APPENDIX REPORT

Project No.	SHT2008120601EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20081206002	Model No.	CT9T48
Start test date	2020/9/14	Finish date	2020/9/14
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zhao

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

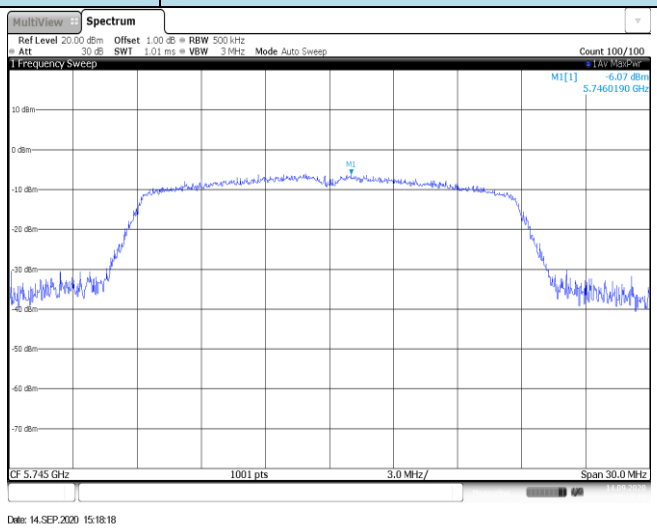
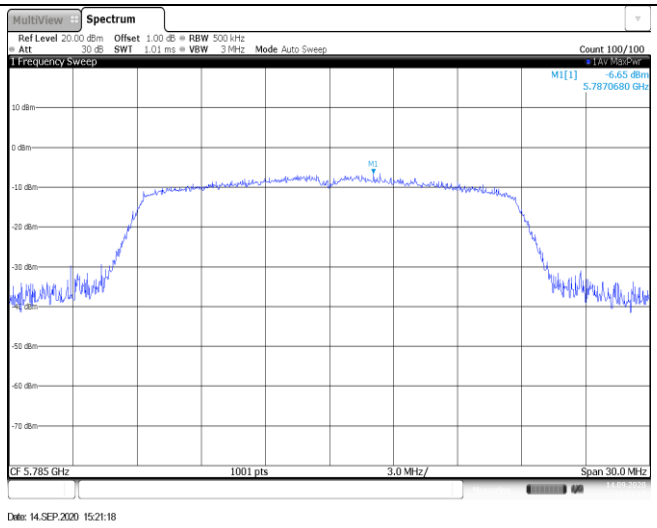
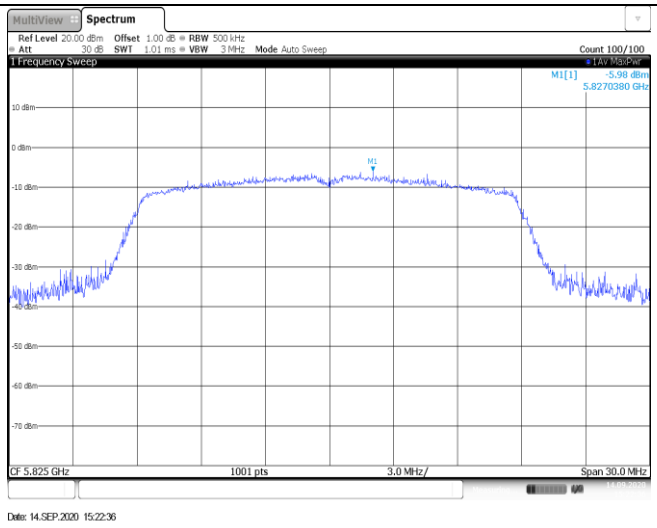
Appendix A：Maximum Conducted Output Power

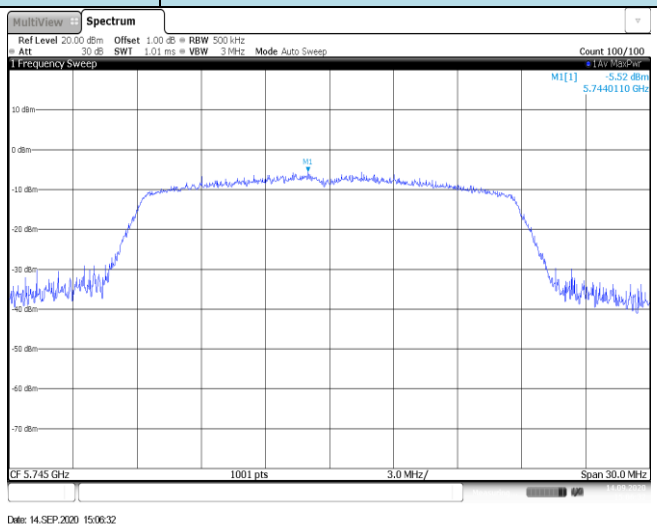
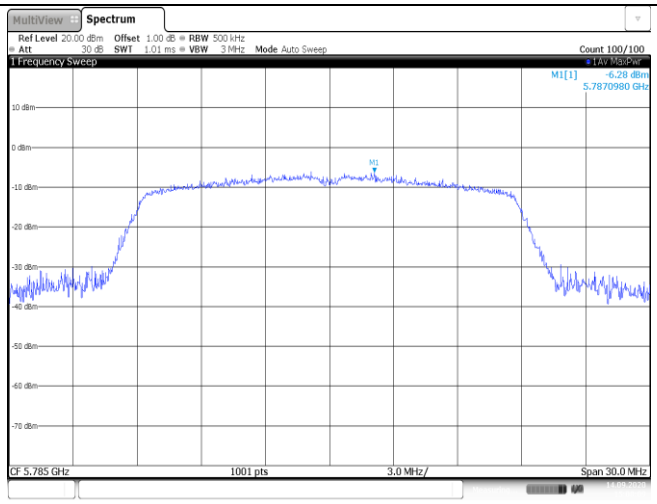
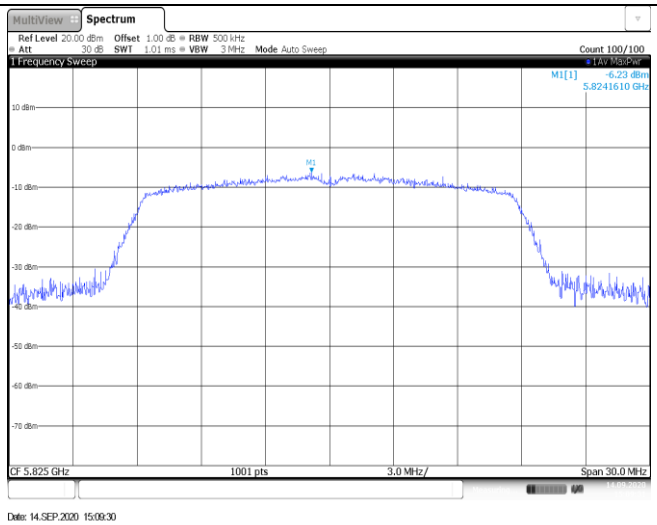
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Conducted Output Power (dBm)	Limit (dBm)	Result
IV	20	802.11ac	CH_L	5.35	100	0	5.35	30	Pass
			CH_M	5.13	100	0	5.13		
			CH_H	4.96	100	0	4.96		
		802.11n	CH_L	5.25	100	0	5.25	30	Pass
			CH_M	5.28	100	0	5.28		
			CH_H	4.87	100	0	4.87		
		802.11a	CH_L	5.44	100	0	5.44	30	Pass
			CH_M	5.47	100	0	5.47		
			CH_H	5.02	100	0	5.02		
	40	802.11ac	CH_L	5.31	100	0	5.31	30	Pass
			CH_H	5.01	100	0	5.01		
		802.11n	CH_L	4.48	100	0	4.48	30	Pass
			CH_H	4.32	100	0	4.32		
	80	802.11ac	CH_M	4.36	100	0	4.36	30	Pass

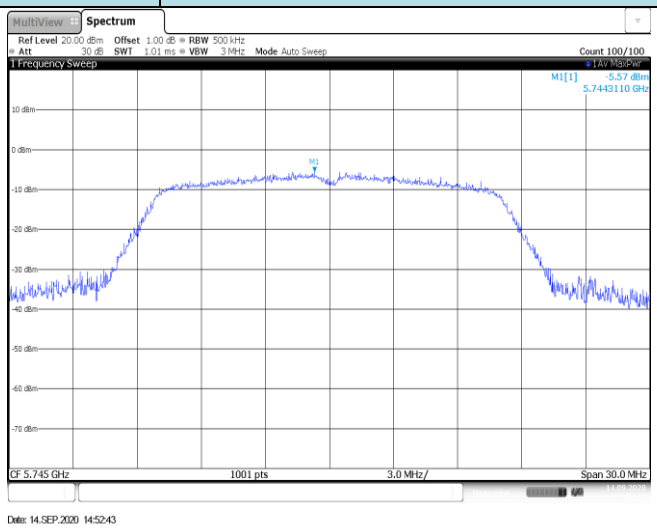
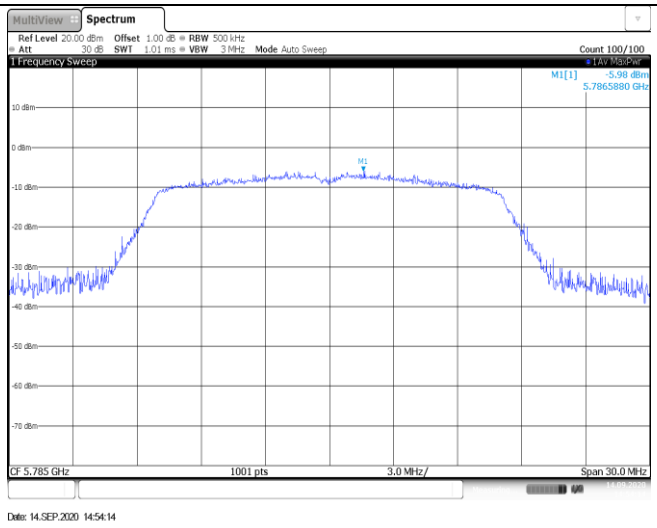
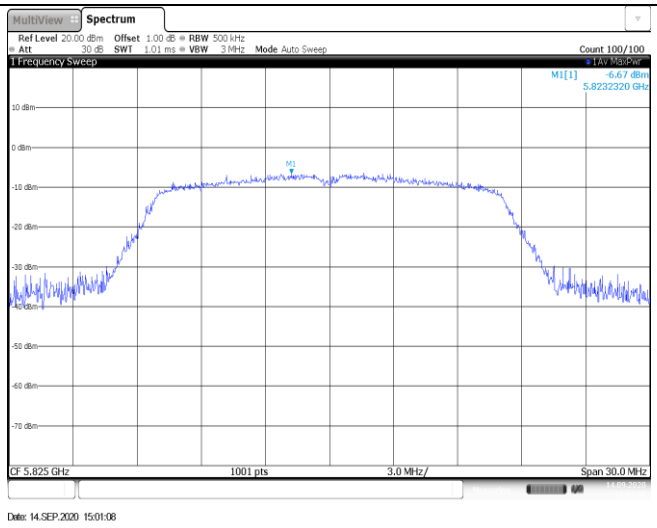
NOTE: duty cycle factor =10LOG(1/ duty cycle)

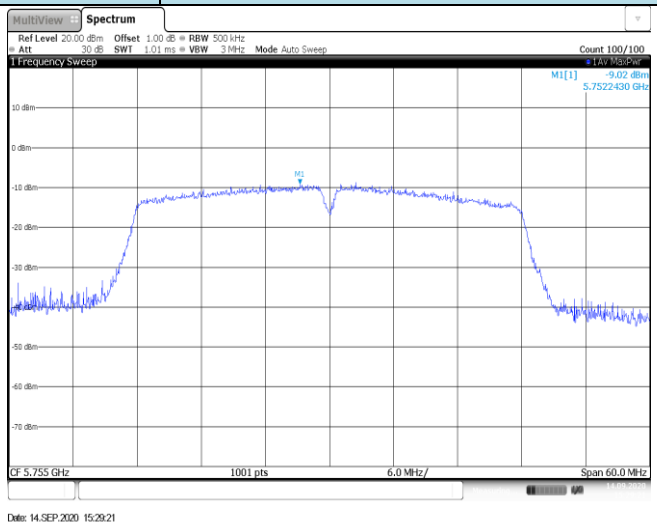
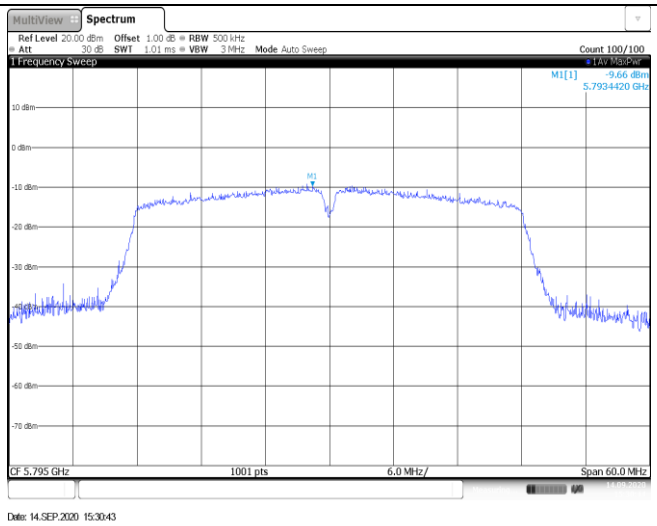
Appendix B：Maximum Power Spectral Density

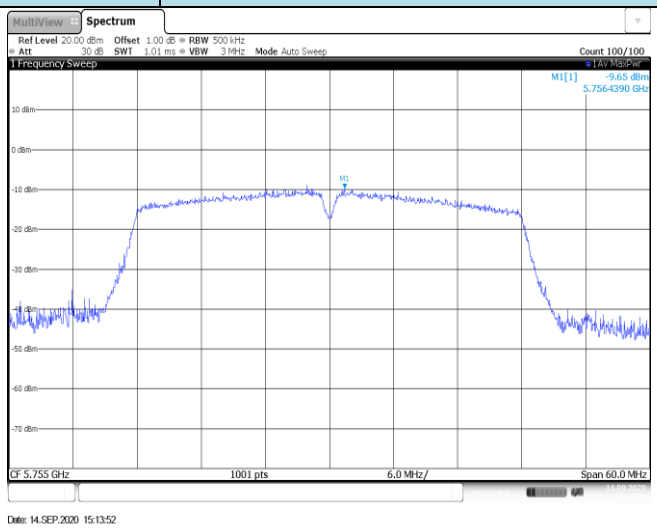
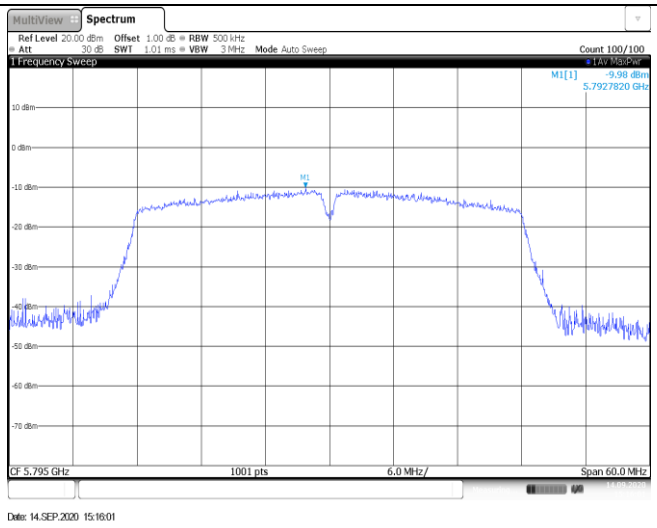
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/MHz)	Limit (dBm/1 MHz)	Result
IV	20	802.11 ac	CH_L	-6.07	100	0	-6.07	30.00	Pass
			CH_M	-6.65	100	0	-6.65		
			CH_H	-5.98	100	0	-5.98		
		802.11 n	CH_L	-5.52	100	0	-5.52	30.00	Pass
			CH_M	-6.28	100	0	-6.28		
			CH_H	-6.23	100	0	-6.23		
		802.11 a	CH_L	-5.57	100	0	-5.57	30.00	Pass
			CH_M	-5.98	100	0	-5.98		
			CH_H	-6.67	100	0	-6.67		
	40	802.11 ac	CH_L	-9.02	100	0	-9.02	30.00	Pass
			CH_H	-9.66	100	0	-9.66		
		802.11 n	CH_L	-9.65	100	0	-9.65	30.00	Pass
			CH_H	-9.98	100	0	-9.98		
	80	802.11 ac	CH_M	-13.74	100	0	-13.74	30.00	Pass

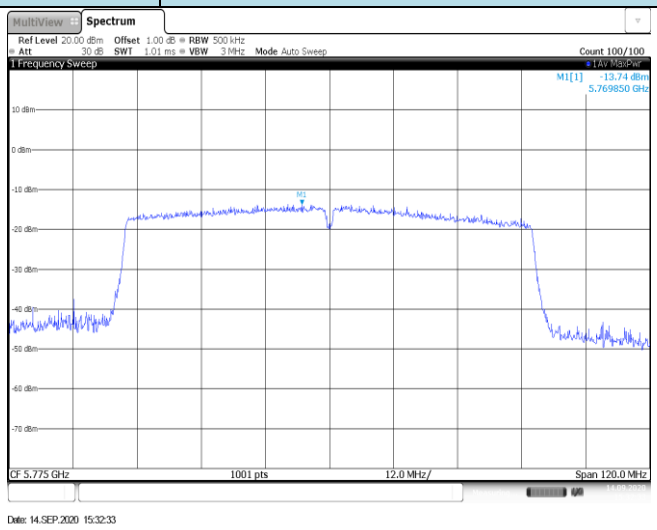
Band IV	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11a
CH_L	
CH_M	
CH_H	

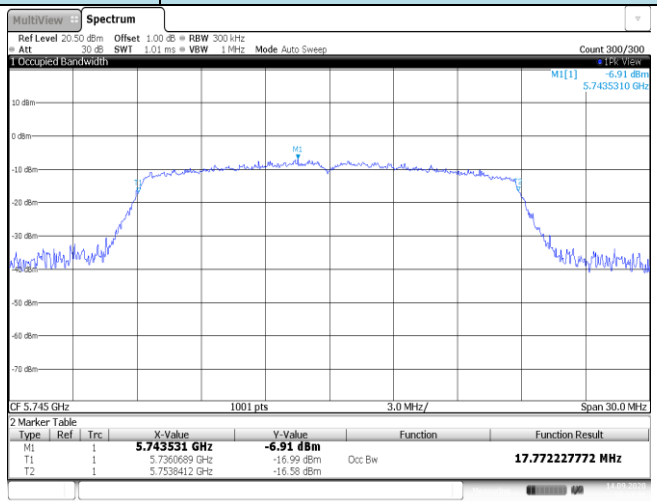
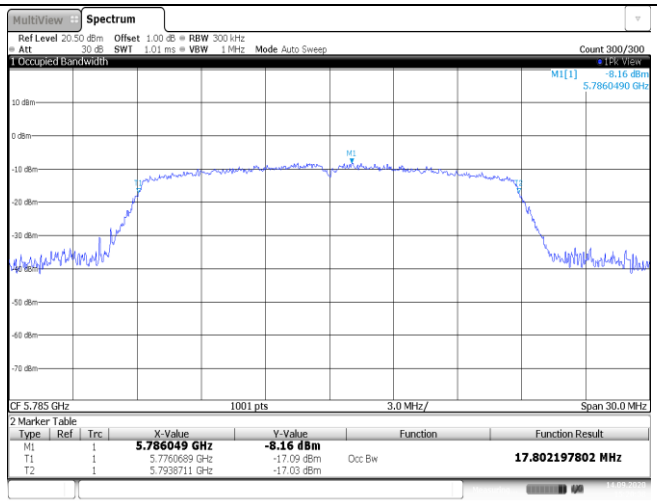
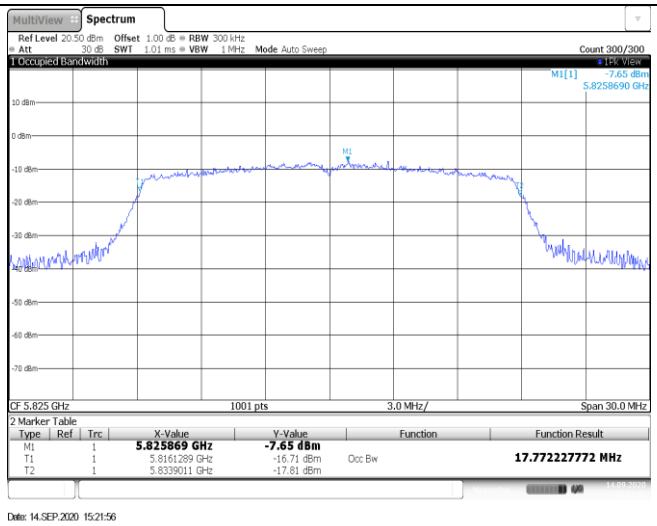
Band IV	802.11ac (HT40)
CH_L	
CH_H	

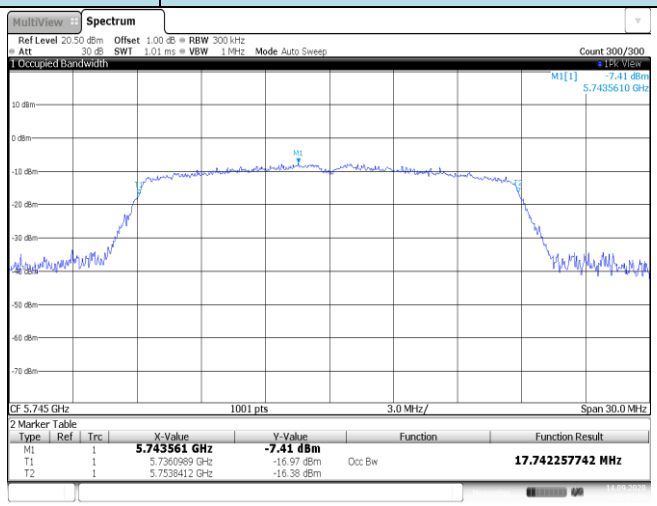
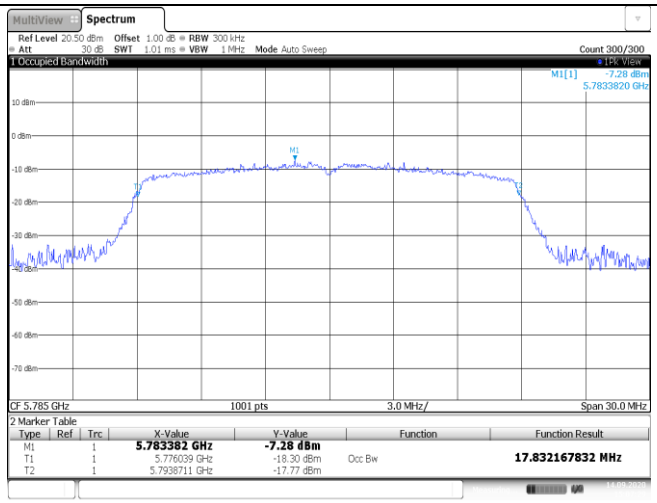
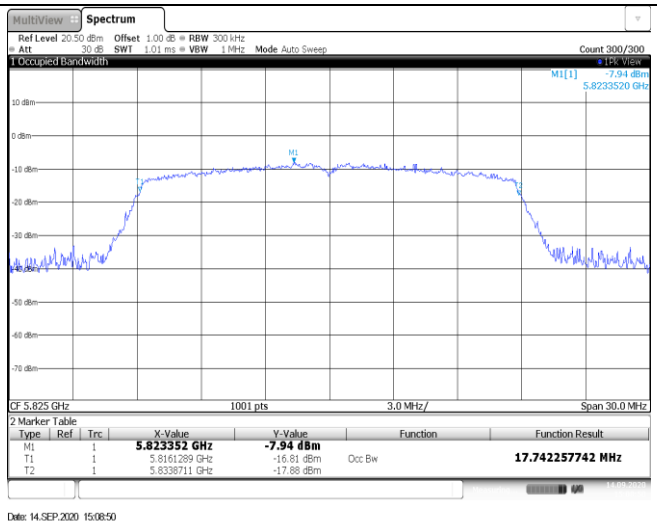
Band IV	802.11n (HT40)
CH_L	
CH_H	

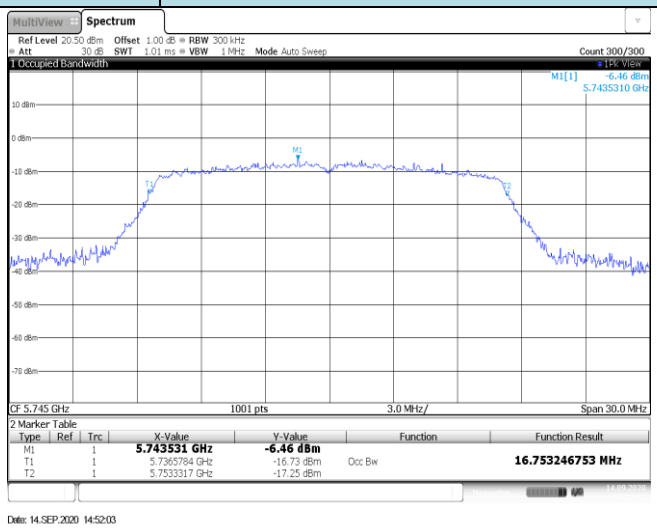
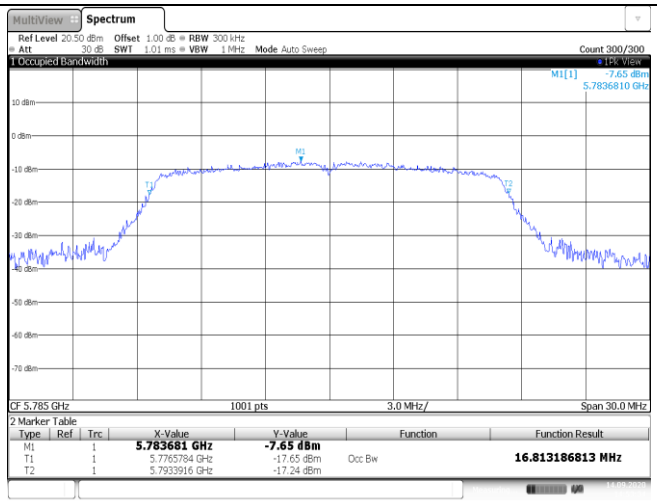
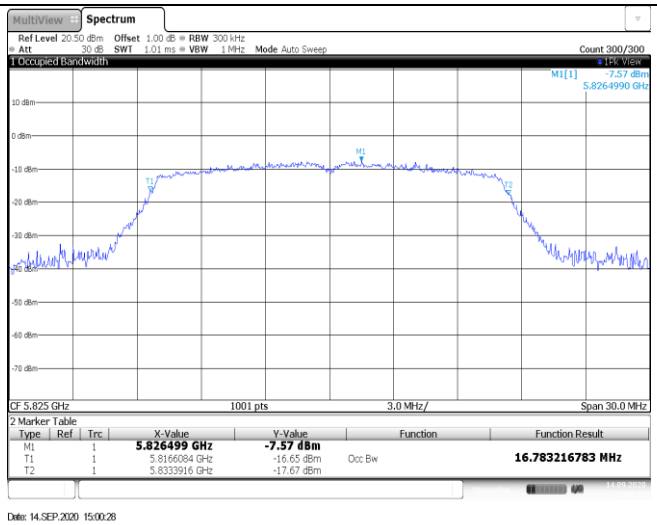
Band IV	802.11ac (HT80)
CH_M	

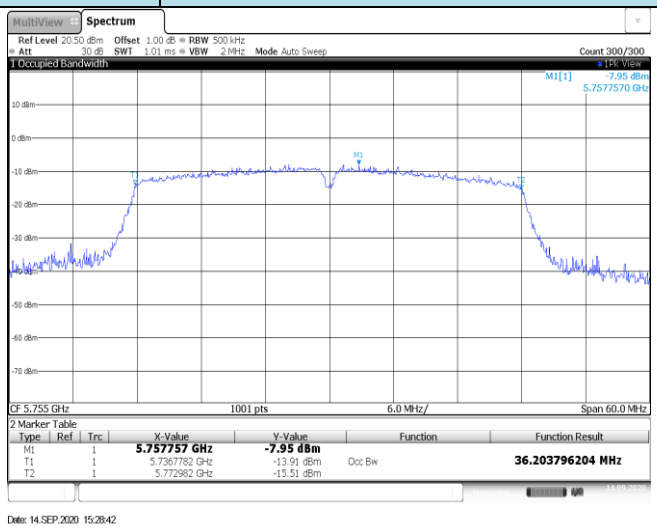
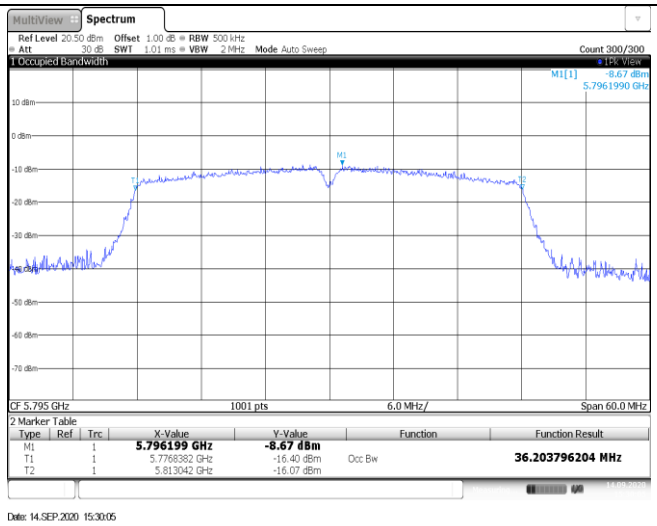
Appendix C：99% Occupy bandwidth

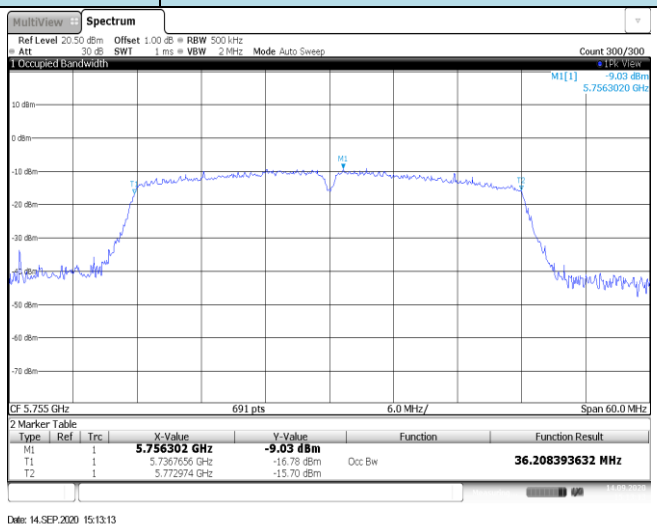
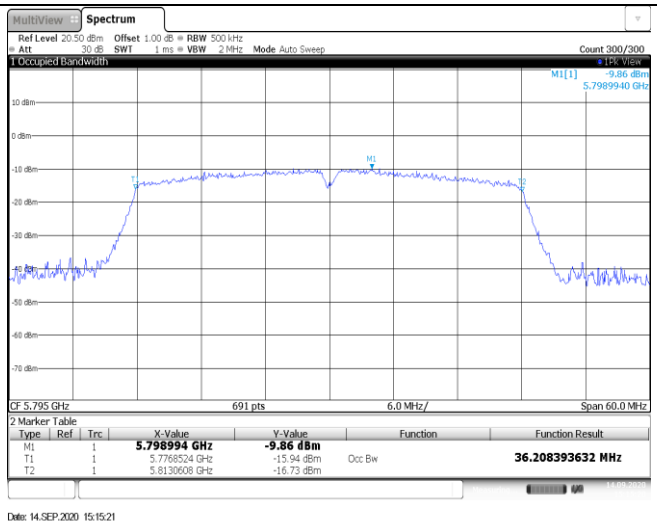
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwith (MHz)	Result
IV	20	802.11ac	CH_L	17.77	Pass
			CH_M	17.80	
			CH_H	17.77	
		802.11n	CH_L	17.74	Pass
			CH_M	17.83	
			CH_H	17.74	
		802.11a	CH_L	16.75	Pass
			CH_M	16.81	
			CH_H	16.78	
	40	802.11ac	CH_L	36.20	Pass
			CH_H	36.20	
		802.11n	CH_L	36.21	Pass
			CH_H	36.21	
	80	802.11ac	CH_M	75.40	Pass

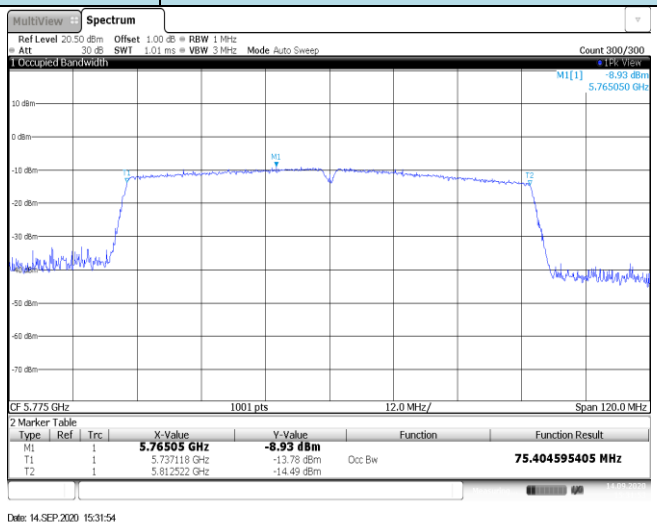
Band IV	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11a
CH_L	
CH_M	
CH_H	

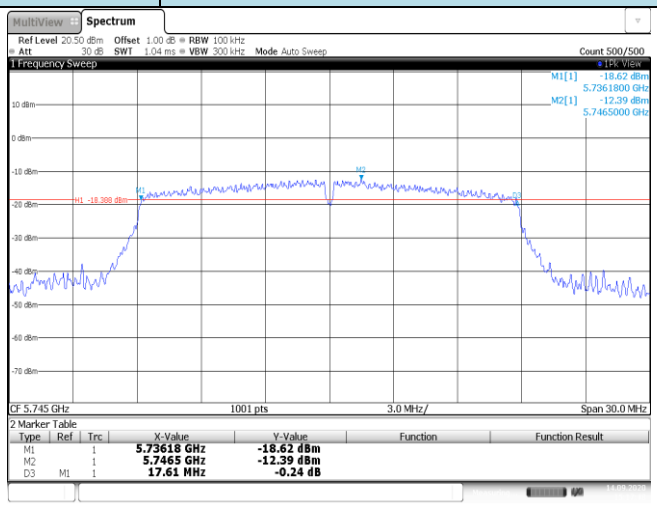
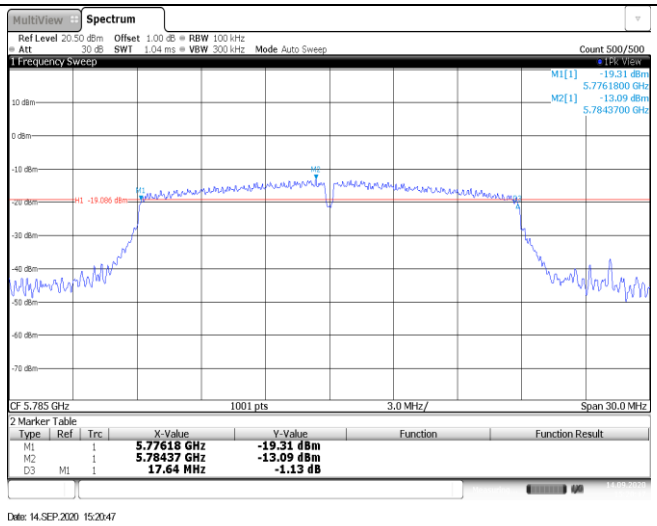
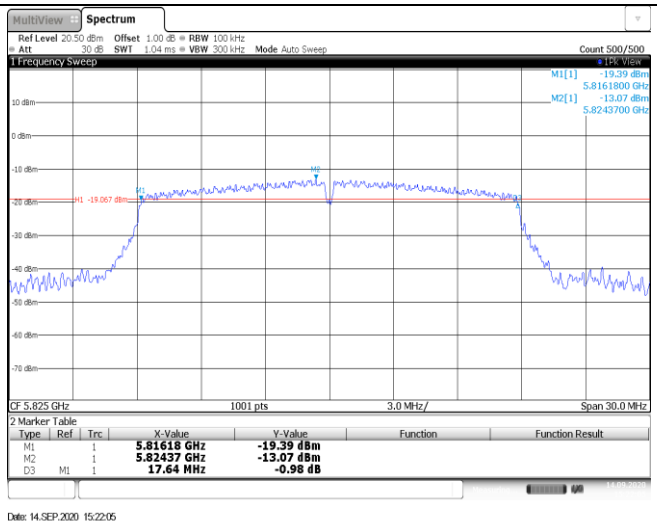
Band IV	802.11ac (HT40)
CH_L	
CH_H	

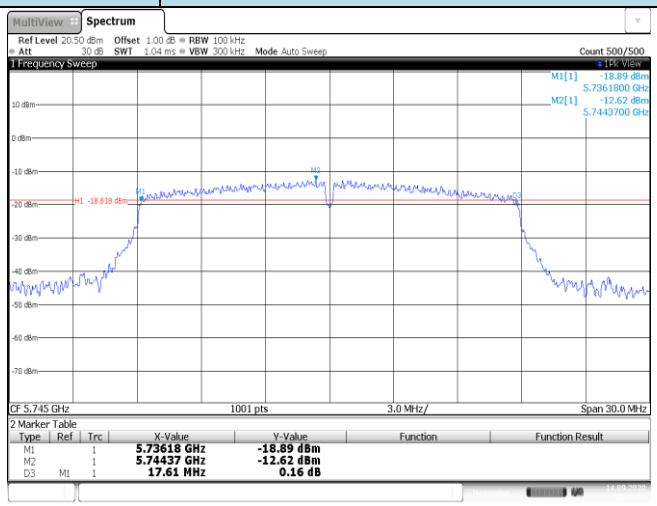
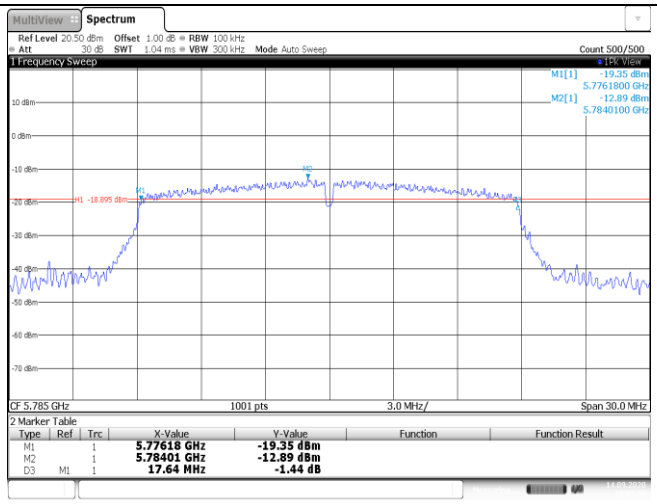
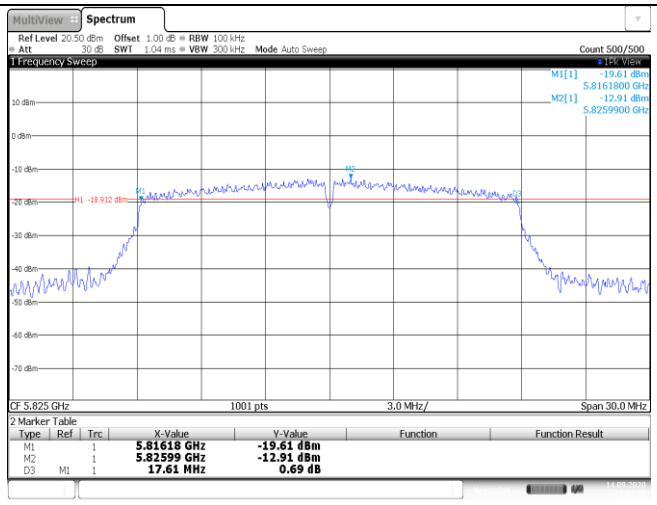
Band IV	802.11n (HT40)
CH_L	
CH_H	

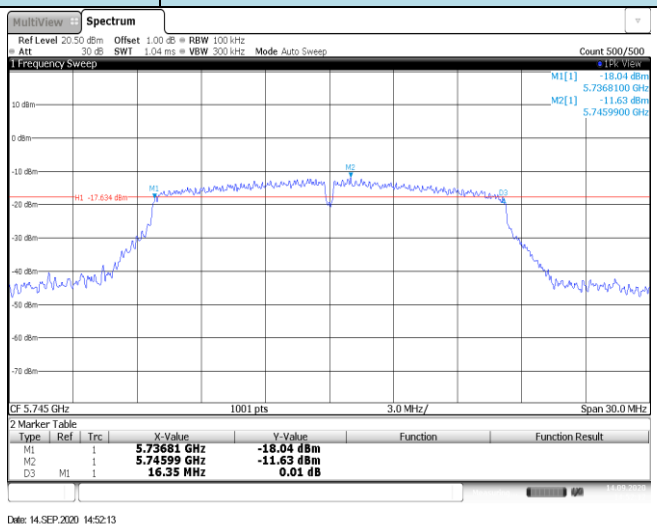
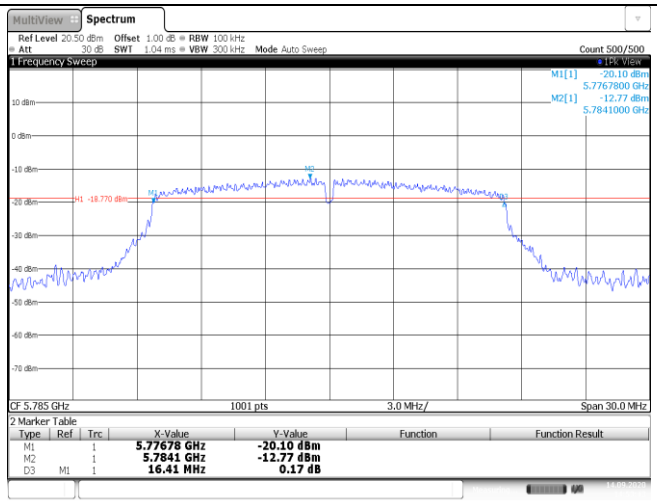
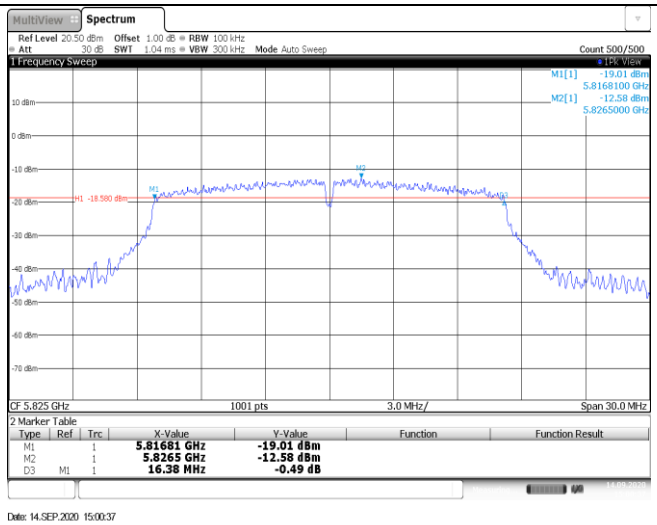
Band IV	802.11ac (HT80)
CH_M	

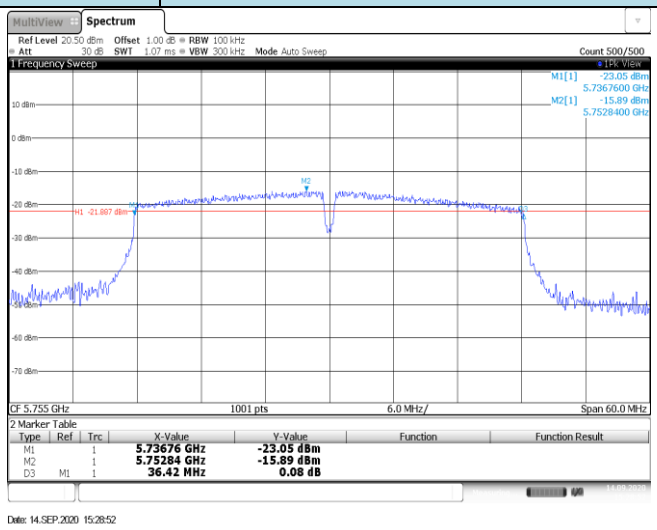
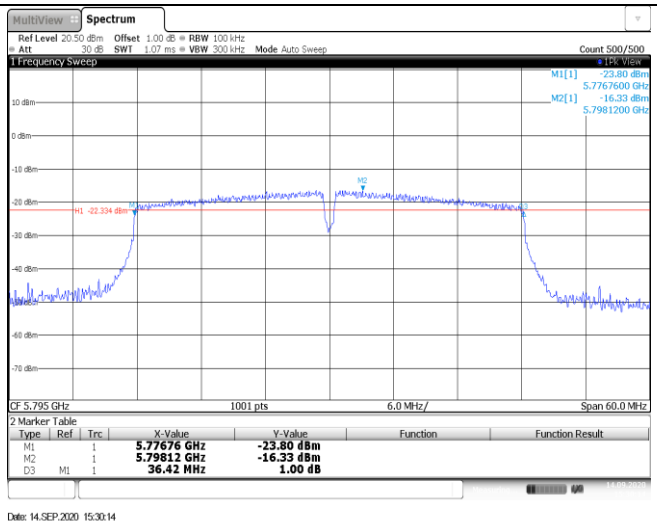
Appendix D：6dB Bandwidth

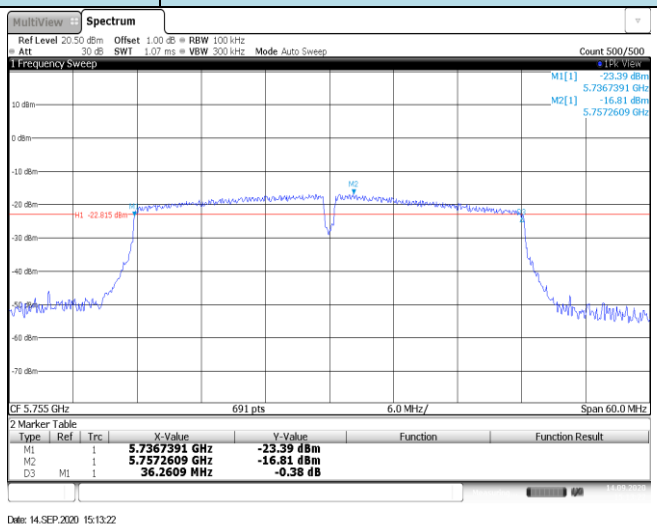
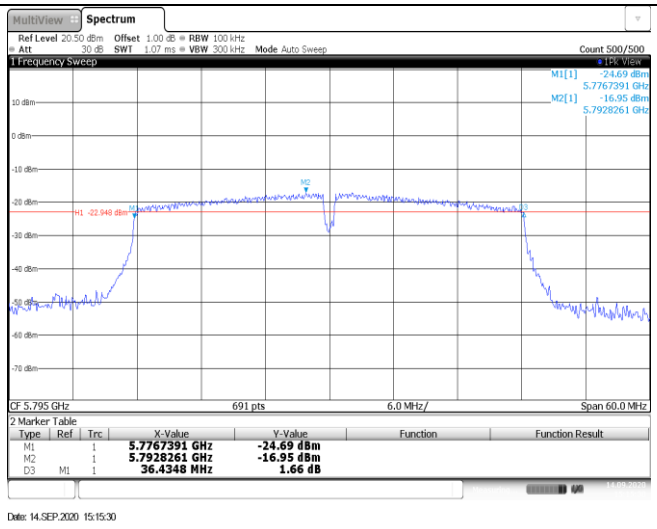
Band	Bandwidth (MHz)	Type	Channel	6dB bandwith (MHz)	Result
IV	20	802.11ac	CH_L	17.61	Pass
			CH_M	17.64	
			CH_H	17.64	
		802.11n	CH_L	17.61	Pass
			CH_M	17.64	
			CH_H	17.61	
		802.11a	CH_L	16.35	Pass
			CH_M	16.41	
			CH_H	16.38	
	40	802.11ac	CH_L	36.42	Pass
			CH_H	36.42	
		802.11n	CH_L	36.26	Pass
			CH_H	36.43	
	80	802.11ac	CH_M	76.68	Pass

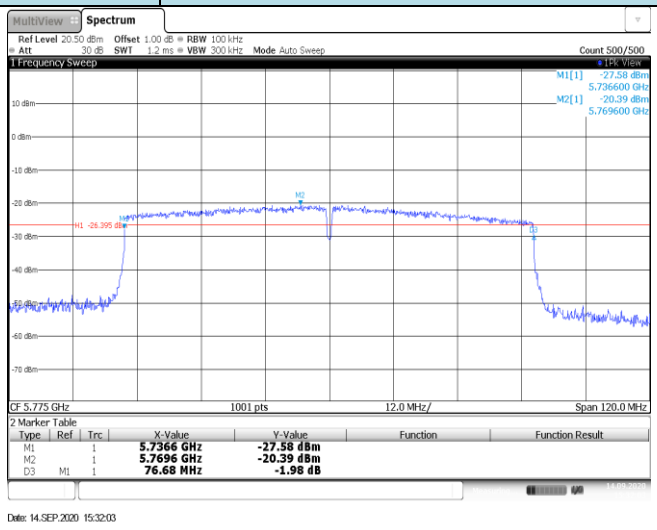
Band IV	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_M	
CH_H	

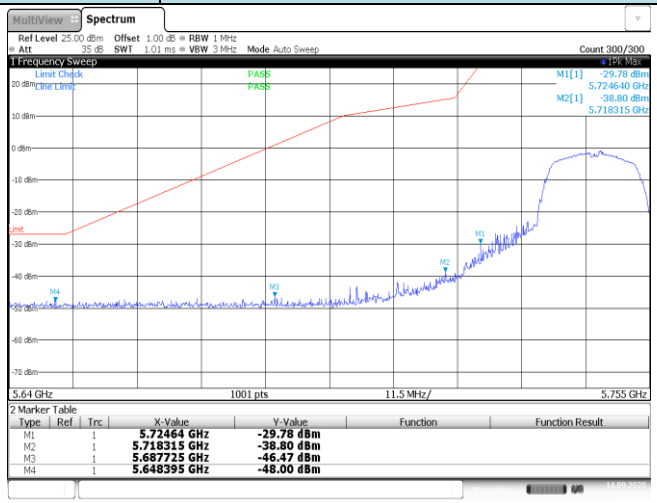
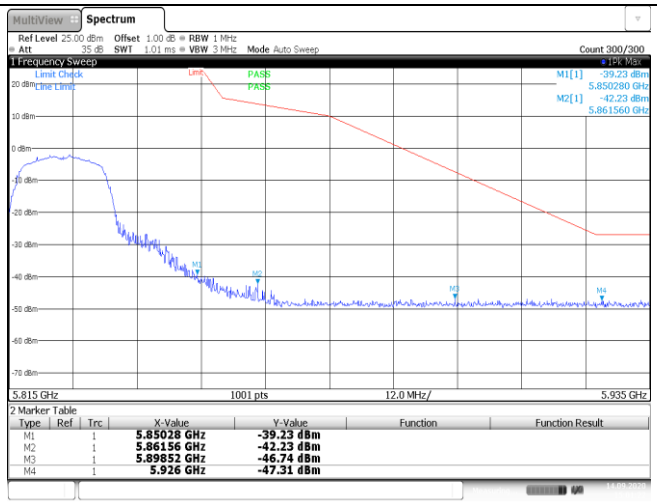
Band IV	802.11a
CH_L	
CH_M	
CH_H	

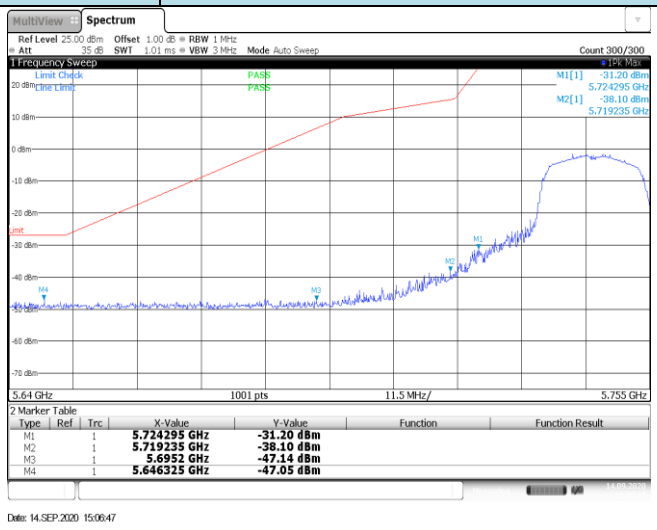
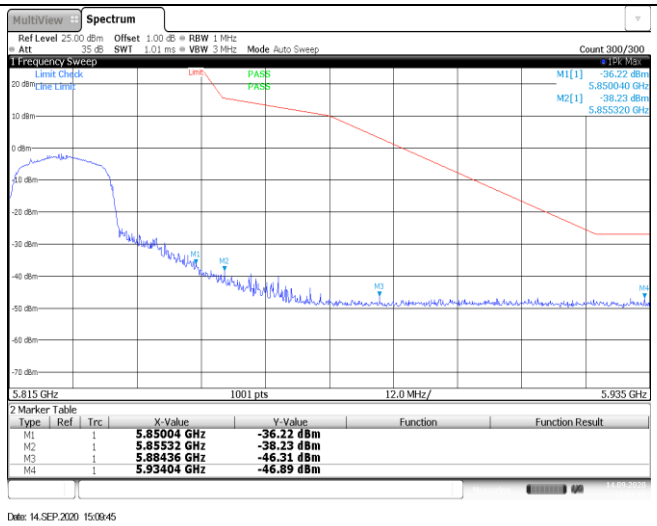
Band IV	802.11ac (HT40)
CH_L	
CH_H	

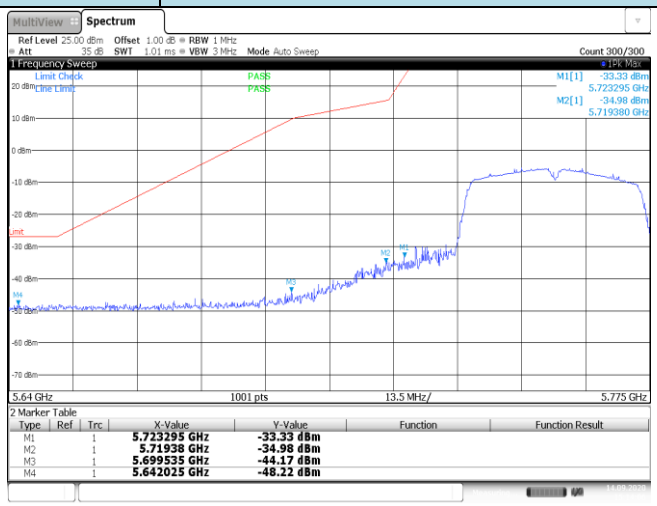
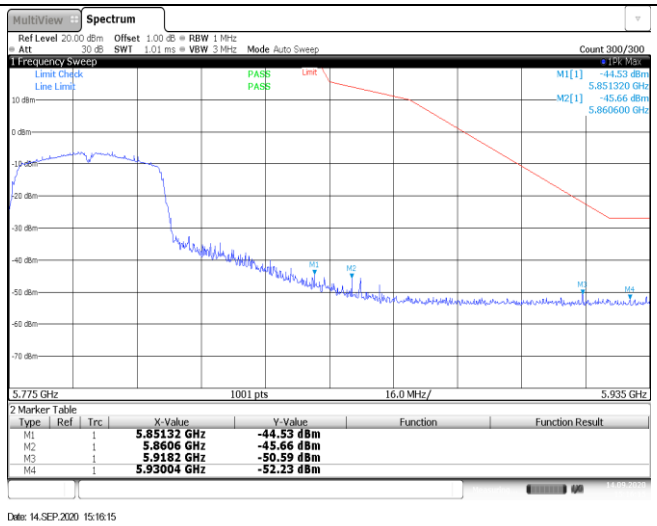
Band IV	802.11n (HT40)
CH_L	
CH_H	

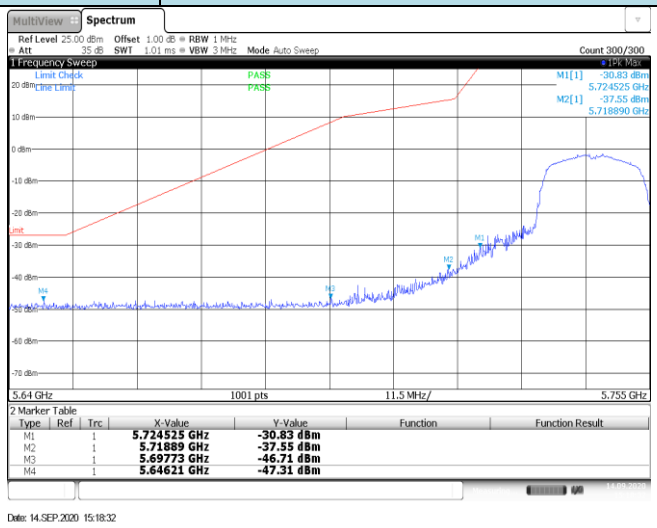
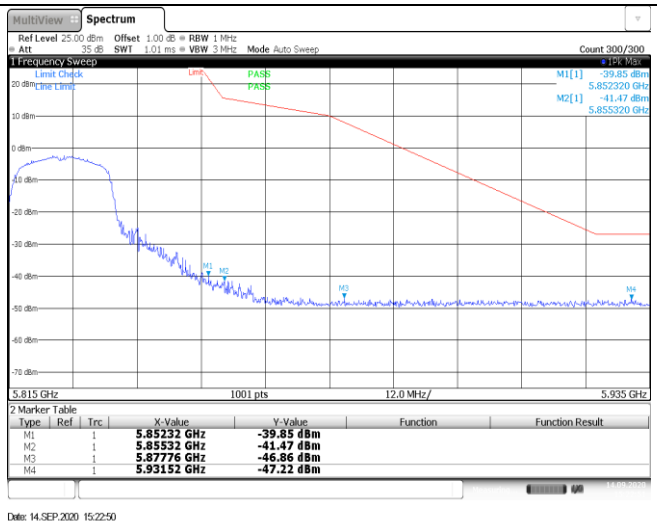
Band IV	802.11ac (HT80)
CH_M	

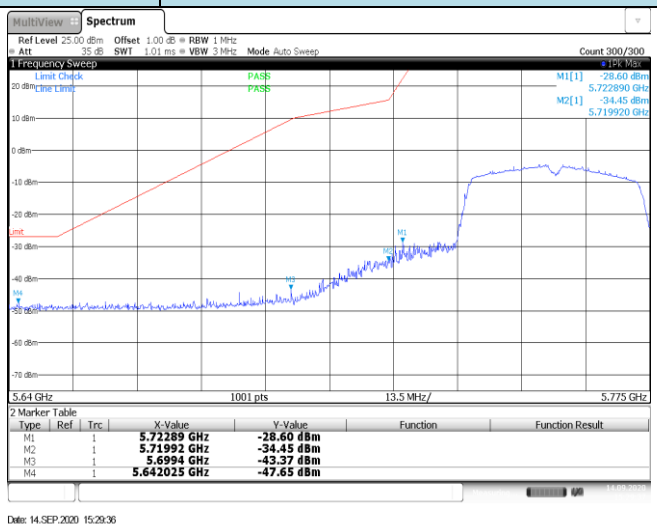
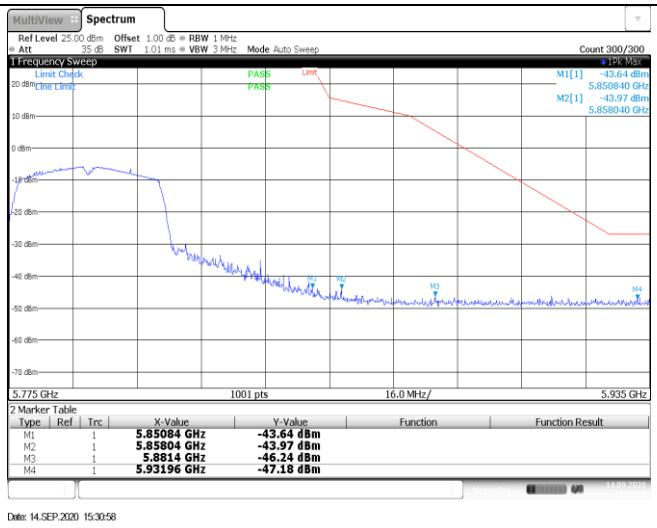
Appendix E：Band edge

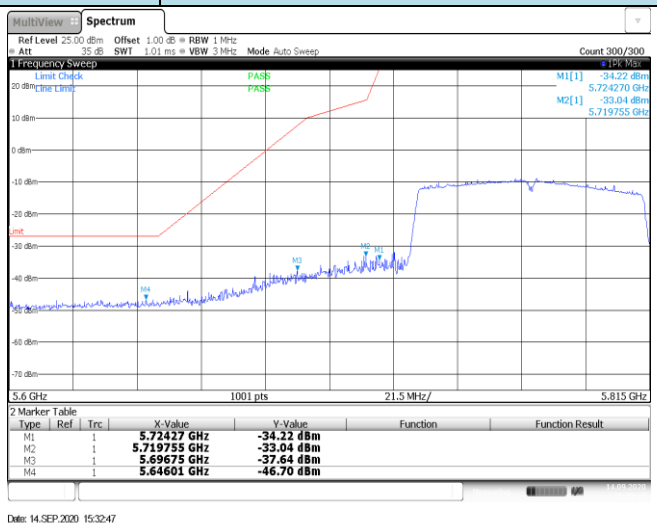
Band IV	802.11a
CH_L	
CH_H	

Band IV	802.11n (HT20)
CH_L	
CH_H	

Band IV	802.11 n(HT40)
CH_L	
CH_H	

Band IV	802.11ac(HT20)
CH_L	
CH_H	

Band IV	802.11ac(HT40)
CH_L	
CH_H	

Band IV	802.11ac(HT80)
CH_L	

Appendix F：Frequency stability

Voltage VS Frequency stability

Band: IV			Test Frequency: 5745.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T_N	V_L	-2000.00	-0.34813	PASS
T_N	V_N	-2000.00	-0.34813	PASS
T_N	V_H	-2000.00	-0.34813	PASS

Temperature VS Frequency stability

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	-2000.00	-0.34813	PASS
V_N	-10	-2000.00	-0.34813	PASS
V_N	0	-2000.00	-0.34813	PASS
V_N	10	-2000.00	-0.34813	PASS
V_N	20	-2000.00	-0.34813	PASS
V_N	30	-2000.00	-0.34813	PASS
V_N	40	-2000.00	-0.34813	PASS
V_N	50	-2000.00	-0.34813	PASS

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