

APPENDIX REPORT

Project No.	SHT2107001005EW	Radio Specification	WCDMA
Test sample No.	YPHT21070010013	Model No.	L610
Start test date	2021-7-9	Finish date	2021-7-9
Temperature	24.9°C	Humidity	31%
Test Engineer	Weiyang Xiang	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

8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	23.18	33	PASS
Band II	9400	23.25	33	PASS
Band II	9538	23.28	33	PASS
Band V	4132	23.35	38.5	PASS
Band V	4182	23.37	38.5	PASS
Band V	4233	23.43	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	22.20	33	PASS
Band II	9262	HSDPA_Sub2	21.72	33	PASS
Band II	9262	HSDPA_Sub3	21.67	33	PASS
Band II	9262	HSDPA_Sub4	21.65	33	PASS
Band II	9400	HSDPA_Sub1	22.27	33	PASS
Band II	9400	HSDPA_Sub2	21.75	33	PASS
Band II	9400	HSDPA_Sub3	21.75	33	PASS
Band II	9400	HSDPA_Sub4	21.74	33	PASS
Band II	9538	HSDPA_Sub1	22.33	33	PASS
Band II	9538	HSDPA_Sub2	21.79	33	PASS
Band II	9538	HSDPA_Sub3	21.80	33	PASS
Band II	9538	HSDPA_Sub4	21.78	33	PASS
Band V	4132	HSDPA_Sub1	22.35	38.5	PASS
Band V	4132	HSDPA_Sub2	21.82	38.5	PASS
Band V	4132	HSDPA_Sub3	21.85	38.5	PASS
Band V	4132	HSDPA_Sub4	21.83	38.5	PASS
Band V	4182	HSDPA_Sub1	22.36	38.5	PASS
Band V	4182	HSDPA_Sub2	21.81	38.5	PASS
Band V	4182	HSDPA_Sub3	21.82	38.5	PASS
Band V	4182	HSDPA_Sub4	21.80	38.5	PASS
Band V	4233	HSDPA_Sub1	22.41	38.5	PASS
Band V	4233	HSDPA_Sub2	21.87	38.5	PASS
Band V	4233	HSDPA_Sub3	21.89	38.5	PASS
Band V	4233	HSDPA_Sub4	21.84	38.5	PASS

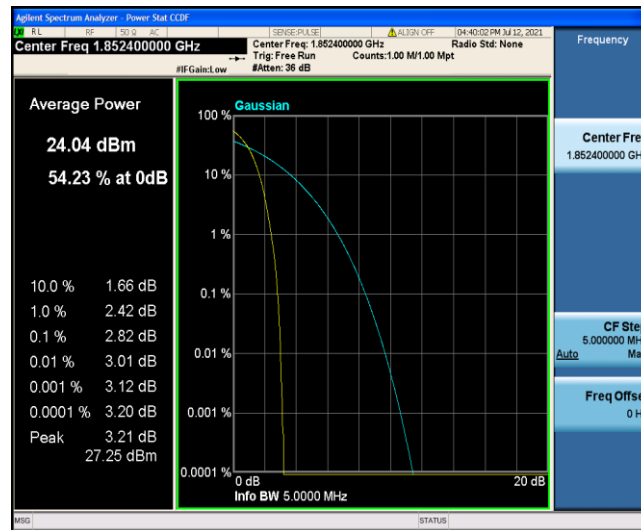
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	20.25	33	PASS
Band II	9262	HSUPA_Sub2	20.73	33	PASS
Band II	9262	HSUPA_Sub3	21.23	33	PASS
Band II	9262	HSUPA_Sub4	20.24	33	PASS
Band II	9262	HSUPA_Sub5	22.26	33	PASS
Band II	9400	HSUPA_Sub1	20.27	33	PASS
Band II	9400	HSUPA_Sub2	20.81	33	PASS
Band II	9400	HSUPA_Sub3	21.32	33	PASS
Band II	9400	HSUPA_Sub4	20.34	33	PASS
Band II	9400	HSUPA_Sub5	22.30	33	PASS
Band II	9538	HSUPA_Sub1	20.33	33	PASS
Band II	9538	HSUPA_Sub2	20.82	33	PASS
Band II	9538	HSUPA_Sub3	21.36	33	PASS
Band II	9538	HSUPA_Sub4	20.34	33	PASS
Band II	9538	HSUPA_Sub5	22.33	33	PASS
Band V	4132	HSUPA_Sub1	20.40	38.5	PASS
Band V	4132	HSUPA_Sub2	20.88	38.5	PASS
Band V	4132	HSUPA_Sub3	21.36	38.5	PASS
Band V	4132	HSUPA_Sub4	20.41	38.5	PASS
Band V	4132	HSUPA_Sub5	22.35	38.5	PASS
Band V	4182	HSUPA_Sub1	20.42	38.5	PASS
Band V	4182	HSUPA_Sub2	20.91	38.5	PASS
Band V	4182	HSUPA_Sub3	21.41	38.5	PASS
Band V	4182	HSUPA_Sub4	20.40	38.5	PASS
Band V	4182	HSUPA_Sub5	22.36	38.5	PASS
Band V	4233	HSUPA_Sub1	20.48	38.5	PASS
Band V	4233	HSUPA_Sub2	20.94	38.5	PASS
Band V	4233	HSUPA_Sub3	21.45	38.5	PASS
Band V	4233	HSUPA_Sub4	20.48	38.5	PASS
Band V	4233	HSUPA_Sub5	22.46	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

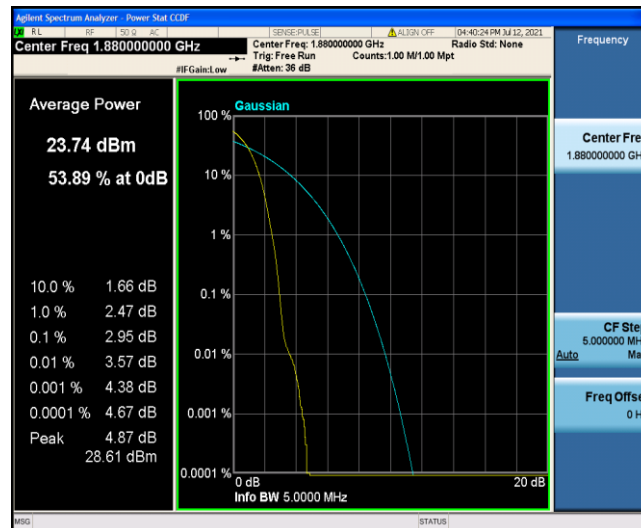
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.82	13	PASS
Band II	9400	2.95	13	PASS
Band II	9538	2.92	13	PASS
Band V	4132	2.76	13	PASS
Band V	4182	2.70	13	PASS
Band V	4233	2.73	13	PASS

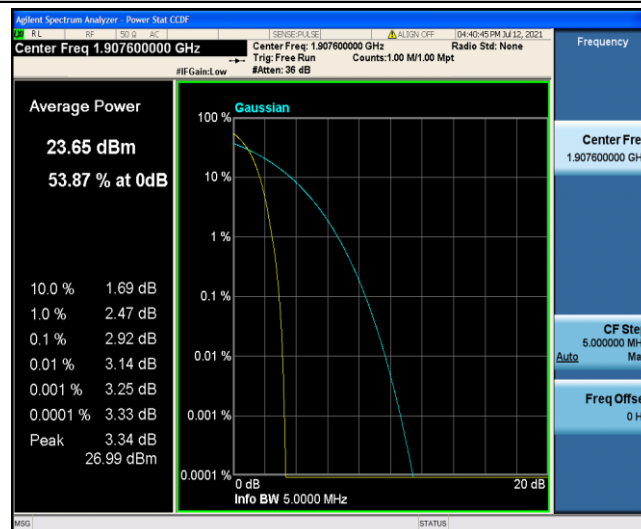
Test Graphs



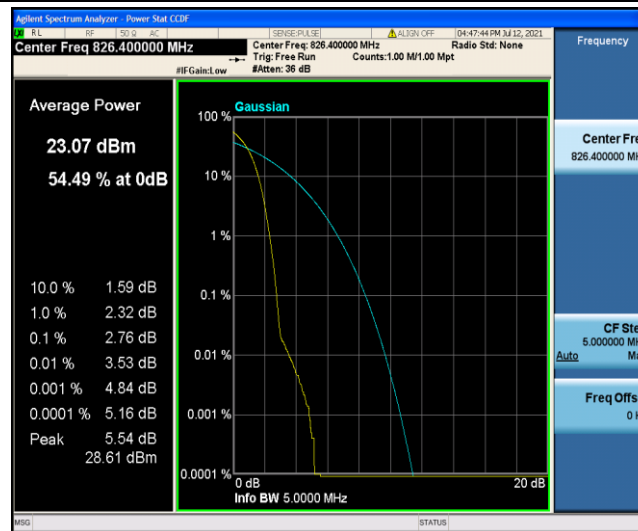
Band II_9262



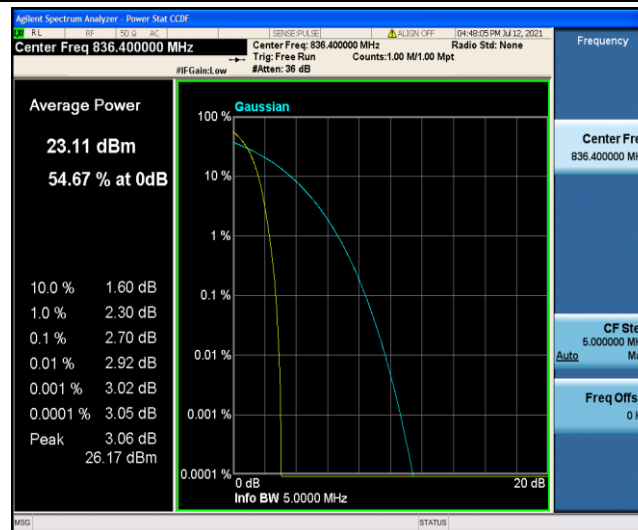
Band II_9400



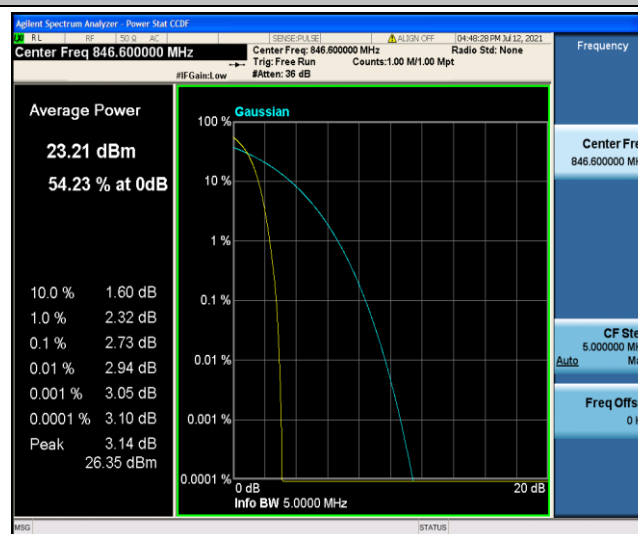
Band II_9538



Band V_4132



Band V_4182



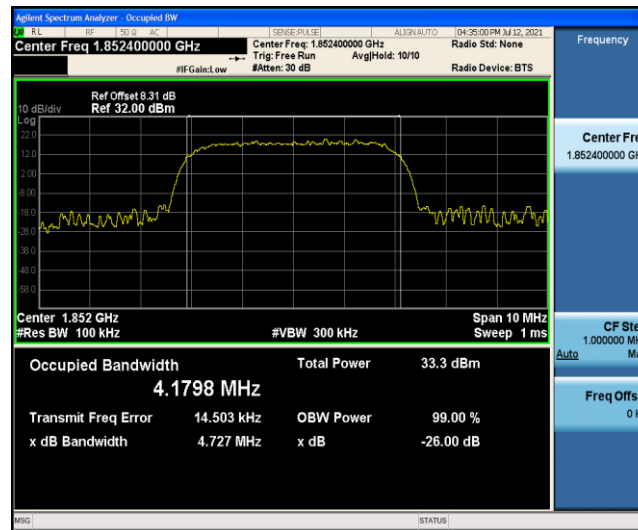
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

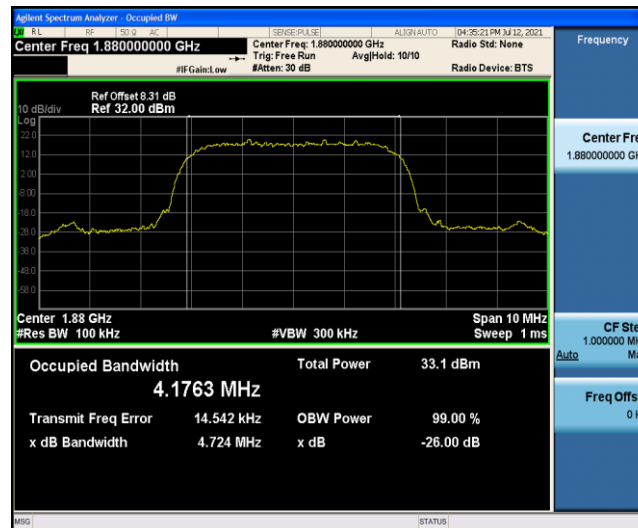
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4179.8	4727	---	PASS
Band II	9400	4176.3	4724	---	PASS
Band II	9538	4182.4	4728	---	PASS
Band V	4132	4181.7	4733	---	PASS
Band V	4182	4195.5	4843	---	PASS
Band V	4233	4159.9	4730	---	PASS

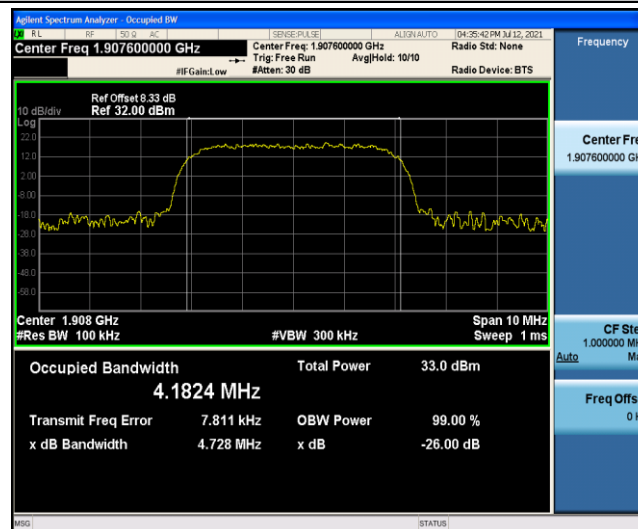
Test Graphs



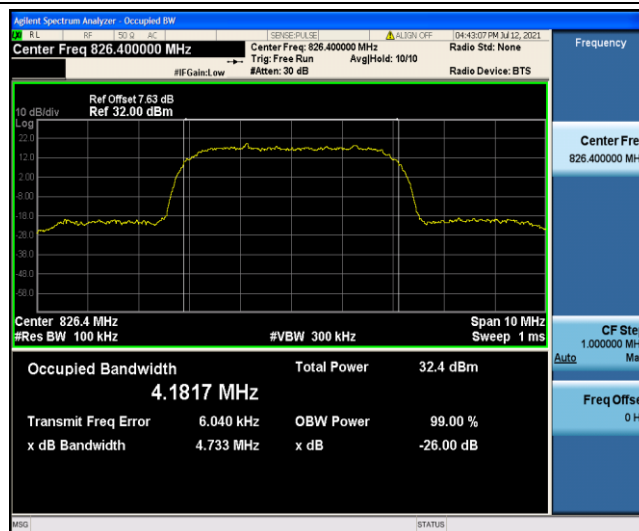
Band II_9262



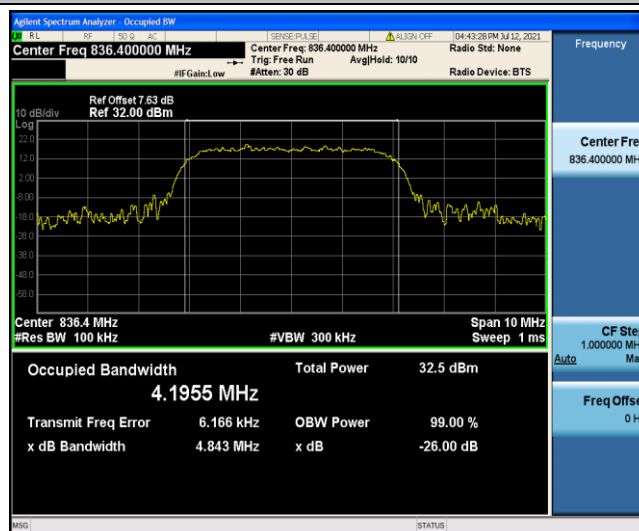
Band II_9400



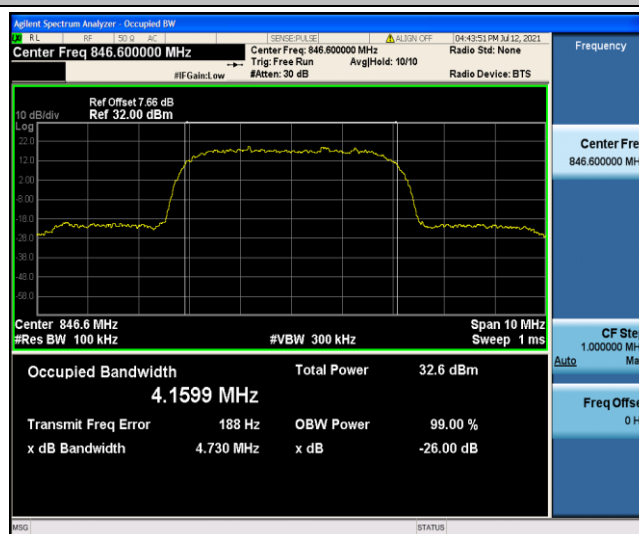
Band II_9538



Band V_4132



Band V_4182



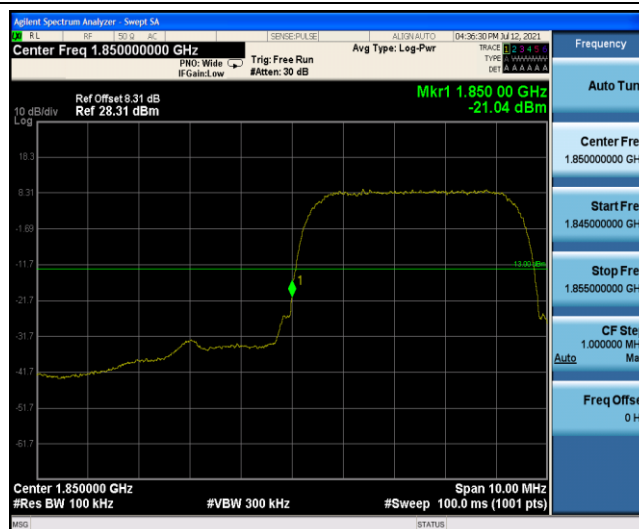
Band V_4233

8.4 Appendix D: Band Edge

Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-21.04	-13	PASS
Band II	9538	-21.41	-13	PASS
Band V	4132	-19.95	-13	PASS
Band V	4233	-21.06	-13	PASS

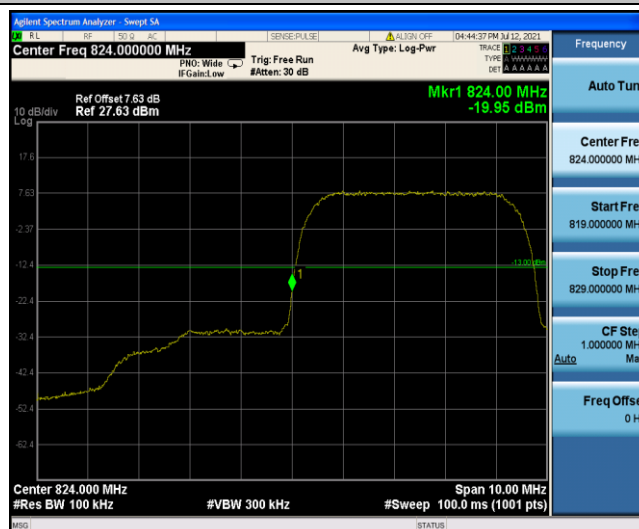
Test Graphs



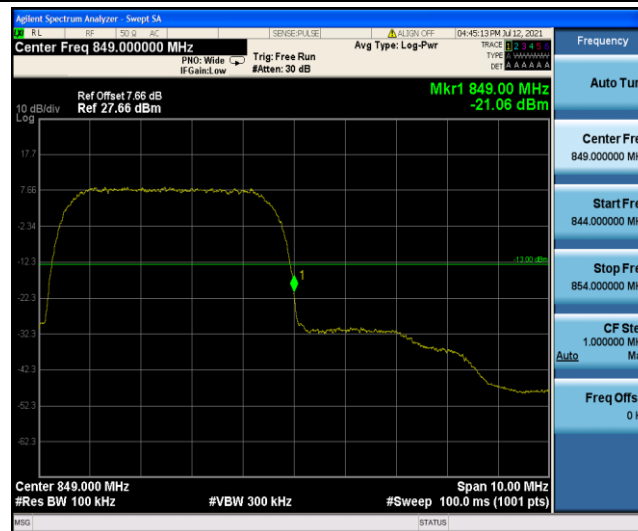
Band II_9262



Band II_9538



Band V_4132



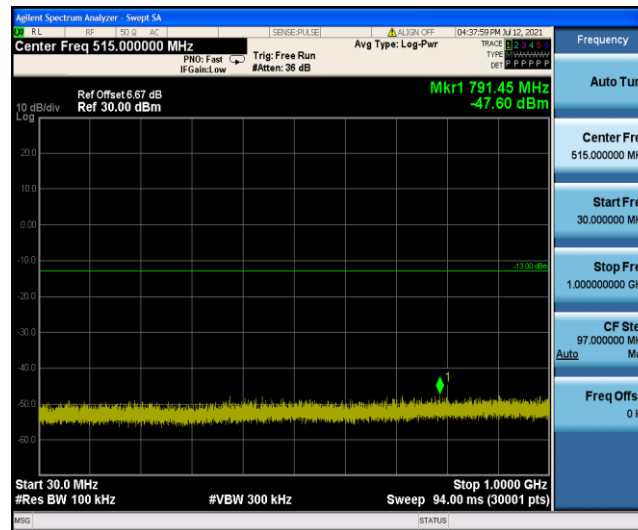
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

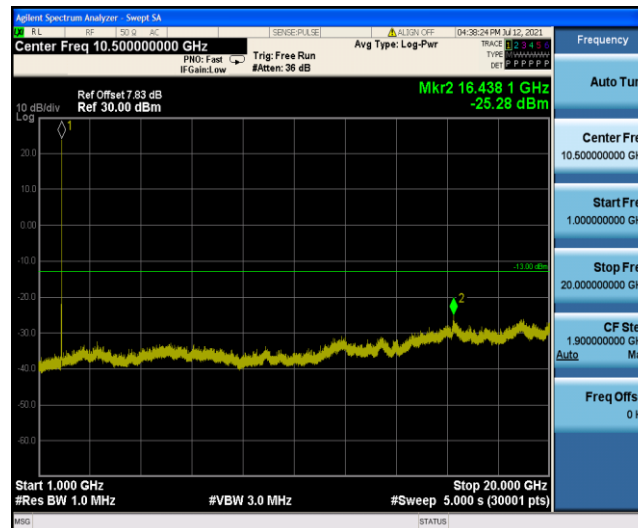
Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-47.60	-13	PASS
Band II	9262	1000~20000	-25.28	-13	PASS
Band II	9400	30~1000	-46.76	-13	PASS
Band II	9400	1000~20000	-26.50	-13	PASS
Band II	9538	30~1000	-47.23	-13	PASS
Band II	9538	1000~20000	-25.84	-13	PASS
Band V	4132	30~1000	-47.13	-13	PASS
Band V	4132	1000~10000	-31.97	-13	PASS
Band V	4182	30~1000	-47.41	-13	PASS
Band V	4182	1000~10000	-32.14	-13	PASS
Band V	4233	30~1000	-47.13	-13	PASS
Band V	4233	1000~10000	-31.56	-13	PASS

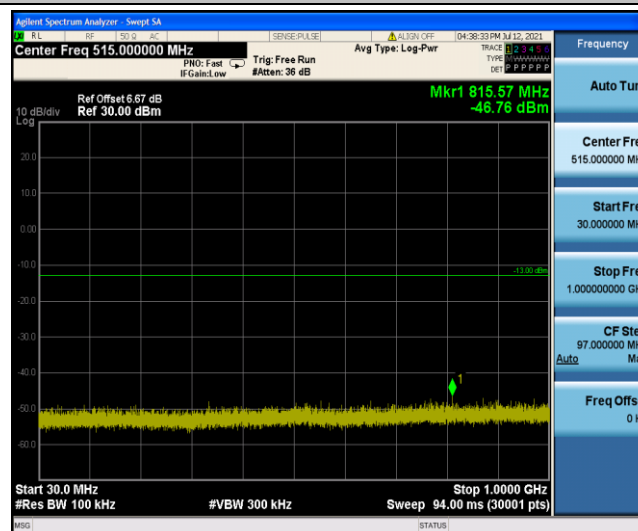
Test Graphs



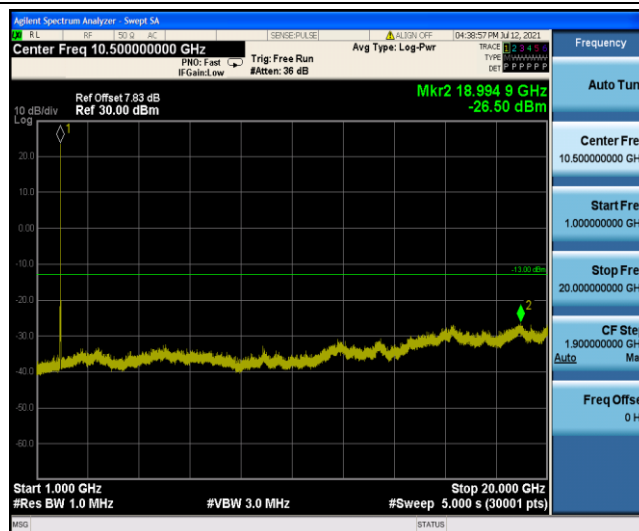
Band II_9262



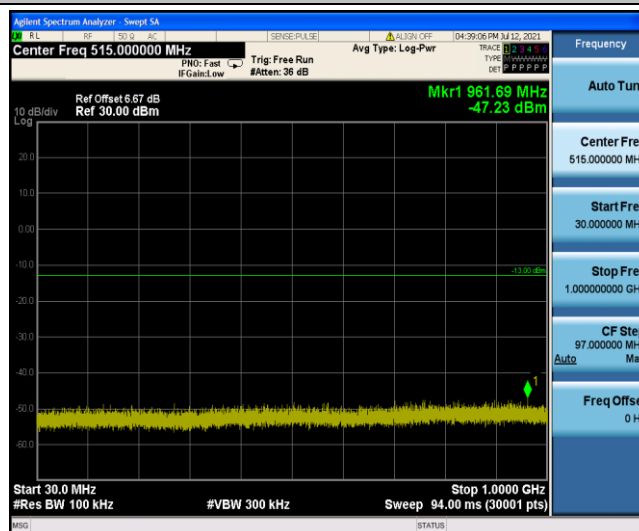
Band II_9262



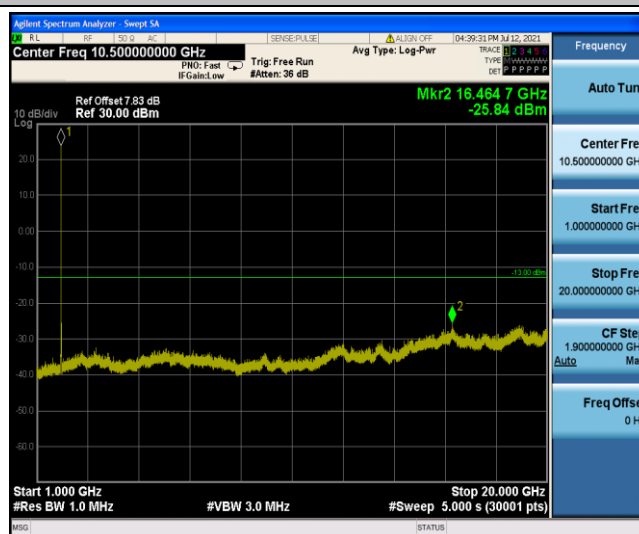
Band II_9400



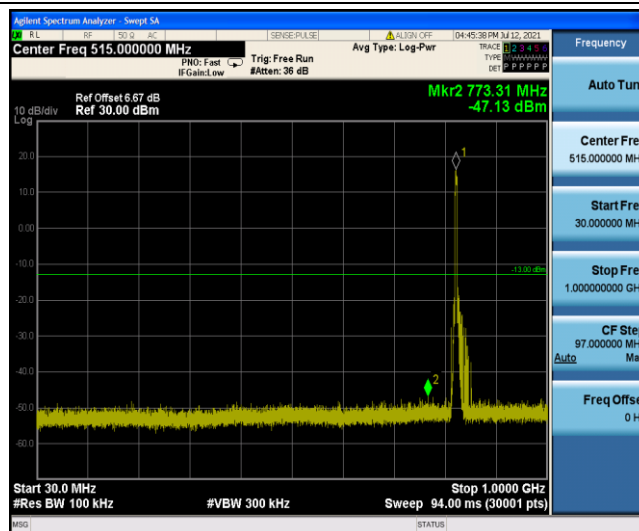
Band II_9400



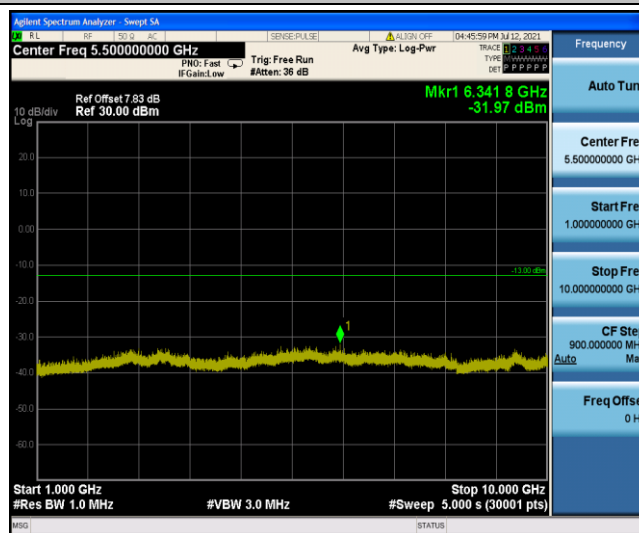
Band II_9538



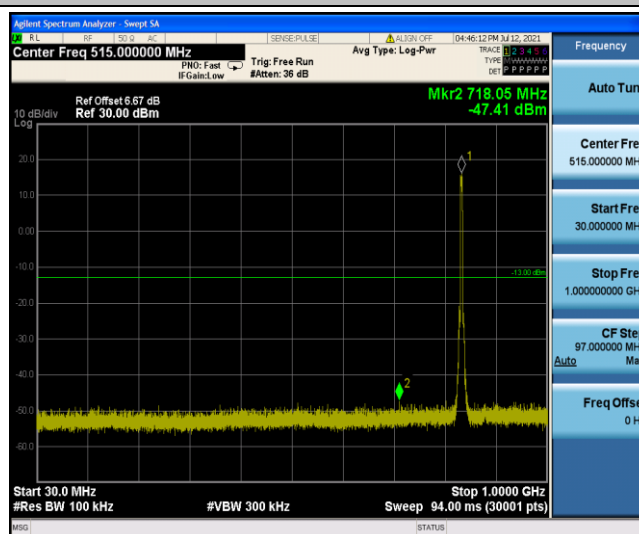
Band II_9538



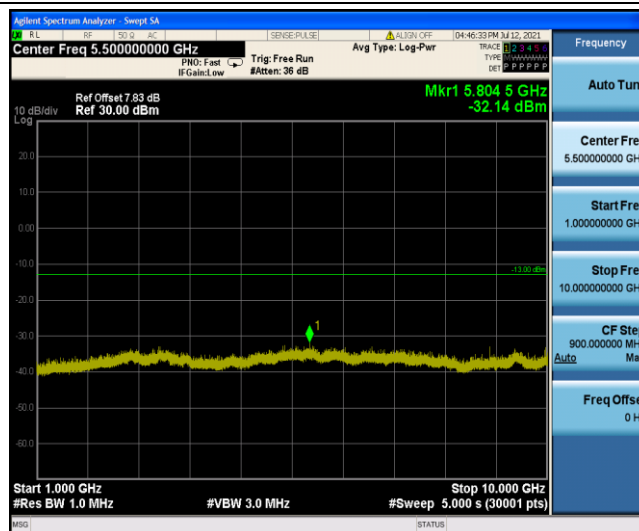
Band V_4132



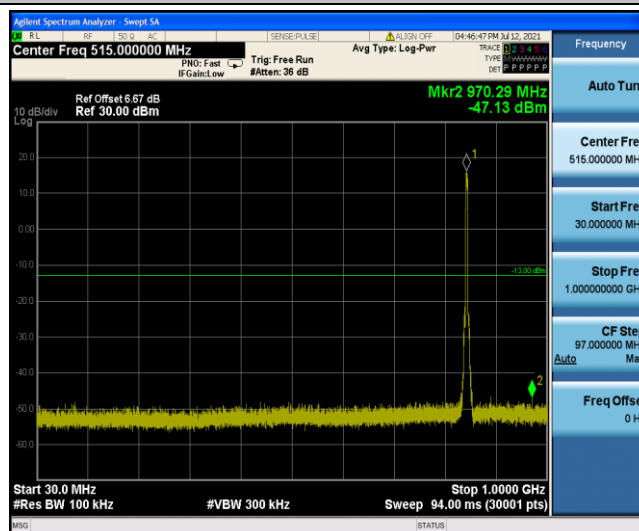
Band V_4132



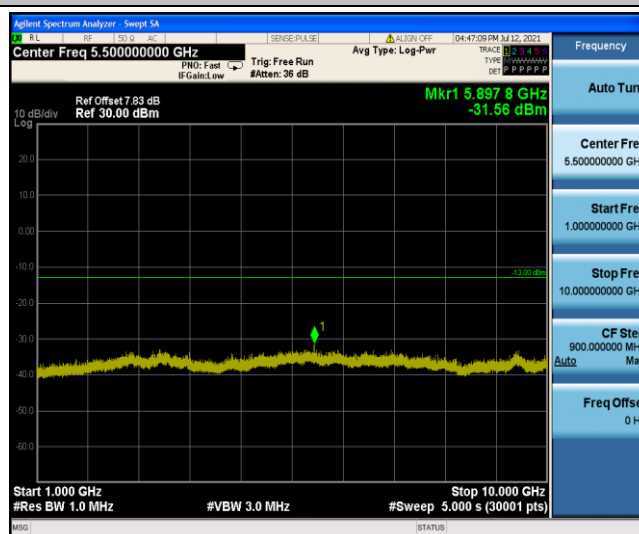
Band V_4182



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	-18.76	-0.010127	2.5	PASS
Band II	9262	VN	TN	-18.13	-0.009787	2.5	PASS
Band II	9262	VH	TN	-16.95	-0.009150	2.5	PASS
Band II	9400	VL	TN	-18.37	-0.009771	2.5	PASS
Band II	9400	VN	TN	-14.88	-0.007915	2.5	PASS
Band II	9400	VH	TN	-9.56	-0.005085	2.5	PASS
Band II	9538	VL	TN	-9.63	-0.005048	2.5	PASS
Band II	9538	VN	TN	-13.89	-0.007281	2.5	PASS
Band II	9538	VH	TN	-17.27	-0.009053	2.5	PASS
Band V	4132	VL	TN	-8.14	-0.009850	2.5	PASS
Band V	4132	VN	TN	-6.43	-0.007781	2.5	PASS
Band V	4132	VH	TN	-9.28	-0.011229	2.5	PASS
Band V	4182	VL	TN	-10.88	-0.013008	2.5	PASS
Band V	4182	VN	TN	-8.42	-0.010067	2.5	PASS
Band V	4182	VH	TN	-12.13	-0.014503	2.5	PASS
Band V	4233	VL	TN	-10.15	-0.011989	2.5	PASS
Band V	4233	VN	TN	-12.41	-0.014659	2.5	PASS
Band V	4233	VH	TN	-6.11	-0.007217	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-13.66	-0.007374	2.5	PASS
Band II	9262	VN	-20	-15.40	-0.008314	2.5	PASS
Band II	9262	VN	-10	-15.82	-0.008540	2.5	PASS
Band II	9262	VN	0	-13.58	-0.007331	2.5	PASS
Band II	9262	VN	10	-13.75	-0.007423	2.5	PASS
Band II	9262	VN	20	-9.53	-0.005145	2.5	PASS
Band II	9262	VN	30	-12.66	-0.006834	2.5	PASS
Band II	9262	VN	40	-12.78	-0.006899	2.5	PASS
Band II	9262	VN	50	-11.99	-0.006473	2.5	PASS
Band II	9400	VN	-30	-8.93	-0.004750	2.5	PASS
Band II	9400	VN	-20	-12.37	-0.006580	2.5	PASS
Band II	9400	VN	-10	-11.97	-0.006367	2.5	PASS
Band II	9400	VN	0	-14.25	-0.007580	2.5	PASS
Band II	9400	VN	10	-11.94	-0.006351	2.5	PASS
Band II	9400	VN	20	-14.88	-0.007915	2.5	PASS
Band II	9400	VN	30	-6.57	-0.003495	2.5	PASS
Band II	9400	VN	40	-6.56	-0.003489	2.5	PASS
Band II	9400	VN	50	-15.53	-0.008261	2.5	PASS
Band II	9538	VN	-30	-14.87	-0.007795	2.5	PASS
Band II	9538	VN	-20	-11.22	-0.005882	2.5	PASS
Band II	9538	VN	-10	-16.42	-0.008608	2.5	PASS
Band II	9538	VN	0	-12.93	-0.006778	2.5	PASS
Band II	9538	VN	10	-14.80	-0.007758	2.5	PASS
Band II	9538	VN	20	-6.45	-0.003381	2.5	PASS
Band II	9538	VN	30	-14.00	-0.007339	2.5	PASS
Band II	9538	VN	40	-11.42	-0.005987	2.5	PASS
Band II	9538	VN	50	-14.64	-0.007675	2.5	PASS
Band V	4132	VN	-30	-11.32	-0.013698	2.5	PASS
Band V	4132	VN	-20	-14.20	-0.017183	2.5	PASS
Band V	4132	VN	-10	-10.96	-0.013262	2.5	PASS
Band V	4132	VN	0	-14.29	-0.017292	2.5	PASS
Band V	4132	VN	10	-11.30	-0.013674	2.5	PASS
Band V	4132	VN	20	-6.92	-0.008374	2.5	PASS
Band V	4132	VN	30	-11.57	-0.014000	2.5	PASS
Band V	4132	VN	40	-13.98	-0.016917	2.5	PASS
Band V	4132	VN	50	-8.35	-0.010104	2.5	PASS
Band V	4182	VN	-30	-12.22	-0.014610	2.5	PASS
Band V	4182	VN	-20	-10.44	-0.012482	2.5	PASS
Band V	4182	VN	-10	-10.66	-0.012745	2.5	PASS
Band V	4182	VN	0	-15.61	-0.018663	2.5	PASS
Band V	4182	VN	10	-9.11	-0.010892	2.5	PASS
Band V	4182	VN	20	-11.69	-0.013977	2.5	PASS
Band V	4182	VN	30	-6.34	-0.007580	2.5	PASS
Band V	4182	VN	40	-7.21	-0.008620	2.5	PASS
Band V	4182	VN	50	-15.59	-0.018639	2.5	PASS
Band V	4233	VN	-30	-4.66	-0.005504	2.5	PASS

Band V	4233	VN	-20	-6.00	-0.007087	2.5	PASS
Band V	4233	VN	-10	-12.35	-0.014588	2.5	PASS
Band V	4233	VN	0	-7.42	-0.008764	2.5	PASS
Band V	4233	VN	10	-9.29	-0.010973	2.5	PASS
Band V	4233	VN	20	-11.04	-0.013040	2.5	PASS
Band V	4233	VN	30	-12.15	-0.014352	2.5	PASS
Band V	4233	VN	40	-7.22	-0.008528	2.5	PASS
Band V	4233	VN	50	-8.73	-0.010312	2.5	PASS

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