APPENDIX REPORT

Project No.	SHT2209117101EW	Radio Specification	WIFI 5G
Model No.	C10		
Start test date	2022-10-13	Finish date	2022-10-13
Temperature	24.4℃	Humidity	33%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	26 dB Bandwidth	PASS
D	99% Occupy bandwidth	PASS
E	6 dB Bandwidth	PASS
F	Frequency stability	PASS

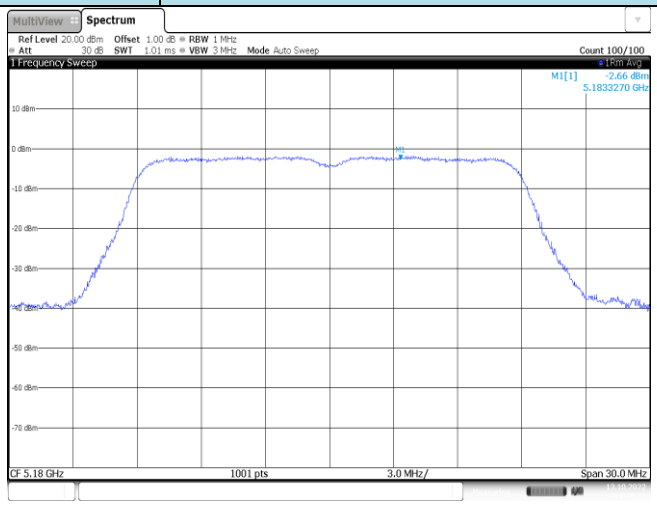
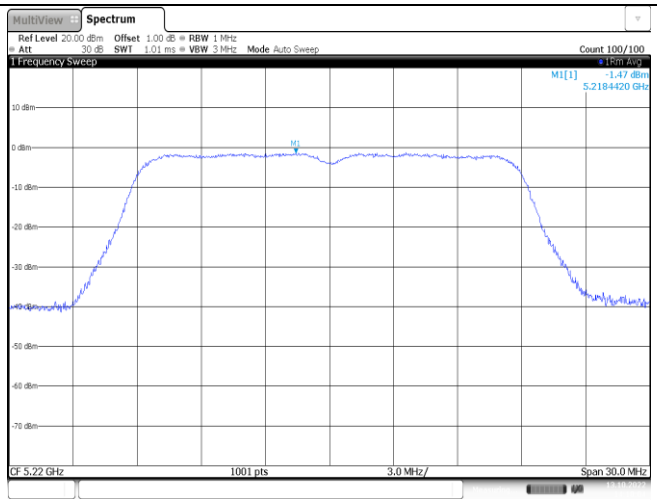
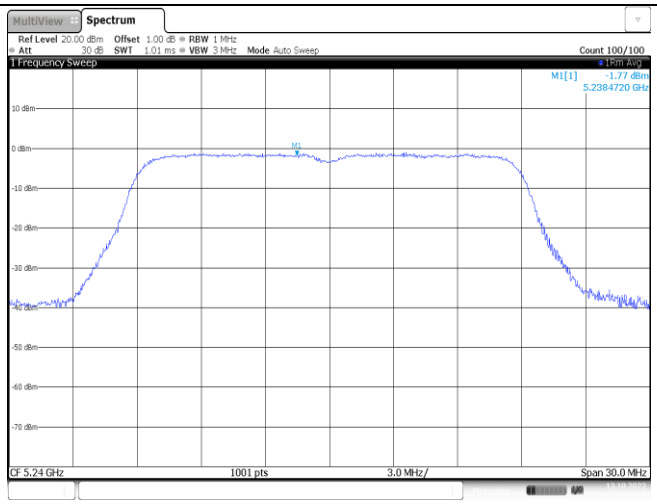
Appendix A：Maximum Conducted Output Power

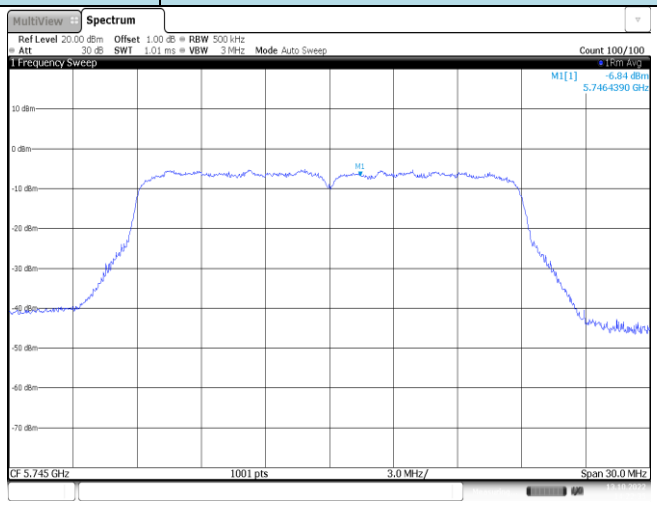
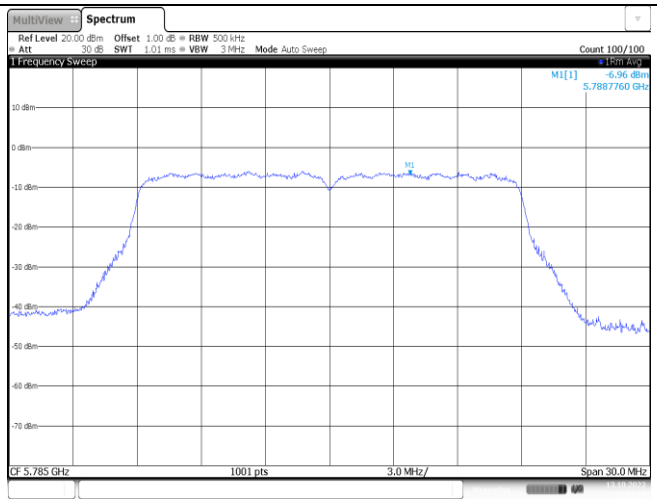
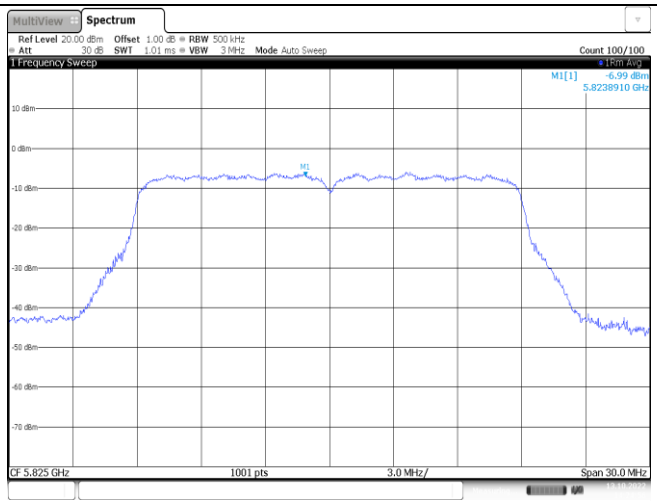
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11n	CH_L	8.22	78.66	1.04	9.26	24.00	Pass
			CH_M	9.62	78.66	1.04	10.66		
			CH_H	10.01	78.66	1.04	11.05		
IV	20	802.11n	CH_L	7.77	78.66	1.04	8.81	30.00	Pass
			CH_M	7.64	78.18	1.07	8.71		
			CH_H	7.90	78.66	1.04	8.94		

NOTE: duty cycle factor =10LOG(1/ duty cycle)

Appendix B：Maximum Power Spectral Density

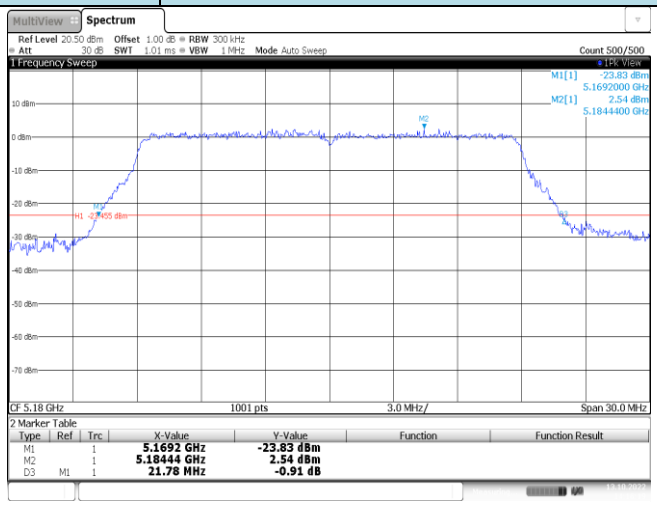
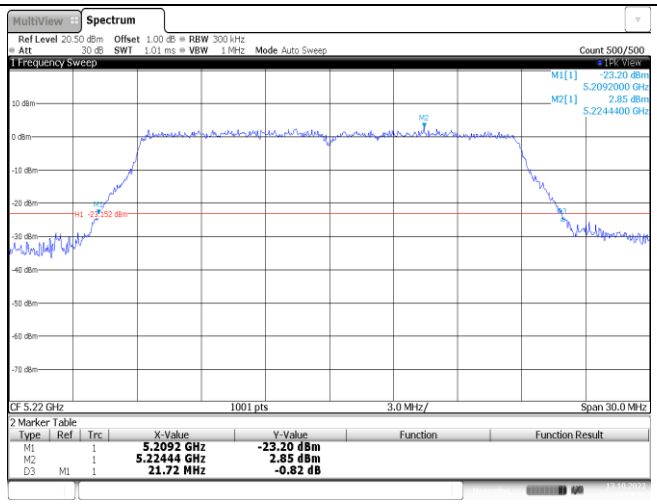
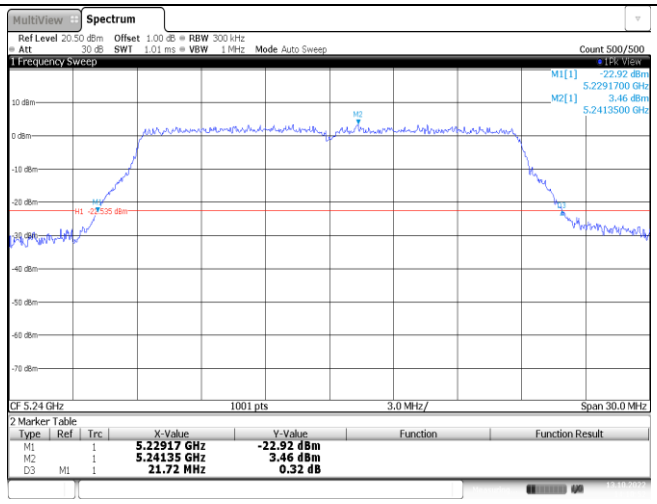
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11n	CH_L	-2.66	78.66	1.04	-1.62	11.00	Pass
			CH_M	-1.47	78.66	1.04	-0.43		
			CH_H	-1.77	78.66	1.04	-0.73		
IV	20	802.11n	CH_L	-6.84	78.66	1.04	-5.80	30.00	Pass
			CH_M	-6.96	78.18	1.07	-5.89		
			CH_H	-6.99	78.66	1.04	-5.95		

Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_M	
CH_H	

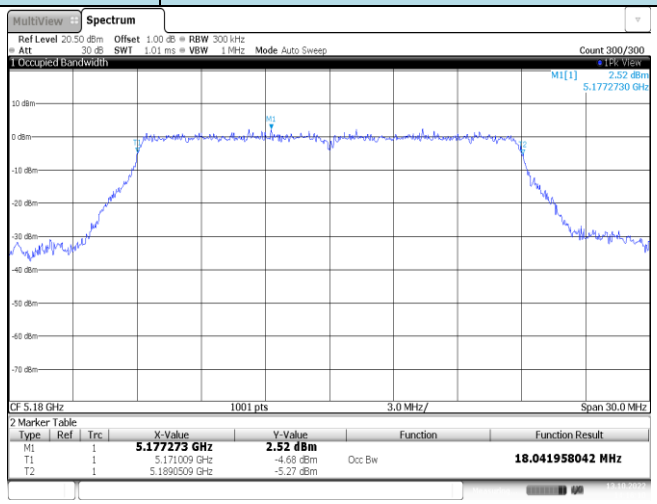
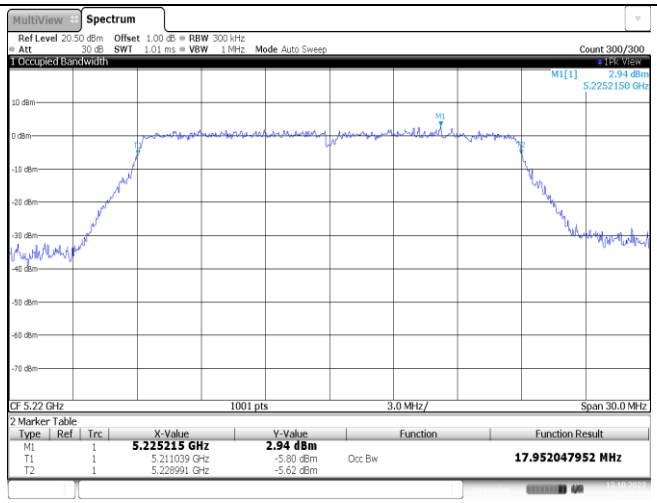
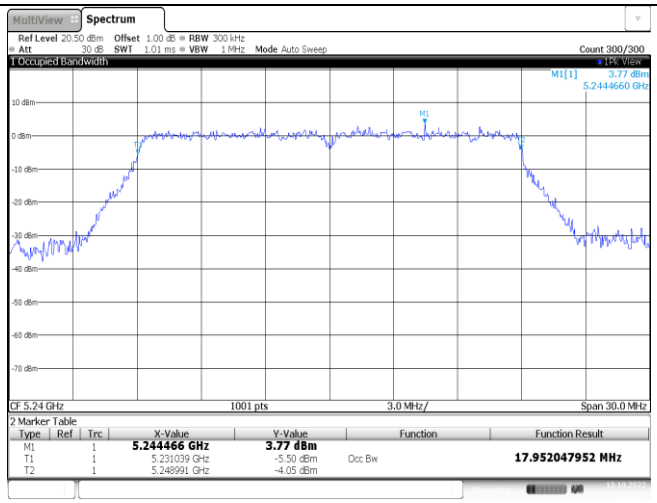
Appendix C：26dB bandwidth

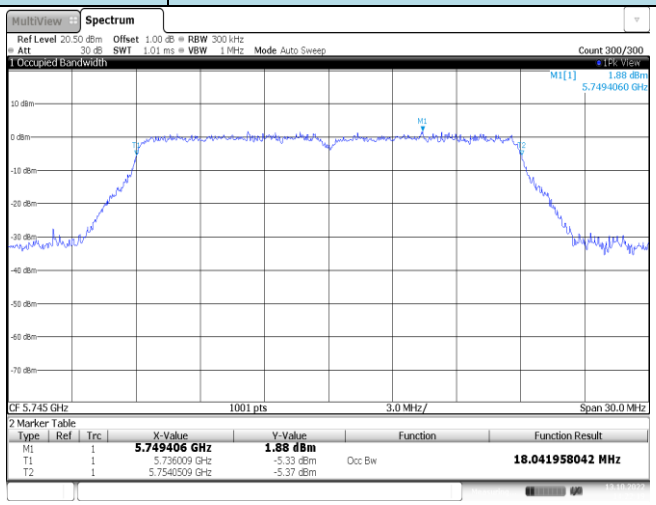
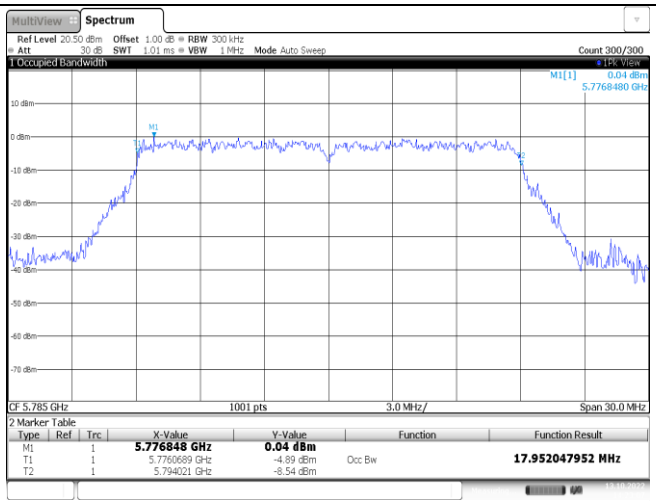
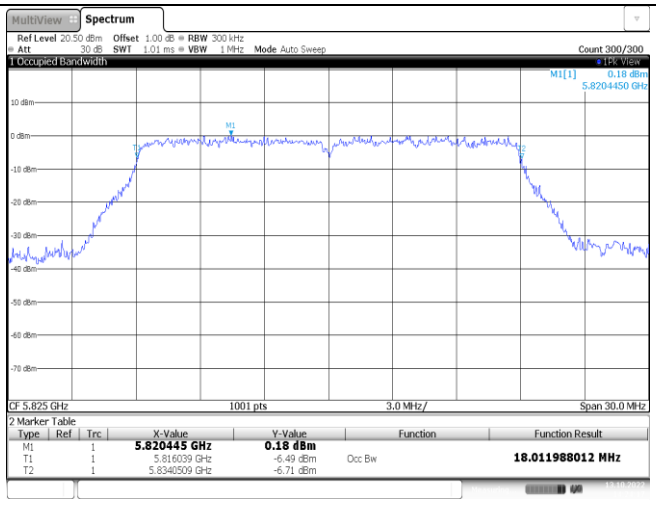
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11n	CH_L	21.78	Pass
			CH_M	21.72	
			CH_H	21.72	

Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Appendix D：99% Occupy bandwidth

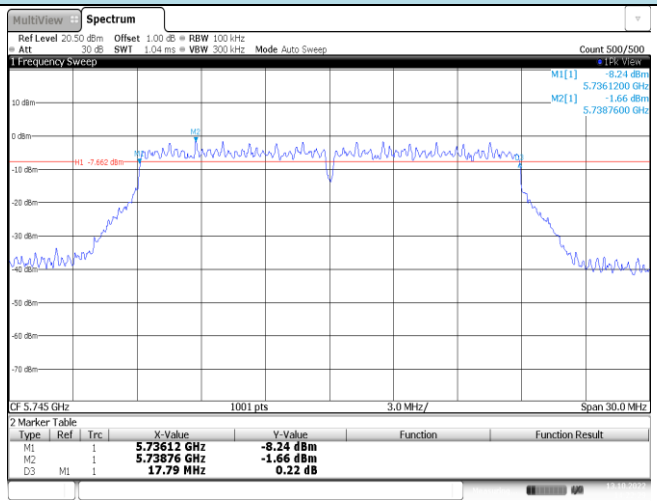
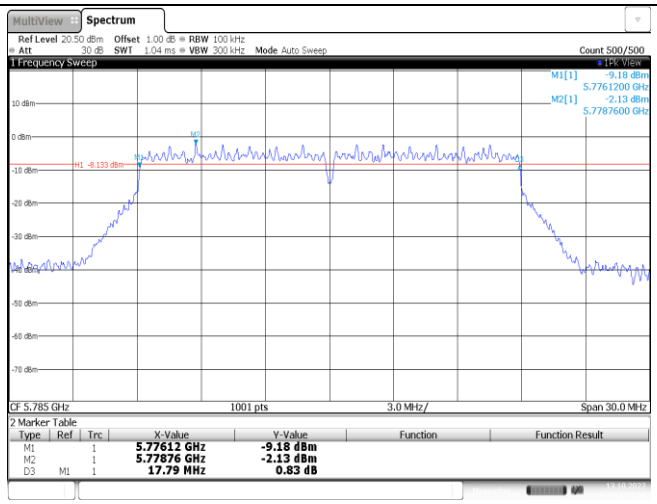
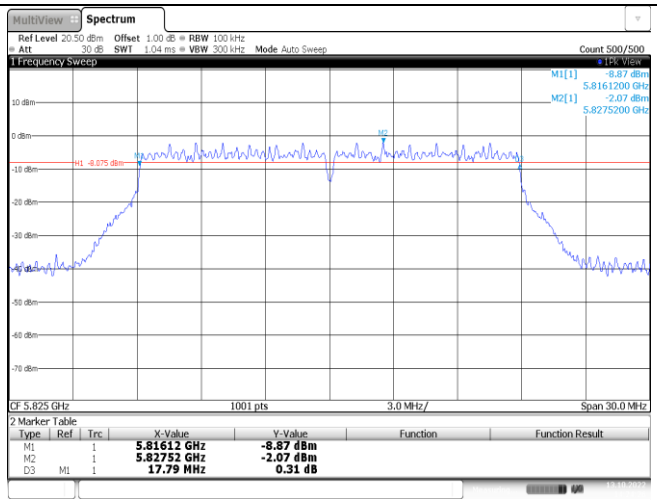
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwith (MHz)	Result
I	20	802.11n	CH_L	18.04	Pass
			CH_M	17.95	
			CH_H	17.95	
IV	20	802.11n	CH_L	18.04	Pass
			CH_M	17.95	
			CH_H	18.01	

Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Appendix E：6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwith (MHz)	Result
IV	20	802.11n	CH_L	17.79	Pass
			CH_M	17.79	
			CH_H	17.79	

Test channel	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Appendix F：Frequency stability

Voltage VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T_N	V_L	20000.00	3.86100	PASS
T_N	V_N	20000.00	3.86100	PASS
T_N	V_H	20000.00	3.86100	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T_N	V_L	25000.00	4.35161	PASS
T_N	V_N	24000.00	4.17755	PASS
T_N	V_H	25000.00	4.35161	PASS

Temperature VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	21000.00	4.05405	PASS
V_N	-10	21000.00	4.05405	PASS
V_N	0	21000.00	4.05405	PASS
V_N	10	21000.00	4.05405	PASS
V_N	20	22000.00	4.24710	PASS
V_N	30	22000.00	4.24710	PASS
V_N	40	22000.00	4.24710	PASS
V_N	50	22000.00	4.24710	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	25000.00	4.35161	PASS
V_N	-10	25000.00	4.35161	PASS
V_N	0	25000.00	4.35161	PASS
V_N	10	26000.00	4.52567	PASS
V_N	20	26000.00	4.52567	PASS
V_N	30	26000.00	4.52567	PASS
V_N	40	26000.00	4.52567	PASS
V_N	50	26000.00	4.52567	PASS

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