

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	22.51	15.28	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.78	15.55	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.42	15.19	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.61	14.38	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.67	14.44	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.59	14.36	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.61	14.38	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.38	15.15	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.7	15.47	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.42	15.19	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.57	14.34	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.57	14.34	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.63	14.40	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.61	14.38	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.36	15.13	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.68	15.45	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.41	15.18	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.47	14.24	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.58	14.35	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.54	14.31	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.51	14.28	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.5	14.27	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.69	14.46	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.95	14.72	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.68	13.45	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.72	13.49	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.62	13.39	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.65	13.42	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.51	14.28	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.55	14.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.91	14.68	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.59	13.36	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.61	13.38	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.67	13.44	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.62	13.39	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.85	14.62	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.46	14.23	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.59	14.36	34.77	PASS

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Band17	5MHz	16QAM	23825	12RB#0	20.57	13.34	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.62	13.39	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.49	13.26	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.54	13.31	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.62	15.39	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.6	15.37	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.44	15.21	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.62	14.39	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.64	14.41	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.63	14.40	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.65	14.42	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.46	15.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.62	15.39	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.57	15.34	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.62	14.39	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.57	14.34	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.63	14.40	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.63	14.40	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.46	15.23	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.6	15.37	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.59	15.36	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.49	14.26	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.59	14.36	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.63	14.40	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.58	14.35	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.58	14.35	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.7	14.47	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.81	14.58	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.67	13.44	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.63	13.40	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.62	13.39	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.66	13.43	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.73	14.50	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.56	14.33	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.76	14.53	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.62	13.39	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.58	13.35	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.63	13.40	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.63	13.40	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.71	14.48	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.63	14.40	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.85	14.62	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.62	13.39	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.62	13.39	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.5	13.27	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.58	13.35	34.77	PASS

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Remark:

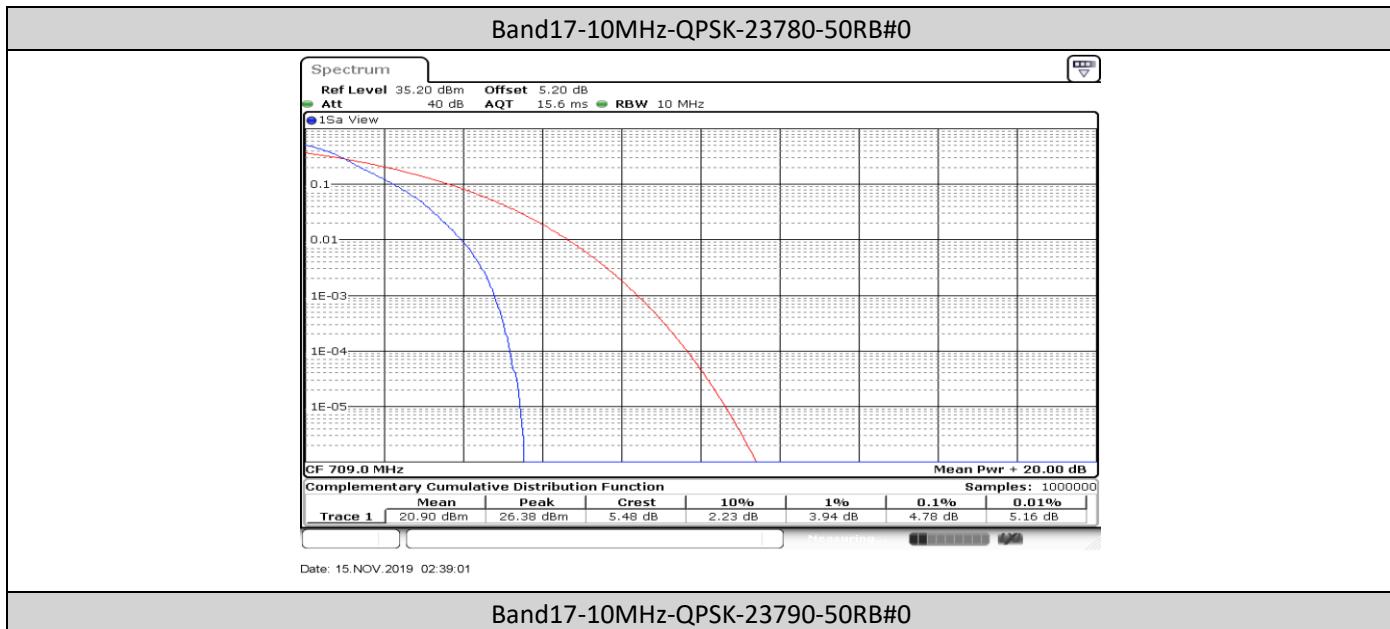
a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,
 ERP [dBm] = Conducted Power [dBm] + Gain [dBd]
 EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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	4.78	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.78	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.75	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.71	13	PASS

2.2. Test Plots



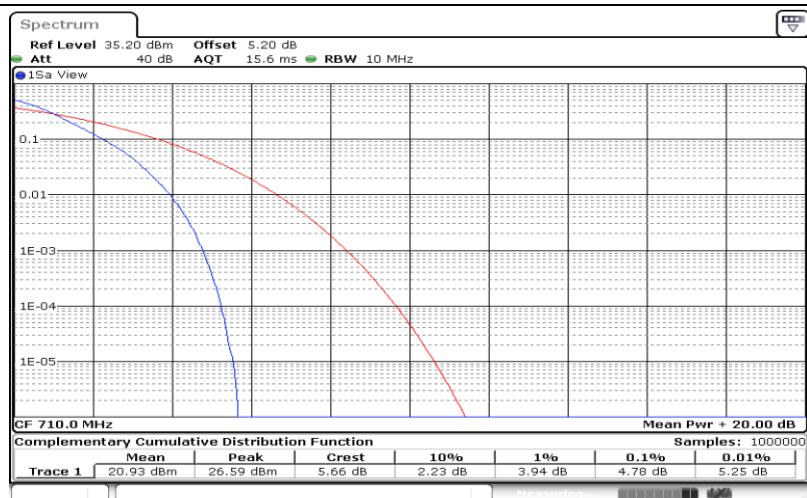
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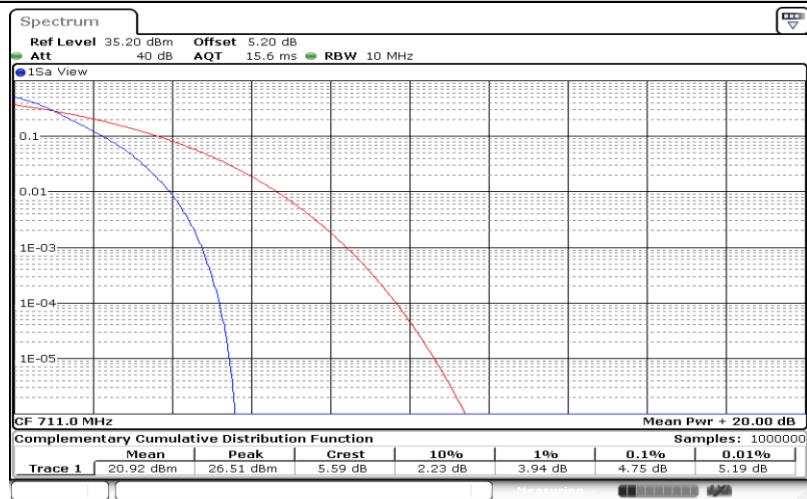


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Date: 15.NOV.2019 02:39:21

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Date: 15.NOV.2019 02:39:40

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

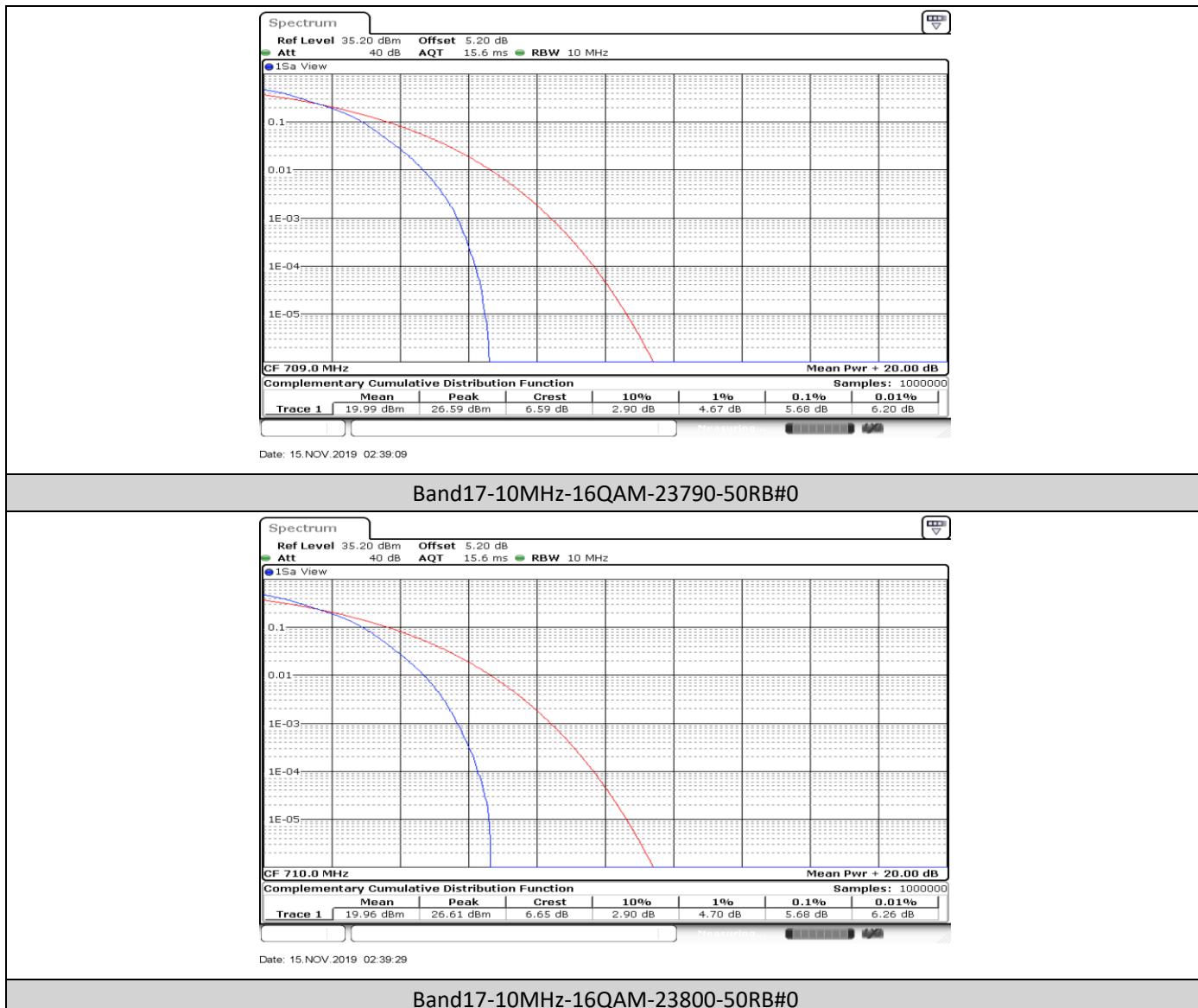
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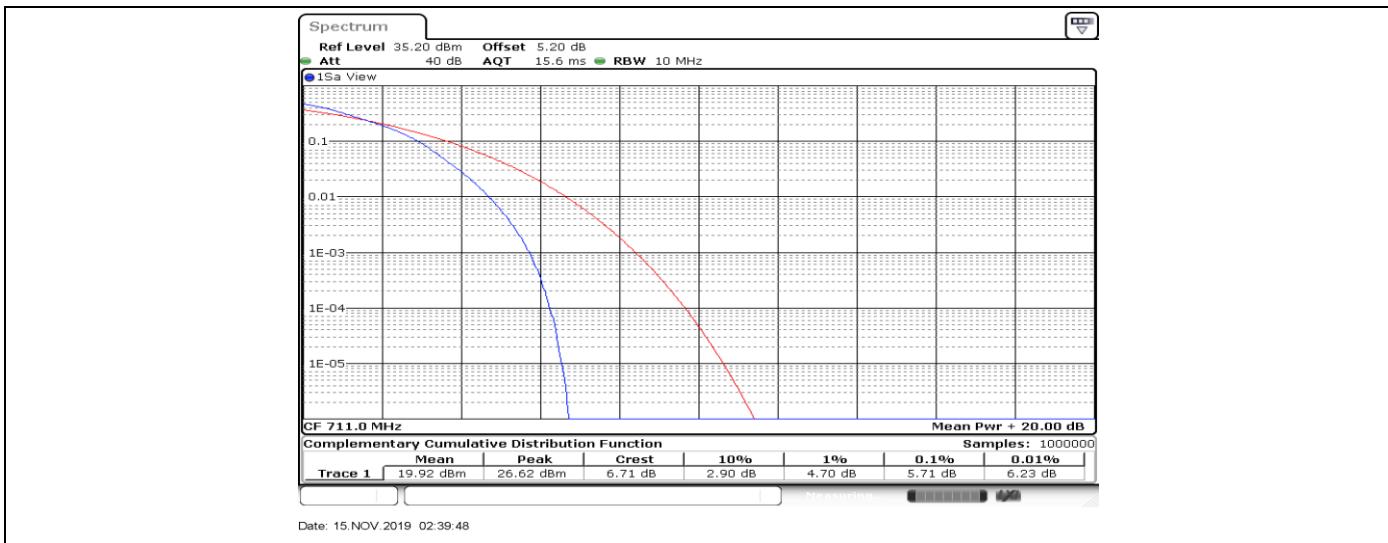
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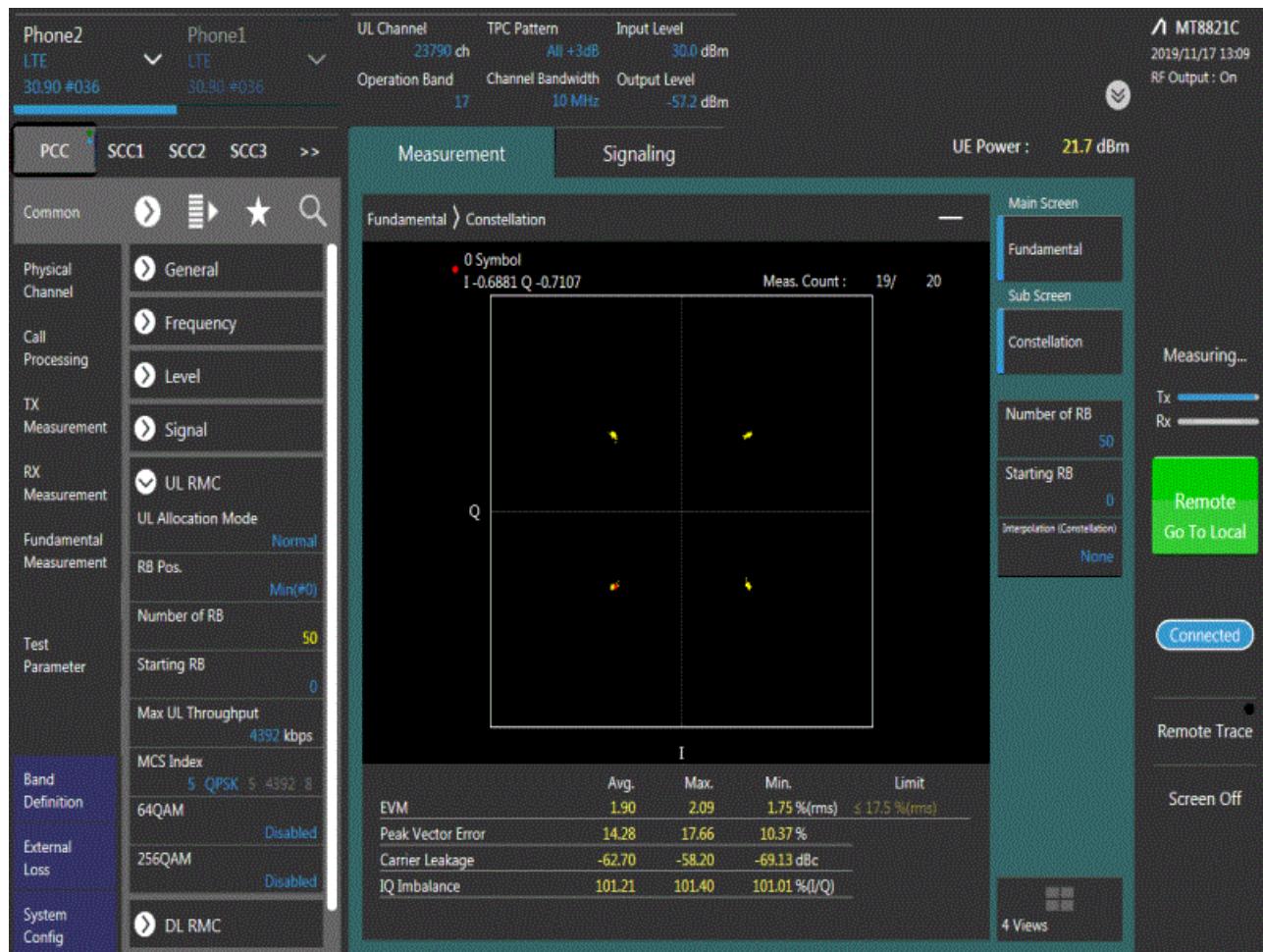
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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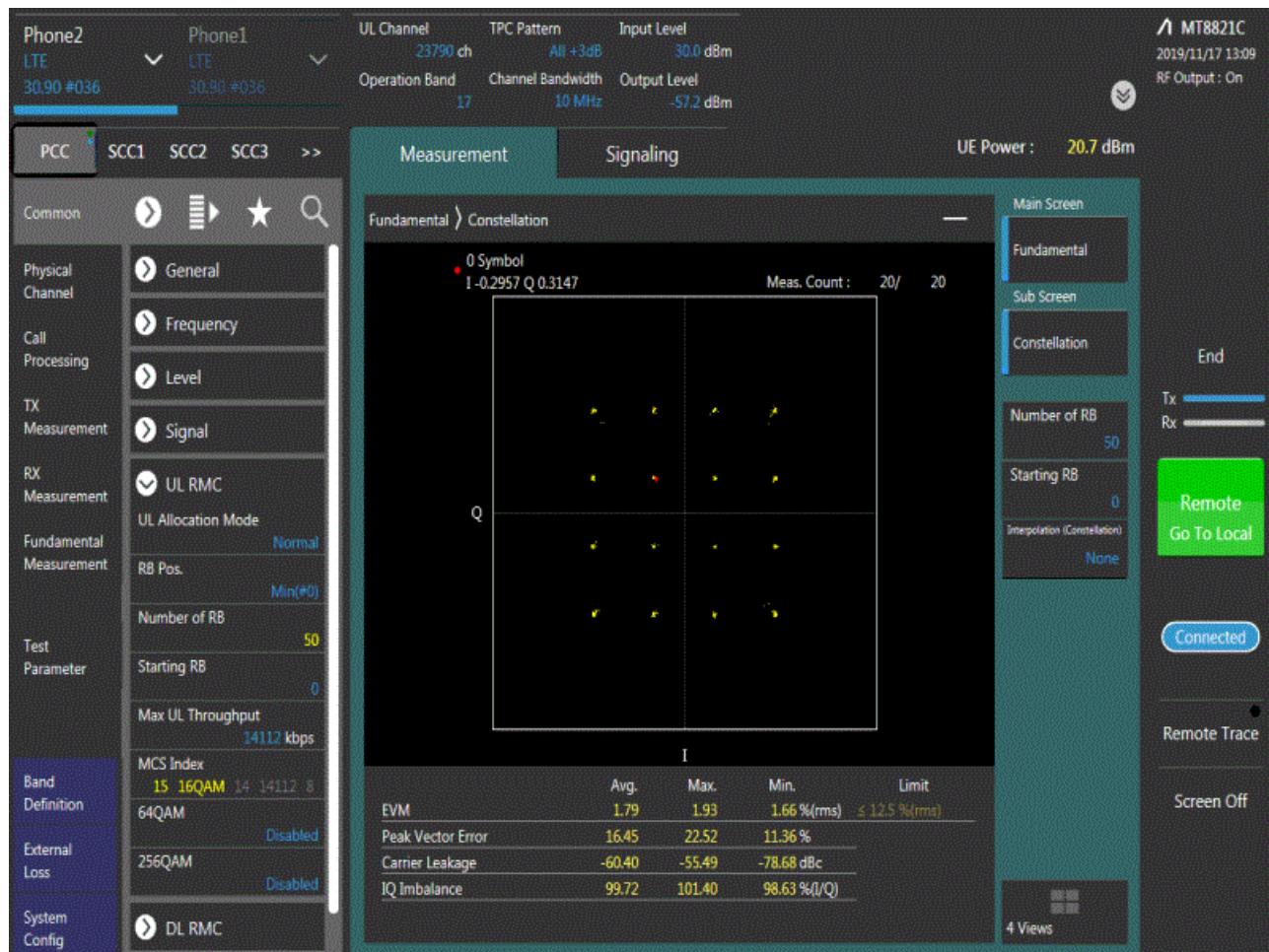


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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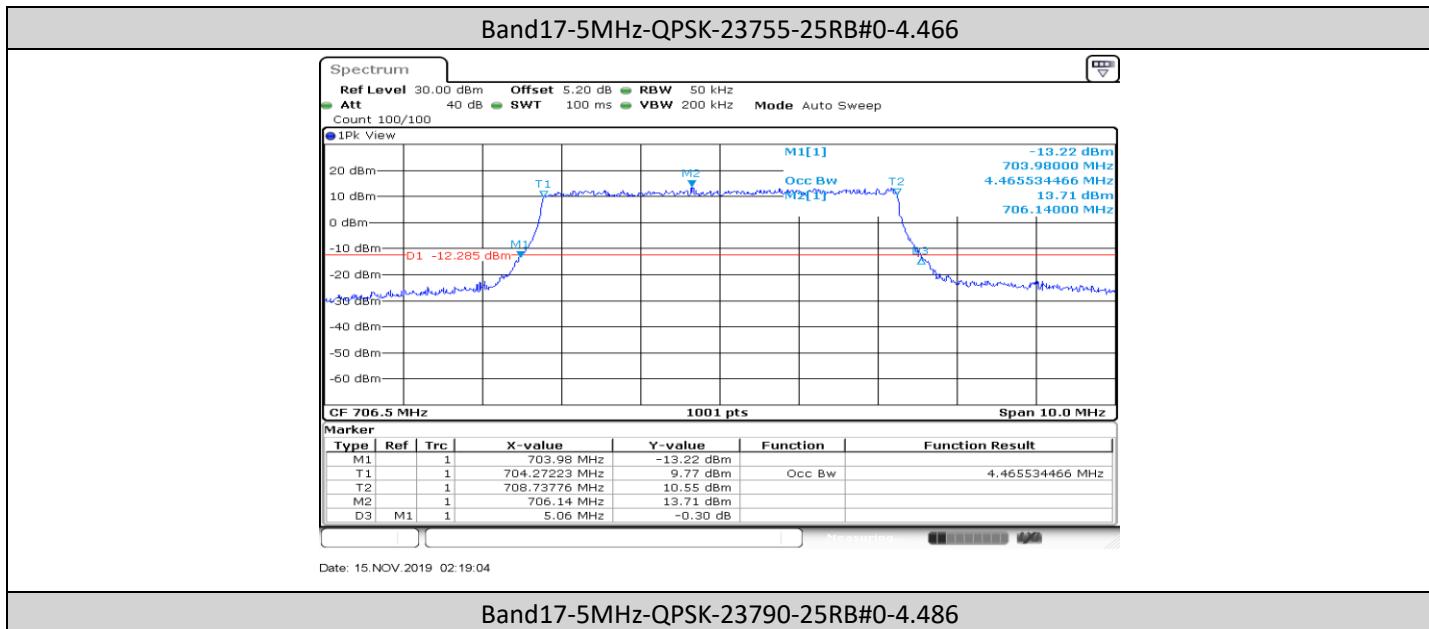
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.466	5.060	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	5.090	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.486	5.180	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	5.070	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	5.050	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	5.090	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.980	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.920	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.780	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.931	9.700	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.931	9.940	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.931	9.840	PASS

4.2. Test Plots

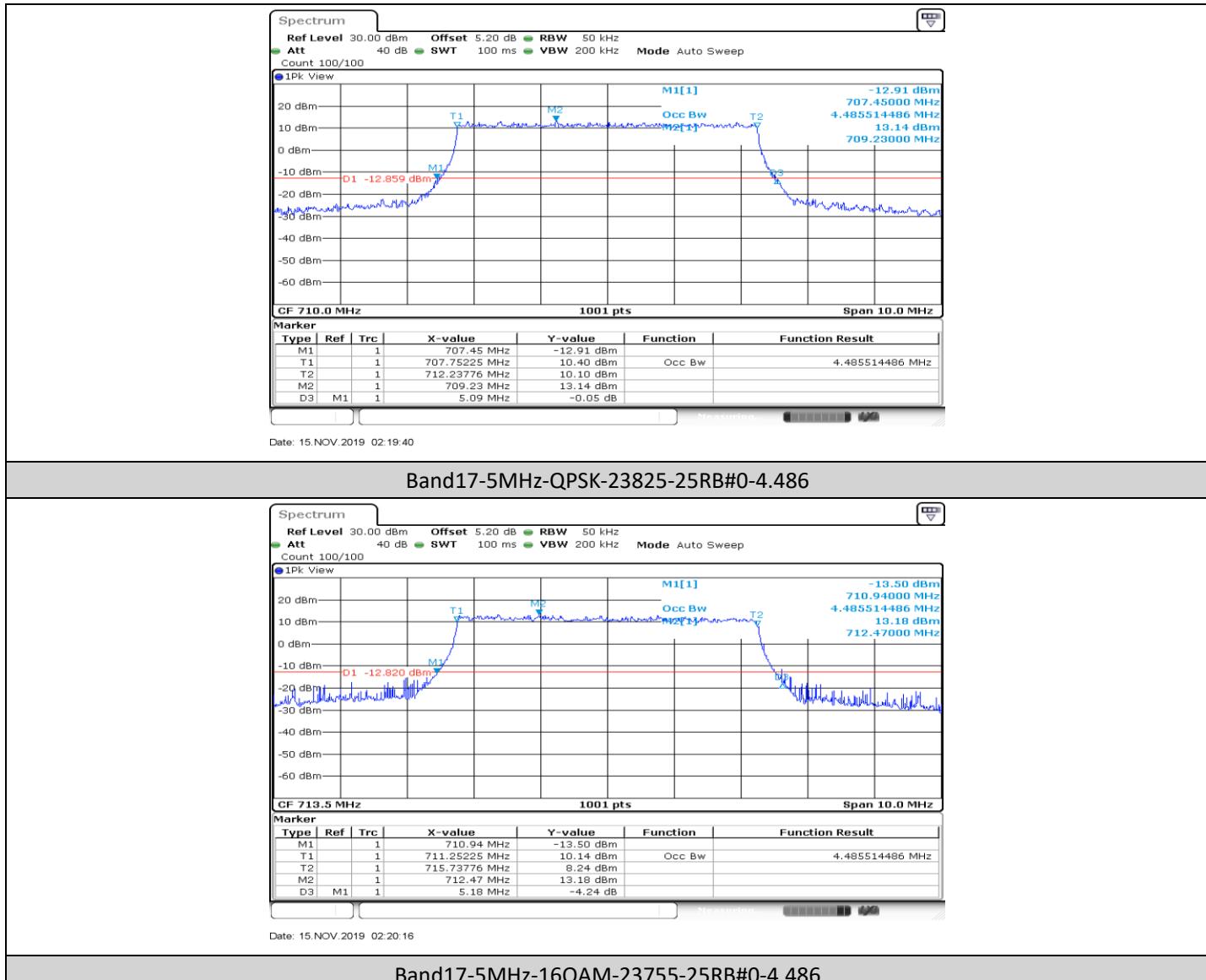


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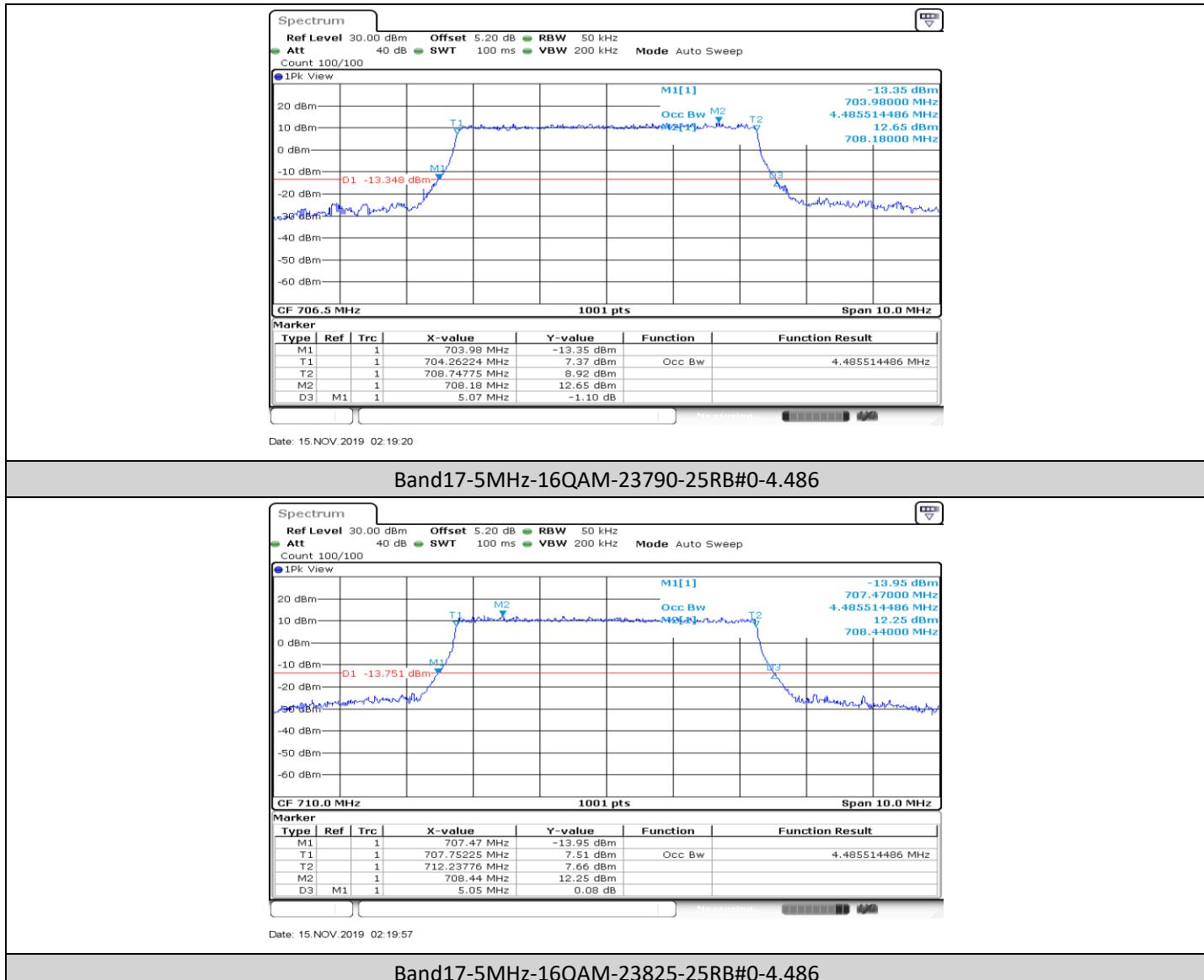
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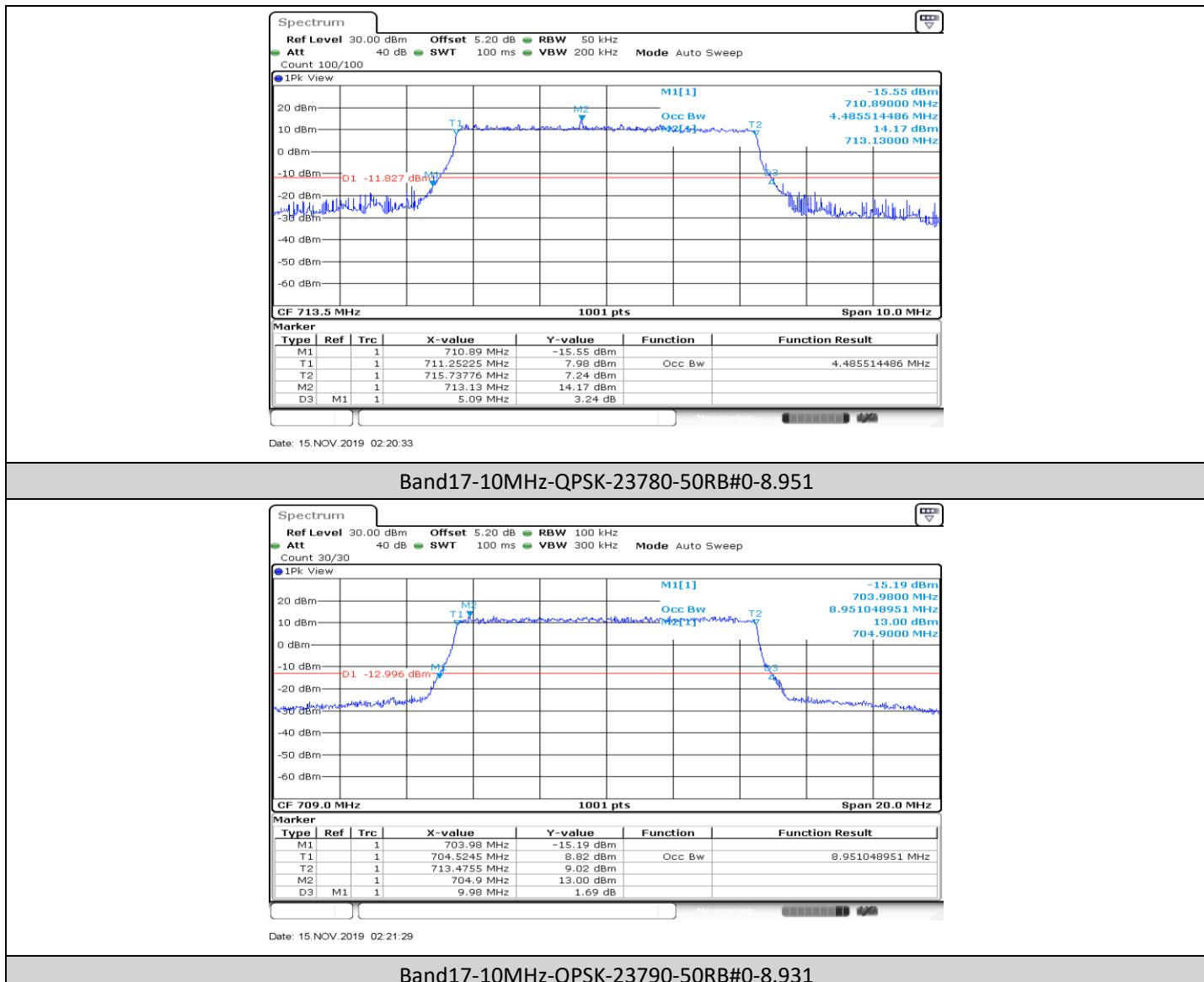
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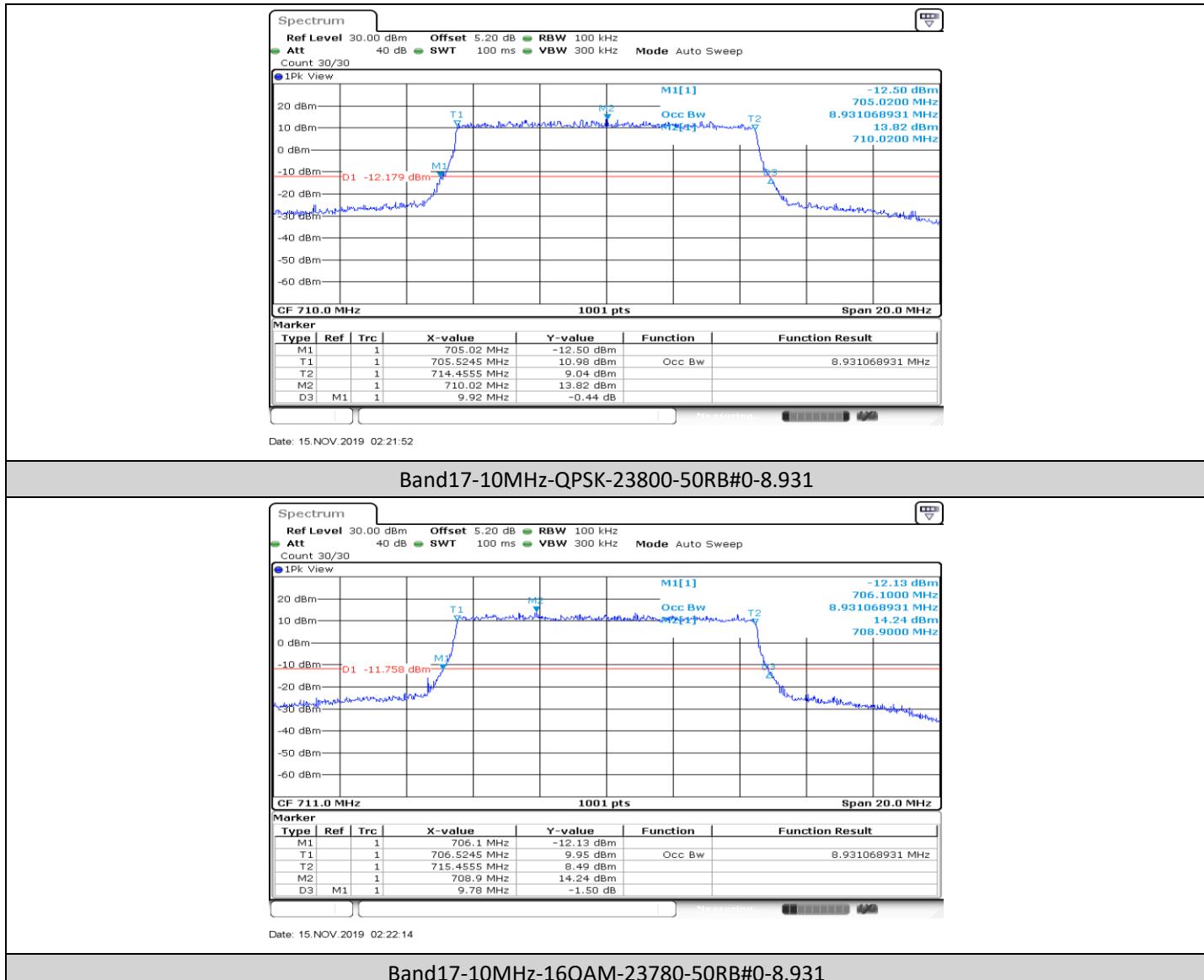
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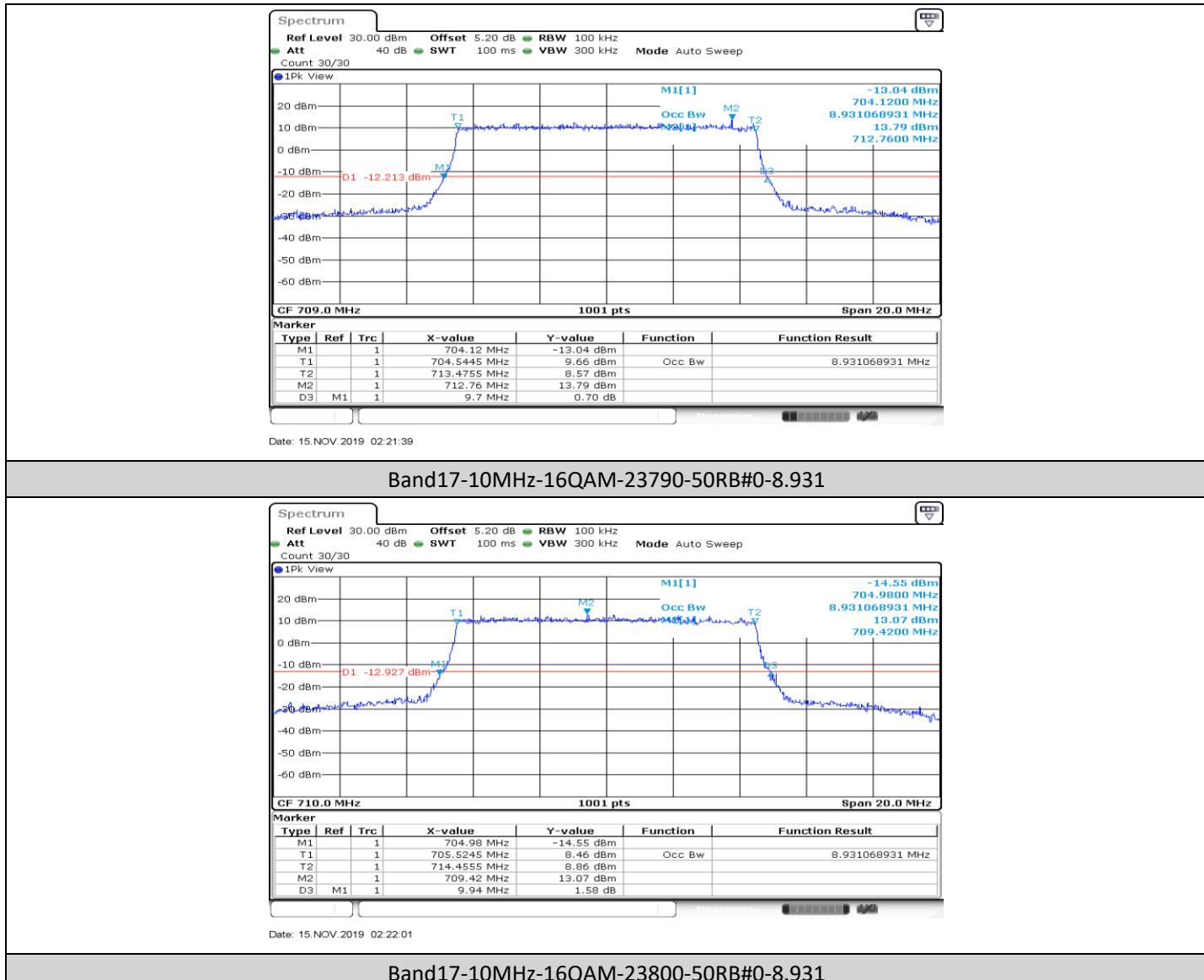


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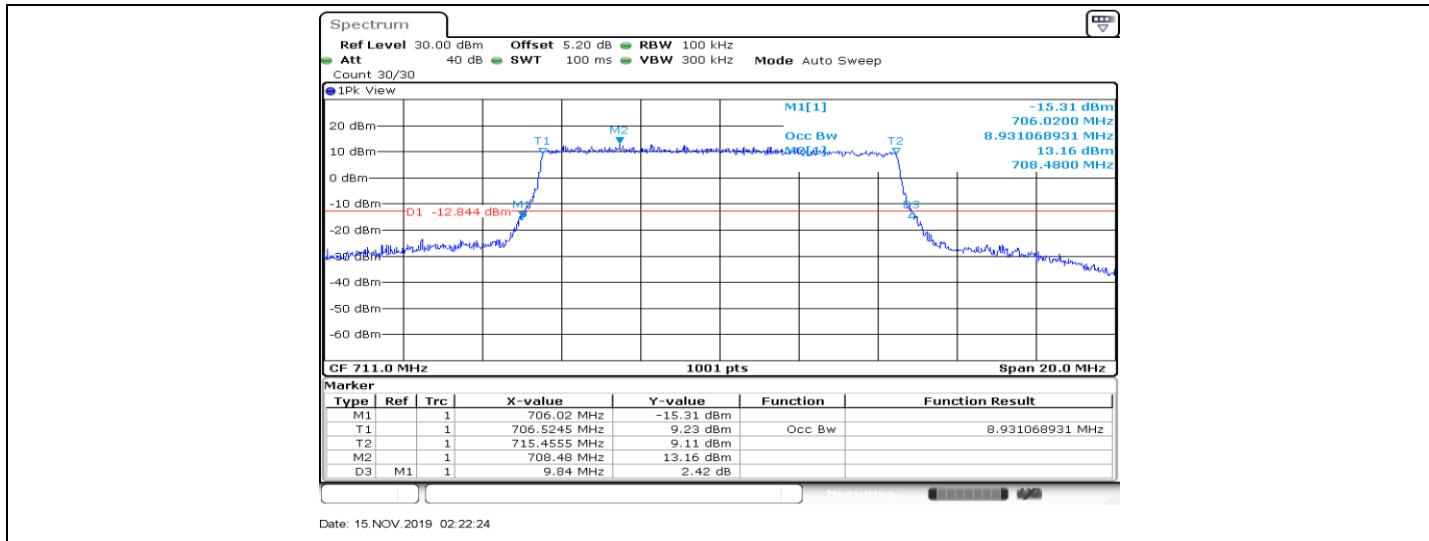


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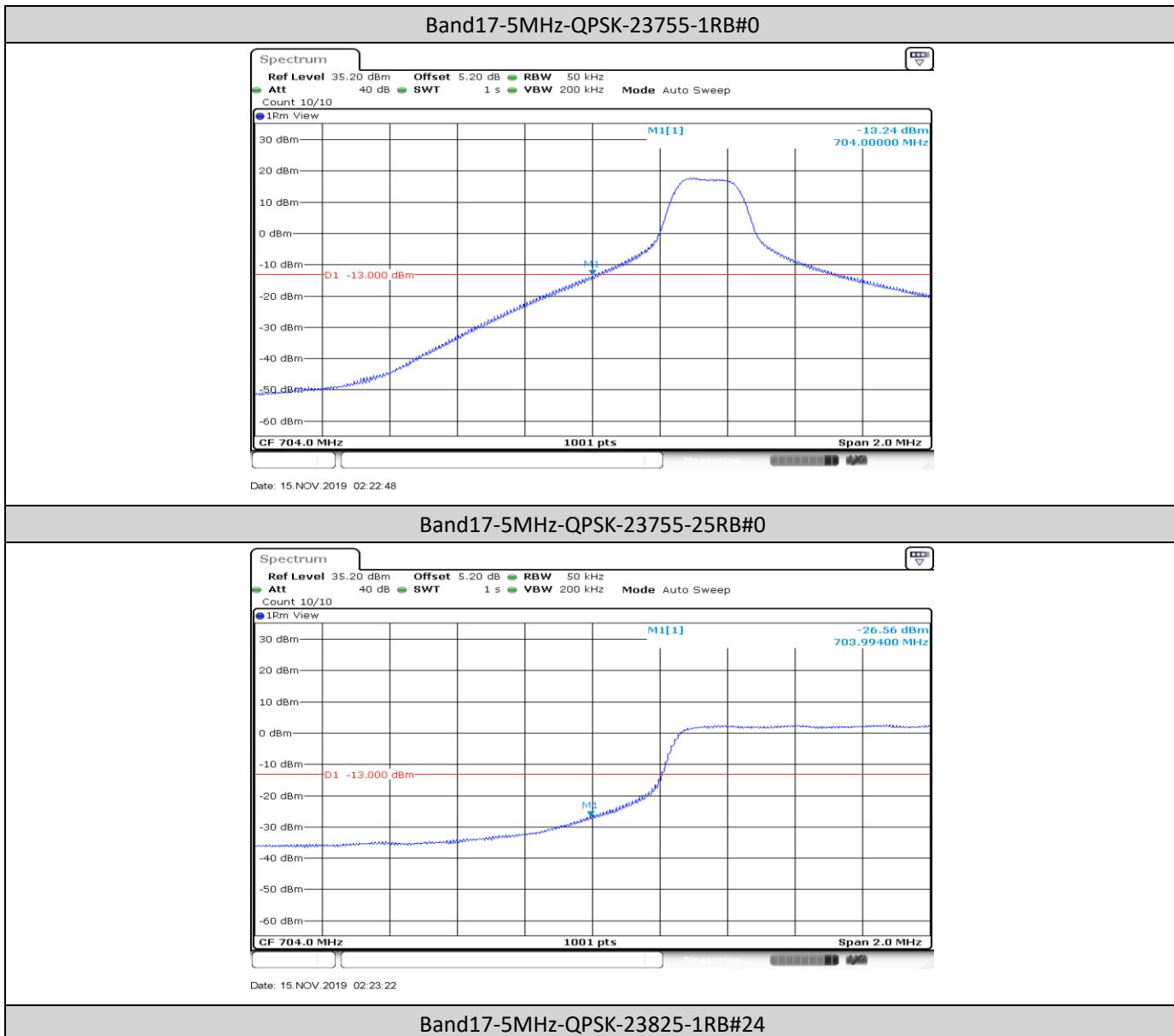


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5. Band Edge Compliance

5.1. Test Plots



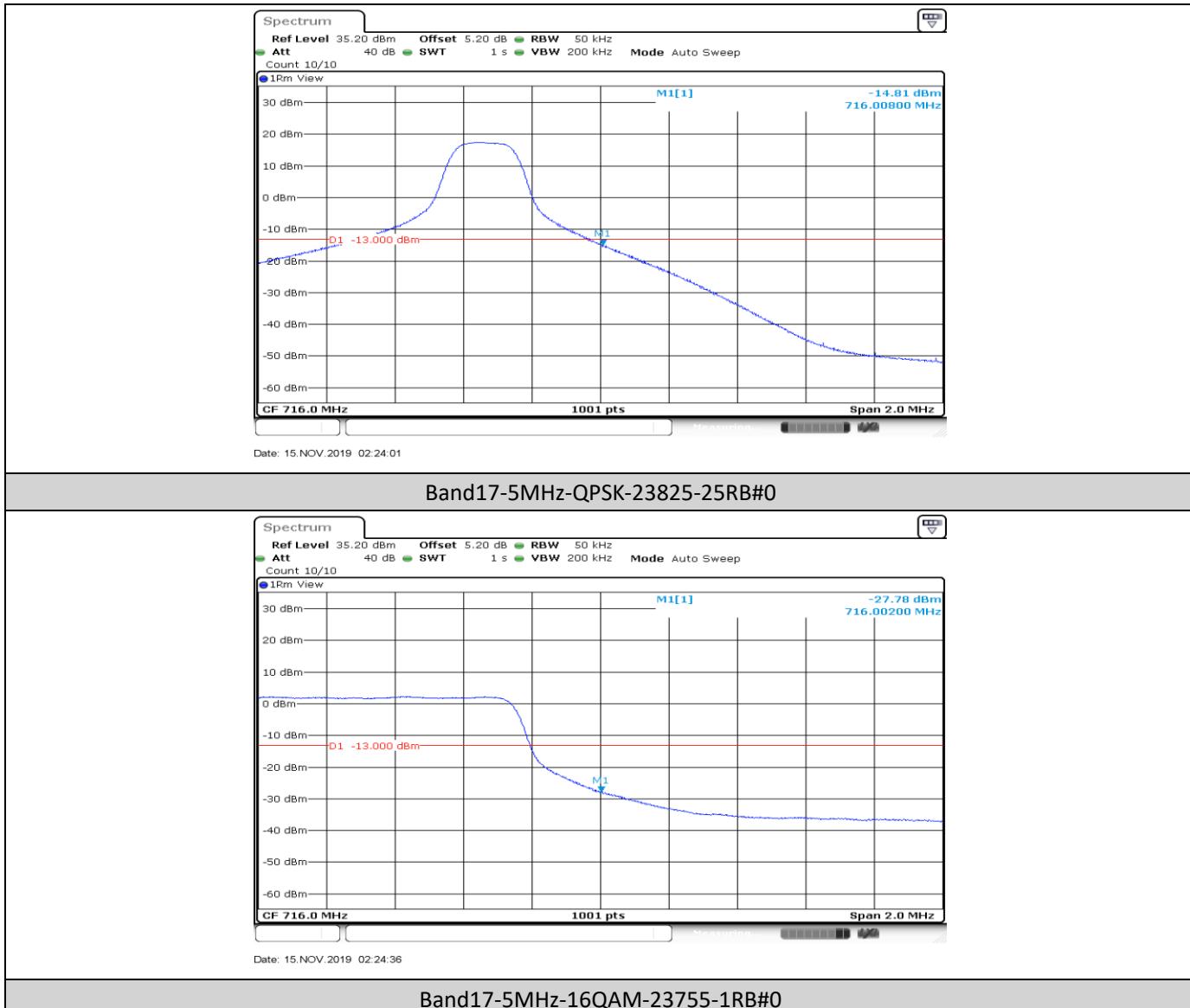
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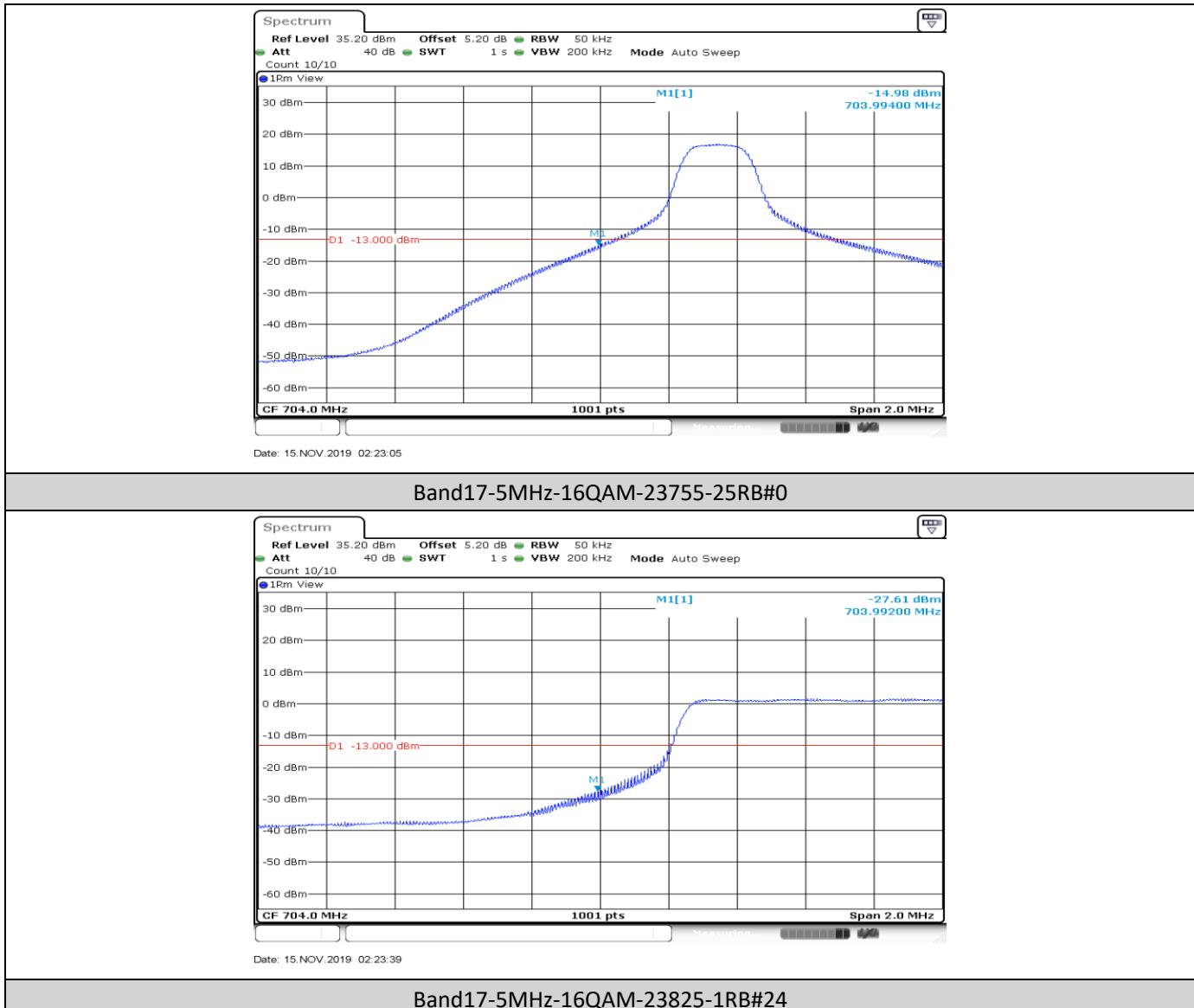
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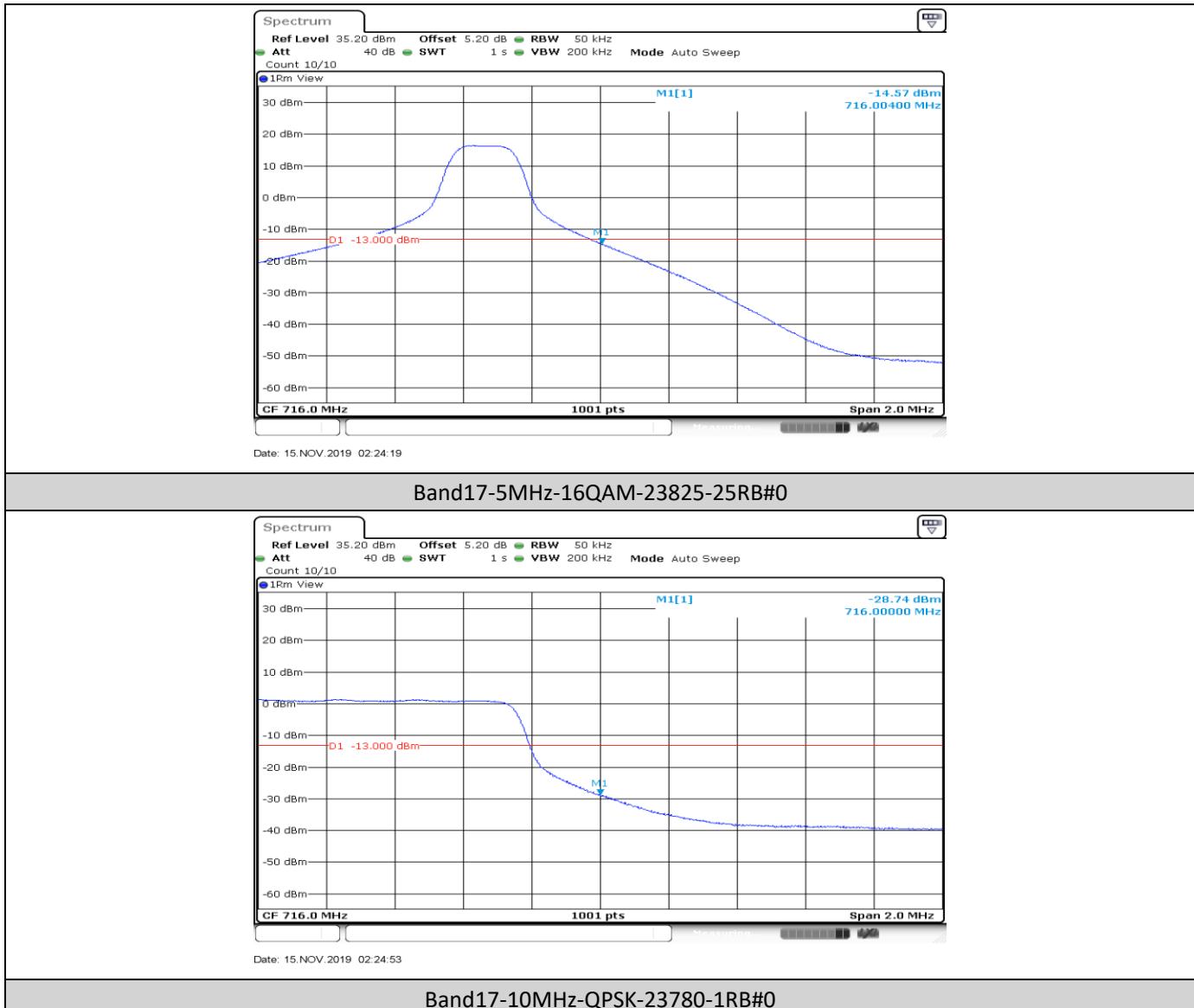
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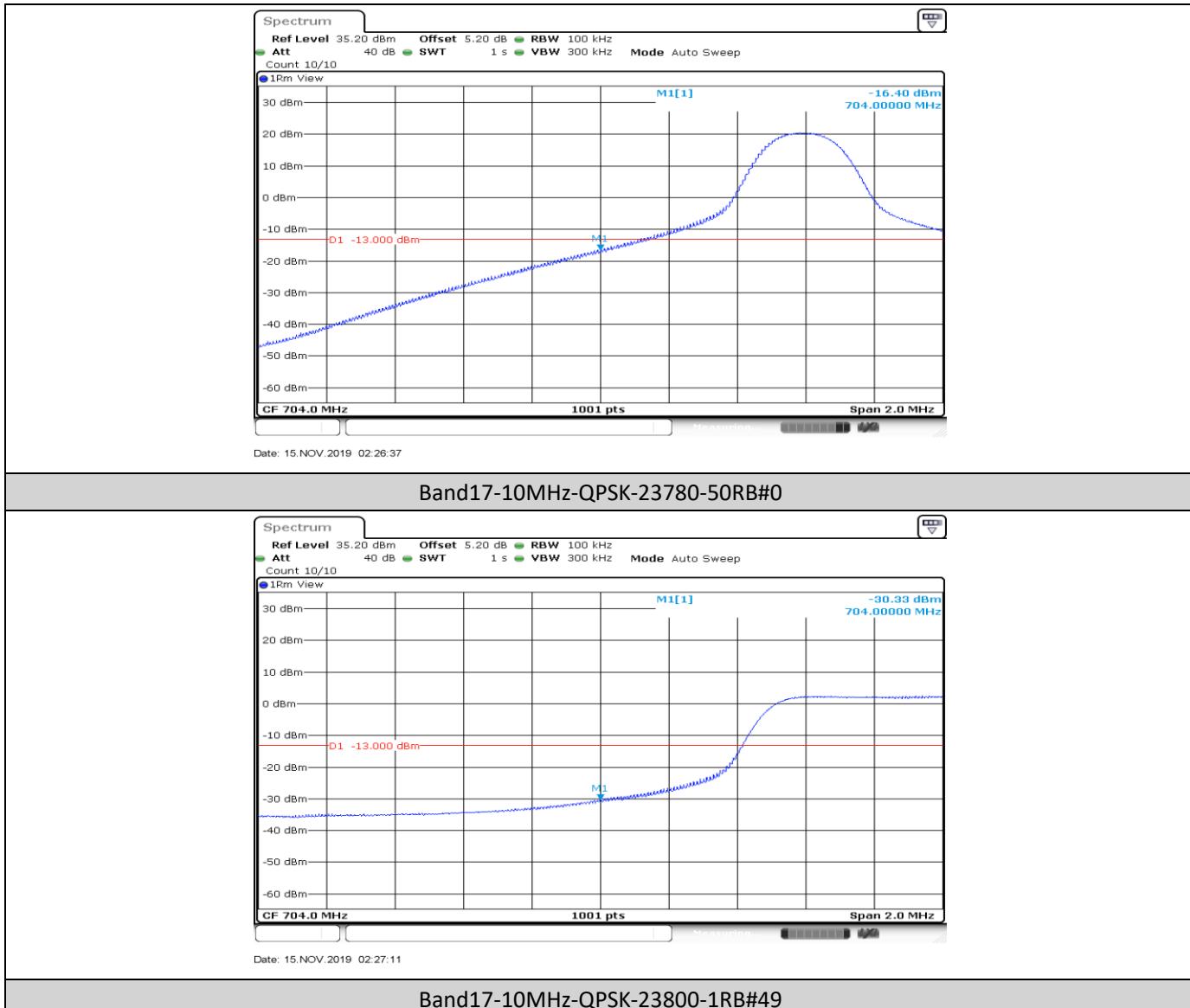
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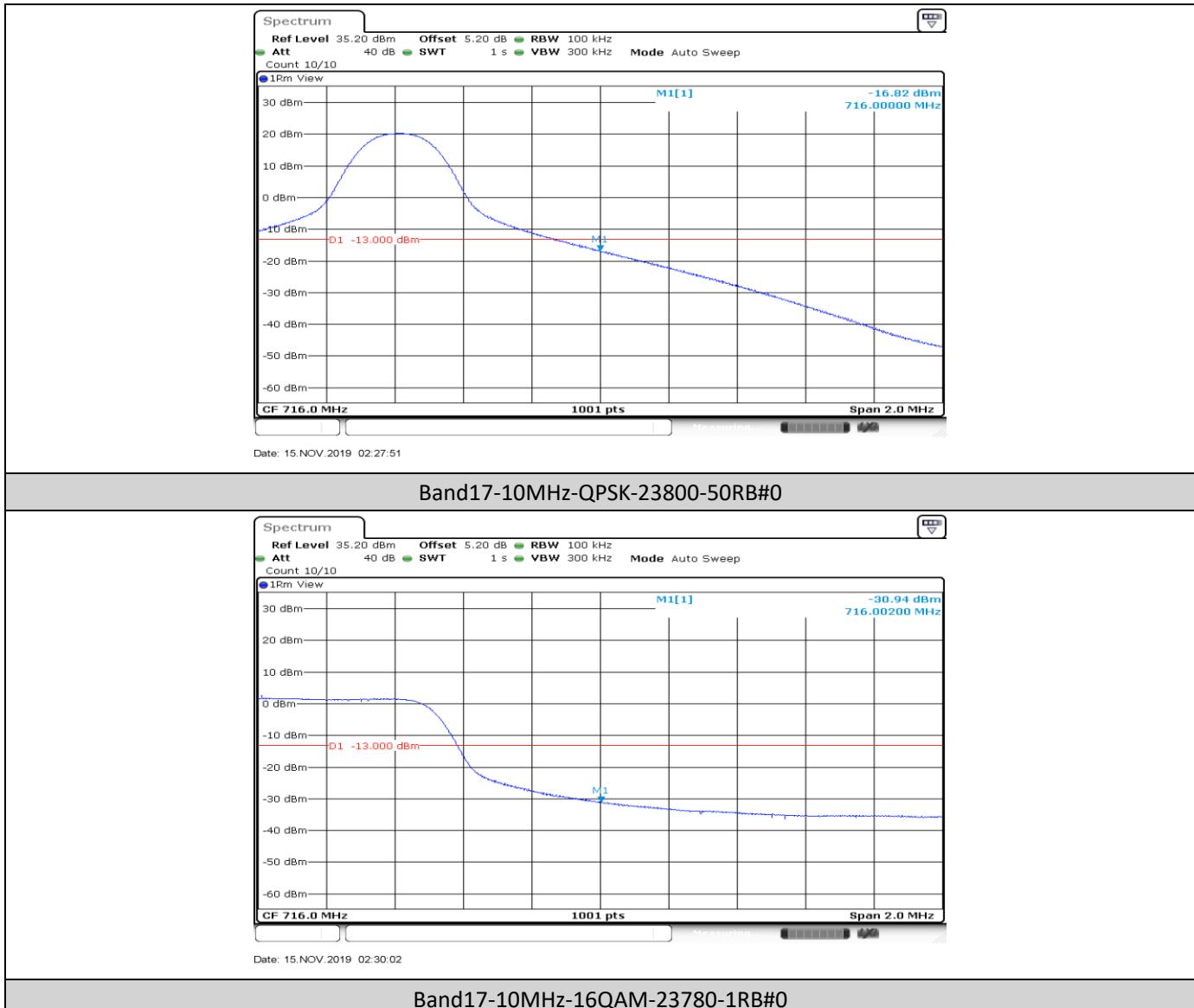
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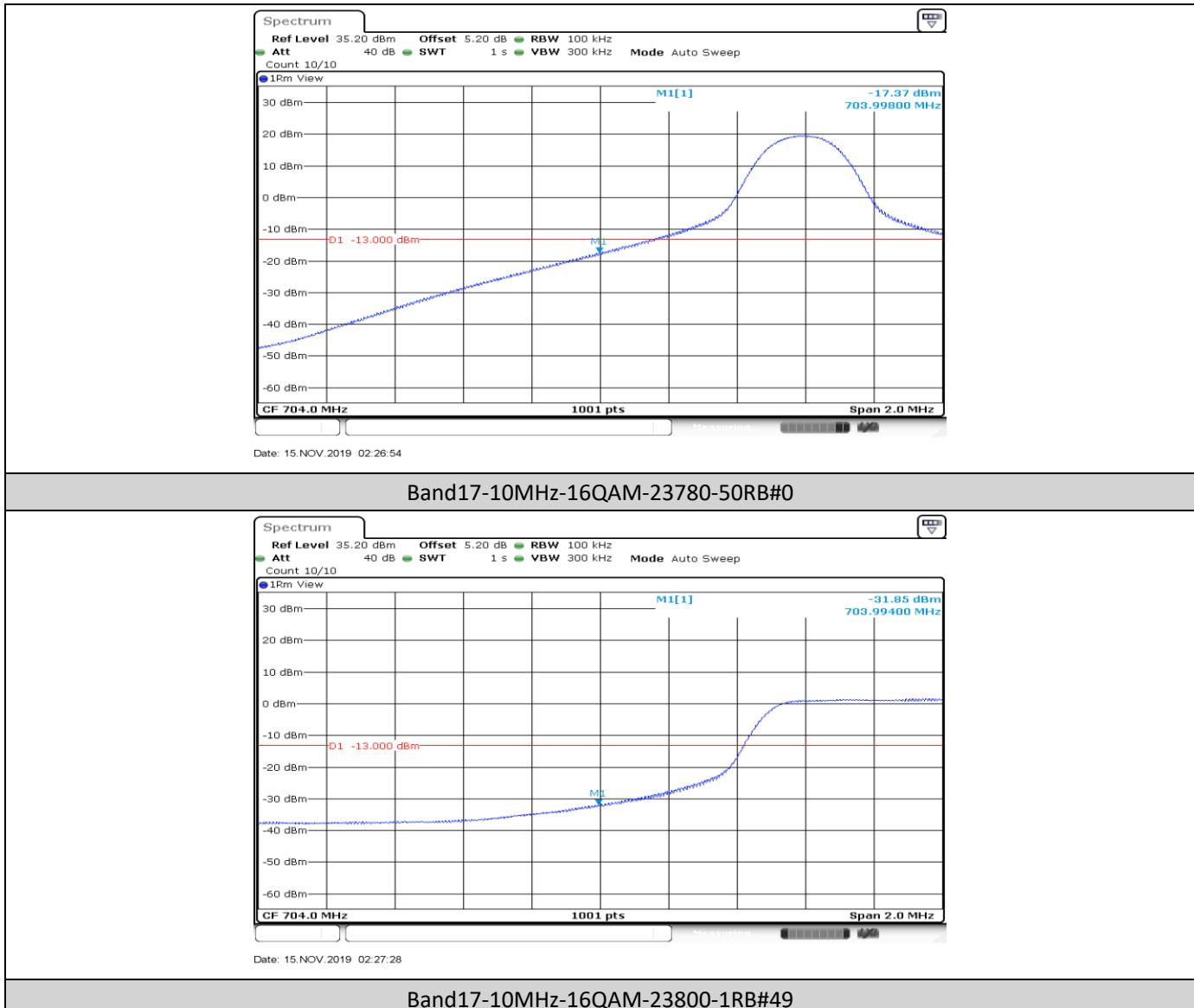
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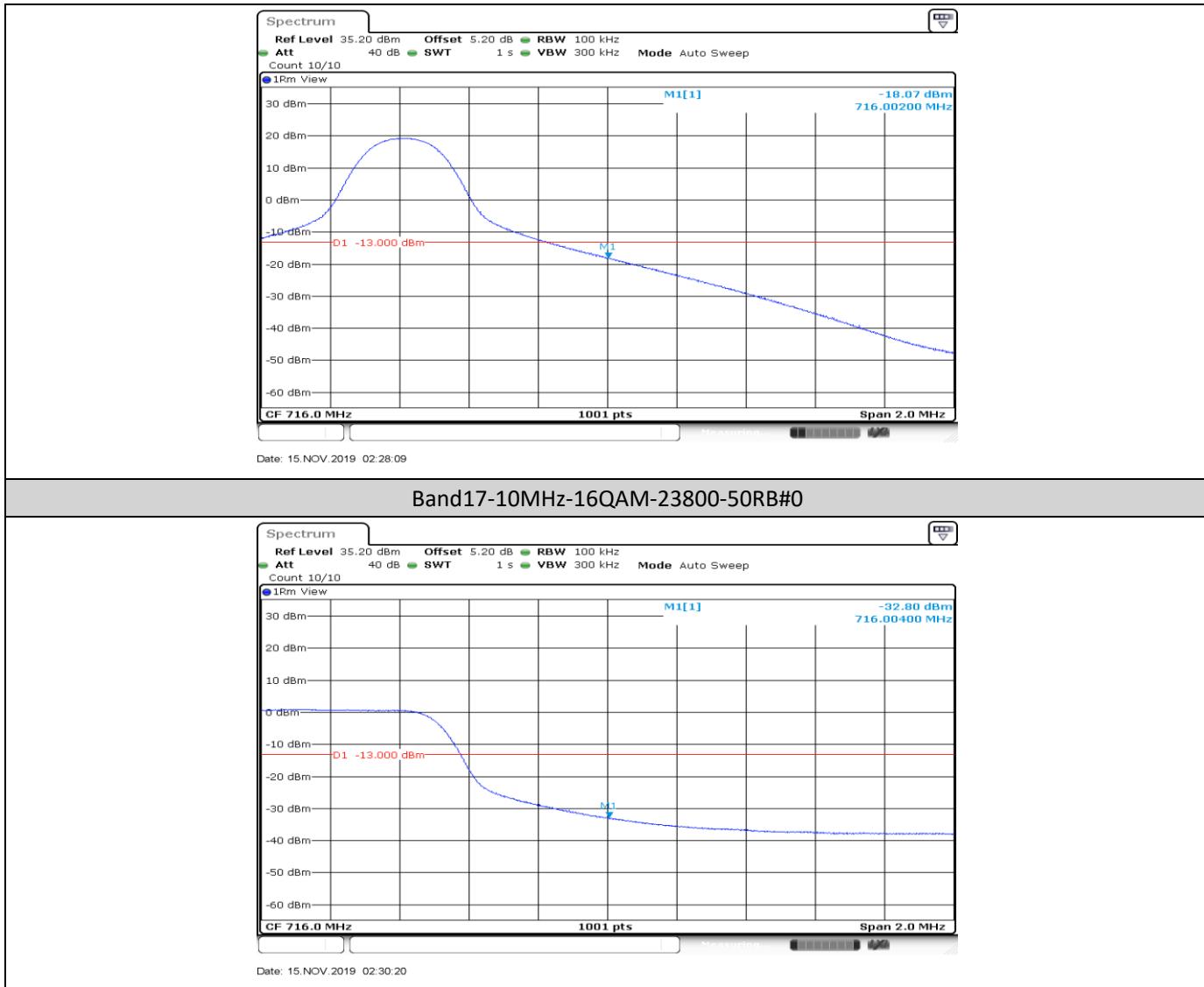
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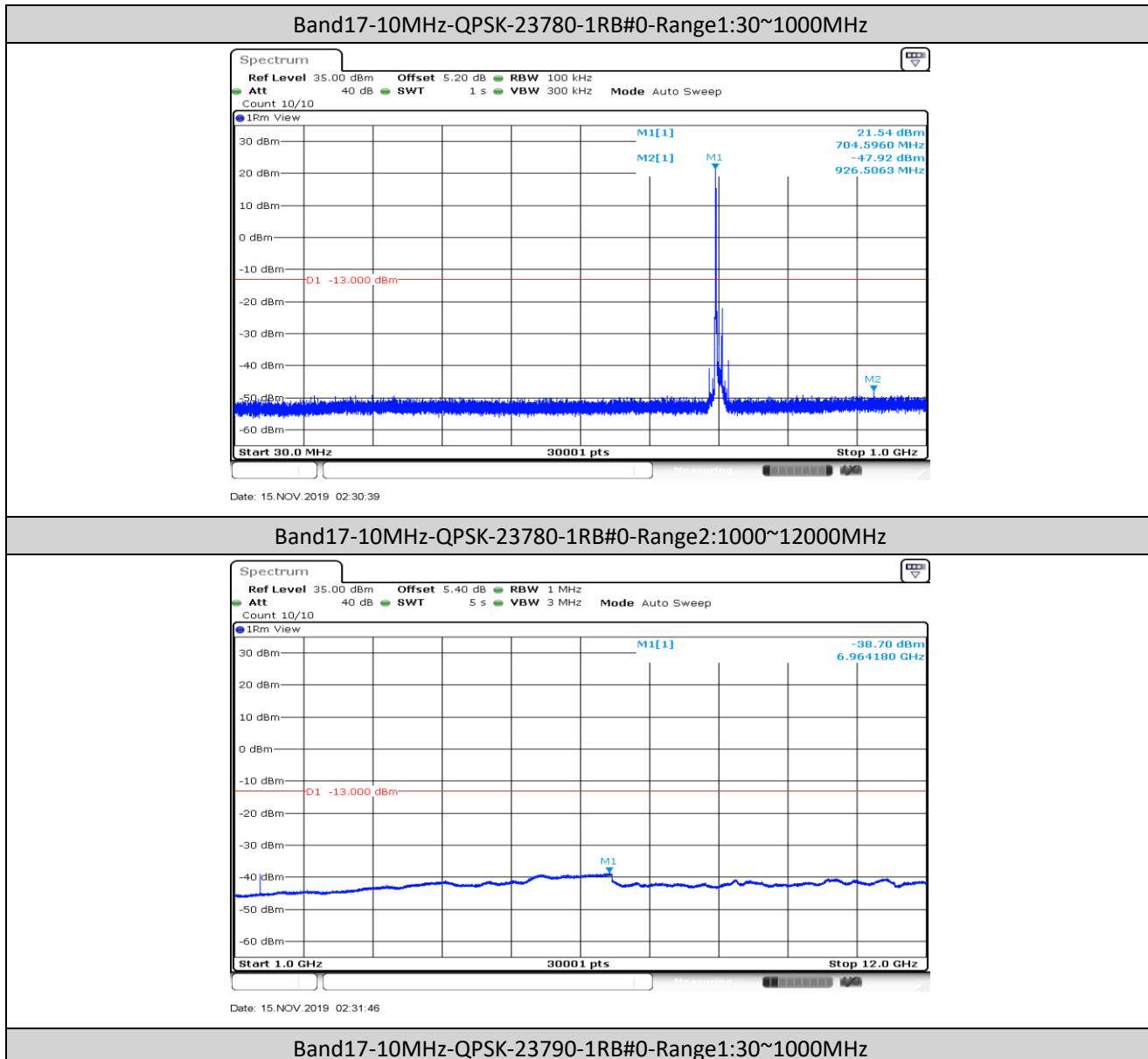
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

6.1. Test Plots

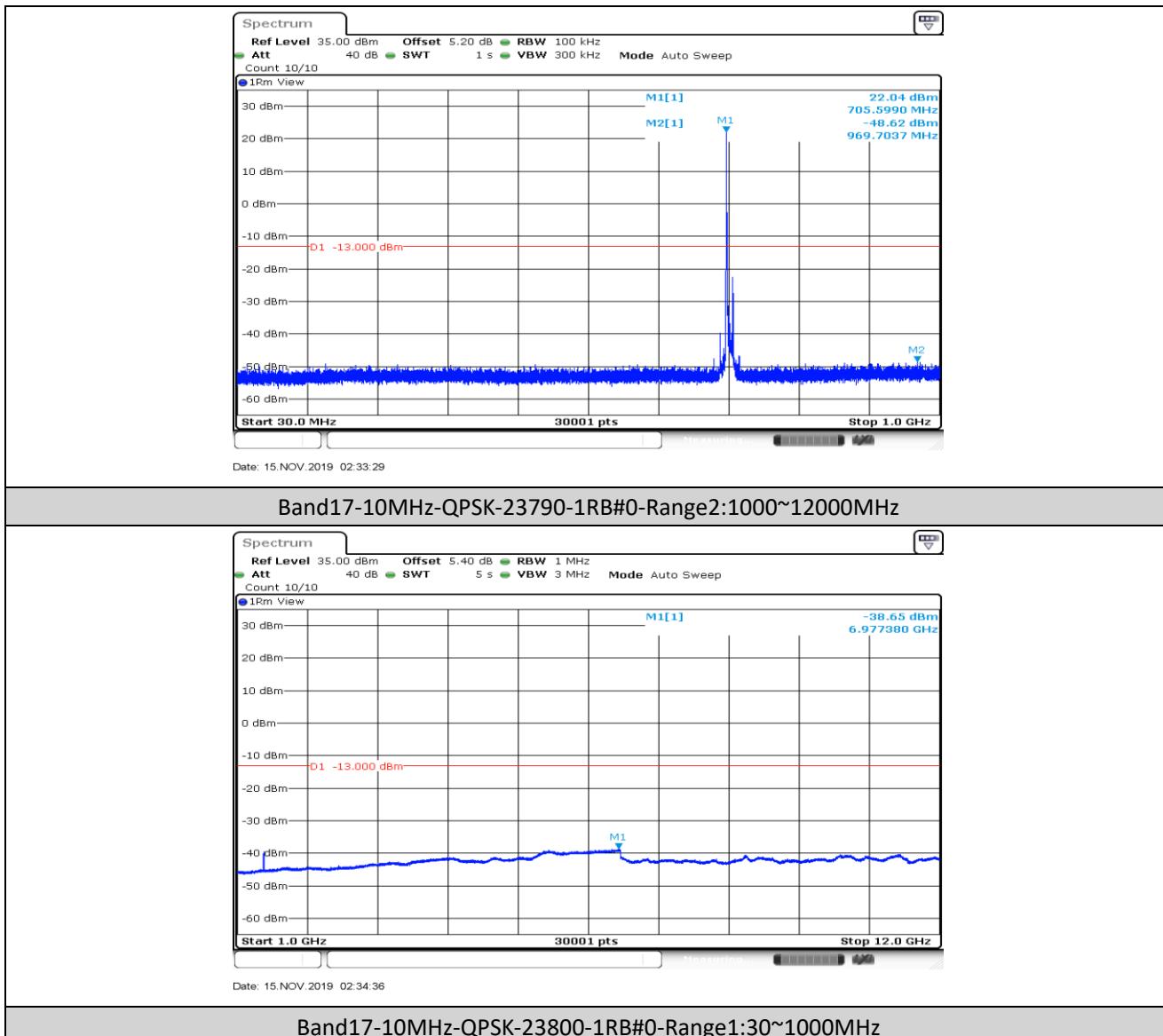


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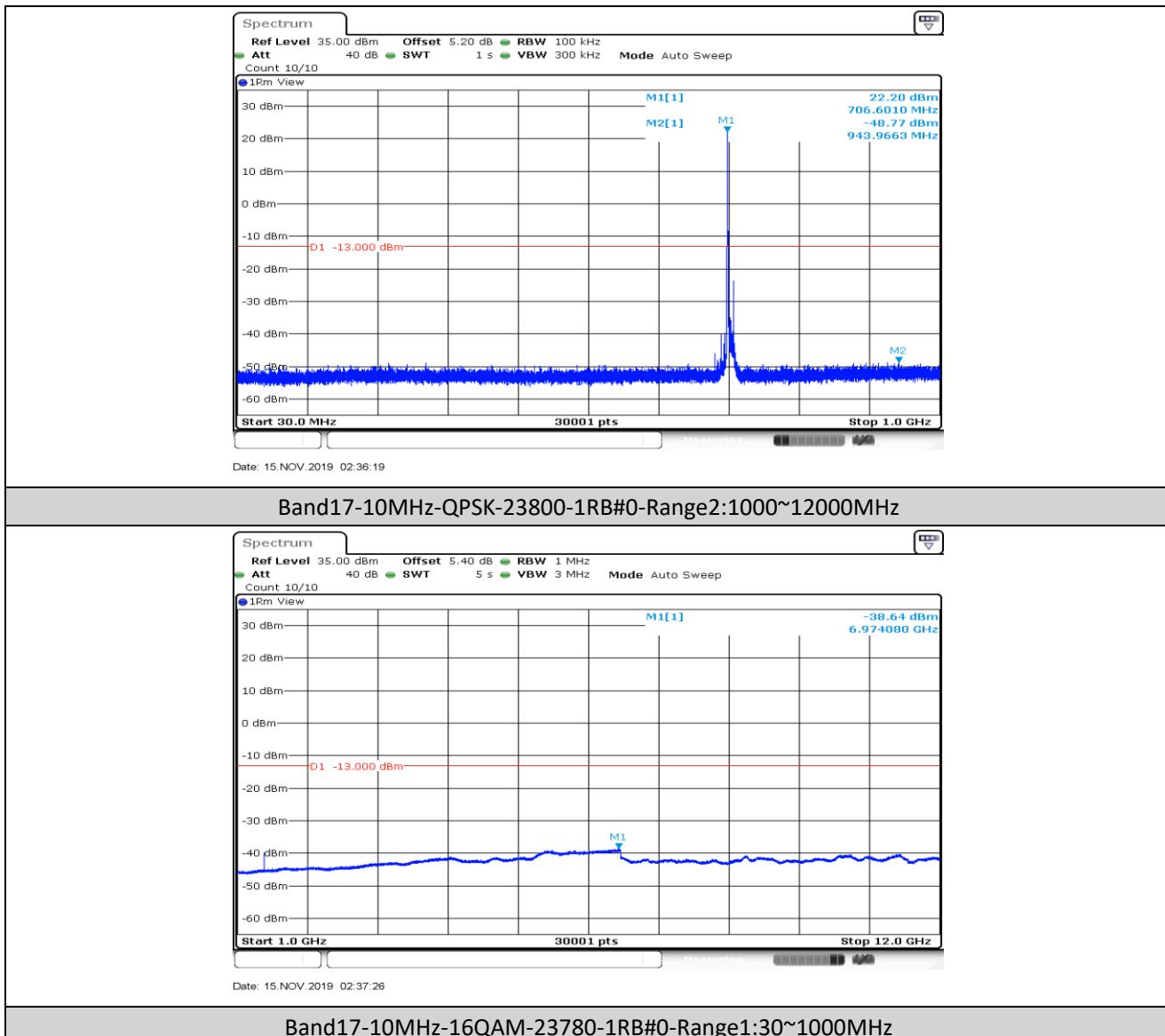
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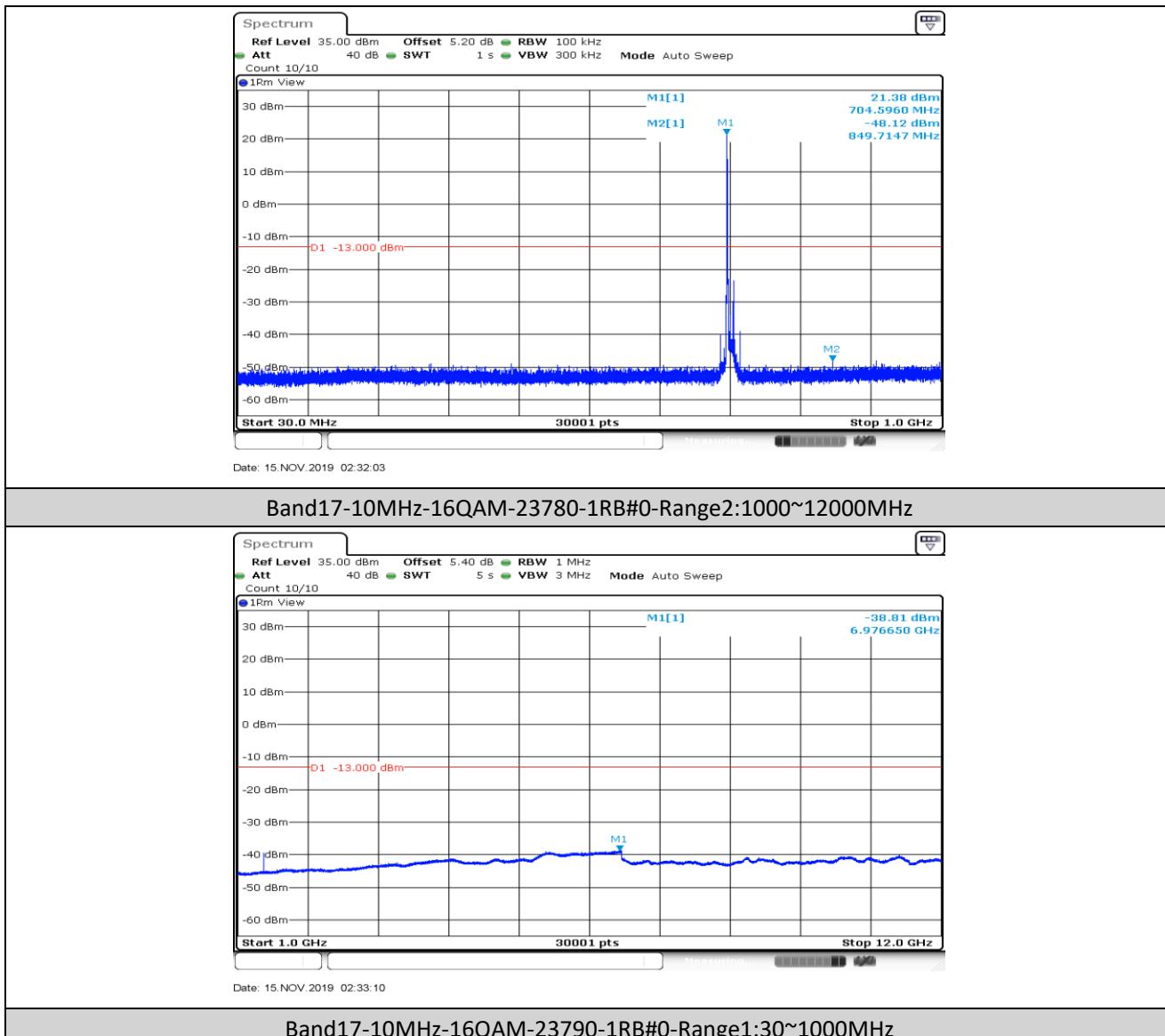
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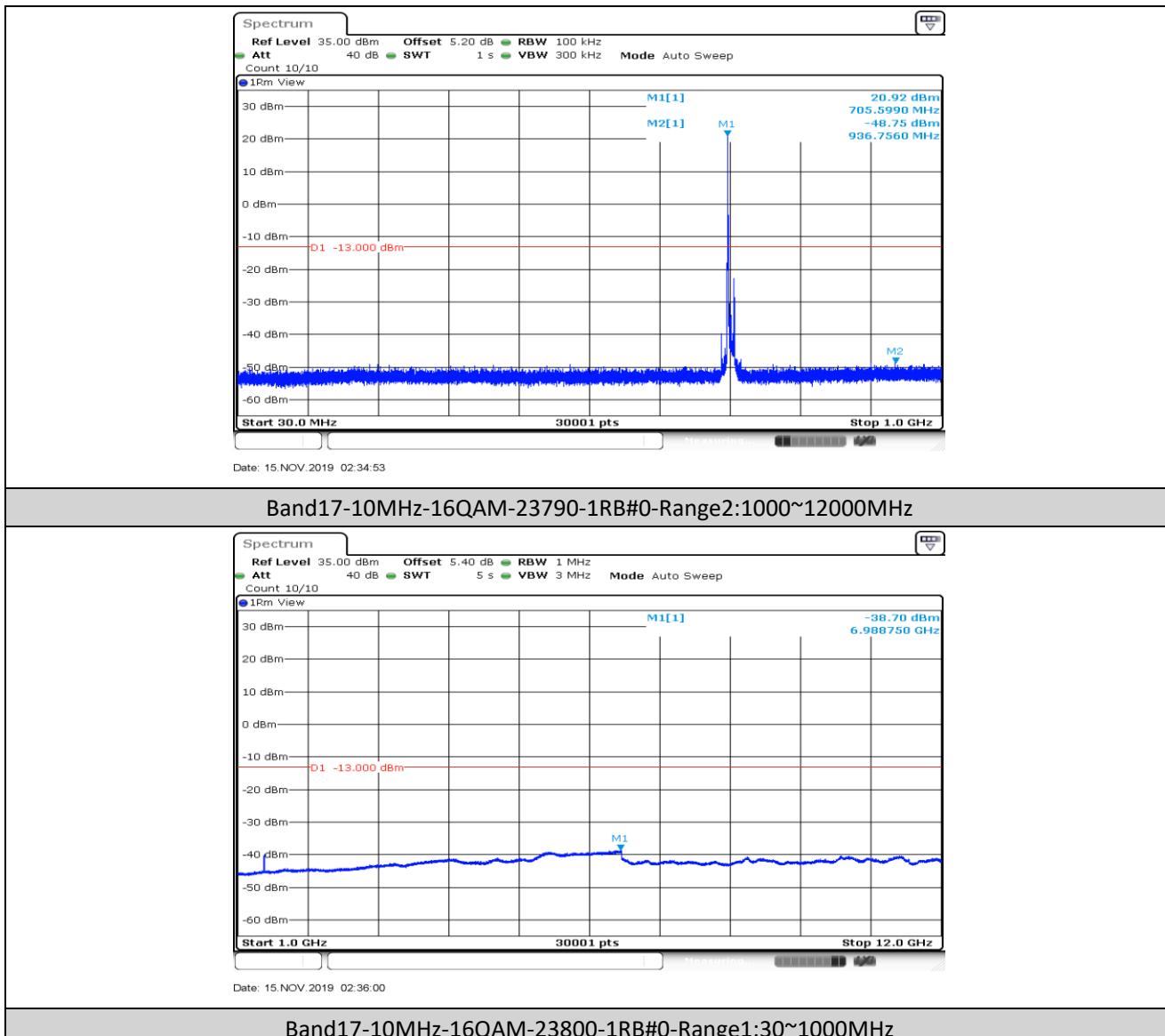
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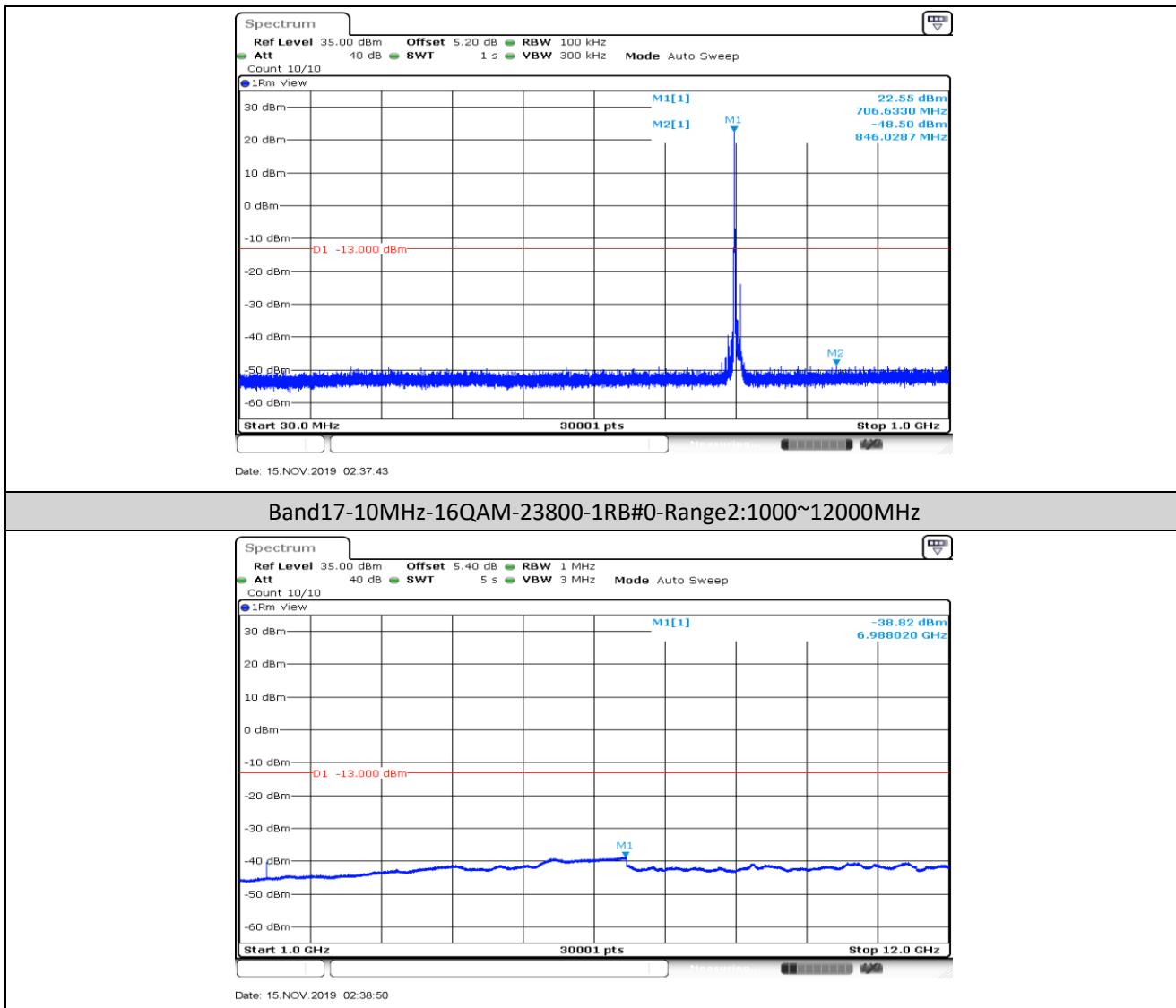
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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.0775	-65.47	-13.00	52.47	271	244	Vertical
1408.8818	-51.27	-13.00	38.27	247	337	Vertical
2818.3637	-44.78	-13.00	31.78	254	156	Vertical
3523.2209	-45.02	-13.00	32.02	263	31	Vertical
4227.6491	-42.93	-13.00	29.93	248	4	Vertical
4932.0773	-40.37	-13.00	27.37	278	57	Vertical
40.5735	-64.59	-13.00	51.59	184	84	Horizontal
1408.8818	-52.61	-13.00	39.61	197	142	Horizontal
2818.3637	-44.92	-13.00	31.92	174	126	Horizontal
3522.6209	-48.20	-13.00	35.20	165	4	Horizontal
4227.6491	-44.30	-13.00	31.30	162	31	Horizontal
4934.4774	-42.99	-13.00	29.99	187	350	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
107.0219	-66.07	-13.00	53.07	184	321	Vertical
1410.8822	-51.81	-13.00	38.81	174	351	Vertical
2822.3645	-44.28	-13.00	31.28	196	160	Vertical
3528.0211	-45.41	-13.00	32.41	188	31	Vertical
4233.6493	-43.15	-13.00	30.15	195	4	Vertical
4939.2776	-40.28	-13.00	27.28	247	189	Vertical
42.7076	-64.96	-13.00	51.96	241	327	Horizontal
1410.8822	-52.94	-13.00	39.94	295	147	Horizontal
2822.3645	-45.51	-13.00	32.51	278	123	Horizontal
3528.0211	-47.92	-13.00	34.92	265	274	Horizontal
4233.6493	-42.21	-13.00	29.21	287	248	Horizontal
4939.2776	-41.22	-13.00	28.22	225	354	Horizontal

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
107.2159	-65.36	-13.00	52.36	271	246	Vertical
1412.8826	-51.81	-13.00	38.81	247	324	Vertical
2826.3653	-44.02	-13.00	31.02	265	161	Vertical
3532.8213	-44.67	-13.00	31.67	229	31	Vertical
4239.6496	-43.51	-13.00	30.51	271	4	Vertical
4946.4779	-39.01	-13.00	26.01	258	56	Vertical
43.1442	-64.07	-13.00	51.07	174	350	Horizontal
1412.8826	-52.06	-13.00	39.06	195	66	Horizontal
2826.3653	-45.44	-13.00	32.44	178	118	Horizontal
3532.8213	-48.30	-13.00	35.30	174	350	Horizontal
4239.6496	-41.45	-13.00	28.45	159	270	Horizontal
4945.8778	-39.84	-13.00	26.84	169	350	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	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-9.20	-0.012976	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-4.40	-0.006206	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-3.70	-0.005211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-7.10	-0.010000	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-7.60	-0.010689	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-7.40	-0.010408	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-5.70	-0.008017	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-10.60	-0.014951	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-6.90	-0.009732	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-4.30	-0.006065	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-3.70	-0.005211	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-4.00	-0.005634	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-4.60	-0.006470	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-4.30	-0.006048	±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	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-6.80	-0.009591	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-7.10	-0.010014	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-4.90	-0.006911	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-7.30	-0.010296	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-6.80	-0.009591	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-6.30	-0.008886	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-10.20	-0.014386	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.80	-0.003944	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.80	0.002535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-9.50	-0.013380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-7.40	-0.010423	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-9.80	-0.013803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-6.60	-0.009296	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-5.80	-0.008169	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-5.00	-0.007042	±2.5	PASS

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Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-8.70	-0.012236	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-4.20	-0.005907	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-5.20	-0.007314	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-6.10	-0.008579	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-5.20	-0.007314	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-5.40	-0.007595	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-5.10	-0.007173	±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	-20	-6.10	-0.008604	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-4.40	-0.006206	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-5.50	-0.007757	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-6.40	-0.009027	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-3.30	-0.004654	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-1.40	-0.001975	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-6.50	-0.009168	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-5.20	-0.007324	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-7.20	-0.010141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-6.50	-0.009155	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-8.40	-0.011831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-4.80	-0.006761	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-6.40	-0.009001	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-9.70	-0.013643	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-5.80	-0.008158	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-8.00	-0.011252	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-6.60	-0.009283	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-3.50	-0.004923	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-6.00	-0.008439	±2.5	PASS

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