APPENDIX A – TEST DATA OF CONDUCTED EMISSION
Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5260	99.26%	0
802.11n HT20	5260	99.18%	0
802.11ac VHT20	5260	99.17%	0
802.11n HT40	5270	98.47%	0
802.11ac VHT40	5270	98.47%	0
802.11ac VHT80	5290	96.83%	0.14

Note: Correction Factor=10*log (1/Duty Cycle)

Output Power

Mode	Tones/RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	11.57	9.57
802.11a	NA	5280	Chain0	11.72	9.72
802.11a	NA	5320	Chain0	11.57	9.57
802.11n HT20	NA	5260	Chain0	11.53	9.53
802.11n HT20	NA	5280	Chain0	11.71	9.71
802.11n HT20	NA	5320	Chain0	11.53	9.53
802.11ac VHT20	NA	5260	Chain0	11.53	9.53
802.11ac VHT20	NA	5280	Chain0	11.71	9.71
802.11ac VHT20	NA	5320	Chain0	11.53	9.53
802.11n HT40	NA	5270	Chain0	11.39	9.39
802.11n HT40	NA	5310	Chain0	11.47	9.47
802.11ac VHT40	NA	5270	Chain0	11.39	9.39
802.11ac VHT40	NA	5310	Chain0	11.45	9.45
802.11ac VHT80	NA	5290	Chain0	11.22	9.22

Emission Bandwidth
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	22.72	21.53	21.64
802.11n HT20	Chain0	22.59	23.31	22.13
802.11ac VHT20	Chain0	22.42	23.59	23.17

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	41.80	---	41.96
802.11ac VHT40	Chain0	41.93	---	41.51

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	84.25	---	---

Test Mode: 802.11a
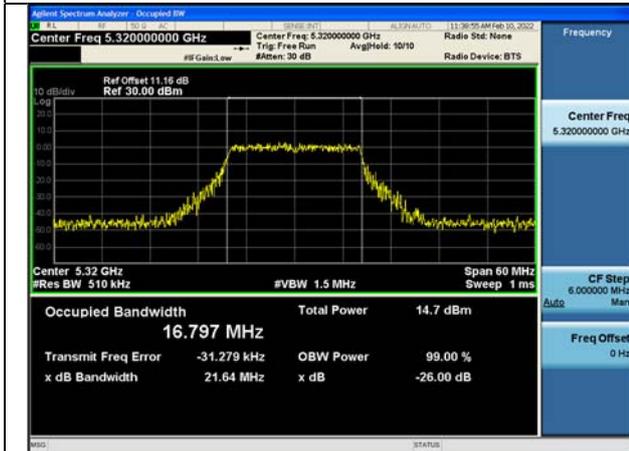
Test Mode:802.11a 5260MHz Chain0

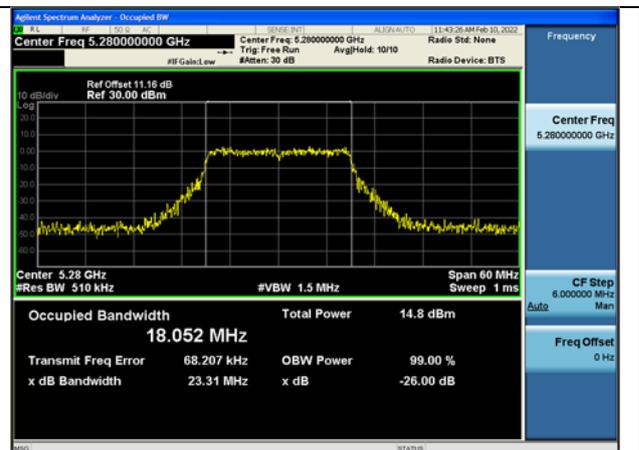
Test Mode:802.11a 5280MHz Chain0
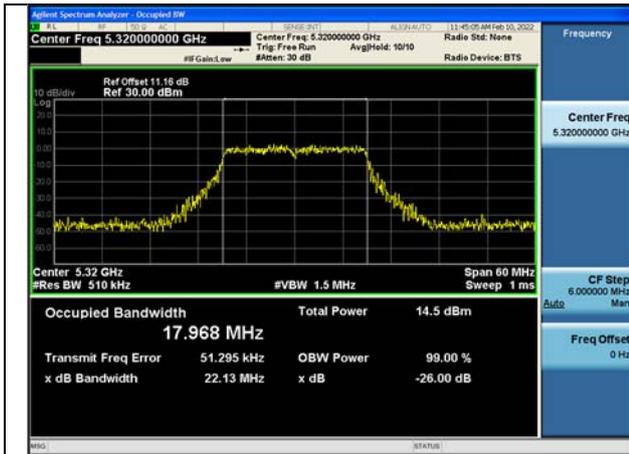

Test Mode:802.11a 5320MHz Chain0

Test Mode: 802.11n HT20
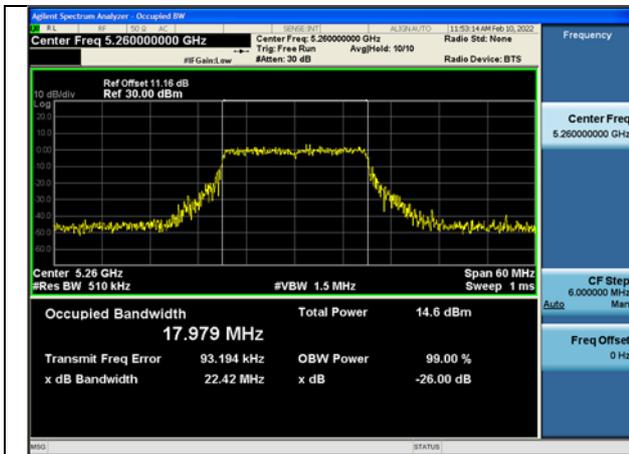

Test Mode:802.11n HT20 5260MHz Chain0
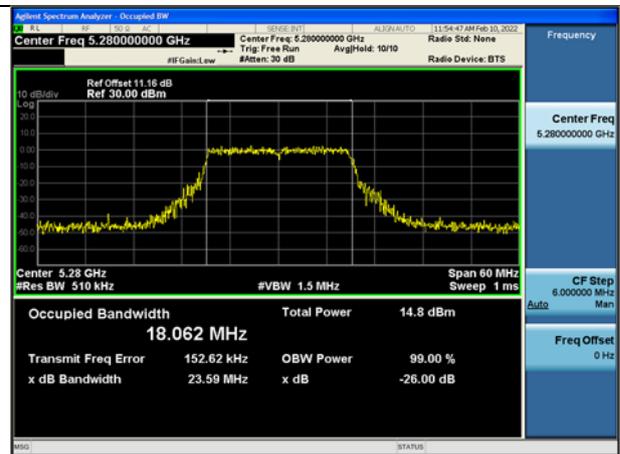

Test Mode:802.11n HT20 5280MHz Chain0

Test Mode:802.11n HT20 5320MHz Chain0

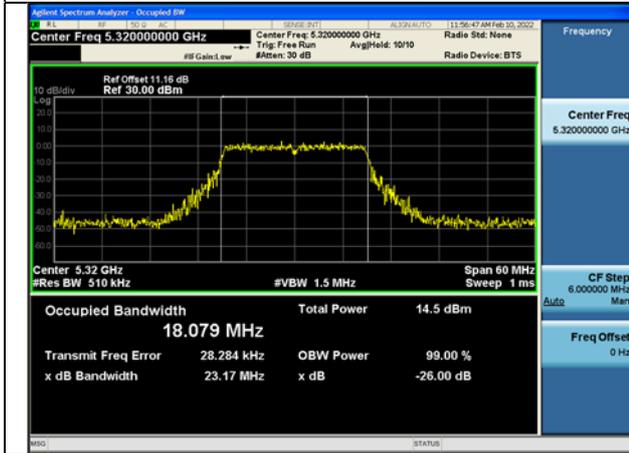## Test Mode: 802.11ac VHT20

Test Mode:802.11ac VHT20 5260MHz Chain0
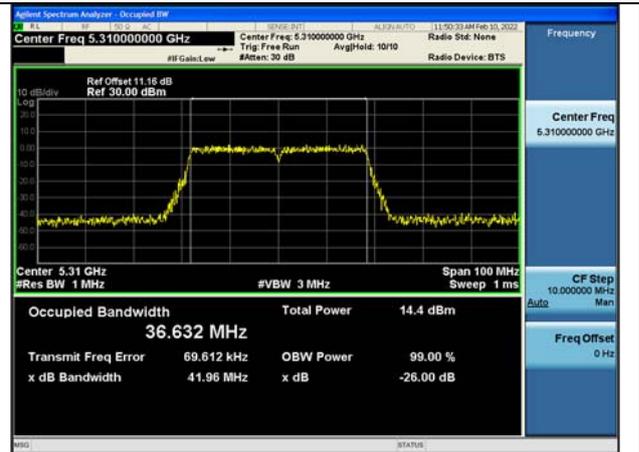

Test Mode:802.11ac VHT20 5280MHz Chain0

Test Mode:802.11ac VHT20 5320MHz Chain0
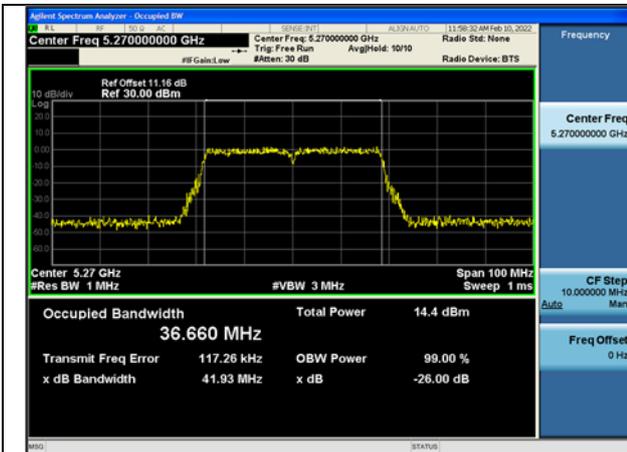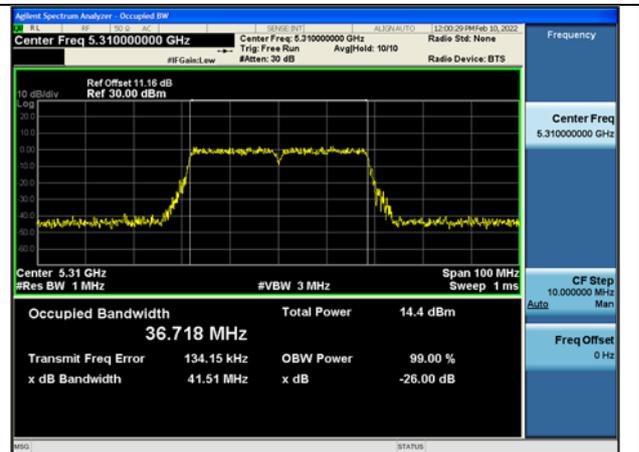
Test Mode: 802.11n HT40

Test Mode:802.11n HT40 5270MHz Chain0	Test Mode:802.11n HT40 5310MHz Chain0

Test Mode: 802.11ac VHT40

Test Mode:802.11ac VHT40 5270MHz Chain0	Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80

Test Mode:802.11ac VHT80 5290MHz Chain0	

Occupied Bandwidth

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.570	Channel No.574	Channel No.582
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	16.844	16.822	16.757
802.11n HT20	Chain0	18.052	17.948	18.011
802.11ac VHT20	Chain0	17.972	18.069	18.043

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.572	---	Channel No.580
		5270MHz	---	5310MHz
802.11n HT40	Chain0	36.600	---	36.698
802.11ac VHT40	Chain0	36.602	---	36.646

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.576	---	---
		5290MHz	---	---
802.11ac VHT80	Chain0	76.515	---	---

Test Mode: 802.11a
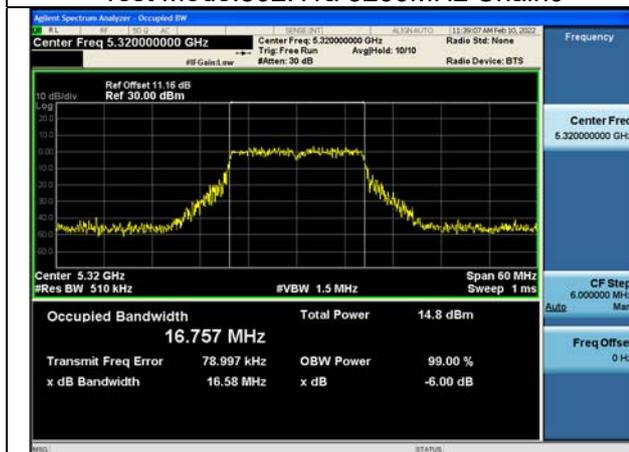
Test Mode:802.11a 5260MHz Chain0	Test Mode:802.11a 5280MHz Chain0
Test Mode:802.11a 5320MHz Chain0	

Test Mode: 802.11n HT20

Test Mode:802.11n HT20 5260MHz Chain0	Test Mode:802.11n HT20 5280MHz Chain0
Test Mode:802.11n HT20 5320MHz Chain0	

Test Mode: 802.11ac VHT20

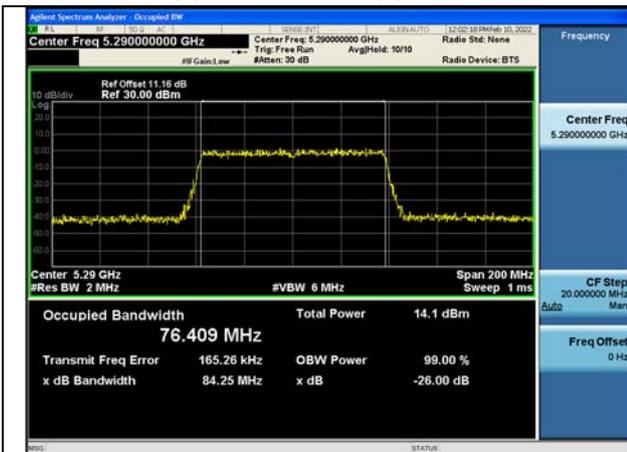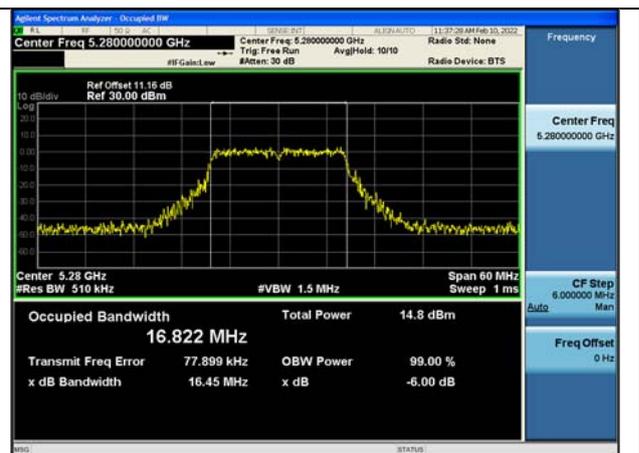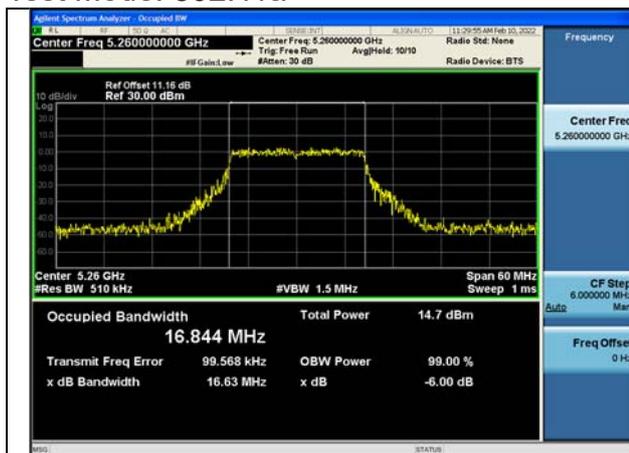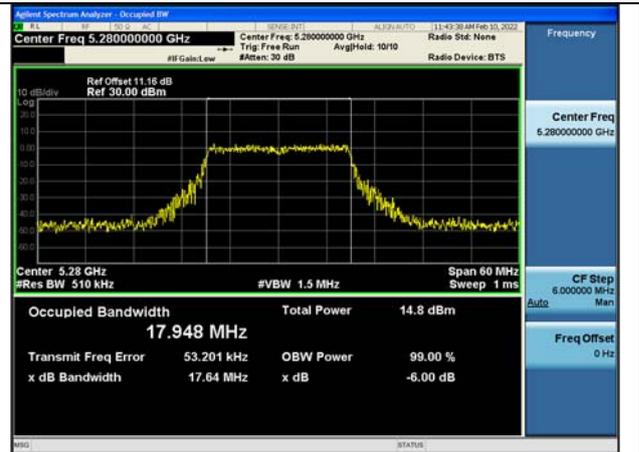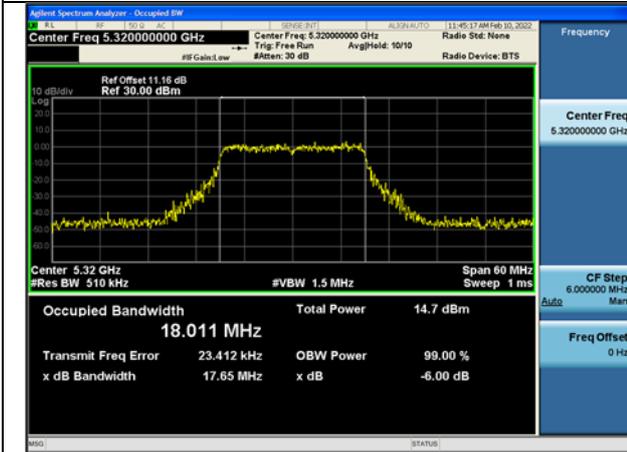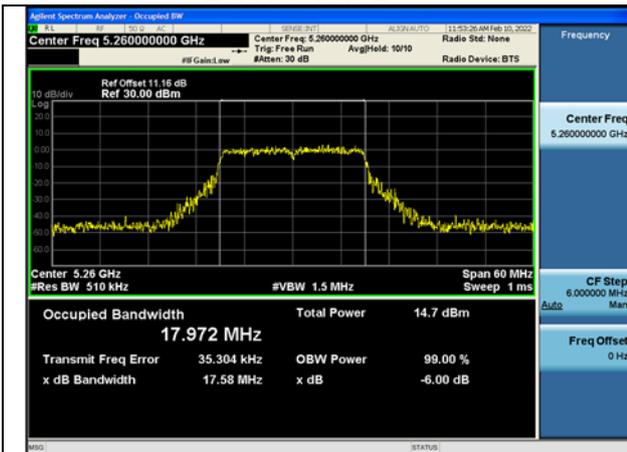|	
Test Mode:802.11ac VHT20 5260MHz Chain0	Test Mode:802.11ac VHT20 5280MHz Chain0

Test Mode:802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40

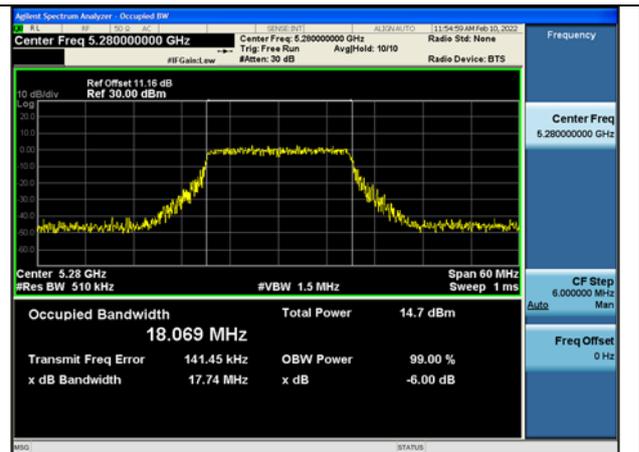Test Mode:802.11n HT40 5270MHz Chain0

Test Mode:802.11n HT40 5310MHz Chain0

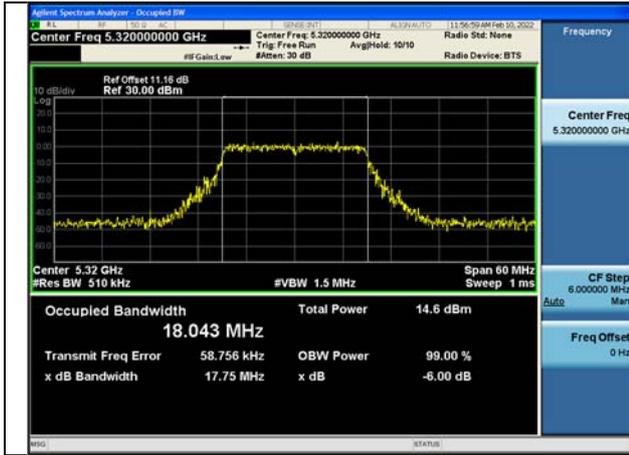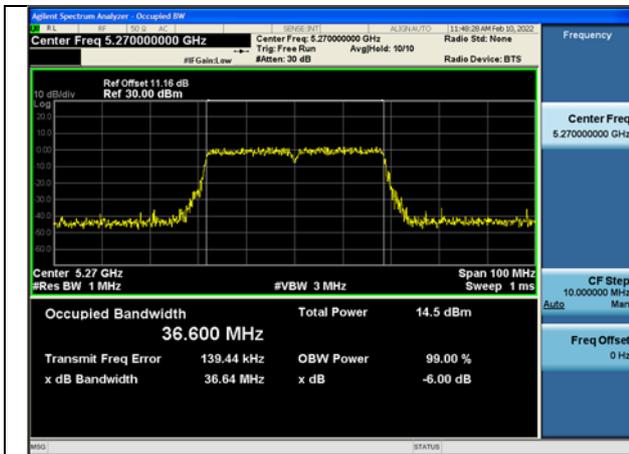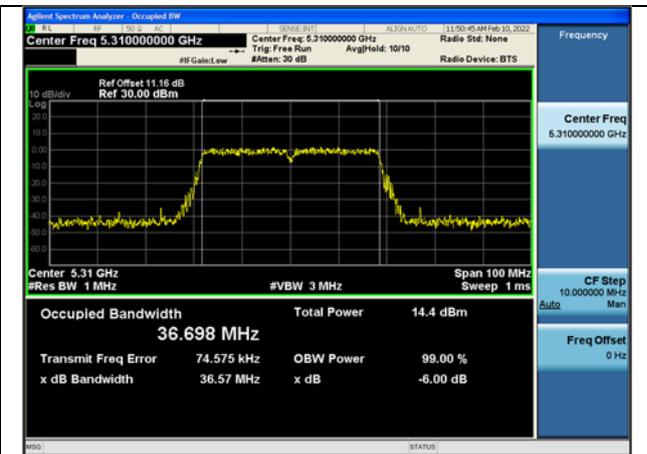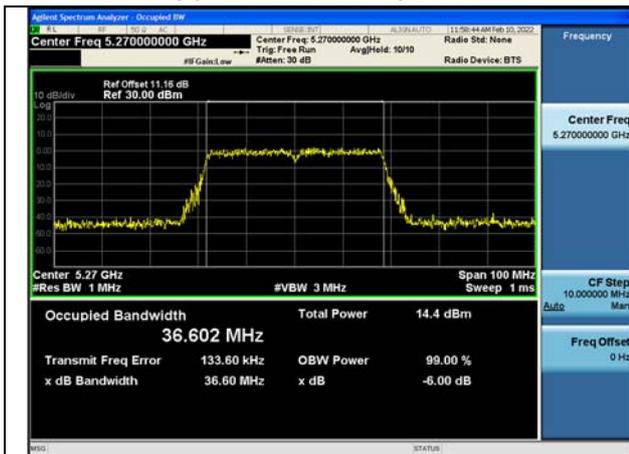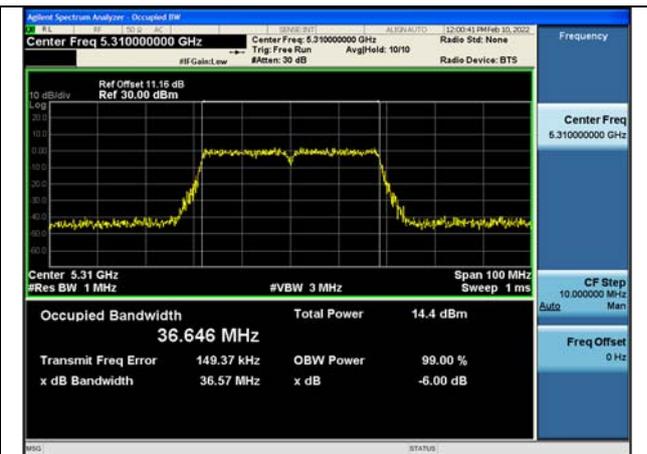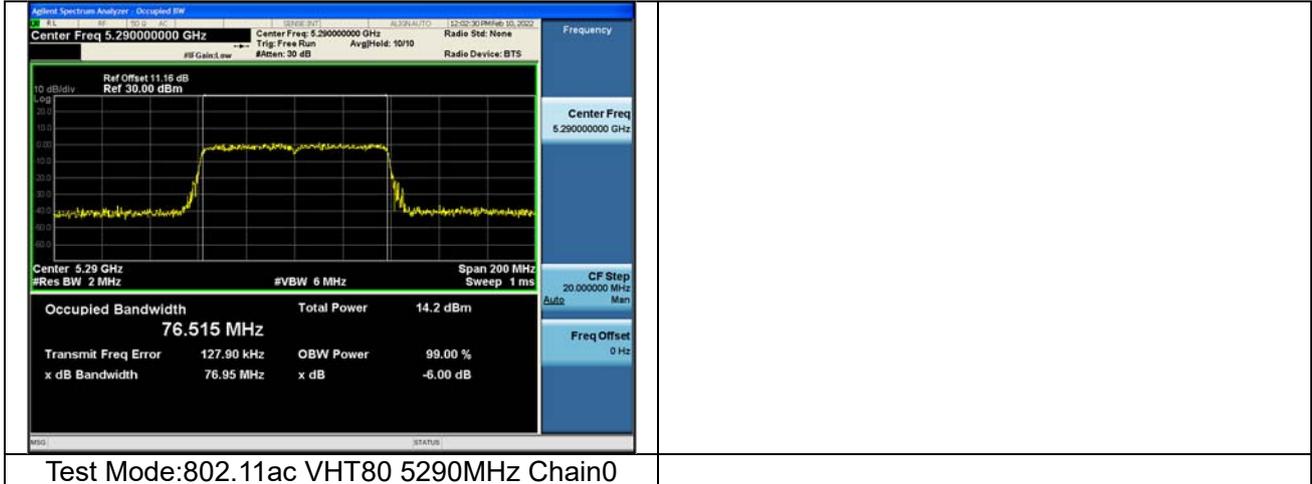## Test Mode: 802.11ac VHT40

Test Mode:802.11ac VHT40 5270MHz Chain0

Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80

| Test Mode:802.11ac VHT80 5290MHz Chain0 |

Transmitter Power Spectral Density

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	5260MHz		5280MHz		5320MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	0	-0.060	0	0.120	0	-0.148
802.11n HT20	Chain0	0	-0.328	0	-0.154	0	-0.422
802.11ac VHT20	Chain0	0	-0.365	0	-0.134	0	-0.430

Test Mode	Antenna	5270MHz		---		5310MHz	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	0	-3.253	---	---	0	-3.389
802.11ac VHT40	Chain0	0	-3.309	---	---	0	-3.436

Test Mode	Antenna	5290MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	0.14	-6.502	---	---	---	---

Test Mode: 802.11a

Test Mode:802.11a 5260MHz Chain0	Test Mode:802.11a 5280MHz Chain0
Test Mode:802.11a 5320MHz Chain0	

Test Mode: 802.11n HT20

Test Mode:802.11n HT20 5260MHz Chain0	Test Mode:802.11n HT20 5280MHz Chain0

Test Mode:802.11n HT20 5320MHz Chain0

Test Mode: 802.11ac VHT20

Test Mode:802.11ac VHT20 5260MHz Chain0

Test Mode:802.11ac VHT20 5280MHz Chain0
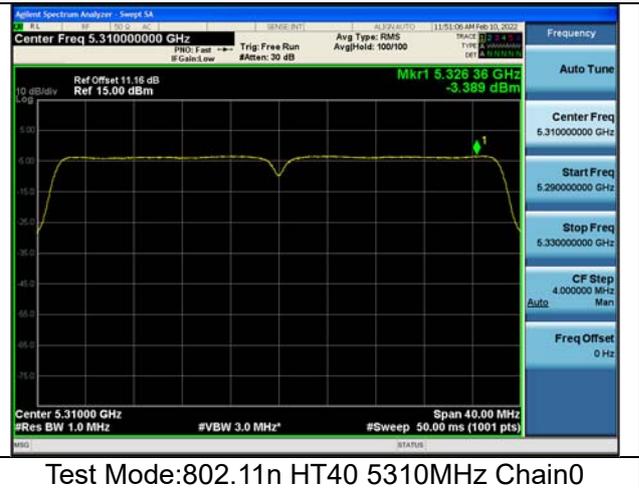
Test Mode:802.11ac VHT20 5320MHz Chain0

Test Mode: 802.11n HT40

Test Mode:802.11n HT40 5270MHz Chain0	Test Mode:802.11n HT40 5310MHz Chain0

Test Mode: 802.11ac VHT40

Test Mode:802.11ac VHT40 5270MHz Chain0	Test Mode:802.11ac VHT40 5310MHz Chain0

Test Mode: 802.11ac VHT80

Test Mode:802.11ac VHT80 5290MHz Chain0	

Dynamic Frequency Selection

DESCRIPTION OF Master Device

The Master Device is a SKSpruce Technologies Co., Ltd., Indoor Access Point, FCC ID: 2AHKT-WIA3300-20. The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is –60 dBm.

Radar Waveform Calibration Result

<20MHz / 5320 MHz> Radar Type 0
Radar / DFS detection threshold level and the burst of pulses on the Channel frequency
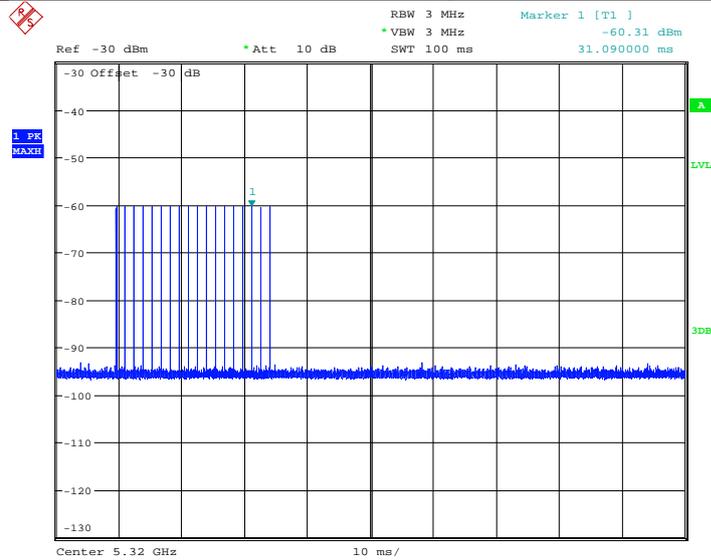
<80MHz / 5290 MHz> Radar Type 0
Radar / DFS detection threshold level and the burst of pulses on the Channel frequency

Data Traffic and Noise Floor Plots
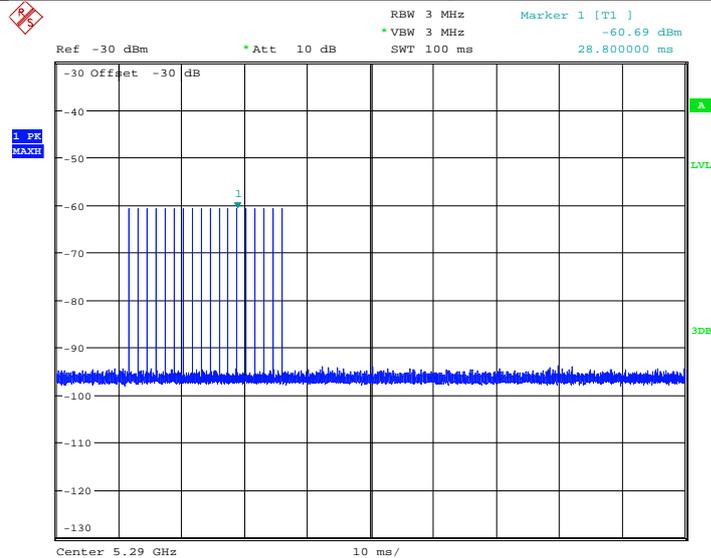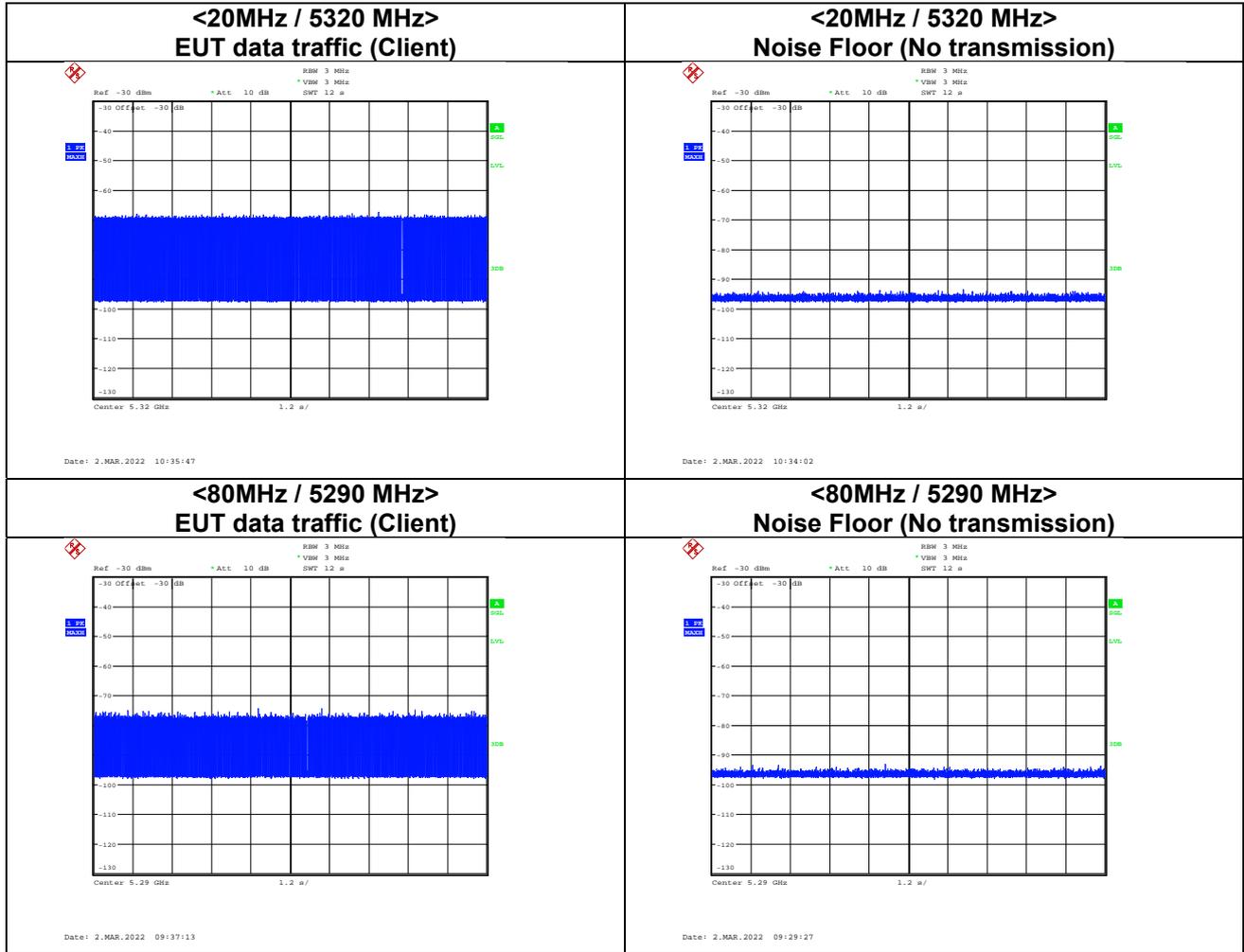
<20MHz / 5320 MHz> EUT data traffic (Client)	<20MHz / 5320 MHz> Noise Floor (No transmission)
 Date: 2.MAR.2022 10:35:47	 Date: 2.MAR.2022 10:34:02
<80MHz / 5290 MHz> EUT data traffic (Client)	<80MHz / 5290 MHz> Noise Floor (No transmission)
 Date: 2.MAR.2022 09:37:13	 Date: 2.MAR.2022 09:29:27

Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

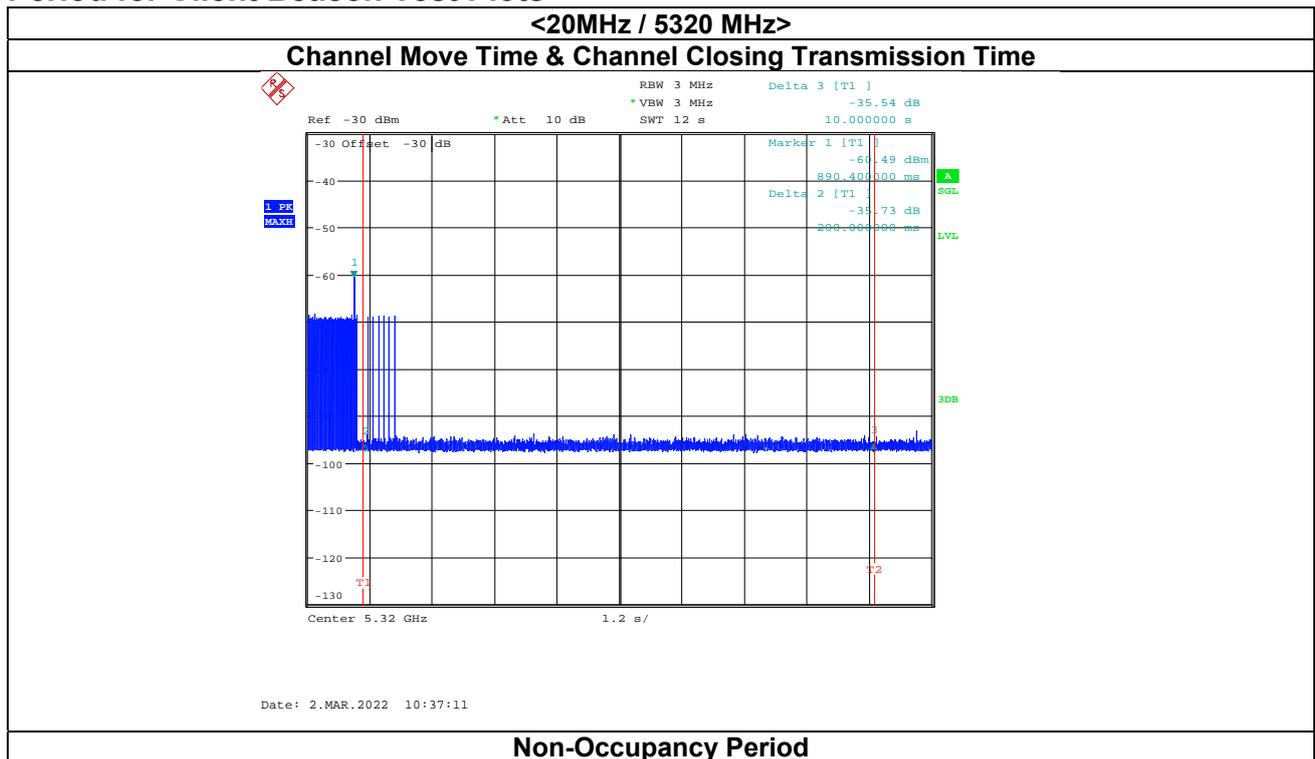| Frequency	Test Item	Test Result	Limit	Pass/Fail
5320MHz	Channel Move Time	$<$ 10s*	$<$ 10s	Pass
	Channel Closing Transmission Time	200ms +8.4ms	$<$ 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
5290MHz	Channel Move Time	$<$ 10s*	$<$ 10s	Pass
	Channel Closing Transmission Time	200ms +8.4ms	$<$ 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass
Note*: We notice clearly that "Channel Move Time" is less than 10s from the figure. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.			

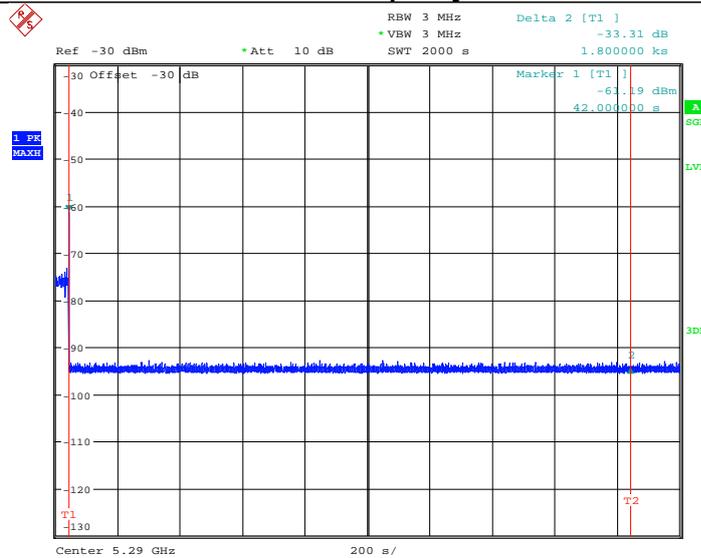## Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test Plots

<20MHz / 5320 MHz>
Channel Move Time & Channel Closing Transmission Time

Non-Occupancy Period

Note:
Dwell (1.2 ms)= Sweep Time (12000 ms) / Sweep Point Bins (10000)
Channel Closing Transmission Time (200 + 8.4 ms) = 200 + Number of beacon after 200ms(7) X Dwell (1.2 ms) < 260ms

<80MHz / 5290MHz>

Channel Move Time & Channel Closing Transmission Time
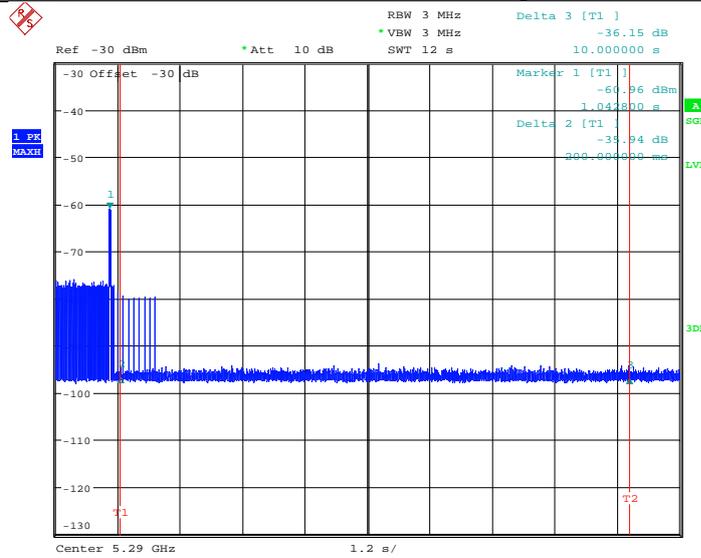
Date: 2.MAR.2022 09:39:33

Non-Occupancy Period

Date: 2.MAR.2022 10:29:29

Note:

Dwell (1.2 ms)= Sweep Time (12000 ms) / Sweep Point Bins (10000)

Channel Closing Transmission Time (200 + 8.4 ms) = 200 + Number of beacon after 200ms(7) X Dwell (1.2 ms) < 260ms