Appendix B

E-UTRA Band 17

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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.84	18.78	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.82	18.76	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.10	18.04	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.06	18.00	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.05	17.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.88	18.82	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.93	18.87	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.85	17.79	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.09	18.03	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.98	17.92	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.07	19.01	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.78	18.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.90	18.84	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.17	18.11	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.02	17.96	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.96	17.90	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.97	17.91	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.19	18.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.16	18.10	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.47	17.41	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.93	16.87	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.91	16.85	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.92	16.86	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.09	17.03	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.99	17.93	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.76	17.70	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.86	16.80	34.77	PASS

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Band17	5MHz	16QAM	23790	12RB#6	21.15	17.09	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.07	17.01	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.87	17.81	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.84	17.78	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.86	16.80	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.84	16.78	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.81	16.75	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.72	16.66	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.12	16.06	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.01	15.95	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.87	16.81	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.93	16.87	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.84	16.78	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	19.79	15.73	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.06	16.00	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.93	15.87	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.00	16.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	20.74	16.68	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.88	16.82	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	19.95	15.89	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	19.96	15.90	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.94	15.88	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.11	19.05	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.23	19.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.40	19.34	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.13	18.07	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.38	18.32	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.32	18.26	34.77	PASS

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Band17	10MHz	QPSK	23790	1RB#0	22.81	18.75	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.14	19.08	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.17	18.11	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.20	18.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.31	18.25	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.27	18.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.85	18.79	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.00	18.94	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.15	18.09	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.12	18.06	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.14	18.08	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.31	18.25	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.05	17.99	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.42	17.36	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.36	17.30	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.45	17.39	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.35	17.29	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.85	17.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.17	18.11	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.89	17.83	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.14	17.08	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.17	17.11	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.25	18.19	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.79	17.73	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.23	17.17	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.26	17.20	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.22	17.16	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.26	17.20	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.02	16.96	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.16	17.10	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.32	17.26	34.77	PASS

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Band17	10MHz	64QAM	23780	25RB#0	20.09	16.03	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.29	16.23	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.73	16.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.13	17.07	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.13	16.07	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.28	16.22	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.80	16.74	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.91	16.85	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.08	16.02	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.26	16.20	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.10	16.04	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.07	16.01	34.77	PASS

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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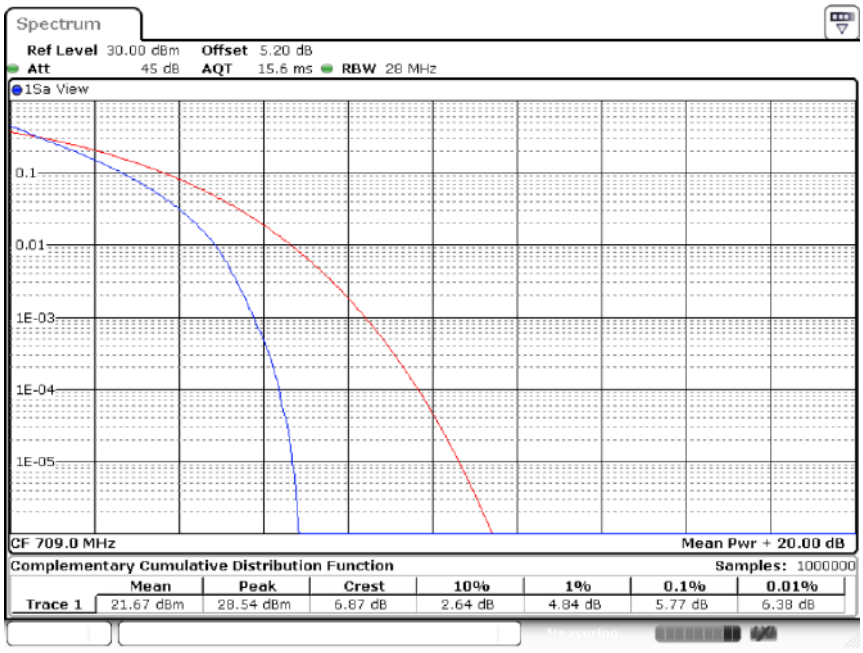
2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.77	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.74	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	7.19	13	PASS

2.2 Test Plots

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



Date: 23.OCT.2020 00:01:53

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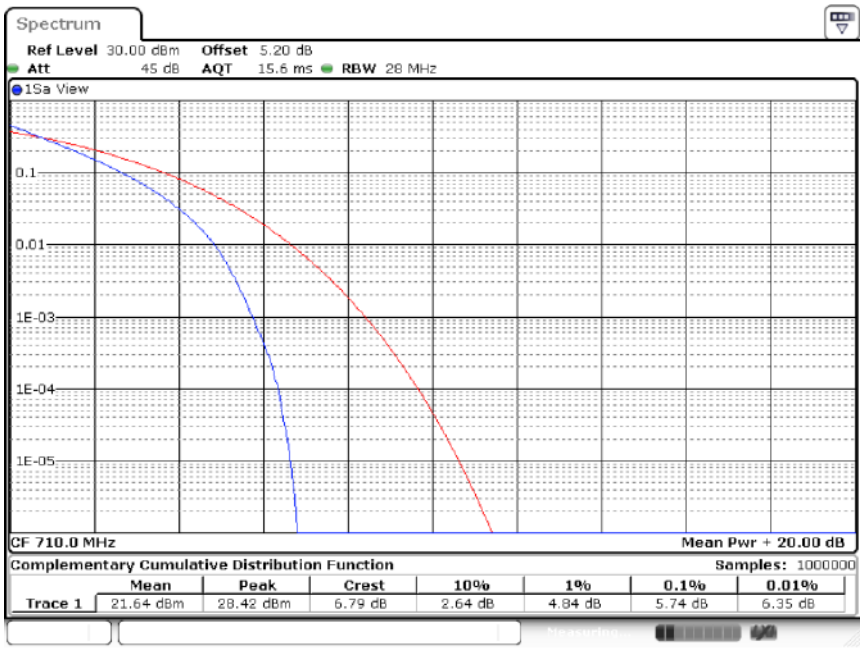
Band17-10MHz-QPSK-23790-50RB#0



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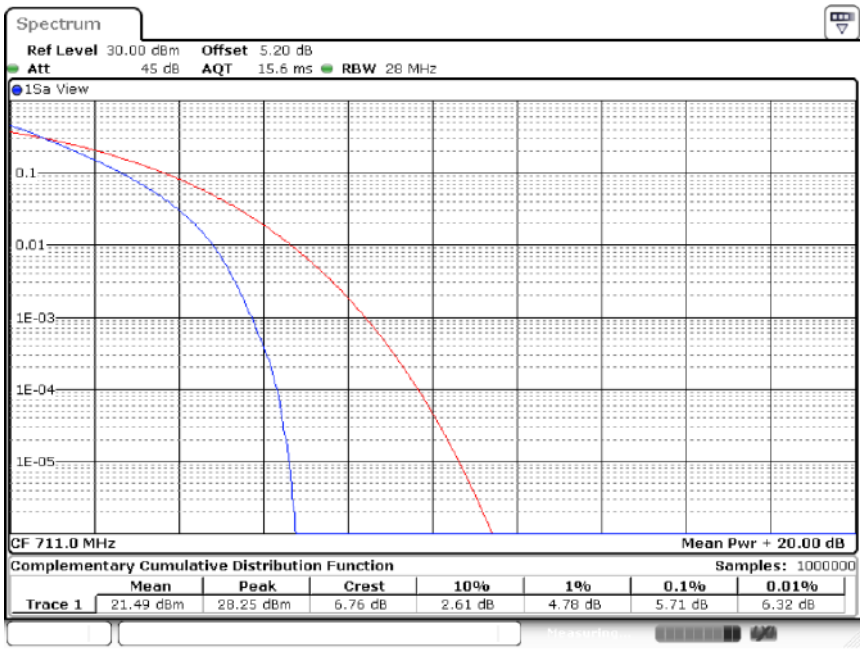
Band17-10MHz-QPSK-23800-50RB#0



Date: 23.OCT.2020 00:02:51

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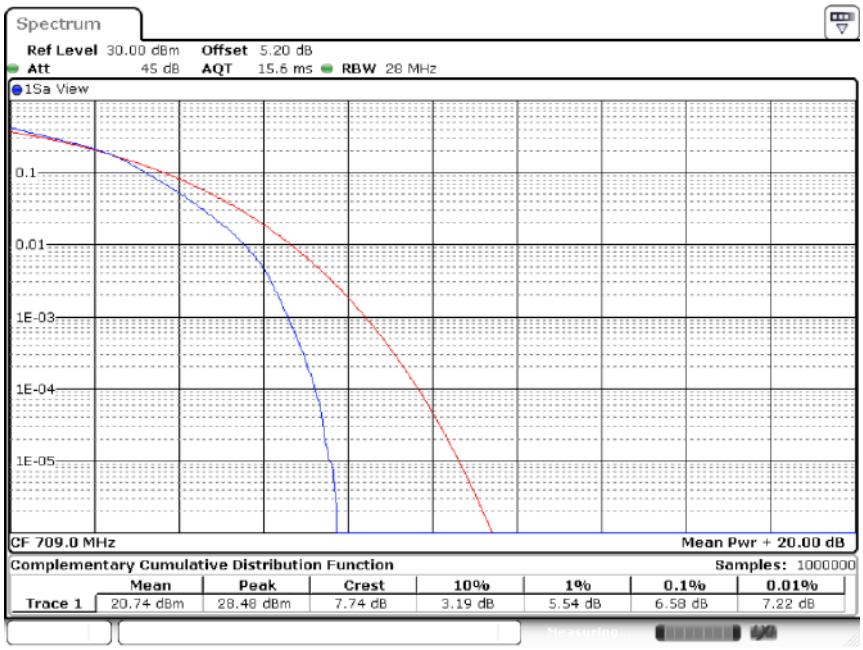
Band17-10MHz-16QAM-23780-50RB#0



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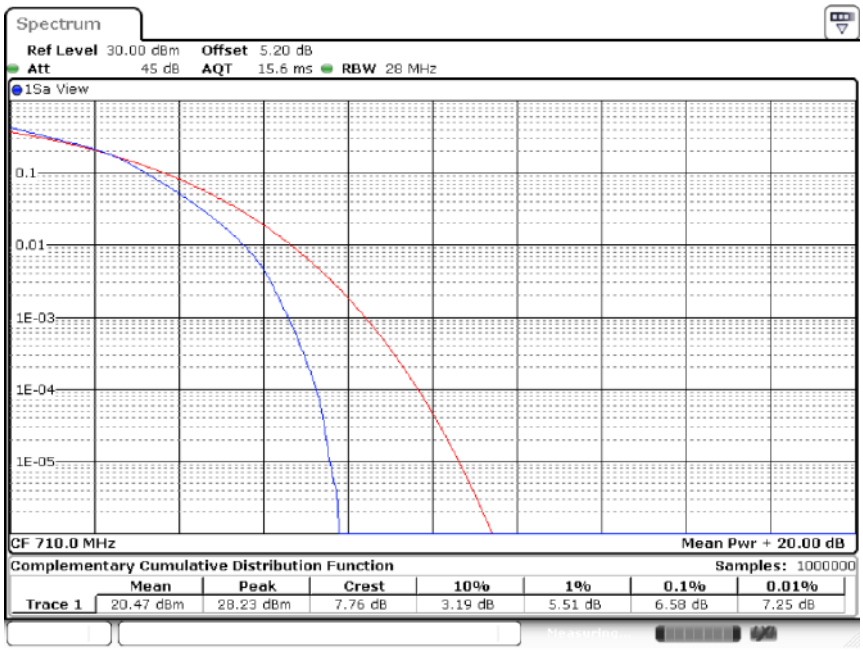
Band17-10MHz-16QAM-23790-50RB#0



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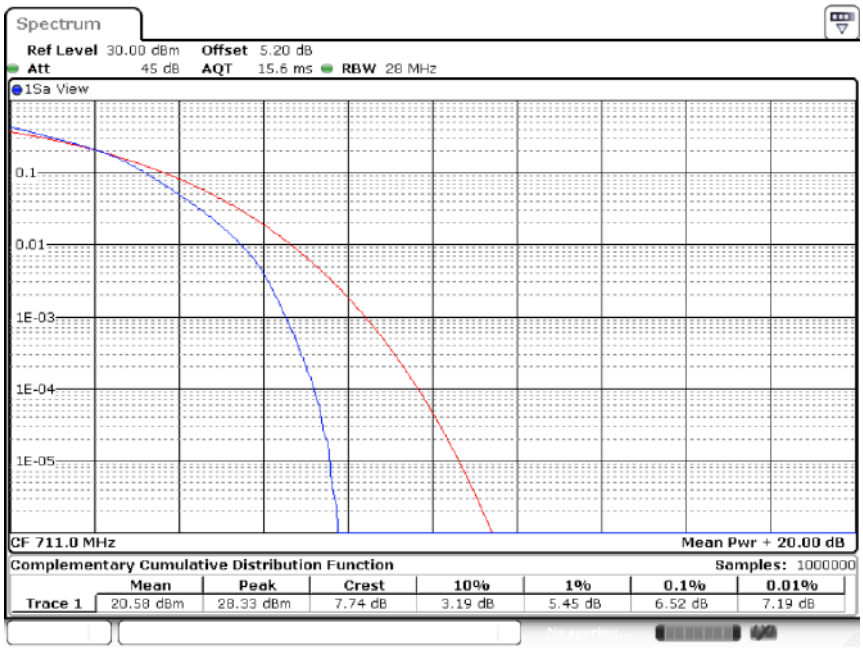
Band17-10MHz-16QAM-23800-50RB#0



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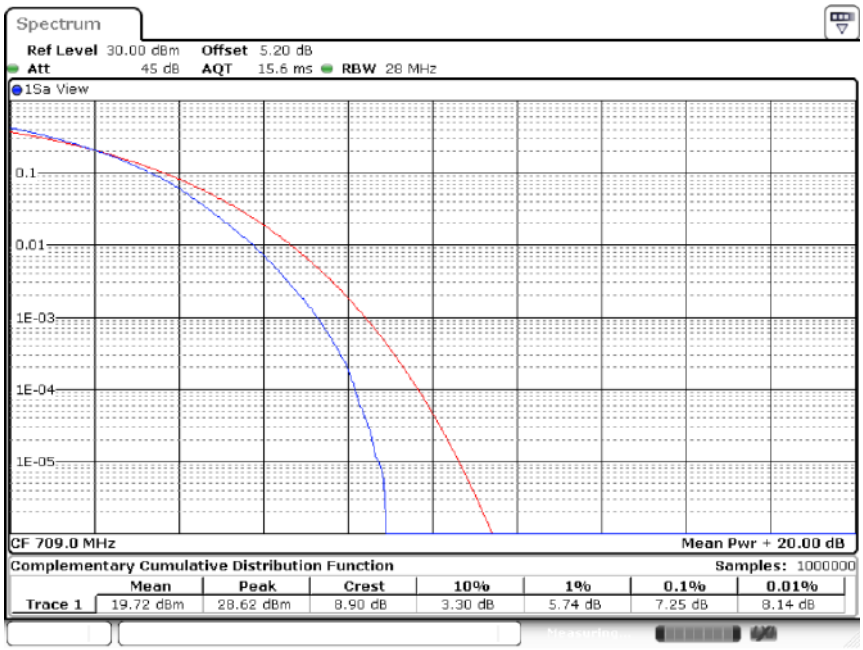
Band17-10MHz-64QAM-23780-50RB#0



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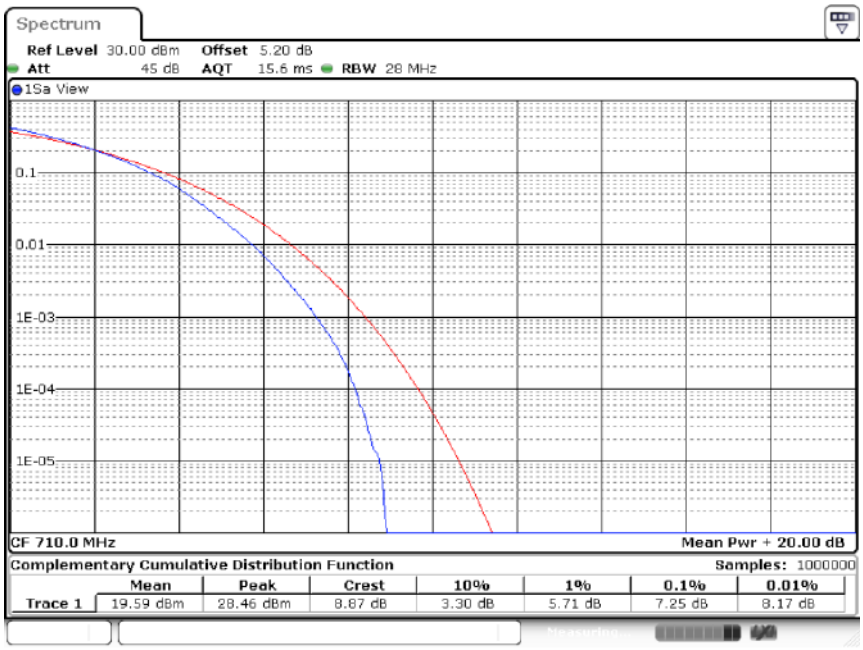
Band17-10MHz-64QAM-23790-50RB#0



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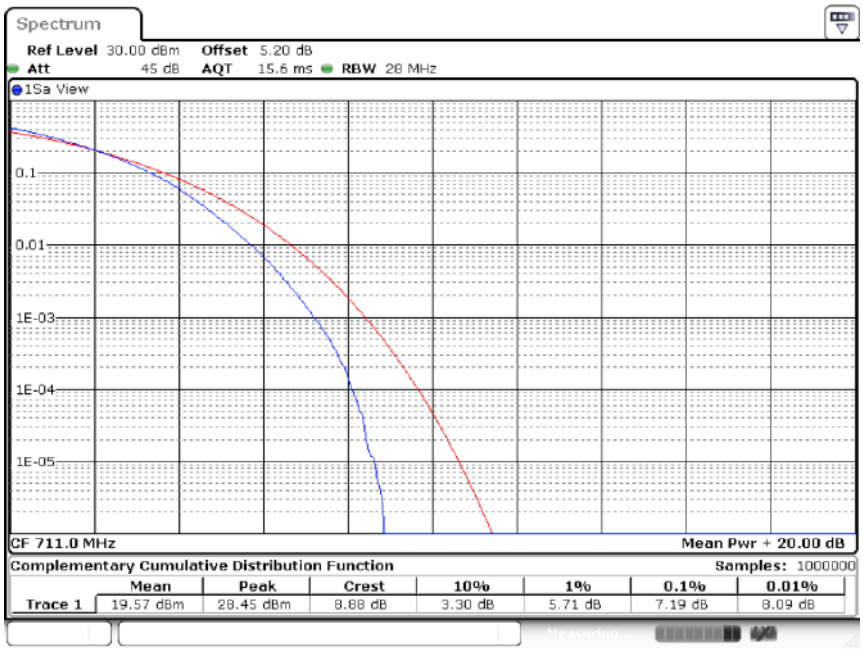
Band17-10MHz-64QAM-23800-50RB#0



Date: 23.OCT.2020 01:15:07

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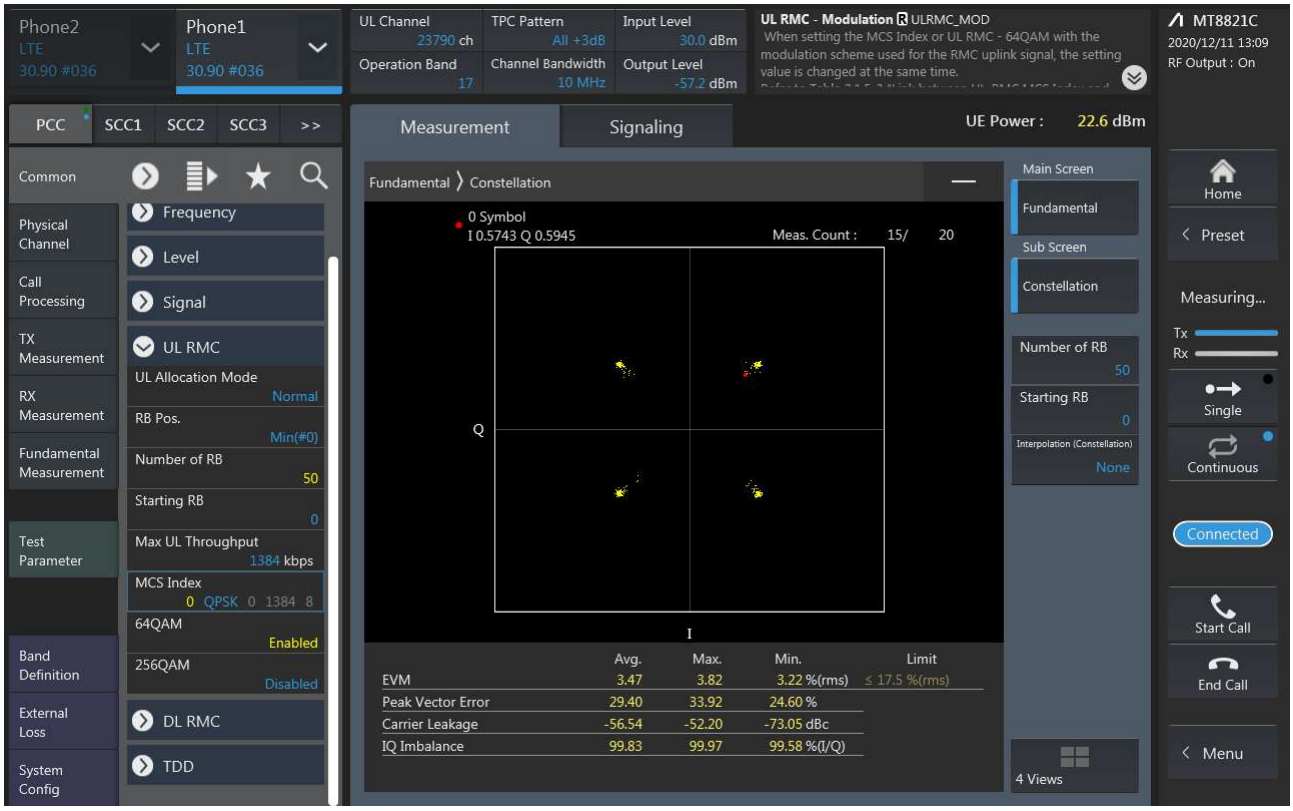
3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

3.1.1 Test Channel = MCH



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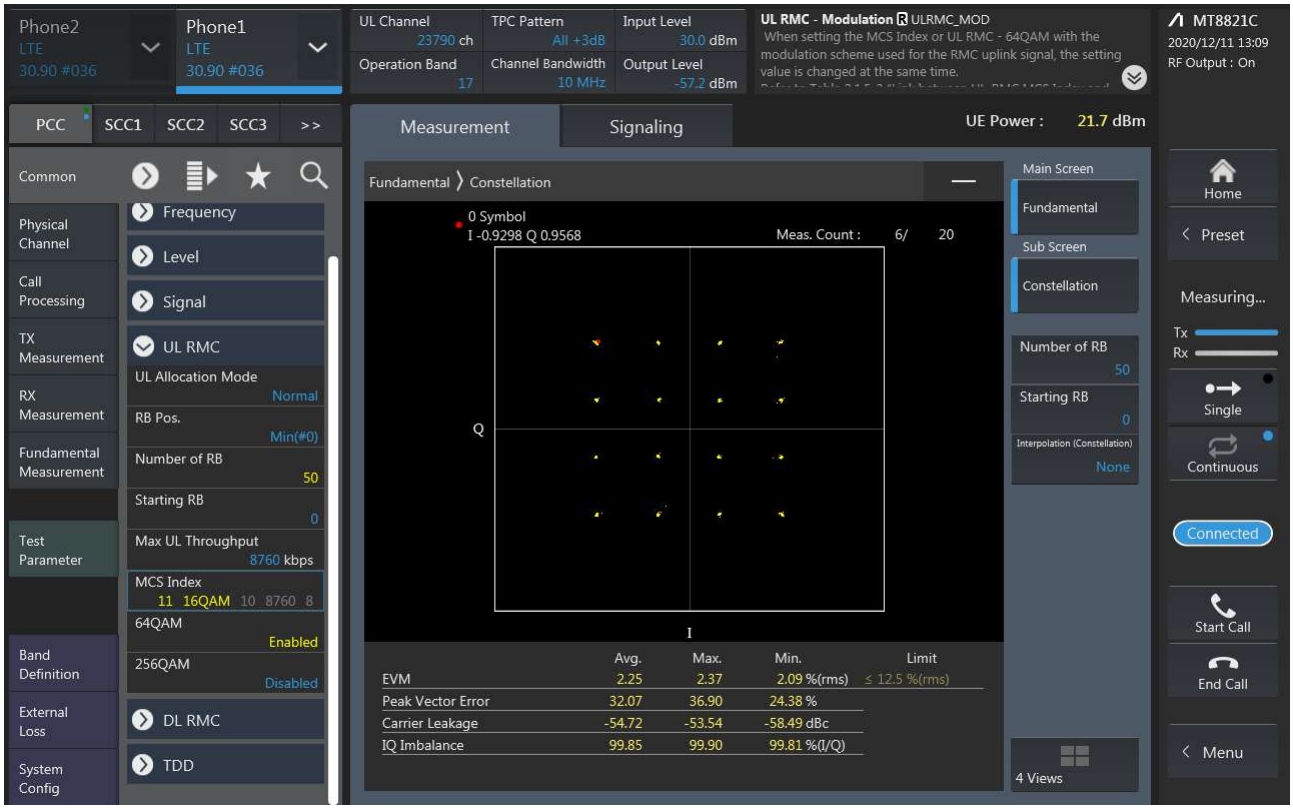
3.2 Test Mode = LTE /TM2 10MHz

3.2.1 Test Channel = MCH



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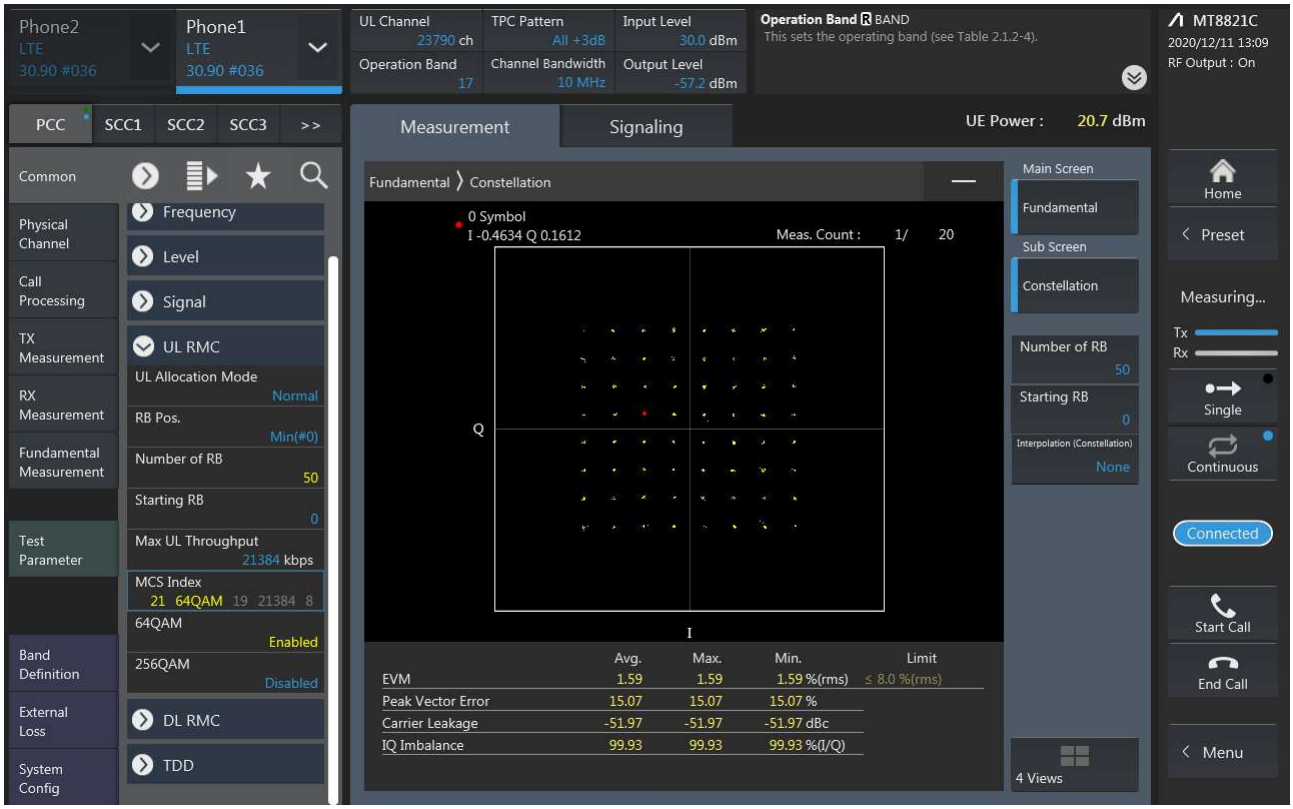
3.3 Test Mode = LTE /TM3 10MHz

3.3.1 Test Channel = MCH



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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	4.930	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.960	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.920	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.496	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.496	4.980	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.940	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.970	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	4.960	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.920	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.918	9.767	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.918	9.833	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.833	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.918	9.733	PASS

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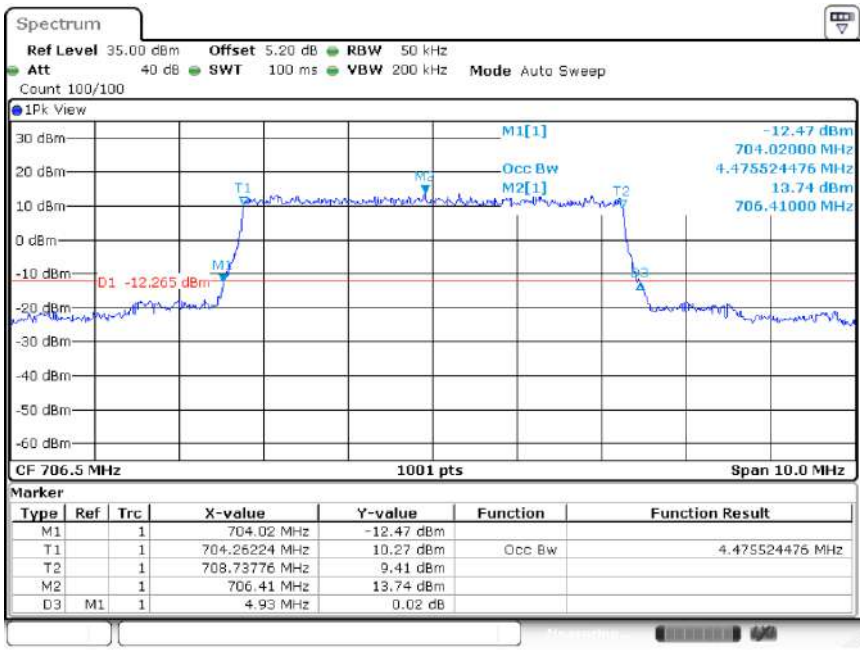
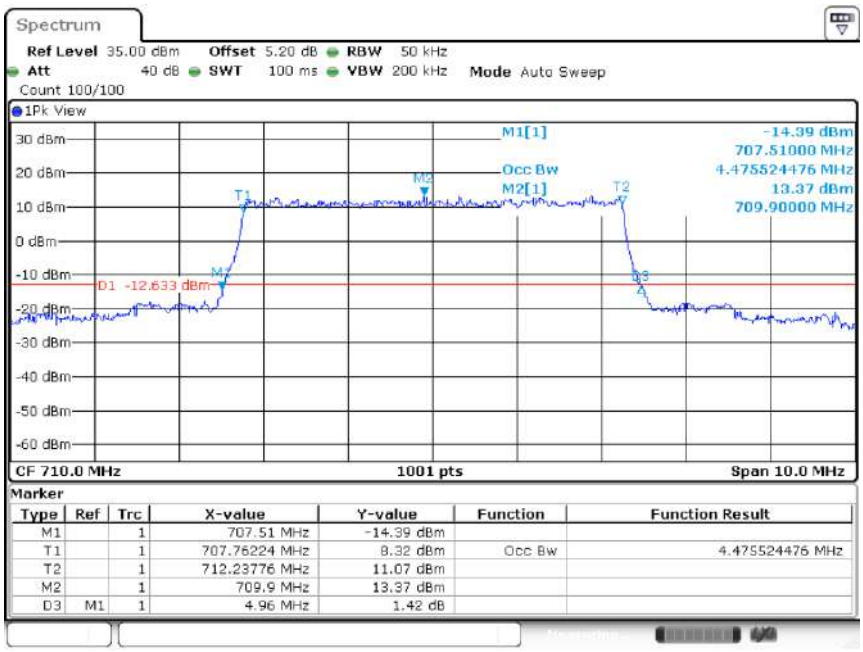
4.2 Test Plots

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



Date: 22.OCT.2020 23:48:45

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



Date: 22.OCT.2020 23:49:31

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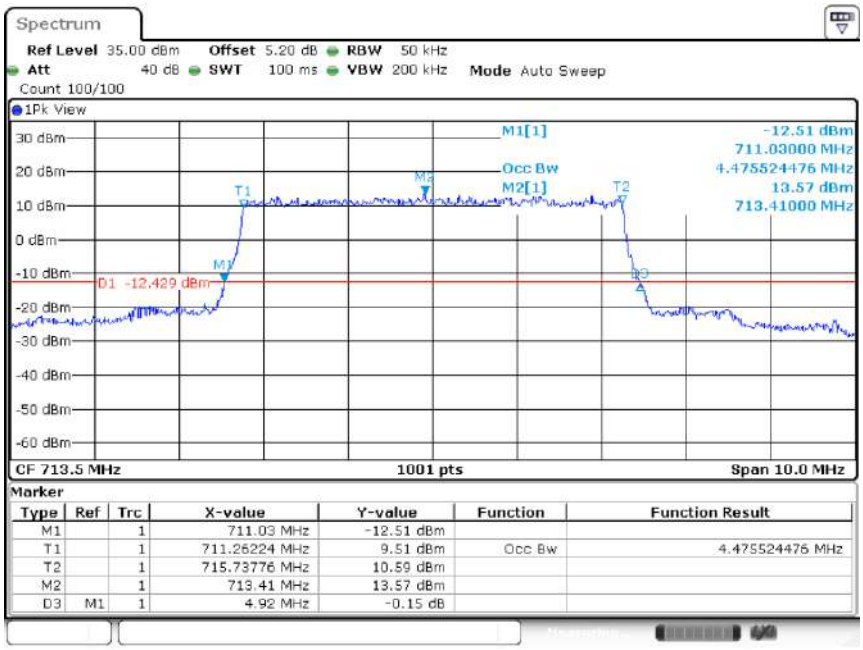
Band17-5MHz-QPSK-23825-25RB#0-4.476



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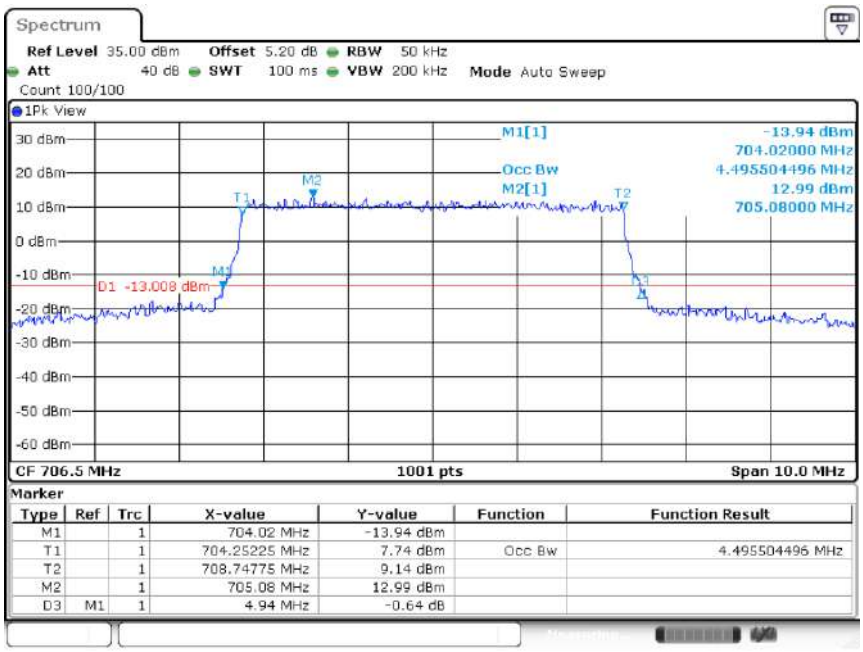
Band17-5MHz-16QAM-23755-25RB#0-4.496



Date: 22.OCT.2020 23:49:08

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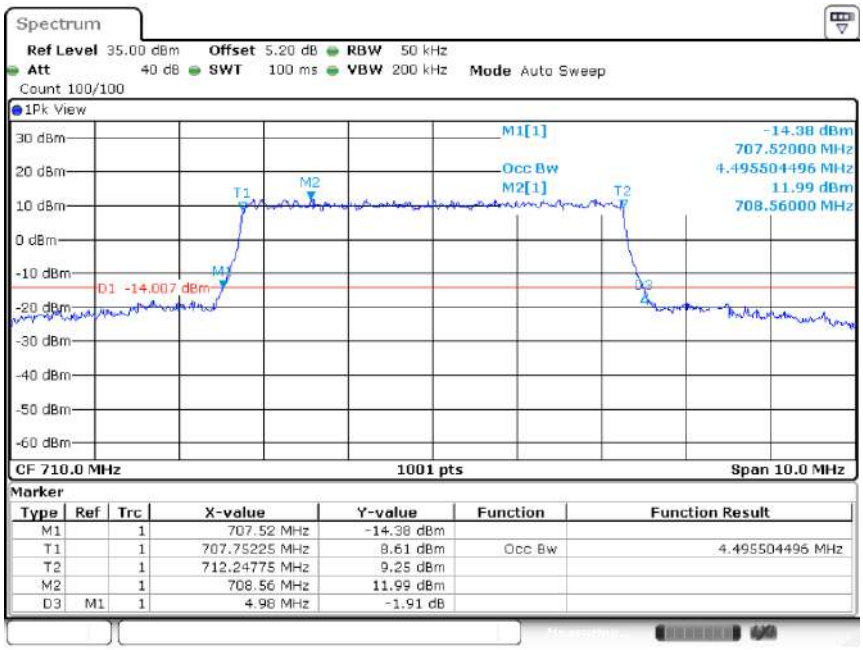
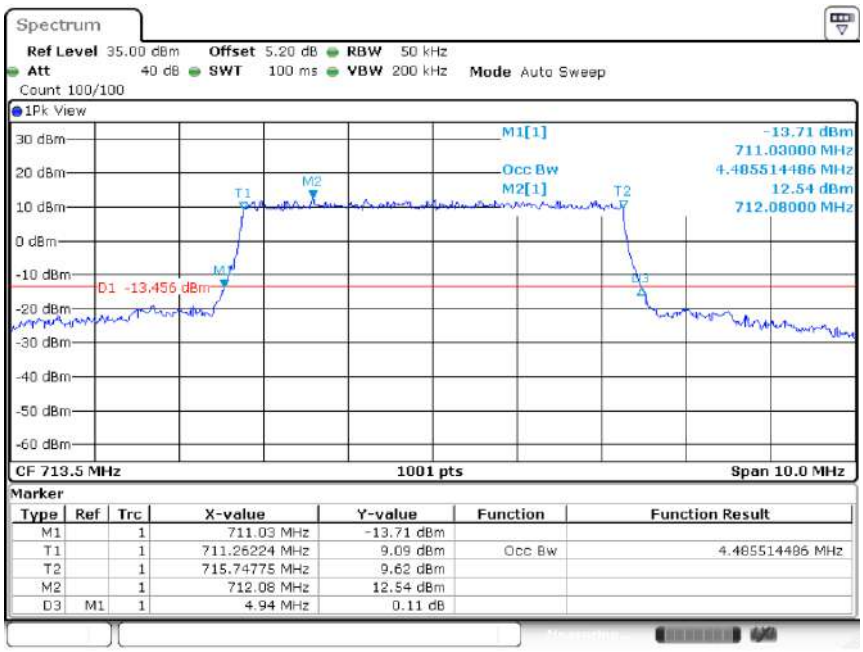
Band17-5MHz-16QAM-23790-25RB#0-4.496



Date: 22.OCT.2020 23:49:54

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



Date: 22.OCT.2020 23:50:40

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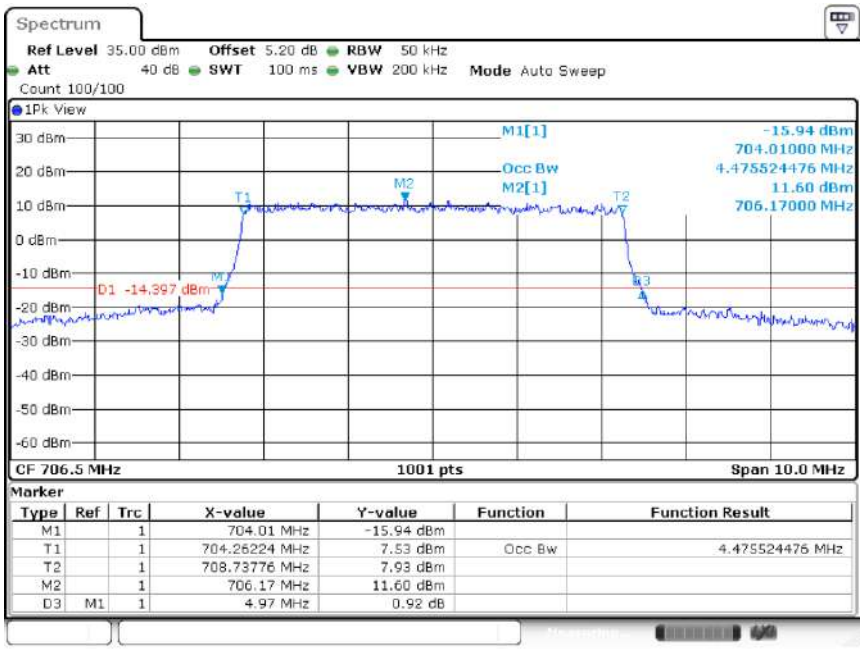
Band17-5MHz-64QAM-23755-25RB#0-4.476



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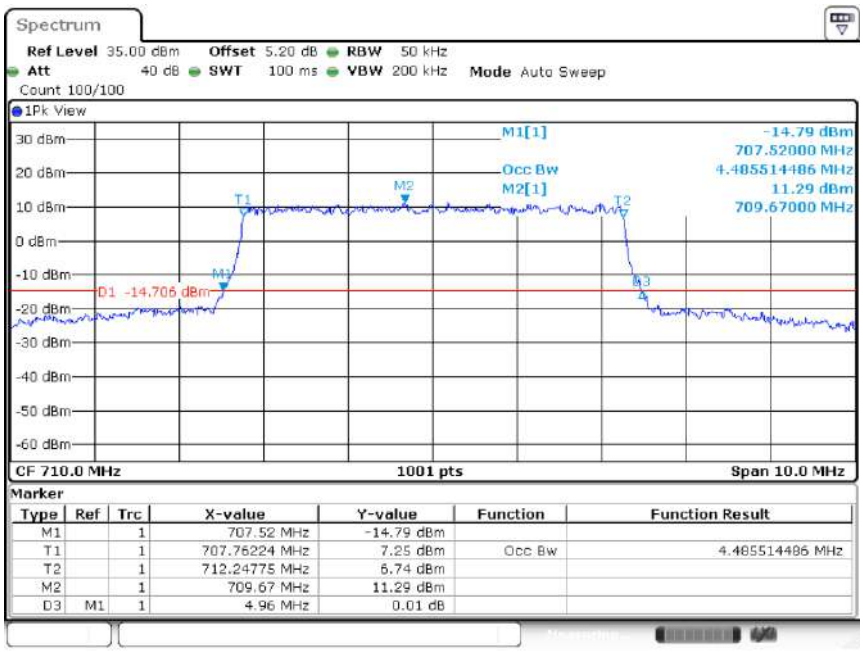
Band17-5MHz-64QAM-23790-25RB#0-4.486



Date: 23.OCT.2020 01:08:17

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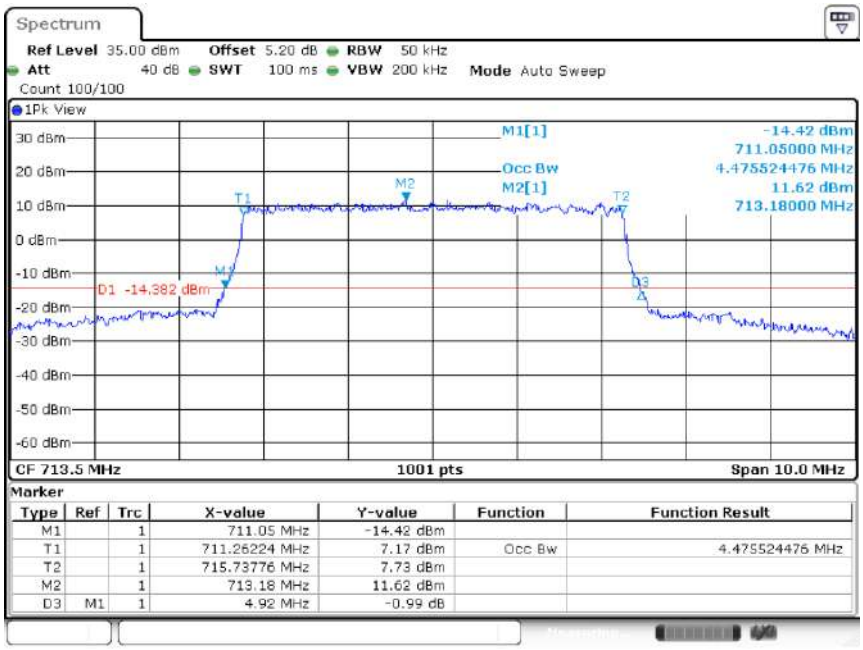
Band17-5MHz-64QAM-23825-25RB#0-4.476



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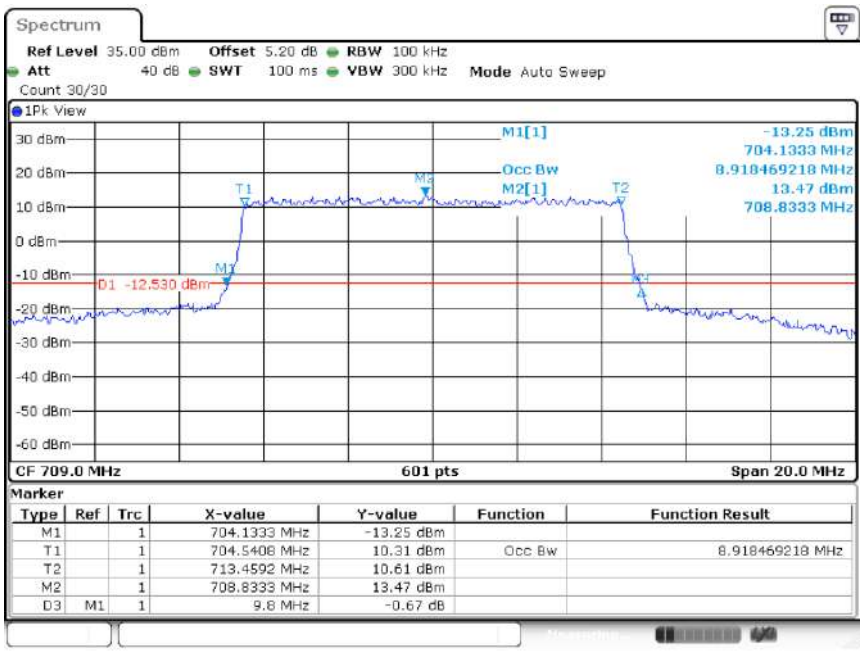
Band17-10MHz-QPSK-23780-50RB#0-8.918



Date: 22.OCT.2020 23:51:02

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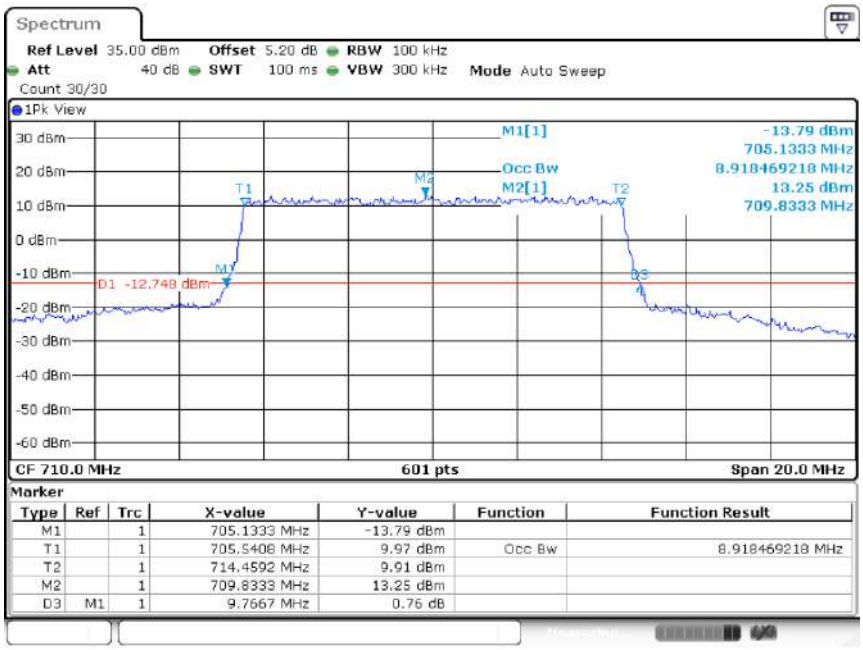
Band17-10MHz-QPSK-23790-50RB#0-8.918



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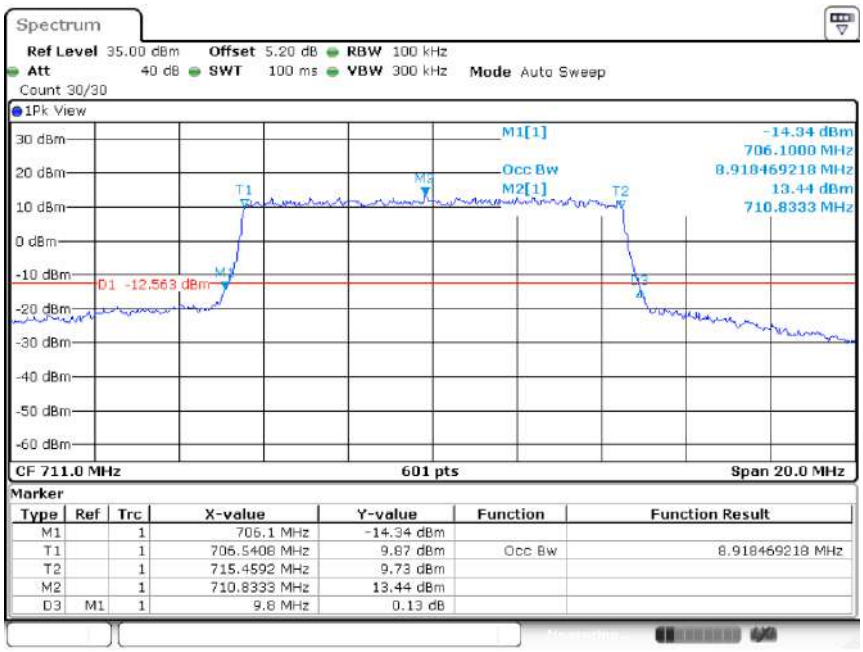
Band17-10MHz-QPSK-23800-50RB#0-8.918



Date: 22.OCT.2020 23:52:06

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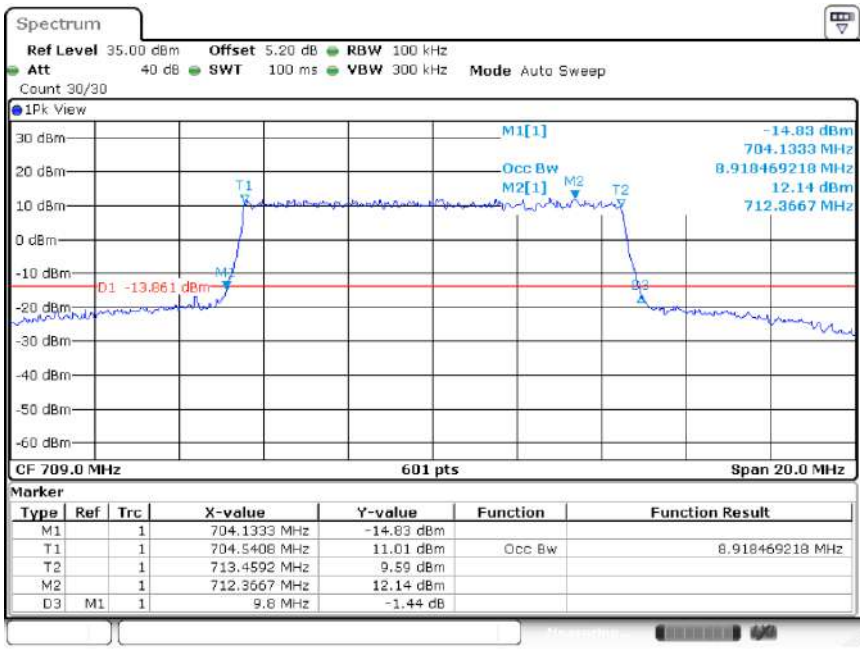
Band17-10MHz-16QAM-23780-50RB#0-8.918



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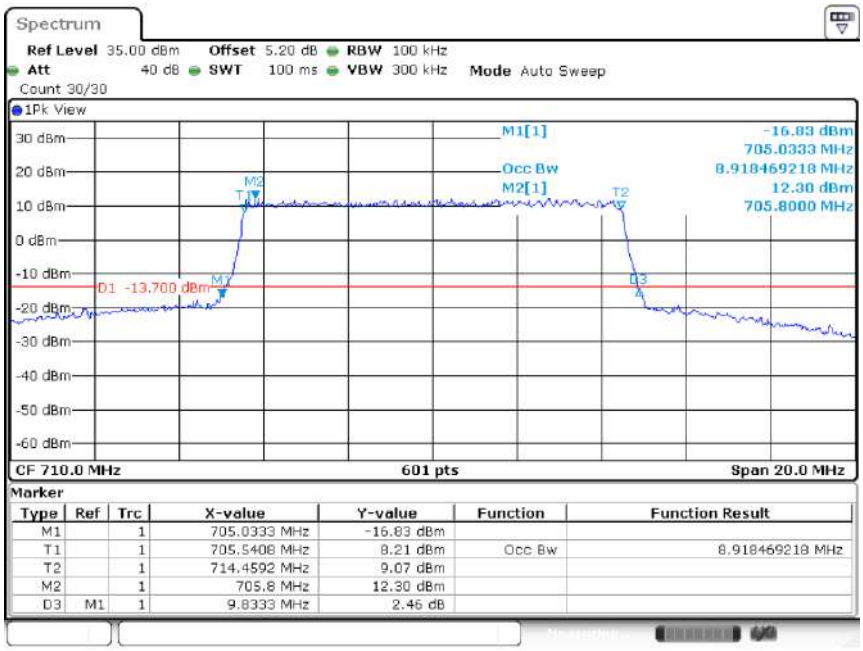
Band17-10MHz-16QAM-23790-50RB#0-8.918



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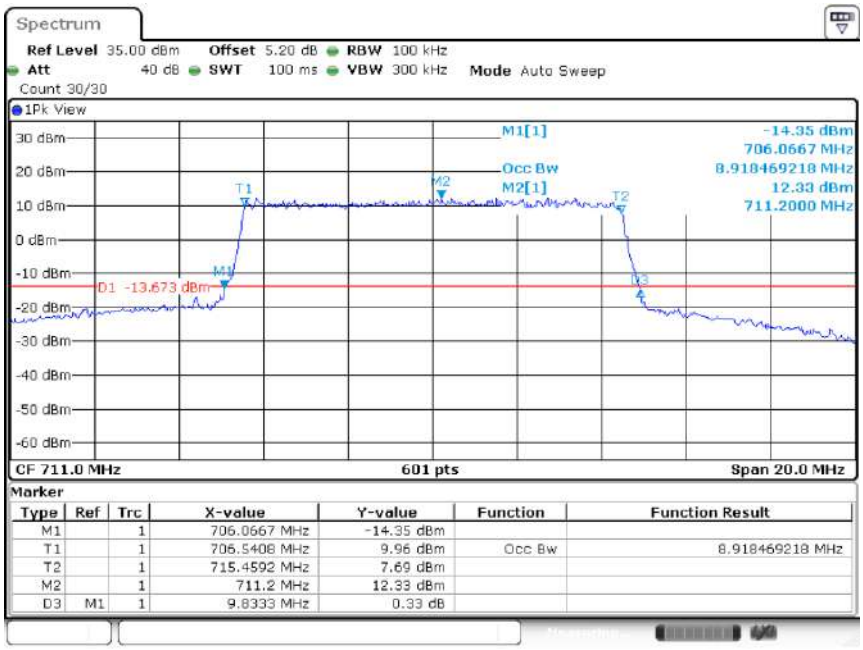
Band17-10MHz-16QAM-23800-50RB#0-8.918



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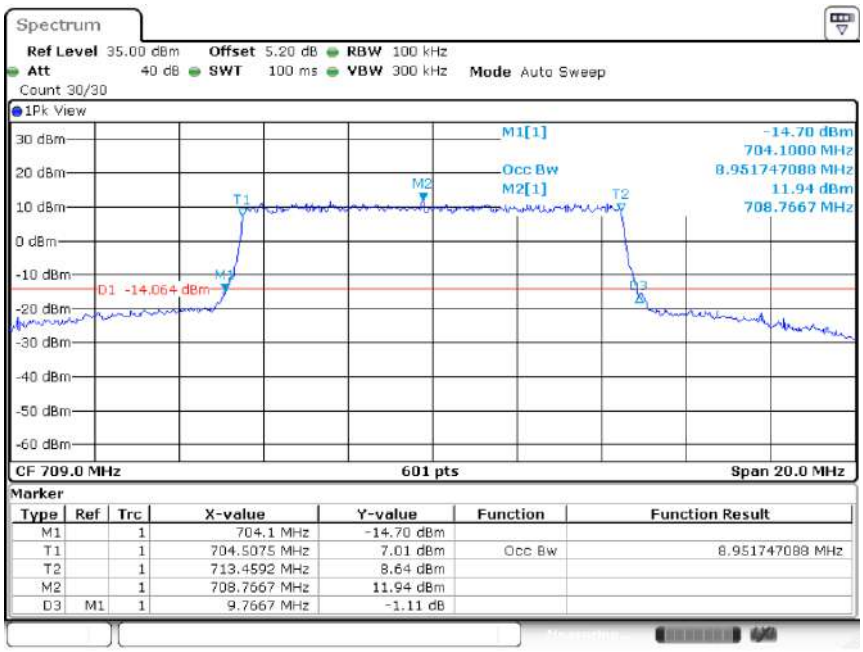
Band17-10MHz-64QAM-23780-50RB#0-8.952



Date: 23.OCT.2020 01:09:03

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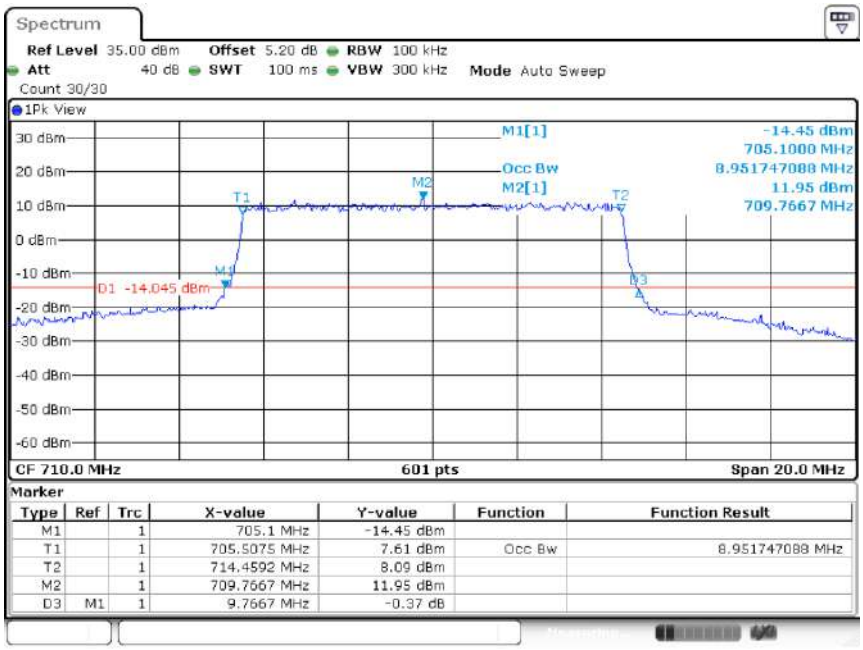
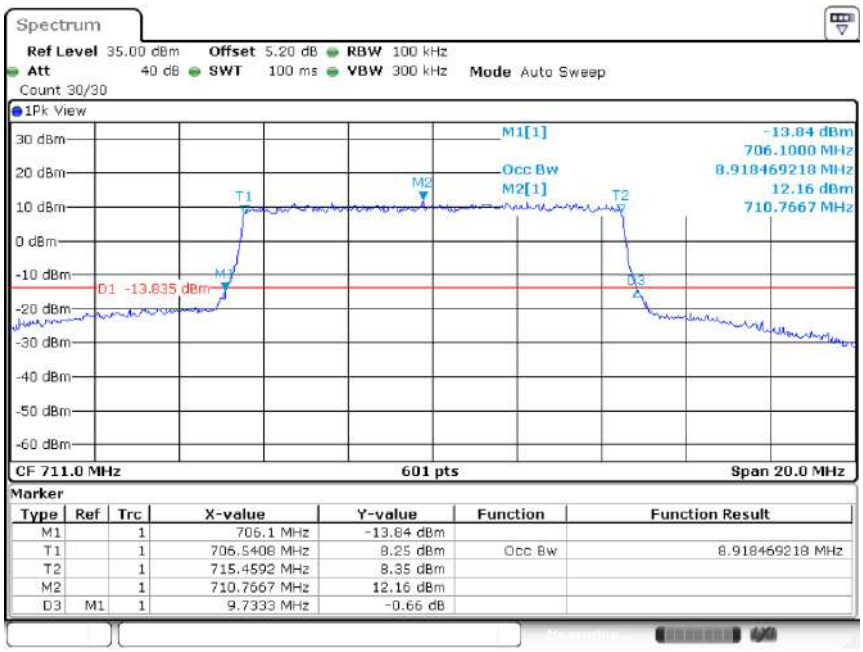


Date: 23.OCT.2020 01:09:19

Band17-10MHz-64QAM-23800-50RB#0-8.918



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5 Band Edge Compliance

5.1 Test Plots

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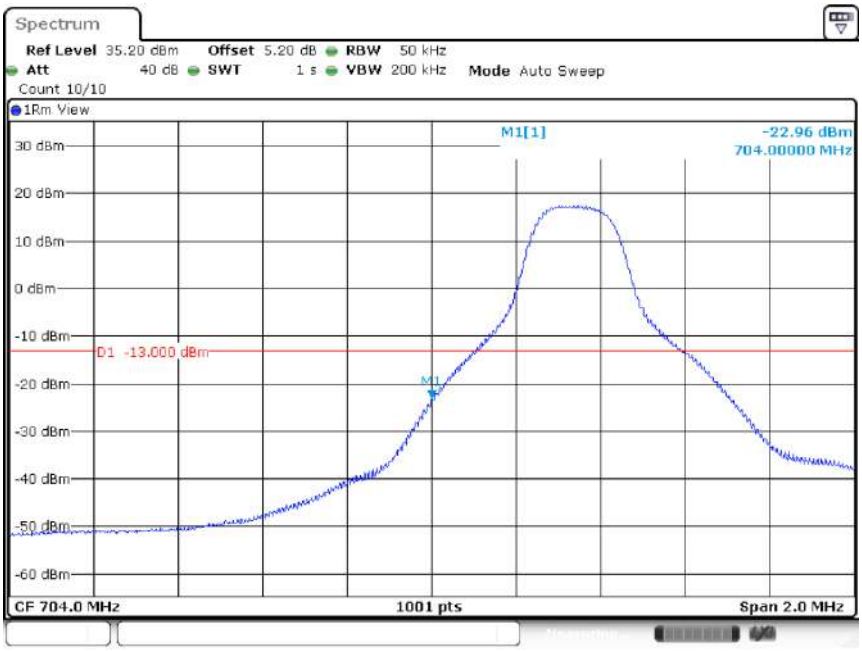
Band17-5MHz-QPSK-23755-25RB#0

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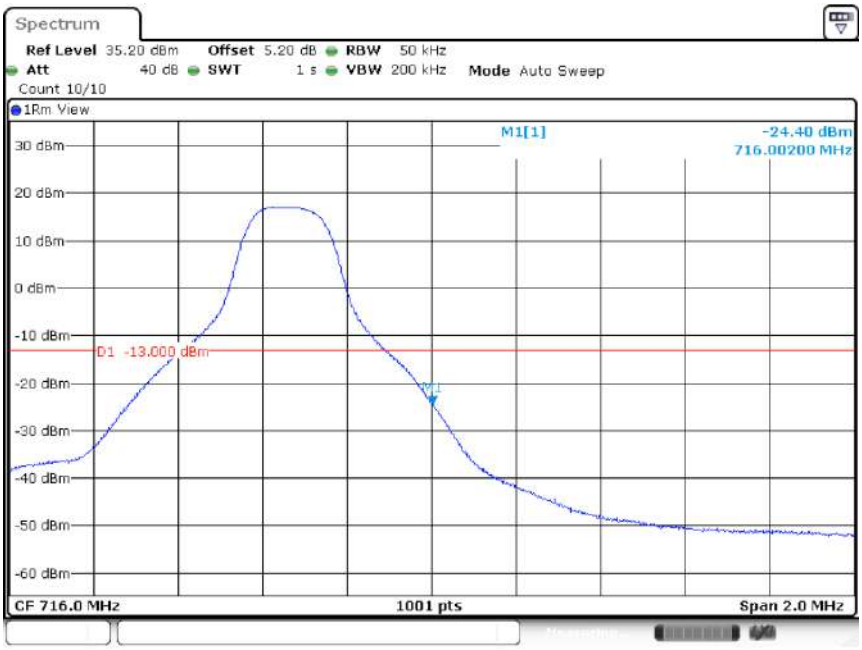
Band17-5MHz-QPSK-23825-1RB#24



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

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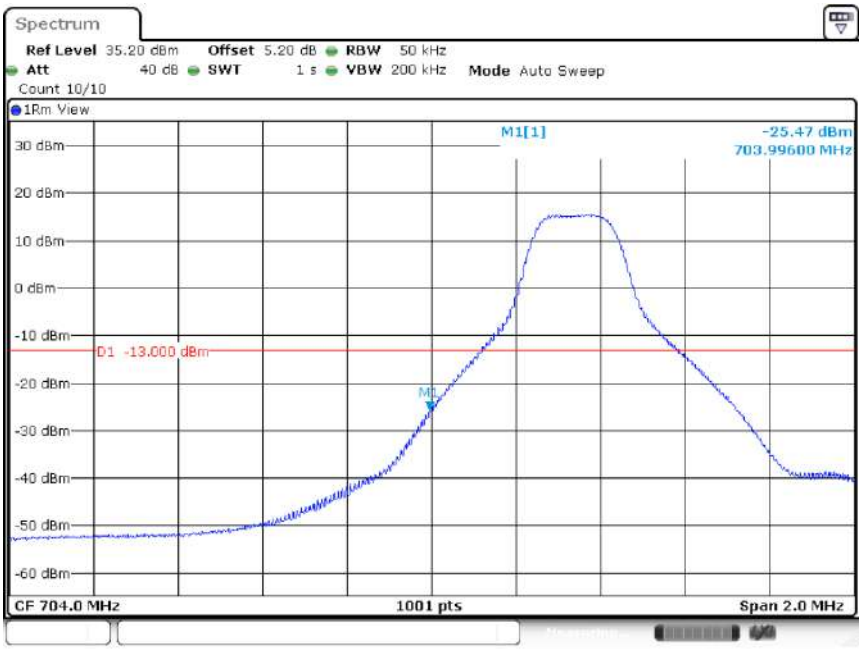
Band17-5MHz-64QAM-23755-1RB#0



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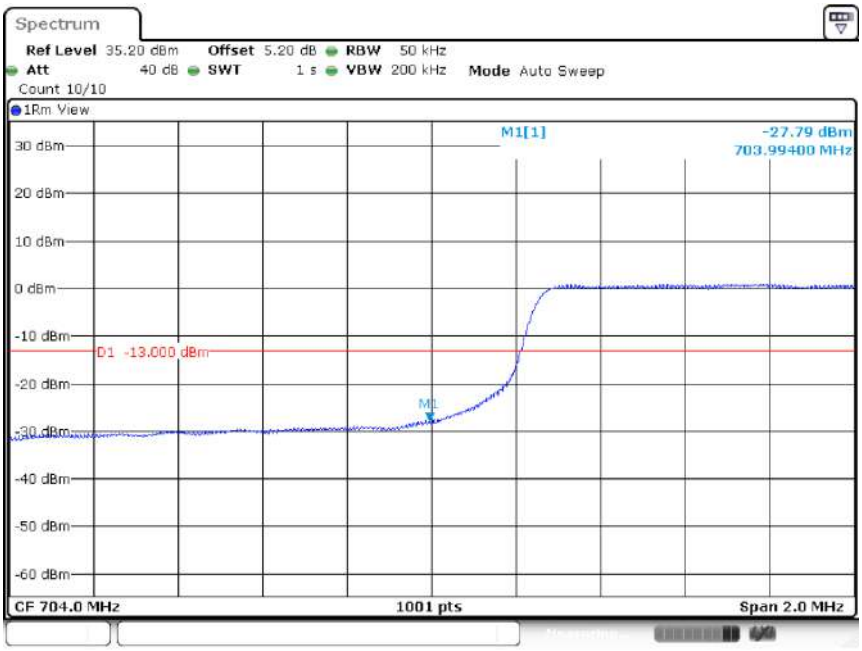

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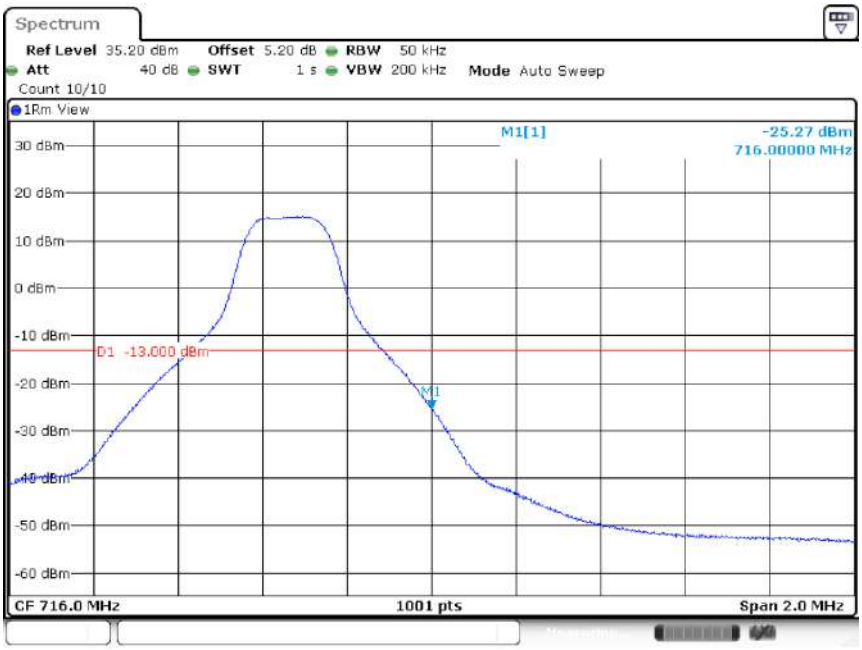
Band17-5MHz-64QAM-23825-1RB#24



Date: 23.OCT.2020 16:54:55

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

Date: 23.OCT.2020 16:55:16

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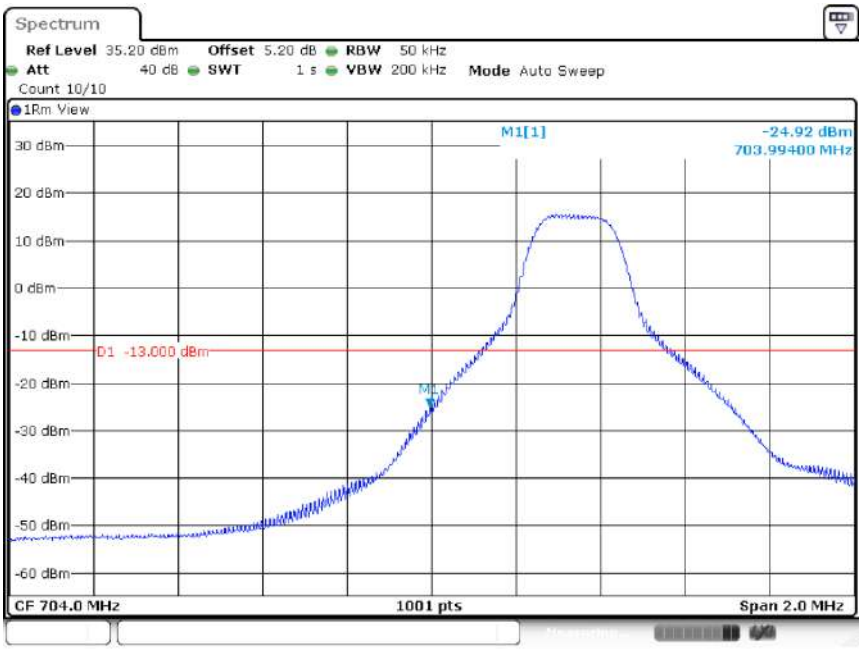
Band17-5MHz-16QAM-23755-1RB#0



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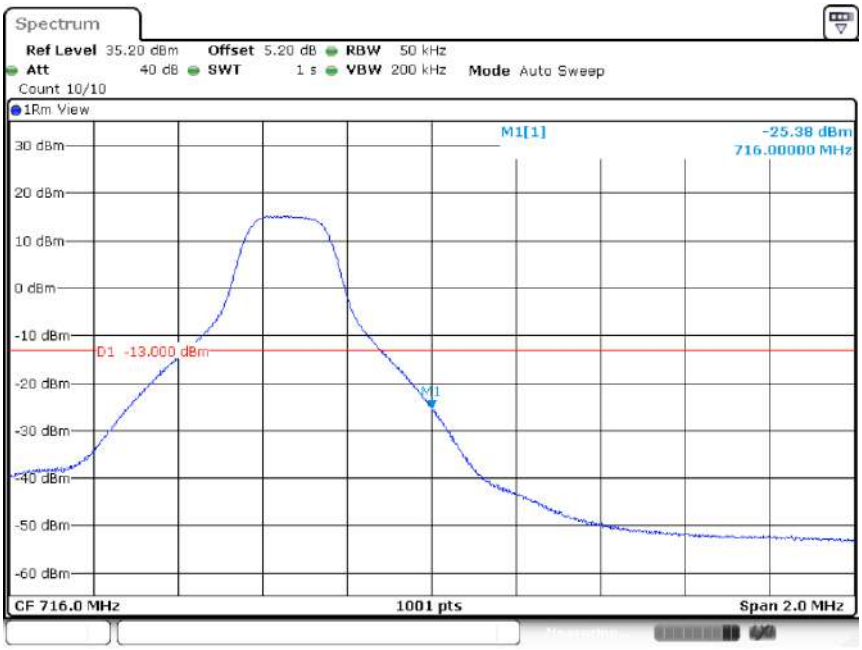
Band17-5MHz-16QAM-23825-1RB#24



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

Date: 23.OCT.2020 16:33:50

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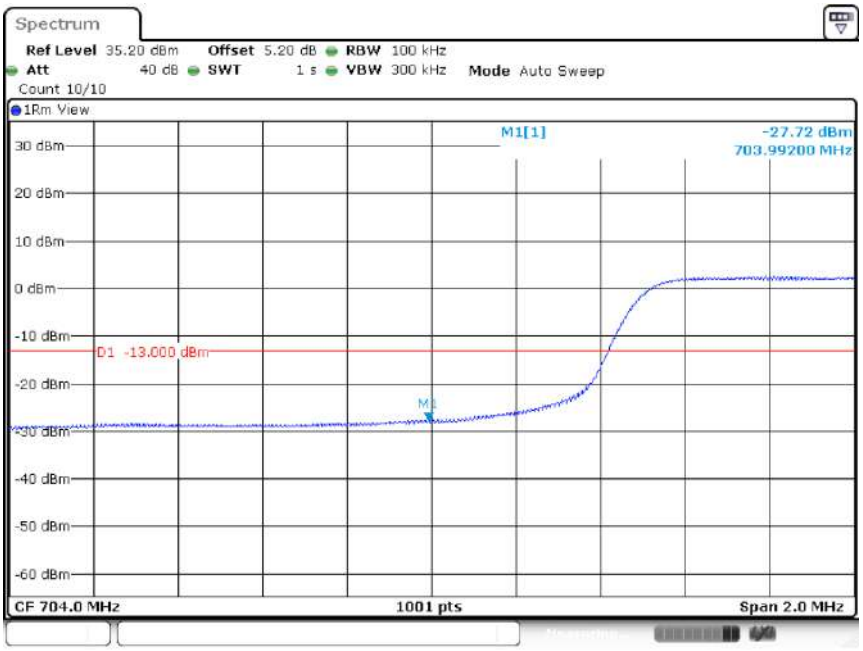
Band17-10MHz-QPSK-23780-1RB#0

Date: 23.OCT.2020 16:34:16

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



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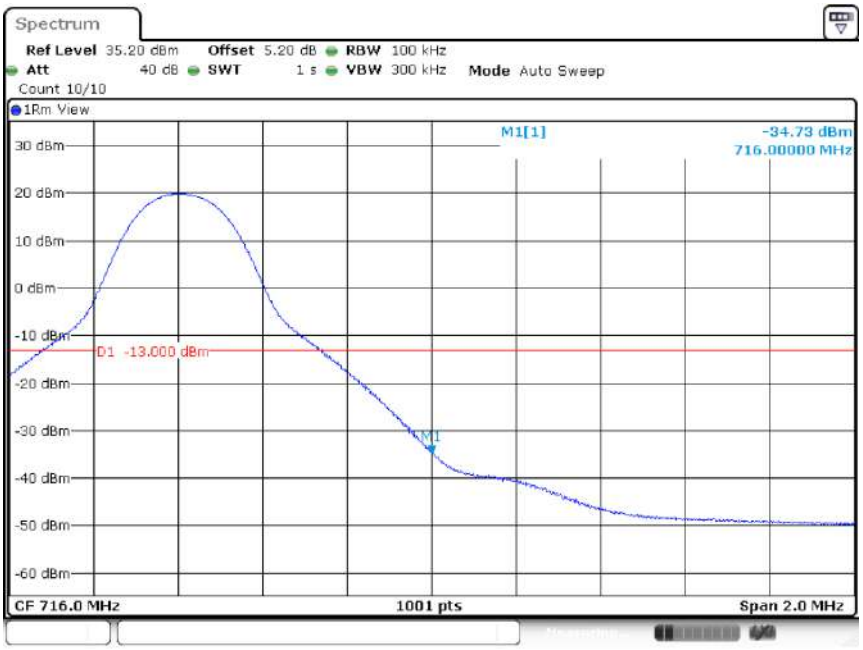
Band17-10MHz-QPSK-23800-1RB#49



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

Date: 23.OCT.2020 16:36:27

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

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

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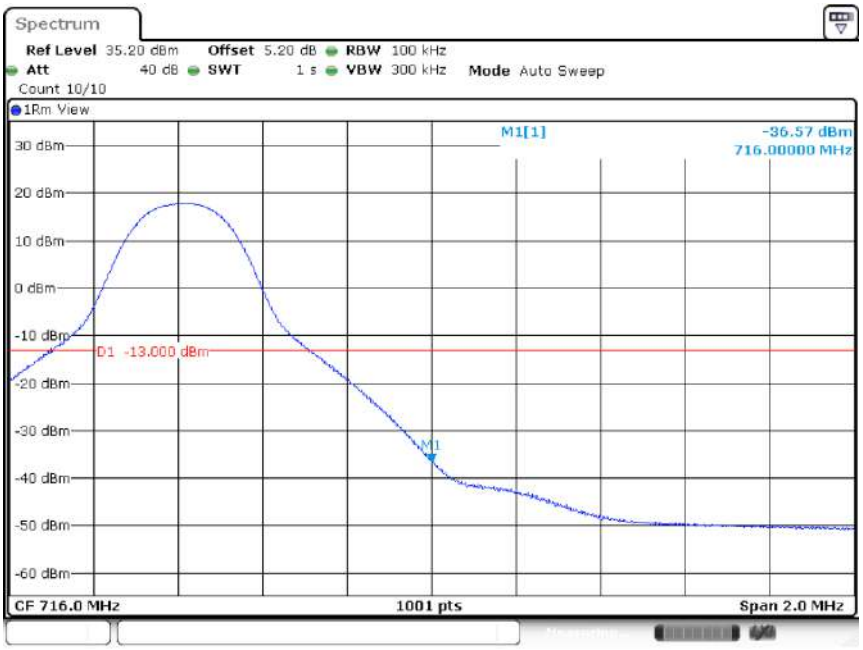
Band17-10MHz-64QAM-23800-1RB#49



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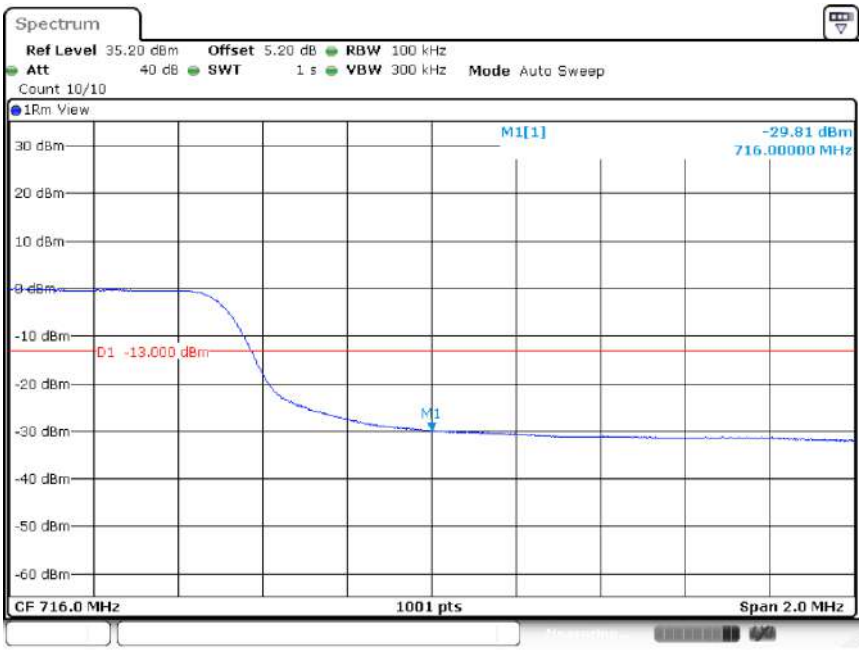
Band17-10MHz-64QAM-23800-50RB#0



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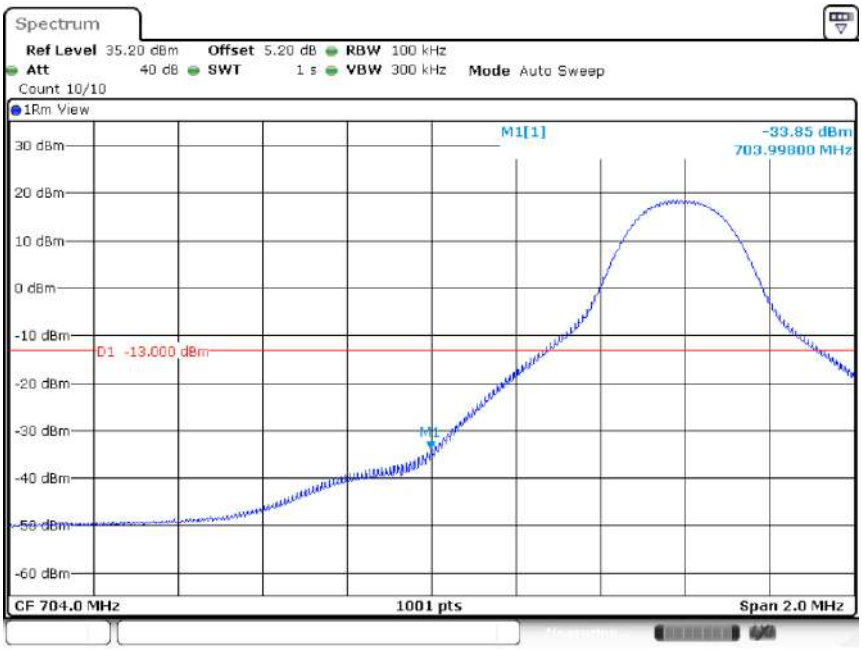
Band17-10MHz-16QAM-23780-1RB#0



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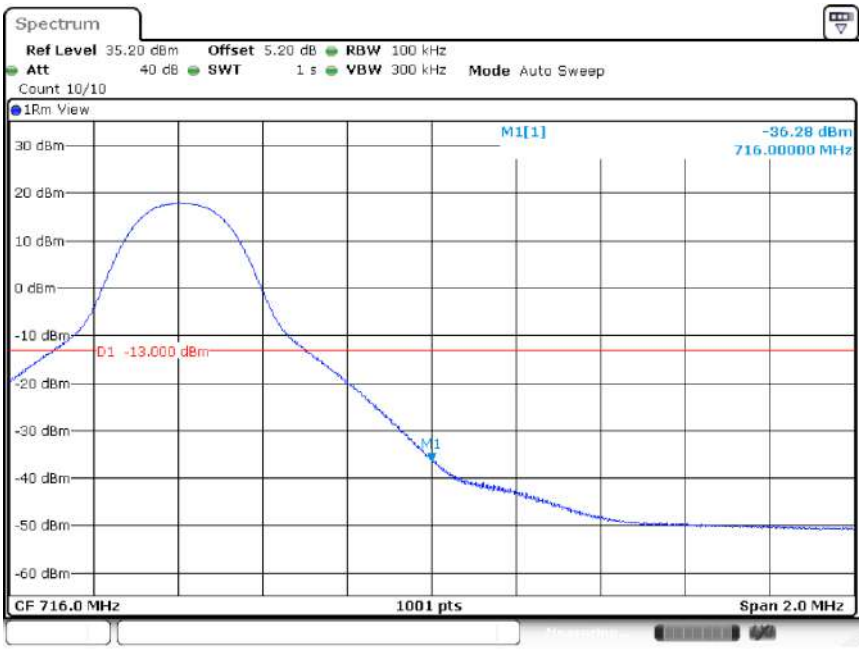

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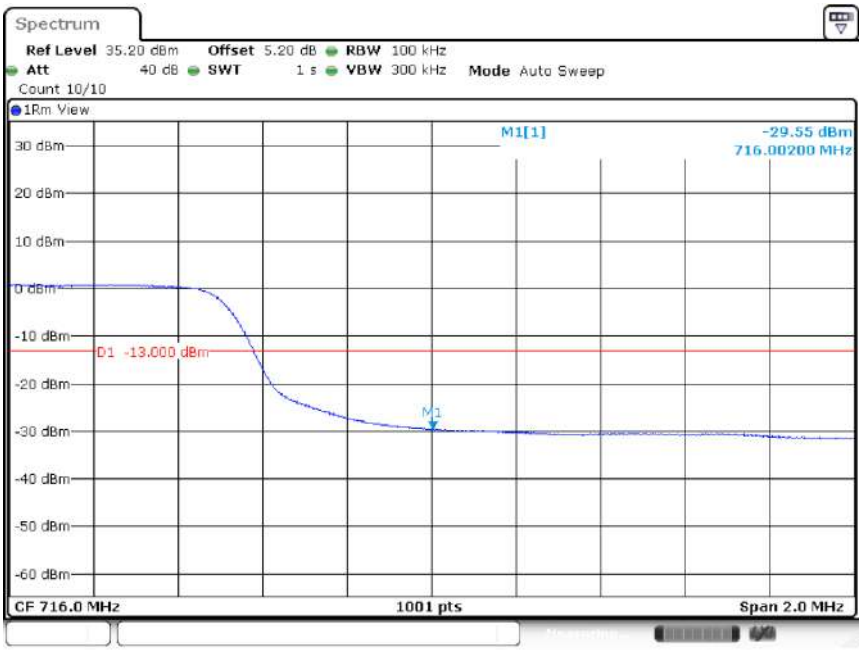
Band17-10MHz-16QAM-23800-50RB#0



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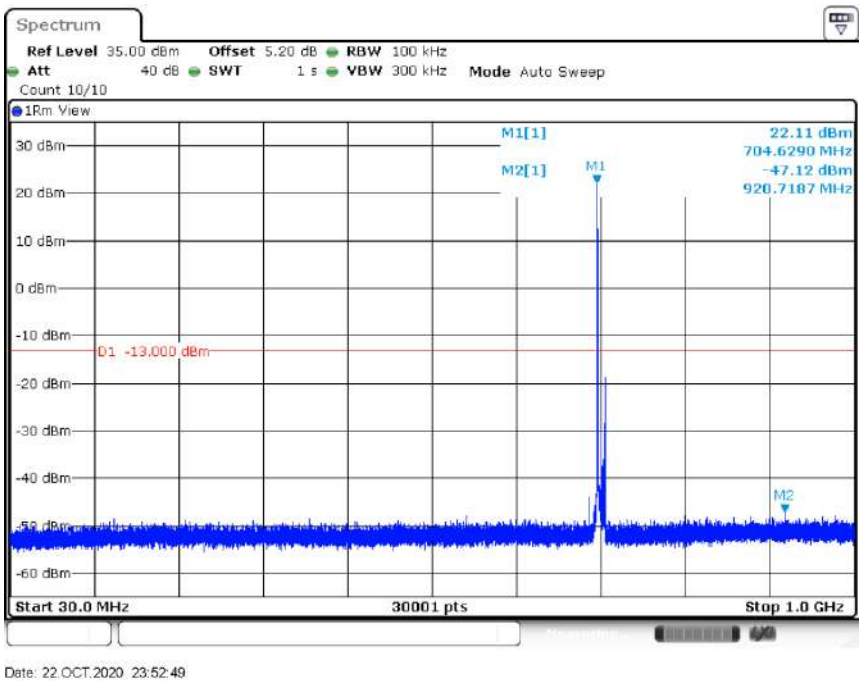
6 Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

6.1 Test Plots

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



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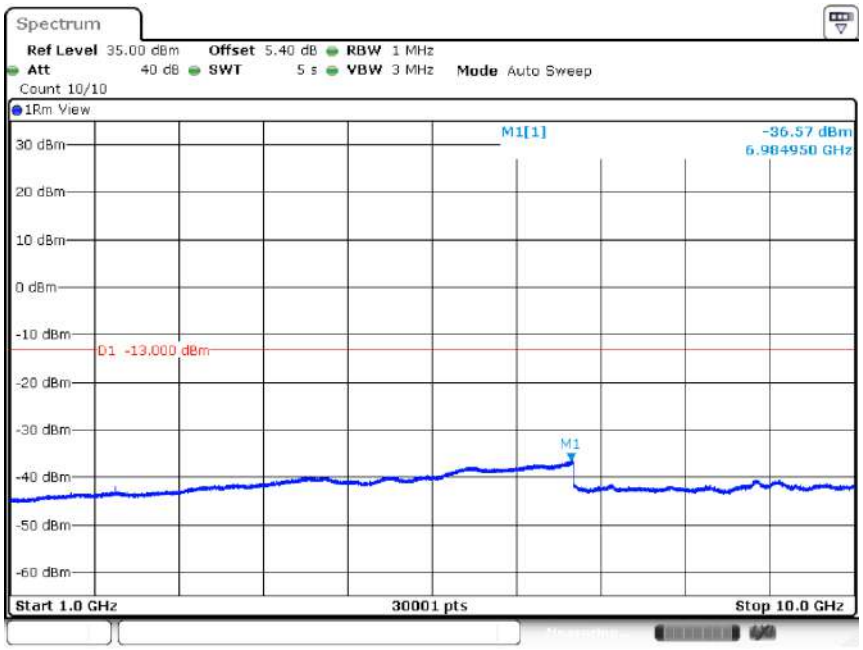
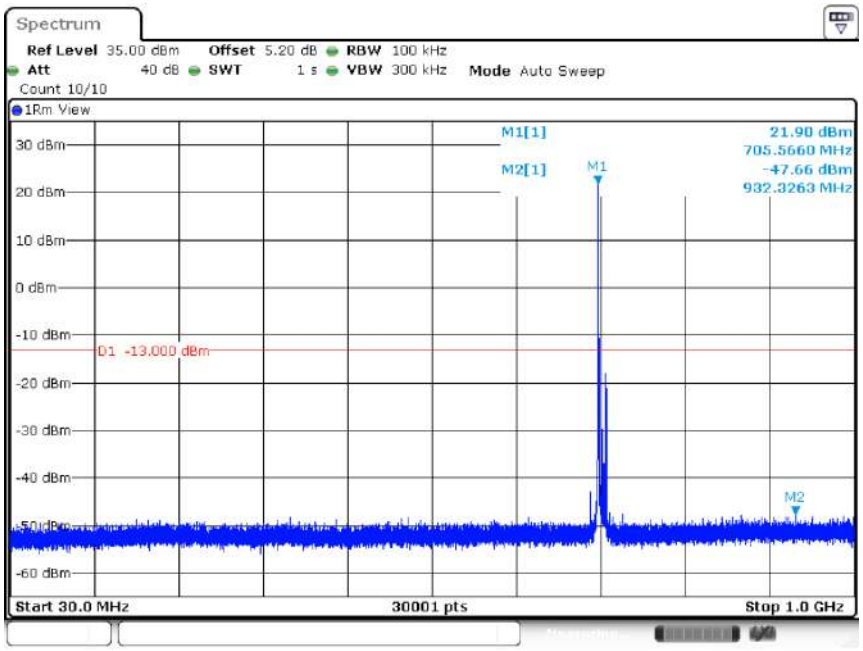


Date: 22.OCT.2020 23:53:58

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



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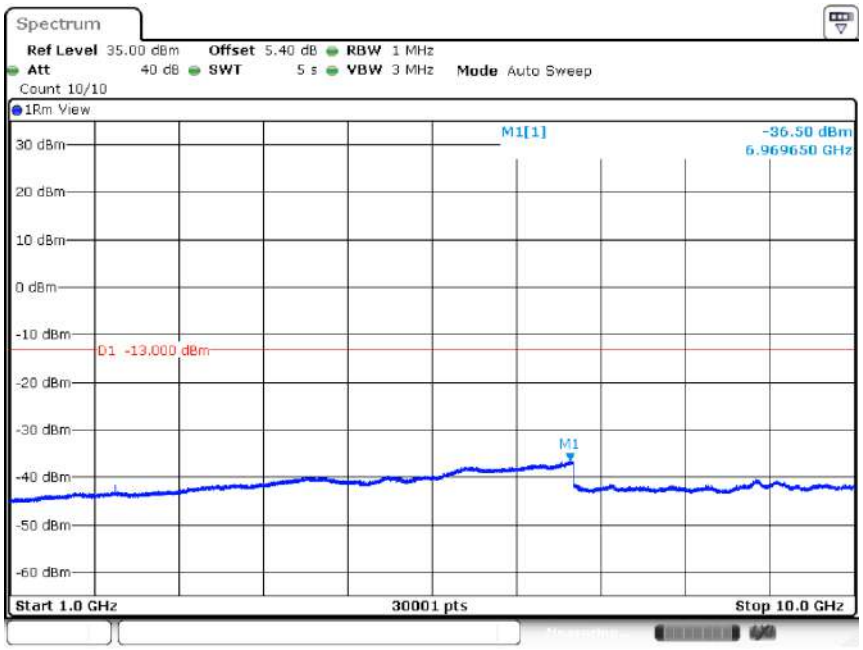
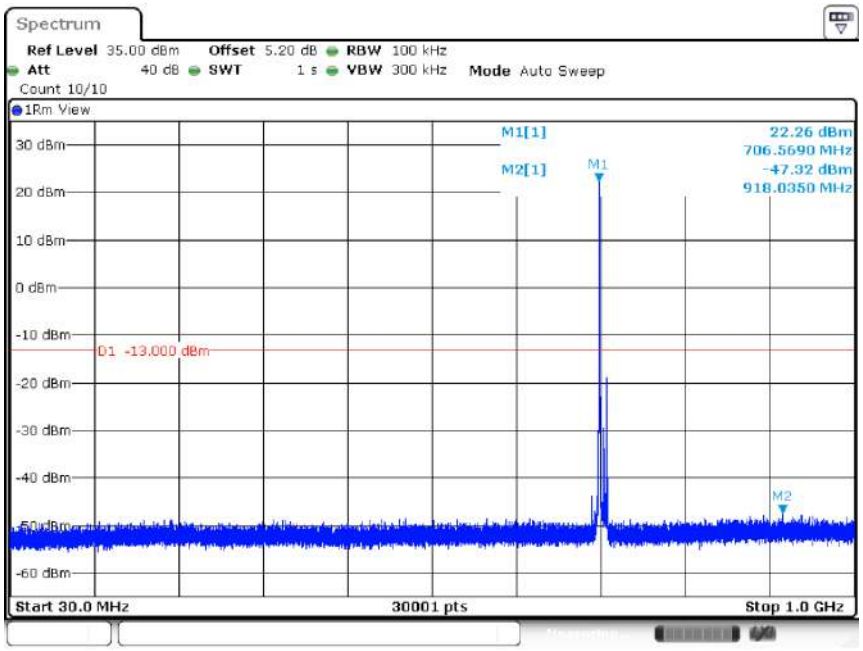
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:57:00

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



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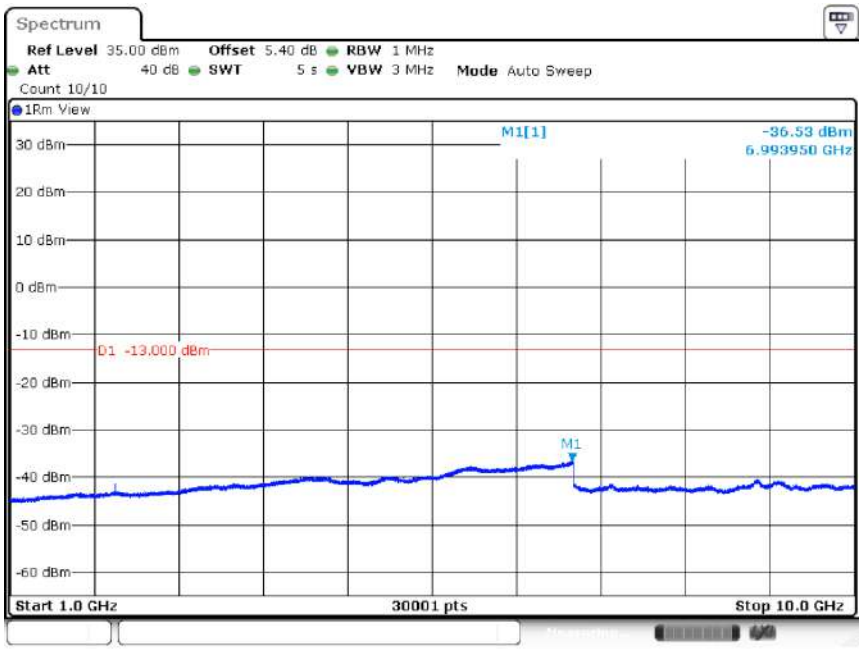
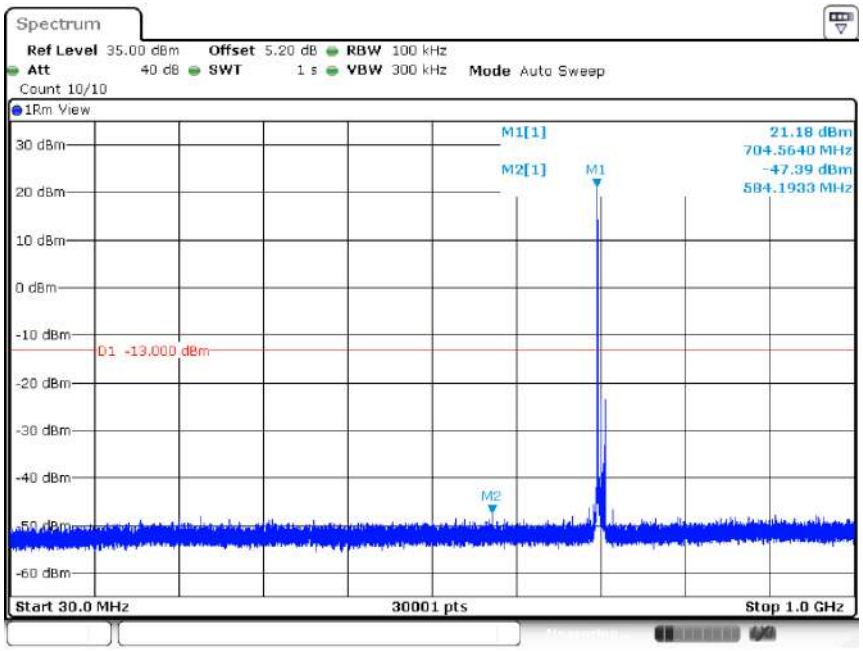
Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



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



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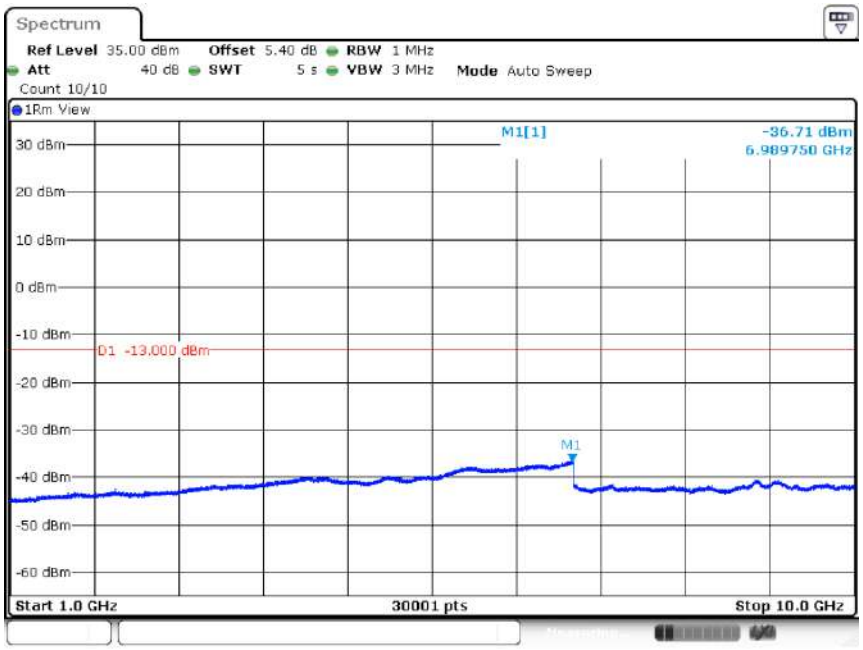
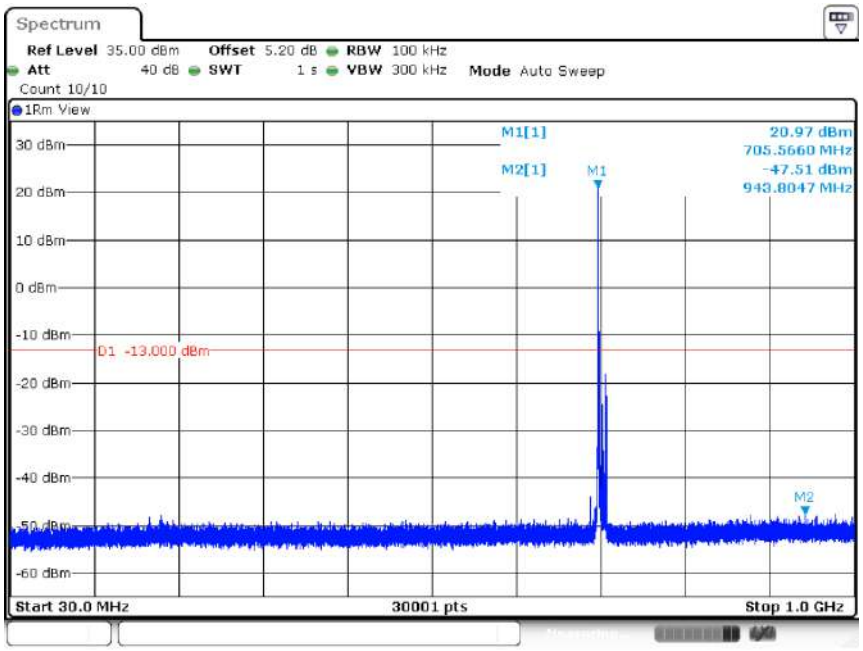


Date: 22.OCT.2020 23:55:29

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



Date: 22.OCT.2020 23:57:23

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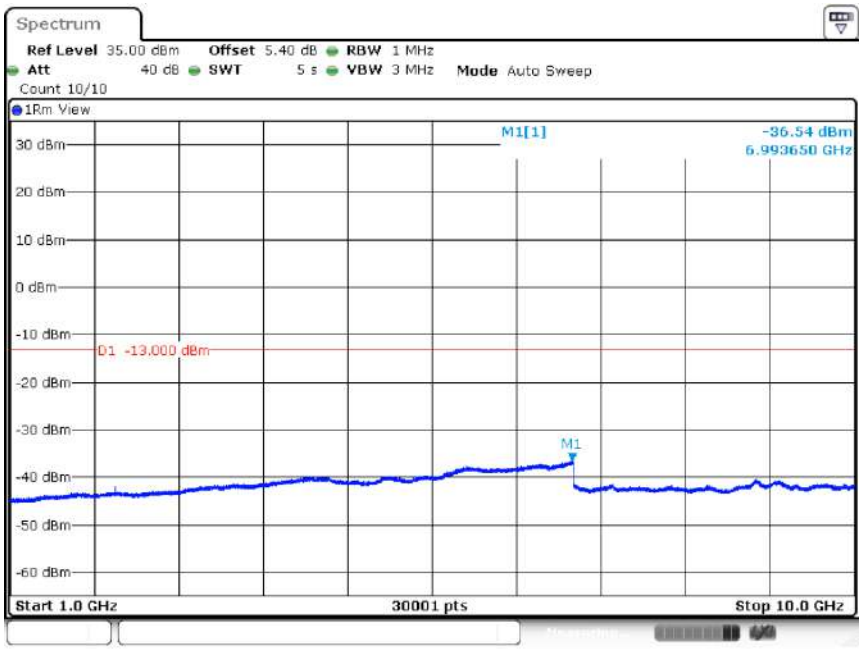
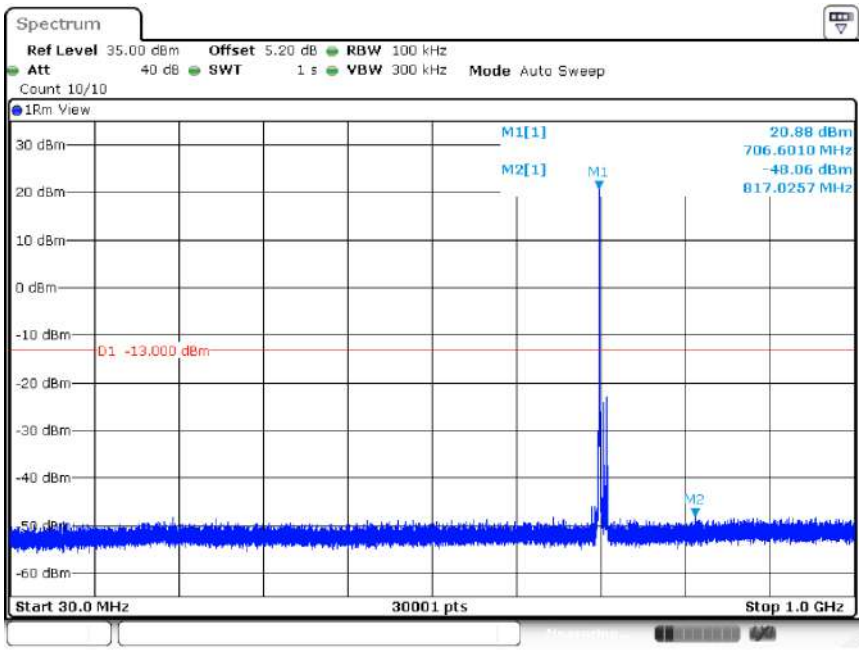


Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



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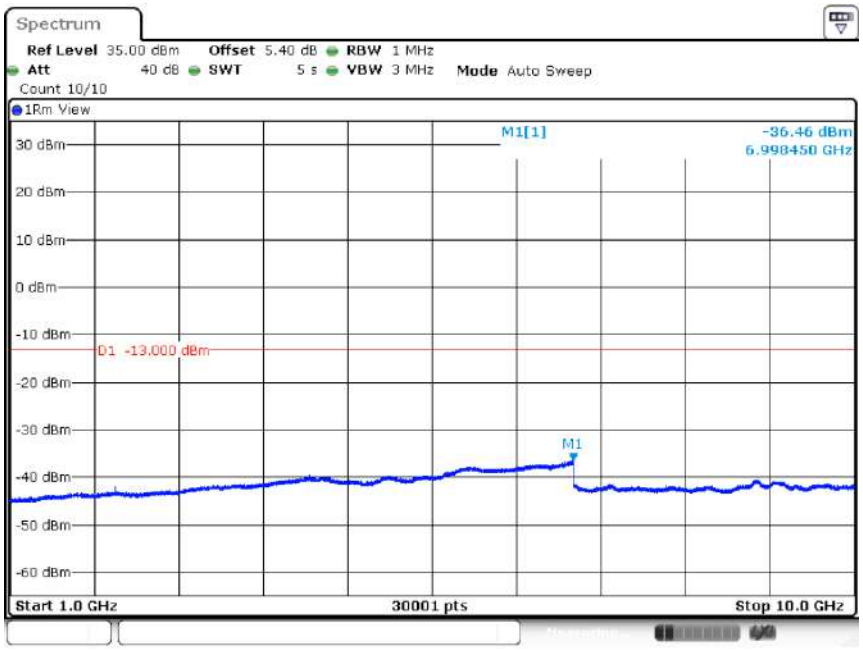
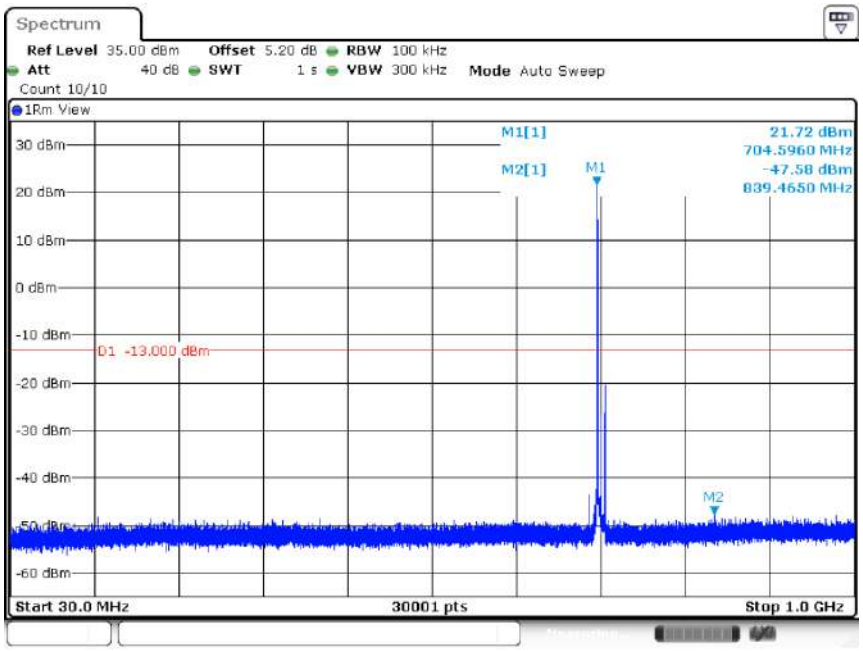


Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



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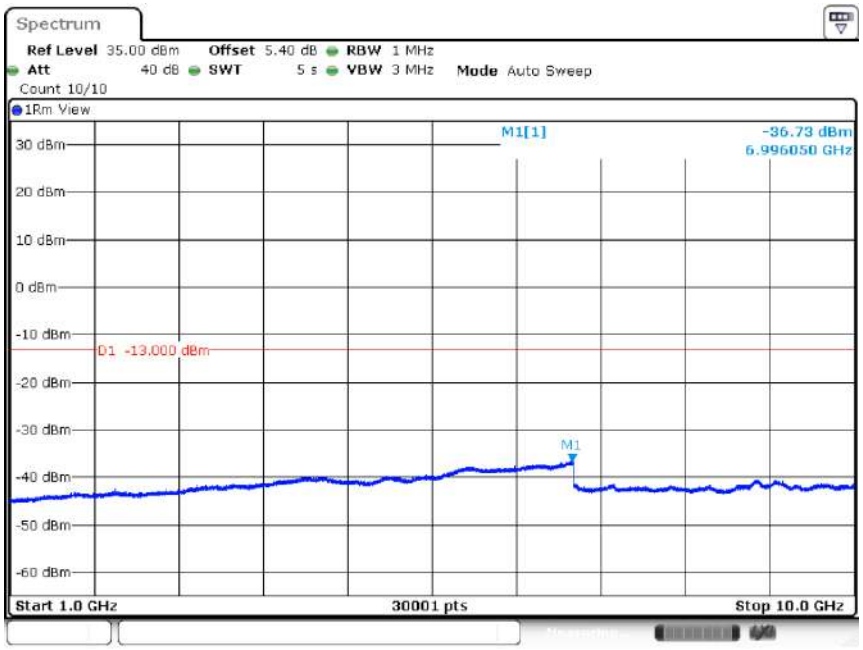
Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~10000MHz



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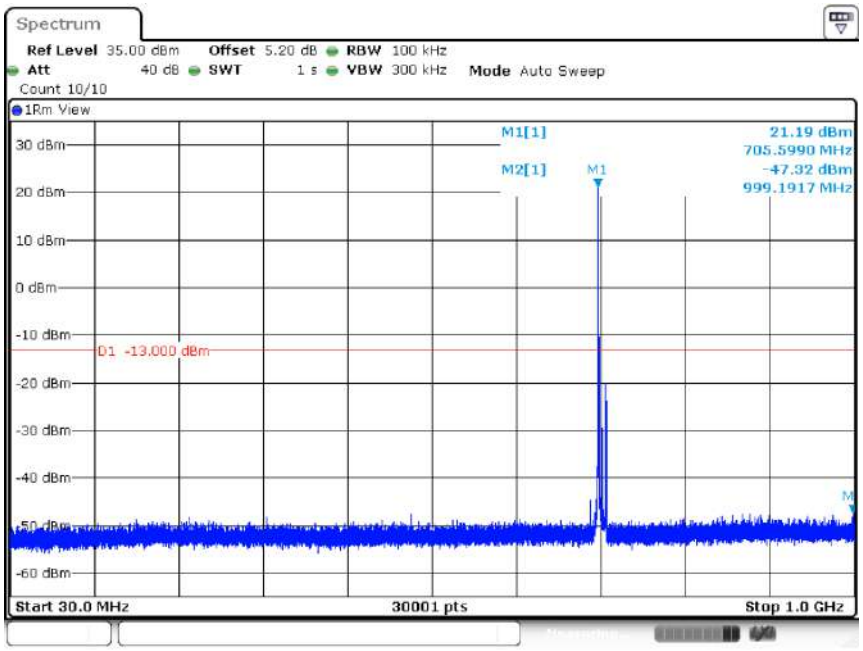

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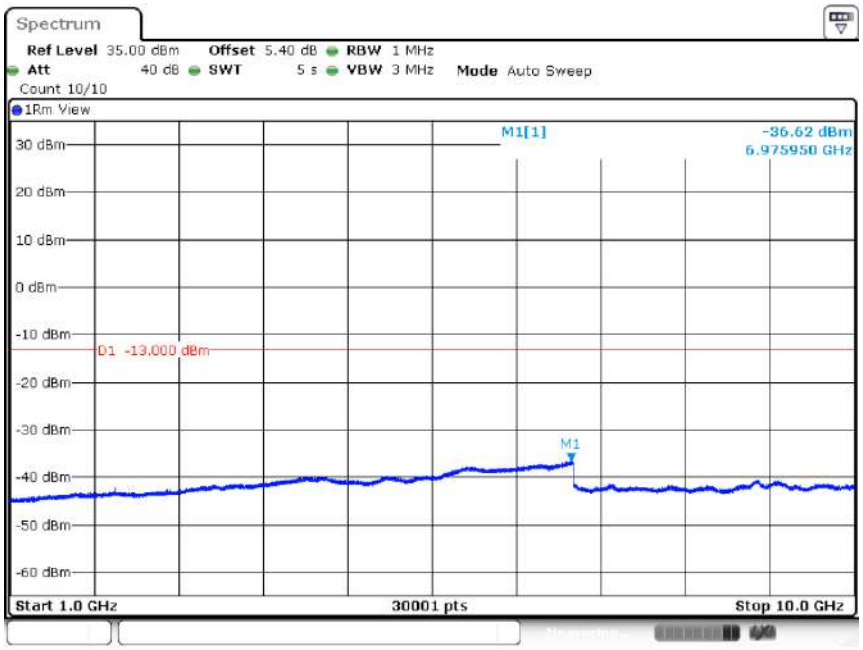
Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~10000MHz



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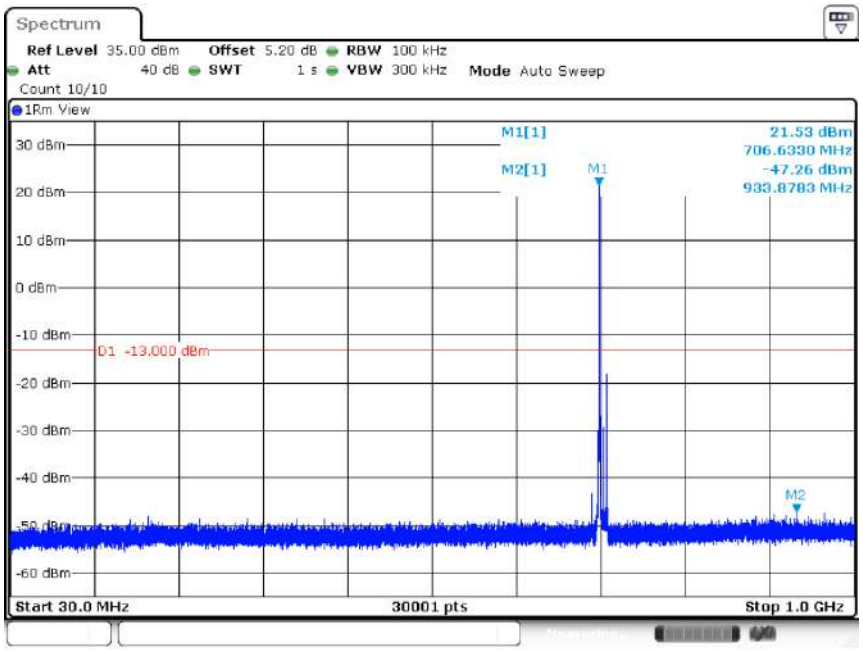

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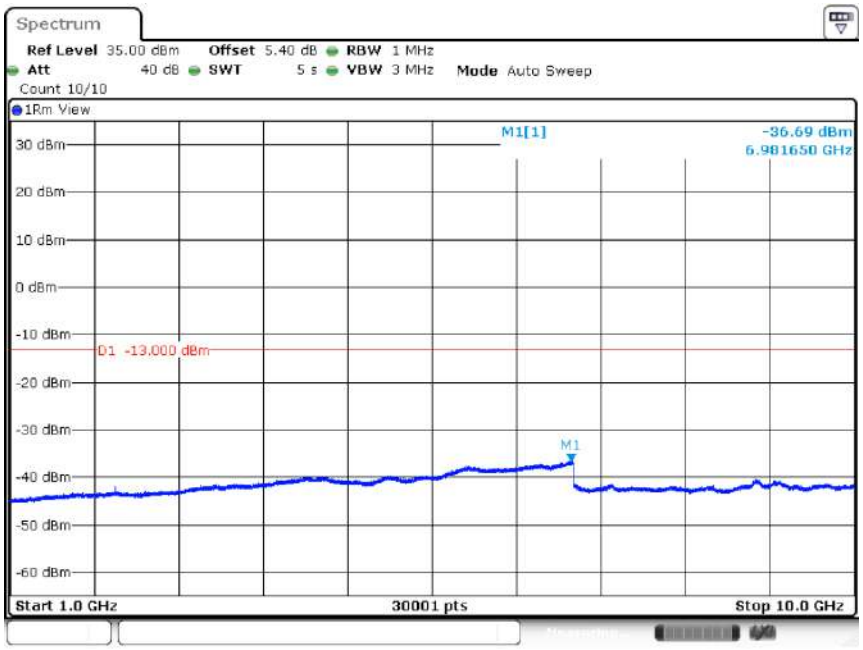

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7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_17 _TM1

7.1.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.3496	-70.60	-63.77	-13.00	50.77	174	20	Horizontal
2	230.7515	-70.45	-67.62	-13.00	54.62	185	56	Horizontal
3	2113.8228	-55.85	-47.97	-13.00	34.97	199	172	Horizontal
4	2697.5395	-68.42	-55.56	-13.00	42.56	321	73	Horizontal
5	7448.8180	-56.60	-56.63	-13.00	43.63	215	163	Horizontal
6	9294.0918	-58.91	-53.06	-13.00	40.06	151	110	Horizontal

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7.2 Test Band = LTE_17 _TM1

7.2.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.9575	-67.04	-64.92	-13.00	51.92	185	304	Vertical
2	109.1560	-71.26	-65.05	-13.00	52.05	199	92	Vertical
3	399.9765	-69.87	-66.75	-13.00	53.75	321	12	Vertical
4	2113.8228	-59.68	-51.78	-13.00	38.78	251	220	Vertical
5	3675.9470	-52.36	-61.66	-13.00	48.66	184	12	Vertical
6	9324.0530	-58.88	-53.01	-13.00	40.01	164	251	Vertical

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7.3 Test Band = LTE_17 _TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.7190	-70.52	-63.72	-13.00	50.72	174	60	Horizontal
2	244.8657	-70.42	-67.74	-13.00	54.74	185	8	Horizontal
3	582.2001	-71.35	-64.15	-13.00	51.15	196	304	Horizontal
4	1410.8822	-65.21	-62.93	-13.00	49.93	231	238	Horizontal
5	2116.6233	-56.88	-48.97	-13.00	35.97	262	172	Horizontal
6	9312.0125	-58.90	-53.07	-13.00	40.07	161	330	Horizontal

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7.4 Test Band = LTE_17 _TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	80.5880	-66.65	-64.91	-13.00	51.91	196	356	Vertical
2	112.4056	-70.48	-64.28	-13.00	51.28	185	40	Vertical
3	587.0504	-71.60	-64.60	-13.00	51.60	174	304	Vertical
4	2116.6233	-60.44	-52.50	-13.00	39.50	321	227	Vertical
5	7413.8166	-56.95	-56.46	-13.00	43.46	251	13	Vertical
6	9567.3827	-58.18	-52.89	-13.00	39.89	257	66	Vertical

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7.5 Test Band = LTE_17 _TM1

7.5.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2526	-69.84	-63.01	-13.00	50.01	174	89	Horizontal
2	244.7687	-70.81	-68.12	-13.00	55.12	185	300	Horizontal
3	1413.2827	-65.35	-63.03	-13.00	50.03	158	304	Horizontal
4	2119.8240	-56.86	-48.92	-13.00	35.92	258	177	Horizontal
5	7220.0488	-57.63	-57.95	-13.00	44.95	225	273	Horizontal
6	9557.0223	-57.89	-52.92	-13.00	39.92	204	142	Horizontal

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7.6 Test Band = LTE_17 _TM1

7.6.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	79.8120	-67.38	-65.30	-13.00	52.30	258	250	Vertical
2	111.6296	-70.68	-64.41	-13.00	51.41	296	31	Vertical
3	431.4546	-70.57	-67.12	-13.00	54.12	254	5	Vertical
4	1412.8826	-64.83	-62.07	-13.00	49.07	158	131	Vertical
5	2119.8240	-60.46	-52.48	-13.00	39.48	196	220	Vertical
6	9275.8910	-58.57	-52.89	-13.00	39.89	174	60	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-2.00	-0.002821	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.00	-0.001408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-3.30	-0.004641	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	0.50	0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-0.10	-0.000141	±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	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	0.40	0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-2.30	-0.003235	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-1.80	-0.002532	±2.5	PASS

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8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	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	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	0.40	0.000564	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.20	0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.30	0.000423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.50	0.000704	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.70	-0.000986	±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	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-3.10	-0.004360	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-1.20	-0.001688	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-0.40	-0.000564	±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	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.50	-0.002116	±2.5	PASS

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Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.40	-0.003385	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	0.80	0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-1.70	-0.002391	±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	0	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-1.30	-0.001828	±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	30	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	0.20	0.000282	±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	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	0.70	0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-1.70	-0.002394	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-0.50	-0.000704	±2.5	PASS

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Band17	10MHz	64QAM	23790	50RB#0	NV	40	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-2.00	-0.002813	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-3.10	-0.004360	±2.5	PASS

The End

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