



Appendix B

E-UTRA Band 17



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	TEST RESULT.....	3
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	8
2.1.	TEST RESULT.....	8
2.2.	TEST PLOTS.....	8
3.	MODULATION CHARACTERISTICS.....	13
3.1.	TEST MODE = LTE /TM1 10MHZ.....	13
3.1.1.	TEST CHANNEL = MCH.....	13
3.2.	TEST MODE = LTE /TM2 10MHZ.....	14
3.2.1.	TEST CHANNEL = MCH.....	14
3.3.	TEST MODE = LTE /TM3 10MHZ.....	15
3.3.1.	TEST CHANNEL = MCH.....	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	16
4.1.	TEST RESULT.....	16
4.2.	TEST PLOTS.....	17
5.	BAND EDGE COMPLIANCE.....	26
5.1.	TEST RESULT.....	26
5.2.	TEST PLOTS.....	27
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	39
6.1.	TEST PLOTS.....	40
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	49
7.1.	TEST MODE =LTE/TM1 10MHZ.....	49
7.1.1.	TEST CHANNEL = LCH.....	49
7.1.2.	TEST CHANNEL = MCH.....	49
7.1.3.	TEST CHANNEL = HCH.....	50
8.	FREQUENCY STABILITY.....	51
8.1.	FREQUENCY VS VOLTAGE.....	51
8.2.	FREQUENCY VS TEMPERATURE.....	52



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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#12	23.65	13.06	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.79	13.2	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.74	13.15	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.76	12.17	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.79	12.2	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.7	12.11	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.78	12.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.63	13.04	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.81	13.22	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.59	13	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.78	12.19	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.69	12.1	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.7	12.11	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	12.16	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.62	13.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.81	13.22	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.61	13.02	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.68	12.09	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.8	12.21	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.68	12.09	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.68	12.09	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.8	11.21	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.63	11.04	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.57	10.98	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.88	10.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.84	10.25	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.68	10.09	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.64	10.05	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.77	11.18	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.52	10.93	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.62	11.03	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.88	10.29	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.85	10.26	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.56	9.97	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.65	10.06	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.81	11.22	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.52	10.93	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.51	10.92	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.82	10.23	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.9	10.31	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.67	10.08	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.57	9.98	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.02	12.43	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.84	12.25	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.07	12.48	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.01	11.42	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.83	11.24	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.74	11.15	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.76	11.17	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.77	12.18	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.81	12.22	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.67	12.08	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.05	11.46	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.9	11.31	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.77	11.18	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.79	11.2	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.63	12.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.22	12.63	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.71	12.12	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.02	11.43	34.77	PASS



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Band17	5MHz	16QAM	23825	12RB#6	21.78	11.19	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.72	11.13	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.69	11.1	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.61	13.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.85	13.26	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.76	13.17	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.89	12.3	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.82	12.23	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.9	12.31	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.6	13.01	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.78	13.19	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.79	13.2	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.86	12.27	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.83	12.24	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.84	12.25	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.62	13.03	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.8	13.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.76	13.17	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.85	12.26	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.77	12.18	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.85	12.26	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	11.33	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.78	11.19	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.68	11.09	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.98	10.39	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.99	10.4	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.83	10.24	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.76	10.17	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.92	11.33	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.63	11.04	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#0	21.72	11.13	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.02	10.43	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.99	10.4	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.71	10.12	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.79	10.2	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.96	11.37	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.67	11.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.63	11.04	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.94	10.35	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.03	10.44	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.77	10.18	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.69	10.1	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.12	12.53	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.08	12.49	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.65	12.06	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.06	11.47	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.89	11.3	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.83	11.24	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.89	11.3	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.17	12.58	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.2	12.61	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.91	12.32	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.05	11.46	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.78	11.19	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.85	11.26	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.95	11.36	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.72	12.13	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.26	12.67	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.03	12.44	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.11	11.52	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.78	11.19	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.76	11.17	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.87	11.28	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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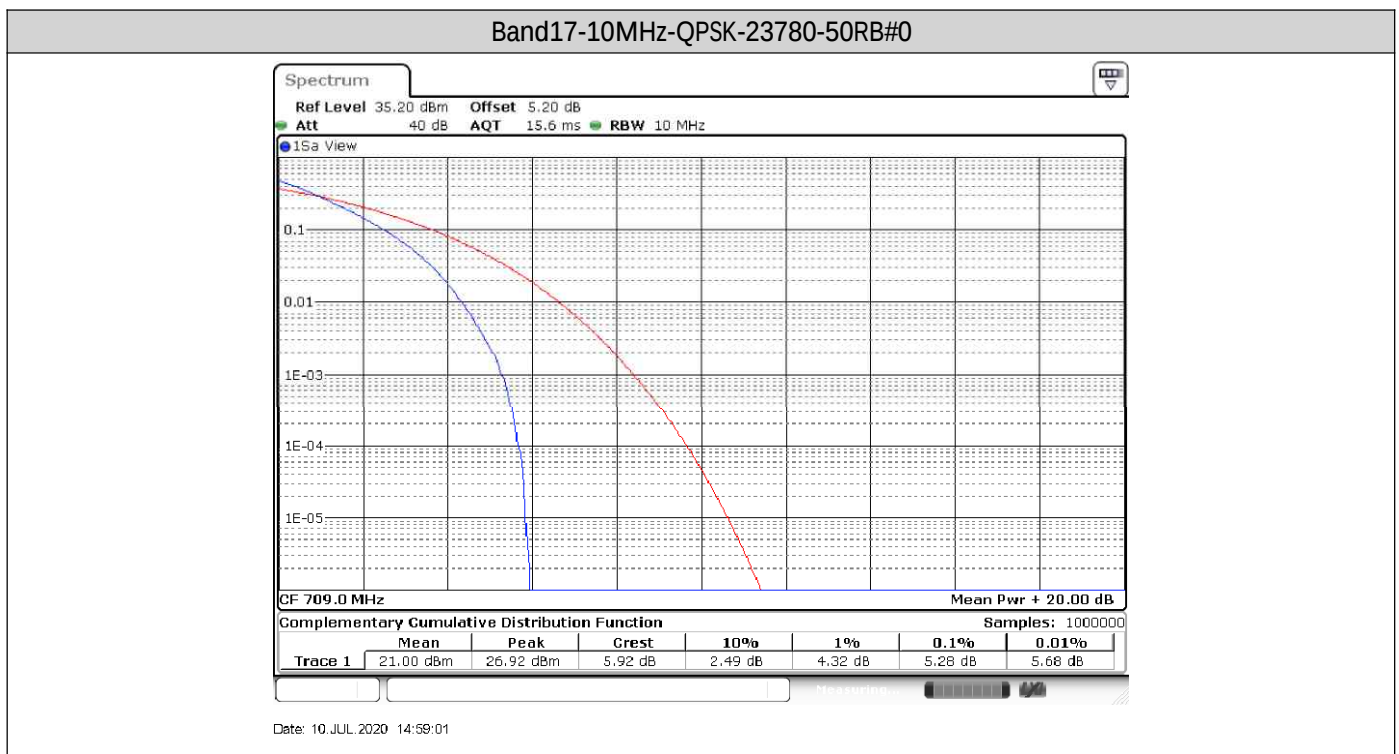


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

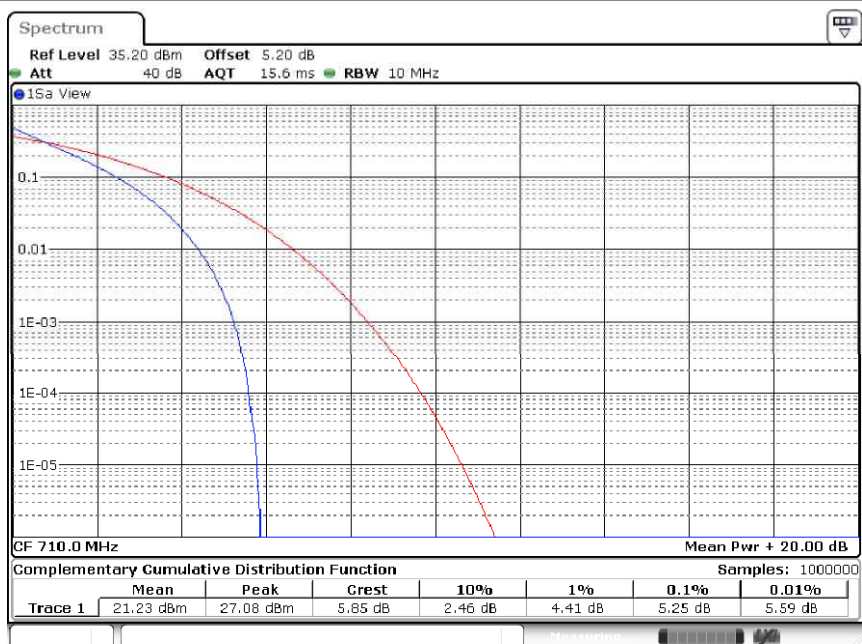
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.25	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.19	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.38	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.41	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.46	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.03	13	PASS

2.2. Test Plots



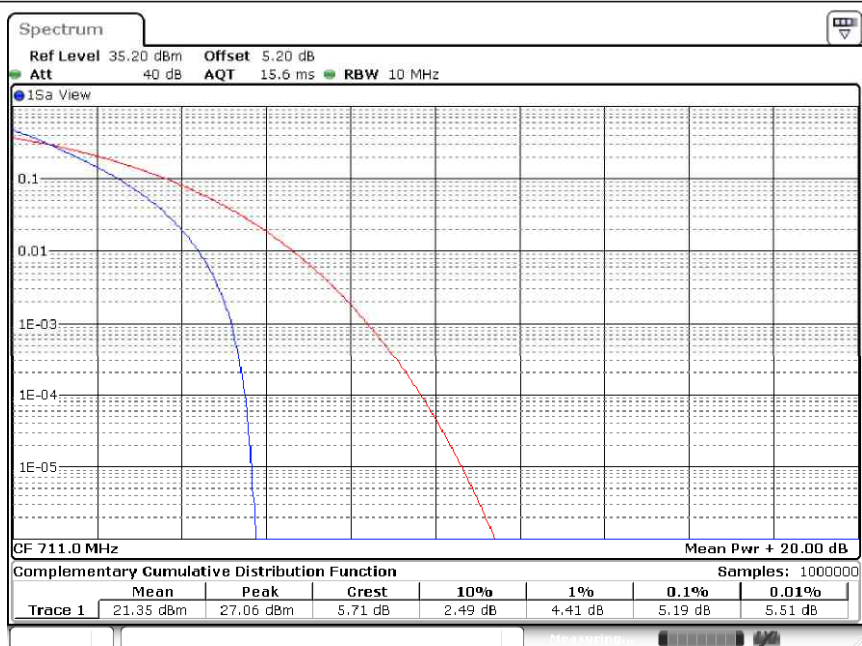


Band17-10MHz-QPSK-23790-50RB#0



Date: 10 JUL 2020 14:59:24

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

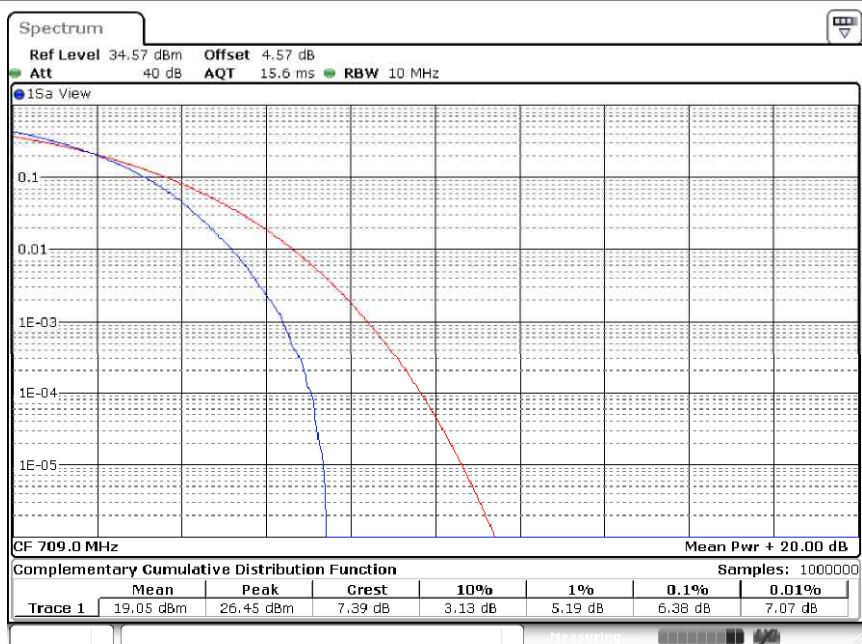


Date: 10 JUL 2020 14:59:46



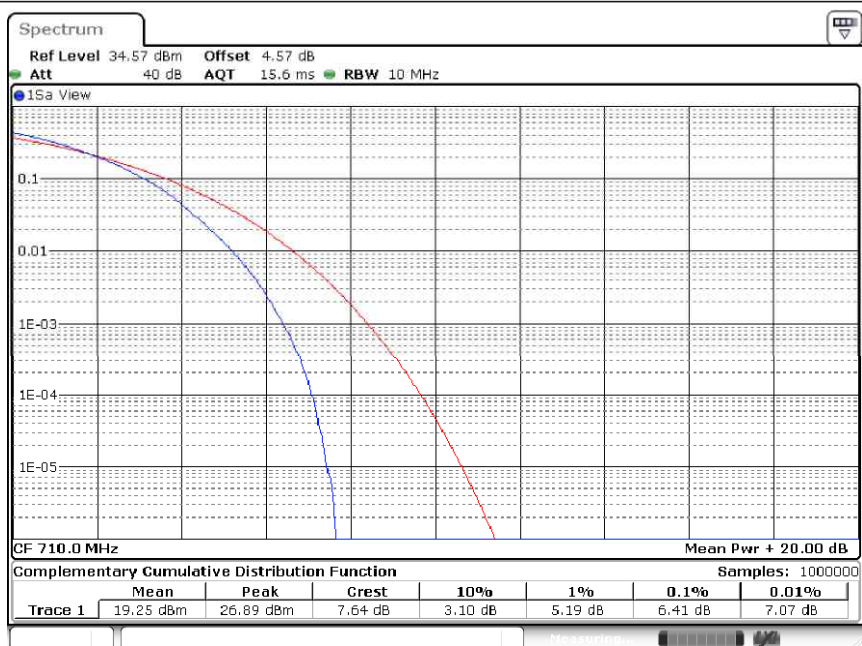


Band17-10MHz-64QAM-23780-50RB#0



Date: 14 JUL 2020 08:46:44

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

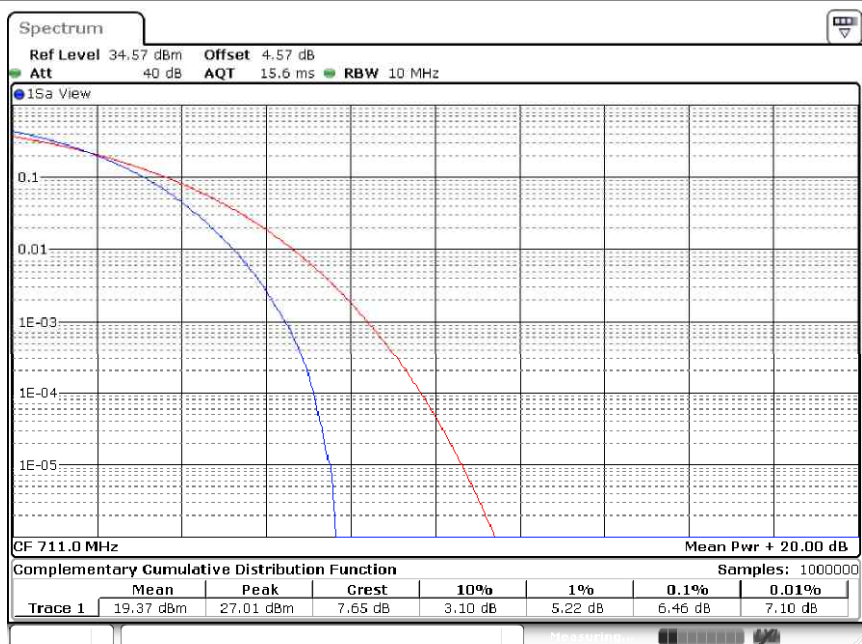


Date: 14 JUL 2020 08:46:56



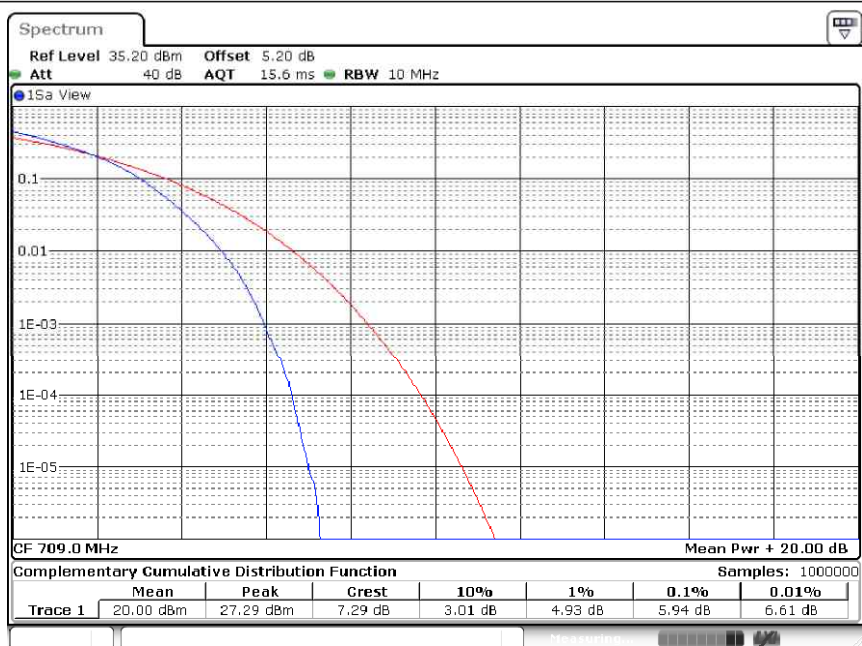


Band17-10MHz-64QAM-23800-50RB#0



Date: 14 JUL 2020 08:47:07

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

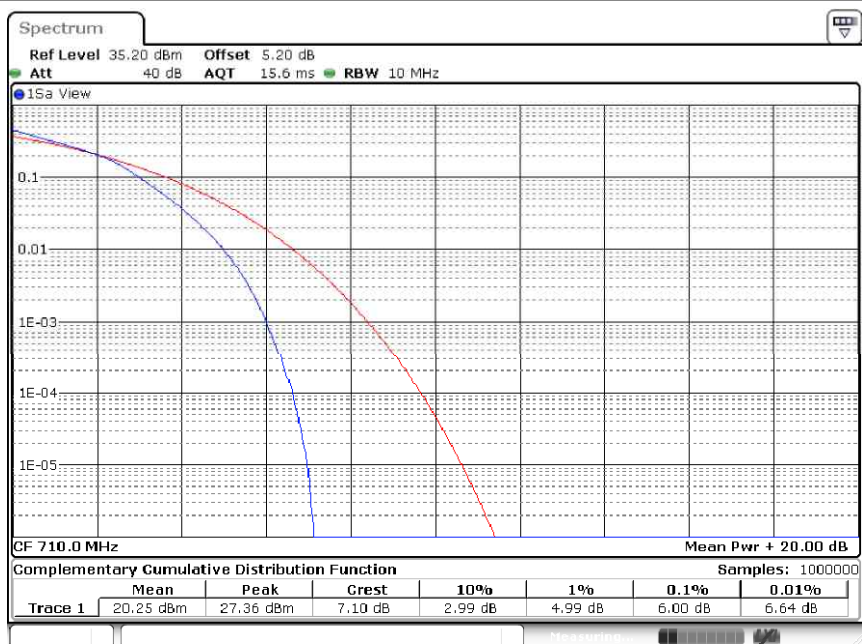


Date: 10 JUL 2020 14:59:12



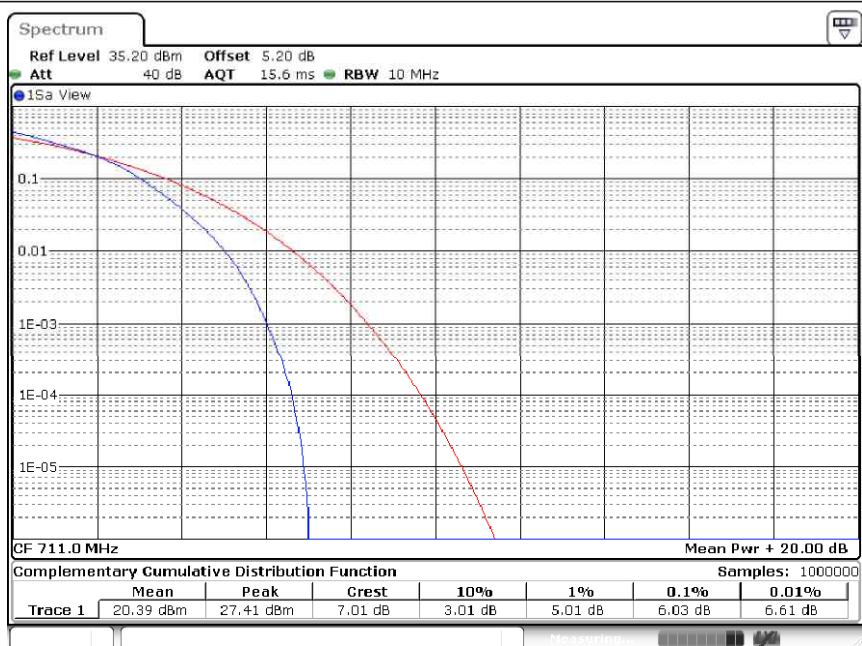


Band17-10MHz-16QAM-23790-50RB#0



Date: 10 JUL 2020 14:59:35

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



Date: 10 JUL 2020 14:59:57



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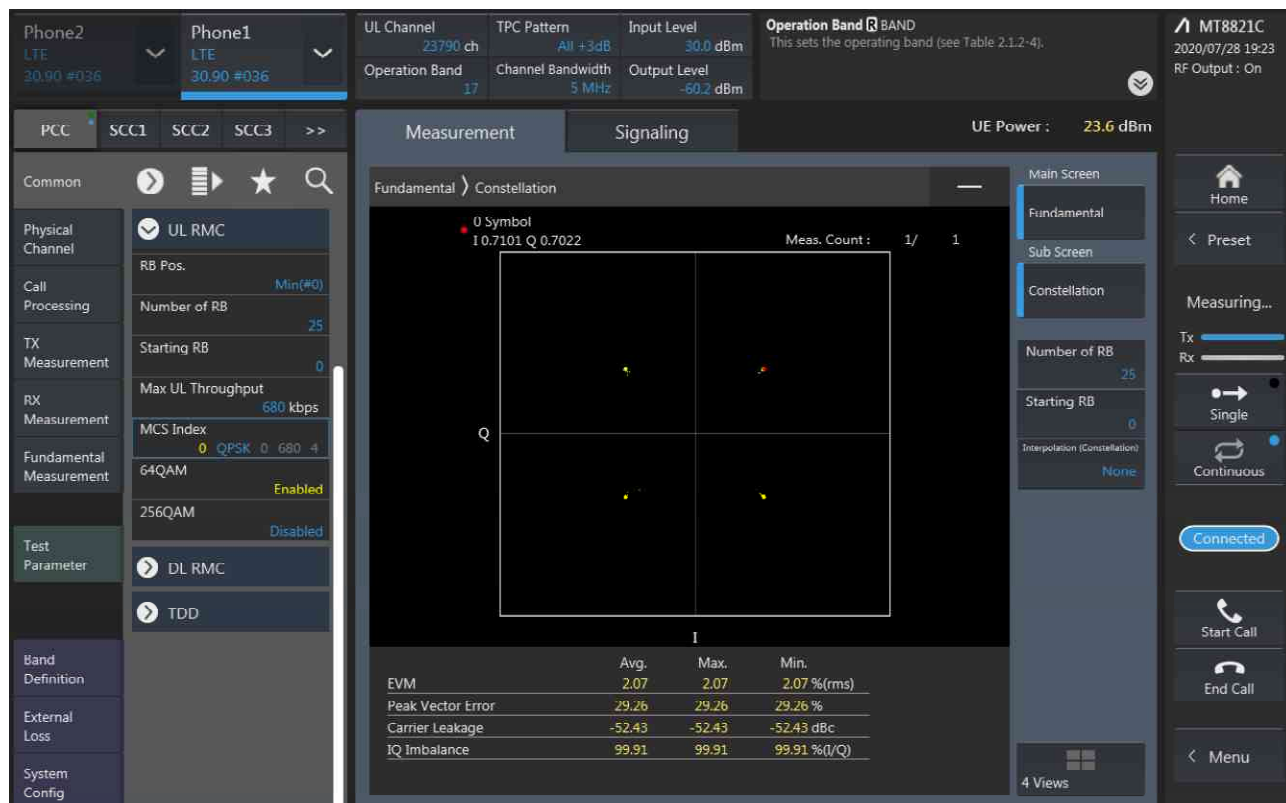
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

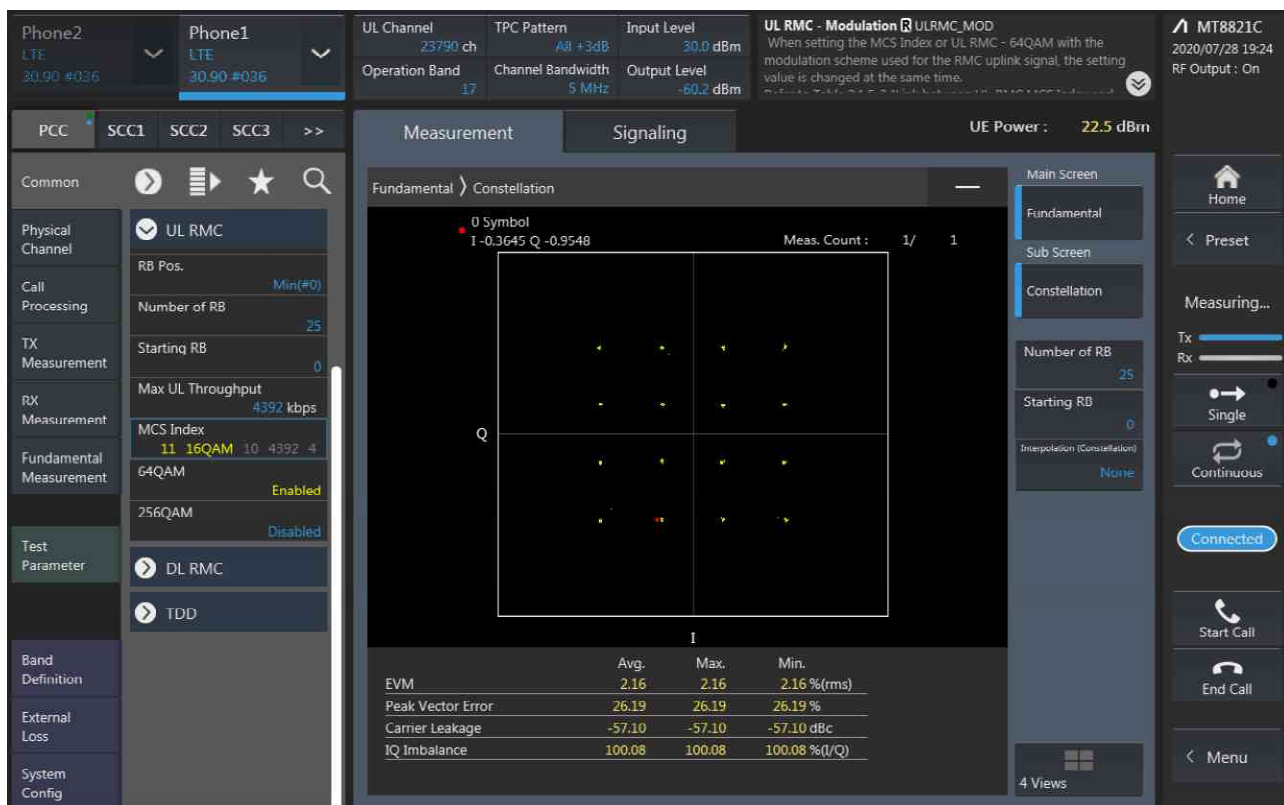
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

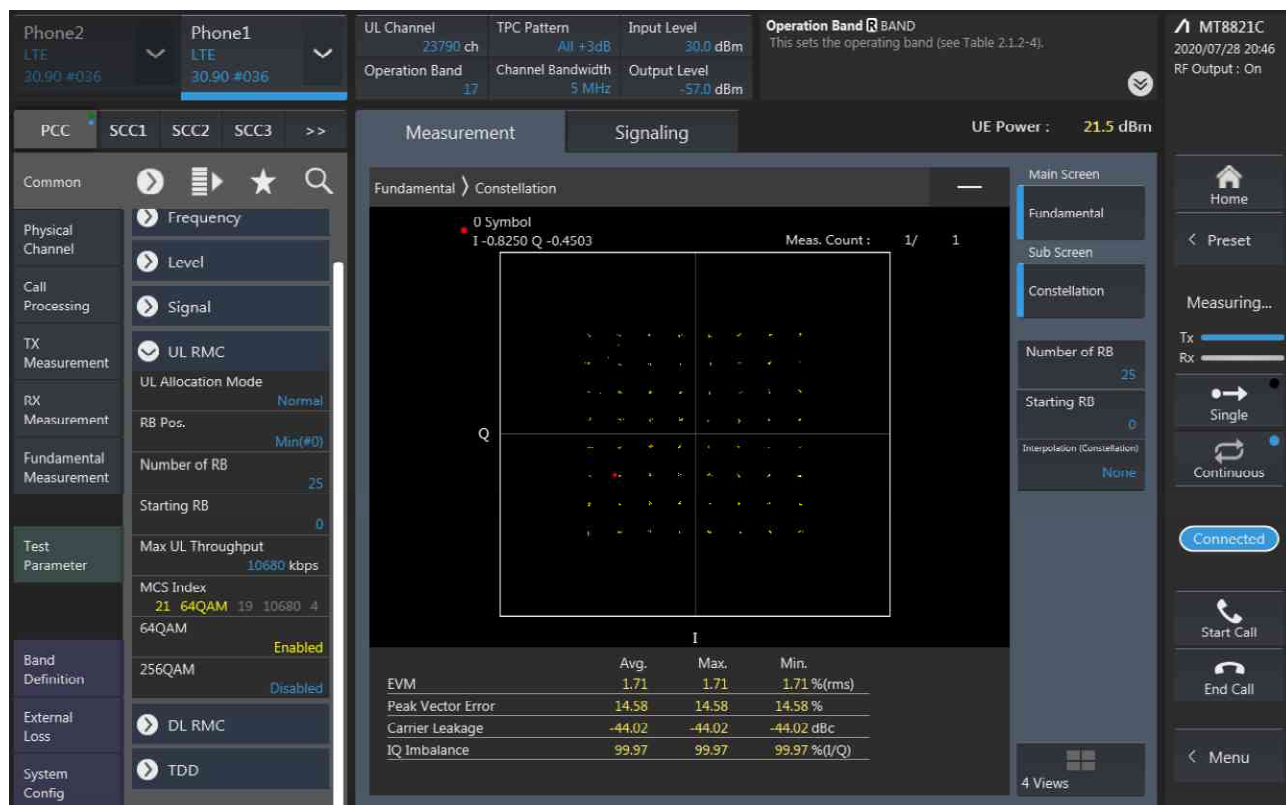
3.2.1. Test Channel = MCH





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	4.980	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	5.150	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.466	5.030	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.970	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	5.060	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.486	5.100	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	5.050	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.505	5.130	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	5.040	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.840	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.971	9.980	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.971	9.940	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.971	9.780	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.971	10.120	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.971	9.920	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.951	9.860	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.991	10.100	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.991	9.920	PASS



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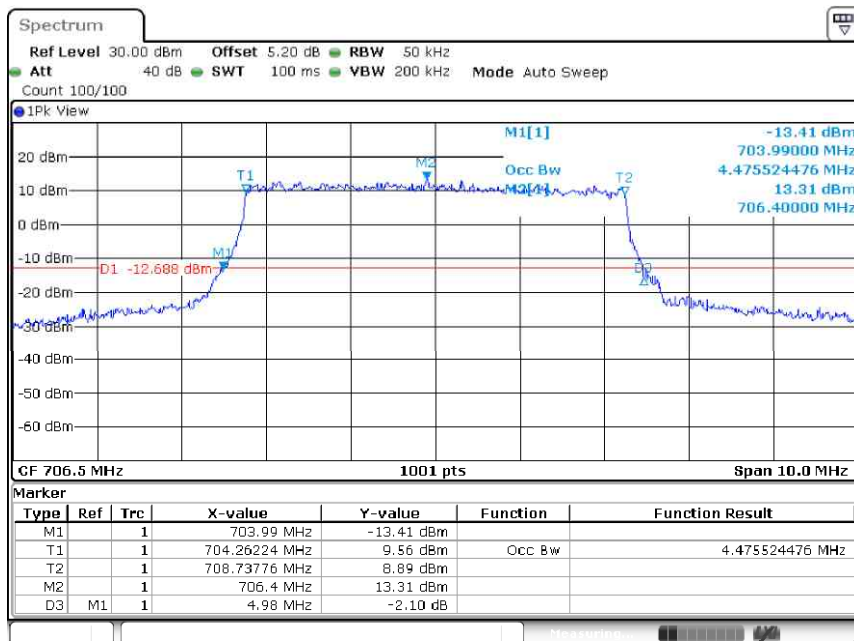
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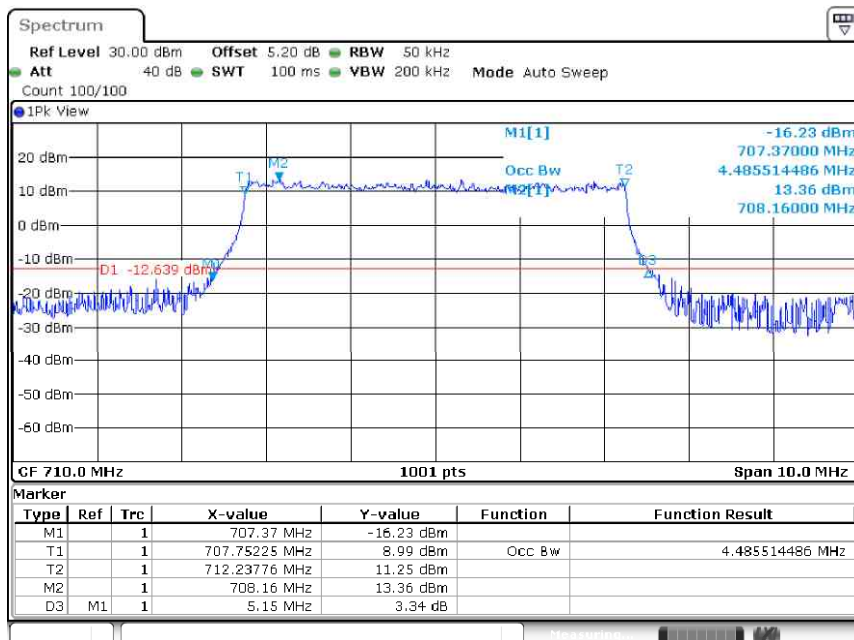
4.2. Test Plots

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



Date: 10 JUL 2020 14:42:10

Band17-5MHz-QPSK-23790-25RB#0-4.486



Date: 10 JUL 2020 14:42:50

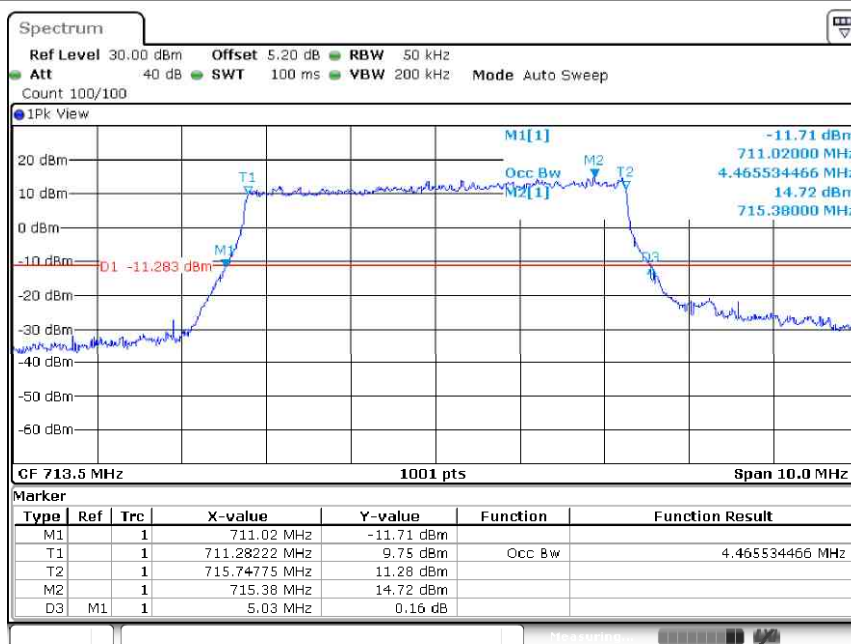


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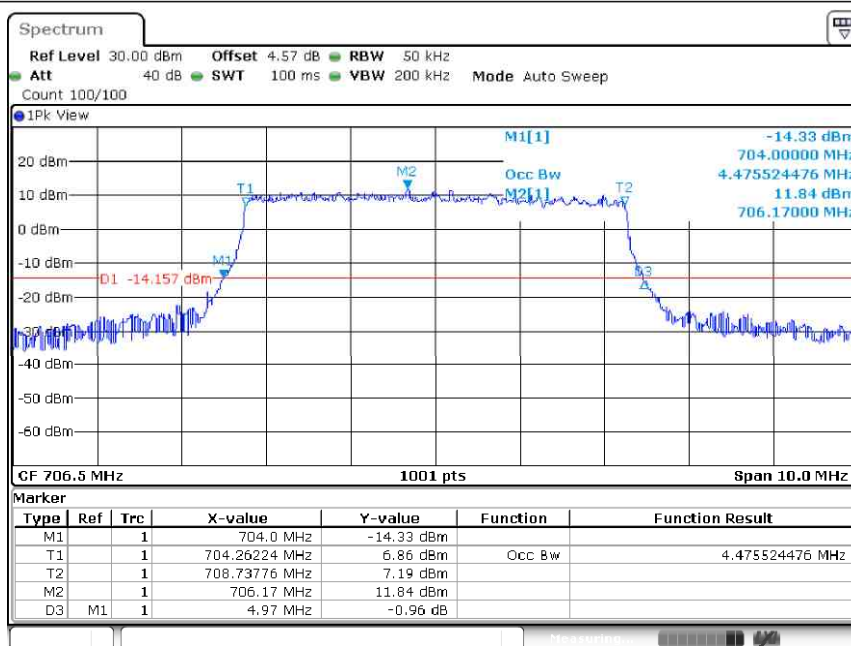


Band17-5MHz-QPSK-23825-25RB#0-4.466



Date: 10 JUL 2020 14:43:29

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



Date: 14 JUL 2020 08:38:06



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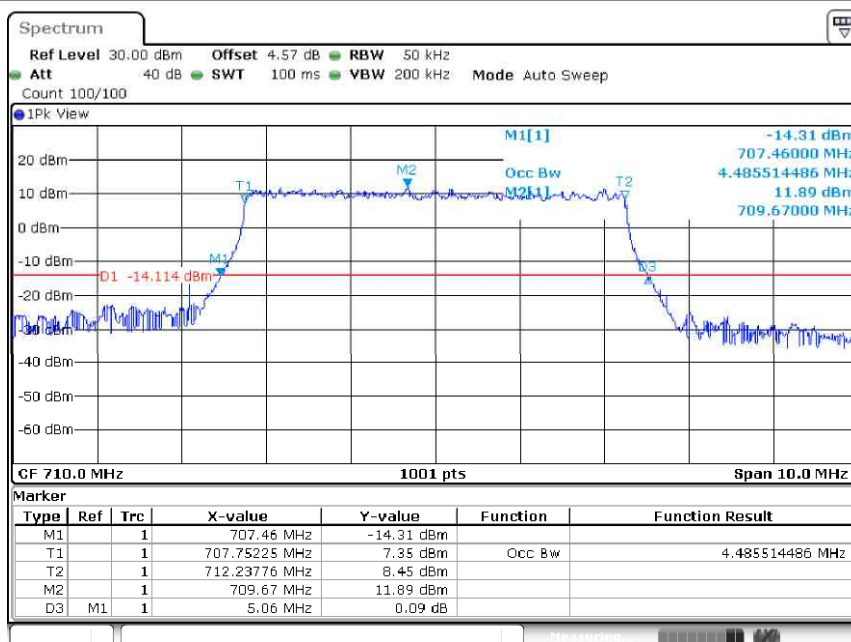
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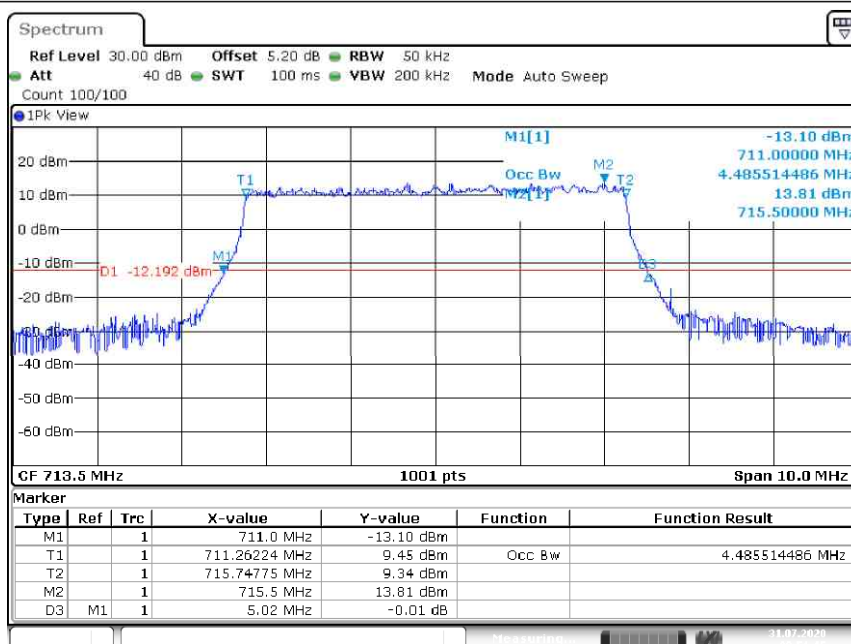


Band17-5MHz-64QAM-23790-25RB#0-4.486



Date: 14 JUL 2020 08:38:26

Band17-5MHz-64QAM-23825-25RB#0-4.486



Date: 31 JUL 2020 08:51:15

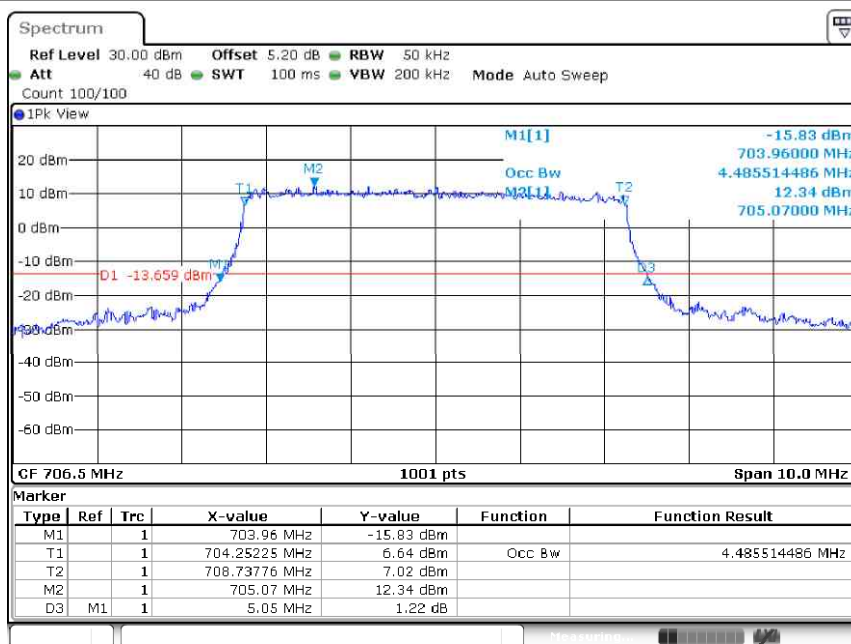


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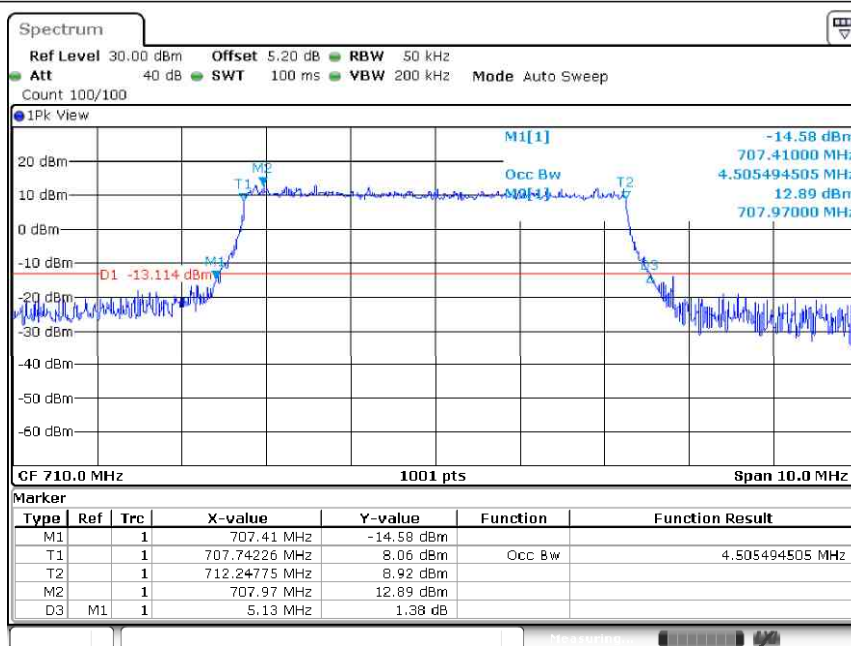


Band17-5MHz-16QAM-23755-25RB#0-4.486



Date: 10 JUL 2020 14:42:30

Band17-5MHz-16QAM-23790-25RB#0-4.505



Date: 10 JUL 2020 14:43:09



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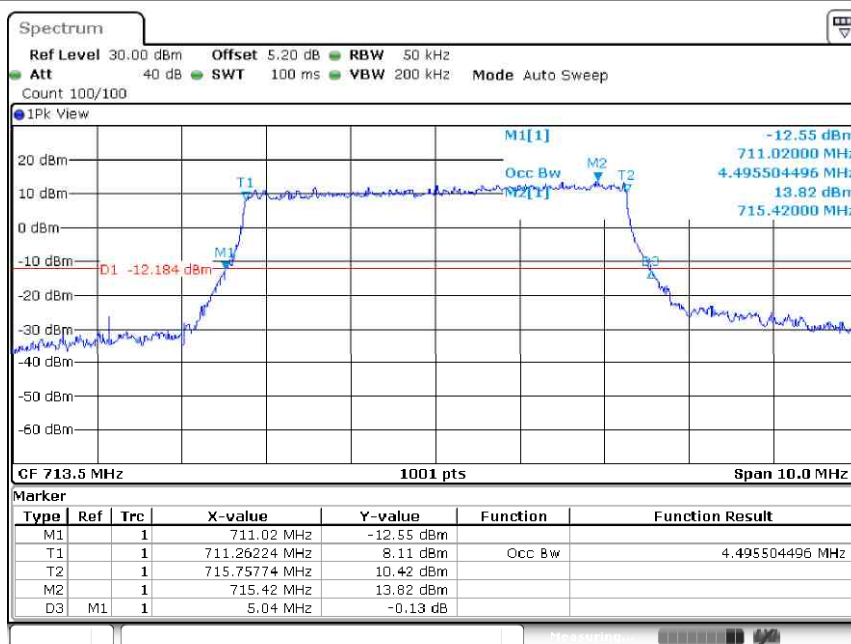
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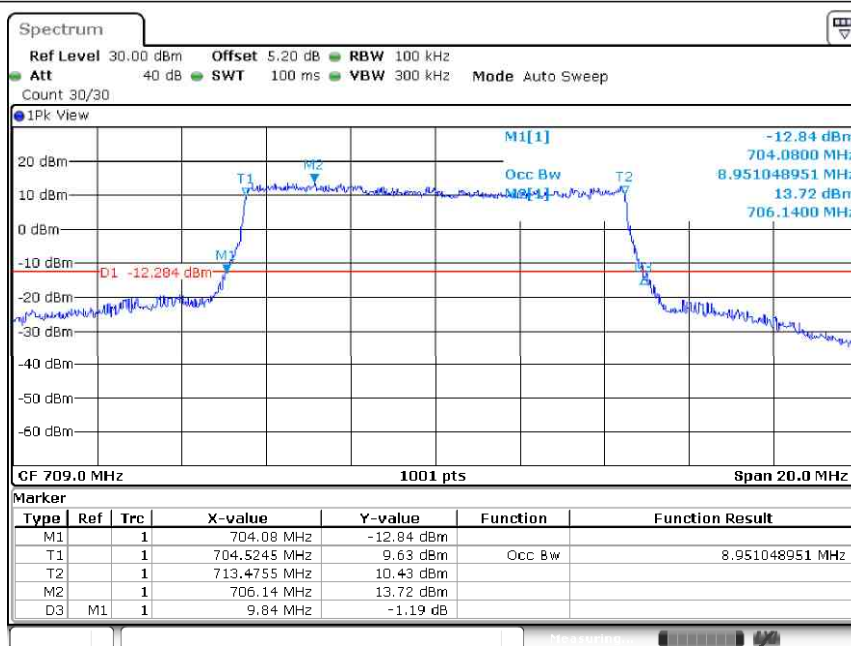


Band17-5MHz-16QAM-23825-25RB#0-4.496



Date: 10 JUL 2020 14:43:49

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



Date: 10 JUL 2020 14:44:07



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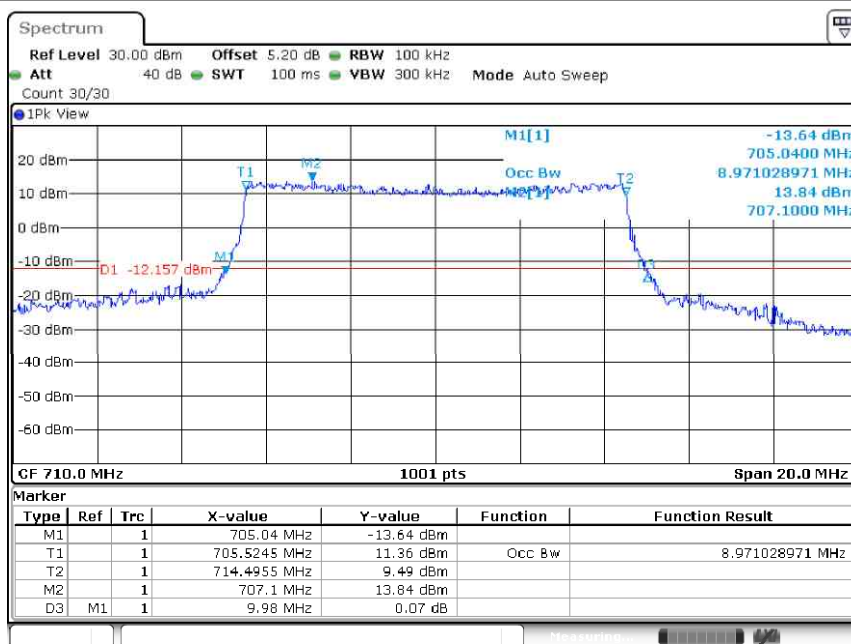
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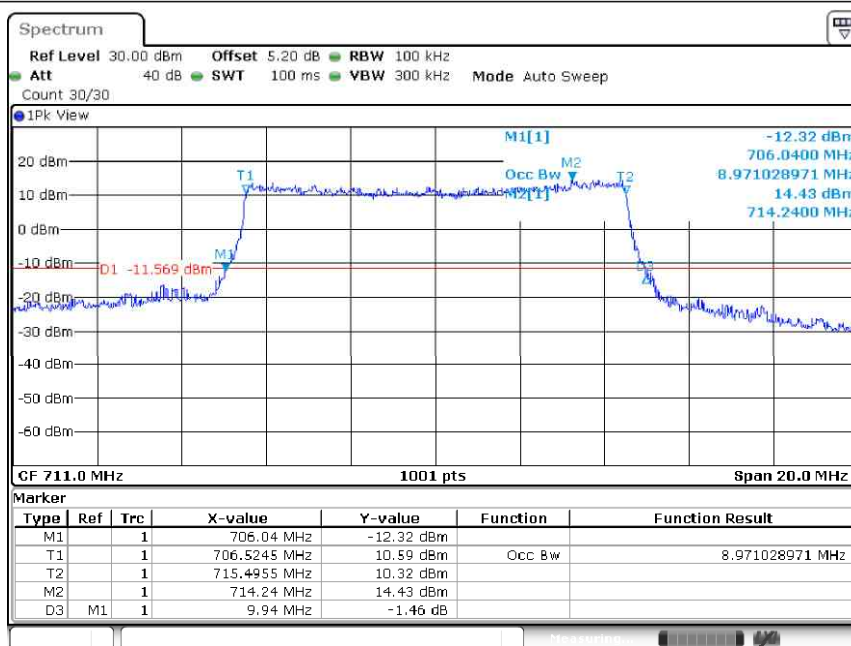


Band17-10MHz-QPSK-23790-50RB#0-8.971



Date: 10.JUL.2020 14:44:32

Band17-10MHz-QPSK-23800-50RB#0-8.971

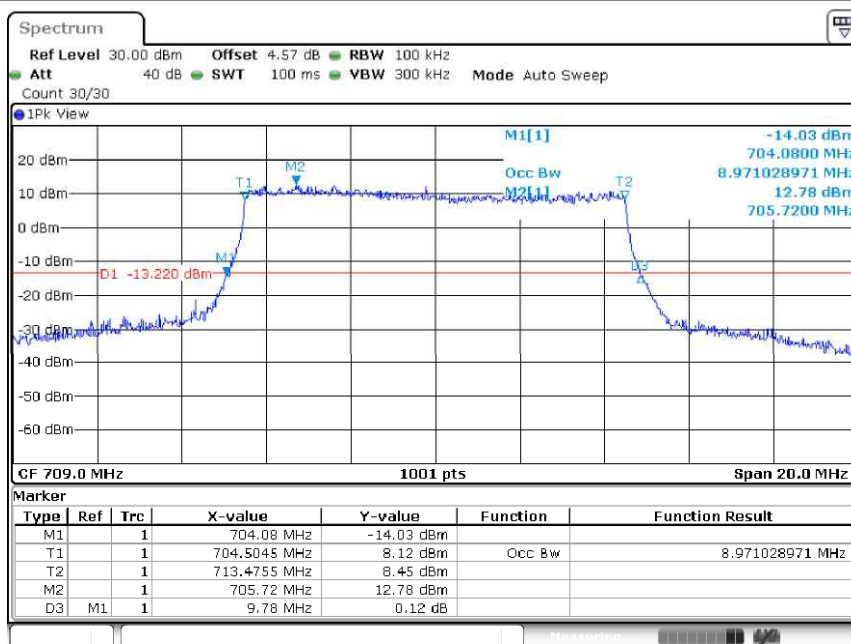


Date: 10.JUL.2020 14:44:58



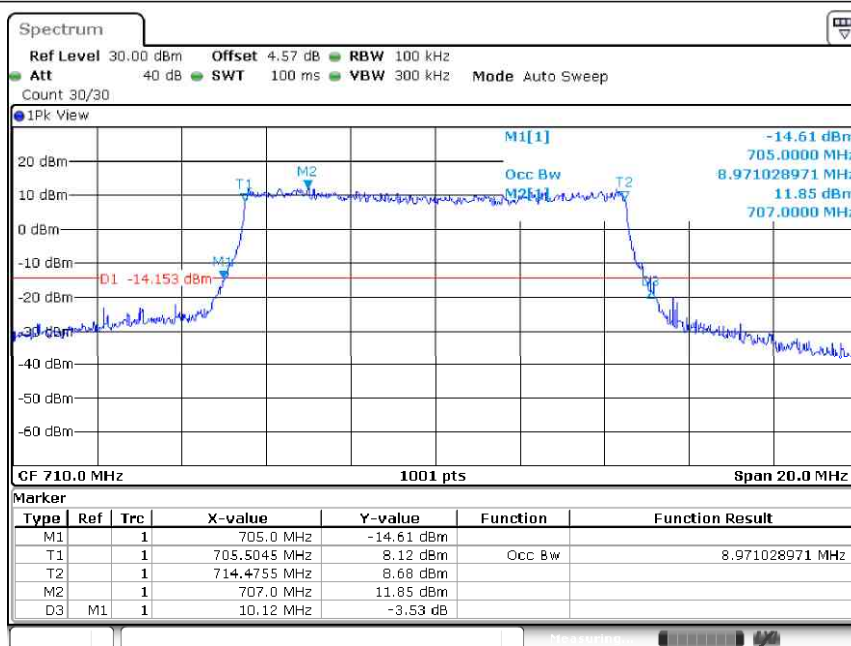


Band17-10MHz-64QAM-23780-50RB#0-8.971



Date: 14 JUL 2020 08:39:03

Band17-10MHz-64QAM-23790-50RB#0-8.971



Date: 14 JUL 2020 08:39:16



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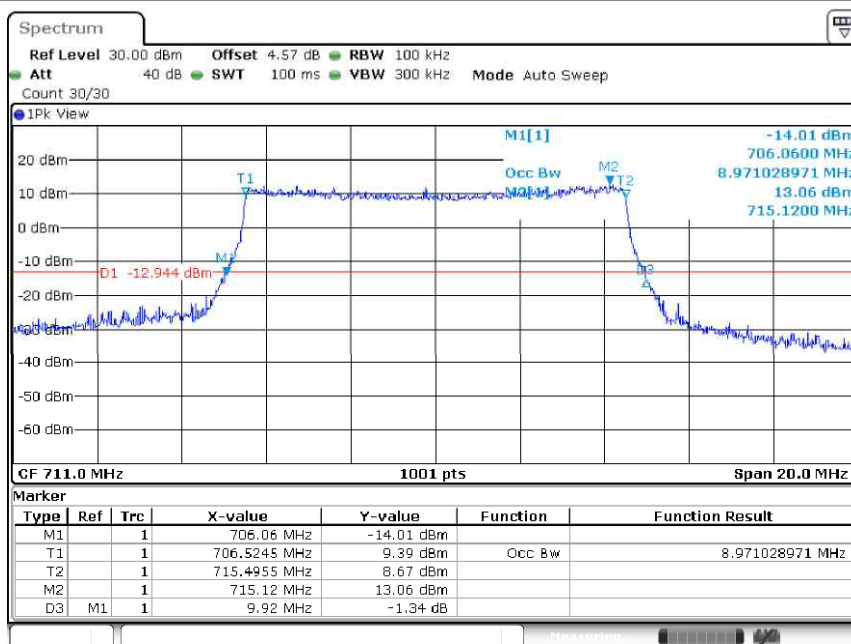
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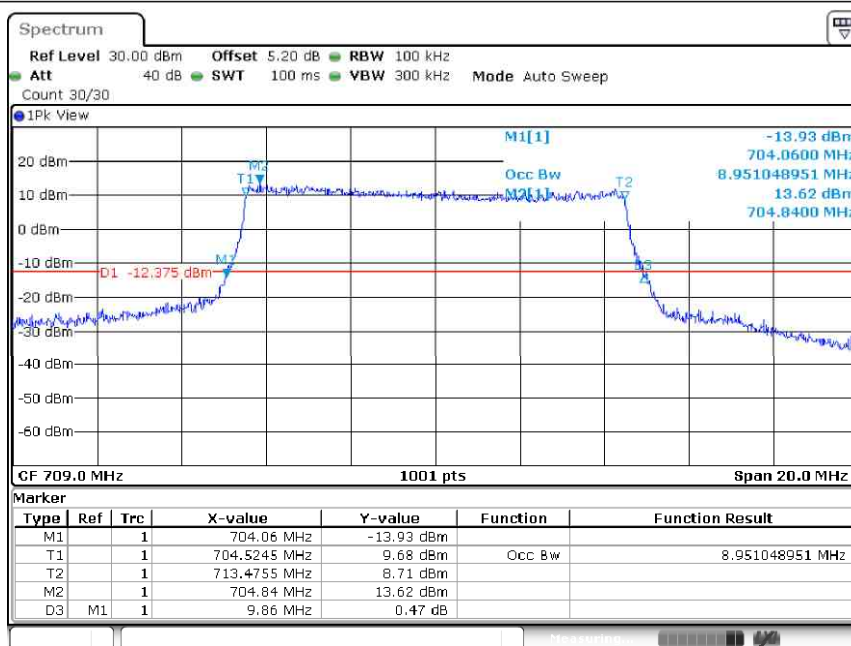


Band17-10MHz-64QAM-23800-50RB#0-8.971



Date: 14 JUL 2020 08:39:29

Band17-10MHz-16QAM-23780-50RB#0-8.951



Date: 10 JUL 2020 14:44:19



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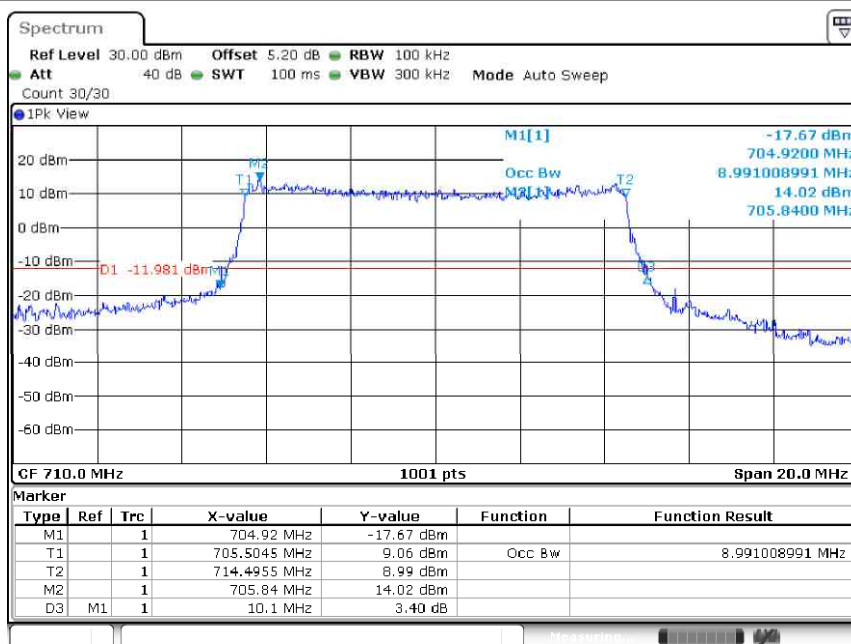
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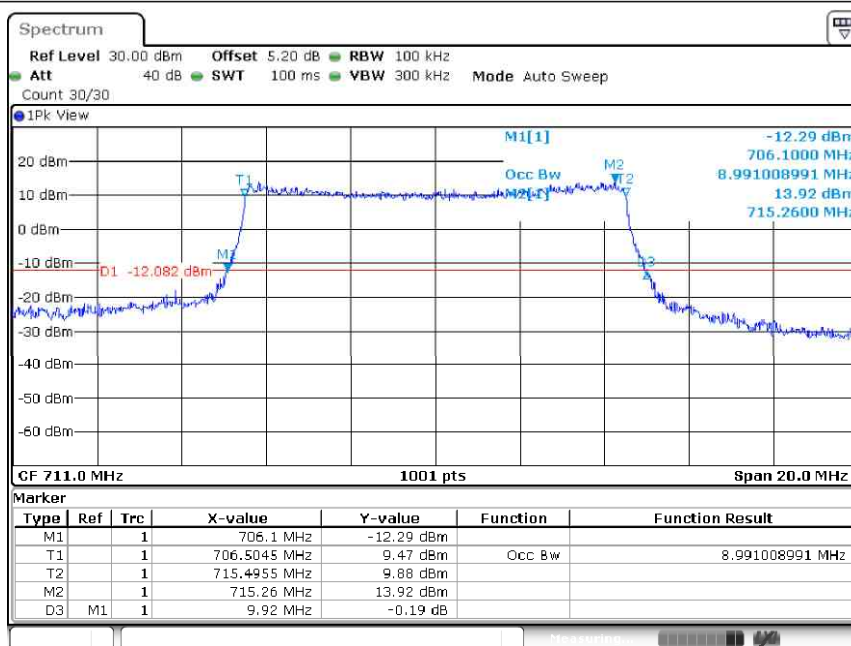


Band17-10MHz-16QAM-23790-50RB#0-8.991



Date: 10.JUL.2020 14:44:45

Band17-10MHz-16QAM-23800-50RB#0-8.991



Date: 10.JUL.2020 14:45:11



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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	-15.41	PASS
Band17	5MHz	QPSK	23755	25RB#0	-26.80	PASS
Band17	5MHz	QPSK	23825	1RB#24	-14.16	PASS
Band17	5MHz	QPSK	23825	25RB#0	-25.68	PASS
Band17	5MHz	64QAM	23755	1RB#0	-16.46	PASS
Band17	5MHz	64QAM	23755	25RB#0	-29.71	PASS
Band17	5MHz	64QAM	23825	1RB#24	-15.12	PASS
Band17	5MHz	64QAM	23825	25RB#0	-27.45	PASS
Band17	5MHz	16QAM	23755	1RB#0	-15.92	PASS
Band17	5MHz	16QAM	23755	25RB#0	-27.82	PASS
Band17	5MHz	16QAM	23825	1RB#24	-13.93	PASS
Band17	5MHz	16QAM	23825	25RB#0	-26.20	PASS
Band17	10MHz	QPSK	23780	1RB#0	-17.81	PASS
Band17	10MHz	QPSK	23780	50RB#0	-28.21	PASS
Band17	10MHz	QPSK	23800	1RB#49	-16.61	PASS
Band17	10MHz	QPSK	23800	50RB#0	-27.65	PASS
Band17	10MHz	64QAM	23780	1RB#0	-18.94	PASS
Band17	10MHz	64QAM	23780	50RB#0	-32.38	PASS
Band17	10MHz	64QAM	23800	1RB#49	-18.25	PASS
Band17	10MHz	64QAM	23800	50RB#0	-30.94	PASS
Band17	10MHz	16QAM	23780	1RB#0	-17.46	PASS
Band17	10MHz	16QAM	23780	50RB#0	-29.88	PASS
Band17	10MHz	16QAM	23800	1RB#49	-17.79	PASS
Band17	10MHz	16QAM	23800	50RB#0	-29.24	PASS



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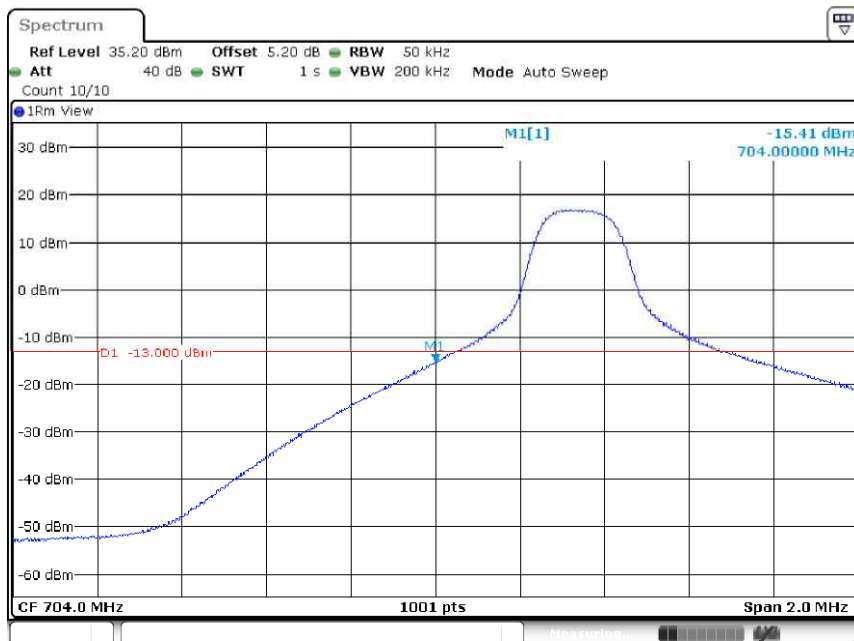
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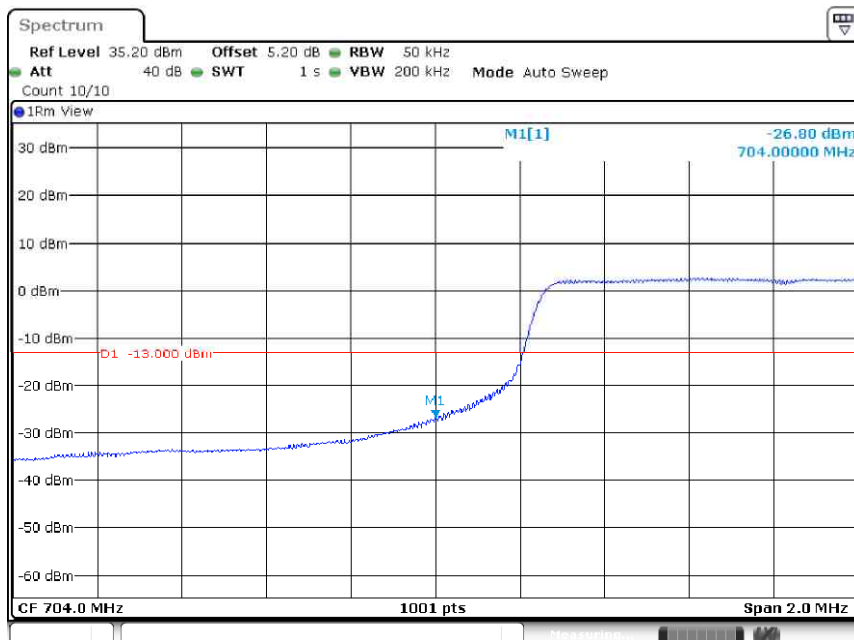
5.2. Test Plots

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



Date: 10.JUL.2020 14:45:36

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



Date: 10.JUL.2020 14:46:17



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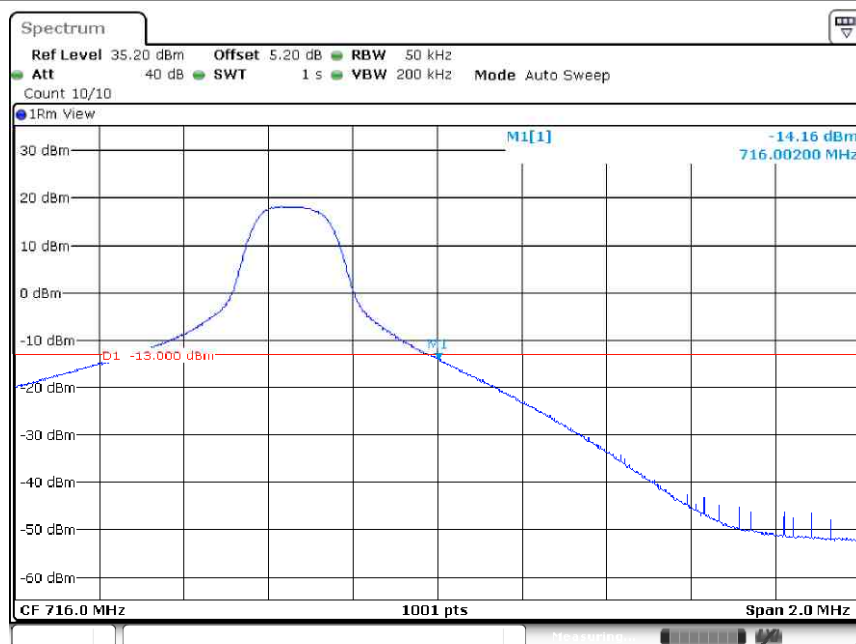
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Band17-5MHz-QPSK-23825-1RB#24



Date: 10.JUL.2020 14:47:03

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



Date: 10.JUL.2020 14:47:44



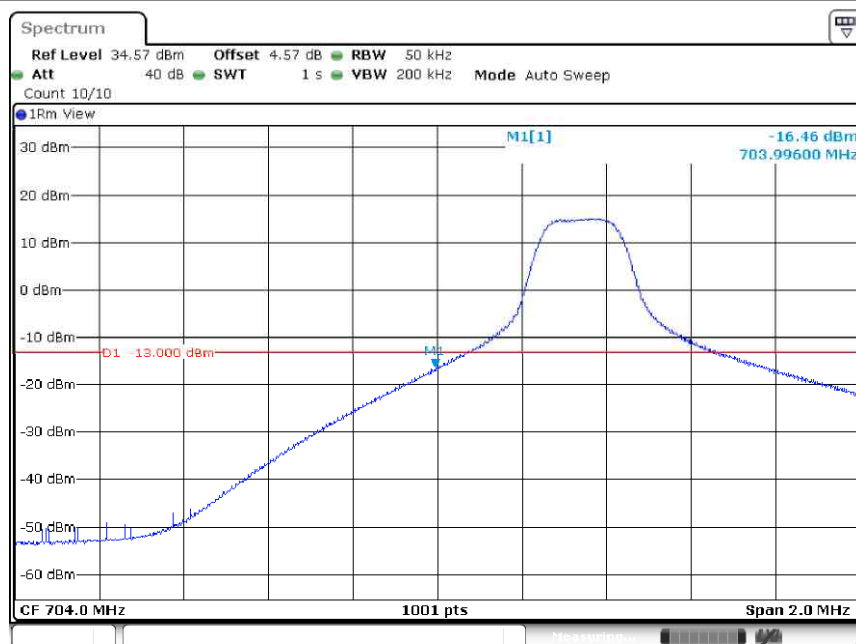
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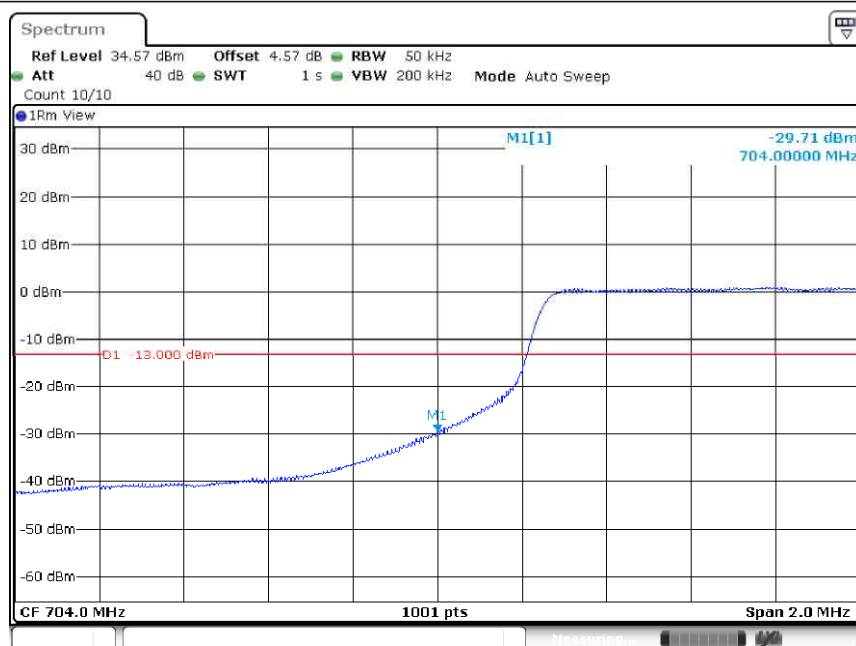


Band17-5MHz-64QAM-23755-1RB#0



Date: 14 JUL 2020 08:39:55

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



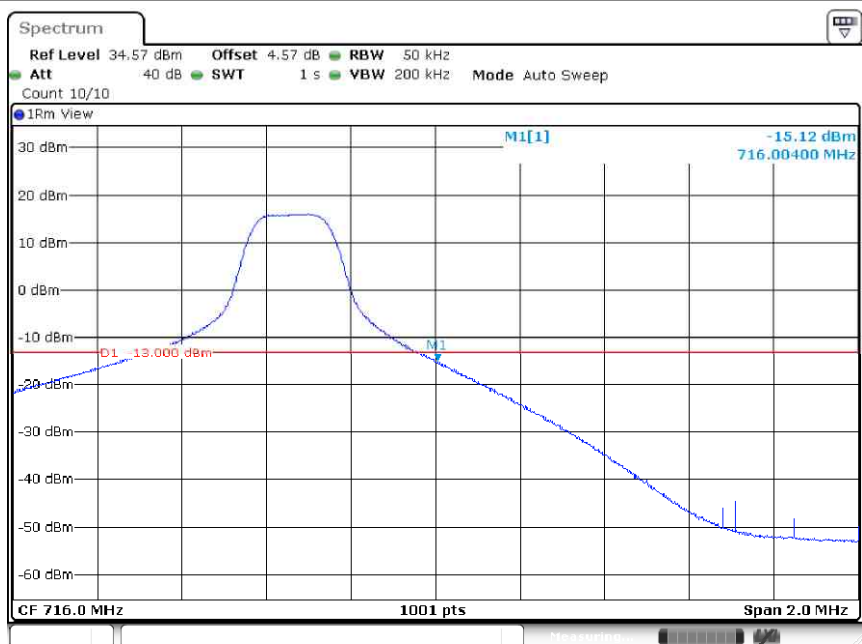
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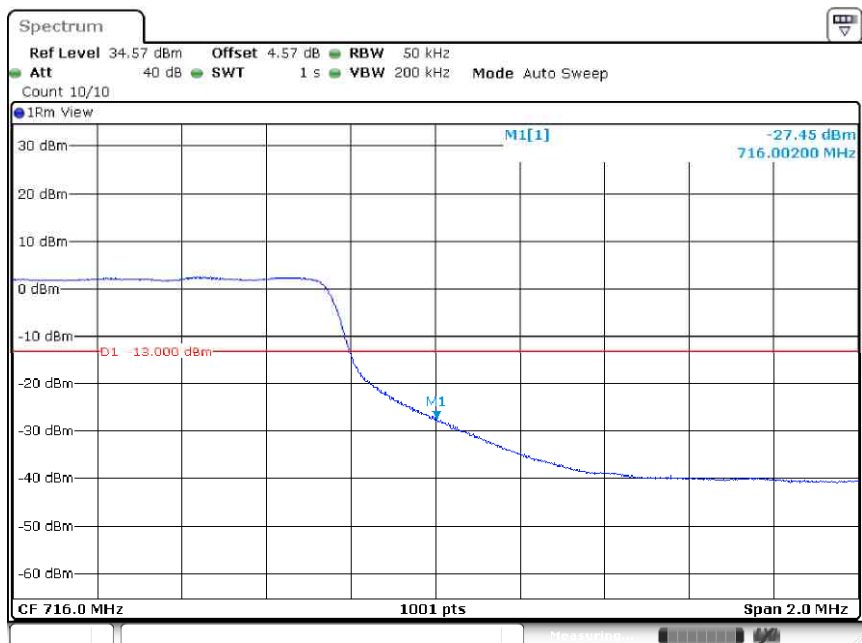


Band17-5MHz-64QAM-23825-1RB#24



Date: 14 JUL 2020 08:40:40

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



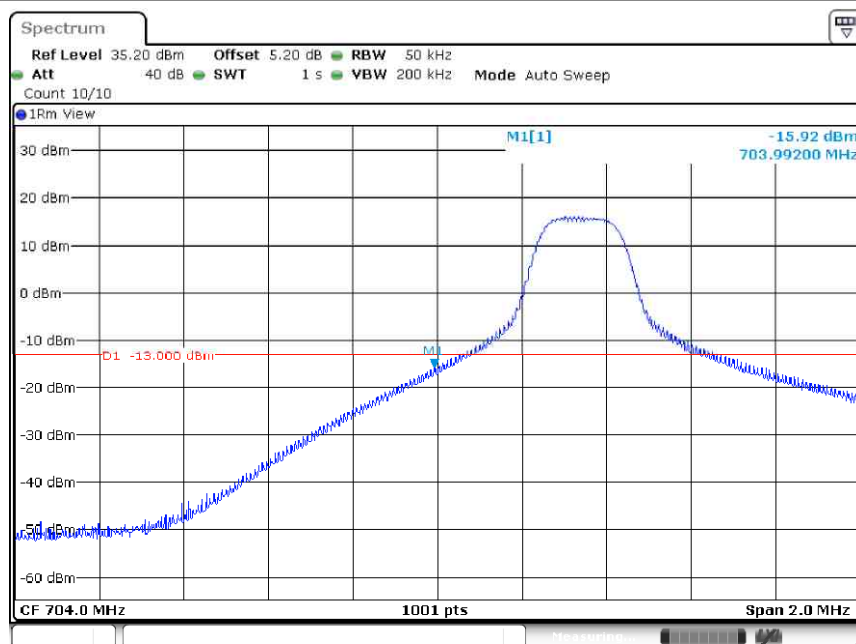
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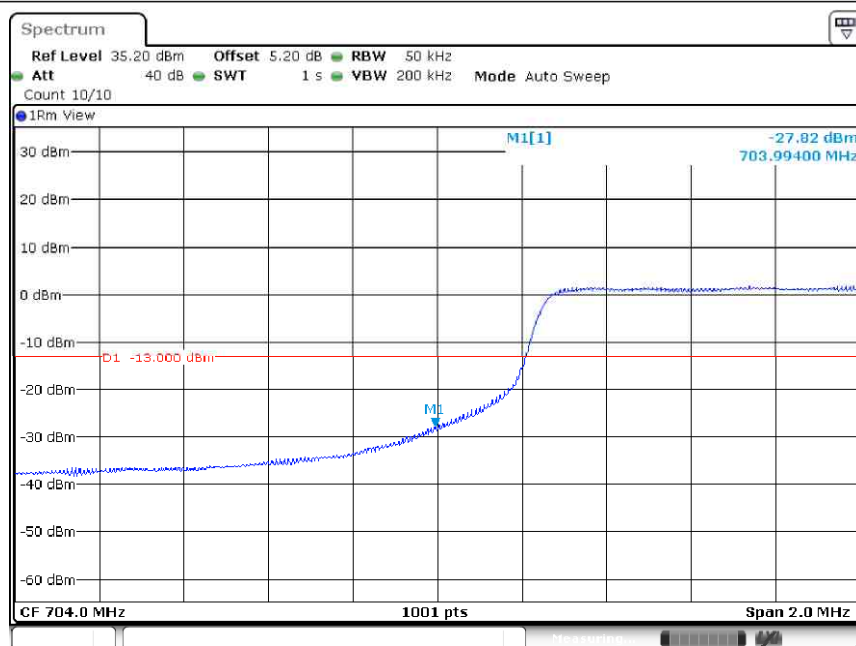


Band17-5MHz-16QAM-23755-1RB#0



Date: 10.JUL.2020 14:45:57

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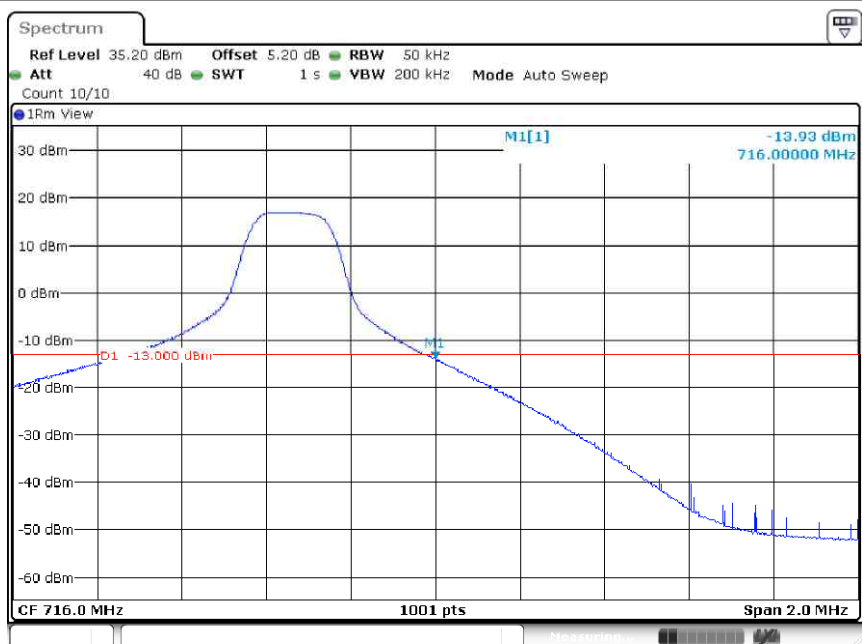
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Date: 10.JUL.2020 14:47:23

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



Date: 10.JUL.2020 14:48:05



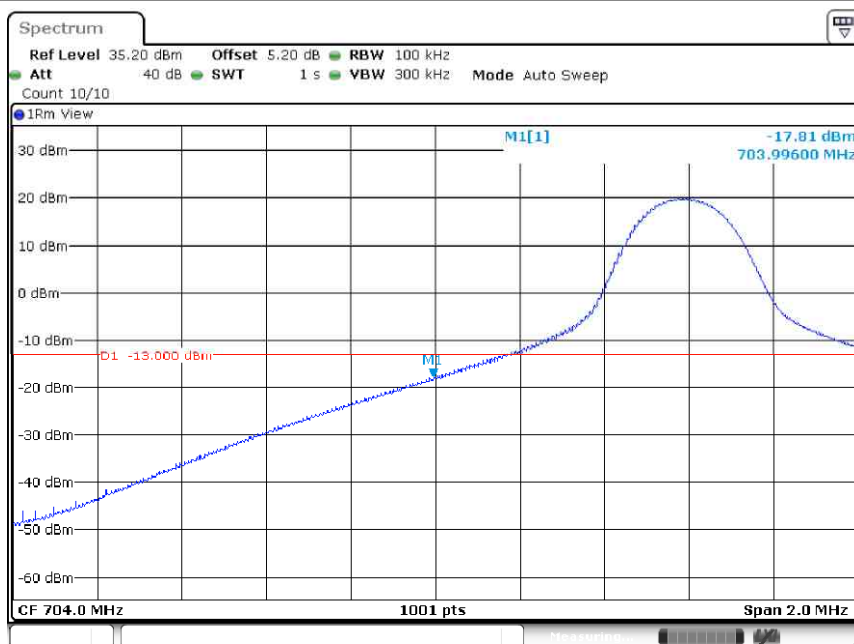
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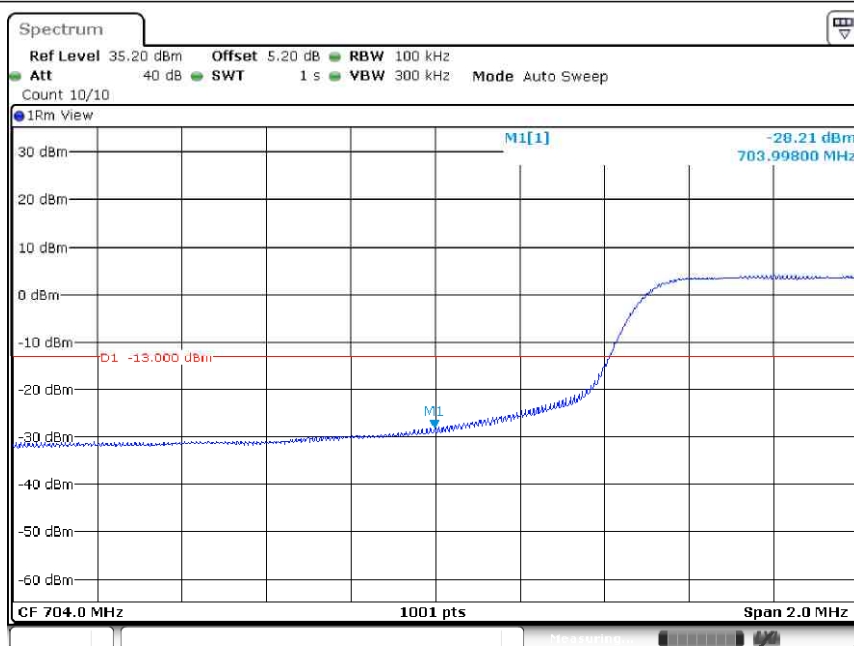


Band17-10MHz-QPSK-23780-1RB#0



Date: 10 JUL 2020 14:48:30

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



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



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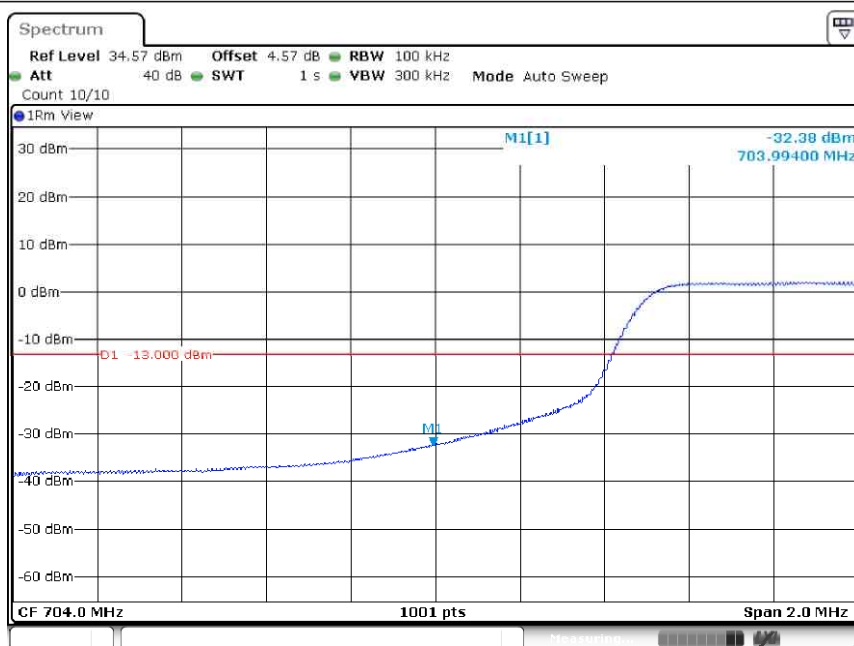


Band17-10MHz-64QAM-23780-1RB#0



Date: 14 JUL 2020 08:41:26

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Date: 14 JUL 2020 08:41:47



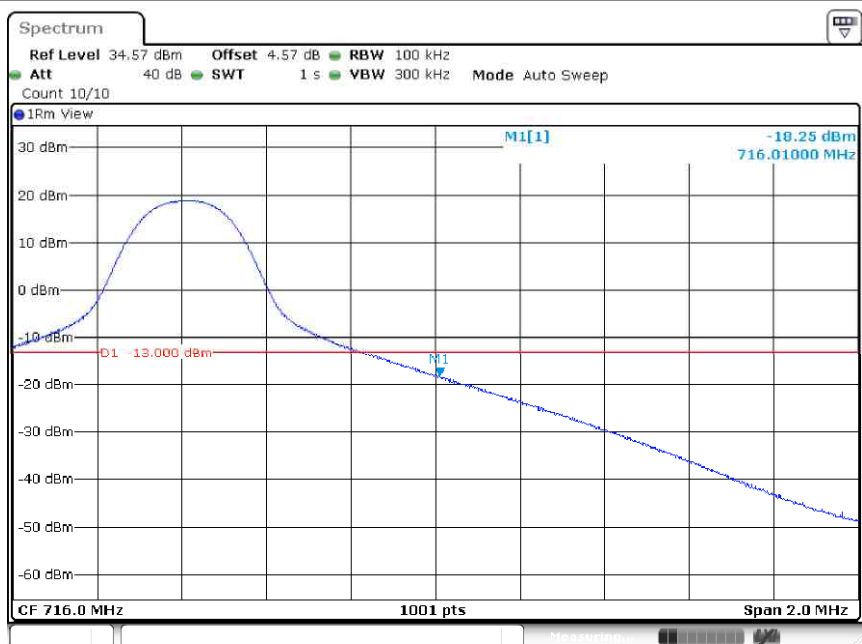
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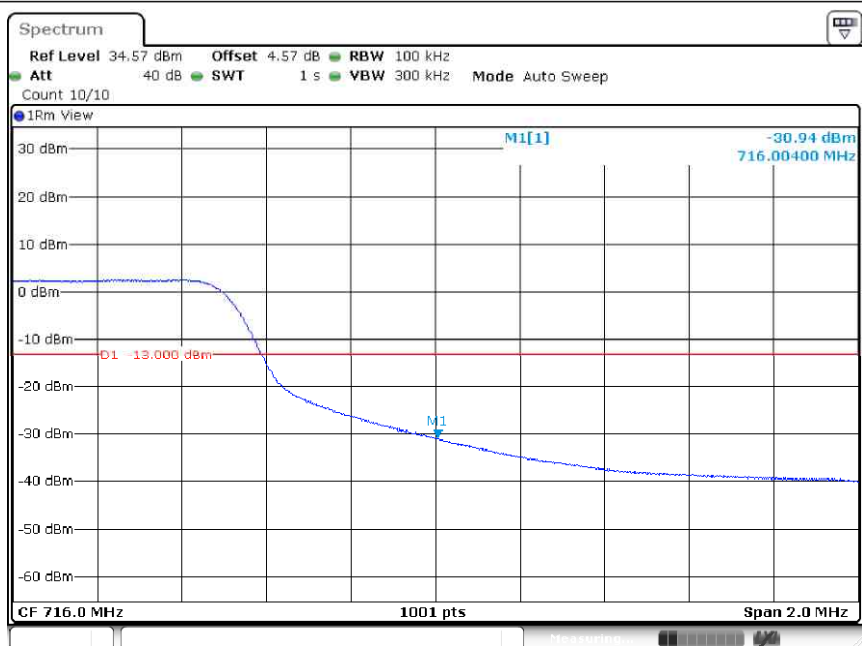


Band17-10MHz-64QAM-23800-1RB#49



Date: 14 JUL 2020 08:42:12

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



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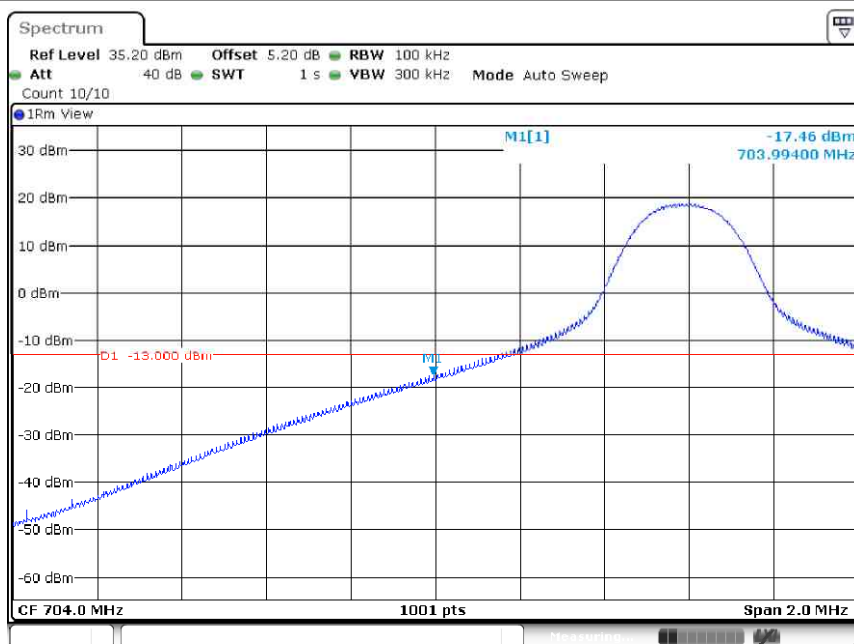
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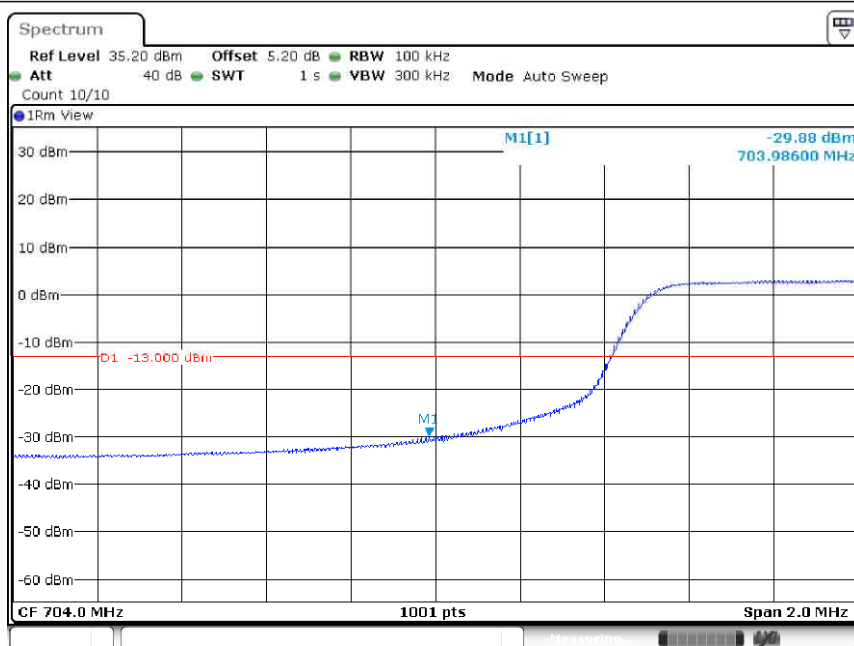


Band17-10MHz-16QAM-23780-1RB#0



Date: 10 JUL 2020 14:48:50

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



Date: 10 JUL 2020 14:49:31



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



Date: 10.JUL.2020 14:50:17

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



Date: 10.JUL.2020 14:50:58



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6. Spurious Emission at Antenna Terminal

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



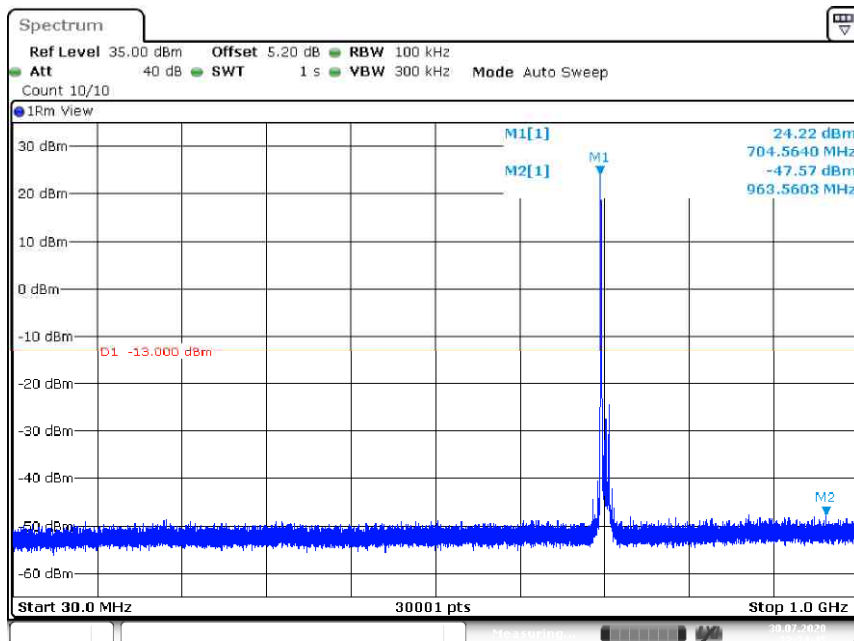
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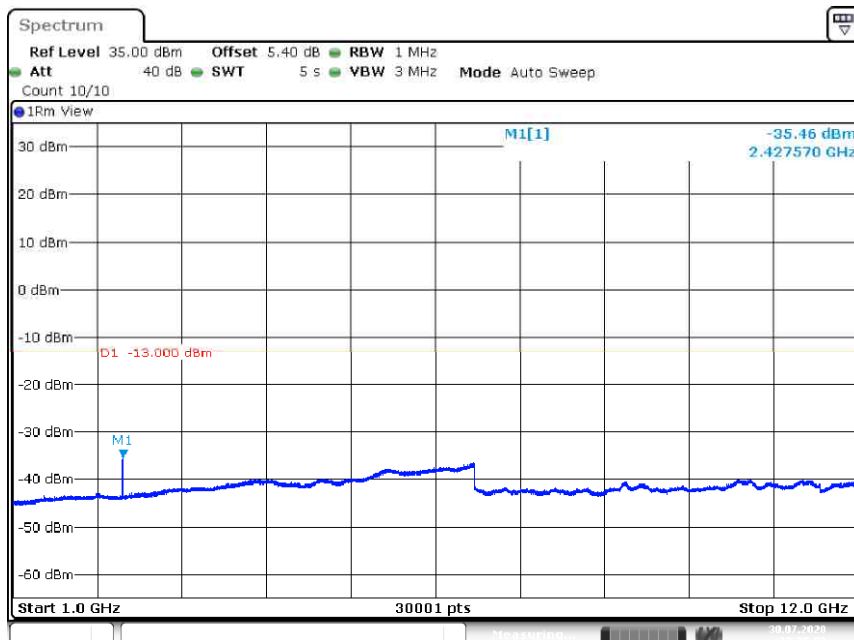
6.1. Test Plots

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



Date: 30.JUL.2020 23:24:45

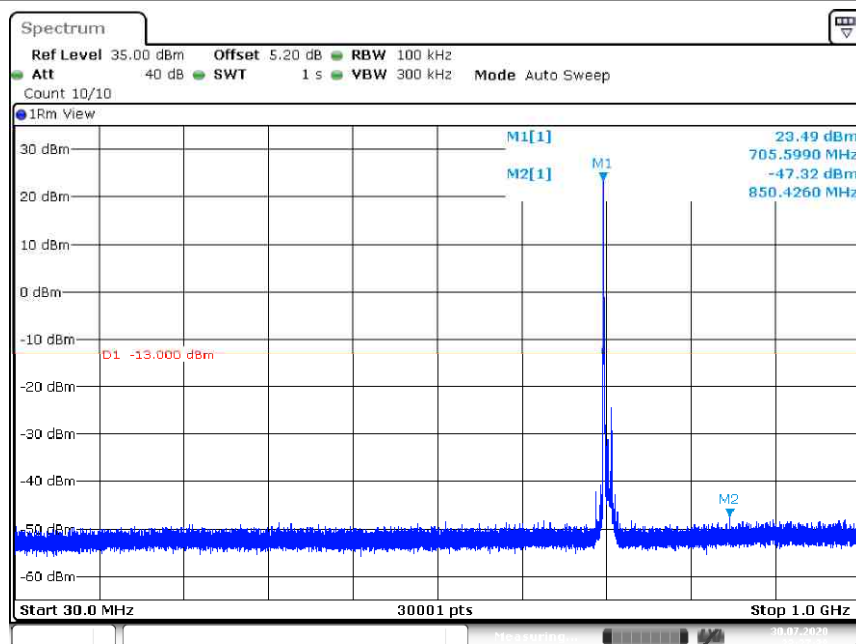
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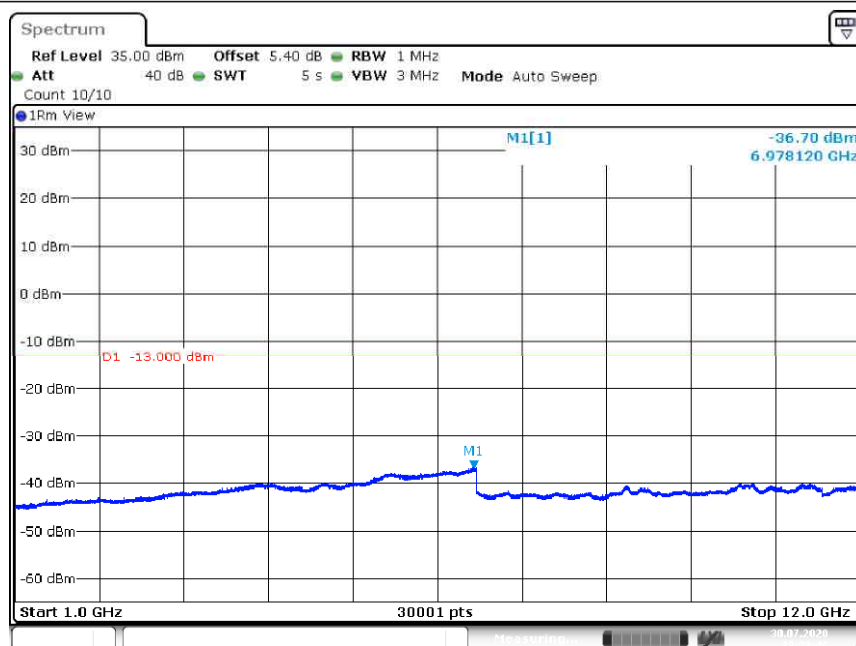


Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 30 JUL 2020 23:27:39

Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz



Date: 30 JUL 2020 23:28:46



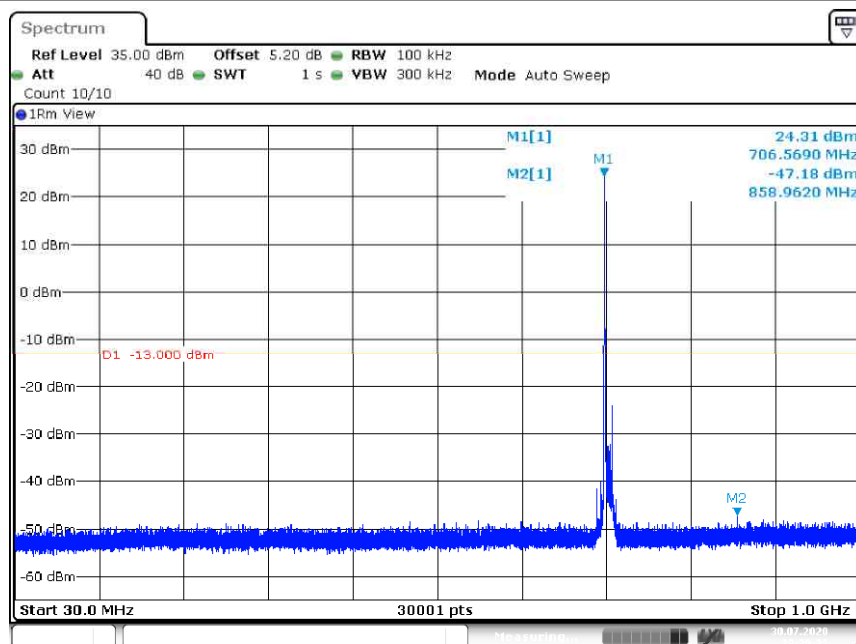
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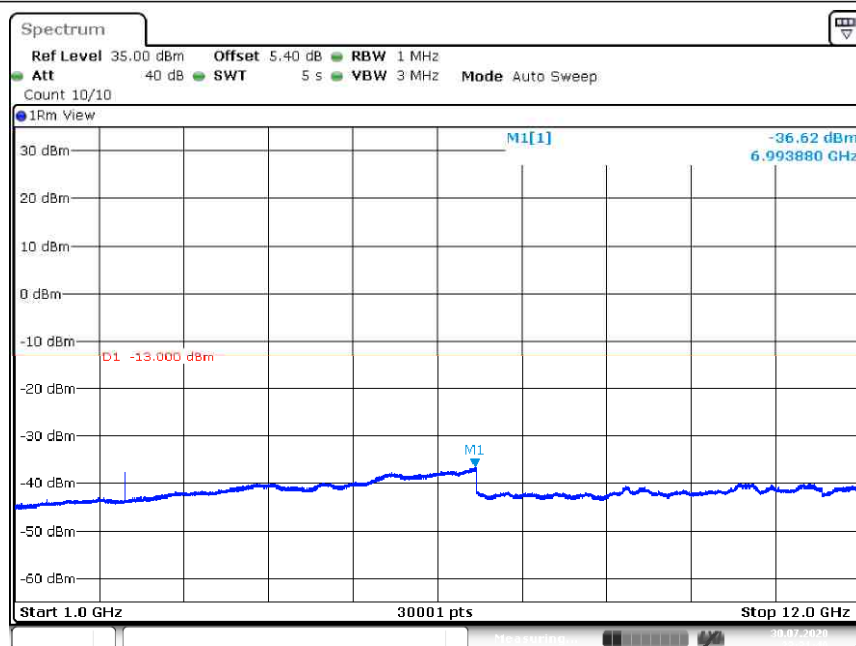
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Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 30 JUL 2020 23:30:33

Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~12000MHz



Date: 30 JUL 2020 23:31:40



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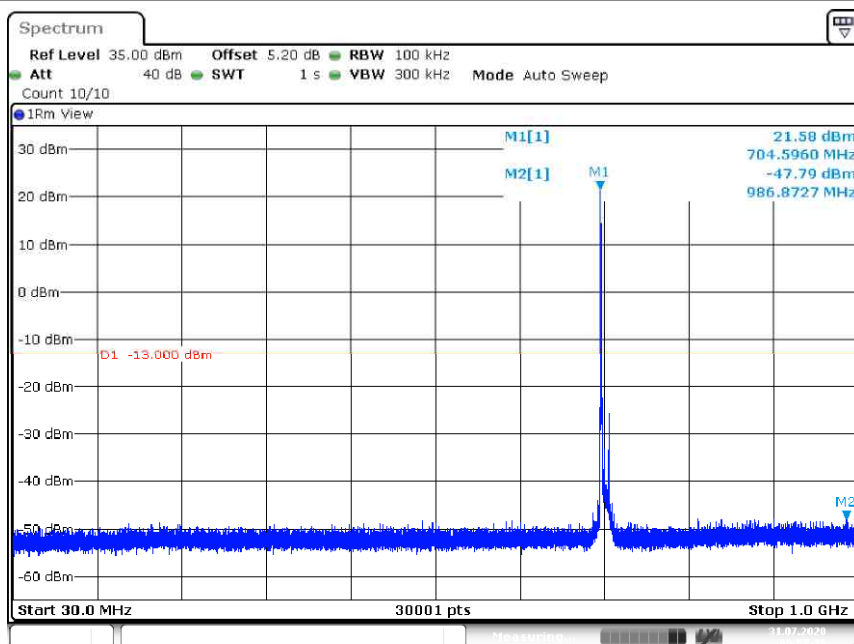
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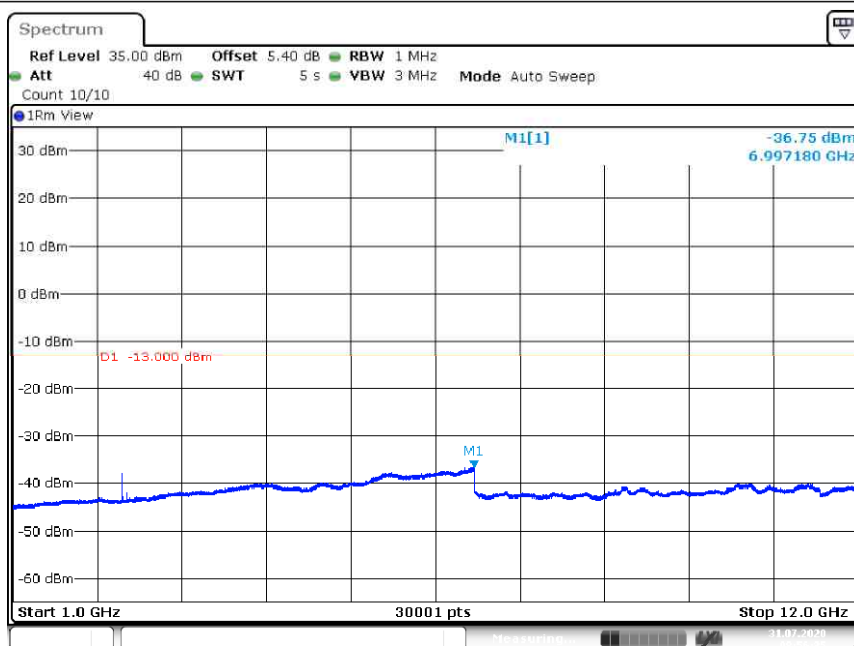


Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 31.JUL.2020 08:55:28

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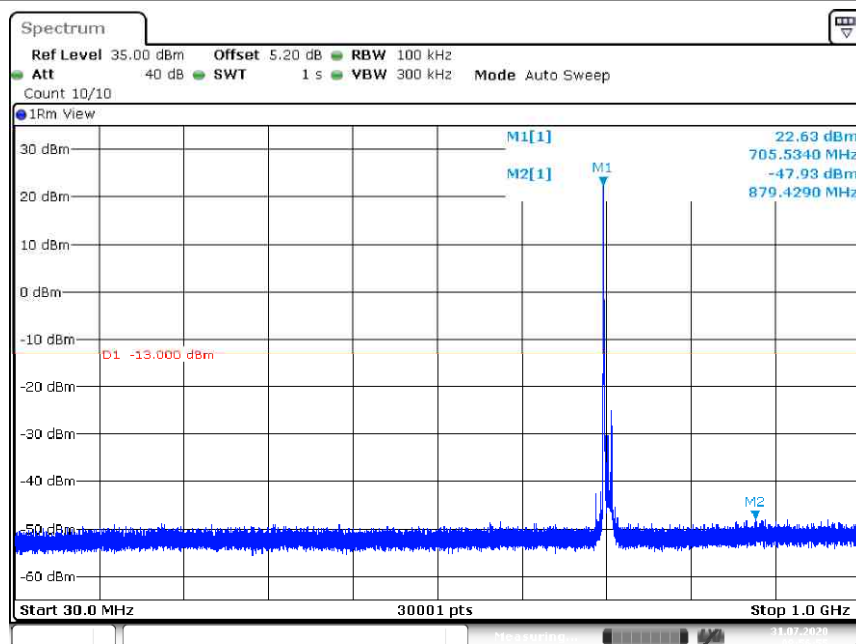


Date: 31.JUL.2020 08:56:36



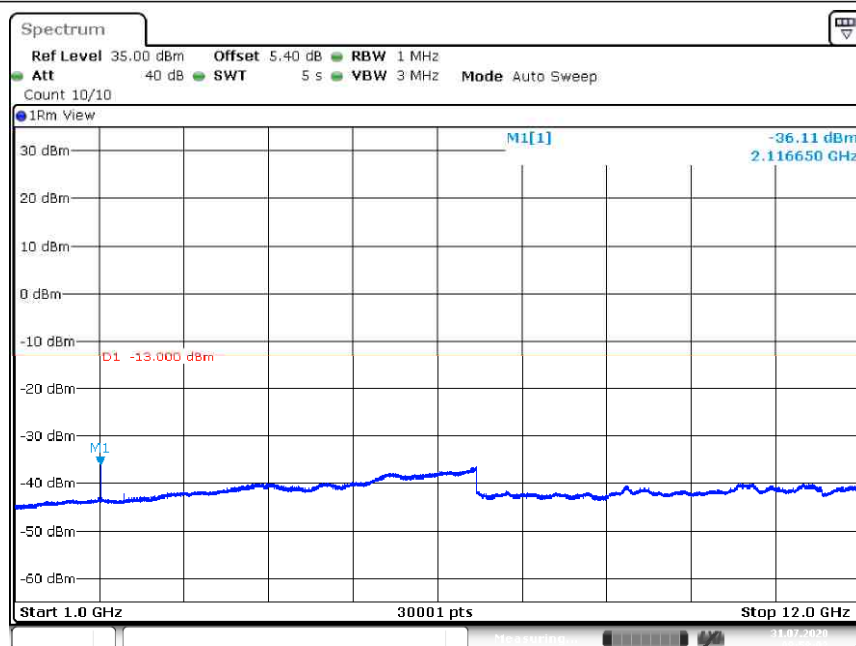


Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



Date: 31.JUL.2020 08:56:56

Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz



Date: 31.JUL.2020 08:58:03



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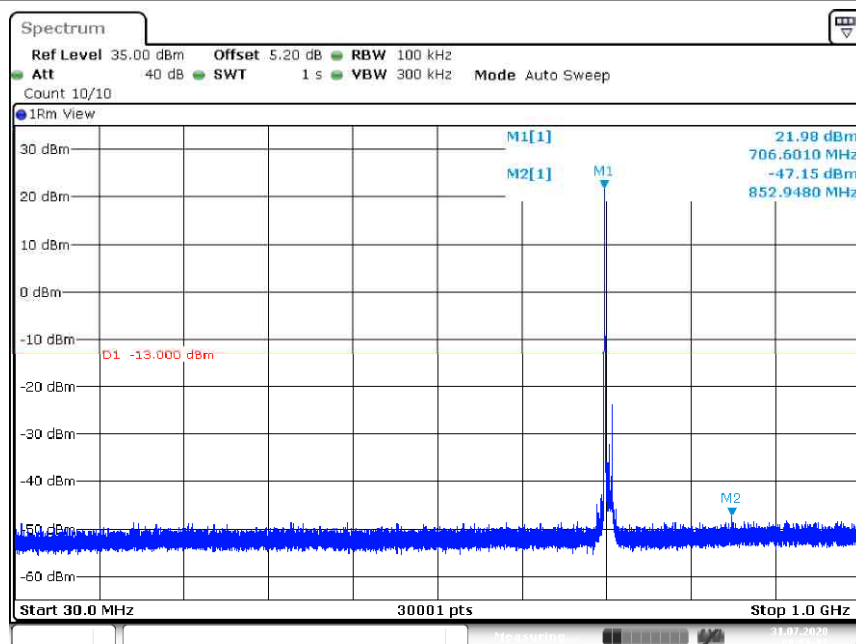
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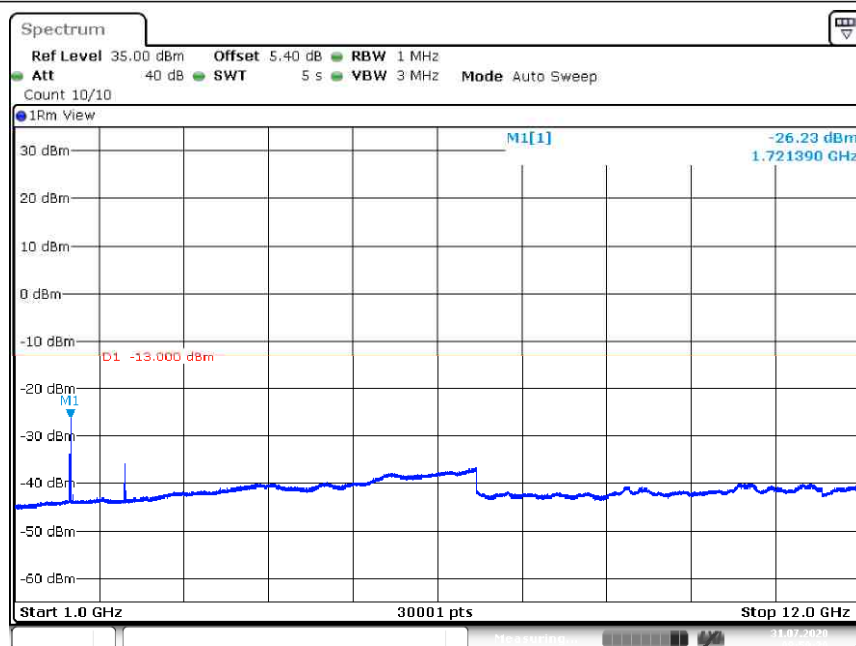


Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



Date: 31.JUL.2020 08:58:23

Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz



Date: 31.JUL.2020 08:59:30



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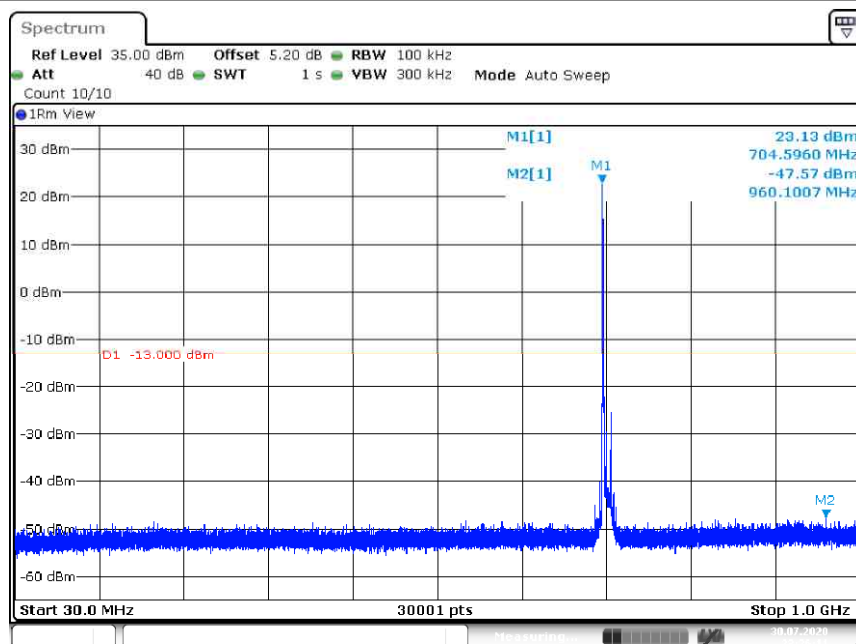
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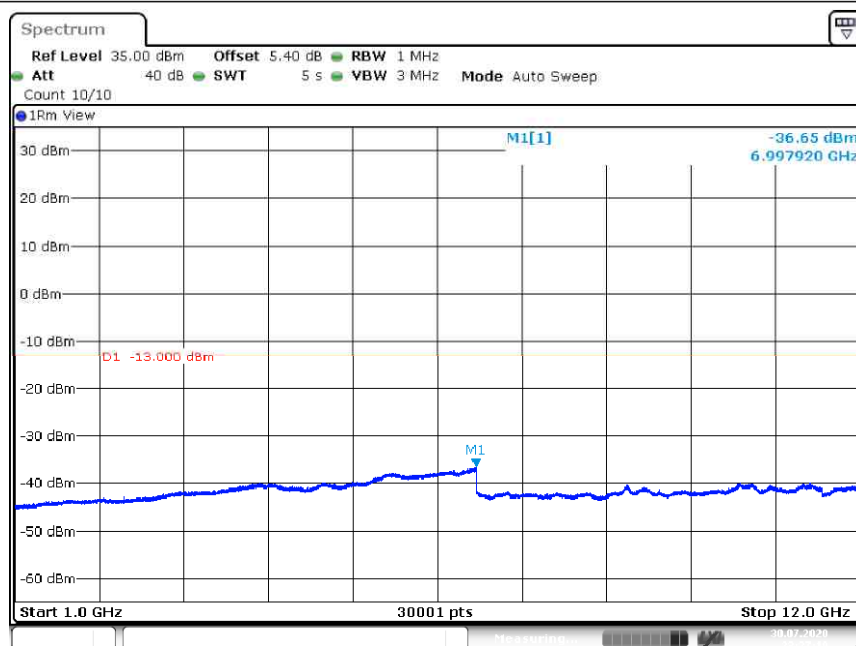


Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



Date: 30.JUL.2020 23:26:12

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Date: 30.JUL.2020 23:27:19

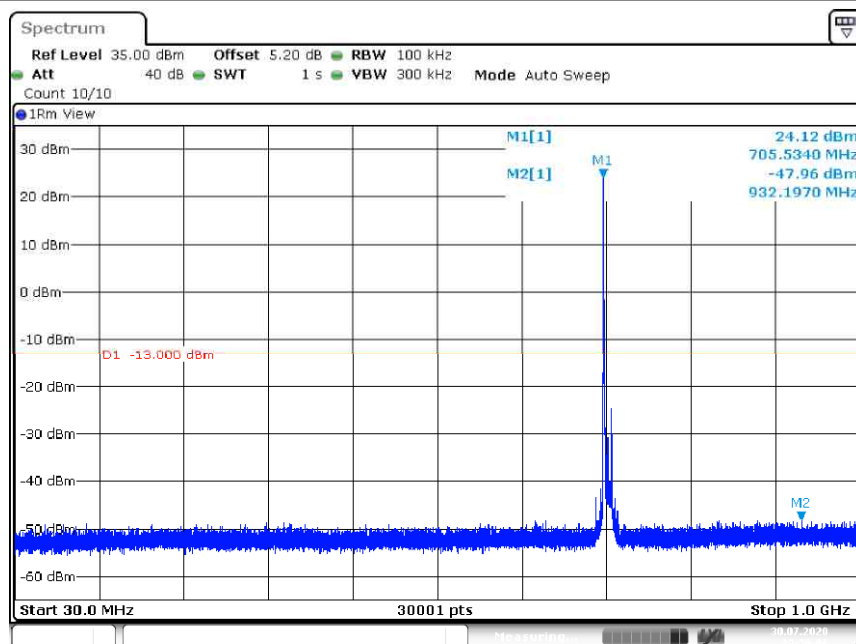


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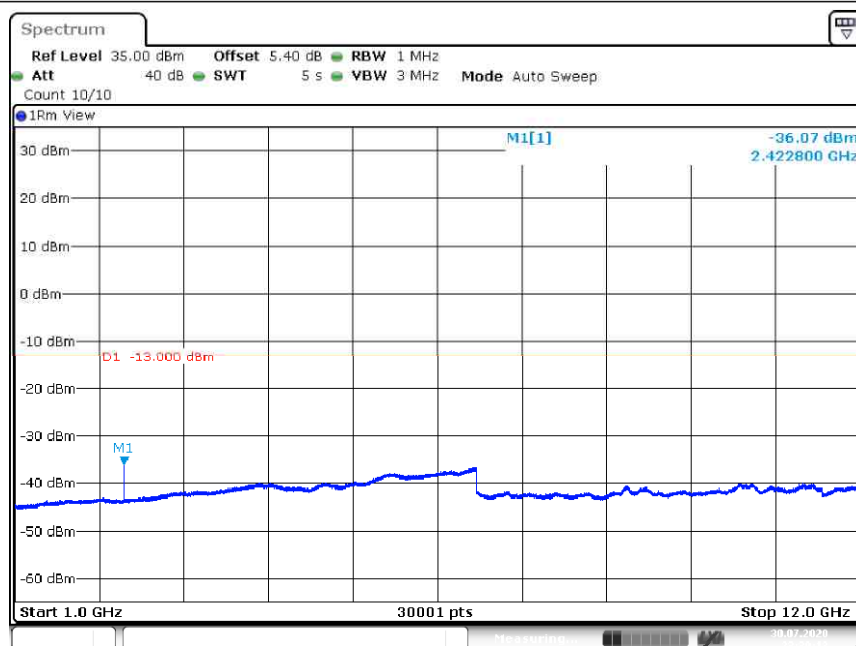


Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Date: 30.JUL.2020 23:29:06

Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz



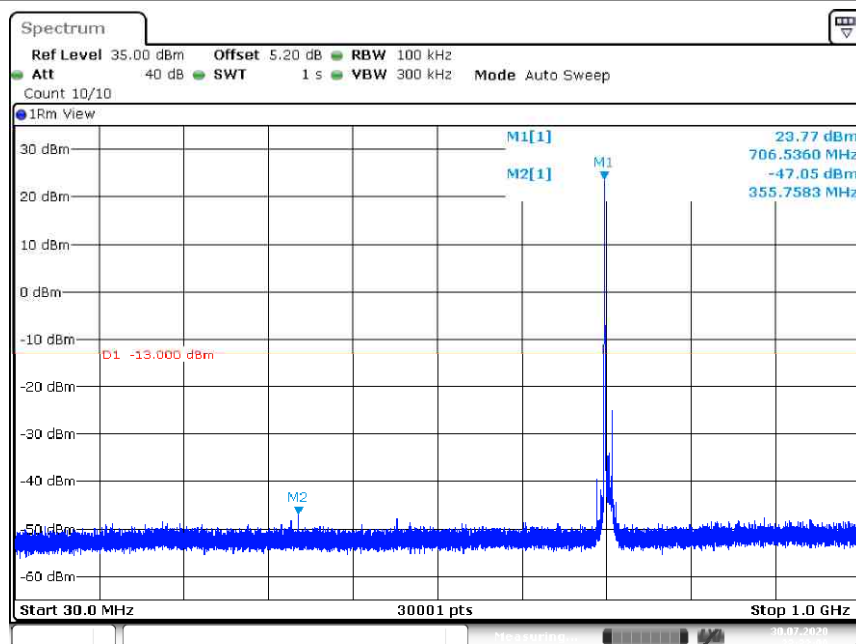
Date: 30.JUL.2020 23:30:13



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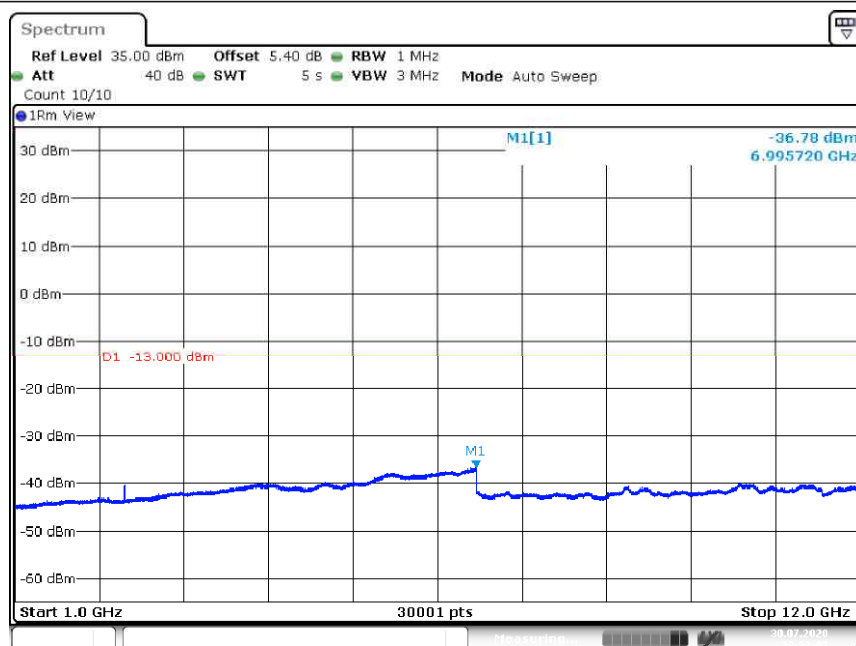
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Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 30 JUL 2020 23:32:00

Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~12000MHz



Date: 30 JUL 2020 23:33:07



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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
116.2373	-65.47	-13.00	52.47	Vertical
537.2869	-67.25	-13.00	54.25	Vertical
1408.8818	-57.68	-13.00	44.68	Vertical
2954.7910	-57.09	-13.00	44.09	Vertical
14498.2599	-47.61	-13.00	34.61	Vertical
17998.8000	-40.27	-13.00	27.27	Vertical
41.5921	-64.68	-13.00	51.68	Horizontal
243.3137	-68.69	-13.00	55.69	Horizontal
565.0788	-65.41	-13.00	52.41	Horizontal
1409.2819	-54.07	-13.00	41.07	Horizontal
7346.5739	-56.30	-13.00	43.30	Horizontal
16388.3355	-44.09	-13.00	31.09	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.2512	-71.90	-13.00	58.90	Vertical
110.5625	-64.63	-13.00	51.63	Vertical
387.1234	-68.62	-13.00	55.62	Vertical
3000.0000	-56.67	-13.00	43.67	Vertical
7364.5746	-56.11	-13.00	43.11	Vertical
17999.4000	-40.15	-13.00	27.15	Vertical
44.5992	-63.93	-13.00	50.93	Horizontal
235.7958	-69.03	-13.00	56.03	Horizontal
519.0500	-65.89	-13.00	52.89	Horizontal
1410.8822	-59.81	-13.00	46.81	Horizontal
7485.1794	-56.40	-13.00	43.40	Horizontal
16399.1360	-43.93	-13.00	30.93	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.7080	-65.11	-13.00	52.11	Vertical
494.3622	-66.73	-13.00	53.73	Vertical
1412.8826	-59.28	-13.00	46.28	Vertical
2699.1398	-57.40	-13.00	44.40	Vertical
14476.6591	-47.79	-13.00	34.79	Vertical
17929.7972	-41.71	-13.00	28.71	Vertical
40.7190	-64.27	-13.00	51.27	Horizontal
467.1524	-66.65	-13.00	53.65	Horizontal
1412.8826	-52.95	-13.00	39.95	Horizontal
2700.7401	-56.11	-13.00	43.11	Horizontal
9348.8540	-52.68	-13.00	39.68	Horizontal
16402.1361	-43.79	-13.00	30.79	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	-6.20	-0.008745	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-4.70	-0.006629	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-7.80	-0.011001	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.80	-0.006761	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-6.50	-0.009155	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-11.30	-0.015915	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-5.50	-0.007736	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-6.60	-0.009283	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-8.10	-0.011392	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-4.50	-0.006347	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-9.60	-0.013521	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-11.90	-0.016761	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-6.50	-0.009168	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-9.50	-0.013399	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-5.50	-0.007757	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-6.40	-0.009014	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-4.60	-0.006479	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-4.70	-0.006610	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-9.20	-0.012940	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-5.80	-0.008158	±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	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-4.16	-0.005867	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-5.60	-0.007898	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-1.60	-0.002257	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-10.70	-0.015092	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-10.10	-0.014245	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-10.30	-0.014528	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.50	-0.004930	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-5.20	-0.007324	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-7.35	-0.010352	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-8.90	-0.012535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-9.40	-0.013239	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-5.30	-0.007465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-8.10	-0.011408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.60	-0.010704	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-9.60	-0.013502	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-4.90	-0.006892	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-3.43	-0.004824	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-6.90	-0.009705	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-7.60	-0.010689	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-11.10	-0.015612	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-9.30	-0.013117	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-4.80	-0.006770	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-5.88	-0.008293	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-4.70	-0.006629	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	-4.40	-0.006206	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-10.70	-0.015092	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-12.70	-0.017913	±2.5	PASS



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Band17	10MHz	64QAM	23780	50RB#0	NV	40	-11.90	-0.016784	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	-4.00	-0.005642	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-4.30	-0.006056	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	-6.41	-0.009028	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-8.70	-0.012254	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-5.10	-0.007183	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	-3.90	-0.005493	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-7.70	-0.010830	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-7.80	-0.010970	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-9.54	-0.013418	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-7.80	-0.010970	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-9.10	-0.012799	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-9.40	-0.013221	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-8.20	-0.011533	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-9.10	-0.012799	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-8.80	-0.012377	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-2.20	-0.003103	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-3.30	-0.004654	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-4.71	-0.006643	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-7.70	-0.010860	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-0.50	-0.000705	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-6.10	-0.008604	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-4.30	-0.006065	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-4.80	-0.006770	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-7.20	-0.010141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-5.80	-0.008169	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-7.27	-0.010239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-8.30	-0.011690	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-7.80	-0.010986	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-5.00	-0.007042	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-5.90	-0.008310	±2.5	PASS



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Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-5.10	-0.007173	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-6.50	-0.009142	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-7.16	-0.010070	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-8.30	-0.011674	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-9.20	-0.012940	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-8.80	-0.012377	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-6.30	-0.008861	±2.5	PASS



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