Appendix B

WCDMA Band II & V

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	24.12	21.62	33.00	PASS
Band II	9400	24.25	21.75	33.00	PASS
Band II	9538	24.27	21.77	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.46	17.31	38.45	PASS
Band V	4182	24.48	17.33	38.45	PASS
Band V	4233	24.39	17.24	38.45	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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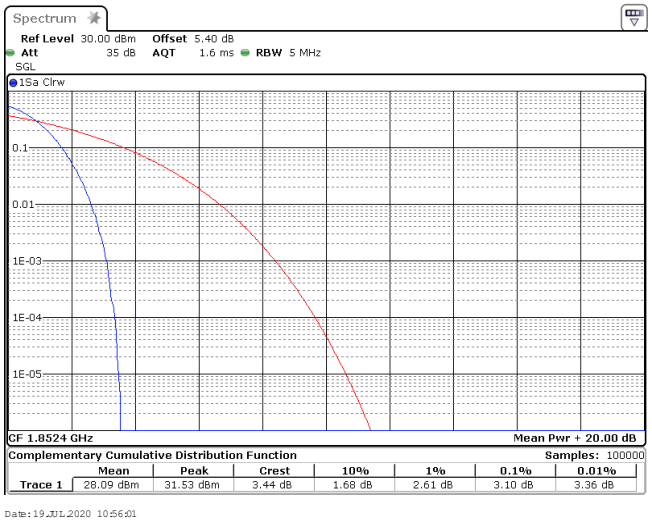
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.10	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.70	13	PASS
Band V	4132	2.72	13	PASS
Band V	4182	2.75	13	PASS
Band V	4233	2.81	13	PASS

2.2. Test Plots



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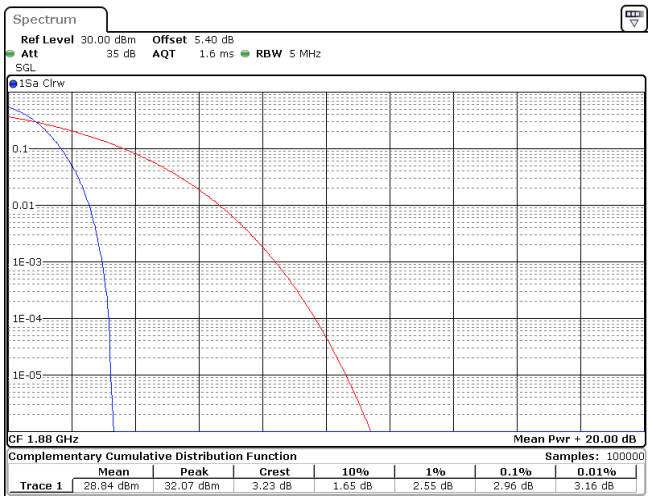
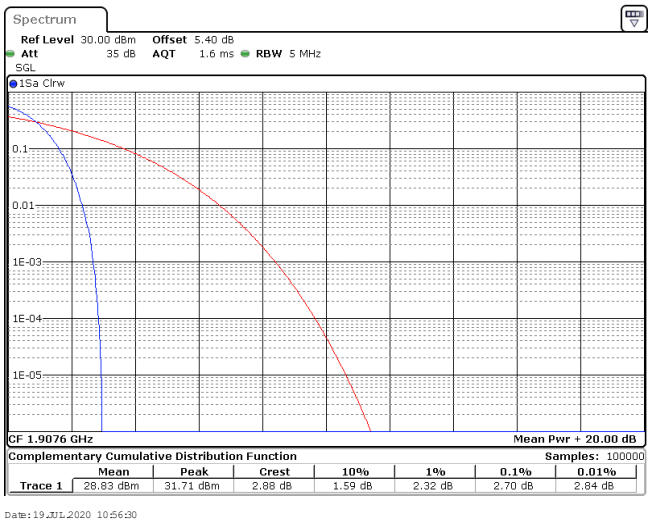


Band II_9400



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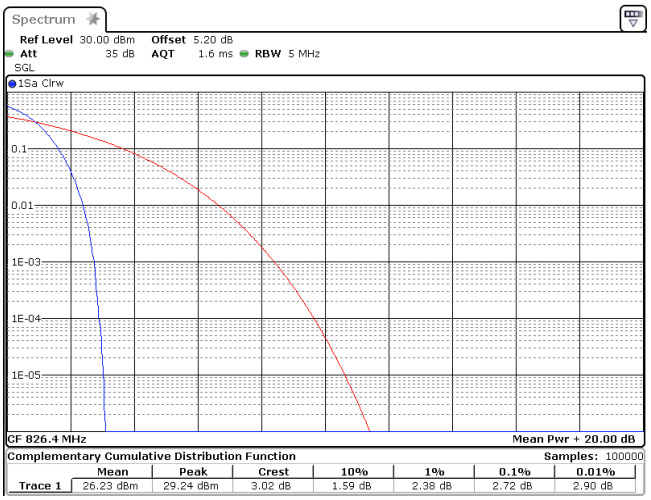
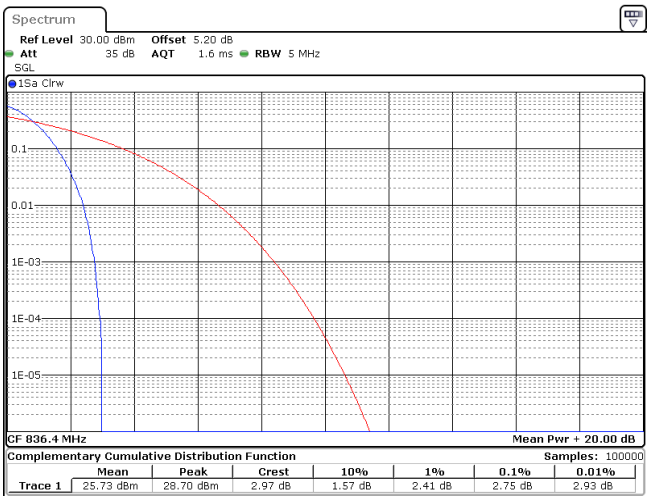


Band V_4132



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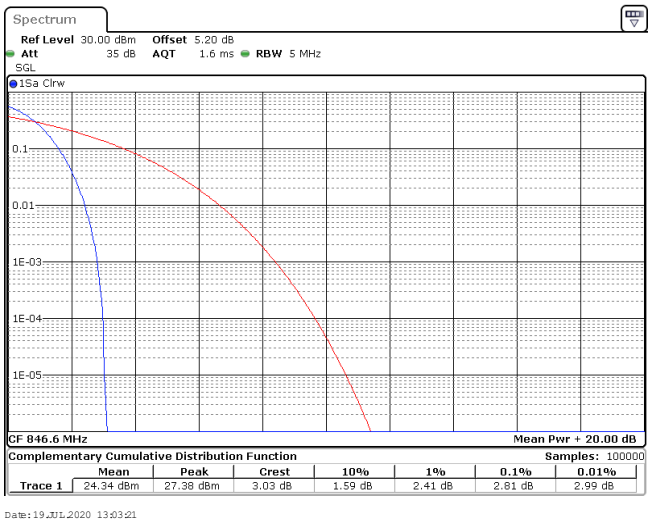

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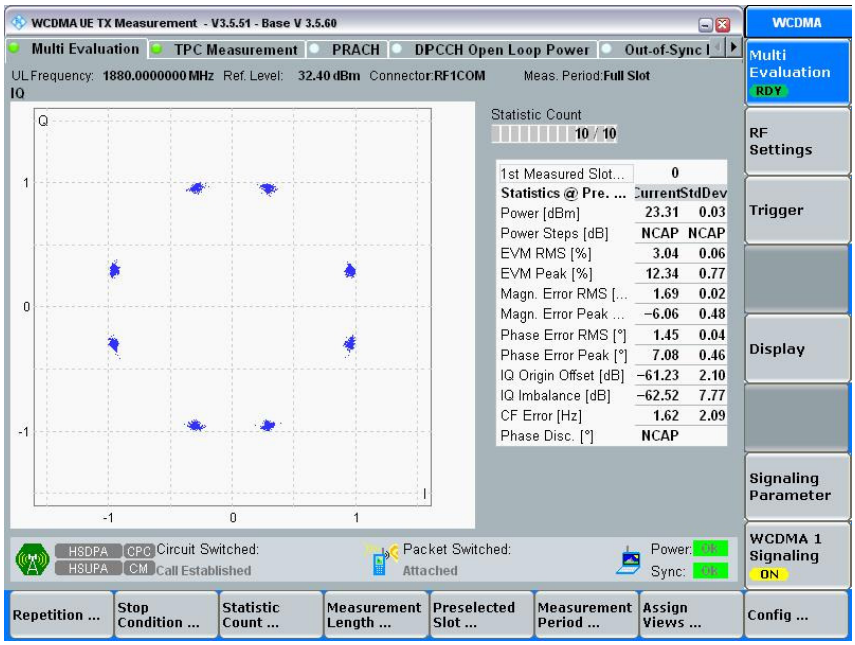
3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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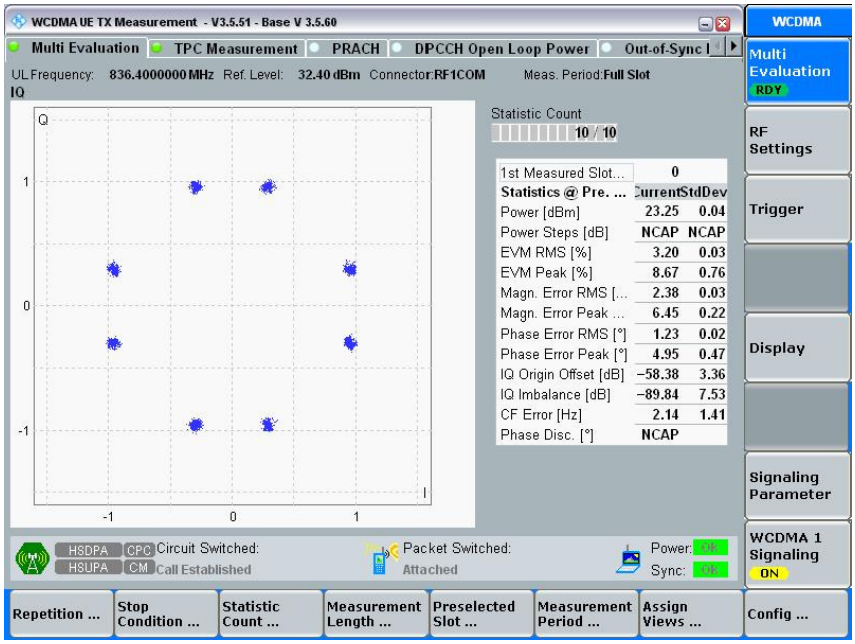
3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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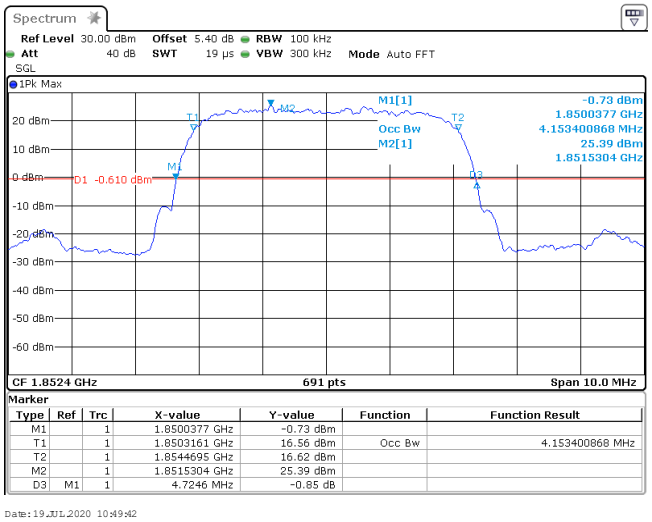
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4725	---	PASS
Band II	9400	4182.3	4754	---	PASS
Band II	9538	4167.9	4754	---	PASS
Band V	4132	4167.9	4768	---	PASS
Band V	4182	4167.9	4754	---	PASS
Band V	4233	4182.3	4754	---	PASS

4.2. Test Plots



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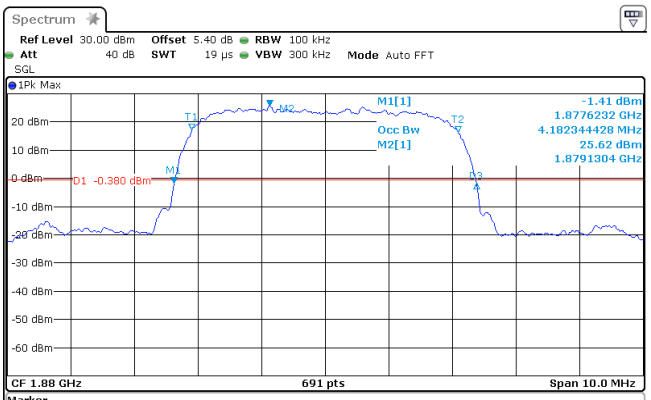
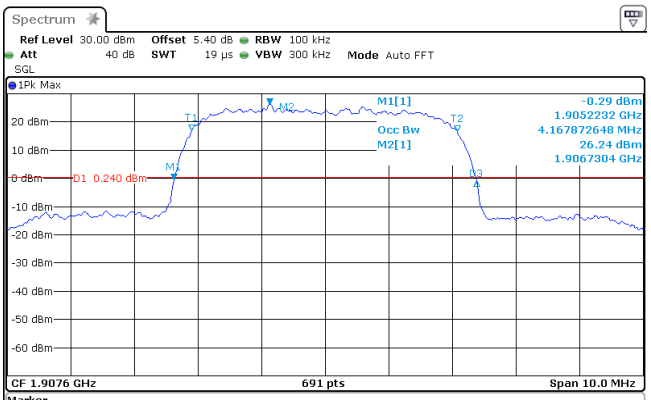


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.8776232 GHz	-1.41 dBm		
T1		1	1.8779016 GHz	17.13 dBm	Occ Bw	4.182344428 MHz
T2		1	1.8820839 GHz	16.26 dBm		
M2		1	1.8791304 GHz	25.62 dBm		
D3	M1	1	4.7536 MHz	0.12 dB		

Date: 19.JUL.2020 10:50:07

Band II_9400



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.9052232 GHz	-0.29 dBm		
T1		1	1.9055016 GHz	16.80 dBm	Occ Bw	4.167872648 MHz
T2		1	1.9096695 GHz	16.63 dBm		
M2		1	1.9067304 GHz	26.24 dBm		
D3	M1	1	4.7536 MHz	-0.23 dB		

Date: 19.JUL.2020 10:50:31

Band II_9538

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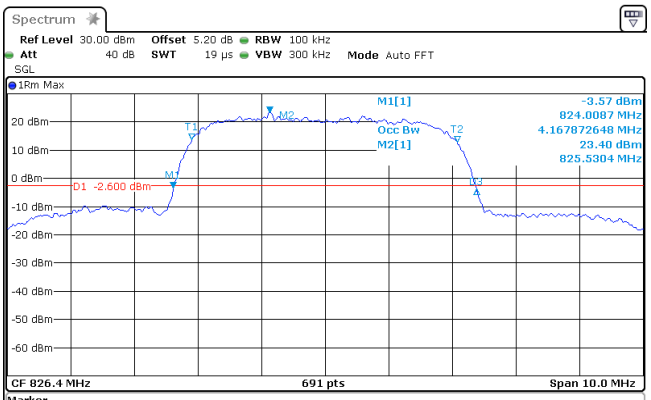

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.0087 MHz	-3.57 dBm		
T1		1	824.3016 MHz	13.78 dBm	Occ Bw	4.167872648 MHz
T2		1	828.4695 MHz	12.77 dBm		
M2		1	825.5304 MHz	23.40 dBm		
D3	M1	1	4.7681 MHz	0.13 dB		

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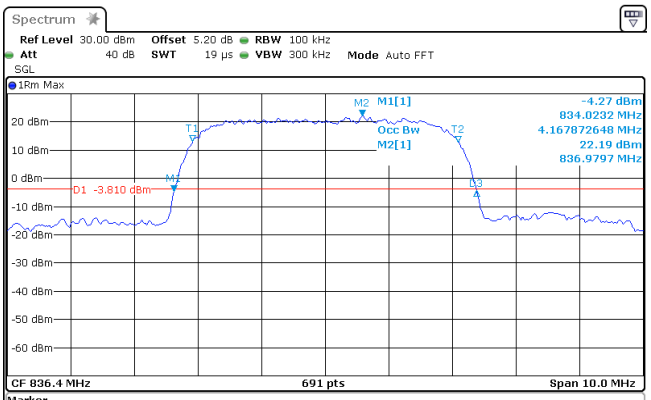

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	834.0232 MHz	-4.27 dBm		
T1		1	834.3161 MHz	13.17 dBm	Occ Bw	4.167872648 MHz
T2		1	838.4839 MHz	12.99 dBm		
M2		1	836.9797 MHz	22.19 dBm		
D3	M1	1	4.7536 MHz	0.37 dB		

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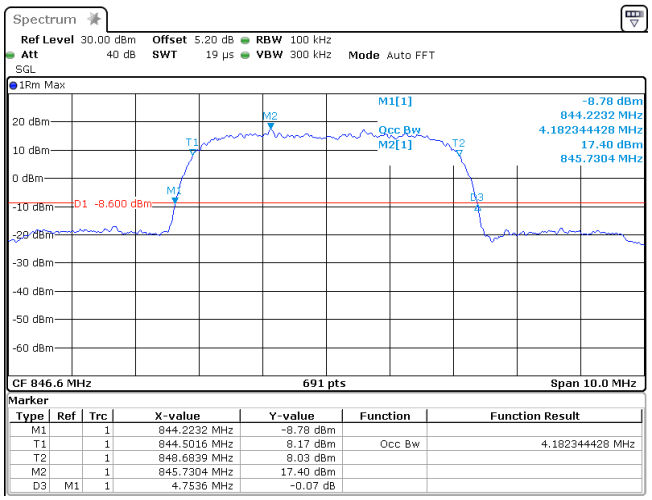

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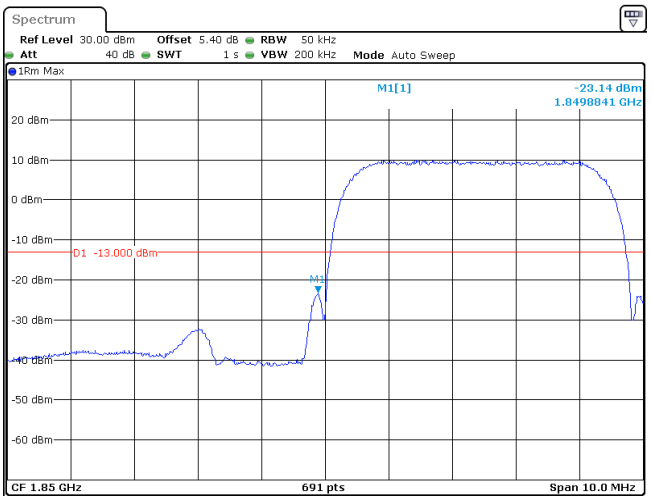
5. Band Edge Compliance

5.1. Test Plots



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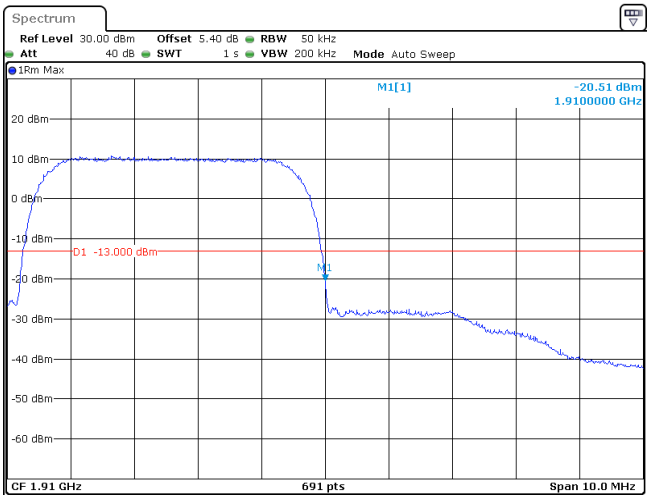

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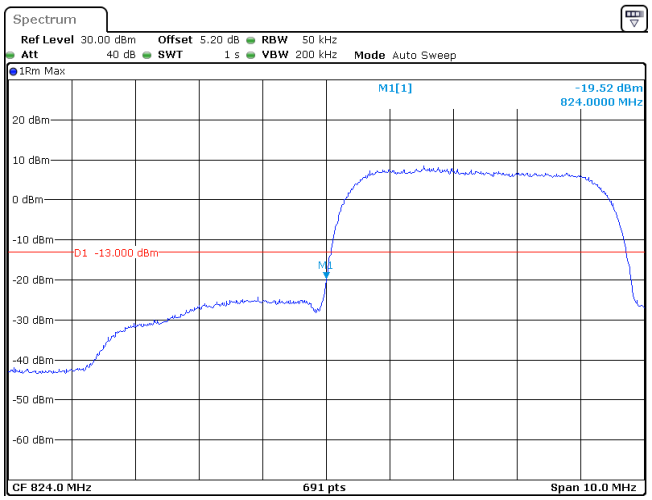

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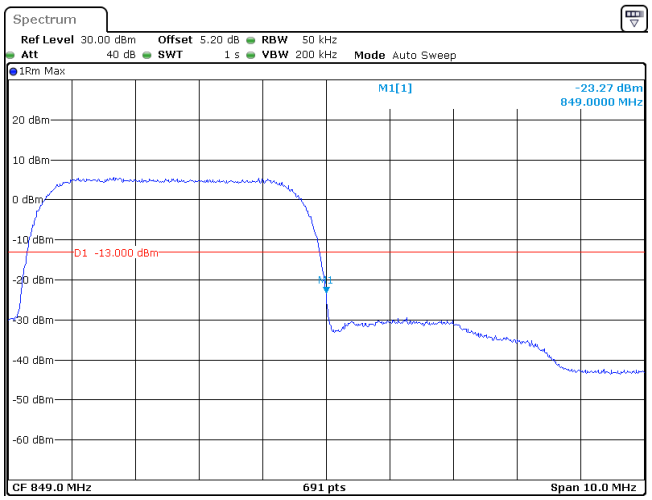

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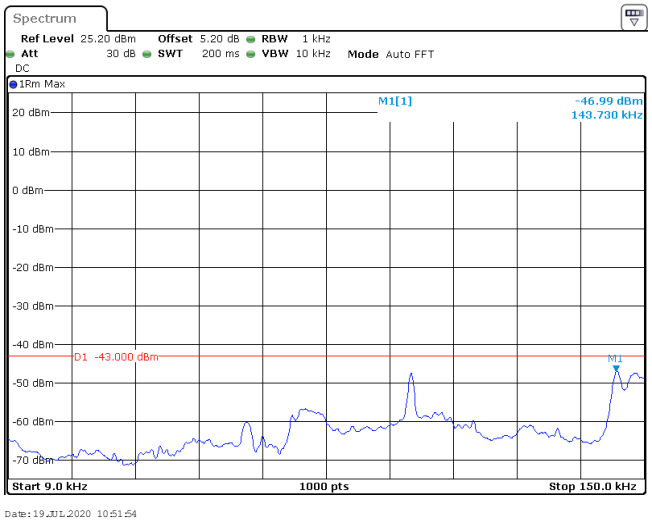
6. Spurious Emission at Antenna Terminal

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



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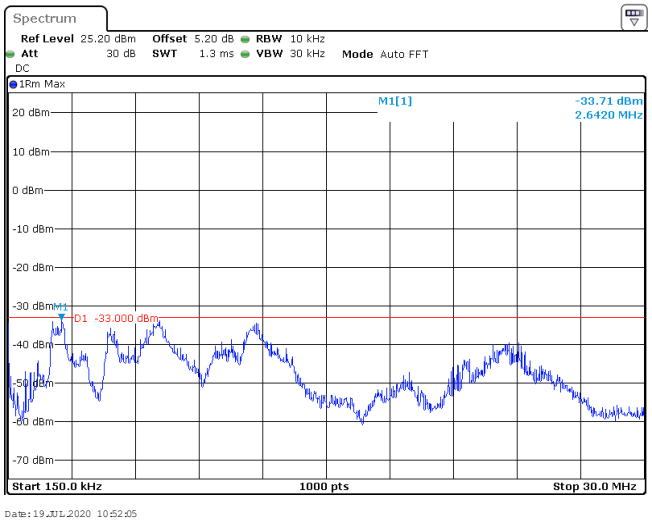

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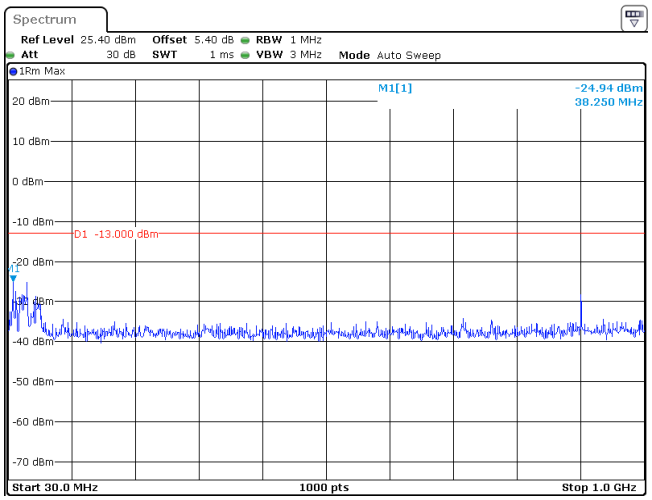

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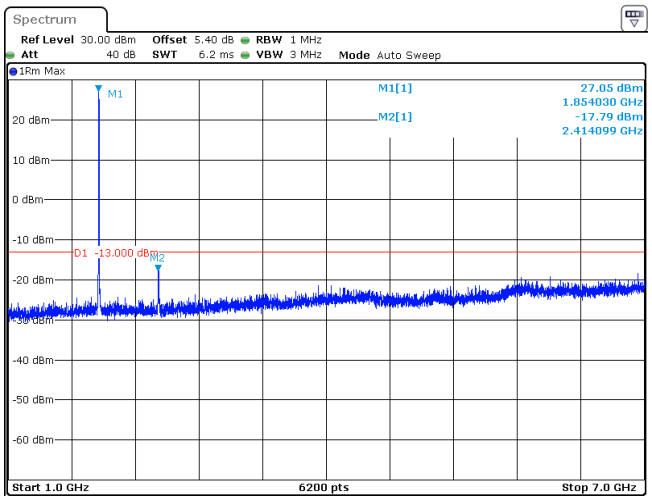

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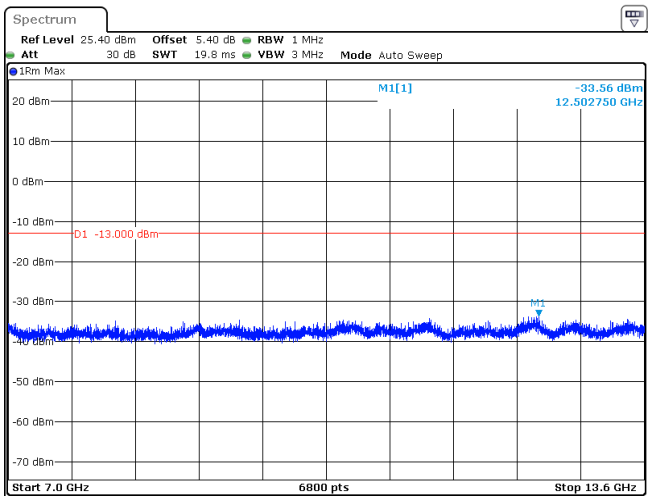

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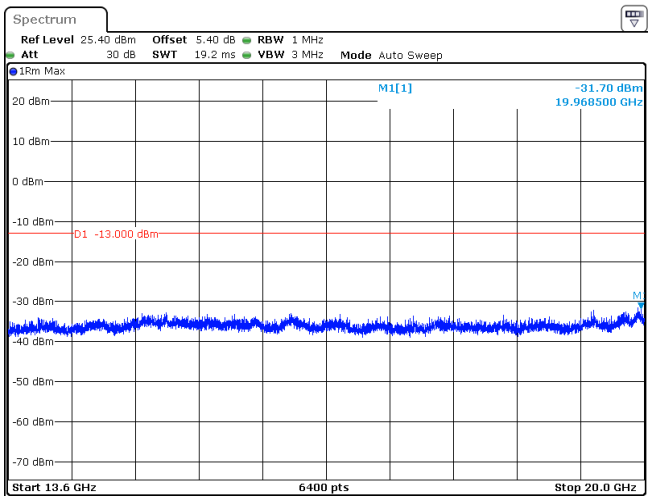

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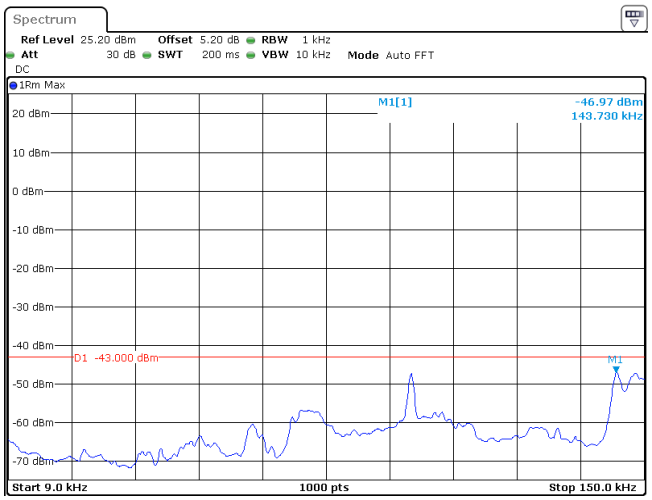

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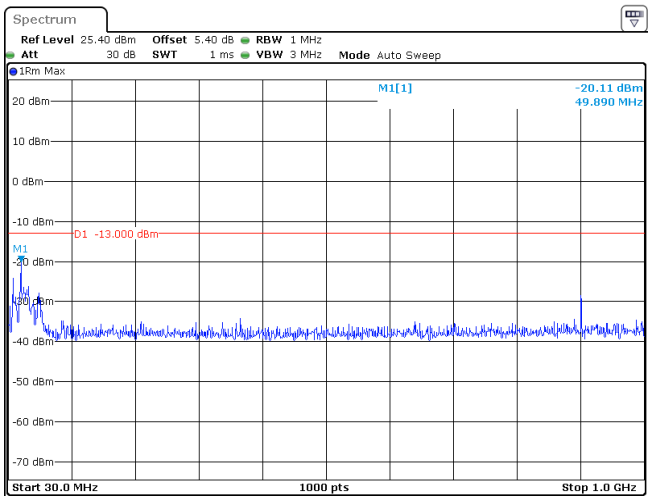

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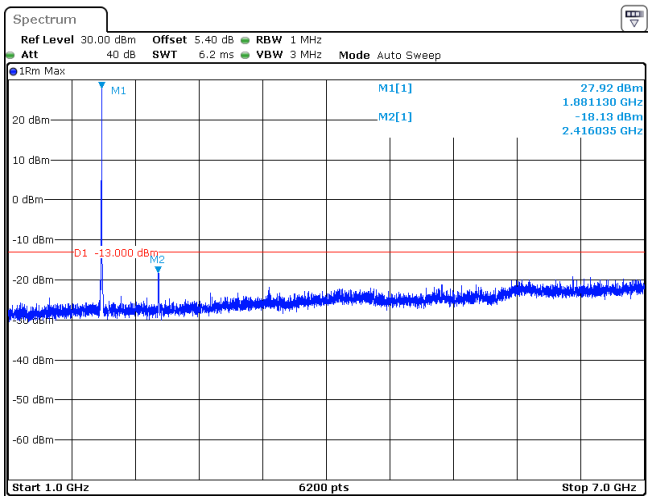

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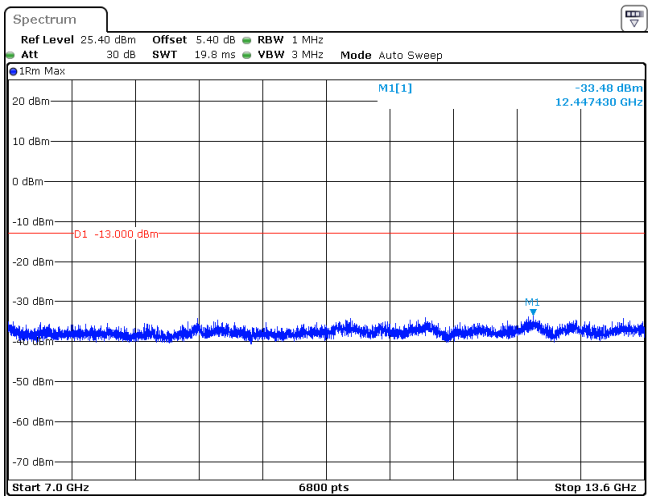

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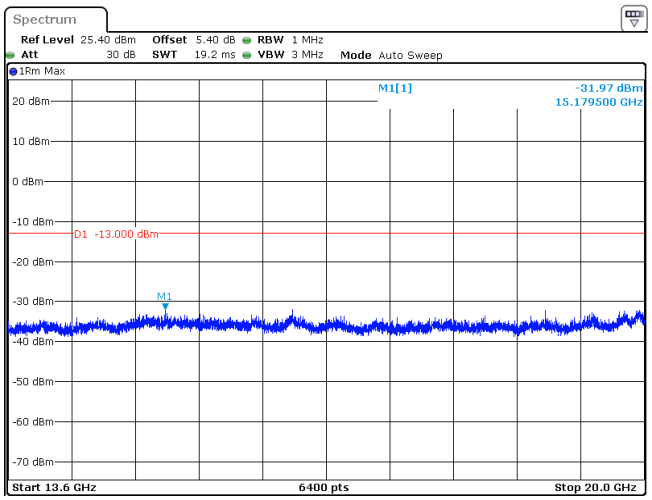

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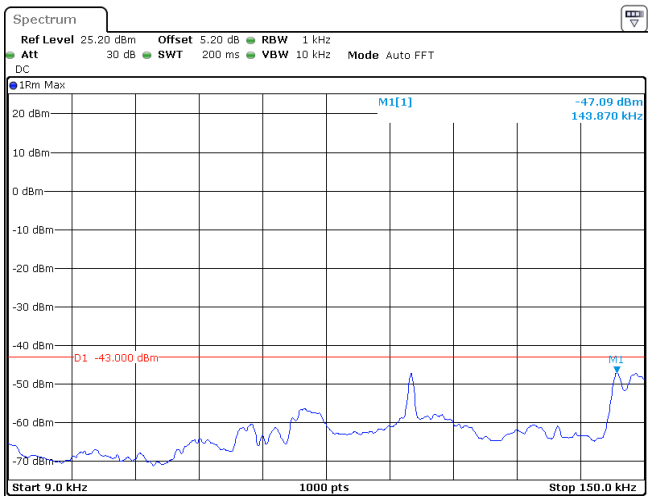

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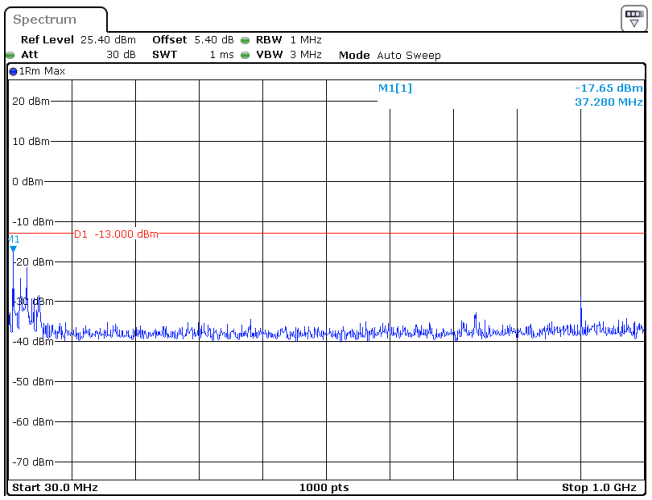

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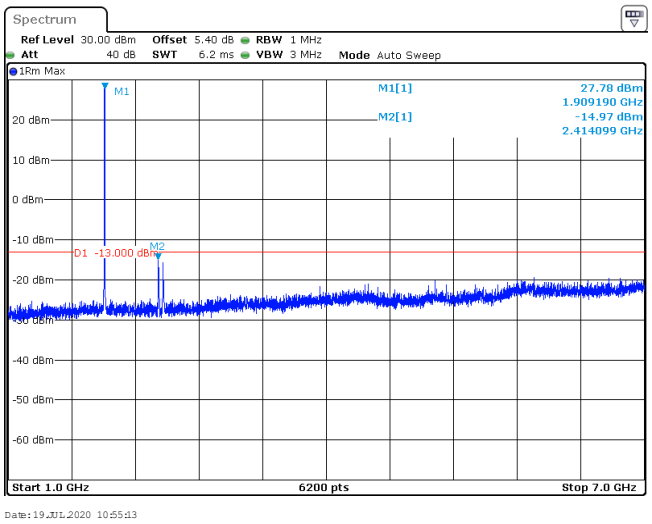

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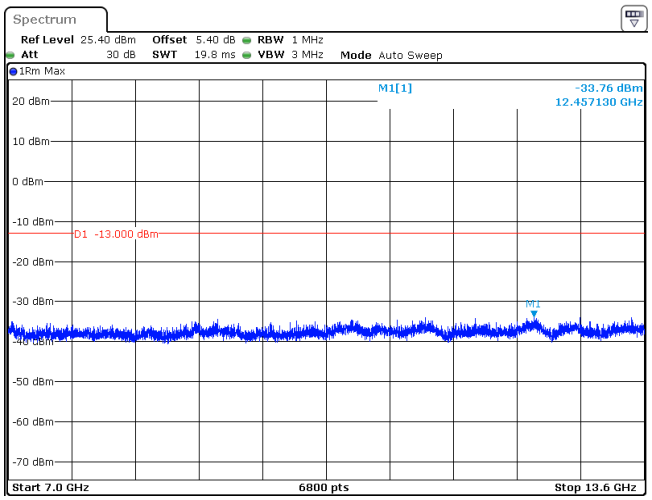

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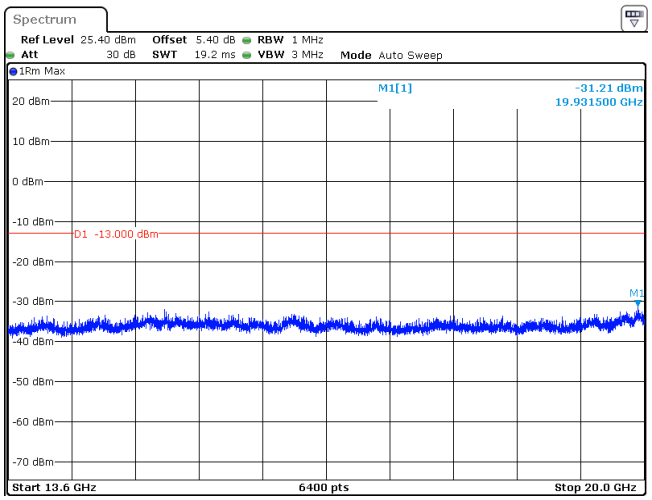

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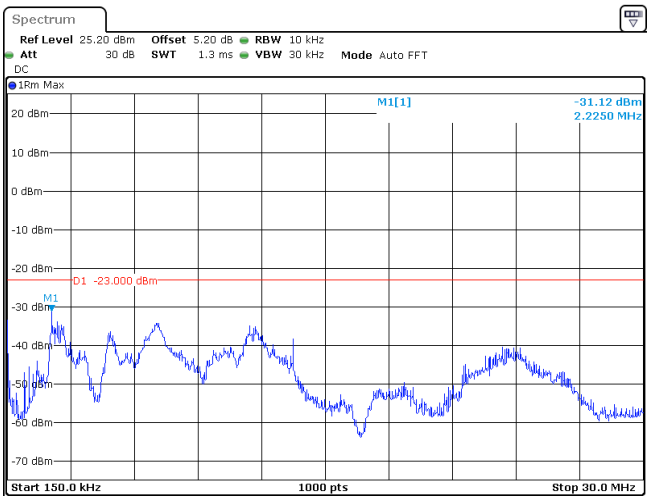

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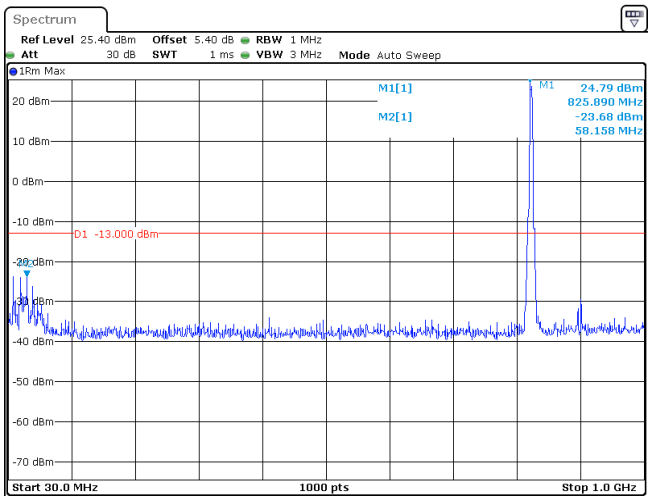

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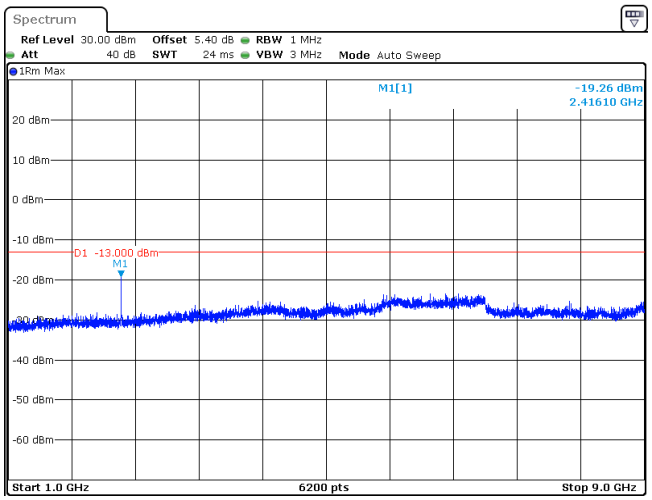

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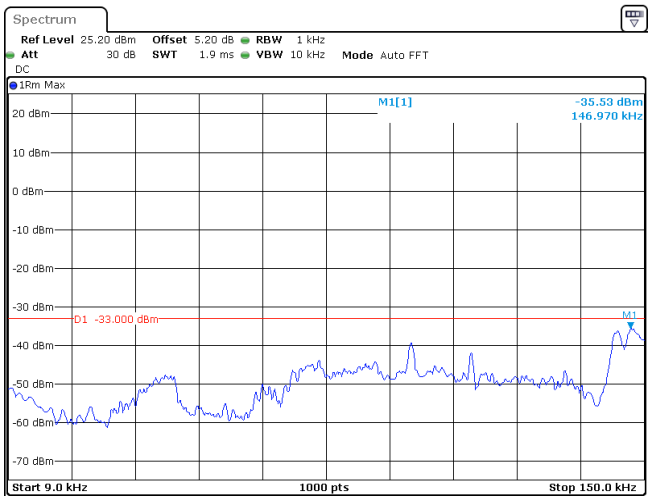

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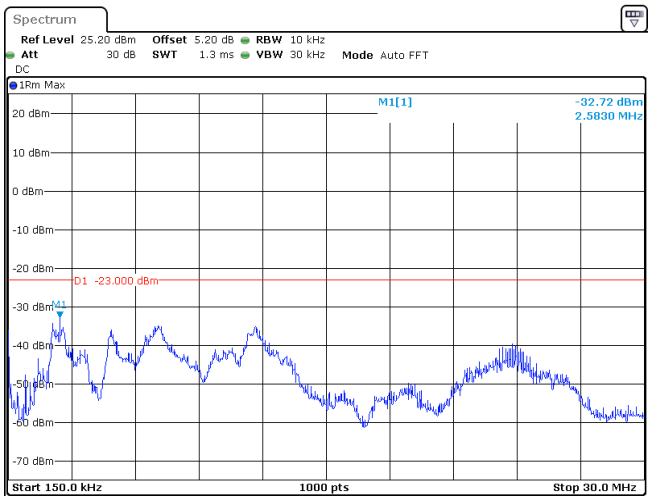

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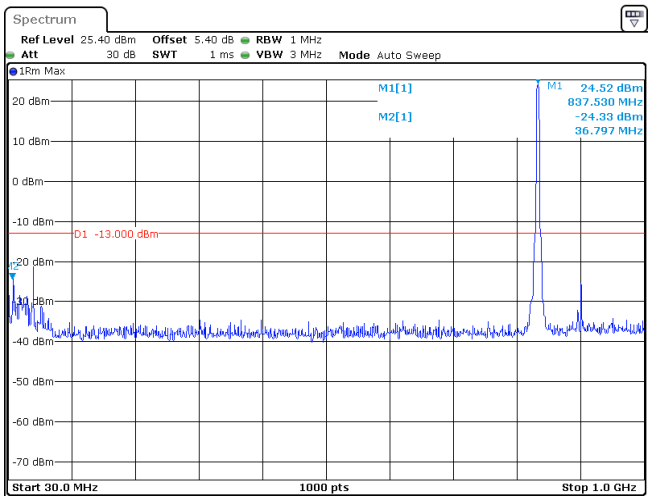

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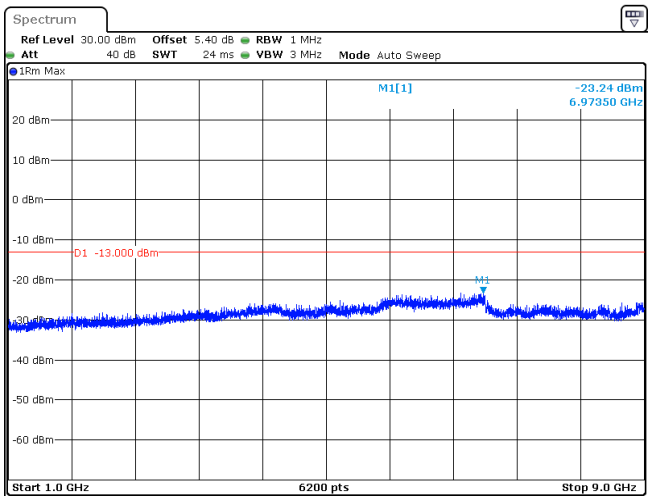

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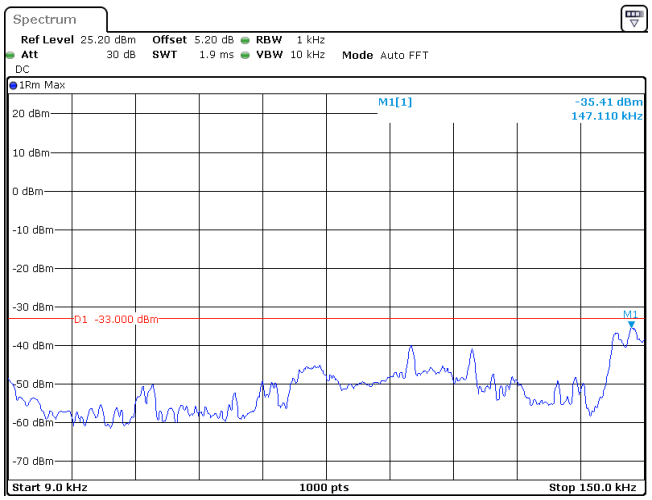

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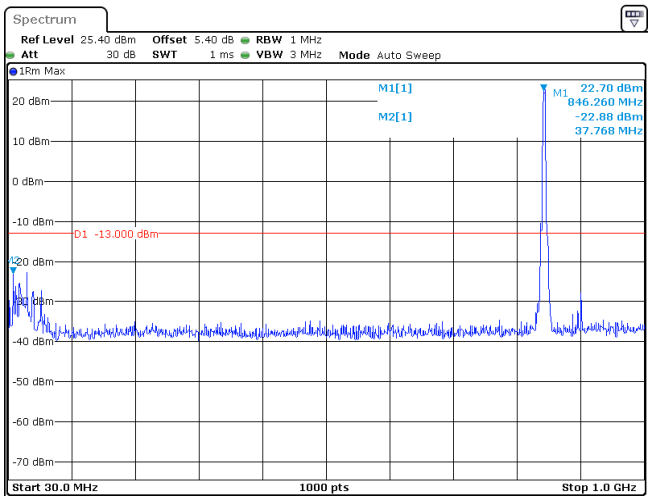

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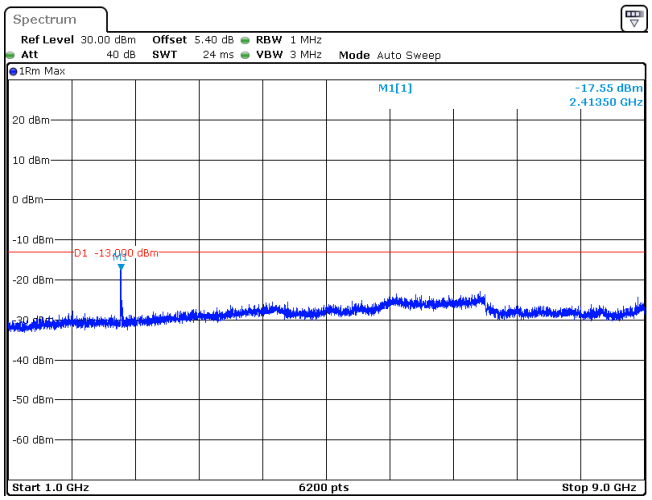

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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1. Test Mode =WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.0201	-72.56	-13.00	59.56	Vertical
110.6595	-65.46	-13.00	52.46	Vertical
692.4946	-62.80	-13.00	49.80	Vertical
2701.5403	-36.67	-13.00	23.67	Vertical
7459.6487	-54.91	-13.00	41.91	Vertical
17998.5000	-38.39	-13.00	25.39	Vertical
42.0771	-64.87	-13.00	51.87	Horizontal
237.7359	-67.98	-13.00	54.98	Horizontal
504.4992	-65.69	-13.00	52.69	Horizontal
2698.7397	-35.53	-13.00	22.53	Horizontal
7460.6487	-55.34	-13.00	42.34	Horizontal
16391.4464	-42.17	-13.00	29.17	Horizontal

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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.4794	-72.76	-13.00	59.76	Vertical
115.7523	-65.07	-13.00	52.07	Vertical
605.7238	-64.03	-13.00	51.03	Vertical
2691.9384	-36.52	-13.00	23.52	Vertical
7386.6462	-54.08	-13.00	41.08	Vertical
17991.9997	-38.34	-13.00	25.34	Vertical
44.7932	-64.43	-13.00	51.43	Horizontal
235.6503	-68.19	-13.00	55.19	Horizontal
570.2200	-63.61	-13.00	50.61	Horizontal
2700.7401	-35.52	-13.00	22.52	Horizontal
7443.1481	-55.10	-13.00	42.10	Horizontal
16394.4465	-42.35	-13.00	29.35	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1285	-72.54	-13.00	59.54	Vertical
110.0775	-64.14	-13.00	51.14	Vertical
555.3298	-65.35	-13.00	52.35	Vertical
2694.7389	-36.64	-13.00	23.64	Vertical
7396.6466	-54.50	-13.00	41.50	Vertical
17999.5000	-38.35	-13.00	25.35	Vertical
42.9016	-64.43	-13.00	51.43	Horizontal
231.4791	-67.34	-13.00	54.34	Horizontal
464.5817	-67.85	-13.00	54.85	Horizontal
2700.3401	-35.43	-13.00	22.43	Horizontal
7480.6494	-55.38	-13.00	42.38	Horizontal
16392.4464	-42.62	-13.00	29.62	Horizontal

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7.2. Test Band = WCDMA Band V

7.2.1. Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.3639	-73.06	-13.00	60.06	Vertical
111.7751	-64.73	-13.00	51.73	Vertical
434.8982	-67.47	-13.00	54.47	Vertical
2853.1706	-51.88	-13.00	38.88	Vertical
7356.1452	-54.30	-13.00	41.30	Vertical
17999.0000	-38.00	-13.00	25.00	Vertical
42.6591	-64.12	-13.00	51.12	Horizontal
237.9299	-67.81	-13.00	54.81	Horizontal
1650.9302	-57.23	-13.00	44.23	Horizontal
2697.1394	-50.73	-13.00	37.73	Horizontal
8036.1679	-55.02	-13.00	42.02	Horizontal
15962.4321	-46.05	-13.00	33.05	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.3339	48.3339	48.3339	48.3339	Vertical
118.0804	118.0804	118.0804	118.0804	Vertical
399.0550	399.0550	399.0550	399.0550	Vertical
2296.2593	2296.2593	2296.2593	2296.2593	Vertical
7466.1489	7466.1489	7466.1489	7466.1489	Vertical
17999.5000	17999.5000	17999.5000	17999.5000	Vertical
43.8232	-63.58	-13.00	50.58	Horizontal
238.7059	-68.01	-13.00	55.01	Horizontal
504.4992	-66.33	-13.00	53.33	Horizontal
2699.1398	-50.80	-13.00	37.80	Horizontal
7481.6494	-55.44	-13.00	42.44	Horizontal
16382.4461	-41.95	-13.00	28.95	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
44.8417	-72.99	-13.00	59.99	Vertical
102.6566	-64.54	-13.00	51.54	Vertical
453.5717	-66.92	-13.00	53.92	Vertical
2696.7393	-52.01	-13.00	39.01	Vertical
7364.1455	-54.78	-13.00	41.78	Vertical
17996.4999	-38.17	-13.00	25.17	Vertical
39.5065	-63.55	-13.00	50.55	Horizontal
241.5676	-67.79	-13.00	54.79	Horizontal
556.4938	-64.92	-13.00	51.92	Horizontal
2699.9400	-50.81	-13.00	37.81	Horizontal
7363.6455	-55.32	-13.00	42.32	Horizontal
16391.4464	-42.57	-13.00	29.57	Horizontal

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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 had been displayed.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	5.36	0.002894	±2.5	PASS
Band II	9262	VN	TN	4.88	0.002633	±2.5	PASS
Band II	9262	VH	TN	-3.59	-0.001938	±2.5	PASS
Band II	9400	VL	TN	-14.67	-0.007802	±2.5	PASS
Band II	9400	VN	TN	9.65	0.005135	±2.5	PASS
Band II	9400	VH	TN	-4.39	-0.002336	±2.5	PASS
Band II	9538	VL	TN	4.30	0.002256	±2.5	PASS
Band II	9538	VN	TN	-8.72	-0.004572	±2.5	PASS
Band II	9538	VH	TN	-1.60	-0.000838	±2.5	PASS
Band V	4132	VL	TN	-0.77	-0.000932	±2.5	PASS
Band V	4132	VN	TN	-1.43	-0.001733	±2.5	PASS
Band V	4132	VH	TN	-2.96	-0.003588	±2.5	PASS
Band V	4182	VL	TN	5.33	0.006376	±2.5	PASS
Band V	4182	VN	TN	-6.91	-0.008267	±2.5	PASS
Band V	4182	VH	TN	-3.92	-0.004685	±2.5	PASS
Band V	4233	VL	TN	3.12	0.003690	±2.5	PASS
Band V	4233	VN	TN	-1.85	-0.002185	±2.5	PASS
Band V	4233	VH	TN	-6.53	-0.007708	±2.5	PASS

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8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	10.50	0.005668	±2.5	PASS
Band II	9262	VN	-20	-1.30	-0.000702	±2.5	PASS
Band II	9262	VN	-10	8.47	0.004571	±2.5	PASS
Band II	9262	VN	0	-6.05	-0.003267	±2.5	PASS
Band II	9262	VN	10	-10.73	-0.005791	±2.5	PASS
Band II	9262	VN	20	7.58	0.004093	±2.5	PASS
Band II	9262	VN	30	-7.07	-0.003817	±2.5	PASS
Band II	9262	VN	40	-5.80	-0.003129	±2.5	PASS
Band II	9262	VN	50	-1.15	-0.000620	±2.5	PASS
Band II	9400	VN	-30	-9.11	-0.004847	±2.5	PASS
Band II	9400	VN	-20	10.32	0.005491	±2.5	PASS
Band II	9400	VN	-10	-11.42	-0.006074	±2.5	PASS
Band II	9400	VN	0	14.89	0.007920	±2.5	PASS
Band II	9400	VN	10	-12.93	-0.006880	±2.5	PASS
Band II	9400	VN	20	2.68	0.001423	±2.5	PASS
Band II	9400	VN	30	11.70	0.006222	±2.5	PASS
Band II	9400	VN	40	-4.59	-0.002443	±2.5	PASS
Band II	9400	VN	50	5.90	0.003138	±2.5	PASS
Band II	9538	VN	-30	-6.74	-0.003531	±2.5	PASS
Band II	9538	VN	-20	0.32	0.000167	±2.5	PASS
Band II	9538	VN	-10	2.08	0.001093	±2.5	PASS
Band II	9538	VN	0	-5.78	-0.003032	±2.5	PASS
Band II	9538	VN	10	-8.52	-0.004464	±2.5	PASS
Band II	9538	VN	20	9.52	0.004988	±2.5	PASS
Band II	9538	VN	30	-9.19	-0.004820	±2.5	PASS
Band II	9538	VN	40	-6.67	-0.003495	±2.5	PASS
Band II	9538	VN	50	-4.82	-0.002527	±2.5	PASS
Band V	4132	VN	-30	-3.02	-0.003659	±2.5	PASS
Band V	4132	VN	-20	12.53	0.015158	±2.5	PASS
Band V	4132	VN	-10	-10.94	-0.013239	±2.5	PASS
Band V	4132	VN	0	-12.44	-0.015050	±2.5	PASS

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Band V	4132	VN	10	1.19	0.001446	±2.5	PASS
Band V	4132	VN	20	-7.99	-0.009669	±2.5	PASS
Band V	4132	VN	30	12.26	0.014838	±2.5	PASS
Band V	4132	VN	40	2.74	0.003315	±2.5	PASS
Band V	4132	VN	50	-9.30	-0.011248	±2.5	PASS
Band V	4182	VN	-30	-6.07	-0.007255	±2.5	PASS
Band V	4182	VN	-20	-10.91	-0.013040	±2.5	PASS
Band V	4182	VN	-10	-6.43	-0.007692	±2.5	PASS
Band V	4182	VN	0	1.76	0.002106	±2.5	PASS
Band V	4182	VN	10	4.37	0.005220	±2.5	PASS
Band V	4182	VN	20	3.44	0.004117	±2.5	PASS
Band V	4182	VN	30	7.57	0.009051	±2.5	PASS
Band V	4182	VN	40	1.20	0.001439	±2.5	PASS
Band V	4182	VN	50	-6.96	-0.008317	±2.5	PASS
Band V	4233	VN	-30	-11.97	-0.014136	±2.5	PASS
Band V	4233	VN	-20	4.49	0.005300	±2.5	PASS
Band V	4233	VN	-10	10.49	0.012388	±2.5	PASS
Band V	4233	VN	0	-14.44	-0.017053	±2.5	PASS
Band V	4233	VN	10	-2.48	-0.002925	±2.5	PASS
Band V	4233	VN	20	0.33	0.000396	±2.5	PASS
Band V	4233	VN	30	3.99	0.004717	±2.5	PASS
Band V	4233	VN	40	13.29	0.015695	±2.5	PASS
Band V	4233	VN	50	2.56	0.003025	±2.5	PASS

The End

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