



## 4.5. POWER SPECTRAL DENSITY

### 4.5.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 E Section 15.407 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Method:</b>      | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Limit:</b>            | ≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>2. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.</li> <li>3. Allow the sweeps to continue until the trace stabilizes.</li> <li>4. Use the peak marker function to determine the maximum amplitude level.</li> <li>5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### 4.5.2. Test Instruments

| RF Test Room              |              |          |               |                  |                 |
|---------------------------|--------------|----------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model    | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A   | HKE-048       | Feb. 18, 2022    | Feb. 17, 2023   |
| RF cable                  | Times        | 1-40G    | HKE-034       | Feb. 18, 2022    | Feb. 17, 2023   |
| RF automatic control unit | Tonscend     | JS0806-2 | HKE-060       | Feb. 18, 2022    | Feb. 17, 2023   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4.5.3. Test data

## ANT 1

| Configuration Band IV (5725 - 5850 MHz ) |              |                    |                |                        |                    |        |
|------------------------------------------|--------------|--------------------|----------------|------------------------|--------------------|--------|
| Mode                                     | Test channel | Level [dBm/510kHz] | 10log(500/510) | Power Spectral Density | Limit (dBm/500kHz) | Result |
| 11a                                      | CH149        | 0.75               | -0.086         | 0.664                  | 30                 | PASS   |
| 11a                                      | CH157        | 0.15               | -0.086         | 0.064                  | 30                 | PASS   |
| 11a                                      | CH165        | -0.43              | -0.086         | -0.516                 | 30                 | PASS   |
| 11n HT20                                 | CH149        | 0.96               | -0.086         | 0.874                  | 30                 | PASS   |
| 11n HT20                                 | CH157        | -0.1               | -0.086         | -0.186                 | 30                 | PASS   |
| 11n HT20                                 | CH165        | -0.2               | -0.086         | -0.286                 | 30                 | PASS   |
| 11n HT40                                 | CH151        | -2.52              | -0.086         | -2.606                 | 30                 | PASS   |
| 11n HT40                                 | CH159        | -3.01              | -0.086         | -3.096                 | 30                 | PASS   |
| 11ac HT20                                | CH149        | 1.36               | -0.086         | 1.274                  | 30                 | PASS   |
| 11ac HT20                                | CH157        | -0.13              | -0.086         | -0.216                 | 30                 | PASS   |
| 11ac HT20                                | CH165        | -0.23              | -0.086         | -0.316                 | 30                 | PASS   |
| 11ac HT40                                | CH151        | -1.79              | -0.086         | -1.876                 | 30                 | PASS   |
| 11ac HT40                                | CH159        | -3.55              | -0.086         | -3.636                 | 30                 | PASS   |
| 11ac HT80                                | CH155        | -5.68              | -0.086         | -5.766                 | 30                 | PASS   |
| 11ax HT20                                | CH149        | 2.38               | -0.086         | 2.294                  | 30                 | PASS   |
| 11ax HT20                                | CH157        | 1.69               | -0.086         | 1.604                  | 30                 | PASS   |
| 11ax HT20                                | CH165        | 1.1                | -0.086         | 1.014                  | 30                 | PASS   |
| 11ax HT40                                | CH151        | -0.78              | -0.086         | -0.866                 | 30                 | PASS   |
| 11ax HT40                                | CH159        | -2.07              | -0.086         | -2.156                 | 30                 | PASS   |
| 11ax HT80                                | CH155        | -3.79              | -0.086         | -3.876                 | 30                 | PASS   |

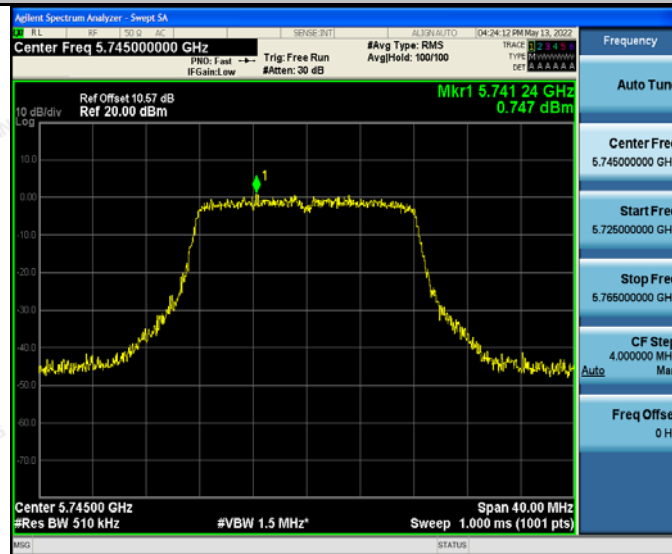
Note: Power Spectral Density= Level [dBm/510kHz]+ (10log(Limit RBW/Test RBW))

Test plots as follows:

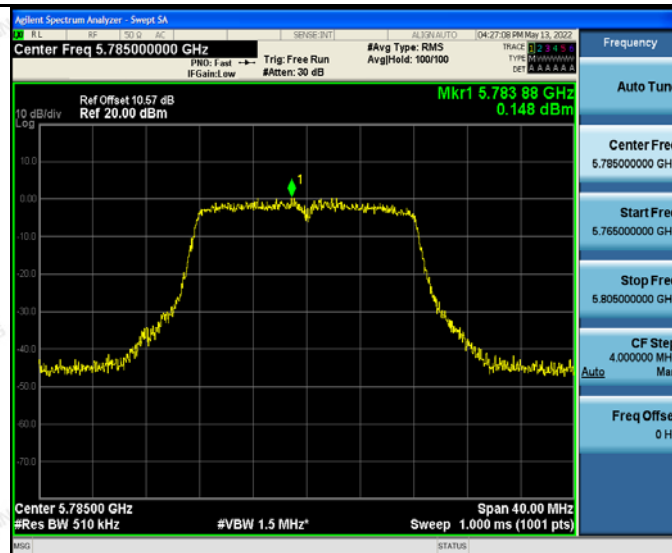


## Band IV (5725-5850 MHz)

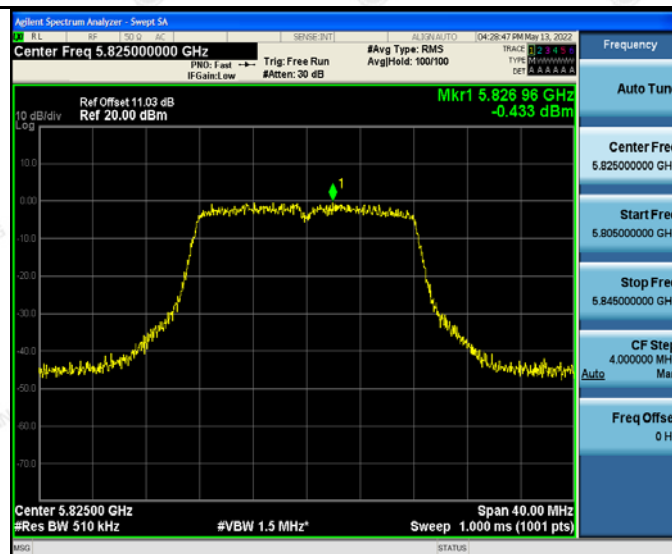
802.11a



Low



Mid



High

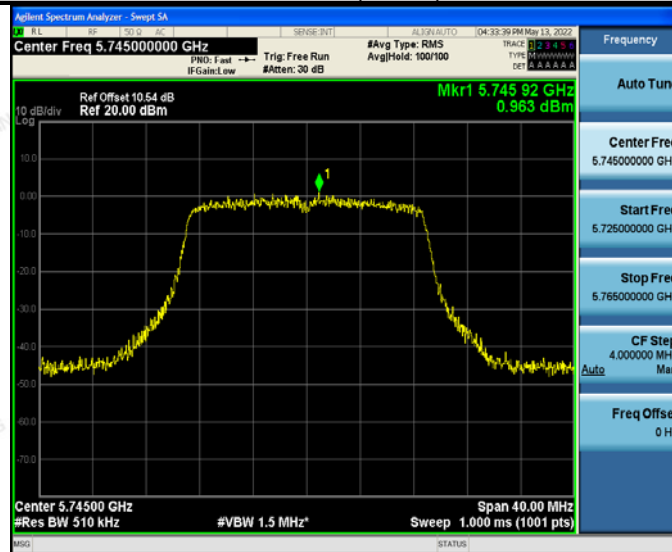
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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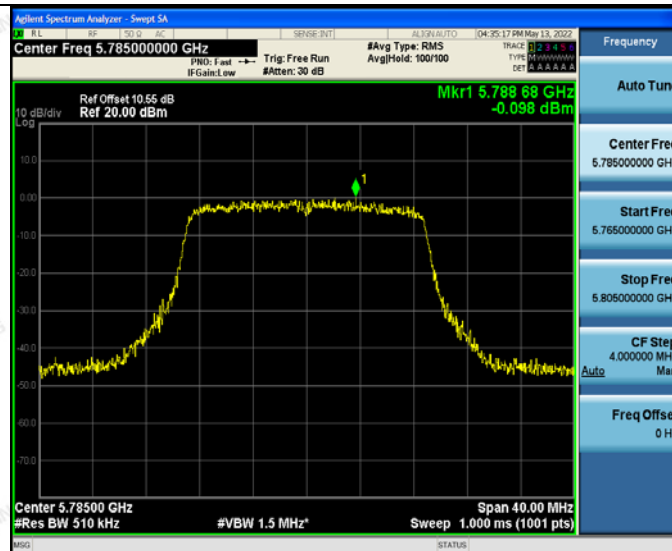
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



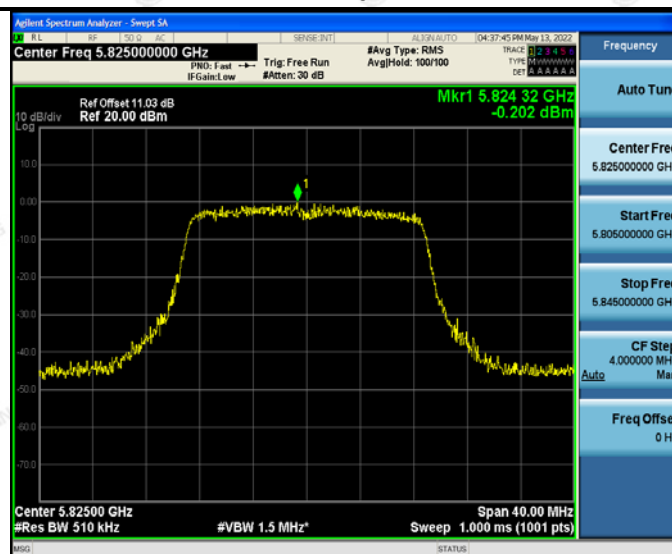
## 802.11n(HT20)



Low



Mid



High

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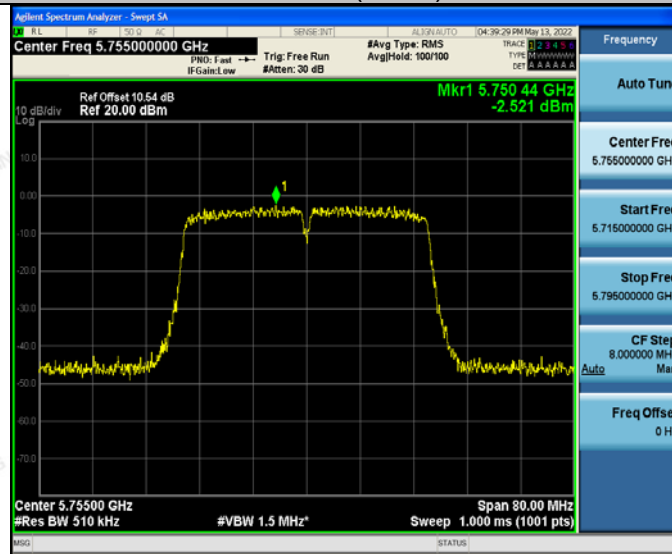
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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

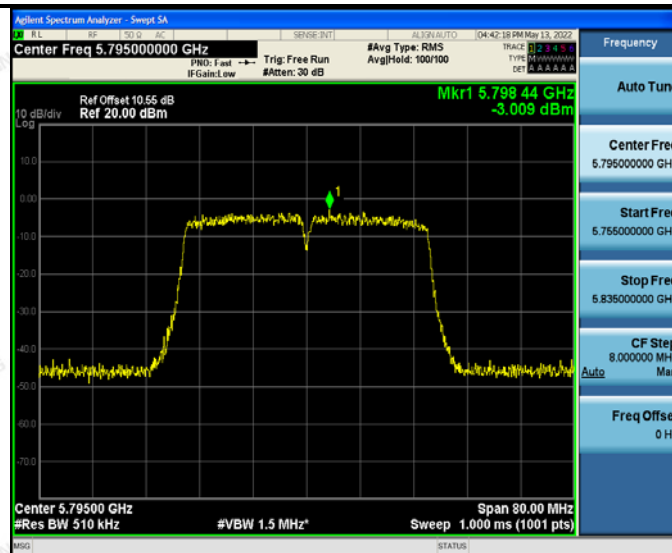




## 802.11n(HT40)

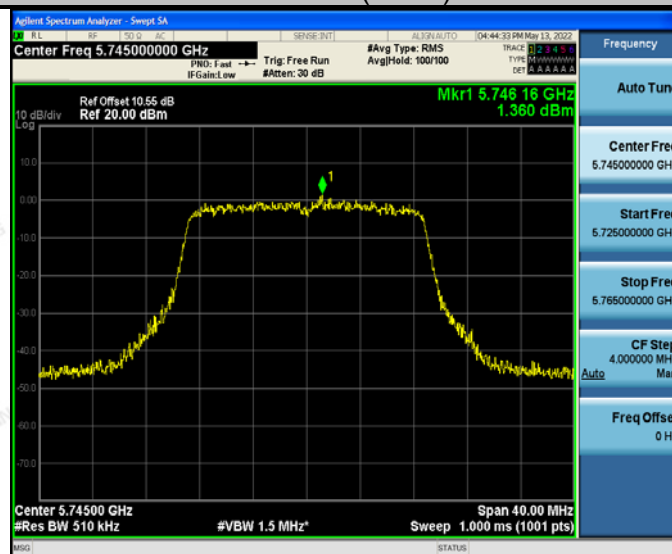


Low



High

## 802.11ac(HT20)



Low

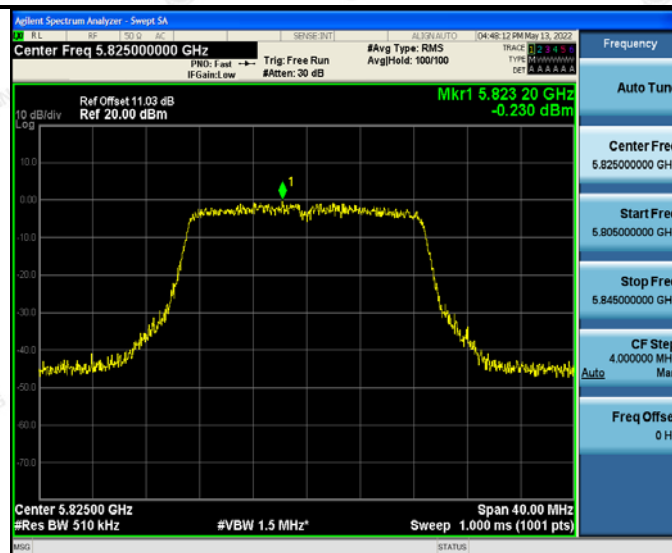
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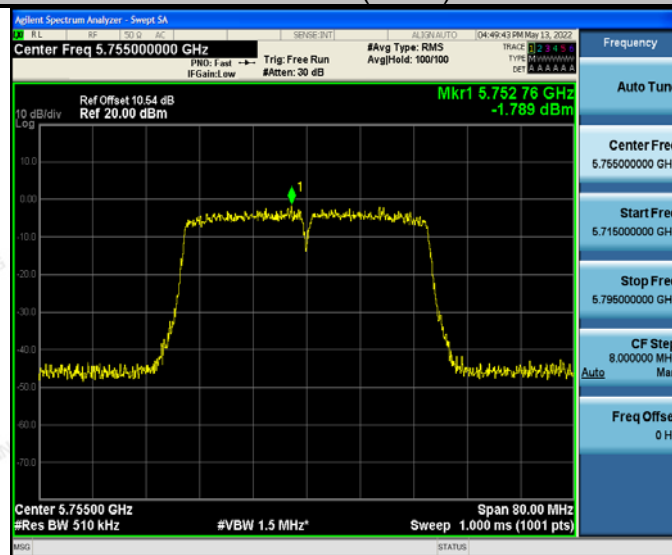


Mid



High

802.11ac(HT40)

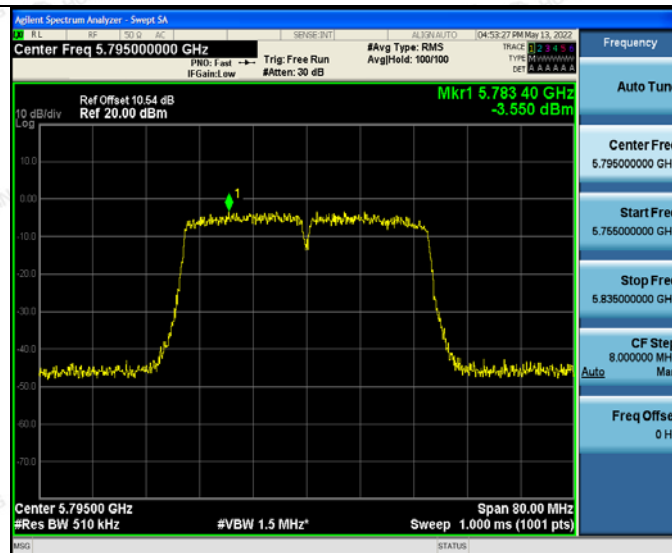


Low

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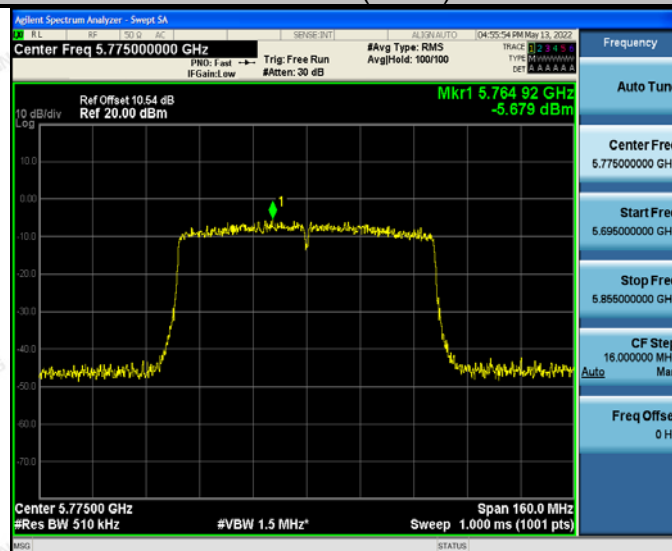
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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

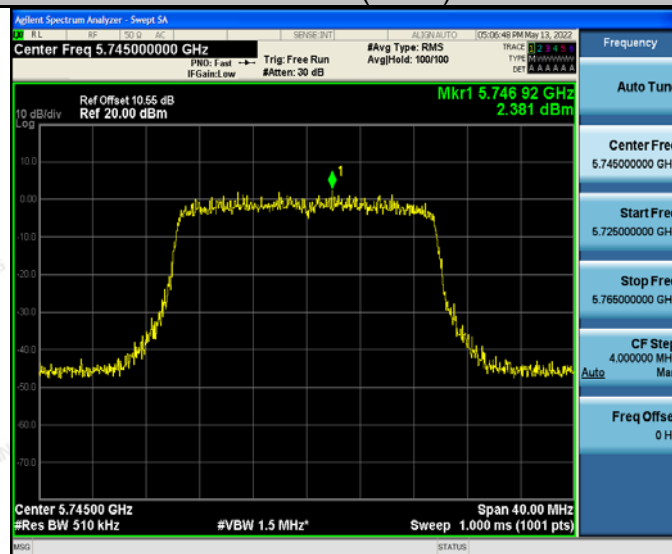


High

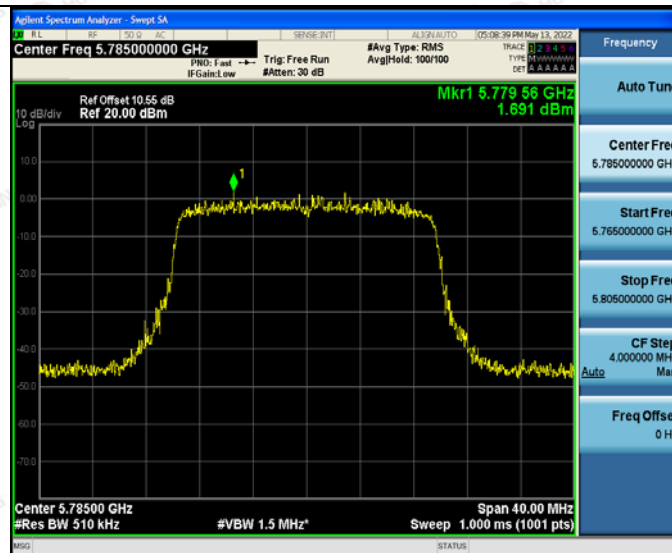
802.11ac(HT80)



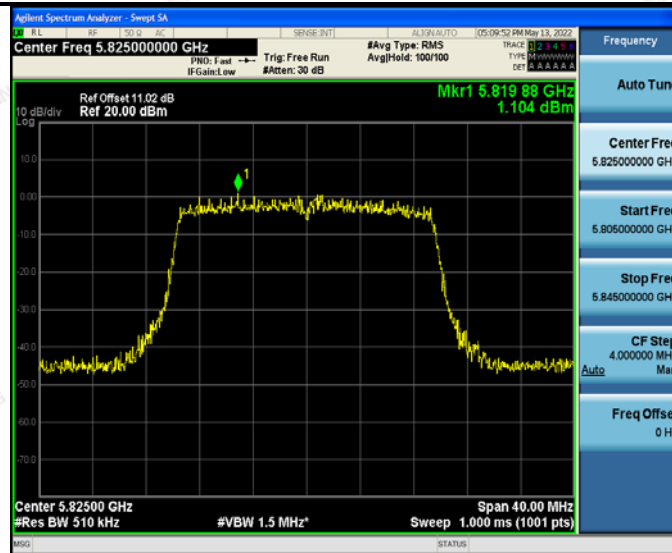
802.11ax(HT20)



Low

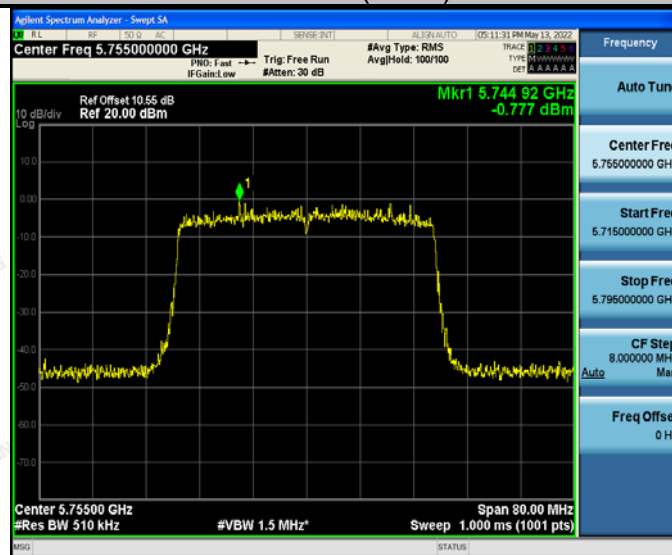


Mid



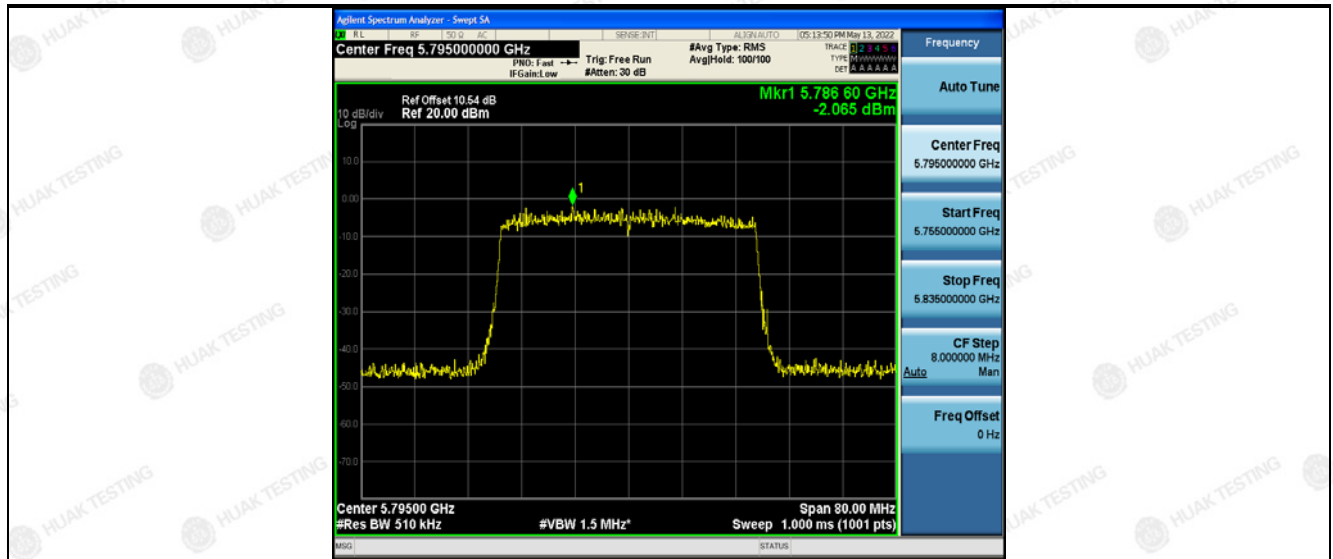
High

802.11ax(HT40)



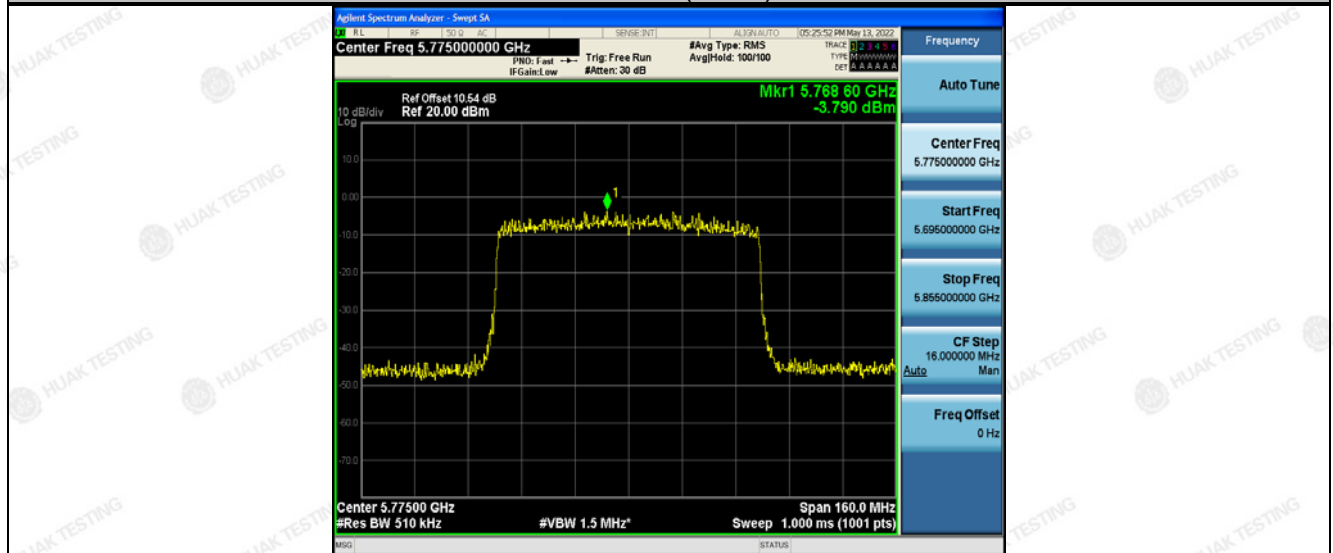
Low





High

802.11ax(HT80)





## ANT 2

| Configuration Band IV (5725 - 5850 MHz ) |              |                    |                   |                        |                    |        |
|------------------------------------------|--------------|--------------------|-------------------|------------------------|--------------------|--------|
| Mode                                     | Test channel | Level [dBm/510kHz] | $10\log(500/510)$ | Power Spectral Density | Limit (dBm/500kHz) | Result |
| 11a                                      | CH149        | 1.47               | -0.086            | 1.384                  | 30                 | PASS   |
| 11a                                      | CH157        | 0.72               | -0.086            | 0.634                  | 30                 | PASS   |
| 11a                                      | CH161        | 0.57               | -0.086            | 0.484                  | 30                 | PASS   |
| 11n(HT20)                                | CH149        | -1.31              | -0.086            | -1.396                 | 30                 | PASS   |
| 11n(HT20)                                | CH157        | -1.71              | -0.086            | -1.796                 | 30                 | PASS   |
| 11n(HT20)                                | CH161        | -0.97              | -0.086            | -1.056                 | 30                 | PASS   |
| 11n(HT40)                                | CH151        | -0.74              | -0.086            | -0.826                 | 30                 | PASS   |
| 11n(HT40)                                | CH159        | -1.05              | -0.086            | -1.136                 | 30                 | PASS   |
| 11ac(HT20)                               | CH149        | 3.19               | -0.086            | 3.104                  | 30                 | PASS   |
| 11ac(HT20)                               | CH157        | 1.82               | -0.086            | 1.734                  | 30                 | PASS   |
| 11ac(HT20)                               | CH161        | 1.39               | -0.086            | 1.304                  | 30                 | PASS   |
| 11ac(HT40)                               | CH151        | -0.35              | -0.086            | -0.436                 | 30                 | PASS   |
| 11ac(HT40)                               | CH159        | -1.71              | -0.086            | -1.796                 | 30                 | PASS   |
| 11ac(HT80)                               | CH155        | -3.98              | -0.086            | -4.066                 | 30                 | PASS   |
| 11ax(HT20)                               | CH149        | 1.05               | -0.086            | 0.964                  | 30                 | PASS   |
| 11ax(HT20)                               | CH157        | -0.22              | -0.086            | -0.306                 | 30                 | PASS   |
| 11ax(HT20)                               | CH161        | -0.4               | -0.086            | -0.486                 | 30                 | PASS   |
| 11ax(HT40)                               | CH151        | -2.57              | -0.086            | -2.656                 | 30                 | PASS   |
| 11ax(HT40)                               | CH159        | -3.76              | -0.086            | -3.846                 | 30                 | PASS   |
| 11ax(HT80)                               | CH155        | -5.93              | -0.086            | -6.016                 | 30                 | PASS   |

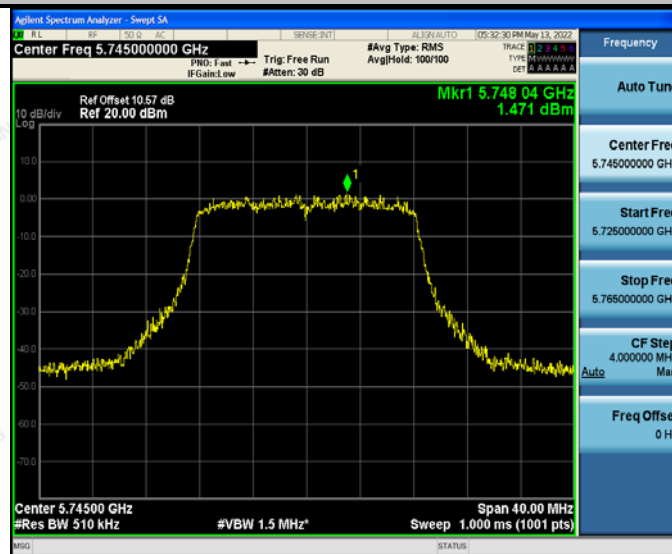
**Note:** Power Spectral Density= Level [dBm/510kHz]+ (10log(Limit RBW/Test RBW))

Test plots as follows:

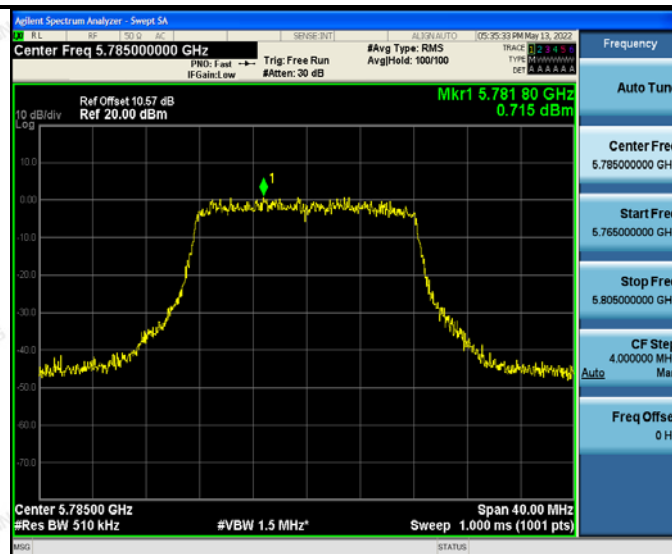


## Band IV (5725 – 5850 MHz)

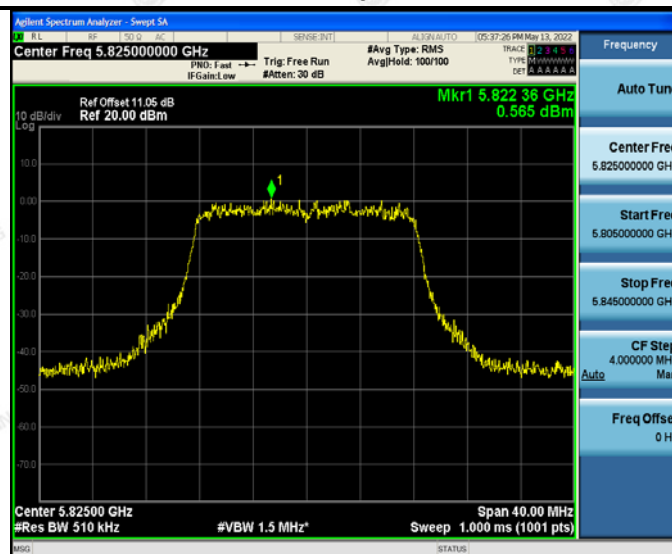
802.11a



Low



Mid

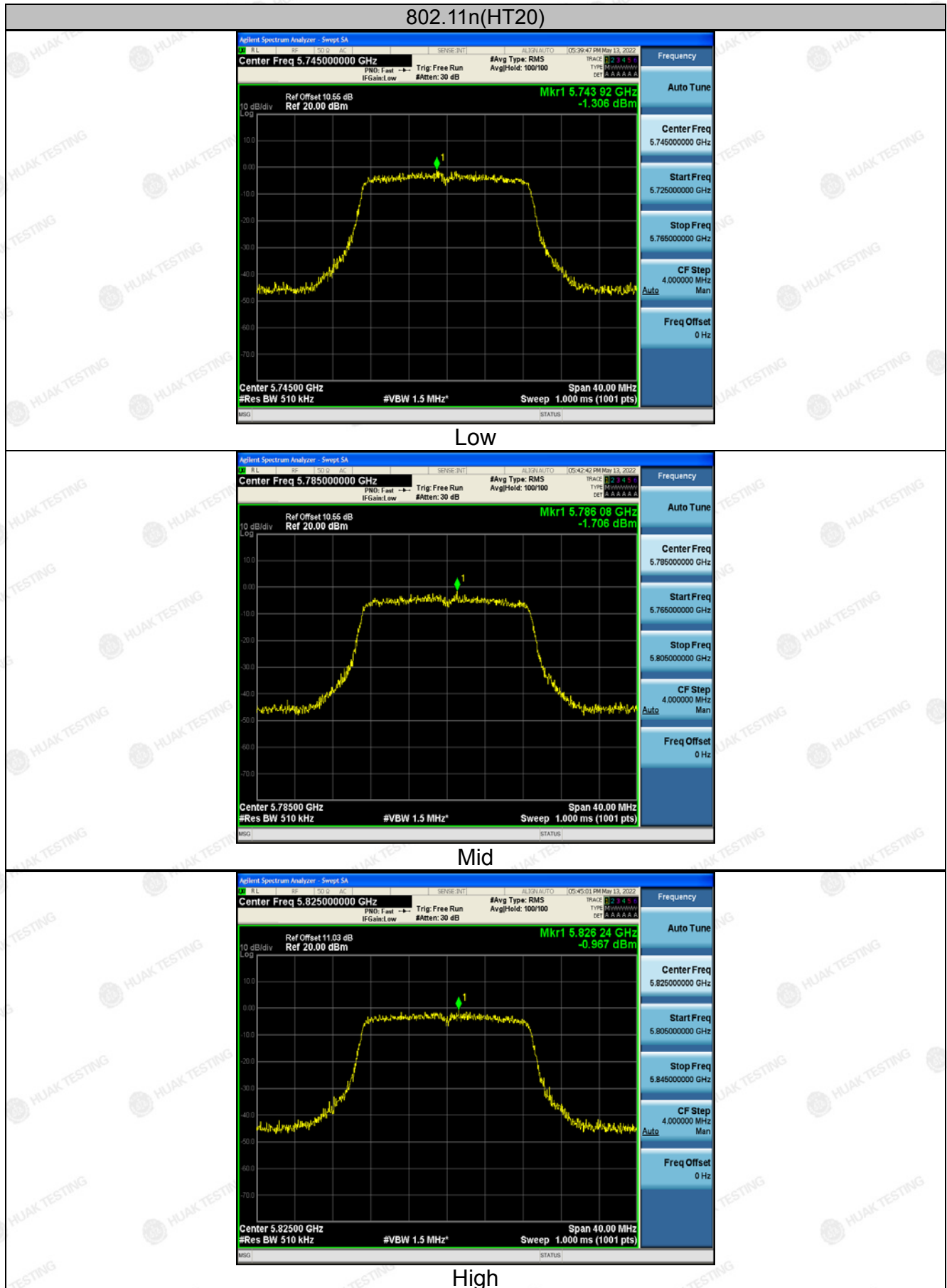


High

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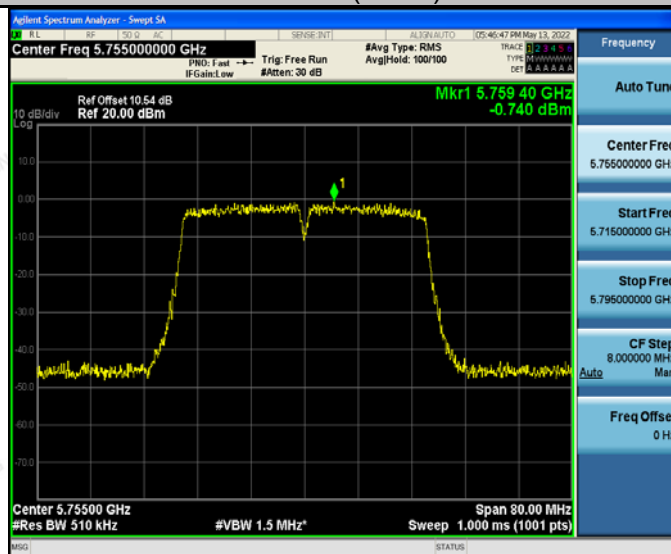
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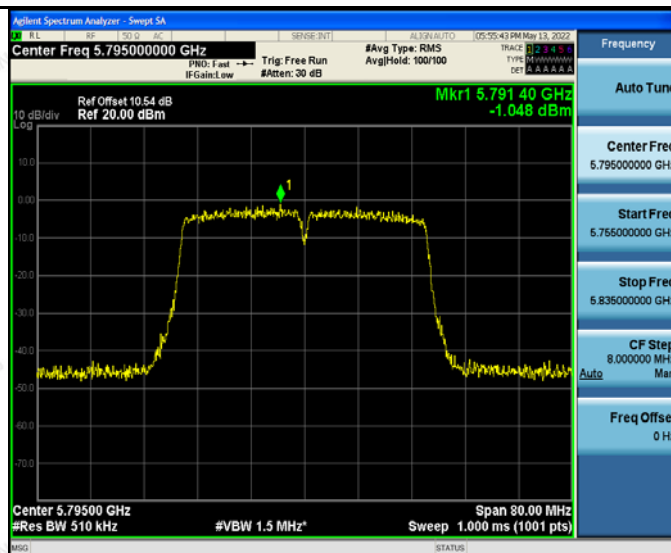




## 802.11n(HT40)

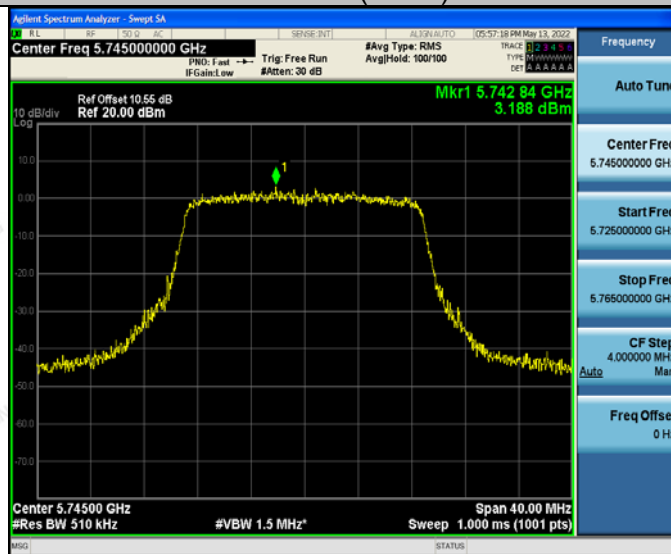


Low



High

## 802.11ac(HT20)

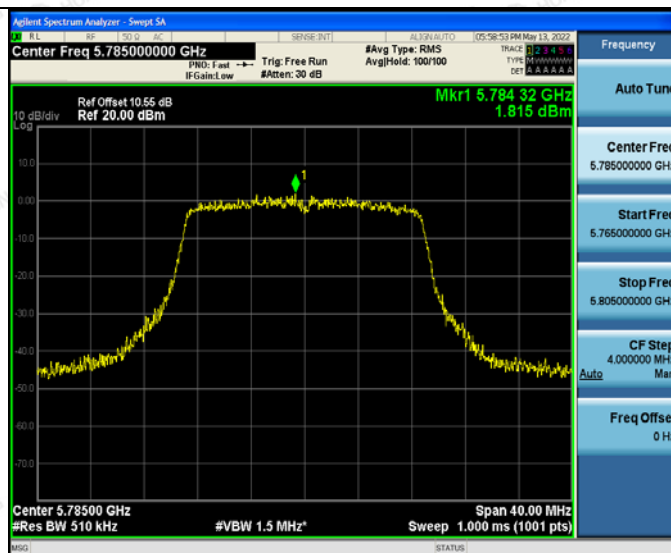


Low

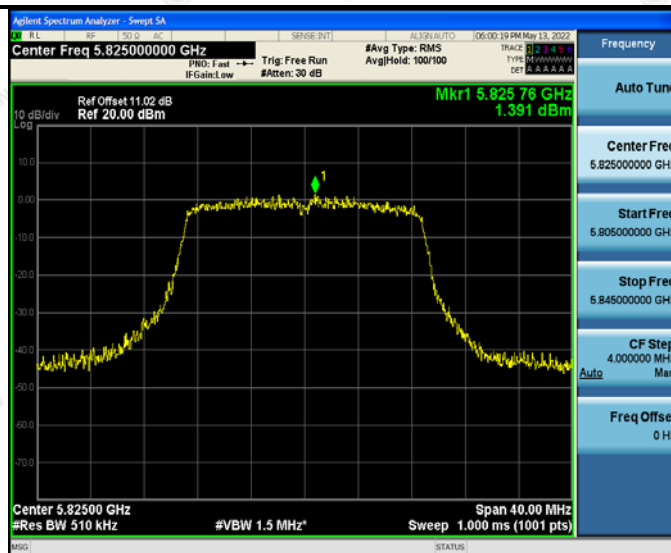
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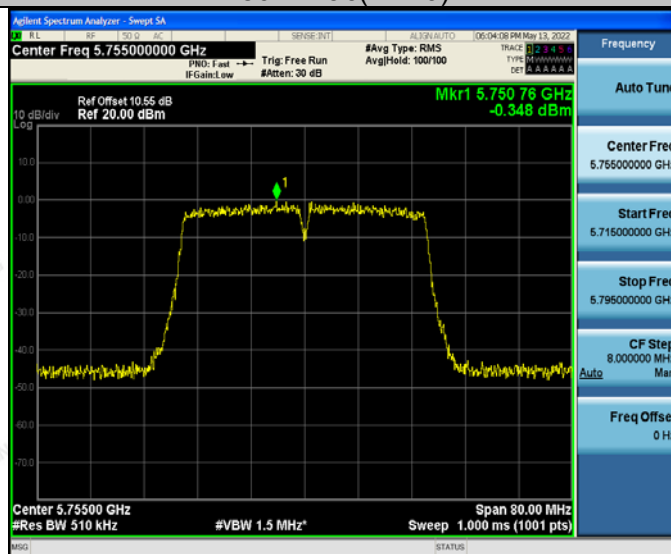


Mid

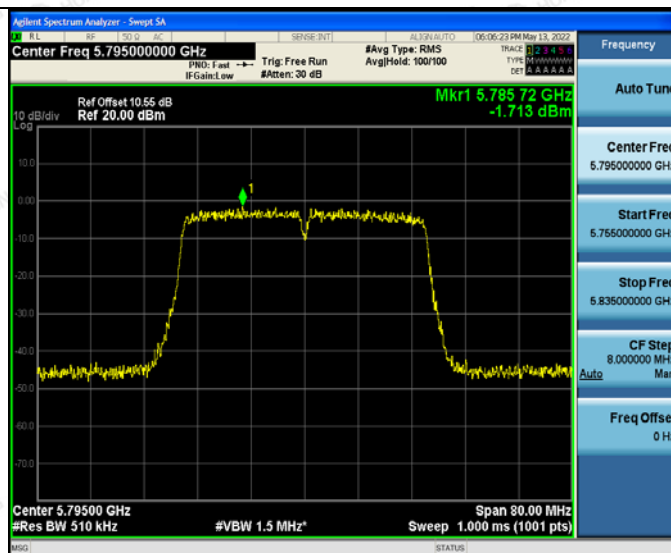


High

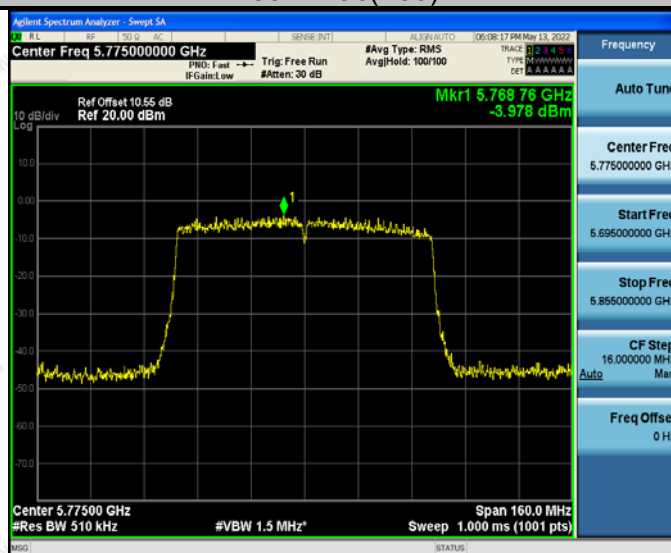
802.11ac(HT40)



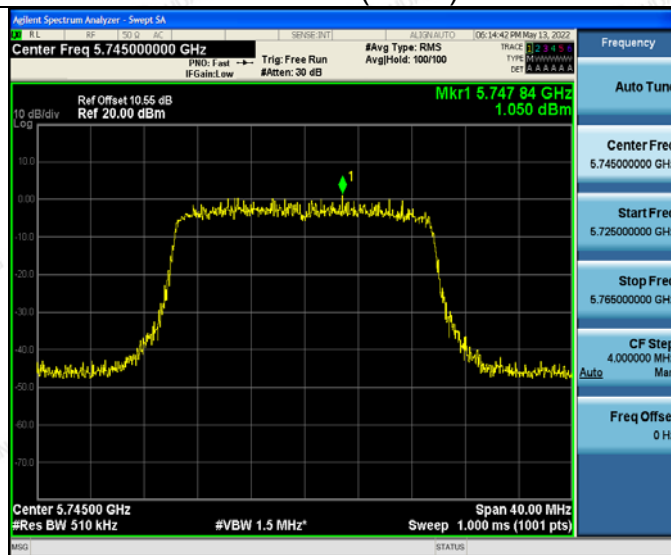
Low



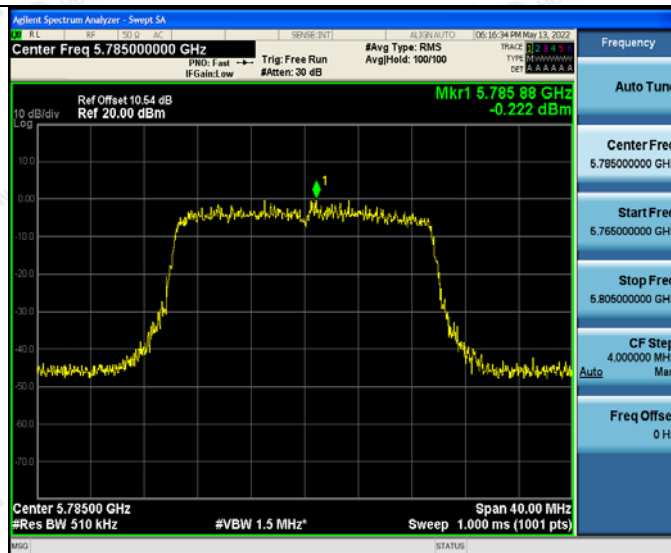
High  
802.11ac(T80)



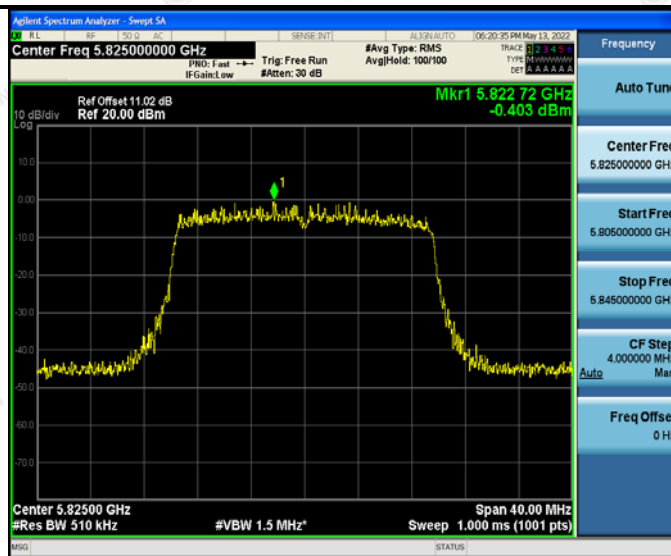
802.11ax(HT20)



Low

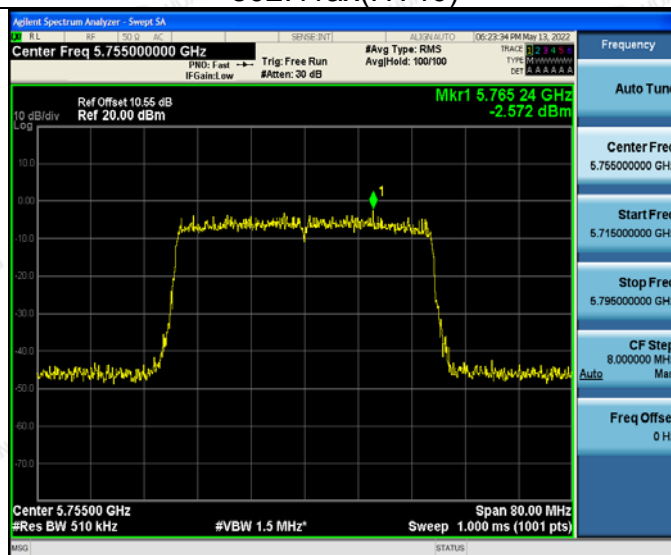


Mid



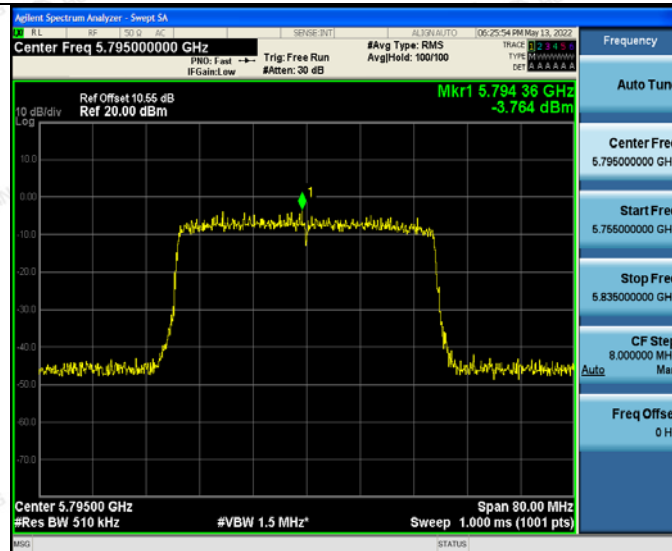
High

802.11ax(HT40)



Low





High  
802.11ax(T80)





## For MIMO antenna port 1+antenna port 2

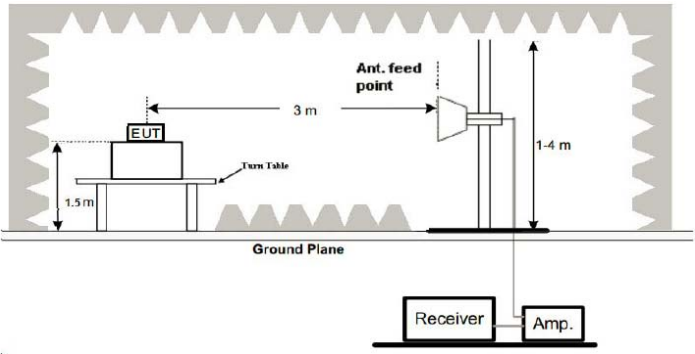
| Configuration Band IV (5725 - 5850 MHz )                                                                                                                                                                                  |              |                     |             |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-------------|--------|
| Mode                                                                                                                                                                                                                      | Test channel | Power Density (dBm) | Limit (dBm) | Result |
| 11n(HT20)                                                                                                                                                                                                                 | CH149        | 2.90                | 29.99       | PASS   |
| 11n(HT20)                                                                                                                                                                                                                 | CH157        | 2.09                | 29.99       | PASS   |
| 11n(HT20)                                                                                                                                                                                                                 | CH161        | 2.36                | 29.99       | PASS   |
| 11n(HT40)                                                                                                                                                                                                                 | CH151        | 1.38                | 29.99       | PASS   |
| 11n(HT40)                                                                                                                                                                                                                 | CH159        | 1.00                | 29.99       | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                | CH149        | 5.29                | 29.99       | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                | CH157        | 3.88                | 29.99       | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                | CH161        | 3.58                | 29.99       | PASS   |
| 11ac(HT40)                                                                                                                                                                                                                | CH151        | 1.91                | 29.99       | PASS   |
| 11ac(HT40)                                                                                                                                                                                                                | CH159        | 0.39                | 29.99       | PASS   |
| 11ac(HT80)                                                                                                                                                                                                                | CH155        | -1.82               | 29.99       | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                | CH149        | 4.69                | 29.99       | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                | CH157        | 3.76                | 29.99       | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                | CH161        | 3.34                | 29.99       | PASS   |
| 11ax(HT40)                                                                                                                                                                                                                | CH151        | 1.34                | 29.99       | PASS   |
| 11ax(HT40)                                                                                                                                                                                                                | CH159        | 0.09                | 29.99       | PASS   |
| 11ax(HT80)                                                                                                                                                                                                                | CH155        | -1.81               | 29.99       | PASS   |
| Note: 1 According to KDB 662911, Result power = $10\log(10^{(\text{ant1}/10)} + 10^{(\text{ant2}/10)})$ .<br>2 Result unit: W, The end result is converted to units of dBm.<br>limit=30dBm-(direction gain-6dBi)=29.99dBm |              |                     |             |        |

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac/ax for MIMO mode, not support 802.11 a for MIMO mode.



## 4.6. BAND EDGE

### 4.6.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC CFR47 Part 15E Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Method:</b>      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Limit:</b>            | (1) For transmitters operating in the 5.725-5.85 GHz band:<br>(i) All emissions shall be limited to a level of $-27$ dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.<br>The limit of frequency below 1GHz and which fall in restricted bands should comply 15.209.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Setup:</b>       |  <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table at a height of 1.5 m. The turn table is 3 m away from an antenna feed point. The antenna is mounted on a variable-height antenna tower, with the height adjustable from 1 m to 4 m. The antenna is connected to a receiver and an amplifier. The entire setup is on a ground plane.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol> |

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



|              |                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet. |
| Test Result: | PASS                                                                                                                                                                                                                                                                                                                                                   |





## 4.6.2. Test Instruments

## Radiated Emission Test Site (966)

| Name of Equipment       | Manufacturer | Model              | Serial Number | Calibration Date | Calibration Due |
|-------------------------|--------------|--------------------|---------------|------------------|-----------------|
| Receiver                | R&S          | ESRP3              | HKE-005       | Feb. 18, 2022    | Feb. 17, 2023   |
| Spectrum analyzer       | Agilent      | N9020A             | HKE-048       | Feb. 18, 2022    | Feb. 17, 2023   |
| Preamplifier            | EMCI         | EMC051845S<br>E    | HKE-015       | Feb. 18, 2022    | Feb. 17, 2023   |
| Preamplifier            | Agilent      | 83051A             | HKE-016       | Feb. 18, 2022    | Feb. 17, 2023   |
| Loop antenna            | Schwarzbeck  | FMZB 1519 B        | HKE-014       | Feb. 18, 2022    | Feb. 17, 2023   |
| Broadband antenna       | Schwarzbeck  | VULB 9163          | HKE-012       | Feb. 18, 2022    | Feb. 17, 2023   |
| Horn antenna            | Schwarzbeck  | 9120D              | HKE-013       | Feb. 18, 2022    | Feb. 17, 2023   |
| Antenna Mast            | Keleto       | CC-A-4M            | N/A           | N/A              | N/A             |
| Position controller     | Taiwan MF    | MF7802             | HKE-011       | Feb. 18, 2022    | Feb. 17, 2023   |
| Radiated test software  | Tonscend     | TS+ Rev<br>2.5.0.0 | HKE-082       | N/A              | N/A             |
| RF cable<br>(9KHz-1GHz) | Times        | 381806-001         | N/A           | N/A              | N/A             |
| Hf antenna              | Schwarzbeck  | LB-180400-KF       | HKE-031       | Feb. 18, 2022    | Feb. 17, 2023   |
| RF cable                | Tonscend     | 1-18G              | HKE-099       | Feb. 18, 2022    | Feb. 17, 2023   |
| RF cable                | Times        | 1-40G              | HKE-034       | Feb. 18, 2022    | Feb. 17, 2023   |
| Horn Antenna            | Schwarzbeck  | BBHA 9170          | HKE-017       | Feb. 18, 2022    | Feb. 17, 2023   |
| Spectrum analyzer       | R&S          | FSP40              | HKE-025       | Feb. 18, 2022    | Feb. 17, 2023   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4.6.3. Test Data

## ANT 1

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.88         | -2.06  | 54.82          | 68.2     | -13.38 | peak          |
| 5700                                                          | 87.31         | -1.96  | 85.35          | 105.2    | -19.85 | peak          |
| 5720                                                          | 91.77         | -2.87  | 88.9           | 110.8    | -21.9  | peak          |
| 5725                                                          | 109.27        | -2.14  | 107.13         | 122.2    | -15.07 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.69         | -2.06  | 54.63          | 68.2     | -13.57 | peak          |
| 5700                                                          | 87.04         | -1.96  | 85.08          | 105.2    | -20.12 | peak          |
| 5720                                                          | 94.46         | -2.87  | 91.59          | 110.8    | -19.21 | peak          |
| 5725                                                          | 109.34        | -2.14  | 107.2          | 122.2    | -15    | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.04        | -1.97  | 108.07         | 122.2    | -14.13 | peak          |
| 5855                                                          | 90.98         | -2.13  | 88.85          | 110.8    | -21.95 | peak          |
| 5875                                                          | 86.16         | -2.65  | 83.51          | 105.2    | -21.69 | peak          |
| 5925                                                          | 50.38         | -2.28  | 48.1           | 68.2     | -20.1  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 102.15        | -1.97  | 100.18         | 122.2    | -22.02 | peak          |
| 5855                                                          | 93.55         | -2.13  | 91.42          | 110.8    | -19.38 | peak          |
| 5875                                                          | 84.97         | -2.65  | 82.32          | 105.2    | -22.88 | peak          |
| 5925                                                          | 51.81         | -2.28  | 49.53          | 68.2     | -18.67 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 54.6          | -2.06  | 52.54          | 68.2     | -15.66 | peak          |
| 5700                                                          | 88.71         | -1.96  | 86.75          | 105.2    | -18.45 | peak          |
| 5720                                                          | 94.52         | -2.87  | 91.65          | 110.8    | -19.15 | peak          |
| 5725                                                          | 112.89        | -2.14  | 110.75         | 122.2    | -11.45 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.83         | -2.06  | 54.77          | 68.2     | -13.43 | peak          |
| 5700                                                          | 93.35         | -1.96  | 91.39          | 105.2    | -13.81 | peak          |
| 5720                                                          | 96.89         | -2.87  | 94.02          | 110.8    | -16.78 | peak          |
| 5725                                                          | 110.34        | -2.14  | 108.2          | 122.2    | -14    | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.38        | -1.97  | 105.41         | 122.2    | -16.79 | peak          |
| 5855                                                          | 93.37         | -2.13  | 91.24          | 110.8    | -19.56 | peak          |
| 5875                                                          | 91.14         | -2.65  | 88.49          | 105.2    | -16.71 | peak          |
| 5925                                                          | 50.52         | -2.28  | 48.24          | 68.2     | -19.96 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.2         | -1.97  | 104.23         | 122.2    | -17.97 | peak          |
| 5855                                                          | 92.9          | -2.13  | 90.77          | 110.8    | -20.03 | peak          |
| 5875                                                          | 86.94         | -2.65  | 84.29          | 105.2    | -20.91 | peak          |
| 5925                                                          | 54.79         | -2.28  | 52.51          | 68.2     | -15.69 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.84         | -2.06  | 54.78          | 68.2     | -13.42 | peak          |
| 5700                                                          | 91.44         | -1.96  | 89.48          | 105.2    | -15.72 | peak          |
| 5720                                                          | 93.07         | -2.87  | 90.2           | 110.8    | -20.6  | peak          |
| 5725                                                          | 109.93        | -2.14  | 107.79         | 122.2    | -14.41 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 59.03         | -2.06  | 56.97          | 68.2     | -11.23 | peak          |
| 5700                                                          | 90.9          | -1.96  | 88.94          | 105.2    | -16.26 | peak          |
| 5720                                                          | 94.93         | -2.87  | 92.06          | 110.8    | -18.74 | peak          |
| 5725                                                          | 109.03        | -2.14  | 106.89         | 122.2    | -15.31 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 103.55        | -1.97  | 101.58         | 122.2    | -20.62 | peak          |
| 5855                                                          | 91.68         | -2.13  | 89.55          | 110.8    | -21.25 | peak          |
| 5875                                                          | 86.53         | -2.65  | 83.88          | 105.2    | -21.32 | peak          |
| 5925                                                          | 51.11         | -2.28  | 48.83          | 68.2     | -19.37 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.12        | -1.97  | 105.15         | 122.2    | -17.05 | peak          |
| 5855                                                          | 92.01         | -2.13  | 89.88          | 110.8    | -20.92 | peak          |
| 5875                                                          | 86.82         | -2.65  | 84.17          | 105.2    | -21.03 | peak          |
| 5925                                                          | 54.18         | -2.28  | 51.9           | 68.2     | -16.3  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 54.61         | -2.06  | 52.55          | 68.2     | -15.65 | peak          |
| 5700                                                          | 85.65         | -1.96  | 83.69          | 105.2    | -21.51 | peak          |
| 5720                                                          | 93.07         | -2.87  | 90.2           | 110.8    | -20.6  | peak          |
| 5725                                                          | 110.59        | -2.14  | 108.45         | 122.2    | -13.75 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 54.81         | -2.06  | 52.75          | 68.2     | -15.45 | peak          |
| 5700                                                          | 89.4          | -1.96  | 87.44          | 105.2    | -17.76 | peak          |
| 5720                                                          | 95.04         | -2.87  | 92.17          | 110.8    | -18.63 | peak          |
| 5725                                                          | 109.28        | -2.14  | 107.14         | 122.2    | -15.06 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.65        | -1.97  | 106.68         | 122.2    | -15.52 | peak          |
| 5855                                                          | 93.53         | -2.13  | 91.4           | 110.8    | -19.4  | peak          |
| 5875                                                          | 89.8          | -2.65  | 87.15          | 105.2    | -18.05 | peak          |
| 5925                                                          | 52.84         | -2.28  | 50.56          | 68.2     | -17.64 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.46        | -1.97  | 107.49         | 122.2    | -14.71 | peak          |
| 5855                                                          | 93.29         | -2.13  | 91.16          | 110.8    | -19.64 | peak          |
| 5875                                                          | 84.86         | -2.65  | 82.21          | 105.2    | -22.99 | peak          |
| 5925                                                          | 53.27         | -2.28  | 50.99          | 68.2     | -17.21 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.96         | -2.06  | 53.9           | 68.2     | -14.3  | peak          |
| 5700                                                          | 86.52         | -1.96  | 84.56          | 105.2    | -20.64 | peak          |
| 5720                                                          | 91.39         | -2.87  | 88.52          | 110.8    | -22.28 | peak          |
| 5725                                                          | 108.83        | -2.14  | 106.69         | 122.2    | -15.51 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.55         | -2.06  | 53.49          | 68.2     | -14.71 | peak          |
| 5700                                                          | 86.73         | -1.96  | 84.77          | 105.2    | -20.43 | peak          |
| 5720                                                          | 94.04         | -2.87  | 91.17          | 110.8    | -19.63 | peak          |
| 5725                                                          | 110.47        | -2.14  | 108.33         | 122.2    | -13.87 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 112.07        | -1.97  | 110.1          | 122.2    | -12.1  | peak          |
| 5855                                                          | 93.05         | -2.13  | 90.92          | 110.8    | -19.88 | peak          |
| 5875                                                          | 87.78         | -2.65  | 85.13          | 105.2    | -20.07 | peak          |
| 5925                                                          | 53.24         | -2.28  | 50.96          | 68.2     | -17.24 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.77        | -1.97  | 107.8          | 122.2    | -14.4  | peak          |
| 5855                                                          | 91.97         | -2.13  | 89.84          | 110.8    | -20.96 | peak          |
| 5875                                                          | 88.97         | -2.65  | 86.32          | 105.2    | -18.88 | peak          |
| 5925                                                          | 58.96         | -2.28  | 56.68          | 68.2     | -11.52 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.32         | -2.06  | 53.26          | 68.2     | -14.94 | peak          |
| 5700                                                          | 87.93         | -1.96  | 85.97          | 105.2    | -19.23 | peak          |
| 5720                                                          | 93.61         | -2.87  | 90.74          | 110.8    | -20.06 | peak          |
| 5725                                                          | 108.92        | -2.14  | 106.78         | 122.2    | -15.42 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.01         | -2.06  | 53.95          | 68.2     | -14.25 | peak          |
| 5700                                                          | 88.66         | -1.96  | 86.7           | 105.2    | -18.5  | peak          |
| 5720                                                          | 92.5          | -2.87  | 89.63          | 110.8    | -21.17 | peak          |
| 5725                                                          | 109.65        | -2.14  | 107.51         | 122.2    | -14.69 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.45        | -1.97  | 106.48         | 122.2    | -15.72 | peak          |
| 5855                                                          | 94.03         | -2.13  | 91.9           | 110.8    | -18.9  | peak          |
| 5875                                                          | 86.13         | -2.65  | 83.48          | 105.2    | -21.72 | peak          |
| 5925                                                          | 50.73         | -2.28  | 48.45          | 68.2     | -19.75 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.99        | -1.97  | 106.02         | 122.2    | -16.18 | peak          |
| 5855                                                          | 93.58         | -2.13  | 91.45          | 110.8    | -19.35 | peak          |
| 5875                                                          | 89.95         | -2.65  | 87.3           | 105.2    | -17.9  | peak          |
| 5925                                                          | 54.96         | -2.28  | 52.68          | 68.2     | -15.52 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.19         | -2.06  | 53.13          | 68.2     | -15.07 | peak          |
| 5700                                                          | 89.01         | -1.96  | 87.05          | 105.2    | -18.15 | peak          |
| 5720                                                          | 94.37         | -2.87  | 91.5           | 110.8    | -19.3  | peak          |
| 5725                                                          | 109.26        | -2.14  | 107.12         | 122.2    | -15.08 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.82         | -2.06  | 54.76          | 68.2     | -13.44 | peak          |
| 5700                                                          | 90.38         | -1.96  | 88.42          | 105.2    | -16.78 | peak          |
| 5720                                                          | 93.66         | -2.87  | 90.79          | 110.8    | -20.01 | peak          |
| 5725                                                          | 109.67        | -2.14  | 107.53         | 122.2    | -14.67 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.87        | -1.97  | 104.9          | 122.2    | -17.3  | peak          |
| 5855                                                          | 93.77         | -2.13  | 91.64          | 110.8    | -19.16 | peak          |
| 5875                                                          | 85.91         | -2.65  | 83.26          | 105.2    | -21.94 | peak          |
| 5925                                                          | 54.63         | -2.28  | 52.35          | 68.2     | -15.85 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.75        | -1.97  | 105.78         | 122.2    | -16.42 | peak          |
| 5855                                                          | 92.01         | -2.13  | 89.88          | 110.8    | -20.92 | peak          |
| 5875                                                          | 88.81         | -2.65  | 86.16          | 105.2    | -19.04 | peak          |
| 5925                                                          | 54.19         | -2.28  | 51.91          | 68.2     | -16.29 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.83         | -2.06  | 55.77          | 68.2     | -12.43 | peak          |
| 5700                                                          | 85.78         | -1.96  | 83.82          | 105.2    | -21.38 | peak          |
| 5720                                                          | 95.76         | -2.87  | 92.89          | 110.8    | -17.91 | peak          |
| 5725                                                          | 107.54        | -2.14  | 105.4          | 122.2    | -16.8  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.24         | -2.06  | 53.18          | 68.2     | -15.02 | peak          |
| 5700                                                          | 87.63         | -1.96  | 85.67          | 105.2    | -19.53 | peak          |
| 5720                                                          | 90.88         | -2.87  | 88.01          | 110.8    | -22.79 | peak          |
| 5725                                                          | 109.04        | -2.14  | 106.9          | 122.2    | -15.3  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 111.33        | -1.97  | 109.36         | 122.2    | -12.84 | peak          |
| 5855                                                          | 94.78         | -2.13  | 92.65          | 110.8    | -18.15 | peak          |
| 5875                                                          | 87.88         | -2.65  | 85.23          | 105.2    | -19.97 | peak          |
| 5925                                                          | 53.62         | -2.28  | 51.34          | 68.2     | -16.86 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.06        | -1.97  | 107.09         | 122.2    | -15.11 | peak          |
| 5855                                                          | 94.19         | -2.13  | 92.06          | 110.8    | -18.74 | peak          |
| 5875                                                          | 88.69         | -2.65  | 86.04          | 105.2    | -19.16 | peak          |
| 5925                                                          | 60.45         | -2.28  | 58.17          | 68.2     | -10.03 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.06         | -2.06  | 55             | 68.2     | -13.2  | peak          |
| 5700                                                          | 87.87         | -1.96  | 85.91          | 105.2    | -19.29 | peak          |
| 5720                                                          | 92.73         | -2.87  | 89.86          | 110.8    | -20.94 | peak          |
| 5725                                                          | 108.59        | -2.14  | 106.45         | 122.2    | -15.75 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.87         | -2.06  | 53.81          | 68.2     | -14.39 | peak          |
| 5700                                                          | 91.61         | -1.96  | 89.65          | 105.2    | -15.55 | peak          |
| 5720                                                          | 90.36         | -2.87  | 87.49          | 110.8    | -23.31 | peak          |
| 5725                                                          | 110.79        | -2.14  | 108.65         | 122.2    | -13.55 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.67        | -1.97  | 107.7          | 122.2    | -14.5  | peak          |
| 5855                                                          | 94.8          | -2.13  | 92.67          | 110.8    | -18.13 | peak          |
| 5875                                                          | 86.58         | -2.65  | 83.93          | 105.2    | -21.27 | peak          |
| 5925                                                          | 51.74         | -2.28  | 49.46          | 68.2     | -18.74 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 111.13        | -1.97  | 109.16         | 122.2    | -13.04 | peak          |
| 5855                                                          | 92.42         | -2.13  | 90.29          | 110.8    | -20.51 | peak          |
| 5875                                                          | 89.66         | -2.65  | 87.01          | 105.2    | -18.19 | peak          |
| 5925                                                          | 56.37         | -2.28  | 54.09          | 68.2     | -14.11 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

**ANT 2**

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.87         | -2.06  | 53.81          | 68.2     | -14.39 | peak          |
| 5700                                                          | 89.29         | -1.96  | 87.33          | 105.2    | -17.87 | peak          |
| 5720                                                          | 92.67         | -2.87  | 89.8           | 110.8    | -21    | peak          |
| 5725                                                          | 108.74        | -2.14  | 106.6          | 122.2    | -15.6  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.36         | -2.06  | 53.3           | 68.2     | -14.9  | peak          |
| 5700                                                          | 88.77         | -1.96  | 86.81          | 105.2    | -18.39 | peak          |
| 5720                                                          | 93.33         | -2.87  | 90.46          | 110.8    | -20.34 | peak          |
| 5725                                                          | 108.89        | -2.14  | 106.75         | 122.2    | -15.45 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.78        | -1.97  | 104.81         | 122.2    | -17.39 | peak          |
| 5855                                                          | 94.36         | -2.13  | 92.23          | 110.8    | -18.57 | peak          |
| 5875                                                          | 86.25         | -2.65  | 83.6           | 105.2    | -21.6  | peak          |
| 5925                                                          | 54.45         | -2.28  | 52.17          | 68.2     | -16.03 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 105.87        | -1.97  | 103.9          | 122.2    | -18.3  | peak          |
| 5855                                                          | 90.99         | -2.13  | 88.86          | 110.8    | -21.94 | peak          |
| 5875                                                          | 85.4          | -2.65  | 82.75          | 105.2    | -22.45 | peak          |
| 5925                                                          | 53.03         | -2.28  | 50.75          | 68.2     | -17.45 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.85         | -2.06  | 53.79          | 68.2     | -14.41 | peak          |
| 5700                                                          | 89.02         | -1.96  | 87.06          | 105.2    | -18.14 | peak          |
| 5720                                                          | 94.8          | -2.87  | 91.93          | 110.8    | -18.87 | peak          |
| 5725                                                          | 109.44        | -2.14  | 107.3          | 122.2    | -14.9  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.74         | -2.06  | 55.68          | 68.2     | -12.52 | peak          |
| 5700                                                          | 89.91         | -1.96  | 87.95          | 105.2    | -17.25 | peak          |
| 5720                                                          | 92.38         | -2.87  | 89.51          | 110.8    | -21.29 | peak          |
| 5725                                                          | 107.75        | -2.14  | 105.61         | 122.2    | -16.59 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.26        | -1.97  | 106.29         | 122.2    | -15.91 | peak          |
| 5855                                                          | 90.31         | -2.13  | 88.18          | 110.8    | -22.62 | peak          |
| 5875                                                          | 86.92         | -2.65  | 84.27          | 105.2    | -20.93 | peak          |
| 5925                                                          | 50.95         | -2.28  | 48.67          | 68.2     | -19.53 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 104.09        | -1.97  | 102.12         | 122.2    | -20.08 | peak          |
| 5855                                                          | 92.88         | -2.13  | 90.75          | 110.8    | -20.05 | peak          |
| 5875                                                          | 85.27         | -2.65  | 82.62          | 105.2    | -22.58 | peak          |
| 5925                                                          | 56.29         | -2.28  | 54.01          | 68.2     | -14.19 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 50.54         | -2.06  | 48.48          | 68.2     | -19.72 | peak          |
| 5700                                                          | 90.02         | -1.96  | 88.06          | 105.2    | -17.14 | peak          |
| 5720                                                          | 92.29         | -2.87  | 89.42          | 110.8    | -21.38 | peak          |
| 5725                                                          | 106.75        | -2.14  | 104.61         | 122.2    | -17.59 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.73         | -2.06  | 53.67          | 68.2     | -14.53 | peak          |
| 5700                                                          | 91.98         | -1.96  | 90.02          | 105.2    | -15.18 | peak          |
| 5720                                                          | 93.19         | -2.87  | 90.32          | 110.8    | -20.48 | peak          |
| 5725                                                          | 108.26        | -2.14  | 106.12         | 122.2    | -16.08 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 105.77        | -1.97  | 103.8          | 122.2    | -18.4  | peak          |
| 5855                                                          | 91.99         | -2.13  | 89.86          | 110.8    | -20.94 | peak          |
| 5875                                                          | 88.39         | -2.65  | 85.74          | 105.2    | -19.46 | peak          |
| 5925                                                          | 52.53         | -2.28  | 50.25          | 68.2     | -17.95 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 105.18        | -1.97  | 103.21         | 122.2    | -18.99 | peak          |
| 5855                                                          | 92.63         | -2.13  | 90.5           | 110.8    | -20.3  | peak          |
| 5875                                                          | 86.43         | -2.65  | 83.78          | 105.2    | -21.42 | peak          |
| 5925                                                          | 50.59         | -2.28  | 48.31          | 68.2     | -19.89 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.63         | -2.06  | 56.57          | 68.2     | -11.63 | peak          |
| 5700                                                          | 87.8          | -1.96  | 85.84          | 105.2    | -19.36 | peak          |
| 5720                                                          | 94.37         | -2.87  | 91.5           | 110.8    | -19.3  | peak          |
| 5725                                                          | 109.92        | -2.14  | 107.78         | 122.2    | -14.42 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.06         | -2.06  | 56             | 68.2     | -12.2  | peak          |
| 5700                                                          | 88.44         | -1.96  | 86.48          | 105.2    | -18.72 | peak          |
| 5720                                                          | 94.6          | -2.87  | 91.73          | 110.8    | -19.07 | peak          |
| 5725                                                          | 109.53        | -2.14  | 107.39         | 122.2    | -14.81 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 111.76        | -1.97  | 109.79         | 122.2    | -12.41 | peak          |
| 5855                                                          | 92.49         | -2.13  | 90.36          | 110.8    | -20.44 | peak          |
| 5875                                                          | 88.64         | -2.65  | 85.99          | 105.2    | -19.21 | peak          |
| 5925                                                          | 51.88         | -2.28  | 49.6           | 68.2     | -18.6  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 104.56        | -1.97  | 102.59         | 122.2    | -19.61 | peak          |
| 5855                                                          | 95.63         | -2.13  | 93.5           | 110.8    | -17.3  | peak          |
| 5875                                                          | 88.4          | -2.65  | 85.75          | 105.2    | -19.45 | peak          |
| 5925                                                          | 54.18         | -2.28  | 51.9           | 68.2     | -16.3  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.21         | -2.06  | 53.15          | 68.2     | -15.05 | peak          |
| 5700                                                          | 85.36         | -1.96  | 83.4           | 105.2    | -21.8  | peak          |
| 5720                                                          | 96.01         | -2.87  | 93.14          | 110.8    | -17.66 | peak          |
| 5725                                                          | 104.99        | -2.14  | 102.85         | 122.2    | -19.35 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.32         | -2.06  | 53.26          | 68.2     | -14.94 | peak          |
| 5700                                                          | 95.09         | -1.96  | 93.13          | 105.2    | -12.07 | peak          |
| 5720                                                          | 93.4          | -2.87  | 90.53          | 110.8    | -20.27 | peak          |
| 5725                                                          | 109.71        | -2.14  | 107.57         | 122.2    | -14.63 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.68        | -1.97  | 105.71         | 122.2    | -16.49 | peak          |
| 5855                                                          | 91.53         | -2.13  | 89.4           | 110.8    | -21.4  | peak          |
| 5875                                                          | 85.98         | -2.65  | 83.33          | 105.2    | -21.87 | peak          |
| 5925                                                          | 52.37         | -2.28  | 50.09          | 68.2     | -18.11 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.83        | -1.97  | 108.86         | 122.2    | -13.34 | peak          |
| 5855                                                          | 91.83         | -2.13  | 89.7           | 110.8    | -21.1  | peak          |
| 5875                                                          | 85.22         | -2.65  | 82.57          | 105.2    | -22.63 | peak          |
| 5925                                                          | 56.42         | -2.28  | 54.14          | 68.2     | -14.06 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 52.32         | -2.06  | 50.26          | 68.2     | -17.94 | peak          |
| 5700                                                          | 86.27         | -1.96  | 84.31          | 105.2    | -20.89 | peak          |
| 5720                                                          | 93.83         | -2.87  | 90.96          | 110.8    | -19.84 | peak          |
| 5725                                                          | 109.11        | -2.14  | 106.97         | 122.2    | -15.23 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.59         | -2.06  | 56.53          | 68.2     | -11.67 | peak          |
| 5700                                                          | 89.1          | -1.96  | 87.14          | 105.2    | -18.06 | peak          |
| 5720                                                          | 93.57         | -2.87  | 90.7           | 110.8    | -20.1  | peak          |
| 5725                                                          | 108.34        | -2.14  | 106.2          | 122.2    | -16    | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.55        | -1.97  | 106.58         | 122.2    | -15.62 | peak          |
| 5855                                                          | 91.83         | -2.13  | 89.7           | 110.8    | -21.1  | peak          |
| 5875                                                          | 91.28         | -2.65  | 88.63          | 105.2    | -16.57 | peak          |
| 5925                                                          | 52.51         | -2.28  | 50.23          | 68.2     | -17.97 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.23        | -1.97  | 104.26         | 122.2    | -17.94 | peak          |
| 5855                                                          | 90.87         | -2.13  | 88.74          | 110.8    | -22.06 | peak          |
| 5875                                                          | 88.18         | -2.65  | 85.53          | 105.2    | -19.67 | peak          |
| 5925                                                          | 53.45         | -2.28  | 51.17          | 68.2     | -17.03 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.11         | -2.06  | 55.05          | 68.2     | -13.15 | peak          |
| 5700                                                          | 88.34         | -1.96  | 86.38          | 105.2    | -18.82 | peak          |
| 5720                                                          | 92.15         | -2.87  | 89.28          | 110.8    | -21.52 | peak          |
| 5725                                                          | 111.16        | -2.14  | 109.02         | 122.2    | -13.18 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.33         | -2.06  | 55.27          | 68.2     | -12.93 | peak          |
| 5700                                                          | 89.95         | -1.96  | 87.99          | 105.2    | -17.21 | peak          |
| 5720                                                          | 92.77         | -2.87  | 89.9           | 110.8    | -20.9  | peak          |
| 5725                                                          | 108.46        | -2.14  | 106.32         | 122.2    | -15.88 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.65        | -1.97  | 105.68         | 122.2    | -16.52 | peak          |
| 5855                                                          | 92.64         | -2.13  | 90.51          | 110.8    | -20.29 | peak          |
| 5875                                                          | 88.48         | -2.65  | 85.83          | 105.2    | -19.37 | peak          |
| 5925                                                          | 52.48         | -2.28  | 50.2           | 68.2     | -18    | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.18        | -1.97  | 104.21         | 122.2    | -17.99 | peak          |
| 5855                                                          | 96.25         | -2.13  | 94.12          | 110.8    | -16.68 | peak          |
| 5875                                                          | 90.72         | -2.65  | 88.07          | 105.2    | -17.13 | peak          |
| 5925                                                          | 54.21         | -2.28  | 51.93          | 68.2     | -16.27 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 52.64         | -2.06  | 50.58          | 68.2     | -17.62 | peak          |
| 5700                                                          | 88.86         | -1.96  | 86.9           | 105.2    | -18.3  | peak          |
| 5720                                                          | 93.83         | -2.87  | 90.96          | 110.8    | -19.84 | peak          |
| 5725                                                          | 106.24        | -2.14  | 104.1          | 122.2    | -18.1  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.57         | -2.06  | 55.51          | 68.2     | -12.69 | peak          |
| 5700                                                          | 90.87         | -1.96  | 88.91          | 105.2    | -16.29 | peak          |
| 5720                                                          | 93.85         | -2.87  | 90.98          | 110.8    | -19.82 | peak          |
| 5725                                                          | 109.76        | -2.14  | 107.62         | 122.2    | -14.58 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 104.69        | -1.97  | 102.72         | 122.2    | -19.48 | peak          |
| 5855                                                          | 92.72         | -2.13  | 90.59          | 110.8    | -20.21 | peak          |
| 5875                                                          | 86.07         | -2.65  | 83.42          | 105.2    | -21.78 | peak          |
| 5925                                                          | 51.69         | -2.28  | 49.41          | 68.2     | -18.79 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.92        | -1.97  | 107.95         | 122.2    | -14.25 | peak          |
| 5855                                                          | 94.16         | -2.13  | 92.03          | 110.8    | -18.77 | peak          |
| 5875                                                          | 85.09         | -2.65  | 82.44          | 105.2    | -22.76 | peak          |
| 5925                                                          | 53.33         | -2.28  | 51.05          | 68.2     | -17.15 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 52.35         | -2.06  | 50.29          | 68.2     | -17.91 | peak          |
| 5700                                                          | 88.81         | -1.96  | 86.85          | 105.2    | -18.35 | peak          |
| 5720                                                          | 91.48         | -2.87  | 88.61          | 110.8    | -22.19 | peak          |
| 5725                                                          | 108.67        | -2.14  | 106.53         | 122.2    | -15.67 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.21         | -2.06  | 55.15          | 68.2     | -13.05 | peak          |
| 5700                                                          | 90.32         | -1.96  | 88.36          | 105.2    | -16.84 | peak          |
| 5720                                                          | 94.74         | -2.87  | 91.87          | 110.8    | -18.93 | peak          |
| 5725                                                          | 109.94        | -2.14  | 107.8          | 122.2    | -14.4  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.09        | -1.97  | 104.12         | 122.2    | -18.08 | peak          |
| 5855                                                          | 94.84         | -2.13  | 92.71          | 110.8    | -18.09 | peak          |
| 5875                                                          | 90.99         | -2.65  | 88.34          | 105.2    | -16.86 | peak          |
| 5925                                                          | 51.92         | -2.28  | 49.64          | 68.2     | -18.56 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.34        | -1.97  | 104.37         | 122.2    | -17.83 | peak          |
| 5855                                                          | 91.35         | -2.13  | 89.22          | 110.8    | -21.58 | peak          |
| 5875                                                          | 87.96         | -2.65  | 85.31          | 105.2    | -19.89 | peak          |
| 5925                                                          | 52.29         | -2.28  | 50.01          | 68.2     | -18.19 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

**MIMO**

Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

## Horizontal

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 5650                                                          | 55.53                   | -2.06          | 53.47                      | 68.2               | -14.73         |               |
| 5700                                                          | 89.47                   | -1.96          | 87.51                      | 105.2              | -17.69         | peak          |
| 5720                                                          | 94.49                   | -2.87          | 91.62                      | 110.8              | -19.18         | peak          |
| 5725                                                          | 111.57                  | -2.14          | 109.43                     | 122.2              | -12.77         | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

## Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 5650                                                          | 61.58                   | -2.06          | 59.52                      | 68.2               | -8.68          |               |
| 5700                                                          | 94.08                   | -1.96          | 92.12                      | 105.2              | -13.08         | peak          |
| 5720                                                          | 96.77                   | -2.87          | 93.9                       | 110.8              | -16.9          | peak          |
| 5725                                                          | 110.93                  | -2.14          | 108.79                     | 122.2              | -13.41         | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.36        | -1.97  | 106.39         | 122.2    | -15.81 | peak          |
| 5855                                                          | 92.51         | -2.13  | 90.38          | 110.8    | -20.42 | peak          |
| 5875                                                          | 87.24         | -2.65  | 84.59          | 105.2    | -20.61 | peak          |
| 5925                                                          | 52.55         | -2.28  | 50.27          | 68.2     | -17.93 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 103.69        | -1.97  | 101.72         | 122.2    | -20.48 | peak          |
| 5855                                                          | 93.05         | -2.13  | 90.92          | 110.8    | -19.88 | peak          |
| 5875                                                          | 85.1          | -2.65  | 82.45          | 105.2    | -22.75 | peak          |
| 5925                                                          | 56.37         | -2.28  | 54.09          | 68.2     | -14.11 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 54.12         | -2.06  | 52.06          | 68.2     | -16.14 | peak          |
| 5700                                                          | 91.27         | -1.96  | 89.31          | 105.2    | -15.89 | peak          |
| 5720                                                          | 89.77         | -2.87  | 86.9           | 110.8    | -23.9  | peak          |
| 5725                                                          | 110.58        | -2.14  | 108.44         | 122.2    | -13.76 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.75         | -2.06  | 54.69          | 68.2     | -13.51 | peak          |
| 5700                                                          | 92.85         | -1.96  | 90.89          | 105.2    | -14.31 | peak          |
| 5720                                                          | 94.36         | -2.87  | 91.49          | 110.8    | -19.31 | peak          |
| 5725                                                          | 110.21        | -2.14  | 108.07         | 122.2    | -14.13 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 104.4         | -1.97  | 102.43         | 122.2    | -19.77 | peak          |
| 5855                                                          | 89.98         | -2.13  | 87.85          | 110.8    | -22.95 | peak          |
| 5875                                                          | 84.91         | -2.65  | 82.26          | 105.2    | -22.94 | peak          |
| 5925                                                          | 53.72         | -2.28  | 51.44          | 68.2     | -16.76 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.07        | -1.97  | 106.1          | 122.2    | -16.1  | peak          |
| 5855                                                          | 92.92         | -2.13  | 90.79          | 110.8    | -20.01 | peak          |
| 5875                                                          | 85.71         | -2.65  | 83.06          | 105.2    | -22.14 | peak          |
| 5925                                                          | 52.17         | -2.28  | 49.89          | 68.2     | -18.31 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.12         | -2.06  | 55.06          | 68.2     | -13.14 | peak          |
| 5700                                                          | 86.87         | -1.96  | 84.91          | 105.2    | -20.29 | peak          |
| 5720                                                          | 93.44         | -2.87  | 90.57          | 110.8    | -20.23 | peak          |
| 5725                                                          | 107.52        | -2.14  | 105.38         | 122.2    | -16.82 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.3          | -2.06  | 54.24          | 68.2     | -13.96 | peak          |
| 5700                                                          | 91.12         | -1.96  | 89.16          | 105.2    | -16.04 | peak          |
| 5720                                                          | 92.06         | -2.87  | 89.19          | 110.8    | -21.61 | peak          |
| 5725                                                          | 108.77        | -2.14  | 106.63         | 122.2    | -15.57 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.44        | -1.97  | 105.47         | 122.2    | -16.73 | peak          |
| 5855                                                          | 93.72         | -2.13  | 91.59          | 110.8    | -19.21 | peak          |
| 5875                                                          | 89.93         | -2.65  | 87.28          | 105.2    | -17.92 | peak          |
| 5925                                                          | 51.88         | -2.28  | 49.6           | 68.2     | -18.6  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.91        | -1.97  | 106.94         | 122.2    | -15.26 | peak          |
| 5855                                                          | 94.1          | -2.13  | 91.97          | 110.8    | -18.83 | peak          |
| 5875                                                          | 87.84         | -2.65  | 85.19          | 105.2    | -20.01 | peak          |
| 5925                                                          | 55.25         | -2.28  | 52.97          | 68.2     | -15.23 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.39         | -2.06  | 55.33          | 68.2     | -12.87 | peak          |
| 5700                                                          | 86.18         | -1.96  | 84.22          | 105.2    | -20.98 | peak          |
| 5720                                                          | 92.23         | -2.87  | 89.36          | 110.8    | -21.44 | peak          |
| 5725                                                          | 108.69        | -2.14  | 106.55         | 122.2    | -15.65 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.46         | -2.06  | 55.4           | 68.2     | -12.8  | peak          |
| 5700                                                          | 86.28         | -1.96  | 84.32          | 105.2    | -20.88 | peak          |
| 5720                                                          | 91.75         | -2.87  | 88.88          | 110.8    | -21.92 | peak          |
| 5725                                                          | 109.8         | -2.14  | 107.66         | 122.2    | -14.54 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.51        | -1.97  | 108.54         | 122.2    | -13.66 | peak          |
| 5855                                                          | 93.34         | -2.13  | 91.21          | 110.8    | -19.59 | peak          |
| 5875                                                          | 88.56         | -2.65  | 85.91          | 105.2    | -19.29 | peak          |
| 5925                                                          | 52.55         | -2.28  | 50.27          | 68.2     | -17.93 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.83        | -1.97  | 108.86         | 122.2    | -13.34 | peak          |
| 5855                                                          | 92.54         | -2.13  | 90.41          | 110.8    | -20.39 | peak          |
| 5875                                                          | 87.47         | -2.65  | 84.82          | 105.2    | -20.38 | peak          |
| 5925                                                          | 58.56         | -2.28  | 56.28          | 68.2     | -11.92 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 54.9          | -2.06  | 52.84          | 68.2     | -15.36 | peak          |
| 5700                                                          | 87.86         | -1.96  | 85.9           | 105.2    | -19.3  | peak          |
| 5720                                                          | 96.16         | -2.87  | 93.29          | 110.8    | -17.51 | peak          |
| 5725                                                          | 110.07        | -2.14  | 107.93         | 122.2    | -14.27 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.08         | -2.06  | 53.02          | 68.2     | -15.18 | peak          |
| 5700                                                          | 90.45         | -1.96  | 88.49          | 105.2    | -16.71 | peak          |
| 5720                                                          | 93.31         | -2.87  | 90.44          | 110.8    | -20.36 | peak          |
| 5725                                                          | 109.79        | -2.14  | 107.65         | 122.2    | -14.55 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.45        | -1.97  | 106.48         | 122.2    | -15.72 | peak          |
| 5855                                                          | 93.14         | -2.13  | 91.01          | 110.8    | -19.79 | peak          |
| 5875                                                          | 88.93         | -2.65  | 86.28          | 105.2    | -18.92 | peak          |
| 5925                                                          | 48.24         | -2.28  | 45.96          | 68.2     | -22.24 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.26        | -1.97  | 106.29         | 122.2    | -15.91 | peak          |
| 5855                                                          | 92.01         | -2.13  | 89.88          | 110.8    | -20.92 | peak          |
| 5875                                                          | 88.49         | -2.65  | 85.84          | 105.2    | -19.36 | peak          |
| 5925                                                          | 54.06         | -2.28  | 51.78          | 68.2     | -16.42 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.53         | -2.06  | 53.47          | 68.2     | -14.73 | peak          |
| 5700                                                          | 86.84         | -1.96  | 84.88          | 105.2    | -20.32 | peak          |
| 5720                                                          | 95.37         | -2.87  | 92.5           | 110.8    | -18.3  | peak          |
| 5725                                                          | 110.15        | -2.14  | 108.01         | 122.2    | -14.19 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.73         | -2.06  | 55.67          | 68.2     | -12.53 | peak          |
| 5700                                                          | 91.25         | -1.96  | 89.29          | 105.2    | -15.91 | peak          |
| 5720                                                          | 93.21         | -2.87  | 90.34          | 110.8    | -20.46 | peak          |
| 5725                                                          | 107.49        | -2.14  | 105.35         | 122.2    | -16.85 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.65        | -1.97  | 106.68         | 122.2    | -15.52 | peak          |
| 5855                                                          | 93.4          | -2.13  | 91.27          | 110.8    | -19.53 | peak          |
| 5875                                                          | 86.72         | -2.65  | 84.07          | 105.2    | -21.13 | peak          |
| 5925                                                          | 50.72         | -2.28  | 48.44          | 68.2     | -19.76 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.88        | -1.97  | 105.91         | 122.2    | -16.29 | peak          |
| 5855                                                          | 94.43         | -2.13  | 92.3           | 110.8    | -18.5  | peak          |
| 5875                                                          | 85.24         | -2.65  | 82.59          | 105.2    | -22.61 | peak          |
| 5925                                                          | 54.8          | -2.28  | 52.52          | 68.2     | -15.68 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.26         | -2.06  | 54.2           | 68.2     | -14    | peak          |
| 5700                                                          | 85.45         | -1.96  | 83.49          | 105.2    | -21.71 | peak          |
| 5720                                                          | 95.23         | -2.87  | 92.36          | 110.8    | -18.44 | peak          |
| 5725                                                          | 108.05        | -2.14  | 105.91         | 122.2    | -16.29 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.61         | -2.06  | 54.55          | 68.2     | -13.65 | peak          |
| 5700                                                          | 88.88         | -1.96  | 86.92          | 105.2    | -18.28 | peak          |
| 5720                                                          | 93.26         | -2.87  | 90.39          | 110.8    | -20.41 | peak          |
| 5725                                                          | 110.24        | -2.14  | 108.1          | 122.2    | -14.1  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.78        | -1.97  | 107.81         | 122.2    | -14.39 | peak          |
| 5855                                                          | 92.65         | -2.13  | 90.52          | 110.8    | -20.28 | peak          |
| 5875                                                          | 85.79         | -2.65  | 83.14          | 105.2    | -22.06 | peak          |
| 5925                                                          | 53.61         | -2.28  | 51.33          | 68.2     | -16.87 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 111.66        | -1.97  | 109.69         | 122.2    | -12.51 | peak          |
| 5855                                                          | 93.27         | -2.13  | 91.14          | 110.8    | -19.66 | peak          |
| 5875                                                          | 89.27         | -2.65  | 86.62          | 105.2    | -18.58 | peak          |
| 5925                                                          | 59.17         | -2.28  | 56.89          | 68.2     | -11.31 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.44         | -2.06  | 54.38          | 68.2     | -13.82 | peak          |
| 5700                                                          | 88.71         | -1.96  | 86.75          | 105.2    | -18.45 | peak          |
| 5720                                                          | 95.2          | -2.87  | 92.33          | 110.8    | -18.47 | peak          |
| 5725                                                          | 110.94        | -2.14  | 108.8          | 122.2    | -13.4  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 55.2          | -2.06  | 53.14          | 68.2     | -15.06 | peak          |
| 5700                                                          | 95.26         | -1.96  | 93.3           | 105.2    | -11.9  | peak          |
| 5720                                                          | 92.16         | -2.87  | 89.29          | 110.8    | -21.51 | peak          |
| 5725                                                          | 109.83        | -2.14  | 107.69         | 122.2    | -14.51 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.26        | -1.97  | 107.29         | 122.2    | -14.91 | peak          |
| 5855                                                          | 95.63         | -2.13  | 93.5           | 110.8    | -17.3  | peak          |
| 5875                                                          | 86.38         | -2.65  | 83.73          | 105.2    | -21.47 | peak          |
| 5925                                                          | 50.02         | -2.28  | 47.74          | 68.2     | -20.46 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

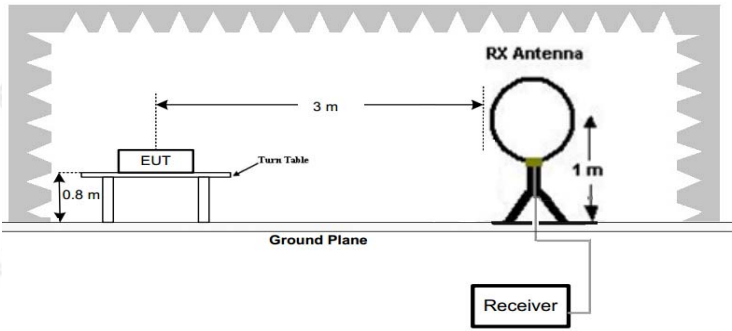
Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 108.23        | -1.97  | 106.26         | 122.2    | -15.94 | peak          |
| 5855                                                          | 93.7          | -2.13  | 91.57          | 110.8    | -19.23 | peak          |
| 5875                                                          | 87.56         | -2.65  | 84.91          | 105.2    | -20.29 | peak          |
| 5925                                                          | 55.06         | -2.28  | 52.78          | 68.2     | -15.42 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



## 4.7. SPURIOUS EMISSION

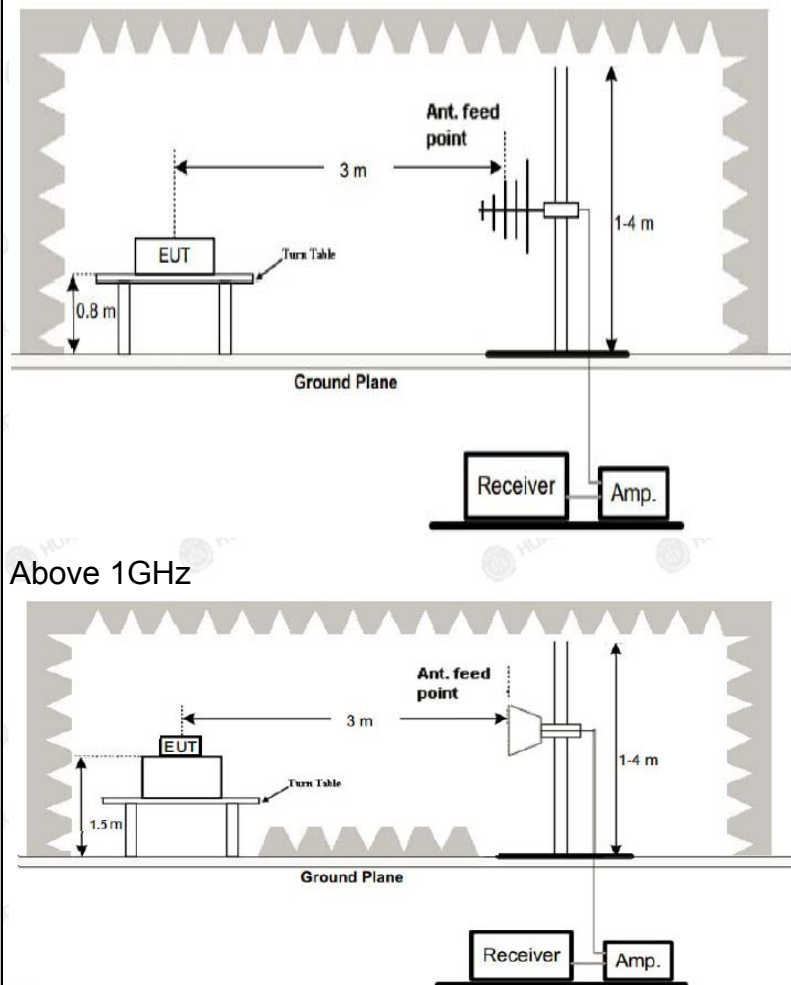
### 4.7.1.1. Test Specification

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |        |        |                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|--------|------------------|
| <b>Test Requirement:</b>     | FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |        |        |                  |
| <b>Test Method:</b>          | KDB 789033 D02 v02r01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |        |        |                  |
| <b>Frequency Range:</b>      | 9kHz to 40GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |        |        |                  |
| <b>Measurement Distance:</b> | 3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |        |        |                  |
| <b>Antenna Polarization:</b> | Horizontal & Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |        |        |                  |
| <b>Operation mode:</b>       | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |        |        |                  |
| <b>Receiver Setup:</b>       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Detector   | RBW    | VBW    | Remark           |
|                              | 9kHz- 150kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quasi-peak | 200Hz  | 1kHz   | Quasi-peak Value |
|                              | 150kHz- 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quasi-peak | 9kHz   | 30kHz  | Quasi-peak Value |
|                              | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
|                              | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Peak       | 1MHz   | 3MHz   | Peak Value       |
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Peak       | 1MHz   | 10Hz   | Average Value    |
| <b>Limit:</b>                | <p>(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should comply 15.209.</p> |            |        |        |                  |
| <b>Test setup:</b>           | <p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |        |        |                  |

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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**Test Procedure:**

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



|               |                                                                                                                                                                                                                                                                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
| Test results: | PASS                                                                                                                                                                                                                                                                                                                                                   |





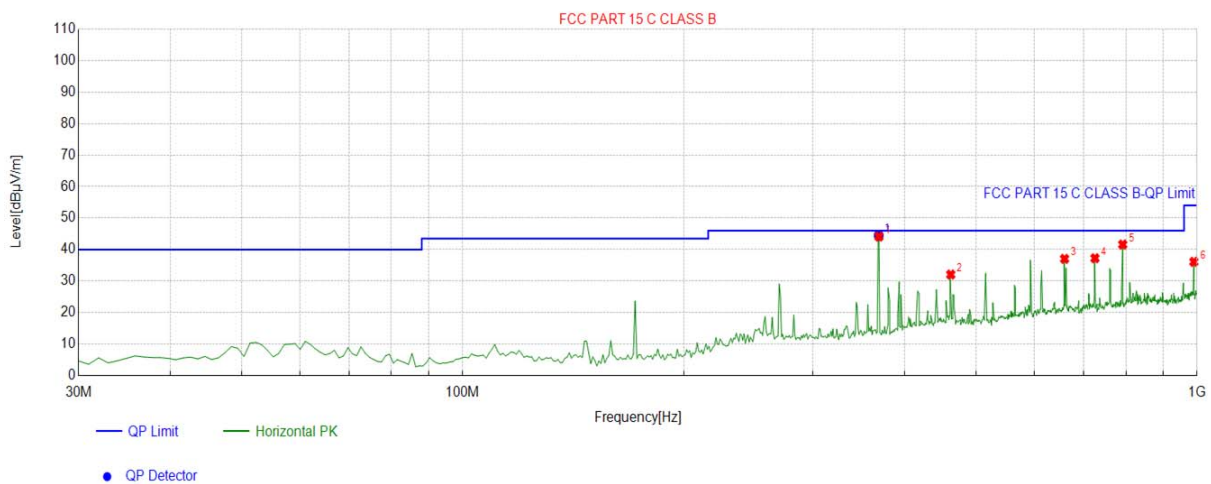
#### 4.7.2. Test Data

test mode: TX 802.11a 5745MHz

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.

##### Below 1GHz

##### Horizontal

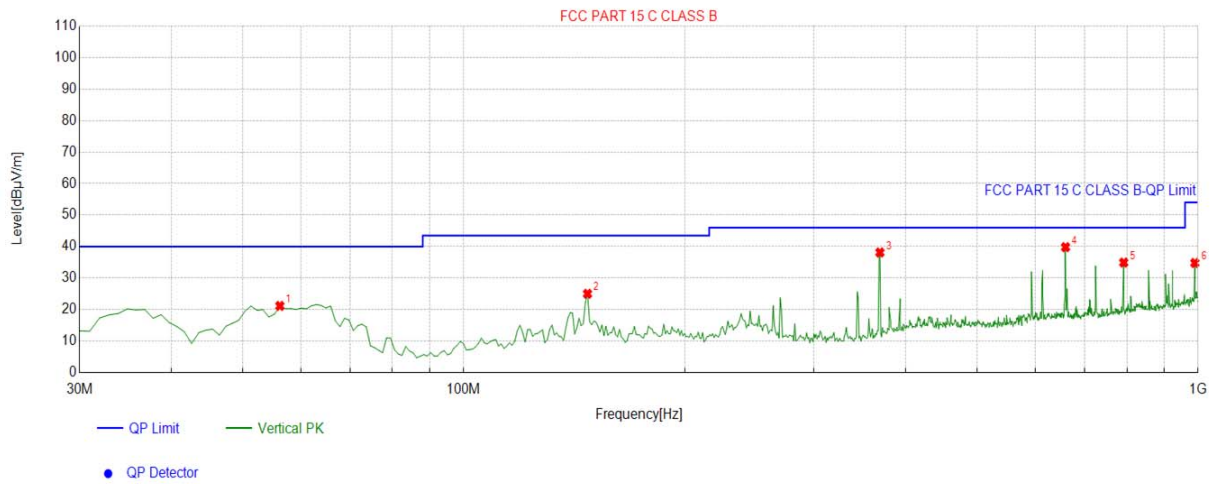


| Suspected List  |             |             |                     |                   |                   |                |             |           |            |
|-----------------|-------------|-------------|---------------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| NO.             | Freq. [MHz] | Factor [dB] | Reading [dBμV/m]    | Level [dBμV/m]    | Limit [dBμV/m]    | Margin [dB]    | Height [cm] | Angle [°] | Polarity   |
| 1               | 368.8689    | -11.07      | 55.21               | 44.14             | 46.00             | 1.86           | 100         | 312       | Horizontal |
| 2               | 462.0821    | -8.35       | 40.45               | 32.10             | 46.00             | 13.90          | 100         | 65        | Horizontal |
| 3               | 660.1602    | -4.49       | 41.57               | 37.08             | 46.00             | 8.92           | 100         | 334       | Horizontal |
| 4               | 726.1862    | -3.42       | 40.69               | 37.27             | 46.00             | 8.73           | 100         | 52        | Horizontal |
| 5               | 792.2122    | -2.09       | 43.70               | 41.61             | 46.00             | 4.39           | 100         | 342       | Horizontal |
| 6               | 990.2903    | 0.41        | 35.73               | 36.14             | 54.00             | 17.86          | 100         | 44        | Horizontal |
| Final Data List |             |             |                     |                   |                   |                |             |           |            |
| NO.             | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 368.6122    | -11.07      | 55.61               | 44.54             | 46.00             | 1.46           | 200         | 325.3     | Horizontal |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



## Vertical



## Suspected List

| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| 1   | 56.2162     | -14.40      | 35.60            | 21.20          | 40.00          | 18.80       | 100         | 23        | Vertical |
| 2   | 147.4875    | -18.58      | 43.62            | 25.04          | 43.50          | 18.46       | 100         | 352       | Vertical |
| 3   | 368.8689    | -11.07      | 49.21            | 38.14          | 46.00          | 7.86        | 100         | 18        | Vertical |
| 4   | 660.1602    | -4.49       | 44.32            | 39.83          | 46.00          | 6.17        | 100         | 318       | Vertical |
| 5   | 792.2122    | -2.09       | 37.03            | 34.94          | 46.00          | 11.06       | 100         | 10        | Vertical |
| 6   | 990.2903    | 0.41        | 34.41            | 34.82          | 54.00          | 19.18       | 100         | 23        | Vertical |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

## Harmonics and Spurious Emissions

## Frequency Range (9 kHz-30MHz)

| Frequency (MHz) | Level@3m (dBμV/m) | Limit@3m (dBμV/m) |
|-----------------|-------------------|-------------------|
| --              | --                | --                |
| --              | --                | --                |
| --              | --                | --                |
| --              | --                | --                |

**Note:** 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

**Above 1GHz****RADIATED EMISSION TEST**

LOW CH 149 (802.11 a Mode with 5.8G)/5745

All modes of operation were investigated and the worst-case of Ant 1 are reported.

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 51.72         | -4.59  | 47.13          | 68.2     | -21.07 | peak          |
| 11096                                                         | 48.5          | 4.21   | 52.71          | 74       | -21.29 | peak          |
| 11096                                                         | 37.04         | 4.21   | 41.25          | 54       | -12.75 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 58.38         | -4.59  | 53.79          | 68.2     | -14.41 | peak          |
| 11096                                                         | 55.06         | 4.21   | 59.27          | 74       | -14.73 | peak          |
| 11096                                                         | 34.12         | 4.21   | 38.33          | 54       | -15.67 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 57.34         | -4.59  | 52.75          | 68.2     | -15.45 | peak          |
| 10523     | 51.54         | 4.21   | 55.75          | 68.2     | -12.45 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 54.17         | -4.59  | 49.58          | 68.2     | -18.62 | peak          |
| 10523     | 53.34         | 4.21   | 57.55          | 68.2     | -10.65 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.





HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 58.38                   | -4.59          | 53.79                      | 74                 | -20.21         |               |
| 2705                                                          | 48.2                    | -4.59          | 43.61                      | 54                 | -10.39         | AVG           |
| 11717                                                         | 53.22                   | 4.84           | 58.06                      | 74                 | -15.94         | peak          |
| 11717                                                         | 36.71                   | 4.84           | 41.55                      | 54                 | -12.45         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 56.12                   | -4.59          | 51.53                      | 74                 | -22.47         |               |
| 2705                                                          | 44.68                   | -4.59          | 40.09                      | 54                 | -13.91         | AVG           |
| 11717                                                         | 52.92                   | 4.84           | 57.76                      | 74                 | -16.24         | peak          |
| 11717                                                         | 40.33                   | 4.84           | 45.17                      | 54                 | -8.83          | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11n20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 60.33         | -4.59  | 55.74          | 68.2     | -12.46 | peak          |
| 11096                                                         | 56.1          | 4.21   | 60.31          | 74       | -13.69 | peak          |
| 11096                                                         | 39.65         | 4.21   | 43.86          | 54       | -10.14 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 61.25         | -4.59  | 56.66          | 68.2     | -11.54 | peak          |
| 11096                                                         | 53.45         | 4.21   | 57.66          | 74       | -16.34 | peak          |
| 11096                                                         | 35.66         | 4.21   | 39.87          | 54       | -14.13 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



MID CH157

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 62.56         | -4.59  | 57.97          | 68.2     | -10.23 | peak          |
| 10523     | 53.1          | 4.21   | 57.31          | 68.2     | -10.89 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 56.3          | -4.59  | 51.71          | 68.2     | -16.49 | peak          |
| 10523     | 55.08         | 4.21   | 59.29          | 68.2     | -8.91  | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH165

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dB $\mu$ V) | Factor<br>(dB) | Emission Level<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|---------------|
| 2705                                                          | 58.26                         | -4.59          | 53.67                            | 74                       | -20.33         |               |
| 2705                                                          | 48.09                         | -4.59          | 43.5                             | 54                       | -10.5          | AVG           |
| 11717                                                         | 53.11                         | 4.84           | 57.95                            | 74                       | -16.05         | peak          |
| 11717                                                         | 37.58                         | 4.84           | 42.42                            | 54                       | -11.58         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                               |                |                                  |                          |                |               |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dB $\mu$ V) | Factor<br>(dB) | Emission Level<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|---------------|
| 2705                                                          | 58.51                         | -4.59          | 53.92                            | 74                       | -20.08         |               |
| 2705                                                          | 46.09                         | -4.59          | 41.5                             | 54                       | -12.5          | AVG           |
| 11717                                                         | 50.86                         | 4.84           | 55.7                             | 74                       | -18.3          | peak          |
| 11717                                                         | 34.68                         | 4.84           | 39.52                            | 54                       | -14.48         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                               |                |                                  |                          |                |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



**5.8G 802.11n40 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

**LOW CH 151****Horizontal:**

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 64.2          | -4.59  | 59.61          | 68.2     | -8.59  | peak          |
| 11096     | 59.47         | 4.21   | 63.68          | 74       | -10.32 | peak          |
| 11096     | 37.01         | 4.21   | 41.22          | 54       | -12.78 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**Vertical:**

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 62.48         | -4.59  | 57.89          | 68.2     | -10.31 | peak          |
| 11096     | 54.81         | 4.21   | 59.02          | 74       | -14.98 | peak          |
| 11096     | 34.87         | 4.21   | 39.08          | 54       | -14.92 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH159

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 62.8          | -4.59  | 58.21          | 68.2     | -9.99  | peak          |
| 10523                                                         | 52.93         | 4.21   | 57.14          | 68.2     | -11.06 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 56.5          | -4.59  | 51.91          | 68.2     | -16.29 | peak          |
| 10523                                                         | 49.47         | 4.21   | 53.68          | 68.2     | -14.52 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11ac20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 60.49         | -4.59  | 55.9           | 68.2     | -12.3  | peak          |
| 11096     | 51.28         | 4.21   | 55.49          | 74       | -18.51 | peak          |
| 11096     | 38.41         | 4.21   | 42.62          | 54       | -11.38 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 58.91         | -4.59  | 54.32          | 68.2     | -13.88 | peak          |
| 11096     | 56.32         | 4.21   | 60.53          | 74       | -13.47 | peak          |
| 11096     | 35.83         | 4.21   | 40.04          | 54       | -13.96 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH157

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 60.92         | -4.59  | 56.33          | 68.2     | -11.87 | peak          |
| 10523     | 52.14         | 4.21   | 56.35          | 68.2     | -11.85 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 57.38         | -4.59  | 52.79          | 68.2     | -15.41 | peak          |
| 10523     | 50.59         | 4.21   | 54.8           | 68.2     | -13.4  | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.





HIGH CH165

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 58.85                   | -4.59          | 54.26                      | 74                 | -19.74         |               |
| 2705                                                          | 50.77                   | -4.59          | 46.18                      | 54                 | -7.82          | AVG           |
| 11717                                                         | 53.88                   | 4.84           | 58.72                      | 74                 | -15.28         | peak          |
| 11717                                                         | 38.45                   | 4.84           | 43.29                      | 54                 | -10.71         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 57.23                   | -4.59          | 52.64                      | 74                 | -21.36         |               |
| 2705                                                          | 45.56                   | -4.59          | 40.97                      | 54                 | -13.03         | AVG           |
| 11717                                                         | 50.77                   | 4.84           | 55.61                      | 74                 | -18.39         | peak          |
| 11717                                                         | 35.28                   | 4.84           | 40.12                      | 54                 | -13.88         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**5.8G 802.11ac40 Mode**

All modes of operation were investigated and the worst-case of MIMO are reported.

**LOW CH 151****Horizontal:**

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 61.98         | -4.59  | 57.39          | 68.2     | -10.81 | peak          |
| 11096     | 57.41         | 4.21   | 61.62          | 74       | -12.38 | peak          |
| 11096     | 37.32         | 4.21   | 41.53          | 54       | -12.47 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**Vertical:**

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 62.68         | -4.59  | 58.09          | 68.2     | -10.11 | peak          |
| 11096     | 55.28         | 4.21   | 59.49          | 74       | -14.51 | peak          |
| 11096     | 38.35         | 4.21   | 42.56          | 54       | -11.44 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



5.8G 802.11ac80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

CH 155

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 57.69         | -4.59  | 53.1           | 68.2     | -15.1  | peak          |
| 11096                                                         | 54.5          | 4.21   | 58.71          | 74       | -15.29 | peak          |
| 11096                                                         | 35.73         | 4.21   | 39.94          | 54       | -14.06 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 60.89         | -4.59  | 56.3           | 68.2     | -11.9  | peak          |
| 11096                                                         | 56.06         | 4.21   | 60.27          | 74       | -13.73 | peak          |
| 11096                                                         | 37.41         | 4.21   | 41.62          | 54       | -12.38 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11ax20 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

LOW CH 149

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 59.09         | -4.59  | 54.5           | 68.2     | -13.7  | peak          |
| 11096                                                         | 50.88         | 4.21   | 55.09          | 74       | -18.91 | peak          |
| 11096                                                         | 37.28         | 4.21   | 41.49          | 54       | -12.51 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368                                                          | 61.2          | -4.59  | 56.61          | 68.2     | -11.59 | peak          |
| 11096                                                         | 56.54         | 4.21   | 60.75          | 74       | -13.25 | peak          |
| 11096                                                         | 38.27         | 4.21   | 42.48          | 54       | -11.52 | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |





MID CH157

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 60.55         | -4.59  | 55.96          | 68.2     | -12.24 | peak          |
| 10523                                                         | 51.86         | 4.21   | 56.07          | 68.2     | -12.13 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 57.77         | -4.59  | 53.18          | 68.2     | -15.02 | peak          |
| 10523                                                         | 53.09         | 4.21   | 57.3           | 68.2     | -10.9  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



HIGH CH165

Horizontal:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 58.19                   | -4.59          | 53.6                       | 74                 | -20.4          |               |
| 2705                                                          | 48.98                   | -4.59          | 44.39                      | 54                 | -9.61          | AVG           |
| 11717                                                         | 56.99                   | 4.84           | 61.83                      | 74                 | -12.17         | peak          |
| 11717                                                         | 38.37                   | 4.84           | 43.21                      | 54                 | -10.79         | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Vertical:

| Frequency<br>(MHz)                                            | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|---------------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 2705                                                          | 58.61                   | -4.59          | 54.02                      | 74                 | -19.98         |               |
| 2705                                                          | 45.43                   | -4.59          | 40.84                      | 54                 | -13.16         | AVG           |
| 11717                                                         | 50.75                   | 4.84           | 55.59                      | 74                 | -18.41         | peak          |
| 11717                                                         | 35.96                   | 4.84           | 40.8                       | 54                 | -13.2          | AVG           |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



## 5.8G 802.11ax40 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

## LOW CH 151

## Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 62.17         | -4.59  | 57.58          | 68.2     | -10.62 | peak          |
| 11096     | 60.09         | 4.21   | 64.3           | 74       | -9.7   | peak          |
| 11096     | 35.61         | 4.21   | 39.82          | 54       | -14.18 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 61.64         | -4.59  | 57.05          | 68.2     | -11.15 | peak          |
| 11096     | 56.15         | 4.21   | 60.36          | 74       | -13.64 | peak          |
| 11096     | 36.37         | 4.21   | 40.58          | 54       | -13.42 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH159

Horizontal:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 60.68         | -4.59  | 56.09          | 68.2     | -12.11 | peak          |
| 10523                                                         | 51.78         | 4.21   | 55.99          | 68.2     | -12.21 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172                                                          | 57.82         | -4.59  | 53.23          | 68.2     | -14.97 | peak          |
| 10523                                                         | 51.36         | 4.21   | 55.57          | 68.2     | -12.63 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.





MID CH159

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 61.13         | -4.59  | 56.54          | 68.2     | -11.66 | peak          |
| 10523     | 53.01         | 4.21   | 57.22          | 68.2     | -10.98 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3172      | 58.03         | -4.59  | 53.44          | 68.2     | -14.76 | peak          |
| 10523     | 50.36         | 4.21   | 54.57          | 68.2     | -13.63 | peak          |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5.8G 802.11ax80 Mode

All modes of operation were investigated and the worst-case of MIMO are reported.

CH 155

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 61.27         | -4.59  | 56.68          | 68.2     | -11.52 | peak          |
| 11096     | 53.23         | 4.21   | 57.44          | 74       | -16.56 | peak          |
| 11096     | 37.45         | 4.21   | 41.66          | 54       | -12.34 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)     | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 3368      | 58.79         | -4.59  | 54.2           | 68.2     | -14    | peak          |
| 11096     | 53.88         | 4.21   | 58.09          | 74       | -15.91 | peak          |
| 11096     | 38.63         | 4.21   | 42.84          | 54       | -11.16 | AVG           |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



## 4.8. FREQUENCY STABILITY MEASUREMENT

### 4.8.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 Section 15.407(g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Method:</b>      | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Limit:</b>            | The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.                                                                                                                                                                                                                                                                                                                |
| <b>Test Setup:</b>       | <pre>graph LR; SA[Spectrum Analyzer] --- EUT[EUT]; EUT --- ACDC[AC/DC Power supply]; subgraph TC [Temperature Chamber]; EUT; end</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Test Procedure:</b>   | The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record. |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Remark:</b>           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Test Result as follows:**

| Mode      | Voltage (V) | FHL (5745MHz) | Deviation (KHz) | FHH (5825MHz) | Deviation (KHz) |
|-----------|-------------|---------------|-----------------|---------------|-----------------|
| 5.8G Band | 10.2V       | 5744.978      | -22             | 5825.009      | 9               |
|           | 12V         | 5745.026      | 26              | 5824.953      | -47             |
|           | 13.8V       | 5744.971      | -29             | 5824.965      | -35             |

| Mode      | Temperature (°C) | FHL (5745MHz) | Deviation (KHz) | FHH (5825MHz) | Deviation (KHz) |
|-----------|------------------|---------------|-----------------|---------------|-----------------|
| 5.8G Band | -30              | 5744.972      | -28             | 5825.056      | 56              |
|           | -20              | 5745.013      | 13              | 5825.048      | 48              |
|           | -10              | 5744.962      | -38             | 5824.989      | -11             |
|           | 0                | 5744.976      | -24             | 5824.972      | -28             |
|           | 10               | 5744.951      | -49             | 5825.016      | 16              |
|           | 20               | 5745.018      | 18              | 5824.981      | -19             |
|           | 30               | 5744.961      | -39             | 5824.985      | -15             |
|           | 40               | 5744.984      | -16             | 5824.978      | -22             |
|           | 50               | 5744.949      | -51             | 5825.045      | 45              |





## 4.9. ANTENNA REQUIREMENT

### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

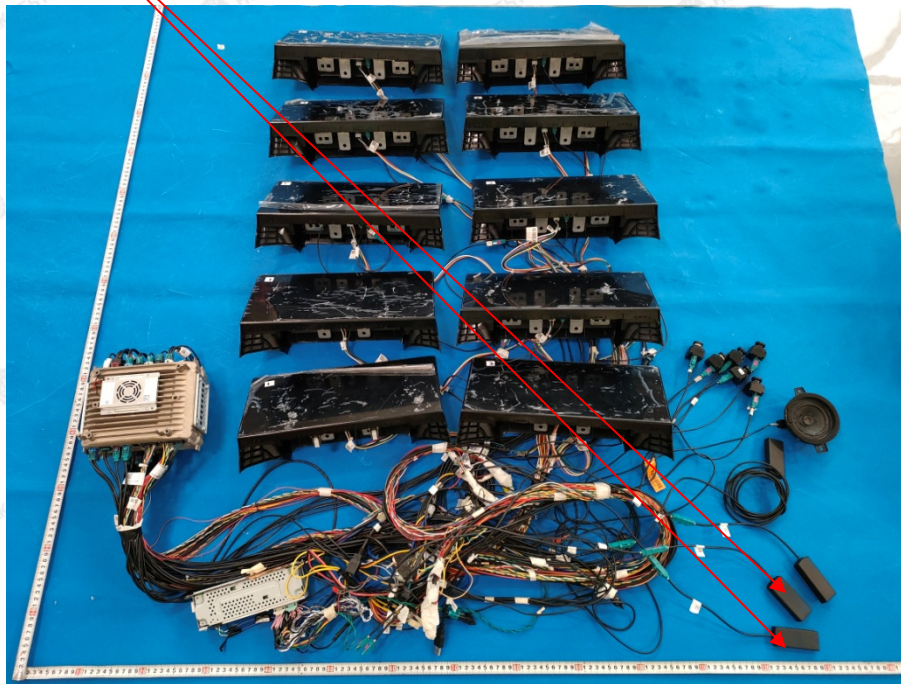
### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### Antenna Connected Construction

The antenna used in this product is a External Antenna, need professional installation. It conforms to the standard requirements. and the best case gain of the antenna is Antenna port 1: 3dBi and Antenna port 2: 3dBi

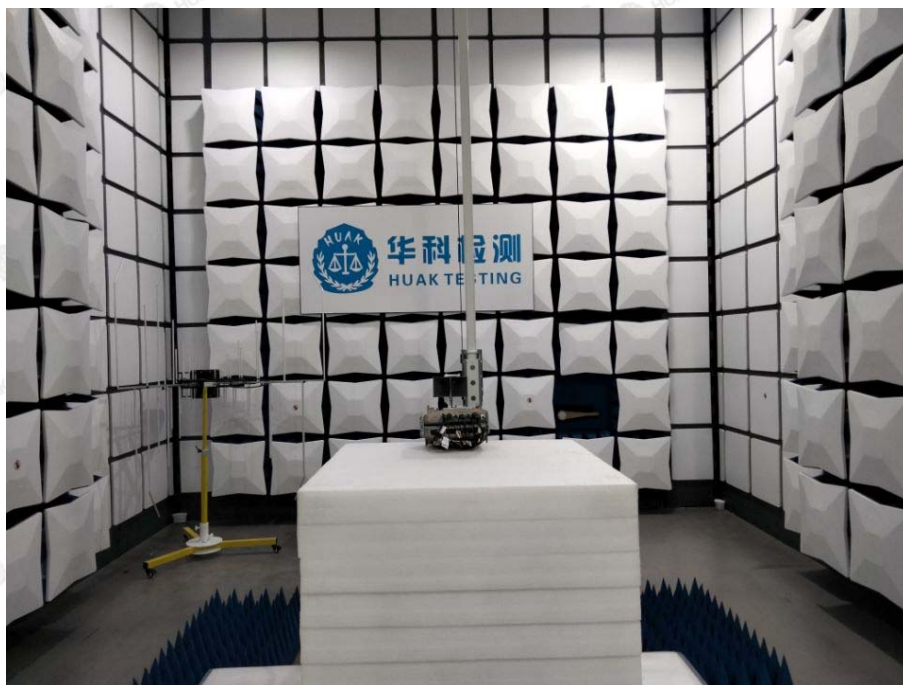
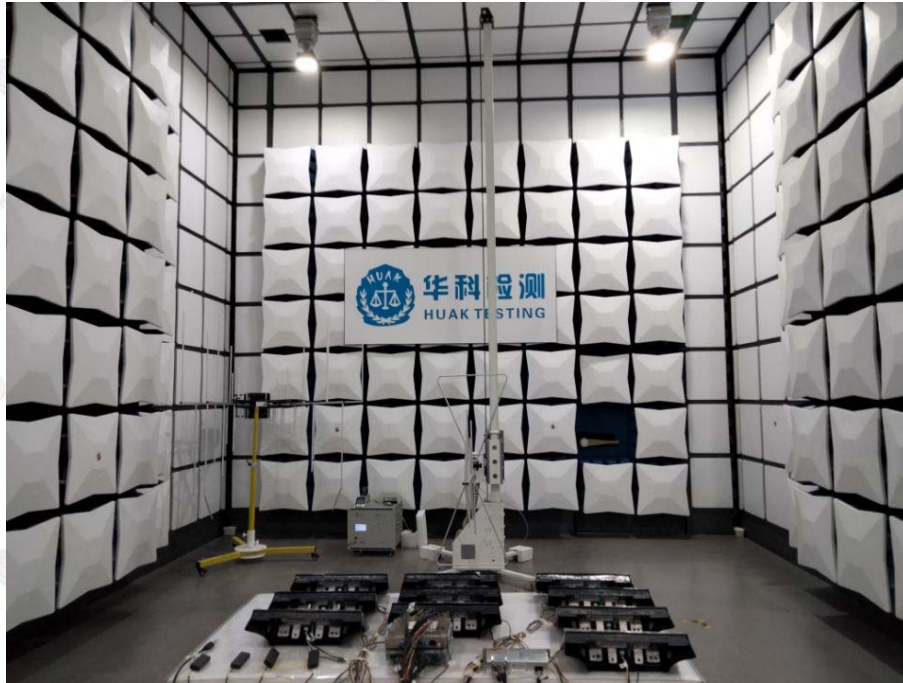
### ANTENNA





## 5. PHOTOGRAPHS OF TEST SETUP

### Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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## 6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----