

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5670	43.44	37.800	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
High	5670	24.00	24.00	30.00	24.00	9.98	11.00	9.98

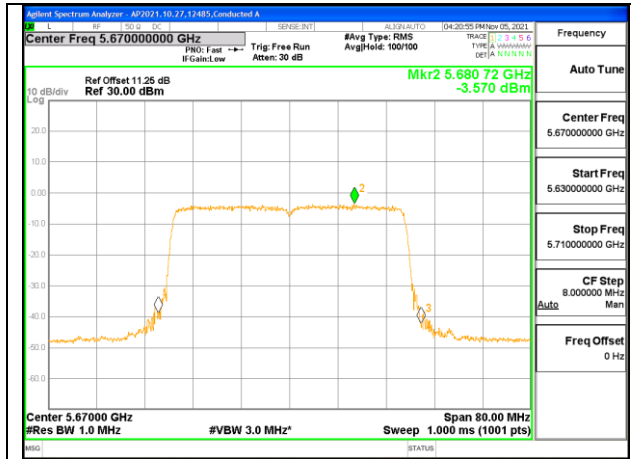
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

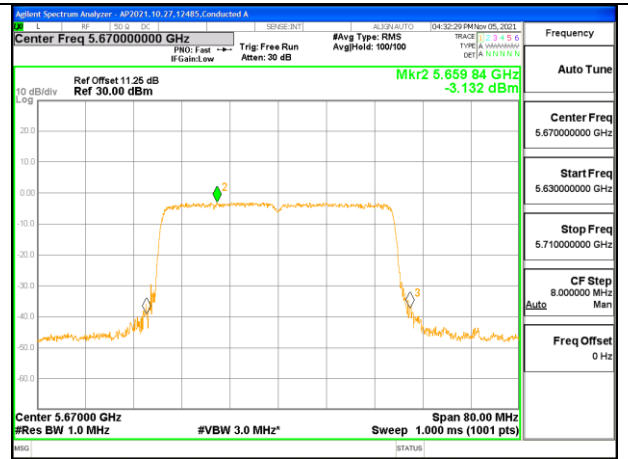
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5670	12.46	13.41	15.97	24.00	-8.03

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5670	-3.570	-3.132	-0.34	9.98	-10.32



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 2

2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 106-Tones, RU Index 56

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5670	41.12	36.439	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
High	5670	24.00	24.00	30.00	24.00	9.98	11.00	9.98

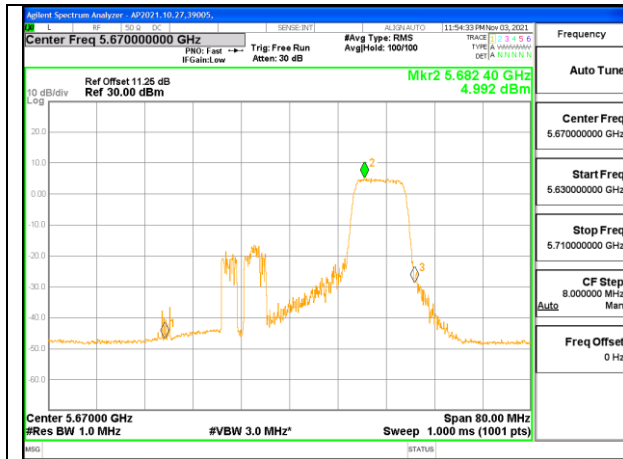
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

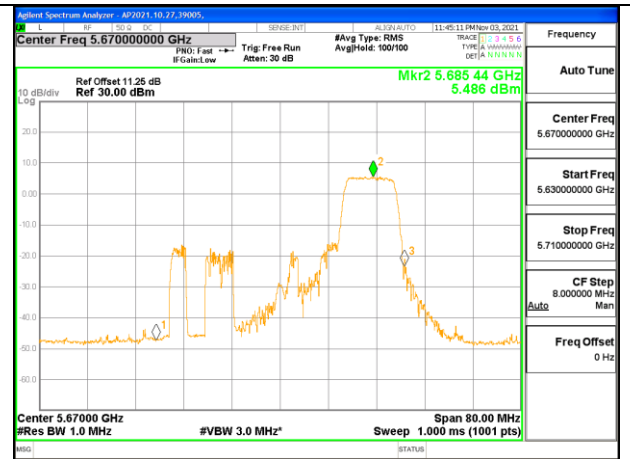
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5670	12.41	13.40	15.94	24.00	-8.06

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5670	4.992	5.486	8.26	9.98	-1.72



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 2

2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 52-Tones, RU Index 44

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5670	40.88	37.342	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
High	5670	24.00	24.00	30.00	24.00	9.98	11.00	9.98

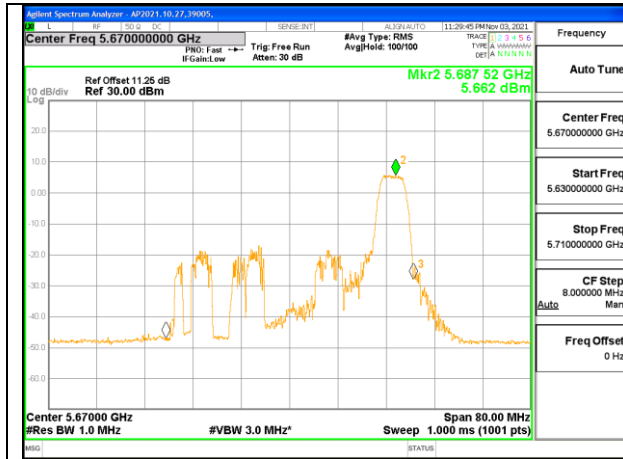
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

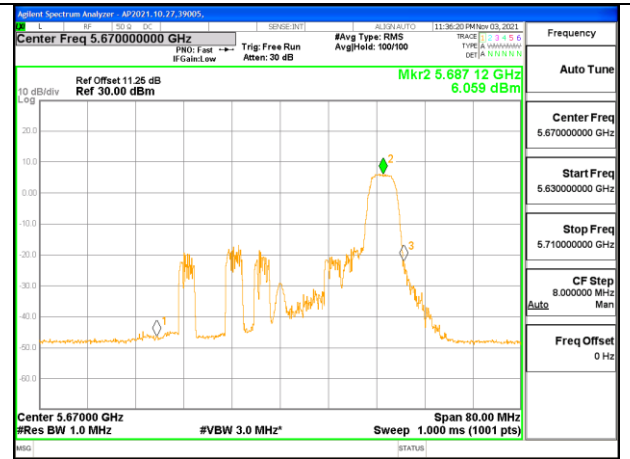
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5670	10.20	11.08	13.67	24.00	-10.33

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5670	5.662	6.059	8.88	9.98	-1.10



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 2

2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 26-Tones, RU Index 17

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5670	39.92	37.964	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
High	5670	24.00	24.00	30.00	24.00	9.98	11.00	9.98

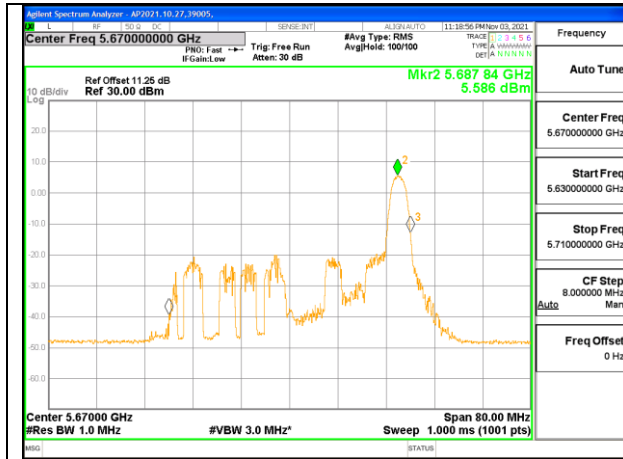
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

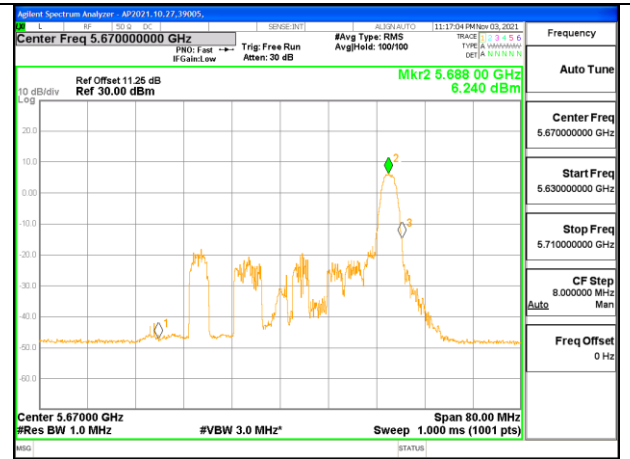
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5670	7.48	8.61	11.09	24.00	-12.91

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5670	5.586	6.240	8.94	9.98	-1.04



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 2

9.5.21. 802.11ax HE80 MODE 1TX IN THE 5.6GHz BAND (FCC+IC)

1TX Antenna 1 OFDM MODE: SU, Single User

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	83.68	77.223	3.50
High	5610	84.16	77.220	3.50
138	5690	84.32	76.907	3.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

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

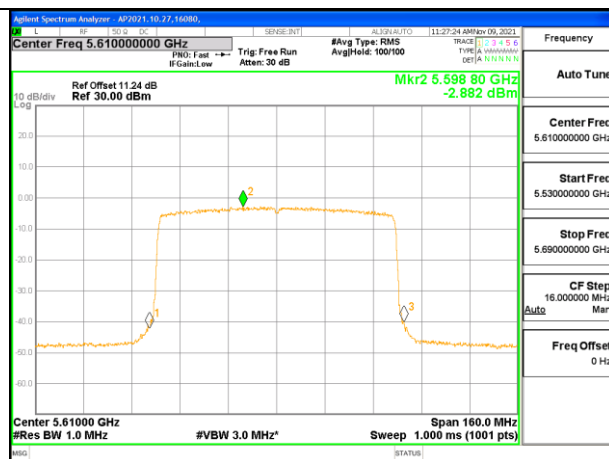
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	14.72	14.72	24.00	-9.28
High	5610	14.50	14.50	24.00	-9.50
138	5690	14.49	14.49	24.00	-9.51

PSD Results

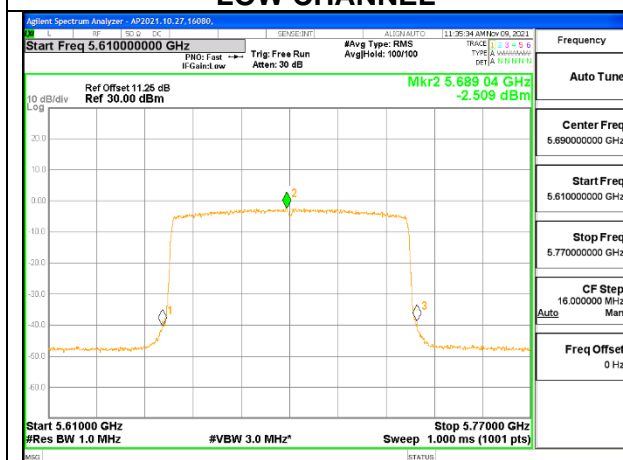
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-3.008	-3.008	11.00	-14.01
High	5610	-2.882	-2.882	11.00	-13.88
138	5690	-2.509	-2.509	11.00	-13.51



LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

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1TX Antenna 2 OFDM MODE: SU, Single User

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	83.84	77.050	4.50
High	5610	83.52	77.075	4.50
138	5690	83.52	77.157	4.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

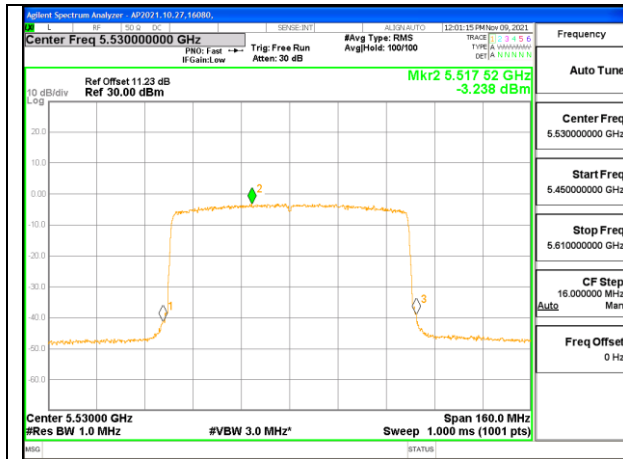
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

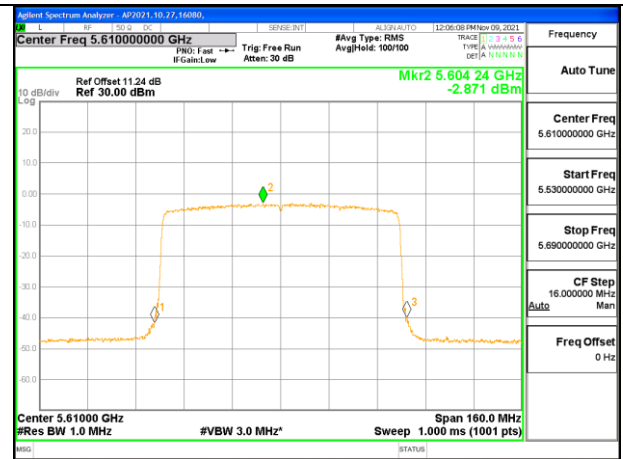
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.94	13.94	24.00	-10.06
High	5610	14.01	14.01	24.00	-9.99
138	5690	13.90	13.90	24.00	-10.10

PSD Results

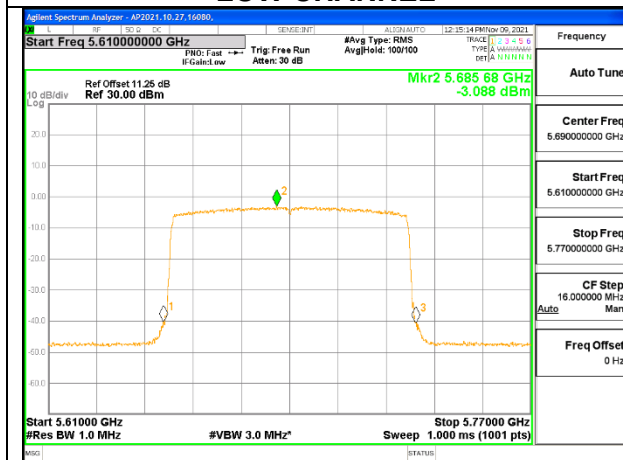
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-3.238	-3.238	11.00	-14.24
High	5610	-2.871	-2.871	11.00	-13.87
138	5690	-3.088	-3.088	11.00	-14.09



LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

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9.5.22. 802.11ax HE80 MODE 2TX IN THE 5.6GHz BAND (FCC+IC)

Note with a worst case 26dB BW of 15MHz and a 99% BW of 14MHz, the FCC Power Limit is 22.76 dBm, ISED Power limit is 22.46 dBm, ISED EIRP limit is 28.46 dBm. All powers are less than the worst case of 22.46 dBm, Since each respective tone is the same power and PSD across bandwidths therefore, HE80 Power and PSD is representative of HE20/40 for the straddle channel of 5720 & 5710.

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	84.00	77.087	4.03	7.02
High	5610	84.32	77.166	4.03	7.02
138	5690	76.92	73.561	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5530	24.00	24.00	30.00	24.00	9.98	11.00	9.98
High	5610	24.00	24.00	30.00	24.00	9.98	11.00	9.98
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

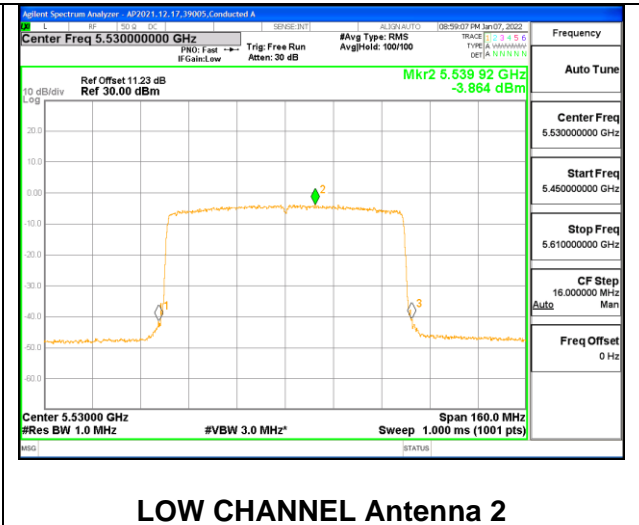
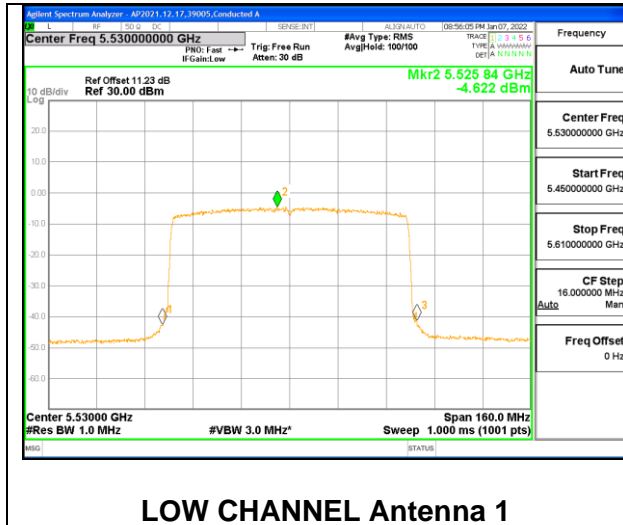
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	12.51	13.62	16.11	24.00	-7.89
High	5610	12.34	13.13	15.76	24.00	-8.24
138	5690	12.44	13.29	15.90	24.00	-8.10

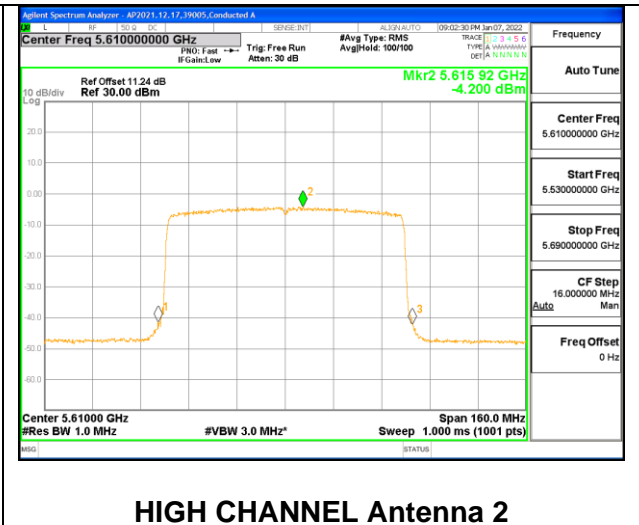
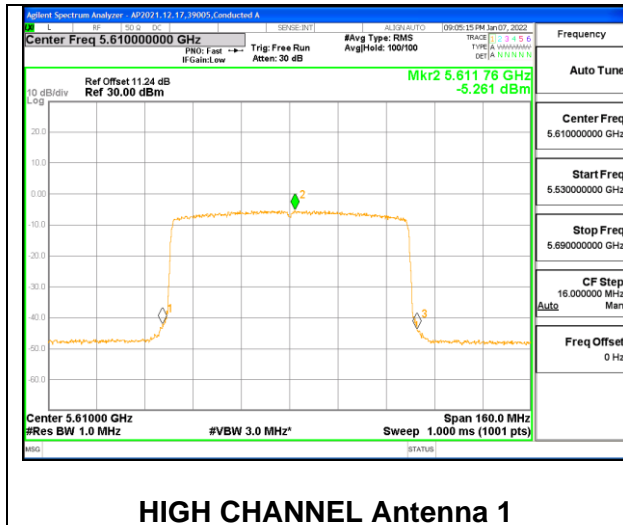
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5530	-4.622	-3.864	-1.216	9.98	-11.20
High	5610	-5.261	-4.200	-1.688	9.98	-11.67
138	5690	-4.769	-3.682	-1.181	9.98	-11.16



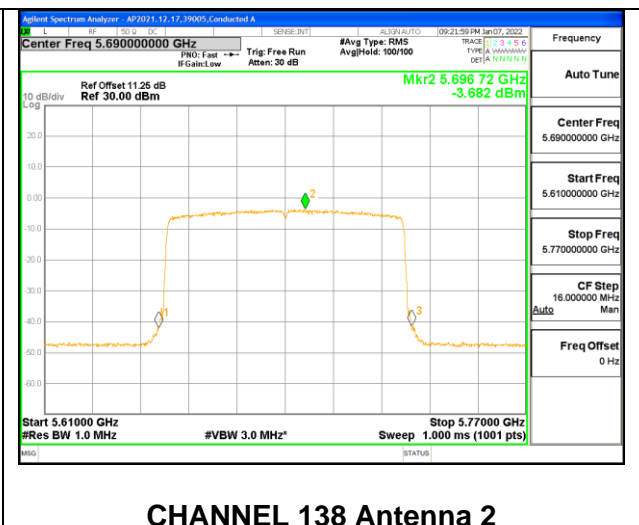
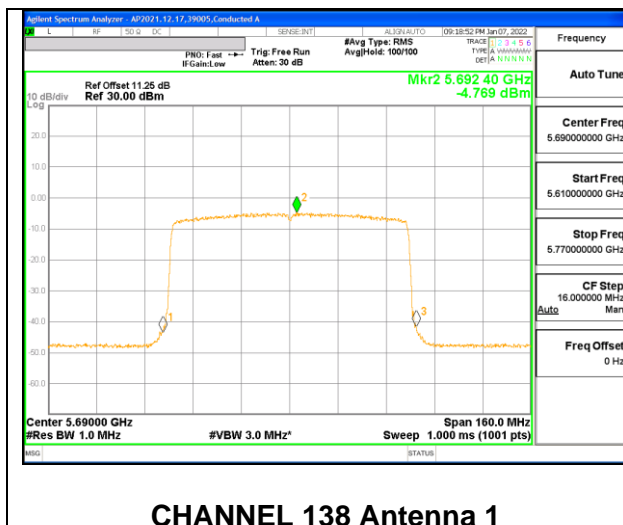
LOW CHANNEL Antenna 1

LOW CHANNEL Antenna 2



HIGH CHANNEL Antenna 1

HIGH CHANNEL Antenna 2



CHANNEL 138 Antenna 1

CHANNEL 138 Antenna 2

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	78.76	73.704	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

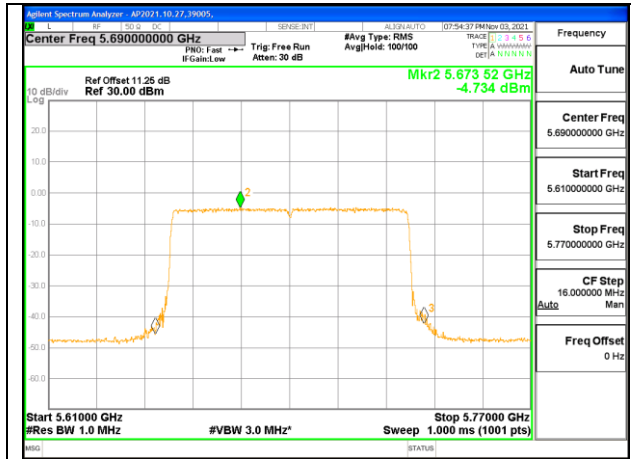
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

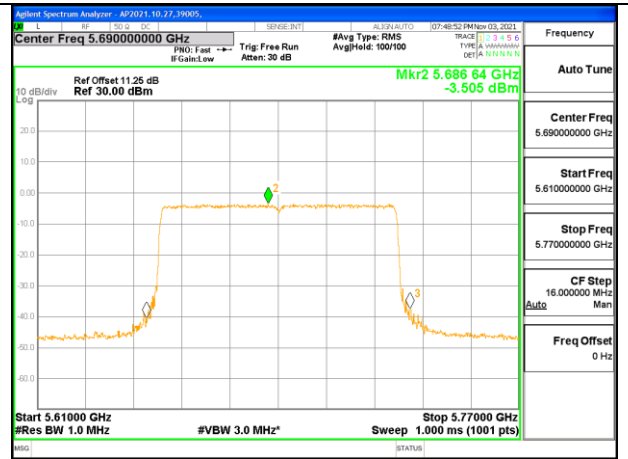
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	12.57	13.62	16.14	24.00	-7.86

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	-4.734	-3.505	-1.066	9.98	-11.05



CHANNEL 138 Antenna 1



CHANNEL 138 Antenna 2

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	77.56	73.683	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

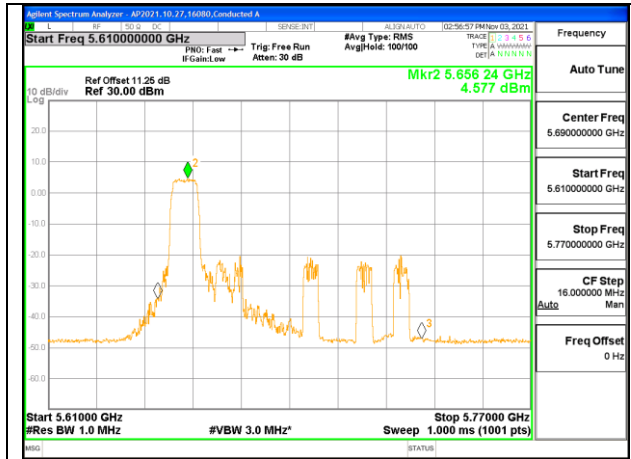
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	12.86	13.58	16.25	24.00	-7.75

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	4.577	5.537	8.094	9.98	-1.89



CHANNEL 138 Antenna 1



CHANNEL 138 Antenna 2

2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 106-Tones, RU Index 56

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	74.92	72.322	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

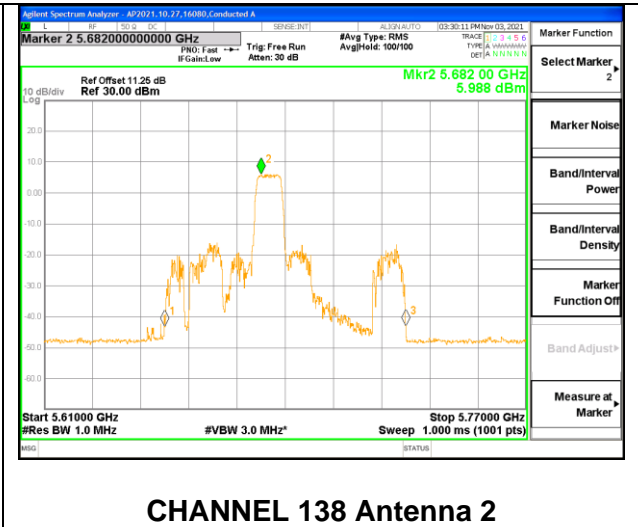
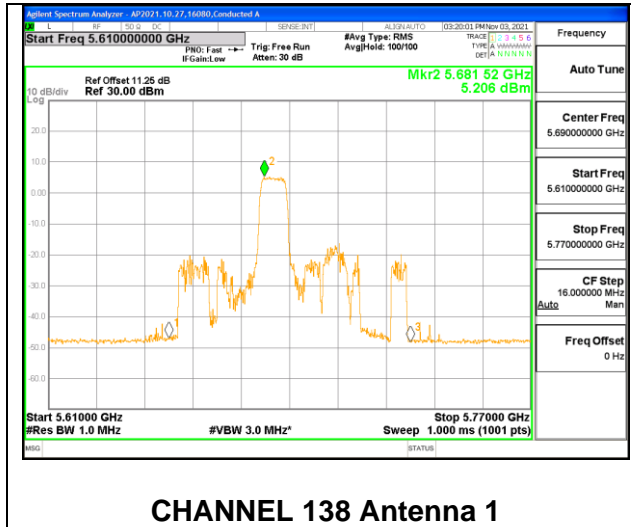
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	12.96	13.64	16.32	24.00	-7.68

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	5.206	5.988	8.625	9.98	-1.36



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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	77.80	73.514	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

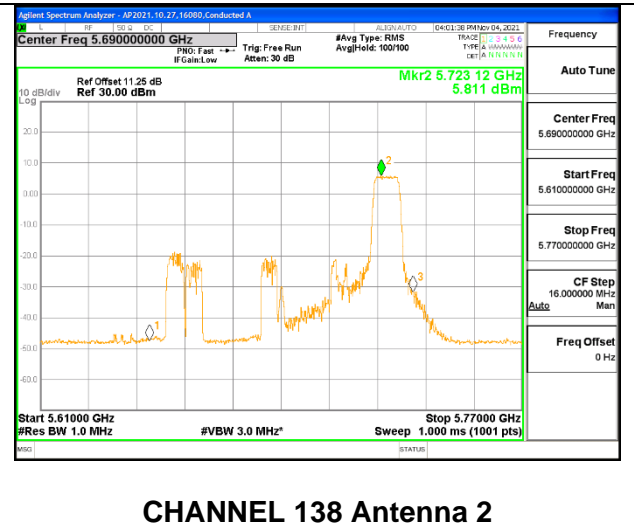
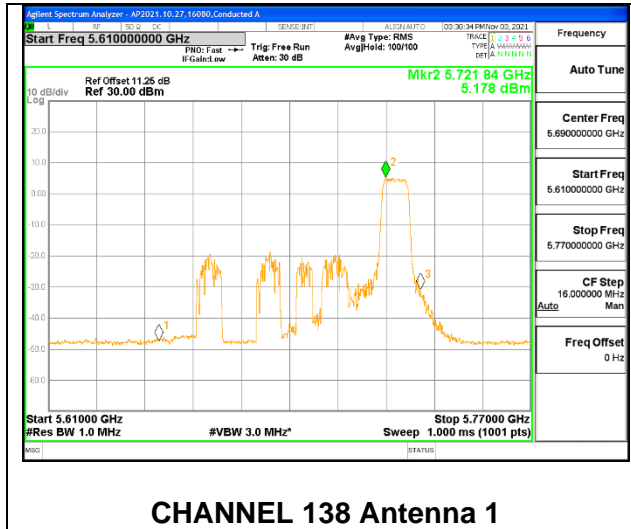
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	12.86	13.61	16.26	24.00	-7.74

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	5.178	5.811	8.516	9.98	-1.46



2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 52-Tones, RU Index 37

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	77.40	73.496	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

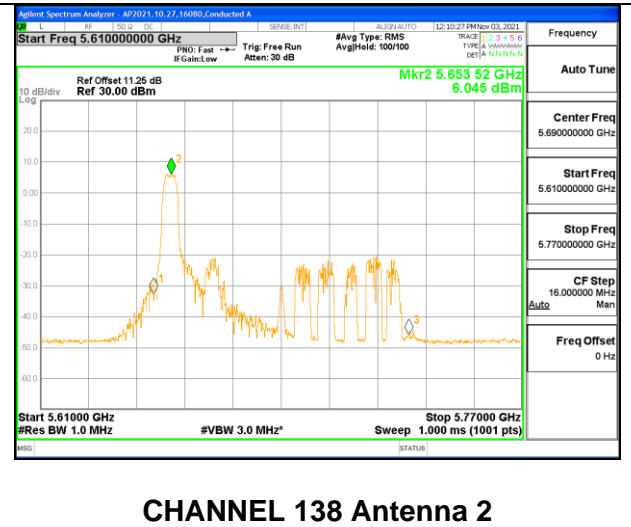
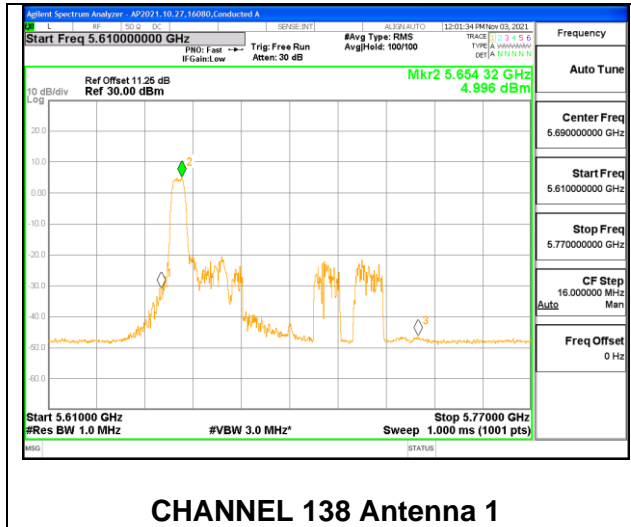
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	10.68	11.23	13.97	24.00	-10.03

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	4.996	6.045	8.562	9.98	-1.42



2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 52-Tones, RU Index 44

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	74.76	71.784	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

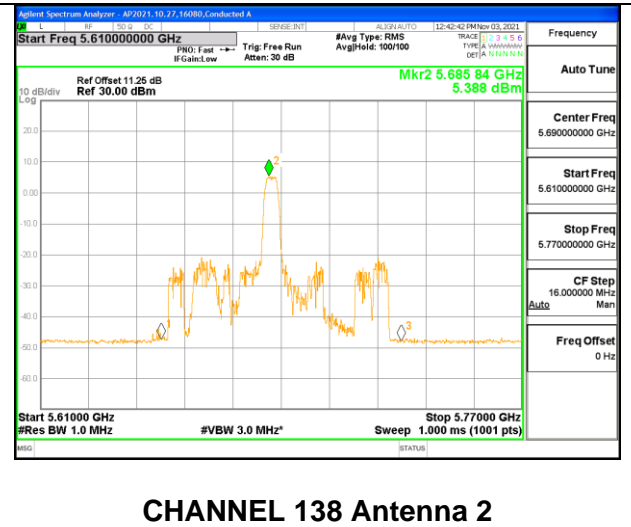
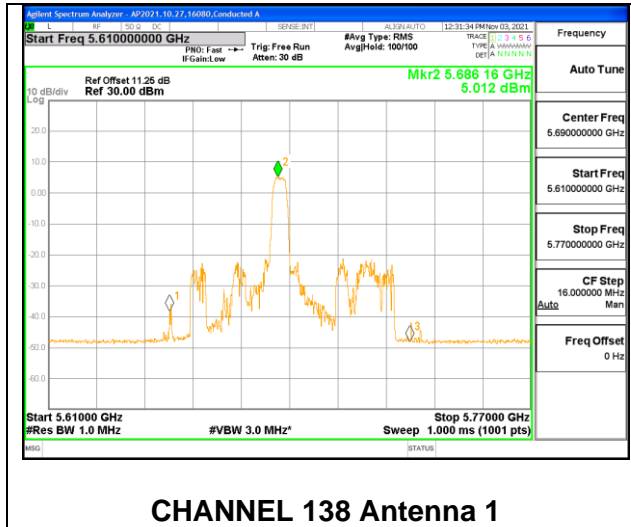
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	10.61	11.02	13.83	24.00	-10.17

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	5.012	5.388	8.214	9.98	-1.77



2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 52-Tones, RU Index 52

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	77.40	73.565	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

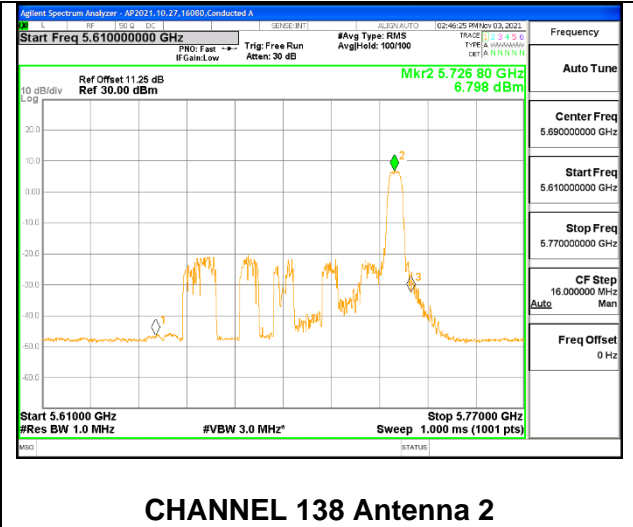
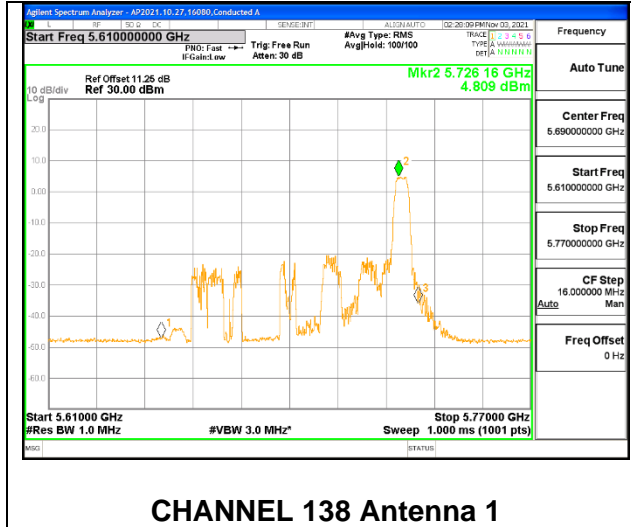
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	10.56	11.10	13.85	24.00	-10.15

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	4.809	6.798	8.927	9.98	-1.05



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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	76.44	74.168	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

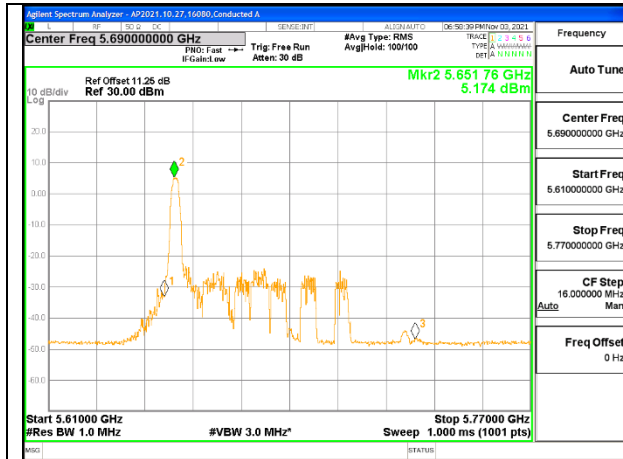
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

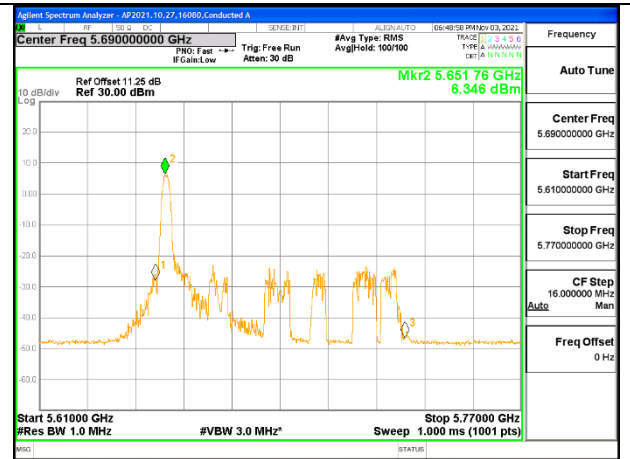
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	7.89	8.39	11.16	24.00	-12.84

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	5.174	6.346	8.810	9.98	-1.17



CHANNEL 138 Antenna 1



CHANNEL 138 Antenna 2

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	74.20	72.566	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

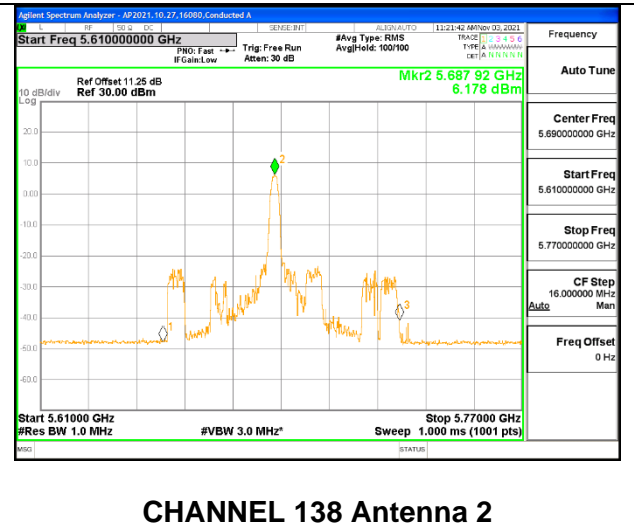
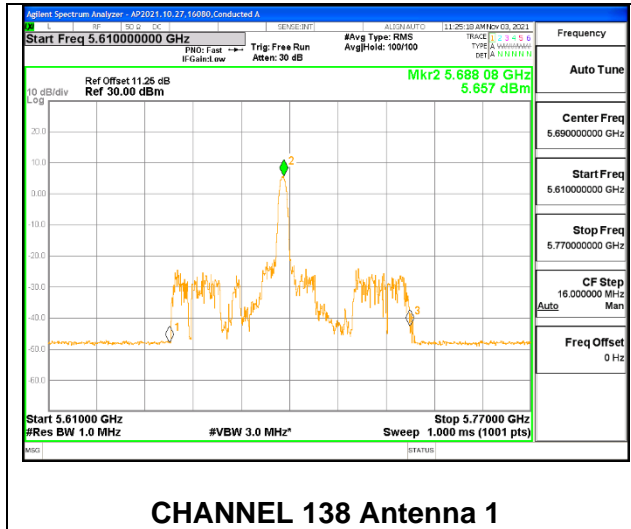
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	7.99	8.68	11.36	24.00	-12.64

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	5.657	6.178	8.936	9.98	-1.04



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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
138	5690	76.36	74.232	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
138	5690	24.00	24.00	30.00	24.00	9.98	11.00	9.98

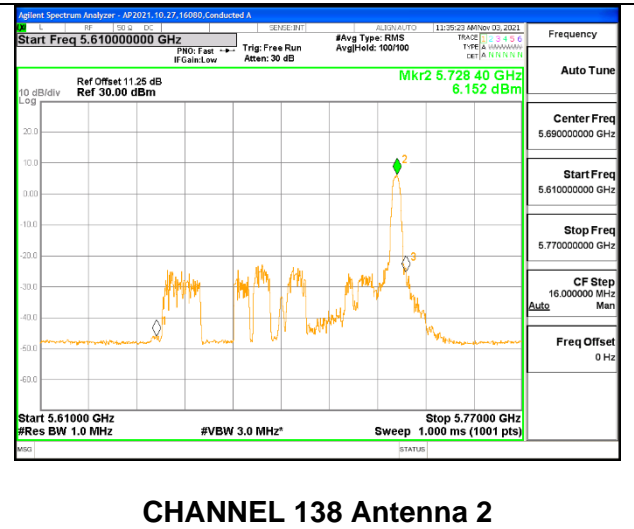
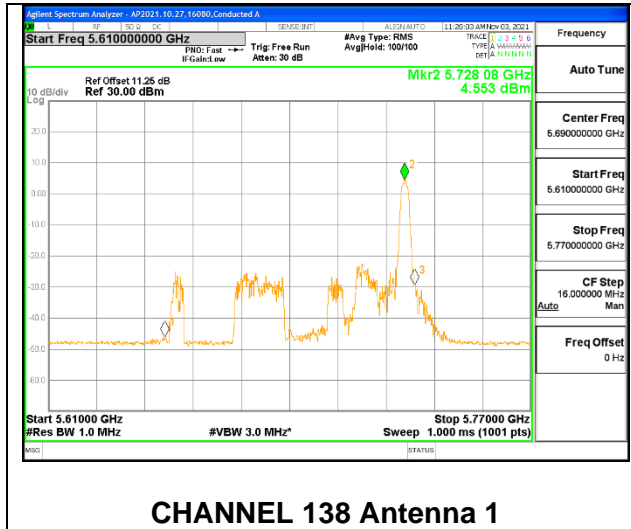
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi n (dB)
138	5690	7.82	8.41	11.14	24.00	-12.86

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi n (dB)
138	5690	4.553	6.152	8.436	9.98	-1.54



9.5.23. 802.11ax HE160 MODE 1TX IN THE 5.6GHz BAND (FCC+IC)

1TX Antenna 1 OFDM MODE: SU, Single User

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5570	168.00	156.17	3.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	11.00	11.00	11.00

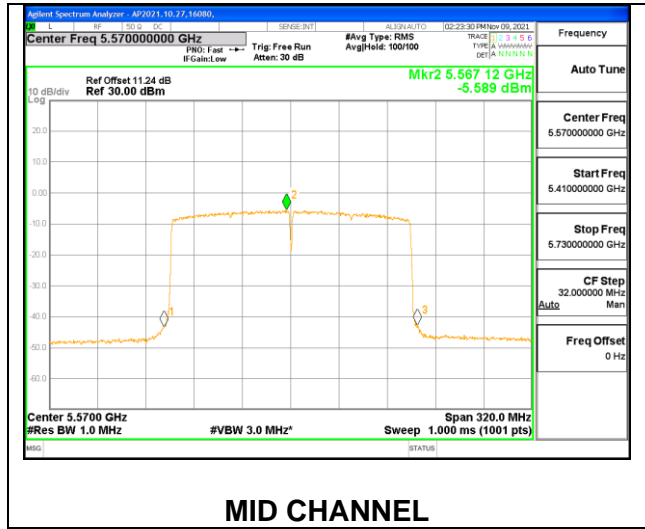
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5570	14.35	14.35	24.00	-9.65

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5570	-5.589	-5.59	11.00	-16.59



1TX Antenna 2 OFDM MODE: SU, Single User

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5570	169.28	156.15	4.50

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	11.00	11.00	11.00

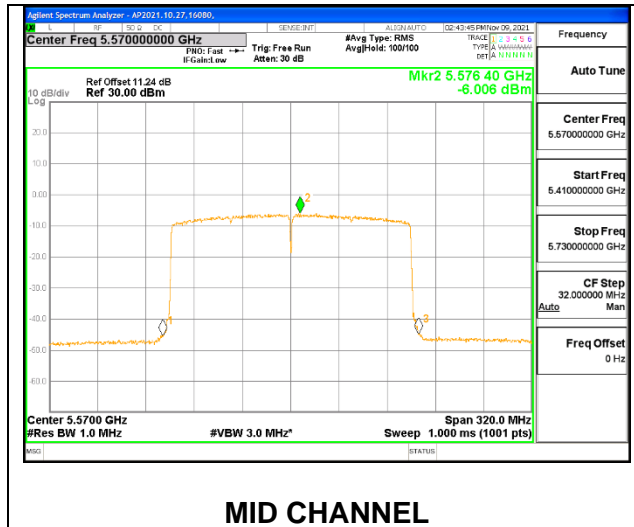
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5570	13.82	13.82	24.00	-10.18

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5570	-6.006	-6.01	11.00	-17.01



9.5.24. 802.11ax HE160 MODE 2TX IN THE 5.6GHz BAND (FCC+IC)

Note for OFDMA - With a worst case 26dB BW of 20MHz and 99% BW of 18MHz, the FCC Power Limit is 24 dBm, IC EIRP Limit is 29.55 dBm and ISED Power Limit is 23.55 dBm. All HE160 power is less than the worst case of 23.55 dBm. Since each respective tone is the same power and PSD across bandwidths, the HE160 Power and PSD is representative of HE20/40/80 at the low and mid channel for the 5.6GHz band

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	167.68	156.11	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

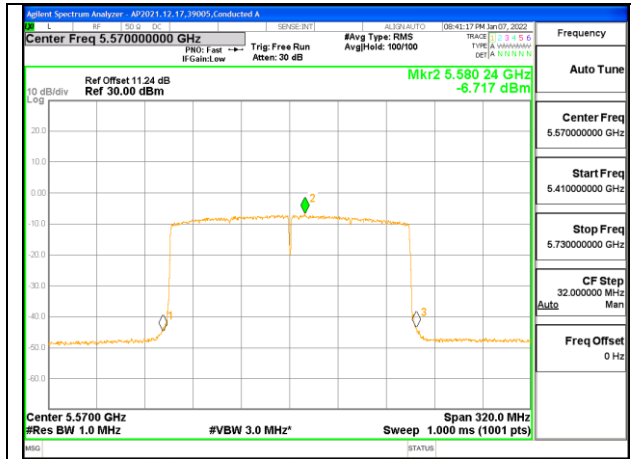
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

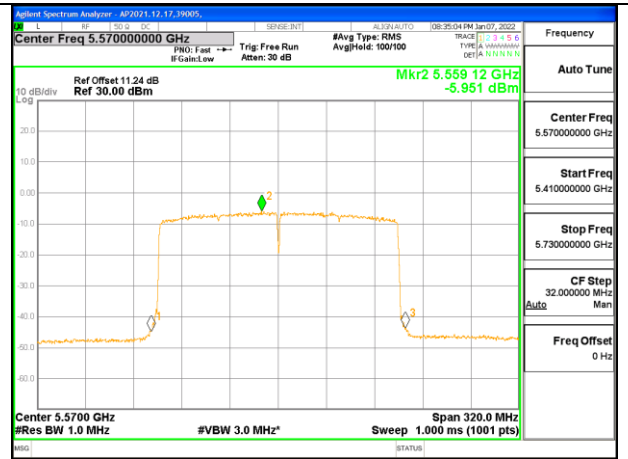
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	12.25	13.31	15.82	24.00	-8.18

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 Margi (dB)
Low	5570	-6.717	-5.951	-3.31	9.98	-13.29



MID CHANNEL Antenna 1



MID CHANNEL Antenna 2

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	172.80	157.07	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

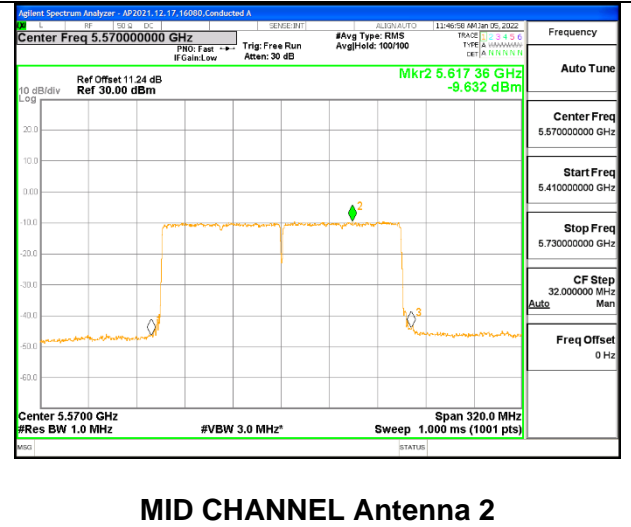
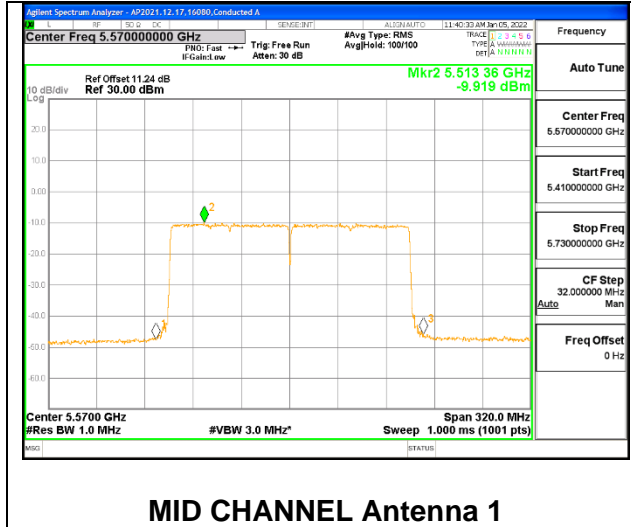
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	10.23	10.43	13.34	24.00	-10.66

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 Margi (dB)
Low	5570	-9.919	-9.632	-6.66	9.98	-16.64



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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	171.52	156.71	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

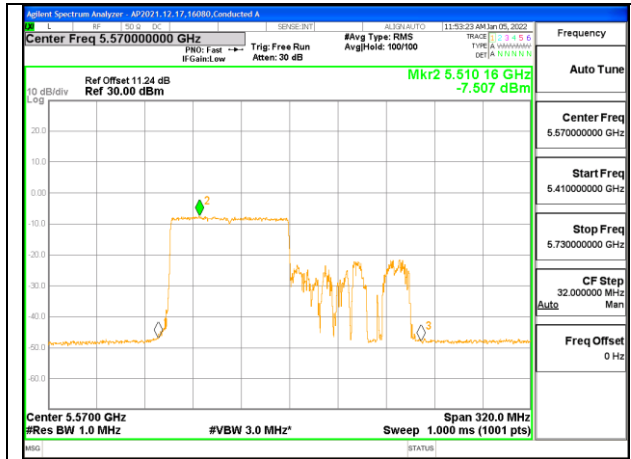
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	10.33	10.53	13.44	24.00	-10.56

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 Margi (dB)
Low	5570	-7.507	-7.130	-4.20	9.98	-14.18



MID CHANNEL Antenna 1



MID CHANNEL Antenna 2

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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	169.92	155.07	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

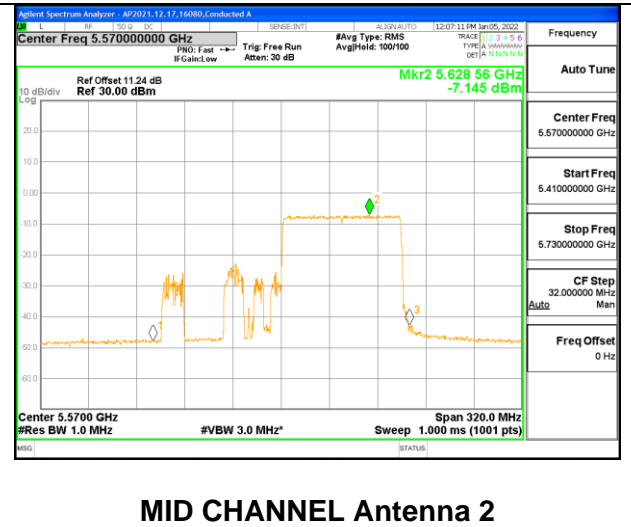
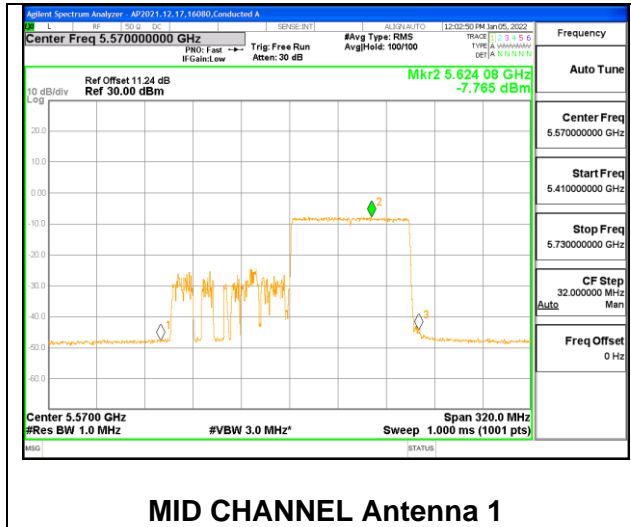
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	10.25	10.53	13.40	24.00	-10.60

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 Margi (dB)
Low	5570	-7.765	-7.145	-4.33	9.98	-14.31



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

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	169.28	156.33	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

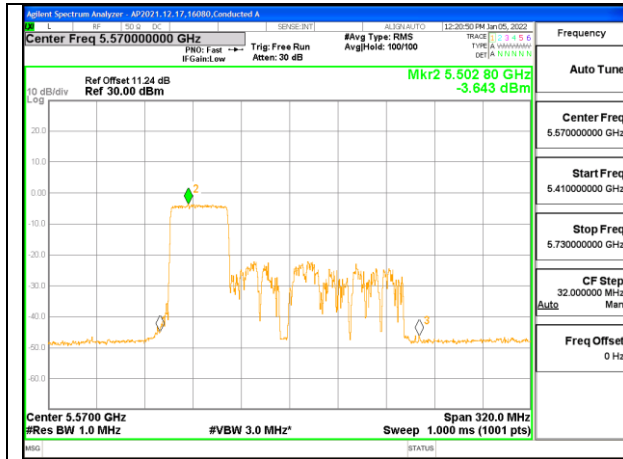
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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Output Power Results

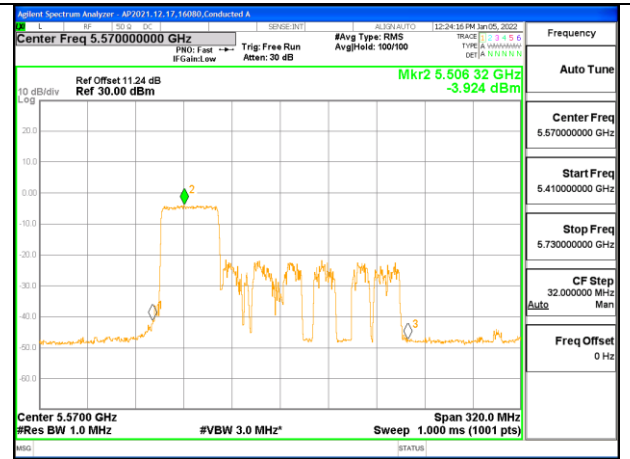
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	11.02	10.66	13.85	24.00	-10.15

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 Margi (dB)
Low	5570	-3.643	-3.924	-0.67	9.98	-10.65



MID CHANNEL Antenna 1



MID CHANNEL Antenna 2

2TX Antenna 1 + Antenna 2 CDD OFDMA MODE: 484-Tones, RU Index 66

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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5570	163.84	153.40	4.03	7.02

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5570	24.00	24.00	30.00	24.00	9.98	11.00	9.98

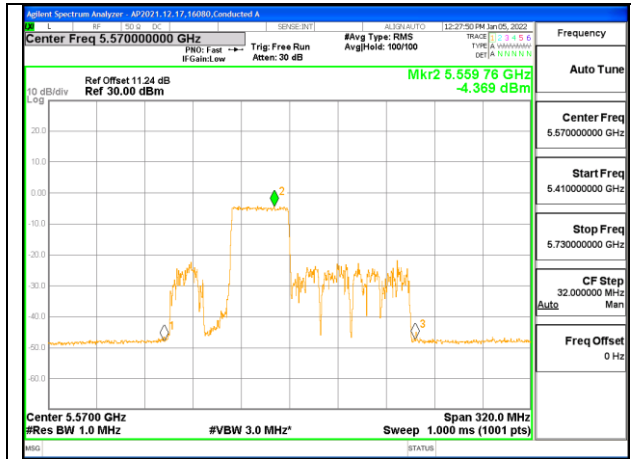
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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Output Power Results

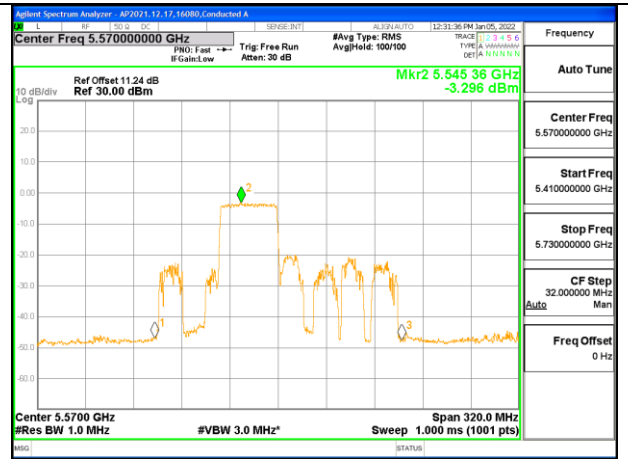
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5570	10.84	10.82	13.84	24.00	-10.16

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 Margi (dB)
Low	5570	-4.369	-3.296	-0.69	9.98	-10.67



MID CHANNEL Antenna 1



MID CHANNEL Antenna 2