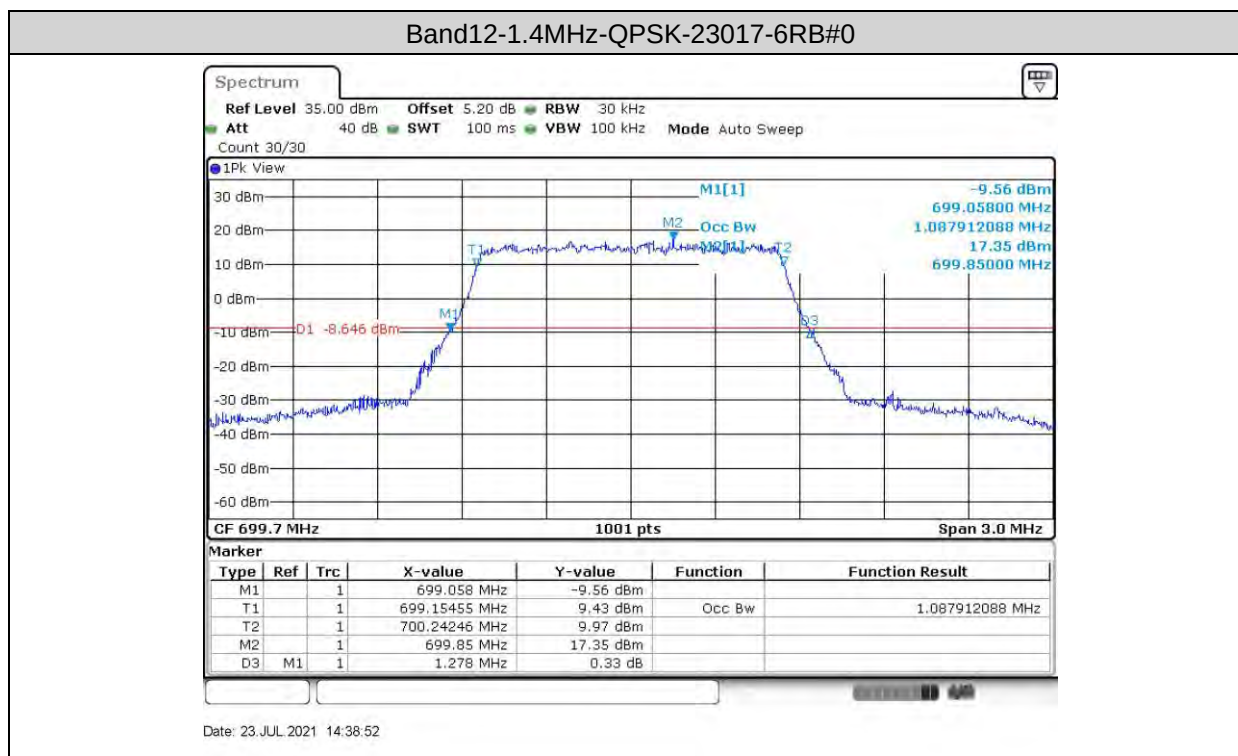
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

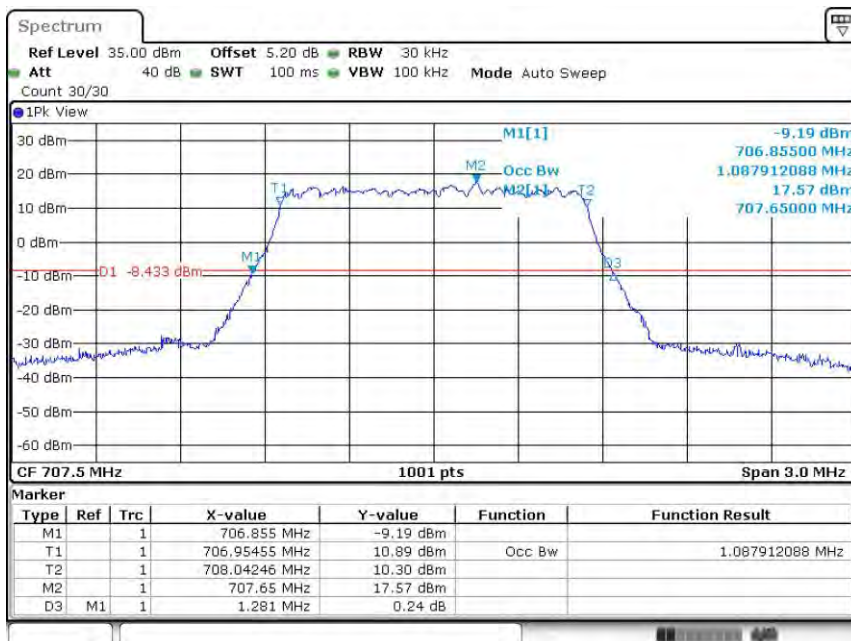
Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.278	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.281	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.091	1.272	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.097	1.314	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.097	1.284	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.308	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.691	2.976	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	2.964	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	2.964	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	2.970	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	2.976	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.982	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.780	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.870	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.466	4.910	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.820	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.466	4.940	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.466	4.920	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.911	9.680	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.911	9.680	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.660	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.891	9.660	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.911	9.660	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.891	9.620	PASS



4.2. Test Plots

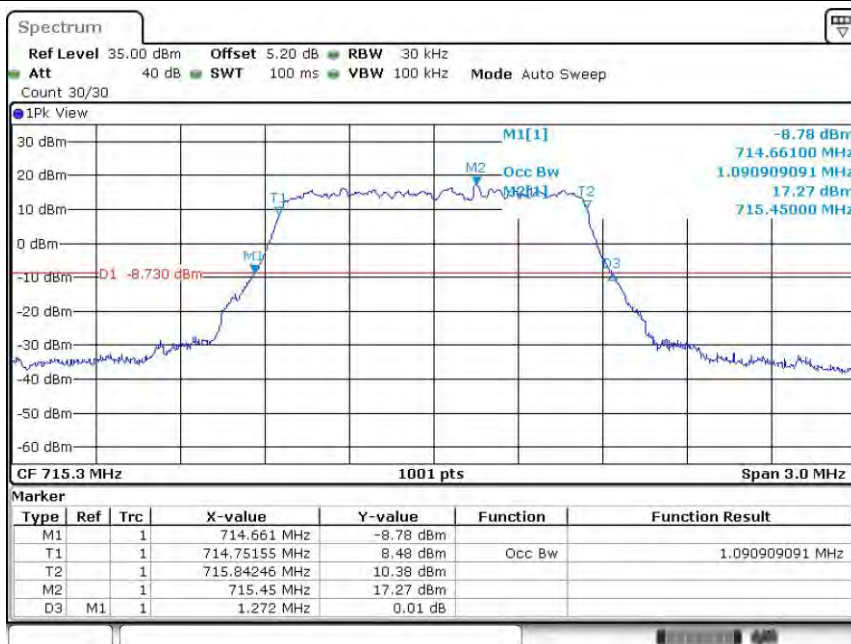


Band12-1.4MHz-QPSK-23095-6RB#0



Date: 23 JUL 2021 14:39:27

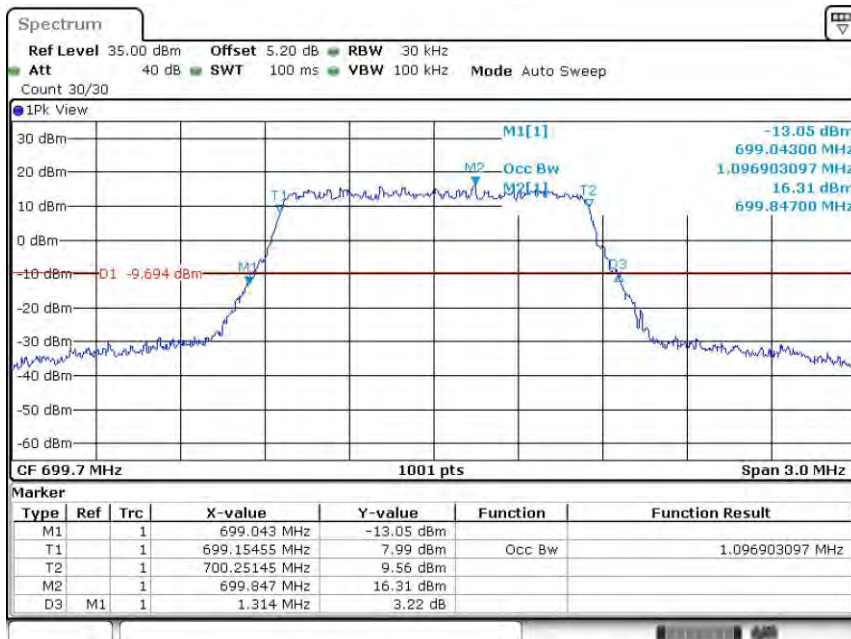
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Date: 23 JUL 2021 14:40:02

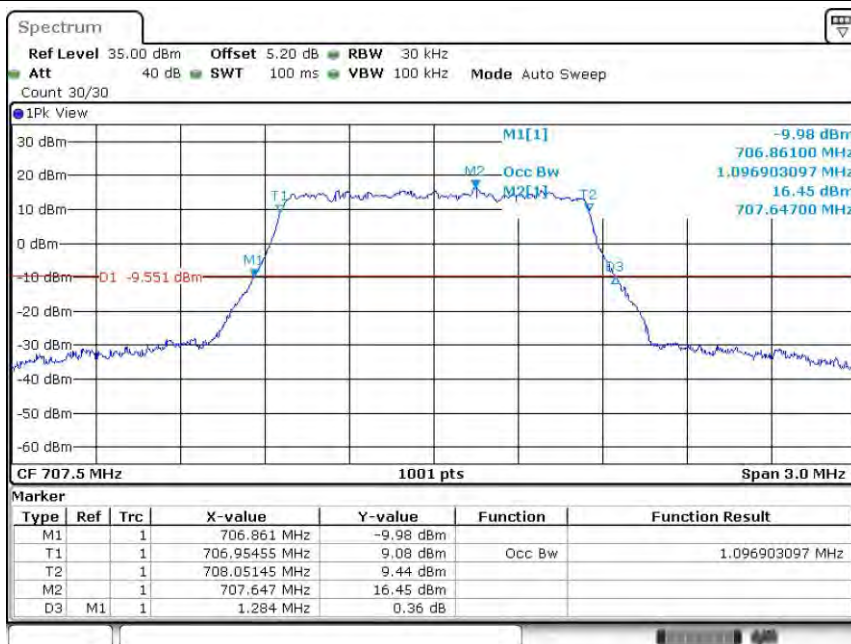


Band12-1.4MHz-16QAM-23017-6RB#0



Date: 23 JUL 2021 14:39:09

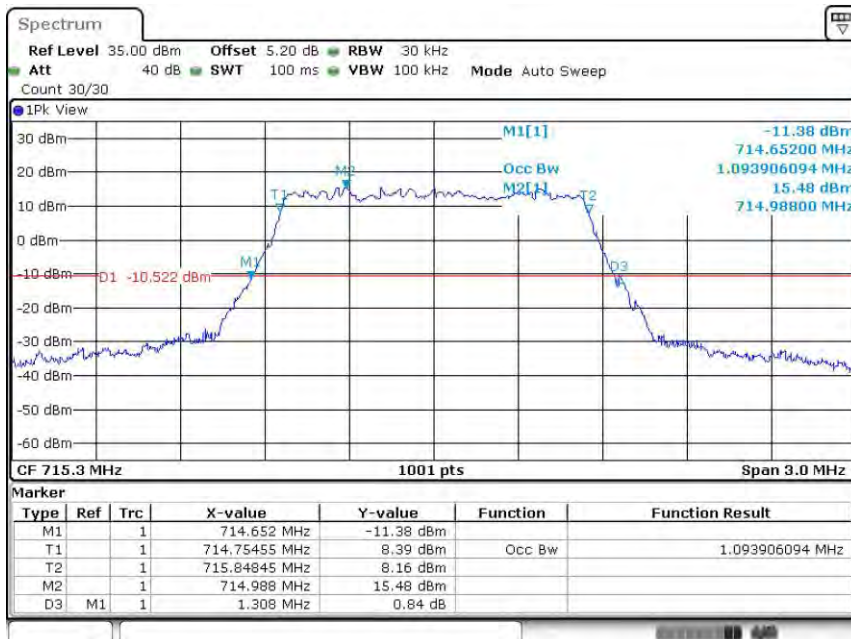
Band12-1.4MHz-16QAM-23095-6RB#0



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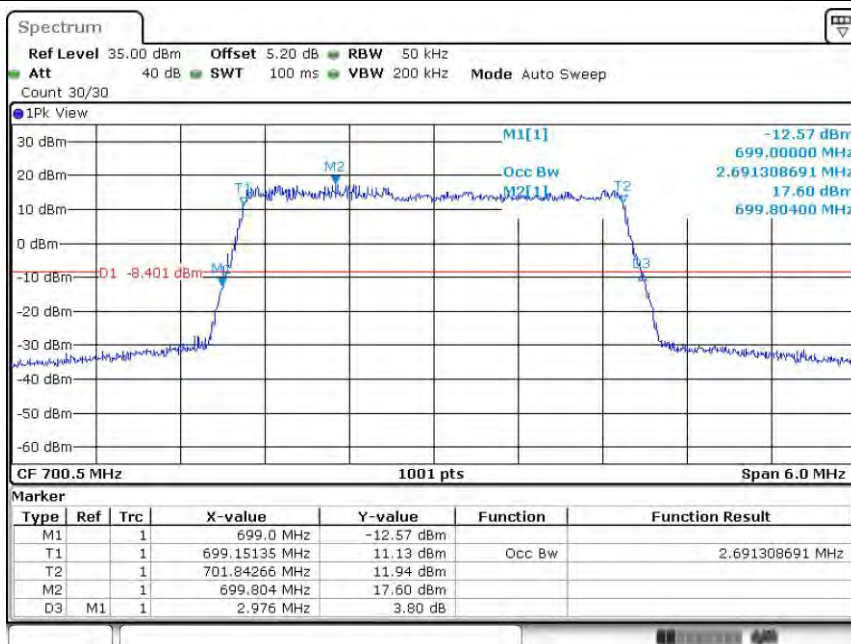


Band12-1.4MHz-16QAM-23173-6RB#0



Date: 23 JUL 2021 14:40:20

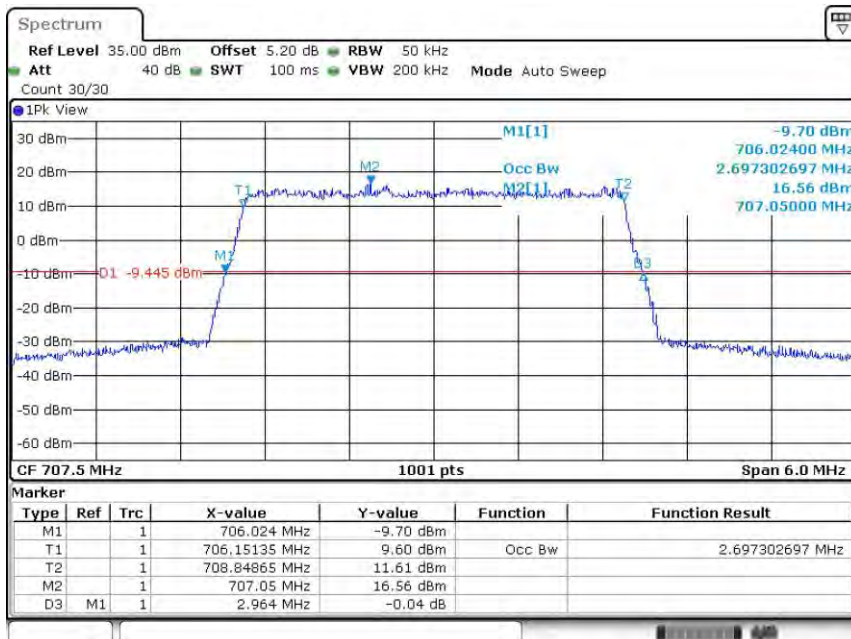
Band12-3MHz-QPSK-23025-15RB#0



Date: 23 JUL 2021 14:40:53

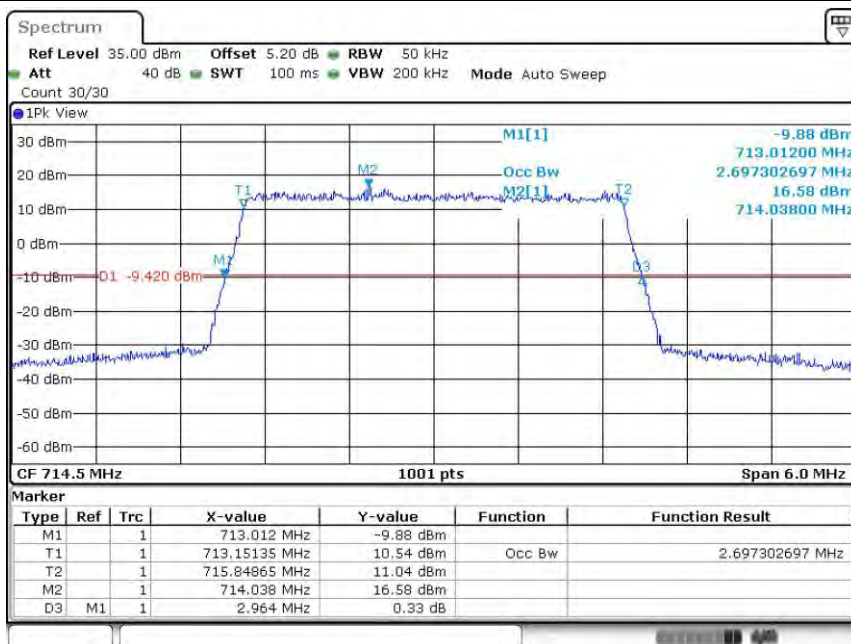


Band12-3MHz-QPSK-23095-15RB#0



Date: 23 JUL 2021 14:41:28

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



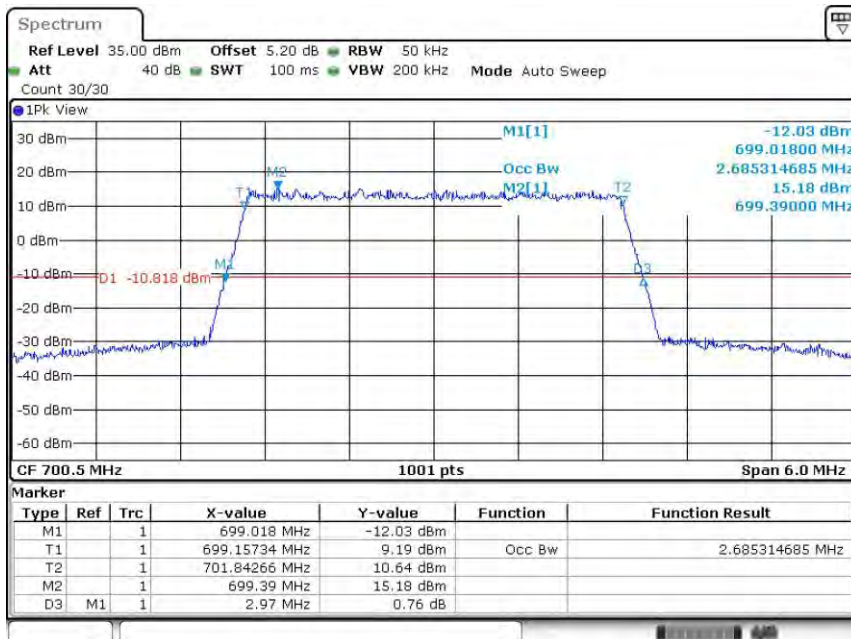
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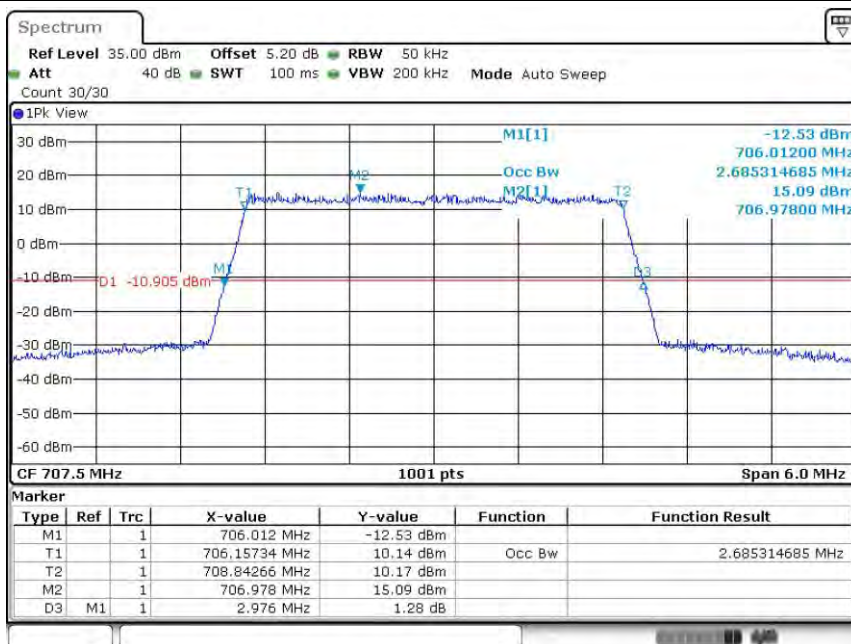
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Band12-3MHz-16QAM-23025-15RB#0



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



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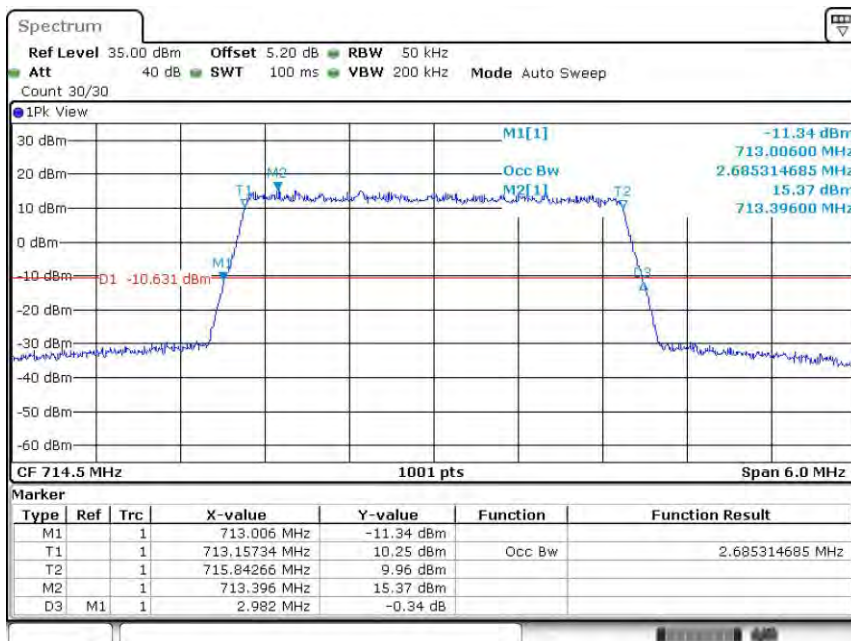
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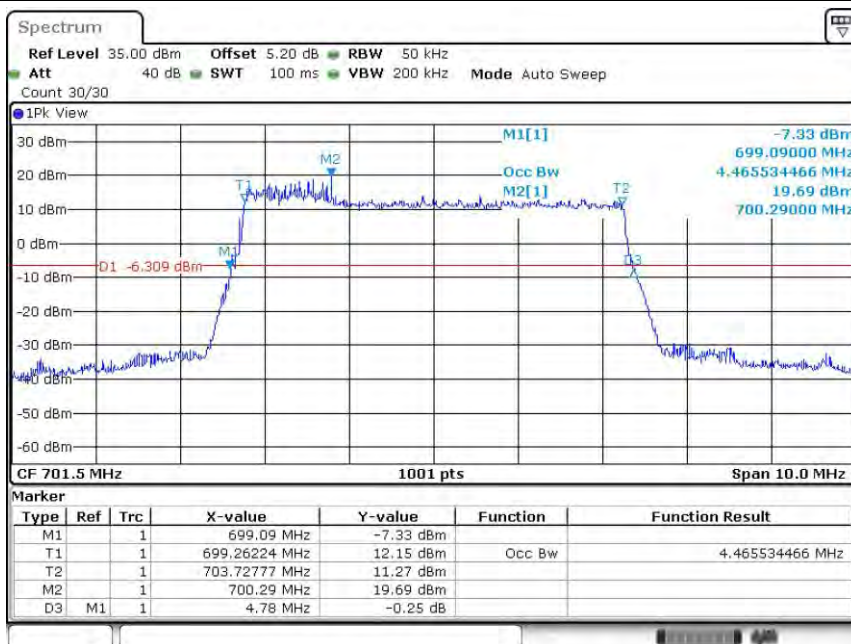
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Band12-3MHz-16QAM-23165-15RB#0



Date: 23 JUL 2021 14:42:21

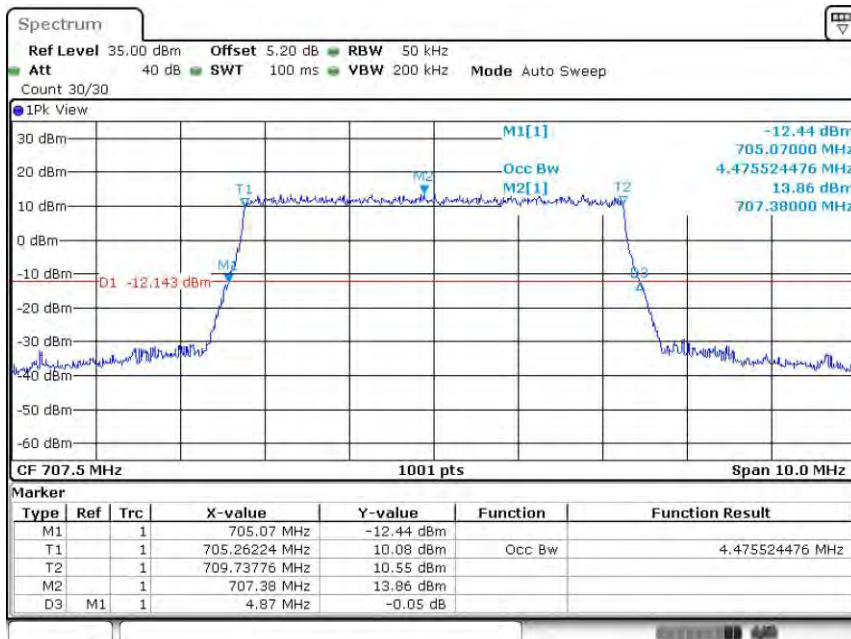
Band12-5MHz-QPSK-23035-25RB#0



Date: 23 JUL 2021 14:42:57

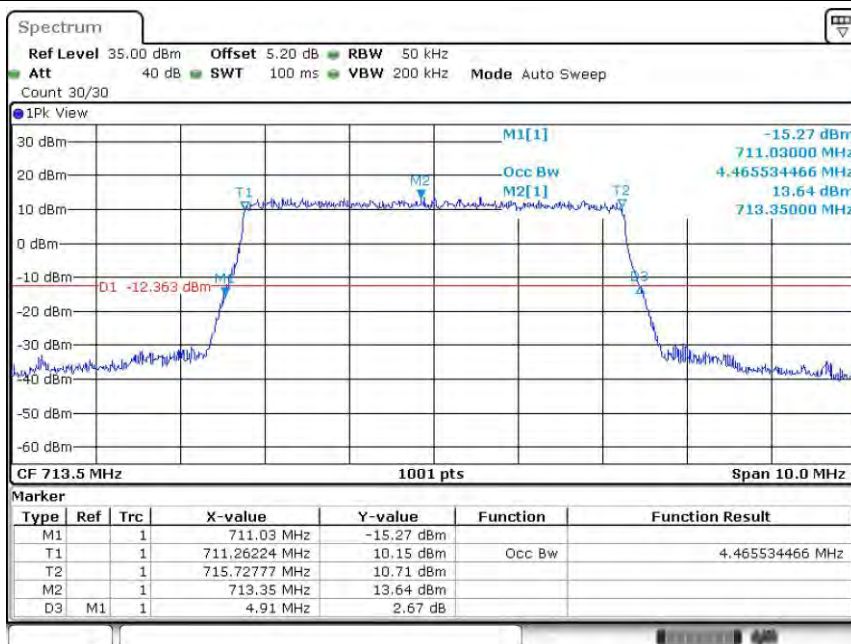


Band12-5MHz-QPSK-23095-25RB#0



Date: 23 JUL 2021 14:43:33

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



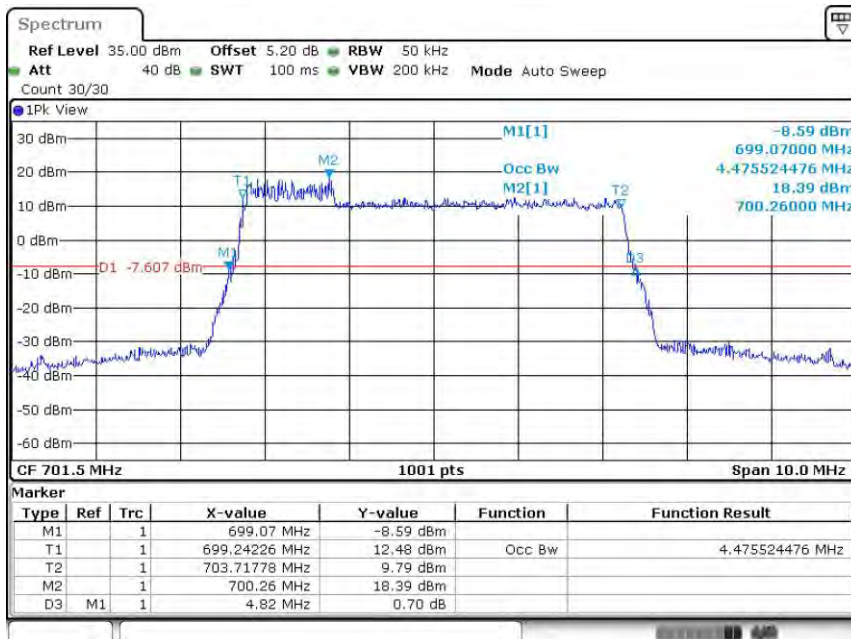
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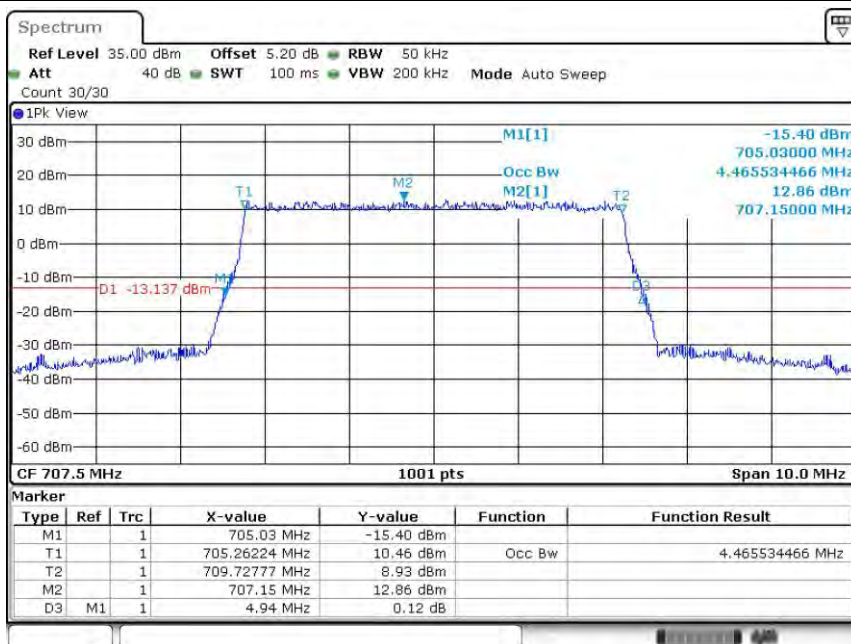
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Band12-5MHz-16QAM-23035-25RB#0



Date: 23.JUL.2021 14:43:15

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



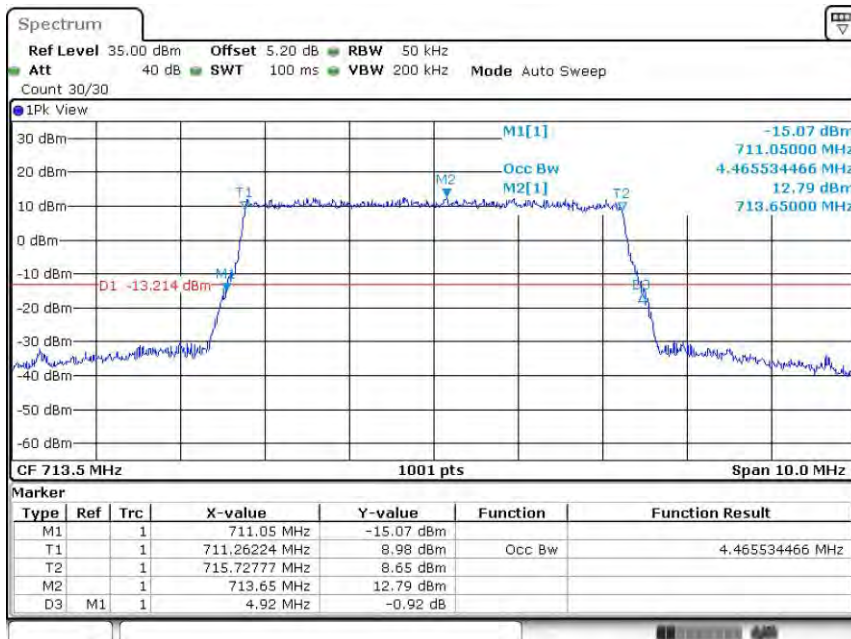
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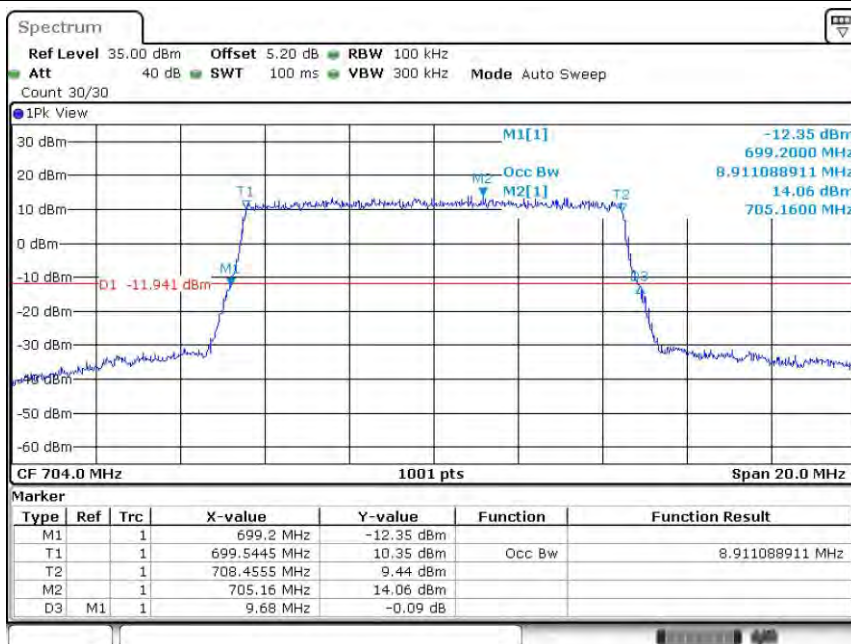
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Band12-5MHz-16QAM-23155-25RB#0



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



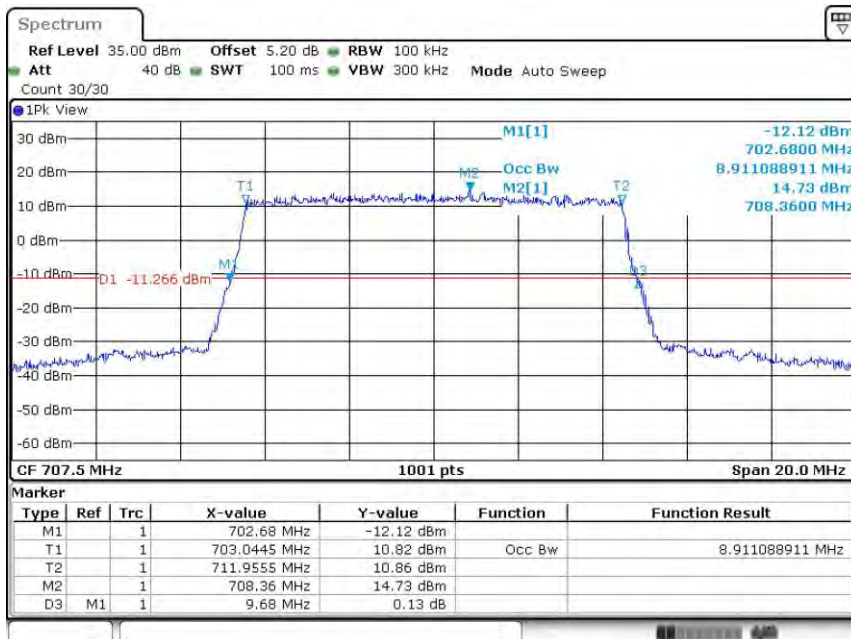
Date: 23 JUL 2021 14:53:08



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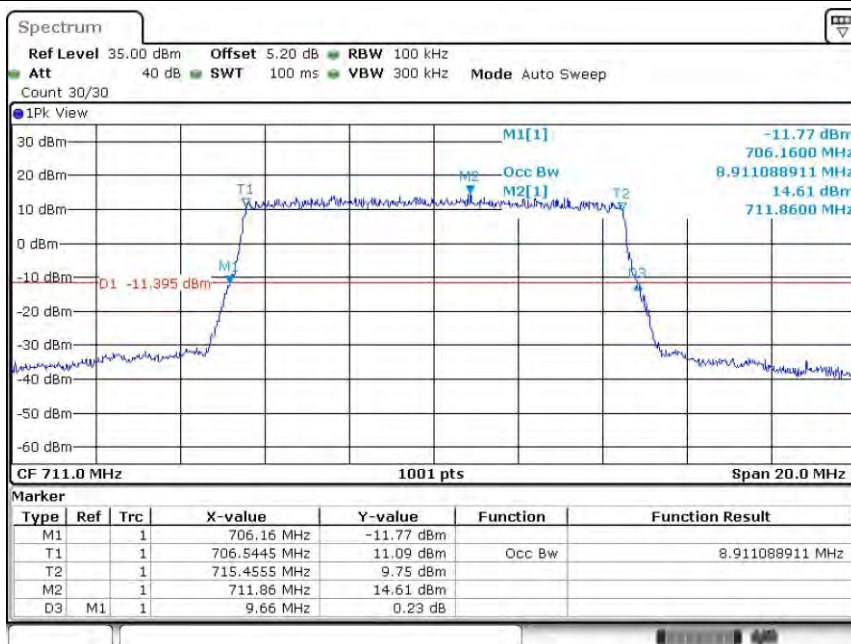
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Band12-10MHz-QPSK-23095-50RB#0



Date: 23.JUL.2021 14:53:43

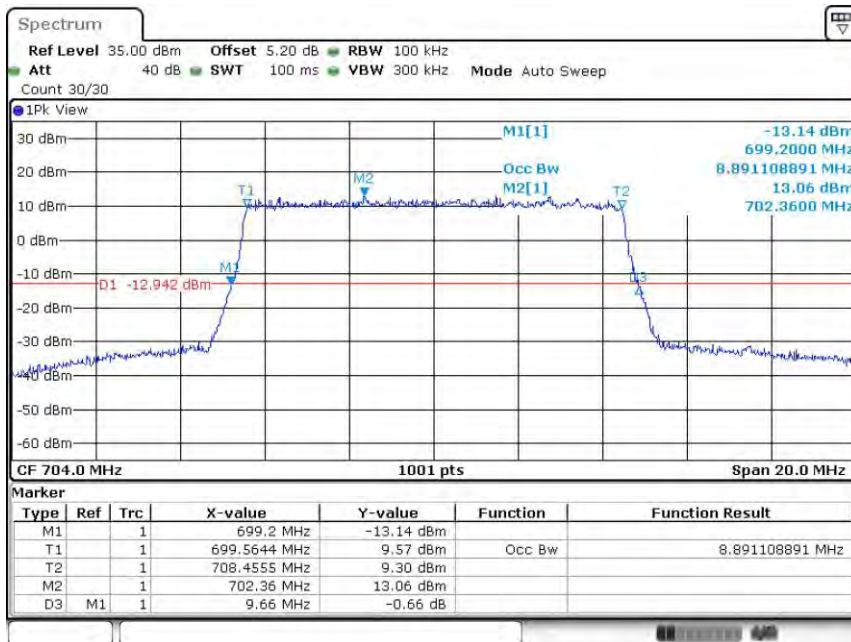
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Date: 23.JUL.2021 14:54:19

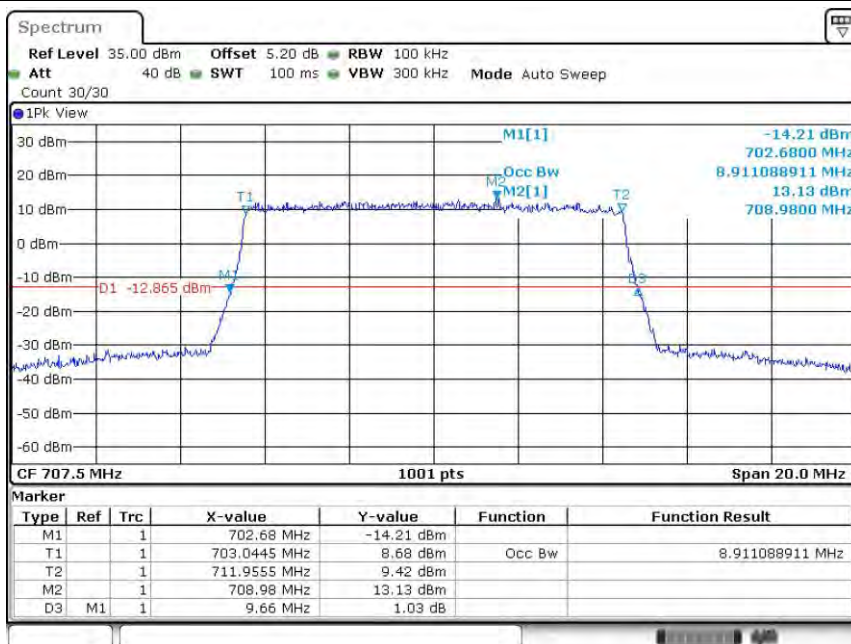


Band12-10MHz-16QAM-23060-50RB#0



Date: 23 JUL 2021 14:53:25

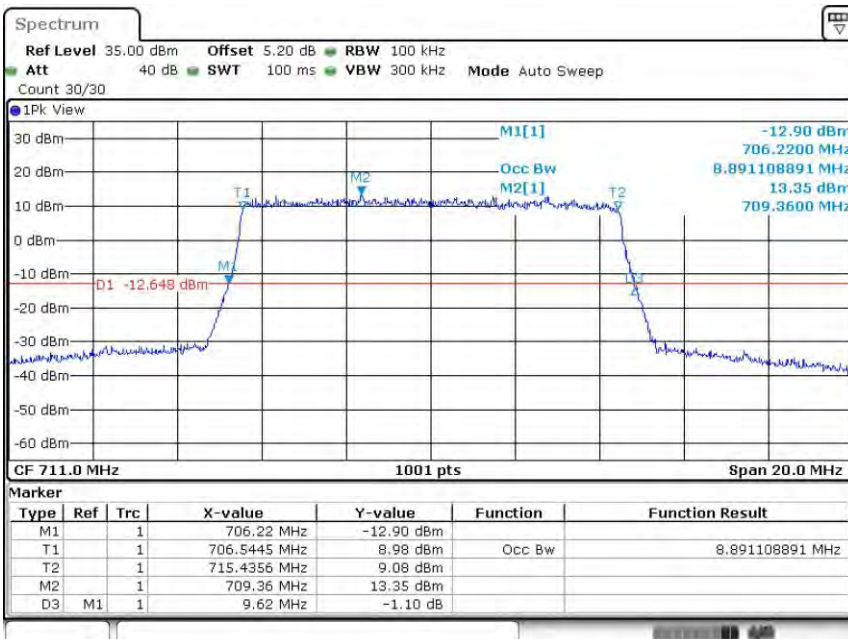
Band12-10MHz-16QAM-23095-50RB#0



Date: 23 JUL 2021 14:54:01



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



Date: 23 JUL 2021 14:54:36

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Shenzhen Branch

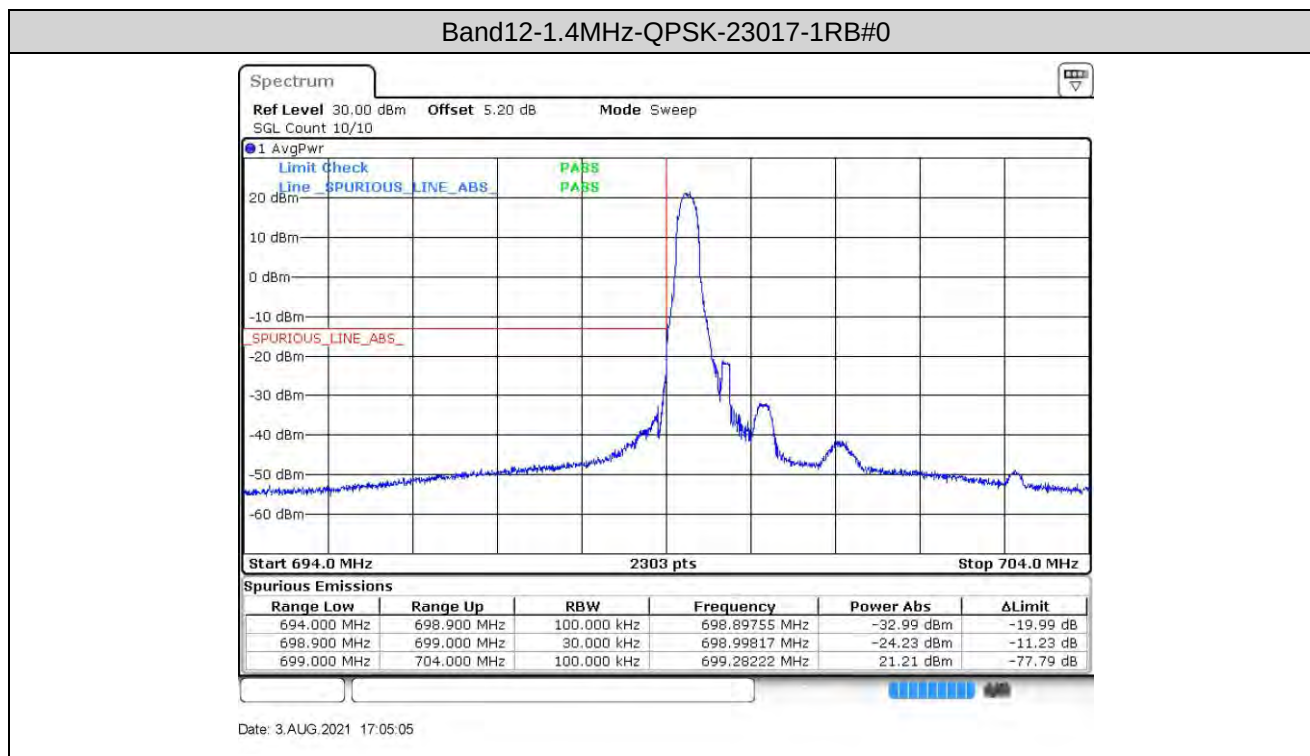
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5. Band Edge Compliance

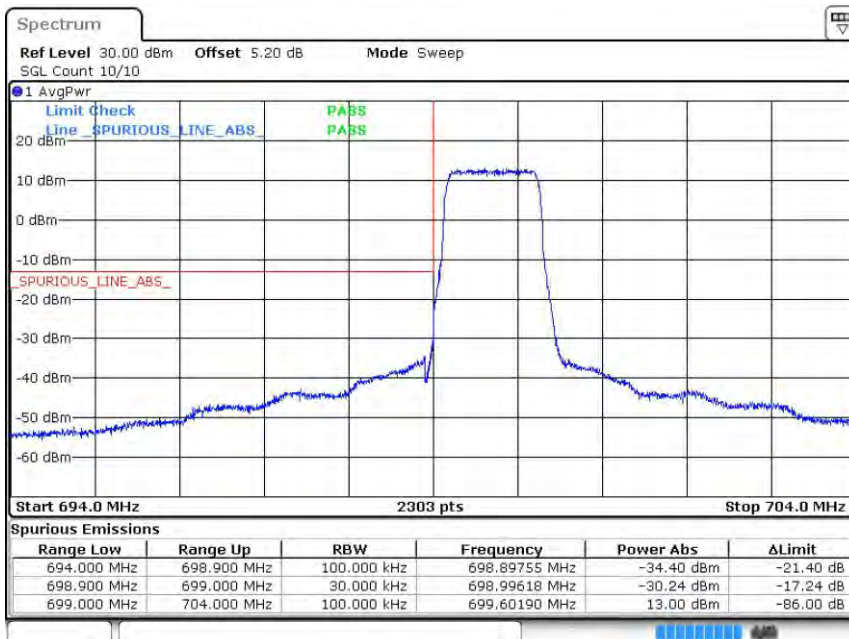
5.1. Test Plots



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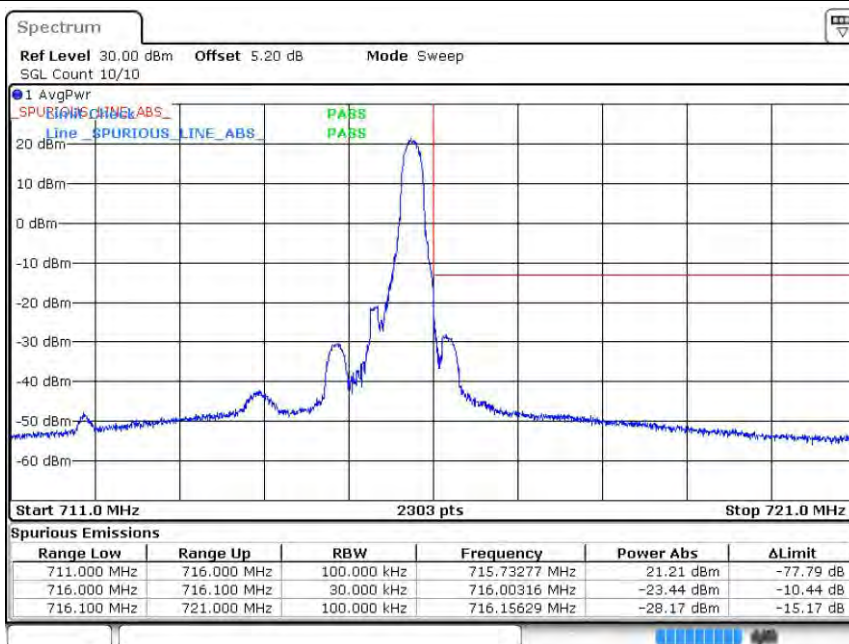
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Band12-1.4MHz-QPSK-23017-6RB#0



Date: 3.AUG.2021 17:05:46

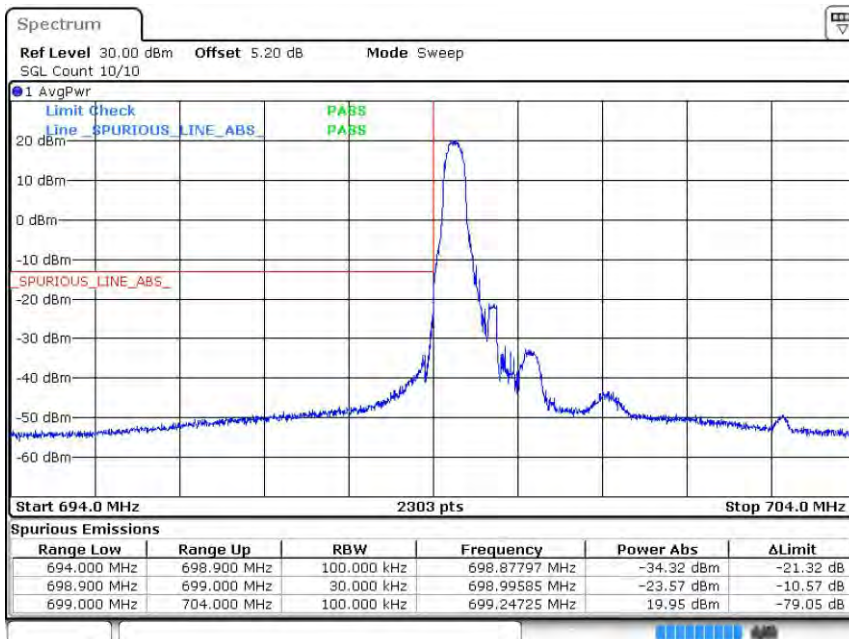
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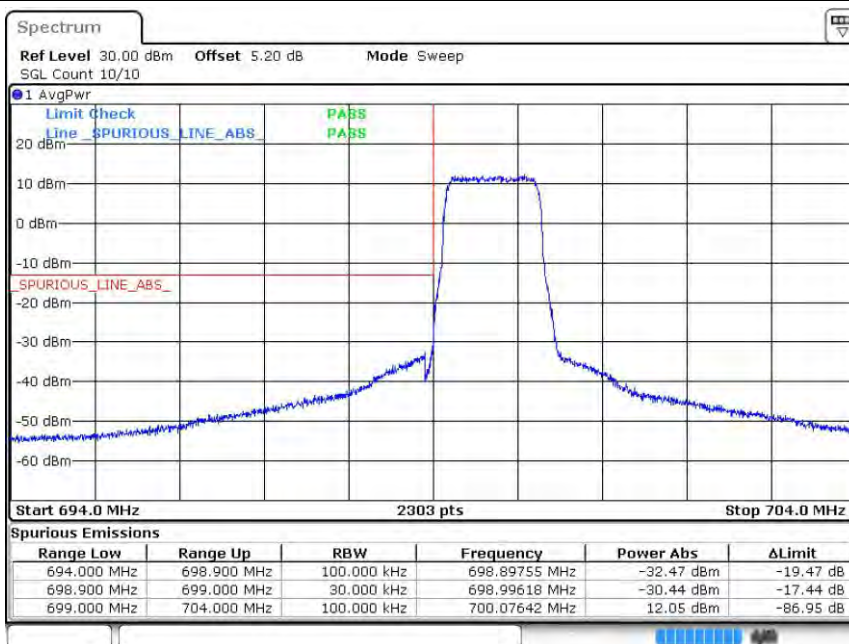


Band12-1.4MHz-16QAM-23017-1RB#0



Date: 3.AUG.2021 17:05:25

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



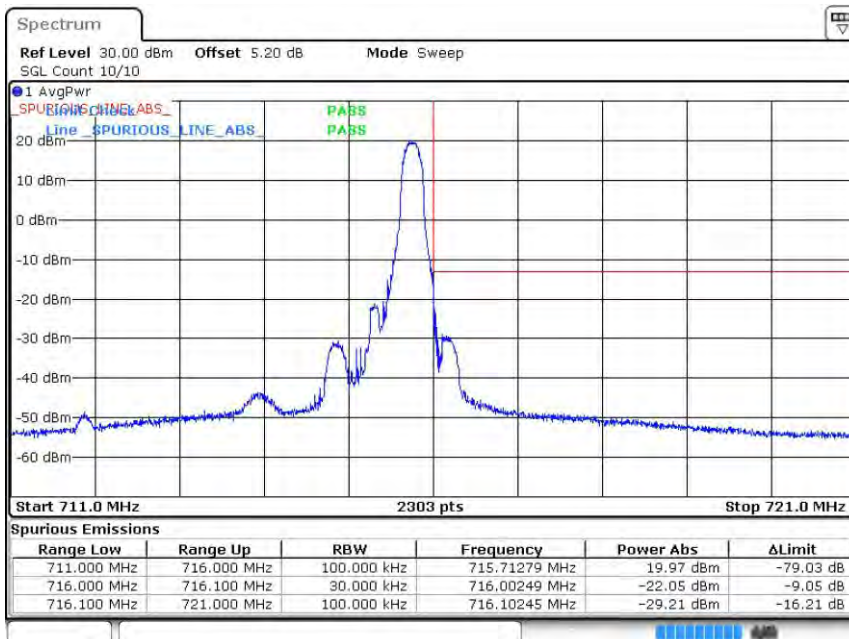
Date: 3.AUG.2021 17:06:06



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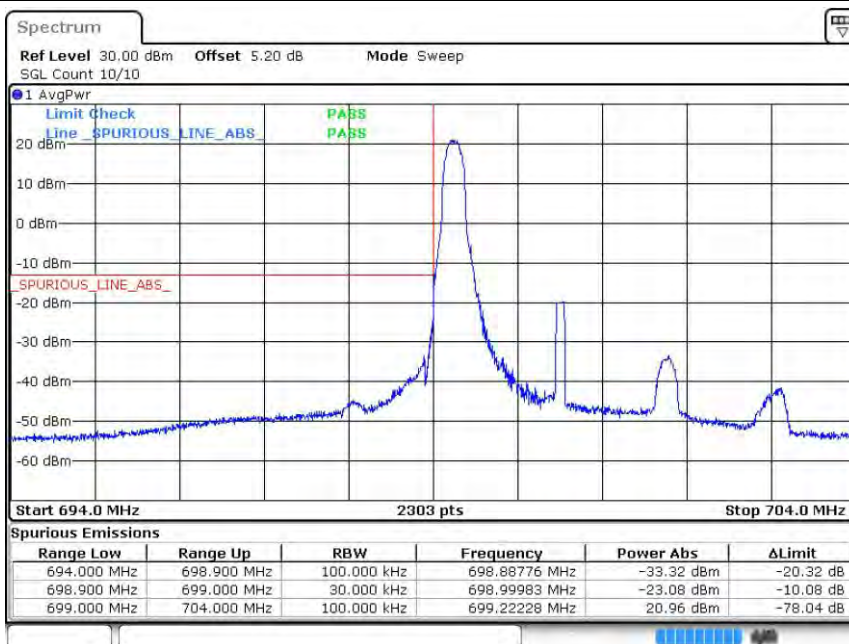
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Band12-1.4MHz-16QAM-23173-1RB#5



Date: 3.AUG.2021 17:07:07

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



Date: 5.AUG.2021 19:55:14

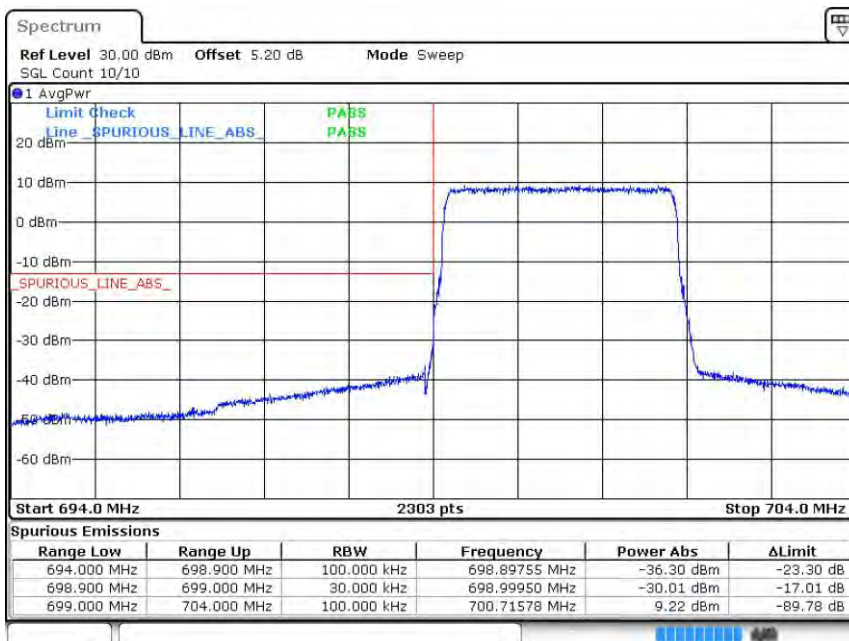
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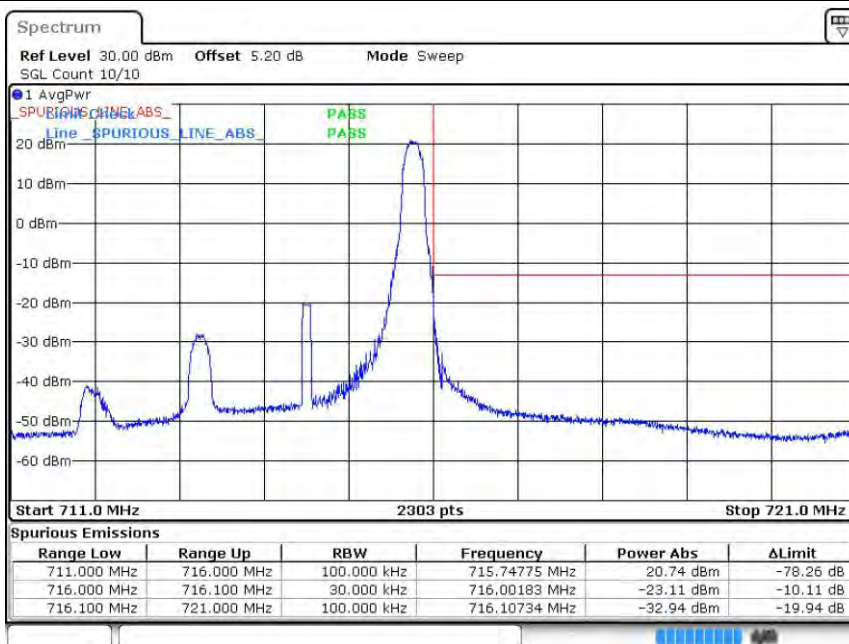
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Band12-3MHz-QPSK-23025-15RB#0



Date: 5.AUG.2021 19:55:54

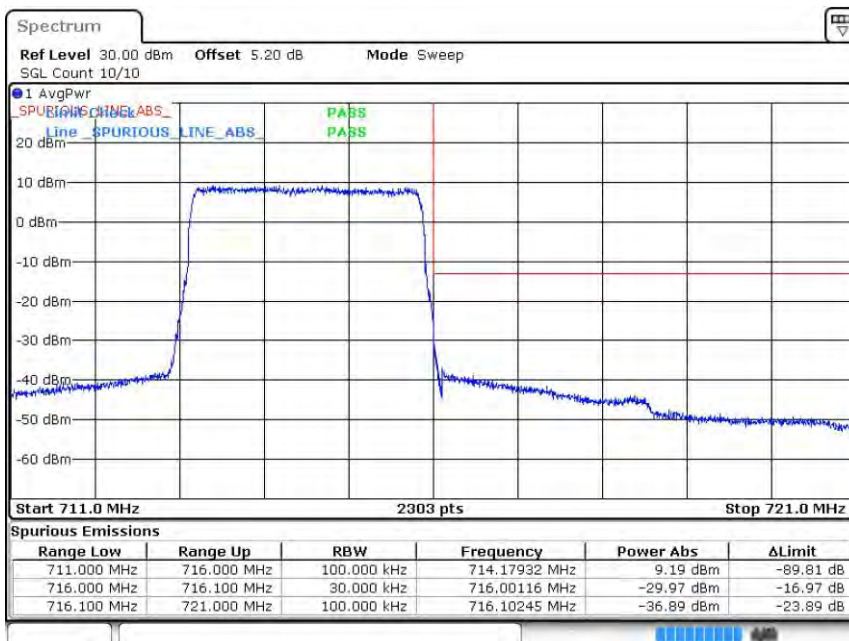
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Date: 5.AUG.2021 19:56:56

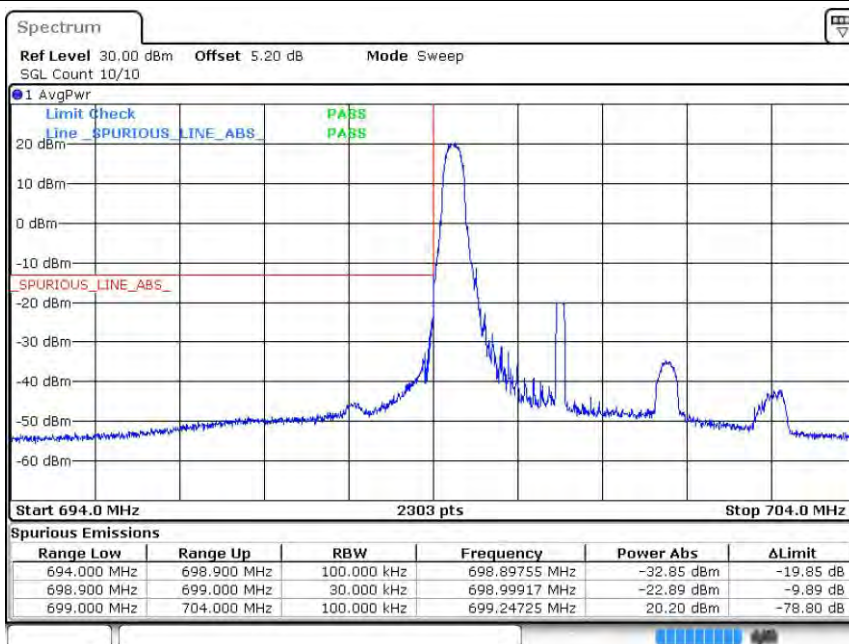


Band12-3MHz-QPSK-23165-15RB#0



Date: 5.AUG.2021 19:57:37

Band12-3MHz-16QAM-23025-1RB#0



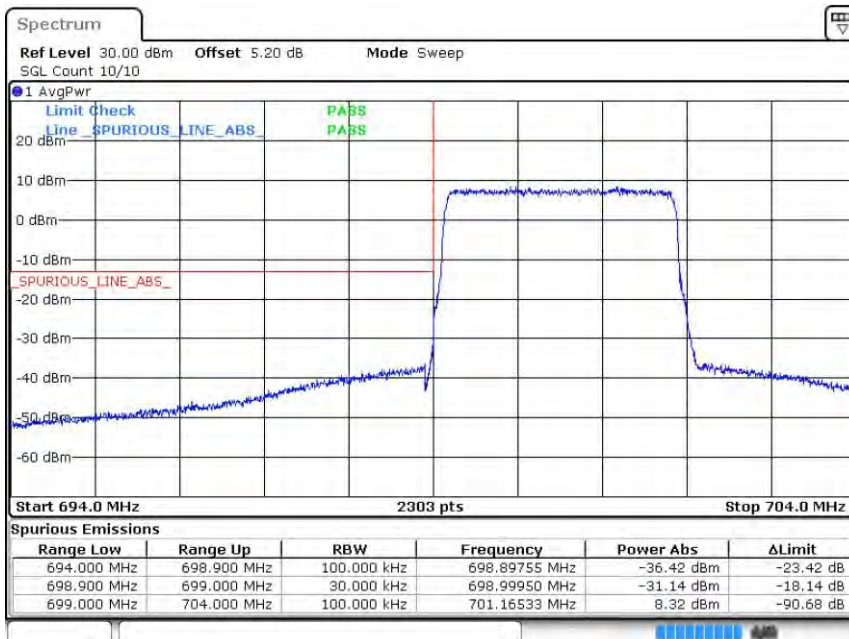
Date: 5.AUG.2021 19:55:34



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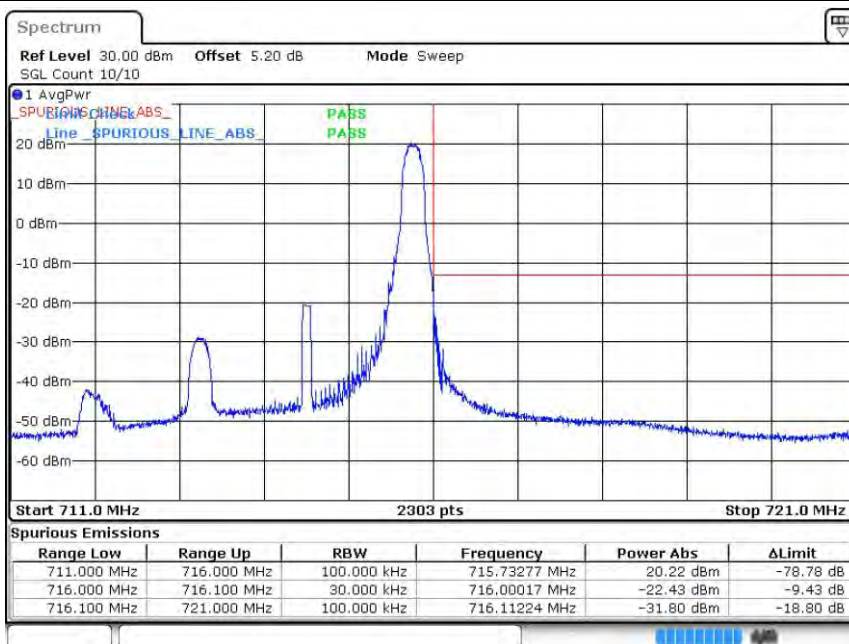
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Band12-3MHz-16QAM-23025-15RB#0



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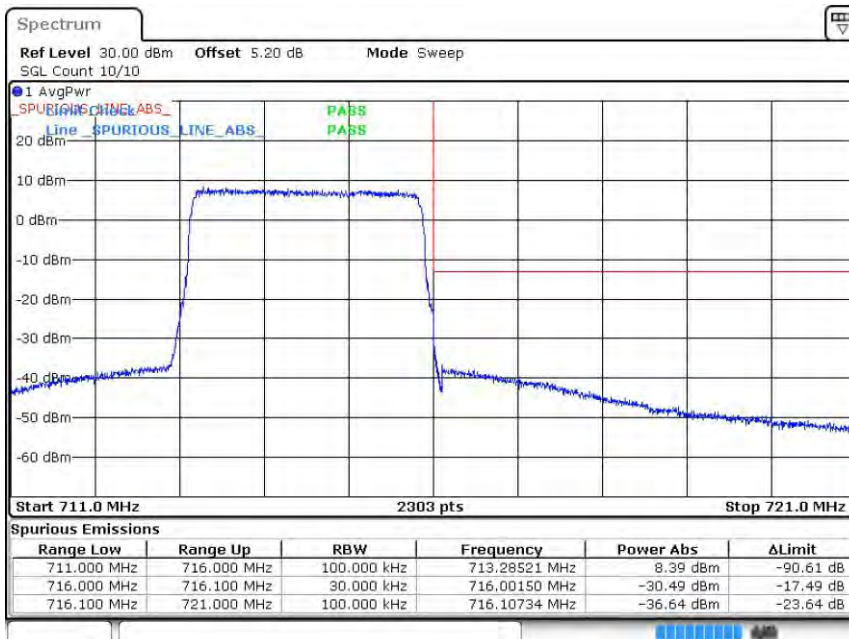
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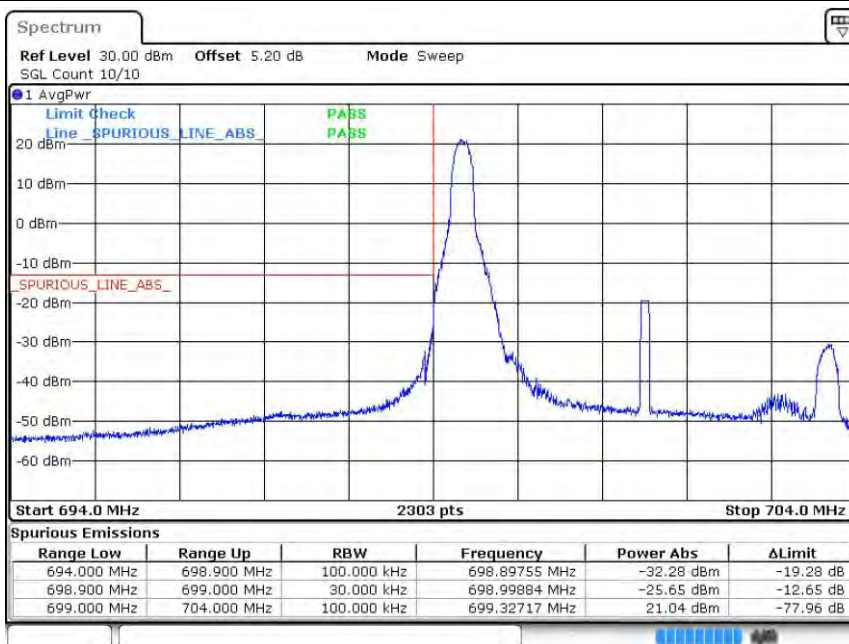


Band12-3MHz-16QAM-23165-15RB#0



Date: 5.AUG.2021 19:57:57

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



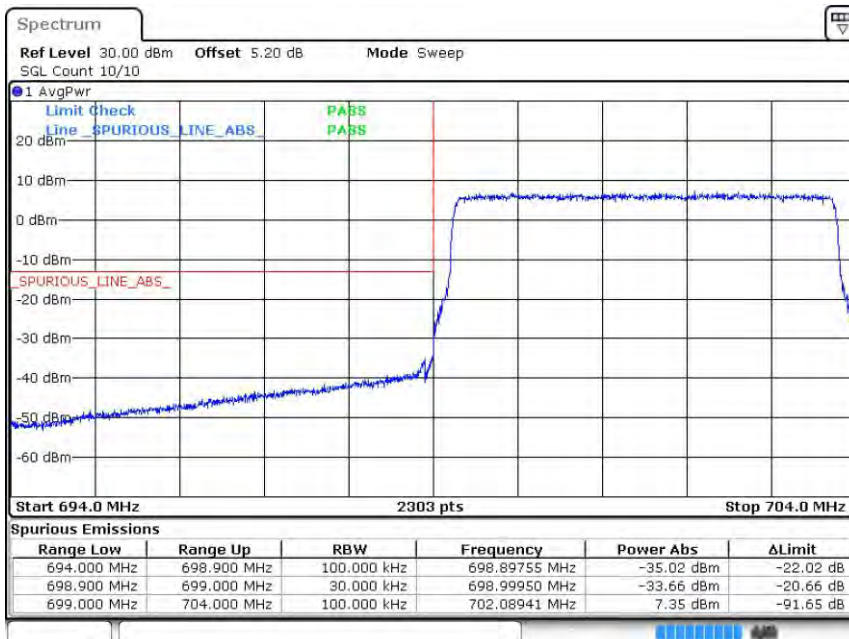
Date: 23.JUL.2021 15:02:42



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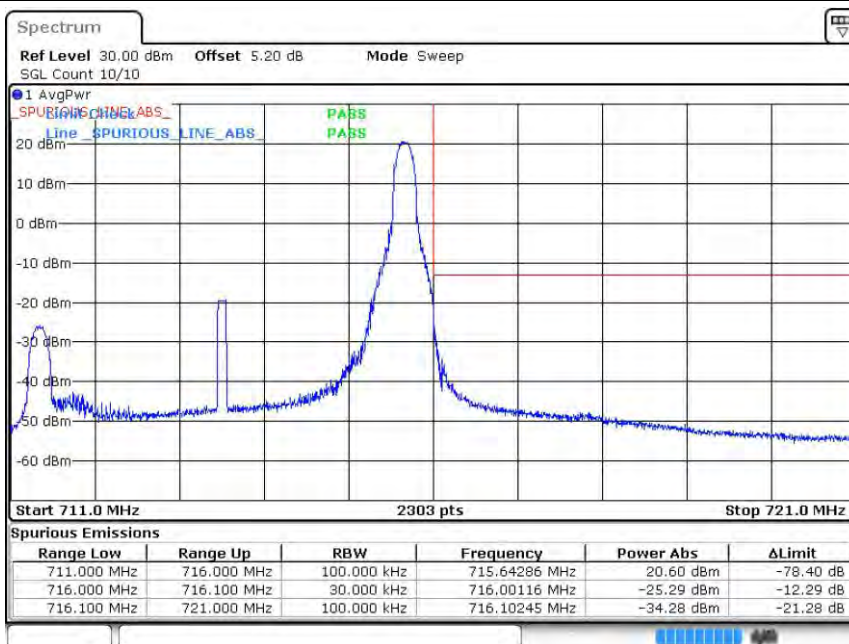
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Band12-5MHz-QPSK-23035-25RB#0



Date: 23.JUL.2021 15:03:26

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



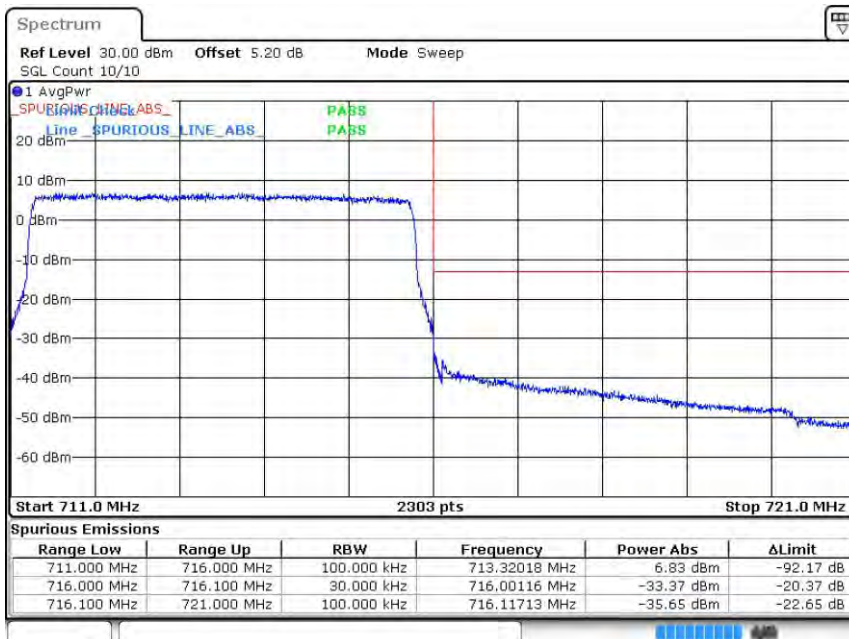
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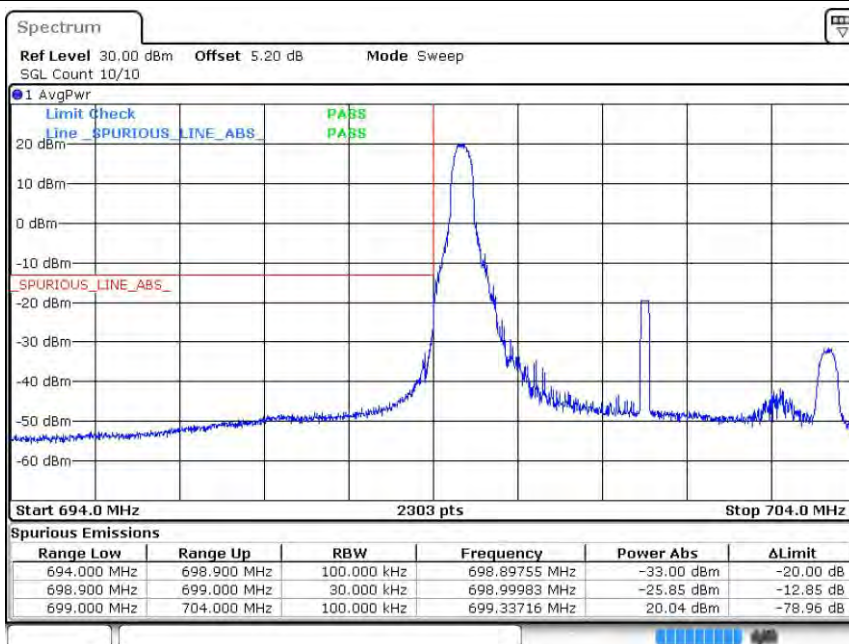
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Band12-5MHz-QPSK-23155-25RB#0



Date: 23.JUL.2021 15:07:02

Band12-5MHz-16QAM-23035-1RB#0



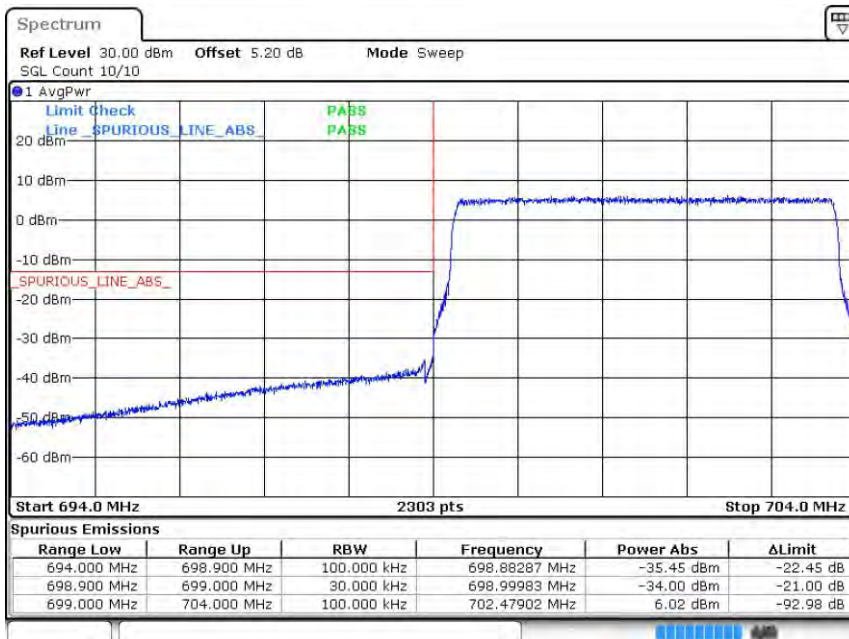
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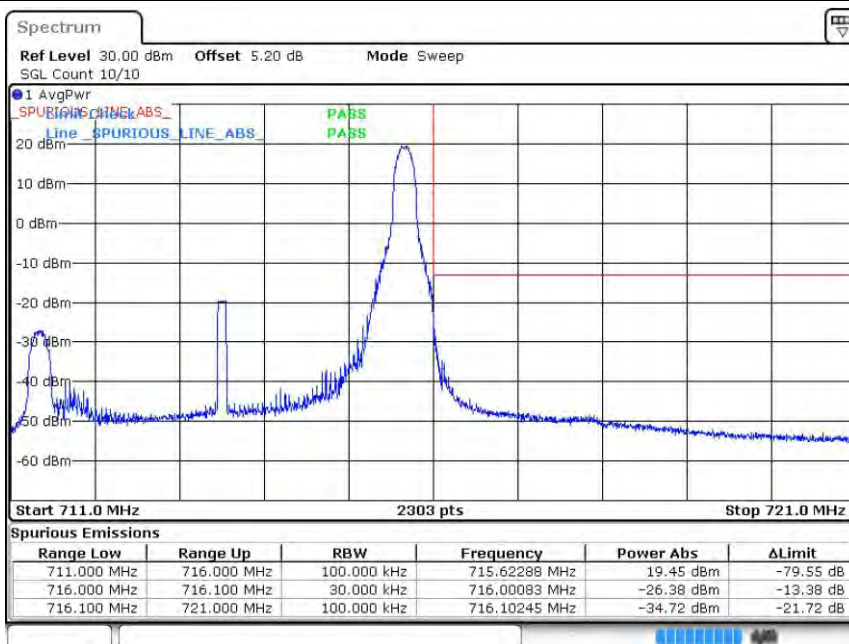
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Band12-5MHz-16QAM-23035-25RB#0



Date: 23.JUL.2021 15:03:48

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



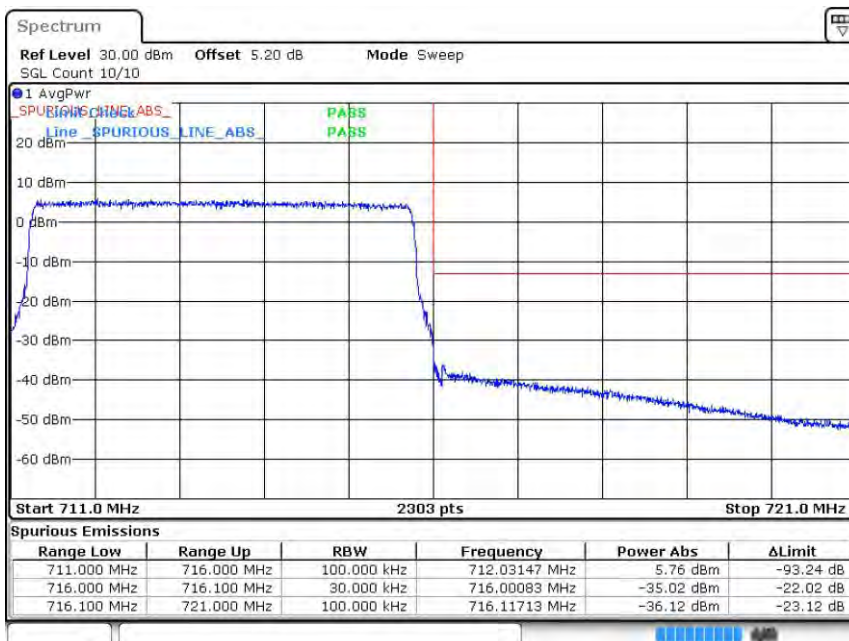
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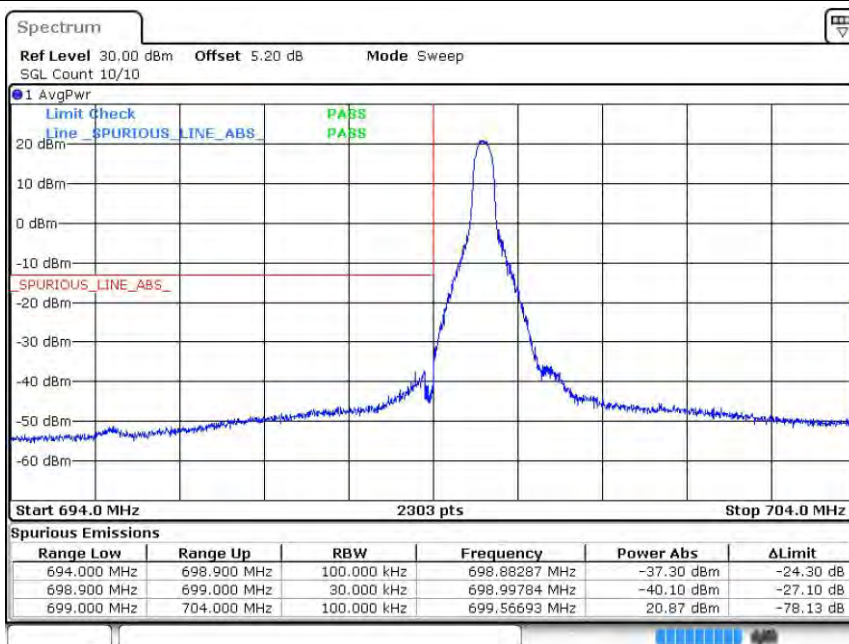
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Band12-5MHz-16QAM-23155-25RB#0



Date: 23.JUL.2021 15:07:24

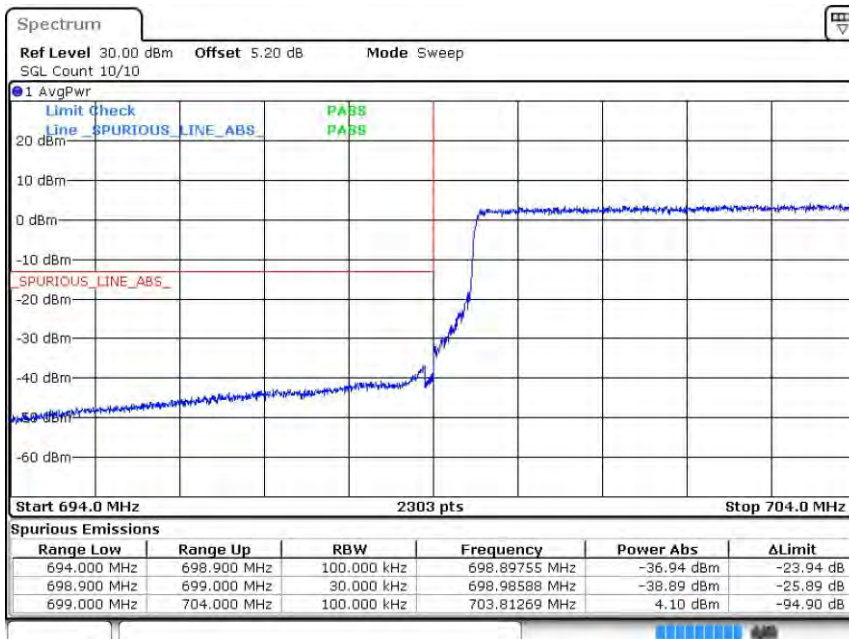
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Date: 23.JUL.2021 15:08:06

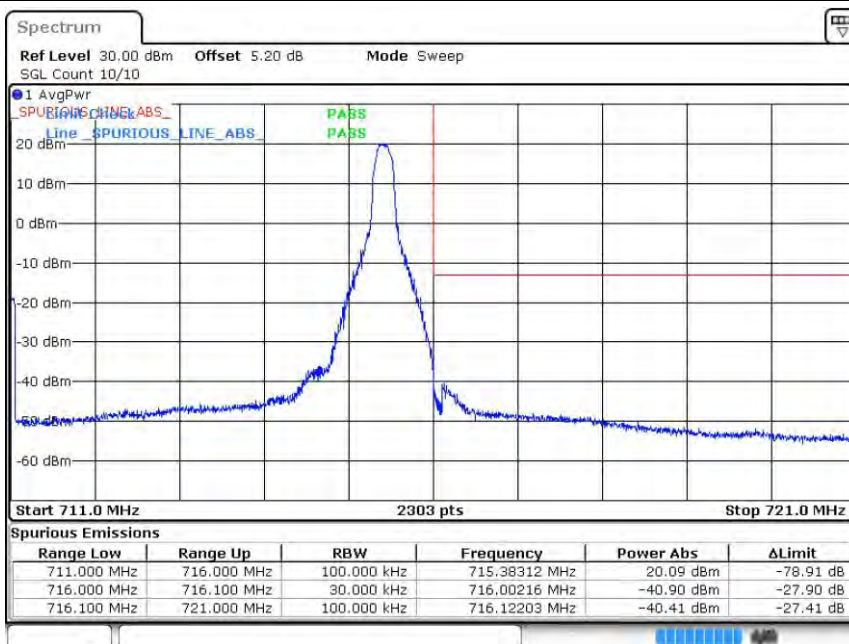


Band12-10MHz-QPSK-23060-50RB#0



Date: 23.JUL.2021 15:08:50

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



Date: 23.JUL.2021 15:10:22



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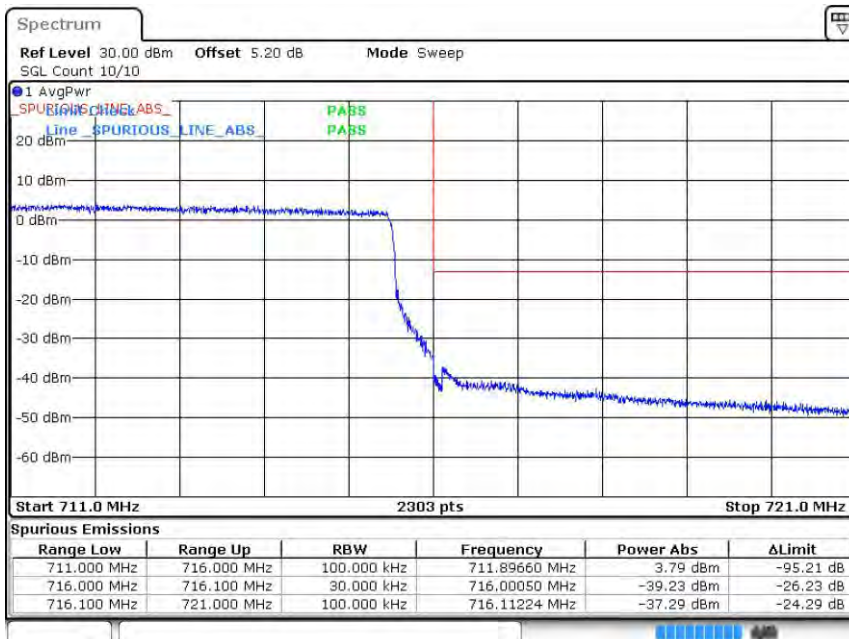
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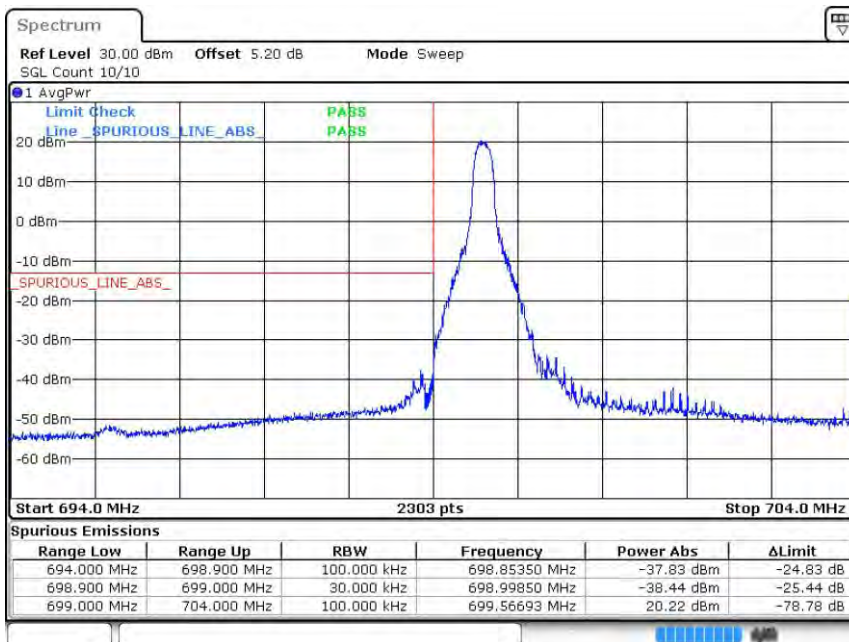
Member of the SGS Group (SGS SA)

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



Date: 23.JUL 2021 15:11:07

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



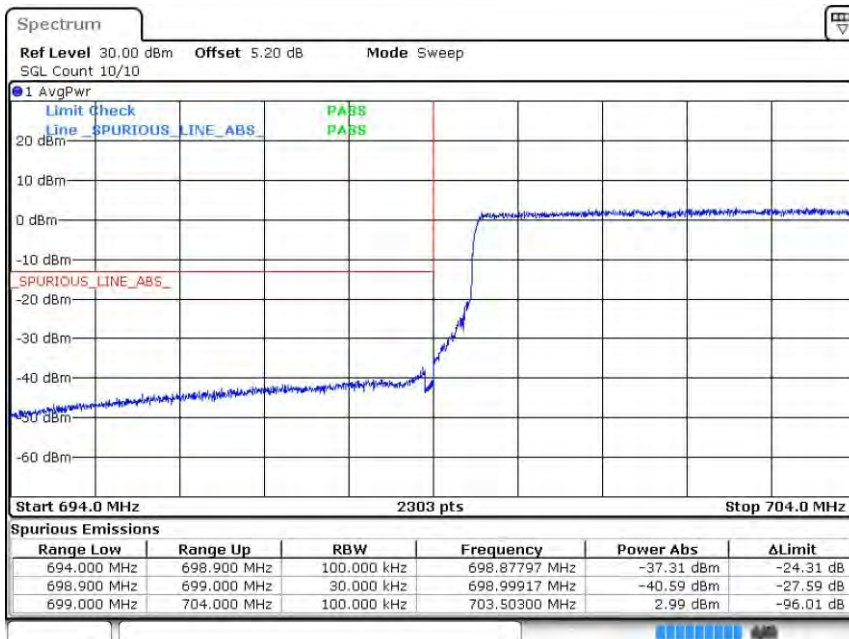
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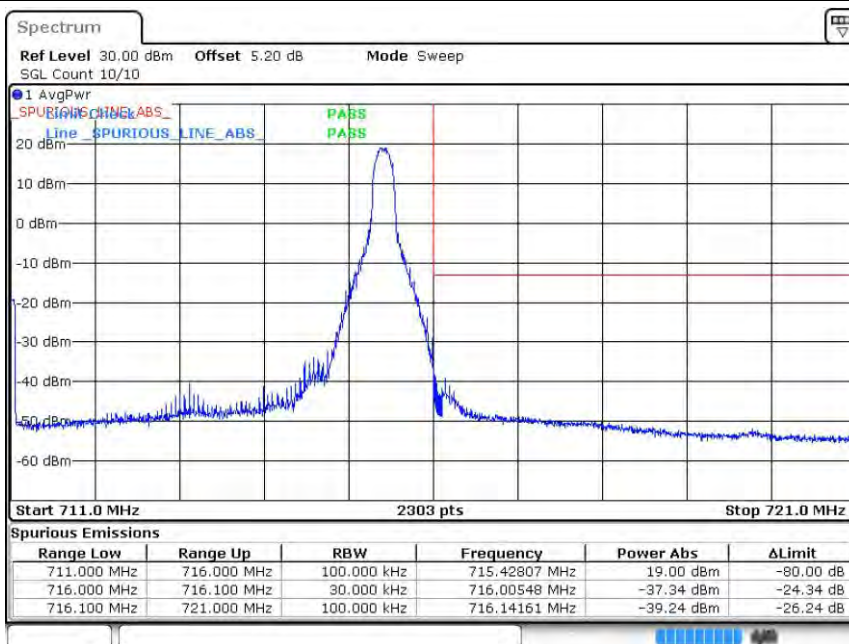
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Band12-10MHz-16QAM-23060-50RB#0



Date: 23.JUL.2021 15:09:12

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



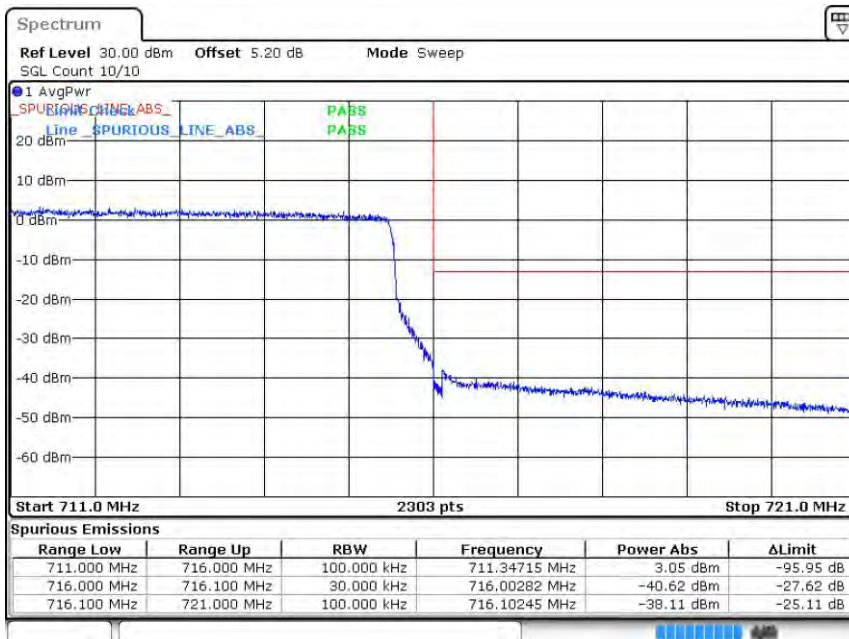
Date: 23.JUL.2021 15:10:44



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



Date: 23.JUL.2021 15:11:29



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Shenzhen Branch

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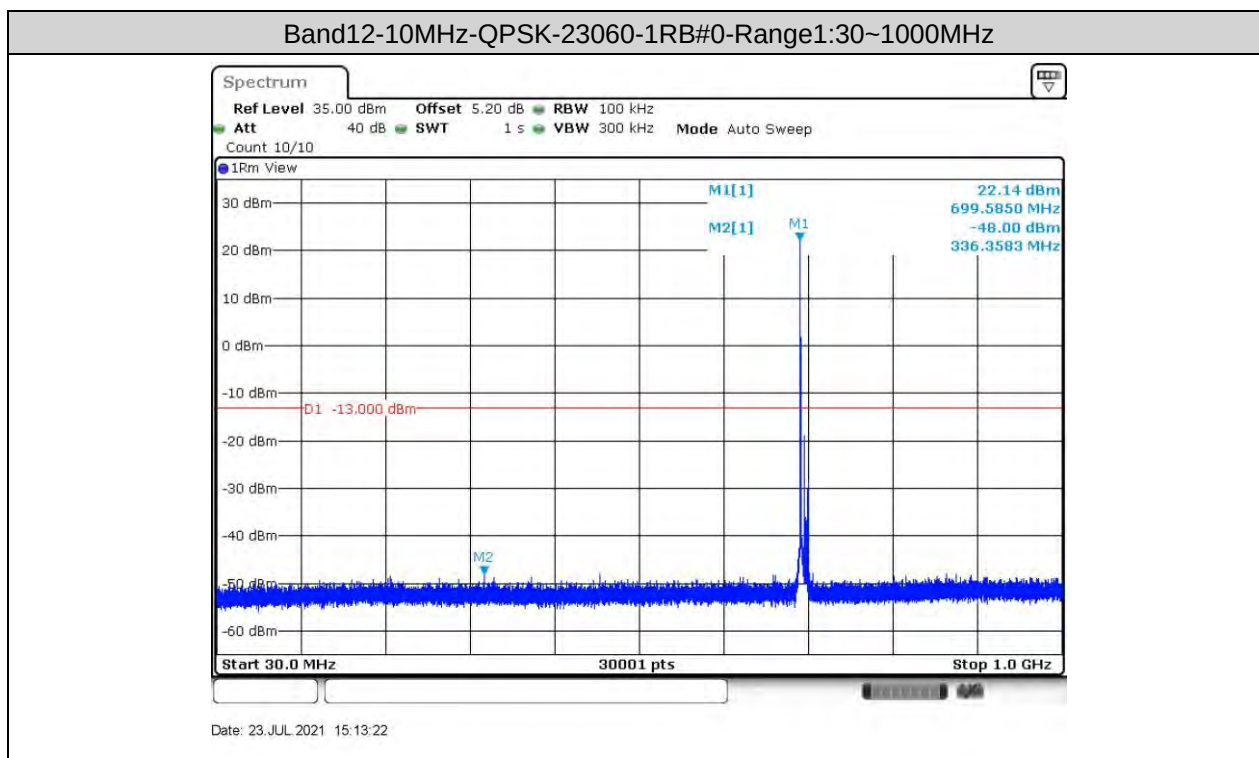
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots

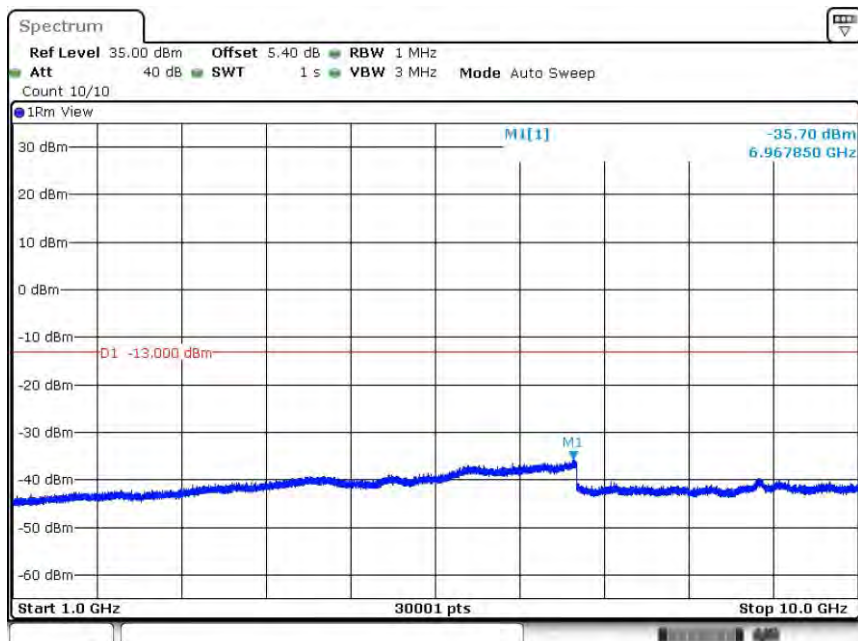


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Shenzhen Branch Testing Center (CCC Laboratory)

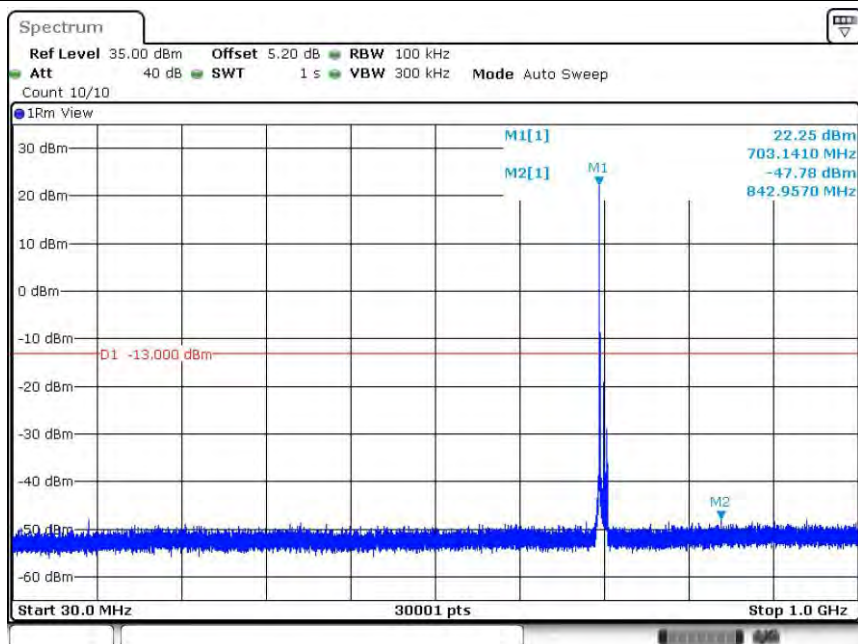
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Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 15:13:38

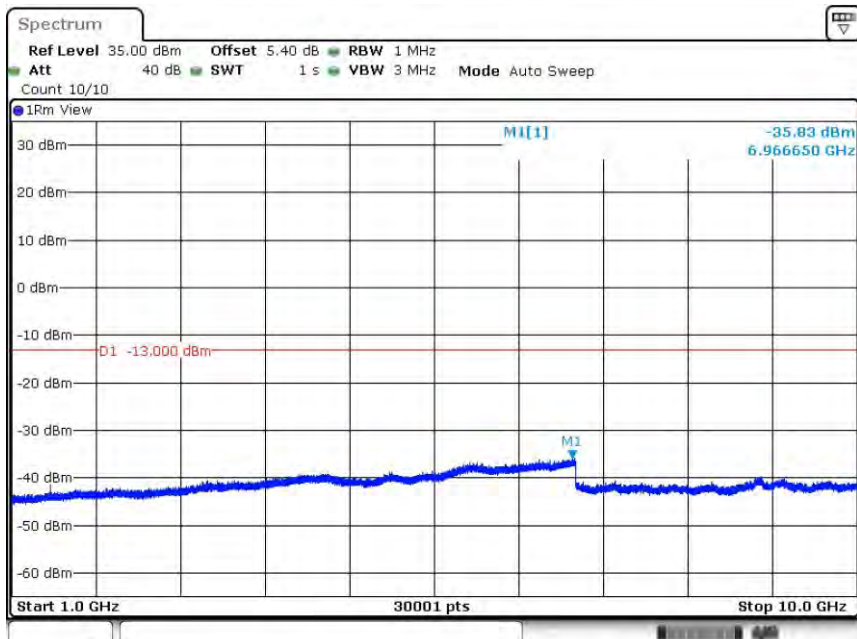
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Date: 23 JUL 2021 15:14:44

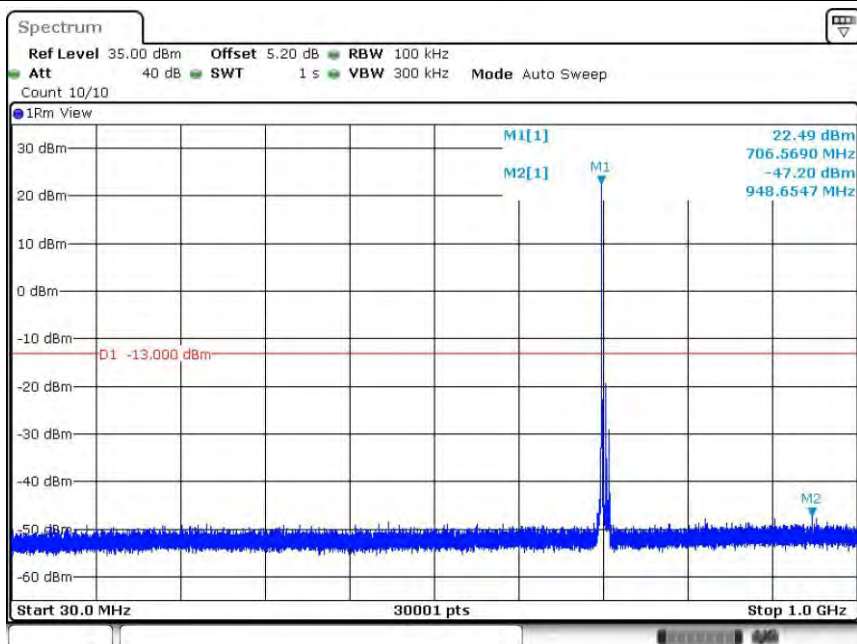


Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 15:15:00

Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



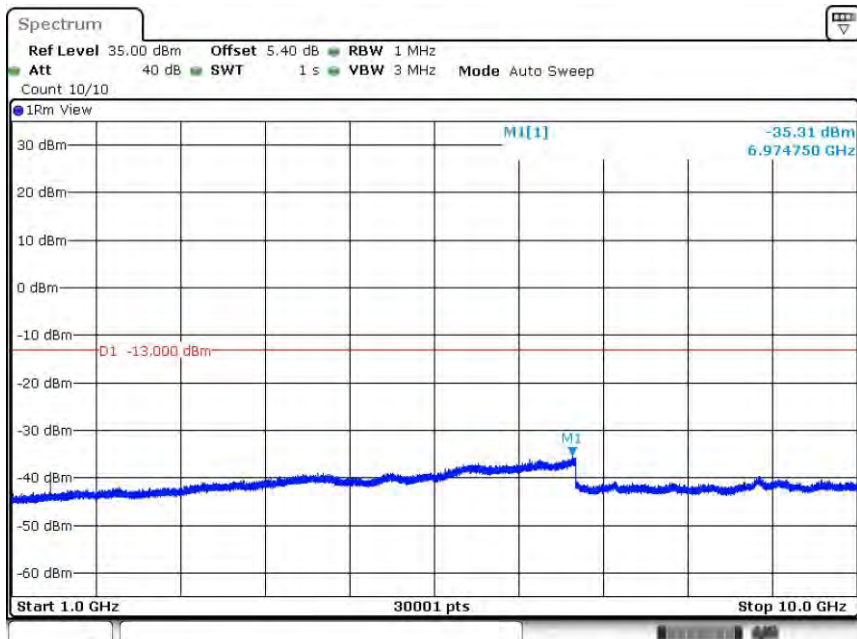
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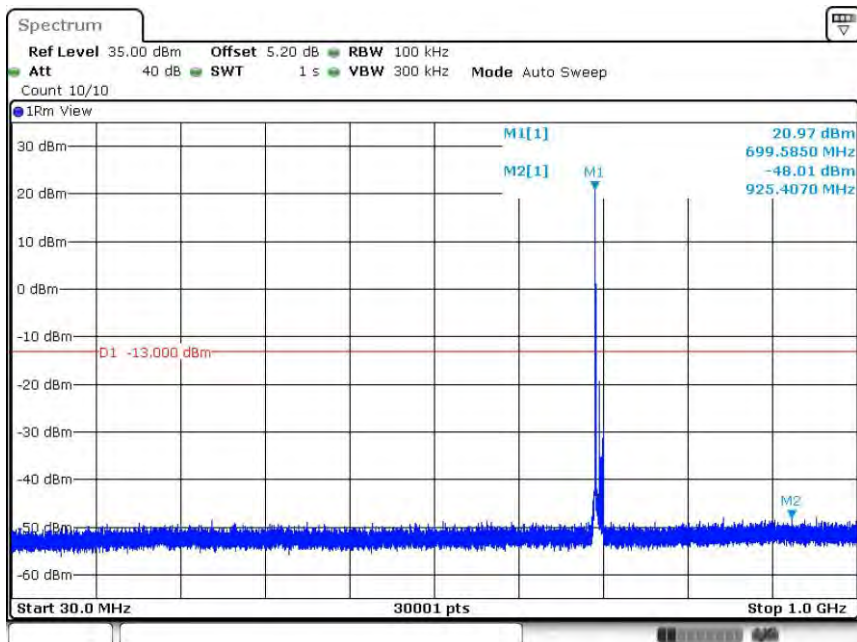
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Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 15:16:23

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



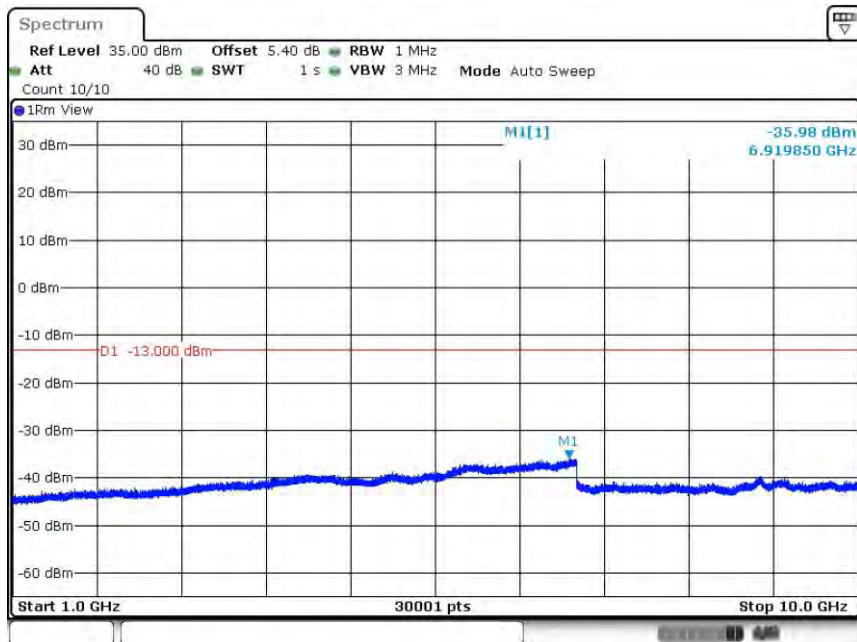
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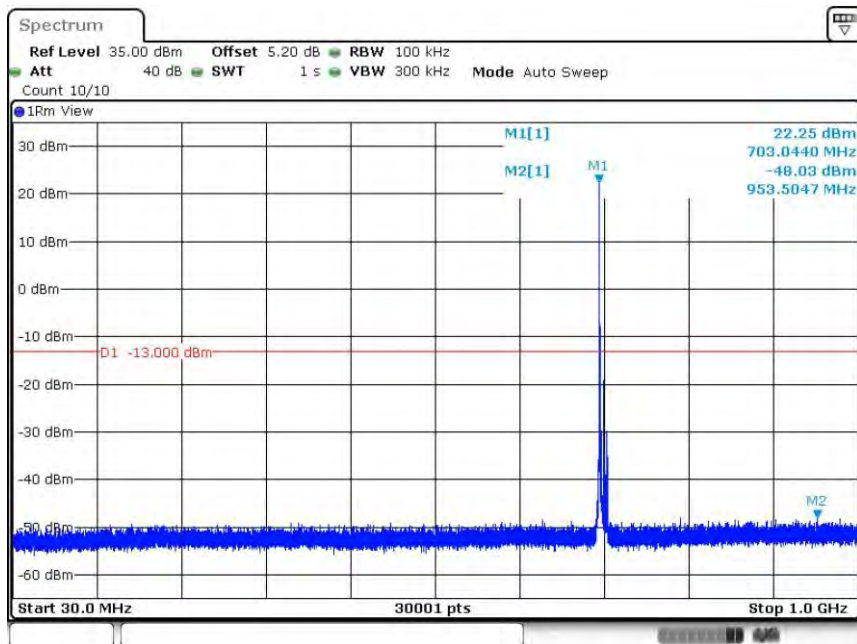
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Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 15:14:19

Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



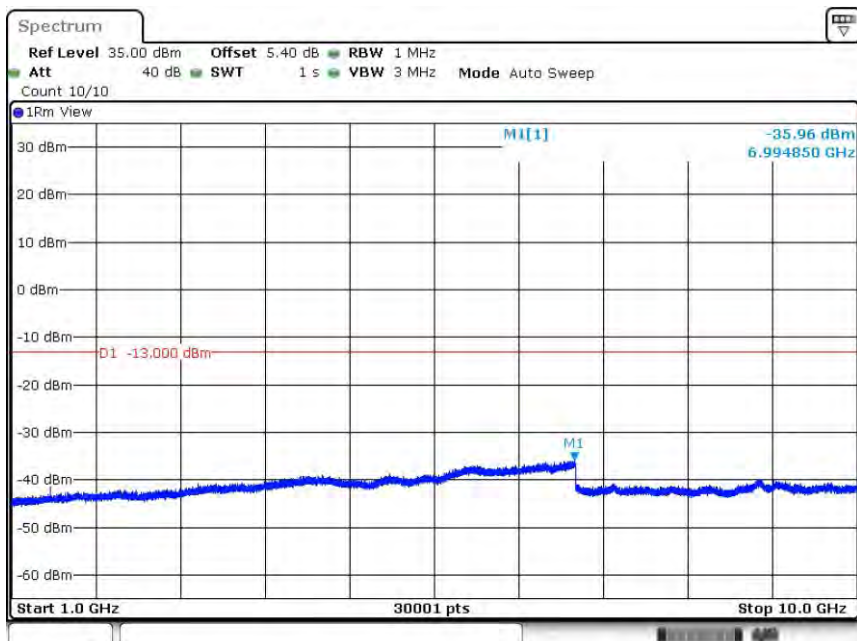
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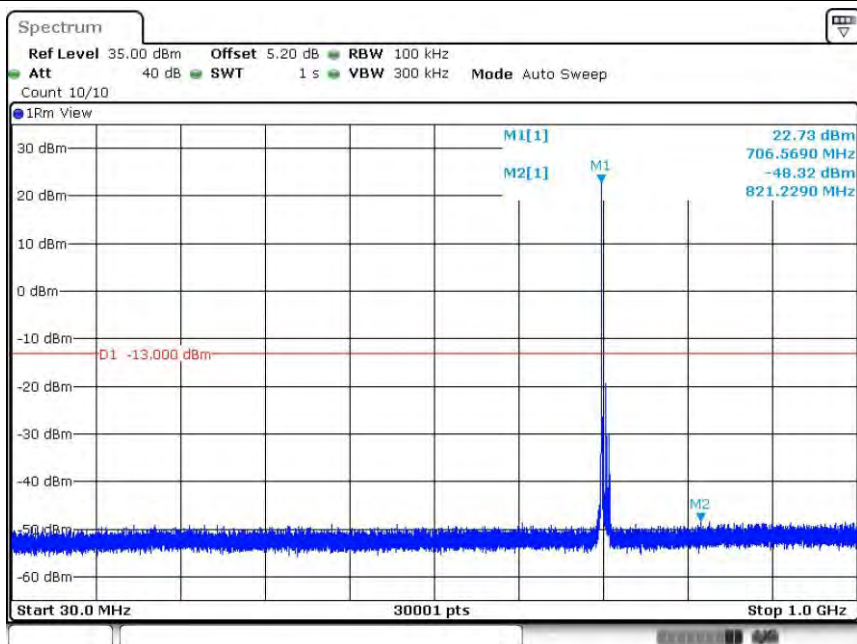
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Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 23 JUL 2021 15:15:41

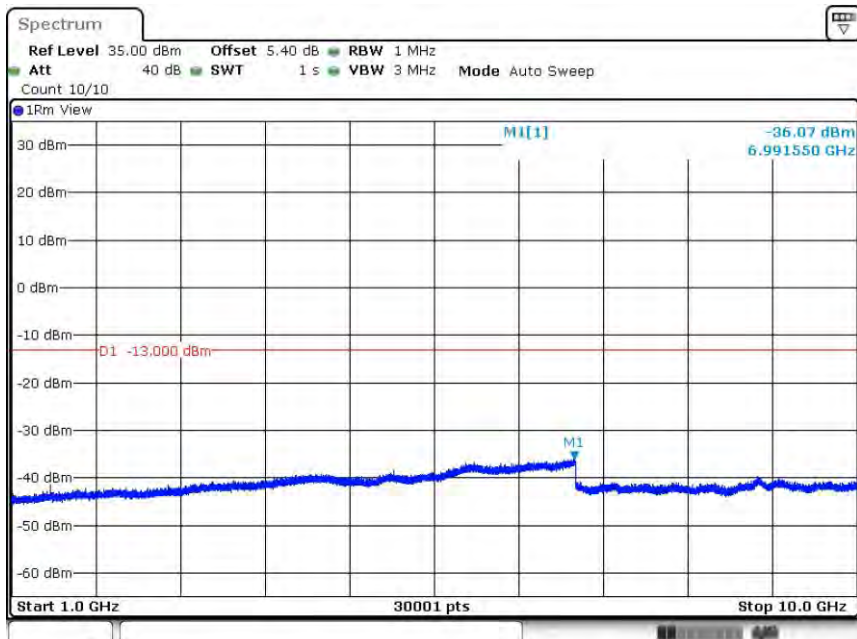
Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



Date: 23 JUL 2021 15:16:48



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



Date: 23 JUL 2021 15:17:04





7. Field Strength of Spurious Radiation

7.1. Test Band = _12 _TM1

7.1.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.2200	40.90	-48.98	-13.00	35.98	Horizontal
2	2098.6549	23.17	-64.80	-13.00	51.80	Horizontal
3	3497.7249	54.79	-62.76	-13.00	49.76	Horizontal
4	4750.4375	50.46	-62.88	-13.00	49.88	Horizontal
5	6368.9184	48.47	-59.35	-13.00	46.35	Horizontal
6	8407.0704	47.67	-54.60	-13.00	41.60	Horizontal



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7.2. Test Band = _12_ TM1

7.2.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.2200	36.90	-52.98	-13.00	39.98	Vertical
2	1975.7488	21.66	-66.65	-13.00	53.65	Vertical
3	2969.2985	22.12	-63.53	-13.00	50.53	Vertical
4	3608.3304	52.64	-65.23	-13.00	52.23	Vertical
5	4197.7599	52.58	-63.15	-13.00	50.15	Vertical
6	6267.7634	49.29	-58.90	-13.00	45.90	Vertical



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7.3. Test Band = _12_ TM1

7.3.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	39.53	-50.32	-13.00	37.32	Horizontal
2	2109.3555	28.33	-59.70	-13.00	46.70	Horizontal
3	3515.2258	54.36	-63.32	-13.00	50.32	Horizontal
4	5522.5761	49.22	-61.04	-13.00	48.04	Horizontal
5	7761.2881	46.38	-57.06	-13.00	44.06	Horizontal
6	9029.0515	46.56	-54.04	-13.00	41.04	Horizontal



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7.4. Test Band = _12_ TM1

7.4.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	37.14	-52.71	-13.00	39.71	Vertical
2	1942.0471	30.61	-57.69	-13.00	44.69	Vertical
3	3330.4165	52.33	-66.27	-13.00	53.27	Vertical
4	4292.6146	51.23	-64.47	-13.00	51.47	Vertical
5	5693.3847	48.44	-60.67	-13.00	47.67	Vertical
6	8219.1110	46.44	-56.23	-13.00	43.23	Vertical



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7.5. Test Band = _12_ TM1

7.5.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1059.9030	27.67	-62.63	-13.00	49.63	Horizontal
2	1413.2207	40.03	-49.79	-13.00	36.79	Horizontal
3	2119.8560	29.12	-58.98	-13.00	45.98	Horizontal
4	3533.0767	56.25	-61.64	-13.00	48.64	Horizontal
5	5173.2587	48.96	-63.03	-13.00	50.03	Horizontal
6	7828.8414	47.48	-55.63	-13.00	42.63	Horizontal



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7.6. Test Band = _12_ TM1

7.6.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.2207	35.17	-54.65	-13.00	41.65	Vertical
2	1941.2471	29.99	-58.31	-13.00	45.31	Vertical
3	2824.2912	21.50	-64.59	-13.00	51.59	Vertical
4	4448.3724	50.60	-64.08	-13.00	51.08	Vertical
5	7476.7238	48.30	-55.56	-13.00	42.56	Vertical
6	9993.3497	46.34	-52.53	-13.00	39.53	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	0.20	0.000284	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-1.50	-0.002131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-1.70	-0.002403	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.90	-0.001272	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.20	-0.001688	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.20	-0.003094	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-2.80	-0.003977	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-2.30	-0.003267	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	0.90	0.001272	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	0.70	0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-0.70	-0.000985	±2.5	PASS





8.2. Frequency Vs Temperature

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	-30	-2.80	-0.003977	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-2.70	-0.003835	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-1.20	-0.001705	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-3.00	-0.004261	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-3.00	-0.004261	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.80	-0.002557	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-2.20	-0.003125	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.10	-0.001555	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.40	-0.001979	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.30	-0.001837	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.90	-0.001272	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.40	-0.003376	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-2.00	-0.002841	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-1.60	-0.002273	±2.5	PASS



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Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-2.20	-0.003125	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-1.50	-0.002131	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-2.20	-0.003125	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-1.80	-0.002557	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-2.40	-0.003409	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-2.20	-0.003125	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-0.90	-0.001272	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	1.10	0.001555	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-1.40	-0.001969	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-0.90	-0.001266	±2.5	PASS

The End



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