

Peloton Interactive Inc.

# TEST REPORT

**SCOPE OF WORK:**

47 CFR FCC Part 15.407 – Radio Spectrum report

**Model:**

PLTN-RB1VO-2

**REPORT NUMBER**

210400311THC-001

**ISSUE DATE**

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**PAGES**

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**DOCUMENT CONTROL NUMBER**

GFT-OP-10h (28-Nov-2018)

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# Radio Spectrum TEST REPORT

|                               |                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>             | <b>Peloton Interactive Inc.</b><br><b>125 W 25th St, 11th Floor, New York, NY 10001</b>                                                                                                    |
| <b>Product:</b>               | <b>Peloton Console Tablet</b>                                                                                                                                                              |
| <b>Model No.:</b>             | <b>PLTN-RB1VO-2</b>                                                                                                                                                                        |
| <b>FCC ID:</b>                | <b>2AA3N-RB1VO2</b>                                                                                                                                                                        |
| <b>Test Method/ Standard:</b> | <b>47 CFR FCC Part 15.407</b><br><b>KDB 789033 D02 v02r01</b><br><b>ANSI C63.10 2013</b><br><b>KDB 662911 D01 v02r01</b>                                                                   |
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**TEST REPORT****Revision History**

| Report No.       | Issue Date   | Revision Summary |
|------------------|--------------|------------------|
| 210400311THC-001 | Jul. 5, 2021 | Original report  |

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## Summary of Test Data

| Test Requirement                                                            | Applicable Rule<br>(Section 15.407)              | Result |
|-----------------------------------------------------------------------------|--------------------------------------------------|--------|
| Maximum Conducted Output Power                                              | 15.407 (a)(1)/(2)/(3)<br>KDB 789033 D02 v01r02   | Pass   |
| Power Spectrum Density                                                      | 15.407 (a)(1)/(2)/(3)<br>KDB 789033 D02 v01r02   | Pass   |
| Minimum Emission Bandwidth                                                  | 15.407(a)(5), 15.407(e)<br>KDB 789033 D02 v01r02 | Pass   |
| Emissions In Restricted Frequency Bands<br>(Radiated emission measurements) | 15.407(b), 15.209                                | Pass   |
| Emission on The Band Edge                                                   | 15.407(b), 15.209                                | Pass   |
| Dynamic Frequency Selection (DFS)                                           | 15.407(h)(2)                                     | Pass   |
| AC Line Conducted Emission                                                  | 15.407(b)(6)<br>15.207                           | Pass   |
| Antenna requirement                                                         | 15.203                                           | Pass   |

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

## 1. General Information

### 1.1 Identification of the EUT

|                               |                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>               | Peloton Console Tablet                                                                                                                            |
| <b>Model No.:</b>             | PLTN-RB1VO-2                                                                                                                                      |
| <b>Operating Frequency:</b>   | 1. 5180MHz~5240MHz<br>2. 5260MHz~5320MHz<br>3. 5500MHz~5700MHz<br>4. 5745MHz~5825MHz                                                              |
| <b>Channel Number:</b>        | 1. 7 channels for 5180MHz~5240MHz<br>2. 7 channels for 5260MHz~5320MHz<br>3. 18 channels for 5500MHz~5700MHz<br>4. 8 channels for 5745MHz~5825MHz |
| <b>Access scheme:</b>         | OFDM                                                                                                                                              |
| <b>Rated Power:</b>           | DC 12V from adapter                                                                                                                               |
| <b>Power Cord:</b>            | N/A                                                                                                                                               |
| <b>Sample receiving date:</b> | 2021/04/26                                                                                                                                        |
| <b>Sample condition:</b>      | Workable                                                                                                                                          |
| <b>Test Date(s):</b>          | 2021/04/26 ~ 2021/05/24                                                                                                                           |

### 1.2 Description of the EUT

| Modulation mode   | Transmit path  |               |
|-------------------|----------------|---------------|
|                   | Chain 0 / Main | Chain 1 / AUX |
| 802.11 a          | V              | V             |
| 802.11 ac (VHT20) | V              | V             |
| 802.11 ac (VHT40) | V              | V             |
| 802.11 ac (VHT80) | V              | V             |

### 1.3 Antenna description

#### Antenna 1

Antenna Gain : 2.96 dBi  
 Antenna Type : PCB antenna  
 Connector Type : I-Pex

#### Antenna 2

Antenna Gain : 3.63 dBi  
 Antenna Type : PCB antenna  
 Connector Type : I-Pex

### 1.4 Peripherals equipment

| Peripherals | Brand | Model No.         | Serial No. | Data cable                       |
|-------------|-------|-------------------|------------|----------------------------------|
| Notebook PC | HP    | HP Probook 440 G3 | 5CD8021S9H | Micro USB shielded cable 1 meter |
| Adapter     | EDAX  | EA10681G-120      | N/A        | N/A                              |
| Router      | ASUS  | RT-AC68U          | N/A        | N/A                              |

## 1.4 Operation mode

- (1) TX mode: EUT use 「AMPAK RFTTestTool.apk」 entering test mode , and Touchscreen to change different channel.
- (2) With individual verifying, the maximum output power were found out 6 Mbps data rate for 802.11a mode, 6.5 Mbps data rate for 802.11ac(VHT20) mode , 13.5 Mbps data rate for 802.11ac(VHT40) mode , 29.3 Mbps data rate for 802.11ac(VHT80) mode , the final tests were executed under these conditions recorded in this report individually.

| Mode             | Channel | Frequency (MHz) | Data rate (Mbps) | Signal on time (ms) | Signal on+off time (ms) | Duty cycle | Duty factor (dB) | 1/T Minimum VBW (kHz) |
|------------------|---------|-----------------|------------------|---------------------|-------------------------|------------|------------------|-----------------------|
| 802.11a          | 100     | 5500            | 6                | 1.39                | 1.44                    | 96.52%     | 0.31             | 0.72                  |
| 802.11ac (VHT20) | 100     | 5500            | 6.5              | 1.93                | 1.96                    | 98.47%     | 0.13             | 0.01                  |
| 802.11ac (VHT40) | 102     | 5510            | 13.5             | 1.22                | 1.27                    | 95.67%     | 0.38             | 0.82                  |
| 802.11ac (VHT80) | 106     | 5530            | 29.3             | 2.20                | 2.26                    | 97.56%     | 0.21             | 0.45                  |

## 2. Maximum Conducted Output Power

### 2.1 Limit for maximum output power

| Operating Frequency (MHz) | Conducted output power limit |
|---------------------------|------------------------------|
| 5150~5725                 | < 0.25 W (24 dBm)            |
| 5725~5850                 | < 1 W (30 dBm)               |

| Operating Frequency (MHz) | Maximum E.I.R.P. limit |
|---------------------------|------------------------|
| 5150~5725                 | < 1 W (30 dBm)         |
| 5725~5850                 | < 4 W (36 dBm)         |

### 2.2 Measuring instrument setting

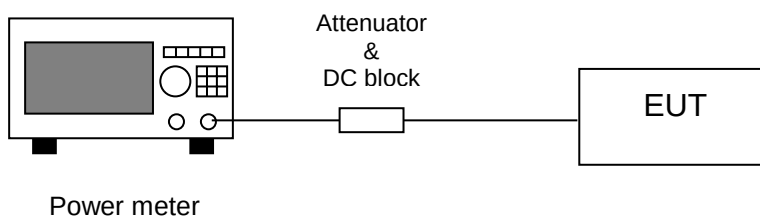
| Power meter for Nominal Bandwidth less than 65MHz |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| Power meter                                       | Setting                                                    |
| Bandwidth                                         | 65MHz bandwidth is greater than the EUT emission bandwidth |
| Detector                                          | Average                                                    |

### 2.3 Test procedure

Test procedures refer to clause E) 3) b) measurement using a gated RF average power meter of KDB 789033 D02 v01r02

Test procedures refer to clause E) 2) b) Method SA-1 of KDB 789033 D02 v01r02

### 2.4 Test diagram



## TEST REPORT

### 2.5 Test results

|                         |                       |
|-------------------------|-----------------------|
| Temperature (°C) :      | 27                    |
| Relative Humidity (%) : | 58                    |
| Test date :             | 2021/5/20 - 2021/5/24 |

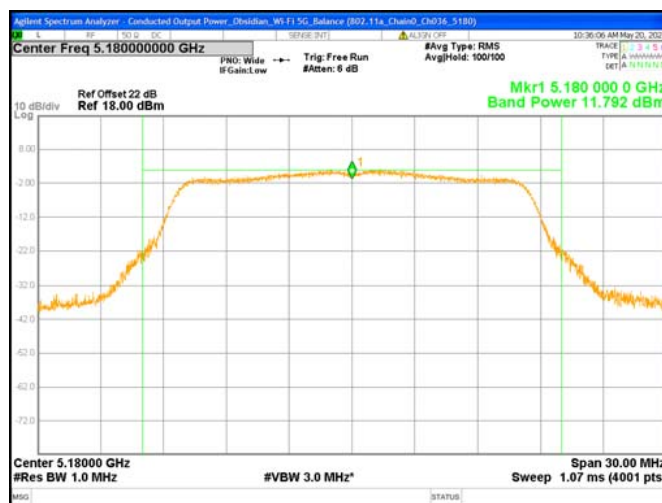
| Mode           | Ch  | Frequency (MHz) | Conducted Output Power (AV) |       | Duty Factor | Antenna Gain (dBi) | E.I.R.P. (dBm) | Limit of Conducted Power (dBm) | Margin (dB) | Limit of E.I.R.P. (dBm) | Margin (dB) |
|----------------|-----|-----------------|-----------------------------|-------|-------------|--------------------|----------------|--------------------------------|-------------|-------------------------|-------------|
|                |     |                 | dBm                         | mW    |             |                    |                |                                |             |                         |             |
| 802.11a Chain0 | 36  | 5180            | 11.79                       | 15.10 | 0.31        | 2.96               | 15.06          | 24.00                          | -11.90      | 30.00                   | -14.94      |
|                | 44  | 5220            | 12.38                       | 17.30 | 0.31        | 2.96               | 15.65          | 24.00                          | -11.31      | 30.00                   | -14.35      |
|                | 48  | 5240            | 12.53                       | 17.91 | 0.31        | 2.96               | 15.80          | 24.00                          | -11.16      | 30.00                   | -14.20      |
|                | 52  | 5260            | 13.29                       | 21.33 | 0.31        | 2.96               | 16.56          | 24.00                          | -10.40      | 30.00                   | -13.44      |
|                | 60  | 5300            | 13.65                       | 23.17 | 0.31        | 2.96               | 16.92          | 24.00                          | -10.04      | 30.00                   | -13.08      |
|                | 64  | 5320            | 13.87                       | 24.38 | 0.31        | 2.96               | 17.14          | 24.00                          | -9.82       | 30.00                   | -12.86      |
|                | 100 | 5500            | 15.99                       | 39.72 | 0.31        | 2.96               | 19.26          | 24.00                          | -7.70       | 30.00                   | -10.74      |
|                | 120 | 5600            | 16.54                       | 45.08 | 0.31        | 2.96               | 19.81          | 24.00                          | -7.15       | 30.00                   | -10.19      |
|                | 140 | 5700            | 16.53                       | 44.98 | 0.31        | 2.96               | 19.80          | 24.00                          | -7.16       | 30.00                   | -10.20      |
|                | 149 | 5745            | 15.27                       | 33.65 | 0.31        | 2.96               | 18.54          | 30.00                          | -14.42      | 36.00                   | -17.46      |
|                | 157 | 5785            | 14.82                       | 30.34 | 0.31        | 2.96               | 18.09          | 30.00                          | -14.87      | 36.00                   | -17.91      |
|                | 165 | 5825            | 14.15                       | 26.00 | 0.31        | 2.96               | 17.42          | 30.00                          | -15.54      | 36.00                   | -18.58      |
| 802.11a Chain1 | 36  | 5180            | 12.03                       | 15.96 | 0.31        | 3.63               | 15.97          | 24.00                          | -11.66      | 30.00                   | -14.03      |
|                | 44  | 5220            | 12.68                       | 18.54 | 0.31        | 3.63               | 16.62          | 24.00                          | -11.01      | 30.00                   | -13.38      |
|                | 48  | 5240            | 12.72                       | 18.71 | 0.31        | 3.63               | 16.66          | 24.00                          | -10.97      | 30.00                   | -13.34      |
|                | 52  | 5260            | 12.86                       | 19.32 | 0.31        | 3.63               | 16.80          | 24.00                          | -10.83      | 30.00                   | -13.20      |
|                | 60  | 5300            | 13.74                       | 23.66 | 0.31        | 3.63               | 17.68          | 24.00                          | -9.95       | 30.00                   | -12.32      |
|                | 64  | 5320            | 13.92                       | 24.66 | 0.31        | 3.63               | 17.86          | 24.00                          | -9.77       | 30.00                   | -12.14      |
|                | 100 | 5500            | 16.34                       | 43.05 | 0.31        | 3.63               | 20.28          | 24.00                          | -7.35       | 30.00                   | -9.72       |
|                | 120 | 5600            | 16.51                       | 44.77 | 0.31        | 3.63               | 20.45          | 24.00                          | -7.18       | 30.00                   | -9.55       |
|                | 140 | 5700            | 16.48                       | 44.46 | 0.31        | 3.63               | 20.42          | 24.00                          | -7.21       | 30.00                   | -9.58       |
|                | 149 | 5745            | 15.45                       | 35.08 | 0.31        | 3.63               | 19.39          | 30.00                          | -14.24      | 36.00                   | -16.61      |
|                | 157 | 5785            | 15.23                       | 33.34 | 0.31        | 3.63               | 19.17          | 30.00                          | -14.46      | 36.00                   | -16.83      |
|                | 165 | 5825            | 14.38                       | 27.42 | 0.31        | 3.63               | 18.32          | 30.00                          | -15.31      | 36.00                   | -17.68      |

**TEST REPORT**

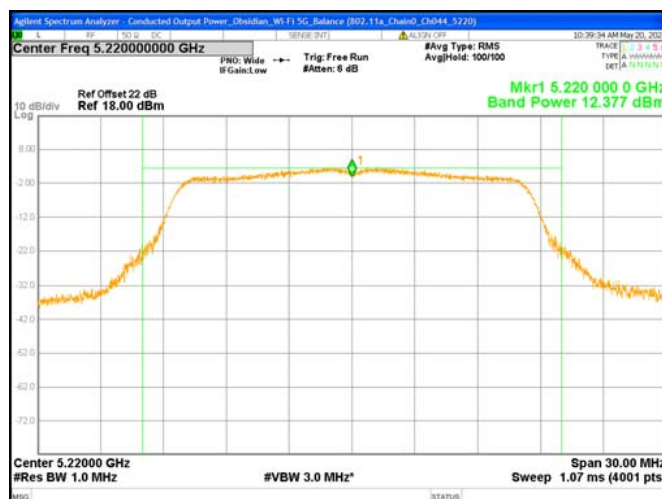
| Mode                      | Ch  | Freq (MHz) | Output Power (AV) |         | Total Power (AV) |       | Duty Factor | Result dBm | Ant 0 Gain (dBi) | Ant 1 Gain (dBi) | E.I.R.P. (dBm) | Limit of Conducted Power (dBm) | Margin (dB) | Limit of E.I.R.P. (dBm) | Margin (dB) |
|---------------------------|-----|------------|-------------------|---------|------------------|-------|-------------|------------|------------------|------------------|----------------|--------------------------------|-------------|-------------------------|-------------|
|                           |     |            | Chain 0           | Chain 1 |                  |       |             |            |                  |                  |                |                                |             |                         |             |
|                           |     |            | dBm               | dBm     | mW               | dBm   |             |            |                  |                  |                |                                |             |                         |             |
| 802.11ac (VHT20) Chain0+1 | 36  | 5180       | 11.82             | 12.16   | 31.65            | 15.00 | 0.13        | 15.14      | 2.96             | 3.63             | 18.46          | 24.00                          | -8.86       | 30.00                   | -11.54      |
|                           | 44  | 5220       | 12.03             | 12.47   | 33.62            | 15.27 | 0.13        | 15.40      | 2.96             | 3.63             | 18.72          | 24.00                          | -8.60       | 30.00                   | -11.28      |
|                           | 48  | 5240       | 12.37             | 12.50   | 35.04            | 15.45 | 0.13        | 15.58      | 2.96             | 3.63             | 18.89          | 24.00                          | -8.42       | 30.00                   | -11.11      |
|                           | 52  | 5260       | 12.77             | 11.77   | 33.95            | 15.31 | 0.13        | 15.44      | 2.96             | 3.63             | 18.71          | 24.00                          | -8.56       | 30.00                   | -11.29      |
|                           | 60  | 5300       | 12.62             | 12.54   | 36.23            | 15.59 | 0.13        | 15.72      | 2.96             | 3.63             | 19.03          | 24.00                          | -8.28       | 30.00                   | -10.97      |
|                           | 64  | 5320       | 12.94             | 12.80   | 38.73            | 15.88 | 0.13        | 16.02      | 2.96             | 3.63             | 19.32          | 24.00                          | -7.98       | 30.00                   | -10.68      |
|                           | 100 | 5500       | 13.92             | 14.11   | 50.42            | 17.03 | 0.13        | 17.16      | 2.96             | 3.63             | 20.48          | 24.00                          | -6.84       | 30.00                   | -9.52       |
|                           | 120 | 5600       | 15.31             | 15.30   | 67.85            | 18.32 | 0.13        | 18.45      | 2.96             | 3.63             | 21.76          | 24.00                          | -5.55       | 30.00                   | -8.24       |
|                           | 140 | 5700       | 14.77             | 14.57   | 58.63            | 17.68 | 0.13        | 17.82      | 2.96             | 3.63             | 21.12          | 24.00                          | -6.18       | 30.00                   | -8.88       |
|                           | 149 | 5745       | 13.68             | 13.48   | 45.62            | 16.59 | 0.13        | 16.73      | 2.96             | 3.63             | 20.03          | 30.00                          | -13.27      | 36.00                   | -15.97      |
|                           | 157 | 5785       | 13.29             | 13.62   | 44.34            | 16.47 | 0.13        | 16.60      | 2.96             | 3.63             | 19.92          | 30.00                          | -13.40      | 36.00                   | -16.08      |
|                           | 165 | 5825       | 12.59             | 13.39   | 39.98            | 16.02 | 0.13        | 16.15      | 2.96             | 3.63             | 19.49          | 30.00                          | -13.85      | 36.00                   | -16.51      |
| 802.11ac (VHT40) Chain0+1 | 38  | 5190       | 9.84              | 10.00   | 19.64            | 12.93 | 0.38        | 13.32      | 2.96             | 3.63             | 16.63          | 24.00                          | -10.68      | 30.00                   | -13.37      |
|                           | 46  | 5230       | 11.20             | 11.25   | 26.52            | 14.24 | 0.38        | 14.62      | 2.96             | 3.63             | 17.93          | 24.00                          | -9.38       | 30.00                   | -12.07      |
|                           | 54  | 5270       | 12.35             | 12.27   | 34.04            | 15.32 | 0.38        | 15.71      | 2.96             | 3.63             | 19.01          | 24.00                          | -8.29       | 30.00                   | -10.99      |
|                           | 62  | 5310       | 10.35             | 9.99    | 20.82            | 13.18 | 0.38        | 13.57      | 2.96             | 3.63             | 16.86          | 24.00                          | -10.43      | 30.00                   | -13.14      |
|                           | 102 | 5510       | 10.85             | 10.41   | 23.15            | 13.65 | 0.38        | 14.03      | 2.96             | 3.63             | 17.32          | 24.00                          | -9.97       | 30.00                   | -12.68      |
|                           | 118 | 5590       | 13.48             | 13.79   | 46.22            | 16.65 | 0.38        | 17.03      | 2.96             | 3.63             | 20.35          | 24.00                          | -6.97       | 30.00                   | -9.65       |
|                           | 134 | 5670       | 13.19             | 13.46   | 43.03            | 16.34 | 0.38        | 16.72      | 2.96             | 3.63             | 20.04          | 24.00                          | -7.28       | 30.00                   | -9.96       |
|                           | 151 | 5755       | 12.19             | 11.66   | 31.21            | 14.94 | 0.38        | 15.33      | 2.96             | 3.63             | 18.62          | 30.00                          | -14.67      | 36.00                   | -17.38      |
|                           | 159 | 5795       | 12.09             | 12.09   | 32.36            | 15.10 | 0.38        | 15.48      | 2.96             | 3.63             | 18.79          | 30.00                          | -14.52      | 36.00                   | -17.21      |
| 802.11ac (VHT80) Chain0+1 | 42  | 5210       | 7.43              | 7.05    | 10.60            | 10.25 | 0.21        | 10.47      | 2.96             | 3.63             | 13.76          | 24.00                          | -13.53      | 30.00                   | -16.24      |
|                           | 58  | 5290       | 9.81              | 9.90    | 19.34            | 12.87 | 0.21        | 13.08      | 2.96             | 3.63             | 16.39          | 30.00                          | -16.92      | 30.00                   | -13.61      |
|                           | 106 | 5530       | 9.68              | 9.89    | 19.04            | 12.80 | 0.21        | 13.01      | 2.96             | 3.63             | 16.33          | 30.00                          | -16.99      | 30.00                   | -13.67      |
|                           | 122 | 5610       | 12.99             | 12.91   | 39.45            | 15.96 | 0.21        | 16.17      | 2.96             | 3.63             | 19.48          | 30.00                          | -13.83      | 30.00                   | -10.52      |
|                           | 155 | 5775       | 11.43             | 11.45   | 27.86            | 14.45 | 0.21        | 14.66      | 2.96             | 3.63             | 17.97          | 30.00                          | -15.34      | 36.00                   | -18.03      |

Note: Result=Total Power+Duty Factor

## Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch036



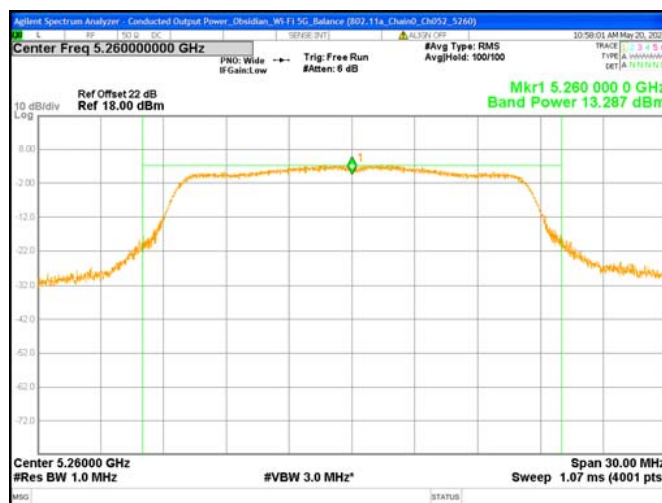
## Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch044



## Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch048



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch052



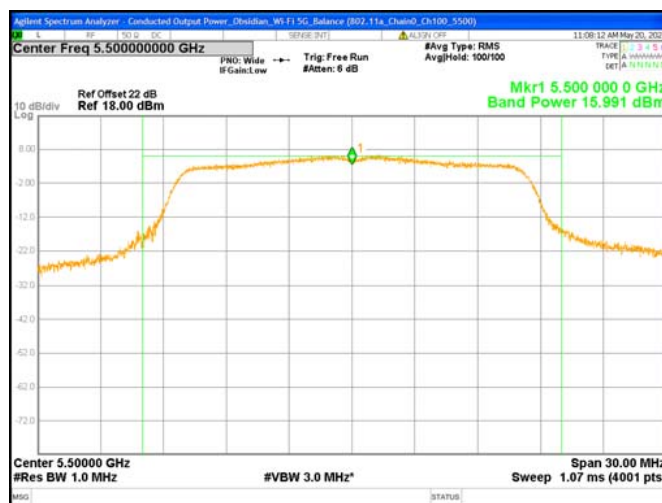
### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch060



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch064



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch100



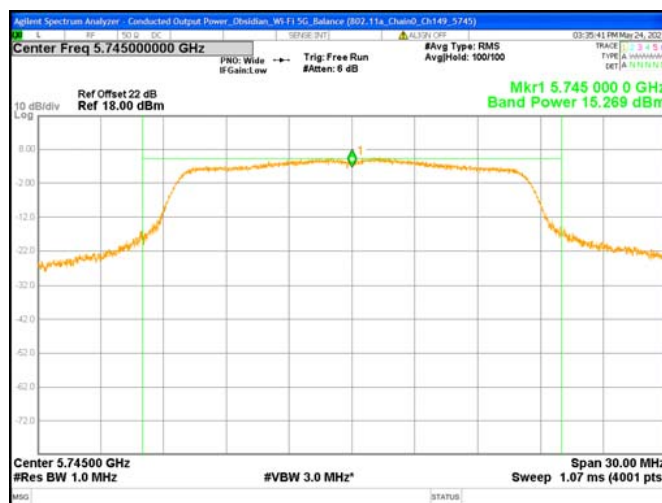
### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch120



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch140



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch149



### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch157



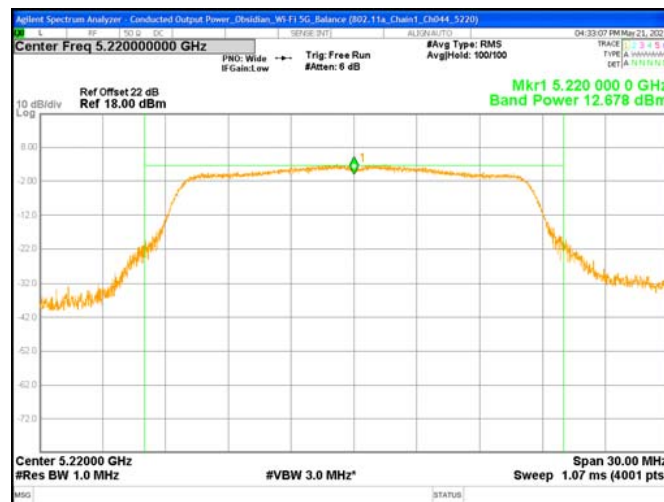
### Chain0 : Conducted Power & EIRP @ 802.11a Mode Ch165



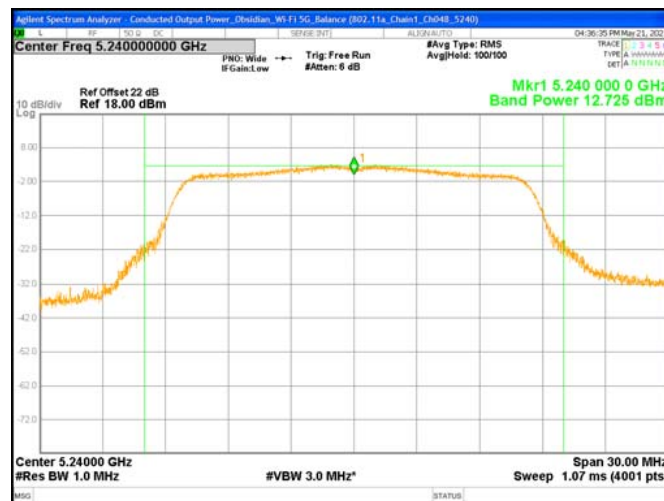
**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch036**



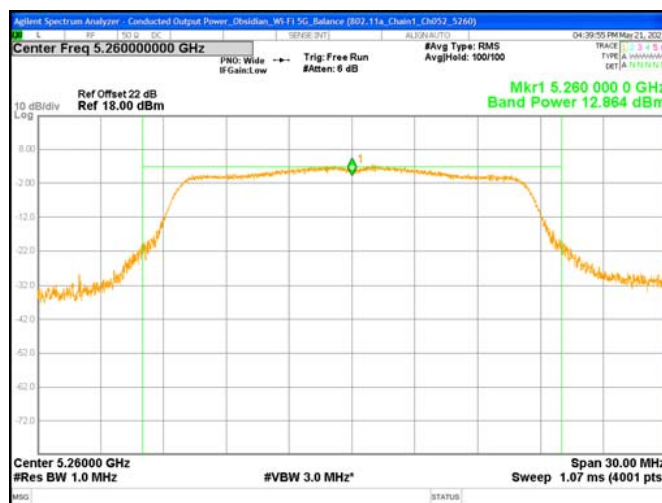
**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch044**



**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch048**



### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch052



### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch060



### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch064



### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch100



### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch120



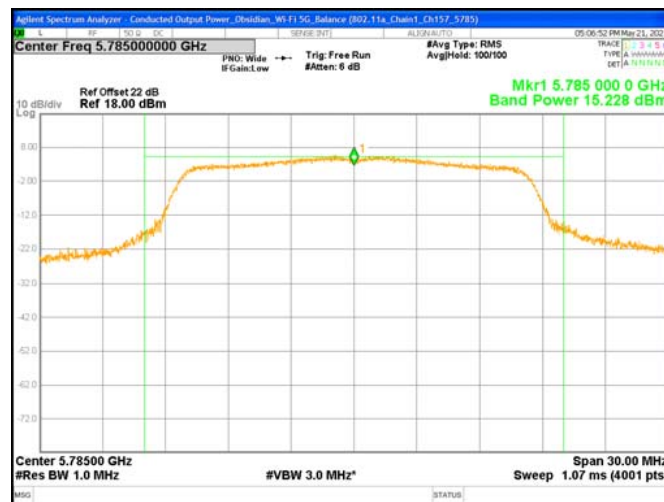
### Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch140



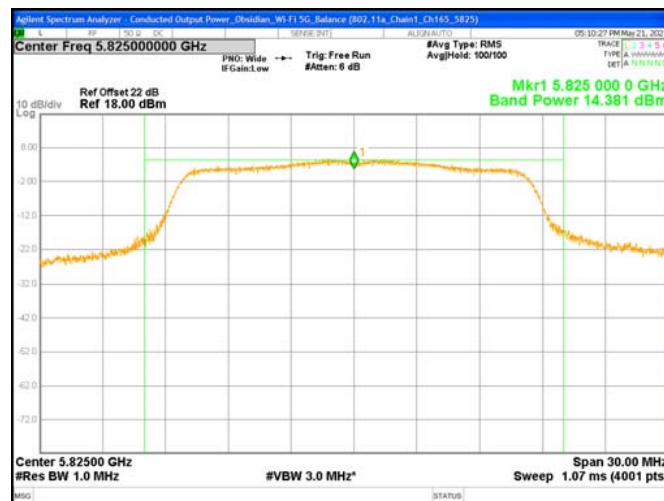
**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch149**



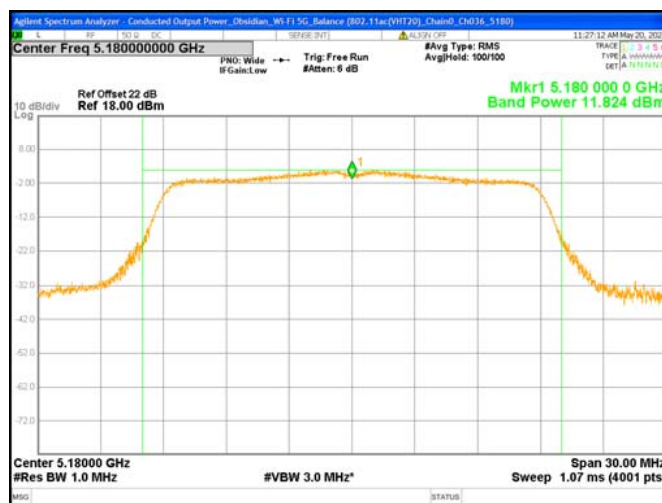
**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch157**



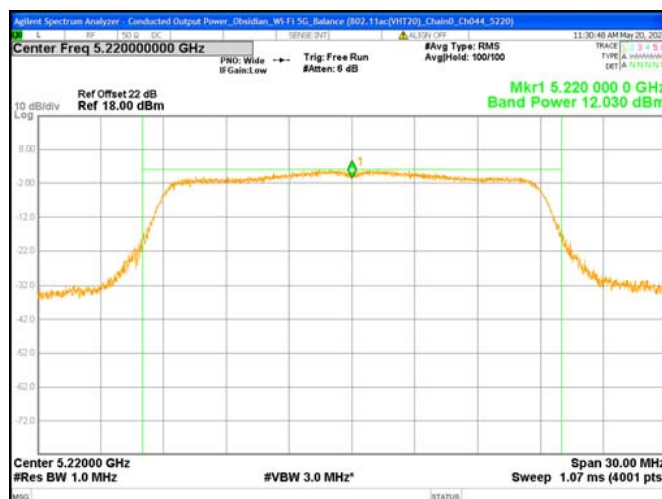
**Chain1 : Conducted Power & EIRP @ 802.11a Mode Ch165**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch036**



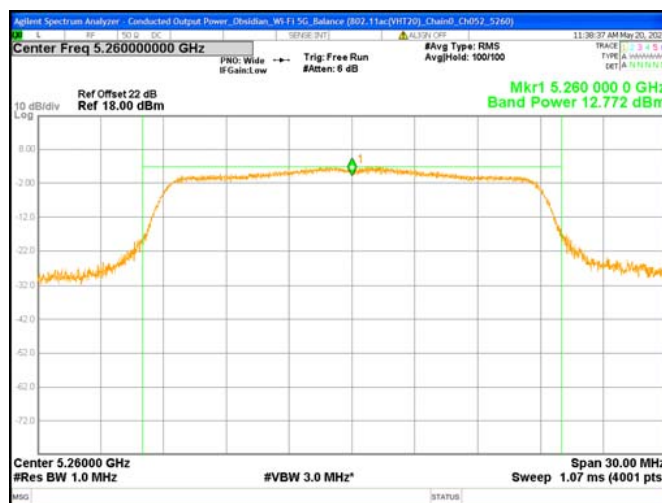
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch044**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch048**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch052**



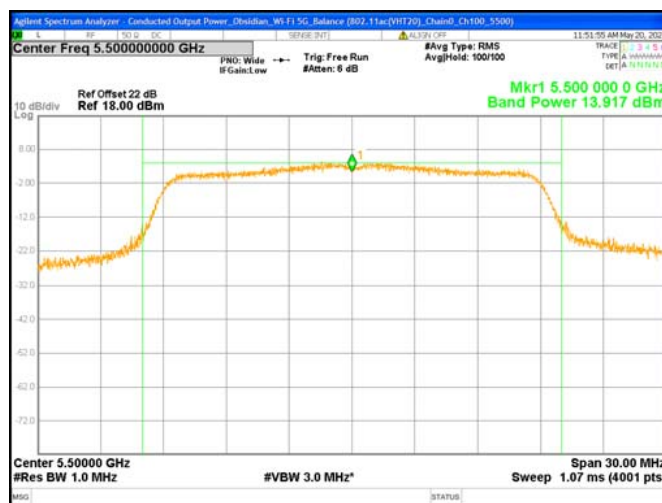
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch060**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch064**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch100**



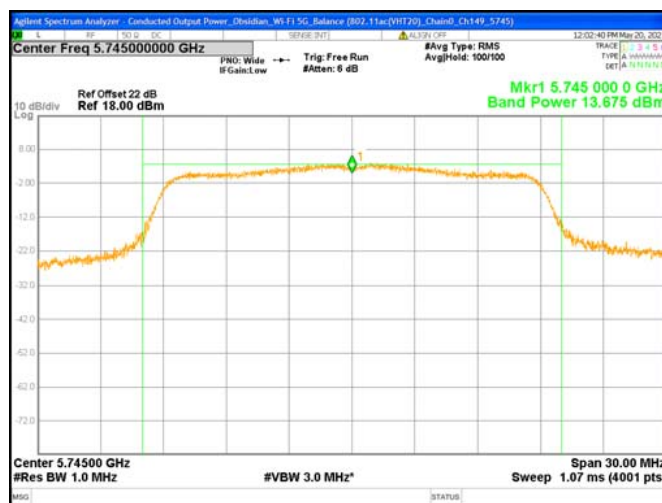
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch120**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch140**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch149**



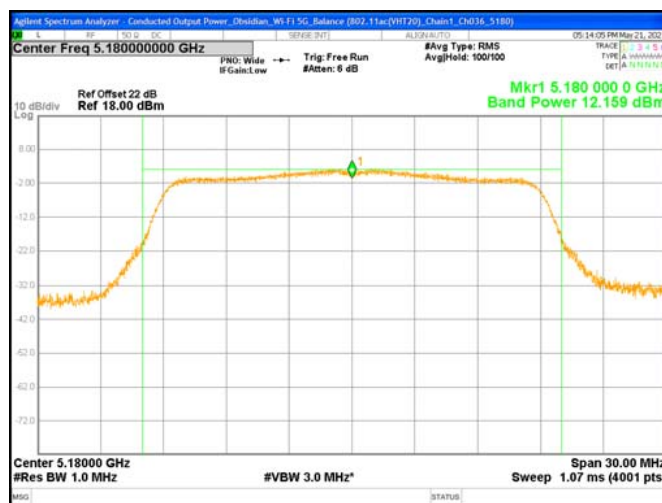
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch157**



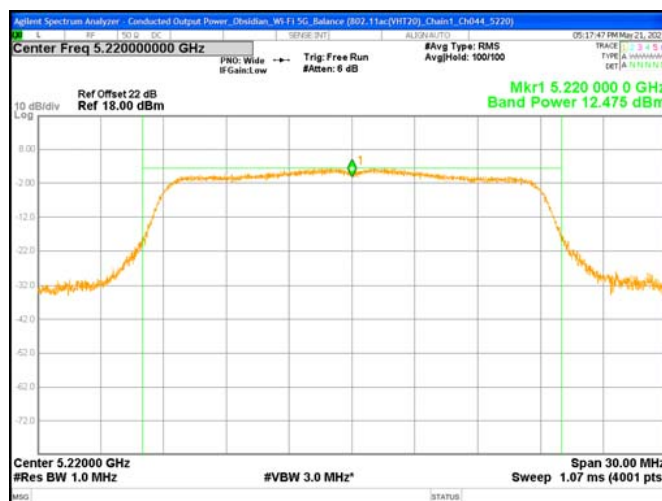
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch165**



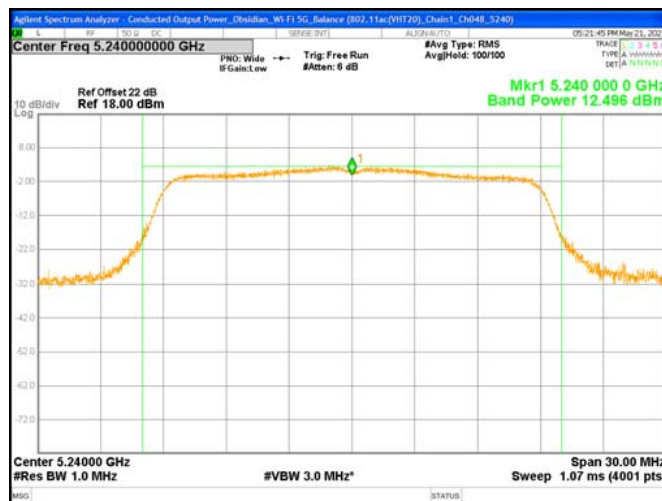
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch036**



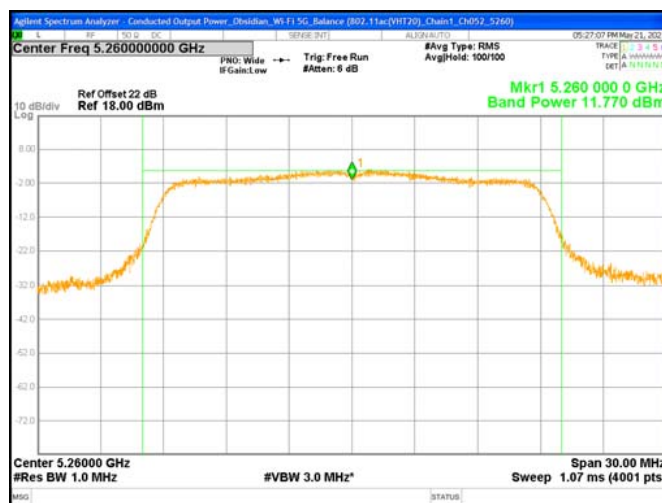
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch044**



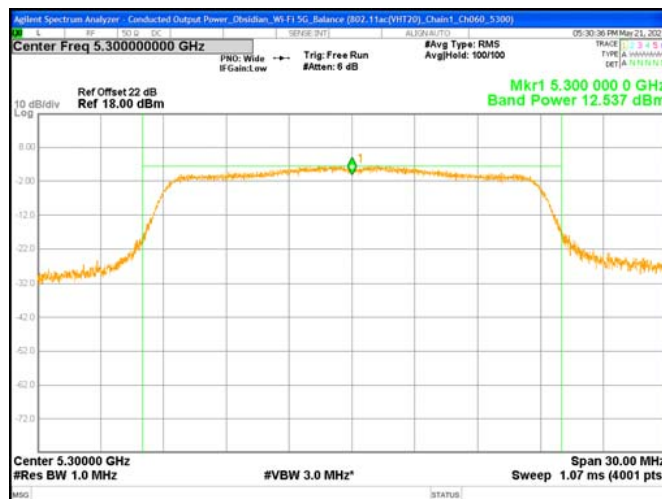
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch048**



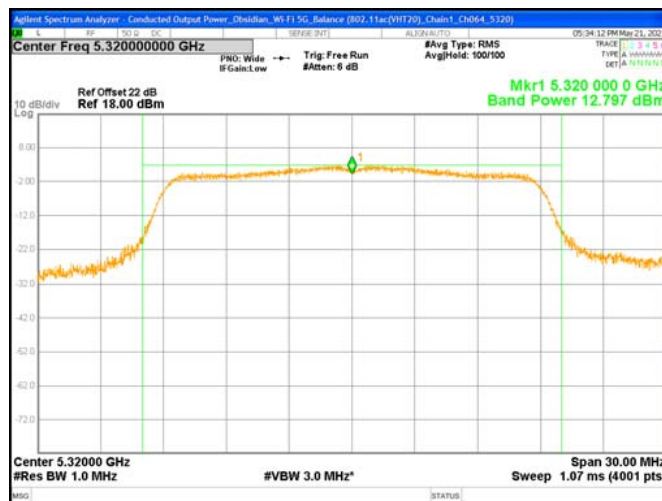
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch052**



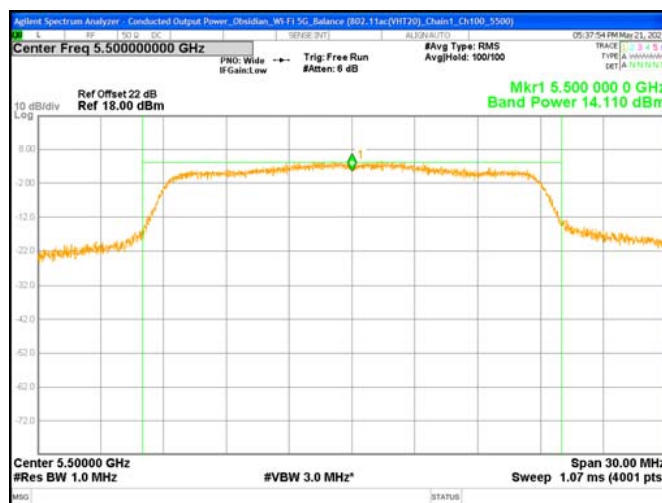
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch060**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch064**



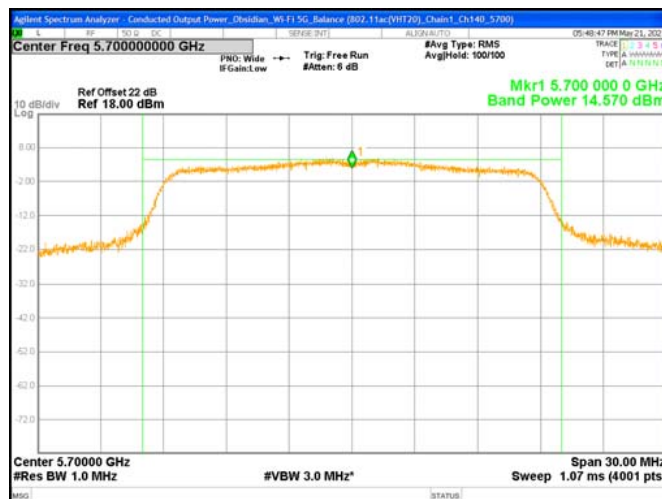
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch100**



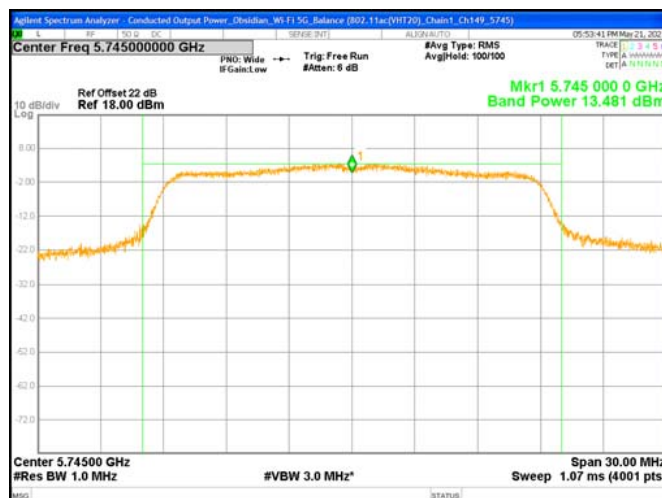
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch120**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch140**



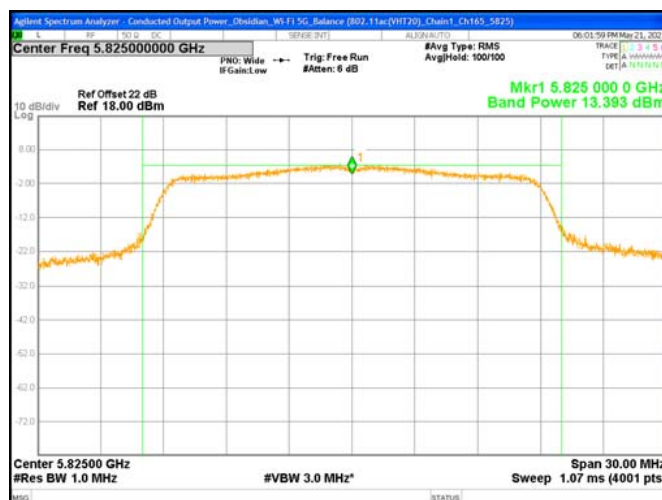
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch149**



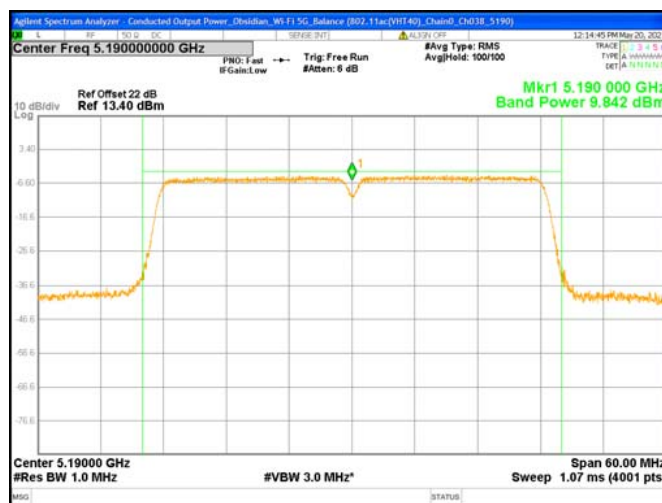
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch157**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT20) Mode Ch165**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch038**



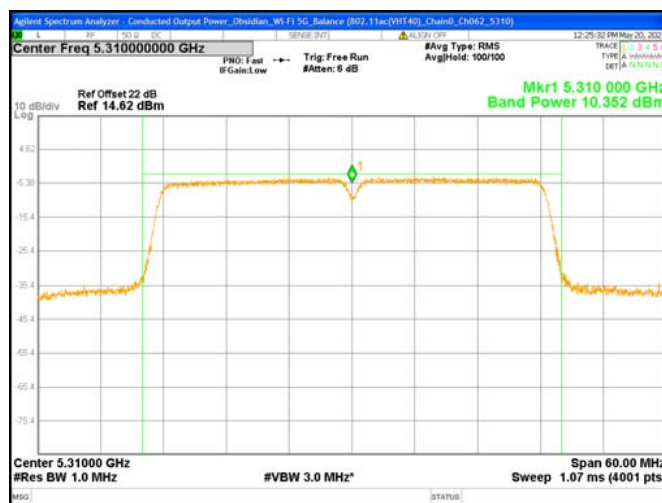
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch046**



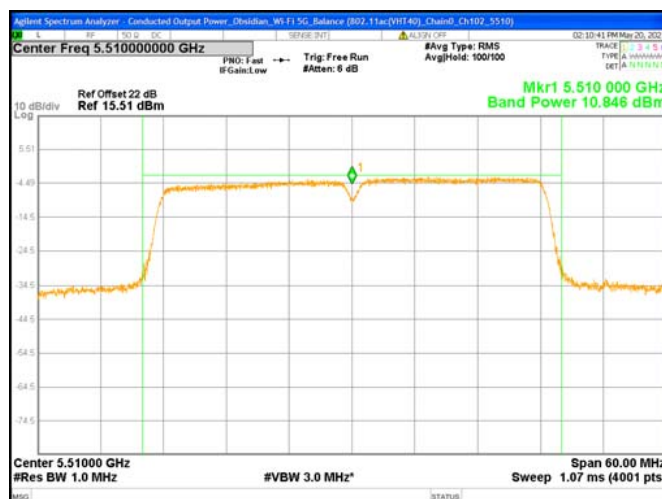
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch054**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch062**



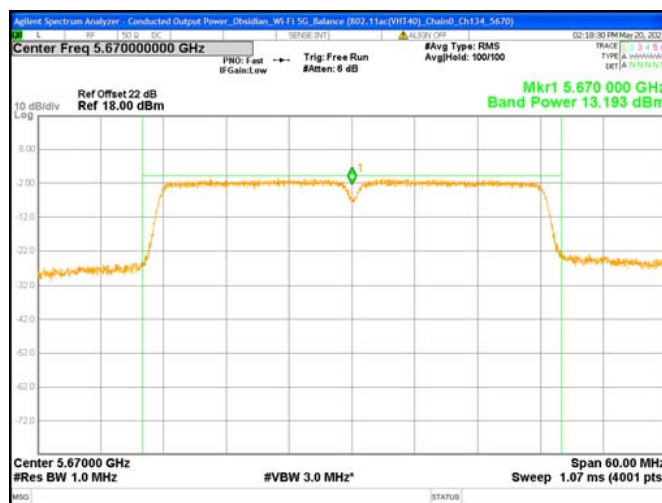
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch102**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch118**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch134**



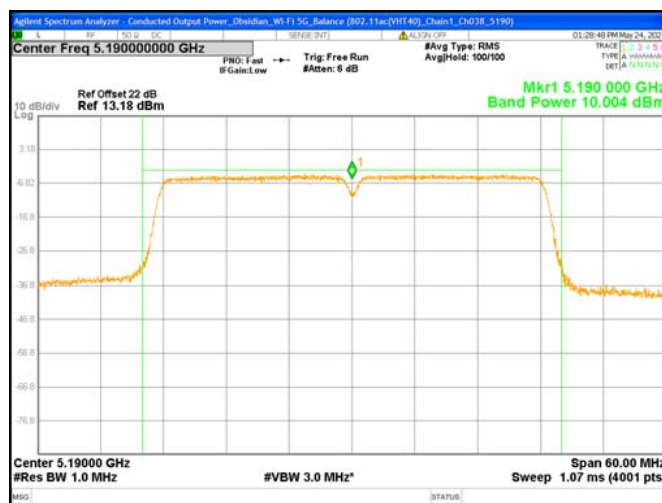
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch151**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch159**



## Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch038



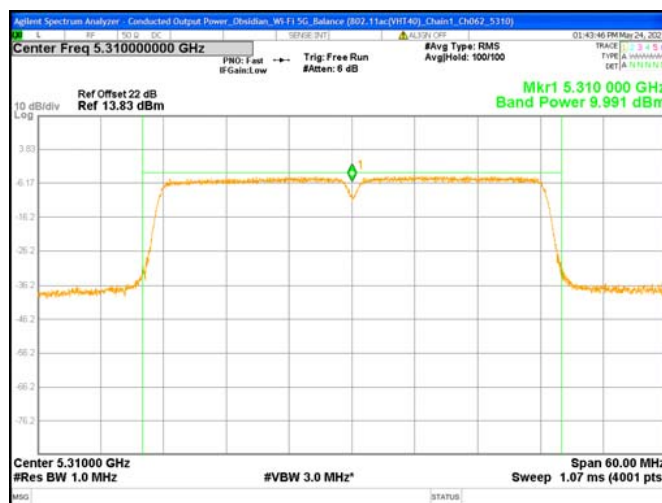
## Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch046



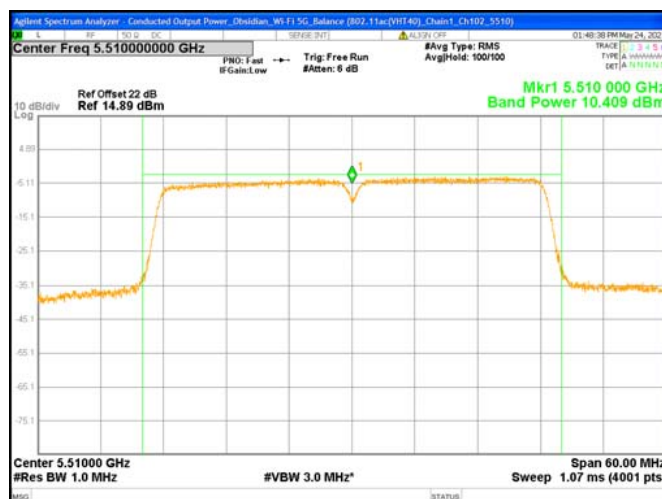
## Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch054



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch062**



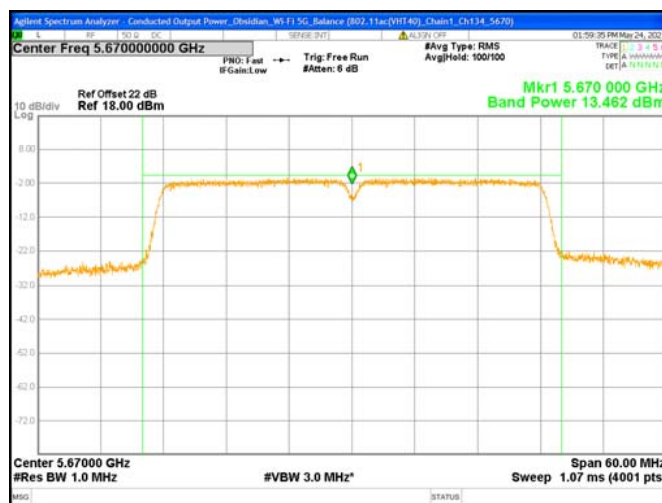
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch102**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch118**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch134**



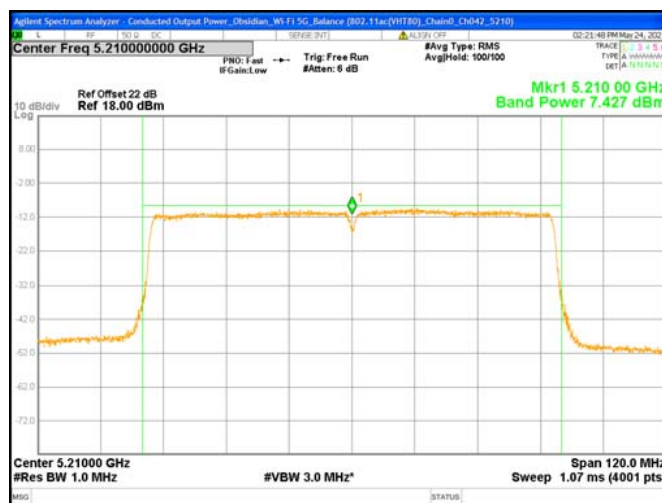
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch151**



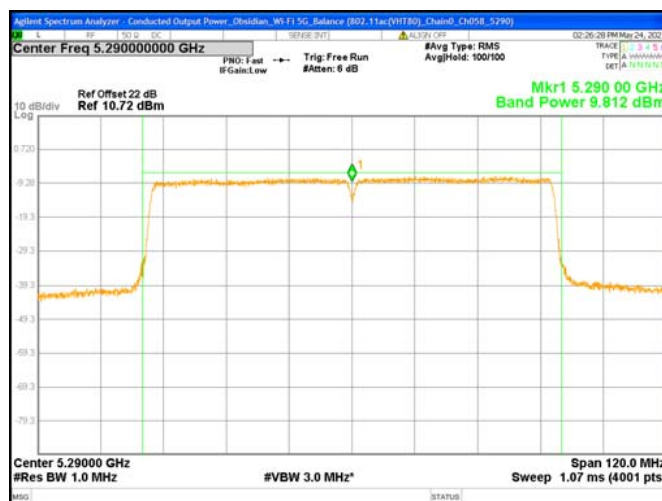
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT40) Mode Ch159**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch042**



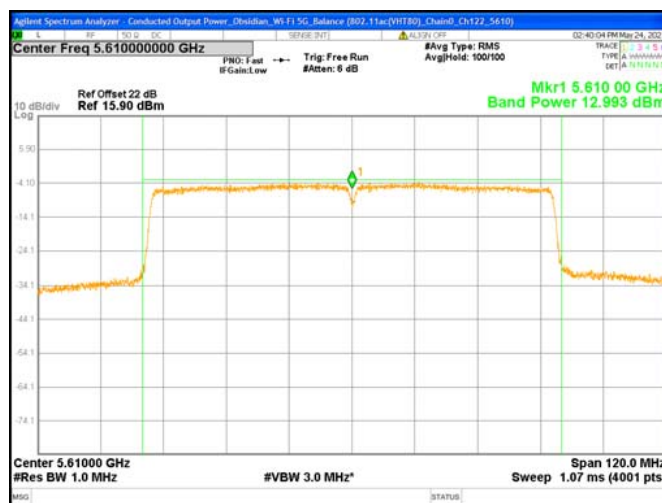
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch058**



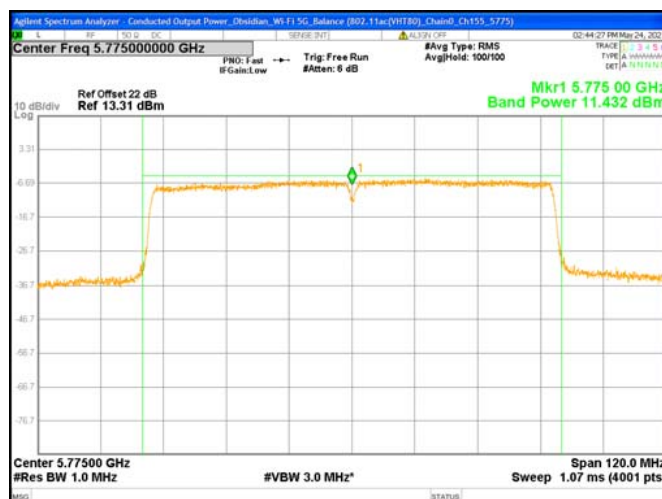
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch106**



**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch122**



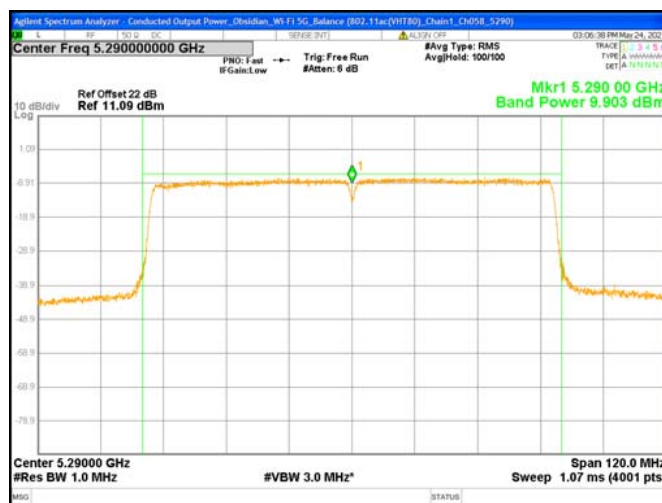
**Chain0 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch155**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch042**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch058**



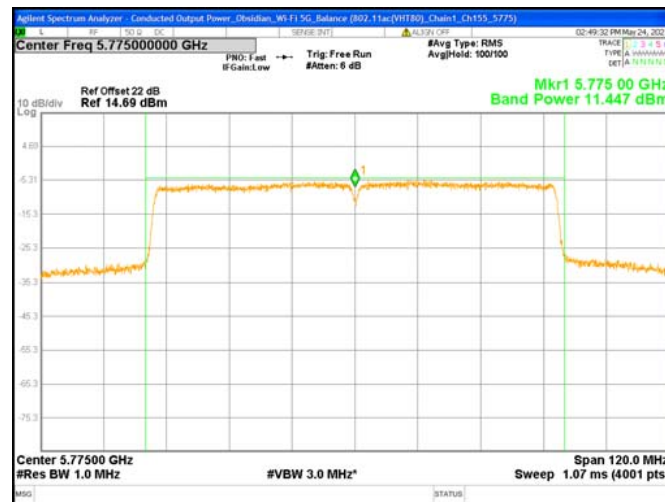
**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch106**



**Chain1 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch122**



### Chain1 : Conducted Power & EIRP @ 802.11ac(VHT80) Mode Ch155



### 3. Power Spectrum Density

#### 3.1 Limit for power spectrum density

| Operating Frequency (MHz) | Power density limit |
|---------------------------|---------------------|
| 5150~5725                 | < 11 dBm/1MHz       |
| 5725~5850                 | < 30 dBm/500kHz     |

#### 3.2 Measuring instrument setting

| Spectrum analyzer settings (5150~5725MHz) |                         |
|-------------------------------------------|-------------------------|
| Spectrum Analyzer function                | Setting                 |
| Detector                                  | RMS                     |
| RBW                                       | =1MHz                   |
| VBW                                       | $\geq 3$ MHz            |
| Sweep                                     | Auto couple             |
| Trace                                     | Average                 |
| Span                                      | Encompass the 26 dB EBW |
| Attenuation                               | Auto                    |
| Sweep point                               | $\geq 2$ Span / RBW     |

| Spectrum analyzer settings (5725~5850MHz) |                        |
|-------------------------------------------|------------------------|
| Spectrum Analyzer function                | Setting                |
| Detector                                  | RMS                    |
| RBW                                       | =100kHz                |
| VBW                                       | $\geq 300$ kHz         |
| Sweep                                     | Auto couple            |
| Trace                                     | Average                |
| Span                                      | Encompass the 6 dB EBW |
| Attenuation                               | Auto                   |
| Sweep point                               | $\geq 2$ Span / RBW    |

### 3.3 Test procedure

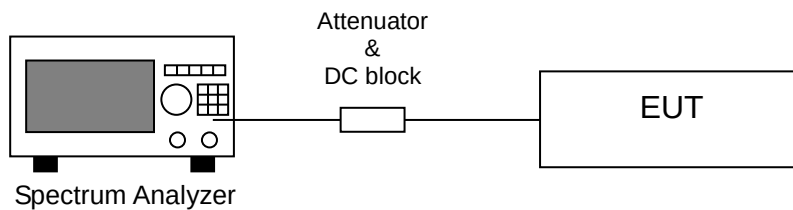
Set relevant parameter according to clause 4.3.

Trace average at least 100 traces in power averaging mode.

Compute power by integrating the spectrum across the 26 dB or 6dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result, whereas RBW ( $< 500 \text{ KHz}$ ) is the reduced resolution bandwidth of the spectrum analyzer set during measurement. The RBW is 100 kHz. So, we will add 6.989 to the results.

### 3.4 Test diagram



## TEST REPORT

### 3.5 Test results

|                         |                       |
|-------------------------|-----------------------|
| Temperature (°C) :      | 27                    |
| Relative Humidity (%) : | 58                    |
| Test date :             | 2021/5/20 - 2021/5/24 |

| Mode           | Channel | Frequency (MHz) | PSD   |      | Duty Factor | Result | Limit (dBm) | Margin (dB) |
|----------------|---------|-----------------|-------|------|-------------|--------|-------------|-------------|
|                |         |                 | (dBm) | (mW) |             |        |             |             |
| 802.11a Chain0 | 36      | 5180            | 2.22  | 1.67 | 0.31        | 2.53   | 11          | -8.78       |
|                | 44      | 5220            | 2.78  | 1.90 | 0.31        | 3.09   | 11          | -8.22       |
|                | 48      | 5240            | 3.11  | 2.05 | 0.31        | 3.42   | 11          | -7.89       |
|                | 52      | 5260            | 3.78  | 2.39 | 0.31        | 4.09   | 11          | -7.22       |
|                | 60      | 5300            | 4.17  | 2.61 | 0.31        | 4.48   | 11          | -6.83       |
|                | 64      | 5320            | 4.39  | 2.75 | 0.31        | 4.70   | 11          | -6.61       |
|                | 100     | 5500            | 6.49  | 4.46 | 0.31        | 6.80   | 11          | -4.51       |
|                | 120     | 5600            | 6.89  | 4.89 | 0.31        | 7.20   | 11          | -4.11       |
|                | 140     | 5700            | 6.97  | 4.98 | 0.31        | 7.28   | 11          | -4.03       |
| 802.11a Chain1 | 36      | 5180            | 2.54  | 1.79 | 0.31        | 2.85   | 11          | -8.46       |
|                | 44      | 5220            | 2.93  | 1.96 | 0.31        | 3.24   | 11          | -8.07       |
|                | 48      | 5240            | 3.05  | 2.02 | 0.31        | 3.36   | 11          | -7.95       |
|                | 52      | 5260            | 3.22  | 2.10 | 0.31        | 3.53   | 11          | -7.78       |
|                | 60      | 5300            | 4.11  | 2.58 | 0.31        | 4.42   | 11          | -6.89       |
|                | 64      | 5320            | 4.36  | 2.73 | 0.31        | 4.67   | 11          | -6.64       |
|                | 100     | 5500            | 6.95  | 4.95 | 0.31        | 7.26   | 11          | -4.05       |
|                | 120     | 5600            | 6.72  | 4.70 | 0.31        | 7.03   | 11          | -4.28       |
|                | 140     | 5700            | 6.98  | 4.99 | 0.31        | 7.29   | 11          | -4.02       |

**TEST REPORT**

| Mode           | Channel | Frequency (MHz) | RBW factor | PSD in 100kHz | PSD in 500kHz |       | Duty Factor | Result | Limit (dBm) | Margin (dB) |
|----------------|---------|-----------------|------------|---------------|---------------|-------|-------------|--------|-------------|-------------|
|                |         |                 |            |               | (dBm)         | (mW)  |             |        |             |             |
| 802.11a Chain0 | 149     | 5745            | -6.99      | 3.39          | 10.38         | 10.91 | 0.31        | 10.69  | 30          | -19.62      |
|                | 157     | 5785            | -6.99      | 3.36          | 10.35         | 10.84 | 0.31        | 10.66  | 30          | -19.65      |
|                | 165     | 5825            | -6.99      | 2.42          | 9.41          | 8.73  | 0.31        | 9.72   | 30          | -20.59      |
| 802.11a Chain1 | 149     | 5745            | -6.99      | 3.55          | 10.54         | 11.32 | 0.31        | 10.85  | 30          | -19.46      |
|                | 157     | 5785            | -6.99      | 3.23          | 10.22         | 10.52 | 0.31        | 10.53  | 30          | -19.78      |
|                | 165     | 5825            | -6.99      | 2.78          | 9.77          | 9.48  | 0.31        | 10.08  | 30          | -20.23      |

| Mode                      | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |       | Duty Factor | Result (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------|---------|-----------------|-----------|--------|-----------|-------|-------------|--------------|-------------|-------------|
|                           |         |                 | chain0    | chain1 | mW        | dBm   |             |              |             |             |
| 802.11ac (VHT20) Chain0+1 | 36      | 5180            | 1.74      | 2.11   | 3.12      | 4.94  | 0.13        | 5.07         | 11.00       | -5.93       |
|                           | 44      | 5220            | 2.43      | 2.70   | 3.61      | 5.58  | 0.13        | 5.71         | 11.00       | -5.29       |
|                           | 48      | 5240            | 2.46      | 3.29   | 3.90      | 5.91  | 0.13        | 6.04         | 11.00       | -4.96       |
|                           | 52      | 5260            | 2.79      | 1.99   | 3.48      | 5.42  | 0.13        | 5.55         | 11.00       | -5.45       |
|                           | 60      | 5300            | 2.46      | 2.61   | 3.59      | 5.55  | 0.13        | 5.68         | 11.00       | -5.32       |
|                           | 64      | 5320            | 3.61      | 3.18   | 4.38      | 6.41  | 0.13        | 6.54         | 11.00       | -4.46       |
|                           | 100     | 5500            | 4.68      | 5.12   | 6.19      | 7.92  | 0.13        | 8.05         | 11.00       | -2.95       |
|                           | 120     | 5600            | 5.54      | 5.52   | 7.15      | 8.54  | 0.13        | 8.67         | 11.00       | -2.33       |
|                           | 140     | 5700            | 6.14      | 4.48   | 6.92      | 8.40  | 0.13        | 8.53         | 11.00       | -2.47       |
| 802.11ac (VHT40) Chain0+1 | 38      | 5190            | -4.18     | -3.85  | 0.79      | -1.00 | 0.38        | -0.62        | 11.00       | -11.62      |
|                           | 46      | 5230            | -3.02     | -3.00  | 1.00      | 0.00  | 0.38        | 0.38         | 11.00       | -10.62      |
|                           | 54      | 5270            | -1.73     | -2.14  | 1.28      | 1.08  | 0.38        | 1.46         | 11.00       | -9.54       |
|                           | 62      | 5310            | -3.11     | -3.70  | 0.92      | -0.38 | 0.38        | 0.00         | 11.00       | -11.00      |
|                           | 102     | 5510            | -2.47     | -3.13  | 1.05      | 0.22  | 0.38        | 0.61         | 11.00       | -10.39      |
|                           | 118     | 5590            | 0.17      | 0.20   | 2.09      | 3.20  | 0.38        | 3.58         | 11.00       | -7.42       |
|                           | 134     | 5670            | -0.64     | -1.03  | 1.65      | 2.18  | 0.38        | 2.56         | 11.00       | -8.44       |
| 802.11ac (VHT80) Chain0+1 | 42      | 5210            | -9.45     | -10.10 | 0.21      | -6.75 | 0.21        | -6.54        | 11.00       | -17.54      |
|                           | 58      | 5290            | -7.43     | -7.09  | 0.38      | -4.25 | 0.21        | -4.03        | 11.00       | -15.03      |
|                           | 106     | 5530            | -7.10     | -6.89  | 0.40      | -3.98 | 0.21        | -3.77        | 11.00       | -14.77      |
|                           | 122     | 5610            | -3.29     | -3.62  | 0.90      | -0.44 | 0.21        | -0.23        | 11.00       | -11.23      |

**TEST REPORT**

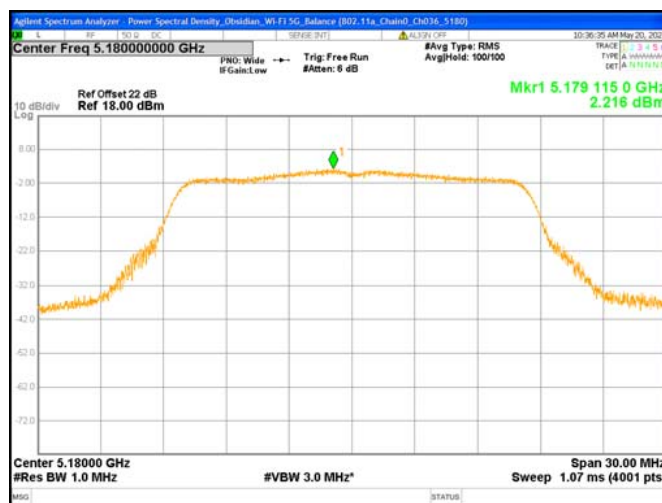
| Mode                      | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |       | RBW factor | PSD in 500kHz (dBm) | Duty Factor | Result (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------|---------|-----------------|-----------|--------|-----------|-------|------------|---------------------|-------------|--------------|-------------|-------------|
|                           |         |                 | chain0    | chain1 | mW        | dBm   |            |                     |             |              |             |             |
| 802.11ac (VHT20) Chain0+1 | 149     | 5745            | 1.30      | 1.32   | 2.70      | 4.32  | 6.99       | 11.31               | 0.13        | 11.44        | 30.00       | -18.56      |
|                           | 157     | 5785            | 1.33      | 1.39   | 2.74      | 4.37  | 6.99       | 11.36               | 0.13        | 11.49        | 30.00       | -18.51      |
|                           | 165     | 5825            | 0.57      | 1.63   | 2.60      | 4.14  | 6.99       | 11.13               | 0.13        | 11.27        | 30.00       | -18.73      |
| 802.11ac (VHT40) Chain0+1 | 151     | 5755            | -3.08     | -4.13  | 0.88      | -0.56 | 6.99       | 6.43                | 0.38        | 6.81         | 30.00       | -23.19      |
|                           | 159     | 5795            | -3.37     | -4.27  | 0.83      | -0.79 | 6.99       | 6.20                | 0.38        | 6.59         | 30.00       | -23.41      |
| 802.11ac (VHT80) Chain0+1 | 155     | 5775            | -8.54     | -8.22  | 0.29      | -5.37 | 6.99       | 1.62                | 0.21        | 1.84         | 30.00       | -28.16      |

Result=Total Power+Duty Factor

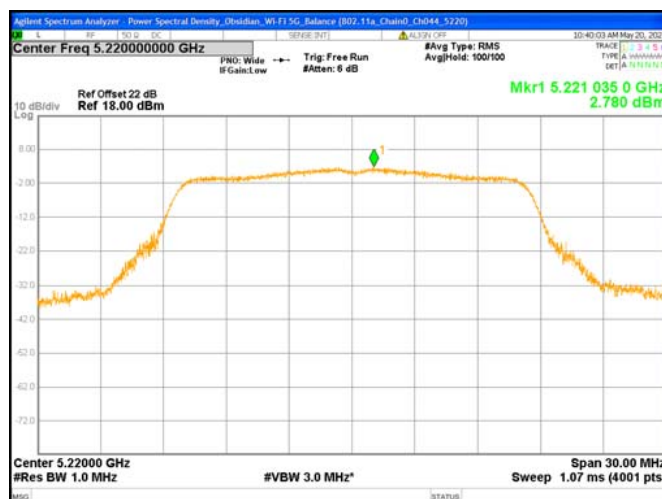
Note : RBW Correction in 5725~5850MHz :

$10\log(500\text{kHz}/100\text{kHz})$

### Chain0 : Power Spectral Density @ 802.11a Mode Ch036



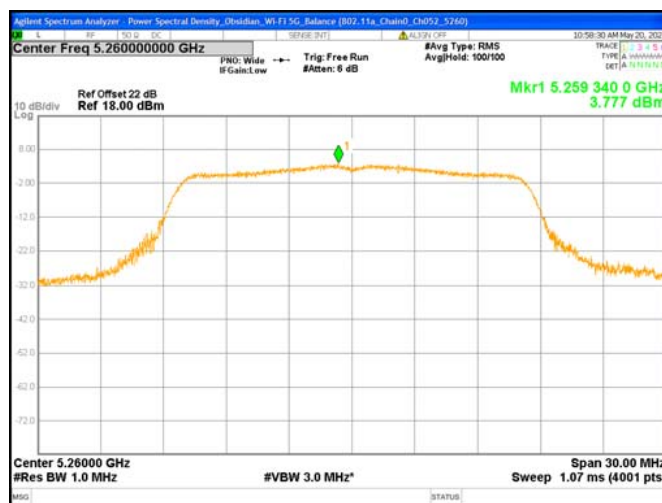
### Chain0 : Power Spectral Density @ 802.11a Mode Ch044



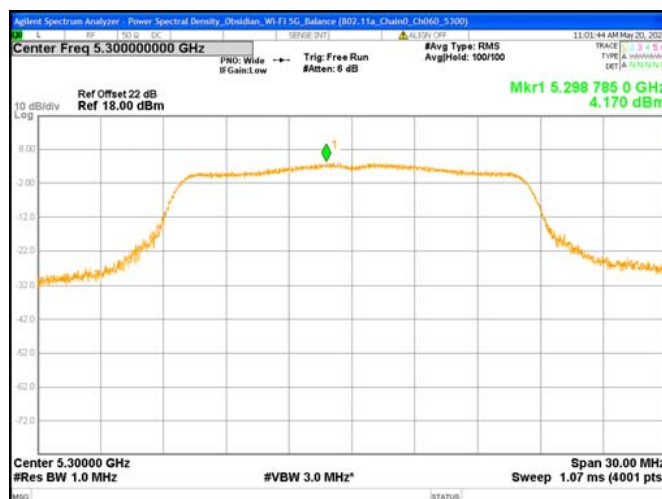
### Chain0 : Power Spectral Density @ 802.11a Mode Ch048



### Chain0 : Power Spectral Density @ 802.11a Mode Ch052



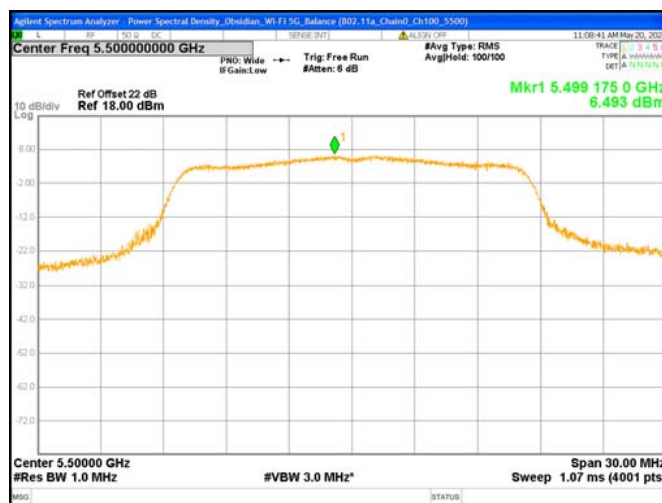
### Chain0 : Power Spectral Density @ 802.11a Mode Ch060



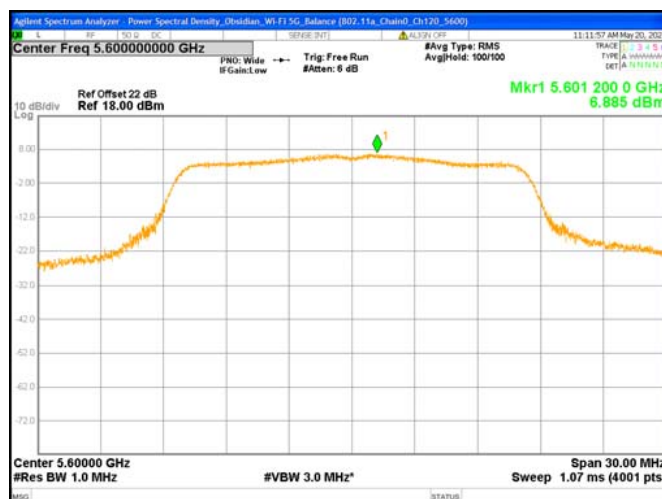
### Chain0 : Power Spectral Density @ 802.11a Mode Ch064



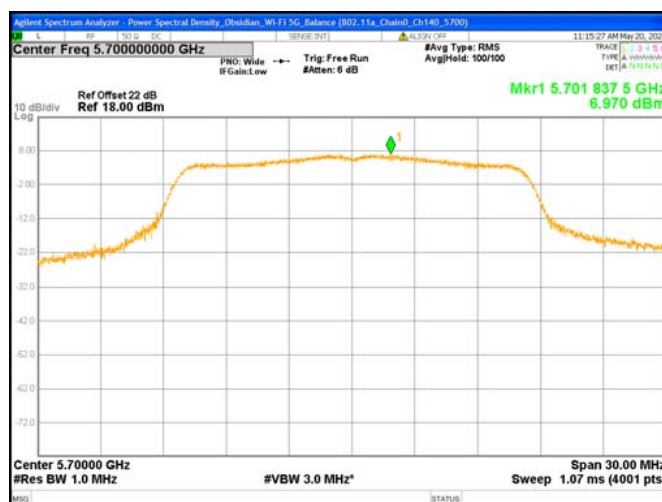
### Chain0 : Power Spectral Density @ 802.11a Mode Ch100



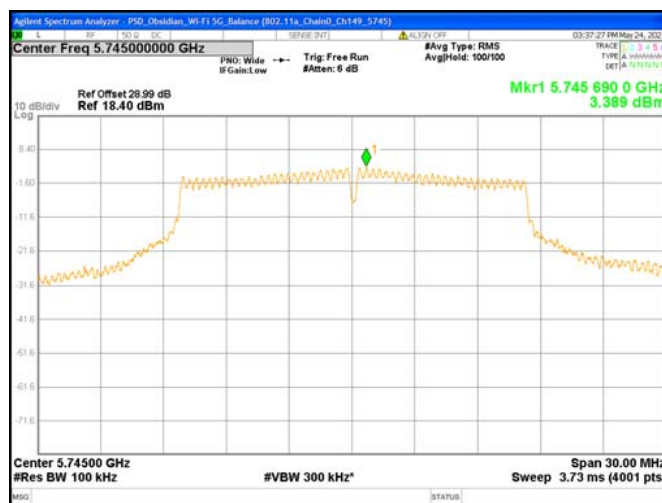
### Chain0 : Power Spectral Density @ 802.11a Mode Ch120



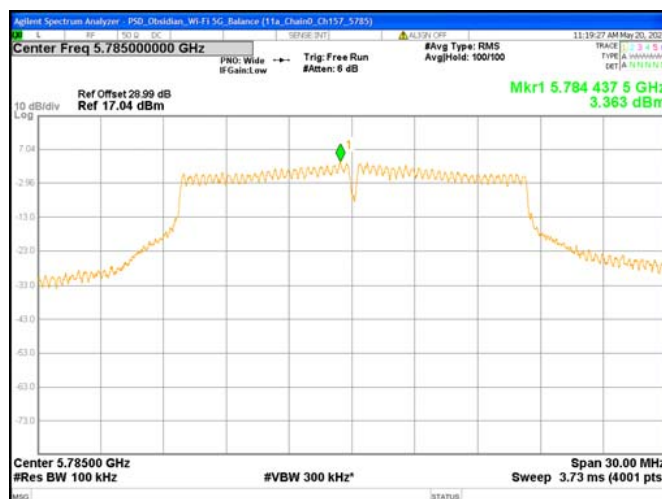
### Chain0 : Power Spectral Density @ 802.11a Mode Ch140



### Chain0 : Power Spectral Density @ 802.11a Mode Ch149



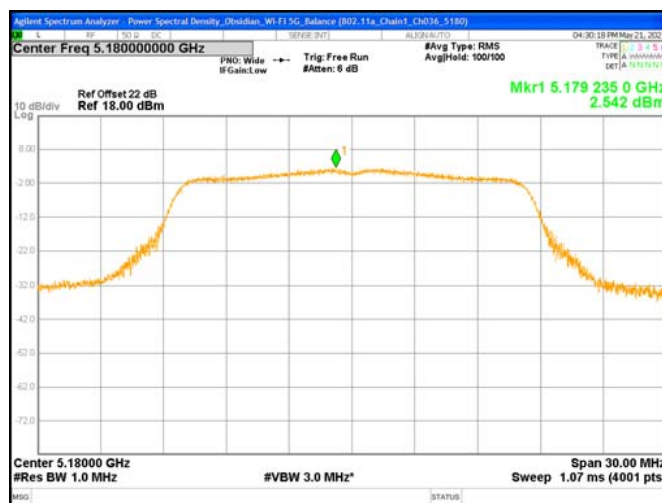
### Chain0 : Power Spectral Density @ 802.11a Mode Ch157



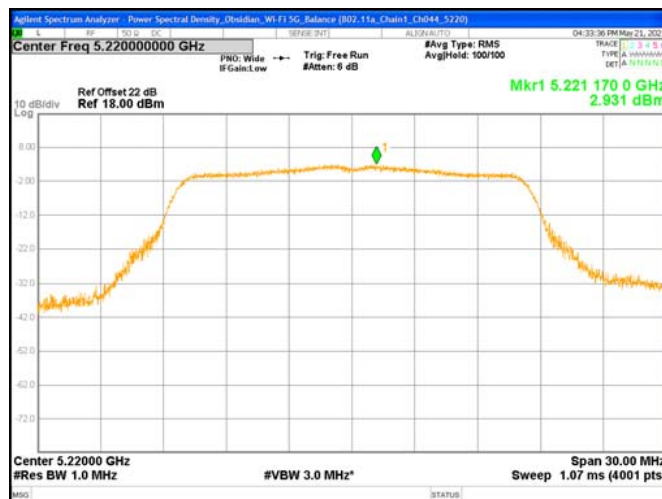
### Chain0 : Power Spectral Density @ 802.11a Mode Ch165



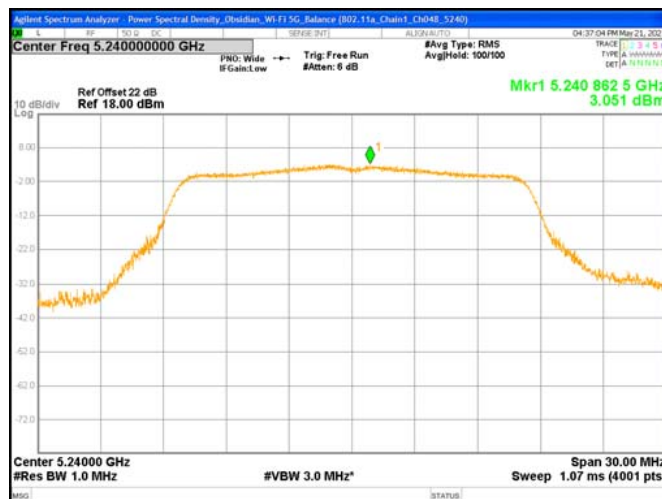
### Chain1 : Power Spectral Density @ 802.11a Mode Ch036



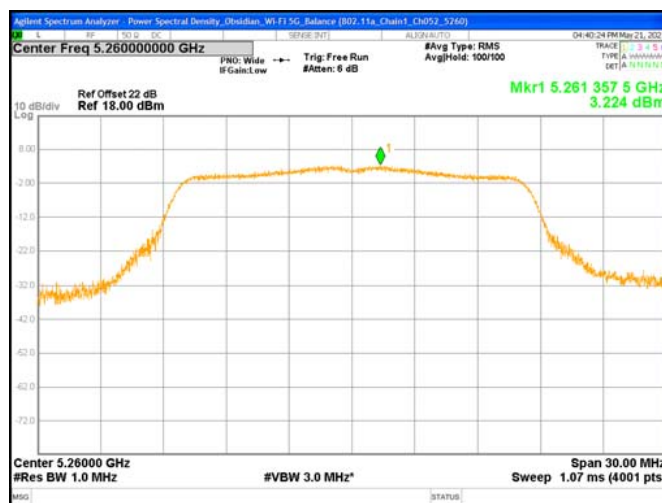
### Chain1 : Power Spectral Density @ 802.11a Mode Ch044



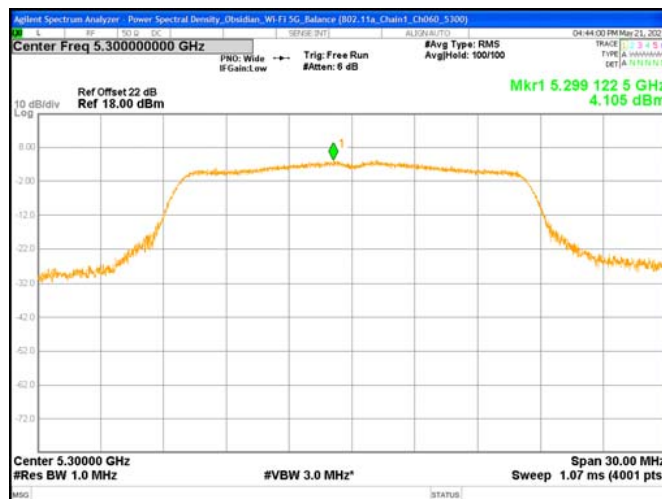
### Chain1 : Power Spectral Density @ 802.11a Mode Ch048



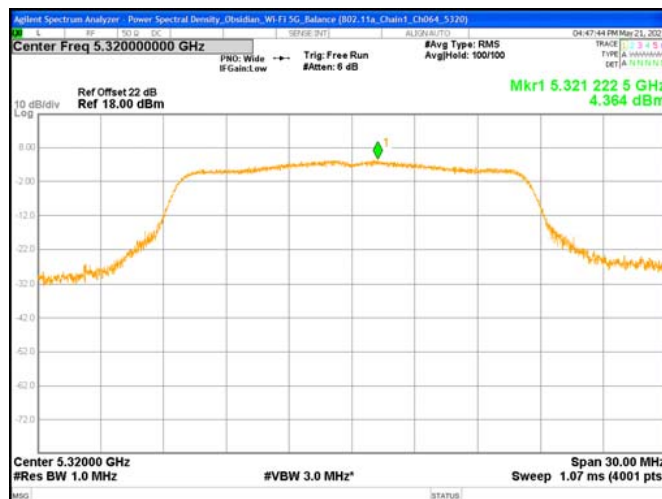
### Chain1 : Power Spectral Density @ 802.11a Mode Ch052



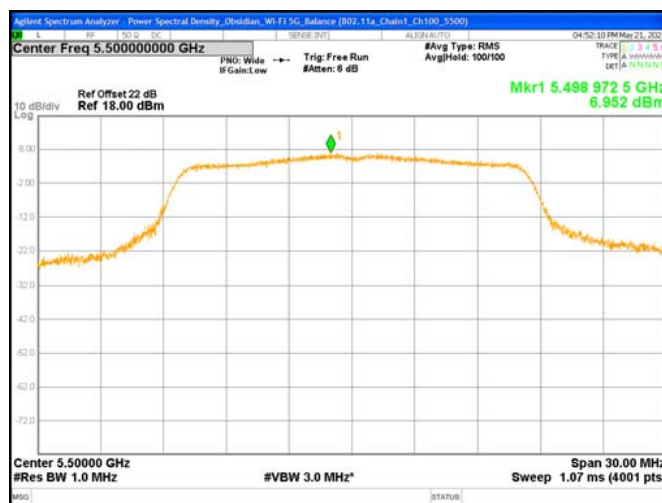
### Chain1 : Power Spectral Density @ 802.11a Mode Ch060



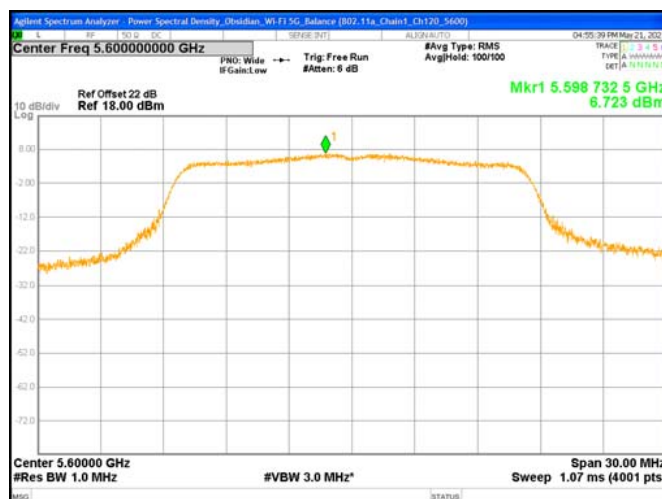
### Chain1 : Power Spectral Density @ 802.11a Mode Ch064



### Chain1 : Power Spectral Density @ 802.11a Mode Ch100



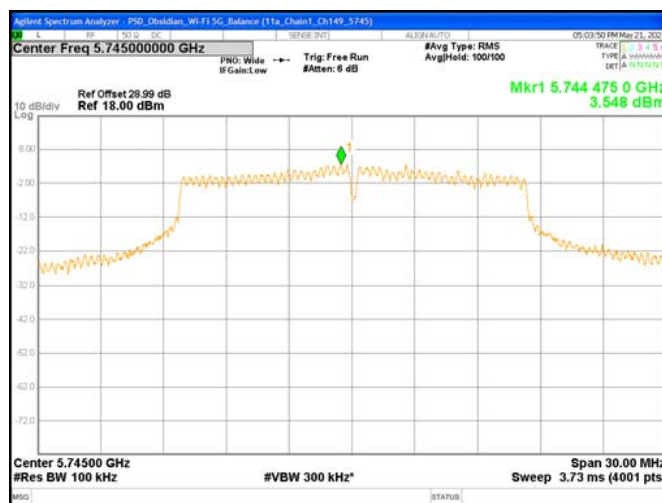
### Chain1 : Power Spectral Density @ 802.11a Mode Ch120



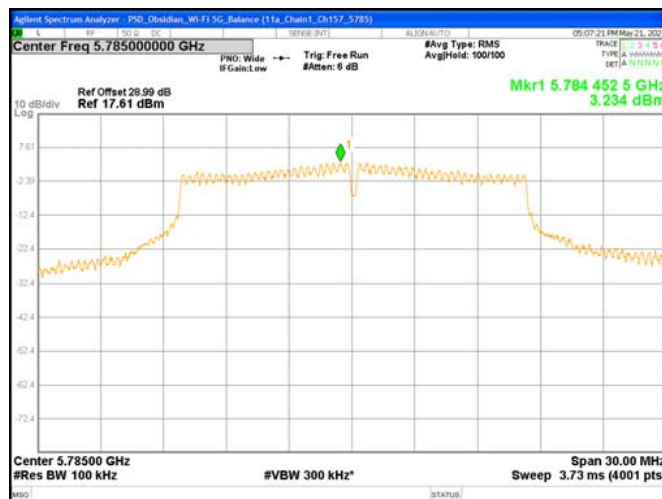
### Chain1 : Power Spectral Density @ 802.11a Mode Ch140



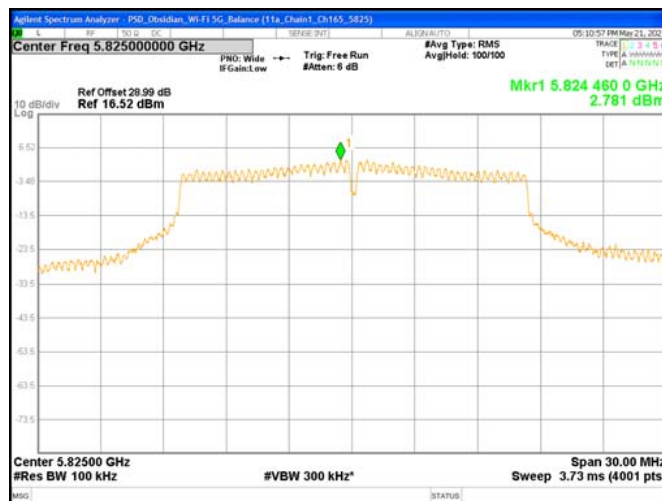
### Chain1 : Power Spectral Density @ 802.11a Mode Ch149



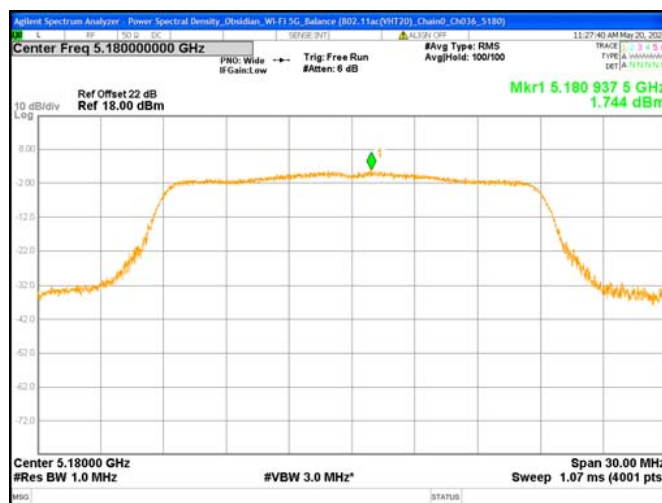
### Chain1 : Power Spectral Density @ 802.11a Mode Ch157



### Chain1 : Power Spectral Density @ 802.11a Mode Ch165



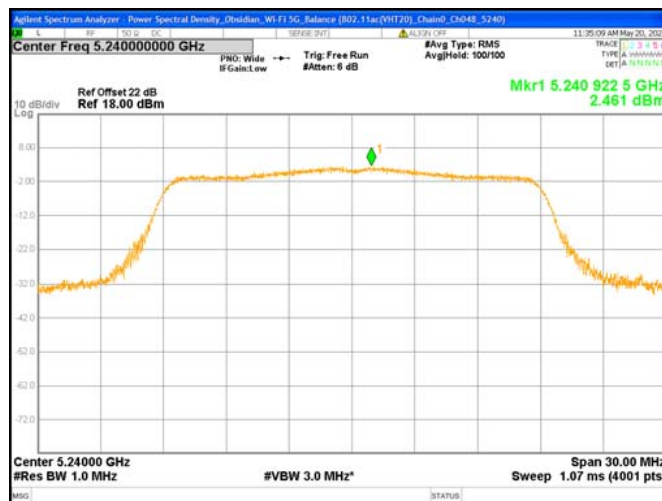
**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch036**



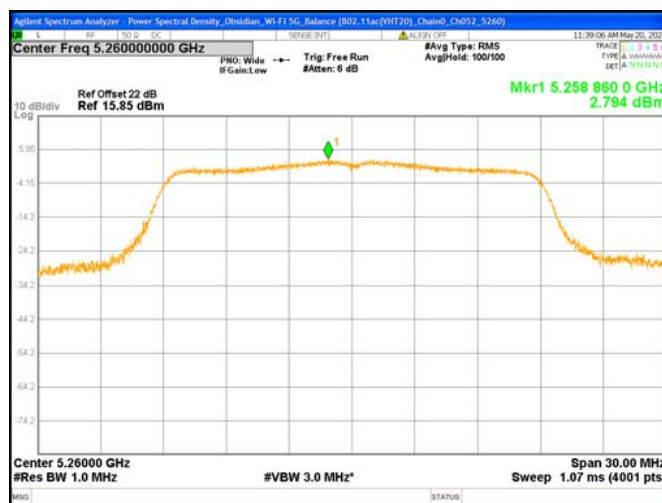
**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch044**



**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch048**



## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch052



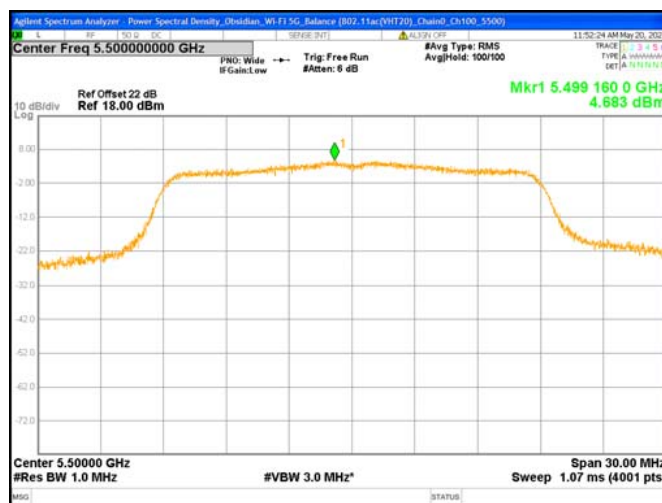
## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch060



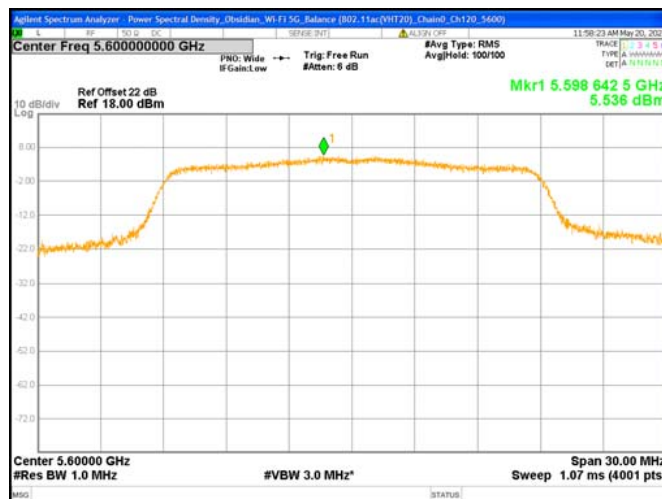
## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch064



**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch100**



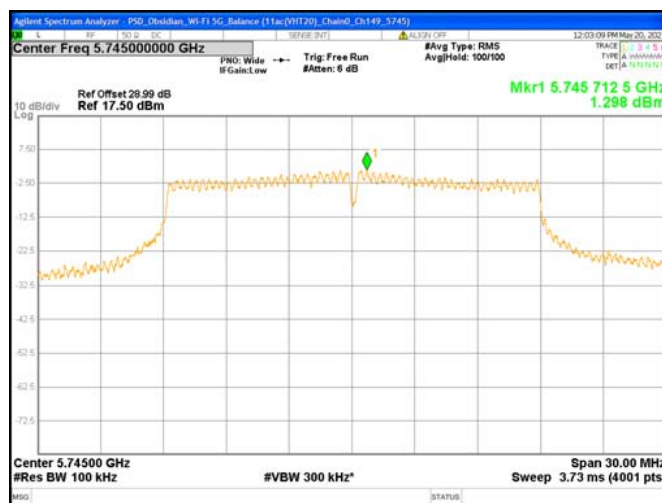
**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch120**



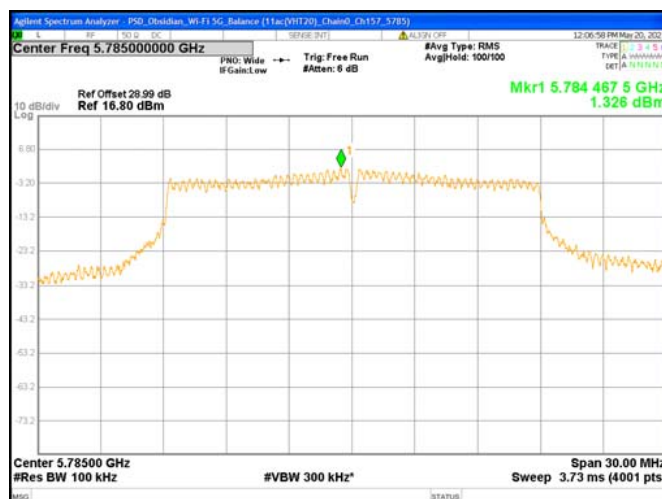
**Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch140**



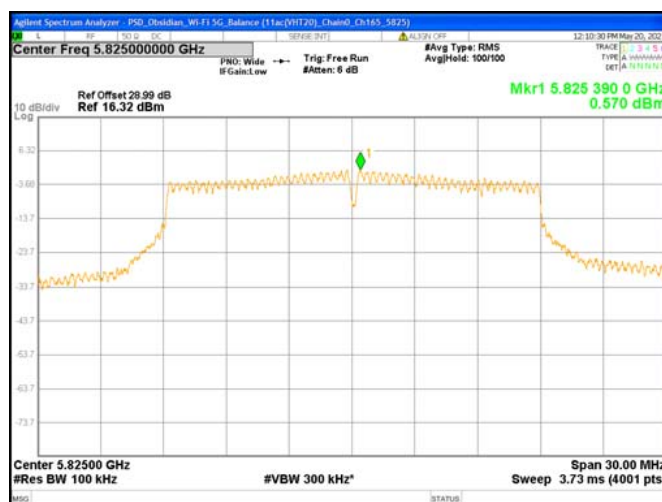
## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch149



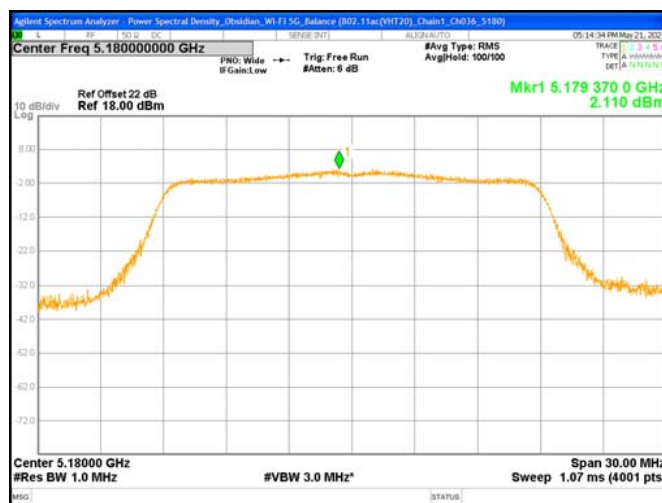
## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch157



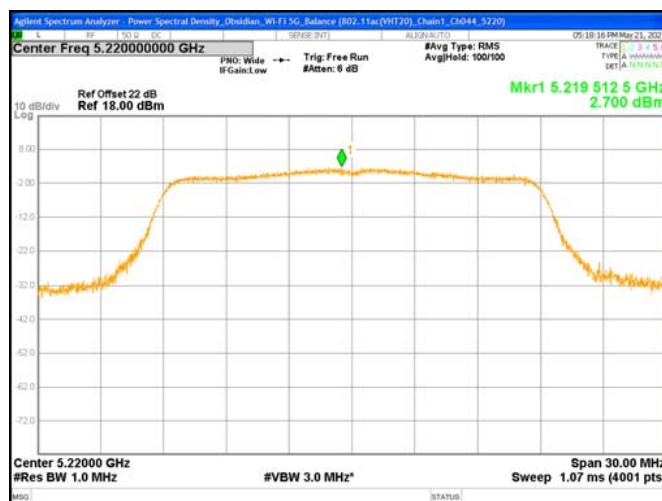
## Chain0 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch165



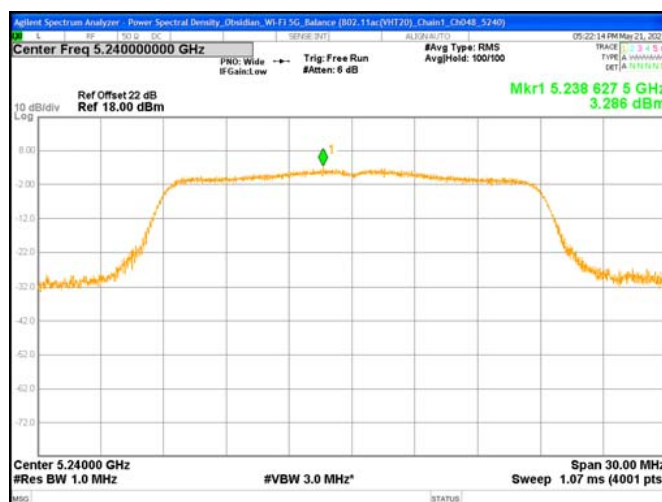
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch036**



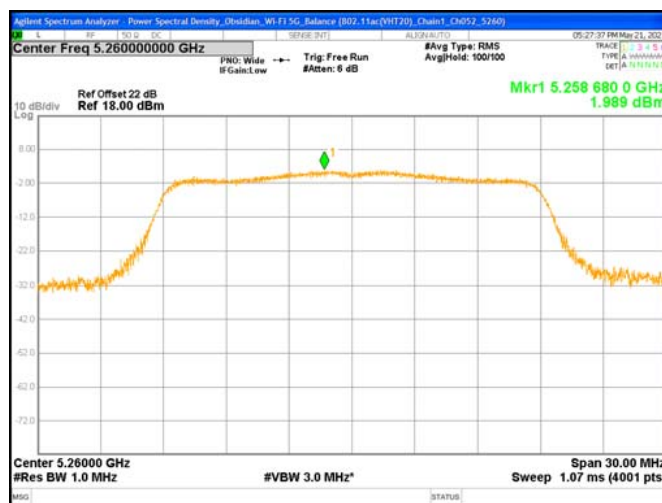
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch044**



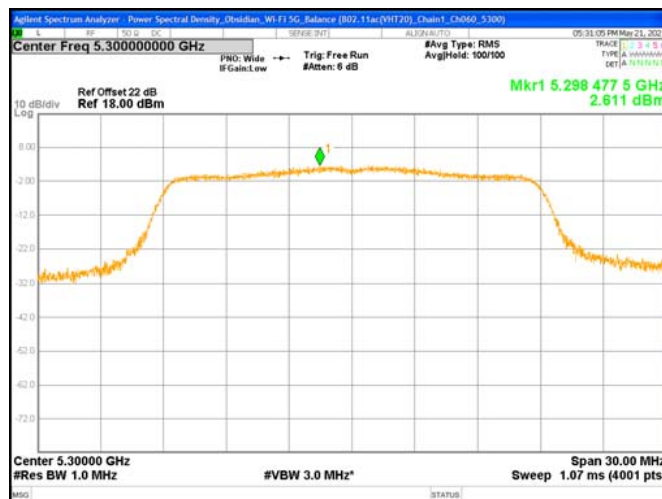
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch048**



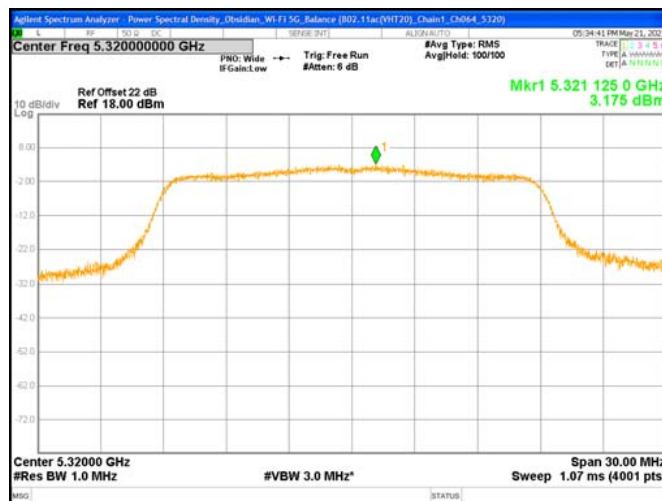
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch052**



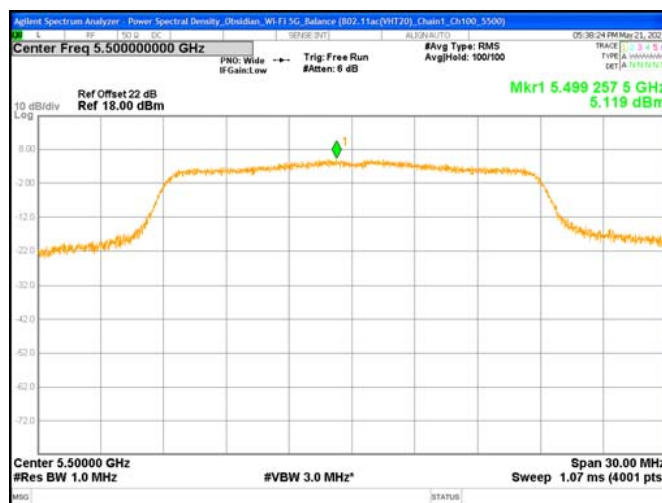
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch060**



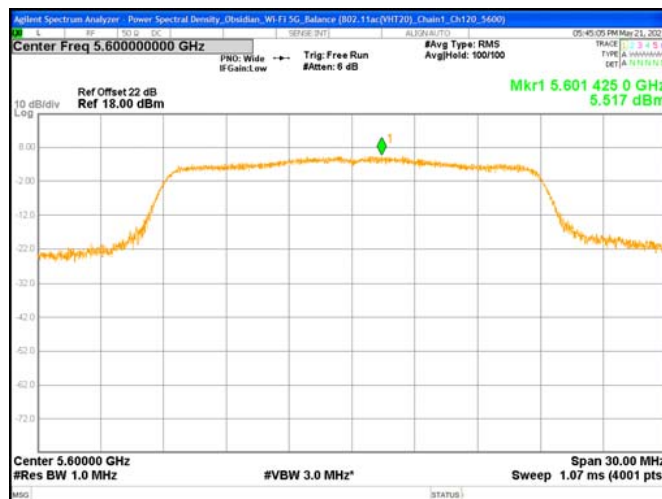
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch064**



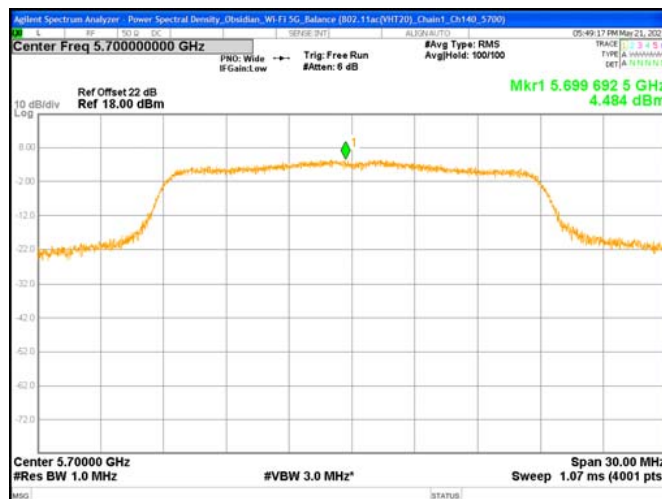
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch100**



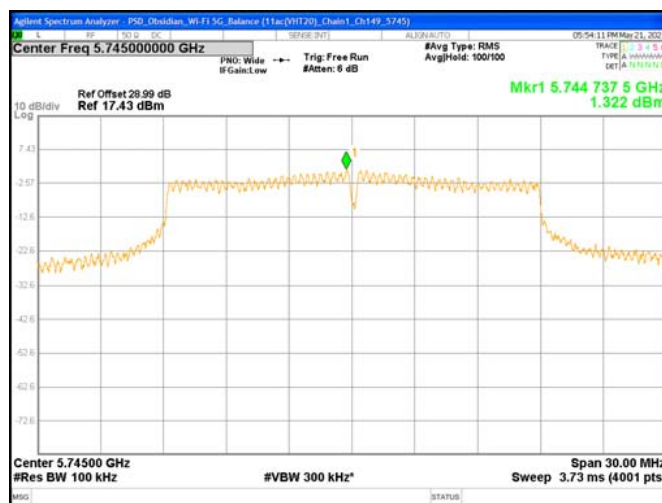
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch120**



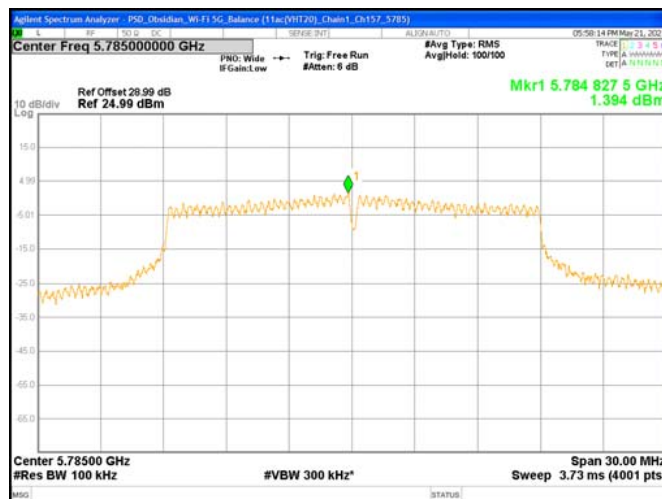
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch140**



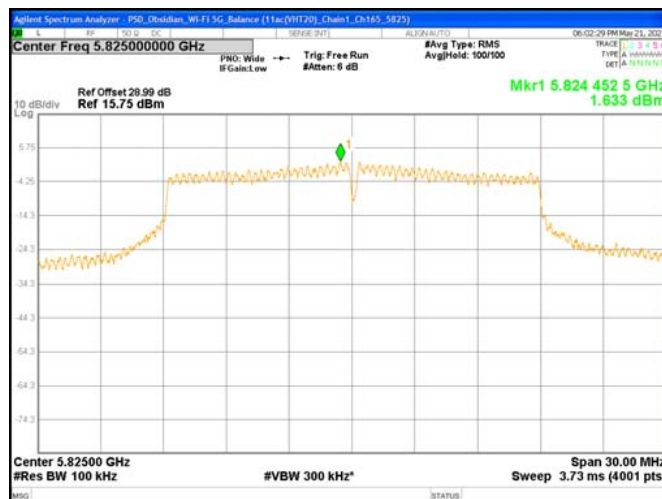
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch149**



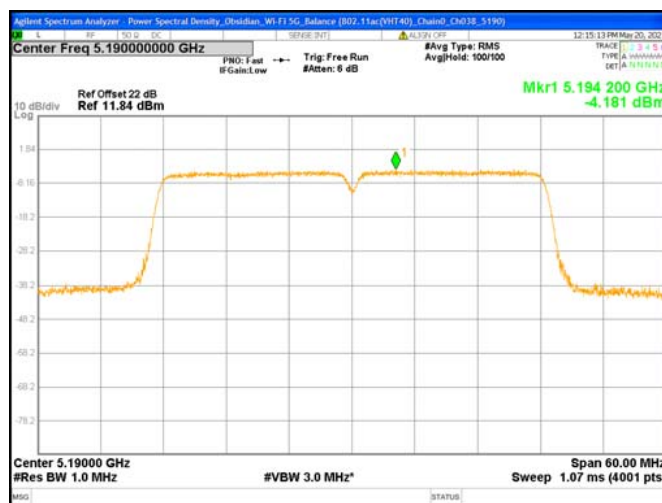
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch157**



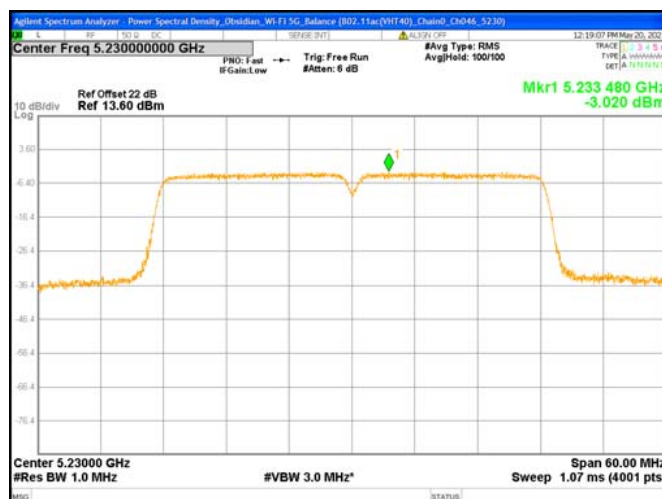
**Chain1 : Power Spectral Density @ 802.11ac(VHT20) Mode Ch165**



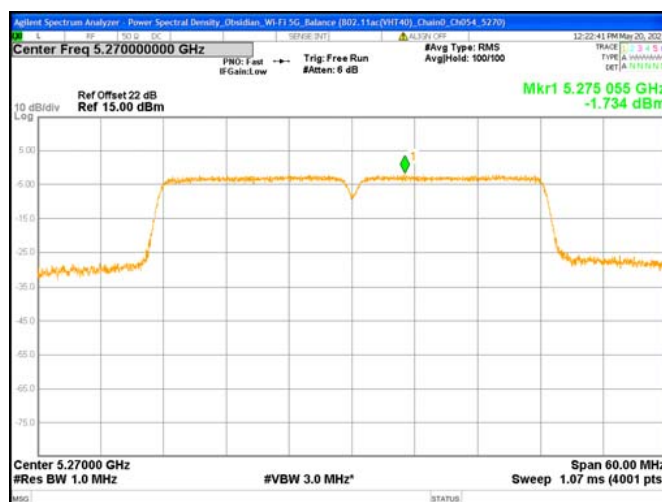
## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch038



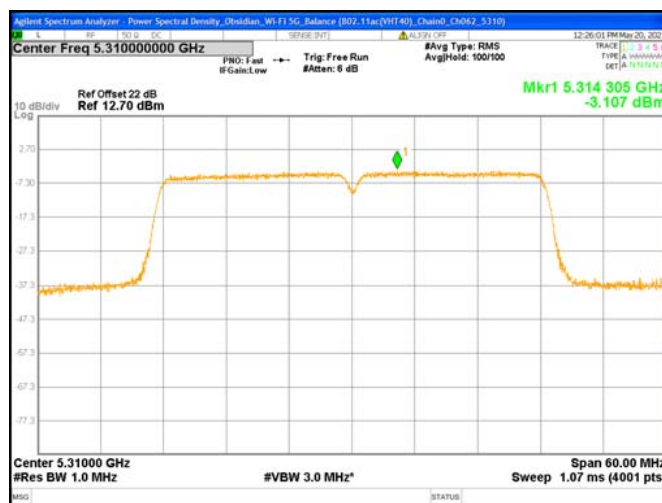
## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch046



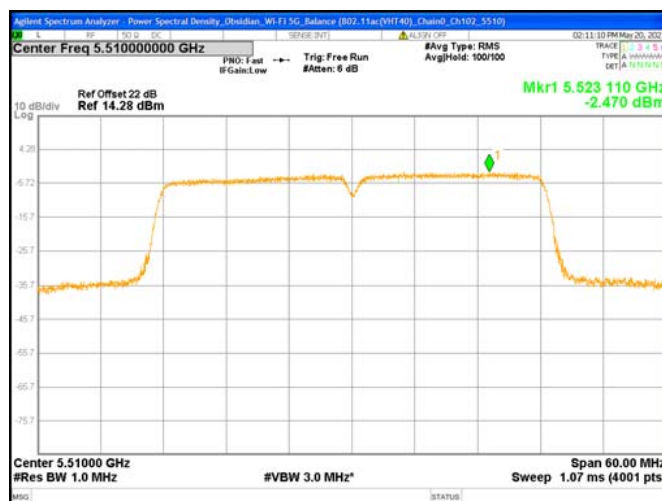
## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch054



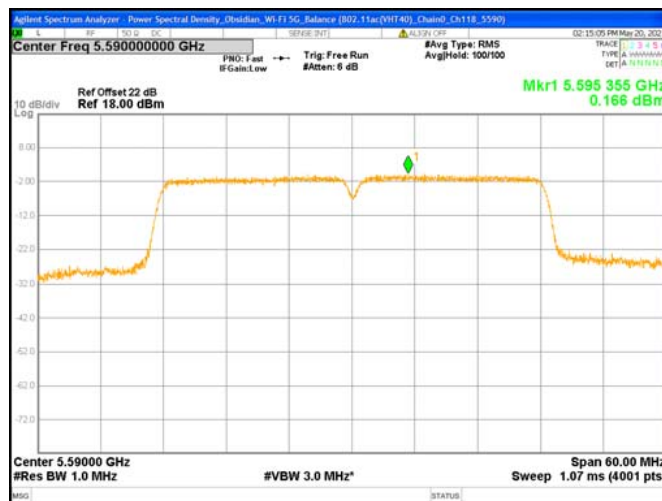
**Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch062**



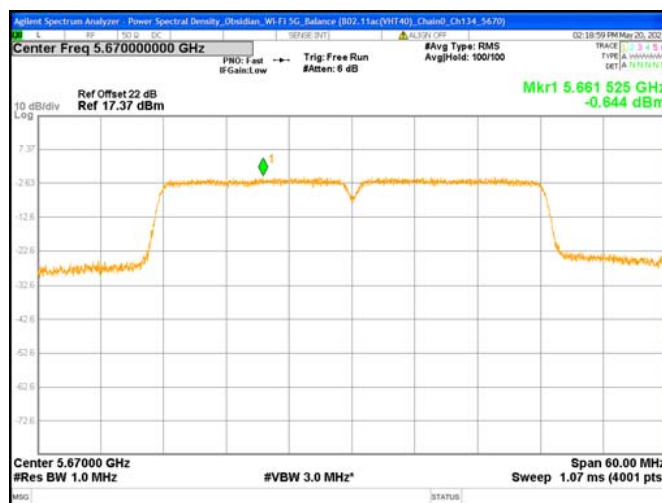
**Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch102**



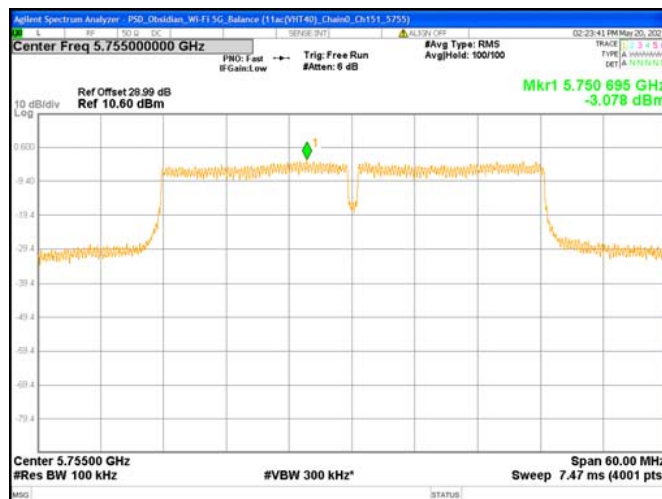
**Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch118**



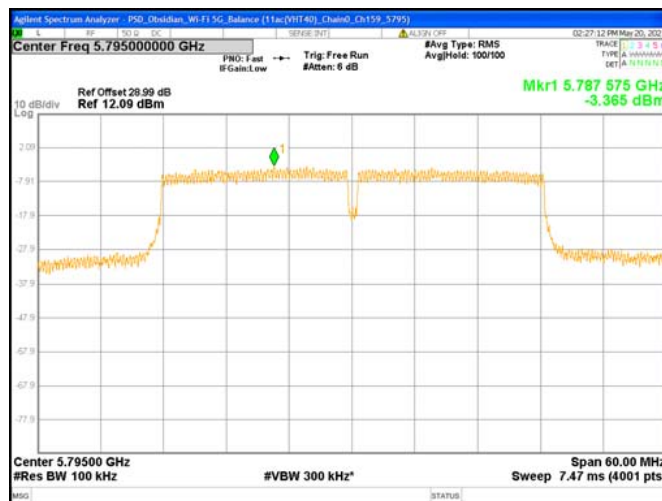
## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch134



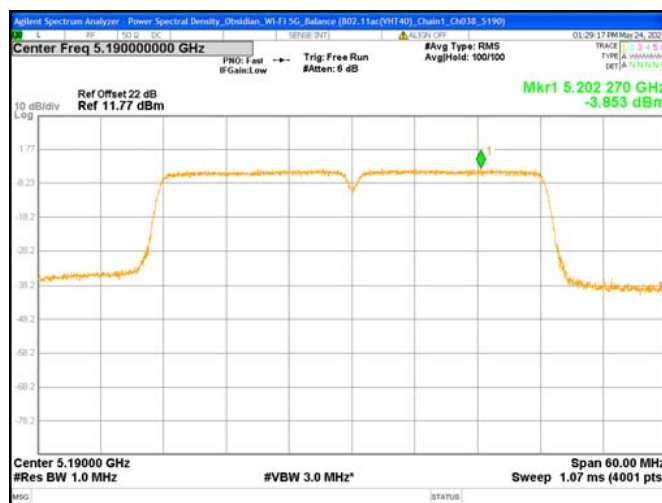
## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch151



## Chain0 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch159



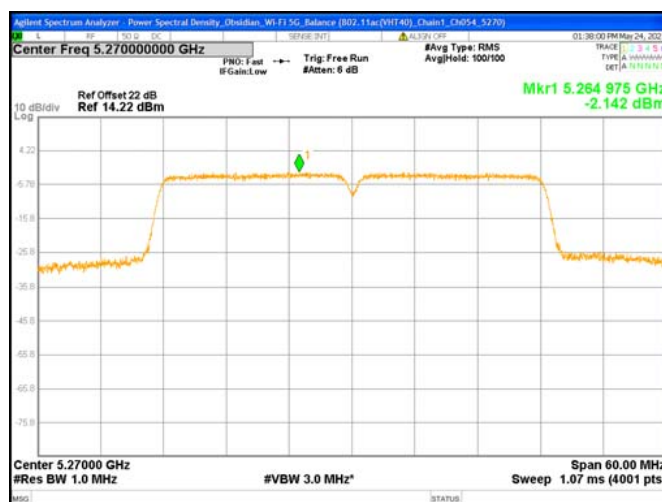
## Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch038



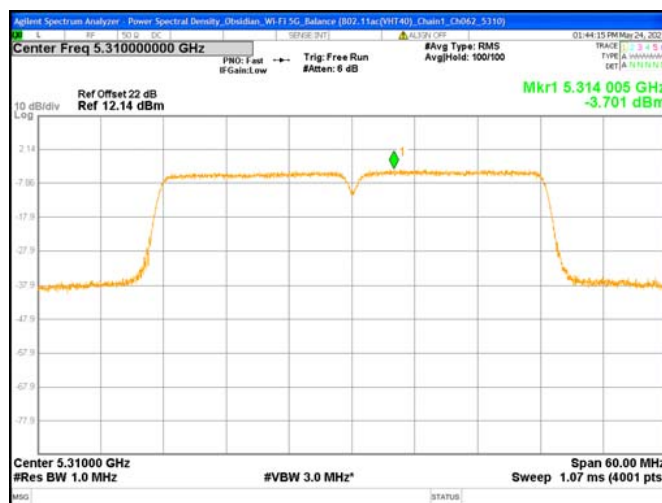
## Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch046



## Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch054



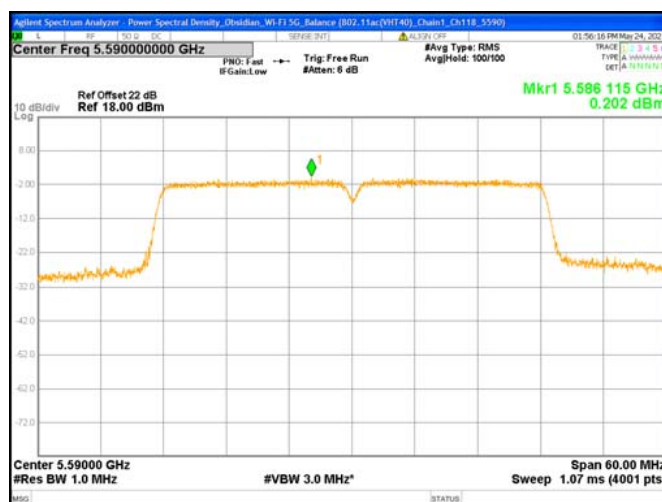
**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch062**



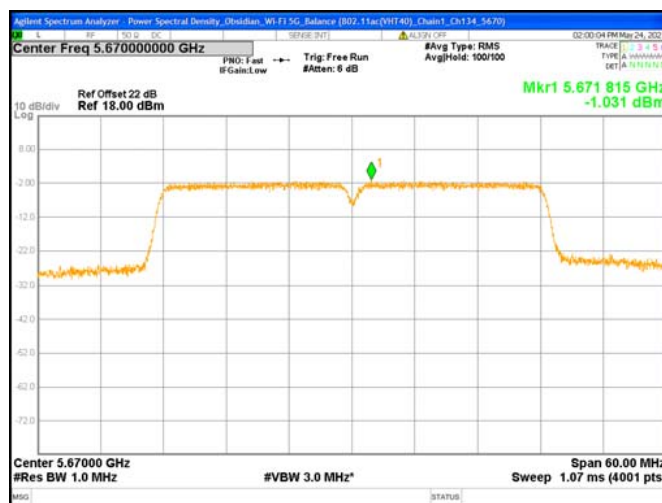
**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch102**



**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch118**



**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch134**



**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch151**



**Chain1 : Power Spectral Density @ 802.11ac(VHT40) Mode Ch159**

