

**DIRECTIONAL ANTENNA GAIN**

Tx chains are uncorrelated for power and correlated for PSD. The directional gains are as follows:

<b>U-NII Band</b>	<b>Ant 1 Antenna Gain (dBi)</b>	<b>Ant 2 Antenna Gain (dBi)</b>	<b>Uncorrelated Chains Directional Gain (dBi)</b>	<b>Correlated Chains Directional Gain (dBi)</b>
UNII-1	3.30	2.50	2.92	5.92
UNII-2A	3.30	2.90	3.10	6.11
UNII-2C	3.50	4.50	4.03	7.02
UNII-3	3.90	4.50	4.21	7.22

**RESULT**

### 9.5.1. 802.11ax HE20 MODE 1TX IN THE 5.2GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	3.30	24.00	11.00
Mid	5200	3.30	24.00	11.00
High	5240	3.30	24.00	11.00

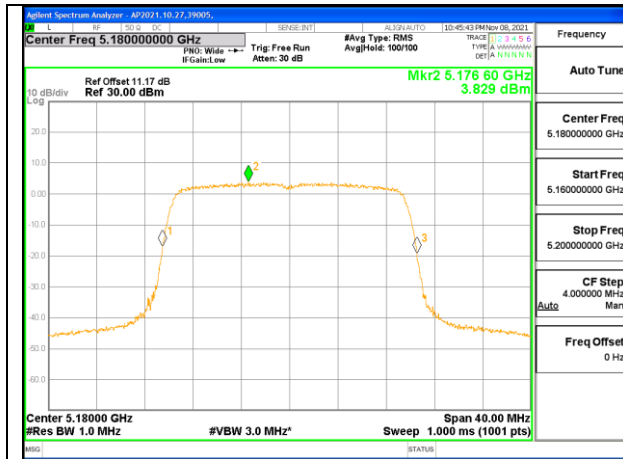
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

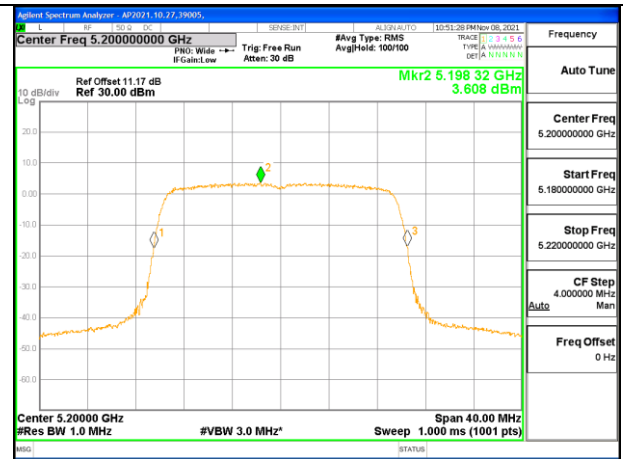
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.55	14.55	24.00	-9.45
Mid	5200	14.60	14.60	24.00	-9.40
High	5240	14.58	14.58	24.00	-9.42

#### PSD Results

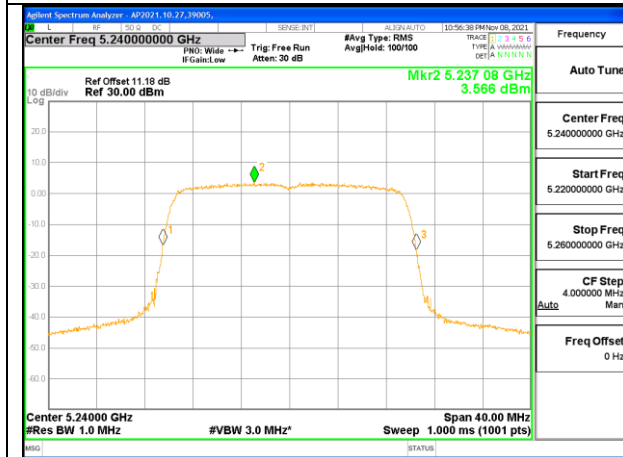
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.83	3.83	11.00	-7.17
Mid	5200	3.61	3.61	11.00	-7.39
High	5240	3.57	3.57	11.00	-7.43



**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	2.50	24.00	11.00
Mid	5200	2.50	24.00	11.00
High	5240	2.50	24.00	11.00

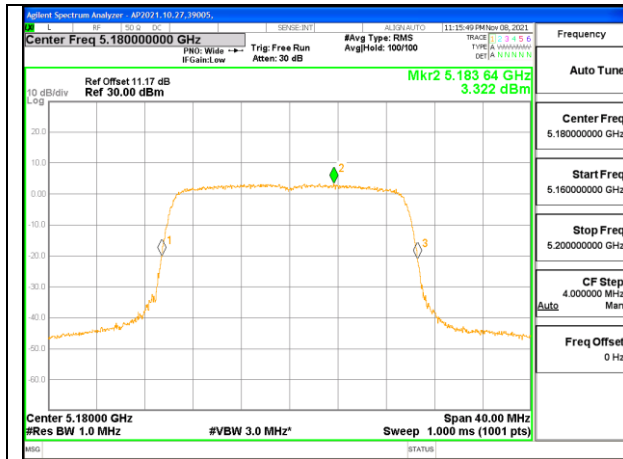
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

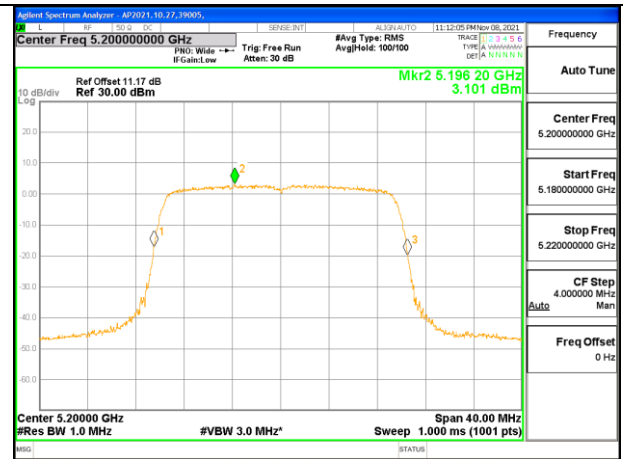
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.01	14.01	24.00	-9.99
Mid	5200	13.91	13.91	24.00	-10.09
High	5240	13.81	13.81	24.00	-10.19

**PSD Results**

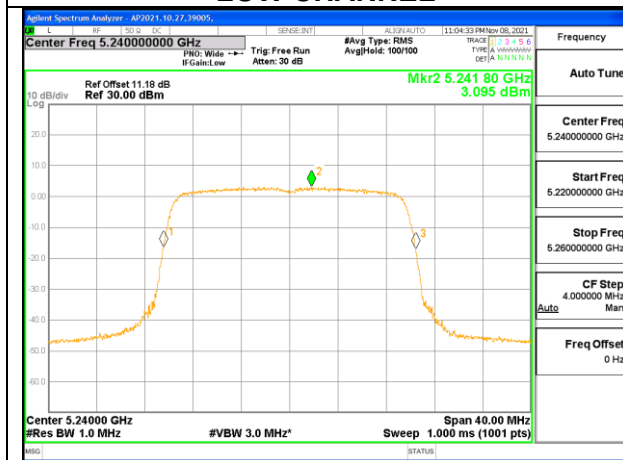
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.322	3.32	11.00	-7.68
Mid	5200	3.101	3.10	11.00	-7.90
High	5240	3.095	3.10	11.00	-7.91



**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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### 9.5.2. 802.11ax HE40 MODE 1TX IN THE 5.2GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

#### Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	3.30	24.00	11.00
High	5230	3.30	24.00	11.00

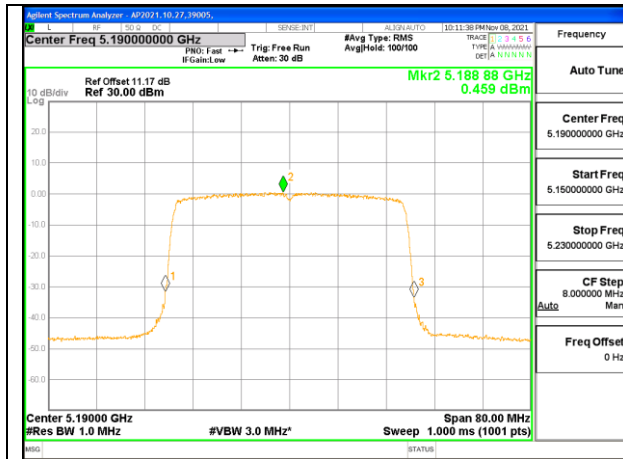
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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#### Output Power Results

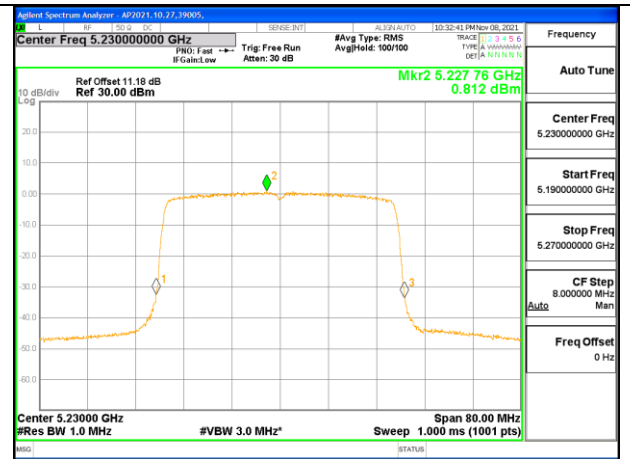
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.52	14.52	24.00	-9.48
High	5230	14.50	14.50	24.00	-9.50

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.459	0.46	11.00	-10.54
High	5230	0.812	0.81	11.00	-10.19



LOW CHANNEL



HIGH CHANNEL

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	2.50	24.00	11.00
High	5230	2.50	24.00	11.00

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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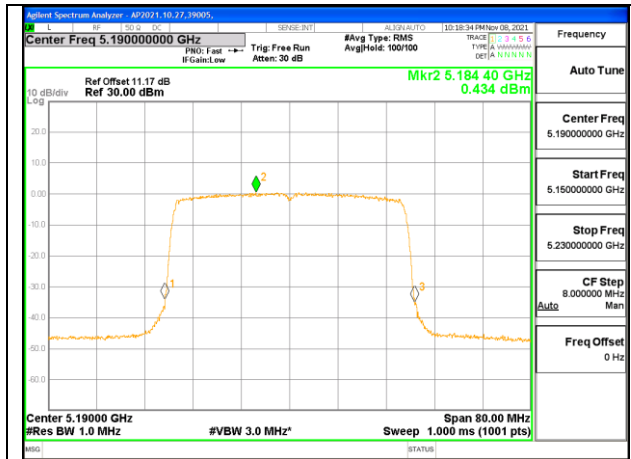
**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.00	14.00	24.00	-10.00
High	5230	13.86	13.86	24.00	-10.14

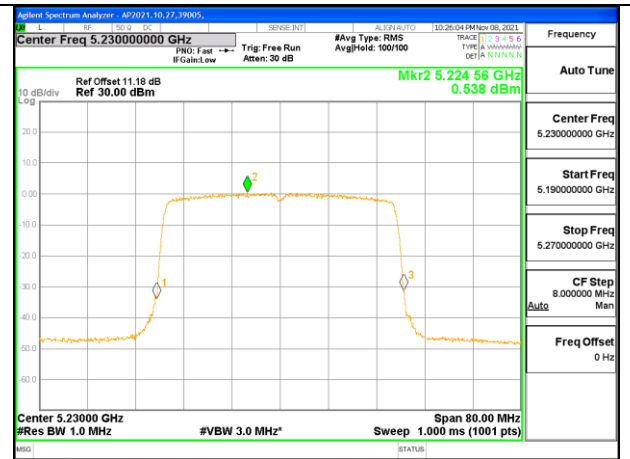
**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.434	0.43	11.00	-10.57
High	5230	0.538	0.54	11.00	-10.46





**LOW CHANNEL**



**HIGH CHANNEL**

### 9.5.3. 802.11ax HE80 MODE 1TX IN THE 5.2GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	3.30	24.00	11.00

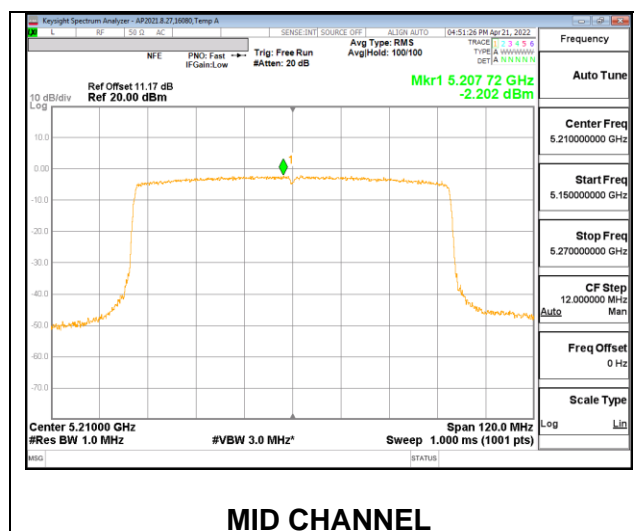
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	14.63	14.63	24.00	-9.37

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-2.20	-2.20	11.00	-13.20



MID CHANNEL

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	2.50	24.00	11.00

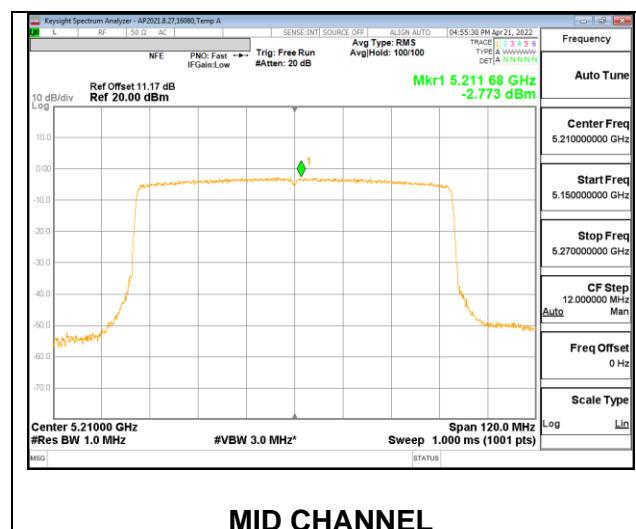
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.88	13.88	24.00	-10.12

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-2.77	-2.77	11.00	-13.77



### 9.5.4. 802.11ax HE20 MODE 1TX IN THE 5.2GHz BAND (IC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	18.900	3.30	22.76	19.46	10.00	6.70
Mid	5200	18.855	3.30	22.75	19.45	10.00	6.70
High	5240	18.941	3.30	22.77	19.47	10.00	6.70

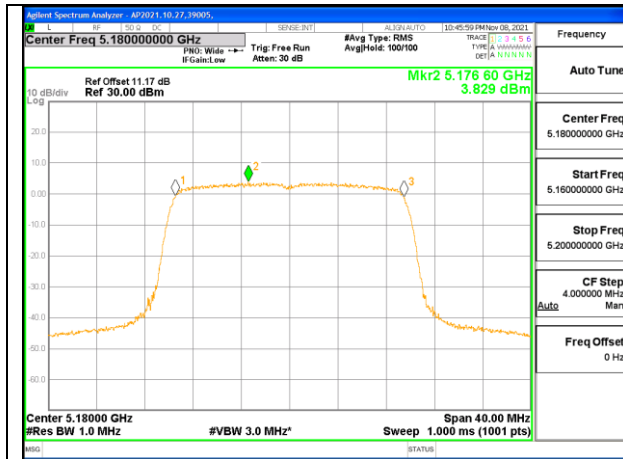
<b>Duty Cycle CF (dB)</b>	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

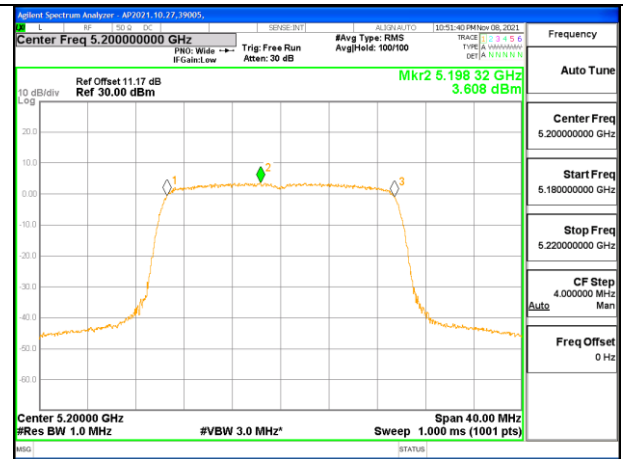
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.55	14.55	19.46	-4.91
Mid	5200	14.60	14.60	19.45	-4.85
High	5240	14.58	14.58	19.47	-4.89

#### PSD Results

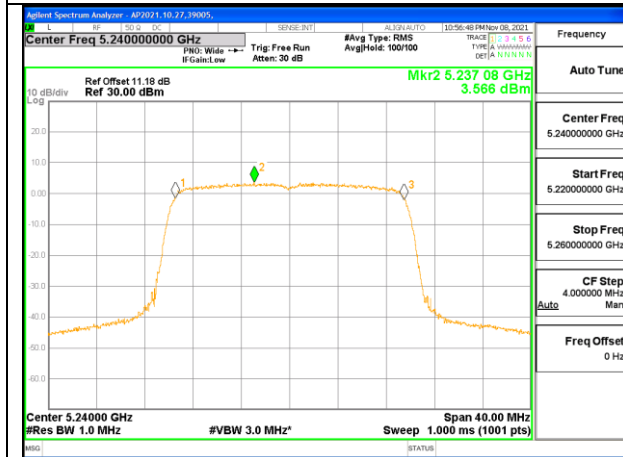
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.829	3.83	6.70	-2.87
Mid	5200	3.608	3.61	6.70	-3.09
High	5240	3.566	3.57	6.70	-3.13



**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	18.881	2.50	22.76	20.26	10.00	7.50
Mid	5200	18.868	2.50	22.76	20.26	10.00	7.50
High	5240	18.917	2.50	22.77	20.27	10.00	7.50

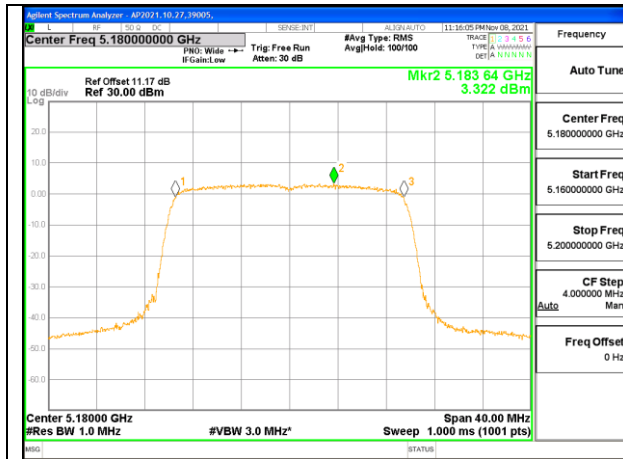
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

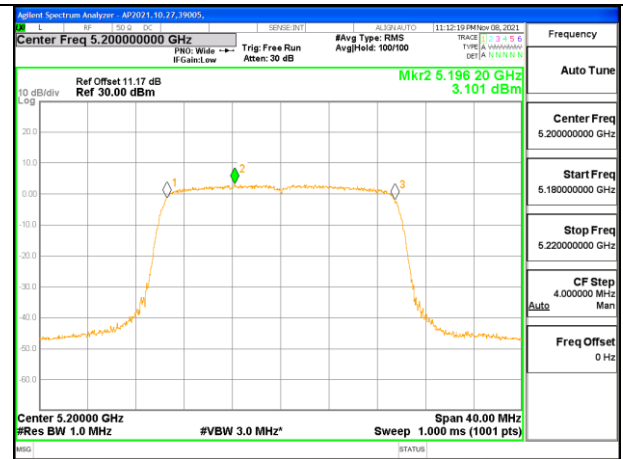
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.01	14.01	20.26	-6.25
Mid	5200	13.91	13.91	20.26	-6.35
High	5240	13.81	13.81	20.27	-6.46

**PSD Results**

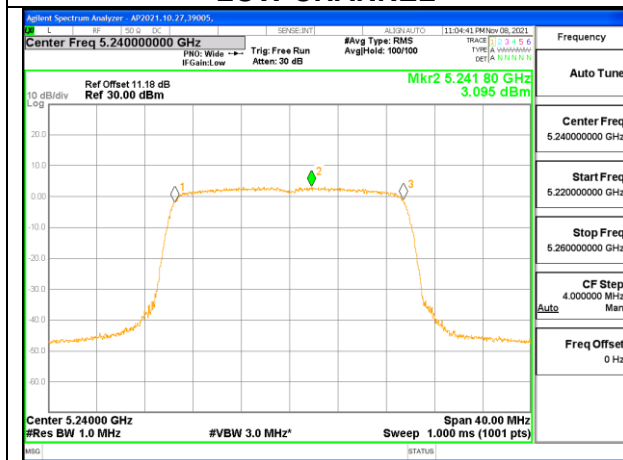
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.322	3.32	7.50	-4.18
Mid	5200	3.101	3.10	7.50	-4.40
High	5240	3.095	3.10	7.50	-4.41



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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### 9.5.5. 802.11ax HE40 MODE 1TX IN THE 5.2GHz BAND (IC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	37.684	3.30	23.00	19.70	10.00	6.70
High	5230	37.661	3.30	23.00	19.70	10.00	6.70

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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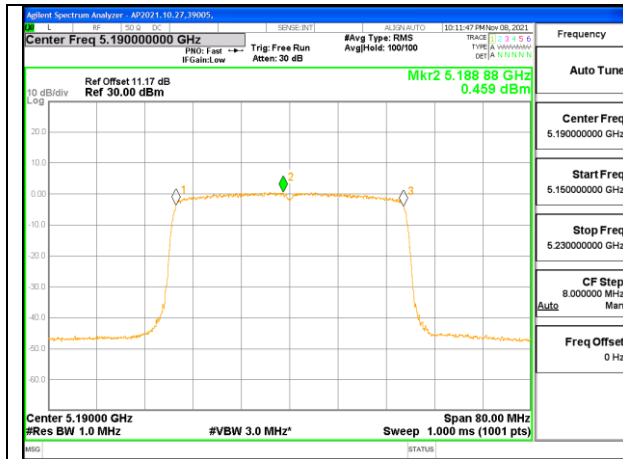
#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.52	14.52	19.70	-5.18
High	5230	14.50	14.50	19.70	-5.20

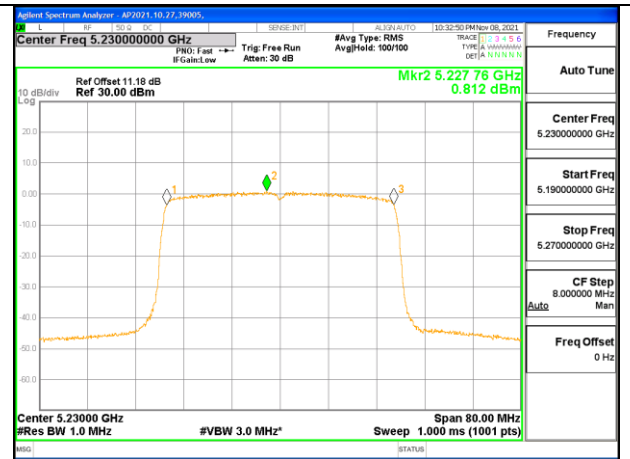
#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.459	0.46	6.70	-6.24
High	5230	0.812	0.81	6.70	-5.89





**LOW CHANNEL**



**HIGH CHANNEL**

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	37.615	2.50	23.00	20.50	10.00	7.50
High	5230	37.731	2.50	23.00	20.50	10.00	7.50

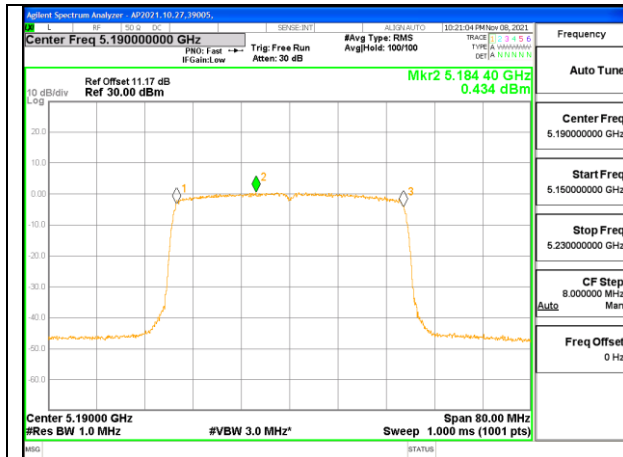
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

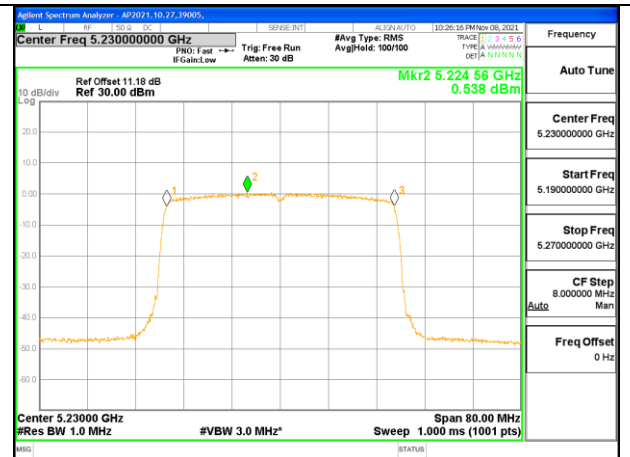
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.00	14.00	20.50	-6.50
High	5230	13.86	13.86	20.50	-6.64

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.434	0.43	7.50	-7.07
High	5230	0.538	0.54	7.50	-6.96



LOW CHANNEL



HIGH CHANNEL

### 9.5.6. 802.11ax HE80 MODE 1TX IN THE 5.2GHz BAND (IC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Mid	5210	77.248	3.30	23.00	19.70	10.00	6.70

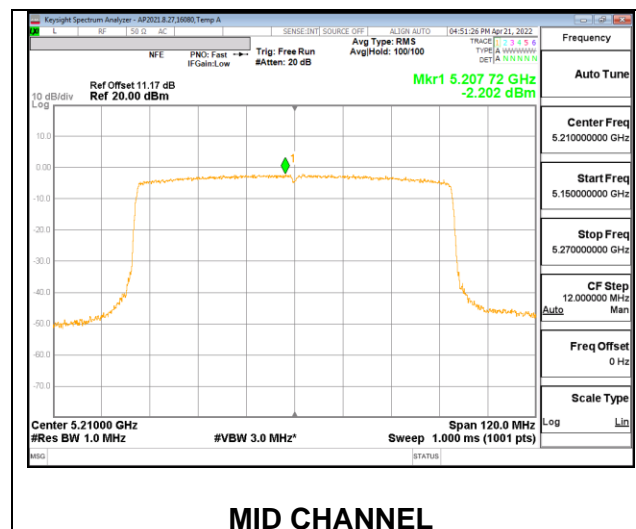
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	14.63	14.63	19.70	-5.07

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5210	-2.202	-2.20	6.70	-8.90



**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	77.145	2.50	23.00	20.50	10.00	7.50

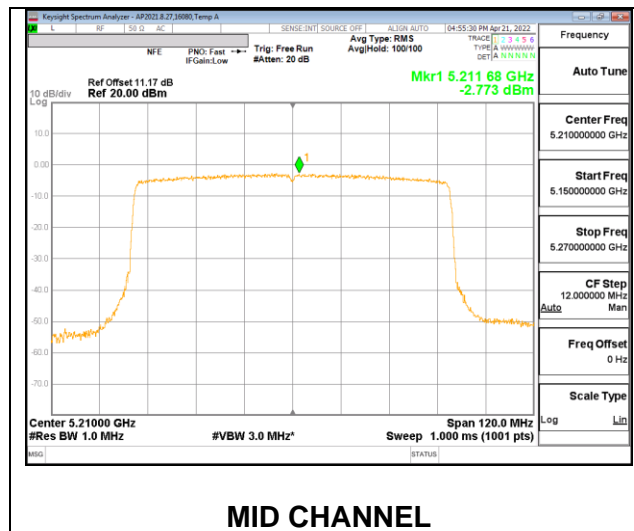
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.880	13.88	20.50	-6.62

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-2.773	-2.77	7.50	-10.27



### 9.5.7. 802.11ax HE20 MODE 1TX IN THE 5.3GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	21.00	3.30	24.00	11.00
Mid	5300	20.96	3.30	24.00	11.00
High	5320	21.00	3.30	24.00	11.00

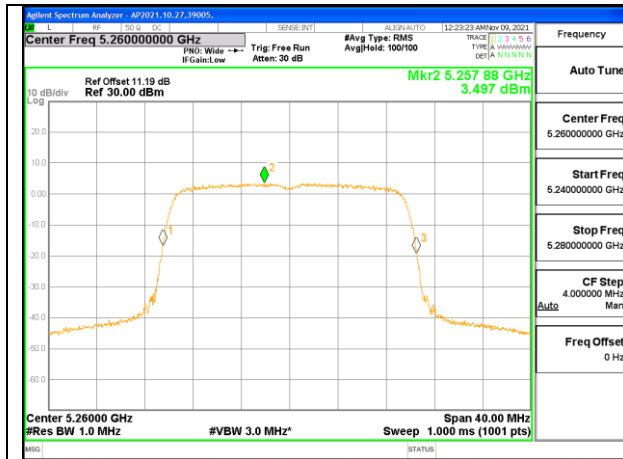
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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#### Output Power Results

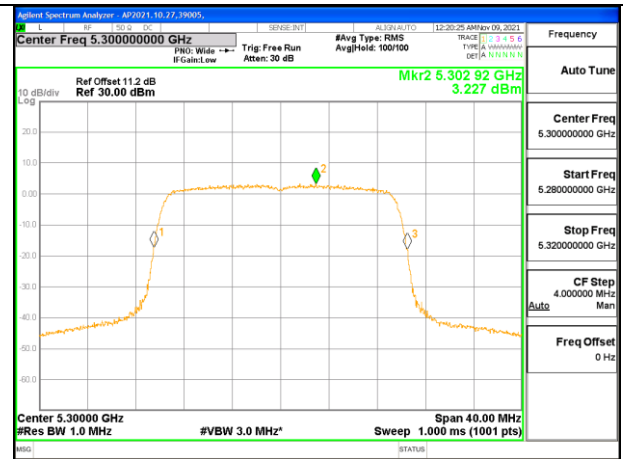
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.92	14.92	24.00	-9.08
Mid	5300	14.52	14.52	24.00	-9.48
High	5320	14.78	14.78	24.00	-9.22

#### PSD Results

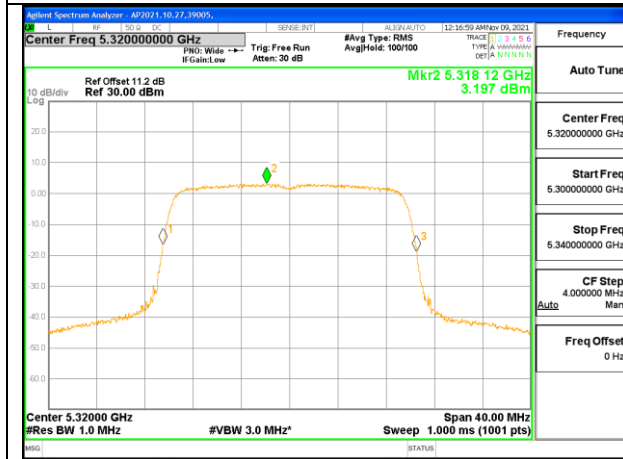
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.497	3.50	11.00	-7.50
Mid	5300	3.227	3.23	11.00	-7.77
High	5320	3.197	3.20	11.00	-7.80



**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	20.88	2.90	24.00	11.00
Mid	5300	21.04	2.90	24.00	11.00
High	5320	21.00	2.90	24.00	11.00

<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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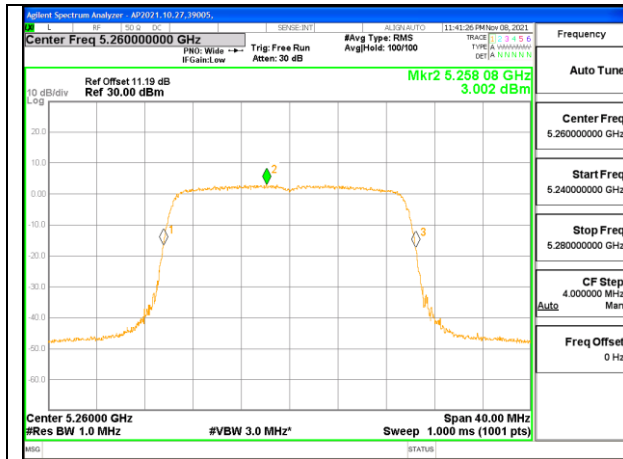
**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.05	14.05	24.00	-9.95
Mid	5300	14.04	14.04	24.00	-9.96
High	5320	13.85	13.85	24.00	-10.15

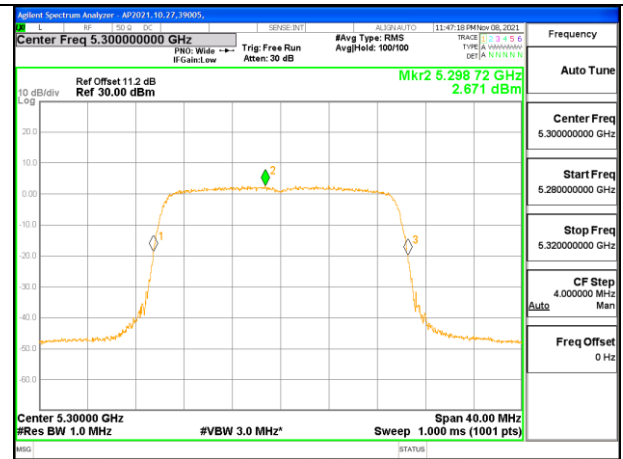
**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.002	3.00	11.00	-8.00
Mid	5300	2.671	2.67	11.00	-8.33
High	5320	2.868	2.87	11.00	-8.13

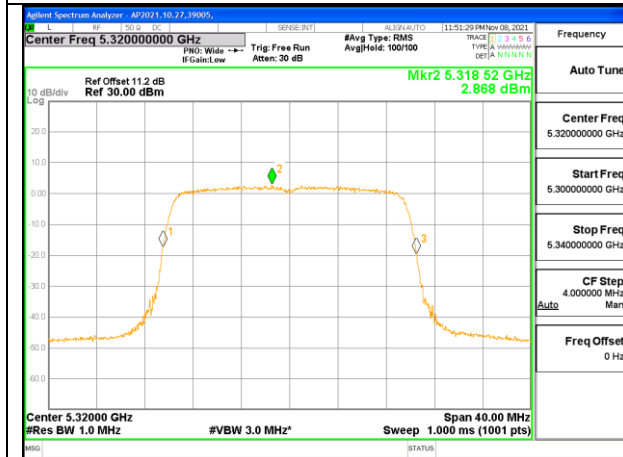




**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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### 9.5.8. 802.11ax HE40 MODE 1TX IN THE 5.3GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	41.12	3.30	24.00	11.00
High	5310	41.36	3.30	24.00	11.00

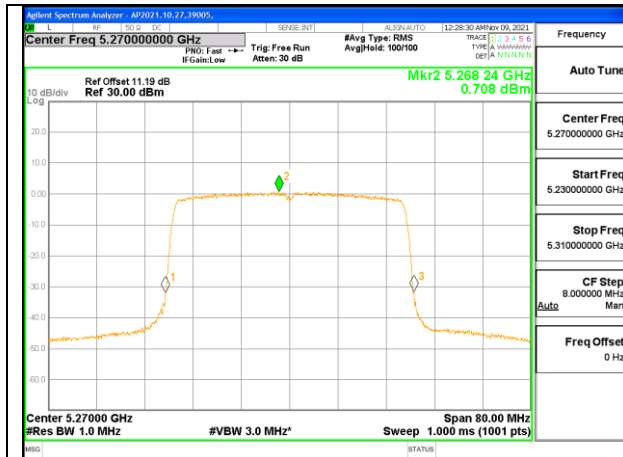
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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#### Output Power Results

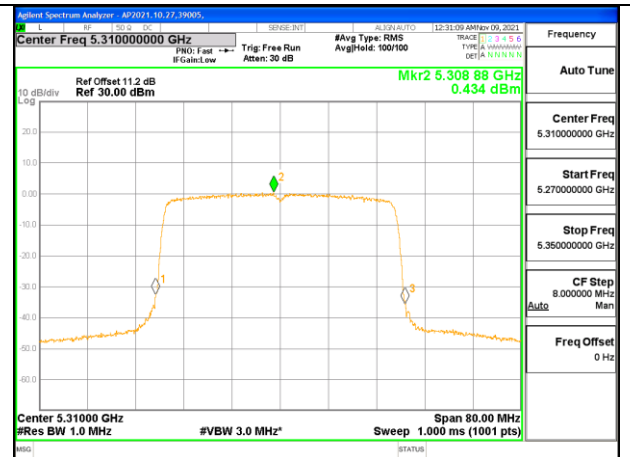
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	14.80	14.80	24.00	-9.20
High	5310	14.60	14.60	24.00	-9.40

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	0.708	0.71	11.00	-10.29
High	5310	0.434	0.43	11.00	-10.57



**LOW CHANNEL**



**HIGH CHANNEL**

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	41.44	2.90	24.00	11.00
High	5310	41.20	2.90	24.00	11.00

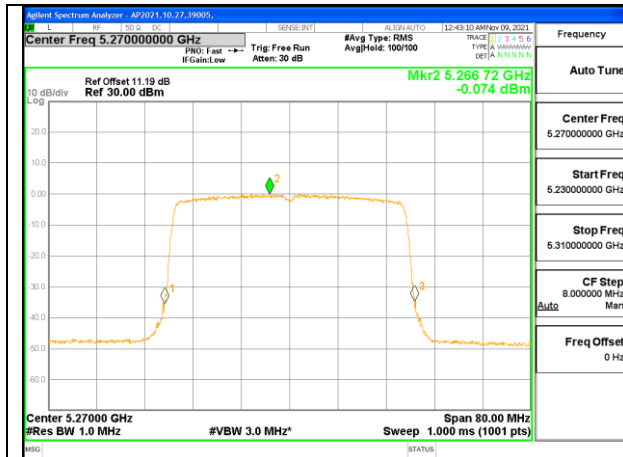
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

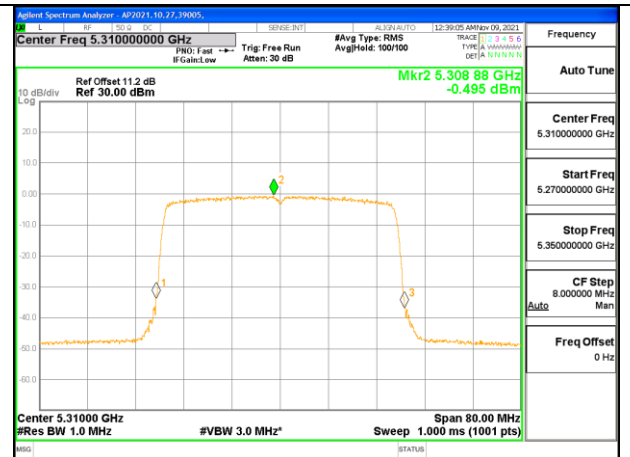
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	14.03	14.03	24.00	-9.97
High	5310	13.95	13.95	24.00	-10.05

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-0.074	-0.07	11.00	-11.07
High	5310	-0.495	-0.50	11.00	-11.50



LOW CHANNEL



HIGH CHANNEL

### 9.5.9. 802.11ax HE80 MODE 1TX IN THE 5.3GHz BAND (FCC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.40	3.30	24.00	11.00

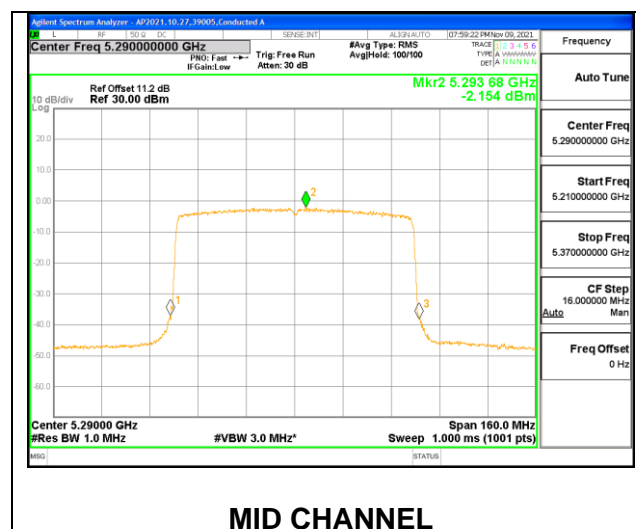
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.70	14.70	24.00	-9.30

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-2.154	-2.15	11.00	-13.15



**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.72	2.90	24.00	11.00

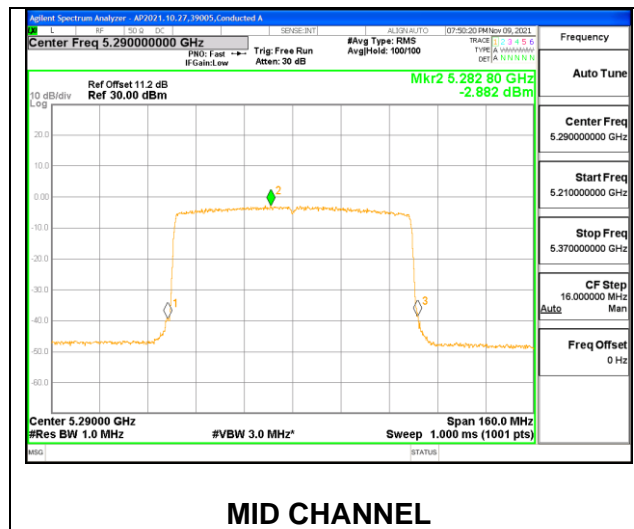
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.00	14.00	24.00	-10.00

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-2.882	-2.88	11.00	-13.88



### 9.5.10. 802.11ax HE20 MODE 1TX IN THE 5.3GHz BAND (IC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	18.855	3.30	23.75	11.00
Mid	5300	18.950	3.30	23.78	11.00
High	5320	18.884	3.30	23.76	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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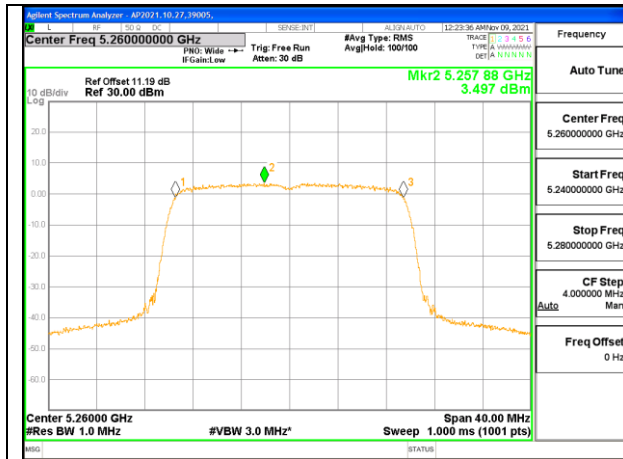
#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.92	14.92	23.75	-8.83
Mid	5300	14.52	14.52	23.78	-9.26
High	5320	14.78	14.78	23.76	-8.98

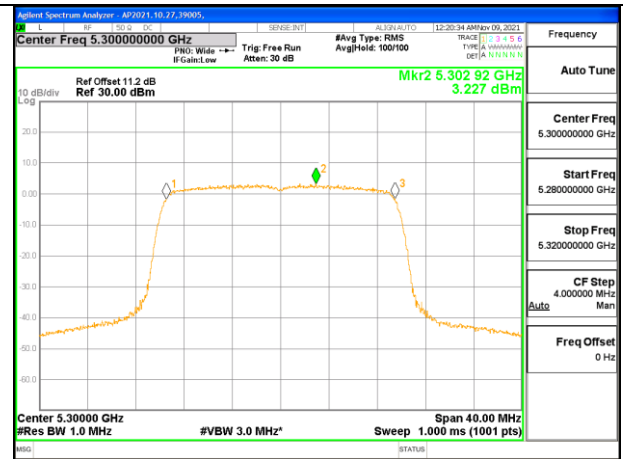
#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.497	3.50	11.00	-7.50
Mid	5300	3.227	3.23	11.00	-7.77
High	5320	3.197	3.20	11.00	-7.80

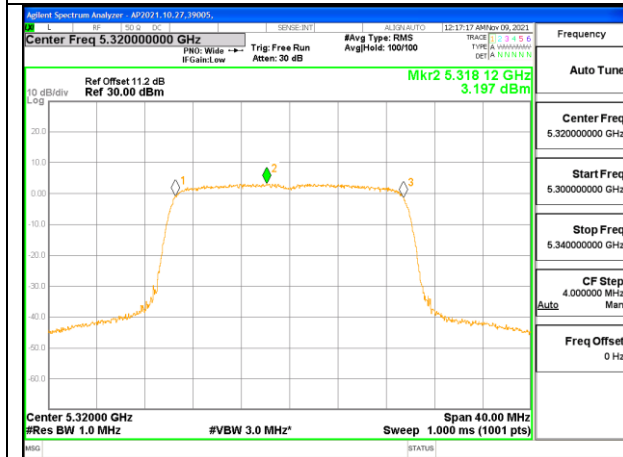




**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	18.908	2.90	23.77	11.00
Mid	5300	18.941	2.90	23.77	11.00
High	5320	18.898	2.90	23.76	11.00

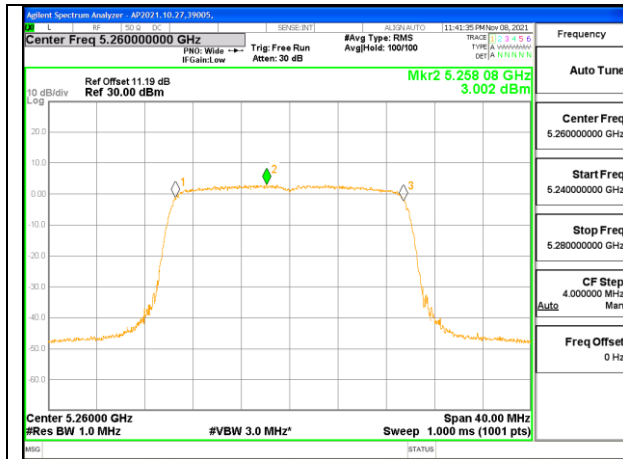
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

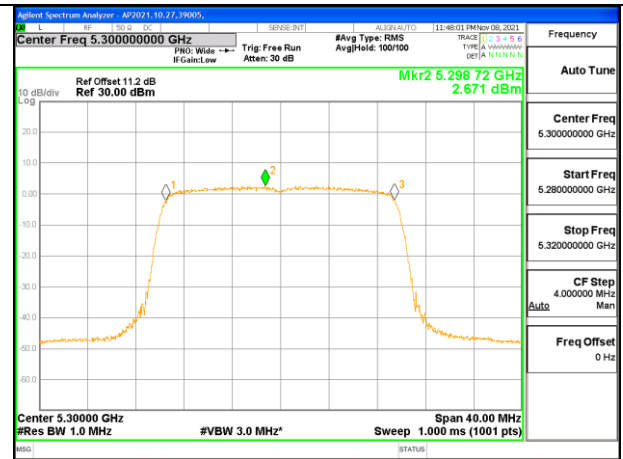
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.05	14.05	23.77	-9.72
Mid	5300	14.04	14.04	23.77	-9.73
High	5320	13.85	13.85	23.76	-9.91

**PSD Results**

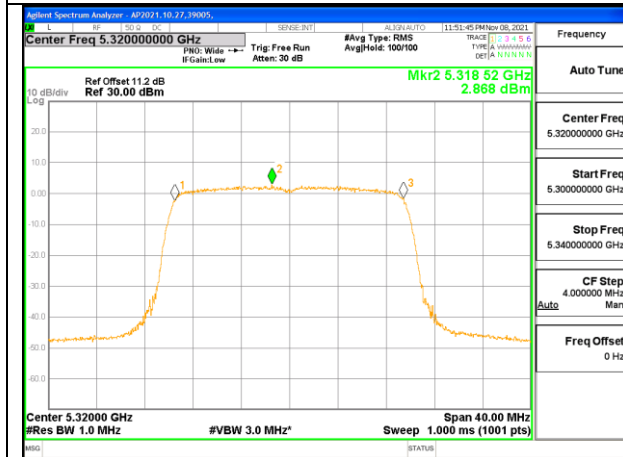
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.002	3.00	11.00	-8.00
Mid	5300	2.671	2.67	11.00	-8.33
High	5320	2.868	2.87	11.00	-8.13



**LOW CHANNEL**



**MID CHANNEL**



**HIGH CHANNEL**

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**9.5.11. 802.11ax HE40 MODE 1TX IN THE 5.3GHz BAND (IC)**

**1TX Antenna 1 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	37.681	3.30	24.00	11.00
High	5310	37.731	3.30	24.00	11.00

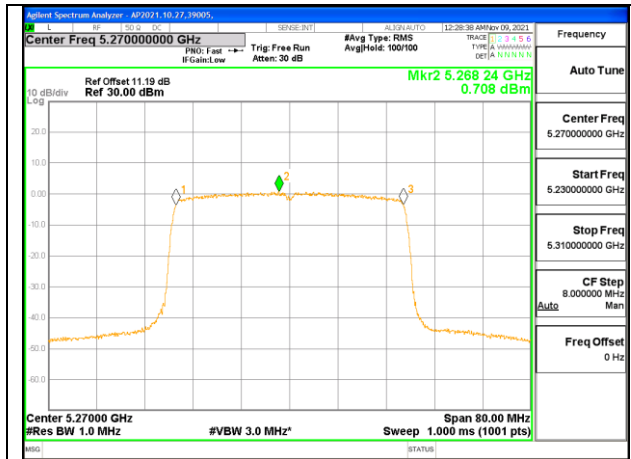
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

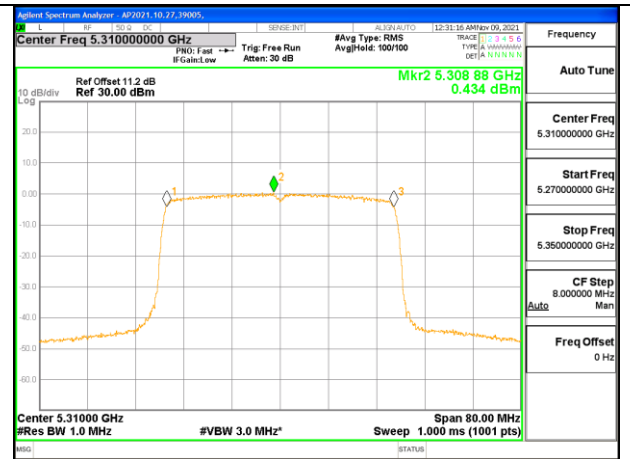
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	14.80	14.80	24.00	-9.20
High	5310	14.60	14.60	24.00	-9.40

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	0.708	0.71	11.00	-10.29
High	5310	0.434	0.43	11.00	-10.57



LOW CHANNEL



HIGH CHANNEL

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	37.676	2.90	24.00	11.00
High	5310	37.735	2.90	24.00	11.00

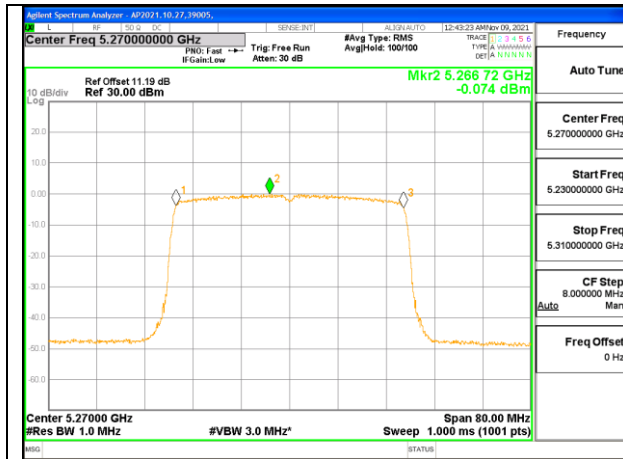
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

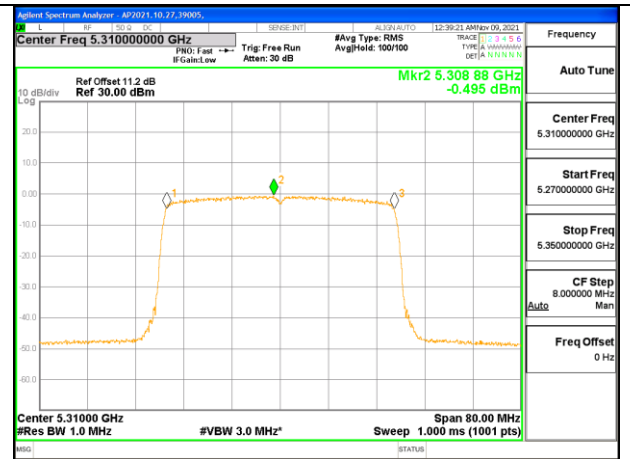
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	14.03	14.03	24.00	-9.97
High	5310	13.95	13.95	24.00	-10.05

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-0.074	-0.07	11.00	-11.07
High	5310	-0.495	-0.50	11.00	-11.50



LOW CHANNEL



HIGH CHANNEL

### 9.5.12. 802.11ax HE80 MODE 1TX IN THE 5.3GHz BAND (IC)

#### 1TX Antenna 1 OFDM MODE: SU, Single User

Test Engineer:	16080
Test Date:	2/9/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	77.208	3.30	24.00	11.00

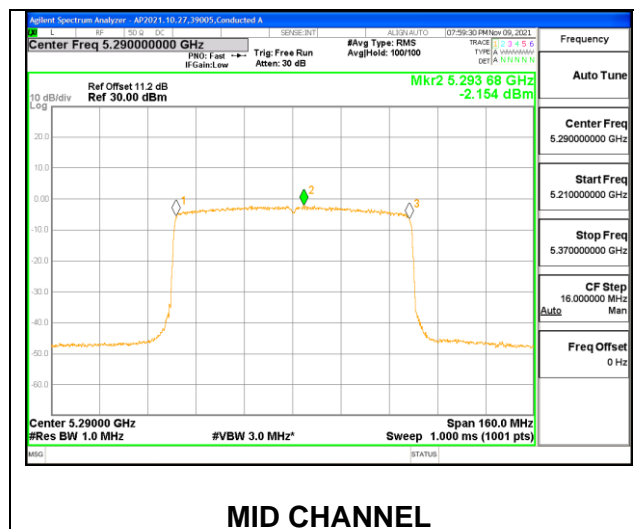
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.70	14.70	24.00	-9.30

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-2.154	-2.15	11.00	-13.15





**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	77.167	2.90	24.00	11.00

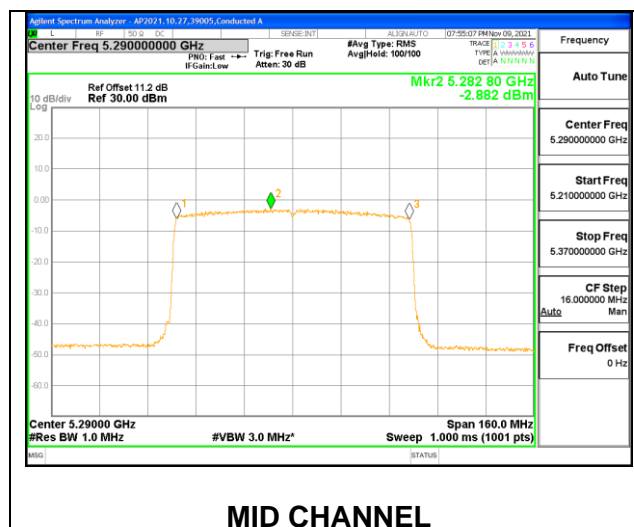
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.00	14.00	24.00	-10.00

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-2.282	-2.28	11.00	-13.28



### 9.5.13. 802.11ax HE160 MODE 1TX IN THE 5.2GHz & 5.3GHz BAND (FCC)

**1TX Antenna 1 OFDM MODE: SU, Single User**

Test Engineer:	16080
Test Date:	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	166.08	3.30	3.30	24.00	11.00

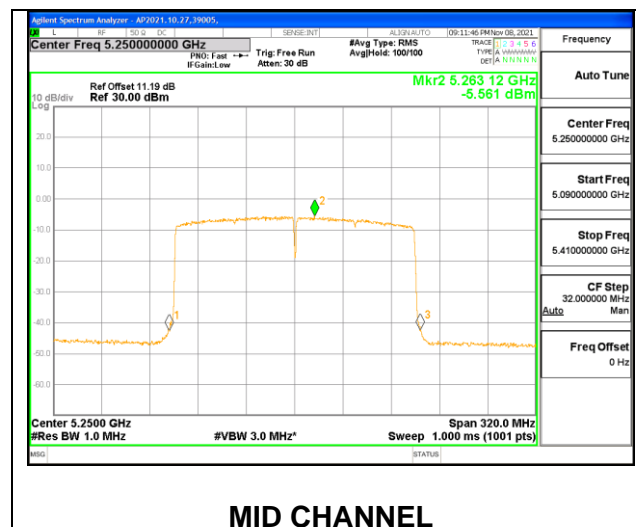
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	14.66	14.66	24.00	-9.34

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-5.561	-5.56	11.00	-16.56



**MID CHANNEL**

**1TX Antenna 2 OFDM MODE: SU, Single User**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	166.08	2.50	2.50	24.00	11.00

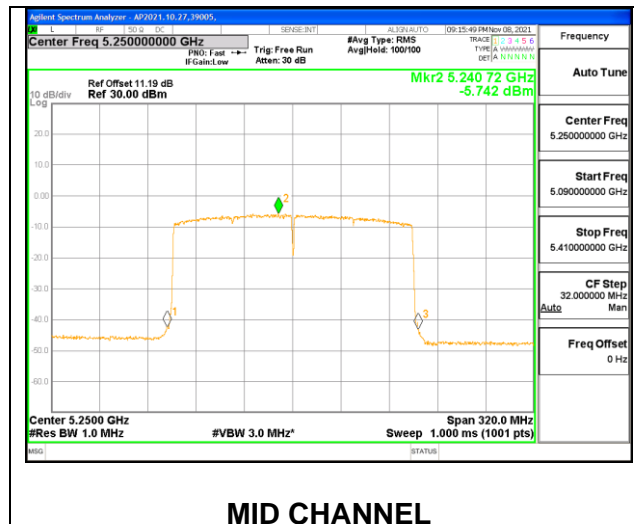
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	13.86	13.86	24.00	-10.14

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-5.742	-5.74	11.00	-16.74



### 9.5.14. 802.11ax HE160 MODE 2TX IN THE 5.2GHz & 5.3GHz BAND (FCC)

**Note for OFDMA** - With a worst case 26dB BW of 20MHz, the FCC Power Limit is 24 dBm. All HE160 power is less than 24dBm therefore since each respective tone is the same power and PSD across bandwidths, the HE160 Power and PSD is representative of HE20/40/80.

#### 2TX Antenna 1 + Antenna 2 CDD OFDM MODE: SU, Single User

Test Engineer:	44352
Test Date:	5/17/2022

#### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	168.96	2.92	5.92	24.00	11.00

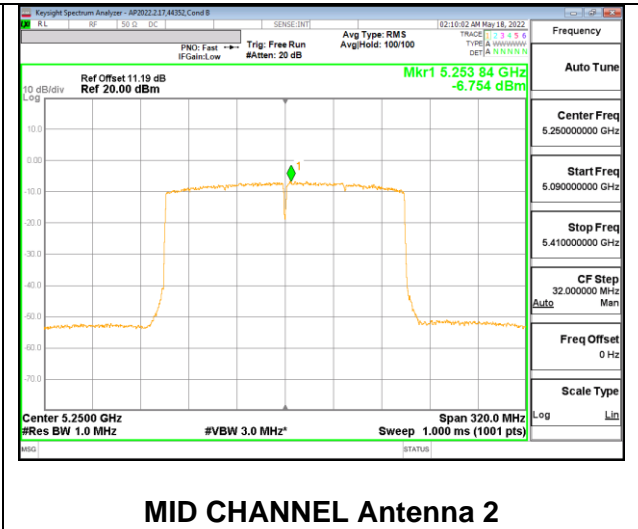
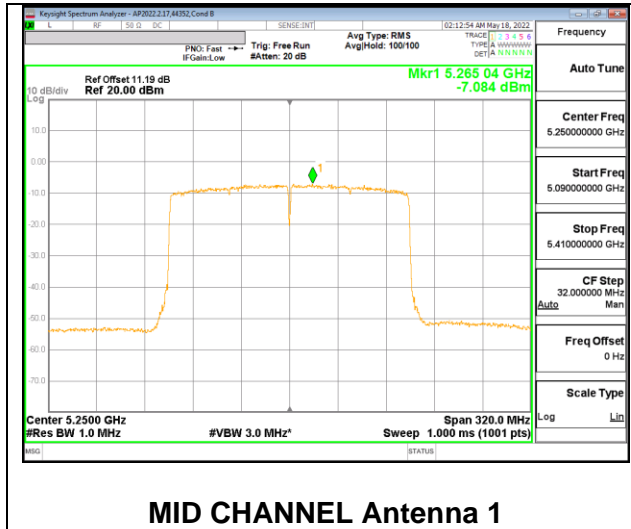
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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#### Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	12.84	13.25	16.06	24.00	-7.94

#### PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-7.084	-6.754	-3.91	11.00	-14.91



**2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 2x 996-Tones, Index 68**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	172.48	2.92	5.92	24.00	11.00

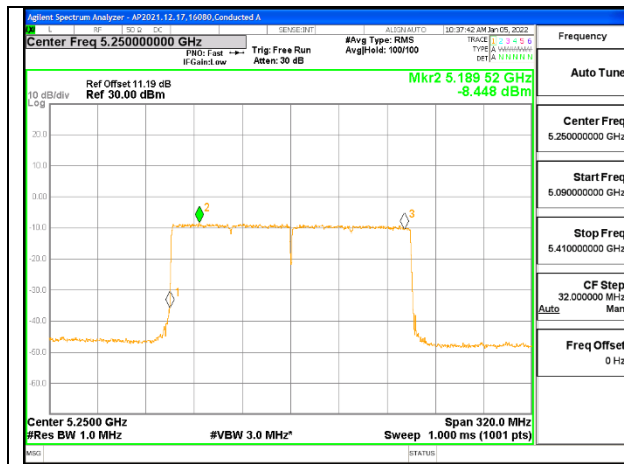
<b>Duty Cycle CF (dB)</b>	0.10	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

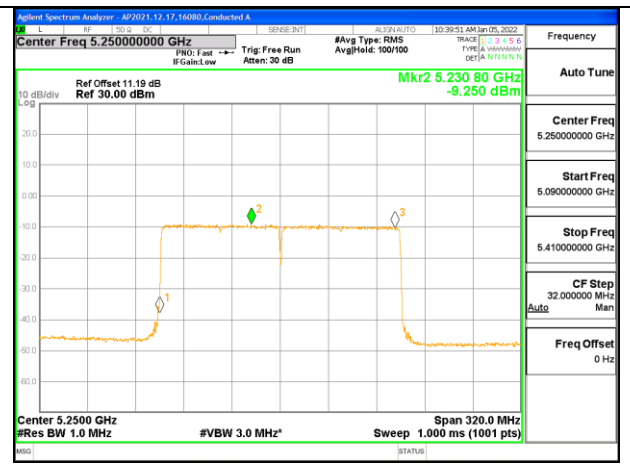
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	11.63	11.12	14.39	24.00	-9.61

**PSD Results**

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-8.448	-9.250	-5.72	11.00	-16.72



**MID CHANNEL Antenna 1**



**MID CHANNEL Antenna 2**

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

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	167.68	2.92	5.92	24.00	11.00

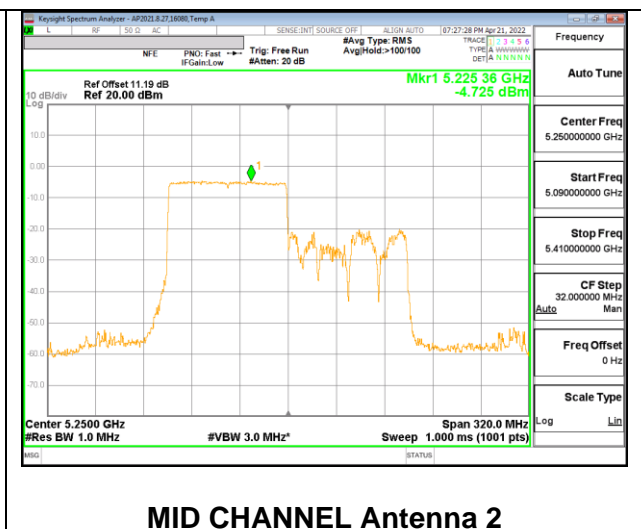
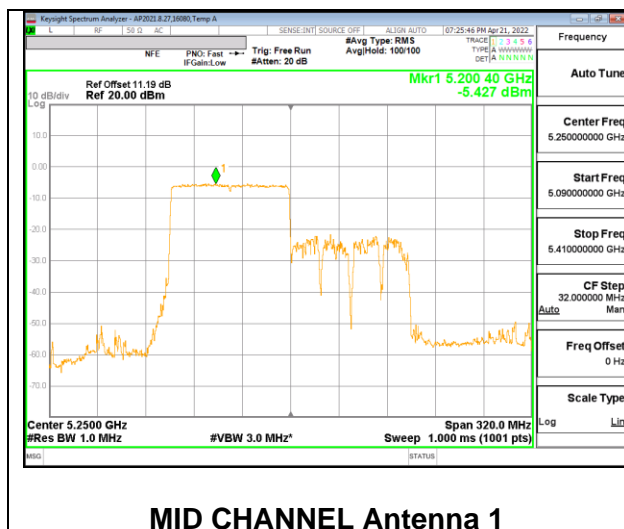
<b>Duty Cycle CF (dB)</b>	0.10	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	12.73	13.72	16.26	24.00	-7.74

**PSD Results**

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-5.427	-4.725	-1.95	11.00	-12.95



**2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 996-Tones, RU Index S67**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	167.36	2.92	5.92	24.00	11.00

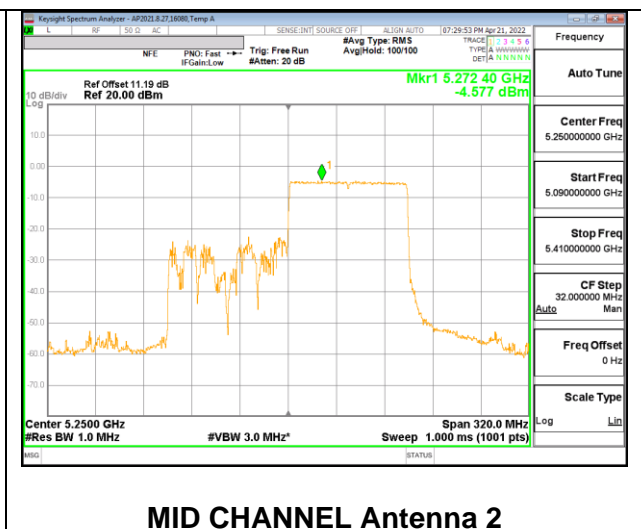
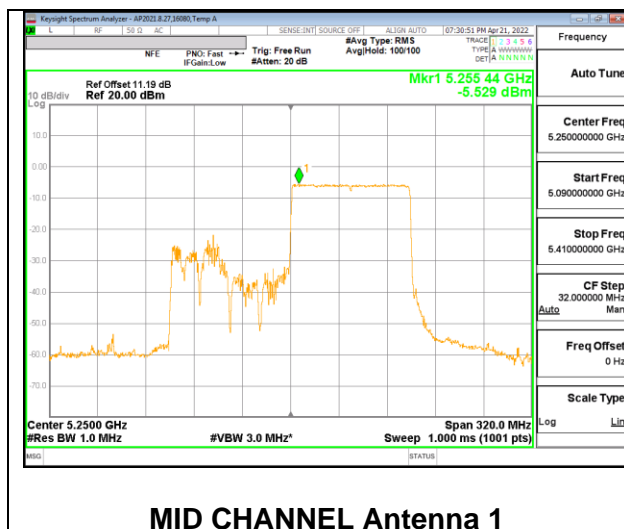
<b>Duty Cycle CF (dB)</b>	0.10	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	12.70	13.64	16.21	24.00	-7.79

**PSD Results**

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	-5.529	-4.577	-1.92	11.00	-12.92





**2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 106-Tones, RU Index 53**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	166.40	2.92	5.92	24.00	11.00

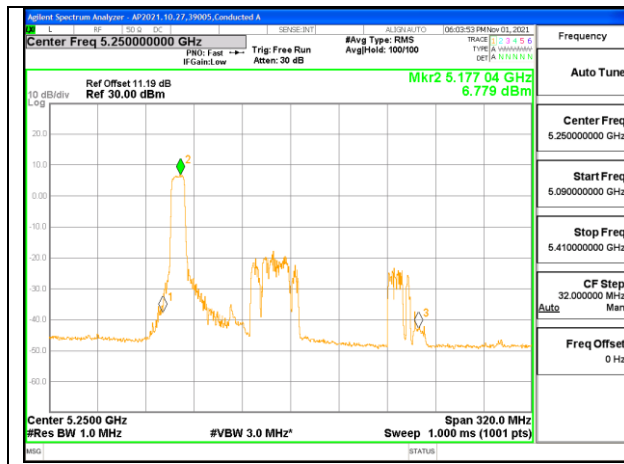
<b>Duty Cycle CF (dB)</b>	0.10	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

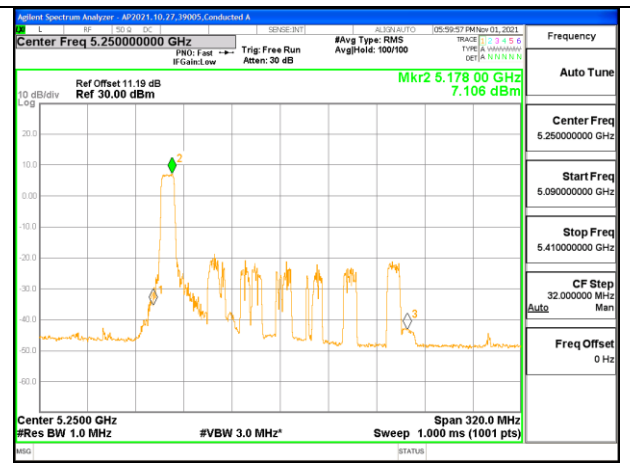
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	12.03	13.07	15.59	24.00	-8.41

**PSD Results**

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	6.779	7.106	10.06	11.00	-0.94



**MID CHANNEL Antenna 1**



**MID CHANNEL Antenna 2**

**2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 106-Tones, RU Index 60**

<b>Test Engineer:</b>	16080
<b>Test Date:</b>	2/9/2022

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5250	160.64	2.92	5.92	24.00	11.00

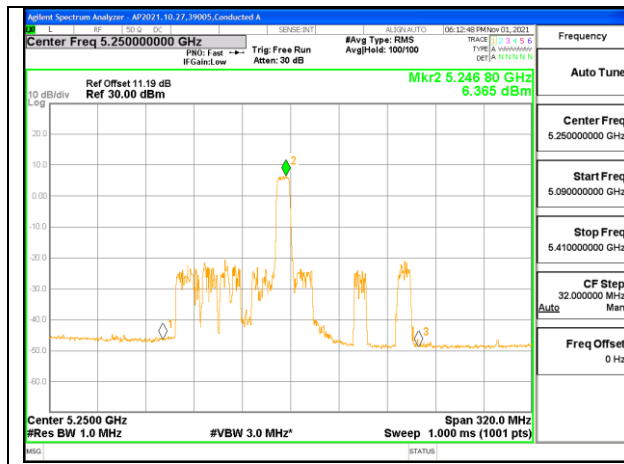
<b>Duty Cycle CF (dB)</b>	0.10	<b>Included in Calculations of Corr'd PSD</b>
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**Output Power Results**

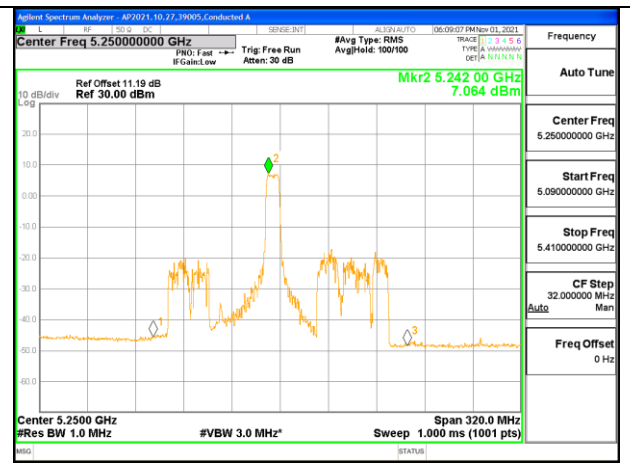
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5250	12.35	13.62	16.04	24.00	-7.96

**PSD Results**

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5250	6.365	7.064	9.84	11.00	-1.16



**MID CHANNEL Antenna 1**



**MID CHANNEL Antenna 2**