

APPENDIX REPORT

Project No.	SHT2106117007EW	Radio Specification	WCDMA
Test sample No.	YPHT21061170008	Model No.	C6100
Start test date	2021-10-23	Finish date	2021-10-23
Temperature	24.8° C	Humidity	32%
Test Engineer	Jiongsheng.Feng	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

8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	22.82	33	PASS
Band II	9400	22.90	33	PASS
Band II	9538	23.01	33	PASS
Band V	4132	22.34	38.5	PASS
Band V	4182	22.35	38.5	PASS
Band V	4233	22.25	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	21.83	33	PASS
Band II	9262	HSDPA_Sub2	21.29	33	PASS
Band II	9262	HSDPA_Sub3	21.33	33	PASS
Band II	9262	HSDPA_Sub4	21.30	33	PASS
Band II	9400	HSDPA_Sub1	21.92	33	PASS
Band II	9400	HSDPA_Sub2	21.36	33	PASS
Band II	9400	HSDPA_Sub3	21.44	33	PASS
Band II	9400	HSDPA_Sub4	21.37	33	PASS
Band II	9538	HSDPA_Sub1	22.05	33	PASS
Band II	9538	HSDPA_Sub2	21.52	33	PASS
Band II	9538	HSDPA_Sub3	21.54	33	PASS
Band II	9538	HSDPA_Sub4	21.52	33	PASS
Band V	4132	HSDPA_Sub1	21.41	38.5	PASS
Band V	4132	HSDPA_Sub2	20.91	38.5	PASS
Band V	4132	HSDPA_Sub3	20.91	38.5	PASS
Band V	4132	HSDPA_Sub4	20.92	38.5	PASS
Band V	4182	HSDPA_Sub1	21.43	38.5	PASS
Band V	4182	HSDPA_Sub2	20.88	38.5	PASS
Band V	4182	HSDPA_Sub3	20.91	38.5	PASS
Band V	4182	HSDPA_Sub4	20.88	38.5	PASS
Band V	4233	HSDPA_Sub1	21.39	38.5	PASS
Band V	4233	HSDPA_Sub2	20.90	38.5	PASS
Band V	4233	HSDPA_Sub3	20.88	38.5	PASS
Band V	4233	HSDPA_Sub4	20.86	38.5	PASS

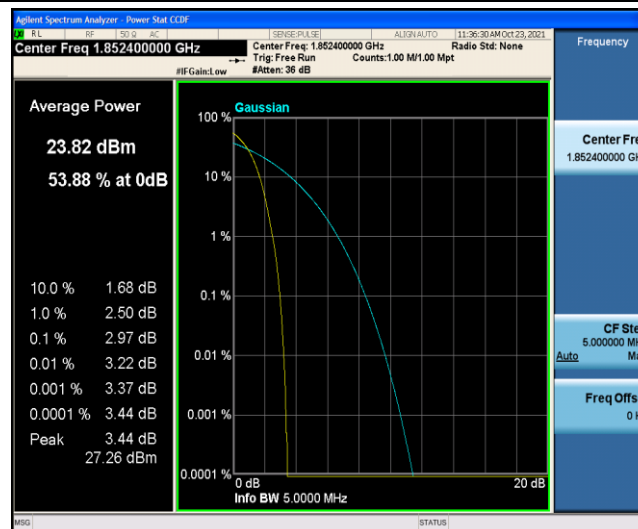
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	19.78	33	PASS
Band II	9262	HSUPA_Sub2	20.28	33	PASS
Band II	9262	HSUPA_Sub3	20.85	33	PASS
Band II	9262	HSUPA_Sub4	19.85	33	PASS
Band II	9262	HSUPA_Sub5	21.82	33	PASS
Band II	9400	HSUPA_Sub1	19.88	33	PASS
Band II	9400	HSUPA_Sub2	20.36	33	PASS
Band II	9400	HSUPA_Sub3	20.84	33	PASS
Band II	9400	HSUPA_Sub4	19.88	33	PASS
Band II	9400	HSUPA_Sub5	21.90	33	PASS
Band II	9538	HSUPA_Sub1	20.05	33	PASS
Band II	9538	HSUPA_Sub2	20.54	33	PASS
Band II	9538	HSUPA_Sub3	21.07	33	PASS
Band II	9538	HSUPA_Sub4	20.02	33	PASS
Band II	9538	HSUPA_Sub5	22.03	33	PASS
Band V	4132	HSUPA_Sub1	19.43	38.5	PASS
Band V	4132	HSUPA_Sub2	19.87	38.5	PASS
Band V	4132	HSUPA_Sub3	20.34	38.5	PASS
Band V	4132	HSUPA_Sub4	19.39	38.5	PASS
Band V	4132	HSUPA_Sub5	21.43	38.5	PASS
Band V	4182	HSUPA_Sub1	19.41	38.5	PASS
Band V	4182	HSUPA_Sub2	19.77	38.5	PASS
Band V	4182	HSUPA_Sub3	20.35	38.5	PASS
Band V	4182	HSUPA_Sub4	19.43	38.5	PASS
Band V	4182	HSUPA_Sub5	21.40	38.5	PASS
Band V	4233	HSUPA_Sub1	19.38	38.5	PASS
Band V	4233	HSUPA_Sub2	19.83	38.5	PASS
Band V	4233	HSUPA_Sub3	20.34	38.5	PASS
Band V	4233	HSUPA_Sub4	19.44	38.5	PASS
Band V	4233	HSUPA_Sub5	21.43	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

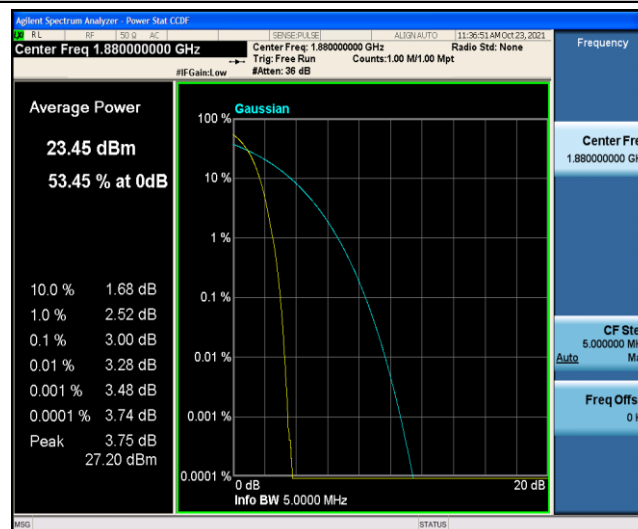
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.97	13	PASS
Band II	9400	3.00	13	PASS
Band II	9538	2.97	13	PASS
Band V	4132	3.01	13	PASS
Band V	4182	3.01	13	PASS
Band V	4233	2.84	13	PASS

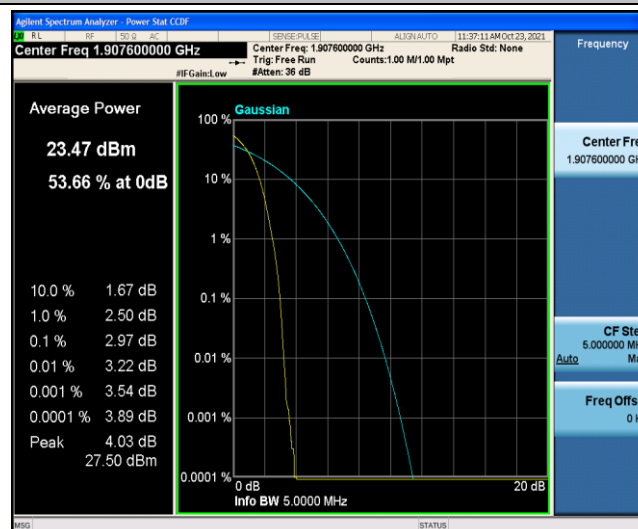
Test Graphs



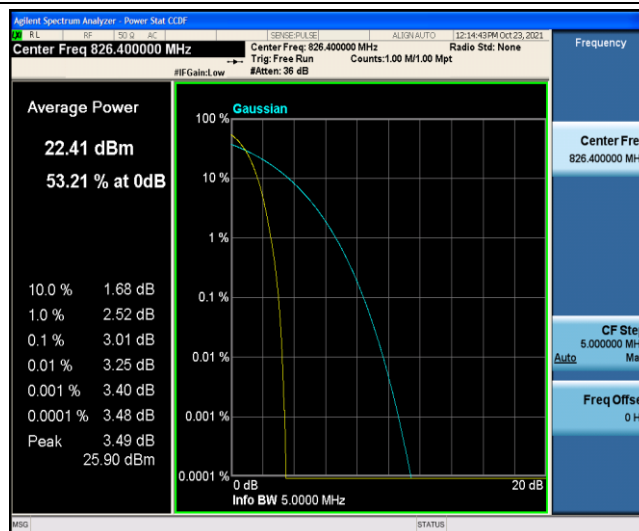
Band II_9262



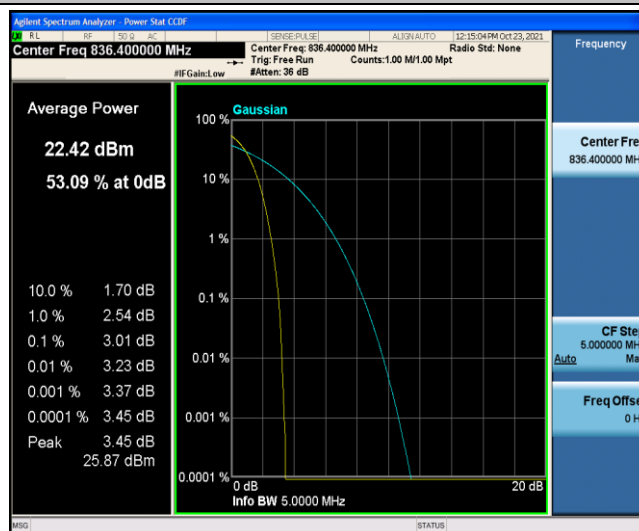
Band II_9400



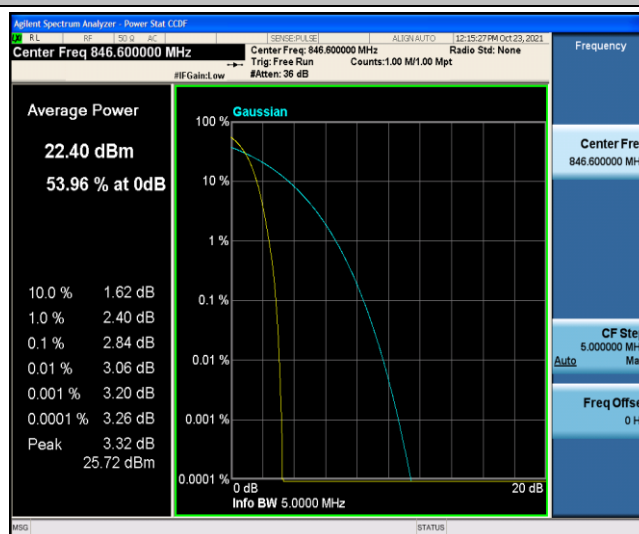
Band II_9538



Band V_4132



Band V_4182



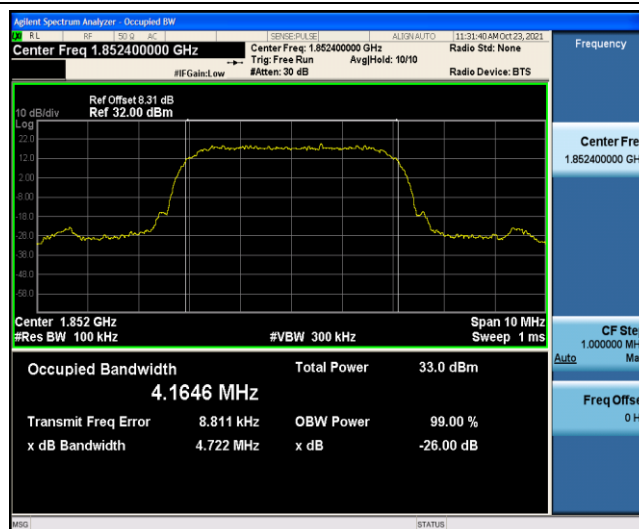
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

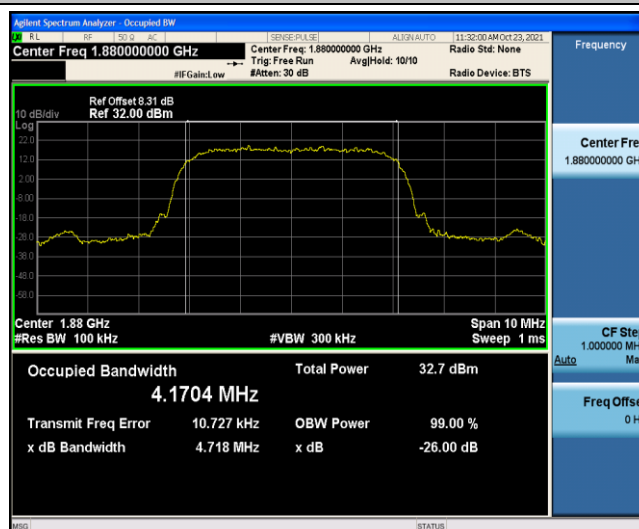
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4164.6	4722	---	PASS
Band II	9400	4170.4	4718	---	PASS
Band II	9538	4176.3	4718	---	PASS
Band V	4132	4180.2	4725	---	PASS
Band V	4182	4183.6	4722	---	PASS
Band V	4233	4166.9	4721	---	PASS

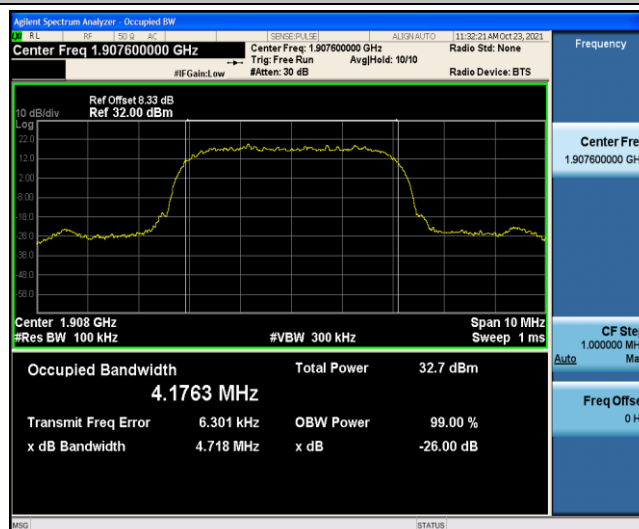
Test Graphs



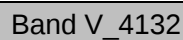
Band II_9262



Band II_9400



Band II_9538

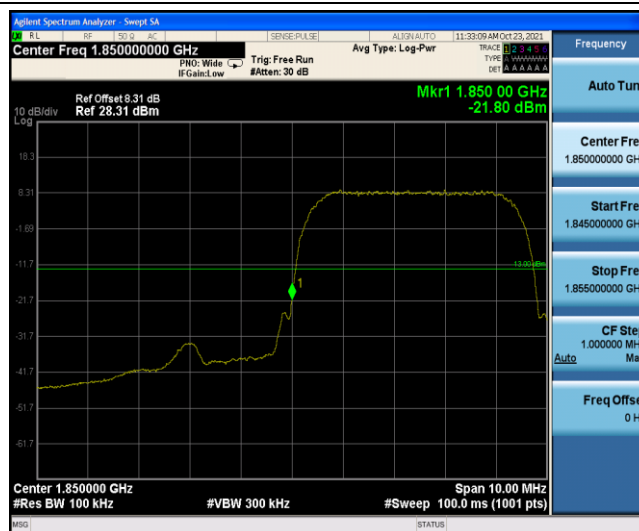


8.4 Appendix D: Band Edge

Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-21.80	-13	PASS
Band II	9538	-21.36	-13	PASS
Band V	4132	-23.83	-13	PASS
Band V	4233	-21.05	-13	PASS

Test Graphs



Band II_9262



Band II_9538



Band V_4132



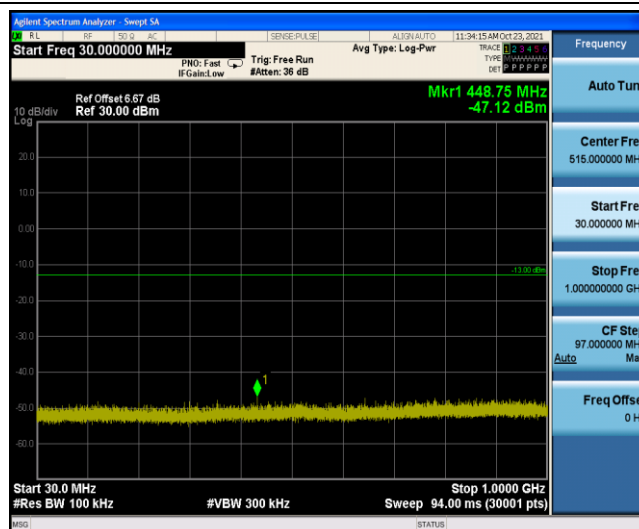
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

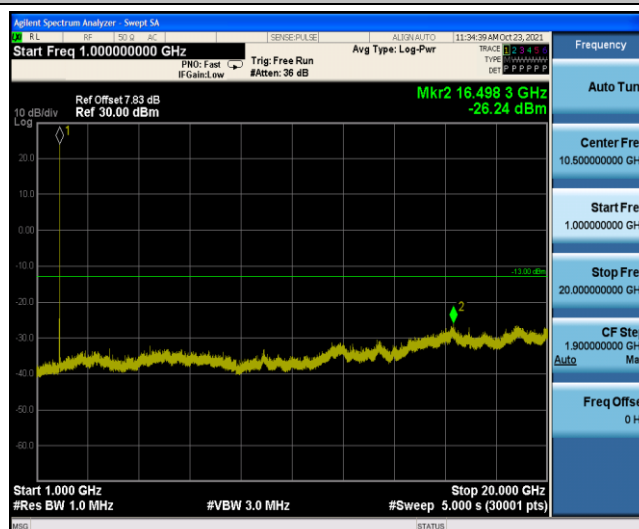
Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-47.12	-13	PASS
Band II	9262	1000~20000	-26.24	-13	PASS
Band II	9400	30~1000	-47.21	-13	PASS
Band II	9400	1000~20000	-25.45	-13	PASS
Band II	9538	30~1000	-47.00	-13	PASS
Band II	9538	1000~20000	-25.02	-13	PASS
Band V	4132	30~1000	-47.10	-13	PASS
Band V	4132	1000~10000	-32.67	-13	PASS
Band V	4182	30~1000	-46.78	-13	PASS
Band V	4182	1000~10000	-32.69	-13	PASS
Band V	4233	30~1000	-46.35	-13	PASS
Band V	4233	1000~10000	-32.49	-13	PASS

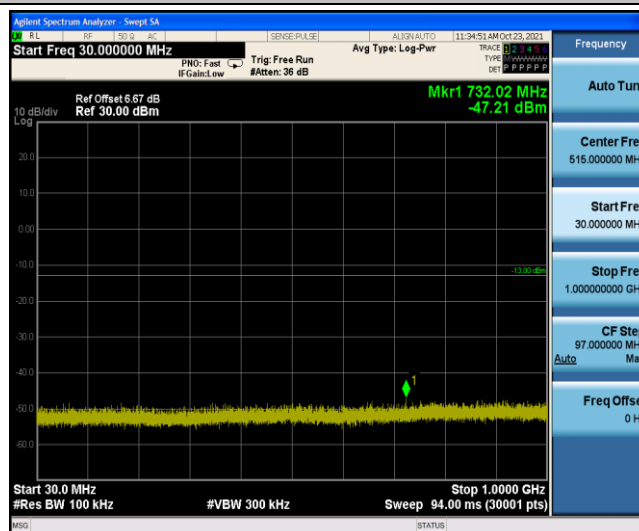
Test Graphs



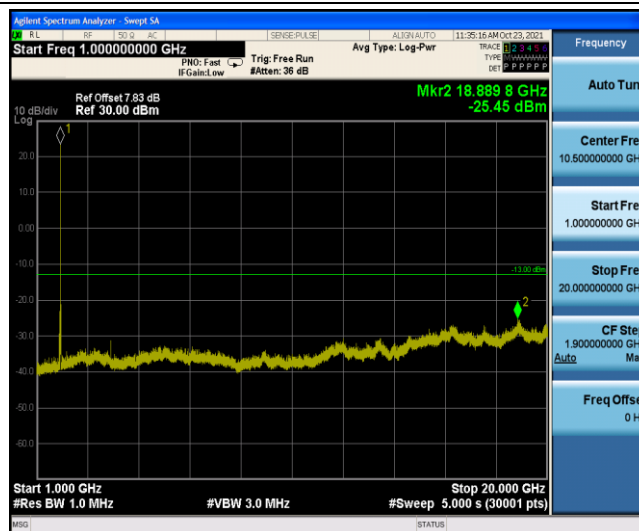
Band II_9262



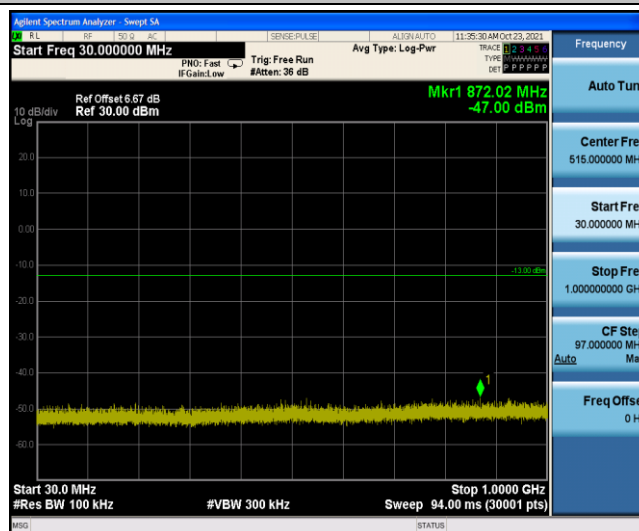
Band II_9262



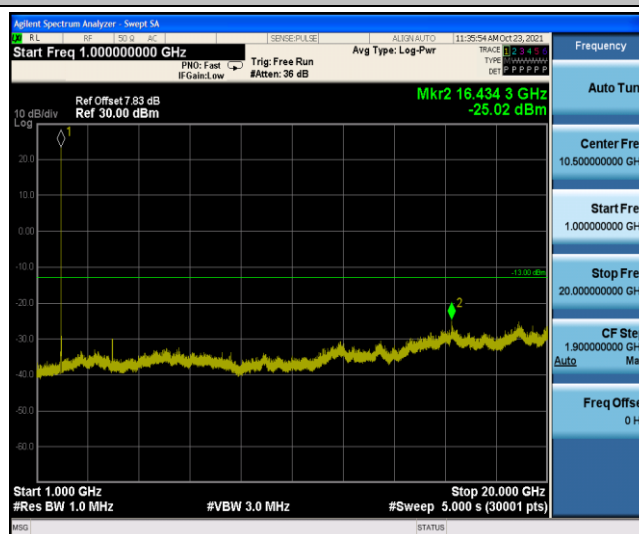
Band II_9400



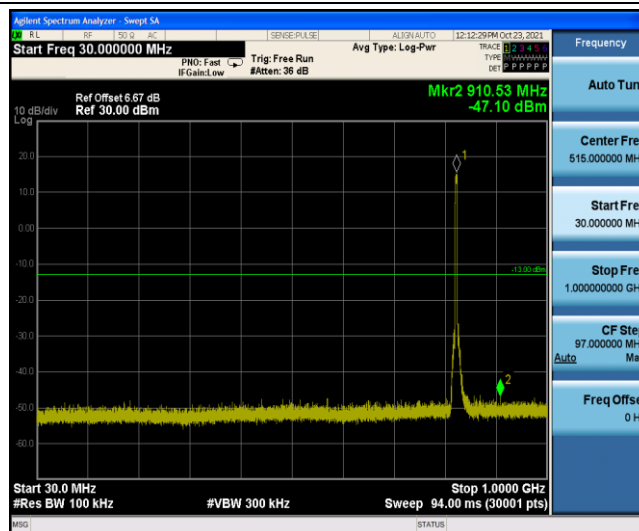
Band II_9400



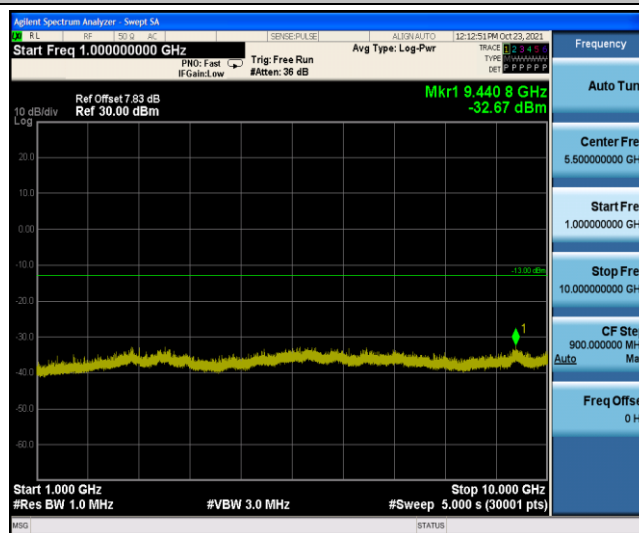
Band II_9538



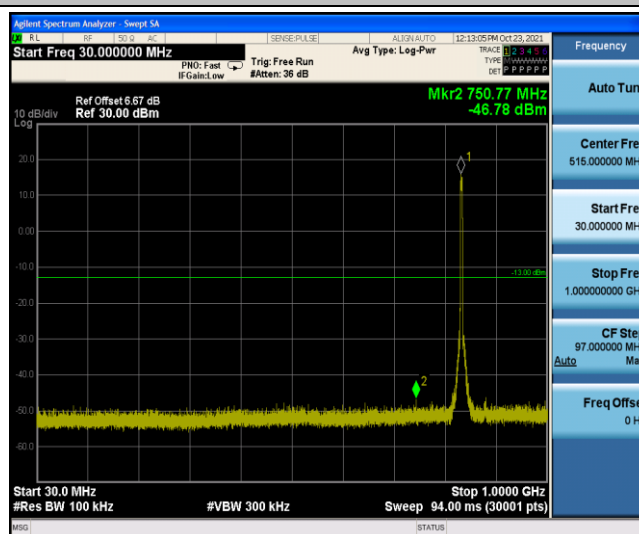
Band II_9538



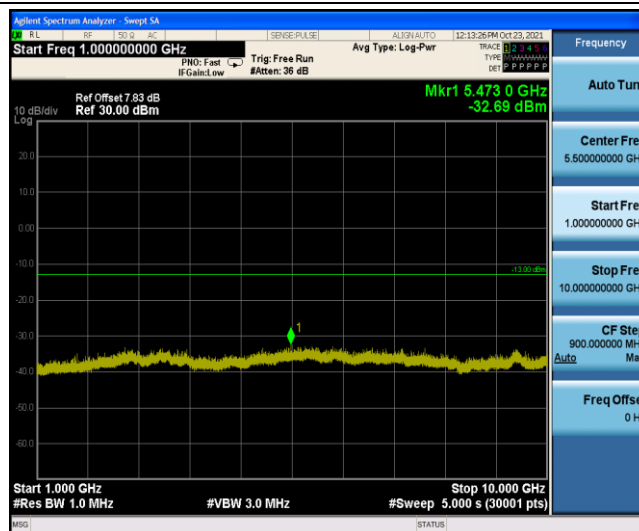
Band V_4132



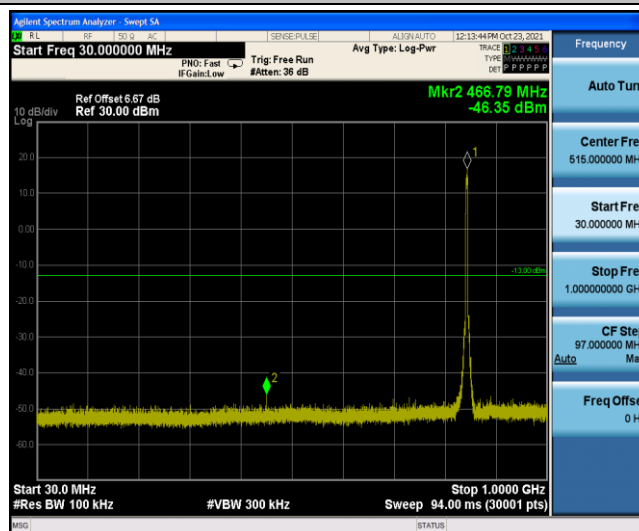
Band V_4132



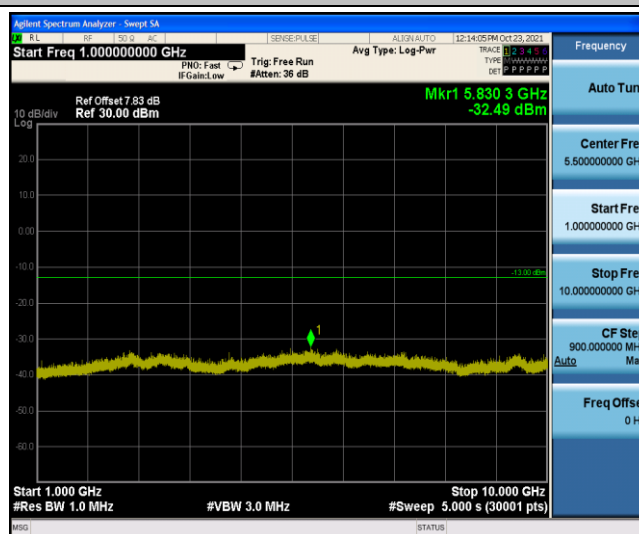
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-4.02	-0.002170	2.5	PASS
Band II	9262	VN	TN	-12.72	-0.006867	2.5	PASS
Band II	9262	VH	TN	-5.27	-0.002845	2.5	PASS
Band II	9400	VL	TN	-16.67	-0.008867	2.5	PASS
Band II	9400	VN	TN	-15.26	-0.008117	2.5	PASS
Band II	9400	VH	TN	-12.44	-0.006617	2.5	PASS
Band II	9538	VL	TN	-5.34	-0.002799	2.5	PASS
Band II	9538	VN	TN	-10.75	-0.005635	2.5	PASS
Band II	9538	VH	TN	-14.52	-0.007612	2.5	PASS
Band V	4132	VL	TN	-12.59	-0.015235	2.5	PASS
Band V	4132	VN	TN	-15.30	-0.018514	2.5	PASS
Band V	4132	VH	TN	-12.87	-0.015574	2.5	PASS
Band V	4182	VL	TN	-10.53	-0.012590	2.5	PASS
Band V	4182	VN	TN	-9.70	-0.011597	2.5	PASS
Band V	4182	VH	TN	-12.32	-0.014730	2.5	PASS
Band V	4233	VL	TN	-14.05	-0.016596	2.5	PASS
Band V	4233	VN	TN	-9.74	-0.011505	2.5	PASS
Band V	4233	VH	TN	-12.41	-0.014659	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-9.69	-0.005231	2.5	PASS
Band II	9262	VN	-20	-6.45	-0.003482	2.5	PASS
Band II	9262	VN	-10	-8.83	-0.004767	2.5	PASS
Band II	9262	VN	0	-9.09	-0.004907	2.5	PASS
Band II	9262	VN	10	-10.77	-0.005814	2.5	PASS
Band II	9262	VN	20	-6.96	-0.003757	2.5	PASS
Band II	9262	VN	30	-11.71	-0.006322	2.5	PASS
Band II	9262	VN	40	-15.79	-0.008524	2.5	PASS
Band II	9262	VN	50	-14.19	-0.007660	2.5	PASS
Band II	9400	VN	-30	-10.69	-0.005686	2.5	PASS
Band II	9400	VN	-20	-15.16	-0.008064	2.5	PASS
Band II	9400	VN	-10	-13.01	-0.006920	2.5	PASS
Band II	9400	VN	0	-14.86	-0.007904	2.5	PASS
Band II	9400	VN	10	-16.18	-0.008606	2.5	PASS
Band II	9400	VN	20	-10.29	-0.005473	2.5	PASS
Band II	9400	VN	30	-7.74	-0.004117	2.5	PASS
Band II	9400	VN	40	-13.55	-0.007207	2.5	PASS
Band II	9400	VN	50	-4.45	-0.002367	2.5	PASS
Band II	9538	VN	-30	-5.80	-0.003040	2.5	PASS
Band II	9538	VN	-20	-7.80	-0.004089	2.5	PASS
Band II	9538	VN	-10	-8.74	-0.004582	2.5	PASS
Band II	9538	VN	0	-5.29	-0.002773	2.5	PASS
Band II	9538	VN	10	-12.92	-0.006773	2.5	PASS
Band II	9538	VN	20	-14.66	-0.007685	2.5	PASS
Band II	9538	VN	30	-11.17	-0.005856	2.5	PASS
Band II	9538	VN	40	-16.14	-0.008461	2.5	PASS
Band II	9538	VN	50	-5.96	-0.003124	2.5	PASS
Band V	4132	VN	-30	-13.75	-0.016638	2.5	PASS
Band V	4132	VN	-20	-14.57	-0.017631	2.5	PASS
Band V	4132	VN	-10	-9.61	-0.011629	2.5	PASS
Band V	4132	VN	0	-13.90	-0.016820	2.5	PASS
Band V	4132	VN	10	-15.21	-0.018405	2.5	PASS
Band V	4132	VN	20	-13.48	-0.016312	2.5	PASS
Band V	4132	VN	30	-11.07	-0.013395	2.5	PASS
Band V	4132	VN	40	-9.53	-0.011532	2.5	PASS
Band V	4132	VN	50	-12.36	-0.014956	2.5	PASS
Band V	4182	VN	-30	-9.18	-0.010976	2.5	PASS
Band V	4182	VN	-20	-9.76	-0.011669	2.5	PASS
Band V	4182	VN	-10	-11.01	-0.013164	2.5	PASS
Band V	4182	VN	0	-11.54	-0.013797	2.5	PASS
Band V	4182	VN	10	-8.30	-0.009923	2.5	PASS
Band V	4182	VN	20	-17.09	-0.020433	2.5	PASS
Band V	4182	VN	30	-9.88	-0.011813	2.5	PASS
Band V	4182	VN	40	-13.02	-0.015567	2.5	PASS
Band V	4182	VN	50	-11.60	-0.013869	2.5	PASS
Band V	4233	VN	-30	-4.38	-0.005174	2.5	PASS

Band V	4233	VN	-20	-11.75	-0.013879	2.5	PASS
Band V	4233	VN	-10	-8.58	-0.010135	2.5	PASS
Band V	4233	VN	0	-8.97	-0.010595	2.5	PASS
Band V	4233	VN	10	-9.55	-0.011280	2.5	PASS
Band V	4233	VN	20	-11.60	-0.013702	2.5	PASS
Band V	4233	VN	30	-8.15	-0.009627	2.5	PASS
Band V	4233	VN	40	-6.88	-0.008127	2.5	PASS
Band V	4233	VN	50	-10.95	-0.012934	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	WCMDA	23.01	-0.50	22.51	0.1782	2	PASS
	HSDPA	22.05	-0.50	21.55	0.1429	2	PASS
	HSUPA	22.03	-0.50	21.53	0.1422	2	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
Band V	WCMDA	22.35	-1.00	19.20	0.0832	7	PASS
	HSDPA	21.43	-1.00	18.28	0.0673	7	PASS
	HSUPA	21.43	-1.00	18.28	0.0673	7	PASS

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