



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	24.31	17.66	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#13	24.45	17.80	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.20	17.55	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.17	16.52	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.42	16.77	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.54	16.89	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.35	16.70	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.11	17.46	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#13	24.28	17.63	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.97	17.32	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.01	16.36	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.07	16.42	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.12	16.47	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.16	16.51	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.26	17.61	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#13	24.44	17.79	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.26	17.61	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.27	16.62	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.18	16.53	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.10	16.45	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.09	16.44	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.35	15.70	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#13	22.24	15.59	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.37	15.72	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	21.28	14.63	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	21.46	14.81	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	21.39	14.74	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	21.29	14.64	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.24	15.59	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#13	22.37	15.72	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.26	15.61	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	21.32	14.67	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	21.35	14.70	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	21.48	14.83	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.42	14.77	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.38	15.73	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#13	22.30	15.65	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.31	15.66	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.30	14.65	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	21.33	14.68	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.43	14.78	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.27	14.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.78	17.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#13	23.95	17.30	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.62	16.97	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.40	15.75	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.37	15.72	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.58	15.93	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.38	15.73	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.29	16.64	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#13	23.59	16.94	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.35	16.70	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.15	15.50	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.15	15.50	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.19	15.54	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.23	15.58	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.85	16.20	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#13	23.55	16.90	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.76	17.11	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.21	15.56	34.77	PASS



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Band17	5MHz	16QAM	23825	12RB#6	22.19	15.54	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.21	15.56	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.18	15.53	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.71	18.06	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#25	24.05	17.40	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.38	17.73	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.37	16.72	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#13	23.20	16.55	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.11	16.46	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.27	16.62	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.51	17.86	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#25	24.29	17.64	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.37	17.72	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.35	16.70	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#13	23.24	16.59	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.16	16.51	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.23	16.58	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.30	17.65	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#25	24.31	17.66	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.33	17.68	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.25	16.60	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#13	23.16	16.51	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.15	16.50	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.09	16.44	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.25	15.60	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#25	22.33	15.68	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.32	15.67	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	21.32	14.67	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#13	21.42	14.77	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.34	14.69	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.37	14.72	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.31	15.66	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#25	22.35	15.70	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#49	22.27	15.62	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.39	14.74	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#13	21.39	14.74	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.24	14.59	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.30	14.65	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.26	15.61	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#25	22.27	15.62	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.34	15.69	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.35	14.70	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#13	21.35	14.70	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.33	14.68	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.33	14.68	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.54	16.89	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#25	23.48	16.83	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.29	16.64	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.23	15.58	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#13	22.12	15.47	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.14	15.49	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.27	15.62	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.64	16.99	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#25	23.53	16.88	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.62	16.97	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.34	15.69	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#13	22.17	15.52	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.92	15.27	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.39	15.74	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	24.16	17.51	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#25	23.05	16.40	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.61	16.96	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.52	15.87	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#13	22.15	15.50	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.03	15.38	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.24	15.59	34.77	PASS



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Remark:

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

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

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



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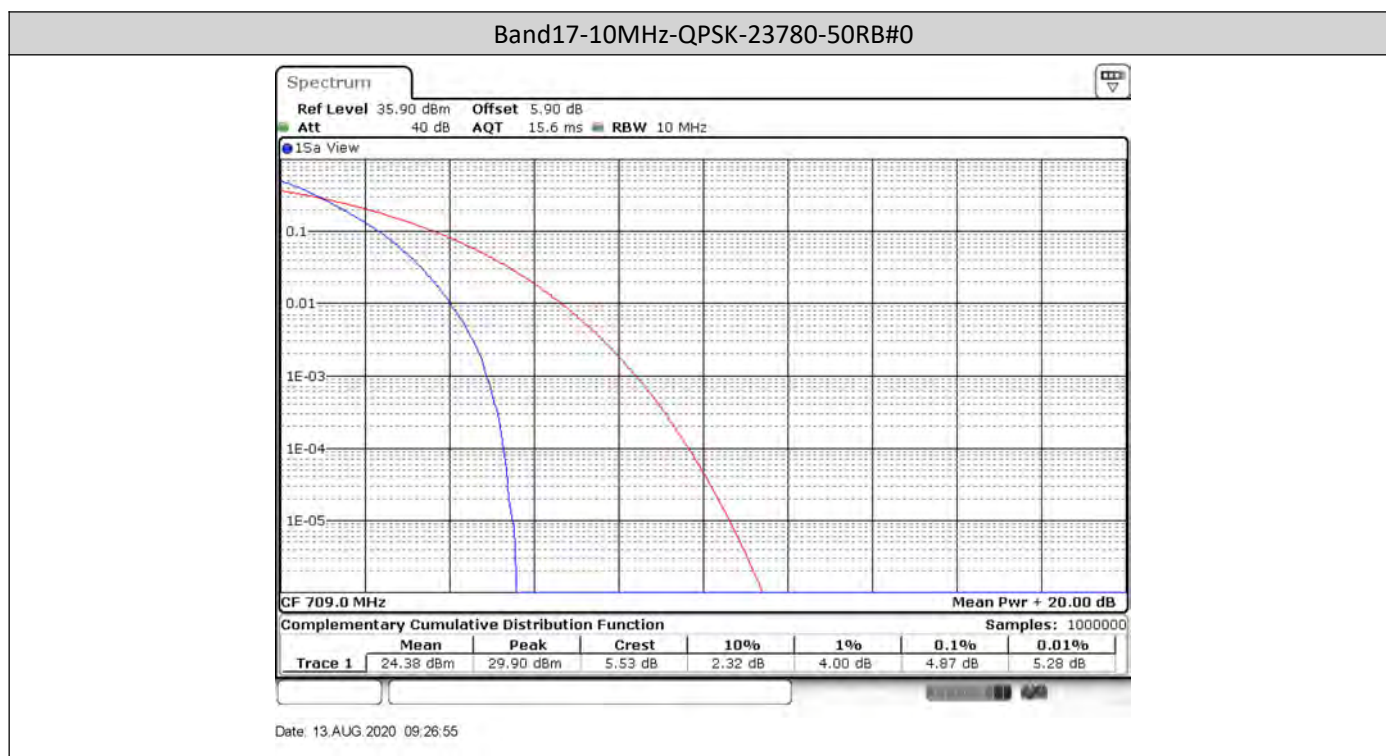


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

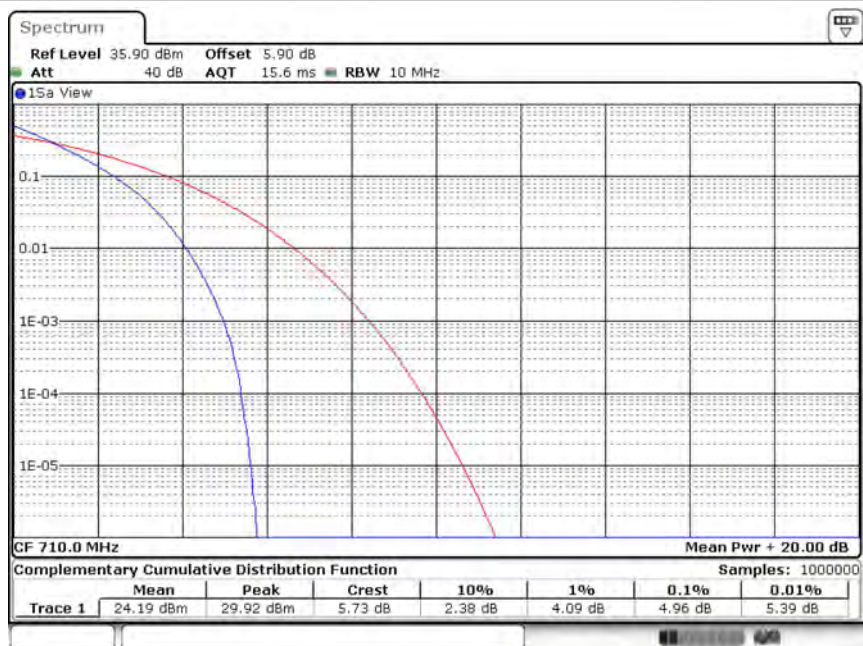
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.87	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.96	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.96	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.14	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.17	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.09	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.74	13	PASS

2.2. Test Plots



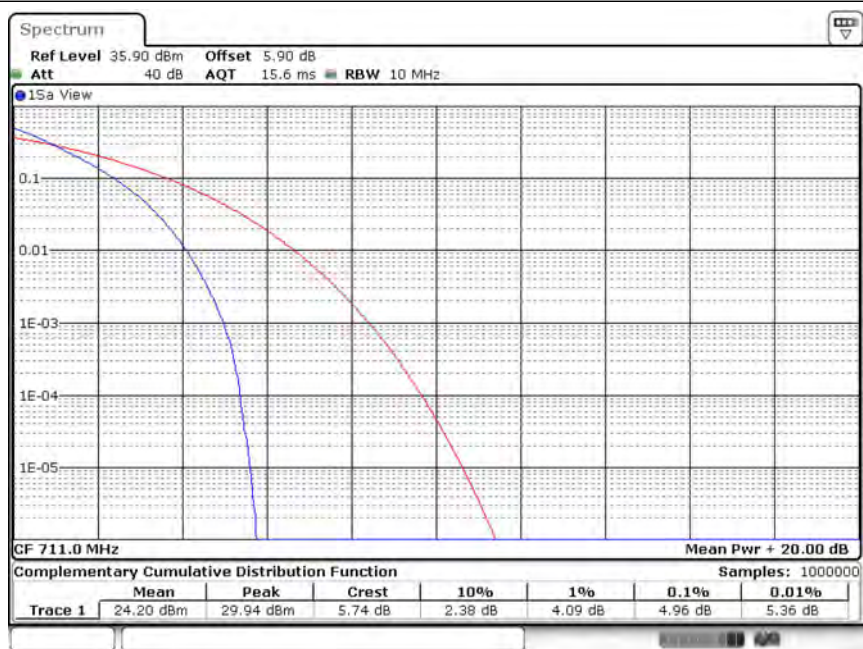


Band17-10MHz-QPSK-23790-50RB#0



Date: 13.AUG 2020 09:27:12

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



Date: 13.AUG 2020 09:27:28

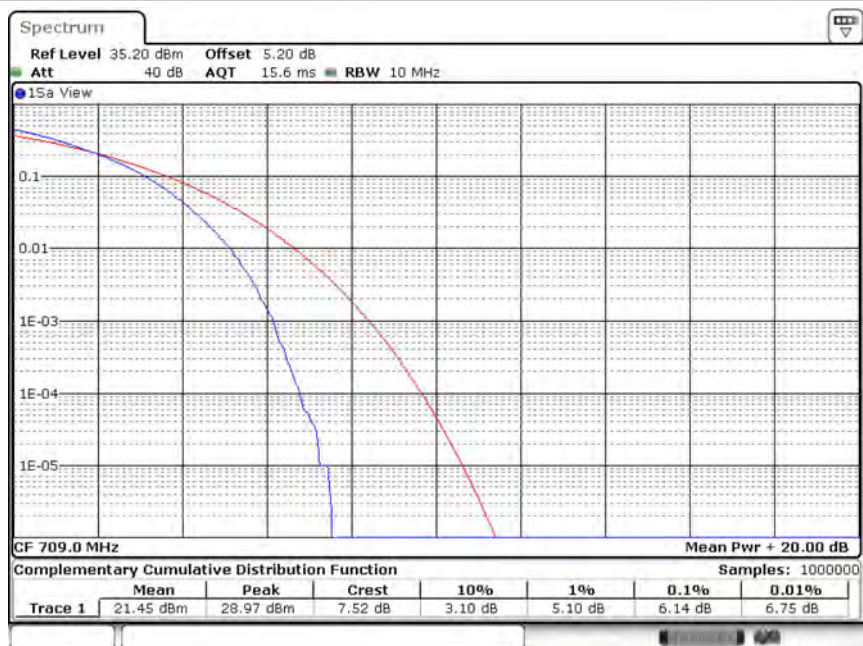


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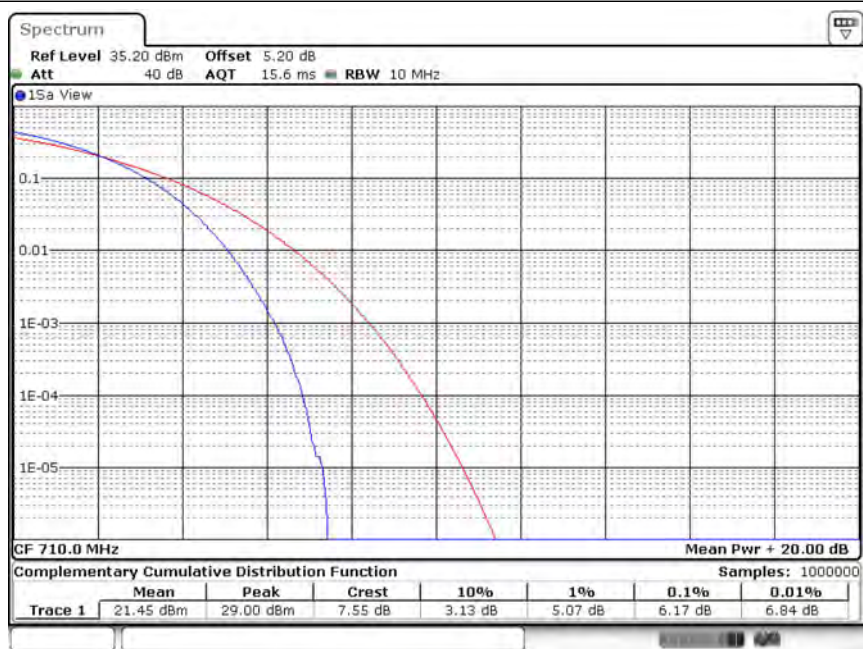


Band17-10MHz-64QAM-23780-50RB#0



Date: 19.AUG 2020 09:07:25

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



Date: 19.AUG 2020 09:07:36



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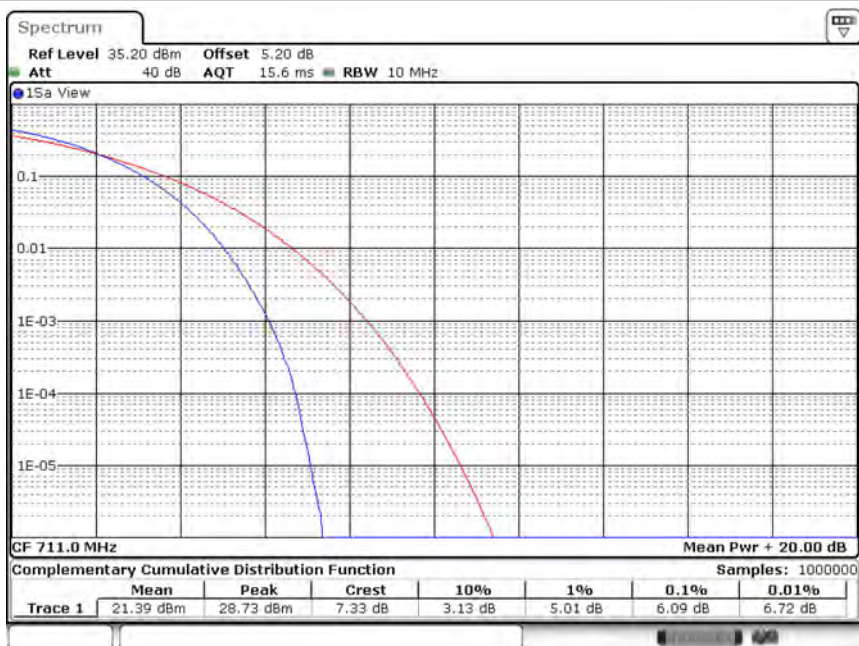
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Band17-10MHz-64QAM-23800-50RB#0



Date: 19.AUG.2020 09:07:48

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



Date: 13.AUG.2020 09:27:03



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



Date: 13.AUG.2020 09:27:20

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



Date: 13.AUG.2020 09:27:36



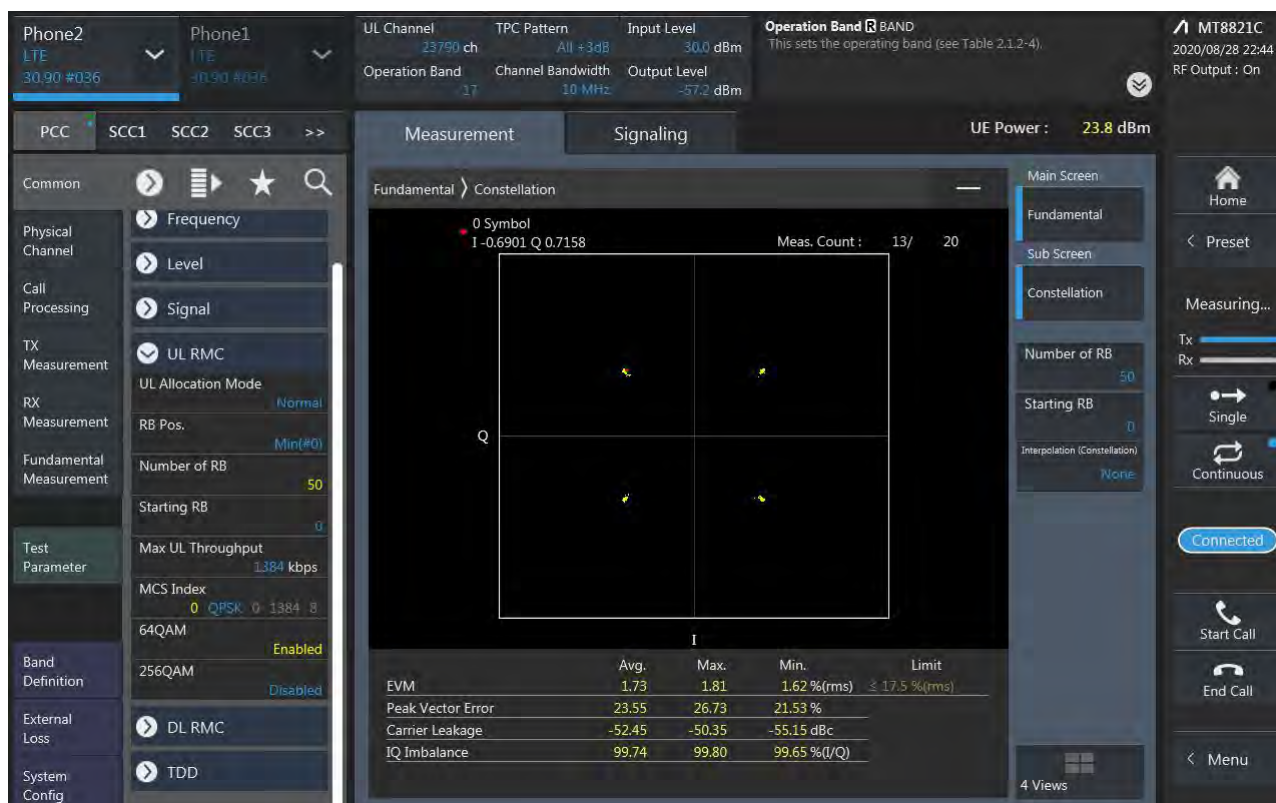
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

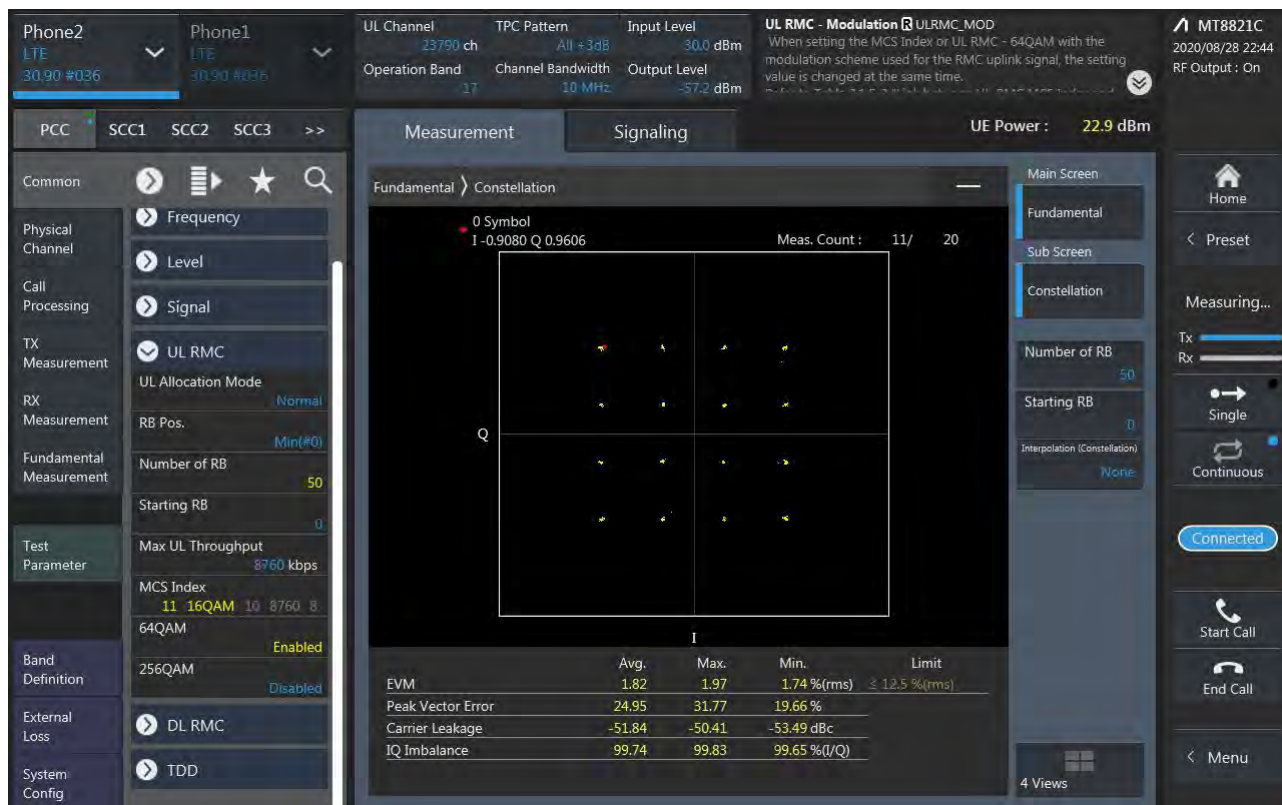
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

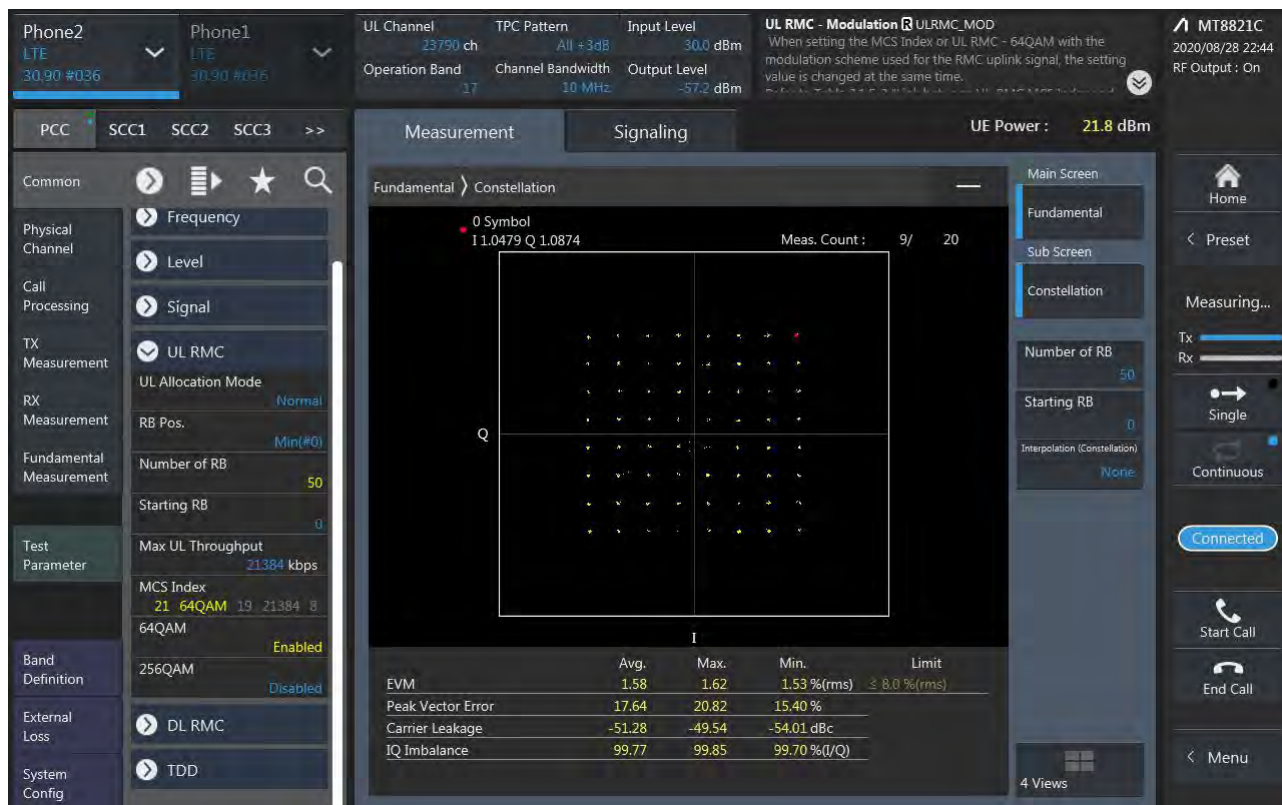
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

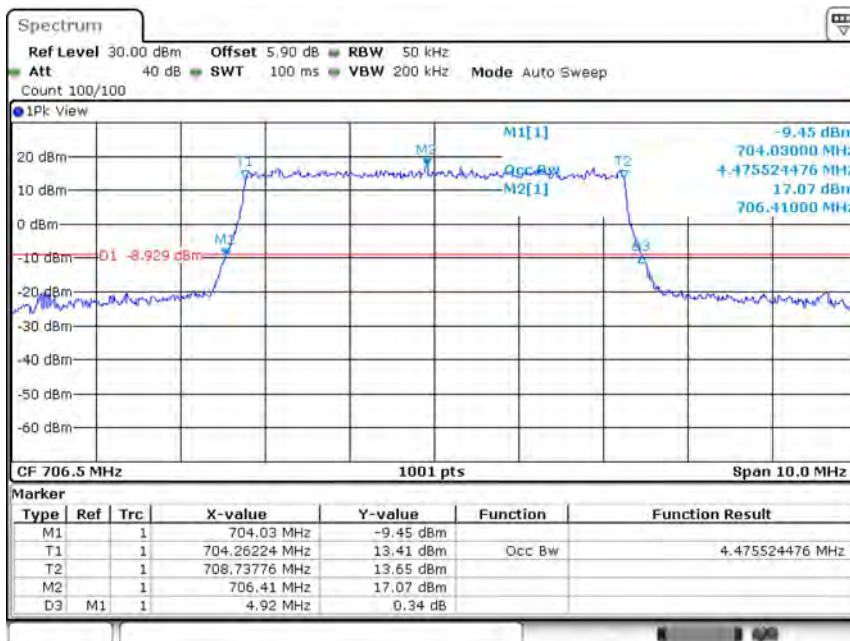
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.920	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.940	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.930	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.910	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.466	4.890	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.496	4.950	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.496	4.960	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.960	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.780	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.951	9.740	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.780	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.931	9.720	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.931	9.700	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.660	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.931	9.760	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.951	9.780	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.951	9.760	PASS





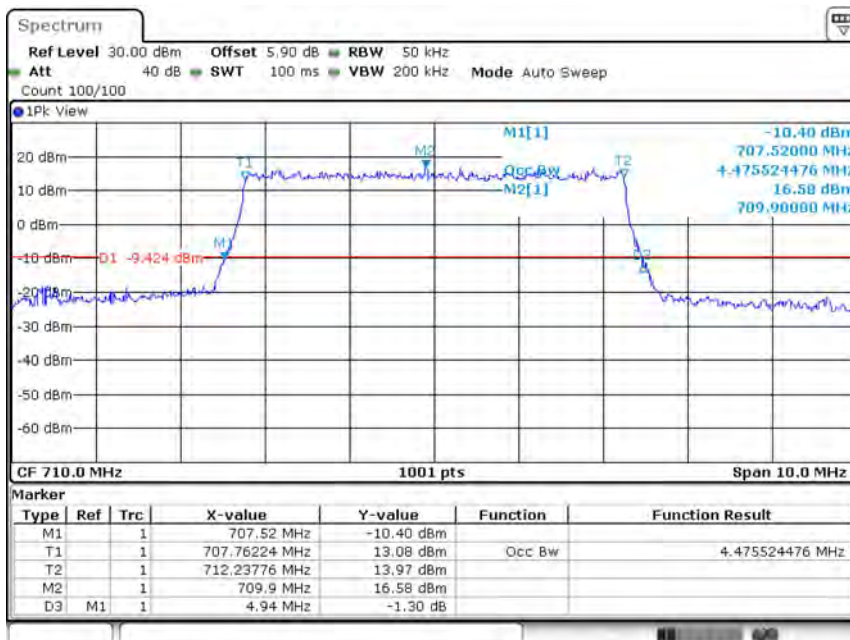
4.2. Test Plots

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



Date: 13.AUG 2020 09:11:08

Band17-5MHz-QPSK-23790-25RB#0-4.476



Date: 13.AUG 2020 09:11:41



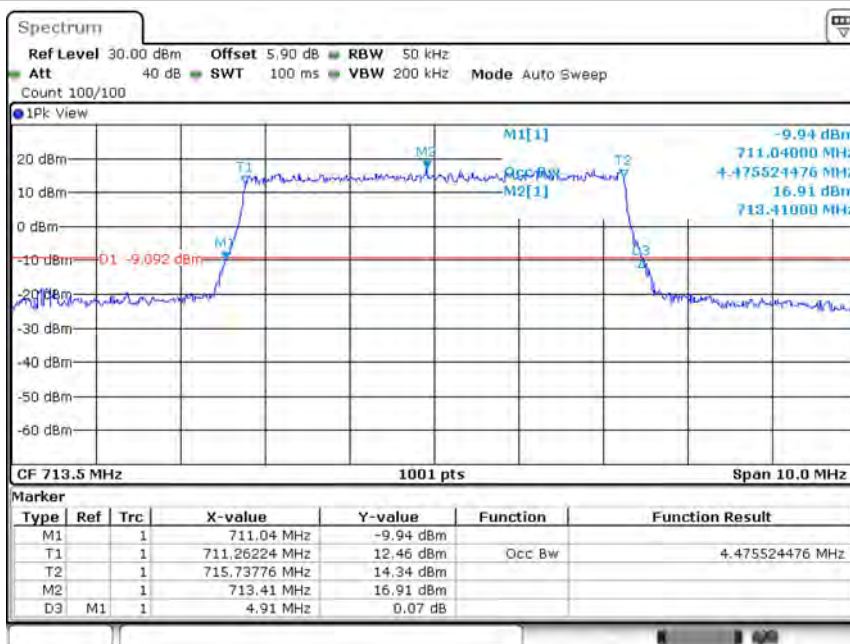
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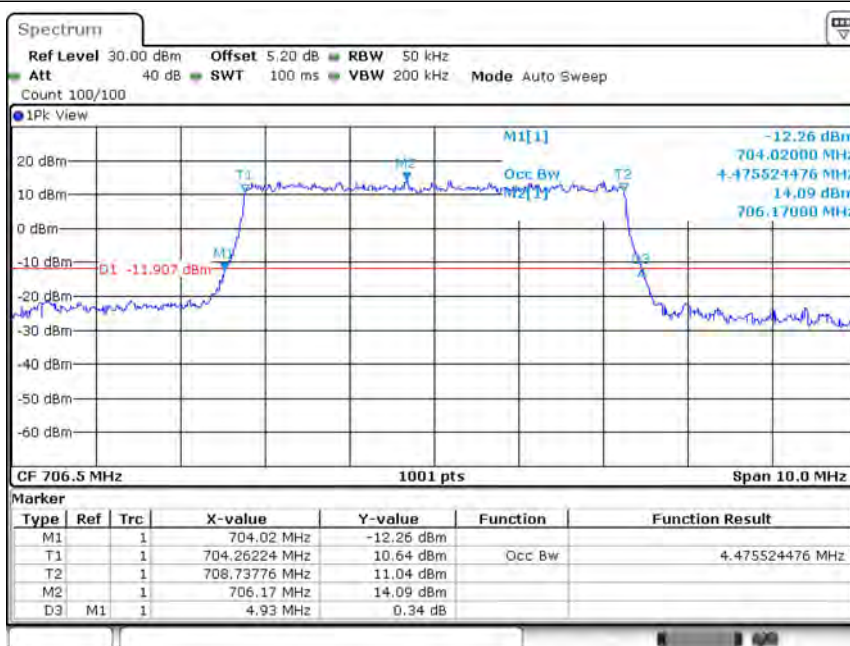


Band17-5MHz-QPSK-23825-25RB#0-4.476



Date: 13.AUG.2020 09:12:17

Band17-5MHz-64QAM-23755-25RB#0-4.476

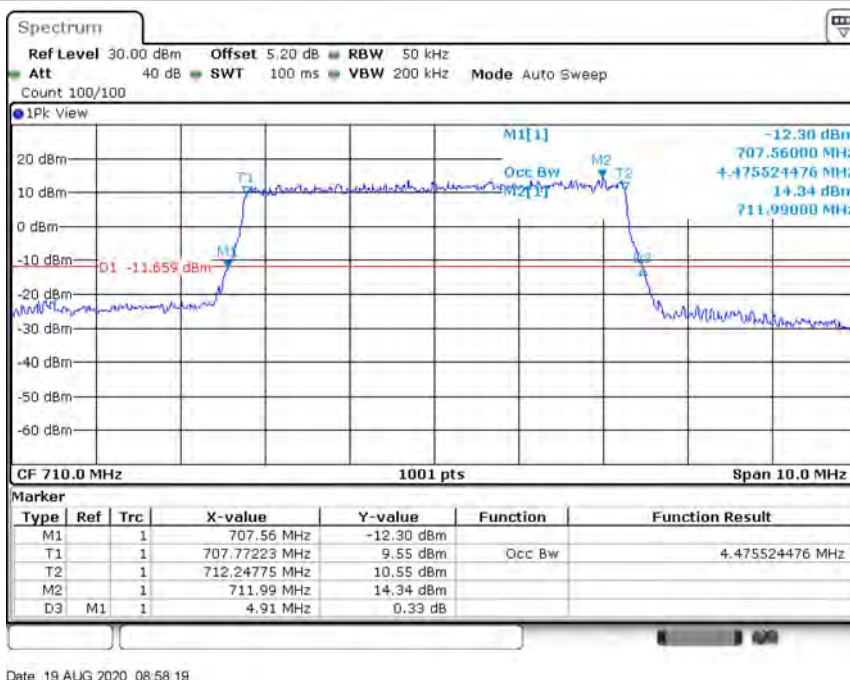


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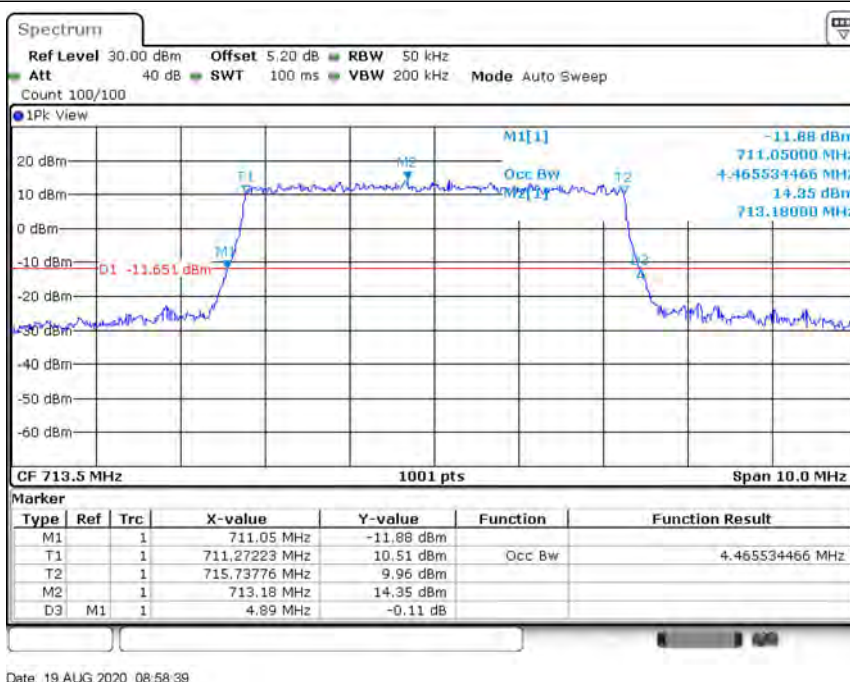




Band17-5MHz-64QAM-23790-25RB#0-4.476

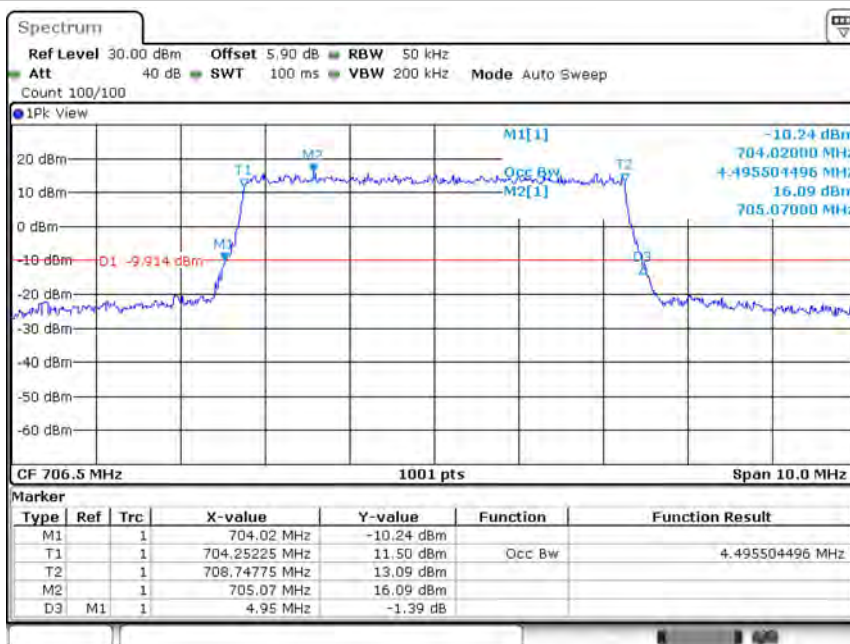


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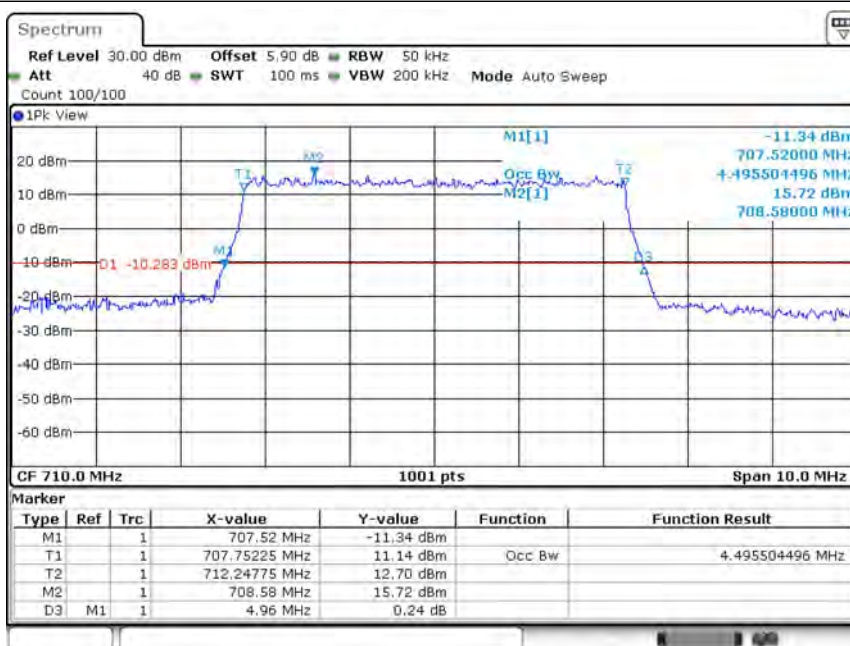




Band17-5MHz-16QAM-23755-25RB#0-4.496

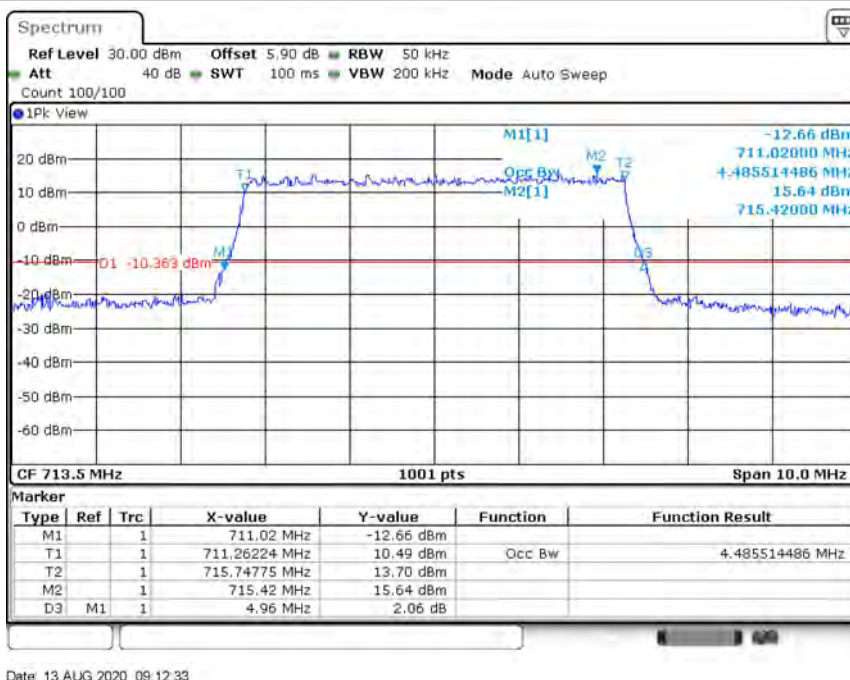


Band17-5MHz-16QAM-23790-25RB#0-4.496

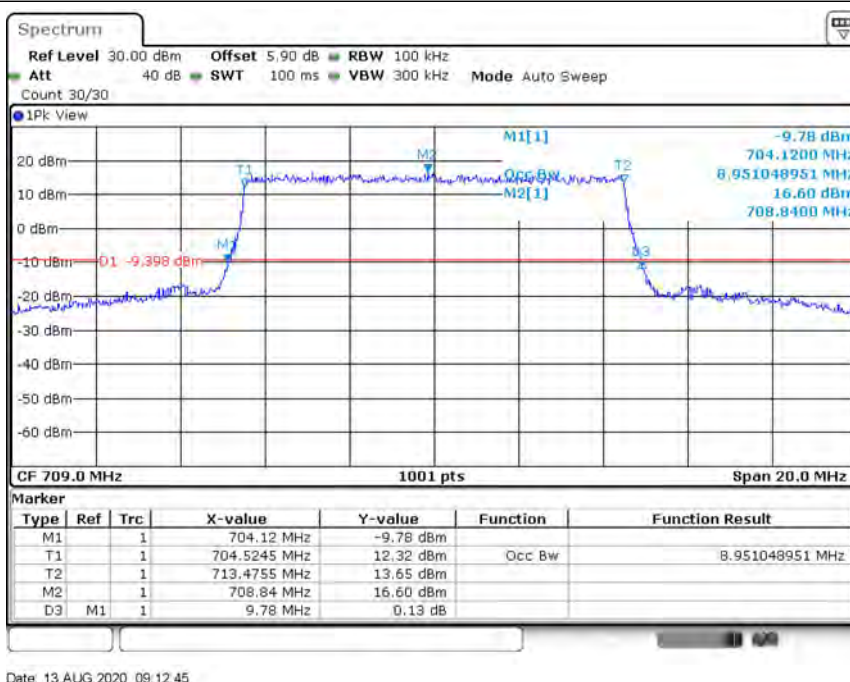




Band17-5MHz-16QAM-23825-25RB#0-4.486



Band17-10MHz-QPSK-23780-50RB#0-8.951

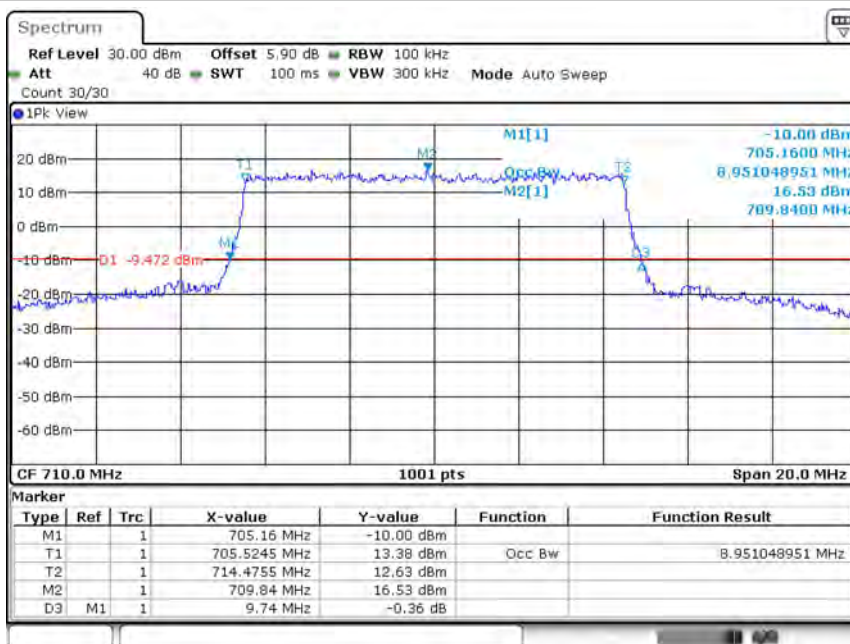


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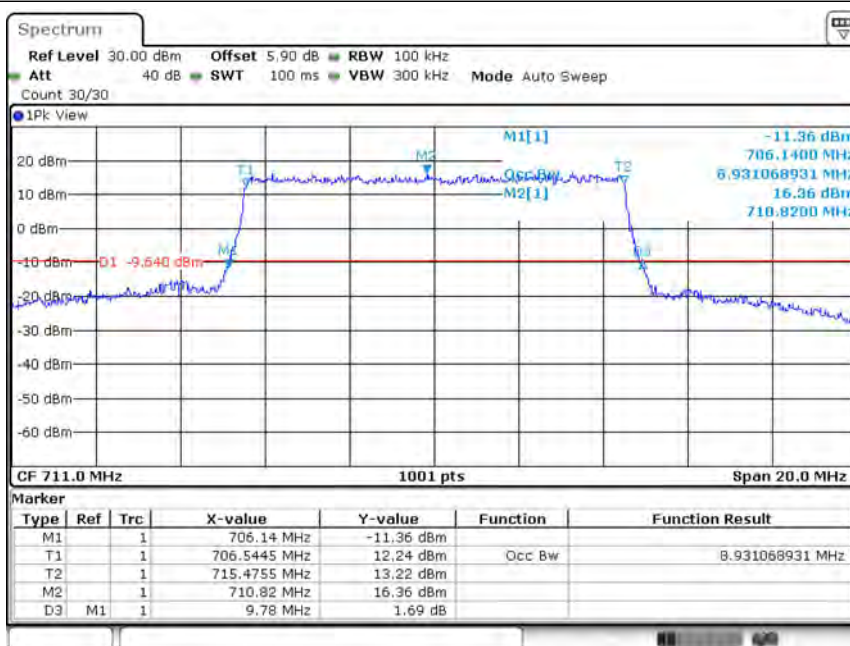


Band17-10MHz-QPSK-23790-50RB#0-8.951



Date: 13.AUG.2020 09:13:08

Band17-10MHz-QPSK-23800-50RB#0-8.931



Date: 13.AUG.2020 09:13:30

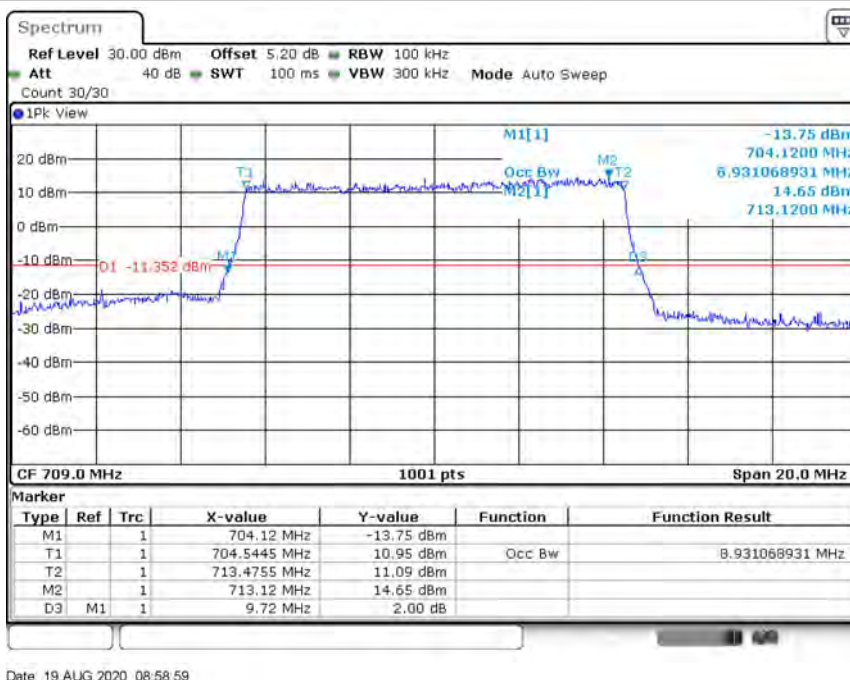


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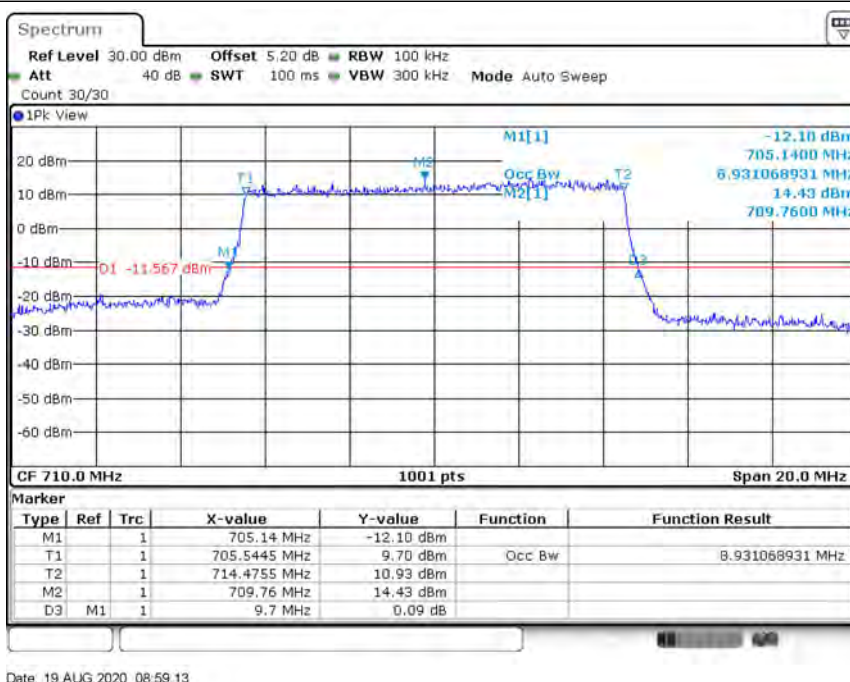
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Band17-10MHz-64QAM-23780-50RB#0-8.931



Band17-10MHz-64QAM-23790-50RB#0-8.931

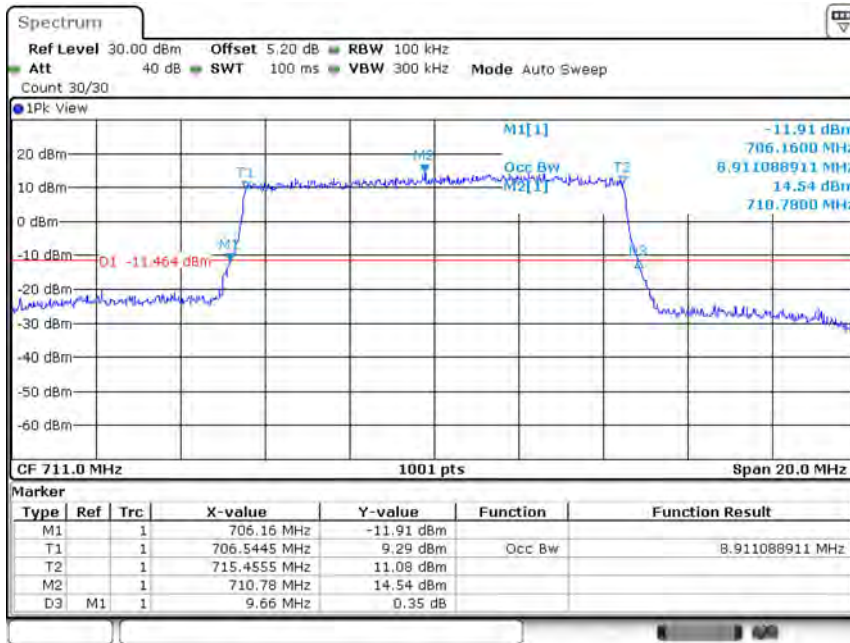


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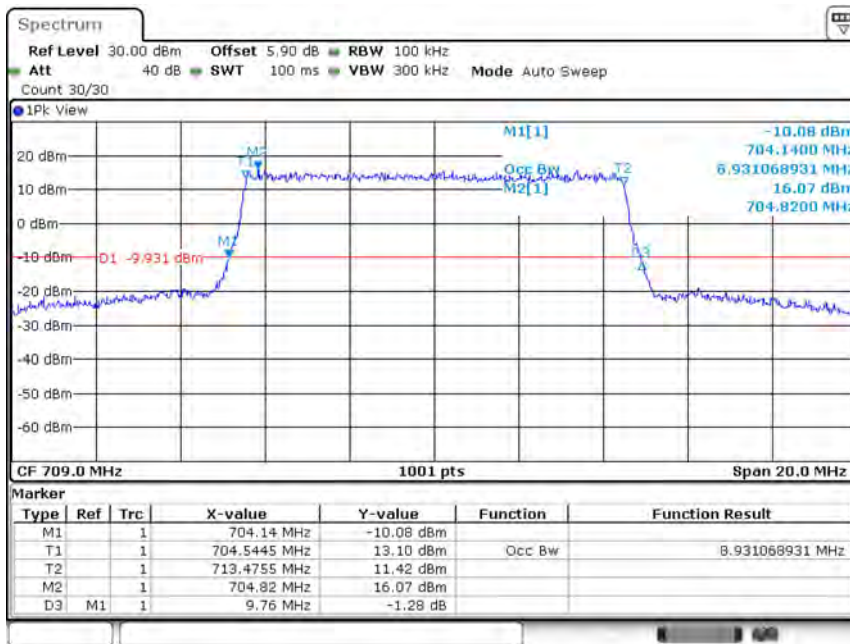
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Band17-10MHz-64QAM-23800-50RB#0-8.911



Band17-10MHz-16QAM-23780-50RB#0-8.931

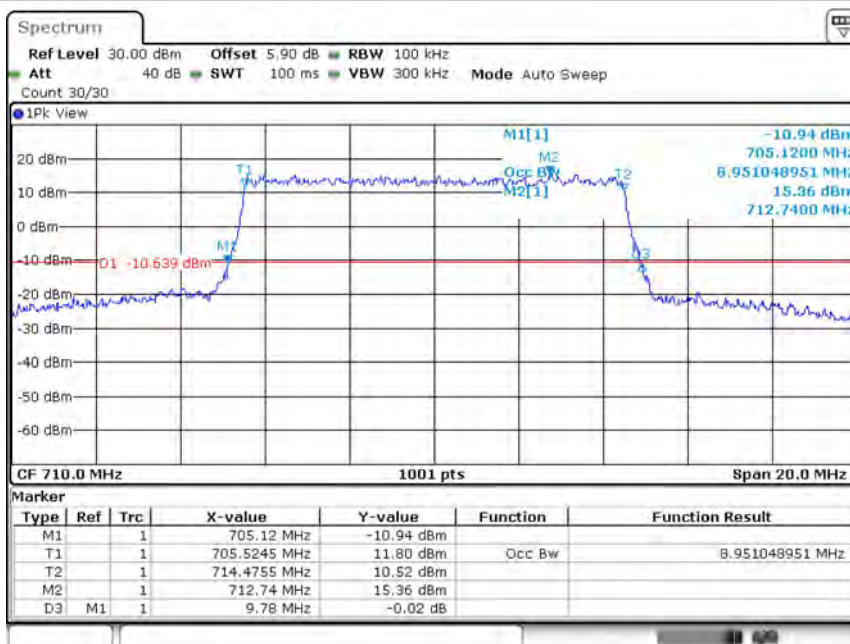


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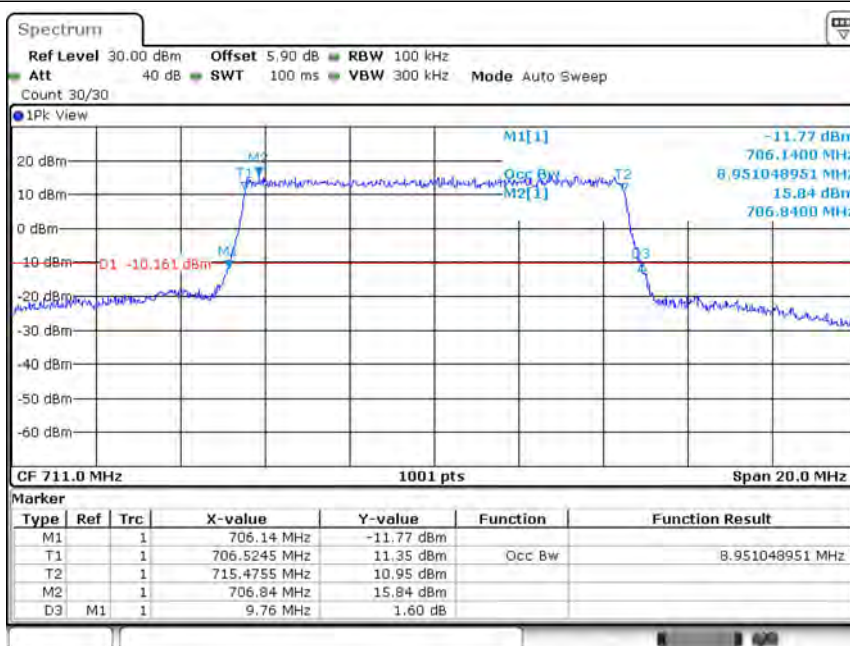


Band17-10MHz-16QAM-23790-50RB#0-8.951



Date: 13.AUG.2020 09:13:21

Band17-10MHz-16QAM-23800-50RB#0-8.951



Date: 13.AUG.2020 09:13:40



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5. Band Edge Compliance

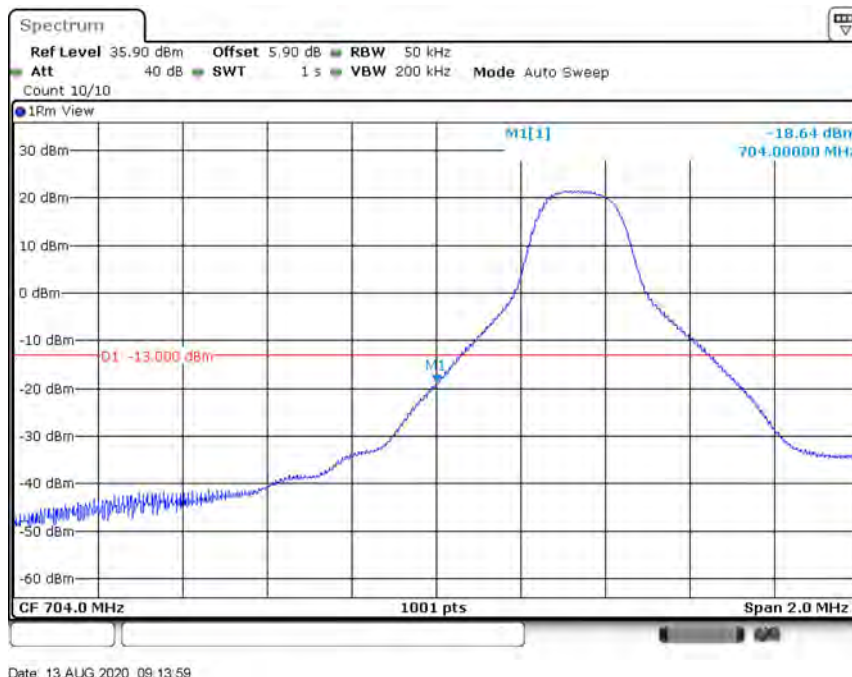
5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-18.64	PASS
Band17	5MHz	QPSK	23755	25RB#0	-25.64	PASS
Band17	5MHz	QPSK	23825	1RB#24	-19.73	PASS
Band17	5MHz	QPSK	23825	25RB#0	-26.49	PASS
Band17	5MHz	64QAM	23755	1RB#0	-21.61	PASS
Band17	5MHz	64QAM	23755	25RB#0	-27.98	PASS
Band17	5MHz	64QAM	23825	1RB#24	-21.53	PASS
Band17	5MHz	64QAM	23825	25RB#0	-30.27	PASS
Band17	5MHz	16QAM	23755	1RB#0	-19.12	PASS
Band17	5MHz	16QAM	23755	25RB#0	-26.57	PASS
Band17	5MHz	16QAM	23825	1RB#24	-20.00	PASS
Band17	5MHz	16QAM	23825	25RB#0	-27.24	PASS
Band17	10MHz	QPSK	23780	1RB#0	-28.11	PASS
Band17	10MHz	QPSK	23780	50RB#0	-26.39	PASS
Band17	10MHz	QPSK	23800	1RB#49	-29.13	PASS
Band17	10MHz	QPSK	23800	50RB#0	-26.96	PASS
Band17	10MHz	64QAM	23780	1RB#0	-30.18	PASS
Band17	10MHz	64QAM	23780	50RB#0	-29.25	PASS
Band17	10MHz	64QAM	23800	1RB#49	-32.39	PASS
Band17	10MHz	64QAM	23800	50RB#0	-32.51	PASS
Band17	10MHz	16QAM	23780	1RB#0	-27.73	PASS
Band17	10MHz	16QAM	23780	50RB#0	-28.11	PASS
Band17	10MHz	16QAM	23800	1RB#49	-30.33	PASS
Band17	10MHz	16QAM	23800	50RB#0	-29.19	PASS



5.2. Test Plots

Band17-5MHz-QPSK-23755-1RB#0



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





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



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



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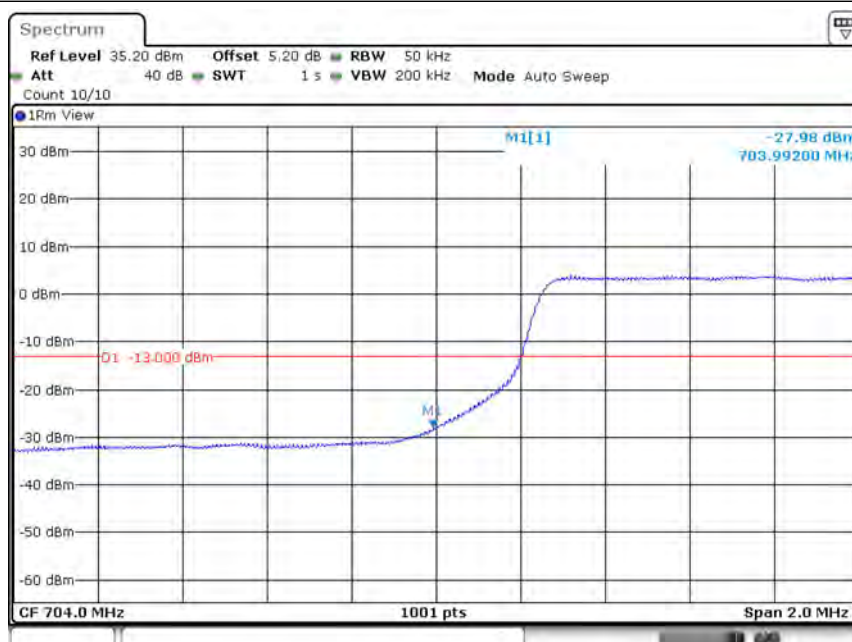


Band17-5MHz-64QAM-23755-1RB#0



Date: 19.AUG 2020 08:59:53

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



Date: 19.AUG 2020 09:00:14



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Band17-5MHz-64QAM-23825-1RB#24



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

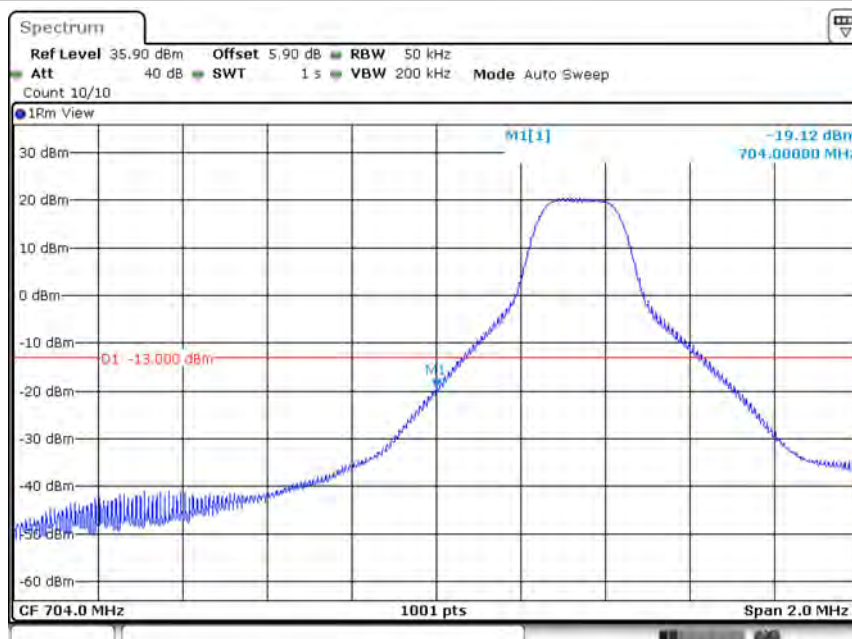


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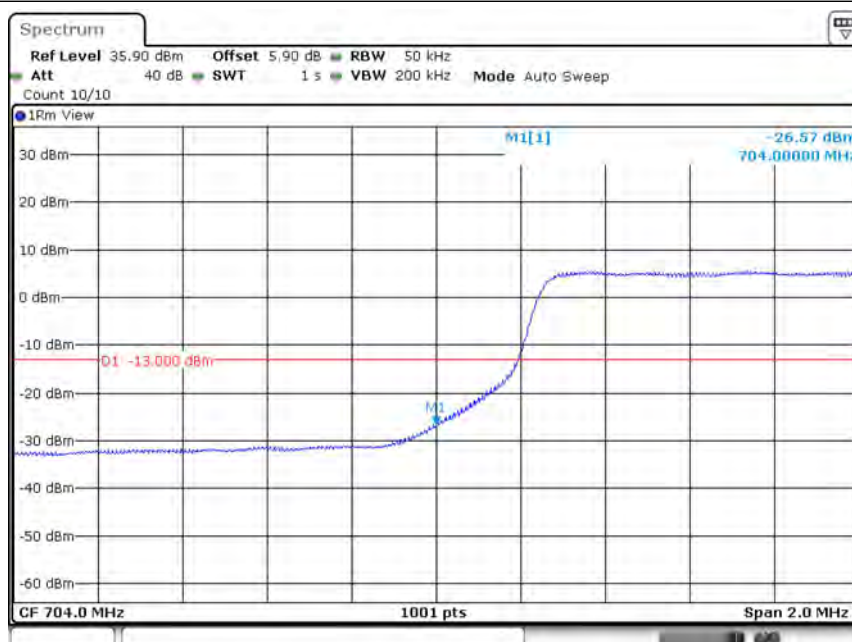


Band17-5MHz-16QAM-23755-1RB#0



Date: 13.AUG.2020 09:14:16

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



Date: 13.AUG.2020 09:14:51



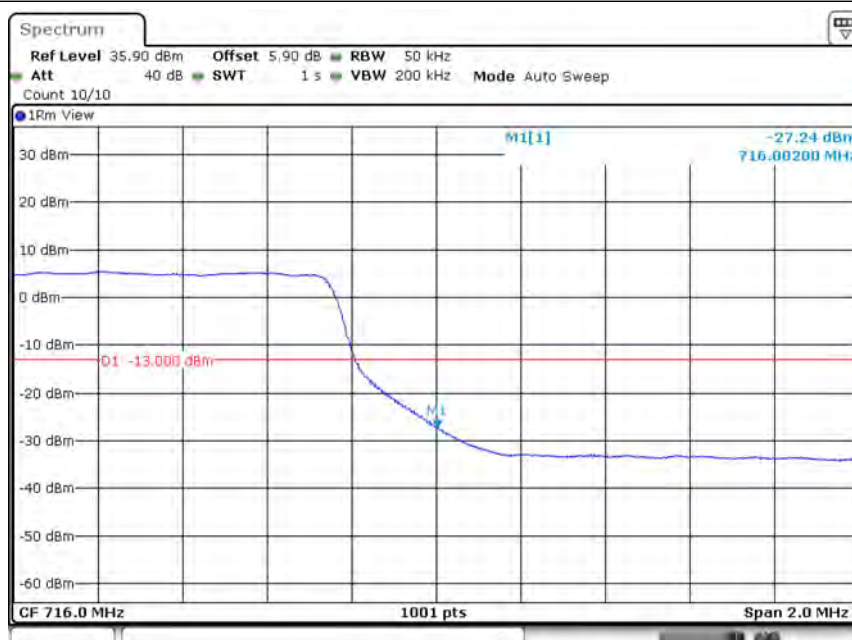


Band17-5MHz-16QAM-23825-1RB#24



Date: 13.AUG.2020 09:15:27

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



Date: 13.AUG.2020 09:16:01

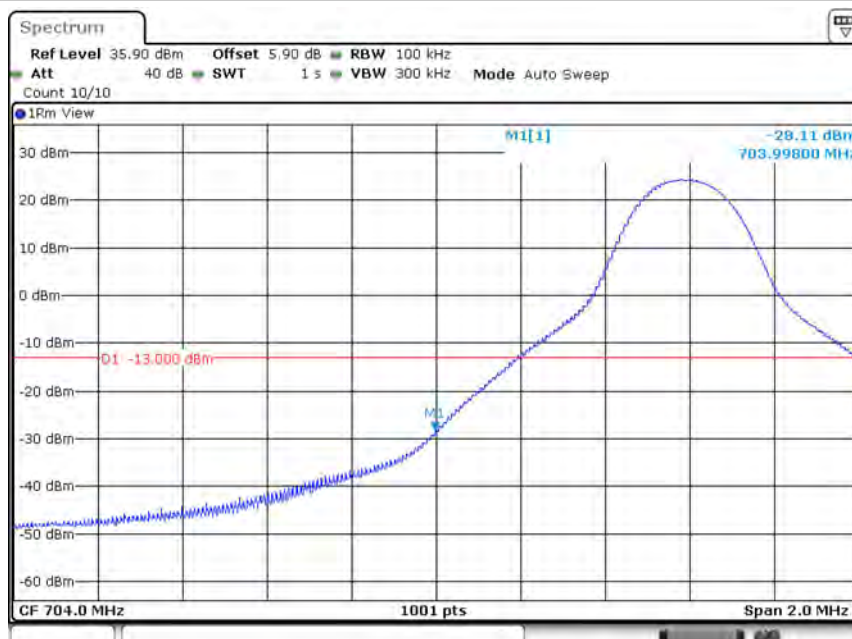


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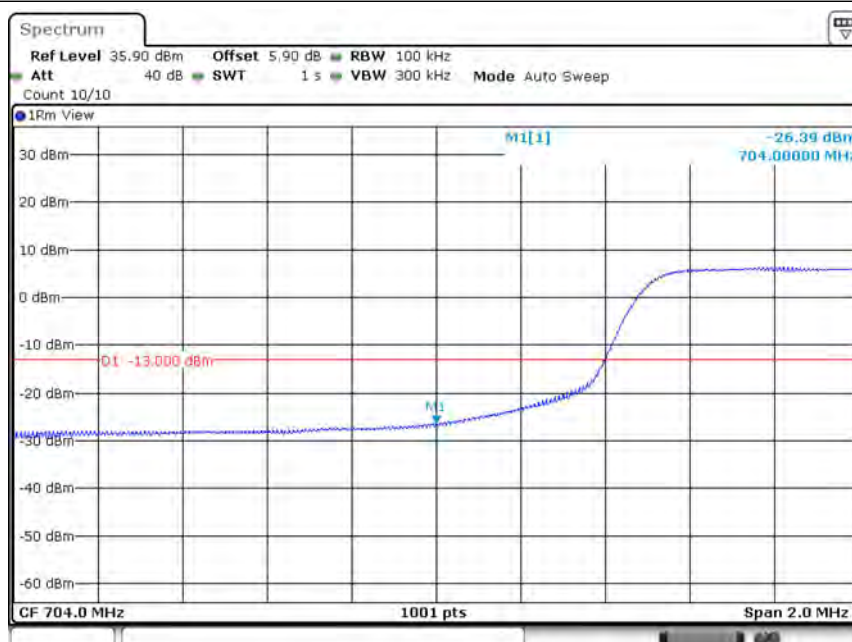


Band17-10MHz-QPSK-23780-1RB#0



Date: 13.AUG.2020 09:16:21

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



Date: 13.AUG.2020 09:16:55





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



Date: 13.AUG.2020 09:17:31

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



Date: 13.AUG.2020 09:18:06



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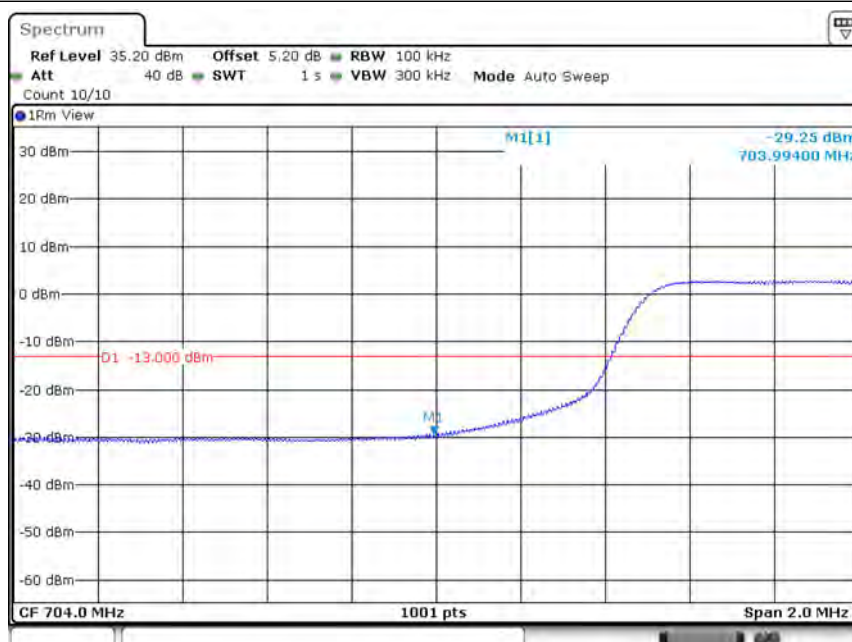


Band17-10MHz-64QAM-23780-1RB#0



Date: 19.AUG 2020 09:01:29

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



Date: 19.AUG 2020 09:01:49



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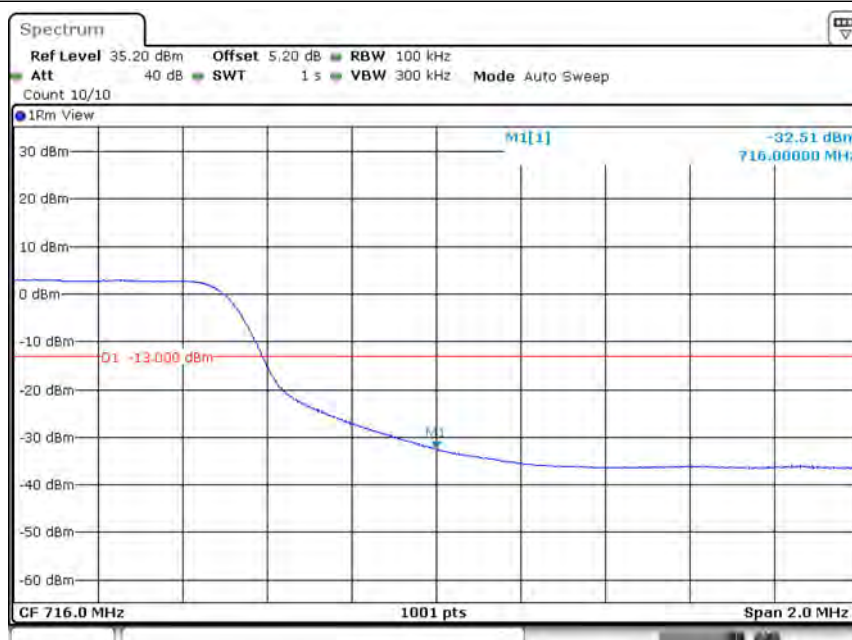


Band17-10MHz-64QAM-23800-1RB#49



Date: 19.AUG 2020 09:02:15

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



Date: 19.AUG 2020 09:02:36



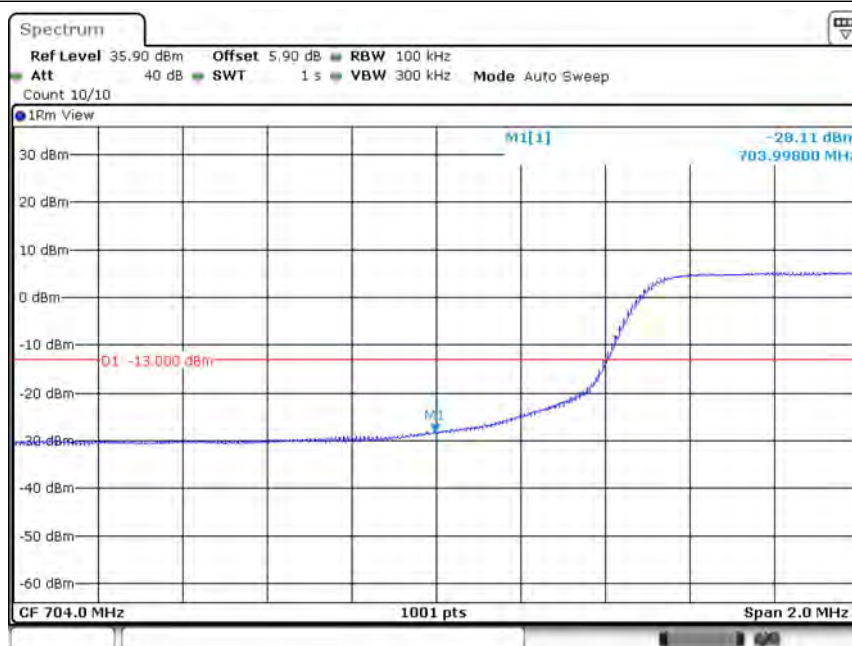


Band17-10MHz-16QAM-23780-1RB#0



Date: 13.AUG.2020 09:16:38

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



Date: 13.AUG.2020 09:17:12



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Band17-10MHz-16QAM-23800-1RB#49



Date: 13 AUG 2020 09:17:48

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



Date: 13 AUG 2020 09:18:23



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Shenzhen Branch (Shenzhen) CMAA Laboratory

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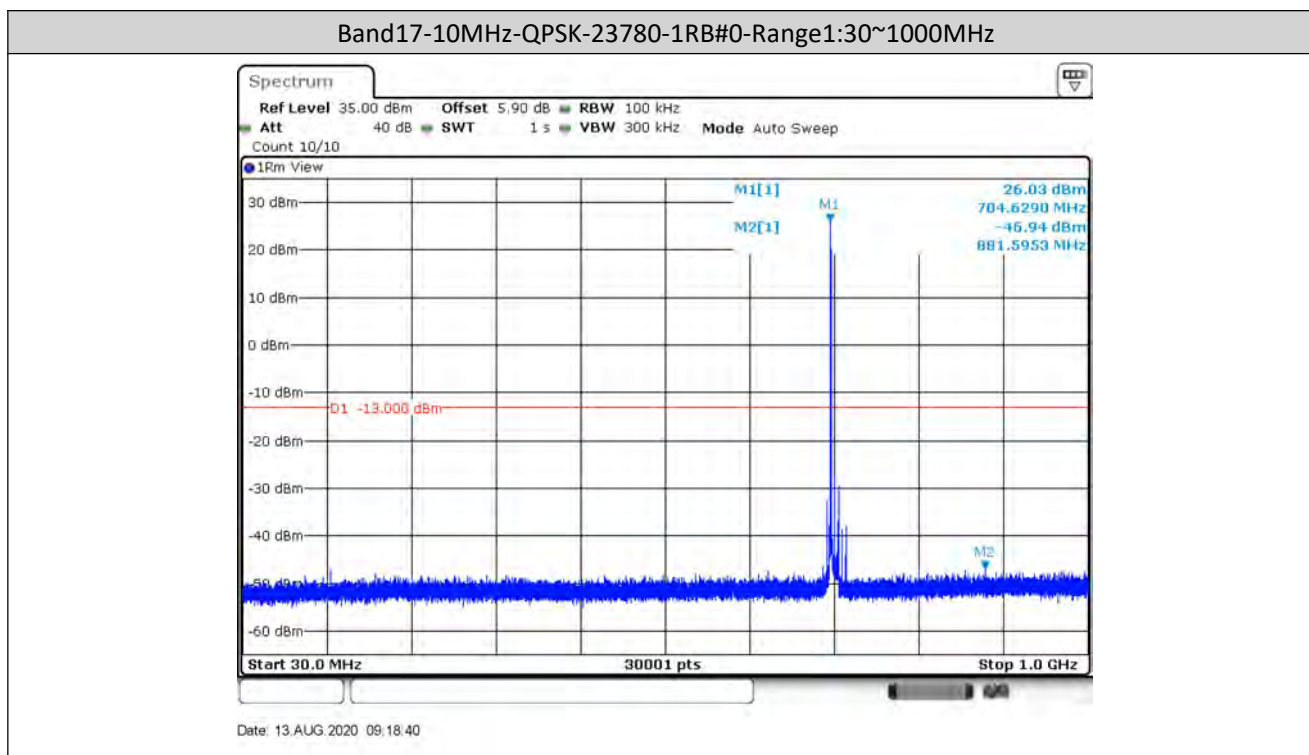
Member of the SGS Group (SGS SA)

6. Spurious Emission at Antenna Terminal

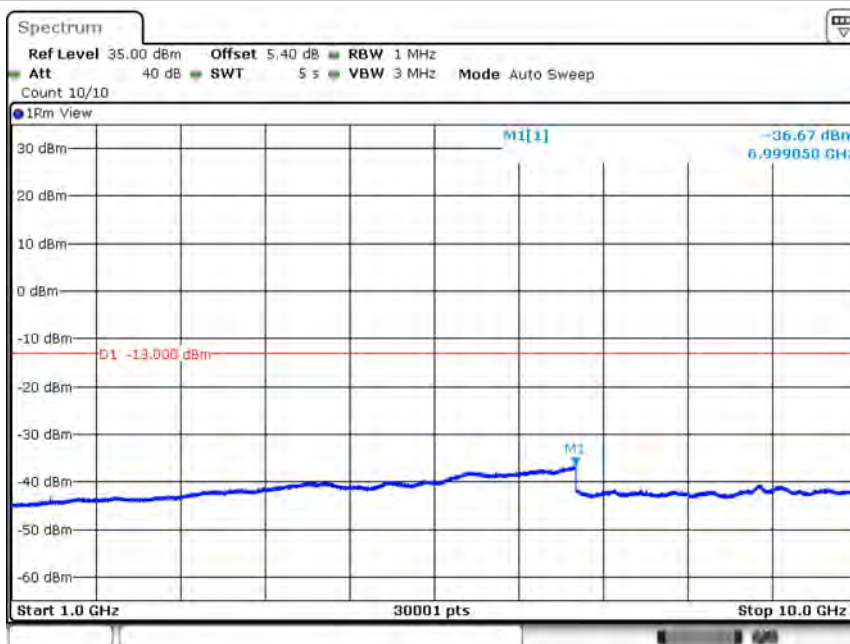
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k \cdot (\text{Span} / RBW)$ " 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

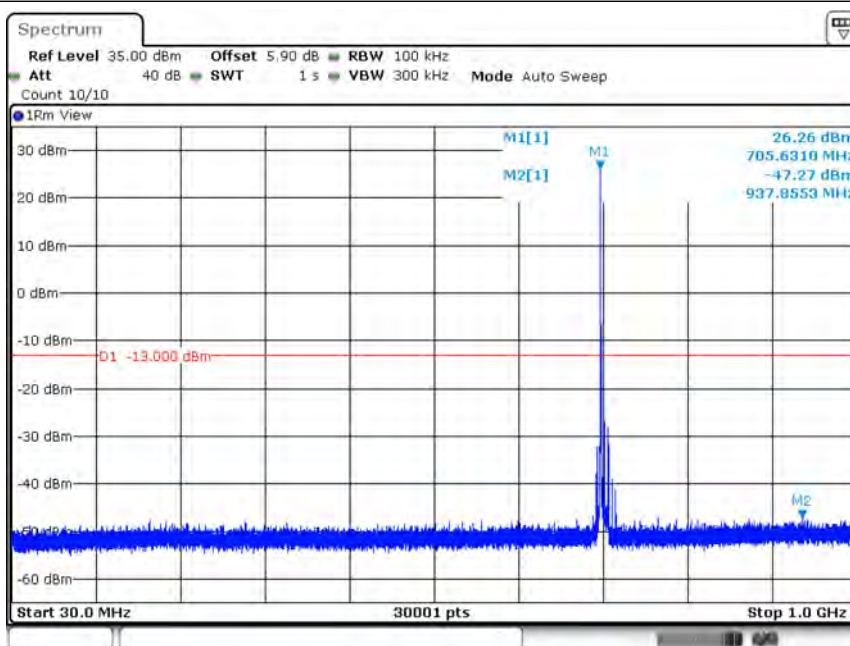


Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:41:07

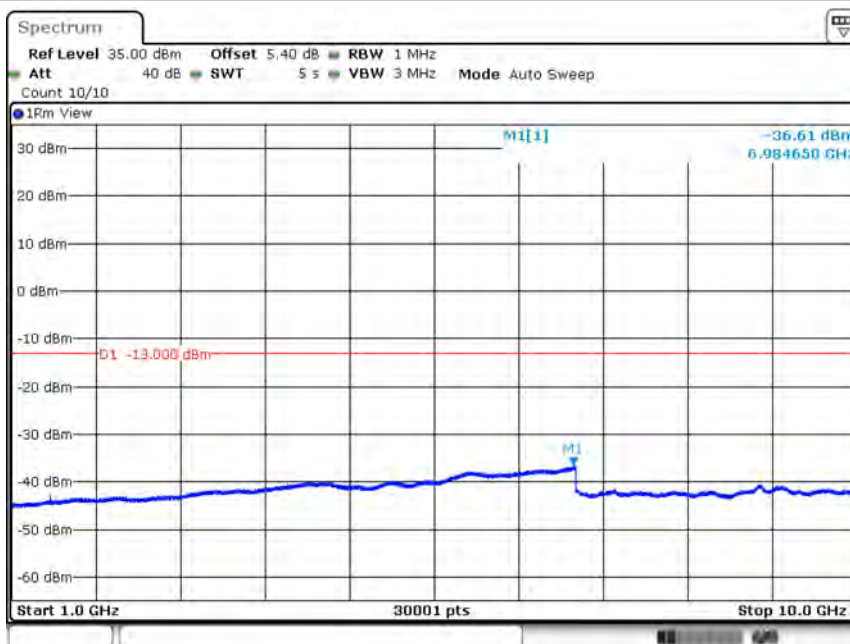
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Date: 13 AUG 2020 09:21:28

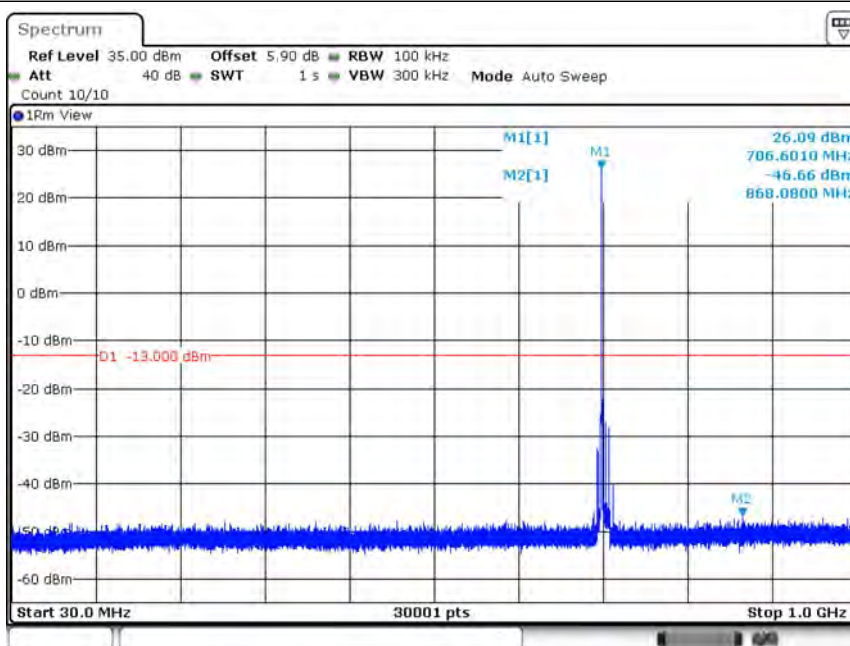


Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:43:29

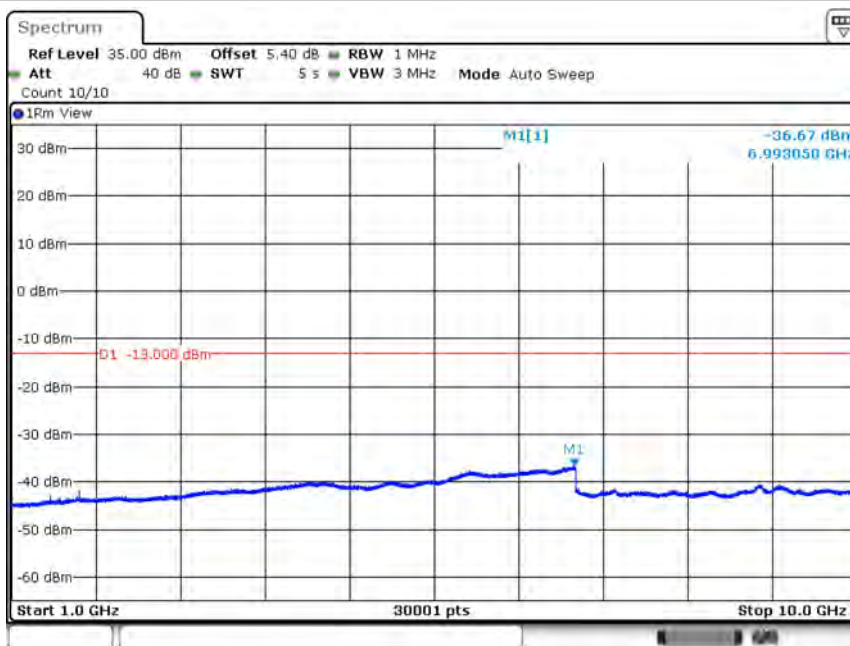
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 13 AUG 2020 09:24:15

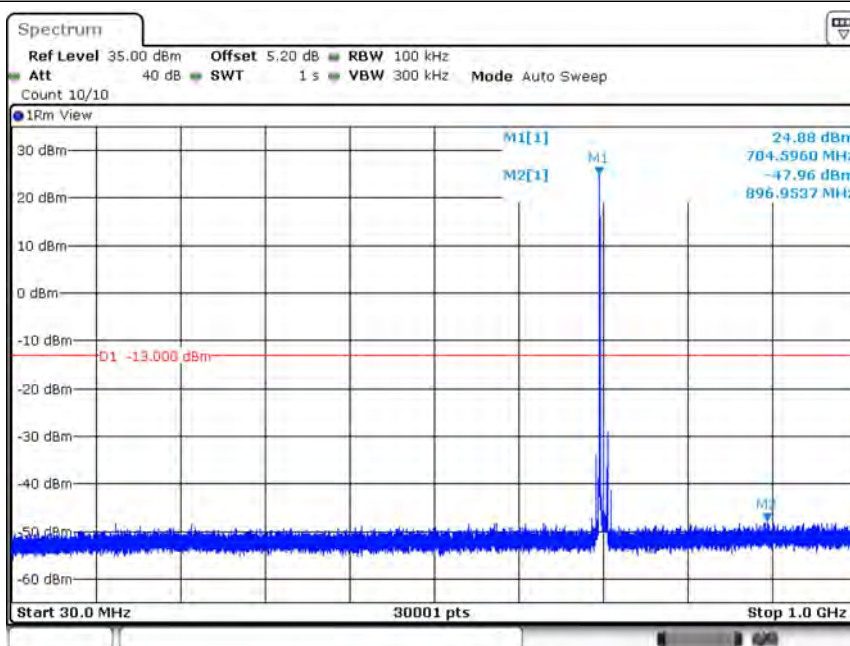


Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:45:51

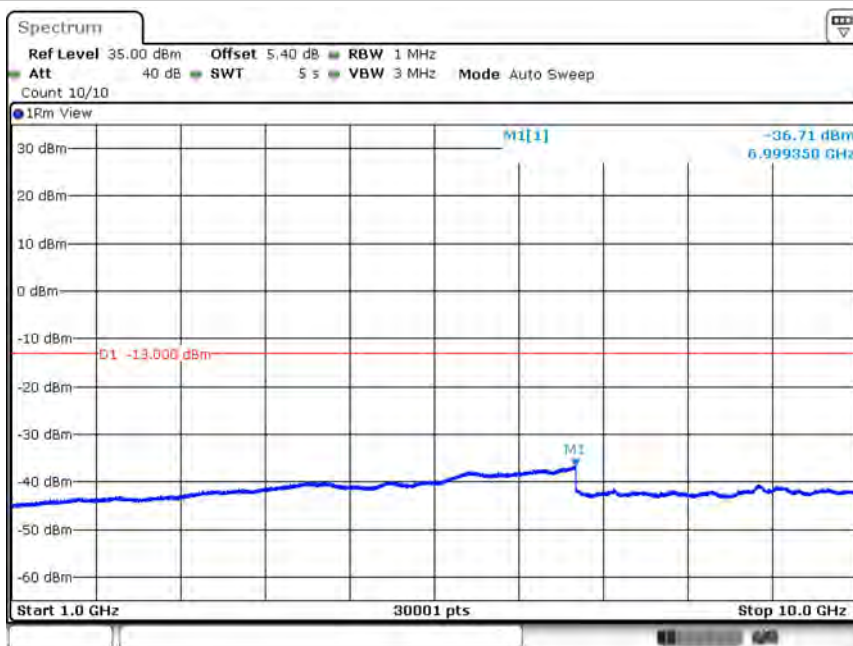
Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 19 AUG 2020 09:03:06

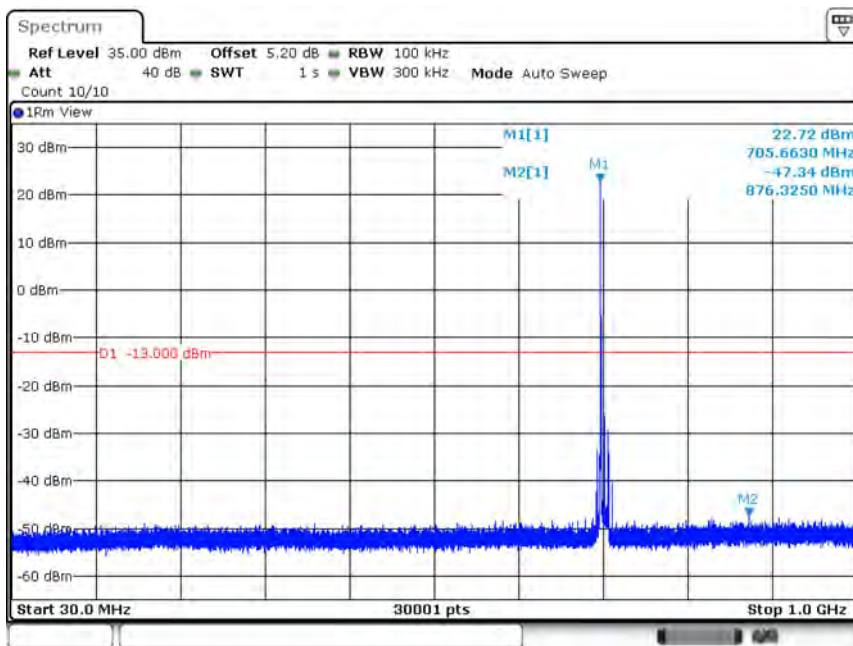


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Date: 1 SEP 2020 21:09:44

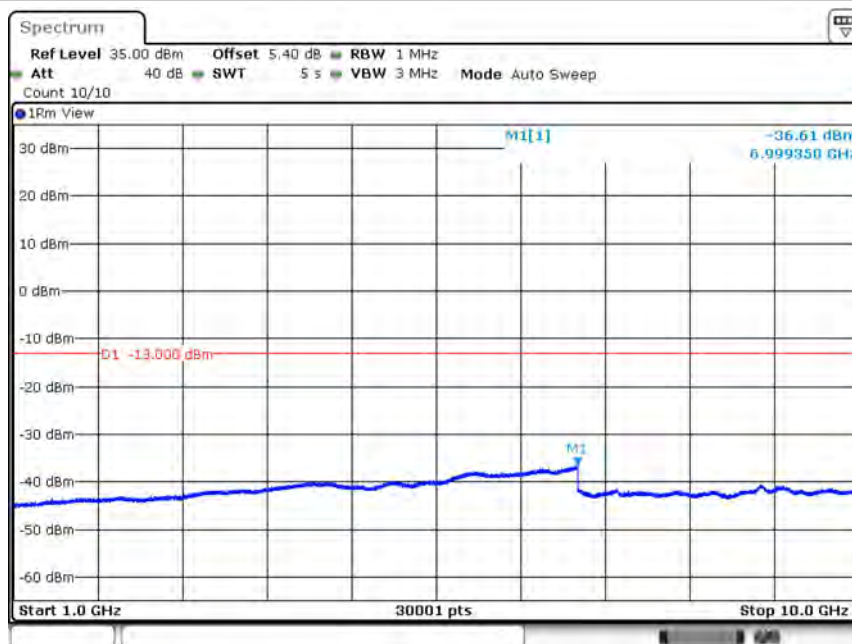
Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



Date: 19 AUG 2020 09:04:34

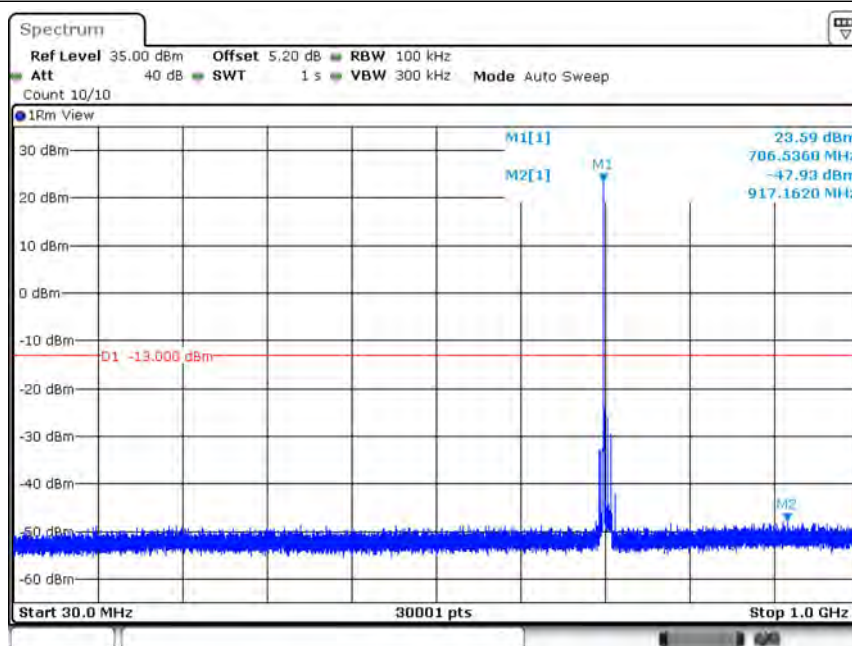


Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 1.SEP.2020 21:10:55

Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



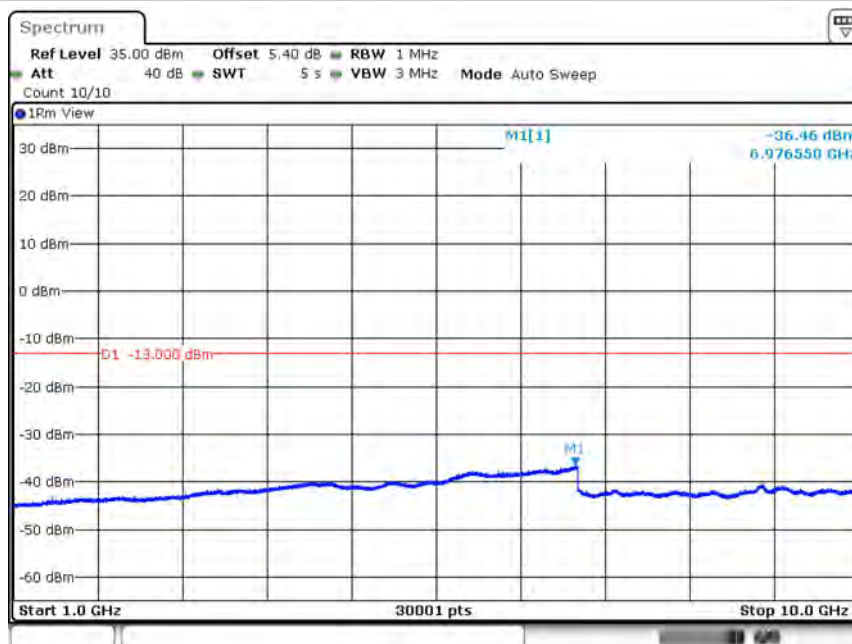
Date: 19.AUG.2020 09:06:01



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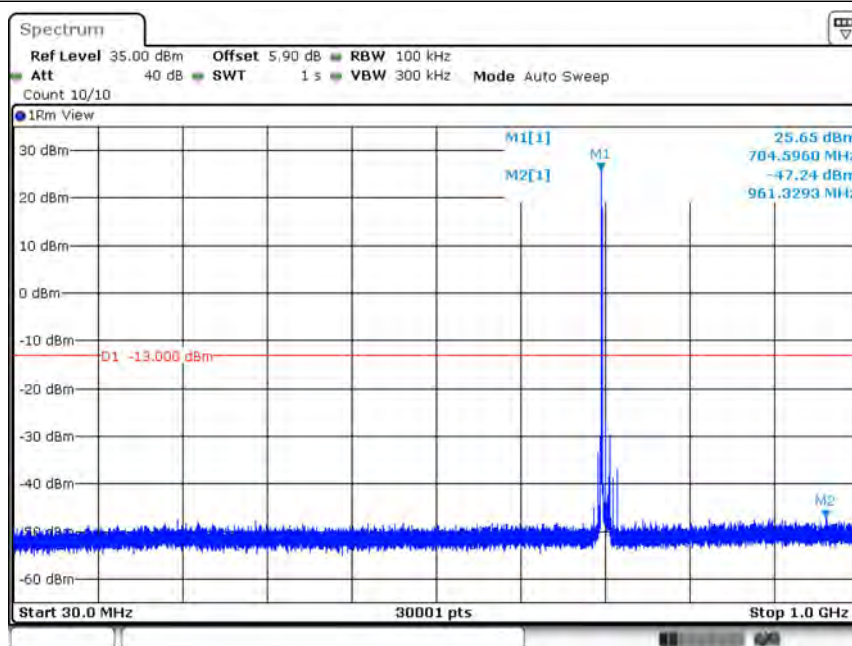
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Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 21:12:05

Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



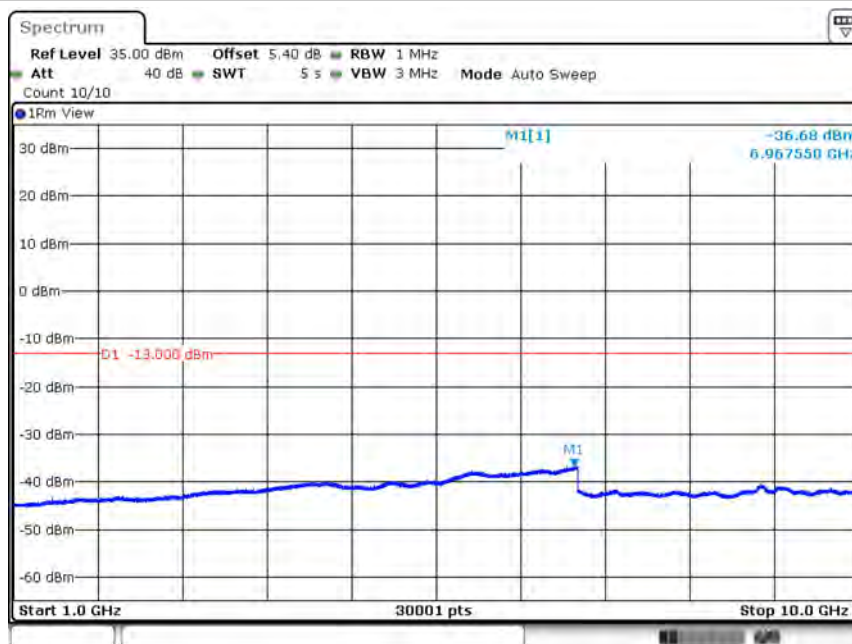
Date: 13 AUG 2020 09:20:04



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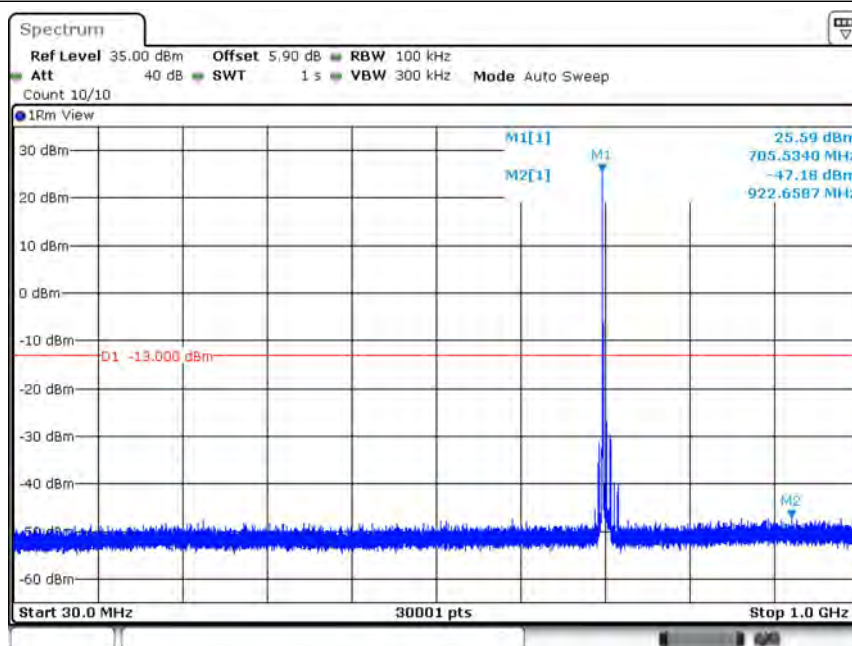
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Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:42:18

Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



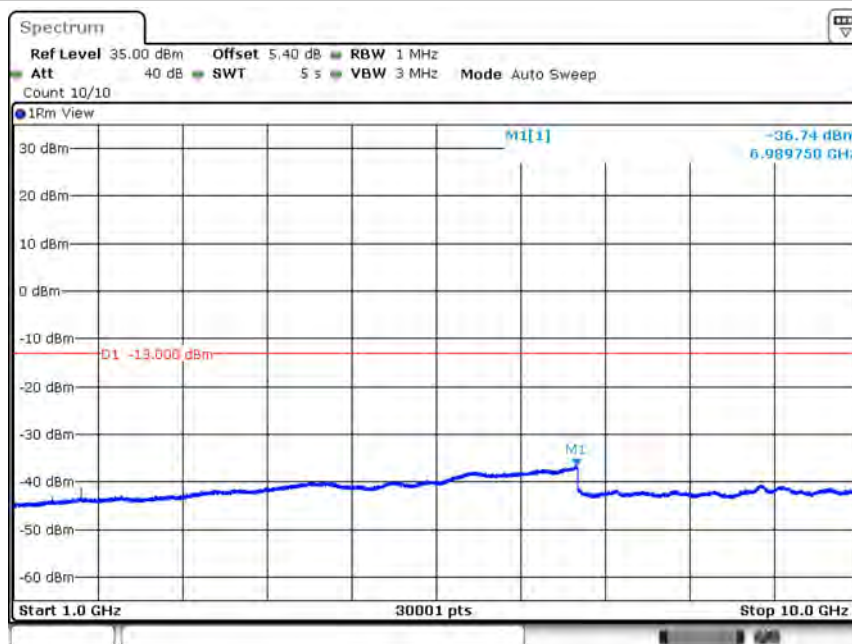
Date: 13 AUG 2020 09:22:51



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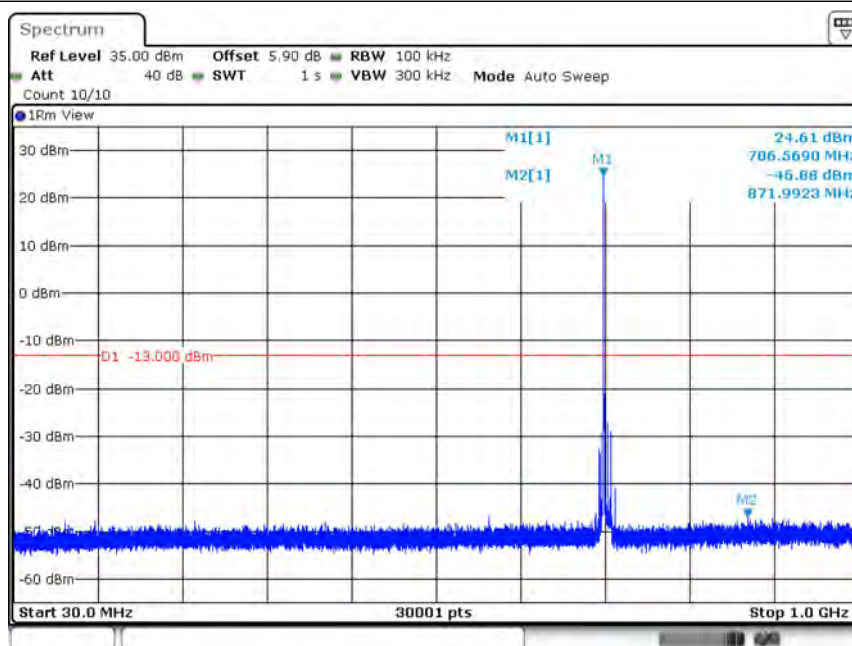
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Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:44:40

Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



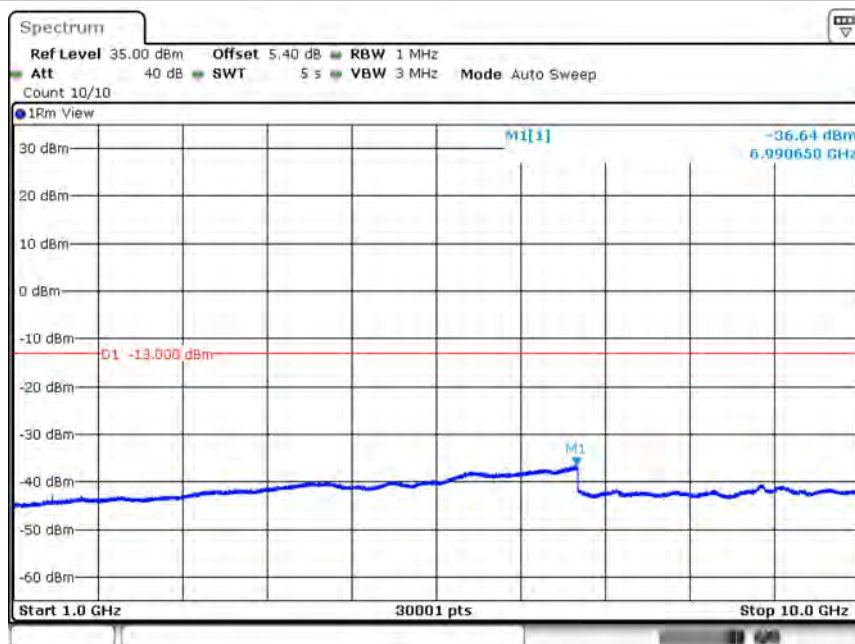
Date: 13 AUG 2020 09:25:39



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Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:47:02





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
48.9644	-70.35	-13.00	57.35	Vertical
115.4128	-65.60	-13.00	52.60	Vertical
345.0233	-69.08	-13.00	56.08	Vertical
1408.8818	-61.54	-13.00	48.54	Vertical
2113.8228	-51.70	-13.00	38.70	Vertical
7378.2551	-55.60	-13.00	42.60	Vertical
44.8902	-64.25	-13.00	51.25	Horizontal
229.0055	-68.09	-13.00	55.09	Horizontal
1409.2819	-54.97	-13.00	41.97	Horizontal
2113.8228	-45.28	-13.00	32.28	Horizontal
3772.8309	-60.88	-13.00	47.88	Horizontal
7425.8570	-56.33	-13.00	43.33	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4495	-70.34	-13.00	57.34	Vertical
116.4798	-65.44	-13.00	52.44	Vertical
1411.2823	-61.85	-13.00	48.85	Vertical
2116.6233	-47.36	-13.00	34.36	Vertical
5091.9637	-61.35	-13.00	48.35	Vertical
9310.6124	-52.44	-13.00	39.44	Vertical
44.5022	-64.59	-13.00	51.59	Horizontal
240.2095	-68.84	-13.00	55.84	Horizontal
1410.8822	-55.19	-13.00	42.19	Horizontal
2117.0234	-42.51	-13.00	29.51	Horizontal
5114.0846	-61.33	-13.00	48.33	Horizontal
9315.9326	-52.61	-13.00	39.61	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.2854	-69.77	-13.00	56.77	Vertical
112.9876	-65.48	-13.00	52.48	Vertical
301.0801	-69.31	-13.00	56.31	Vertical
1412.8826	-60.48	-13.00	47.48	Vertical
2119.8240	-46.49	-13.00	33.49	Vertical
7380.7752	-55.59	-13.00	42.59	Vertical
45.1813	-64.23	-13.00	51.23	Horizontal
106.1973	-76.02	-13.00	63.02	Horizontal
237.2024	-68.66	-13.00	55.66	Horizontal
1413.2827	-53.05	-13.00	40.05	Horizontal
2119.8240	-37.34	-13.00	24.34	Horizontal
3533.1413	-56.69	-13.00	43.69	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 [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	1.40	0.001975	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.10	0.002962	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.90	0.001268	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.70	0.002394	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	3.60	0.005070	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.10	-0.001547	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	0.40	0.000563	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	1.70	0.002398	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	2.40	0.003380	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	2.20	0.003099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	2.10	0.002958	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	0.30	0.000422	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	0.40	0.000563	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	1.10	0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	1.30	0.001834	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	2.30	0.003244	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	1.30	0.001831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	2.10	0.002958	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	1.10	0.001547	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-1.70	-0.002391	±2.5	PASS





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	-1.60	-0.002257	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	1.90	0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-0.50	-0.000705	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	0.40	0.000564	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.30	0.000423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.30	0.000423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-1.40	-0.001969	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-1.40	-0.001969	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	1.60	0.002257	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	1.30	0.001834	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	1.00	0.001410	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	1.20	0.001693	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	0.50	0.000705	±2.5	PASS





Band17	10MHz	64QAM	23780	50RB#0	NV	40	1.20	0.001693	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	1.20	0.001693	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	1.30	0.001831	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	0.80	0.001127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	1.00	0.001408	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	0.70	0.000985	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	0.40	0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-1.80	-0.002532	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	0.60	0.000846	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	0.50	0.000705	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	1.30	0.001831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	2.30	0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	1.30	0.001831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	2.30	0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.70	0.002394	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	1.10	0.001549	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-0.50	-0.000704	±2.5	PASS



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Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-1.10	-0.001547	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-1.60	-0.002250	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-1.40	-0.001969	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS



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