

APPENDIX REPORT

Project No.	SHT2012093501EW	Radio Specification	WCDMA
Test sample No.	YPHT20120935003	Model No.	NOBU A60 Pro
Start test date	2020/12/29	Finish date	2020/12/29
Temperature	25°C	Humidity	50%
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	23.22	33	PASS
Band II	9400	23.11	33	PASS
Band II	9538	23.13	33	PASS
Band V	4132	23.89	38.5	PASS
Band V	4182	23.84	38.5	PASS
Band V	4233	23.76	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	22.33	33	PASS
Band II	9262	HSDPA_Sub2	21.81	33	PASS
Band II	9262	HSDPA_Sub3	21.82	33	PASS
Band II	9262	HSDPA_Sub4	21.82	33	PASS
Band II	9400	HSDPA_Sub1	22.22	33	PASS
Band II	9400	HSDPA_Sub2	21.64	33	PASS
Band II	9400	HSDPA_Sub3	21.68	33	PASS
Band II	9400	HSDPA_Sub4	21.65	33	PASS
Band II	9538	HSDPA_Sub1	22.13	33	PASS
Band II	9538	HSDPA_Sub2	21.63	33	PASS
Band II	9538	HSDPA_Sub3	21.67	33	PASS
Band II	9538	HSDPA_Sub4	21.73	33	PASS
Band V	4132	HSDPA_Sub1	23.01	38.5	PASS
Band V	4132	HSDPA_Sub2	22.45	38.5	PASS
Band V	4132	HSDPA_Sub3	22.47	38.5	PASS
Band V	4132	HSDPA_Sub4	22.43	38.5	PASS
Band V	4182	HSDPA_Sub1	22.83	38.5	PASS
Band V	4182	HSDPA_Sub2	22.32	38.5	PASS
Band V	4182	HSDPA_Sub3	22.33	38.5	PASS
Band V	4182	HSDPA_Sub4	22.32	38.5	PASS
Band V	4233	HSDPA_Sub1	22.87	38.5	PASS
Band V	4233	HSDPA_Sub2	22.30	38.5	PASS
Band V	4233	HSDPA_Sub3	22.29	38.5	PASS
Band V	4233	HSDPA_Sub4	22.27	38.5	PASS

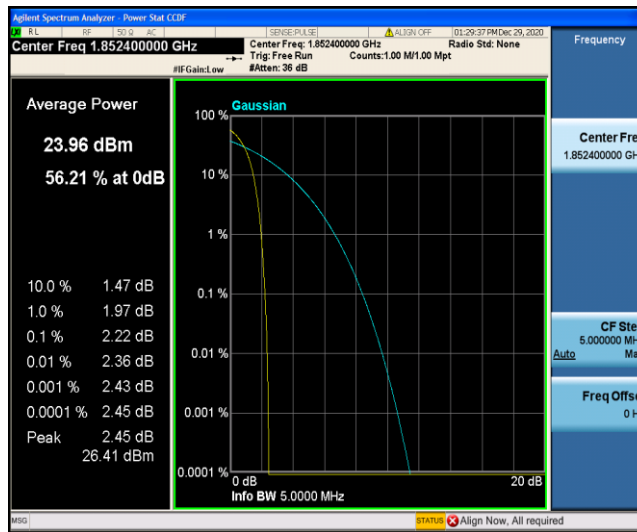
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	20.33	33	PASS
Band II	9262	HSUPA_Sub2	20.89	33	PASS
Band II	9262	HSUPA_Sub3	21.39	33	PASS
Band II	9262	HSUPA_Sub4	20.40	33	PASS
Band II	9262	HSUPA_Sub5	22.30	33	PASS
Band II	9400	HSUPA_Sub1	20.28	33	PASS
Band II	9400	HSUPA_Sub2	20.74	33	PASS
Band II	9400	HSUPA_Sub3	21.29	33	PASS
Band II	9400	HSUPA_Sub4	20.30	33	PASS
Band II	9400	HSUPA_Sub5	22.21	33	PASS
Band II	9538	HSUPA_Sub1	20.24	33	PASS
Band II	9538	HSUPA_Sub2	20.71	33	PASS
Band II	9538	HSUPA_Sub3	21.25	33	PASS
Band II	9538	HSUPA_Sub4	20.30	33	PASS
Band II	9538	HSUPA_Sub5	22.20	33	PASS
Band V	4132	HSUPA_Sub1	20.96	38.5	PASS
Band V	4132	HSUPA_Sub2	21.51	38.5	PASS
Band V	4132	HSUPA_Sub3	21.92	38.5	PASS
Band V	4132	HSUPA_Sub4	21.08	38.5	PASS
Band V	4132	HSUPA_Sub5	22.94	38.5	PASS
Band V	4182	HSUPA_Sub1	20.85	38.5	PASS
Band V	4182	HSUPA_Sub2	21.28	38.5	PASS
Band V	4182	HSUPA_Sub3	21.81	38.5	PASS
Band V	4182	HSUPA_Sub4	20.88	38.5	PASS
Band V	4182	HSUPA_Sub5	22.82	38.5	PASS
Band V	4233	HSUPA_Sub1	20.83	38.5	PASS
Band V	4233	HSUPA_Sub2	21.20	38.5	PASS
Band V	4233	HSUPA_Sub3	21.76	38.5	PASS
Band V	4233	HSUPA_Sub4	20.83	38.5	PASS
Band V	4233	HSUPA_Sub5	22.79	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

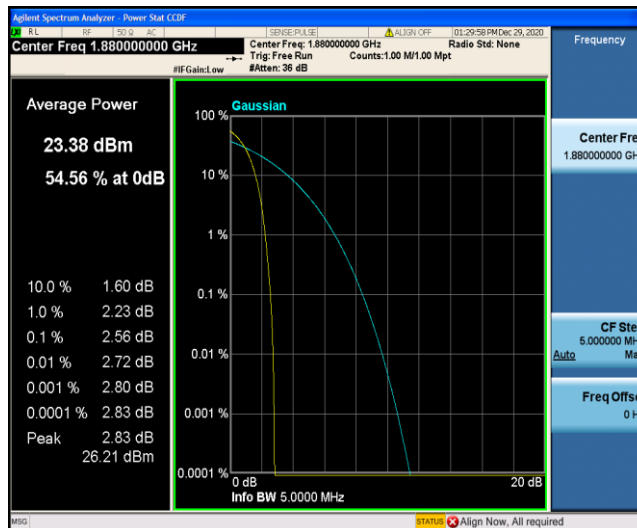
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.22	13	PASS
Band II	9400	2.56	13	PASS
Band II	9538	2.45	13	PASS
Band V	4132	2.87	13	PASS
Band V	4182	2.95	13	PASS
Band V	4233	2.91	13	PASS

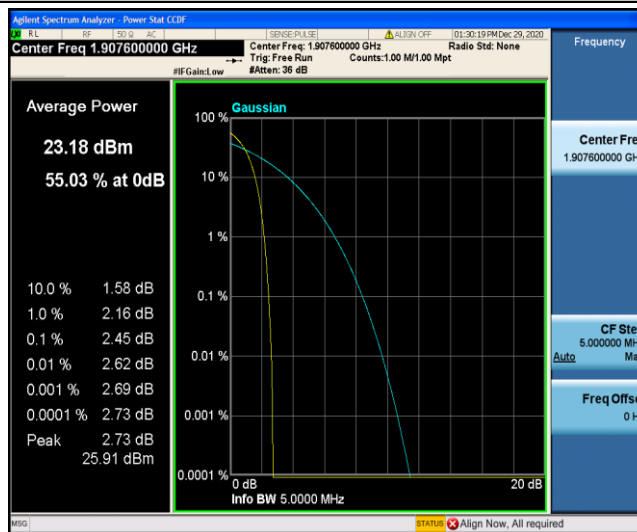
Test Graphs



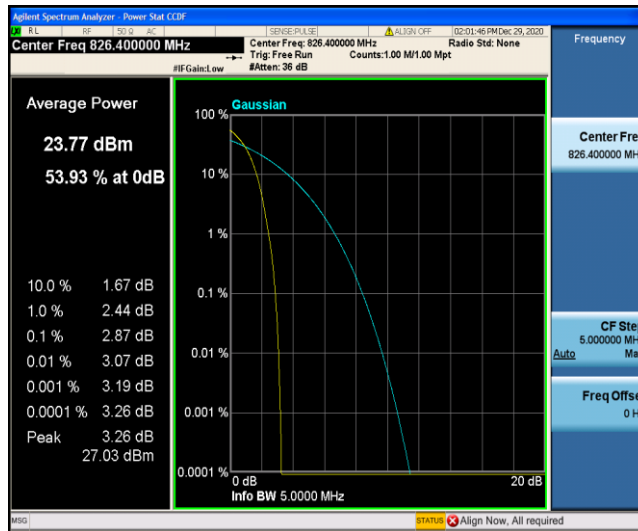
Band II_9262



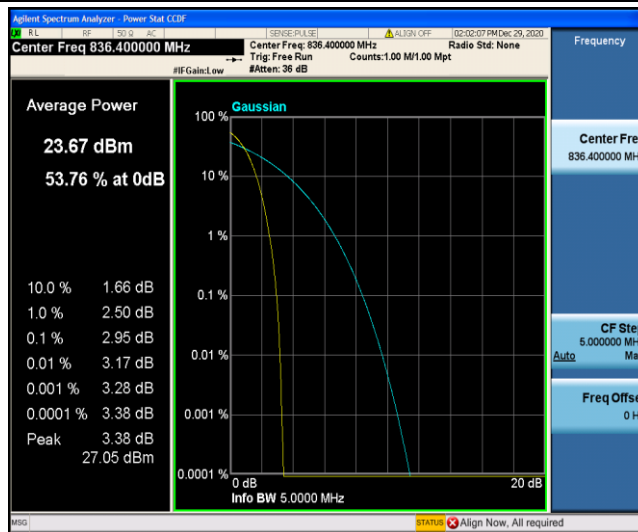
Band II_9400



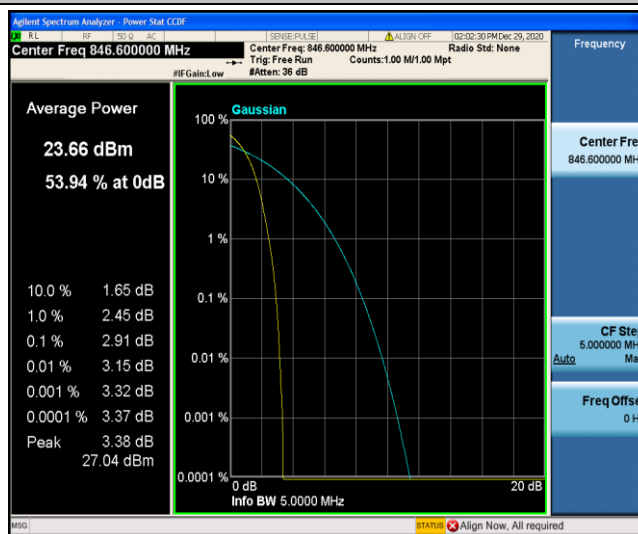
Band II_9538



Band V_4132



Band V_4182



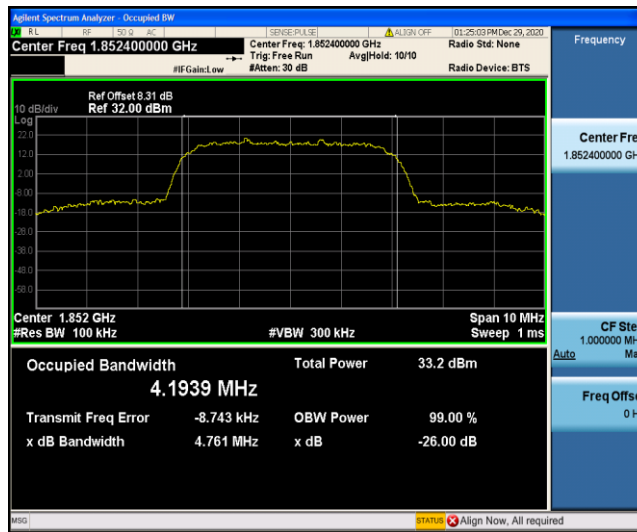
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

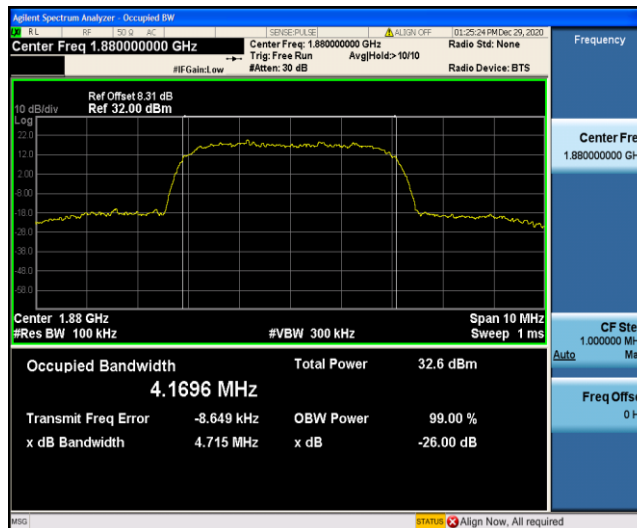
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4193.9	4761	---	PASS
Band II	9400	4169.6	4715	---	PASS
Band II	9538	4174.9	4715	---	PASS
Band V	4132	4156.3	4691	---	PASS
Band V	4182	4158.2	4690	---	PASS
Band V	4233	4147.6	4695	---	PASS

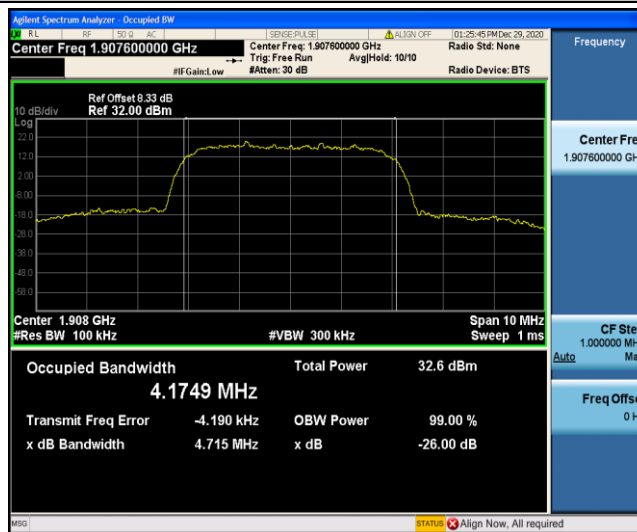
Test Graphs



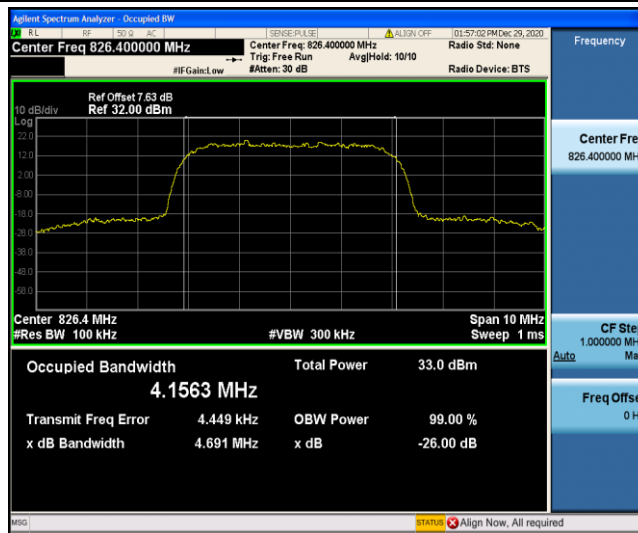
Band II_9262



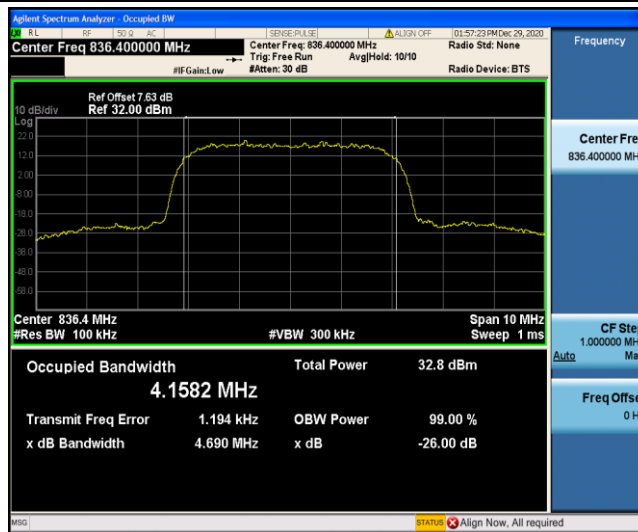
Band II_9400



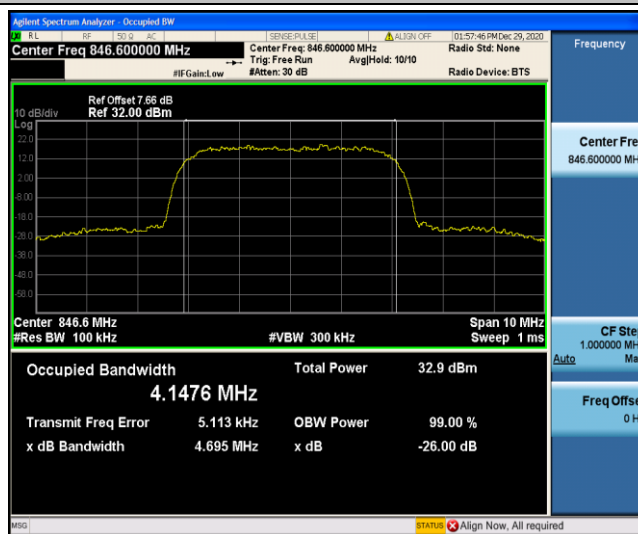
Band II_9538



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	-15.94	-13	PASS
Band II	9538	-20.81	-13	PASS
Band V	4132	-21.76	-13	PASS
Band V	4233	-23.80	-13	PASS

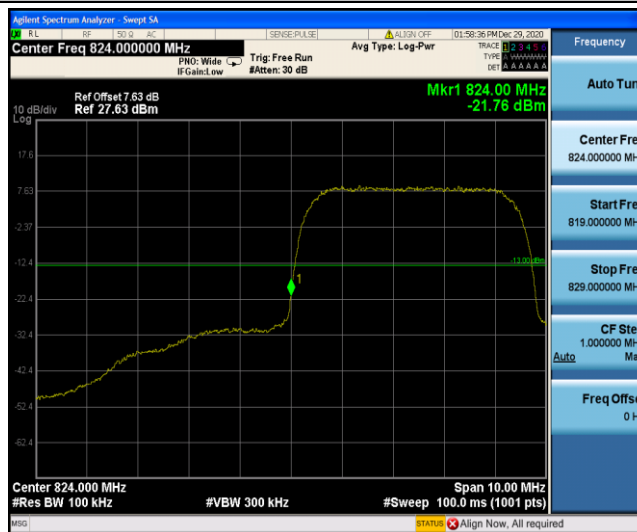
Test Graphs



Band II_9262



Band II_9538



Band V_4132



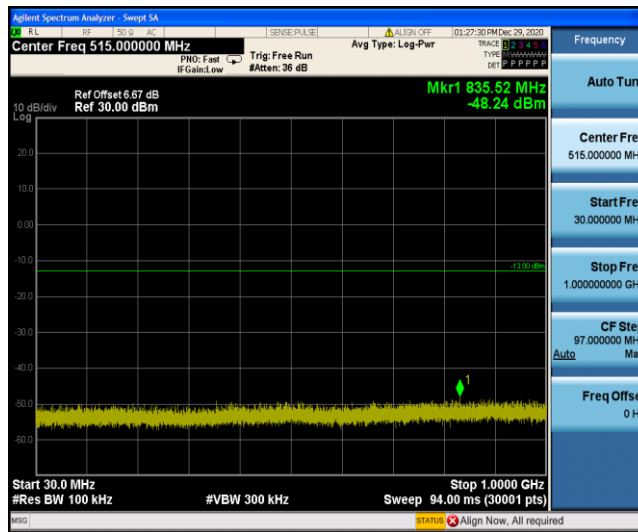
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-48.24	-13	PASS
Band II	9262	1000~20000	-26.60	-13	PASS
Band II	9400	30~1000	-47.93	-13	PASS
Band II	9400	1000~20000	-26.67	-13	PASS
Band II	9538	30~1000	-47.71	-13	PASS
Band II	9538	1000~20000	-26.70	-13	PASS
Band V	4132	30~1000	-47.62	-13	PASS
Band V	4132	1000~10000	-32.59	-13	PASS
Band V	4182	30~1000	-47.97	-13	PASS
Band V	4182	1000~10000	-32.99	-13	PASS
Band V	4233	30~1000	-48.14	-13	PASS
Band V	4233	1000~10000	-33.12	-13	PASS

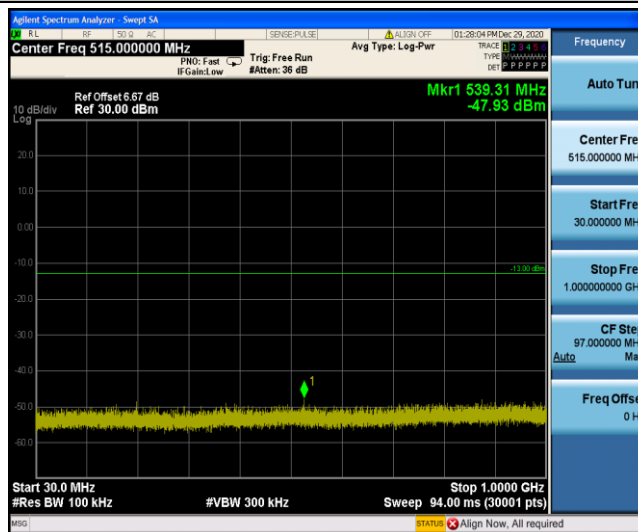
Test Graphs



Band II_9262



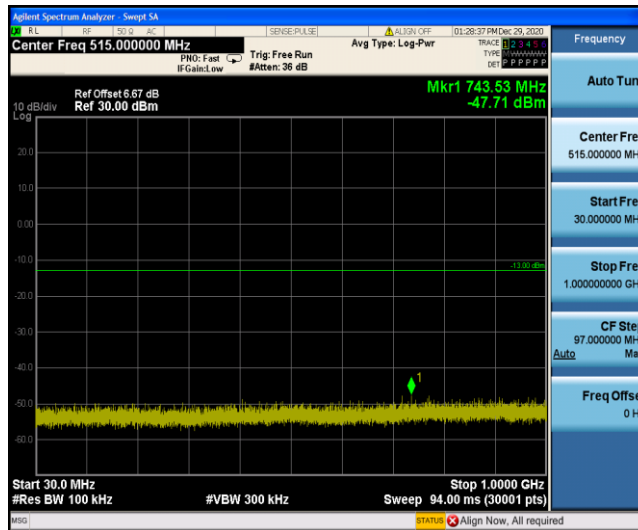
Band II_9262



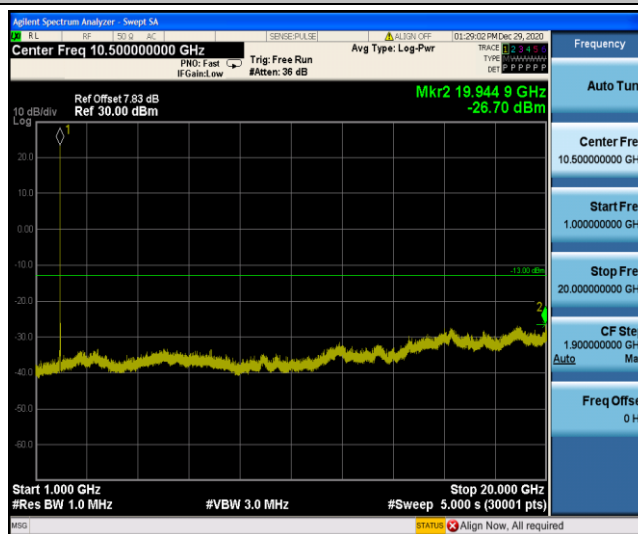
Band II_9400



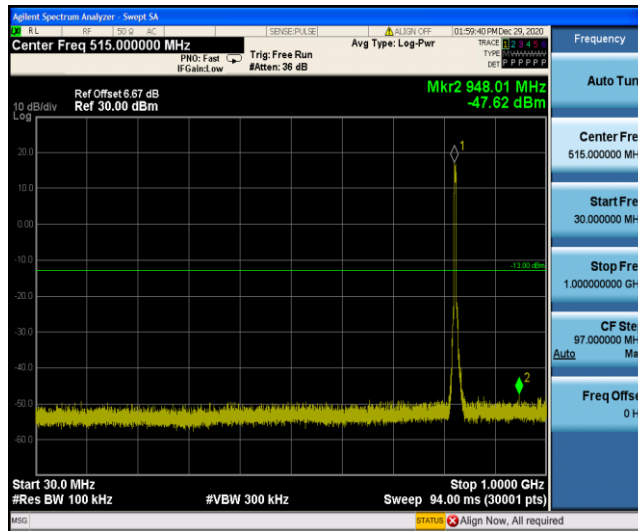
Band II_9400



Band II_9538



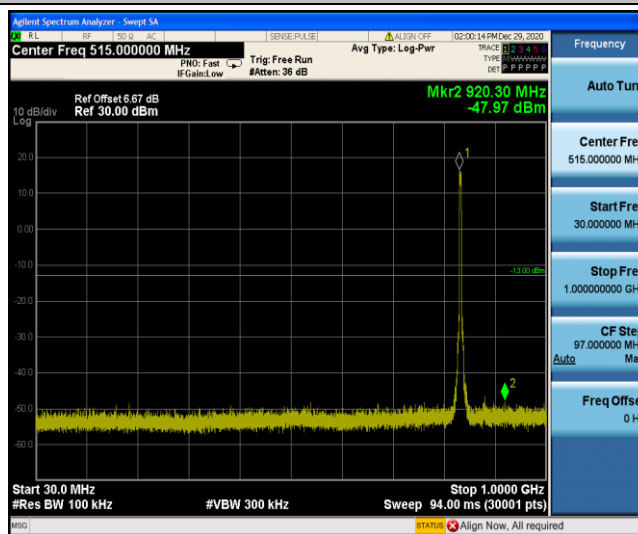
Band II_9538



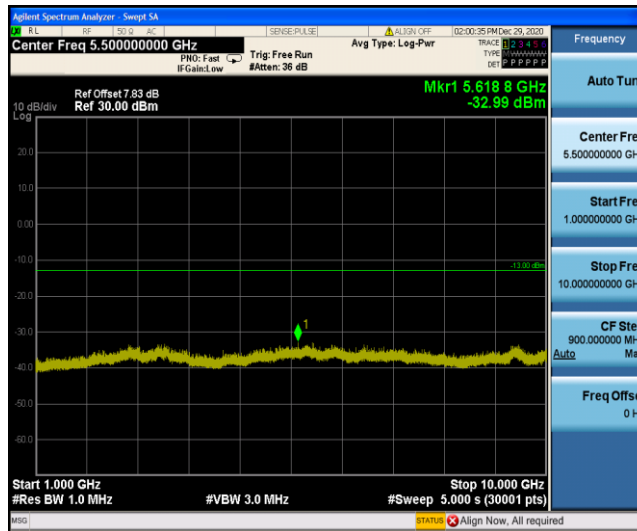
Band V_4132



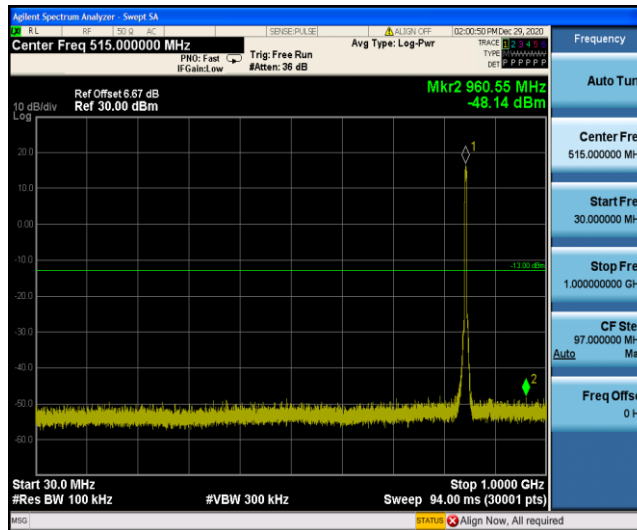
Band V_4132



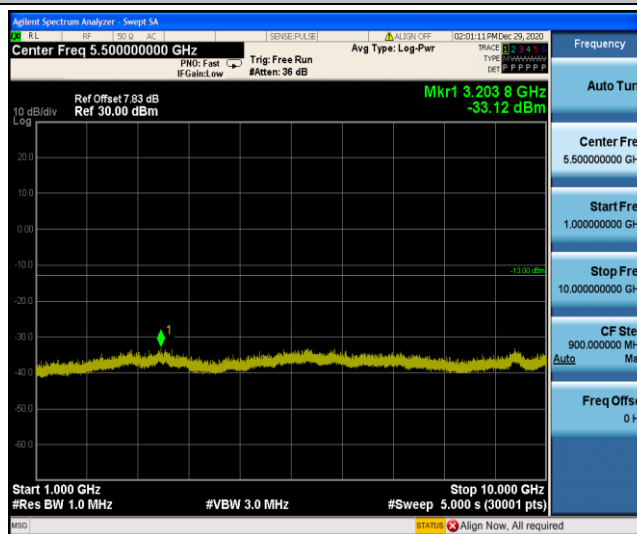
Band V_4182



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	-1.52	-0.000821	2.5	PASS
Band II	9262	VN	TN	-0.13	-0.000070	2.5	PASS
Band II	9262	VH	TN	2.40	0.001296	2.5	PASS
Band II	9400	VL	TN	-2.17	-0.001154	2.5	PASS
Band II	9400	VN	TN	-2.57	-0.001367	2.5	PASS
Band II	9400	VH	TN	-1.19	-0.000633	2.5	PASS
Band II	9538	VL	TN	0.67	0.000351	2.5	PASS
Band II	9538	VN	TN	-4.36	-0.002286	2.5	PASS
Band II	9538	VH	TN	-2.75	-0.001442	2.5	PASS
Band V	4132	VL	TN	-0.84	-0.001016	2.5	PASS
Band V	4132	VN	TN	-3.56	-0.004308	2.5	PASS
Band V	4132	VH	TN	0.41	0.000496	2.5	PASS
Band V	4182	VL	TN	-0.69	-0.000825	2.5	PASS
Band V	4182	VN	TN	1.01	0.001208	2.5	PASS
Band V	4182	VH	TN	-0.07	-0.000084	2.5	PASS
Band V	4233	VL	TN	1.78	0.002103	2.5	PASS
Band V	4233	VN	TN	1.37	0.001618	2.5	PASS
Band V	4233	VH	TN	2.78	0.003284	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-0.29	-0.000157	2.5	PASS
Band II	9262	VN	-20	2.61	0.001409	2.5	PASS
Band II	9262	VN	-10	-0.67	-0.000362	2.5	PASS
Band II	9262	VN	0	-3.30	-0.001781	2.5	PASS
Band II	9262	VN	10	-0.12	-0.000065	2.5	PASS
Band II	9262	VN	20	-0.87	-0.000470	2.5	PASS
Band II	9262	VN	30	3.45	0.001862	2.5	PASS
Band II	9262	VN	40	-0.04	-0.000022	2.5	PASS
Band II	9262	VN	50	-2.15	-0.001161	2.5	PASS
Band II	9400	VN	-30	0.04	0.000021	2.5	PASS
Band II	9400	VN	-20	-1.48	-0.000787	2.5	PASS
Band II	9400	VN	-10	-1.28	-0.000681	2.5	PASS
Band II	9400	VN	0	-0.01	-0.000005	2.5	PASS
Band II	9400	VN	10	-0.35	-0.000186	2.5	PASS
Band II	9400	VN	20	-0.55	-0.000293	2.5	PASS
Band II	9400	VN	30	-2.73	-0.001452	2.5	PASS
Band II	9400	VN	40	1.29	0.000686	2.5	PASS
Band II	9400	VN	50	0.71	0.000378	2.5	PASS
Band II	9538	VN	-30	0.49	0.000257	2.5	PASS
Band II	9538	VN	-20	1.39	0.000729	2.5	PASS
Band II	9538	VN	-10	1.59	0.000834	2.5	PASS
Band II	9538	VN	0	-1.90	-0.000996	2.5	PASS
Band II	9538	VN	10	1.57	0.000823	2.5	PASS
Band II	9538	VN	20	-1.53	-0.000802	2.5	PASS
Band II	9538	VN	30	-1.38	-0.000723	2.5	PASS
Band II	9538	VN	40	0.97	0.000508	2.5	PASS
Band II	9538	VN	50	-0.87	-0.000456	2.5	PASS
Band V	4132	VN	-30	-2.31	-0.002795	2.5	PASS
Band V	4132	VN	-20	-1.82	-0.002202	2.5	PASS
Band V	4132	VN	-10	-1.44	-0.001742	2.5	PASS
Band V	4132	VN	0	-1.21	-0.001464	2.5	PASS
Band V	4132	VN	10	-1.39	-0.001682	2.5	PASS
Band V	4132	VN	20	-2.36	-0.002856	2.5	PASS
Band V	4132	VN	30	0.32	0.000387	2.5	PASS
Band V	4132	VN	40	-0.18	-0.000218	2.5	PASS
Band V	4132	VN	50	-2.68	-0.003243	2.5	PASS
Band V	4182	VN	-30	2.57	0.003073	2.5	PASS
Band V	4182	VN	-20	0.24	0.000287	2.5	PASS
Band V	4182	VN	-10	0.61	0.000729	2.5	PASS
Band V	4182	VN	0	1.72	0.002056	2.5	PASS
Band V	4182	VN	10	2.17	0.002594	2.5	PASS
Band V	4182	VN	20	0.34	0.000407	2.5	PASS
Band V	4182	VN	30	-0.04	-0.000048	2.5	PASS
Band V	4182	VN	40	-0.64	-0.000765	2.5	PASS
Band V	4182	VN	50	0.26	0.000311	2.5	PASS
Band V	4233	VN	-30	0.63	0.000744	2.5	PASS

Band V	4233	VN	-20	0.16	0.000189	2.5	PASS
Band V	4233	VN	-10	0.38	0.000449	2.5	PASS
Band V	4233	VN	0	1.70	0.002008	2.5	PASS
Band V	4233	VN	10	0.49	0.000579	2.5	PASS
Band V	4233	VN	20	-0.39	-0.000461	2.5	PASS
Band V	4233	VN	30	0.09	0.000106	2.5	PASS
Band V	4233	VN	40	-1.12	-0.001323	2.5	PASS
Band V	4233	VN	50	2.24	0.002646	2.5	PASS

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