

# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2108017501EW | Radio Specification | WIFI 2.4G     |
| Test sample No. | YPHT21080175003 | Model No.           | E554          |
| Start test date | 2021-08-16      | Finish date         | 2021-08-16    |
| Temperature     | 25.8°C          | Humidity            | 34%           |
| Test Engineer   | Weiyang Xiang   | Auditor             | Xiaodong Zheo |

| Appendix clause | Test item                                    | Result |
|-----------------|--|--------|
| A               | Conducted Peak Output Power                  | PASS   |
| B               | Power Spectral Density                       | PASS   |
| C               | 6 dB Bandwidth                               | PASS   |
| D               | 99% Occupied Bandwidth                       | PASS   |
| E               | Duty Cycle                                   | PASS   |
| F               | Band edge and Spurious Emissions (conducted) | PASS   |

**Appendix A: Conducted Peak Output Power**

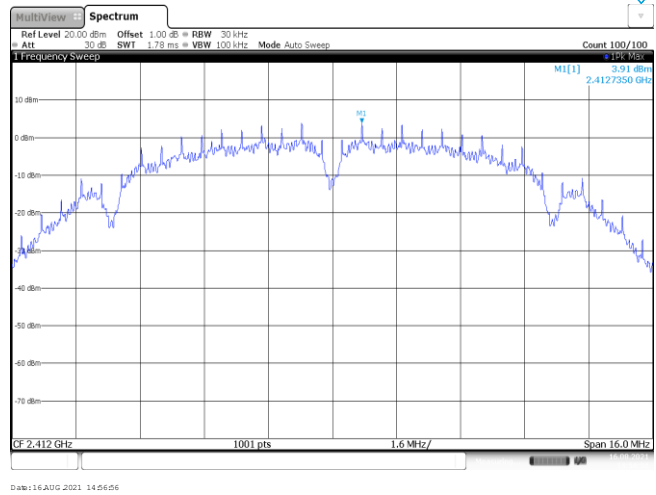
| Type           | Channel | Peak Output power (dBm) | Average Output power (dBm) | Limit (dBm) | Result |
|----------------|---------|-------------------------|----------------------------|-------------|--------|
| 802.11b        | 01      | 16.86                   | 14.42                      | ≤ 30.00     | Pass   |
|                | 06      | 16.27                   | 13.84                      |             |        |
|                | 11      | 16.07                   | 13.63                      |             |        |
| 802.11g        | 01      | 15.31                   | 12.52                      | ≤ 30.00     | Pass   |
|                | 06      | 16.41                   | 13.92                      |             |        |
|                | 11      | 16.26                   | 13.62                      |             |        |
| 802.11n (HT20) | 01      | 14.98                   | 13.46                      | ≤ 30.00     | Pass   |
|                | 06      | 15.96                   | 14.37                      |             |        |
|                | 11      | 15.79                   | 14.26                      |             |        |

**Appendix B: Power Spectral Density**

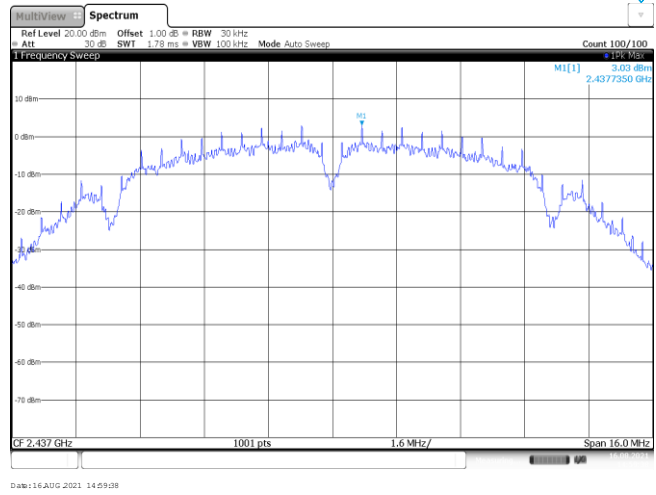
| Type          | Channel | Power Spectral Density (dBm/30KHz) | Limit (dBm/3KHz) | Result |
|---------------|---------|------------------------------------|------------------|--------|
| 802.11b       | 01      | 3.91                               | ≤8.00            | Pass   |
|               | 06      | 3.03                               |                  |        |
|               | 11      | 2.79                               |                  |        |
| 802.11g       | 01      | -9.47                              | ≤8.00            | Pass   |
|               | 06      | -8.35                              |                  |        |
|               | 11      | -7.79                              |                  |        |
| 802.11n(HT20) | 01      | -9.70                              | ≤8.00            | Pass   |
|               | 06      | -9.01                              |                  |        |
|               | 11      | -8.95                              |                  |        |

Type: 802.11 b

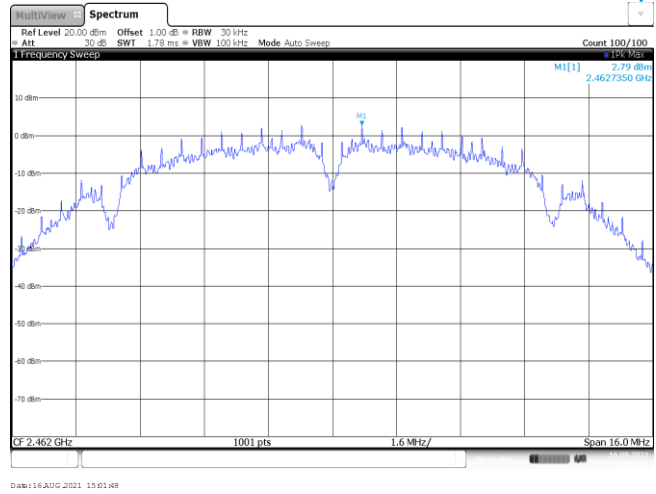
CH01



CH06

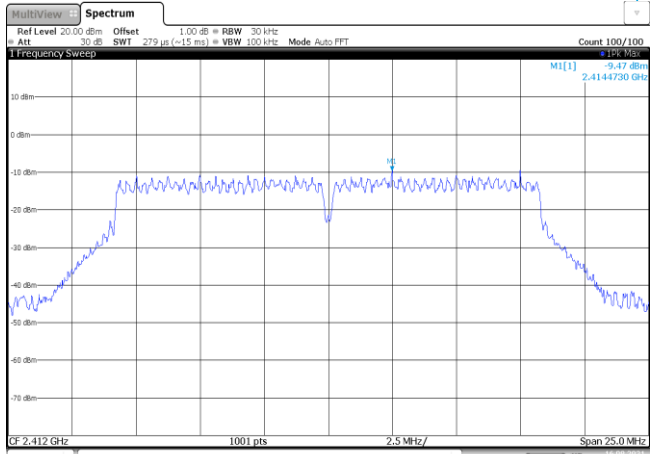


CH11



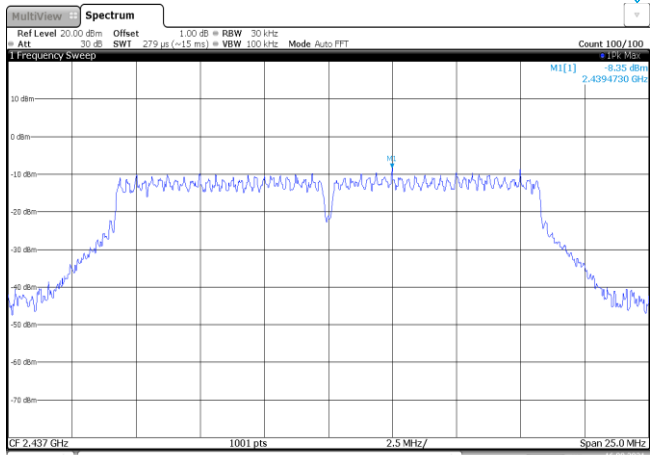
Type: 802.11 g

CH01



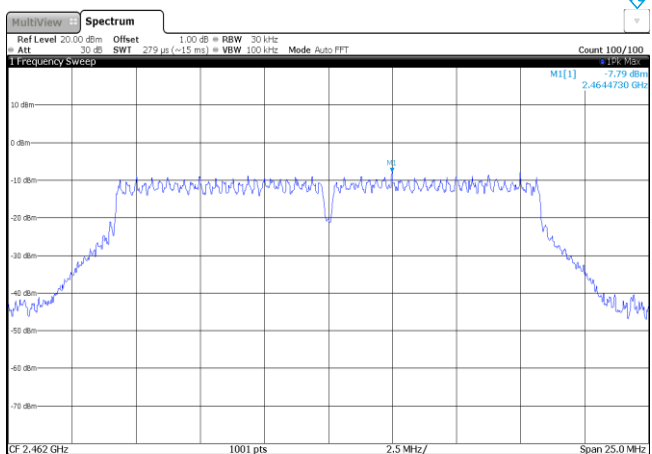
Date: 16/10/2021 15:09:24

CH06

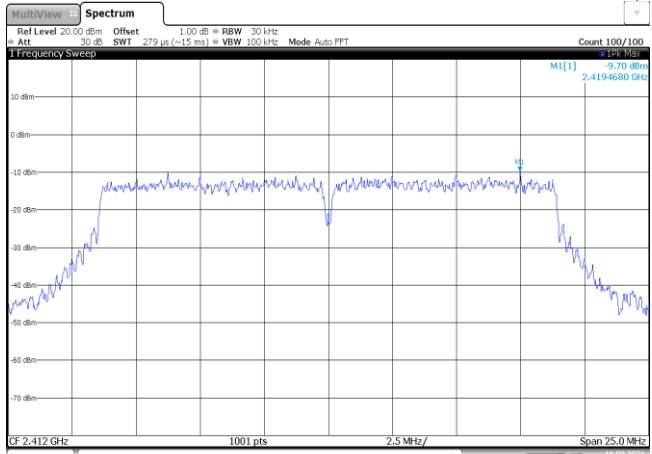
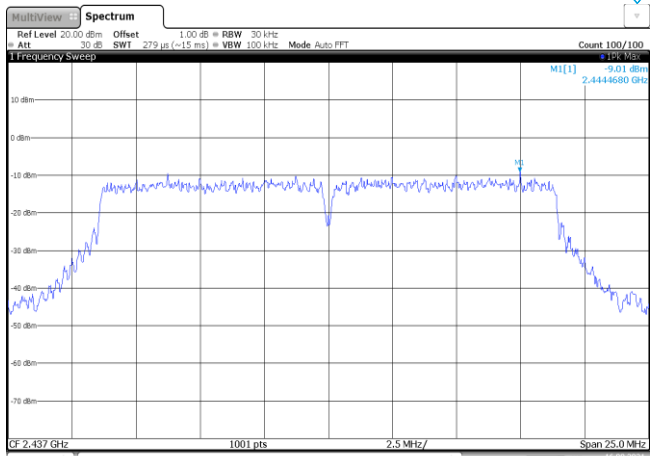
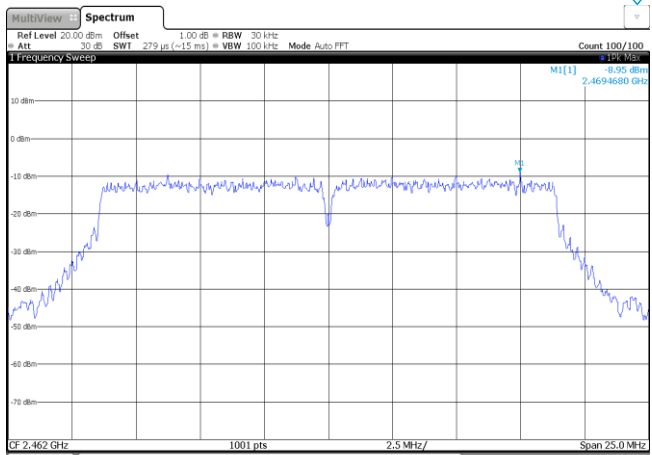


Date: 16/10/2021 15:04:00

CH11

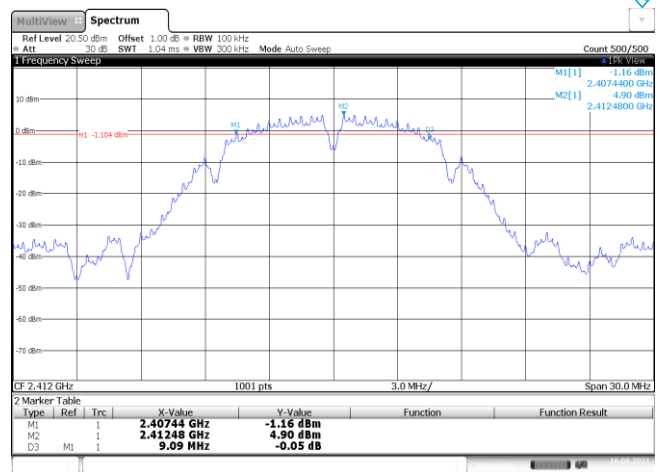
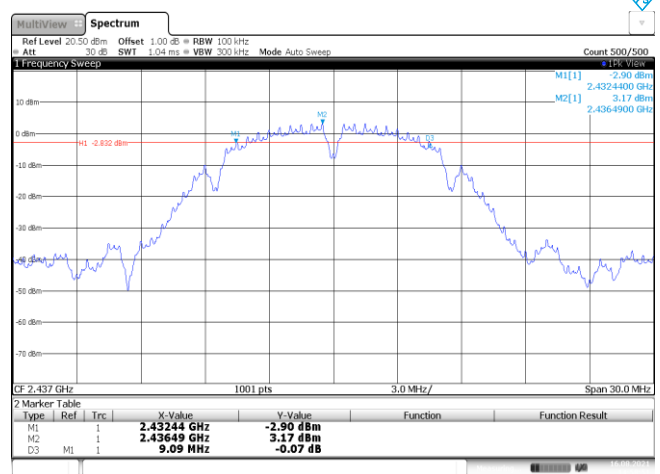
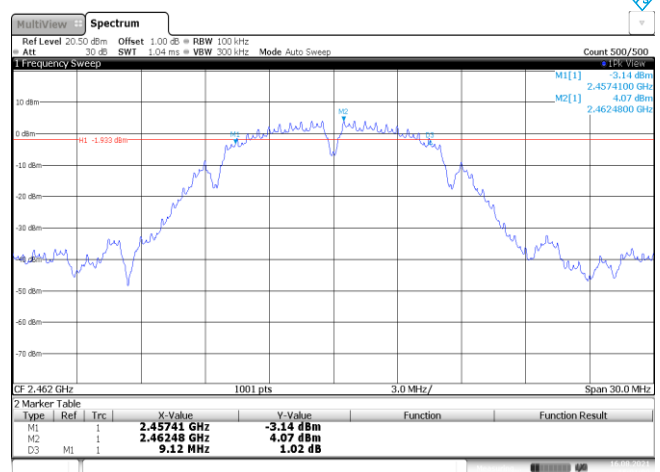


Date: 16/10/2021 15:06:04

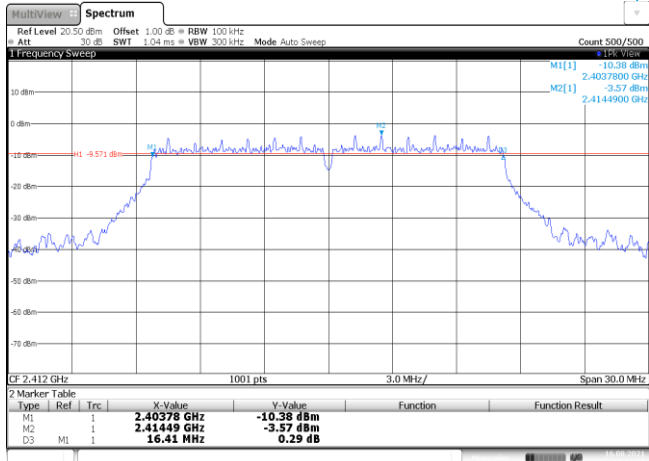
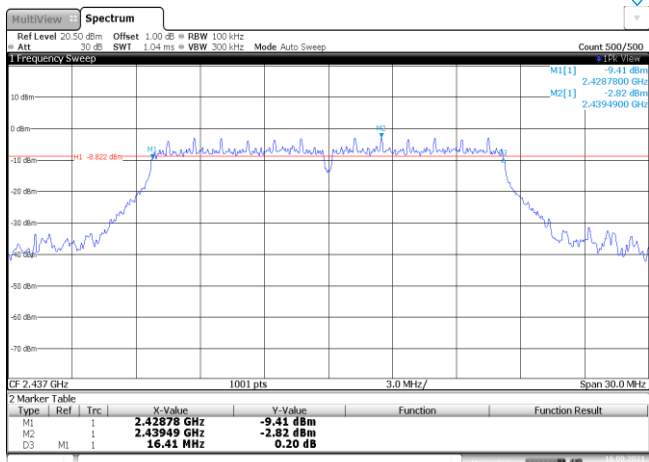
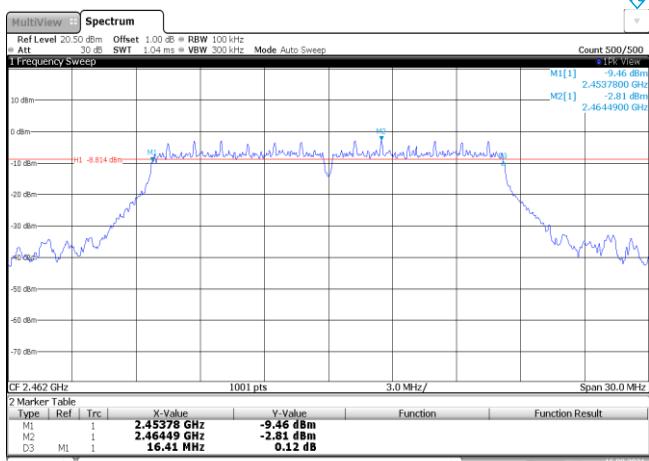
| Type: | 802.11n(HT20)   |
|-------|---|
| CH01  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100<br/>MI[1] -9.70 dBm 2.4194680 GHz<br/>CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16.10.2021 15:42:02</p>   |
| CH06  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100<br/>MI[1] -9.61 dBm 2.4444680 GHz<br/>CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16.10.2021 15:46:42</p>  |
| CH11  |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz<br/>Att 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Count 100/100<br/>MI[1] -9.50 dBm 2.4694680 GHz<br/>CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz<br/>Date: 16.10.2021 15:50:06</p> |

**Appendix C: 6dB bandwidth**

| Type          | Channel | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|---------------|---------|---------------------|-------------|--------|
| 802.11b       | 01      | 9.09                | ≥0.5        | Pass   |
|               | 06      | 9.09                |             |        |
|               | 11      | 9.12                |             |        |
| 802.11g       | 01      | 16.41               | ≥0.5        | Pass   |
|               | 06      | 16.41               |             |        |
|               | 11      | 16.41               |             |        |
| 802.11n(HT20) | 01      | 17.64               | ≥0.5        | Pass   |
|               | 06      | 17.67               |             |        |
|               | 11      | 17.67               |             |        |

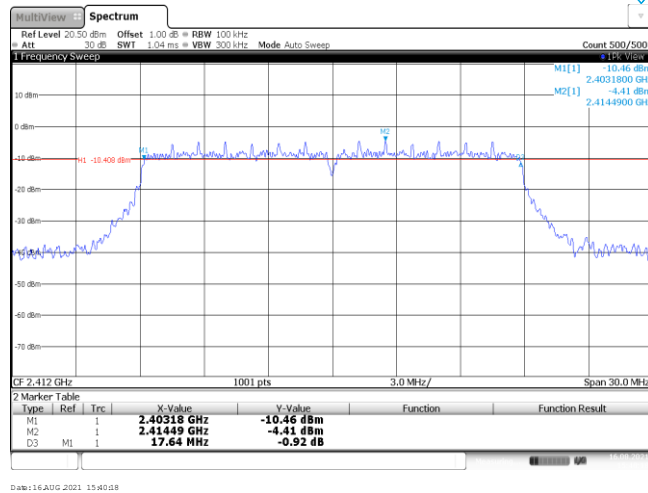
| Type: | 802.11 b  |      |             |           |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
|-------|---|------|-------------|-----------|----------|-----------------|----------|-----------------|----|---|--|-------------|-----------|--|--|----|---|--|-------------|----------|--|--|----|----|---|----------|----------|--|--|
| CH01  |  <p><b>2 Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40744 GHz</td> <td>-1.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41248 GHz</td> <td>4.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.09 MHz</td> <td>-0.05 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 AUG 2021 14:55:27</p>  | Type | Ref         | Trc       | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.40744 GHz | -1.16 dBm |  |  | M2 | 1 |  | 2.41248 GHz | 4.90 dBm |  |  | D3 | M1 | 1 | 9.09 MHz | -0.05 dB |  |  |
| Type  | Ref   | Trc  | X-Value     | Y-Value   | Function | Function Result |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M1    | 1   |      | 2.40744 GHz | -1.16 dBm |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M2    | 1   |      | 2.41248 GHz | 4.90 dBm  |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| D3    | M1  | 1    | 9.09 MHz    | -0.05 dB  |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| CH06  |  <p><b>2 Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.43244 GHz</td> <td>-2.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.43649 GHz</td> <td>3.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.09 MHz</td> <td>-0.07 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 AUG 2021 14:58:50</p> | Type | Ref         | Trc       | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.43244 GHz | -2.90 dBm |  |  | M2 | 1 |  | 2.43649 GHz | 3.17 dBm |  |  | D3 | M1 | 1 | 9.09 MHz | -0.07 dB |  |  |
| Type  | Ref   | Trc  | X-Value     | Y-Value   | Function | Function Result |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M1    | 1   |      | 2.43244 GHz | -2.90 dBm |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M2    | 1   |      | 2.43649 GHz | 3.17 dBm  |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| D3    | M1  | 1    | 9.09 MHz    | -0.07 dB  |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| CH11  |  <p><b>2 Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.45741 GHz</td> <td>-3.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.46248 GHz</td> <td>4.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.12 MHz</td> <td>1.02 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 AUG 2021 15:01:00</p> | Type | Ref         | Trc       | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.45741 GHz | -3.14 dBm |  |  | M2 | 1 |  | 2.46248 GHz | 4.07 dBm |  |  | D3 | M1 | 1 | 9.12 MHz | 1.02 dB  |  |  |
| Type  | Ref   | Trc  | X-Value     | Y-Value   | Function | Function Result |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M1    | 1   |      | 2.45741 GHz | -3.14 dBm |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| M2    | 1   |      | 2.46248 GHz | 4.07 dBm  |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |
| D3    | M1  | 1    | 9.12 MHz    | 1.02 dB   |          |                 |          |                 |    |   |  |             |           |  |  |    |   |  |             |          |  |  |    |    |   |          |          |  |  |



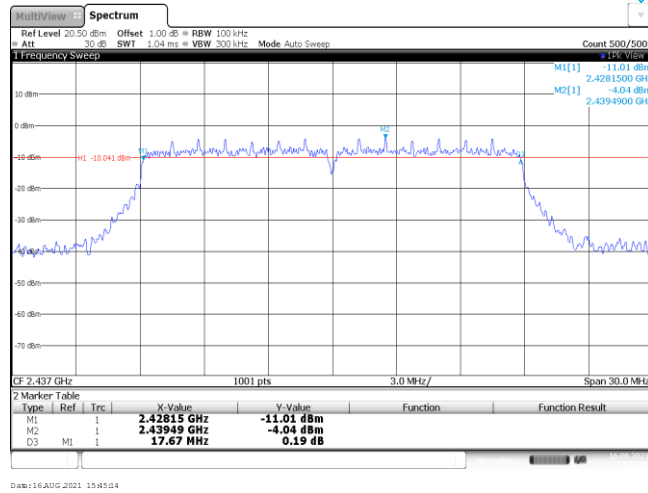
| Type: | 802.11 g   |      |             |            |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
|-------|--|------|-------------|------------|----------|-----------------|----------|-----------------|----|---|--|-------------|------------|--|--|----|---|--|-------------|-----------|--|--|----|----|---|-----------|---------|--|--|
| CH01  |  <p>Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 500/500</p> <p>1 Frequency Sweep</p> <p>M1(1) -10.38 dBm<br/>2.4037800 GHz<br/>M2(1) -3.57 dBm<br/>2.4144900 GHz</p> <p>H1 -9.571 dBm</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40378 GHz</td> <td>-10.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41449 GHz</td> <td>-3.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>0.29 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/10/2021 15:44:24</p> | Type | Ref         | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.40378 GHz | -10.38 dBm |  |  | M2 | 1 |  | 2.41449 GHz | -3.57 dBm |  |  | D3 | M1 | 1 | 16.41 MHz | 0.29 dB |  |  |
| Type  | Ref  | Trc  | X-Value     | Y-Value    | Function | Function Result |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M1    | 1  |      | 2.40378 GHz | -10.38 dBm |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M2    | 1  |      | 2.41449 GHz | -3.57 dBm  |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| D3    | M1   | 1    | 16.41 MHz   | 0.29 dB    |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| CH06  |  <p>Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 500/500</p> <p>1 Frequency Sweep</p> <p>M1(1) -9.41 dBm<br/>2.4287800 GHz<br/>M2(1) -2.82 dBm<br/>2.4394900 GHz</p> <p>H1 -8.822 dBm</p> <p>CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.42878 GHz</td> <td>-9.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.43949 GHz</td> <td>-2.82 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>0.20 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/10/2021 15:01:27</p>  | Type | Ref         | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.42878 GHz | -9.41 dBm  |  |  | M2 | 1 |  | 2.43949 GHz | -2.82 dBm |  |  | D3 | M1 | 1 | 16.41 MHz | 0.20 dB |  |  |
| Type  | Ref  | Trc  | X-Value     | Y-Value    | Function | Function Result |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M1    | 1  |      | 2.42878 GHz | -9.41 dBm  |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M2    | 1  |      | 2.43949 GHz | -2.82 dBm  |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| D3    | M1   | 1    | 16.41 MHz   | 0.20 dB    |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| CH11  |  <p>Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 500/500</p> <p>1 Frequency Sweep</p> <p>M1(1) -9.46 dBm<br/>2.4537800 GHz<br/>M2(1) -2.81 dBm<br/>2.4644900 GHz</p> <p>H1 -8.814 dBm</p> <p>CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.45378 GHz</td> <td>-9.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.46449 GHz</td> <td>-2.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>0.12 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16/10/2021 15:03:28</p> | Type | Ref         | Trc        | X-Value  | Y-Value         | Function | Function Result | M1 | 1 |  | 2.45378 GHz | -9.46 dBm  |  |  | M2 | 1 |  | 2.46449 GHz | -2.81 dBm |  |  | D3 | M1 | 1 | 16.41 MHz | 0.12 dB |  |  |
| Type  | Ref  | Trc  | X-Value     | Y-Value    | Function | Function Result |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M1    | 1  |      | 2.45378 GHz | -9.46 dBm  |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| M2    | 1  |      | 2.46449 GHz | -2.81 dBm  |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |
| D3    | M1   | 1    | 16.41 MHz   | 0.12 dB    |          |                 |          |                 |    |   |  |             |            |  |  |    |   |  |             |           |  |  |    |    |   |           |         |  |  |

**Type:** **802.11n(HT20)**

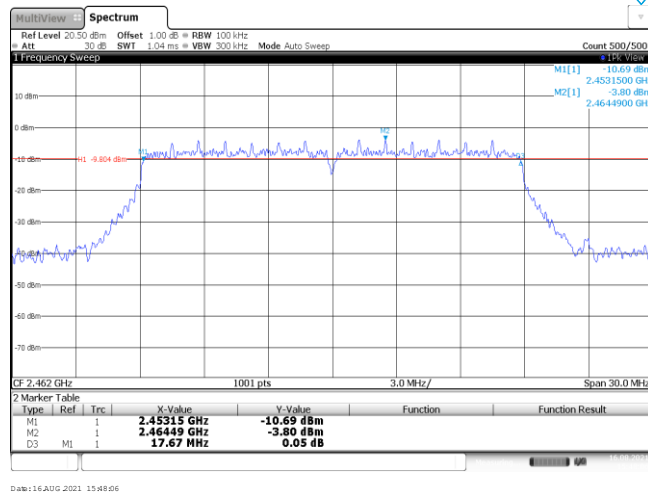
CH01



CH06



CH11

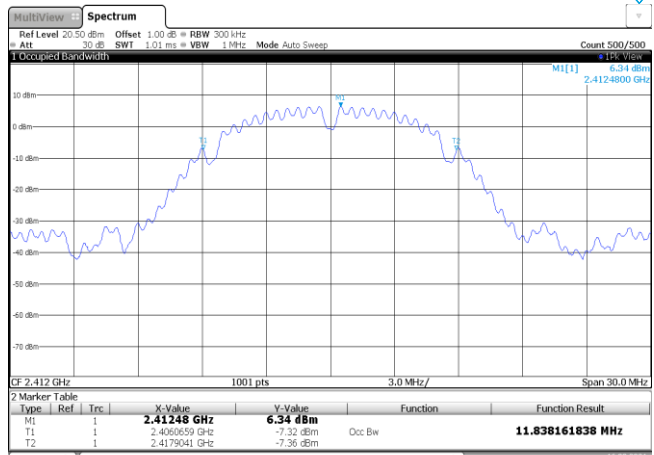


**Appendix D: 99% Occupied Bandwidth**

| Type          | Channel | 99% Bandwidth (MHz) | Limit (MHz) | Result |
|---------------|---------|---------------------|-------------|--------|
| 802.11b       | 01      | 11.84               | -           | Pass   |
|               | 06      | 11.84               |             |        |
|               | 11      | 11.84               |             |        |
| 802.11g       | 01      | 17.29               | -           | Pass   |
|               | 06      | 17.29               |             |        |
|               | 11      | 17.29               |             |        |
| 802.11n(HT20) | 01      | 17.89               | -           | Pass   |
|               | 06      | 17.89               |             |        |
|               | 11      | 17.86               |             |        |

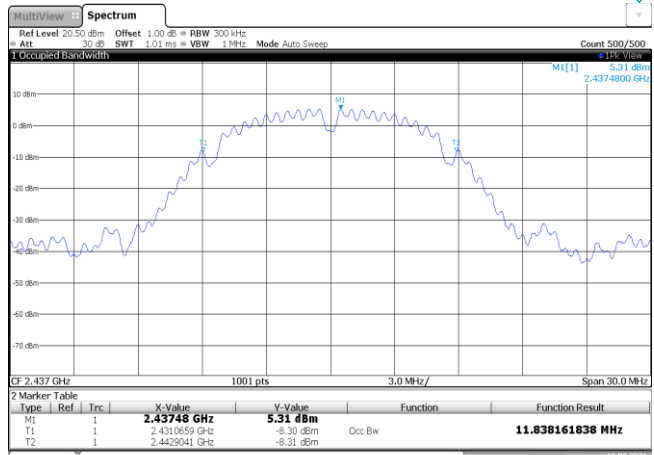
**Type:** **802.11 b**

CH01



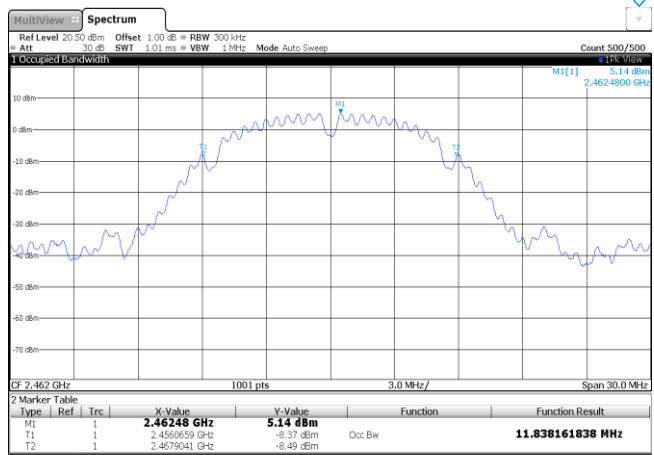
Date: 16/10/2021 14:05:20

CH06



Date: 16/10/2021 14:08:59

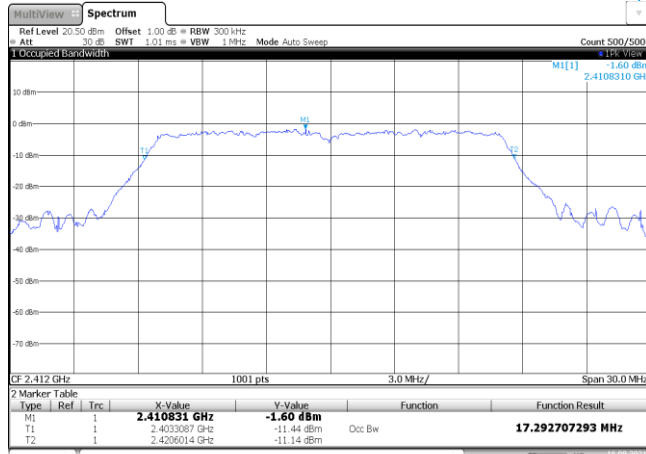
CH11



Date: 16/10/2021 15:01:08

**Type:** **802.11 g**

CH01



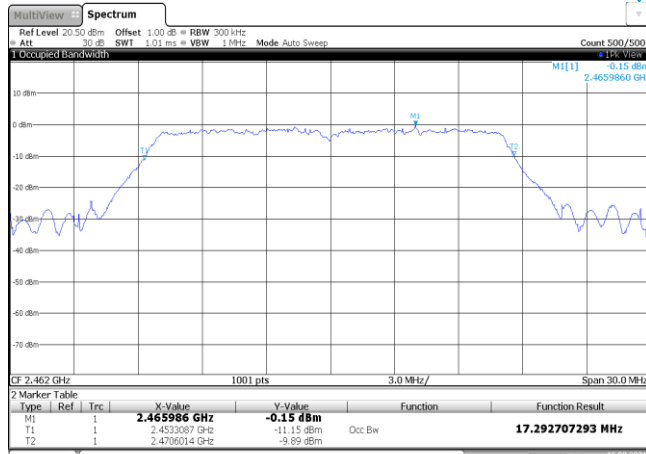
Date: 16/10/2021 15:04:43

CH06



Date: 16/10/2021 15:01:45

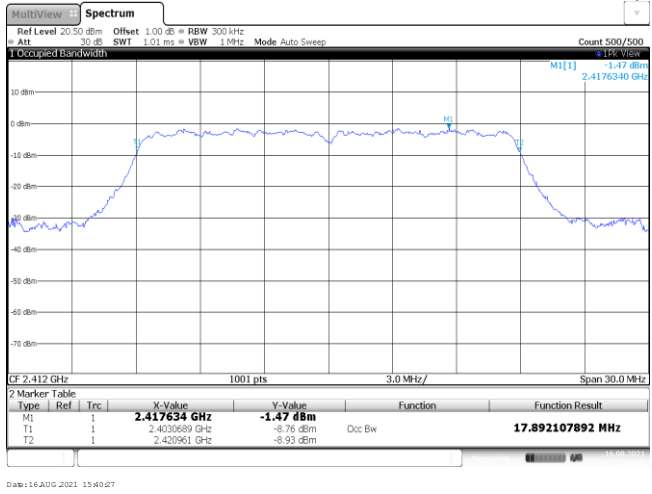
CH11



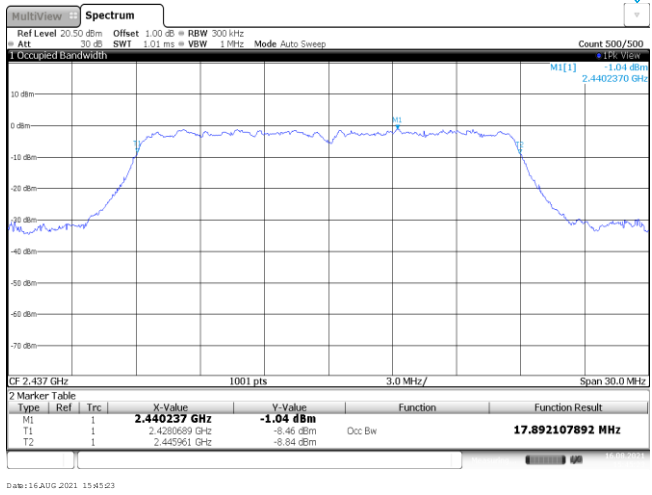
Date: 16/10/2021 15:05:06

**Type:** **802.11n(HT20)**

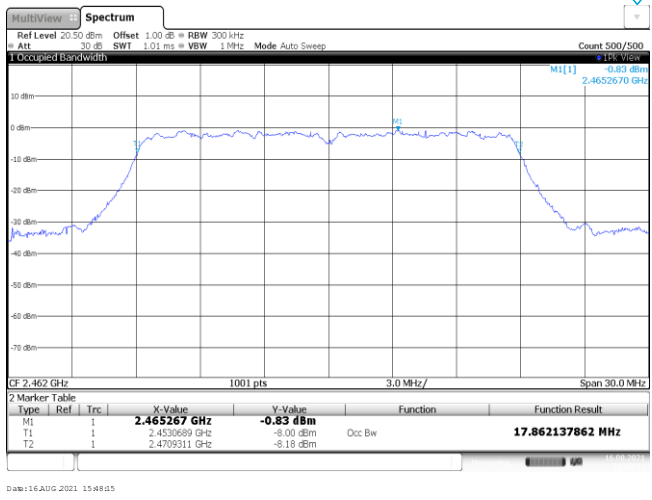
CH01



CH06

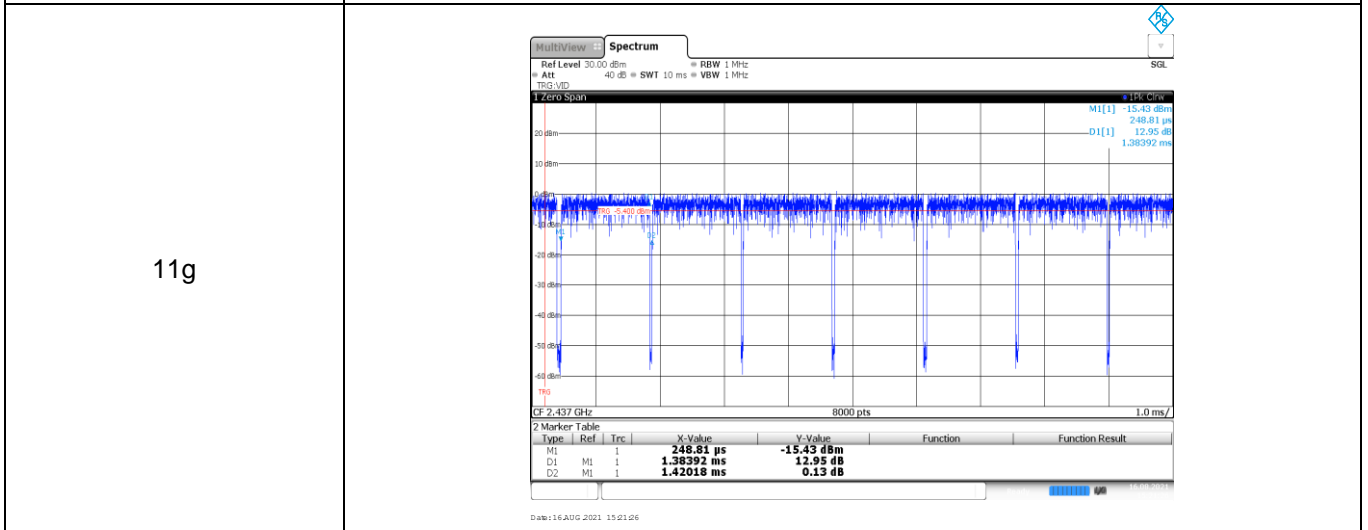
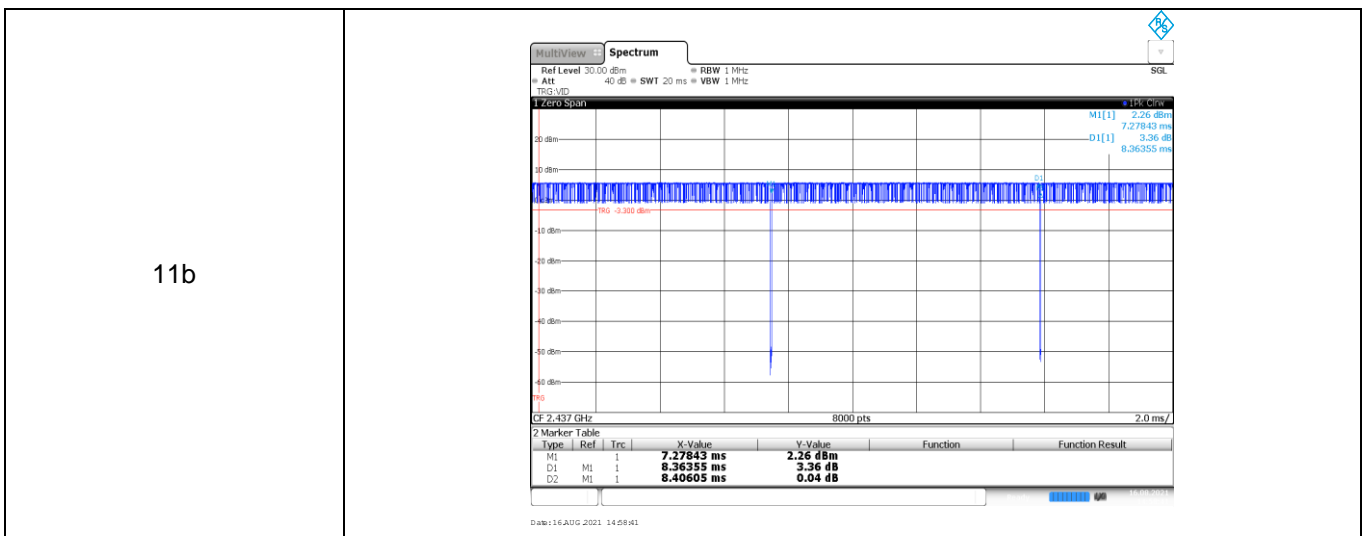


CH11

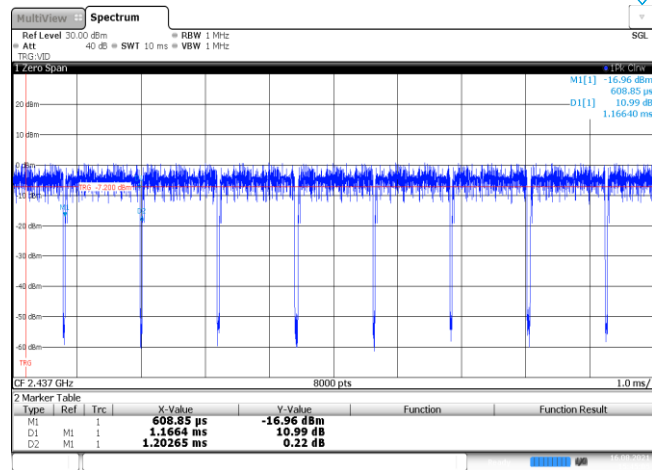


### Appendix E: Duty Cycle

| Modulation Type | Test Frequency (MHz) | T <sub>on time</sub> for single burst (ms) | T <sub>period</sub> (ms) | Duty cycle | 1/T <sub>on time</sub> (kHz) |
|-----------------|----------------------|--|--------------------------|------------|------------------------------|
| 11b             | 2437                 | 8.36                                       | 8.41                     | 99.4%      | 0.1                          |
| 11g             | 2437                 | 1.38                                       | 1.42                     | 97.2%      | 0.7                          |
| 11n20           | 2437                 | 1.17                                       | 1.20                     | 97.5%      | 0.9                          |




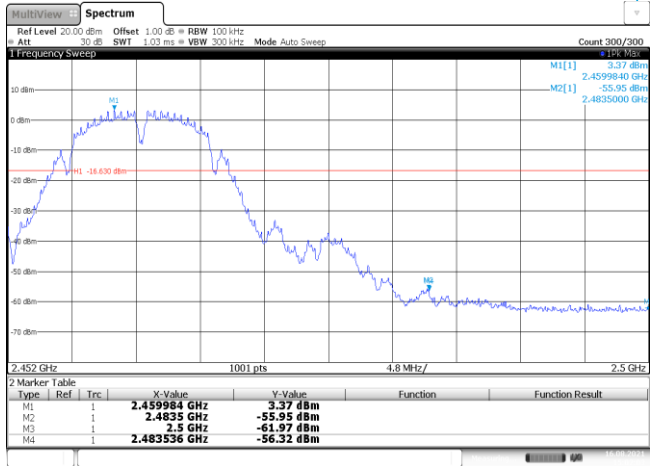
11n20



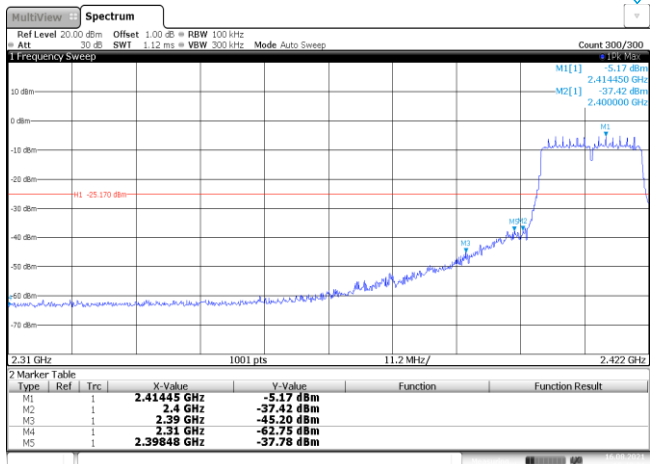
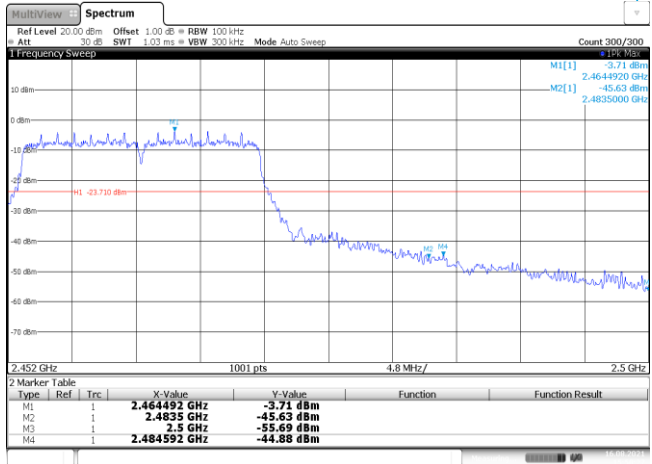
Date: 16 AUG 2021 15:45:04

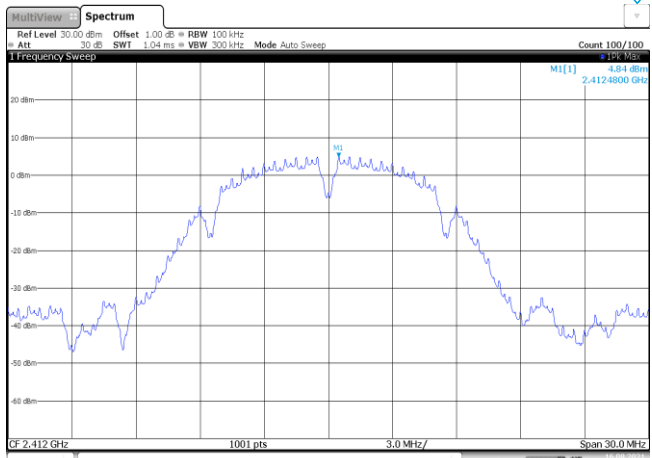
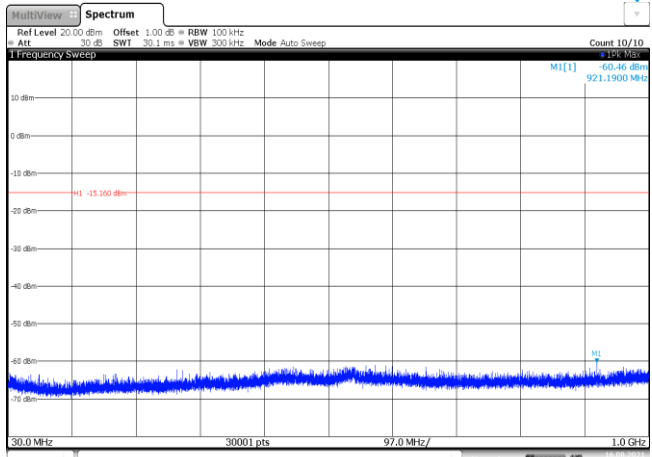
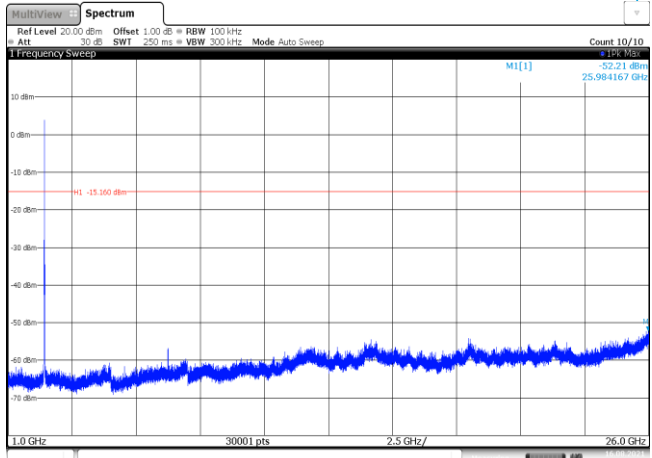


### Appendix F: Band edge and Spurious Emissions (conducted)

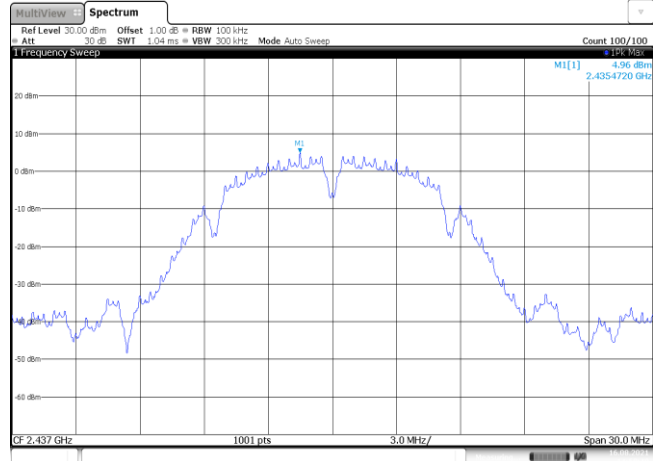
| Test Item: | Bandedge   | Type: | 802.11 b     |            |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|------------|--|-------|--------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH01       |  <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41243 GHz</td> <td>4.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-45.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398928 GHz</td> <td>-34.71 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16.AUG 2021 14:57:08</p> |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.41243 GHz  | 4.62 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -45.96 dBm |  |  | M3 | 1 |  | 2.39 GHz | -54.35 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -63.61 dBm |  |  | M5 | 1 |  | 2.398928 GHz | -34.71 dBm |  |  |
| Type       | Ref  | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1  |       | 2.41243 GHz  | 4.62 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1  |       | 2.4 GHz      | -45.96 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1  |       | 2.39 GHz     | -54.35 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1  |       | 2.31 GHz     | -63.61 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1  |       | 2.398928 GHz | -34.71 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH11       |  <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.459984 GHz</td> <td>3.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-55.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-61.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483536 GHz</td> <td>-56.32 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16.AUG 2021 15:02:02</p>   |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.459984 GHz | 3.37 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -55.95 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -61.97 dBm |  |  | M4 | 1 |  | 2.483536 GHz | -56.32 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref  | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1  |       | 2.459984 GHz | 3.37 dBm   |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1  |       | 2.4835 GHz   | -55.95 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1  |       | 2.5 GHz      | -61.97 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1  |       | 2.483536 GHz | -56.32 dBm |          |                 |         |         |          |                 |    |   |  |              |          |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

| Test Item: | Bandedge  | Type: | 802.11 g     |            |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
|------------|---|-------|--------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|-----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|--------------|------------|--|--|
| CH01       | <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41445 GHz</td> <td>-3.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-35.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-47.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398928 GHz</td> <td>-35.15 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 AUG 2021 15:09:53</p> |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.41445 GHz  | -3.91 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -35.84 dBm |  |  | M3 | 1 |  | 2.39 GHz | -47.22 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -63.89 dBm |  |  | M5 | 1 |  | 2.398928 GHz | -35.15 dBm |  |  |
| Type       | Ref   | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1   |       | 2.41445 GHz  | -3.91 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1   |       | 2.4 GHz      | -35.84 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1   |       | 2.39 GHz     | -47.22 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1   |       | 2.31 GHz     | -63.89 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M5         | 1   |       | 2.398928 GHz | -35.15 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| CH11       | <p>2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.464492 GHz</td> <td>-2.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-46.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-56.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483632 GHz</td> <td>-42.65 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 AUG 2021 15:07:28</p>  |       |              | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.464492 GHz | -2.73 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -46.33 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -56.26 dBm |  |  | M4 | 1 |  | 2.483632 GHz | -42.65 dBm |  |  |    |   |  |              |            |  |  |
| Type       | Ref   | Trc   | X-Value      | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M1         | 1   |       | 2.464492 GHz | -2.73 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M2         | 1   |       | 2.4835 GHz   | -46.33 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M3         | 1   |       | 2.5 GHz      | -56.26 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |
| M4         | 1   |       | 2.483632 GHz | -42.65 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |              |            |  |  |

| Test Item: | Bandedge  | Type: | 802.11 n(HT20) |            |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
|------------|---|-------|----------------|------------|----------|-----------------|---------|---------|----------|-----------------|----|---|--|--------------|-----------|--|--|----|---|--|------------|------------|--|--|----|---|--|----------|------------|--|--|----|---|--|--------------|------------|--|--|----|---|--|-------------|------------|--|--|
| CH01       |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 300/300</p> <p>1 Frequency Sweep</p> <p>M1[1] -5.17 dBm<br/>2.414450 GHz<br/>M2[1] -37.42 dBm<br/>2.400000 GHz</p> <p>M1 -5.17 dBm<br/>M2 -37.42 dBm<br/>M3 -45.20 dBm<br/>M4 -62.75 dBm<br/>M5 -37.78 dBm</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41445 GHz</td> <td>-5.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-37.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-45.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39848 GHz</td> <td>-37.78 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</p> <p>2 Marker Table</p> <p>Date: 16/10/2021 15:43:24</p> |       |                | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.41445 GHz  | -5.17 dBm |  |  | M2 | 1 |  | 2.4 GHz    | -37.42 dBm |  |  | M3 | 1 |  | 2.39 GHz | -45.20 dBm |  |  | M4 | 1 |  | 2.31 GHz     | -62.75 dBm |  |  | M5 | 1 |  | 2.39848 GHz | -37.78 dBm |  |  |
| Type       | Ref   | Trc   | X-Value        | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M1         | 1   |       | 2.41445 GHz    | -5.17 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M2         | 1   |       | 2.4 GHz        | -37.42 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M3         | 1   |       | 2.39 GHz       | -45.20 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M4         | 1   |       | 2.31 GHz       | -62.75 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M5         | 1   |       | 2.39848 GHz    | -37.78 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| CH11       |  <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz<br/>Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 300/300</p> <p>1 Frequency Sweep</p> <p>M1[1] -3.71 dBm<br/>2.464492 GHz<br/>M2[1] -45.63 dBm<br/>2.4835000 GHz</p> <p>M1 -3.71 dBm<br/>M2 -45.63 dBm<br/>M3 -55.69 dBm<br/>M4 -44.88 dBm</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.464492 GHz</td> <td>-3.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-45.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-55.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484592 GHz</td> <td>-44.88 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz</p> <p>2 Marker Table</p> <p>Date: 16/10/2021 15:50:28</p>   |       |                | Type       | Ref      | Trc             | X-Value | Y-Value | Function | Function Result | M1 | 1 |  | 2.464492 GHz | -3.71 dBm |  |  | M2 | 1 |  | 2.4835 GHz | -45.63 dBm |  |  | M3 | 1 |  | 2.5 GHz  | -55.69 dBm |  |  | M4 | 1 |  | 2.484592 GHz | -44.88 dBm |  |  |    |   |  |             |            |  |  |
| Type       | Ref   | Trc   | X-Value        | Y-Value    | Function | Function Result |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M1         | 1   |       | 2.464492 GHz   | -3.71 dBm  |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M2         | 1   |       | 2.4835 GHz     | -45.63 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M3         | 1   |       | 2.5 GHz        | -55.69 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |
| M4         | 1   |       | 2.484592 GHz   | -44.88 dBm |          |                 |         |         |          |                 |    |   |  |              |           |  |  |    |   |  |            |            |  |  |    |   |  |          |            |  |  |    |   |  |              |            |  |  |    |   |  |             |            |  |  |

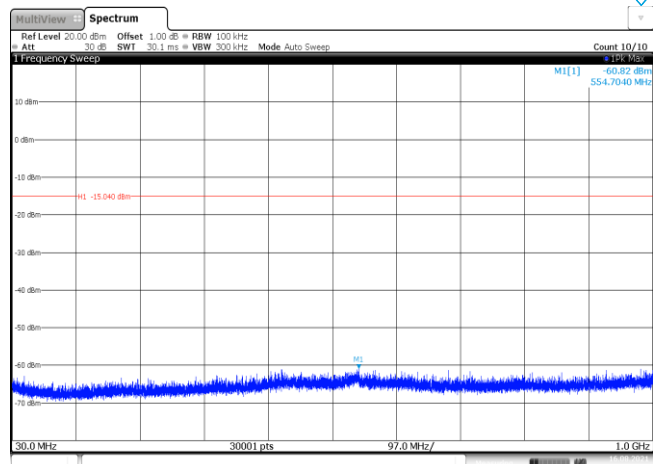
| Test Item:                      | SE | Type: | 802.11 b   |
|---------------------------------|----|-------|--|
| <p>CH01<br/>Reference level</p> |    |       |  <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 16.AUG.2021 14:07:23</p> |
| <p>CH01<br/>30MHz~1000MHz</p>   |    |       |  <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 16.AUG.2021 14:07:29</p>        |
| <p>CH01<br/>1GHz~26GHz</p>      |    |       |  <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 16.AUG.2021 14:07:05</p>        |

CH06  
Reference level



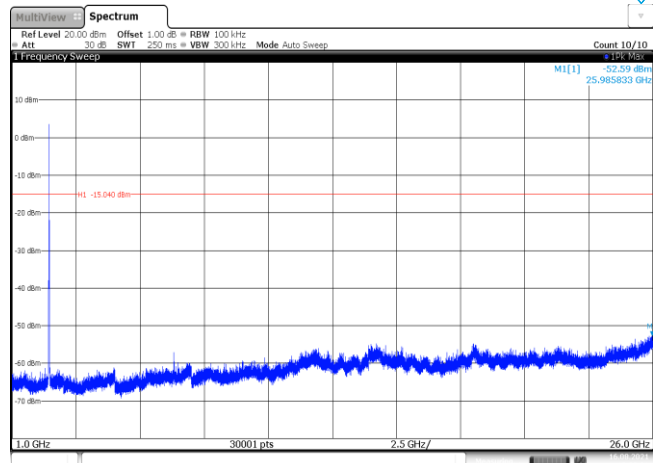
Date: 16 AUG 2021 14:59:48

CH06  
30MHz~1000MHz



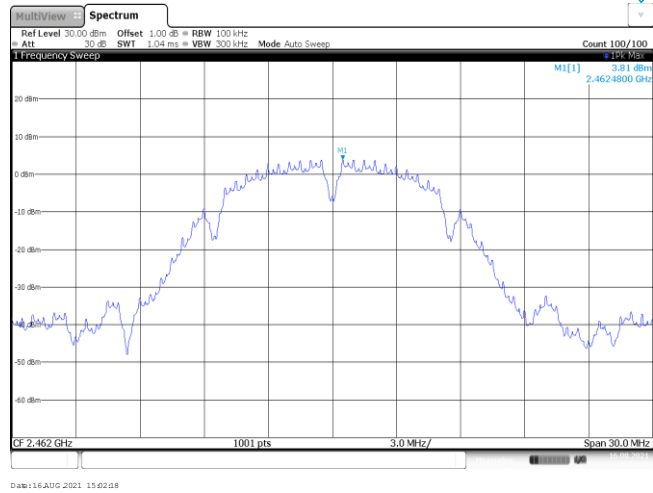
Date: 16 AUG 2021 15:00:05

CH06  
1GHz~26GHz

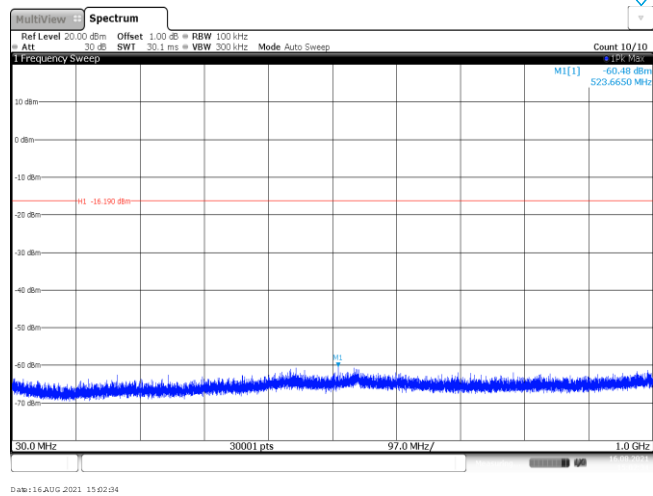


Date: 16 AUG 2021 15:00:21

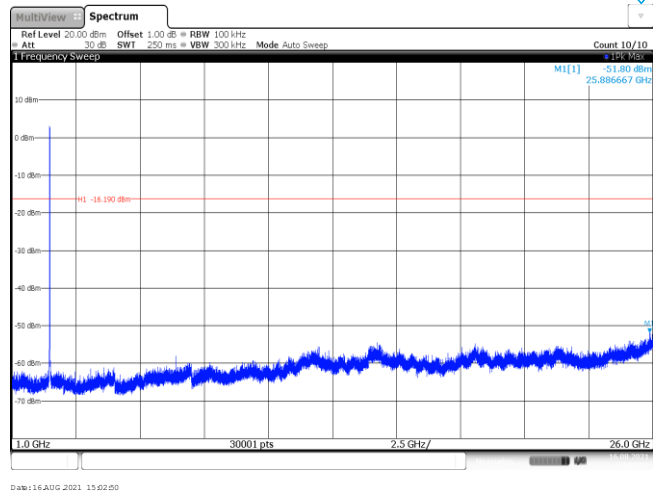
CH11  
Reference level

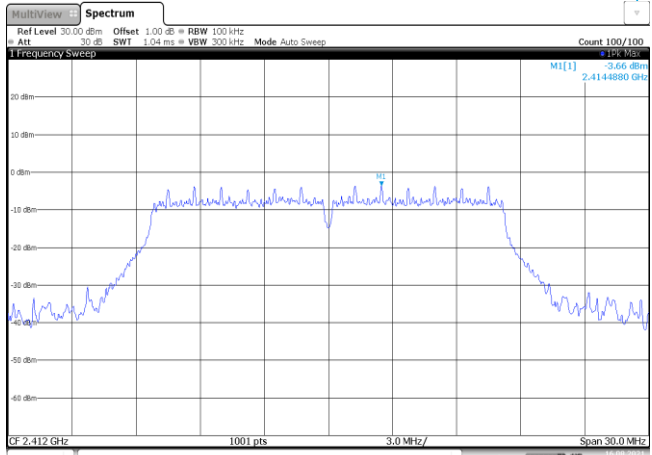
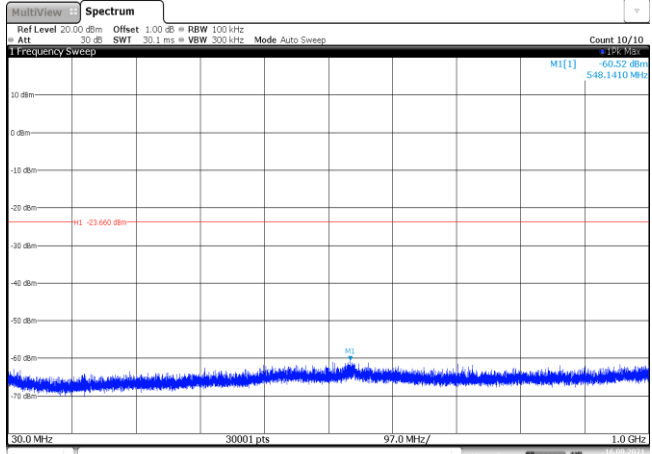
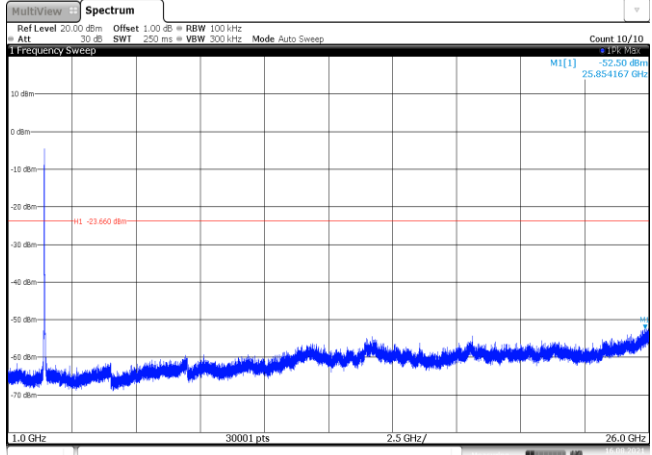


CH11  
30MHz~1000MHz

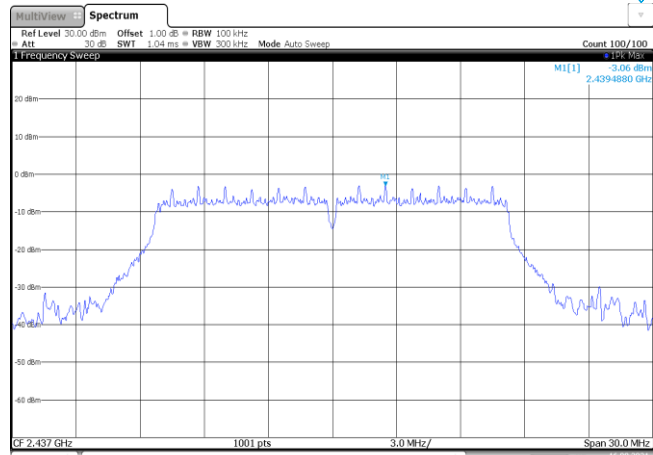


CH11  
1GHz~26GHz

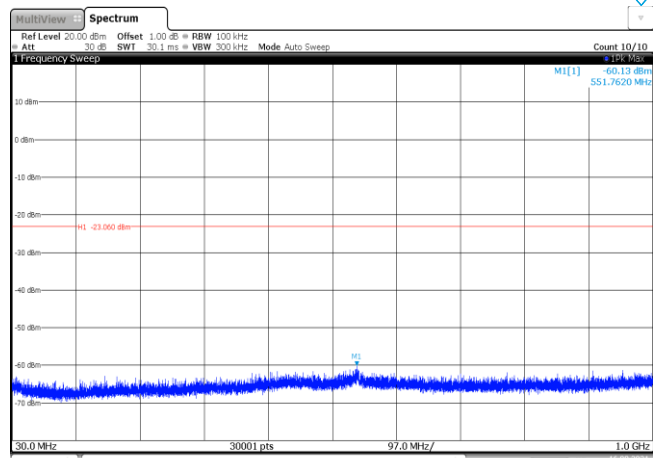


| Test Item:                      | SE | Type:  | 802.11 g |
|---------------------------------|----|--|----------|
| <p>CH01<br/>Reference level</p> |    |    |          |
| <p>CH01<br/>30MHz~1000MHz</p>   |    |   |          |
| <p>CH01<br/>1GHz~26GHz</p>      |    |  |          |

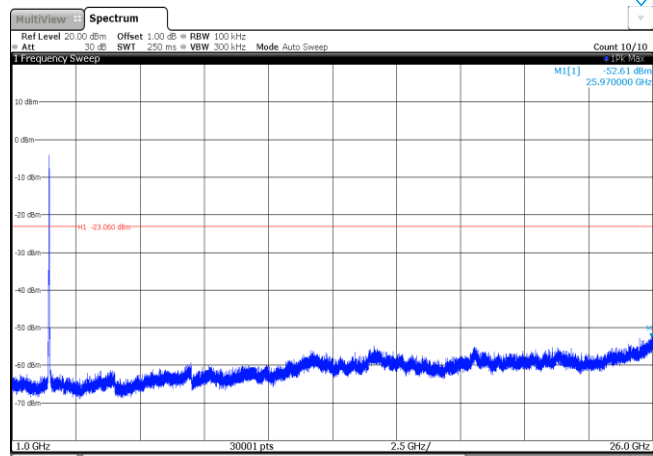
CH06  
Reference level



CH06  
30MHz~1000MHz

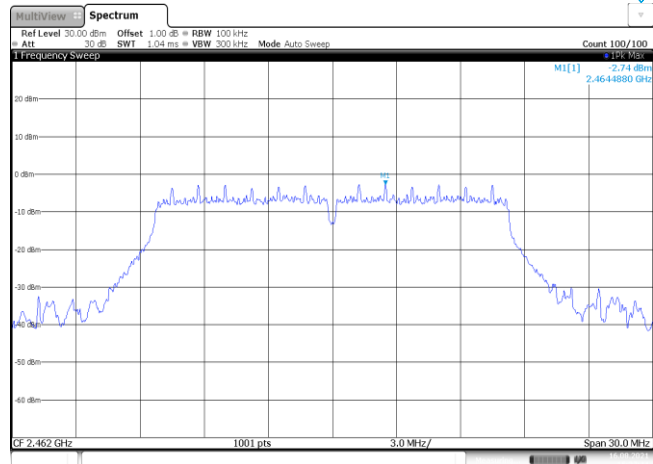


CH06  
1GHz~26GHz



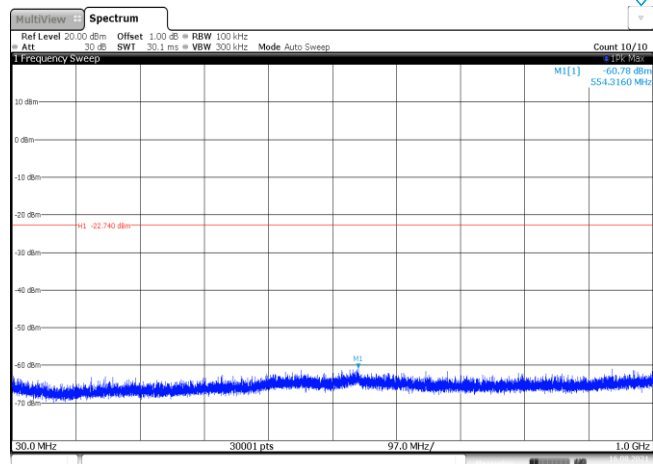


CH11  
Reference level



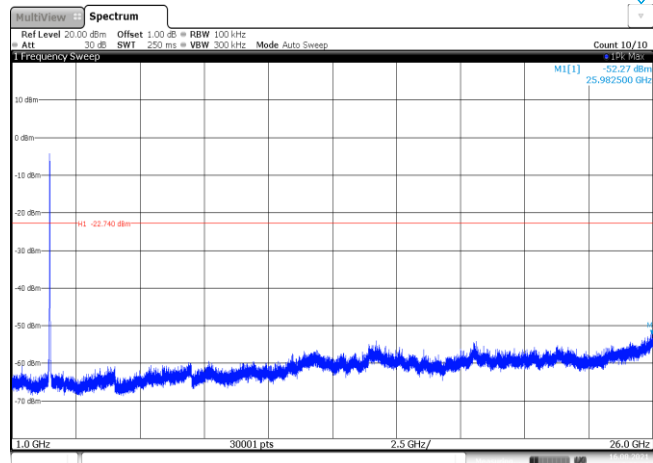
Date: 16 AUG 2021 15:27:43

CH11  
30MHz~1000MHz

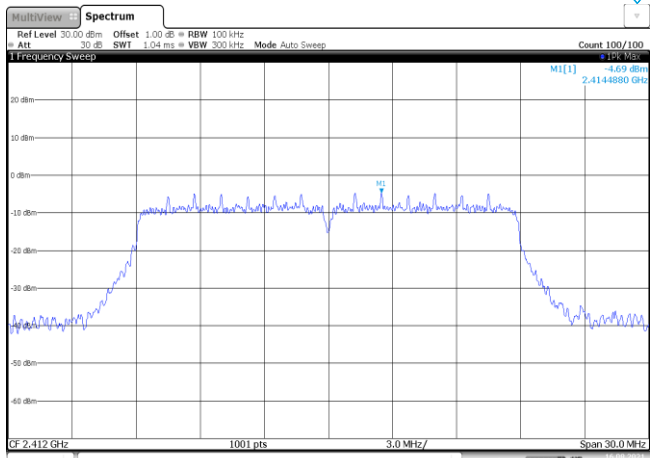
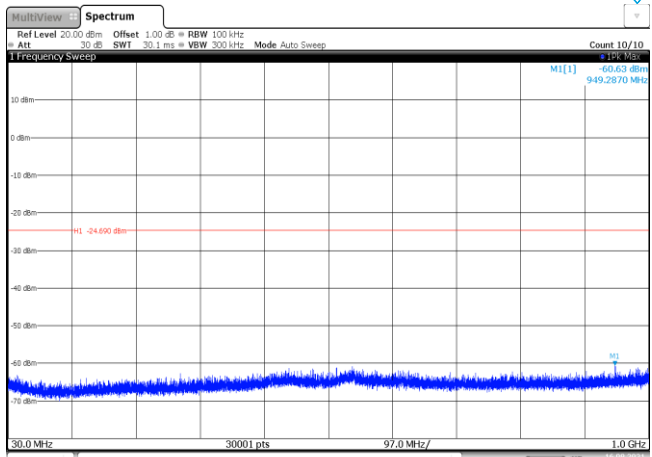
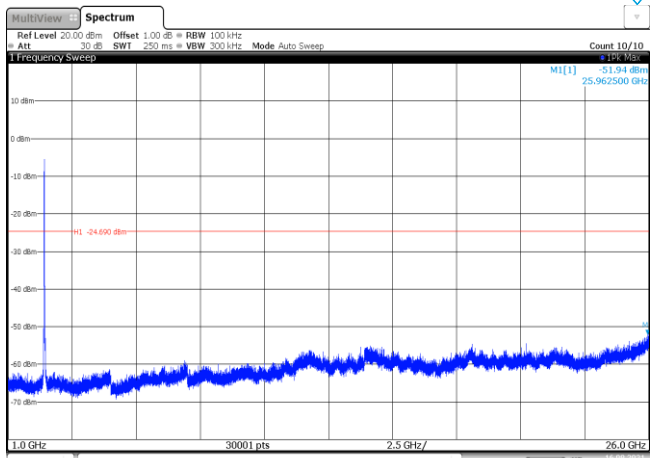


Date: 16 AUG 2021 15:27:59

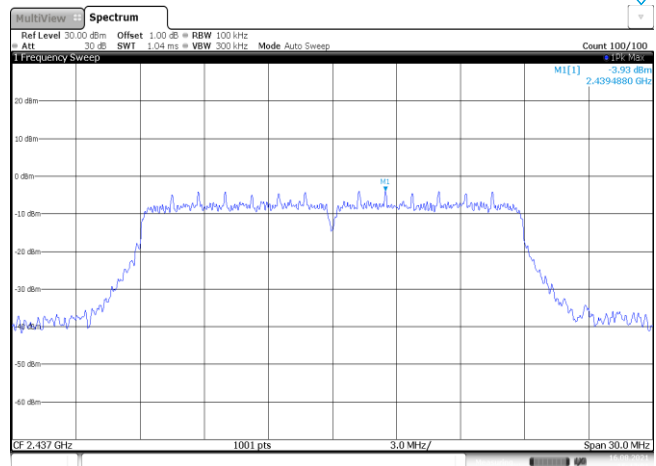
CH11  
1GHz~26GHz



Date: 16 AUG 2021 15:28:26

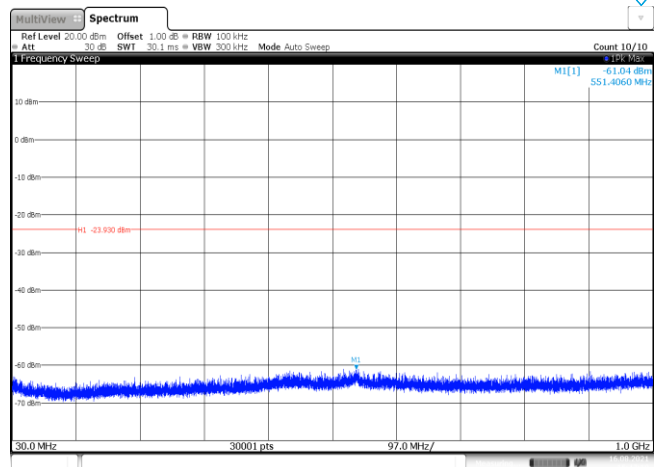
| Test Item:                      | SE | Type: | 802.11 n(HT20)   |
|---------------------------------|----|-------|--|
| <p>CH01<br/>Reference level</p> |    |       |  <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep<br/>Count 100/100<br/>M1[1] -14.00 dBm<br/>2.414880 GHz<br/>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz<br/>Date: 16 AUG 2021 15:44:56</p>                 |
| <p>CH01<br/>30MHz~1000MHz</p>   |    |       |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -69.63 dBm<br/>949.2870 MHz<br/>H1 -24.00 dBm<br/>M1<br/>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz<br/>Date: 16 AUG 2021 15:44:22</p> |
| <p>CH01<br/>1GHz~26GHz</p>      |    |       |  <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz<br/>Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep<br/>Count 10/10<br/>M1[1] -51.94 dBm<br/>25.962500 GHz<br/>H1 -24.00 dBm<br/>M1<br/>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz<br/>Date: 16 AUG 2021 15:44:38</p> |

CH06  
Reference level



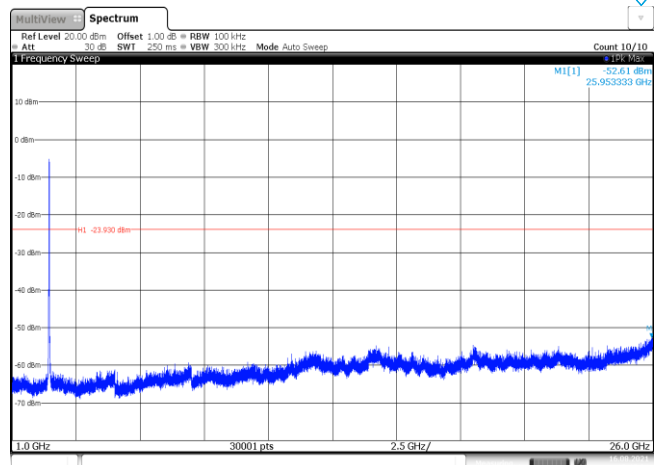
Date:16.AUG.2021 15:47:01

CH06  
30MHz~1000MHz



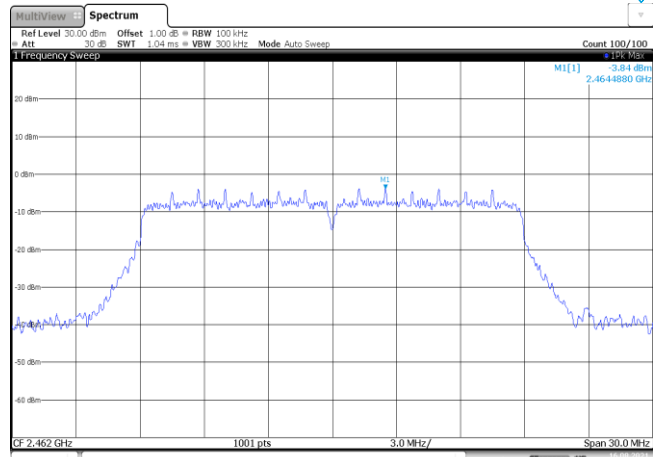
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CH06  
1GHz~26GHz



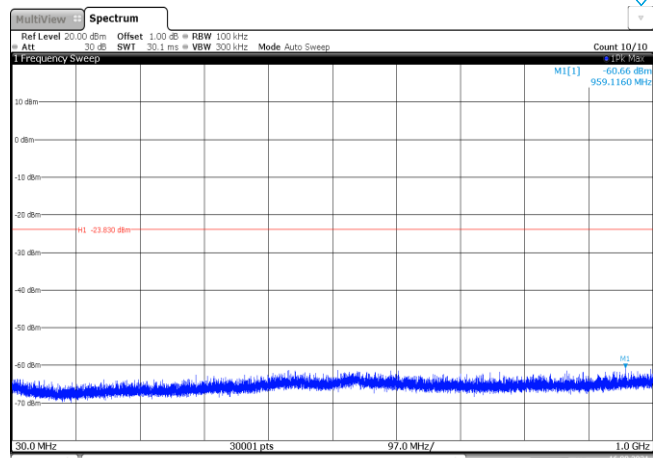
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CH11  
Reference level



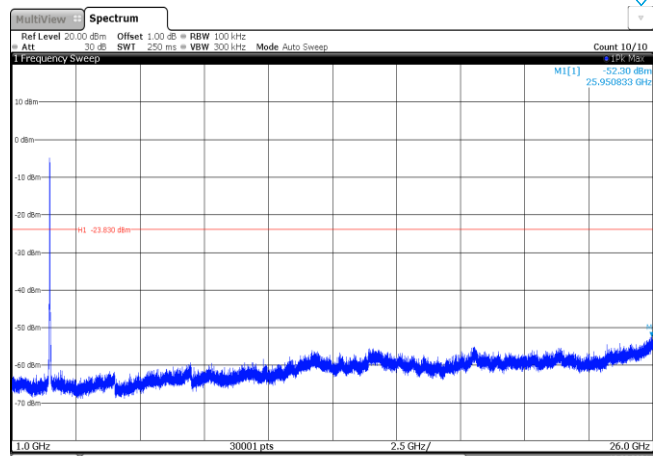
Date: 16 AUG 2021 15:50:46

CH11  
30MHz~1000MHz



Date: 16 AUG 2021 15:51:02

CH11  
1GHz~26GHz



Date: 16 AUG 2021 15:51:19

-----End of Report-----