Test Engineer:	GA 12485
Test Date:	4/29/2021

# Bandwidth, Antenna Gain, and Limits

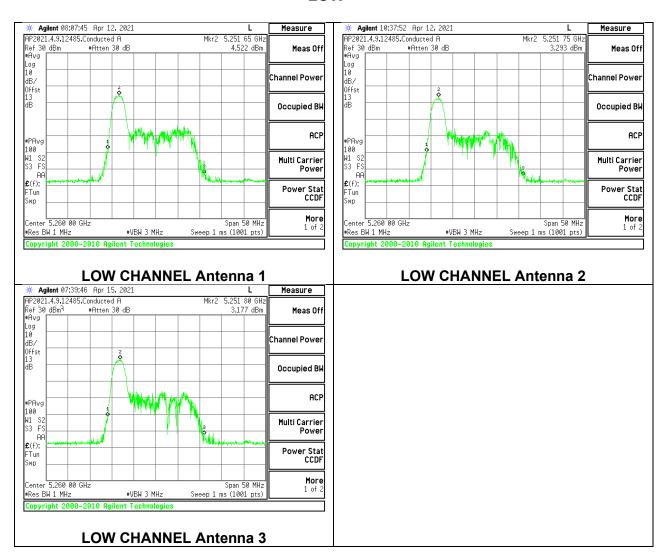
Channel	Frequency	Min	Directional Directional		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5260	20.00	3.20	7.70	24.00	9.30
Mid	5300	19.95	3.20	7.70	24.00	9.30
High	5320	20.05	3.20	7.70	24.00	9.30

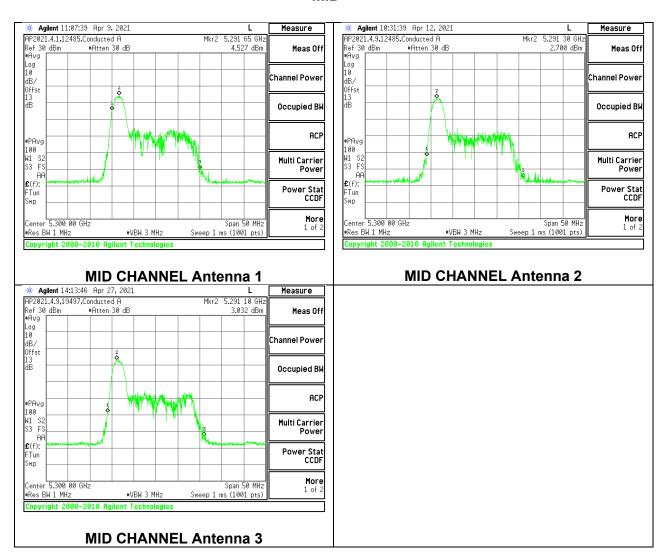
Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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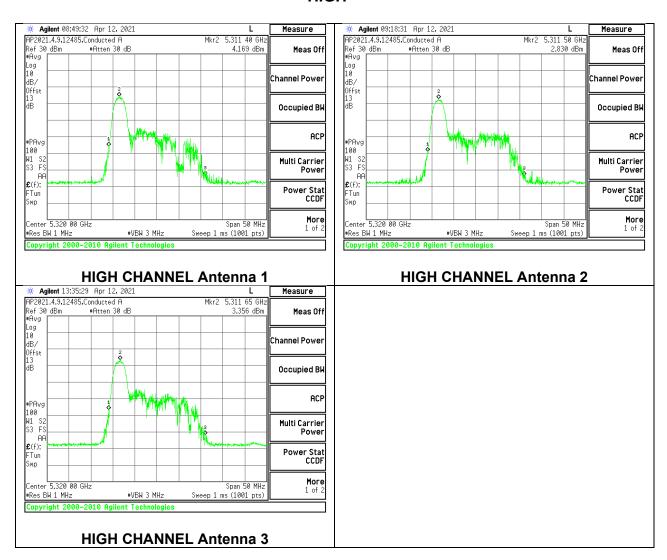
### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	6.70	5.76	5.95	10.93	24.00	-13.07
Mid	5300	5.73	5.72	6.00	10.59	24.00	-13.41
High	5320	5.89	5.27	6.00	10.50	24.00	-13.50

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5260	4.52	3.29	3.18	8.61	9.30	-0.69
Mid	5300	4.53	2.70	3.03	8.40	9.30	-0.90
High	5320	4.17	2.83	3.36	8.39	9.30	-0.91







Test Engineer:	GA 12485
Test Date:	4/29/2021

# Bandwidth, Antenna Gain, and Limits

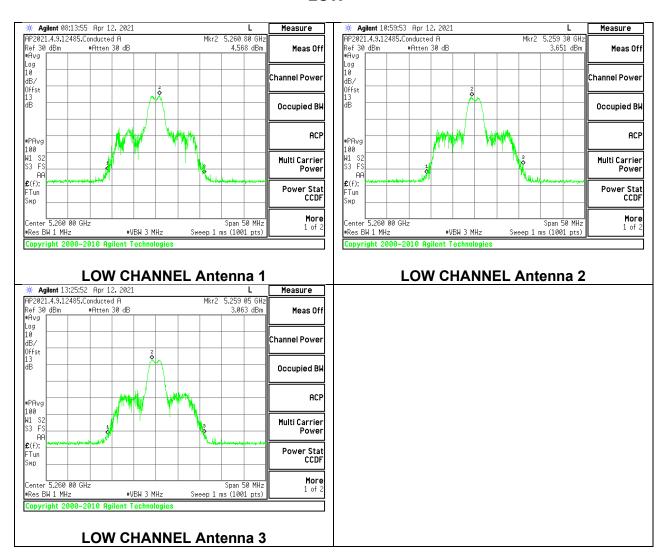
Channel	Frequency	Min	Directional Directional		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5260	18.40	3.20	7.70	23.65	9.30
Mid	5300	18.45	3.20	7.70	23.66	9.30
High	5320	18.45	3.20	7.70	23.66	9.30

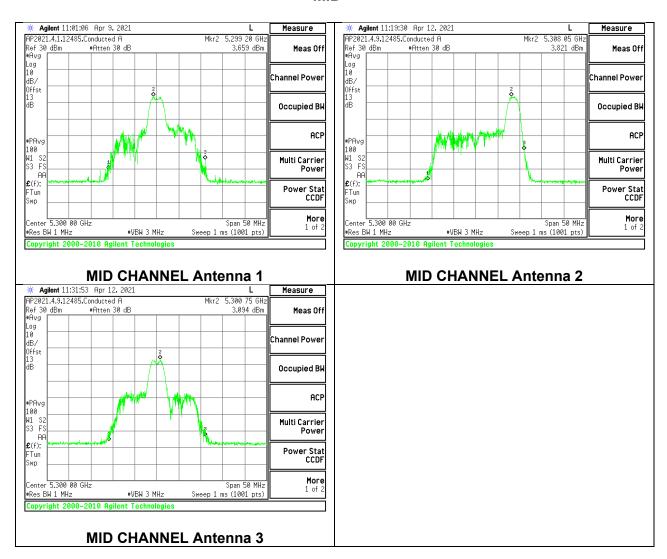
Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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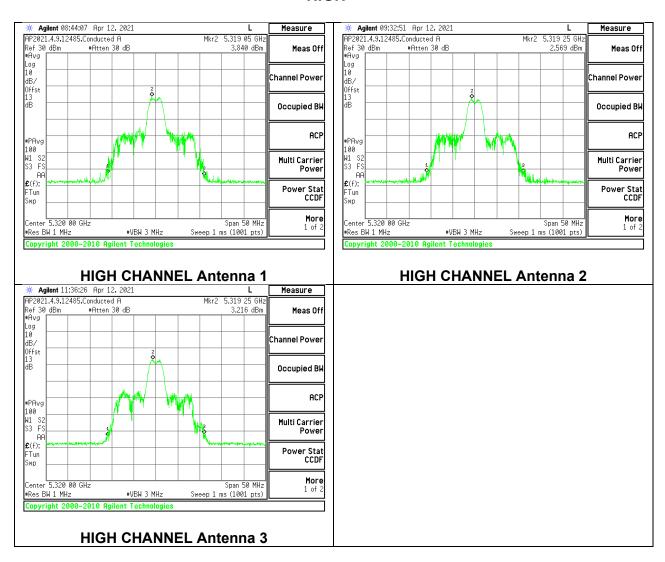
### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	6.36	6.62	6.24	11.18	23.65	-12.47
Mid	5300	6.54	6.47	6.32	11.22	23.66	-12.44
High	5320	6.84	6.76	6.22	11.39	23.66	-12.27

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5260	4.57	3.65	3.06	8.71	9.30	-0.59
Mid	5300	3.66	3.82	3.09	8.44	9.30	-0.86
High	5320	3.84	2.57	3.22	8.14	9.30	-1.16







Test Engineer:	GA 12485
Test Date:	4/29/2021

# Bandwidth, Antenna Gain, and Limits

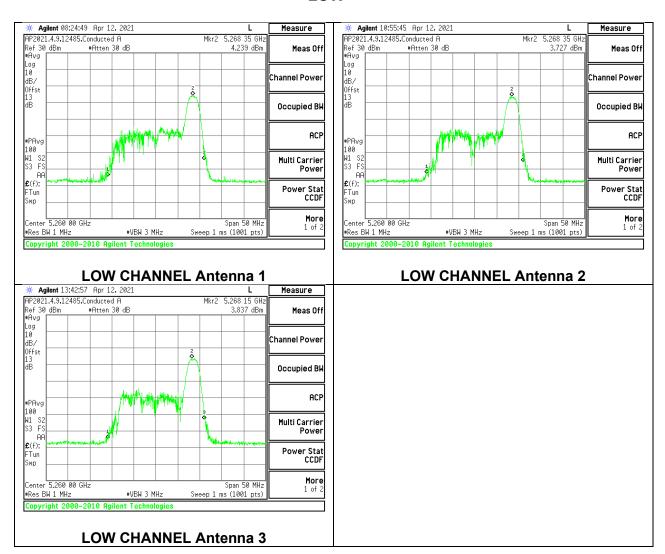
Channel	Frequency	Min	Directional Directional		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5260	20.10	3.20	7.70	24.00	9.30
Mid	5300	20.10	3.20	7.70	24.00	9.30
High	5320	20.00	3.20	7.70	24.00	9.30

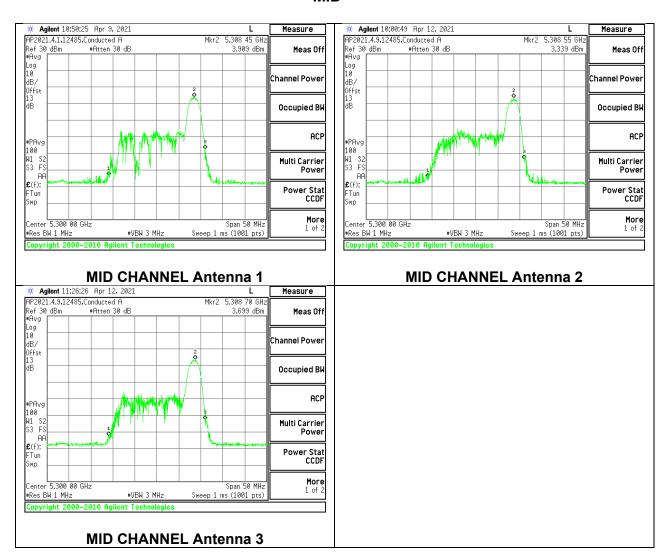
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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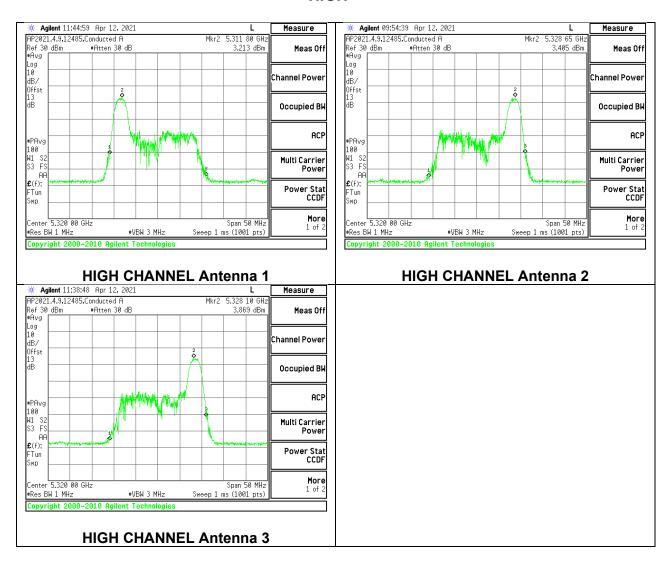
### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5260	6.16	6.12	6.79	11.14	24.00	-12.86
Mid	5300	6.26	6.17	6.07	10.94	24.00	-13.06
High	5320	6.66	6.17	6.72	11.29	24.00	-12.71

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5260	4.24	3.73	3.84	8.84	9.30	-0.46
Mid	5300	3.91	3.34	3.70	8.56	9.30	-0.74
High	5320	3.21	3.41	3.87	8.41	9.30	-0.89







# 9.4.5. 802.11ax HE40 MODE 3TX IN THE 5.3GHz BAND (FCC)

# 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 484-Tones, RU Index 65

Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

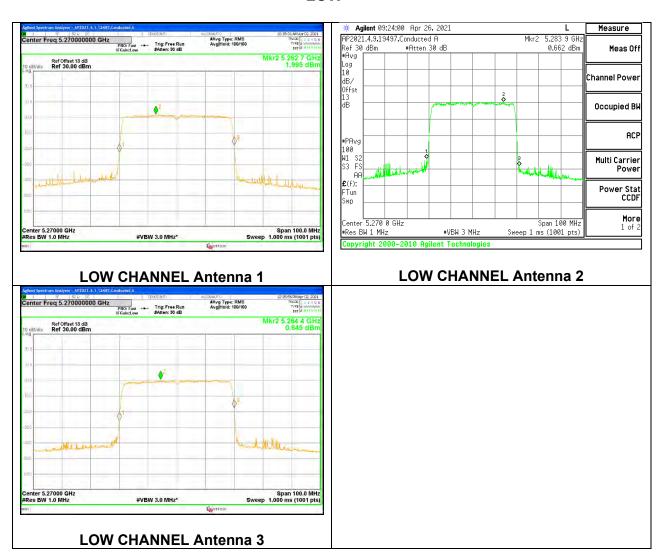
Channel	Frequency	Min	Uncorrelated	Correlated	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5270	40.80	3.20	7.70	24.00	9.30

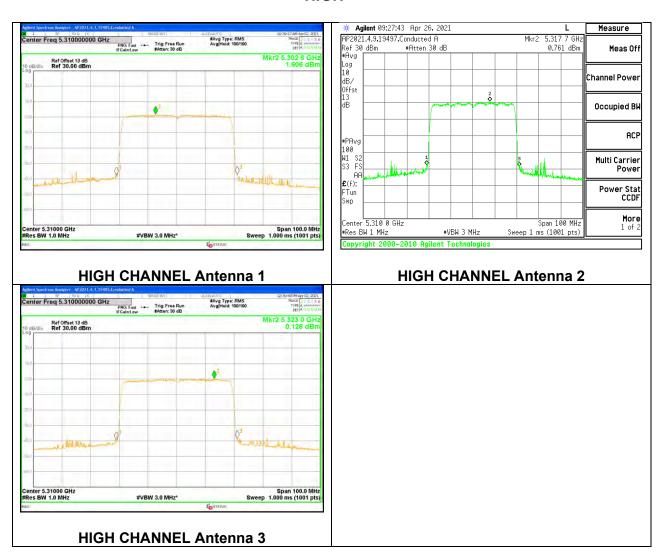
Duty Cycle CF (dB) 0.13 Included in Calculations of Corr'd PSD
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# **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Love	5270	15.44	14.66	15.01	10.00	24.00	-4.18
Low	3270	15.44	14.66	15.01	19.82	24.00	-4.10

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5270	2.00	0.66	0.65	6.05	9.30	-3.25
High	5310	1.61	0.76	0.13	5.77	9.30	-3.53





Test Engineer:	GA 12485
Test Date:	5/3/2021

### Bandwidth, Antenna Gain, and Limits

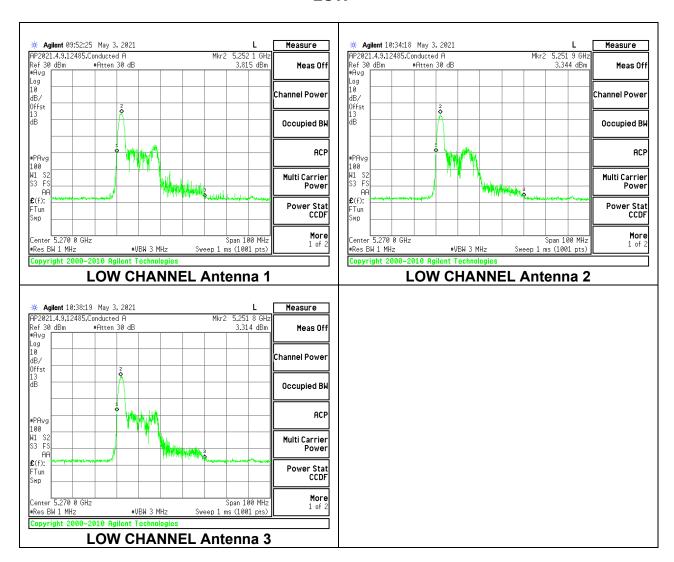
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5270	19.30	3.20	7.70	23.86	9.30
High	5310	19.30	3.20	7.70	23.86	9.30

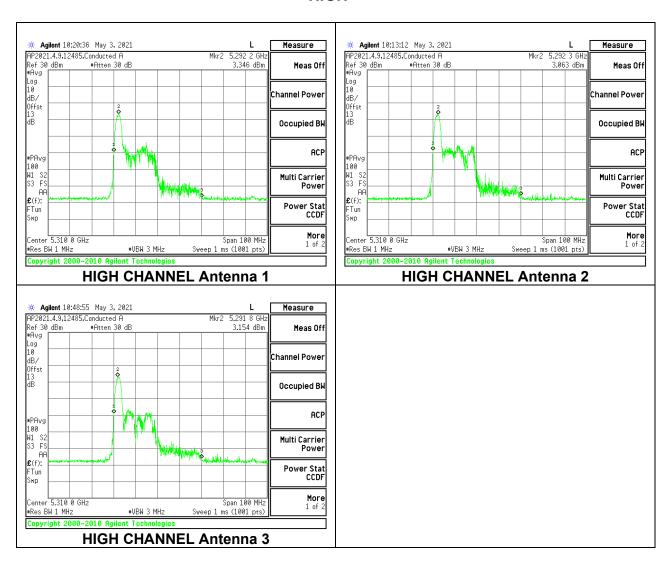
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	( <b>MHz</b> ) 5270	(dBm) 5.04	(dBm) 4.43	( <b>dBm)</b> 4.97	( <b>dBm)</b> 9.59	(dBm) 23.86	(dB) -14.26

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	3.82	3.34	3.31	8.40	9.30	-0.90
High	5310	3.35	3.06	3.15	8.09	9.30	-1.21





# DATE: 6/7/2021

# 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

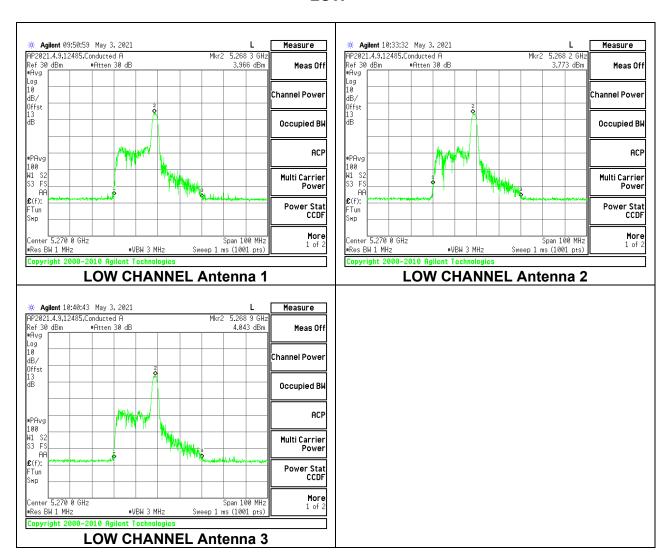
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5270	22.50	3.20	7.70	24.00	9.30
Low	3270	22.50	3.20	7.70	24.00	9.30

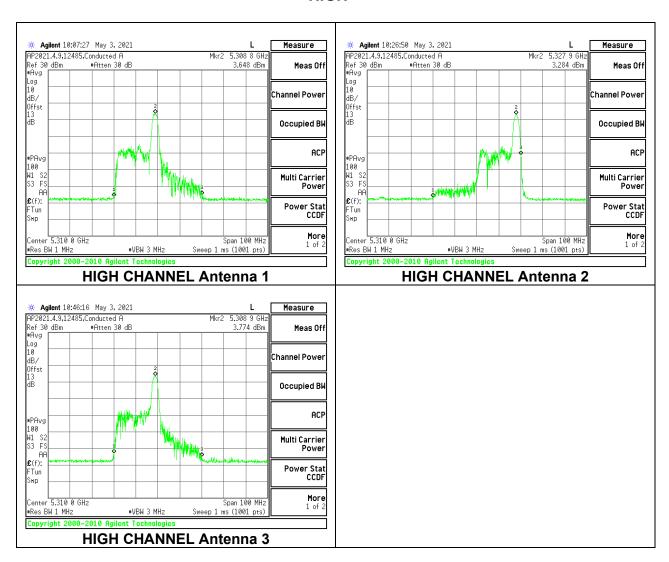
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	( <b>MHz</b> ) 5270	( <b>dBm)</b> 6.87	( <b>dBm</b> ) 5.52	( <b>dBm)</b> 6.89	(dBm) 11.24	(dBm) 24.00	( <b>dB</b> ) -12.76

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5270	3.97	3.77	4.04	8.83	9.30	-0.47
High	5310	3.65	3.28	3.77	8.47	9.30	-0.83





Test Engineer:	GA 12485
Test Date:	4/29/2021

# Bandwidth, Antenna Gain, and Limits

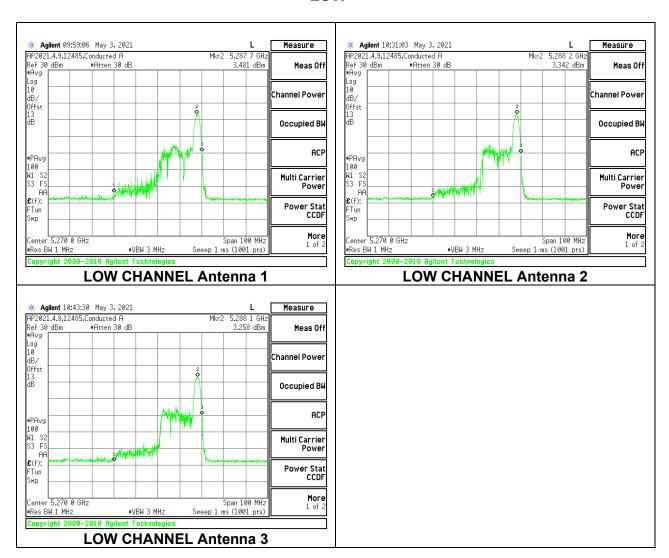
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Low	5270	19.20	3.20	7.70	23.83	9.30
High	5310	19.20	3.20	7.70	23.83	9.30

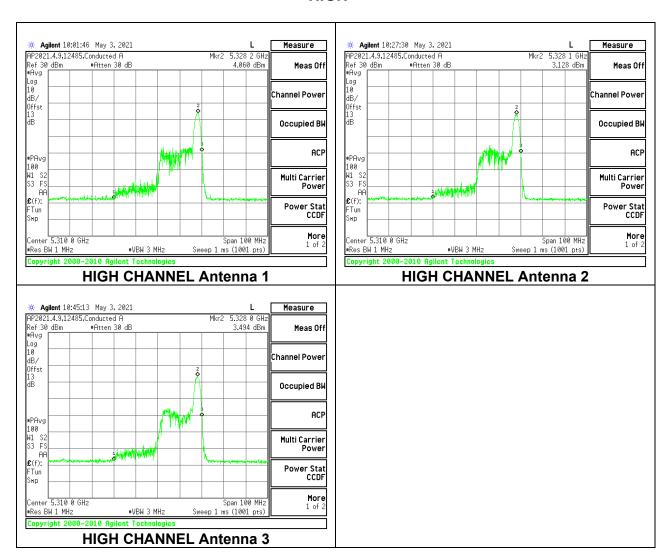
Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	( <b>MHz</b> ) 5270	( <b>dBm)</b> 5.93	(dBm) 4.74	( <b>dBm)</b> 5.68	( <b>dBm)</b> 10.25	(dBm) 23.83	-13.58

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Low	5270	3.48	3.34	3.26	8.26	9.30	-1.04
High	5310	4.06	3.13	3.49	8.48	9.30	-0.82





# 9.4.6. 802.11ax HE80 MODE 3TX IN THE 5.3GHz BAND (FCC)

# 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 996-Tones, RU Index 67

Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth. Antenna Gain, and Limits

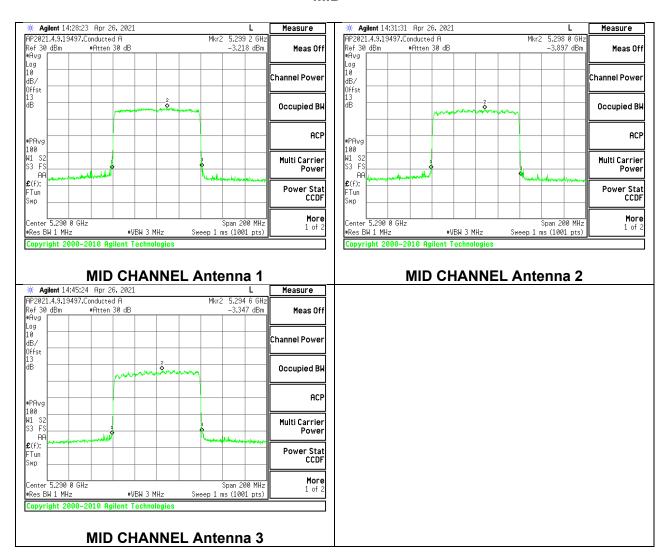
-u.i.a.i.a.	Danawian, Antonna Gam, and Emilio					
Channel	Frequency	Min	Uncorrelated	Correlated	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Mid	5290	83.40	3.20	7.70	24.00	9.30

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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#### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	13.84	13.28	13.71	18.39	24.00	-5.61

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5290	-3.22	-3.90	-3.35	1.42	9.30	-7.88



Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

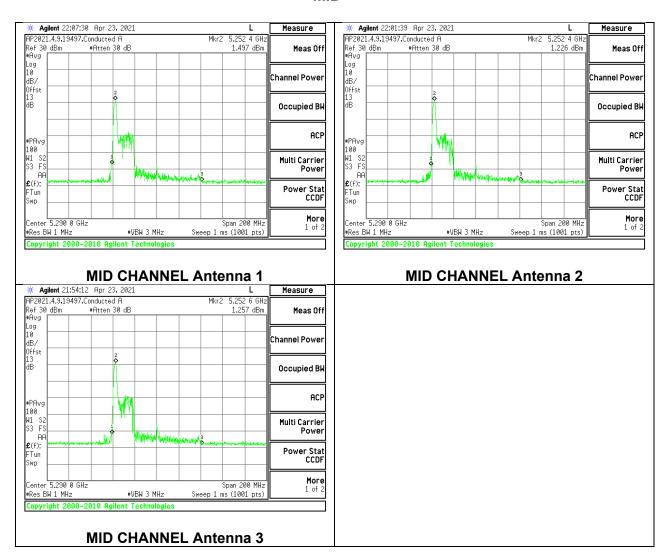
	,,					
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Mid	5290	20.20	3.20	7.70	24.00	9.30

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	5.59	4.91	5.33	10.06	24.00	-13.94

Channe	I Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5290	1.50	1.23	1.26	6.23	9.30	-3.07



Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

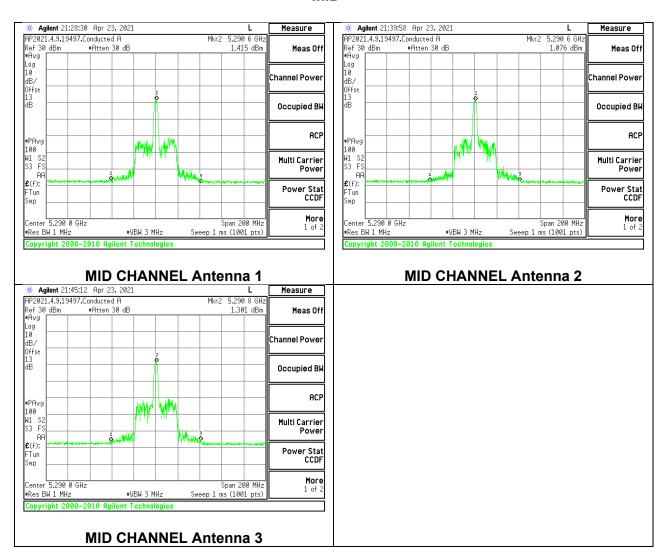
Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)
Mid	5290	39.40	3.20	7.70	24.00	9.30

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5290	5.45	4.96	5.34	10.03	24.00	-13.97

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5290	1.42	1.08	1.30	6.17	9.30	-3.13



Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

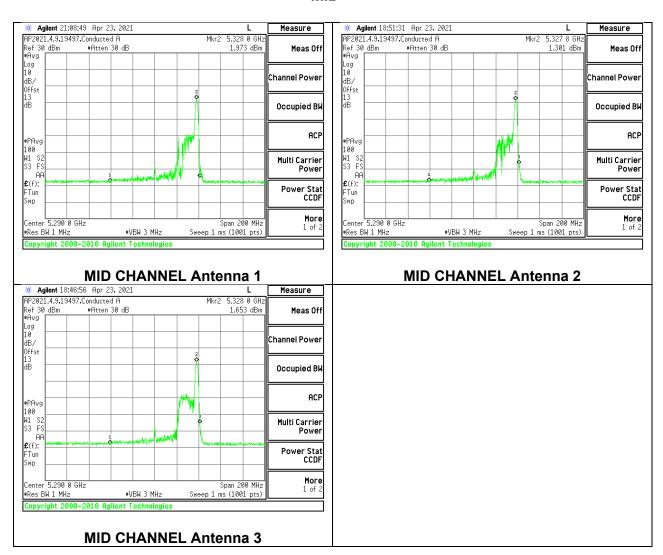
Channel	Frequency	Min	Directional	Directional	Power	PSD				
		26 dB	Gain	Gain	Limit	Limit				
		BW	for Power	for PSD						
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/1MHz)				
Mid	5290	20.00	3.20	7.70	24.00	9.30				

Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power		
		Meas	Meas	Meas	Corr'd	Limit	Margin		
		Power	Power	Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)		
Mid	5290	5.35	4.97	5.19	9.94	24.00	-14.06		

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5290	1.97	1.30	1.65	6.55	9.30	-2.75



# 9.4.7. 802.11ax HE20 MODE 3TX IN THE 5.6GHz BAND (FCC)

### 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min Uncorrelated C		Power	PSD
		26 dB Gain		Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5500	21.90	3.20	7.80	24.00	9.20
Mid	5580	21.95	3.20	7.80	24.00	9.20
High	5700	21.80	3.20	7.80	24.00	9.20
*144	5720	22.00	3.20	7.80	24.00	9.20

Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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#### **Output Power Results**

<del>Output 1 t</del>	Output Fower Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power		
		Meas	Meas	Meas	Corr'd	Limit	Margin		
		Power	Power	Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5500	15.27	14.73	15.34	19.89	24.00	-4.11		
Mid	5580	15.62	14.98	15.48	20.14	24.00	-3.86		
High	5700	15.02	14.62	14.96	19.64	24.00	-4.36		
*144	5720	15.34	14.82	15.47	19.99	24.00	-4.01		

#### **PSD Results**

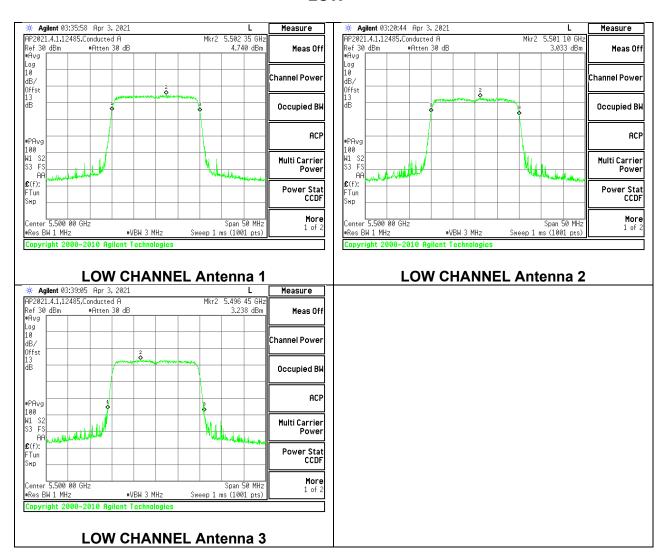
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/ 1MHz)	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)		1MHz)	1MHz)	1MHz)	
Low	5500	4.74	3.03	3.24	8.64	9.20	-0.56
Mid	5580	2.94	1.44	1.82	7.01	9.20	-2.19
High	5700	3.00	1.03	1.56	6.84	9.20	-2.36
*144	5720	2.94	0.91	1.95	6.91	9.20	-2.29

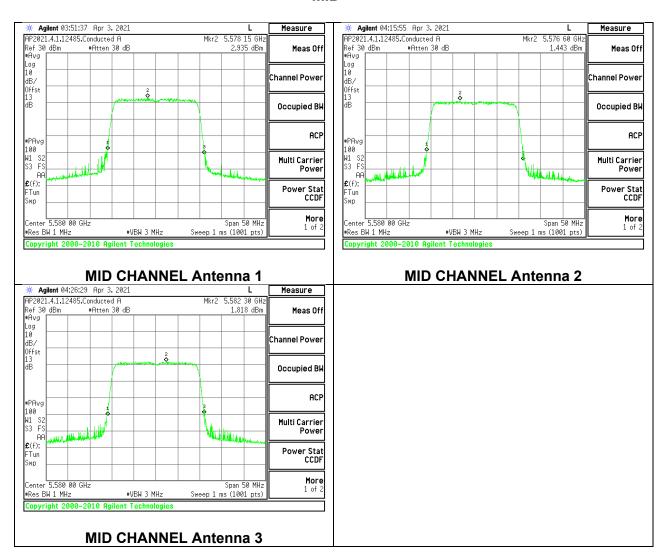
<sup>\*</sup>As per the calculation in this formula, Measured total bandwidth(22MHz) / 2 + 5 MHz, the worst case bandwidth is 16.00 MHz.

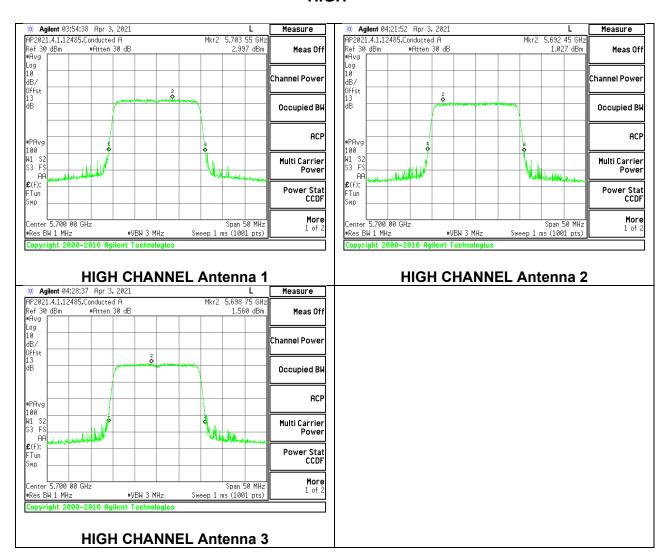
Based on the 16.00 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is 11+10\*log (16.00)= 23.04 dBm. The total signal power is 19.99 dBm which is less than the limit of 23.04 dBm.

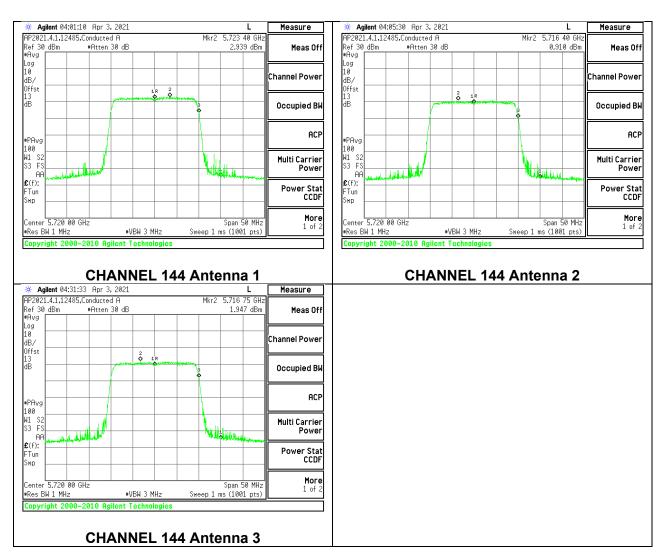
Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

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Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min Directional		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5500	19.90	3.20	7.80	23.99	9.20
Mid	5580	19.95	3.20	7.80	24.00	9.20
High	5700	20.00	3.20	7.80	24.00	9.20
144	5720	19.95	3.20	7.80	24.00	9.20

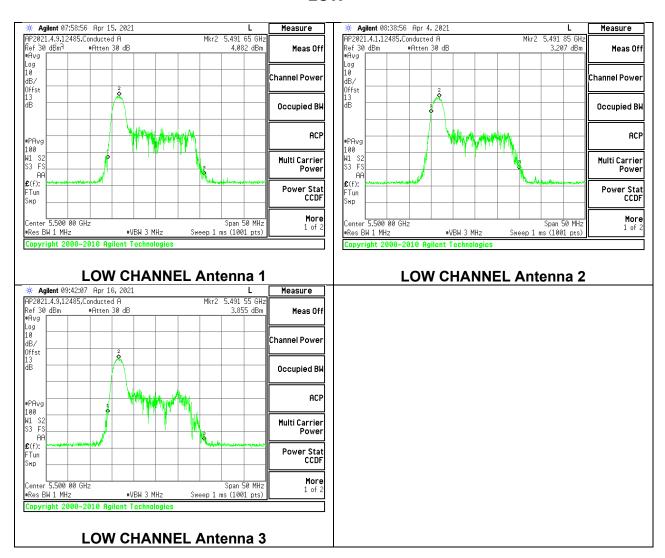
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD

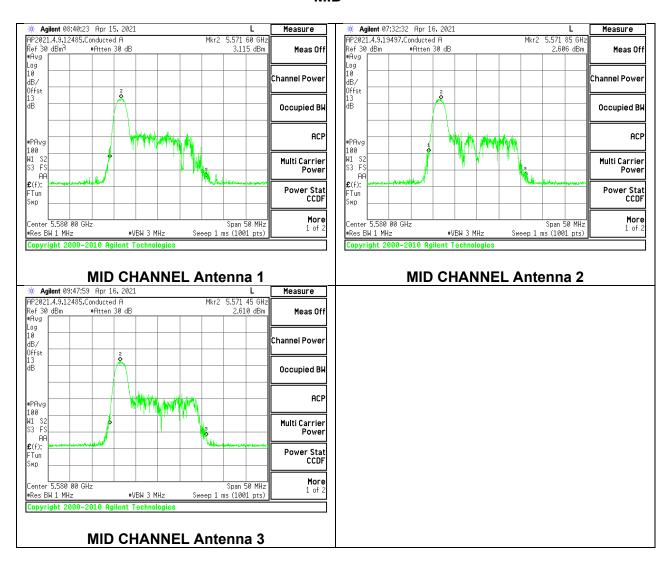
# **Output Power Results**

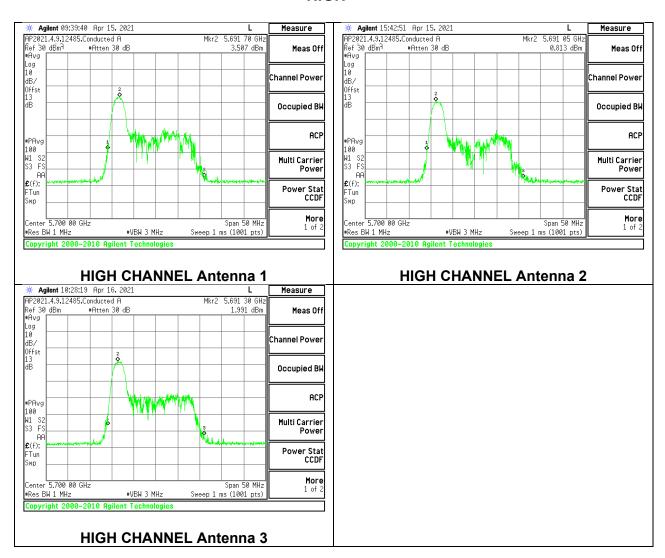
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	6.84	5.37	7.10	11.27	23.99	-12.72
Mid	5580	6.76	5.70	6.90	11.26	24.00	-12.74
High	5700	6.90	5.76	6.98	11.35	24.00	-12.65
144	5720	6.97	5.45	7.03	11.31	24.00	-12.69

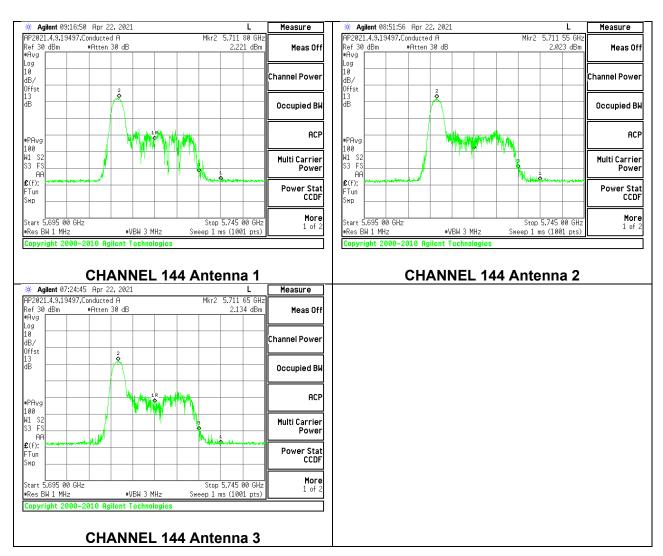
#### **PSD Results**

PSD Results									
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD		
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin		
	(MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dB)		
Low	5500	4.08	3.21	3.86	8.63	9.20	-0.57		
Mid	5580	3.12	2.61	2.61	7.68	9.20	-1.52		
High	5700	3.51	0.81	1.99	7.15	9.20	-2.05		
144	5720	2.22	2.02	2.13	7.03	9.20	-2.17		









Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min Directional I		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5500	18.35	3.20	7.80	23.64	9.20
Mid	5580	18.30	3.20	7.80	23.62	9.20
High	5700	18.35	3.20	7.80	23.64	9.20
144	5720	18.45	3.20	7.80	23.66	9.20

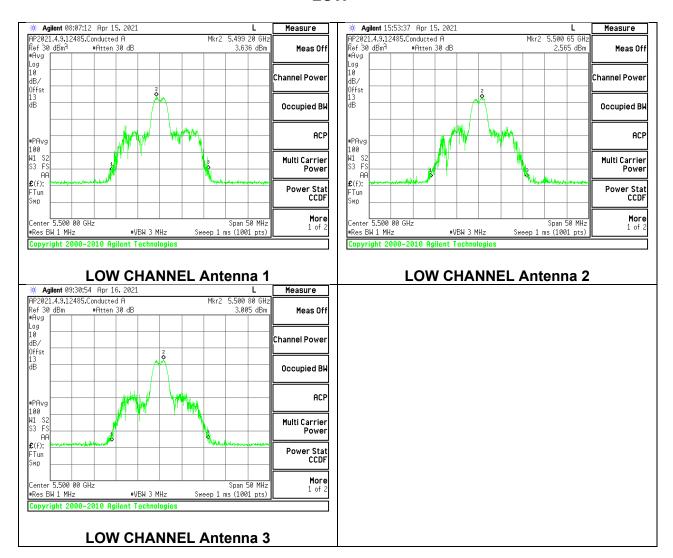
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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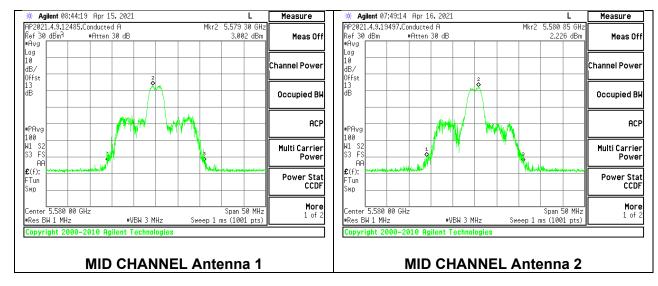
### **Output Power Results**

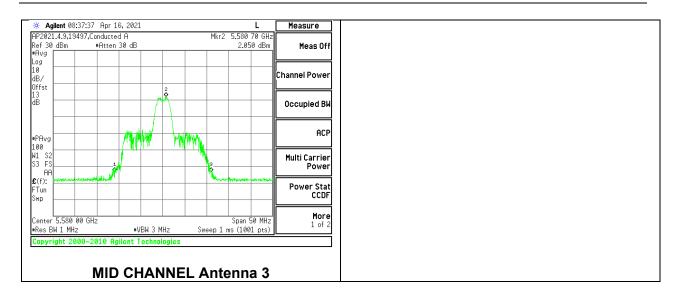
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	7.50	6.47	7.33	11.89	23.64	-11.74
Mid	5580	7.43	6.34	7.36	11.84	23.62	-11.78
High	5700	7.50	6.44	7.44	11.92	23.64	-11.71
144	5720	7.47	6.59	7.46	11.96	23.66	-11.70

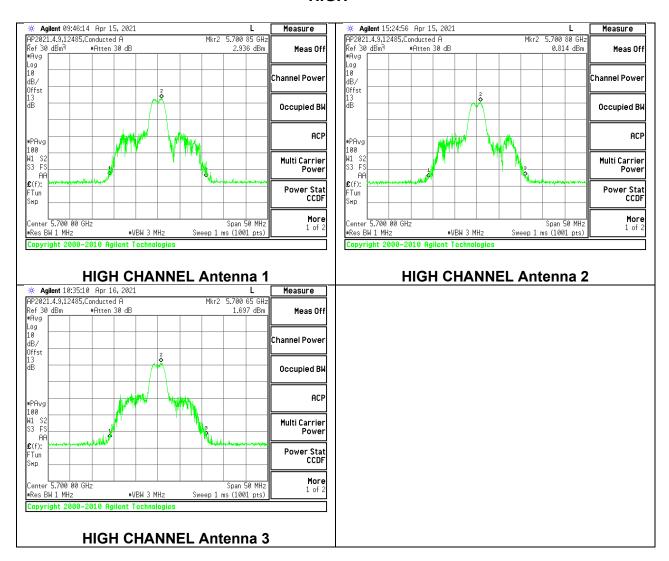
#### **PSD Results**

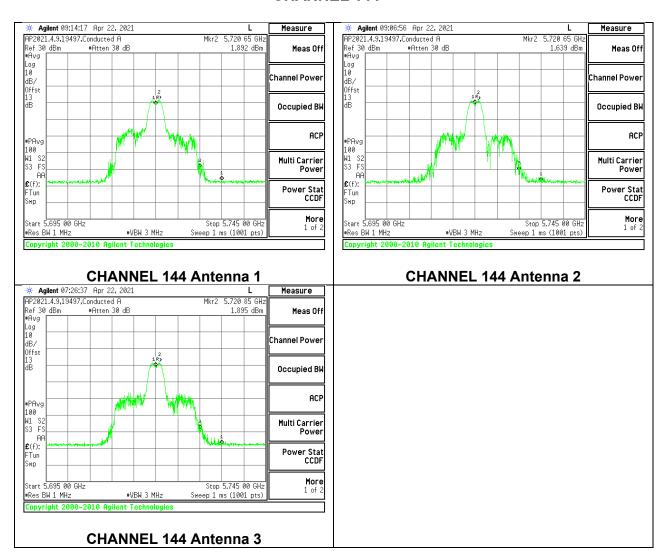
PSD Results									
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD		
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin		
	(MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dB)		
Low	5500	3.64	2.57	3.01	7.99	9.20	-1.21		
Mid	5580	3.00	2.23	2.05	7.35	9.20	-1.85		
High	5700	2.94	0.81	1.70	6.80	9.20	-2.40		
144	5720	1.89	1.64	1.90	6.71	9.20	<b>-</b> 2.49		











Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min Directional [		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5500	20.00	3.20	7.80	24.00	9.20
Mid	5580	20.15	3.20	7.80	24.00	9.20
High	5700	20.00	3.20	7.80	24.00	9.20
*144	5720	20.00	3.20	7.80	24.00	9.20

#### **Output Power Results**

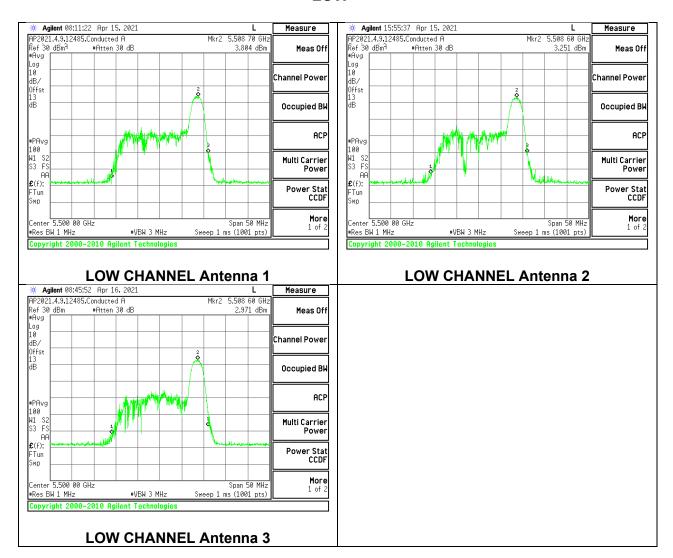
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5500	7.14	5.85	7.02	11.48	24.00	-12.52
Mid	5580	7.12	5.86	6.95	11.45	24.00	-12.55
High	5700	7.06	5.98	7.21	11.55	24.00	-12.45
*144	5720	7.05	5.88	7.01	11.45	24.00	-12.55

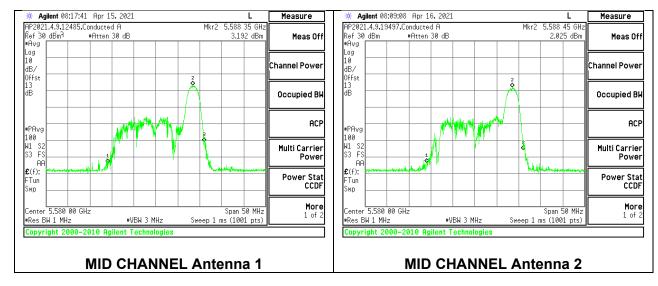
#### PSD Results

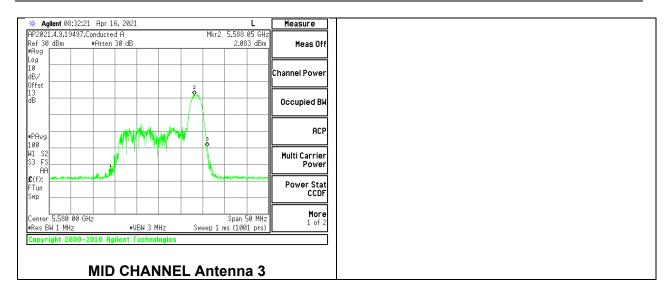
PSD Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin	
	(MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/	(dB)	
Low	5500	3.80	3.25	2.97	8.26	9.20	-0.94	
Mid	5580	3.19	2.03	2.08	7.37	9.20	-1.83	
High	5700	2.18	0.79	2.03	6.61	9.20	-2.59	
*144	5720	2.53	1.82	2.20	7.10	9.20	-2.10	

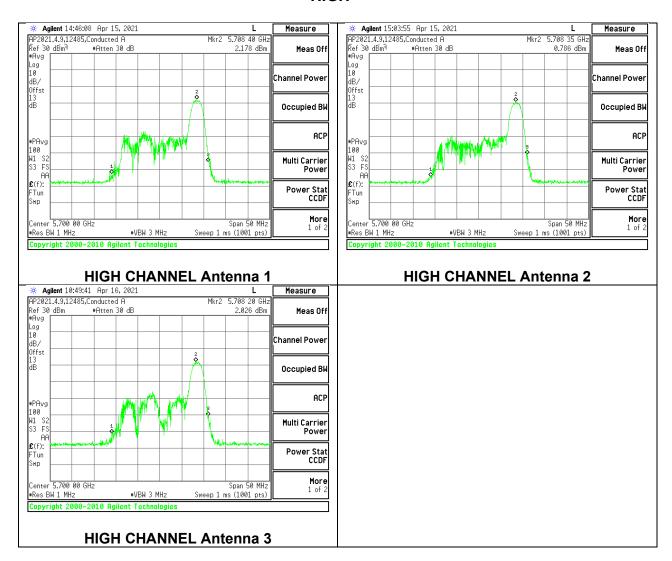
<sup>\*</sup>As per the calculation in this formula, Measured total bandwidth(20) / 2 - 3 MHz, the worst case bandwidth is 7.00 MHz.

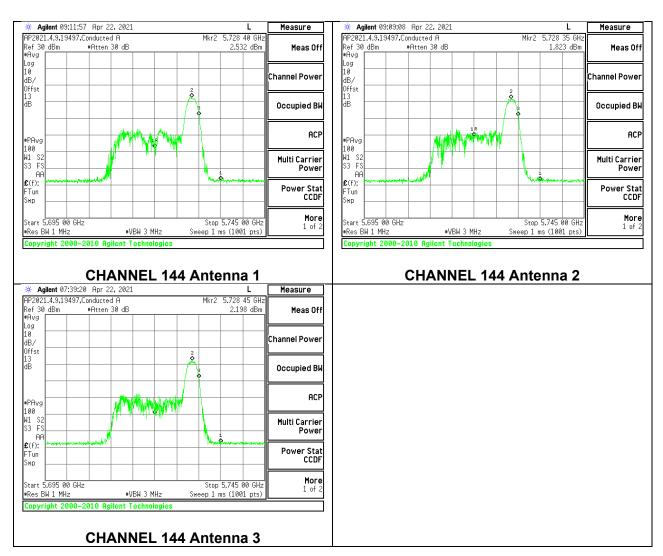
Based on the 7.00 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated worst case power limit is 11+10\*log (7.00)= 19.45 dBm. The total signal power is 11.45 dBm which is less than the limit of 19.45 dBm.











# 9.4.8. 802.11ax HE40 MODE 3TX IN THE 5.6GHz BAND (FCC)

### 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 484-Tones, RU Index 65

Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Uncorrelated	Correlated	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5510	40.60	3.20	7.80	24.00	9.20
Mid	5550	40.70	3.20	7.80	24.00	9.20
High	5670	40.70	3.20	7.80	24.00	9.20
*142	5710	40.60	3.20	7.80	24.00	9.20

Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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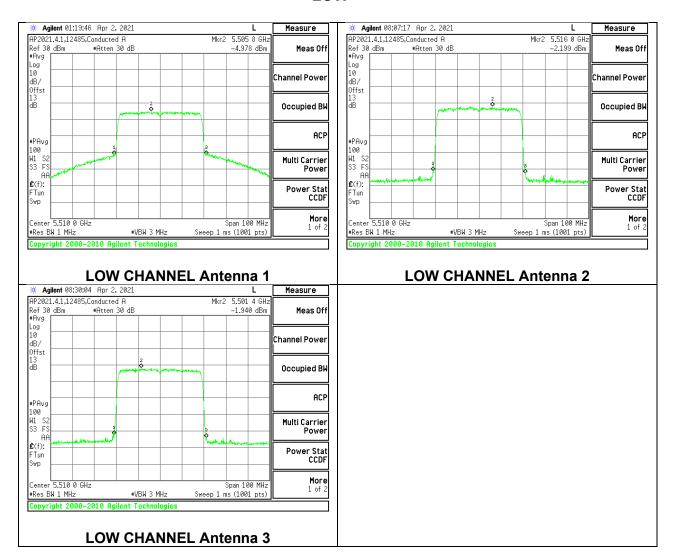
## **Output Power Results**

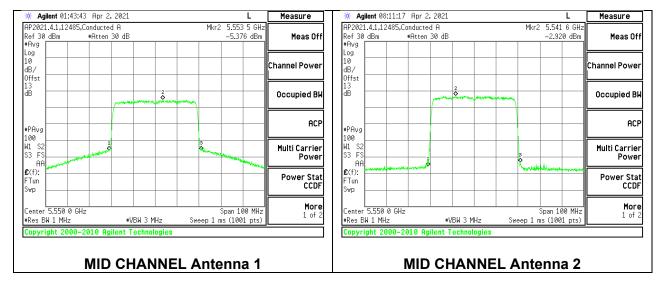
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	12.49	12.22	12.55	17.19	24.00	-6.81
Mid	5550	13.00	12.38	12.74	17.49	24.00	-6.51
High	5670	12.88	12.40	12.71	17.44	24.00	-6.56
*142	5710	12.47	12.37	12.59	17.25	24.00	-6.75

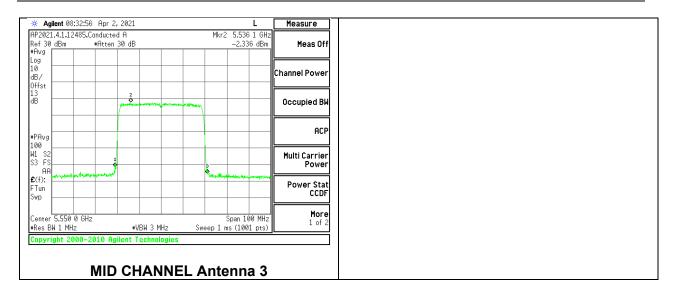
# **PSD Results**

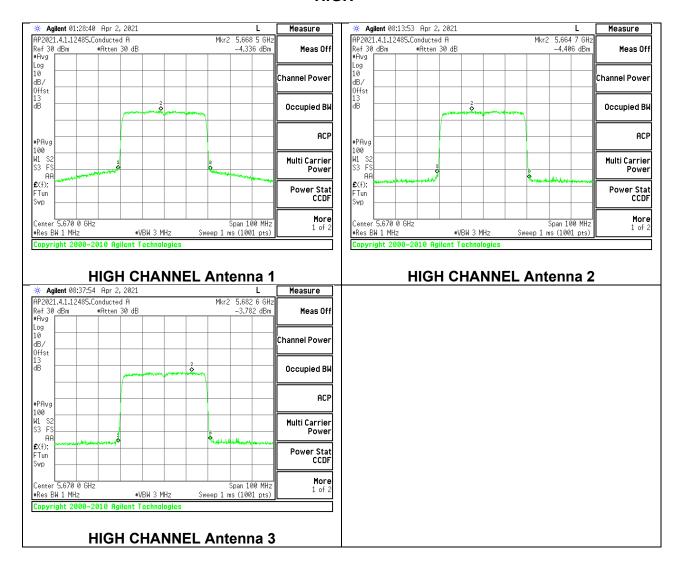
I OD INGS	F3D Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD		
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin		
	(MHz)	(dBm/	(dBm/ 1MHz)	(dBm/	(dBm/	(dBm/	(dB)		
	(1411 12)	•	(abiiii iiviiiz)	•	•	`	(ab)		
		1MHz)		1MHz)	1MHz)	1MHz)			
Low	5510	-4.98	-2.20	-1.94	2.06	9.20	-7.14		
Mid	5550	-5.38	-2.92	-2.34	1.54	9.20	-7.66		
High	5670	-4.34	-4.41	-3.78	0.74	9.20	-8.46		
*142	5710	-2.87	-3.61	-3.38	1.63	9.20	-7.57		

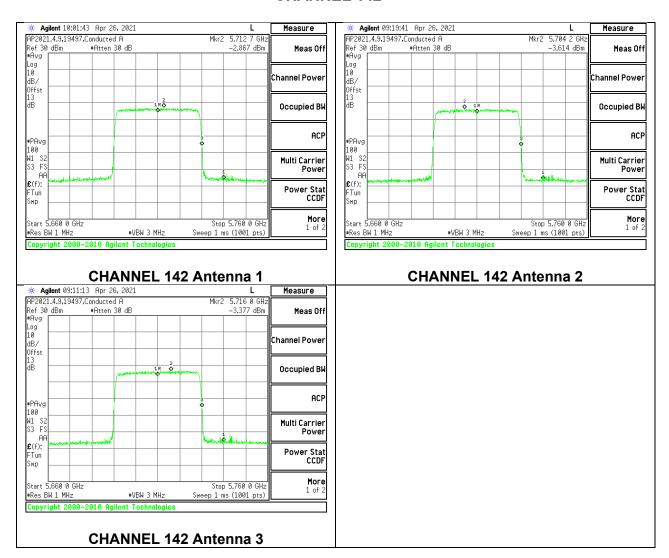
<sup>\*</sup>The 26dB signal bandwidth wthin the 5470-5725 MHz band clearly exceed 20MHz and so the limit for the power within the 5470-5725MHz band is 24.00dBm.











Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Min Directional D		Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5510	19.20	3.20	7.80	23.83	9.20
Mid	5550	19.20	3.20	7.80	23.83	9.20
High	5670	19.30	3.20	7.80	23.86	9.20
142	5710	19.30	3.20	7.80	23.86	9.20

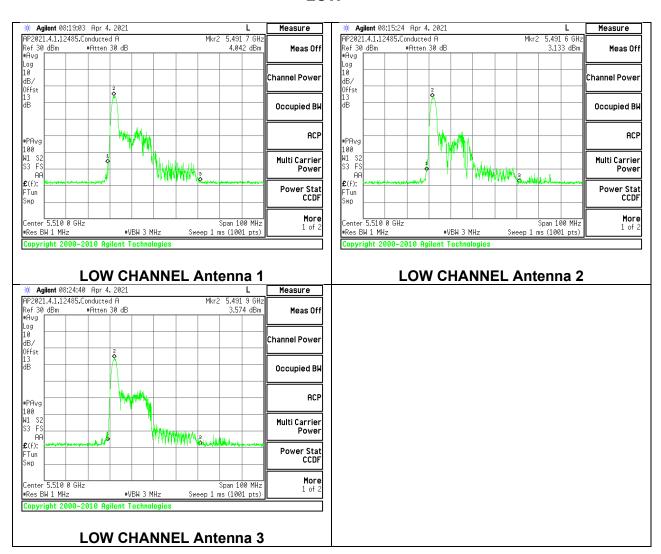
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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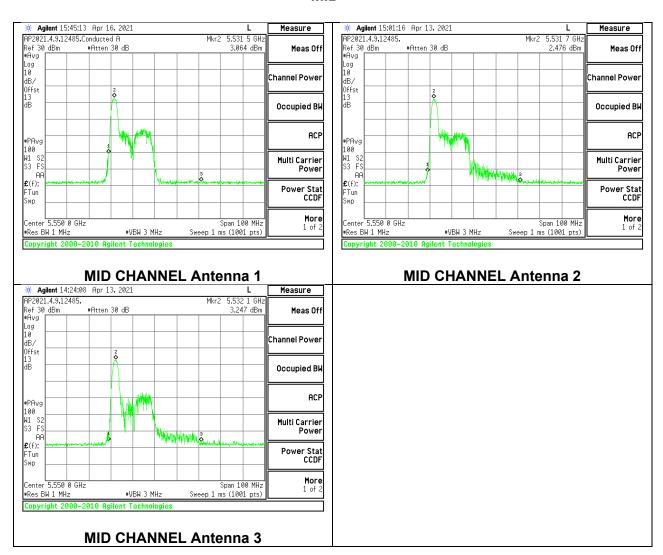
### **Output Power Results**

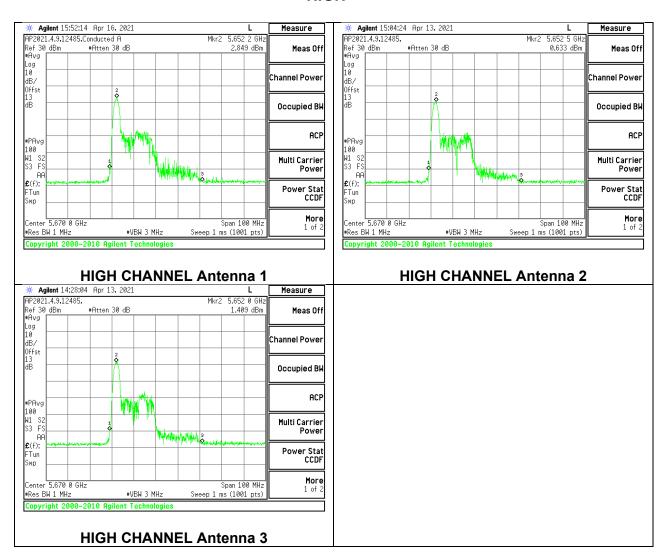
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	6.69	6.29	6.55	11.28	23.83	-12.55
Mid	5550	6.16	5.49	5.88	10.62	23.83	-13.21
High	5670	6.26	5.92	6.10	10.87	23.86	-12.99
142	5710	5.18	4.82	5.06	9.79	23.86	-14.06

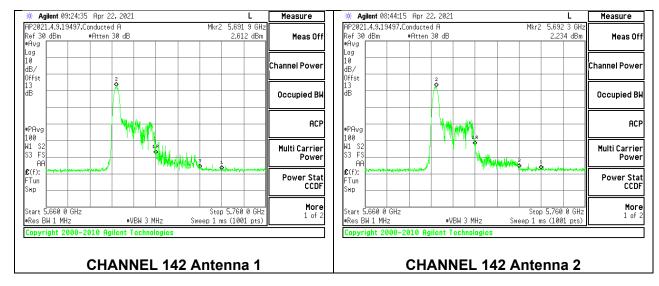
# **PSD** Results

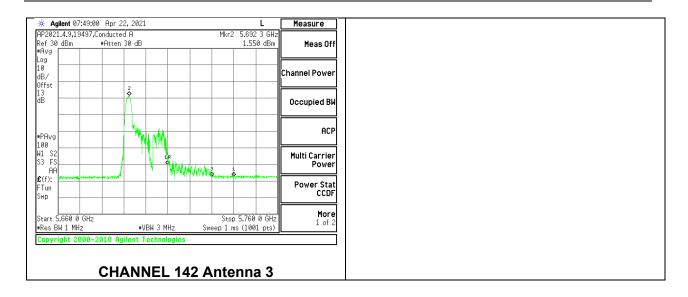
F3D Results							
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		1MHz)	1MHz)	1MHz)	1MHz)	1MHz)	
Low	5510	4.04	3.13	3.57	8.50	9.20	-0.70
Mid	5550	3.06	2.48	3.25	7.84	9.20	-1.36
High	5670	2.85	0.63	1.41	6.63	9.20	-2.57
142	5710	2.61	2.23	1.55	7.06	9.20	-2.14











Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	Gain	Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5510	22.30	3.20	7.80	24.00	9.20
Mid	5550	22.50	3.20	7.80	24.00	9.20
High	5670	22.50	3.20	7.80	24.00	9.20
142	5710	22.30	3.20	7.80	24.00	9.20

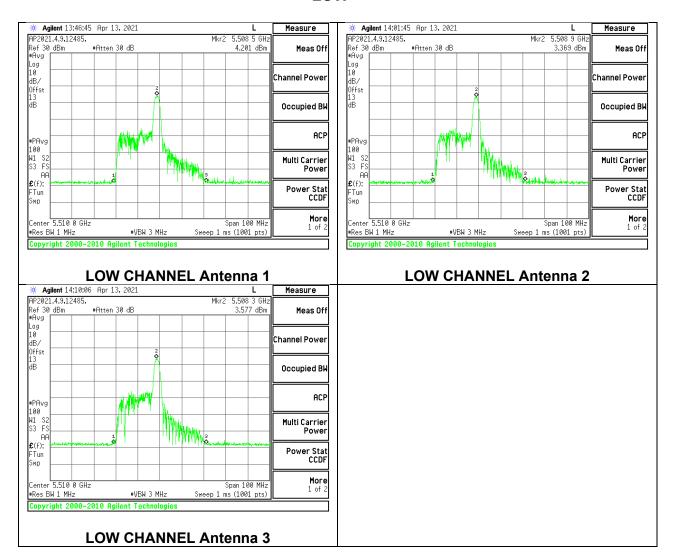
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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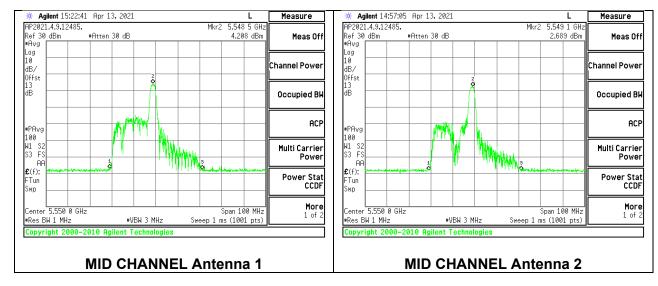
### **Output Power Results**

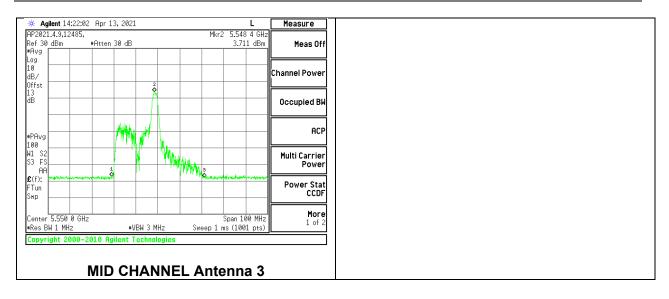
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	7.28	6.55	7.13	11.77	24.00	-12.23
Mid	5550	7.36	6.60	6.94	11.75	24.00	-12.25
High	5670	7.22	6.93	7.39	11.96	24.00	-12.04
142	5710	5.97	5.20	5.66	10.39	24.00	-13.61

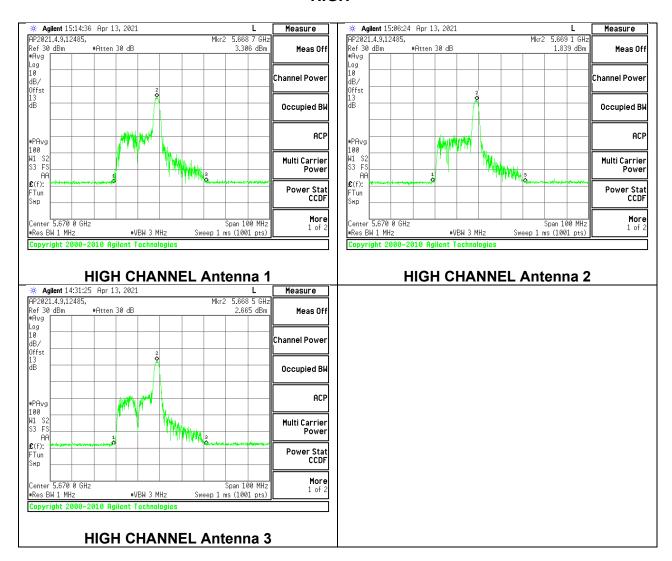
#### **PSD Results**

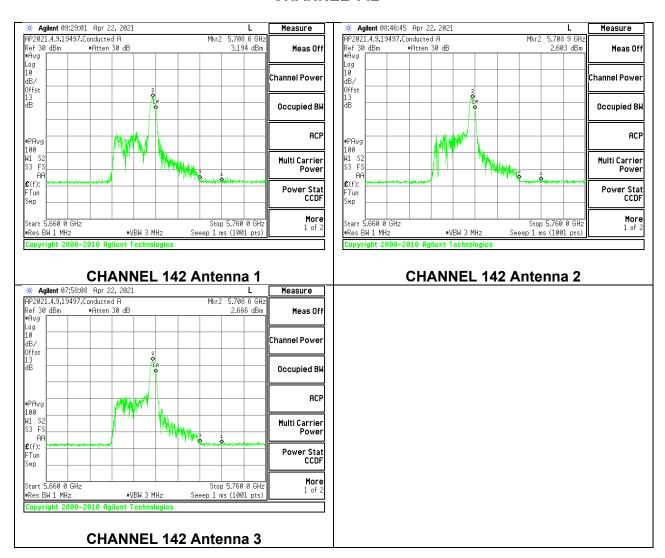
P3D Results							
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin
	(MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dB)
Low	5510	4.20	3.37	3.58	8.63	9.20	-0.57
Mid	5550	4.21	2.69	3.71	8.48	9.20	-0.72
High	5670	3.31	1.84	2.67	7.55	9.20	-1.65
142	5710	3.19	2.60	2.67	7.73	9.20	-1.47











Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min Directional		Directional	Power	PSD
		26 dB Gain		Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5510	19.20	3.20	7.80	23.83	9.20
Mid	5550	19.20	3.20	7.80	23.83	9.20
High	5670	19.20	3.20	7.80	23.83	9.20
*142	5710	19.30	3.20	7.80	23.86	9.20

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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#### **Output Power Results**

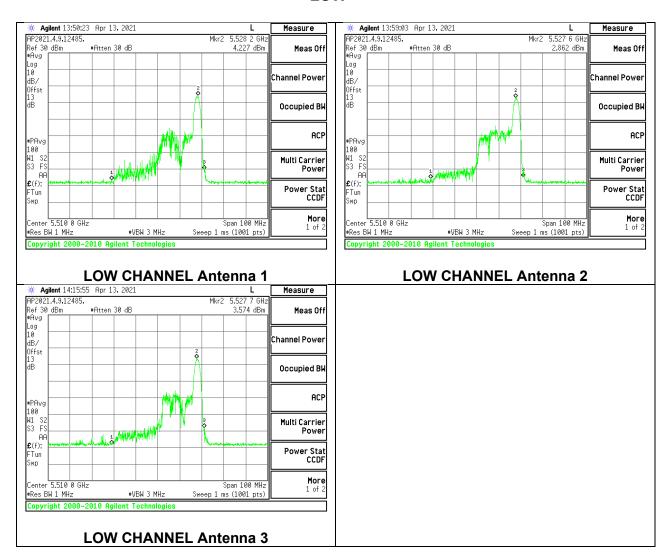
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5510	6.44	6.17	6.31	11.08	23.83	-12.75
Mid	5550	6.04	5.77	6.10	10.74	23.83	-13.09
High	5670	6.38	5.46	6.40	10.87	23.83	-12.96
*142	5710	5.22	4.97	5.20	9.90	23.86	-13.95

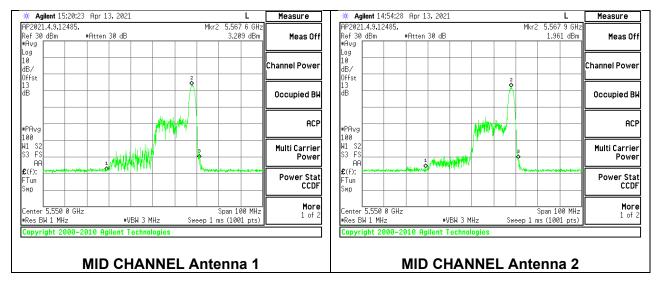
#### **PSD Results**

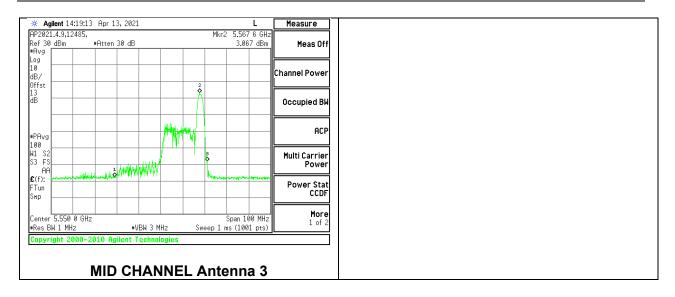
PSD Results							
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
		Meas PSD	Meas PSD	Meas PSD	Corr'd PSD	Limit	Margin
	(MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dBm/ 1MHz)	(dB)
Low	5510	4.23	2.86	3.57	8.49	9.20	-0.71
Mid	5550	3.21	1.96	3.07	7.68	9.20	-1.52
High	5670	3.47	1.26	2.06	7.26	9.20	-1.94
*142	5710	2.41	2.09	2.44	7.22	9.20	-1.98

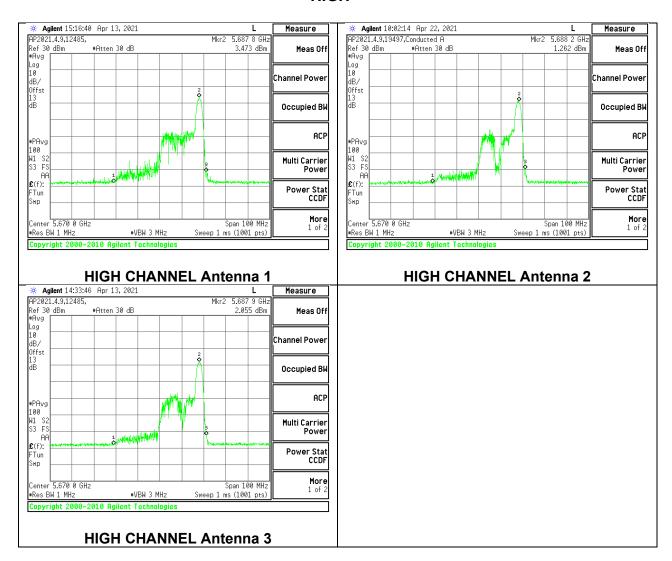
<sup>\*</sup>As per the calculation in this formula, Measured total bandwidth (19.3) / 2 - 3 MHz, the worst case bandwidth is 6.65 MHz.

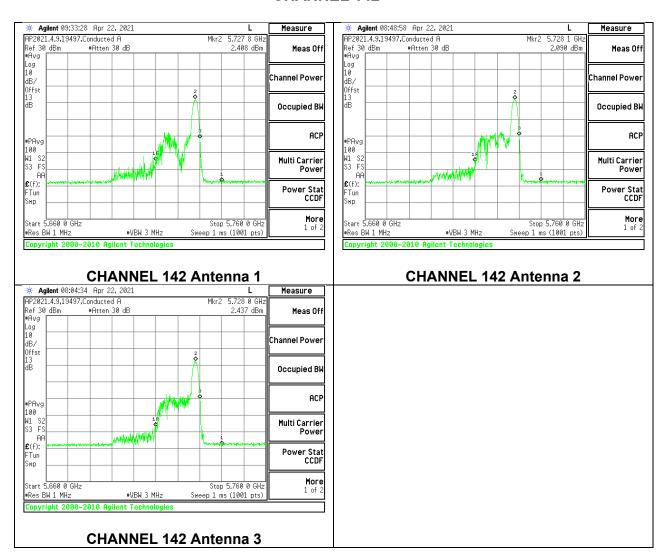
Based on the 6.65 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated worst case power limit is 11+10\*log (6.65)= 19.23 dBm. The total signal power is 9.90 dBm which is less than the limit of 19.23 dBm.











# 9.4.9. 802.11ax HE80 MODE 3TX IN THE 5.6GHz BAND (FCC)

### 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 996-Tones, RU Index 67

Test Engineer:	GA 12485
Test Date:	4/29/2021

# Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Uncorrelated	Correlated	Power	PSD
		26 dB Gain		Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5530	87.00	3.20	7.80	24.00	9.20
High	5610	89.80	3.20	7.80	24.00	9.20
*138	5690	87.60	3.20	7.80	24.00	9.20

Duty Cycle CF (dB) 0.13
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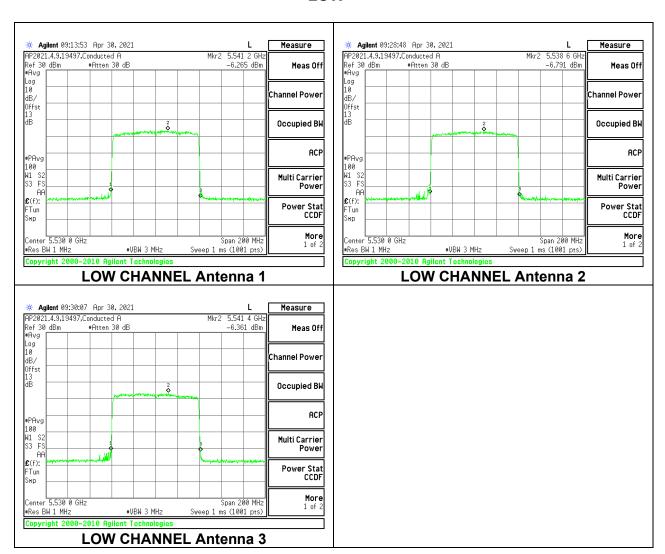
#### **Output Power Results**

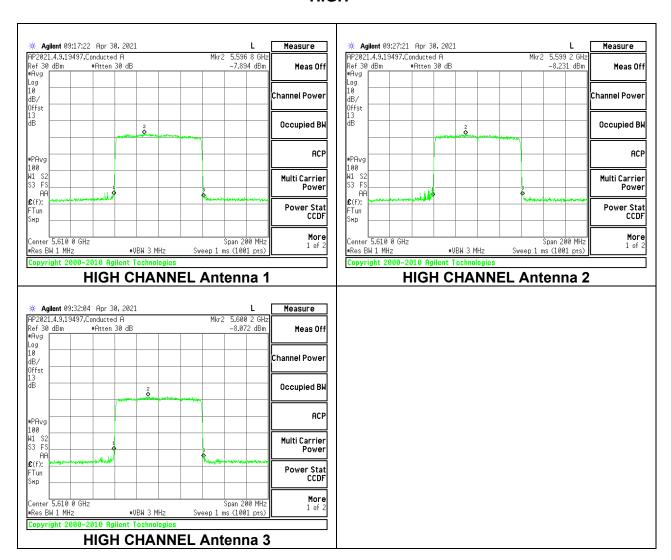
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas Power	Meas Power	Meas Power	Corr'd Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5530	10.84	10.38	10.67	15.41	24.00	-8.59
High	5610	9.32	8.86	9.15	13.89	24.00	-10.11
*138	5690	9.11	8.59	8.93	13.65	24.00	-10.35

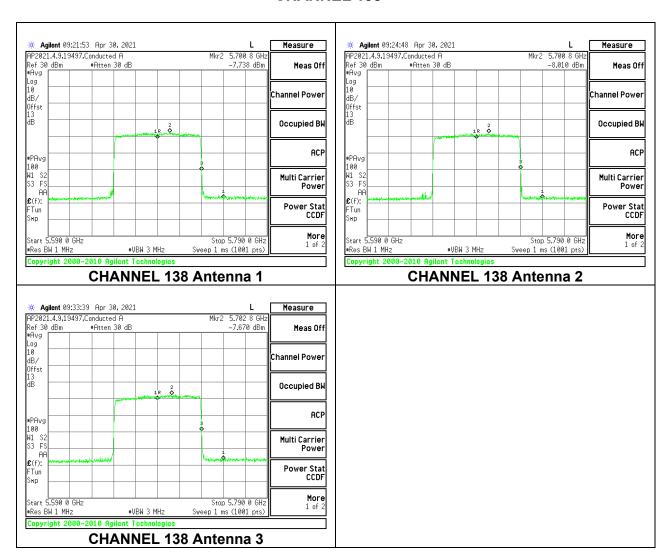
### **PSD Results**

1 OD Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas	Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD	PSD			
	(MHz)	(dBm/	(dBm/ 1MHz)	(dBm/	(dBm/	(dBm/	(dB)	
		1MHz)		1MHz)	1MHz)	1MHz)		
Low	5530	-6.27	-6.79	-6.36	-1.57	9.20	-10.77	
High	5610	-7.89	-8.23	-8.07	-3.16	9.20	-12.36	
*138	5690	-7.74	-8.01	-7.67	<b>-</b> 2.90	9.20	-12.10	

<sup>\*</sup>The 26dB signal bandwidth wthin the 5470-5725 MHz band clearly exceed 20MHz and so the limit for the power within the 5470-5725MHz band is 24.00dBm.







Test Engineer:	GA 12485
Test Date:	4/29/2021

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB	26 dB Gain		Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5530	20.20	3.20	7.80	24.00	9.20
High	5610	20.20	3.20	7.80	24.00	9.20
138	5690	20.20	3.20	7.80	24.00	9.20

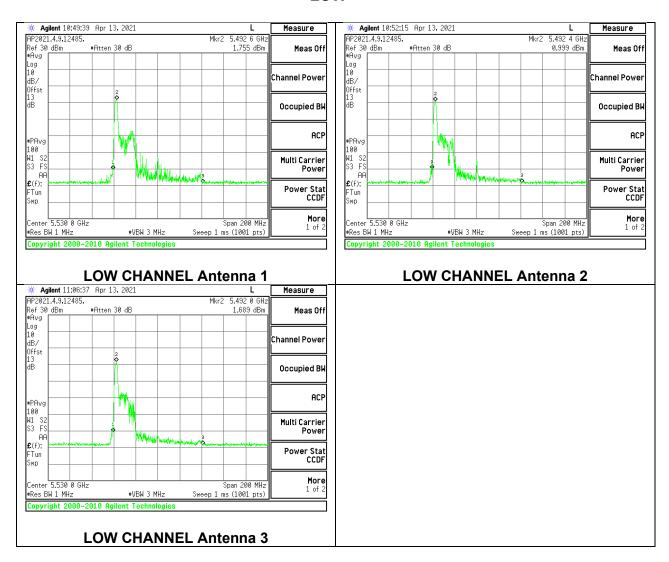
Duty Cycle CF (dB) 0.	.13	Included in Calculations of Corr'd PSD
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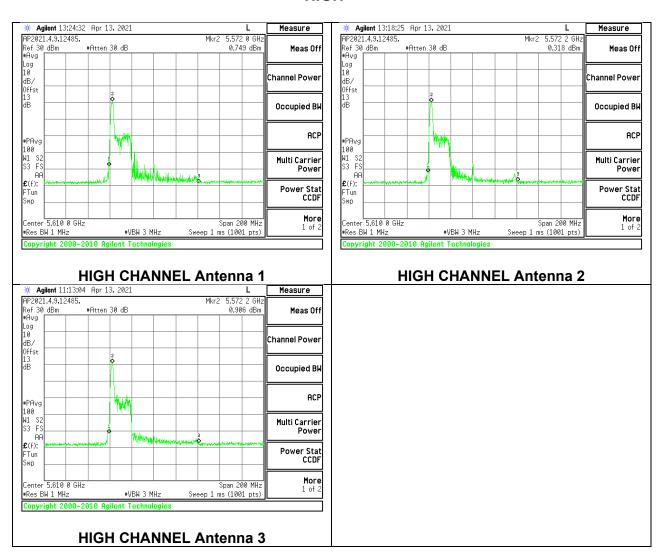
## **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
	(	()	(	(	(	(	( - )
Low	5530	5.36	4.98	5.22	9.96	24.00	-14.04
Low High	,	, ,	, ,	,	, ,	,	. ,

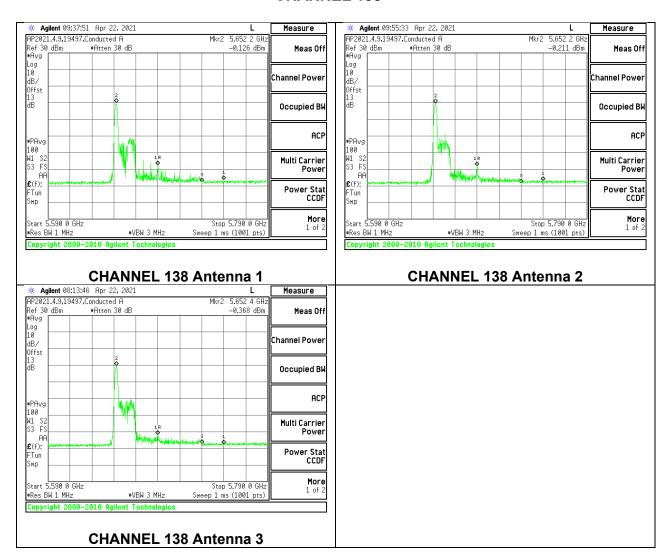
#### **PSD Results**

FOD Nesults								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas	Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD	PSD			
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)	
		1MHz)	1MHz)	1MHz)	1MHz)	1MHz)		
Low	5530	1.76	1.00	1.69	6.40	9.20	-2.80	
High	5610	0.75	0.32	0.91	5.57	9.20	-3.63	
138	5690	-0.13	-0.21	-0.37	4.67	9.20	-4.53	





### **CHANNEL 138**



## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 18

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min	Directional	Directional	Power	PSD
		26 dB Gain		Gain	Limit	Limit
		BW	for Power	for PSD		
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
						1MHz)
Low	5530	39.20	3.20	7.80	24.00	9.20
High	5610	39.20	3.20	7.80	24.00	9.20
138	5690	39.20	3.20	7.80	24.00	9.20

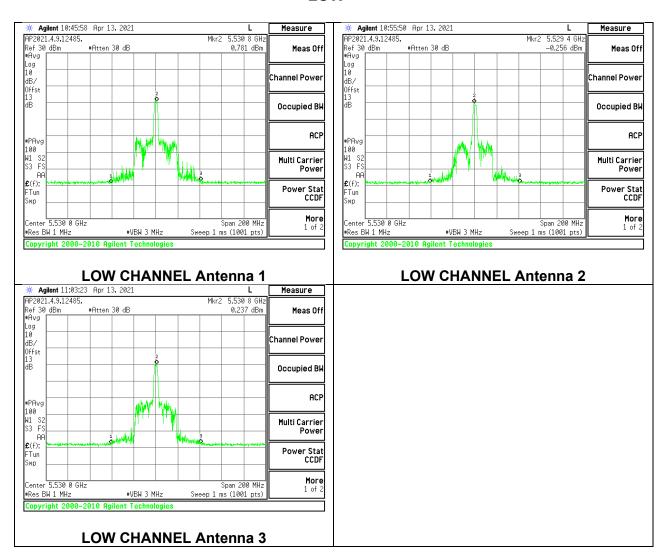
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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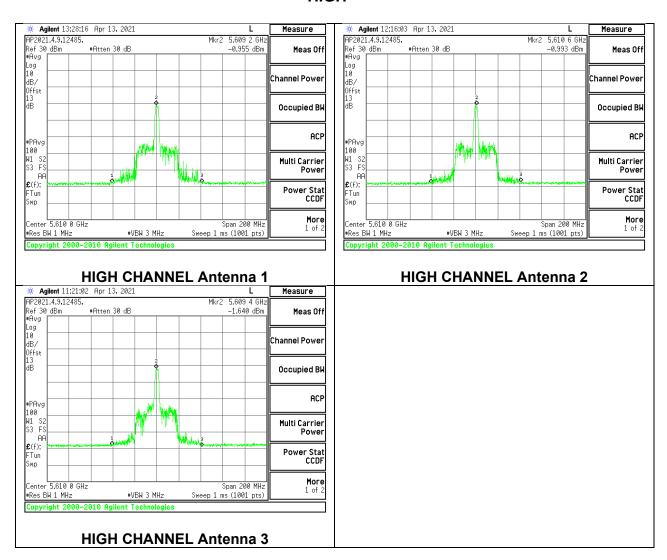
### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas Power	Meas Power	Meas Power	Corr'd Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5530	5.58	5.25	5.47	10.21	24.00	-13.79
1		0.00					
High	5610	5.41	5.06	5.33	10.04	24.00	-13.96

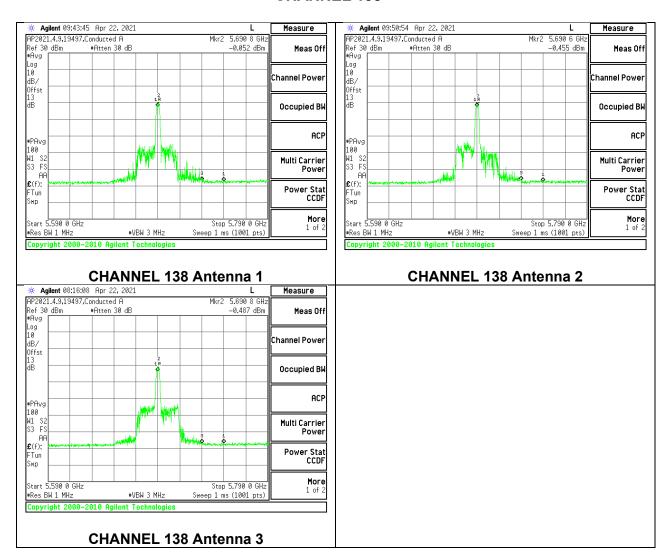
#### **PSD Results**

1 OD Nesuits								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas	Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD	PSD			
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)	
		1MHz)	1MHz)	1MHz)	1MHz)	1MHz)		
Low	5530	0.78	-0.26	0.24	5.18	9.20	-4.02	
High	5610	-0.96	-0.99	-1.64	3.72	9.20	-5.48	
138	5690	-0.05	-0.46	-0.49	4.57	9.20	-4.63	





### **CHANNEL 138**



### 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 36

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency	Min Directional Directional		Directional	Power	PSD
		26 dB BW	Gain	Gain for PSD	Limit	Limit
	(8.011.)		for Power		(15.)	(15 (
	(MHz)	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/ 1MHz)
Low	5530	20.00	3.20	7.80	24.00	9.20
High	5610	20.00	3.20	7.80	24.00	9.20
*138	5690	19.80	3.20	7.80	23.97	9.20

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

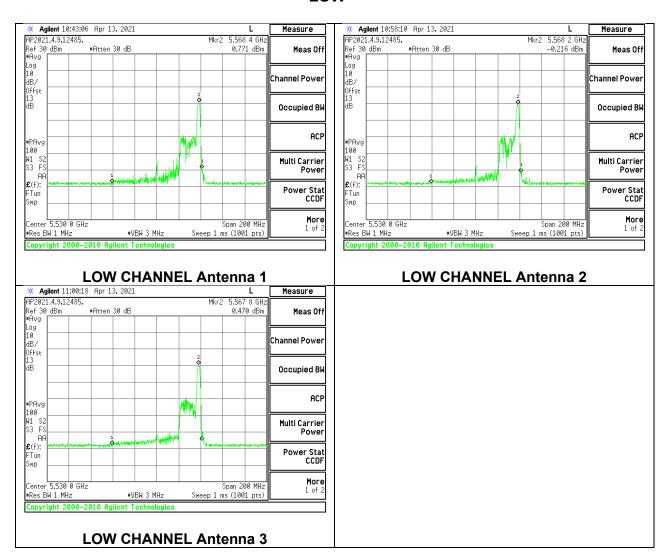
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas Power	Meas Power	Meas Power	Corr'd Power	Limit	Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5530	5.31	5.07	5.19	9.96	24.00	-14.04
				00			
High	5610	5.03	4.99	5.35	9.90	24.00	-14.10

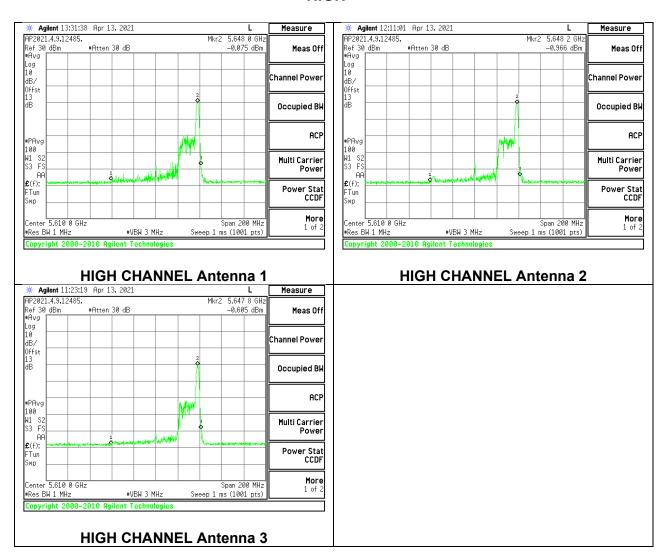
#### **PSD Results**

1 OD Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas	Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD	PSD			
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)	
		1MHz)	1MHz)	1MHz)	1MHz)	1MHz)		
Low	5530	0.77	-0.22	0.47	5.26	9.20	-3.94	
High	5610	-0.08	-0.97	-0.61	4.37	9.20	-4.83	
*138	5690	1.82	1.19	1.09	6.28	9.20	-2.92	

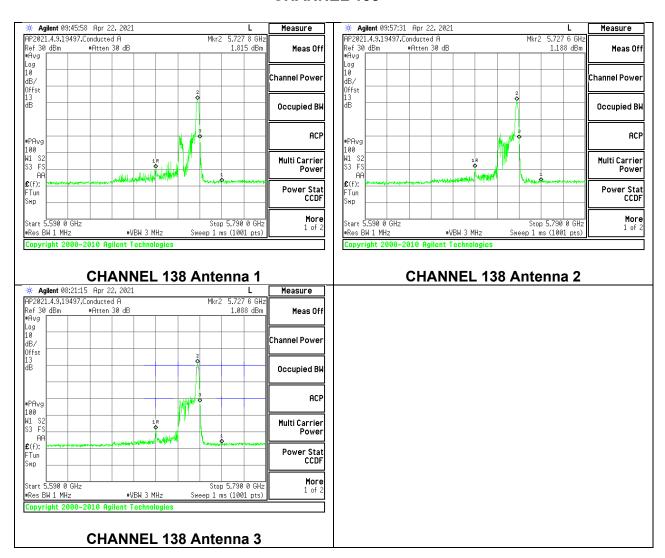
<sup>\*</sup>As per the calculation in this formula, Measured total bandwidth (19.8) / 2 - 3 MHz, the worst case bandwidth is 6.9 MHz.

Based on the 6.9 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated worst case power limit is 11+10\*log (6.9)= 19.39 dBm. The total signal power is 10.05 dBm which is less than the limit of 19.39 dBm.





### **CHANNEL 138**



# 9.4.10. 802.11ax HE20 MODE 3TX IN THE 5.8GHz BAND (FCC)

## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### **Antenna Gain and Limit**

Channel	Frequency	Uncorrelated	Correlated	Power	PSD
		Gain	Gain	Limit	Limit
		For Power	For PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					500KHz)
Low	5745	2.90	7.60	30.00	28.40
Mid	5785	2.90	7.60	30.00	28.40
High	5825	2.90	7.60	30.00	28.40

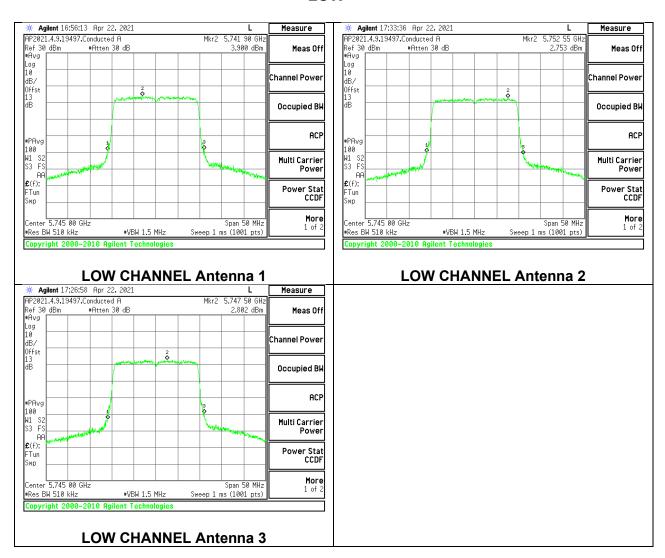
Duty Cycle CF (dB) 0.13	Included in Calculations of Corr'd PSD
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#### **Output Power Results**

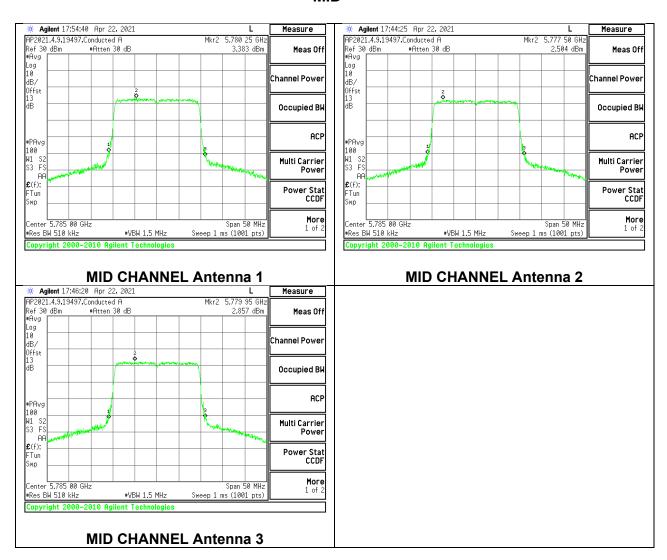
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	17.84	17.05	17.37	22.20	30.00	-7.80
Mid	5785	17.54	16.85	17.22	21.98	30.00	-8.02
High	5825	18.00	16.88	16.91	22.07	30.00	-7.93

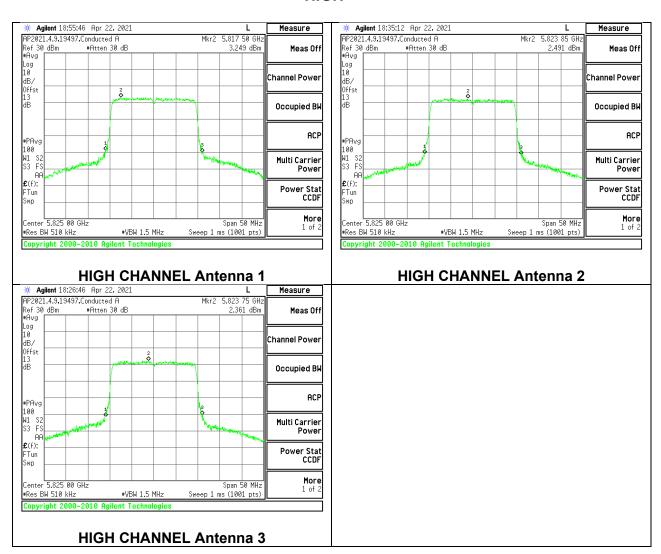
#### **PSD Results**

1 OD Results								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD	
		Meas	Meas	Meas	Corr'd	Limit	Margin	
		PSD	PSD	PSD	PSD			
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)	
		500KHz)	500KHz)	500KHz)	500KHz)	500KHz)		
Low	5745	3.90	2.75	2.80	8.09	28.40	-20.31	
Mid	5785	3.38	2.50	2.86	7.83	28.40	-20.57	
High	5825	3.25	2.49	2.36	7.62	28.40	-20.78	



## MID





## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### **Antenna Gain and Limit**

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		For Power	For PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					500KHz)
Low	5745	2.90	7.60	30.00	28.40
Mid	5785	2.90	7.60	30.00	28.40
High	5825	2.90	7.60	30.00	28.40

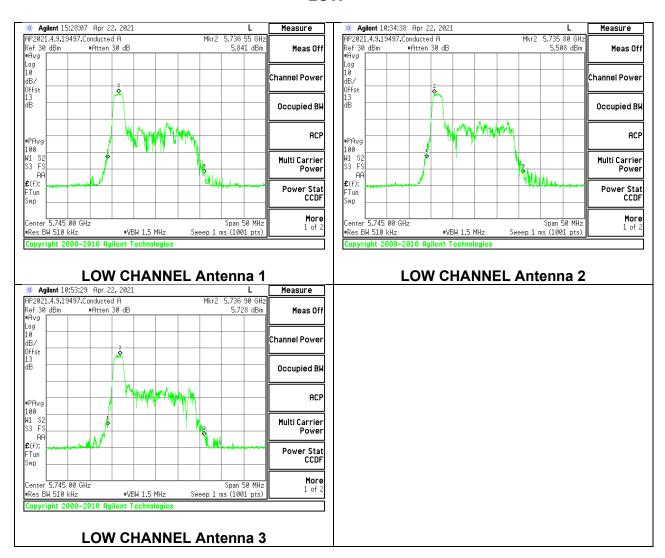
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

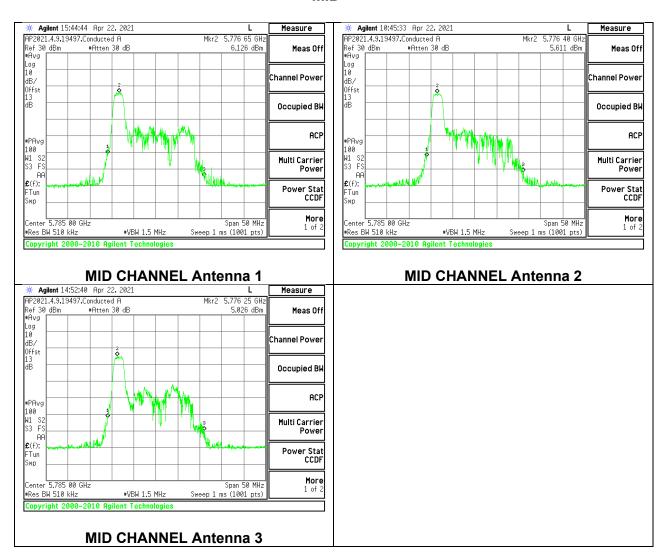
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	6.74	5.77	6.91	11.27	30.00	-18.73
Mid	5785	6.75	5.41	6.93	11.19	30.00	-18.81
High	5825	6.76	5.44	7.11	11.27	30.00	-18.73

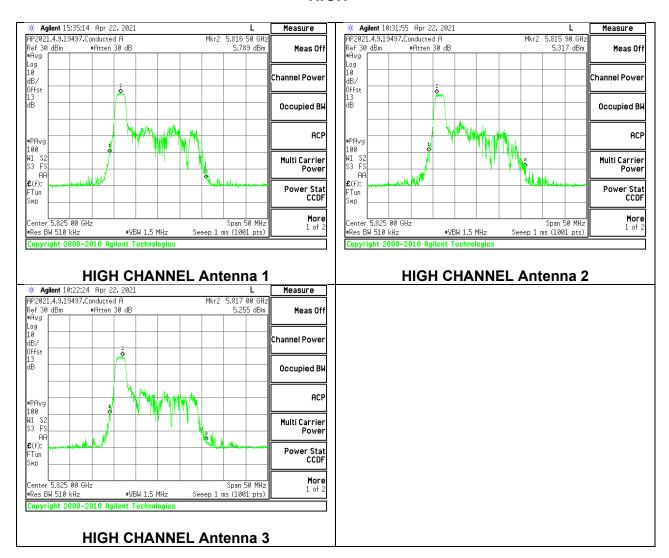
### **PSD Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD			
		Meas	Meas	Meas	Corr'd	Limit	Margin			
		PSD	PSD	PSD	PSD					
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)			
		500KHz)	500KHz)	500KHz)	500KHz)	500KHz)				
Low	5745	5.84	5.51	5.73	10.60	28.40	-17.80			
Mid	5785	6.13	5.61	5.03	10.51	28.40	-17.89			
High	5825	5.79	5.32	5.26	10.36	28.40	-18.04			



### MID





## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### **Antenna Gain and Limit**

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		For Power	For PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					500KHz)
Low	5745	2.90	7.60	30.00	28.40
Mid	5785	2.90	7.60	30.00	28.40
High	5825	2.90	7.60	30.00	28.40

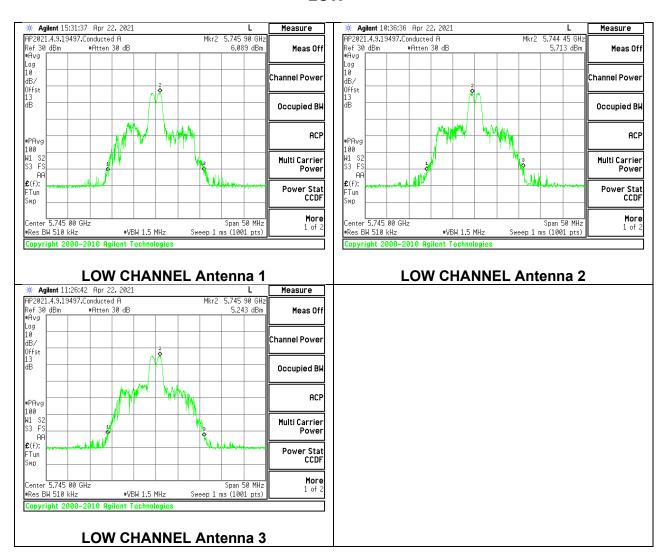
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

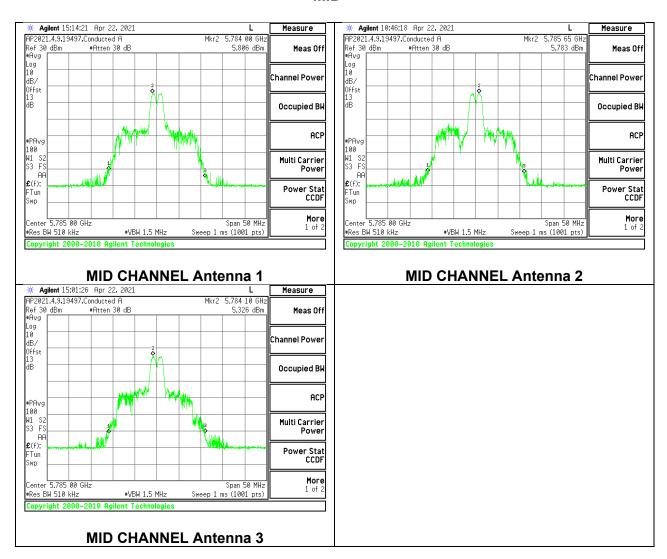
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	7.33	6.59	7.11	11.79	30.00	-18.21
Mid	5785	7.34	5.51	7.39	11.60	30.00	-18.40
High	5825	7.36	6.17	7.22	11.72	30.00	-18.28

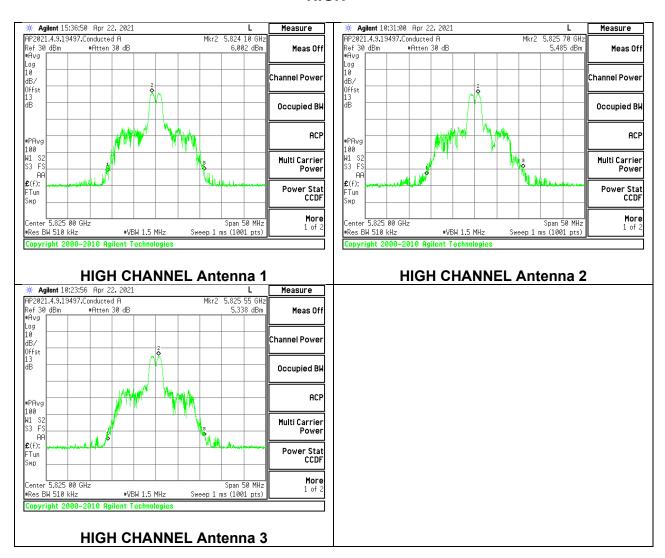
### **PSD Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
Chamilei	riequency						
		Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
		500KHz)	500KHz)	500KHz)	500KHz)	500KHz)	
Low	5745	6.09	5.71	5.24	10.60	28.40	-17.80
Mid	5785	5.81	5.78	5.33	10.55	28.40	-17.85
High	5825	6.00	5.49	5.34	10.52	28.40	-17.88



### MID





## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	GA 12485
Test Date:	4/29/2021

#### **Antenna Gain and Limit**

Channel	Frequency	Directional	Directional	Power	PSD
		Gain	Gain	Limit	Limit
		For Power	For PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					500KHz)
Low	5745	2.90	7.60	30.00	28.40
Mid	5785	2.90	7.60	30.00	28.40
High	5825	2.90	7.60	30.00	28.40

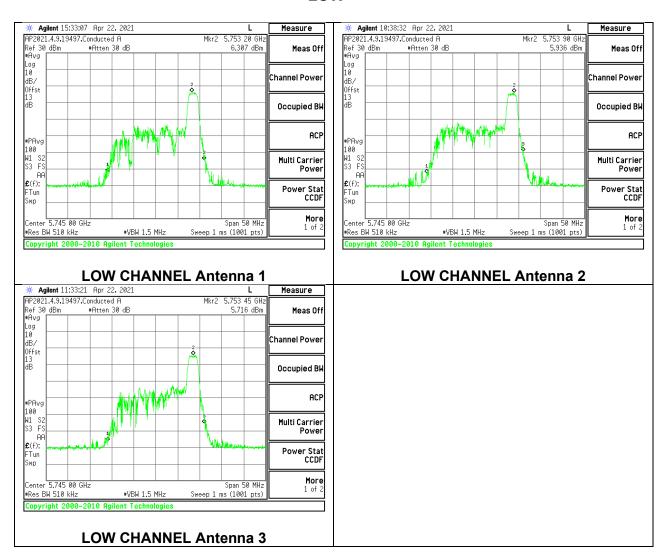
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

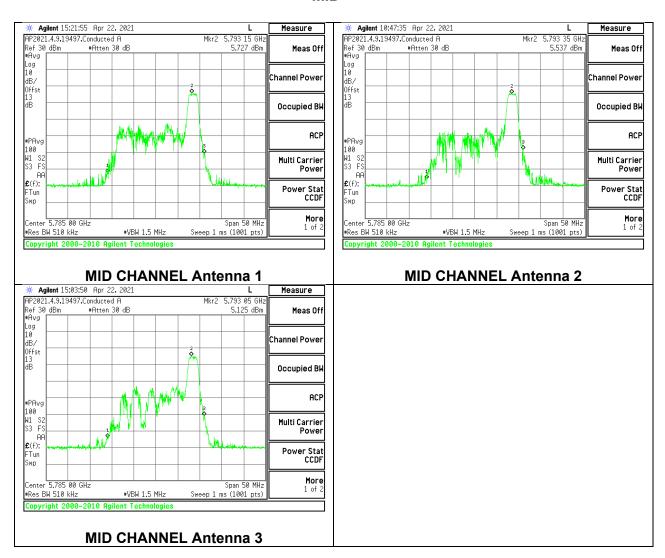
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5745	6.87	5.74	6.91	11.31	30.00	-18.69
Mid	5785	6.88	5.66	6.75	11.23	30.00	-18.77
High	5825	6.91	5.62	7.03	11.34	30.00	-18.66

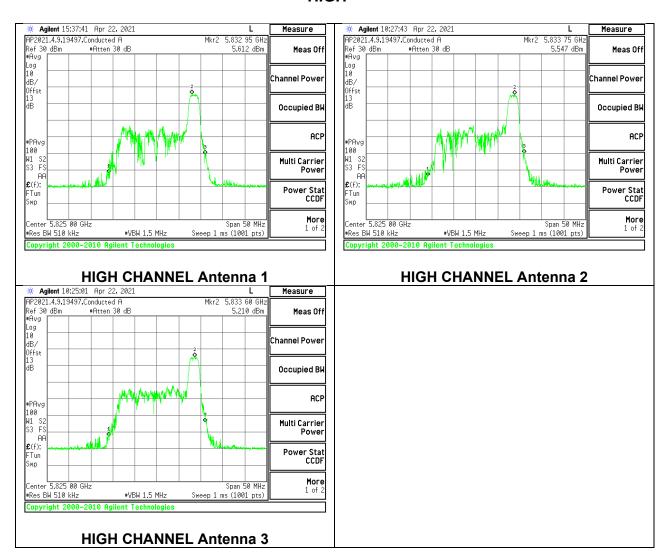
#### **PSD Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD
	. ,	Meas	Meas	Meas	Corr'd	Limit	Margin
		PSD	PSD	PSD	PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)
	` ,	500KHz)	500KHz)	500KHz)	500KHz)	500KHz)	, ,
Low	5745	6.31	5.94	5.72	10.89	28.40	-17.51
Mid	5785	5.73	5.54	5.13	10.37	28.40	-18.03
High	5825	5.61	5.55	5.21	10.36	28.40	-18.04



### MID





# 9.4.11. 802.11ax HE40 MODE 3TX IN THE 5.8GHz BAND (FCC)

## 3TX Antenna 1 + Antenna 2 + Antenna 3 CDD OFDMA MODE: 484-Tones, RU Index 65

Test Engineer:	GA 12485
Test Date:	4/29/2021

### **Antenna Gain and Limit**

Channel	Frequency	Uncorrelated	Correlated	Power	PSD
		Gain	Gain	Limit	Limit
		For Power	For PSD		
	(MHz)	(dBi)	(dBi)	(dBm)	(dBm/
					500KHz)
Low	5755	2.90	7.60	30.00	28.40
High	5795	2.90	7.60	30.00	28.40

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD
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### **Output Power Results**

Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	Power	Power
		Meas	Meas	Meas	Corr'd	Limit	Margin
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low	5755	17.44	17.11	17.58	22.15	30.00	-7.85
Low	3733	17. <del>44</del>	17.11	17.50	22.10	50.00	7.00

#### **PSD Results**

	. OD NOOMO								
Channel	Frequency	Antenna 1	Antenna 2	Antenna 3	Total	PSD	PSD		
		Meas	Meas	Meas	Corr'd	Limit	Margin		
		PSD	PSD	PSD	PSD				
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	(dBm/	(dB)		
		500KHz)	500KHz)	500KHz)	500KHz)	500KHz)			
Low	5755	-1.17	0.52	0.32	4.85	28.40	-23.55		
High	5795	-1.21	0.31	0.19	4.72	28.40	-23.68		