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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	23.05	24.66	33.00	PASS
Band II	9400	23.11	24.72	33.00	PASS
Band II	9538	22.97	24.58	33.00	PASS
Band IV	1312	23.65	24.52	30.00	PASS
Band IV	1413	23.58	24.45	30.00	PASS
Band IV	1513	23.62	24.49	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.15	20.32	38.45	PASS
Band V	4182	23.25	20.42	38.45	PASS
Band V	4233	23.15	20.32	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]



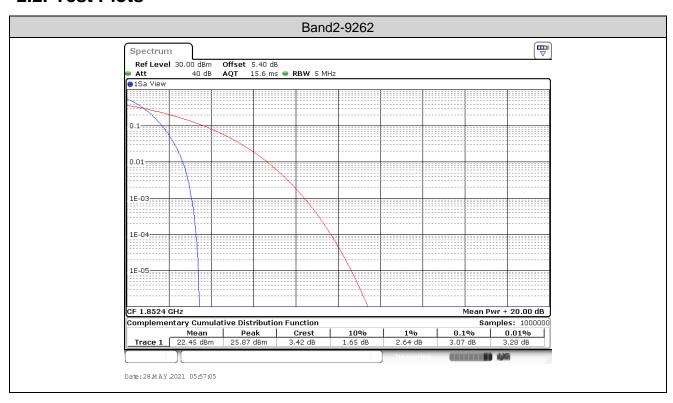
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.07	13	PASS
Band2	9400	3.25	13	PASS
Band2	9538	3.13	13	PASS
Band4	1312	3.13	13	PASS
Band4	1413	3.22	13	PASS
Band4	1513	3.13	13	PASS
Band5	4132	3.16	13	PASS
Band5	4182	2.99	13	PASS
Band5	4233	3.07	13	PASS

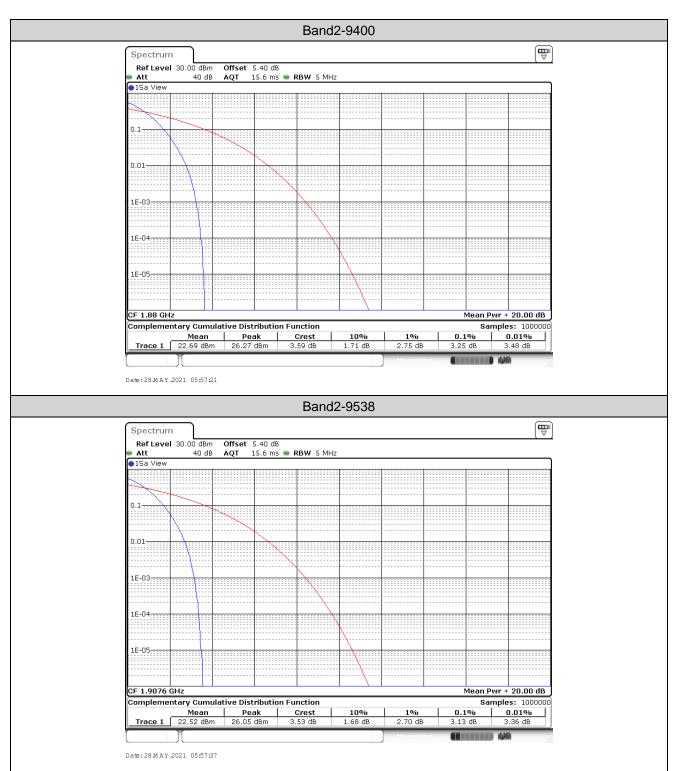
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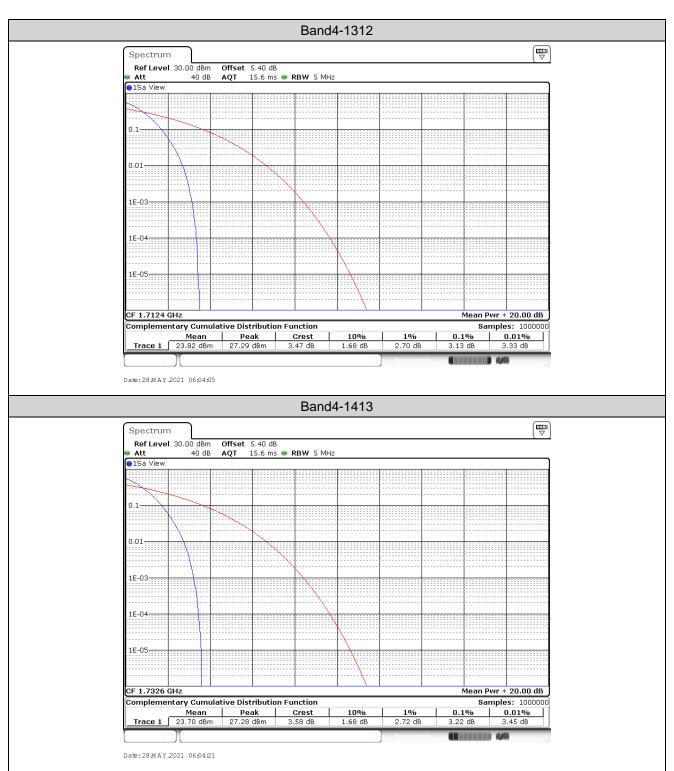
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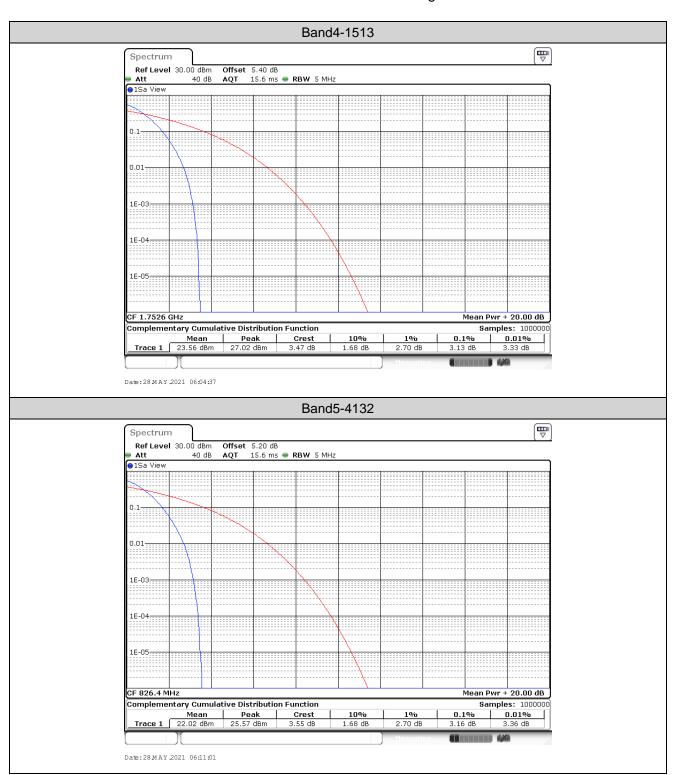
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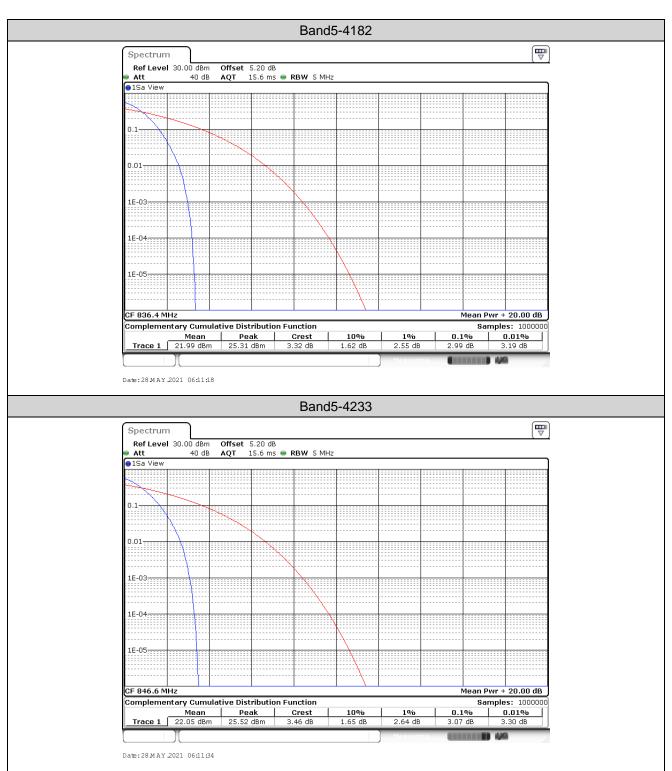
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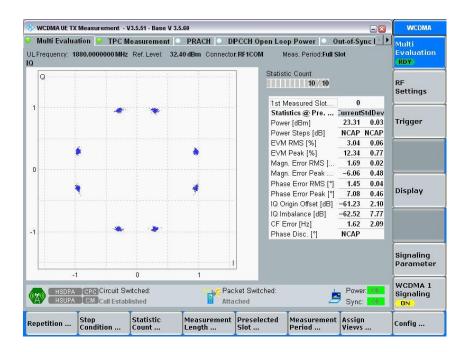
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1.Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



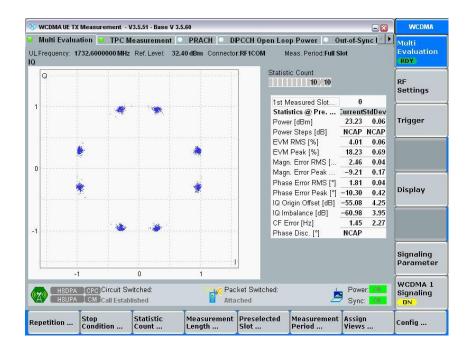


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3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



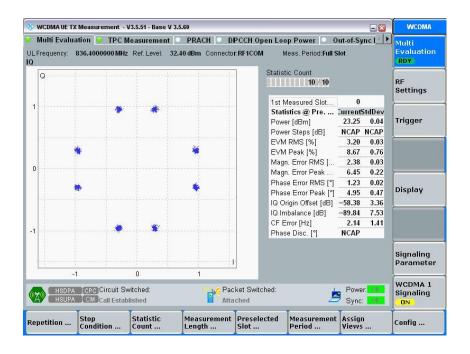


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3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH





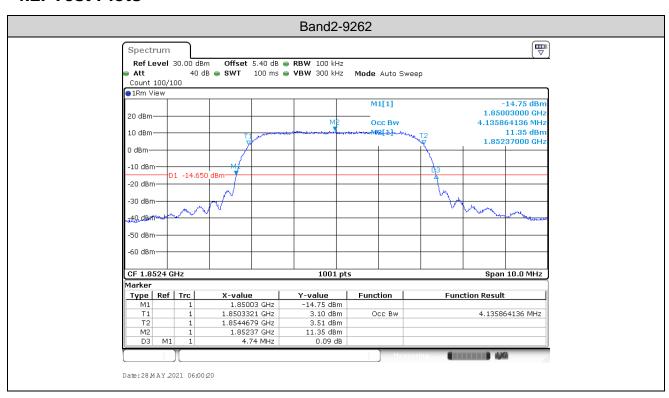
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.136	4.740		PASS
Band2	9400	4.136	4.740		PASS
Band2	9538	4.136	4.740		PASS
Band4	1312	4.136	4.740		PASS
Band4	1413	4.136	4.740		PASS
Band4	1513	4.136	4.740		PASS
Band5	4132	4.136	4.750		PASS
Band5	4182	4.176	4.760		PASS
Band5	4233	4.146	4.760		PASS

4.2. Test Plots





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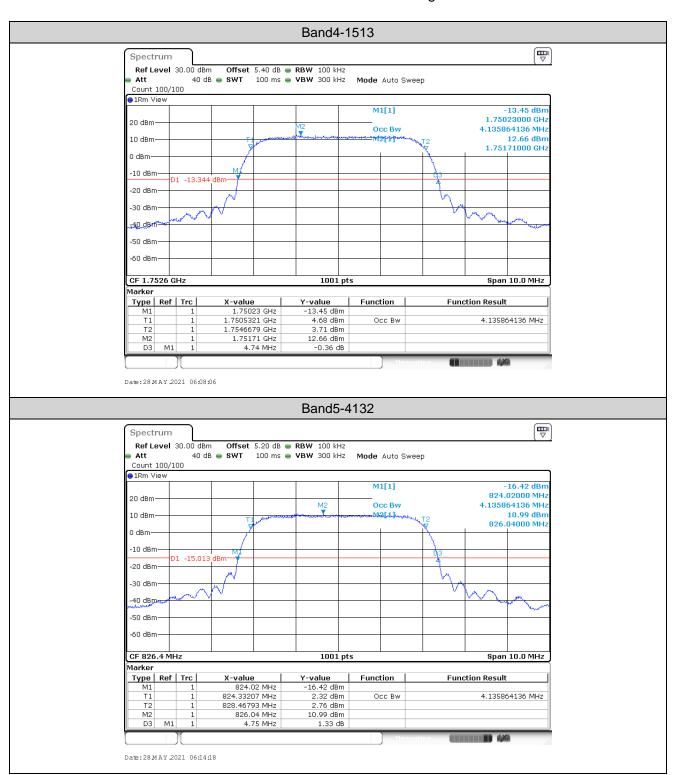
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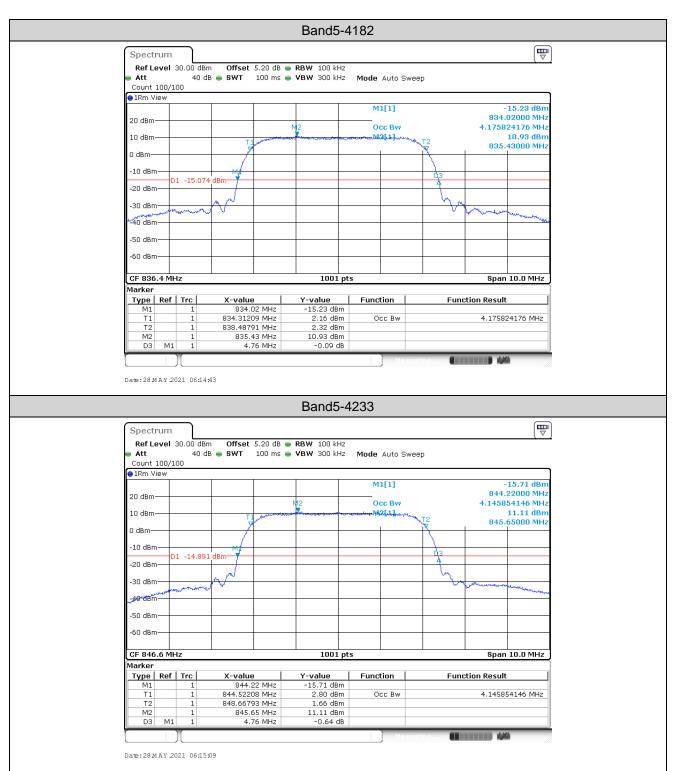
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5. Band Edge Compliance

5.1. Test Plots





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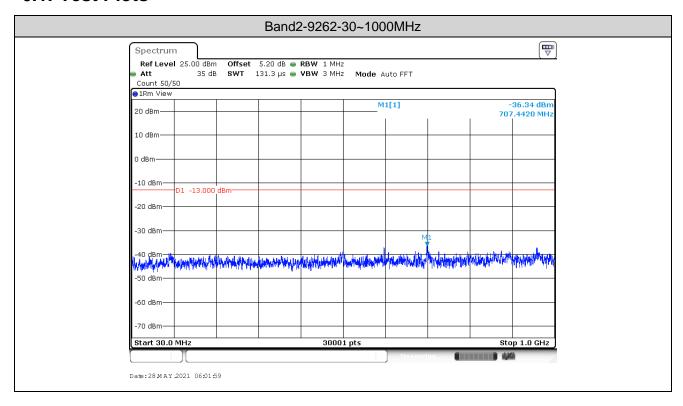


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6. Spurious Emission at Antenna Terminal

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 = 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

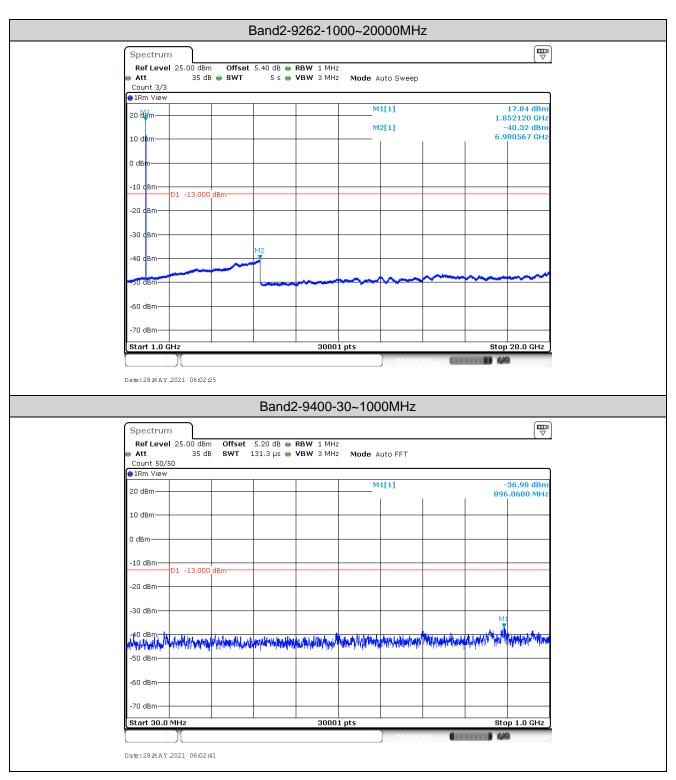






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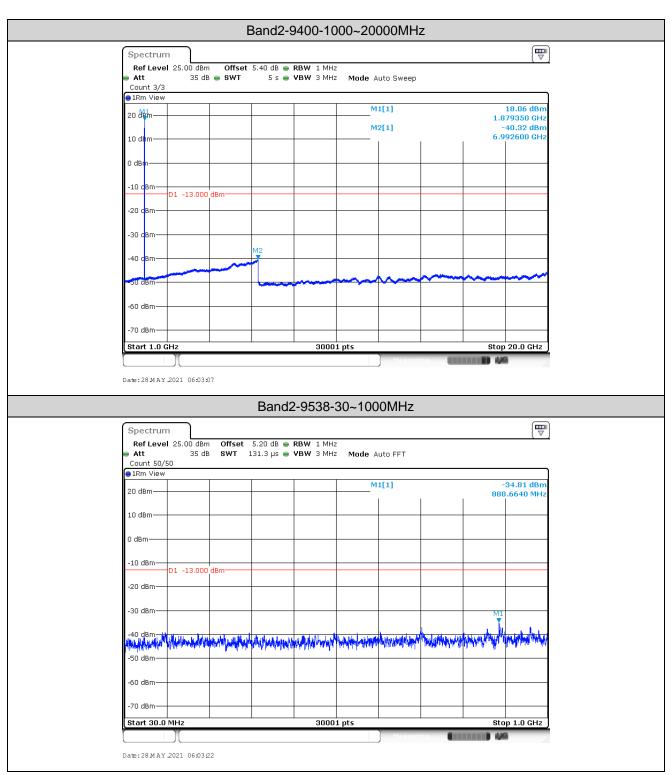
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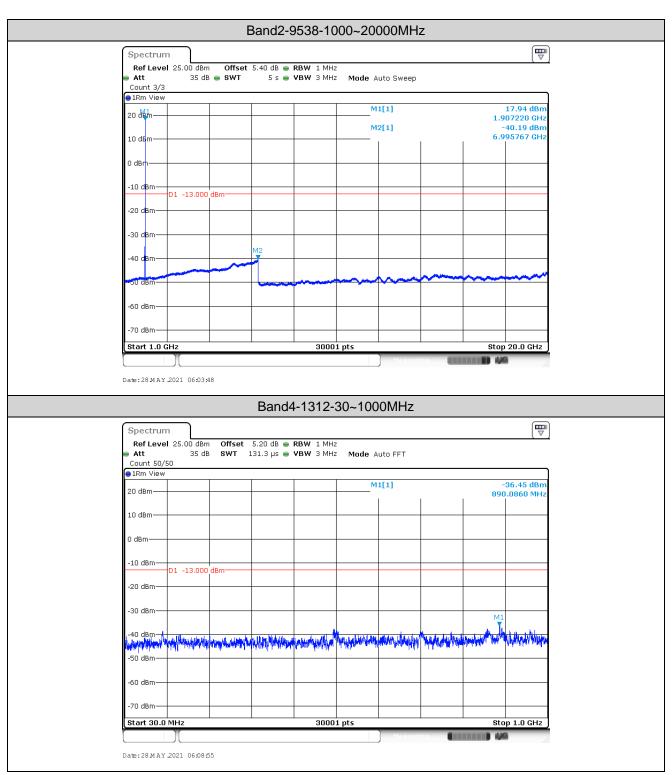
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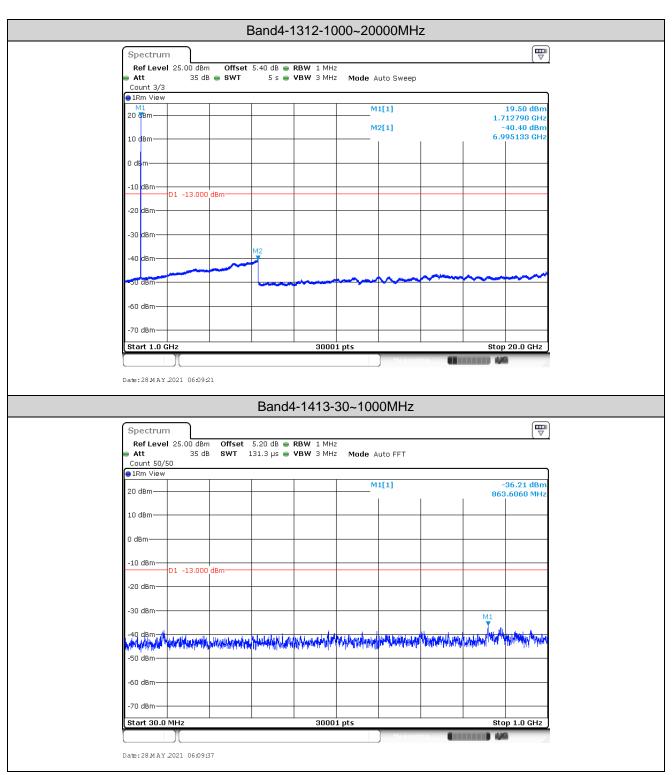
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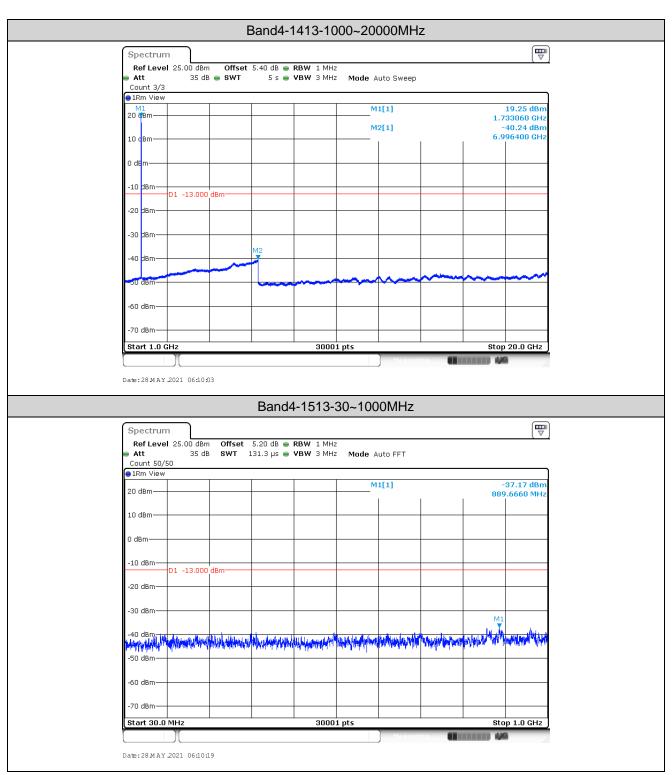
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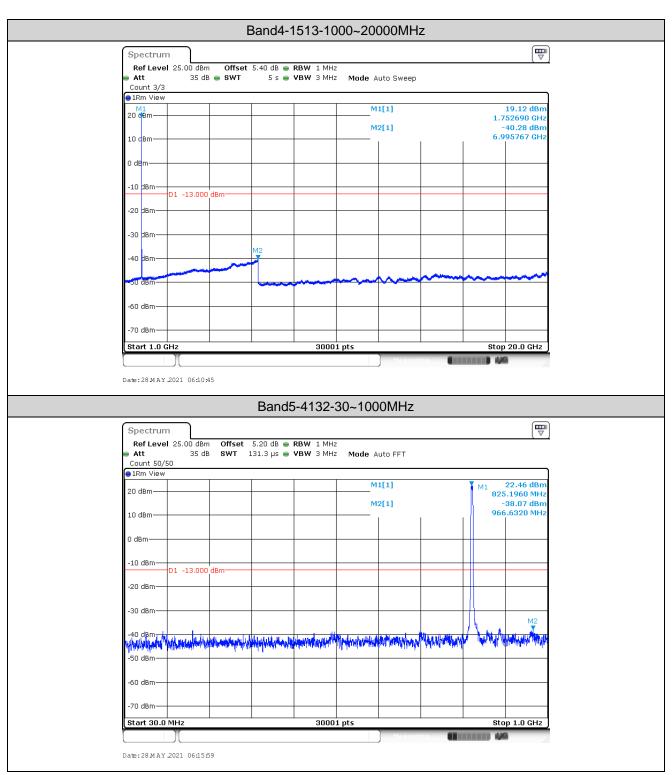
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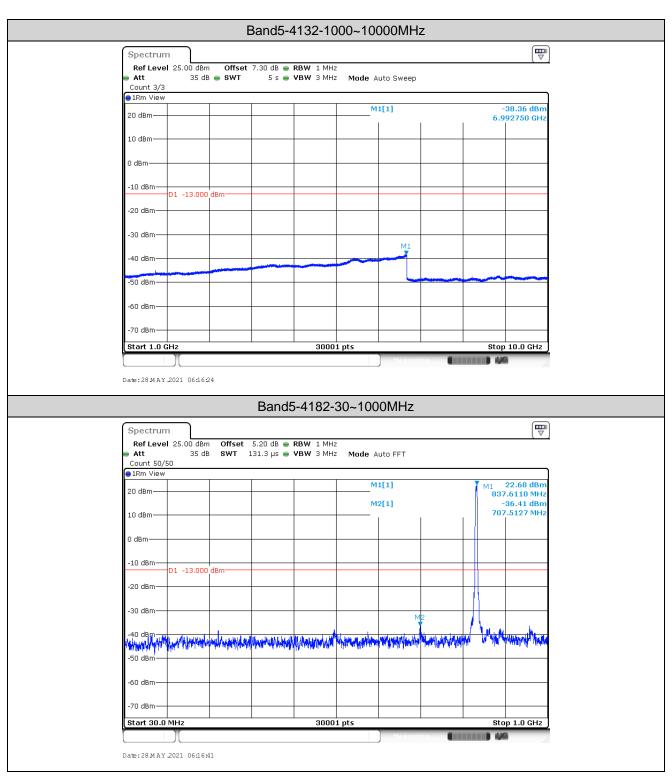
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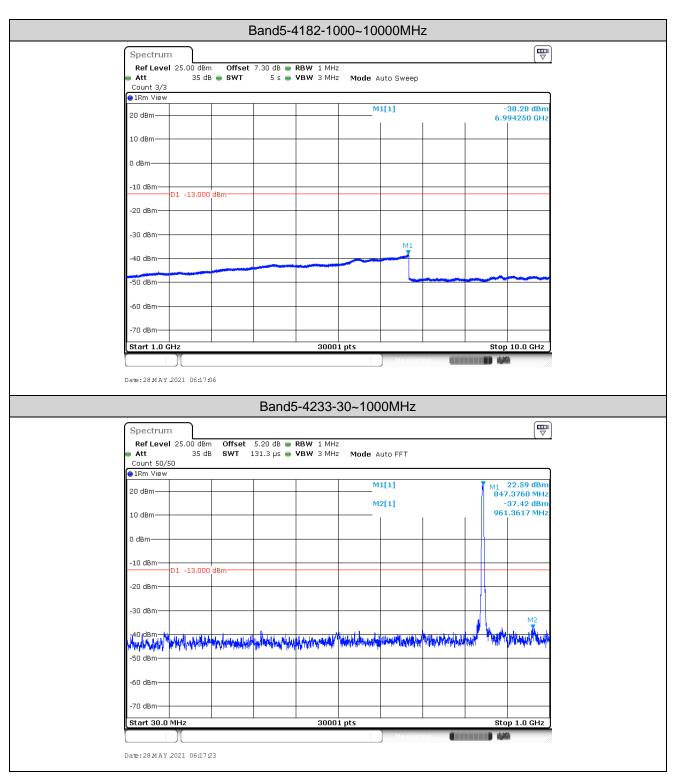
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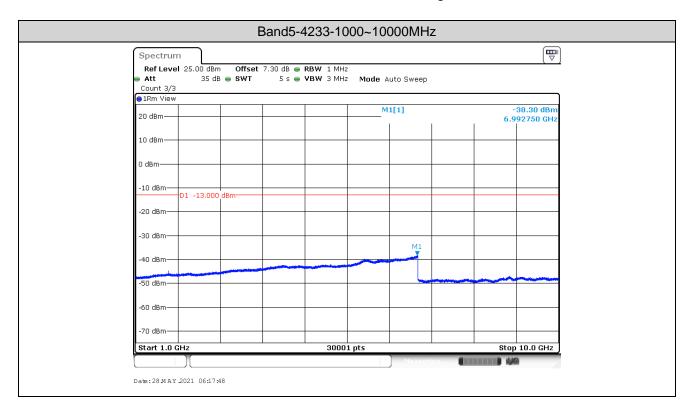
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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA II

7.1.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1083.0104	20.56	-49.63	-25.00	24.63	Horizontal		
2	1702.0878	20.66	-49.34	-25.00	24.34	Horizontal		
3	2985.7482	21.08	-43.67	-25.00	18.67	Horizontal		
4	5697.8849	49.64	-57.17	-25.00	32.17	Horizontal		
5	11218.9109	47.16	-48.56	-25.00	23.56	Horizontal		
6	17993.999	48.22	-45.53	-25.00	20.53	Horizontal		



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7.2.Test Band = WCDMA_II 7.2.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1101.0126	20.80	-49.67	-25.00	24.67	Vertical		
2	1697.5872	20.48	-49.46	-25.00	24.46	Vertical		
3	2994.7493	20.74	-43.88	-25.00	18.88	Vertical		
4	4785.8393	51.07	-59.57	-25.00	34.57	Vertical		
5	8878.7939	47.54	-52.50	-25.00	27.50	Vertical		
6	17989.499	48.31	-45.35	-25.00	20.35	Vertical		



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7.3.Test Band = WCDMA_II
7.3.1. Test Channel = Middle



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7.4.Test Band = WCDMA_II 7.4.1. Test Channel = Middle



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7.5.Test Band = WCDMA_II 7.5.1. Test Channel = High

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1165.0206	20.80	-49.54	-13.00	36.54	Horizontal		
2	2499.4374	21.36	-45.19	-13.00	32.19	Horizontal		
3	2999.2499	20.50	-43.97	-13.00	30.97	Horizontal		
4	3813.7907	57.44	-57.21	-13.00	44.21	Horizontal		
5	7463.4732	49.28	-53.05	-13.00	40.05	Horizontal		
6	17993.249	48.53	-45.21	-13.00	32.21	Horizontal		



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7.6.Test Band = WCDMA_II 7.6.1. Test Channel = High

Susp	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1102.0128	20.96	-49.50	-13.00	36.50	Vertical			
2	1774.8469	28.42	-41.58	-13.00	28.58	Vertical			
3	2932.7416	20.98	-43.74	-13.00	30.74	Vertical			
4	3813.7907	56.22	-58.43	-13.00	45.43	Vertical			
5	9035.5518	47.90	-51.17	-13.00	38.17	Vertical			
6	17991.749	48.12	-45.59	-13.00	32.59	Vertical			



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7.7.Test Band = WCDMA_IV 7.7.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1087.2609	20.69	-49.63	-13.00	36.63	Horizontal		
2	2113.6392	22.15	-46.37	-13.00	33.37	Horizontal		
3	2998.7498	20.90	-43.59	-13.00	30.59	Horizontal		
4	3423.0212	55.27	-60.72	-13.00	47.72	Horizontal		
5	8401.0201	48.88	-52.12	-13.00	39.12	Horizontal		
6	17915.245	47.82	-45.13	-13.00	32.13	Horizontal		



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7.8.Test Band = WCDMA_IV 7.8.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1168.0210	20.75	-49.52	-13.00	36.52	Vertical		
2	2112.3890	22.77	-45.80	-13.00	32.80	Vertical		
3	2987.4984	20.98	-43.78	-13.00	30.78	Vertical		
4	3423.0212	53.71	-62.28	-13.00	49.28	Vertical		
5	7485.2243	49.14	-53.01	-13.00	40.01	Vertical		
6	17988.749	48.10	-45.54	-13.00	32.54	Vertical		



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7.9.Test Band = WCDMA_IV 7.9.1. Test Channel = Middle

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1156.2695	20.80	-49.56	-13.00	36.56	Horizontal		
2	2132.6416	22.53	-45.72	-13.00	32.72	Horizontal		
3	2998.7498	20.71	-43.78	-13.00	30.78	Horizontal		
4	3463.5232	54.89	-60.74	-13.00	47.74	Horizontal		
5	7460.4730	48.95	-53.41	-13.00	40.41	Horizontal		
6	17915.245	47.24	-45.71	-13.00	32.71	Horizontal		



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7.10. Test Band = WCDMA_IV 7.10.1. Test Channel = Middle

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1103.7630	20.54	-49.90	-13.00	36.90	Vertical		
2	2132.1415	22.77	-45.49	-13.00	32.49	Vertical		
3	2989.9988	21.03	-43.74	-13.00	30.74	Vertical		
4	3467.2734	54.28	-61.27	-13.00	48.27	Vertical		
5	7488.2244	48.85	-53.28	-13.00	40.28	Vertical		
6	17976.748	48.29	-45.10	-13.00	32.10	Vertical		



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7.11. Test Band = WCDMA_IV 7.11.1. Test Channel = High

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1151.5189	20.66	-49.56	-13.00	36.56	Horizontal		
2	2434.4293	22.14	-44.92	-13.00	31.92	Horizontal		
3	2997.9998	20.71	-43.80	-13.00	30.80	Horizontal		
4	3506.2753	57.59	-57.31	-13.00	44.31	Horizontal		
5	8405.5203	48.77	-52.24	-13.00	39.24	Horizontal		
6	17912.245	47.53	-45.43	-13.00	32.43	Horizontal		



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7.12. Test Band = WCDMA_IV

7.12.1. Test Channel = High

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1084.2605	20.65	-49.58	-13.00	36.58	Vertical		
2	2152.8941	22.21	-46.03	-13.00	33.03	Vertical		
3	2434.6793	22.94	-44.12	-13.00	31.12	Vertical		
4	3504.0252	56.44	-58.43	-13.00	45.43	Vertical		
5	7473.9737	49.38	-52.86	-13.00	39.86	Vertical		
6	17993.999	48.13	-45.62	-13.00	32.62	Vertical		



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7.13. Test Band = WCDMA_V 7.13.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1168.7711	20.61	-49.65	-13.00	36.65	Horizontal		
2	1651.3314	28.89	-41.65	-13.00	28.65	Horizontal		
3	2947.9935	20.69	-44.02	-13.00	31.02	Horizontal		
4	3959.2980	51.46	-62.32	-13.00	49.32	Horizontal		
5	7476.2238	49.05	-53.18	-13.00	40.18	Horizontal		
6	17984.999	48.51	-45.06	-13.00	32.06	Horizontal		



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7.14. Test Band = WCDMA_V 7.14.1. Test Channel = Low

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1151.7690	20.65	-49.58	-13.00	36.58	Vertical		
2	1654.3318	21.84	-48.56	-13.00	35.56	Vertical		
3	2998.4998	20.64	-43.86	-13.00	30.86	Vertical		
4	3968.2984	51.29	-62.46	-13.00	49.46	Vertical		
5	7469.4735	49.05	-53.23	-13.00	40.23	Vertical		
6	17993.249	48.34	-45.40	-13.00	32.40	Vertical		



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7.15. Test Band = WCDMA_V 7.15.1. Test Channel = Mid

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1078.7598	20.68	-49.51	-13.00	36.51	Horizontal		
2	1674.0843	26.79	-43.43	-13.00	30.43	Horizontal		
3	3000.0000	20.95	-43.50	-13.00	30.50	Horizontal		
4	5002.6001	49.99	-59.40	-13.00	46.40	Horizontal		
5	9013.0507	47.65	-51.32	-13.00	38.32	Horizontal		
6	17994.749	48.57	-45.20	-13.00	32.20	Horizontal		



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7.16. Test Band = WCDMA_V 7.16.1. Test Channel = Mid

Susp	Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1081.0101	20.31	-49.82	-13.00	36.82	Vertical			
2	1674.5843	22.22	-47.98	-13.00	34.98	Vertical			
3	2949.7437	20.85	-43.85	-13.00	30.85	Vertical			
4	4587.0794	50.85	-60.73	-13.00	47.73	Vertical			
5	9500.5750	47.45	-51.21	-13.00	38.21	Vertical			
6	17988.749	48.31	-45.33	-13.00	32.33	Vertical			



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7.17. Test Band = WCDMA_V 7.17.1. Test Channel = High

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1078.2598	20.38	-49.85	-13.00	36.85	Horizontal		
2	1691.5864	25.44	-44.52	-13.00	31.52	Horizontal		
3	2993.2492	21.02	-43.65	-13.00	30.65	Horizontal		
4	4675.5838	50.61	-60.68	-13.00	47.68	Horizontal		
5	9020.5510	48.01	-51.00	-13.00	38.00	Horizontal		
6	17987.999	48.37	-45.26	-13.00	32.26	Horizontal		



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7.18. Test Band = WCDMA V 7.18.1. Test Channel = High

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1080.5101	20.21	-49.91	-13.00	36.91	Vertical			
2	1694.8369	22.74	-47.21	-13.00	34.21	Vertical			
3	2924.7406	21.04	-43.76	-13.00	30.76	Vertical			
4	5011.6006	49.72	-59.79	-13.00	46.79	Vertical			
5	9010.0505	47.59	-51.37	-13.00	38.37	Vertical			
6	17985.749	48.12	-45.46	-13.00	32.46	Vertical			

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

Voltage								
Donal	Observati	Voltage	Temperature	Deviation	Deviation	Limit	Manaliat	
Band	Channel	(Vdč)	(℃)	(Hz)	(ppm)	(ppm)	Verdict	
Band2	9262	VL	NT	2.98	0.001609	±2.5	PASS	
Band2	9262	VN	NT	-1.45	-0.000783	±2.5	PASS	
Band2	9262	VH	NT	0.09	0.000049	±2.5	PASS	
Band2	9400	VL	NT	-4.35	-0.002314	±2.5	PASS	
Band2	9400	VN	NT	-0.40	-0.000213	±2.5	PASS	
Band2	9400	VH	NT	-3.83	-0.002037	±2.5	PASS	
Band2	9538	VL	NT	-10.64	-0.005578	±2.5	PASS	
Band2	9538	VN	NT	-6.13	-0.003213	±2.5	PASS	
Band2	9538	VH	NT	-5.39	-0.002826	±2.5	PASS	
Band4	1312	VL	NT	20.80	0.012147	±2.5	PASS	
Band4	1312	VN	NT	19.41	0.011335	±2.5	PASS	
Band4	1312	VH	NT	8.58	0.005011	±2.5	PASS	
Band4	1413	VL	NT	-0.55	-0.000317	±2.5	PASS	
Band4	1413	VN	NT	-0.87	-0.000502	±2.5	PASS	
Band4	1413	VH	NT	-2.24	-0.001293	±2.5	PASS	
Band4	1513	VL	NT	-14.83	-0.008462	±2.5	PASS	
Band4	1513	VN	NT	-23.35	-0.013323	±2.5	PASS	
Band4	1513	VH	NT	-25.38	-0.014481	±2.5	PASS	
Band5	4132	VL	NT	-3.01	-0.003642	±2.5	PASS	
Band5	4132	VN	NT	1.46	0.001767	±2.5	PASS	
Band5	4132	VH	NT	-0.92	-0.001113	±2.5	PASS	
Band5	4182	VL	NT	-0.69	-0.000825	±2.5	PASS	
Band5	4182	VN	NT	-0.05	-0.000060	±2.5	PASS	
Band5	4182	VH	NT	-2.17	-0.002594	±2.5	PASS	
Band5	4233	VL	NT	-3.54	-0.004181	±2.5	PASS	
Band5	4233	VN	NT	-4.12	-0.004867	±2.5	PASS	
Band5	4233	VH	NT	-0.82	-0.000969	±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	2.91	0.001571	±2.5	PASS
Band2	9262	NV	-20	3.20	0.001727	±2.5	PASS
Band2	9262	NV	-10	1.83	0.000988	±2.5	PASS
Band2	9262	NV	0	4.12	0.002224	±2.5	PASS
Band2	9262	NV	10	-0.73	-0.000394	±2.5	PASS
Band2	9262	NV	20	5.31	0.002867	±2.5	PASS
Band2	9262	NV	30	2.94	0.001587	±2.5	PASS
Band2	9262	NV	40	-0.87	-0.000470	±2.5	PASS
Band2	9262	NV	50	-0.43	-0.000232	±2.5	PASS
Band2	9400	NV	-30	-2.29	-0.001218	±2.5	PASS
Band2	9400	NV	-20	-0.27	-0.000144	±2.5	PASS
Band2	9400	NV	-10	-1.28	-0.000681	±2.5	PASS
Band2	9400	NV	0	-5.34	-0.002840	±2.5	PASS
Band2	9400	NV	10	-3.02	-0.001606	±2.5	PASS
Band2	9400	NV	20	-0.38	-0.000202	±2.5	PASS
Band2	9400	NV	30	-0.37	-0.000197	±2.5	PASS
Band2	9400	NV	40	0.14	0.000074	±2.5	PASS
Band2	9400	NV	50	-0.27	-0.000144	±2.5	PASS
Band2	9538	NV	-30	-7.92	-0.004152	±2.5	PASS
Band2	9538	NV	-20	-6.88	-0.003607	±2.5	PASS
Band2	9538	NV	-10	-7.66	-0.004016	±2.5	PASS
Band2	9538	NV	0	-8.33	-0.004367	±2.5	PASS
Band2	9538	NV	10	-12.92	-0.006773	±2.5	PASS
Band2	9538	NV	20	-4.17	-0.002186	±2.5	PASS
Band2	9538	NV	30	-7.13	-0.003738	±2.5	PASS
Band2	9538	NV	40	-7.95	-0.004168	±2.5	PASS
Band2	9538	NV	50	-11.51	-0.006034	±2.5	PASS
Band4	1312	NV	-30	19.62	0.011458	±2.5	PASS
Band4	1312	NV	-20	22.66	0.013233	±2.5	PASS
Band4	1312	NV	-10	19.27	0.011253	±2.5	PASS
Band4	1312	NV	0	16.19	0.009455	±2.5	PASS
Band4	1312	NV	10	20.42	0.011925	±2.5	PASS
Band4	1312	NV	20	12.95	0.007562	±2.5	PASS



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Band4	1312	NV	30	14.98	0.008748	±2.5	PASS
Band4	1312	NV	40	20.95	0.012234	±2.5	PASS
Band4	1312	NV	50	21.22	0.012392	±2.5	PASS
Band4	1413	NV	-30	-1.42	-0.000820	±2.5	PASS
Band4	1413	NV	-20	0.29	0.000167	±2.5	PASS
Band4	1413	NV	-10	1.13	0.000652	±2.5	PASS
Band4	1413	NV	0	0.92	0.000531	±2.5	PASS
Band4	1413	NV	10	3.31	0.001910	±2.5	PASS
Band4	1413	NV	20	-1.92	-0.001108	±2.5	PASS
Band4	1413	NV	30	-4.32	-0.002493	±2.5	PASS
Band4	1413	NV	40	-6.71	-0.003873	±2.5	PASS
Band4	1413	NV	50	-0.14	-0.000081	±2.5	PASS
Band4	1513	NV	-30	-22.06	-0.012587	±2.5	PASS
Band4	1513	NV	-20	-19.30	-0.011012	±2.5	PASS
Band4	1513	NV	-10	-18.65	-0.010641	±2.5	PASS
Band4	1513	NV	0	-18.17	-0.010367	±2.5	PASS
Band4	1513	NV	10	-14.50	-0.008273	±2.5	PASS
Band4	1513	NV	20	-24.90	-0.014207	±2.5	PASS
Band4	1513	NV	30	-24.17	-0.013791	±2.5	PASS
Band4	1513	NV	40	-21.13	-0.012056	±2.5	PASS
Band4	1513	NV	50	-18.97	-0.010824	±2.5	PASS
Band5	4132	NV	-30	0.73	0.000883	±2.5	PASS
Band5	4132	NV	-20	0.47	0.000569	±2.5	PASS
Band5	4132	NV	-10	-0.87	-0.001053	±2.5	PASS
Band5	4132	NV	0	-0.60	-0.000726	±2.5	PASS
Band5	4132	NV	10	2.78	0.003364	±2.5	PASS
Band5	4132	NV	20	-0.75	-0.000908	±2.5	PASS
Band5	4132	NV	30	-0.18	-0.000218	±2.5	PASS
Band5	4132	NV	40	0.03	0.000036	±2.5	PASS
Band5	4132	NV	50	0.95	0.001150	±2.5	PASS
Band5	4182	NV	-30	-0.73	-0.000873	±2.5	PASS
Band5	4182	NV	-20	-2.40	-0.002869	±2.5	PASS
Band5	4182	NV	-10	-3.68	-0.004400	±2.5	PASS
Band5	4182	NV	0	0.14	0.000167	±2.5	PASS
Band5	4182	NV	10	2.43	0.002905	±2.5	PASS
Band5	4182	NV	20	0.55	0.000658	±2.5	PASS
Band5	4182	NV	30	-1.65	-0.001973	±2.5	PASS



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Band5	4182	NV	40	-1.50	-0.001793	±2.5	PASS
Band5	4182	NV	50	-0.87	-0.001040	±2.5	PASS
Band5	4233	NV	-30	-1.94	-0.002292	±2.5	PASS
Band5	4233	NV	-20	-2.52	-0.002977	±2.5	PASS
Band5	4233	NV	-10	-3.14	-0.003709	±2.5	PASS
Band5	4233	NV	0	-1.94	-0.002292	±2.5	PASS
Band5	4233	NV	10	-5.57	-0.006579	±2.5	PASS
Band5	4233	NV	20	-3.48	-0.004111	±2.5	PASS
Band5	4233	NV	30	-3.98	-0.004701	±2.5	PASS
Band5	4233	NV	40	-7.14	-0.008434	±2.5	PASS
Band5	4233	NV	50	-2.26	-0.002670	±2.5	PASS

The End



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