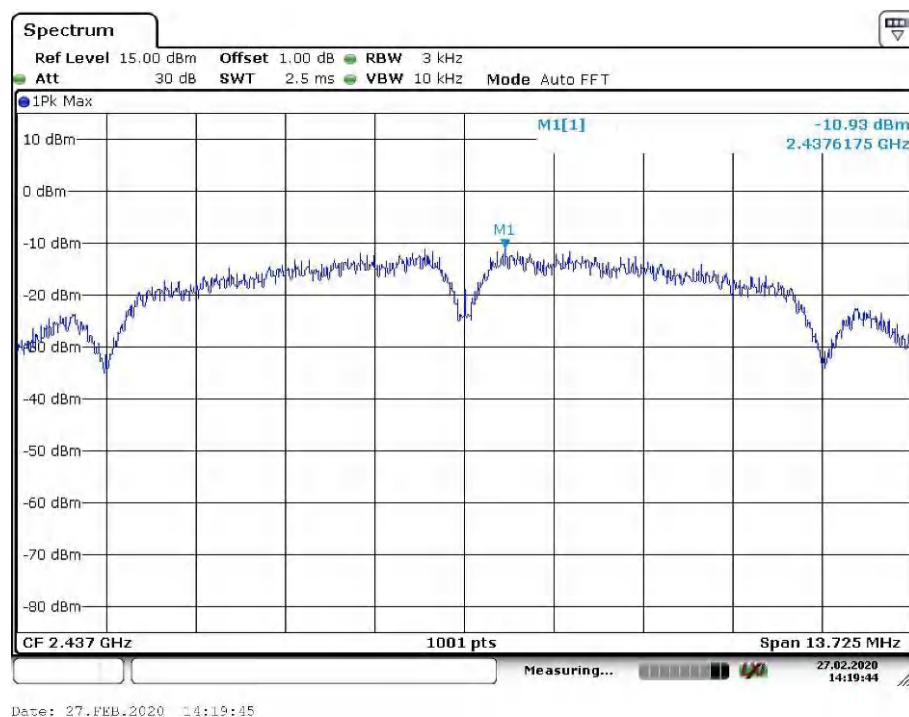
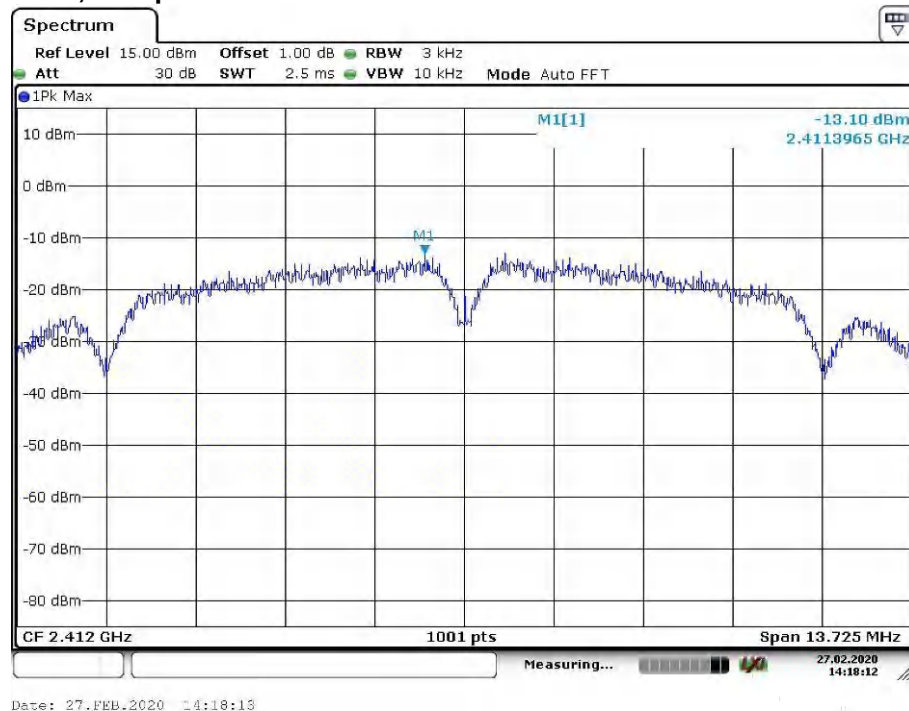


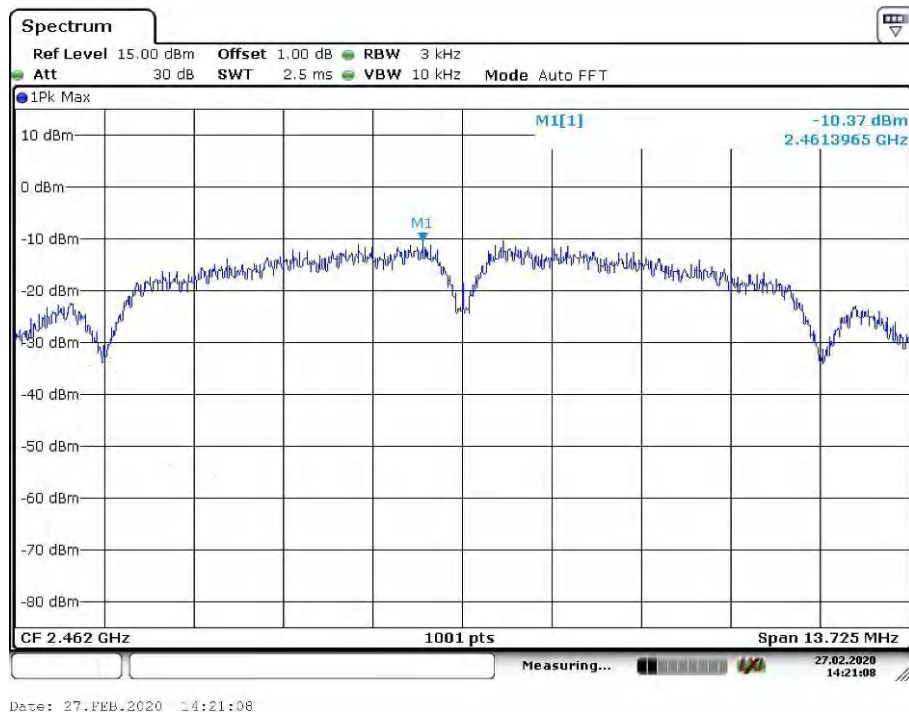
## Appendix B: Test Results of Wi-Fi 802.11 b/g/n

|                                                                                                      |           |
|------------------------------------------------------------------------------------------------------|-----------|
| <b>APPENDIX B: TEST RESULTS OF WI-FI 802.11 B/G/N.....</b>                                           | <b>1</b>  |
| <b>APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY .....</b>                          | <b>2</b>  |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                                              | <i>2</i>  |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                                              | <i>3</i>  |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>                                                          | <i>5</i>  |
| <b>APPENDIX B.2: TEST RESULTS OF 6dB BANDWIDTH .....</b>                                             | <b>7</b>  |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                                              | <i>7</i>  |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                                              | <i>10</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>                                                          | <i>13</i> |
| <b>APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH.....</b>                                              | <b>16</b> |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                                              | <i>16</i> |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                                              | <i>19</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>                                                          | <i>22</i> |
| <b>APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH.....</b> | <b>25</b> |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                                              | <i>25</i> |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                                              | <i>26</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>                                                          | <i>28</i> |
| <i>Wi-Fi 802.11 b mode, Band Edge .....</i>                                                          | <i>30</i> |
| <i>Wi-Fi 802.11 g mode, Band Edge .....</i>                                                          | <i>31</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, Band Edge.....</i>                                                     | <i>32</i> |
| <b>APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS .....</b>                               | <b>33</b> |
| <i>30MHz - 1GHz (Worst case).....</i>                                                                | <i>33</i> |
| <i>1GHz - 18GHz.....</i>                                                                             | <i>37</i> |
| <b>APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....</b>                     | <b>55</b> |
| <i>Wi-Fi 802.11 b mode, 1 Mbps.....</i>                                                              | <i>55</i> |
| <i>Wi-Fi 802.11 g mode, 6 Mbps.....</i>                                                              | <i>59</i> |
| <i>Wi-Fi 802.11 n(HT20) mode, MCS0.....</i>                                                          | <i>63</i> |
| <b>APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....</b>                             | <b>67</b> |
| <i>Wi-Fi connecting mode.....</i>                                                                    | <i>67</i> |

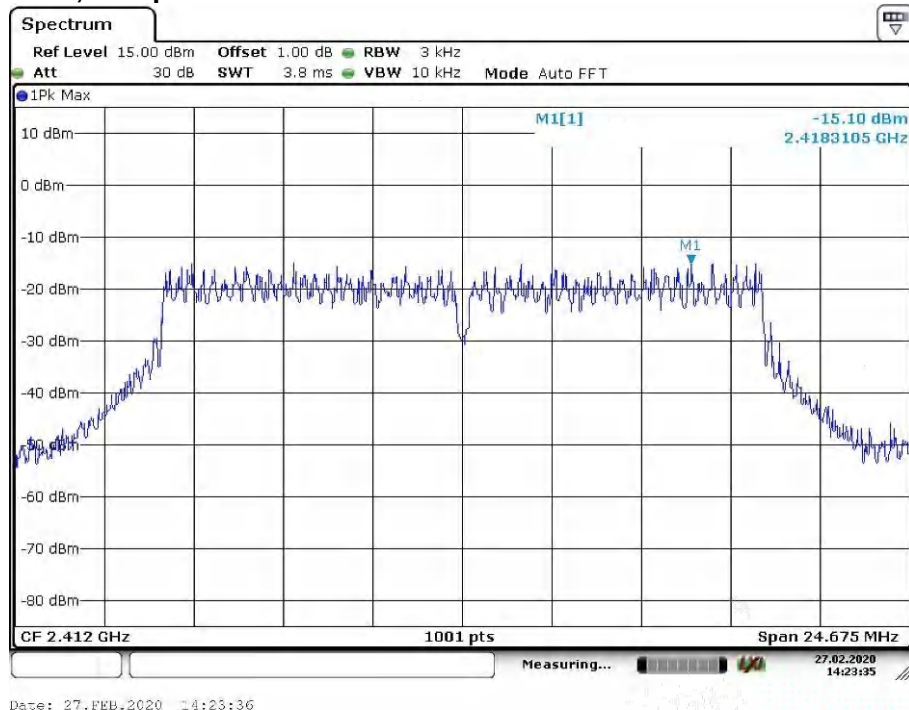
## Appendix B.1: Test Results of Conducted Power Spectral Density

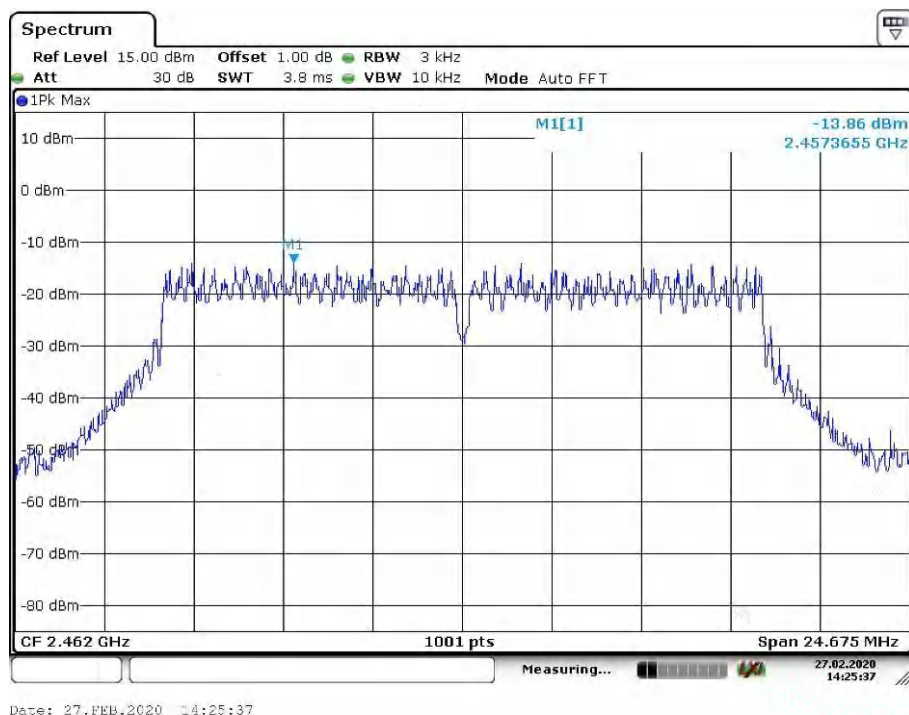
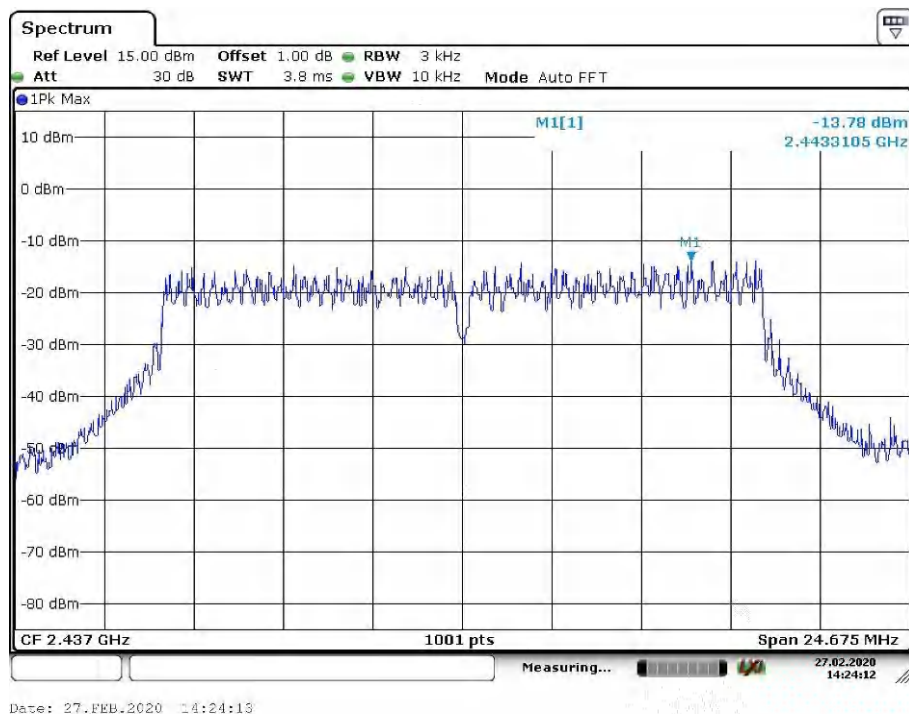
### Wi-Fi 802.11 b mode, 1 Mbps



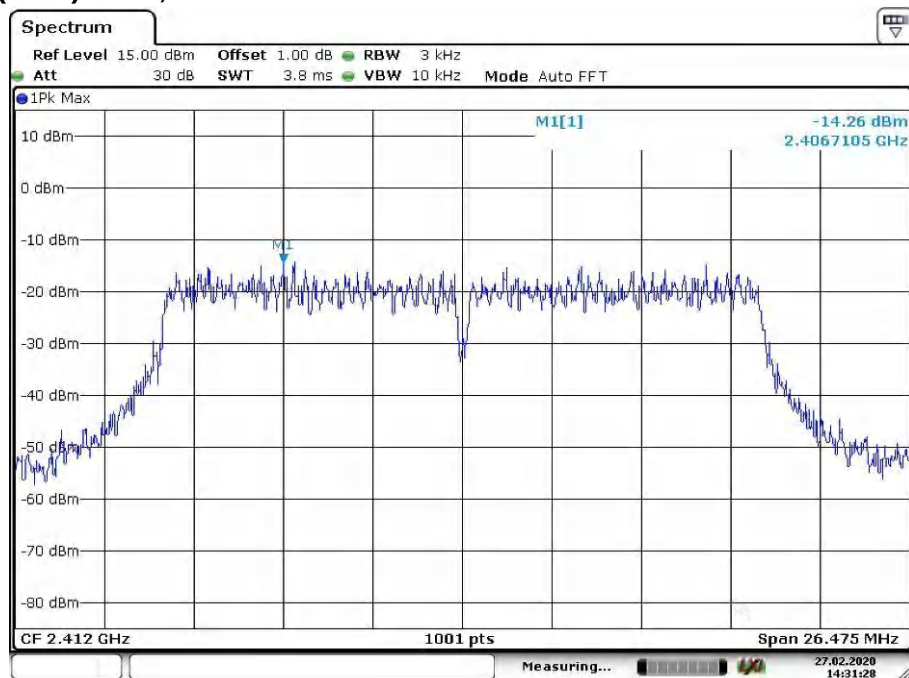


### Wi-Fi 802.11 g mode, 6 Mbps

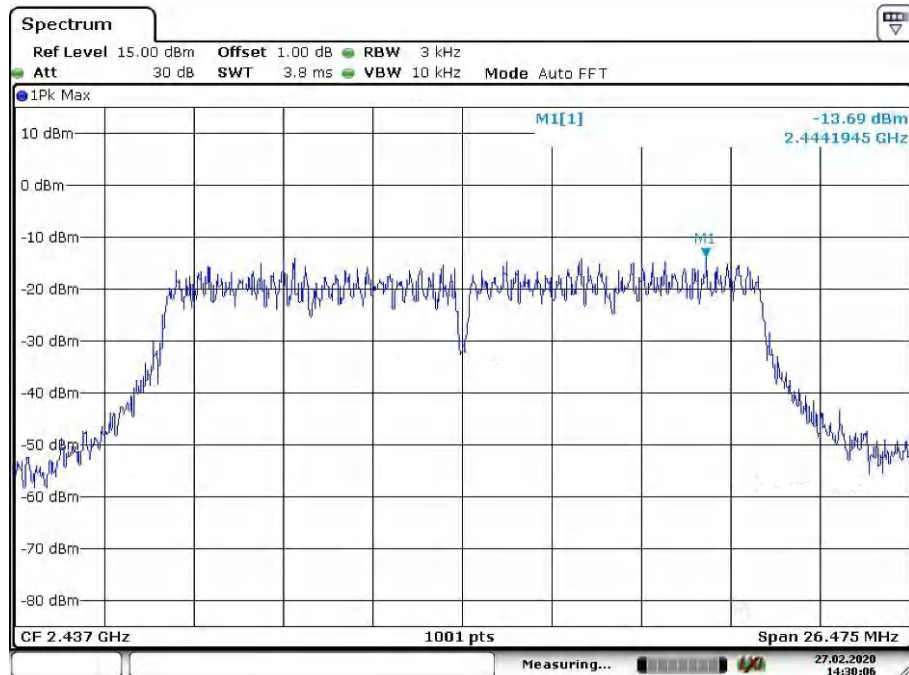




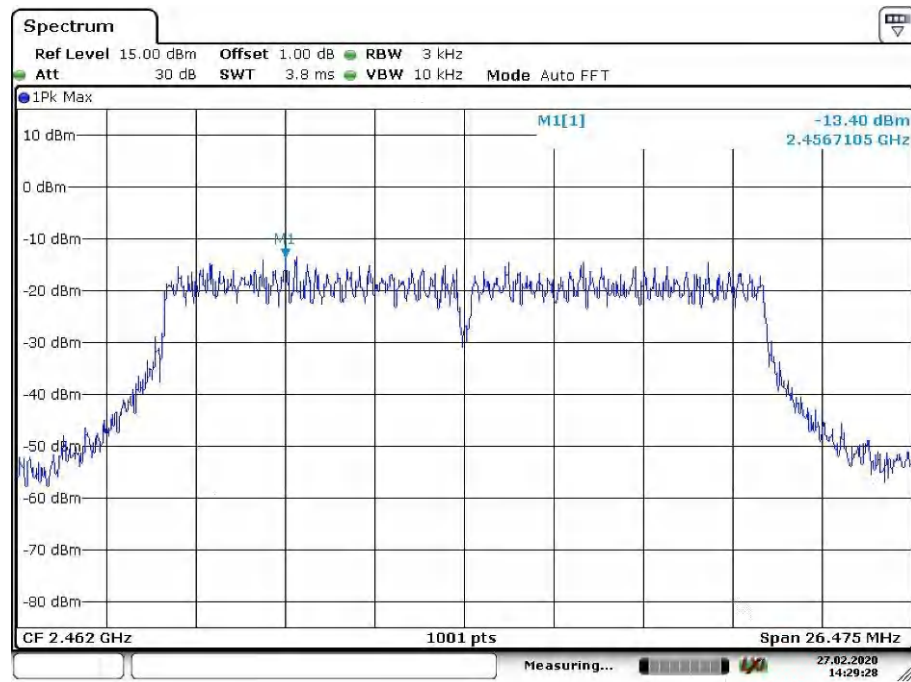
# Wi-Fi 802.11 n(HT20) mode, MCS0



Date: 27.FEB.2020 14:31:29



Date: 27.FEB.2020 14:30:07



Date: 27.FEB.2020 14:29:29

## Appendix B.2: Test Results of 6dB Bandwidth

### Wi-Fi 802.11 b mode, 1 Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11b\_20MHz))

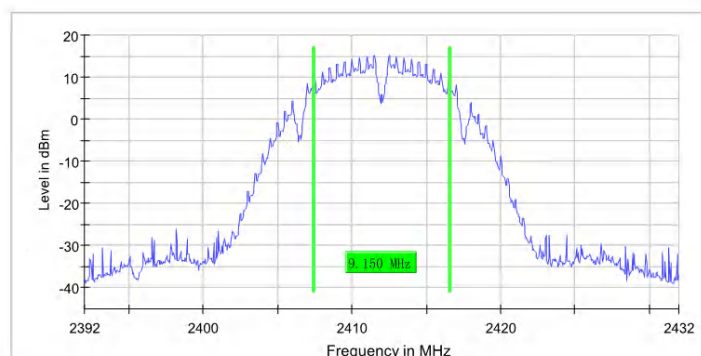
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 9.150000        | 0.500000        | ---             | 2407.425000          | 2416.575000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2412.000000         | 15.1            | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz   |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 18 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.23 dB          | 0.50 dB       |



FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11b\_20MHz))

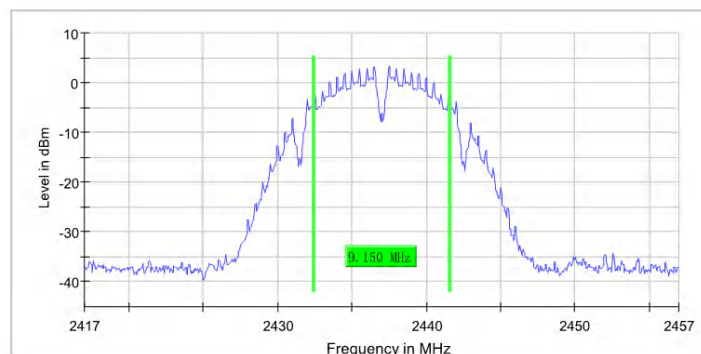
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 9.150000        | 0.500000        | ---             | 2432.425000          | 2441.575000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2437.000000         | 3.2             | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz   |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 18 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.09 dB          | 0.50 dB       |



FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11b\_20Mhz))

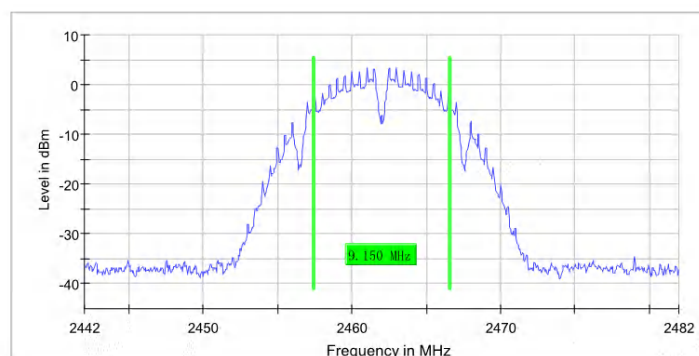
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 9.150000        | 0.500000        | ---             | 2457.425000          | 2466.575000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2462.000000         | 3.4             | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz   |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 19 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.04 dB          | 0.50 dB       |

## Wi-Fi 802.11 g mode, 6 Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11g\_20MHz))

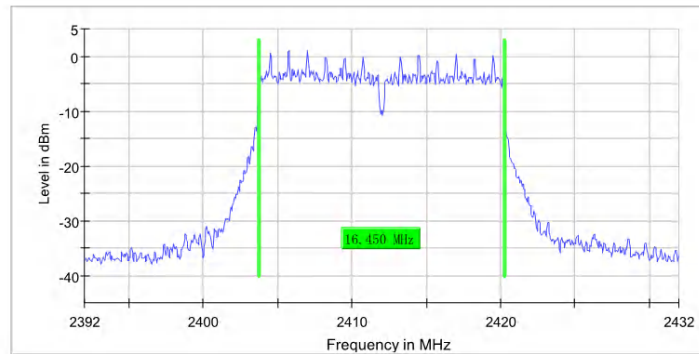
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 16.450000       | 0.500000        | ---             | 2403.775000          | 2420.225000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2412.000000         | 1.0             | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz   |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 17 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.13 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11g\_20Mhz))

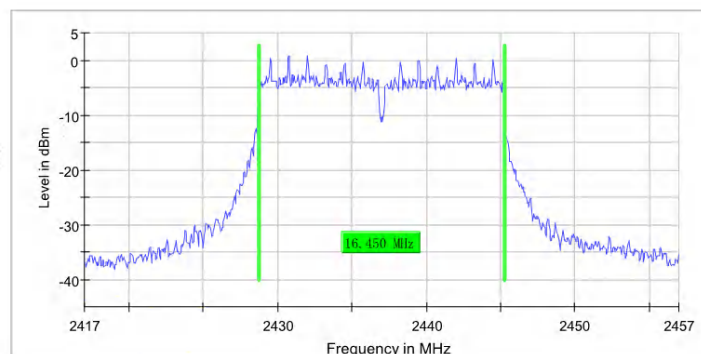
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 16.450000       | 0.500000        | ---             | 2428.775000          | 2445.225000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2437.000000         | 0.8             | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz   |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 19 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.22 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11g\_20Mhz))

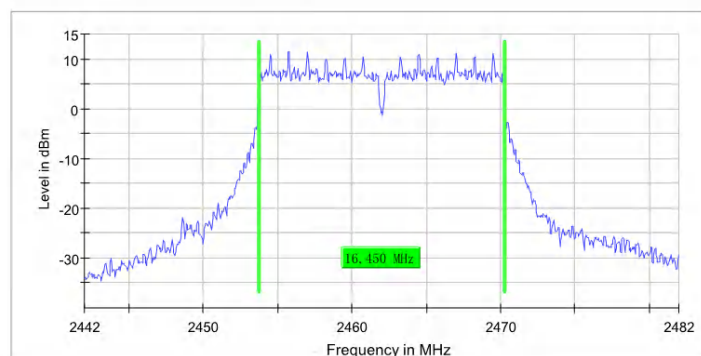
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 16.450000       | 0.500000        | ---             | 2453.775000          | 2470.225000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2462.000000         | 11.5            | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz   |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 19 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.15 dB          | 0.50 dB       |

## Wi-Fi 802.11 n(HT20) mode, MCS0

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11n\_20MHz))

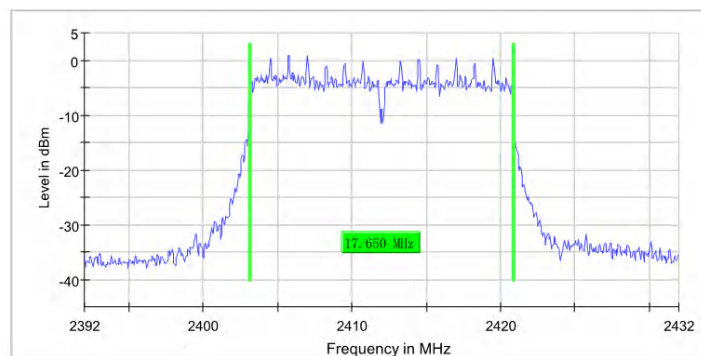
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 17.650000       | 0.500000        | ---             | 2403.175000          | 2420.825000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2412.000000         | 0.9             | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz   |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 17 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.46 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11n\_20Mhz))

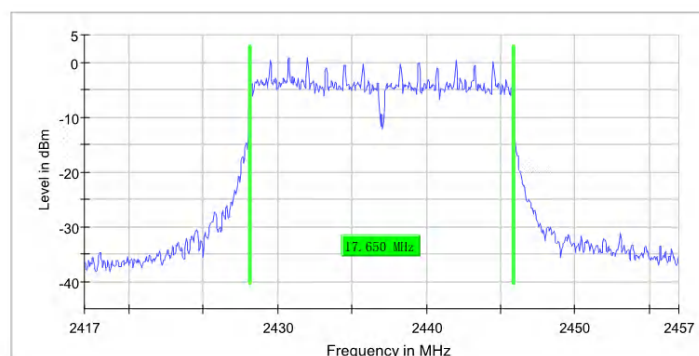
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 17.650000       | 0.500000        | ---             | 2428.175000          | 2445.825000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2437.000000         | 0.8             | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz   |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 19 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.15 dB          | 0.50 dB       |



FCC Part 47 §15.247 2400-2483.5 MHz 2017

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11n\_20Mhz))

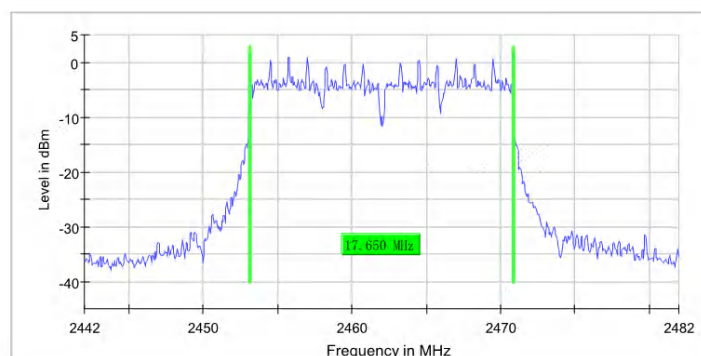
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 17.650000       | 0.500000        | ---             | 2453.175000          | 2470.825000           |

(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2462.000000         | 0.8             | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz   |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm    |
| Attenuation           | 40.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 37 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.16 dB          | 0.50 dB       |



## Appendix B.3: Test Results of 99% Bandwidth

### Wi-Fi 802.11 b mode, 1 Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11b\_20MHz))

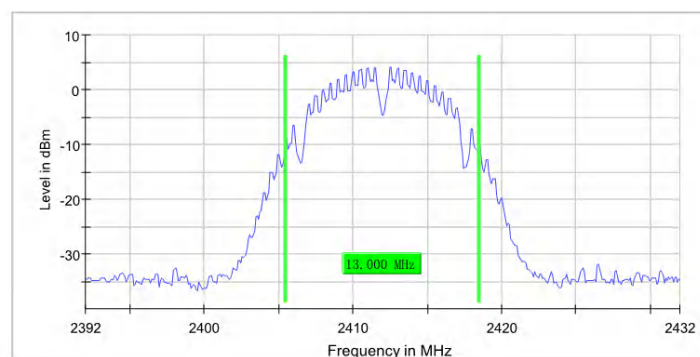
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 13.000000       | ---             | ---             | 2405.450000          | 2418.450000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2412.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz    |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 9 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.06 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11b\_20Mhz))

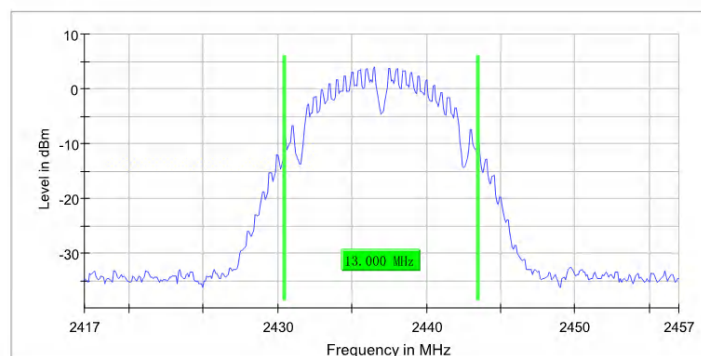
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 13.000000       | ---             | ---             | 2430.450000          | 2443.450000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2437.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz    |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 13 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.09 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11b\_20Mhz))

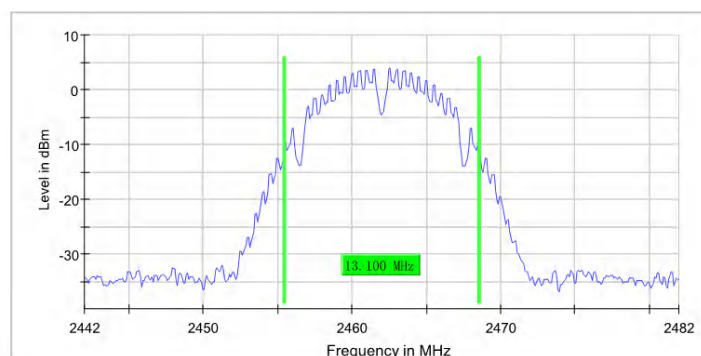
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 13.100000       | ---             | ---             | 2455.450000          | 2468.550000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2462.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz    |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 7 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.15 dB          | 0.30 dB        |

## Wi-Fi 802.11 g mode, 6 Mbps

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11g\_20MHz))

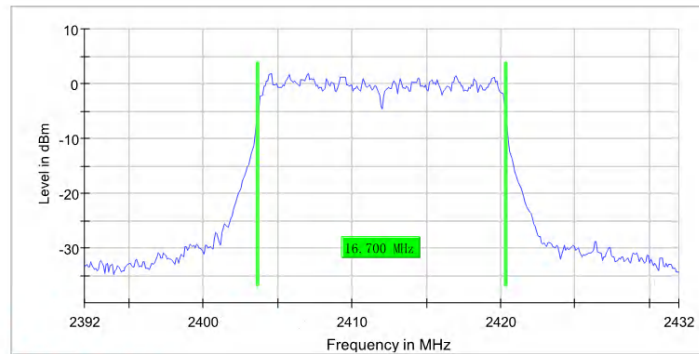
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 16.700000       | ---             | ---             | 2403.650000          | 2420.350000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2412.000000         | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz    |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 30 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.21 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11g\_20Mhz))

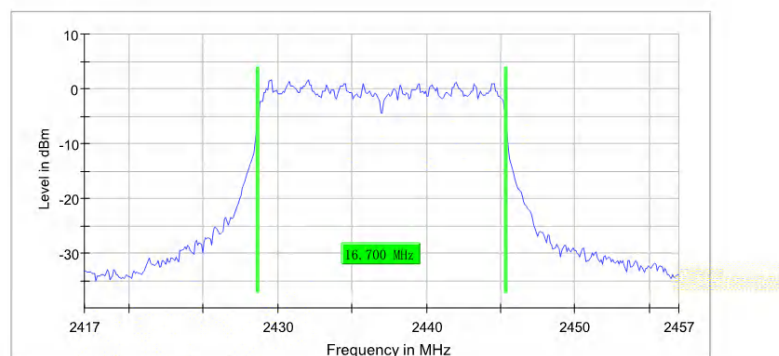
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 16.700000       | ---             | ---             | 2428.650000          | 2445.350000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2437.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz    |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 20 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.13 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11g\_20Mhz))

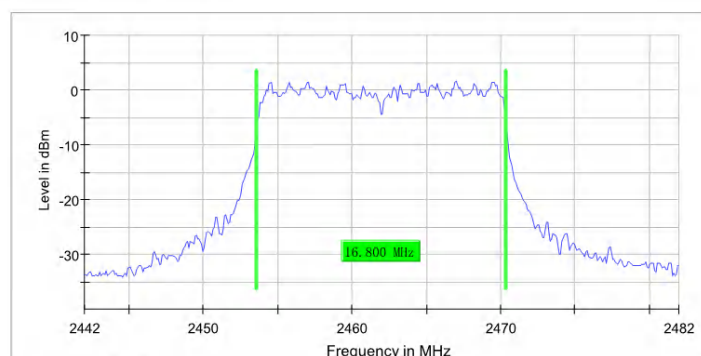
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 16.800000       | ---             | ---             | 2453.550000          | 2470.350000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2462.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz    |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 22 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.26 dB          | 0.30 dB        |



## Wi-Fi 802.11 n(HT20) mode, MCS0

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz(11n\_20Mhz))

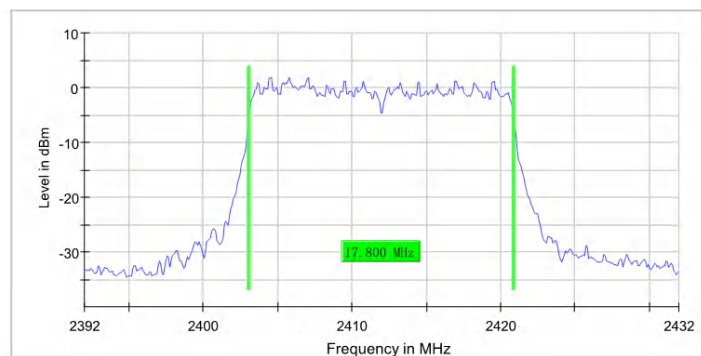
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 17.800000       | ---             | ---             | 2403.050000          | 2420.850000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2412.000000         | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz    |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.30 dB          | 0.30 dB        |
| Run                   | 25 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.13 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz(11n\_20Mhz))

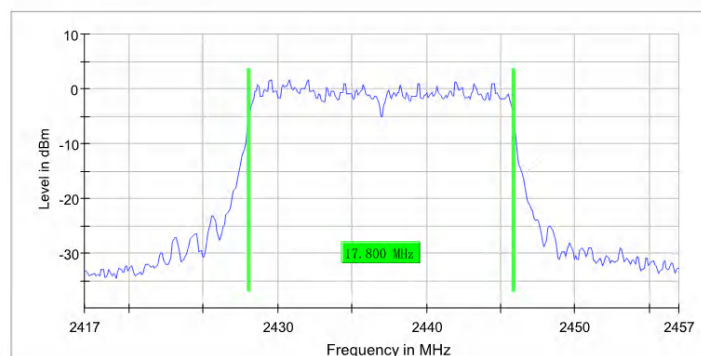
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 17.800000       | ---             | ---             | 2428.050000          | 2445.850000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2437.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz    |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 20 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.06 dB          | 0.30 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11n\_20Mhz))

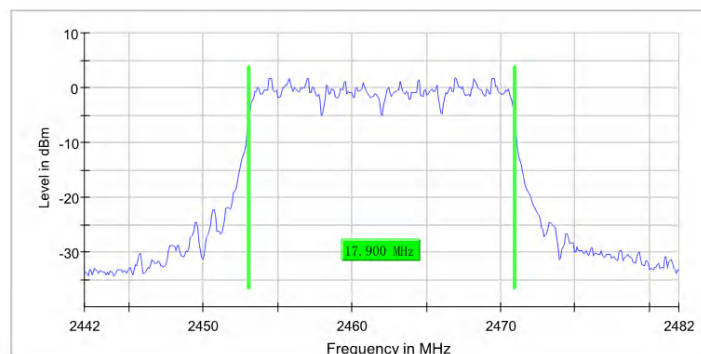
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 17.900000       | ---             | ---             | 2453.050000          | 2470.950000           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2462.000000         | PASS   |

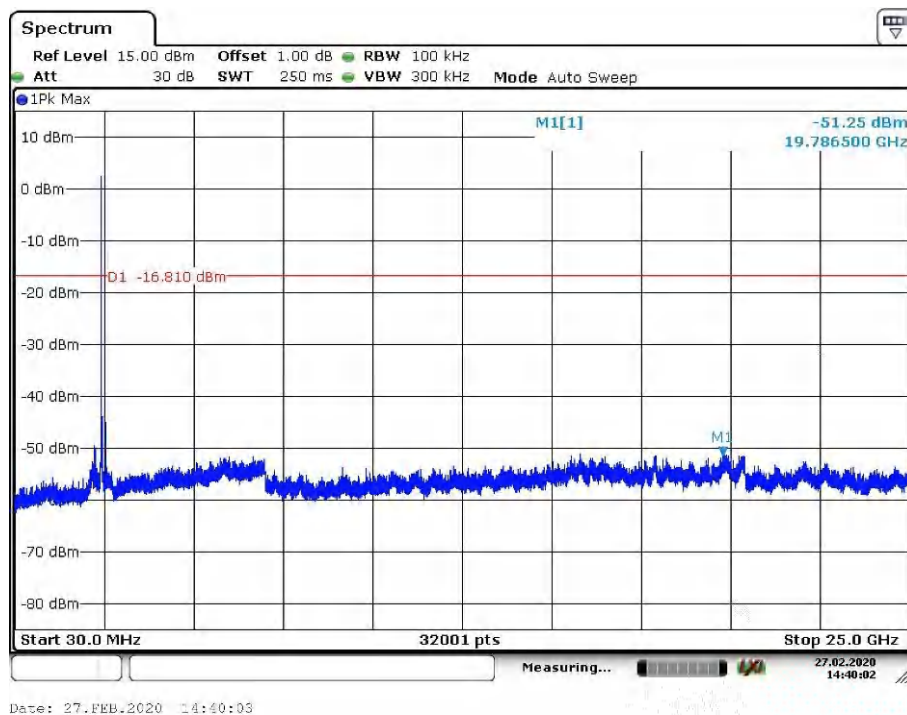
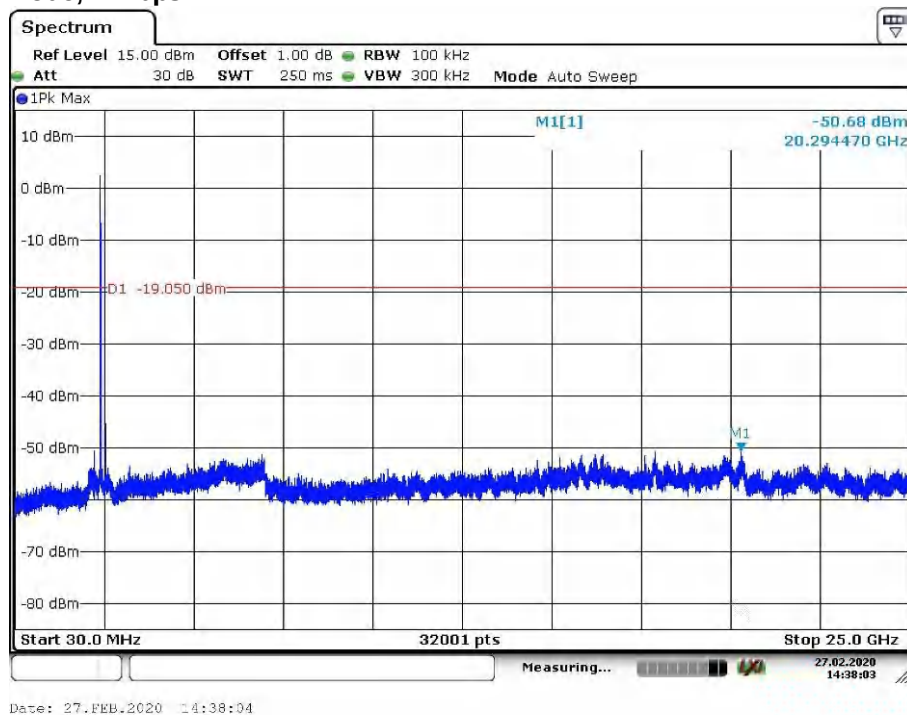


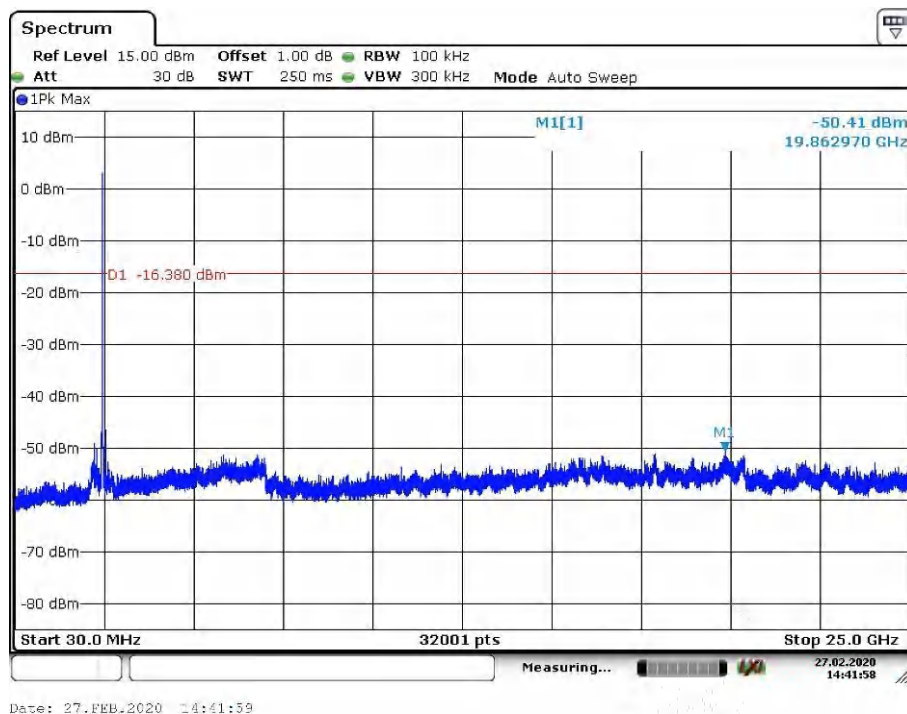
#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz    |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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       | 20.000 dBm       | 20.000 dBm     |
| Attenuation           | 40.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| 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                   | 50 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.30 dB        |

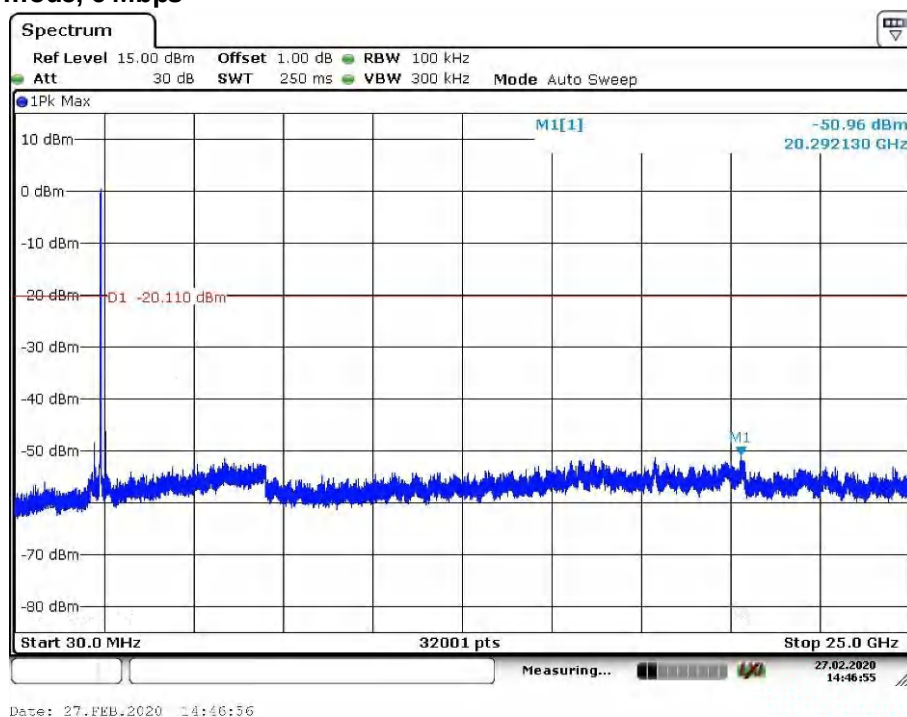
## Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

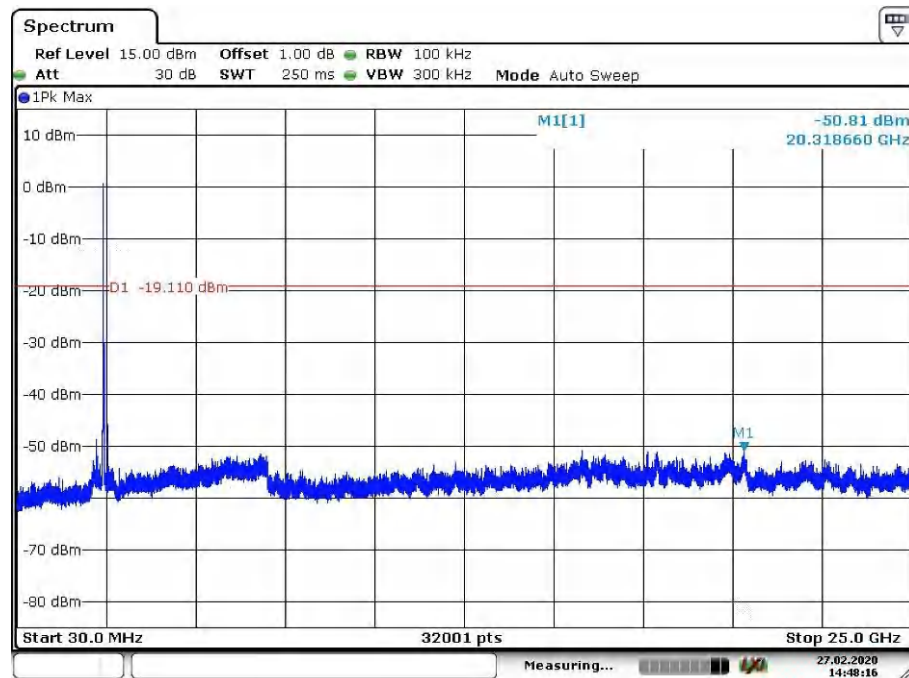
Wi-Fi 802.11 b mode, 1 Mbps



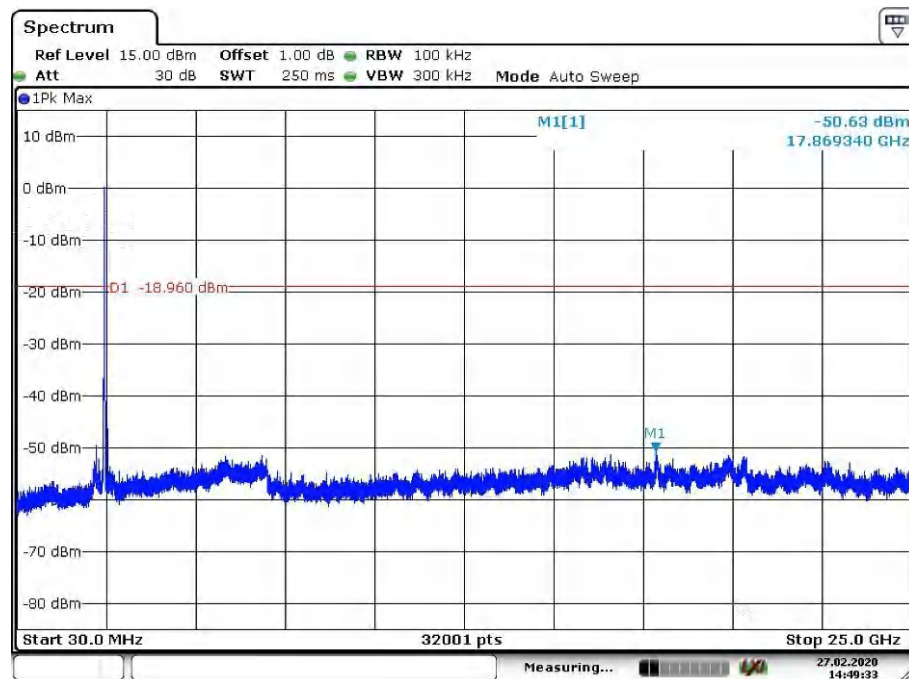


### Wi-Fi 802.11 g mode, 6 Mbps





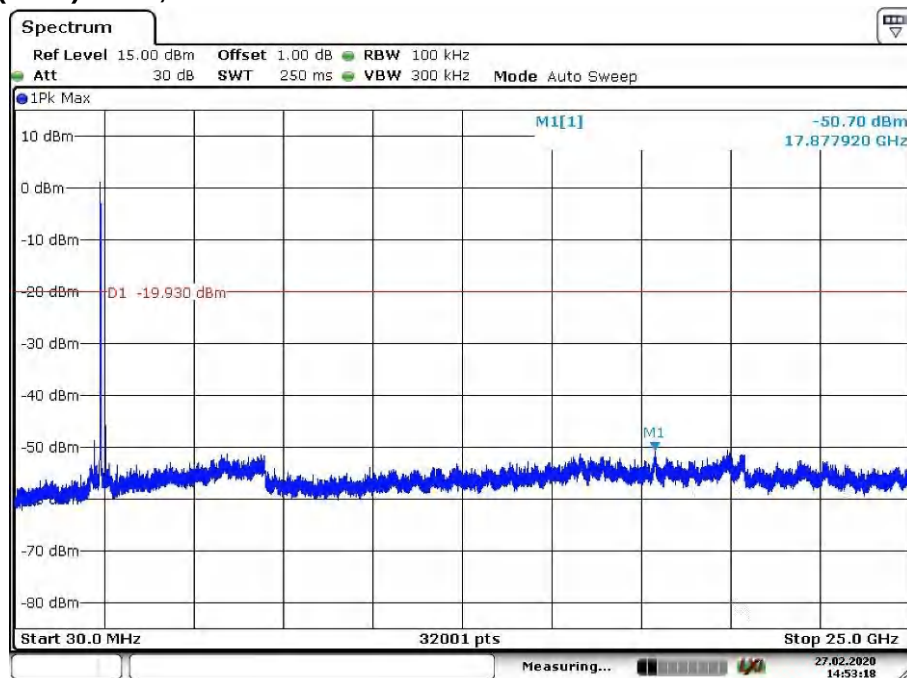
Date: 27.FEB.2020 14:48:17



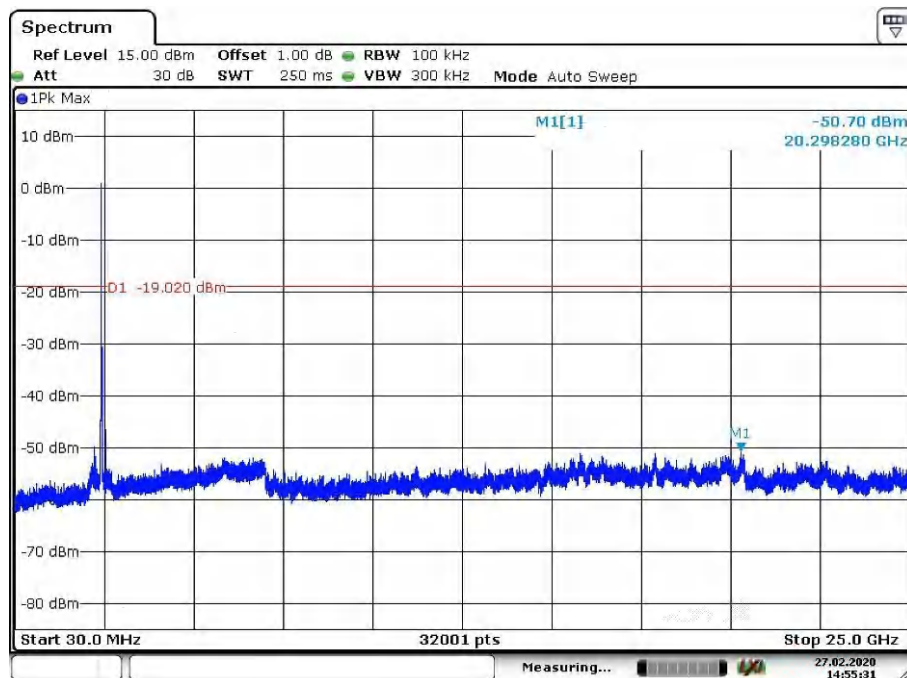
Date: 27.FEB.2020 14:49:34



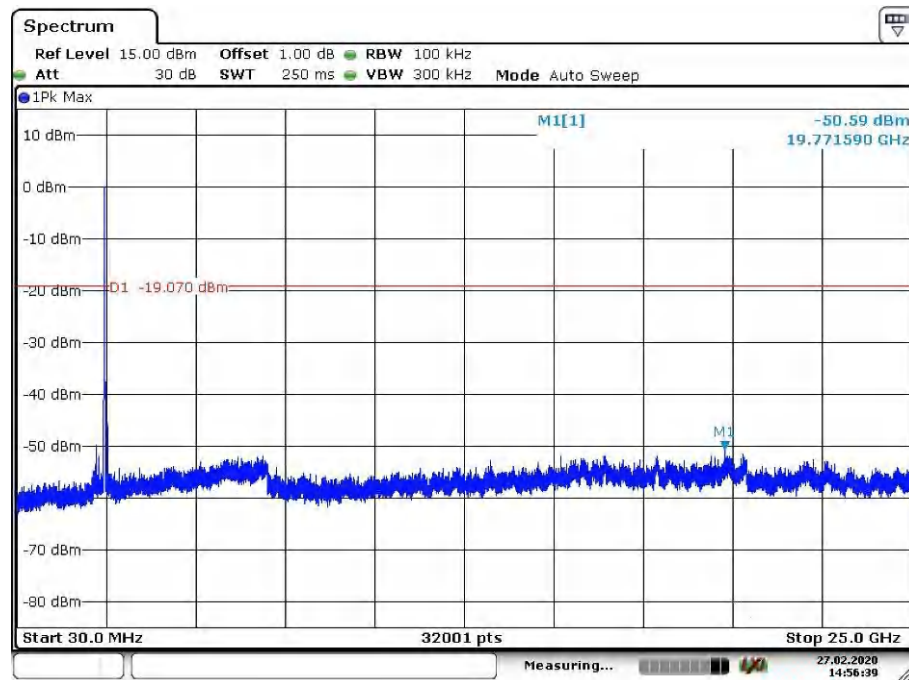
# Wi-Fi 802.11 n(HT20) mode, MCS0



Date: 27.FEB.2020 14:53:19

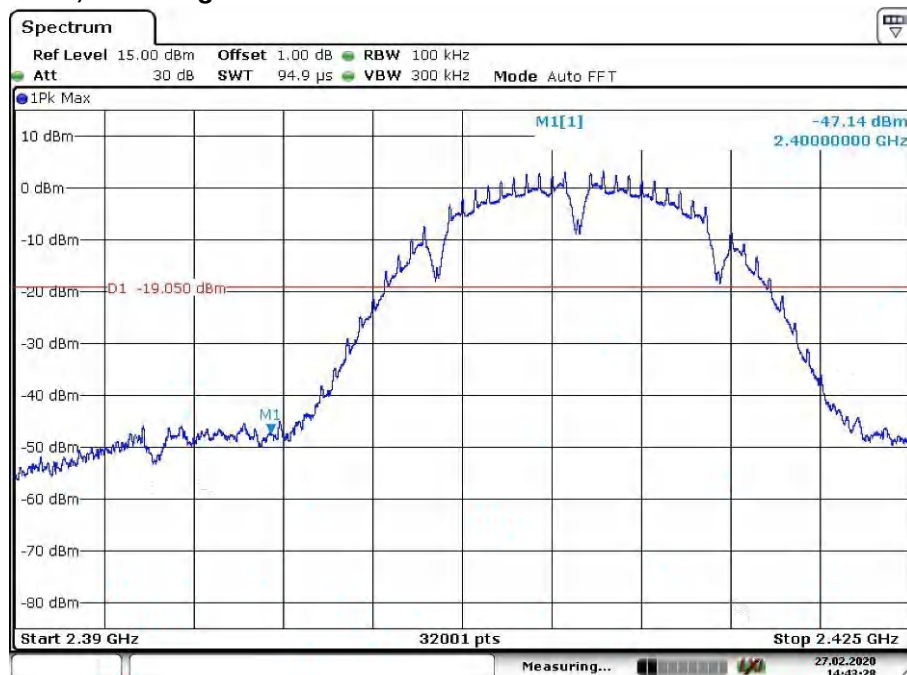


Date: 27.FEB.2020 14:55:31



Date: 27.FEB.2020 14:56:38

## Wi-Fi 802.11 b mode, Band Edge

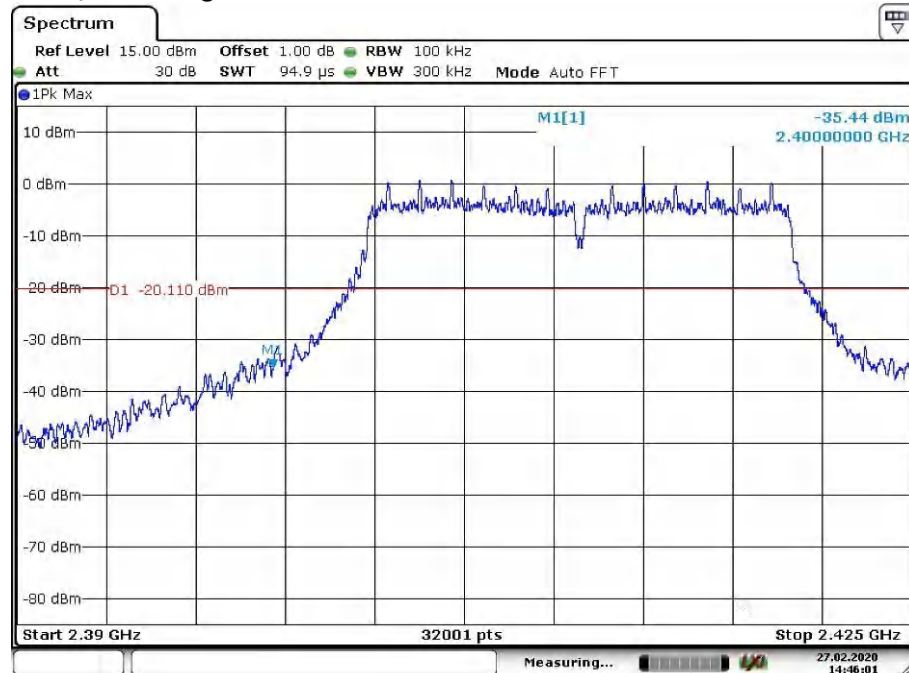


Date: 27.FEB.2020 14:43:29

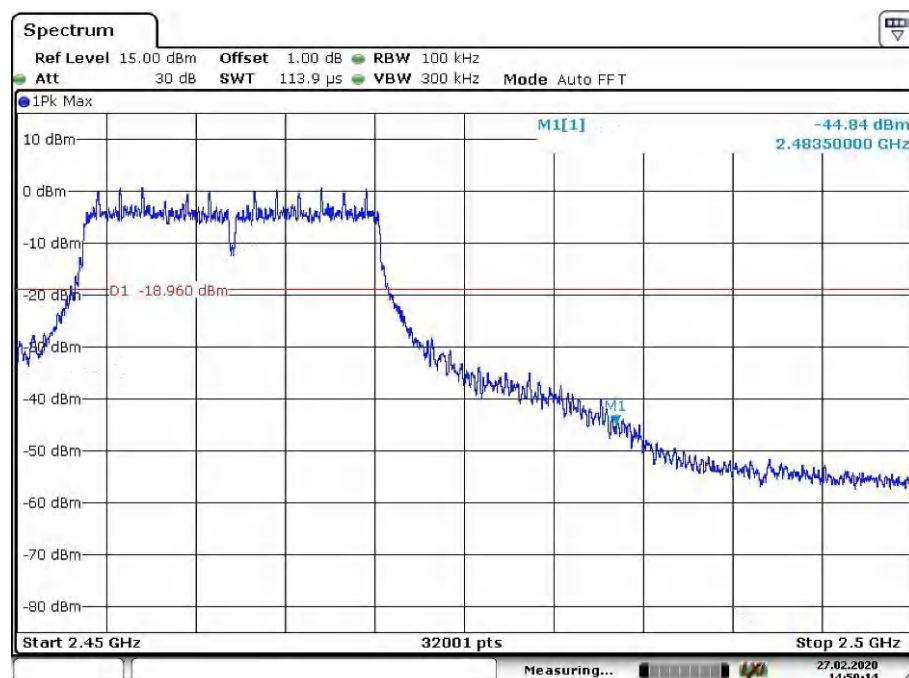


Date: 27.FEB.2020 14:42:44

## Wi-Fi 802.11 g mode, Band Edge

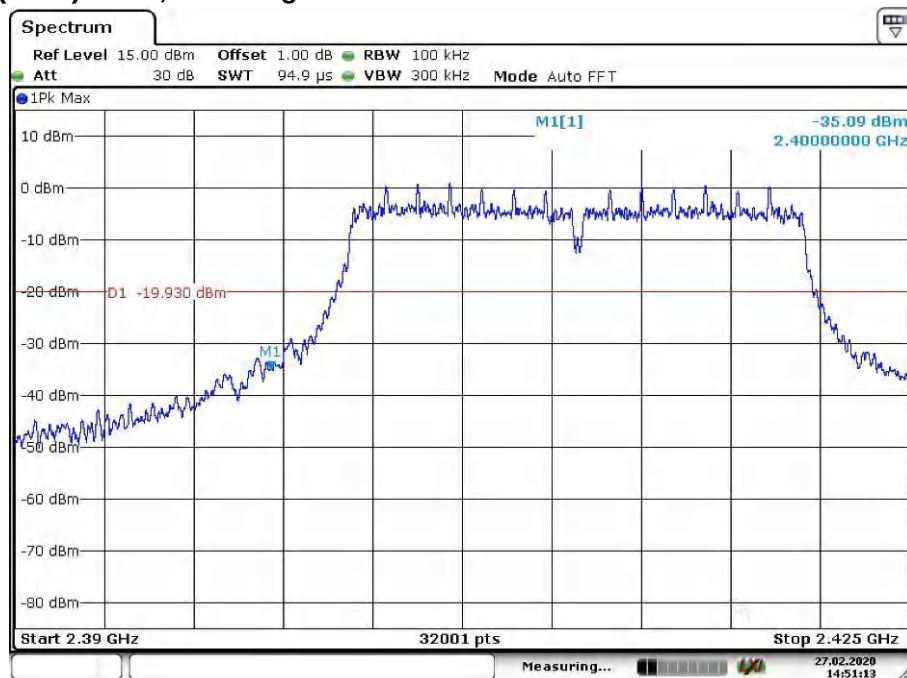


Date: 27.FEB.2020 14:46:02

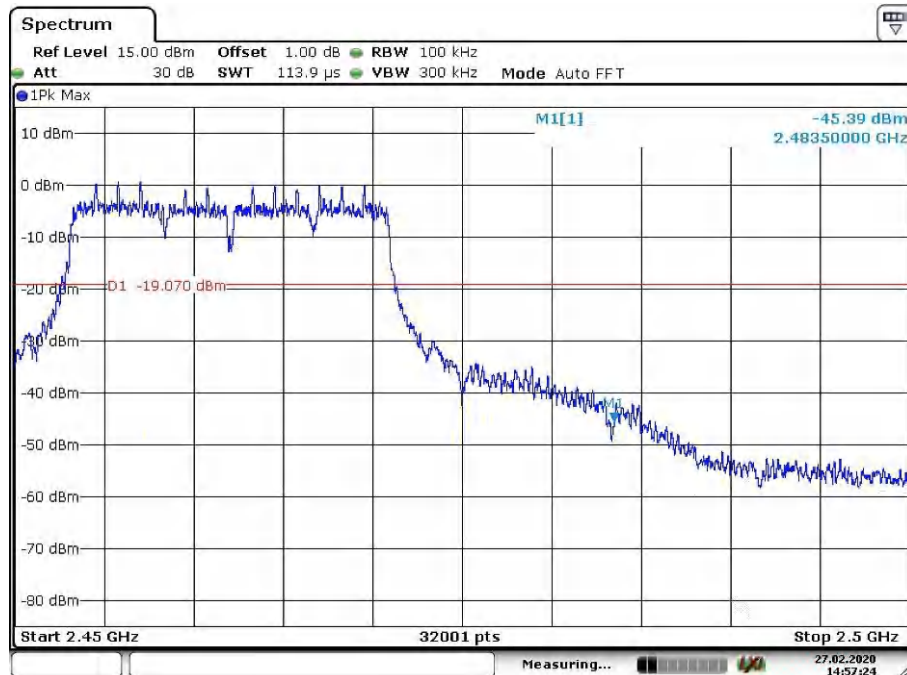


Date: 27.FEB.2020 14:50:15

## Wi-Fi 802.11 n(HT20) mode, Band Edge



Date: 27.FEB.2020 14:51:13



Date: 27.FEB.2020 14:57:24

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

## Appendix B.5: Test Results of Radiated Spurious Emissions

### 30MHz - 1GHz (Worst case)

### Wi-Fi 802.11 b mode, 1 Mbps

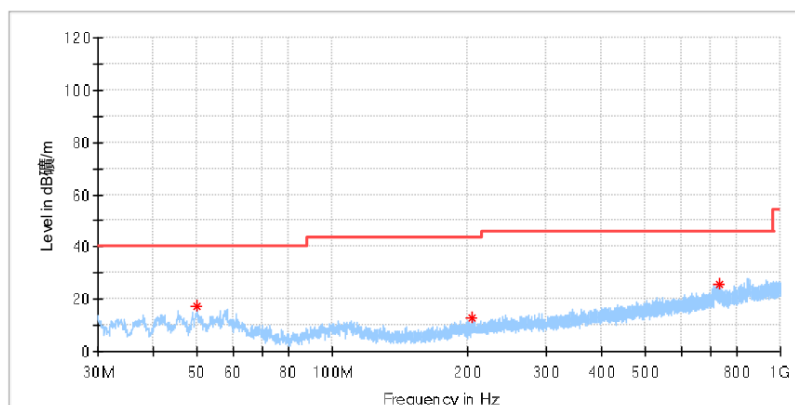
Test

1 / 4

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 49.982000       | 17.05            | ---              | 40.00          | 22.95       | 100.0       | H   | 0.0           | -18.6        |
| 205.036500      | 12.61            | ---              | 43.50          | 30.89       | 100.0       | H   | 195.0         | -19.2        |
| 728.885000      | 25.41            | ---              | 46.00          | 20.59       | 100.0       | H   | 104.0         | -7.9         |



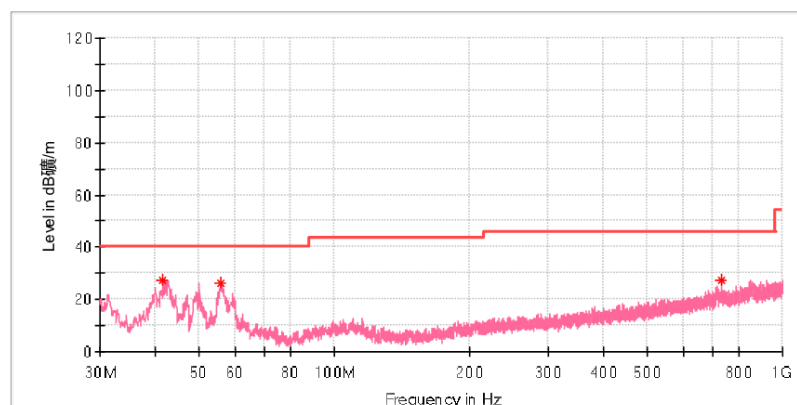
Test

2 / 4

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 41.494500       | 27.22            | ---              | 40.00          | 12.78       | 100.0       | V   | 321.0         | -20.0        |
| 55.656500       | 26.06            | ---              | 40.00          | 13.94       | 100.0       | V   | 143.0         | -18.8        |
| 728.642500      | 27.30            | ---              | 46.00          | 18.70       | 100.0       | V   | 118.0         | -7.9         |

28/2/2020

10:13:55 AM

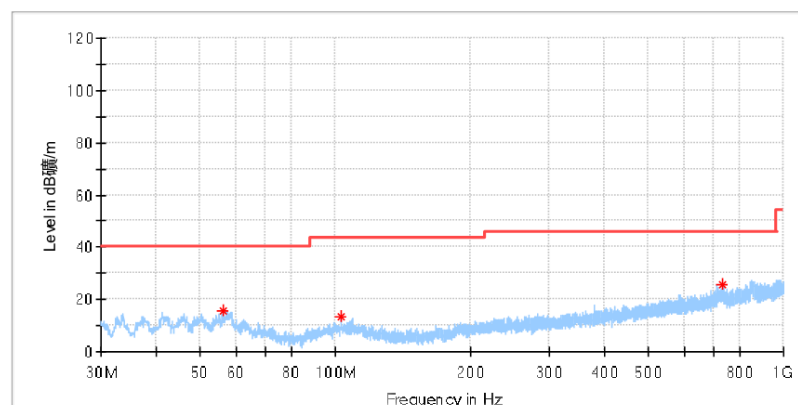
Test

3 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 56.238500       | 15.69            | ---              | 40.00          | 24.31       | 100.0       | H   | 61.0          | -18.9        |
| 103.089500      | 13.31            | ---              | 43.50          | 30.19       | 100.0       | H   | 12.0          | -19.2        |
| 728.885000      | 25.58            | ---              | 46.00          | 20.42       | 100.0       | H   | 184.0         | -7.9         |

28/2/2020

10:13:55 AM

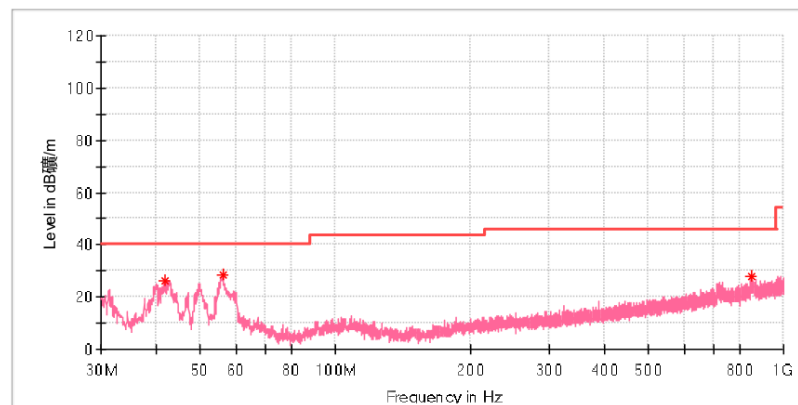
Test

4 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 41.543000       | 26.08            | ---              | 40.00          | 13.92       | 100.0       | V   | 218.0         | -20.0        |
| 56.093000       | 28.43            | ---              | 40.00          | 11.57       | 100.0       | V   | 0.0           | -18.9        |
| 848.098000      | 27.93            | ---              | 46.00          | 18.07       | 100.0       | V   | 29.0          | -5.9         |

28/2/2020

10:13:55 AM

1GHz - 18GHz  
Wi-Fi 802.11 b mode, 1 Mbps

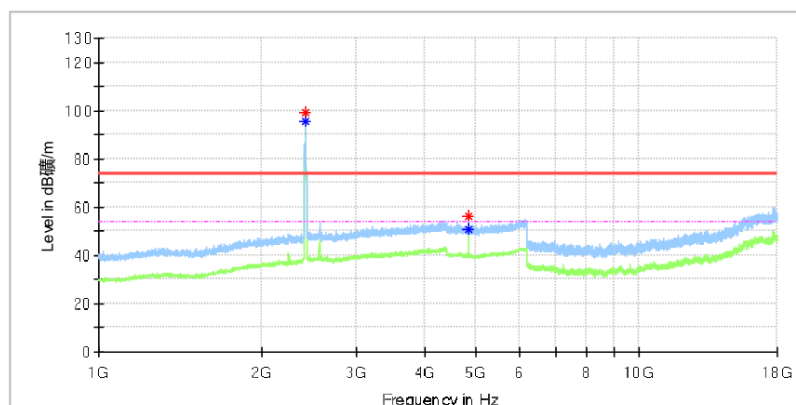
Test

1 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4823.500000     | ---              | 50.85            | 54.00          | 3.15        | 100.0       | H   | 303.0         | 13.5         |
| 4824.000000     | 56.52            | ---              | 74.00          | 17.48       | 100.0       | H   | 313.0         | 13.5         |

28/2/2020

11:05:07 AM

Note: The highest waveform in the figure is Wi-Fi Fundamental.

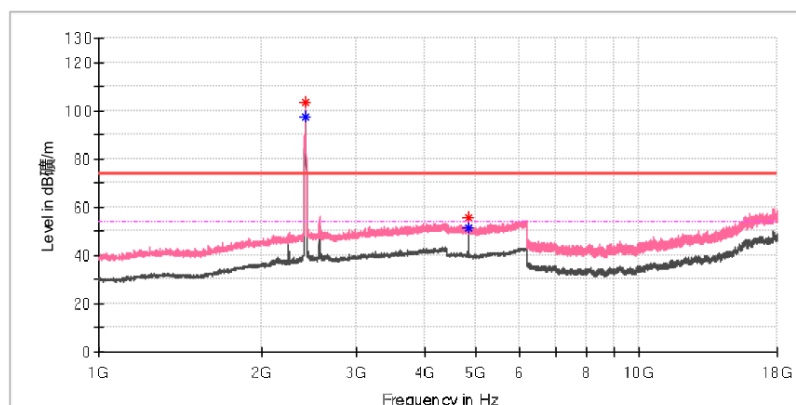
Test

2 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4823.500000     | ---              | 50.21            | 54.00          | 3.79        | 100.0       | V   | 35.0          | 13.5         |
| 4823.500000     | 55.71            | ---              | 74.00          | 18.29       | 100.0       | V   | 35.0          | 13.5         |

28/2/2020

11:05:07 AM

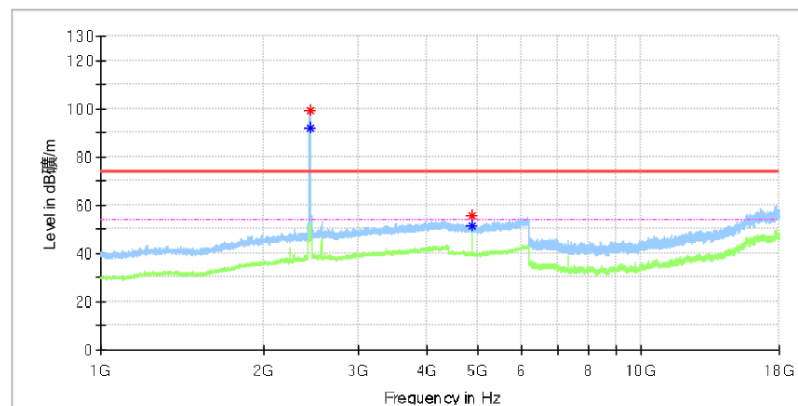
Test

3 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4874.000000     | ---              | 50.99            | 54.00          | 3.01        | 100.0       | H   | 165.0         | 13.4         |
| 4874.000000     | 55.77            | ---              | 74.00          | 18.23       | 100.0       | H   | 165.0         | 13.4         |

28/2/2020

11:05:07 AM



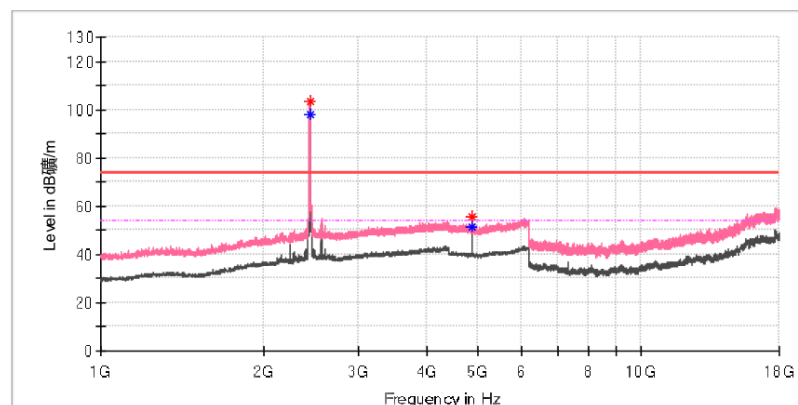
Test

4 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4874.000000     | ---              | 50.84            | 54.00          | 3.16        | 100.0       | V   | 37.0          | 13.4         |
| 4874.000000     | 55.58            | ---              | 74.00          | 18.42       | 100.0       | V   | 37.0          | 13.4         |

28/2/2020

11:05:07 AM

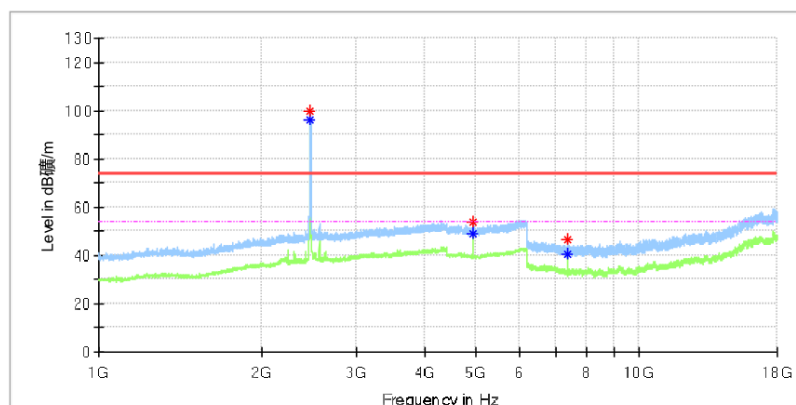
Test

5 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:  | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4924.000000     | ---              | 49.01            | 54.00          | 4.99        | 100.0       | H   | 114.0         | 13.3         |
| 4924.000000     | 53.53            | ---              | 74.00          | 20.47       | 100.0       | H   | 114.0         | 13.3         |
| 7386.883333     | ---              | 40.29            | 54.00          | 13.71       | 100.0       | H   | 353.0         | 8.2          |
| 7387.375000     | 46.42            | ---              | 74.00          | 27.58       | 100.0       | H   | 353.0         | 8.2          |

28/2/2020

11:05:07 AM

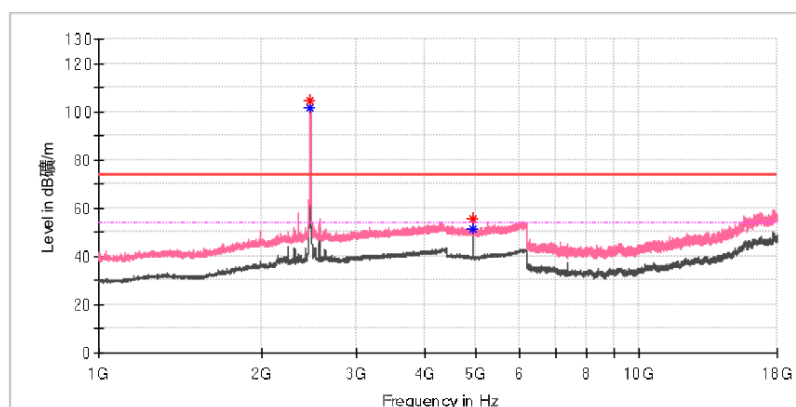
Test

6 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4924.000000     | ---              | 50.44            | 54.00          | 3.56        | 100.0       | V   | 18.0          | 13.3         |
| 4924.000000     | 55.91            | ---              | 74.00          | 18.09       | 100.0       | V   | 18.0          | 13.3         |

28/2/2020

11:05:07 AM

## Wi-Fi 802.11 g mode, 6 Mbps

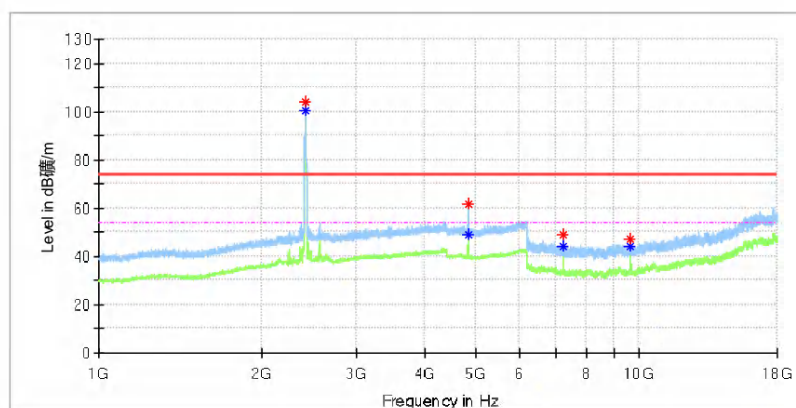
Test

1 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4821.000000     | ---              | 48.69            | 54.00          | 5.31        | 100.0       | H   | 162.0         | 13.5         |
| 4824.000000     | 61.51            | ---              | 74.00          | 12.49       | 100.0       | H   | 162.0         | 13.5         |
| 7234.958333     | ---              | 43.91            | 54.00          | 10.09       | 100.0       | H   | 355.0         | 8.6          |
| 7236.925000     | 48.95            | ---              | 74.00          | 25.05       | 100.0       | H   | 355.0         | 8.6          |
| 9647.566667     | 47.43            | ---              | 74.00          | 26.57       | 100.0       | H   | 229.0         | 10.4         |
| 9648.058333     | ---              | 44.21            | 54.00          | 9.79        | 100.0       | H   | 209.0         | 10.4         |

28/2/2020

12:31:50 PM

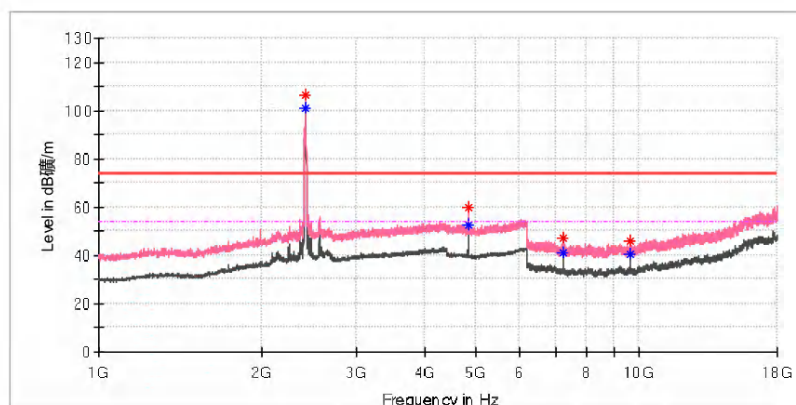
Test

2 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4824.000000     | 59.73            | ---              | 74.00          | 14.27       | 100.0       | V   | 38.0          | 13.5         |
| 4824.500000     | ---              | 52.66            | 54.00          | 1.34        | 100.0       | V   | 38.0          | 13.5         |
| 7235.941667     | 47.22            | ---              | 74.00          | 26.78       | 100.0       | V   | 269.0         | 8.6          |
| 7236.925000     | ---              | 41.04            | 54.00          | 12.96       | 100.0       | V   | 147.0         | 8.6          |
| 9648.058333     | ---              | 40.31            | 54.00          | 13.69       | 100.0       | V   | 346.0         | 10.4         |
| 9648.550000     | 46.13            | ---              | 74.00          | 27.87       | 100.0       | V   | 346.0         | 10.4         |

28/2/2020

12:31:50 PM

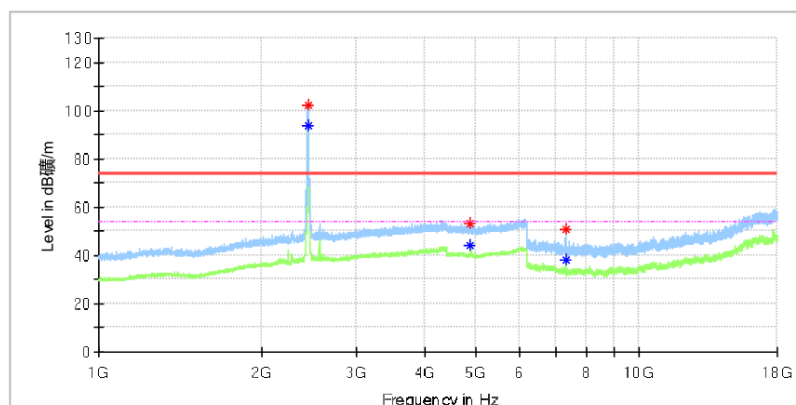
Test

3 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4862.000000     | 53.36            | ---              | 74.00          | 20.64       | 100.0       | H   | 154.0         | 13.4         |
| 4868.500000     | ---              | 44.01            | 54.00          | 9.99        | 100.0       | H   | 286.0         | 13.4         |
| 7314.608333     | ---              | 38.39            | 54.00          | 15.61       | 100.0       | H   | 356.0         | 8.2          |
| 7318.050000     | 51.01            | ---              | 74.00          | 22.99       | 100.0       | H   | 356.0         | 8.2          |

28/2/2020

12:31:50 PM

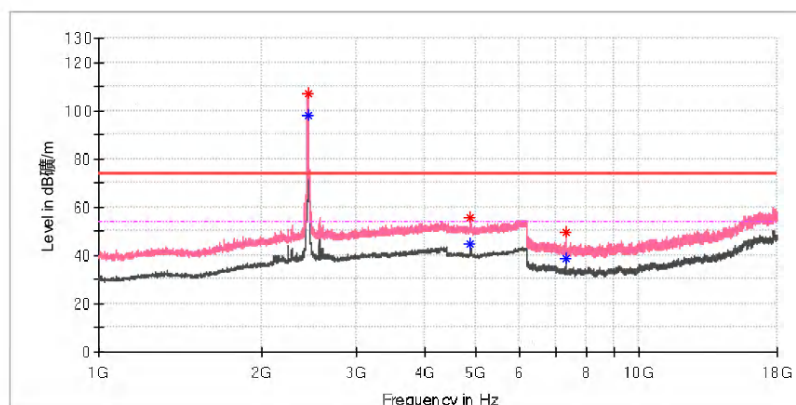
Test

4 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4874.500000     | ---              | 44.82            | 54.00          | 9.18        | 100.0       | V   | 11.0          | 13.4         |
| 4875.500000     | 55.62            | ---              | 74.00          | 18.38       | 100.0       | V   | 342.0         | 13.4         |
| 7313.625000     | ---              | 38.72            | 54.00          | 15.28       | 100.0       | V   | 173.0         | 8.2          |
| 7317.066667     | 49.38            | ---              | 74.00          | 24.62       | 100.0       | V   | 173.0         | 8.2          |

28/2/2020

12:31:50 PM



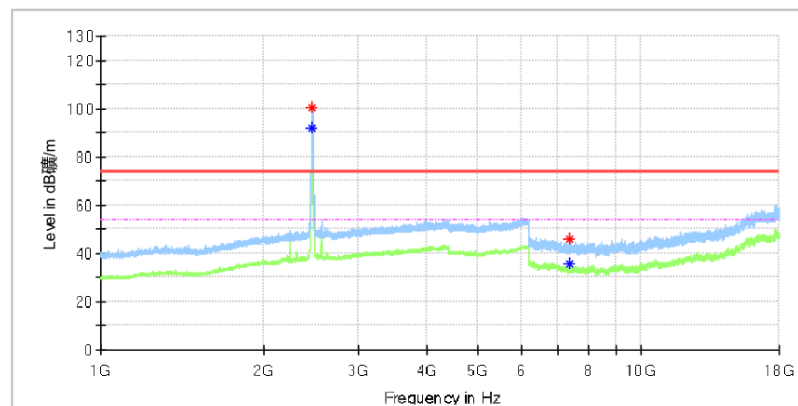
Test

5 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 7382.458333     | 45.92            | ---              | 74.00          | 28.08       | 100.0       | H   | 348.0         | 8.2          |
| 7384.916667     | ---              | 35.47            | 54.00          | 18.53       | 100.0       | H   | 348.0         | 8.2          |

28/2/2020

12:31:50 PM

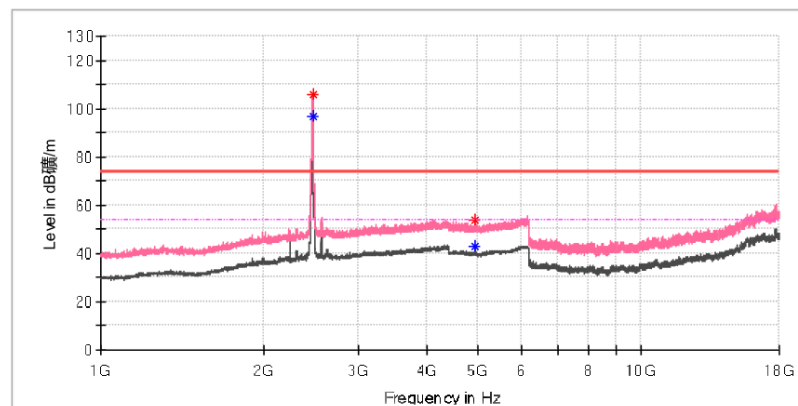
Test

6 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4923.500000     | 54.06            | —                | 74.00          | 19.94       | 100.0       | V   | 348.0         | 13.3         |
| 4924.000000     | —                | 42.72            | 54.00          | 11.28       | 100.0       | V   | 359.0         | 13.3         |

28/2/2020

12:31:50 PM

## Wi-Fi 802.11 n(HT20) mode, MCS0

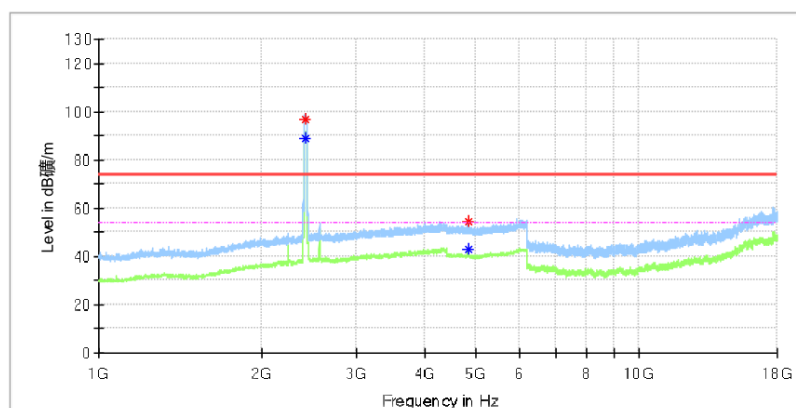
Test

1 / 6

# Test Report

## EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4823.500000     | ---              | 43.06            | 54.00          | 10.94       | 100.0       | H   | 151.0         | 13.5         |
| 4824.000000     | 54.15            | ---              | 74.00          | 19.85       | 100.0       | H   | 151.0         | 13.5         |

28/2/2020

4:48:20 PM

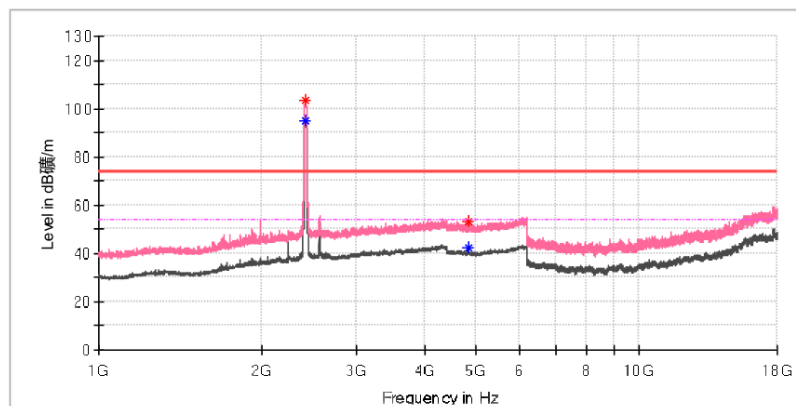
Test

2 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4818.500000     | ---              | 42.19            | 54.00          | 11.81       | 100.0       | V   | 3.0           | 13.5         |
| 4823.500000     | 53.13            | ---              | 74.00          | 20.87       | 100.0       | V   | 36.0          | 13.5         |

28/2/2020

4:48:20 PM

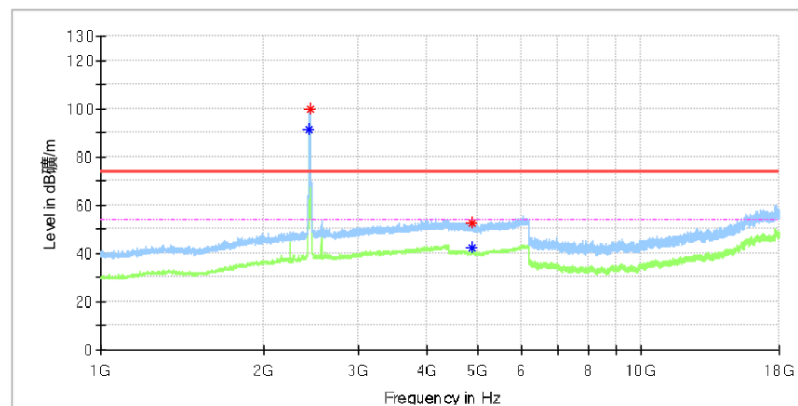
Test

3 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4873.500000     | 52.75            | ---              | 74.00          | 21.25       | 100.0       | H   | 148.0         | 13.4         |
| 4876.500000     | ---              | 42.44            | 54.00          | 11.56       | 100.0       | H   | 344.0         | 13.4         |

28/2/2020

4:48:20 PM

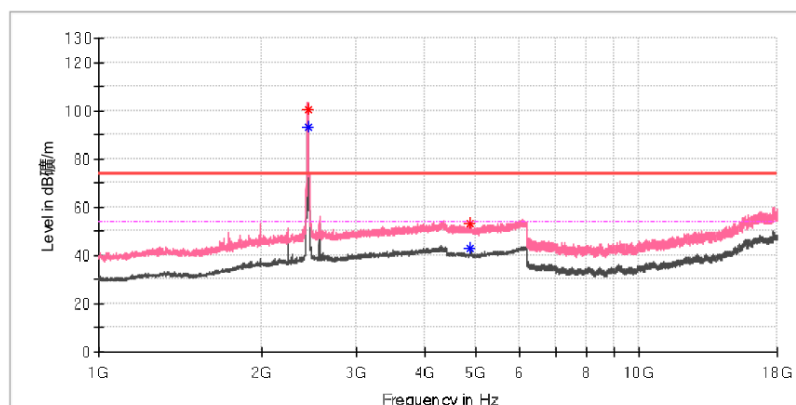
Test

4 / 6

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_Mid |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4871.000000     | 53.51            | —                | 74.00          | 20.49       | 100.0       | V   | 32.0          | 13.4         |
| 4874.500000     | —                | 42.77            | 54.00          | 11.23       | 100.0       | V   | 1.0           | 13.4         |

28/2/2020

4:48:20 PM

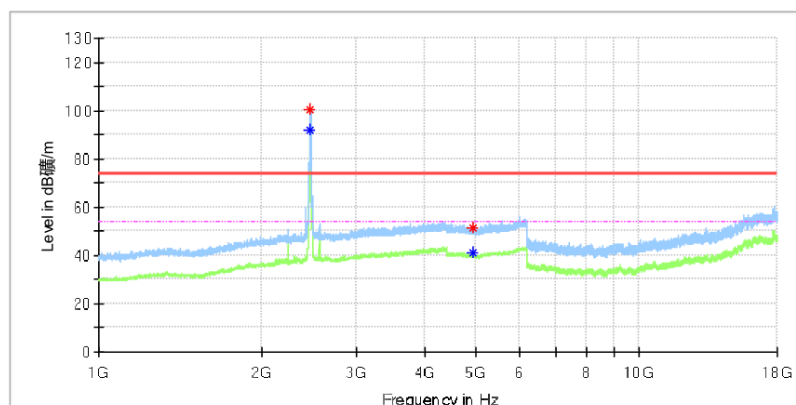
Test

5 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4925.500000     | 51.31            | ---              | 74.00          | 22.69       | 100.0       | H   | 309.0         | 13.3         |
| 4926.000000     | ---              | 41.10            | 54.00          | 12.90       | 100.0       | H   | 259.0         | 13.3         |

28/2/2020

4:48:20 PM



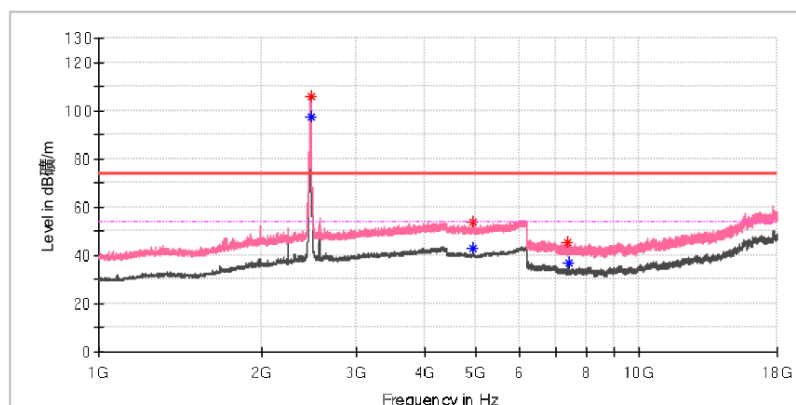
Test

6 / 6

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 4920.500000     | 53.95            | ---              | 74.00          | 20.05       | 100.0       | V   | 25.0          | 13.3         |
| 4924.000000     | ---              | 42.88            | 54.00          | 11.12       | 100.0       | V   | 43.0          | 13.3         |
| 7386.883333     | 45.34            | ---              | 74.00          | 28.66       | 100.0       | V   | 221.0         | 8.2          |
| 7392.783333     | ---              | 37.15            | 54.00          | 16.85       | 100.0       | V   | 221.0         | 8.3          |

28/2/2020

4:48:20 PM

## Appendix B.6: Test Results of Radiated Emissions in Restricted Bands Wi-Fi 802.11 b mode, 1 Mbps

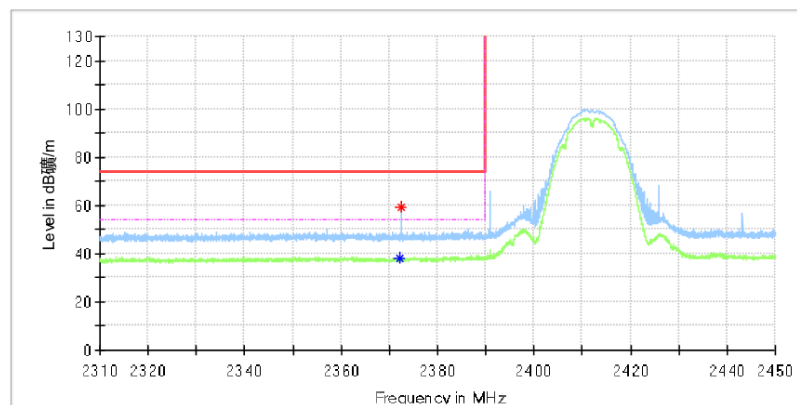
Test

1 / 4

### Test Report

#### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:  | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



#### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2372.238235     | ---              | 37.81            | 54.00          | 16.19       | 100.0       | H   | 133.0         | 6.9          |
| 2372.361765     | 59.32            | ---              | 74.00          | 14.68       | 100.0       | H   | 284.0         | 6.9          |

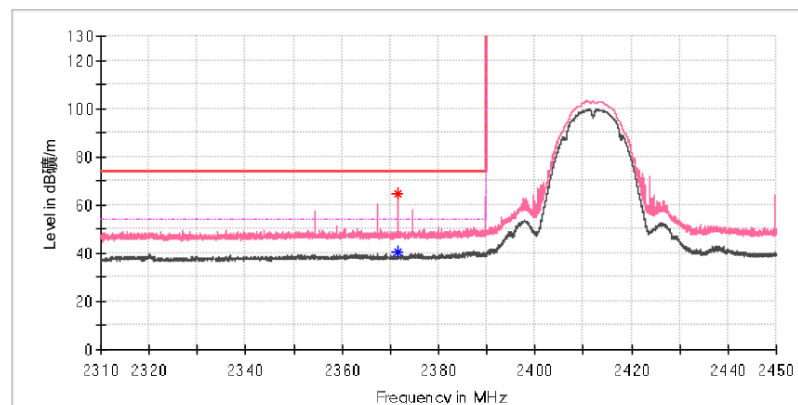
Test

2 / 4

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2371.455882     | ---              | 40.60            | 54.00          | 13.40       | 100.0       | V   | 248.0         | 6.9          |
| 2371.455882     | 64.94            | ---              | 74.00          | 9.06        | 100.0       | V   | 248.0         | 6.9          |

28/2/2020

11:10:24 AM

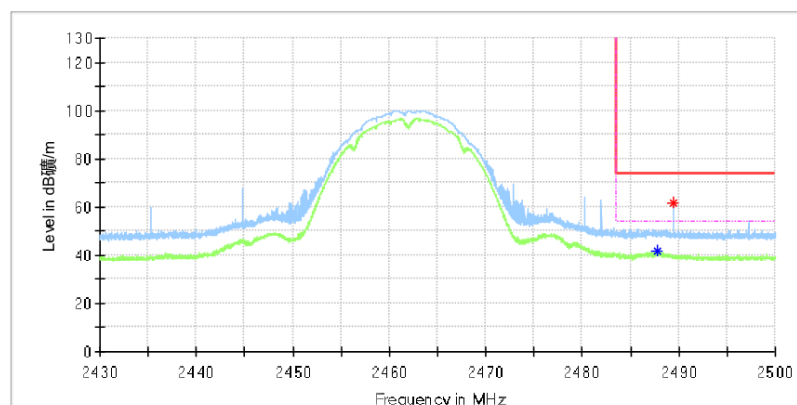
Test

3 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2487.750000     | ---              | 41.77            | 54.00          | 12.23       | 100.0       | H   | 307.0         | 7.4          |
| 2489.489706     | 61.55            | ---              | 74.00          | 12.45       | 100.0       | H   | 127.0         | 7.4          |

28/2/2020

11:10:24 AM

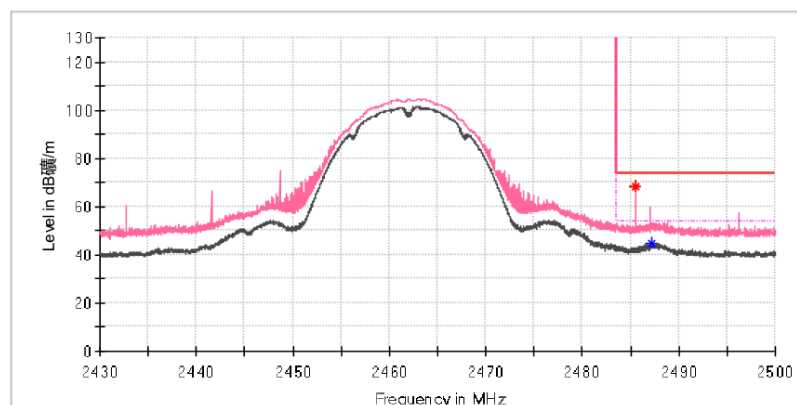
Test

4 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11b_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2485.505882     | 68.30            | ---              | 74.00          | 5.70        | 100.0       | V   | 261.0         | 7.4          |
| 2487.152941     | ---              | 44.64            | 54.00          | 9.36        | 100.0       | V   | 203.0         | 7.4          |

28/2/2020

11:10:24 AM

## Wi-Fi 802.11 g mode, 6 Mbps

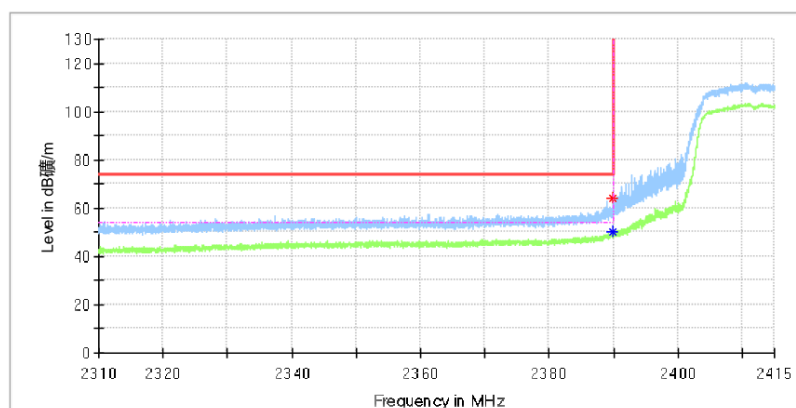
Test

1 / 4

# Test Report

## EUT Information

EUT Name: Smart Air Purifier  
Model: VAP1  
Test Mode: Wi-Fi 2.4G 11g\_TX\_Low  
Test Voltage: 120V/60Hz  
Remark: Temp 23 Humi: 47%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.815441     | 63.87            | —                | 74.00          | 10.13       | 100.0       | H   | 60.0          | 7.0          |
| 2389.846324     | —                | 49.90            | 54.00          | 4.10        | 100.0       | H   | 68.0          | 7.0          |

28/2/2020

2:16:35 PM

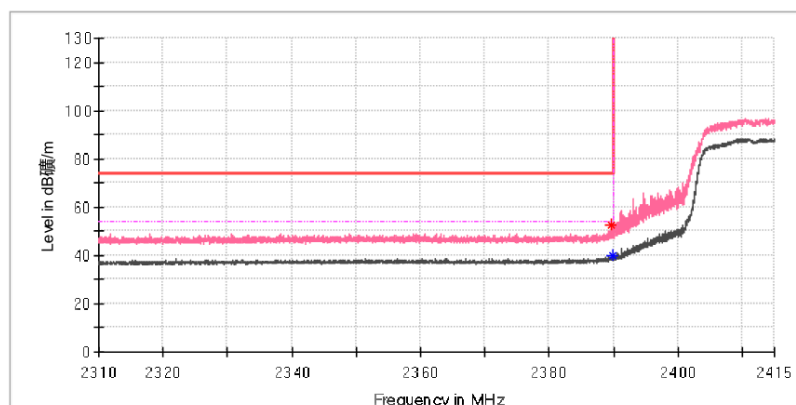
Test

2 / 4

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.738235     | 52.90            | ---              | 74.00          | 21.10       | 100.0       | V   | 144.0         | 7.0          |
| 2389.877206     | ---              | 40.18            | 54.00          | 13.82       | 100.0       | V   | 136.0         | 7.0          |

28/2/2020

2:16:35 PM

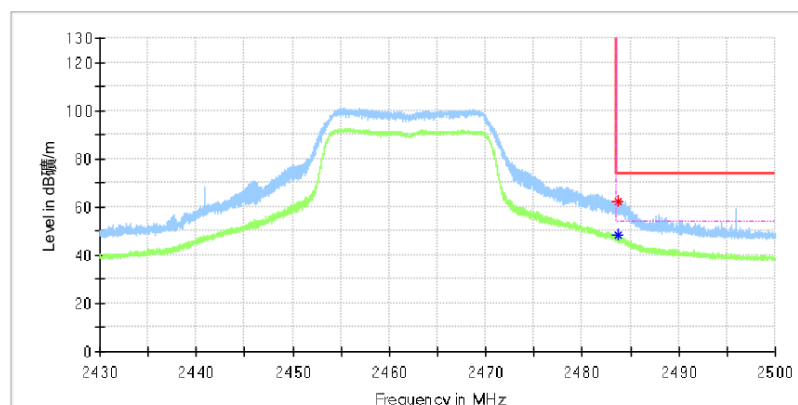
Test

3 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.663235     | ---              | 48.34            | 54.00          | 5.66        | 100.0       | H   | 52.0          | 7.4          |
| 2483.694118     | 62.53            | ---              | 74.00          | 11.47       | 100.0       | H   | 52.0          | 7.4          |

28/2/2020

2:16:35 PM



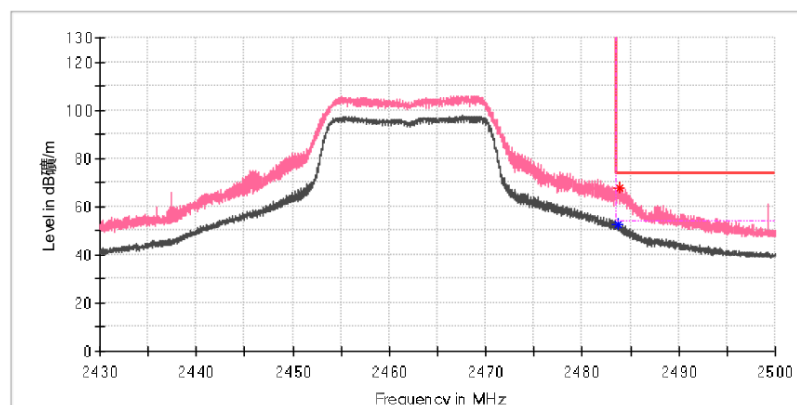
Test

4 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11g_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.776471     | ---              | 52.87            | 54.00          | 1.13        | 100.0       | V   | 199.0         | 7.4          |
| 2483.807353     | 67.81            | ---              | 74.00          | 6.19        | 100.0       | V   | 199.0         | 7.4          |

28/2/2020

2:16:35 PM

## Wi-Fi 802.11 n(HT20) mode, MCS0

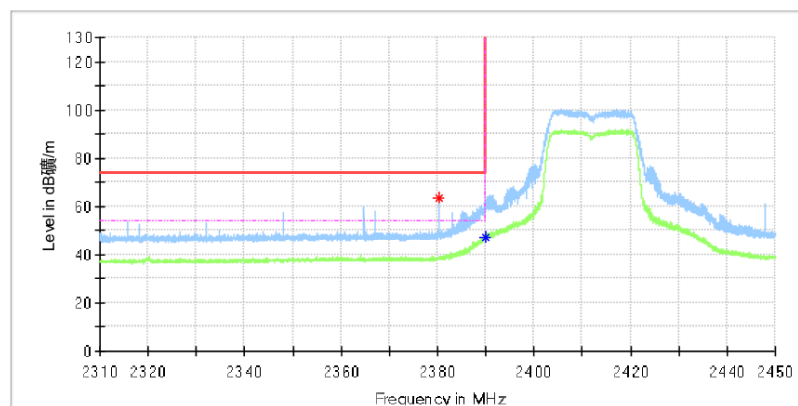
Test

1 / 4

# Test Report

## EUT Information

EUT Name: Smart Air Purifier  
Model: VAP1  
Test Mode: Wi-Fi 2.4G 11n\_TX\_Low  
Test Voltage:: 120V/60Hz  
Remark: Temp 23 Humi:47%  
Test Standard: FCC 15.247  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2380.391177     | 63.77            | ---              | 74.00          | 10.23       | 100.0       | H   | 6.0           | 7.0          |
| 2389.820588     | ---              | 47.27            | 54.00          | 6.73        | 100.0       | H   | 0.0           | 7.0          |

28/2/2020

5:01:33 PM

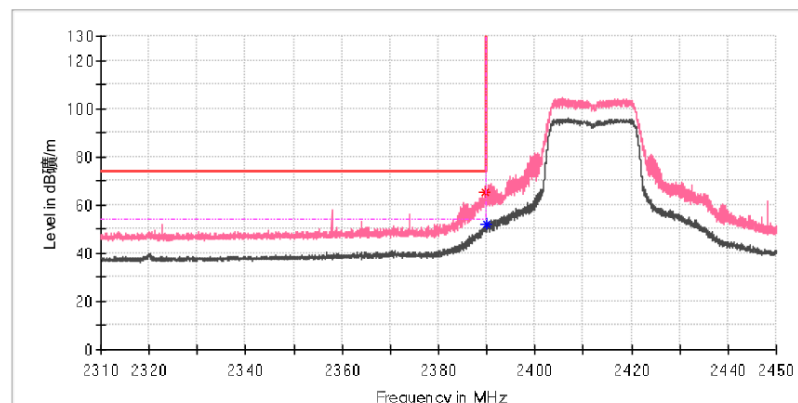
Test

2 / 4

## Test Report

### EUT Information

|                |                       |
|----------------|-----------------------|
| EUT Name:      | Smart Air Purifier    |
| Model:         | VAP1                  |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_Low |
| Test Voltage:: | 120V/60Hz             |
| Remark:        | Temp 23 Humi:47%      |
| Test Standard: | FCC 15.247            |
| Tested By:     | Kei Zhang             |
| Reviewed By:   | Terry Yin             |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2389.614706     | 65.13            | ---              | 74.00          | 8.87        | 100.0       | V   | 194.0         | 7.0          |
| 2389.882353     | ---              | 52.05            | 54.00          | 1.95        | 100.0       | V   | 186.0         | 7.0          |

28/2/2020

5:01:33 PM

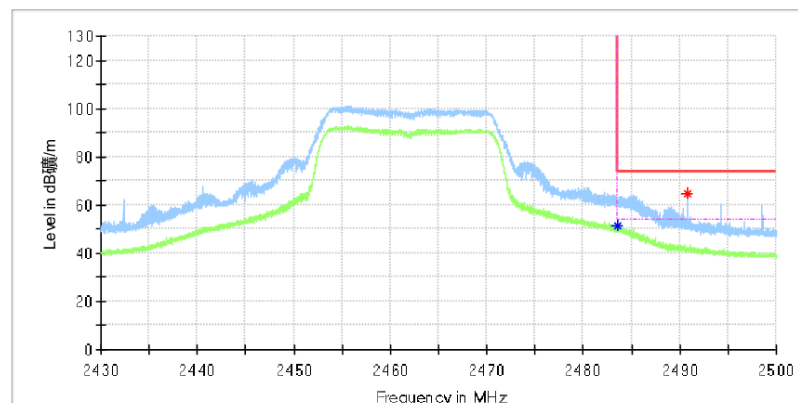
Test

3 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.550000     | ---              | 51.34            | 54.00          | 2.66        | 100.0       | H   | 56.0          | 7.4          |
| 2490.776471     | 64.67            | ---              | 74.00          | 9.33        | 100.0       | H   | 42.0          | 7.4          |

28/2/2020

5:01:33 PM

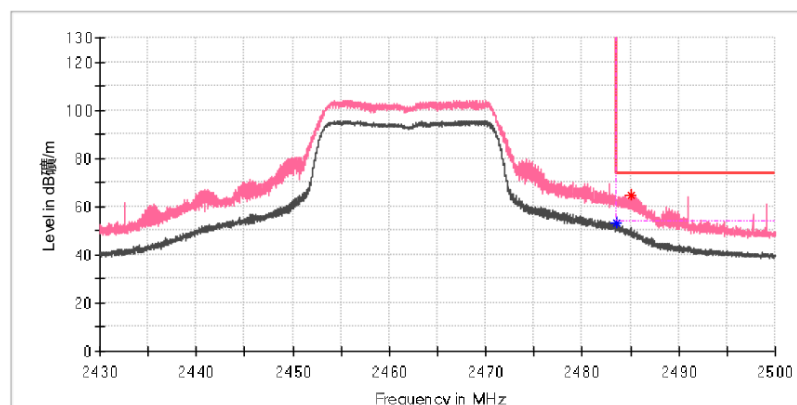
Test

4 / 4

## Test Report

### EUT Information

|                |                        |
|----------------|------------------------|
| EUT Name:      | Smart Air Purifier     |
| Model:         | VAP1                   |
| Test Mode:     | Wi-Fi 2.4G 11n_TX_High |
| Test Voltage:: | 120V/60Hz              |
| Remark:        | Temp 23 Humi:47%       |
| Test Standard: | FCC 15.247             |
| Tested By:     | Kei Zhang              |
| Reviewed By:   | Terry Yin              |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2483.601471     | ---              | 52.98            | 54.00          | 1.02        | 100.0       | V   | 192.0         | 7.4          |
| 2484.991177     | 64.55            | ---              | 74.00          | 9.45        | 100.0       | V   | 200.0         | 7.4          |

28/2/2020

5:01:33 PM

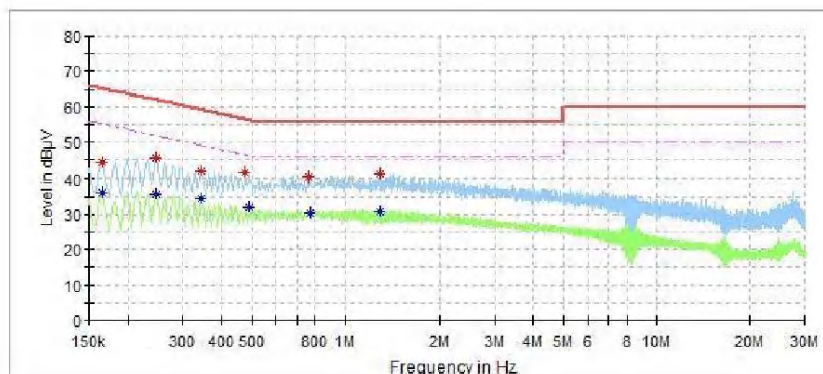
## Appendix B.7: Test Results of Conducted Emission on AC Mains

Wi-Fi connecting mode

### Test Report

#### EUT Information

|               |                       |
|---------------|-----------------------|
| EUT Name:     | Smart Air Purifier    |
| Model:        | VAP1                  |
| Order No.:    | 168148278(70)         |
| Test Mode:    | Wi-Fi connecting mode |
| Test Voltage: | AC 120V/60Hz          |
| Test By:      | Tom Guo               |
| Review By:    | Gary Chen             |
| Remark:       | FCC Part 15C          |



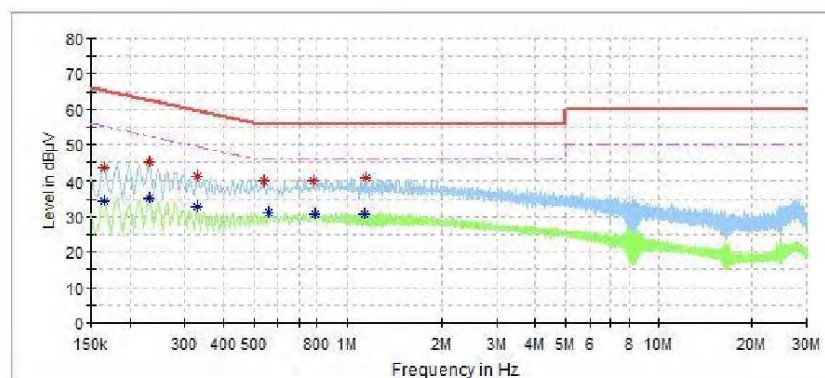
#### Critical Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.166000        | 44.15          | ---            | 65.16        | 21.01       | ---             | ---             | L1   | 9.6        |
| 0.166000        | ---            | 36.05          | 55.16        | 19.11       | ---             | ---             | L1   | 9.6        |
| 0.246000        | 45.49          | ---            | 61.89        | 16.40       | ---             | ---             | L1   | 9.6        |
| 0.246000        | ---            | 35.75          | 51.89        | 16.14       | ---             | ---             | L1   | 9.6        |
| 0.346000        | ---            | 34.45          | 49.06        | 14.60       | ---             | ---             | L1   | 9.7        |
| 0.346000        | 41.98          | ---            | 59.06        | 17.08       | ---             | ---             | L1   | 9.7        |
| 0.478000        | 41.45          | ---            | 56.37        | 14.92       | ---             | ---             | L1   | 9.7        |
| 0.494000        | ---            | 31.86          | 46.10        | 14.24       | ---             | ---             | L1   | 9.7        |
| 0.764000        | 40.25          | ---            | 56.00        | 15.75       | ---             | ---             | L1   | 9.7        |
| 0.772000        | ---            | 30.47          | 46.00        | 15.53       | ---             | ---             | L1   | 9.7        |
| 1.300000        | 41.11          | ---            | 56.00        | 14.89       | ---             | ---             | L1   | 9.7        |
| 1.300000        | ---            | 30.78          | 46.00        | 15.22       | ---             | ---             | L1   | 9.7        |

## Test Report

### EUT Information

|               |                       |
|---------------|-----------------------|
| EUT Name:     | Smart Air Purifier    |
| Model:        | VAP1                  |
| Order No.:    | 168148278(70)         |
| Test Mode:    | Wi-Fi connecting mode |
| Test Voltage: | AC 120V/60Hz          |
| Test By:      | Tom Guo               |
| Review By:    | Gary Chen             |
| Remark:       | FCC Part 15C          |



### Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|----------------|----------------|--------------|-------------|-----------------|-----------------|------|------------|
| 0.166000        | 43.67          | ---            | 65.16        | 21.48       | ---             | ---             | N    | 9.6        |
| 0.166000        | ---            | 34.64          | 55.16        | 20.52       | ---             | ---             | N    | 9.6        |
| 0.230000        | 45.09          | ---            | 62.45        | 17.36       | ---             | ---             | N    | 9.6        |
| 0.230000        | ---            | 35.15          | 52.45        | 17.30       | ---             | ---             | N    | 9.6        |
| 0.330000        | 41.09          | ---            | 59.45        | 18.36       | ---             | ---             | N    | 9.7        |
| 0.330000        | ---            | 32.81          | 49.45        | 16.64       | ---             | ---             | N    | 9.7        |
| 0.540000        | 39.77          | ---            | 56.00        | 16.23       | ---             | ---             | N    | 9.7        |
| 0.560000        | ---            | 31.31          | 46.00        | 14.69       | ---             | ---             | N    | 9.7        |
| 0.780000        | 39.59          | ---            | 56.00        | 16.41       | ---             | ---             | N    | 9.7        |
| 0.788000        | ---            | 30.73          | 46.00        | 15.27       | ---             | ---             | N    | 9.7        |
| 1.136000        | ---            | 30.73          | 46.00        | 15.27       | ---             | ---             | N    | 9.7        |
| 1.152000        | 40.71          | ---            | 56.00        | 15.29       | ---             | ---             | N    | 9.7        |