APPENDIX A – TEST DATA OF CONDUCTED EMISSION

CHANNEL AGGREGATION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5720	99.30%	0
802.11n HT20	5720	99.24%	0
802.11ac VHT20	5720	99.20%	0
802.11n HT40	5710	98.40%	0
802.11ac VHT40	5710	98.38%	0
802.11ac VHT80	5690	96.85%	0.14

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

Output Power

NII2C

Title	Test Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
NII2C	802.11a	NA	5720	Chain0	10.33	9.93
NII2C	802.11n HT20	NA	5720	Chain0	10.20	9.80
NII2C	802.11ac VHT20	NA	5720	Chain0	10.21	9.81
NII2C	802.11n HT40	NA	5710	Chain0	10.76	10.36
NII2C	802.11ac VHT40	NA	5710	Chain0	10.76	10.36
NII2C	802.11ac VHT80	NA	5690	Chain0	10.58	10.18

NII3

Title	Test Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
NII3	802.11a	NA	5720	Chain0	4.30	3.90
NII3	802.11n HT20	NA	5720	Chain0	4.76	4.36
NII3	802.11ac VHT20	NA	5720	Chain0	4.77	4.37
NII3	802.11n HT40	NA	5710	Chain0	0.99	0.59
NII3	802.11ac VHT40	NA	5710	Chain0	0.98	0.58
NII3	802.11ac VHT80	NA	5690	Chain0	-2.63	-3.03

Emission Bandwidth

NII2C

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

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	15.44
NII2C	802.11n HT20	Chain0	15.98
NII2C	802.11ac VHT20	Chain0	16.04

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	35.64
NII2C	802.11ac VHT40	Chain0	35.40

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	76.76

NII3

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

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	4.96
NII3	802.11n HT20	Chain0	5.38
NII3	802.11ac VHT20	Chain0	5.56

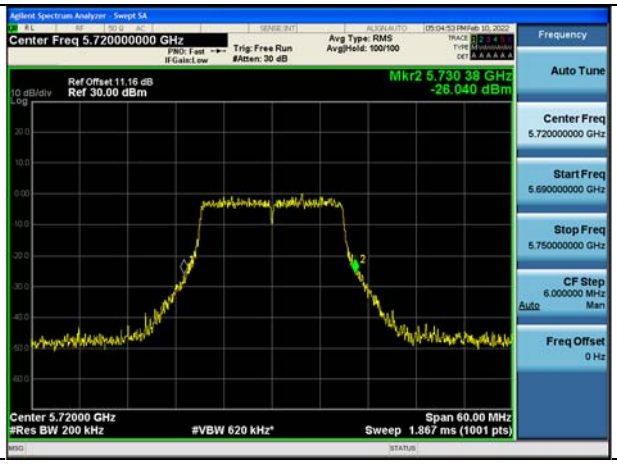
26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	5.64
NII3	802.11ac VHT40	Chain0	5.64

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	6.52

Test Mode: 802.11a

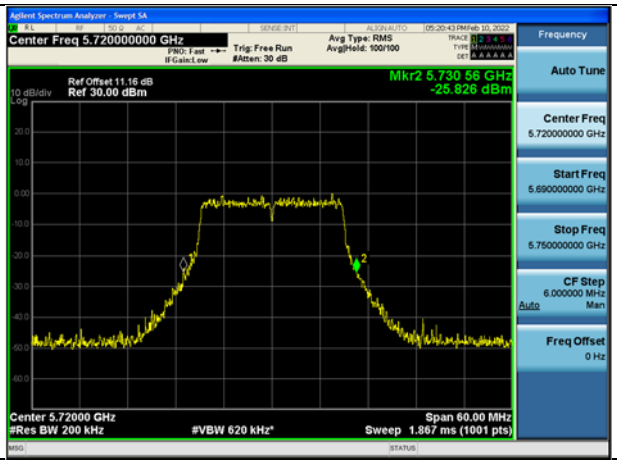
Test Mode:802.11a 5720MHz Chain0

Test Mode: 802.11n HT20



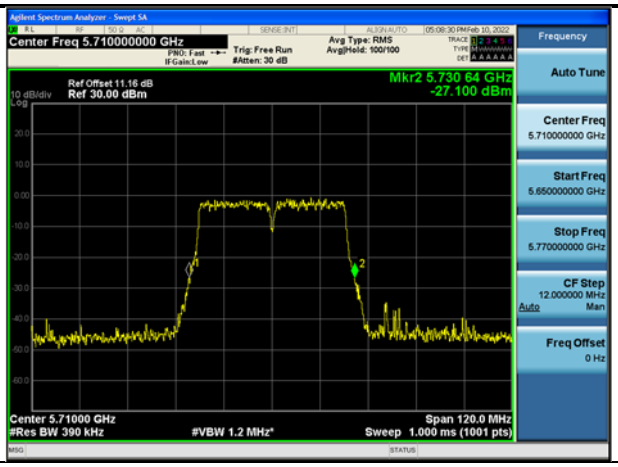
Test Mode:802.11n HT20 5720MHz Chain0

Test Mode: 802.11ac VHT20

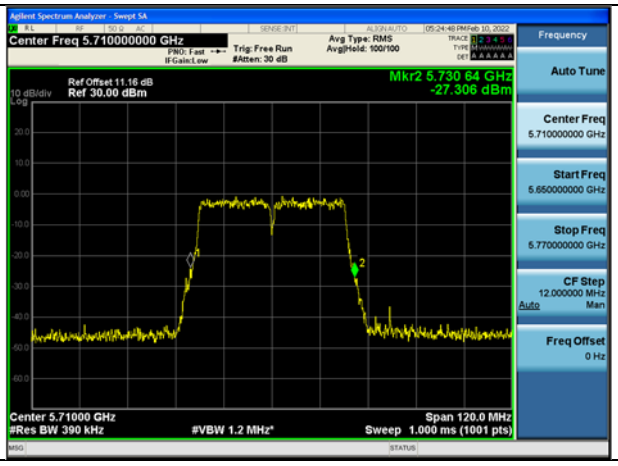


Test Mode:802.11ac VHT20 5720MHz Chain0

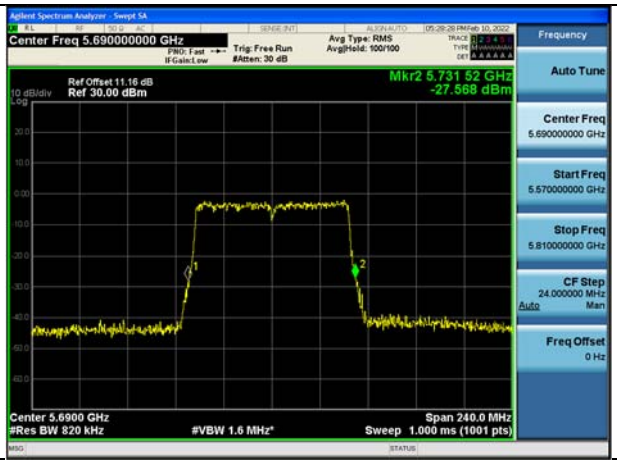
Test Mode: 802.11n HT40

	
Test Mode:802.11n HT40 5710MHz Chain0	

Test Mode: 802.11ac VHT40

	
Test Mode:802.11ac VHT40 5710MHz Chain0	

Test Mode: 802.11ac VHT80

	
Test Mode:802.11ac VHT80 5690MHz Chain0	

Occupied Bandwidth

NII2C

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

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	13.38
NII2C	802.11n HT20	Chain0	13.97
NII2C	802.11ac VHT20	Chain0	13.91

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	33.23
NII2C	802.11ac VHT40	Chain0	33.24

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	73.17

NII3

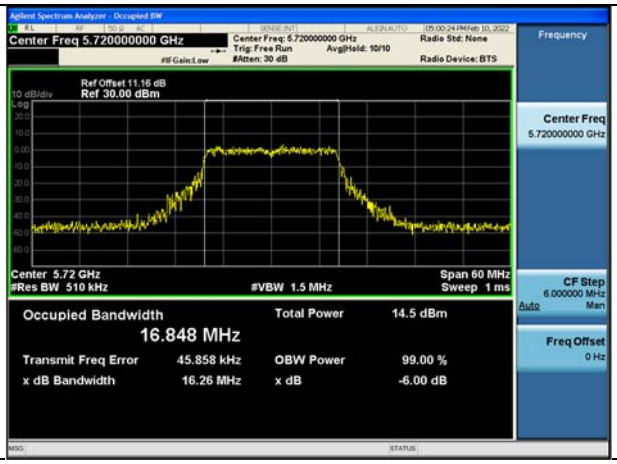
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	3.47
NII3	802.11n HT20	Chain0	4.10
NII3	802.11ac VHT20	Chain0	4.00

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	3.46
NII3	802.11ac VHT40	Chain0	3.40

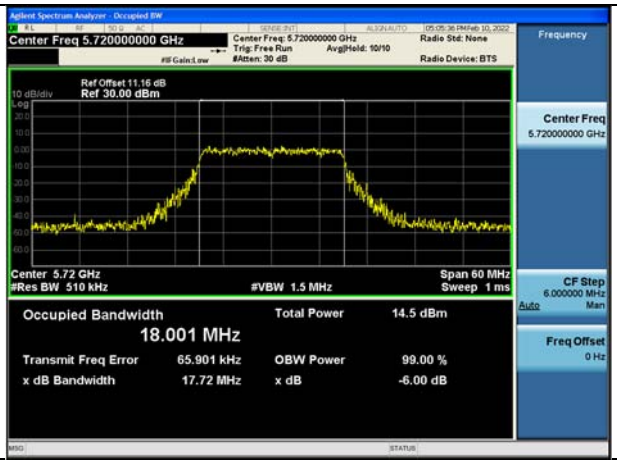
Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	3.39

Test Mode: 802.11a



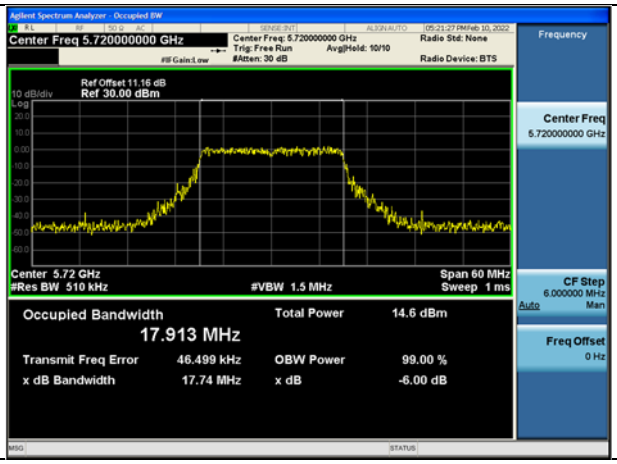
Test Mode:802.11a 5720MHz Chain0	

Test Mode: 802.11n HT20



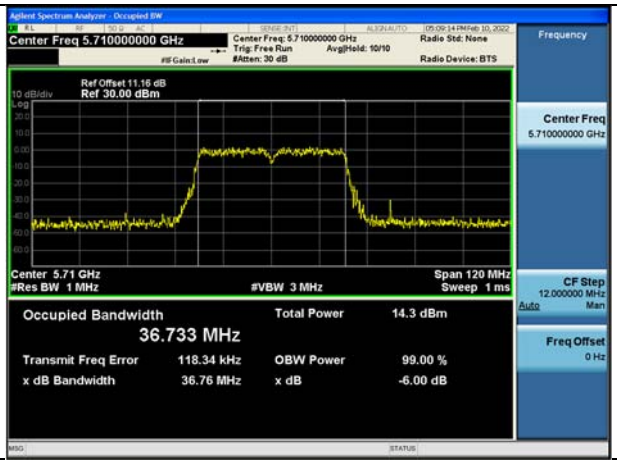
Test Mode:802.11n HT20 5720MHz Chain0	

Test Mode: 802.11ac VHT20



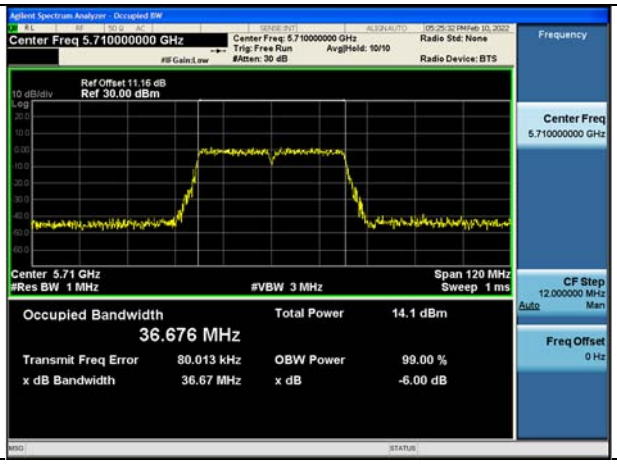
Test Mode:802.11ac VHT20 5720MHz Chain0	

Test Mode: 802.11n HT40



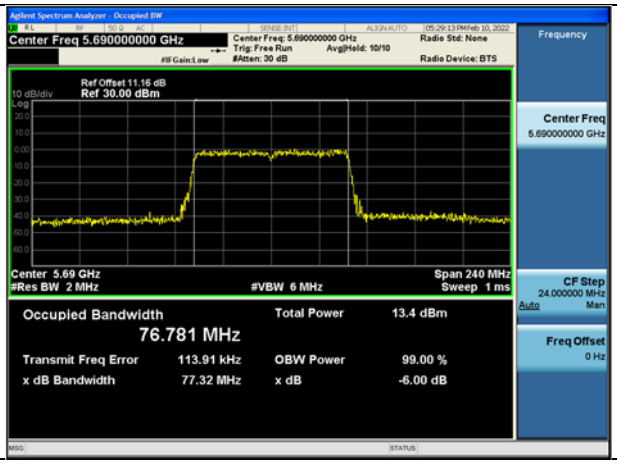
Test Mode:802.11n HT40 5710MHz Chain0	

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5710MHz Chain0	

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5690MHz Chain0	

6dB Bandwidth

NII2C

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

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	13.21
NII2C	802.11n HT20	Chain0	13.81
NII2C	802.11ac VHT20	Chain0	13.82

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	33.20
NII2C	802.11ac VHT40	Chain0	33.19

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	73.16

NII3

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

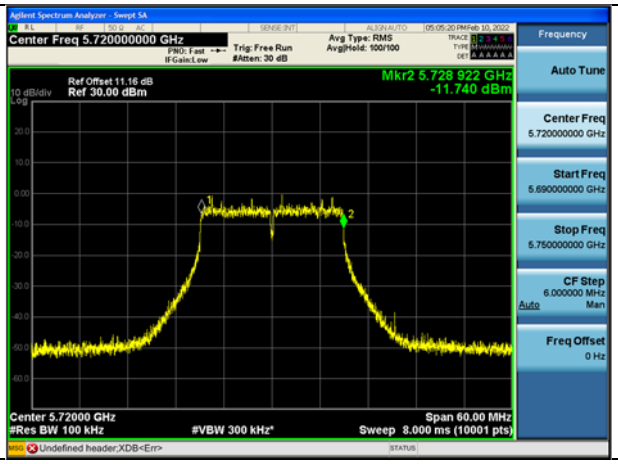
6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	3.30
NII3	802.11n HT20	Chain0	3.92
NII3	802.11ac VHT20	Chain0	-5.14

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	-15.46
NII3	802.11ac VHT40	Chain0	3.30

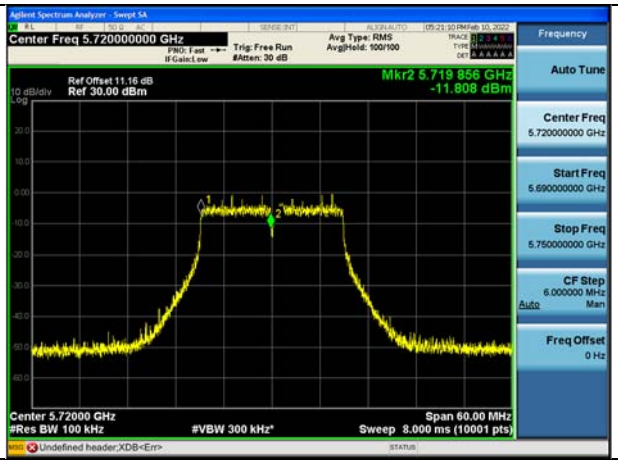
6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	3.28

Test Mode: 802.11a

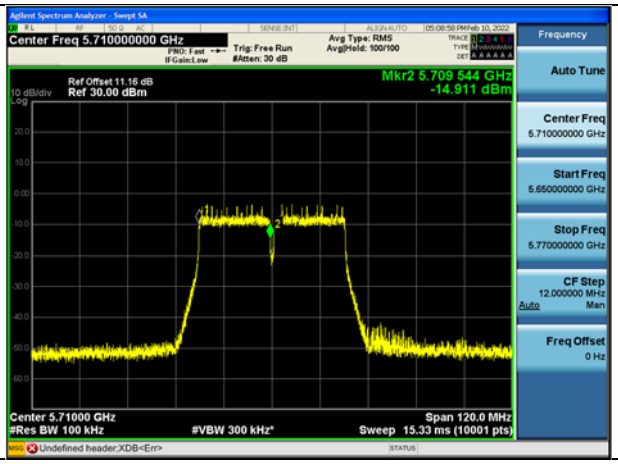
Test Mode: 802.11n HT20

	
Test Mode:802.11n HT20 5720MHz Chain0	

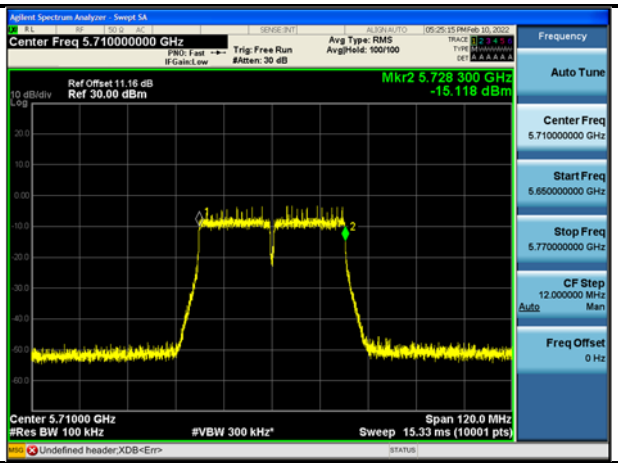
Test Mode: 802.11ac VHT20

	
Test Mode:802.11ac VHT20 5720MHz Chain0	

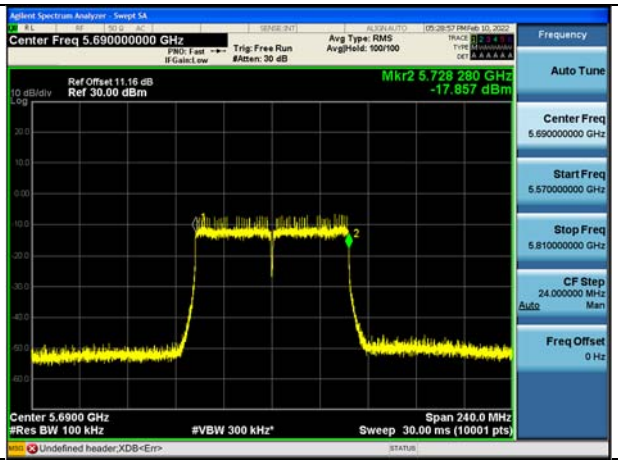
Test Mode: 802.11n HT40

	
Test Mode:802.11n HT40 5710MHz Chain0	

Test Mode: 802.11ac VHT40

	
Test Mode:802.11ac VHT40 5710MHz Chain0	

Test Mode: 802.11ac VHT80

	
Test Mode:802.11ac VHT80 5690MHz Chain0	

Transmitter Power Spectral Density

NII2C

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

Title	Test Mode	Antenna	5720MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11a	Chain0	0	-0.626
NII2C	802.11n HT20	Chain0	0	-0.728
NII2C	802.11ac VHT20	Chain0	0	-0.746

Title	Test Mode	Antenna	5710MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11n HT40	Chain0	0	-3.722
NII2C	802.11ac VHT40	Chain0	0	-3.724

Title	Test Mode	Antenna	5690MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11ac VHT80	Chain0	0.14	-7.121

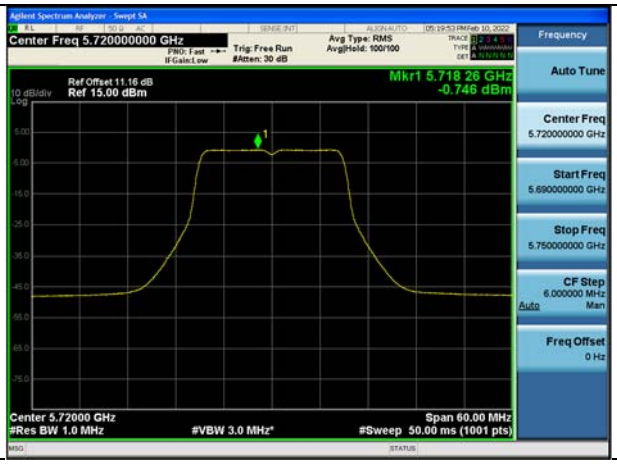
Test Mode: 802.11a

Test Mode:802.11a 5720MHz Chain0 NII2C

Test Mode: 802.11n HT20

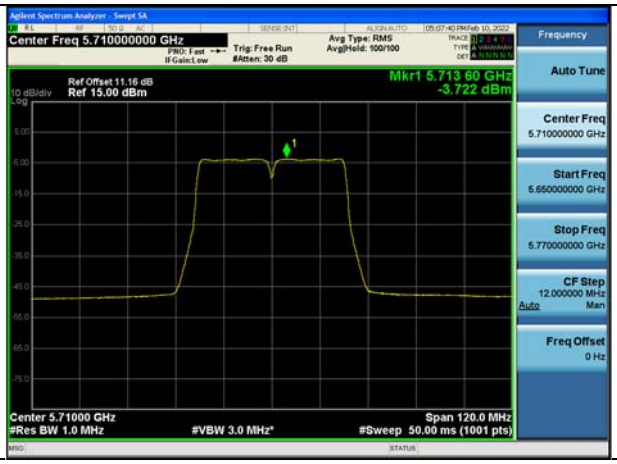
Test Mode:802.11n HT20 5720MHz Chain0 NII2C

Test Mode: 802.11ac VHT20



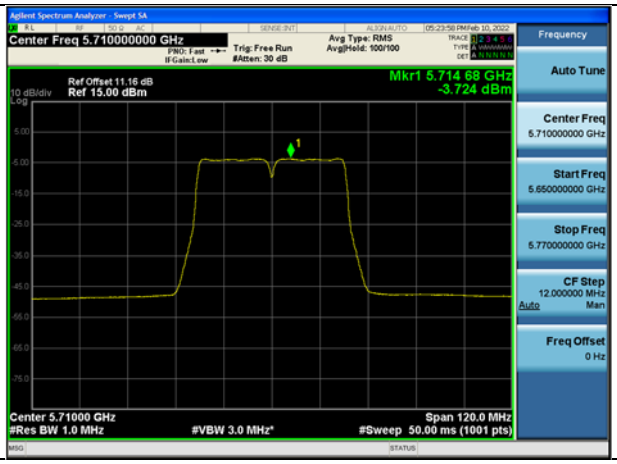
Test Mode:802.11ac VHT20 5720MHz Chain0 NII2C

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5710MHz Chain0 NII2C

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5710MHz Chain0 NII2C

Test Mode: 802.11ac VHT80

	
Test Mode:802.11ac VHT80 5690MHz Chain0 NII2C	

NII3

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

Title	Test Mode	Antenna	5720MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11a	Chain0	0	-2.509
NII3	802.11n HT20	Chain0	0	-2.644
NII3	802.11ac VHT20	Chain0	0	-2.474

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

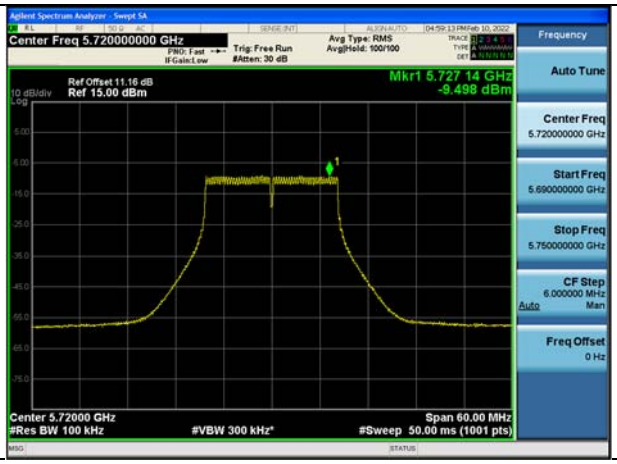
Title	Test Mode	Antenna	5710MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11n HT40	Chain0	0	-5.647
NII3	802.11ac VHT40	Chain0	0	-5.832

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Title	Test Mode	Antenna	5690MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11ac VHT80	Chain0	0.14	-9.949

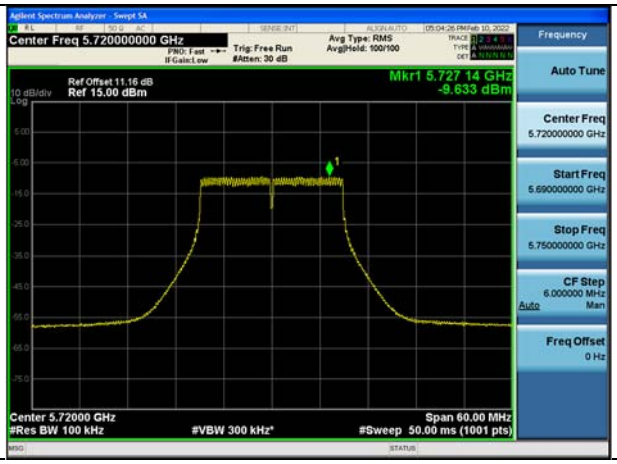
Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode: 802.11a



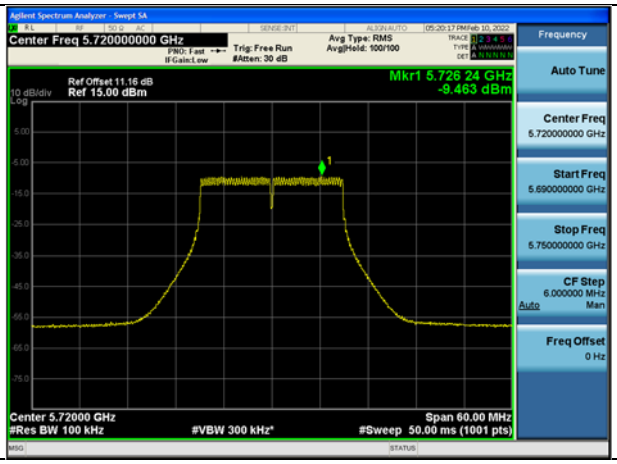
Test Mode:802.11a 5720MHz Chain0 NII3

Test Mode: 802.11n HT20



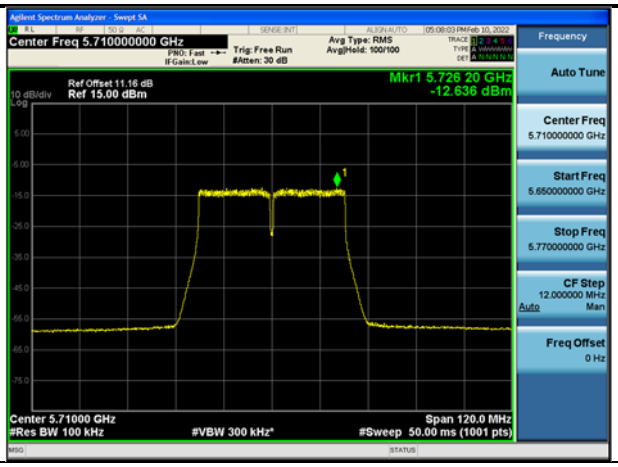
Test Mode:802.11n HT20 5720MHz Chain0 NII3

Test Mode: 802.11ac VHT20

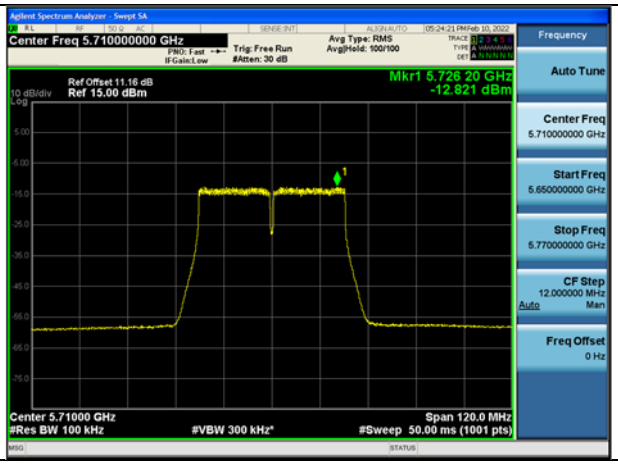


Test Mode:802.11ac VHT20 5720MHz Chain0 NII3

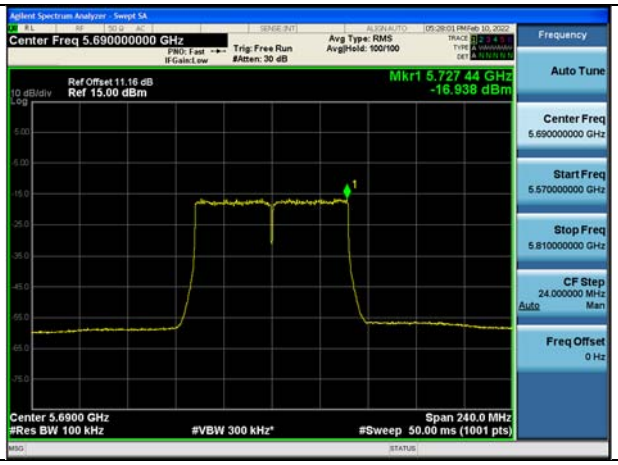
Test Mode: 802.11n HT40

	
Test Mode:802.11n HT40 5710MHz Chain0 NII3	

Test Mode: 802.11ac VHT40

	
Test Mode:802.11ac VHT40 5710MHz Chain0 NII3	

Test Mode: 802.11ac VHT80

	
Test Mode:802.11ac VHT80 5690MHz Chain0 NII3	