

APPENDIX REPORT

Project No.	SHT2407056602W	Radio Specification	WCDMA
Test sample No.	YPHT24070566003	Model No.	Q-3588S
Start test date	2024-08-20	Finish date	2024-08-23
Temperature	24.5℃	Humidity	52%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS
G	ERP and EIRP	PASS

AppendixA: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	23.75	33.01	PASS
Band2	9400	23.83	33.01	PASS
Band2	9538	23.61	33.01	PASS
Band4	1312	23.56	30.00	PASS
Band4	1413	25.23	30.00	PASS
Band4	1513	23.82	30.00	PASS
Band5	4132	22.93	38.45	PASS
Band5	4182	22.89	38.45	PASS
Band5	4233	22.76	38.45	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	23.21	33.01	PASS
Band2	9400	1	23.05	33.01	PASS
Band2	9538	1	22.96	33.01	PASS
Band2	9262	2	22.48	33.01	PASS
Band2	9400	2	22.41	33.01	PASS
Band2	9538	2	22.42	33.01	PASS
Band2	9262	3	23.41	33.01	PASS
Band2	9400	3	22.50	33.01	PASS
Band2	9538	3	22.50	33.01	PASS
Band2	9262	4	23.27	33.01	PASS
Band2	9400	4	23.15	33.01	PASS
Band2	9538	4	23.12	33.01	PASS
Band4	1312	1	22.88	30.00	PASS
Band4	1413	1	22.89	30.00	PASS
Band4	1513	1	23.04	30.00	PASS
Band4	1312	2	22.19	30.00	PASS
Band4	1413	2	22.29	30.00	PASS
Band4	1513	2	22.30	30.00	PASS
Band4	1312	3	22.21	30.00	PASS
Band4	1413	3	22.18	30.00	PASS
Band4	1513	3	22.42	30.00	PASS
Band4	1312	4	22.25	30.00	PASS
Band4	1413	4	22.27	30.00	PASS
Band4	1513	4	22.44	30.00	PASS
Band5	4132	1	21.75	38.5	PASS
Band5	4182	1	21.81	38.5	PASS
Band5	4233	1	21.79	38.5	PASS
Band5	4132	2	21.40	38.5	PASS

Band5	4182	2	21.21	38.5	PASS
Band5	4233	2	21.19	38.5	PASS
Band5	4132	3	21.39	38.5	PASS
Band5	4182	3	21.36	38.5	PASS
Band5	4233	3	21.22	38.5	PASS
Band5	4132	4	21.38	38.5	PASS
Band5	4182	4	21.32	38.5	PASS
Band5	4233	4	21.33	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	21.87	33.01	PASS
Band2	9400	1	21.20	33.01	PASS
Band2	9538	1	21.72	33.01	PASS
Band2	9262	2	21.86	33.01	PASS
Band2	9400	2	21.70	33.01	PASS
Band2	9538	2	21.70	33.01	PASS
Band2	9262	3	22.86	33.01	PASS
Band2	9400	3	22.71	33.01	PASS
Band2	9538	3	22.71	33.01	PASS
Band2	9262	4	21.34	33.01	PASS
Band2	9400	4	21.19	33.01	PASS
Band2	9538	4	21.19	33.01	PASS
Band2	9262	5	22.31	33.01	PASS
Band2	9400	5	21.18	33.01	PASS
Band2	9538	5	21.19	33.01	PASS
Band4	1312	1	20.79	30.00	PASS
Band4	1413	1	20.98	30.00	PASS
Band4	1513	1	21.02	30.00	PASS
Band4	1312	2	20.79	30.00	PASS
Band4	1413	2	20.91	30.00	PASS
Band4	1513	2	21.13	30.00	PASS
Band4	1312	3	21.80	30.00	PASS
Band4	1413	3	21.89	30.00	PASS
Band4	1513	3	22.00	30.00	PASS
Band4	1312	4	20.36	30.00	PASS
Band4	1413	4	20.36	30.00	PASS
Band4	1513	4	20.54	30.00	PASS
Band4	1312	5	22.16	30.00	PASS
Band4	1413	5	21.95	30.00	PASS
Band4	1513	5	21.94	30.00	PASS
Band5	4132	1	19.95	38.5	PASS
Band5	4182	1	19.91	38.5	PASS
Band5	4233	1	19.87	38.5	PASS
Band5	4132	2	19.96	38.5	PASS

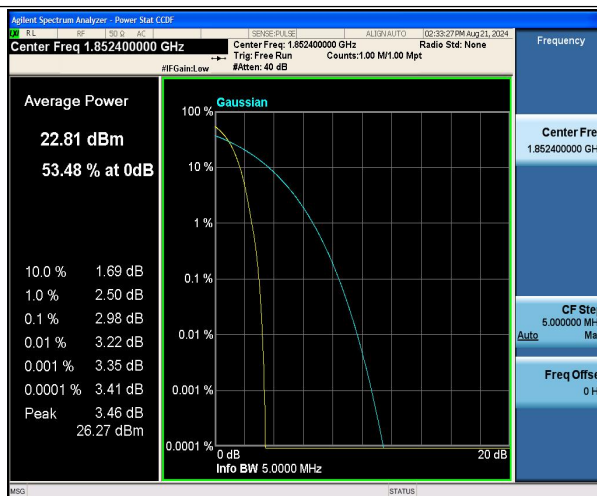
Band5	4182	2	19.95	38.5	PASS
Band5	4233	2	19.83	38.5	PASS
Band5	4132	3	20.90	38.5	PASS
Band5	4182	3	20.94	38.5	PASS
Band5	4233	3	20.88	38.5	PASS
Band5	4132	4	19.44	38.5	PASS
Band5	4182	4	19.42	38.5	PASS
Band5	4233	4	19.54	38.5	PASS
Band5	4132	5	20.98	38.5	PASS
Band5	4182	5	21.07	38.5	PASS
Band5	4233	5	20.91	38.5	PASS

AppendixB:Peak-to-Average Ratio

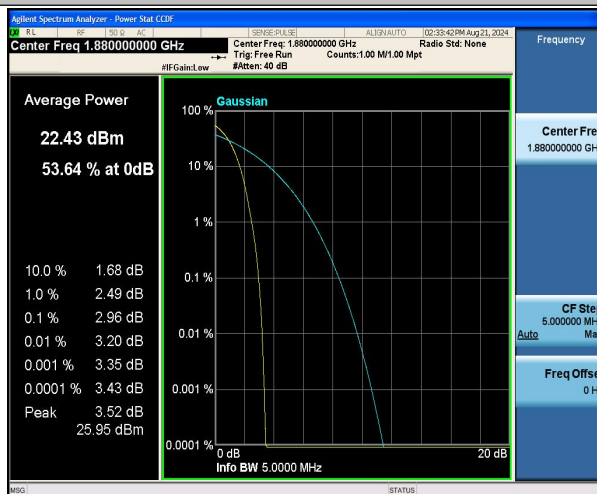
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.98	13	PASS
Band2	9400	2.96	13	PASS
Band2	9538	2.96	13	PASS
Band4	1312	3.13	13	PASS
Band4	1413	3.21	13	PASS
Band4	1513	2.96	13	PASS
Band5	4132	2.93	13	PASS
Band5	4182	3.07	13	PASS
Band5	4233	2.89	13	PASS

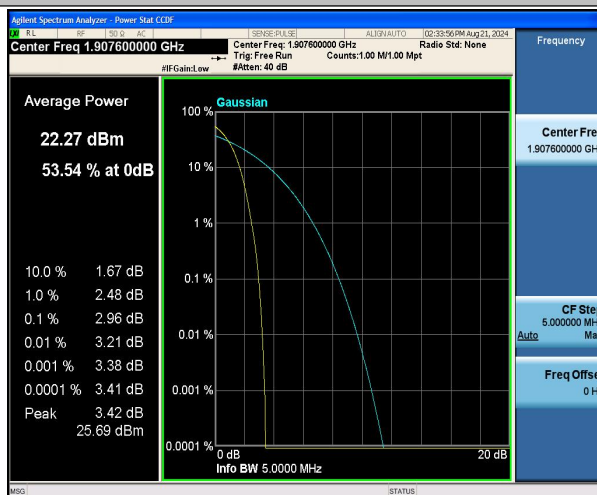
Test Graphs



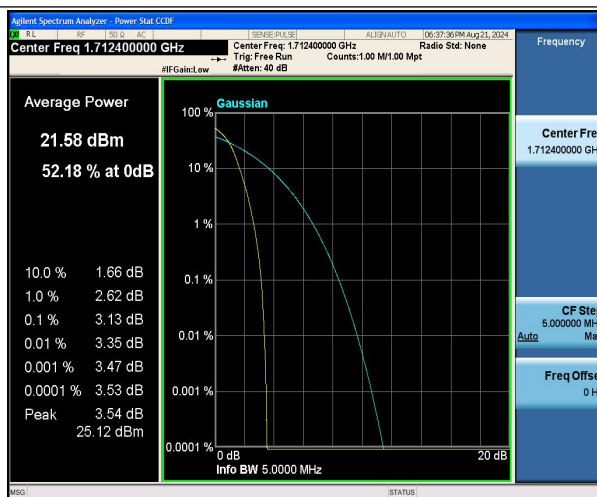
Band2-9262-PASS



Band2-9400-PASS



Band2-9538-PASS



Band4-1312-PASS



Band4-1413-PASS



Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



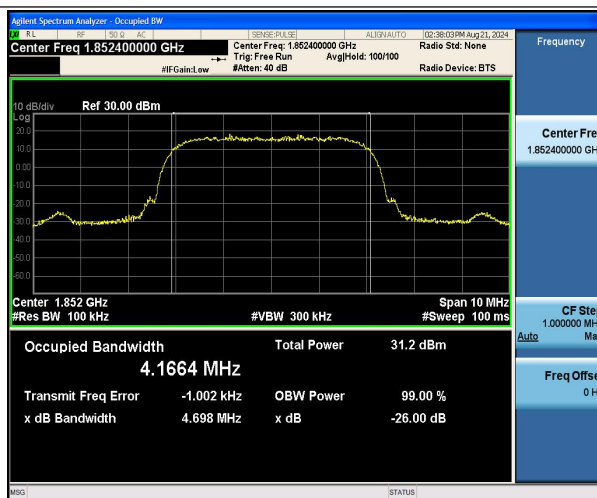
Band5-4233-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

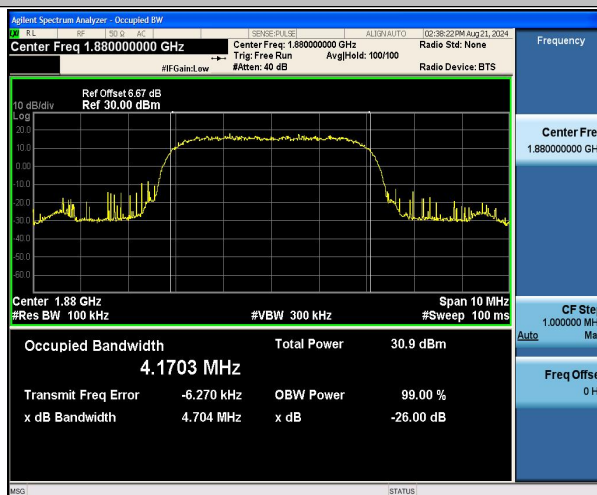
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1664	4.698	---	PASS
Band2	9400	4.1703	4.704	---	PASS
Band2	9538	4.1626	4.707	---	PASS
Band4	1312	4.1740	4.702	---	PASS
Band4	1413	4.1707	4.701	---	PASS
Band4	1513	4.1771	4.698	---	PASS
Band5	4132	4.1714	4.710	---	PASS
Band5	4182	4.1636	4.697	---	PASS
Band5	4233	4.1717	4.711	---	PASS

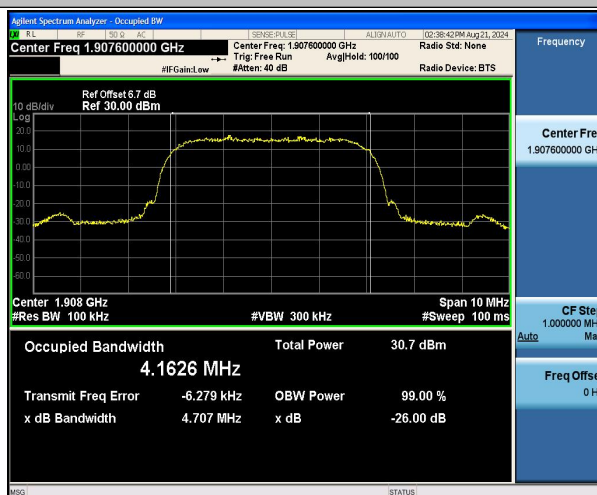
Test Graphs



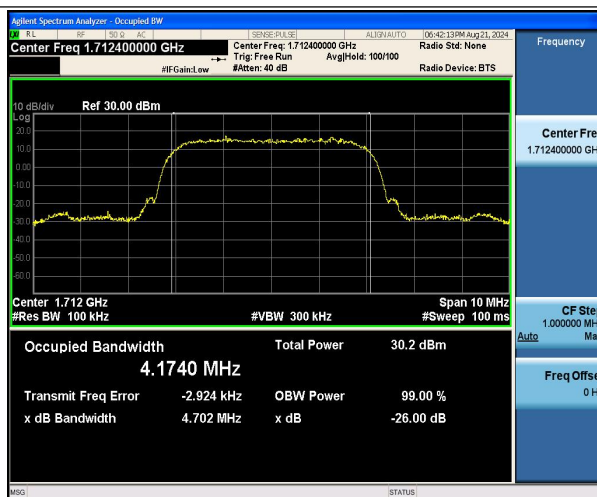
Band2-9262-PASS



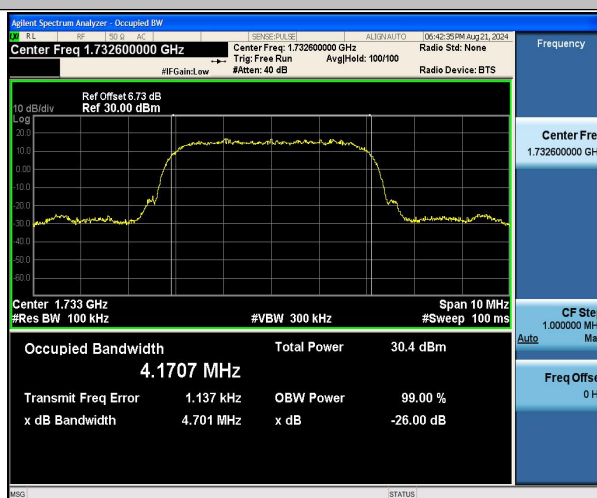
Band2-9400-PASS



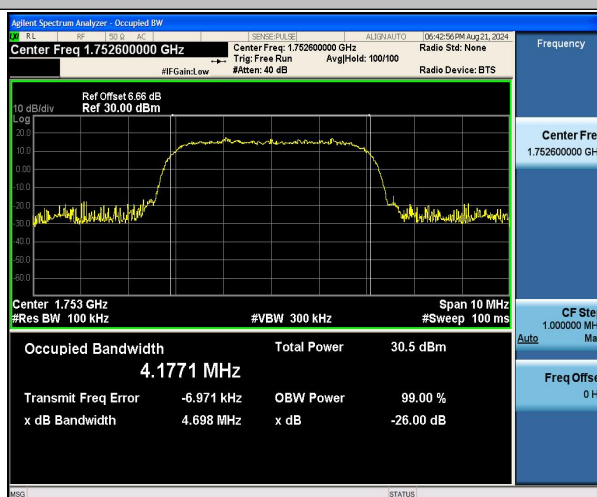
Band2-9538-PASS



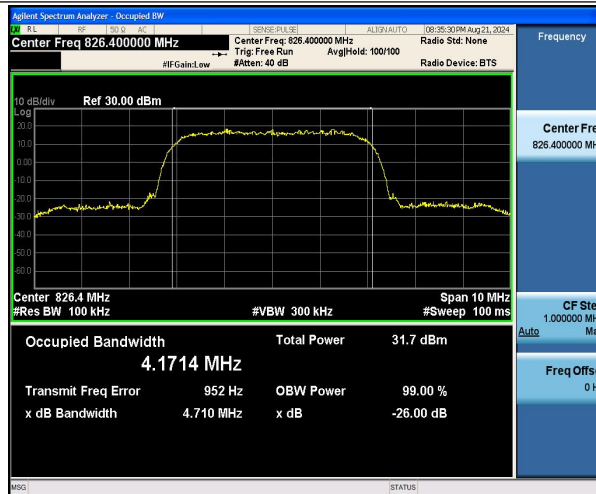
Band4-1312-PASS



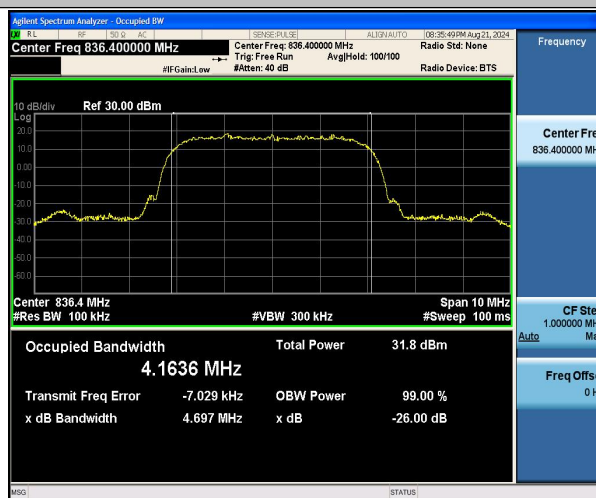
Band4-1413-PASS



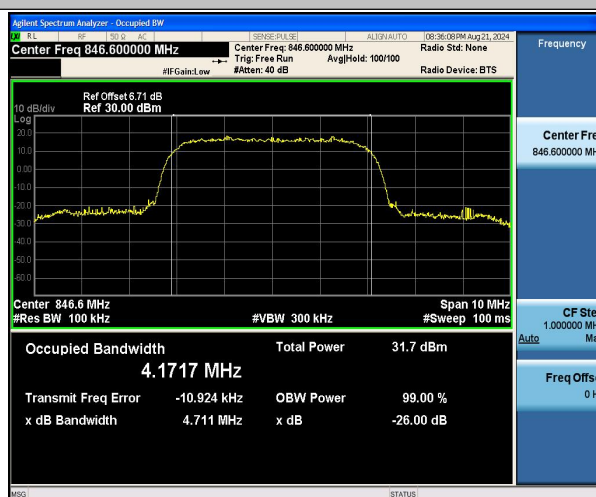
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



Band5-4233-PASS

AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.87	-28.90	-13	PASS
Band2	9538	1910.10	-30.84	-13	PASS
Band4	1312	1709.89	-28.47	-13	PASS
Band4	1513	1755.14	-29.53	-13	PASS
Band5	4132	824.00	-27.76	-13	PASS
Band5	4233	849.00	-28.80	-13	PASS

Test Graphs





Band4-1513-PASS



Band5-4132-PASS



Band5-4233-PASS

AppendixE:Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	30~1000MHz	910.28	-48.46	-13	PASS
Band2	9262	1000~20000MHz	16471.23	-37.64	-13	PASS
Band2	9400	30~1000MHz	952.96	-48.46	-13	PASS
Band2	9400	1000~20000MHz	18917.48	-37.50	-13	PASS
Band2	9538	30~1000MHz	911.25	-48.49	-13	PASS
Band2	9538	1000~20000MHz	19036.7	-37.27	-13	PASS
Band4	1312	30~1000MHz	912.7	-48.53	-13	PASS
Band4	1312	1000~20000MHz	18971.15	-37.57	-13	PASS
Band4	1413	30~1000MHz	913.67	-48.47	-13	PASS
Band4	1413	1000~20000MHz	18894.2	-37.30	-13	PASS
Band4	1513	30~1000MHz	944.23	-48.56	-13	PASS
Band4	1513	1000~20000MHz	19014.38	-37.65	-13	PASS
Band5	4132	30~1000MHz	959.75	-58.09	-13	PASS
Band5	4132	1000~10000MHz	5777.2	-44.85	-13	PASS
Band5	4182	30~1000MHz	974.78	-57.87	-13	PASS
Band5	4182	1000~10000MHz	5773.6	-44.76	-13	PASS
Band5	4233	30~1000MHz	952.96	-58.15	-13	PASS
Band5	4233	1000~10000MHz	5796.1	-44.94	-13	PASS

Test Graphs



Band2-9262-30~1000MHz-PASS



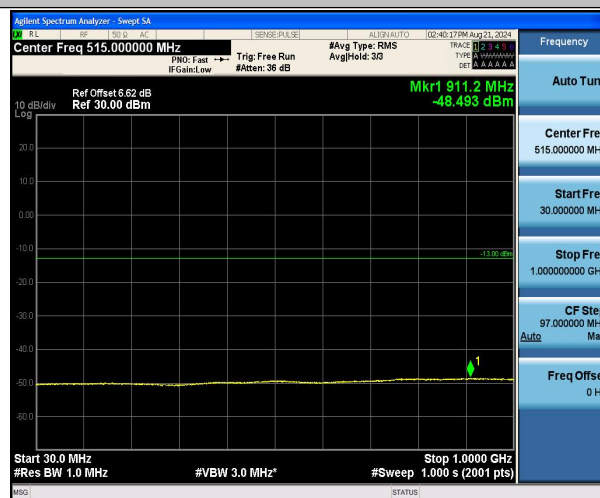
Band2-9262-1000~20000MHz-PASS



Band2-9400-30~1000MHz-PASS



Band2-9400-1000~20000MHz-PASS



Band2-9538-30~1000MHz-PASS



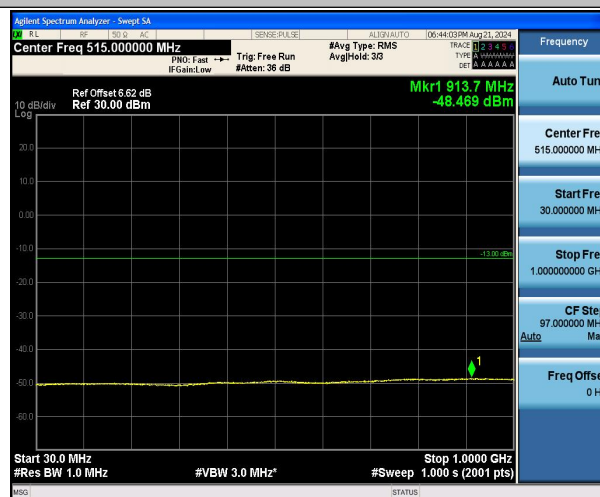
Band2-9538-1000~20000MHz-PASS



Band4-1312-30~1000MHz-PASS



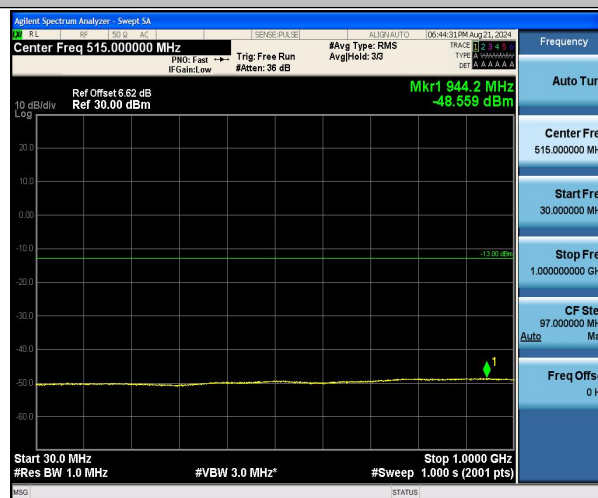
Band4-1312-1000~20000MHz-PASS



Band4-1413-30~1000MHz-PASS



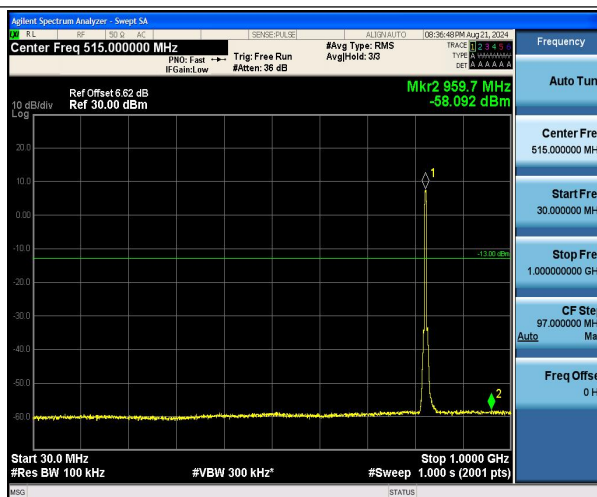
Band4-1413-1000~20000MHz-PASS



Band4-1513-30~1000MHz-PASS



Band4-1513-1000~20000MHz-PASS



Band5-4132-30~1000MHz-PASS



Band5-4132-1000~10000MHz-PASS



Band5-4182-30~1000MHz-PASS



Band5-4182-1000~10000MHz-PASS



Band5-4233-30~1000MHz-PASS



Band5-4233-1000~10000MHz-PASS

AppendixF:Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VN	NT	-9.21	-0.004972	±2.5	PASS
Band2	9262	VL	NT	-13.14	-0.007094	±2.5	PASS
Band2	9262	VH	NT	-11.97	-0.006462	±2.5	PASS
Band2	9400	VN	NT	-9.39	-0.004995	±2.5	PASS
Band2	9400	VL	NT	-9.70	-0.005160	±2.5	PASS
Band2	9400	VH	NT	-12.14	-0.006457	±2.5	PASS
Band2	9538	VN	NT	-13.05	-0.006841	±2.5	PASS
Band2	9538	VL	NT	-10.64	-0.005578	±2.5	PASS
Band2	9538	VH	NT	-13.74	-0.007203	±2.5	PASS
Band4	1312	VN	NT	-14.72	-0.008596	±2.5	PASS
Band4	1312	VL	NT	-14.49	-0.008462	±2.5	PASS
Band4	1312	VH	NT	-15.05	-0.008789	±2.5	PASS
Band4	1413	VN	NT	-10.49	-0.006054	±2.5	PASS
Band4	1413	VL	NT	-12.21	-0.007047	±2.5	PASS
Band4	1413	VH	NT	-17.23	-0.009945	±2.5	PASS
Band4	1513	VN	NT	-12.59	-0.007184	±2.5	PASS
Band4	1513	VL	NT	-7.70	-0.004393	±2.5	PASS
Band4	1513	VH	NT	-10.89	-0.006214	±2.5	PASS
Band5	4132	VN	NT	-9.72	-0.011762	±2.5	PASS
Band5	4132	VL	NT	-9.28	-0.011229	±2.5	PASS
Band5	4132	VH	NT	-9.71	-0.011750	±2.5	PASS
Band5	4182	VN	NT	-6.82	-0.008154	±2.5	PASS
Band5	4182	VL	NT	-11.65	-0.013929	±2.5	PASS
Band5	4182	VH	NT	-7.10	-0.008489	±2.5	PASS
Band5	4233	VN	NT	-12.91	-0.015249	±2.5	PASS
Band5	4233	VL	NT	-11.83	-0.013974	±2.5	PASS
Band5	4233	VH	NT	-8.85	-0.010454	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	-17.62	-0.009512	±2.5	PASS
Band2	9262	NV	-20	-16.66	-0.008994	±2.5	PASS
Band2	9262	NV	-10	-13.46	-0.007266	±2.5	PASS

Band2	9262	NV	0	-13.43	-0.007250	±2.5	PASS
Band2	9262	NV	10	-10.58	-0.005712	±2.5	PASS
Band2	9262	NV	20	-14.33	-0.007736	±2.5	PASS
Band2	9262	NV	30	-18.35	-0.009906	±2.5	PASS
Band2	9262	NV	40	-12.79	-0.006905	±2.5	PASS
Band2	9262	NV	50	-13.75	-0.007423	±2.5	PASS
Band2	9400	NV	-30	-16.24	-0.008638	±2.5	PASS
Band2	9400	NV	-20	-17.22	-0.009160	±2.5	PASS
Band2	9400	NV	-10	-11.50	-0.006117	±2.5	PASS
Band2	9400	NV	0	-13.16	-0.007000	±2.5	PASS
Band2	9400	NV	10	-18.19	-0.009676	±2.5	PASS
Band2	9400	NV	20	-9.91	-0.005271	±2.5	PASS
Band2	9400	NV	30	-14.18	-0.007543	±2.5	PASS
Band2	9400	NV	40	-10.69	-0.005686	±2.5	PASS
Band2	9400	NV	50	-14.40	-0.007660	±2.5	PASS
Band2	9538	NV	-30	-13.10	-0.006867	±2.5	PASS
Band2	9538	NV	-20	-13.53	-0.007093	±2.5	PASS
Band2	9538	NV	-10	-14.51	-0.007606	±2.5	PASS
Band2	9538	NV	0	-14.23	-0.007460	±2.5	PASS
Band2	9538	NV	10	-6.79	-0.003559	±2.5	PASS
Band2	9538	NV	20	-10.24	-0.005368	±2.5	PASS
Band2	9538	NV	30	-11.17	-0.005856	±2.5	PASS
Band2	9538	NV	40	-12.70	-0.006658	±2.5	PASS
Band2	9538	NV	50	-13.28	-0.006962	±2.5	PASS
Band4	1312	NV	-30	-12.17	-0.007107	±2.5	PASS
Band4	1312	NV	-20	-13.34	-0.007790	±2.5	PASS
Band4	1312	NV	-10	-15.54	-0.009075	±2.5	PASS
Band4	1312	NV	0	-10.06	-0.005875	±2.5	PASS
Band4	1312	NV	10	-15.24	-0.008900	±2.5	PASS
Band4	1312	NV	20	-11.57	-0.006757	±2.5	PASS
Band4	1312	NV	30	-15.01	-0.008765	±2.5	PASS
Band4	1312	NV	40	-15.81	-0.009233	±2.5	PASS
Band4	1312	NV	50	-14.41	-0.008415	±2.5	PASS
Band4	1413	NV	-30	-9.72	-0.005610	±2.5	PASS
Band4	1413	NV	-20	-9.24	-0.005333	±2.5	PASS
Band4	1413	NV	-10	-15.94	-0.009200	±2.5	PASS
Band4	1413	NV	0	-15.39	-0.008883	±2.5	PASS
Band4	1413	NV	10	-12.99	-0.007497	±2.5	PASS
Band4	1413	NV	20	-10.07	-0.005812	±2.5	PASS
Band4	1413	NV	30	-14.33	-0.008271	±2.5	PASS
Band4	1413	NV	40	-13.86	-0.008000	±2.5	PASS
Band4	1413	NV	50	-10.09	-0.005824	±2.5	PASS

Band4	1513	NV	-30	-8.73	-0.004981	±2.5	PASS
Band4	1513	NV	-20	-10.31	-0.005883	±2.5	PASS
Band4	1513	NV	-10	-5.80	-0.003309	±2.5	PASS
Band4	1513	NV	0	-10.89	-0.006214	±2.5	PASS
Band4	1513	NV	10	-7.97	-0.004548	±2.5	PASS
Band4	1513	NV	20	-7.50	-0.004279	±2.5	PASS
Band4	1513	NV	30	-5.66	-0.003229	±2.5	PASS
Band4	1513	NV	40	-5.82	-0.003321	±2.5	PASS
Band4	1513	NV	50	-4.96	-0.002830	±2.5	PASS
Band5	4132	NV	-30	-9.23	-0.011169	±2.5	PASS
Band5	4132	NV	-20	-8.60	-0.010407	±2.5	PASS
Band5	4132	NV	-10	-10.29	-0.012452	±2.5	PASS
Band5	4132	NV	0	-9.06	-0.010963	±2.5	PASS
Band5	4132	NV	10	-8.62	-0.010431	±2.5	PASS
Band5	4132	NV	20	-8.38	-0.010140	±2.5	PASS
Band5	4132	NV	30	-13.30	-0.016094	±2.5	PASS
Band5	4132	NV	40	-13.20	-0.015973	±2.5	PASS
Band5	4132	NV	50	-11.08	-0.013408	±2.5	PASS
Band5	4182	NV	-30	-14.68	-0.017551	±2.5	PASS
Band5	4182	NV	-20	-12.21	-0.014598	±2.5	PASS
Band5	4182	NV	-10	-12.87	-0.015387	±2.5	PASS
Band5	4182	NV	0	-12.22	-0.014610	±2.5	PASS
Band5	4182	NV	10	-10.06	-0.012028	±2.5	PASS
Band5	4182	NV	20	-10.32	-0.012339	±2.5	PASS
Band5	4182	NV	30	-14.48	-0.017312	±2.5	PASS
Band5	4182	NV	40	-8.58	-0.010258	±2.5	PASS
Band5	4182	NV	50	-11.36	-0.013582	±2.5	PASS
Band5	4233	NV	-30	-4.34	-0.005126	±2.5	PASS
Band5	4233	NV	-20	-11.37	-0.013430	±2.5	PASS
Band5	4233	NV	-10	-8.28	-0.009780	±2.5	PASS
Band5	4233	NV	0	-12.60	-0.014883	±2.5	PASS
Band5	4233	NV	10	-6.75	-0.007973	±2.5	PASS
Band5	4233	NV	20	-11.48	-0.013560	±2.5	PASS
Band5	4233	NV	30	-4.41	-0.005209	±2.5	PASS
Band5	4233	NV	40	-8.80	-0.010395	±2.5	PASS
Band5	4233	NV	50	-12.30	-0.014529	±2.5	PASS

8.7 Appendix G: ERP and EIRP

Test Result

FCC

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
Band II	WCDMA	23.83	0.00	23.83	0.2415	2	PASS
	HSDPA	23.41	0.00	23.41	0.2193	2	PASS
	HSUPA	22.86	0.00	22.86	0.1932	2	PASS
Band IV	WCDMA	23.83	0.00	23.83	0.2415	1	PASS
	HSDPA	22.31	0.00	22.31	0.1702	1	PASS
	HSUPA	22.93	0.00	20.78	0.1197	1	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
Band V	WCDMA	22.93	0.00	20.78	0.1197	7	PASS
	HSDPA	21.81	0.00	19.66	0.0925	7	PASS
	HSUPA	21.07	0.00	18.92	0.0780	7	PASS

-----End of the Report -----