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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	22.98	20.78	33.00	PASS
Band II	9400	23.08	20.88	33.00	PASS
Band II	9538	23.06	20.86	33.00	PASS
Band IV	1312	22.95	20.65	30.00	PASS
Band IV	1413	23.13	20.83	30.00	PASS
Band IV	1513	23.12	20.82	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.11	16.06	38.45	PASS
Band V	4182	23.14	16.09	38.45	PASS
Band V	4233	23.07	16.02	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]



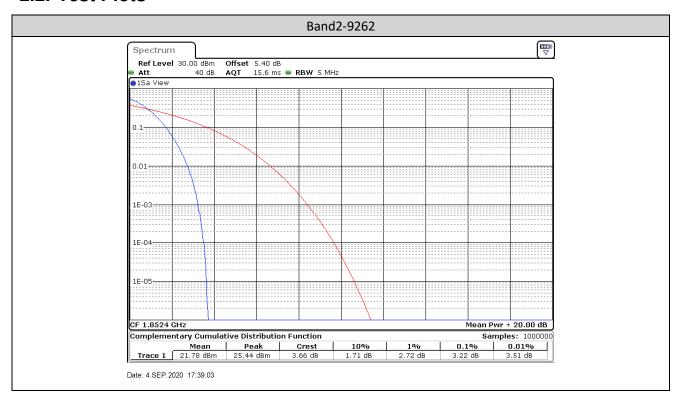
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.22	13	PASS
Band2	9400	3.25	13	PASS
Band2	9538	3.28	13	PASS
Band4	1312	3.22	13	PASS
Band4	1413	3.19	13	PASS
Band4	1513	3.25	13	PASS
Band5	4132	3.13	13	PASS
Band5	4182	3.19	13	PASS
Band5	4233	3.16	13	PASS

2.2. Test Plots



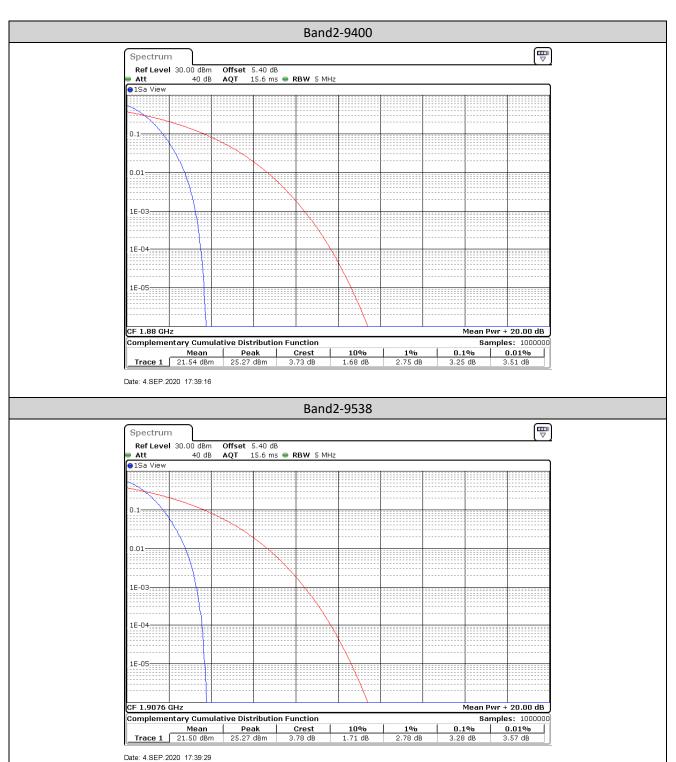


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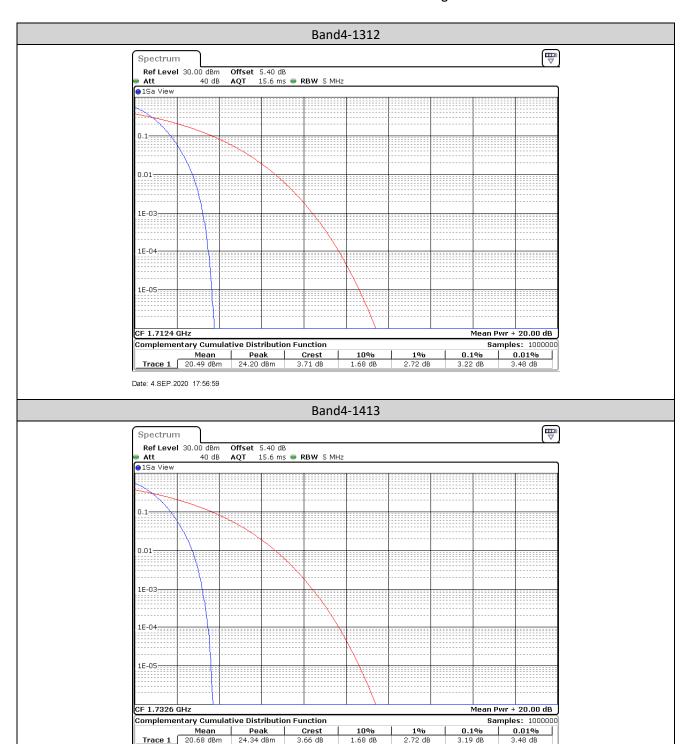
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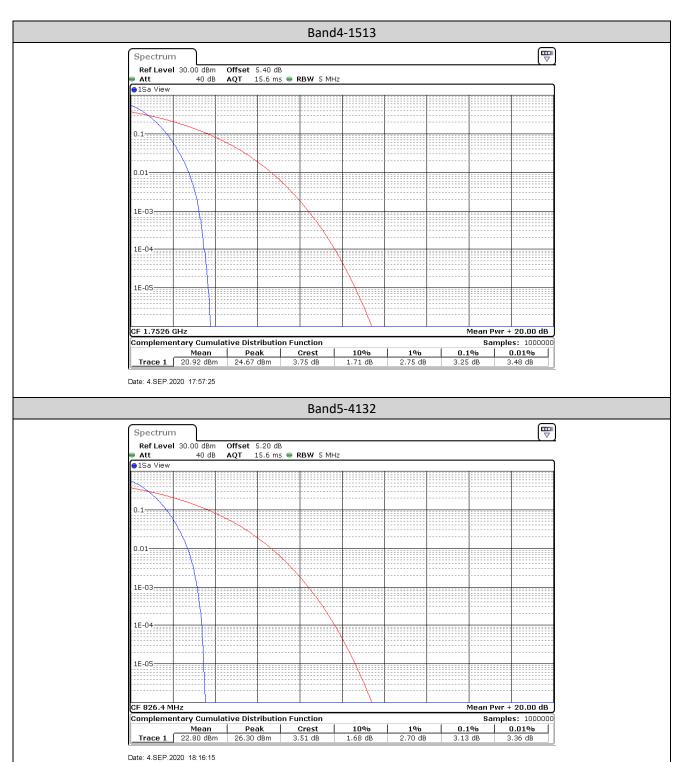
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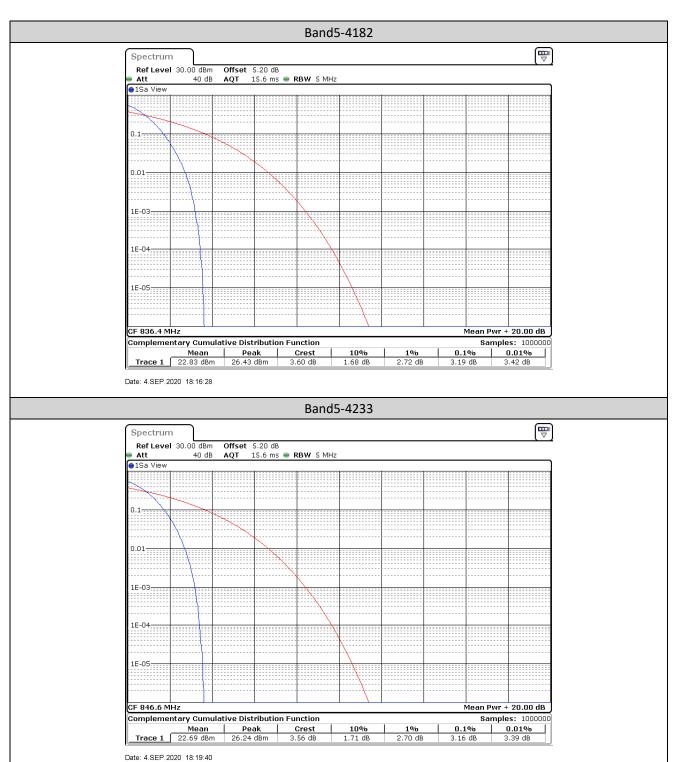


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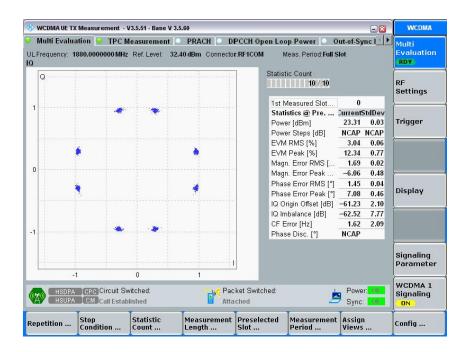
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.1.1.1.



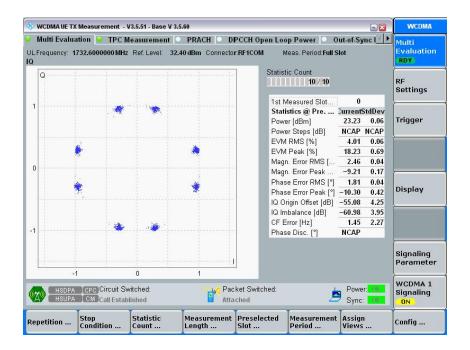


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3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



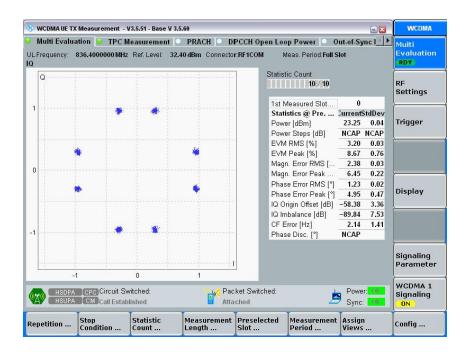


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3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.3.1.1.





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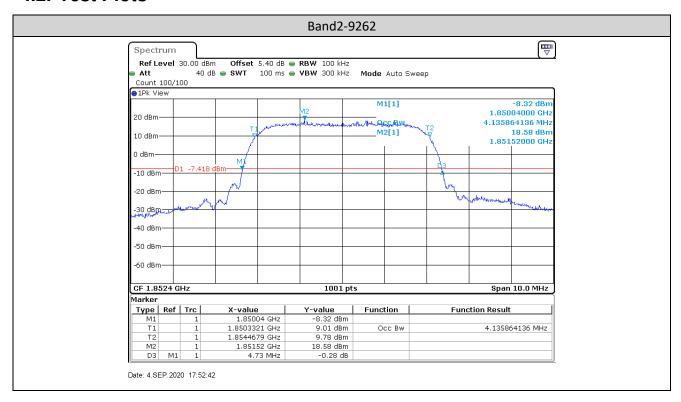
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.136	4.730		PASS
Band2	9400	4.136	4.720		PASS
Band2	9538	4.136	4.710		PASS
Band4	1312	4.126	4.710		PASS
Band4	1413	4.116	4.710		PASS
Band4	1513	4.116	4.710		PASS
Band5	4132	4.116	4.720		PASS
Band5	4182	4.136	4.730		PASS
Band5	4233	4.136	4.720		PASS

4.2. Test Plots



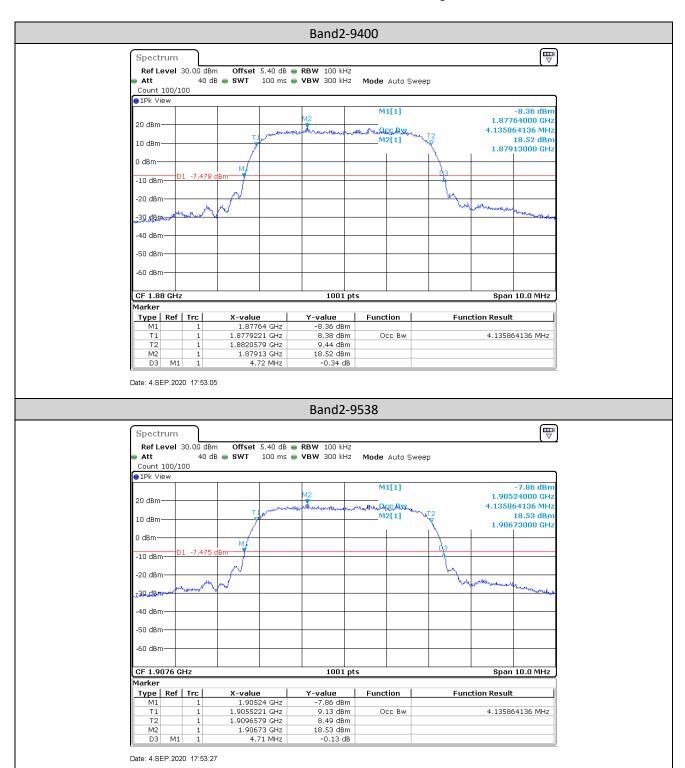


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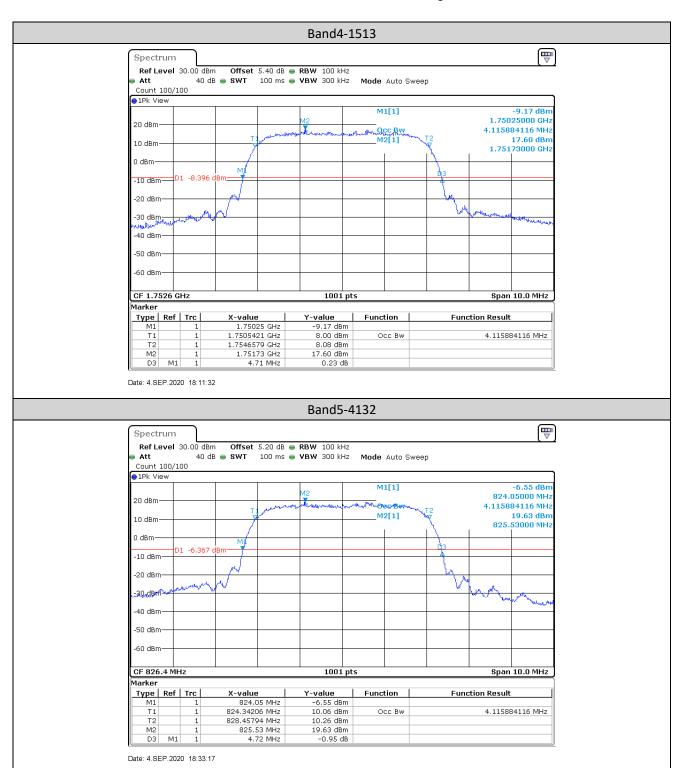


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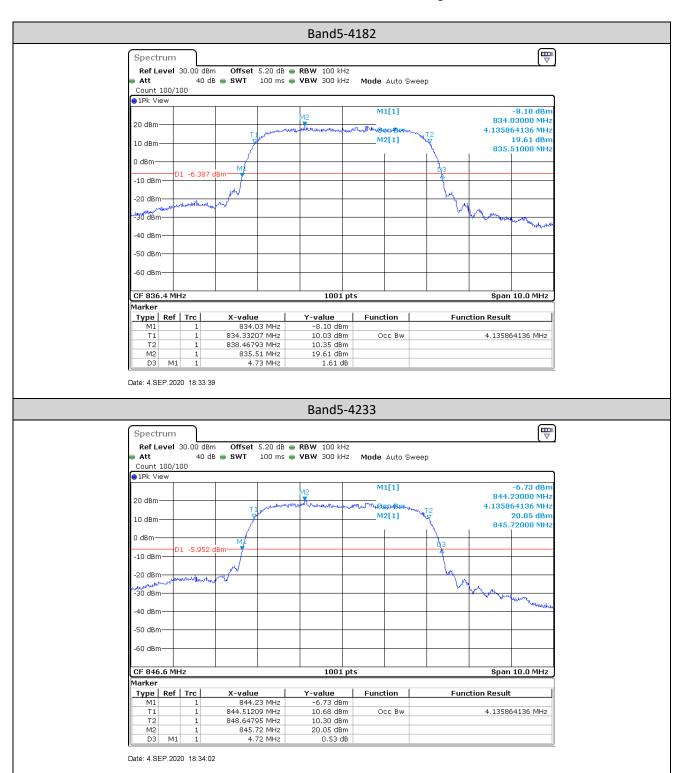


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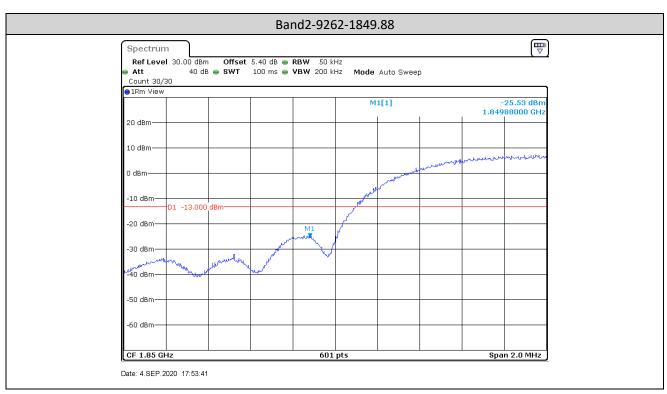
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5. Band Edge Compliance

5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.88	-24.46	-13	PASS
Band2	9538	1910.17	-24.79	-13	PASS
Band4	1312	1709.86	-26.93	-13	PASS
Band4	1513	1755.15	-26.65	-13	PASS
Band5	4132	823.85	-24.23	-13	PASS
Band5	4233	849.00	-24.25	-13	PASS

5.2. Test Plots





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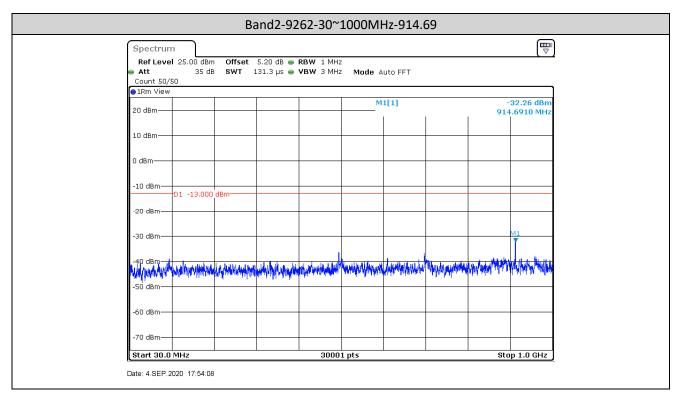
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6. Spurious Emission at Antenna Terminal

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.

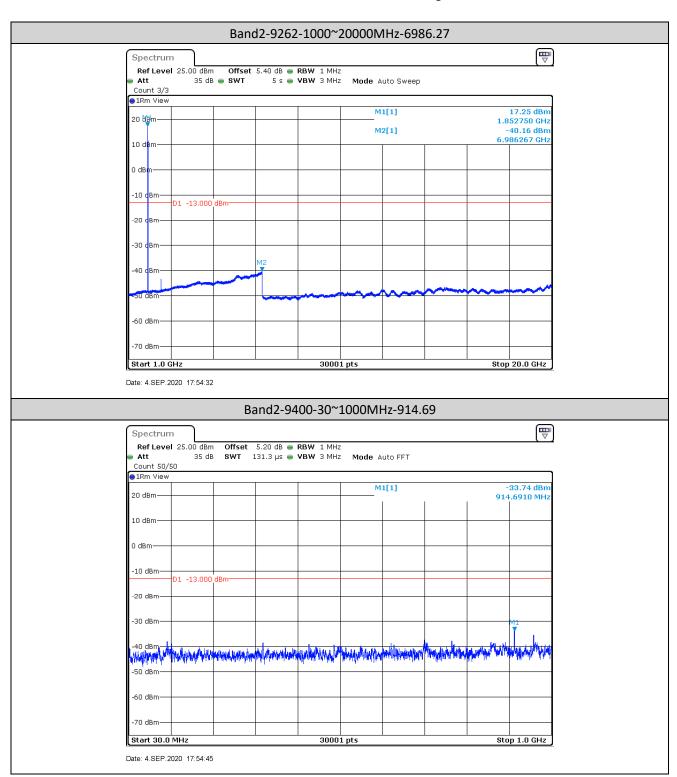
6.1. Test Plots





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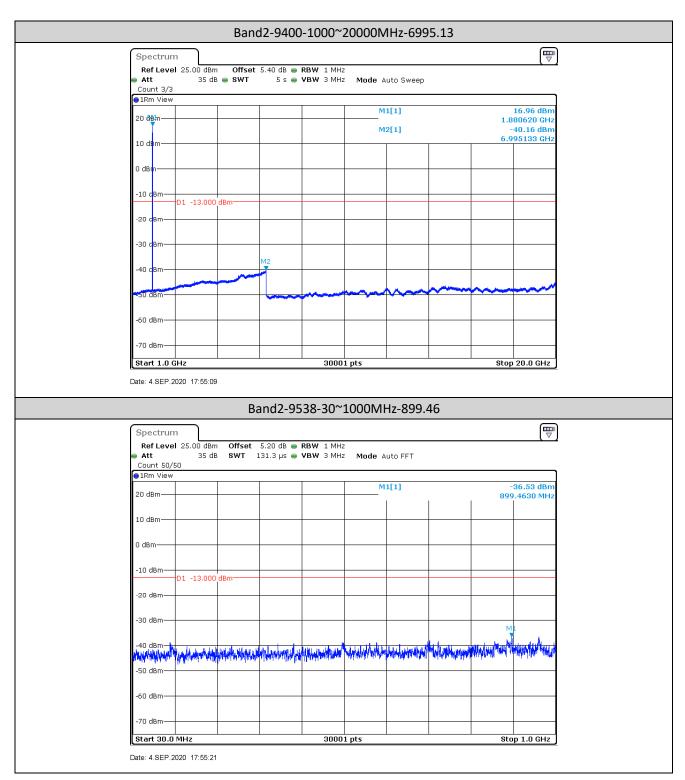


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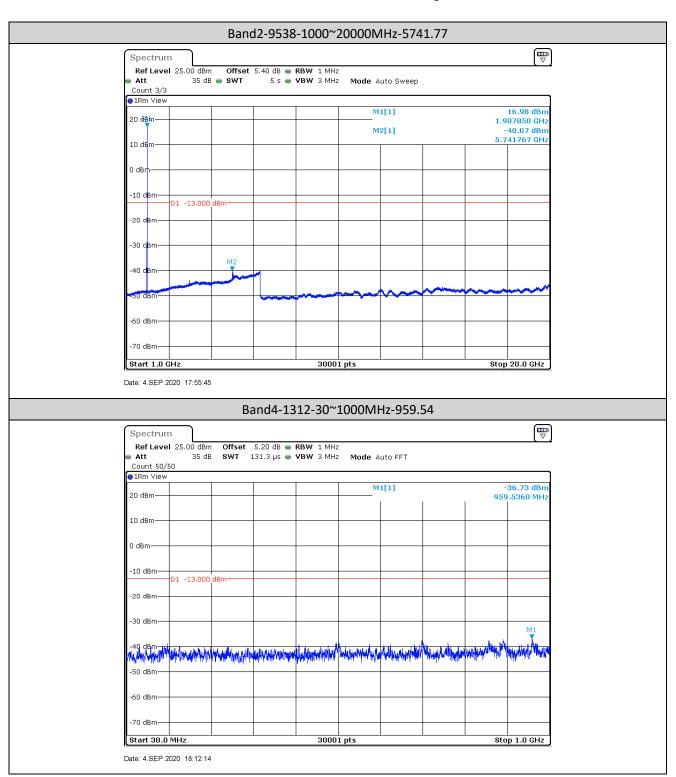


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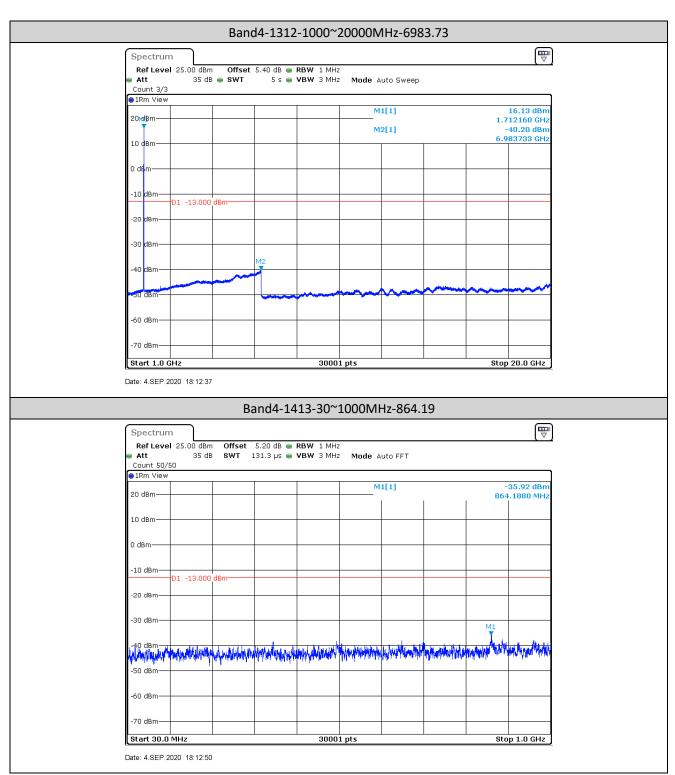


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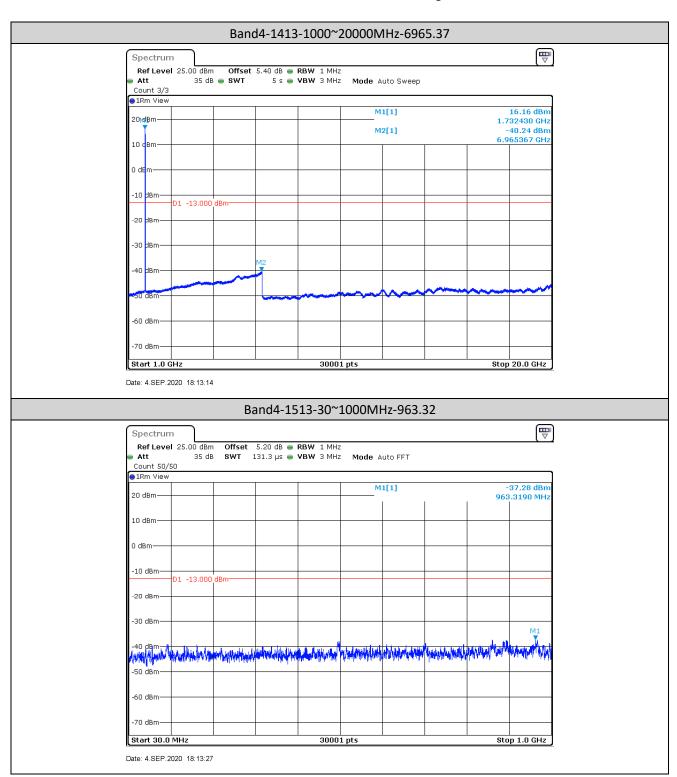


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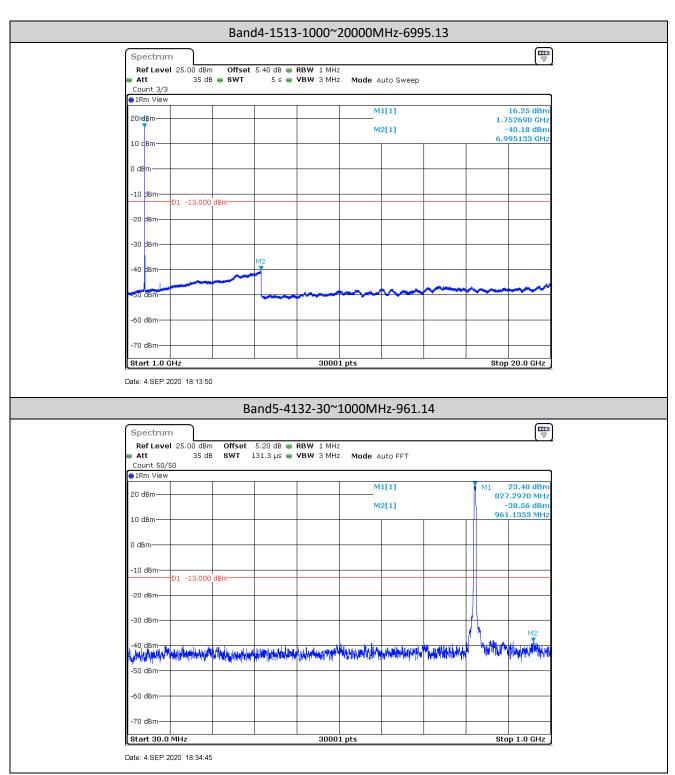


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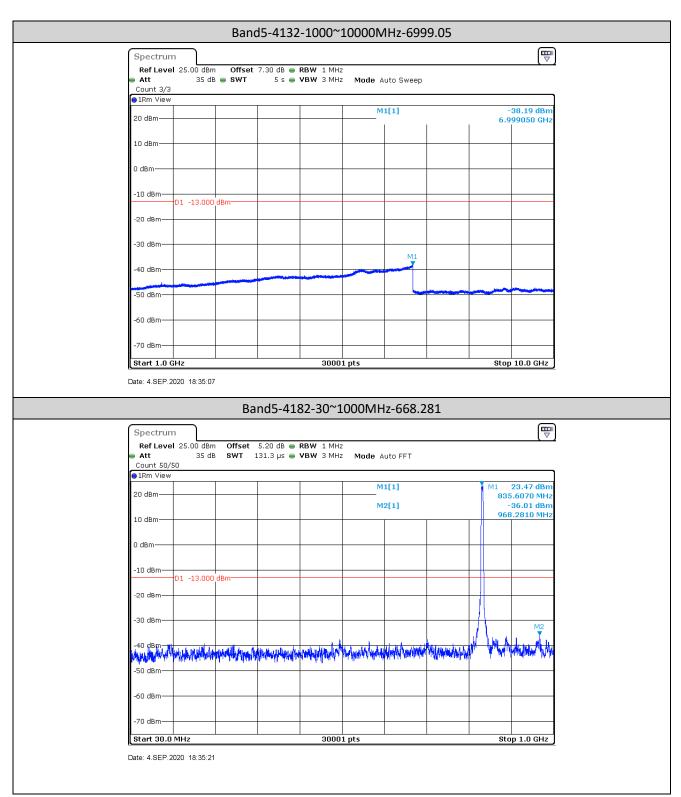


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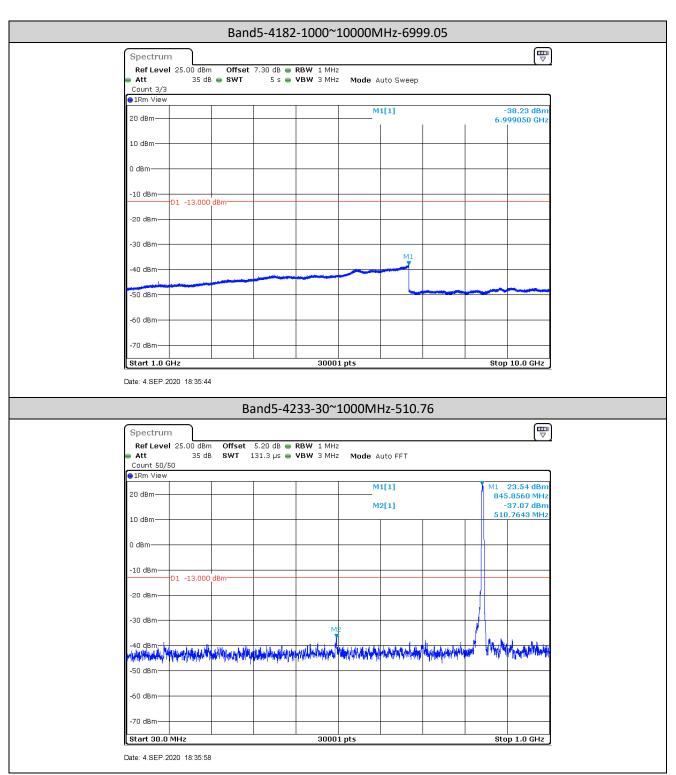


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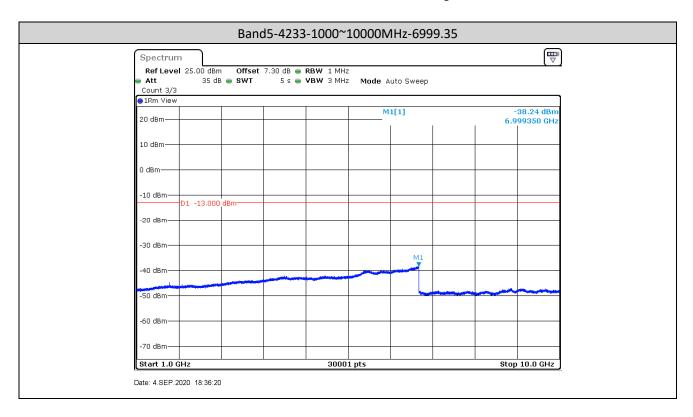


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7. Field Strength of Spurious Radiation

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
49.6435	-72.10	-13.00	59.10	Vertical
109.6410	-64.10	-13.00	51.10	Vertical
608.5369	-64.04	-13.00	51.04	Vertical
3748.0249	-61.15	-13.00	48.15	Vertical
10669.7557	-51.51	-13.00	38.51	Vertical
17991.4997	-40.16	-13.00	27.16	Vertical
44.3567	-64.06	-13.00	51.06	Horizontal
103.9662	-75.59	-13.00	62.59	Horizontal
243.7987	-68.45	-13.00	55.45	Horizontal
3706.5236	-59.85	-13.00	46.85	Horizontal
7460.1487	-56.21	-13.00	43.21	Horizontal
16394.9465	-43.60	-13.00	30.60	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.2141	-72.41	-13.00	59.41	Vertical
105.6638	-64.33	-13.00	51.33	Vertical
625.2218	-63.59	-13.00	50.59	Vertical
3758.5253	-61.00	-13.00	48.00	Vertical
7372.1457	-55.89	-13.00	42.89	Vertical
17991.4997	-39.63	-13.00	26.63	Vertical
39.3125	-64.29	-13.00	51.29	Horizontal
98.8249	-75.57	-13.00	62.57	Horizontal



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241.7131	-67.56	-13.00	54.56	Horizontal
3762.0254	-57.21	-13.00	44.21	Horizontal
7479.1493	-56.32	-13.00	43.32	Horizontal
16403.9468	-43.75	-13.00	30.75	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6435	-72.09	-13.00	59.09	Vertical
105.6638	-64.64	-13.00	51.64	Vertical
625.2703	-63.10	-13.00	50.10	Vertical
3817.5273	-60.67	-13.00	47.67	Vertical
7388.1463	-56.11	-13.00	43.11	Vertical
17997.9999	-40.16	-13.00	27.16	Vertical
46.2968	-63.65	-13.00	50.65	Horizontal
241.9071	-67.95	-13.00	54.95	Horizontal
595.2473	-64.18	-13.00	51.18	Horizontal
3814.0271	-54.44	-13.00	41.44	Horizontal
7417.1472	-56.54	-13.00	43.54	Horizontal
16386.4462	-43.79	-13.00	30.79	Horizontal

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
50.4680	-70.49	-13.00	57.49	Vertical
116.5283	-62.73	-13.00	49.73	Vertical
575.6038	-59.99	-13.00	46.99	Vertical
5069.5690	-59.60	-13.00	46.60	Vertical
9341.7114	-48.72	-13.00	35.72	Vertical
17981.4994	-33.86	-13.00	20.86	Vertical



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36.6448	-63.24	-13.00	50.24	Horizontal	
99.8920	-72.94	-13.00	59.94	Horizontal	
244.6717	-65.40	-13.00	52.40	Horizontal	
5175.0725	-59.54	-13.00	46.54	Horizontal	
9998.2333	-49.48	-13.00	36.48	Horizontal	
16402.4467	-35.56	-13.00	22.56	Horizontal	

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
50.4195	-70.47	-13.00	57.47	Vertical	
110.5625	-62.32	-13.00	49.32	Vertical	
592.3371	-61.64	-13.00	48.64	Vertical	
5647.0882	-59.34	-13.00	46.34	Vertical	
10597.7533	-47.98	-13.00	34.98	Vertical	
17993.9998	-34.26	-13.00	21.26	Vertical	
41.2526	-62.42	-13.00	49.42	Horizontal	
105.5668	-73.50	-13.00	60.50	Horizontal	
235.5048	-64.95	-13.00	51.95	Horizontal	
3597.5199	-59.70	-13.00	46.70	Horizontal	
7463.1488	-53.67	-13.00	40.67	Horizontal	
16396.4465	-35.44	-13.00	22.44	Horizontal	

7.2.1.3. Test Channel = HCH

Frequency (MHz)	uency (MHz) Level (dBm) Limit Line (dBm)		Margin (dB)	Polarization
52.1656	-70.50	-13.00	57.50	Vertical
109.2530	109.2530 -62.61		49.61	Vertical
597.6239	-60.33	-13.00	47.33	Vertical
5177.5726	-59.51	-13.00	46.51	Vertical
7459.1486	-53.37	-13.00	40.37	Vertical
17997.9999	-34.00	-13.00	21.00	Vertical
37.7119	-62.93	-13.00	49.93	Horizontal



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100.2800	-72.95	-13.00	59.95	Horizontal	
236.3778	-65.36	-13.00	52.36	Horizontal	
5081.0694	-58.94	-13.00	45.94	Horizontal	
7475.6492	-53.26	-13.00	40.26	Horizontal	
16409.9470	-35.35	-13.00	22.35	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	
46.8303	-71.82	-13.00	58.82	Vertical	
115.8978	-64.32	-13.00	51.32	Vertical	
340.0760	-68.92	-13.00	55.92	Vertical	
1789.7580	-59.96	-13.00	46.96	Vertical	
2697.9396	-52.02	-13.00	39.02	Vertical	
9858.1286	-51.49	-13.00	38.49	Vertical	
43.2412	-64.42	-13.00	51.42	Horizontal	
82.9646	-75.18	-13.00	62.18	Horizontal	
242.4891	-67.74	-13.00	54.74	Horizontal	
1595.3191	-61.29	-13.00	48.29	Horizontal	
2702.3405	-50.69	-13.00	37.69	Horizontal	
9328.6776	-51.81	-13.00	38.81	Horizontal	

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Level (dBm) Limit Line (dBm)		Polarization	
47.8004	47.8004 -72.36 -13.00		59.36	Vertical	
115.5098	-64.13	-13.00	51.13	Vertical	
396.2418	-67.80	-13.00	54.80	Vertical	
1780.1560	-58.10	-13.00	45.10	Vertical	
2690.7381	-51.83	-13.00	38.83	Vertical	



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9903.1634	-52.05	-13.00	39.05	Vertical	
43.5807	-62.91	-13.00	49.91	Horizontal	
86.9418	-75.50	-13.00	62.50	Horizontal	
240.1610	-67.09	-13.00	54.09	Horizontal	
1778.5557	-58.62	-13.00	45.62	Horizontal	
2703.1406	-50.84	-13.00	37.84	Horizontal	
9314.9105	-52.67	-13.00	39.67	Horizontal	

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4010	-73.01	-13.00	60.01	Vertical
109.0590	-63.06	-13.00	50.06	Vertical
380.4785	-67.88	-13.00	54.88	Vertical
1770.9542	-56.73	-13.00	43.73	Vertical
2849.1698	-51.78	-13.00	38.78	Vertical
9818.6940	-52.04	-13.00	39.04	Vertical
42.9016	-64.59	-13.00	51.59	Horizontal
102.3656	-75.43	-13.00	62.43	Horizontal
243.7502	-68.36	-13.00	55.36	Horizontal
1768.9538	-57.54	-13.00	44.54	Horizontal
2703.1406	-50.76	-13.00	37.76	Horizontal
9611.2537	-52.70	-13.00	39.70	Horizontal



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Test on the worst care:

7.3.1.4. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
31.0186	-75.12	-13.00	62.12	Vertical	
110.0775	-63.17	-13.00	50.17	Vertical	
678.7684	-63.54	-13.00	50.54	Vertical	
5070.5690	-61.62	-13.00	48.62	Vertical	
7364.1455	-55.69	-13.00	42.69	Vertical	
17994.4998	-40.50	-13.00	27.50	Vertical	
45.4238	-64.14	-13.00	51.14	Horizontal	
98.7764	-76.28	-13.00	63.28	Horizontal	
237.1054	-68.08	-13.00	55.08	Horizontal	
3602.5201	-61.10	-13.00	48.10	Horizontal	
7459.1486	-56.21	-13.00	43.21	Horizontal	
16376.9459	-43.78	-13.00	30.78	Horizontal	

Remark:

- 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

			Vo	oltage			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	-1.97	-0.001063	±2.5	PASS
Band2	9262	VN	NT	-2.72	-0.001468	±2.5	PASS
Band2	9262	VH	NT	-1.36	-0.000734	±2.5	PASS
Band2	9400	VL	NT	-2.09	-0.001112	±2.5	PASS
Band2	9400	VN	NT	-2.03	-0.001080	±2.5	PASS
Band2	9400	VH	NT	-2.20	-0.001170	±2.5	PASS
Band2	9538	VL	NT	-4.94	-0.002590	±2.5	PASS
Band2	9538	VN	NT	-4.99	-0.002616	±2.5	PASS
Band2	9538	VH	NT	-5.07	-0.002658	±2.5	PASS
Band4	1312	VL	NT	9.63	0.005624	±2.5	PASS
Band4	1312	VN	NT	9.14	0.005338	±2.5	PASS
Band4	1312	VH	NT	9.72	0.005676	±2.5	PASS
Band4	1413	VL	NT	-1.89	-0.001091	±2.5	PASS
Band4	1413	VN	NT	-1.72	-0.000993	±2.5	PASS
Band4	1413	VH	NT	-1.85	-0.001068	±2.5	PASS
Band4	1513	VL	NT	-10.18	-0.005809	±2.5	PASS
Band4	1513	VN	NT	-10.02	-0.005717	±2.5	PASS
Band4	1513	VH	NT	-10.24	-0.005843	±2.5	PASS
Band5	4132	VL	NT	-0.27	-0.000327	±2.5	PASS
Band5	4132	VN	NT	-0.65	-0.000787	±2.5	PASS
Band5	4132	VH	NT	-0.12	-0.000145	±2.5	PASS
Band5	4182	VL	NT	-0.09	-0.000108	±2.5	PASS
Band5	4182	VN	NT	-0.34	-0.000407	±2.5	PASS
Band5	4182	VH	NT	-0.13	-0.000155	±2.5	PASS
Band5	4233	VL	NT	-2.61	-0.003083	±2.5	PASS
Band5	4233	VN	NT	-3.43	-0.004052	±2.5	PASS
Band5	4233	VH	NT	-1.65	-0.001949	±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
Band2	9262	NV	-30	-0.93	-0.000502	±2.5	PASS
Band2	9262	NV	-20	-1.18	-0.000637	±2.5	PASS
Band2	9262	NV	-10	-0.62	-0.000335	±2.5	PASS
Band2	9262	NV	0	-0.32	-0.000173	±2.5	PASS
Band2	9262	NV	10	-0.44	-0.000238	±2.5	PASS
Band2	9262	NV	20	-0.14	-0.000076	±2.5	PASS
Band2	9262	NV	30	-0.06	-0.000032	±2.5	PASS
Band2	9262	NV	40	-0.11	-0.000059	±2.5	PASS
Band2	9262	NV	50	0.03	0.000016	±2.5	PASS
Band2	9400	NV	-30	-2.11	-0.001122	±2.5	PASS
Band2	9400	NV	-20	-2.15	-0.001144	±2.5	PASS
Band2	9400	NV	-10	-2.23	-0.001186	±2.5	PASS
Band2	9400	NV	0	-2.32	-0.001234	±2.5	PASS
Band2	9400	NV	10	-2.46	-0.001309	±2.5	PASS
Band2	9400	NV	20	-2.27	-0.001207	±2.5	PASS
Band2	9400	NV	30	-2.27	-0.001207	±2.5	PASS
Band2	9400	NV	40	-2.40	-0.001277	±2.5	PASS
Band2	9400	NV	50	-2.29	-0.001218	±2.5	PASS
Band2	9538	NV	-30	-4.94	-0.002590	±2.5	PASS
Band2	9538	NV	-20	-4.66	-0.002443	±2.5	PASS
Band2	9538	NV	-10	-4.94	-0.002590	±2.5	PASS
Band2	9538	NV	0	-4.88	-0.002558	±2.5	PASS
Band2	9538	NV	10	-4.89	-0.002563	±2.5	PASS
Band2	9538	NV	20	-4.77	-0.002501	±2.5	PASS
Band2	9538	NV	30	-5.06	-0.002653	±2.5	PASS
Band2	9538	NV	40	-4.81	-0.002521	±2.5	PASS
Band2	9538	NV	50	-4.82	-0.002527	±2.5	PASS
Band4	1312	NV	-30	9.98	0.005828	±2.5	PASS
Band4	1312	NV	-20	10.13	0.005916	±2.5	PASS
Band4	1312	NV	-10	10.24	0.005980	±2.5	PASS
Band4	1312	NV	0	10.16	0.005933	±2.5	PASS
Band4	1312	NV	10	10.22	0.005968	±2.5	PASS
Band4	1312	NV	20	10.48	0.006120	±2.5	PASS



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Band4	1312	NV	30	10.65	0.006219	±2.5	PASS
Band4	1312	NV	40	10.59	0.006184	±2.5	PASS
Band4	1312	NV	50	10.80	0.006307	±2.5	PASS
Band4	1413	NV	-30	-1.87	-0.001079	±2.5	PASS
Band4	1413	NV	-20	-1.92	-0.001108	±2.5	PASS
Band4	1413	NV	-10	-2.28	-0.001316	±2.5	PASS
Band4	1413	NV	0	-2.15	-0.001241	±2.5	PASS
Band4	1413	NV	10	-2.07	-0.001195	±2.5	PASS
Band4	1413	NV	20	-2.07	-0.001195	±2.5	PASS
Band4	1413	NV	30	-2.15	-0.001241	±2.5	PASS
Band4	1413	NV	40	-2.20	-0.001270	±2.5	PASS
Band4	1413	NV	50	-2.07	-0.001195	±2.5	PASS
Band4	1513	NV	-30	-10.22	-0.005831	±2.5	PASS
Band4	1513	NV	-20	-10.09	-0.005757	±2.5	PASS
Band4	1513	NV	-10	-9.91	-0.005654	±2.5	PASS
Band4	1513	NV	0	-10.01	-0.005712	±2.5	PASS
Band4	1513	NV	10	-9.93	-0.005666	±2.5	PASS
Band4	1513	NV	20	-9.93	-0.005666	±2.5	PASS
Band4	1513	NV	30	-10.06	-0.005740	±2.5	PASS
Band4	1513	NV	40	-10.03	-0.005723	±2.5	PASS
Band4	1513	NV	50	-9.97	-0.005689	±2.5	PASS
Band5	4132	NV	-30	-0.21	-0.000254	±2.5	PASS
Band5	4132	NV	-20	-0.09	-0.000109	±2.5	PASS
Band5	4132	NV	-10	-0.08	-0.000097	±2.5	PASS
Band5	4132	NV	0	-0.01	-0.000012	±2.5	PASS
Band5	4132	NV	10	0.08	0.000097	±2.5	PASS
Band5	4132	NV	20	-0.04	-0.000048	±2.5	PASS
Band5	4132	NV	30	-0.04	-0.000048	±2.5	PASS
Band5	4132	NV	40	-0.02	-0.000024	±2.5	PASS
Band5	4132	NV	50	0.08	0.000097	±2.5	PASS
Band5	4182	NV	-30	-0.06	-0.000072	±2.5	PASS
Band5	4182	NV	-20	-0.29	-0.000347	±2.5	PASS
Band5	4182	NV	-10	-0.23	-0.000275	±2.5	PASS
Band5	4182	NV	0	-0.19	-0.000227	±2.5	PASS
Band5	4182	NV	10	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	20	-0.07	-0.000084	±2.5	PASS
Band5	4182	NV	30	-0.11	-0.000132	±2.5	PASS



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Band5	4182	NV	40	-0.12	-0.000143	±2.5	PASS
Band5	4182	NV	50	-0.16	-0.000191	±2.5	PASS
Band5	4233	NV	-30	-0.64	-0.000756	±2.5	PASS
Band5	4233	NV	-20	-1.32	-0.001559	±2.5	PASS
Band5	4233	NV	-10	-1.71	-0.002020	±2.5	PASS
Band5	4233	NV	0	-1.76	-0.002079	±2.5	PASS
Band5	4233	NV	10	-0.63	-0.000744	±2.5	PASS
Band5	4233	NV	20	-1.75	-0.002067	±2.5	PASS
Band5	4233	NV	30	-1.54	-0.001819	±2.5	PASS
Band5	4233	NV	40	-1.72	-0.002032	±2.5	PASS
Band5	4233	NV	50	-1.66	-0.001961	±2.5	PASS

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