

# Appendix B

## E-UTRA Band 12



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.21	15.66	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.15	15.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.01	15.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.35	15.80	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	15.83	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.30	15.75	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.28	14.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.14	15.59	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.35	15.80	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.24	15.69	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.26	15.71	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.26	15.71	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.23	15.68	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.29	14.74	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.27	15.72	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.25	15.70	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.27	15.72	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.24	15.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.35	15.80	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.21	15.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.38	14.83	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.43	13.88	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.38	13.83	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.18	13.63	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.53	13.98	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#1	21.20	13.65	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.10	13.55	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.39	12.84	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.89	14.34	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.51	13.96	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.30	13.75	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.29	13.74	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#1	21.45	13.90	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.13	13.58	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.59	13.04	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.95	14.40	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.38	13.83	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.68	14.13	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	21.20	13.65	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#1	21.35	13.80	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	21.23	13.68	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.64	13.09	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.68	15.13	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.31	14.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.32	14.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.39	14.84	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.20	14.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.32	14.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.56	14.01	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.86	15.31	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.50	14.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.19	14.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.30	14.75	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.37	14.82	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.31	14.76	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.46	13.91	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.81	15.26	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.62	15.07	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.71	15.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.32	14.77	34.77	PASS



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Band12	1.4MHz	16QAM	23173	3RB#1	22.38	14.83	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.34	14.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.49	13.94	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.39	15.84	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.24	15.69	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.34	15.79	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.37	14.82	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.45	14.90	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.31	14.76	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.46	14.91	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.23	15.68	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.22	15.67	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.40	15.85	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.36	14.81	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.45	14.90	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.41	14.86	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.26	14.71	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.36	15.81	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.26	15.71	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.32	15.77	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.40	14.85	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.47	14.92	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.35	14.80	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.34	14.79	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.54	13.99	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.30	13.75	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.42	13.87	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#0	20.50	12.95	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	20.41	12.86	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.50	12.95	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.25	12.70	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.72	14.17	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.88	14.33	34.77	PASS



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Band12	3MHz	64QAM	23095	1RB#8	21.71	14.16	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	20.49	12.94	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	20.34	12.79	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	20.44	12.89	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.35	12.80	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.58	14.03	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.09	14.54	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.52	13.97	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	20.33	12.78	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	20.71	13.16	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.52	12.97	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.22	12.67	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.62	15.07	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.55	15.00	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.47	14.92	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.41	13.86	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.49	13.94	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.46	13.91	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.46	13.91	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.95	15.40	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.77	15.22	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.61	15.06	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.36	13.81	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.53	13.98	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.53	13.98	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.43	13.88	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.80	15.25	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.00	15.45	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.76	15.21	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.33	13.78	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.57	14.02	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.50	13.95	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.46	13.91	34.77	PASS



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Band12	5MHz	QPSK	23035	1RB#24	23.17	15.62	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.37	15.82	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.39	15.84	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.47	14.92	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.44	14.89	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.59	15.04	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.55	15.00	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.24	15.69	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.52	15.97	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.54	15.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.33	14.78	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.42	14.87	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.53	14.98	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.51	14.96	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.38	15.83	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.34	15.79	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.39	15.84	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.55	15.00	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.59	15.04	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.44	14.89	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.37	14.82	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.50	13.95	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.52	13.97	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.54	13.99	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	20.22	12.67	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.56	13.01	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	20.56	13.01	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.22	12.67	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.78	14.23	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.63	14.08	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.53	13.98	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#13	20.12	12.57	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	20.31	12.76	34.77	PASS



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Band12	5MHz	64QAM	23095	12RB#6	20.29	12.74	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.31	12.76	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.86	14.31	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.86	14.31	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.82	14.27	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.42	12.87	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.65	13.10	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.33	12.78	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.22	12.67	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.54	14.99	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.69	15.14	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.32	14.77	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.49	13.94	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.51	13.96	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.48	13.93	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.55	14.00	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.28	14.73	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.98	15.43	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.70	15.15	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.72	14.17	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.48	13.93	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.56	14.01	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.37	13.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.84	15.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.52	14.97	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.43	14.88	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.48	13.93	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.55	14.00	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.48	13.93	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.49	13.94	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.68	16.13	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.64	16.09	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.62	16.07	34.77	PASS



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Band12	10MHz	QPSK	23060	25RB#12	22.58	15.03	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.68	15.13	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.66	15.11	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.96	15.41	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.45	15.90	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.46	15.91	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.84	16.29	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.50	14.95	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.51	14.96	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.86	15.31	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.74	15.19	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.43	15.88	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.75	16.20	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.81	16.26	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.69	15.14	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.63	15.08	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.67	15.12	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.47	14.92	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.51	13.96	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.67	14.12	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.51	13.96	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	20.53	12.98	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	20.52	12.97	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#12	20.48	12.93	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.55	13.00	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.74	14.19	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.89	14.34	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.64	14.09	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	20.12	12.57	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#12	20.56	13.01	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#25	20.60	13.05	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.45	12.90	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.69	14.14	34.77	PASS



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Band12	10MHz	64QAM	23130	1RB#0	21.87	14.32	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.52	13.97	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	20.24	12.69	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	20.62	13.07	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#12	20.59	13.04	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.43	12.88	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.99	15.44	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.46	14.91	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.98	15.43	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.54	13.99	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.52	13.97	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.59	14.04	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.74	14.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.83	15.28	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.87	15.32	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.64	15.09	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.55	14.00	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.59	14.04	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.89	14.34	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.78	14.23	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.14	15.59	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.01	15.46	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.20	15.65	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.63	14.08	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.75	14.20	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.69	14.14	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.38	13.83	34.77	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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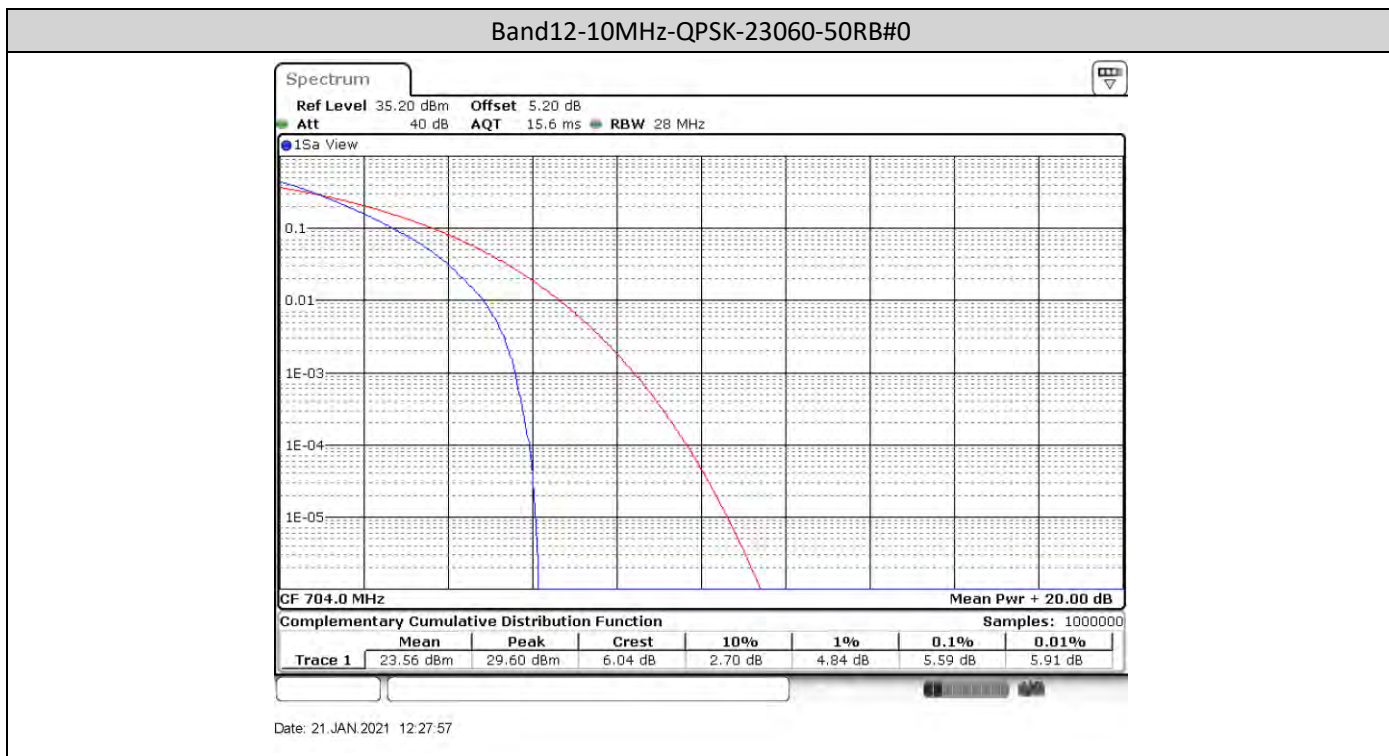


## 2. Peak-to-Average Ratio (CCDF)

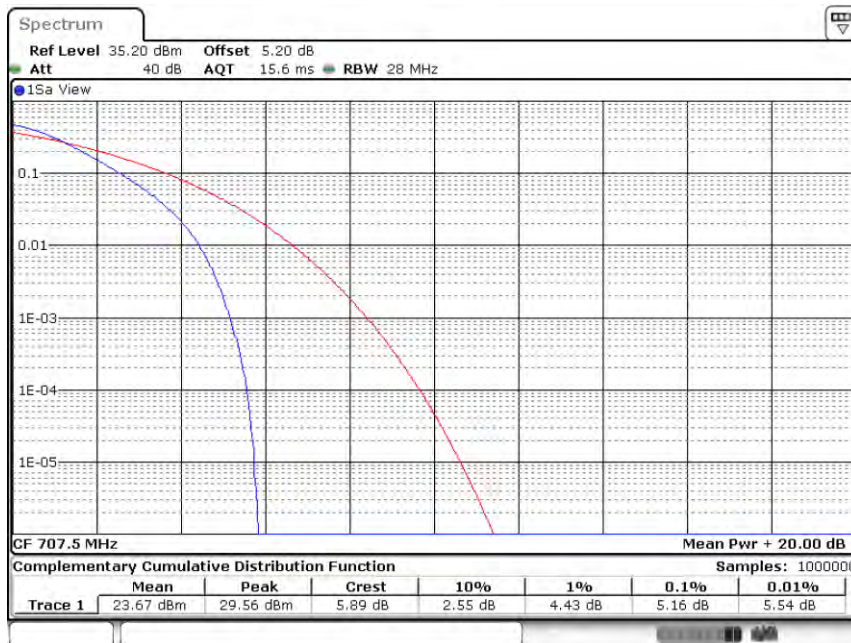
### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.59	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.39	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	7.10	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.87	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.90	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.38	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.17	13	PASS

### 2.2. Test Plots

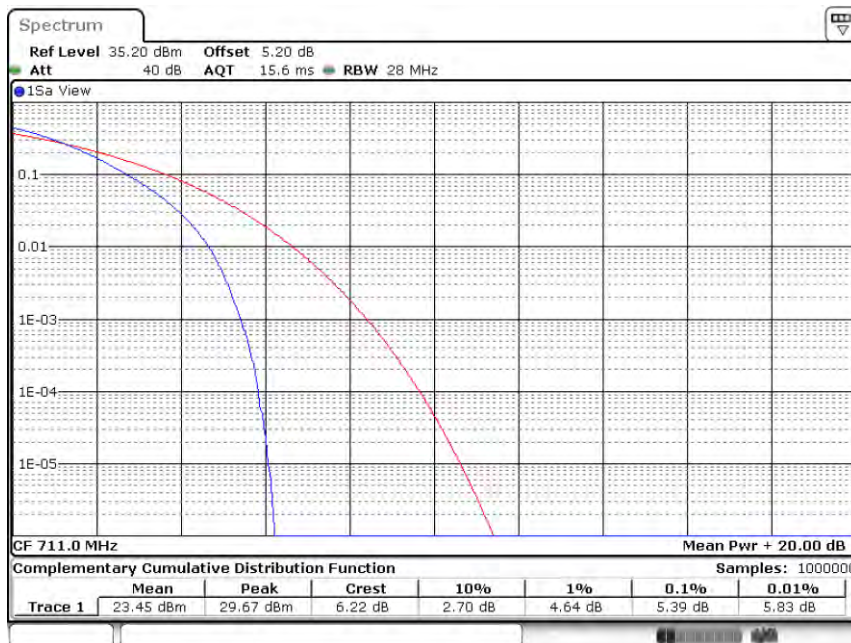


**Band12-10MHz-QPSK-23095-50RB#0**



Date: 21 JAN 2021 12:28:20

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

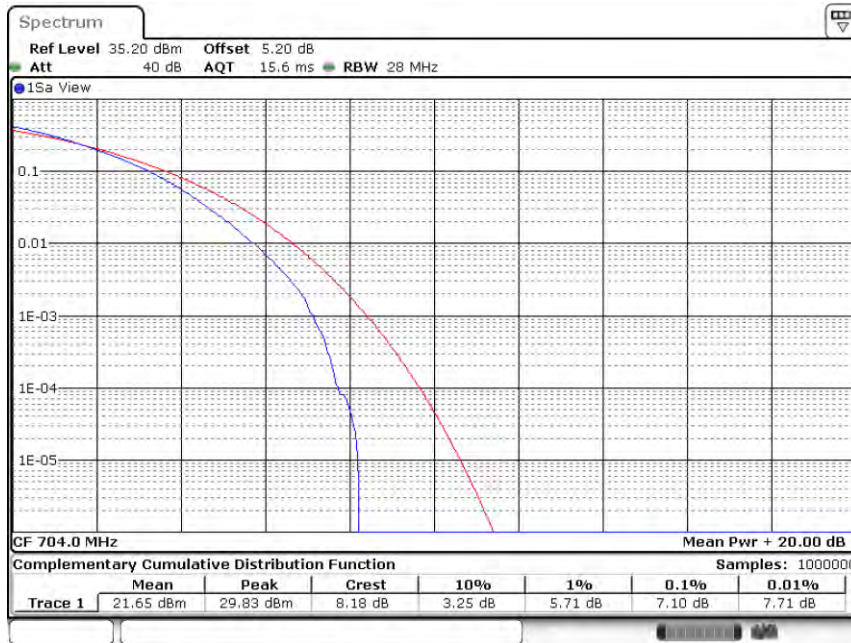


Date: 21 JAN 2021 12:28:43



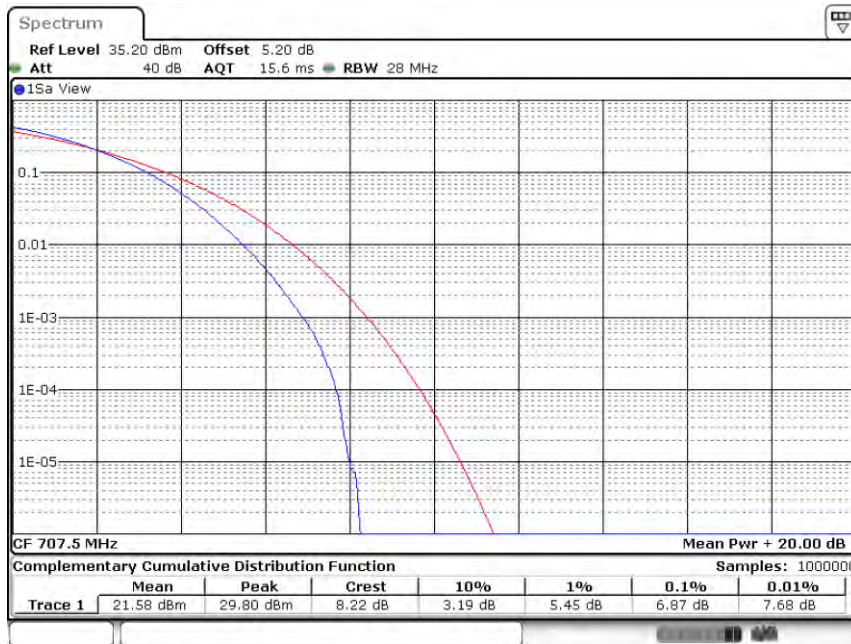
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**Band12-10MHz-64QAM-23060-50RB#0**



Date: 21 JAN 2021 14:13:53

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

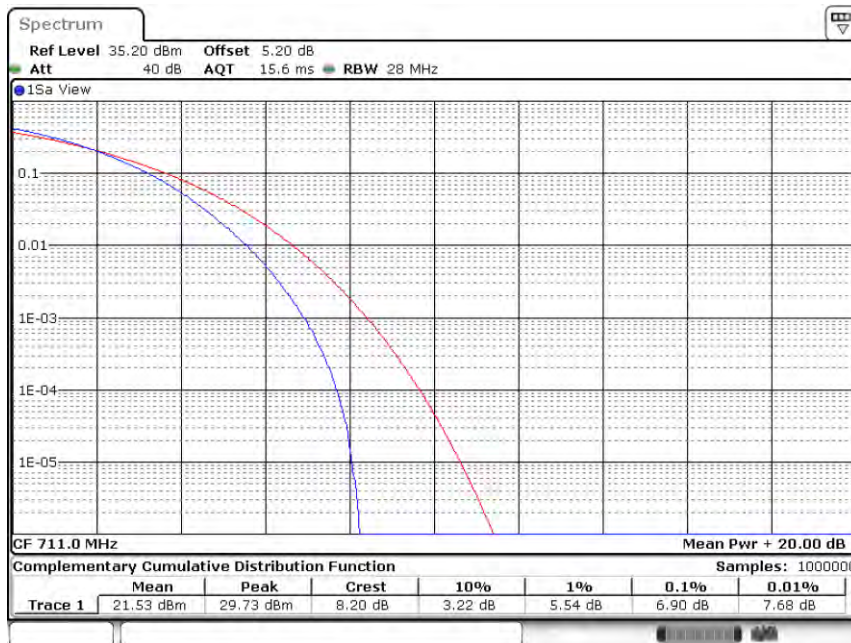


Date: 21 JAN 2021 14:14:04



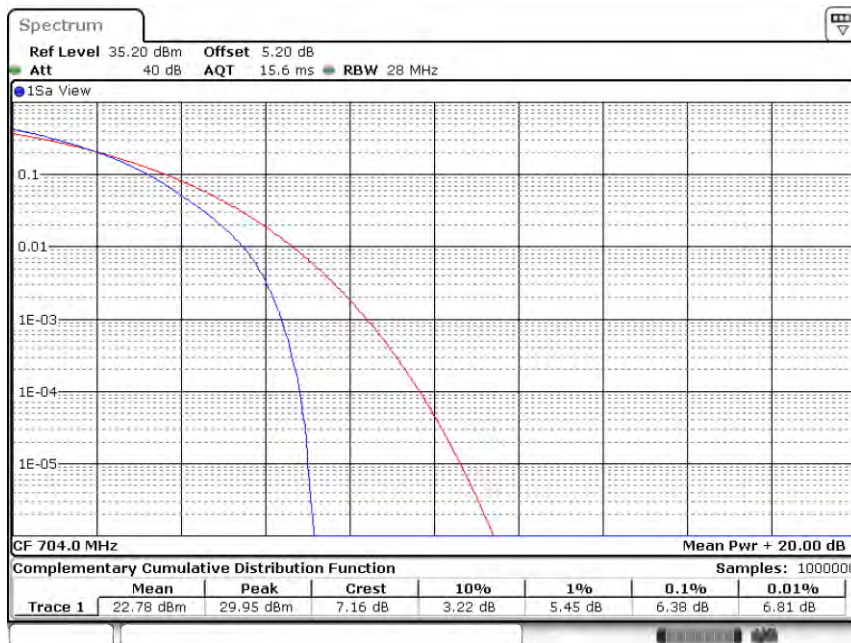
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**Band12-10MHz-64QAM-23130-50RB#0**



Date: 21 JAN 2021 14:14:15

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

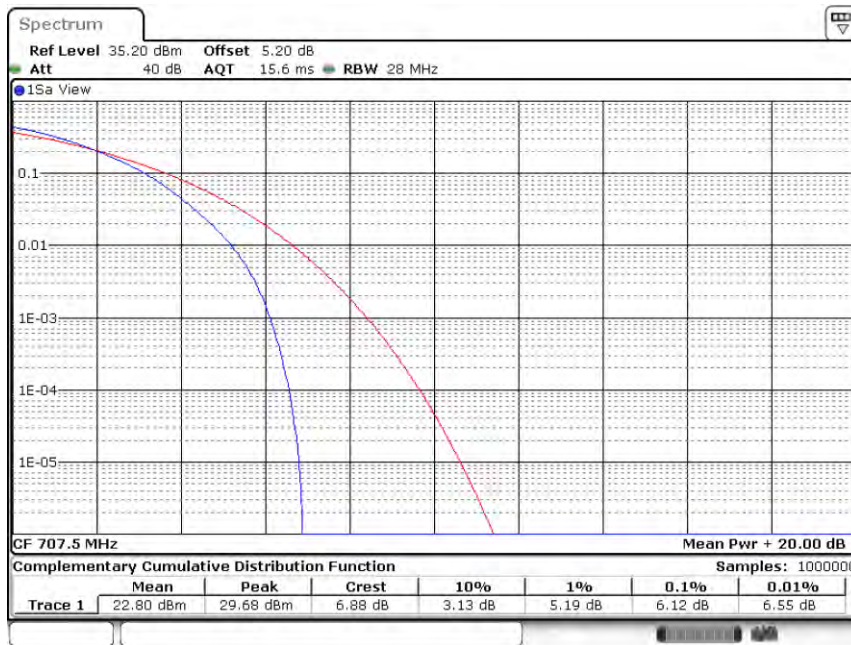


Date: 21 JAN 2021 12:28:09



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



Date: 21 JAN 2021 12:28:31

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



Date: 21 JAN 2021 12:28:55

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



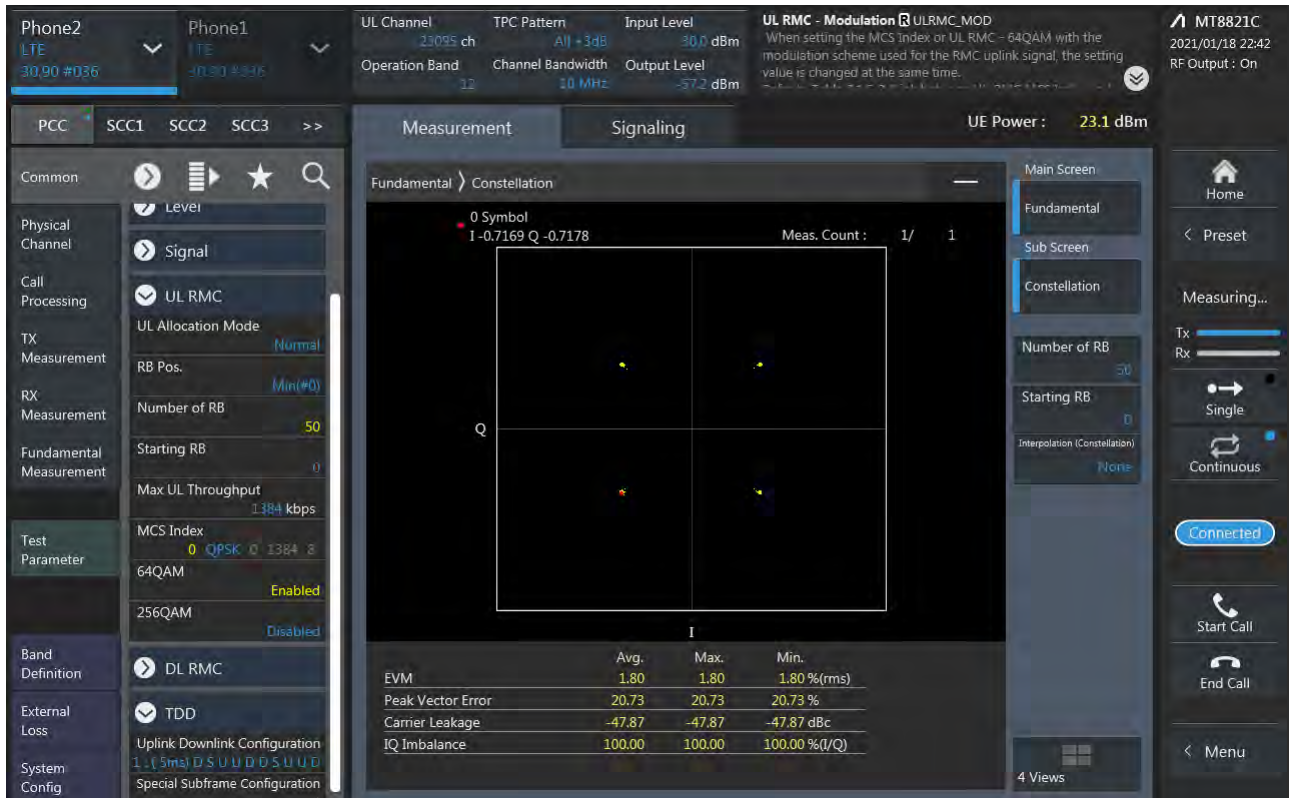
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



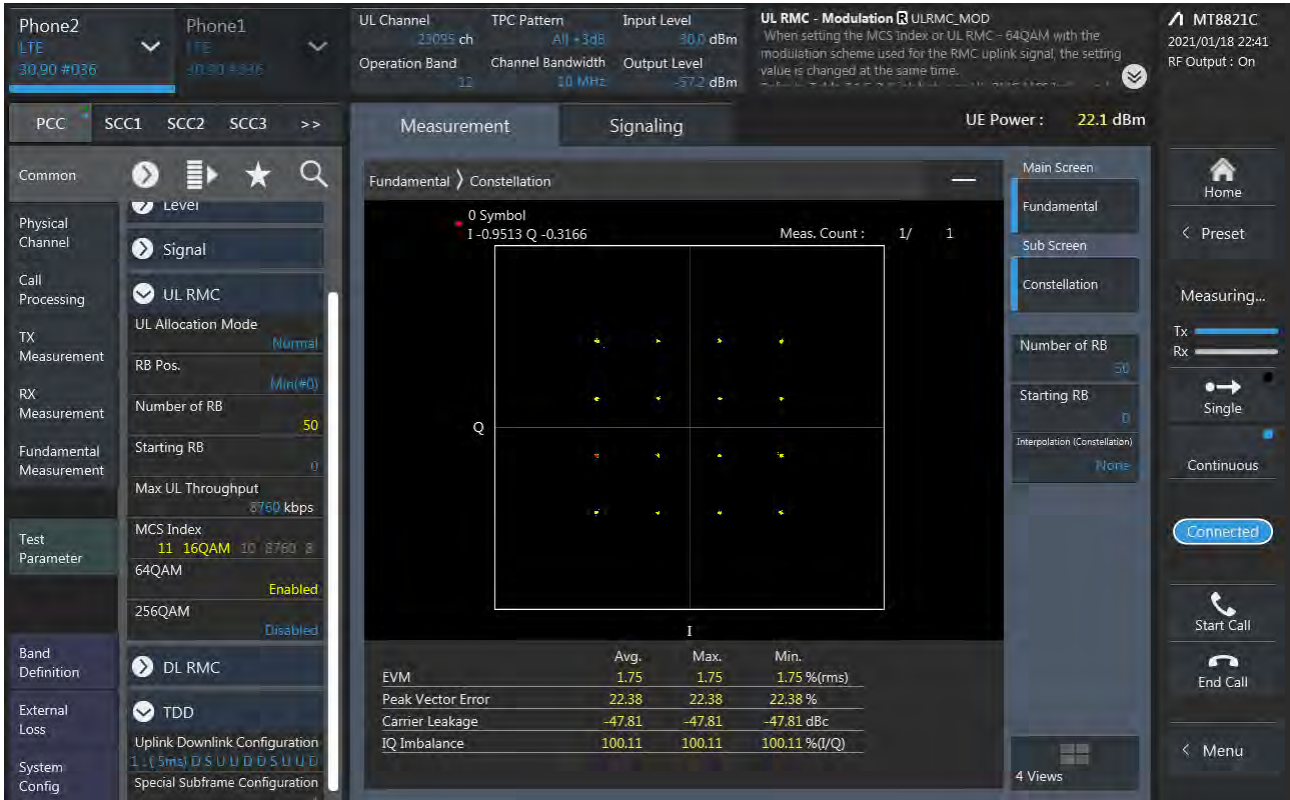
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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH



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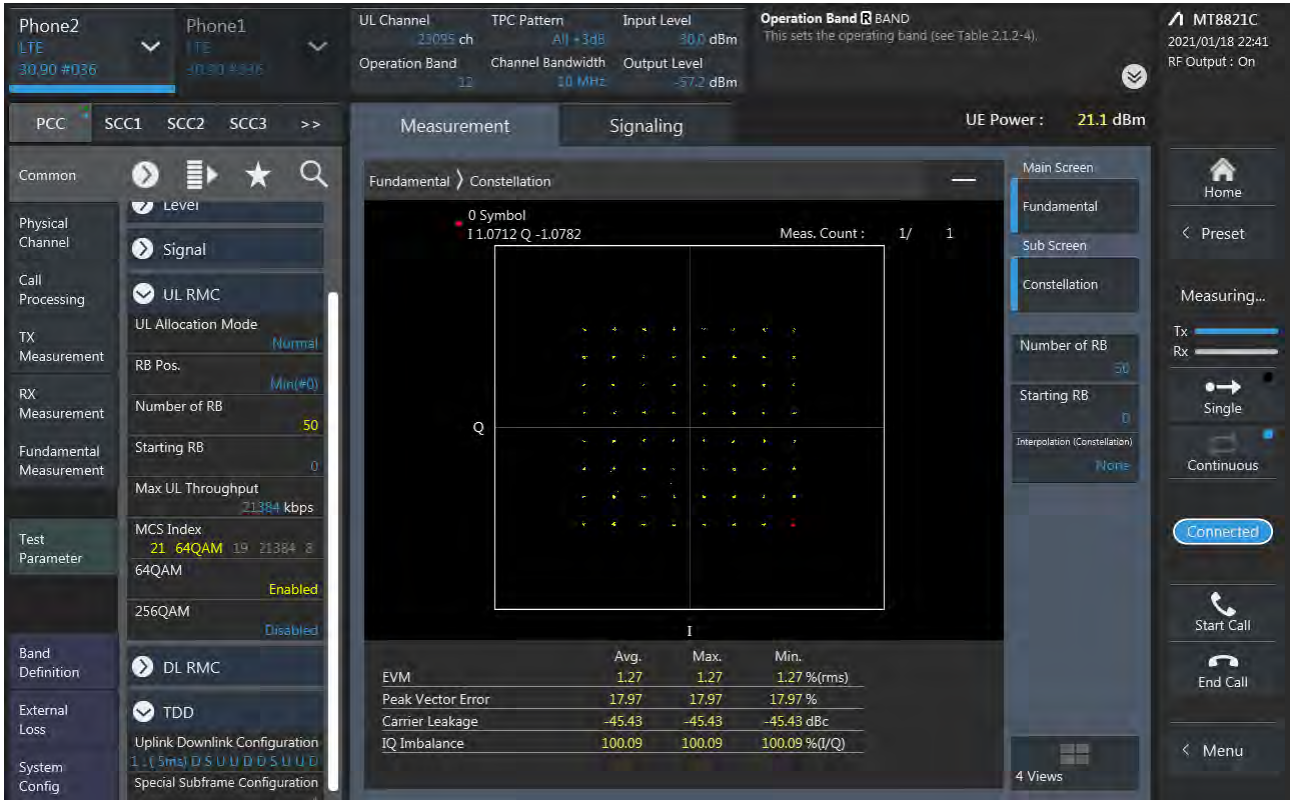
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Shenzhen Branch, Inspection & Testing Services Laboratory

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### 3.3. Test Mode = LTE /TM3 10MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.091	1.233	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.236	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.091	1.230	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.091	1.224	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.094	1.239	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.094	1.248	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.236	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.236	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.239	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.703	3.006	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	2.988	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.703	3.012	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.691	2.988	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.685	2.988	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.691	2.940	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.691	3.006	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	2.976	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	3.006	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.930	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.456	4.890	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	4.930	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.456	4.690	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.466	4.860	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.476	4.900	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	4.920	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.476	4.910	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	4.910	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.951	9.660	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.851	9.560	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.871	9.560	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.951	9.660	PASS



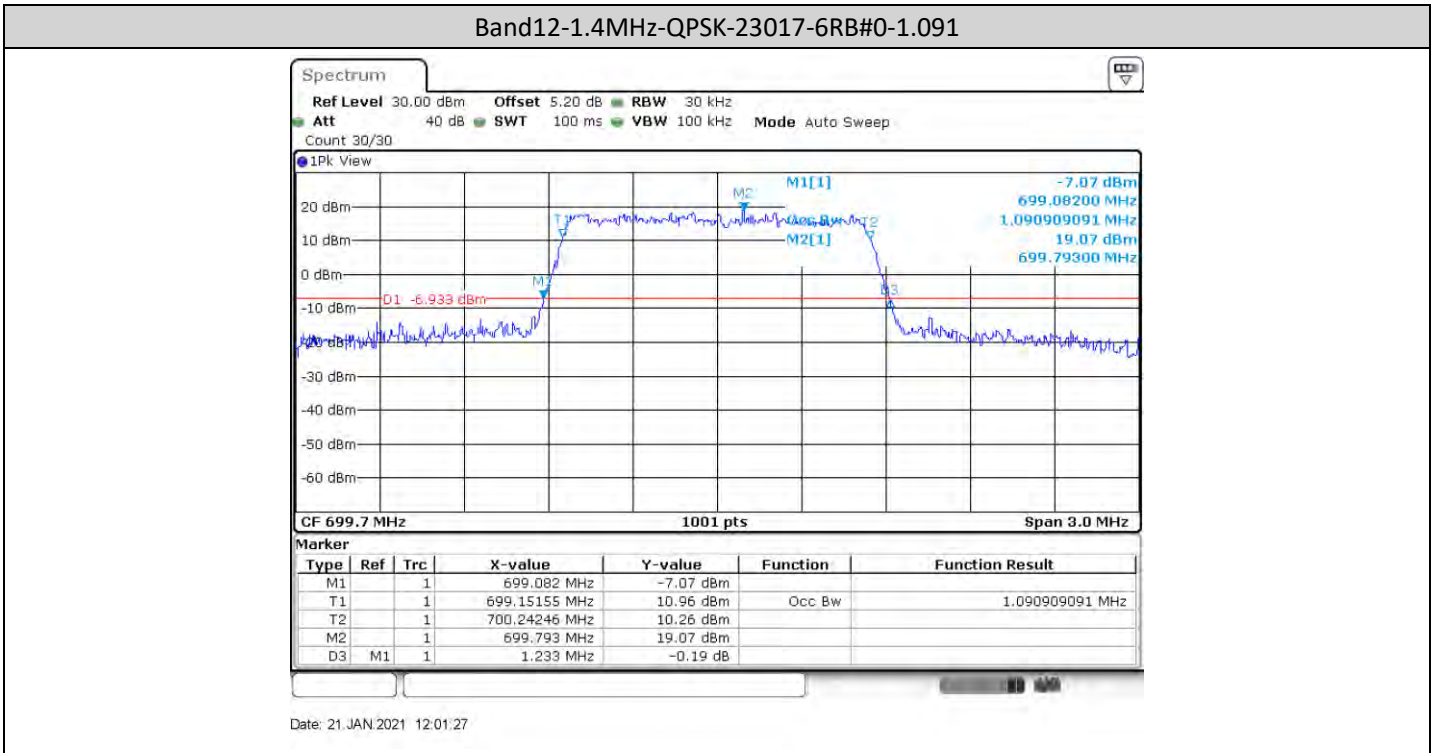
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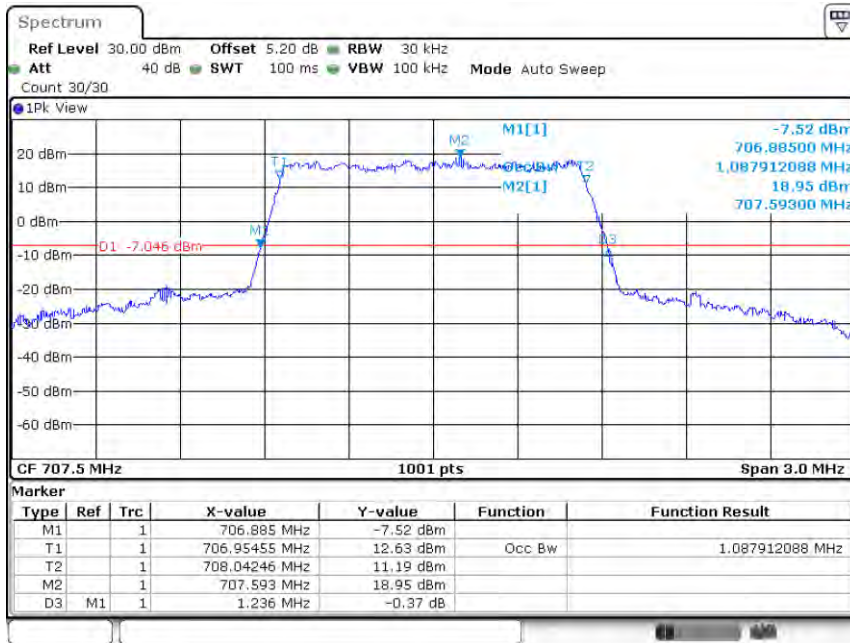
Band12	10MHz	64QAM	23095	50RB#0	8.871	9.540	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.891	9.500	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.951	9.720	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.871	9.560	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.891	9.580	PASS

## 4.2. Test Plots



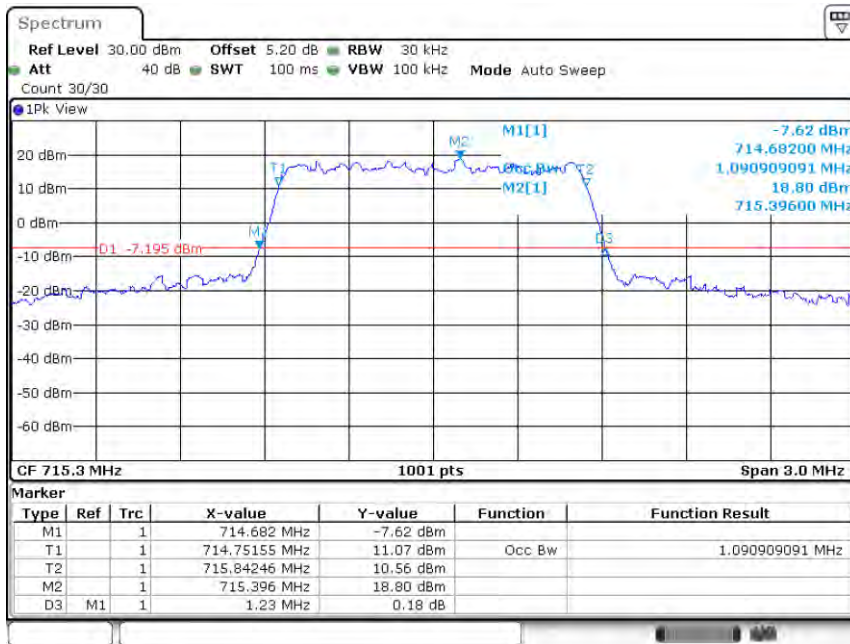
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**Band12-1.4MHz-QPSK-23095-6RB#0-1.088**



Date: 21. JAN 2021 12:01:53

**Band12-1.4MHz-QPSK-23173-6RB#0-1.091**

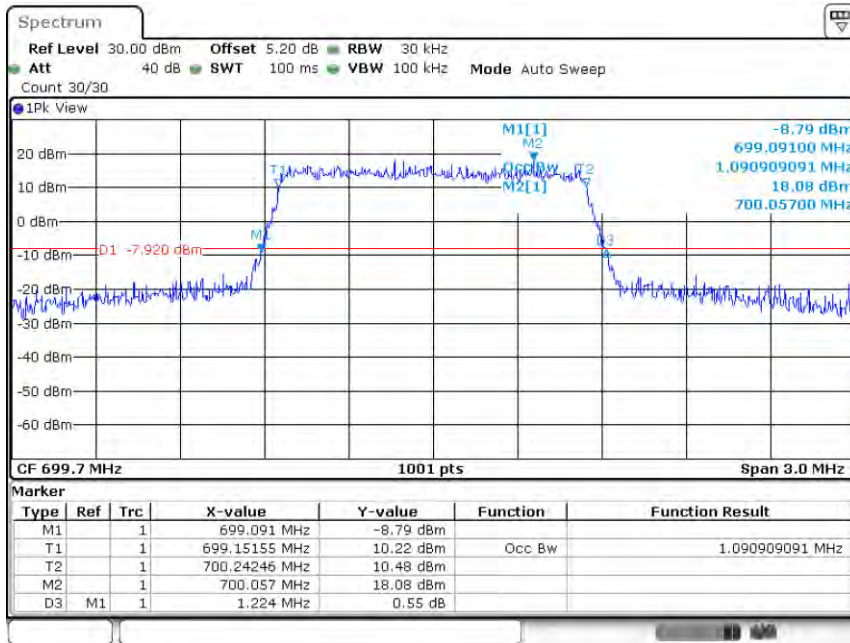


Date: 21. JAN 2021 12:02:18



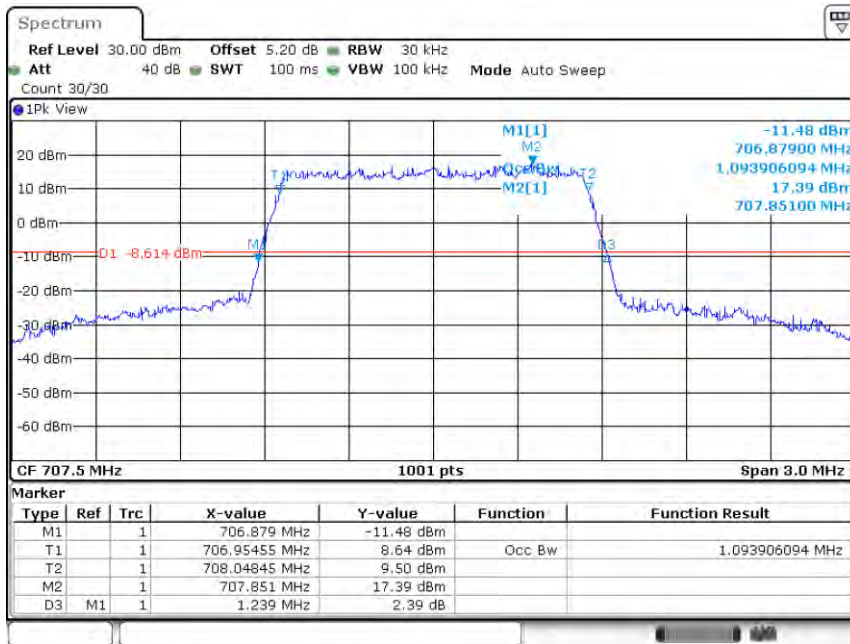
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**Band12-1.4MHz-64QAM-23017-6RB#0-1.091**



Date: 21. JAN 2021 13:59:15

**Band12-1.4MHz-64QAM-23095-6RB#0-1.094**



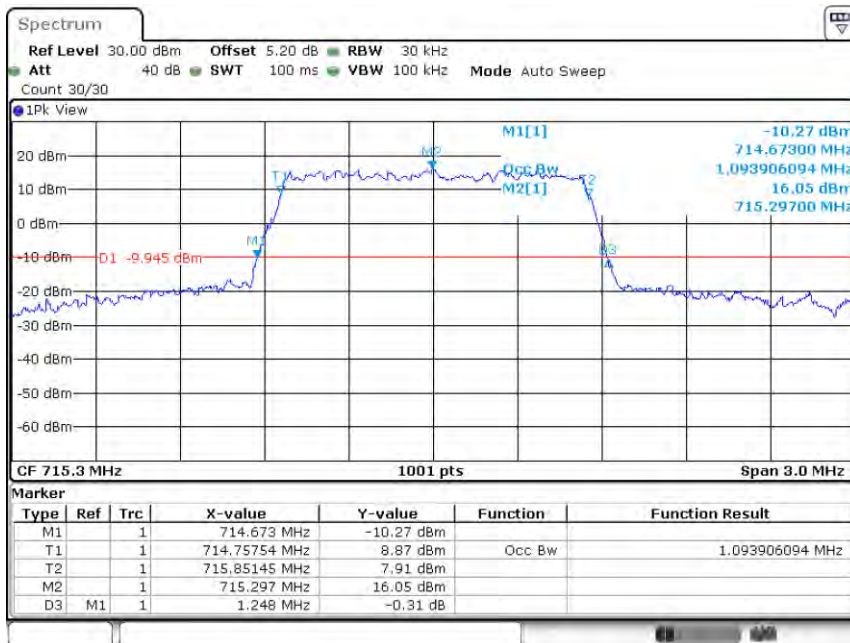
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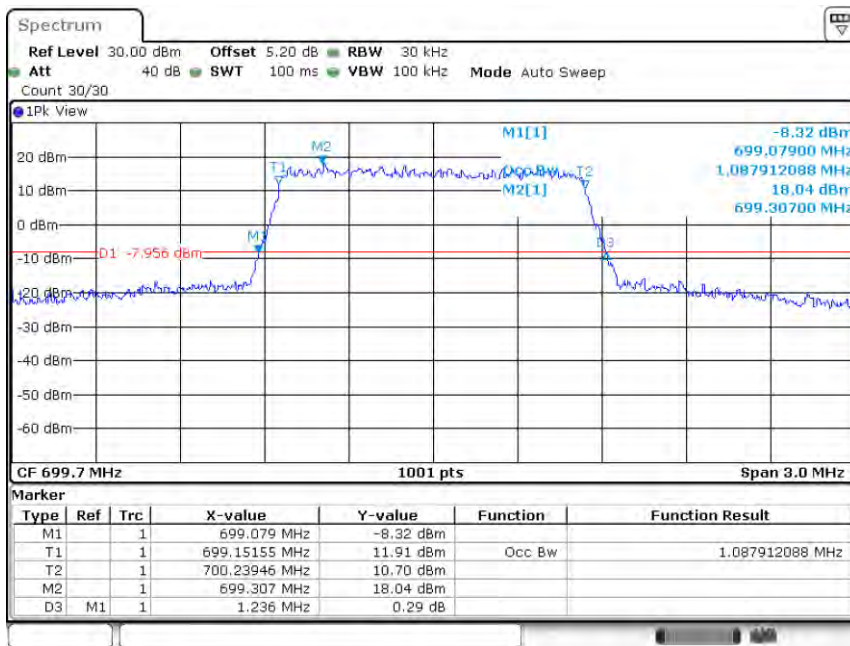


Band12-1.4MHz-64QAM-23173-6RB#0-1.094



Date: 21. JAN 2021 13:59:40

Band12-1.4MHz-16QAM-23017-6RB#0-1.088



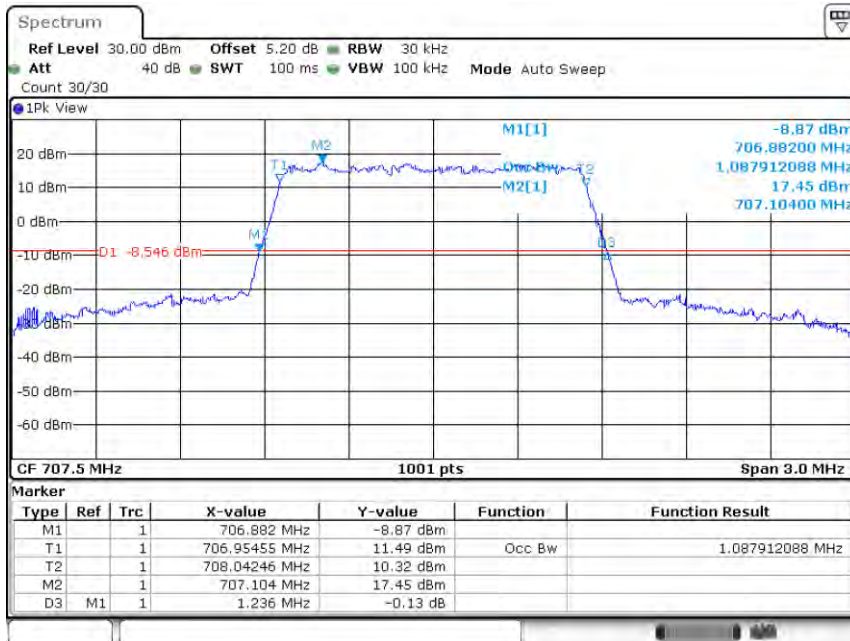
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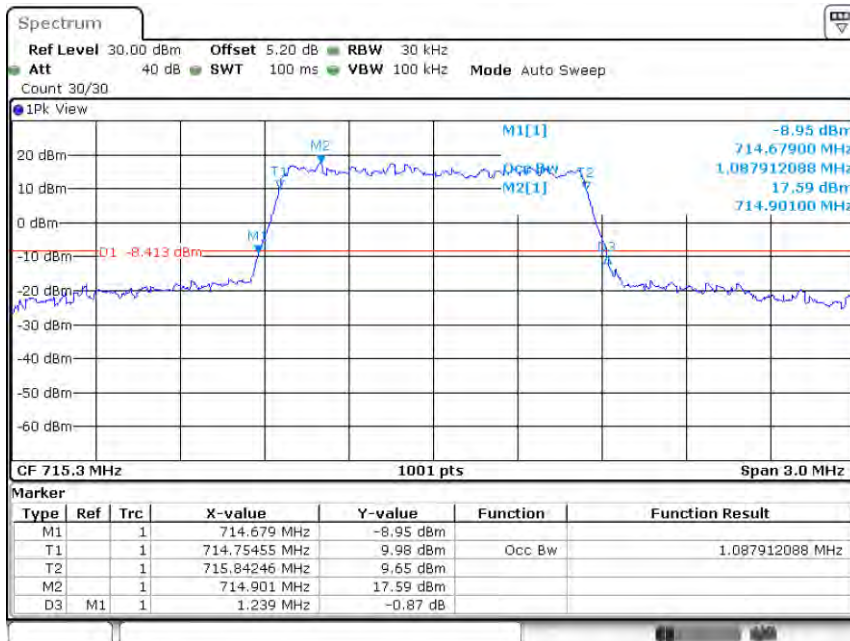


**Band12-1.4MHz-16QAM-23095-6RB#0-1.088**



Date: 21 JAN 2021 12:02:05

**Band12-1.4MHz-16QAM-23173-6RB#0-1.088**

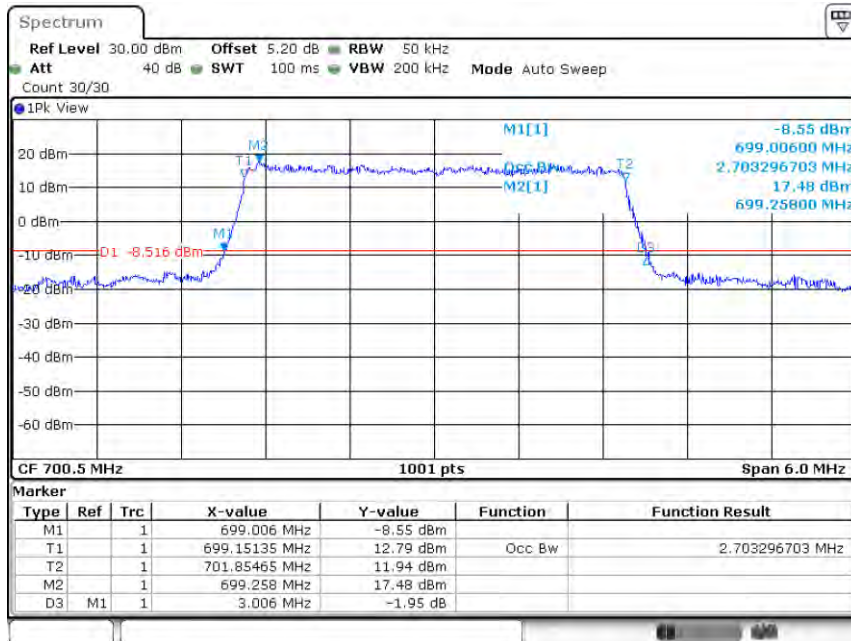


Date: 21 JAN 2021 12:02:31



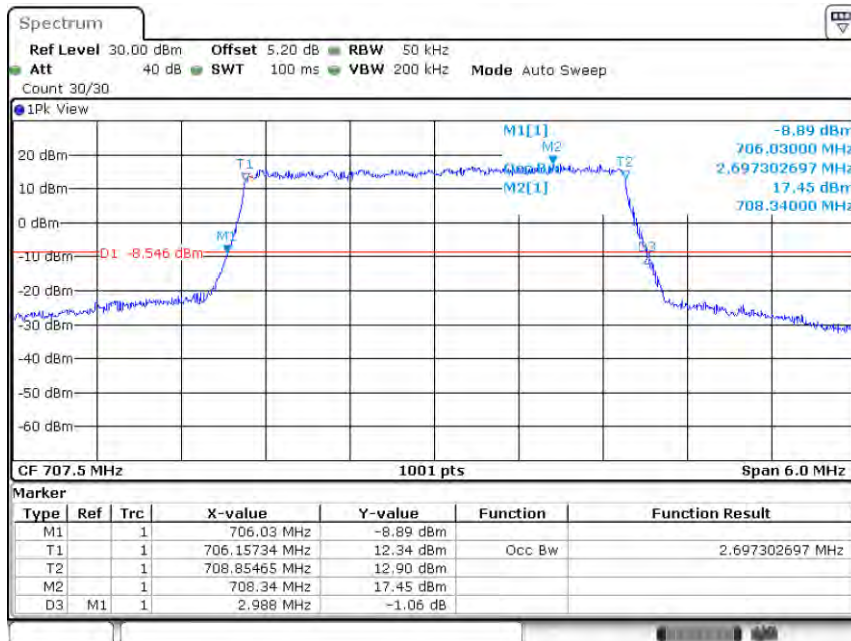
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**Band12-3MHz-QPSK-23025-15RB#0-2.703**



Date: 21 JAN 2021 12:02:48

**Band12-3MHz-QPSK-23095-15RB#0-2.697**

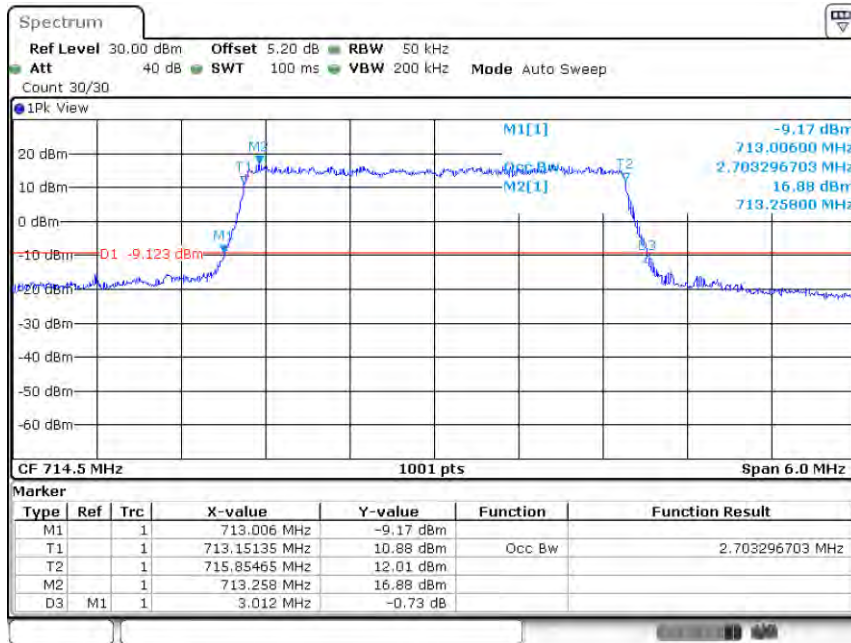


Date: 21 JAN 2021 12:03:14



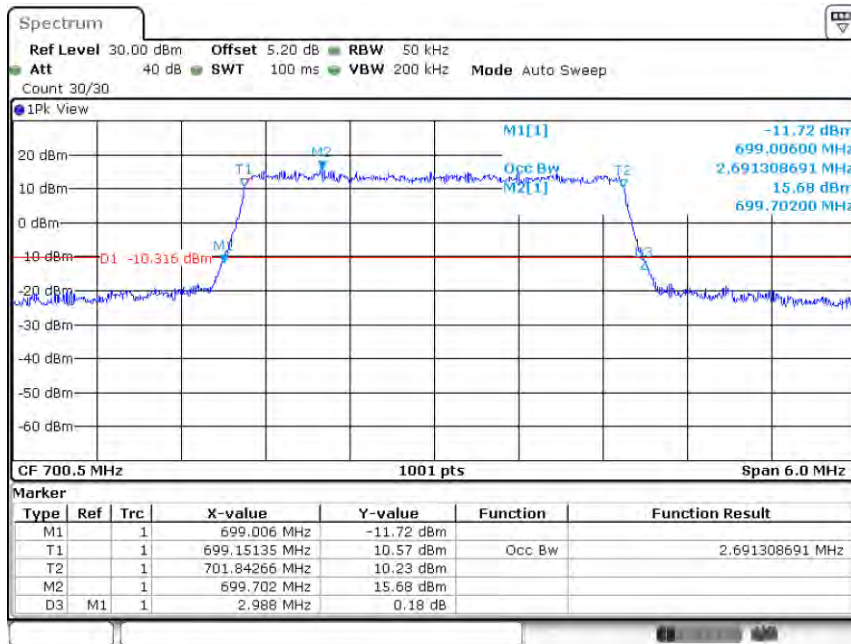
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**Band12-3MHz-QPSK-23165-15RB#0-2.703**



Date: 21. JAN 2021 12:03:40

**Band12-3MHz-64QAM-23025-15RB#0-2.691**



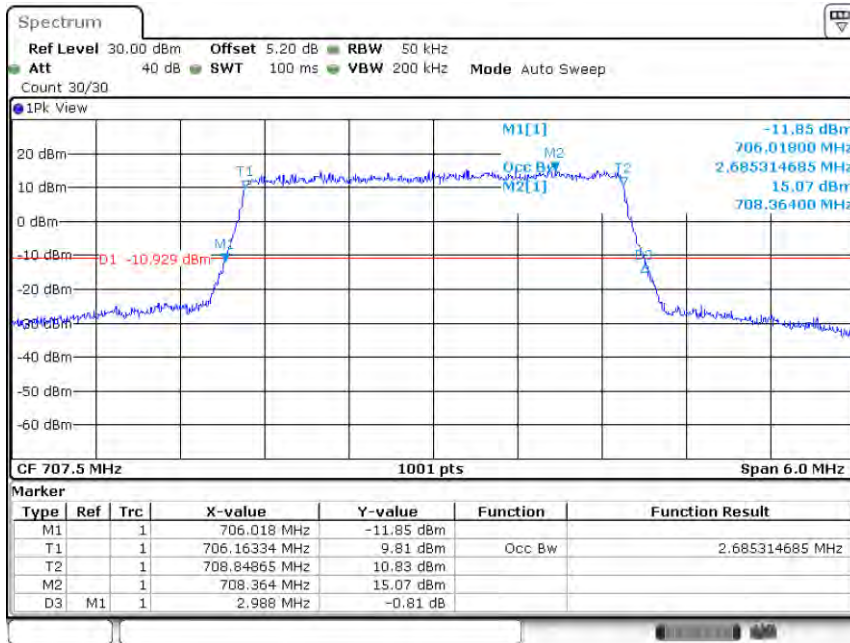
Date: 21. JAN 2021 13:59:58



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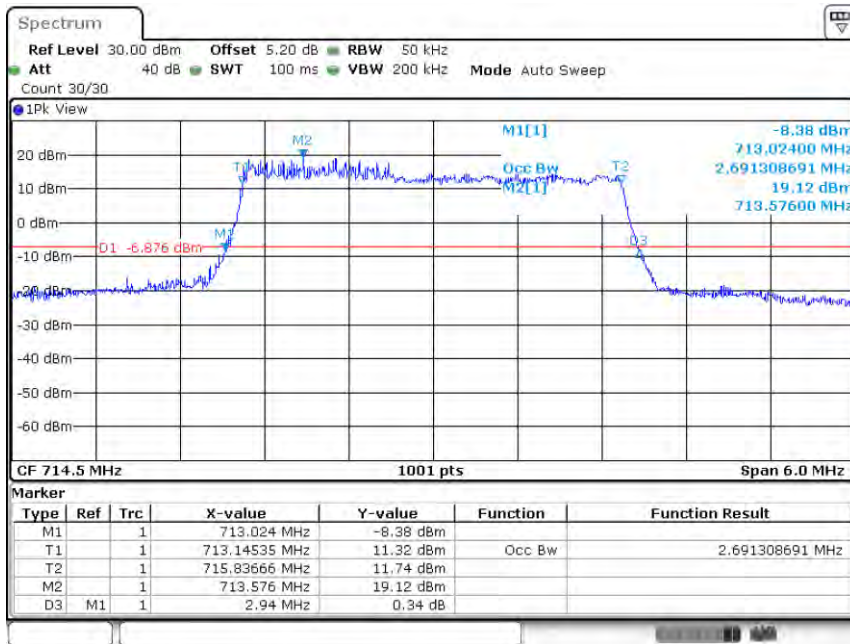


**Band12-3MHz-64QAM-23095-15RB#0-2.685**



Date: 21 JAN 2021 14:00:11

**Band12-3MHz-64QAM-23165-15RB#0-2.691**

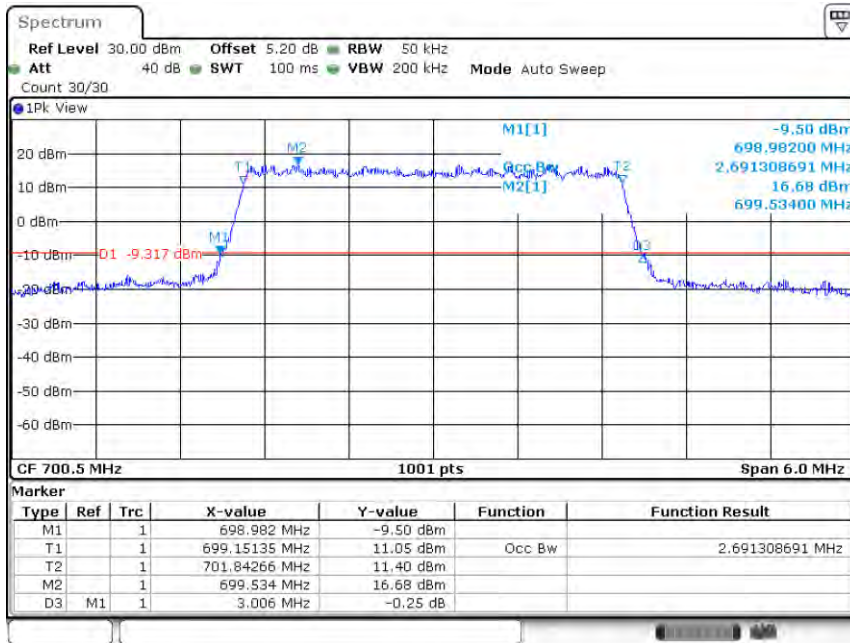


Date: 21 JAN 2021 14:00:24



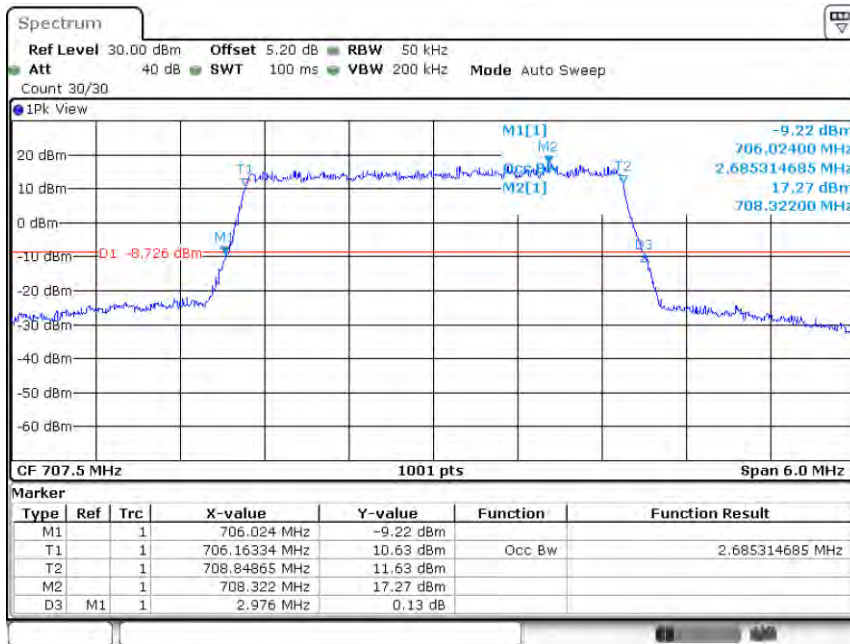
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**Band12-3MHz-16QAM-23025-15RB#0-2.691**



Date: 21. JAN 2021 12:03:01

**Band12-3MHz-16QAM-23095-15RB#0-2.685**

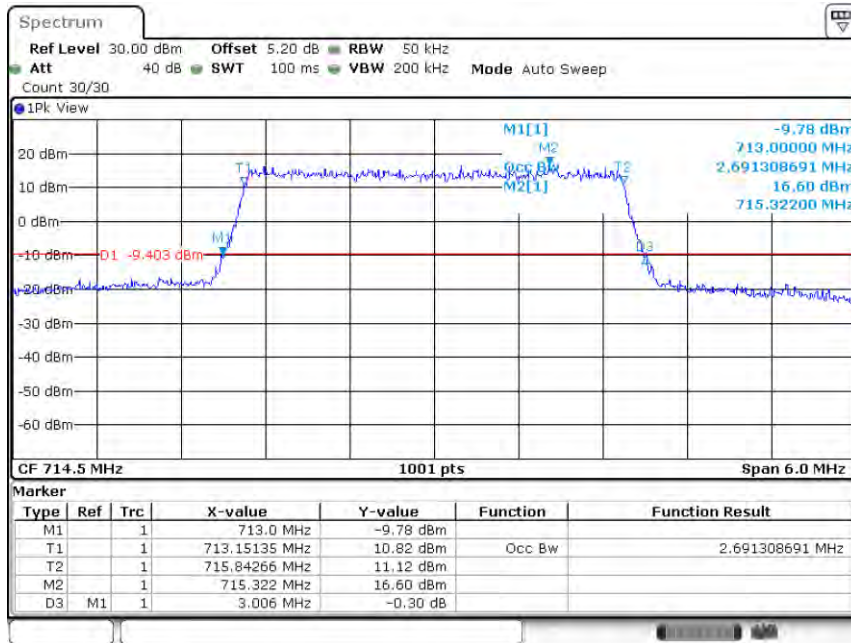


Date: 21. JAN 2021 12:03:27



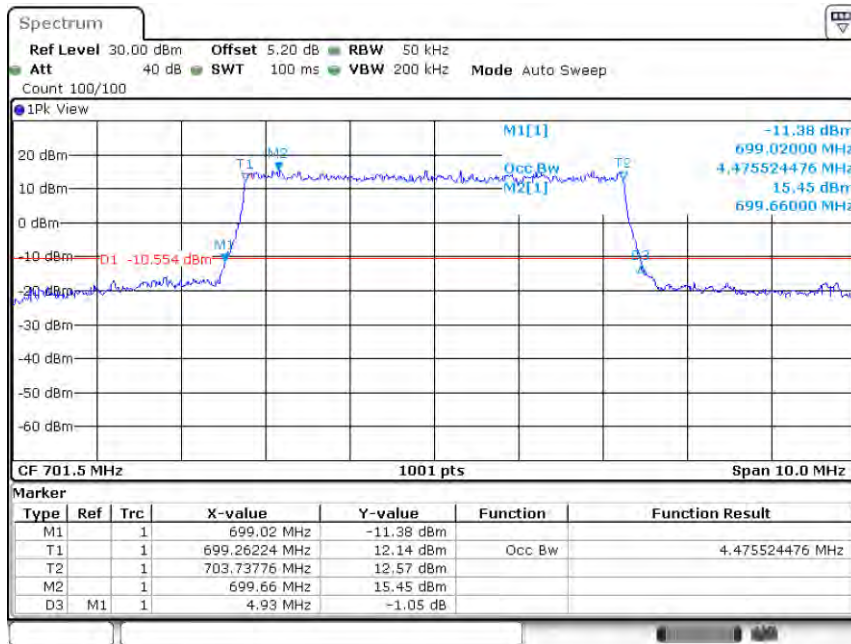
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**Band12-3MHz-16QAM-23165-15RB#0-2.691**



Date: 21 JAN 2021 12:03:52

**Band12-5MHz-QPSK-23035-25RB#0-4.476**

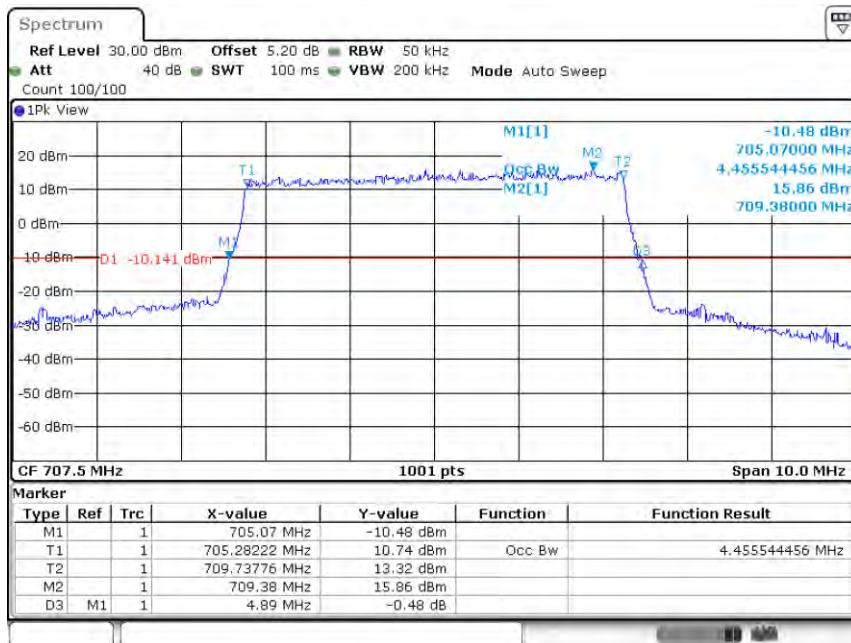


Date: 21 JAN 2021 12:04:17



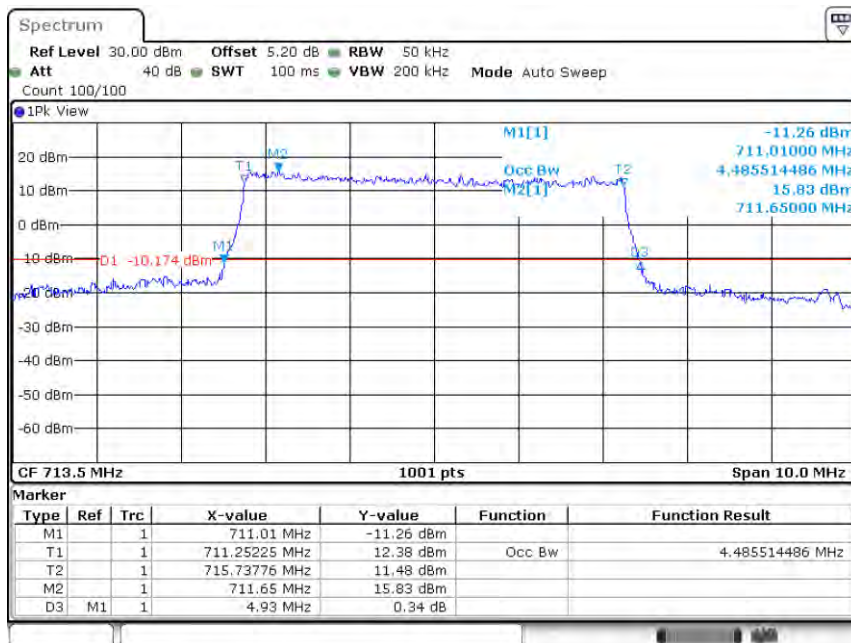
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**Band12-5MHz-QPSK-23095-25RB#0-4.456**



Date: 21 JAN 2021 12:04:56

**Band12-5MHz-QPSK-23155-25RB#0-4.486**

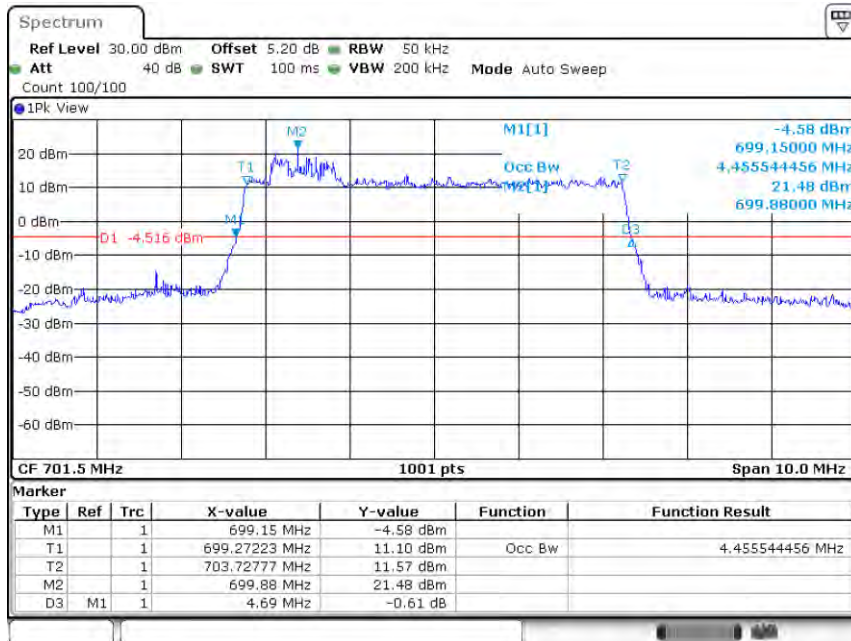


Date: 21 JAN 2021 12:05:36



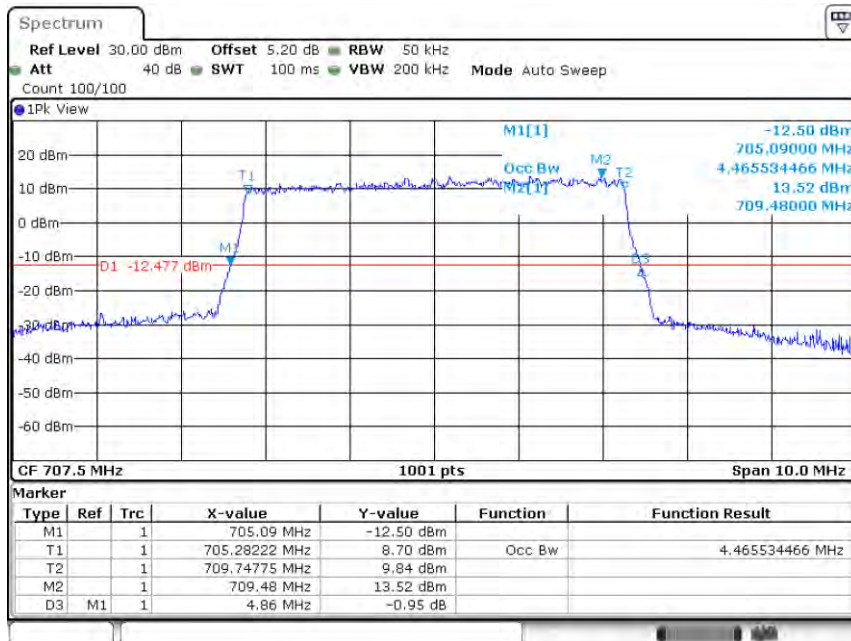
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**Band12-5MHz-64QAM-23035-25RB#0-4.456**



Date: 21 JAN 2021 14:00:49

**Band12-5MHz-64QAM-23095-25RB#0-4.466**



Date: 21 JAN 2021 14:01:09

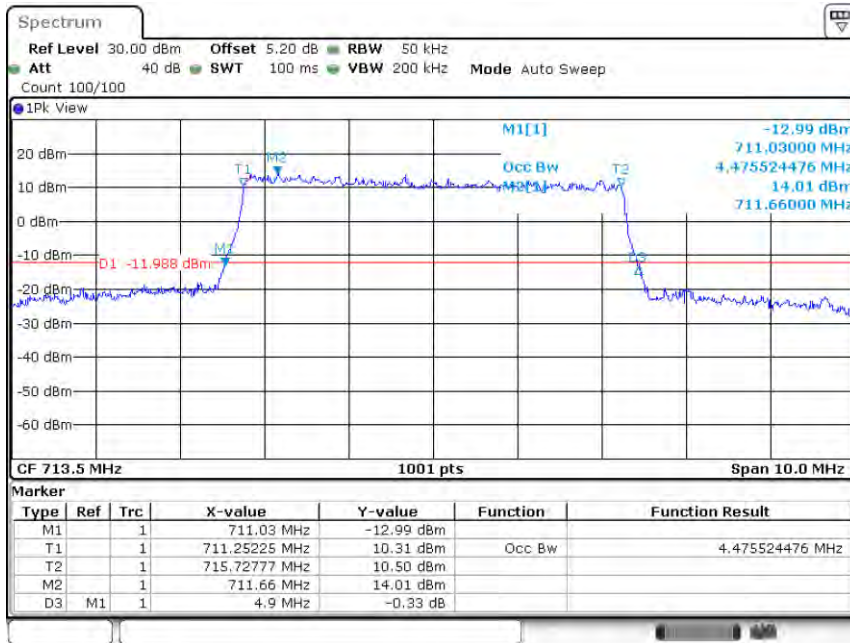


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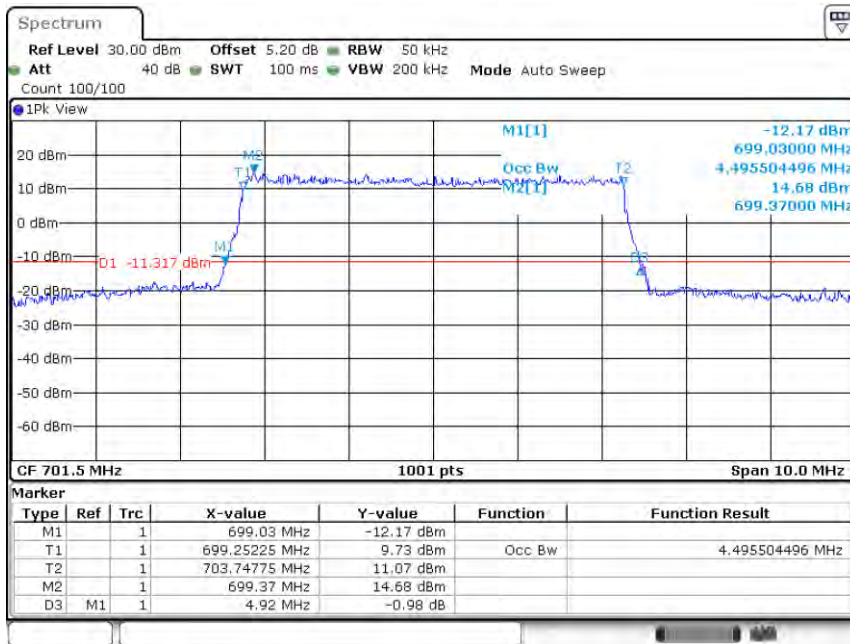


Band12-5MHz-64QAM-23155-25RB#0-4.476



Date: 21 JAN 2021 14:01:28

Band12-5MHz-16QAM-23035-25RB#0-4.496

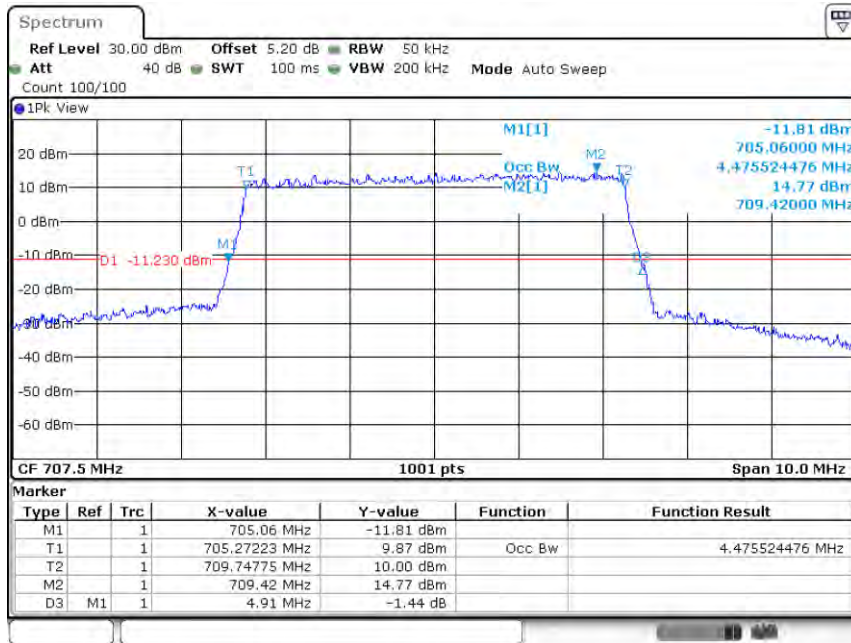


Date: 21 JAN 2021 12:04:36



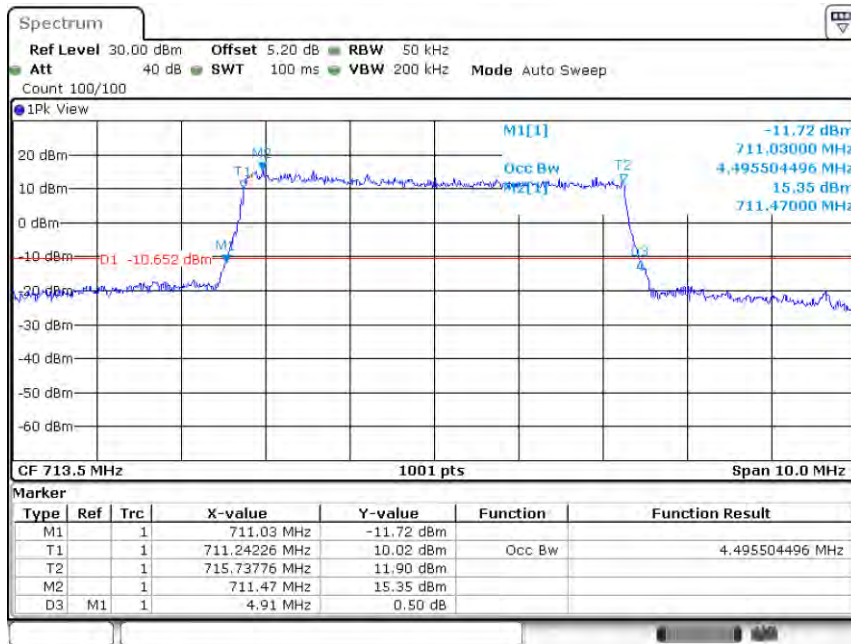
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**Band12-5MHz-16QAM-23095-25RB#0-4.476**



Date: 21 JAN 2021 12:05:16

**Band12-5MHz-16QAM-23155-25RB#0-4.496**

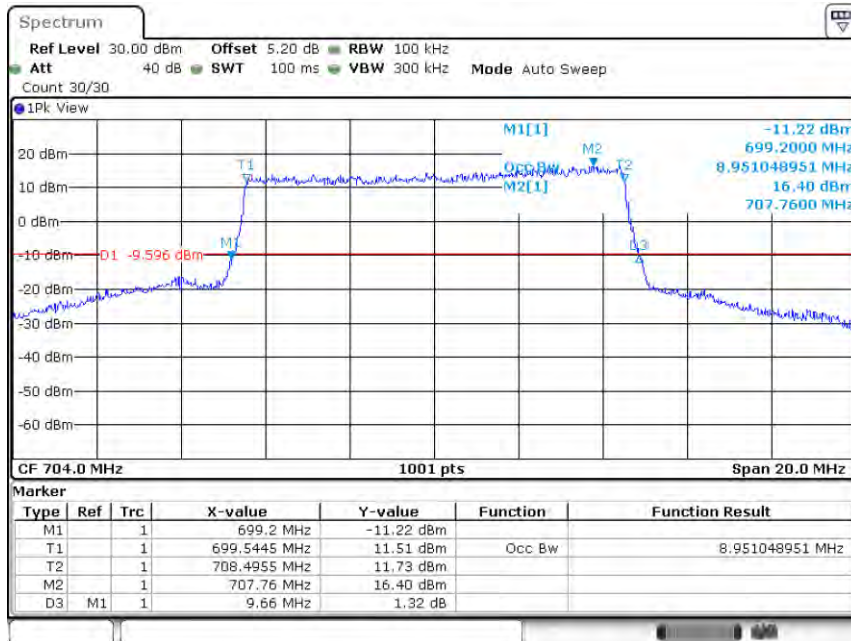


Date: 21 JAN 2021 12:05:56



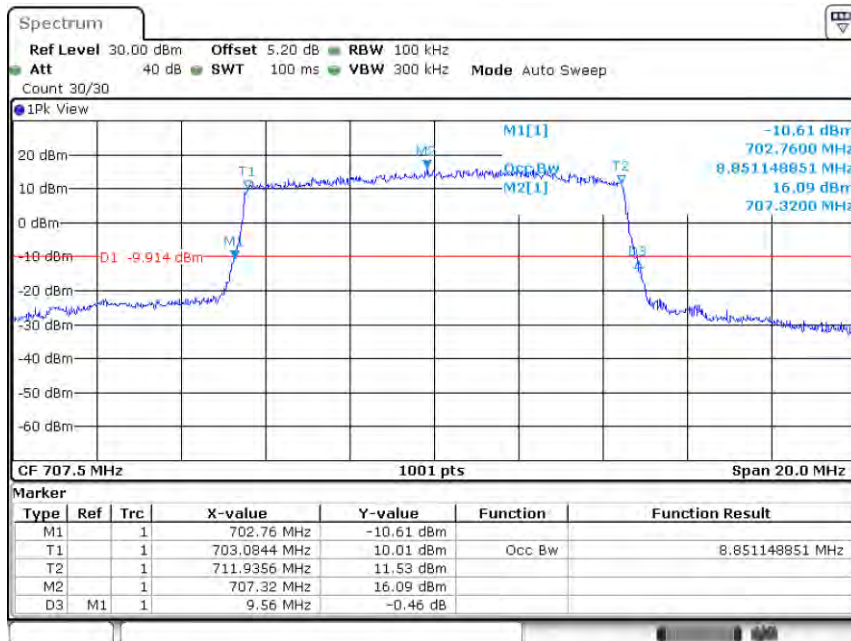
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**Band12-10MHz-QPSK-23060-50RB#0-8.951**



Date: 21 JAN 2021 12:06:13

**Band12-10MHz-QPSK-23095-50RB#0-8.851**

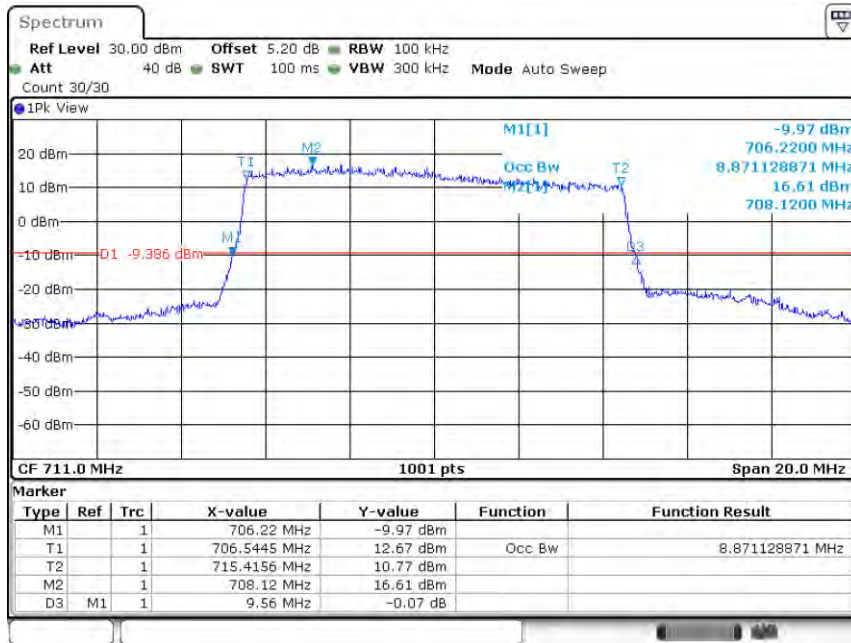


Date: 21 JAN 2021 12:06:39



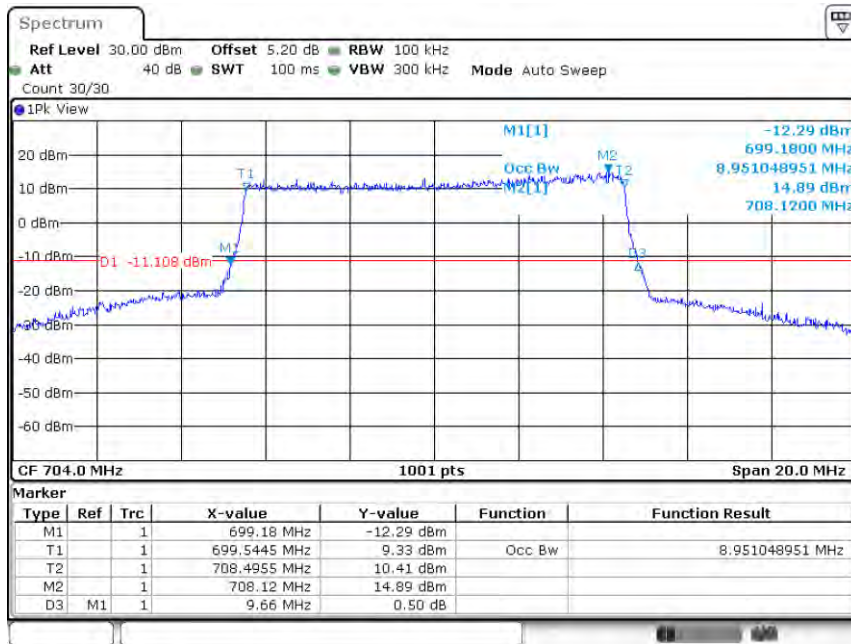
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**Band12-10MHz-QPSK-23130-50RB#0-8.871**



Date: 21. JAN 2021 12:07:04

**Band12-10MHz-64QAM-23060-50RB#0-8.951**

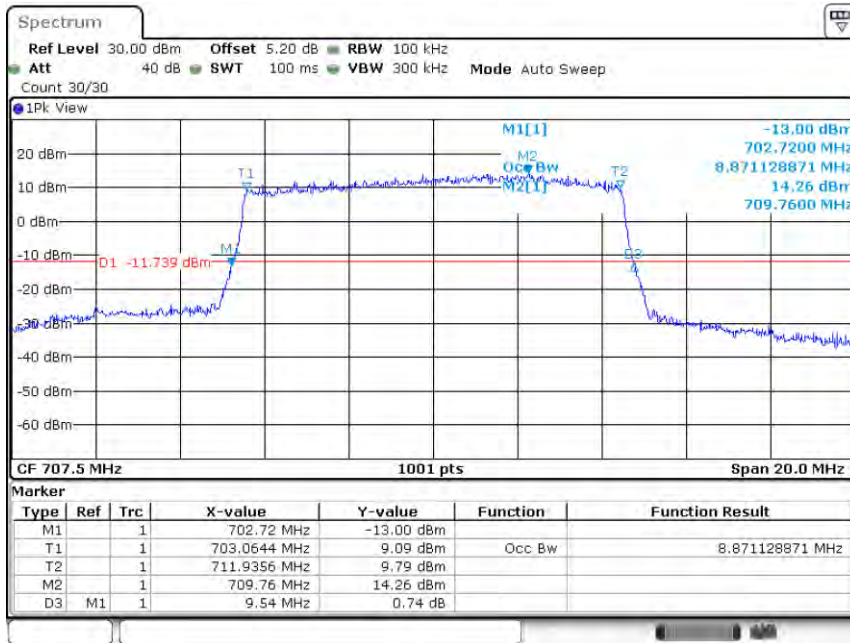


Date: 21. JAN 2021 14:01:47



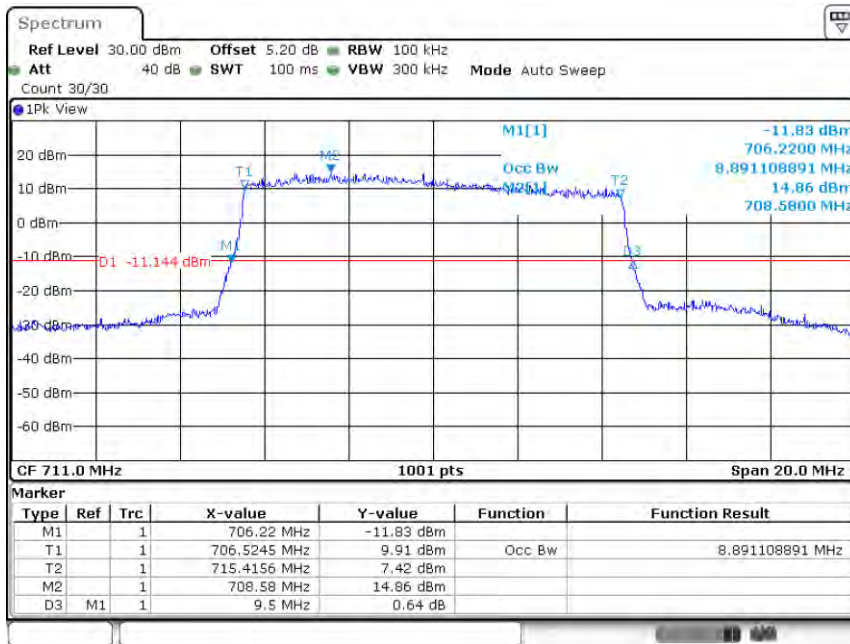
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**Band12-10MHz-64QAM-23095-50RB#0-8.871**



Date: 21. JAN 2021 14:02:00

**Band12-10MHz-64QAM-23130-50RB#0-8.891**

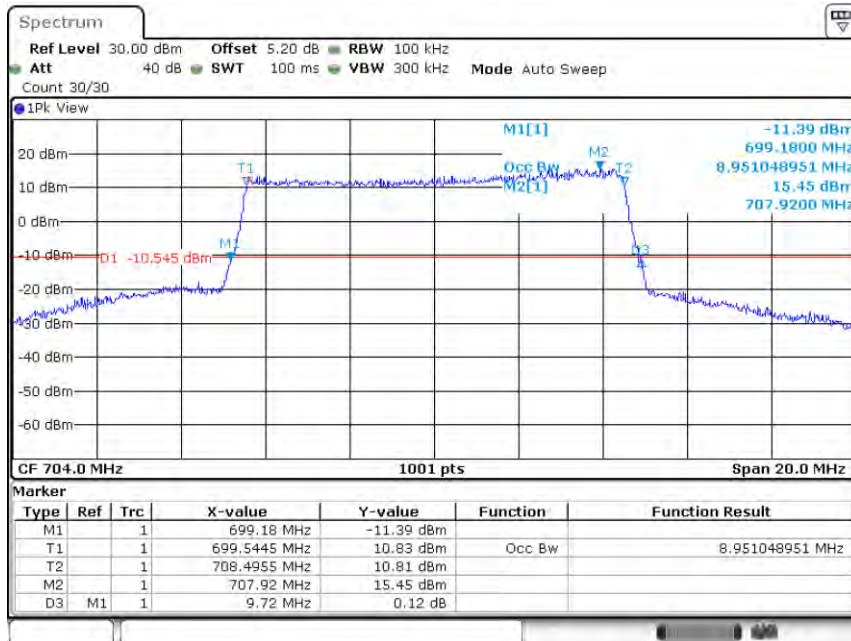


Date: 21. JAN 2021 14:02:12



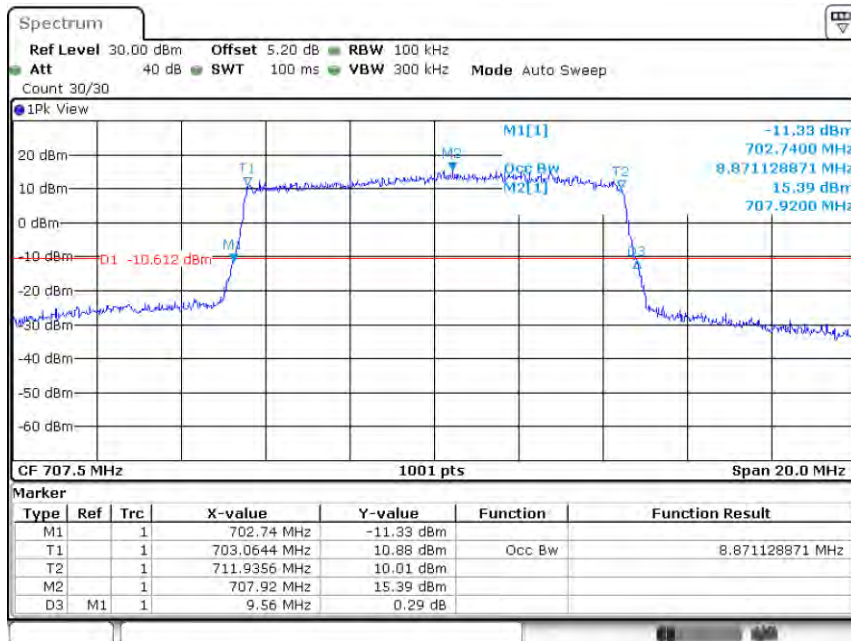
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**Band12-10MHz-16QAM-23060-50RB#0-8.951**



Date: 21 JAN 2021 12:06:26

**Band12-10MHz-16QAM-23095-50RB#0-8.871**

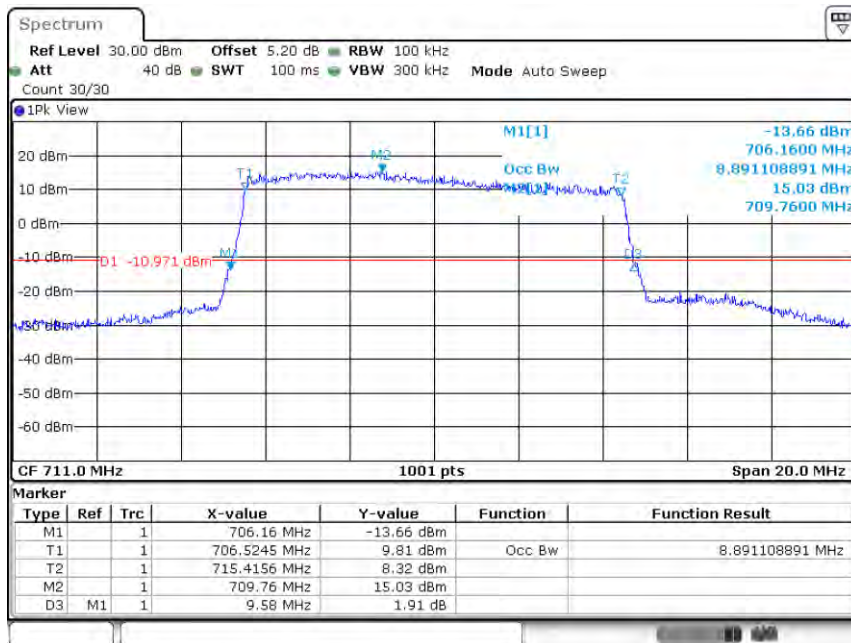


Date: 21 JAN 2021 12:06:51



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**Band12-10MHz-16QAM-23130-50RB#0-8.891**



Date: 21 JAN 2021 12:07:17

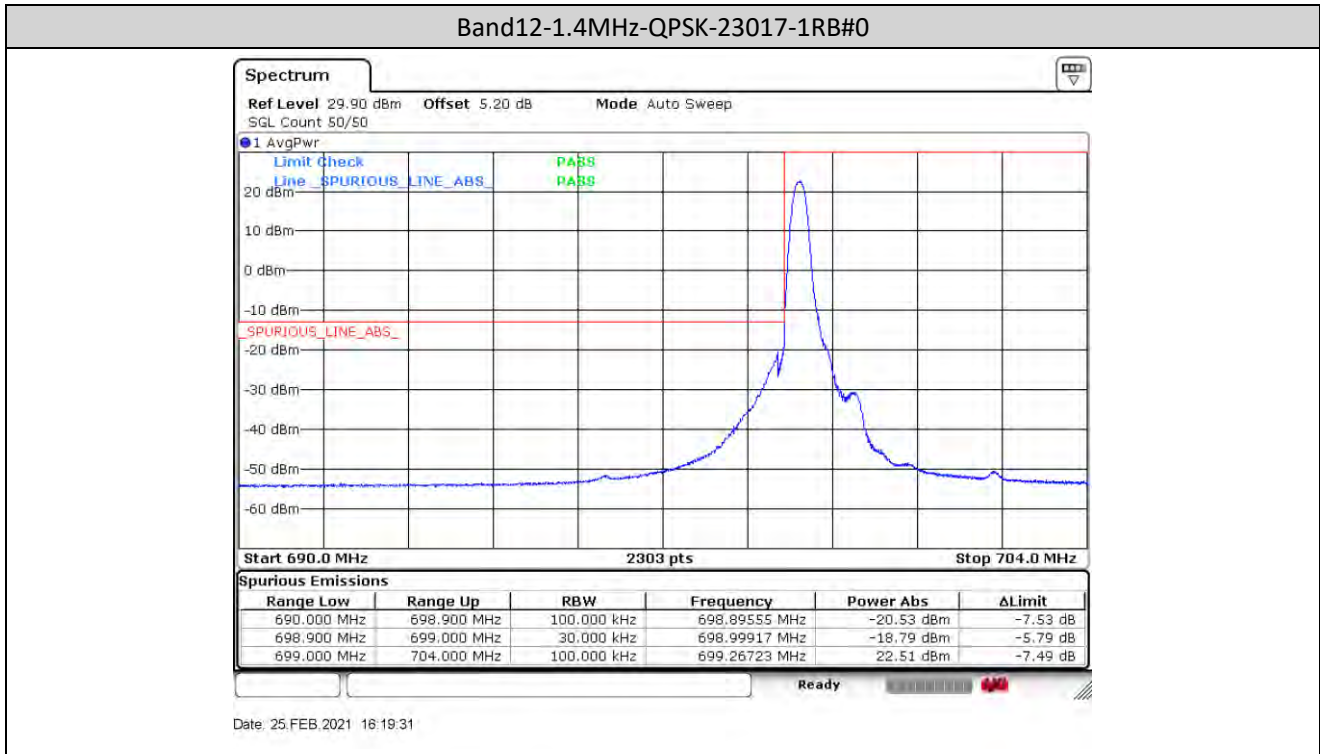


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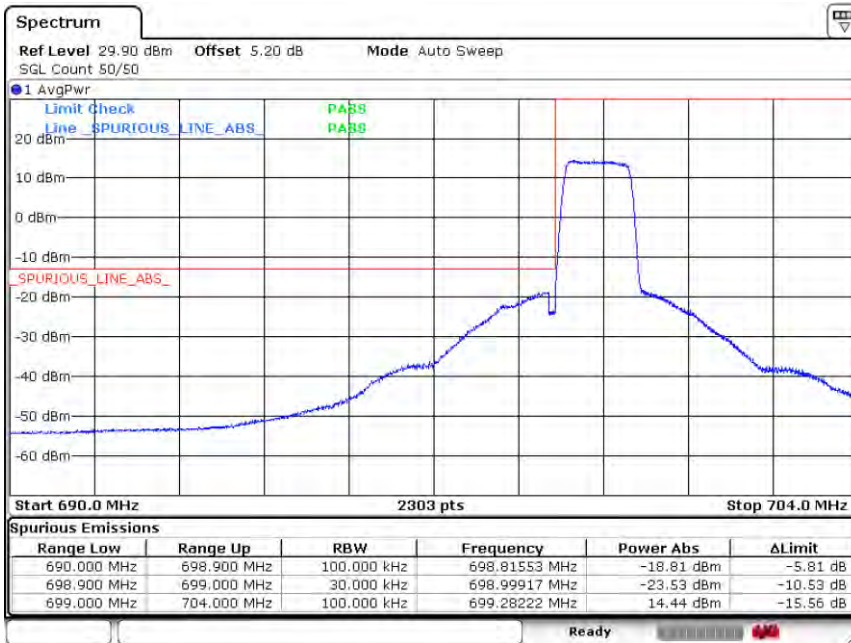
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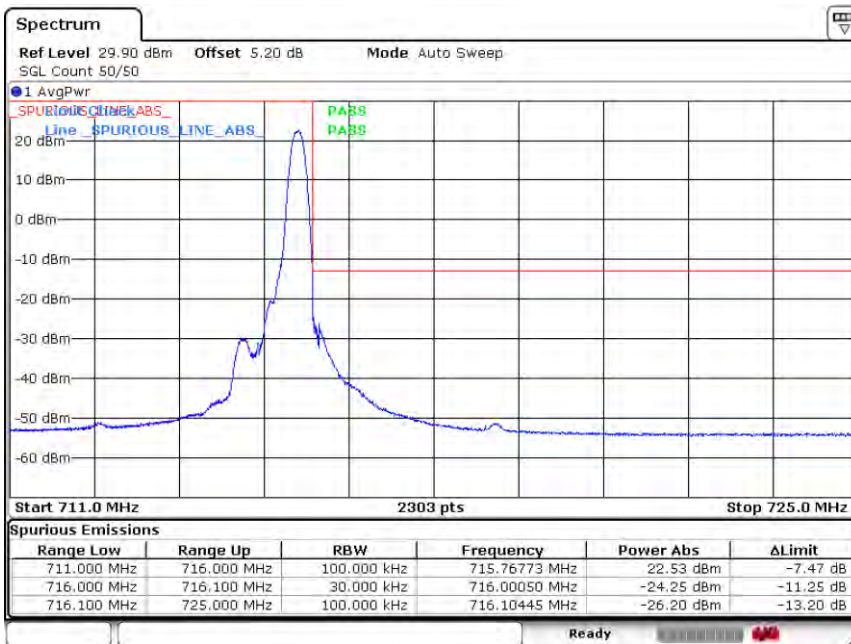


**Band12-1.4MHz-QPSK-23017-6RB#0**



Date: 25.FEB.2021 16:20:30

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

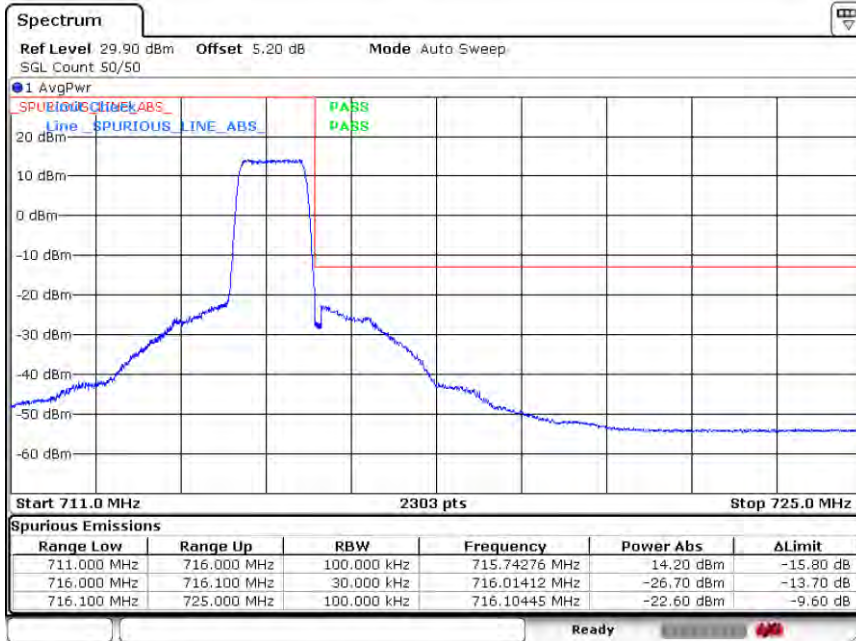


Date: 25.FEB.2021 16:53:16



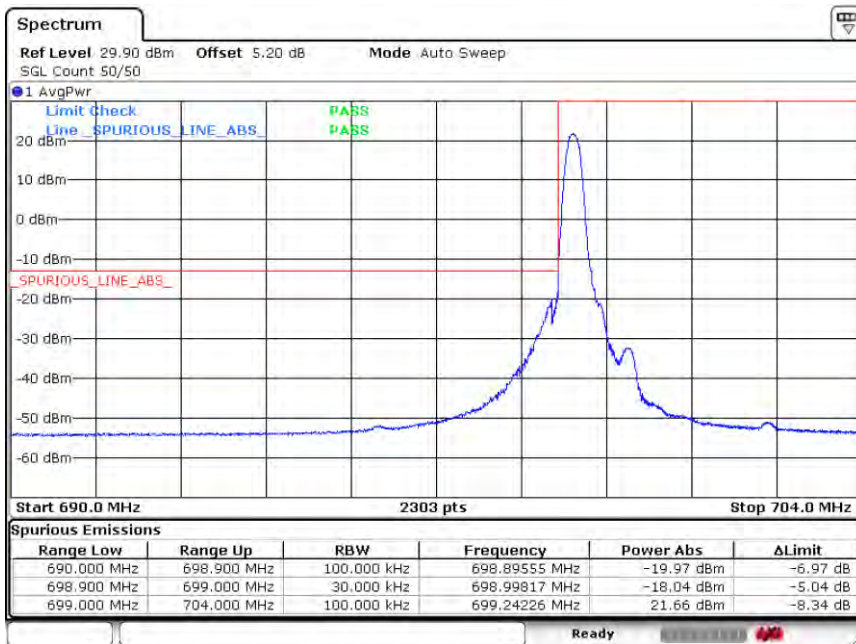
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**Band12-1.4MHz-QPSK-23173-6RB#0**



Date: 25.FEB 2021 16:52:41

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

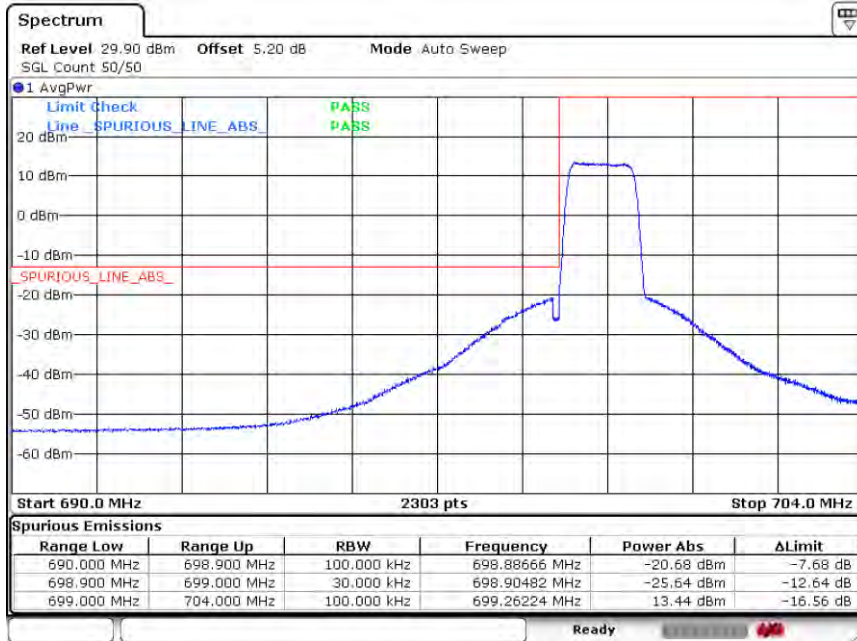


Date: 25.FEB 2021 16:18:27



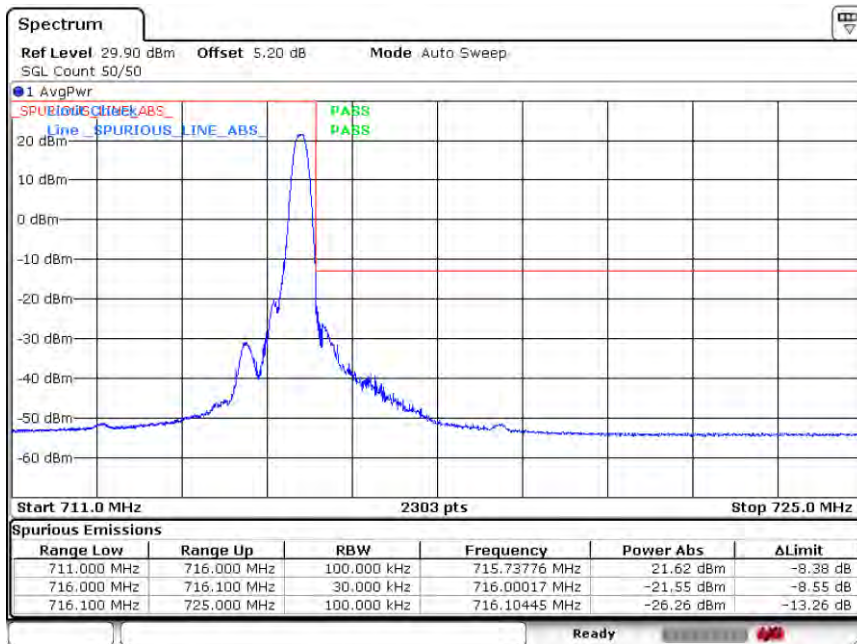
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**Band12-1.4MHz-16QAM-23017-6RB#0**



Date: 25.FEB 2021 16:21:00

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

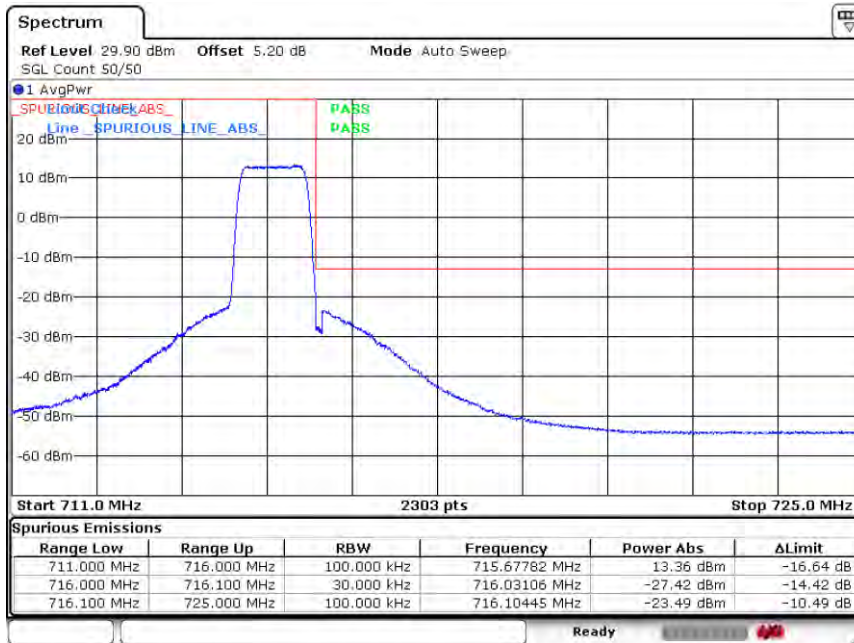


Date: 25.FEB 2021 16:53:46



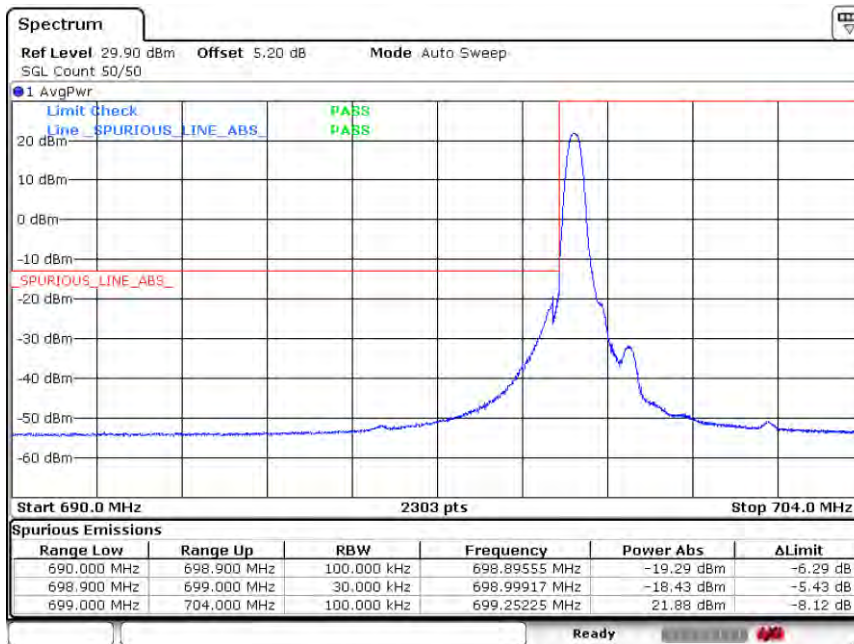
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**Band12-1.4MHz-16QAM-23173-6RB#0**



Date: 25.FEB 2021 16:52:06

**Band12-1.4MHz-64QAM-23017-1RB#0**

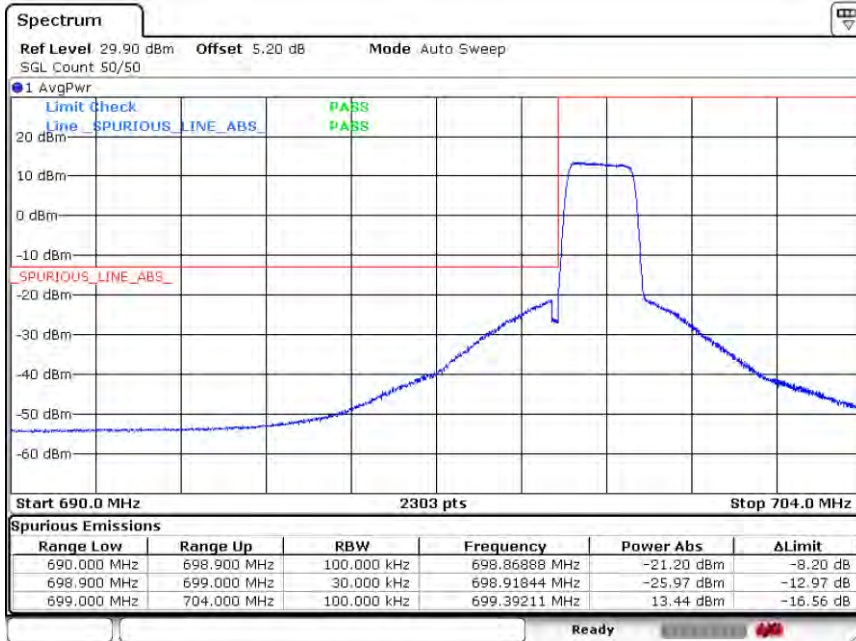


Date: 25.FEB 2021 16:22:47



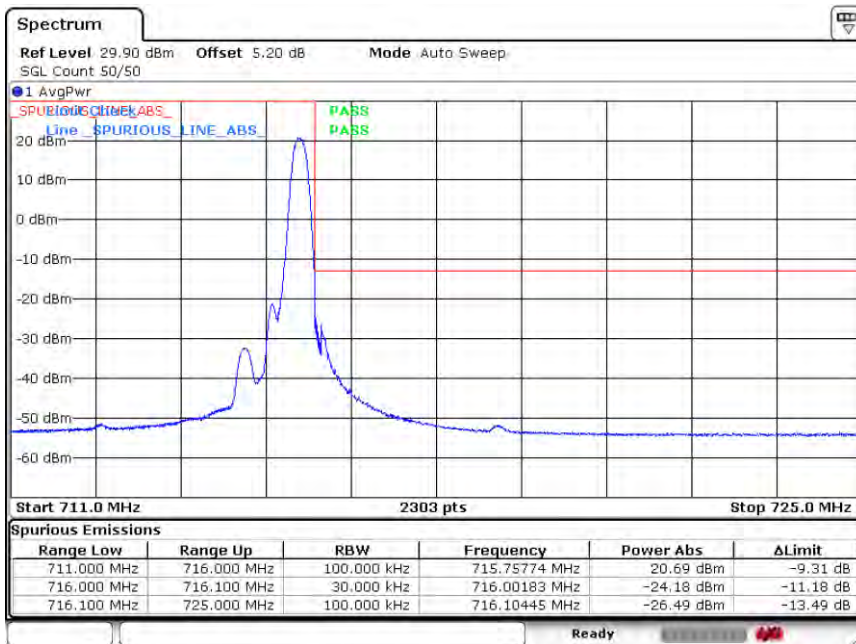
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**Band12-1.4MHz-64QAM-23017-6RB#0**



Date: 25.FEB 2021 16:21:40

**Band12-1.4MHz-64QAM-23173-1RB#5**

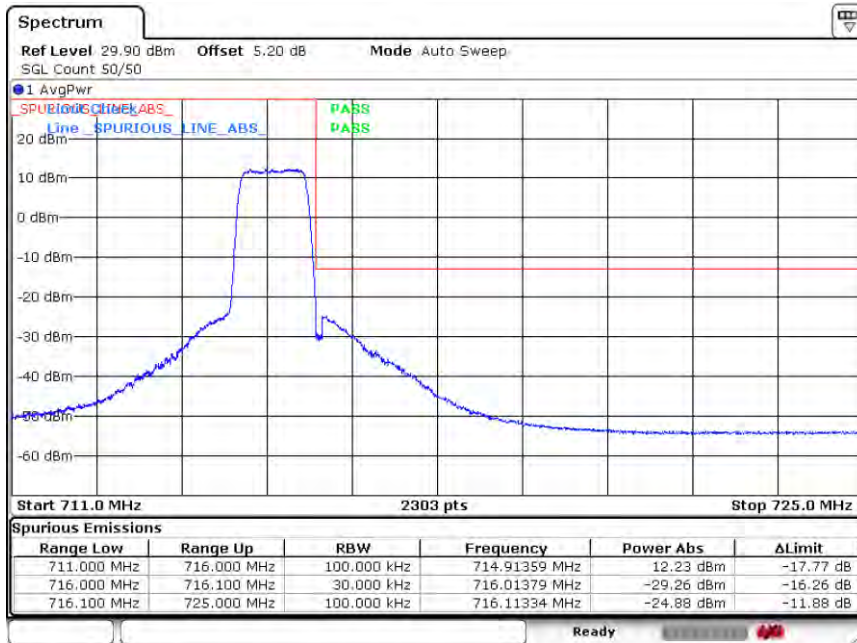


Date: 25.FEB 2021 16:54:17



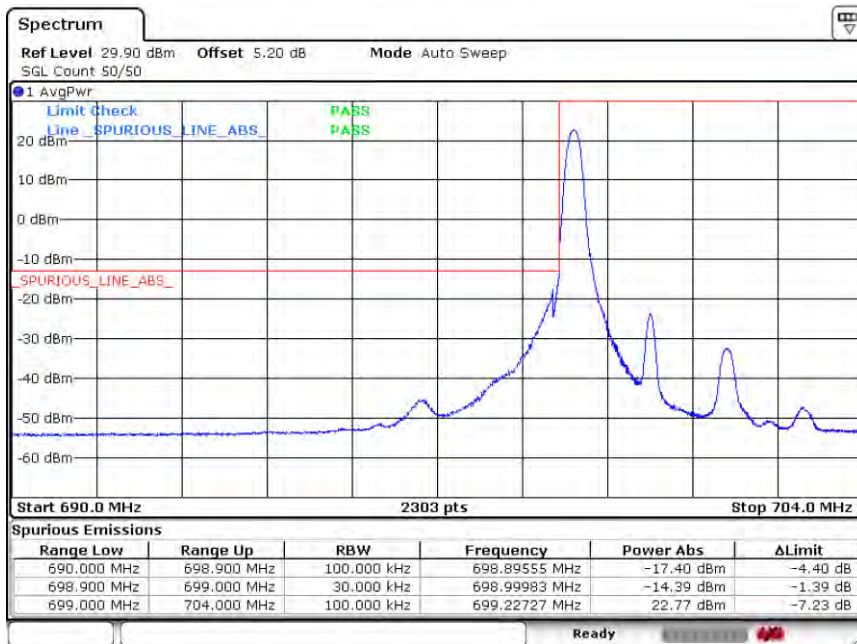
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**Band12-1.4MHz-64QAM-23173-6RB#0**



Date: 25.FEB 2021 16:51:31

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

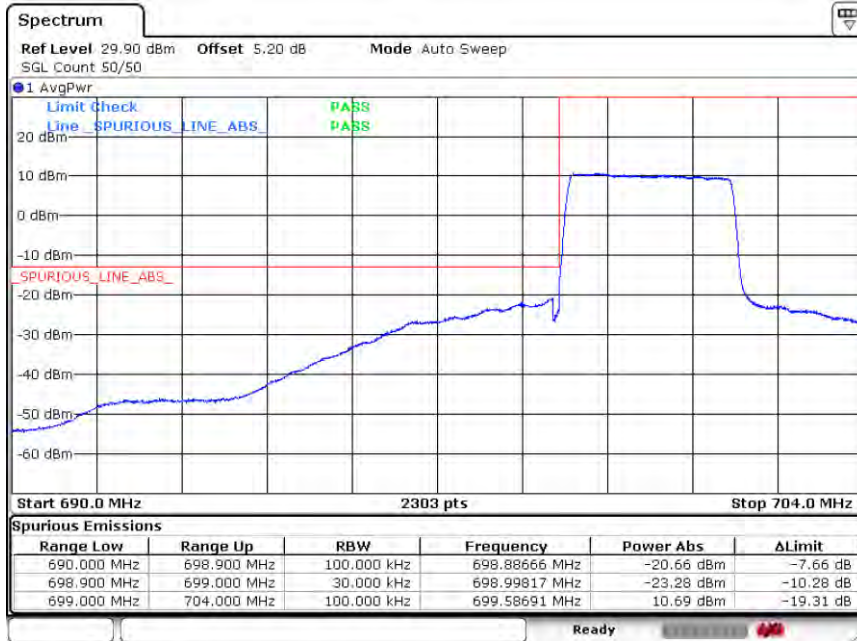


Date: 25.FEB 2021 16:26:52



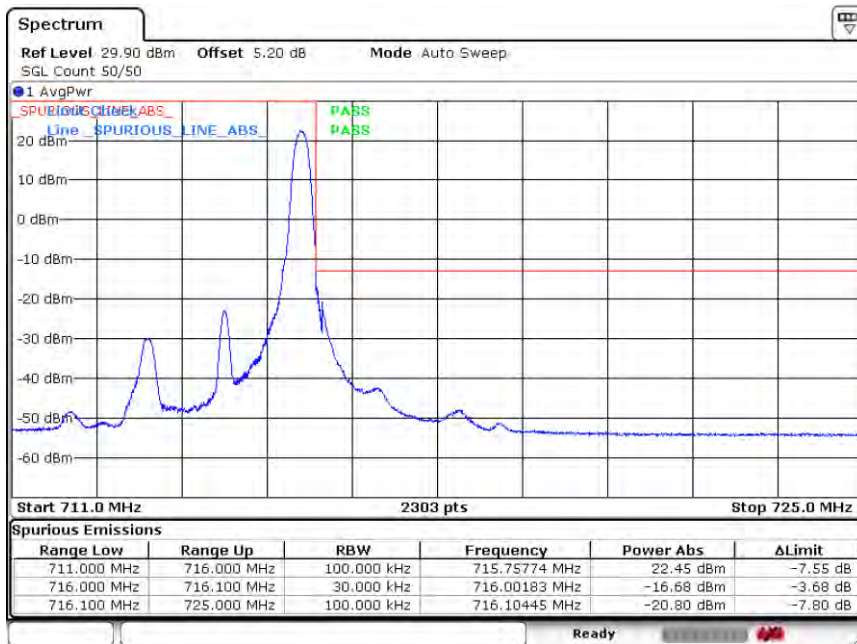
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**Band12-3MHz-QPSK-23025-15RB#0**



Date: 25.FEB 2021 16:25:39

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

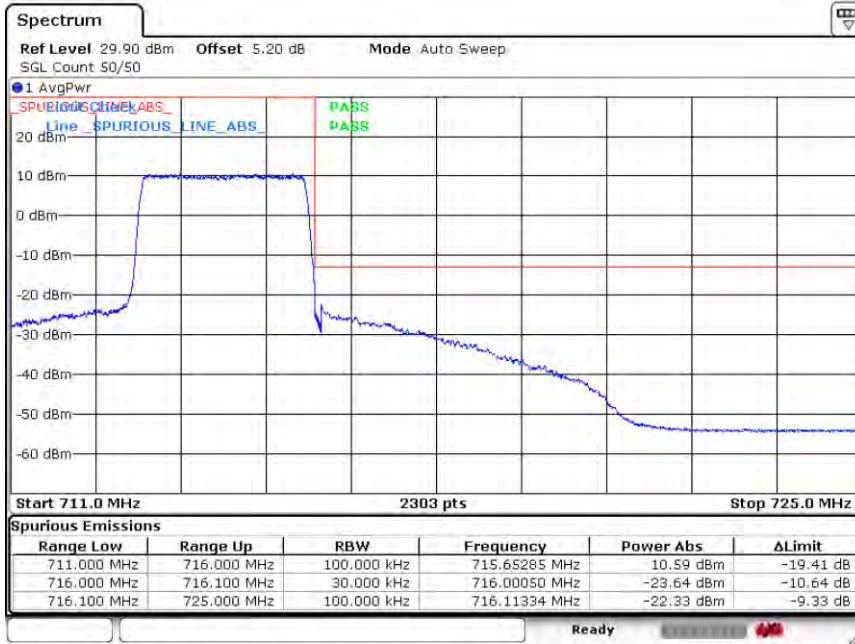


Date: 25.FEB 2021 16:49:08



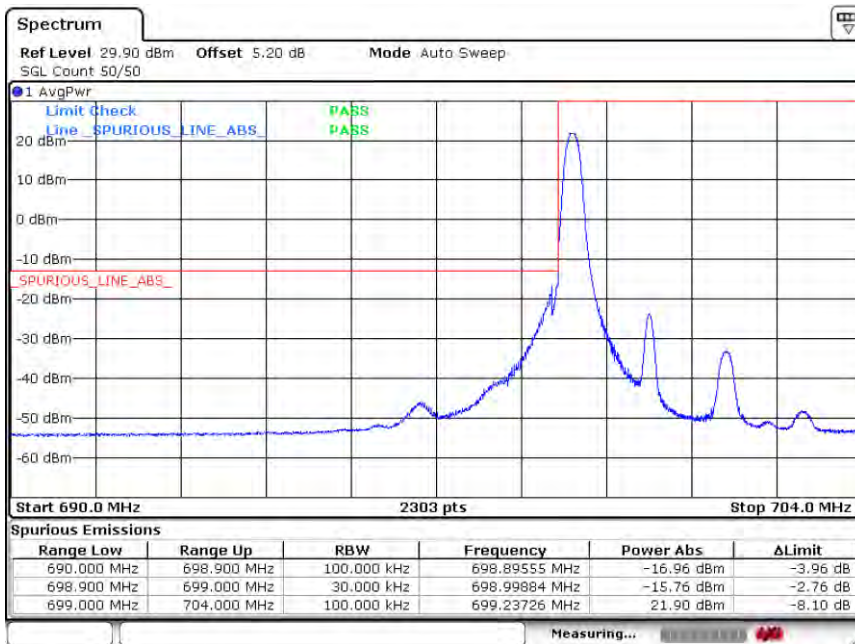
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**Band12-3MHz-QPSK-23165-15RB#0**



Date: 25.FEB 2021 16:48:37

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



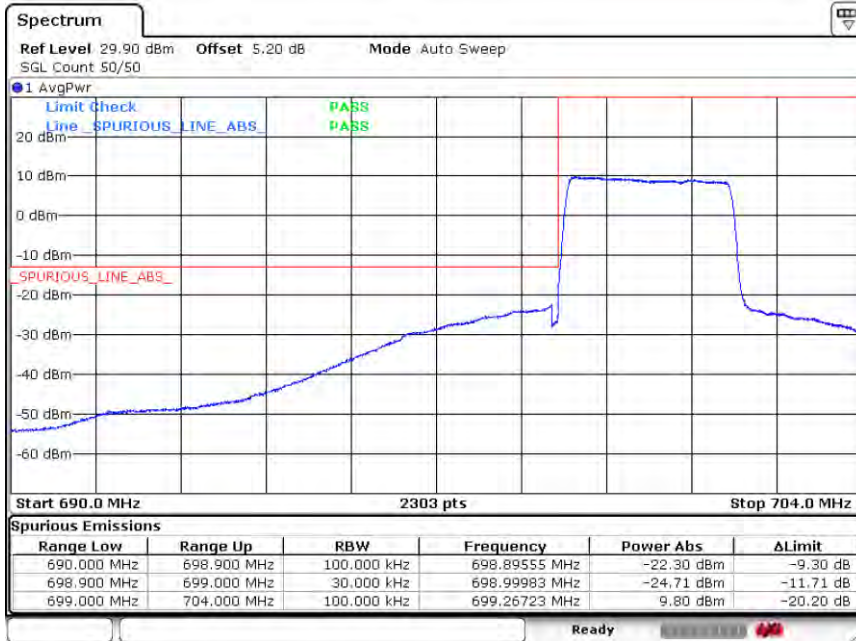
Date: 25.FEB 2021 16:27:44



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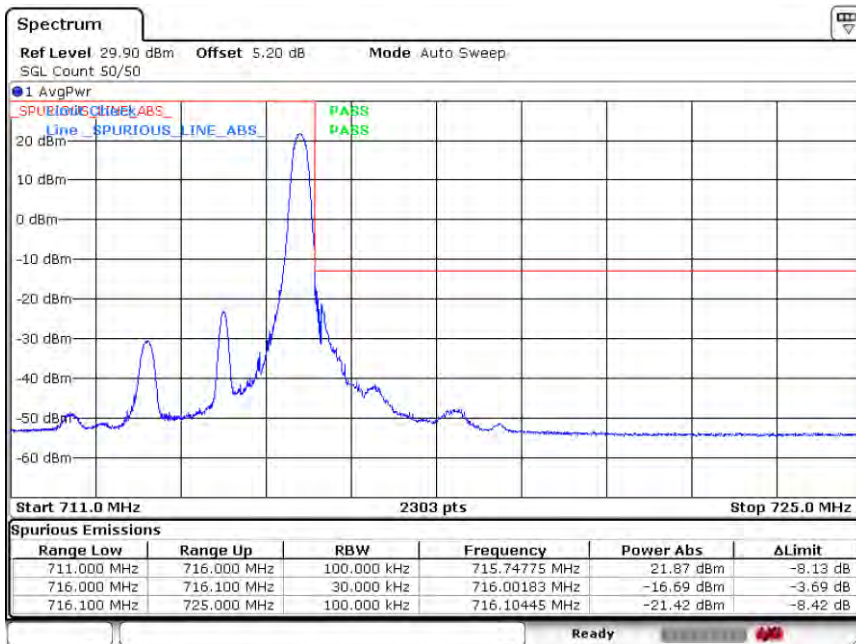


**Band12-3MHz-16QAM-23025-15RB#0**



Date: 25.FEB 2021 16:25:14

**Band12-3MHz-16QAM-23165-1RB#14**

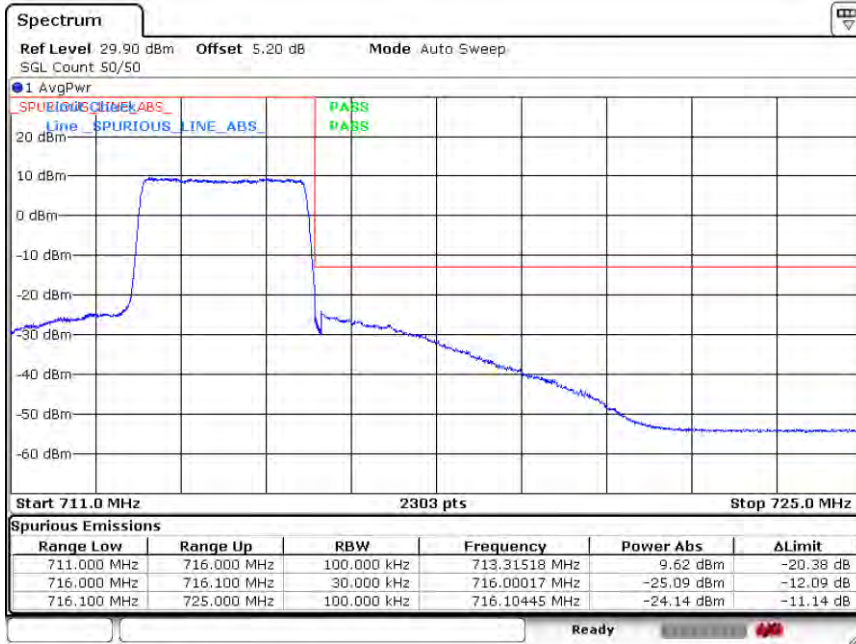


Date: 25.FEB 2021 16:49:55



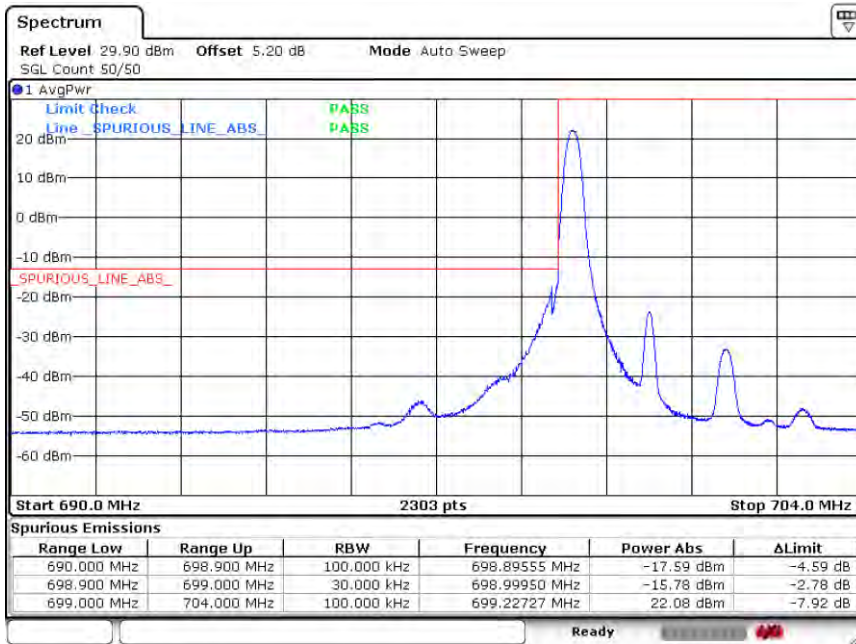
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**Band12-3MHz-16QAM-23165-15RB#0**



Date: 25.FEB 2021 16:48:08

**Band12-3MHz-64QAM-23025-1RB#0**

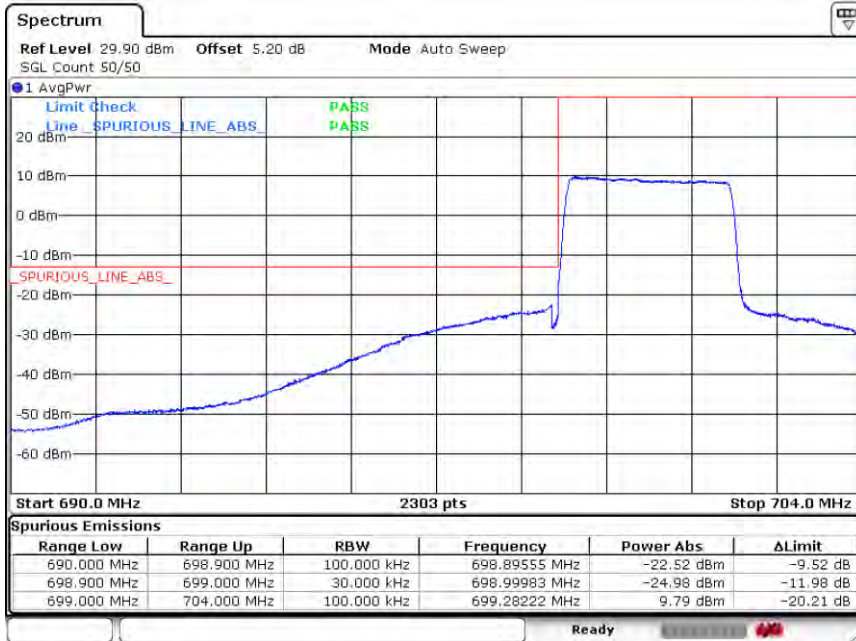


Date: 25.FEB 2021 16:28:31



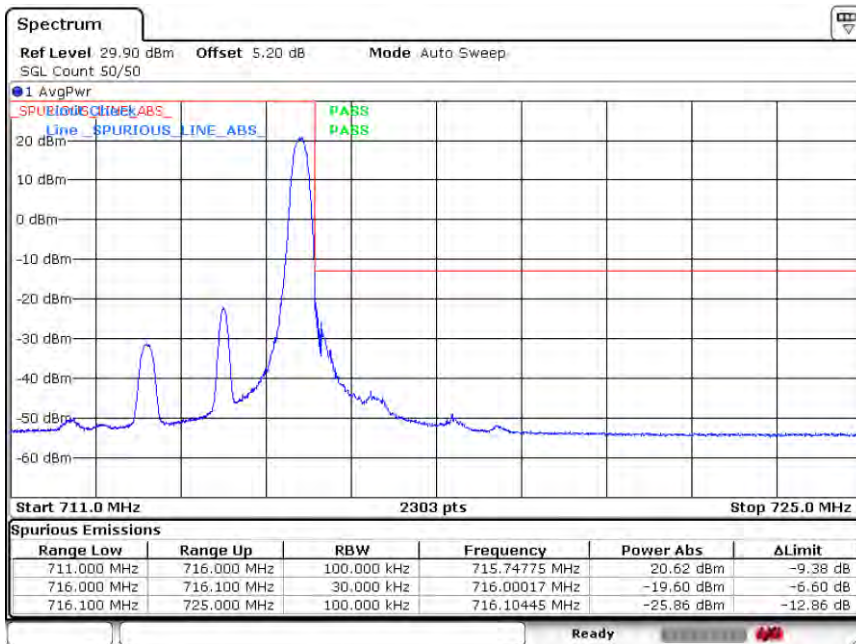
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**Band12-3MHz-64QAM-23025-15RB#0**



Date: 25.FEB 2021 16:24:35

**Band12-3MHz-64QAM-23165-1RB#14**

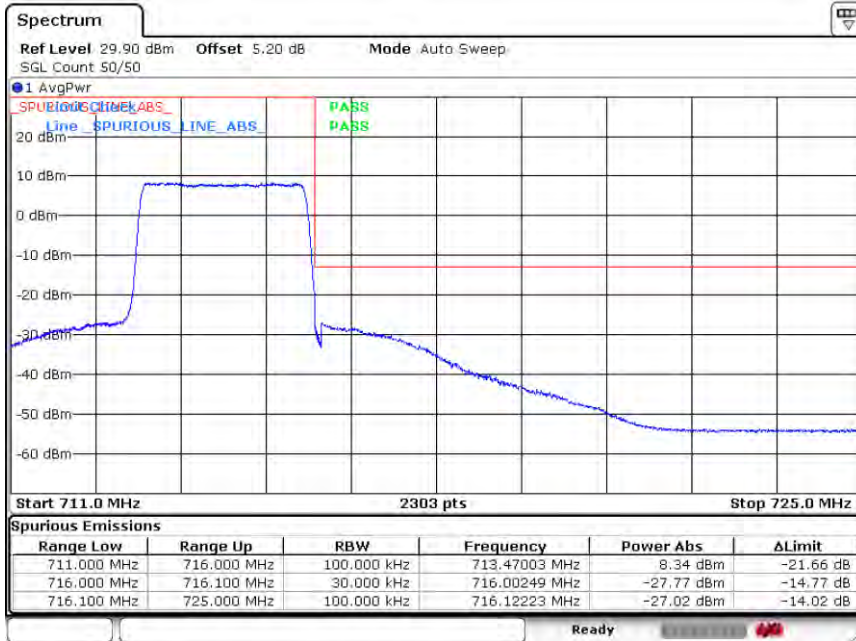


Date: 25.FEB 2021 16:50:30



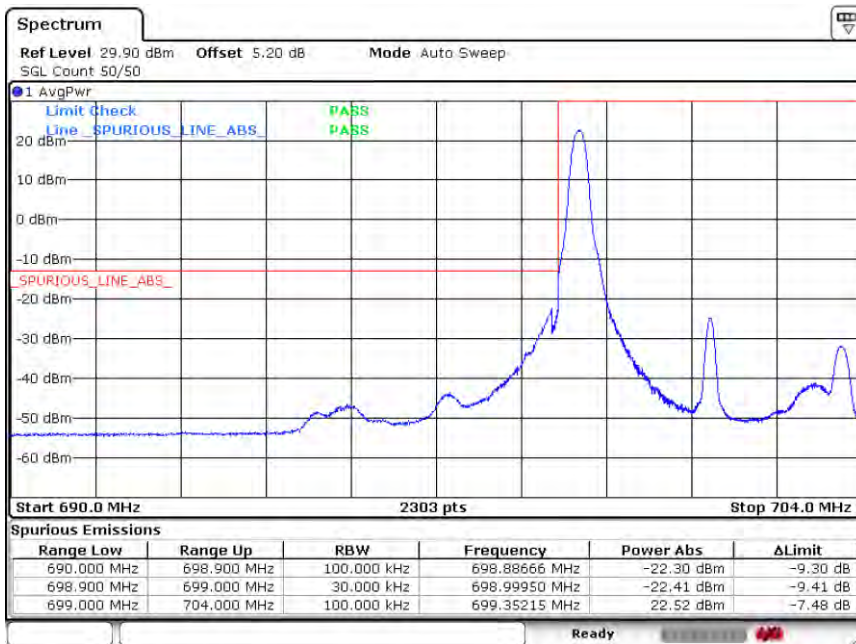
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**Band12-3MHz-64QAM-23165-15RB#0**



Date: 25.FEB 2021 16:47:36

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

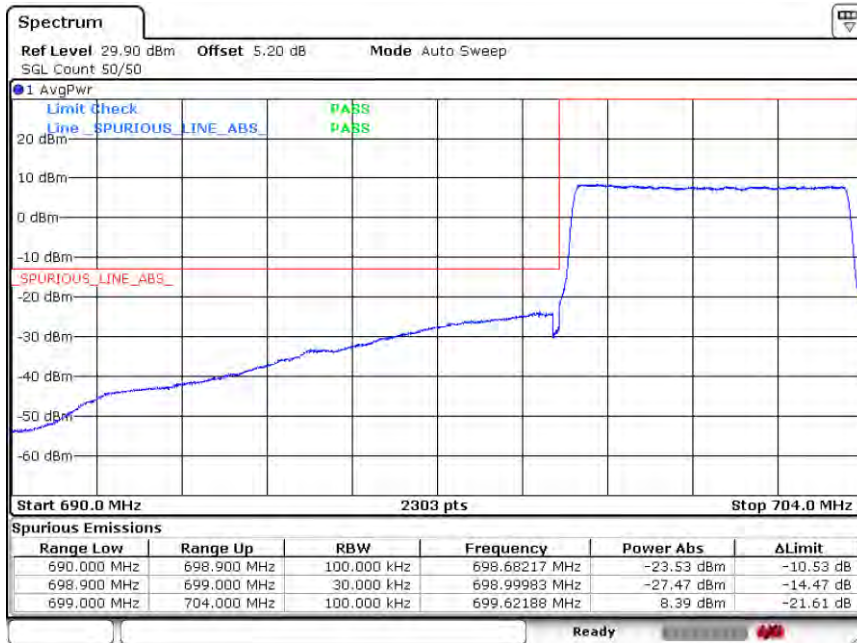


Date: 25.FEB 2021 16:31:19



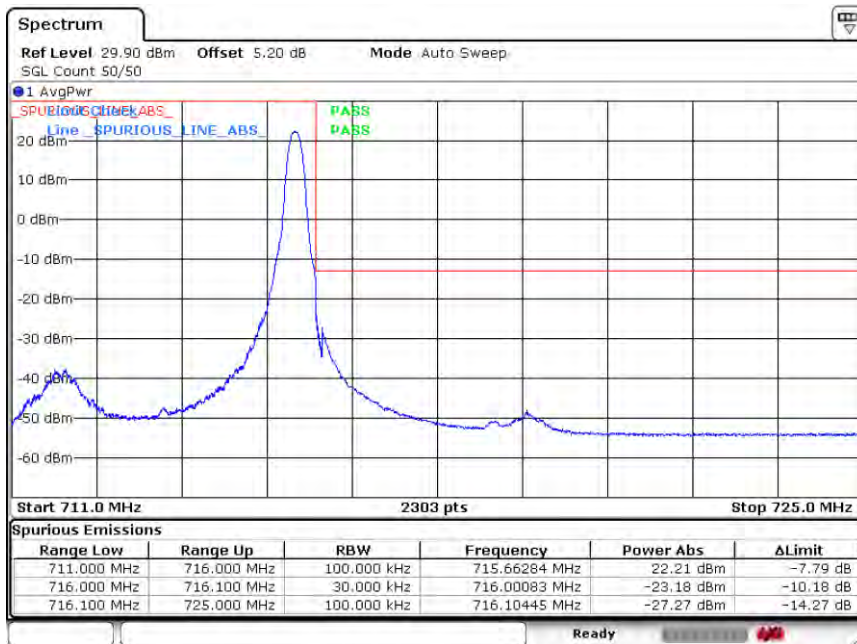
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**Band12-5MHz-QPSK-23035-25RB#0**



Date: 25.FEB 2021 16:30:47

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

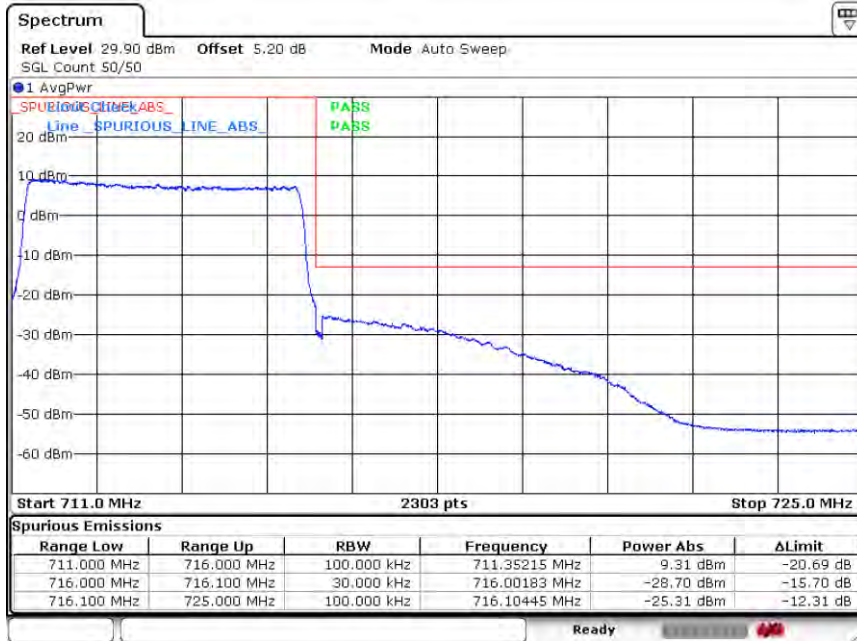


Date: 25.FEB 2021 16:43:24



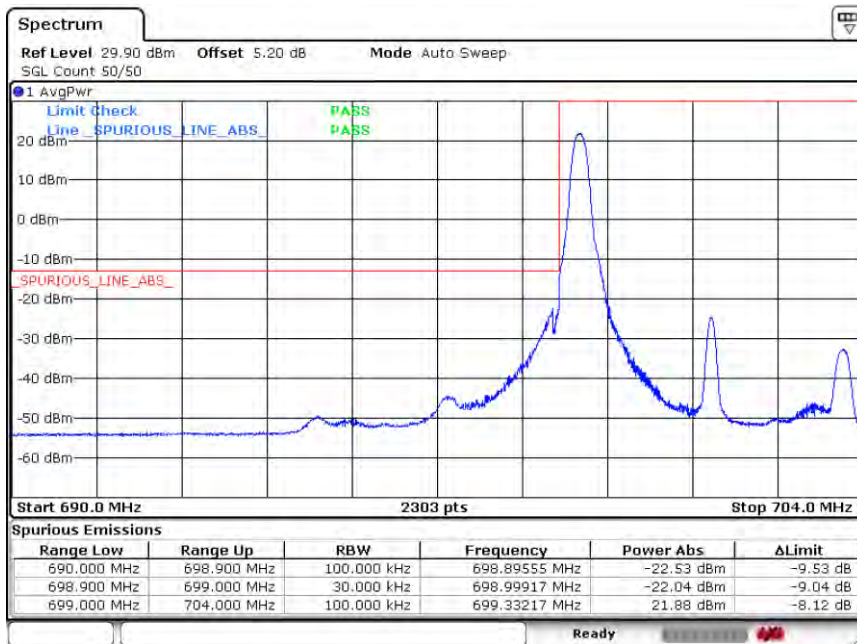
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**Band12-5MHz-QPSK-23155-25RB#0**



Date: 25.FEB 2021 16:42:50

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

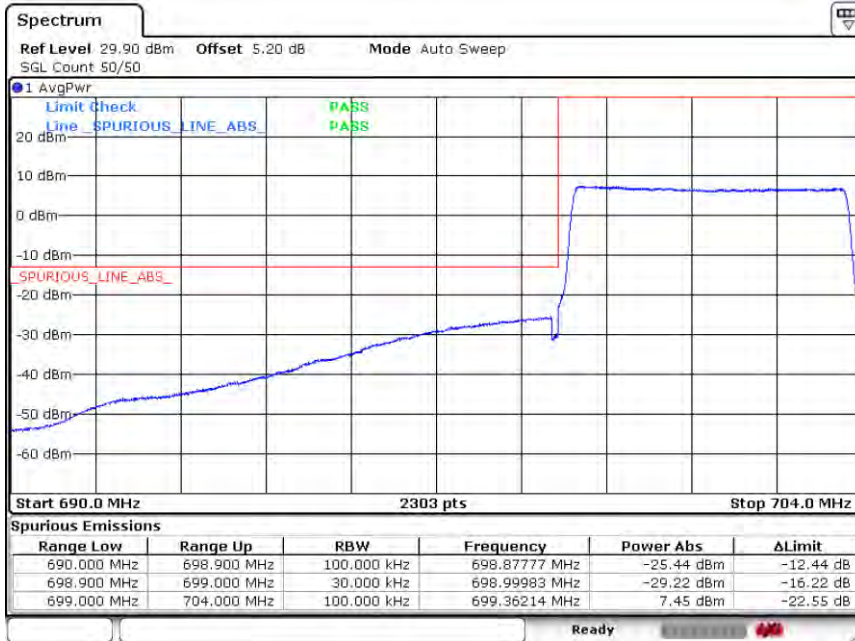


Date: 25.FEB 2021 16:31:50



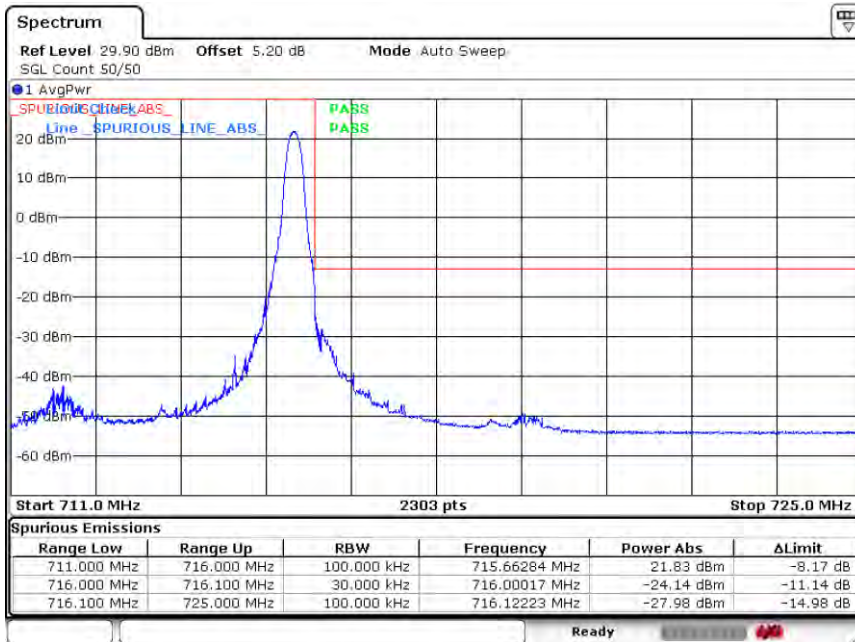
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**Band12-5MHz-16QAM-23035-25RB#0**



Date: 25.FEB 2021 16:30:20

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



Date: 25.FEB 2021 16:43:56



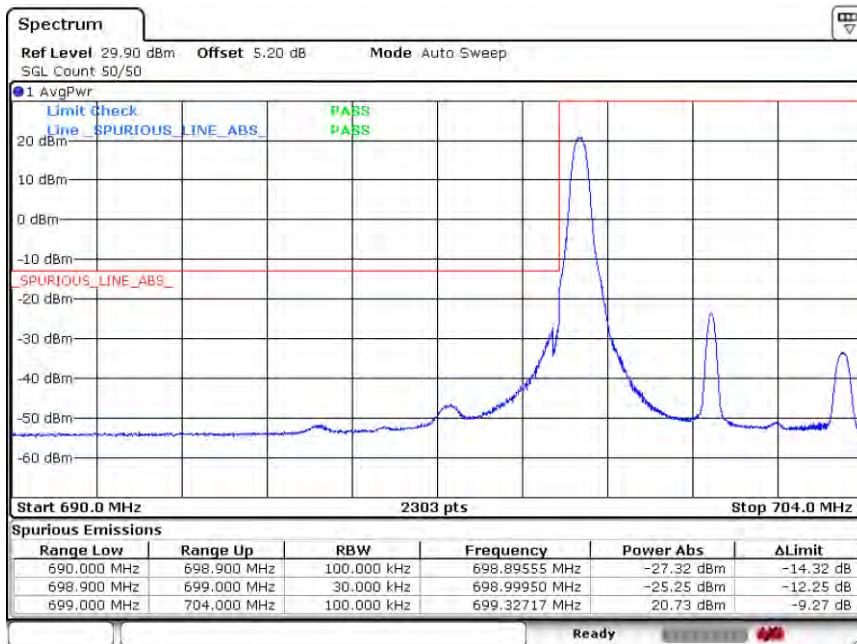
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**Band12-5MHz-16QAM-23155-25RB#0**



Date: 25.FEB 2021 16:42:00

**Band12-5MHz-64QAM-23035-1RB#0**



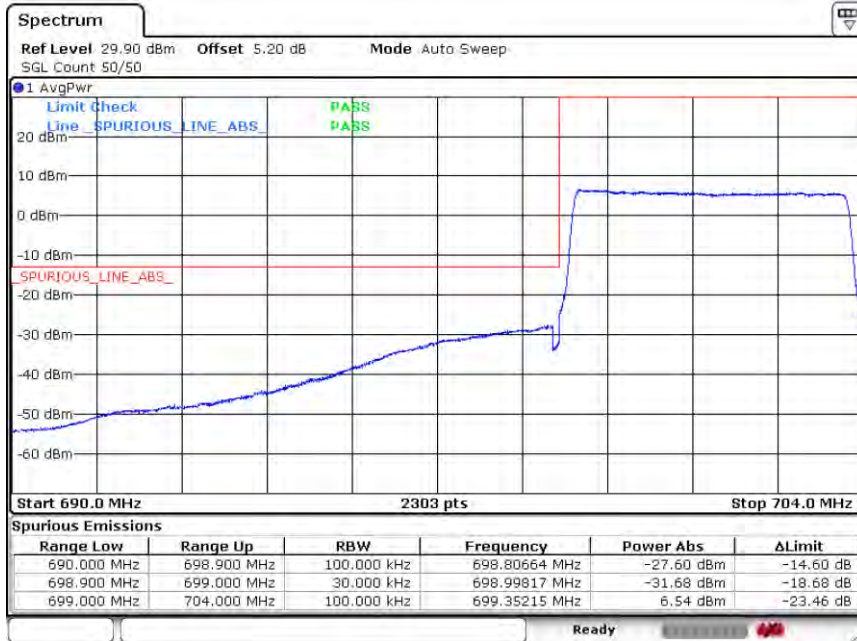
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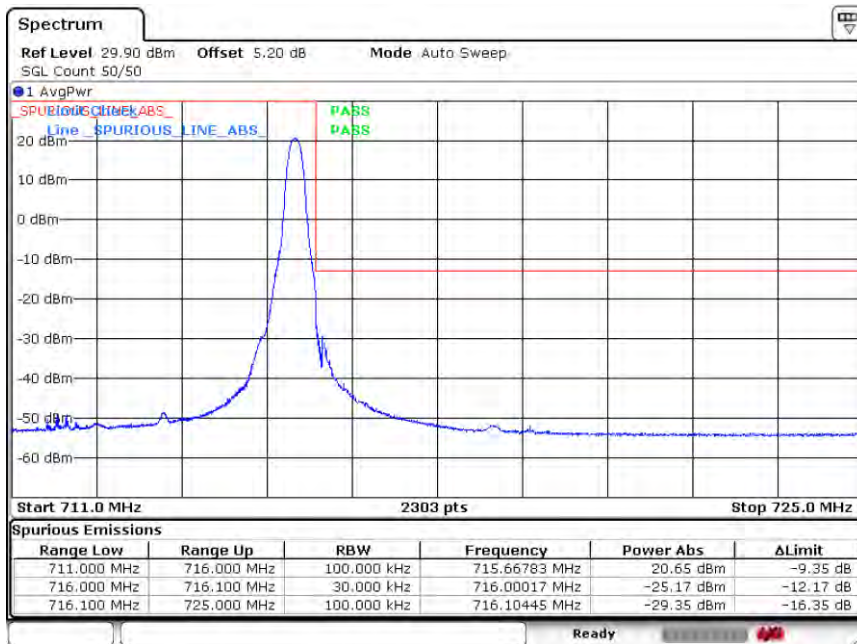


**Band12-5MHz-64QAM-23035-25RB#0**



Date: 25.FEB 2021 16:29:37

**Band12-5MHz-64QAM-23155-1RB#24**

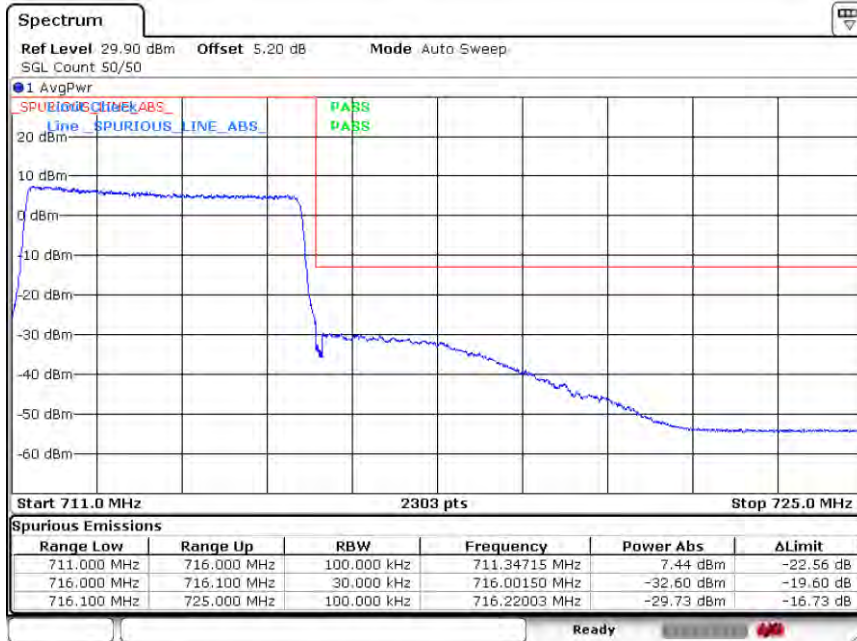


Date: 25.FEB 2021 16:44:22



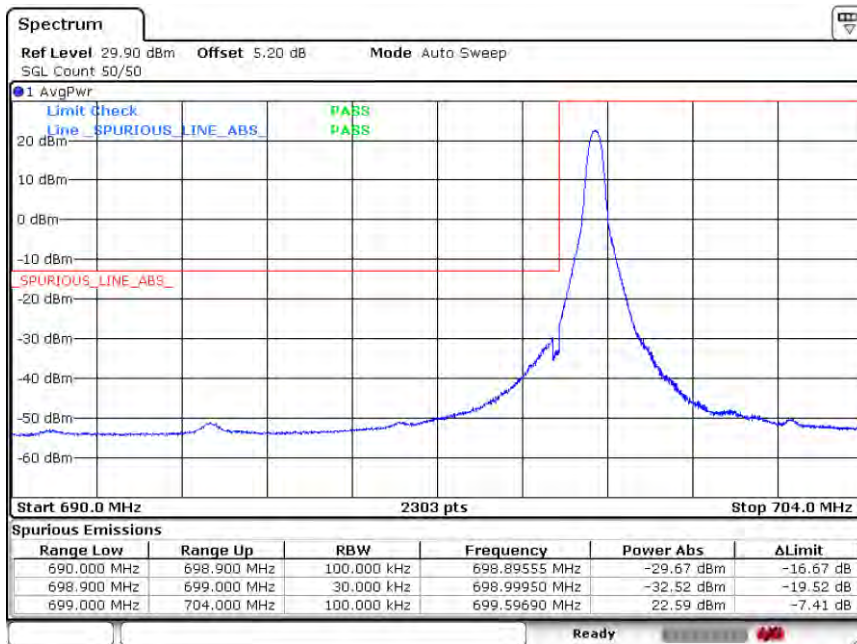
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**Band12-5MHz-64QAM-23155-25RB#0**



Date: 25.FEB 2021 16:41:09

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

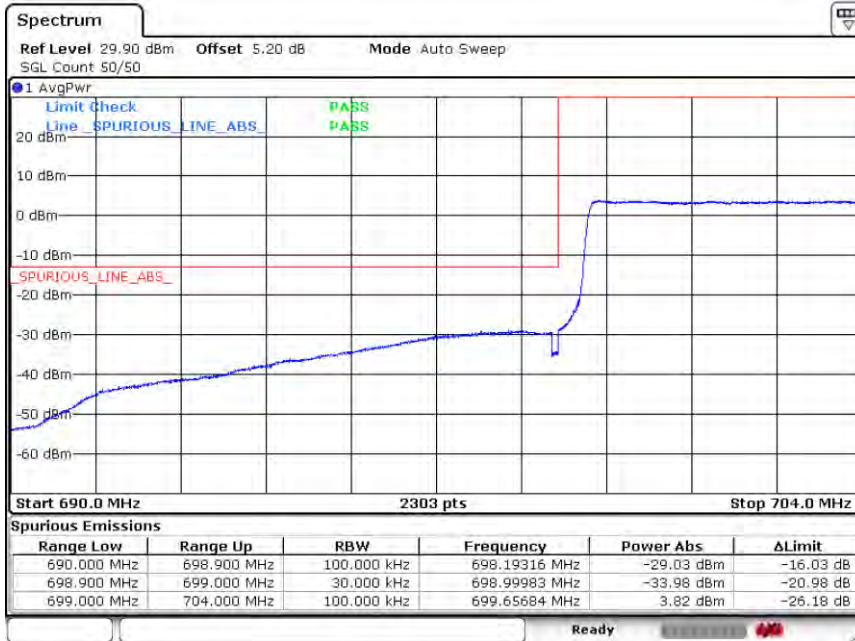


Date: 25.FEB 2021 16:35:17



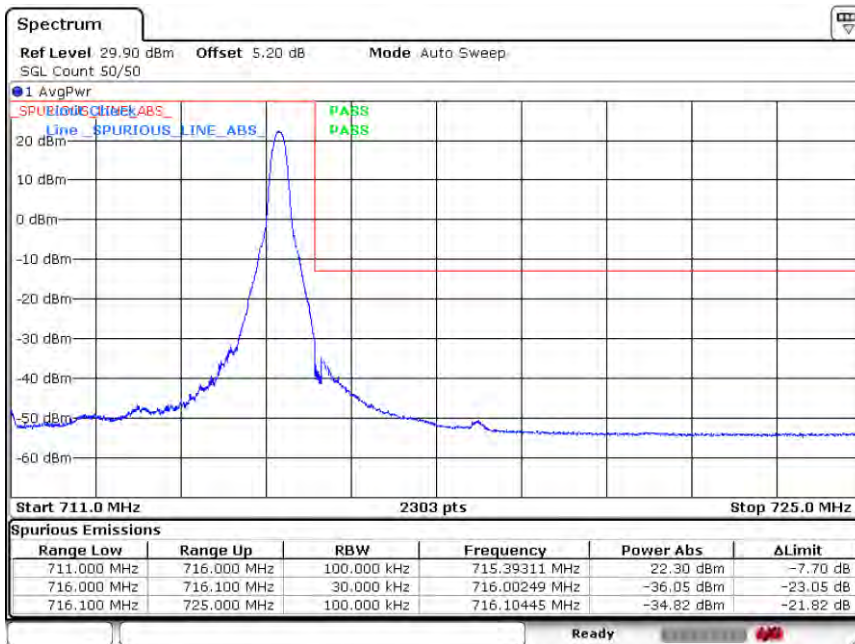
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**Band12-10MHz-QPSK-23060-50RB#0**



Date: 25.FEB 2021 16:34:48

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

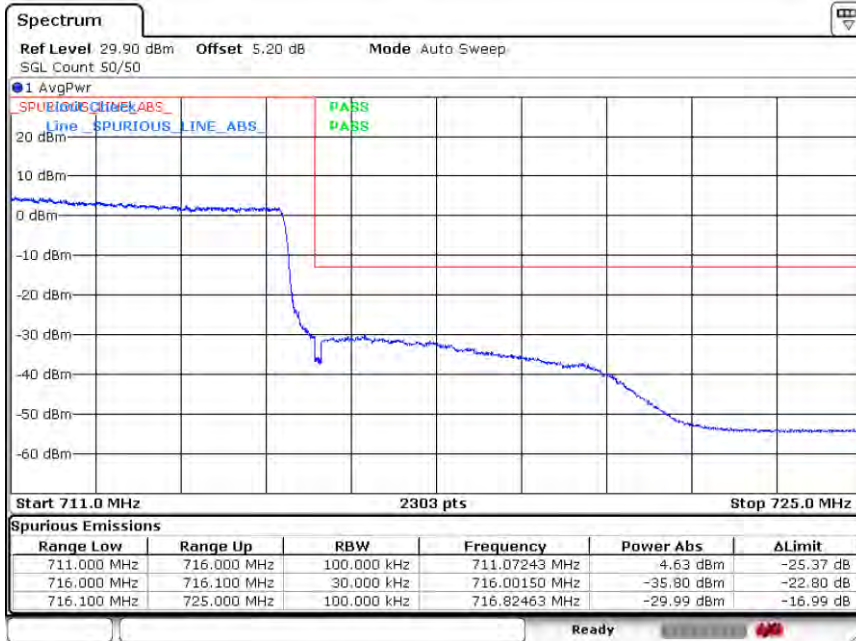


Date: 25.FEB 2021 16:38:55



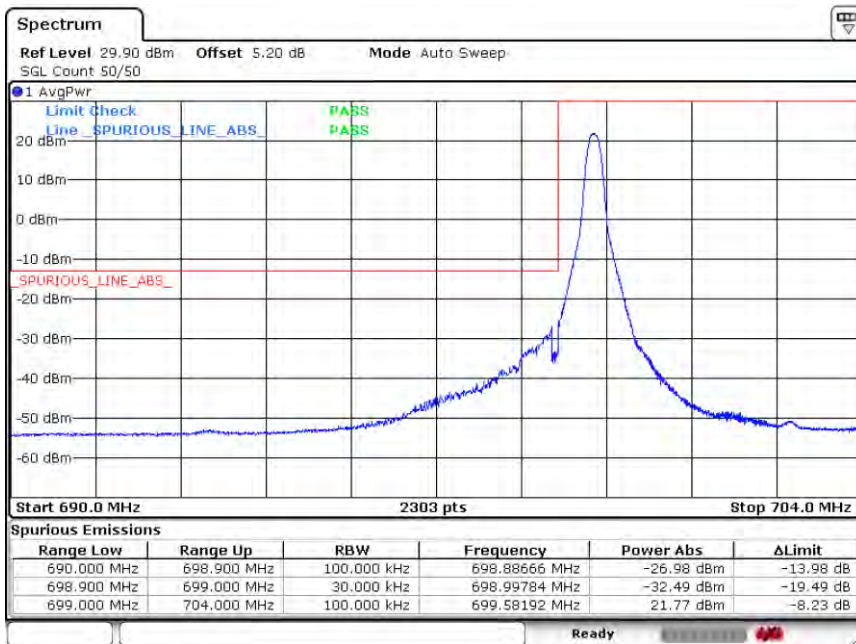
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**Band12-10MHz-QPSK-23130-50RB#0**



Date: 25.FEB 2021 16:39:22

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

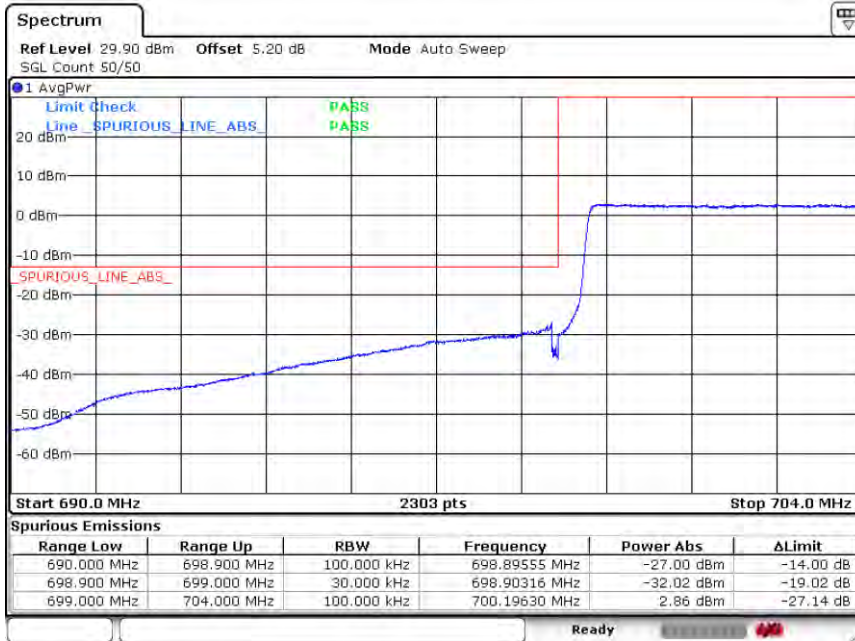


Date: 25.FEB 2021 16:35:55



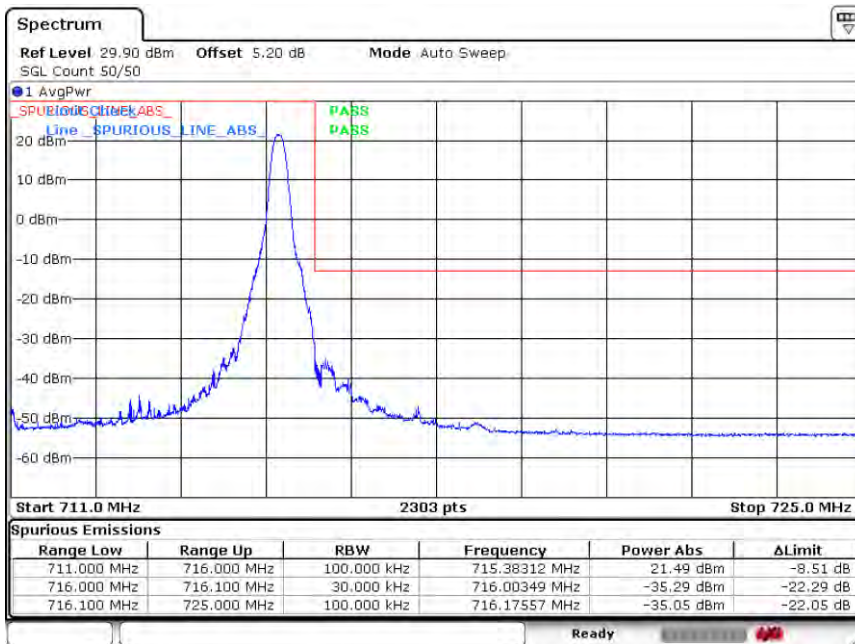
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**Band12-10MHz-16QAM-23060-50RB#0**



Date: 25.FEB 2021 16:34:13

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

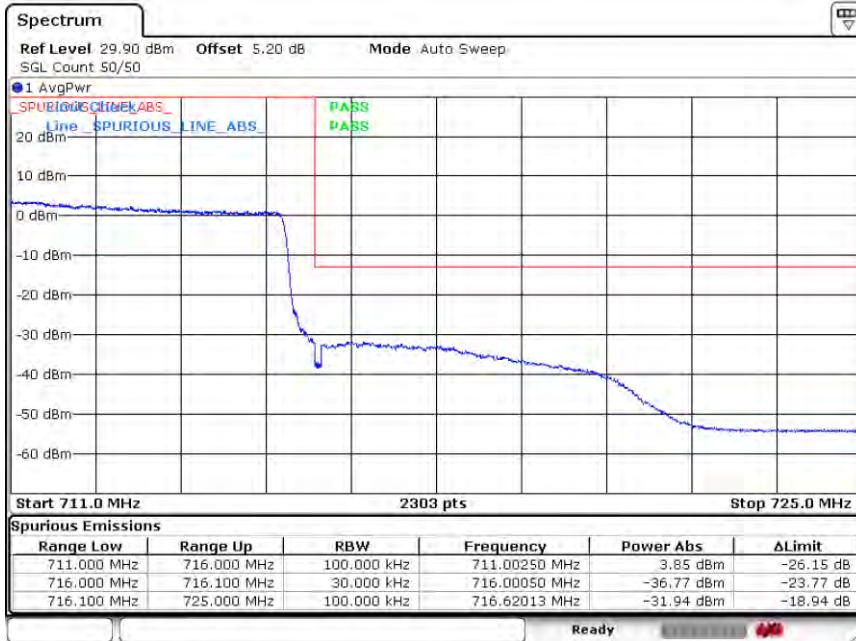


Date: 25.FEB 2021 16:38:27



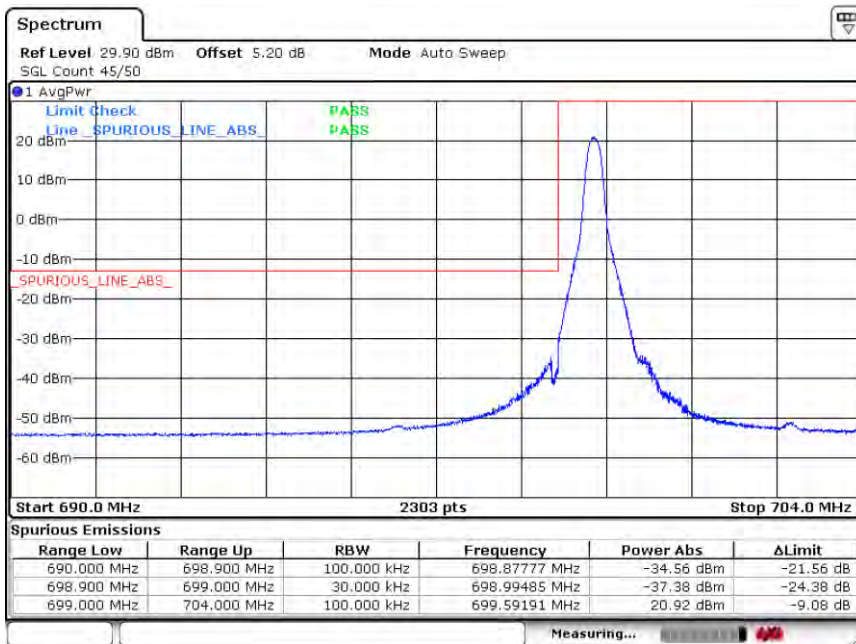
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**Band12-10MHz-16QAM-23130-50RB#0**



Date: 25.FEB 2021 16:39:57

**Band12-10MHz-64QAM-23060-1RB#0**

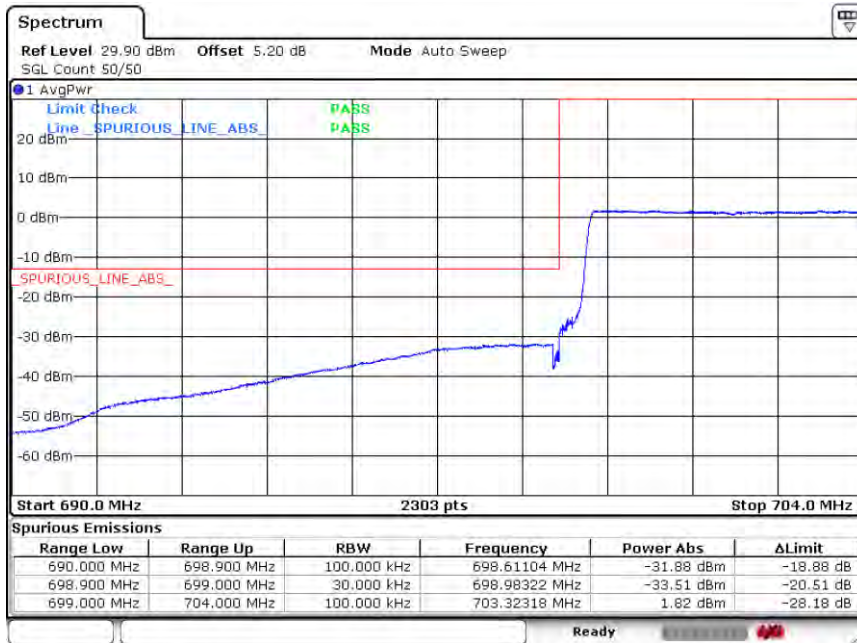


Date: 25.FEB 2021 16:36:19



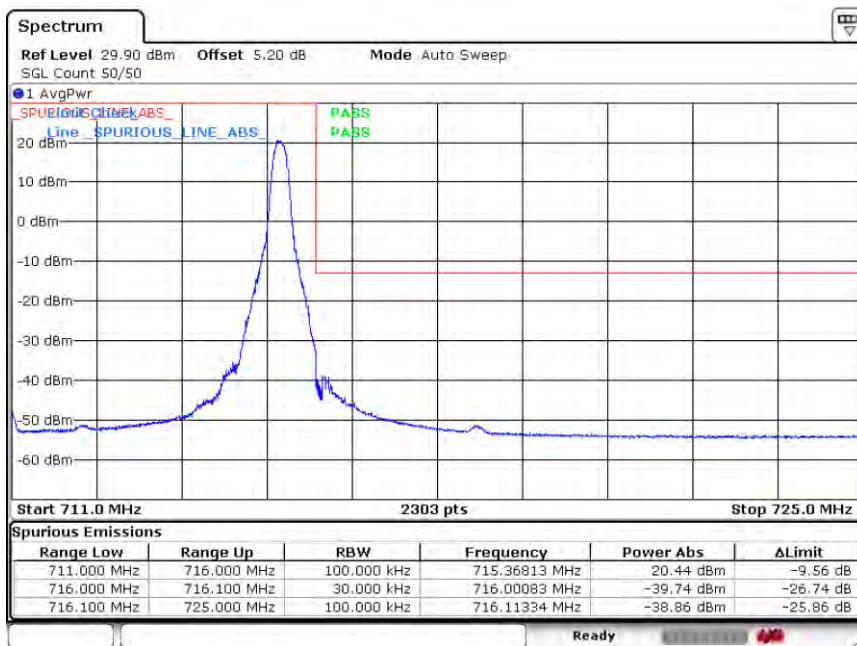
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**Band12-10MHz-64QAM-23060-50RB#0**



Date: 25.FEB 2021 16:33:38

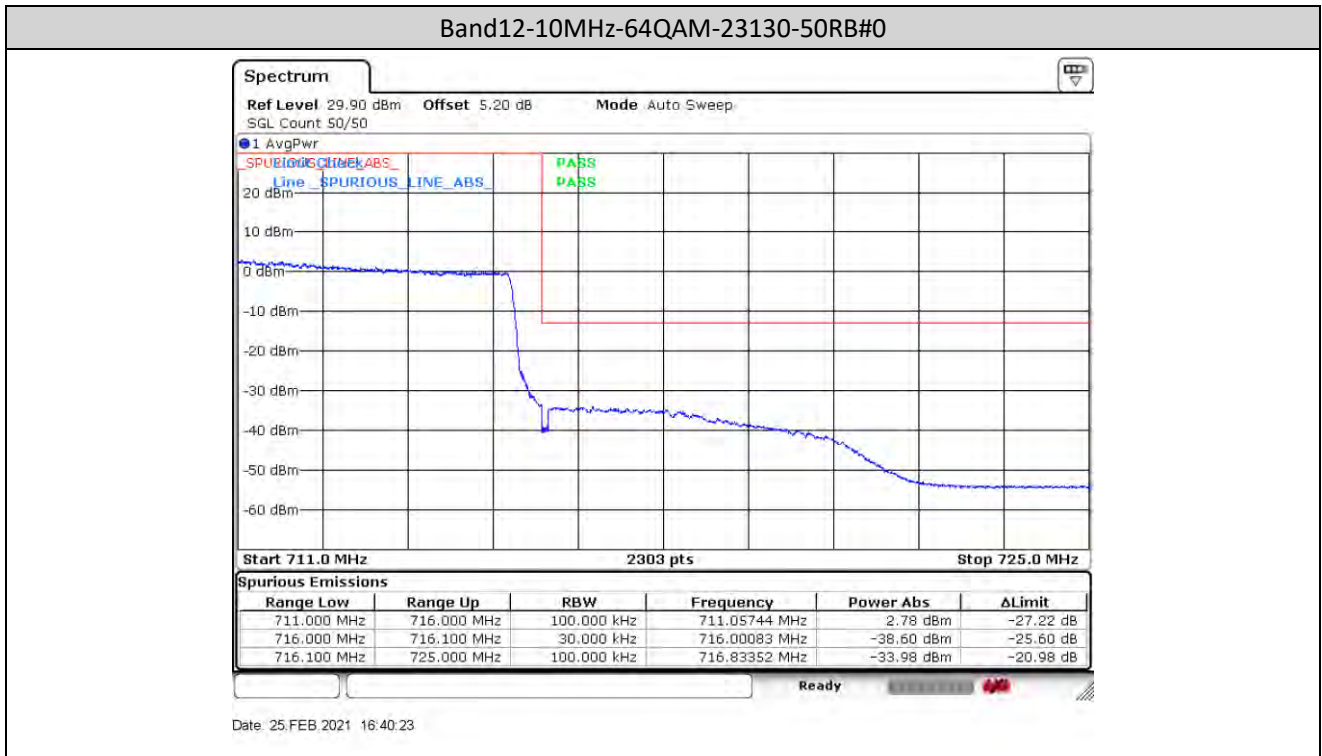
**Band12-10MHz-64QAM-23130-1RB#49**



Date: 25.FEB 2021 16:37:53



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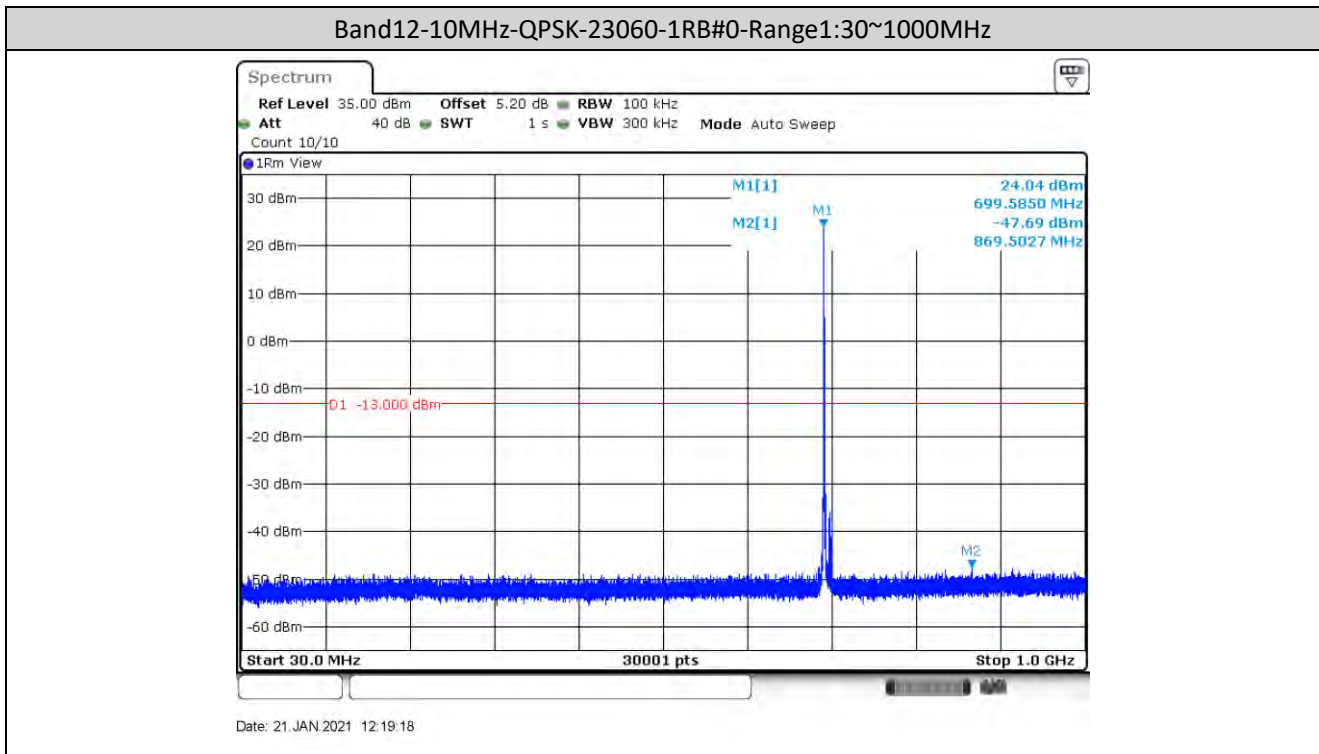


## 6. Spurious Emission at Antenna Terminal

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 =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

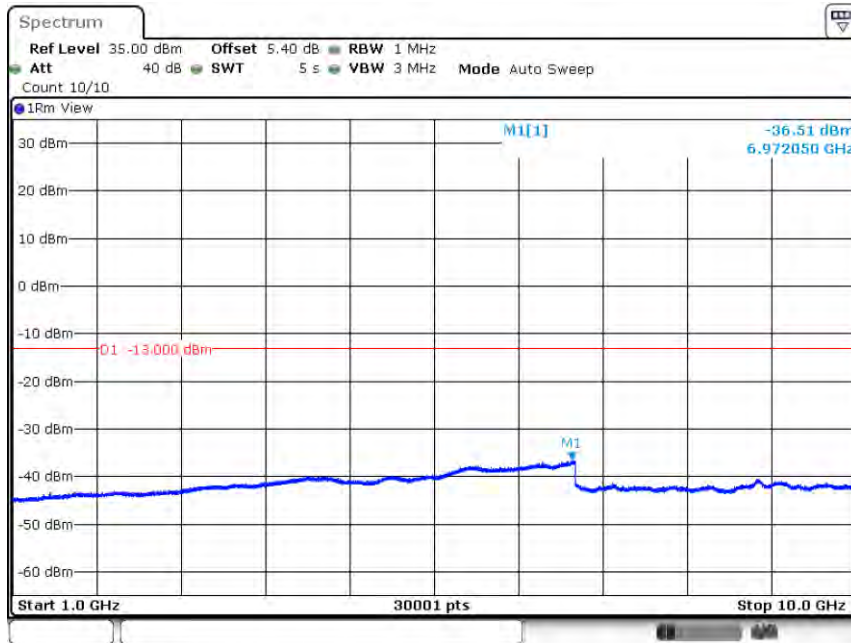
### 6.1. Test Plots



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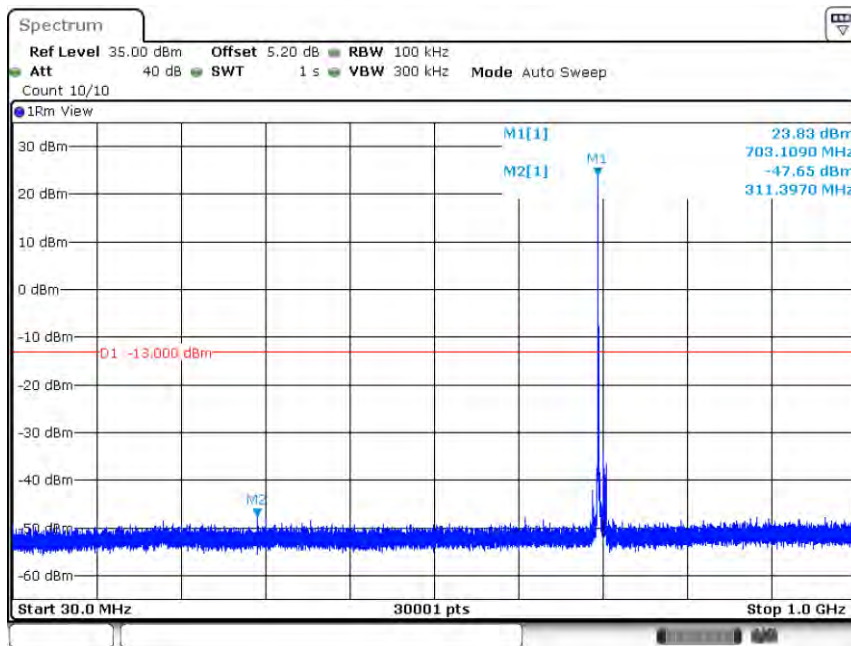
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**Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 12:20:25

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

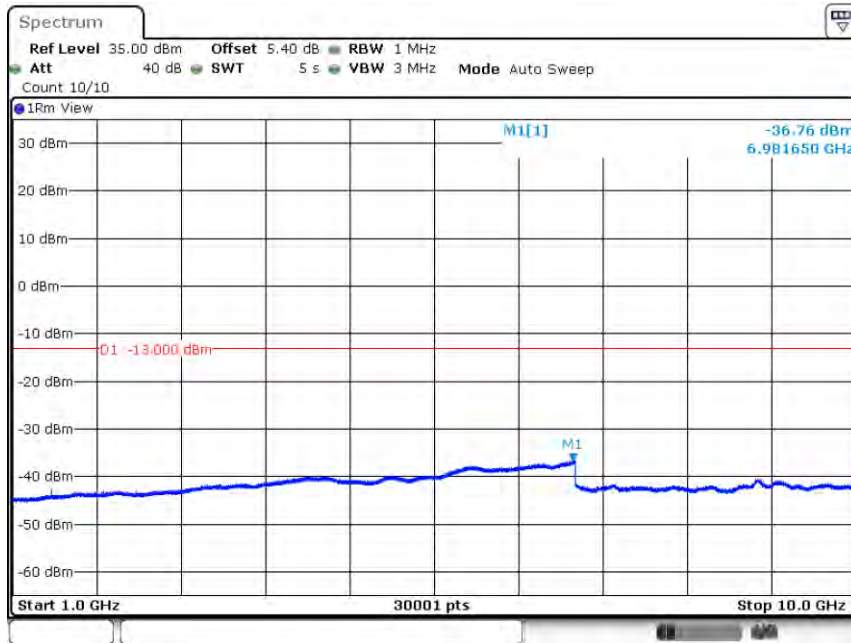


Date: 21. JAN 2021 12:22:13



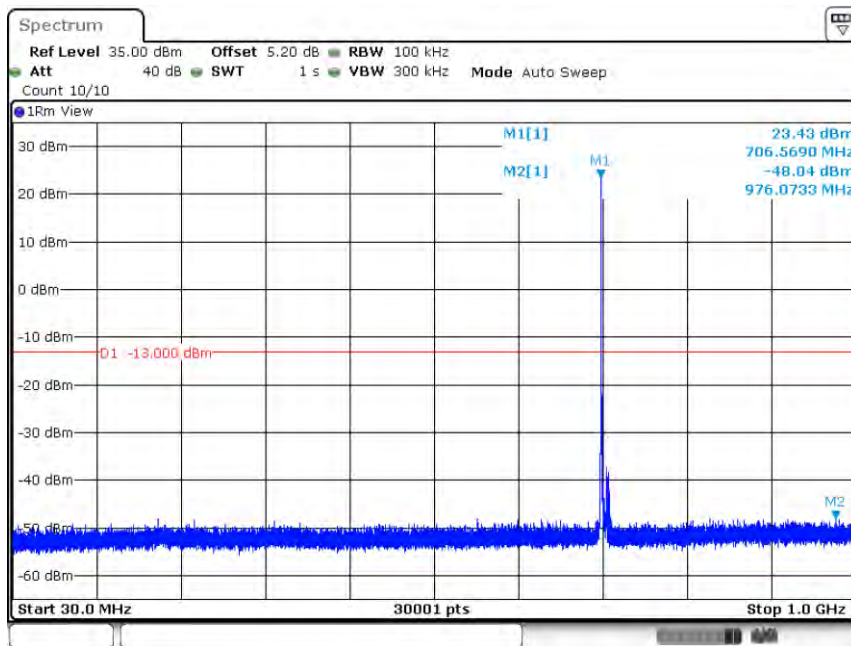
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**Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 12:23:20

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

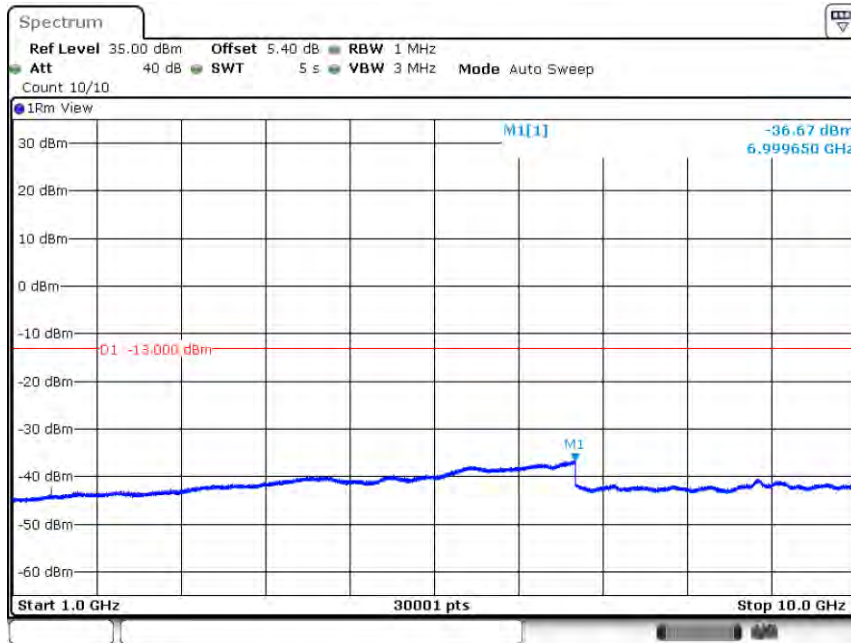


Date: 21. JAN 2021 12:25:08



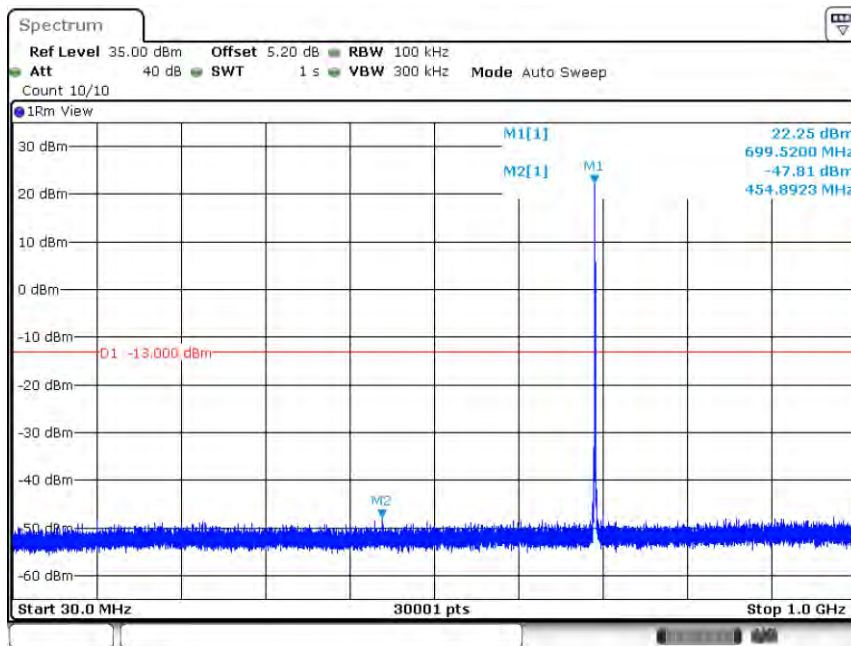
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**Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 12:26:15

**Band12-10MHz-64QAM-23060-1RB#0-Range1:30~1000MHz**



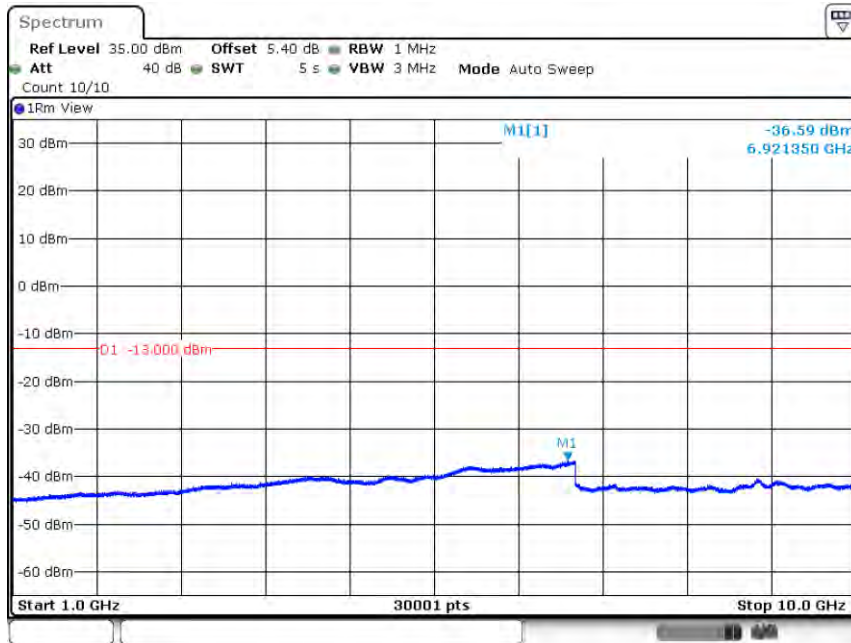
Date: 21. JAN 2021 14:08:44



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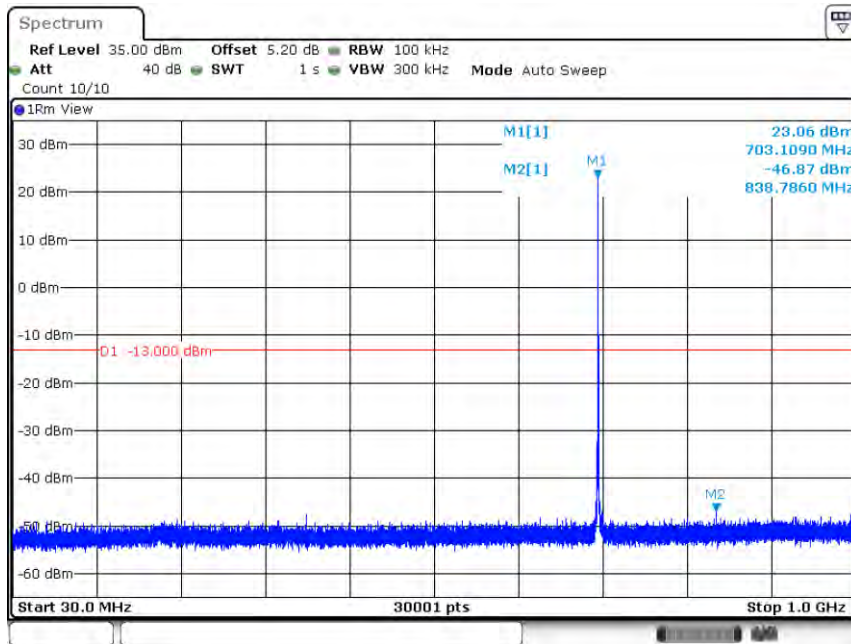
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**Band12-10MHz-64QAM-23060-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 14:09:51

**Band12-10MHz-64QAM-23095-1RB#0-Range1:30~1000MHz**

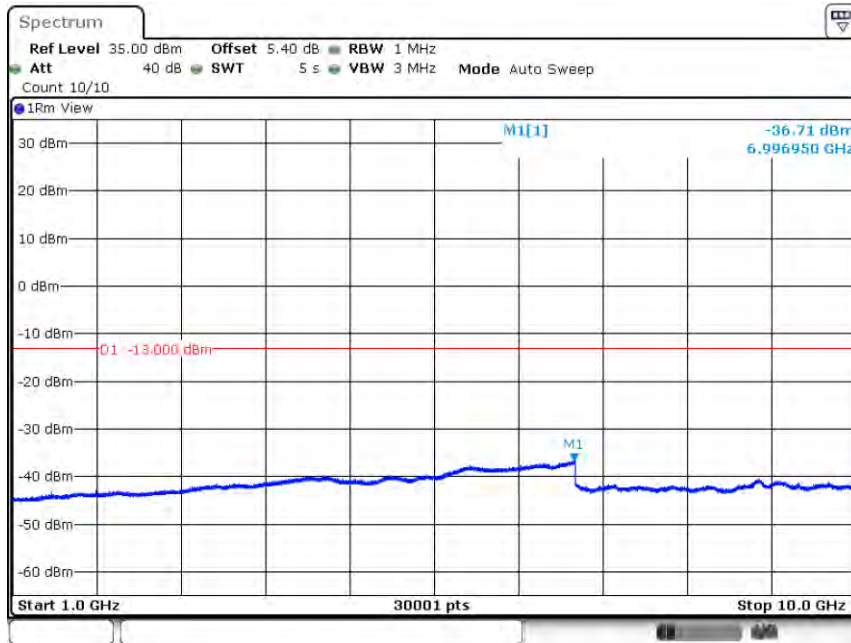


Date: 21. JAN 2021 14:10:11



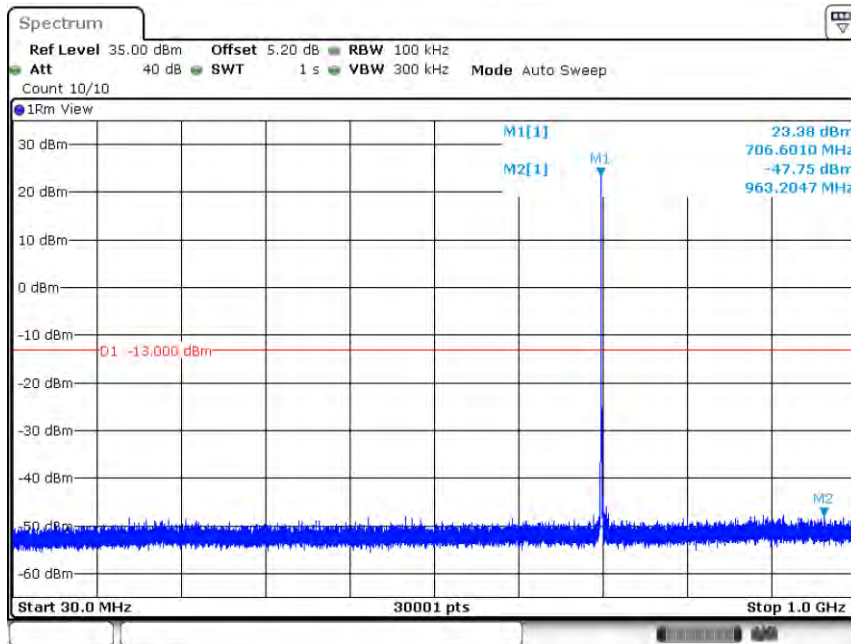
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**Band12-10MHz-64QAM-23095-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 14:11:18

**Band12-10MHz-64QAM-23130-1RB#0-Range1:30~1000MHz**

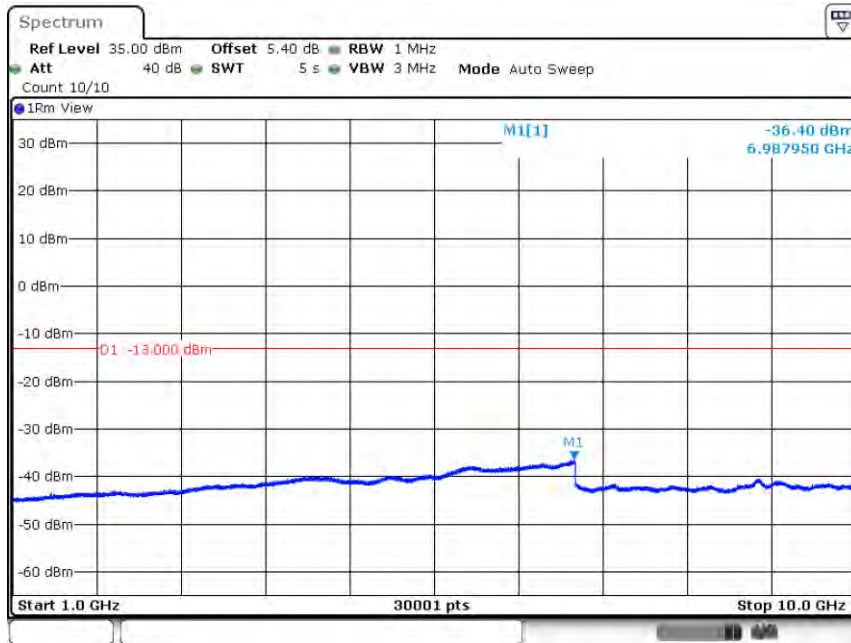


Date: 21. JAN 2021 14:11:38



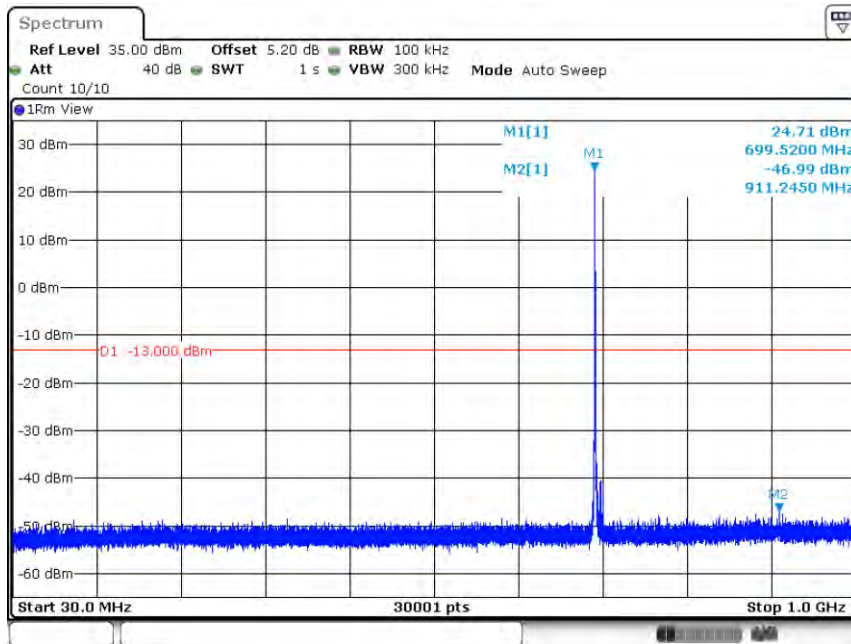
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**Band12-10MHz-64QAM-23130-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 14:12:46

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

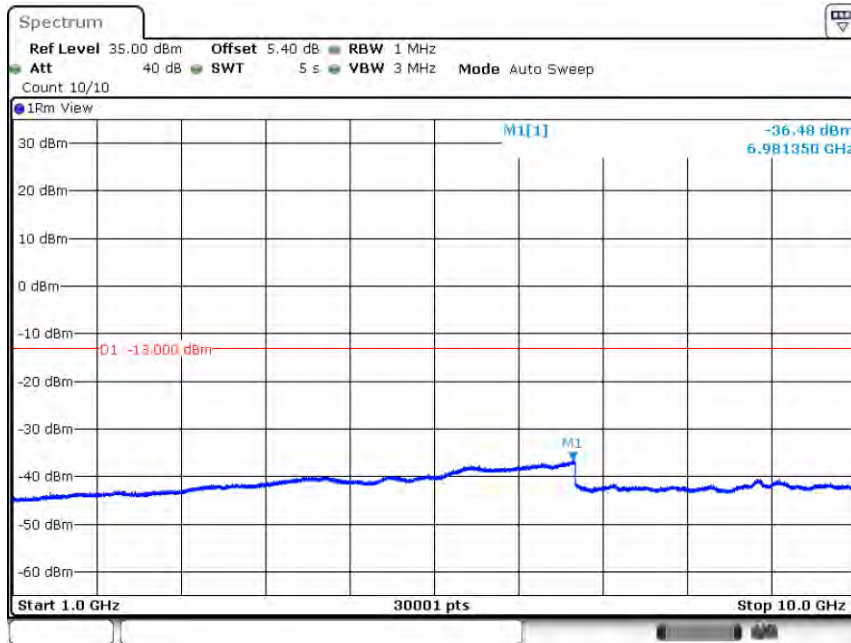


Date: 21. JAN 2021 12:20:46



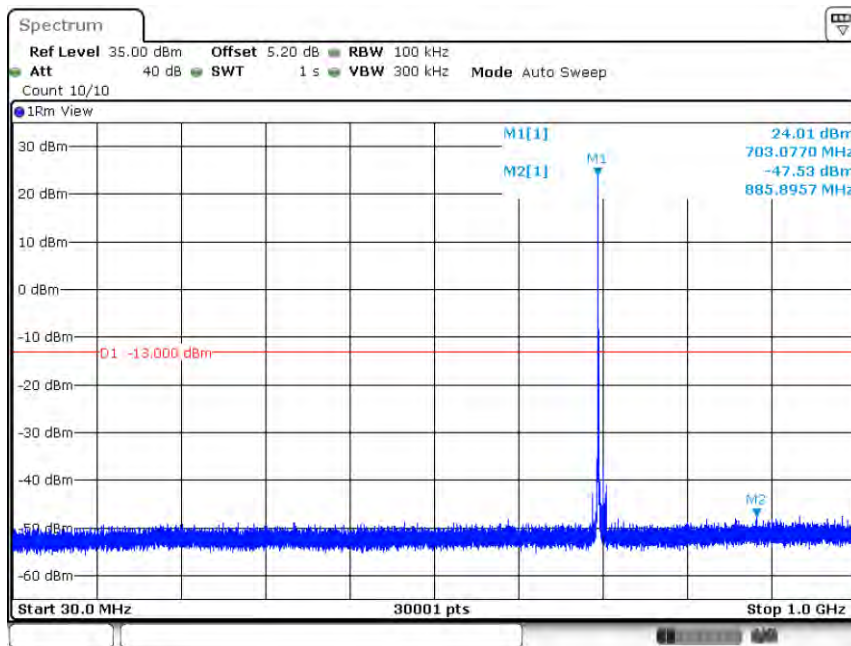
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**Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 12:21:53

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



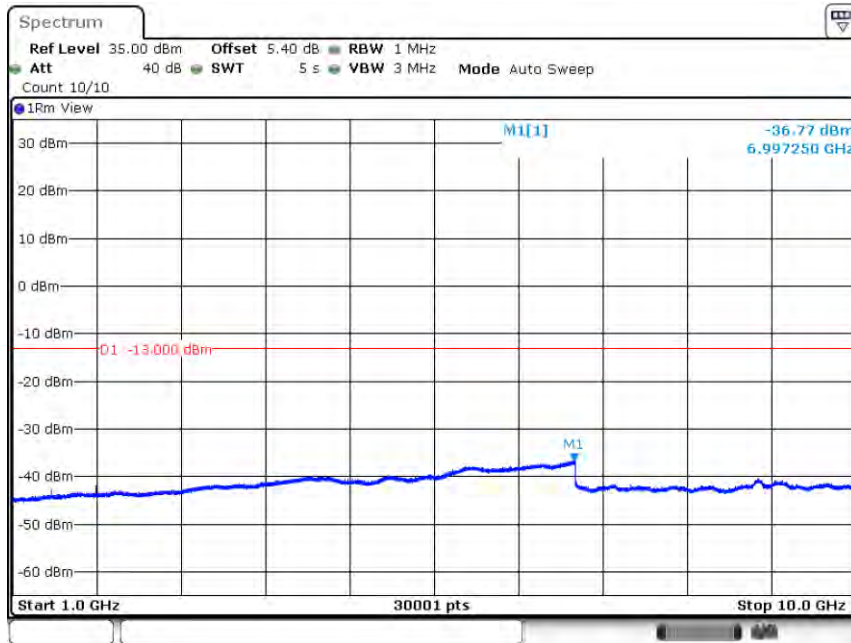
Date: 21. JAN 2021 12:23:40



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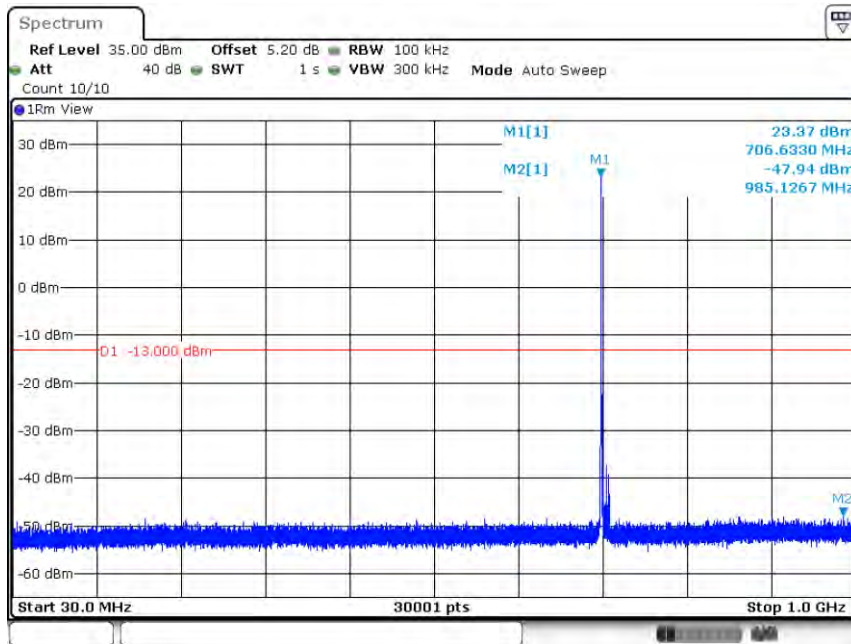


**Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz**



Date: 21. JAN 2021 12:24:48

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

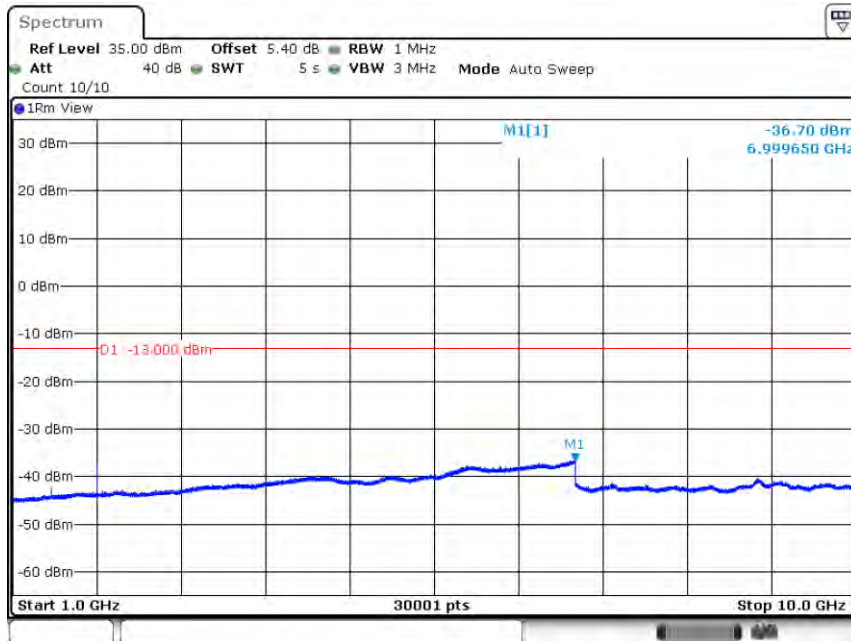


Date: 21. JAN 2021 12:26:35



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



Date: 21 JAN 2021 12:27:42



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE\_B12 TM1 10MHz

#### 7.1.1. Test Channel = LCH\_Horizontal

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	61.826667	-67.80	-13.00	54.80	Horizontal
2	104.293333	-78.72	-13.00	65.72	Horizontal
3	165.566667	-73.22	-13.00	60.22	Horizontal
4	1416.500000	-54.52	-13.00	41.52	Horizontal
5	4317.225000	-54.33	-13.00	41.33	Horizontal
6	7968.925000	-51.11	-13.00	38.11	Horizontal

#### 7.1.2. Test Channel = LCH\_Vertical

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	55.153333	-73.26	-13.00	60.26	Vertical
2	121.373333	-79.35	-13.00	66.35	Vertical
3	225.626667	-75.10	-13.00	62.10	Vertical
4	2099.000000	-43.95	-13.00	30.95	Vertical
5	4278.225000	-55.78	-13.00	42.78	Vertical
6	7156.425000	-52.66	-13.00	39.66	Vertical



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### 7.1.3. Test Channel = MCH\_Horizontal

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	54.826667	-68.22	-13.00	55.22	Horizontal
2	104.293333	-79.21	-13.00	66.21	Horizontal
3	170.280000	-72.92	-13.00	59.92	Horizontal
4	2109.500000	-46.35	-13.00	33.35	Horizontal
5	6066.050000	-53.48	-13.00	40.48	Horizontal
6	7755.075000	-52.08	-13.00	39.08	Horizontal

### 7.1.4. Test Channel = MCH\_Vertical

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	62.060000	-72.26	-13.00	59.26	Vertical
2	121.373333	-77.82	-13.00	64.82	Vertical
3	164.820000	-76.35	-13.00	63.35	Vertical
4	2231.500000	-47.08	-13.00	34.08	Vertical
5	4317.225000	-55.16	-13.00	42.16	Vertical
6	7072.250000	-53.08	-13.00	40.08	Vertical



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**7.1.5.Test Channel = HCH\_Horizontal**

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	63.180000	-67.35	-13.00	54.35	Horizontal
2	104.293333	-77.36	-13.00	64.36	Horizontal
3	266.086667	-77.33	-13.00	64.33	Horizontal
4	2119.500000	-45.62	-13.00	32.62	Horizontal
5	4289.275000	-55.48	-13.00	42.48	Horizontal
6	7736.550000	-52.59	-13.00	39.59	Horizontal

**7.1.6.Test Channel = HCH\_Vertical**

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	54.733333	-72.53	-13.00	59.53	Vertical
2	120.066667	-77.44	-13.00	64.44	Vertical
3	294.226667	-78.02	-13.00	65.02	Vertical
4	2120.000000	-47.49	-13.00	34.49	Vertical
5	4287.325000	-55.58	-13.00	42.58	Vertical
6	7108.650000	-52.63	-13.00	39.63	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 above 18GHz and 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.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	1.40	0.001989	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.20	-0.000283	±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	0.30	0.000424	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-1.40	-0.001969	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	-1.00	-0.001420	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	-1.50	-0.002131	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	0.90	0.001272	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	1.20	0.001696	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	1.20	0.001696	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	0.40	0.000563	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	0.50	0.000710	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	0.60	0.000848	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-0.60	-0.000844	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	0.20	0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS



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## 8.2. Frequency Vs 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	0.10	0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	0.10	0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	0.40	0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	0.20	0.000284	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	1.00	0.001420	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.30	0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.90	0.001272	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.90	0.001272	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.30	0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.90	-0.001272	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.50	0.000707	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.40	0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	0.40	0.000563	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	0.60	0.000844	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	0.30	0.000422	±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	0.80	0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	0.30	0.000422	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-10	0.50	0.000710	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	40	-0.90	-0.001278	±2.5	PASS



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Band12	10MHz	64QAM	23060	50RB#0	NV	50	0.40	0.000568	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	1.00	0.001413	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-10	1.00	0.001413	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	1.50	0.002120	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	0.30	0.000424	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	-1.00	-0.001413	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	0.80	0.001131	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-10	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	0	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	-0.50	-0.000703	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	0.90	0.001266	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	0.20	0.000281	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	0.30	0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	0.70	0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	0.40	0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-0.40	-0.000565	±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	30	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	0.40	0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	0.80	0.001125	±2.5	PASS



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Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	0.20	0.000281	±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	30	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	0.60	0.000844	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	0.70	0.000985	±2.5	PASS



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