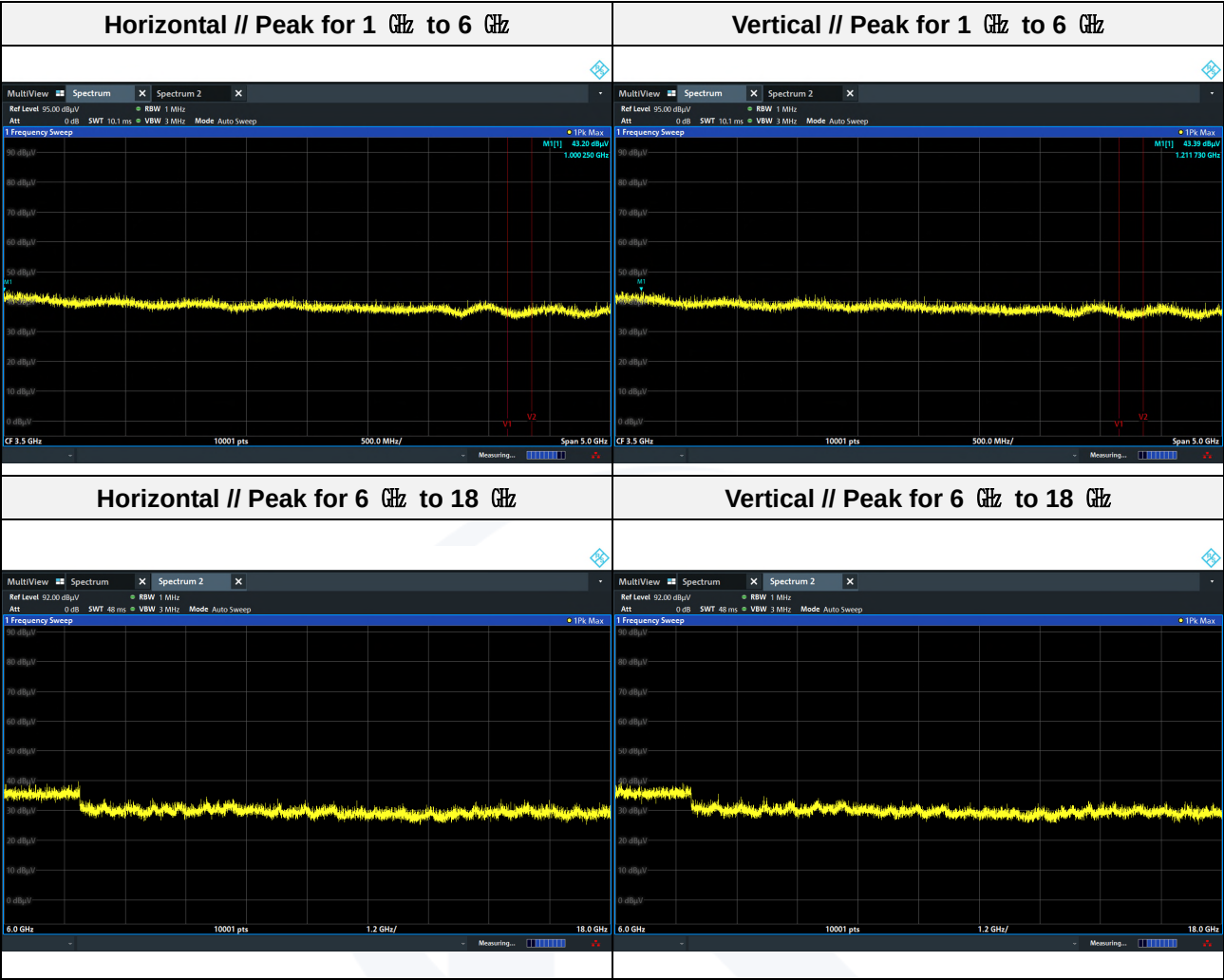




Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



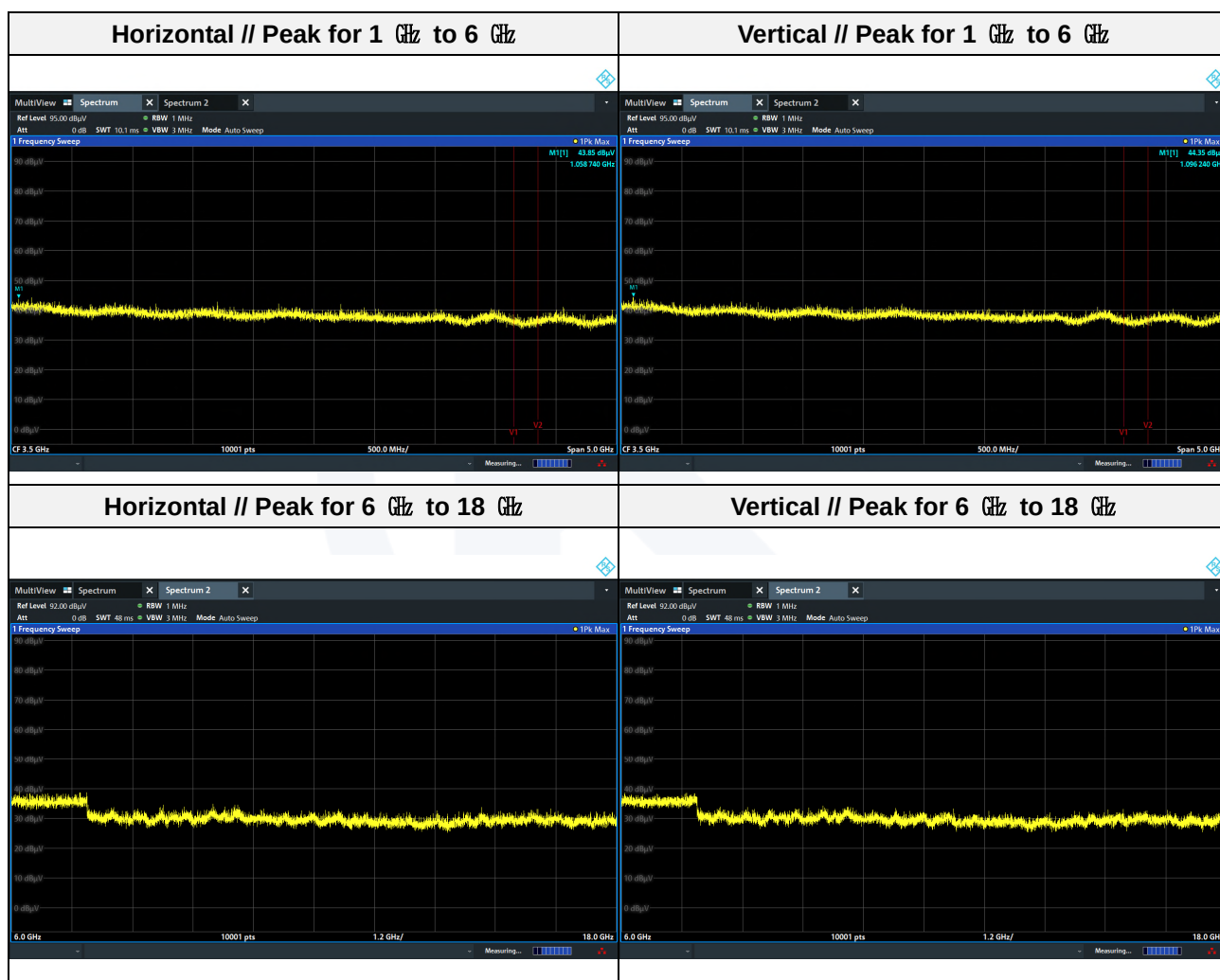
Mode: DC 24 V\_802.11ac\_VHT20 (MCS0)

Distance of measurement: 3 meter

Channel: 44

## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 058.74        | 43.85        | Peak        | H               | -7.80   | -        | 36.05                   | 74.00          | 37.95       |
| 1 096.24        | 44.35        | Peak        | V               | -7.57   | -        | 36.78                   | 74.00          | 37.22       |



Note.

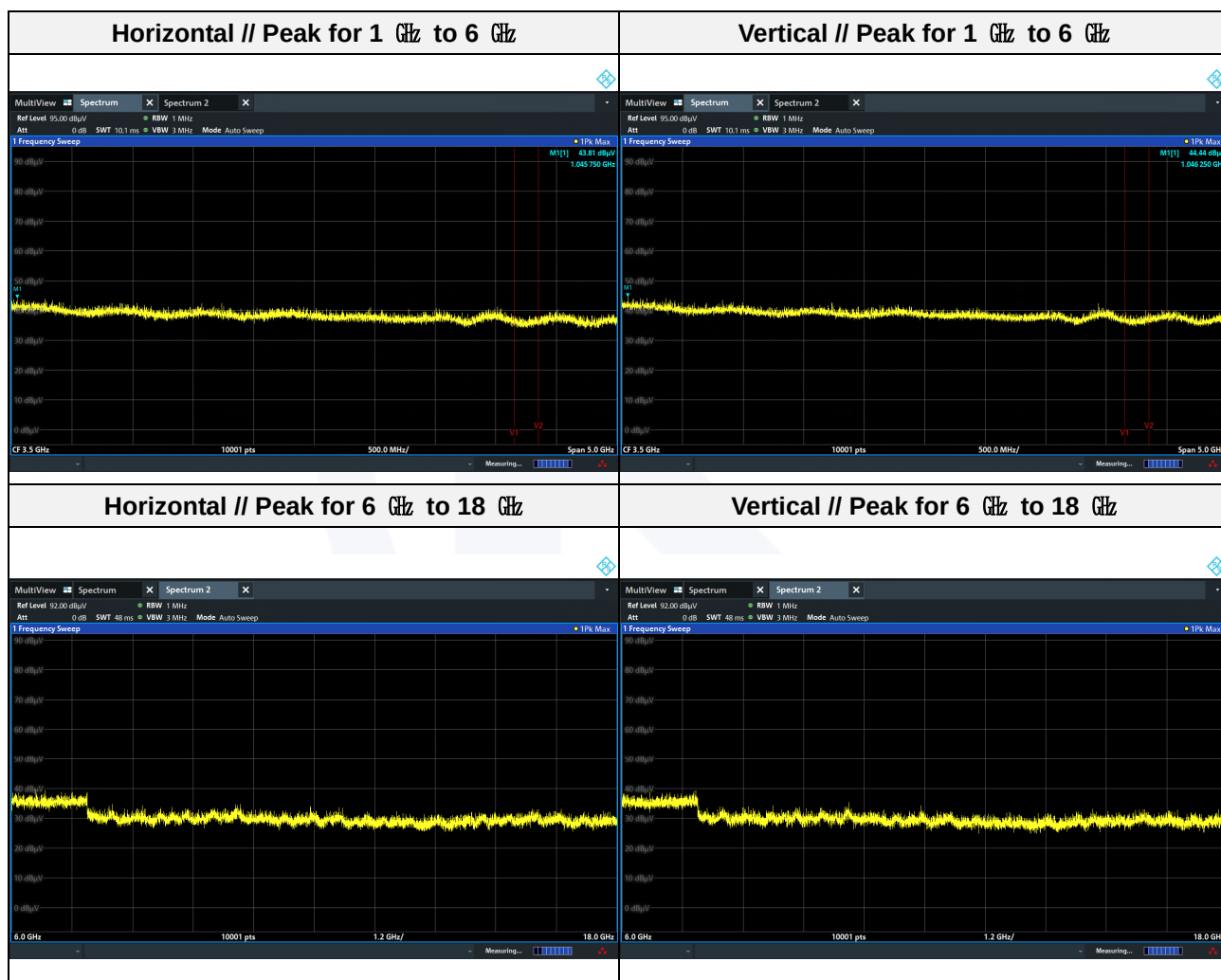
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 24 V\_802.11ac\_VHT20 (MCS0)  
Distance of measurement: 3 meter  
Channel: 48

**- Spurious**

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 045.75        | 43.81        | Peak        | H               | -7.87   | -        | 35.94                   | 74.00          | 38.06       |
| 1 046.25        | 44.44        | Peak        | V               | -7.87   | -        | 36.57                   | 74.00          | 37.43       |



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 12 V\_802.11n\_HT40 (MCS0)

Distance of measurement: 3 meter

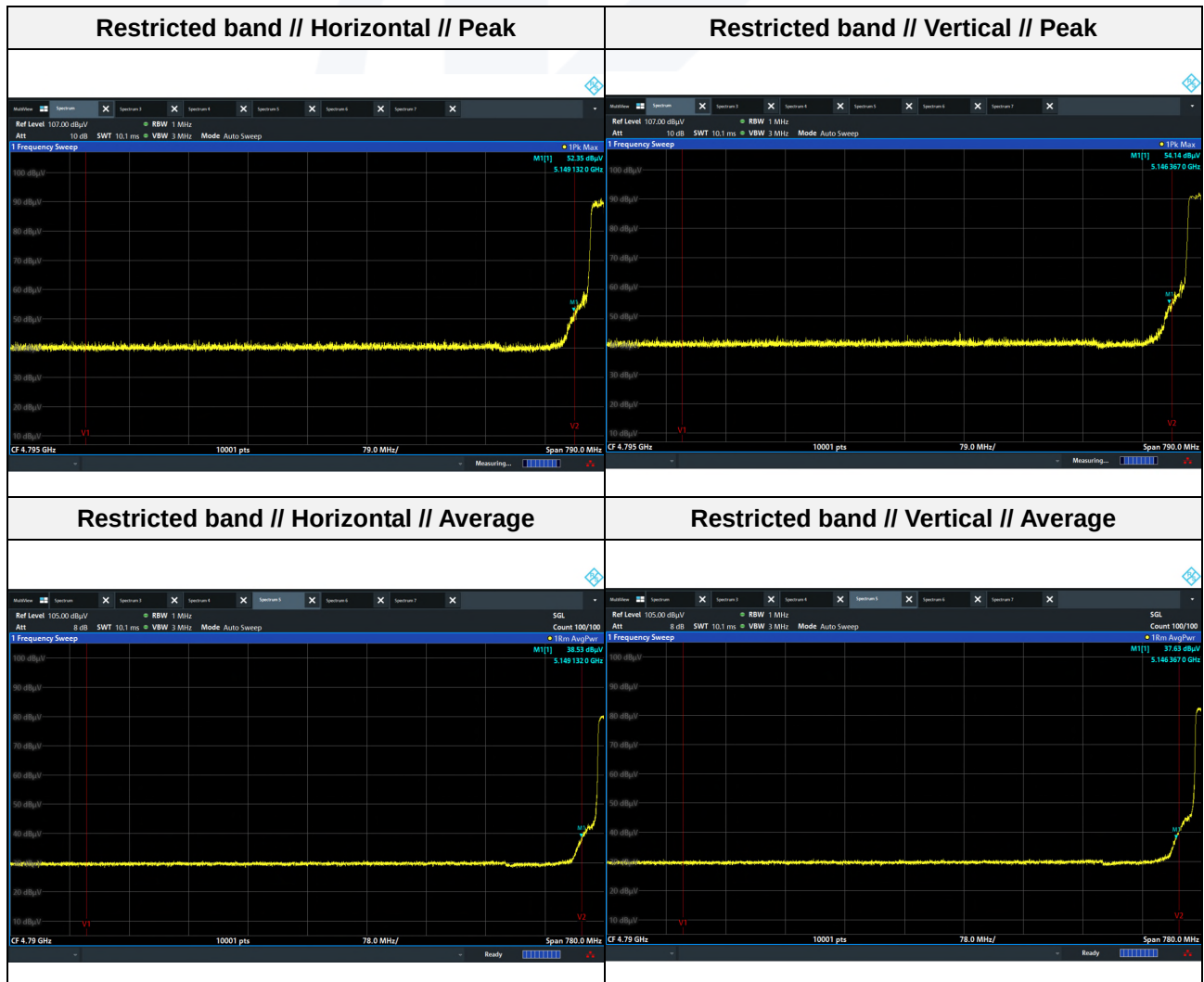
Channel: 38

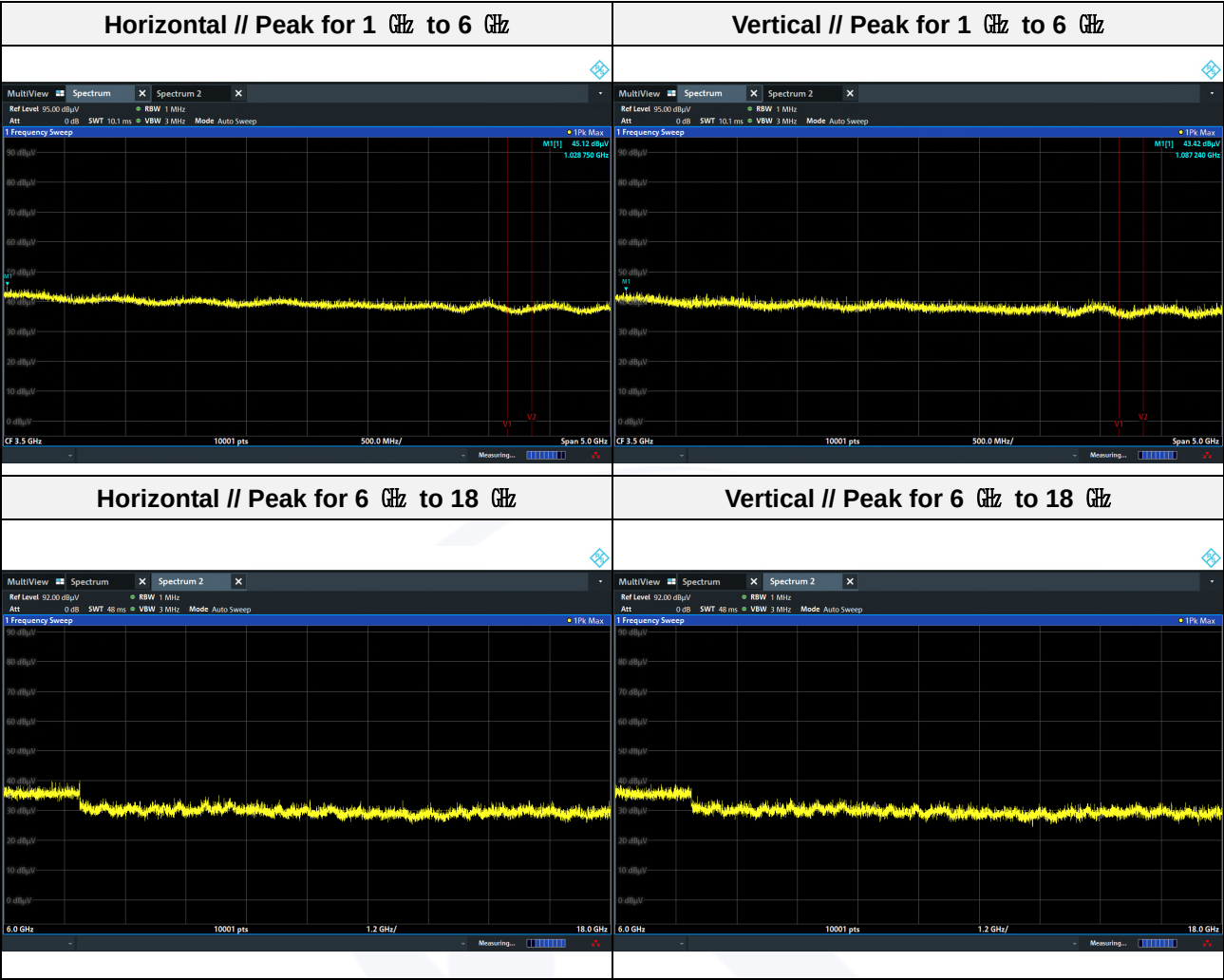
## - Spurious

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 1 028.75        | 45.12              | Peak        | H               | -7.97   | -        | 37.15                         | 74.00                | 36.85       |
| 1 087.24        | 43.42              | Peak        | V               | -7.63   | -        | 35.79                         | 74.00                | 38.21       |

## - Band edge

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 5 146.37        | 54.14              | Peak        | V               | 7.53    | -        | 61.67                         | 74.00                | 12.33       |
| 5 146.37        | 37.63              | Average     | V               | 7.53    | 0.71     | 45.87                         | 54.00                | 8.13        |
| 5 149.13        | 52.35              | Peak        | H               | 7.54    | -        | 59.89                         | 74.00                | 14.11       |
| 5 149.13        | 38.53              | Average     | H               | 7.54    | 0.71     | 46.78                         | 54.00                | 7.22        |





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF250720-R1

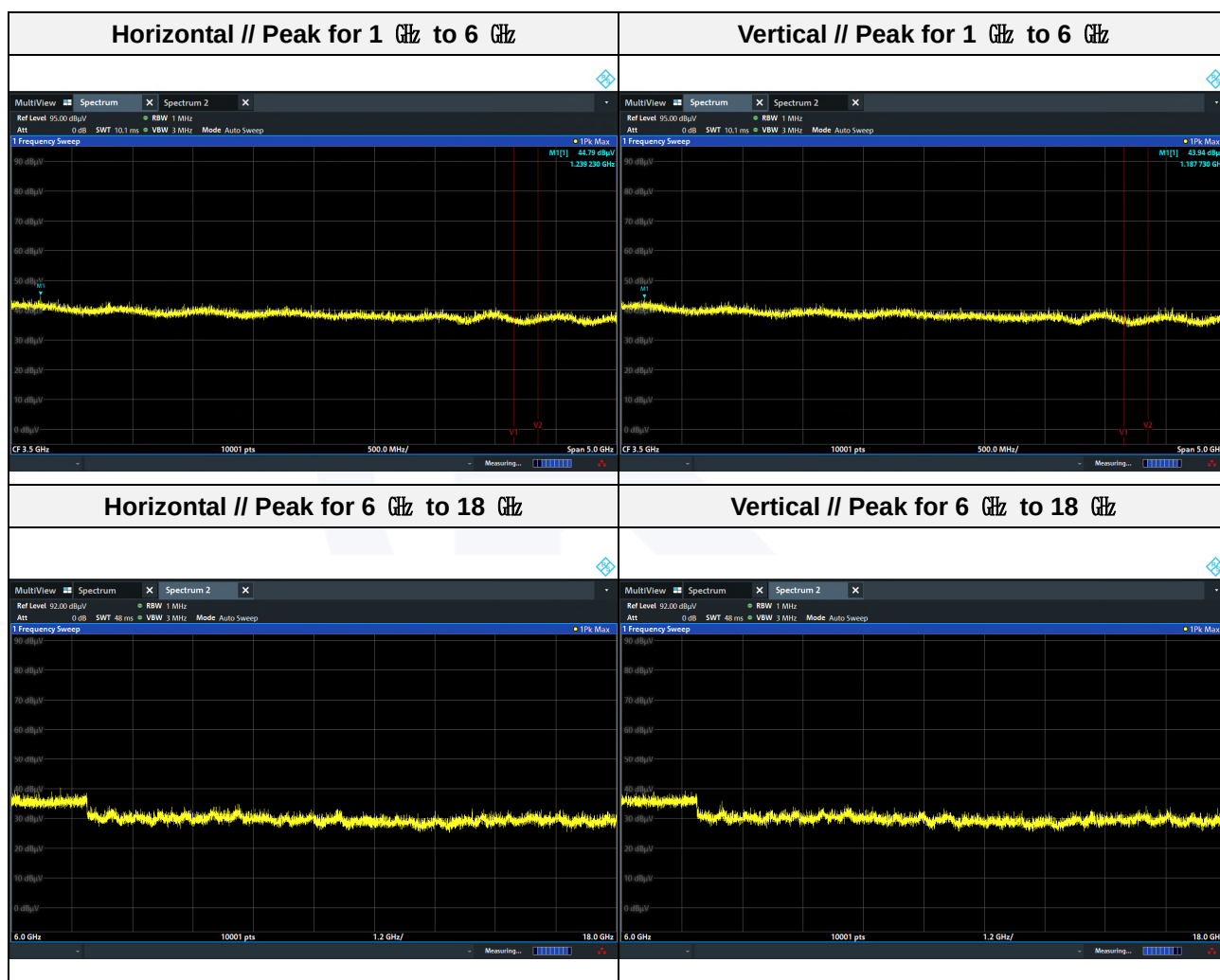
Mode: DC 12 V\_802.11n\_HT40 (MCS0)

Distance of measurement: 3 meter

Channel: 46

## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 187.73        | 43.94        | Peak        | V               | -7.03   | -        | 36.91                   | 74.00          | 37.09       |
| 1 239.23        | 44.79        | Peak        | H               | -6.67   | -        | 38.12                   | 74.00          | 35.88       |



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 24 V\_802.11n\_HT40 (MCS0)

Distance of measurement: 3 meter

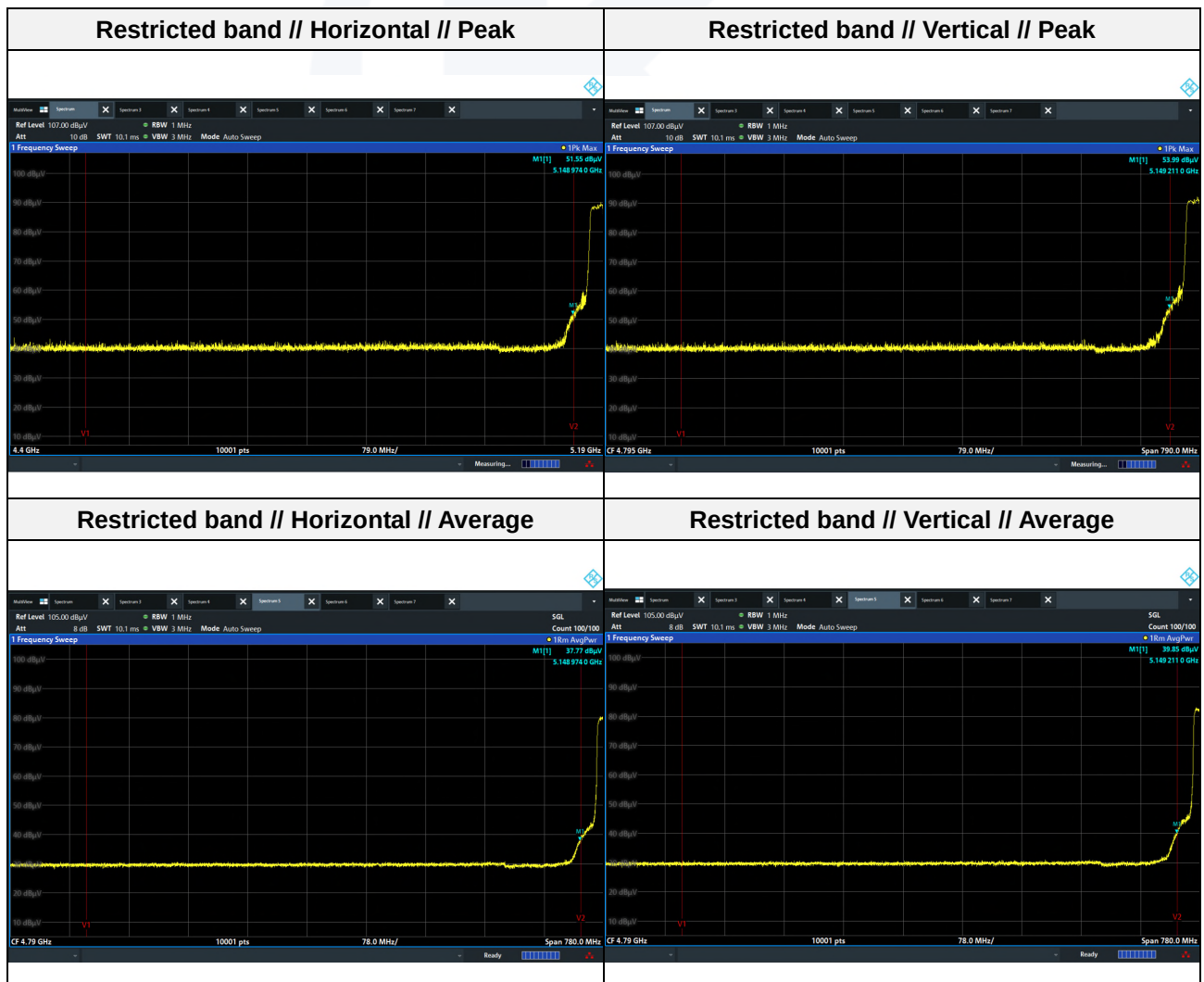
Channel: 38

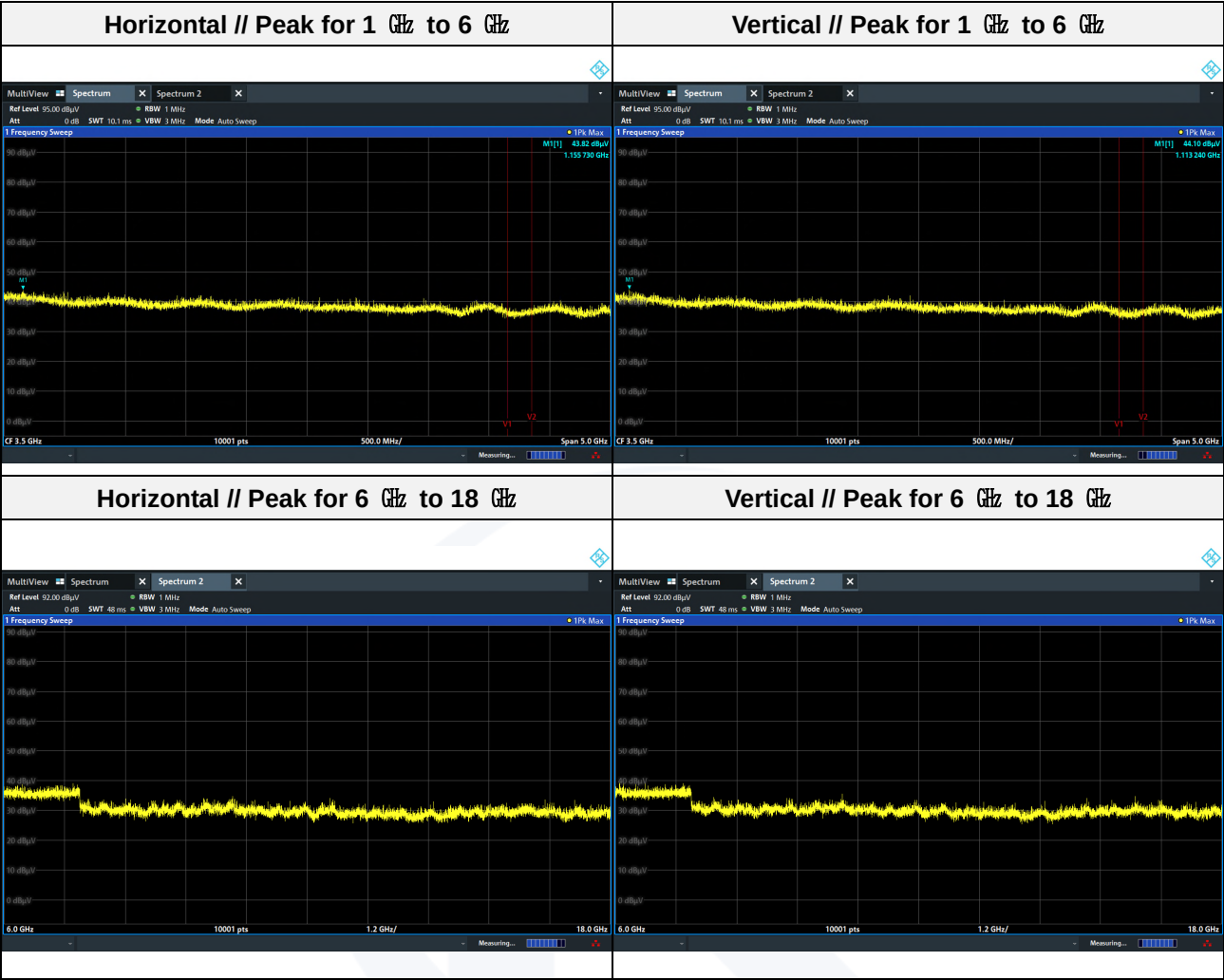
**- Spurious**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 1 113.24        | 44.10              | Peak        | V               | -7.47   | -        | 36.63                         | 74.00                | 37.37       |
| 1 155.73        | 43.82              | Peak        | H               | -7.22   | -        | 36.60                         | 74.00                | 37.40       |

**- Band edge**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 5 148.97        | 51.55              | Peak        | H               | 7.54    | -        | 59.09                         | 74.00                | 14.91       |
| 5 148.97        | 37.77              | Average     | H               | 7.54    | 0.71     | 46.02                         | 54.00                | 7.98        |
| 5 149.21        | 53.99              | Peak        | V               | 7.54    | -        | 61.53                         | 74.00                | 12.47       |
| 5 149.21        | 39.85              | Average     | V               | 7.54    | 0.71     | 48.10                         | 54.00                | 5.90        |





- Note.
- 1. No spurious emission were detected above 6 GHz.
  - 2. Average test would be performed if the peak result were greater than the average limit.



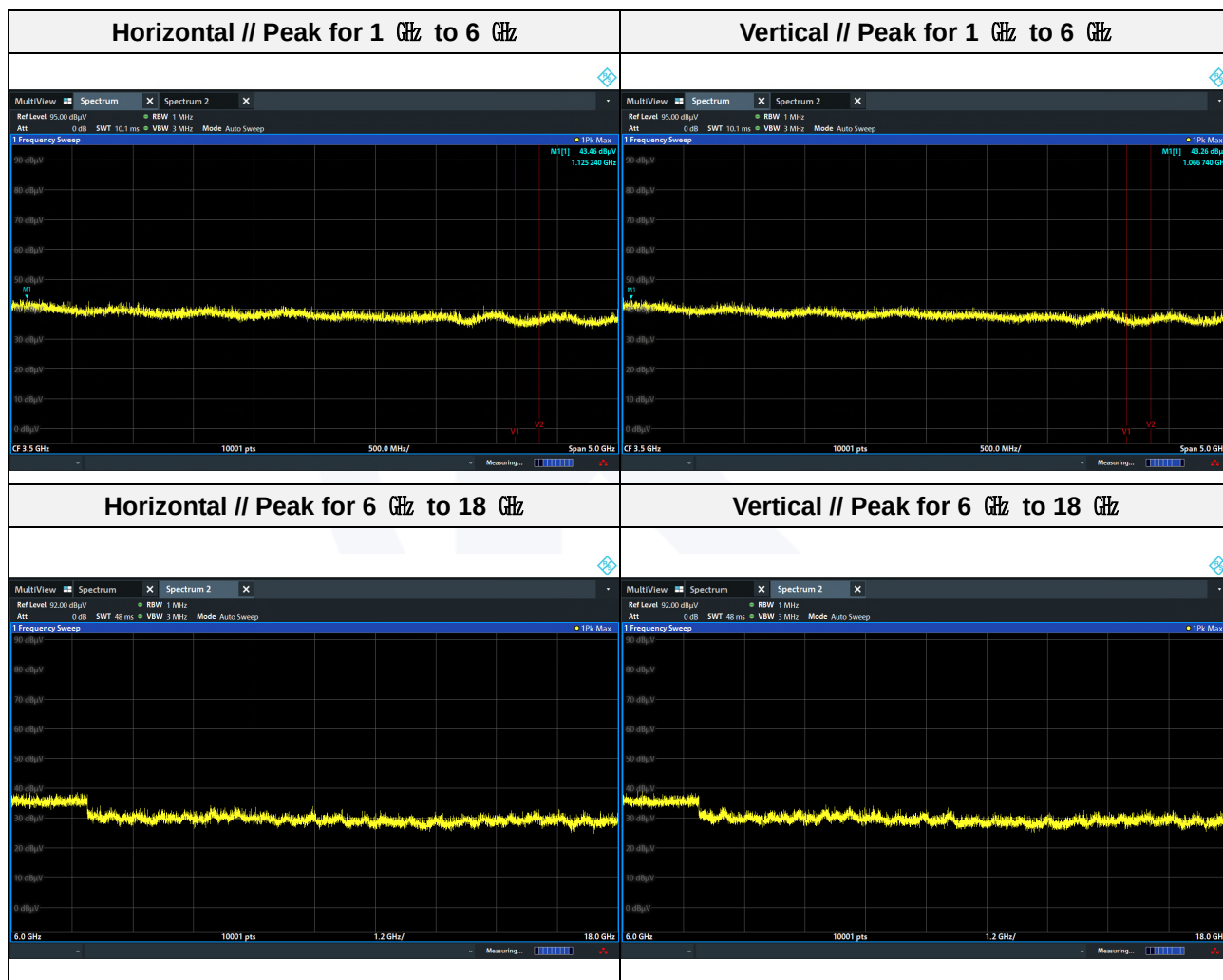
Mode: DC 24 V\_802.11n\_HT40 (MCS0)

Distance of measurement: 3 meter

Channel: 46

## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 066.74        | 43.26        | Peak        | V               | -7.75   | -        | 35.51                   | 74.00          | 38.49       |
| 1 125.24        | 43.46        | Peak        | H               | -7.40   | -        | 36.06                   | 74.00          | 37.94       |



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 12 V\_802.11ac\_VHT40 (MCS0)

Distance of measurement: 3 meter

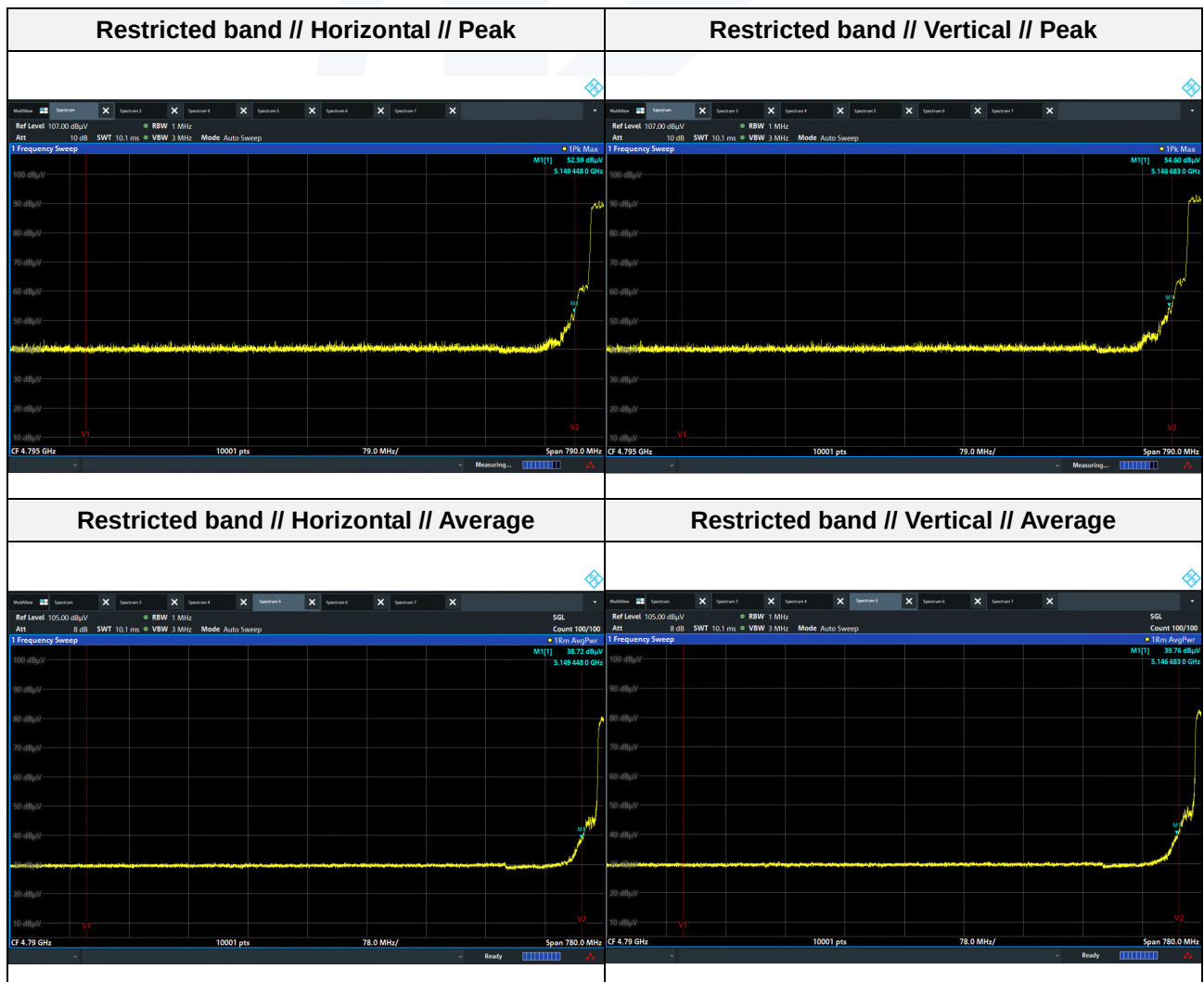
Channel: 38

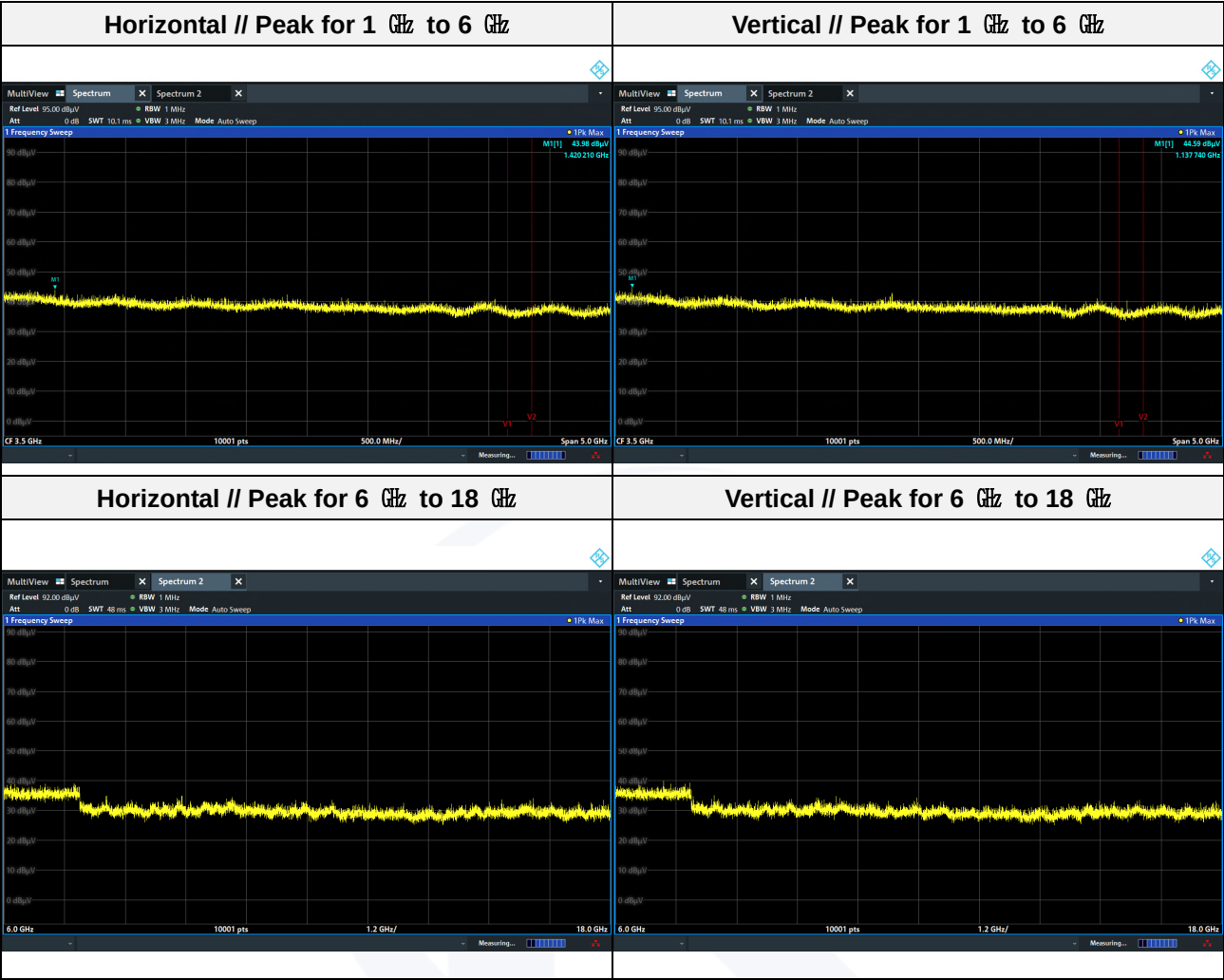
**- Spurious**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 1 137.74        | 44.59              | Peak        | V               | -7.33   | -        | 37.26                         | 74.00                | 36.74       |
| 1 420.21        | 43.98              | Peak        | H               | -5.39   | -        | 38.59                         | 74.00                | 35.41       |

**- Band edge**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 5 146.68        | 54.60              | Peak        | V               | 7.53    | -        | 62.13                         | 74.00                | 11.87       |
| 5 146.68        | 39.76              | Average     | V               | 7.53    | 0.71     | 51.77                         | 54.00                | 2.23        |
| 5 149.45        | 52.59              | Peak        | H               | 7.54    | -        | 60.13                         | 74.00                | 13.87       |
| 5 149.45        | 38.72              | Average     | H               | 7.54    | 0.71     | 50.74                         | 54.00                | 3.26        |





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



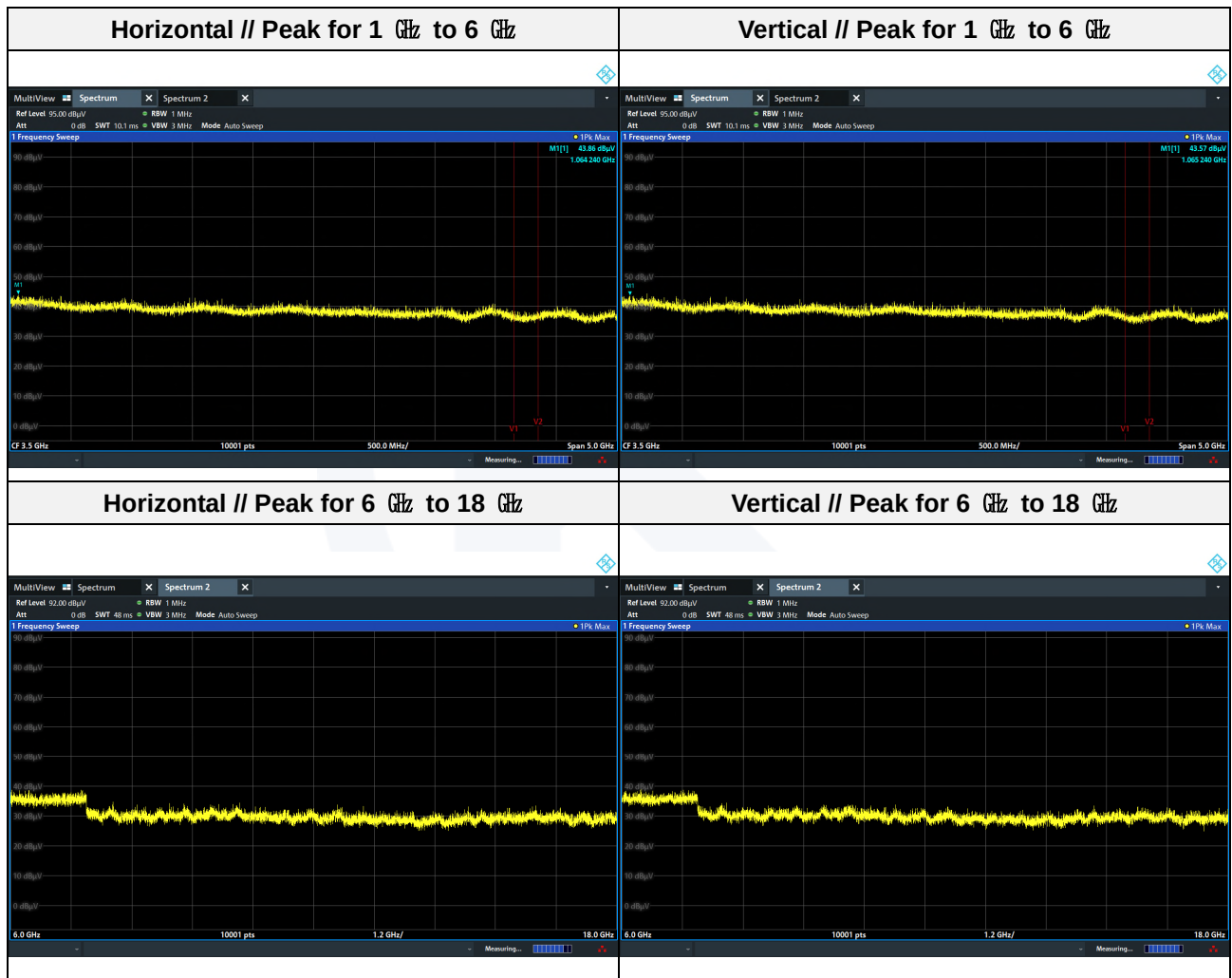
Mode: DC 12 V\_802.11ac\_VHT40 (MCS0)

Distance of measurement: 3 meter

Channel: 46

## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 064.24        | 43.86        | Peak        | H               | -7.76   | -        | 36.10                   | 74.00          | 37.90       |
| 1 065.24        | 43.57        | Peak        | V               | -7.76   | -        | 35.81                   | 74.00          | 38.19       |



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 24 V\_802.11ac\_VHT40 (MCS0)

Distance of measurement: 3 meter

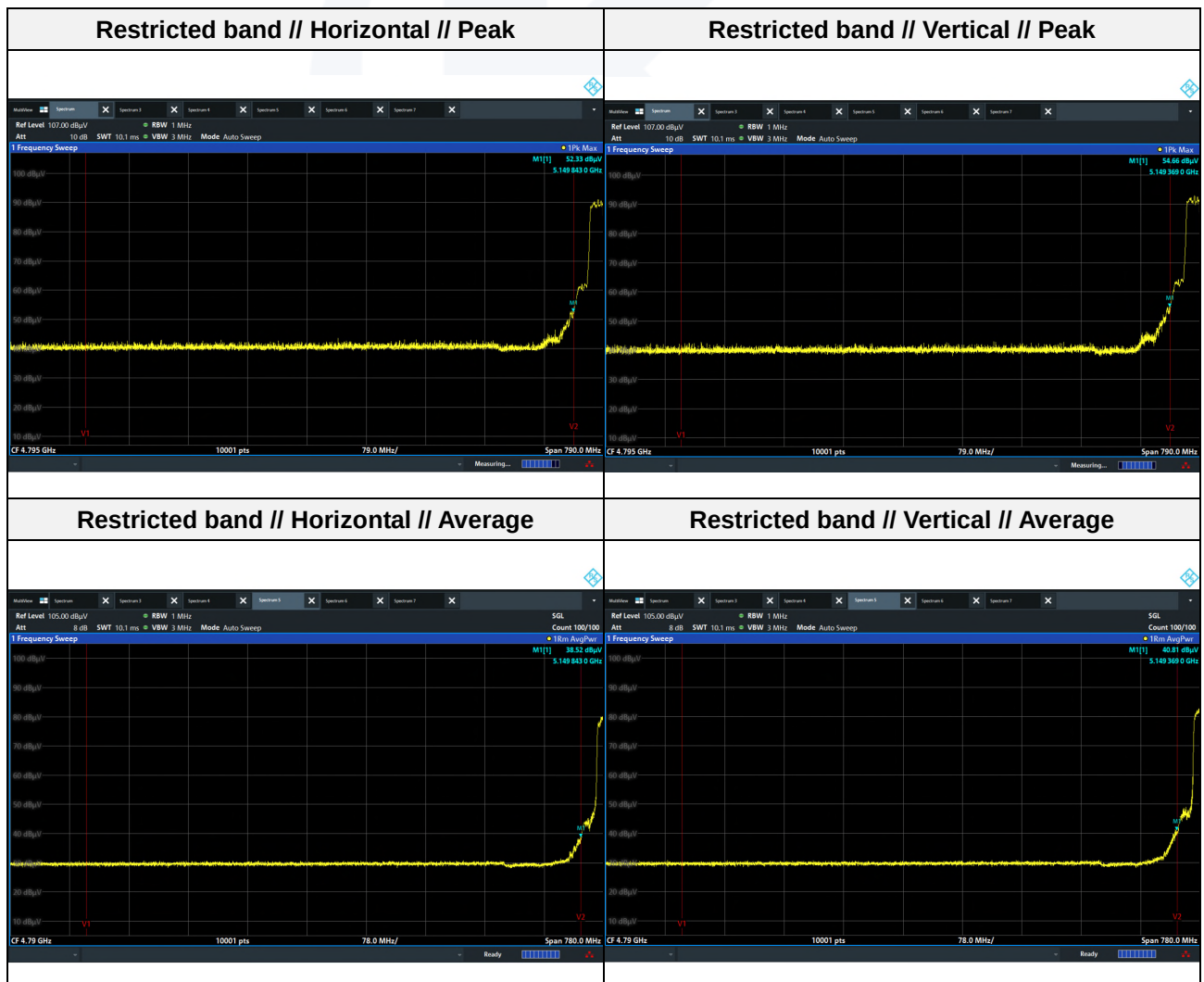
Channel: 38

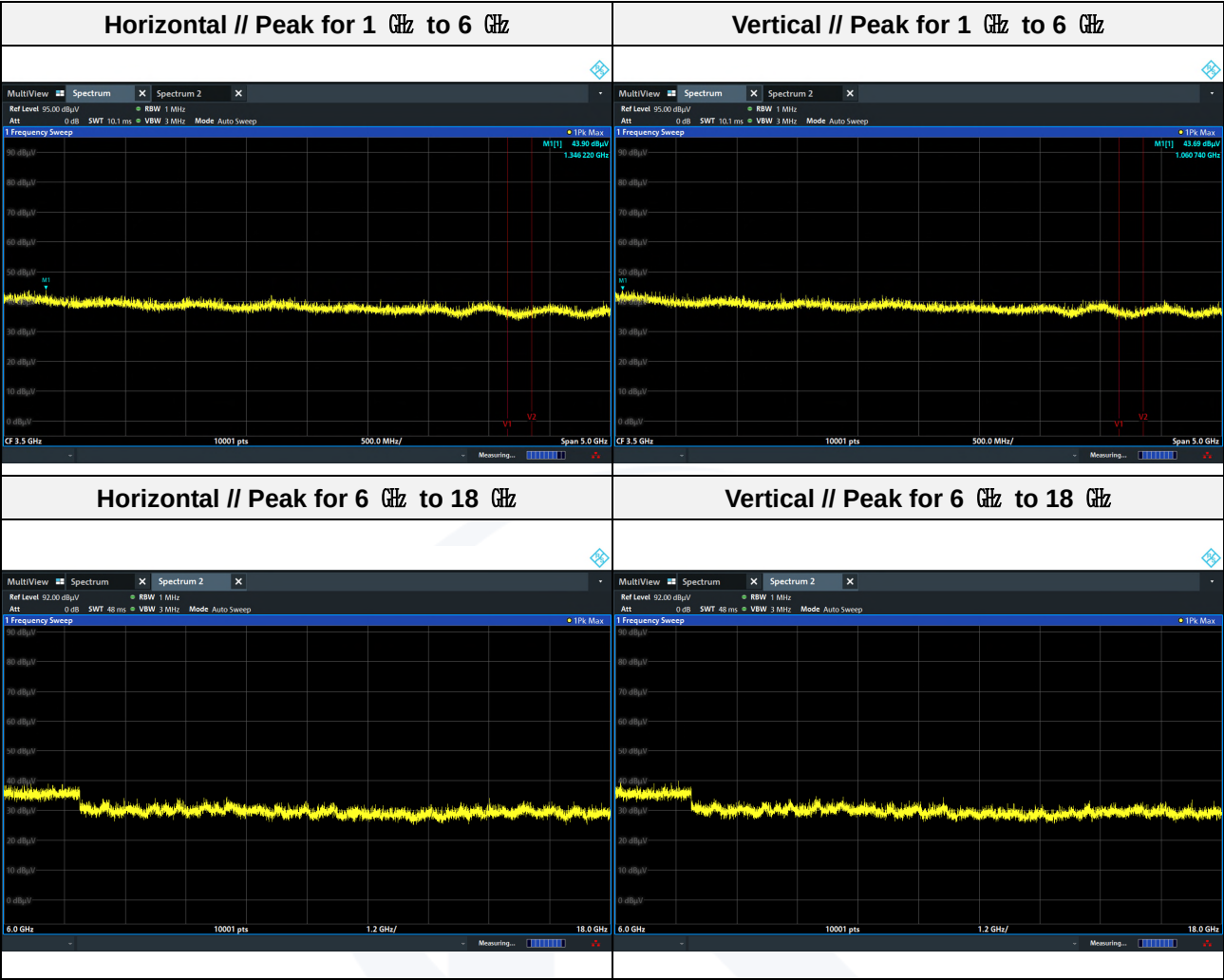
**- Spurious**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 1 060.74        | 43.69              | Peak        | V               | -7.78   | -        | 35.91                         | 74.00                | 38.09       |
| 1 346.22        | 43.90              | Peak        | H               | -5.89   | -        | 38.01                         | 74.00                | 35.99       |

**- Band edge**

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 5 149.37        | 54.66              | Peak        | V               | 7.54    | -        | 62.20                         | 74.00                | 11.80       |
| 5 149.37        | 40.81              | Average     | V               | 7.54    | 0.71     | 52.83                         | 54.00                | 1.17        |
| 5 149.84        | 52.33              | Peak        | H               | 7.54    | -        | 59.87                         | 74.00                | 14.13       |
| 5 149.84        | 38.52              | Average     | H               | 7.54    | 0.71     | 50.54                         | 54.00                | 3.46        |





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



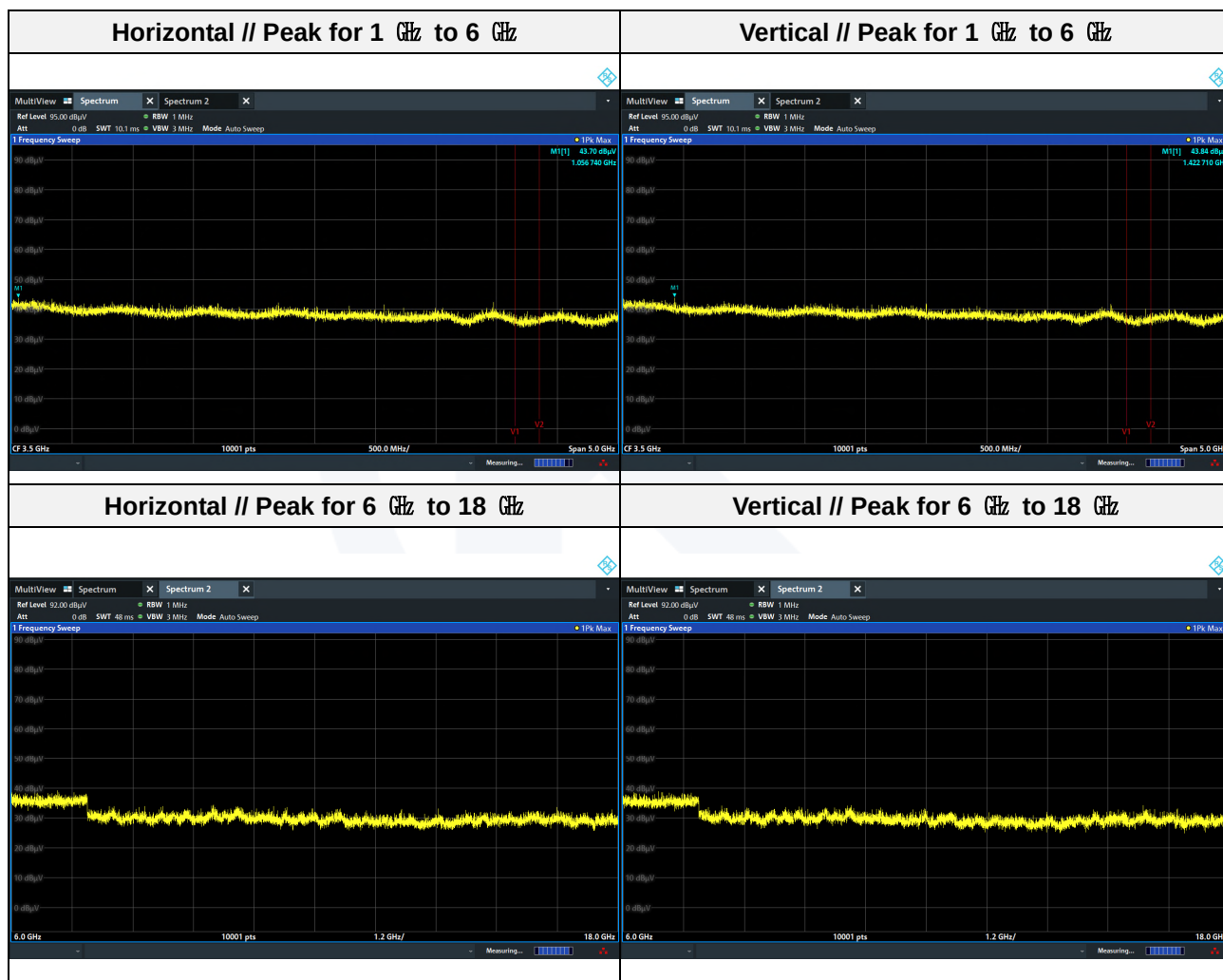
Mode: DC 24 V\_802.11ac\_VHT40 (MCS0)

Distance of measurement: 3 meter

Channel: 46

## - Spurious

| Frequency (MHz) | Level (dB $\mu$ V) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|--------------------|-------------|-----------------|---------|----------|-------------------------------|----------------------|-------------|
| 1 056.74        | 43.70              | Peak        | H               | -7.81   | -        | 35.89                         | 74.00                | 38.11       |
| 1 422.71        | 43.84              | Peak        | V               | -5.38   | -        | 38.46                         | 74.00                | 35.54       |



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 12 V\_802.11ac\_VHT80 (MCS0)

Distance of measurement: 3 meter

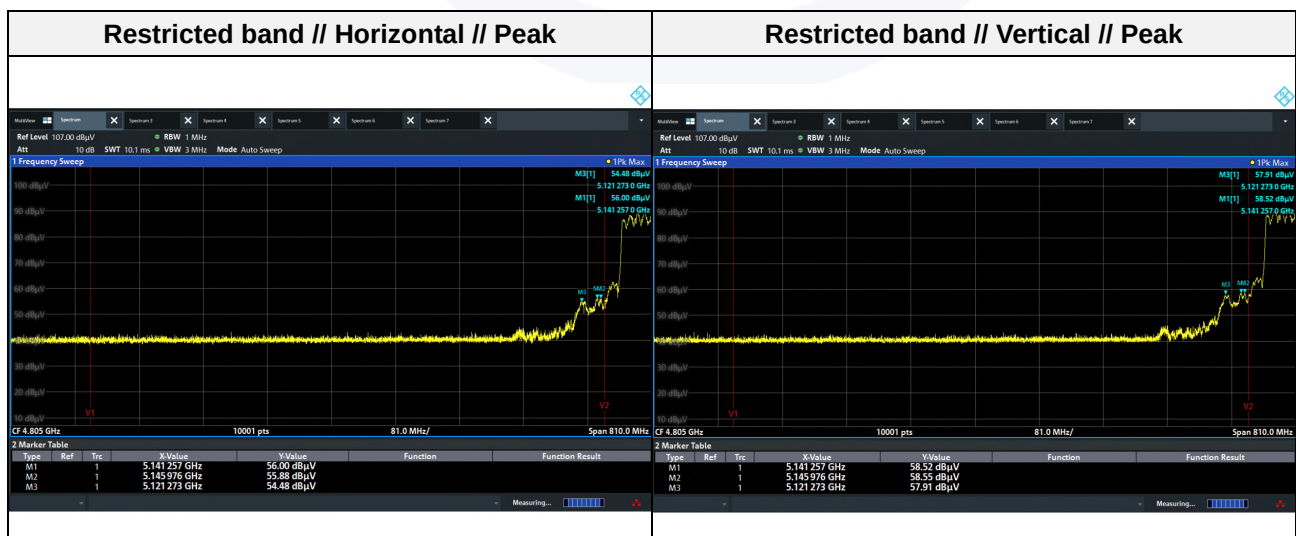
Channel: 42

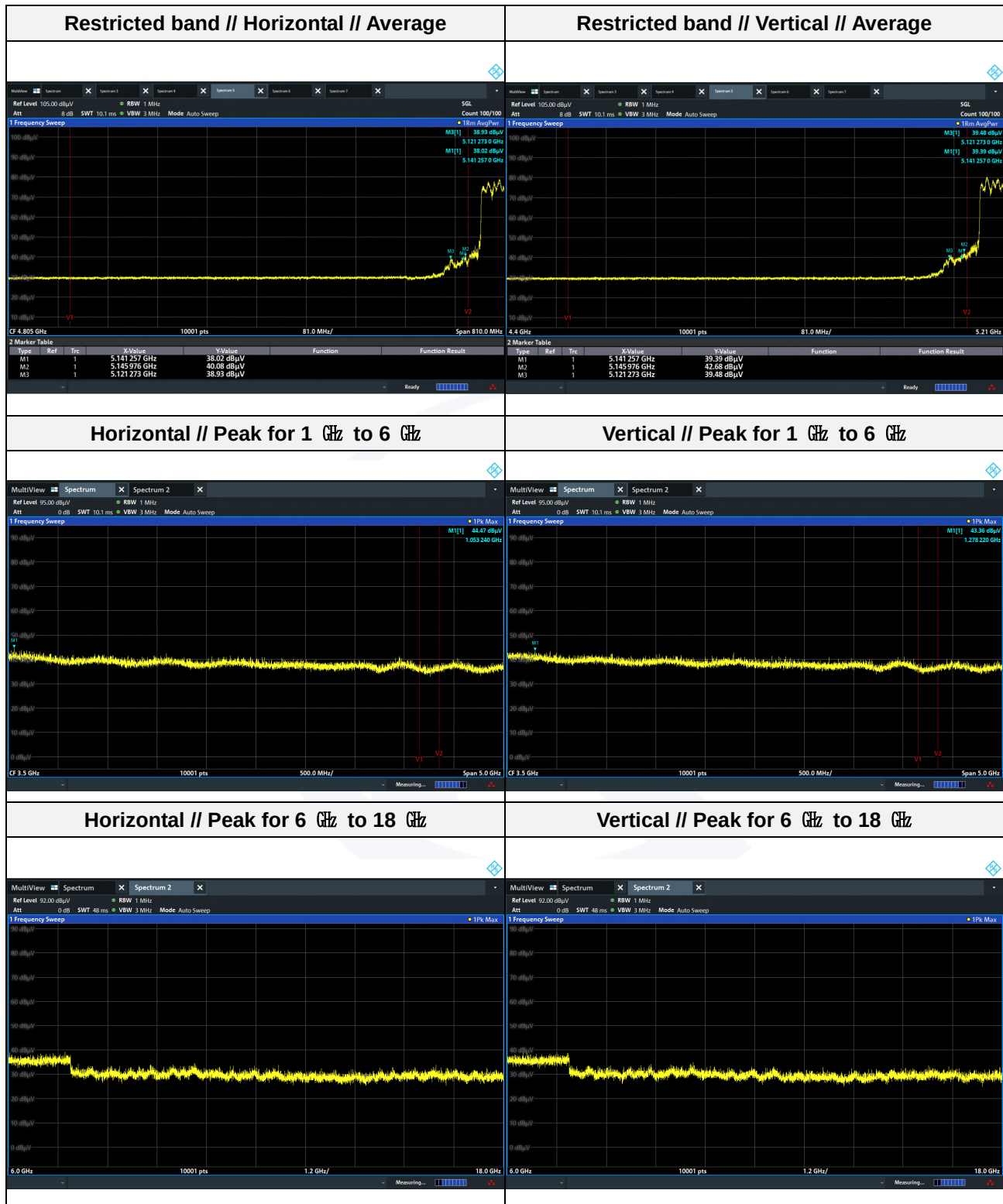
## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 053.24        | 44.47        | Peak        | H               | -7.83   | -        | 36.64                   | 74.00          | 37.36       |
| 1 278.22        | 43.36        | Peak        | V               | -6.39   | -        | 36.97                   | 68.23          | 31.26       |

## - Band edge

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 5 121.27        | 54.48        | Peak        | H               | 7.48    | -        | 61.96                   | 74.00          | 12.04       |
| 5 121.27        | 38.93        | Average     | H               | 7.48    | 1.14     | 47.55                   | 54.00          | 6.45        |
| 5 121.27        | 57.91        | Peak        | V               | 7.48    | -        | 65.39                   | 74.00          | 8.61        |
| 5 121.27        | 39.48        | Average     | V               | 7.48    | 1.14     | 48.10                   | 54.00          | 5.90        |
| 5 141.26        | 56.00        | Peak        | H               | 7.52    | -        | 63.52                   | 74.00          | 10.48       |
| 5 141.26        | 38.02        | Average     | H               | 7.52    | 1.14     | 46.68                   | 54.00          | 7.32        |
| 5 141.26        | 58.52        | Peak        | V               | 7.52    | -        | 66.04                   | 74.00          | 7.96        |
| 5 141.26        | 39.39        | Average     | V               | 7.52    | 1.14     | 48.05                   | 54.00          | 5.95        |
| 5 145.98        | 55.88        | Peak        | H               | 7.53    | -        | 63.41                   | 74.00          | 10.59       |
| 5 145.98        | 38.93        | Average     | H               | 7.53    | 1.14     | 47.60                   | 54.00          | 6.40        |
| 5 145.98        | 58.55        | Peak        | V               | 7.53    | -        | 66.08                   | 74.00          | 7.92        |
| 5 145.98        | 42.68        | Average     | V               | 7.53    | 1.14     | 51.35                   | 54.00          | 2.65        |





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: DC 24 V\_802.11ac\_VHT80 (MCS0)

Distance of measurement: 3 meter

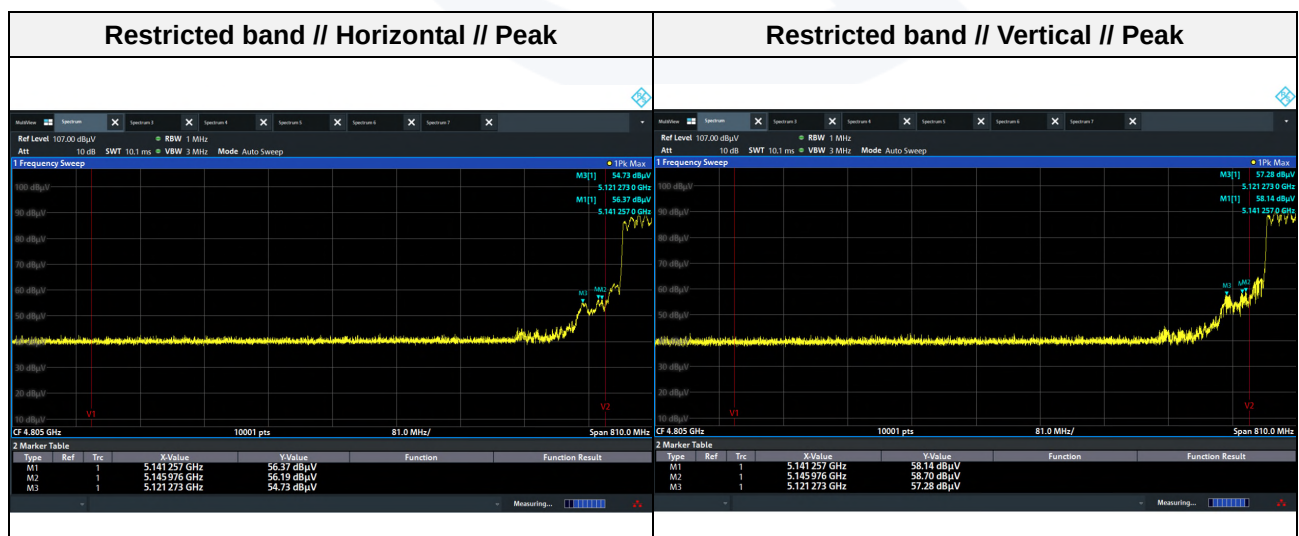
Channel: 42

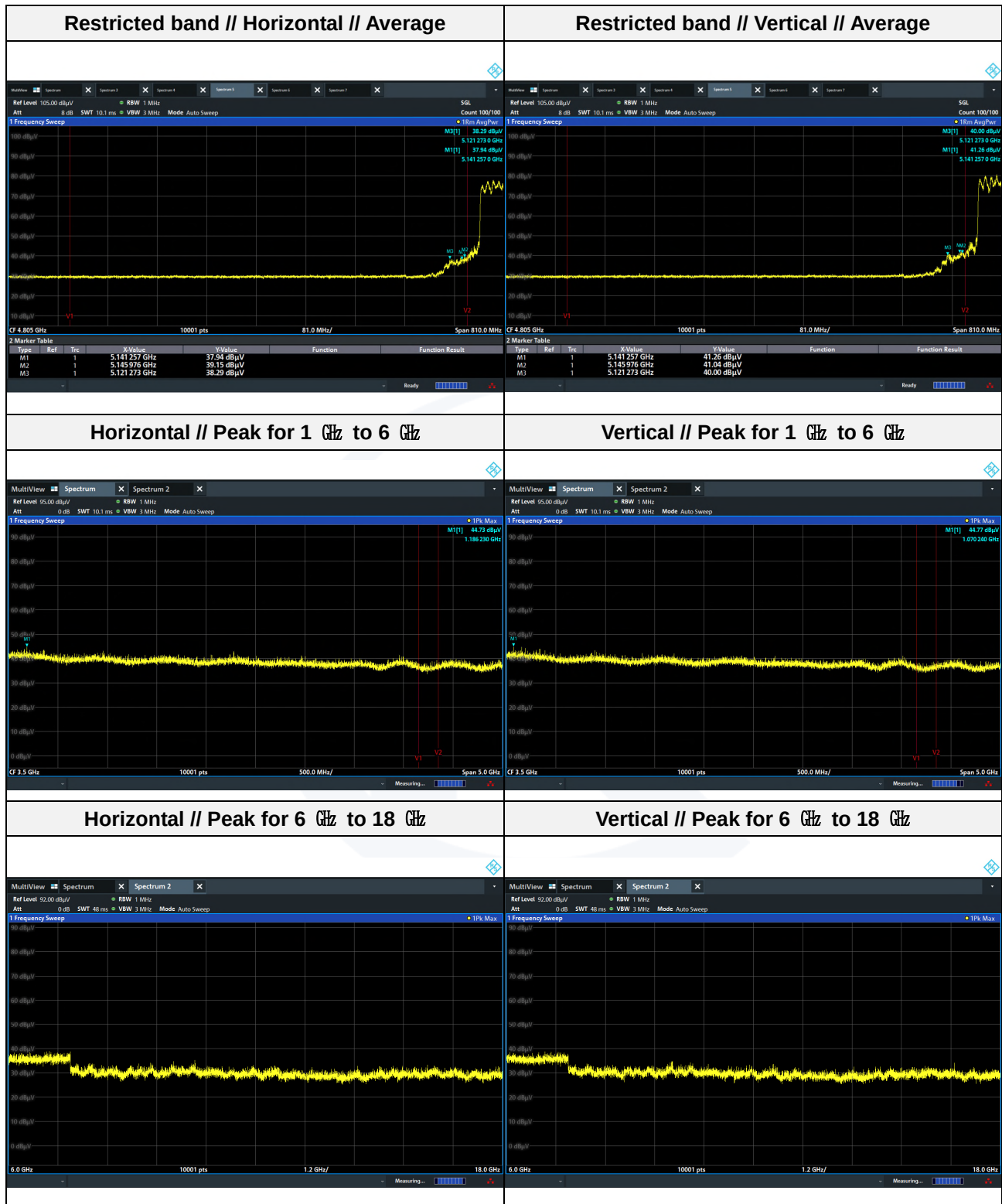
## - Spurious

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 1 070.24        | 44.77        | Peak        | V               | -7.73   | -        | 37.04                   | 74.00          | 36.96       |
| 1 186.23        | 44.73        | Peak        | H               | -7.04   | -        | 37.69                   | 74.00          | 36.31       |

## - Band edge

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 5 121.27        | 54.73        | Peak        | H               | 7.48    | -        | 62.21                   | 74.00          | 11.79       |
| 5 121.27        | 38.29        | Average     | H               | 7.48    | 1.14     | 46.91                   | 54.00          | 7.09        |
| 5 121.27        | 57.28        | Peak        | V               | 7.48    | -        | 64.76                   | 74.00          | 9.24        |
| 5 121.27        | 40.00        | Average     | V               | 7.48    | 1.14     | 48.62                   | 54.00          | 5.38        |
| 5 141.26        | 56.37        | Peak        | H               | 7.52    | -        | 63.89                   | 74.00          | 10.11       |
| 5 141.26        | 37.94        | Average     | H               | 7.52    | 1.14     | 46.60                   | 54.00          | 7.40        |
| 5 141.26        | 58.14        | Peak        | V               | 7.52    | -        | 65.66                   | 74.00          | 8.34        |
| 5 141.26        | 41.26        | Average     | V               | 7.52    | 1.14     | 49.92                   | 54.00          | 4.08        |
| 5 145.98        | 56.19        | Peak        | H               | 7.53    | -        | 63.72                   | 74.00          | 10.28       |
| 5 145.98        | 39.15        | Average     | H               | 7.53    | 1.14     | 47.82                   | 54.00          | 6.18        |
| 5 145.98        | 58.70        | Peak        | V               | 7.53    | -        | 66.23                   | 74.00          | 7.77        |
| 5 145.98        | 41.04        | Average     | V               | 7.53    | 1.14     | 49.71                   | 54.00          | 4.29        |



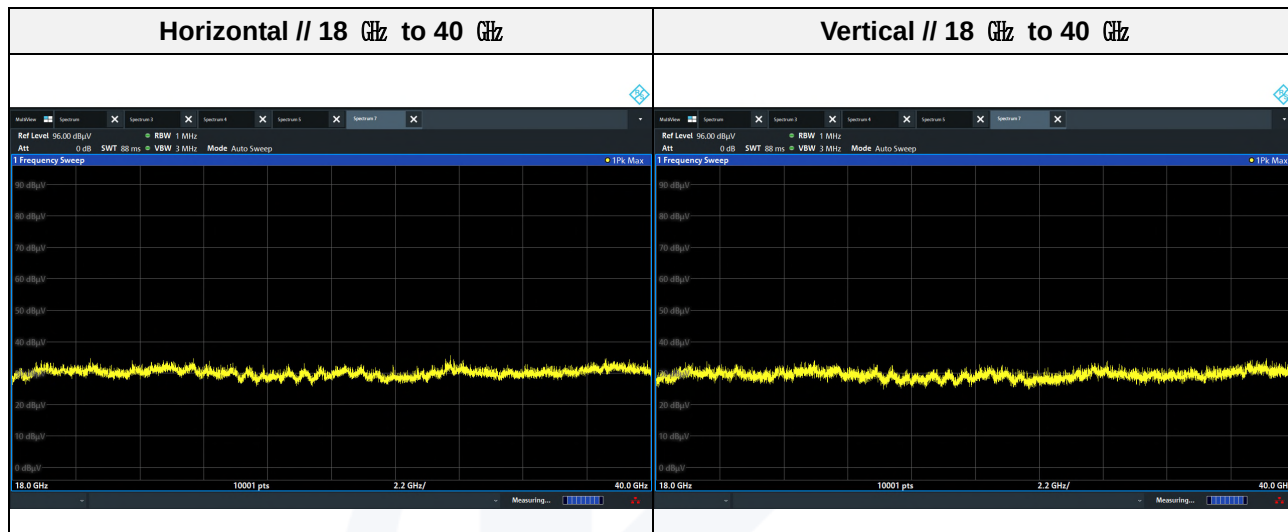


Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.

**Test results (18 GHz to 40 GHz)**

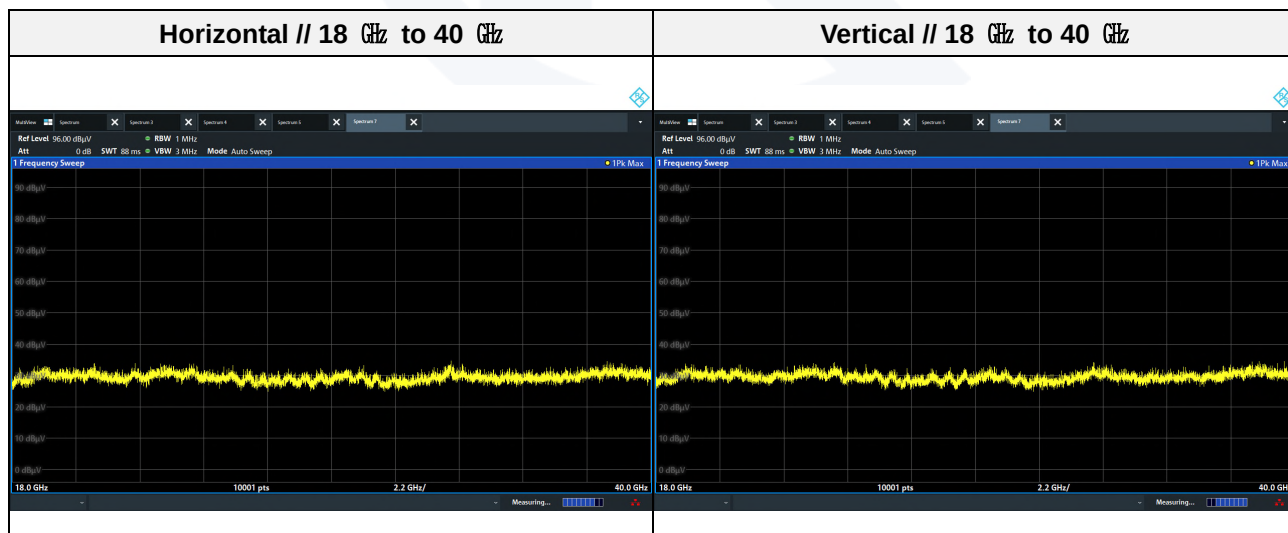
Band DC 12 V\_802.11n\_HT20 (MCS0) (Worst Case)  
Distance of measurement: 3 meter  
Channel 48 (Worst Case)



Note.

1. No spurious emission were detected above 18 GHz.

Band DC 24 V\_802.11n\_HT20 (MCS0) (Worst Case)  
Distance of measurement: 3 meter  
Channel 48 (Worst Case)



Note.

1. No spurious emission were detected above 18 GHz.



### 3.6. Antenna Requirement

According to 15.207(a), 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

**Appendix A. Measurement equipment**

| Equipment                | Manufacturer            | Model          | Serial No.   | Calibration interval | Calibration due.         |
|--------------------------|-------------------------|----------------|--------------|----------------------|--------------------------|
| Spectrum analyzer        | R&S                     | FSV40          | 101725       | 1 year               | 2026.06.10               |
| Spectrum analyzer        | R&S                     | FSV3030        | 101402       | 1 year               | 2026.08.19               |
| SIGNAL GENERATOR         | KEYSIGHT                | N5182B         | MY59100115   | 1 year               | 2026.04.16               |
| SIGNAL GENERATOR         | Anritsu                 | 68369B         | 002118       | 1 year               | 2026.04.21               |
| Power Meter              | Anritsu                 | ML2495A        | 2010001      | 1 year               | 2026.04.16               |
| Pulse Power Sensor       | Anritsu                 | MA2411B        | 1911111      | 1 year               | 2026.04.16               |
| Attenuator               | Mini-Circuits           | BW-S20-2W263A+ | Y1           | 1 year               | 2026.02.10               |
| BAND REJECT FILTER       | MICRO-TRONICS           | BRM50716       | G199         | 1 year               | 2026.01.08               |
| LOOP ANTENNA             | TESEQ                   | HLA6121        | 66547        | 2 years              | 2026.01.22               |
| TRILOG-BROADBAND ANTENNA | Schwarzbeck             | VULB 9163      | 714          | 2 years              | 2026.04.19               |
| Attenuator               | HUBER+SHHNER            | 6806.17.A      | NONE         | 1 year               | 2026.02.13               |
| Horn Antenna             | A.H.                    | SAS-571        | 414          | 1 year               | 2026.01.13               |
| Horn Antenna             | SCHWARZBECK             | BBHA9170       | BBHA 9170550 | 1 year               | 2026.01.13               |
| Amplifier                | SONOMA INSTRUMENT       | 310N           | 401123       | 1 year               | 2026.02.13               |
| PREAMPLIFIER             | HP                      | 8449B          | 3008A00899   | 1 year               | 2026.03.05               |
| BROADBAND AMPLIFIER      | SCHWARZBECK             | BBV9721        | PS9721-003   | 1 year               | 2026.01.09               |
| DC POWER SUPPLY          | SORENSEN                | DCS40-75E      | 1408A02745   | 1 year               | 2026.01.08               |
| EMI Test Receiver        | R&S                     | ESR7           | 101190       | 1 year               | 2026.04.30               |
| Cable                    | -                       | -              | #5           | 1 year               | 2025.11.01<br>2026.10.31 |
| Cable (SAC #5)           | SUCOFLEX106             | HUBER SUHNER   | -            | 0.5 year             | 2026.01.25               |
|                          | SUCOFLEX106             | HUBER SUHNER   | -            |                      |                          |
|                          | LH21D/2xSMA             | OSI Cable      | -            |                      |                          |
| Cable (SAC #6)           | TCLH21D-SMSM-2.5M 0222  | OSI Cable      | -            | 0.5 year             | 2026.01.25               |
|                          | TCLH21D-NMNM-10.0M 0222 | OSI Cable      | -            |                      |                          |
|                          | TCLH21D-SMSM-7.0M 0222  | OSI Cable      | -            |                      |                          |

\* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Peripheral devices**

| Device            | Manufacturer         | Model No. | Serial No.    |
|-------------------|----------------------|-----------|---------------|
| Notebook computer | LG Electronics Inc., | LGS53     | 306QCZP560949 |

**The End.**