

### 4.5.3. 802.11ac VHT40 MODE IN THE 5.2 GHz BAND

#### 4Tx 4 STREAM CDD MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5190               | 3.98                                      | 3.98                                    | 30.00                   | 17.00                 |
| High    | 5230               | 3.98                                      | 3.98                                    | 30.00                   | 17.00                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.32 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

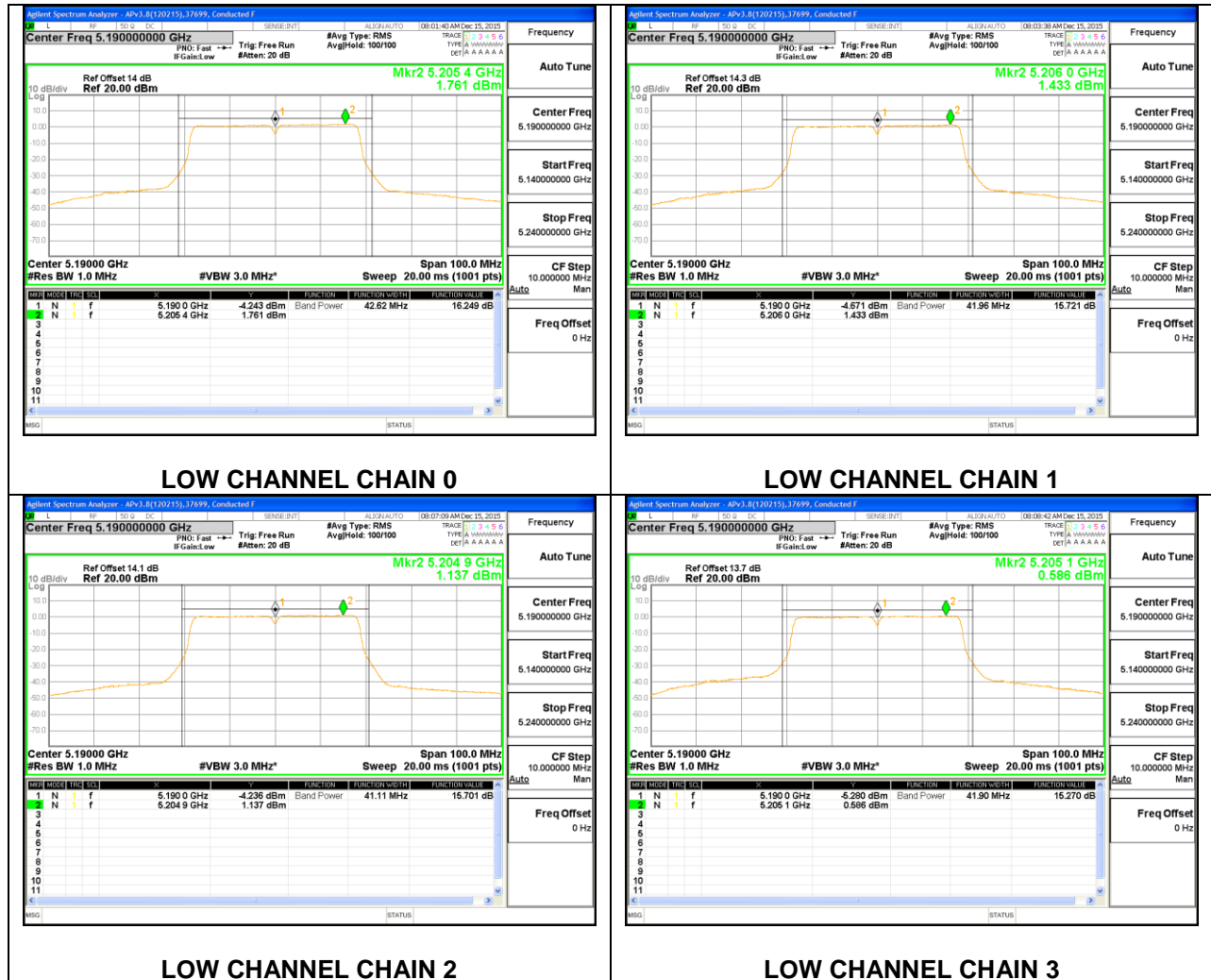
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 16.25                             | 15.72                             | 15.70                             | 15.27                             | 22.09                             | 30.00                   | -7.91                   |
| High    | 5230               | 22.21                             | 21.17                             | 21.00                             | 21.18                             | 27.75                             | 30.00                   | -2.25                   |

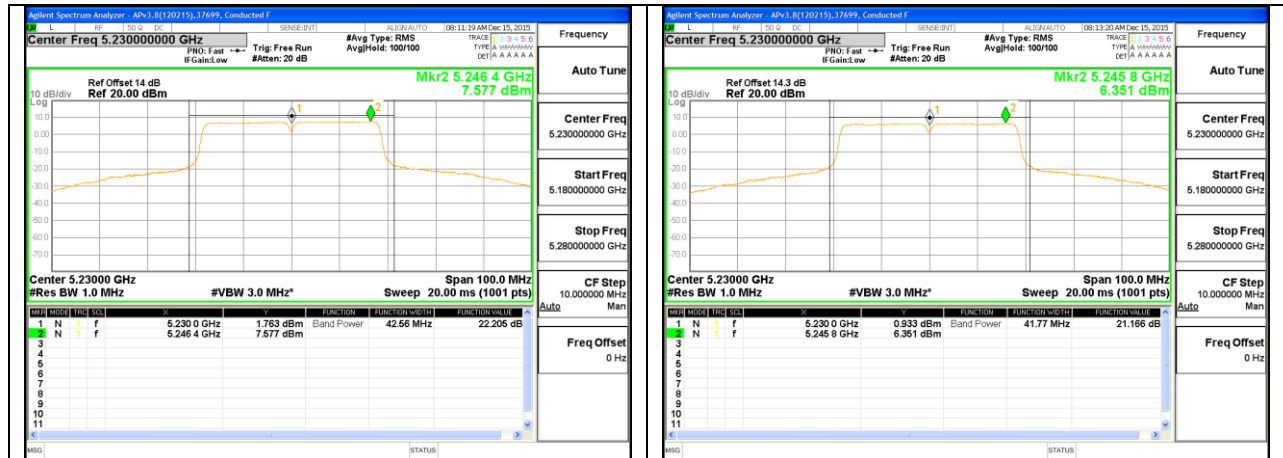
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5190               | 1.76                            | 1.43                            | 1.14                            | 0.59                            | 7.59                            | 17.00                 | -9.41                 |
| High    | 5230               | 7.58                            | 6.35                            | 6.28                            | 6.39                            | 13.02                           | 17.00                 | -3.98                 |

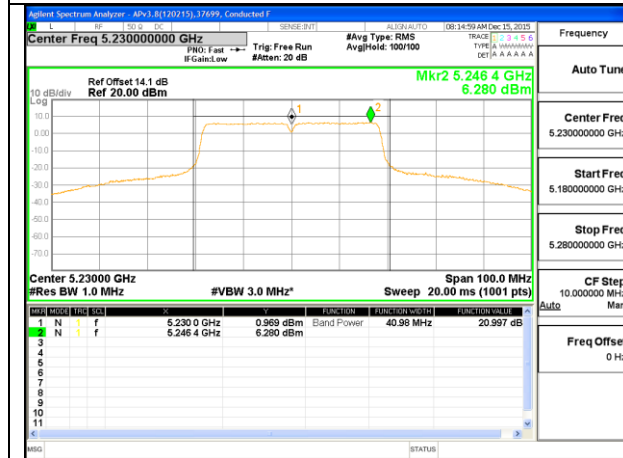
## LOW CHANNEL



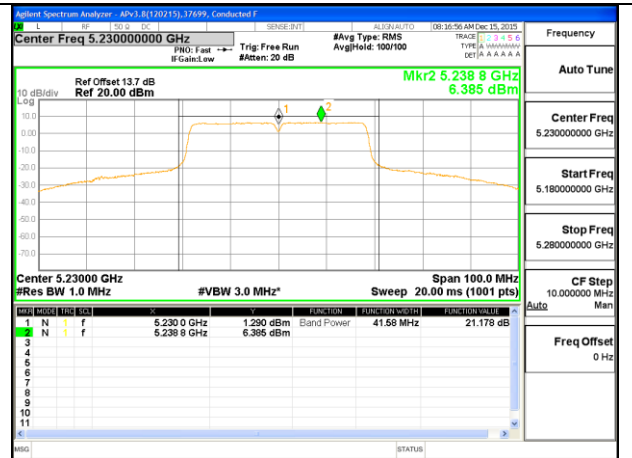
## HIGH CHANNEL



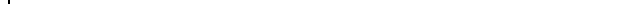
## HIGH CHANNEL CHAIN 0



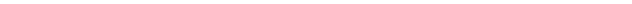
## HIGH CHANNEL CHAIN 1



## HIGH CHANNEL CHAIN 2



## HIGH CHANNEL CHAIN 3



#### 4Tx 1 STREAM CDD MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5190               | 3.98                                      | 9.92                                    | 30.00                   | 13.08                 |
| High    | 5230               | 3.98                                      | 9.92                                    | 30.00                   | 13.08                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.15 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

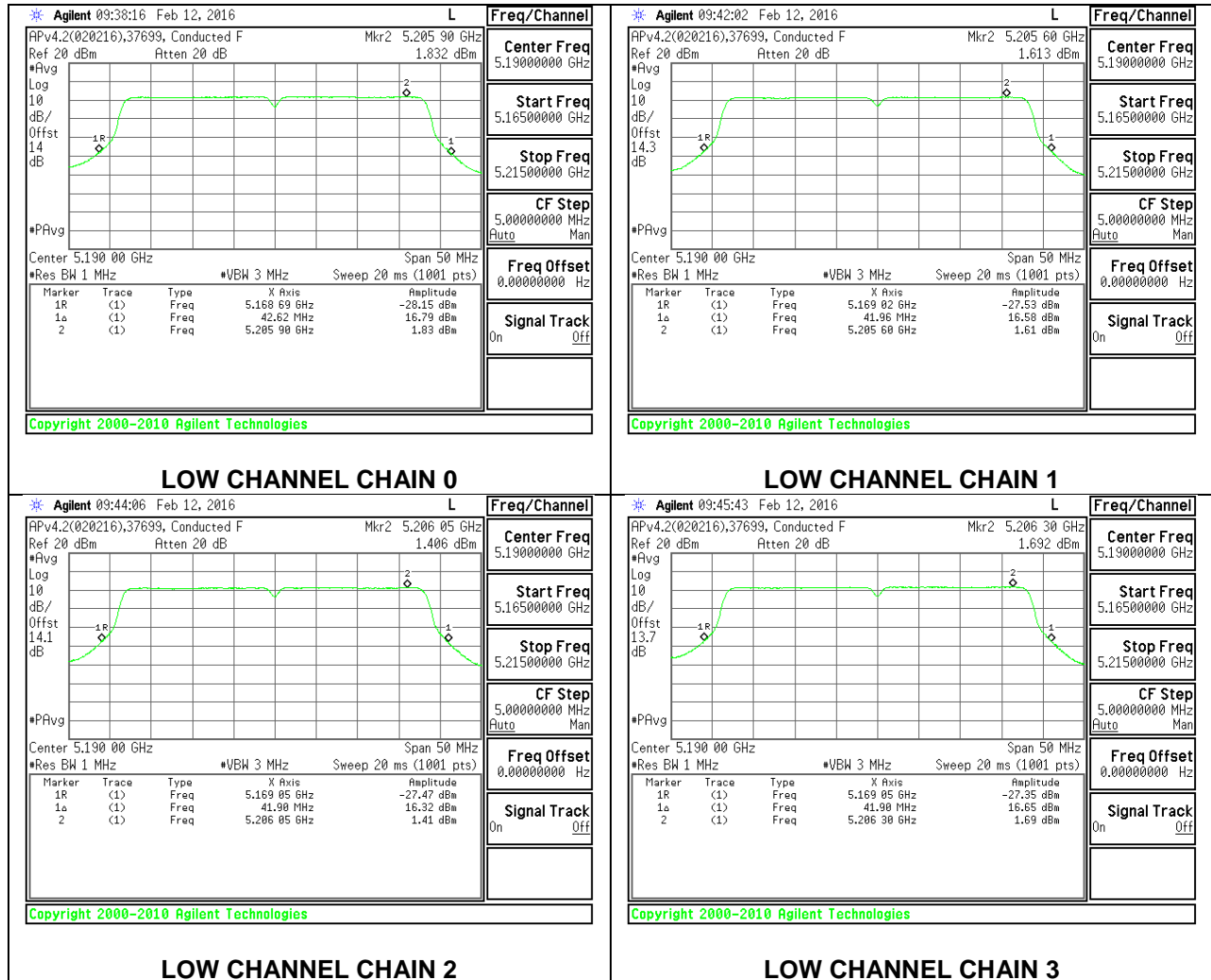
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 16.79                             | 16.58                             | 16.32                             | 16.65                             | 22.76                             | 30.00                   | -7.24                   |
| High    | 5230               | 21.85                             | 21.38                             | 21.33                             | 21.41                             | 27.67                             | 30.00                   | -2.33                   |

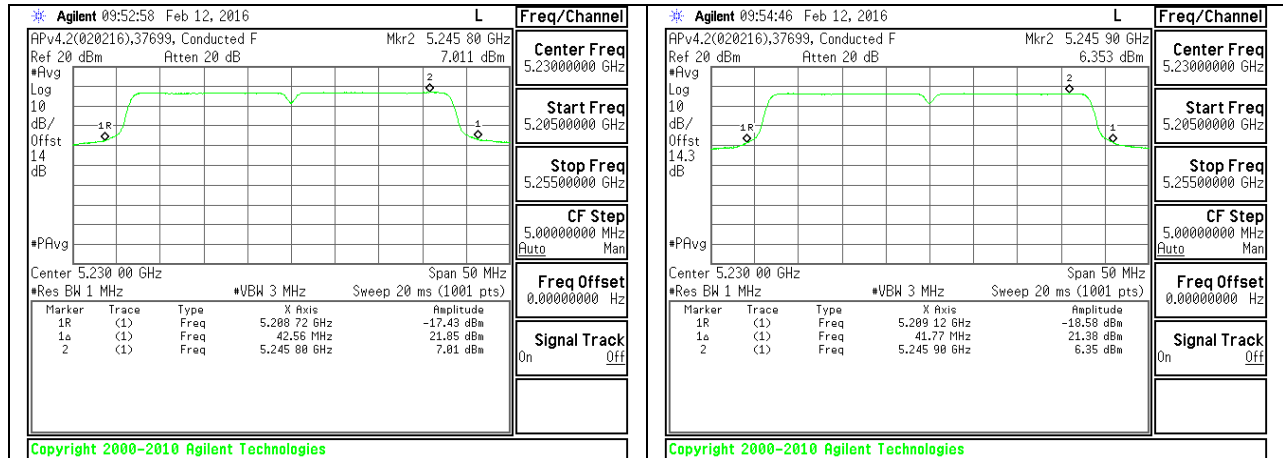
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5190               | 1.83                            | 1.61                            | 1.41                            | 1.69                            | 7.81                            | 13.08                 | -5.27                 |
| High    | 5230               | 7.01                            | 6.35                            | 6.56                            | 6.47                            | 12.78                           | 13.08                 | -0.30                 |

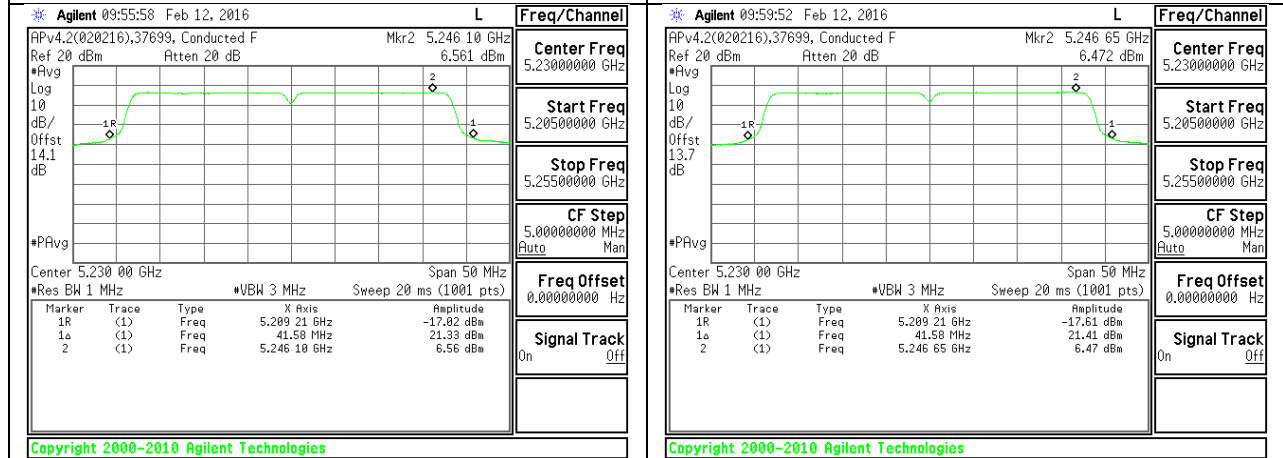
## LOW CHANNEL



## HIGH CHANNEL



### HIGH CHANNEL CHAIN 0



### HIGH CHANNEL CHAIN 2

### HIGH CHANNEL CHAIN 3

#### 4Tx 3 STREAM BF MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5190               | 6.03                                      | 6.03                                    | 29.97                   | 16.97                 |
| High    | 5230               | 6.03                                      | 6.03                                    | 29.97                   | 16.97                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.82 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

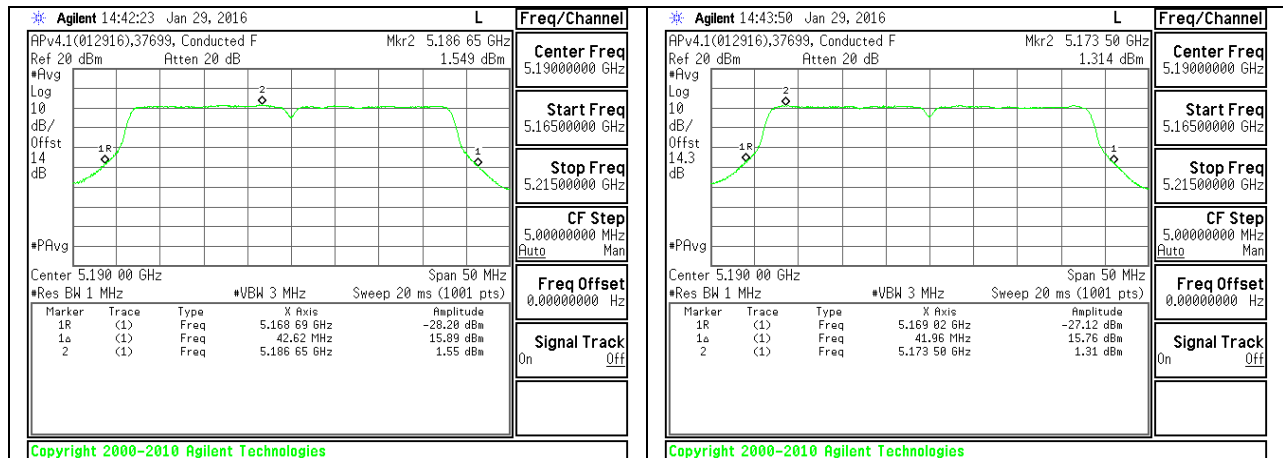
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.89                             | 15.76                             | 15.43                             | 14.62                             | 22.29                             | 29.97                   | -7.68                   |
| High    | 5230               | 22.42                             | 22.44                             | 21.51                             | 22.14                             | 28.98                             | 29.97                   | -0.99                   |

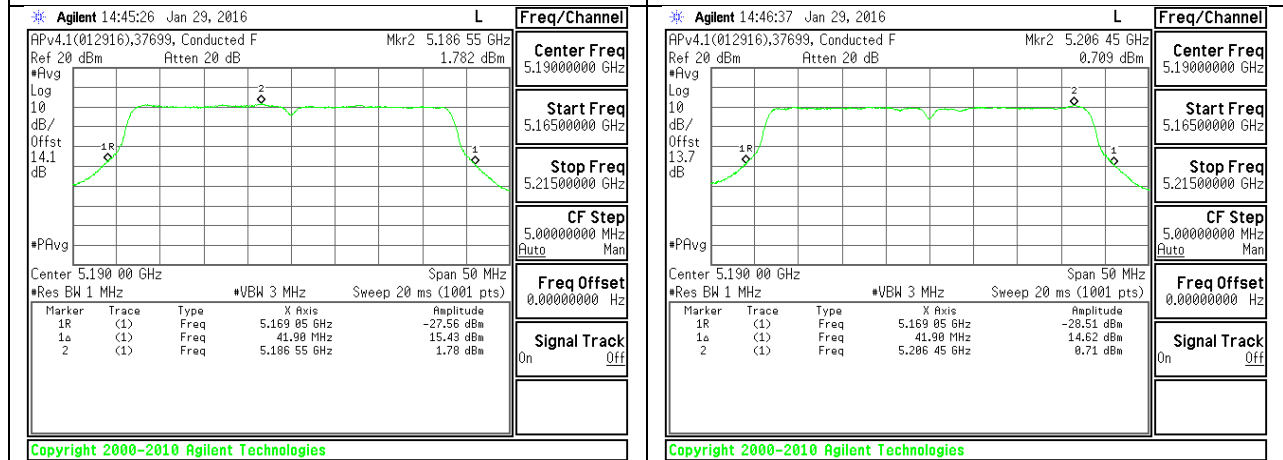
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5190               | 1.55                            | 1.31                            | 1.78                            | 0.71                            | 8.20                            | 16.97                 | -8.77                 |
| High    | 5230               | 8.55                            | 9.25                            | 8.21                            | 7.46                            | 15.25                           | 16.97                 | -1.72                 |

## LOW CHANNEL



### LOW CHANNEL CHAIN 0

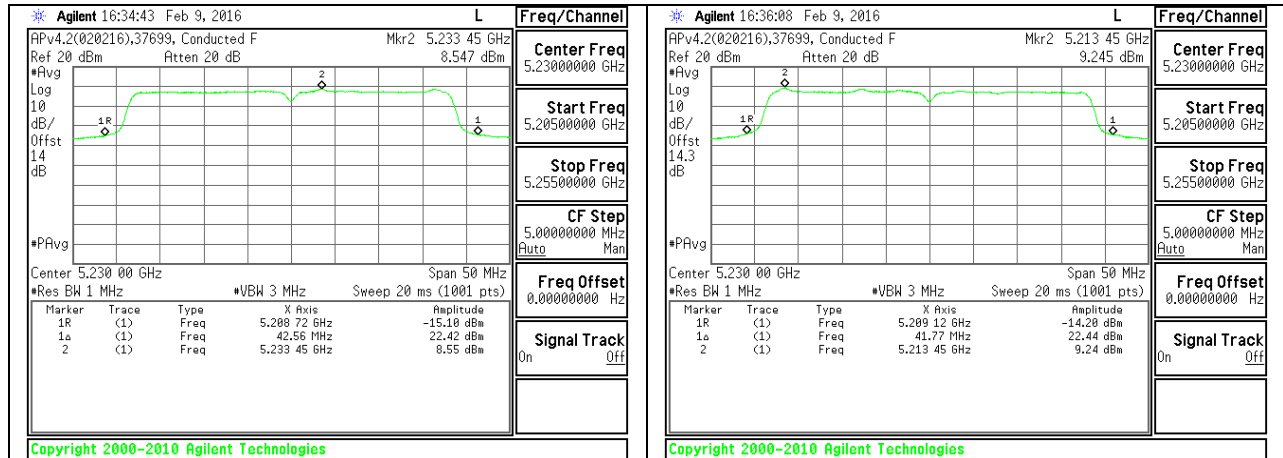


### LOW CHANNEL CHAIN 2

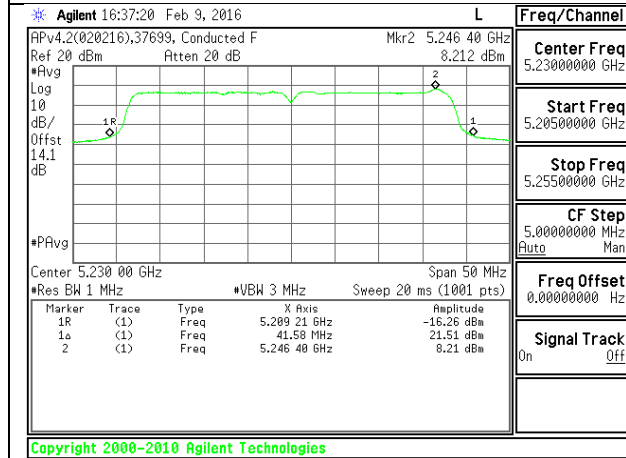
### LOW CHANNEL CHAIN 3



## HIGH CHANNEL

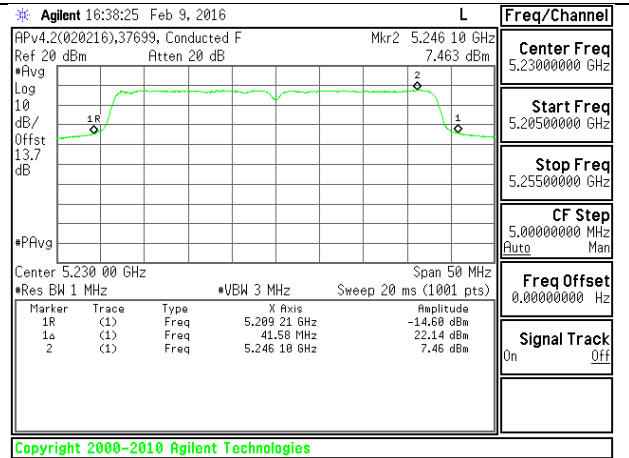


### HIGH CHANNEL CHAIN 0



### HIGH CHANNEL CHAIN 2

### HIGH CHANNEL CHAIN 1



### HIGH CHANNEL CHAIN 3

#### 4Tx 1 STREAM BF MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5190               | 9.92                                      | 9.92                                    | 26.08                   | 13.08                 |
| High    | 5230               | 9.92                                      | 9.92                                    | 26.08                   | 13.08                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 1.11 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

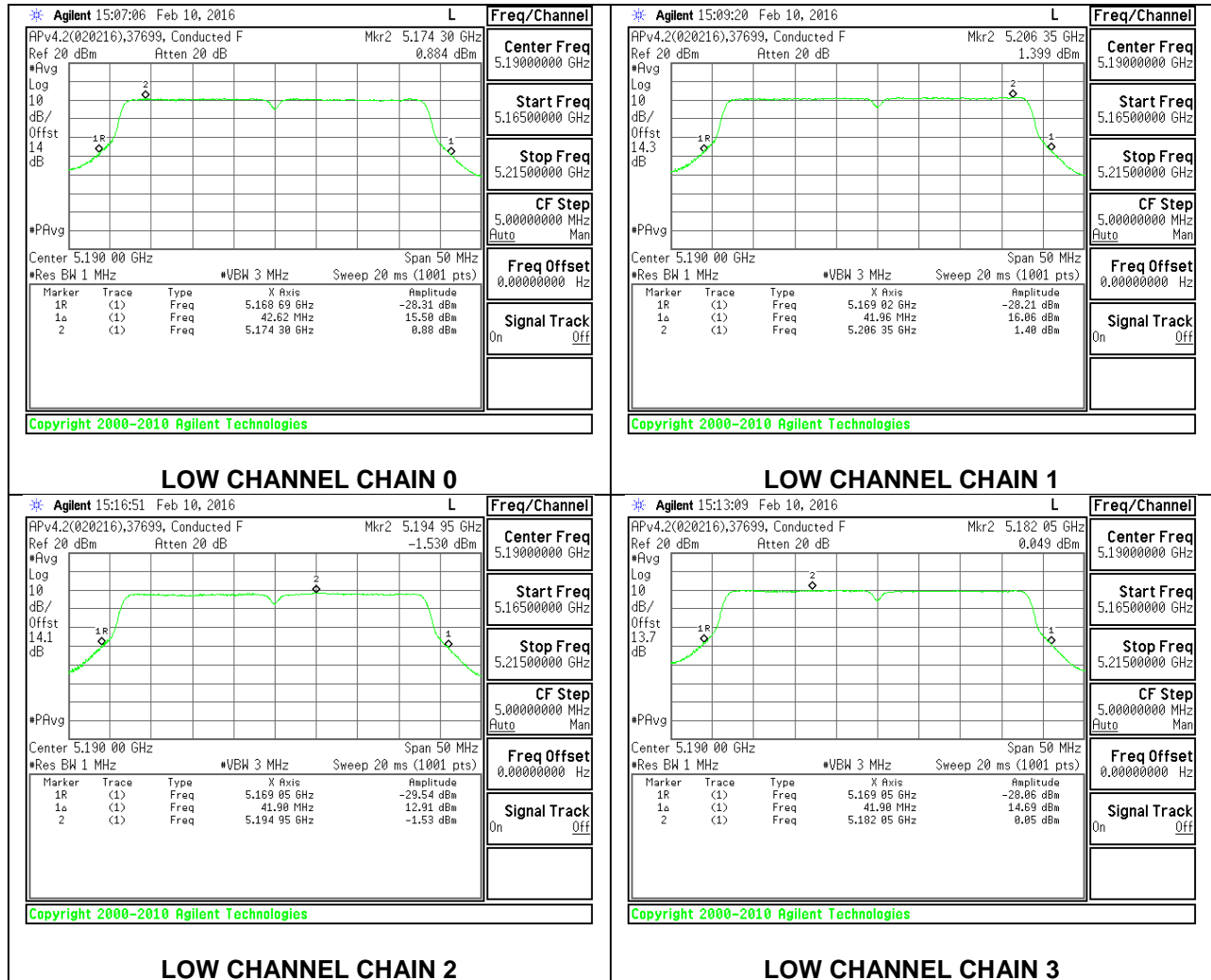
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5190               | 15.50                             | 16.06                             | 12.91                             | 14.69                             | 22.07                             | 26.08                   | -4.01                   |
| High    | 5230               | 18.73                             | 19.06                             | 16.37                             | 17.67                             | 25.21                             | 26.08                   | -0.87                   |

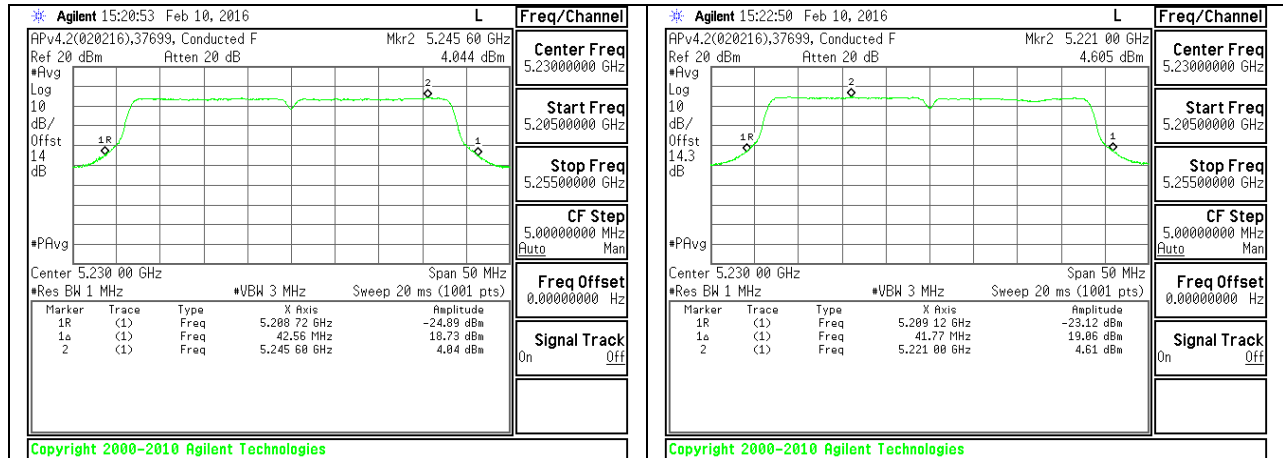
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5190               | 0.88                            | 1.40                            | -1.53                           | 0.05                            | 7.47                            | 13.08                 | -5.61                 |
| High    | 5230               | 4.04                            | 4.61                            | 2.65                            | 3.03                            | 10.78                           | 13.08                 | -2.30                 |

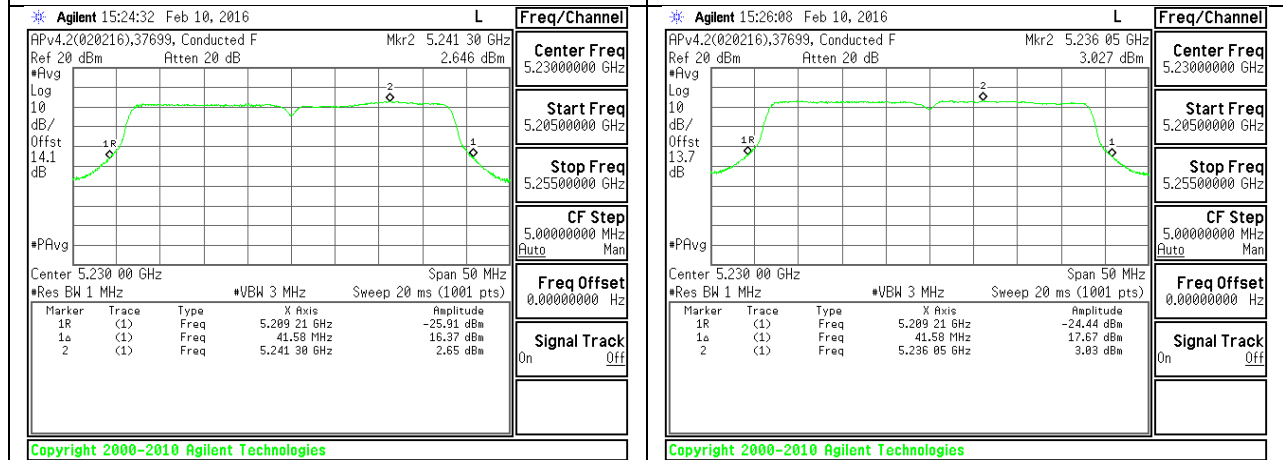
## LOW CHANNEL



## HIGH CHANNEL



## HIGH CHANNEL CHAIN 0



## HIGH CHANNEL CHAIN 2

## HIGH CHANNEL CHAIN 3

#### 4.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

##### 4Tx 4 STREAM CDD MODE

###### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Mid     | 5210               | 3.98                                      | 3.98                                    | 30.00                   | 17.00                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.72 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

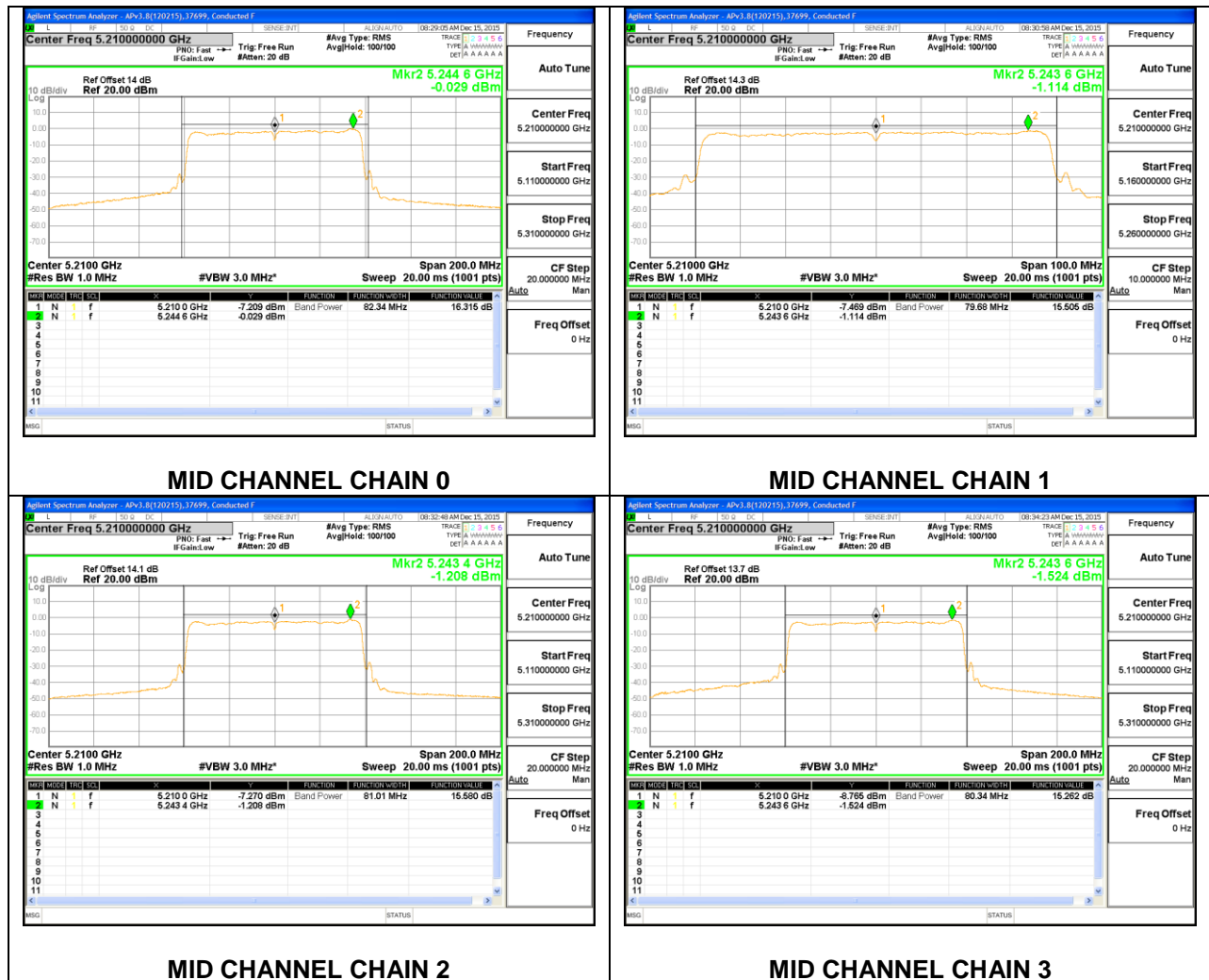
###### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 16.32                             | 15.51                             | 15.58                             | 15.26                             | 22.42                             | 30.00                   | -7.58                   |

###### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid     | 5210               | -0.03                           | -1.11                           | -1.21                           | -1.52                           | 5.81                            | 17.00                 | -11.19                |

## MID CHANNEL



#### **4Tx 1 STREAM CDD MODE**

##### **Bandwidth and Antenna Gain**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Mid     | 5210               | 3.98                                      | 9.92                                    | 30.00                   | 13.08                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.25 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

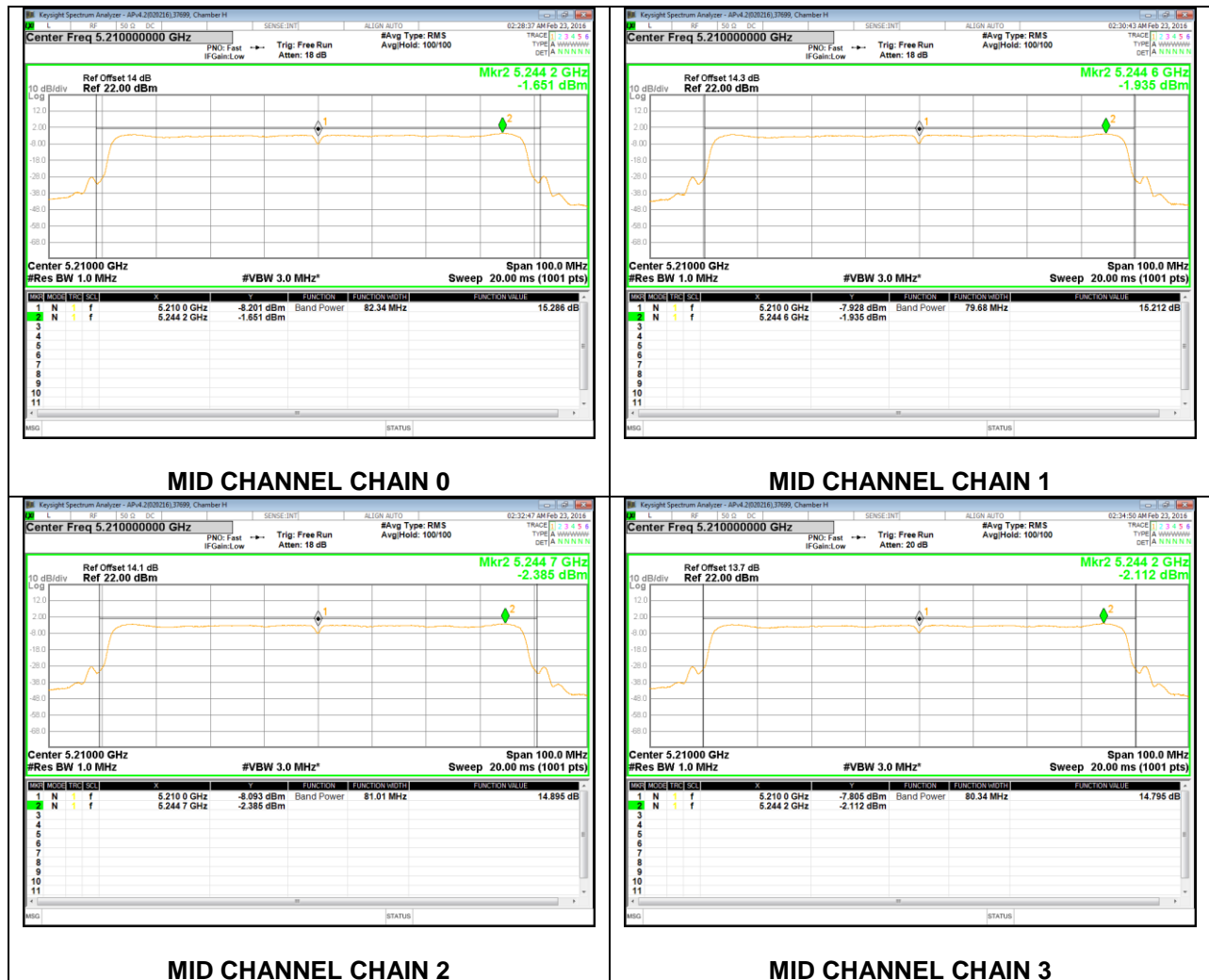
##### **Output Power Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 15.29                             | 15.21                             | 14.90                             | 14.80                             | 21.32                             | 30.00                   | -8.68                   |

##### **PSD Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid     | 5210               | -1.65                           | -1.94                           | -2.39                           | -2.11                           | 4.26                            | 13.08                 | -8.82                 |

## MID CHANNEL





#### 4Tx 3 STREAM BF MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Mid     | 5210               | 6.03                                      | 6.03                                    | 29.97                   | 16.97                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.65 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

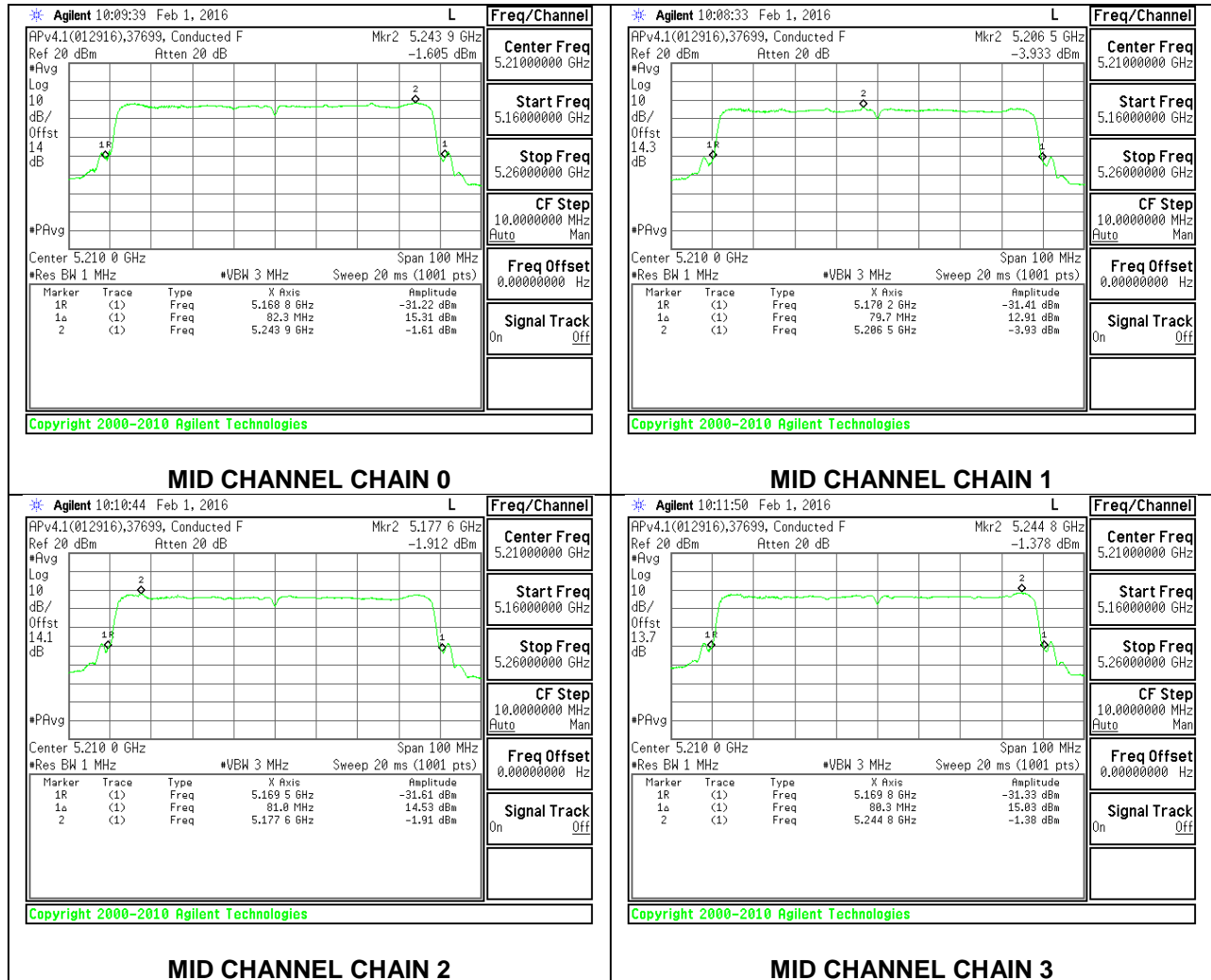
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 15.31                             | 12.91                             | 14.53                             | 15.03                             | 21.21                             | 29.97                   | -8.76                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid     | 5210               | -1.61                           | -3.93                           | -1.91                           | -1.38                           | 4.57                            | 16.97                 | -12.40                |

## MID CHANNEL



#### 4Tx 1 STREAM BF MODE

##### Bandwidth and Antenna Gain

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Mid     | 5210               | 9.92                                      | 9.92                                    | 26.08                   | 13.08                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.82 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

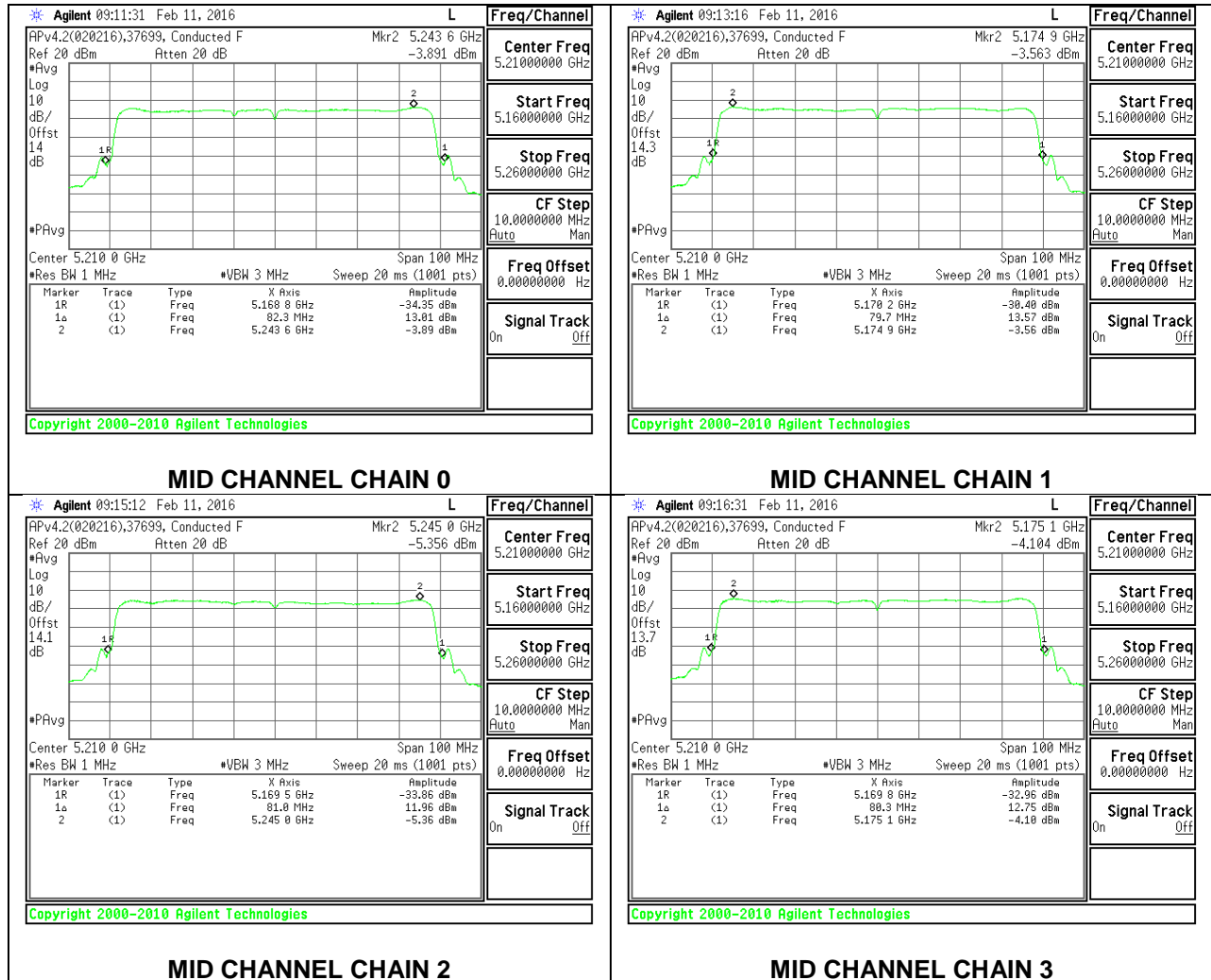
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5210               | 13.01                             | 13.57                             | 11.96                             | 12.75                             | 19.70                             | 26.08                   | -6.38                   |

##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Mid     | 5210               | -3.89                           | -3.56                           | -5.36                           | -4.10                           | 2.66                            | 13.08                 | -10.42                |

## MID CHANNEL



## 4.5.5. 802.11a MODE IN THE 5.8 GHz BAND

### 4Tx 1 STREAM CDD MODE

#### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5745               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |
| Mid     | 5785               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |
| High    | 5825               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.31 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

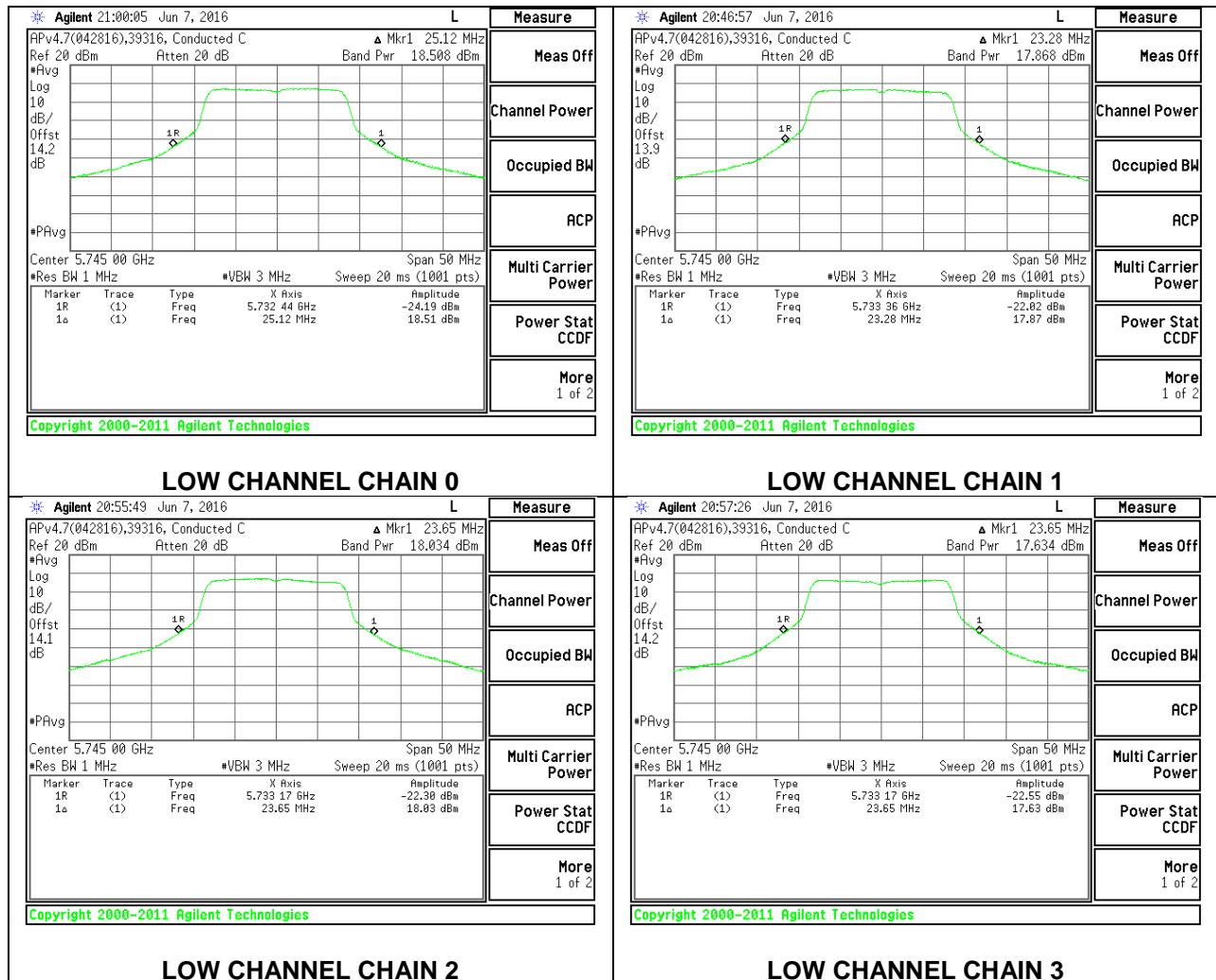
#### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 18.51                             | 17.87                             | 18.03                             | 17.63                             | 24.35                             | 30.00                   | -5.65                   |
| Mid     | 5785               | 20.09                             | 19.55                             | 19.91                             | 19.77                             | 26.17                             | 30.00                   | -3.83                   |
| High    | 5825               | 19.75                             | 19.20                             | 19.66                             | 19.28                             | 25.81                             | 30.00                   | -4.19                   |

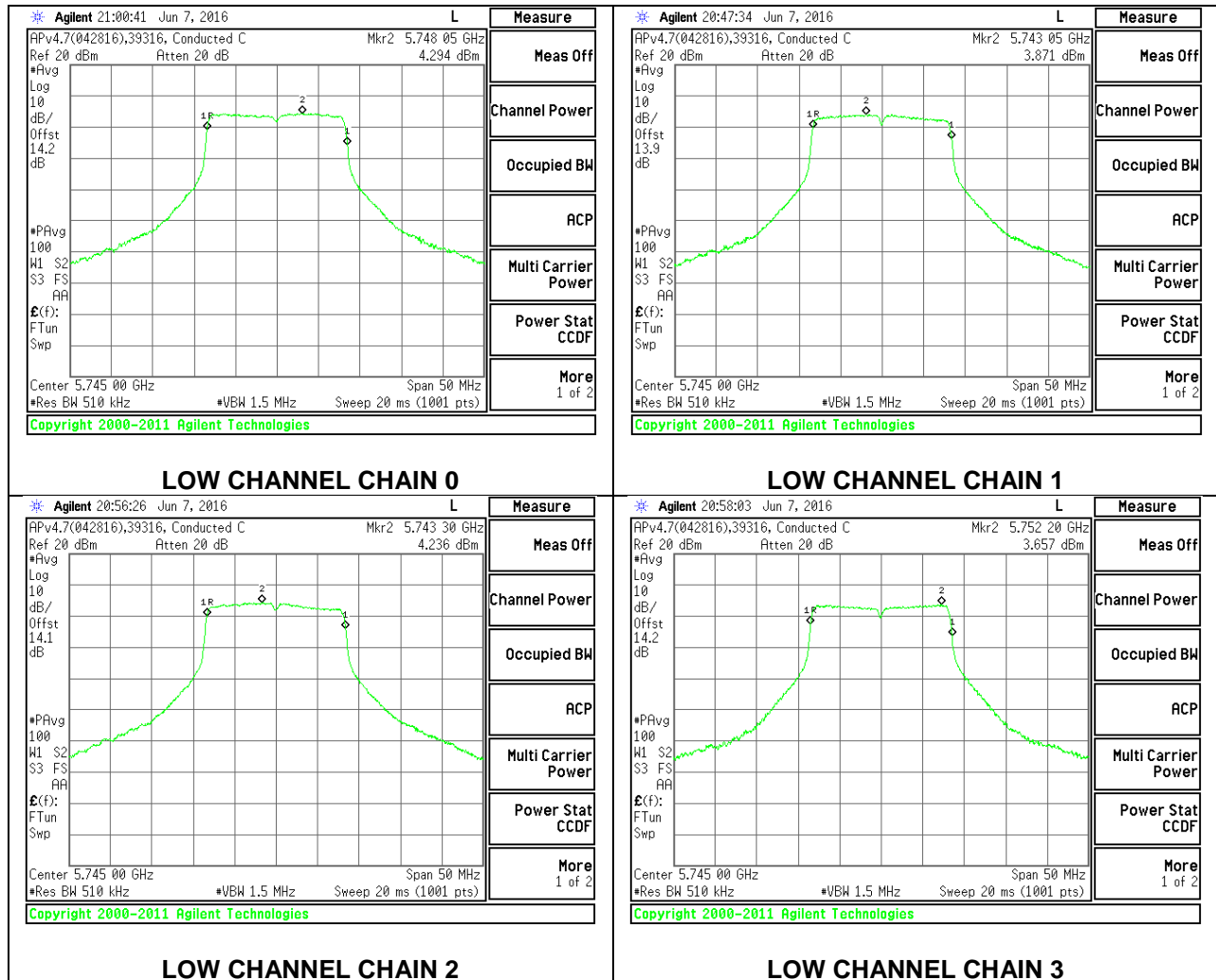
#### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5745               | 4.29                            | 3.87                            | 4.24                            | 3.66                            | 10.35                           | 26.05                 | -15.70                |
| Mid     | 5785               | 6.10                            | 5.73                            | 6.17                            | 5.98                            | 12.33                           | 26.05                 | -13.72                |
| High    | 5825               | 5.95                            | 5.20                            | 6.06                            | 5.30                            | 11.97                           | 26.05                 | -14.08                |

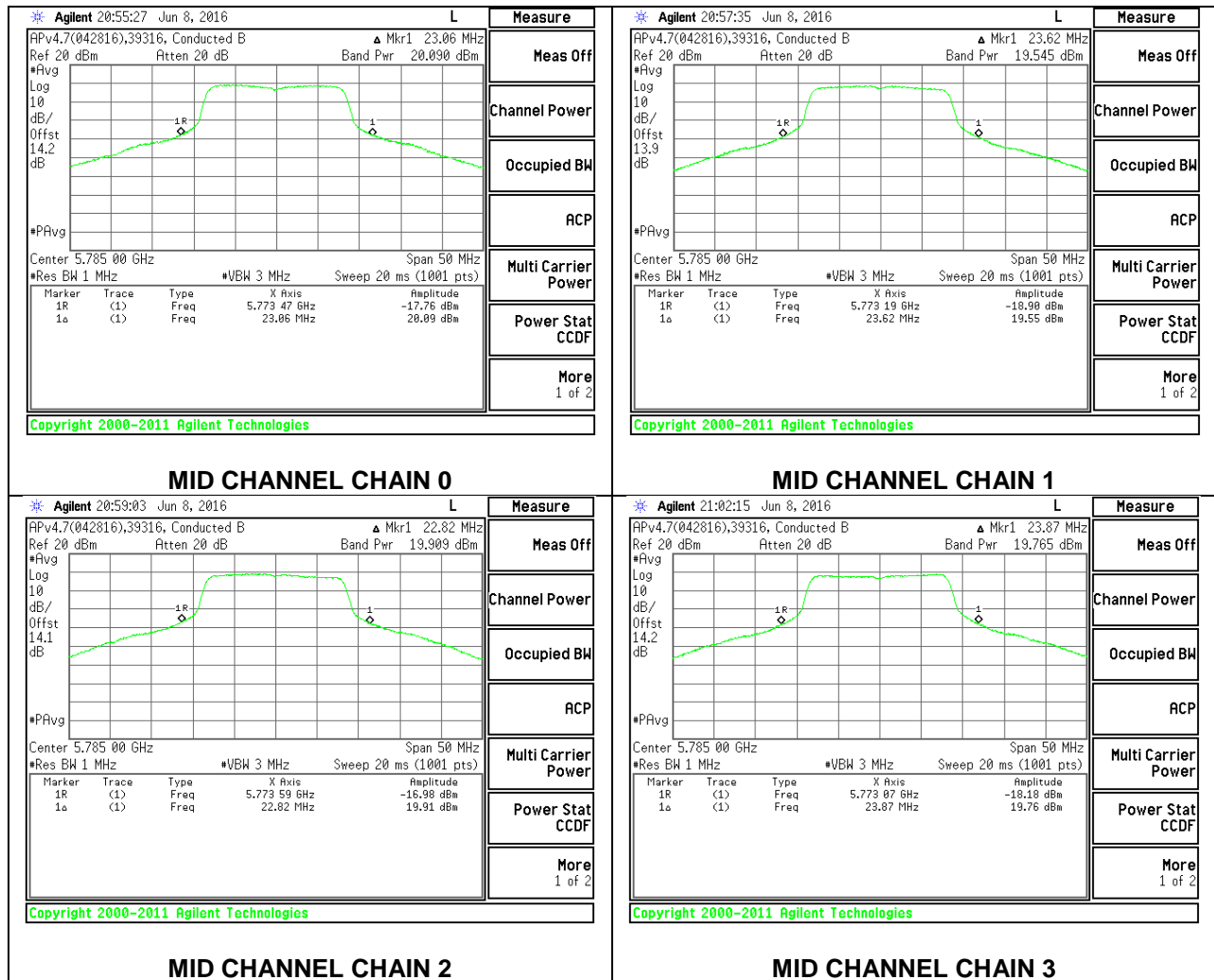
## LOW CHANNEL - POWER



## LOW CHANNEL - PSD

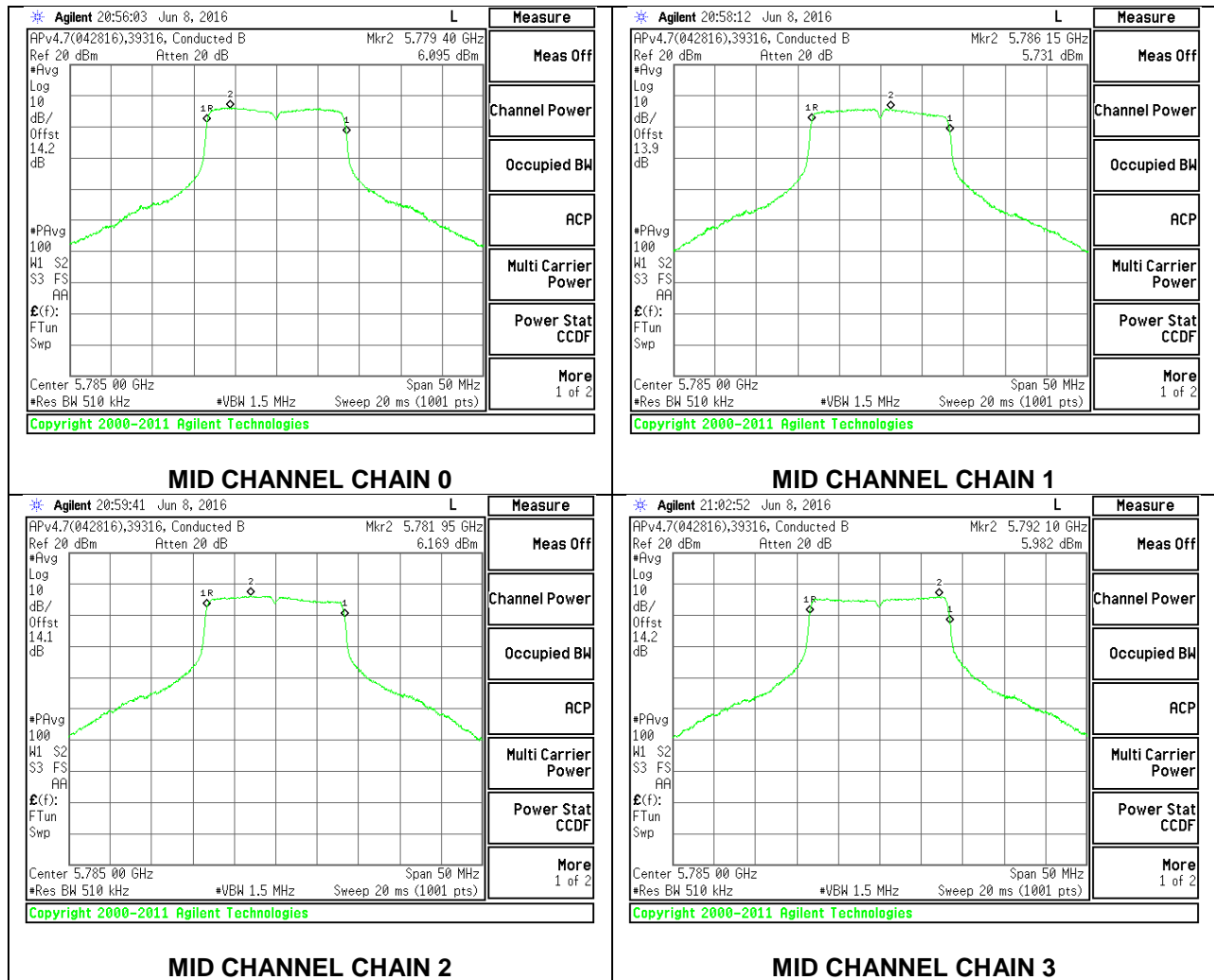


## MID CHANNEL - POWER

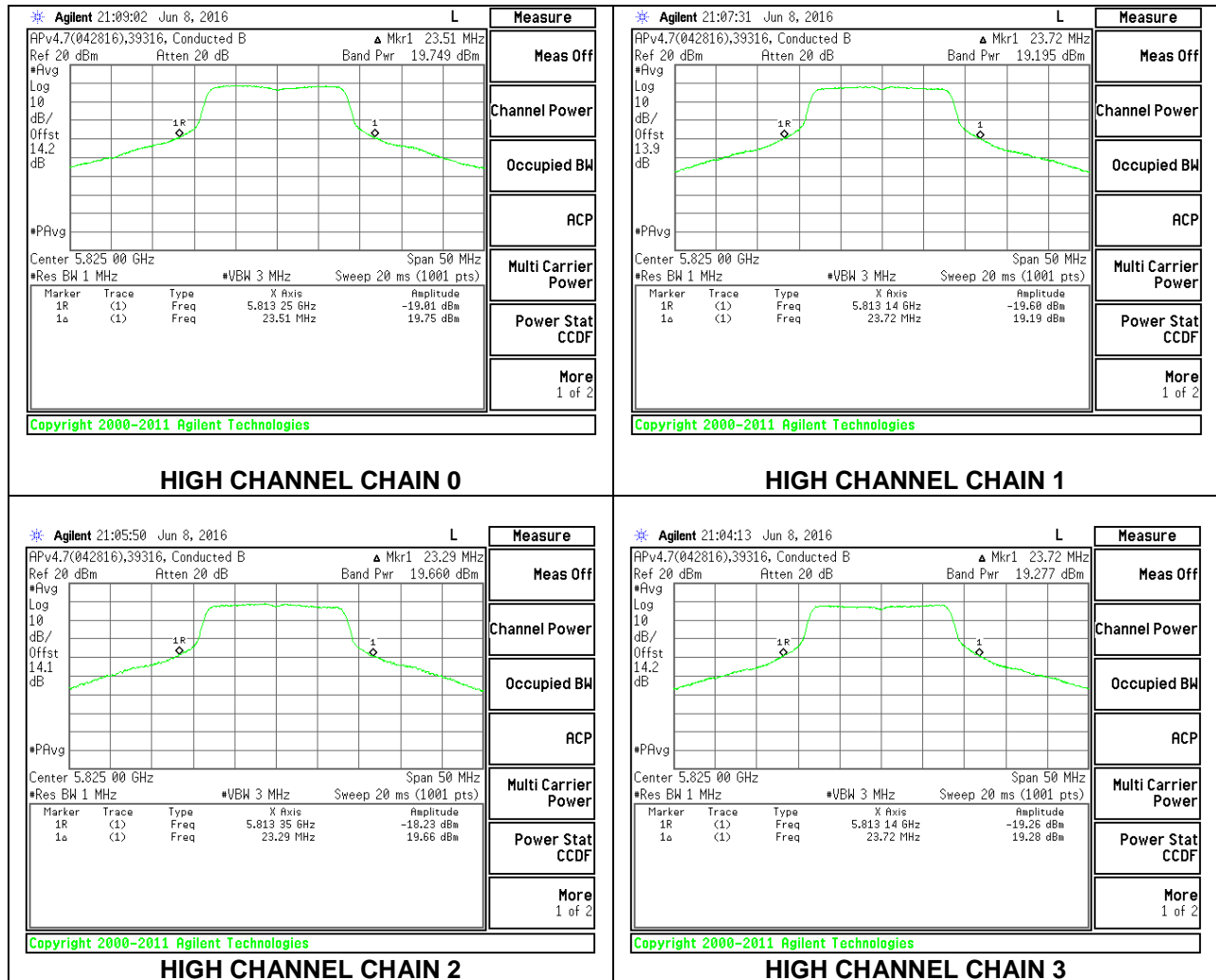




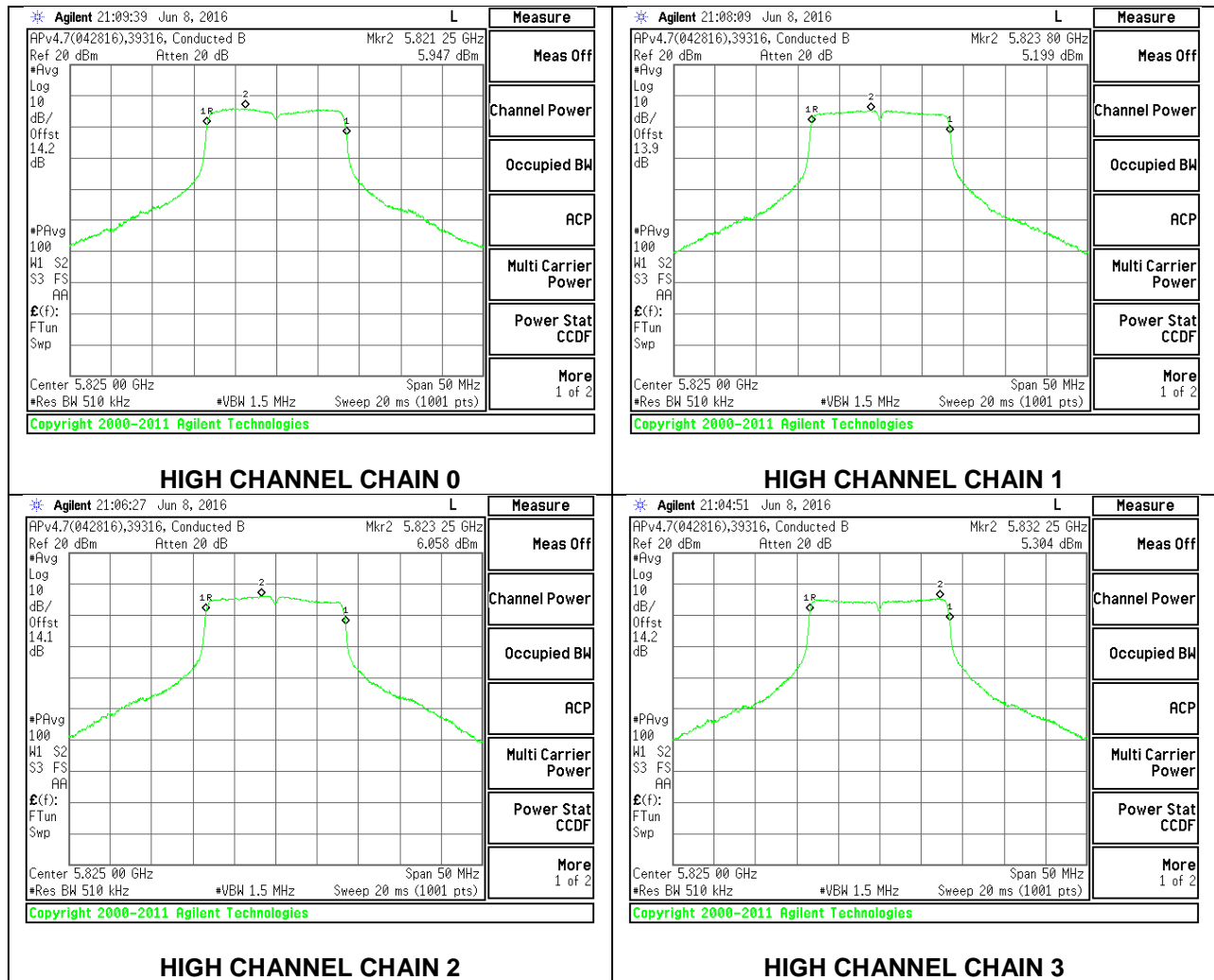
## MID CHANNEL - PSD



## HIGH CHANNEL - POWER



## HIGH CHANNEL - PSD



#### 4.5.6. 802.11ac VHT20 MODE IN THE 5.8 GHz BAND (low channel 1 stream BF)

##### 4Tx 4 STREAM CDD MODE

###### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5745               | 4.01                                      | 4.01                                    | 30.00                   | 30.00                 |
| Mid     | 5785               | 4.01                                      | 4.01                                    | 30.00                   | 30.00                 |
| High    | 5825               | 4.01                                      | 4.01                                    | 30.00                   | 30.00                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.18 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

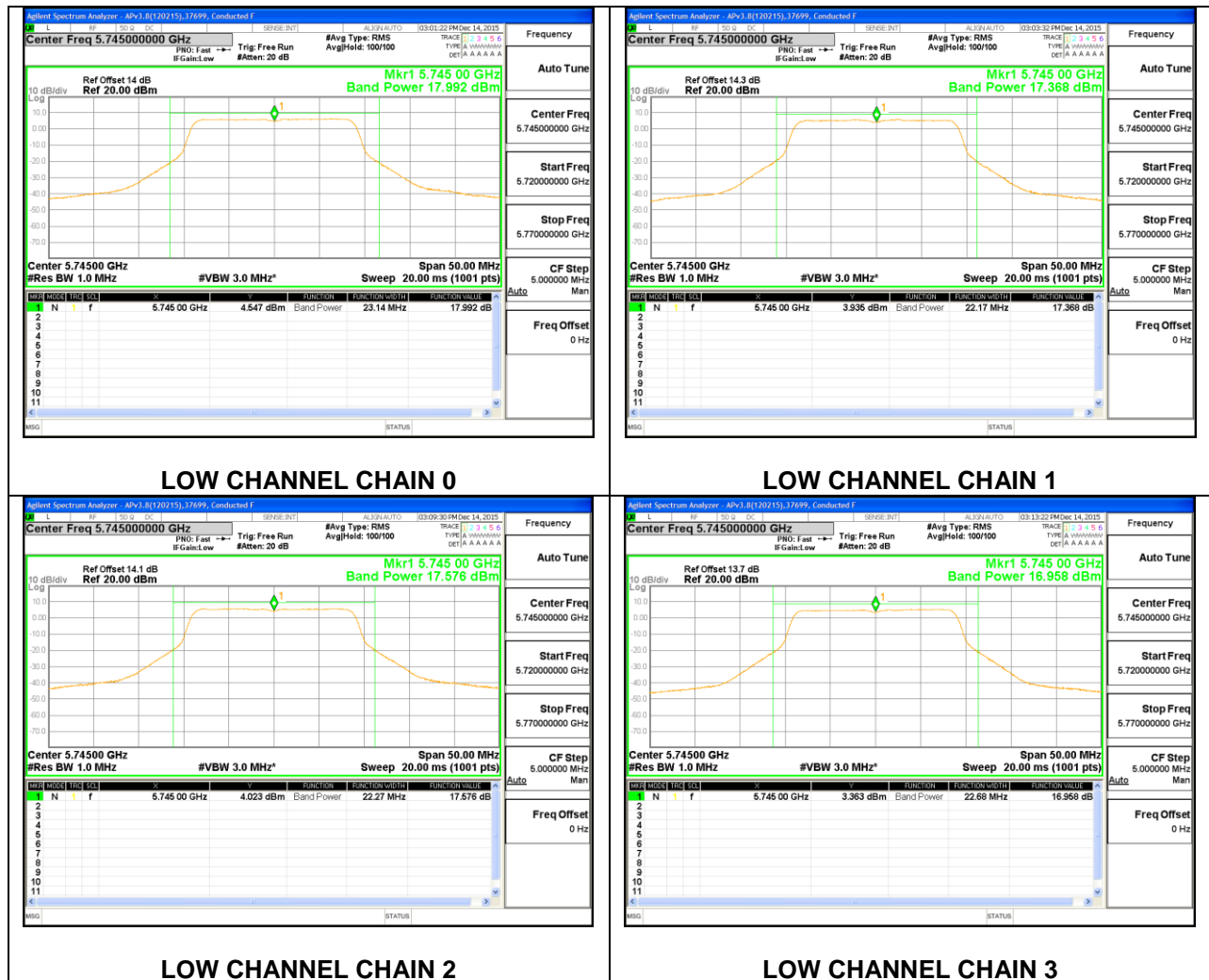
###### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.99                             | 17.37                             | 17.58                             | 16.96                             | 23.69                             | 30.00                   | -6.31                   |
| Mid     | 5785               | 20.39                             | 19.60                             | 19.94                             | 19.54                             | 26.08                             | 30.00                   | -3.92                   |
| High    | 5825               | 19.49                             | 18.78                             | 19.30                             | 18.66                             | 25.27                             | 30.00                   | -4.73                   |

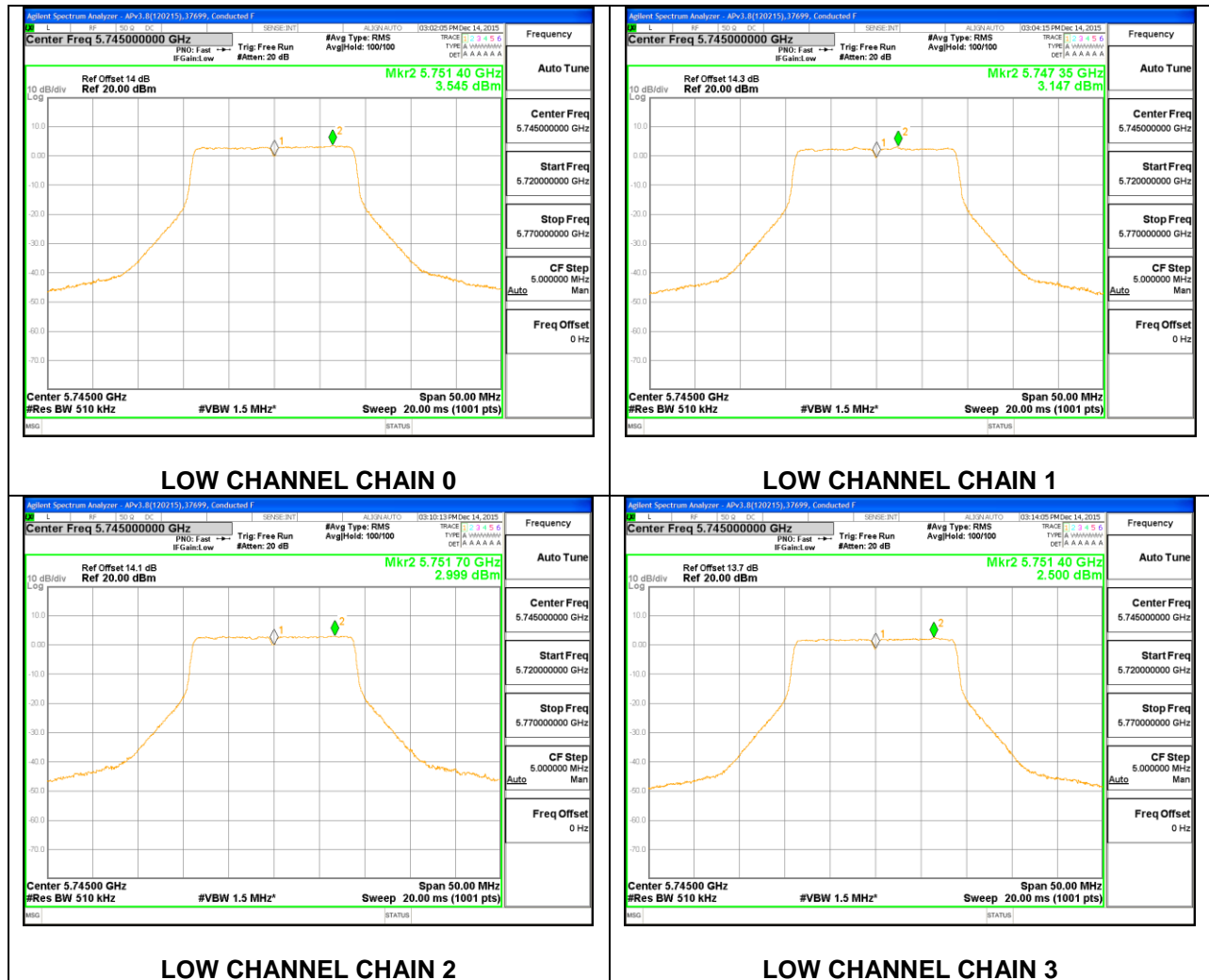
###### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5745               | 3.55                            | 3.15                            | 3.00                            | 2.50                            | 9.26                            | 30.00                 | -20.74                |
| Mid     | 5785               | 5.99                            | 5.29                            | 5.21                            | 5.30                            | 11.66                           | 30.00                 | -18.34                |
| High    | 5825               | 5.10                            | 4.71                            | 4.68                            | 4.09                            | 10.86                           | 30.00                 | -19.14                |

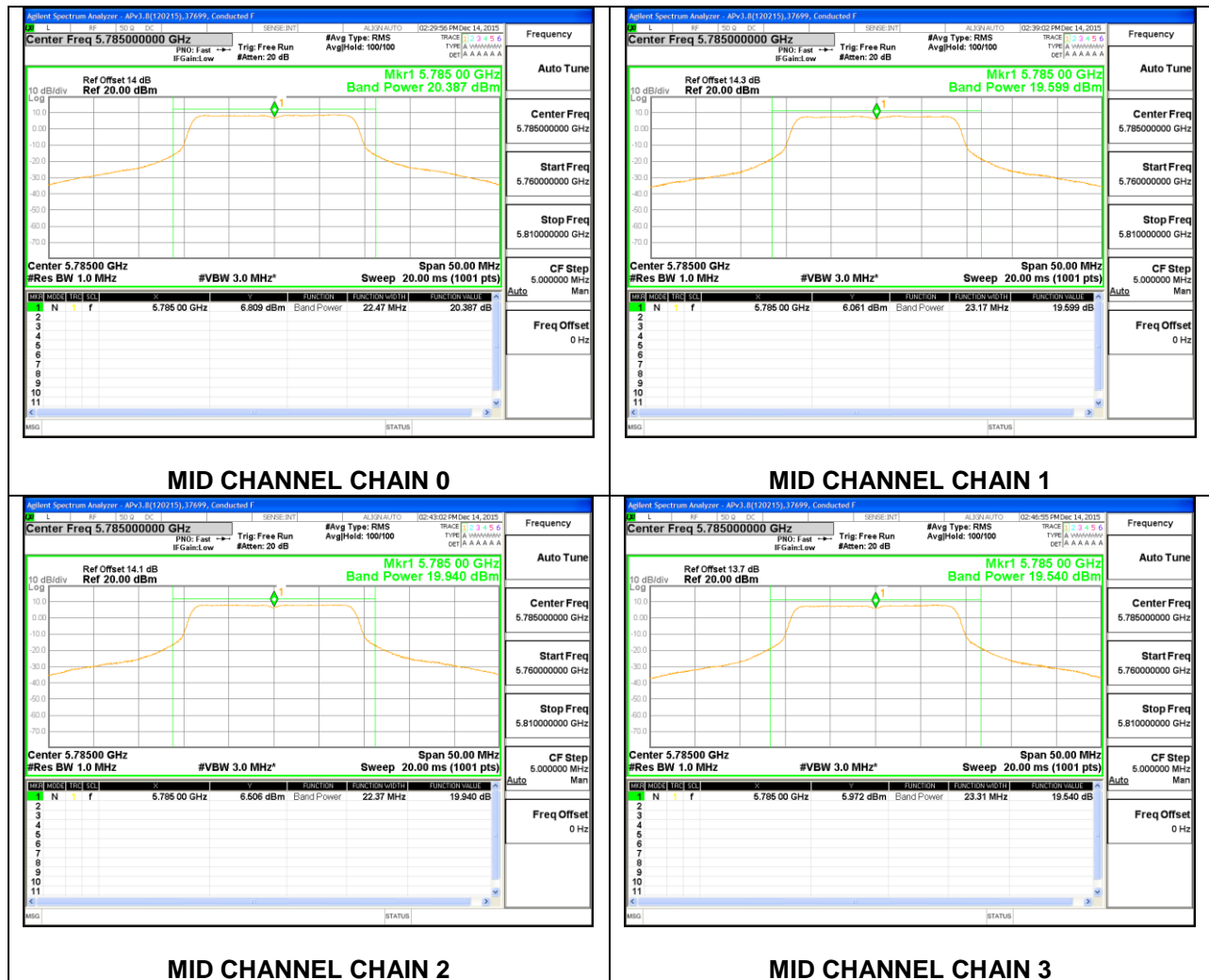
## LOW CHANNEL - POWER



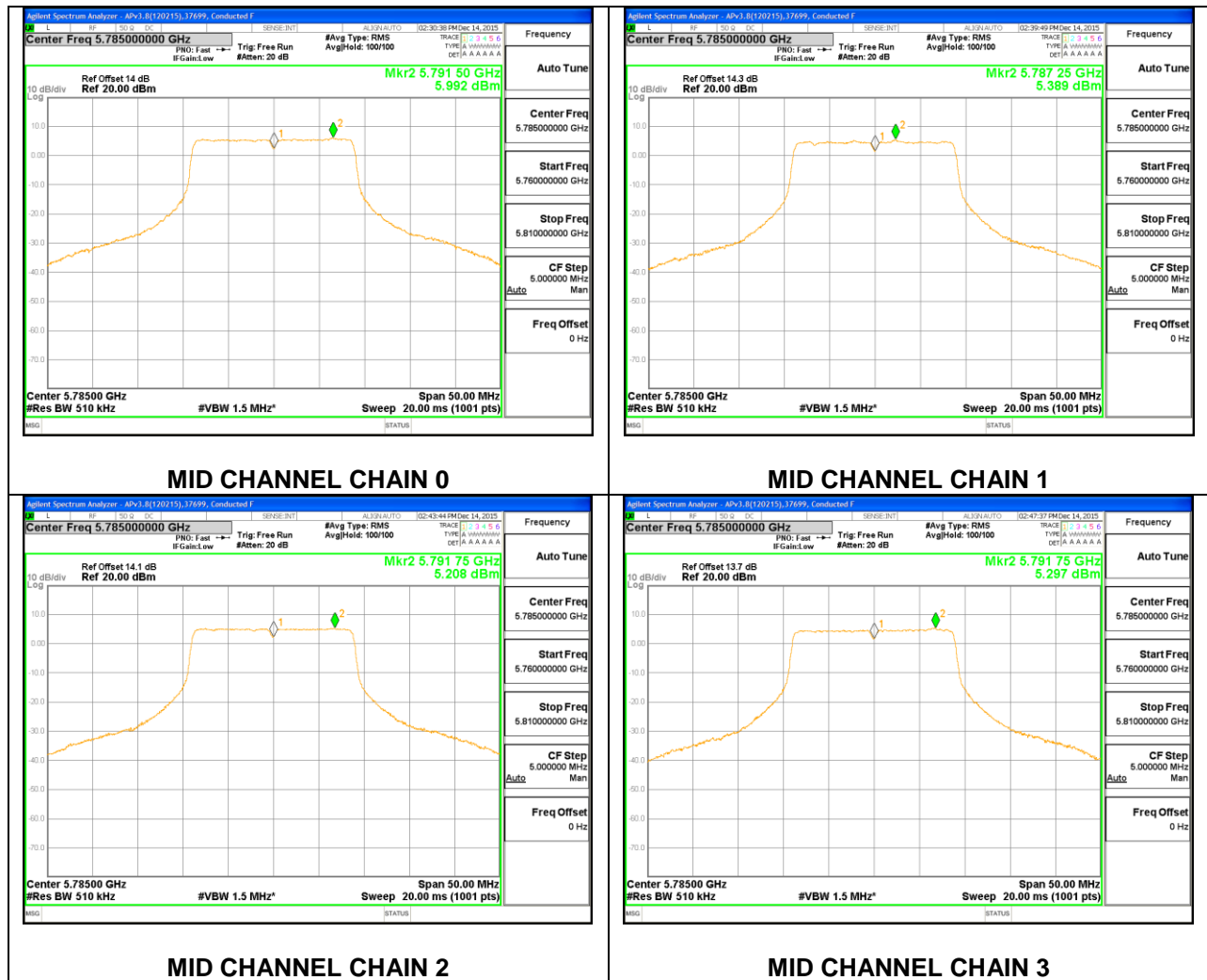
## LOW CHANNEL - PSD



## MID CHANNEL - POWER

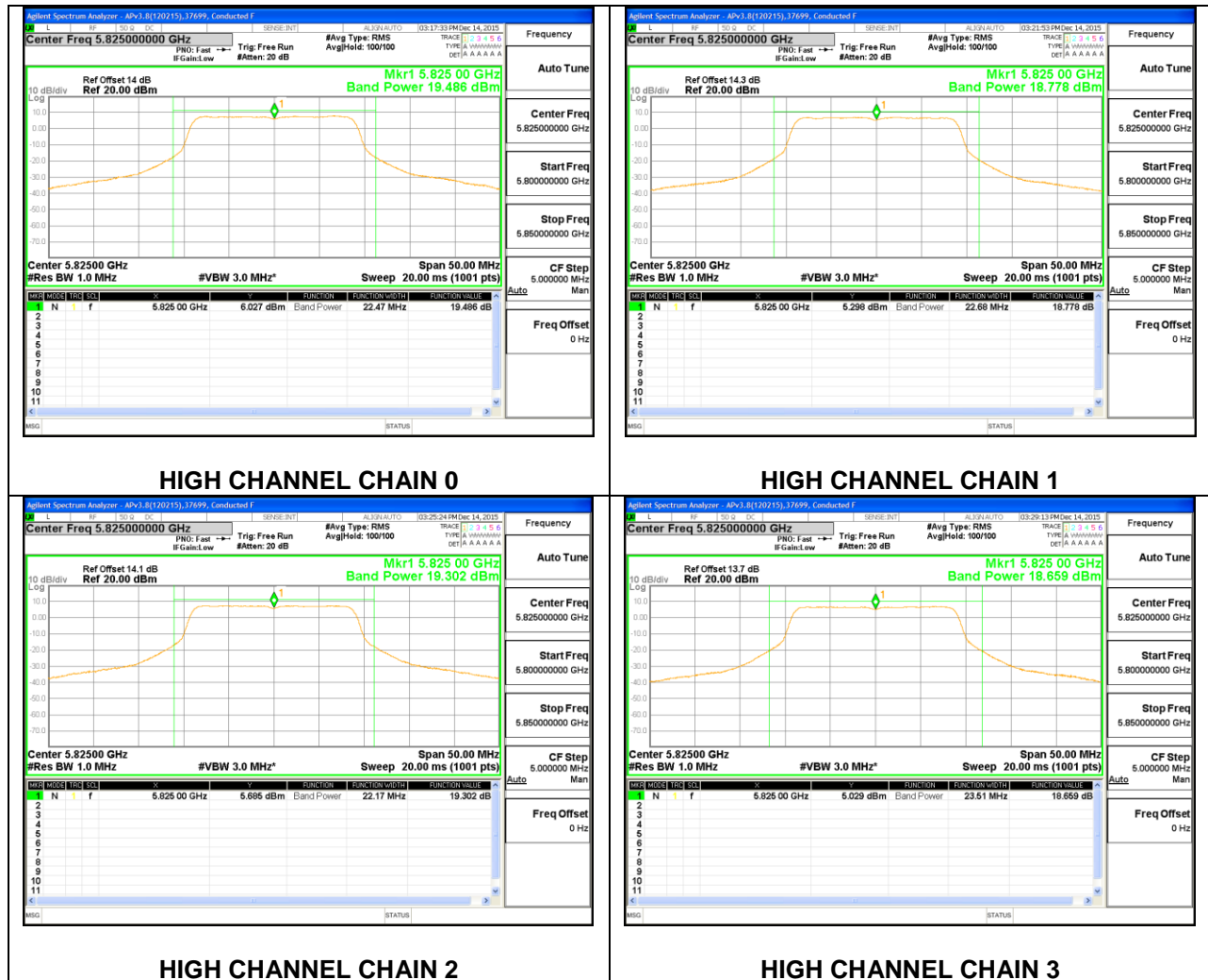


## MID CHANNEL - PSD

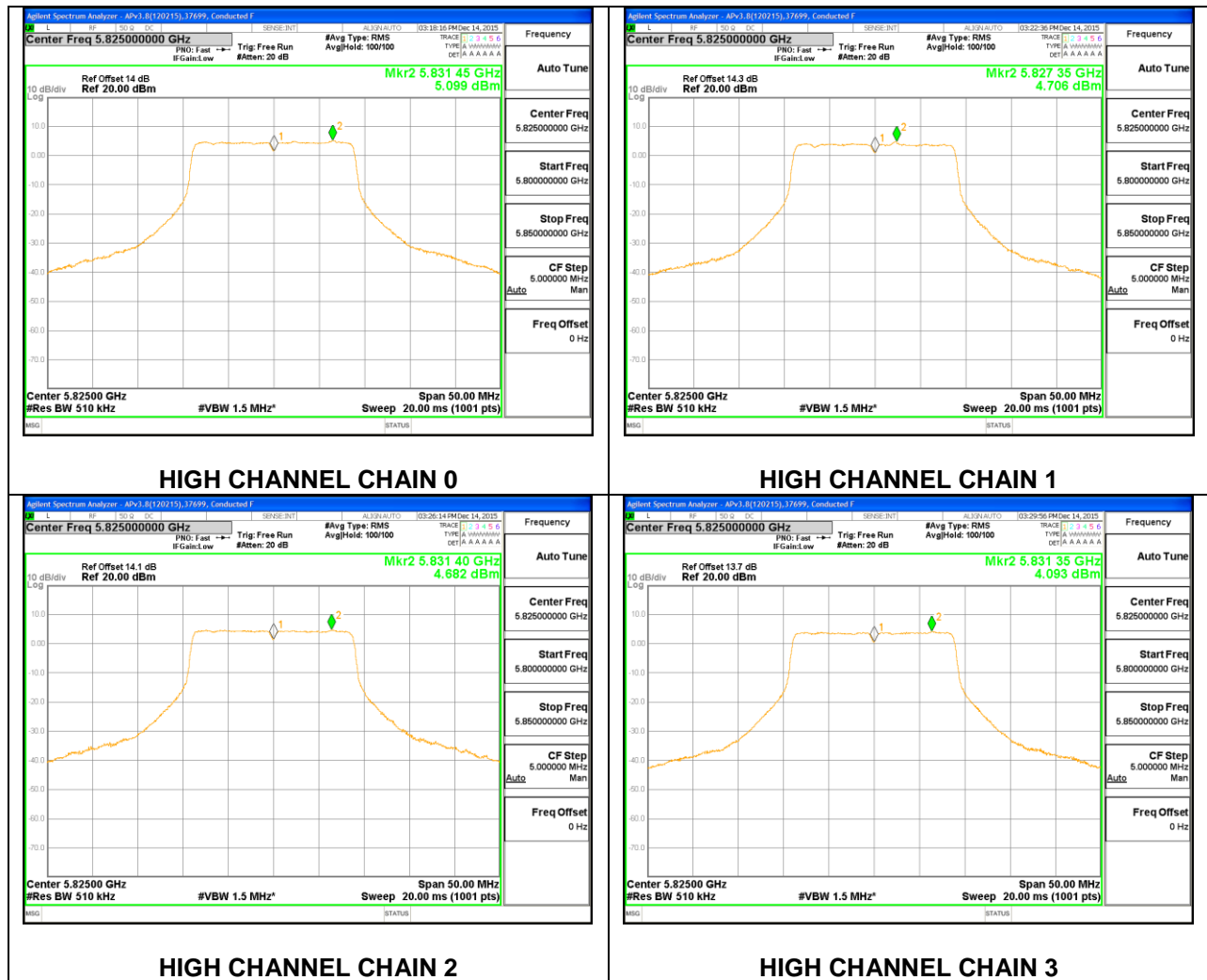




## HIGH CHANNEL - POWER



## HIGH CHANNEL - PSD



#### 4Tx 1 STREAM CDD MODE

##### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5745               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |
| Mid     | 5785               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |
| High    | 5825               | 4.01                                      | 9.95                                    | 30.00                   | 26.05                 |

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

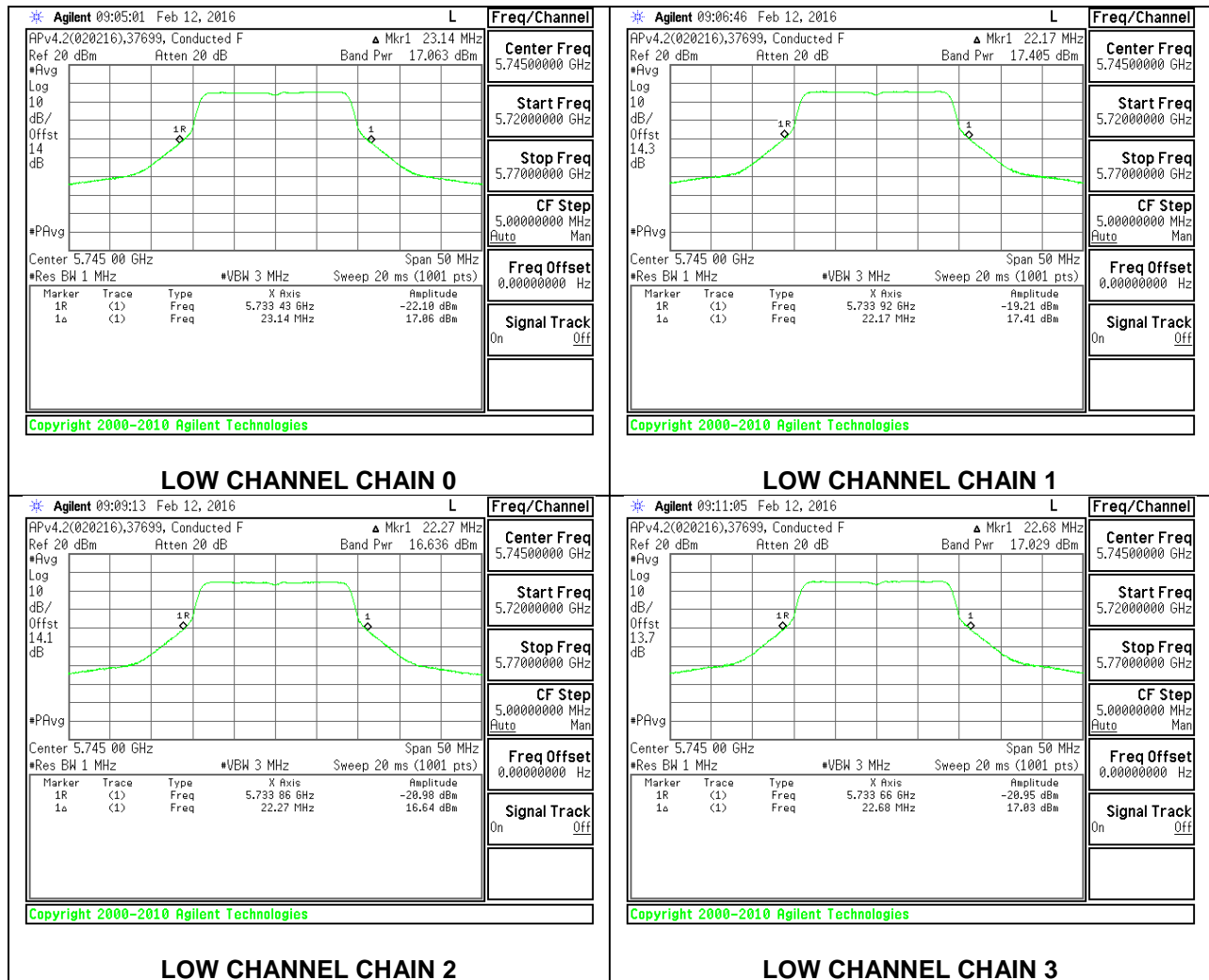
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 17.06                             | 17.41                             | 16.64                             | 17.03                             | 23.06                             | 30.00                   | -6.94                   |
| Mid     | 5785               | 19.46                             | 19.28                             | 18.53                             | 19.07                             | 25.12                             | 30.00                   | -4.88                   |
| High    | 5825               | 19.09                             | 18.89                             | 18.08                             | 18.96                             | 24.79                             | 30.00                   | -5.21                   |

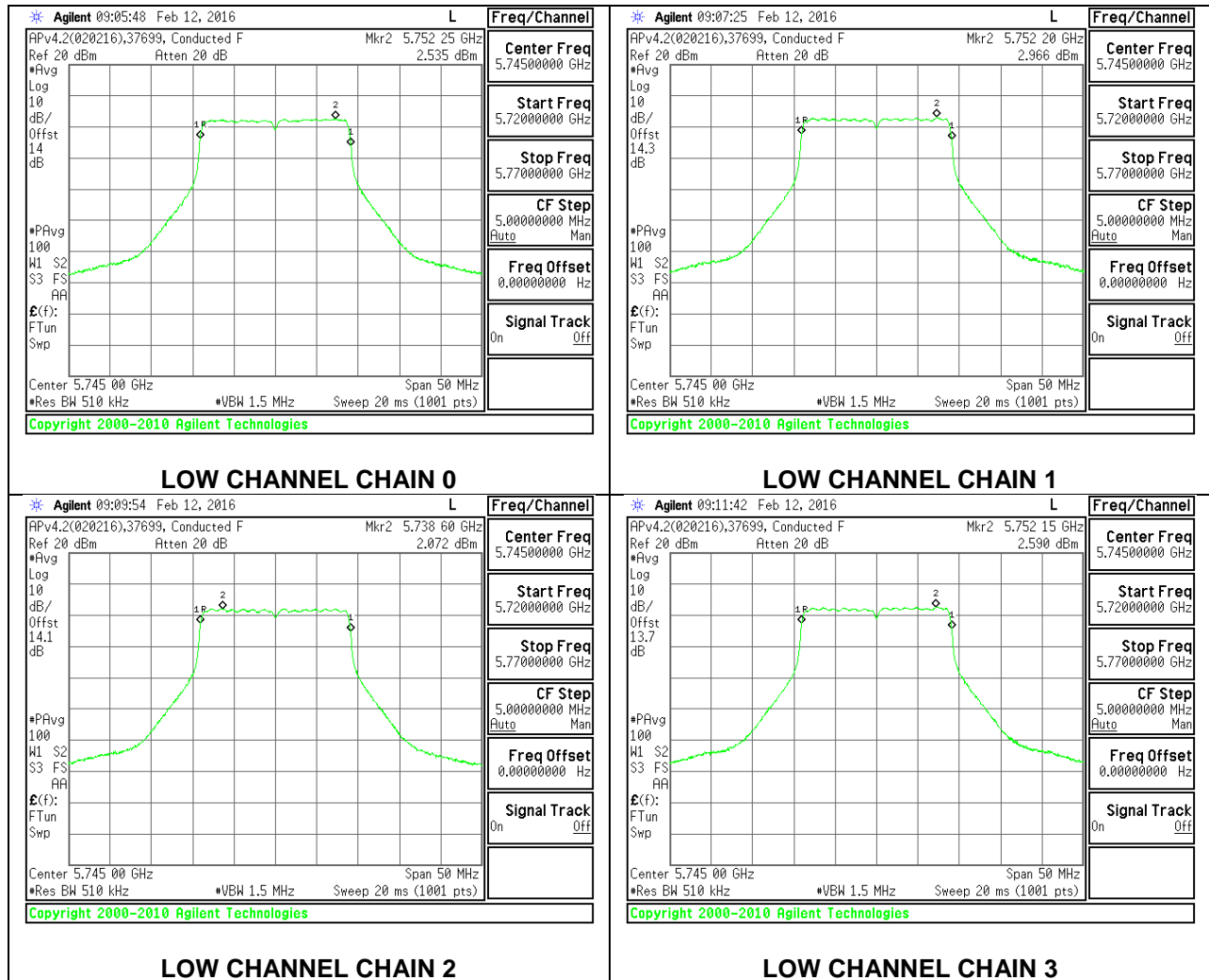
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5745               | 2.54                            | 2.97                            | 2.07                            | 2.59                            | 8.57                            | 26.05                 | -17.48                |
| Mid     | 5785               | 4.93                            | 4.77                            | 4.23                            | 4.47                            | 10.63                           | 26.05                 | -15.42                |
| High    | 5825               | 4.46                            | 4.39                            | 3.46                            | 4.40                            | 10.22                           | 26.05                 | -15.83                |

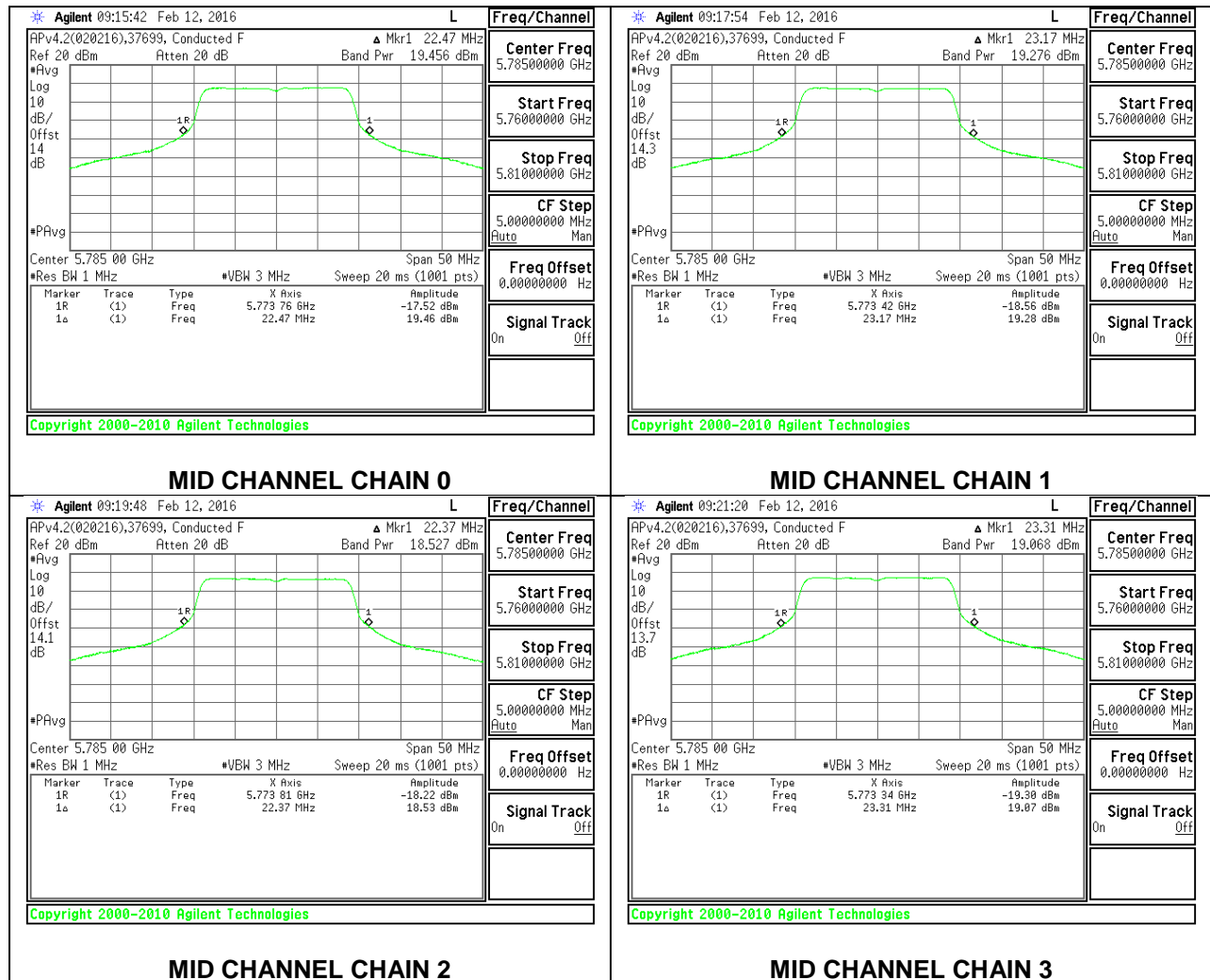
## LOW CHANNEL - POWER



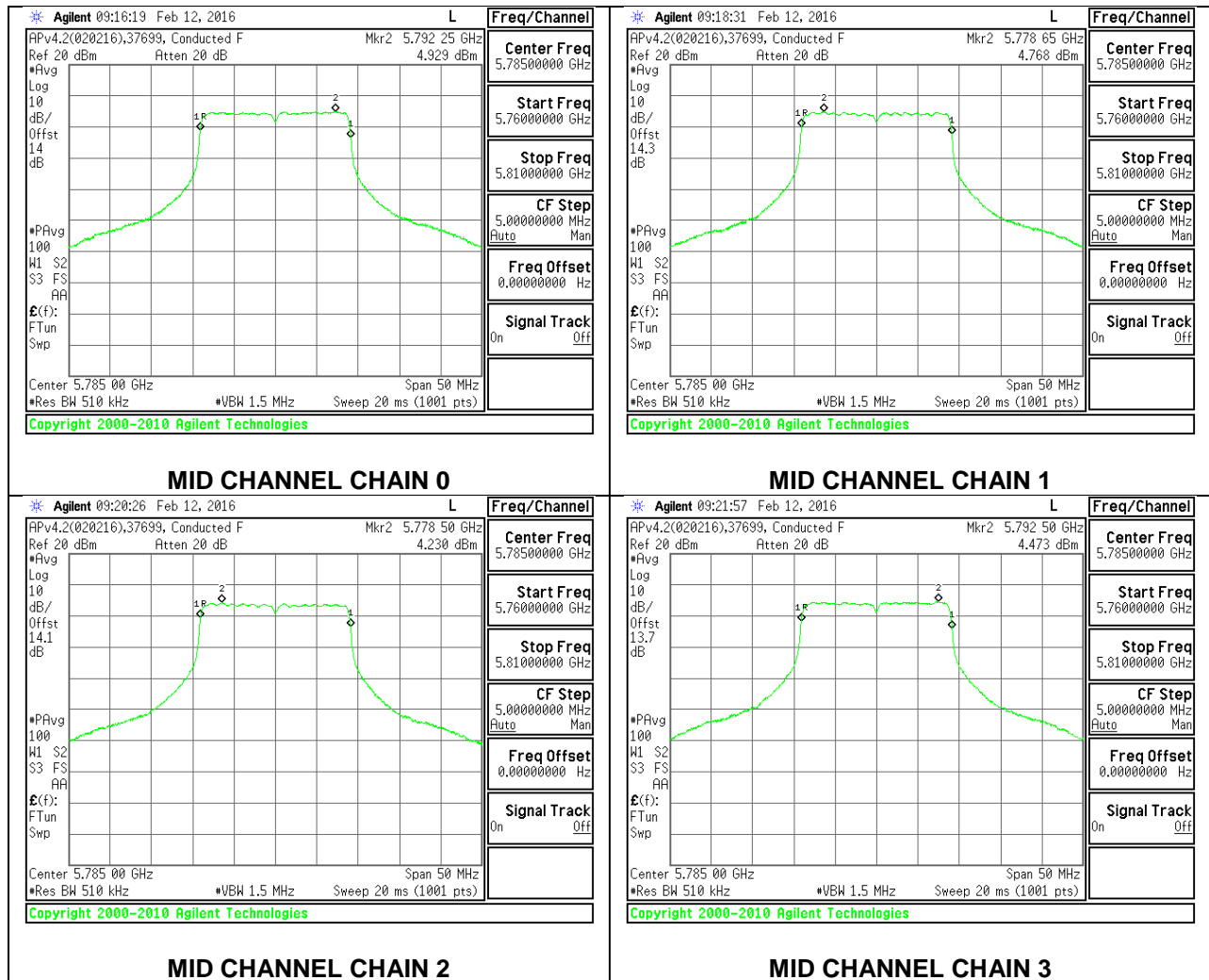
## LOW CHANNEL - PSD



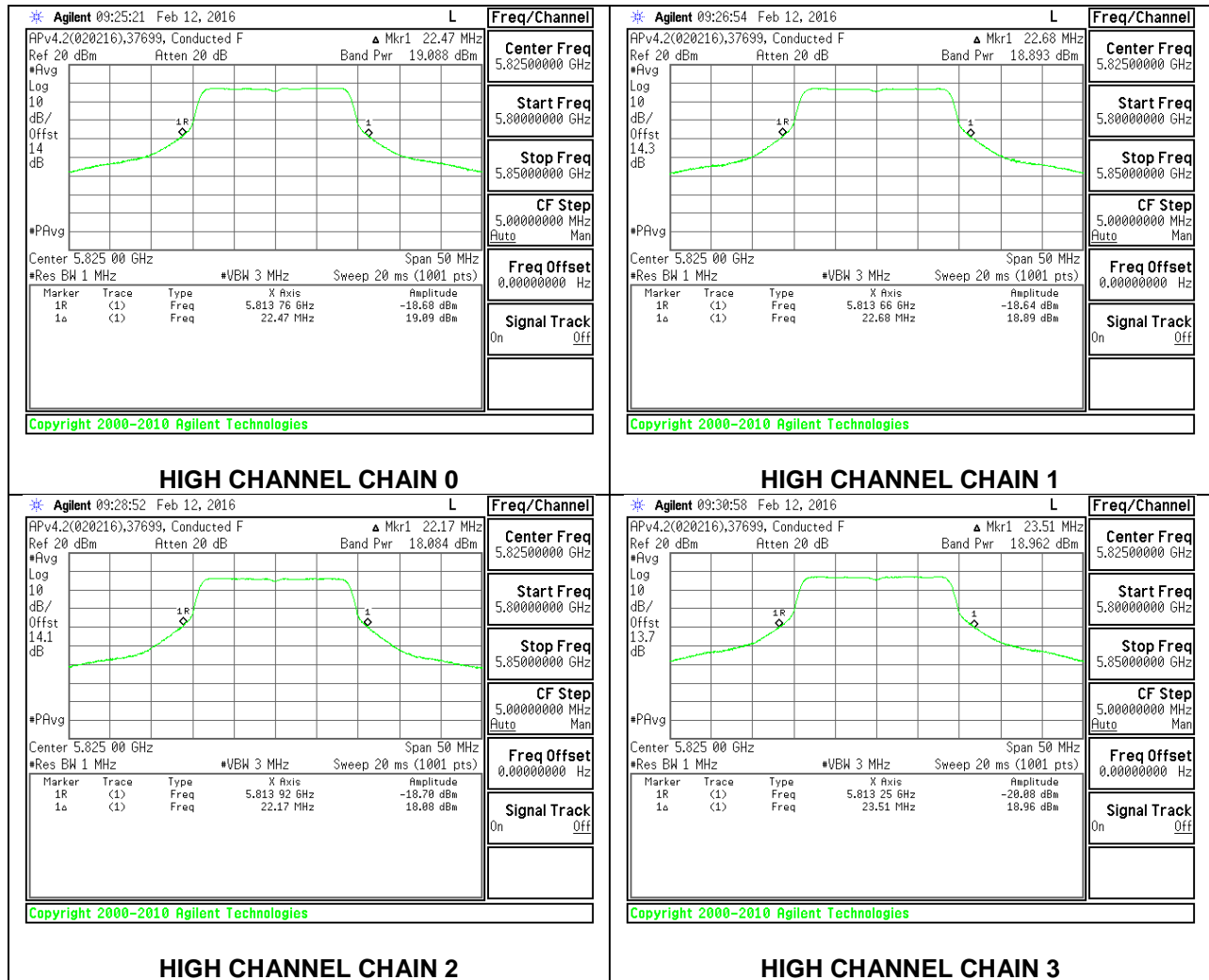
## MID CHANNEL - POWER



## MID CHANNEL - PSD

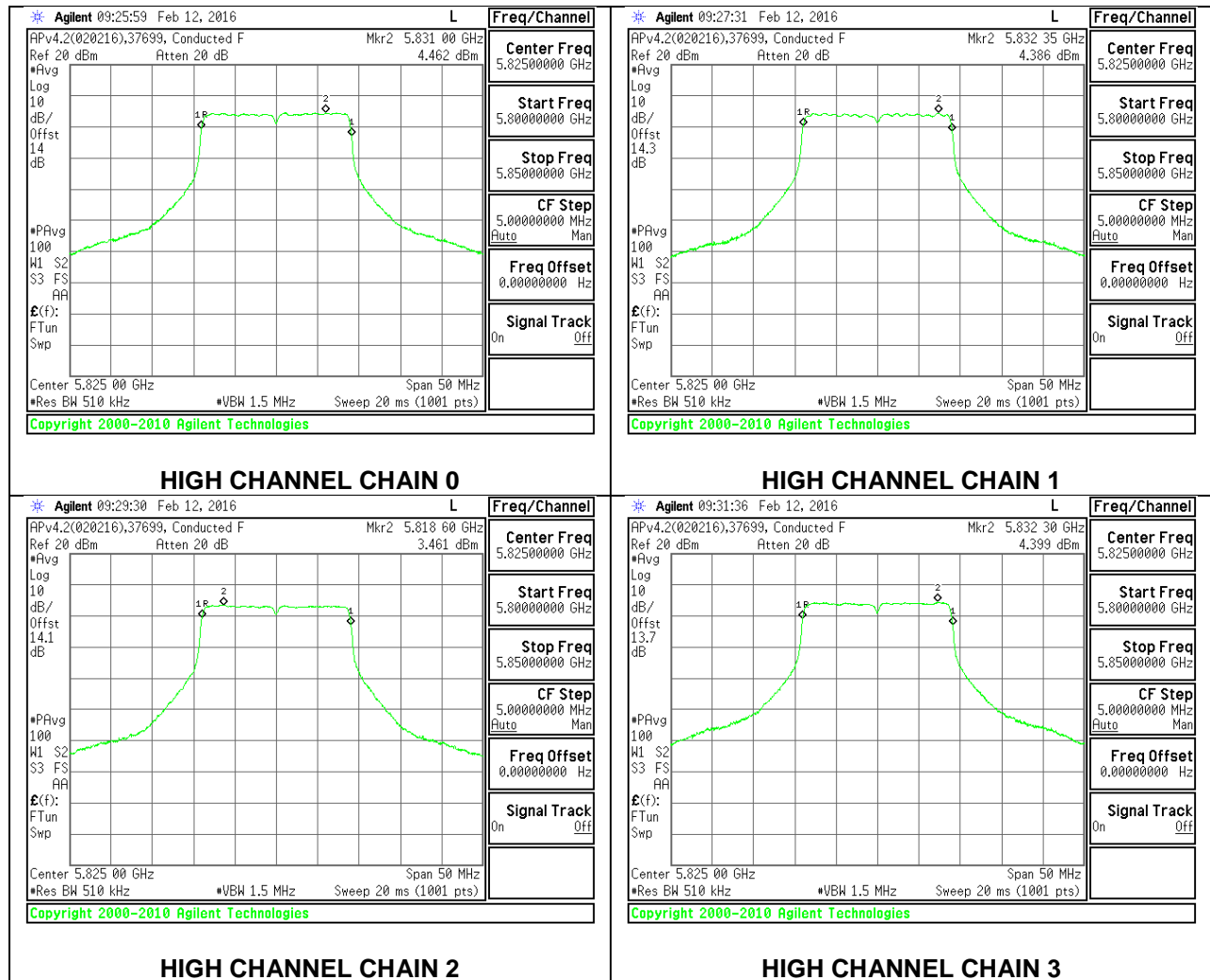


## HIGH CHANNEL - POWER





## HIGH CHANNEL - PSD



#### 4Tx 3 STREAM BF MODE

##### Antenna Gain and Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5745               | 6.07                                      | 6.07                                    | 29.93                   | 29.93                 |
| Mid     | 5785               | 6.07                                      | 6.07                                    | 29.93                   | 29.93                 |
| High    | 5825               | 6.07                                      | 6.07                                    | 29.93                   | 29.93                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.49 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

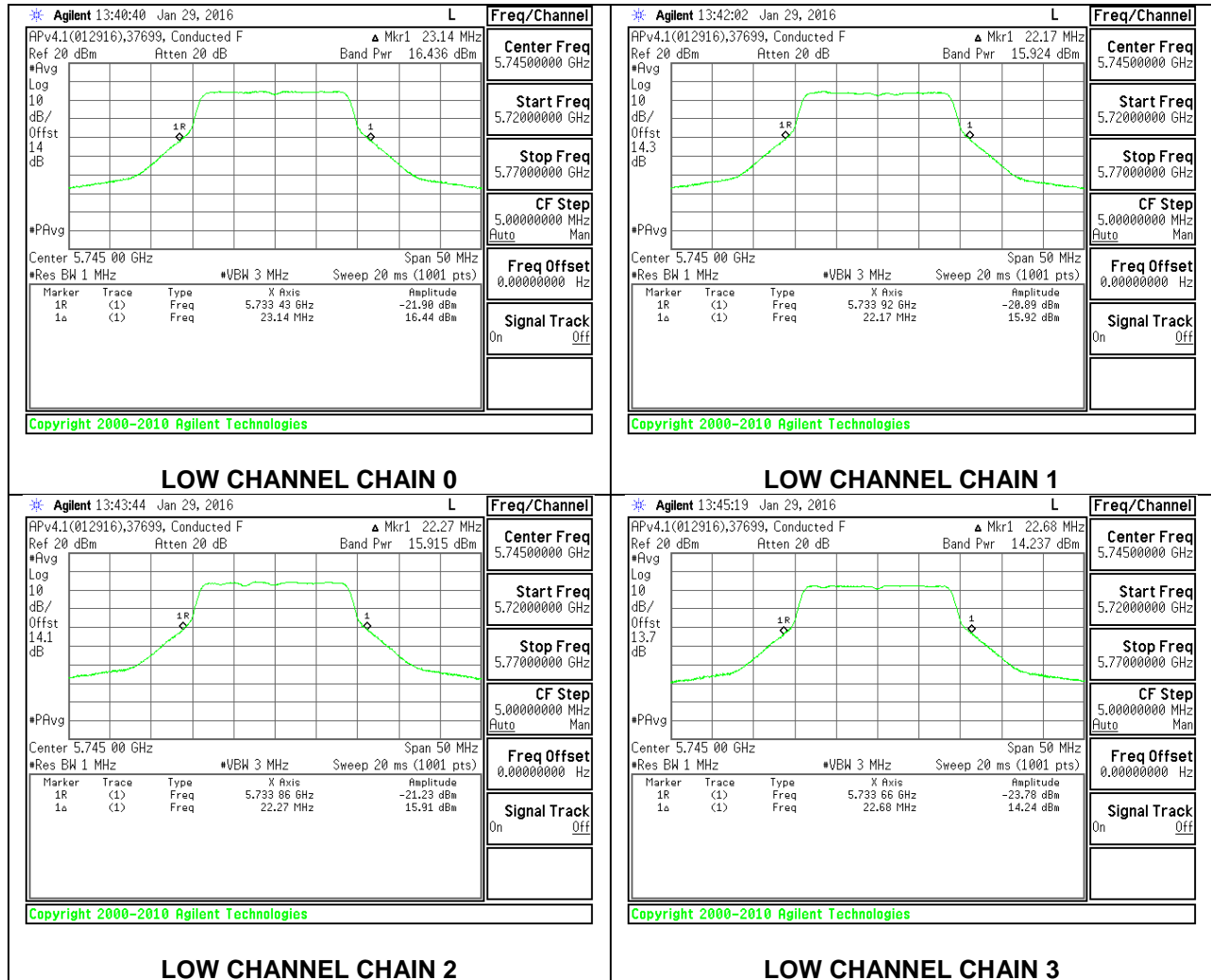
##### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 16.44                             | 15.92                             | 15.91                             | 14.24                             | 22.21                             | 29.93                   | -7.72                   |
| Mid     | 5785               | 20.68                             | 20.63                             | 19.83                             | 19.54                             | 26.71                             | 29.93                   | -3.22                   |
| High    | 5825               | 20.00                             | 19.29                             | 18.55                             | 16.75                             | 25.31                             | 29.93                   | -4.62                   |

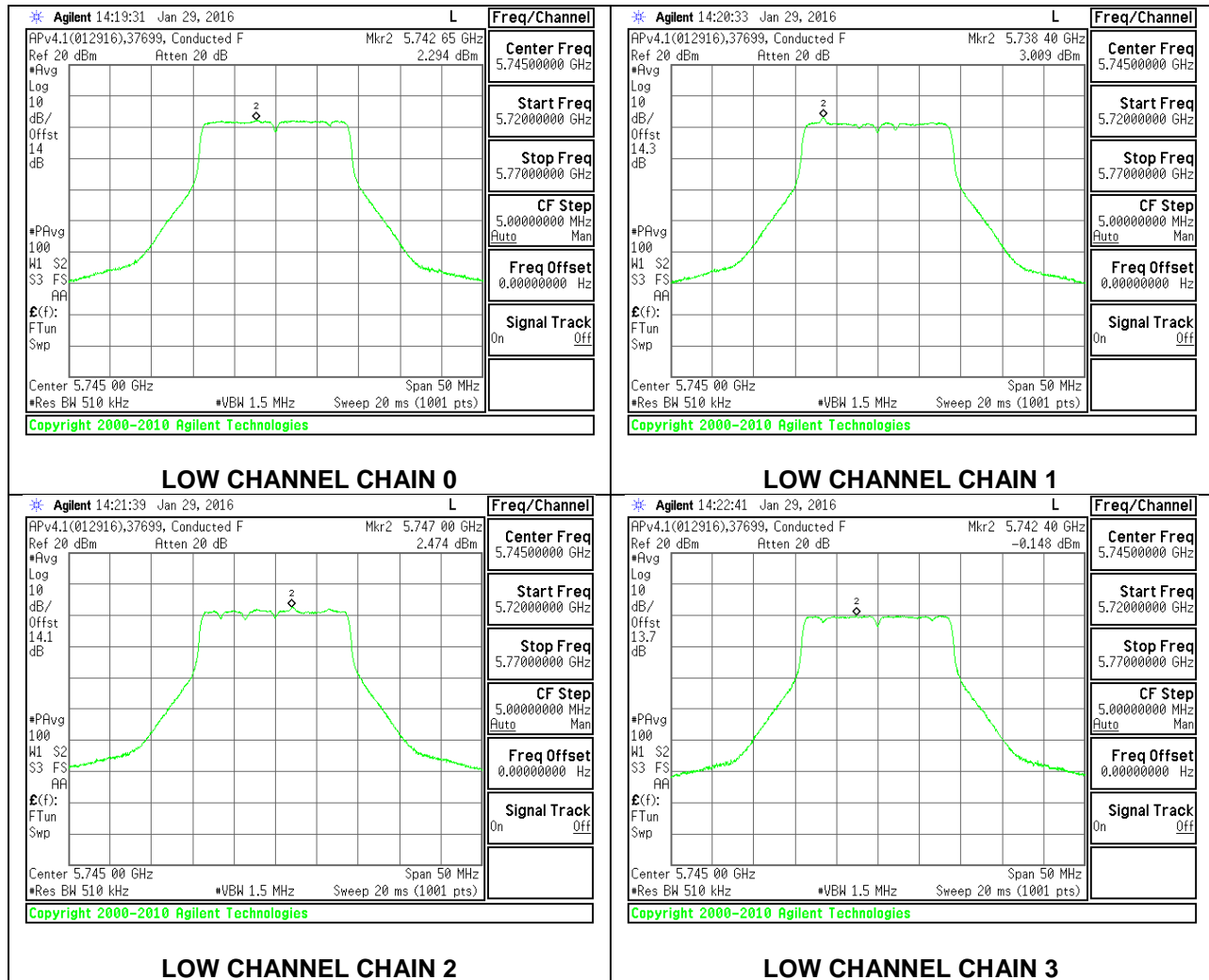
##### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5745               | 2.29                            | 3.01                            | 2.47                            | -0.15                           | 8.57                            | 29.93                 | -21.36                |
| Mid     | 5785               | 7.90                            | 6.98                            | 6.41                            | 5.08                            | 13.22                           | 29.93                 | -16.71                |
| High    | 5825               | 6.55                            | 5.93                            | 4.46                            | 2.11                            | 11.58                           | 29.93                 | -18.35                |

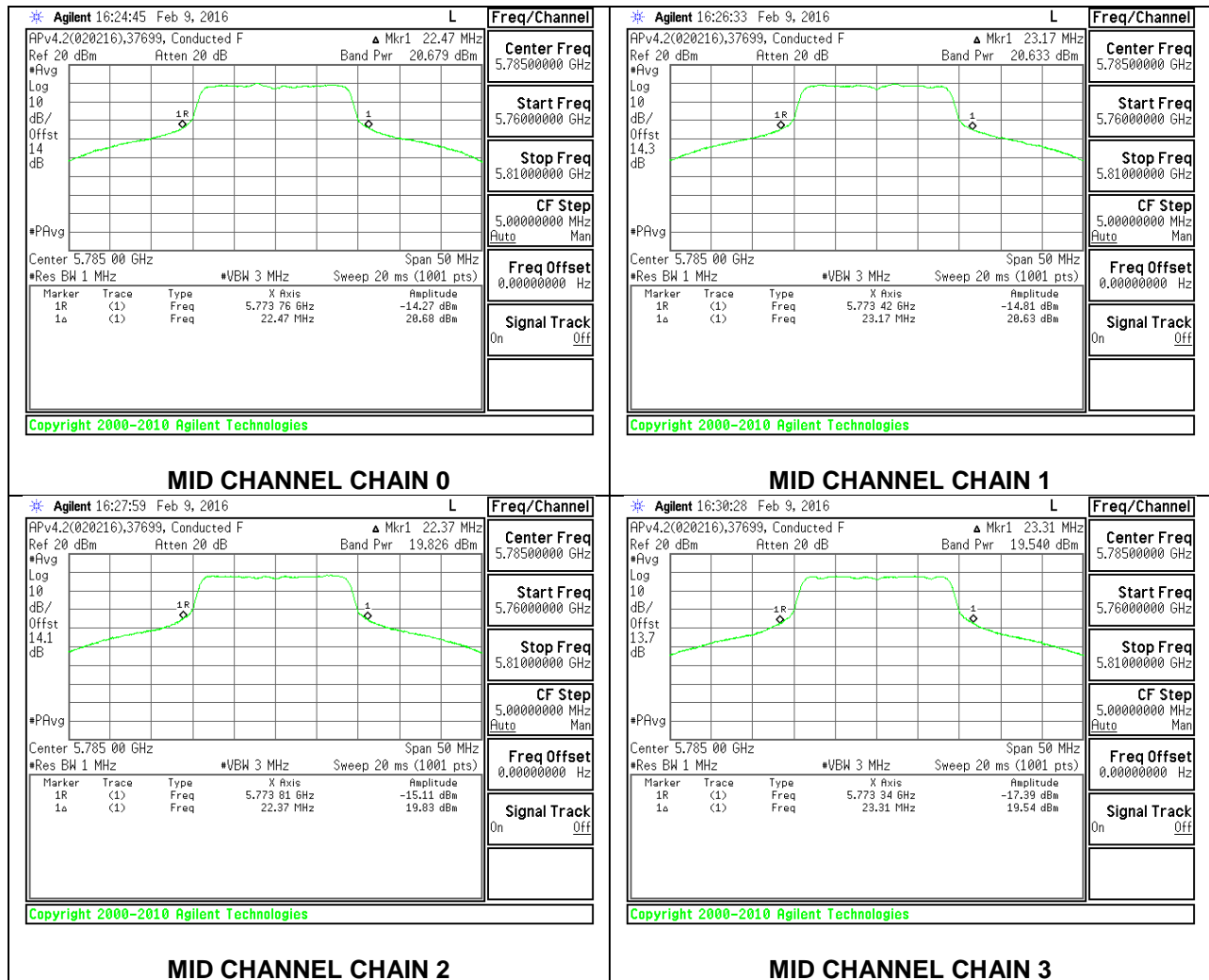
## LOW CHANNEL - POWER



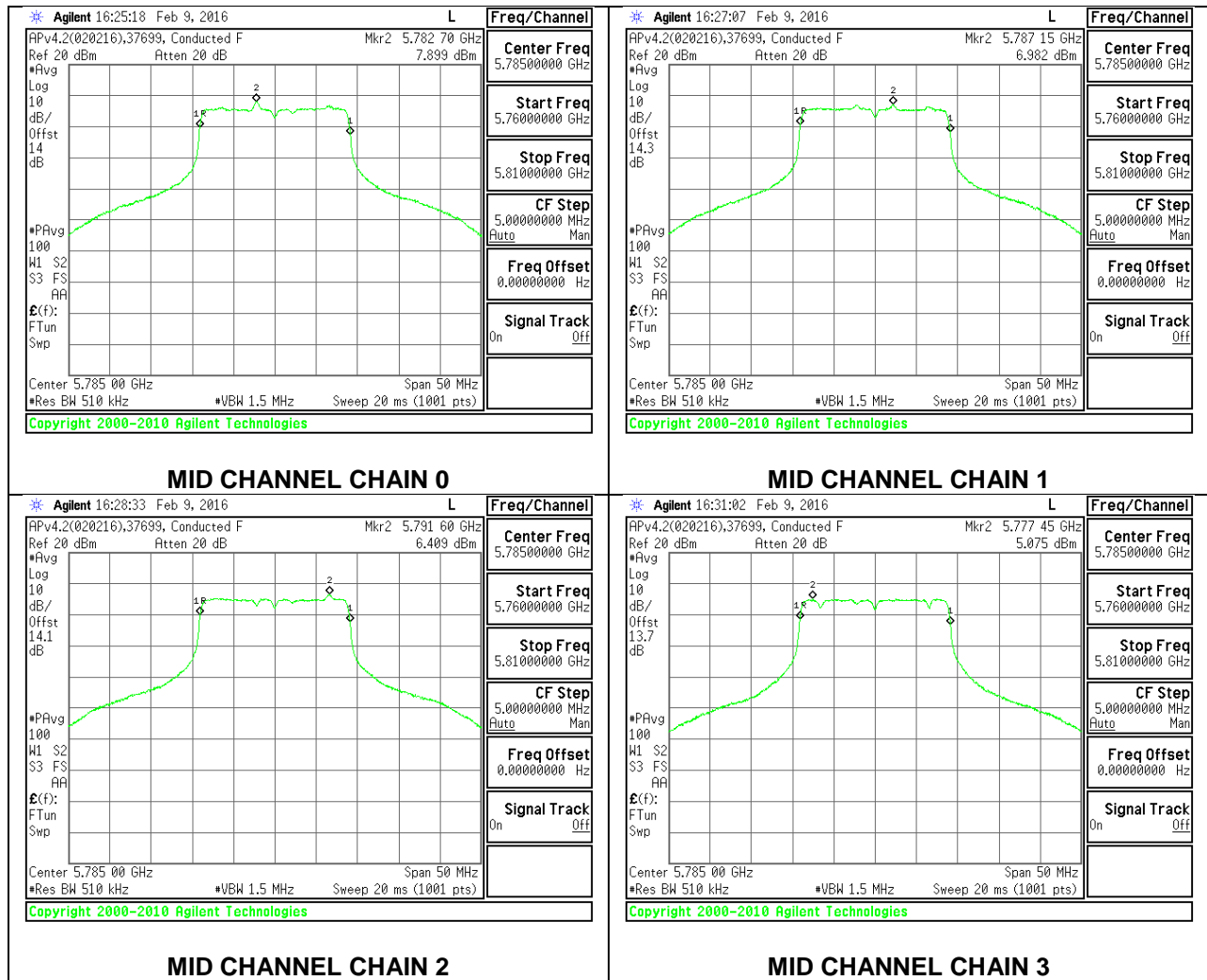
## LOW CHANNEL - PSD



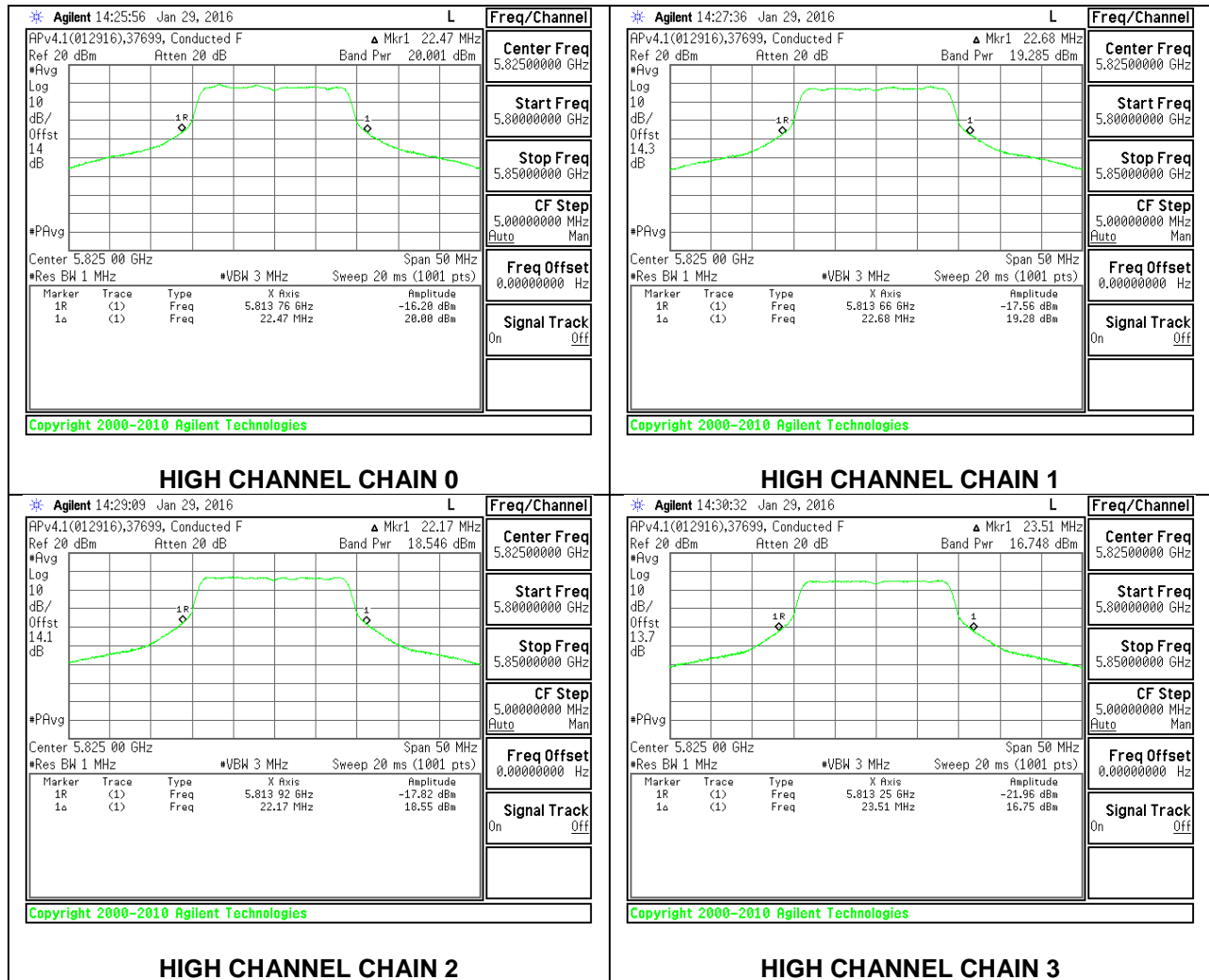
## MID CHANNEL - POWER



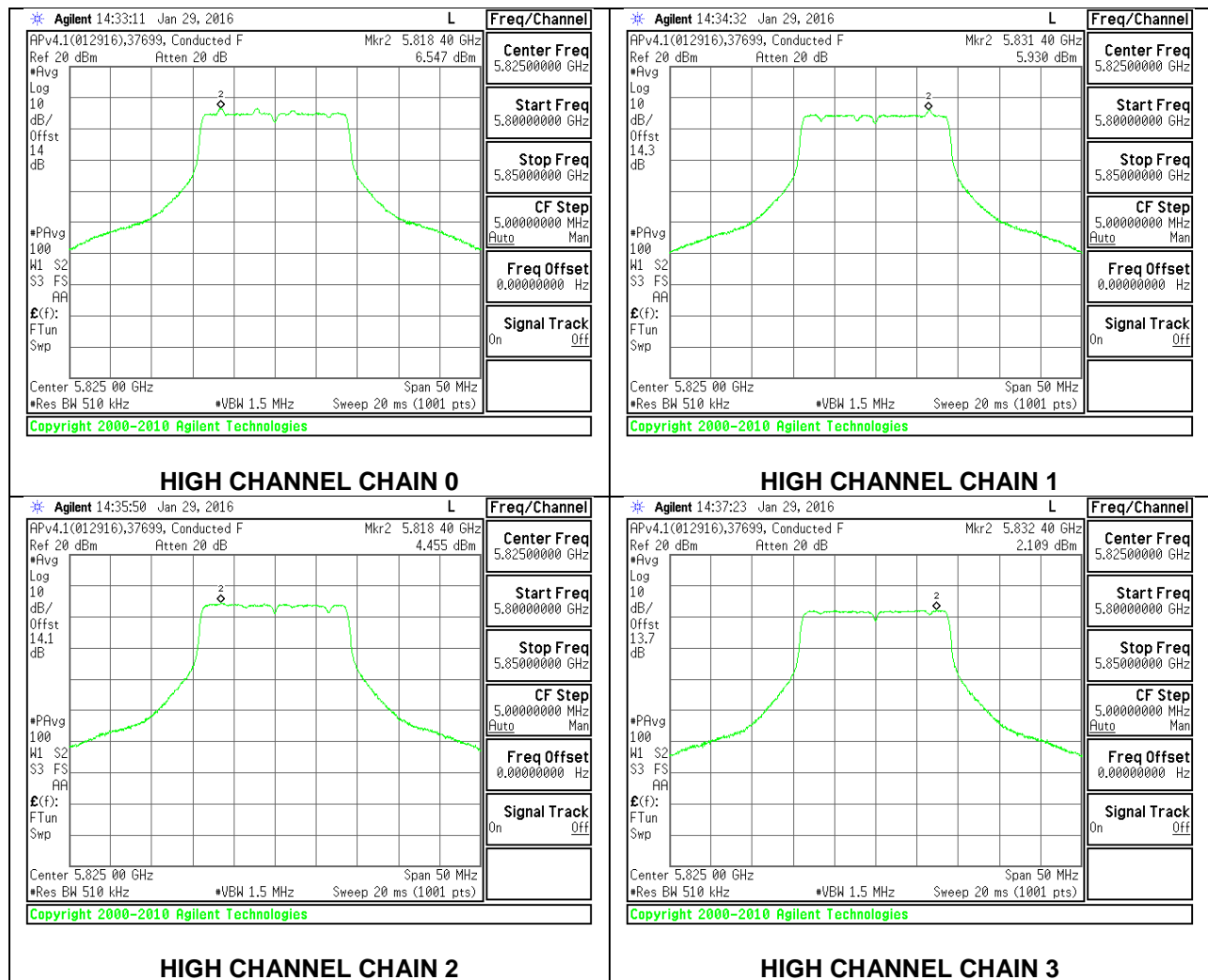
## MID CHANNEL - PSD



## HIGH CHANNEL - POWER



## HIGH CHANNEL - PSD





**4Tx 1 STREAM BF MODE (low channel only)**

**Antenna Gain and Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5745               | 9.95                                      | 9.95                                    | 26.05                   | 26.05                 |
| Mid     | 5785               | 9.95                                      | 9.95                                    | 26.05                   | 26.05                 |
| High    | 5825               | 9.95                                      | 9.95                                    | 26.05                   | 26.05                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.68 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

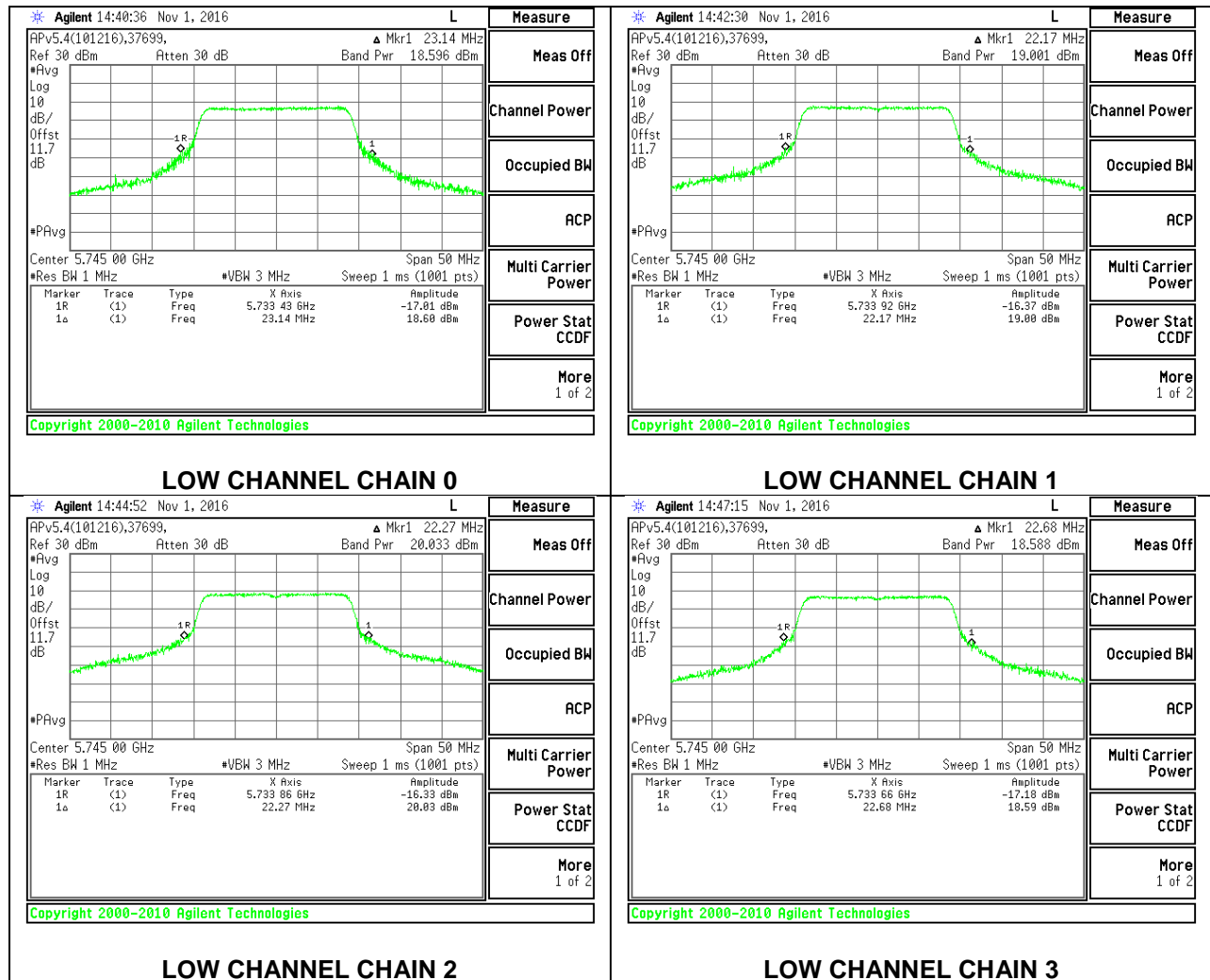
**Output Power Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 18.60                             | 19.00                             | 20.03                             | 18.59                             | 25.80                             | 26.05                   | -0.25                   |
| Mid     | 5785               | 18.48                             | 18.92                             | 18.61                             | 18.65                             | 25.37                             | 26.05                   | -0.68                   |
| High    | 5825               | 16.84                             | 16.66                             | 14.78                             | 15.92                             | 22.82                             | 26.05                   | -3.23                   |

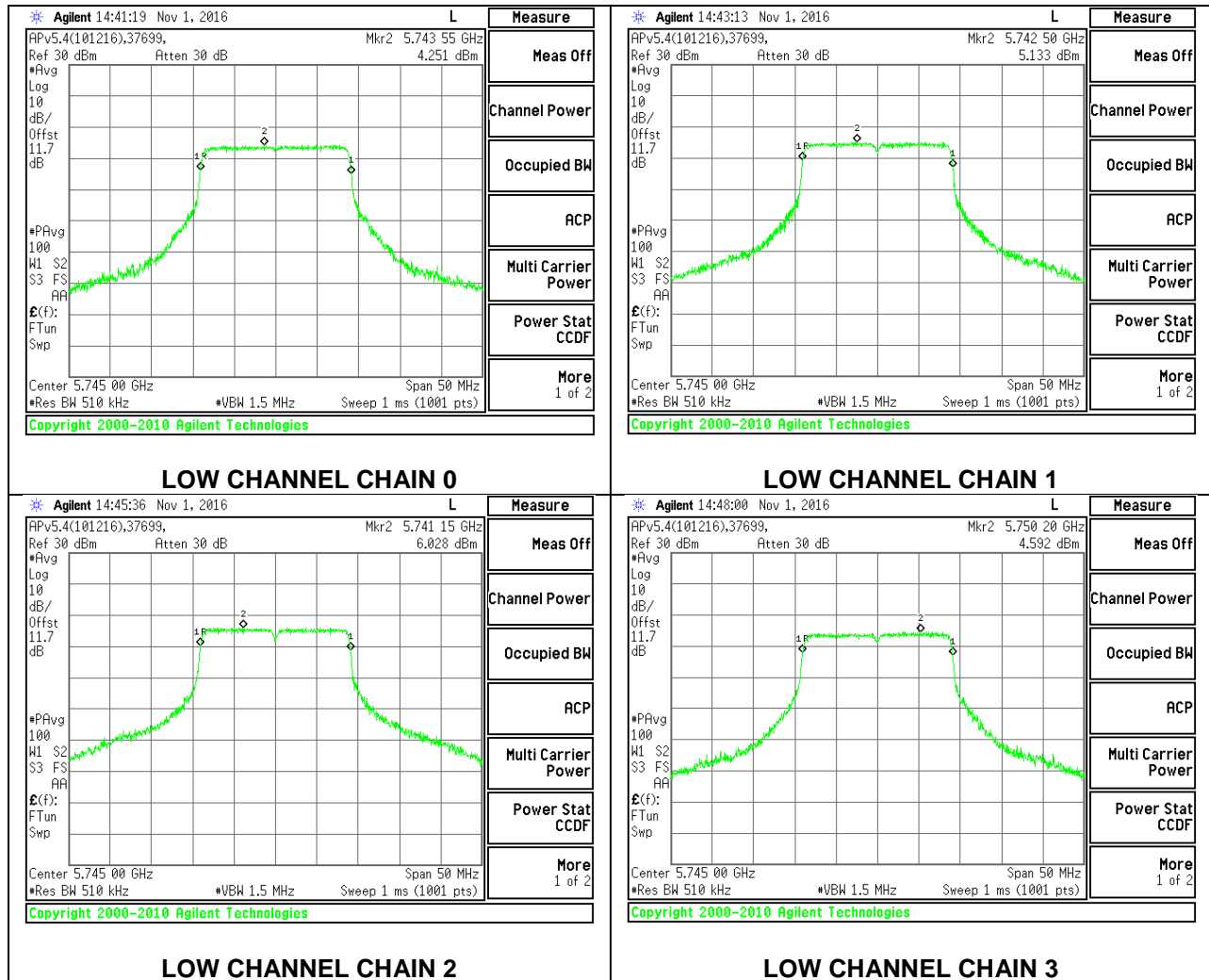
**PSD Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5745               | 4.25                            | 5.13                            | 6.03                            | 4.59                            | 11.75                           | 26.05                 | -14.30                |
| Mid     | 5785               | 3.89                            | 4.26                            | 4.17                            | 4.30                            | 10.86                           | 26.05                 | -15.19                |
| High    | 5825               | 2.59                            | 2.02                            | 0.50                            | 1.78                            | 8.49                            | 26.05                 | -17.56                |

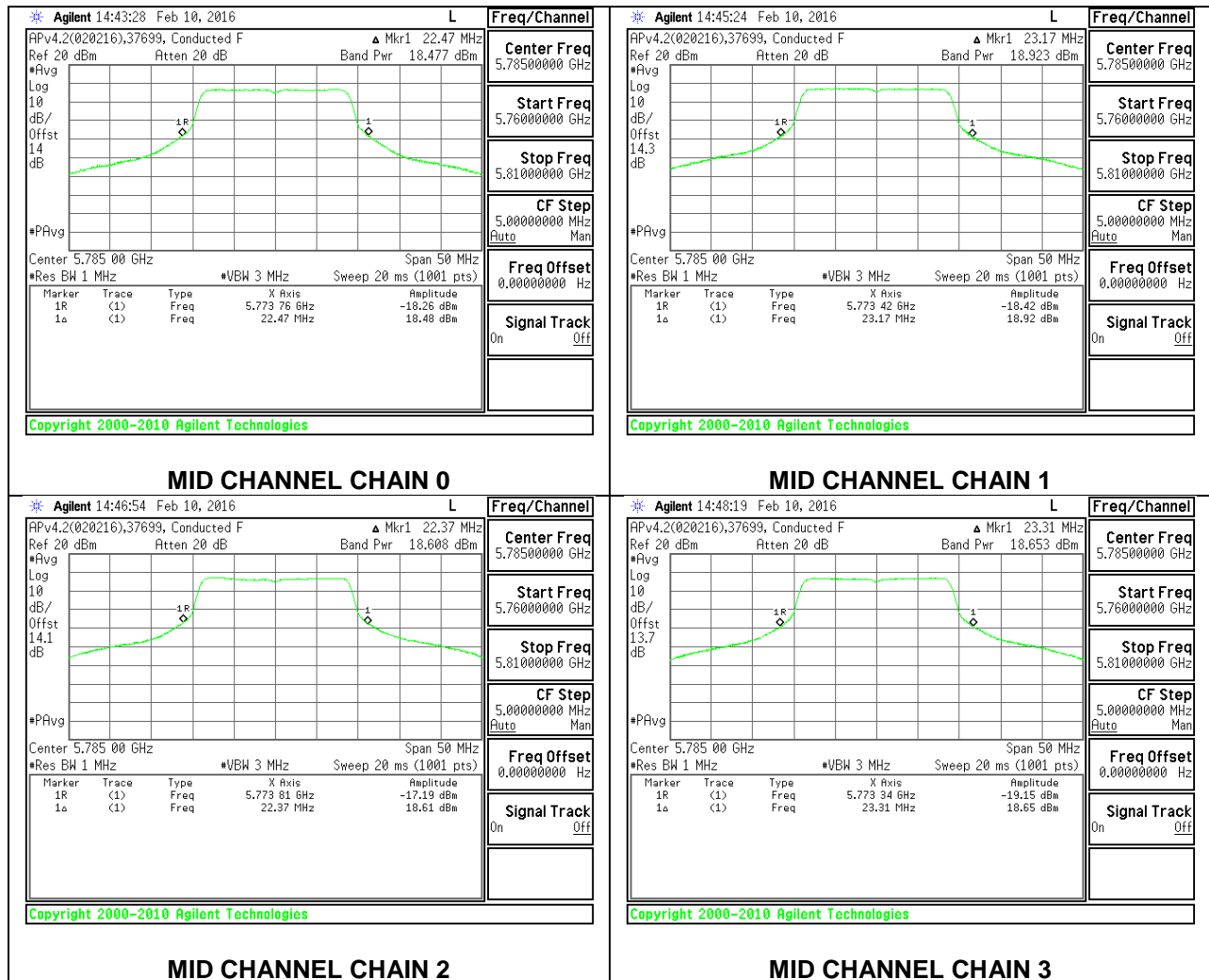
## LOW CHANNEL - POWER



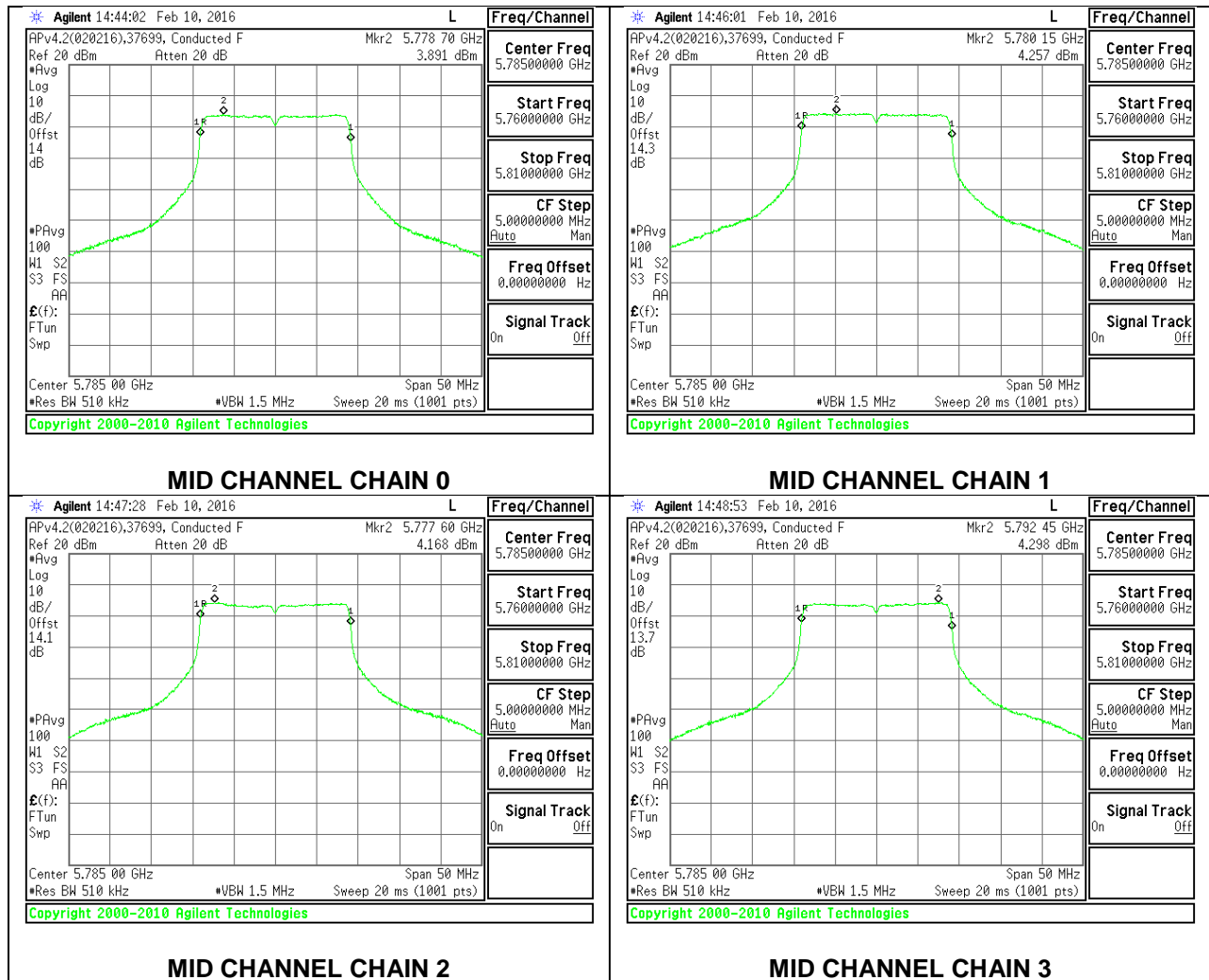
## LOW CHANNEL - PSD



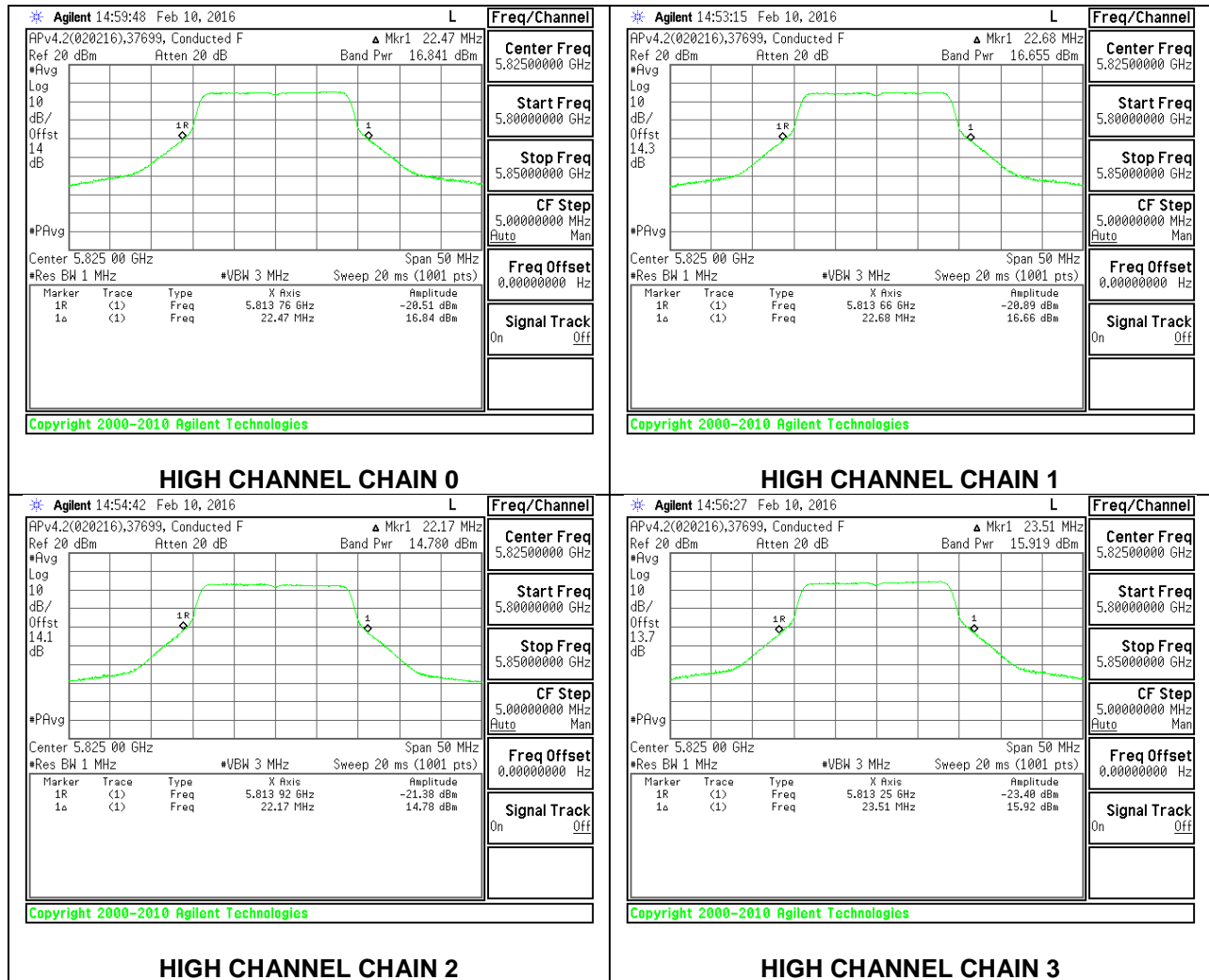
## MID CHANNEL - POWER



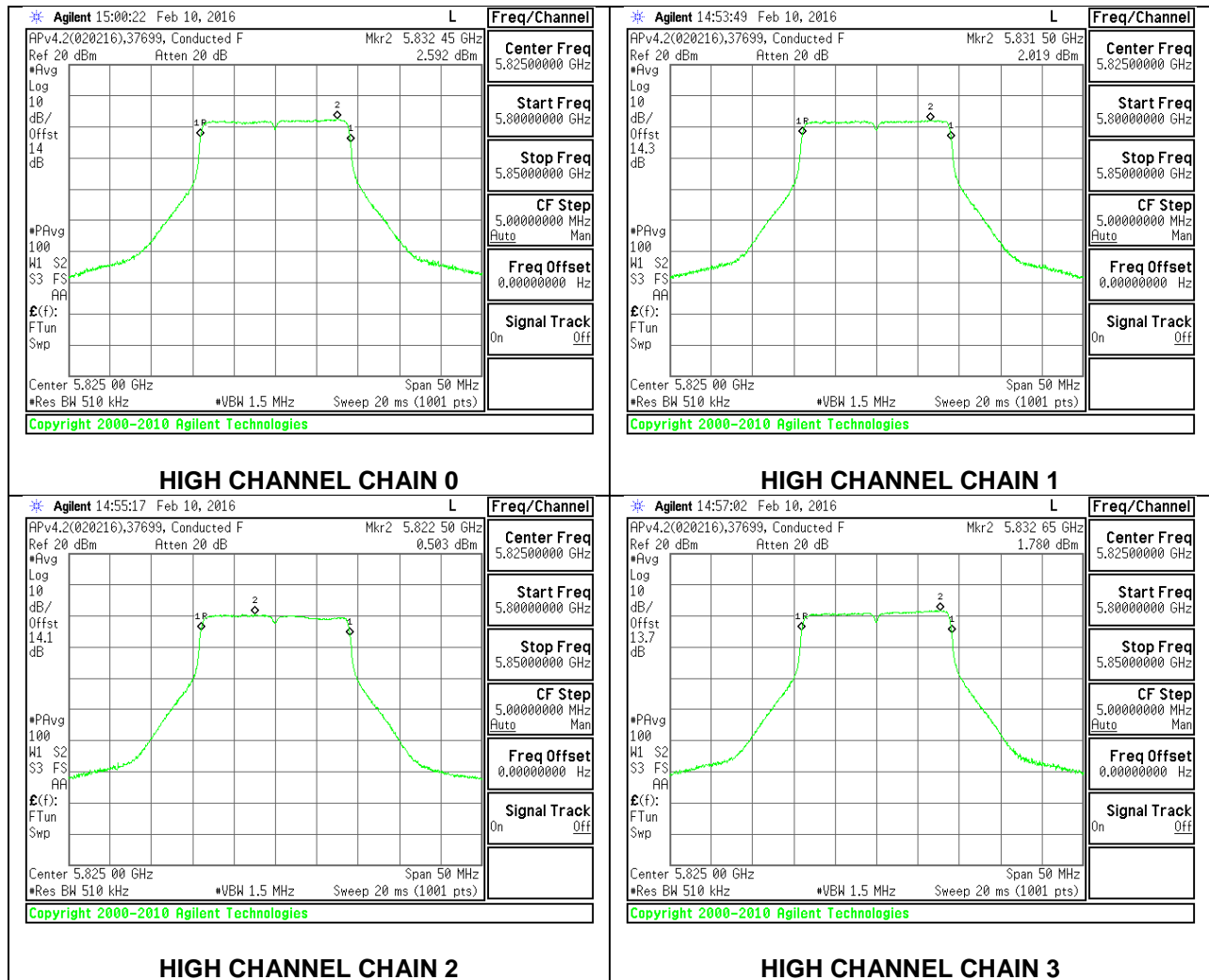
## MID CHANNEL - PSD



## HIGH CHANNEL - POWER



## HIGH CHANNEL - PSD



#### 4.5.7. 802.11ac VHT40 MODE IN THE 5.8 GHz BAND (low channel 3 stream and 1 stream BF)

##### 4Tx 4 STREAM CDD MODE

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm) |
|---------|--------------------|---|---|-------------------------|-----------------------|
| Low     | 5755               | 4.01                                      | 4.01                                    | 30.00                   | 30.00                 |
| High    | 5795               | 4.01                                      | 4.01                                    | 30.00                   | 30.00                 |

|                    |      |  |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.32 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

##### Output Power Results

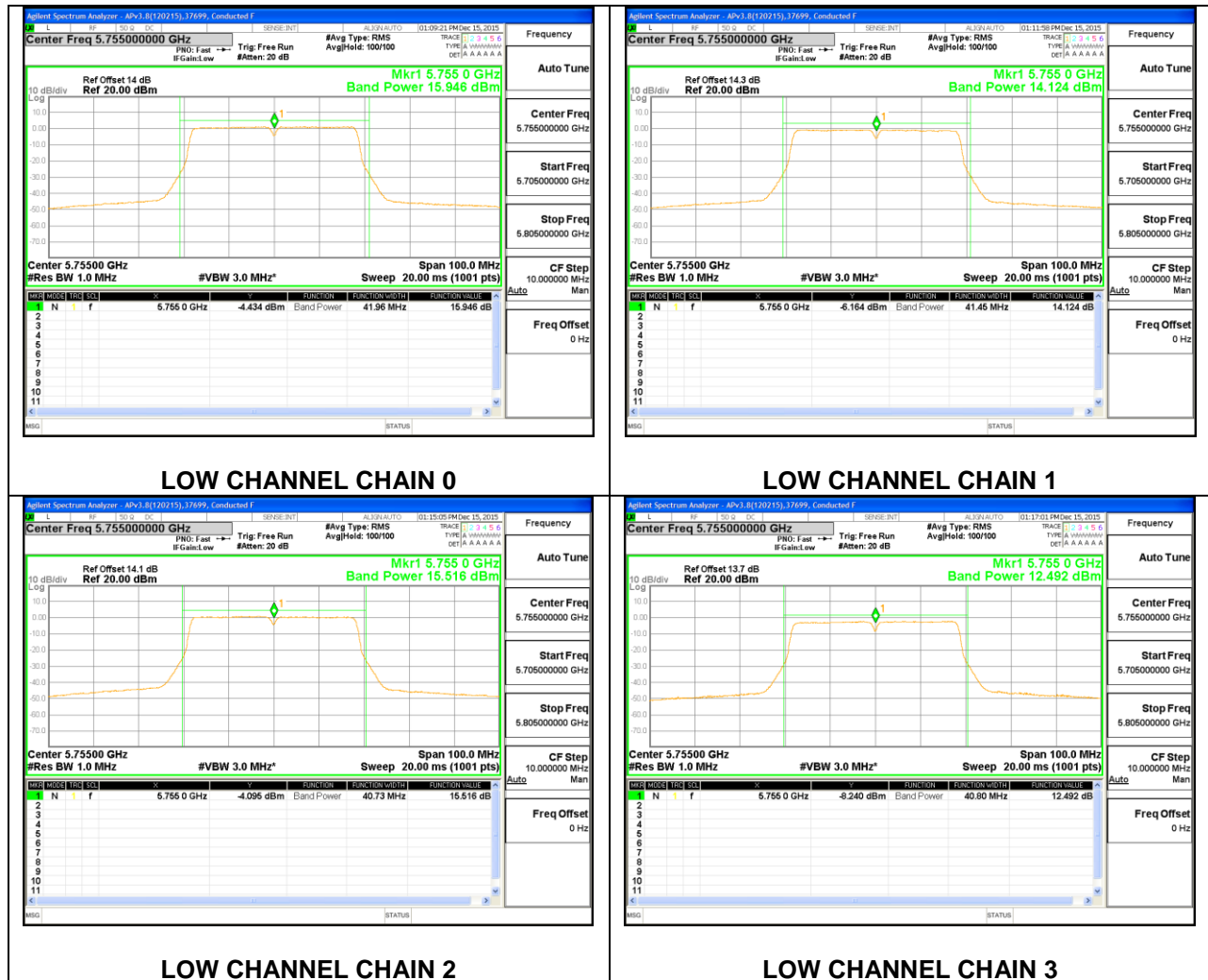
| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Chain 2<br>Meas<br>Power<br>(dBm) | Chain 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 15.95                             | 14.13                             | 15.52                             | 12.49                             | 21.06                             | 30.00                   | -8.94                   |
| High    | 5795               | 20.23                             | 18.12                             | 19.66                             | 16.32                             | 25.17                             | 30.00                   | -4.83                   |

##### PSD Results

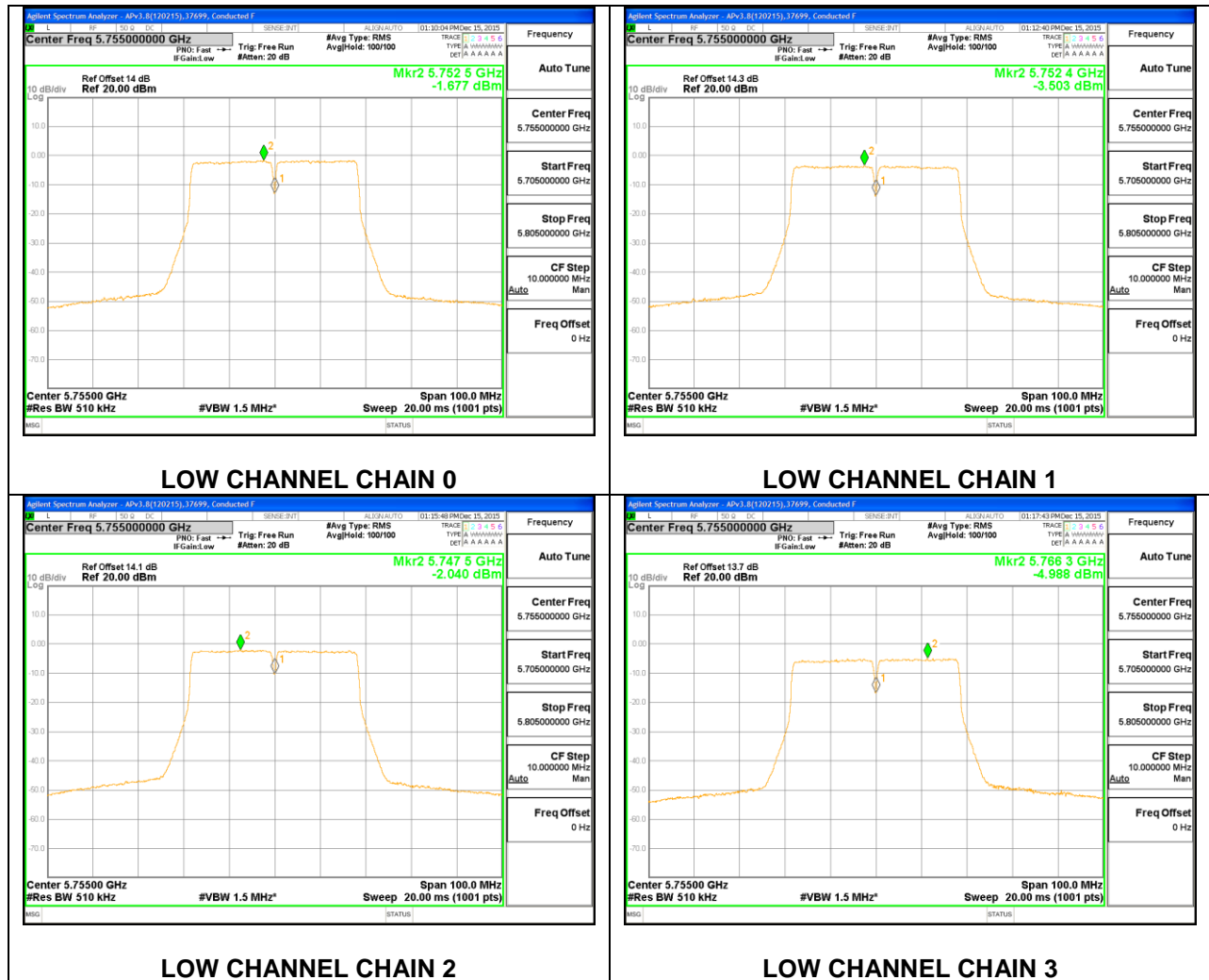
| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm) | Chain 1<br>Meas<br>PSD<br>(dBm) | Chain 2<br>Meas<br>PSD<br>(dBm) | Chain 3<br>Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5755               | -1.68                           | -3.50                           | -2.04                           | -4.99                           | 3.47                            | 30.00                 | -26.53                |
| High    | 5795               | 3.05                            | 0.58                            | 2.01                            | -1.23                           | 7.73                            | 30.00                 | -22.27                |



## LOW CHANNEL - POWER



## LOW CHANNEL - PSD



## HIGH CHANNEL - POWER



## HIGH CHANNEL - PSD

