



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	22.26	20.61	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.50	20.85	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.30	20.65	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.39	20.74	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.38	20.73	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.45	20.80	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.54	19.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.34	20.69	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.36	20.71	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.17	20.52	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.33	20.68	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.32	20.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.38	20.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.36	19.71	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.24	20.59	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.47	20.82	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.32	20.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.43	20.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.34	20.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.47	20.82	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.51	19.86	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.54	19.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.01	20.36	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.64	19.99	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.55	19.90	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.56	19.91	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.51	19.86	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.73	19.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.28	19.63	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.99	20.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.59	19.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.30	19.65	34.77	PASS



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Band12	1.4MHz	16QAM	23095	3RB#1	21.50	19.85	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.34	19.69	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.41	18.76	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.37	19.72	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.03	20.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.61	19.96	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.43	19.78	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.46	19.81	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.39	19.74	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.40	18.75	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.35	20.70	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.55	20.90	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.35	20.70	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.38	19.73	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.40	19.75	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.54	19.89	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.49	19.84	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.35	20.70	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.32	20.67	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.40	20.75	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.45	19.80	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.48	19.83	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.46	19.81	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.48	19.83	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.23	20.58	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.39	20.74	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.32	20.67	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.47	19.82	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.43	19.78	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.43	19.78	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.45	19.80	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.99	20.34	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.20	20.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.35	19.70	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.63	18.98	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.56	18.91	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.40	18.75	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.53	18.88	34.77	PASS



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	3MHz	16QAM	23095	1RB#0	21.60	19.95	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.86	20.21	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.96	20.31	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.53	18.88	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.43	18.78	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.51	18.86	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.45	18.80	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.94	20.29	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.71	20.06	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.63	19.98	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.47	18.82	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.46	18.81	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.56	18.91	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.54	18.89	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.23	20.58	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.21	20.56	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.36	20.71	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.44	19.79	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.44	19.79	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.42	19.77	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.34	19.69	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.26	20.61	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.34	20.69	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.24	20.59	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.46	19.81	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.47	19.82	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.45	19.80	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.36	19.71	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.19	20.54	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.42	20.77	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.32	20.67	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.46	19.81	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.52	19.87	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.35	19.70	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.42	19.77	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.52	19.87	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.45	19.80	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.86	20.21	34.77	PASS



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Band12	5MHz	16QAM	23035	12RB#0	20.32	18.67	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.50	18.85	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.45	18.80	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.52	18.87	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.28	19.63	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.42	19.77	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.48	19.83	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.50	18.85	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.50	18.85	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.40	18.75	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.49	18.84	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.73	20.08	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.33	19.68	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.33	19.68	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.49	18.84	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.53	18.88	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.34	18.69	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.41	18.76	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.35	20.70	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.34	20.69	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.35	20.70	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.43	19.78	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.46	19.81	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.49	19.84	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.54	19.89	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.29	20.64	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.38	20.73	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.44	20.79	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.51	19.86	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.46	19.81	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.41	19.76	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.52	19.87	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.26	20.61	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.31	20.66	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.35	20.70	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.56	19.91	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.54	19.89	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.52	19.87	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	21.50	19.85	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.87	20.22	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.06	20.41	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.97	20.32	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.46	18.81	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.48	18.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.55	18.90	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.49	18.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.59	19.94	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.84	20.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.93	20.28	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.45	18.80	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.39	18.74	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.50	18.85	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.56	18.91	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.91	20.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.76	20.11	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.34	19.69	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.52	18.87	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.50	18.85	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.40	18.75	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.50	18.85	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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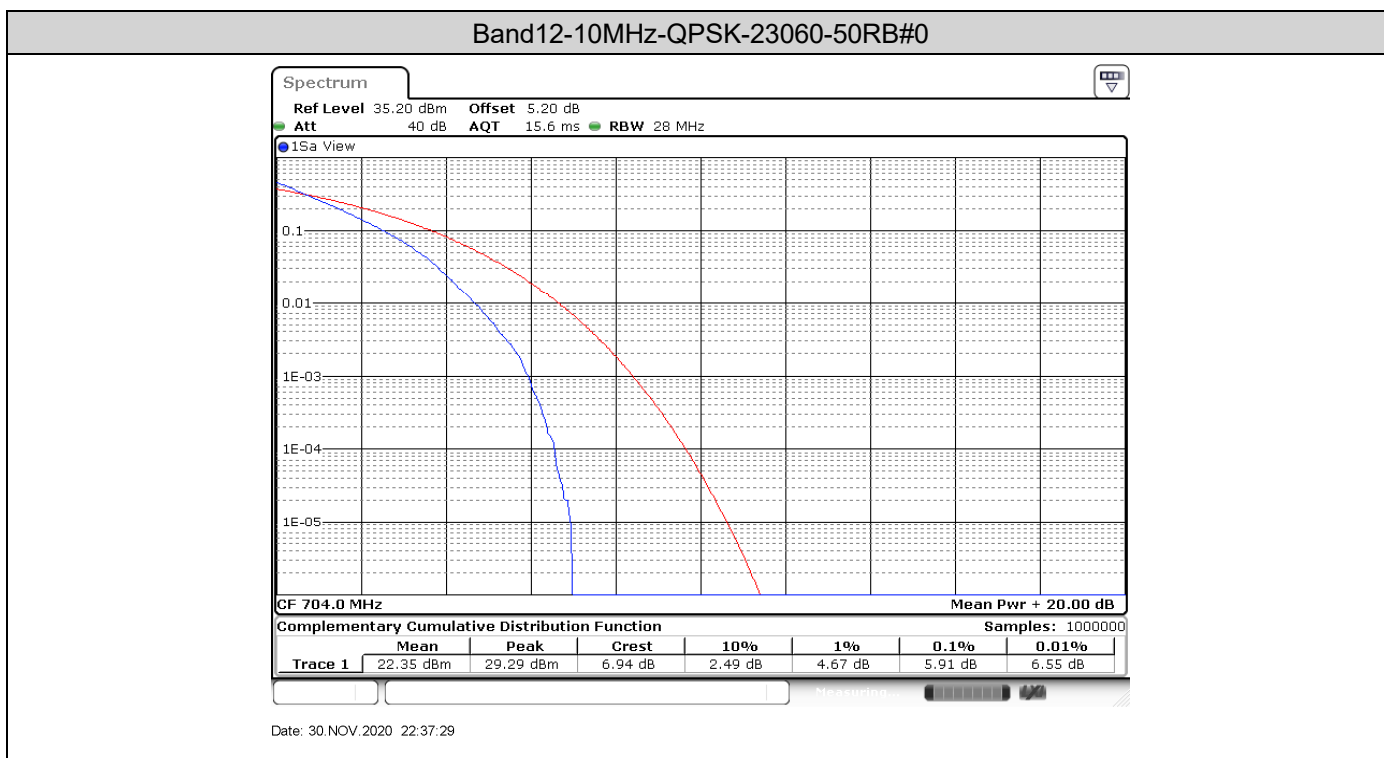


2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.91	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.88	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.52	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.58	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.49	13	PASS

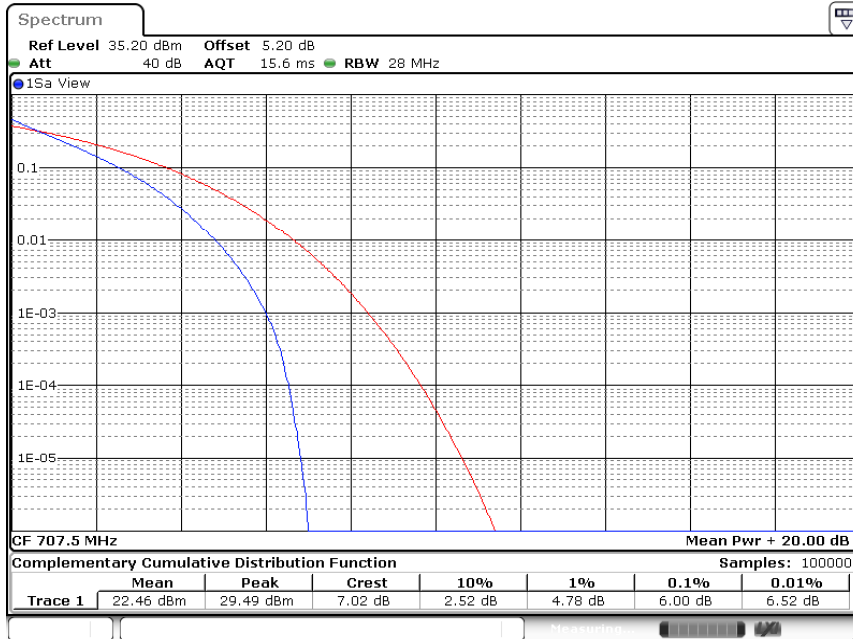
2.2 Test Plots



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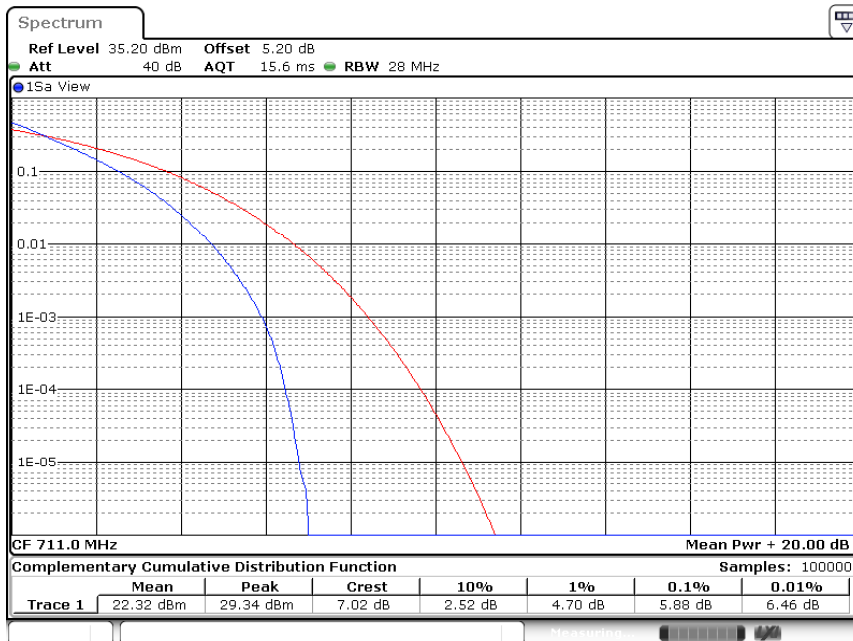
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Band12-10MHz-QPSK-23095-50RB#0



Date: 30.NOV.2020 22:37:52

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

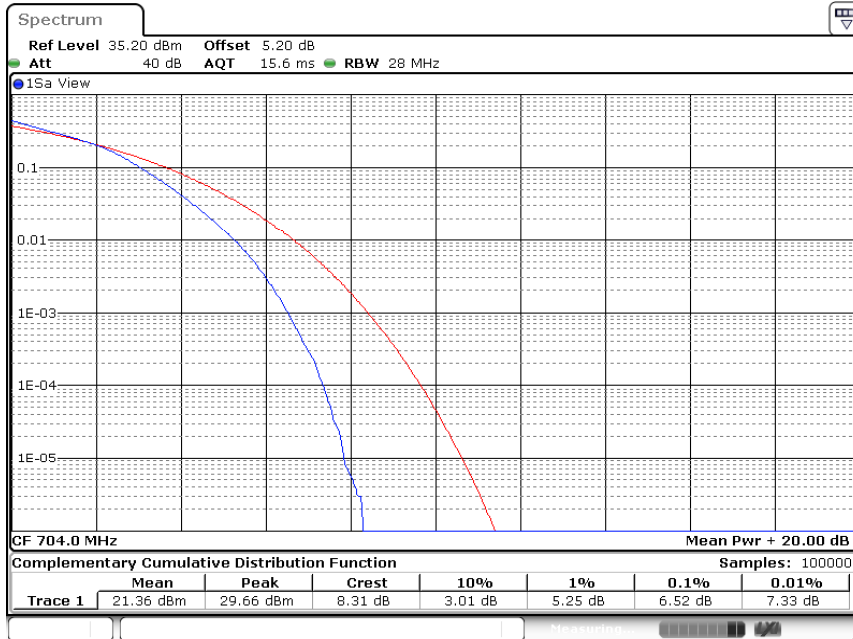


Date: 30.NOV.2020 22:38:14



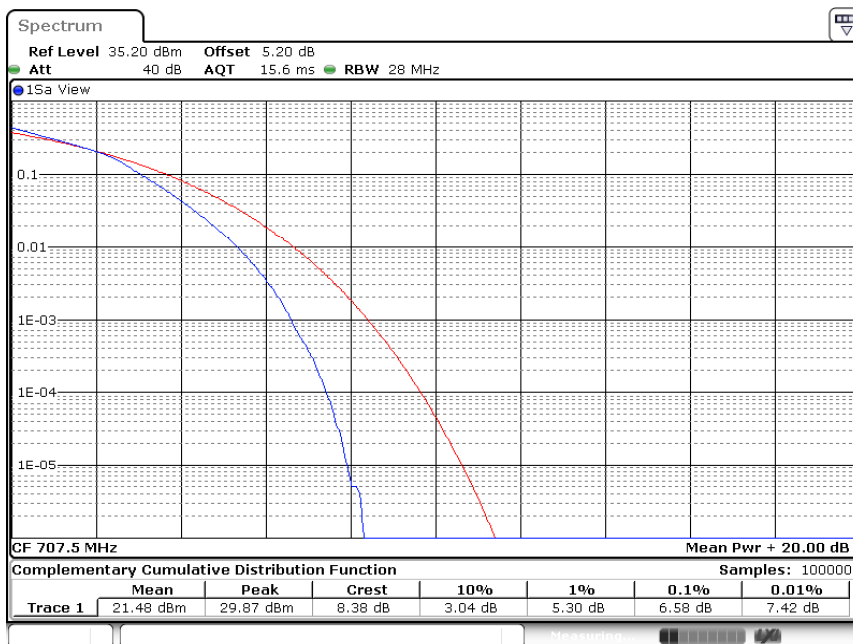
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Band12-10MHz-16QAM-23060-50RB#0



Date: 30.NOV.2020 22:37:40

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

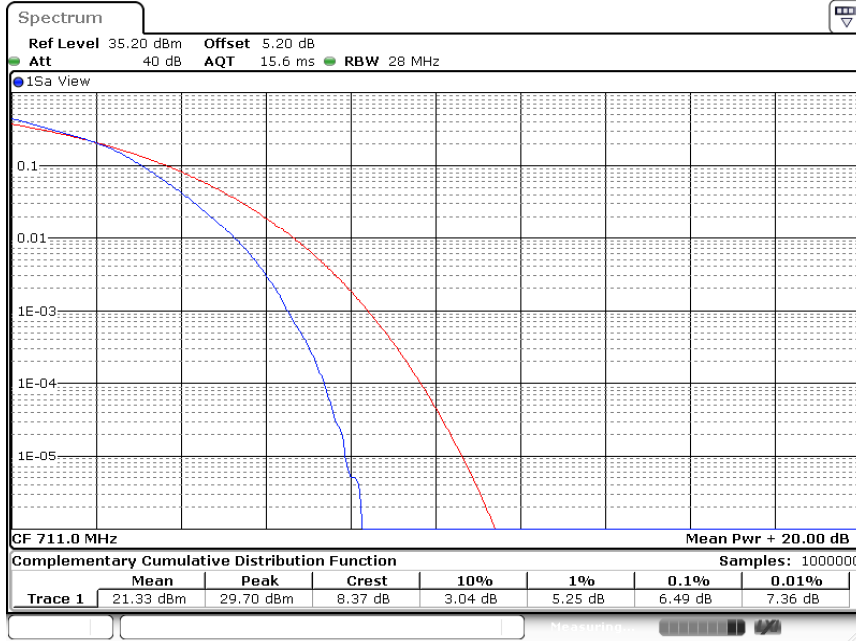


Date: 30.NOV.2020 22:38:03



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



Date: 30.NOV.2020 22:38:25



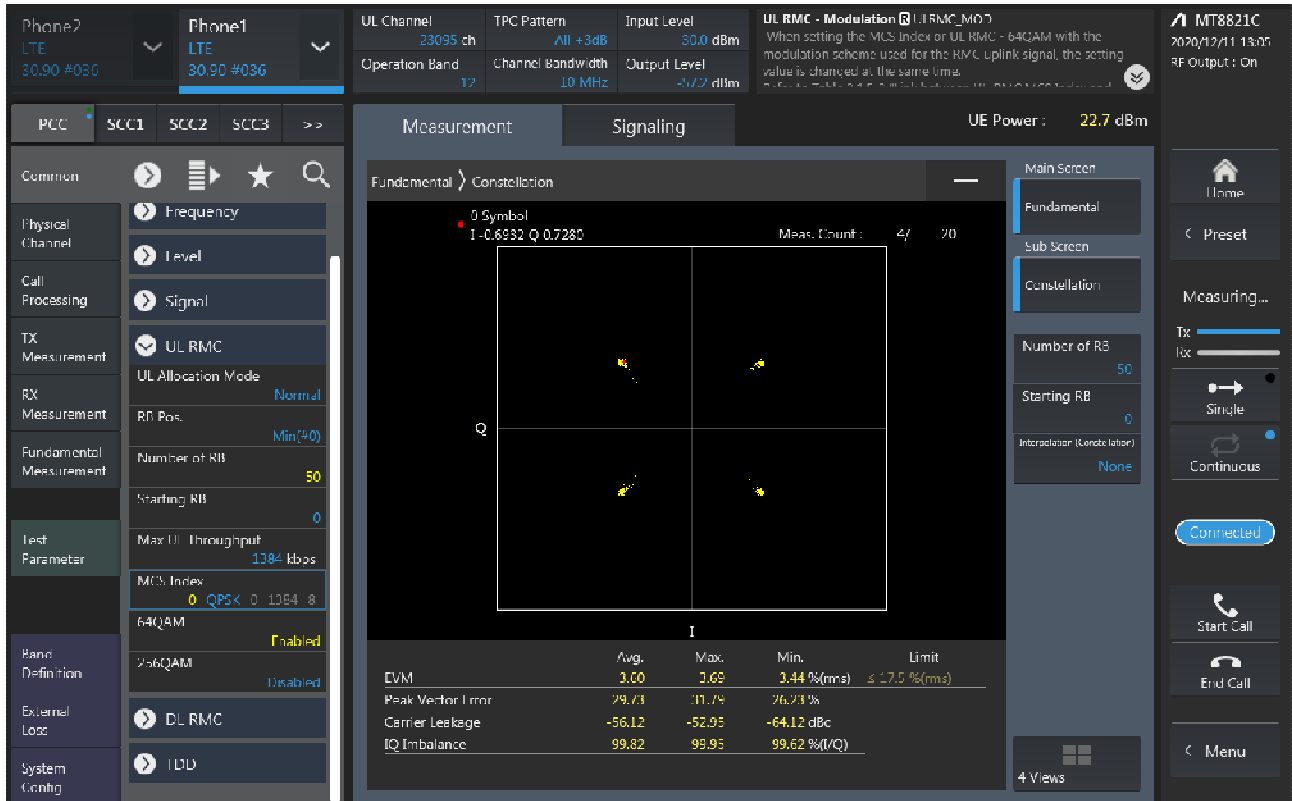
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3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

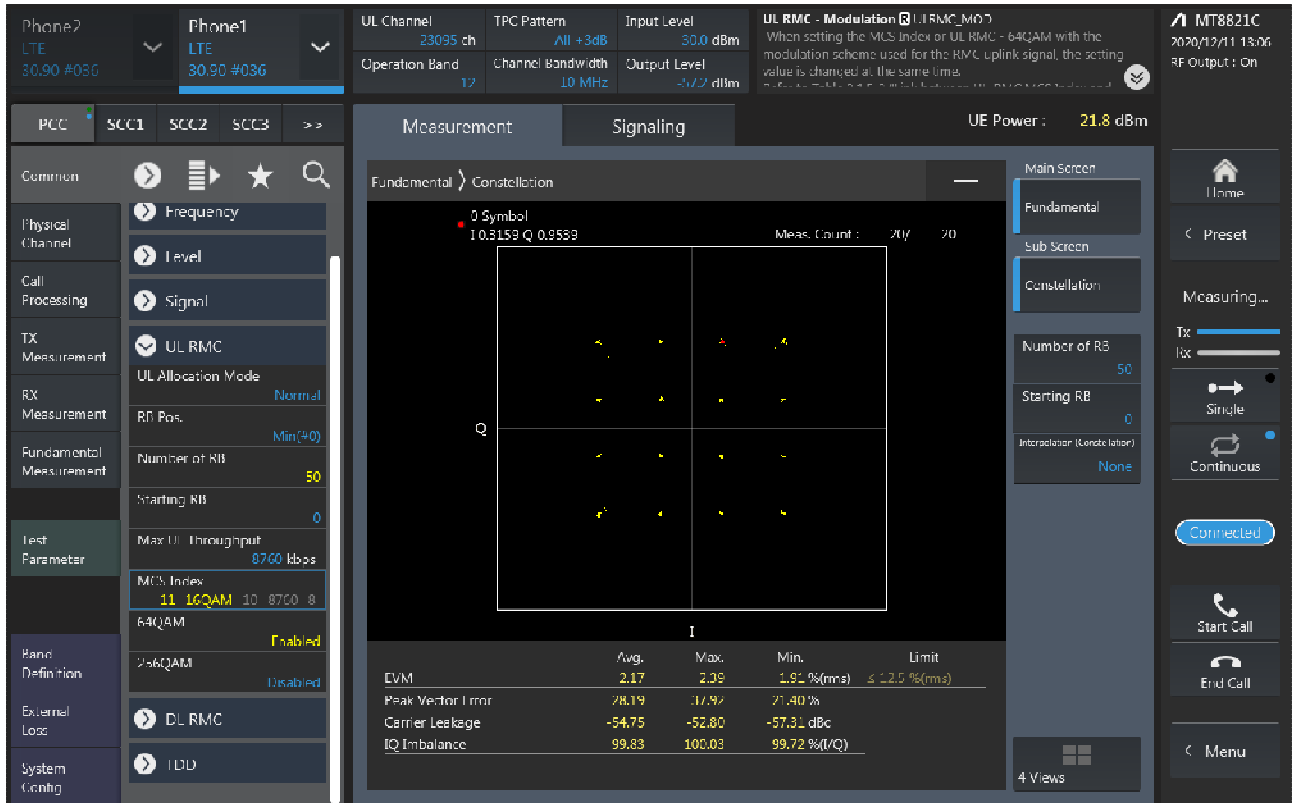
3.1.1 Test Channel = MCH



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3.2 Test Mode = LTE /TM2 10MHz

3.2.1 Test Channel = MCH



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4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

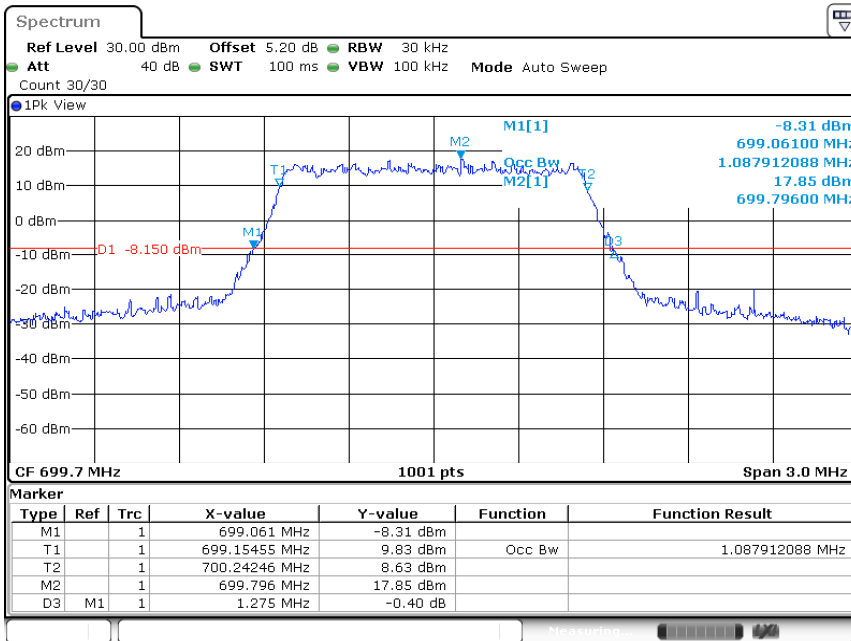
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.275	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.287	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.091	1.269	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.278	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.091	1.290	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.085	1.299	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.685	2.874	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.928	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.685	2.916	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.679	2.868	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.886	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.673	2.874	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	5.020	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.050	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	5.030	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	5.070	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	5.110	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	5.070	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.951	9.820	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.951	9.920	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.920	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.931	9.860	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.951	9.940	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.900	PASS



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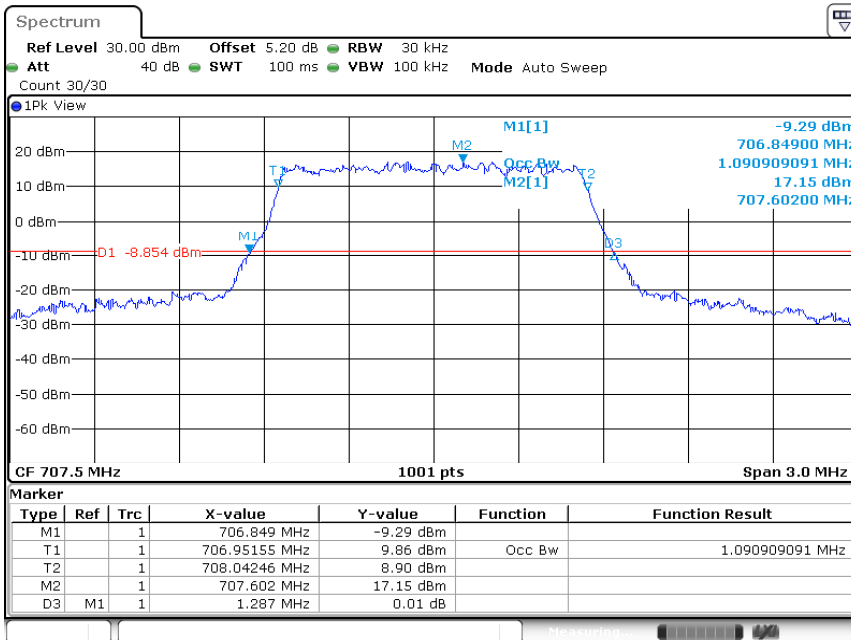
4.2 Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.088



Date: 30.NOV.2020 22:05:45

Band12-1.4MHz-QPSK-23095-6RB#0-1.091

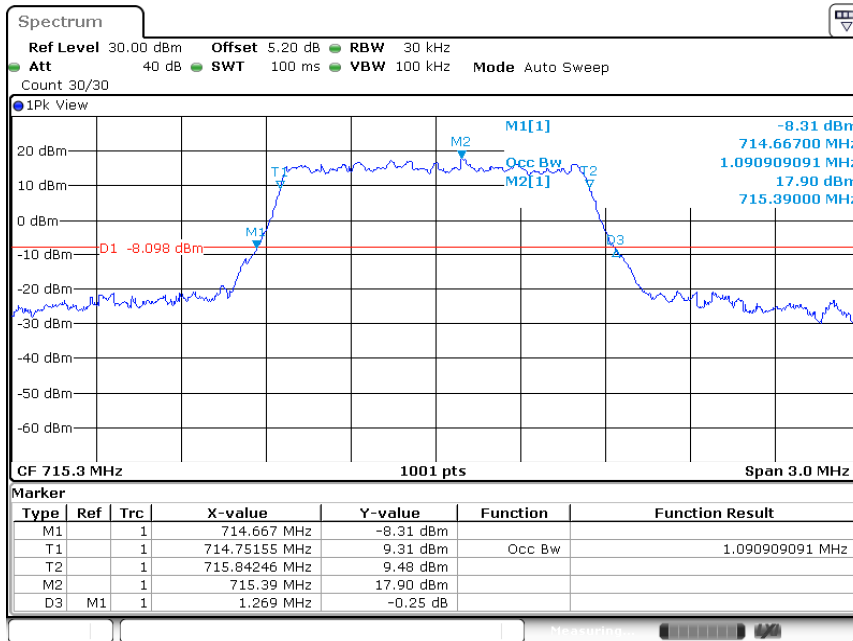


Date: 30.NOV.2020 22:06:11



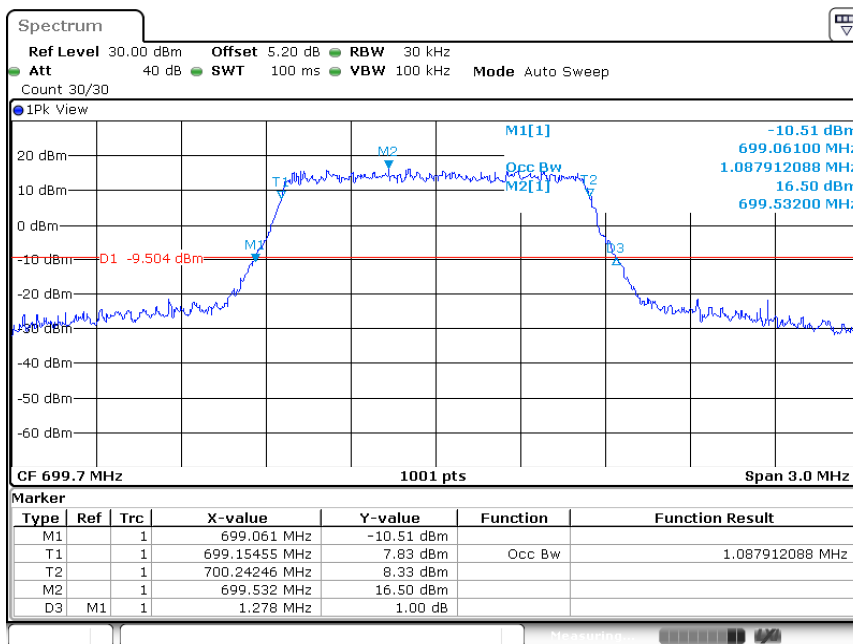
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Band12-1.4MHz-QPSK-23173-6RB#0-1.091



Date: 30.NOV.2020 22:06:36

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

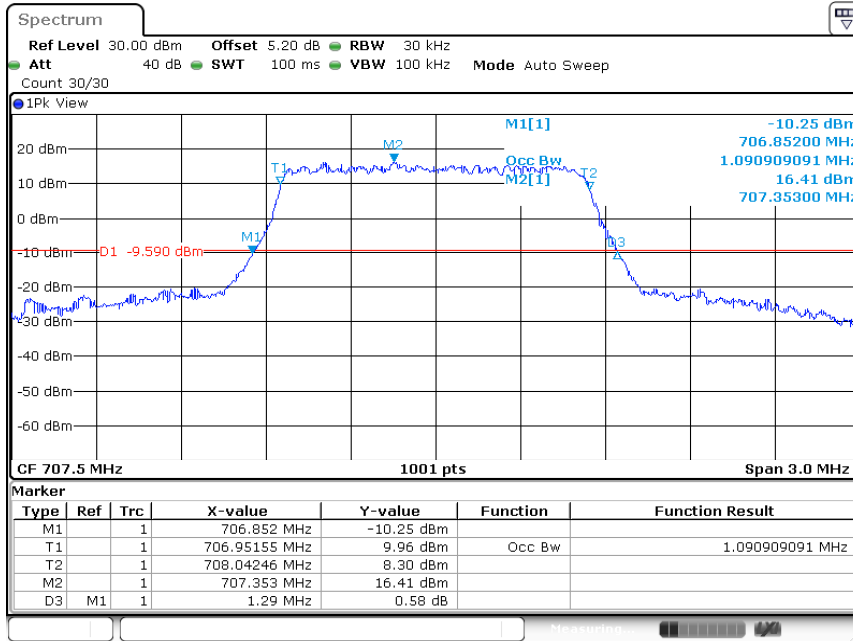


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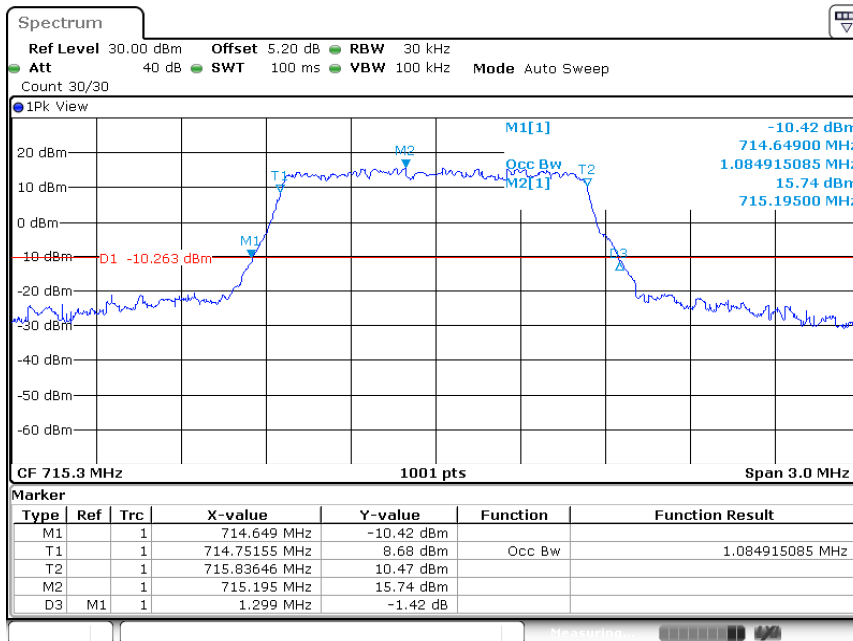
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Band12-1.4MHz-16QAM-23095-6RB#0-1.091



Date: 30.NOV.2020 22:06:23

Band12-1.4MHz-16QAM-23173-6RB#0-1.085

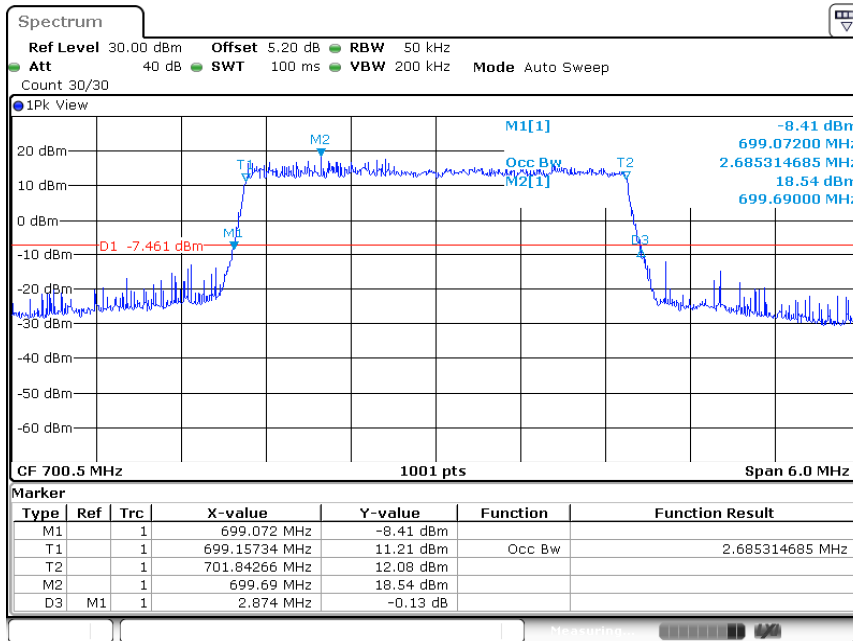


Date: 30.NOV.2020 22:06:49



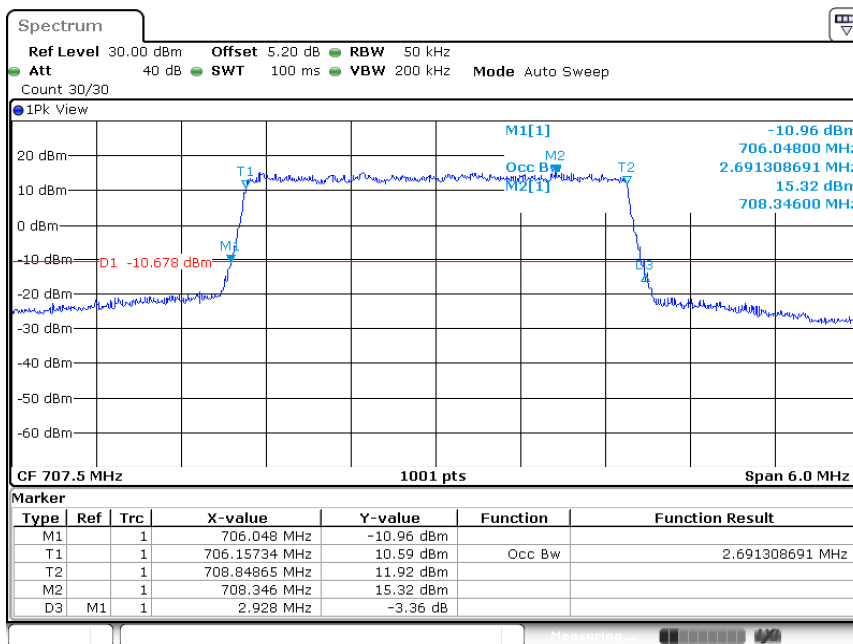
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Band12-3MHz-QPSK-23025-15RB#0-2.685



Date: 30.NOV.2020 22:07:06

Band12-3MHz-QPSK-23095-15RB#0-2.691

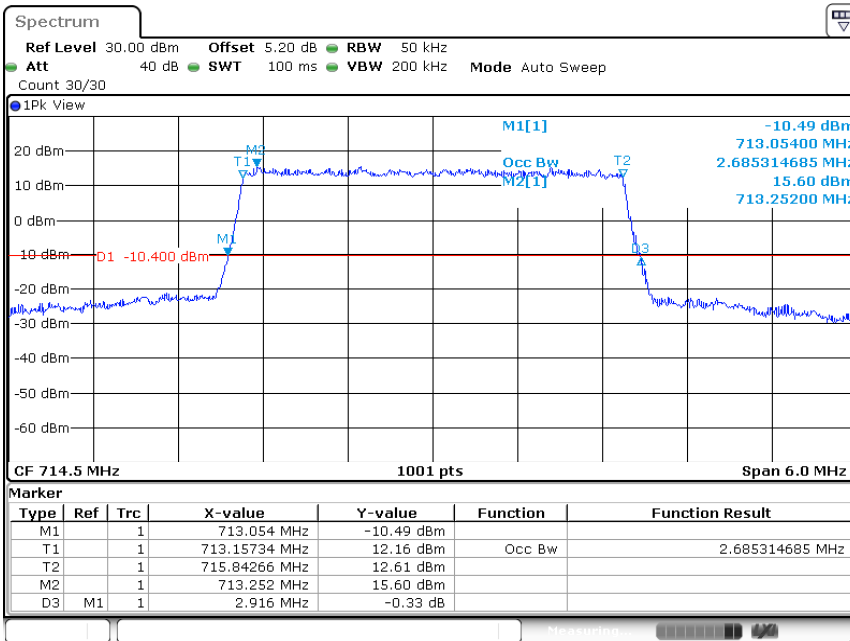


Date: 30.NOV.2020 22:07:32



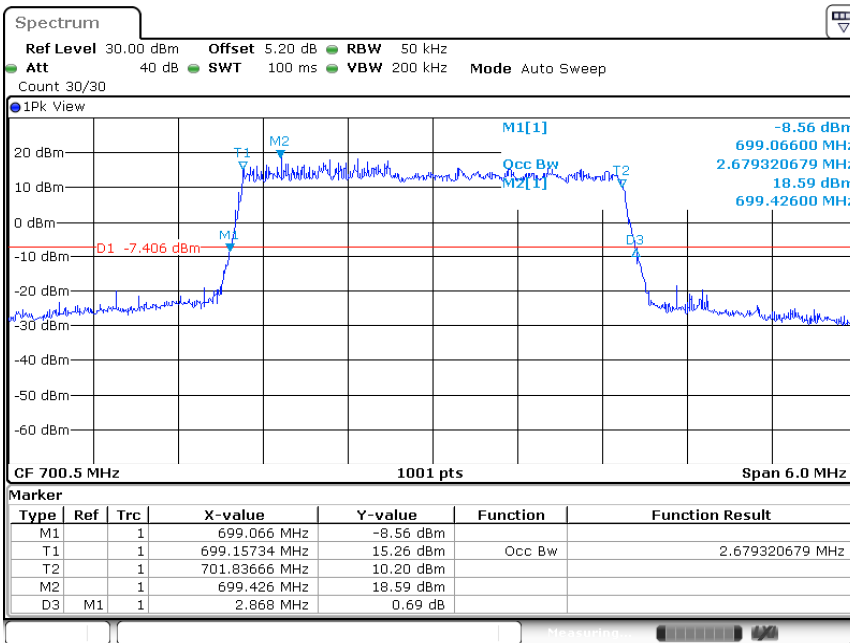
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Band12-3MHz-QPSK-23165-15RB#0-2.685



Date: 30.NOV.2020 22:07:57

Band12-3MHz-16QAM-23025-15RB#0-2.679

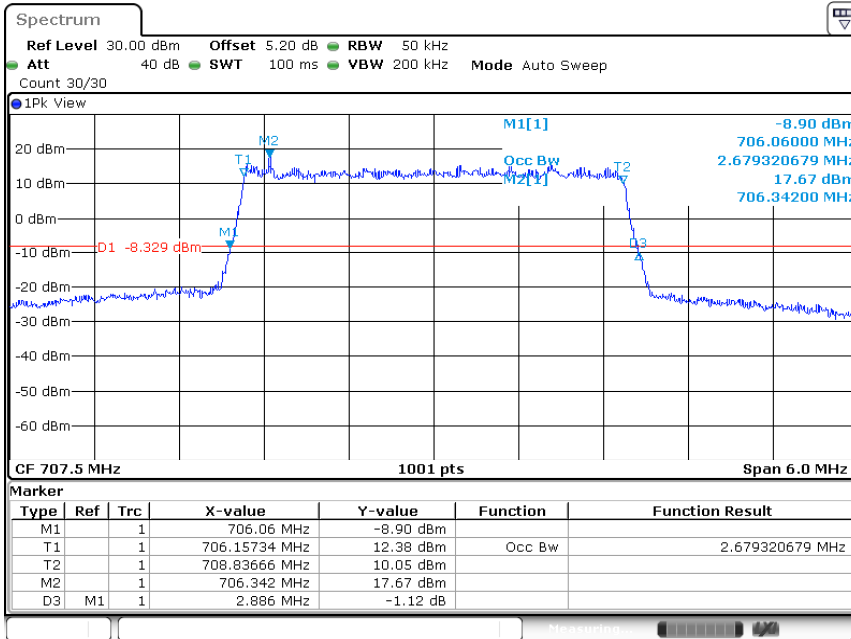


Date: 30.NOV.2020 22:07:19



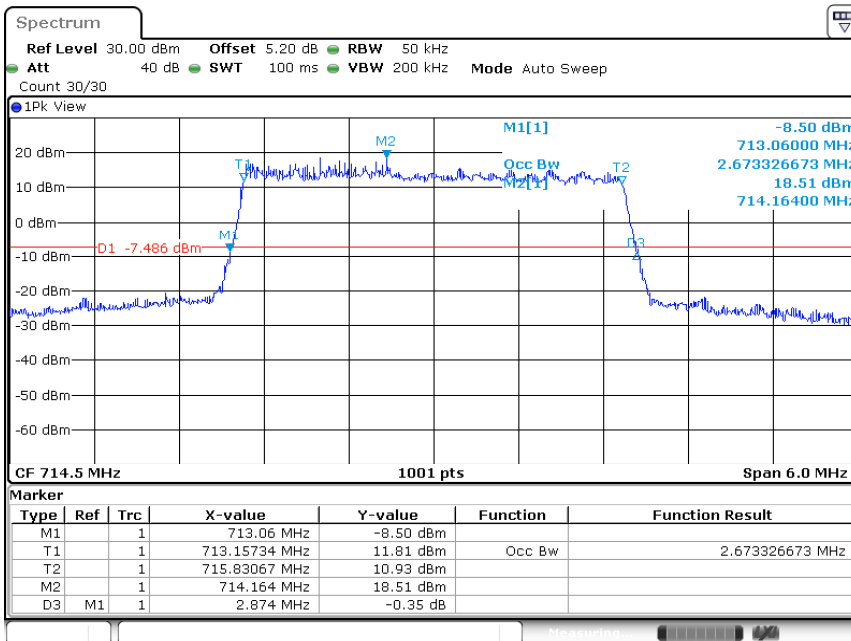
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Band12-3MHz-16QAM-23095-15RB#0-2.679



Date: 30.NOV.2020 22:07:45

Band12-3MHz-16QAM-23165-15RB#0-2.673

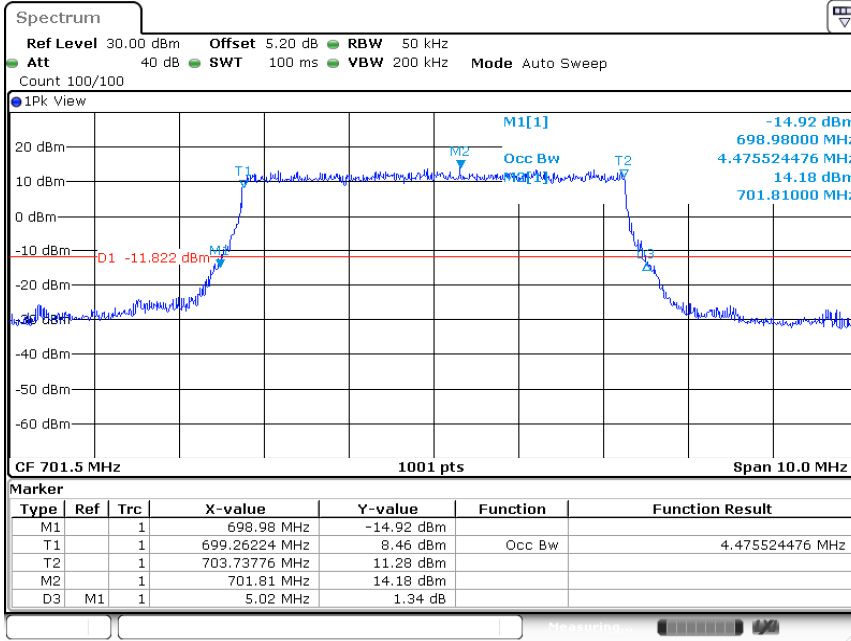


Date: 30.NOV.2020 22:08:10



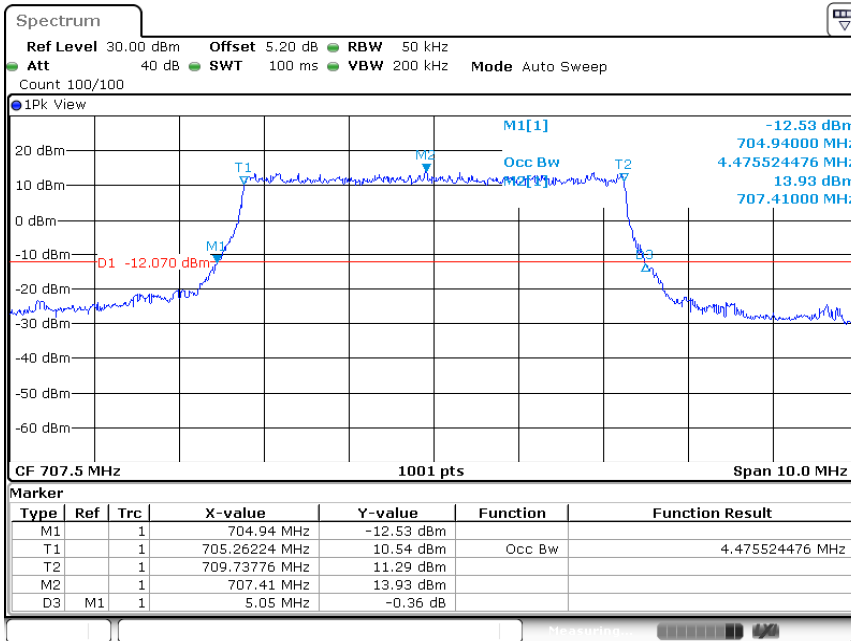
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Band12-5MHz-QPSK-23035-25RB#0-4.476



Date: 30.NOV.2020 22:09:19

Band12-5MHz-QPSK-23095-25RB#0-4.476

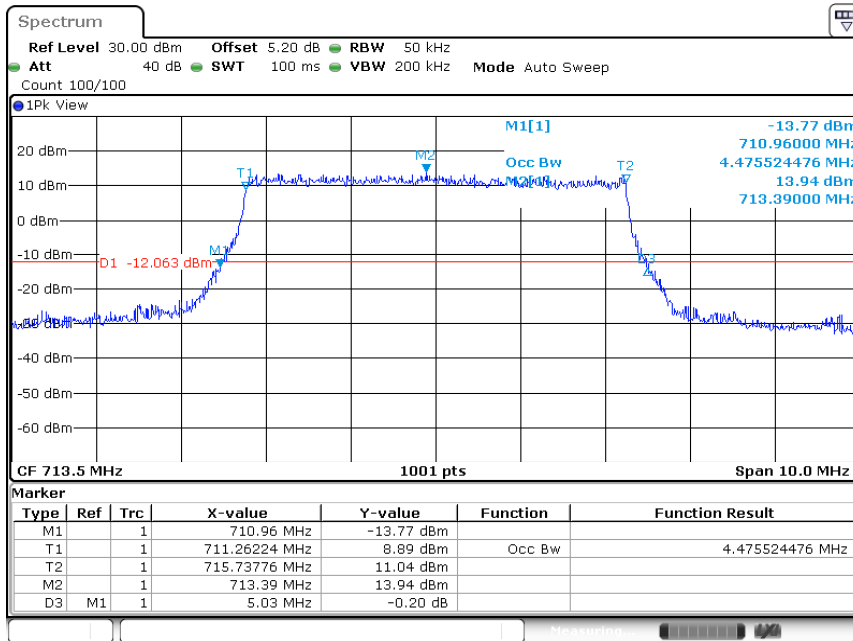


Date: 30.NOV.2020 22:10:04



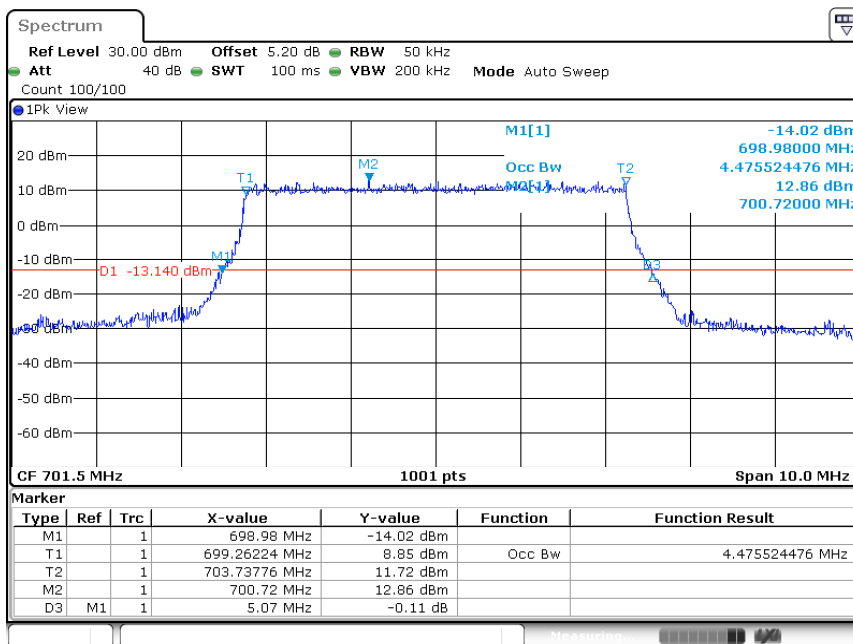
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Band12-5MHz-QPSK-23155-25RB#0-4.476



Date: 30.NOV.2020 22:10:56

Band12-5MHz-16QAM-23035-25RB#0-4.476

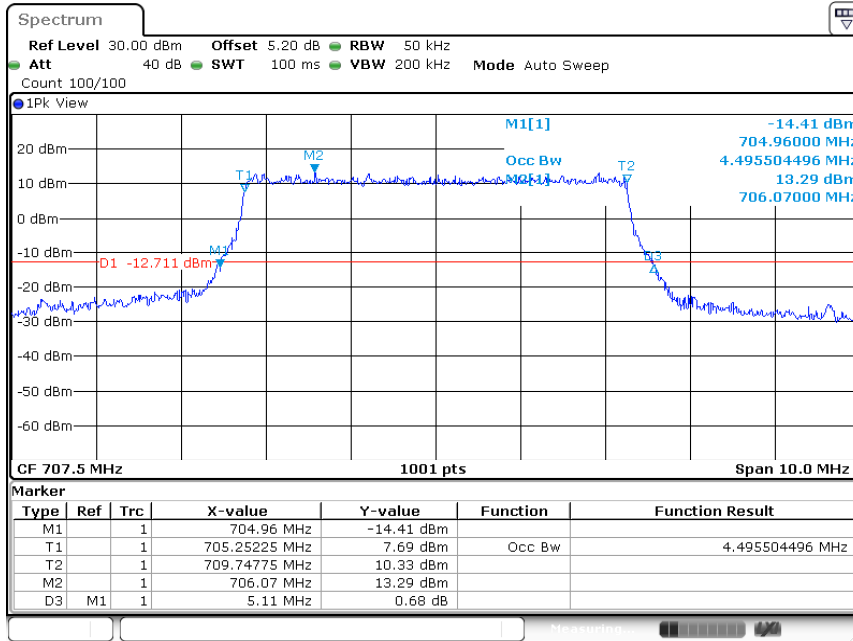


Date: 30.NOV.2020 22:09:44



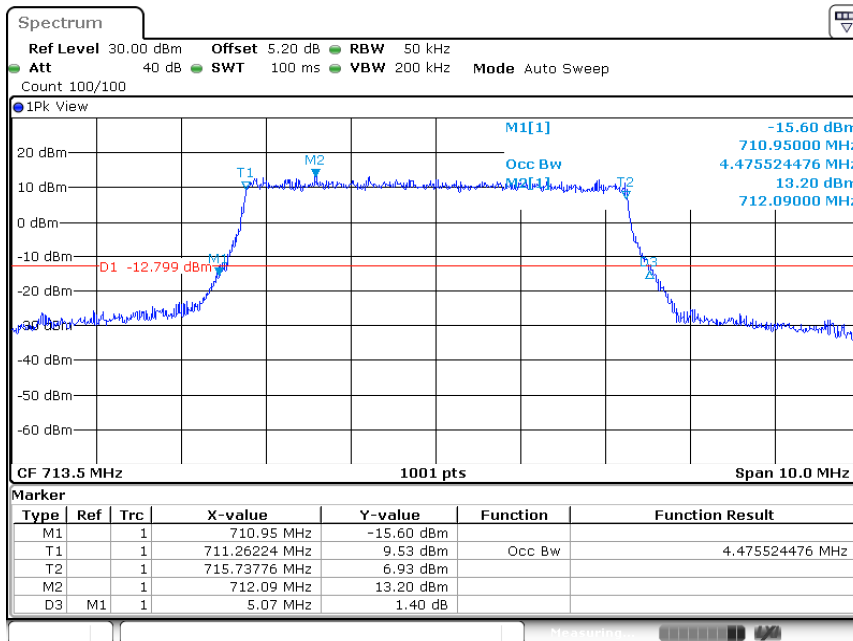
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Band12-5MHz-16QAM-23095-25RB#0-4.496



Date: 30.NOV.2020 22:10:32

Band12-5MHz-16QAM-23155-25RB#0-4.476

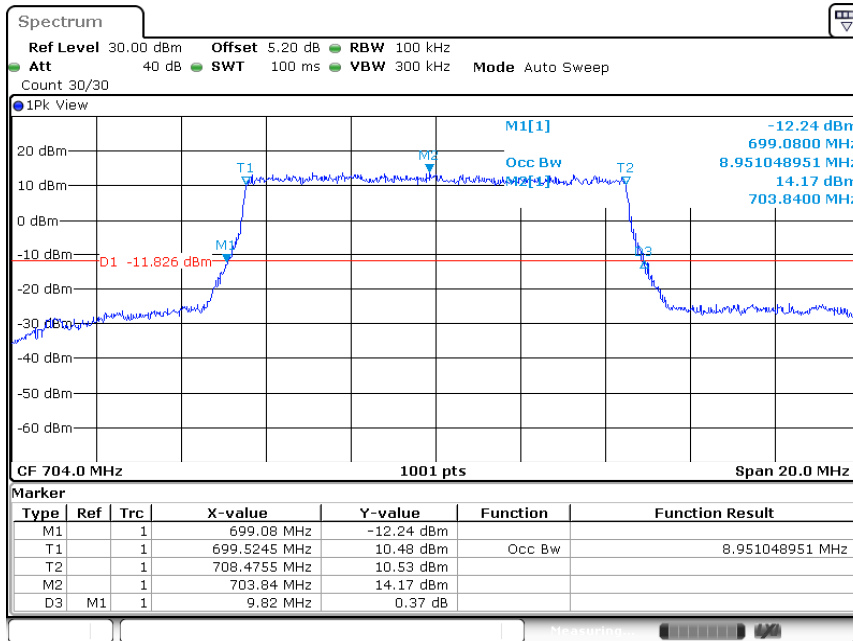


Date: 30.NOV.2020 22:11:35



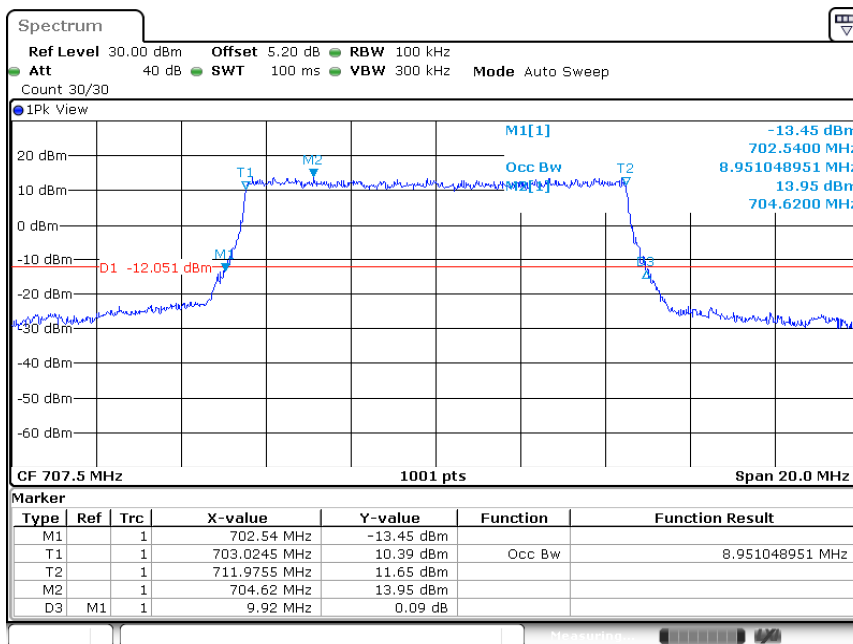
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Band12-10MHz-QPSK-23060-50RB#0-8.951



Date: 30.NOV.2020 22:11:56

Band12-10MHz-QPSK-23095-50RB#0-8.951

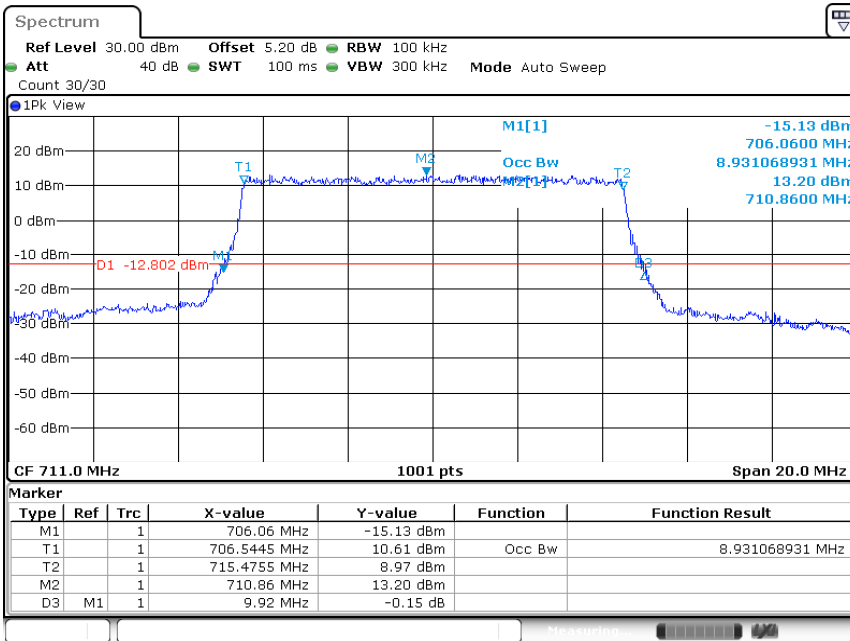


Date: 30.NOV.2020 22:12:21



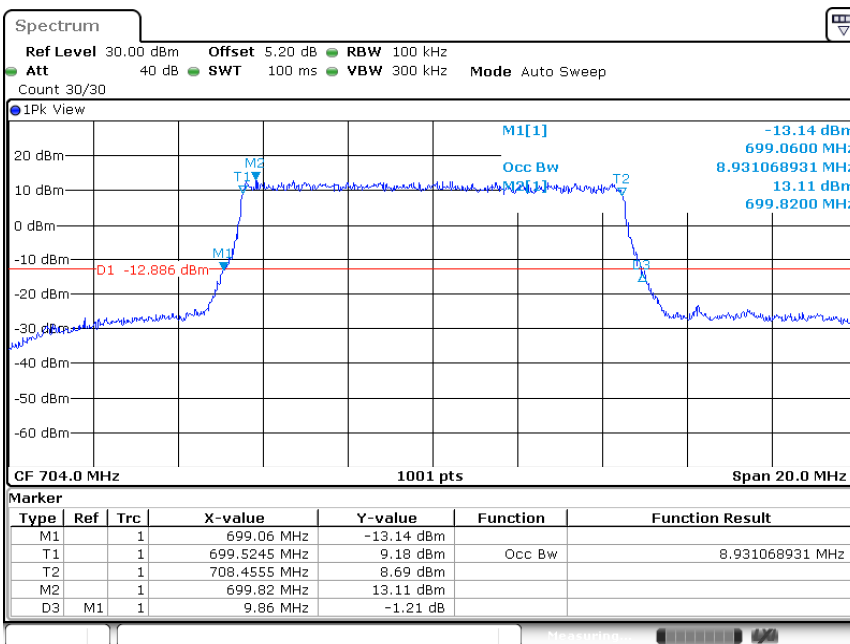
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Band12-10MHz-QPSK-23130-50RB#0-8.931



Date: 30.NOV.2020 22:12:48

Band12-10MHz-16QAM-23060-50RB#0-8.931

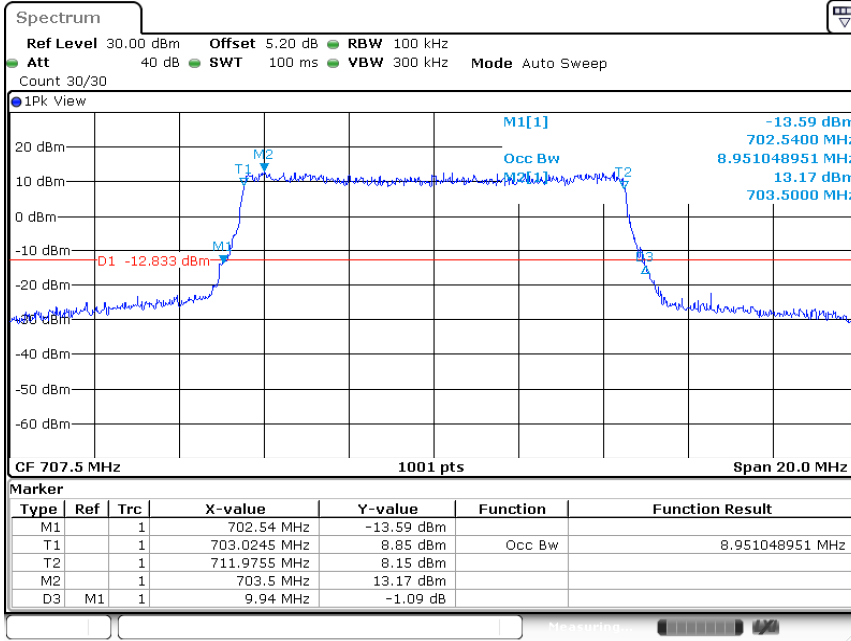


Date: 30.NOV.2020 22:12:09



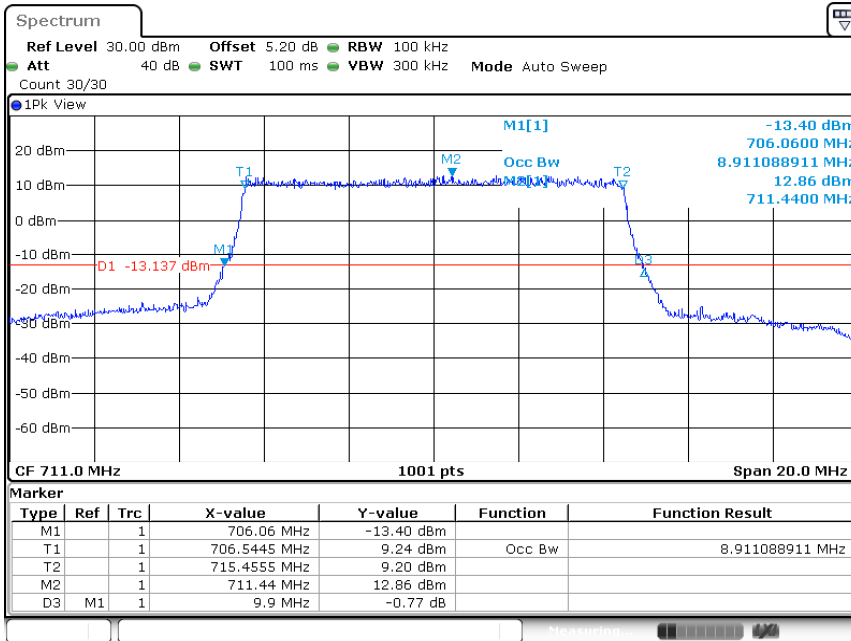
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Band12-10MHz-16QAM-23095-50RB#0-8.951



Date: 30.NOV.2020 22:12:35

Band12-10MHz-16QAM-23130-50RB#0-8.911



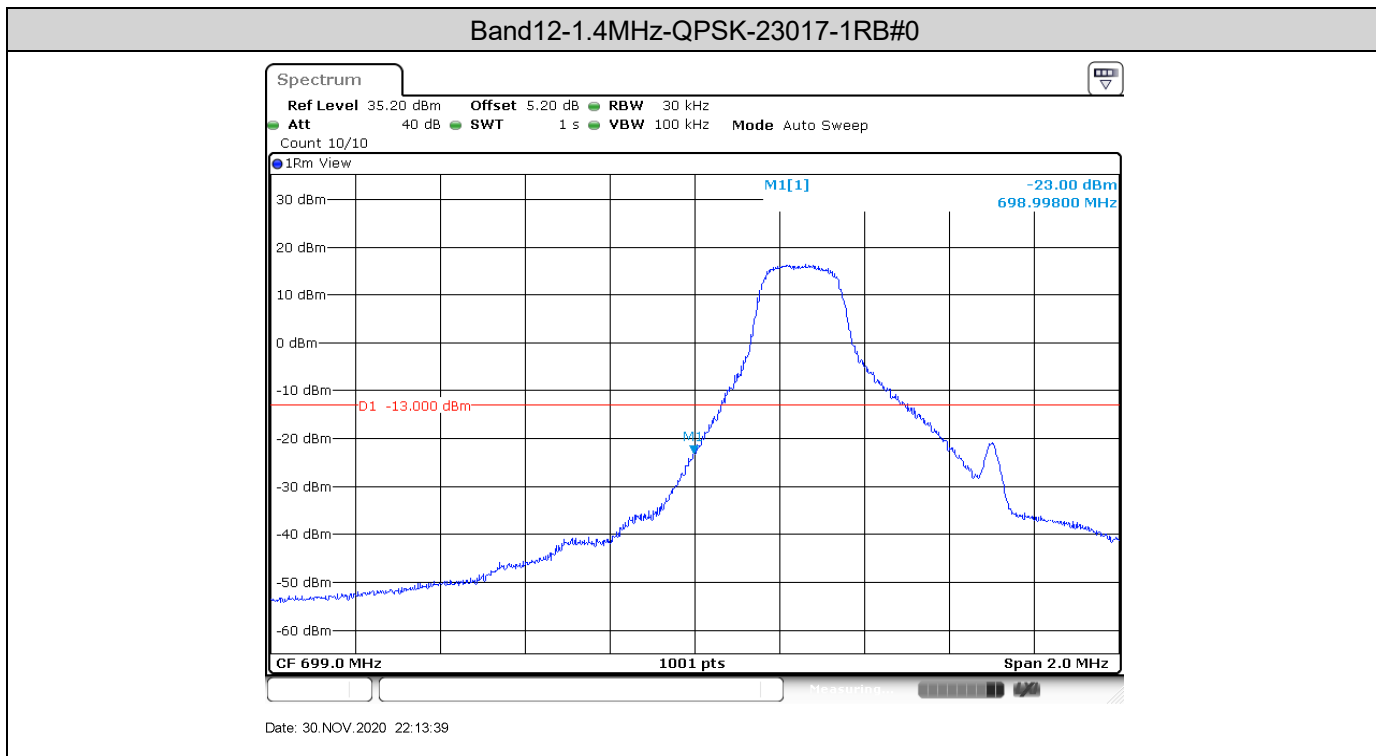
Date: 30.NOV.2020 22:13:00



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5 Band Edge Compliance

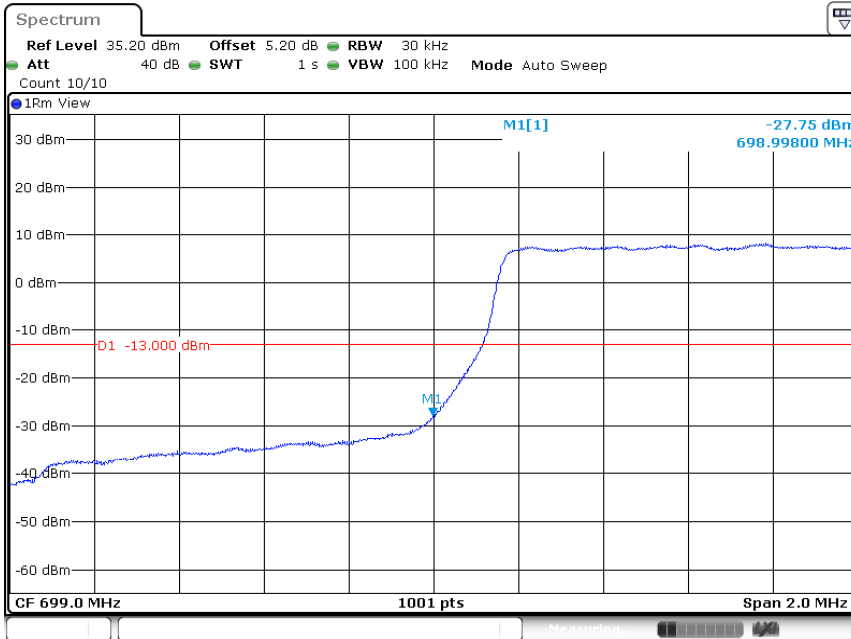
5.1 Test Plots



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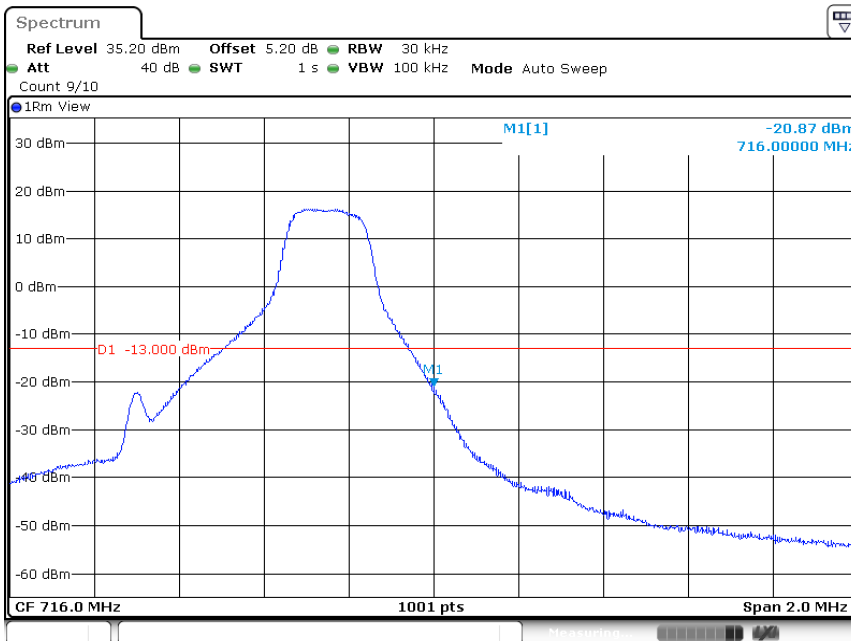
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Band12-1.4MHz-QPSK-23017-6RB#0



Date: 30.NOV.2020 22:14:35

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

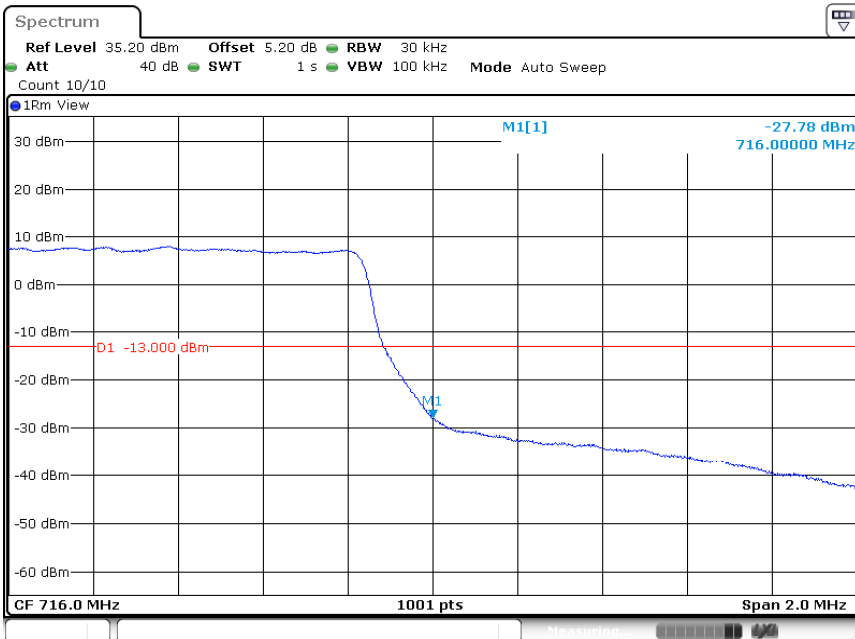


Date: 30.NOV.2020 22:15:42



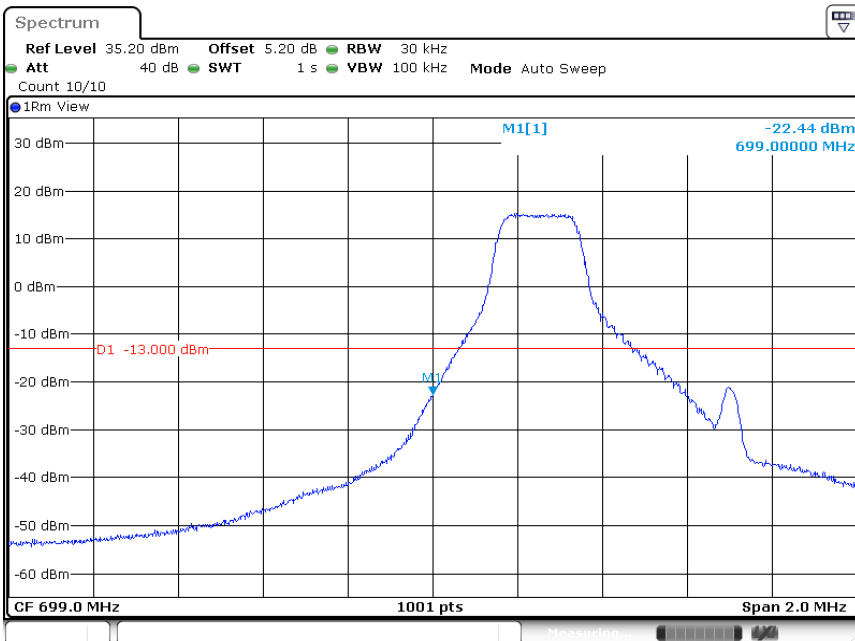
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Band12-1.4MHz-QPSK-23173-6RB#0



Date: 30.NOV.2020 22:16:30

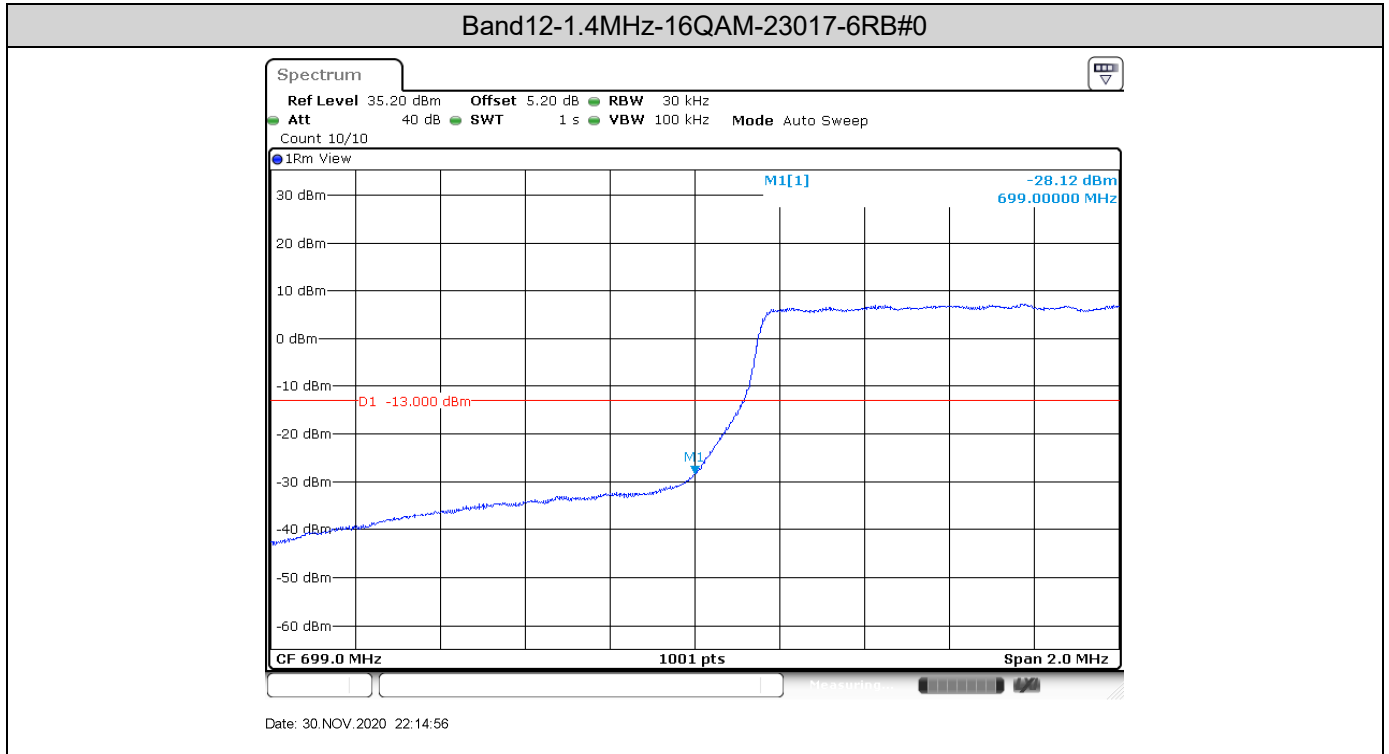
Band12-1.4MHz-16QAM-23017-1RB#0



Date: 30.NOV.2020 22:14:15



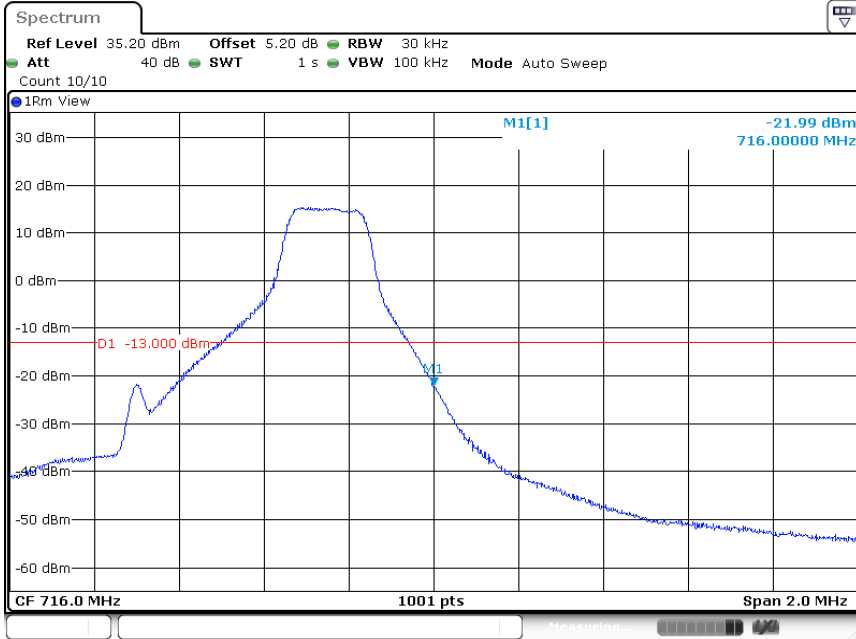
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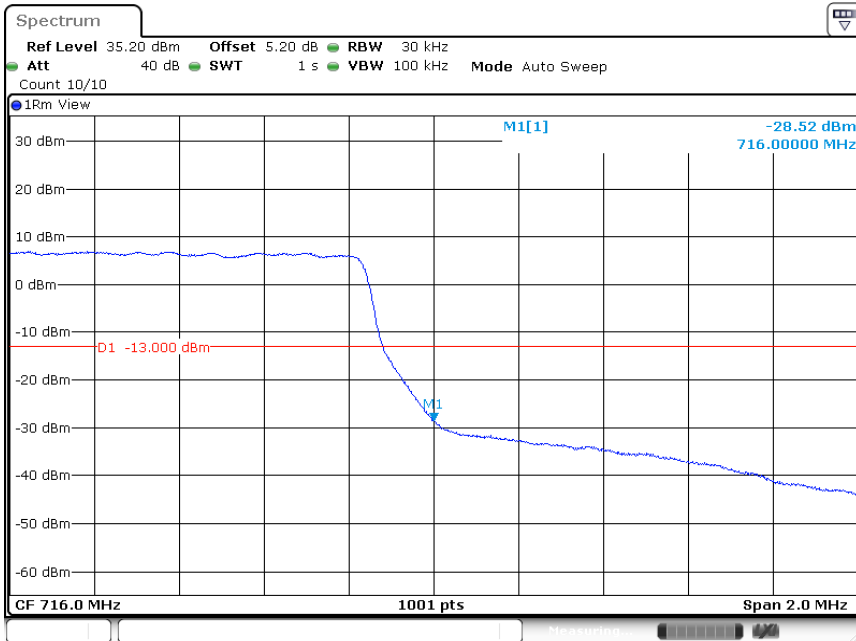
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Band12-1.4MHz-16QAM-23173-1RB#5



Date: 30.NOV.2020 22:16:09

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

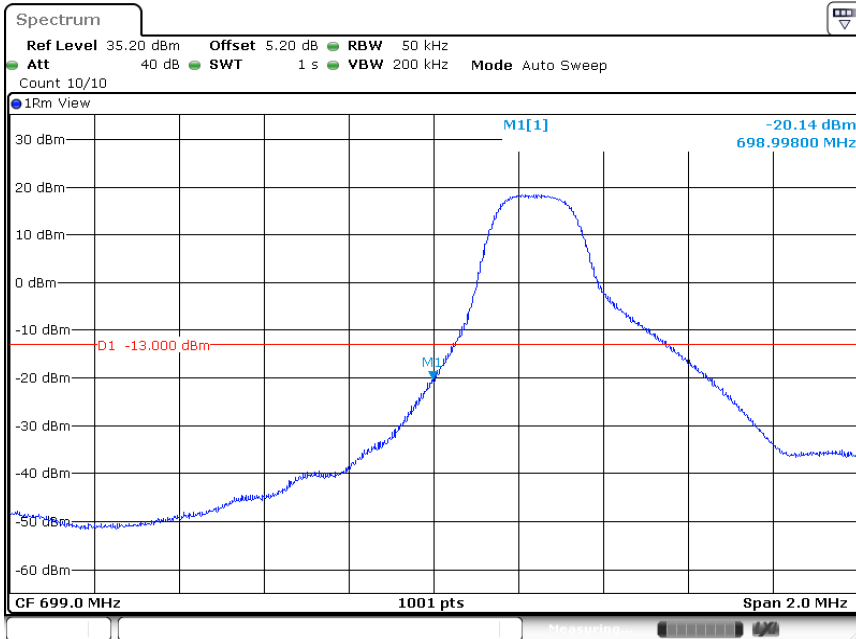


Date: 30.NOV.2020 22:16:51



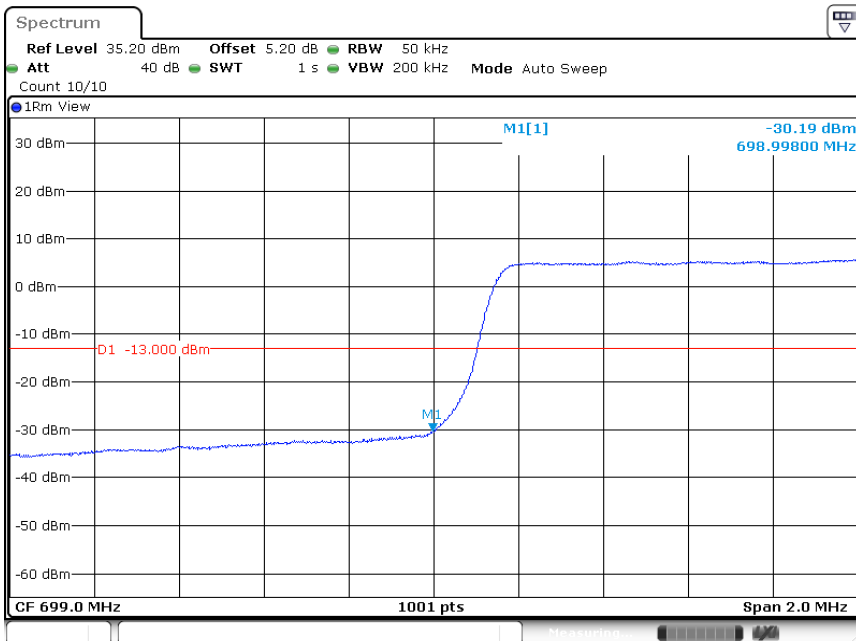
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Band12-3MHz-QPSK-23025-1RB#0



Date: 30.NOV.2020 22:17:57

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



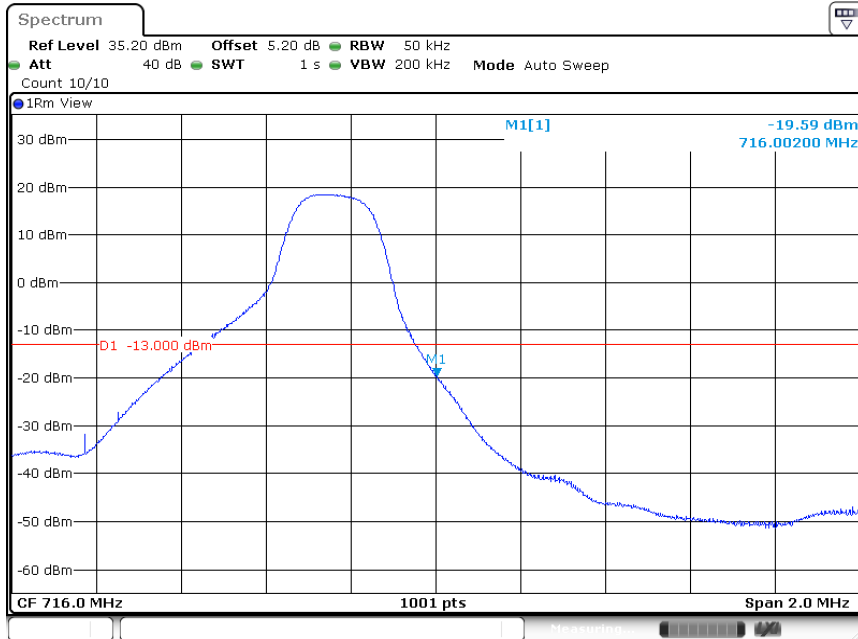
Date: 30.NOV.2020 22:18:38



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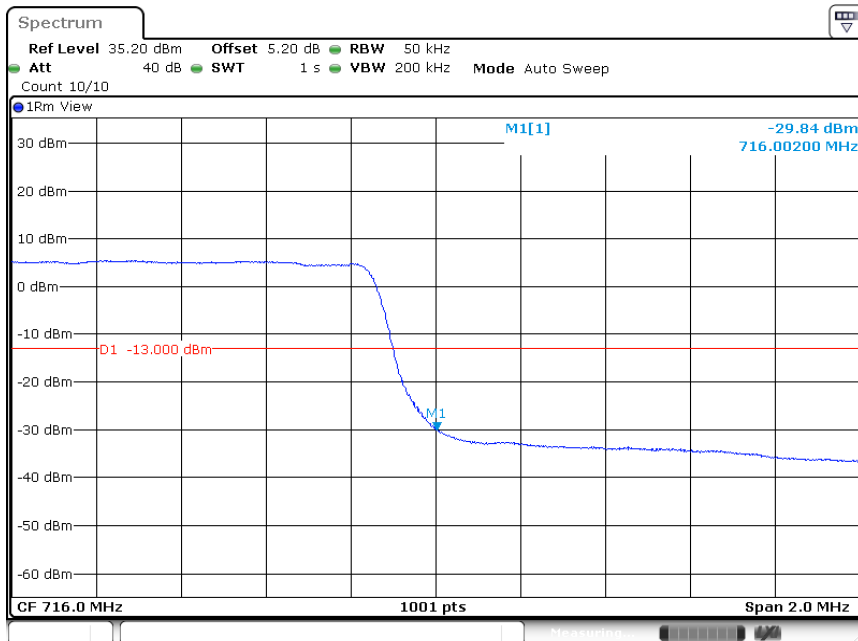
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Band12-3MHz-QPSK-23165-1RB#14



Date: 30.NOV.2020 22:19:23

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

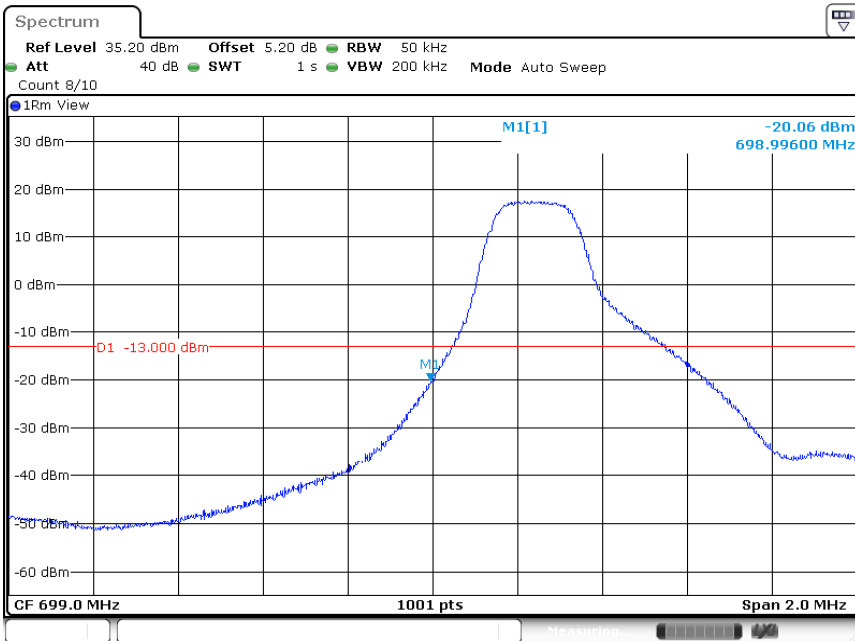


Date: 30.NOV.2020 22:20:04



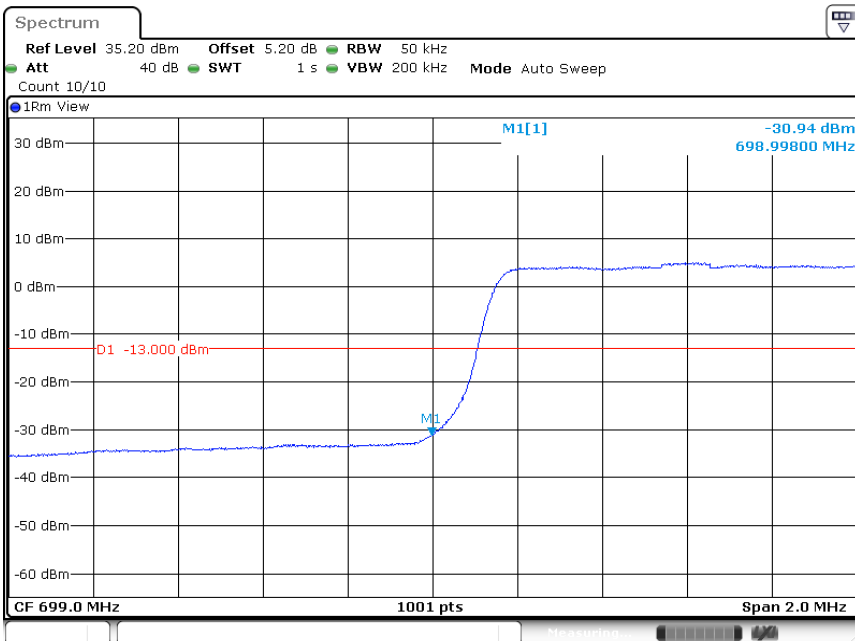
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Band12-3MHz-16QAM-23025-1RB#0



Date: 30.NOV.2020 22:18:18

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

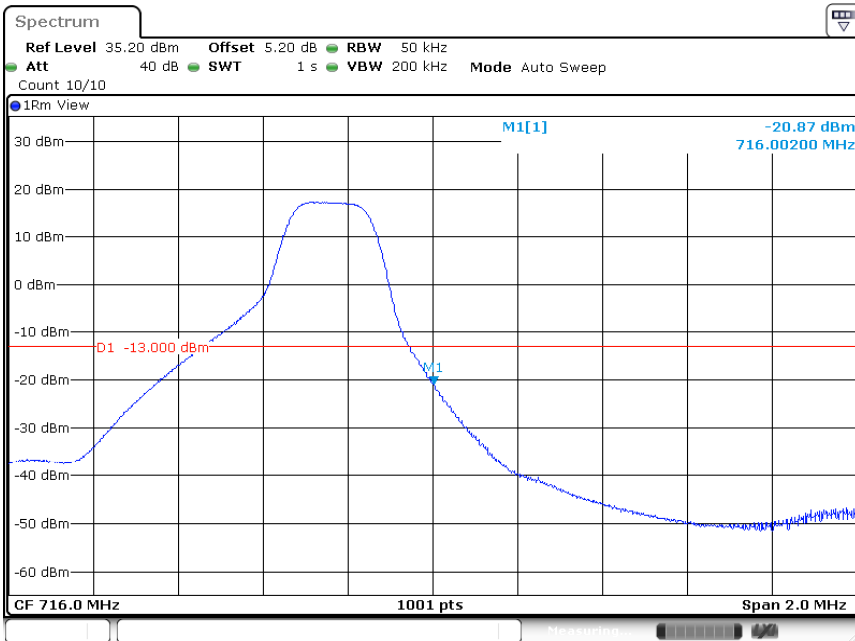


Date: 30.NOV.2020 22:18:58



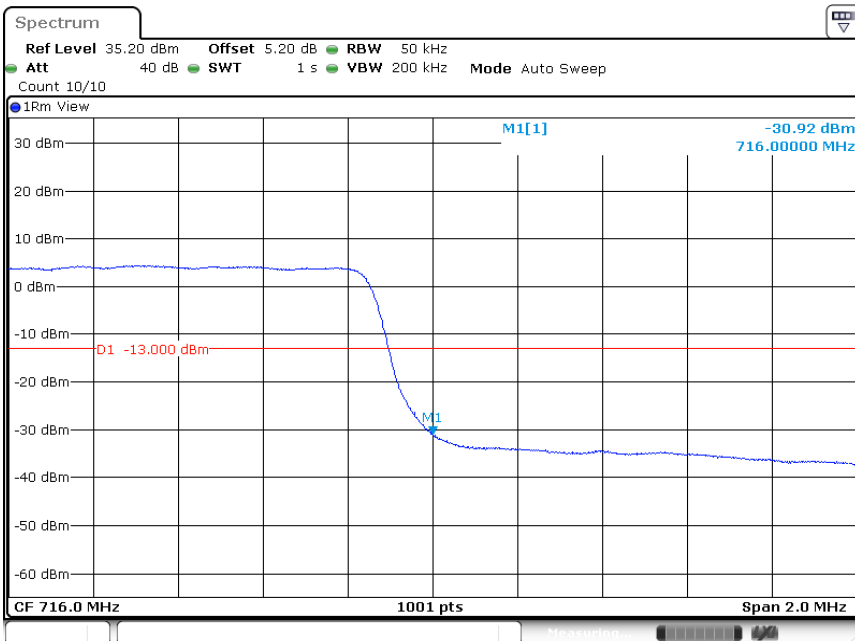
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Band12-3MHz-16QAM-23165-1RB#14



Date: 30.NOV.2020 22:19:44

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

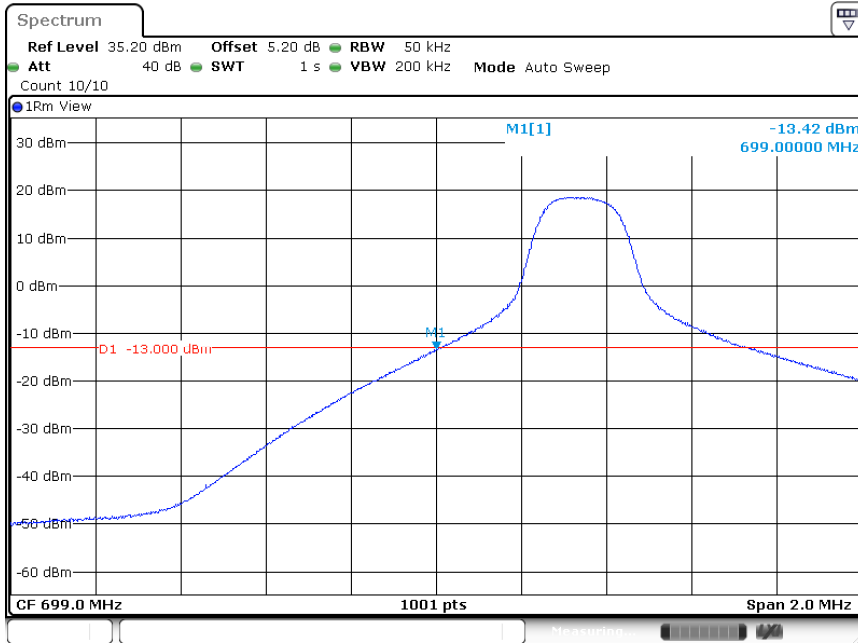


Date: 30.NOV.2020 22:20:24



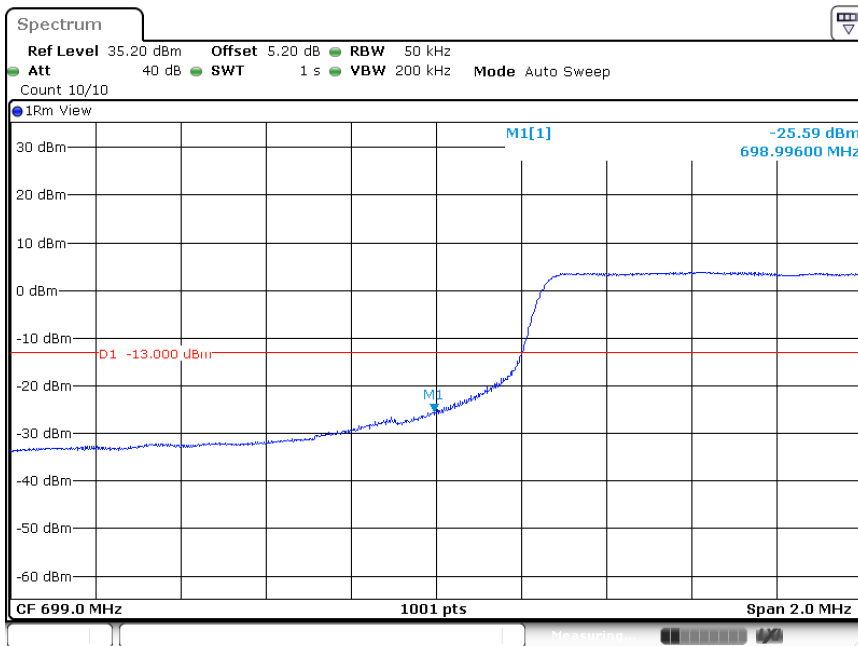
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Band12-5MHz-QPSK-23035-1RB#0



Date: 9.DEC.2020 17:06:55

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



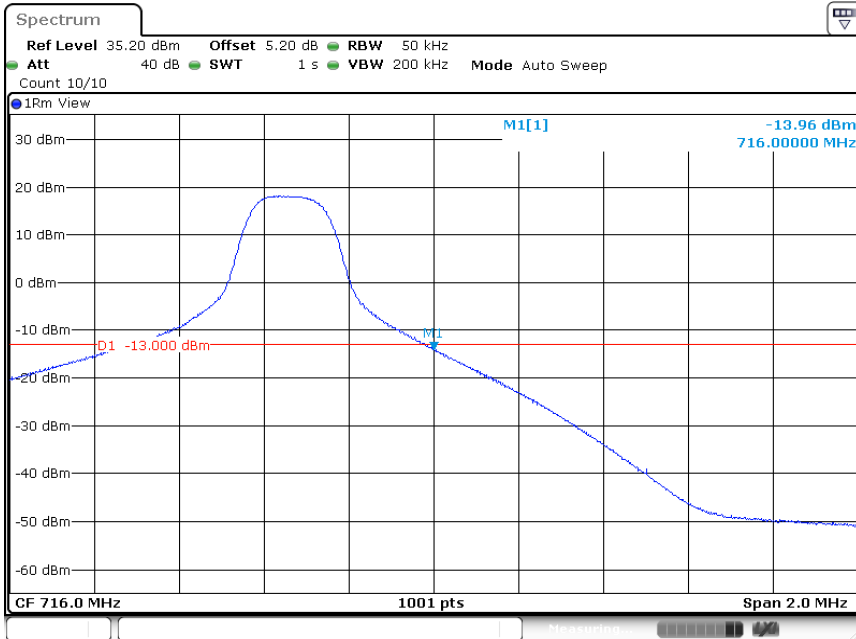
Date: 9.DEC.2020 17:08:42



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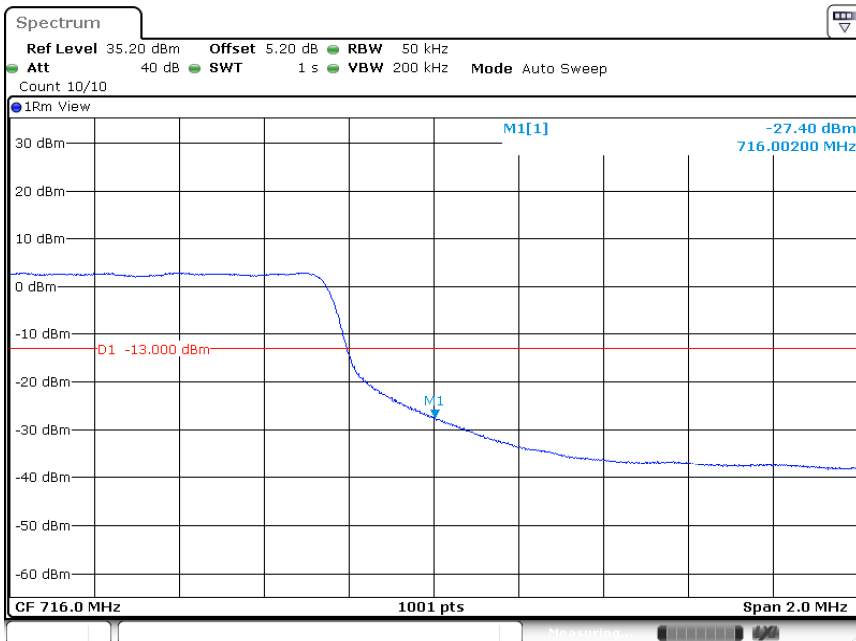
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Band12-5MHz-QPSK-23155-1RB#24



Date: 30.NOV.2020 22:22:44

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

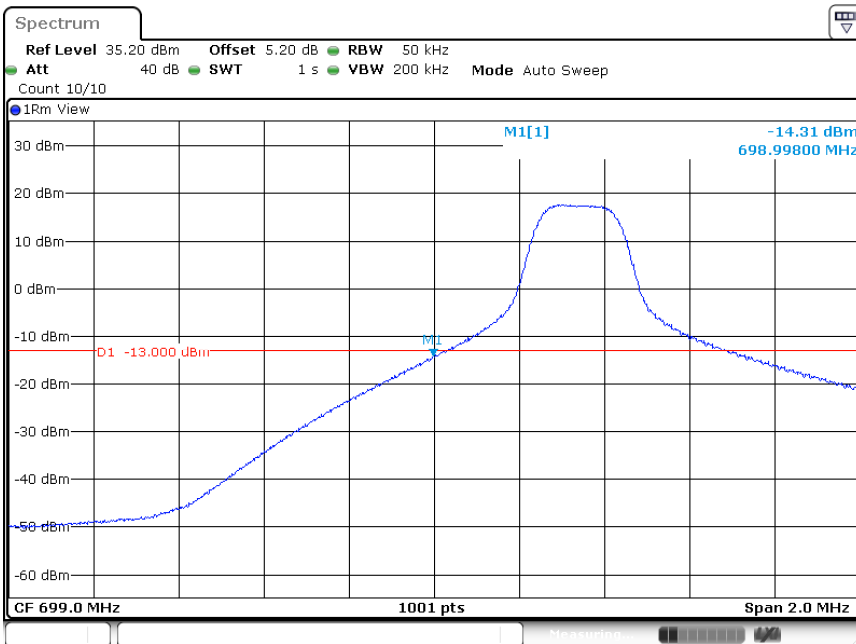


Date: 30.NOV.2020 22:23:25



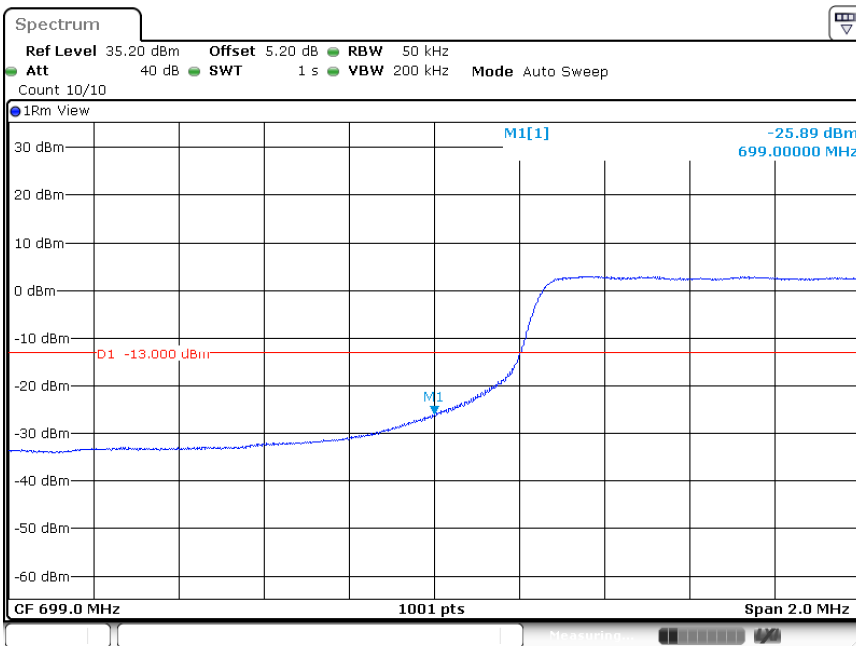
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Band12-5MHz-16QAM-23035-1RB#0



Date: 9.DEC.2020 17:07:45

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



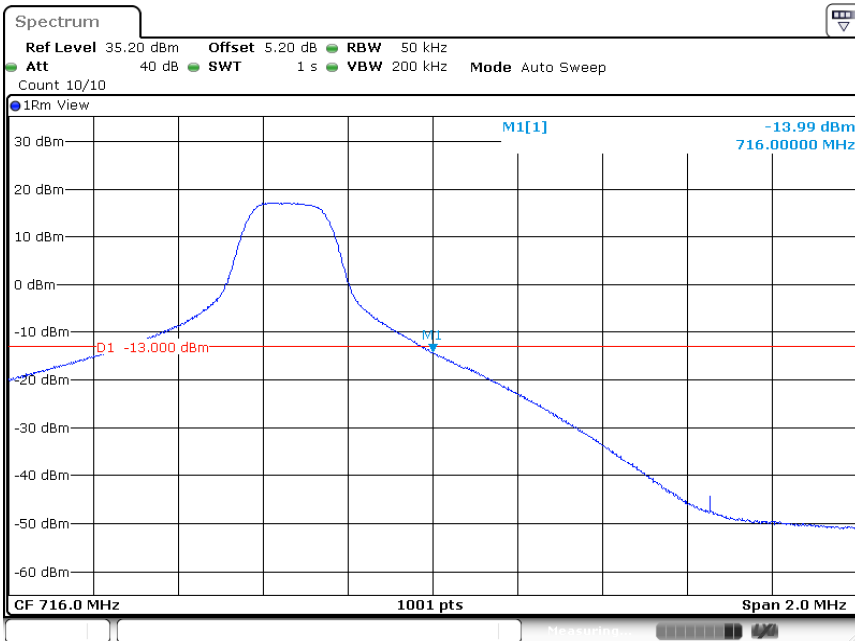
Date: 9.DEC.2020 17:09:02



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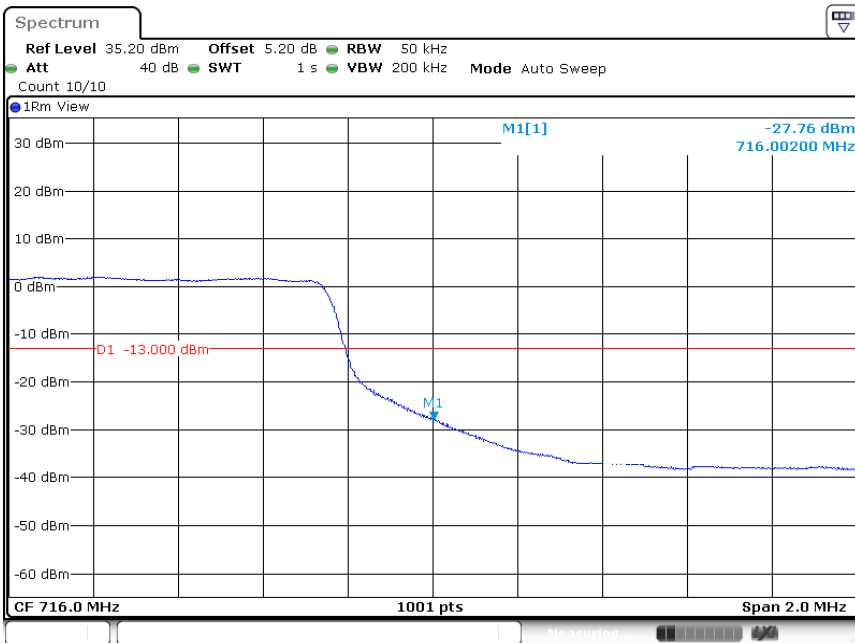
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Band12-5MHz-16QAM-23155-1RB#24



Date: 30.NOV.2020 22:23:05

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



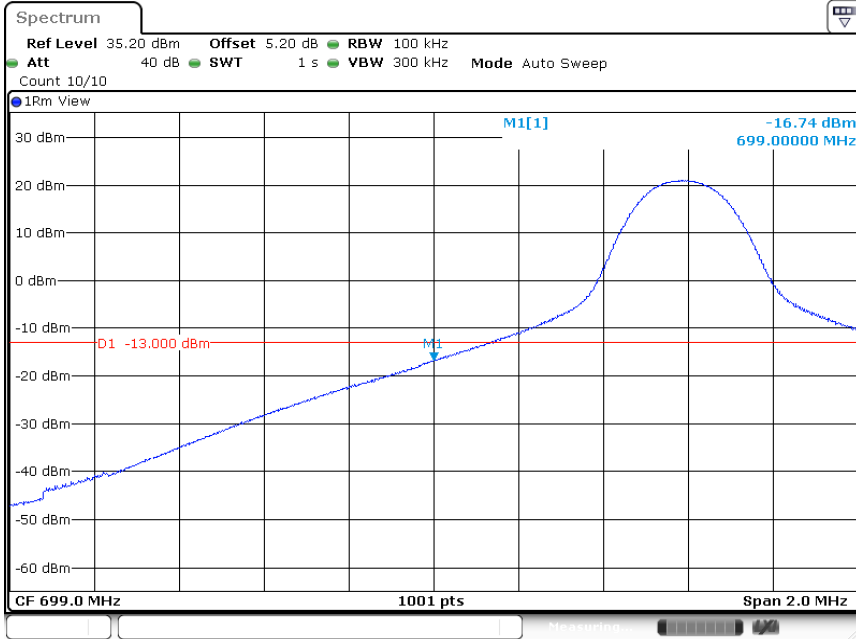
Date: 30.NOV.2020 22:23:46



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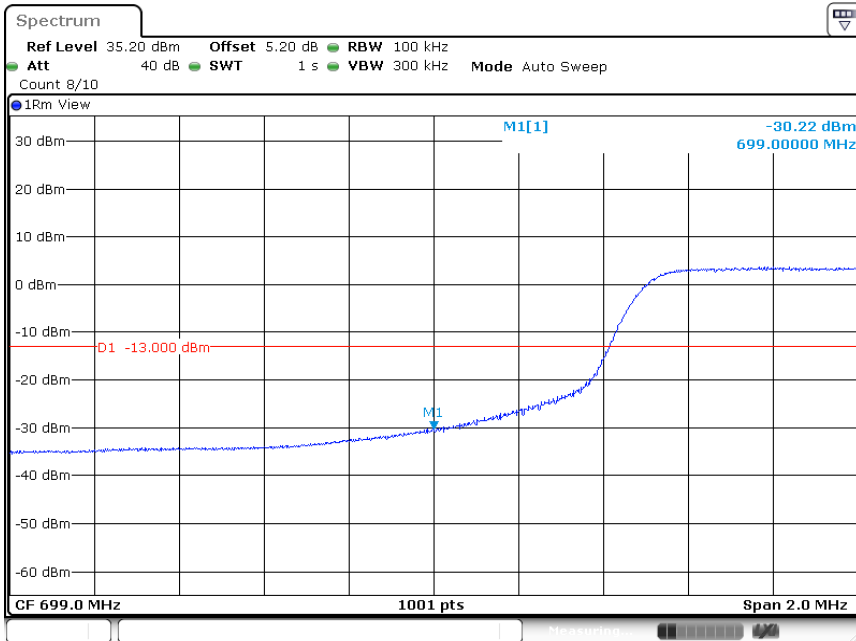
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Band12-10MHz-QPSK-23060-1RB#0



Date: 30.NOV.2020 22:25:06

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

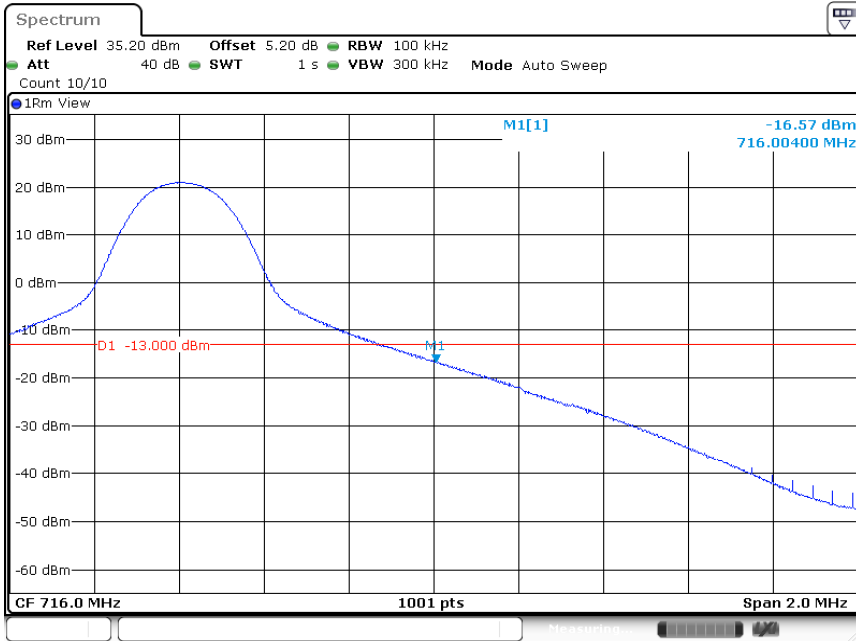


Date: 30.NOV.2020 22:26:34



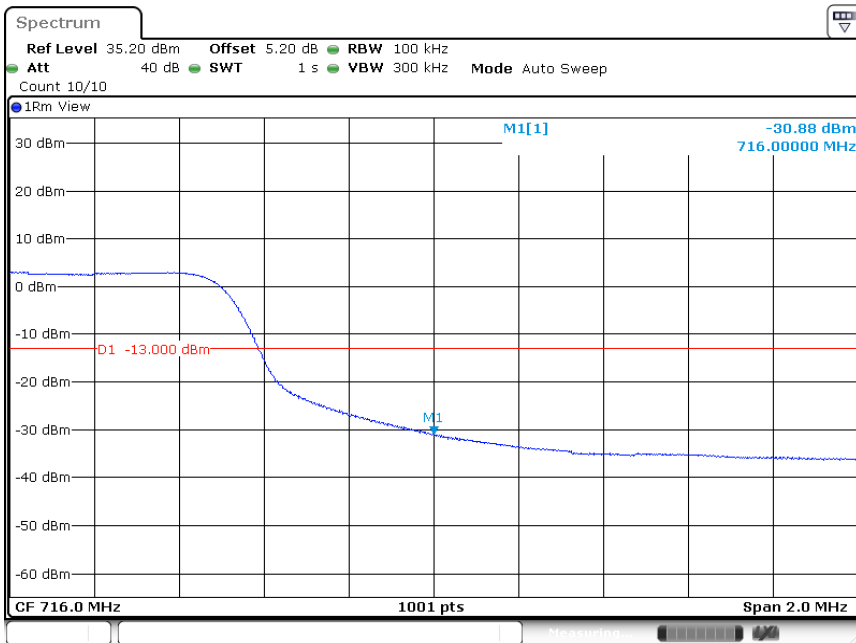
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Band12-10MHz-QPSK-23130-1RB#49



Date: 30.NOV.2020 22:27:26

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

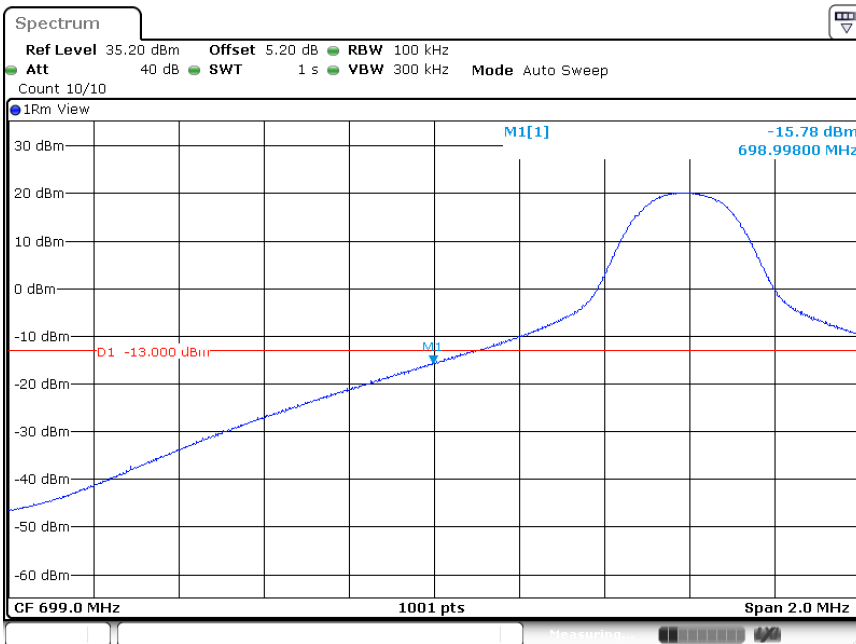


Date: 30.NOV.2020 22:28:07



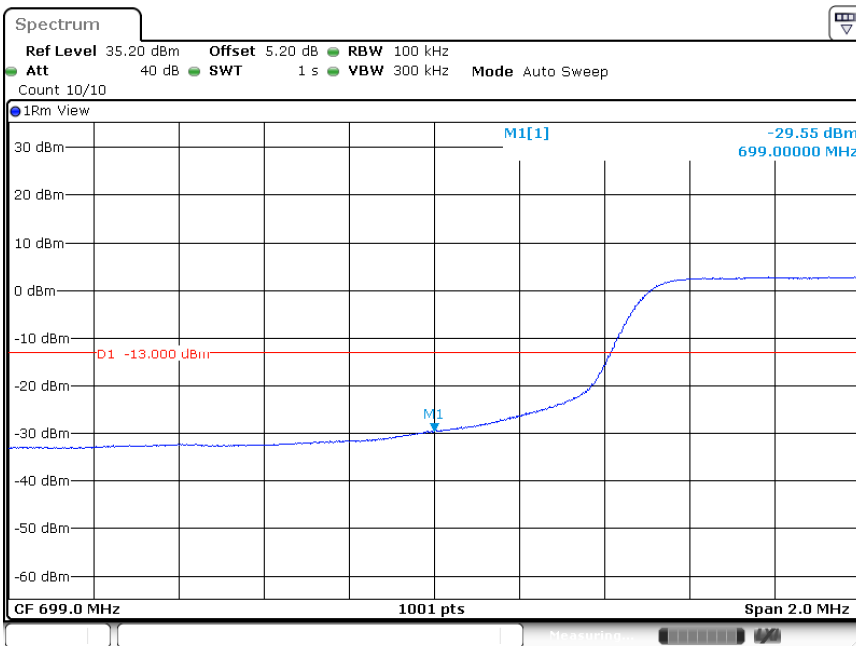
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Band12-10MHz-16QAM-23060-1RB#0



Date: 9.DEC.2020 17:09:29

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

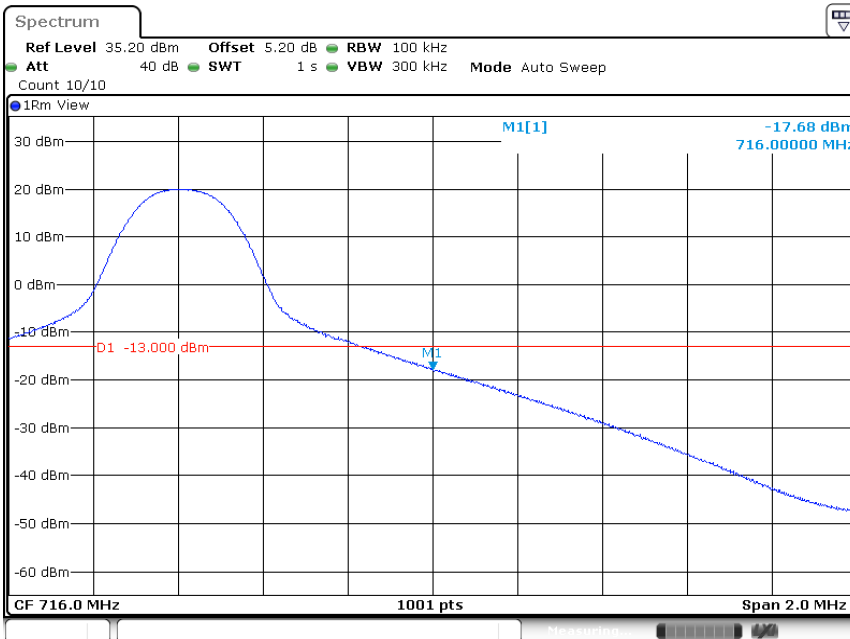


Date: 9.DEC.2020 17:09:49



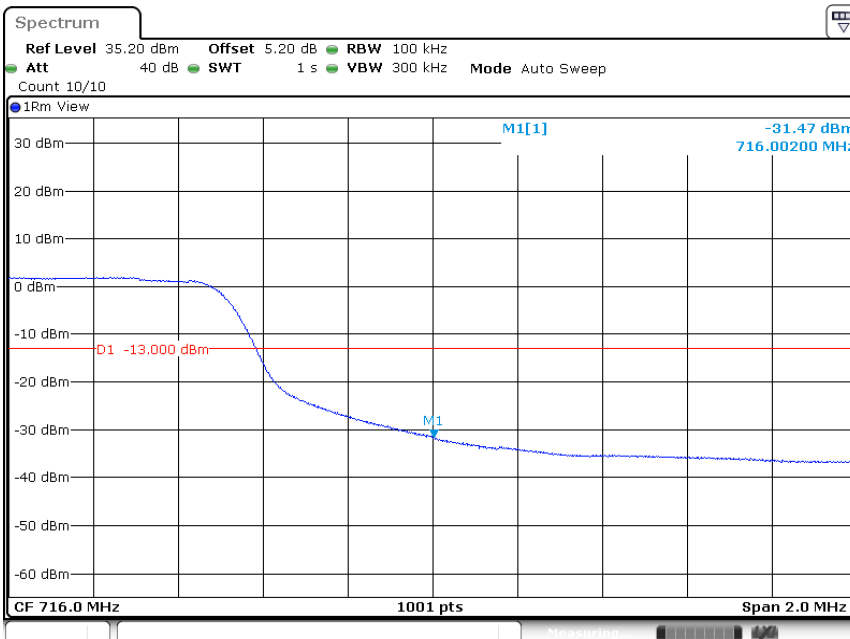
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Band12-10MHz-16QAM-23130-1RB#49



Date: 30.NOV.2020 22:27:46

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



Date: 30.NOV.2020 22:28:27



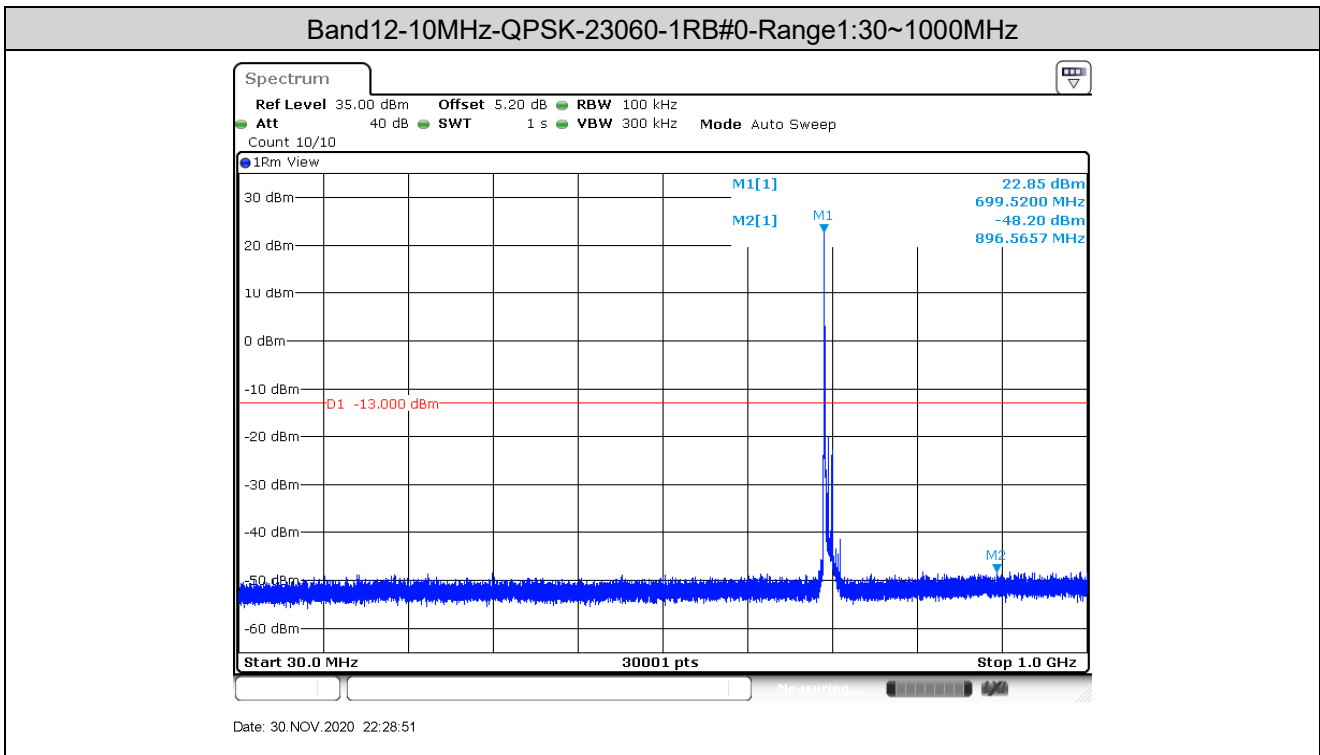
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6 Spurious Emission at Antenna Terminal

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.

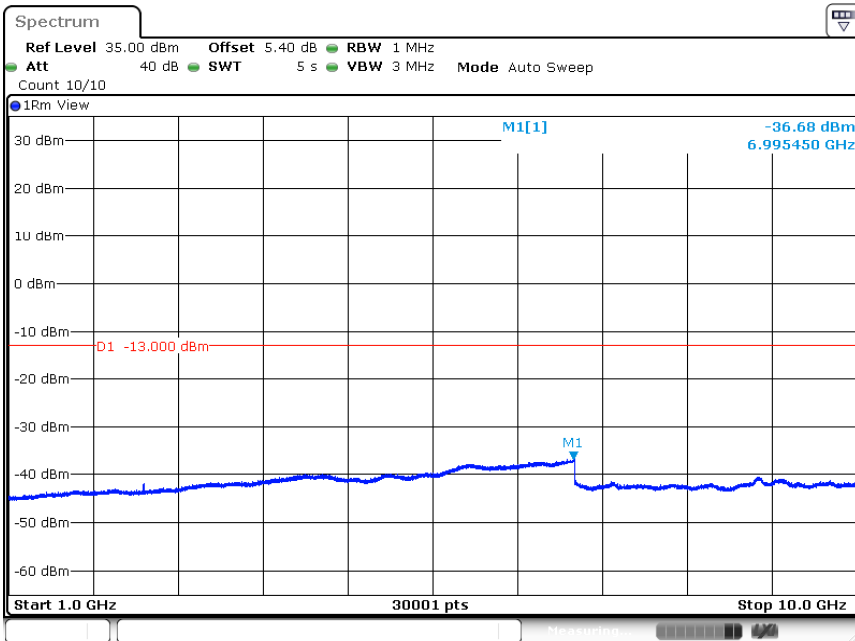
Remark2: only the worst case data displayed in this report.

6.1 Test Plots



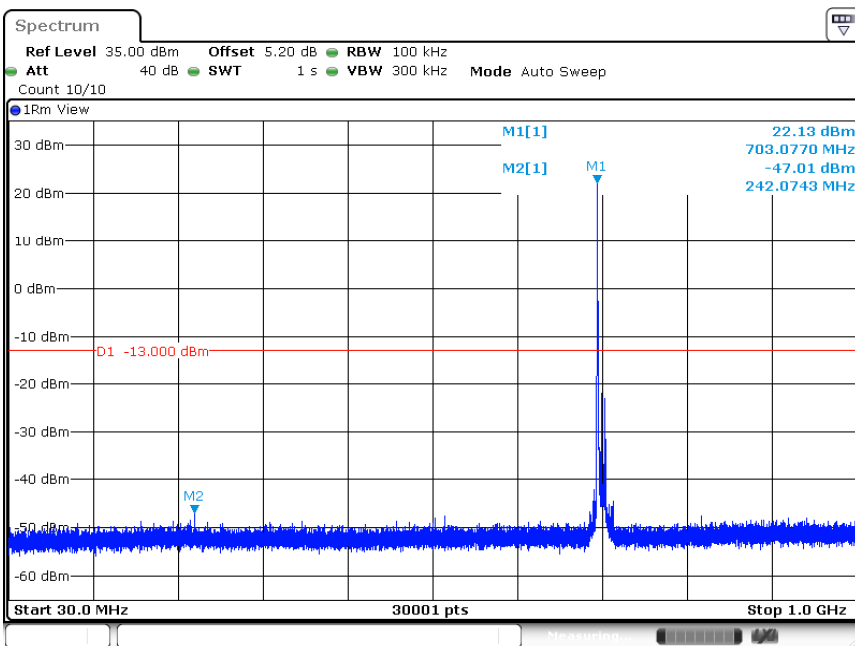
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Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



Date: 30.NOV.2020 22:29:59

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

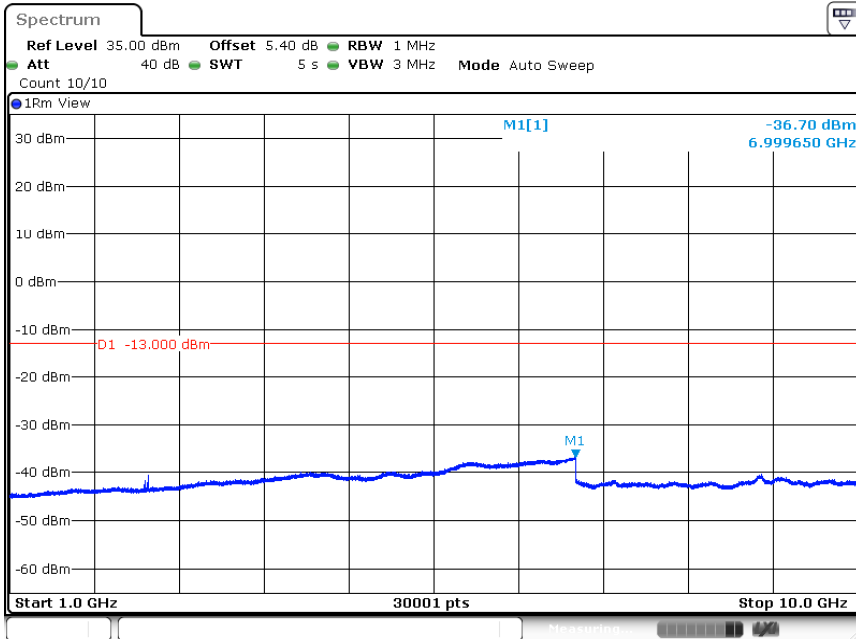


Date: 30.NOV.2020 22:31:45



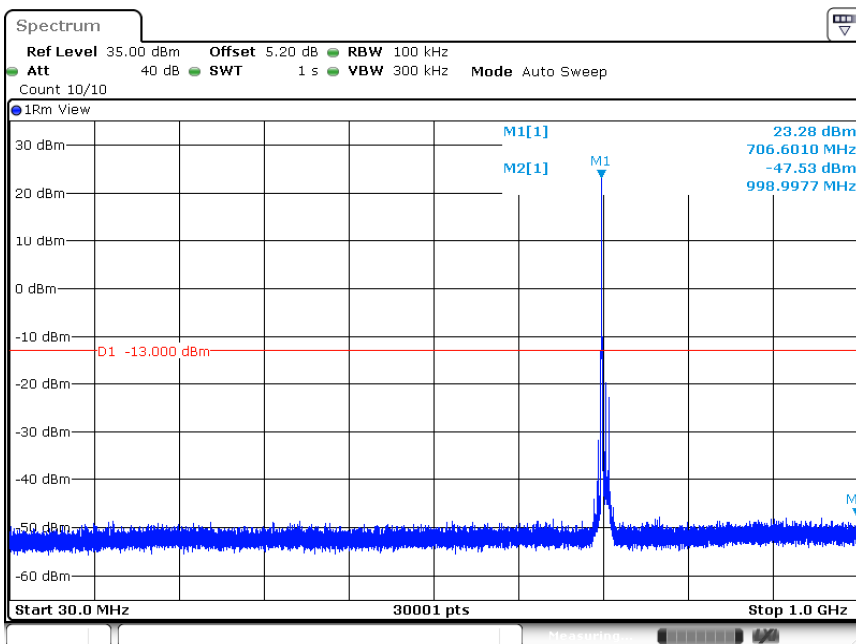
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Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 30.NOV.2020 22:32:53

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



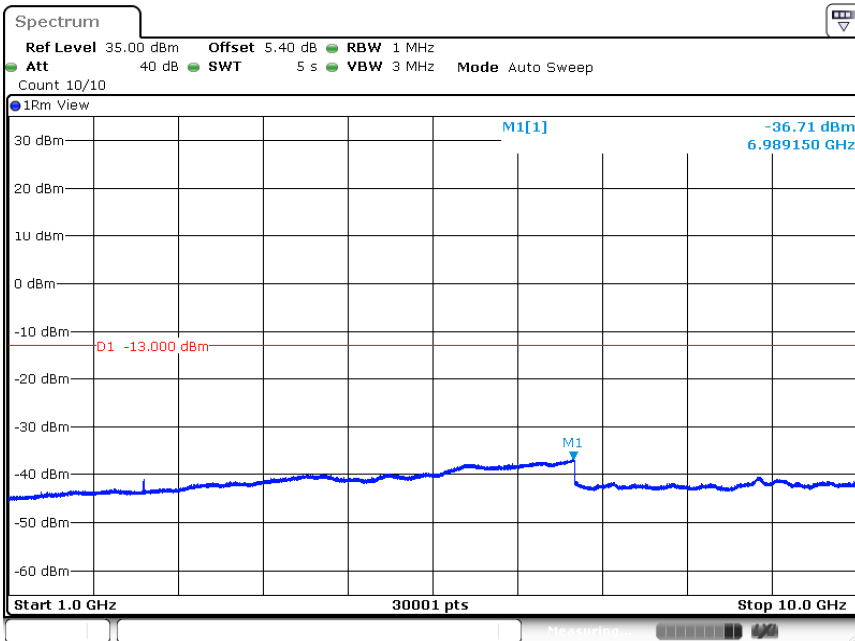
Date: 30.NOV.2020 22:34:40



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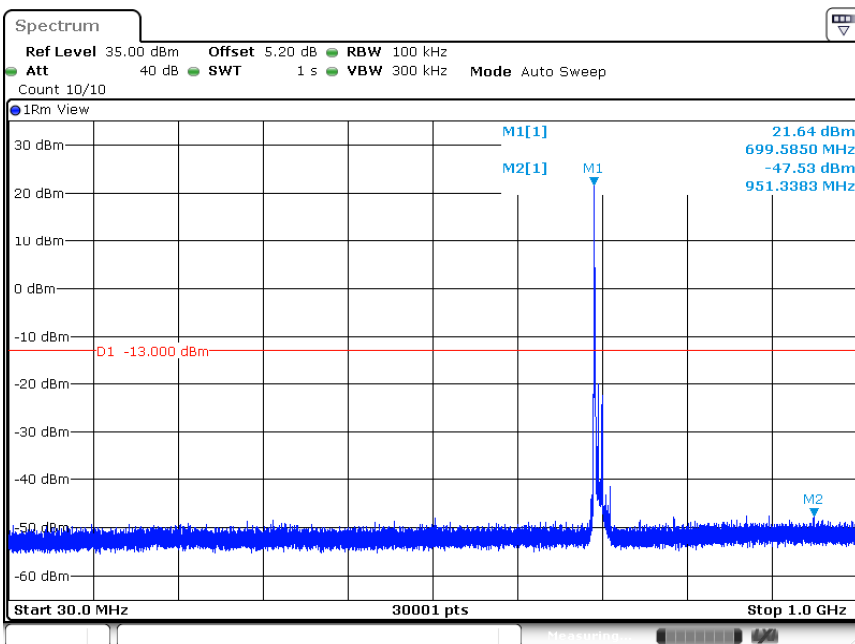
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Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



Date: 30.NOV.2020 22:35:47

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

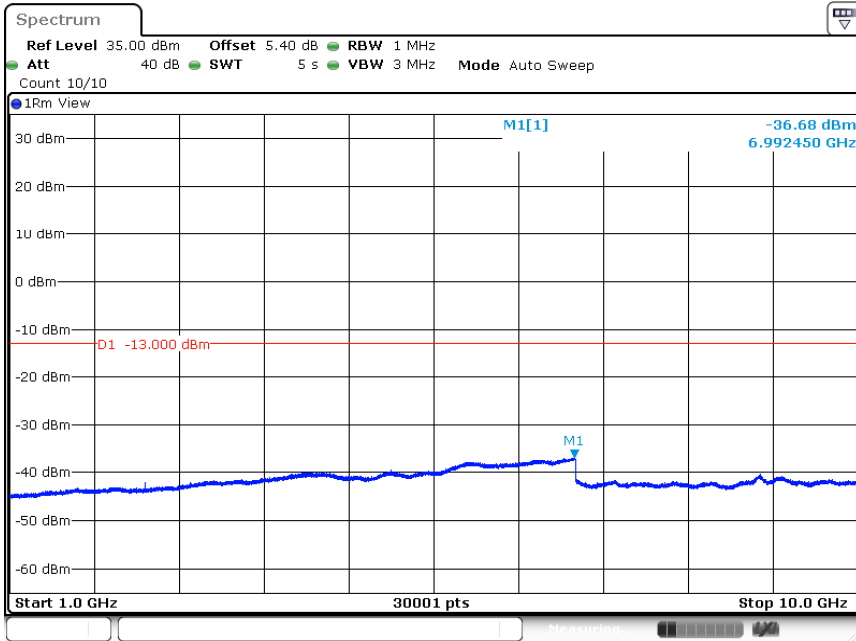


Date: 30.NOV.2020 22:30:18



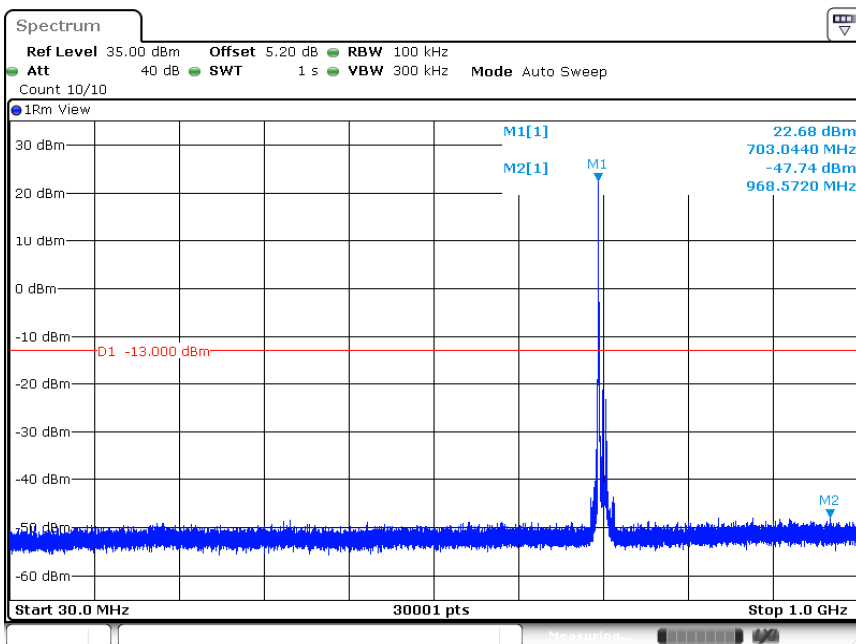
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Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 30.NOV.2020 22:31:26

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

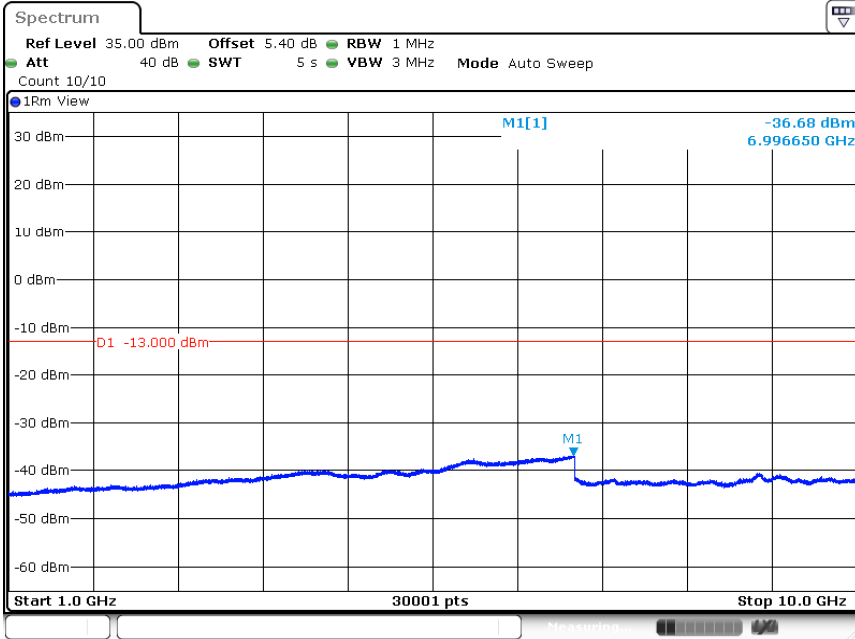


Date: 30.NOV.2020 22:33:13



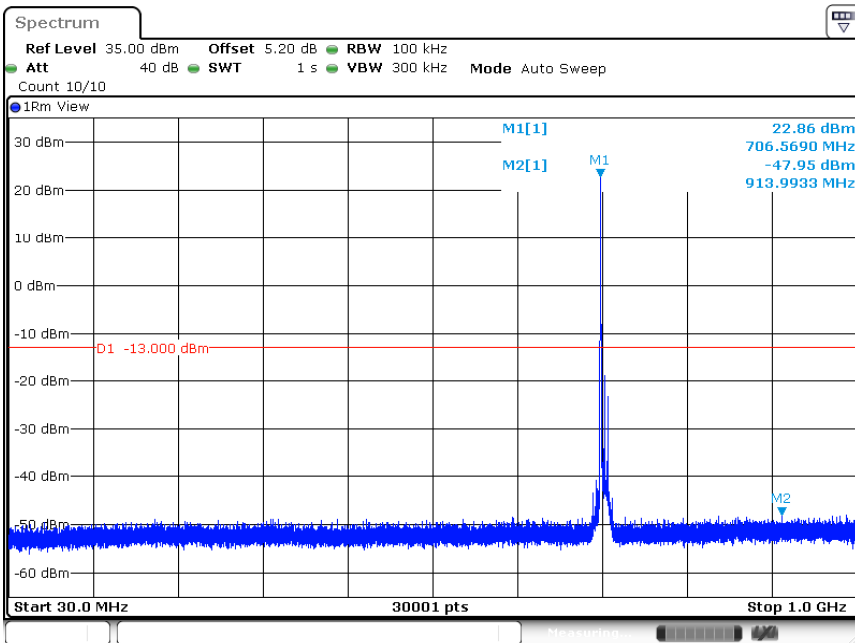
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Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 30.NOV.2020 22:34:20

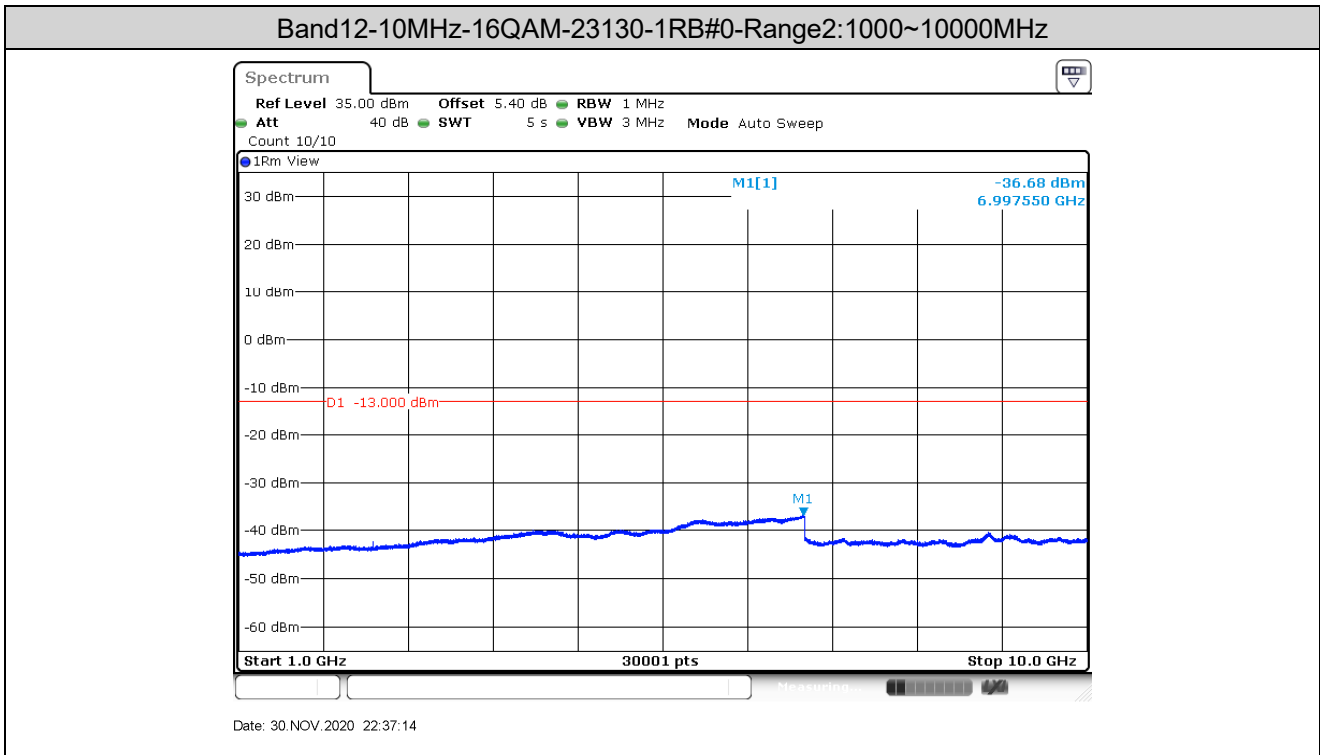
Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



Date: 30.NOV.2020 22:36:07



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7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 10MHz

7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.833333	-78.76	-13.00	65.76	Vertical
104.293333	-80.40	-13.00	67.40	Vertical
347.846667	-74.02	-13.00	61.02	Vertical
1399.000000	-64.80	-13.00	51.80	Vertical
2099.000000	-60.11	-13.00	47.11	Vertical
4319.175000	-64.81	-13.00	51.81	Vertical
56.226667	-75.27	-13.00	62.27	Horizontal
104.293333	-83.10	-13.00	70.10	Horizontal
355.406667	-68.91	-13.00	55.91	Horizontal
1399.000000	-63.92	-13.00	50.92	Horizontal
2099.000000	-58.20	-13.00	45.20	Horizontal
4284.562500	-65.06	-13.00	52.06	Horizontal

7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.486667	-78.60	-13.00	65.60	Vertical
104.293333	-82.17	-13.00	69.17	Vertical
351.066667	-73.86	-13.00	60.86	Vertical
1406.000000	-65.46	-13.00	52.46	Vertical
2109.500000	-59.74	-13.00	46.74	Vertical
4344.037500	-65.10	-13.00	52.10	Vertical
63.086667	-75.15	-13.00	62.15	Horizontal
104.293333	-83.10	-13.00	70.10	Horizontal
354.146667	-68.57	-13.00	55.57	Horizontal
1406.000000	-65.72	-13.00	52.72	Horizontal
2109.500000	-57.05	-13.00	44.05	Horizontal
4421.550000	-64.97	-13.00	51.97	Horizontal



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7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.160000	-79.15	-13.00	66.15	Vertical
104.246667	-81.25	-13.00	68.25	Vertical
347.520000	-74.63	-13.00	61.63	Vertical
1413.000000	-63.75	-13.00	50.75	Vertical
2120.000000	-58.23	-13.00	45.23	Vertical
6057.600000	-63.30	-13.00	50.30	Vertical
62.713333	-75.39	-13.00	62.39	Horizontal
104.293333	-83.03	-13.00	70.03	Horizontal
350.740000	-68.49	-13.00	55.49	Horizontal
1413.000000	-63.93	-13.00	50.93	Horizontal
2120.000000	-56.00	-13.00	43.00	Horizontal
4312.350000	-64.99	-13.00	51.99	Horizontal

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.



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8 Frequency Stability

8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-4.70	-0.006676	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-3.40	-0.004830	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-4.50	-0.006392	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-2.30	-0.003251	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.60	-0.002261	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-4.40	-0.006188	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-9.00	-0.012658	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-7.40	-0.010408	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-12.30	-0.017472	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-7.80	-0.011080	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-2.40	-0.003392	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-2.90	-0.004099	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-2.80	-0.003958	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-8.20	-0.011533	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-5.20	-0.007314	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-4.40	-0.006188	±2.5	PASS

8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-3.90	-0.005540	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-3.60	-0.005114	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-4.50	-0.006392	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-5.30	-0.007528	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-6.60	-0.009375	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-6.60	-0.009375	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-8.50	-0.012074	±2.5	PASS



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Band12	10MHz	QPSK	23060	50RB#0	NV	40	-6.90	-0.009801	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-5.60	-0.007955	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.10	-0.011449	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.60	-0.006502	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-4.30	-0.006078	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-4.60	-0.006502	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-5.10	-0.007208	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.20	-0.007350	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.70	-0.008057	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-8.20	-0.011590	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-7.90	-0.011111	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-0.90	-0.001266	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-11.90	-0.016737	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-8.00	-0.011252	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-14.90	-0.020956	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-3.20	-0.004501	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-2.20	-0.003094	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.60	-0.005063	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-6.90	-0.009705	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-4.80	-0.006818	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-7.20	-0.010227	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-4.00	-0.005682	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-4.50	-0.006392	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-6.60	-0.009375	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-7.80	-0.011080	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-7.30	-0.010369	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-10.90	-0.015483	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-7.90	-0.011166	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-7.50	-0.010601	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-8.30	-0.011731	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.60	-0.003675	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-5.50	-0.007774	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-3.00	-0.004240	±2.5	PASS



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Band12	10MHz	16QAM	23095	50RB#0	NV	50	-4.10	-0.005795	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-8.90	-0.012518	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-3.90	-0.005485	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-5.10	-0.007173	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-2.70	-0.003797	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-11.10	-0.015612	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-9.00	-0.012658	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-4.40	-0.006188	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-14.90	-0.020956	±2.5	PASS

The End



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