



Appendix A

RF Test Data for 5.2G (Conducted Measurement)

Product Name: PRO Z

Test Model: 7118+3118

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



A.1 Emission Bandwidth

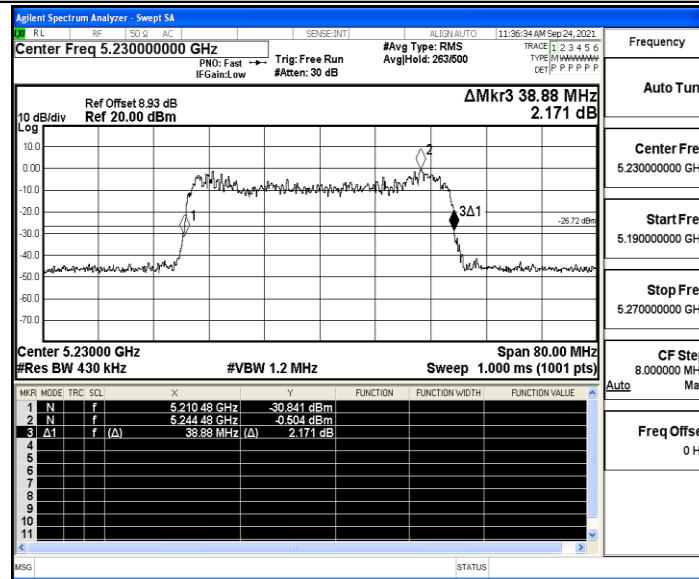
Test Result

Modulation Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
OFDM	Ant 1	5230	38.880	5210.480	5249.360	---	PASS
OFDM	Ant 2	5230	38.880	5210.560	5249.440	---	PASS

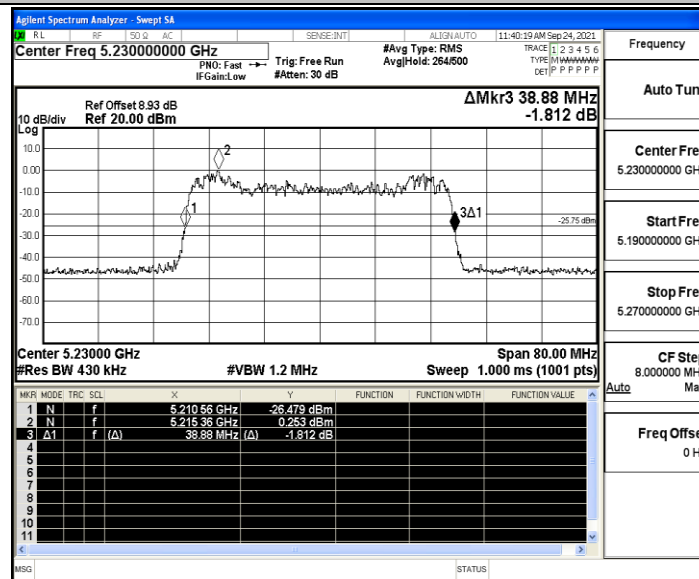


Test Graphs

Ant1_5230



Ant2_5230





A.2 Maximum conducted output power

Test Result

Modulation Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
OFDM	Ant1	5230	14.37	≤ 30.00	PASS
OFDM	Ant2	5230	14.32	≤ 30.00	PASS
OFDM	Ant1+ Ant2	5230	17.36	≤ 30.00	PASS



A.3 Maximum power spectral density

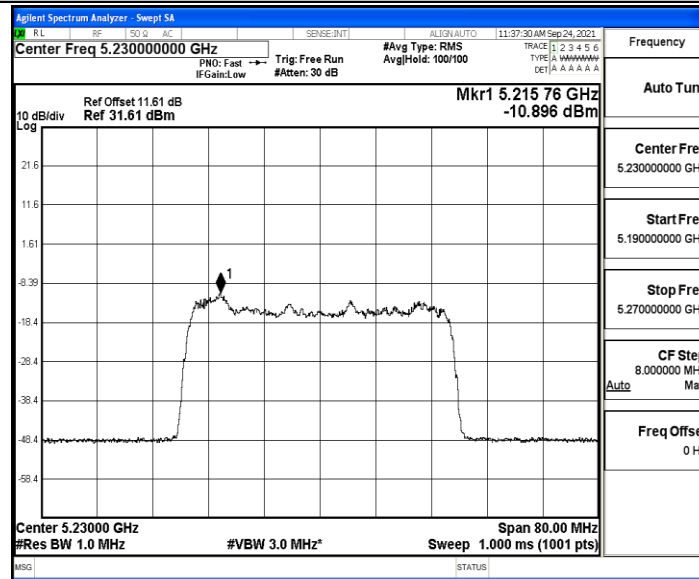
Test Result

Modulation Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
OFDM	Ant1	5230	-10.90	≤ 17	PASS
OFDM	Ant2	5230	-13.07	≤ 17	PASS
OFDM	Ant1+ Ant2	5230	-8.84	≤ 14.99	PASS

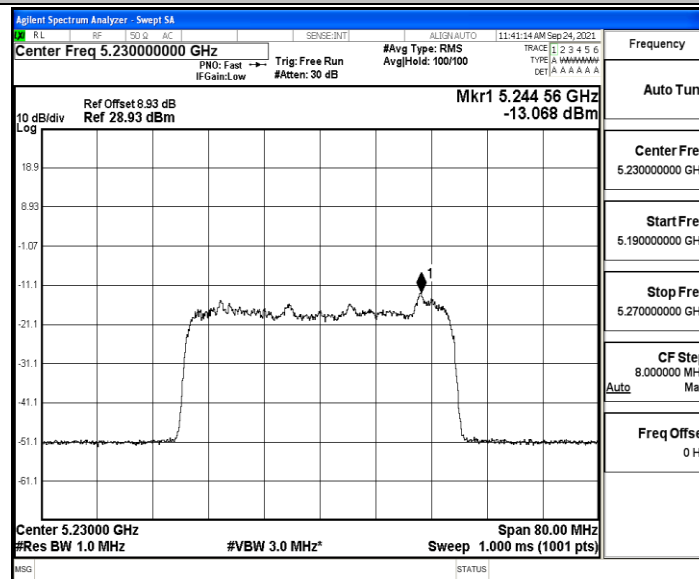


Test Graphs

Ant1_5230



Ant2_5230





A.4 Emissions in Restricted Bands

Test Result

Modulation Mode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
OFDM	Ant1	5230	AV	5350.000	-47.9	≤ -41.20	46.87	≤ 54	PASS
			AV	5381.480	-47.71	≤ -41.20	46.91	≤ 54	PASS
			AV	5460.000	-47.91	≤ -41.20	46.77	≤ 54	PASS
			Peak	5350.000	-40.07	≤ -21.20	52.62	≤ 68.2	PASS
			Peak	5373.420	-37.92	≤ -21.20	55.93	≤ 68.2	PASS
			Peak	5460.000	-39.5	≤ -21.20	53.77	≤ 68.2	PASS
OFDM	Ant2	5230	AV	5350.000	-48.28	≤ -41.20	46.82	≤ 54	PASS
			AV	5400.980	-48.23	≤ -41.20	46.86	≤ 54	PASS
			AV	5460.000	-48.31	≤ -41.20	46.70	≤ 54	PASS
			Peak	5350.000	-42.39	≤ -21.20	53.31	≤ 68.2	PASS
			Peak	5399.420	-38.29	≤ -21.20	55.52	≤ 68.2	PASS
			Peak	5460.000	-41.07	≤ -21.20	50.90	≤ 68.2	PASS

Antenna 1+ Antenna 2

Modulation Mode	Antenna	Channel	Detector	Freq. [MHz]	Ant1 [dBm]	Ant2 [dBm]	Ant1 + Ant2 [dBm]	Compensated	Result [dBuV/m]	Limit [dBuV/m]	Verdict
OFDM	Ant1+Ant2	5230	AV	5350.000	-47.9	-48.28	-45.08	3.01	53.16	≤ 54	PASS
			AV	5381.480	-47.71	-48.23	-44.95	3.01	53.29	≤ 54	PASS
			AV	5460.000	-47.91	-48.31	-45.10	3.01	53.14	≤ 54	PASS
			Peak	5350.000	-40.07	-42.39	-38.07	3.01	60.17	≤ 68.2	PASS
			Peak	5373.420	-37.92	-38.29	-35.09	3.01	63.15	≤ 68.2	PASS
			Peak	5460.000	-39.5	-41.07	-37.20	3.01	61.04	≤ 68.2	PASS

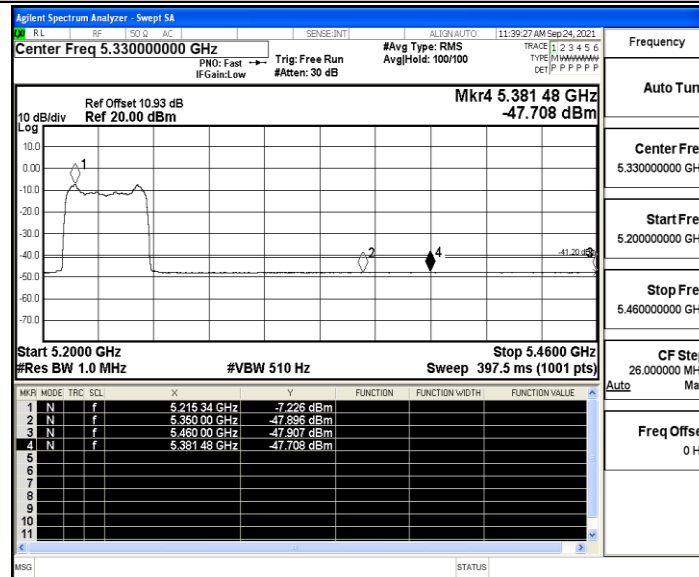
Note:

1. The Antenna Gain is compensated in the graph; for MIMO calculate, need considered $10 \log 2$ compensated.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

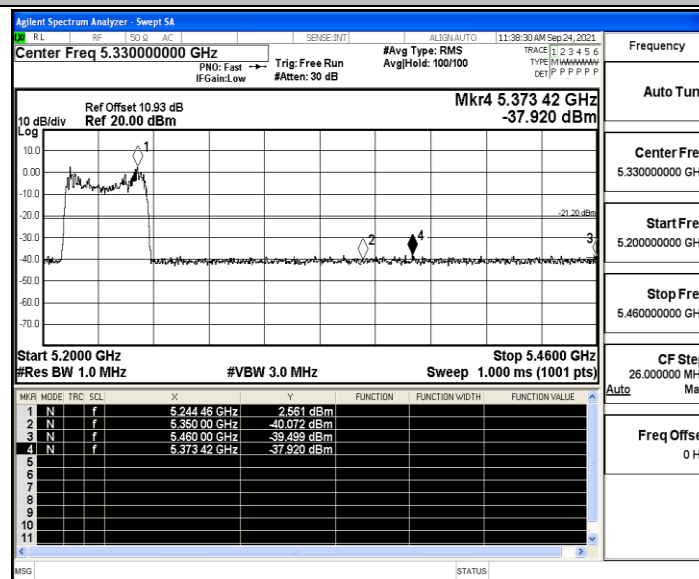


Test Graphs

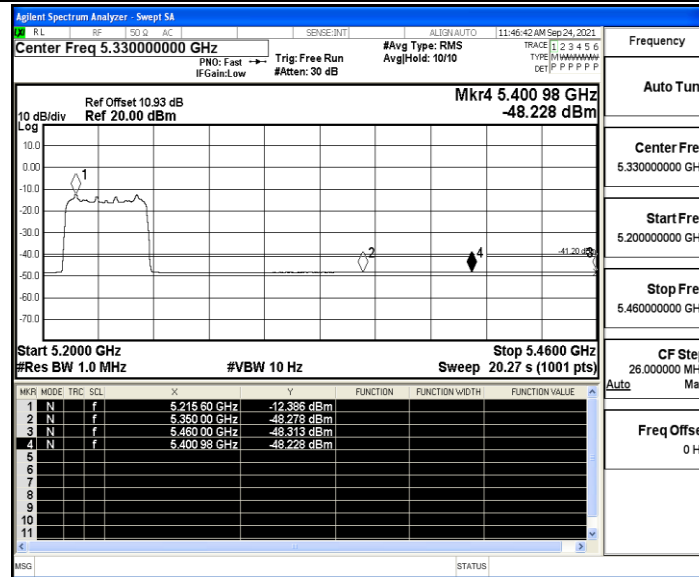
Ant1_Low_5230_AV



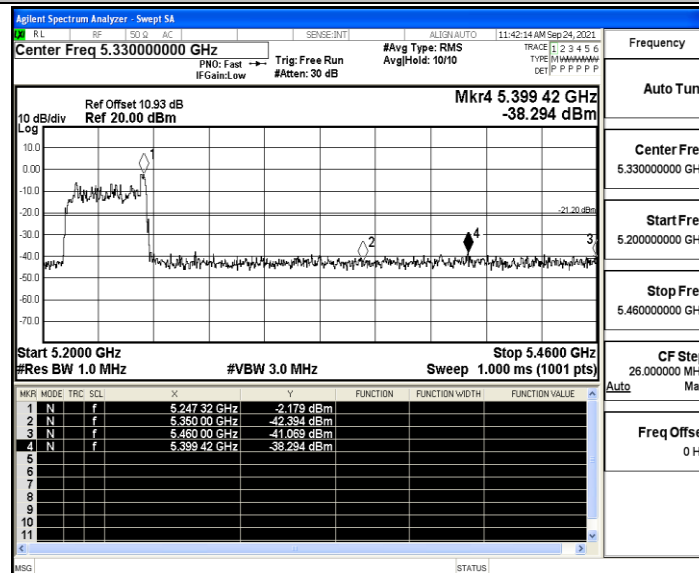
Ant1_Low_5230_Peak



Ant1_Low_5230_AV



Ant1_Low_5230_Peak





A.5 Frequency Stability

Test Result

Modulation Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
OFDM	Ant1	5230	NV	NT	-0.769231	20	PASS
			LV	NT	-0.769231	20	PASS
			HV	NT	-0.769231	20	PASS
OFDM	Ant2	5230	NV	NT	-0.769231	20	PASS
			LV	NT	-0.769231	20	PASS
			HV	NT	-0.769231	20	PASS

Modulation Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
OFDM	Ant1	5230	NV	-30	-0.769231	20	PASS
			NV	-20	-0.769231	20	PASS
			NV	-10	-0.769231	20	PASS
			NV	0	-0.769231	20	PASS
			NV	10	-0.769231	20	PASS
			NV	20	-0.769231	20	PASS
			NV	30	-0.769231	20	PASS
			NV	40	-0.769231	20	PASS
			NV	50	-0.769231	20	PASS
OFDM	Ant1	5230	NV	-30	-0.769231	20	PASS
			NV	-20	-0.769231	20	PASS
			NV	-10	-0.769231	20	PASS
			NV	0	-0.769231	20	PASS
			NV	10	-0.769231	20	PASS
			NV	20	-0.769231	20	PASS
			NV	30	-0.769231	20	PASS
			NV	40	-0.769231	20	PASS
			NV	50	-0.769231	20	PASS



A.6 Duty Cycle

Test Result

Modulation Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
OFDM	Ant1	5230	30.00	30.00	100.00	---	PASS
OFDM	Ant2	5230	30.00	30.00	100.00	---	PASS



Test Graphs

