# APPENDIX B – TEST DATA OF RADIATED EMISSION

## Radiated Emissions Band Edge-WLAN 5G

**The measurement results are obtained as described below:**
**Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation: (104.10 dBuV/m) = (57.20 dBμV) + (12.40 dB) + (34.50 dB), the corresponding frequency is 5180MHz.**

**【5150-5250】**

- **802.11a**

**Carrier Frequency (MHz): 5180**
**Channel No.: 36**
**Test Mode: 802.11a**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5180.0 | 57.20 | 104.10 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | 11.70 | 58.60 | -15.40 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5180.0 | 35.40 | 82.30 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | -10.50 | 36.40 | -17.60 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5240**
**Channel No.: 48**
**Test Mode: 802.11a**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5240.0 | 50.70 | 97.60 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | 13.70 | 60.60 | -13.40 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5240.0 | 36.20 | 83.10 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | -5.40 | 41.50 | -12.50 | 54.00 | 12.40 | 34.50 |

- **802.11n (HT20)**

**Carrier Frequency (MHz): 5180**
**Channel No.: 36**
**Test Mode: 802.11n (HT20)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5180.0 | 40.00 | 86.90 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | 6.10 | 53.00 | -21.00 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5180.0 | 27.50 | 74.40 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | -8.10 | 38.80 | -15.20 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5240**
**Channel No.: 48**
**Test Mode: 802.11n (HT20)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5240.0 | 47.60 | 94.50 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | 8.20 | 55.10 | -18.90 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5240.0 | 24.30 | 71.20 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | -4.30 | 42.60 | -11.40 | 54.00 | 12.40 | 34.50 |

- **802.11n (HT40)**

**Carrier Frequency (MHz): 5190**
**Channel No.: 38**
**Test Mode: 802.11n (HT40)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5190.0 | 43.40 | 90.30 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | 10.80 | 57.70 | -16.30 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5190.0 | 28.00 | 74.90 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | -10.10 | 36.80 | -17.20 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5230**
**Channel No.: 46**
**Test Mode: 802.11n (HT40)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5230.0 | 42.50 | 89.40 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | 21.40 | 68.30 | -5.70 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5230.0 | 28.70 | 75.60 | N/A | N/A | 12.40 | 34.50 |
| 5250.0 | -2.00 | 44.90 | -9.10 | 54.00 | 12.40 | 34.50 |

- **802.11ac (VHT80)**

**Carrier Frequency (MHz): 5210**
**Channel No.: 42**
**Test Mode: 802.11ac (VHT80)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5210.0 | 53.20 | 100.10 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | 21.80 | 68.70 | -5.30 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5210.0 | 25.30 | 72.20 | N/A | N/A | 12.40 | 34.50 |
| 5150.0 | -3.40 | 43.50 | -10.50 | 54.00 | 12.40 | 34.50 |

## 【5725-5850】

- **802.11a**

**Carrier Frequency (MHz): 5745**
**Channel No.: 149**
**Test Mode: 802.11a**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5745.0 | 40.60 | 87.50 | N/A | N/A | 12.40 | 34.50 |
| 5725.0 | 13.40 | 60.30 | -13.70 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5745.0 | 25.20 | 72.10 | N/A | N/A | 12.40 | 34.50 |
| 5725.0 | -3.30 | 43.60 | -10.40 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5825**
**Channel No.: 165**
**Test Mode: 802.11a**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5825.0 | 38.40 | 85.30 | N/A | N/A | 12.40 | 34.50 |
| 5845.0 | 7.70 | 54.60 | -19.40 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5825.0 | 33.50 | 80.40 | N/A | N/A | 12.40 | 34.50 |
| 5845.0 | -8.20 | 38.70 | -15.30 | 54.00 | 12.40 | 34.50 |

- **802.11n (HT20)**

**Carrier Frequency (MHz): 5745**
**Channel No.: 149**
**Test Mode: 802.11n (HT20)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5745.0 | 60.20 | 107.10 | N/A | N/A | 12.40 | 34.50 |
| 5725.0 | 7.60 | 54.50 | -19.50 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5745.0 | 25.50 | 72.40 | N/A | N/A | 12.40 | 34.50 |
| 5725.0 | -15.20 | 31.70 | -22.30 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5825**
**Channel No.: 165**
**Test Mode: 802.11n (HT20)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5825.0 | 36.30 | 83.20 | N/A | N/A | 12.40 | 34.50 |
| 5845.0 | 10.80 | 57.70 | -16.30 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5825.0 | 23.20 | 70.10 | N/A | N/A | 12.40 | 34.50 |
| 5845.0 | -10.40 | 36.50 | -17.50 | 54.00 | 12.40 | 34.50 |

- **802.11n (HT40)**

**Carrier Frequency (MHz): 5755**
**Channel No.: 151**
**Test Mode: 802.11n (HT40)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5755.0 | 52.30 | 99.20 | N/A | N/A | 12.40 | 34.50 |
| 5715.0 | 11.80 | 58.70 | -15.30 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5755.0 | 31.70 | 78.60 | N/A | N/A | 12.40 | 34.50 |
| 5715.0 | -2.30 | 44.60 | -9.40 | 54.00 | 12.40 | 34.50 |

**Carrier Frequency (MHz): 5795**
**Channel No.: 159**
**Test Mode: 802.11n (HT40)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5795.0 | 51.60 | 98.50 | N/A | N/A | 12.40 | 34.50 |
| 5835.0 | 10.90 | 57.80 | -16.20 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5795.0 | 28.40 | 75.30 | N/A | N/A | 12.40 | 34.50 |
| 5835.0 | -6.60 | 40.30 | -13.70 | 54.00 | 12.40 | 34.50 |

- **802.11ac (VHT80)**

**Carrier Frequency (MHz): 5775**
**Channel No.: 155**
**Test Mode: 802.11ac (VHT80)**
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5775.0 | 45.40 | 92.30 | N/A | N/A | 12.40 | 34.50 |
| 5695.0 | 0.60 | 47.50 | -26.50 | 74.00 | 12.40 | 34.50 |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|---|---|---|---|---|---|---|
| 5775.0 | 18.50 | 65.40 | N/A | N/A | 12.40 | 34.50 |
| 5695.0 | -12.30 | 34.60 | -19.40 | 54.00 | 12.40 | 34.50 |

# Radiated Emissions Data-WLAN 5G

## Sample Calculations：

### Determining Spurious Emissions Levels

**A "reference path loss" is established and the $A_{Rpl}$ is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:**

**Below 1GHz：**

**QuasiPeak=Reading Value + $A_{Rpl}$**

**Above 1GHz:**

**MaxPeak=Reading MaxPeak + $A_{Rpl}$**

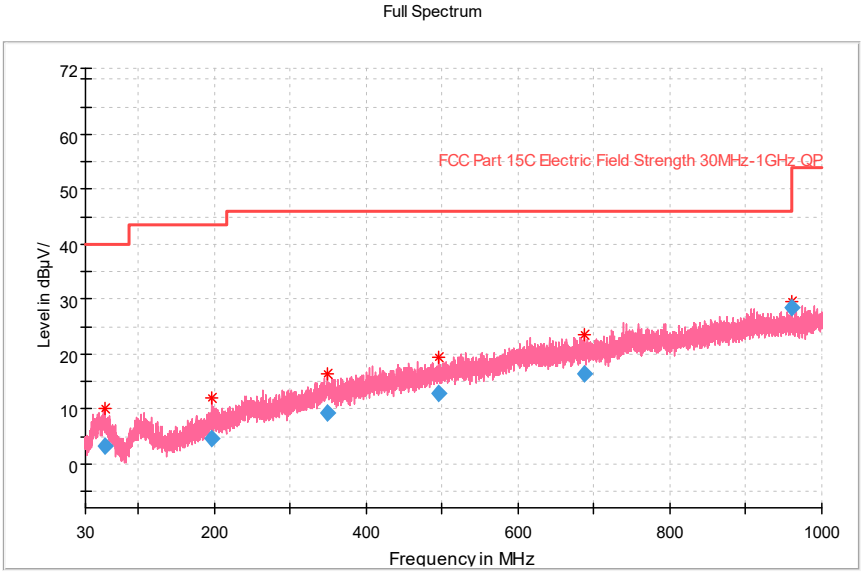
**OR**
**Average=Reading Average + $A_{Rpl}$**
**Sample calculation: (3.20 dBμV/m) = (23.30 dBμV) + (-20.10 dB/m), the corresponding frequency is 55.90MHz.**
**The worst case attitude：The mobile lay down.**

**Spurious Radiated Emissions below 30MHz and above 18G:**
**There were no emissions from 9kHz to 30MHz and above 18G found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).**

**【5150~5250】**

- **802.11a**

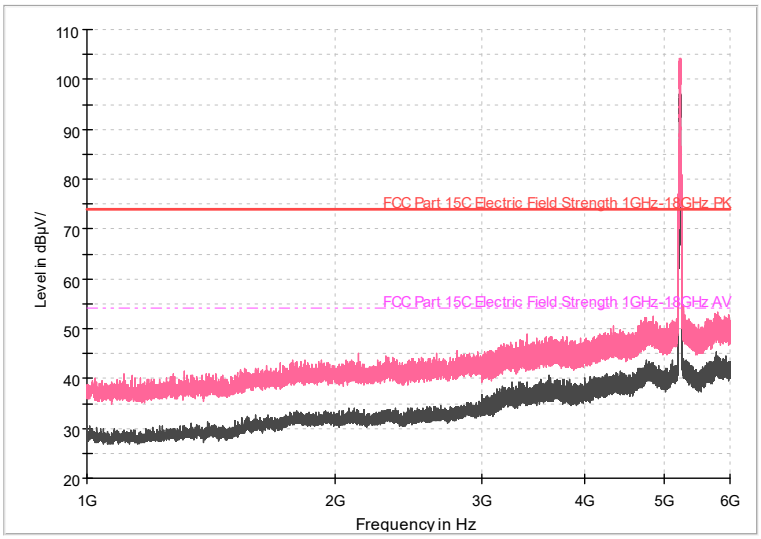
**Spurious Radiated Emissions from 30MHz to 1GHz:**
**CH Middle (No.44)**



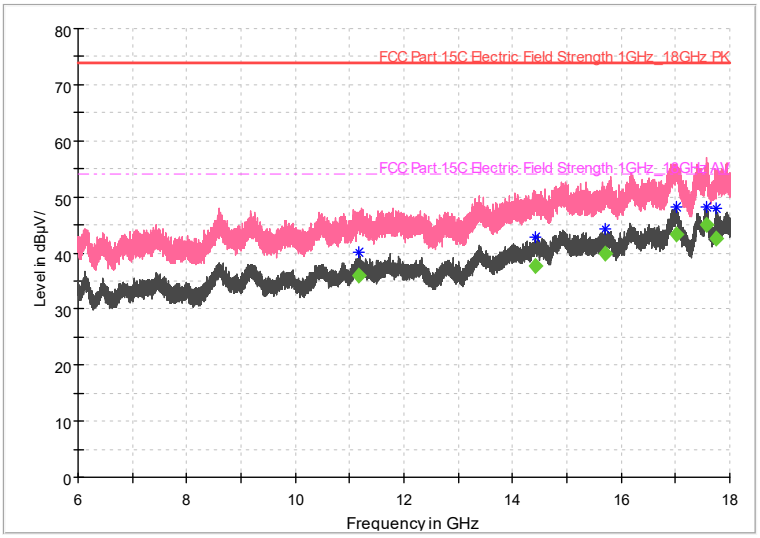

| Frequency (MHz) | Reading (dBuV) | QuasiPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|
| 55.90 | 23.30 | 3.20 | 40.00 | 36.80 | -20.10 | Vertical |
| 196.94 | 24.37 | 4.67 | 43.50 | 38.83 | -19.70 | Vertical |
| 349.03 | 24.12 | 9.22 | 46.00 | 36.78 | -14.90 | Vertical |
| 495.02 | 23.82 | 12.72 | 46.00 | 33.28 | -11.10 | Vertical |
| 686.88 | 23.58 | 16.38 | 46.00 | 29.62 | -7.20 | Vertical |
| 959.75 | 30.96 | 28.46 | 46.00 | 17.54 | -2.50 | Vertical |

# Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.44)

Full Spectrum

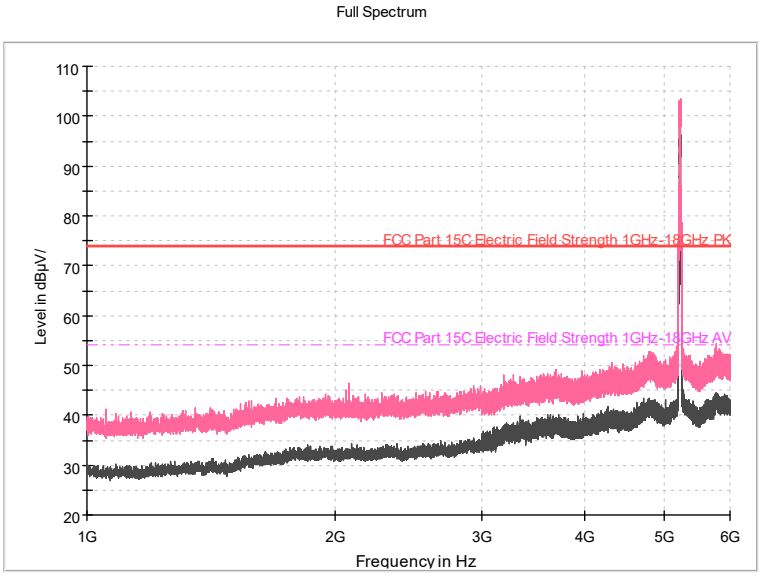


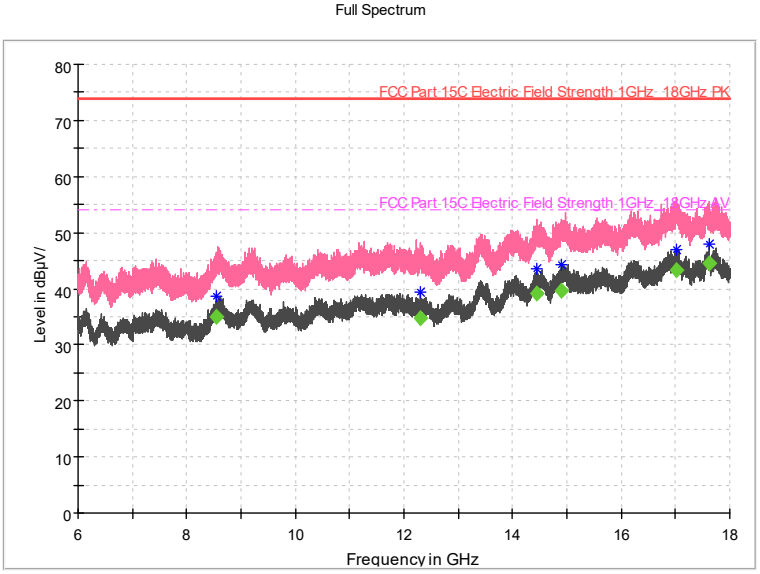

Full Spectrum




| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 11170.00 | --- | 53.66 | --- | 35.96 | 54.00 | 18.04 | -17.70 | Vertical |
| 14422.40 | --- | 51.80 | --- | 37.70 | 54.00 | 16.30 | -14.10 | Vertical |
| 15715.20 | --- | 54.24 | --- | 39.94 | 54.00 | 14.06 | -14.30 | Vertical |
| 17017.20 | --- | 56.04 | --- | 43.34 | 54.00 | 10.66 | -12.70 | Vertical |
| 17574.00 | --- | 56.85 | --- | 44.95 | 54.00 | 9.05 | -11.90 | Vertical |
| 17760.00 | --- | 53.86 | --- | 42.46 | 54.00 | 11.54 | -11.40 | Vertical |

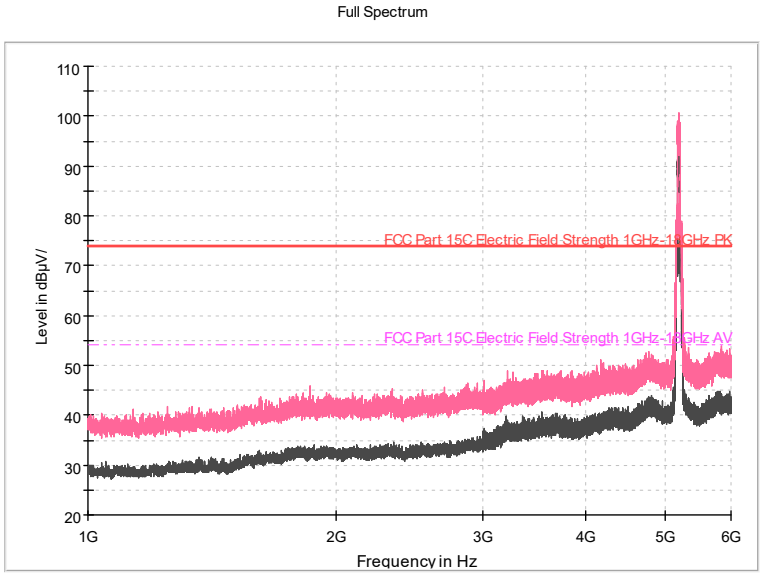
## ● 802.11n (HT20)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.44)

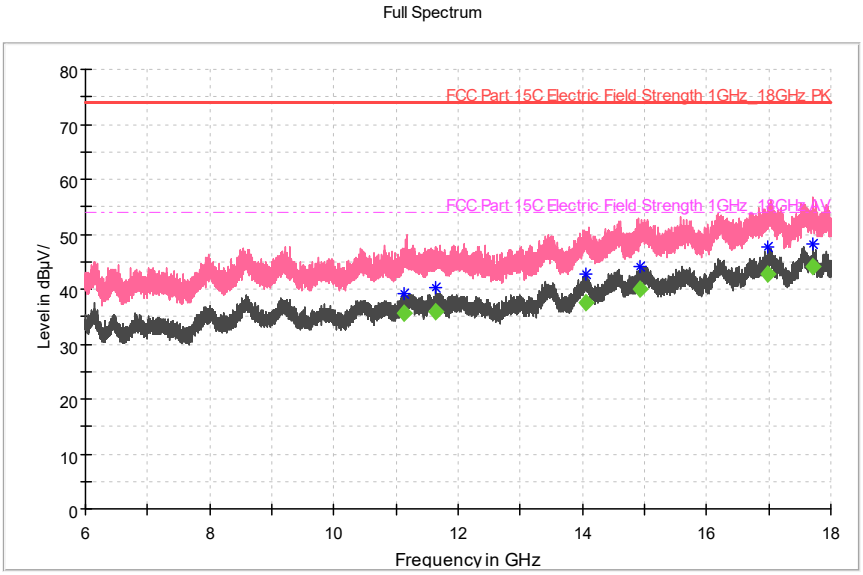



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 8548.400 | --- | 55.45 | --- | 35.05 | 54.00 | 18.95 | -20.40 | Vertical |
| 12314.400 | --- | 52.20 | --- | 34.70 | 54.00 | 19.30 | -17.50 | Vertical |
| 14444.000 | --- | 53.22 | --- | 39.12 | 54.00 | 14.88 | -14.10 | Vertical |
| 14896.000 | --- | 53.59 | --- | 39.69 | 54.00 | 14.31 | -13.90 | Vertical |
| 17008.400 | --- | 56.02 | --- | 43.32 | 54.00 | 10.68 | -12.70 | Vertical |
| 17611.600 | --- | 56.42 | --- | 44.62 | 54.00 | 9.38 | -11.80 | Vertical |

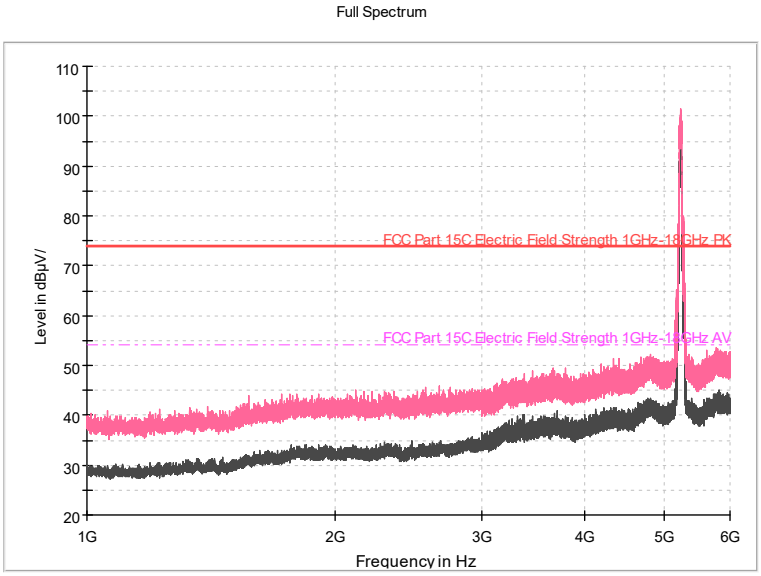
## ● 802.11n (HT40)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.38)

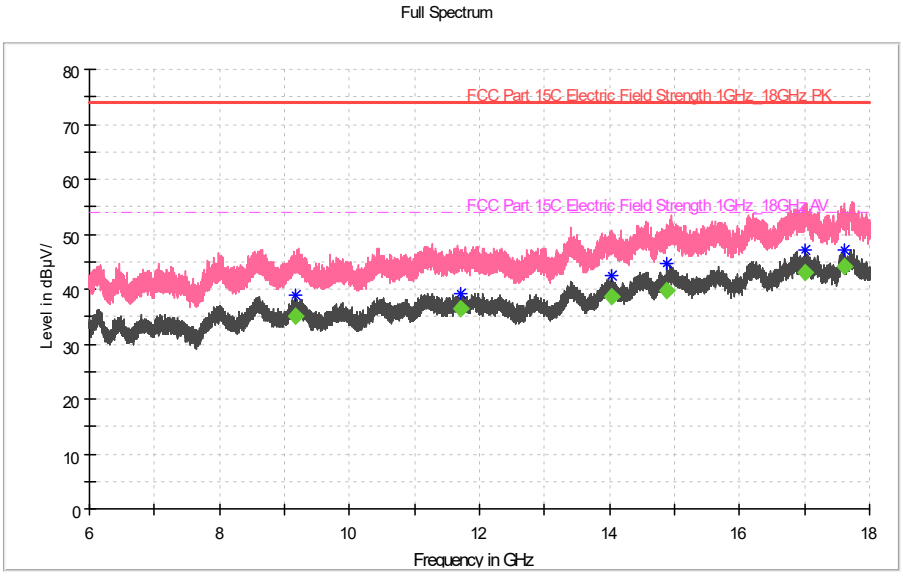



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 11131.20 | --- | 53.47 | --- | 35.57 | 54.00 | 18.43 | -17.90 | Vertical |
| 11645.20 | --- | 52.69 | --- | 35.79 | 54.00 | 18.21 | -16.90 | Vertical |
| 14046.00 | --- | 52.11 | --- | 37.61 | 54.00 | 16.39 | -14.50 | Vertical |
| 14918.80 | --- | 53.93 | --- | 40.03 | 54.00 | 13.97 | -13.90 | Vertical |
| 16995.20 | --- | 55.45 | --- | 42.65 | 54.00 | 11.35 | -12.80 | Vertical |
| 17711.60 | --- | 55.54 | --- | 44.04 | 54.00 | 9.96 | -11.50 | Vertical |

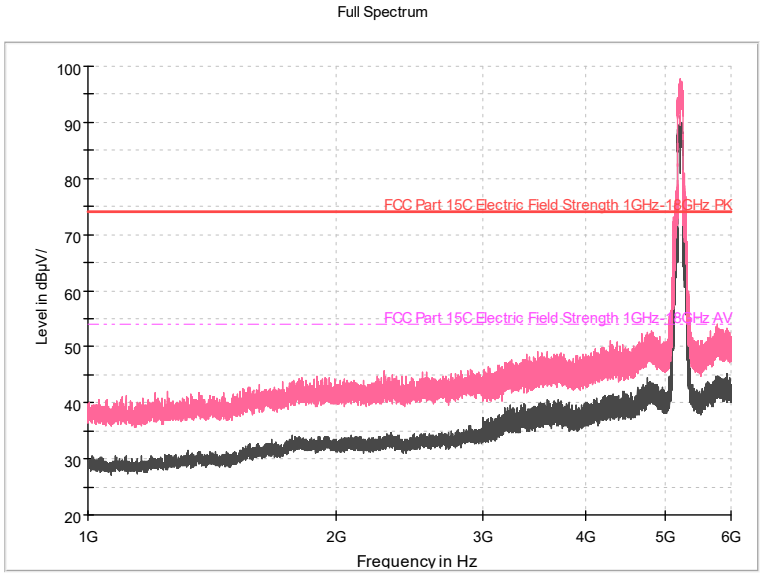
## ● 802.11n (HT40)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.46)

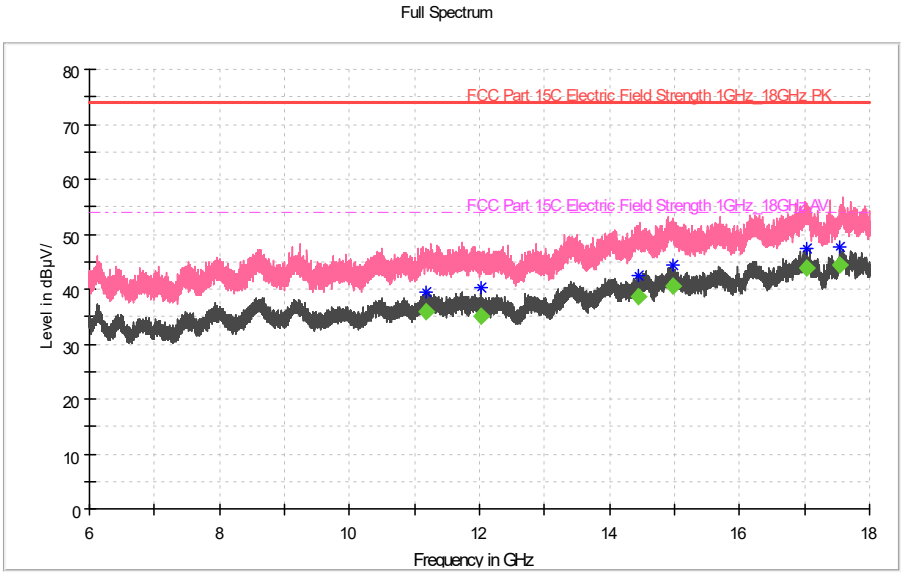



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 9172.000 | --- | 55.31 | --- | 35.11 | 54.00 | 18.89 | -20.20 | Vertical |
| 11712.800 | --- | 53.42 | --- | 36.42 | 54.00 | 17.58 | -17.00 | Vertical |
| 14036.800 | --- | 53.17 | --- | 38.67 | 54.00 | 15.33 | -14.50 | Vertical |
| 14890.400 | --- | 53.60 | --- | 39.70 | 54.00 | 14.30 | -13.90 | Vertical |
| 16998.800 | --- | 55.72 | --- | 42.92 | 54.00 | 11.08 | -12.80 | Vertical |
| 17609.200 | --- | 56.02 | --- | 44.22 | 54.00 | 9.78 | -11.80 | Vertical |

## ● 802.11ac (VHT80)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.42)



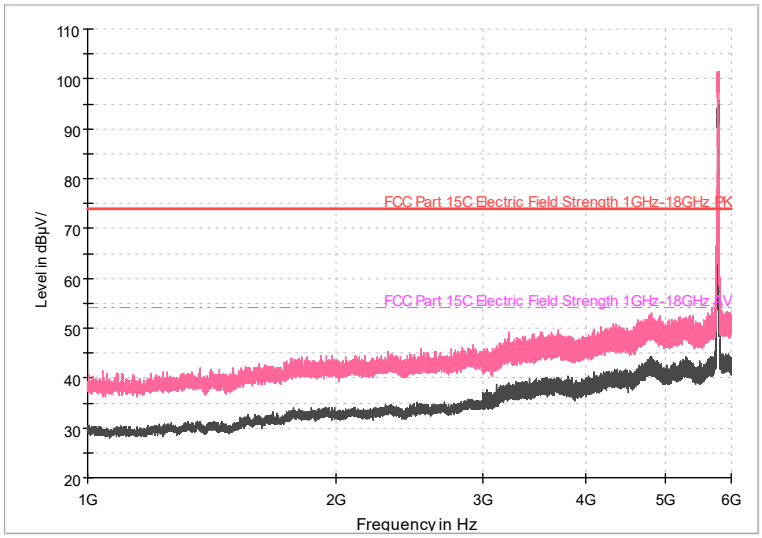

| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 11180.40 | --- | 53.60 | --- | 35.90 | 54.00 | 18.10 | -17.70 | Vertical |
| 12023.20 | --- | 52.00 | --- | 35.10 | 54.00 | 18.90 | -16.90 | Vertical |
| 14433.20 | --- | 52.67 | --- | 38.57 | 54.00 | 15.43 | -14.10 | Vertical |
| 14964.00 | --- | 54.52 | --- | 40.62 | 54.00 | 13.38 | -13.90 | Vertical |
| 17032.80 | --- | 56.39 | --- | 43.79 | 54.00 | 10.21 | -12.60 | Vertical |
| 17550.80 | --- | 56.33 | --- | 44.43 | 54.00 | 9.57 | -11.90 | Vertical |

## 【5725~5850】

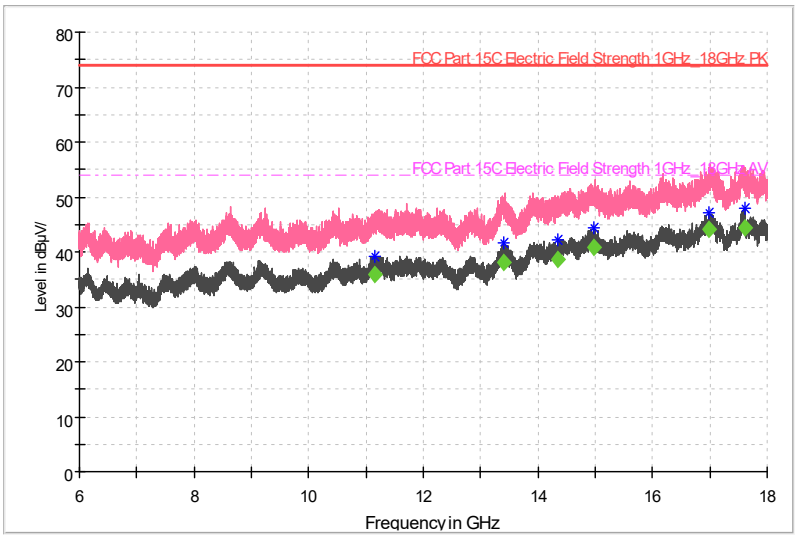
- **802.11a**

## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.157)

Full Spectrum

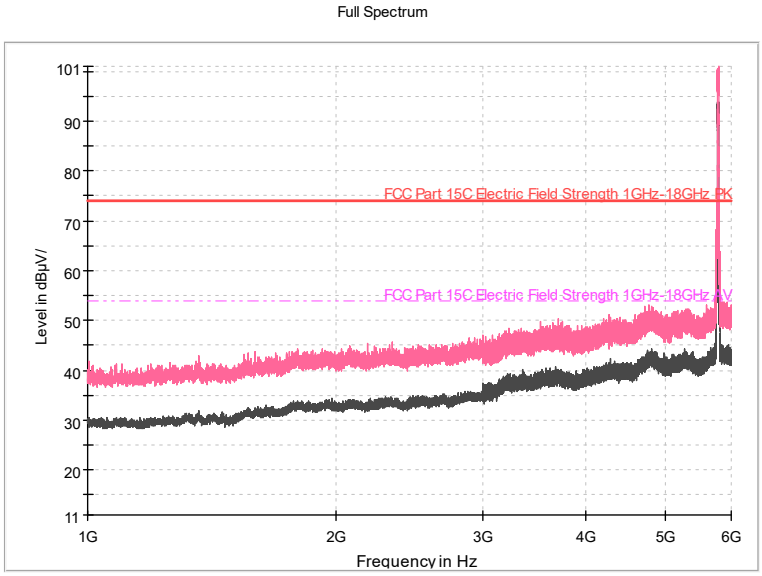


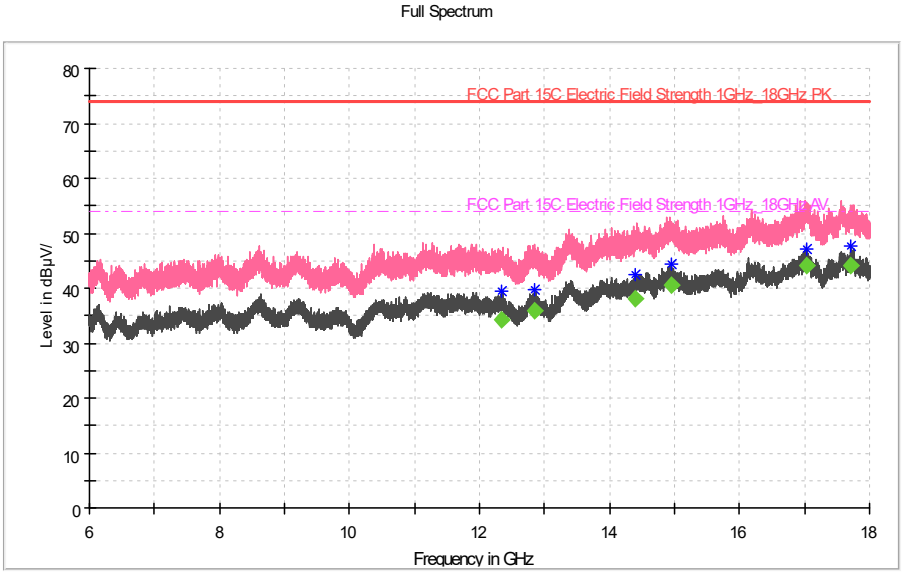

Full Spectrum




| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 11162.80 | --- | 53.49 | --- | 35.79 | 54.00 | 18.21 | -17.70 | Vertical |
| 13401.20 | --- | 53.20 | --- | 38.00 | 54.00 | 16.00 | -15.20 | Vertical |
| 14338.40 | --- | 52.73 | --- | 38.53 | 54.00 | 15.47 | -14.20 | Vertical |
| 14972.40 | --- | 54.63 | --- | 40.73 | 54.00 | 13.27 | -13.90 | Vertical |
| 16993.20 | --- | 56.91 | --- | 44.11 | 54.00 | 9.89 | -12.80 | Vertical |
| 17606.40 | --- | 56.19 | --- | 44.39 | 54.00 | 9.61 | -11.80 | Vertical |

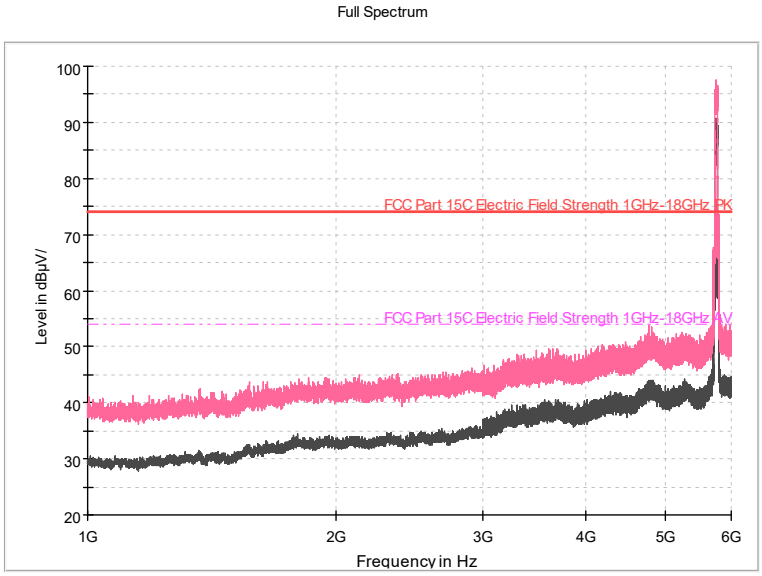
## ● 802.11n (HT20)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.157)

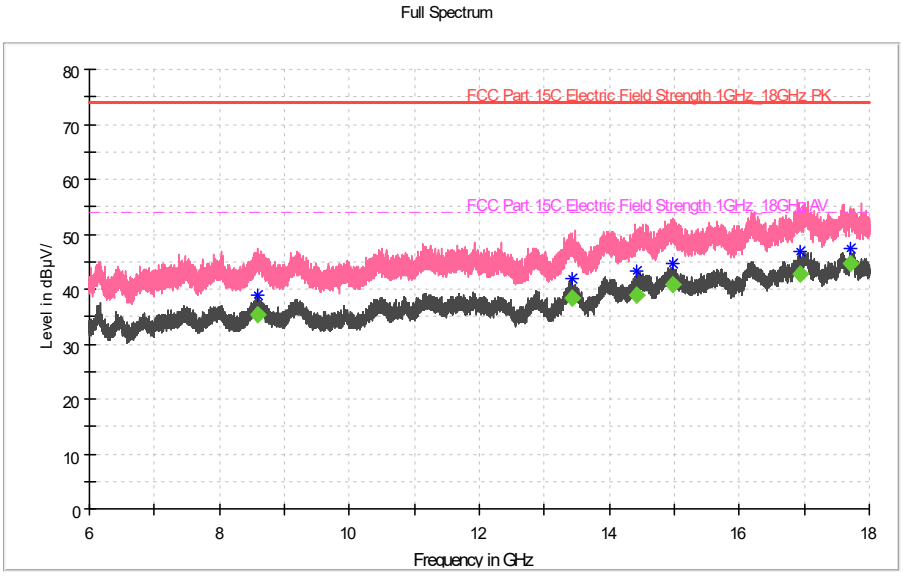



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 12329.20 | --- | 51.66 | --- | 34.16 | 54.00 | 19.84 | -17.50 | Vertical |
| 12841.60 | --- | 53.33 | --- | 35.93 | 54.00 | 18.07 | -17.40 | Vertical |
| 14386.00 | --- | 52.24 | --- | 38.14 | 54.00 | 15.86 | -14.10 | Vertical |
| 14953.60 | --- | 54.32 | --- | 40.42 | 54.00 | 13.58 | -13.90 | Vertical |
| 17036.00 | --- | 56.70 | --- | 44.10 | 54.00 | 9.90 | -12.60 | Vertical |
| 17714.80 | --- | 55.72 | --- | 44.22 | 54.00 | 9.78 | -11.50 | Vertical |

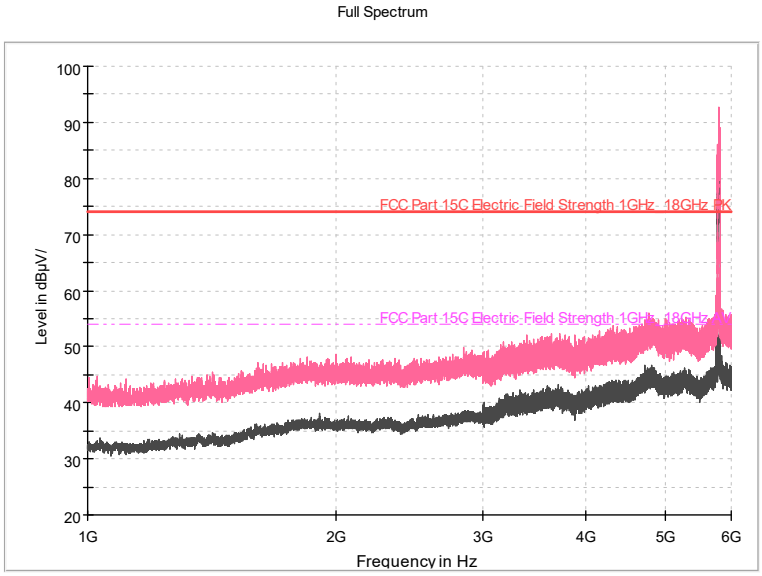
## ● 802.11n (HT40)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.151)

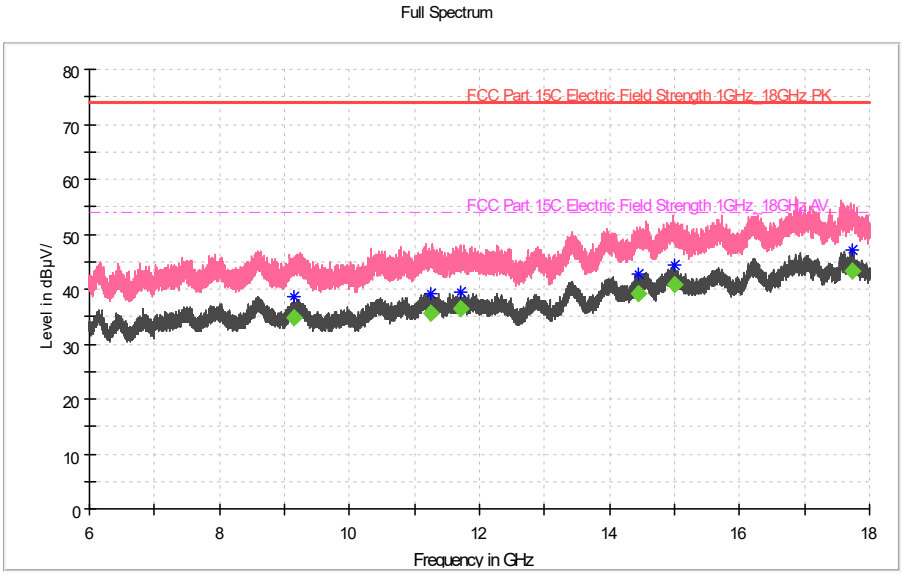



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 8592.00 | --- | 55.76 | --- | 35.36 | 54.00 | 18.64 | -20.40 | Vertical |
| 13438.40 | --- | 53.65 | --- | 38.45 | 54.00 | 15.55 | -15.20 | Vertical |
| 14414.00 | --- | 53.10 | --- | 39.00 | 54.00 | 15.00 | -14.10 | Vertical |
| 14972.40 | --- | 54.83 | --- | 40.93 | 54.00 | 13.07 | -13.90 | Vertical |
| 16934.00 | --- | 55.51 | --- | 42.61 | 54.00 | 11.39 | -12.90 | Vertical |
| 17709.20 | --- | 56.29 | --- | 44.79 | 54.00 | 9.21 | -11.50 | Vertical |

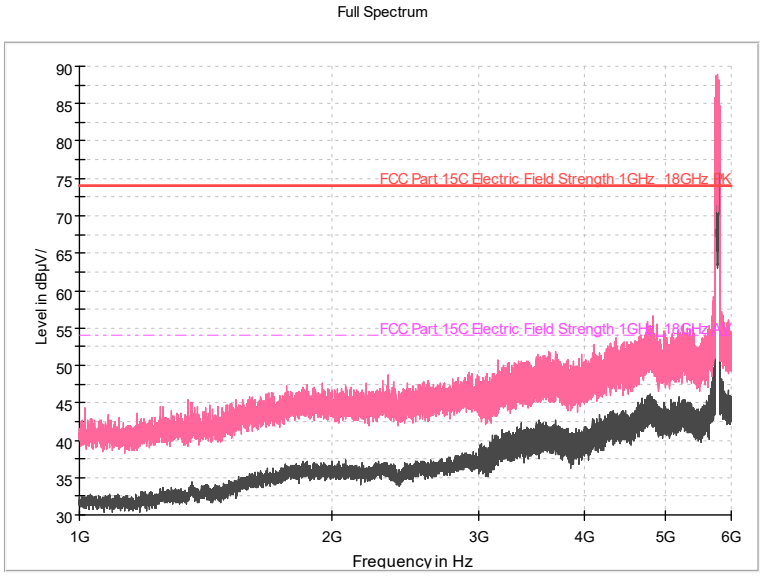
## ● 802.11n (HT40)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.159)

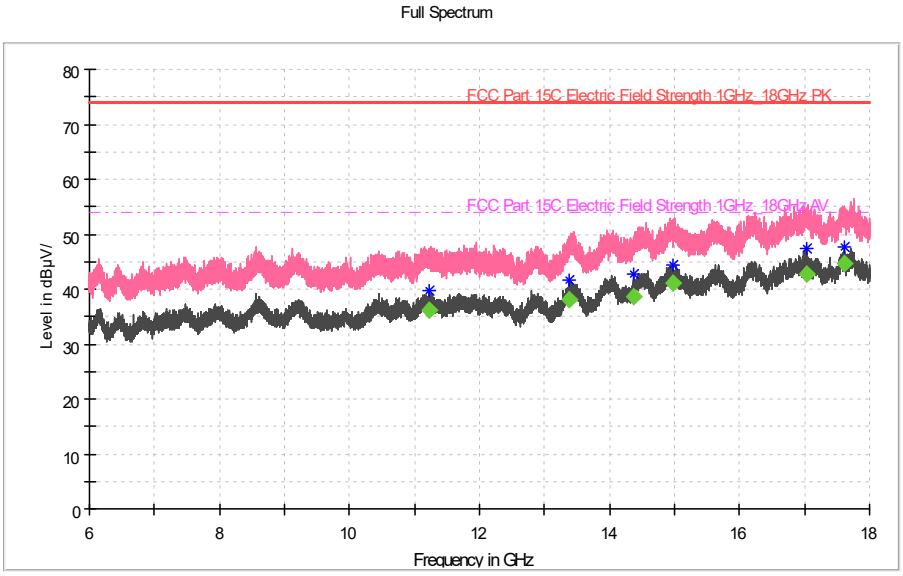


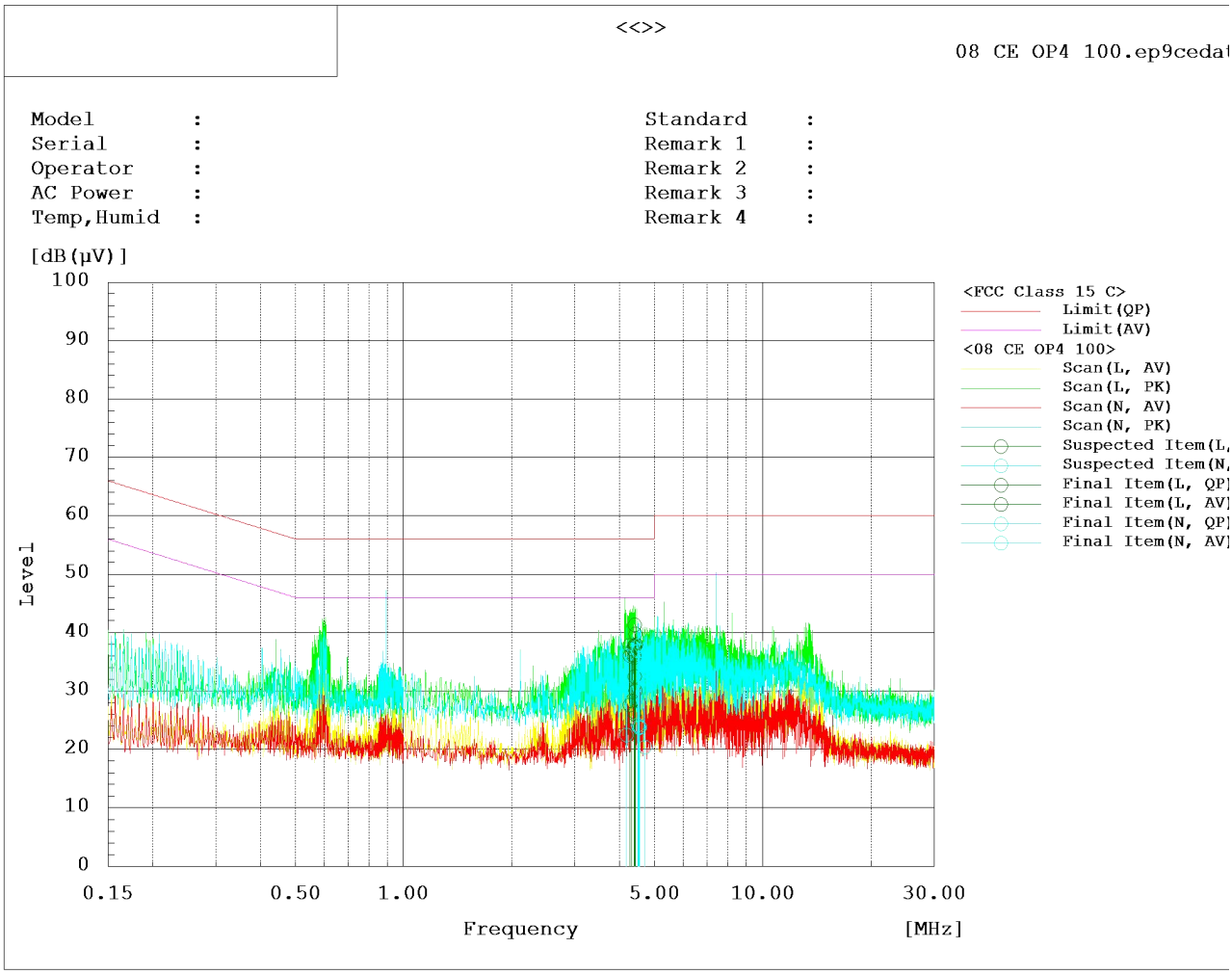

| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 9142.40 | --- | 55.00 | --- | 34.80 | 54.00 | 19.20 | -20.20 | Vertical |
| 11259.60 | --- | 53.25 | --- | 35.75 | 54.00 | 18.25 | -17.50 | Vertical |
| 11709.60 | --- | 53.35 | --- | 36.35 | 54.00 | 17.66 | -17.00 | Vertical |
| 14440.00 | --- | 53.19 | --- | 39.09 | 54.00 | 14.91 | -14.10 | Vertical |
| 14995.20 | --- | 54.67 | --- | 40.77 | 54.00 | 13.23 | -13.90 | Vertical |
| 17724.00 | --- | 54.67 | --- | 43.17 | 54.00 | 10.83 | -11.50 | Vertical |

## ● 802.11ac (VHT80)
## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.155)

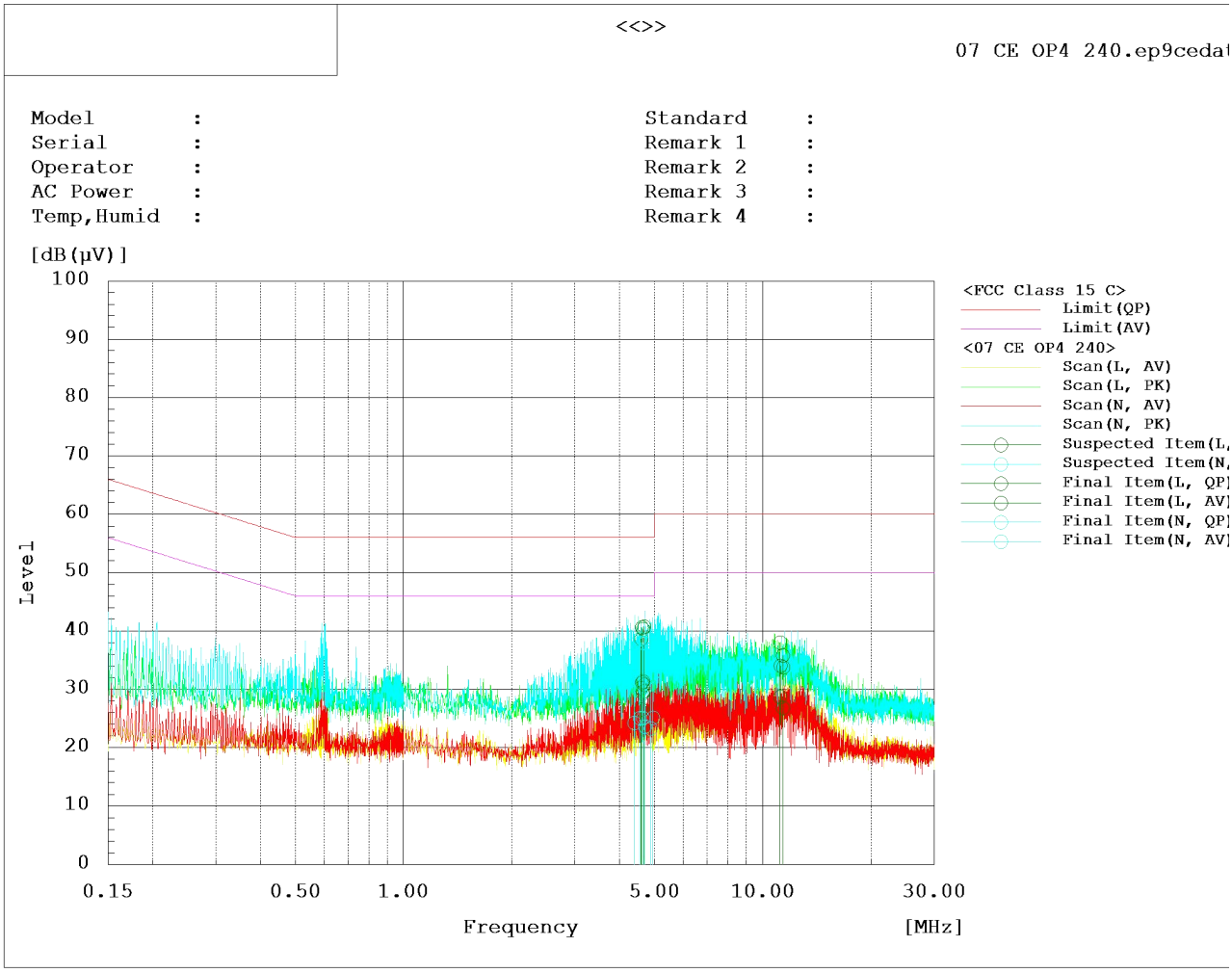



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | $A_{Rpl}$ (dB) | Polarity |
|---|---|---|---|---|---|---|---|---|
| 11227.60 | --- | 53.80 | --- | 36.30 | 54.00 | 17.70 | -17.50 | Vertical |
| 13384.80 | --- | 53.45 | --- | 38.15 | 54.00 | 15.85 | -15.30 | Vertical |
| 14379.20 | --- | 52.67 | --- | 38.57 | 54.00 | 15.43 | -14.10 | Vertical |
| 14978.40 | --- | 55.08 | --- | 41.18 | 54.00 | 12.82 | -13.90 | Vertical |
| 17028.80 | --- | 55.45 | --- | 42.75 | 54.00 | 11.25 | -12.70 | Vertical |
| 17610.40 | --- | 56.36 | --- | 44.56 | 54.00 | 9.44 | -11.80 | Vertical |




| Range | Frequency MHz | Line | Reading dB(µV) | | | Factor dB | Level dB(µV) | | | Limit dB(µV) | Limit dB(µV) | | | Margin dB | | | Pass /Fail | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | QP | AV | PK | | QP | AV | PK | | QP | AV | PK | QP | AV | PK | | |
| Band1 | 4.26 | L | 16.2 | 7.8 | | 19.9 | 36.1 | 27.7 | | | 56 | 46 | | 19.9 | 18.3 | | Pass | |
| Band1 | 4.32 | L | 16.4 | 8.4 | | 19.9 | 36.3 | 28.3 | | | 56 | 46 | | 19.7 | 17.7 | | Pass | |
| Band1 | 4.39 | L | 16.2 | 6.5 | | 19.9 | 36.1 | 26.4 | | | 56 | 46 | | 19.9 | 19.6 | | Pass | |
| Band1 | 4.38 | L | 15.9 | 6.3 | | 19.9 | 35.8 | 26.2 | | | 56 | 46 | | 20.2 | 19.8 | | Pass | |
| Band1 | 4.39 | L | 21.5 | 13 | | 19.9 | 41.4 | 32.5 | | | 56 | 46 | | 14.6 | 13.5 | | Pass | |
| Band1 | 4.42 | L | 19.9 | 10 | | 19.9 | 39.8 | 30.1 | | | 56 | 46 | | 16.2 | 15.9 | | Pass | |
| Band1 | 4.17 | N | 16.1 | 2.6 | | 19.9 | 36 | 22.5 | | | 56 | 46 | | 20 | 23.5 | | Pass | |
| Band1 | 4.49 | N | 17 | 4.3 | | 19.9 | 36.9 | 24.2 | | | 56 | 46 | | 19.1 | 21.8 | | Pass | |
| Band1 | 4.5 | N | 16.9 | 4 | | 19.9 | 36.8 | 23.9 | | | 56 | 46 | | 19.2 | 22.1 | | Pass | |
| Band1 | 4.53 | N | 17.1 | 3.9 | | 19.9 | 37 | 23.8 | | | 56 | 46 | | 19 | 22.2 | | Pass | |
| Band1 | 4.55 | N | 18 | 4 | | 19.9 | 37.9 | 23.9 | | | 56 | 46 | | 18.1 | 22.1 | | Pass | |
| Band1 | 4.69 | N | 15.6 | 0.5 | | 19.9 | 35.5 | 20.4 | | | 56 | 46 | | 20.5 | 25.6 | | Pass | |




| Range | Frequency MHz | Line | Reading dB(µV) | | | Factor dB | Level dB(µV) | | | Limit dB(µV) | Limit dB(µV) | | | Margin dB | | | Pass /Fail | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | QP | AV | PK | | QP | AV | PK | | QP | AV | PK | QP | AV | PK | | |
| Band1 | 4.58 | L | 18.7 | 6.7 | | 19.9 | 38.6 | 26.6 | | | 56 | 46 | | 17.4 | 19.4 | | Pass | |
| Band1 | 4.61 | L | 20.7 | 11 | | 19.9 | 40.6 | 31.2 | | | 56 | 46 | | 15.4 | 14.8 | | Pass | |
| Band1 | 4.63 | L | 20.4 | 12 | | 19.9 | 40.3 | 31.4 | | | 56 | 46 | | 15.7 | 14.6 | | Pass | |
| Band1 | 4.67 | L | 20.8 | 11 | | 19.9 | 40.7 | 30.8 | | | 56 | 46 | | 15.3 | 15.2 | | Pass | |
| Band1 | 11.2 | L | 18.1 | 8.7 | | 20 | 38.1 | 28.7 | | | 60 | 50 | | 21.9 | 21.3 | | Pass | |
| Band1 | 11.4 | L | 15.8 | 6.8 | | 20 | 35.8 | 26.8 | | | 60 | 50 | | 24.2 | 23.2 | | Pass | |
| Band1 | 4.39 | N | 17.8 | 4.4 | | 19.9 | 37.7 | 24.3 | | | 56 | 46 | | 18.3 | 21.7 | | Pass | |
| Band1 | 4.55 | N | 18.8 | 5.2 | | 19.9 | 38.7 | 25.1 | | | 56 | 46 | | 17.3 | 20.9 | | Pass | |
| Band1 | 4.63 | N | 18.1 | 5.2 | | 19.9 | 38 | 25.1 | | | 56 | 46 | | 18 | 20.9 | | Pass | |
| Band1 | 4.69 | N | 18 | 3.8 | | 19.9 | 37.9 | 23.7 | | | 56 | 46 | | 18.1 | 22.3 | | Pass | |
| Band1 | 4.87 | N | 19.3 | 3.4 | | 19.9 | 39.2 | 23.3 | | | 56 | 46 | | 16.8 | 22.7 | | Pass | |
| Band1 | 4.94 | N | 18.9 | 5.3 | | 19.9 | 38.8 | 25.2 | | | 56 | 46 | | 17.2 | 20.8 | | Pass | |

---The end of the test report---