

APPENDIX REPORT

Project No.	SHT2211001301EW	Radio Specification	WCDMA
Test sample No.	YPHT22110013001	Model No.	Power K 4G
Start test date	2022/11/7	Finish date	2022/11/7
Temperature	24.8℃	Humidity	36%
Test Engineer	Tiancheng.Huang	Auditor	Xiaodong Zhe

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	20.18	33	PASS
Band II	9400	20.80	33	PASS
Band II	9538	21.55	33	PASS
Band V	4132	21.48	38.5	PASS
Band V	4182	21.67	38.5	PASS
Band V	4233	21.49	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	19.73	33	PASS
Band II	9262	HSDPA_Sub2	19.62	33	PASS
Band II	9262	HSDPA_Sub3	18.67	33	PASS
Band II	9262	HSDPA_Sub4	18.40	33	PASS
Band II	9400	HSDPA_Sub1	21.08	33	PASS
Band II	9400	HSDPA_Sub2	20.89	33	PASS
Band II	9400	HSDPA_Sub3	19.82	33	PASS
Band II	9400	HSDPA_Sub4	19.53	33	PASS
Band II	9538	HSDPA_Sub1	21.32	33	PASS
Band II	9538	HSDPA_Sub2	21.19	33	PASS
Band II	9538	HSDPA_Sub3	20.31	33	PASS
Band II	9538	HSDPA_Sub4	19.98	33	PASS
Band V	4132	HSDPA_Sub1	22.00	38.5	PASS
Band V	4132	HSDPA_Sub2	21.07	38.5	PASS
Band V	4132	HSDPA_Sub3	20.20	38.5	PASS
Band V	4132	HSDPA_Sub4	19.78	38.5	PASS
Band V	4182	HSDPA_Sub1	22.04	38.5	PASS
Band V	4182	HSDPA_Sub2	19.78	38.5	PASS
Band V	4182	HSDPA_Sub3	20.43	38.5	PASS
Band V	4182	HSDPA_Sub4	20.04	38.5	PASS
Band V	4233	HSDPA_Sub1	21.75	38.5	PASS
Band V	4233	HSDPA_Sub2	20.86	38.5	PASS
Band V	4233	HSDPA_Sub3	20.03	38.5	PASS
Band V	4233	HSDPA_Sub4	19.45	38.5	PASS

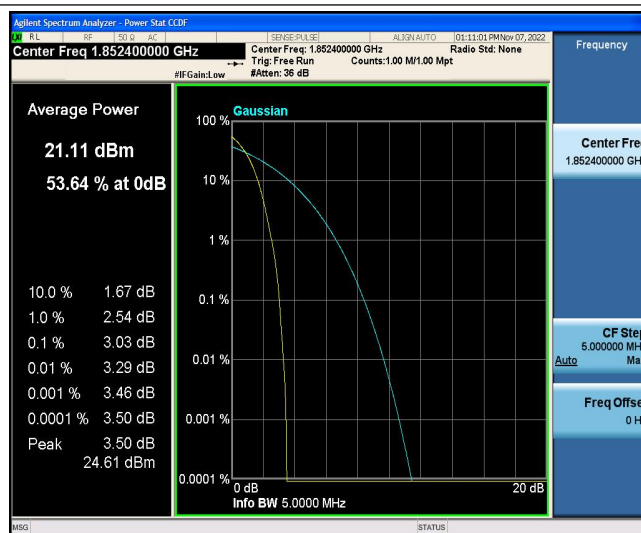
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	16.62	33	PASS
Band II	9262	HSUPA_Sub2	17.01	33	PASS
Band II	9262	HSUPA_Sub3	16.80	33	PASS
Band II	9262	HSUPA_Sub4	17.01	33	PASS
Band II	9262	HSUPA_Sub5	19.01	33	PASS
Band II	9400	HSUPA_Sub1	17.95	33	PASS
Band II	9400	HSUPA_Sub2	18.28	33	PASS
Band II	9400	HSUPA_Sub3	18.08	33	PASS
Band II	9400	HSUPA_Sub4	18.28	33	PASS
Band II	9400	HSUPA_Sub5	20.12	33	PASS
Band II	9538	HSUPA_Sub1	18.55	33	PASS
Band II	9538	HSUPA_Sub2	18.93	33	PASS
Band II	9538	HSUPA_Sub3	18.72	33	PASS
Band II	9538	HSUPA_Sub4	18.97	33	PASS
Band II	9538	HSUPA_Sub5	20.80	33	PASS
Band V	4132	HSUPA_Sub1	18.53	38.5	PASS
Band V	4132	HSUPA_Sub2	18.64	38.5	PASS
Band V	4132	HSUPA_Sub3	18.33	38.5	PASS
Band V	4132	HSUPA_Sub4	18.15	38.5	PASS
Band V	4132	HSUPA_Sub5	21.70	38.5	PASS
Band V	4182	HSUPA_Sub1	19.01	38.5	PASS
Band V	4182	HSUPA_Sub2	19.15	38.5	PASS
Band V	4182	HSUPA_Sub3	6.78	38.5	PASS
Band V	4182	HSUPA_Sub4	18.65	38.5	PASS
Band V	4182	HSUPA_Sub5	22.27	38.5	PASS
Band V	4233	HSUPA_Sub1	18.50	38.5	PASS
Band V	4233	HSUPA_Sub2	18.57	38.5	PASS
Band V	4233	HSUPA_Sub3	18.31	38.5	PASS
Band V	4233	HSUPA_Sub4	18.21	38.5	PASS
Band V	4233	HSUPA_Sub5	21.51	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

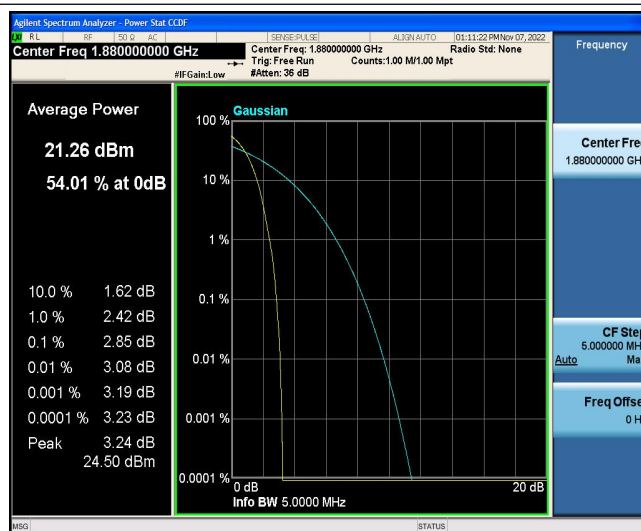
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.03	13	PASS
Band II	9400	2.85	13	PASS
Band II	9538	3.04	13	PASS
Band V	4132	2.92	13	PASS
Band V	4182	3.08	13	PASS
Band V	4233	2.86	13	PASS

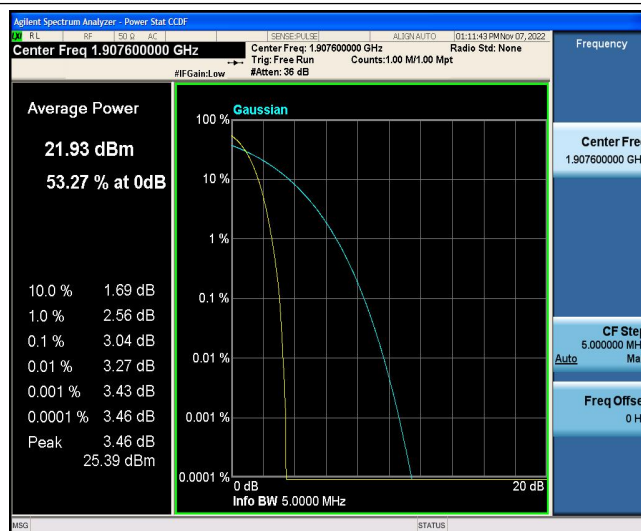
Test Graphs



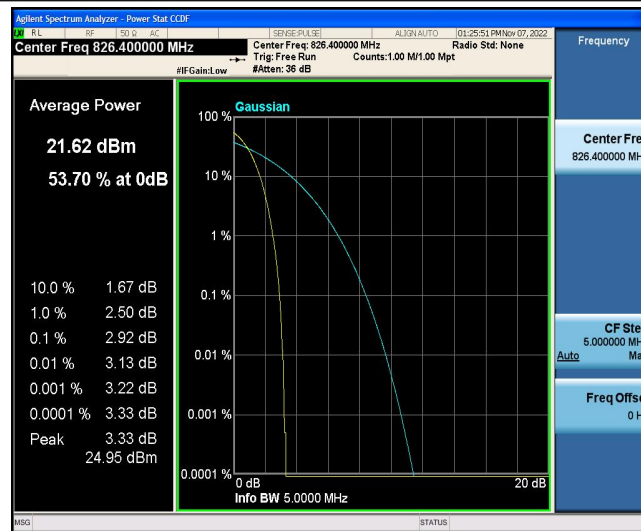
Band II_9262



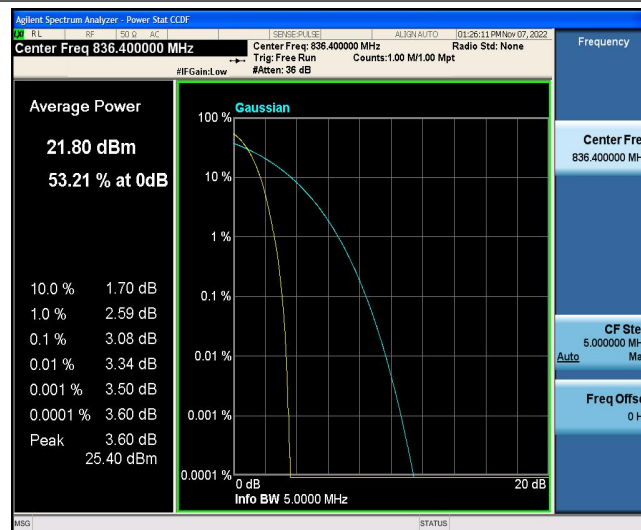
Band II_9400



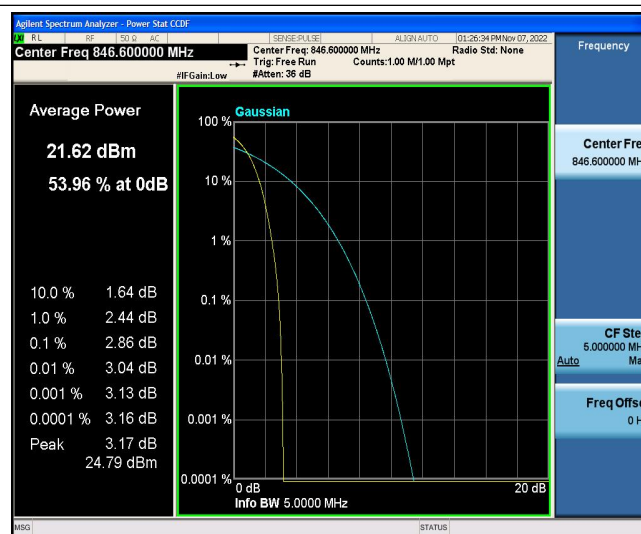
Band II_9538



Band V_4132



Band V_4182



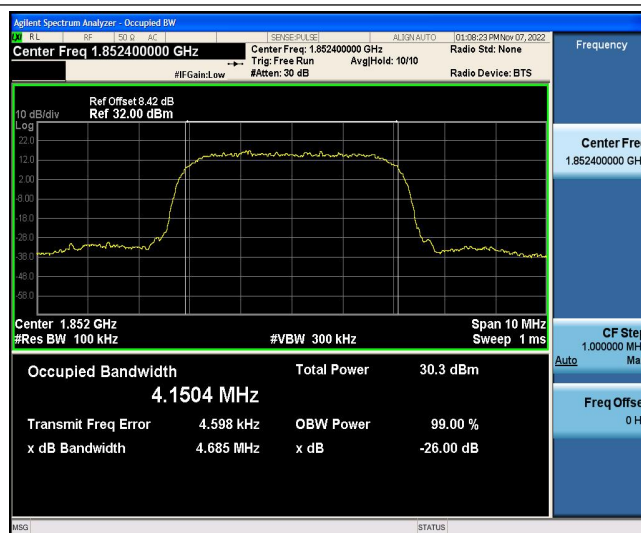
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

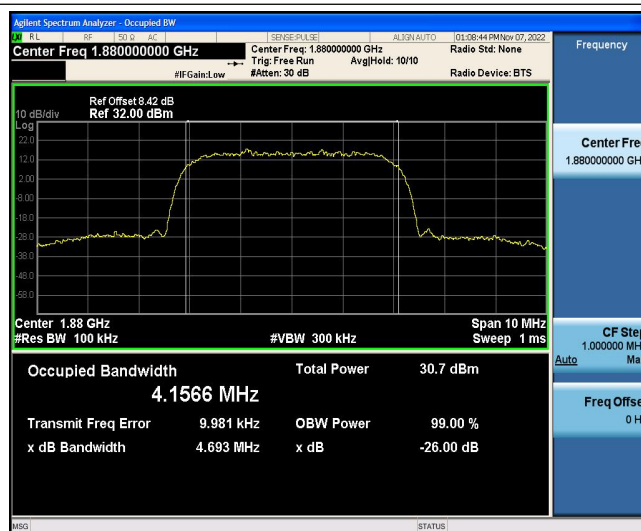
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4150.4	4685	---	PASS
Band II	9400	4156.6	4693	---	PASS
Band II	9538	4141.9	4695	---	PASS
Band V	4132	4141.8	4682	---	PASS
Band V	4182	4153.0	4685	---	PASS
Band V	4233	4156.8	4693	---	PASS

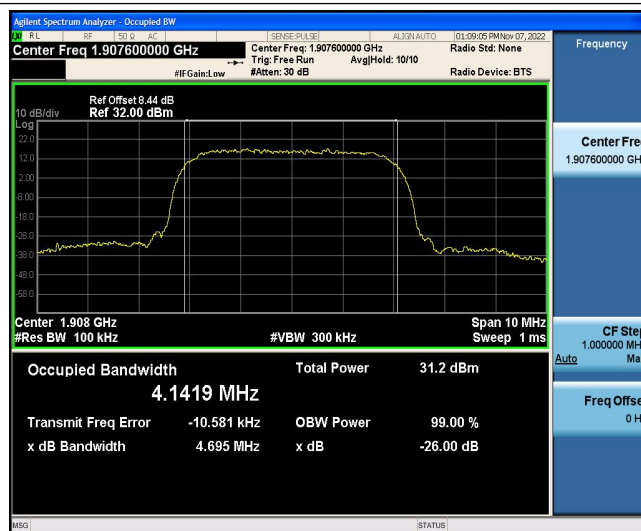
Test Graphs



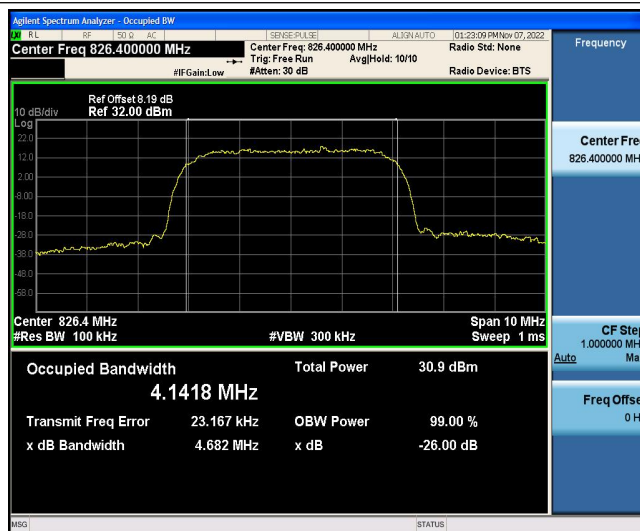
Band II_9262



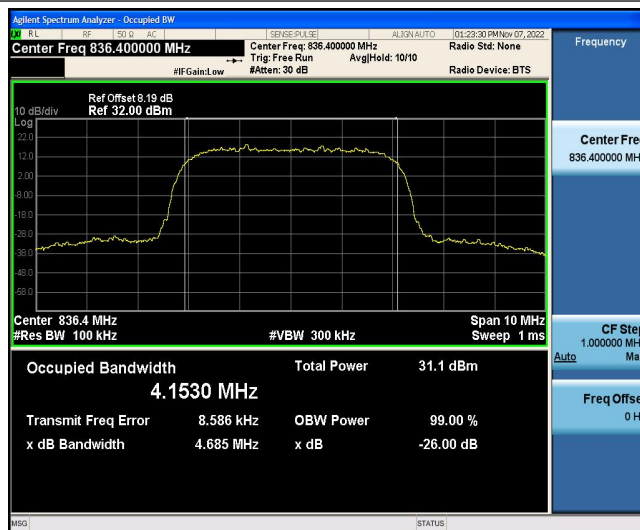
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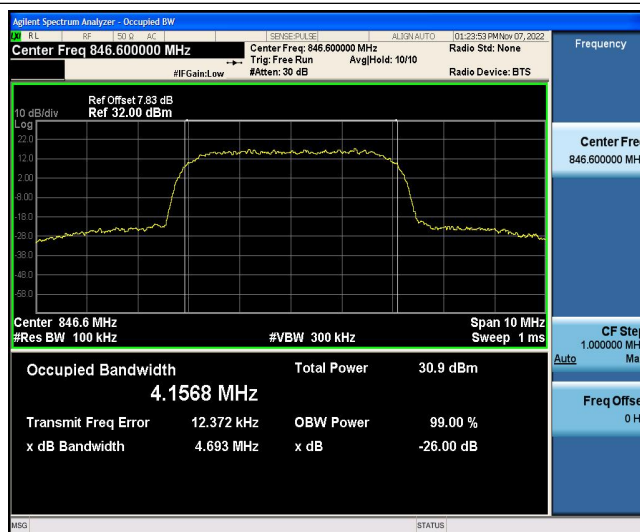
Band II_9538



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	-26.92	-13	PASS
Band II	9538	-27.78	-13	PASS
Band V	4132	-27.54	-13	PASS
Band V	4233	-25.40	-13	PASS

Test Graphs



Band II_9262



Band II_9538



Band V_4132



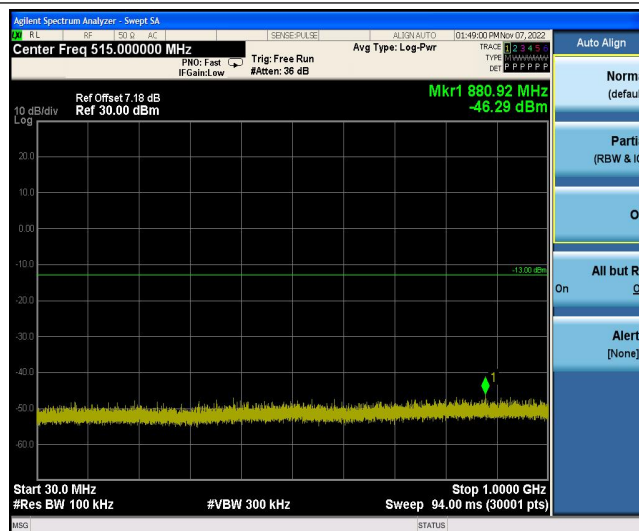
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-46.29	-13	PASS
Band II	9262	1000~20000	-25.74	-13	PASS
Band II	9400	30~1000	-46.05	-13	PASS
Band II	9400	1000~20000	-24.91	-13	PASS
Band II	9538	30~1000	-46.11	-13	PASS
Band II	9538	1000~20000	-25.89	-13	PASS
Band V	4132	30~1000	-46.81	-13	PASS
Band V	4132	1000~10000	-31.81	-13	PASS
Band V	4182	30~1000	-46.89	-13	PASS
Band V	4182	1000~10000	-32.35	-13	PASS
Band V	4233	30~1000	-47.19	-13	PASS
Band V	4233	1000~10000	-32.07	-13	PASS

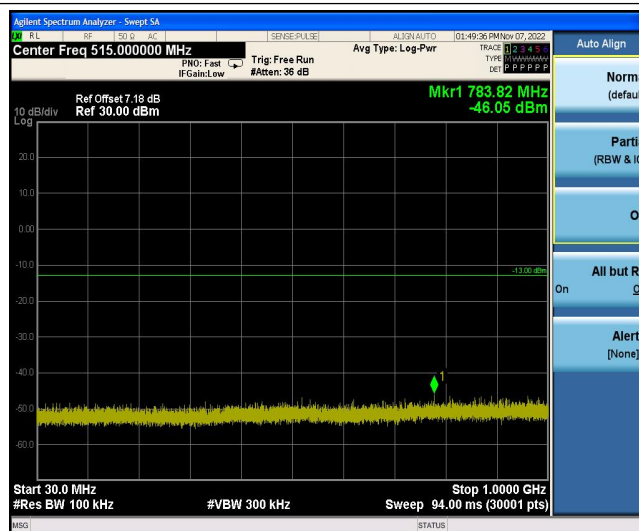
Test Graphs



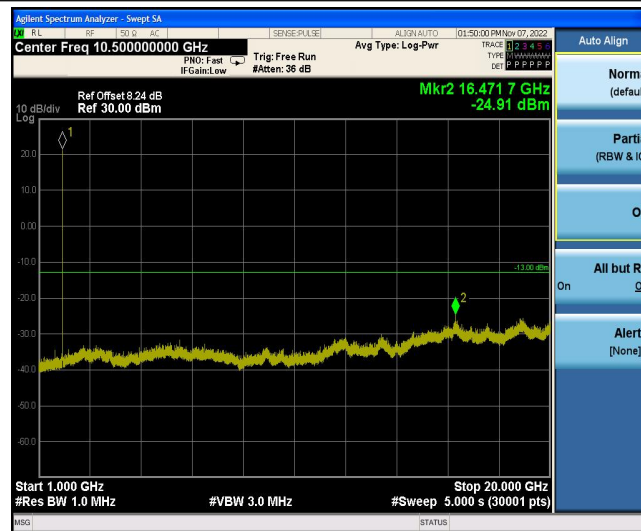
Band II_9262



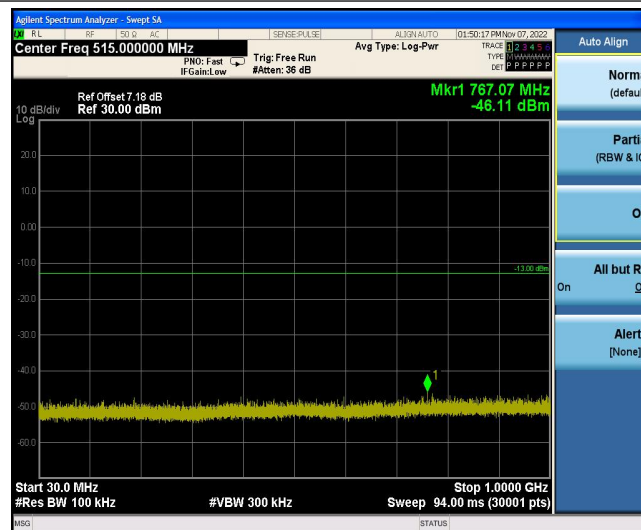
Band II_9262



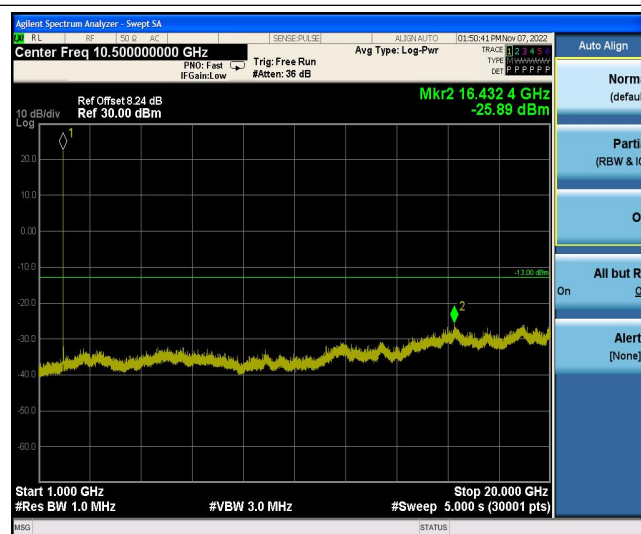
Band II_9400



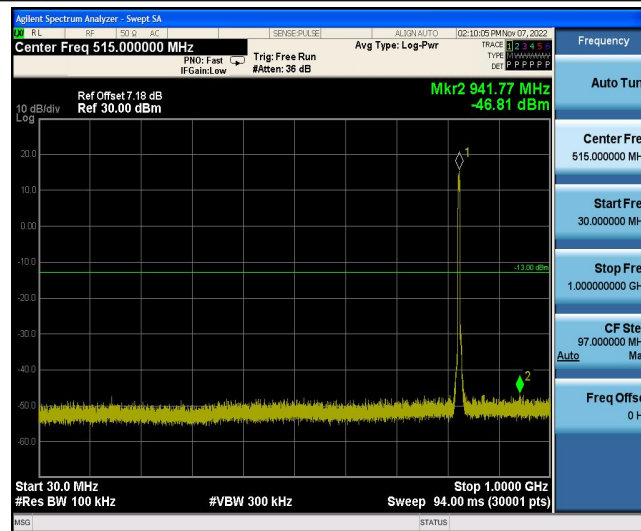
Band II_9400



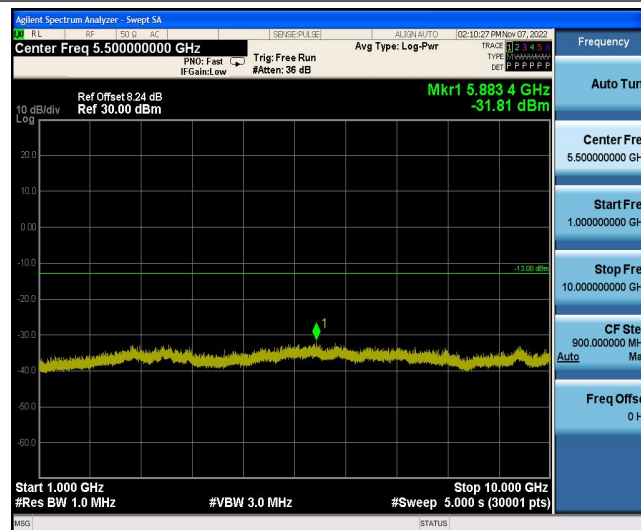
Band II_9538



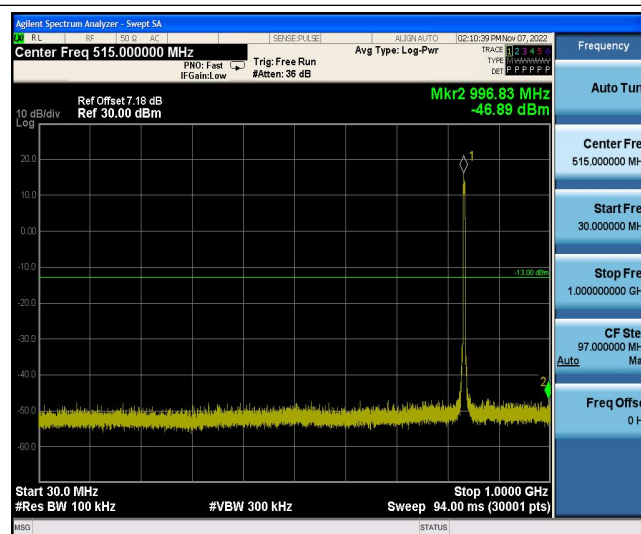
Band II_9538



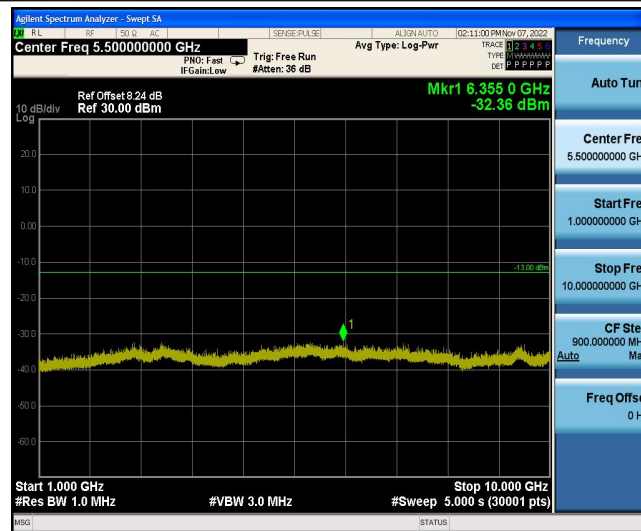
Band V_4132



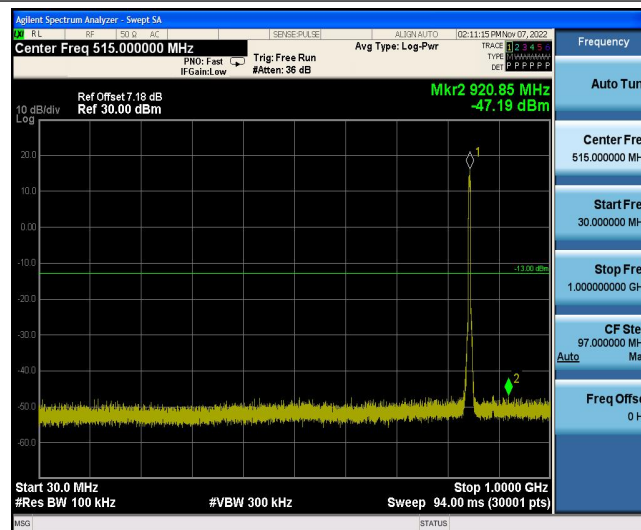
Band V_4132



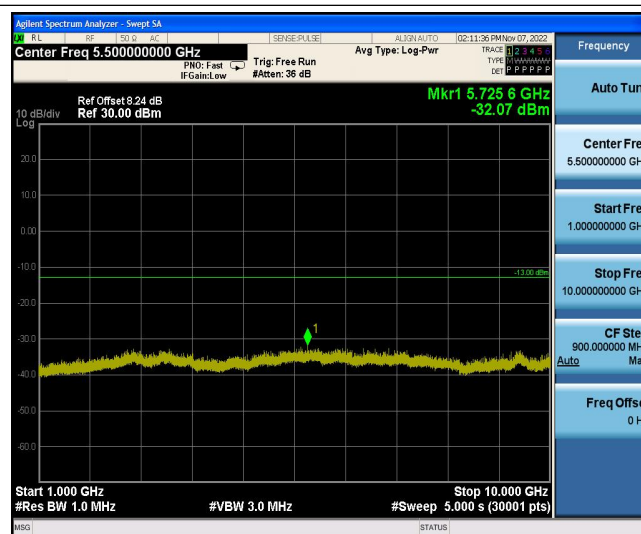
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

Band	Channel	Voltage				Limit (ppm)	Verdict
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
Band II	9262	VL	TN	-6.43	-0.003471	2.5	PASS
Band II	9262	VN	TN	-12.74	-0.006878	2.5	PASS
Band II	9262	VH	TN	-3.65	-0.001970	2.5	PASS
Band II	9400	VL	TN	0.97	0.000516	2.5	PASS
Band II	9400	VN	TN	-4.11	-0.002186	2.5	PASS
Band II	9400	VH	TN	3.60	0.001915	2.5	PASS
Band II	9538	VL	TN	3.00	0.001573	2.5	PASS
Band II	9538	VN	TN	-6.29	-0.003297	2.5	PASS
Band II	9538	VH	TN	-3.66	-0.001919	2.5	PASS
Band V	4132	VL	TN	2.16	0.002614	2.5	PASS
Band V	4132	VN	TN	0.20	0.000242	2.5	PASS
Band V	4132	VH	TN	0.37	0.000448	2.5	PASS
Band V	4182	VL	TN	1.25	0.001495	2.5	PASS
Band V	4182	VN	TN	-0.64	-0.000765	2.5	PASS
Band V	4182	VH	TN	-0.89	-0.001064	2.5	PASS
Band V	4233	VL	TN	3.55	0.004193	2.5	PASS
Band V	4233	VN	TN	-2.42	-0.002858	2.5	PASS
Band V	4233	VH	TN	-1.15	-0.001358	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-2.34	-0.001263	2.5	PASS
Band II	9262	VN	-20	5.13	0.002769	2.5	PASS
Band II	9262	VN	-10	2.40	0.001296	2.5	PASS
Band II	9262	VN	0	3.89	0.002100	2.5	PASS
Band II	9262	VN	10	-5.64	-0.003045	2.5	PASS
Band II	9262	VN	20	-9.77	-0.005274	2.5	PASS
Band II	9262	VN	30	0.26	0.000140	2.5	PASS
Band II	9262	VN	40	-5.31	-0.002867	2.5	PASS
Band II	9262	VN	50	4.33	0.002338	2.5	PASS
Band II	9400	VN	-30	-2.32	-0.001234	2.5	PASS
Band II	9400	VN	-20	0.26	0.000138	2.5	PASS
Band II	9400	VN	-10	4.21	0.002239	2.5	PASS
Band II	9400	VN	0	5.58	0.002968	2.5	PASS
Band II	9400	VN	10	-1.14	-0.000606	2.5	PASS
Band II	9400	VN	20	-3.25	-0.001729	2.5	PASS
Band II	9400	VN	30	-0.43	-0.000229	2.5	PASS
Band II	9400	VN	40	-2.65	-0.001410	2.5	PASS
Band II	9400	VN	50	-2.52	-0.001340	2.5	PASS
Band II	9538	VN	-30	5.40	0.002831	2.5	PASS
Band II	9538	VN	-20	-10.18	-0.005337	2.5	PASS
Band II	9538	VN	-10	-5.29	-0.002773	2.5	PASS
Band II	9538	VN	0	3.40	0.001782	2.5	PASS
Band II	9538	VN	10	-2.00	-0.001048	2.5	PASS
Band II	9538	VN	20	-5.97	-0.003130	2.5	PASS
Band II	9538	VN	30	1.92	0.001007	2.5	PASS
Band II	9538	VN	40	2.25	0.001179	2.5	PASS
Band II	9538	VN	50	-1.87	-0.000980	2.5	PASS
Band V	4132	VN	-30	1.22	0.001476	2.5	PASS
Band V	4132	VN	-20	0.83	0.001004	2.5	PASS
Band V	4132	VN	-10	1.56	0.001888	2.5	PASS
Band V	4132	VN	0	1.15	0.001392	2.5	PASS
Band V	4132	VN	10	0.09	0.000109	2.5	PASS
Band V	4132	VN	20	4.81	0.005820	2.5	PASS
Band V	4132	VN	30	2.32	0.002807	2.5	PASS
Band V	4132	VN	40	1.17	0.001416	2.5	PASS
Band V	4132	VN	50	0.57	0.000690	2.5	PASS
Band V	4182	VN	-30	-1.32	-0.001578	2.5	PASS
Band V	4182	VN	-20	1.29	0.001542	2.5	PASS
Band V	4182	VN	-10	-0.93	-0.001112	2.5	PASS
Band V	4182	VN	0	-2.64	-0.003156	2.5	PASS
Band V	4182	VN	10	-4.59	-0.005488	2.5	PASS
Band V	4182	VN	20	-0.14	-0.000167	2.5	PASS
Band V	4182	VN	30	-0.59	-0.000705	2.5	PASS
Band V	4182	VN	40	-0.49	-0.000586	2.5	PASS
Band V	4182	VN	50	-1.62	-0.001937	2.5	PASS
Band V	4233	VN	-30	0.16	0.000189	2.5	PASS

Band V	4233	VN	-20	-0.54	-0.000638	2.5	PASS
Band V	4233	VN	-10	-2.80	-0.003307	2.5	PASS
Band V	4233	VN	0	0.52	0.000614	2.5	PASS
Band V	4233	VN	10	1.83	0.002162	2.5	PASS
Band V	4233	VN	20	-0.87	-0.001028	2.5	PASS
Band V	4233	VN	30	0.55	0.000650	2.5	PASS
Band V	4233	VN	40	2.08	0.002457	2.5	PASS
Band V	4233	VN	50	-0.32	-0.000378	2.5	PASS

8.7 Appendix G: ERP and EIRP

Test Result

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
Band II	WCDMA	21.55	1.70	23.25	0.2113	2	PASS
	HSDPA	21.32	1.70	23.02	0.2004	2	PASS
	HSUPA	20.80	1.70	22.50	0.1778	2	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
Band V	WCDMA	21.67	-0.60	18.92	0.0780	7	PASS
	HSDPA	22.04	-0.60	19.29	0.0849	7	PASS
	HSUPA	22.27	-0.60	19.52	0.0895	7	PASS

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