



Appendix B

E-UTRA Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	23.32	22.75	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.42	22.85	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.34	22.77	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.28	21.71	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.28	21.71	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.29	21.72	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.33	21.76	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.30	22.73	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.29	22.72	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.38	22.81	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.31	21.74	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.28	21.71	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.19	21.62	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.29	21.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.39	22.82	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.35	22.78	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.33	22.76	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.27	21.7	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.27	21.7	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.37	21.8	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.30	21.73	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.60	21.03	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.67	21.1	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.63	21.06	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.70	20.13	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.62	20.05	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.66	20.09	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.73	20.16	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.64	21.07	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.63	21.06	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.62	21.05	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.54	19.97	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.61	20.04	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.70	20.13	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.69	20.12	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.66	21.09	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.64	21.07	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.58	21.01	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.71	20.14	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.65	20.08	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.70	20.13	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.67	20.1	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.64	18.07	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.67	18.1	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.65	18.08	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#13	18.45	17.88	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#6	18.46	17.89	34.77	PASS
Band17	5MHz	256QAM	23755	12RB#0	18.41	17.84	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.44	17.87	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.64	18.07	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.69	18.12	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.60	18.03	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#0	18.48	17.91	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#6	18.43	17.86	34.77	PASS
Band17	5MHz	256QAM	23790	12RB#13	18.36	17.79	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.44	17.87	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.58	18.01	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.59	18.02	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.56	17.99	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#0	18.52	17.95	34.77	PASS



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Band17	5MHz	256QAM	23825	12RB#6	18.43	17.86	34.77	PASS
Band17	5MHz	256QAM	23825	12RB#13	18.43	17.86	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.49	17.92	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.48	21.91	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.64	22.07	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.52	21.95	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.27	20.7	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.30	20.73	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.28	20.71	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.31	20.74	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.52	21.95	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.56	21.99	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.37	21.8	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.19	20.62	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.28	20.71	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.30	20.73	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.26	20.69	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.46	21.89	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.45	21.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.41	21.84	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.26	20.69	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.31	20.74	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.37	20.8	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.32	20.75	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.29	22.72	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.38	22.81	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.29	22.72	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.24	21.67	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.24	21.67	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.34	21.77	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.25	21.68	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.26	22.69	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.40	22.83	34.77	PASS



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Band17	10MHz	QPSK	23790	1RB#24	23.40	22.83	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.27	21.7	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.32	21.75	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.23	21.66	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.27	21.7	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.33	22.76	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.38	22.81	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.37	22.8	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.33	21.76	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.29	21.72	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.31	21.74	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.30	21.73	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.65	21.08	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.68	21.11	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.72	21.15	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.63	20.06	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.62	20.05	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.62	20.05	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.60	20.03	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.64	21.07	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.64	21.07	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.65	21.08	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.69	20.12	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.61	20.04	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.67	20.1	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.66	20.09	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.72	21.15	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.64	21.07	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.73	21.16	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.63	20.06	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.67	20.1	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.70	20.13	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.65	20.08	34.77	PASS



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Band17	10MHz	256QAM	23780	1RB#24	18.72	18.15	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.55	17.98	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.63	18.06	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#0	18.40	17.83	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#12	18.41	17.84	34.77	PASS
Band17	10MHz	256QAM	23780	25RB#25	18.36	17.79	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.35	17.78	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.55	17.98	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.66	18.09	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.70	18.13	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#12	18.47	17.9	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#25	18.42	17.85	34.77	PASS
Band17	10MHz	256QAM	23790	25RB#0	18.42	17.85	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.38	17.81	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.56	17.99	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.67	18.1	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.55	17.98	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#0	18.47	17.9	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#12	18.44	17.87	34.77	PASS
Band17	10MHz	256QAM	23800	25RB#25	18.43	17.86	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.44	17.87	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.62	22.05	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.39	21.82	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.42	21.85	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.21	20.64	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.20	20.63	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.33	20.76	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.25	20.68	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.53	21.96	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.58	22.01	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.54	21.97	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.26	20.69	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.31	20.74	34.77	PASS



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Band17	10MHz	16QAM	23790	25RB#25	21.23	20.66	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.26	20.69	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.61	22.04	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.49	21.92	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.50	21.93	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.26	20.69	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.27	20.7	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.27	20.7	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.27	20.7	34.77	PASS

Remark:

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

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

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

The conducted Power is measured by Base Station Simulator



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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

2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.25	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.30	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.17	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.23	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.23	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.26	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.23	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.26	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.06	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.03	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.06	13	PASS



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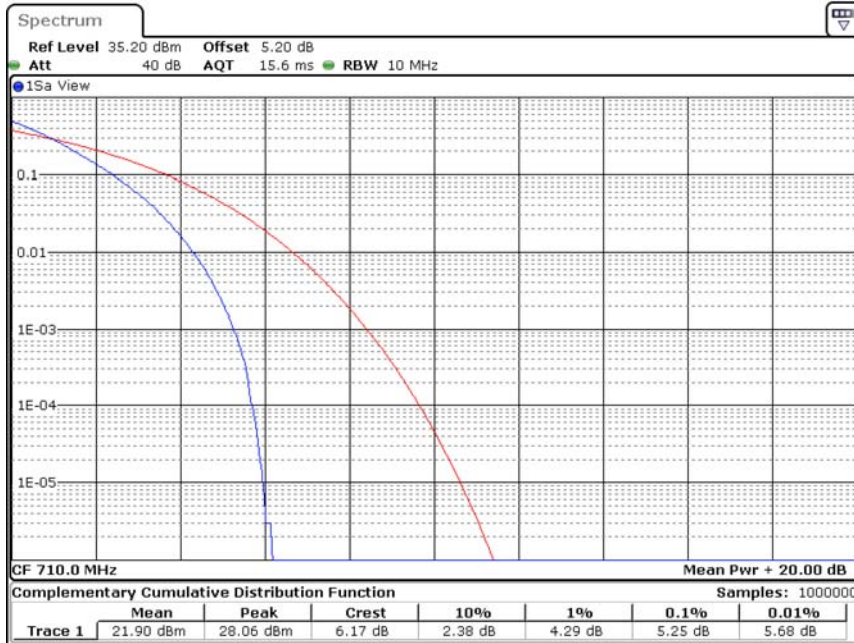
2.2. Test Plots

Band17-10MHz-QPSK-23780-50RB#0



Date: 16 MAY 2021 12:12:27

Band17-10MHz-QPSK-23790-50RB#0

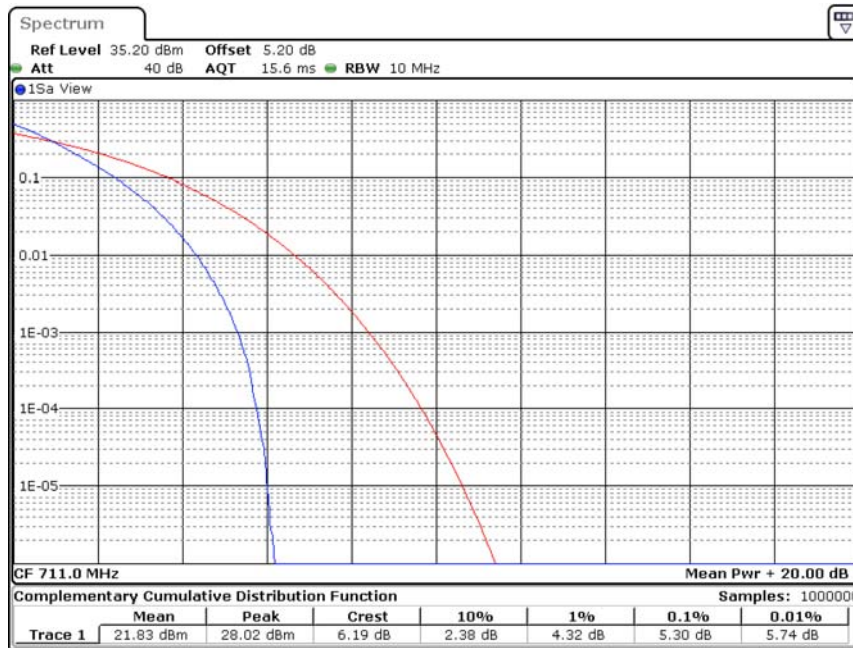


Date: 16 MAY 2021 12:12:49



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Band17-10MHz-QPSK-23800-50RB#0



Date: 16.MAY.2021 12:13:12

Band17-10MHz-64QAM-23780-50RB#0

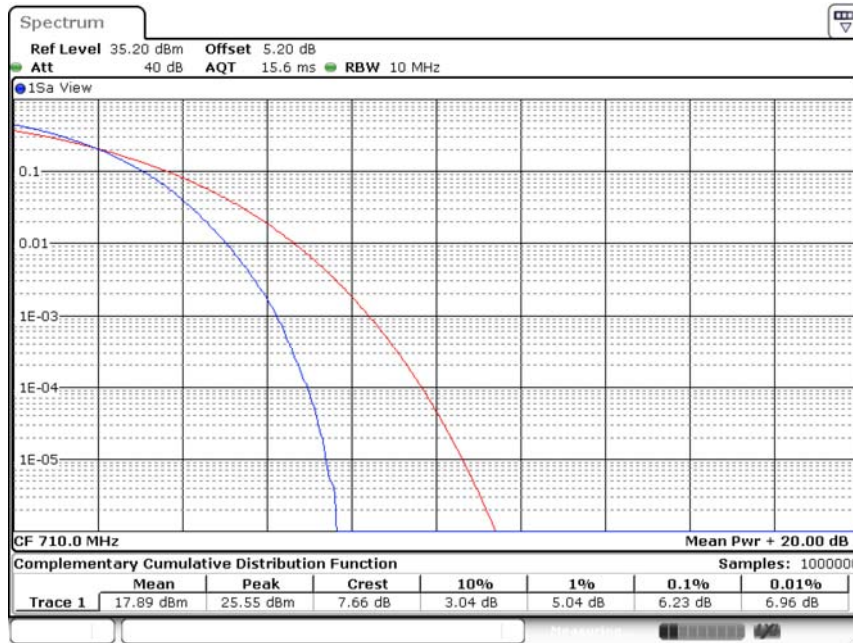


Date: 5.MAY.2021 04:50:35



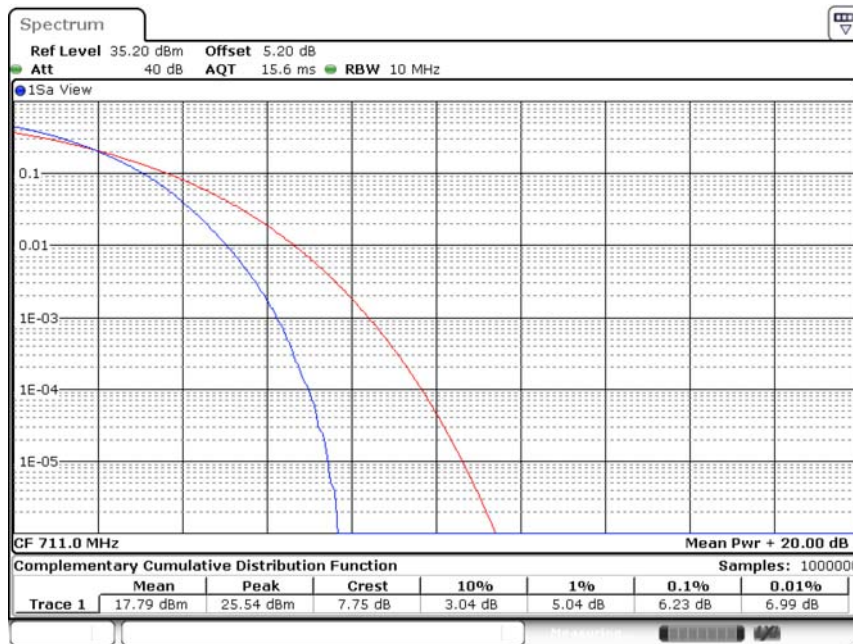
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Band17-10MHz-64QAM-23790-50RB#0



Date: 5.MAY.2021 04:50:46

Band17-10MHz-64QAM-23800-50RB#0



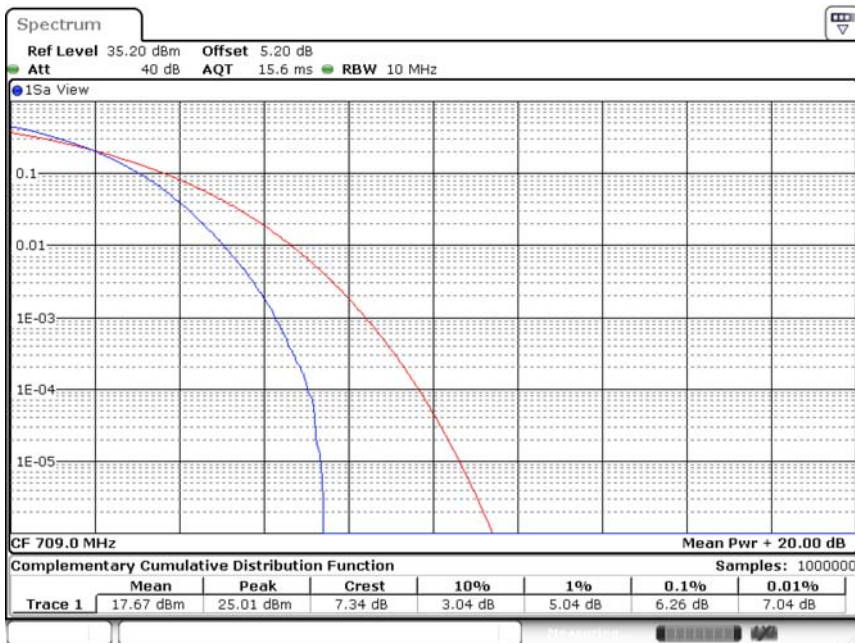
Date: 5.MAY.2021 04:50:58



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Band17-10MHz-256QAM-23780-50RB#0



Date: 7.MAY.2021 03:20:47

Band17-10MHz-256QAM-23790-50RB#0



Date: 7.MAY.2021 03:20:59



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Band17-10MHz-256QAM-23800-50RB#0



Date: 7.MAY.2021 03:21:10

Band17-10MHz-16QAM-23780-50RB#0



Date: 16.MAY.2021 12:12:38



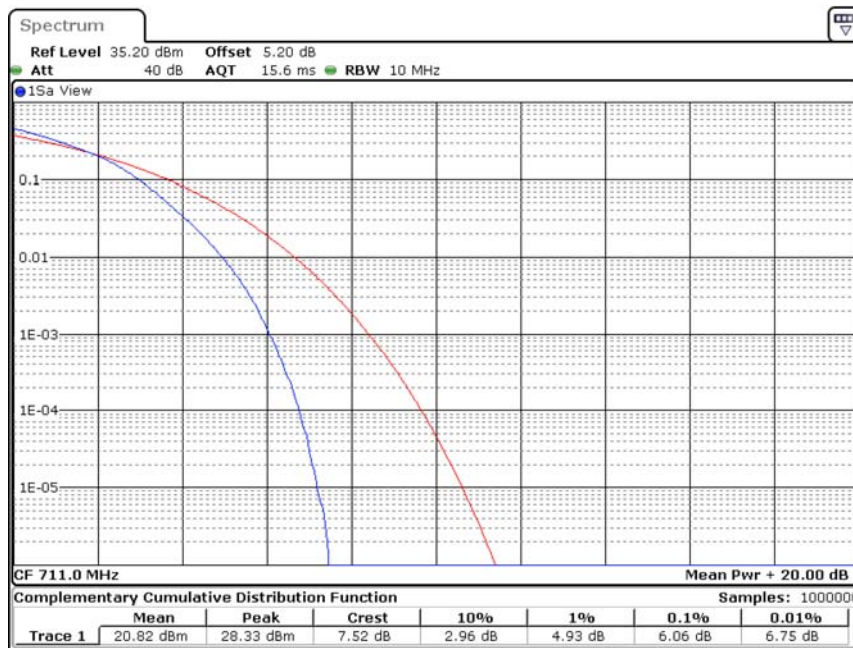
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Band17-10MHz-16QAM-23790-50RB#0



Date: 16 MAY 2021 12:13:01

Band17-10MHz-16QAM-23800-50RB#0



Date: 16 MAY 2021 12:13:23

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

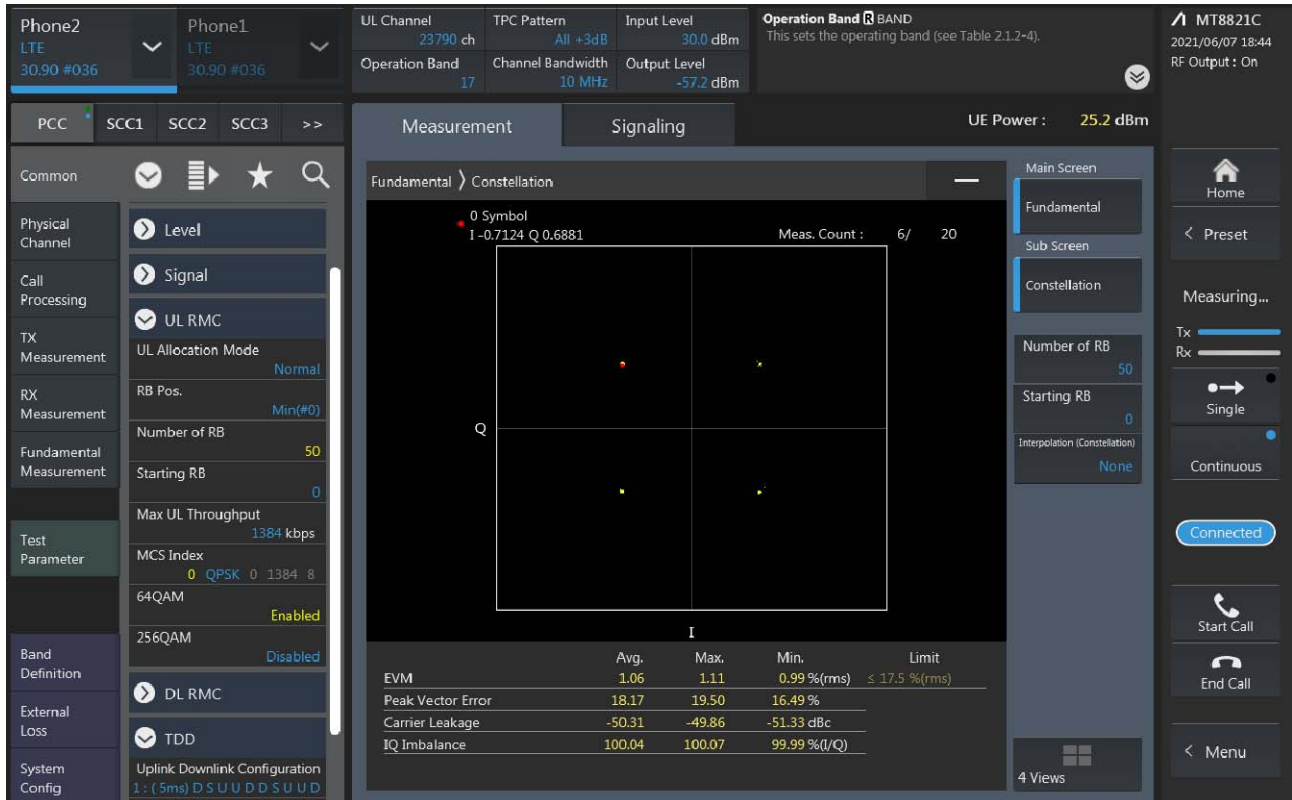


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



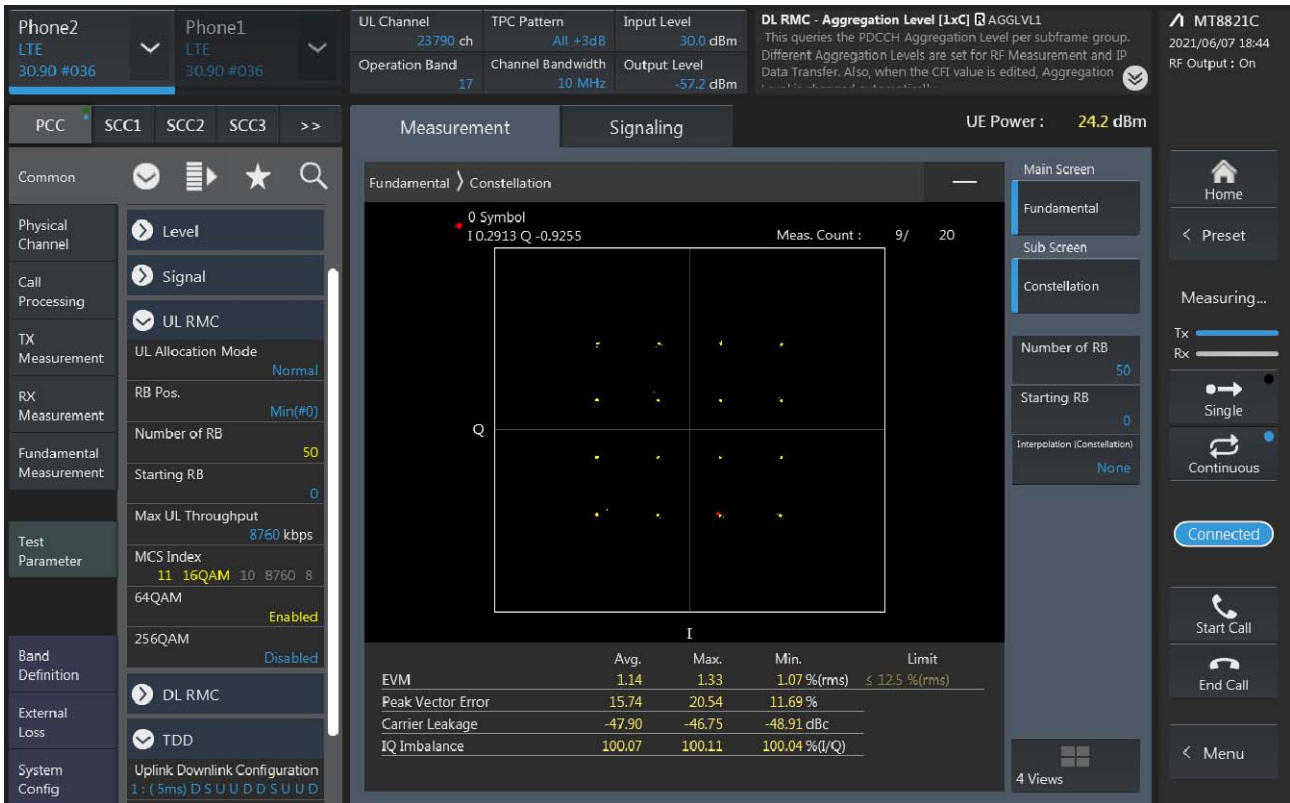
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH

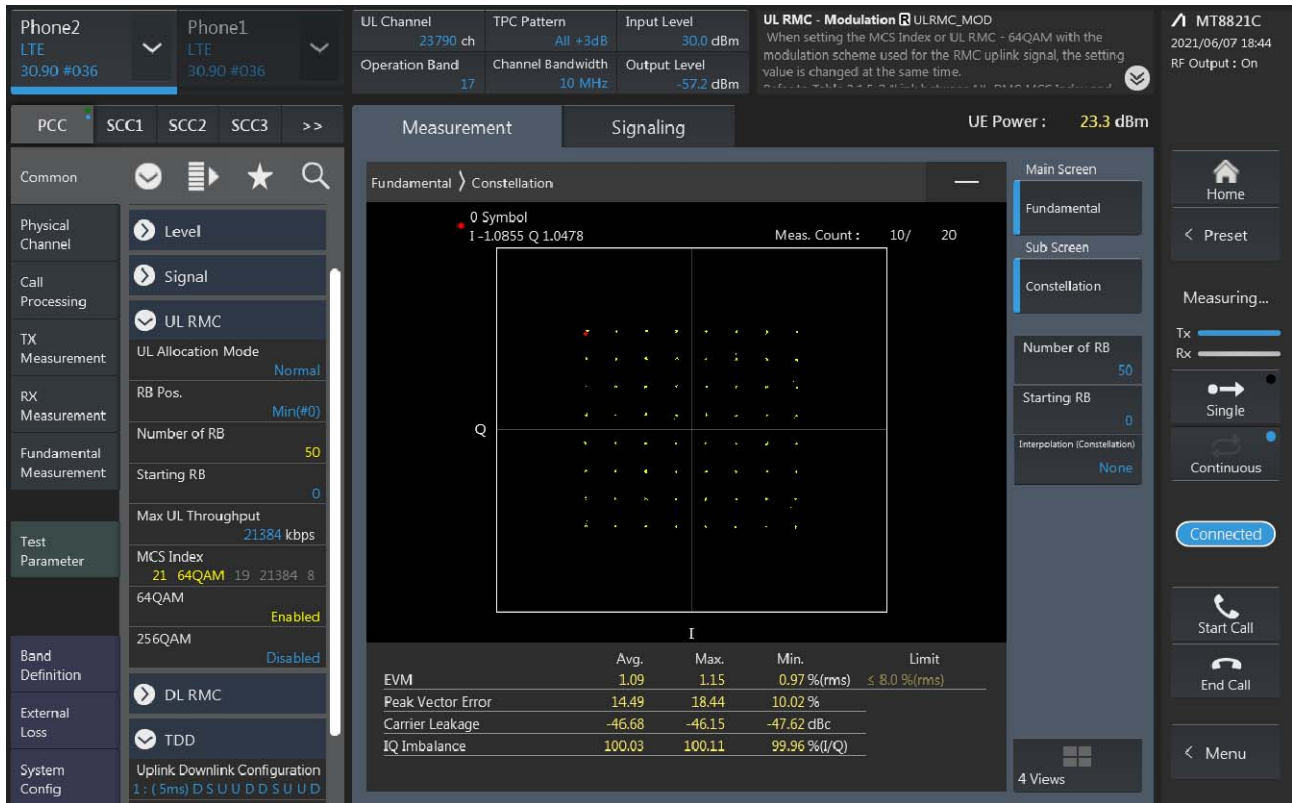


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3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



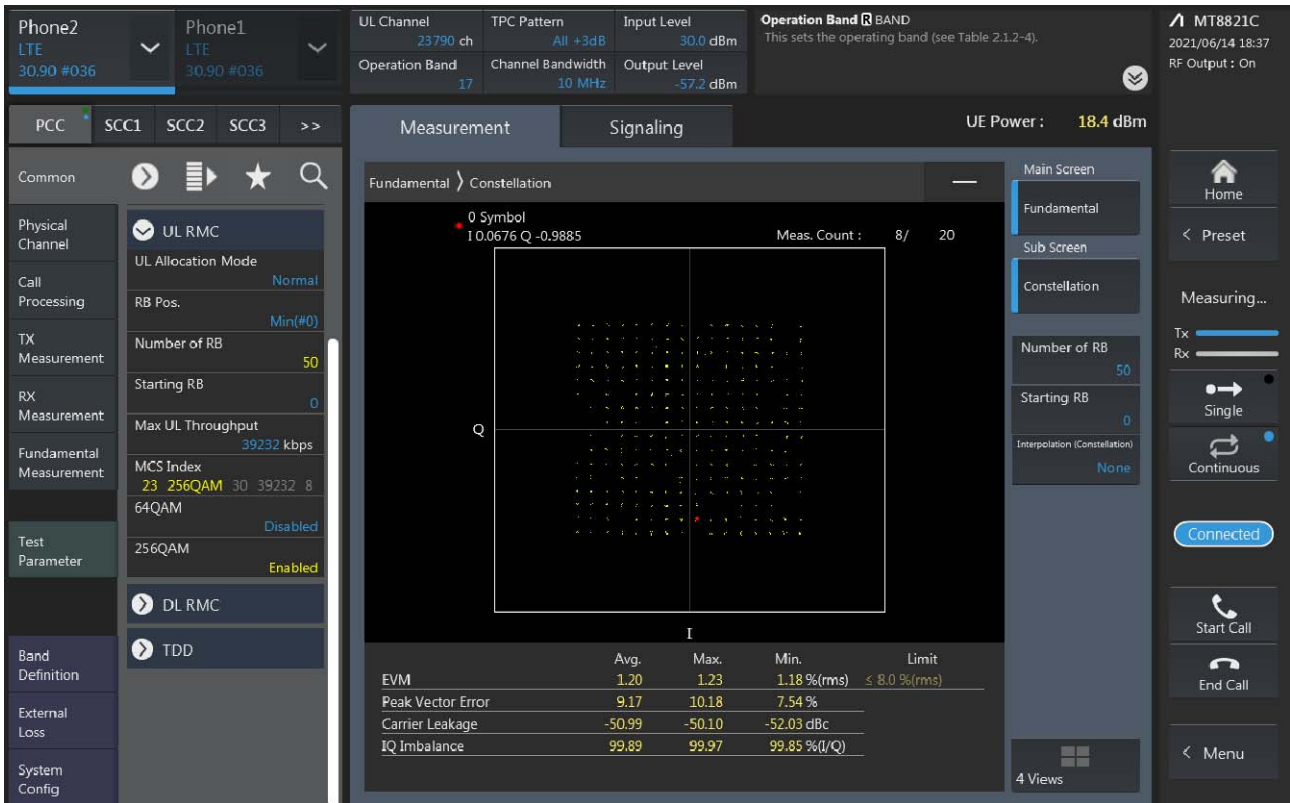
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3.4. Test Mode = LTE /TM4 10MHz

3.4.1. 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
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.880	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.466	4.850	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.890	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.466	4.880	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.466	4.850	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.860	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.476	4.870	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.476	4.860	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.476	4.880	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.880	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	4.880	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.910	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.931	9.620	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.640	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.911	9.620	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.911	9.560	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.911	9.520	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.540	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.931	9.560	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.911	9.540	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.931	9.560	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.911	9.640	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.660	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.911	9.640	PASS

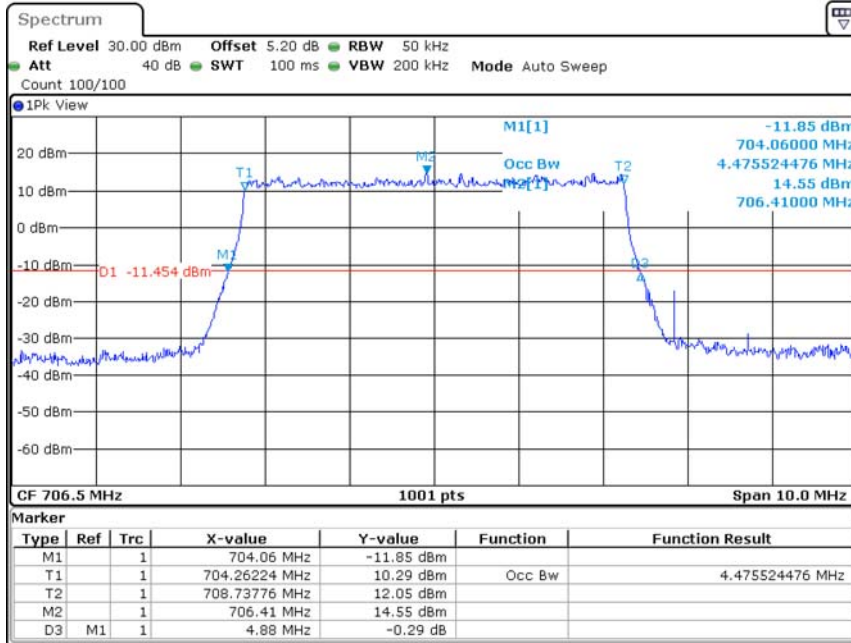


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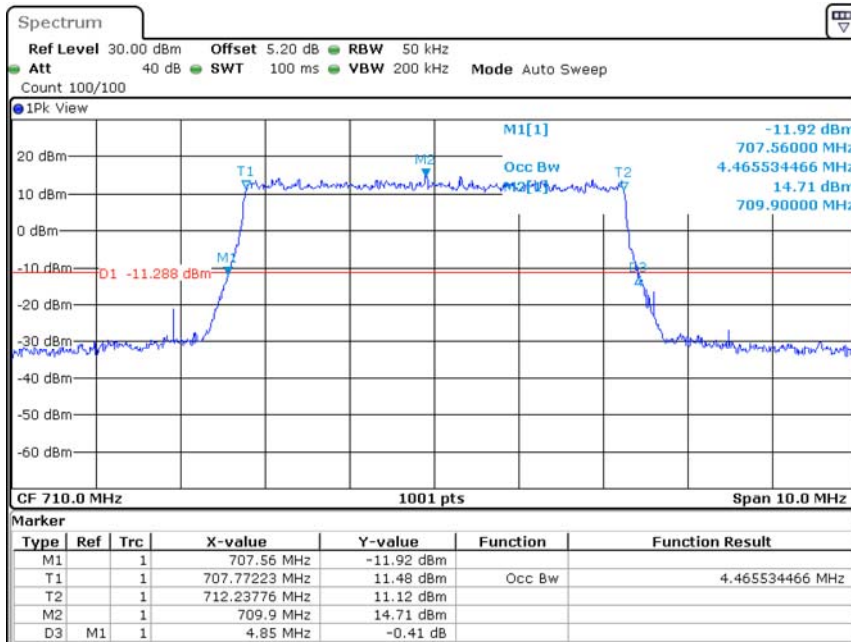
4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.476



Date: 16 MAY 2021 11:59:43

Band17-5MHz-QPSK-23790-25RB#0-4.466

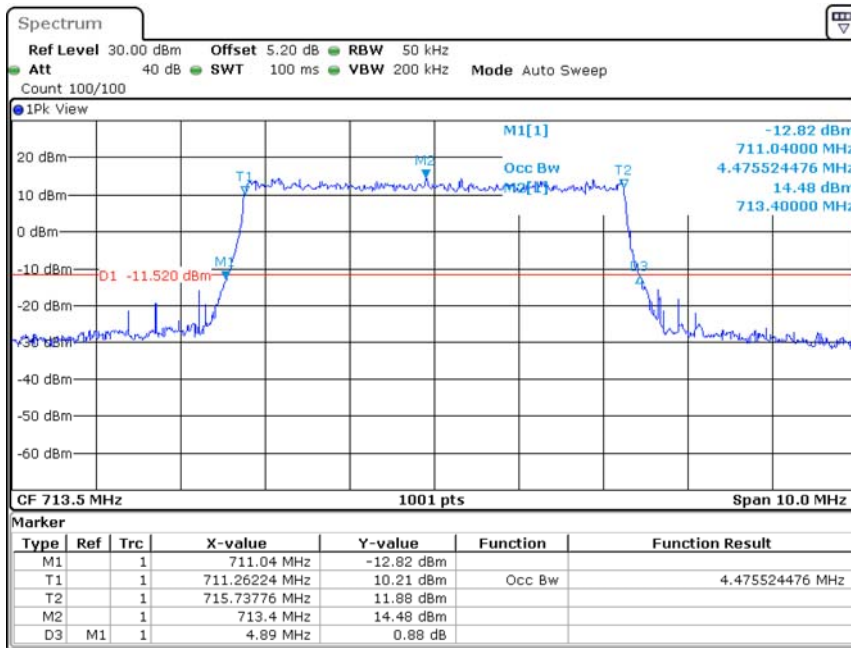


Date: 16 MAY 2021 12:00:23



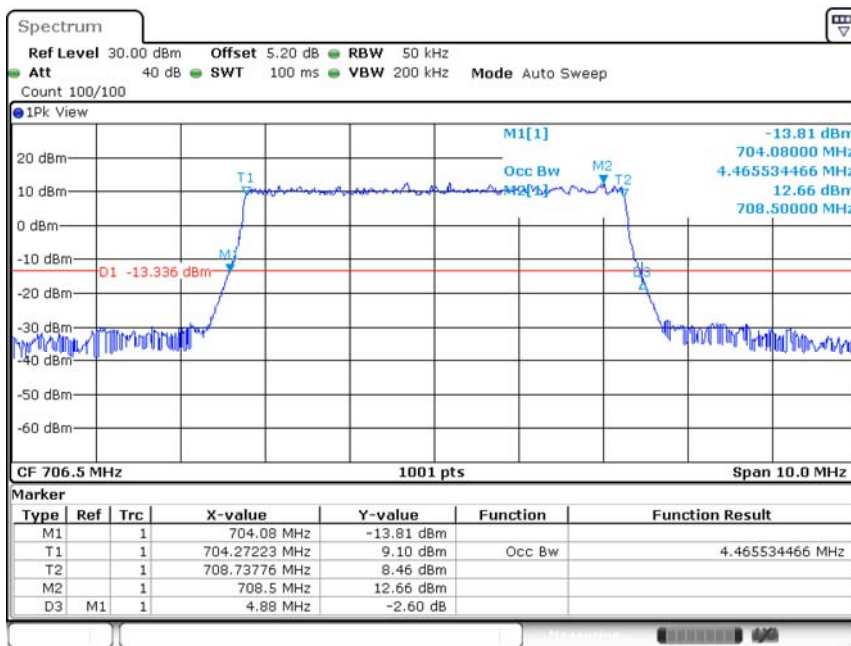
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Band17-5MHz-QPSK-23825-25RB#0-4.476



Date: 16.MAY.2021 12:01:02

Band17-5MHz-64QAM-23755-25RB#0-4.466



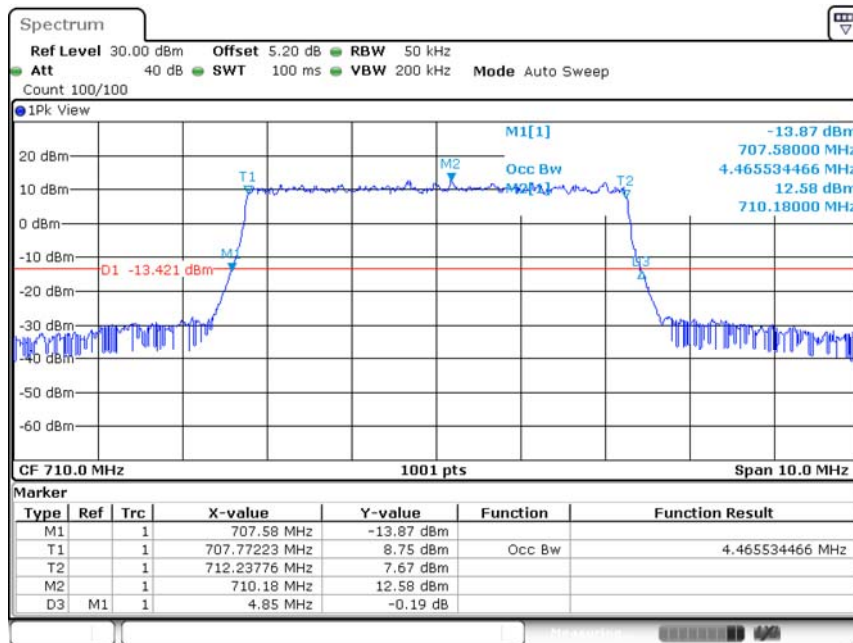
Date: 30.MAY.2021 08:29:27



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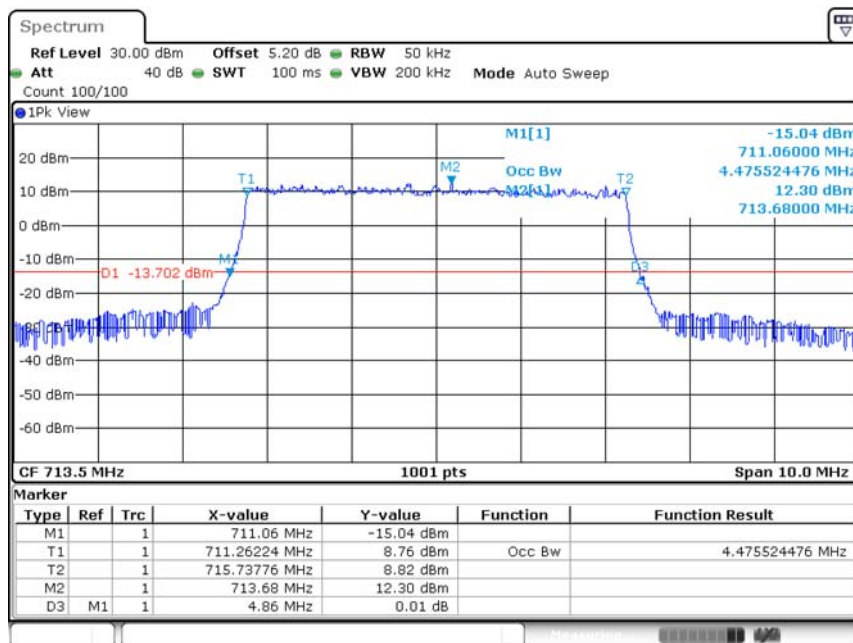
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Band17-5MHz-64QAM-23790-25RB#0-4.466



Date: 30.MAY.2021 08:29:47

Band17-5MHz-64QAM-23825-25RB#0-4.476

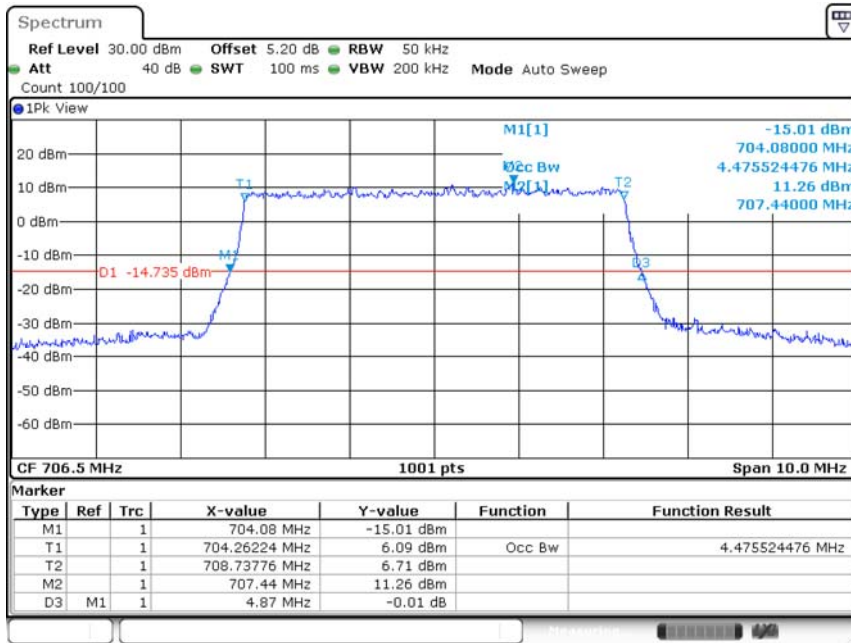


Date: 30.MAY.2021 08:30:07



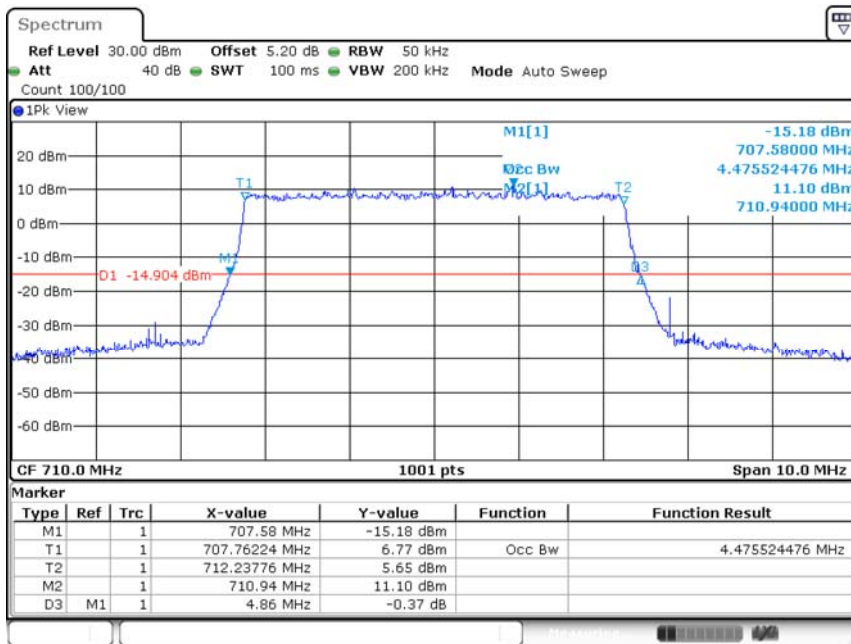
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Band17-5MHz-256QAM-23755-25RB#0-4.476



Date: 5.MAY.2021 03:38:25

Band17-5MHz-256QAM-23790-25RB#0-4.476

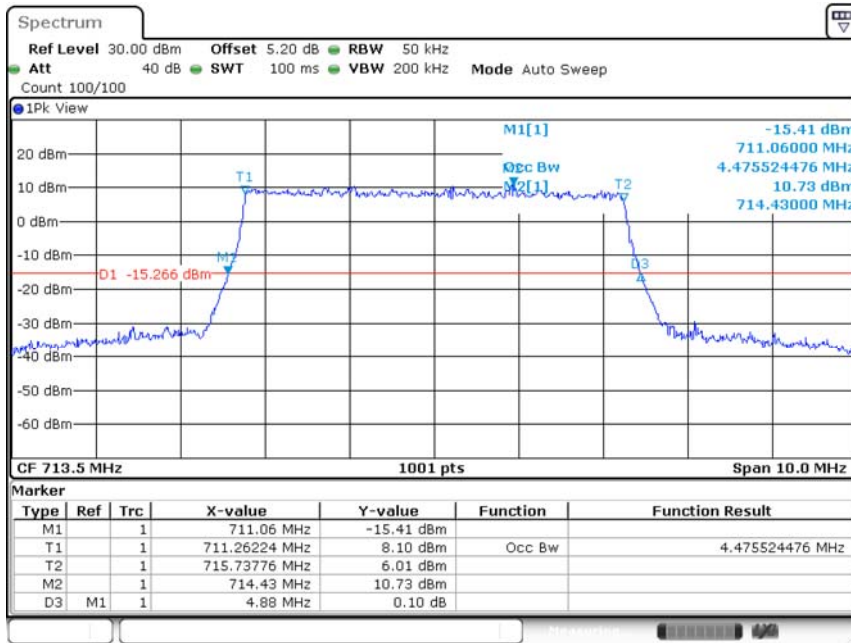


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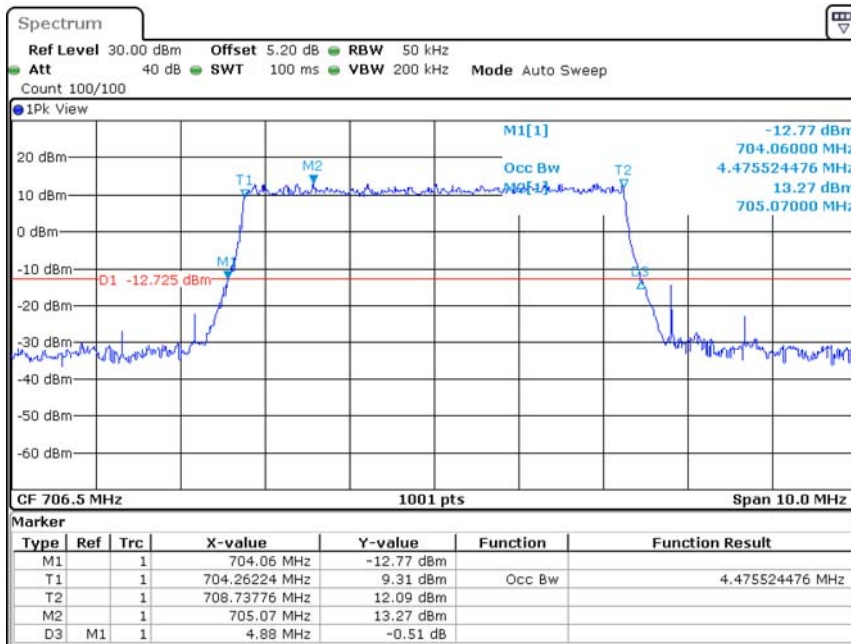
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Band17-5MHz-256QAM-23825-25RB#0-4.476



Date: 5.MAY.2021 03:39:05

Band17-5MHz-16QAM-23755-25RB#0-4.476

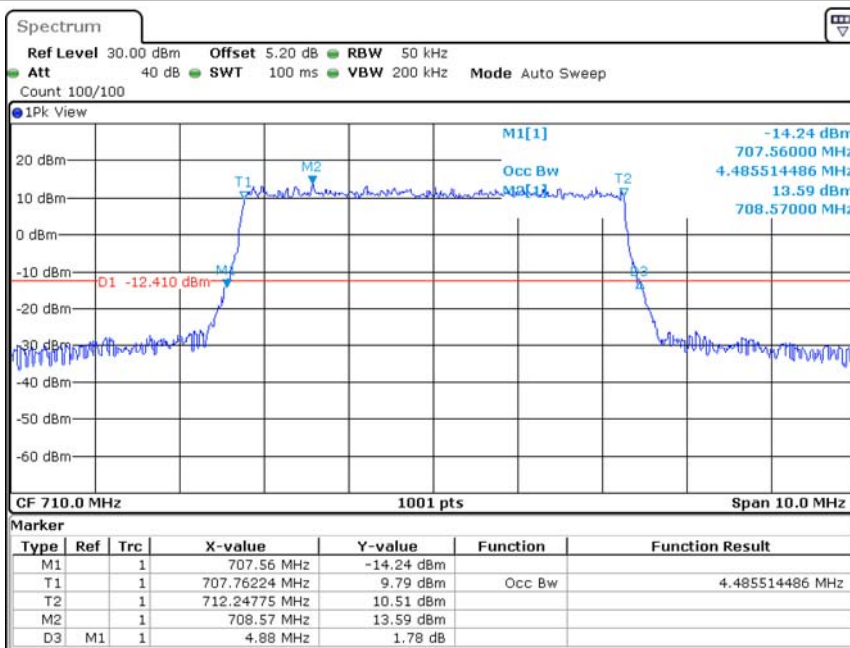


Date: 16.MAY.2021 12:00:03



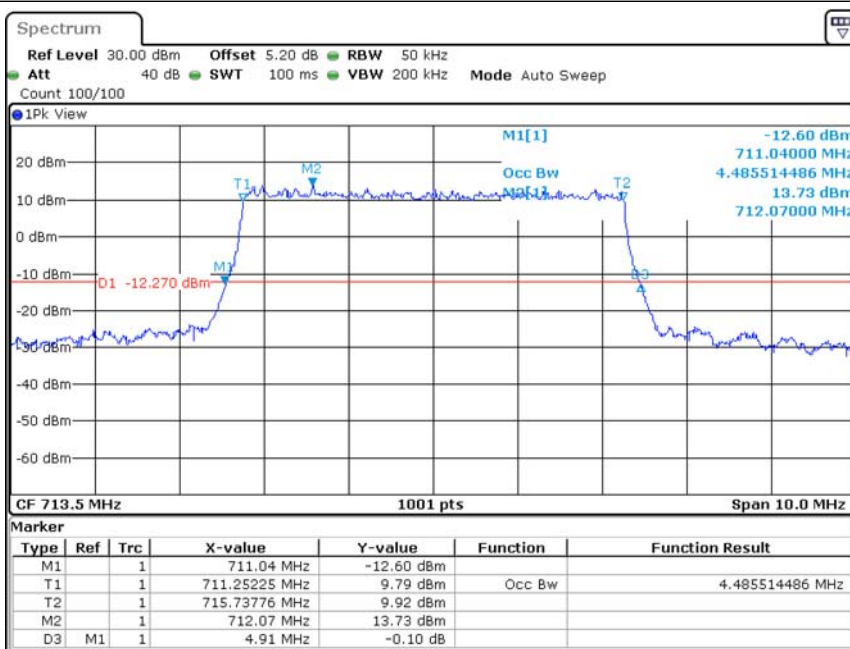
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Band17-5MHz-16QAM-23790-25RB#0-4.486



Date: 16.MAY.2021 12:00:42

Band17-5MHz-16QAM-23825-25RB#0-4.486



Date: 16.MAY.2021 12:01:22

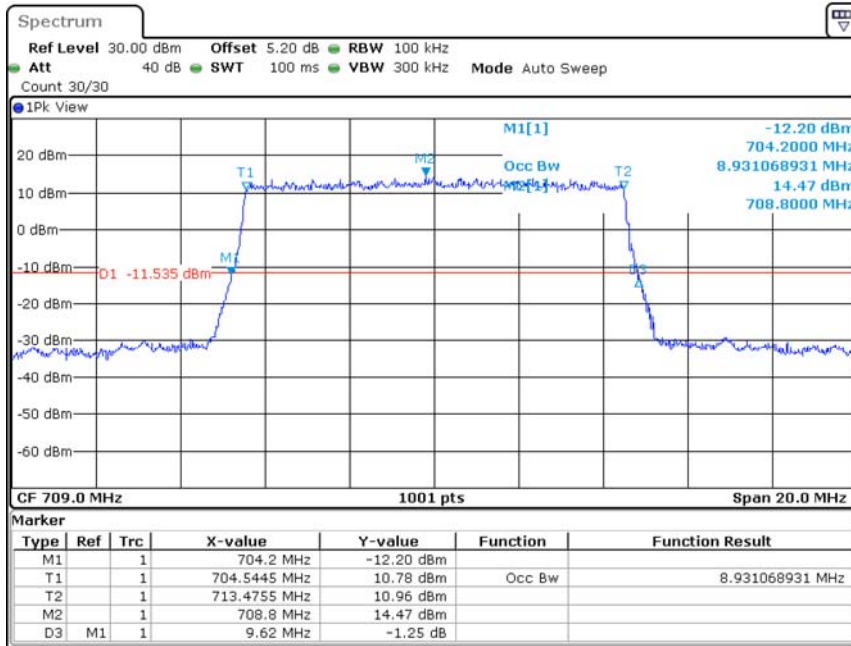


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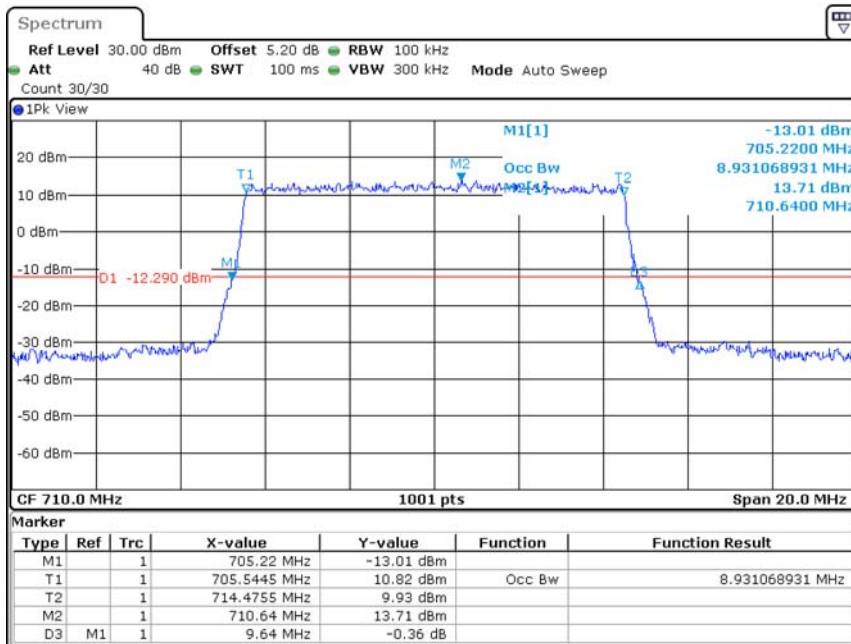
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Band17-10MHz-QPSK-23780-50RB#0-8.931



Date: 16.MAY.2021 12:01:41

Band17-10MHz-QPSK-23790-50RB#0-8.931



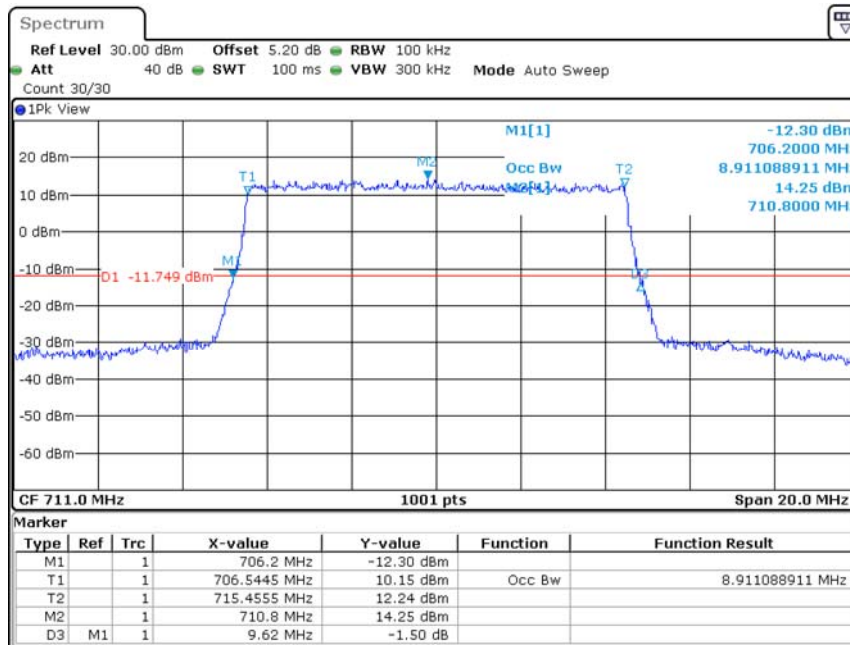
Date: 16.MAY.2021 12:02:07



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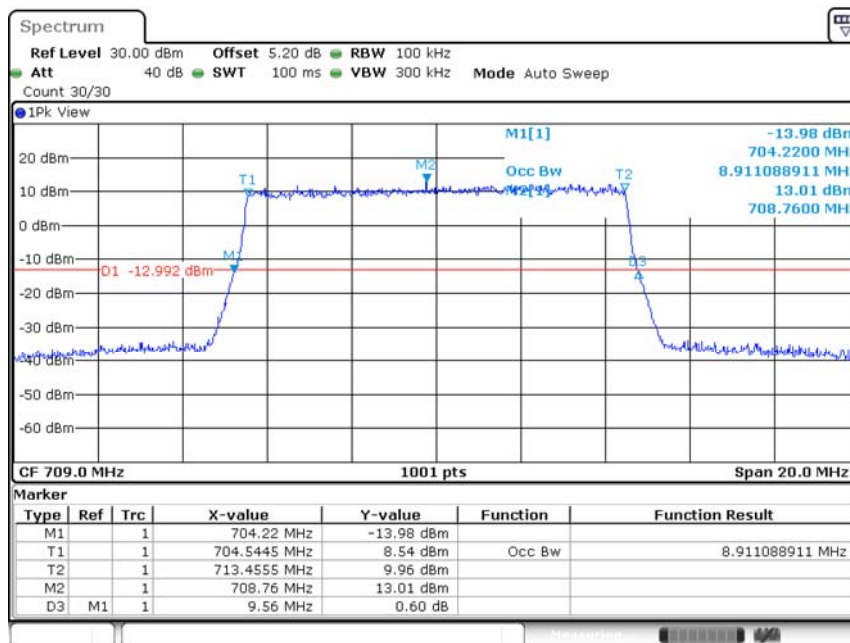
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Band17-10MHz-QPSK-23800-50RB#0-8.911



Date: 16 MAY 2021 12:02:33

Band17-10MHz-64QAM-23780-50RB#0-8.911

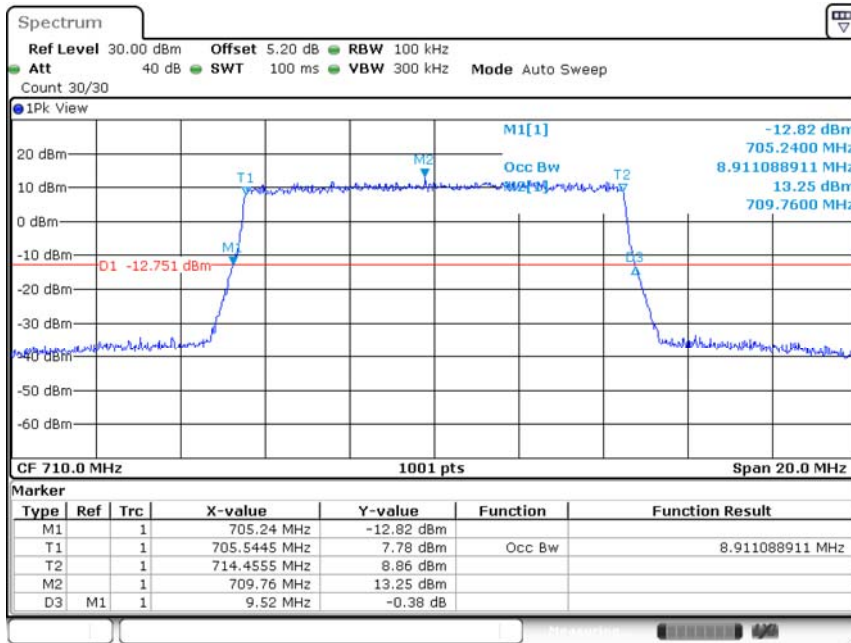


Date: 30 MAY 2021 08:30:27



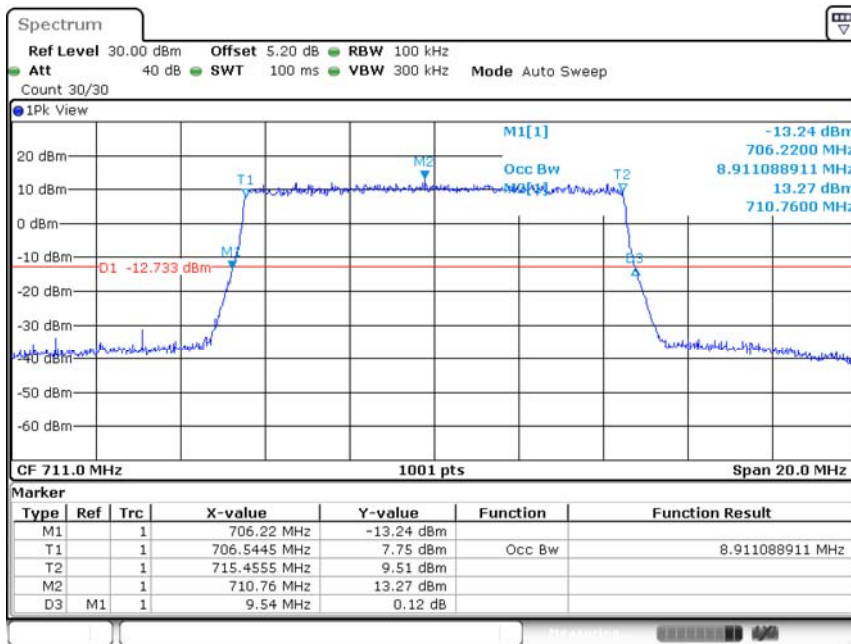
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Band17-10MHz-64QAM-23790-50RB#0-8.911



Date: 30.MAY.2021 08:30:40

Band17-10MHz-64QAM-23800-50RB#0-8.911

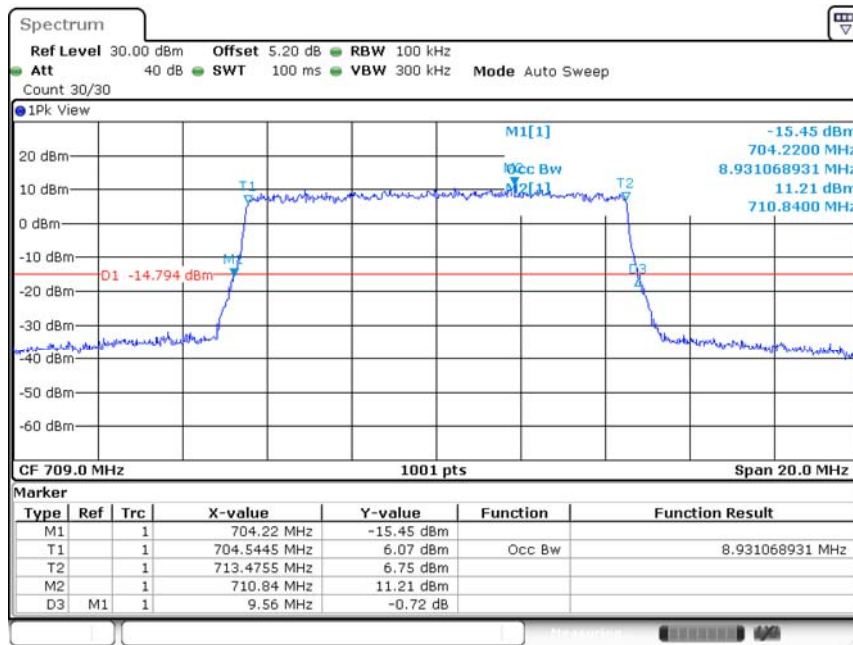


Date: 30.MAY.2021 08:30:53



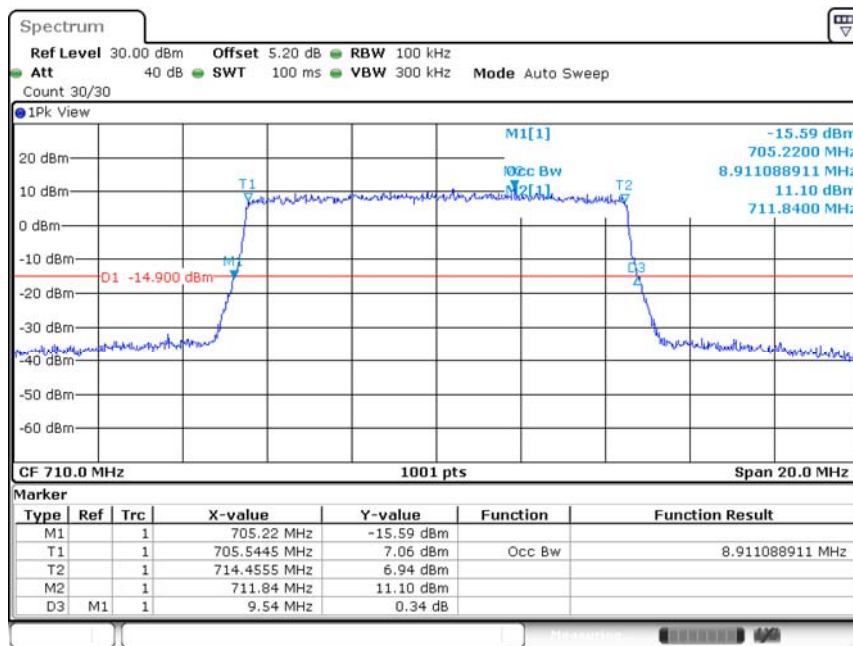
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Band17-10MHz-256QAM-23780-50RB#0-8.931



Date: 5.MAY.2021 03:39:27

Band17-10MHz-256QAM-23790-50RB#0-8.911

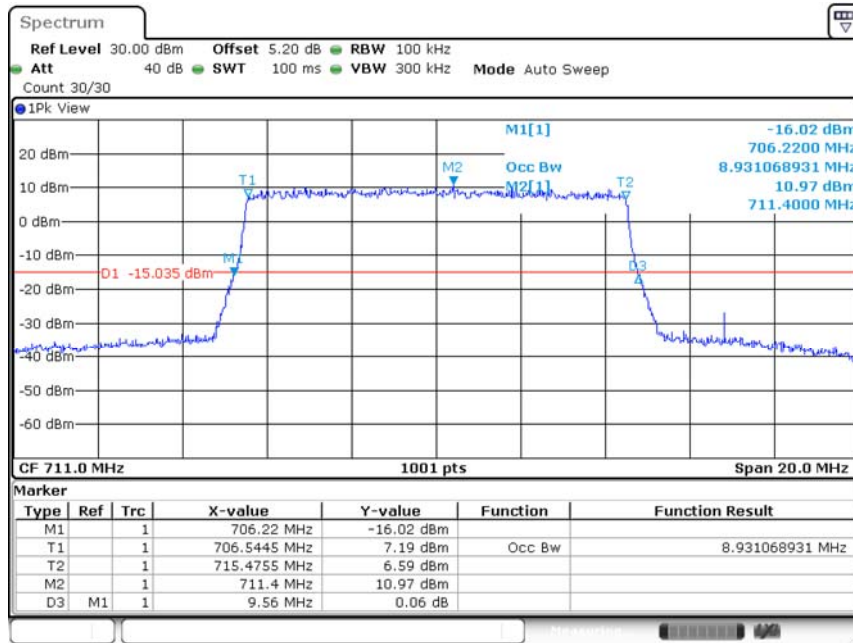


Date: 5.MAY.2021 03:39:44



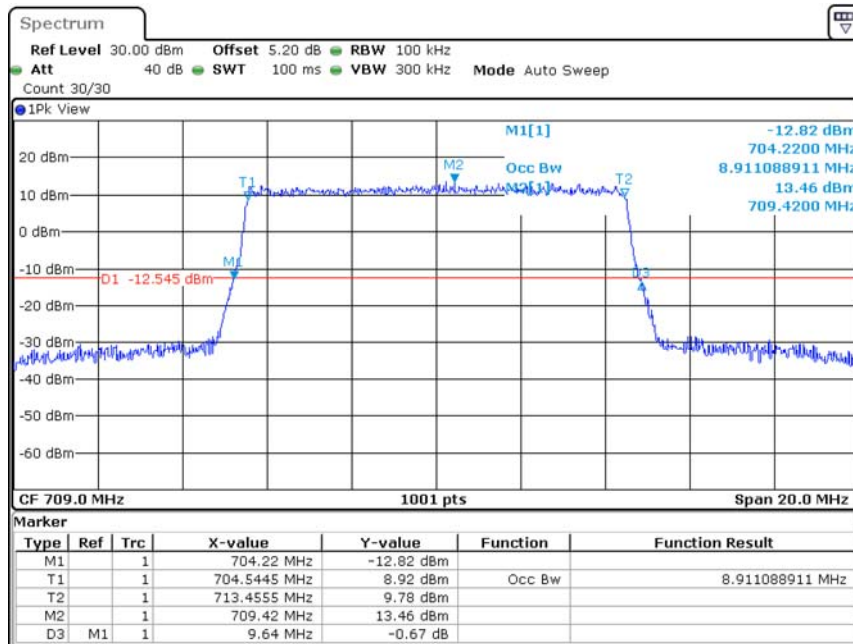
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Band17-10MHz-256QAM-23800-50RB#0-8.931



Date: 5.MAY.2021 03:40:02

Band17-10MHz-16QAM-23780-50RB#0-8.911

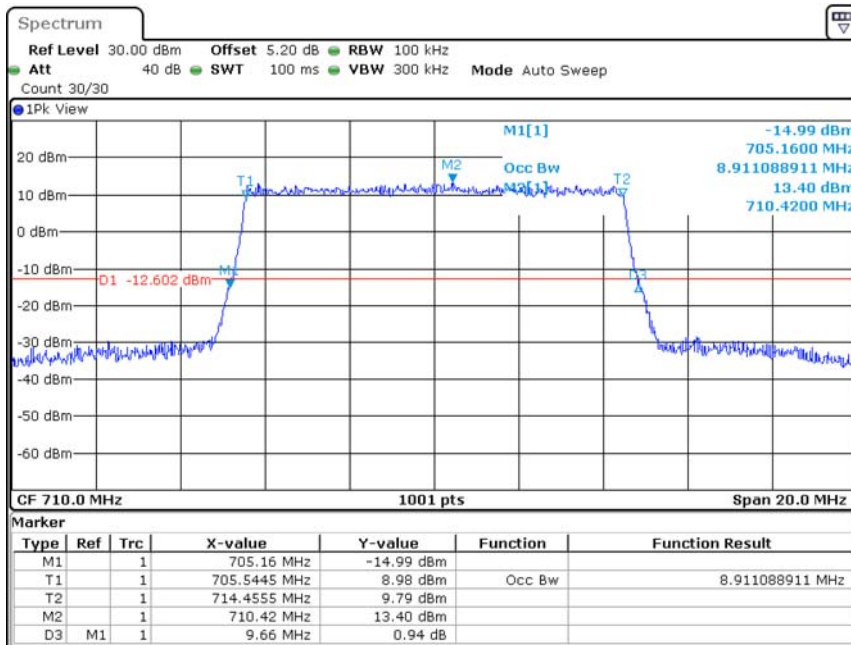


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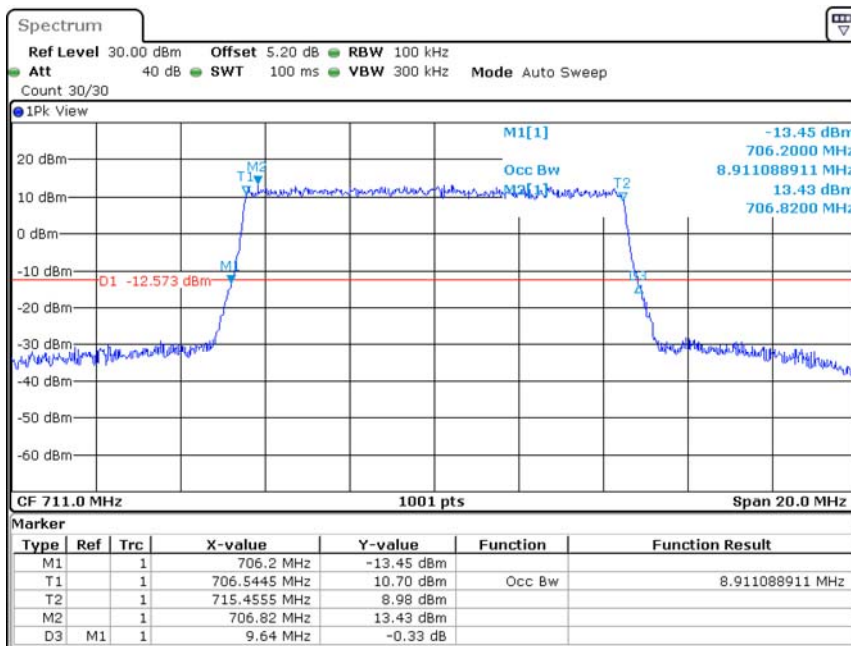
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Band17-10MHz-16QAM-23790-50RB#0-8.911



Date: 16 MAY 2021 12:02:20

Band17-10MHz-16QAM-23800-50RB#0-8.911



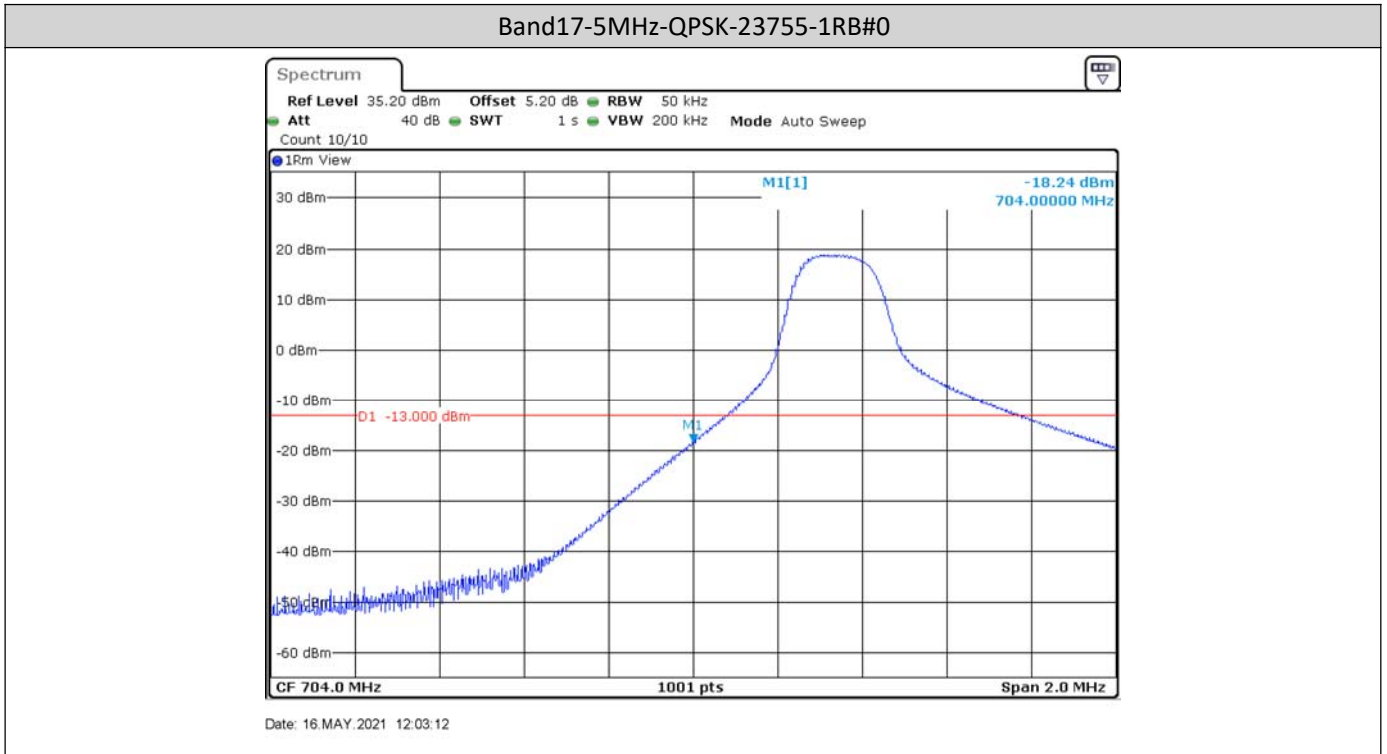
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5. Band Edge Compliance

5.1. Test Plots



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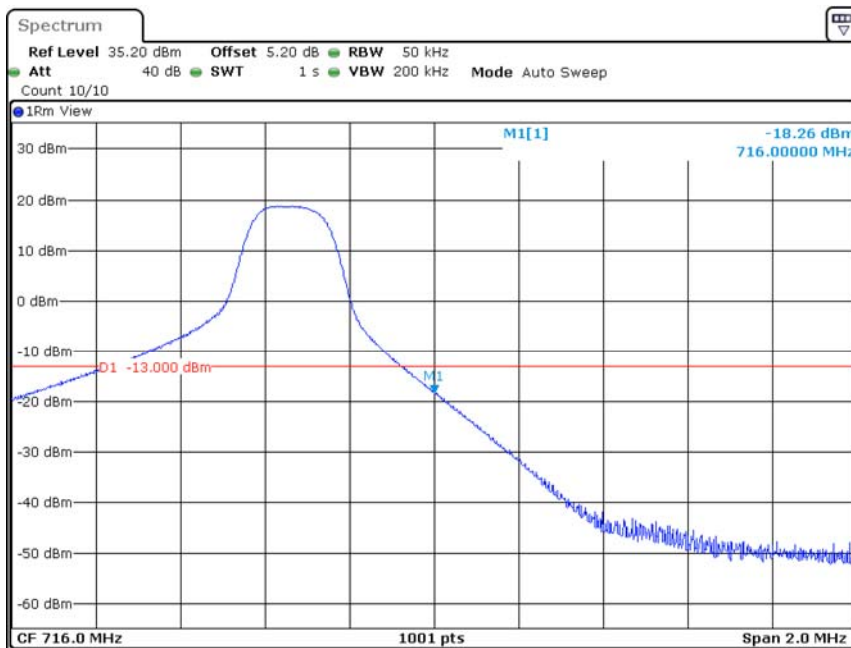
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Band17-5MHz-QPSK-23755-25RB#0



Date: 16 MAY 2021 12:03:53

Band17-5MHz-QPSK-23825-1RB#24

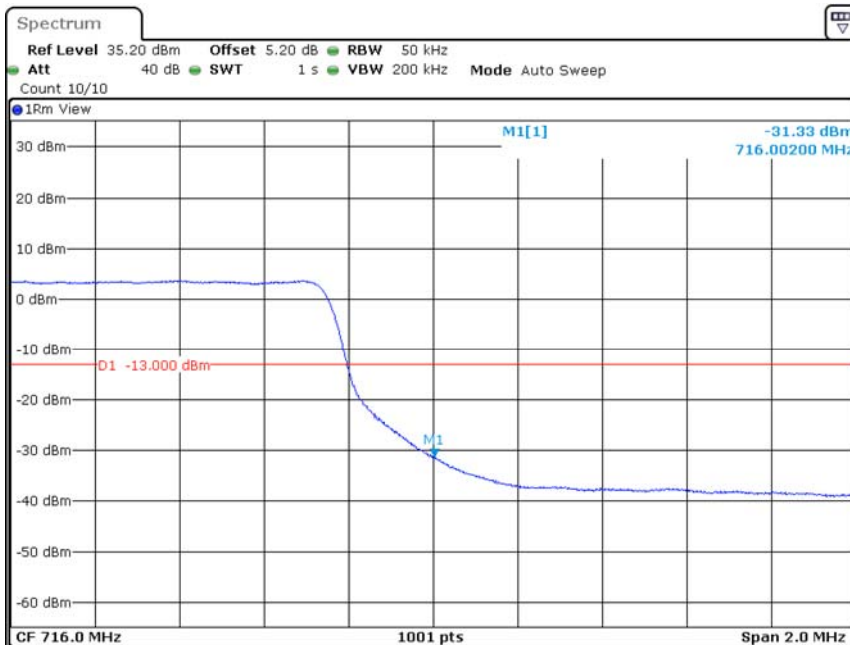


Date: 16 MAY 2021 12:04:39



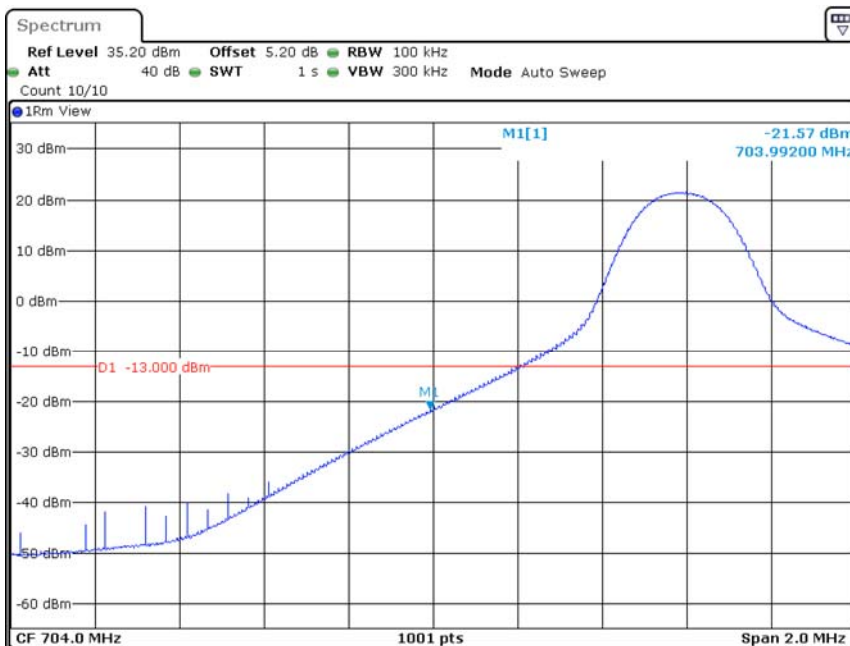
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Band17-5MHz-QPSK-23825-25RB#0



Date: 16.MAY.2021 12:05:20

Band17-10MHz-QPSK-23780-1RB#0



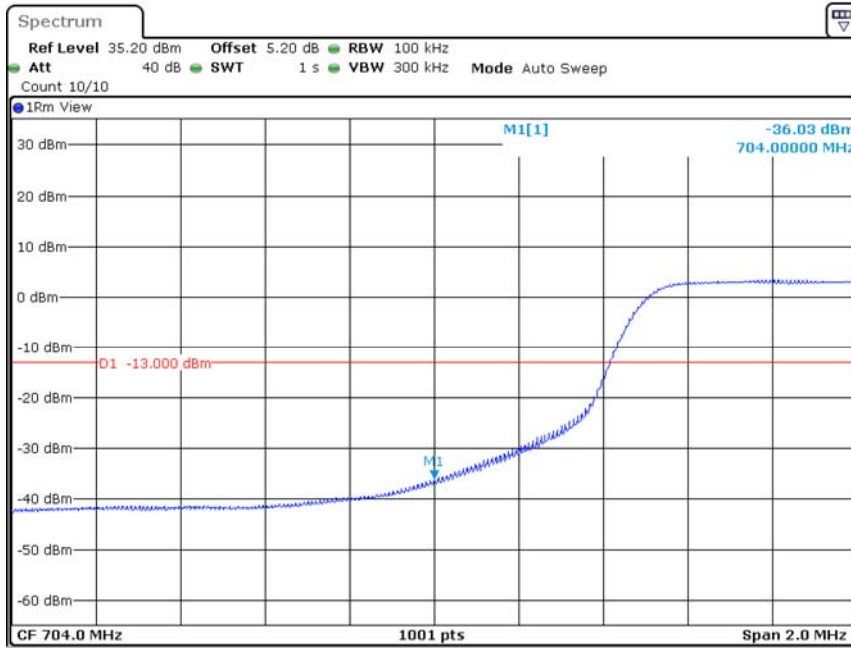
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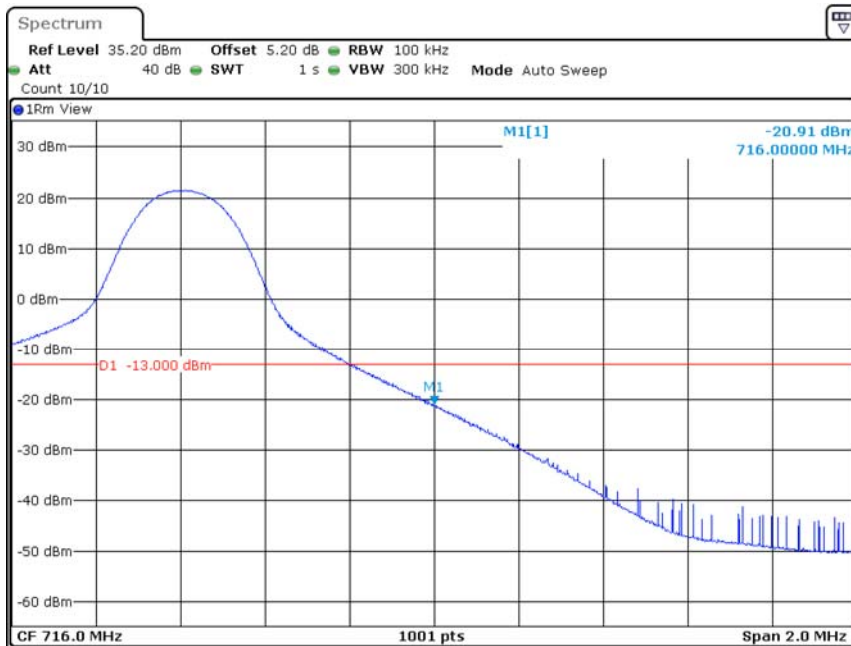
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Band17-10MHz-QPSK-23780-50RB#0



Date: 16.MAY.2021 12:06:48

Band17-10MHz-QPSK-23800-1RB#49



Date: 16.MAY.2021 12:07:33



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Band17-10MHz-QPSK-23800-50RB#0



Date: 16 MAY 2021 12:08:14



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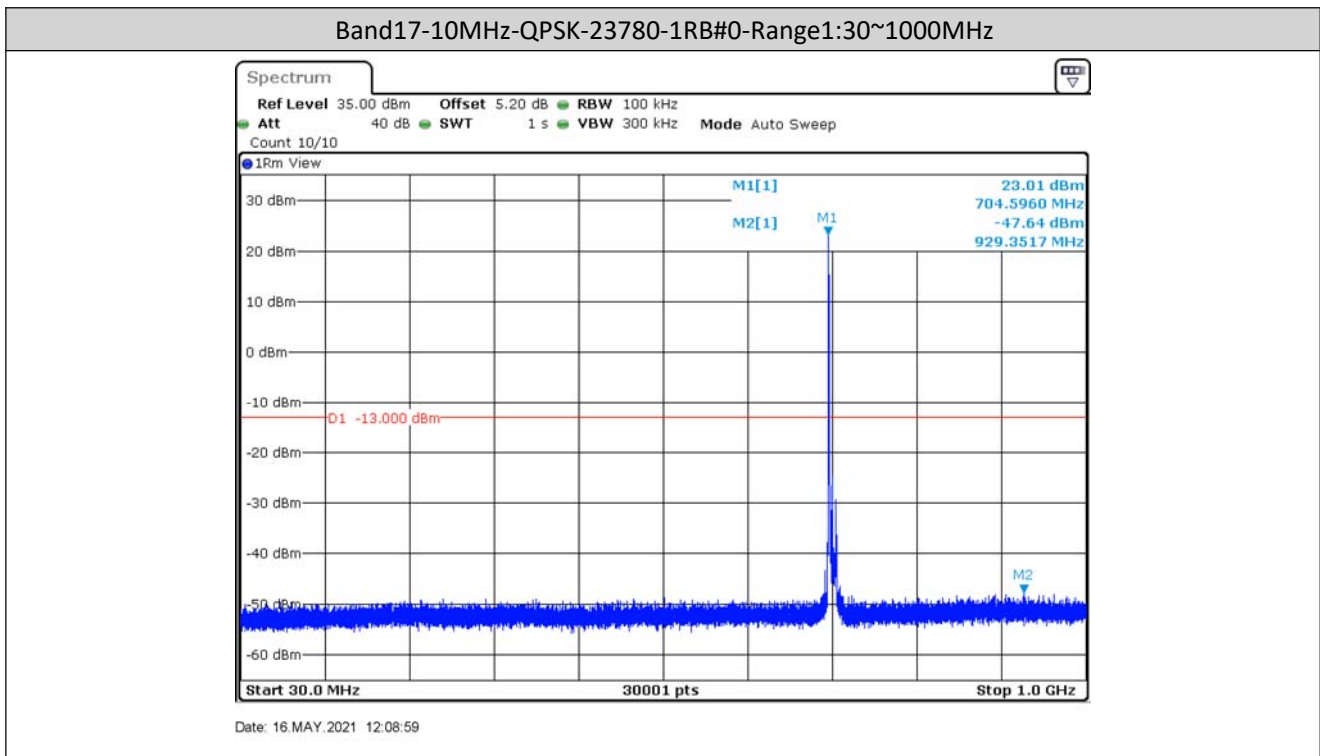
6. Spurious Emission at Antenna Terminal

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

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

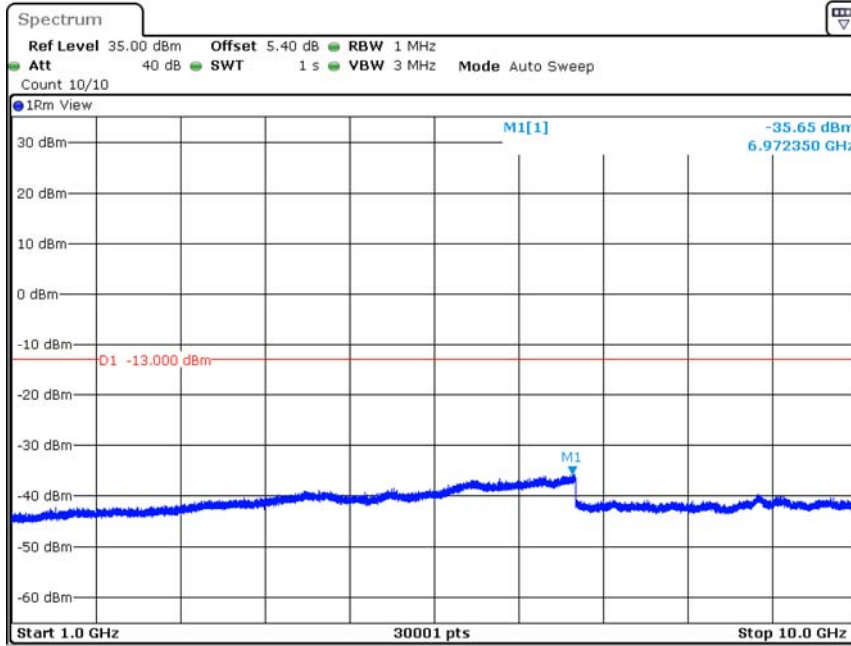
6.1. Test Plots



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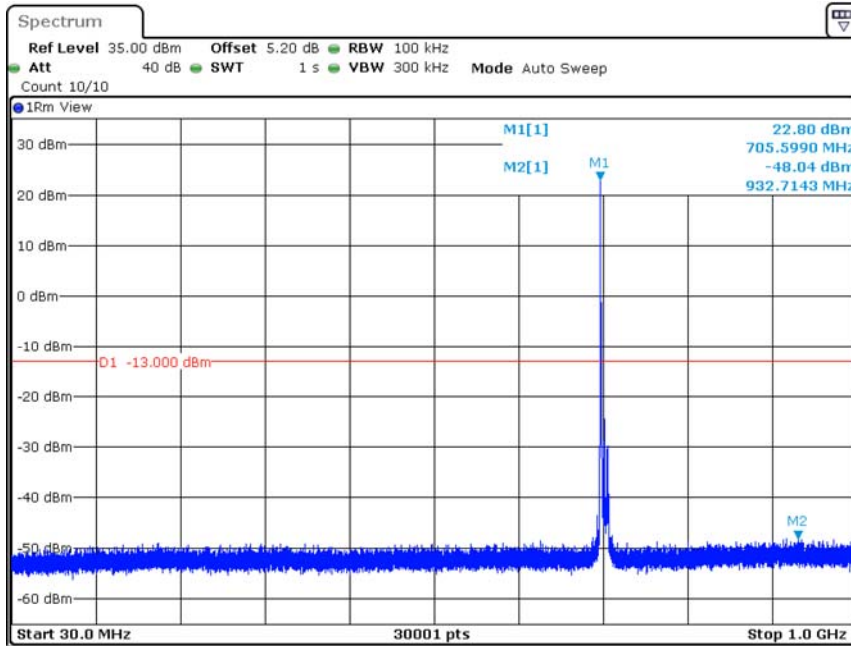
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Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 16.MAY.2021 12:09:14

Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 16.MAY.2021 12:10:09



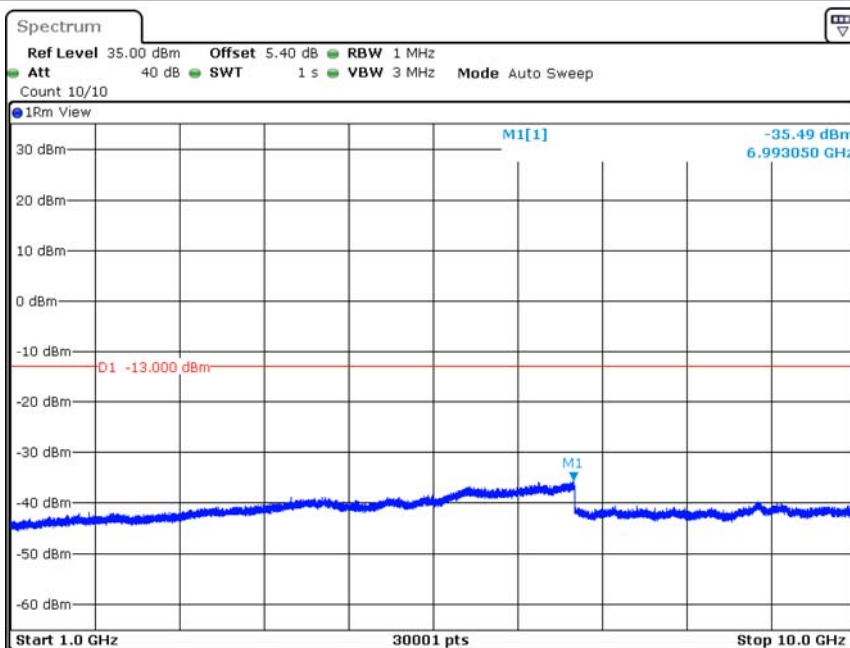
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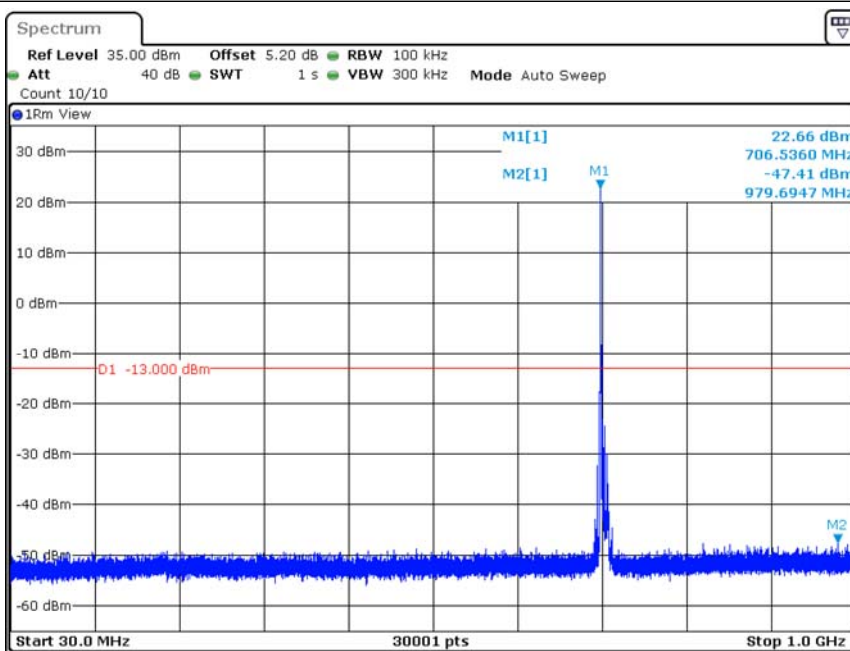
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 16.MAY.2021 12:10:25

Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz

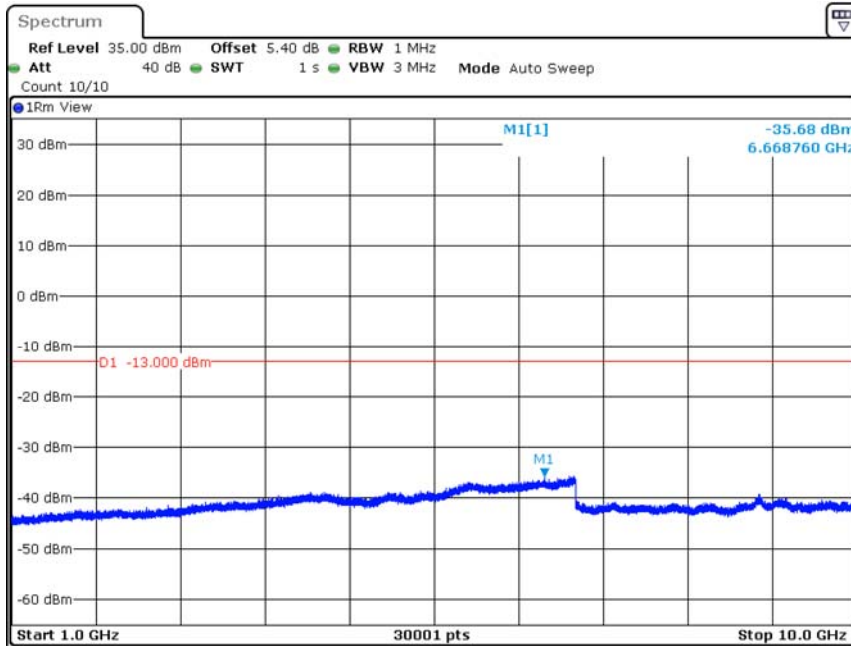


Date: 16.MAY.2021 12:11:20



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Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Band =Band 17

7.1.1. Test Channel = Low Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.2205	41.08	-47.98	-13.00	34.98	Horizontal
2	2142.1571	28.59	-58.72	-13.00	45.72	Horizontal
3	3193.7097	29.64	-53.19	-13.00	40.19	Horizontal
4	6947.1974	28.77	-42.58	-13.00	29.58	Horizontal
5	9925.0463	46.35	-51.69	-13.00	38.69	Horizontal
6	17894.944	46.83	-46.56	-13.00	33.56	Horizontal



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7.2. Test Band = Band 17

7.2.1. Test Channel = Low Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	40.65	-48.42	-13.00	35.42	Vertical
2	2343.7672	32.69	-53.96	-13.00	40.96	Vertical
3	3751.1376	28.39	-52.90	-13.00	39.90	Vertical
4	6957.0979	28.65	-42.74	-13.00	29.74	Vertical
5	13370.968	44.96	-47.91	-13.00	34.91	Vertical
6	17982.949	46.92	-47.28	-13.00	34.28	Vertical



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7.3. Test Band = Band 17

7.3.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.3206	41.12	-47.94	-13.00	34.94	Horizontal
2	1718.8359	31.76	-57.26	-13.00	44.26	Horizontal
3	3021.5011	29.55	-53.51	-13.00	40.51	Horizontal
4	4959.2980	28.12	-46.73	-13.00	33.73	Horizontal
5	10701.685	46.46	-50.80	-13.00	37.80	Horizontal
6	17989.549	47.60	-46.65	-13.00	33.65	Horizontal



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7.4. Test Band = Band 17

7.4.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.2203	41.03	-48.04	-13.00	35.04	Vertical
2	1718.8359	36.36	-52.66	-13.00	39.66	Vertical
3	5517.9259	28.56	-45.64	-13.00	32.64	Vertical
4	6951.6976	28.54	-42.76	-13.00	29.76	Vertical
5	11772.0386	45.75	-49.47	-13.00	36.47	Vertical
6	17995.049	47.34	-46.95	-13.00	33.95	Vertical



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7.5. Test Band = Band 17

7.5.1. Test Channel = High Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1207	40.11	-48.94	-13.00	35.94	Horizontal
2	1718.8359	31.08	-57.94	-13.00	44.94	Horizontal
3	5110.8055	29.29	-46.06	-13.00	33.06	Horizontal
4	6959.1980	29.20	-42.22	-13.00	29.22	Horizontal
5	11231.3616	46.71	-49.30	-13.00	36.30	Horizontal
6	17953.247	47.08	-46.92	-13.00	33.92	Horizontal



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7.6. Test Band = Band 17

7.6.1. Test Channel = High Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1207	41.07	-47.98	-13.00	34.98	Vertical
2	1718.8359	36.08	-52.94	-13.00	39.94	Vertical
3	3075.5038	29.54	-53.71	-13.00	40.71	Vertical
4	6941.1971	28.97	-42.54	-13.00	29.54	Vertical
5	11178.5589	46.51	-49.30	-13.00	36.30	Vertical
6	17797.589	48.16	-46.57	-13.00	33.57	Vertical

Remark:

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



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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
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-3.10	-0.004372	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	1.90	0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	5.70	0.008028	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-1.90	-0.002676	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	4.90	0.006892	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	8.20	0.011533	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	2.70	0.003797	±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
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	1.70	0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	2.70	0.003808	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	1.90	0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-3.60	-0.005078	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	1.30	0.001834	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.80	-0.002535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	5.00	0.007042	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.80	0.001127	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	3.50	0.004930	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	2.70	0.003803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.80	-0.002535	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	3.90	0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	6.60	0.009283	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	4.90	0.006892	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	0.50	0.000703	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	9.30	0.013080	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.60	0.003657	±2.5	PASS



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