

# APPENDIX REPORT

Project No.	SHT2103073003EW	Radio Specification	WCDMA
Test sample No.	YPHT21030730012	Model No.	Y60
Start test date	2021/4/6	Finish date	2021/4/7
Temperature	24.5°C	Humidity	41%
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

**8.1 Appendix A: Conducted Output Power**

## Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	22.30	33	PASS
Band II	9400	22.29	33	PASS
Band II	9538	22.10	33	PASS
Band V	4132	22.45	38.5	PASS
Band V	4182	22.16	38.5	PASS
Band V	4233	22.36	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	21.81	33	PASS
Band II	9262	HSDPA_Sub2	21.42	33	PASS
Band II	9262	HSDPA_Sub3	21.05	33	PASS
Band II	9262	HSDPA_Sub4	20.84	33	PASS
Band II	9400	HSDPA_Sub1	21.66	33	PASS
Band II	9400	HSDPA_Sub2	21.36	33	PASS
Band II	9400	HSDPA_Sub3	21.04	33	PASS
Band II	9400	HSDPA_Sub4	20.82	33	PASS
Band II	9538	HSDPA_Sub1	21.57	33	PASS
Band II	9538	HSDPA_Sub2	21.23	33	PASS
Band II	9538	HSDPA_Sub3	20.89	33	PASS
Band II	9538	HSDPA_Sub4	20.70	33	PASS
Band V	4132	HSDPA_Sub1	21.48	38.5	PASS
Band V	4132	HSDPA_Sub2	21.79	38.5	PASS
Band V	4132	HSDPA_Sub3	20.96	38.5	PASS
Band V	4132	HSDPA_Sub4	20.96	38.5	PASS
Band V	4182	HSDPA_Sub1	21.40	38.5	PASS
Band V	4182	HSDPA_Sub2	21.73	38.5	PASS
Band V	4182	HSDPA_Sub3	20.84	38.5	PASS
Band V	4182	HSDPA_Sub4	20.83	38.5	PASS
Band V	4233	HSDPA_Sub1	21.58	38.5	PASS
Band V	4233	HSDPA_Sub2	21.86	38.5	PASS
Band V	4233	HSDPA_Sub3	20.97	38.5	PASS
Band V	4233	HSDPA_Sub4	20.97	38.5	PASS

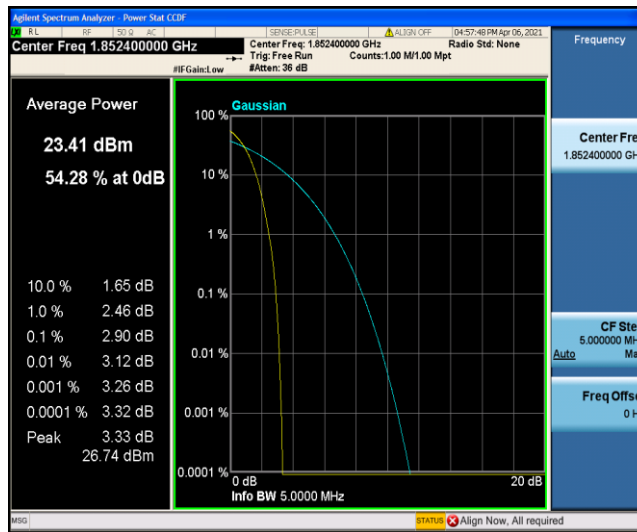
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	18.54	33	PASS
Band II	9262	HSUPA_Sub2	18.73	33	PASS
Band II	9262	HSUPA_Sub3	18.42	33	PASS
Band II	9262	HSUPA_Sub4	18.80	33	PASS
Band II	9262	HSUPA_Sub5	22.10	33	PASS
Band II	9400	HSUPA_Sub1	18.61	33	PASS
Band II	9400	HSUPA_Sub2	18.81	33	PASS
Band II	9400	HSUPA_Sub3	18.53	33	PASS
Band II	9400	HSUPA_Sub4	18.90	33	PASS
Band II	9400	HSUPA_Sub5	22.09	33	PASS
Band II	9538	HSUPA_Sub1	18.68	33	PASS
Band II	9538	HSUPA_Sub2	18.89	33	PASS
Band II	9538	HSUPA_Sub3	18.60	33	PASS
Band II	9538	HSUPA_Sub4	18.97	33	PASS
Band II	9538	HSUPA_Sub5	22.01	33	PASS
Band V	4132	HSUPA_Sub1	18.34	38.5	PASS
Band V	4132	HSUPA_Sub2	18.48	38.5	PASS
Band V	4132	HSUPA_Sub3	18.66	38.5	PASS
Band V	4132	HSUPA_Sub4	18.61	38.5	PASS
Band V	4132	HSUPA_Sub5	22.25	38.5	PASS
Band V	4182	HSUPA_Sub1	17.82	38.5	PASS
Band V	4182	HSUPA_Sub2	17.91	38.5	PASS
Band V	4182	HSUPA_Sub3	18.21	38.5	PASS
Band V	4182	HSUPA_Sub4	18.03	38.5	PASS
Band V	4182	HSUPA_Sub5	21.87	38.5	PASS
Band V	4233	HSUPA_Sub1	18.48	38.5	PASS
Band V	4233	HSUPA_Sub2	18.62	38.5	PASS
Band V	4233	HSUPA_Sub3	18.73	38.5	PASS
Band V	4233	HSUPA_Sub4	18.73	38.5	PASS
Band V	4233	HSUPA_Sub5	22.28	38.5	PASS

## 8.2 Appendix B: Peak-to-Average Ratio

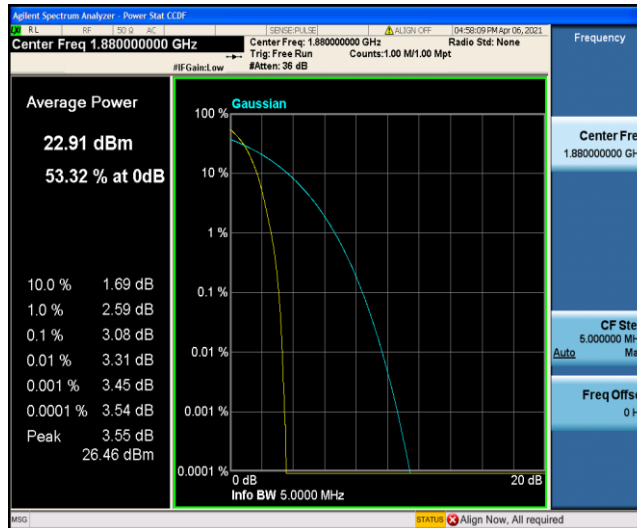
### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.90	13	PASS
Band II	9400	3.08	13	PASS
Band II	9538	3.02	13	PASS
Band V	4132	3.11	13	PASS
Band V	4182	3.14	13	PASS
Band V	4233	3.10	13	PASS

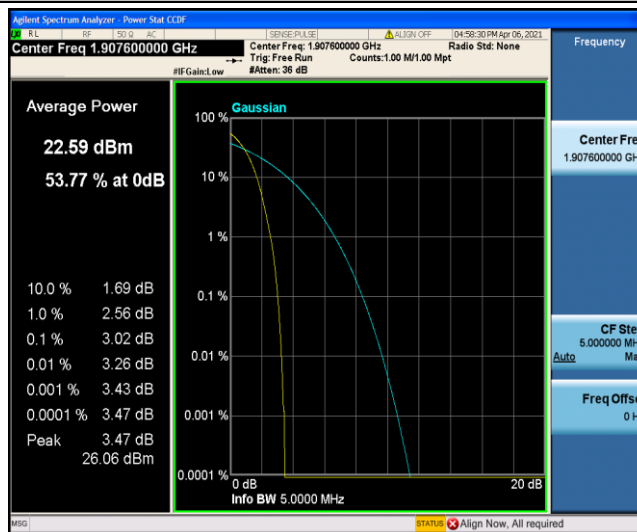
Test Graphs



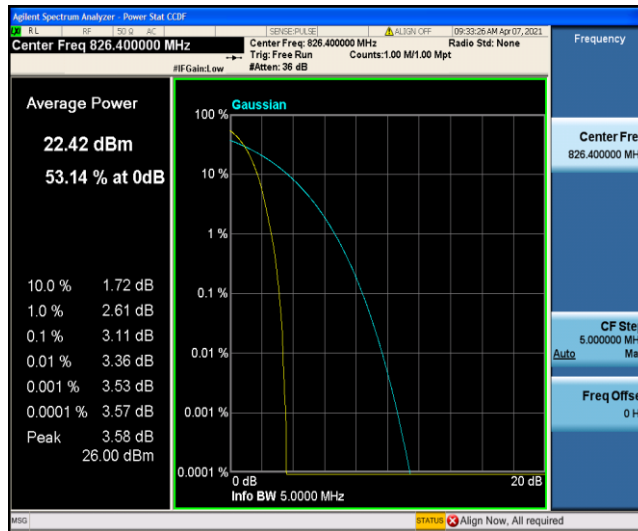
Band II\_9262



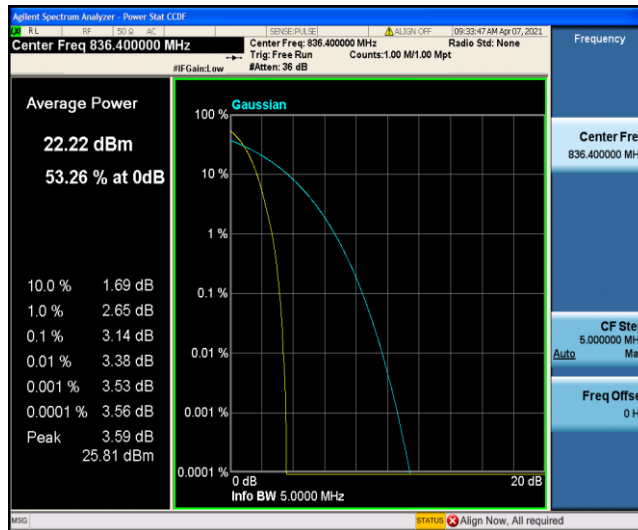
Band II\_9400



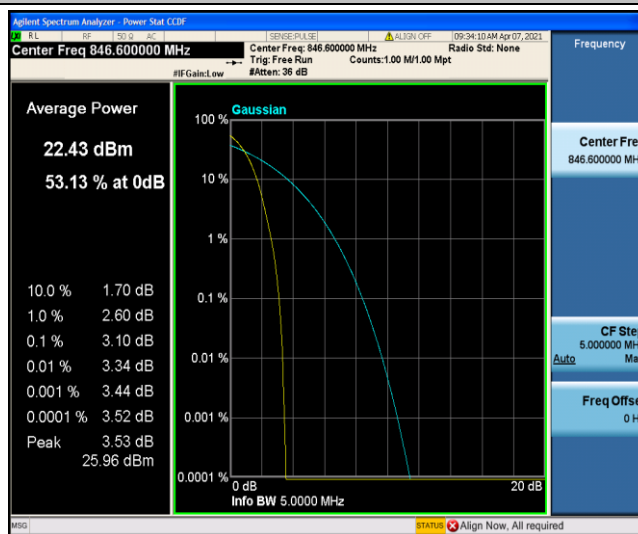
Band II\_9538



Band V\_4132



Band V\_4182



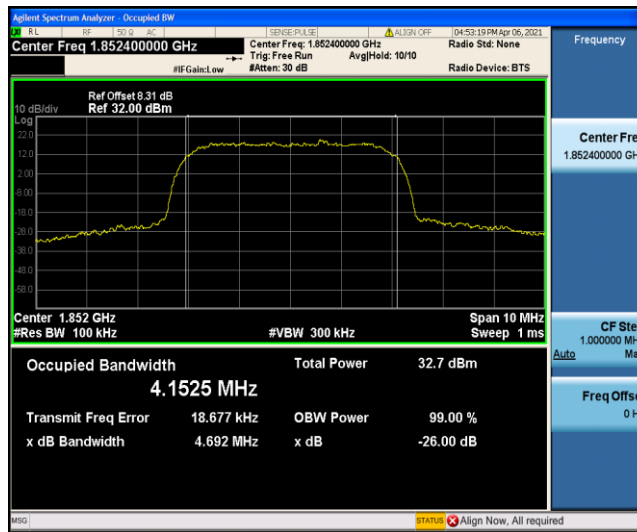
Band V\_4233

### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

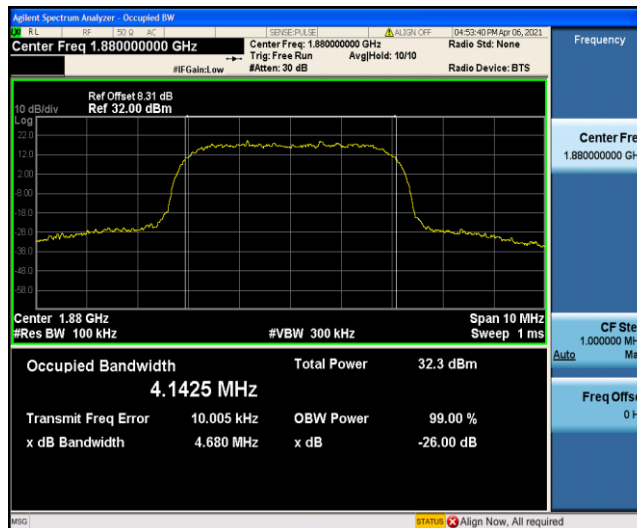
#### Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4152.5	4692	---	PASS
Band II	9400	4142.5	4680	---	PASS
Band II	9538	4153.1	4680	---	PASS
Band V	4132	4174.3	4675	---	PASS
Band V	4182	4140.1	4669	---	PASS
Band V	4233	4160.2	4703	---	PASS

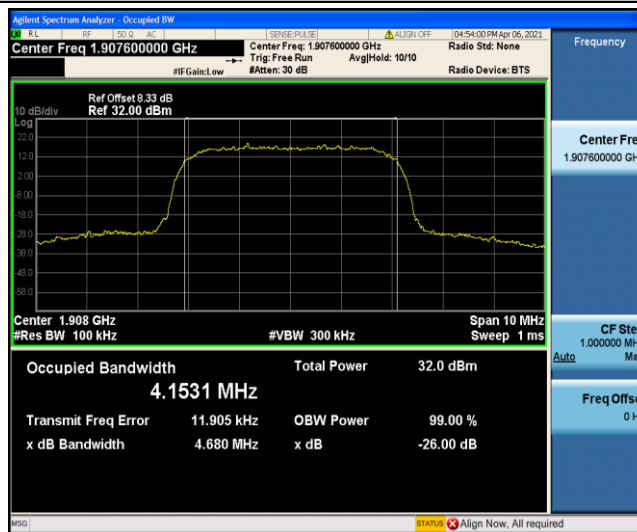
Test Graphs



Band II\_9262

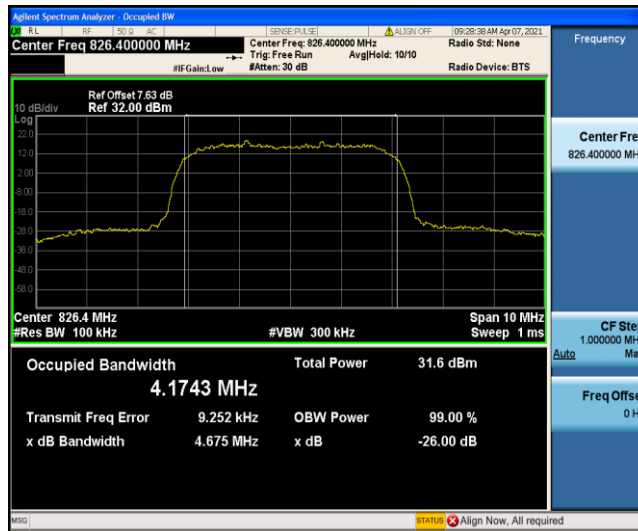


Band II\_9400

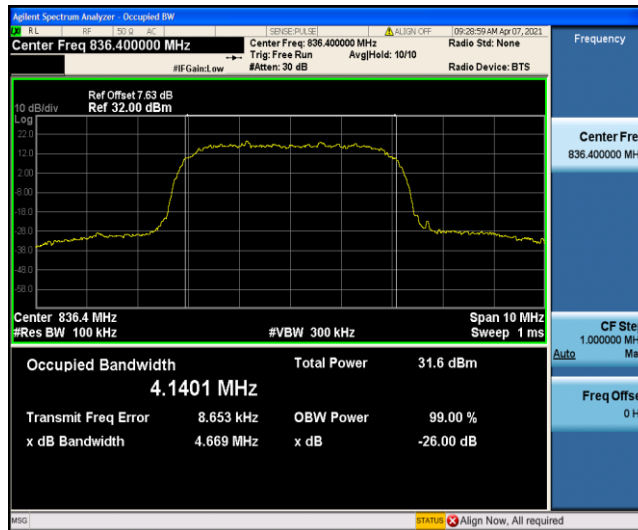


Band II\_9538

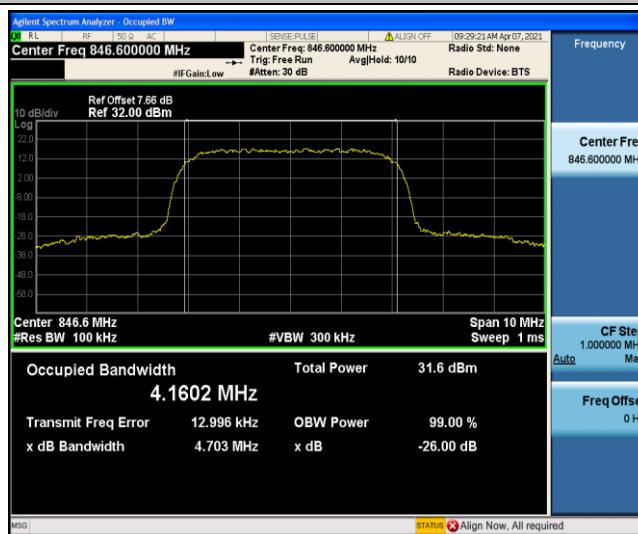




Band V\_4132



Band V\_4182



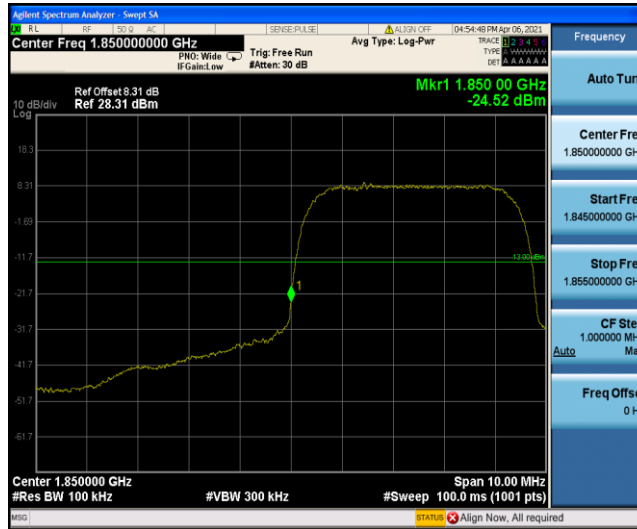
Band V\_4233

#### 8.4 Appendix D: Band Edge

##### Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-24.52	-13	PASS
Band II	9538	-25.51	-13	PASS
Band V	4132	-25.80	-13	PASS
Band V	4233	-26.28	-13	PASS

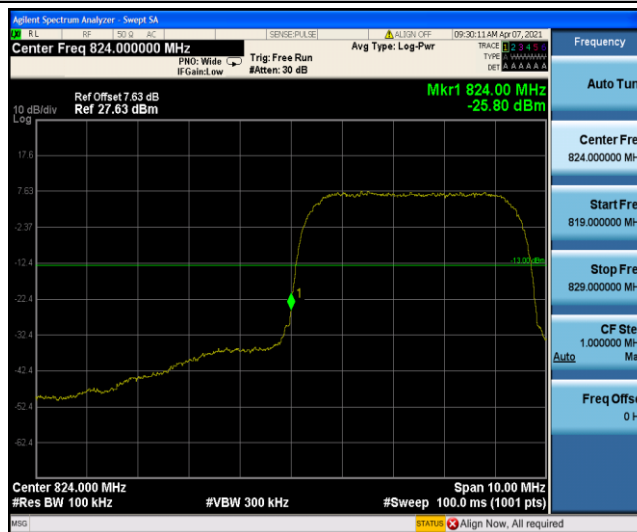
Test Graphs



Band II\_9262



Band II\_9538



Band V\_4132



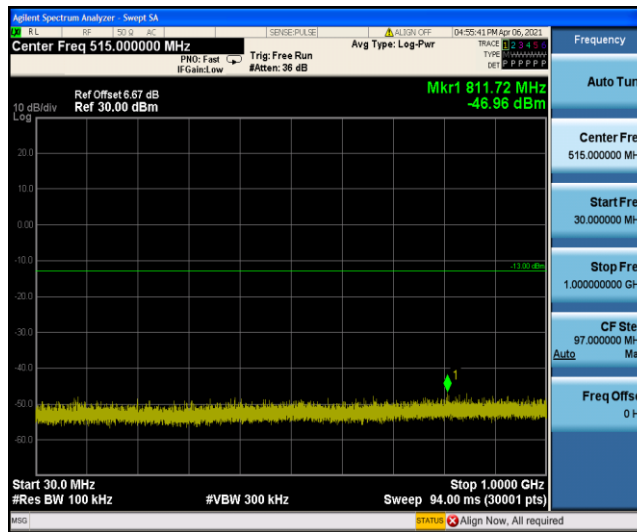
Band V\_4233

## 8.5 Appendix E: Conducted Spurious Emission

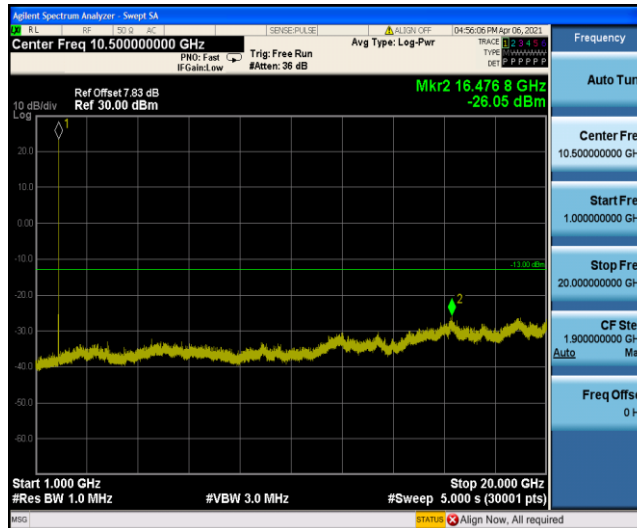
### Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-46.96	-13	PASS
Band II	9262	1000~20000	-26.05	-13	PASS
Band II	9400	30~1000	-47.68	-13	PASS
Band II	9400	1000~20000	-26.38	-13	PASS
Band II	9538	30~1000	-47.26	-13	PASS
Band II	9538	1000~20000	-25.88	-13	PASS
Band V	4132	30~1000	-47.46	-13	PASS
Band V	4132	1000~10000	-32.94	-13	PASS
Band V	4182	30~1000	-47.91	-13	PASS
Band V	4182	1000~10000	-32.84	-13	PASS
Band V	4233	30~1000	-48.38	-13	PASS
Band V	4233	1000~10000	-33.11	-13	PASS

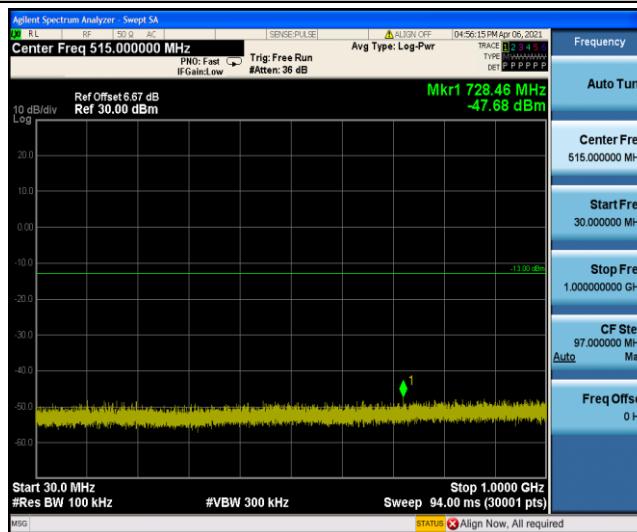
Test Graphs



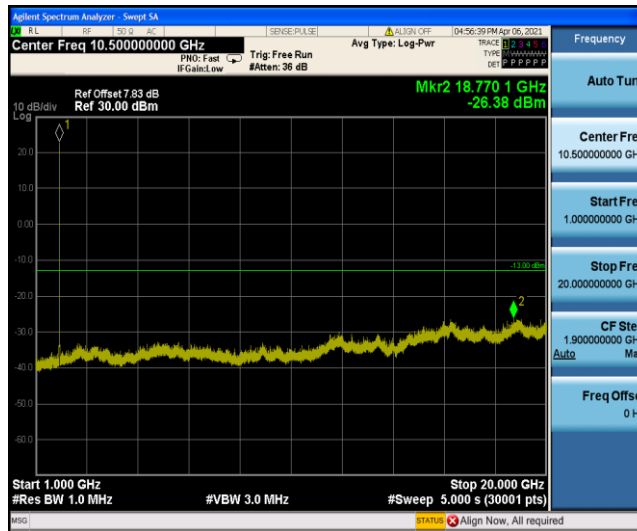
Band II\_9262



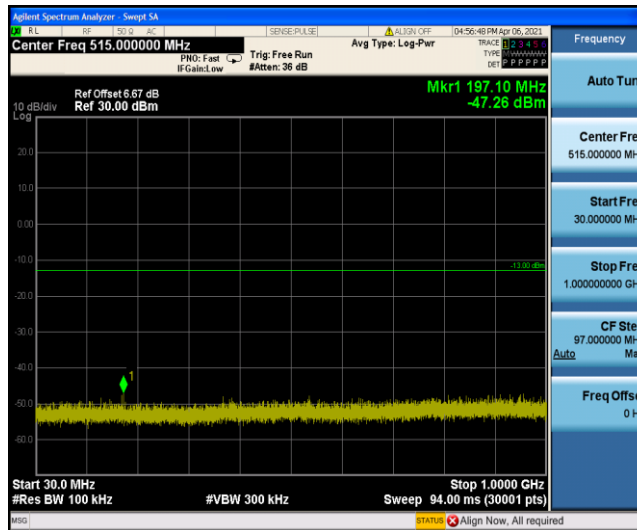
Band II\_9262



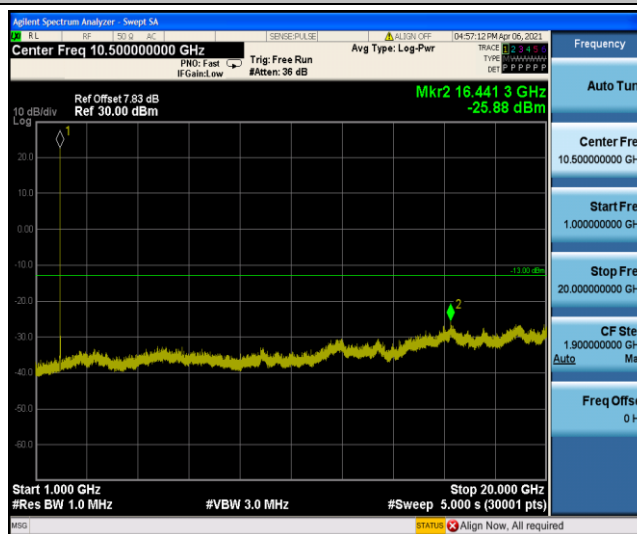
Band II\_9400



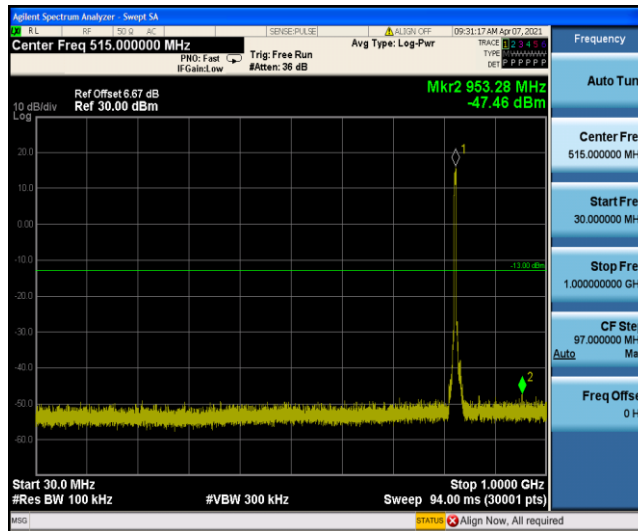
Band II\_9400



Band II\_9538



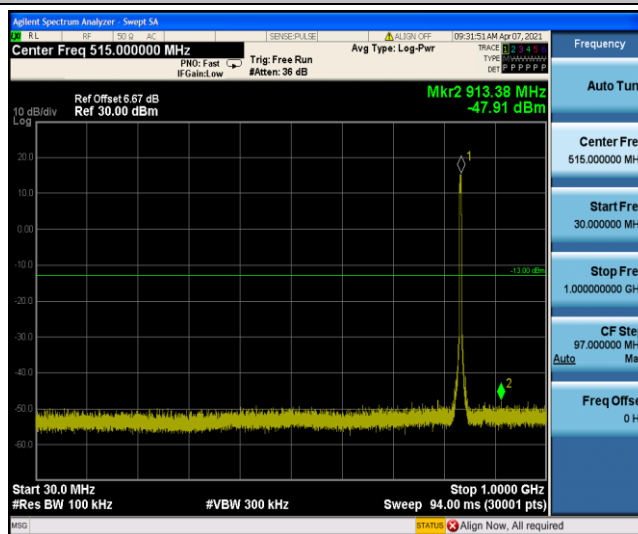
Band II\_9538



Band V\_4132

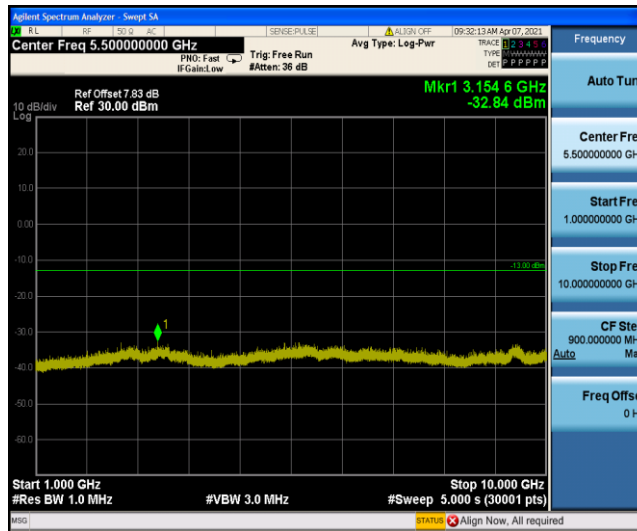


Band V\_4132

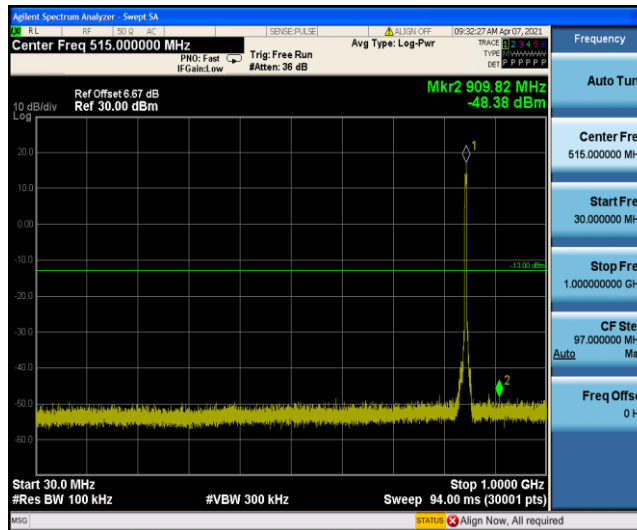


Band V\_4182

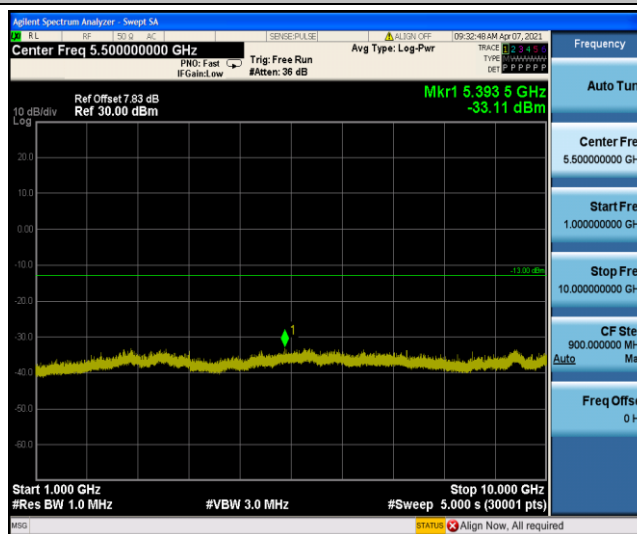




Band V\_4182



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	2.47	0.001333	2.5	PASS
Band II	9262	VN	TN	-0.47	-0.000254	2.5	PASS
Band II	9262	VH	TN	-1.03	-0.000556	2.5	PASS
Band II	9400	VL	TN	3.74	0.001989	2.5	PASS
Band II	9400	VN	TN	1.88	0.001000	2.5	PASS
Band II	9400	VH	TN	-0.44	-0.000234	2.5	PASS
Band II	9538	VL	TN	0.31	0.000163	2.5	PASS
Band II	9538	VN	TN	1.43	0.000750	2.5	PASS
Band II	9538	VH	TN	-0.11	-0.000058	2.5	PASS
Band V	4132	VL	TN	0.62	0.000750	2.5	PASS
Band V	4132	VN	TN	-0.17	-0.000206	2.5	PASS
Band V	4132	VH	TN	0.49	0.000593	2.5	PASS
Band V	4182	VL	TN	2.10	0.002511	2.5	PASS
Band V	4182	VN	TN	2.23	0.002666	2.5	PASS
Band V	4182	VH	TN	1.27	0.001518	2.5	PASS
Band V	4233	VL	TN	0.46	0.000543	2.5	PASS
Band V	4233	VN	TN	2.95	0.003485	2.5	PASS
Band V	4233	VH	TN	-3.72	-0.004394	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	2.52	0.001360	2.5	PASS
Band II	9262	VN	-20	3.69	0.001992	2.5	PASS
Band II	9262	VN	-10	2.88	0.001555	2.5	PASS
Band II	9262	VN	0	-1.24	-0.000669	2.5	PASS
Band II	9262	VN	10	2.82	0.001522	2.5	PASS
Band II	9262	VN	20	0.91	0.000491	2.5	PASS
Band II	9262	VN	30	-0.01	-0.000005	2.5	PASS
Band II	9262	VN	40	3.74	0.002019	2.5	PASS
Band II	9262	VN	50	-0.91	-0.000491	2.5	PASS
Band II	9400	VN	-30	0.10	0.000053	2.5	PASS
Band II	9400	VN	-20	2.93	0.001559	2.5	PASS
Band II	9400	VN	-10	-1.53	-0.000814	2.5	PASS
Band II	9400	VN	0	1.88	0.001000	2.5	PASS
Band II	9400	VN	10	0.89	0.000473	2.5	PASS
Band II	9400	VN	20	3.35	0.001782	2.5	PASS
Band II	9400	VN	30	-0.05	-0.000027	2.5	PASS
Band II	9400	VN	40	2.10	0.001117	2.5	PASS
Band II	9400	VN	50	2.73	0.001452	2.5	PASS
Band II	9538	VN	-30	3.50	0.001835	2.5	PASS
Band II	9538	VN	-20	1.33	0.000697	2.5	PASS
Band II	9538	VN	-10	2.19	0.001148	2.5	PASS
Band II	9538	VN	0	-3.65	-0.001913	2.5	PASS
Band II	9538	VN	10	0.64	0.000336	2.5	PASS
Band II	9538	VN	20	-0.30	-0.000157	2.5	PASS
Band II	9538	VN	30	-0.80	-0.000419	2.5	PASS
Band II	9538	VN	40	-0.02	-0.000010	2.5	PASS
Band II	9538	VN	50	0.36	0.000189	2.5	PASS
Band V	4132	VN	-30	0.30	0.000363	2.5	PASS
Band V	4132	VN	-20	0.01	0.000012	2.5	PASS
Band V	4132	VN	-10	0.98	0.001186	2.5	PASS
Band V	4132	VN	0	-0.20	-0.000242	2.5	PASS
Band V	4132	VN	10	1.39	0.001682	2.5	PASS
Band V	4132	VN	20	0.29	0.000351	2.5	PASS
Band V	4132	VN	30	-1.47	-0.001779	2.5	PASS
Band V	4132	VN	40	-4.11	-0.004973	2.5	PASS
Band V	4132	VN	50	1.79	0.002166	2.5	PASS
Band V	4182	VN	-30	0.96	0.001148	2.5	PASS
Band V	4182	VN	-20	0.03	0.000036	2.5	PASS
Band V	4182	VN	-10	-3.86	-0.004615	2.5	PASS
Band V	4182	VN	0	-14.12	-0.016882	2.5	PASS
Band V	4182	VN	10	-1.02	-0.001220	2.5	PASS
Band V	4182	VN	20	6.07	0.007257	2.5	PASS
Band V	4182	VN	30	0.46	0.000550	2.5	PASS
Band V	4182	VN	40	1.48	0.001769	2.5	PASS
Band V	4182	VN	50	-0.06	-0.000072	2.5	PASS
Band V	4233	VN	-30	-4.63	-0.005469	2.5	PASS

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Band V	4233	VN	-20	-3.69	-0.004359	2.5	PASS
Band V	4233	VN	-10	-0.84	-0.000992	2.5	PASS
Band V	4233	VN	0	-1.87	-0.002209	2.5	PASS
Band V	4233	VN	10	-3.79	-0.004477	2.5	PASS
Band V	4233	VN	20	0.57	0.000673	2.5	PASS
Band V	4233	VN	30	-0.55	-0.000650	2.5	PASS
Band V	4233	VN	40	-2.45	-0.002894	2.5	PASS
Band V	4233	VN	50	7.00	0.008268	2.5	PASS

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