



Appendix B

WCDMA Band II & IV & 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	24.62	20.39	33.00	PASS
Band II	9400	24.56	20.33	33.00	PASS
Band II	9538	24.64	20.41	33.00	PASS
Band IV	1312	23.95	18.52	30.00	PASS
Band IV	1413	23.91	18.48	30.00	PASS
Band IV	1513	23.81	18.38	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.91	14.80	38.45	PASS
Band V	4182	24.95	14.84	38.45	PASS
Band V	4233	24.93	14.82	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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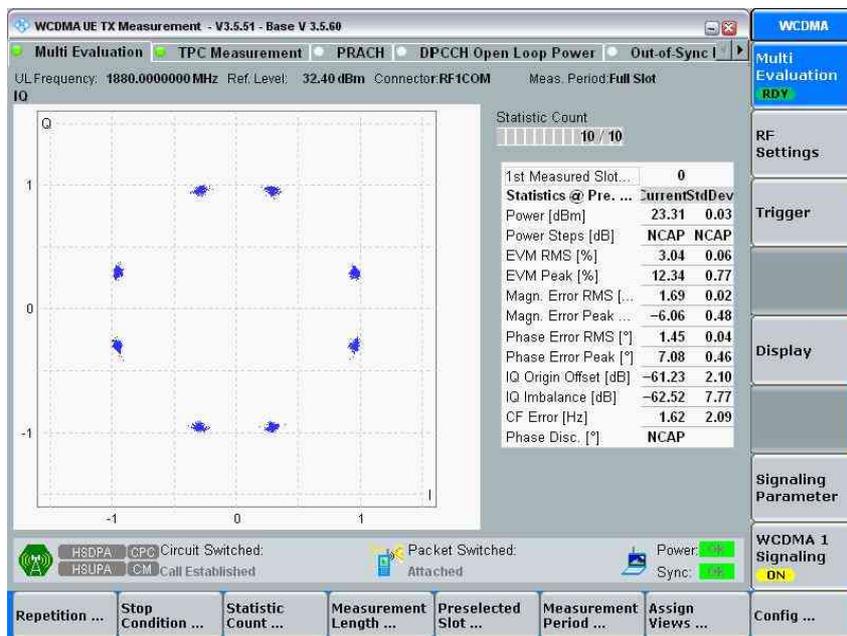


3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



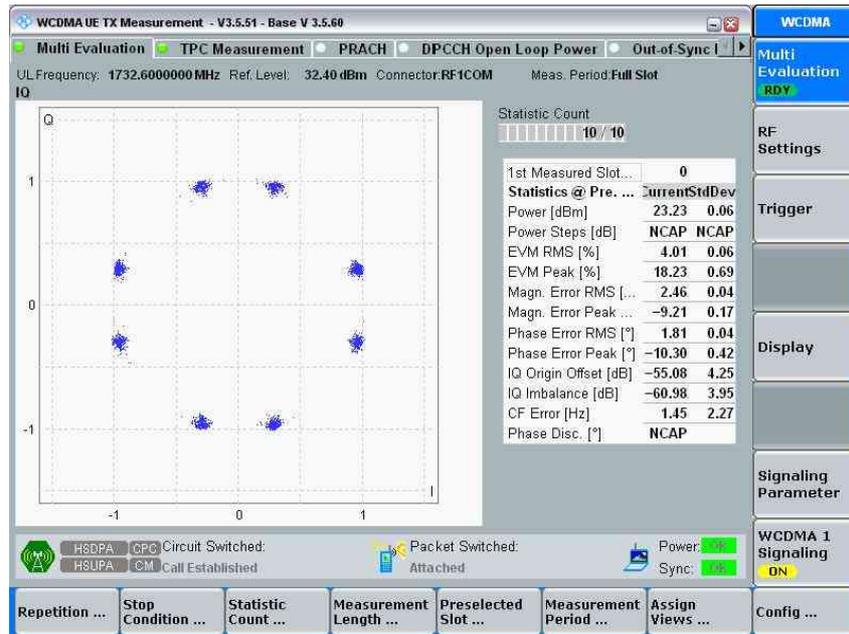
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3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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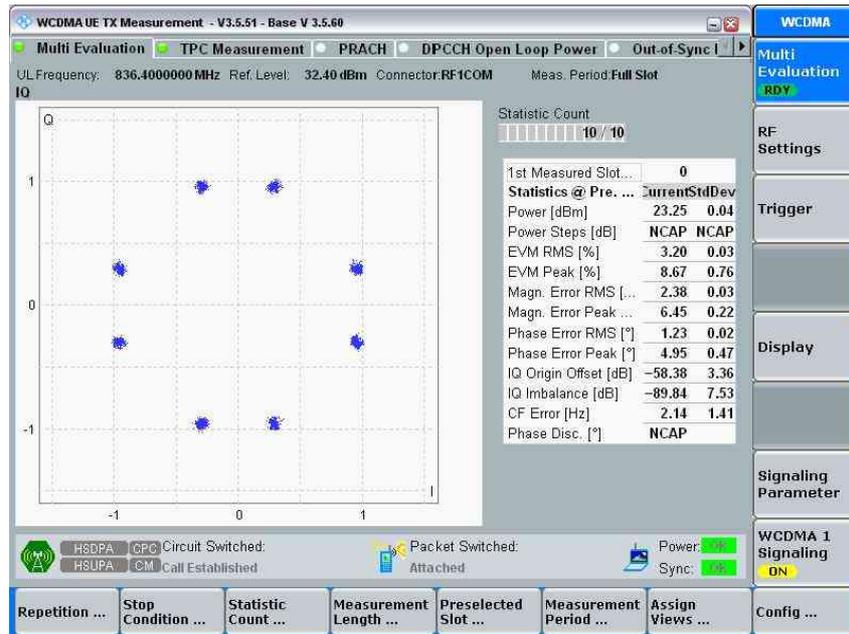
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3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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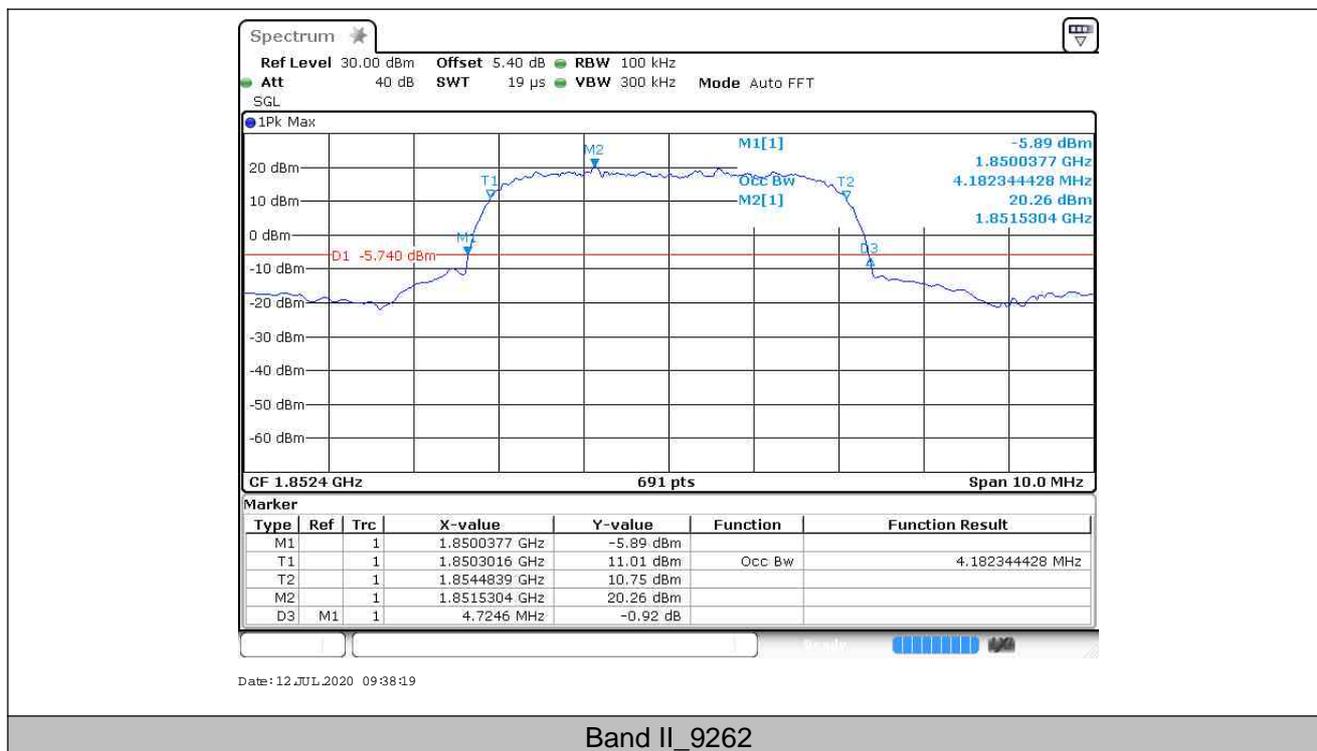


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4182.3	4725	---	PASS
Band II	9400	4167.9	4725	---	PASS
Band II	9538	4167.9	4739	---	PASS
Band IV	1312	4182.3	4754	---	PASS
Band IV	1413	4167.9	4739	---	PASS
Band IV	1513	4182.3	4739	---	PASS
Band V	4132	4167.9	4754	---	PASS
Band V	4182	4167.9	4754	---	PASS
Band V	4233	4167.9	4768	---	PASS

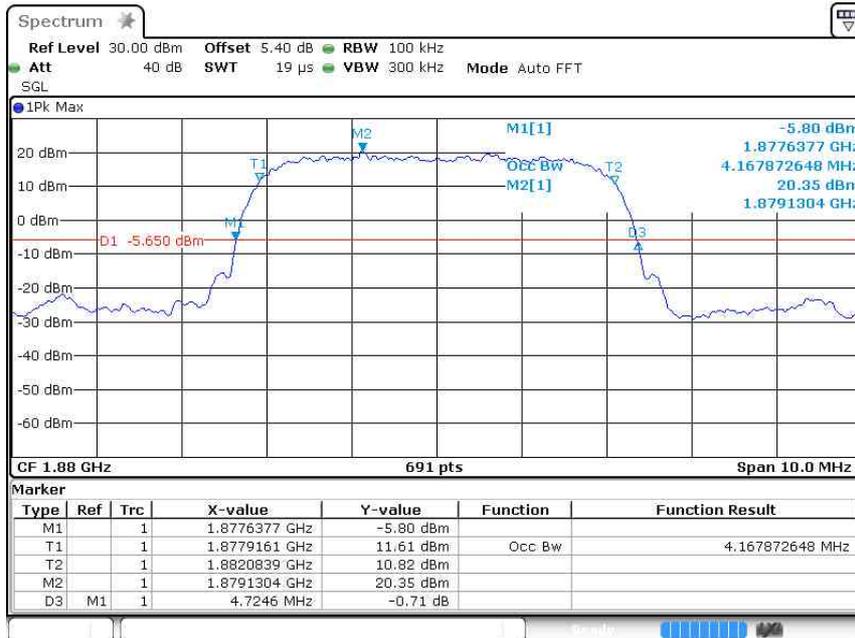
4.2. Test Plots



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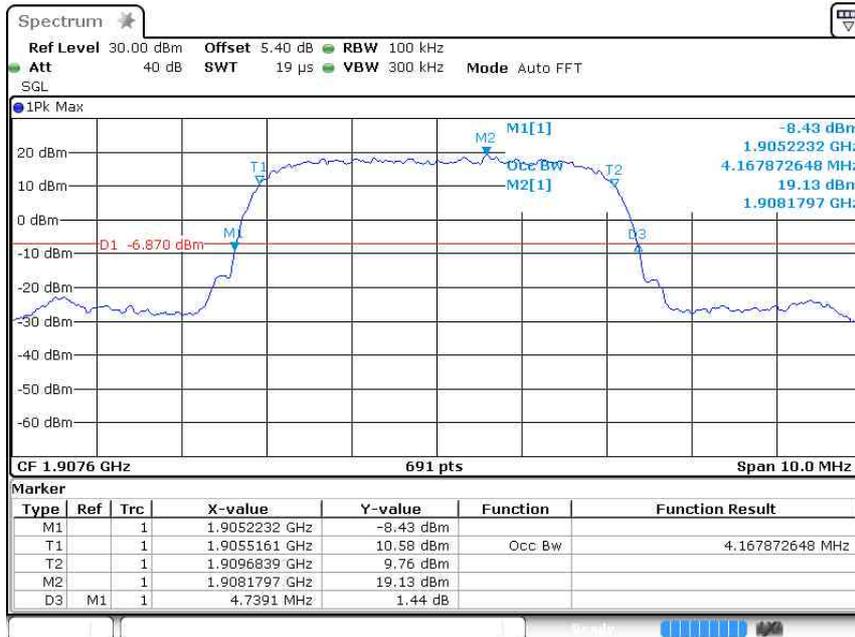
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Band II_9400



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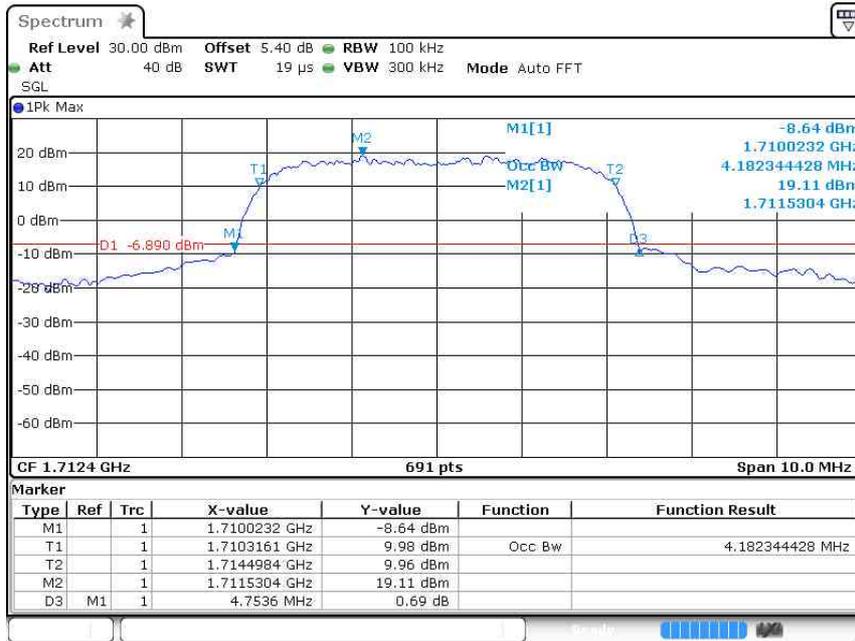
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Band IV_1312

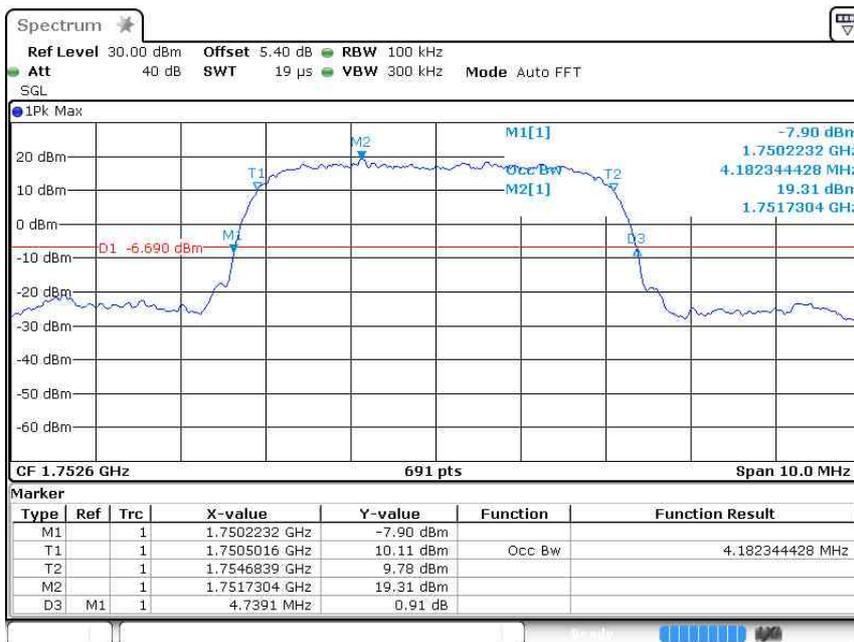


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Band IV_1413

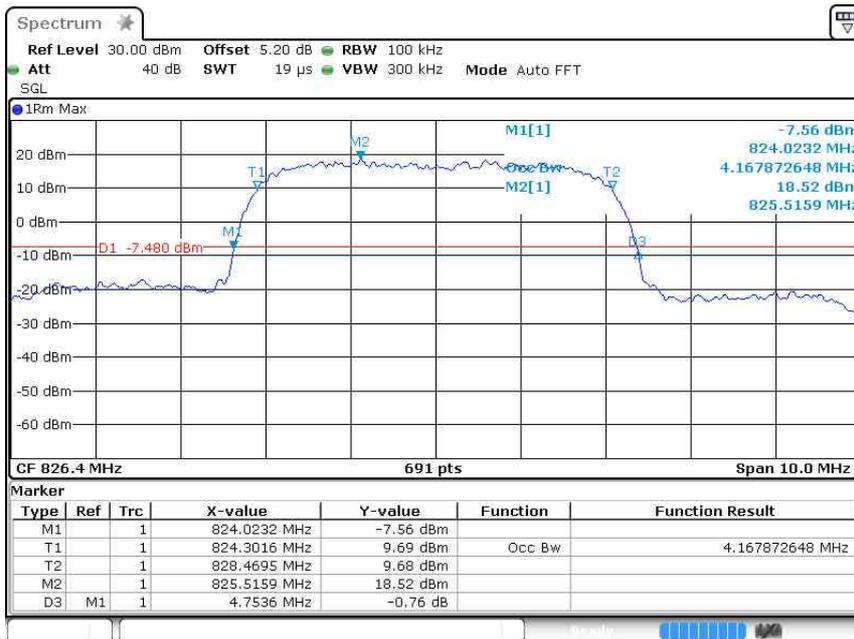


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Band IV_1513



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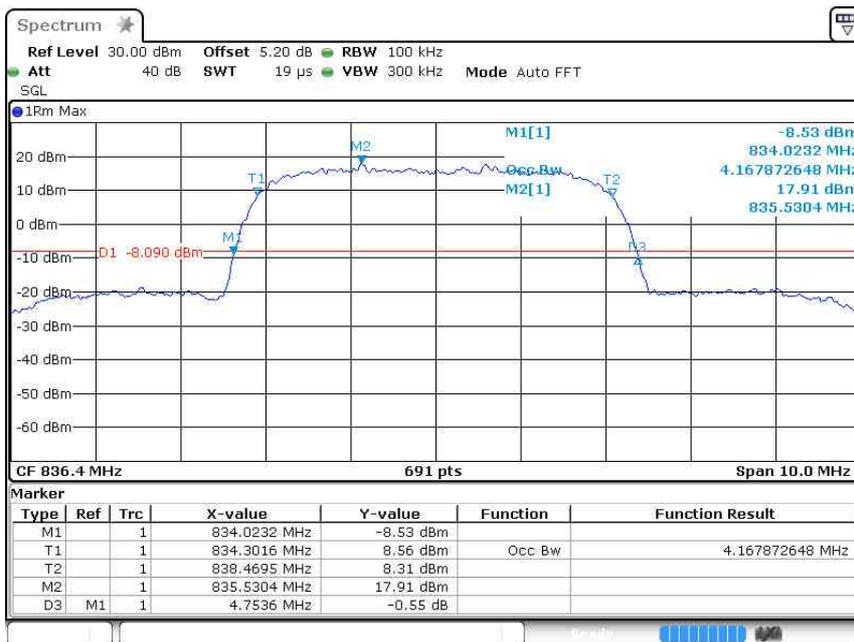
Band V_4132



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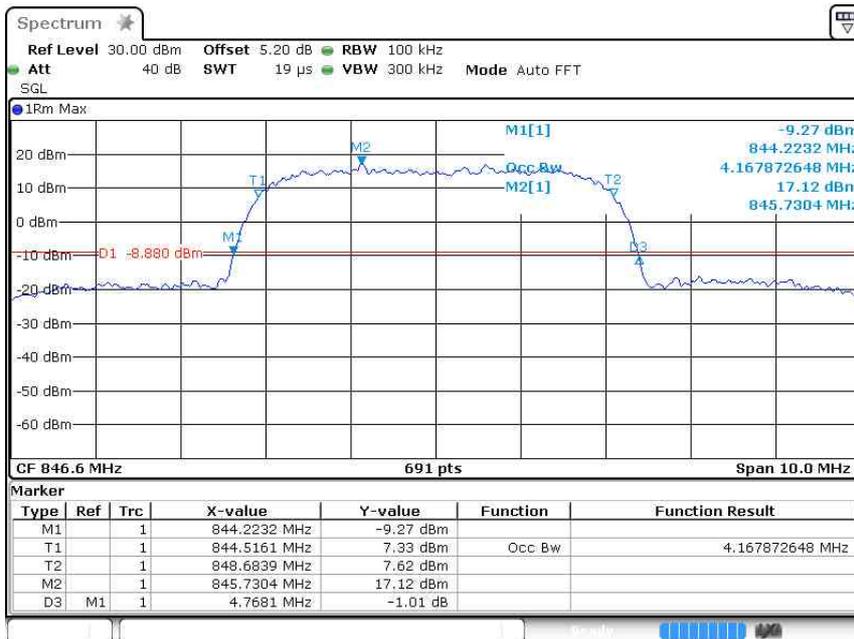
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Band V_4182



Date: 12 JUL 2020 10:00:39

Band V_4233



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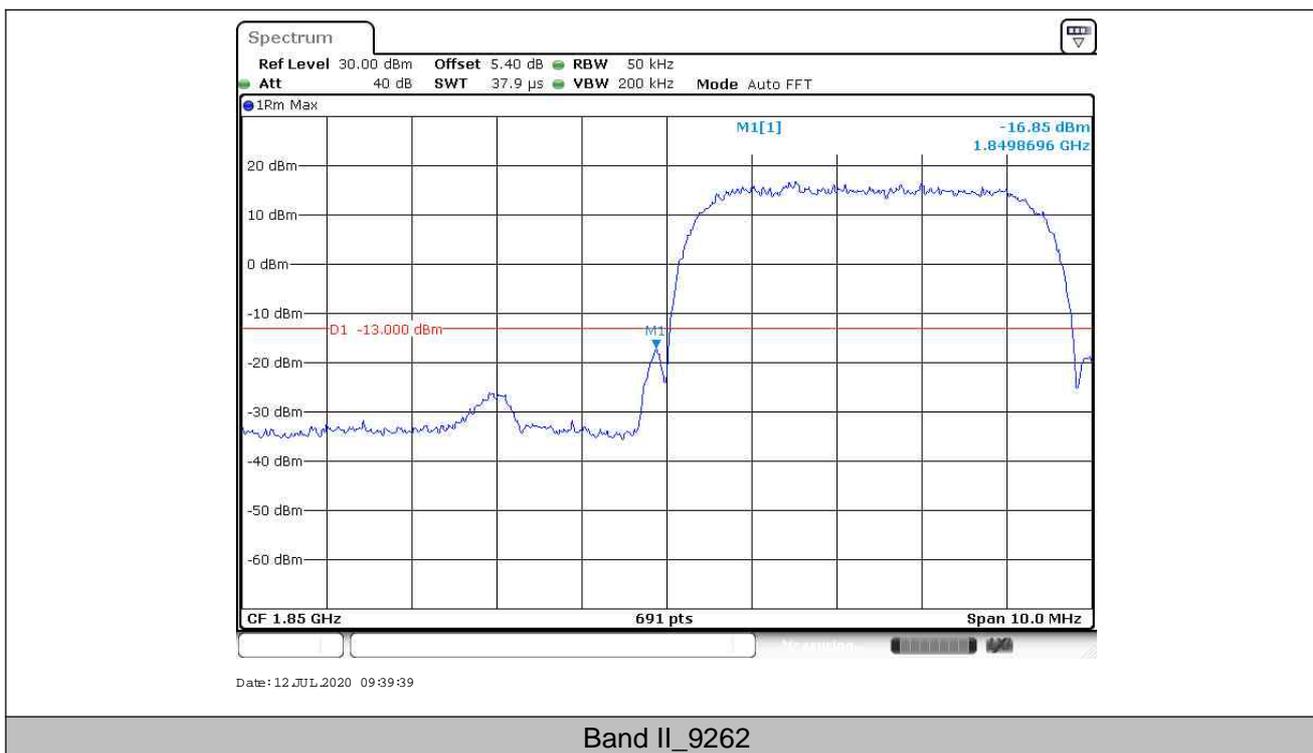


5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-16.85	-13	PASS
Band II	9538	-19.38	-13	PASS
Band IV	1312	-15.54	-13	PASS
Band IV	1513	-19.71	-13	PASS
Band V	4132	-16.55	-13	PASS
Band V	4233	-16.40	-13	PASS

5.2. Test Plots



Band II_9262



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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.

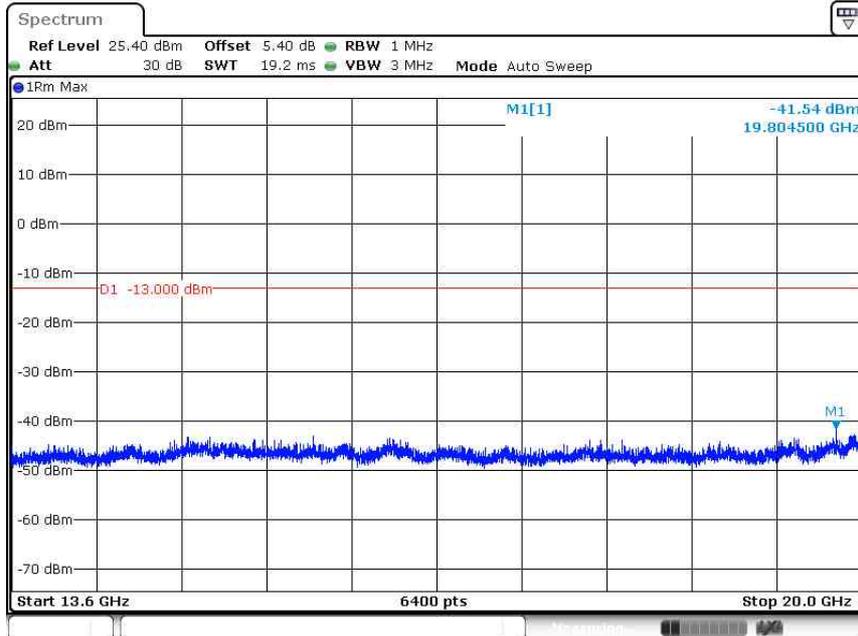
6.1. Test Plots



Band II_9262

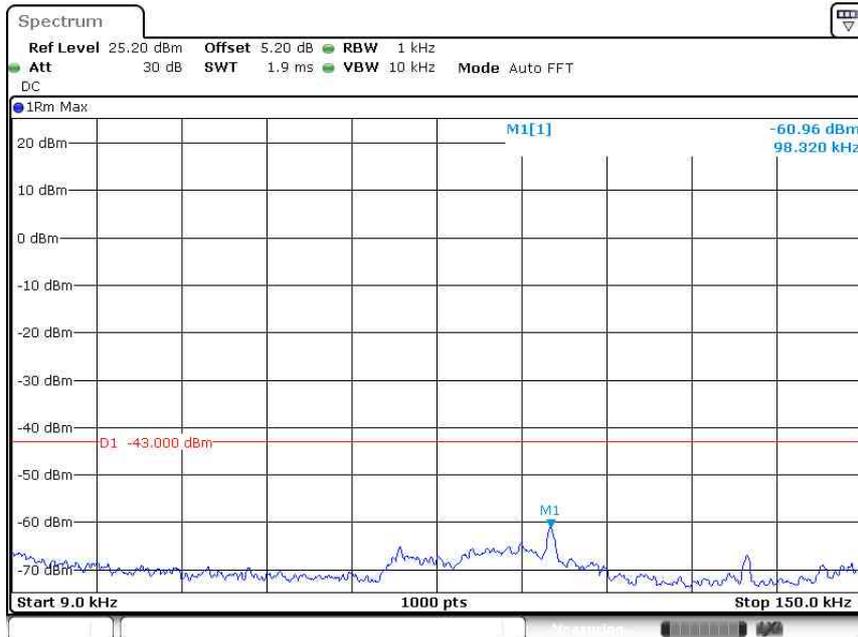


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Band IV_1312



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Band IV_1413



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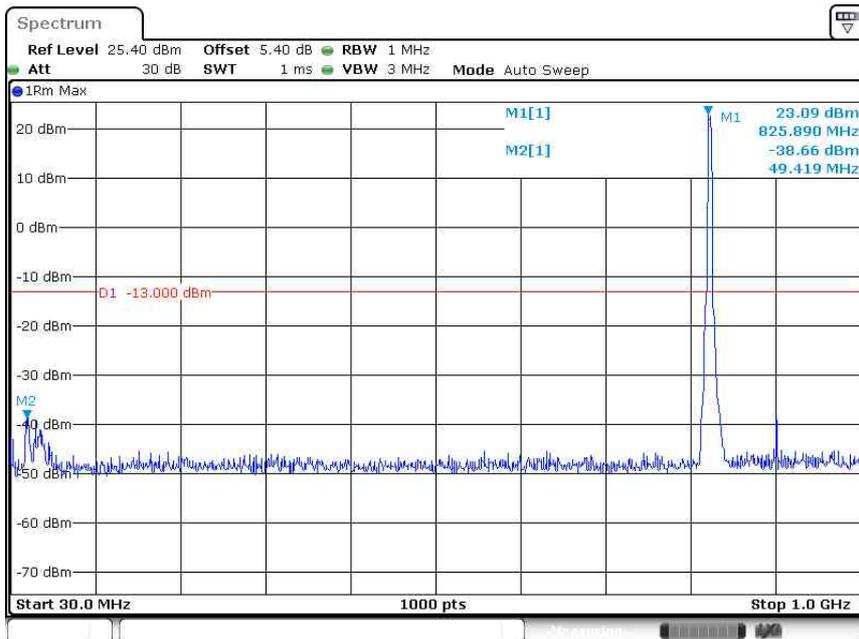
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Date: 12 JUL 2020 10:02:01

Band V_4132

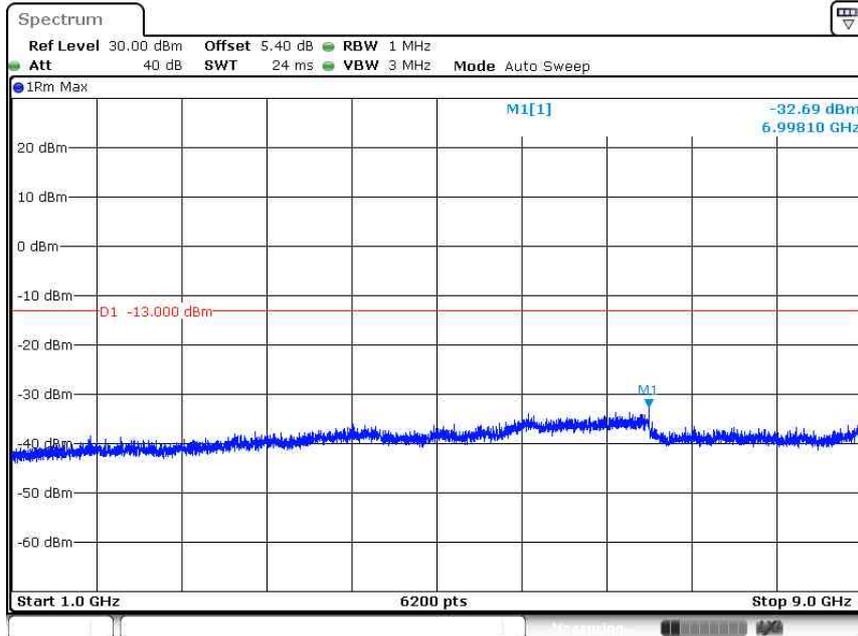


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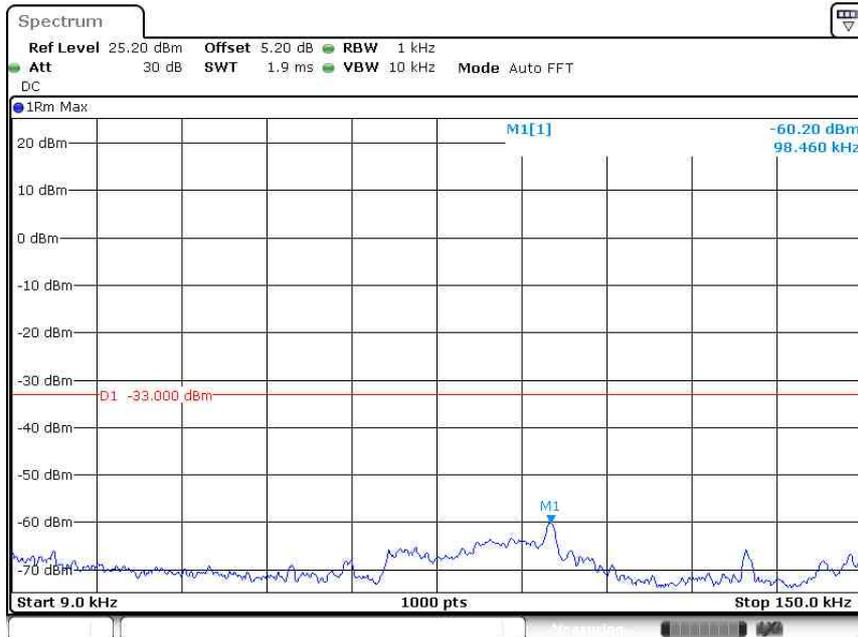


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Date: 12 JUL 2020 10:02:24

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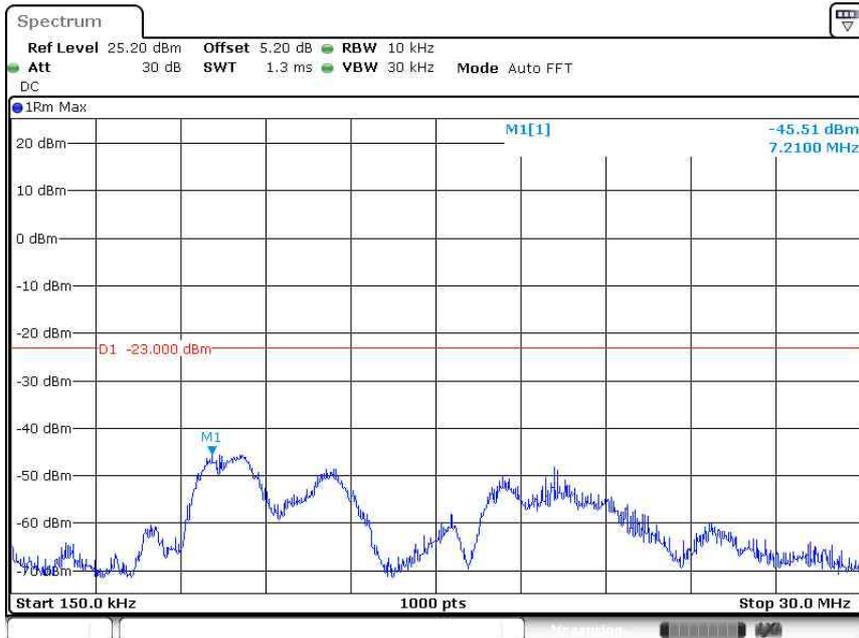
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Band V_4182



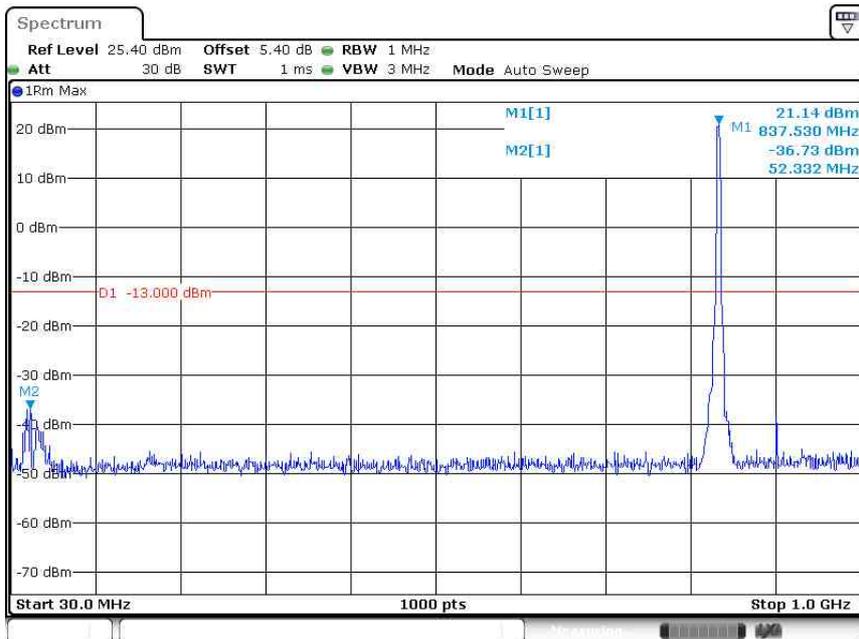
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Date: 12 JUL 2020 10:02:48

Band V_4182



Date: 12 JUL 2020 10:03:01

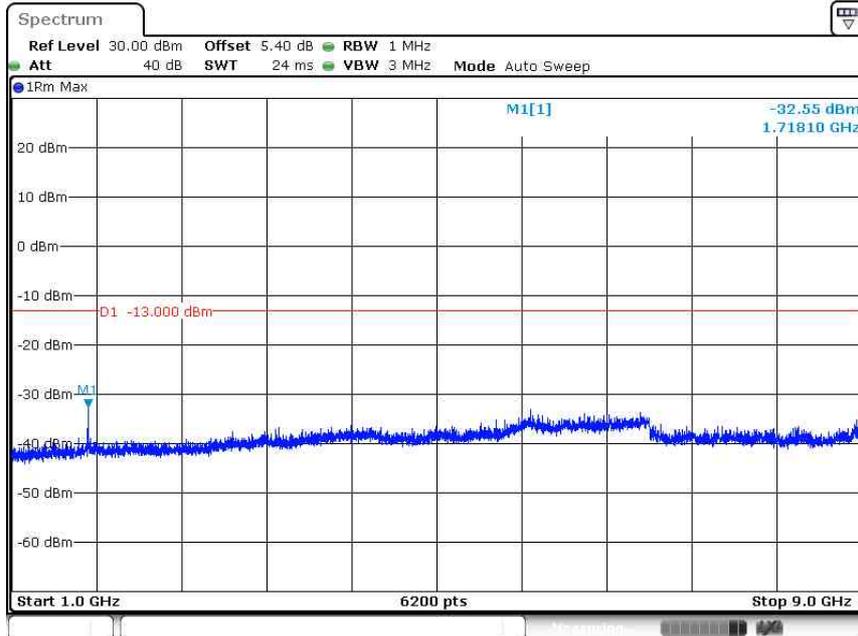
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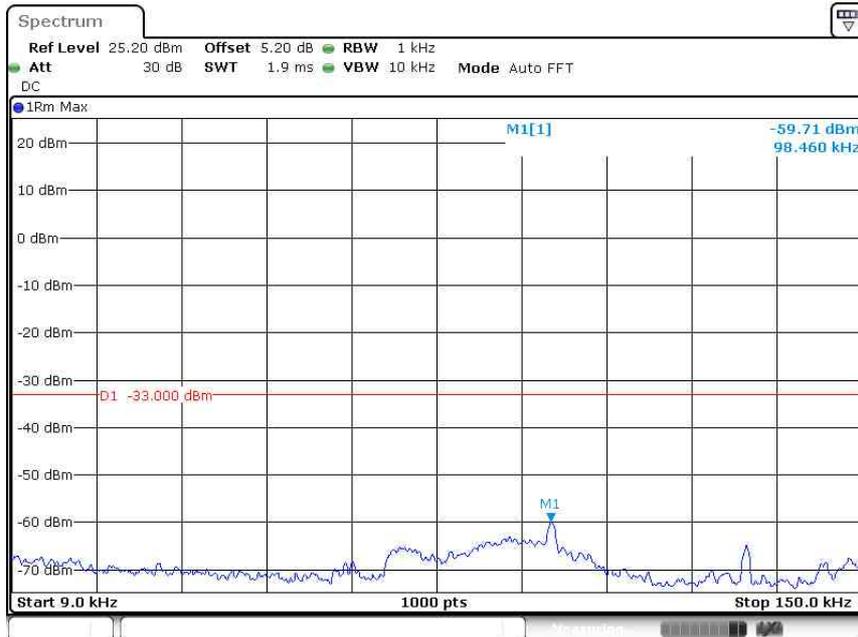
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Band V_4182



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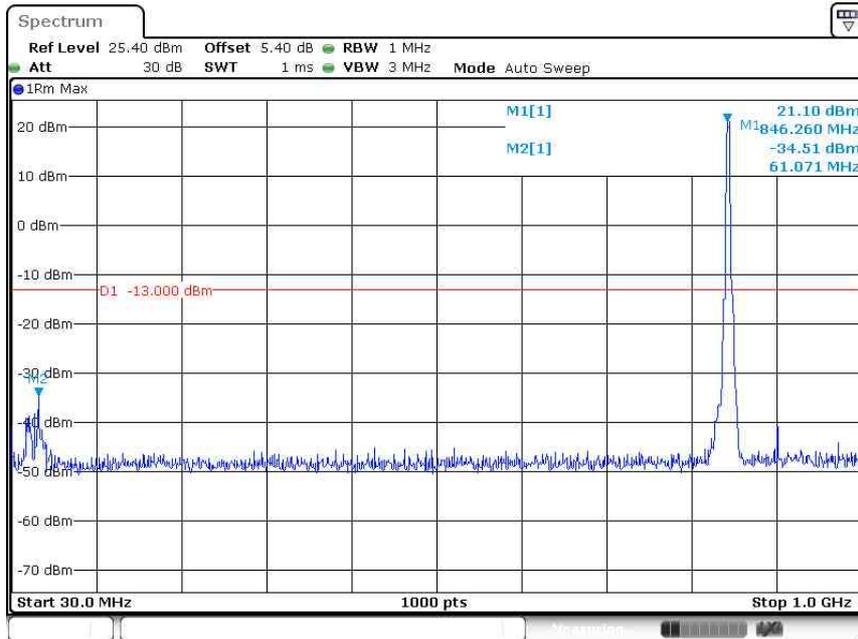


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Band V_4233



Date: 12 JUL 2020 10:03:51

Band V_4233



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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
48.1884	-72.73	-13.00	59.73	Vertical
112.7451	-64.72	-13.00	51.72	Vertical
401.2861	-67.77	-13.00	54.77	Vertical
5560.5854	-60.54	-13.00	47.54	Vertical
10463.2488	-51.59	-13.00	38.59	Vertical
17998.5000	-39.94	-13.00	26.94	Vertical
43.9202	-64.02	-13.00	51.02	Horizontal
239.9670	-67.83	-13.00	54.83	Horizontal
542.4766	-65.55	-13.00	52.55	Horizontal
3706.0235	-60.28	-13.00	47.28	Horizontal
5560.0853	-57.71	-13.00	44.71	Horizontal
16380.4460	-43.49	-13.00	30.49	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.7291	-71.88	-13.00	58.88	Vertical
110.8050	-64.72	-13.00	51.72	Vertical
402.3046	-67.43	-13.00	54.43	Vertical
3841.5281	-61.76	-13.00	48.76	Vertical
8027.6676	-55.20	-13.00	42.20	Vertical
17996.9999	-39.80	-13.00	26.80	Vertical
40.6220	-64.13	-13.00	51.13	Horizontal
232.6916	-68.50	-13.00	55.50	Horizontal



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7.2. Test Band = WCDMA Band IV

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.2483	-71.85	-13.00	58.85	Vertical
116.4798	-62.39	-13.00	49.39	Vertical
434.9953	-64.45	-13.00	51.45	Vertical
3422.5141	-56.14	-13.00	43.14	Vertical
7451.6484	-53.10	-13.00	40.10	Vertical
17999.5000	-33.99	-13.00	20.99	Vertical
44.9387	-62.56	-13.00	49.56	Horizontal
232.0126	-65.27	-13.00	52.27	Horizontal
605.0933	-60.87	-13.00	47.87	Horizontal
3422.5141	-57.61	-13.00	44.61	Horizontal
7469.1490	-53.11	-13.00	40.11	Horizontal
16404.9468	-35.53	-13.00	22.53	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.0615	-70.71	-13.00	57.71	Vertical
113.7637	-63.15	-13.00	50.15	Vertical
423.6457	-64.61	-13.00	51.61	Vertical
5119.5707	-58.80	-13.00	45.80	Vertical
8031.6677	-52.85	-13.00	39.85	Vertical
17999.0000	-33.32	-13.00	20.32	Vertical
43.5807	-62.02	-13.00	49.02	Horizontal
244.0897	-65.85	-13.00	52.85	Horizontal
608.1004	-61.19	-13.00	48.19	Horizontal
3599.0200	-59.75	-13.00	46.75	Horizontal



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7420.6474	-53.45	-13.00	40.45	Horizontal
16400.9467	-34.79	-13.00	21.79	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.6363	-71.06	-13.00	58.06	Vertical
113.1332	-62.43	-13.00	49.43	Vertical
290.4580	-65.97	-13.00	52.97	Vertical
3503.0168	-59.56	-13.00	46.56	Vertical
7435.1478	-53.32	-13.00	40.32	Vertical
17991.9997	-33.85	-13.00	20.85	Vertical
42.2226	-62.38	-13.00	49.38	Horizontal
234.0497	-65.02	-13.00	52.02	Horizontal
553.1957	-62.55	-13.00	49.55	Horizontal
5661.5887	-58.60	-13.00	45.60	Horizontal
9552.7184	-49.83	-13.00	36.83	Horizontal
16395.9465	-35.54	-13.00	22.54	Horizontal

7.3. Test Band = WCDMA Band V

7.3.1. Test Mode = WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.1998	-73.86	-13.00	60.86	Vertical
116.9648	-64.71	-13.00	51.71	Vertical
337.5539	-68.34	-13.00	55.34	Vertical
1950.9902	-57.84	-13.00	44.84	Vertical
2699.5399	-51.89	-13.00	38.89	Vertical
17999.0000	-39.88	-13.00	26.88	Vertical
44.8417	-64.23	-13.00	51.23	Horizontal
98.5824	-75.03	-13.00	62.03	Horizontal



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246.2723	-67.84	-13.00	54.84	Horizontal
1960.5921	-57.52	-13.00	44.52	Horizontal
2695.5391	-50.65	-13.00	37.65	Horizontal
16392.9464	-43.77	-13.00	30.77	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.3411	-72.11	-13.00	59.11	Vertical
113.8607	-64.68	-13.00	51.68	Vertical
249.8130	-70.83	-13.00	57.83	Vertical
1700.1400	-59.81	-13.00	46.81	Vertical
2510.3021	-49.44	-13.00	36.44	Vertical
17995.9999	-39.74	-13.00	26.74	Vertical
42.8531	-63.97	-13.00	50.97	Horizontal
238.8999	-68.45	-13.00	55.45	Horizontal
507.2639	-65.86	-13.00	52.86	Horizontal
1954.1908	-56.54	-13.00	43.54	Horizontal
2696.3393	-50.77	-13.00	37.77	Horizontal
16389.4463	-43.62	-13.00	30.62	Horizontal

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.9217	-70.79	-13.00	57.79	Vertical
107.3129	-64.61	-13.00	51.61	Vertical
386.2018	-67.64	-13.00	54.64	Vertical
1953.3907	-57.89	-13.00	44.89	Vertical
2518.3037	-51.95	-13.00	38.95	Vertical
17999.5000	-39.87	-13.00	26.87	Vertical
43.8232	-63.60	-13.00	50.60	Horizontal
99.5525	-75.68	-13.00	62.68	Horizontal
237.3479	-68.45	-13.00	55.45	Horizontal



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1950.9902	-56.81	-13.00	43.81	Horizontal
2518.3037	-50.19	-13.00	37.19	Horizontal
16366.4455	-43.60	-13.00	30.60	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 had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

BAND	Channel	Voltage					
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	12.15	0.006560	±2.5	PASS
Band II	9262	VN	TN	12.69	0.006850	±2.5	PASS
Band II	9262	VH	TN	13.34	0.007201	±2.5	PASS
Band II	9400	VL	TN	12.27	0.006525	±2.5	PASS
Band II	9400	VN	TN	13.73	0.007305	±2.5	PASS
Band II	9400	VH	TN	13.98	0.007438	±2.5	PASS
Band II	9538	VL	TN	8.77	0.004597	±2.5	PASS
Band II	9538	VN	TN	7.95	0.004166	±2.5	PASS
Band II	9538	VH	TN	7.97	0.004177	±2.5	PASS
Band IV	1312	VL	TN	10.80	0.006307	±2.5	PASS
Band IV	1312	VN	TN	10.93	0.006382	±2.5	PASS
Band IV	1312	VH	TN	11.90	0.006950	±2.5	PASS
Band IV	1413	VL	TN	15.11	0.008723	±2.5	PASS
Band IV	1413	VN	TN	11.64	0.006717	±2.5	PASS
Band IV	1413	VH	TN	11.56	0.006671	±2.5	PASS
Band IV	1513	VL	TN	-7.66	-0.004371	±2.5	PASS
Band IV	1513	VN	TN	-6.68	-0.003812	±2.5	PASS
Band IV	1513	VH	TN	-6.57	-0.003751	±2.5	PASS
Band V	4132	VL	TN	-2.05	-0.002475	±2.5	PASS
Band V	4132	VN	TN	-2.99	-0.003618	±2.5	PASS
Band V	4132	VH	TN	-2.43	-0.002943	±2.5	PASS
Band V	4182	VL	TN	-0.73	-0.000872	±2.5	PASS
Band V	4182	VN	TN	-1.82	-0.002181	±2.5	PASS
Band V	4182	VH	TN	-1.65	-0.001975	±2.5	PASS
Band V	4233	VL	TN	-1.72	-0.002028	±2.5	PASS



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Band V	4233	VN	TN	-1.82	-0.002154	±2.5	PASS
Band V	4233	VH	TN	-2.12	-0.002501	±2.5	PASS



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1.1 Frequency Vs Temperature

BAND	Channel	Voltage (Vdc)	Temperature			Limit (ppm)	Verdict
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
Band II	9262	VN	-30	13.64	0.007363	±2.5	PASS
Band II	9262	VN	-20	13.88	0.007495	±2.5	PASS
Band II	9262	VN	-10	12.83	0.006927	±2.5	PASS
Band II	9262	VN	0	13.57	0.007325	±2.5	PASS
Band II	9262	VN	10	12.95	0.006989	±2.5	PASS
Band II	9262	VN	20	13.44	0.007255	±2.5	PASS
Band II	9262	VN	30	13.73	0.007410	±2.5	PASS
Band II	9262	VN	40	13.73	0.007414	±2.5	PASS
Band II	9262	VN	50	12.02	0.006491	±2.5	PASS
Band II	9400	VN	-30	13.20	0.007019	±2.5	PASS
Band II	9400	VN	-20	12.86	0.006841	±2.5	PASS
Band II	9400	VN	-10	13.44	0.007149	±2.5	PASS
Band II	9400	VN	0	13.28	0.007061	±2.5	PASS
Band II	9400	VN	10	13.58	0.007225	±2.5	PASS
Band II	9400	VN	20	13.38	0.007115	±2.5	PASS
Band II	9400	VN	30	12.73	0.006772	±2.5	PASS
Band II	9400	VN	40	13.46	0.007160	±2.5	PASS
Band II	9400	VN	50	13.15	0.006997	±2.5	PASS
Band II	9538	VN	-30	8.15	0.004274	±2.5	PASS
Band II	9538	VN	-20	7.45	0.003907	±2.5	PASS
Band II	9538	VN	-10	7.34	0.003847	±2.5	PASS
Band II	9538	VN	0	8.80	0.004612	±2.5	PASS
Band II	9538	VN	10	8.45	0.004432	±2.5	PASS
Band II	9538	VN	20	7.93	0.004158	±2.5	PASS
Band II	9538	VN	30	7.94	0.004162	±2.5	PASS
Band II	9538	VN	40	8.30	0.004353	±2.5	PASS



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Band II	9538	VN	50	7.63	0.004001	±2.5	PASS
Band IV	1312	VN	-30	13.73	0.008016	±2.5	PASS
Band IV	1312	VN	-20	12.06	0.007042	±2.5	PASS
Band IV	1312	VN	-10	10.86	0.006345	±2.5	PASS
Band IV	1312	VN	0	12.84	0.007498	±2.5	PASS
Band IV	1312	VN	10	13.49	0.007878	±2.5	PASS
Band IV	1312	VN	20	11.59	0.006767	±2.5	PASS
Band IV	1312	VN	30	11.24	0.006562	±2.5	PASS
Band IV	1312	VN	40	12.25	0.007151	±2.5	PASS
Band IV	1312	VN	50	12.02	0.007017	±2.5	PASS
Band IV	1413	VN	-30	13.02	0.007517	±2.5	PASS
Band IV	1413	VN	-20	14.33	0.008269	±2.5	PASS
Band IV	1413	VN	-10	13.68	0.007897	±2.5	PASS
Band IV	1413	VN	0	12.92	0.007460	±2.5	PASS
Band IV	1413	VN	10	13.20	0.007617	±2.5	PASS
Band IV	1413	VN	20	13.31	0.007683	±2.5	PASS
Band IV	1413	VN	30	13.54	0.007815	±2.5	PASS
Band IV	1413	VN	40	14.93	0.008616	±2.5	PASS
Band IV	1413	VN	50	14.26	0.008228	±2.5	PASS
Band IV	1513	VN	-30	-7.03	-0.004012	±2.5	PASS
Band IV	1513	VN	-20	-5.00	-0.002853	±2.5	PASS
Band IV	1513	VN	-10	-8.55	-0.004881	±2.5	PASS
Band IV	1513	VN	0	-6.97	-0.003979	±2.5	PASS
Band IV	1513	VN	10	-6.27	-0.003575	±2.5	PASS
Band IV	1513	VN	20	-7.80	-0.004452	±2.5	PASS
Band IV	1513	VN	30	-6.95	-0.003963	±2.5	PASS
Band IV	1513	VN	40	-6.32	-0.003604	±2.5	PASS
Band IV	1513	VN	50	-6.77	-0.003861	±2.5	PASS
Band V	4132	VN	-30	-2.43	-0.002943	±2.5	PASS
Band V	4132	VN	-20	-3.13	-0.003782	±2.5	PASS
Band V	4132	VN	-10	-2.42	-0.002934	±2.5	PASS



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Band V	4132	VN	0	-3.44	-0.004163	±2.5	PASS
Band V	4132	VN	10	-1.77	-0.002146	±2.5	PASS
Band V	4132	VN	20	-1.90	-0.002302	±2.5	PASS
Band V	4132	VN	30	-1.96	-0.002371	±2.5	PASS
Band V	4132	VN	40	-2.47	-0.002986	±2.5	PASS
Band V	4132	VN	50	-2.29	-0.002770	±2.5	PASS
Band V	4182	VN	-30	-0.06	-0.000068	±2.5	PASS
Band V	4182	VN	-20	-1.07	-0.001283	±2.5	PASS
Band V	4182	VN	-10	-0.89	-0.001060	±2.5	PASS
Band V	4182	VN	0	-0.66	-0.000787	±2.5	PASS
Band V	4182	VN	10	-0.97	-0.001163	±2.5	PASS
Band V	4182	VN	20	-0.70	-0.000838	±2.5	PASS
Band V	4182	VN	30	-1.33	-0.001591	±2.5	PASS
Band V	4182	VN	40	-1.08	-0.001291	±2.5	PASS
Band V	4182	VN	50	-1.85	-0.002215	±2.5	PASS
Band V	4233	VN	-30	-2.02	-0.002391	±2.5	PASS
Band V	4233	VN	-20	-1.71	-0.002019	±2.5	PASS
Band V	4233	VN	-10	-2.05	-0.002425	±2.5	PASS
Band V	4233	VN	0	-2.15	-0.002535	±2.5	PASS
Band V	4233	VN	10	-1.84	-0.002171	±2.5	PASS
Band V	4233	VN	20	-1.44	-0.001698	±2.5	PASS
Band V	4233	VN	30	-1.95	-0.002306	±2.5	PASS
Band V	4233	VN	40	-1.87	-0.002205	±2.5	PASS
Band V	4233	VN	50	-1.97	-0.002332	±2.5	PASS

The End



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