APPENDIX REPORT

Project No.	SHT2108044901EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20180449003	Model No.	EyeOn-10NE
Start test date	2021-09-12	Finish date	2021-09-13
Temperature	25.8℃	Humidity	38%
Test Engineer	Hailey Chen	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	802.11ac	CH_L	12.57	97.21	0.12	12.69	24.00	Pass
			CH_M	12.92	97.12	0.13	13.05		
			CH_H	13.11	97.21	0.12	13.23		
		802.11n	CH_L	12.58	97.18	0.12	12.70	24.00	Pass
			CH_M	12.67	97.09	0.13	12.80		
			CH_H	13.57	97.18	0.12	13.69		
		802.11a	CH_L	12.63	97.28	0.12	12.75	24.00	Pass
			CH_M	12.97	97.28	0.12	13.09		
			CH_H	13.78	97.36	0.12	13.90		
	40	802.11ac	CH_L	12.78	94.60	0.24	13.02	24.00	Pass
			CH_H	12.95	94.69	0.24	13.19		
		802.11n	CH_L	11.05	94.57	0.24	11.29	24.00	Pass
			CH_H	12.30	94.65	0.24	12.54		
	80	802.11ac	CH_M	10.65	89.84	0.47	11.12	24.00	Pass
II	20	802.11ac	CH_L	12.99	97.21	0.12	13.11	24.00	Pass
			CH_M	13.41	97.21	0.12	13.53		
			CH_H	13.27	97.21	0.12	13.39		
		802.11n	CH_L	12.92	97.09	0.13	13.05	24.00	Pass
			CH_M	13.43	97.09	0.13	13.56		
			CH_H	13.22	97.09	0.13	13.35		
		802.11a	CH_L	13.76	97.36	0.12	13.88	24.00	Pass
			CH_M	13.14	97.36	0.12	13.26		
			CH_H	13.44	97.36	0.12	13.56		
	40	802.11ac	CH_L	12.40	94.60	0.24	12.64	24.00	Pass
			CH_H	11.67	94.68	0.24	11.91		
		802.11n	CH_L	12.36	94.65	0.24	12.60	24.00	Pass
			CH_H	12.22	94.65	0.24	12.46		
	80	802.11ac	CH_M	11.37	89.82	0.47	11.84	24.00	Pass

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Conducted Output Power (dBm)	Limit (dBm)	Result
III	20	802.11ac	CH_L	11.40	97.11	0.13	11.53	24.00	Pass
			CH_M	10.24	97.12	0.13	10.37		
			CH_H	10.83	97.12	0.13	10.96		
		802.11n	CH_L	11.39	97.18	0.12	11.51	24.00	Pass
			CH_M	10.24	97.18	0.12	10.36		
			CH_H	9.86	97.09	0.13	9.99		
		802.11a	CH_L	12.51	97.28	0.12	12.63	24.00	Pass
			CH_M	10.89	97.36	0.12	11.01		
			CH_H	11.40	97.36	0.12	11.52		
	40	802.11ac	CH_L	10.63	94.69	0.24	10.87	24.00	Pass
			CH_M	10.42	94.68	0.24	10.66		
			CH_H	10.27	94.60	0.24	10.51		
		802.11n	CH_L	11.14	94.65	0.24	11.38	24.00	Pass
			CH_M	10.44	94.65	0.24	10.68		
			CH_H	10.29	94.57	0.24	10.53		
	80	802.11ac	CH_L	9.16	89.84	0.47	9.63	24.00	Pass
			CH_M	8.11	89.84	0.47	8.58		
			CH_H	8.28	89.67	0.47	8.75		
IV	20	802.11ac	CH_L	10.78	97.12	0.13	10.91	30.00	Pass
			CH_M	10.73	97.21	0.12	10.85		
			CH_H	10.95	97.21	0.12	11.07		
		802.11n	CH_L	10.76	97.18	0.12	10.88	30.00	Pass
			CH_M	10.68	97.09	0.13	10.81		
			CH_H	10.94	97.09	0.13	11.07		
		802.11a	CH_L	10.93	97.28	0.12	11.05	30.00	Pass
			CH_M	10.94	97.28	0.12	11.06		
			CH_H	11.61	97.28	0.12	11.73		
	40	802.11ac	CH_L	10.75	94.69	0.24	10.99	30.00	Pass
			CH_H	10.70	94.60	0.24	10.94		
		802.11n	CH_L	10.75	94.65	0.24	10.99	30.00	Pass
			CH_H	10.71	94.57	0.24	10.95		
	80	802.11ac	CH_M	10.32	89.82	0.47	10.79	30.00	Pass

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

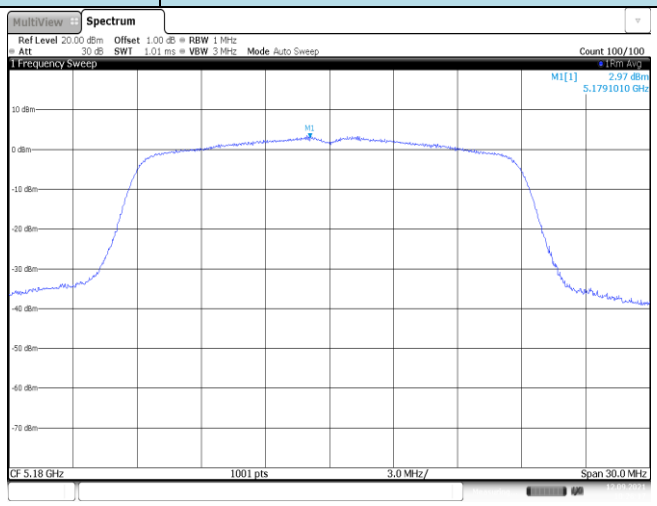
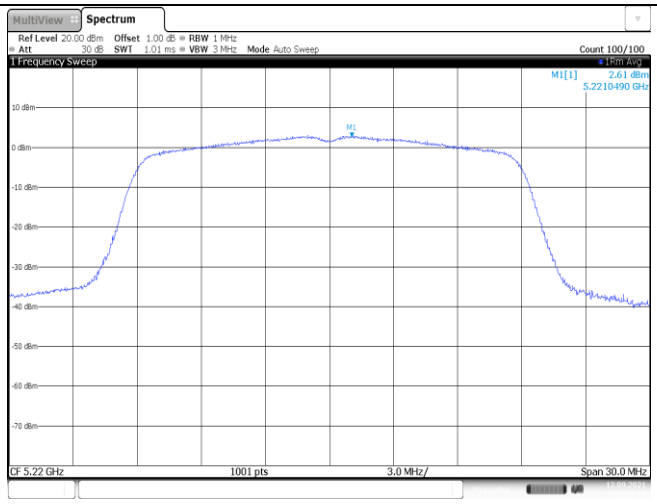
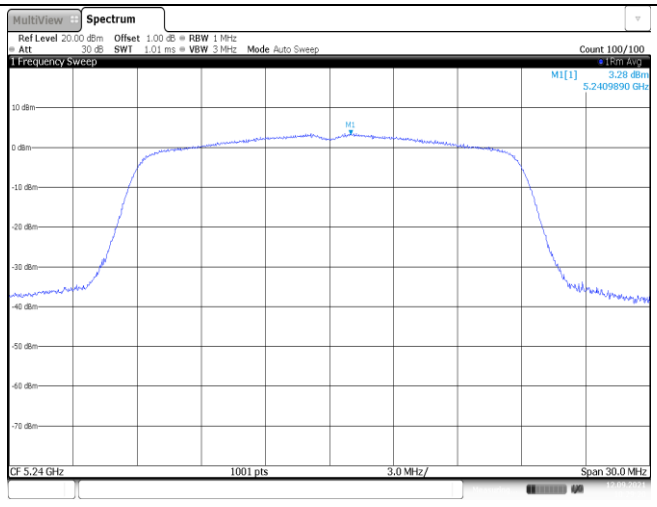
Appendix B：Maximum Power Spectral Density

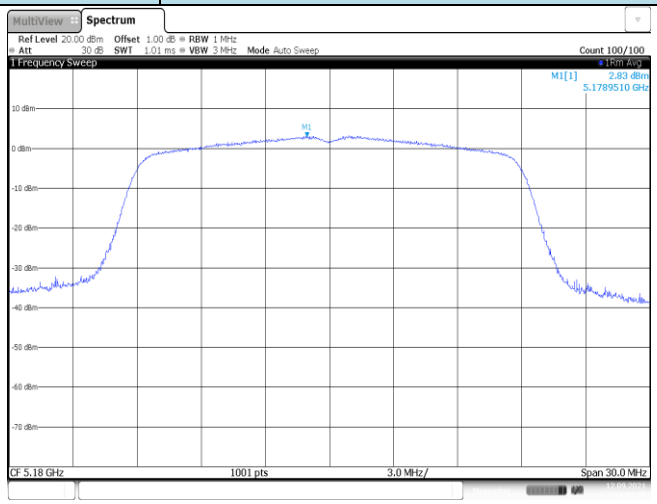
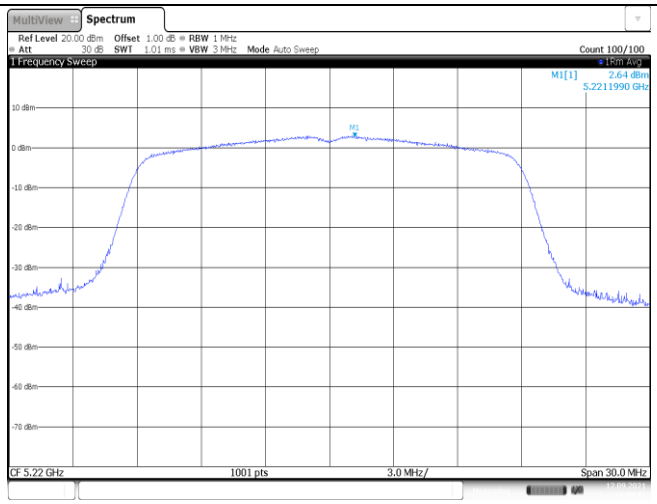
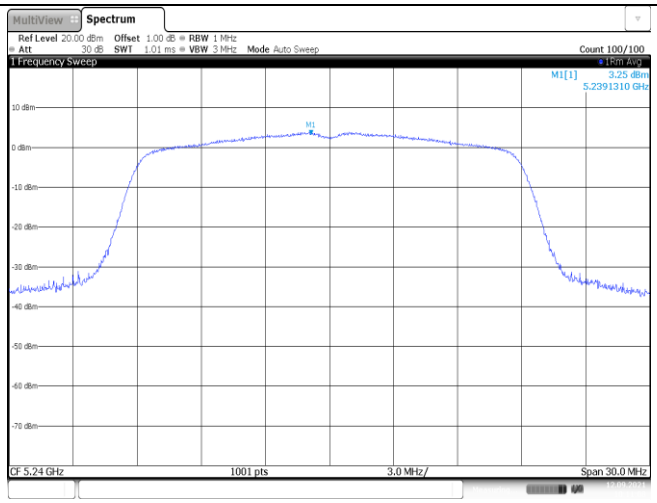
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/MHz)	Limit (dBm/ MHz)	Result
I	20	802.11ac	CH_L	2.97	97.21	0.12	3.09	11.00	Pass
			CH_M	2.61	97.12	0.13	2.74		
			CH_H	3.28	97.21	0.12	3.40		
		802.11n	CH_L	2.83	97.18	0.12	2.95	11.00	Pass
			CH_M	2.64	97.09	0.13	2.77		
			CH_H	3.25	97.18	0.12	3.37		
		802.11a	CH_L	2.90	97.28	0.12	3.02	11.00	Pass
			CH_M	3.17	97.28	0.12	3.29		
			CH_H	3.82	97.36	0.12	3.94		
	40	802.11ac	CH_L	-0.09	94.60	0.24	0.15	11.00	Pass
			CH_H	0.15	94.69	0.24	0.39		
		802.11n	CH_L	-1.74	94.57	0.24	-1.50	11.00	Pass
			CH_H	-0.62	94.65	0.24	-0.38		
	80	802.11ac	CH_M	-6.33	89.84	0.47	-5.86	11.00	Pass

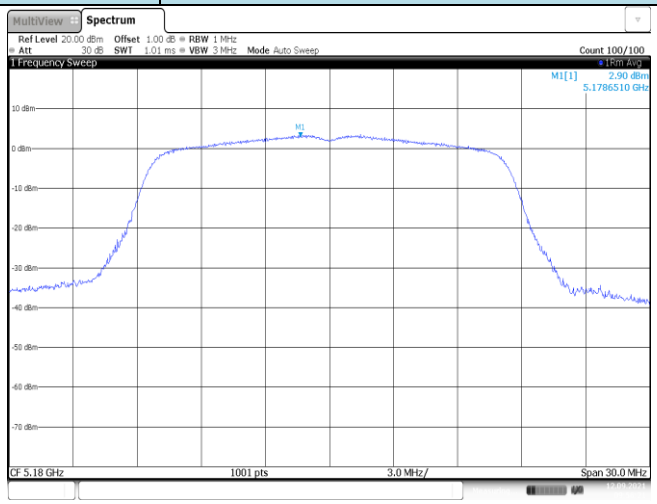
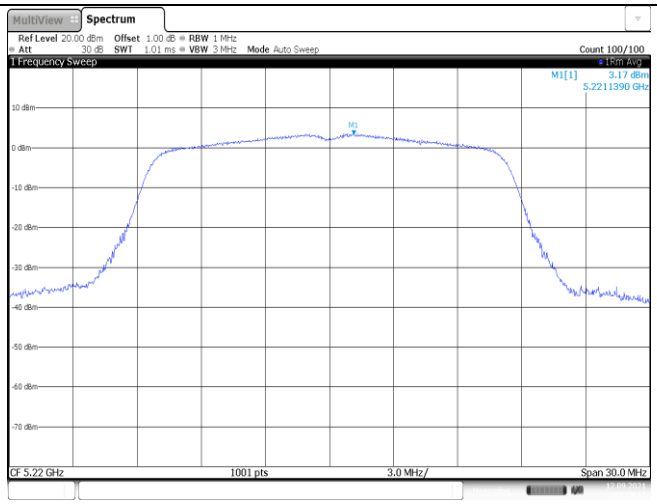
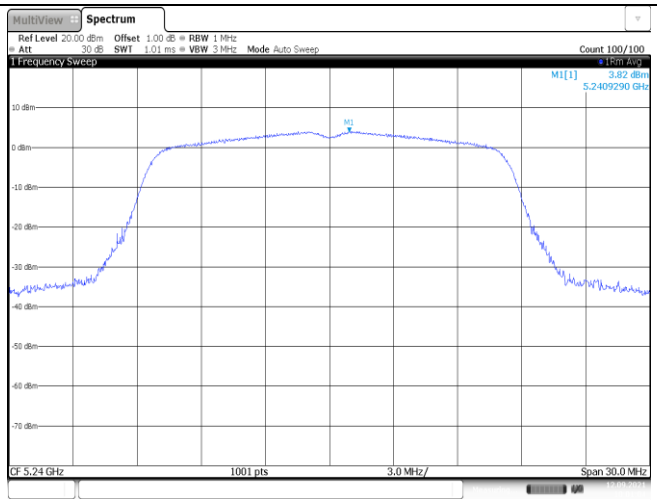
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/MHz)	Limit (dBm/ MHz)	Result
II	20	802.11ac	CH_L	2.98	97.21	0.12	3.10	11.00	Pass
			CH_M	3.57	97.21	0.12	3.69		
			CH_H	3.29	97.21	0.12	3.41		
		802.11n	CH_L	3.07	97.09	0.13	3.20	11.00	Pass
			CH_M	3.50	97.09	0.13	3.63		
			CH_H	4.02	97.09	0.13	4.15		
		802.11a	CH_L	3.55	97.36	0.12	3.67	11.00	Pass
			CH_M	3.82	97.36	0.12	3.94		
			CH_H	3.79	97.36	0.12	3.91		
	40	802.11ac	CH_L	-0.75	94.60	0.24	-0.51	11.00	Pass
			CH_H	-0.93	94.68	0.24	-0.69		
		802.11n	CH_L	-0.32	94.65	0.24	-0.08	11.00	Pass
			CH_H	-0.22	94.65	0.24	0.02		
	80	802.11ac	CH_M	-5.00	89.82	0.47	-4.53	11.00	Pass

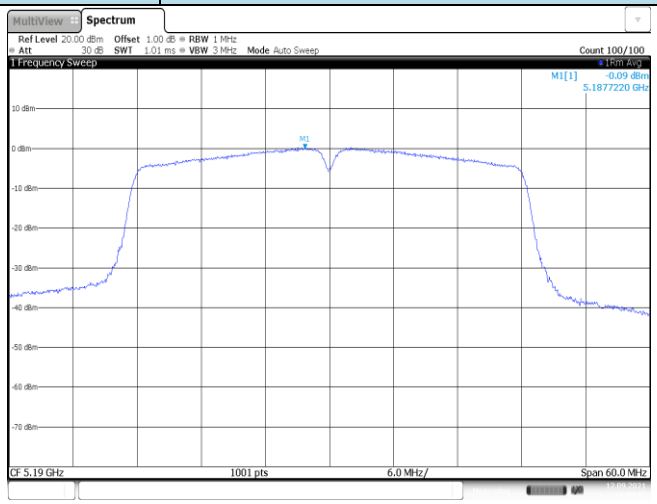
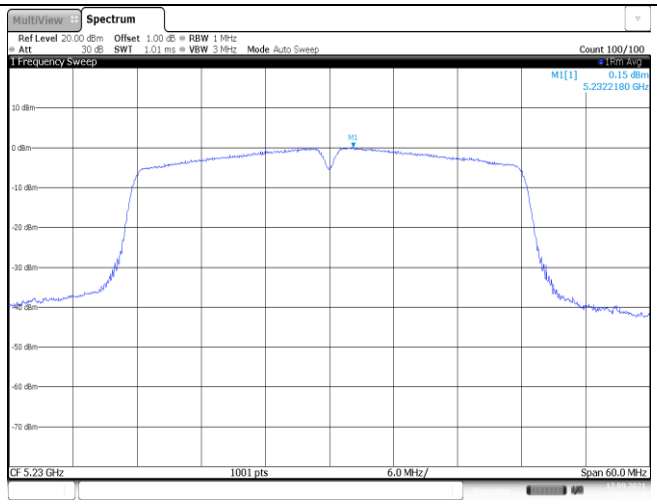
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/MHz)	Limit (dBm/ MHz)	Result
III	20	802.11ac	CH_L	1.54	97.11	0.13	1.67	11.00	Pass
			CH_M	0.83	97.12	0.13	0.96		
			CH_H	0.83	97.12	0.13	0.96		
		802.11n	CH_L	1.02	97.18	0.12	1.14	11.00	Pass
			CH_M	1.15	97.18	0.12	1.27		
			CH_H	-0.26	97.09	0.13	-0.13		
		802.11a	CH_L	2.43	97.28	0.12	2.55	11.00	Pass
			CH_M	1.86	97.36	0.12	1.98		
			CH_H	1.90	97.36	0.12	2.02		
	40	802.11ac	CH_L	-2.65	94.69	0.24	-2.41	11.00	Pass
			CH_M	-2.09	94.68	0.24	-1.85		
			CH_H	-2.94	94.60	0.24	-2.70		
		802.11n	CH_L	-1.98	94.65	0.24	-1.74	11.00	Pass
			CH_M	-1.76	94.65	0.24	-1.52		
			CH_H	-3.33	94.57	0.24	-3.09		
	80	802.11ac	CH_L	-7.57	89.84	0.47	-7.10	11.00	Pass
			CH_M	-8.28	89.84	0.47	-7.81		
			CH_H	-8.41	89.67	0.47	-7.94		
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Power Spectral Density (dBm/500kHz)	Limit (dBm/ 500KHz)	Result
IV	20	802.11ac	CH_L	-1.55	97.12	0.13	-1.42	30.00	Pass
			CH_M	-2.54	97.21	0.12	-2.42		
			CH_H	-1.69	97.21	0.12	-1.57		
		802.11n	CH_L	-1.49	97.18	0.12	-1.37	30.00	Pass
			CH_M	-2.40	97.09	0.13	-2.27		
			CH_H	-1.69	97.09	0.13	-1.56		
		802.11a	CH_L	-1.03	97.28	0.12	-0.91	30.00	Pass
			CH_M	-2.33	97.28	0.12	-2.21		
			CH_H	-1.21	97.28	0.12	-1.09		
	40	802.11ac	CH_L	-5.02	94.69	0.24	-4.78	30.00	Pass
			CH_H	-5.69	94.60	0.24	-5.45		
		802.11n	CH_L	-5.01	94.65	0.24	-4.77	30.00	Pass
			CH_H	-5.71	94.57	0.24	-5.47		
	80	802.11ac	CH_M	-9.50	89.82	0.47	-9.03	30.00	Pass

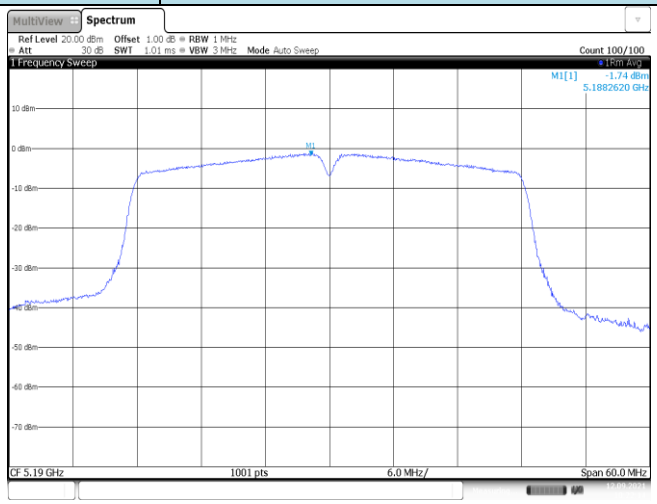
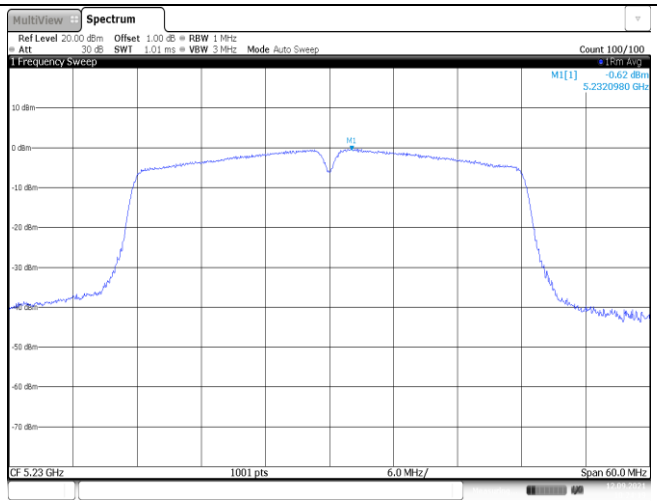
Test plot as follows:

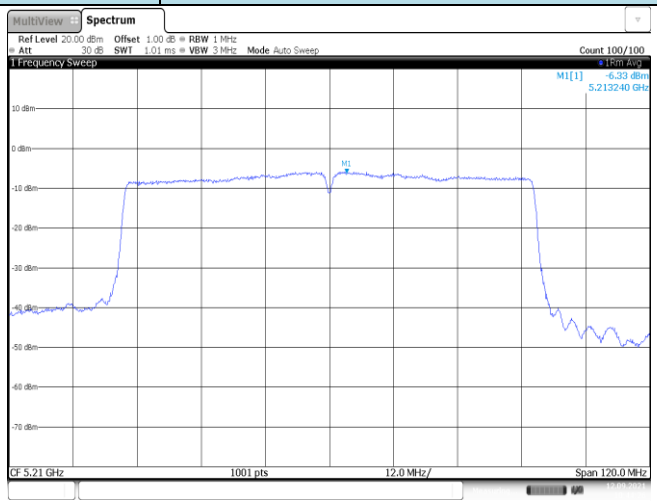
Band I	**802.11ac (HT20)**
CH_L	
CH_M	
CH_H	

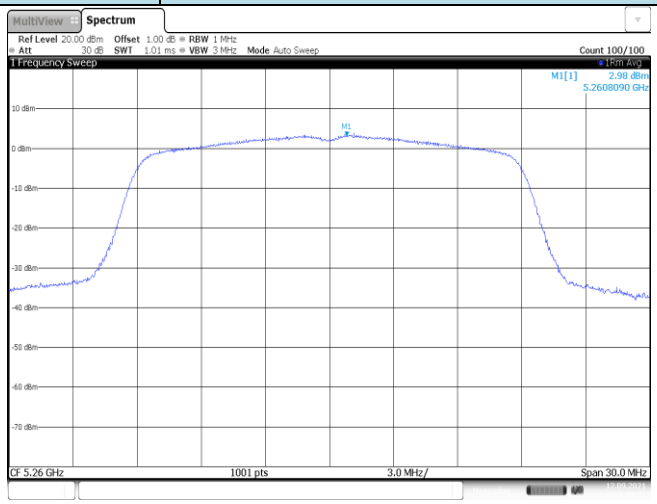
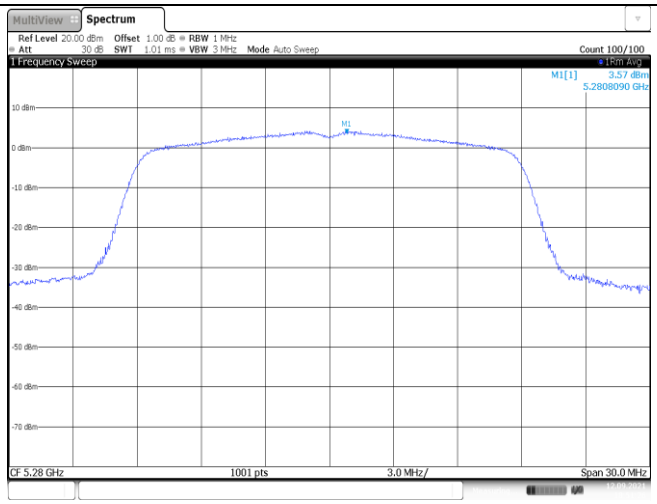
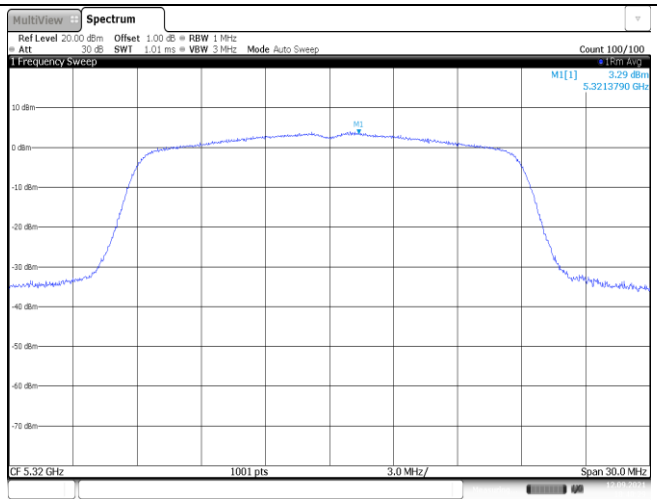
Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

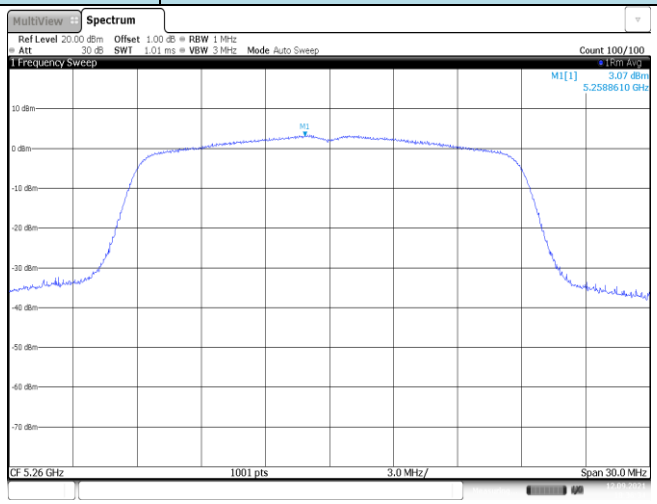
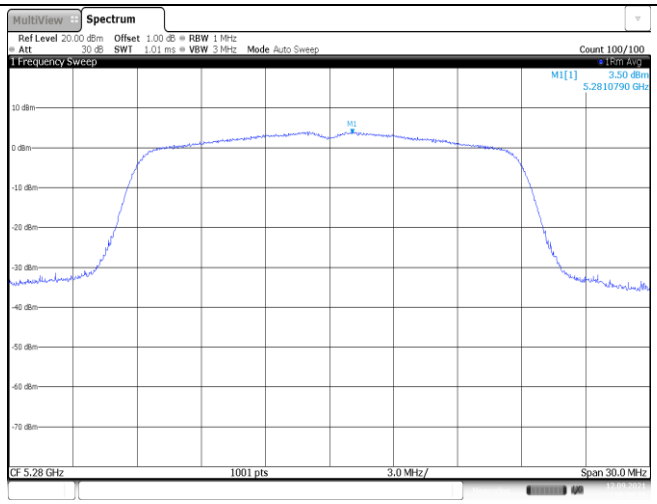
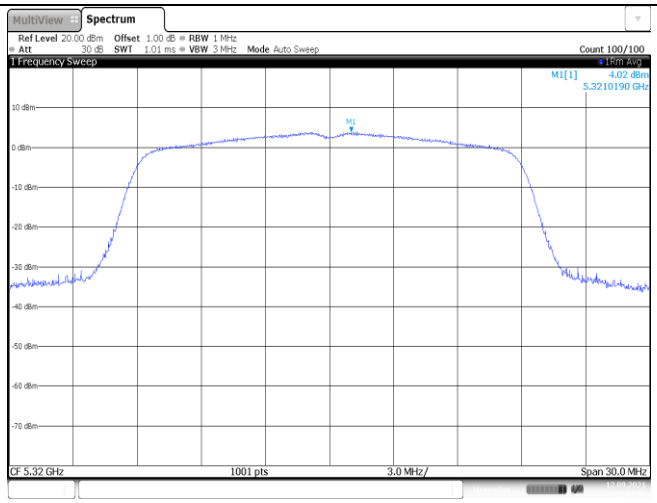
Band I	802.11a
CH_L	
CH_M	
CH_H	

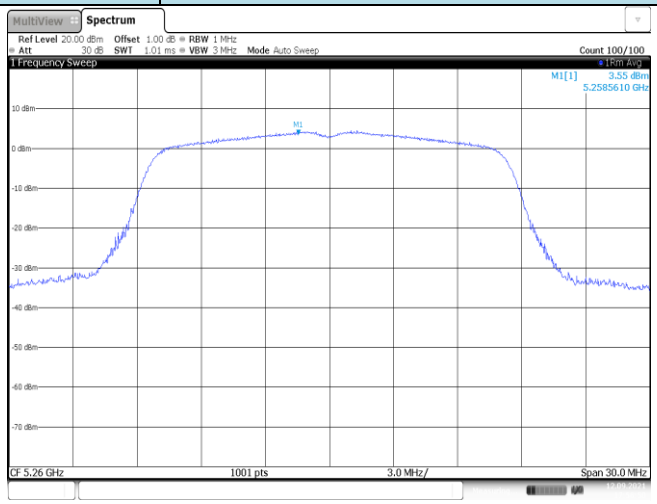
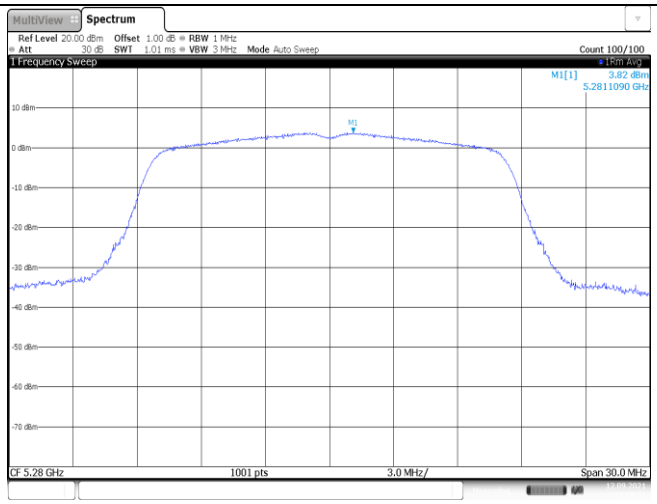
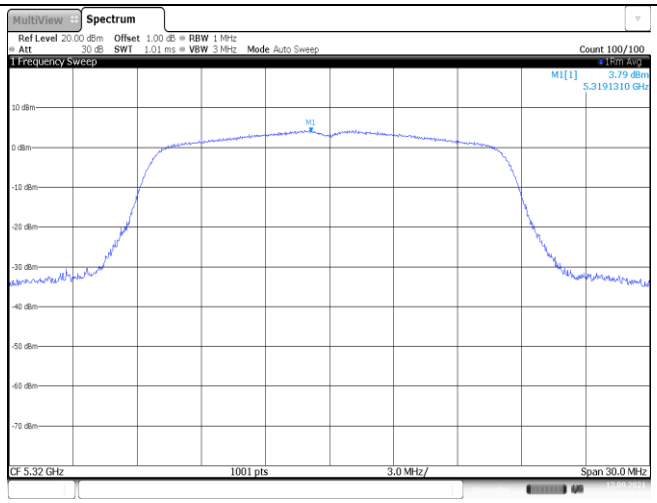
Band I	802.11ac (HT40)
CH_L	
CH_H	

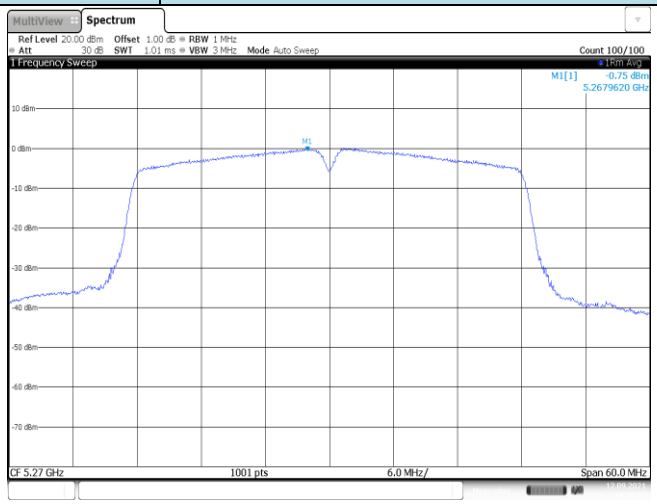
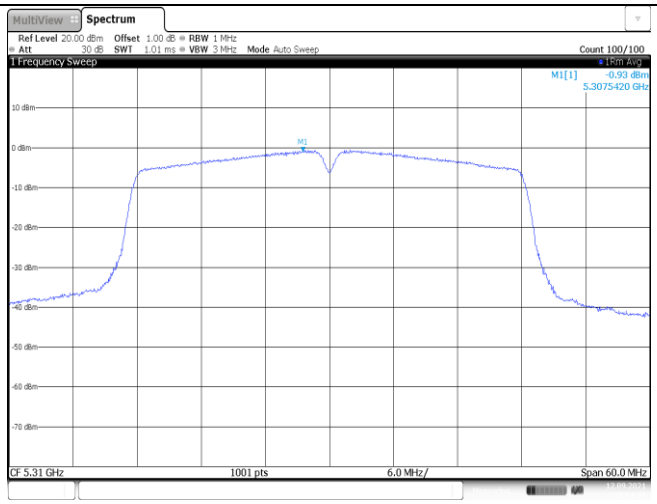
Band I	802.11n (HT40)
CH_L	
CH_H	

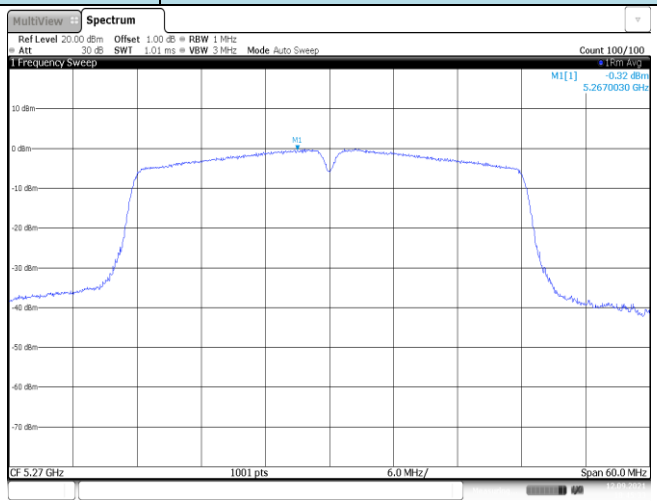
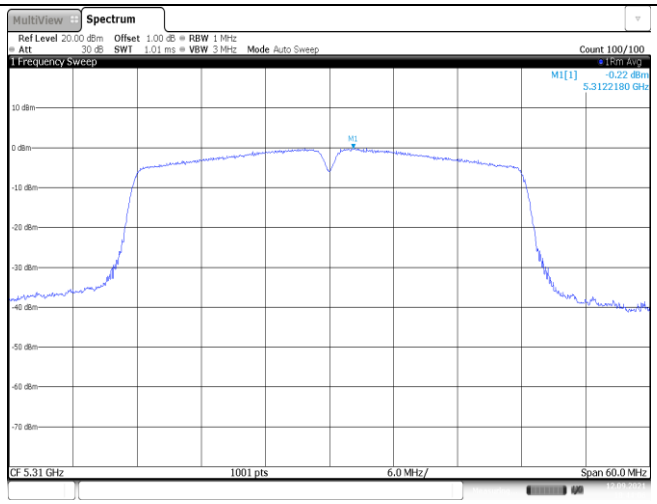
Band I	802.11ac (HT80)
CH_M	

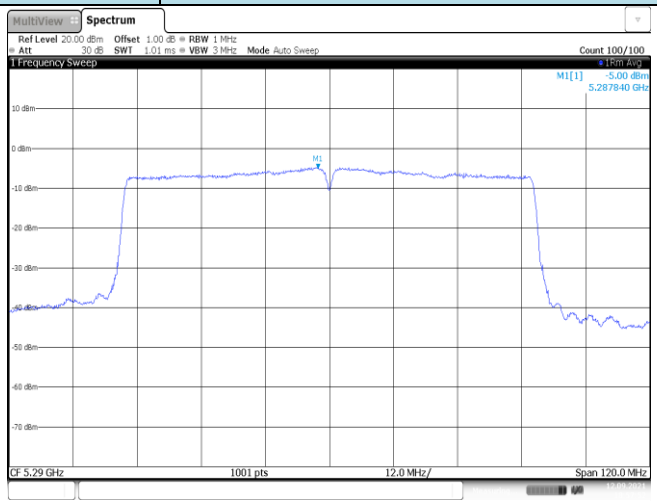
Band II	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

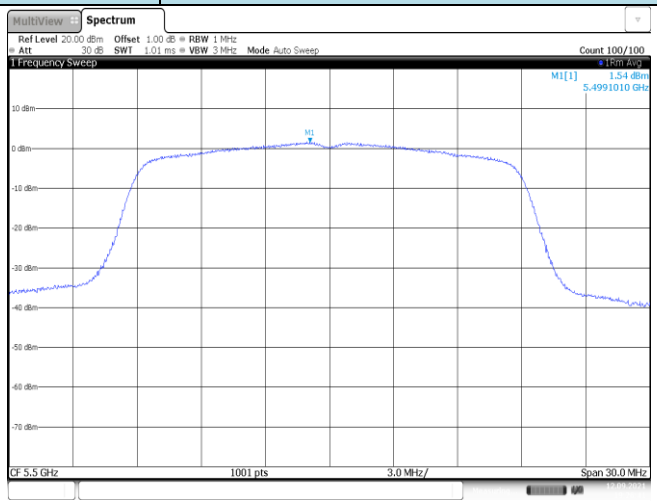
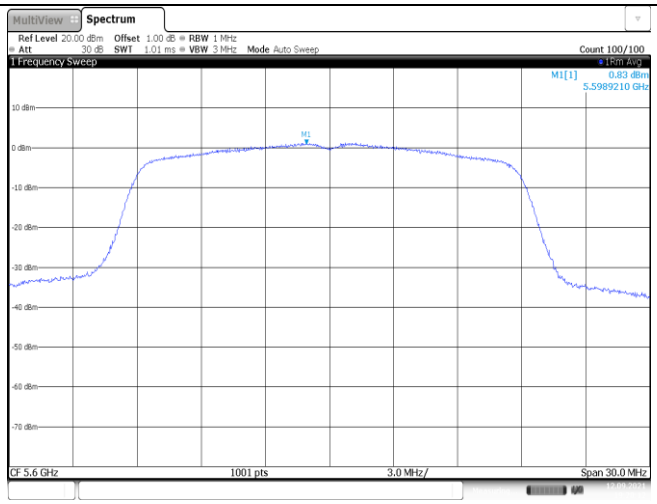
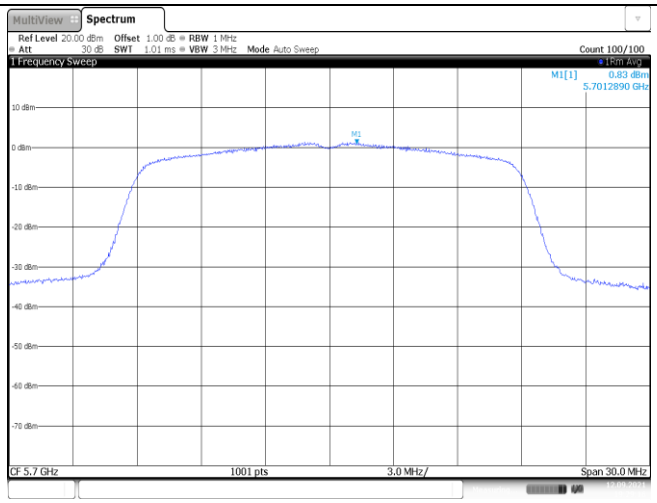
Band II	802.11n (HT20)
CH_L	
CH_M	
CH_H	

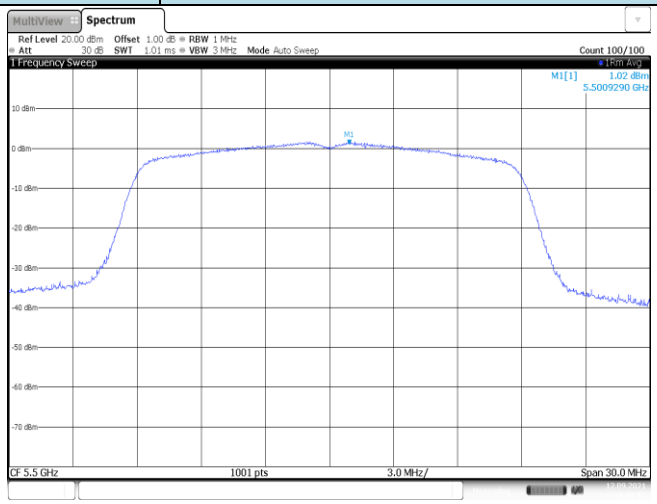
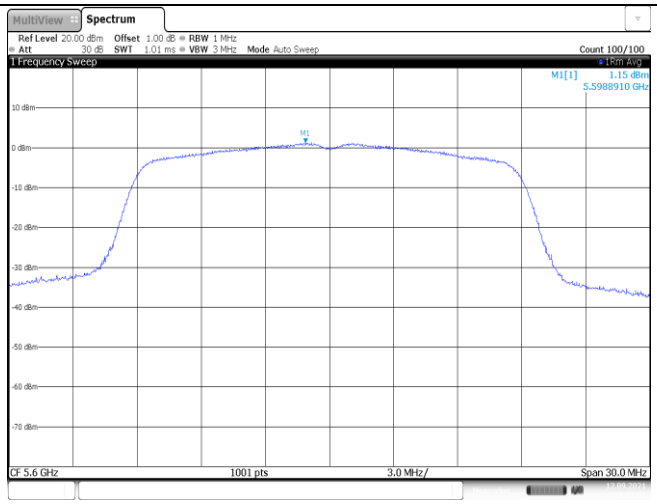
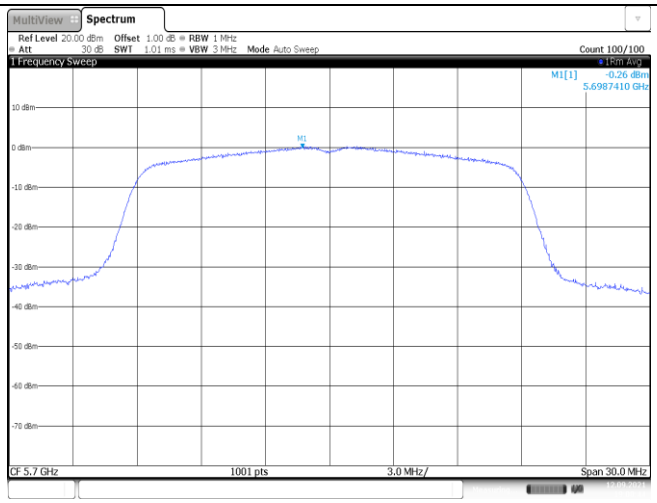
Band II	802.11a
CH_L	
CH_M	
CH_H	

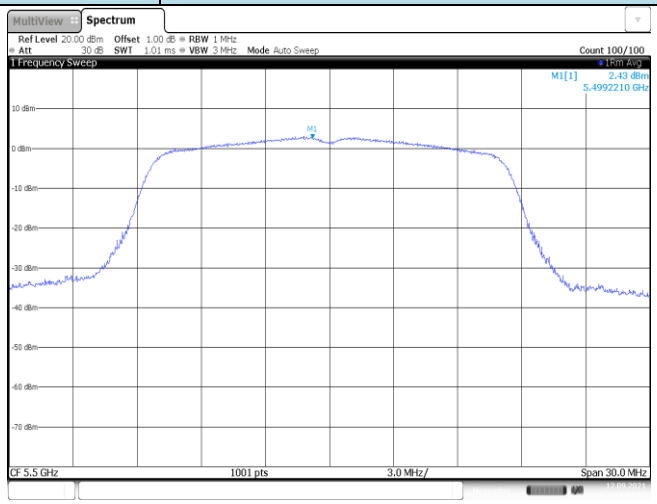
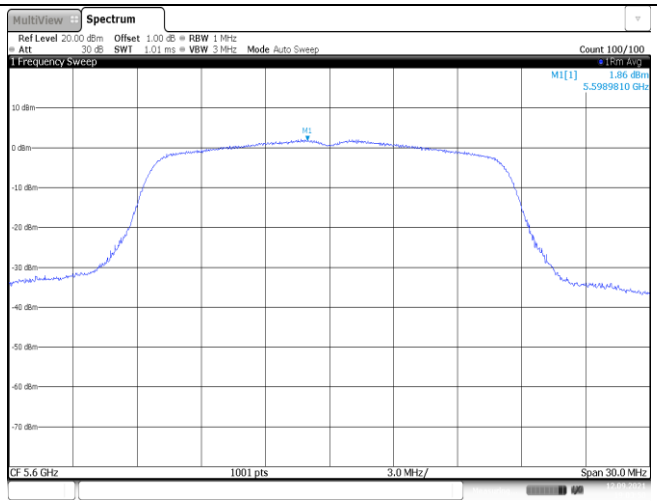
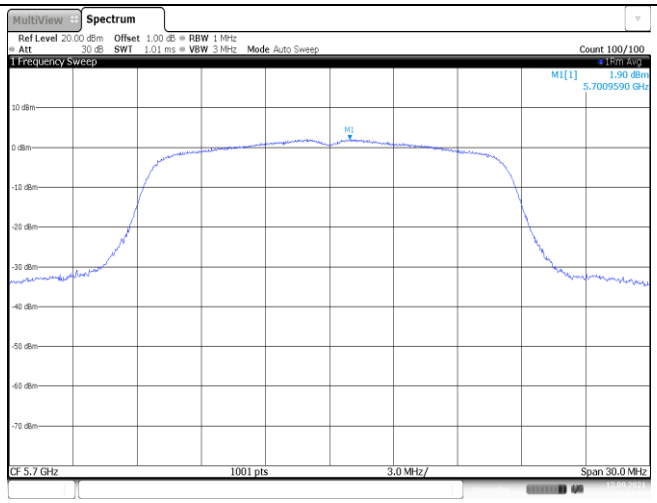
Band II	802.11ac (HT40)
CH_L	
CH_H	

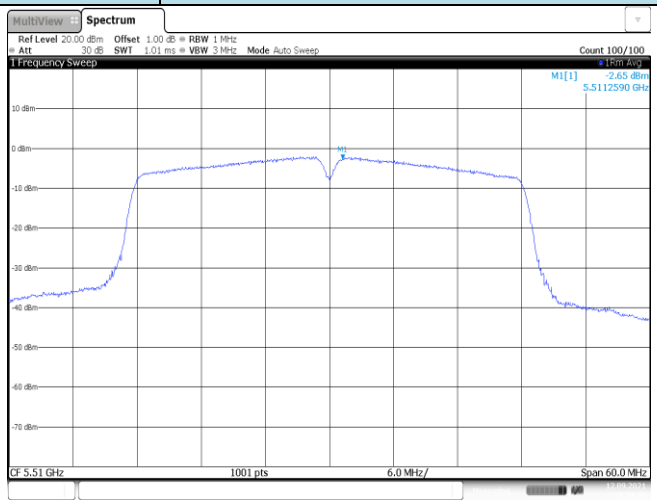
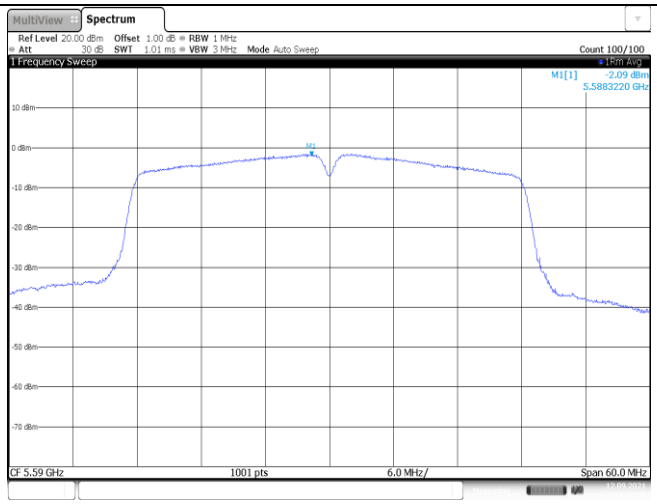
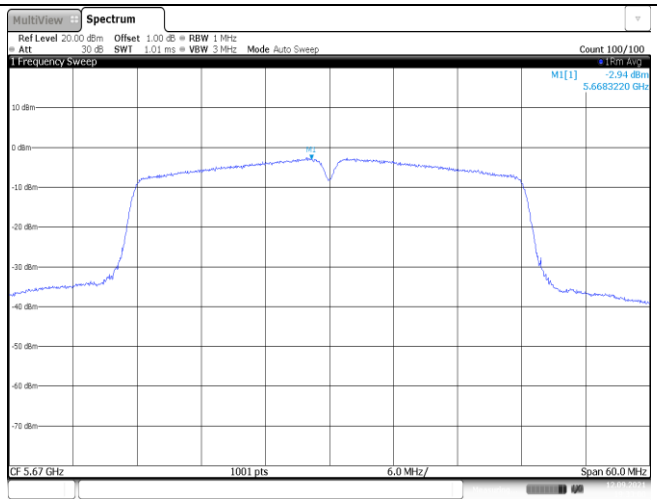
Band II	802.11n (HT40)
CH_L	
CH_H	

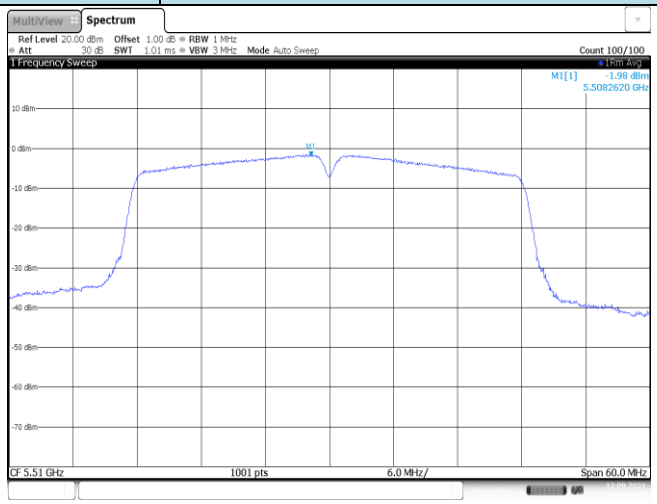
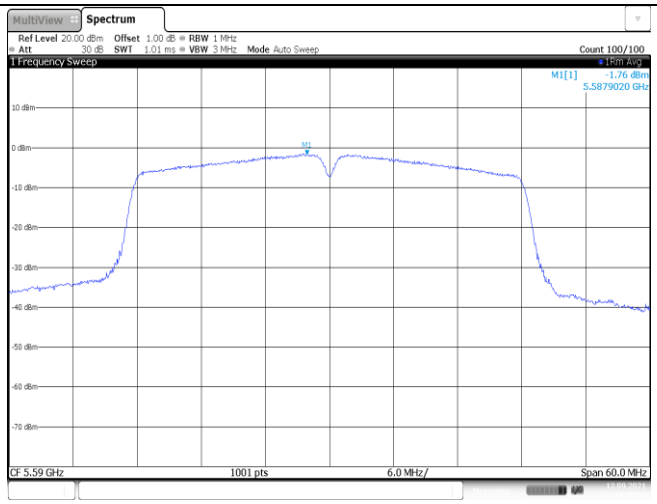
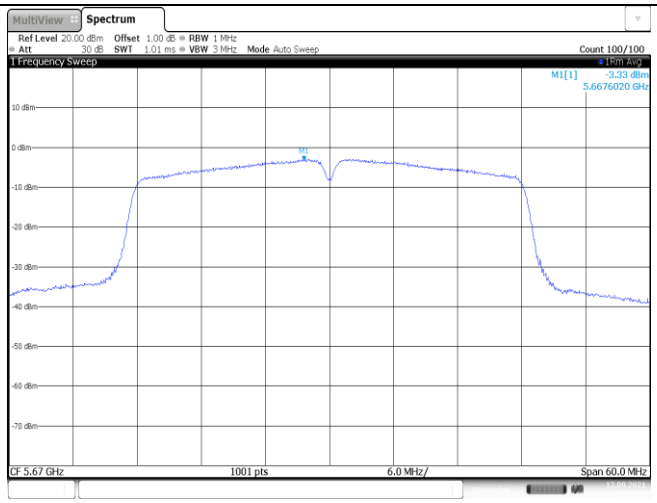
Band II	802.11ac (HT80)
CH_M	

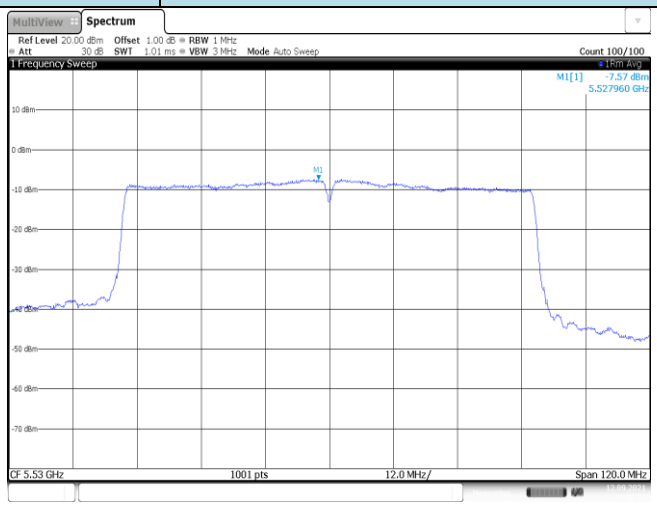
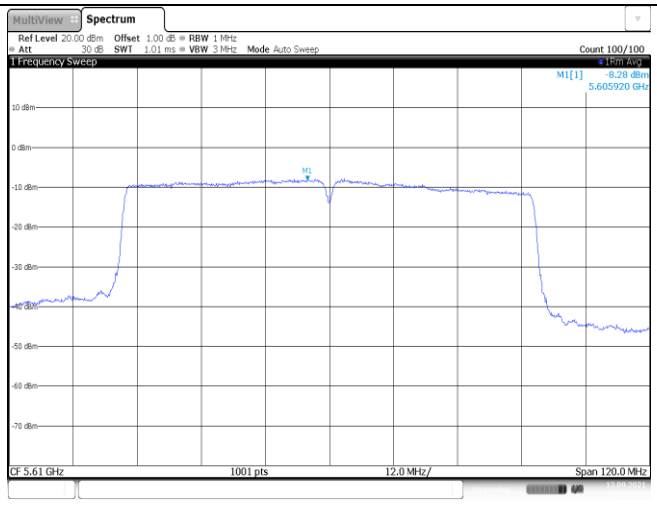
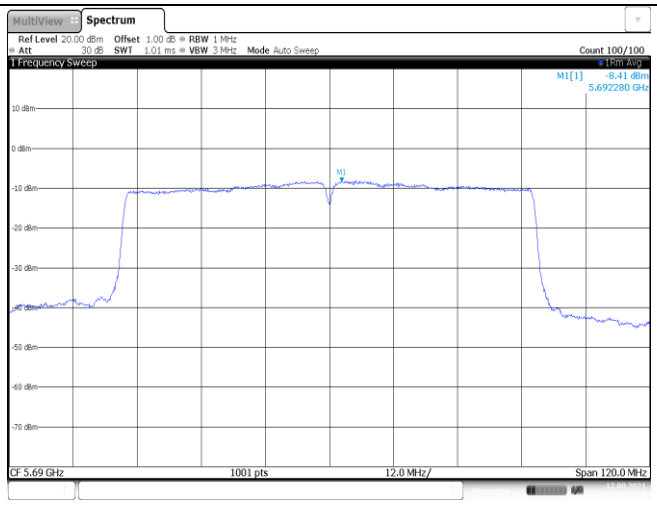
Band III	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

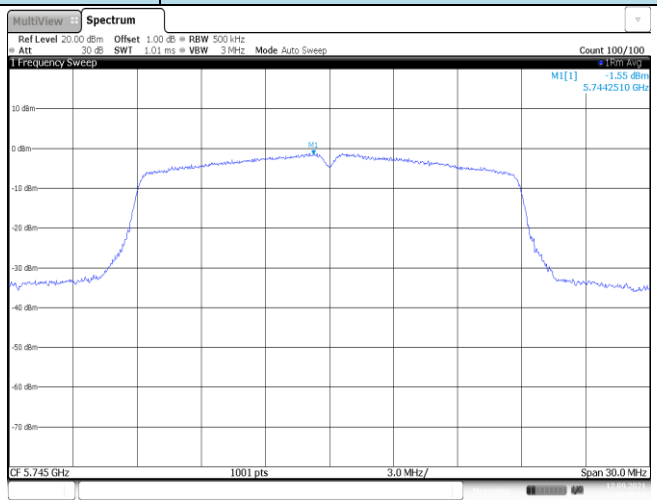
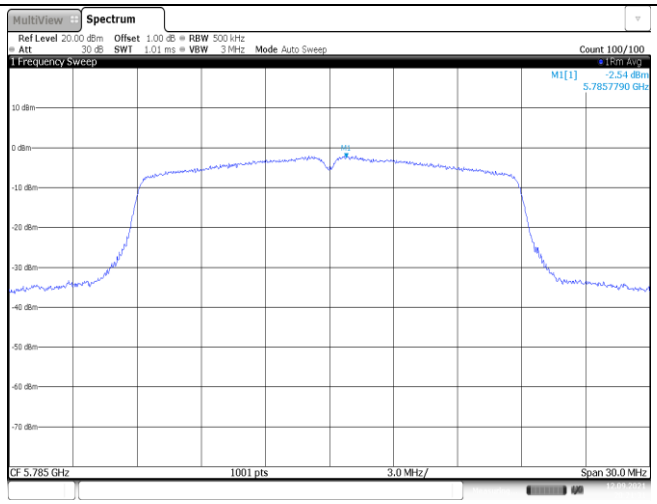
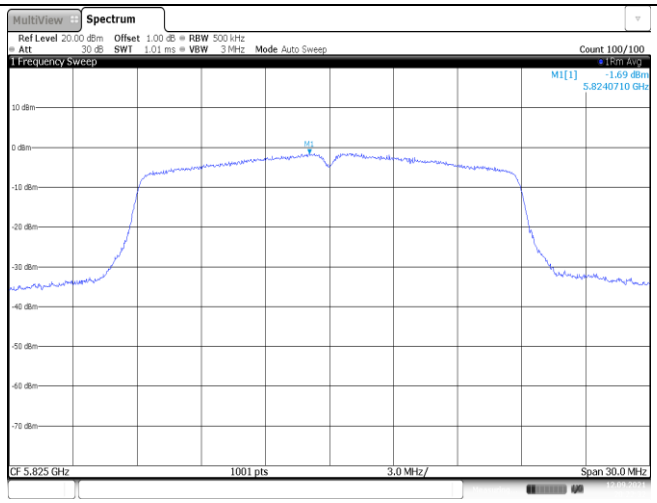
Band III	802.11n (HT20)
CH_L	
CH_M	
CH_H	

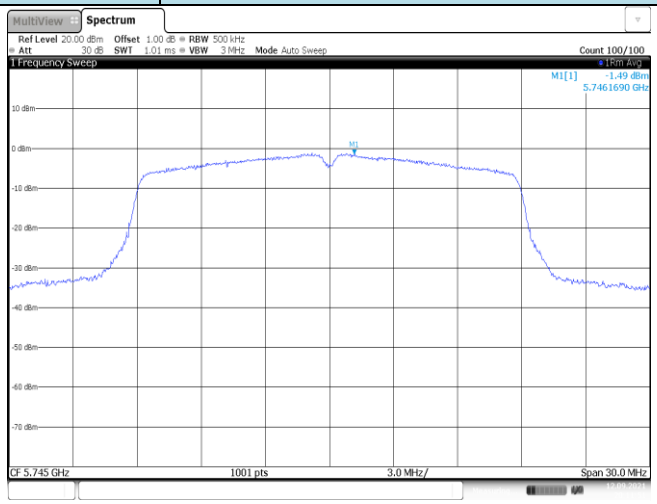
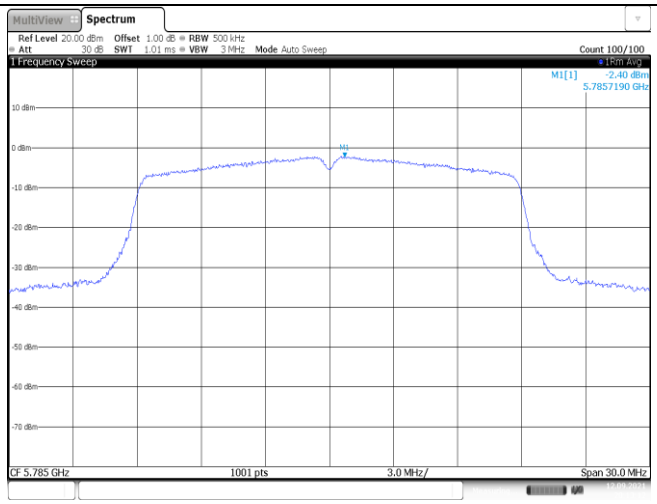
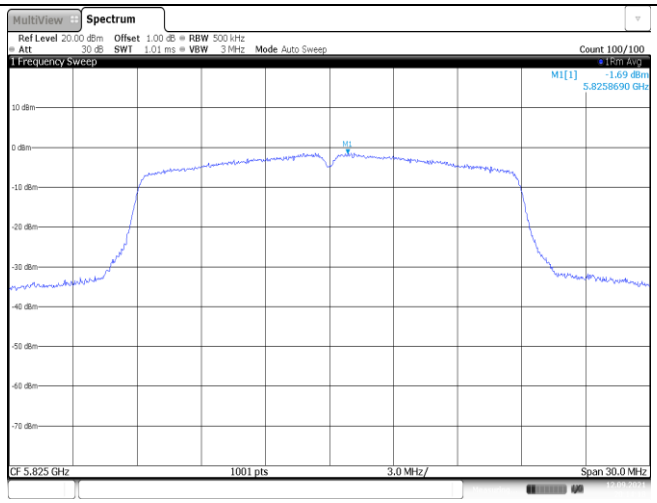
Band III	802.11a
CH_L	
CH_M	
CH_H	

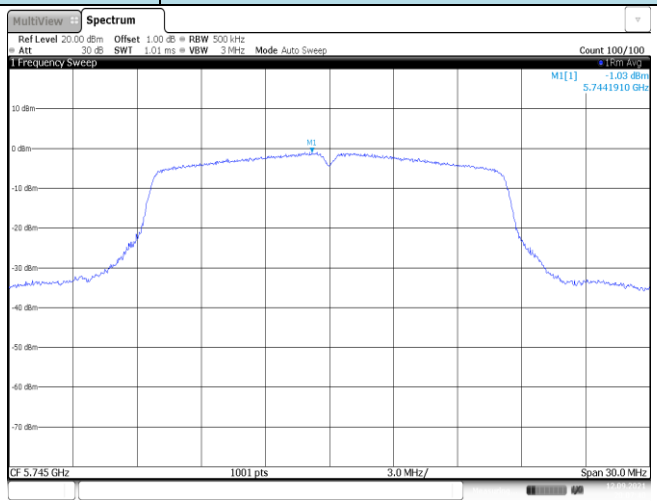
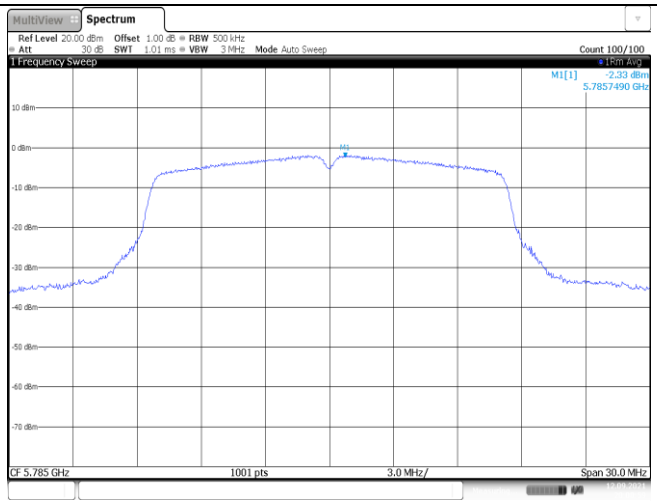
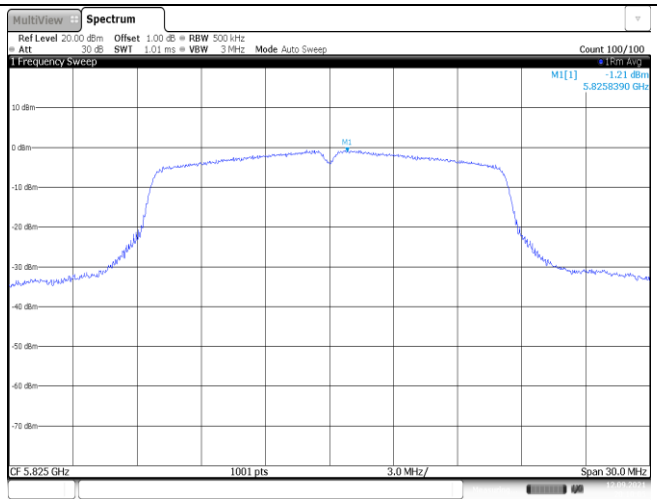
Band III	802.11ac (HT40)
CH_L	
CH_M	
CH_H	

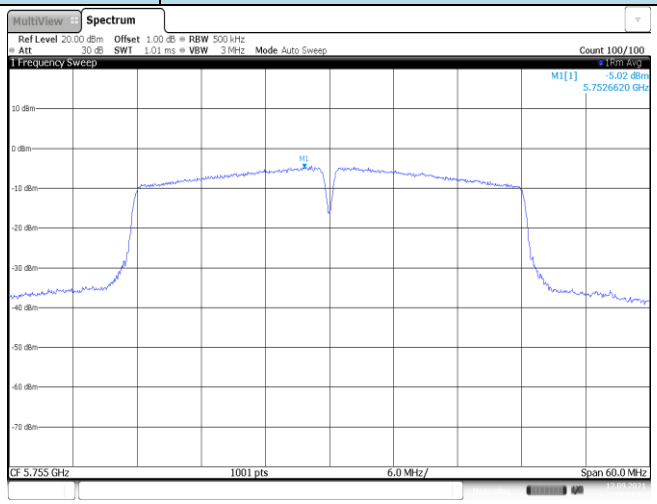
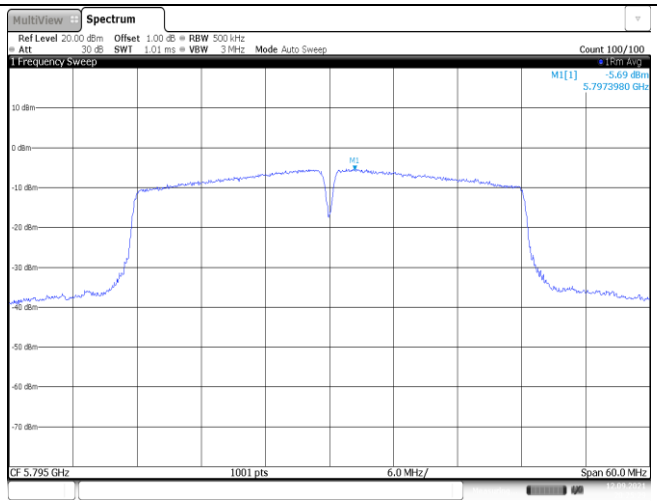
Band III	802.11n (HT40)
CH_L	
CH_M	
CH_H	

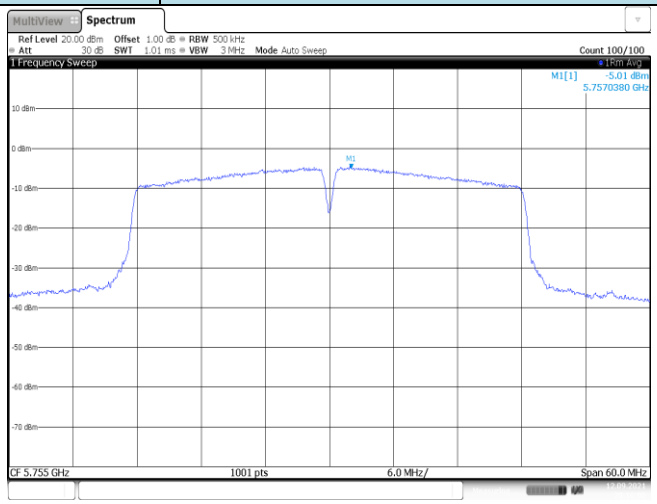
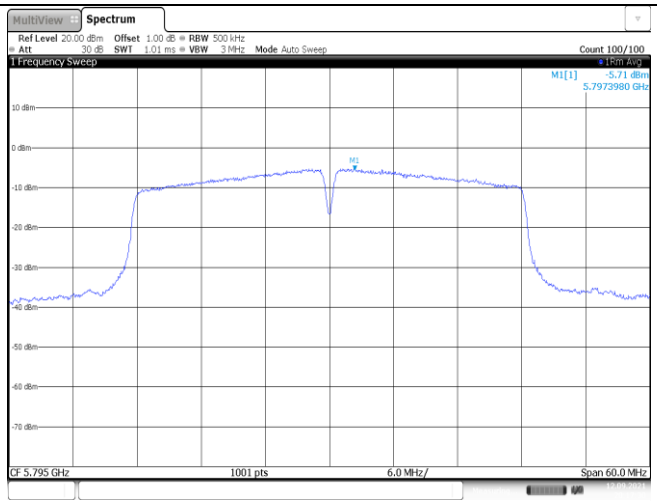
Band III	802.11ac (HT80)
CH_L	
CH_M	
CH_H	

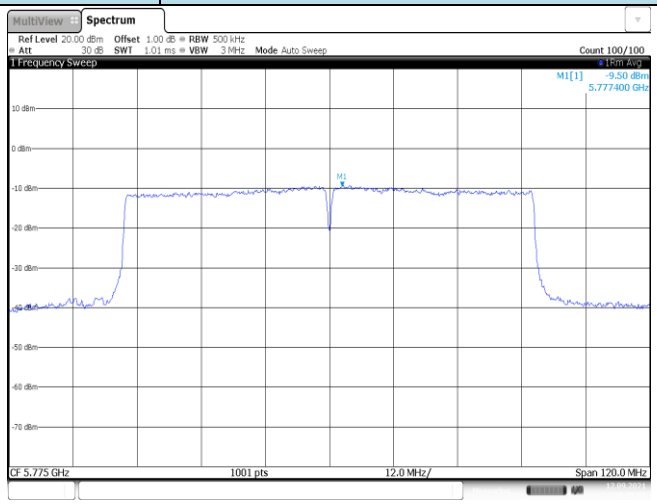
Band IV	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

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	

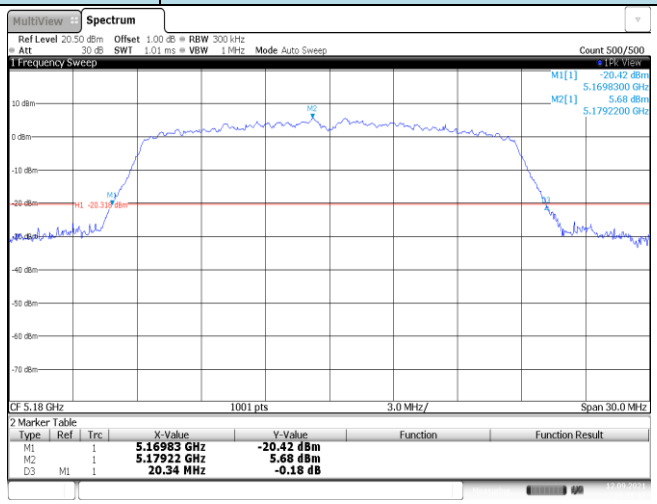
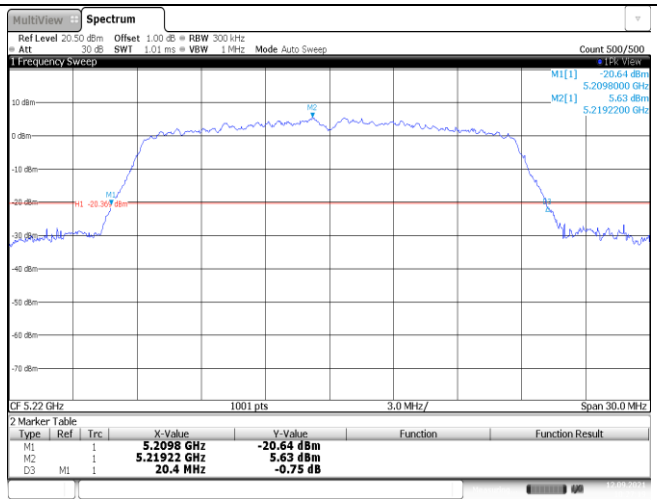
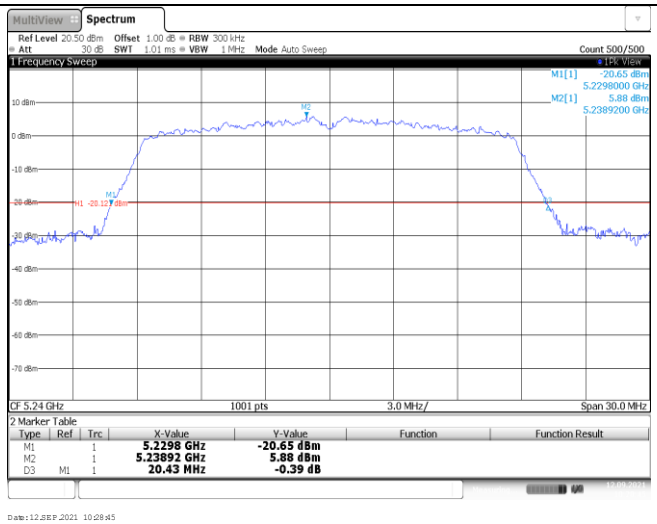
Band IV	802.11n (HT40)
CH_L	
CH_H	

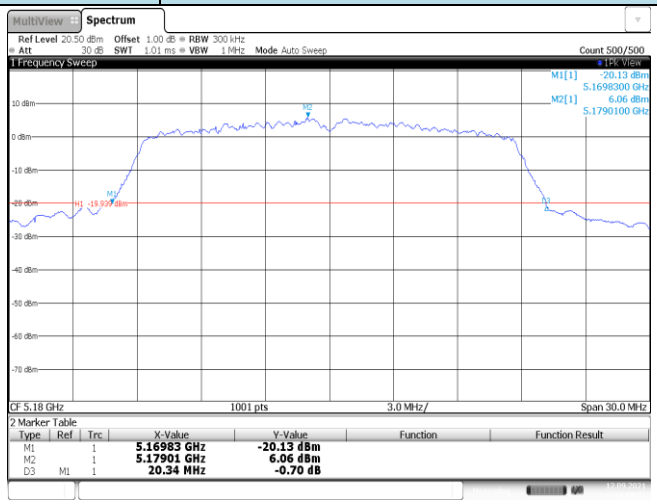
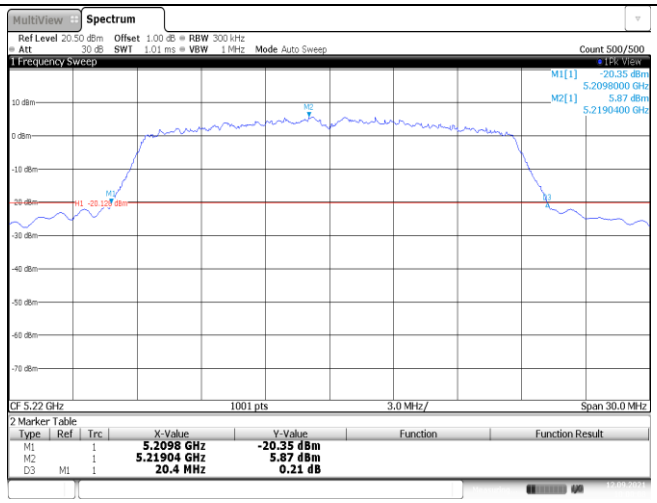
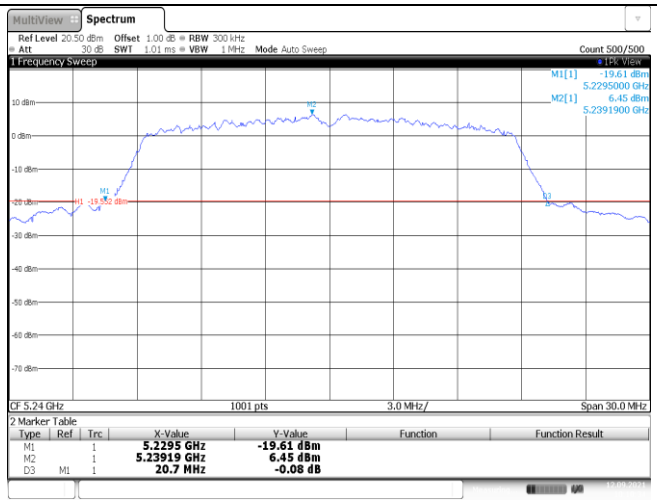
Band IV	802.11ac (HT80)
CH_M	

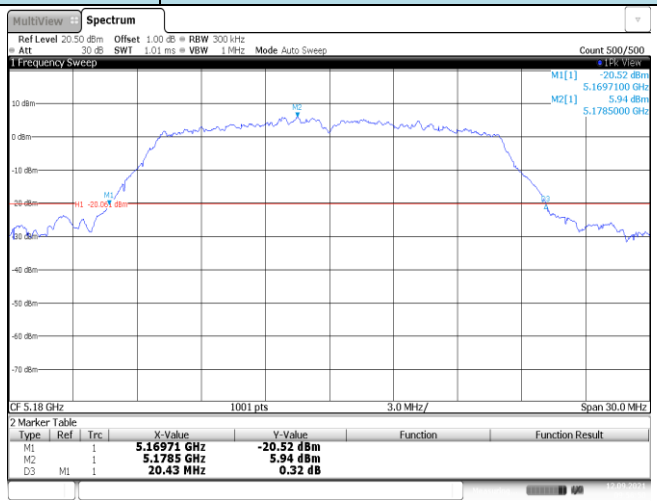
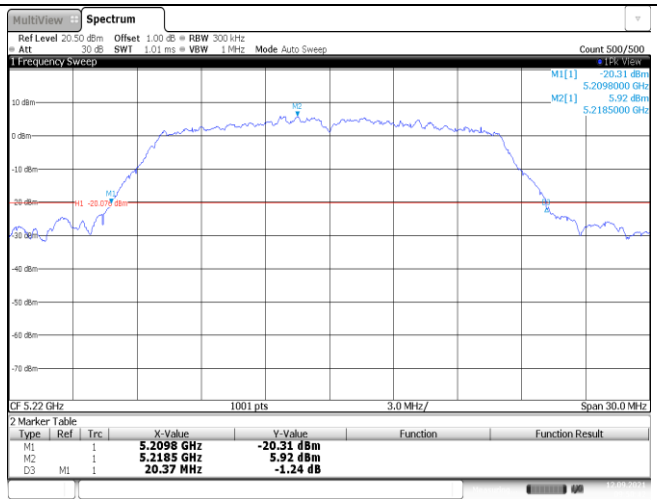
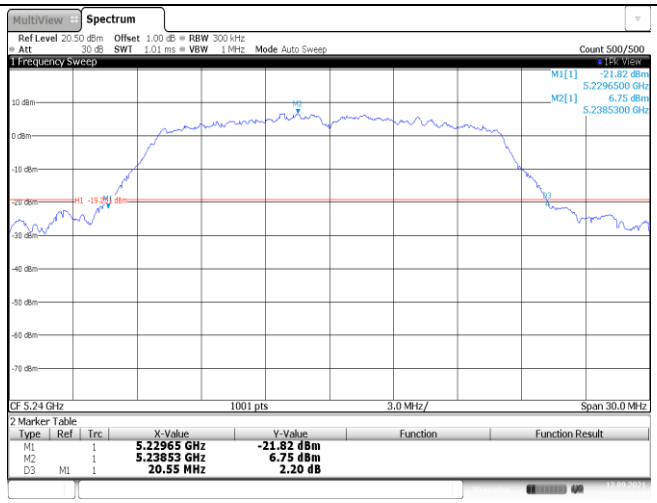
Appendix C：26dB bandwidth

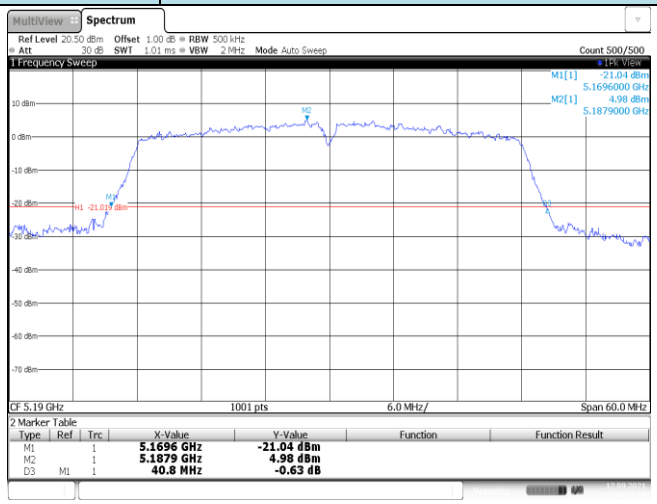
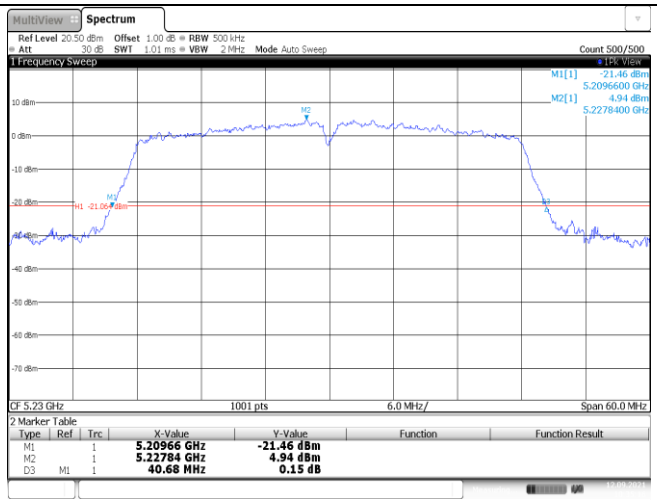
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH_L	20.34	Pass
			CH_M	20.40	
			CH_H	20.43	
		802.11n	CH_L	20.34	Pass
			CH_M	20.40	
			CH_H	20.70	
		802.11a	CH_L	20.43	Pass
			CH_M	20.37	
			CH_H	20.55	
	40	802.11ac	CH_L	40.80	Pass
			CH_H	40.68	
		802.11n	CH_L	40.92	Pass
			CH_H	40.56	
	80	802.11ac	CH_M	82.20	Pass
II	20	802.11ac	CH_L	20.49	Pass
			CH_M	20.46	
			CH_H	20.43	
		802.11n	CH_L	20.46	Pass
			CH_M	20.52	
			CH_H	20.52	
		802.11a	CH_L	20.34	Pass
			CH_M	20.37	
			CH_H	20.67	
	40	802.11ac	CH_L	40.74	Pass
			CH_H	40.80	
		802.11n	CH_L	40.80	Pass
			CH_H	40.86	
	80	802.11ac	CH_M	82.32	Pass

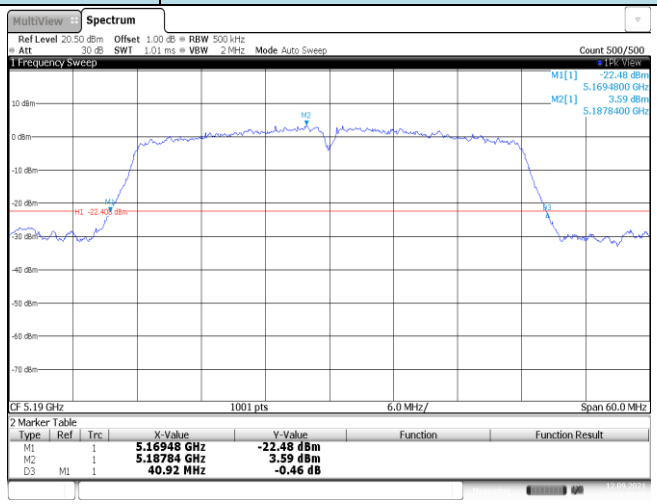
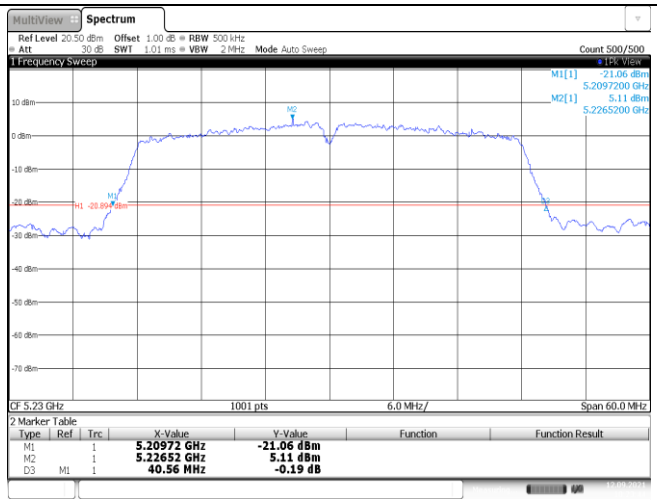
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11ac	CH_L	20.28	Pass
			CH_M	20.37	
			CH_H	20.61	
		802.11n	CH_L	20.43	Pass
			CH_M	20.52	
			CH_H	20.61	
		802.11a	CH_L	20.64	Pass
			CH_M	20.37	
			CH_H	21.09	
	40	802.11ac	CH_L	40.86	Pass
			CH_M	40.68	
			CH_H	41.10	
		802.11n	CH_L	40.80	Pass
			CH_M	40.56	
			CH_H	40.80	
	80	802.11ac	CH_L	82.32	Pass
			CH_M	82.56	
			CH_H	82.44	

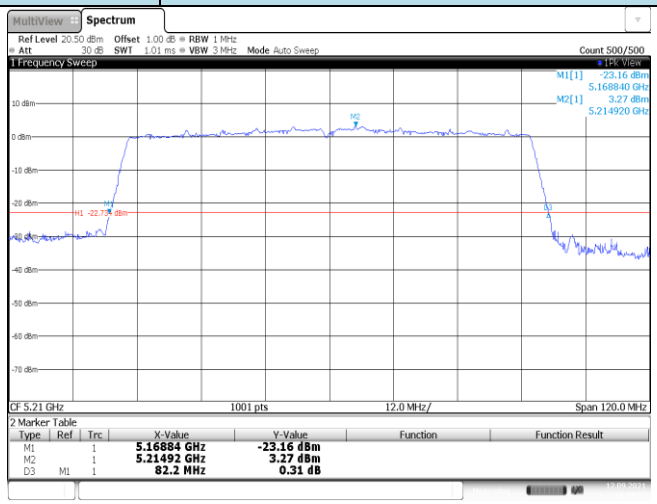
Band I	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

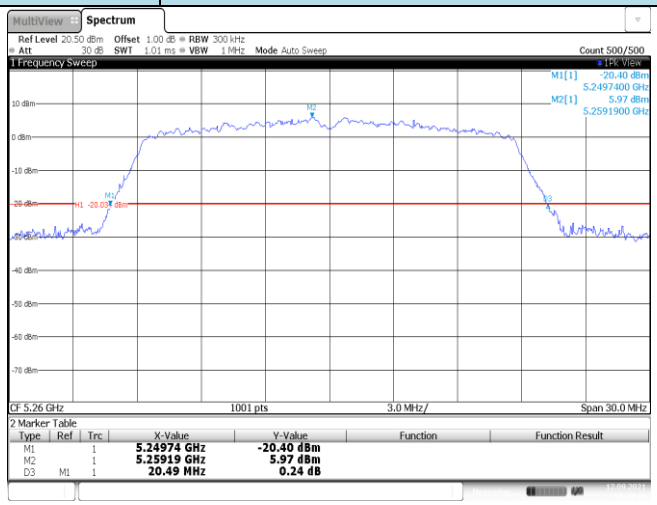
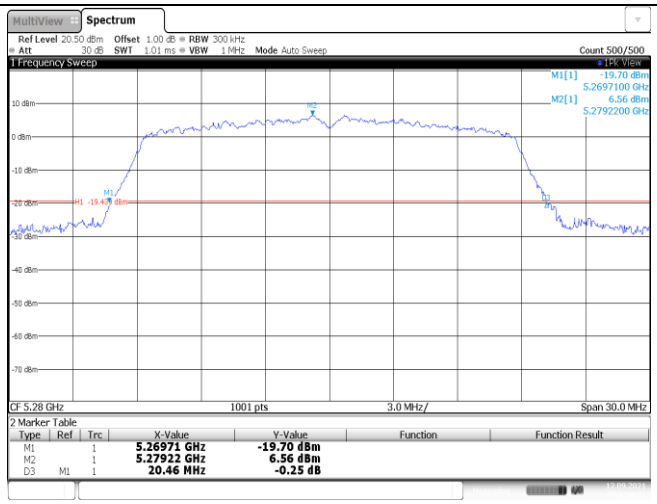
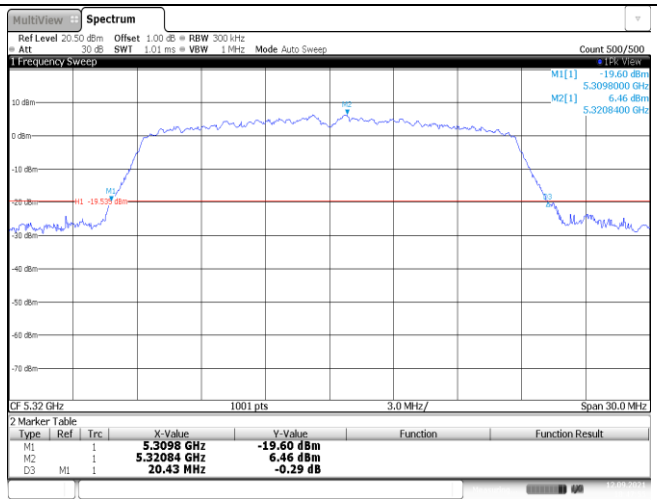
Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

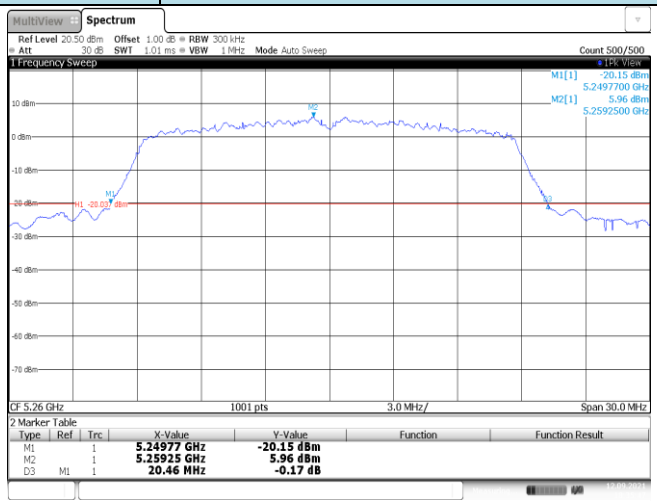
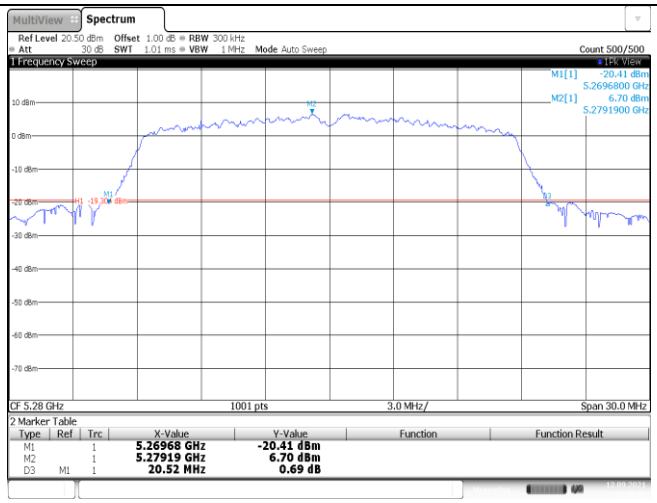
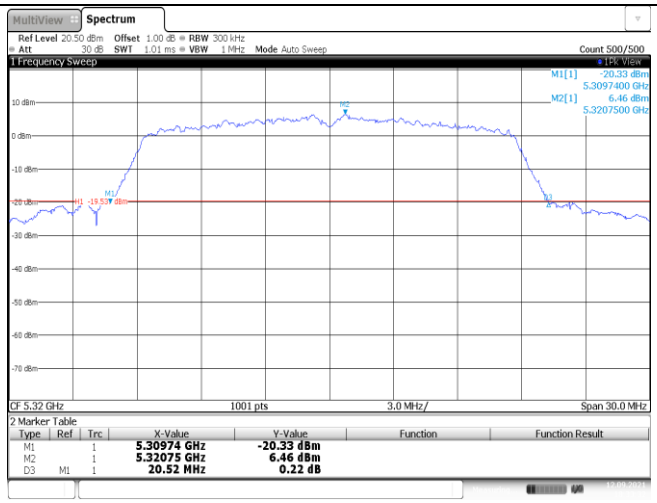
Band I	802.11a
CH_L	
CH_M	
CH_H	

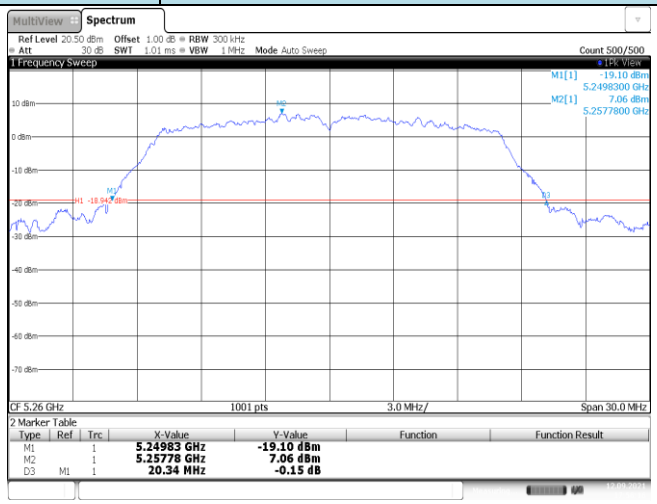
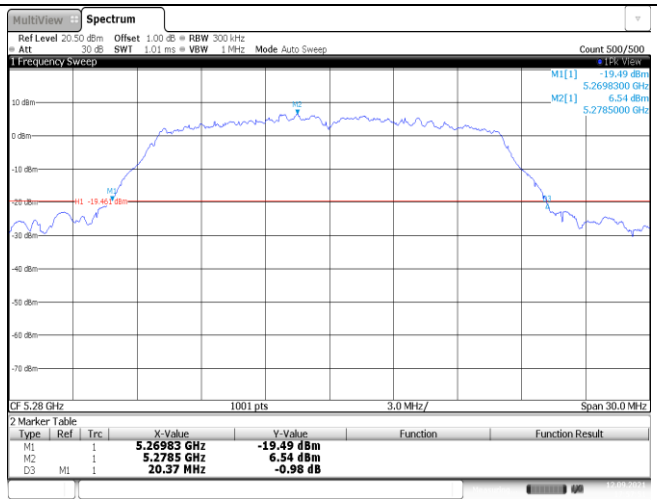
Band I	802.11ac (HT40)
CH_L	
CH_H	

Band I	802.11n (HT40)
CH_L	
CH_H	

Band I	802.11ac (HT80)
CH_M	

Band II	802.11ac (HT20)
CH_L	
CH_M	
CH_H	

Band II	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band II	802.11a
CH_L	
CH_M	
CH_H