

# APPENDIX REPORT

|                 |                 |                     |                     |
|-----------------|-----------------|---------------------|---------------------|
| Project No.     | SHT1911060702EW | Radio Specification | WIFI 5G             |
| Test sample No. | YPHT19110607028 | Model No.           | TE300               |
| Start test date | 2020/1/2        | Finish date         | 2020/1/2            |
| Temperature     | 25°C            | Humidity            | 50%                 |
| Test Engineer   | Ximing.Huang    | Auditor             | <i>William.wang</i> |

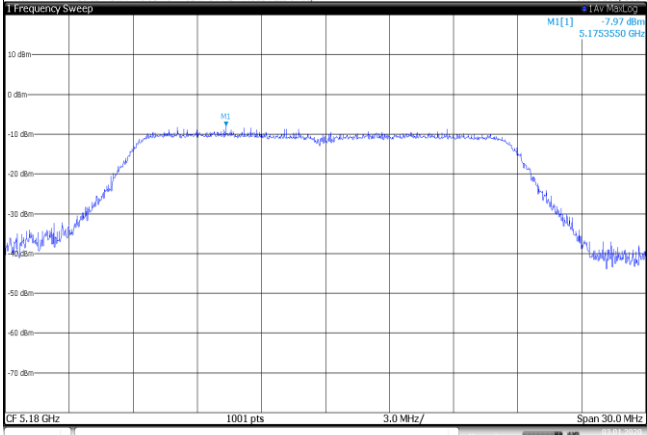
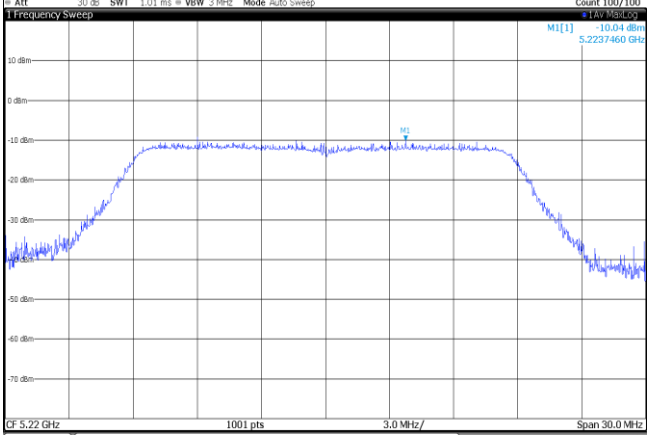
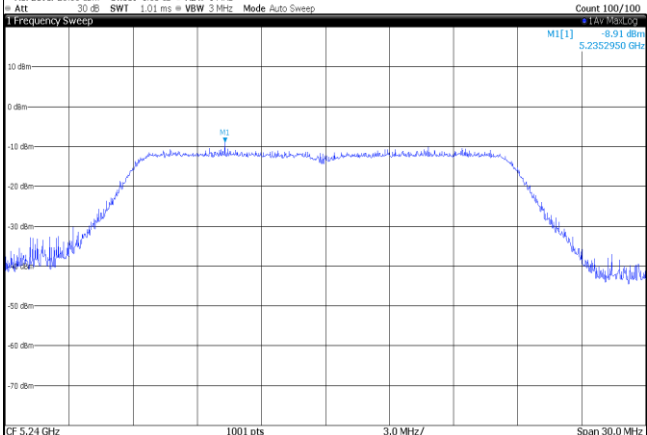
| Appendix clause | Test item                      | Result |
|-----------------|--------------------------------|--------|
| A               | Maximum Conducted Output Power | PASS   |
| B               | Maximum Power Spectral Density | PASS   |
| C               | 26 dB Bandwidth                | PASS   |
| D               | 99% Occupy bandwidth           | PASS   |
| E               | Frequency stability            | PASS   |

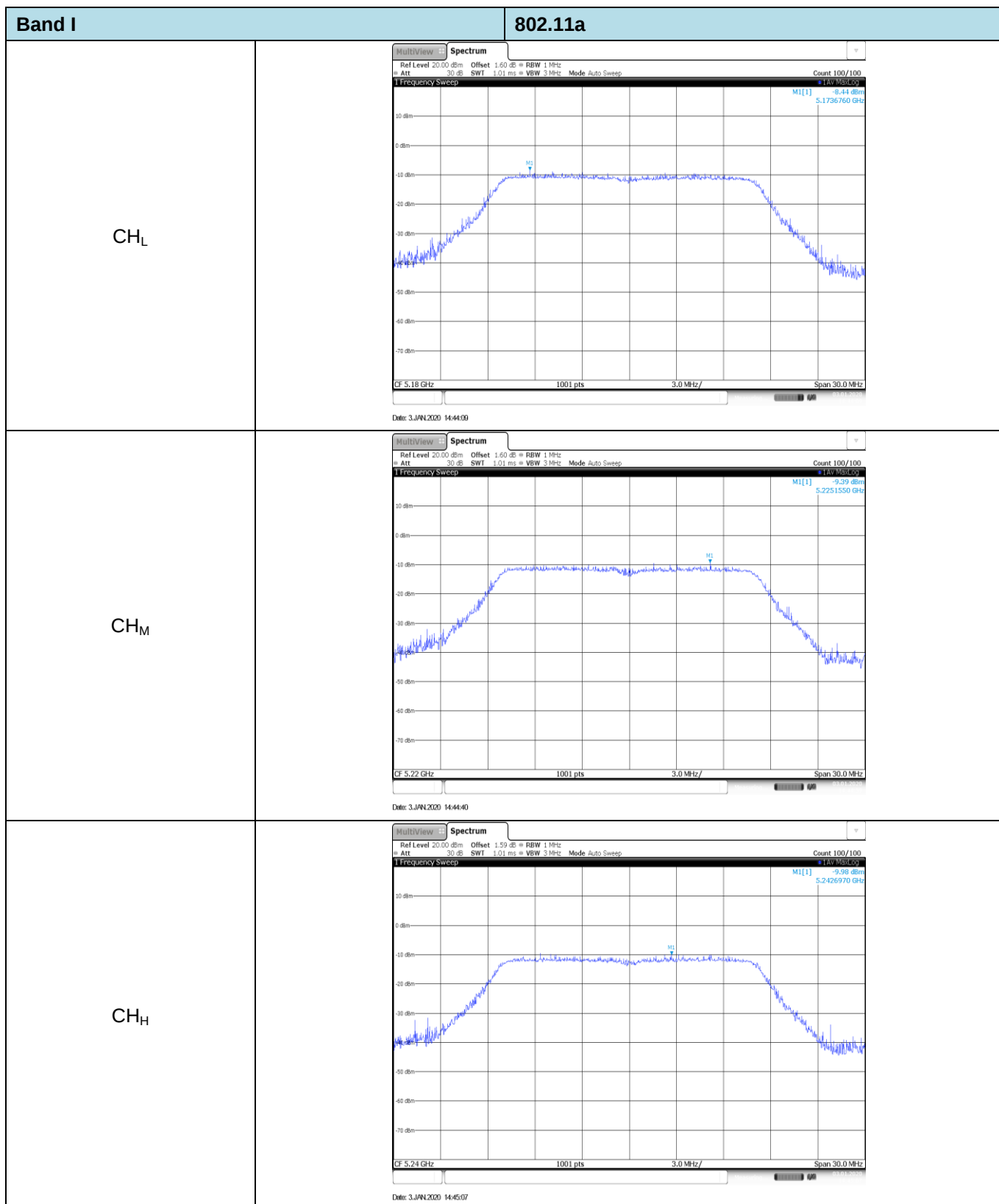
**Appendix A: Maximum Conducted Output Power**

| Band | Bandwidth (MHz) | Type    | Channel         | Conducted Output Power (dBm) | Limit (dBm) | Result |
|------|-----------------|---------|-----------------|------------------------------|-------------|--------|
| I    | 20              | 802.11n | CH <sub>L</sub> | 11.29                        | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 9.86                         |             |        |
|      |                 |         | CH <sub>H</sub> | 9.77                         |             |        |
|      |                 | 802.11a | CH <sub>L</sub> | 11.22                        | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 9.86                         |             |        |
|      |                 |         | CH <sub>H</sub> | 9.76                         |             |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 11.40                        | 24.00       | Pass   |
|      |                 |         | CH <sub>H</sub> | 10.21                        |             |        |
| II   | 20              | 802.11n | CH <sub>L</sub> | 9.55                         | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 9.03                         |             |        |
|      |                 |         | CH <sub>H</sub> | 7.06                         |             |        |
|      |                 | 802.11a | CH <sub>L</sub> | 9.53                         | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 8.96                         |             |        |
|      |                 |         | CH <sub>H</sub> | 6.97                         |             |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 9.81                         | 24.00       | Pass   |
|      |                 |         | CH <sub>H</sub> | 8.15                         |             |        |
| Band | Bandwidth (MHz) | Type    | Channel         | Conducted Output Power (dBm) | Limit (dBm) | Result |
| III  | 20              | 802.11n | CH <sub>L</sub> | 5.26                         | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 5.67                         |             |        |
|      |                 |         | CH <sub>H</sub> | 7.99                         |             |        |
|      |                 | 802.11a | CH <sub>L</sub> | 5.17                         | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 5.67                         |             |        |
|      |                 |         | CH <sub>H</sub> | 7.94                         |             |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 5.91                         | 24.00       | Pass   |
|      |                 |         | CH <sub>M</sub> | 6.21                         |             |        |
|      |                 |         | CH <sub>H</sub> | 7.79                         |             |        |

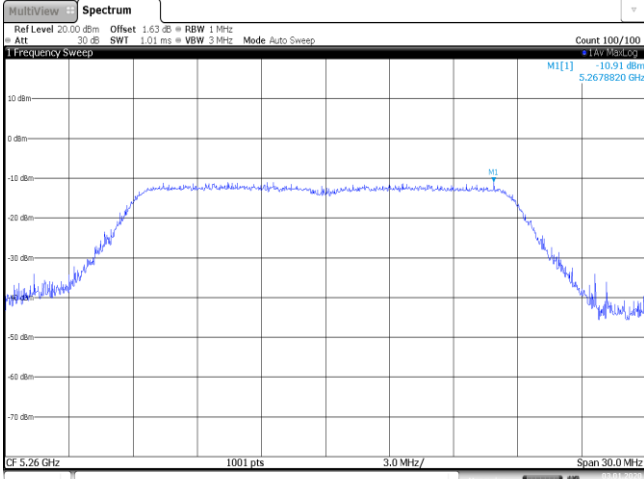
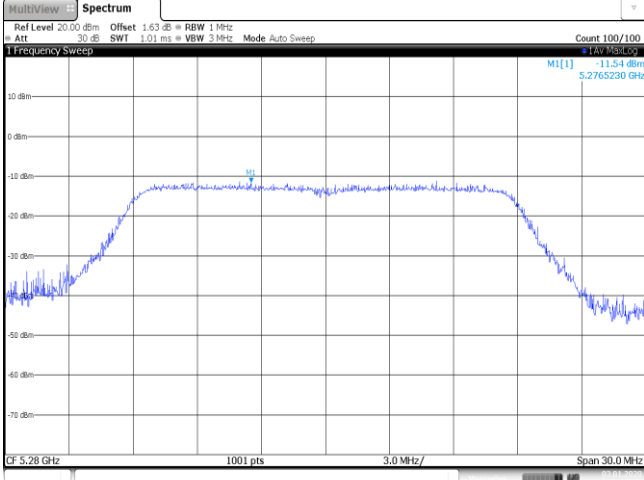
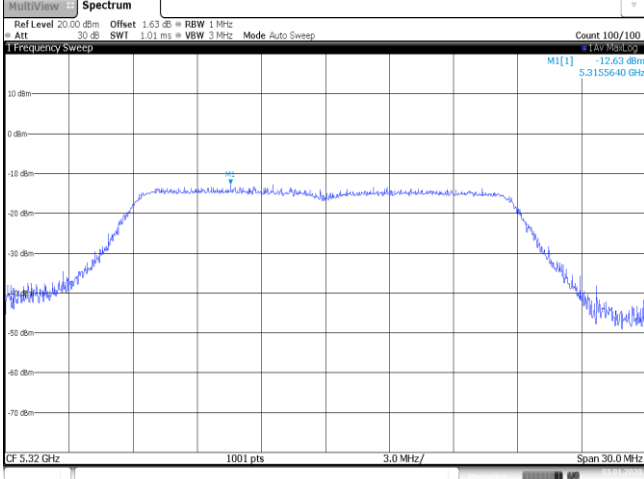
**Appendix B: Maximum Power Spectral Density**

| Band | Bandwidth (MHz) | Type    | Channel         | Power Spectral Density (dBm/MHz) | Limit (dBm/MHz) | Result |
|------|-----------------|---------|-----------------|----------------------------------|-----------------|--------|
| I    | 20              | 802.11n | CH <sub>L</sub> | -7.97                            | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -10.04                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -8.91                            |                 |        |
|      |                 | 802.11a | CH <sub>L</sub> | -8.44                            | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -9.39                            |                 |        |
|      |                 |         | CH <sub>H</sub> | -9.98                            |                 |        |
|      | 40              | 802.11n | CH <sub>L</sub> | -11.26                           | 11.00           | Pass   |
|      |                 |         | CH <sub>H</sub> | -12.18                           |                 |        |
| II   | 20              | 802.11n | CH <sub>L</sub> | -10.91                           | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -11.54                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -12.63                           |                 |        |
|      |                 | 802.11a | CH <sub>L</sub> | -10.75                           | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -10.65                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -13.17                           |                 |        |
|      | 40              | 802.11n | CH <sub>L</sub> | -12.81                           | 11.00           | Pass   |
|      |                 |         | CH <sub>H</sub> | -14.30                           |                 |        |
| Band | Bandwidth (MHz) | Type    | Channel         | Power Spectral Density (dBm/MHz) | Limit (dBm/MHz) | Result |
| III  | 20              | 802.11n | CH <sub>L</sub> | -14.26                           | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -12.85                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -9.73                            |                 |        |
|      |                 | 802.11a | CH <sub>L</sub> | -14.09                           | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -12.22                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -9.61                            |                 |        |
|      | 40              | 802.11n | CH <sub>L</sub> | -16.07                           | 11.00           | Pass   |
|      |                 |         | CH <sub>M</sub> | -15.40                           |                 |        |
|      |                 |         | CH <sub>H</sub> | -13.34                           |                 |        |

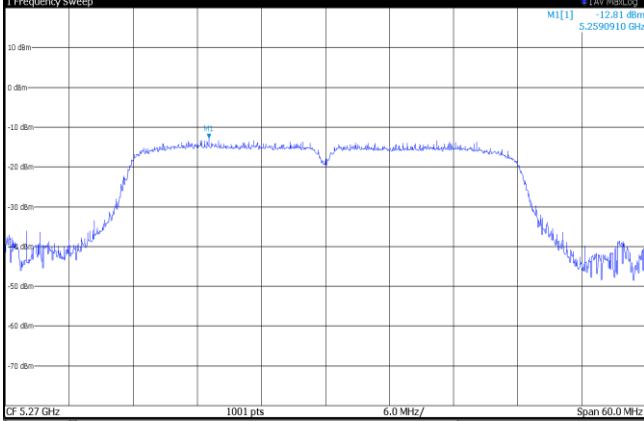
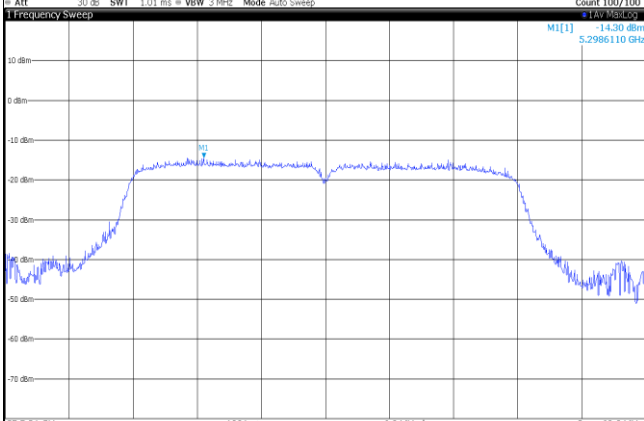
| Band I          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 802.11n (HT20) |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.64 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -7.97 dBm</div><div>5.1753550 GHz</div></div></div><div><div>CF 5.18 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:46:28</div></div></div>   |                |
| CH <sub>M</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.63 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -10.04 dBm</div><div>5.2237460 GHz</div></div></div><div><div>CF 5.22 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:46:53</div></div></div> |                |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.63 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -8.91 dBm</div><div>5.2352950 GHz</div></div></div><div><div>CF 5.24 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:47:16</div></div></div> |                |

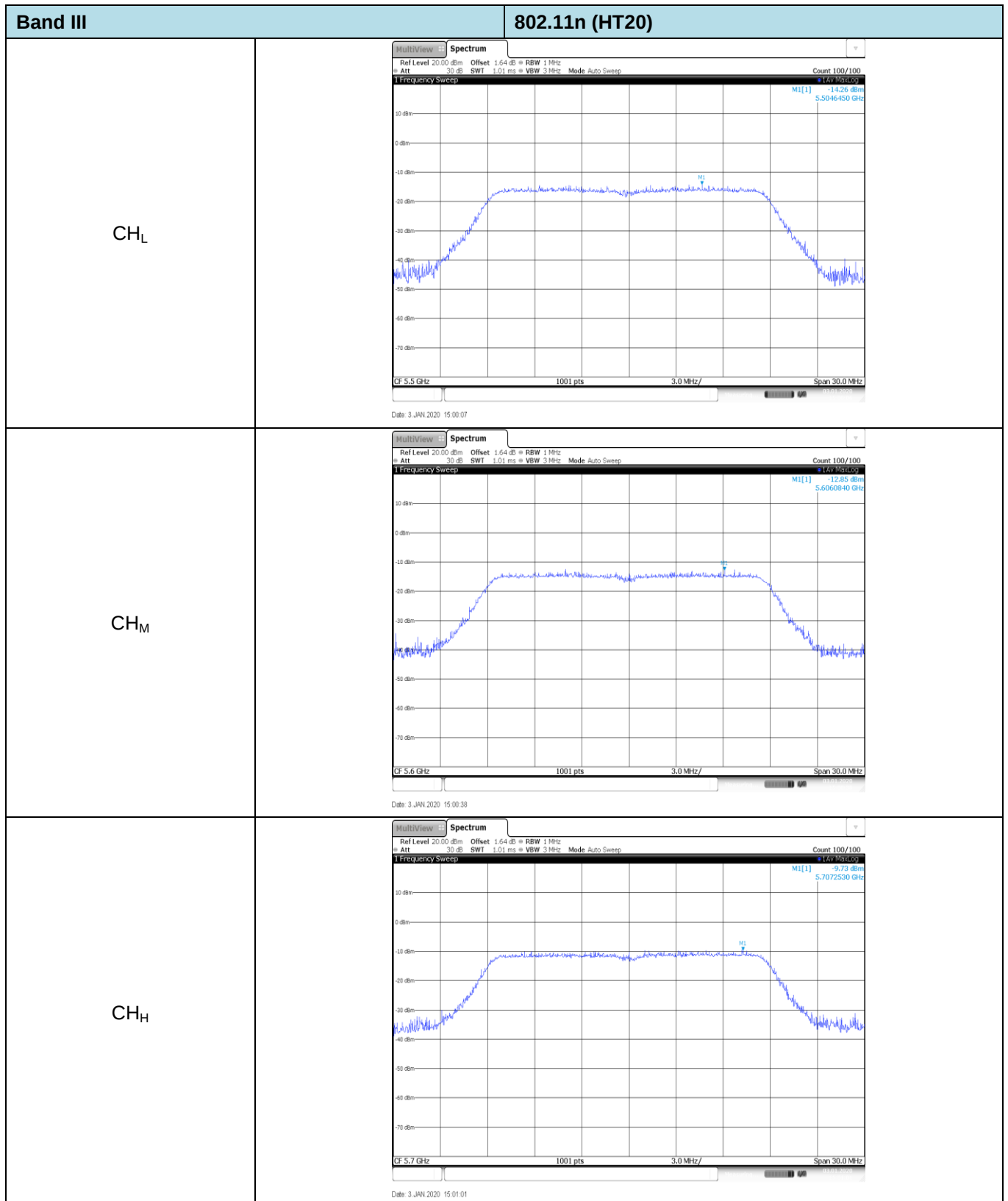


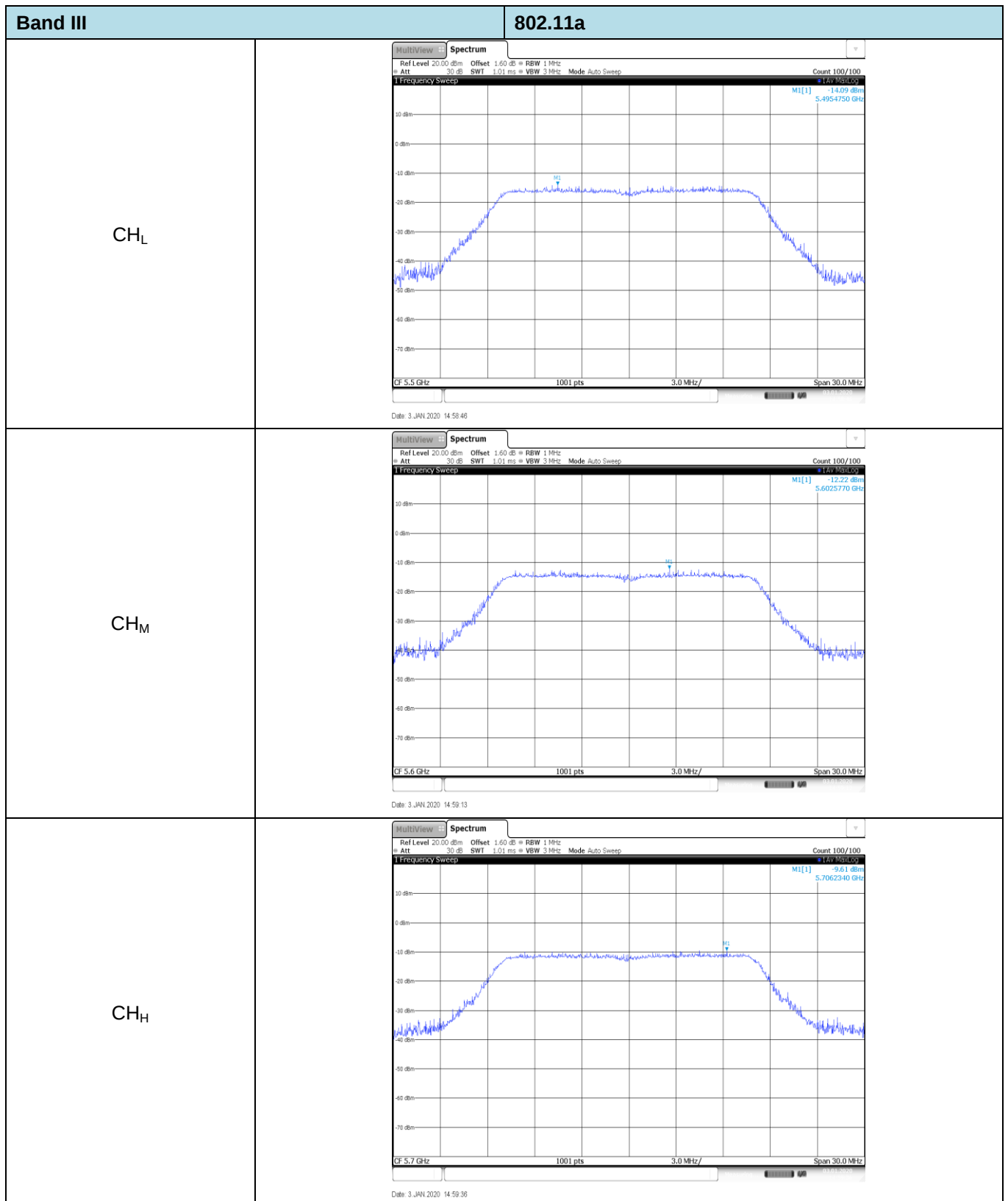
| Band I          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 802.11n (HT40) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -11.26 dBm</div><div>5.1809490 GHz</div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>CF 5.19 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div><div>Date: 3/JUN/2020 14:48:33</div></div></div></div> |                |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -12.18 dBm</div><div>5.2179520 GHz</div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>CF 5.23 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div><div>Date: 3/JUN/2020 14:48:06</div></div></div></div> |                |

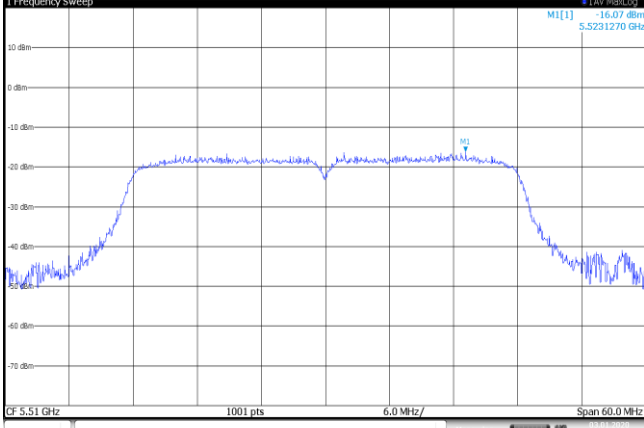
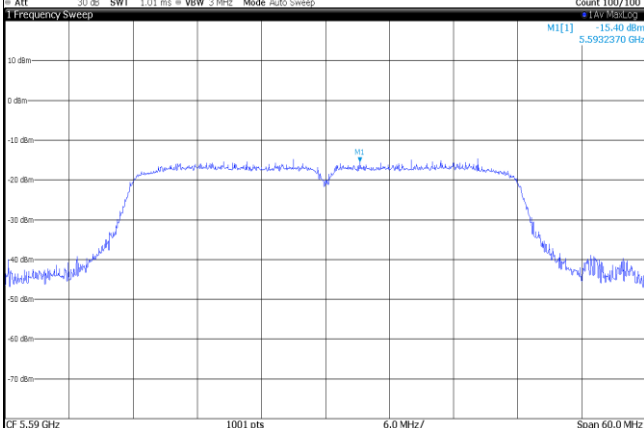
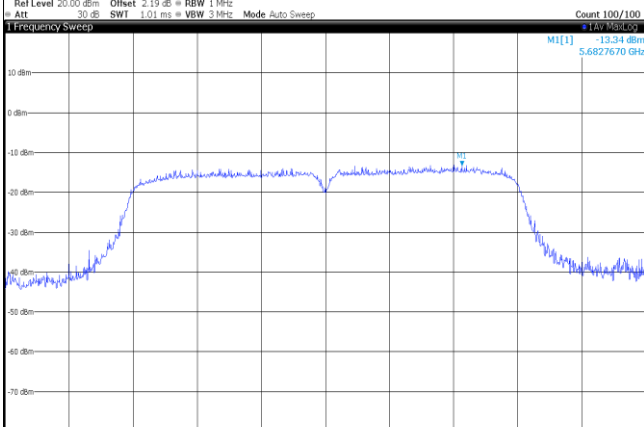
| Band II         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 802.11n (HT20) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.63 dB</div><div>RBW 1 MHz</div><div>Att -30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -10.91 dBm</div><div>5.2678820 GHz</div></div></div><div></div><div>CF 5.26 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:54:04</div></div>   |                |
| CH <sub>M</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.63 dB</div><div>RBW 1 MHz</div><div>Att -30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -11.54 dBm</div><div>5.2765230 GHz</div></div></div><div></div><div>CF 5.28 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:54:29</div></div>  |                |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.63 dB</div><div>RBW 1 MHz</div><div>Att -30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MI[1] -12.63 dBm</div><div>5.3155640 GHz</div></div></div><div></div><div>CF 5.32 GHz1001 pts3.0 MHz/Span 30.0 MHz</div><div>Date: 3.JUN.2020 14:54:56</div></div> |                |

| Band II         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 802.11a |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.59 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>CF 5.26 GHz</div><div>1001 pts</div><div>3.0 MHz/</div><div>Span 30.0 MHz</div><div>MU[1] -10.75 dBm</div><div>5.2638060 GHz</div><div>14:52:27</div></div></div> |         |
| CH <sub>M</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.59 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>CF 5.28 GHz</div><div>1001 pts</div><div>3.0 MHz/</div><div>Span 30.0 MHz</div><div>MU[1] -10.65 dBm</div><div>5.2838360 GHz</div><div>14:52:53</div></div></div> |         |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 1.59 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>CF 5.32 GHz</div><div>1001 pts</div><div>3.0 MHz/</div><div>Span 30.0 MHz</div><div>MU[1] -13.17 dBm</div><div>5.3256640 GHz</div><div>14:53:27</div></div></div> |         |

| Band II         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 802.11n (HT40) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MU[1] -12.81 dBm</div><div>5.2590910 GHz</div></div><div></div><div><div>CF 5.27 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div></div></div><div>Date: 3/JUN/2020 14:55:41</div></div>  |                |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div><div>Count 100/100</div><div>1 Frequency Sweep</div><div>MU[1] -14.30 dBm</div><div>5.2986110 GHz</div></div><div></div><div><div>CF 5.31 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div></div></div><div>Date: 3/JUN/2020 14:56:10</div></div> |                |

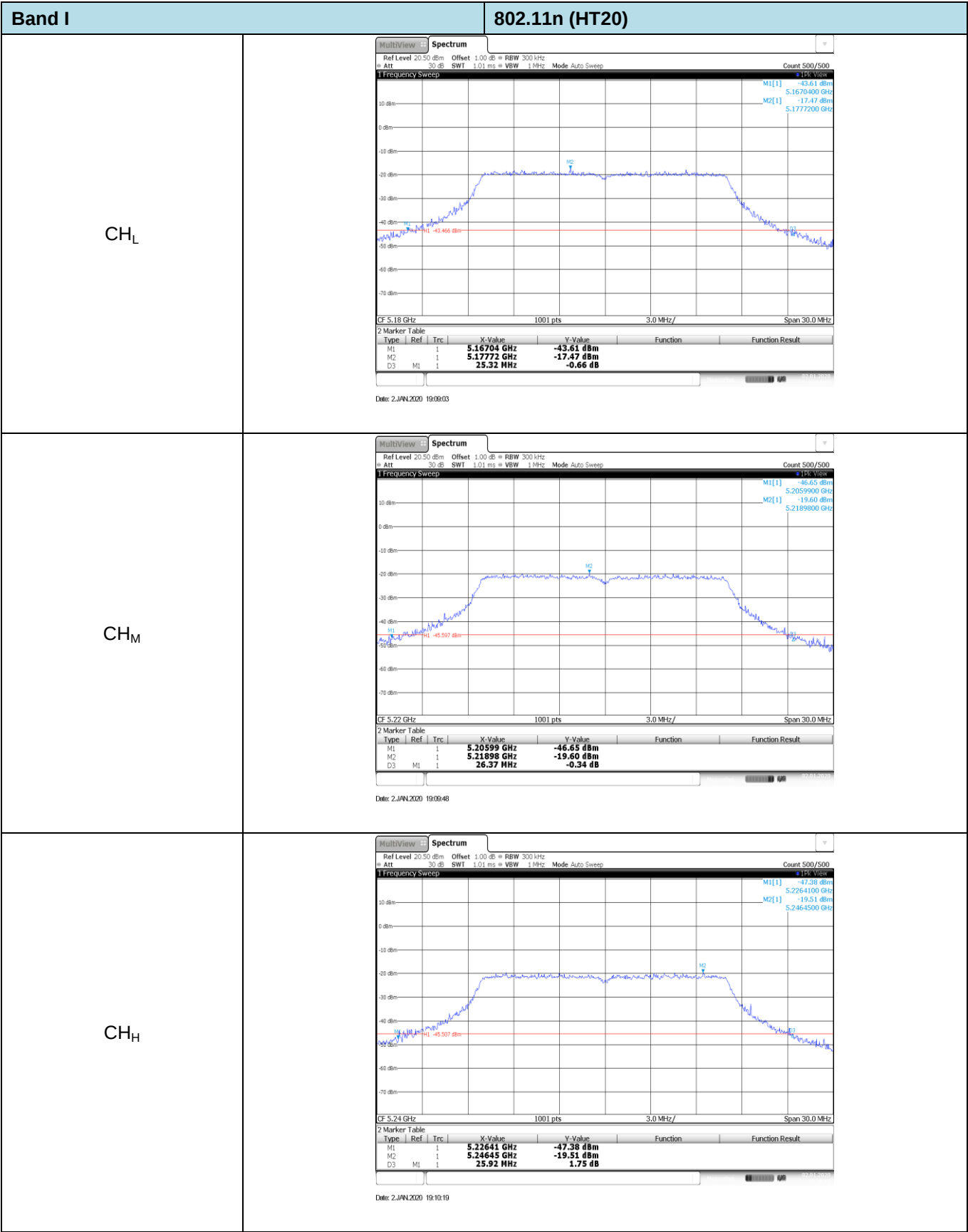


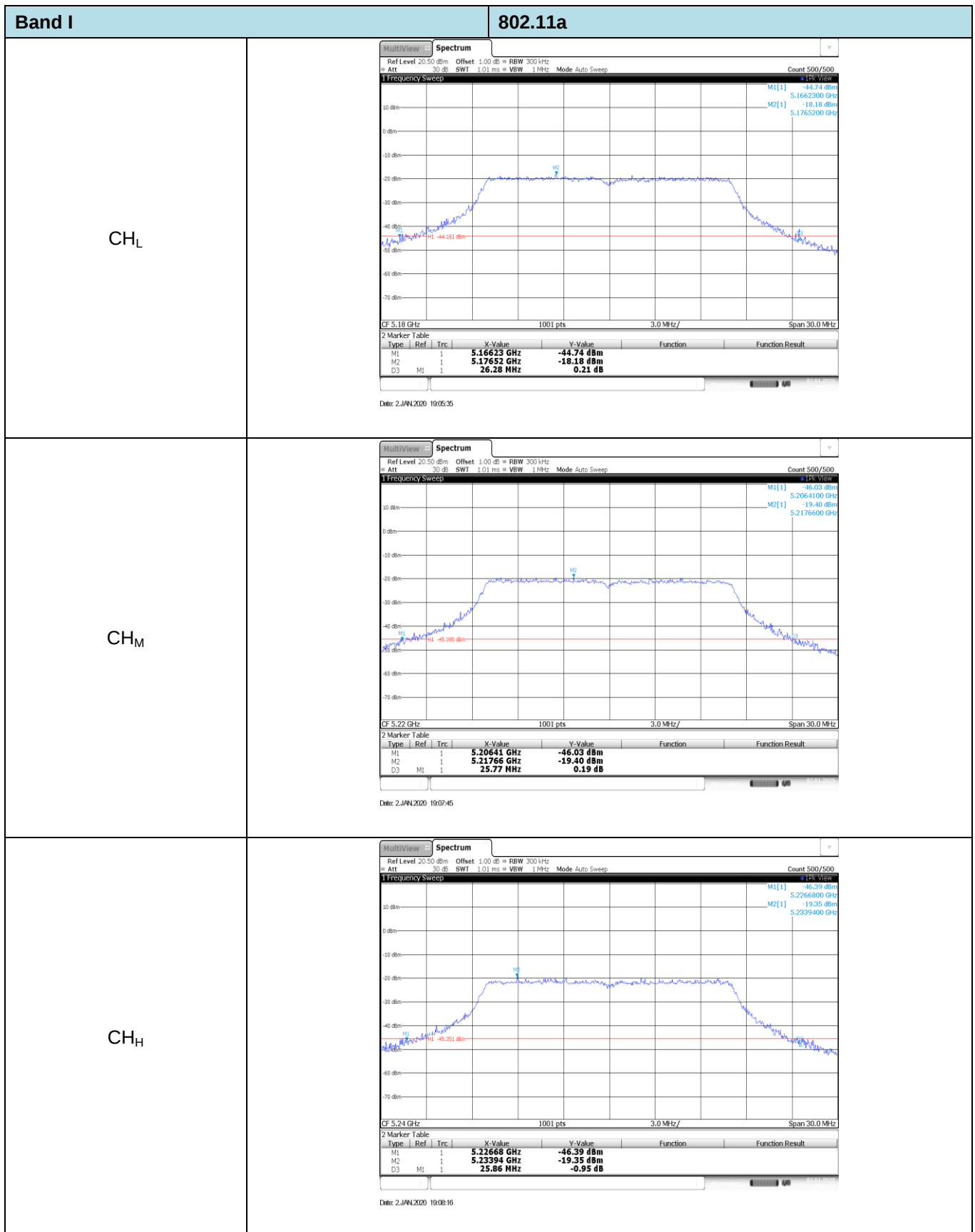


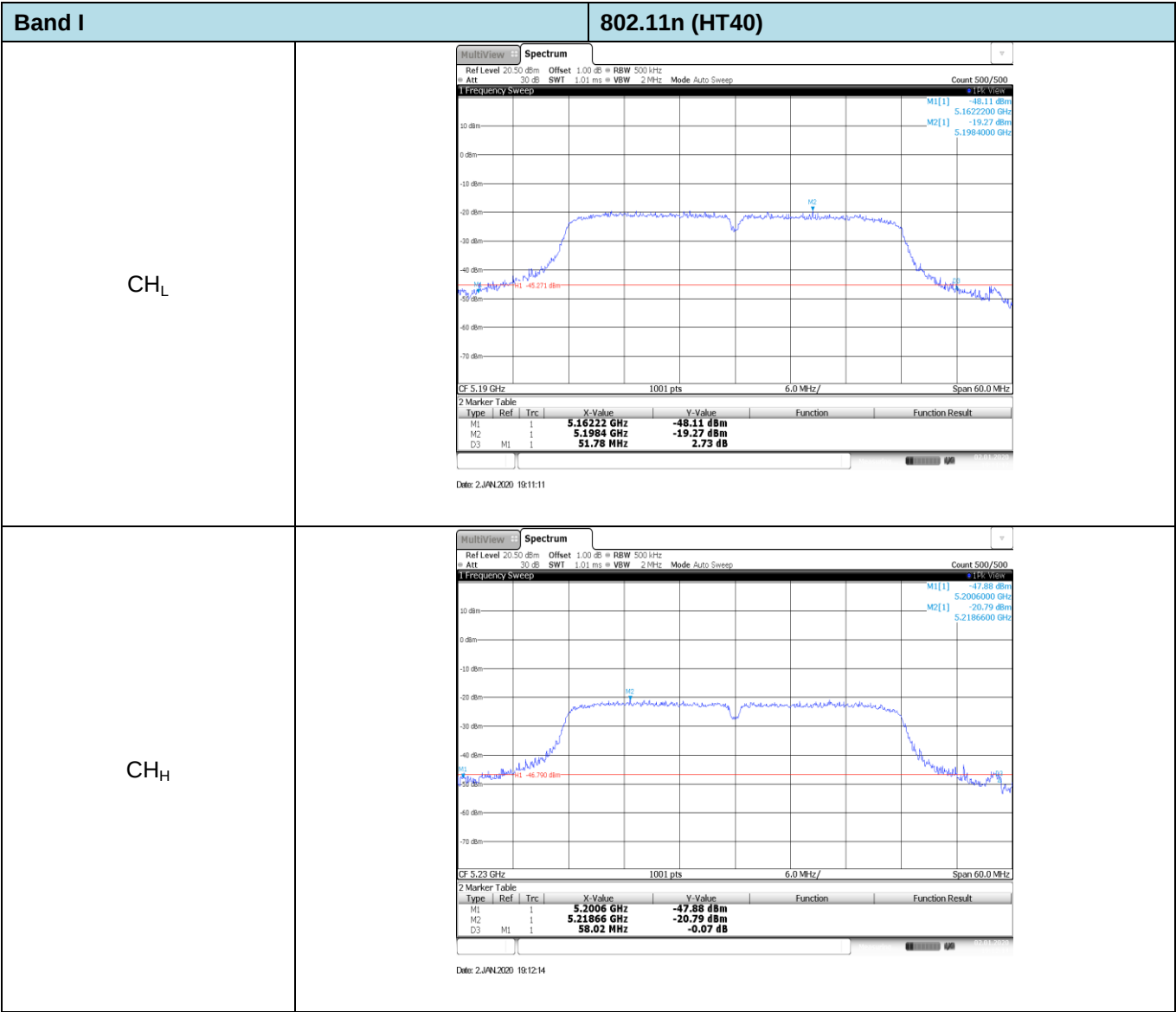
| Band III        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 802.11n (HT40) |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CH <sub>L</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div></div><div><div>1 Frequency Sweep</div><div><div>MU[1]</div><div>-16.07 dBm</div><div>5.5231270 GHz</div></div></div><div></div><div><div>CF 5.51 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div></div><div>Date: 3 JAN 2020 15:01:34</div></div>   |                |
| CH <sub>M</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.20 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div></div><div><div>1 Frequency Sweep</div><div><div>MU[1]</div><div>-15.40 dBm</div><div>5.5932370 GHz</div></div></div><div></div><div><div>CF 5.59 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div></div><div>Date: 3 JAN 2020 15:02:02</div></div>  |                |
| CH <sub>H</sub> | <div><div><div><div>MultiView</div><div>Spectrum</div><div></div></div><div><div>Ref Level 20.00 dBm</div><div>Offset 2.19 dB</div><div>RBW 1 MHz</div><div>Att 30 dB</div><div>SWT 1.01 ms</div><div>VBW 3 MHz</div><div>Mode Auto Sweep</div></div><div>Count 100/100</div></div><div><div>1 Frequency Sweep</div><div><div>MU[1]</div><div>-13.34 dBm</div><div>5.6827670 GHz</div></div></div><div></div><div><div>CF 5.67 GHz</div><div>1001 pts</div><div>6.0 MHz/</div><div>Span 60.0 MHz</div></div><div>Date: 3 JAN 2020 15:02:30</div></div> |                |

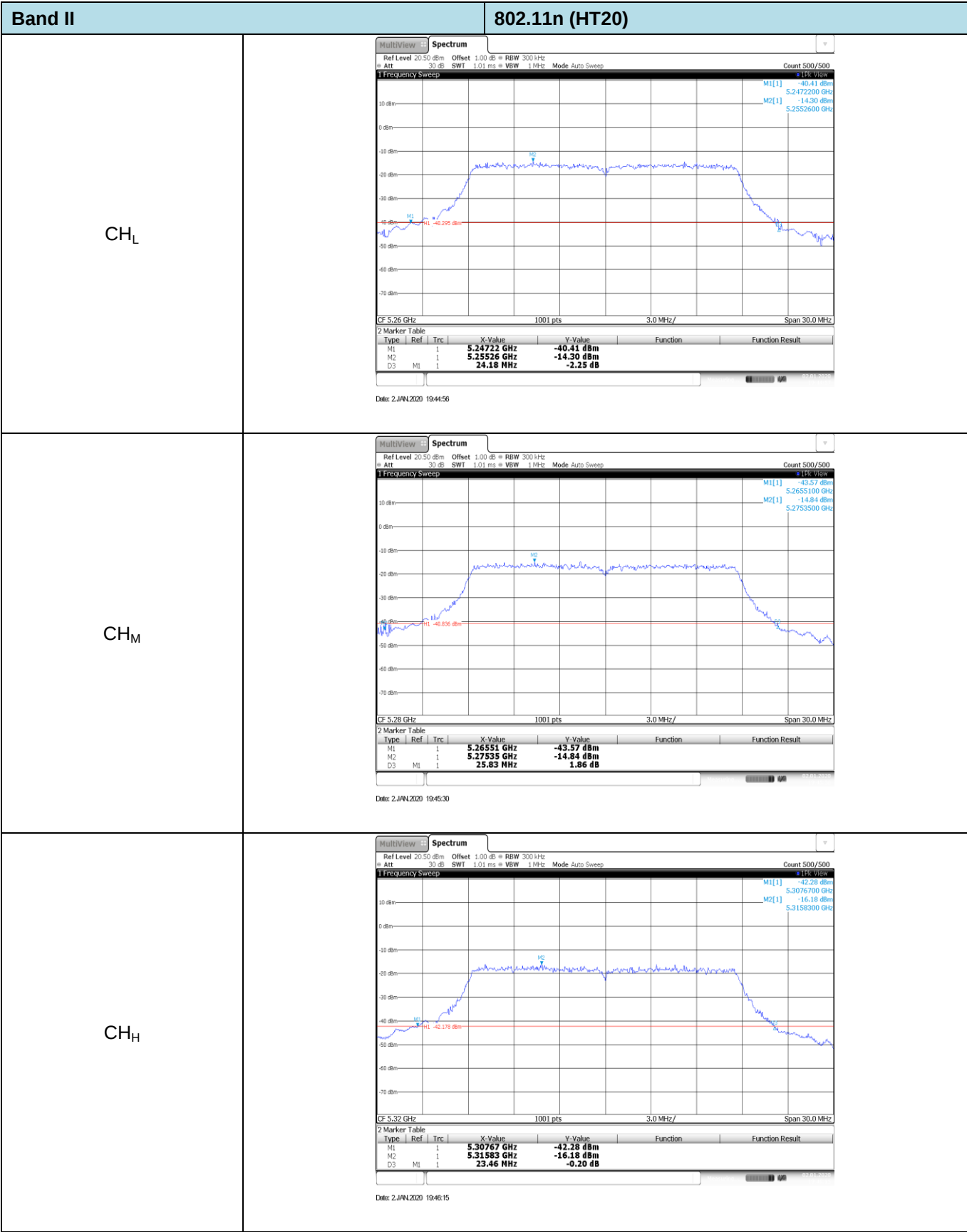
**Appendix C: 26dB bandwidth**

| Band | Bandwidth (MHz) | Type    | Channel         | 26dB bandwidth (MHz) | Result |
|------|-----------------|---------|-----------------|----------------------|--------|
| I    | 20              | 802.11n | CH <sub>L</sub> | 25.32                | Pass   |
|      |                 |         | CH <sub>M</sub> | 26.37                |        |
|      |                 |         | CH <sub>H</sub> | 25.92                |        |
|      |                 | 802.11a | CH <sub>L</sub> | 26.28                | Pass   |
|      |                 |         | CH <sub>M</sub> | 25.77                |        |
|      |                 |         | CH <sub>H</sub> | 25.86                |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 51.78                | Pass   |
|      |                 |         | CH <sub>H</sub> | 58.02                |        |
| II   | 20              | 802.11n | CH <sub>L</sub> | 24.18                | Pass   |
|      |                 |         | CH <sub>M</sub> | 25.83                |        |
|      |                 |         | CH <sub>H</sub> | 23.46                |        |
|      |                 | 802.11a | CH <sub>L</sub> | 23.16                | Pass   |
|      |                 |         | CH <sub>M</sub> | 22.41                |        |
|      |                 |         | CH <sub>H</sub> | 22.86                |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 53.94                | Pass   |
|      |                 |         | CH <sub>H</sub> | 57.84                |        |
| Band | Bandwidth (MHz) | Type    | Channel         | 26dB bandwidth (MHz) | Result |
| III  | 20              | 802.11n | CH <sub>L</sub> | 23.43                | Pass   |
|      |                 |         | CH <sub>M</sub> | 23.10                |        |
|      |                 |         | CH <sub>H</sub> | 22.92                |        |
|      |                 | 802.11a | CH <sub>L</sub> | 23.19                | Pass   |
|      |                 |         | CH <sub>M</sub> | 22.62                |        |
|      |                 |         | CH <sub>H</sub> | 22.71                |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 60.00                | Pass   |
|      |                 |         | CH <sub>M</sub> | 58.62                |        |
|      |                 |         | CH <sub>H</sub> | 59.94                |        |

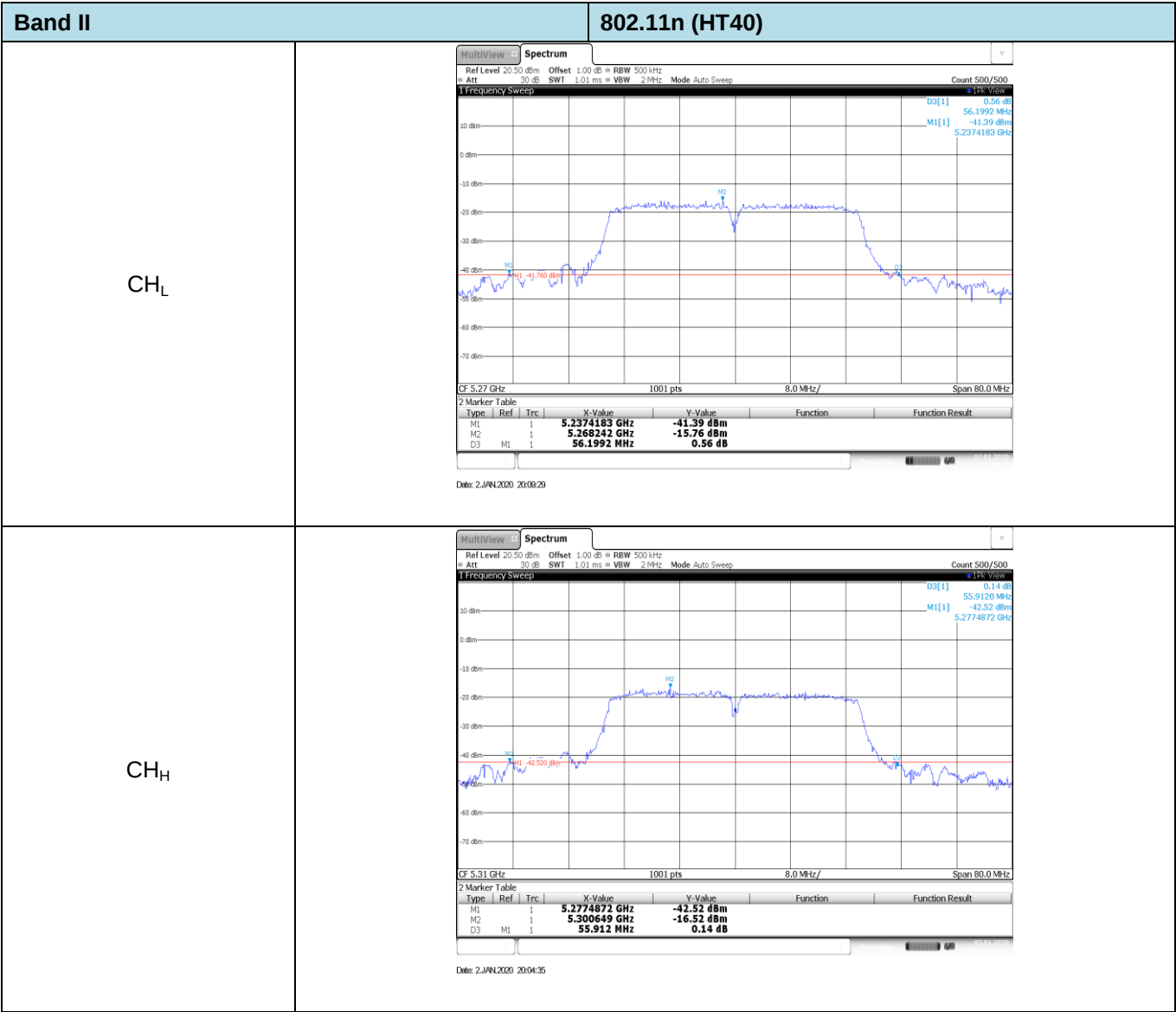


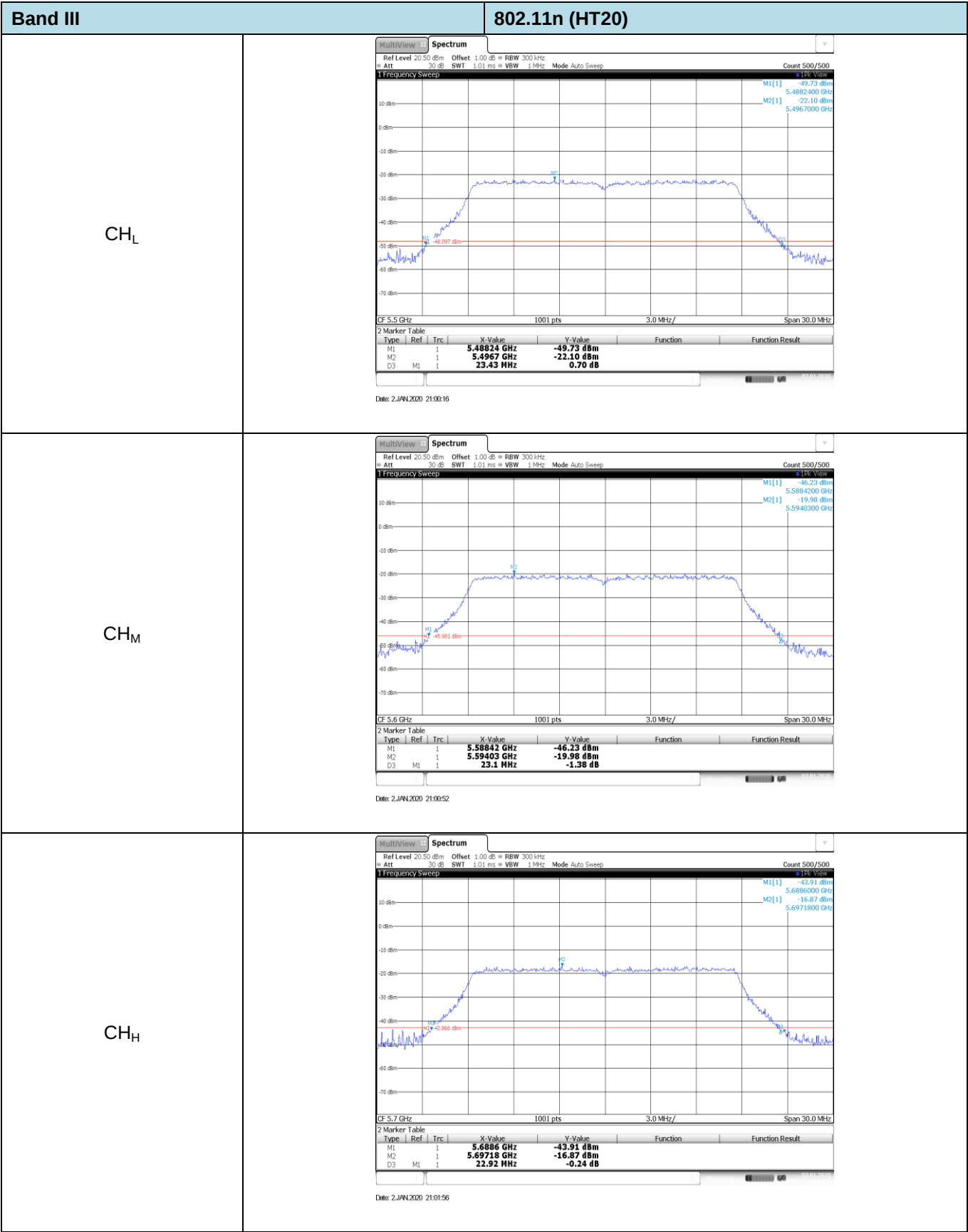






| Band     | Chemical Shift (ppm) | Frequency (MHz) | Power (dBm) |
|----------|----------------------|-----------------|-------------|
| Band II  | CH <sub>L</sub>      | 802.11a         | -40.97      |
|          |                      | 802.11a         | -14.55      |
|          |                      | 802.11a         | -0.82       |
| Band III | CH <sub>M</sub>      | 802.11a         | -41.77      |
|          |                      | 802.11a         | -14.57      |
|          |                      | 802.11a         | 0.24        |
| Band IV  | CH <sub>H</sub>      | 802.11a         | -44.63      |
|          |                      | 802.11a         | -16.08      |
|          |                      | 802.11a         | 2.51        |





Band III

802.11a

CH<sub>L</sub>

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz  
ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

M1[1] -44.74 dBm  
M2[1] -18.44 dBm  
M2[1] 5.5008700 GHz

CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

| Type | Ref | Trc | X-Value     | Y-Value    | Function | Function Result |
|------|-----|-----|-------------|------------|----------|-----------------|
| M1   | 1   |     | 5.48857 GHz | -44.74 dBm |          |                 |
| M2   | 1   |     | 5.50087 GHz | -18.44 dBm |          |                 |
| D3   | M1  | 1   | 23.19 MHz   | -0.65 dB   |          |                 |

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CH<sub>M</sub>

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz  
ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

M1[1] -46.96 dBm  
M2[1] -19.69 dBm  
M2[1] 5.5957400 GHz

CF 5.6 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

| Type | Ref | Trc | X-Value     | Y-Value    | Function | Function Result |
|------|-----|-----|-------------|------------|----------|-----------------|
| M1   | 1   |     | 5.58872 GHz | -46.96 dBm |          |                 |
| M2   | 1   |     | 5.59574 GHz | -19.69 dBm |          |                 |
| D3   | M1  | 1   | 22.62 MHz   | 0.65 dB    |          |                 |

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CH<sub>H</sub>

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz  
ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

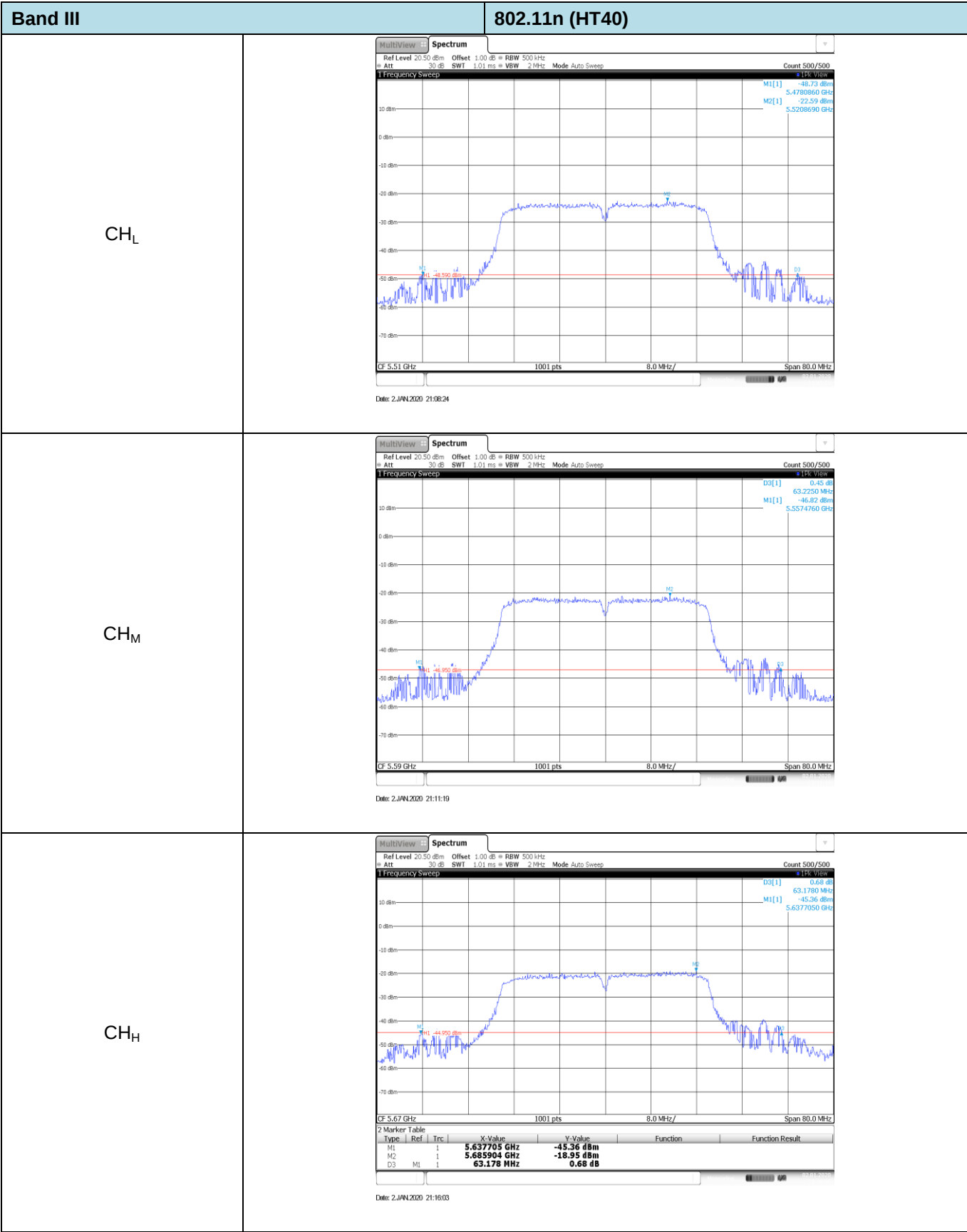
1 Frequency Sweep

M1[1] -44.00 dBm  
M2[1] -16.77 dBm  
M2[1] 5.6982600 GHz

CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

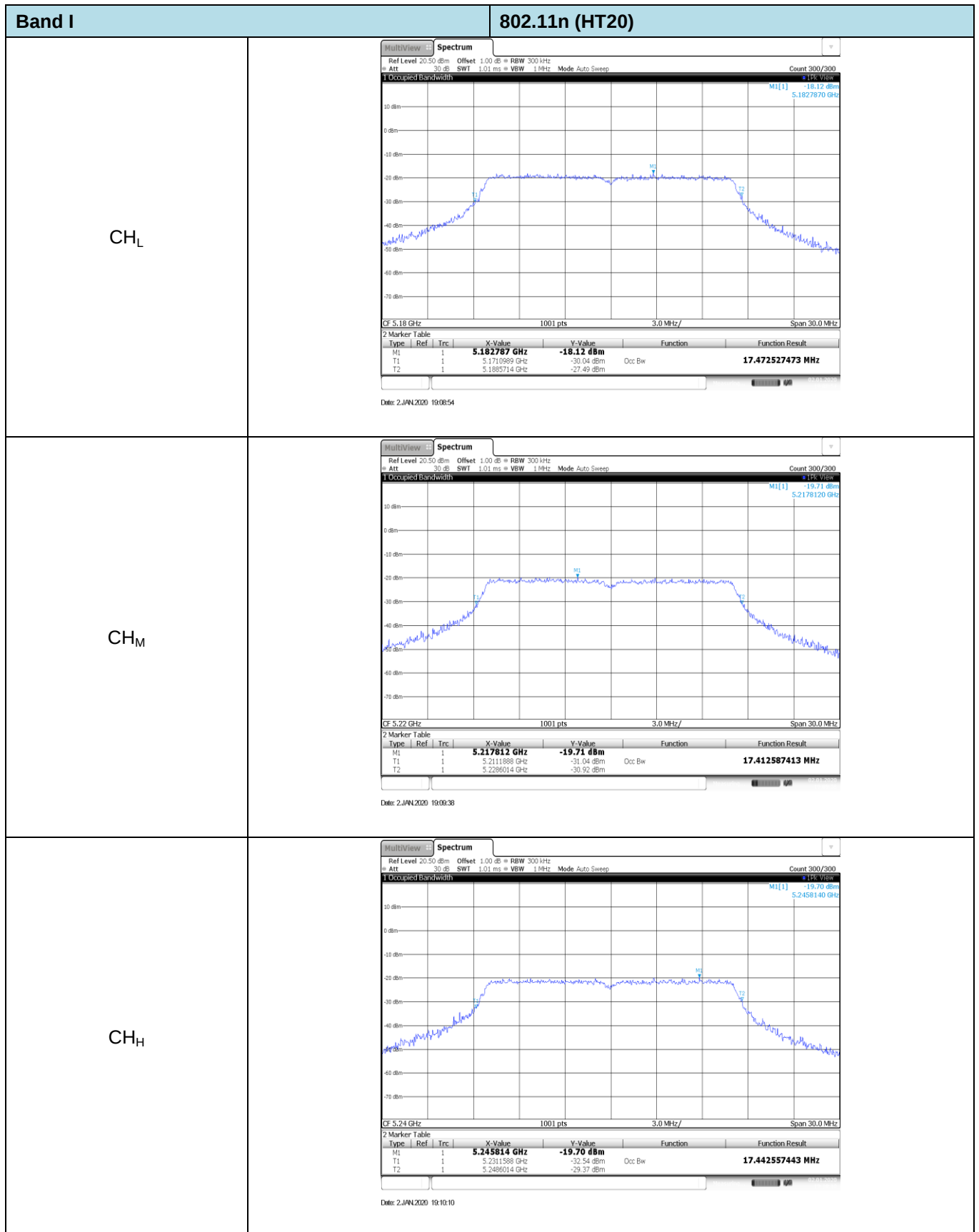
| Type | Ref | Trc | X-Value     | Y-Value    | Function | Function Result |
|------|-----|-----|-------------|------------|----------|-----------------|
| M1   | 1   |     | 5.68863 GHz | -44.00 dBm |          |                 |
| M2   | 1   |     | 5.69826 GHz | -16.77 dBm |          |                 |
| D3   | M1  | 1   | 22.71 MHz   | 0.04 dB    |          |                 |

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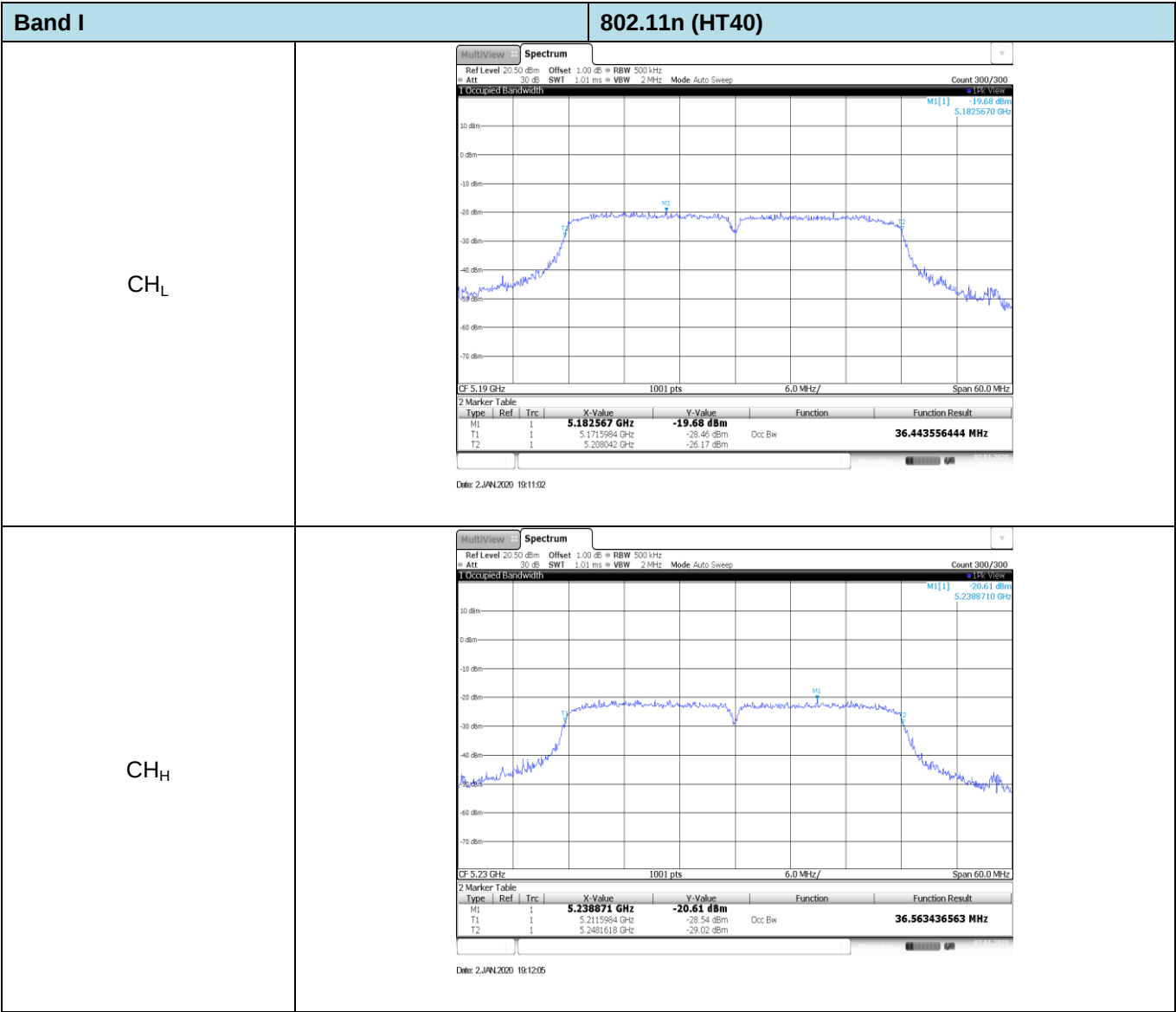


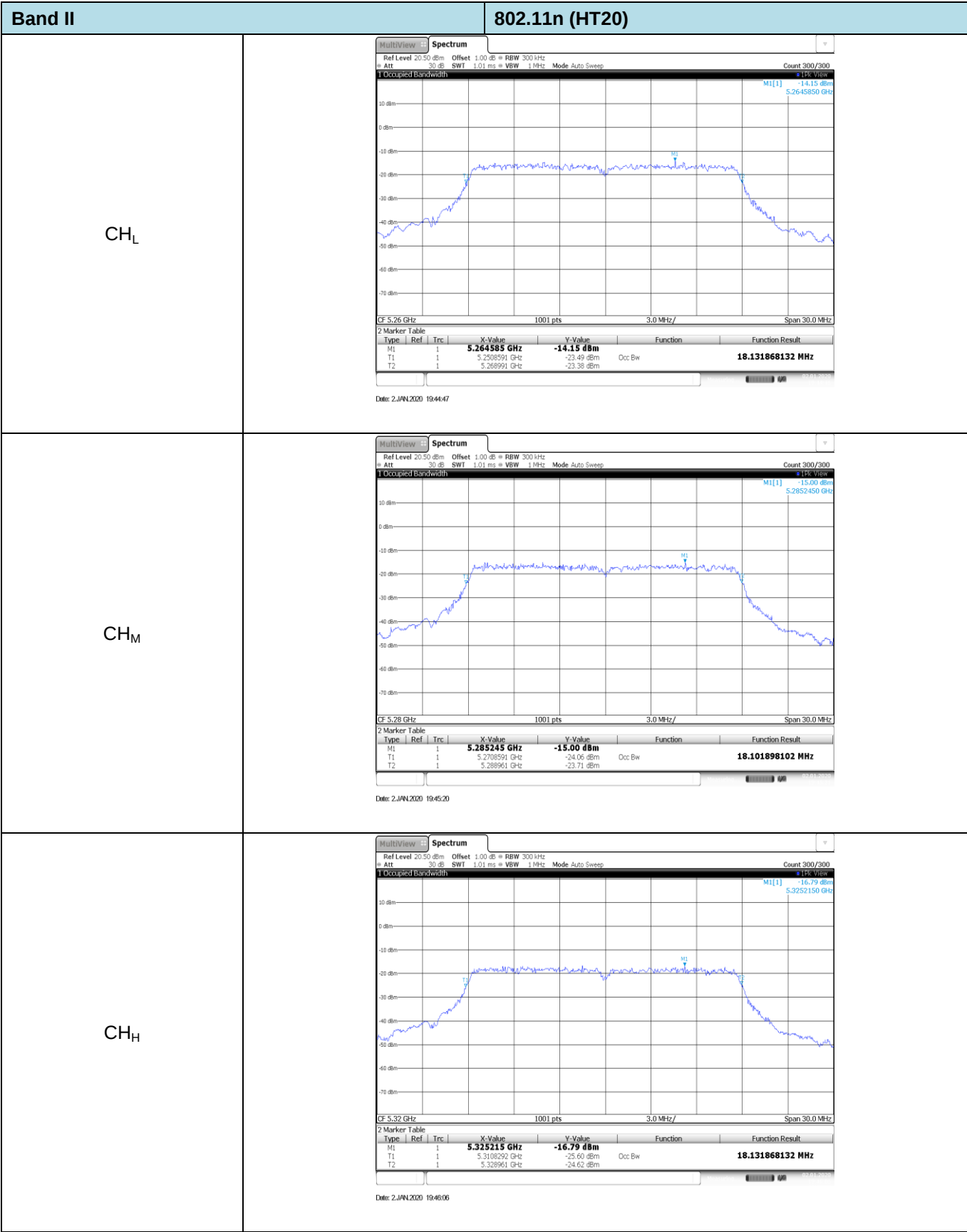
**Appendix D: 99% Occupy bandwidth**

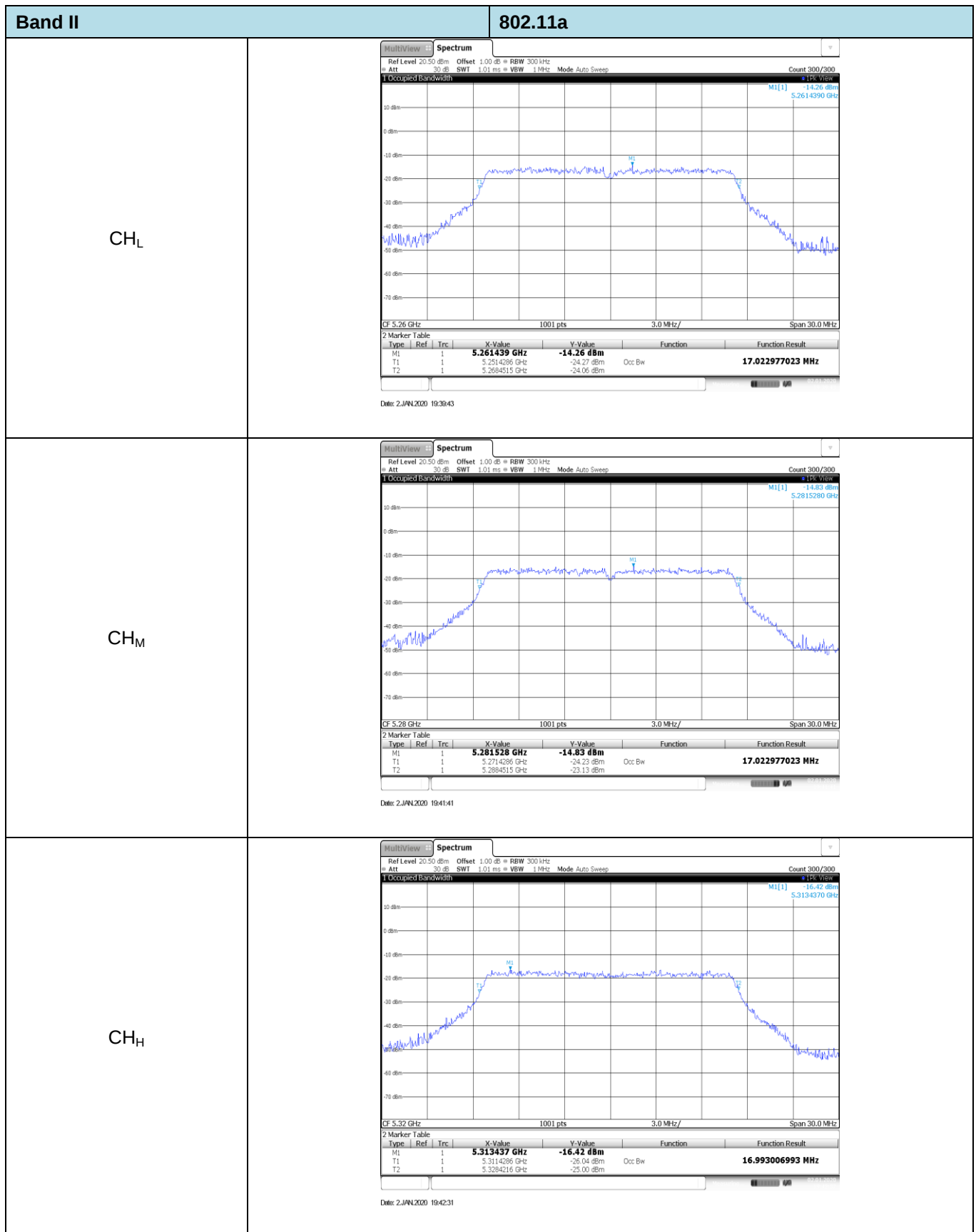
| Band | Bandwidth (MHz) | Type    | Channel         | 99% Occupy bandwidth (MHz) | Result |
|------|-----------------|---------|-----------------|----------------------------|--------|
| I    | 20              | 802.11n | CH <sub>L</sub> | 17.47                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 17.41                      |        |
|      |                 |         | CH <sub>H</sub> | 17.44                      |        |
|      |                 | 802.11a | CH <sub>L</sub> | 17.47                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 17.53                      |        |
|      |                 |         | CH <sub>H</sub> | 17.41                      |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 36.44                      | Pass   |
|      |                 |         | CH <sub>H</sub> | 36.56                      |        |
| II   | 20              | 802.11n | CH <sub>L</sub> | 18.13                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 18.10                      |        |
|      |                 |         | CH <sub>H</sub> | 18.13                      |        |
|      |                 | 802.11a | CH <sub>L</sub> | 17.02                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 17.02                      |        |
|      |                 |         | CH <sub>H</sub> | 16.99                      |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 36.62                      | Pass   |
|      |                 |         | CH <sub>H</sub> | 36.62                      |        |
| Band | Bandwidth (MHz) | Type    | Channel         | 99% Occupy bandwidth (MHz) | Result |
| III  | 20              | 802.11n | CH <sub>L</sub> | 18.19                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 18.16                      |        |
|      |                 |         | CH <sub>H</sub> | 18.16                      |        |
|      |                 | 802.11a | CH <sub>L</sub> | 17.20                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 17.26                      |        |
|      |                 |         | CH <sub>H</sub> | 17.20                      |        |
|      | 40              | 802.11n | CH <sub>L</sub> | 36.56                      | Pass   |
|      |                 |         | CH <sub>M</sub> | 36.50                      |        |
|      |                 |         | CH <sub>H</sub> | 36.50                      |        |

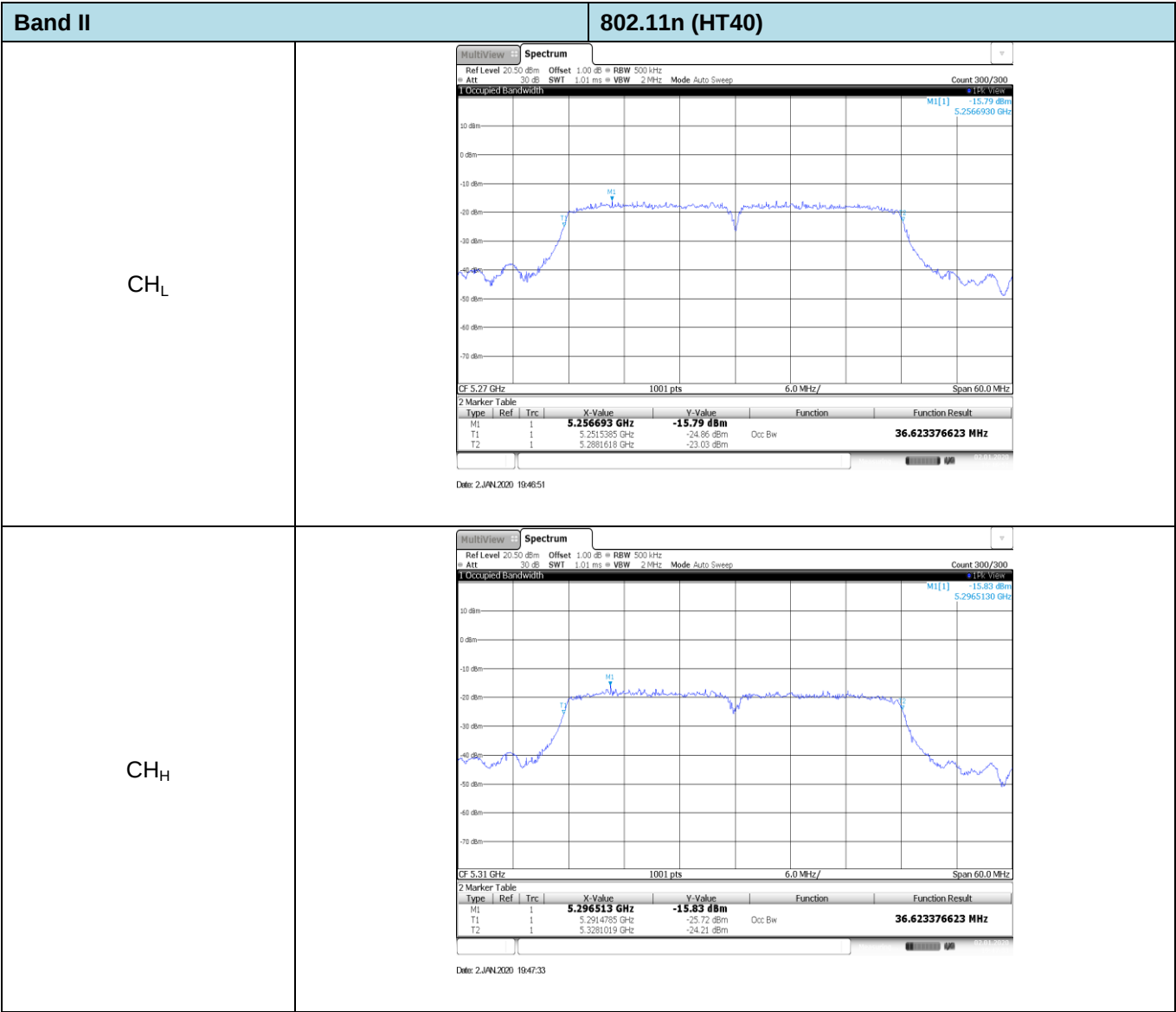


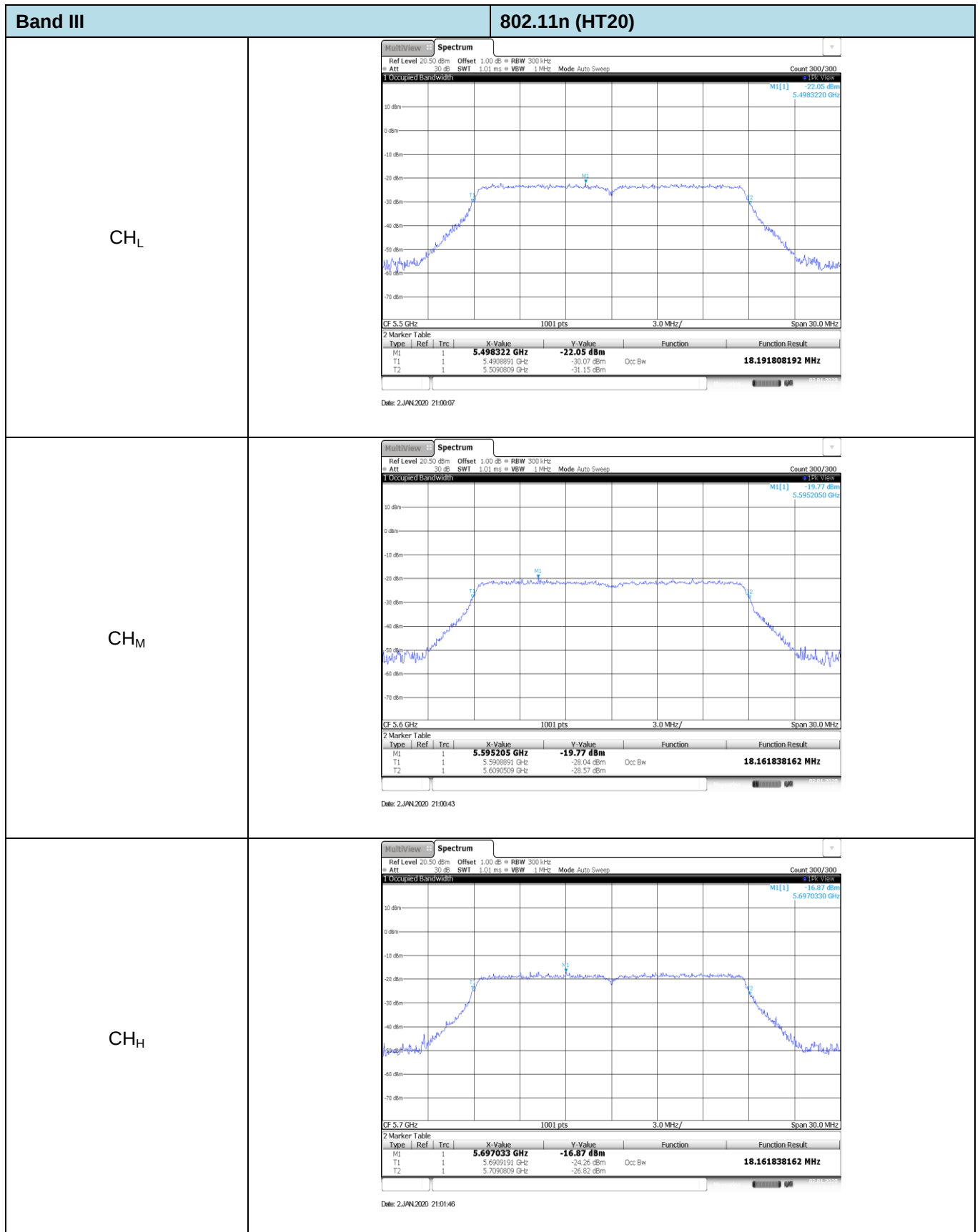


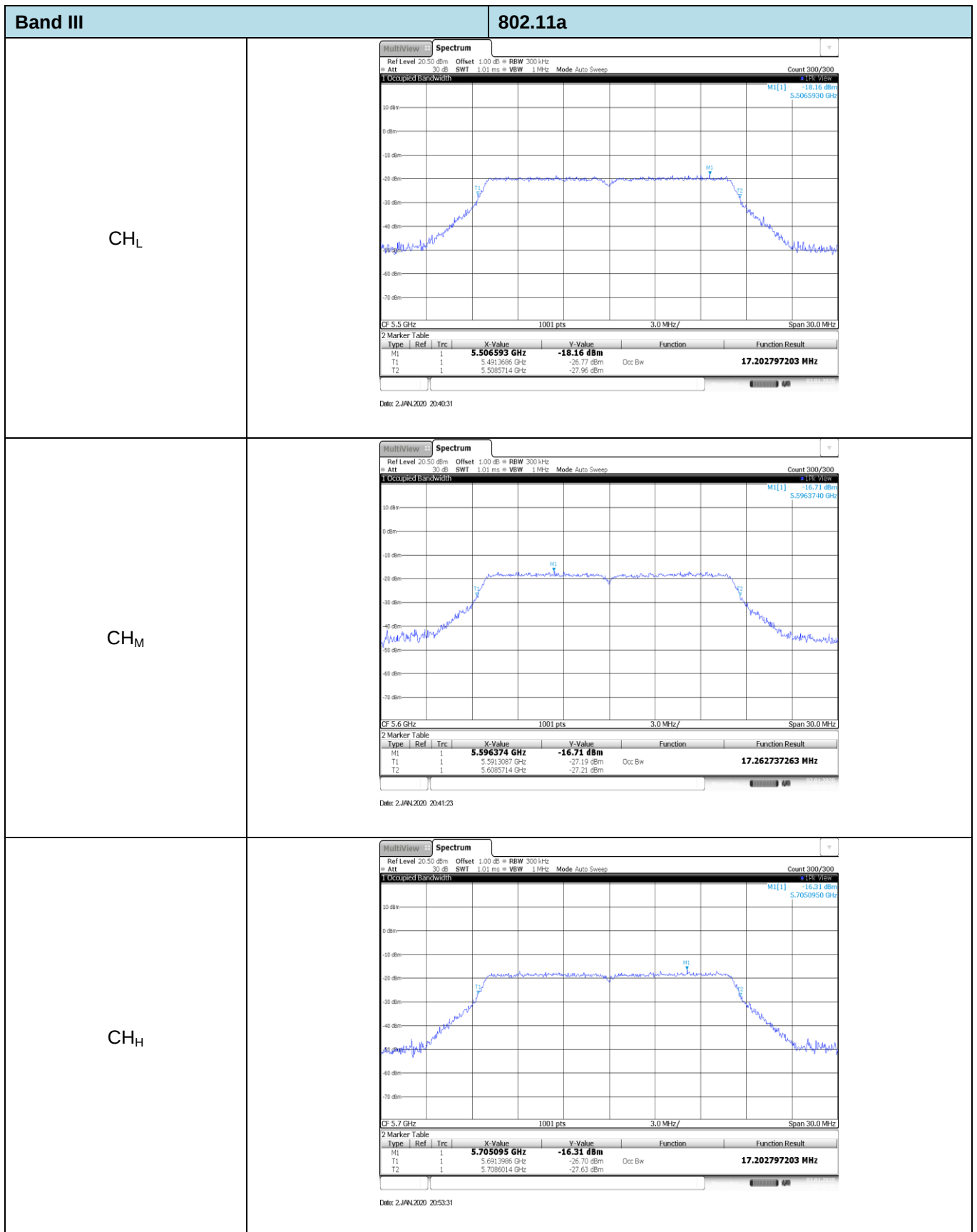


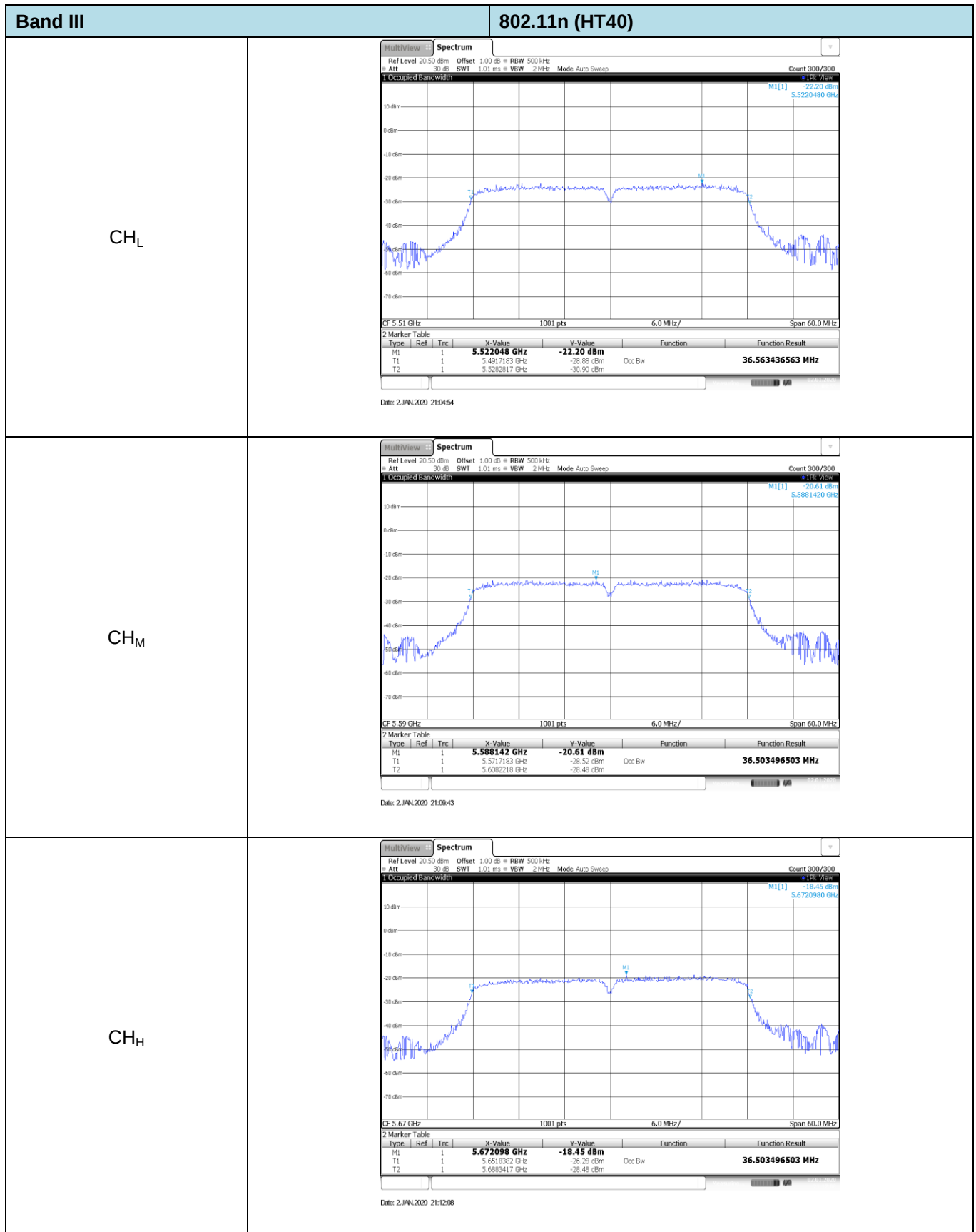












**Appendix E: Frequency stability****Voltage VS Frequency stability**

| Band: I          |                |                          | Test Frequency: 5180.00MHz |        |
|------------------|----------------|--------------------------|----------------------------|--------|
| Temperature (°C) | Voltage (V)    | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| 25               | V <sub>L</sub> | -26000.00                | -5.01931                   | PASS   |
| 25               | V <sub>N</sub> | -26000.00                | -5.01931                   | PASS   |
| 25               | V <sub>H</sub> | -26000.00                | -5.01931                   | PASS   |

| Band: II         |                |                          | Test Frequency: 5260.00MHz |        |
|------------------|----------------|--------------------------|----------------------------|--------|
| Temperature (°C) | Voltage (V)    | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| 25               | V <sub>L</sub> | -25000.00                | -4.75285                   | PASS   |
| 25               | V <sub>N</sub> | -26000.00                | -4.94297                   | PASS   |
| 25               | V <sub>H</sub> | -25000.00                | -4.75285                   | PASS   |

| Band: III        |                |                          | Test Frequency: 5500.00MHz |        |
|------------------|----------------|--------------------------|----------------------------|--------|
| Temperature (°C) | Voltage (V)    | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| 25               | V <sub>L</sub> | -27000.00                | -4.90909                   | PASS   |
| 25               | V <sub>N</sub> | -27000.00                | -4.90909                   | PASS   |
| 25               | V <sub>H</sub> | -27000.00                | -4.90909                   | PASS   |

**Temperature VS Frequency stability**

| Band: I        |                  |                          | Test Frequency: 5180.00MHz |        |
|----------------|------------------|--------------------------|----------------------------|--------|
| Voltage (V)    | Temperature (°C) | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| V <sub>N</sub> | -20              | -24000.00                | -4.63321                   | PASS   |
| V <sub>N</sub> | -10              | -24000.00                | -4.63321                   | PASS   |
| V <sub>N</sub> | 0                | -24000.00                | -4.63321                   | PASS   |
| V <sub>N</sub> | 10               | -23000.00                | -4.44015                   | PASS   |
| V <sub>N</sub> | 20               | -23000.00                | -4.44015                   | PASS   |
| V <sub>N</sub> | 30               | -22000.00                | -4.24710                   | PASS   |
| V <sub>N</sub> | 40               | -22000.00                | -4.24710                   | PASS   |
| V <sub>N</sub> | 50               | -22000.00                | -4.24710                   | PASS   |

| Band: II       |                  |                          | Test Frequency: 5260.00MHz |        |
|----------------|------------------|--------------------------|----------------------------|--------|
| Voltage (V)    | Temperature (°C) | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| V <sub>N</sub> | -20              | -24000.00                | -4.56274                   | PASS   |
| V <sub>N</sub> | -10              | -24000.00                | -4.56274                   | PASS   |
| V <sub>N</sub> | 0                | -24000.00                | -4.56274                   | PASS   |
| V <sub>N</sub> | 10               | -23000.00                | -4.37262                   | PASS   |
| V <sub>N</sub> | 20               | -23000.00                | -4.37262                   | PASS   |
| V <sub>N</sub> | 30               | -23000.00                | -4.37262                   | PASS   |
| V <sub>N</sub> | 40               | -23000.00                | -4.37262                   | PASS   |
| V <sub>N</sub> | 50               | -23000.00                | -4.37262                   | PASS   |

| Band: III      |                  |                          | Test Frequency: 5500.00MHz |        |
|----------------|------------------|--------------------------|----------------------------|--------|
| Voltage (V)    | Temperature (°C) | Frequency Deviation (Hz) | Frequency Deviation (ppm)  | Result |
| V <sub>N</sub> | -20              | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | -10              | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 0                | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 10               | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 20               | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 30               | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 40               | -27000.00                | -4.90909                   | PASS   |
| V <sub>N</sub> | 50               | -27000.00                | -4.90909                   | PASS   |

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