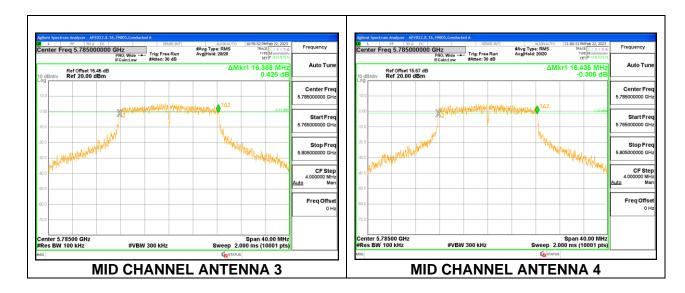
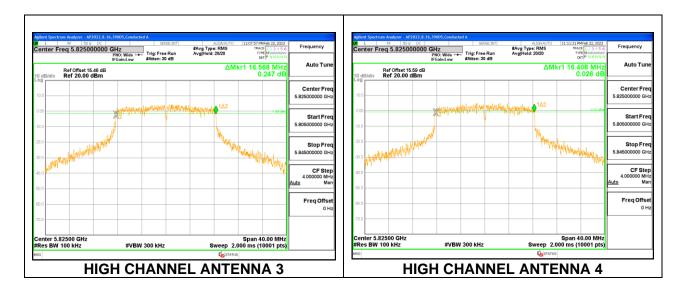
MID CHANNEL



HIGH CHANNEL

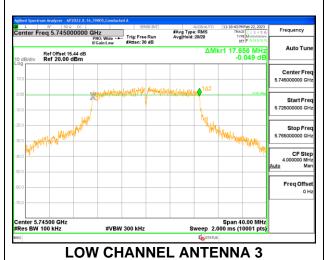


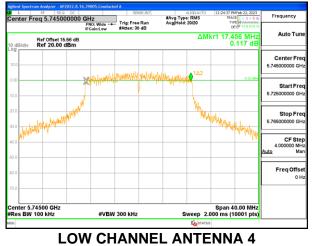
9.4.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

2TX Antenna 3 + Antenna 4 CDD MODE

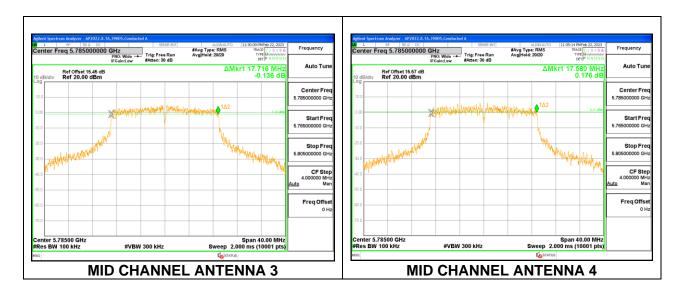
Channel	Frequency	6 dB BW	6 dB BW	Minimum	
		Antenna 3 Antenna 4		Limit	
	(MHz)	(MHz)	(MHz)	(MHz)	
Low	5745	17.656	17.456	0.5	
Mid	5785	17.716	17.580	0.5	
High	5825	17.668	17.604	0.5	

LOW CHANNEL

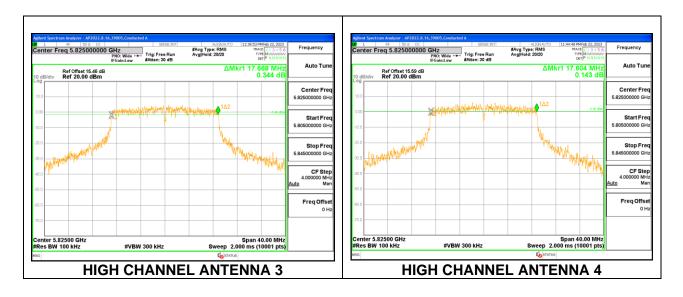




MID CHANNEL



HIGH CHANNEL

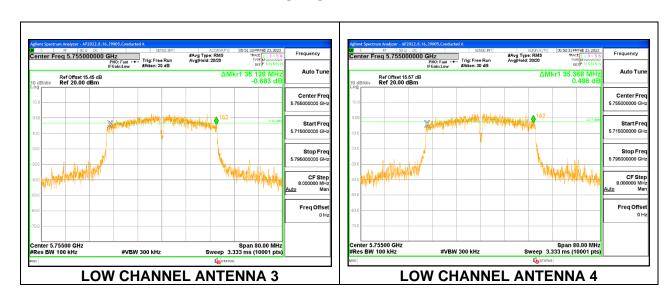


9.4.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

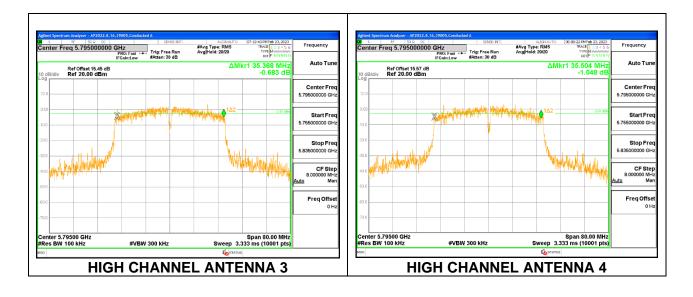
2TX Antenna 3 + Antenna 4 CDD MODE

Channel Frequency		6 dB BW	6 dB BW	Minimum	
		Antenna 3	Antenna 4	Limit	
	(MHz)	(MHz)	(MHz)	(MHz)	
Low	5755	35.128	35.368	0.5	
High	5795	35.368	35.504	0.5	

LOW CHANNEL



HIGH CHANNEL



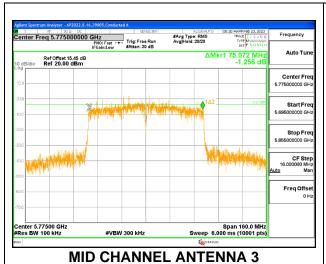
Page 77 of 261

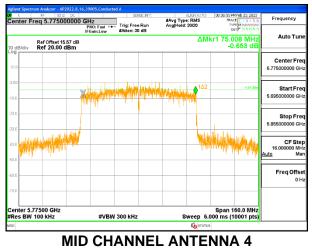
9.4.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

2TX Antenna 3 + Antenna 4 CDD MODE

Chan	nnel Frequency		6 dB BW	6 dB BW	Minimum
			Antenna 3	Antenna 4	Limit
	(MHz)		(MHz)	(MHz)	(MHz)
Mid	⁄lid 5775		75.072	75.008	0.5

MID CHANNEL





9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15-5.25 GHz

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

DIRECTIONAL ANTENNA GAIN

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

NOTE: For 5.2GHz and 5.6GHz Bands worst case combination is Antenna 3 and antenna 2. For 5.3GHz Band worst case combination is Antenna 1 and antenna 2. For 5.8GHz Band worst case combination is Antenna 3 and antenna 4.

Antenna 1 and Antenna 2:

	Chain 0	Chain 1	Uncorrelated Chains	Correlated Chains
	Antenna 1	Antenna 2	Directional	Directional
Band	Gain	Gain	Gain	Gain
(GHz)	(dBi)	(dBi)	(dBi)	(dBi)
5.2	2.3	2.7	2.50	5.51
5.3	2.8	3.3	3.06	6.06
5.6	2.2	3.4	2.84	5.83
5.8	2.1	2.5	2.30	5.31

Antenna 1 and Antenna 4:

Band (GHz)	Chain 0 Antenna 1 Gain (dBi)	Chain 1 Antenna 4 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	2.3	2.6	2.45	5.46
5.3	2.8	2.5	2.65	5.66
5.6	2.2	3.3	2.78	5.78
5.8	2.1	3	2.57	5.57

Antenna 3 and Antenna 2:

	Chain 0	Chain 1	Uncorrelated Chains	Correlated Chains					
	Antenna 3	Antenna 2	Directional	Directional					
Band	Gain	Gain	Gain	Gain					
(GHz)	(dBi)	(dBi)	(dBi)	(dBi)					
5.2	2.6	2.7	2.65	5.66					
5.3	2.4	3.3	2.87	5.87					
5.6	2.9	3.4	3.16	6.16					
5.8	2.2	2.5	2.35	5.36					

Page 81 of 261

Antenna 3 and Antenna 4:

Band	Chain 0 Antenna 3 Gain	Chain 1 Antenna 4 Gain	Uncorrelated Chains Directional Gain	Correlated Chains Directional Gain
(GHz)	(dBi)	(dBi)	(dBi)	(dBi)
5.2	2.6	2.6	2.60	5.61
5.3	2.4	2.5	2.45	5.46
5.6	2.9	3.3	3.10	6.11
5.8	2.2	3.0	2.62	5.62

RESULTS

9.5.1. 802.11a MODE IN THE 5.2 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Antenna Gain and Limits

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		for Power	for PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5180	2.65	5.66	24.00	11.00
Mid	5200	2.65	5.66	24.00	11.00
High	5240	2.65	5.66	24.00	11.00

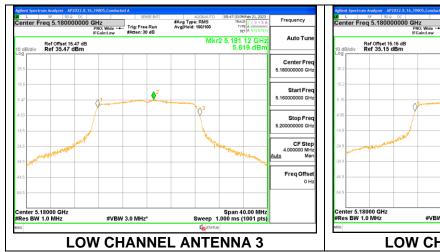
Duty Cycle CF (dB) 1.61 Inc	cluded in Calculations of Corr'd PSD
-----------------------------	--------------------------------------

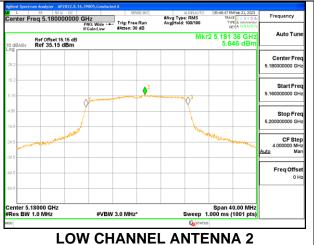
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5180	18.44	18.43	21.45	24.00	-2.55
Mid	5200	18.40	18.76	21.59	24.00	-2.41
High	5240	18.83	18.85	21.85	24.00	-2.15

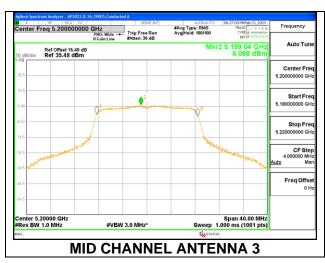
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5180	5.62	5.65	10.25	11.00	-0.75
Mid	5200	6.09	5.47	10.41	11.00	-0.59
High	5240	5.97	5.45	10.34	11.00	-0.66

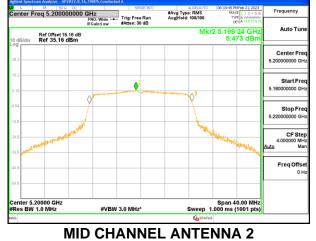
LOW CHANNEL



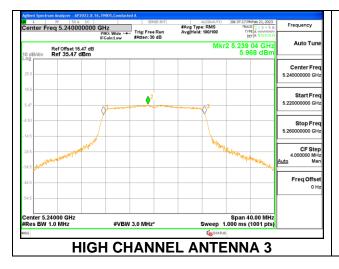


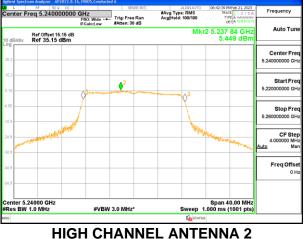
MID CHANNEL





HIGH CHANNEL





Page 84 of 261

(IC)

Test Engineer:	CW20756
Test Date:	2023-02-23

(Note: IC PSD was tested by radiated method)

Bandwidth and Antenna Gain

Channel	Frequency	Min
		99%
		BW
	(MHz)	(MHz)
Low	5180	16.964
Mid	5200	16.727
High	5240	16.725

Limits

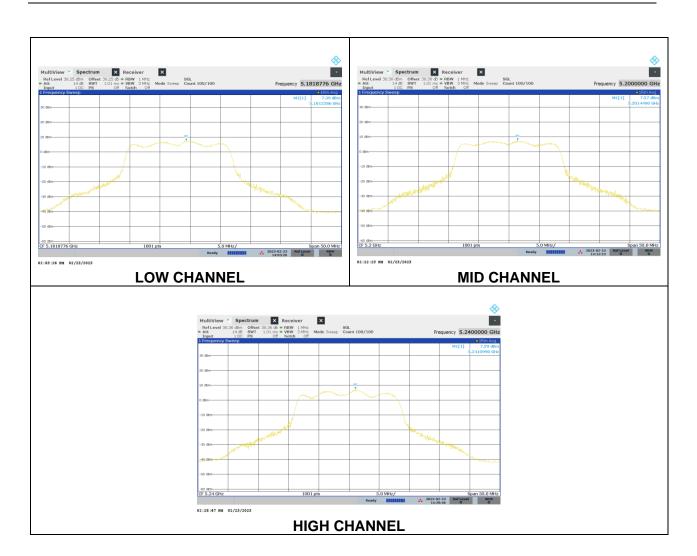
Channel Frequency		ISED	ISED
		EIRP	EIRP
		Limit	PSD
			Limit
	(MHz)	(dBm)	(dBm/
			1MHz)
Low	5180	22.30	10.00
Mid	5200	22.23	10.00
High	5240	22.23	10.00

Duty Cycle CF (dB)	1.61	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency	Total	Power	Power
		Meas	Limit	Margin
		Power		
	(MHz)	(dBm)	(dBm)	(dB)
Low	5180	18.83	22.30	-3.47
Mid	5200	19.12	22.23	-3.11
High	5240	17.79	22.23	-4.44

Channel	Frequency	Total	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	
Low	5180	7.39	9.00	10.00	-1.00
Mid	5200	7.57	9.18	10.00	-0.82
High	5240	7.39	9.00	10.00	-1.00



DATE: 2023-05-25

IC: 5373A-RM044

9.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Antenna Gain and Limits

Channel	Frequency	Directional Directional		Power	PSD
		Gain Gain		Limit	Limit
		for Power	for PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5180	2.65	5.66	24.00	11.00
Mid	5200	2.65	5.66	24.00	11.00
High	5240	2.65	5.66	24.00	11.00

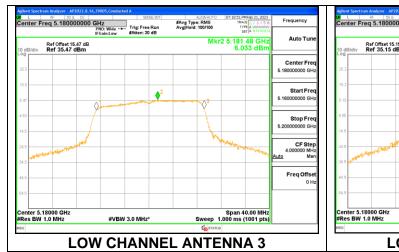
Duty Cycle CF (dB)	1.69	Included in Calculations of Corr'd PSD
--------------------	------	--

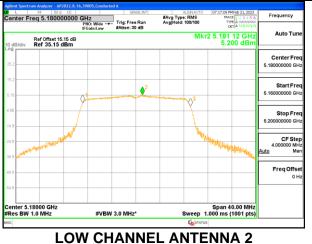
Output Power Results

- unput i c	Output I Office Resource							
Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power		
		Meas	Meas	Corr'd	Limit	Margin		
		Power	Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5180	18.26	18.57	21.43	24.00	-2.57		
Mid	5200	18.68	18.70	21.70	24.00	-2.30		
High	5240	18.76	18.83	21.81	24.00	-2.19		

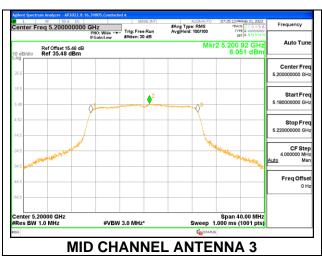
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5180	6.03	5.20	10.34	11.00	-0.66
Mid	5200	6.05	5.36	10.42	11.00	-0.58
High	5240	6.16	5.41	10.50	11.00	-0.50

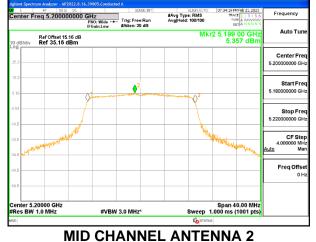
LOW CHANNEL



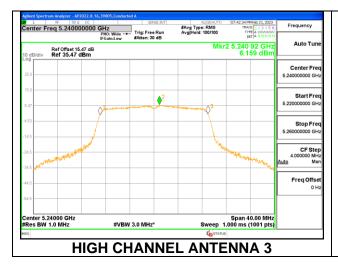


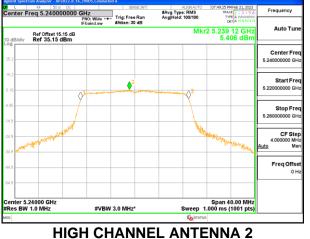
MID CHANNEL





HIGH CHANNEL





Page 88 of 261

(IC)

Test Engineer:	CW20756
Test Date:	2023-02-23

(Note: IC PSD was tested by radiated method)

Bandwidth and Antenna Gain

Channel	Frequency	Min
		99%
		BW
	(MHz)	(MHz)
Low	5180	17.847
Mid	5200	17.719
High	5240	17.834

Limits

Channel	Frequency	ISED	ISED
		EIRP	EIRP
		Limit	PSD
			Limit
	(MHz)	(dBm)	(dBm/
			1MHz)
Low	5180	22.52	10.00
Mid	5200	22.48	10.00
High	5240	22.51	10.00

Duty Cycle CF (dB)	1.69	Included in Calculations of Corr'd PSD
--------------------	------	--

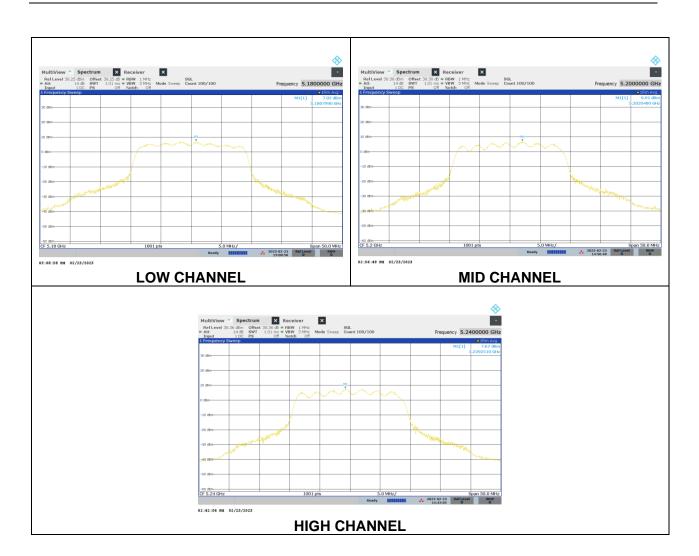
Output Power Results

Channel	Frequency	Total	Power	Power
		Meas	Limit	Margin
		Power		
	(MHz)	(dBm)	(dBm)	(dB)
Low	5180	18.23	22.52	-4.29
Mid	5200	17.42	22.48	-5.06
High	5240	17.90	22.51	-4.61

PSD Results

. 02 11000							
Channel	Frequency	Total	Total	PSD	PSD		
		Meas	Corr'd	Limit	Margin		
		PSD	PSD				
	(MHz)	(dBm/	(dBm/	(dBm/	(dB)		
		1MHz)	1MHz)	1MHz)			
Low	5180	7.02	8.71	10.00	-1.29		
Mid	5200	6.91	8.60	10.00	-1.40		
High	5240	7.67	9.36	10.00	-0.64		

Page 89 of 261



DATE: 2023-05-25

IC: 5373A-RM044

9.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Antenna Gain and Limits

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		for Power	for PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					1MHz)
Low	5190	2.65	5.66	24.00	11.00
High	5230	2.65	5.66	24.00	11.00

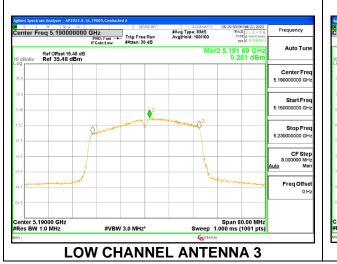
Duty Cycle CF (dB) 2.96 Included in Calculations of Corr'd PSD	
--	--

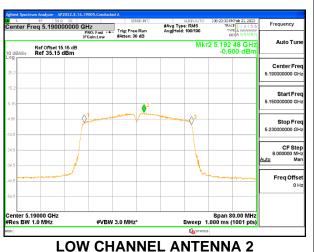
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5190	15.61	15.93	18.78	24.00	-5.22
High	5230	15.46	15.32	18.40	24.00	-5.60

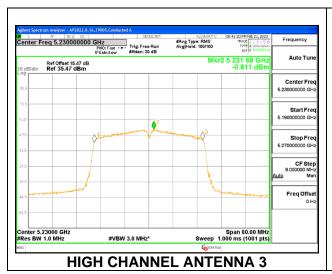
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5190	0.26	-0.60	5.82	11.00	-5.18
High	5230	-0.81	-1.37	4.89	11.00	-6.11

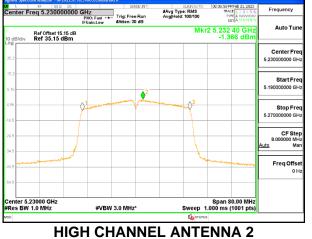
LOW CHANNEL





HIGH CHANNEL





<u>(IC)</u>

Test Engineer:	CW20756
Test Date:	2023-02-23

(Note: IC PSD was tested by radiated method)

Bandwidth and Antenna Gain

Channel	Frequency	Min
		99%
		BW
	(MHz)	(MHz)
Low	5190	35.391
High	5230	35.941

Limits

Channel	Frequency	ISED	ISED
		EIRP	eirp
		Limit	PSD
			Limit
	(MHz)	(dBm)	(dBm/
			1MHz)
Low	5190	23.00	10.00
High	5230	23.00	10.00

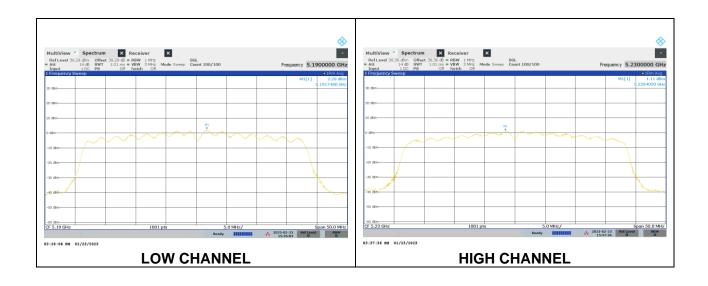
Duty Cycle CF (dB)	2.96	Included in Calculations of Corr'd PSD
Duty Cycle Ci (ab)	2.30	illicidated ill Calculations of Colf a F3D

Output Power Results

Channel	Frequency	Total	Power	Power
		Meas	Meas Limit	
		Power		
	(MHz)	(dBm)	(dBm)	(dB)
Low	5190	15.30	23.00	-7.70
High	5230	14.93	23.00	-8.07

Channel	Frequency	Total	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	
Low	5190	2.28	5.24	10.00	-4.76
High	5230	1.11	4.07	10.00	-5.93

REPORT NO: 14516849-E5V4 FCC ID: SBVRM044



DATE: 2023-05-25

IC: 5373A-RM044

9.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Antenna Gain and Limits

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		for Power	for PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					1MHz)
Mid	5210	2.65	5.66	24.00	11.00

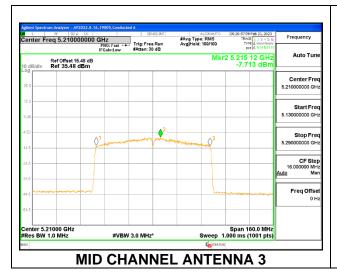
Duty Cycle CF (dB) 4.69 Included in C	Calculations of Corr'd PSD
---------------------------------------	----------------------------

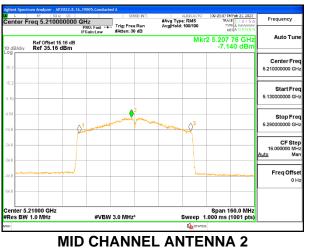
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5210	13.21	13.25	16.24	24.00	-7.76

Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Mid	5210	-7.71	-7.14	0.28	11.00	-10.72

MID CHANNEL





<u>(IC)</u>

Test Engineer:	CW20756
Test Date:	2023-02-23

(Note: IC PSD was tested by radiated method)

Bandwidth and Antenna Gain

Channel	Frequency	Min
		99%
		BW
	(MHz)	(MHz)
Mid	5210	75.247

Limits

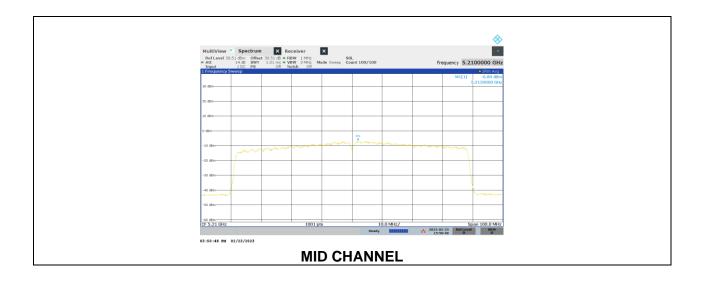
Channel	Frequency	ISED	ISED
		EIRP	EIRP
		Limit	PSD
			Limit
	(MHz)	(dBm)	(dBm/
			1MHz)
Mid	5210	23.00	10.00

Duty Cycle CF (dB) 4.69 Uncluded in Calculations of Corr'd PSD	Duty Cycle CF (dB)	4.69	Included in Calculations of Corr'd PSD
--	--------------------	------	--

Output Power Results

Catput: Circ. Hocario									
Channel	Frequency	Total	Power	Power					
		Meas	Limit	Margin					
		Power							
	(MHz)	(dBm)	(dBm)	(dB)					
Mid	5210	12.28	23.00	-10.72					

Channel	Frequency	Total	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	
Mid	5210	-6.80	-2.11	10.00	-12.11



9.5.5. 802.11a MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directional
		26 dB	99%	Gain	Gain
		BW	BW	for Power	for PPSD
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)
Low	5260	26.68	16.790	3.06	6.06
Mid	5300	26.76	16.761	3.06	6.06
High	5320	26.44	16.709	3.06	6.06

Limits

Channel	Frequency	FCC	IC	IC	Power	FCC	IC	PPSD
		Power	Power	EIRP	Limit	PPSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)						
Low	5260	24.00	23.25	29.25	23.25	10.94	11.00	10.94
Mid	5300	24.00	23.24	29.24	23.24	10.94	11.00	10.94
High	5320	24.00	23.23	29.23	23.23	10.94	11.00	10.94

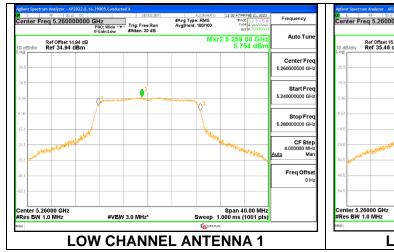
Duty Cycle CF (dB) 1.61 Included in Calculations of Corr'd PPSD	
---	--

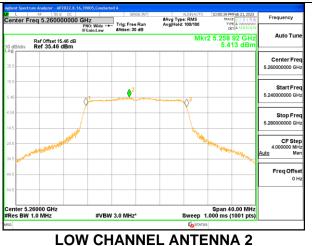
Output Power Results

Channel	Frequency	Antenna 1	Antenna 2	Total	Power	Power
		Meas Meas		Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	18.69	18.7	21.71	23.25	-1.55
Mid	5300	18.02	18.62	21.34	23.24	-1.90
High	5320	18.40	18.72	21.57	23.23	-1.66

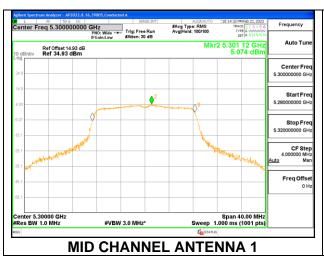
Channel	Frequency	Antenna 1	Antenna 2	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margin
		PPSD	PPSD	PPSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5260	5.754	5.413	10.21	10.94	-0.73
Mid	5300	5.074	5.072	9.69	10.94	-1.25
High	5320	5.284	5.269	9.90	10.94	-1.04

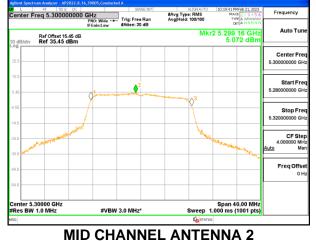
LOW CHANNEL



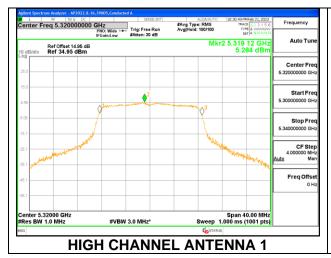


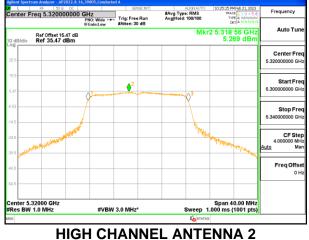
MID CHANNEL





HIGH CHANNEL





Page 100 of 261

9.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-21

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directional	
		26 dB	99%	Gain	Gain	
		BW	BW	for Power	for PPSD	
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)	
Low	5260	27.00	17.852	3.06	6.06	
Mid	5300	27.00	17.823	3.06	6.06	
High	5320	27.20	17.857	3.06	6.06	

Limits

Channel	Frequency	FCC	IC	IC	Power	FCC	IC	PPSD
		Power	Power	EIRP	Limit	PPSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)						
Low	5260	24.00	23.52	29.52	23.52	10.94	11.00	10.94
Mid	5300	24.00	23.51	29.51	23.51	10.94	11.00	10.94
High	5320	24.00	23.52	29.52	23.52	10.94	11.00	10.94

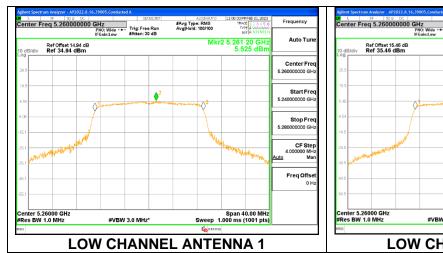
Duty Cycle CF (dB) 1.69 Included in Calculations of Corr'd PPSD	
---	--

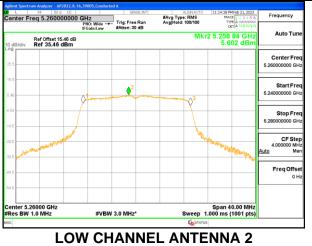
Output Power Results

Channel	Frequency	Antenna 1	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	18.3	18.8	21.57	23.52	-1.95
Mid	5300	18.01	18.82	21.44	23.51	-2.07
High	5320	18.30	18.78	21.56	23.52	-1.96

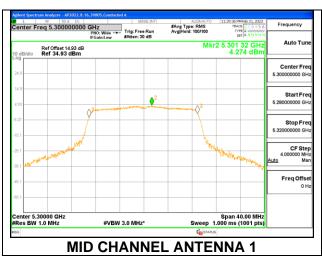
Channel	Frequency	Antenna 1	Antenna 2	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margin
		PPSD	PPSD	PPSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5260	5.525	5.602	10.26	10.94	-0.68
Mid	5300	4.274	5.549	9.66	10.94	-1.28
High	5320	4.598	5.322	9.68	10.94	-1.26

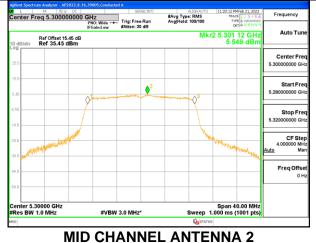
LOW CHANNEL



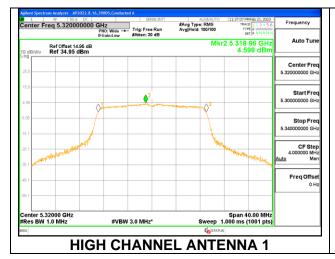


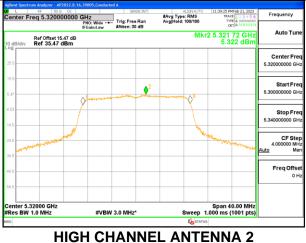
MID CHANNEL





HIGH CHANNEL





Page 102 of 261

9.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directional
		26 dB	99%	Gain	Gain
		BW	BW	for Power	for PPSD
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)
Low	5270	40.32	35.417	3.06	6.06
High	5310	41.12	36.012	3.06	6.06

Limits

Channel	Frequency	FCC	IC	IC	Power	FCC	IC	PPSD
		Power	Power	EIRP	Limit	PPSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)						
Low	5270	24.00	24.00	30.00	24.00	10.94	11.00	10.94
High	5310	24.00	24.00	30.00	24.00	10.94	11.00	10.94

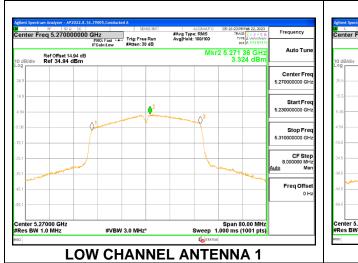
Duty Cycle CF (dB)	2.96	Included in Calculations of Corr'd PPSD
--------------------	------	---

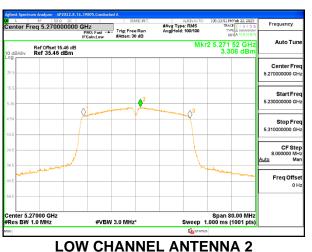
Output Power Results

- mp m - m - m - m - m - m - m - m - m -										
Channel	Frequency	Antenna 1	Antenna 2	Total	Power	Power				
		Meas	Meas	Corr'd	Limit	Margin				
		Power	Power	Power						
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)				
Low	5270	18.00	18.12	21.07	24.00	-2.93				
High	5310	17.52	18.12	20.84	24.00	-3.16				

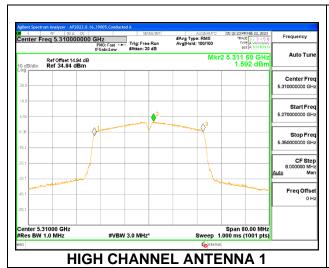
Channel	Frequency	Antenna 1	Antenna 2	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margin
		PPSD	PPSD	PPSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5270	3.324	3.306	9.29	10.94	-1.65
High	5310	1.592	2.034	7.79	10.94	-3.15

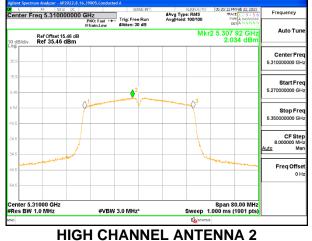
LOW CHANNEL





HIGH CHANNEL





9.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directional				
		26 dB	99%	Gain	Gain				
		BW	BW	for Power	for PPSD				
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)				
Mid	5290	80.32	74.598	3.06	6.06				

Limits

Channel	Frequency	FCC	IC	IC	Power	FCC	IC	PPSD
		Power	Power	EIRP	Limit	PPSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)						
Mid	5290	24.00	24.00	30.00	24.00	10.94	11.00	10.94

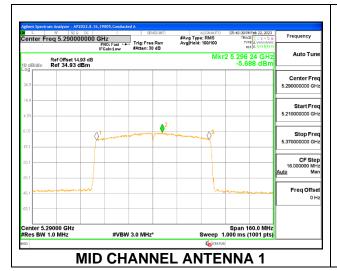
Duty Cycle CF (dB)	4.69	Included in Calculations of Corr'd PPSD
--------------------	------	---

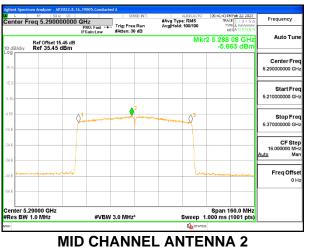
Output Power Results

Output	- alpart one recalls										
Channel	Frequency	Antenna 1 Antenna 2		Total	Power	Power					
		Meas	Meas	Corr'd	Limit	Margin					
		Power	Power	Power							
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)					
Mid	5290	14.05	14.38	17.23	24.00	-6.77					

Channel	Frequency	Antenna 1	Antenna 2	Total	PPSD	PPSD
		Meas	Meas	Corr'd	Limit	Margin
		PPSD	PPSD	PPSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Mid	5290	-5.688	-5.663	2.02	10.94	-8.92

MID CHANNEL





9.5.9. 802.11a MODE IN THE 5.6 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directiona
		26 dB	99%	Gain	Gain
		BW	BW	for Power	for PSD
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)
Low	5500	26.80	16.781	3.16	6.16
Mid	5580	26.16	16.786	3.16	6.16
High	5700	27.56	16.893	3.16	6.16

Limits

Channel	Frequency	FCC	ISED	ISED	Power	FCC	ISED
		Power	Power	EIRP	Limit	PSD	PSD
		Limit	Limit	Limit		Limit	Limit
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm/1MHz)	(dBm/1MHz)
Low	5500	24.00	23.25	29.25	23.25	10.84	11.00
Mid	5580	24.00	23.25	29.25	23.25	10.84	11.00
High	5700	24.00	23.28	29.28	23.28	10.84	11.00

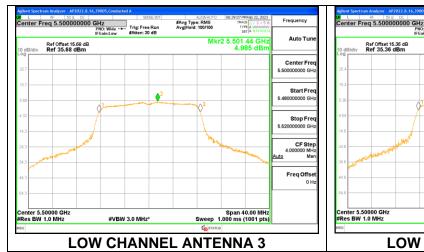
Duty Cycle CF (dB)	1.61	Included in Calculations of Corr'd PSD
--------------------	------	--

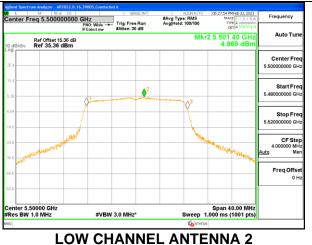
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	18.02	18.18	21.11	23.25	-2.14
Mid	5580	18.70	18.72	21.72	23.25	-1.53
High	5700	17.68	17.20	20.46	23.28	-2.82

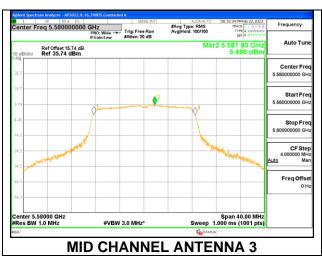
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5500	4.985	4.869	9.548	10.84	-1.29
Mid	5580	5.486	5.481	10.104	10.84	-0.74
			5.013	10.148	10.84	-0.69

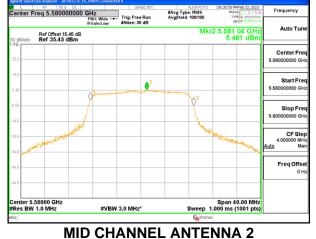
LOW CHANNEL



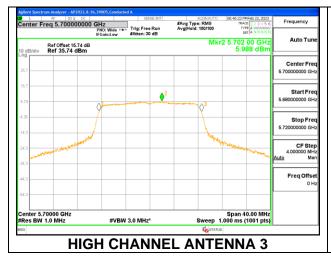


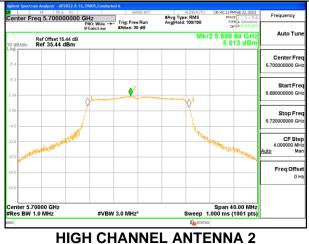
MID CHANNEL





HIGH CHANNEL





Page 108 of 261

9.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

2TX Antenna 3 + Antenna 2 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directiona
		26 dB	99%	Gain	Gain
		BW	BW	for Power	for PSD
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)
Low	5500	25.68	17.774	3.16	6.16
Mid	5580	25.04	17.831	3.16	6.16
High	5700	25.20	17.892	3.16	6.16

Limits

Channel	Frequency	FCC	ISED	ISED	Power	FCC	ISED
		Power	Power	EIRP	Limit	PSD	PSD
		Limit	Limit	Limit		Limit	Limit
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm/1MHz)	(dBm/1MHz)
Low	5500	24.00	23.50	29.50	23.50	10.84	11.00
Mid	5580	24.00	23.51	29.51	23.51	10.84	11.00
High	5700	24.00	23.53	29.53	23.53	10.84	11.00

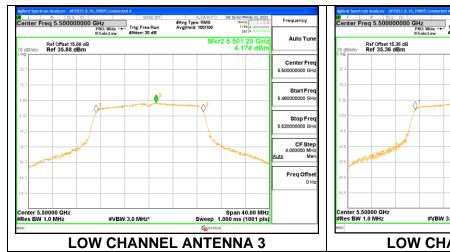
Duty Cycle CF (dB)	1.69	Included in Calculations of Corr'd PSD
--------------------	------	--

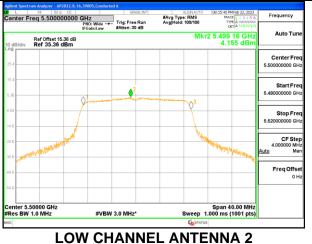
Output Power Results

Channel	Frequency	Antenna 3 Antenna 2 Total		Power	Power	
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	16.78	17.08	19.94	23.50	-3.55
Mid	5580	18.00	17.57	20.80	23.51	-2.71
High	5700	16.80	16.20	19.52	23.53	-4.01

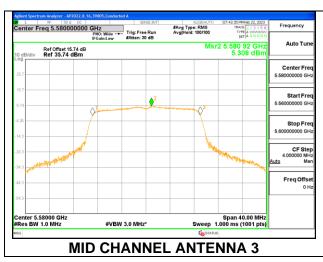
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	
Low	5500	4.174	4.155	8.865	10.84	-1.98
Mid	5580	5.308	4.822	9.772	10.84	-1.07
IVIIU	3300	0.000	1.022	•··· -		

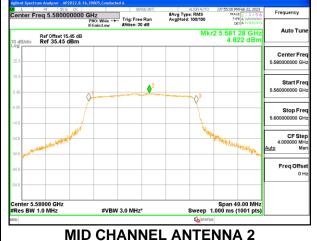
LOW CHANNEL



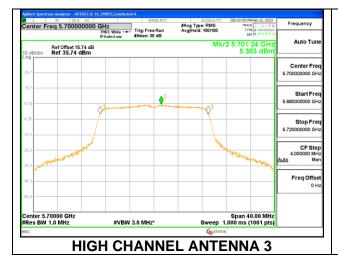


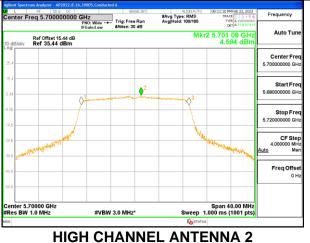
MID CHANNEL





HIGH CHANNEL





Page 110 of 261

9.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

2TX Antenna 2 + Antenna 3 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Zanawiani ana / moma zani								
Channel	Frequency	Min	Min Min Directional		Directional			
		26 dB 99% Gain		26 dB 99% Gain		Gain		
		BW	BW	for Power	for PSD			
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)			
Low	5510	40.24	35.373	3.16	6.16			
Mid	5550	40.56	35.729	3.16	6.16			
High	5670	40.72	35.664	3.16	6.16			

Limits

Channel	Frequency	FCC	ISED	ISED	Power	FCC	ISED	PSD
		Power	Power	EIRP	Limit	PSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm/	(dBm/	(dBm/
						1MHz)	1MHz)	1MHz)
Low	5510	24.00	24.00	30.00	24.00	10.84	11.00	10.84
Mid	5550	24.00	24.00	30.00	24.00	10.84	11.00	10.84
High	5670	24.00	24.00	30.00	24.00	10.84	11.00	10.84

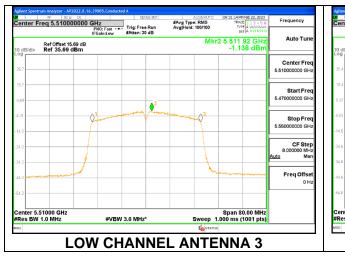
Duty Cycle CF (dB)	2.96	Included in Calculations of Corr'd PSD
--------------------	------	--

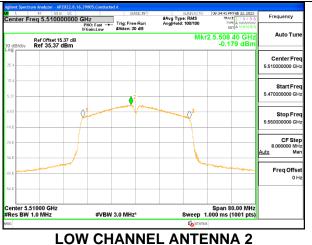
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	16.06	16.00	19.04	24.00	-4.96
Mid	5550	18.76	18.42	21.60	24.00	-2.40
High	5670	19.33	18.97	22.16	24.00	-1.84

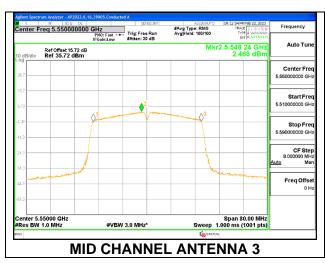
Channal	F=====================================	Autonno O	Aut	Tatal	DCD	DCD
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD
		Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD		
	(MHz)	(dBm/ 1MHz)	(dBm/	(dBm/	(dBm/	(dB)
	(1411 12)	(abili liviliz)	•	`	•	(ab)
			1MHz)	1MHz)	1MHz)	
Low	5510	-1.138	-0.179	5.34	10.84	-5.50
Mid	5550	2.463	2.242	8.32	10.84	-2.52
High	5670	4.443	3.509	9.97	10.84	-0.87

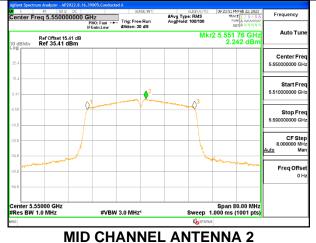
LOW CHANNEL



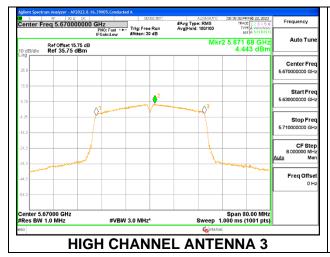


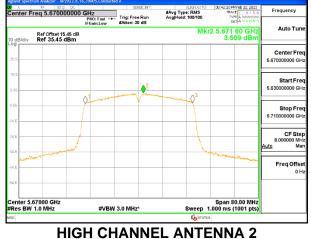
MID CHANNEL





HIGH CHANNEL





Page 112 of 261

9.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

2TX Antenna 2 + Antenna 3 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Bandwidth and Antenna Gain

Channel	Frequency	Min	Min	Directional	Directional
		26 dB	99%	Gain	Gain
		BW	BW	for Power	for PSD
	(MHz)	(MHz)	(MHz)	(dBi)	(dBi)
Low	5530	80.64	75.176	3.16	6.16
High	5610	80.48	75.220	3.16	6.16

Limits

Channel	Frequency	FCC	ISED	ISED	Power	FCC	ISED	PSD
		Power	Power	EIRP	Limit	PSD	PSD	Limit
		Limit	Limit	Limit		Limit	Limit	
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm/	(dBm/	(dBm/
						1MHz)	1MHz)	1MHz)
Low	5530	24.00	24.00	30.00	24.00	10.84	11.00	10.84
High	5610	24.00	24.00	30.00	24.00	10.84	11.00	10.84

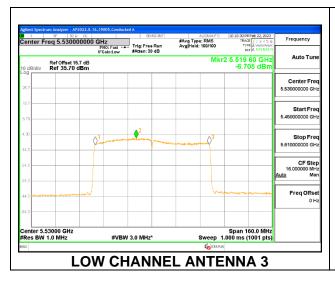
Duty Cycle CF (dB)	4.69	Included in Calculations of Corr'd PSD
--------------------	------	--

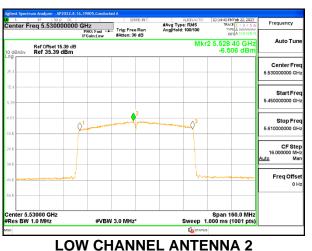
Output Power Results

Channel	Frequency	Antenna 3	Antenna 2	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5530	14.01	14.00	17.02	24.00	-6.98
High	5610	19.90	19.92	22.92	24.00	-1.08

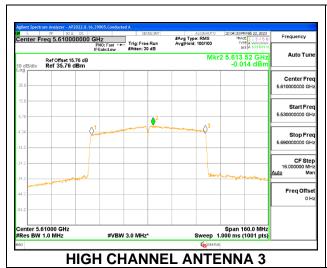
Channel	Frequency	Antenna 3	Antenna 2	Total	PSD	PSD		
		Meas	Meas	Corr'd	Limit	Margin		
		PSD	PSD	PSD				
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)		
		1MHz)	1MHz)	1MHz)	1MHz)			
Low	5530	-6.705	-6.506	1.096	10.84	-9.74		
High	5610	-0.014	0.247	7.819	10.84	-3.02		

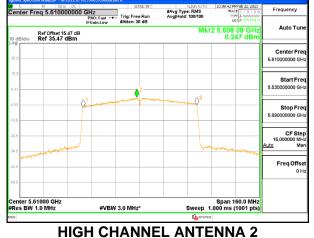
LOW CHANNEL





HIGH CHANNEL





9.5.13. 802.11a MODE IN THE 5.8 GHz BAND

2TX Antenna 3 + Antenna 4 CDD MODE (FCC+IC)

Test Engineer:	RA 39005
Test Date:	2023-02-22

Antenna Gain and Limit

Channel	Frequency	Directional	Directional	FCC/ISED	FCC/ISED
		Gain	Gain	Power	PSD
		for Power	for PSD	Limit	Limit
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm/
					500KHz)
Low	5745	2.62	5.62	30.00	30.00
Mid	5785	2.62	5.62	30.00	30.00
High	5825	2.62	5.62	30.00	30.00

Duty Cycle CF (dB)	1.61	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency	Antenna 3	Antenna 4	Total	Power	Power
		Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	19.56	19.62	22.60	30.00	-7.40
Mid	5785	19.92	19.79	22.87	30.00	-7.13
High	5825	19.70	19.71	22.72	30.00	-7.28

Channel	Frequency	Antenna 3 Meas PSD	Antenna 4 Meas PSD	Total Corr'd PSD	PSD Limit	PSD Margin
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		500KHz)	500KHz)	500KHz)	500KHz)	
Low	5745	5.662	5.344	10.126	30.00	-19.87
Mid	5785	5.100	4.604	9.479	30.00	-20.52
High	5825	4.631	4.798	9.336	30.00	-20.66