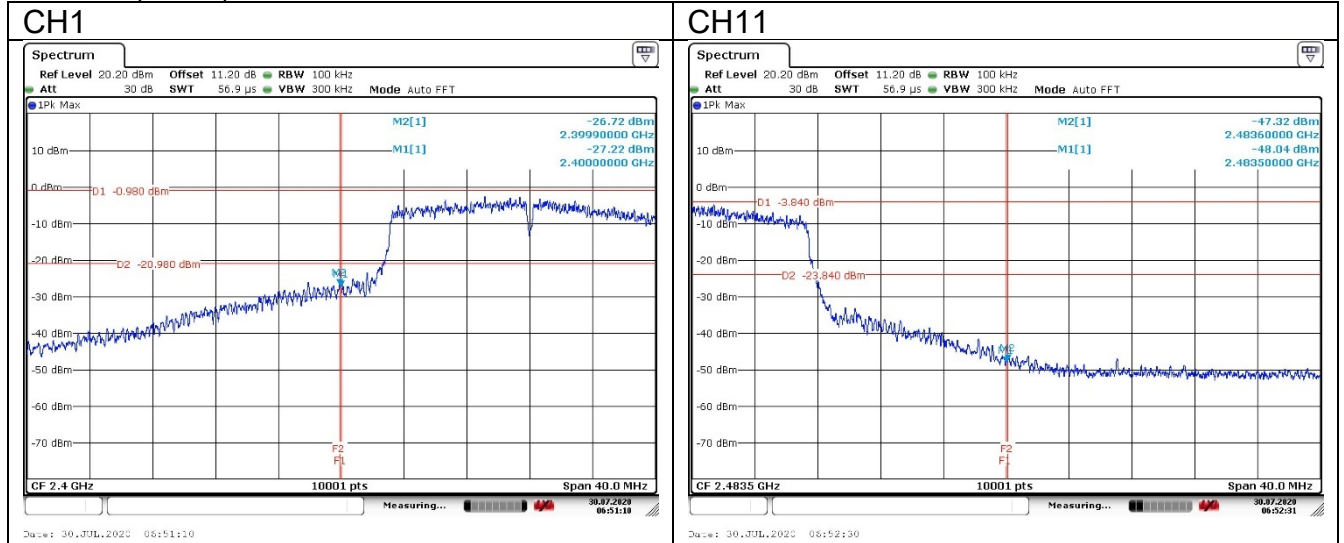
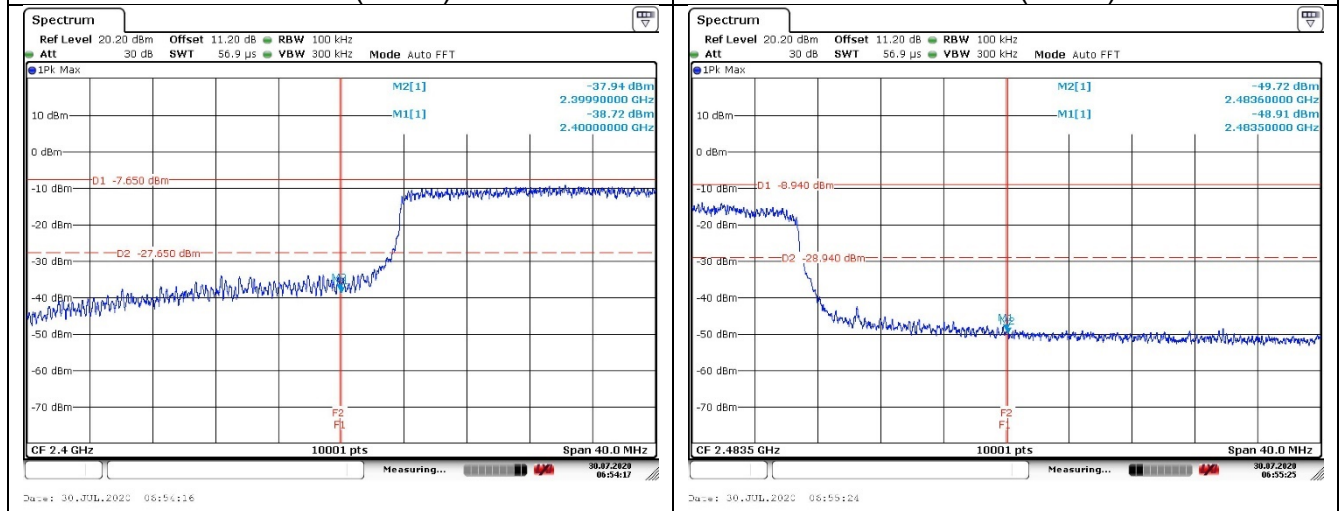


## 802.11n (HT20)



## 802.11n (HT40)



## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

### **Radiated Emission Band Edge**

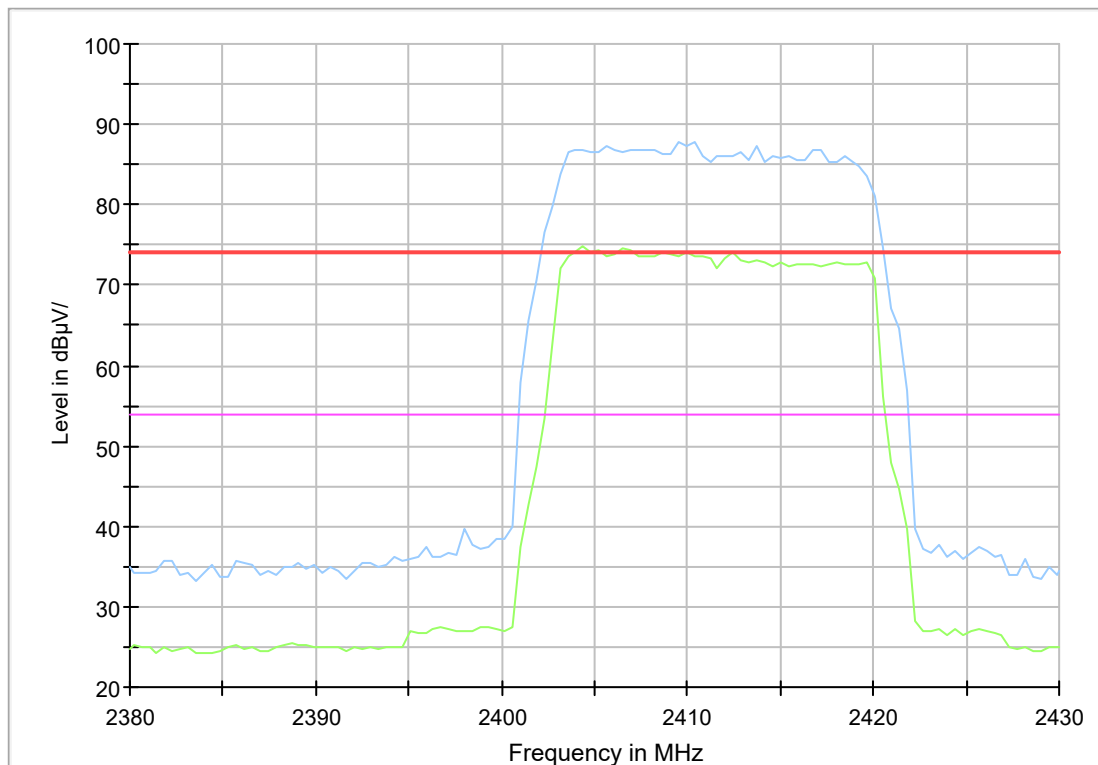
The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Full Spectrum

Full Spectrum



Test Mode: 802.11b 2412MHz

Sample calculation:  $(86.22 \text{ dBuV/m}) = (52.22 \text{ dBuV}) + (8.90 \text{ dB}) + (25.10 \text{ dB})$ , the corresponding frequency is 2412MHz.

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Vertical

Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|---------------------|
| 1  | 2412            | 86.22                  | 52.22                | N/A             | N/A            | 8.90            | 25.10               |
| 2  | 2390            | 34.15                  | 0.15                 | -39.85          | 74.00          | 8.90            | 25.10               |

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Horizontal

Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|---------------------|
| 1  | 2412            | 81.73                  | 47.73                | N/A             | N/A            | 8.90            | 25.10               |
| 2  | 2390            | 28.85                  | -5.15                | -45.15          | 74.00          | 8.90            | 25.10               |

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Vertical

Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|---------------------|
| 1  | 2412            | 73.19                  | 39.19                | N/A             | N/A            | 8.90            | 25.10               |
| 2  | 2390            | 21.77                  | -12.23               | -32.23          | 54.00          | 8.90            | 25.10               |

Carrier frequency (MHz): 2412

Channel No.:1

Test Mode: 802.11b

Polarity:Horizontal

Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|-----------------|------------------------|----------------------|-----------------|----------------|-----------------|---------------------|
| 1  | 2412            | 71.32                  | 37.32                | N/A             | N/A            | 8.90            | 25.10               |
| 2  | 2390            | 20.99                  | -13.01               | -33.01          | 54.00          | 8.90            | 25.10               |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11b  
Polarity:Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 87.14                        | 53.14                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 35.37                        | 1.37                       | -38.63                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11b  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 82.49                        | 48.49                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 32.51                        | -1.49                      | -41.49                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11b  
Polarity:Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 74.98                        | 40.98                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 22.16                        | -11.84                     | -31.84                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11b  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 69.82                        | 35.82                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 21.18                        | -12.82                     | -32.82                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11g  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 86.28                        | 52.28                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 33.14                        | -0.86                      | -40.86                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11g  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 81.58                        | 47.58                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 30.17                        | -3.83                      | -43.83                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11g  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 72.45                        | 38.45                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 23.54                        | -10.46                     | -30.46                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11g  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 71.70                        | 37.70                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 21.15                        | -12.85                     | -32.85                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11g  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 86.40                        | 52.40                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 35.56                        | 1.56                       | -38.44                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11g  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 82.92                        | 48.92                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 30.78                        | -3.22                      | -43.22                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11g  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 73.61                        | 39.61                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 23.18                        | -10.82                     | -30.82                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11g  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 72.73                        | 38.73                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 22.63                        | -11.37                     | -31.37                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11n(HT20)  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 86.83                        | 52.83                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 33.50                        | -0.50                      | -40.50                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11n(HT20)  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 83.59                        | 49.59                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 32.08                        | -1.92                      | -41.92                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11n(HT20)  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 76.31                        | 42.31                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 23.43                        | -10.57                     | -30.57                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2412  
Channel No.:1  
Test Mode: 802.11n(HT20)  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2412               | 73.29                        | 39.29                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 22.98                        | -11.02                     | -31.02                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11n(HT20)  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 86.74                        | 52.74                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 36.13                        | 2.13                       | -37.87                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11n(HT20)  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 82.83                        | 48.83                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 28.97                        | -5.03                      | -45.03                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11n(HT20)  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 72.60                        | 38.60                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 23.81                        | -10.19                     | -30.19                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2462  
Channel No.:11  
Test Mode: 802.11n(HT20)  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2462               | 72.24                        | 38.24                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 22.70                        | -11.30                     | -31.30                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2422  
Channel No.:3  
Test Mode: 802.11n(HT40)  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2422               | 88.05                        | 54.05                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 33.86                        | -0.14                      | -40.14                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2422  
Channel No.:2  
Test Mode: 802.11n(HT40)  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2422               | 82.06                        | 48.06                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 31.63                        | -2.37                      | -42.37                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2422  
Channel No.:3  
Test Mode: 802.11n(HT40)  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2422               | 75.40                        | 41.40                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 22.37                        | -11.63                     | -31.63                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2422  
Channel No.:3  
Test Mode: 802.11n(HT40)  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2422               | 72.16                        | 38.16                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2390               | 21.14                        | -12.86                     | -32.86                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2452  
Channel No.:9  
Test Mode: 802.11n(HT40)  
Polarity: Vertical  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2452               | 86.86                        | 52.86                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 34.56                        | 0.56                       | -39.44                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2452  
Channel No.:9  
Test Mode: 802.11n(HT40)  
Polarity:Horizontal  
Detector: Peak

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2452               | 83.62                        | 49.62                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 31.85                        | -2.15                      | -42.15                | 74.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2452  
Channel No.:9  
Test Mode: 802.11n(HT40)  
Polarity: Vertical  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2452               | 76.36                        | 42.36                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 22.54                        | -11.46                     | -31.46                | 54.00             | 8.90                  | 25.10                     |

Carrier frequency (MHz): 2452  
Channel No.:9  
Test Mode: 802.11n(HT40)  
Polarity:Horizontal  
Detector: Average

| No | Frequency<br>(MHz) | Measure<br>Level<br>(dBuV/m) | Reading<br>Level<br>(dBuV) | Over<br>Limit<br>(dB) | Limit<br>(dBuV/m) | cable<br>loss<br>(dB) | antenna<br>factor<br>(dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1  | 2452               | 73.11                        | 39.11                      | N/A                   | N/A               | 8.90                  | 25.10                     |
| 2  | 2483.5             | 23.11                        | -10.89                     | -30.89                | 54.00             | 8.90                  | 25.10                     |

## 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:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Sample calculation:  $(25.55\text{dB}\mu\text{V/m}) = (-18.1\text{dB}) + (43.65\text{dB}\mu\text{V/m})$ , the corresponding frequency is 40.445000MHz.

The worst case attitude: The mobile lay down.

For 802.11b Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | $A_{Rpl}$<br>(dB) | $P_{\text{mea}}$<br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|-------------------|------------------------------|----------|-------------------|
| 40.445000      | 25.55          | -18.1             | 43.65                        | Vertical | 40.00             |
| 53.865000      | 19.27          | -17.6             | 36.87                        | Vertical | 40.00             |
| 84.371500      | 21.23          | -22.5             | 43.73                        | Vertical | 40.00             |
| 87.007500      | 15.05          | -21.6             | 36.65                        | Vertical | 40.00             |
| 160.154000     | 14.25          | -21.2             | 35.45                        | Vertical | 43.50             |
| 901.924000     | 17.23          | -1.5              | 18.73                        | Vertical | 46.00             |

For 802.11b Channel No.:2

| Frequency(MHz) | Result(dBuV/m) | $A_{Rpl}$<br>(dB) | $P_{\text{mea}}$<br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|-------------------|------------------------------|----------|-------------------|
| 34.467500      | 24.46          | -19.9             | 44.36                        | Vertical | 40.00             |
| 54.920000      | 18.91          | -17.8             | 36.71                        | Vertical | 40.00             |
| 84.154500      | 19.98          | -22.5             | 42.48                        | Vertical | 40.00             |
| 86.913000      | 17.59          | -21.6             | 39.19                        | Vertical | 40.00             |
| 159.820500     | 17.37          | -21.2             | 38.57                        | Vertical | 43.50             |
| 945.548500     | 17.49          | -0.9              | 18.39                        | Horizon  | 46.00             |

For 802.11b Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | $A_{Rpl}$<br>(dB) | $P_{\text{mea}}$<br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|-------------------|------------------------------|----------|-------------------|
| 41.038000      | 35.01          | -18.0             | 53.01                        | Vertical | 40.00             |
| 42.407000      | 29.89          | -17.9             | 47.79                        | Vertical | 40.00             |
| 66.772000      | 23.38          | -20.6             | 43.98                        | Vertical | 40.00             |
| 78.340500      | 22.83          | -23.6             | 46.43                        | Vertical | 40.00             |
| 144.081000     | 15.57          | -21.8             | 37.37                        | Horizon  | 43.50             |
| 926.690500     | 17.53          | -1.1              | 18.63                        | Vertical | 46.00             |

For 802.11b Channel No.:10

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.964000      | 34.15          | -18.0                    | 52.15                        | Vertical | 40.00             |
| 42.969500      | 28.77          | -17.8                    | 46.57                        | Vertical | 40.00             |
| 68.155500      | 24.15          | -21.1                    | 45.25                        | Vertical | 40.00             |
| 86.759000      | 14.94          | -21.6                    | 36.54                        | Vertical | 40.00             |
| 153.908500     | 19.91          | -21.4                    | 41.31                        | Horizon  | 43.50             |
| 920.277500     | 17.37          | -1.2                     | 18.57                        | Vertical | 46.00             |

For 802.11b Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.955500      | 33.85          | -18.0                    | 51.85                        | Vertical | 40.00             |
| 42.601000      | 28.78          | -17.8                    | 46.58                        | Vertical | 40.00             |
| 68.252500      | 24.76          | -21.1                    | 45.86                        | Vertical | 40.00             |
| 87.798000      | 16.90          | -21.3                    | 38.20                        | Vertical | 40.00             |
| 153.250000     | 20.02          | -21.5                    | 41.52                        | Horizon  | 43.50             |
| 950.878500     | 17.65          | -0.9                     | 18.55                        | Vertical | 46.00             |

For 802.11g Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.981000      | 34.17          | -18.0                    | 52.17                        | Vertical | 40.00             |
| 51.813500      | 27.86          | -17.4                    | 45.26                        | Vertical | 40.00             |
| 67.936000      | 24.54          | -21.0                    | 45.54                        | Vertical | 40.00             |
| 88.257500      | 17.84          | -21.1                    | 38.94                        | Vertical | 43.50             |
| 152.277500     | 19.11          | -21.5                    | 40.61                        | Horizon  | 43.50             |
| 925.387000     | 17.42          | -1.1                     | 18.52                        | Vertical | 46.00             |

For 802.11g Channel No.:2

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.989500      | 34.19          | -18.0                    | 52.19                        | Vertical | 40.00             |
| 42.358500      | 29.95          | -17.9                    | 47.85                        | Vertical | 40.00             |
| 67.596500      | 24.30          | -20.9                    | 45.20                        | Vertical | 40.00             |
| 88.209000      | 17.92          | -21.2                    | 39.12                        | Vertical | 43.50             |
| 153.569000     | 18.81          | -21.5                    | 40.31                        | Vertical | 43.50             |
| 941.172500     | 17.54          | -1.0                     | 18.54                        | Horizon  | 46.00             |

For 802.11g Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.630500      | 33.49          | -18.1                    | 51.59                        | Vertical | 40.00             |
| 42.969500      | 28.80          | -17.8                    | 46.60                        | Vertical | 40.00             |
| 62.540500      | 21.84          | -19.3                    | 41.14                        | Vertical | 40.00             |
| 87.821000      | 17.44          | -21.3                    | 38.74                        | Vertical | 40.00             |
| 144.260500     | 14.26          | -21.8                    | 36.06                        | Horizon  | 43.50             |
| 916.545500     | 17.39          | -1.2                     | 18.59                        | Horizon  | 46.00             |

For 802.11g Channel No.:10

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.958000      | 34.16          | -18.0                    | 52.16                        | Vertical | 40.00             |
| 51.959000      | 27.83          | -17.4                    | 45.23                        | Vertical | 40.00             |
| 67.995500      | 24.65          | -21.0                    | 45.65                        | Vertical | 40.00             |
| 88.209000      | 17.81          | -21.2                    | 39.01                        | Vertical | 43.50             |
| 153.575000     | 19.40          | -21.5                    | 40.90                        | Horizon  | 43.50             |
| 908.951500     | 17.35          | -1.3                     | 18.65                        | Vertical | 46.00             |

For 802.11g Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.012500      | 33.89          | -18.0                    | 51.89                        | Vertical | 40.00             |
| 42.310000      | 30.09          | -17.9                    | 47.99                        | Vertical | 40.00             |
| 68.112000      | 21.15          | -21.0                    | 42.15                        | Vertical | 40.00             |
| 87.992000      | 15.83          | -21.2                    | 37.03                        | Vertical | 40.00             |
| 153.714500     | 18.24          | -21.5                    | 39.74                        | Horizon  | 43.50             |
| 930.870000     | 17.42          | -1.1                     | 18.52                        | Vertical | 46.00             |

For 802.11n(HT20) Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.958000      | 32.36          | -18.0                    | 50.36                        | Vertical | 40.00             |
| 42.487000      | 26.91          | -17.8                    | 44.71                        | Vertical | 40.00             |
| 69.682000      | 22.05          | -21.5                    | 43.55                        | Vertical | 40.00             |
| 86.956500      | 14.99          | -21.6                    | 36.59                        | Vertical | 40.00             |
| 146.029500     | 15.90          | -21.7                    | 37.60                        | Horizon  | 43.50             |
| 895.916000     | 17.21          | -1.6                     | 18.81                        | Horizon  | 46.00             |

For 802.11 n(HT20) Channel No.:2

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.371500      | 30.71          | -18.0                    | 48.71                        | Vertical | 40.00             |
| 51.137000      | 26.32          | -17.3                    | 43.62                        | Vertical | 40.00             |
| 83.792000      | 19.21          | -22.7                    | 41.91                        | Vertical | 40.00             |
| 87.627000      | 16.23          | -21.4                    | 37.63                        | Vertical | 40.00             |
| 151.341500     | 15.89          | -21.5                    | 37.39                        | Horizon  | 43.50             |
| 916.731000     | 17.34          | -1.2                     | 18.54                        | Vertical | 46.00             |

For 802.11 n(HT20) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.061000      | 31.18          | -18.0                    | 49.18                        | Vertical | 40.00             |
| 45.249000      | 24.28          | -17.5                    | 41.78                        | Vertical | 40.00             |
| 70.577000      | 18.05          | -21.8                    | 39.85                        | Vertical | 40.00             |
| 87.566500      | 14.44          | -21.4                    | 35.84                        | Vertical | 40.00             |
| 152.990500     | 14.61          | -21.5                    | 36.11                        | Horizon  | 43.50             |
| 931.932000     | 17.47          | -1.1                     | 18.57                        | Vertical | 46.00             |

For 802.11 n(HT20) Channel No.:10

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.972500      | 28.56          | -18.0                    | 46.56                        | Vertical | 40.00             |
| 42.929500      | 24.13          | -17.8                    | 41.93                        | Vertical | 40.00             |
| 67.847500      | 22.33          | -21.0                    | 43.33                        | Vertical | 40.00             |
| 87.347000      | 17.81          | -21.5                    | 39.31                        | Vertical | 40.00             |
| 152.651000     | 15.54          | -21.5                    | 37.04                        | Horizon  | 43.50             |
| 937.058500     | 17.46          | -1.0                     | 18.46                        | Vertical | 46.00             |

For 802.11 n(HT20) Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.118000      | 28.24          | -18.0                    | 46.24                        | Vertical | 40.00             |
| 50.641000      | 22.05          | -17.2                    | 39.25                        | Vertical | 40.00             |
| 60.683000      | 19.97          | -18.6                    | 38.57                        | Vertical | 40.00             |
| 87.079000      | 16.62          | -21.5                    | 38.12                        | Vertical | 40.00             |
| 155.743000     | 11.56          | -21.4                    | 32.96                        | Horizon  | 43.50             |
| 928.870500     | 17.43          | -1.1                     | 18.53                        | Vertical | 46.00             |

For 802.11 n(HT40) Channel No.:3

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.044000      | 26.51          | -18.0                    | 44.51                        | Vertical | 40.00             |
| 42.681000      | 23.55          | -17.8                    | 41.35                        | Vertical | 40.00             |
| 68.112000      | 20.03          | -21.0                    | 41.03                        | Vertical | 40.00             |
| 87.256000      | 13.02          | -21.5                    | 34.52                        | Vertical | 40.00             |
| 153.518000     | 12.21          | -21.5                    | 33.71                        | Horizon  | 43.50             |
| 935.489500     | 17.50          | -1.0                     | 18.50                        | Horizon  | 46.00             |

For 802.11 n(HT40) Channel No.:4

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 40.918000      | 24.67          | -18.0                    | 42.67                        | Vertical | 40.00             |
| 51.058000      | 19.66          | -17.3                    | 36.96                        | Vertical | 40.00             |
| 69.775500      | 20.22          | -21.6                    | 41.82                        | Vertical | 40.00             |
| 87.695000      | 12.50          | -21.3                    | 33.80                        | Vertical | 40.00             |
| 145.835500     | 12.69          | -21.7                    | 34.39                        | Vertical | 43.50             |
| 936.373500     | 17.44          | -1.0                     | 18.44                        | Horizon  | 46.00             |

For 802.11 n(HT40) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.055000      | 34.88          | -18.0                    | 52.88                        | Vertical | 40.00             |
| 42.310000      | 30.60          | -17.9                    | 48.50                        | Vertical | 40.00             |
| 67.759000      | 28.01          | -20.9                    | 48.91                        | Vertical | 40.00             |
| 87.212500      | 13.94          | -21.5                    | 35.44                        | Vertical | 40.00             |
| 144.614500     | 18.63          | -21.7                    | 40.33                        | Horizon  | 43.50             |
| 952.875500     | 17.64          | -0.8                     | 18.44                        | Horizon  | 46.00             |

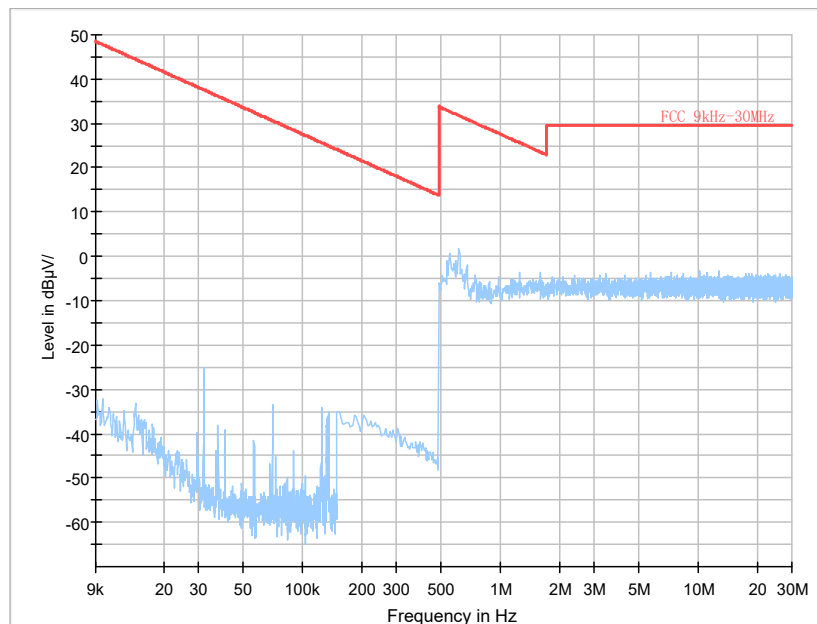
For 802.11 n(HT40) Channel No.:8

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.061000      | 34.45          | -18.0                    | 52.45                        | Vertical | 40.00             |
| 42.601000      | 28.72          | -17.8                    | 46.52                        | Vertical | 40.00             |
| 66.072500      | 24.72          | -20.4                    | 45.12                        | Vertical | 40.00             |
| 87.657500      | 16.91          | -21.3                    | 38.21                        | Vertical | 40.00             |
| 151.065000     | 14.47          | -21.5                    | 35.97                        | Horizon  | 43.50             |
| 895.764500     | 17.20          | -1.6                     | 18.80                        | Vertical | 46.00             |

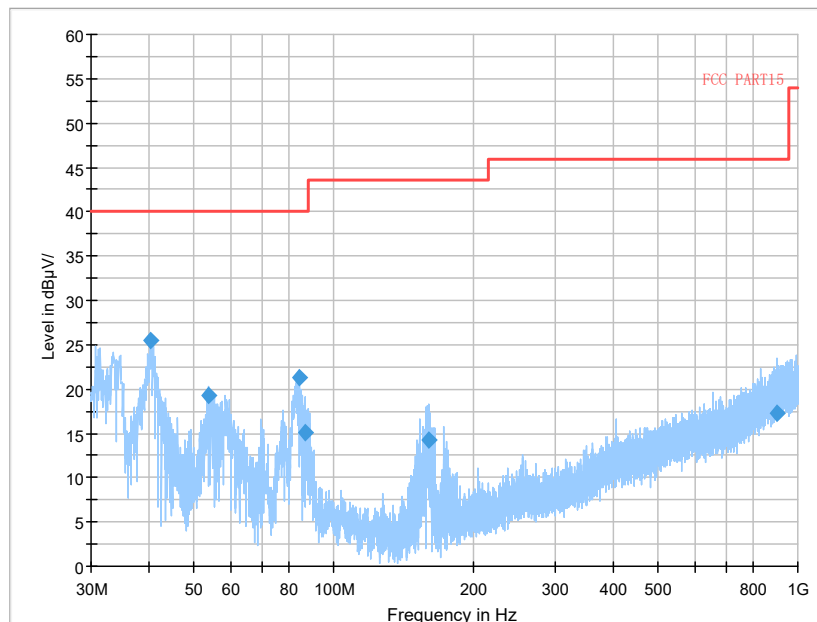
For 802.11 n(HT40) Channel No.:9

| Frequency(MHz) | Result(dBuV/m) | A <sub>Rpl</sub><br>(dB) | P <sub>mea</sub><br>(dBuV/m) | Polarity | Limit<br>(dBuV/m) |
|----------------|----------------|--------------------------|------------------------------|----------|-------------------|
| 41.029500      | 33.94          | -18.0                    | 51.94                        | Vertical | 40.00             |
| 42.969500      | 28.80          | -17.8                    | 46.60                        | Vertical | 40.00             |
| 65.562000      | 22.72          | -20.2                    | 42.92                        | Vertical | 40.00             |
| 86.796500      | 11.96          | -21.6                    | 33.56                        | Vertical | 40.00             |
| 151.093000     | 15.41          | -21.5                    | 36.91                        | Horizon  | 43.50             |
| 892.150000     | 17.17          | -1.7                     | 18.87                        | Vertical | 46.00             |

Carrier frequency (MHz): 2412  
Channel No.:1

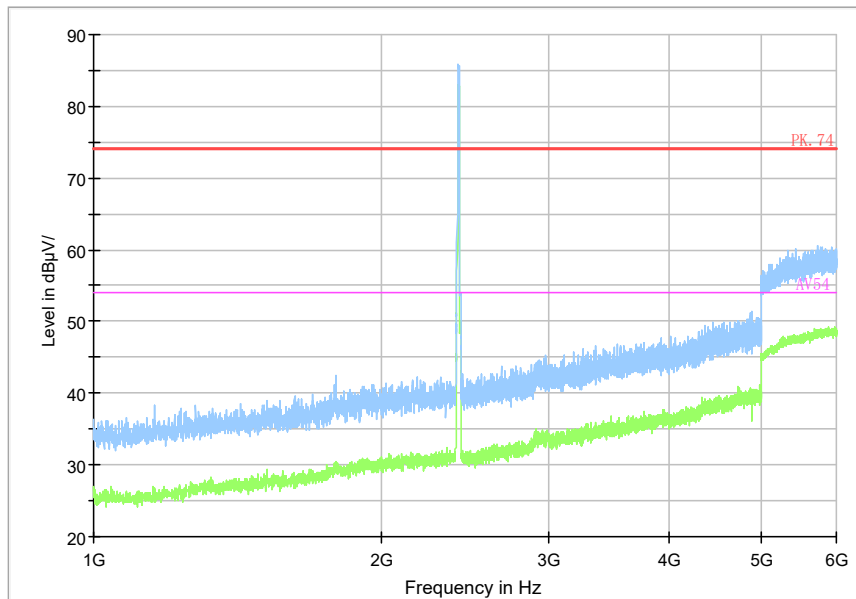


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11b

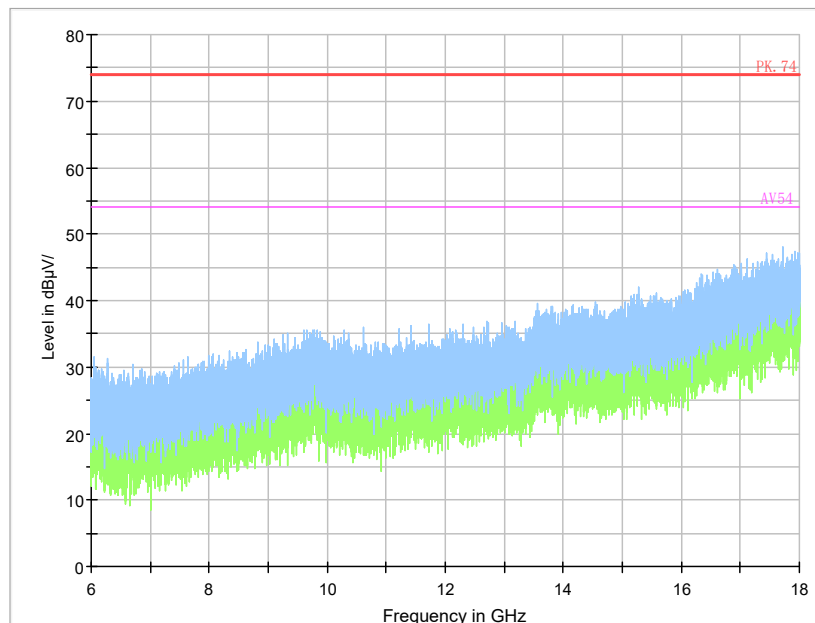


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11b

Full Spectrum

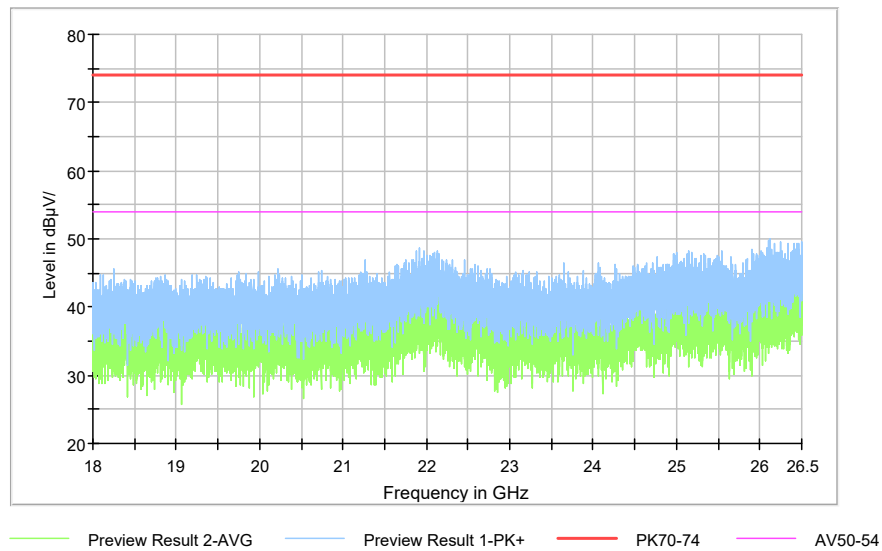


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

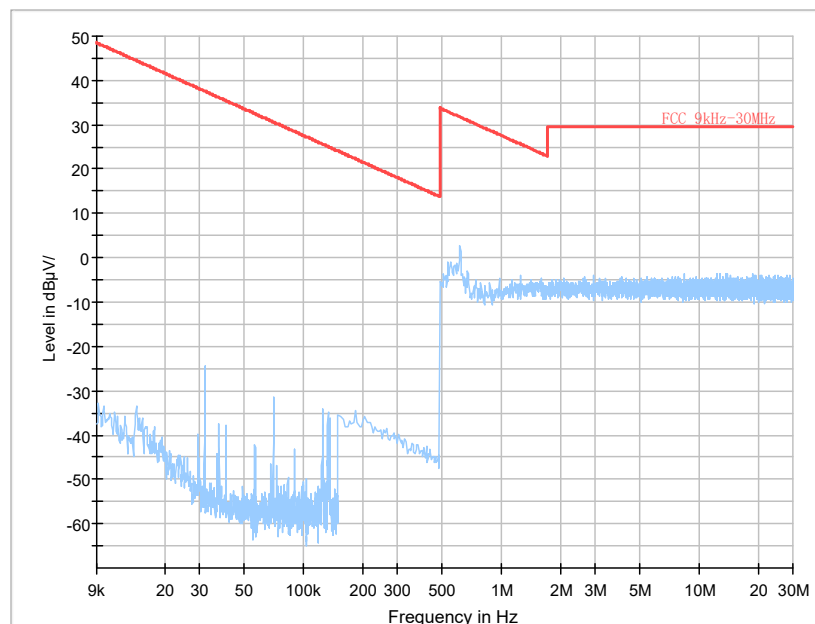
Full Spectrum



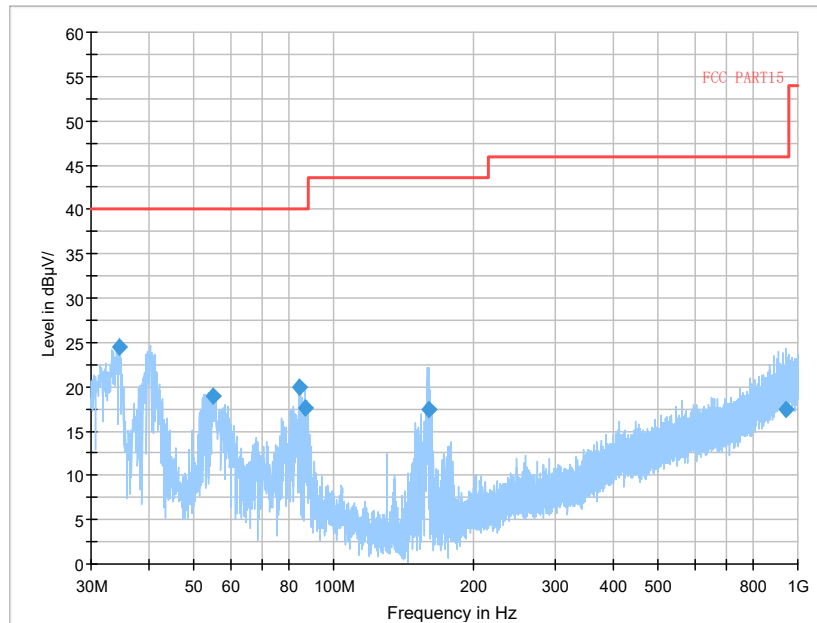
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Carrier frequency (MHz): 2417  
Channel No.:2

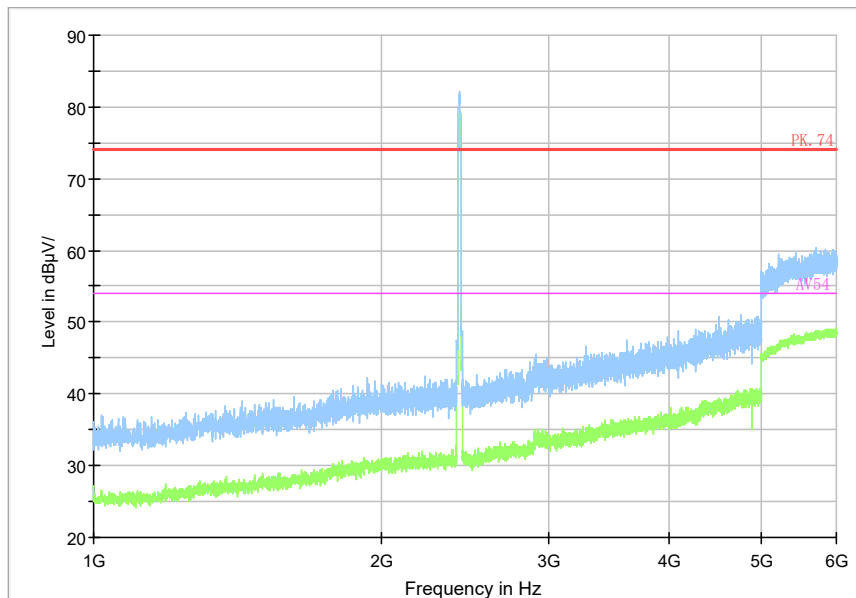


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Modulation type: 802.11b

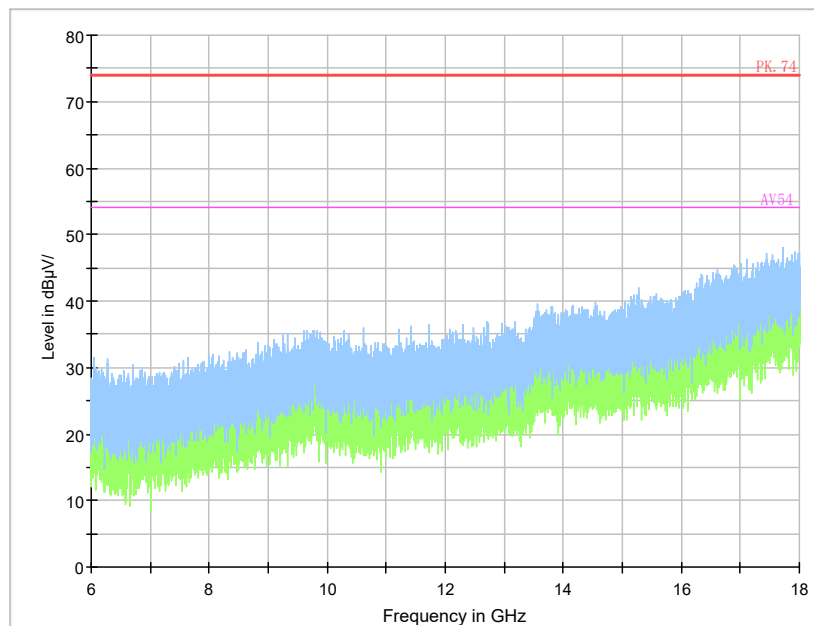


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Modulation type: 802.11b

Full Spectrum

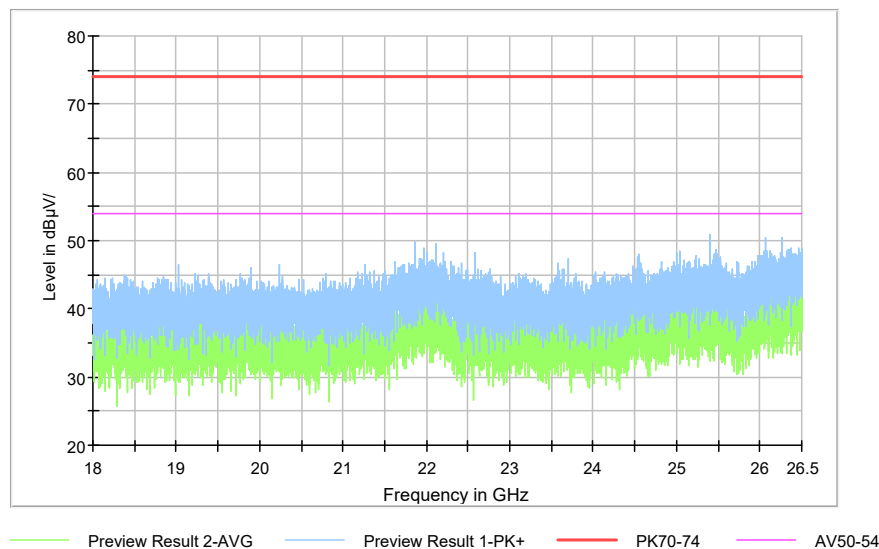


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

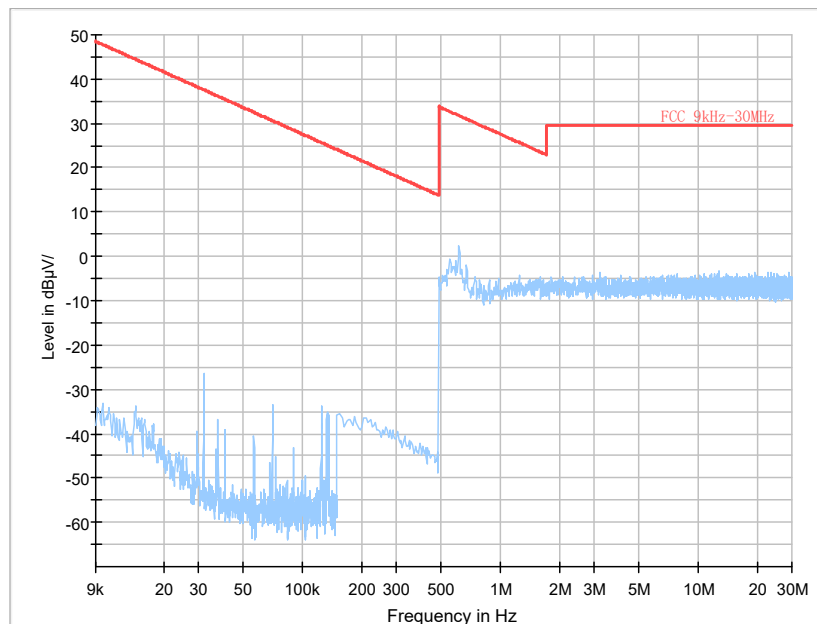
Full Spectrum



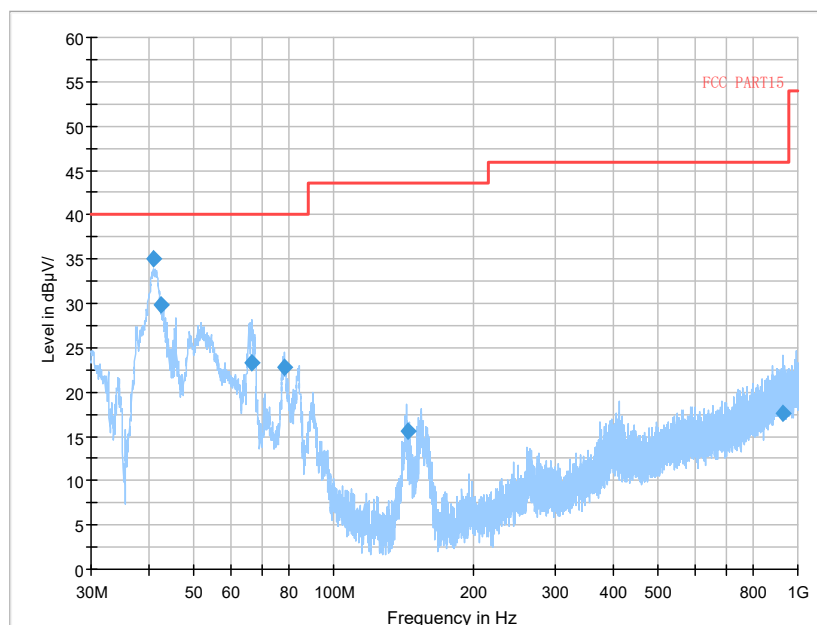
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Carrier frequency (MHz): 2437  
Channel No.:6

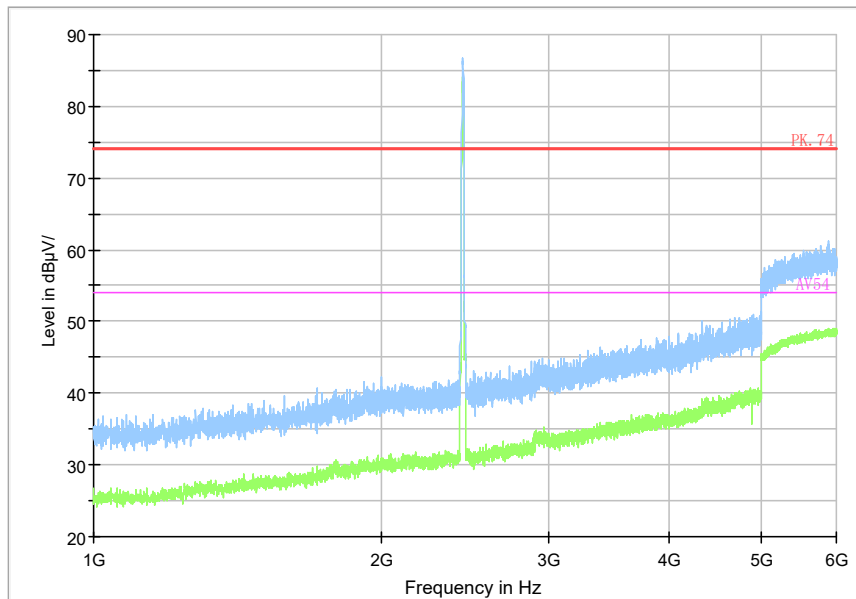


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11b

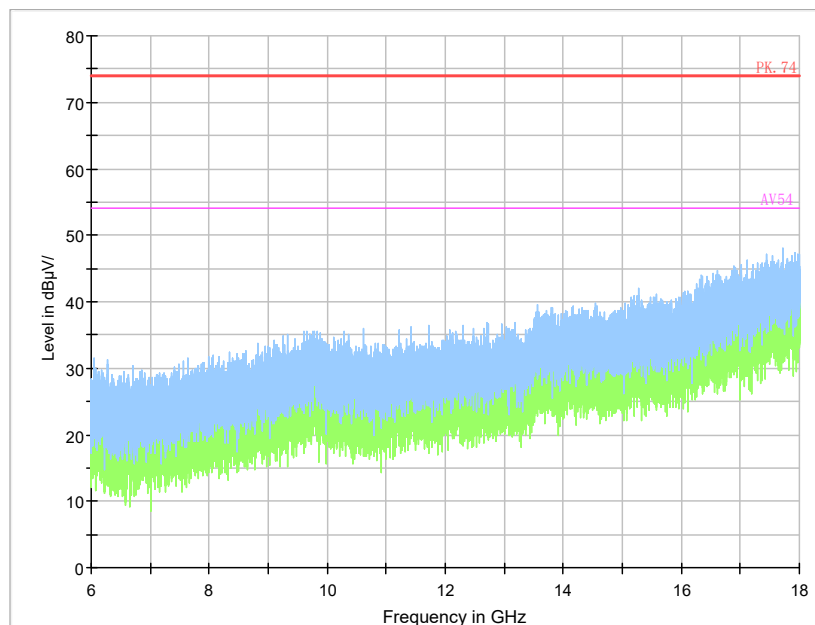


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11b

Full Spectrum

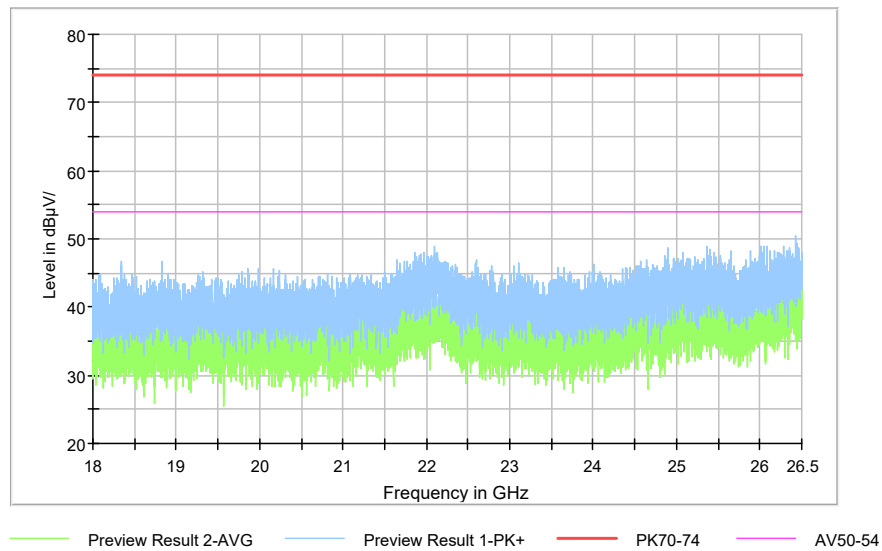


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

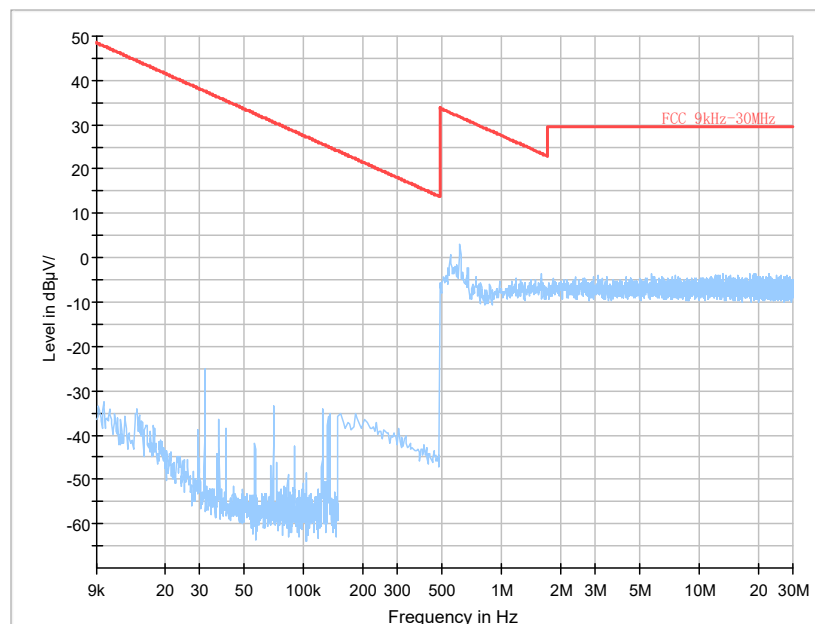
Full Spectrum



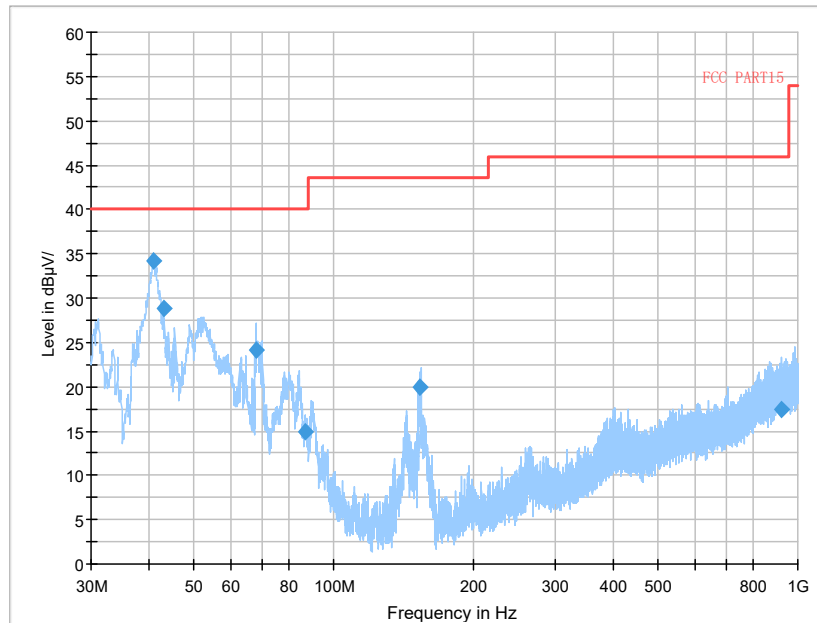
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Carrier frequency (MHz): 2457  
Channel No.:10

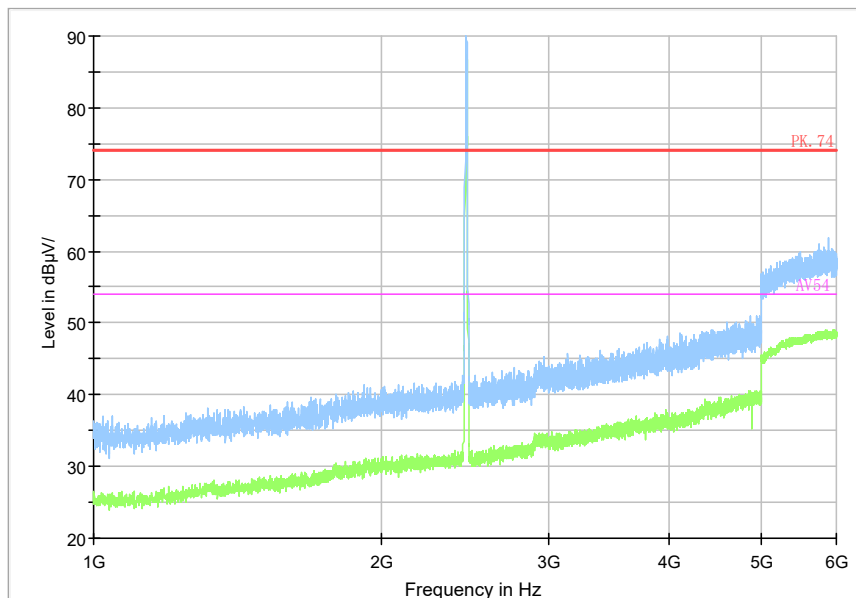


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11b

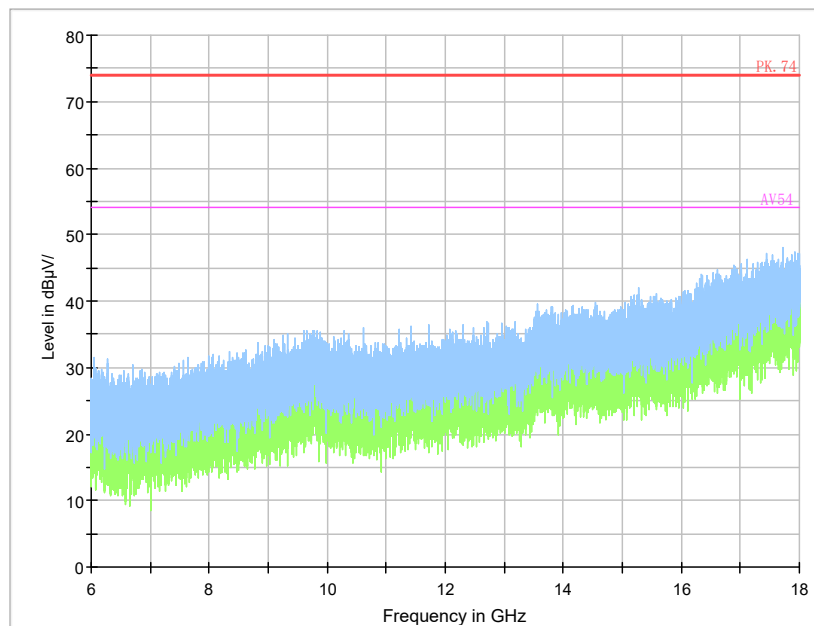


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11b

Full Spectrum

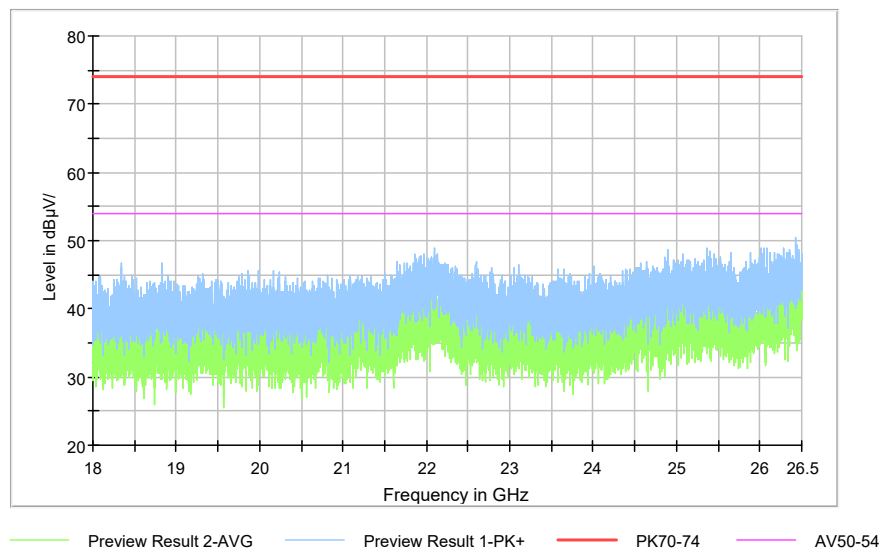


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

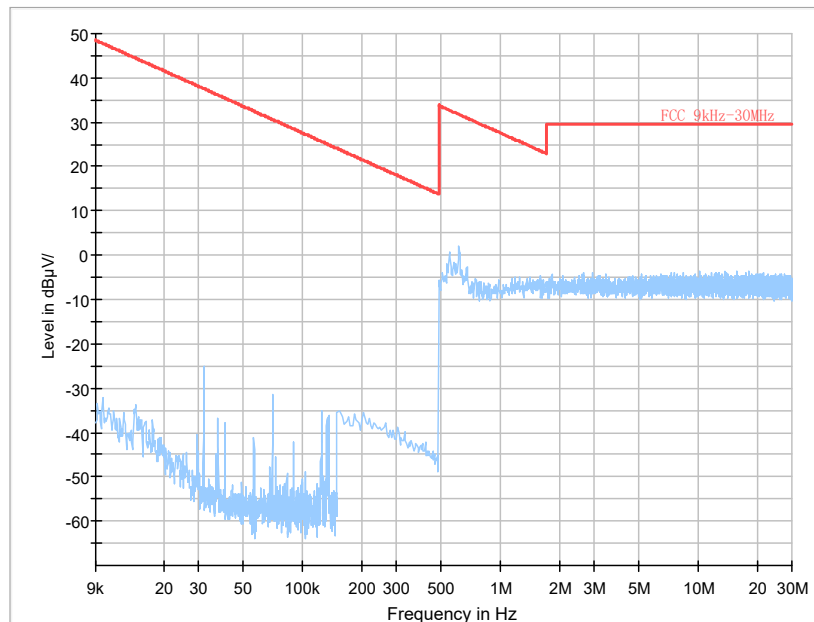
Full Spectrum



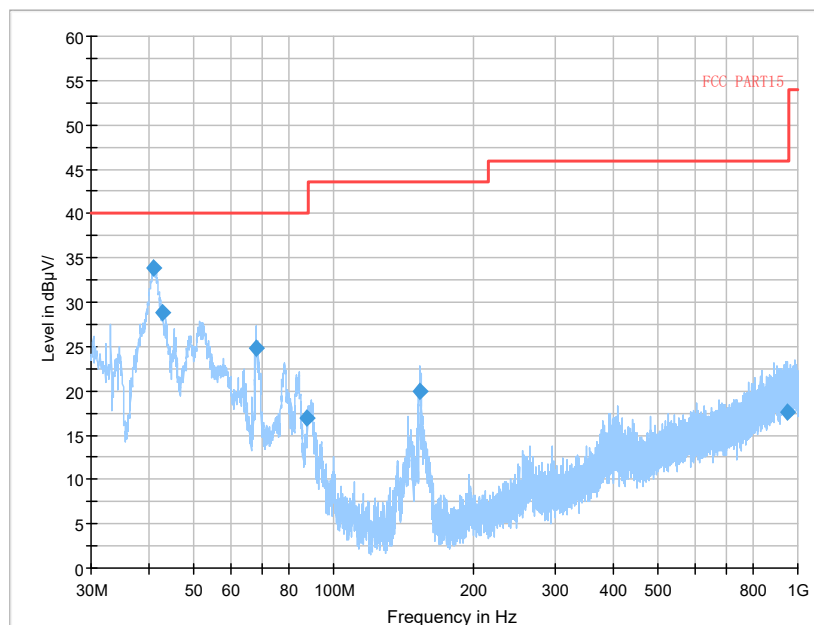
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Carrier frequency (MHz): 2462  
Channel No.:11

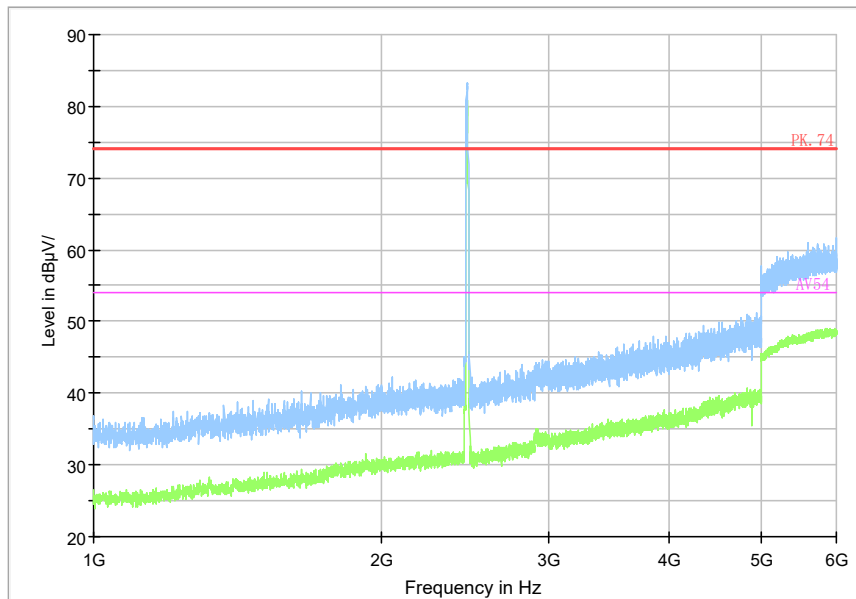


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11b

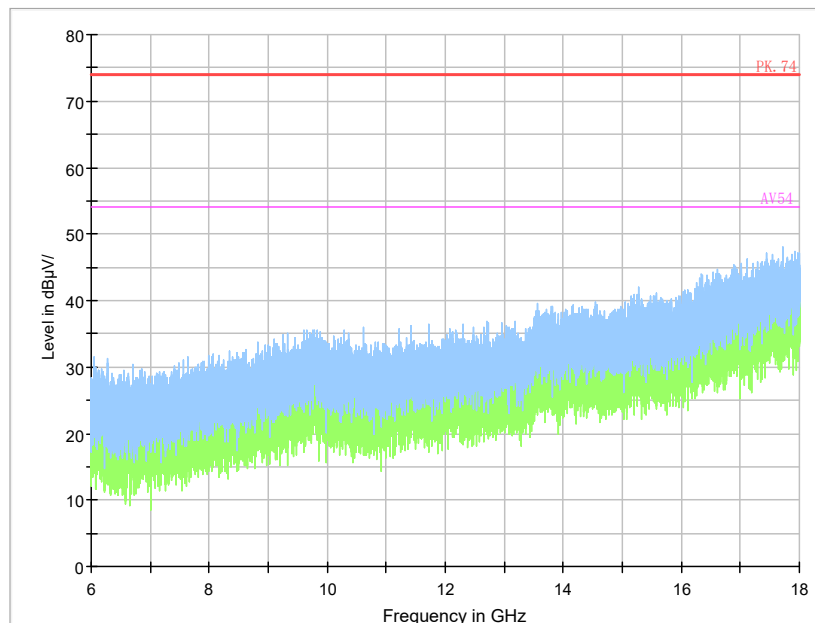


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11b

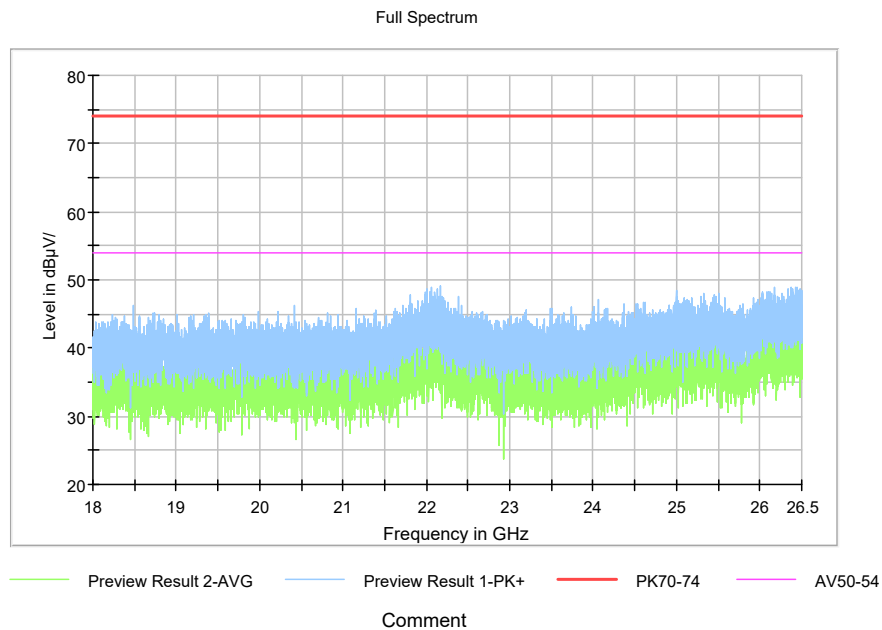
Full Spectrum



Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

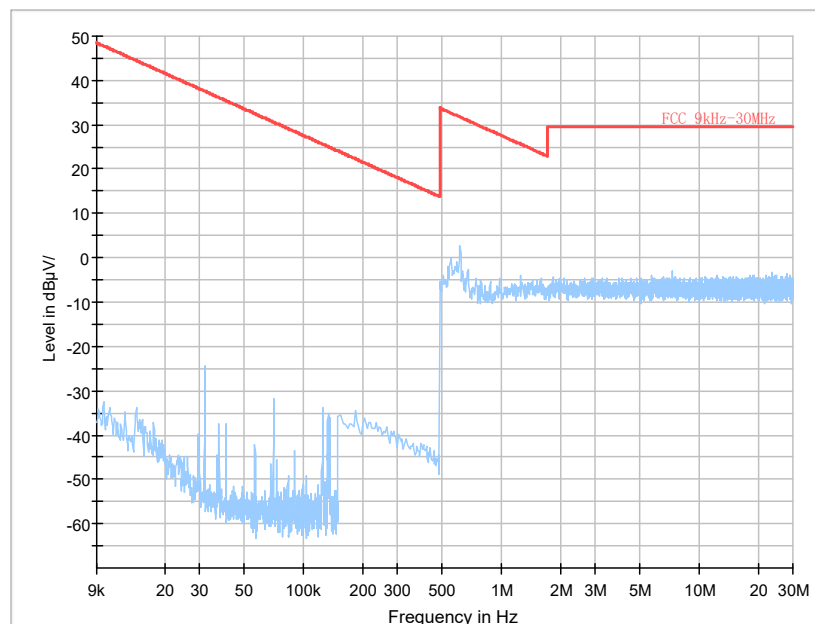


Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

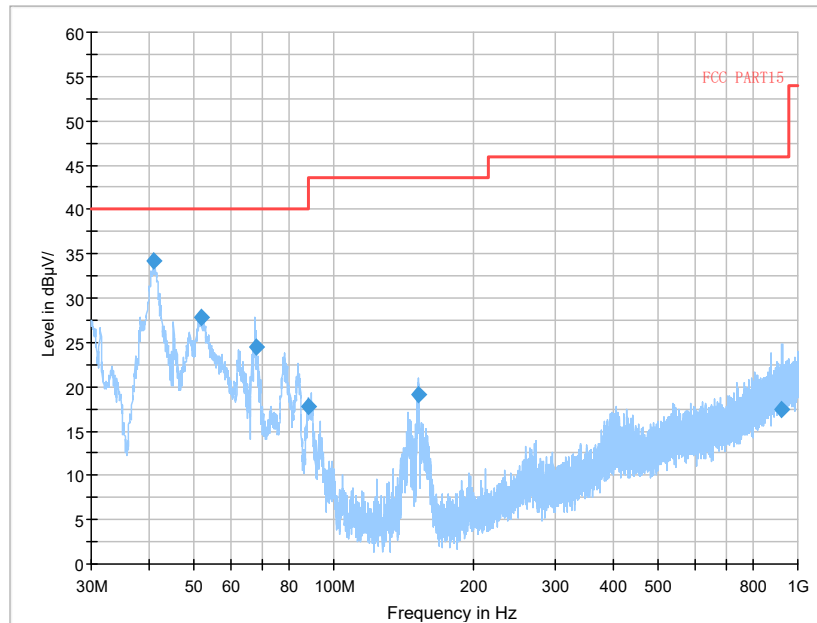


Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Carrier frequency (MHz): 2412  
Channel No.:1

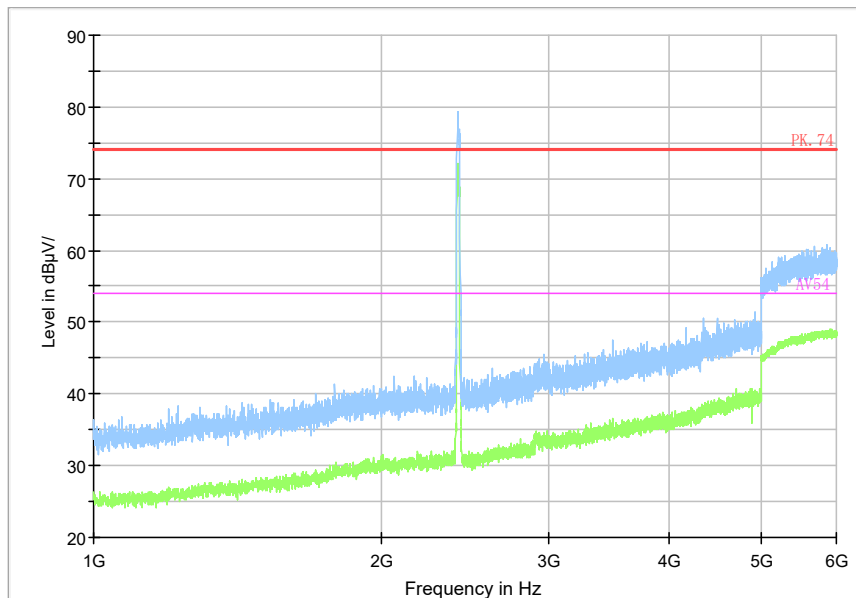


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11g

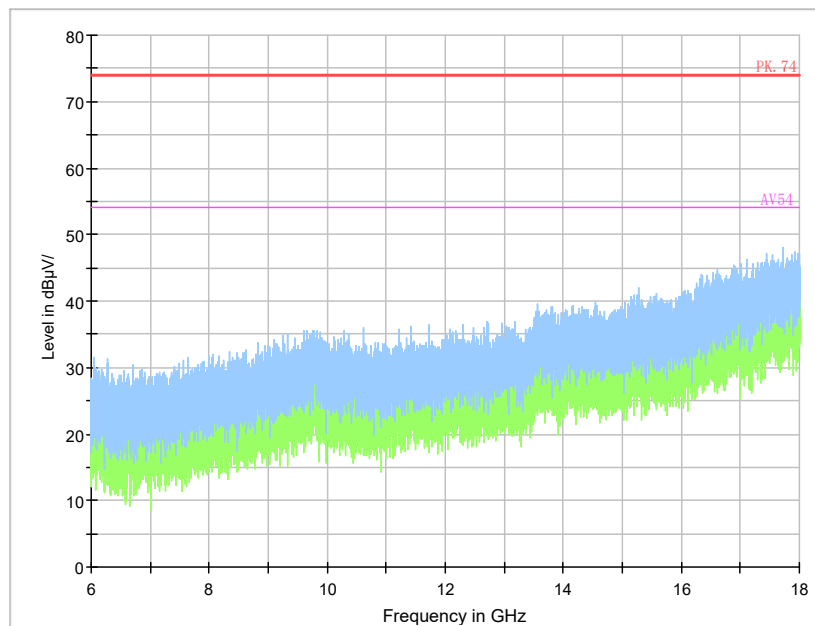


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11g

Full Spectrum

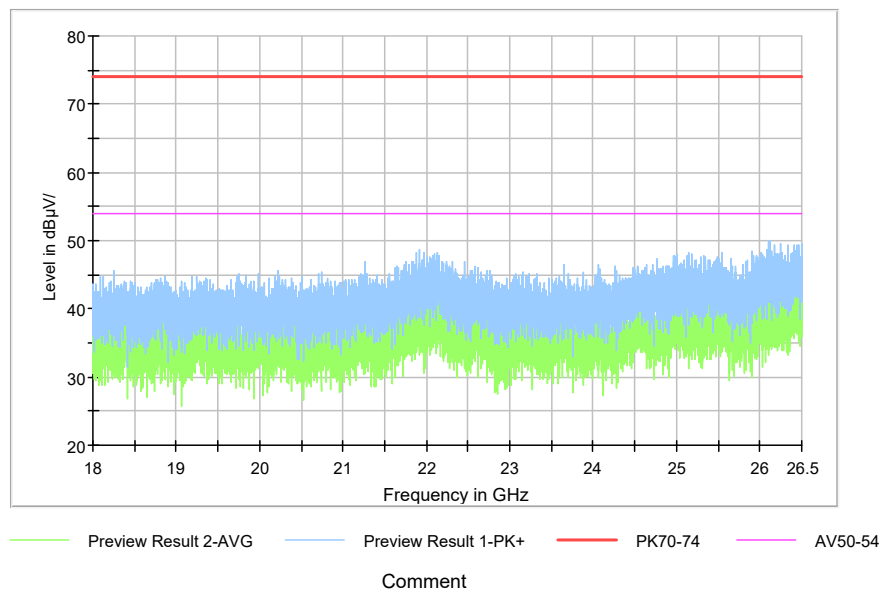


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g



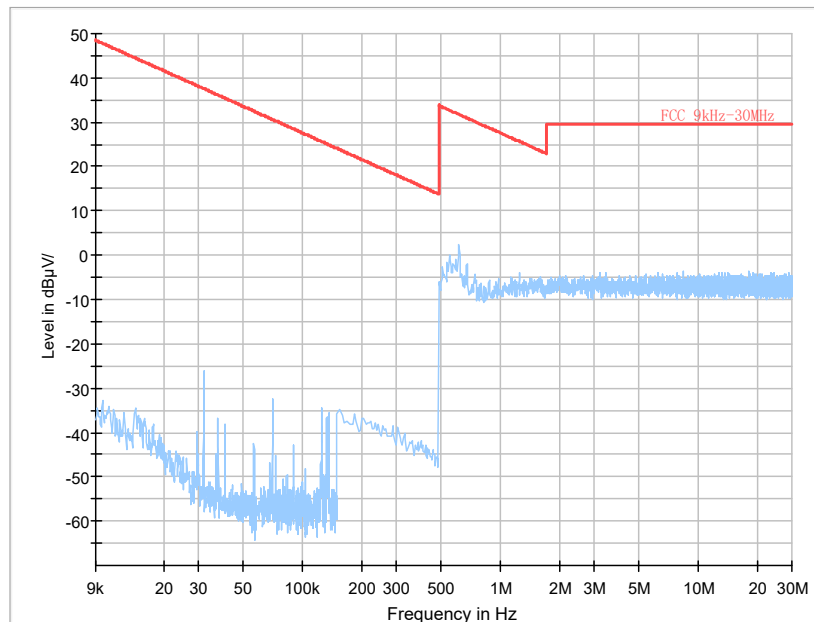
Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Full Spectrum

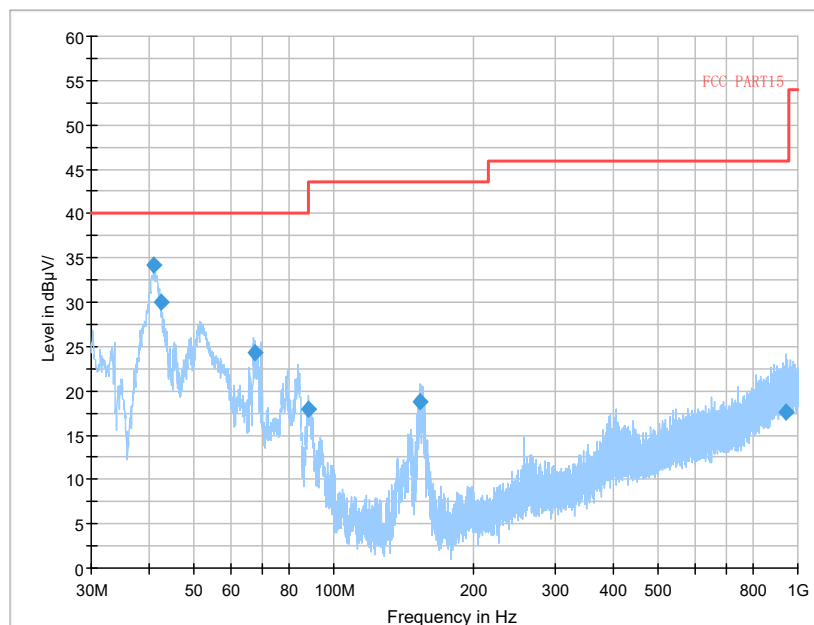


Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Carrier frequency (MHz): 2417  
Channel No.:2

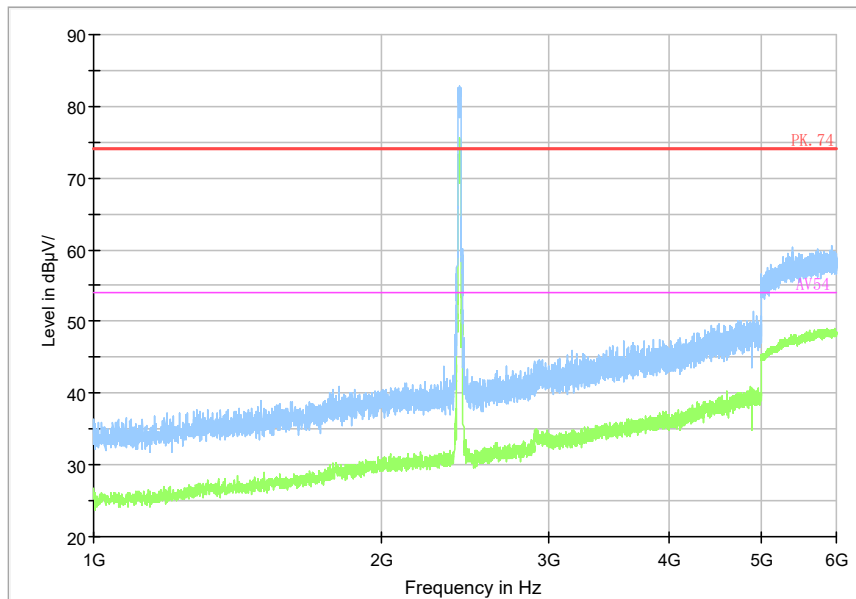


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Modulation type: 802.11g

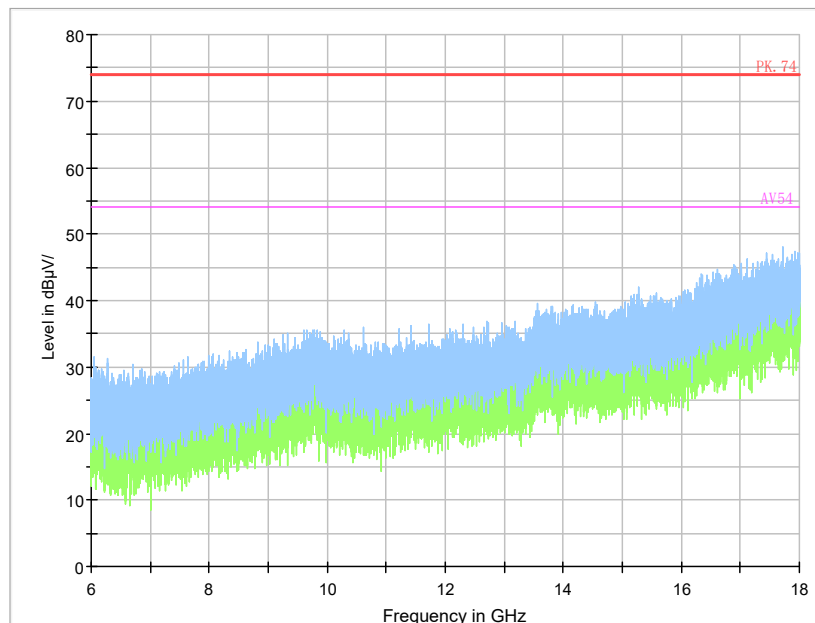


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Modulation type: 802.11g

Full Spectrum

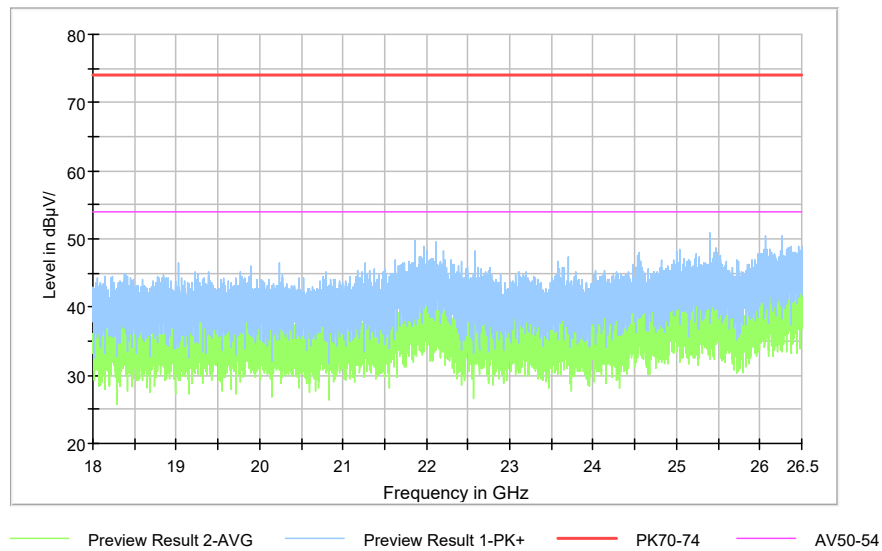


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

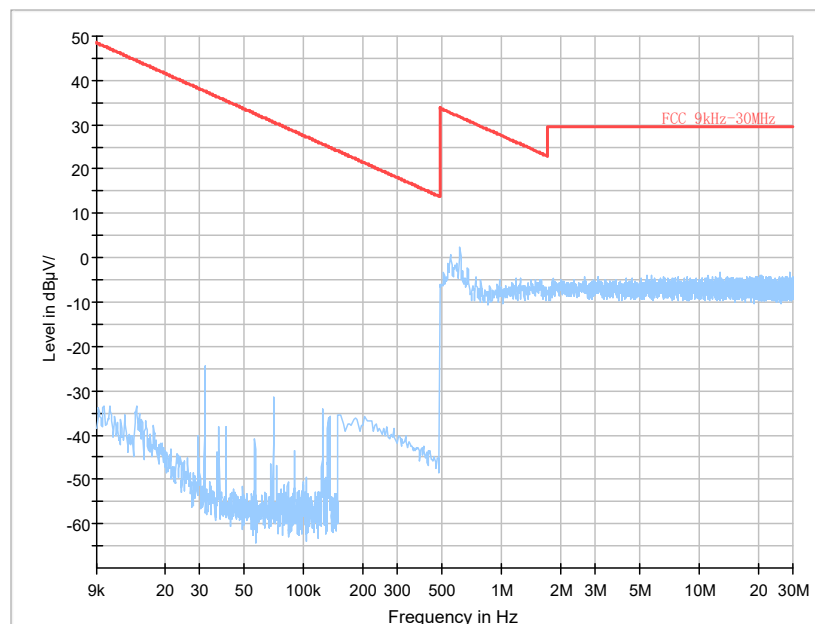
Full Spectrum



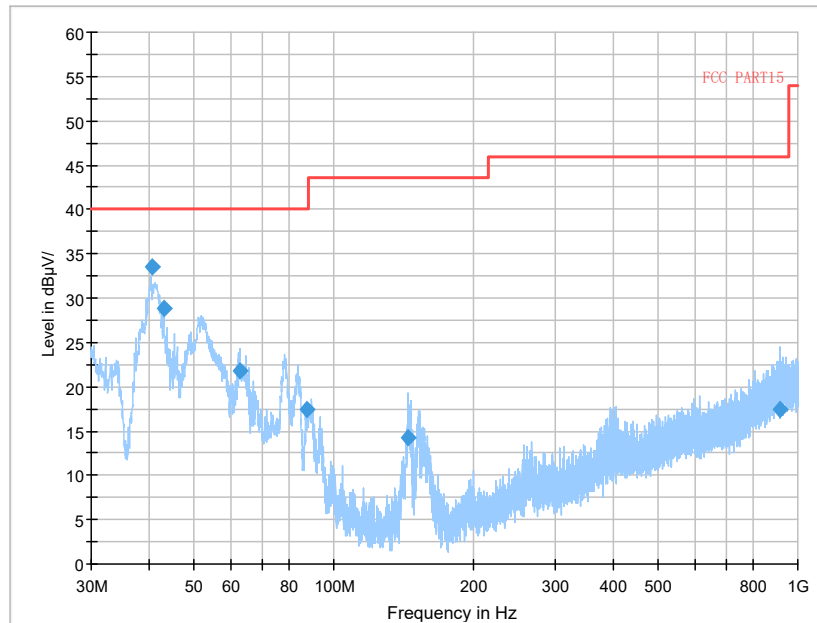
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Carrier frequency (MHz): 2437  
Channel No.:6

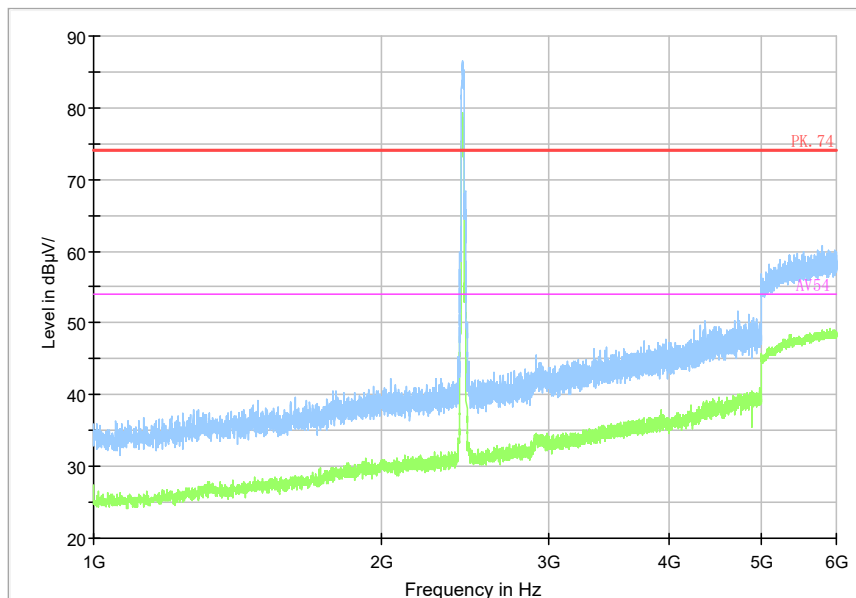


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11g

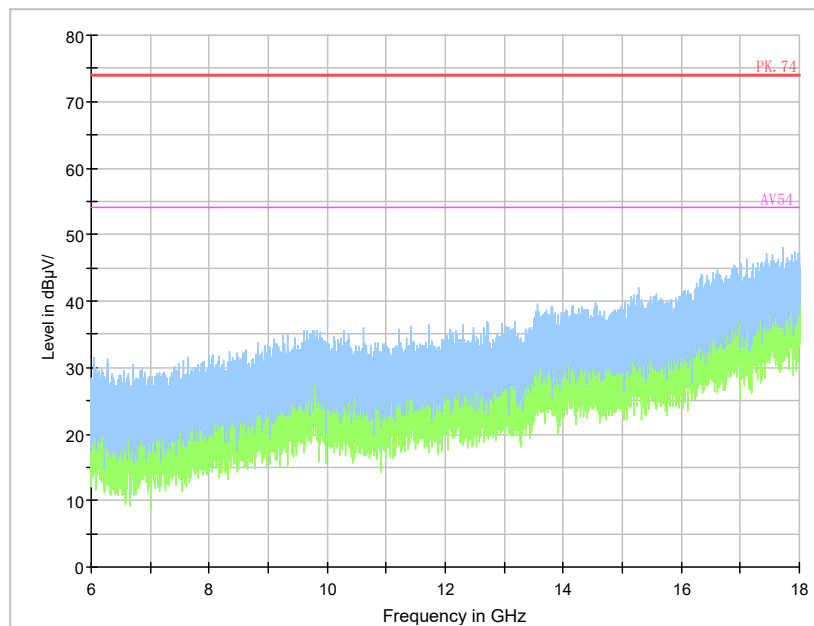


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11g

Full Spectrum

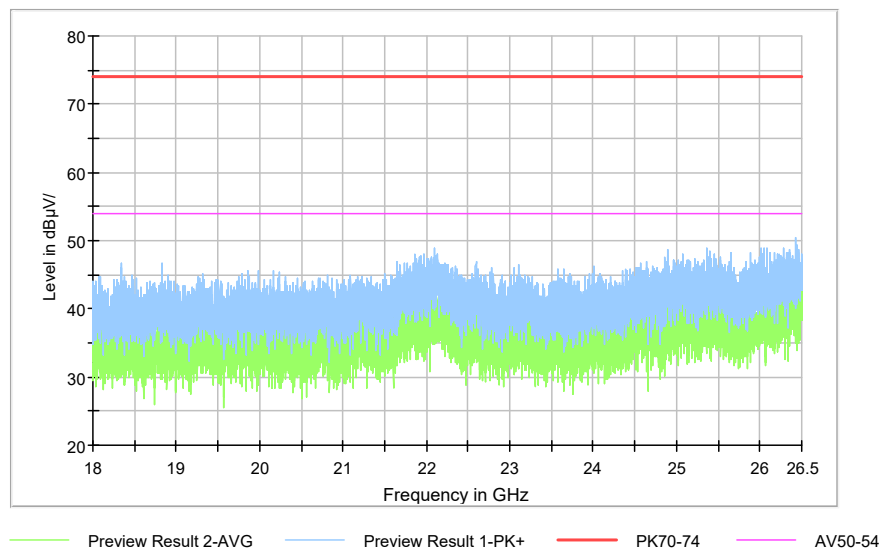


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

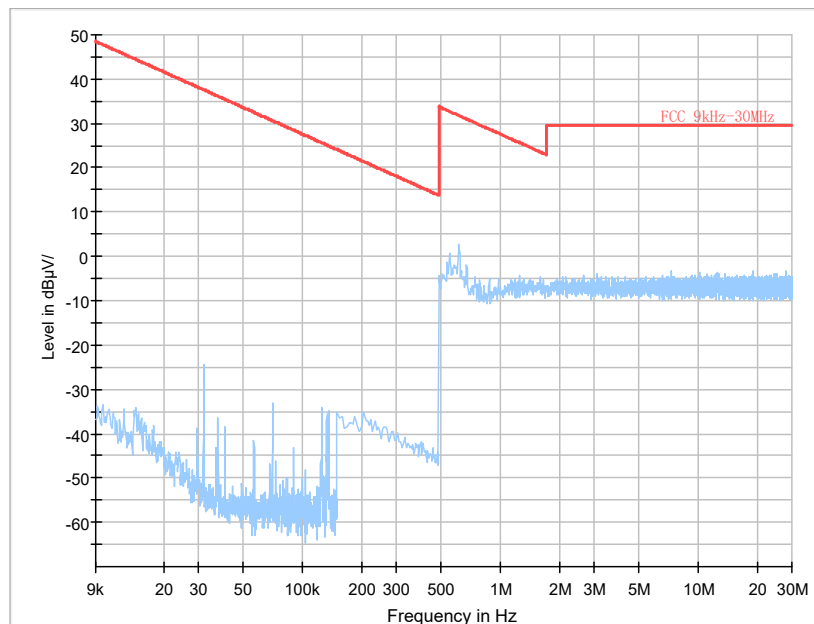
Full Spectrum



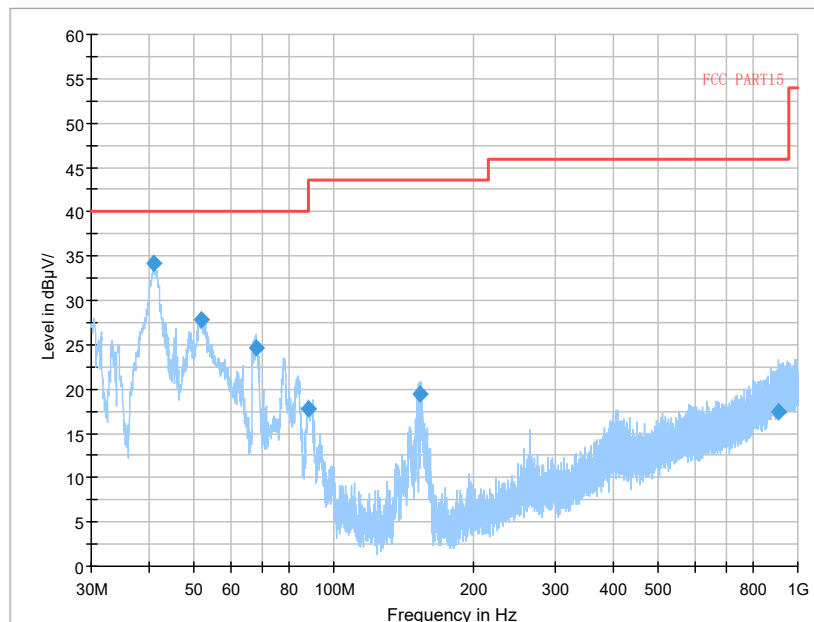
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Carrier frequency (MHz): 2457  
Channel No.:10

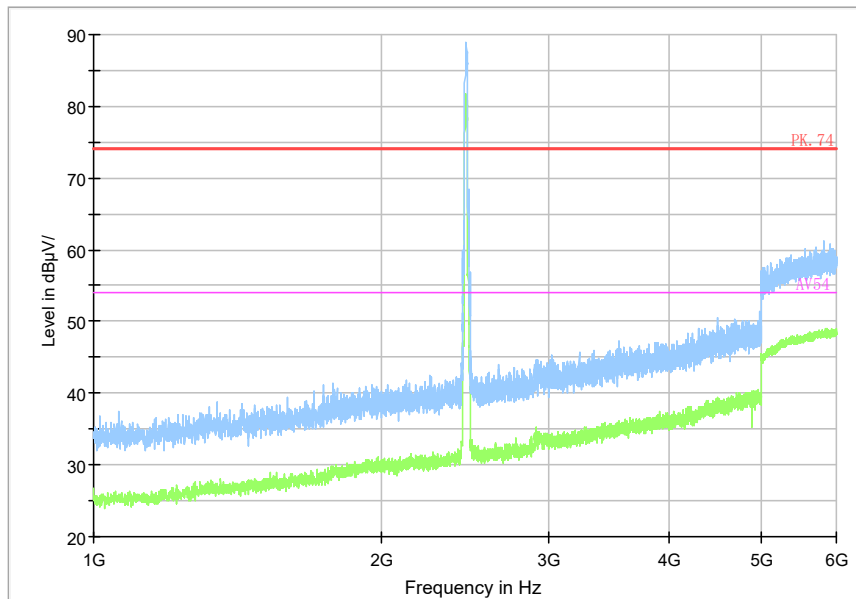


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11g

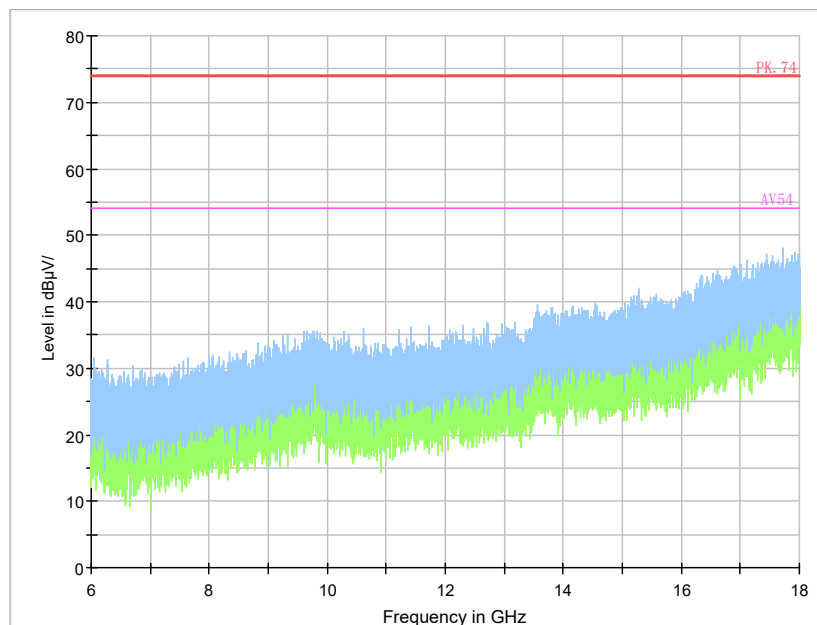


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11g

Full Spectrum

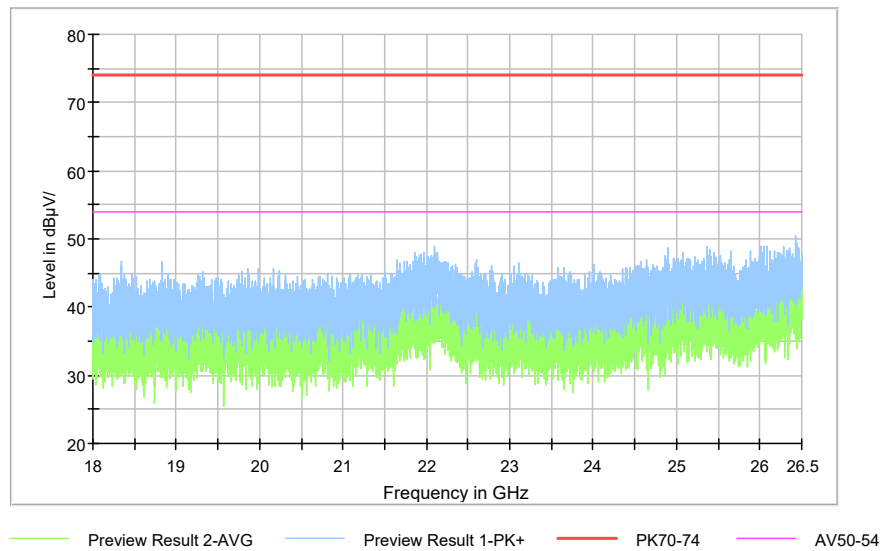


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

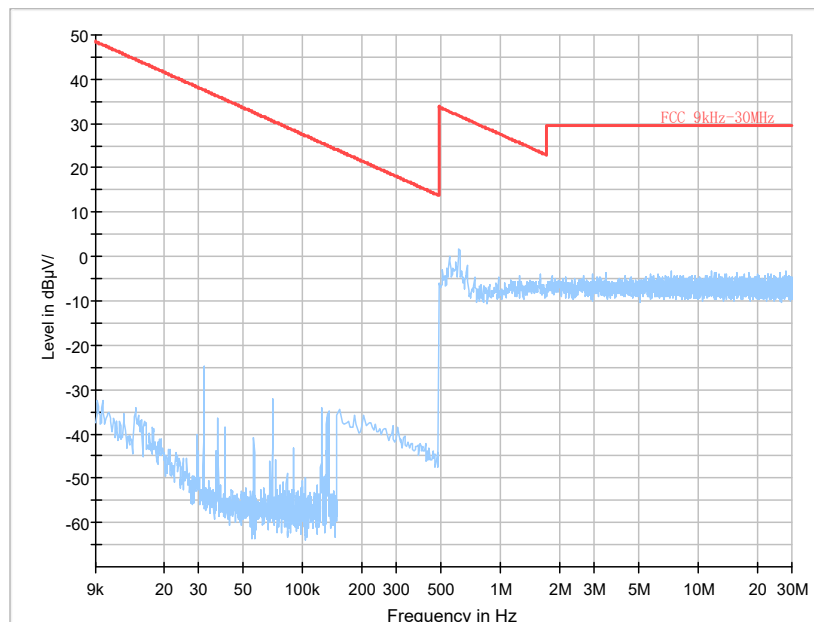
Full Spectrum



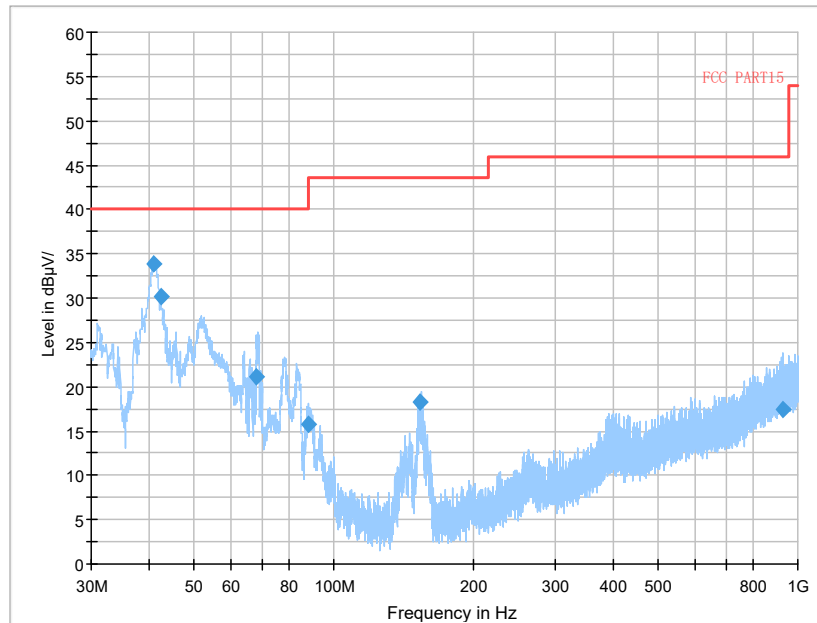
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Carrier frequency (MHz): 2462  
Channel No.:11

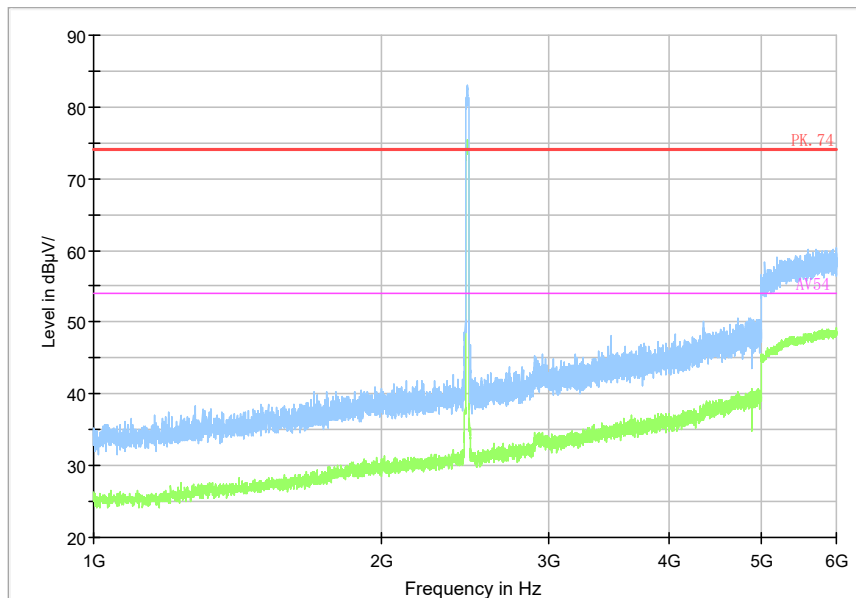


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11g

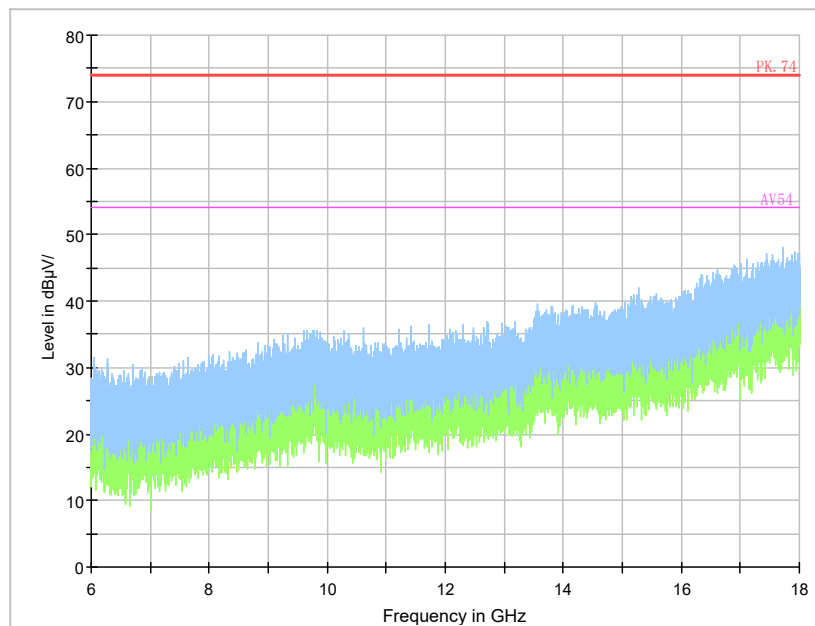


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11g

Full Spectrum

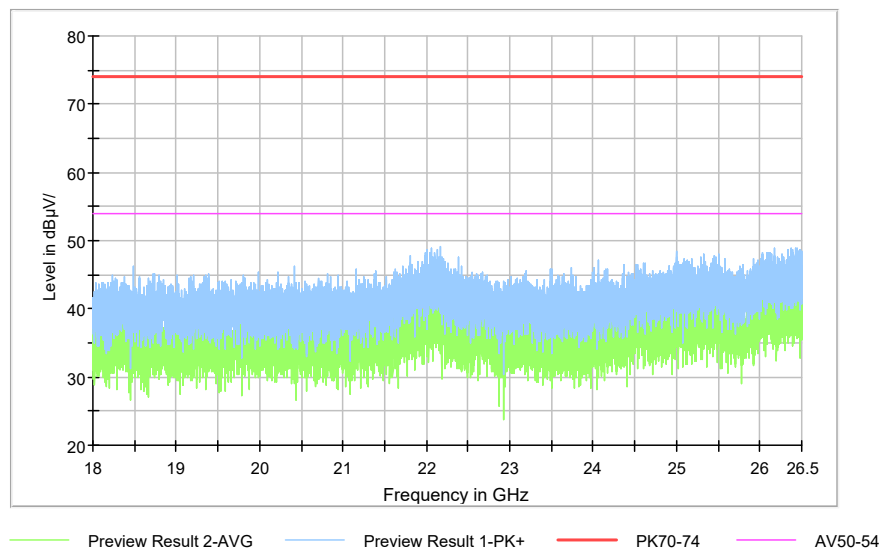


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

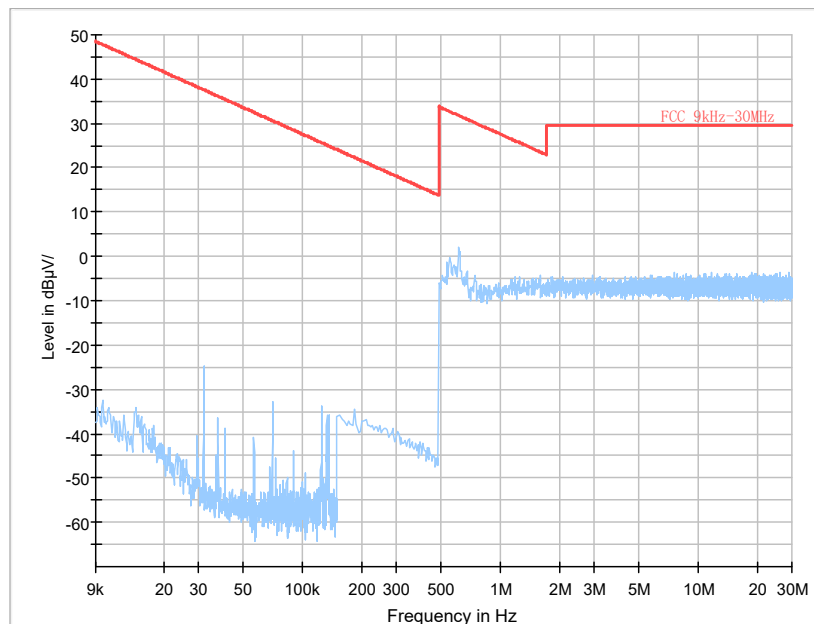
Full Spectrum



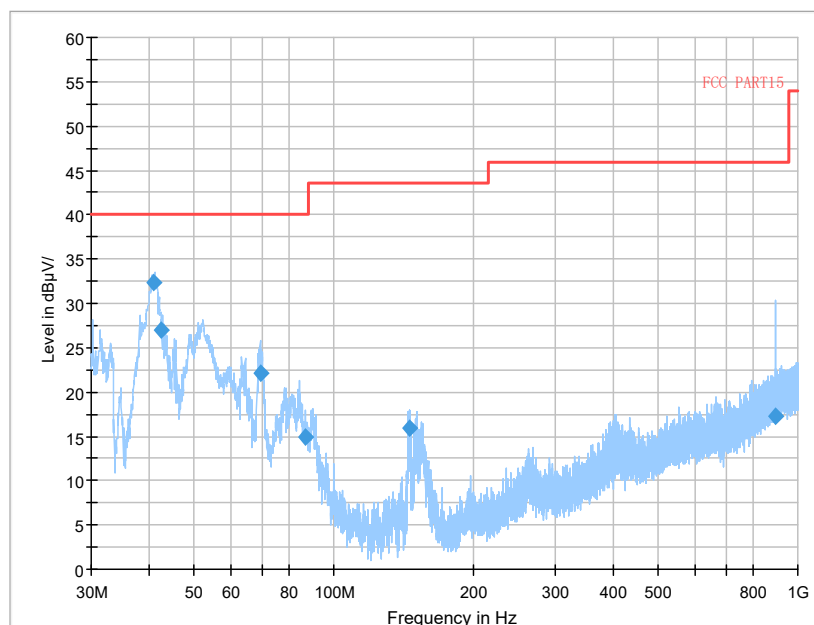
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Carrier frequency (MHz): 2412  
Channel No.:1

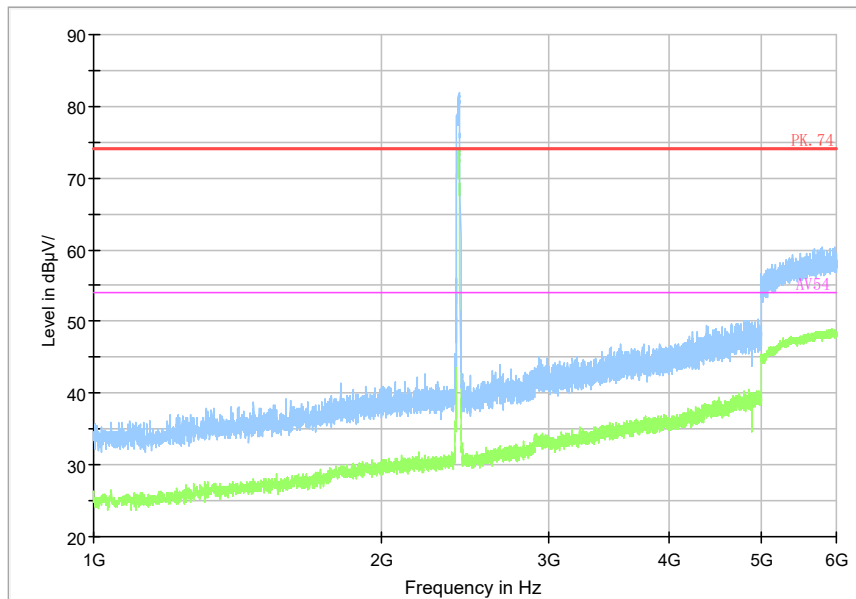


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11n(HT20)

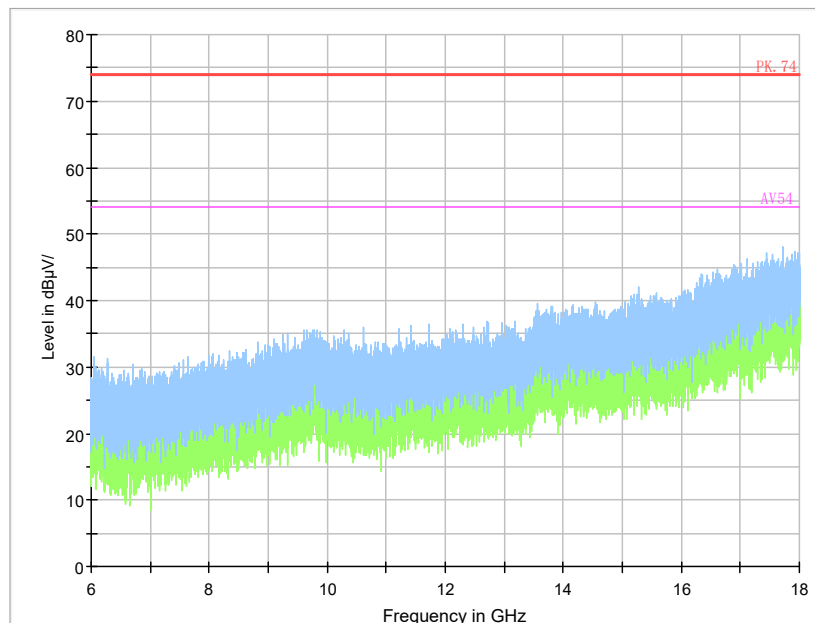


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11n(HT20)

Full Spectrum

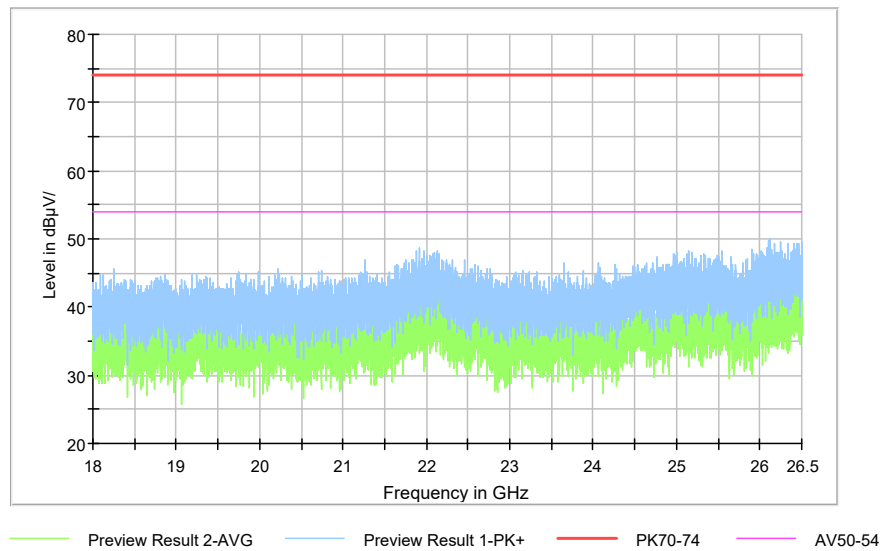


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

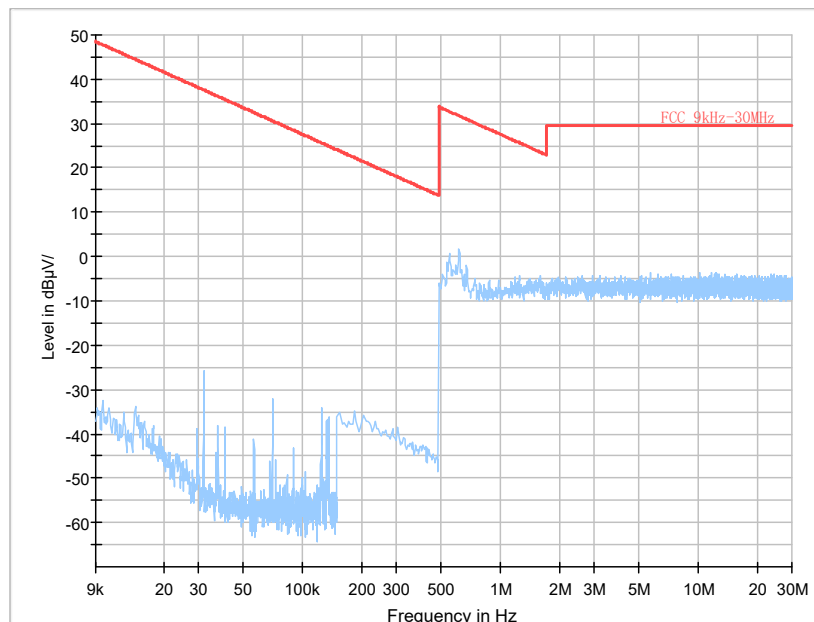
Full Spectrum



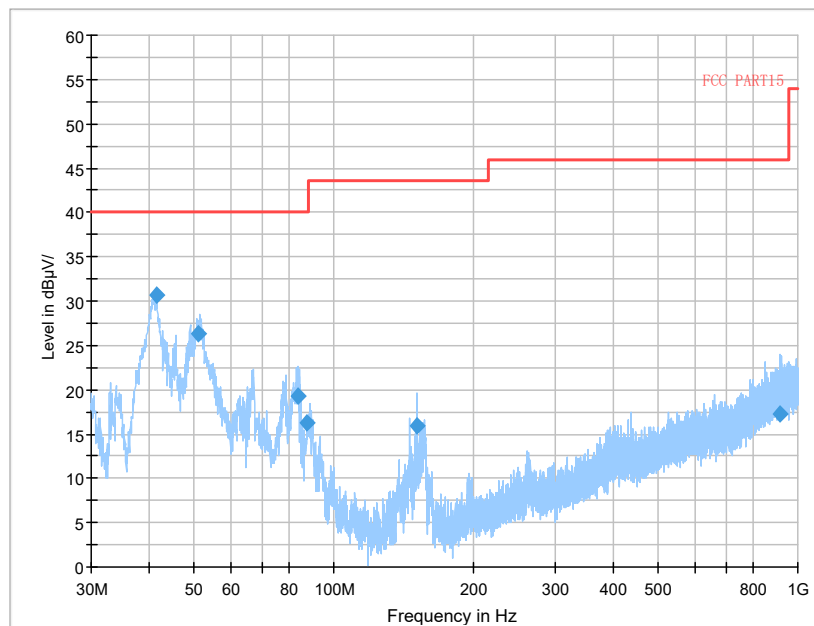
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2417  
Channel No.:2

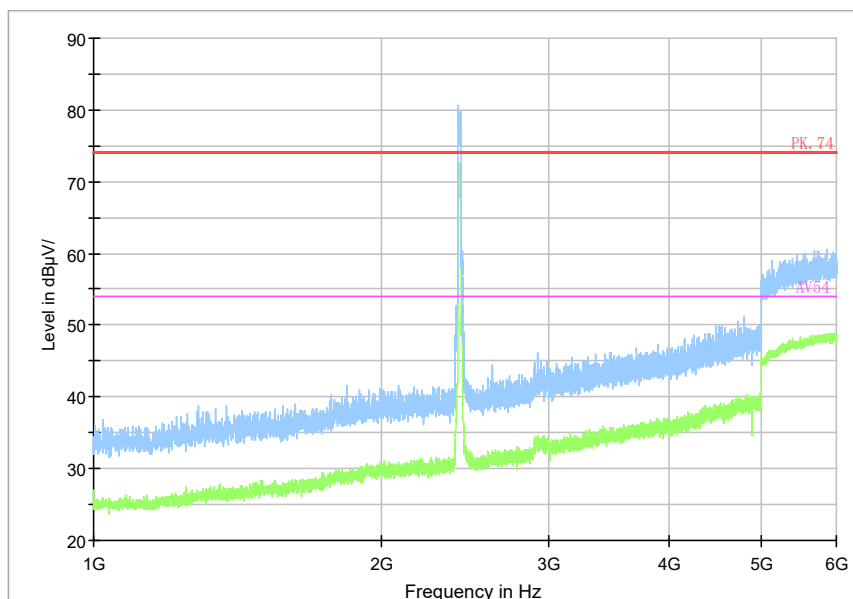


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Modulation type: 802.11 n(HT20)

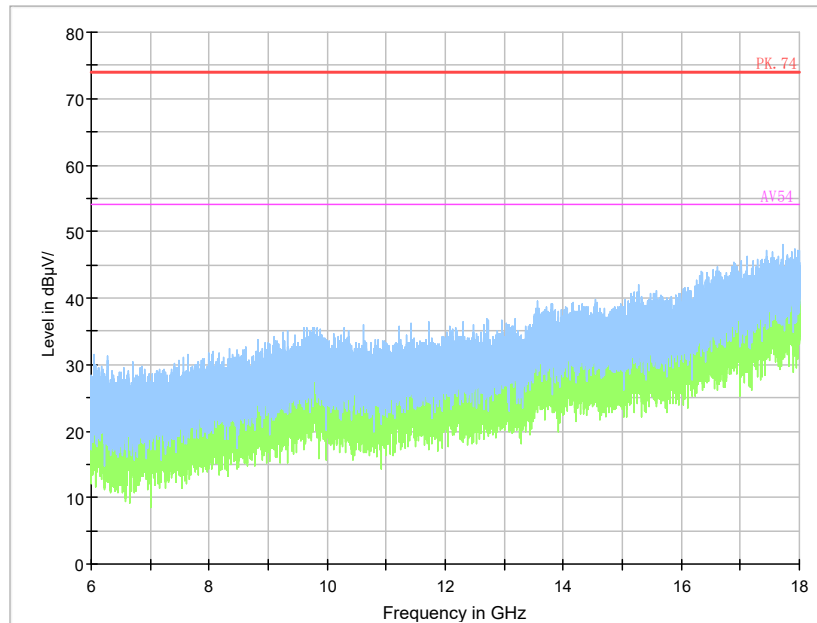


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Modulation type: 802.11 n(HT20)

Full Spectrum

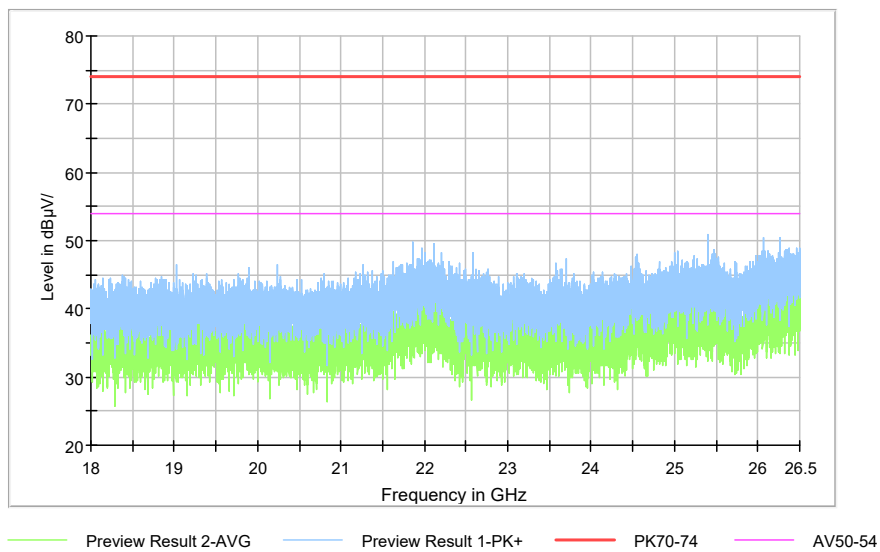


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

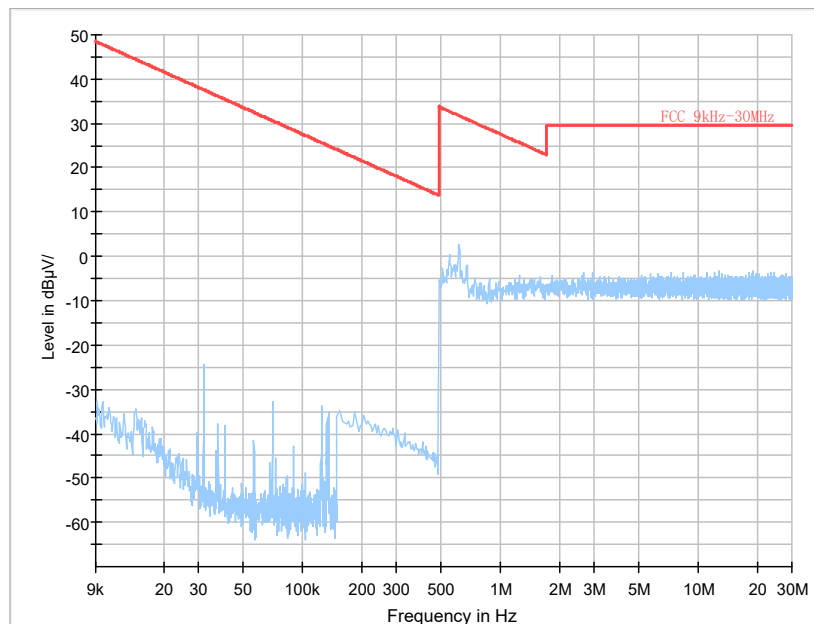
Full Spectrum



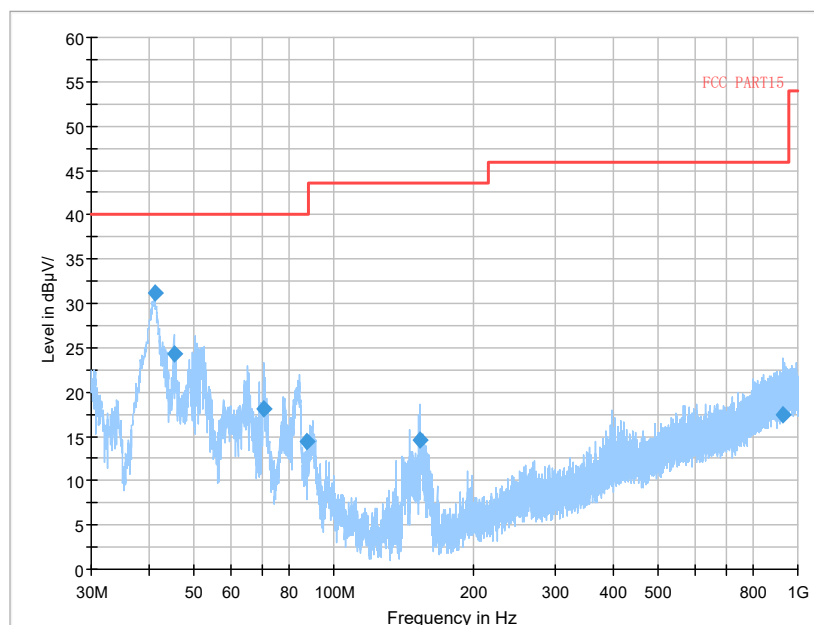
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2437  
Channel No.:6

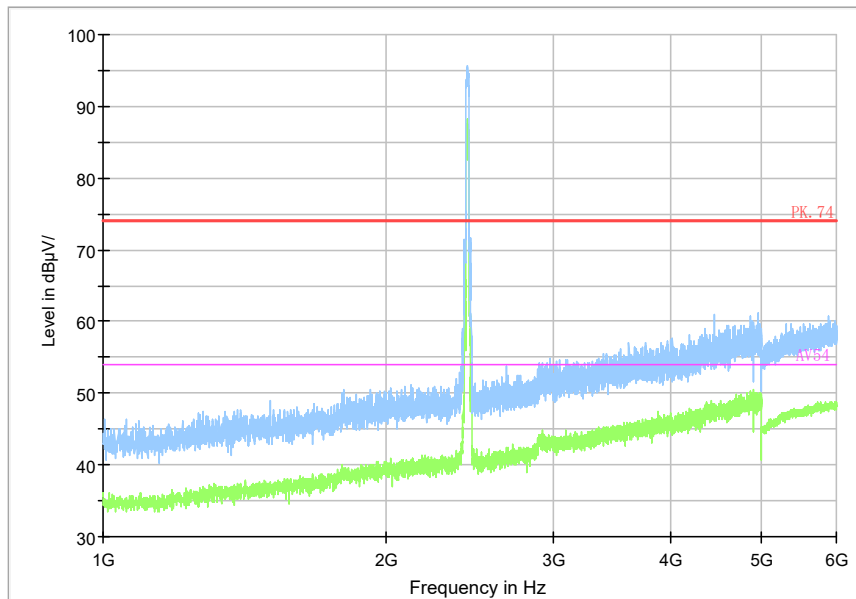


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

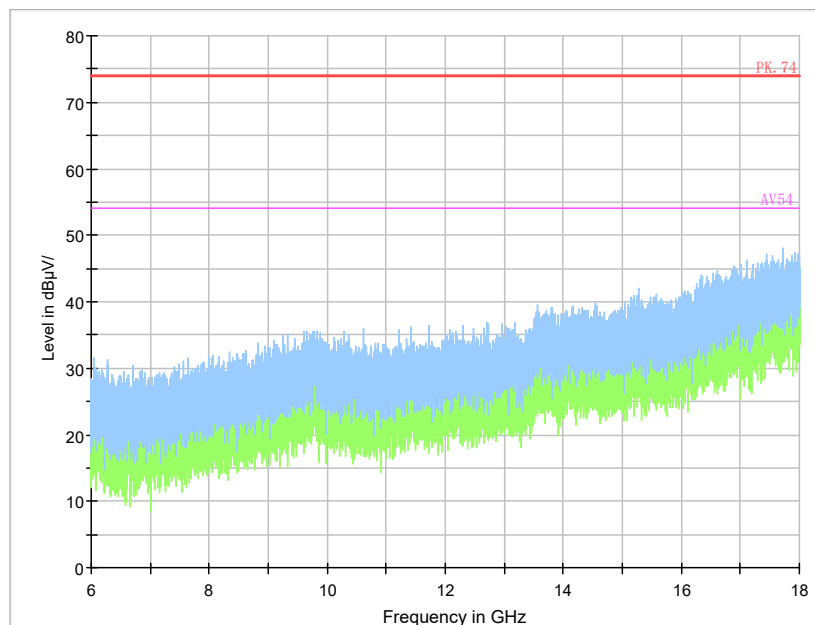


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

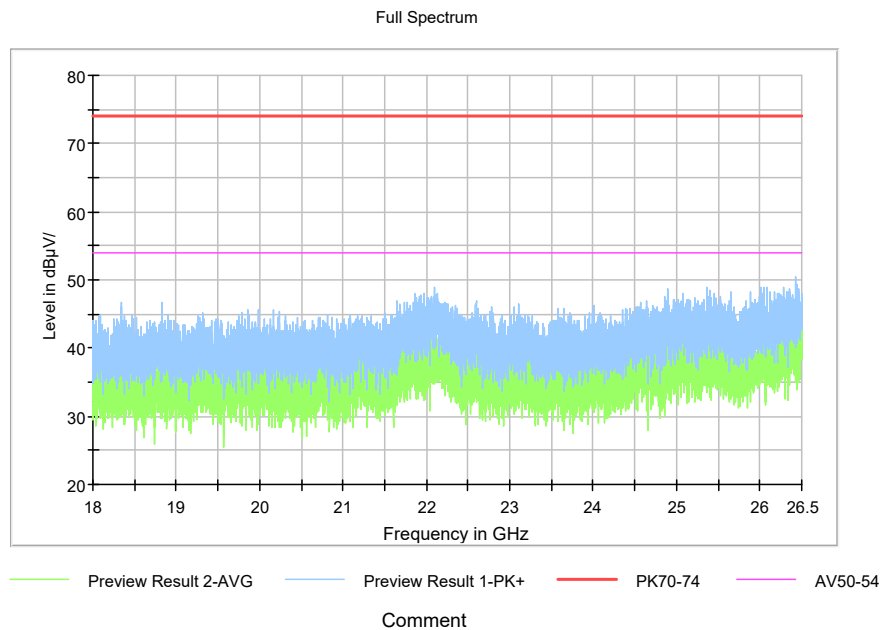
Full Spectrum



Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

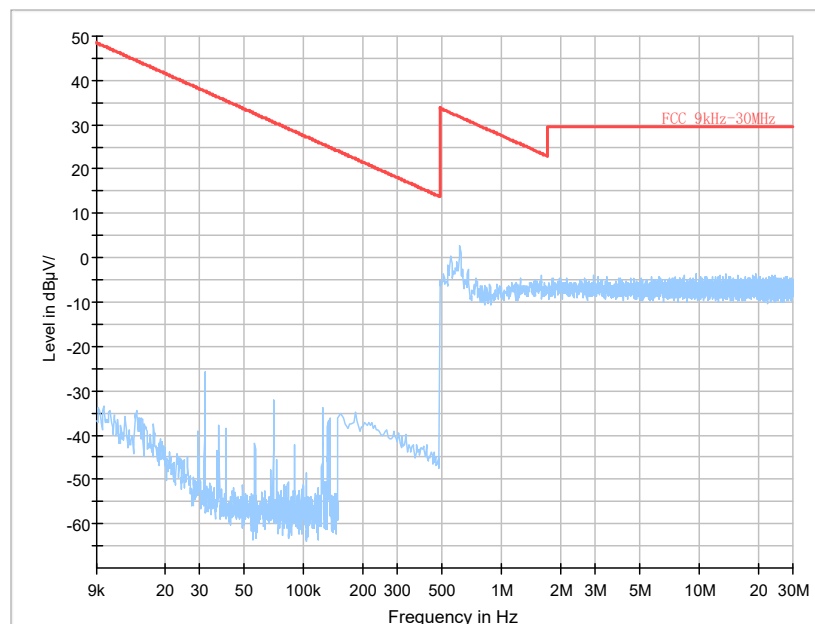


Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

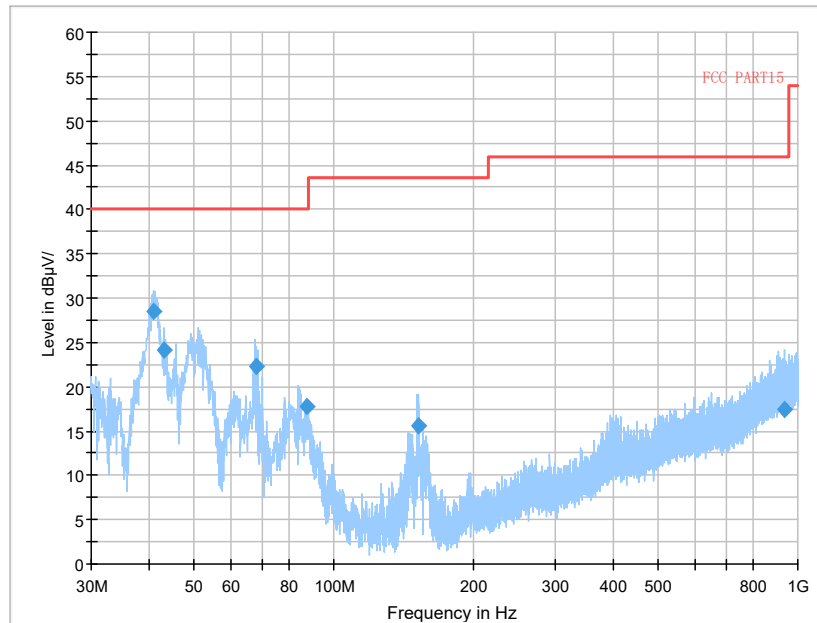


Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2457  
Channel No.:10

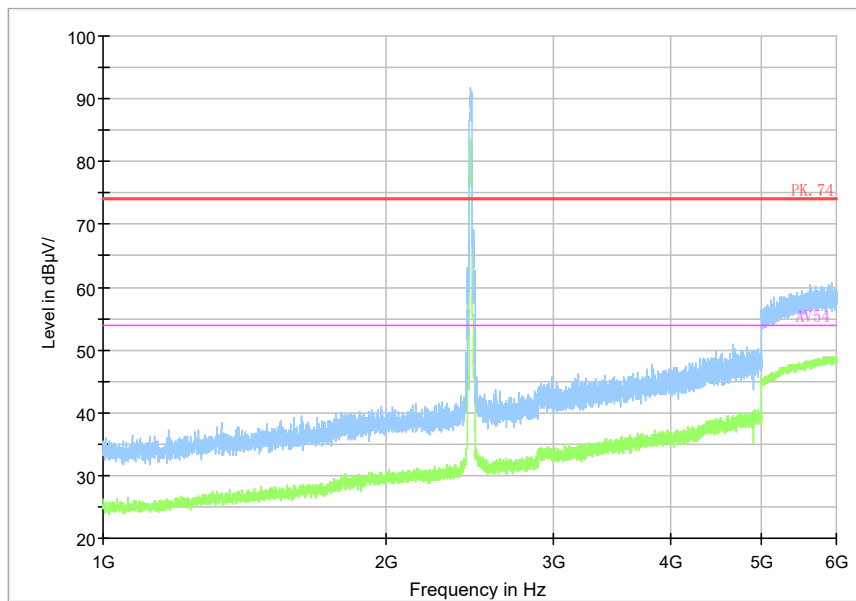


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

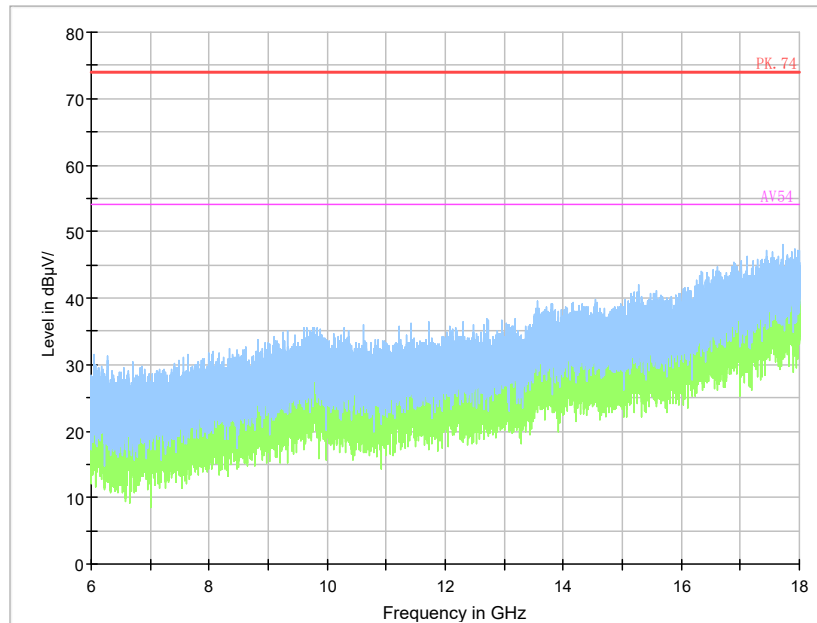


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

Full Spectrum

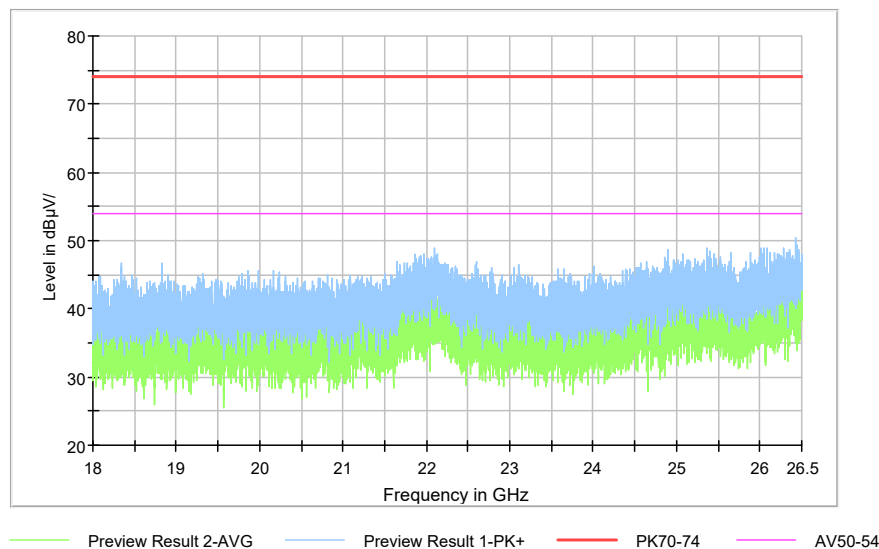


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

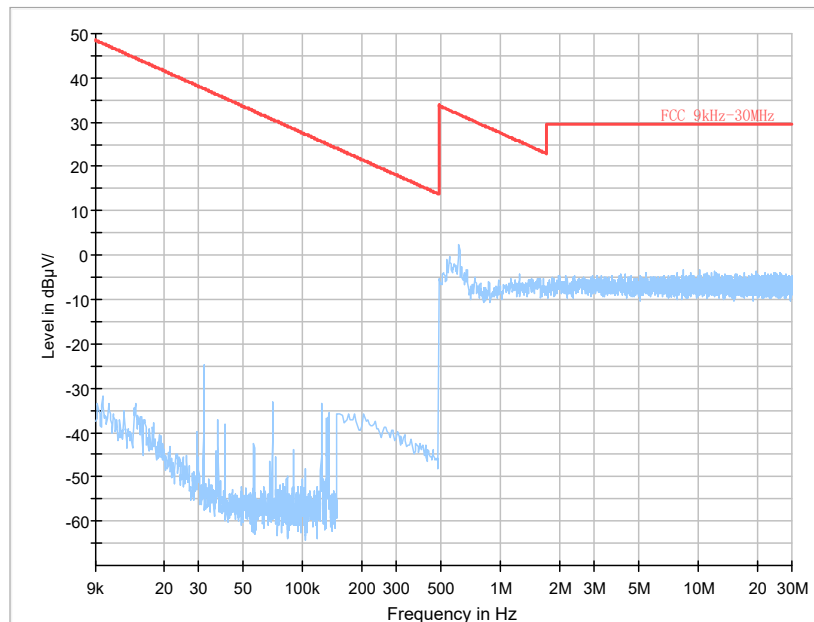
Full Spectrum



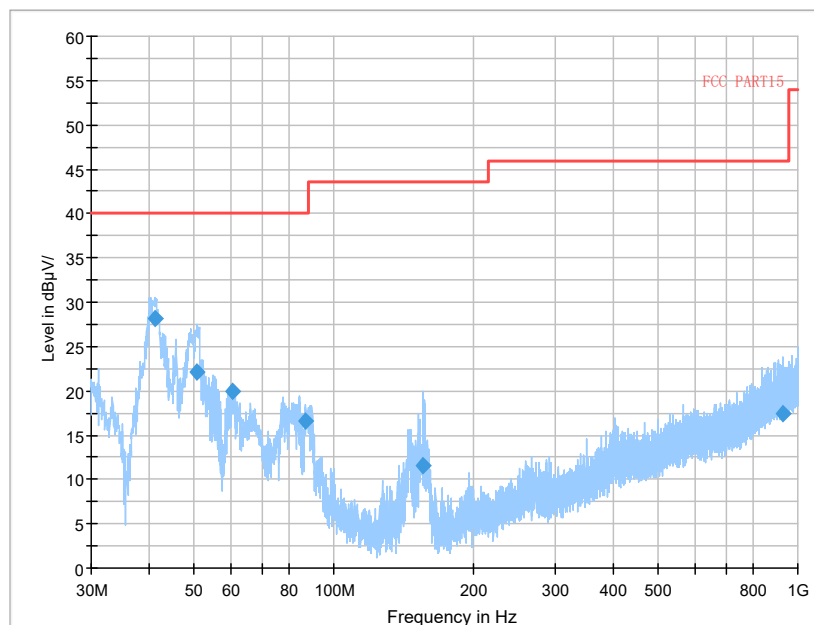
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2462  
Channel No.:11

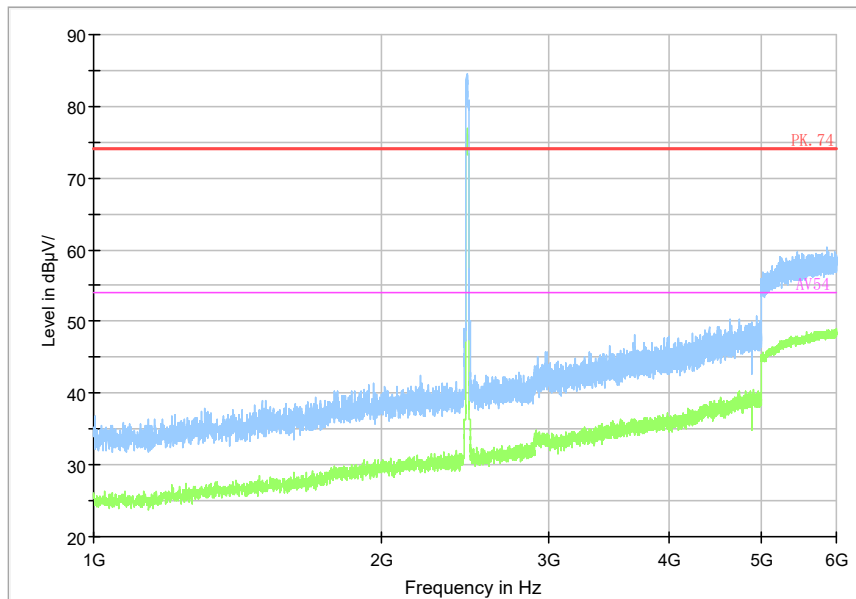


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

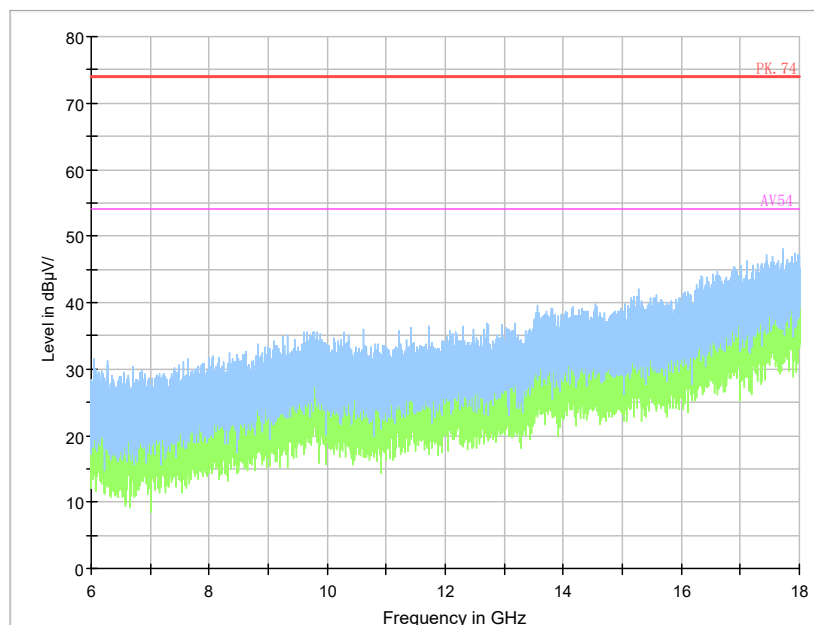


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT20)

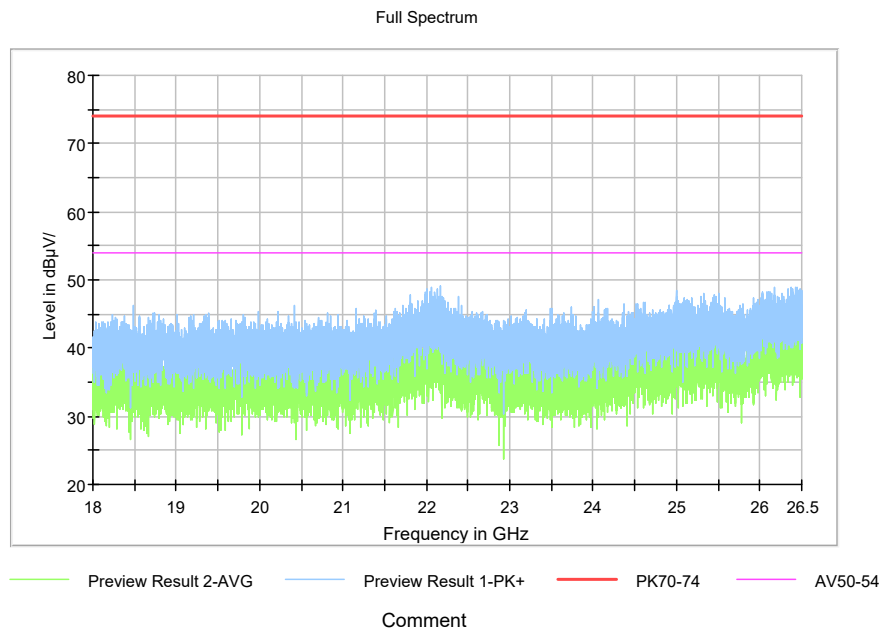
Full Spectrum



Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

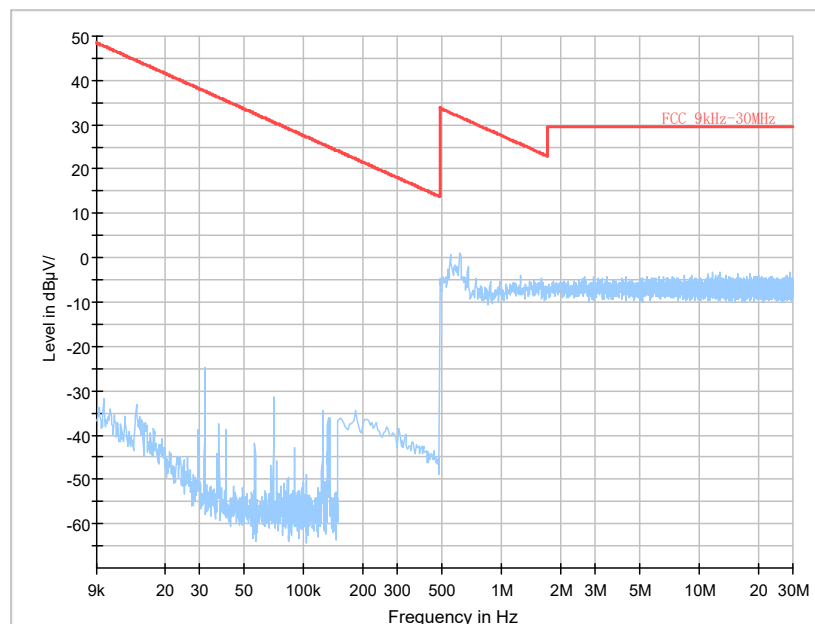


Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

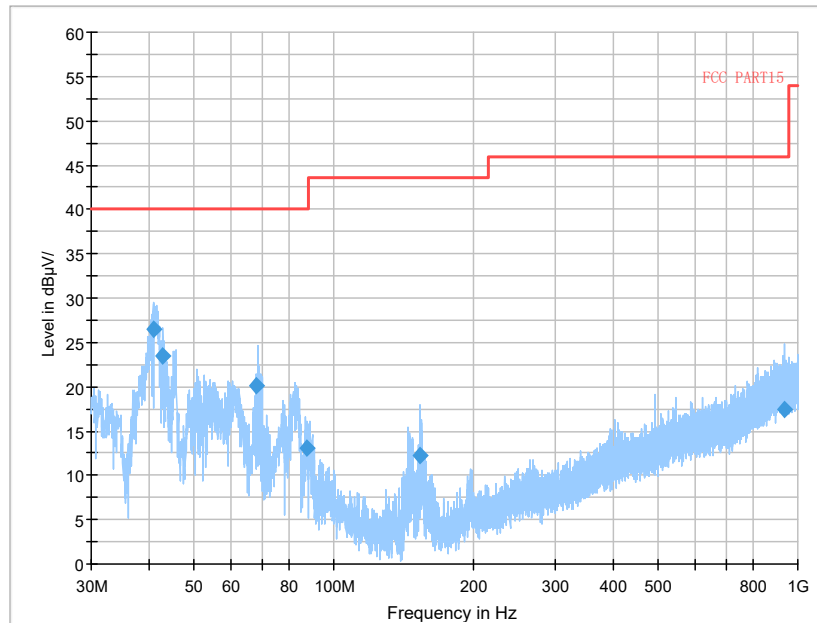


Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT20)

Carrier frequency (MHz): 2422  
Channel No.:3

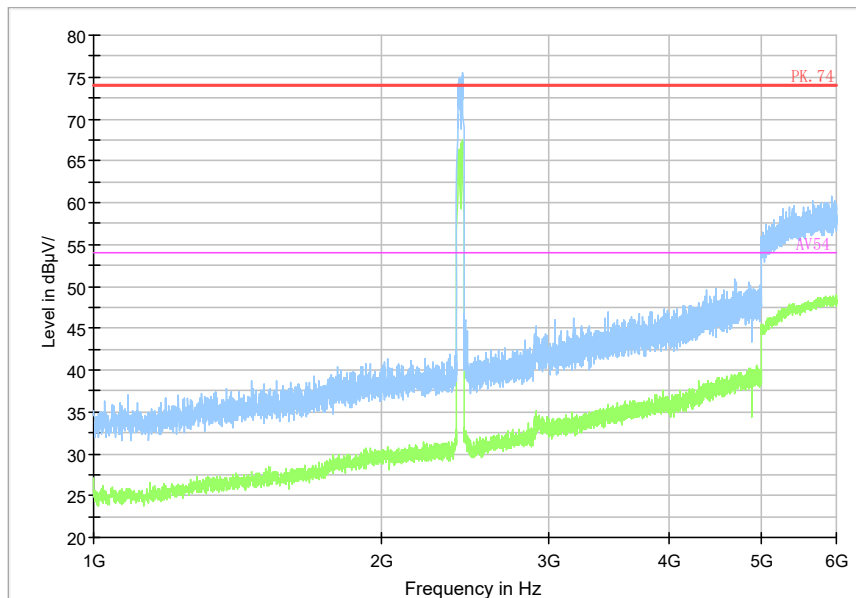


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

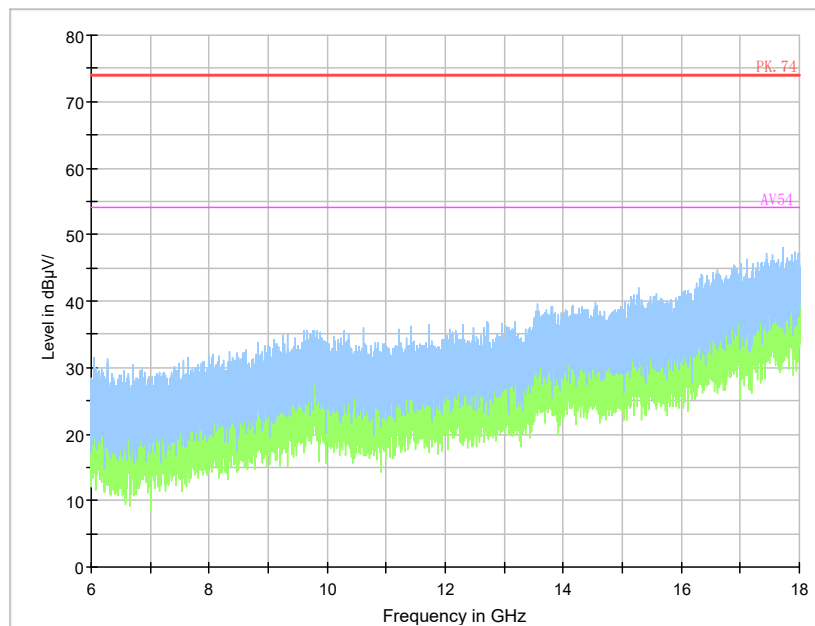


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

Full Spectrum

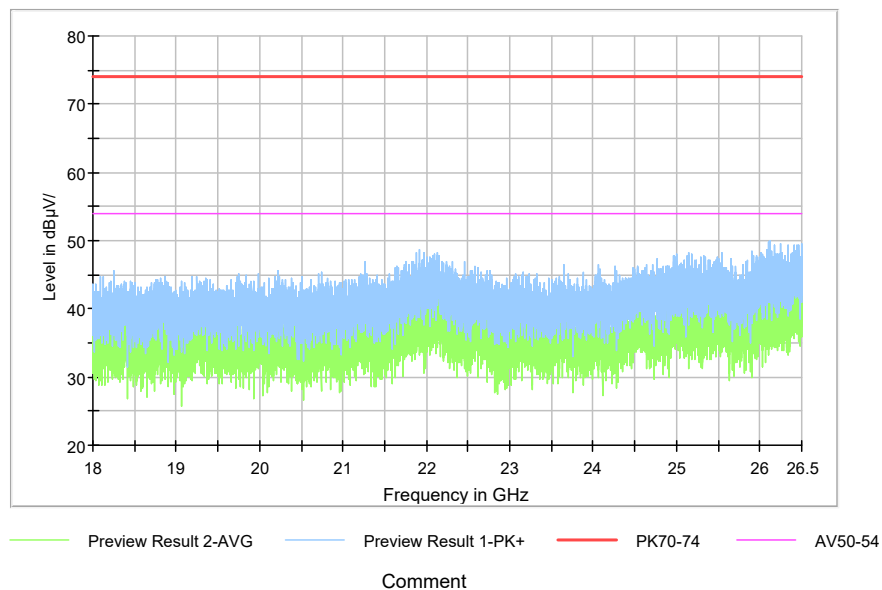


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)



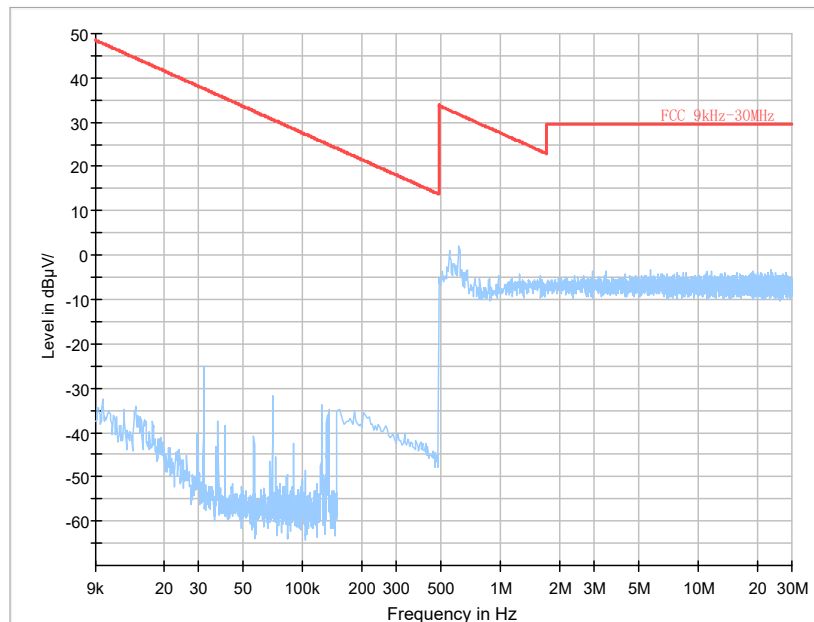
Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Full Spectrum

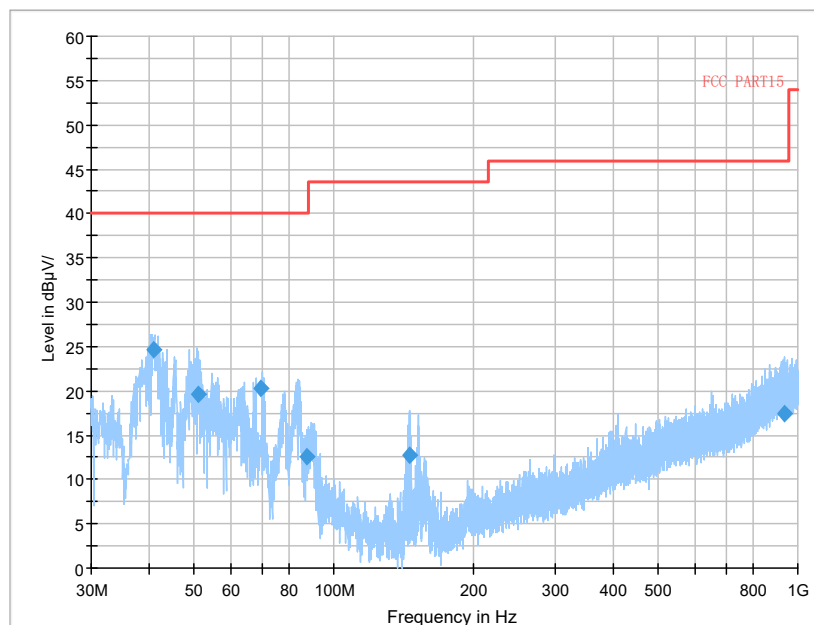


Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Carrier frequency (MHz): 2427  
Channel No.:4

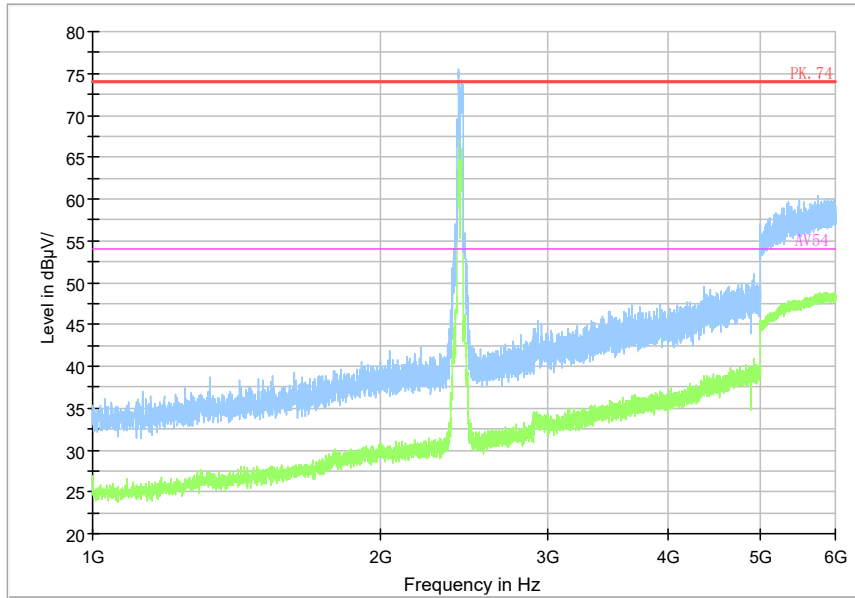


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Modulation type: 802.11 n(HT40)

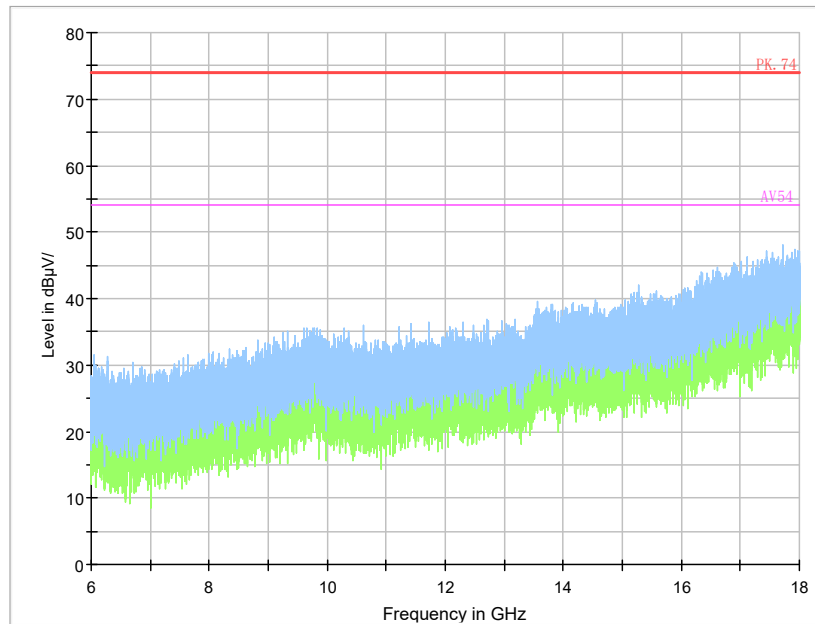


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Modulation type: 802.11 n(HT40)

Full Spectrum

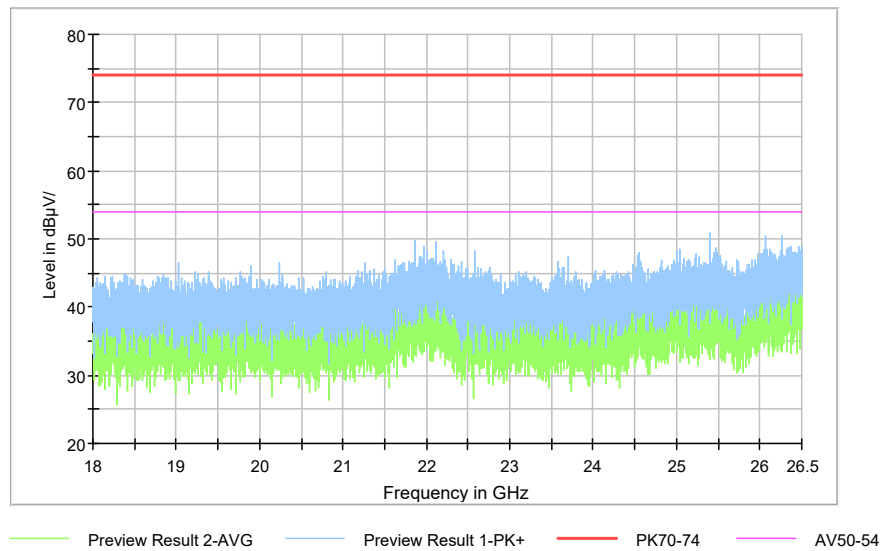


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

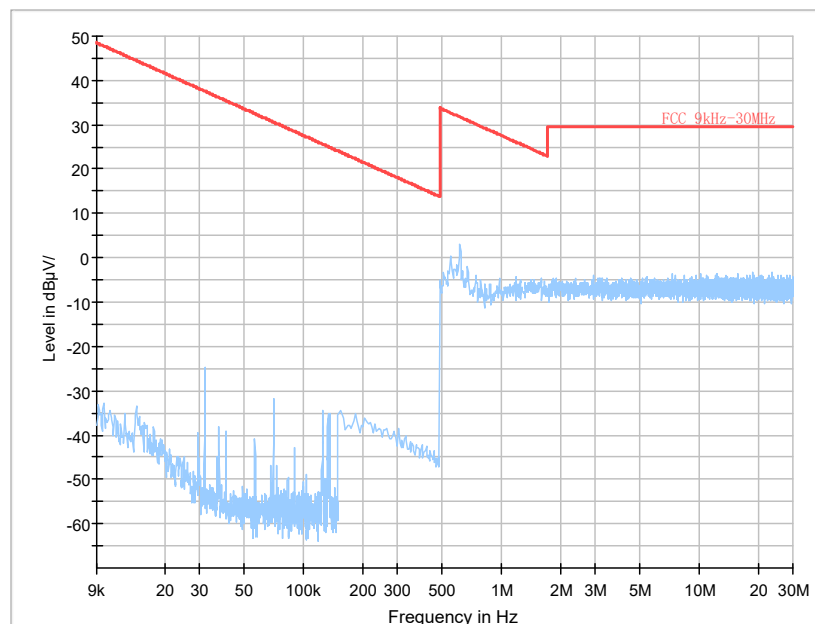
Full Spectrum



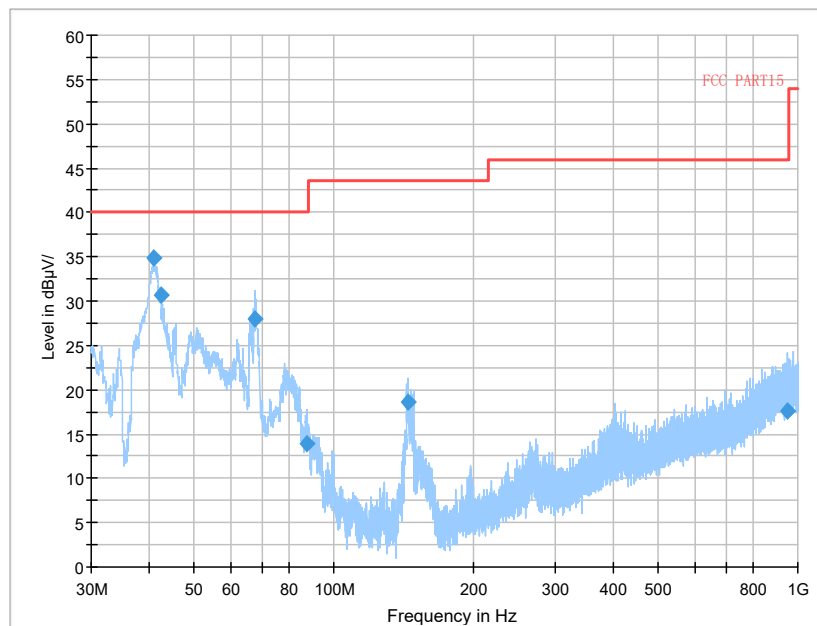
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Carrier frequency (MHz): 2437  
Channel No.:6

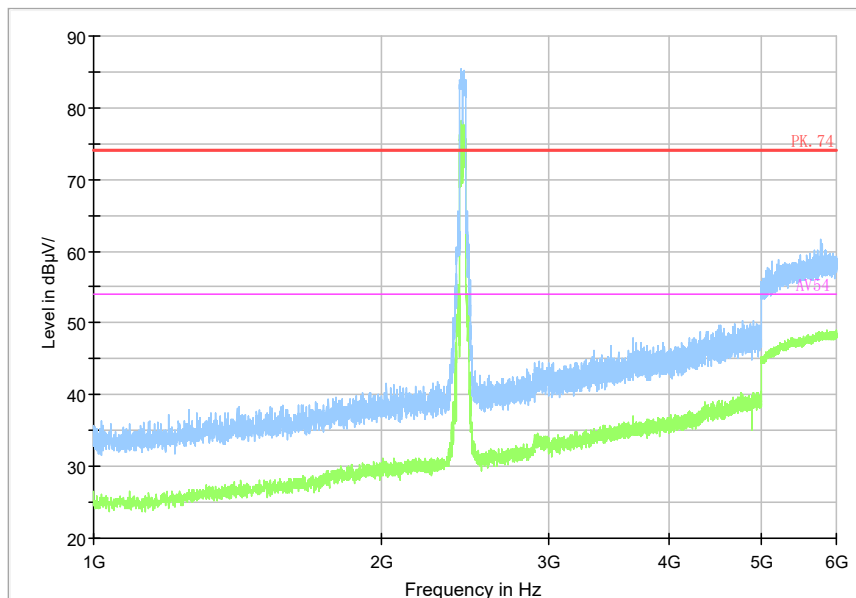


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

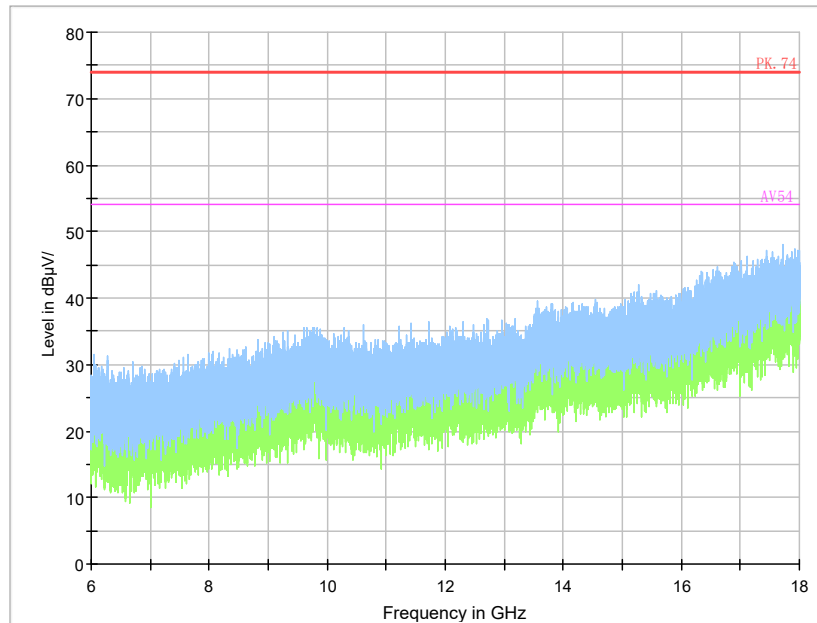


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

Full Spectrum

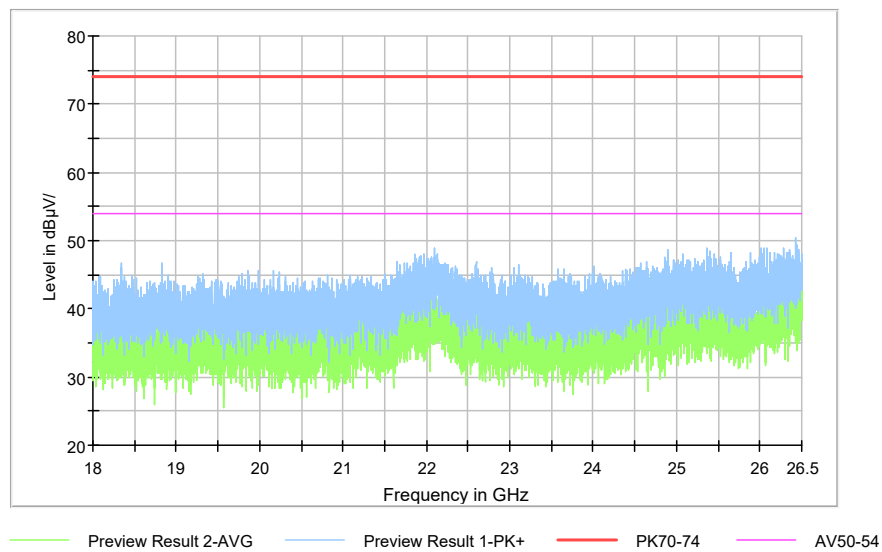


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

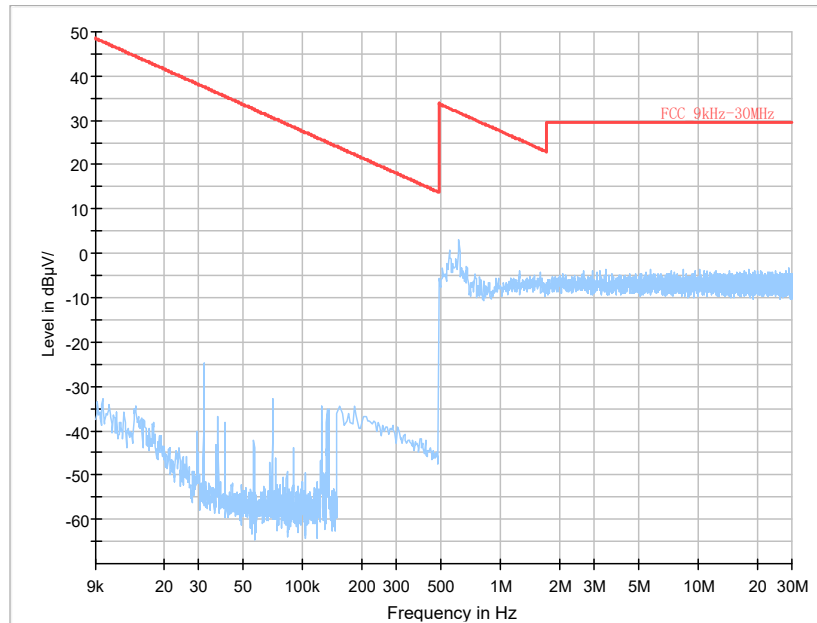
Full Spectrum



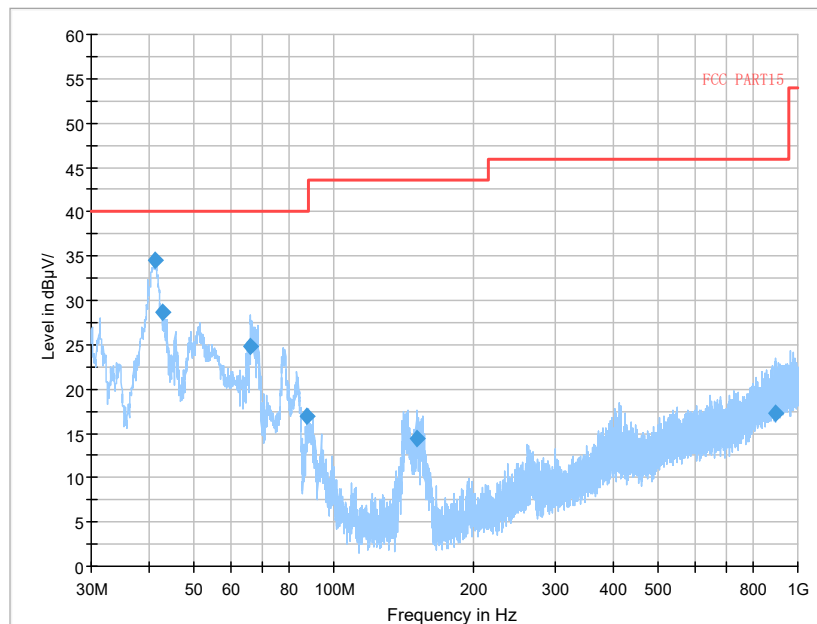
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Carrier frequency (MHz): 2447  
Channel No.:8

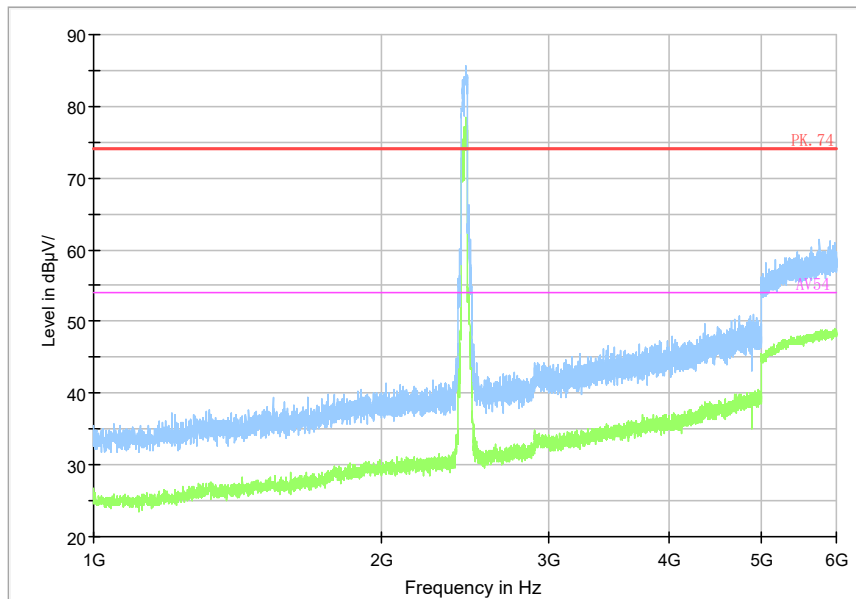


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

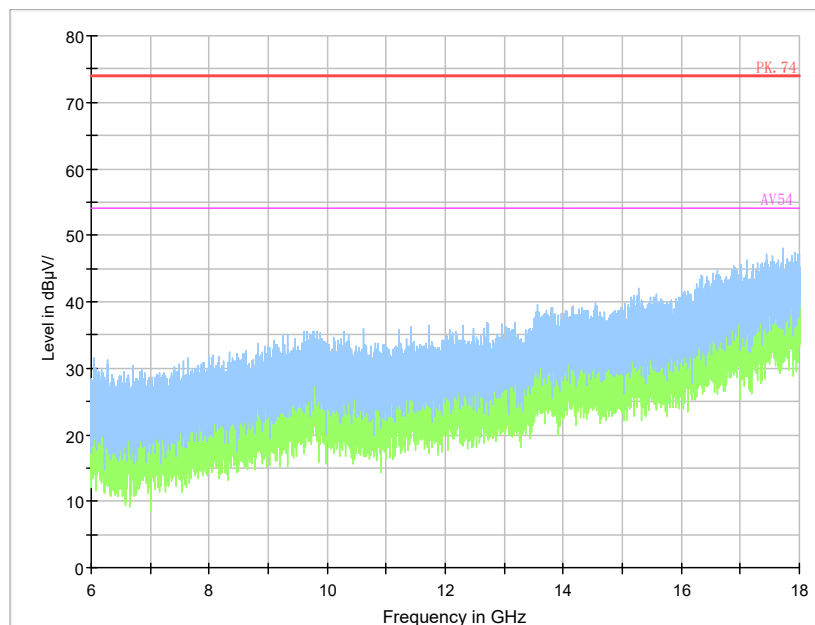


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

Full Spectrum

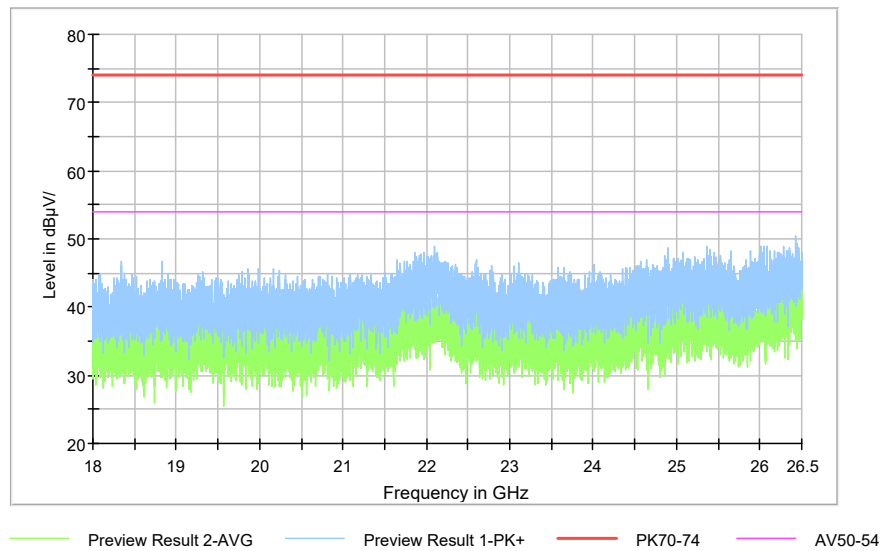


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

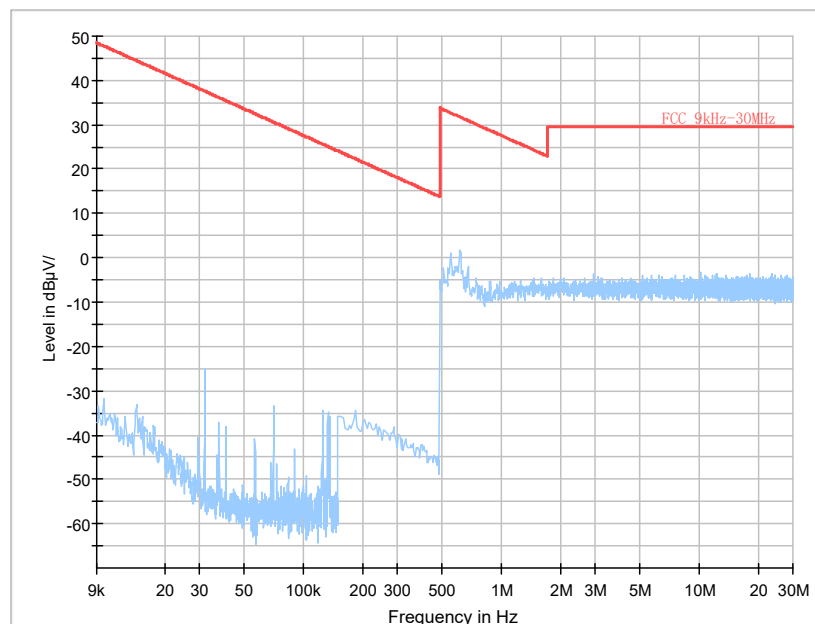
Full Spectrum



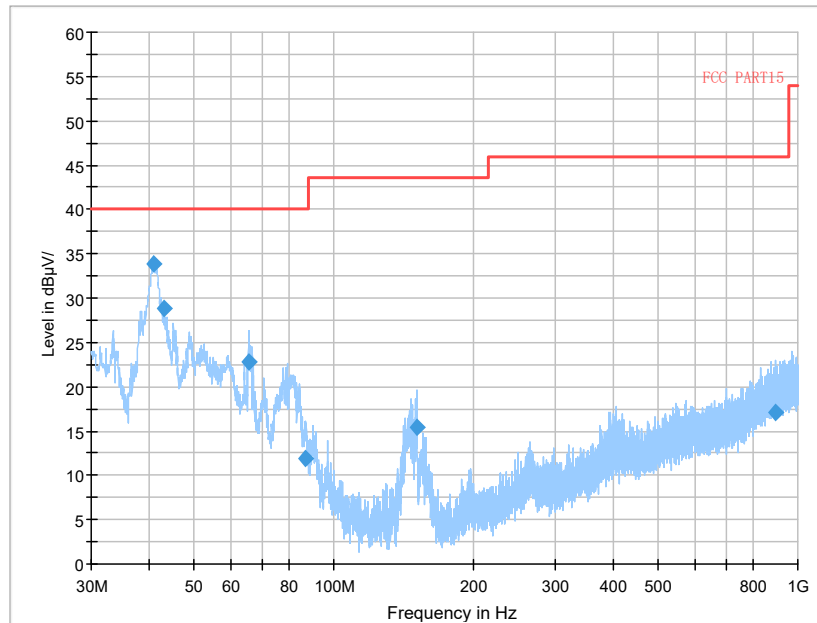
Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Carrier frequency (MHz): 2452  
Channel No.:9

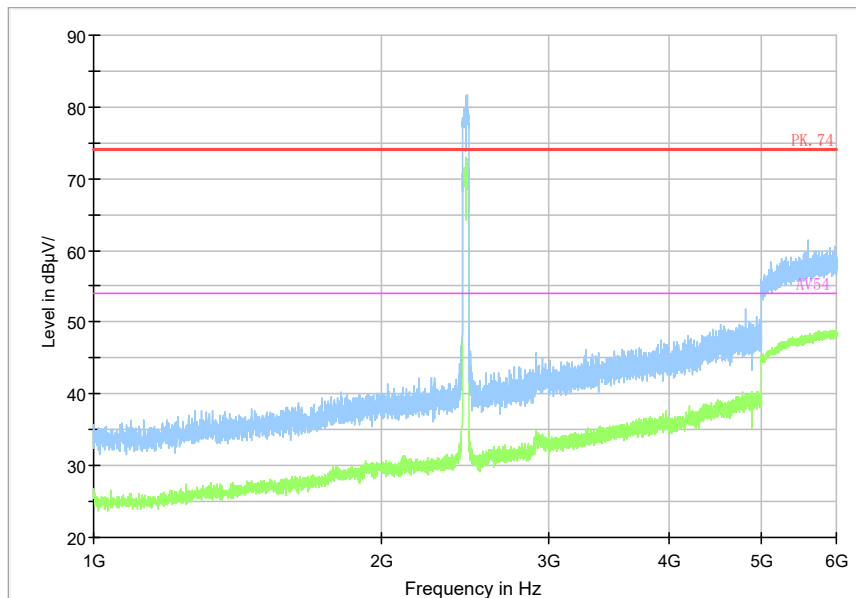


Frequency Range: 9kHz-30MHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

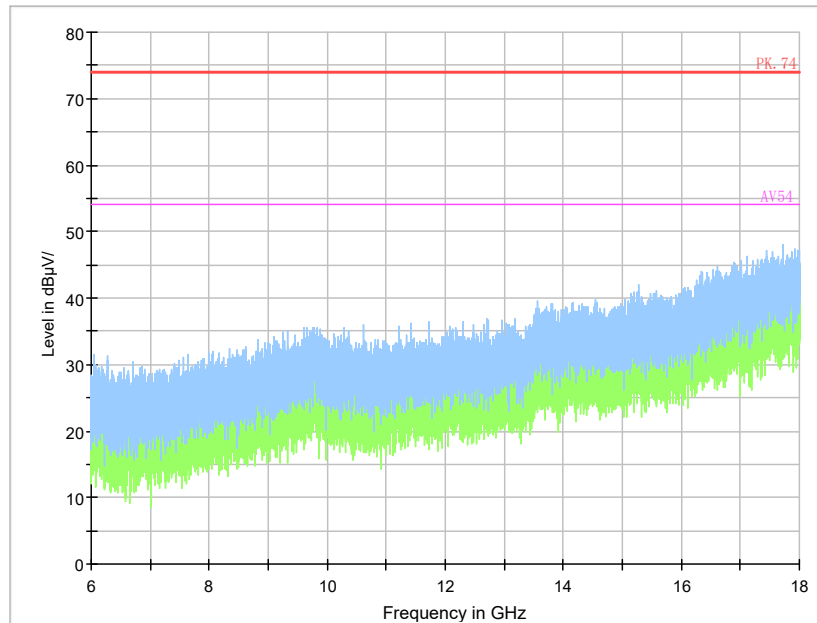


Frequency Range: 30MHz -1GHz  
Detector: QP mode  
Test Mode: 802.11 n(HT40)

Full Spectrum

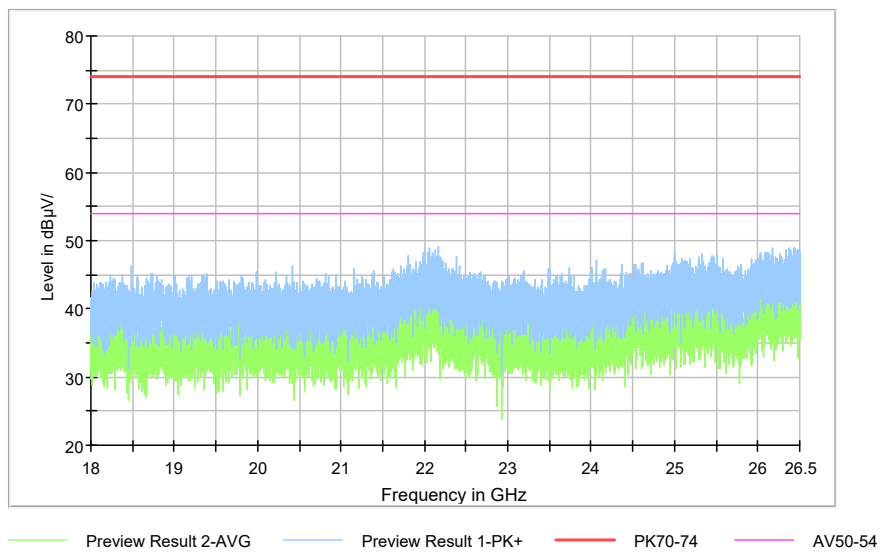


Frequency Range: 1GHz -6GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)



Frequency Range: 6GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

Full Spectrum



Comment

Frequency Range: 18GHz -25GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11 n(HT40)

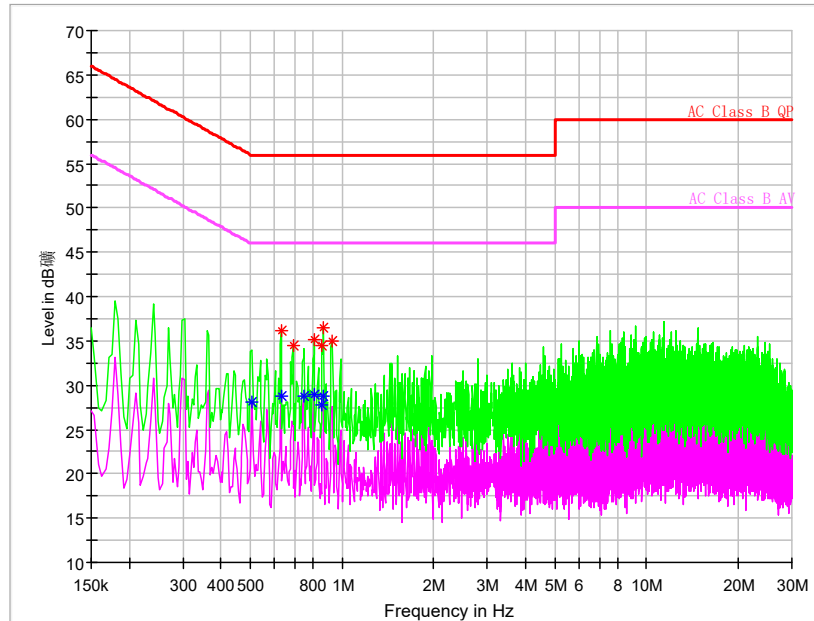
## AC Power line Conducted Emission

A "reference path loss" Corr.(dB) is established and the  $L_{\text{cable}} + \text{ATT} + \text{VDF}$  is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

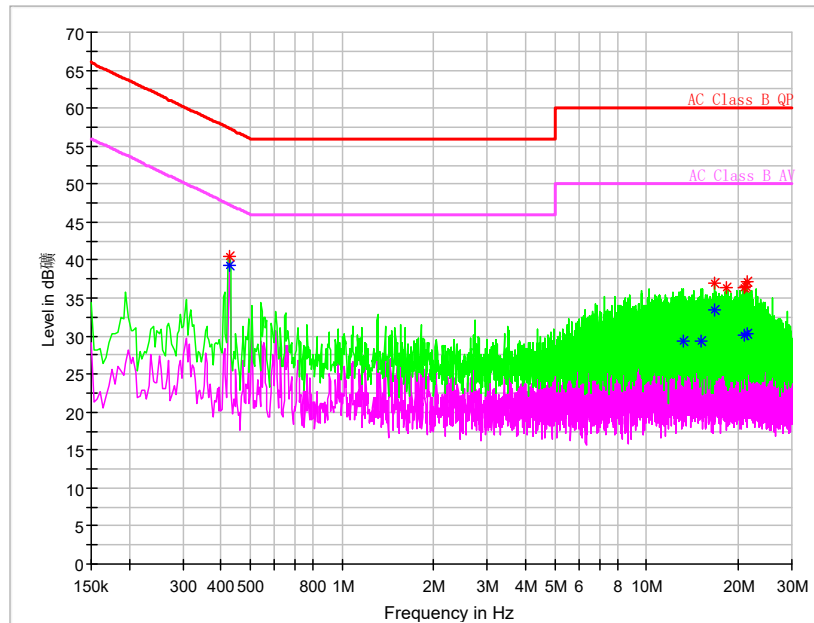
Sample calculation:  $(27.80 \text{ dB}\mu\text{V}) = (-1.9 \text{ dB}\mu\text{V}) + (29.7 \text{ dB})$ , the corresponding frequency is 0.380271MHz.



L+N Line Voltage: 120VAC

### MEASUREMENT RESULT:

| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Corr. (dB) | $P_{\text{mea}}$ QuasiPeak (dBμV) | $P_{\text{mea}}$ Average (dBμV) |
|-----------------|------------------|----------------|--------------|-------------|------|------------|-----------------------------------|---------------------------------|
| 0.508200        | ---              | 28.02          | 46.00        | 17.98       | L1   | 29.7       | ---                               | -1.68                           |
| 0.631864        | 36.23            | ---            | 56.00        | 19.77       | L1   | 29.7       | 6.53                              | ---                             |
| 0.631864        | ---              | 28.80          | 46.00        | 17.20       | L1   | 29.7       | ---                               | -0.9                            |
| 0.691564        | 34.41            | ---            | 56.00        | 21.59       | L1   | 29.7       | 4.71                              | ---                             |
| 0.747000        | ---              | 28.73          | 46.00        | 17.28       | L1   | 29.7       | ---                               | -0.97                           |
| 0.806700        | ---              | 28.99          | 46.00        | 17.01       | L1   | 29.7       | ---                               | -0.71                           |
| 0.810964        | 35.09            | ---            | 56.00        | 20.91       | N    | 29.7       | 5.39                              | ---                             |
| 0.862136        | ---              | 27.84          | 46.00        | 18.16       | L1   | 29.7       | ---                               | -1.86                           |
| 0.862136        | 34.48            | ---            | 56.00        | 21.52       | L1   | 29.7       | 4.78                              | ---                             |
| 0.870664        | ---              | 28.74          | 46.00        | 17.26       | L1   | 29.7       | ---                               | -0.96                           |
| 0.870664        | 36.50            | ---            | 56.00        | 19.50       | L1   | 29.7       | 6.8                               | ---                             |
| 0.930364        | 35.05            | ---            | 56.00        | 20.95       | N    | 29.7       | 5.35                              | ---                             |



L+N Line Voltage: 240VAC

**MEASUREMENT RESULT:**

| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Corr. (dB) | P <sub>mea</sub> QuasiPeak (dBμV) | P <sub>mea</sub> Average (dBμV) |
|-----------------|------------------|----------------|--------------|-------------|------|------------|-----------------------------------|---------------------------------|
| 0.426112        | 40.50            | ---            | 57.33        | 16.83       | L1   | 29.7       | 10.8                              | ---                             |
| 0.426112        | ---              | 39.39          | 47.33        | 7.93        | L1   | 29.7       | ---                               | 9.69                            |
| 13.205644       | ---              | 29.41          | 50.00        | 20.59       | L1   | 29.9       | ---                               | -0.49                           |
| 15.130969       | ---              | 29.36          | 50.00        | 20.64       | L1   | 29.9       | ---                               | -0.54                           |
| 16.772719       | 36.88            | ---            | 60.00        | 23.12       | L1   | 29.9       | 6.98                              | ---                             |
| 16.772719       | ---              | 33.47          | 50.00        | 16.53       | L1   | 29.9       | ---                               | 3.57                            |
| 18.336112       | 36.39            | ---            | 60.00        | 23.61       | N    | 29.9       | 6.49                              | ---                             |
| 20.940525       | 36.34            | ---            | 60.00        | 23.66       | L1   | 30.0       | 6.34                              | ---                             |
| 20.940525       | ---              | 30.10          | 50.00        | 19.90       | L1   | 30.0       | ---                               | 0.1                             |
| 21.179325       | 36.59            | ---            | 60.00        | 23.41       | L1   | 30.0       | 6.59                              | ---                             |
| 21.403200       | 37.06            | ---            | 60.00        | 22.94       | N    | 30.0       | 7.06                              | ---                             |
| 21.403200       | ---              | 30.26          | 50.00        | 19.74       | L1   | 30.0       | ---                               | 0.26                            |

---End of Test Report---