

|           |       |        |       |       |       |       |   |
|-----------|-------|--------|-------|-------|-------|-------|---|
| 11589.750 | 37.41 | -34.91 | 39.18 | 33.13 | 54.00 | 16.59 | H |
| 15913.438 | 41.69 | -32.90 | 39.08 | 35.51 | 54.00 | 12.31 | H |
| 17775.875 | 44.23 | -31.51 | 42.01 | 33.73 | 54.00 | 9.77  | H |
| 17906.500 | 44.47 | -31.31 | 41.83 | 33.96 | 54.00 | 9.53  | V |

### 802.11ac-HT40

#### Channel 151

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5432.000        | 42.75                       | -27.71          | 32.76                 | 37.70                   | 48.30          | 5.55        | H                  |
| 5459.500        | 42.81                       | -27.70          | 32.78                 | 37.73                   | 48.30          | 5.49        | H                  |
| 11510.000       | 37.92                       | -35.06          | 39.20                 | 33.78                   | 54.00          | 16.08       | V                  |
| 15896.250       | 41.65                       | -32.92          | 39.08                 | 35.50                   | 54.00          | 12.35       | V                  |
| 17853.562       | 44.89                       | -31.45          | 41.90                 | 34.43                   | 54.00          | 9.11        | V                  |
| 17953.250       | 44.62                       | -31.19          | 41.76                 | 34.05                   | 54.00          | 9.38        | H                  |

#### Channel 159

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5415.000        | 42.84                       | -27.67          | 32.75                 | 37.75                   | 48.30          | 5.46        | H                  |
| 5441.500        | 42.82                       | -27.73          | 32.77                 | 37.79                   | 48.30          | 5.48        | H                  |
| 11589.750       | 37.83                       | -34.91          | 39.18                 | 33.56                   | 54.00          | 16.17       | H                  |
| 15788.312       | 41.11                       | -33.06          | 39.06                 | 35.11                   | 54.00          | 12.89       | V                  |
| 17795.125       | 44.58                       | -31.54          | 41.98                 | 34.13                   | 54.00          | 9.42        | H                  |
| 17916.125       | 44.48                       | -31.29          | 41.82                 | 33.95                   | 54.00          | 9.53        | V                  |

### 802.11ax-HT40

#### Channel 151

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5432.000        | 42.75                       | -27.71          | 32.76                 | 37.70                   | 48.30          | 5.55        | H                  |
| 5459.500        | 42.81                       | -27.70          | 32.78                 | 37.73                   | 48.30          | 5.49        | H                  |
| 11510.000       | 36.41                       | -35.06          | 39.20                 | 32.27                   | 54.00          | 17.59       | V                  |
| 15894.875       | 40.97                       | -32.92          | 39.08                 | 34.81                   | 54.00          | 13.03       | H                  |
| 17848.063       | 44.06                       | -31.46          | 41.91                 | 33.61                   | 54.00          | 9.94        | H                  |
| 17900.313       | 43.98                       | -31.33          | 41.84                 | 33.47                   | 54.00          | 10.02       | V                  |

## Channel 159

| Frequency<br>(MHz) | Measurement<br>Result<br>(dBuV/m) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Receiver<br>Reading<br>(dBuV) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Pol.<br>(H/V) |
|--------------------|-----------------------------------|-----------------------|-----------------------------|-------------------------------|-------------------|----------------|--------------------------|
| 5407.500           | 42.88                             | -27.65                | 32.75                       | 37.78                         | 48.30             | 5.42           | H                        |
| 5424.500           | 42.84                             | -27.69                | 32.76                       | 37.77                         | 48.30             | 5.46           | H                        |
| 11589.750          | 37.49                             | -34.91                | 39.18                       | 33.22                         | 54.00             | 16.51          | V                        |
| 15829.563          | 40.56                             | -33.01                | 39.07                       | 34.50                         | 54.00             | 13.44          | V                        |
| 17819.875          | 43.65                             | -31.53                | 41.95                       | 33.23                         | 54.00             | 10.35          | H                        |
| 17940.875          | 43.80                             | -31.22                | 41.78                       | 33.25                         | 54.00             | 10.20          | V                        |

### 802.11ac-HT80

Channel 155

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5424.500        | 42.29                       | -27.69          | 32.76                 | 37.23                   | 48.30          | 6.01        | V                  |
| 5435.500        | 42.47                       | -27.72          | 32.76                 | 37.42                   | 48.30          | 5.83        | V                  |
| 11549.875       | 36.81                       | -34.98          | 39.19                 | 32.60                   | 54.00          | 17.20       | H                  |
| 15923.750       | 41.56                       | -32.89          | 39.08                 | 35.36                   | 54.00          | 12.44       | H                  |
| 17724.313       | 44.45                       | -31.43          | 42.08                 | 33.79                   | 54.00          | 9.55        | H                  |
| 17864.563       | 44.59                       | -31.42          | 41.89                 | 34.12                   | 54.00          | 9.41        | H                  |

### 802.11ax-HT80

Channel 155

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5420.500        | 42.93                       | -27.68          | 32.75                 | 37.86                   | 48.30          | 5.37        | V                  |
| 5425.500        | 42.25                       | -27.69          | 32.76                 | 37.19                   | 48.30          | 6.05        | V                  |
| 11549.875       | 37.78                       | -34.98          | 39.19                 | 33.57                   | 54.00          | 16.22       | H                  |
| 15932.000       | 41.32                       | -32.88          | 39.09                 | 35.11                   | 54.00          | 12.68       | H                  |
| 17836.375       | 44.27                       | -31.49          | 41.93                 | 33.83                   | 54.00          | 9.73        | V                  |
| 17962.188       | 44.70                       | -31.17          | 41.75                 | 34.12                   | 54.00          | 9.30        | V                  |

### Peak Results:

#### 802.11a

Channel 149

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5651.136        | 56.14                       | -27.57          | 33.02                 | 50.69                   | 68.30          | 12.16       | H                  |
| 5653.838        | 56.48                       | -27.57          | 33.02                 | 51.02                   | 68.30          | 11.82       | H                  |
| 11490.062       | 45.78                       | -35.09          | 39.20                 | 41.67                   | 74.00          | 28.22       | H                  |
| 17235.156       | 52.14                       | -31.89          | 41.77                 | 42.26                   | 68.30          | 16.16       | H                  |
| 17737.375       | 55.31                       | -31.45          | 42.07                 | 44.70                   | 74.00          | 18.69       | V                  |
| 17821.938       | 55.44                       | -31.53          | 41.95                 | 45.02                   | 74.00          | 18.56       | V                  |

Channel 157

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|

|           |       |        |       |       |       |       |   |
|-----------|-------|--------|-------|-------|-------|-------|---|
| 5751.500  | 60.12 | -27.44 | 33.16 | 54.40 | 68.30 | 8.18  | V |
| 5810.500  | 60.83 | -27.50 | 33.24 | 55.09 | 68.30 | 7.47  | V |
| 11570.156 | 47.21 | -34.94 | 39.19 | 42.97 | 74.00 | 26.79 | V |
| 17355.125 | 52.79 | -31.77 | 42.06 | 42.50 | 68.30 | 15.51 | H |
| 17809.906 | 55.28 | -31.56 | 41.96 | 44.87 | 74.00 | 18.72 | V |
| 17951.188 | 55.20 | -31.20 | 41.77 | 44.63 | 74.00 | 18.80 | V |

#### Channel 165

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5920.199        | 57.53                       | -27.22          | 33.39                 | 51.35                   | 68.30          | 10.77       | H                  |
| 5924.008        | 57.44                       | -27.21          | 33.40                 | 51.25                   | 68.30          | 10.86       | H                  |
| 11649.906       | 47.65                       | -34.73          | 39.17                 | 43.21                   | 74.00          | 26.35       | H                  |
| 17475.094       | 52.49                       | -31.54          | 42.34                 | 41.69                   | 68.30          | 15.81       | V                  |
| 17755.250       | 55.01                       | -31.48          | 42.04                 | 44.44                   | 74.00          | 18.99       | H                  |
| 17826.750       | 55.41                       | -31.52          | 41.94                 | 44.99                   | 74.00          | 18.59       | H                  |

#### 802.11n-HT20

#### Channel 149

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.374        | 56.34                       | -27.57          | 33.02                 | 50.89                   | 68.30          | 11.96       | H                  |
| 5652.746        | 56.86                       | -27.57          | 33.02                 | 51.41                   | 68.30          | 11.44       | H                  |
| 11490.062       | 46.38                       | -35.09          | 39.20                 | 42.27                   | 74.00          | 27.62       | H                  |
| 17235.156       | 53.54                       | -31.89          | 41.77                 | 43.66                   | 68.30          | 14.76       | H                  |
| 17819.531       | 55.44                       | -31.54          | 41.95                 | 45.02                   | 74.00          | 18.57       | H                  |
| 17961.500       | 56.05                       | -31.17          | 41.75                 | 45.47                   | 74.00          | 17.95       | H                  |

#### Channel 157

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5747.500        | 57.55                       | -27.44          | 33.15                 | 51.83                   | 68.30          | 10.75       | V                  |
| 5818.000        | 57.64                       | -27.52          | 33.25                 | 51.90                   | 68.30          | 10.66       | V                  |
| 11570.156       | 46.52                       | -34.94          | 39.19                 | 42.28                   | 74.00          | 27.48       | V                  |
| 17355.125       | 53.17                       | -31.77          | 42.06                 | 42.88                   | 68.30          | 15.13       | V                  |
| 17807.156       | 55.62                       | -31.56          | 41.97                 | 45.21                   | 74.00          | 18.38       | H                  |
| 17959.781       | 55.24                       | -31.18          | 41.76                 | 44.66                   | 74.00          | 18.76       | H                  |

#### Channel 165

| Frequency (MHz) | Measurement Result | Cable Loss | Antenna Factor | Receiver Reading | Limit (dBuV/m) | Margin (dB) | Antenna Pol. |
|-----------------|--------------------|------------|----------------|------------------|----------------|-------------|--------------|
|-----------------|--------------------|------------|----------------|------------------|----------------|-------------|--------------|

|           | (dBuV/m) | (dB)   | (dB/m) | (dBuV) |       |       | (H/V) |
|-----------|----------|--------|--------|--------|-------|-------|-------|
| 5920.414  | 57.50    | -27.21 | 33.39  | 51.32  | 68.30 | 10.80 | H     |
| 5923.102  | 57.13    | -27.21 | 33.40  | 50.95  | 68.30 | 11.17 | H     |
| 11649.906 | 46.45    | -34.73 | 39.17  | 42.01  | 74.00 | 27.55 | H     |
| 17475.094 | 53.76    | -31.54 | 42.34  | 42.96  | 68.30 | 14.54 | H     |
| 17721.906 | 55.54    | -31.43 | 42.09  | 44.88  | 74.00 | 18.46 | V     |
| 17812.656 | 54.97    | -31.55 | 41.96  | 44.56  | 74.00 | 19.04 | V     |

### 802.11ac-HT20

#### Channel 149

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.216        | 55.52                       | -27.57          | 33.02                 | 50.07                   | 68.30          | 12.78       | H                  |
| 5650.704        | 55.78                       | -27.57          | 33.02                 | 50.33                   | 68.30          | 12.52       | H                  |
| 11490.062       | 45.69                       | -35.09          | 39.20                 | 41.58                   | 74.00          | 28.31       | H                  |
| 17235.156       | 52.07                       | -31.89          | 41.77                 | 42.19                   | 68.30          | 16.23       | H                  |
| 17725.344       | 54.67                       | -31.43          | 42.08                 | 44.02                   | 74.00          | 19.33       | V                  |
| 17876.250       | 55.65                       | -31.39          | 41.87                 | 45.17                   | 74.00          | 18.35       | V                  |

#### Channel 157

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5740.500        | 57.18                       | -27.43          | 33.14                 | 51.47                   | 68.30          | 11.12       | V                  |
| 5825.000        | 56.60                       | -27.53          | 33.26                 | 50.87                   | 68.30          | 11.70       | H                  |
| 11570.156       | 46.13                       | -34.94          | 39.19                 | 41.89                   | 74.00          | 27.87       | H                  |
| 17355.125       | 52.57                       | -31.77          | 42.06                 | 42.28                   | 68.30          | 15.73       | V                  |
| 17793.406       | 54.90                       | -31.54          | 41.99                 | 44.45                   | 74.00          | 19.10       | H                  |
| 17950.844       | 56.03                       | -31.20          | 41.77                 | 45.47                   | 74.00          | 17.96       | V                  |

#### Channel 165

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5924.396        | 57.37                       | -27.21          | 33.40                 | 51.18                   | 68.30          | 10.93       | H                  |
| 5934.655        | 56.41                       | -27.19          | 33.41                 | 50.18                   | 68.30          | 11.89       | H                  |
| 11649.906       | 46.39                       | -34.73          | 39.17                 | 41.95                   | 74.00          | 27.61       | H                  |
| 17475.094       | 53.12                       | -31.54          | 42.34                 | 42.32                   | 68.30          | 15.18       | V                  |
| 17813.344       | 55.11                       | -31.55          | 41.96                 | 44.70                   | 74.00          | 18.89       | V                  |
| 17897.906       | 55.30                       | -31.33          | 41.84                 | 44.79                   | 74.00          | 18.70       | V                  |

### 802.11ax-HT20

#### Channel 149

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.173        | 55.84                       | -27.57          | 33.02                 | 50.39                   | 68.30          | 12.46       | H                  |
| 5650.359        | 56.21                       | -27.57          | 33.02                 | 50.76                   | 68.30          | 12.09       | H                  |
| 11490.063       | 45.26                       | -35.09          | 39.20                 | 41.15                   | 74.00          | 28.74       | H                  |
| 17235.156       | 52.13                       | -31.89          | 41.77                 | 42.25                   | 68.30          | 16.17       | V                  |
| 17806.469       | 55.39                       | -31.56          | 41.97                 | 44.98                   | 74.00          | 18.61       | H                  |
| 17956.000       | 54.73                       | -31.19          | 41.76                 | 44.16                   | 74.00          | 19.27       | H                  |

#### Channel 157

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5747.000        | 57.17                       | -27.44          | 33.15                 | 51.46                   | 68.30          | 11.13       | V                  |
| 5818.500        | 57.23                       | -27.52          | 33.25                 | 51.50                   | 68.30          | 11.07       | V                  |
| 11570.156       | 47.59                       | -34.94          | 39.19                 | 43.34                   | 74.00          | 26.41       | V                  |
| 17355.125       | 51.44                       | -31.77          | 42.06                 | 41.14                   | 68.30          | 16.87       | H                  |
| 17744.938       | 55.07                       | -31.46          | 42.05                 | 44.48                   | 74.00          | 18.93       | H                  |
| 17866.625       | 56.15                       | -31.41          | 41.88                 | 45.68                   | 74.00          | 17.85       | V                  |

#### Channel 165

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5924.396        | 57.40                       | -27.20          | 33.40                 | 51.18                   | 68.30          | 10.90       | H                  |
| 5934.655        | 56.40                       | -27.20          | 33.40                 | 50.18                   | 68.30          | 11.90       | H                  |
| 11649.906       | 46.63                       | -34.73          | 39.17                 | 42.19                   | 74.00          | 27.37       | H                  |
| 17475.094       | 52.76                       | -31.54          | 42.34                 | 41.96                   | 68.30          | 15.54       | H                  |
| 17722.250       | 55.22                       | -31.43          | 42.09                 | 44.56                   | 74.00          | 18.78       | V                  |
| 17963.219       | 55.52                       | -31.17          | 41.75                 | 44.94                   | 74.00          | 18.48       | V                  |

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#### Channel 151

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.532        | 56.70                       | -27.57          | 33.02                 | 51.25                   | 68.30          | 11.60       | H                  |
| 5652.113        | 58.10                       | -27.57          | 33.02                 | 52.65                   | 68.30          | 10.20       | H                  |
| 11510.000       | 46.43                       | -35.06          | 39.20                 | 42.29                   | 74.00          | 27.57       | V                  |
| 17265.062       | 51.12                       | -31.89          | 41.84                 | 41.18                   | 74.00          | 22.88       | V                  |
| 17758.688       | 55.71                       | -31.48          | 42.04                 | 45.16                   | 68.30          | 12.59       | V                  |
| 17891.719       | 55.24                       | -31.35          | 41.85                 | 44.75                   | 74.00          | 18.75       | V                  |

#### Channel 159

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5924.540        | 56.77                       | -27.21          | 33.40                 | 50.58                   | 68.30          | 11.53       | H                  |
| 5924.741        | 57.25                       | -27.21          | 33.40                 | 51.06                   | 68.30          | 11.05       | H                  |
| 11590.094       | 47.06                       | -34.91          | 39.18                 | 42.79                   | 74.00          | 26.93       | V                  |
| 17385.032       | 51.83                       | -31.71          | 42.13                 | 41.41                   | 68.30          | 16.47       | V                  |
| 17802.344       | 54.78                       | -31.55          | 41.97                 | 44.36                   | 74.00          | 19.22       | V                  |
| 17854.938       | 55.35                       | -31.44          | 41.90                 | 44.89                   | 74.00          | 18.65       | V                  |

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#### Channel 151

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.129        | 55.99                       | -27.57          | 33.02                 | 50.55                   | 68.30          | 12.30       | H                  |
| 5650.517        | 56.38                       | -27.57          | 33.02                 | 50.93                   | 68.30          | 11.93       | H                  |
| 11510.000       | 46.99                       | -35.06          | 39.20                 | 42.85                   | 74.00          | 27.01       | V                  |
| 17265.062       | 51.58                       | -31.89          | 41.84                 | 41.63                   | 68.30          | 16.72       | H                  |
| 17752.500       | 54.71                       | -31.47          | 42.04                 | 44.14                   | 74.00          | 19.29       | V                  |
| 17895.156       | 55.65                       | -31.34          | 41.85                 | 45.15                   | 74.00          | 18.35       | V                  |

#### Channel 159

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5924.137        | 56.68                       | -27.21          | 33.40                 | 50.49                   | 68.30          | 11.62       | H                  |
| 5924.540        | 56.67                       | -27.21          | 33.40                 | 50.48                   | 68.30          | 11.63       | H                  |
| 11590.094       | 46.98                       | -34.91          | 39.18                 | 42.70                   | 74.00          | 27.02       | V                  |
| 17385.031       | 51.58                       | -31.71          | 42.13                 | 41.16                   | 68.30          | 16.72       | H                  |

|           |       |        |       |       |       |       |   |
|-----------|-------|--------|-------|-------|-------|-------|---|
| 17815.062 | 54.71 | -31.55 | 41.96 | 44.30 | 74.00 | 19.29 | V |
| 17945.688 | 55.05 | -31.21 | 41.78 | 44.49 | 74.00 | 18.95 | H |

### 802.11ax-HT40

#### Channel 151

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.230        | 55.93                       | -27.57          | 33.02                 | 50.48                   | 68.30          | 12.37       | H                  |
| 5650.704        | 55.82                       | -27.57          | 33.02                 | 50.38                   | 68.30          | 12.48       | H                  |
| 11510.000       | 46.68                       | -35.06          | 39.20                 | 42.53                   | 74.00          | 27.33       | V                  |
| 17265.063       | 52.30                       | -31.89          | 41.84                 | 42.35                   | 68.30          | 16.01       | V                  |
| 17775.531       | 55.68                       | -31.51          | 42.01                 | 45.18                   | 74.00          | 18.32       | V                  |
| 17837.750       | 55.28                       | -31.49          | 41.92                 | 44.84                   | 74.00          | 18.72       | H                  |

#### Channel 159

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5923.634        | 57.07                       | -27.21          | 33.40                 | 50.88                   | 68.30          | 11.23       | H                  |
| 5924.267        | 57.34                       | -27.21          | 33.40                 | 51.15                   | 68.30          | 10.96       | H                  |
| 11590.094       | 47.38                       | -34.91          | 39.18                 | 43.11                   | 74.00          | 26.62       | H                  |
| 15968.438       | 52.20                       | -32.84          | 39.09                 | 45.95                   | 68.30          | 16.10       | H                  |
| 17806.813       | 55.17                       | -31.56          | 41.97                 | 44.76                   | 74.00          | 18.83       | H                  |
| 17869.375       | 55.14                       | -31.41          | 41.88                 | 44.67                   | 74.00          | 18.86       | H                  |

### 802.11ac-HT80

Channel 155

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.875        | 56.51                       | -27.57          | 33.02                 | 51.06                   | 68.85          | 12.34       | V                  |
| 5650.978        | 56.02                       | -27.57          | 33.02                 | 50.58                   | 68.92          | 12.90       | V                  |
| 11549.875       | 45.74                       | -34.98          | 39.19                 | 41.54                   | 68.30          | 22.56       | H                  |
| 17324.875       | 52.06                       | -31.82          | 41.98                 | 41.90                   | 68.30          | 16.24       | H                  |
| 17866.969       | 55.34                       | -31.41          | 41.88                 | 44.87                   | 68.30          | 12.96       | V                  |
| 17966.313       | 55.34                       | -31.16          | 41.75                 | 44.76                   | 68.30          | 12.96       | V                  |

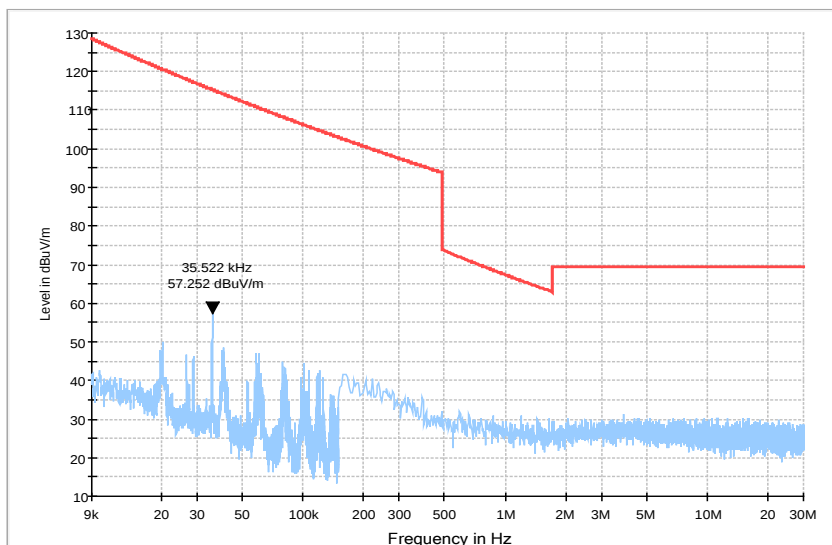
### 802.11ax-HT80

Channel 155

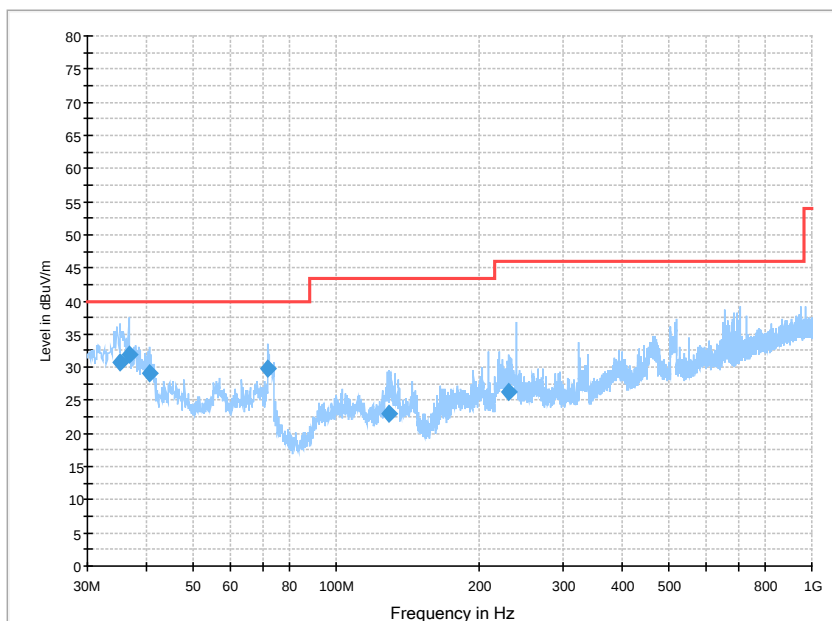
| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 5650.589        | 56.16                       | -27.57          | 33.02                 | 50.71                   | 68.64          | 12.48       | H                  |
| 5651.394        | 56.84                       | -27.57          | 33.02                 | 51.39                   | 69.23          | 12.40       | H                  |
| 11549.875       | 46.59                       | -34.98          | 39.19                 | 42.39                   | 74.00          | 27.41       | H                  |
| 17324.875       | 51.99                       | -31.82          | 41.98                 | 41.83                   | 68.30          | 16.31       | H                  |
| 17843.250       | 55.00                       | -31.47          | 41.92                 | 44.55                   | 74.00          | 19.00       | V                  |
| 17912.000       | 55.62                       | -31.30          | 41.82                 | 45.10                   | 74.00          | 18.38       | V                  |

### WOSRT CASE BELOW 30MHz (EUT2, MIMO, 802.11a CH149)

RE 9kHz-30MHz



### WOSRT CASE 30MHz-1GHz (EUT2, MIMO, 802.11a CH149)

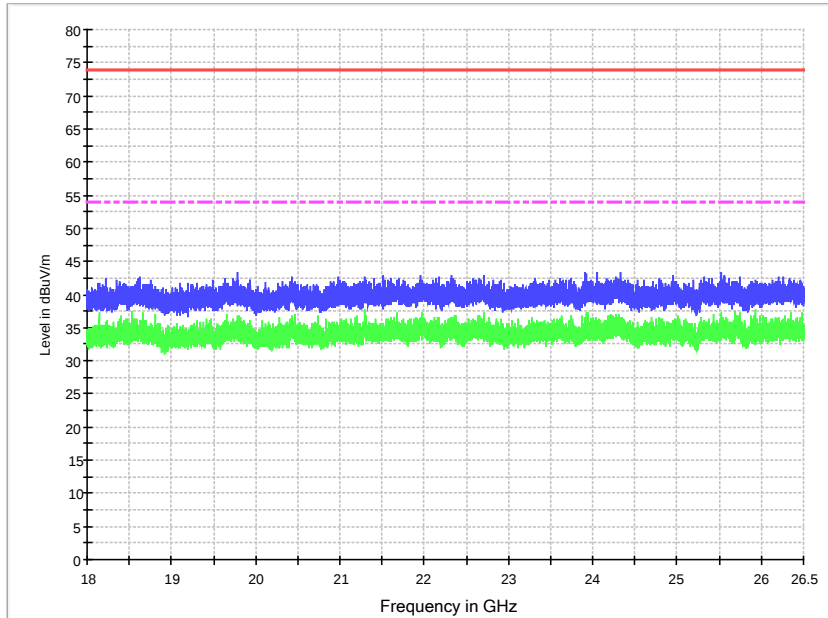


### Final Result 1

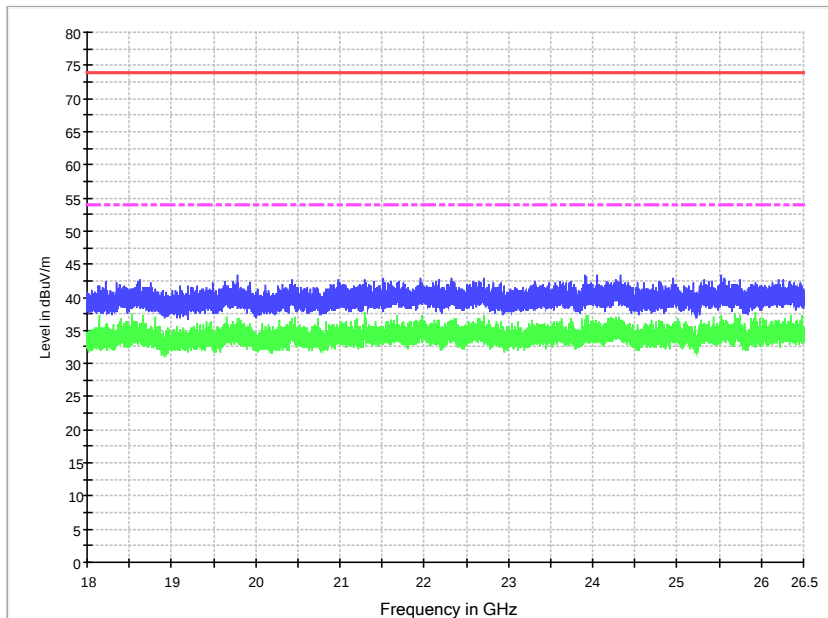
| Frequency (MHz) | Measurement Result (dBμV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 33.492          | 25.17                       | -14.38          | 12.48                 | 27.06                   | 40.00          | 14.83       | V                  |
| 34.850          | 25.25                       | -14.36          | 12.80                 | 26.81                   | 40.00          | 14.75       | V                  |
| 45.132          | 28.81                       | -14.23          | 13.95                 | 29.09                   | 40.00          | 11.19       | V                  |
| 79.373          | 15.04                       | -13.82          | 7.15                  | 21.71                   | 40.00          | 24.97       | V                  |

|         |       |        |       |       |       |       |   |
|---------|-------|--------|-------|-------|-------|-------|---|
| 97.900  | 17.55 | -13.70 | 11.68 | 19.57 | 43.50 | 25.95 | V |
| 913.864 | 31.28 | -9.61  | 21.80 | 19.09 | 46.00 | 14.72 | H |

### WOSRT CASE 18GHz-26.5 GHz (EUT2, MIMO, 802.11a CH149)



### WOSRT CASE 26.5 GHz-40GHz- (EUT2, MIMO, 802.11a CH149)



## A.6. Band Edges Compliance

### A6.1 Band Edges - Radiated

#### Measurement Limit:

| Standard                  | Limit (dBm/MHz)                                |      |
|---------------------------|------------------------------------------------|------|
| FCC 47 CFR<br>Part 15.407 | at the band edge                               | 27   |
|                           | at 5 MHz above or below the band edge          | 15.6 |
|                           | at 25 MHz above or below the band edge         | 10   |
|                           | at 75 MHz or more above or below the band edge | -27  |
|                           | Note: increasing linearly from point to point. |      |

#### Test Condition

The EUT was placed on a non-conductive table 80cm above the ground plane for measurement below 1GHz;1.5m above the ground plane for measurement above 1GHz . The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW       |
|-----------------------------|---------------|
| 30-1000                     | 100kHz/300kHz |
| 1000-4000                   | 1MHz/3MHz     |
| 4000-18000                  | 1MHz/3MHz     |
| 18000-26500                 | 1MHz/3MHz     |
| 26500-40000                 | 1MHz/3MHz     |

#### Measurement Result:

##### EUT1 & EUT2

| Mode            | ANT NO. | Channel  | Conclusion |
|-----------------|---------|----------|------------|
| 802.11a         | Core 0  | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
|                 | Core 1  | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
|                 | CCD     | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
| 802.11n<br>HT20 | Core 0  | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
|                 | Core 1  | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
|                 | MIMO    | 5745 MHz | P          |
|                 |         | 5825 MHz | P          |
| 802.11ac        | Core 0  | 5745 MHz | P          |

|                  |        |          |   |
|------------------|--------|----------|---|
| HT20             | Core 1 | 5825 MHz | P |
|                  |        | 5745 MHz | P |
|                  |        | 5825 MHz | P |
|                  | MIMO   | 5745 MHz | P |
|                  |        | 5825 MHz | P |
| 802.11ax<br>HT20 | Core 0 | 5745 MHz | P |
|                  |        | 5825 MHz | P |
|                  | Core 1 | 5745 MHz | P |
|                  |        | 5825 MHz | P |
|                  | MIMO   | 5745 MHz | P |
|                  |        | 5825 MHz | P |
| 802.11n<br>HT40  | Core 0 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | Core 1 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | MIMO   | 5755 MHz | P |
|                  |        | 5795 MHz | P |
| 802.11ac<br>HT40 | Core 0 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | Core 1 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | MIMO   | 5755 MHz | P |
|                  |        | 5795 MHz | P |
| 802.11ax<br>HT40 | Core 0 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | Core 1 | 5755 MHz | P |
|                  |        | 5795 MHz | P |
|                  | MIMO   | 5755 MHz | P |
|                  |        | 5795 MHz | P |
| 802.11ac<br>HT80 | Core 0 | 5775 MHz | P |
|                  | Core 1 | 5775 MHz | P |
|                  | MIMO   | 5775 MHz | P |
| 802.11ax<br>HT80 | Core 0 | 5775 MHz | P |
|                  | Core 1 | 5775 MHz | P |
|                  | MIMO   | 5775 MHz | P |

Note: All combinations were tested and only the worst results are shown in this report.

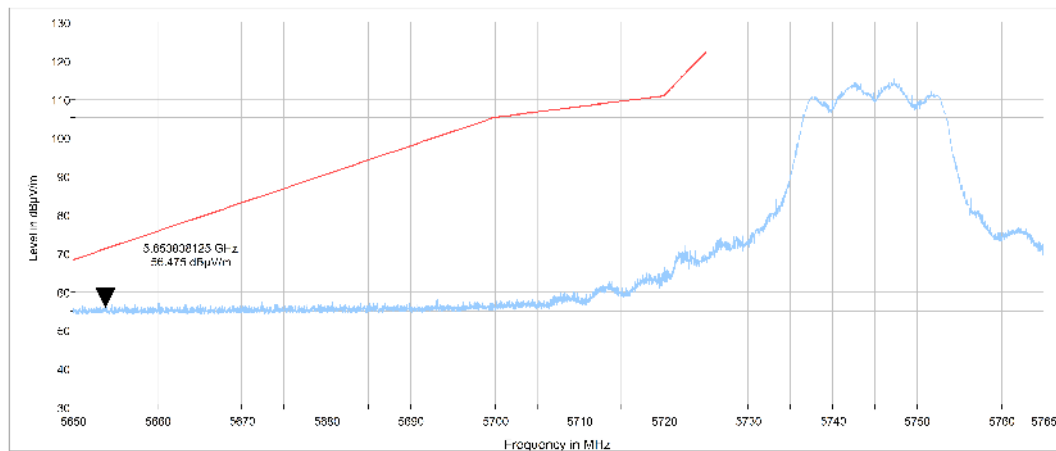
#### EUT2, MIMO

| Mode    | Channel         | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| 802.11a | CH149(5745 MHz) | Fig.31       | P          |
|         | CH165(5825 MHz) | Fig.32       | P          |
| 802.11n | CH149(5745 MHz) | Fig.33       | P          |

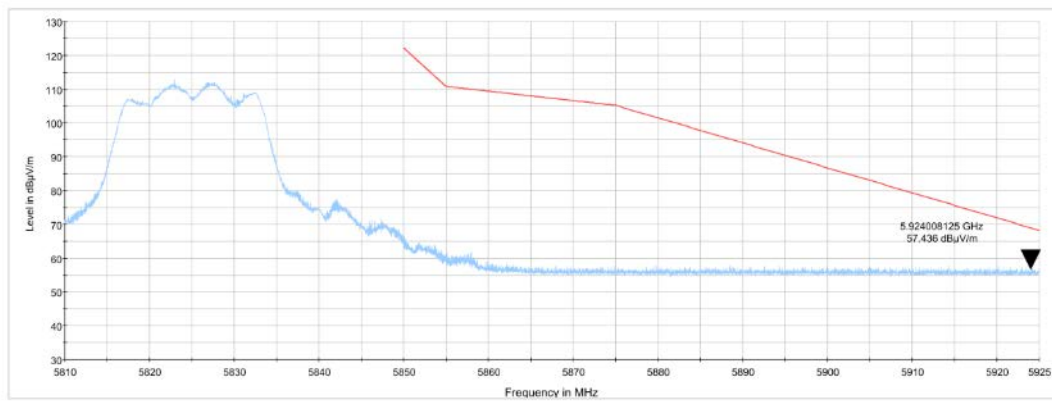
|          |                 |        |   |
|----------|-----------------|--------|---|
| HT20     | CH165(5825 MHz) | Fig.34 | P |
| 802.11ac | CH149(5745 MHz) | Fig.35 | P |
| HT20     | CH165(5825 MHz) | Fig.36 | P |
| 802.11ax | CH149(5745 MHz) | Fig.37 | P |
| HT20     | CH165(5825 MHz) | Fig.38 | P |
| 802.11n  | CH151(5755 MHz) | Fig.39 | P |
| HT40     | CH159(5795 MHz) | Fig.40 | P |
| 802.11ac | CH151(5755 MHz) | Fig.41 | P |
| HT40     | CH159(5795 MHz) | Fig.42 | P |
| 802.11ax | CH151(5755 MHz) | Fig.43 | P |
| HT40     | CH159(5795 MHz) | Fig.44 | P |
| 802.11ac | CH155(5775 MHz) | Fig.45 | P |
| HT80     | CH155(5775 MHz) | Fig.46 |   |
| 802.11ax | CH155(5775 MHz) | Fig.47 | P |
| HT80     | CH155(5775 MHz) | Fig.48 |   |

**Conclusion: PASS**

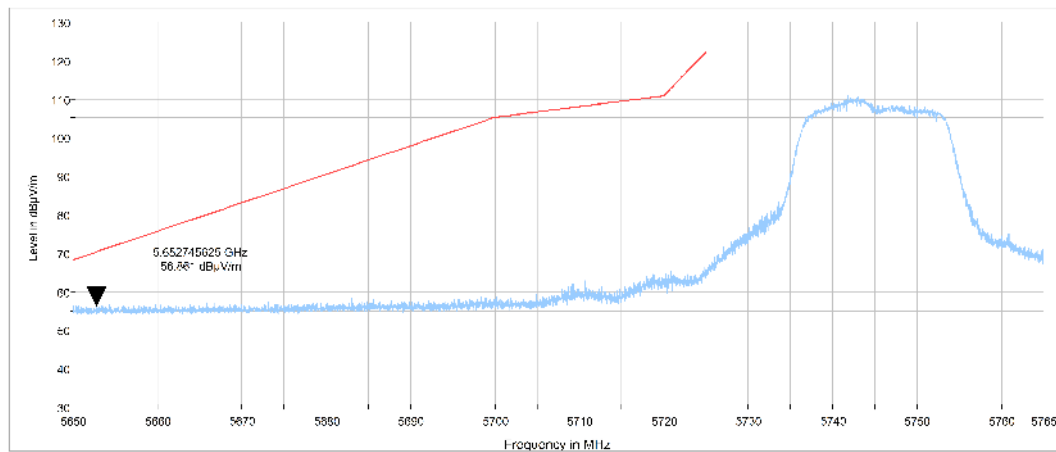
**Test graphs as below:**



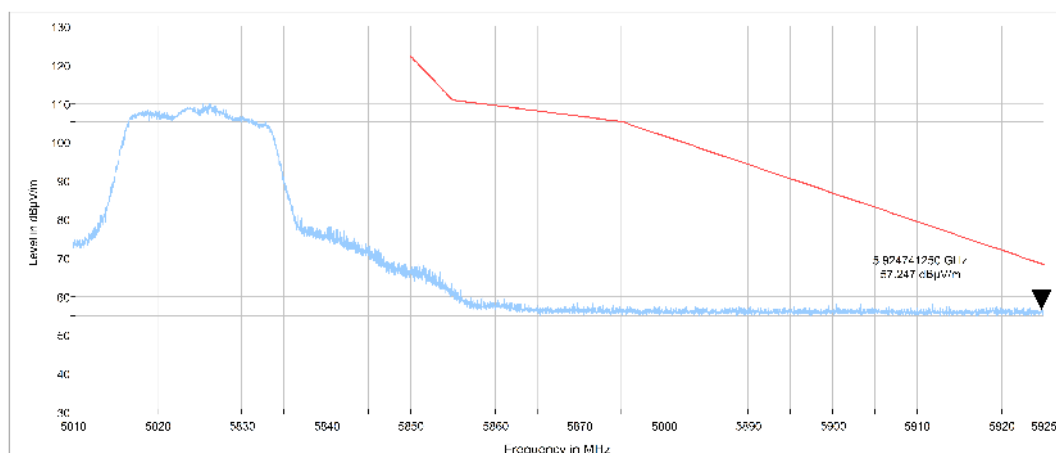
**Fig. 31 Band Edges (802.11a Ch149,5745MHz)**



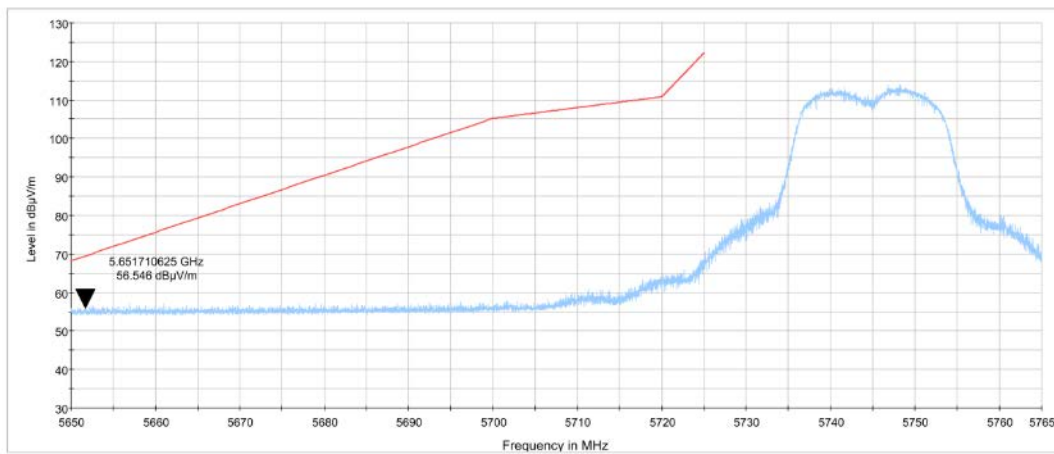
**Fig. 32 Band Edges (802.11a Ch165, 5825MHz)**



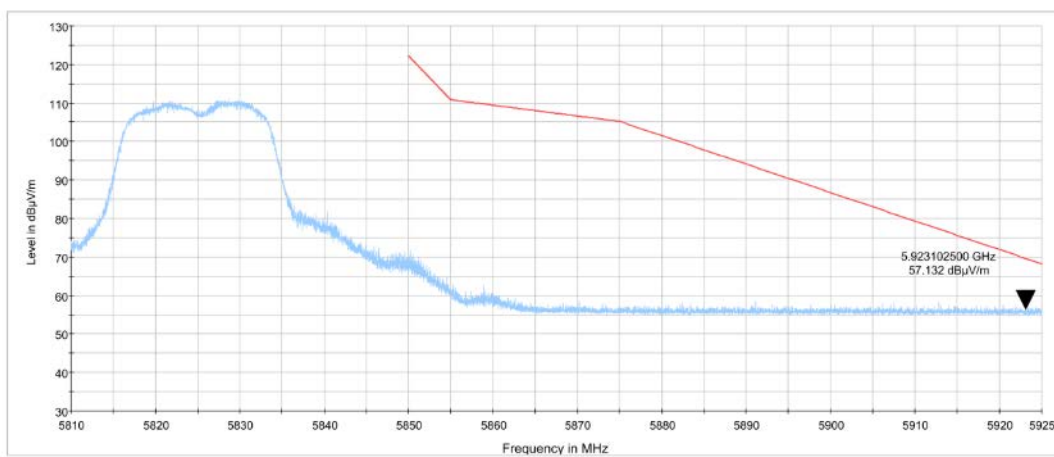
**Fig. 33 Band Edges (802.11n-HT20 Ch149, 5745MHz)**



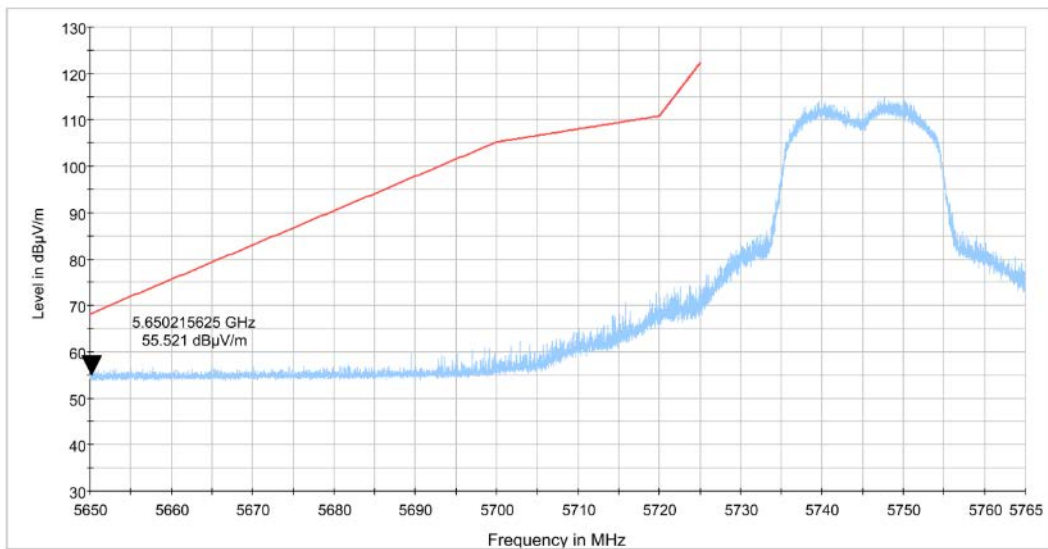
**Fig. 34 Band Edges (802.11n-HT20 Ch165, 5825MHz)**



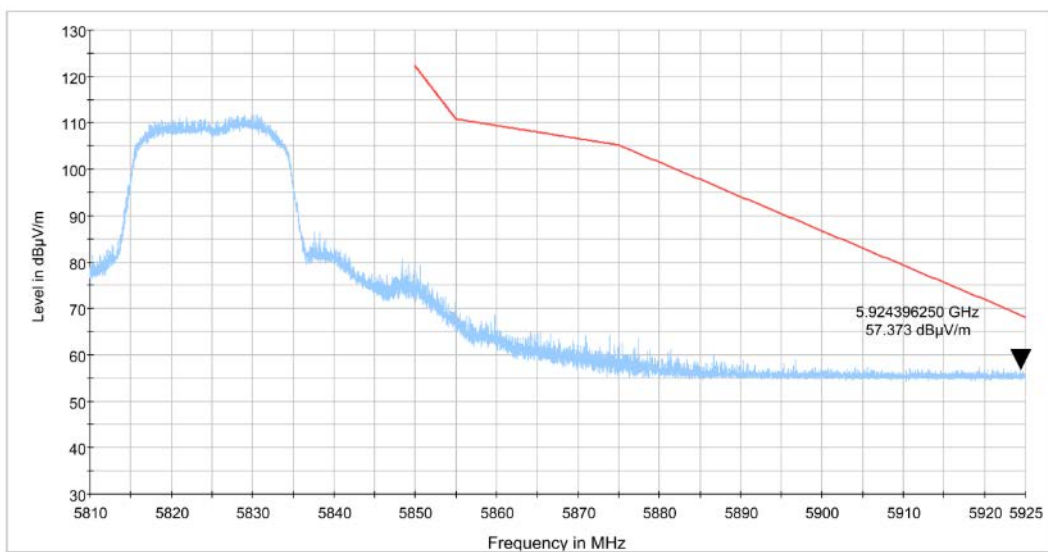
**Fig. 35 Band Edges (802.11ac-HT20 Ch149, 5745MHz)**



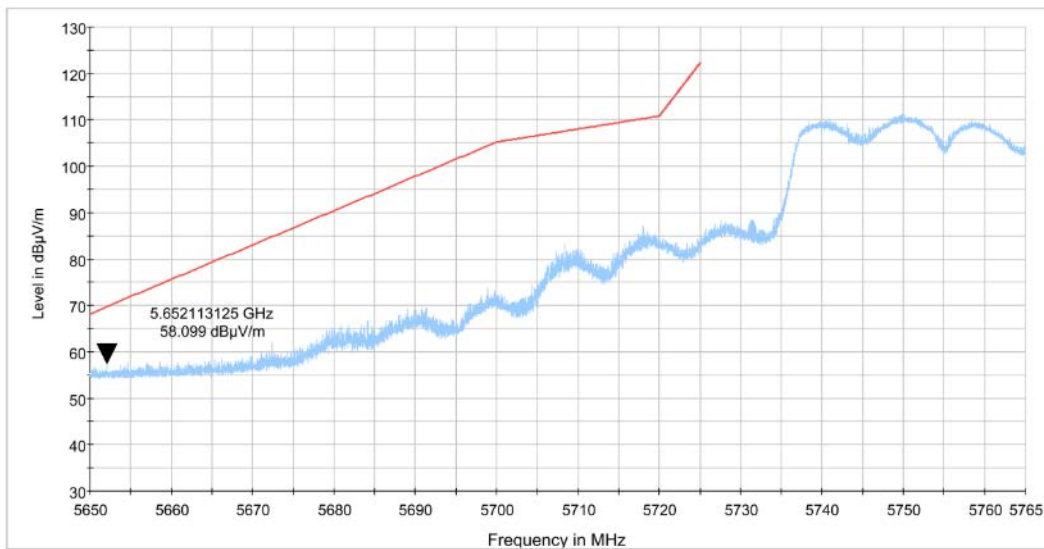
**Fig. 36 Band Edges (802.11ac-HT20 Ch165, 5825MHz)**



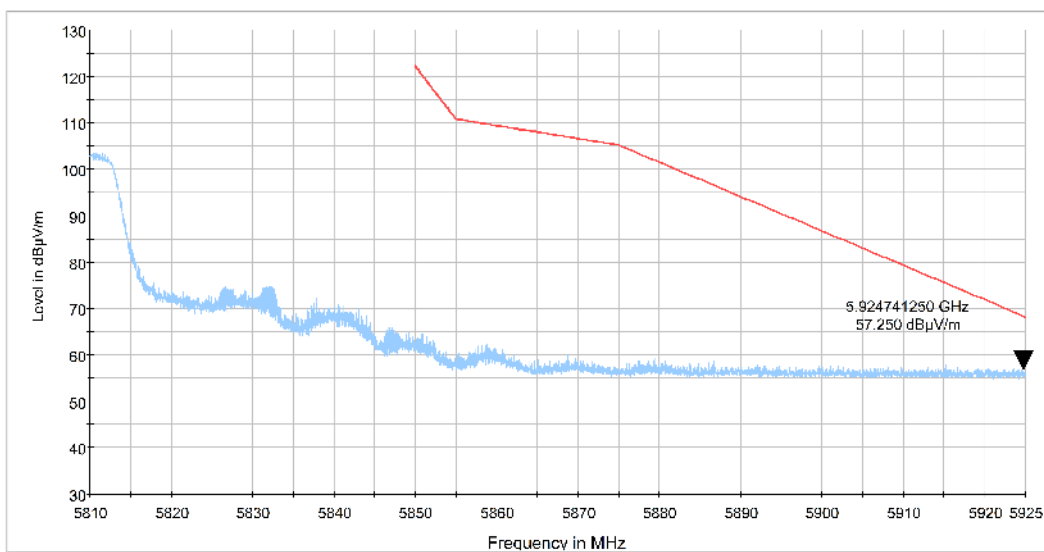
**Fig. 37 Band Edges (802.11ax-HT20 Ch149, 5745MHz)**



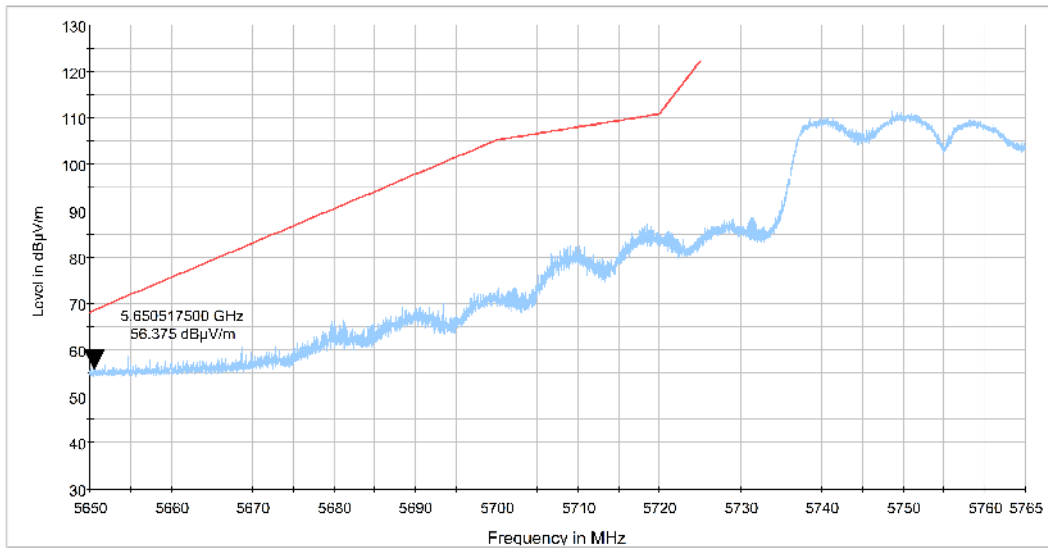
**Fig. 38 Band Edges (802.11ax-HT20 Ch165, 5825MHz)**



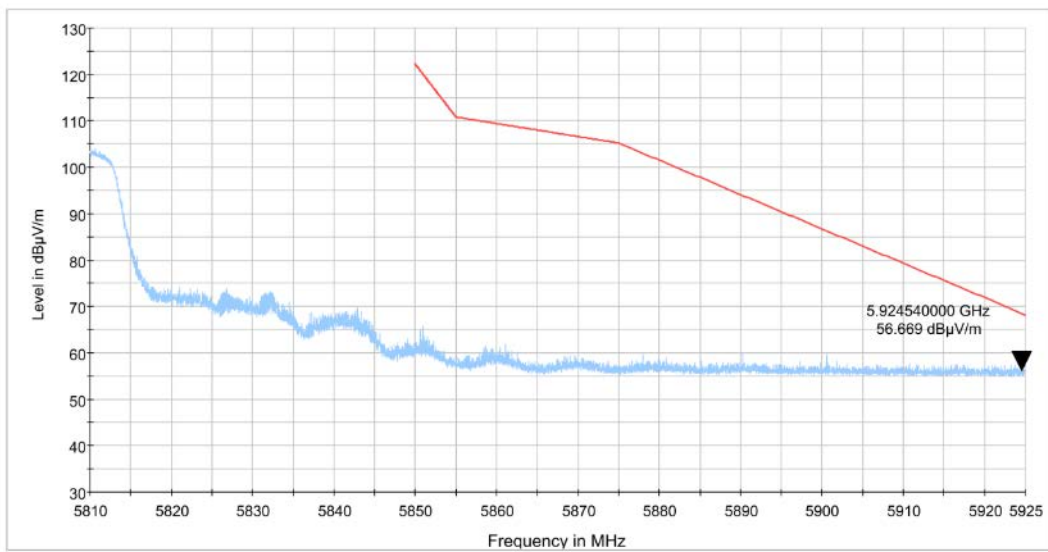
**Fig. 39 Band Edges (802.11n-HT40 Ch151, 5755MHz)**



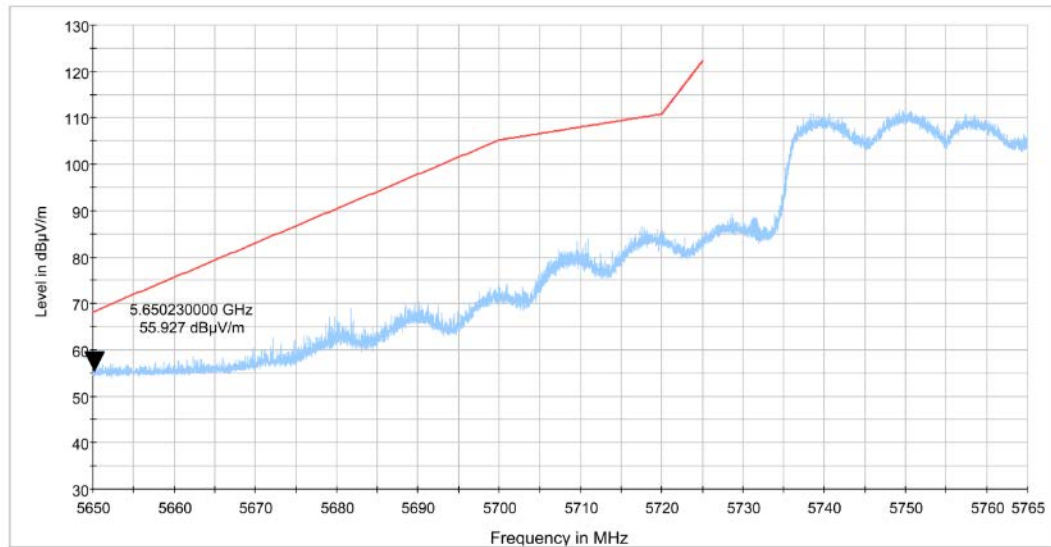
**Fig. 40 Band Edges (802.11n-HT40 Ch159, 5795MHz)**



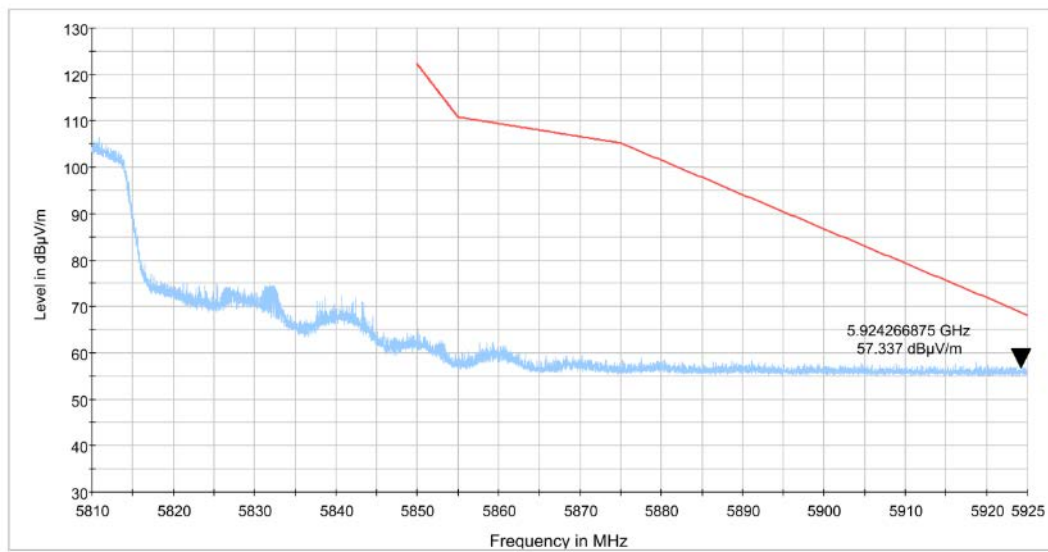
**Fig. 41 Band Edges (802.11ac-HT40 Ch151, 5755MHz)**



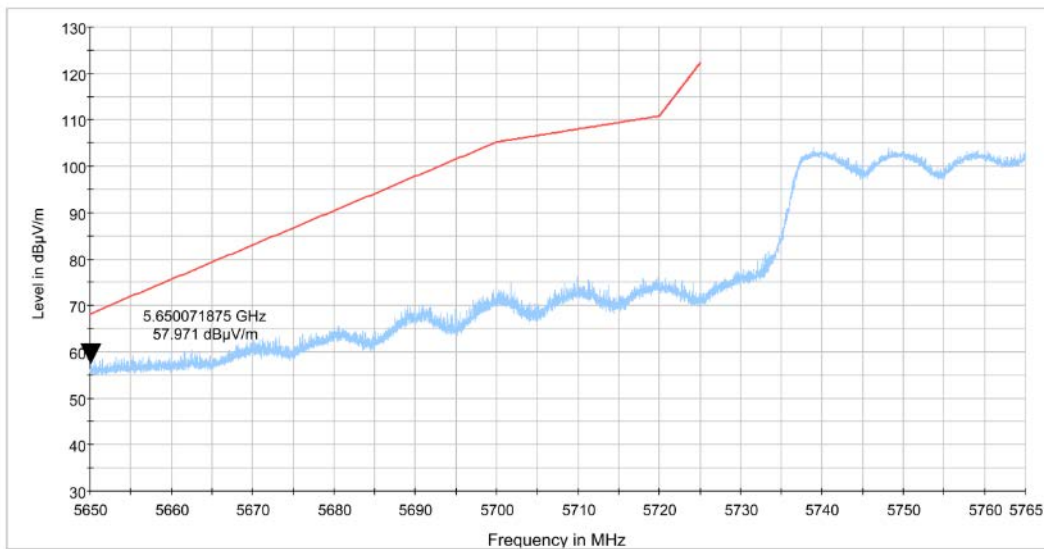
**Fig. 42 Band Edges (802.11ac-HT40 Ch159, 5795MHz)**



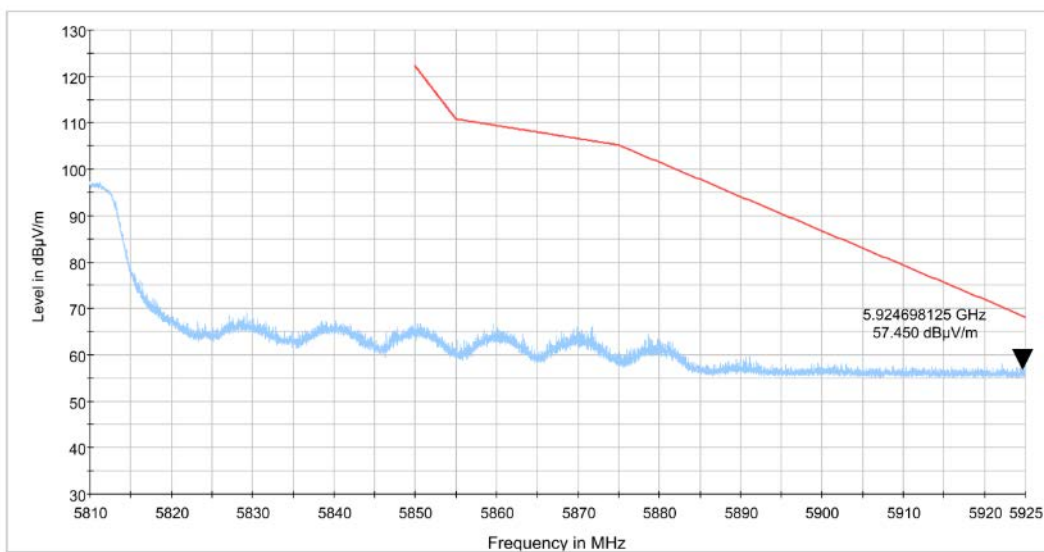
**Fig. 43 Band Edges (802.11ax-HT40 Ch151, 5755MHz)**



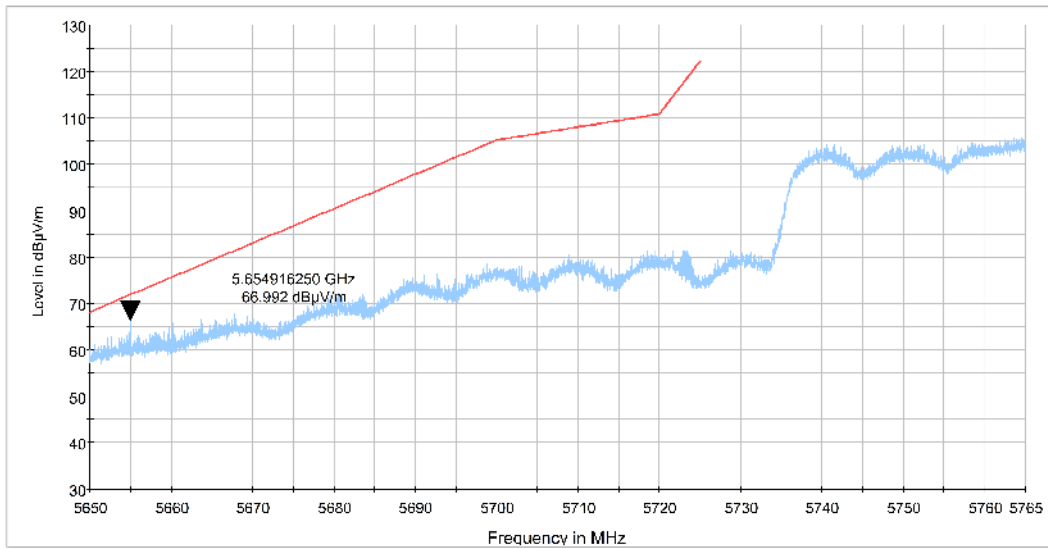
**Fig. 44 Band Edges (802.11ax-HT40 Ch159, 5795MHz)**



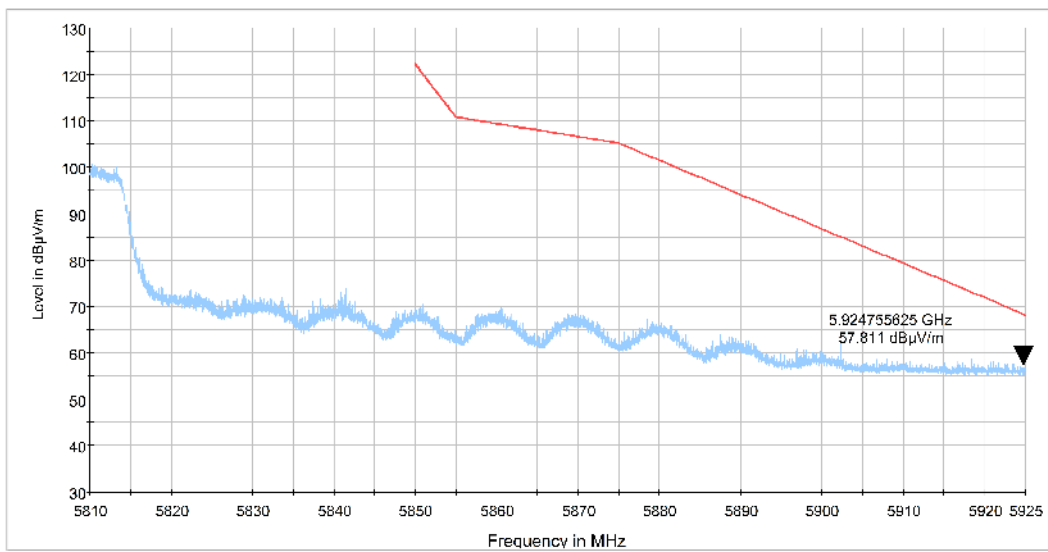
**Fig. 45 Band Edges (802.11ac-HT80 Ch155 L, 5775MHz)**



**Fig. 46 Band Edges (802.11ac-HT80 Ch155 R, 5775MHz)**



**Fig. 47 Band Edges (802.11ax-HT80 Ch155 L, 5775MHz)**



**Fig. 48 Band Edges (802.11ax-HT80 Ch155 R, 5775MHz)**

## A.7. AC Powerline Conducted Emission

### Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120         | 60             |

### Measurement uncertainty:

Expanded measurement uncertainty for this test item is  $U = 3.1\text{dB}$ ,  $k=2$ .

### Measurement Result and limit:

Measurement Result = Receiver Reading + Voltage division factor + Cable loss

| EUT set-up No. | Combination of EUT and AE | Remarks       |
|----------------|---------------------------|---------------|
| Set.1          | EUT1+AE1+AE2+AE4          | EUT1+Charger1 |
| Set.2          | EUT2+AE9+AE3+AE5          | EUT2+Charger2 |

Note: All combinations were tested, and only the worst results are shown in this report.

### WLAN (Quasi-peak Limit)

| Frequency range<br>(MHz) | Quasi-peak<br>Limit (dBμV) | Result (dBμV) |        | Conclusion |
|--------------------------|----------------------------|---------------|--------|------------|
|                          |                            | With charger  |        |            |
|                          |                            | 802.11a       | Idle   |            |
| 0.15 to 0.5              | 66 to 56                   | Fig.49        | Fig.50 | P          |
| 0.5 to 5                 | 56                         |               |        |            |
| 5 to 30                  | 60                         |               |        |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### WLAN (Average Limit)

| Frequency range<br>(MHz) | Average Limit<br>(dBμV) | Result (dBμV) |        | Conclusion |
|--------------------------|-------------------------|---------------|--------|------------|
|                          |                         | With charger  |        |            |
|                          |                         | 802.11a       | Idle   |            |
| 0.15 to 0.5              | 56 to 46                | Fig.49        | Fig.50 | <b>P</b>   |
| 0.5 to 5                 | 46                      |               |        |            |
| 5 to 30                  | 50                      |               |        |            |

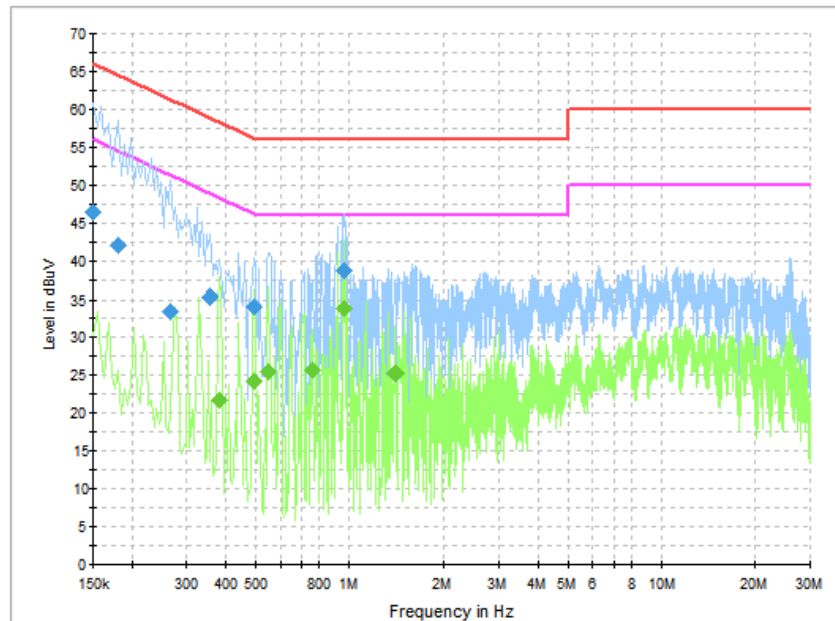
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

**Conclusion: PASS**

**Test graphs as below:**

**Traffic:**



#### 49 AC Power line Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

##### Final Result 1/QP

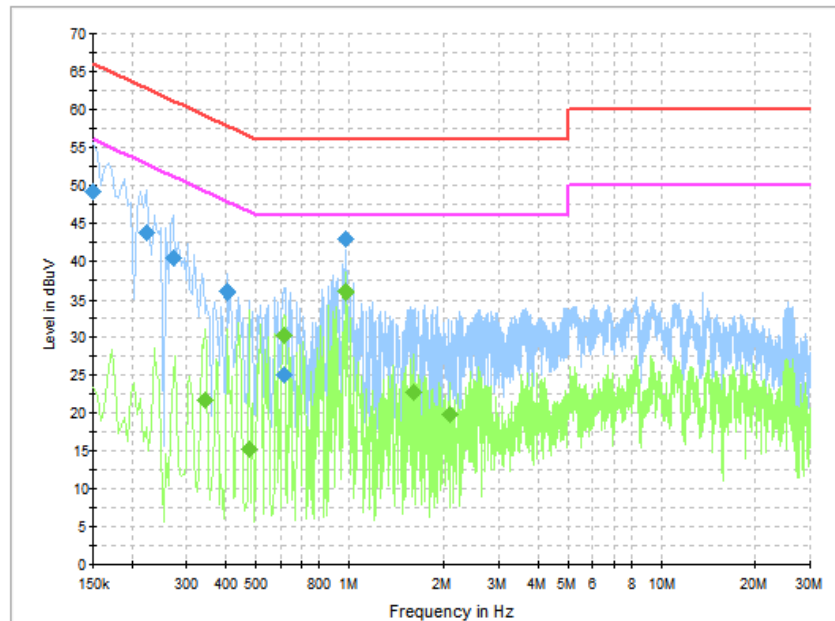
| Frequency (MHz) | Measurement Result (dBμV) | Cable loss (dB) | Voltage diviation factor (dB) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Line (L/N) |
|-----------------|---------------------------|-----------------|-------------------------------|-------------------------|----------------|-------------|------------|
| 0.150           | 49.18                     | 9.83            | 9.76                          | 29.59                   | 66.00          | 16.82       | N          |
| 0.222           | 43.57                     | 9.88            | 9.81                          | 23.87                   | 62.70          | 19.13       | N          |
| 0.272           | 40.37                     | 9.88            | 9.84                          | 20.65                   | 61.10          | 20.73       | N          |
| 0.407           | 35.93                     | 9.88            | 9.89                          | 16.16                   | 57.70          | 21.78       | N          |
| 0.618           | 25.05                     | 9.83            | 9.87                          | 5.34                    | 56.00          | 30.95       | N          |
| 0.969           | 42.88                     | 9.89            | 9.78                          | 23.21                   | 56.00          | 13.12       | L1         |

##### Final Result 2/AV

| Frequency (MHz) | Measurement Result (dBμV) | Cable loss (dB) | Voltage diviation factor (dB) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Line (L/N) |
|-----------------|---------------------------|-----------------|-------------------------------|-------------------------|----------------|-------------|------------|
| 0.344           | 21.76                     | 9.88            | 9.87                          | 2.01                    | 49.10          | 27.34       | N          |
| 0.479           | 15.29                     | 9.88            | 9.91                          | -4.50                   | 46.40          | 31.11       | L1         |
| 0.618           | 30.22                     | 9.83            | 9.87                          | 10.51                   | 46.00          | 15.78       | L1         |
| 0.969           | 36.03                     | 9.89            | 9.78                          | 16.36                   | 46.00          | 9.97        | L1         |
| 1.586           | 22.76                     | 9.91            | 9.74                          | 3.10                    | 46.00          | 23.25       | L1         |
| 2.076           | 19.80                     | 9.91            | 9.73                          | 0.17                    | 46.00          | 26.20       | L1         |

Note2: The measurement results showed here are worst cases.

Idle:



### 50 AC Power line Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

#### Final Result 1/QP

| Frequency (MHz) | Measurement Result (dBμV) | Cable loss (dB) | Voltage diviation factor (dB) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Line (L/N) |
|-----------------|---------------------------|-----------------|-------------------------------|-------------------------|----------------|-------------|------------|
| 0.150           | 49.18                     | 9.83            | 9.76                          | 29.59                   | 66.00          | 16.82       | N          |
| 0.222           | 43.57                     | 9.88            | 9.81                          | 23.87                   | 62.70          | 19.13       | N          |
| 0.272           | 40.37                     | 9.88            | 9.84                          | 20.65                   | 61.10          | 20.73       | N          |
| 0.407           | 35.93                     | 9.88            | 9.89                          | 16.16                   | 57.70          | 21.77       | N          |
| 0.618           | 25.05                     | 9.83            | 9.87                          | 5.34                    | 56.00          | 30.95       | N          |
| 0.969           | 42.88                     | 9.89            | 9.78                          | 23.21                   | 56.00          | 13.12       | L1         |

#### Final Result 2/AV

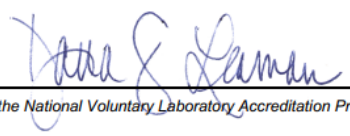
| Frequency (MHz) | Measurement Result (dBμV) | Cable loss (dB) | Voltage diviation factor (dB) | Receiver Reading (dBμV) | Limit (dBμV/m) | Margin (dB) | Line (L/N) |
|-----------------|---------------------------|-----------------|-------------------------------|-------------------------|----------------|-------------|------------|
| 0.344           | 21.76                     | 9.88            | 9.87                          | 2.01                    | 49.10          | 27.34       | N          |
| 0.479           | 15.29                     | 9.88            | 9.91                          | -4.50                   | 46.40          | 31.11       | L1         |
| 0.618           | 30.22                     | 9.83            | 9.87                          | 10.51                   | 46.00          | 15.78       | L1         |
| 0.969           | 36.03                     | 9.89            | 9.78                          | 16.36                   | 46.00          | 9.97        | L1         |
| 1.586           | 22.76                     | 9.91            | 9.74                          | 3.10                    | 46.00          | 23.24       | L1         |
| 2.076           | 19.80                     | 9.91            | 9.73                          | 0.17                    | 46.00          | 26.20       | L1         |

Note2: The measurement results showed here are worst cases.

## ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

## ANNEX C: Accreditation Certificate

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| <p><b>United States Department of Commerce<br/>National Institute of Standards and Technology</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">NVLAP<sup>®</sup></div><div style="text-align: center;"></div></div> <hr style="border: 0.5px solid black;"/> <p style="font-size: 1.2em; font-weight: bold;">Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr style="border: 0.5px solid black;"/> <p style="font-weight: bold;">NVLAP LAB CODE: 600118-0</p> <p style="font-weight: bold; text-align: center;">Telecommunication Technology Labs, CAICT</p> <p style="text-align: center;">Beijing<br/>China</p> <p style="font-size: 0.8em;"><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services,<br/>listed on the Scope of Accreditation, for:</i></p> <p style="font-weight: bold; text-align: center;">Electromagnetic Compatibility &amp; Telecommunications</p> <p style="font-size: 0.7em;"><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.<br/>This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality<br/>management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 20px;"><div style="width: 30%; text-align: center;"><hr style="border: 0.5px solid black;"/><p style="font-size: 0.8em;">2020-09-29 through 2021-09-30<br/><i>Effective Dates</i></p></div><div style="width: 15%; text-align: center;"></div><div style="width: 40%; text-align: center;"><hr style="border: 0.5px solid black;"/><p style="font-size: 0.8em;">For the National Voluntary Laboratory Accreditation Program</p></div></div> |  |
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