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## 1. 26dB Bandwidth and 99% Bandwidth

### 1.1 Test Datas

| Channel (mode)       | Channel Frequency (MHz) | Emission Bandwidth                                |                                                    |
|----------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|
|                      |                         | 26dB Bandwidth (MHz)                              | 99% Bandwidth (MHz)                                |
| 36 (802.11a)         | 5180                    | 22.300                                            | 16.600                                             |
| 40 (802.11a)         | 5220                    | 22.300                                            | 16.600                                             |
| 48 (802.11a)         | 5240                    | 22.300                                            | <b>16.700</b>                                      |
| 52 (802.11a)         | 5260                    | 22.300                                            | <b>16.700</b>                                      |
| 56 (802.11a)         | 5300                    | 22.600                                            | 16.600                                             |
| 64 (802.11a)         | 5320                    | 22.500                                            | 16.600                                             |
| 100 (802.11a)        | 5500                    | 22.900                                            | <b>16.600</b>                                      |
| <b>116</b> (802.11a) | 5580                    | 22.300                                            | 16.300                                             |
| 140 (802.11a)        | 5700                    | 22.300                                            | 16.600                                             |
| 144 (802.11a)        | 5720                    | 23.100<br>16.750 for U-NII 2C<br>6.350 or U-NII 3 | 16.700<br>13.350 for U-NII 2C<br>3.350 for U-NII 3 |
| 149 (802.11a)        | 5745                    | --                                                | 16.600                                             |
| 157 (802.11a)        | 5785                    | --                                                | <b>16.600</b>                                      |
| 165 (802.11a)        | 5825                    | --                                                | 16.600                                             |

| Channel (mode)     | Channel Frequency (MHz) | Emission Bandwidth                                |                                                    |
|--------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|
|                    |                         | 26dB Bandwidth (MHz)                              | 99% Bandwidth (MHz)                                |
| 36 (802.11n-HT20)  | 5180                    | 23.200                                            | 17.900                                             |
| 40 (802.11n-HT20)  | 5220                    | 23.200                                            | 17.900                                             |
| 48 (802.11n-HT20)  | 5240                    | 23.500                                            | <b>17.900</b>                                      |
| 52 (802.11n-HT20)  | 5260                    | 23.200                                            | 17.900                                             |
| 56 (802.11n-HT20)  | 5300                    | 22.900                                            | 17.800                                             |
| 64 (802.11n-HT20)  | 5320                    | 23.300                                            | <b>17.900</b>                                      |
| 100 (802.11n-HT20) | 5500                    | 23.200                                            | 17.800                                             |
| 116 (802.11n-HT20) | 5580                    | 23.200                                            | <b>17.900</b>                                      |
| 140 (802.11n-HT20) | 5700                    | 22.800                                            | 17.900                                             |
| 144 (802.11n-HT20) | 5720                    | 23.200<br>16.450 for U-NII 2C<br>6.750 or U-NII 3 | 17.900<br>13.950 for U-NII 2C<br>3.850 for U-NII 3 |
| 149 (802.11n-HT20) | 5745                    | --                                                | 17.800                                             |
| 157 (802.11n-HT20) | 5785                    | --                                                | <b>17.800</b>                                      |
| 165 (802.11n-HT20) | 5825                    | --                                                | 17.800                                             |

| Channel (mode)   | Channel Frequency (MHz) | Emission Bandwidth                                 |                                                    |
|------------------|-------------------------|----------------------------------------------------|----------------------------------------------------|
|                  |                         | 26dB Bandwidth (MHz)                               | 99% Bandwidth (MHz)                                |
| 36 (802.11ac20)  | 5180                    | 23.200                                             | 17.900                                             |
| 40 (802.11ac20)  | 5220                    | 23.200                                             | <b>17.900</b>                                      |
| 48 (802.11ac20)  | 5240                    | 23.200                                             | 17.900                                             |
| 52 (802.11ac20)  | 5260                    | 22.800                                             | <b>17.900</b>                                      |
| 56 (802.11ac20)  | 5300                    | 23.400                                             | 17.800                                             |
| 64 (802.11ac20)  | 5320                    | 23.200                                             | 17.800                                             |
| 100 (802.11ac20) | 5500                    | 23.200                                             | <b>17.900</b>                                      |
| 116 (802.11ac20) | 5580                    | 23.200                                             | 17.700                                             |
| 140 (802.11ac20) | 5700                    | 22.900                                             | 17.800                                             |
| 144 (802.11ac20) | 5720                    | 23.200<br>16.450 for U-NII 2C<br>6.750 for U-NII 3 | 17.800<br>13.950 for U-NII 2C<br>3.850 for U-NII 3 |
| 149 (802.11ac20) | 5745                    | --                                                 | 17.800                                             |

|                  |      |    |               |
|------------------|------|----|---------------|
| 157 (802.11ac20) | 5785 | -- | <b>17.900</b> |
| 165 (802.11ac20) | 5825 | -- | 17.700        |

| Channel (mode)     | Channel Frequency (MHz) | Emission Bandwidth                                |                                                    |
|--------------------|-------------------------|---------------------------------------------------|----------------------------------------------------|
|                    |                         | 26dB Bandwidth (MHz)                              | 99% Bandwidth (MHz)                                |
| 38 (802.11n-HT40)  | 5190                    | 42.026                                            | 36.500                                             |
| 46 (802.11n-HT40)  | 5230                    | 42.026                                            | <b>36.500</b>                                      |
| 54 (802.11n-HT40)  | 5270                    | 41.876                                            | 36.500                                             |
| 62 (802.11n-HT40)  | 5310                    | 42.176                                            | <b>36.500</b>                                      |
| 102 (802.11n-HT40) | 5510                    | 42.176                                            | 36.500                                             |
| 110 (802.11n-HT40) | 5550                    | 42.176                                            | 36.500                                             |
| 134 (802.11n-HT40) | 5670                    | 42.326                                            | <b>36.500</b>                                      |
| 142 (802.11n-HT40) | 5710                    | 41.176<br>36.014 for U-NII 2C<br>5.162 for UNII 3 | 36.500<br>33.125 for U-NII 2C<br>3.375 for U-NII 3 |
| 151 (802.11n-HT40) | 5755                    | --                                                | 36.500                                             |
| 159 (802.11n-HT40) | 5795                    | --                                                | <b>36.500</b>                                      |

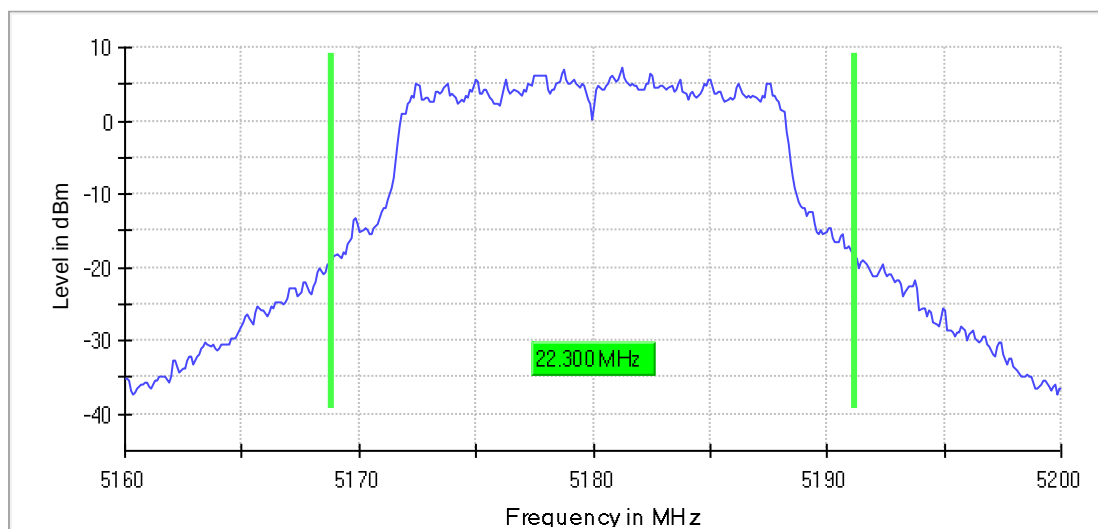
| Channel (mode)   | Channel Frequency (MHz) | Emission Bandwidth                                 |                                                    |
|------------------|-------------------------|----------------------------------------------------|----------------------------------------------------|
|                  |                         | 26dB Bandwidth (MHz)                               | 99% Bandwidth (MHz)                                |
| 38 (802.11ac40)  | 5190                    | 42.026                                             | <b>36.500</b>                                      |
| 46 (802.11ac40)  | 5230                    | 42.026                                             | 36.500                                             |
| 54 (802.11ac40)  | 5270                    | 41.876                                             | 36.500                                             |
| 62 (802.11ac40)  | 5310                    | 42.026                                             | <b>36.500</b>                                      |
| 102 (802.11ac40) | 5510                    | 42.176                                             | 36.500                                             |
| 110 (802.11ac40) | 5550                    | 42.326                                             | <b>36.500</b>                                      |
| 134 (802.11ac40) | 5670                    | 42.176                                             | <b>36.500</b>                                      |
| 142 (802.11ac40) | 5710                    | 42.326<br>36.163 for U-NII 2C<br>6.163 for U-NII 3 | 36.500<br>33.125 for U-NII 2C<br>3.375 for U-NII 3 |
| 151 (802.11ac40) | 5755                    | --                                                 | <b>36.500</b>                                      |
| 159 (802.11ac40) | 5795                    | --                                                 | 36.500                                             |

| Channel (mode)   | Channel Frequency (MHz) | Emission Bandwidth                                 |                                                    |
|------------------|-------------------------|----------------------------------------------------|----------------------------------------------------|
|                  |                         | 26dB Bandwidth (MHz)                               | 99% Bandwidth (MHz)                                |
| 42 (802.11ac80)  | 5210                    | 85.500                                             | 76.000                                             |
| 58 (802.11ac80)  | 5290                    | 85.500                                             | 76.000                                             |
| 106 (802.11ac80) | 5530                    | 85.500                                             | 76.000                                             |
| 138 (802.11ac80) | 5690                    | 85.500<br>77.750 for U-NII 2C<br>7.750 for U-NII 3 | 76.000<br>72.750 for U-NII 2C<br>3.250 for U-NII 3 |
| 155 (802.11ac80) | 5775                    | --                                                 | 76.000                                             |

## 1.2 Test Graphs (The widest bandwidth plots in each UNII band)

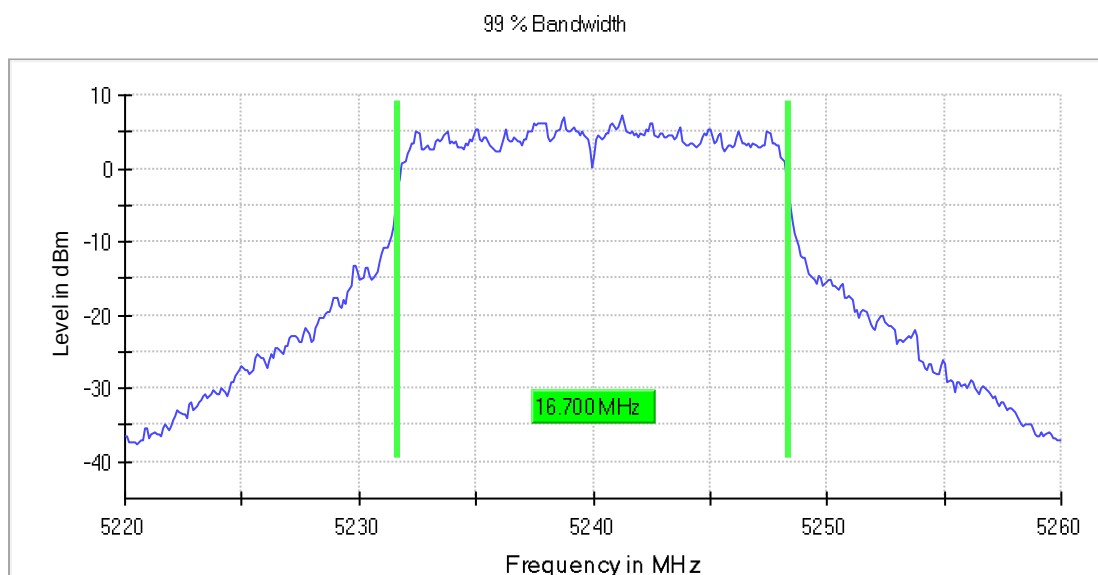
802.11a

26 dB Bandwidth



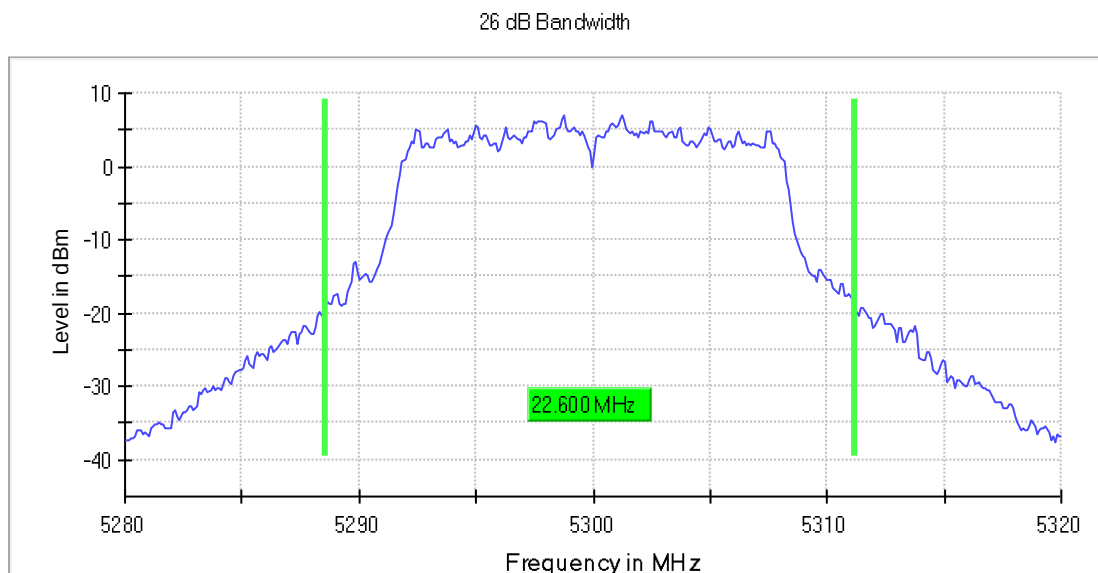
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.16000 GHz      | 5.16000 GHz    |
| Stop Frequency        | 5.20000 GHz      | 5.20000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 $\mu$ s   | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 27 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.22 dB          | 0.30 dB        |



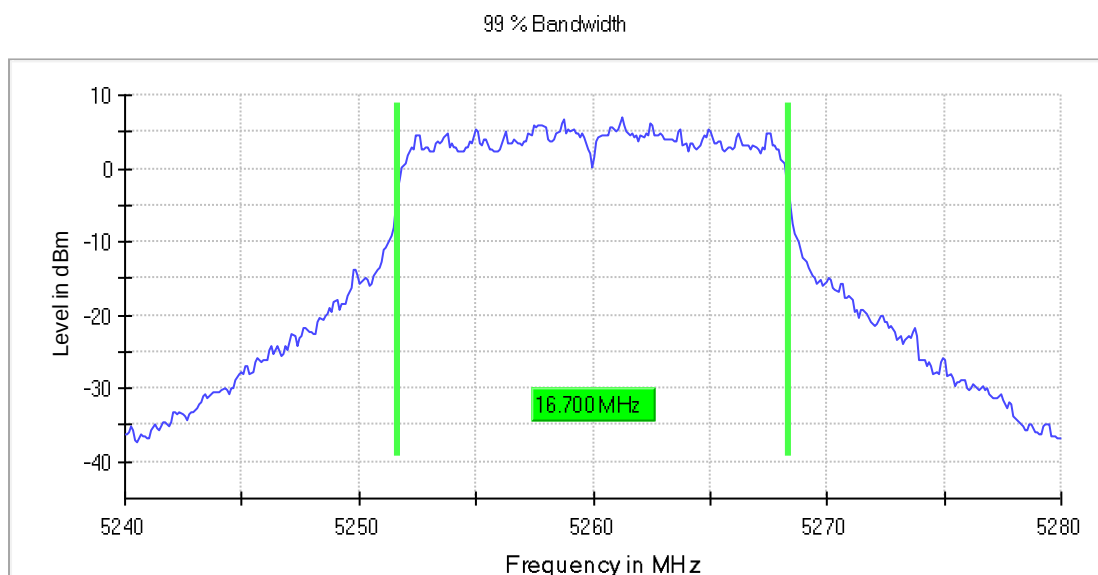
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.22000 GHz      | 5.22000 GHz    |
| Stop Frequency        | 5.26000 GHz      | 5.26000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 45 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.00 dB          | 0.30 dB        |



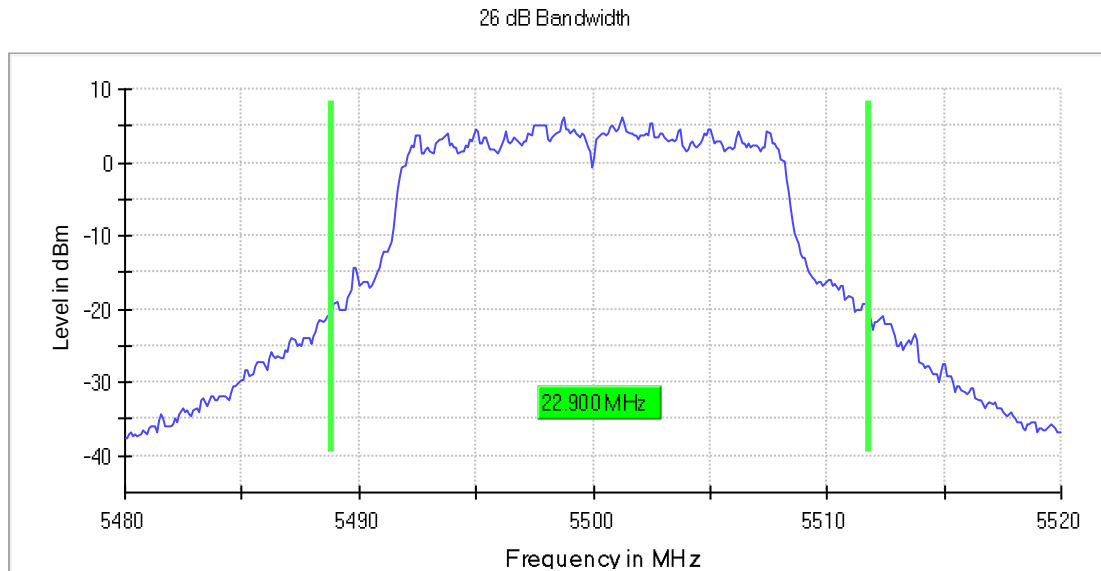
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.28000 GHz      | 5.28000 GHz    |
| Stop Frequency        | 5.32000 GHz      | 5.32000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 31 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.12 dB          | 0.30 dB        |



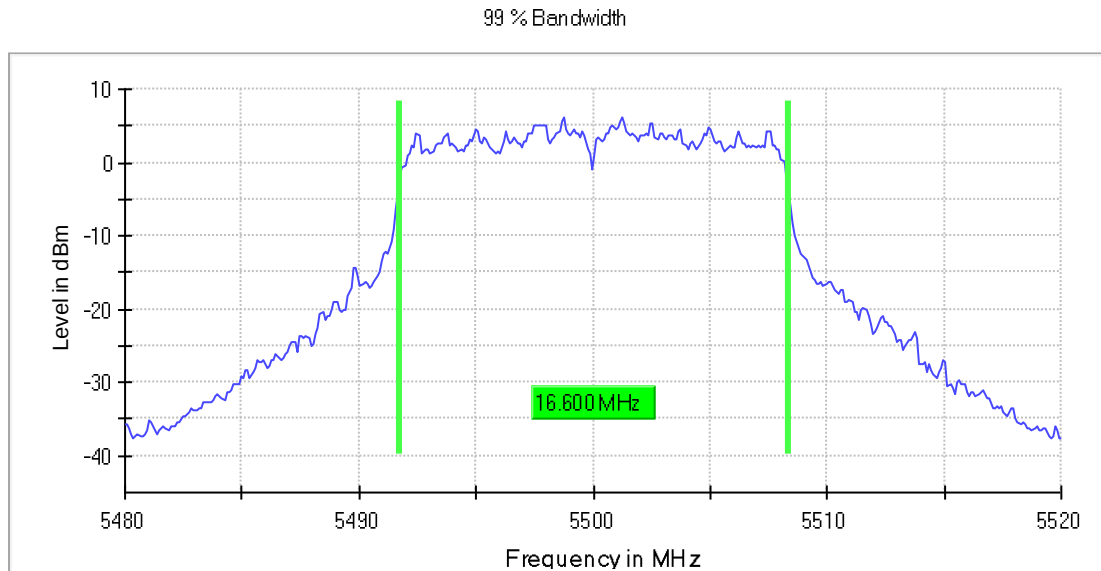
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.24000 GHz      | 5.24000 GHz    |
| Stop Frequency        | 5.28000 GHz      | 5.28000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 54 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.11 dB          | 0.30 dB        |



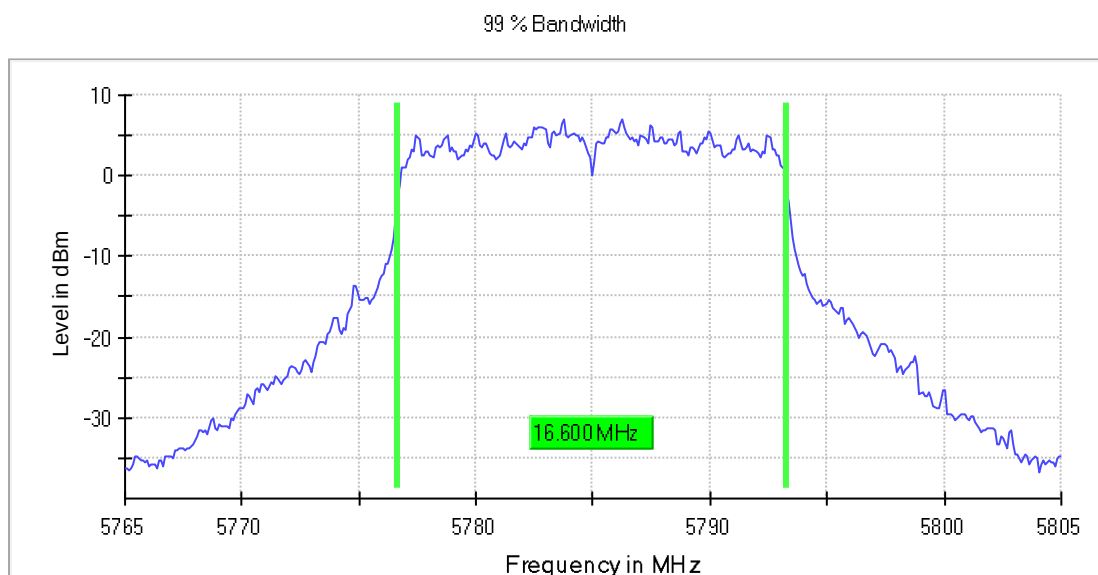
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.48000 GHz      | 5.48000 GHz    |
| Stop Frequency        | 5.52000 GHz      | 5.52000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 38 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.05 dB          | 0.30 dB        |



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.48000 GHz      | 5.48000 GHz    |
| Stop Frequency        | 5.52000 GHz      | 5.52000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 35 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.29 dB          | 0.30 dB        |

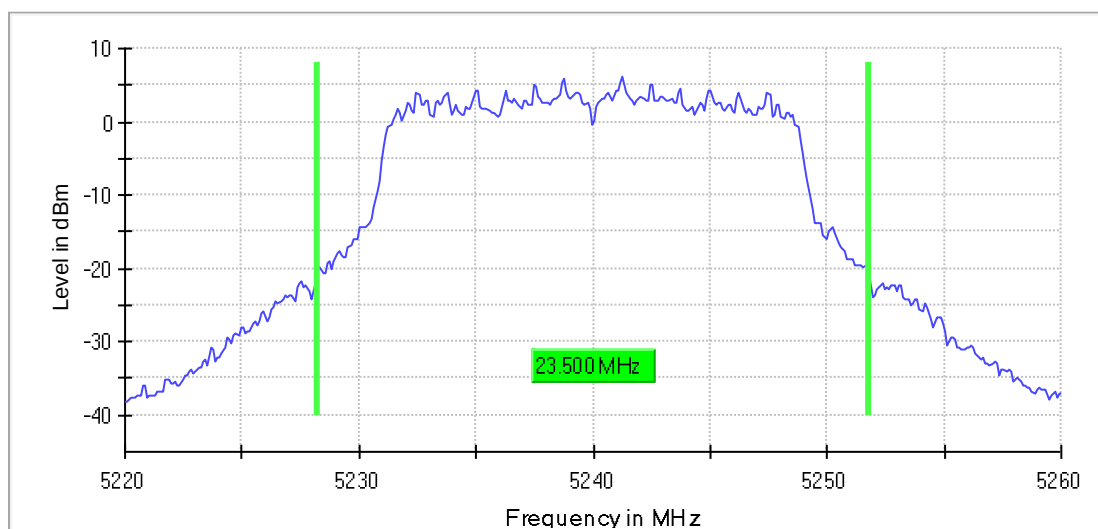


## Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.76500 GHz      | 5.76500 GHz        |
| Stop Frequency        | 5.80500 GHz      | 5.80500 GHz        |
| Span                  | 40.000 MHz       | 40.000 MHz         |
| RBW                   | 200.000 kHz      | $\geq 200.000$ kHz |
| VBW                   | 1.000 MHz        | $\geq 600.000$ kHz |
| SweepPoints           | 400              | ~ 400              |
| Sweptime              | 47.266 $\mu$ s   | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | FFT              | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 38 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.08 dB          | 0.30 dB            |

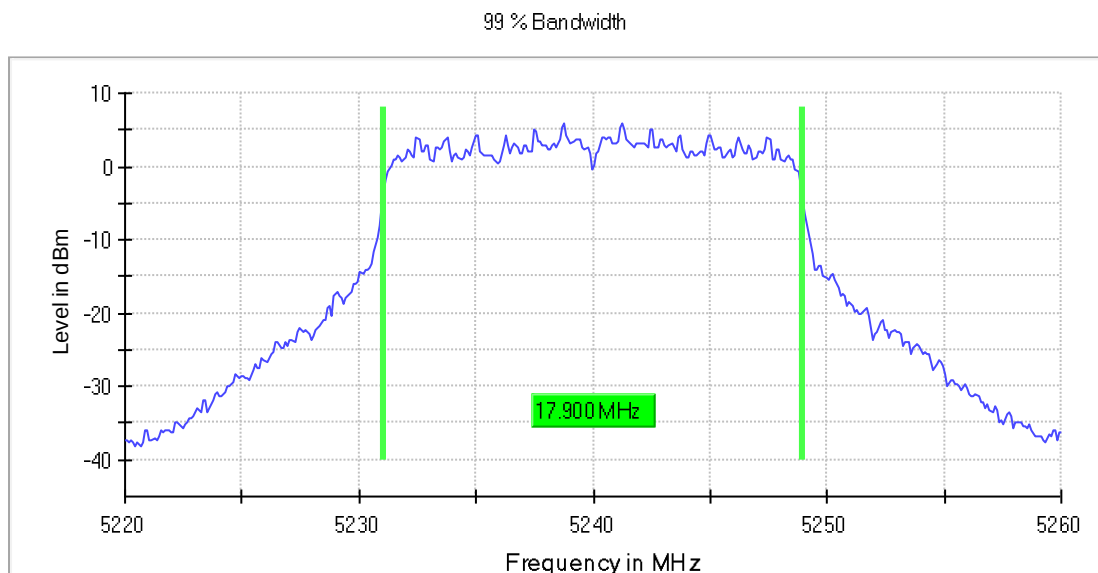
802.11n-HT20

26 dB Bandwidth



## Measurement

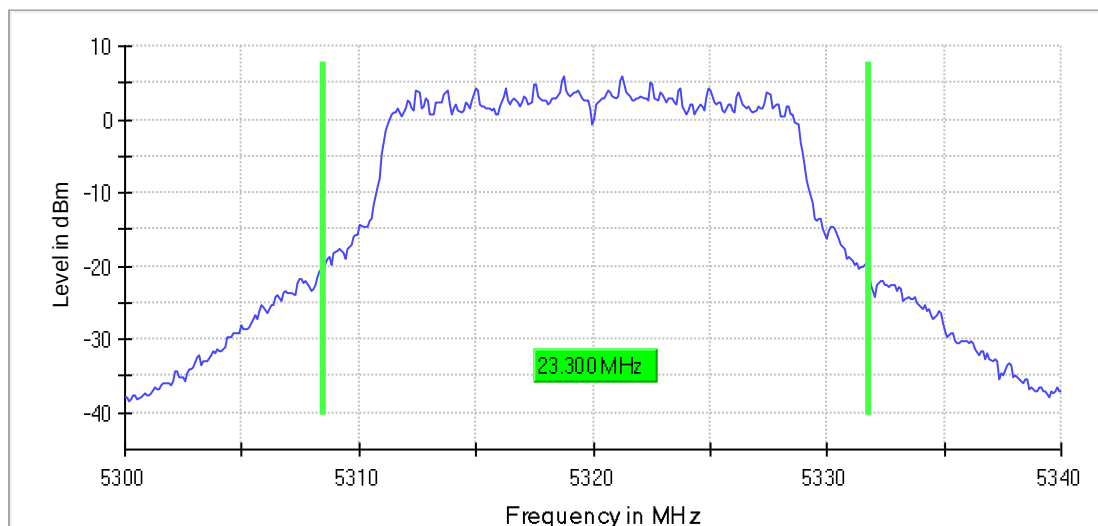
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.22000 GHz      | 5.22000 GHz    |
| Stop Frequency        | 5.26000 GHz      | 5.26000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 39 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.00 dB          | 0.30 dB        |



## Measurement

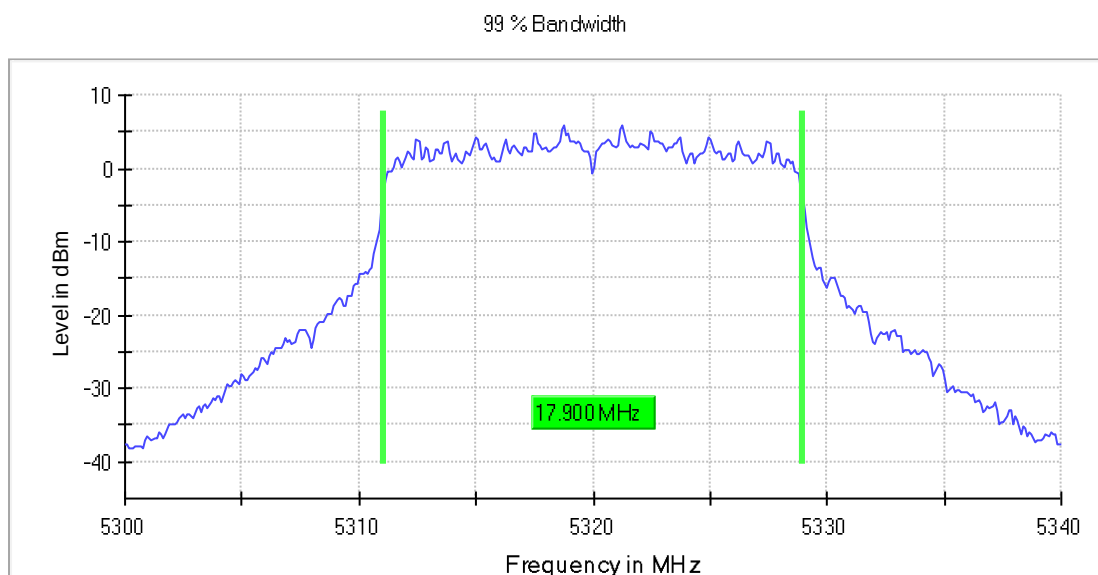
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.22000 GHz      | 5.22000 GHz    |
| Stop Frequency        | 5.26000 GHz      | 5.26000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 41 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.07 dB          | 0.30 dB        |

26 dB Bandwidth



## Measurement

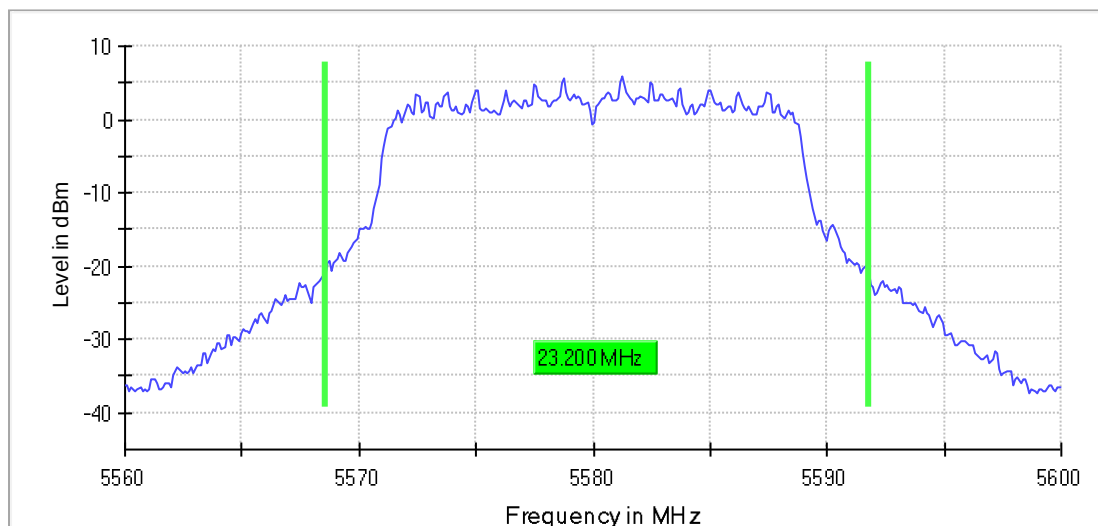
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.30000 GHz      | 5.30000 GHz    |
| Stop Frequency        | 5.34000 GHz      | 5.34000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 49 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.28 dB          | 0.30 dB        |



## Measurement

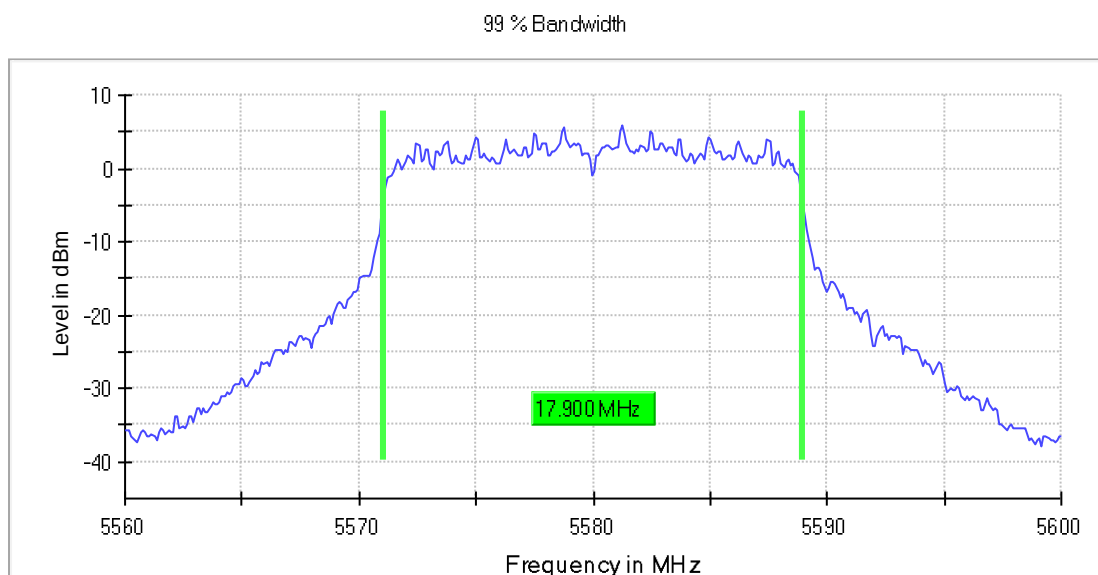
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.30000 GHz      | 5.30000 GHz    |
| Stop Frequency        | 5.34000 GHz      | 5.34000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 57 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.14 dB          | 0.30 dB        |

26 dB Bandwidth



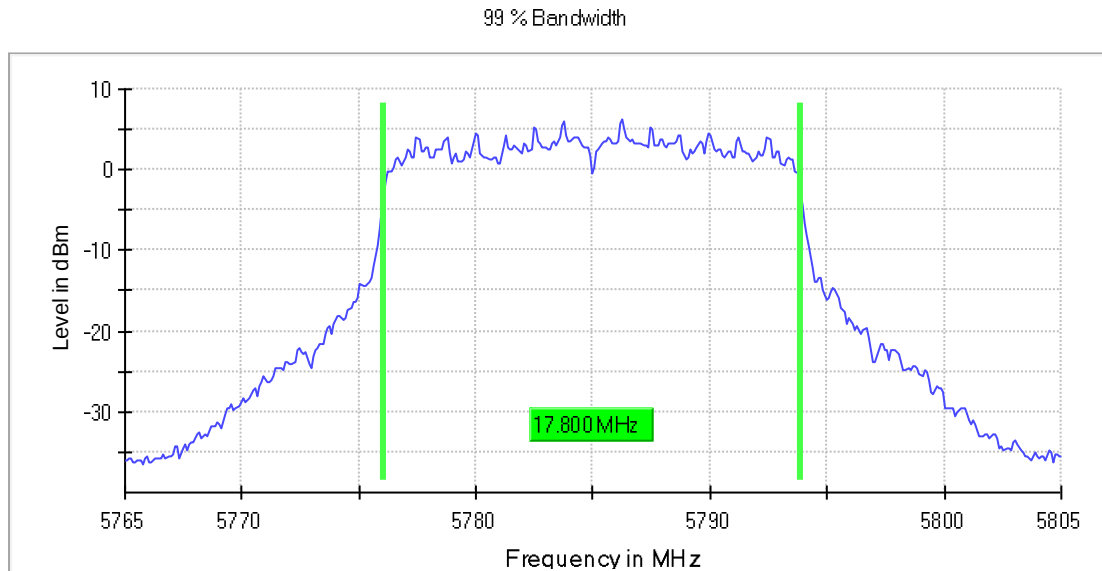
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.56000 GHz      | 5.56000 GHz    |
| Stop Frequency        | 5.60000 GHz      | 5.60000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 43 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.05 dB          | 0.30 dB        |



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.56000 GHz      | 5.56000 GHz    |
| Stop Frequency        | 5.60000 GHz      | 5.60000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 34 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.17 dB          | 0.30 dB        |

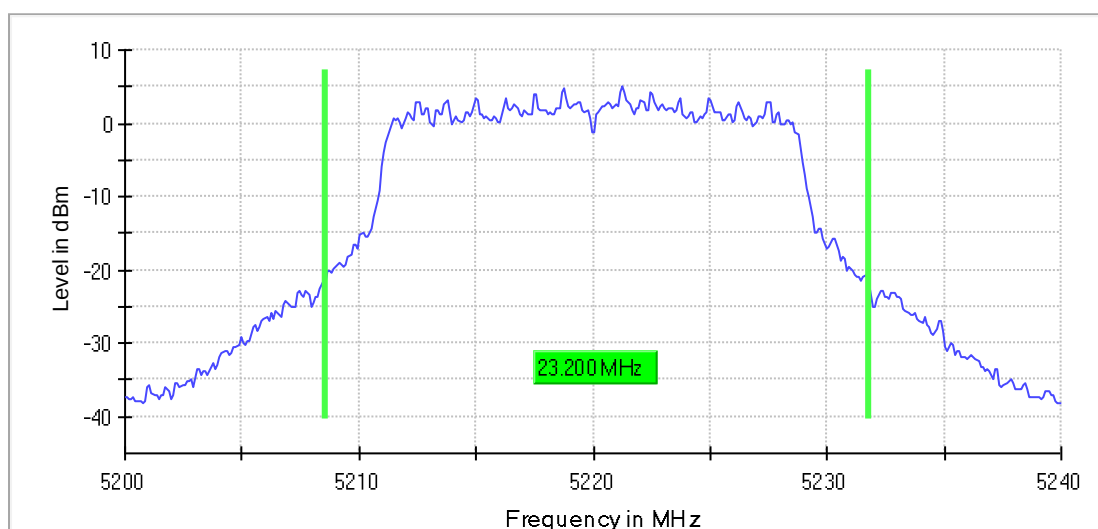


## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.76500 GHz      | 5.76500 GHz    |
| Stop Frequency        | 5.80500 GHz      | 5.80500 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 44 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.21 dB          | 0.30 dB        |

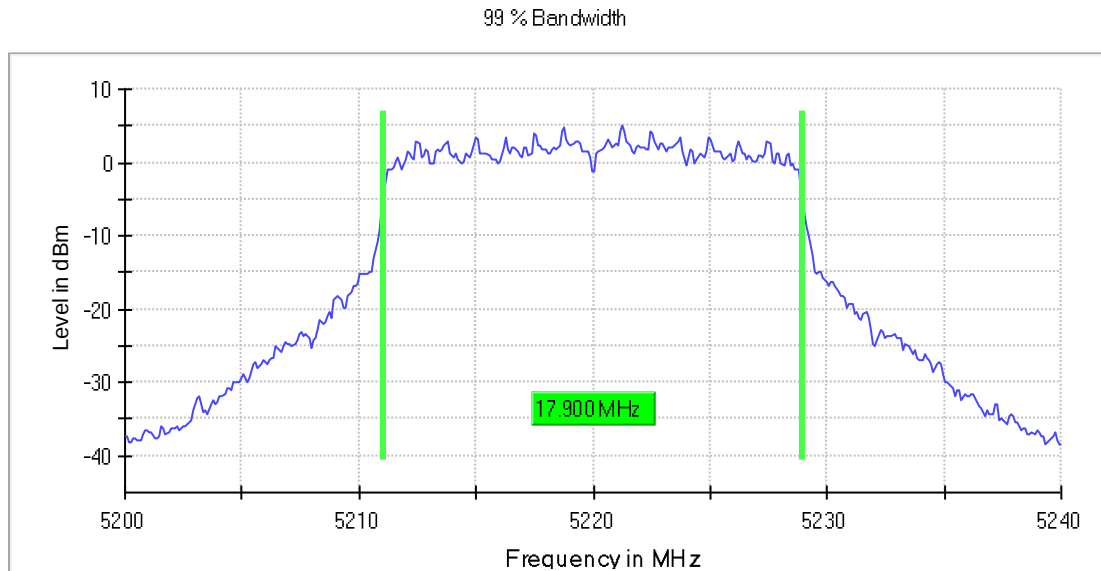
802.11ac20

26 dB Bandwidth



## Measurement

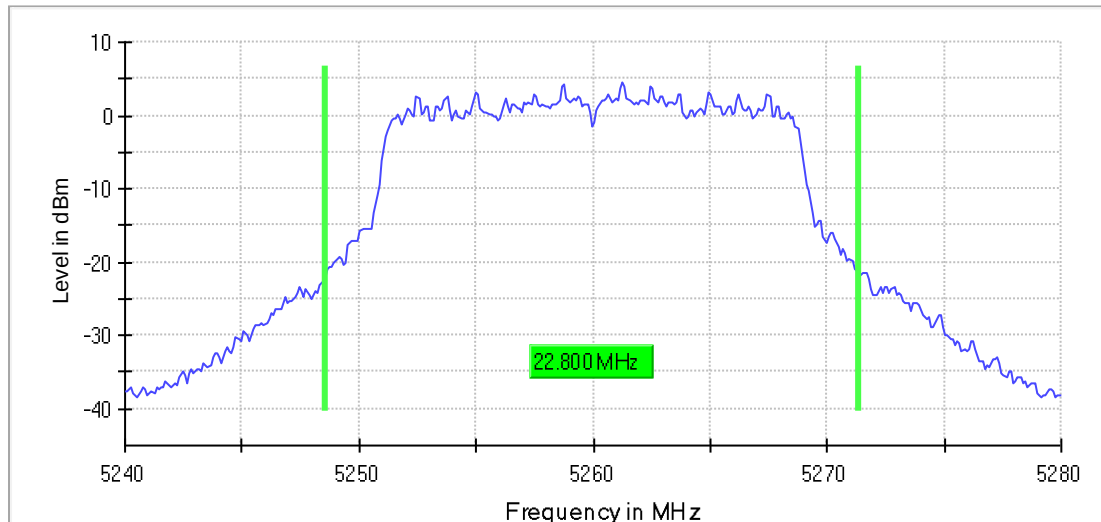
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.20000 GHz      | 5.20000 GHz    |
| Stop Frequency        | 5.24000 GHz      | 5.24000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| Sweeptype             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 33 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.17 dB          | 0.30 dB        |



## Measurement

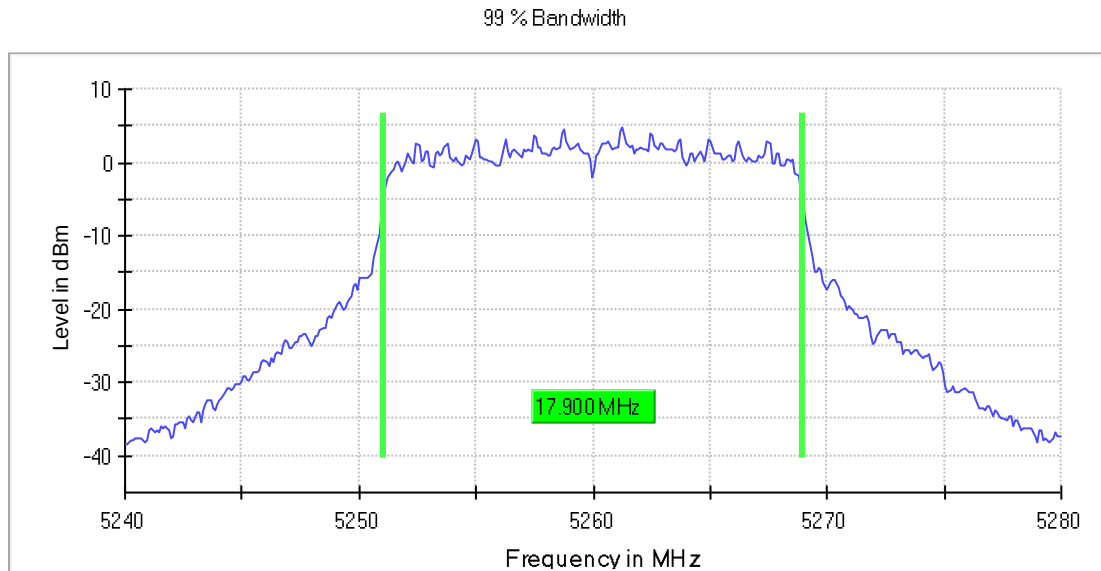
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.20000 GHz      | 5.20000 GHz    |
| Stop Frequency        | 5.24000 GHz      | 5.24000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 38 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.06 dB          | 0.30 dB        |

26 dB Bandwidth



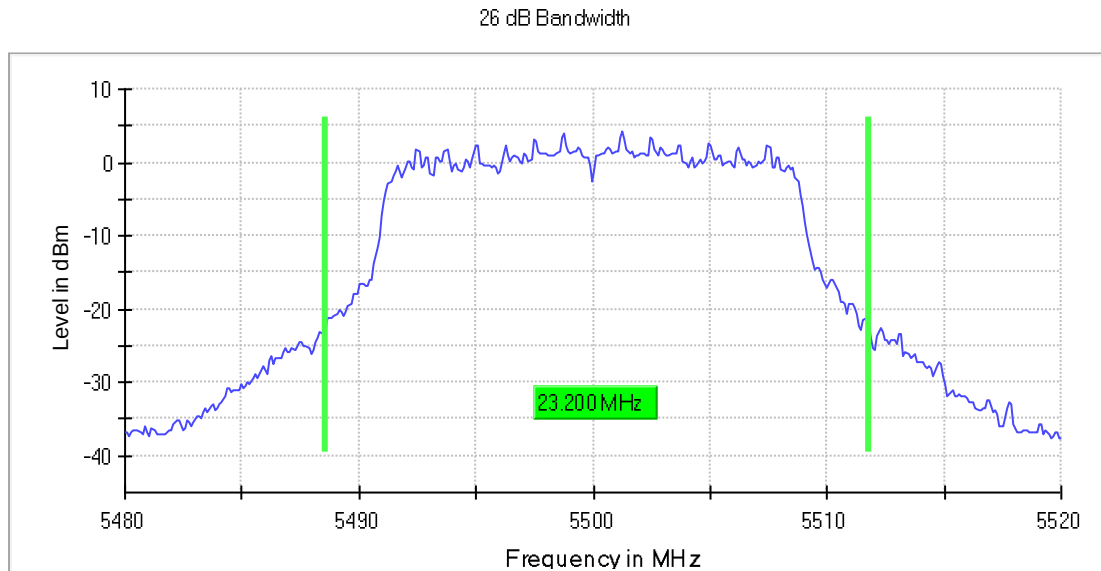
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.24000 GHz      | 5.24000 GHz    |
| Stop Frequency        | 5.28000 GHz      | 5.28000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 23 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.12 dB          | 0.30 dB        |



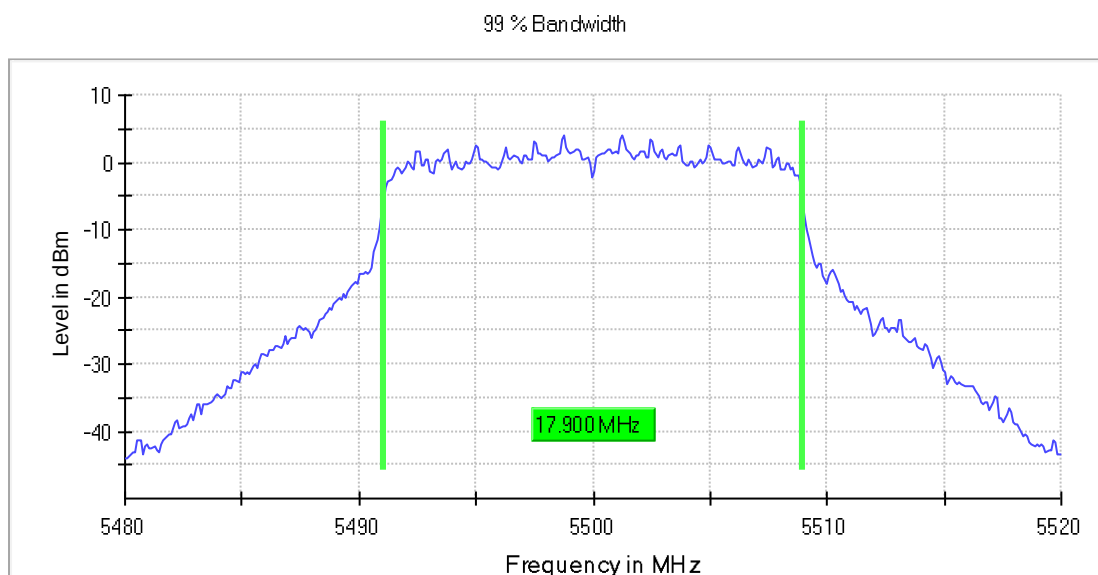
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.24000 GHz      | 5.24000 GHz    |
| Stop Frequency        | 5.28000 GHz      | 5.28000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 48 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.02 dB          | 0.30 dB        |



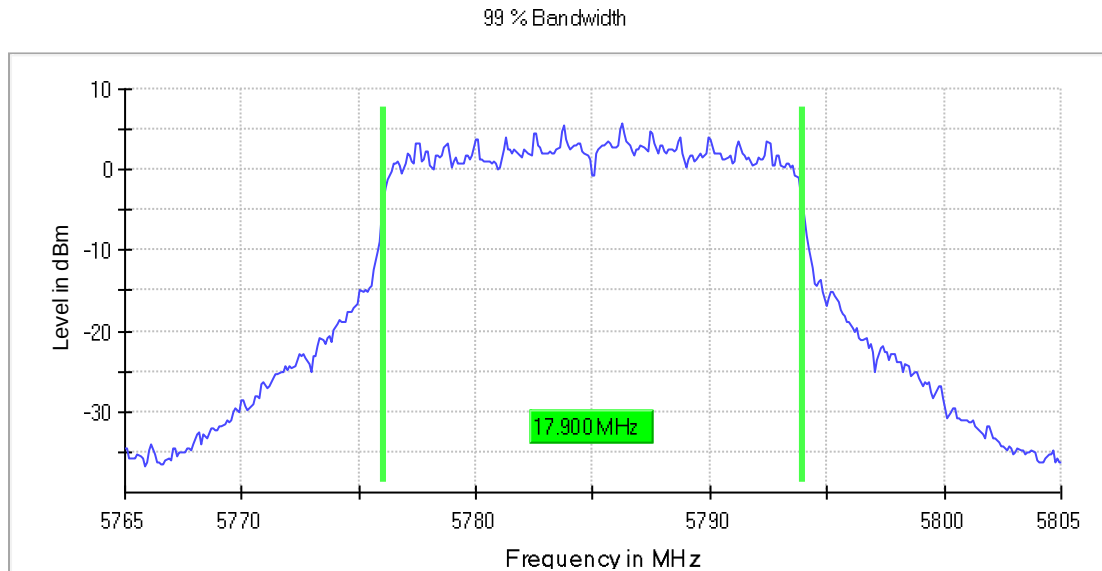
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.48000 GHz      | 5.48000 GHz    |
| Stop Frequency        | 5.52000 GHz      | 5.52000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | ~ 200.000 kHz  |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 $\mu$ s   | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 42 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.13 dB          | 0.30 dB        |



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.48000 GHz      | 5.48000 GHz    |
| Stop Frequency        | 5.52000 GHz      | 5.52000 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| SweepTime             | 47.266 µs        | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 46 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.18 dB          | 0.30 dB        |

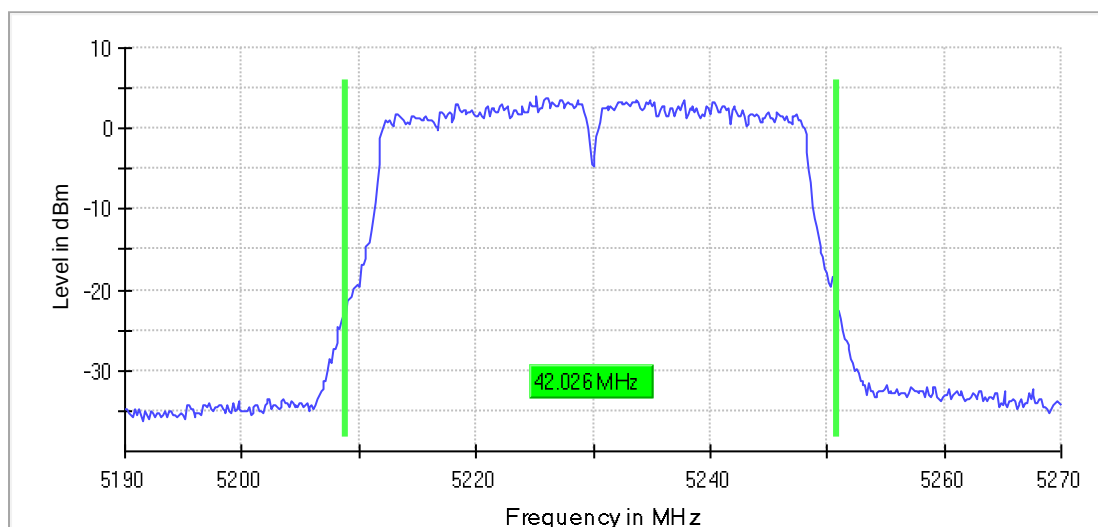


## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.76500 GHz      | 5.76500 GHz    |
| Stop Frequency        | 5.80500 GHz      | 5.80500 GHz    |
| Span                  | 40.000 MHz       | 40.000 MHz     |
| RBW                   | 200.000 kHz      | >= 200.000 kHz |
| VBW                   | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 47.266 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 55 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.07 dB          | 0.30 dB        |

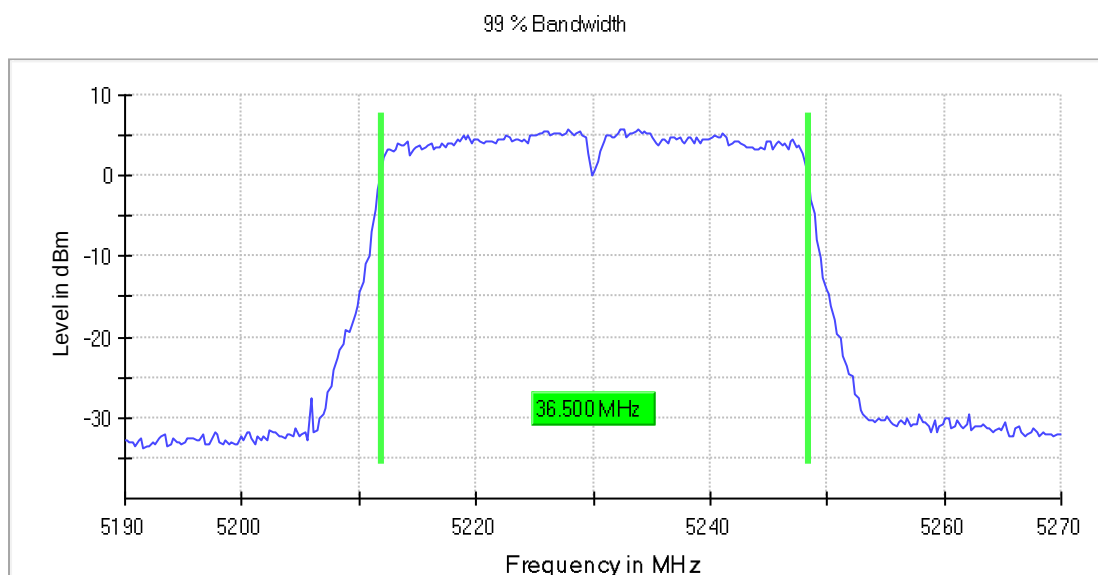
802.11n-HT40

26 dB Bandwidth



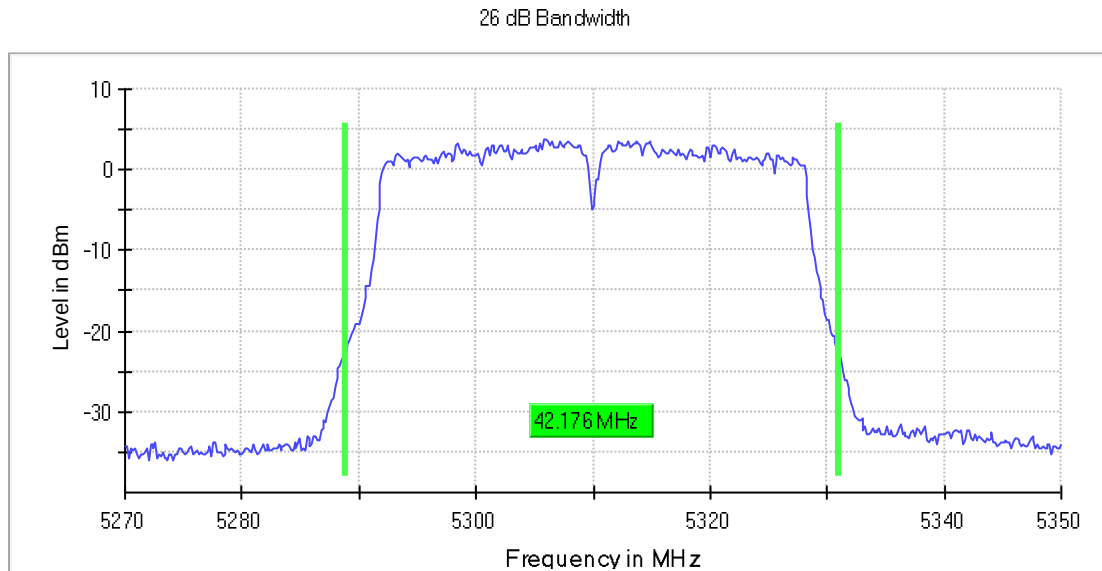
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.19000 GHz      | 5.19000 GHz    |
| Stop Frequency        | 5.27000 GHz      | 5.27000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 300.000 kHz      | ~ 400.000 kHz  |
| VBW                   | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints           | 533              | ~ 533          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 101 / max. 150   | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.27 dB          | 0.30 dB        |



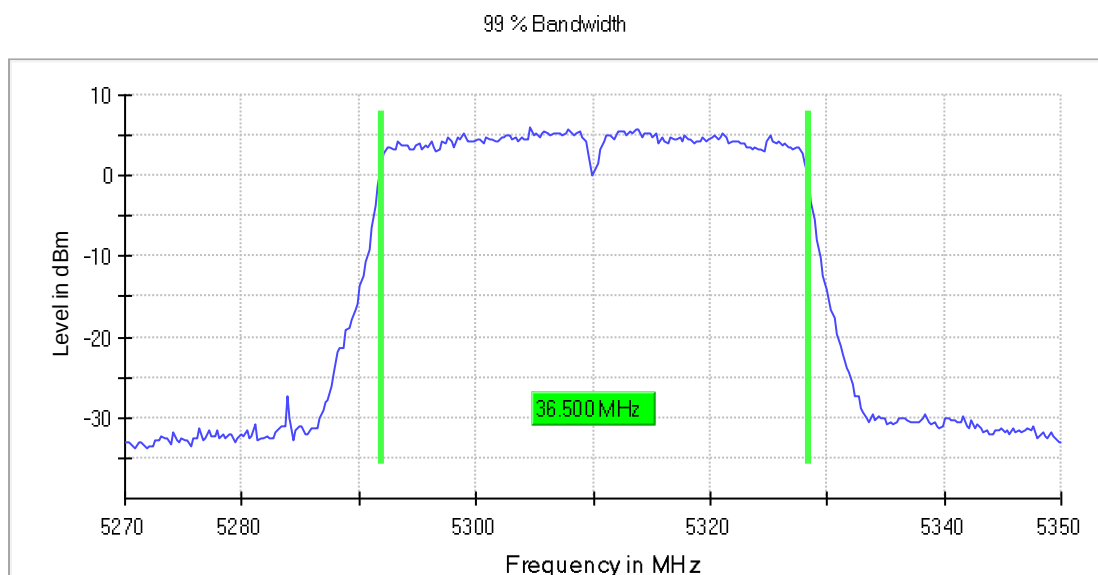
## Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.19000 GHz      | 5.19000 GHz        |
| Stop Frequency        | 5.27000 GHz      | 5.27000 GHz        |
| Span                  | 80.000 MHz       | 80.000 MHz         |
| RBW                   | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW                   | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints           | 320              | ~ 320              |
| Sweptime              | 1.000 ms         | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 44 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.03 dB          | 0.30 dB            |



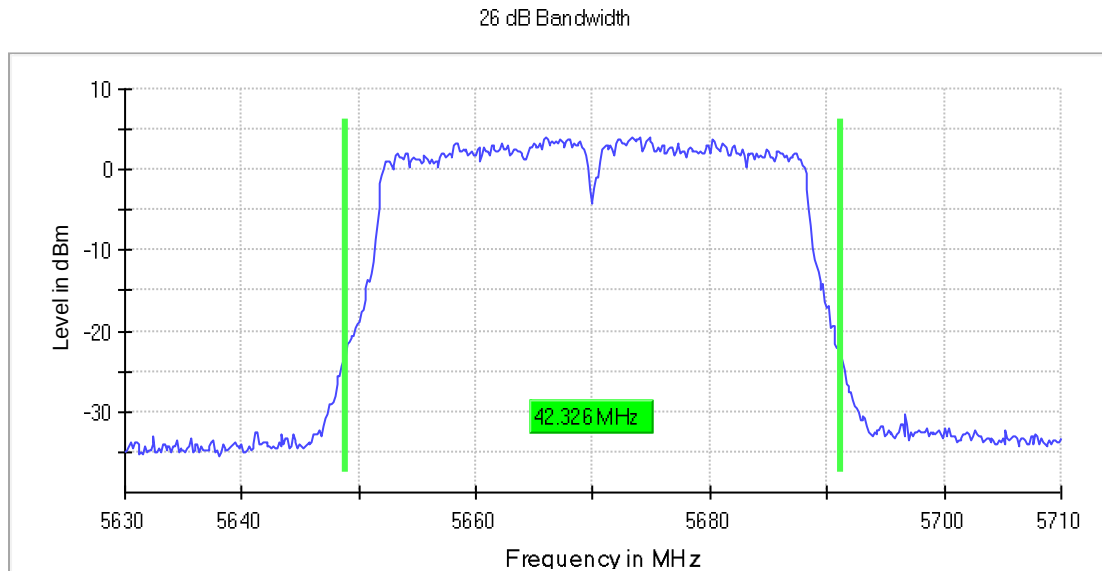
## Measurement

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 5.27000 GHz      | 5.27000 GHz    |
| Stop Frequency  | 5.35000 GHz      | 5.35000 GHz    |
| Span            | 80.000 MHz       | 80.000 MHz     |
| RBW             | 300.000 kHz      | ~ 400.000 kHz  |
| VBW             | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints     | 533              | ~ 533          |
| SweepTime       | 1.000 ms         | AUTO           |
| Reference Level | 10.000 dBm       | 10.000 dBm     |
| Attenuation     | 30.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 200              | 200            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Max Hold         | Max Hold       |
| SweepType       | Sweep            | AUTO           |
| Preamp          | off              | off            |
| Stablemode      | Trace            | Trace          |
| Stablevalue     | 0.30 dB          | 0.30 dB        |
| Run             | 87 / max. 150    | max. 150       |
| Stable          | 5 / 5            | 5              |



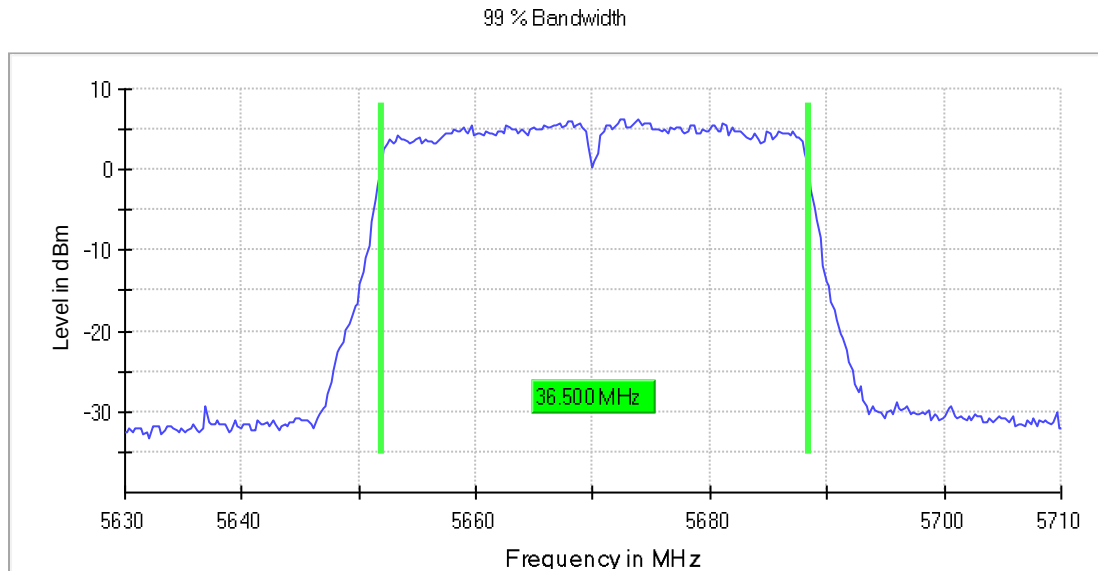
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.27000 GHz      | 5.27000 GHz    |
| Stop Frequency        | 5.35000 GHz      | 5.35000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 500.000 kHz      | >= 400.000 kHz |
| VBW                   | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints           | 320              | ~ 320          |
| Sweptime              | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 42 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.04 dB          | 0.30 dB        |



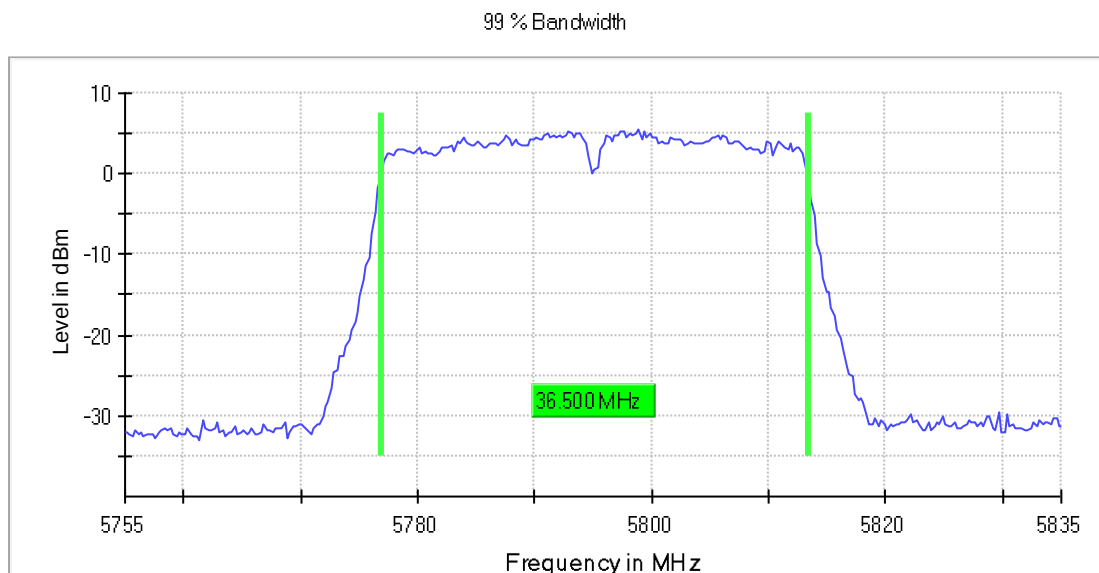
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.63000 GHz      | 5.63000 GHz    |
| Stop Frequency        | 5.71000 GHz      | 5.71000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 300.000 kHz      | ~ 400.000 kHz  |
| VBW                   | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints           | 533              | ~ 533          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 82 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.28 dB          | 0.30 dB        |



## Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.63000 GHz      | 5.63000 GHz        |
| Stop Frequency        | 5.71000 GHz      | 5.71000 GHz        |
| Span                  | 80.000 MHz       | 80.000 MHz         |
| RBW                   | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW                   | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints           | 320              | $\sim 320$         |
| SweepTime             | 1.000 ms         | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 56 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.20 dB          | 0.30 dB            |

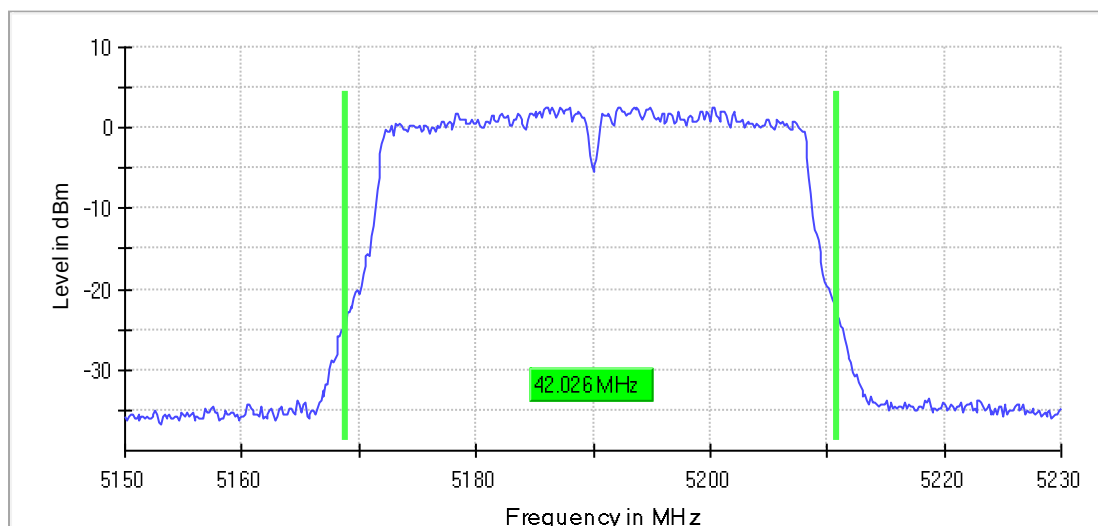


## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.75500 GHz      | 5.75500 GHz    |
| Stop Frequency        | 5.83500 GHz      | 5.83500 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 500.000 kHz      | >= 400.000 kHz |
| VBW                   | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints           | 320              | ~ 320          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 25 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.06 dB          | 0.30 dB        |

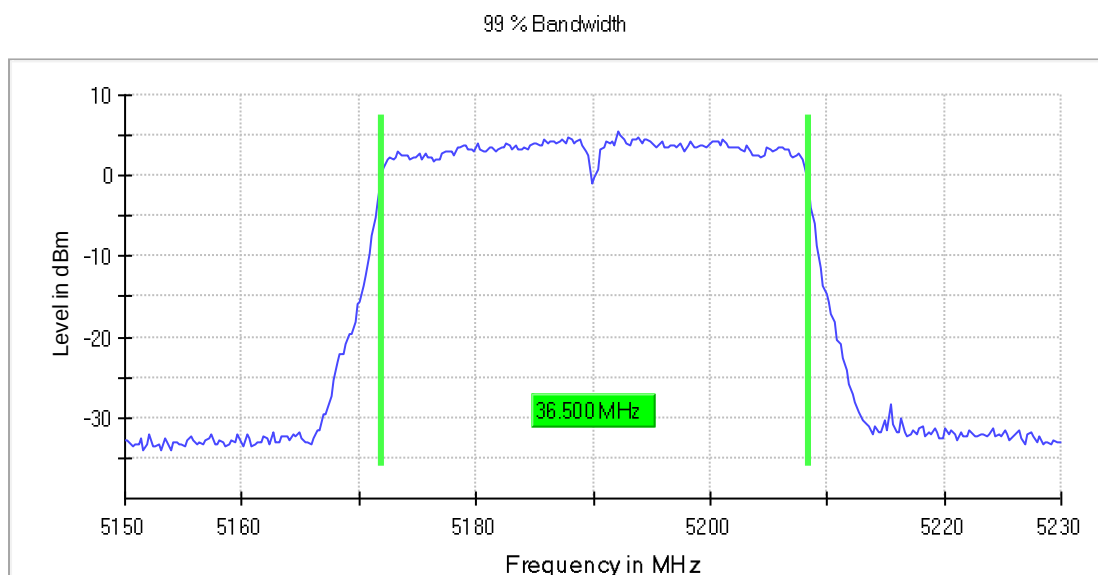
802.11ac40

26 dB Bandwidth



## Measurement

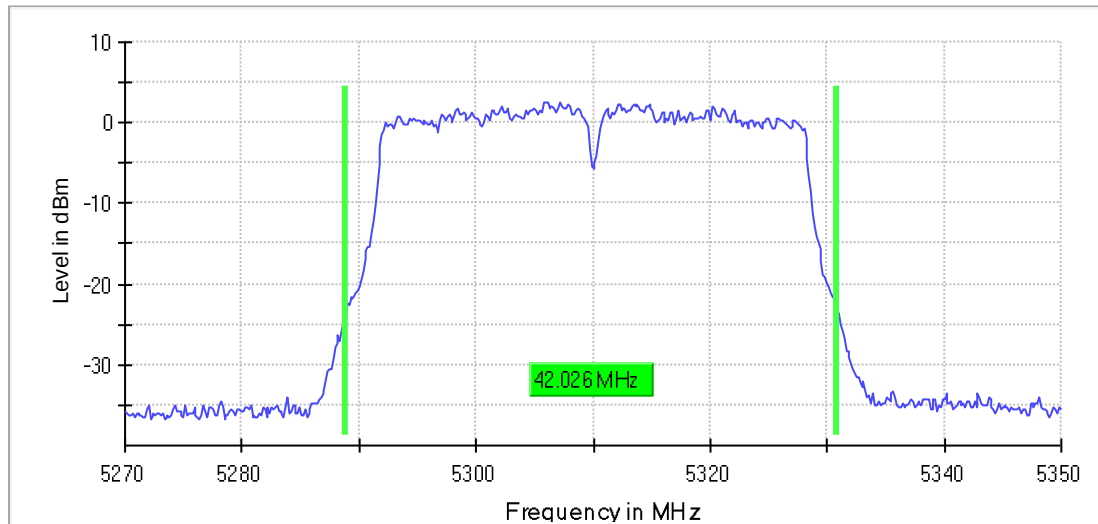
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.15000 GHz      | 5.15000 GHz    |
| Stop Frequency        | 5.23000 GHz      | 5.23000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 300.000 kHz      | ~ 400.000 kHz  |
| VBW                   | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints           | 533              | ~ 533          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 66 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.13 dB          | 0.30 dB        |



## Measurement

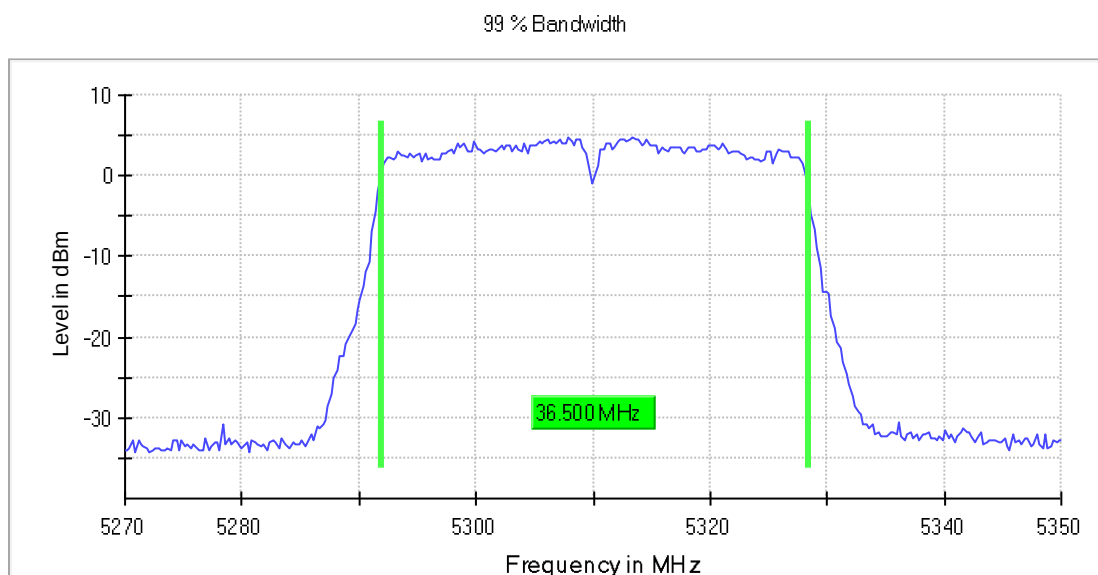
| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.15000 GHz      | 5.15000 GHz        |
| Stop Frequency        | 5.23000 GHz      | 5.23000 GHz        |
| Span                  | 80.000 MHz       | 80.000 MHz         |
| RBW                   | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW                   | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints           | 320              | $\sim 320$         |
| SweepTime             | 1.000 ms         | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 54 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.13 dB          | 0.30 dB            |

26 dB Bandwidth



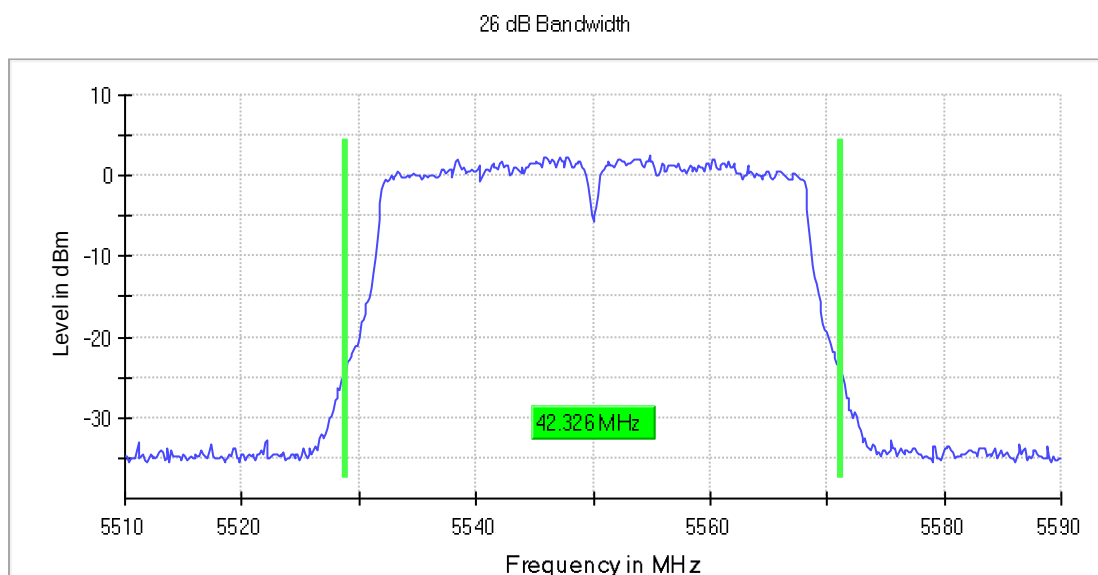
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.27000 GHz      | 5.27000 GHz    |
| Stop Frequency        | 5.35000 GHz      | 5.35000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 300.000 kHz      | ~ 400.000 kHz  |
| VBW                   | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints           | 533              | ~ 533          |
| Sweeptime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 40 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.26 dB          | 0.30 dB        |



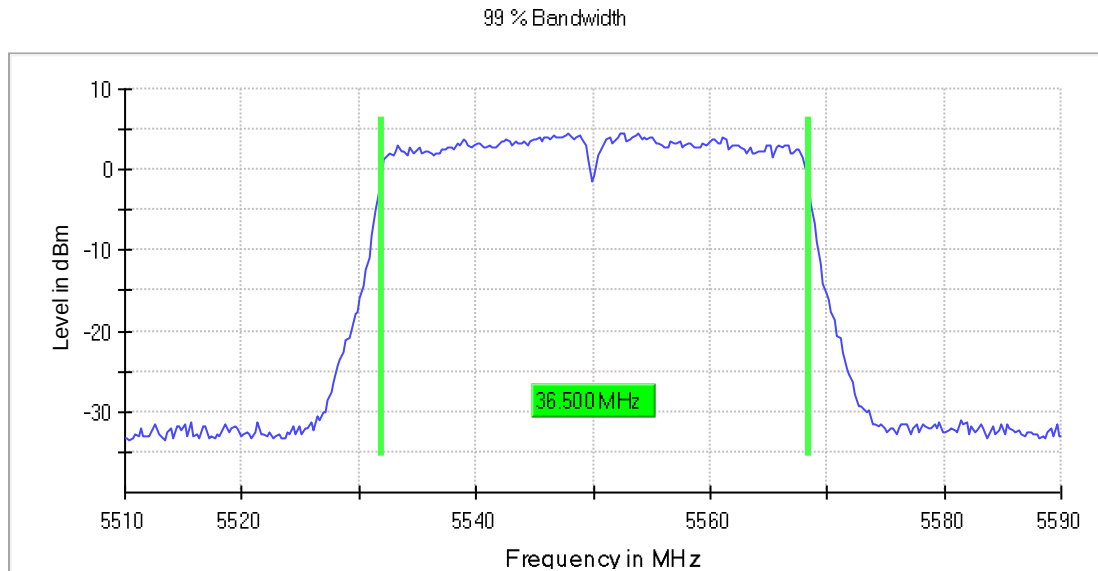
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.27000 GHz      | 5.27000 GHz    |
| Stop Frequency        | 5.35000 GHz      | 5.35000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 500.000 kHz      | >= 400.000 kHz |
| VBW                   | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints           | 320              | ~ 320          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 29 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.23 dB          | 0.30 dB        |



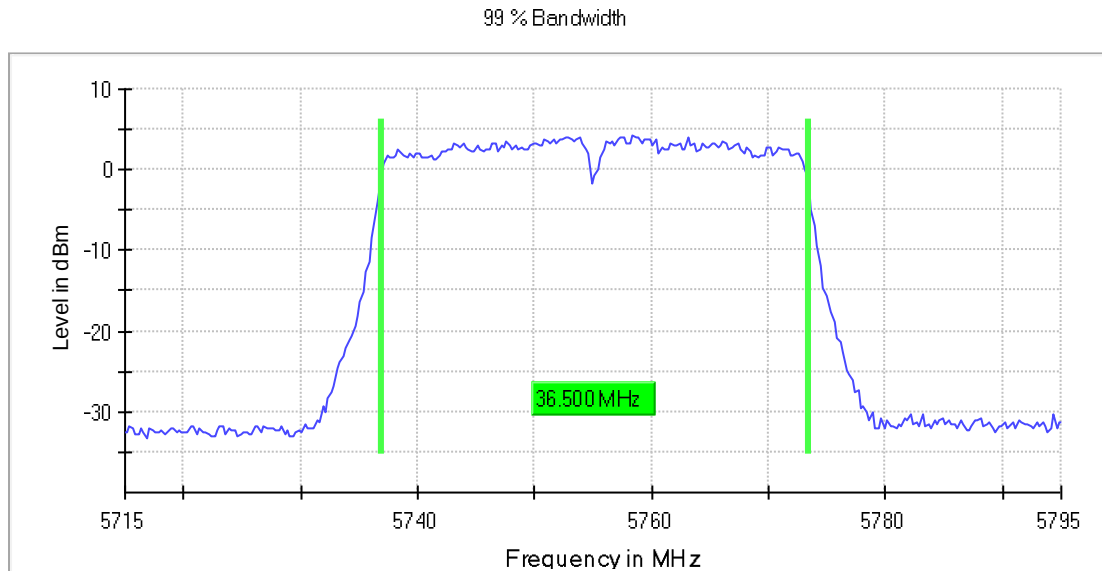
## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.51000 GHz      | 5.51000 GHz    |
| Stop Frequency        | 5.59000 GHz      | 5.59000 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 300.000 kHz      | ~ 400.000 kHz  |
| VBW                   | 1.000 MHz        | >= 900.000 kHz |
| SweepPoints           | 533              | ~ 533          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 101 / max. 150   | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.15 dB          | 0.30 dB        |



## Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.51000 GHz      | 5.51000 GHz        |
| Stop Frequency        | 5.59000 GHz      | 5.59000 GHz        |
| Span                  | 80.000 MHz       | 80.000 MHz         |
| RBW                   | 500.000 kHz      | $\geq 400.000$ kHz |
| VBW                   | 2.000 MHz        | $\geq 1.500$ MHz   |
| SweepPoints           | 320              | ~ 320              |
| Sweeptime             | 1.000 ms         | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 28 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.16 dB          | 0.30 dB            |

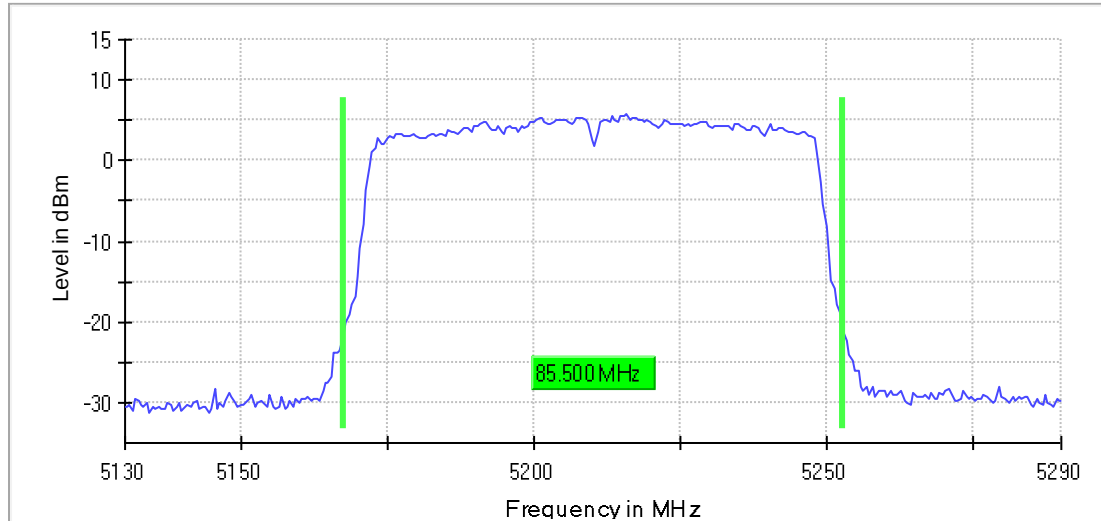


## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.71500 GHz      | 5.71500 GHz    |
| Stop Frequency        | 5.79500 GHz      | 5.79500 GHz    |
| Span                  | 80.000 MHz       | 80.000 MHz     |
| RBW                   | 500.000 kHz      | >= 400.000 kHz |
| VBW                   | 2.000 MHz        | >= 1.500 MHz   |
| SweepPoints           | 320              | ~ 320          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 40 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.14 dB          | 0.30 dB        |

802.11ac80

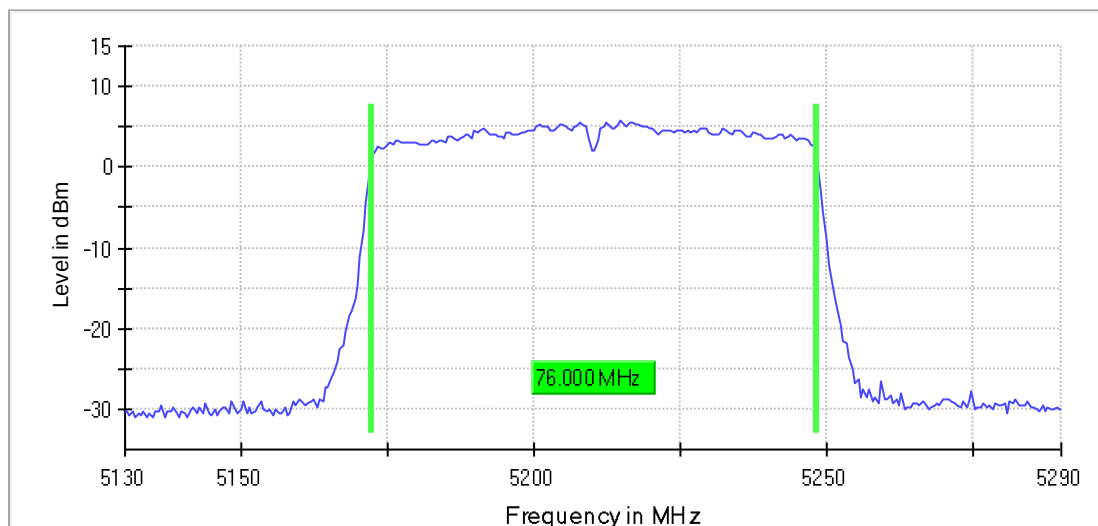
26 dB Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.13000 GHz      | 5.13000 GHz   |
| Stop Frequency        | 5.29000 GHz      | 5.29000 GHz   |
| Span                  | 160.000 MHz      | 160.000 MHz   |
| RBW                   | 1.000 MHz        | ~ 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints           | 320              | ~ 320         |
| SweepTime             | 1.000 ms         | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | Sweep            | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 35 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.18 dB          | 0.30 dB       |

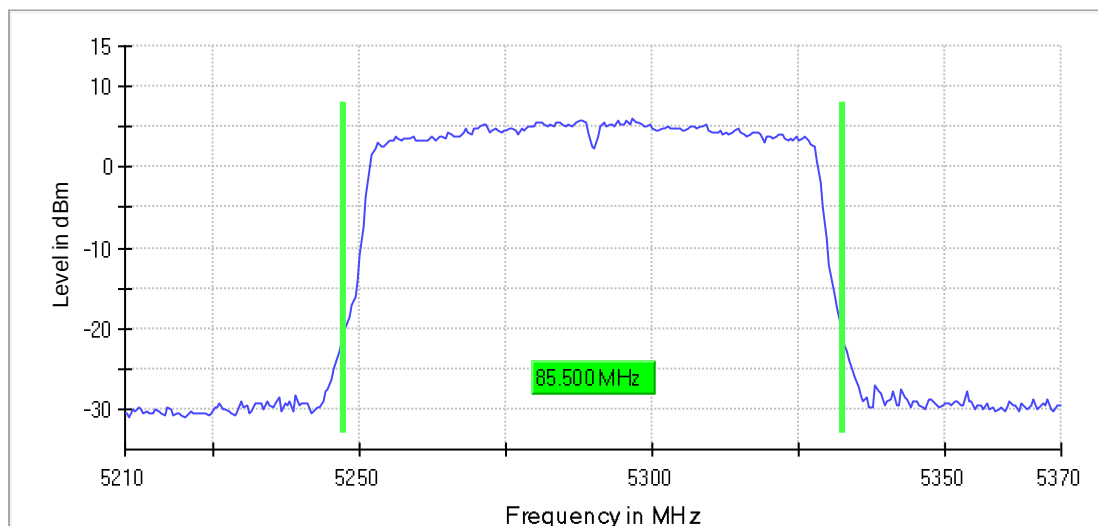
99 % Bandwidth



## Measurement

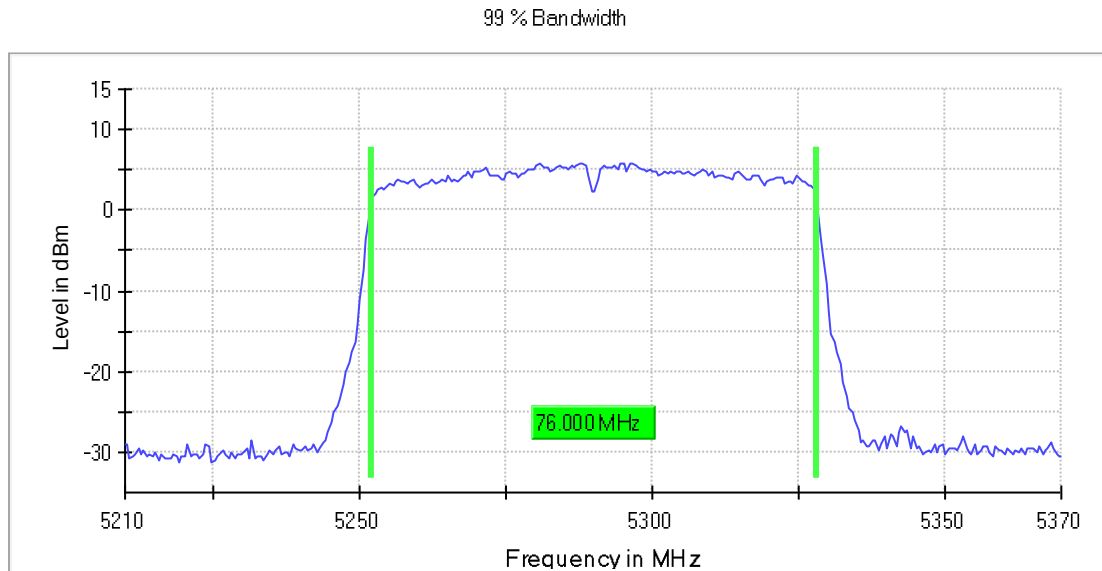
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.13000 GHz      | 5.13000 GHz    |
| Stop Frequency        | 5.29000 GHz      | 5.29000 GHz    |
| Span                  | 160.000 MHz      | 160.000 MHz    |
| RBW                   | 1.000 MHz        | >= 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz   |
| SweepPoints           | 320              | ~ 320          |
| Sweeptime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 46 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.01 dB          | 0.30 dB        |

26 dB Bandwidth



## Measurement

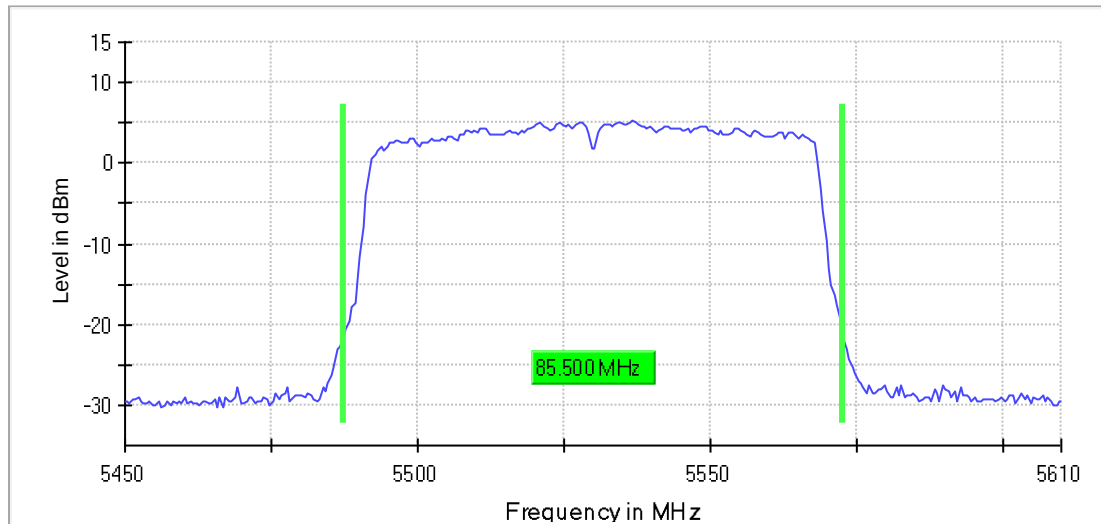
| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.21000 GHz      | 5.21000 GHz   |
| Stop Frequency        | 5.37000 GHz      | 5.37000 GHz   |
| Span                  | 160.000 MHz      | 160.000 MHz   |
| RBW                   | 1.000 MHz        | ~ 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints           | 320              | ~ 320         |
| Sweptime              | 1.000 ms         | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | Sweep            | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 37 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.24 dB          | 0.30 dB       |



## Measurement

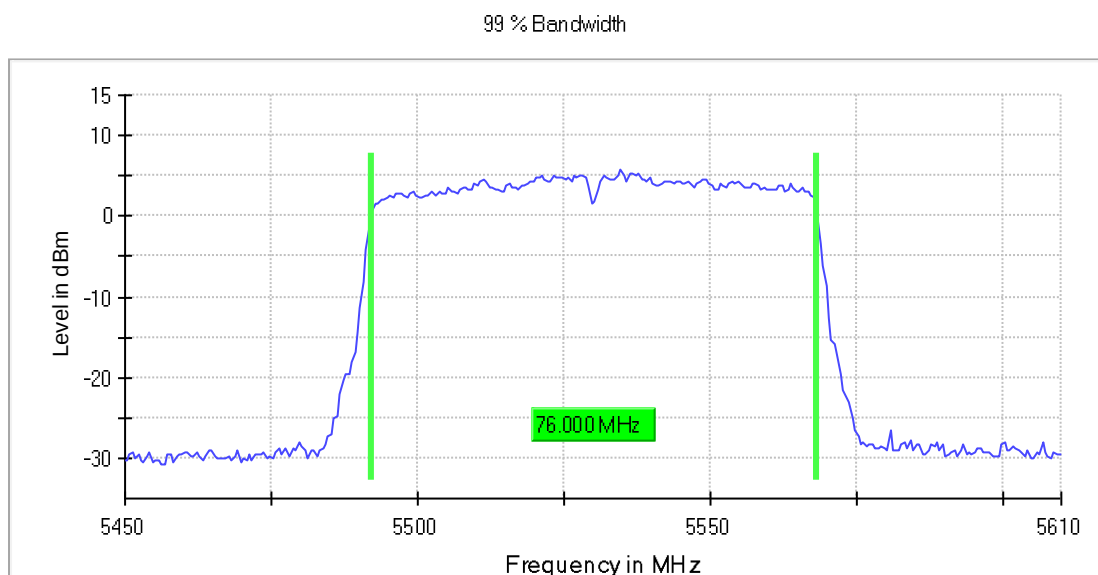
| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.21000 GHz      | 5.21000 GHz    |
| Stop Frequency        | 5.37000 GHz      | 5.37000 GHz    |
| Span                  | 160.000 MHz      | 160.000 MHz    |
| RBW                   | 1.000 MHz        | >= 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz   |
| SweepPoints           | 320              | ~ 320          |
| Sweptime              | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 25 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.21 dB          | 0.30 dB        |

26 dB Bandwidth



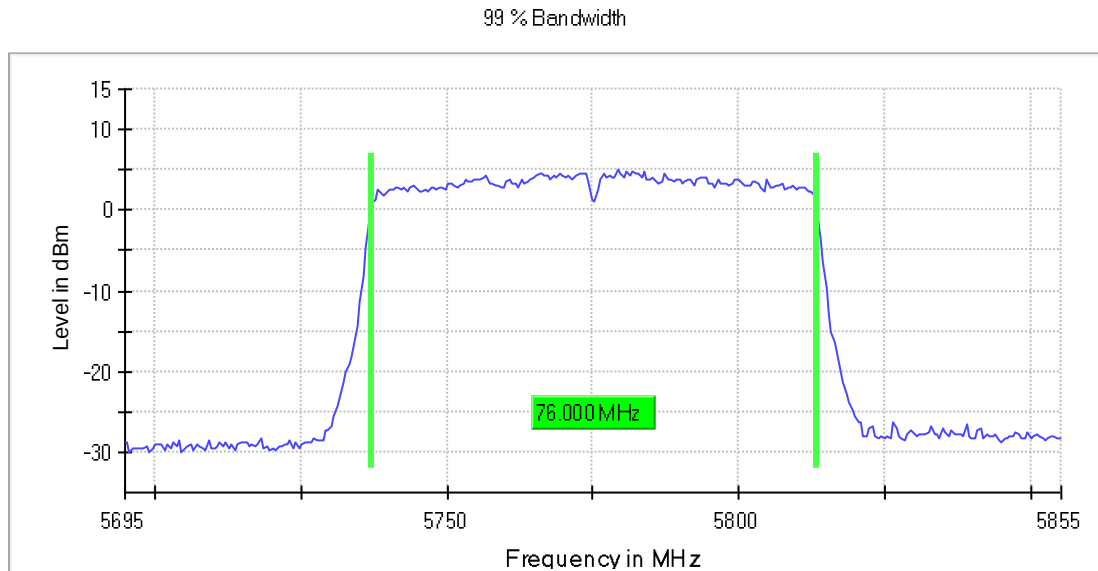
## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.45000 GHz      | 5.45000 GHz   |
| Stop Frequency        | 5.61000 GHz      | 5.61000 GHz   |
| Span                  | 160.000 MHz      | 160.000 MHz   |
| RBW                   | 1.000 MHz        | ~ 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints           | 320              | ~ 320         |
| Sweeptime             | 1.000 ms         | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | Sweep            | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 48 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.00 dB          | 0.30 dB       |



## Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 5.45000 GHz      | 5.45000 GHz        |
| Stop Frequency        | 5.61000 GHz      | 5.61000 GHz        |
| Span                  | 160.000 MHz      | 160.000 MHz        |
| RBW                   | 1.000 MHz        | $\geq 800.000$ kHz |
| VBW                   | 3.000 MHz        | $\geq 3.000$ MHz   |
| SweepPoints           | 320              | ~ 320              |
| Sweeptime             | 1.000 ms         | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.30 dB          | 0.30 dB            |
| Run                   | 32 / max. 150    | max. 150           |
| Stable                | 5 / 5            | 5                  |
| Max Stable Difference | 0.10 dB          | 0.30 dB            |



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 5.69500 GHz      | 5.69500 GHz    |
| Stop Frequency        | 5.85500 GHz      | 5.85500 GHz    |
| Span                  | 160.000 MHz      | 160.000 MHz    |
| RBW                   | 1.000 MHz        | >= 800.000 kHz |
| VBW                   | 3.000 MHz        | >= 3.000 MHz   |
| SweepPoints           | 320              | ~ 320          |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 44 / max. 150    | max. 150       |
| Stable                | 5 / 5            | 5              |
| Max Stable Difference | 0.10 dB          | 0.30 dB        |

## 2. 6dB Bandwidth

### 2.1 Test Datas

| Channel (mode) | Channel Frequency (MHz) | Emissions bandwidth |
|----------------|-------------------------|---------------------|
|                |                         | 6dB Bandwidth (MHz) |
| 149 (802.11a)  | 5745                    | <b>15.600</b>       |
| 157 (802.11a)  | 5785                    | 15.750              |
| 165 (802.11a)  | 5825                    | 15.750              |

| Channel (mode)     | Channel Frequency (MHz) | Emissions bandwidth |
|--------------------|-------------------------|---------------------|
|                    |                         | 6dB Bandwidth (MHz) |
| 149 (802.11n-HT20) | 5745                    | 16.650              |
| 157 (802.11n-HT20) | 5785                    | 16.650              |
| 165 (802.11n-HT20) | 5825                    | 16.650              |

| Channel (mode)   | Channel Frequency (MHz) | Emissions bandwidth |
|------------------|-------------------------|---------------------|
|                  |                         | 6dB Bandwidth (MHz) |
| 149 (802.11ac20) | 5745                    | 16.900              |
| 157 (802.11ac20) | 5785                    | 16.650              |
| 165 (802.11ac20) | 5825                    | 16.650              |

| Channel (mode)     | Channel Frequency (MHz) | Emissions bandwidth |
|--------------------|-------------------------|---------------------|
|                    |                         | 6dB Bandwidth (MHz) |
| 151 (802.11n-HT40) | 5755                    | 33.450              |
| 159 (802.11n-HT40) | 5795                    | 33.750              |

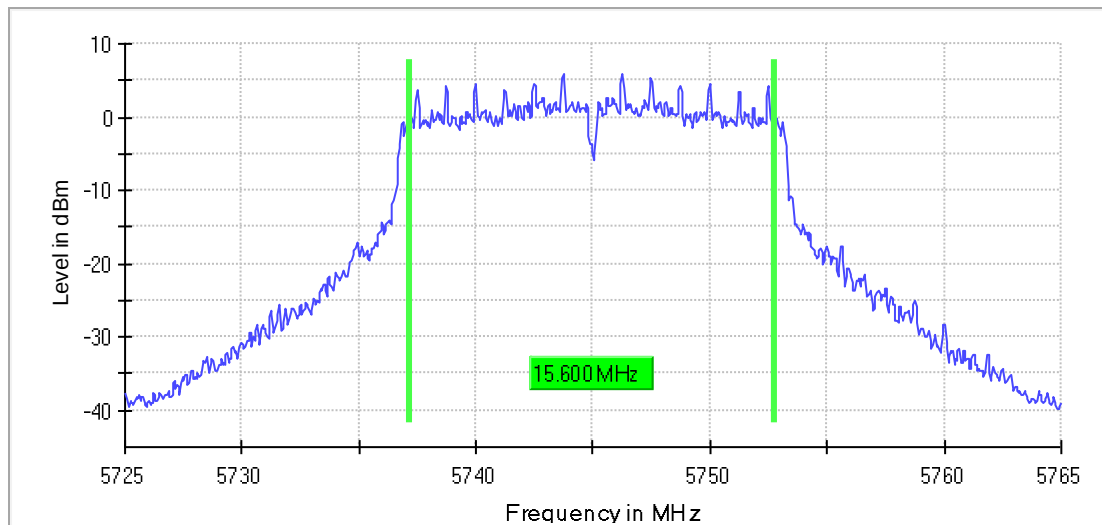
| Channel (mode)   | Channel Frequency (MHz) | Emissions bandwidth |
|------------------|-------------------------|---------------------|
|                  |                         | 6dB Bandwidth (MHz) |
| 151 (802.11ac40) | 5755                    | 35.650              |
| 159 (802.11ac40) | 5795                    | 35.650              |

| Channel (mode)   | Channel Frequency (MHz) | Emissions bandwidth |
|------------------|-------------------------|---------------------|
|                  |                         | 6dB Bandwidth (MHz) |
| 155 (802.11ac80) | 5775                    | 75.200              |

## 2.2 Test Graphs

802.11a

6 dB Bandwidth

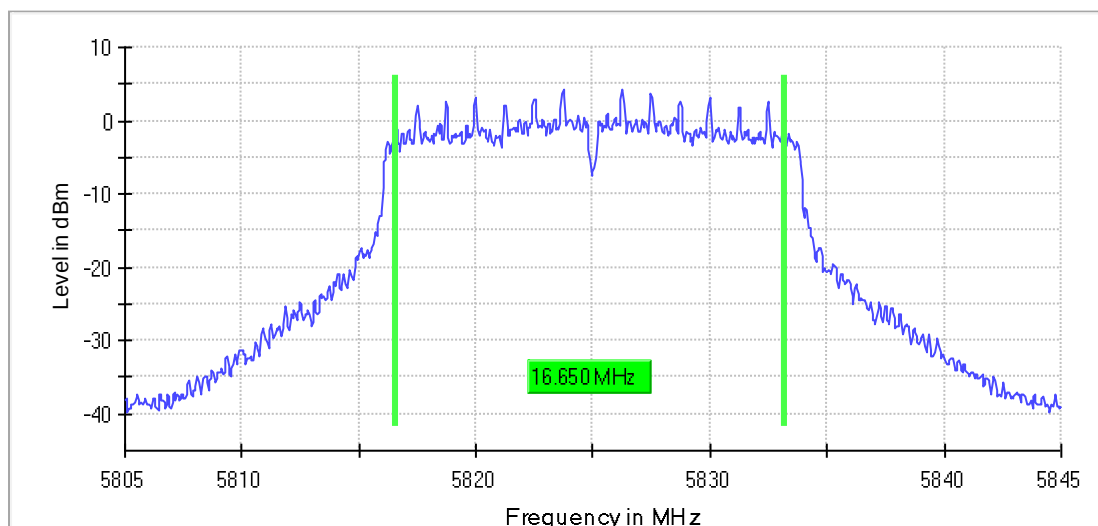


## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.72500 GHz      | 5.72500 GHz   |
| Stop Frequency        | 5.76500 GHz      | 5.76500 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| SweepTime             | 94.922 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 70 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.12 dB          | 0.30 dB       |

802.11n-HT20

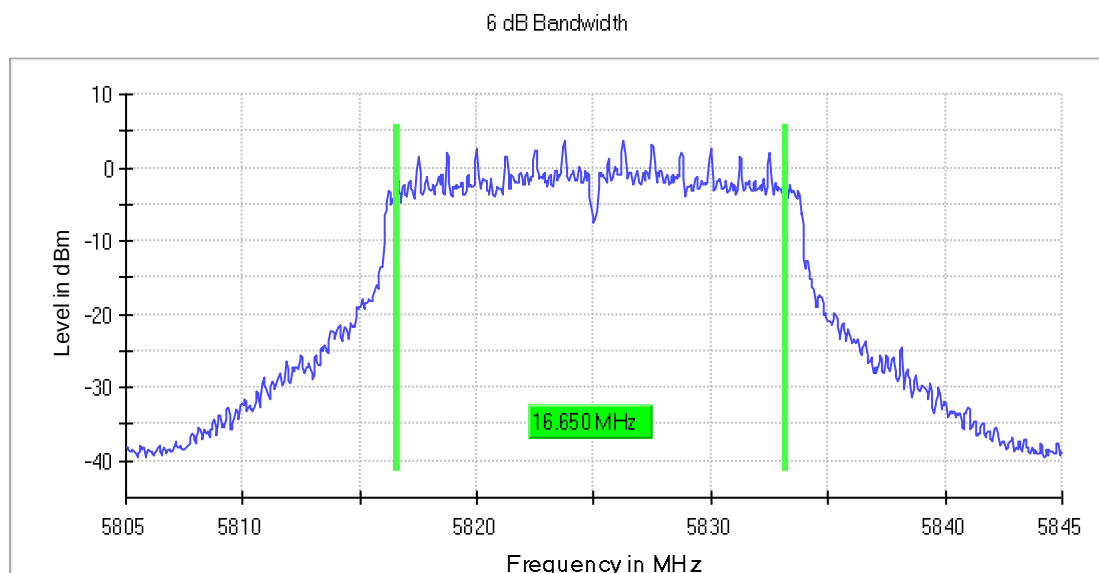
6 dB Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.80500 GHz      | 5.80500 GHz   |
| Stop Frequency        | 5.84500 GHz      | 5.84500 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| Sweeptime             | 94.922 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| Sweeptype             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 66 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.11 dB          | 0.30 dB       |

802.11ac20

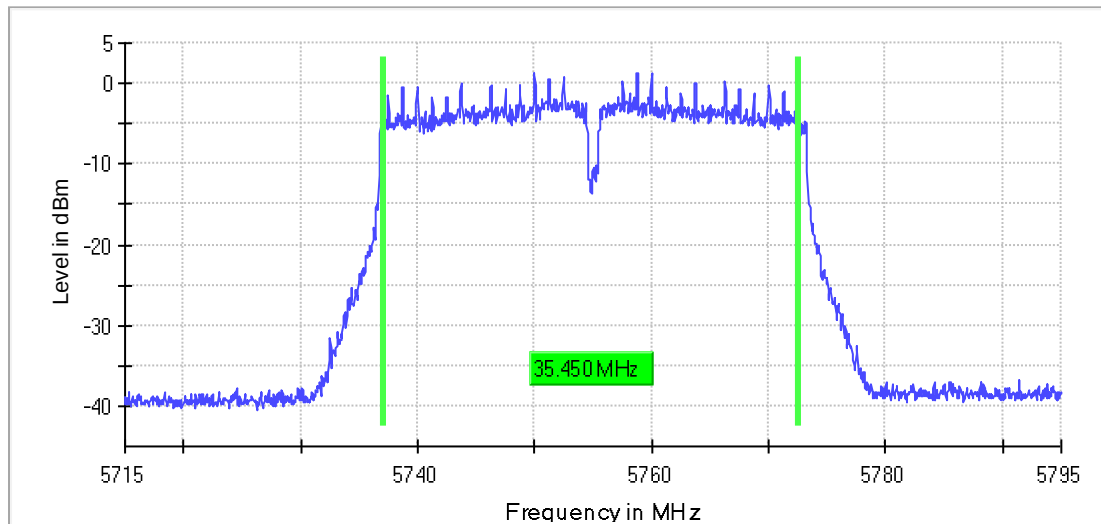


## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.80500 GHz      | 5.80500 GHz   |
| Stop Frequency        | 5.84500 GHz      | 5.84500 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| SweepTime             | 94.922 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 67 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.13 dB          | 0.30 dB       |

802.11n-HT40

6 dB Bandwidth

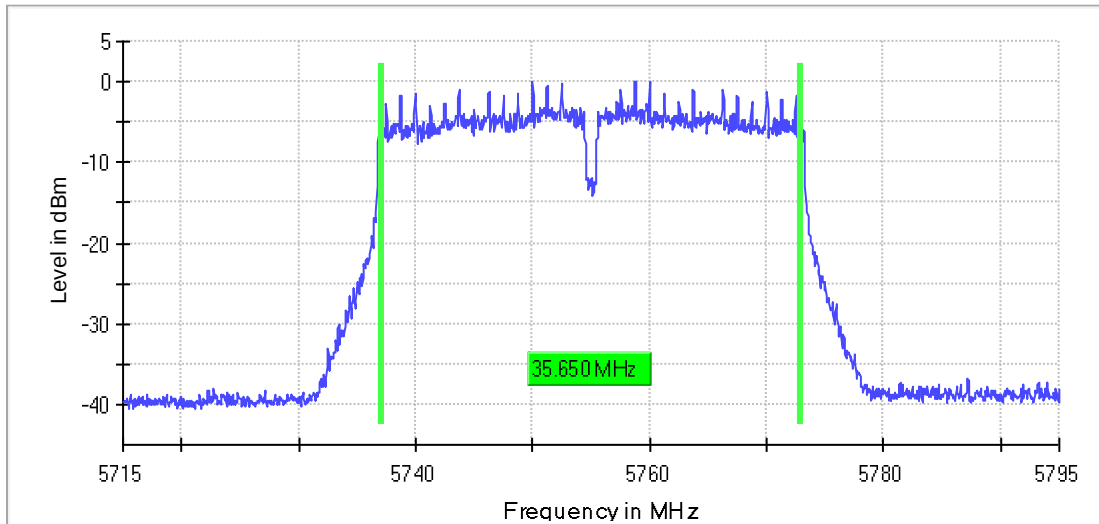


## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.71500 GHz      | 5.71500 GHz   |
| Stop Frequency        | 5.79500 GHz      | 5.79500 GHz   |
| Span                  | 80.000 MHz       | 80.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 1600             | ~ 1600        |
| Sweeptime             | 1.600 ms         | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | Sweep            | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 113 / max. 150   | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.00 dB          | 0.30 dB       |

802.11ac40

6 dB Bandwidth

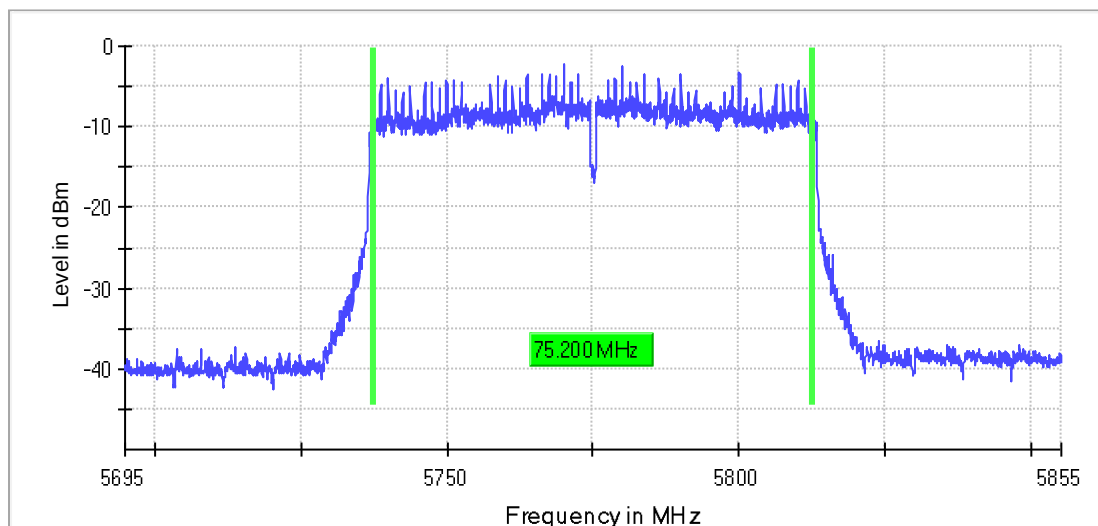


## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.71500 GHz      | 5.71500 GHz   |
| Stop Frequency        | 5.79500 GHz      | 5.79500 GHz   |
| Span                  | 80.000 MHz       | 80.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 1600             | ~ 1600        |
| Sweeptime             | 1.600 ms         | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| Sweeptype             | Sweep            | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 86 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.00 dB          | 0.30 dB       |

802.11ac80

6 dB Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 5.69500 GHz      | 5.69500 GHz   |
| Stop Frequency        | 5.85500 GHz      | 5.85500 GHz   |
| Span                  | 160.000 MHz      | 160.000 MHz   |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 3200             | ~ 3200        |
| SweepTime             | 360.703 µs       | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 92 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.01 dB          | 0.30 dB       |

### 3. Maximum output power

Note: 23.98dBm=250mW, 30dBm=1000mW.

| Channel (mode) | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC E.I.R.P. Limit (dBm) | Result |
|----------------|-------------------------|-----------------------|-----------------|-------------------------|--------|
| 36 (802.11a)   | 5180                    | 12.2                  | 23.98           | 22.25                   | Pass   |
| 44 (802.11a)   | 5220                    | 12.4                  | 23.98           | 22.22                   | Pass   |
| 48 (802.11a)   | 5240                    | 11.9                  | 23.98           | 22.30                   | Pass   |
| 52 (802.11a)   | 5260                    | 12.3                  | 23.98           | 30                      | Pass   |
| 56 (802.11a)   | 5280                    | 12.2                  | 23.98           | 30                      | Pass   |
| 64 (802.11a)   | 5320                    | 12.2                  | 23.98           | 30                      | Pass   |
| 100 (802.11a)  | 5500                    | 8.5                   | 23.98           | 30                      | Pass   |
| 116 (802.11a)  | 5580                    | 8.9                   | 23.98           | 30                      | Pass   |
| 140 (802.11a)  | 5700                    | 10.6                  | 23.98           | 30                      | Pass   |
| 144 (802.11a)  | 5720                    | 10.4                  | 23.98           | 30                      | Pass   |
| 149 (802.11a)  | 5745                    | 10.3                  | 30              | 36                      | Pass   |
| 157 (802.11a)  | 5785                    | 10.6                  | 30              | 36                      | Pass   |
| 165 (802.11a)  | 5825                    | 9.5                   | 30              | 36                      | Pass   |

Max. e.i.r.p.= max.  $P_{(\text{Peak power})} + G$ , which is far below the IC Limit  
G = 2.0dBi

| Channel (mode)     | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | Result |
|--------------------|-------------------------|-----------------------|-----------------|----------------|--------|
| 36 (802.11n-HT20)  | 5180                    | 11.9                  | 23.98           | 22.50          | Pass   |
| 44 (802.11n-HT20)  | 5220                    | 12.1                  | 23.98           | 22.50          | Pass   |
| 48 (802.11n-HT20)  | 5240                    | 11.6                  | 23.98           | 22.50          | Pass   |
| 52 (802.11n-HT20)  | 5260                    | 12.1                  | 23.98           | 30             | Pass   |
| 56 (802.11n-HT20)  | 5280                    | 12.0                  | 23.98           | 30             | Pass   |
| 64 (802.11n-HT20)  | 5320                    | 12.0                  | 23.98           | 30             | Pass   |
| 100 (802.11n-HT20) | 5500                    | 8.4                   | 23.98           | 30             | Pass   |
| 116 (802.11n-HT20) | 5580                    | 8.7                   | 23.98           | 30             | Pass   |
| 140 (802.11n-HT20) | 5700                    | 10.4                  | 23.98           | 30             | Pass   |
| 144 (802.11n-HT20) | 5720                    | 10.2                  | 23.98           | 30             | Pass   |
| 149 (802.11n-HT20) | 5745                    | 10.1                  | 30              | 36             | Pass   |
| 157 (802.11n-HT20) | 5785                    | 10.4                  | 30              | 36             | Pass   |
| 165 (802.11n-HT20) | 5825                    | 9.4                   | 30              | 36             | Pass   |

Max. e.i.r.p.= max.  $P_{(\text{Peak power})} + G$ , which is far below the IC Limit  
G = 2.0dBi

| Channel (mode)   | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | Result |
|------------------|-------------------------|-----------------------|-----------------|----------------|--------|
| 36 (802.11ac20)  | 5180                    | 11.9                  | 23.98           | 22.47          | Pass   |
| 44 (802.11ac20)  | 5220                    | 12.0                  | 23.98           | 22.47          | Pass   |
| 48 (802.11ac20)  | 5240                    | 11.6                  | 23.98           | 22.47          | Pass   |
| 52 (802.11ac20)  | 5260                    | 12.0                  | 23.98           | 30             | Pass   |
| 56 (802.11ac20)  | 5280                    | 12.0                  | 23.98           | 30             | Pass   |
| 64 (802.11ac20)  | 5320                    | 12.0                  | 23.98           | 30             | Pass   |
| 100 (802.11ac20) | 5500                    | 8.4                   | 23.98           | 30             | Pass   |
| 116 (802.11ac20) | 5580                    | 8.8                   | 23.98           | 30             | Pass   |
| 140 (802.11ac20) | 5700                    | 10.4                  | 23.98           | 30             | Pass   |

Appendix B  
60374756 004



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|                  |      |      |       |    |      |
|------------------|------|------|-------|----|------|
| 142 (802.11ac20) | 5720 | 10.2 | 23.98 | 30 | Pass |
| 149 (802.11ac20) | 5745 | 10.0 | 30    | 36 | Pass |
| 157 (802.11ac20) | 5785 | 10.4 | 30    | 36 | Pass |
| 165 (802.11ac20) | 5825 | 9.4  | 30    | 36 | Pass |

Max. e.i.r.p.= max.  $P_{(Peak\ power)} + G$ , which is far below the IC Limit  
G = 2.0dBi

| Channel (mode)     | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | Result |
|--------------------|-------------------------|-----------------------|-----------------|----------------|--------|
| 38 (802.11n-HT40)  | 5190                    | 12.7                  | 23.98           | 23.00          | Pass   |
| 46 (802.11n-HT40)  | 5230                    | 12.5                  | 23.98           | 23.00          | Pass   |
| 54 (802.11n-HT40)  | 5270                    | 12.8                  | 23.98           | 30             | Pass   |
| 62 (802.11n-HT40)  | 5310                    | 12.6                  | 23.98           | 30             | Pass   |
| 102 (802.11n-HT40) | 5510                    | 9.4                   | 23.98           | 30             | Pass   |
| 110 (802.11n-HT40) | 5550                    | 9.3                   | 23.98           | 30             | Pass   |
| 134 (802.11n-HT40) | 5670                    | 10.5                  | 23.98           | 30             | Pass   |
| 142 (802.11n-HT40) | 5710                    | 10.5                  | 23.98           | 30             | Pass   |
| 151 (802.11n-HT40) | 5755                    | 10.4                  | 30              | 36             | Pass   |
| 159 (802.11n-HT40) | 5795                    | 10.3                  | 30              | 36             | Pass   |

Max. e.i.r.p.= max.  $P_{(Peak\ power)} + G$ , which is far below the IC Limit  
G = 2.0dBi

| Channel (mode)   | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | Result |
|------------------|-------------------------|-----------------------|-----------------|----------------|--------|
| 38 (802.11ac40)  | 5190                    | 12.7                  | 23.98           | 23.00          | Pass   |
| 46 (802.11ac40)  | 5230                    | 12.5                  | 23.98           | 23.00          | Pass   |
| 54 (802.11ac40)  | 5270                    | 12.8                  | 23.98           | 30             | Pass   |
| 62 (802.11ac40)  | 5310                    | 12.6                  | 23.98           | 30             | Pass   |
| 102 (802.11ac40) | 5510                    | 9.3                   | 23.98           | 30             | Pass   |
| 110 (802.11ac40) | 5550                    | 9.2                   | 23.98           | 30             | Pass   |
| 134 (802.11ac40) | 5670                    | 10.5                  | 23.98           | 30             | Pass   |
| 142 (802.11ac40) | 5710                    | 10.5                  | 23.98           | 30             | Pass   |
| 151 (802.11ac40) | 5755                    | 10.4                  | 30              | 36             | Pass   |
| 159 (802.11ac40) | 5795                    | 10.4                  | 30              | 36             | Pass   |

Max. e.i.r.p.= max.  $P_{(Peak\ power)} + G$ , which is far below the IC Limit  
G = 2.0dBi

| Channel (mode)   | Channel Frequency (MHz) | RF Output Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | Result |
|------------------|-------------------------|-----------------------|-----------------|----------------|--------|
| 42 (802.11ac80)  | 5210                    | 12.2                  | 23.98           | 23.00          | Pass   |
| 58 (802.11ac80)  | 5290                    | 12.8                  | 23.98           | 30             | Pass   |
| 106 (802.11ac80) | 5530                    | 9.4                   | 23.98           | 30             | Pass   |
| 138 (802.11ac80) | 5690                    | 9.3                   | 23.98           | 30             | Pass   |
| 155 (802.11ac80) | 5775                    | 9.4                   | 30              | 36             | Pass   |

Max. e.i.r.p.= max.  $P_{(Peak\ power)} + G$ , which is far below the IC Limit  
G = 2.0dBi

## 4. Power Spectral Density

### 4.1 Test Datas

| Channel (mode) | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|----------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                |                         | FCC                              | IC*   |                     |                      |        |
| 36 (802.11a)   | 5180                    | 0.25                             |       | 11                  | 10                   | Pass   |
| 44 (802.11a)   | 5220                    | 0.49                             |       | 11                  | 10                   | Pass   |
| 48 (802.11a)   | 5240                    | -0.04                            |       | 11                  | 10                   | Pass   |
| 52 (802.11a)   | 5260                    | 0.43                             | 0.43  | 11                  | 11                   | Pass   |
| 60 (802.11a)   | 5300                    | 0.41                             | 0.41  | 11                  | 11                   | Pass   |
| 64 (802.11a)   | 5320                    | 0.33                             | 0.33  | 11                  | 11                   | Pass   |
| 100 (802.11a)  | 5500                    | -2.49                            | -2.49 | 11                  | 11                   | Pass   |
| 116 (802.11a)  | 5580                    | -2.08                            | -2.08 | 11                  | 11                   | Pass   |
| 140 (802.11a)  | 5700                    | -0.88                            | -0.88 | 11                  | 11                   | Pass   |
| 142 (802.11a)  | 5720                    | -1.06                            | -1.06 | 11                  | 11                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode) | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|----------------|-------------------------|------------------------|--------------------|--------|
|                |                         | dBm/500KHz             |                    |        |
| 149 (802.11a)  | 5745                    | -3.91                  | 30                 | Pass   |
| 157 (802.11a)  | 5785                    | -3.81                  | 30                 | Pass   |
| 165 (802.11a)  | 5825                    | -4.74                  | 30                 | Pass   |

| Channel (mode)     | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|--------------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                    |                         | FCC                              | IC*   |                     |                      |        |
| 36 (802.11n-HT20)  | 5180                    | -0.29                            |       | 11                  | 10                   | Pass   |
| 44 (802.11n-HT20)  | 5220                    | -0.10                            |       | 11                  | 10                   | Pass   |
| 48 (802.11n-HT20)  | 5240                    | -0.51                            |       | 11                  | 10                   | Pass   |
| 52 (802.11n-HT20)  | 5260                    | -0.13                            | -0.13 | 11                  | 11                   | Pass   |
| 60 (802.11n-HT20)  | 5300                    | -0.12                            | -0.12 | 11                  | 11                   | Pass   |
| 64 (802.11n-HT20)  | 5320                    | -0.16                            | -0.16 | 11                  | 11                   | Pass   |
| 100 (802.11n-HT20) | 5500                    | -3.12                            | -3.12 | 11                  | 11                   | Pass   |
| 116 (802.11n-HT20) | 5580                    | -2.68                            | -2.68 | 11                  | 11                   | Pass   |
| 140 (802.11n-HT20) | 5700                    | -1.45                            | -1.45 | 11                  | 11                   | Pass   |
| 142 (802.11n-HT20) | 5720                    | -1.58                            | -1.58 | 11                  | 11                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode)     | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|--------------------|-------------------------|------------------------|--------------------|--------|
|                    |                         | dBm/500KHz             |                    |        |
| 149 (802.11n-HT20) | 5745                    | -4.51                  | 30                 | Pass   |
| 157 (802.11n-HT20) | 5785                    | -4.42                  | 30                 | Pass   |
| 165 (802.11n-HT20) | 5825                    | -5.43                  | 30                 | Pass   |

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|------------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                  |                         | FCC                              | IC*   |                     |                      |        |
| 36 (802.11ac20)  | 5180                    | -0.20                            |       | 11                  | 10                   | Pass   |
| 44 (802.11ac20)  | 5220                    | -0.16                            |       | 11                  | 10                   | Pass   |
| 48 (802.11ac20)  | 5240                    | -0.57                            |       | 11                  | 10                   | Pass   |
| 52 (802.11ac20)  | 5260                    | -0.09                            | -0.09 | 11                  | 11                   | Pass   |
| 60 (802.11ac20)  | 5300                    | -0.06                            | -0.06 | 11                  | 11                   | Pass   |
| 64 (802.11ac20)  | 5320                    | -0.08                            | -0.08 | 11                  | 11                   | Pass   |
| 100 (802.11ac20) | 5500                    | -3.15                            | -3.15 | 11                  | 11                   | Pass   |
| 116 (802.11ac20) | 5580                    | -2.64                            | -2.64 | 11                  | 11                   | Pass   |
| 140 (802.11ac20) | 5700                    | -1.46                            | -1.46 | 11                  | 11                   | Pass   |
| 142 (802.11ac20) | 5720                    | -1.57                            | -1.57 | 11                  | 11                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|------------------|-------------------------|------------------------|--------------------|--------|
|                  |                         | dBm/500KHz             |                    |        |
| 149 (802.11ac20) | 5745                    | -4.51                  | 30                 | Pass   |
| 157 (802.11ac20) | 5785                    | -4.40                  | 30                 | Pass   |
| 165 (802.11ac20) | 5825                    | -5.34                  | 30                 | Pass   |

| Channel (mode)     | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|--------------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                    |                         | FCC                              | IC*   |                     |                      |        |
| 38 (802.11n-HT40)  | 5190                    | -2.49                            |       | 11                  | 10                   | Pass   |
| 46 (802.11n-HT40)  | 5230                    | -2.65                            |       | 11                  | 10                   | Pass   |
| 54 (802.11n-HT40)  | 5270                    | -2.12                            | -2.12 | 11                  | 10                   | Pass   |
| 62 (802.11n-HT40)  | 5310                    | -2.16                            | -2.16 | 11                  | 11                   | Pass   |
| 102 (802.11n-HT40) | 5510                    | -5.31                            | -5.31 | 11                  | 11                   | Pass   |
| 110 (802.11n-HT40) | 5550                    | -5.64                            | -5.64 | 11                  | 11                   | Pass   |
| 134 (802.11n-HT40) | 5670                    | -4.38                            | -4.38 | 11                  | 11                   | Pass   |
| 142 (802.11n-HT40) | 5710                    | -4.53                            | -4.53 | 11                  | 11                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode)     | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|--------------------|-------------------------|------------------------|--------------------|--------|
|                    |                         | dBm/500KHz             |                    |        |
| 151 (802.11n-HT40) | 5755                    | -7.60                  | 30                 | Pass   |
| 159 (802.11n-HT40) | 5795                    | -7.83                  | 30                 | Pass   |

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|------------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                  |                         | FCC                              | IC*   |                     |                      |        |
| 38 (802.11ac40)  | 5190                    | -2.46                            |       | 11                  | 10                   | Pass   |
| 46 (802.11ac40)  | 5230                    | -2.66                            |       | 11                  | 10                   | Pass   |
| 54 (802.11ac40)  | 5270                    | -2.19                            | -2.19 | 11                  | 10                   | Pass   |
| 62 (802.11ac40)  | 5310                    | -2.47                            | -2.47 | 11                  | 11                   | Pass   |
| 102 (802.11ac40) | 5510                    | -5.31                            | -5.31 | 11                  | 11                   | Pass   |
| 110 (802.11ac40) | 5550                    | -5.64                            | -5.64 | 11                  | 11                   | Pass   |
| 134 (802.11ac40) | 5670                    | -4.38                            | -4.38 | 11                  | 11                   | Pass   |
| 142 (802.11ac40) | 5710                    | -4.52                            | -4.52 | 11                  | 11                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|------------------|-------------------------|------------------------|--------------------|--------|
|                  |                         | dBm/500KHz             |                    |        |
| 151 (802.11ac40) | 5755                    | -7.22                  | 30                 | Pass   |
| 159 (802.11ac40) | 5795                    | -7.70                  | 30                 | Pass   |

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density (dBm/MHz) |       | FCC Limit (dBm/MHz) | IC Limit (dBm/MHz**) | Result |
|------------------|-------------------------|----------------------------------|-------|---------------------|----------------------|--------|
|                  |                         | FCC                              | IC*   |                     |                      |        |
| 42 (802.11ac80)  | 5210                    | -5.97                            |       | 11                  | 10                   | Pass   |
| 58 (802.11ac80)  | 5290                    | -5.38                            | -5.38 | 11                  | 10                   | Pass   |
| 106 (802.11ac80) | 5530                    | -8.51                            | -8.51 | 11                  | 10                   | Pass   |

\*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

\*\*For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

| Channel (mode)   | Channel Frequency (MHz) | Power Spectral Density | Limit (dBm/500KHz) | Result |
|------------------|-------------------------|------------------------|--------------------|--------|
|                  |                         | dBm/500KHz             |                    |        |
| 155 (802.11ac80) | 5775                    | -11.94                 | 30                 | Pass   |

## 5. Dynamic Frequency Selection (DFS)

### DFS In-Service Monitoring (5290 MHz; 15.400 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

#### Measurement Summary

| DUT Frequency (MHz) | Radar Type No. | Type of Measurement value         | Overall Result |
|---------------------|----------------|-----------------------------------|----------------|
| 5290.000000         | 0              | First of all Transmitt Test       | ---            |
| 5290.000000         | 0              | Channel Move Time                 | PASS           |
| 5290.000000         | 0              | Channel Closing Transmission Time | PASS           |
| 5290.000000         | 0              | Non-occupancy period              | PASS           |

(continuation of the "Measurement Summary" table from column 4 ...)

| DUT Frequency (MHz) | Overall Comment              |
|---------------------|------------------------------|
| 5290.000000         | not performed / not finished |
| 5290.000000         |                              |
| 5290.000000         |                              |
| 5290.000000         |                              |

#### Channel Move Time Detailed Results

| DUT Frequency (MHz) | Radar Type No. | CMT Tx Time (s) | CMT Limit (s) | CMT Result |
|---------------------|----------------|-----------------|---------------|------------|
| 5290.000000         | 0              | 1.012           | 10.000        | PASS       |

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

| DUT Frequency (MHz) | CMT Comment                                                         |
|---------------------|---------------------------------------------------------------------|
| 5290.000000         | Tx Time value is last trailing edge found within sweep. See Note 1. |

#### Channel Closing Transmission Time Detailed Results

| DUT Frequency (MHz) | Radar Type No. | CCTT Type of Value              | CCTT No. of Pulses found | CCTT Tx Time (ms) |
|---------------------|----------------|---------------------------------|--------------------------|-------------------|
| 5290.000000         | 0              | first 200 ms                    | 132                      | 8.912             |
| 5290.000000         | 0              | remaining 10.0 second(s) period | 410                      | 25.612            |

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

| DUT Frequency (MHz) | CCTT Tx Time Limit (ms) | CCTT Result | CCTT Comment |
|---------------------|-------------------------|-------------|--------------|
| 5290.000000         | 200.000                 | PASS        | See Note 1.  |
| 5290.000000         | 60.000                  | PASS        | See Note 1.  |

#### Non-occupancy period Detailed Results

| DUT Frequency (MHz) | Radar Type No. | NOP No. of Pulses found | NOP No. of Pulses Limit | NOP Tx Time (s) | NOP Tx Time Limit (s) |
|---------------------|----------------|-------------------------|-------------------------|-----------------|-----------------------|
| 5290.000000         | 0              | 0                       | 0                       | 0.000           | 0.000                 |

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

| DUT Frequency (MHz) | NOP Result | NOP Comment                                                                                |
|---------------------|------------|--------------------------------------------------------------------------------------------|
| 5290.000000         | PASS       | not performed because of Channel Closing Transmission Time / Channel Move Time Test failed |

## Transmitting Test Detailed Results

| DUT Frequency (MHz) | Tx-Test Result | Tx-Test Comment              |
|---------------------|----------------|------------------------------|
| 5290.000000         | ---            | not performed / not finished |

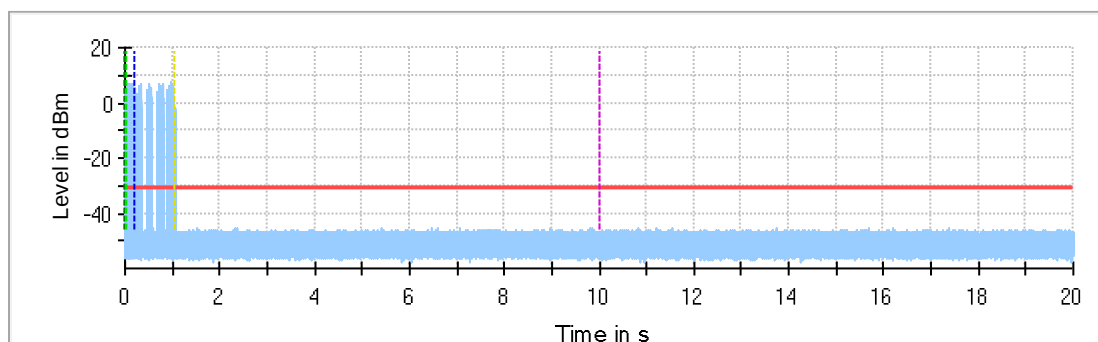
## Radar level verification

| Description / Formula                                                                                                                                                                                                                                                                             | Value                                                       | Unit    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|
| IF((<br>{DFS Mode(0/1/2)}=0)or(<br>{DFS Mode(0/1/2)}=1) , IF((dBm2W(<br>{Nominal Power[dBm]}>0.2) , -64 , IF((<br>{Configured PSD[dBm]}<10) , -62 , -64))+<br>{Attenuation Vector Generator to DUT[dB]} , -50+<br>{Attenuation Vector Generator to COMP[dB]}+<br>{Radar Signal Level Offset[dB]}) | Given setting / formula to calculate Vector Generator level | --      |
| Configured DUT EIRP:                                                                                                                                                                                                                                                                              | 28.84                                                       | mW      |
| Configured DUT PSD:                                                                                                                                                                                                                                                                               | -3.70                                                       | dBm/MHz |
| Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3                                                                                                                                                                                               | -62                                                         | dBm     |
| Vector Generator level setting                                                                                                                                                                                                                                                                    | -3.29                                                       | dBm     |
| Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable                                                                                                                                                                                                   | 35.53                                                       | dB      |
| Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2                                                                                                                                        | 1.00                                                        | dB      |
| This results in the following radar signal level at the DUT                                                                                                                                                                                                                                       | -38.82                                                      | dBm     |

## Additional Information

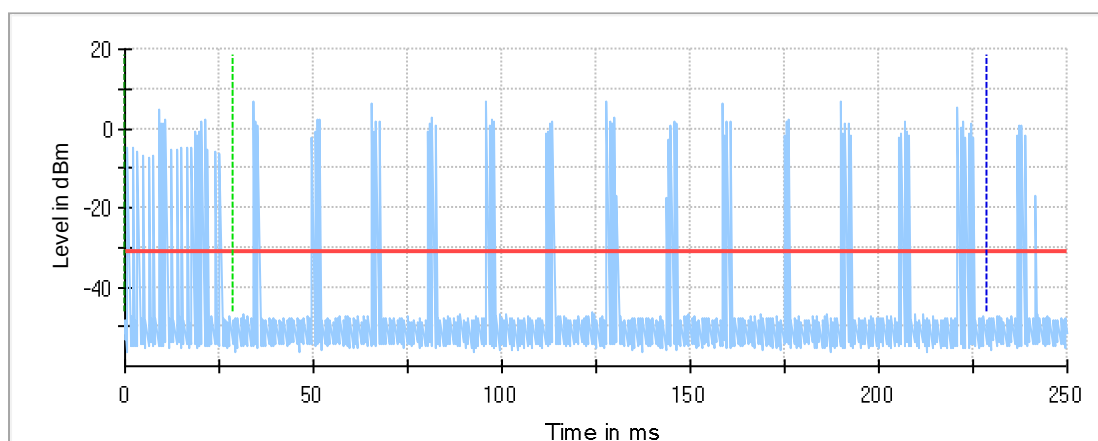
| Note    | Description                                                                                                                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.                                                    |
| Note 2: | Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel                                                                    |
| Note 3: | Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4 $\mu$ s |
| Note 4: | The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.)<br>Labeling of the x-axis (time) is relative to its beginning (0 secs.)                                          |

Channel Move Time



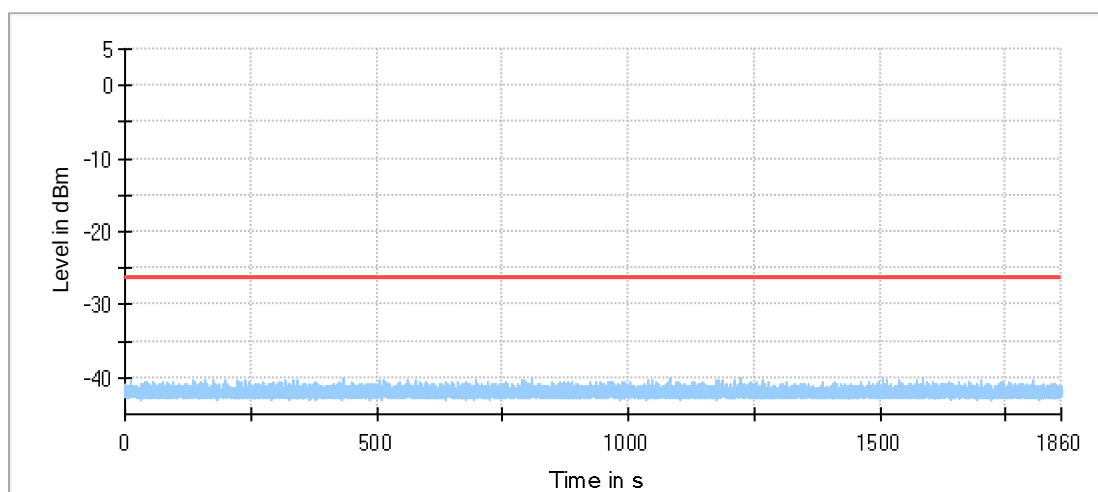
- Channel Move Time
- Threshold
- - - Start of Radar
- - - Trigger at end of Radar
- - - First 200ms of Channel Closing Tx Time
- - - 10sec Channel Move Time Limit
- - - Last measured edge of Channel Closing Tx Time

Channel Move Time first 200ms



— Channel Move Time first 200ms  
- - - Start of Radar  
- - - First 200ms of Channel Closing Tx Time  
— Threshold  
- - - Trigger at end of Radar

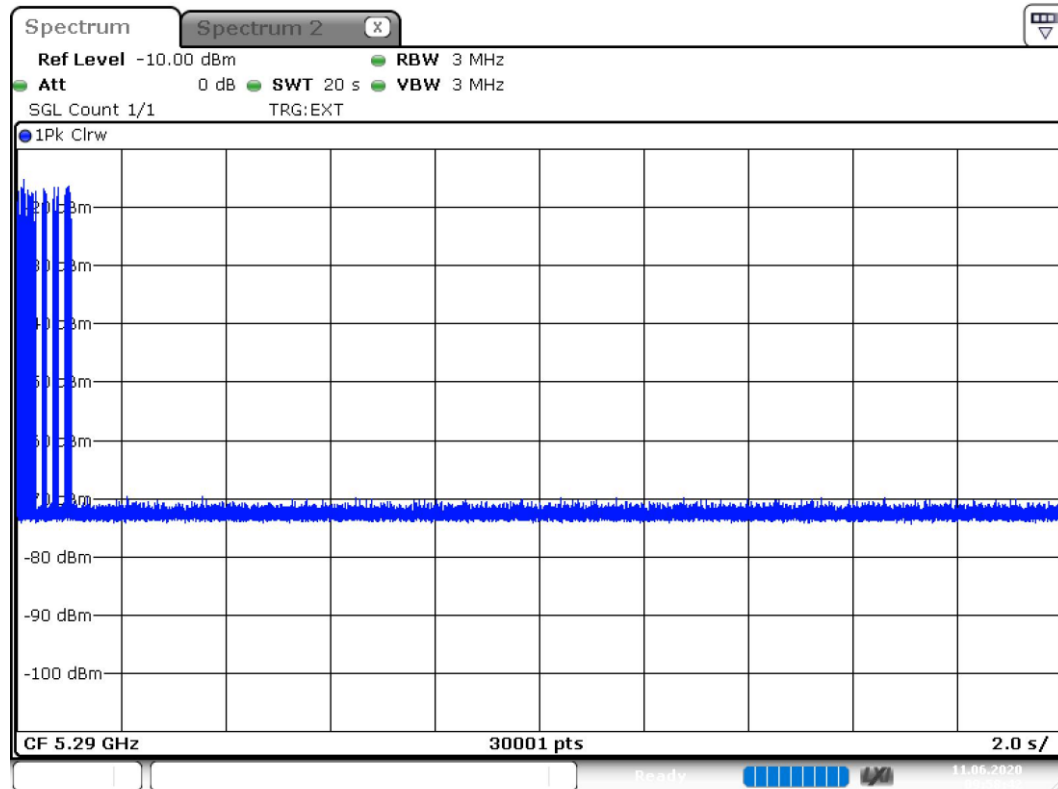
Non-occupancy period



— Non-occupancy period  
— Threshold

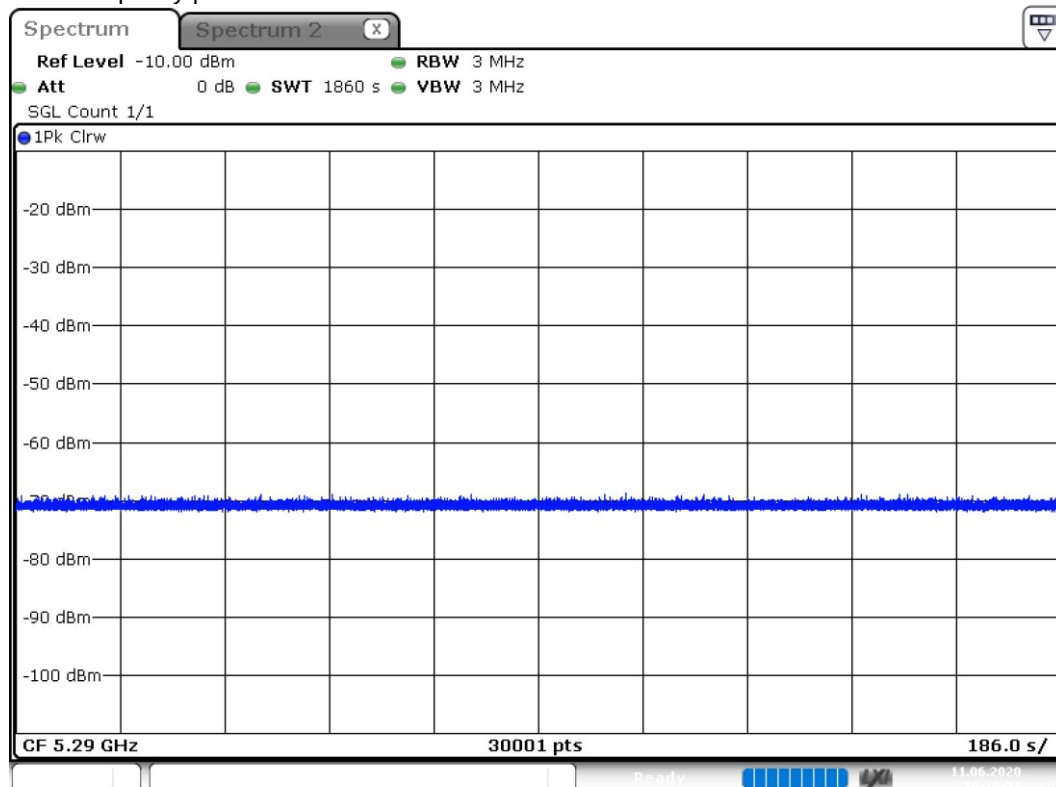
Produkte  
Products

### Channel Move Time



Date: 11.JUN.2020 09:58:42

### Non-occupancy period



Date: 11.JUN.2020 10:29:51

## DFS In-Service Monitoring (5530 MHz; 15.400 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

### Measurement Summary

| DUT Frequency (MHz) | Radar Type No. | Type of Measurement value         | Overall Result |
|---------------------|----------------|-----------------------------------|----------------|
| 5530.000000         | 0              | First of all Transmitt Test       | ---            |
| 5530.000000         | 0              | Channel Move Time                 | PASS           |
| 5530.000000         | 0              | Channel Closing Transmission Time | PASS           |
| 5530.000000         | 0              | Non-occupancy period              | PASS           |

(continuation of the "Measurement Summary" table from column 4 ...)

| DUT Frequency (MHz) | Overall Comment              |
|---------------------|------------------------------|
| 5530.000000         | not performed / not finished |
| 5530.000000         |                              |
| 5530.000000         |                              |
| 5530.000000         |                              |

### Channel Move Time Detailed Results

| DUT Frequency (MHz) | Radar Type No. | CMT Tx Time (s) | CMT Limit (s) | CMT Result |
|---------------------|----------------|-----------------|---------------|------------|
| 5530.000000         | 0              | 0.000           | 10.000        | PASS       |

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

| DUT Frequency (MHz) | CMT Comment                                                         |
|---------------------|---------------------------------------------------------------------|
| 5530.000000         | Tx Time value is last trailing edge found within sweep. See Note 1. |

### Channel Closing Transmission Time Detailed Results

| DUT Frequency (MHz) | Radar Type No. | CCTT Type of Value              | CCTT No. of Pulses found | CCTT Tx Time (ms) |
|---------------------|----------------|---------------------------------|--------------------------|-------------------|
| 5530.000000         | 0              | first 200 ms                    | 0                        | 0.000             |
| 5530.000000         | 0              | remaining 10.0 second(s) period | 0                        | 0.000             |

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

| DUT Frequency (MHz) | CCTT Tx Time Limit (ms) | CCTT Result | CCTT Comment |
|---------------------|-------------------------|-------------|--------------|
| 5530.000000         | 200.000                 | PASS        | See Note 1.  |
| 5530.000000         | 60.000                  | PASS        | See Note 1.  |

### Non-occupancy period Detailed Results

| DUT Frequency (MHz) | Radar Type No. | NOP No. of Pulses found | NOP No. of Pulses Limit | NOP Tx Time (s) | NOP Tx Time Limit (s) |
|---------------------|----------------|-------------------------|-------------------------|-----------------|-----------------------|
| 5530.000000         | 0              | 0                       | 0                       | 0.000           | 0.000                 |

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

| DUT Frequency (MHz) | NOP Result |
|---------------------|------------|
| 5530.000000         | PASS       |

## Transmitting Test Detailed Results

| DUT Frequency (MHz) | Tx-Test Result | Tx-Test Comment              |
|---------------------|----------------|------------------------------|
| 5530.000000         | ---            | not performed / not finished |

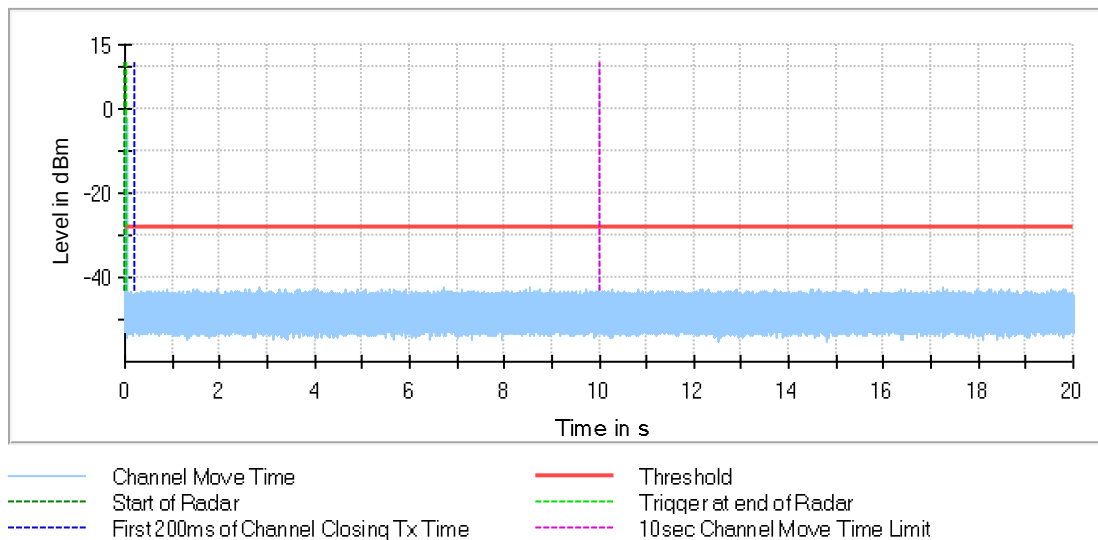
## Radar level verification

| Description / Formula                                                                                                                                                                                                                                                                            | Value                                                             | Unit    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
| IF((<br>{DFS Mode(0/1/2)}=0)or(<br>{DFS Mode(0/1/2)}=1) , IF((dBm2W(<br>{Nominal Power[dBm]}>0.2) , -64 , IF(<br>{Configured PSD[dBm]}<10) , -62 , -64))+<br>{Attenuation Vector Generator to DUT[dB]} , -50+<br>{Attenuation Vector Generator to COMP[dB]}+<br>{Radar Signal Level Offset[dB]}) | Given setting / formula<br>to calculate<br>Vector Generator level | --      |
| Configured DUT EIRP:                                                                                                                                                                                                                                                                             | 25.70                                                             | mW      |
| Configured DUT PSD:                                                                                                                                                                                                                                                                              | -3.70                                                             | dBm/MHz |
| Requirement of the Detection threshold value<br>for this given values acc. to FCC clause 5.2 / Table 3                                                                                                                                                                                           | -62                                                               | dBm     |
| Vector Generator level setting                                                                                                                                                                                                                                                                   | -1.56                                                             | dBm     |
| Configured overall pathloss from Vector Generator<br>RF out to DUT connector of 'DUT to OSP'-cable                                                                                                                                                                                               | 36.64                                                             | dB      |
| Given additional level added to the amplitude of<br>the waveform to account for variations in measurement<br>equipment acc. to FCC clause 5.2 / Table 3 / Note 2                                                                                                                                 | 1.00                                                              | dB      |
| This results in the following radar signal<br>level at the DUT                                                                                                                                                                                                                                   | -38.20                                                            | dBm     |

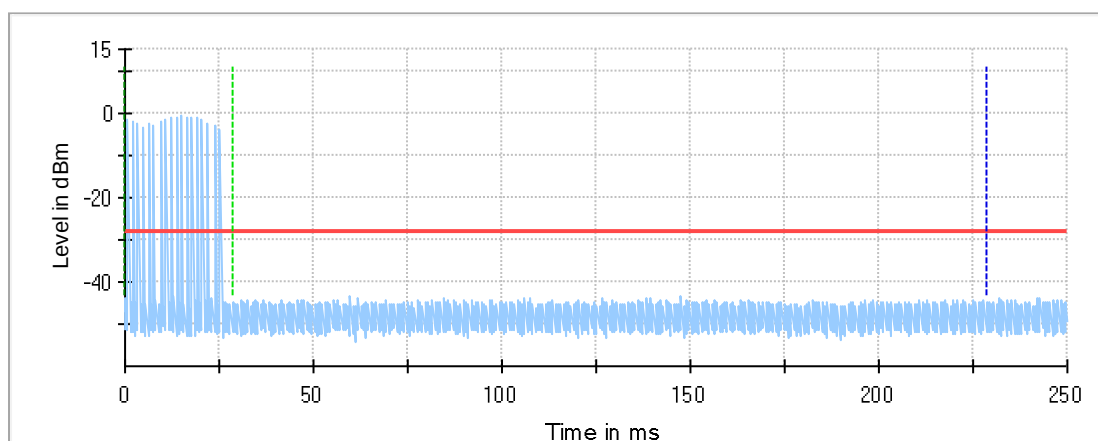
## Additional Information

| Note    | Description                                                                                                                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1: | Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.                                                    |
| Note 2: | Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel                                                                    |
| Note 3: | Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4 $\mu$ s |
| Note 4: | The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.)<br>Labeling of the x-axis (time) is relative to its beginning (0 secs.)                                          |

Channel Move Time

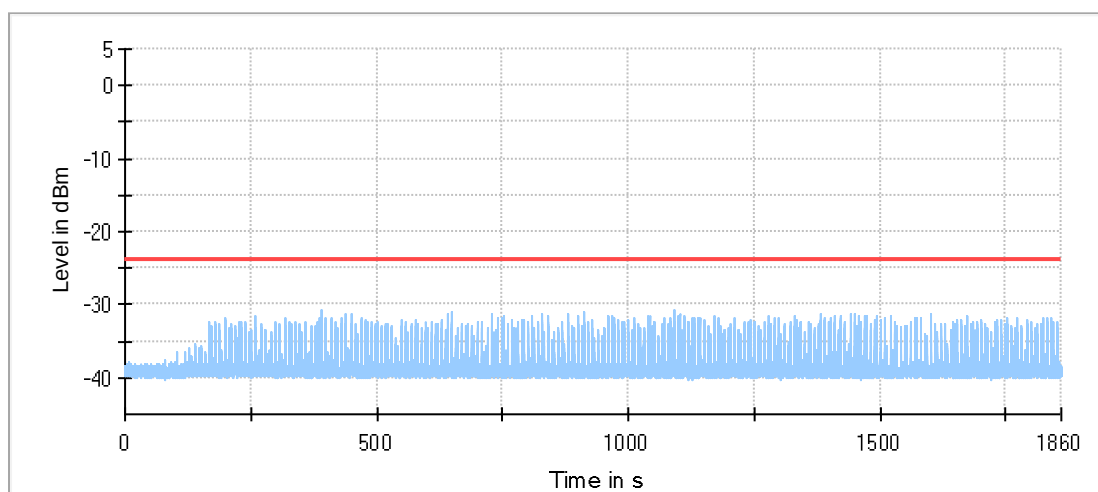


Channel Move Time first 200ms



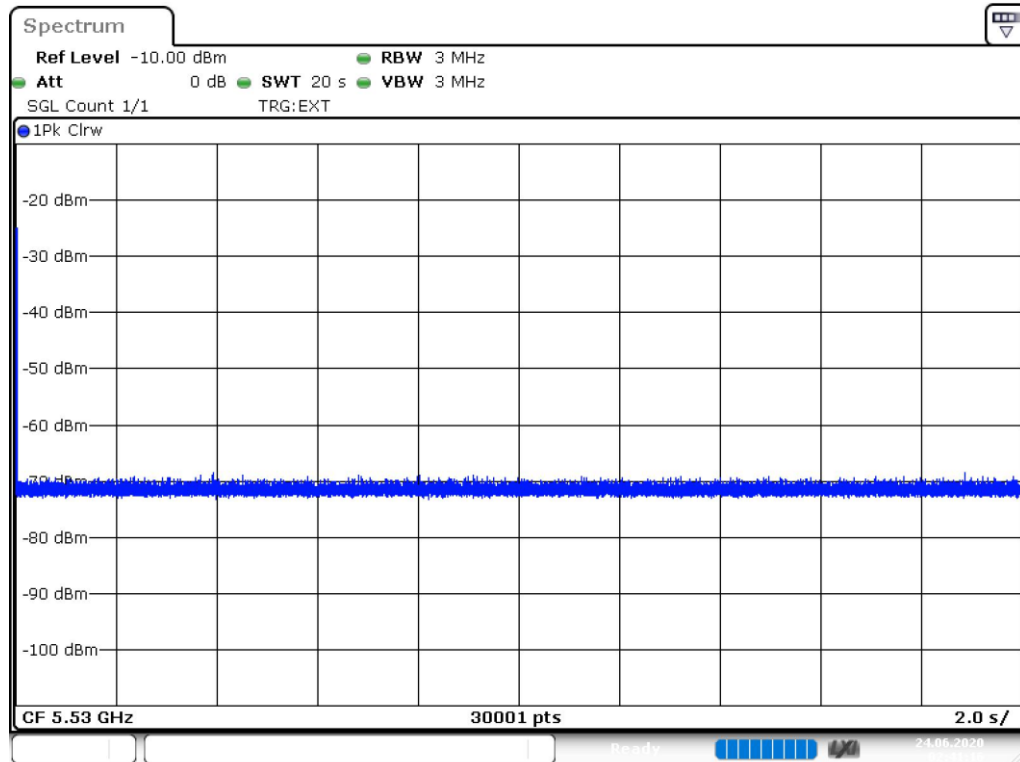
— Channel Move Time first 200ms      — Threshold  
- - - Start of Radar      - - - Trigger at end of Radar  
- - - First 200ms of Channel Closing Tx Time

Non-occupancy period



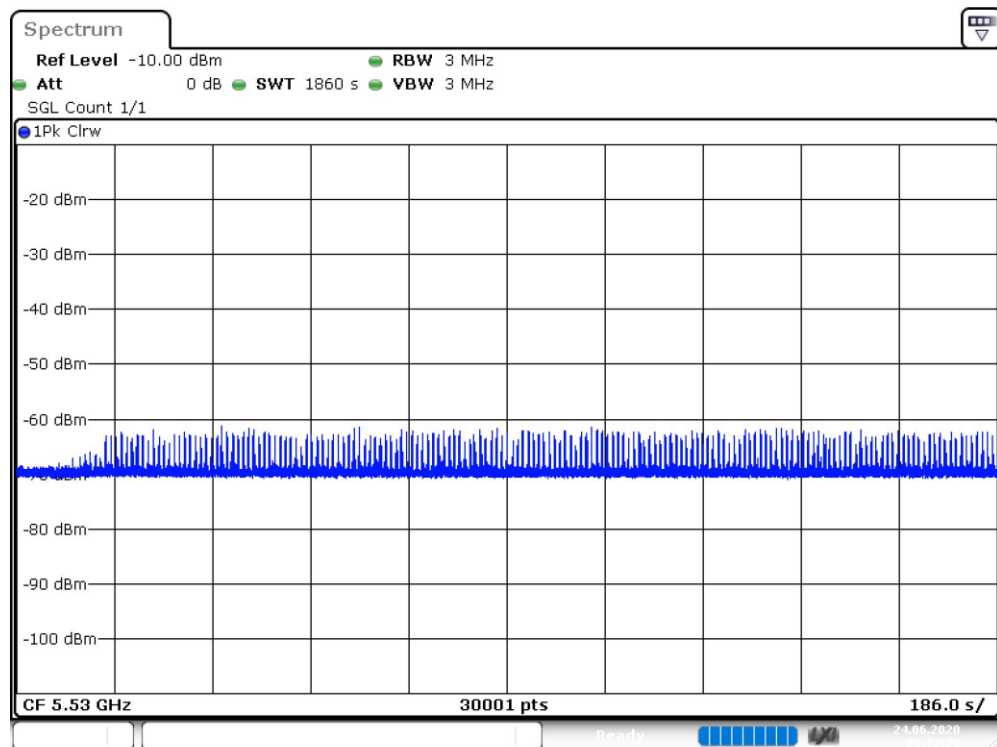
— Non-occupancy period      — Threshold

### Channel Move Time



Date: 24.JUN.2020 02:41:17

### Non-occupancy period



Date: 24.JUN.2020 03:12:26

## 6. Transmitter Spurious Emissions

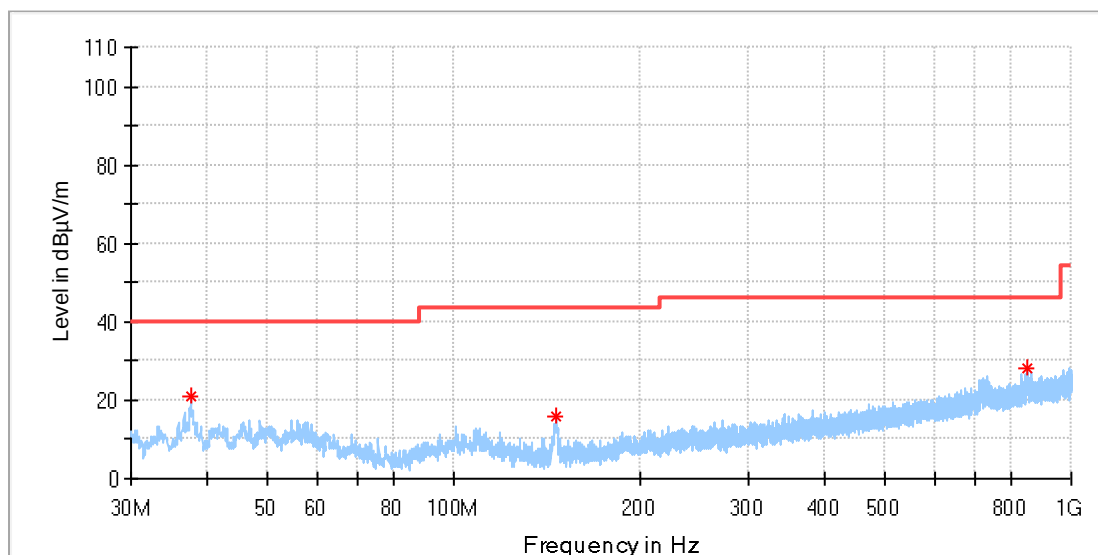
Note:1, Testing is carried out with frequency rang 9kHz to the tenth harmonics.

2, The margin is greater than 20 dB are not shown in this Appendix.

3, All the data rate and configurations have been tested and only the worst case mode (802.11a, n20M/40M and ac 80M) reported.

### 6.1 Transmitter Spurious Emissions, Below 1GHz

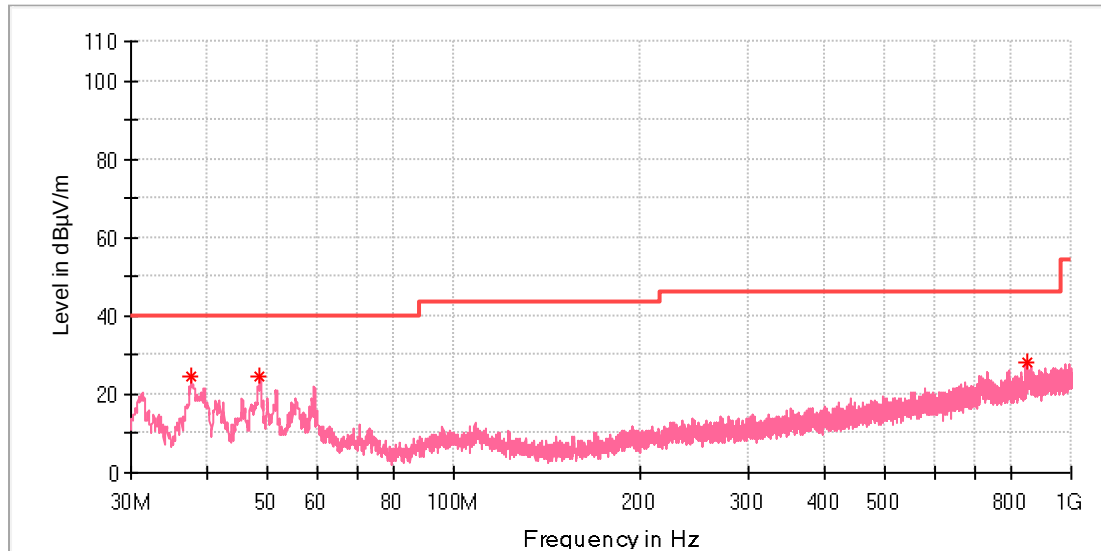
Wi-Fi 5G 11n40M\_5190MHz



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 37.469000       | 21.16            | ---              | 40.00          | 18.84       | 100.0       | H   | 54.0          | -21.3        |
| 146.157500      | 15.97            | ---              | 43.50          | 27.53       | 100.0       | H   | 294.0         | -22.6        |
| 845.382000      | 28.33            | ---              | 46.00          | 17.67       | 100.0       | H   | 313.0         | -6.0         |

Wi-Fi 5G 11n40M\_5190MHz



### Critical\_Freqs

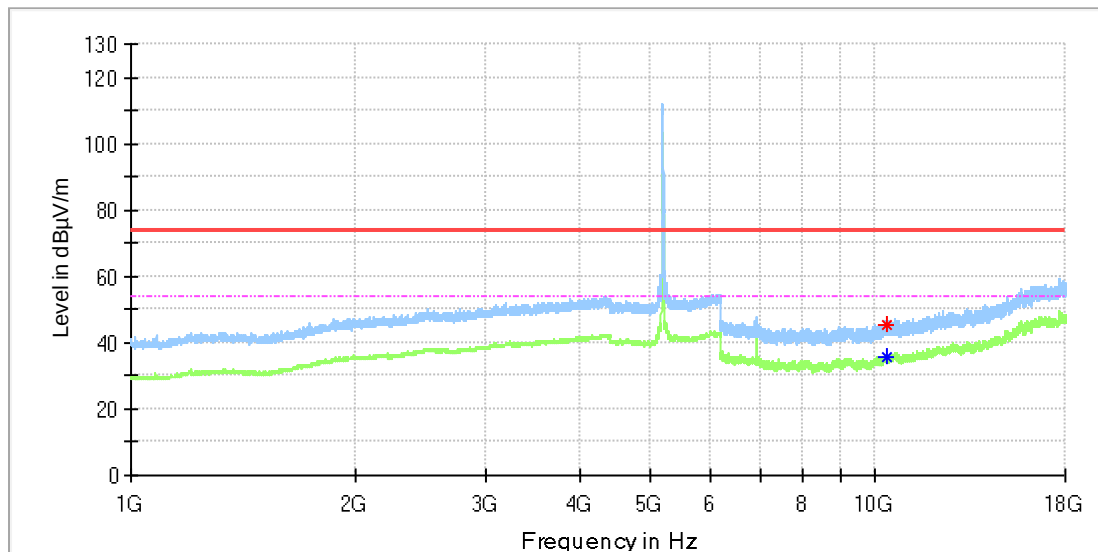
| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 37.469000       | 24.49            | ---              | 40.00          | 15.51       | 100.0       | V   | 228.0         | -21.3        |
| 48.575500       | 24.61            | ---              | 40.00          | 15.39       | 100.0       | V   | 29.0          | -18.7        |
| 845.479000      | 28.09            | ---              | 46.00          | 17.91       | 100.0       | V   | 147.0         | -6.0         |

Note: Testing was carried out within frequency range 9kHz to 40GHz. The measurement results below 30MHz and 18GHz - 40GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. The emission exceed the limite is the fundamental emission.

## 6.2 Transmitter Spurious Emissions, 1GHz-18GHz

802.11a:

Wi-Fi 5G 11a\_Ch36



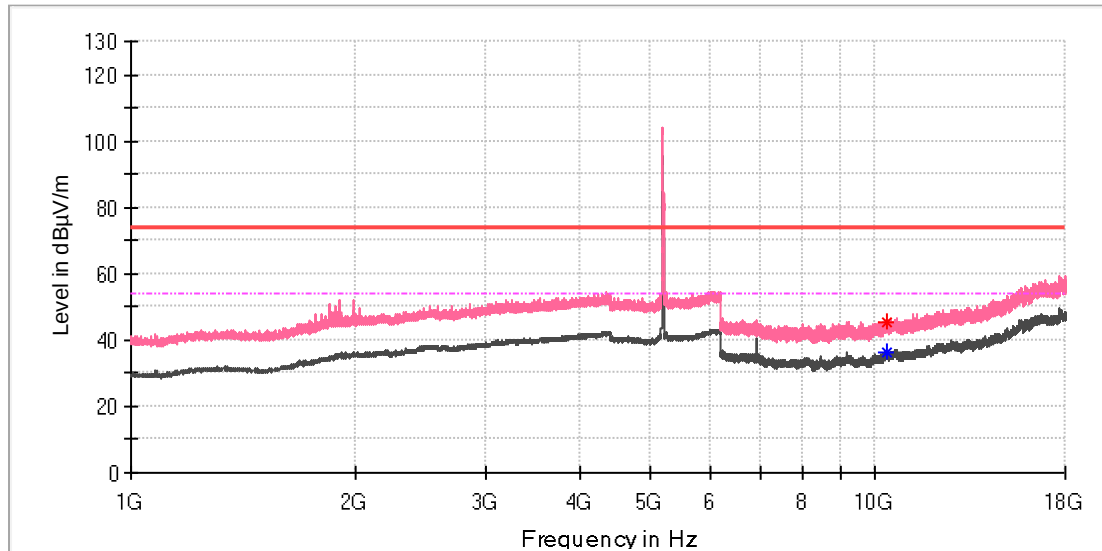
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10358.025000    | 45.09            | ---              | 74.00          | 28.91       | 100.0       | H   | 338.0         | 11.8         |
| 10367.366667    | ---              | 35.70            | 54.00          | 18.30       | 100.0       | H   | 160.0         | 11.8         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 5G 11a\_Ch36



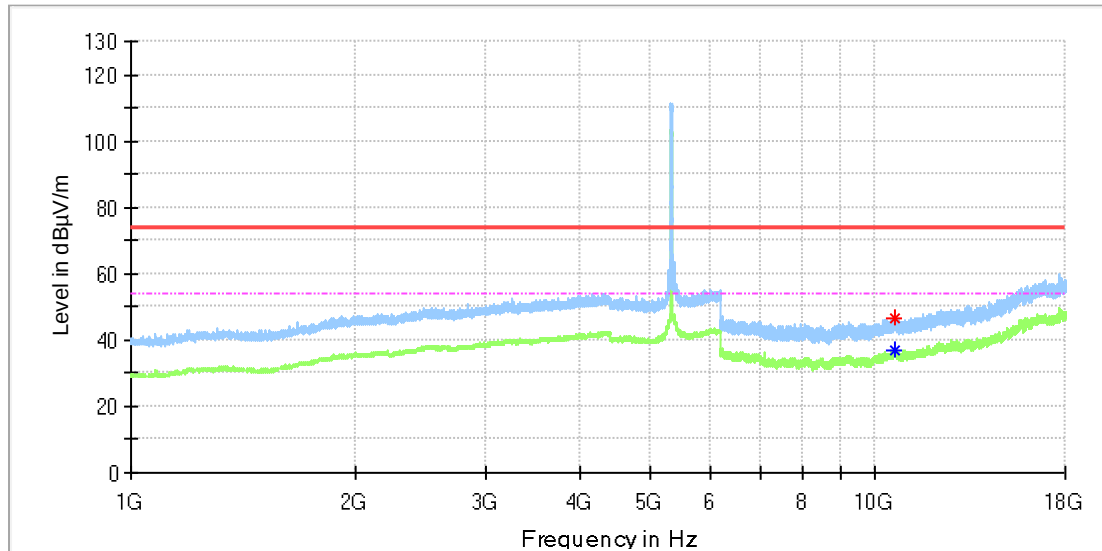
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10364.908333    | 45.56            | ---              | 74.00          | 28.44       | 100.0       | V   | 117.0         | 11.8         |
| 10365.891667    | ---              | 36.43            | 54.00          | 17.57       | 100.0       | V   | 224.0         | 11.8         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 5G 11a\_Ch64



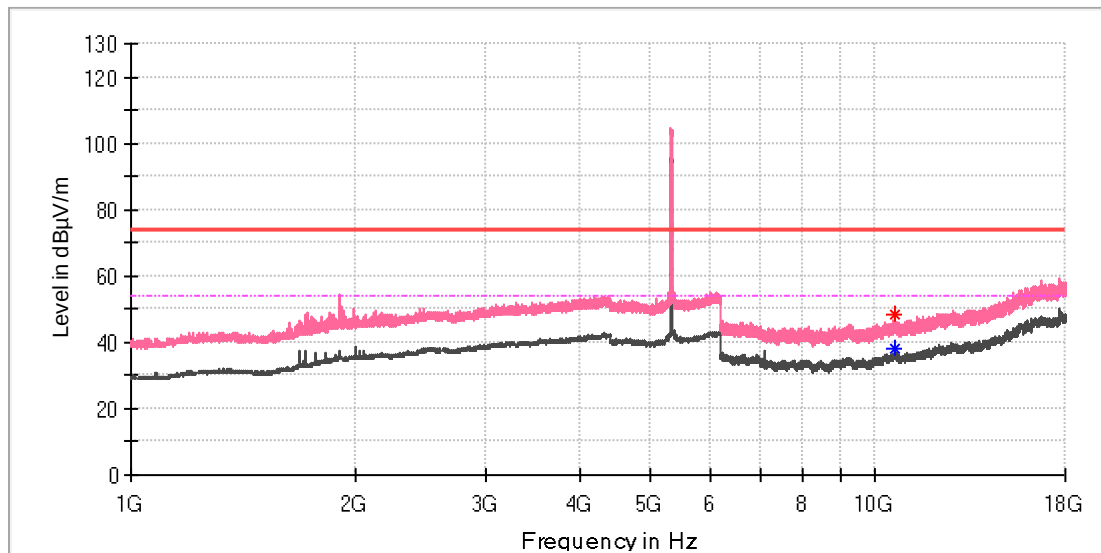
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10642.700000    | 46.43            | ---              | 74.00          | 27.57       | 100.0       | H   | 351.0         | 12.0         |
| 10652.041667    | ---              | 37.05            | 54.00          | 16.95       | 100.0       | H   | 174.0         | 12.0         |

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Wi-Fi 5G 11a\_Ch64



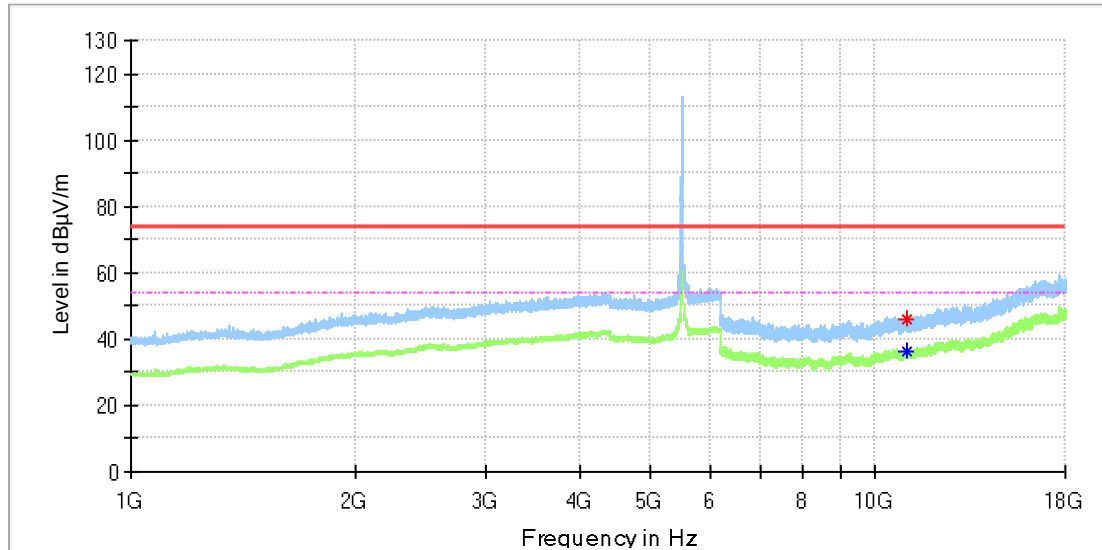
### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10633.358333    | ---              | 38.17            | 54.00          | 15.83       | 100.0       | V   | 184.0         | 12.0         |
| 10643.191667    | 48.13            | ---              | 74.00          | 25.87       | 100.0       | V   | 184.0         | 12.0         |

### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 5G 11a\_Ch100



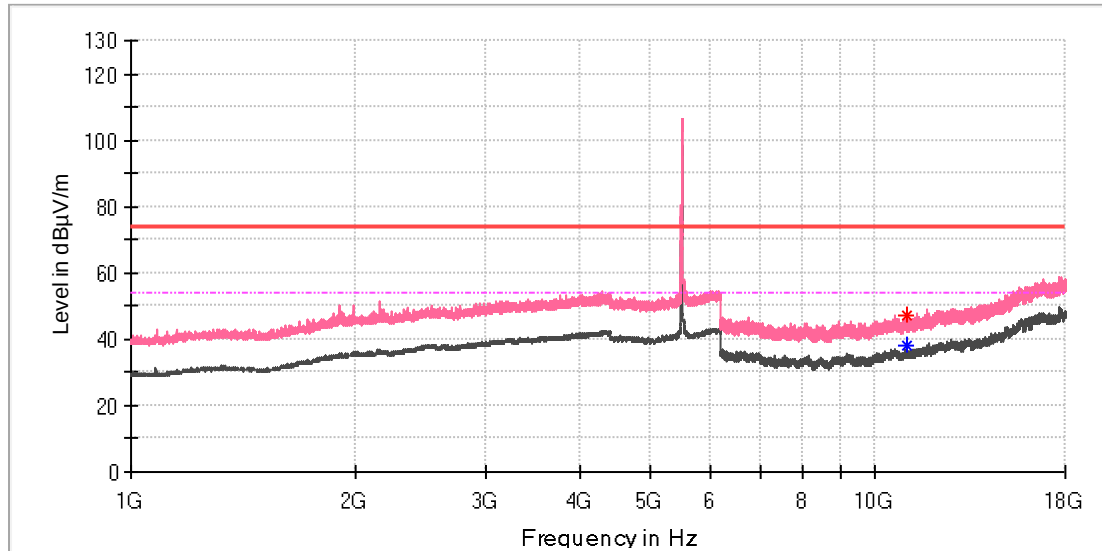
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10994.733333    | ---              | 36.09            | 54.00          | 17.92       | 100.0       | H   | 153.0         | 12.2         |
| 11005.550000    | 45.75            | ---              | 74.00          | 28.25       | 100.0       | H   | 117.0         | 12.2         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Wi-Fi 5G 11a\_Ch100



## Critical\_Freqs

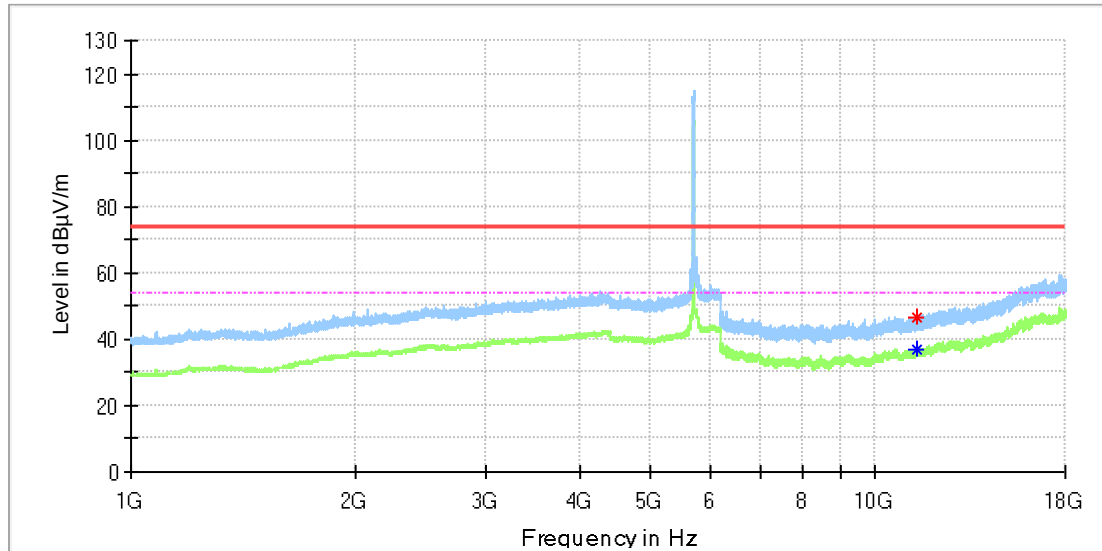
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 10998.175000    | ---              | 38.30            | 54.00          | 15.70       | 100.0       | V   | 0.0           | 12.2         |
| 11003.583333    | 47.12            | ---              | 74.00          | 26.88       | 100.0       | V   | 204.0         | 12.2         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Produkte  
Products

Wi-Fi 5G 11a\_Ch140



## Critical\_Freqs

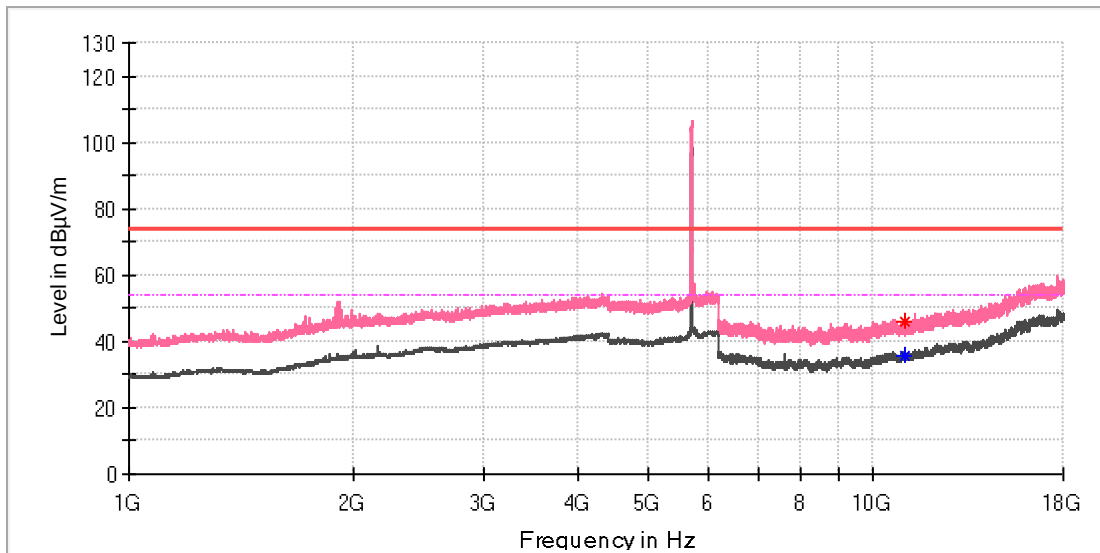
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 11395.441667    | 46.86            | ---              | 74.00          | 27.14       | 100.0       | H   | 209.0         | 12.7         |
| 11408.225000    | ---              | 36.99            | 54.00          | 17.01       | 100.0       | H   | 135.0         | 12.9         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Produkte  
Products

Wi-Fi 5G 11a\_Ch140



## Critical\_Freqs

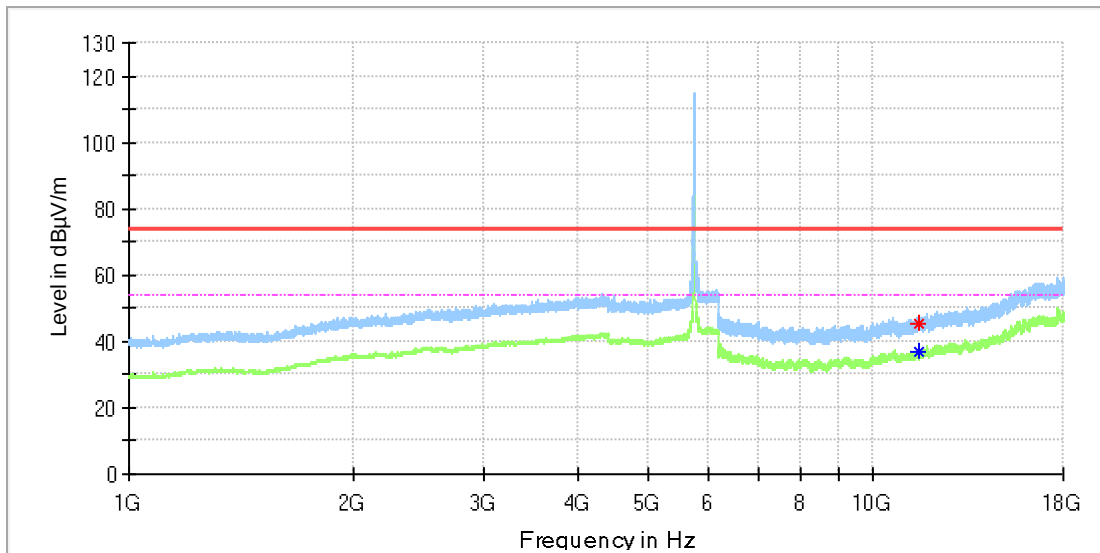
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 11002.108333    | 45.83            | ---              | 74.00          | 28.17       | 100.0       | V   | 29.0          | 12.2         |
| 11003.583333    | ---              | 35.74            | 54.00          | 18.26       | 100.0       | V   | 114.0         | 12.2         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Produkte  
Products

Wi-Fi 5G 11a\_Ch149



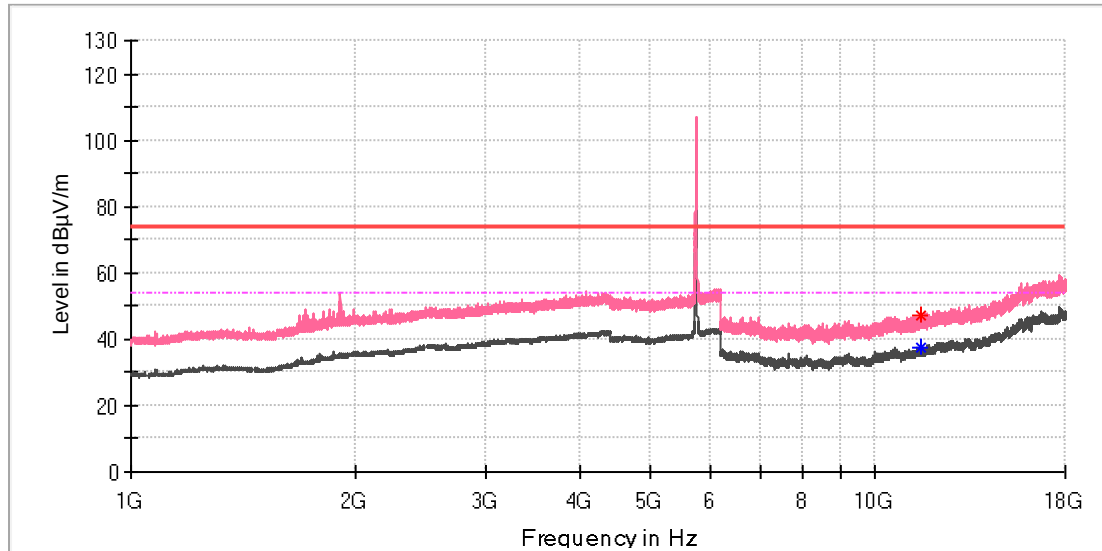
### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 11504.591667    | 45.49            | ---              | 74.00          | 28.51       | 100.0       | H   | 319.0         | 13.7         |
| 11506.066667    | ---              | 36.71            | 54.00          | 17.29       | 100.0       | H   | 175.0         | 13.7         |

### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

Wi-Fi 5G 11a\_Ch149



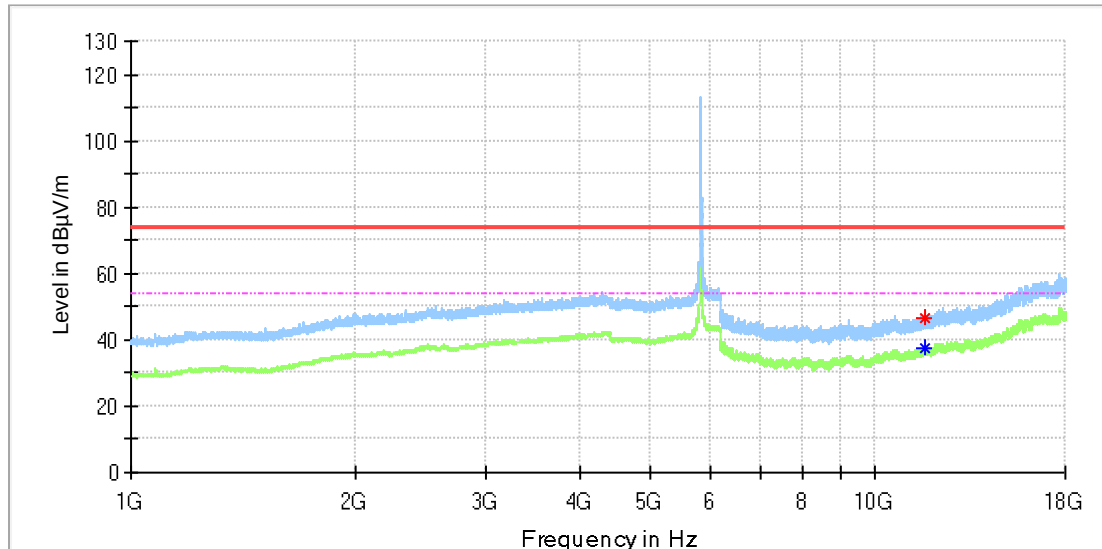
## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 11490.825000    | ---              | 37.33            | 54.00          | 16.67       | 100.0       | V   | 136.0         | 13.7         |
| 11495.250000    | 47.25            | ---              | 74.00          | 26.75       | 100.0       | V   | 186.0         | 13.7         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |

## Wi-Fi 5G 11a\_Ch165



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 11659.958333    | ---              | 37.67            | 54.00          | 16.33       | 100.0       | H   | 328.0         | 13.3         |
| 11659.958333    | 46.40            | ---              | 74.00          | 27.60       | 100.0       | H   | 328.0         | 13.3         |

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| ---             | ---              | ---            | ---         | ---         |     | ---           | ---          |