



## 9.6. AC Power Line Conducted Emission

### Requirements

| Frequency (MHz) | Conducted limit (dBμV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30        | 60                     | 50      |

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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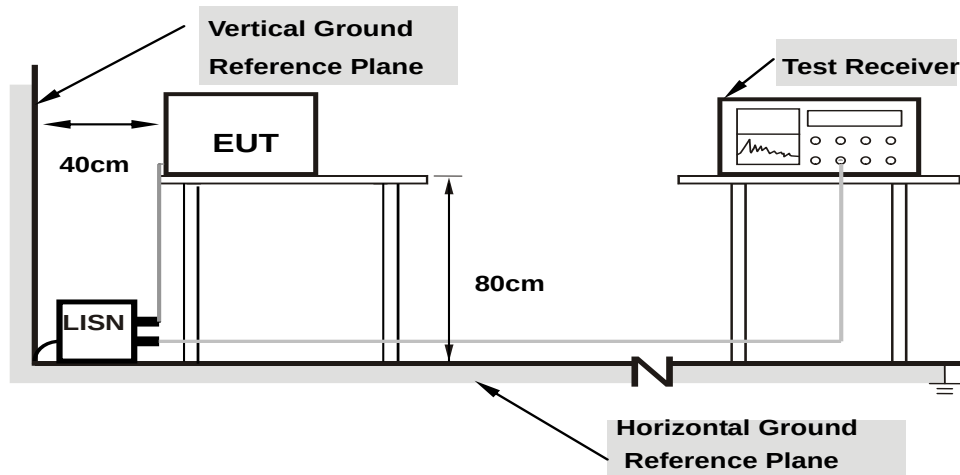
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## Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the Setup Configurations.

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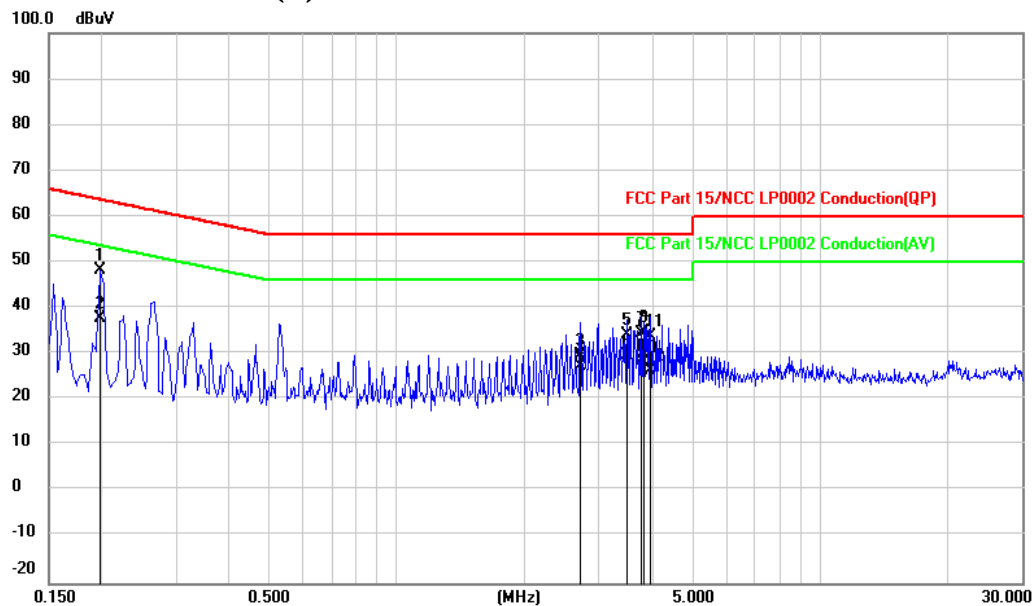
## Test Data

### Non-Beamforming mode

#### 802.11b

| EUT Test Condition |           | Measurement Detail |                  |
|--------------------|-----------|--------------------|------------------|
| Channel            | Channel 1 | Frequency Range    | 150 kHz ~ 30 MHz |

### Phase of Power : Line (L)



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| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV)  | dB      | (dBuV) | (dBuV) | (dB)   |        |
| 1   | 0.1980    | 28.79   | 19.53   | 48.32  | 63.69  | -15.37 | QP     |
| 2   | 0.1980    | 18.35   | 19.53   | 37.88  | 53.69  | -15.81 | AVG    |
| 3   | 2.7100    | 10.01   | 19.56   | 29.57  | 56.00  | -26.43 | QP     |
| 4   | 2.7100    | 7.61    | 19.56   | 27.17  | 46.00  | -18.83 | AVG    |
| 5   | 3.5020    | 14.52   | 19.57   | 34.09  | 56.00  | -21.91 | QP     |
| 6   | 3.5020    | 10.21   | 19.57   | 29.78  | 46.00  | -16.22 | AVG    |
| 7   | 3.7660    | 14.88   | 19.58   | 34.46  | 56.00  | -21.54 | QP     |
| 8   | 3.7660    | 8.81    | 19.58   | 28.39  | 46.00  | -17.61 | AVG    |
| 9   | 3.8300    | 15.30   | 19.58   | 34.88  | 56.00  | -21.12 | QP     |
| 10  | 3.8300    | 8.59    | 19.58   | 28.17  | 46.00  | -17.83 | AVG    |
| 11  | 3.9660    | 14.26   | 19.58   | 33.84  | 56.00  | -22.16 | QP     |
| 12  | 3.9660    | 6.79    | 19.58   | 26.37  | 46.00  | -19.63 | AVG    |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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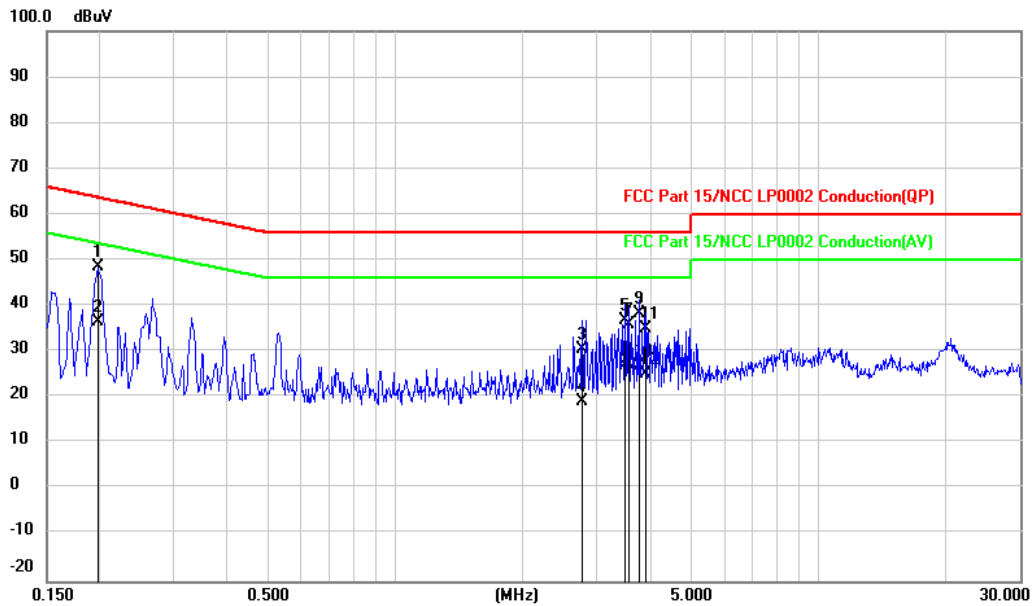
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### Phase of Power : Neutral (N)



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| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV)  | dB      | (dBuV) | (dBuV) | (dB)   |        |
| 1   | 0.1980    | 29.12   | 19.53   | 48.65  | 63.69  | -15.04 | QP     |
| 2   | 0.1980    | 17.14   | 19.53   | 36.67  | 53.69  | -17.02 | AVG    |
| 3   | 2.7740    | 10.96   | 19.56   | 30.52  | 56.00  | -25.48 | QP     |
| 4   | 2.7740    | -0.32   | 19.56   | 19.24  | 46.00  | -26.76 | AVG    |
| 5   | 3.5020    | 17.40   | 19.56   | 36.96  | 56.00  | -19.04 | QP     |
| 6   | 3.5020    | 7.46    | 19.56   | 27.02  | 46.00  | -18.98 | AVG    |
| 7   | 3.5660    | 16.38   | 19.58   | 35.96  | 56.00  | -20.04 | QP     |
| 8   | 3.5660    | 7.67    | 19.58   | 27.25  | 46.00  | -18.75 | AVG    |
| 9   | 3.7660    | 18.80   | 19.58   | 38.38  | 56.00  | -17.62 | QP     |
| 10  | 3.7660    | 7.43    | 19.58   | 27.01  | 46.00  | -18.99 | AVG    |
| 11  | 3.9020    | 15.39   | 19.58   | 34.97  | 56.00  | -21.03 | QP     |
| 12  | 3.9020    | 5.48    | 19.58   | 25.06  | 46.00  | -20.94 | AVG    |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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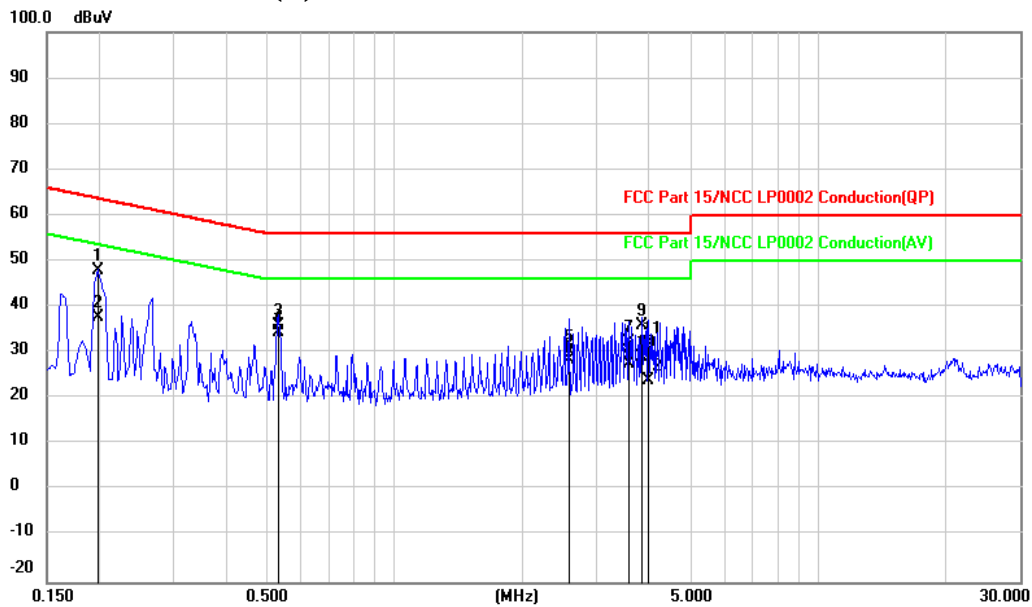


## Beamforming mode

### 802.11ax (HE20)

| EUT Test Condition |           | Measurement Detail |                  |
|--------------------|-----------|--------------------|------------------|
| Channel            | Channel 1 | Frequency Range    | 150 kHz ~ 30 MHz |

### Phase of Power : Line (L)



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| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV)  | dB      | (dBuV) | (dBuV) | (dB)   |        |
| 1   | 0.1980    | 28.51   | 19.53   | 48.04  | 63.69  | -15.65 | QP     |
| 2   | 0.1980    | 18.14   | 19.53   | 37.67  | 53.69  | -16.02 | AVG    |
| 3   | 0.5299    | 16.41   | 19.52   | 35.93  | 56.00  | -20.07 | QP     |
| 4   | 0.5299    | 14.97   | 19.52   | 34.49  | 46.00  | -11.51 | AVG    |
| 5   | 2.5780    | 10.83   | 19.56   | 30.39  | 56.00  | -25.61 | QP     |
| 6   | 2.5780    | 8.90    | 19.56   | 28.46  | 46.00  | -17.54 | AVG    |
| 7   | 3.5660    | 12.63   | 19.58   | 32.21  | 56.00  | -23.79 | QP     |
| 8   | 3.5660    | 7.91    | 19.58   | 27.49  | 46.00  | -18.51 | AVG    |
| 9   | 3.8340    | 16.40   | 19.58   | 35.98  | 56.00  | -20.02 | QP     |
| 10  | 3.8340    | 9.47    | 19.58   | 29.05  | 46.00  | -16.95 | AVG    |
| 11  | 3.9700    | 12.33   | 19.58   | 31.91  | 56.00  | -24.09 | QP     |
| 12  | 3.9700    | 4.39    | 19.58   | 23.97  | 46.00  | -22.03 | AVG    |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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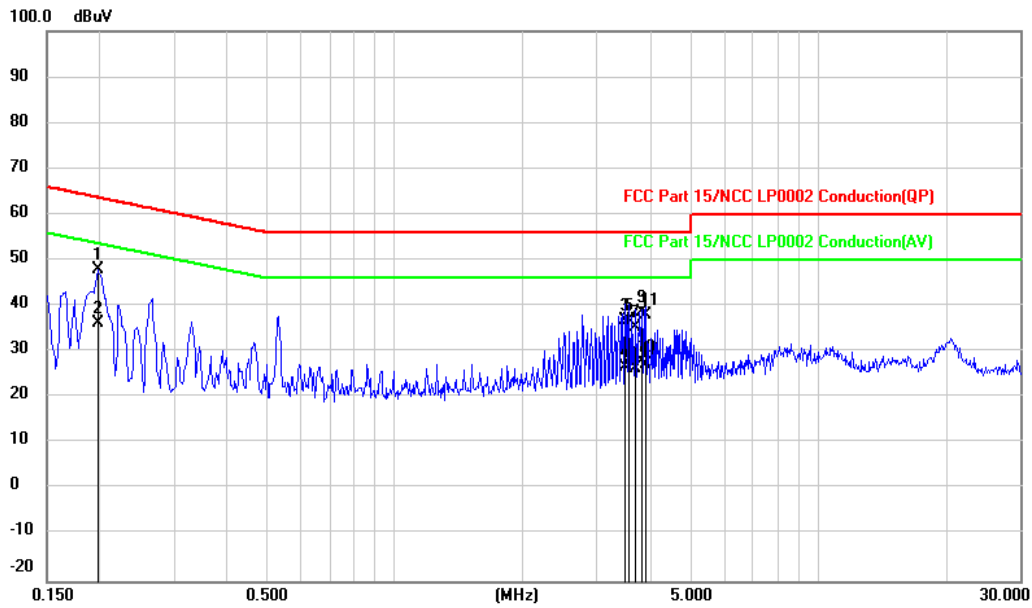
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### Phase of Power : Neutral (N)



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| No. | Frequency | Reading | Correct | Result | Limit  | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
|     | (MHz)     | (dBuV)  | dB      | (dBuV) | (dBuV) | (dB)   |        |
| 1   | 0.1980    | 28.47   | 19.53   | 48.00  | 63.69  | -15.69 | QP     |
| 2   | 0.1980    | 16.79   | 19.53   | 36.32  | 53.69  | -17.37 | AVG    |
| 3   | 3.5020    | 17.43   | 19.56   | 36.99  | 56.00  | -19.01 | QP     |
| 4   | 3.5020    | 7.00    | 19.56   | 26.56  | 46.00  | -19.44 | AVG    |
| 5   | 3.5700    | 17.38   | 19.58   | 36.96  | 56.00  | -19.04 | QP     |
| 6   | 3.5700    | 8.44    | 19.58   | 28.02  | 46.00  | -17.98 | AVG    |
| 7   | 3.7020    | 15.77   | 19.58   | 35.35  | 56.00  | -20.65 | QP     |
| 8   | 3.7020    | 6.85    | 19.58   | 26.43  | 46.00  | -19.57 | AVG    |
| 9   | 3.8340    | 19.03   | 19.58   | 38.61  | 56.00  | -17.39 | QP     |
| 10  | 3.8340    | 8.40    | 19.58   | 27.98  | 46.00  | -18.02 | AVG    |
| 11  | 3.9020    | 18.37   | 19.58   | 37.95  | 56.00  | -18.05 | QP     |
| 12  | 3.9020    | 7.73    | 19.58   | 27.31  | 46.00  | -18.69 | AVG    |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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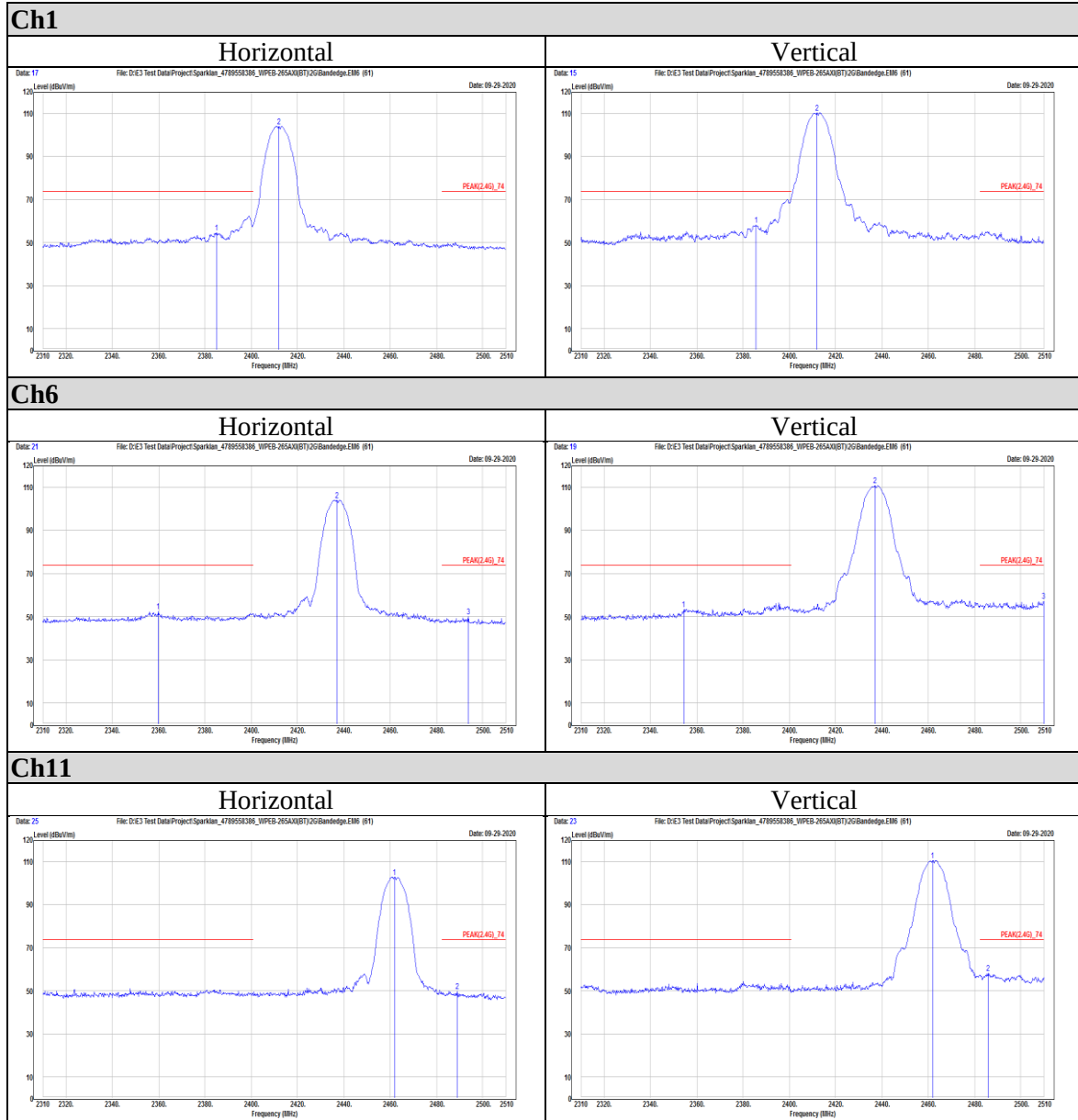


## Appendix I Radiated Band Edge Measurement

### Non-Beamforming mode

802.11b

#### Peak



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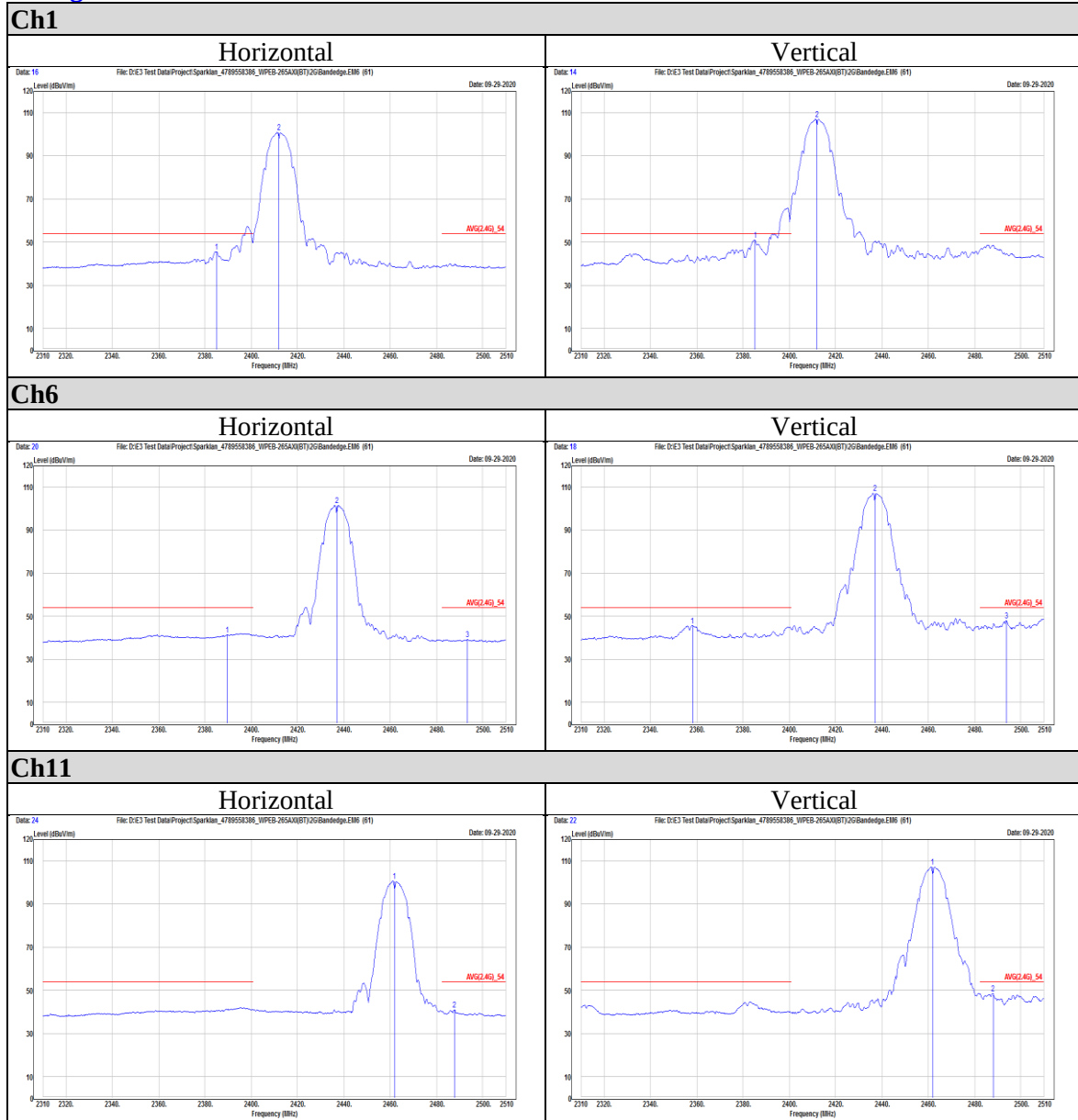
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## Average



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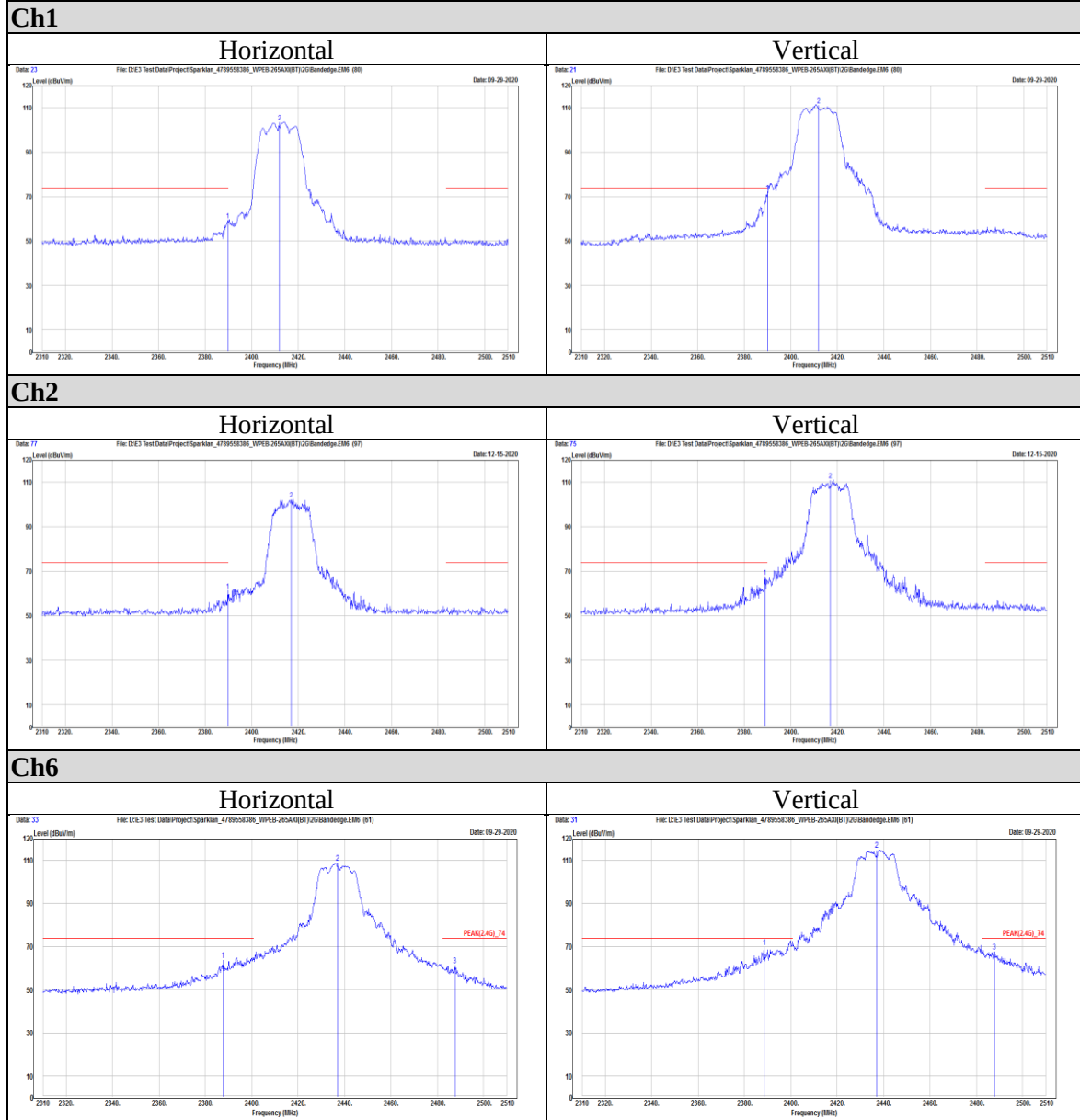
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802.11g

Peak



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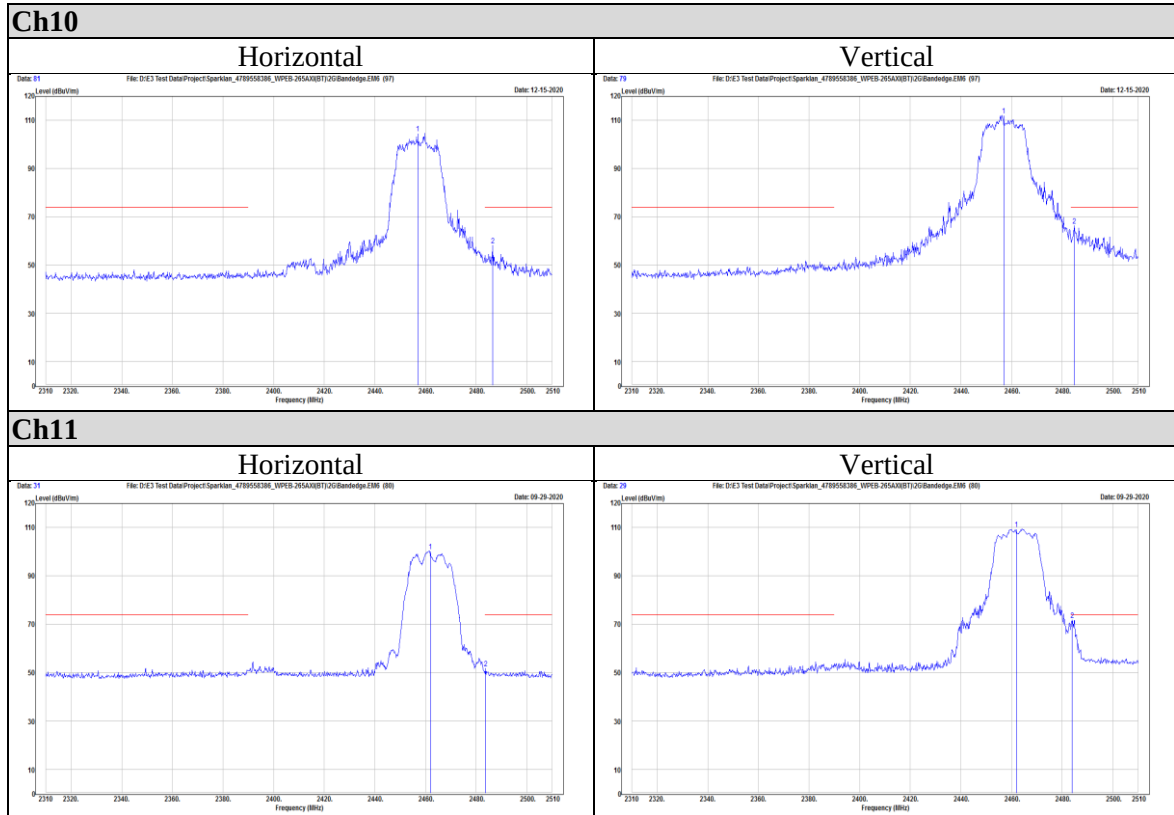
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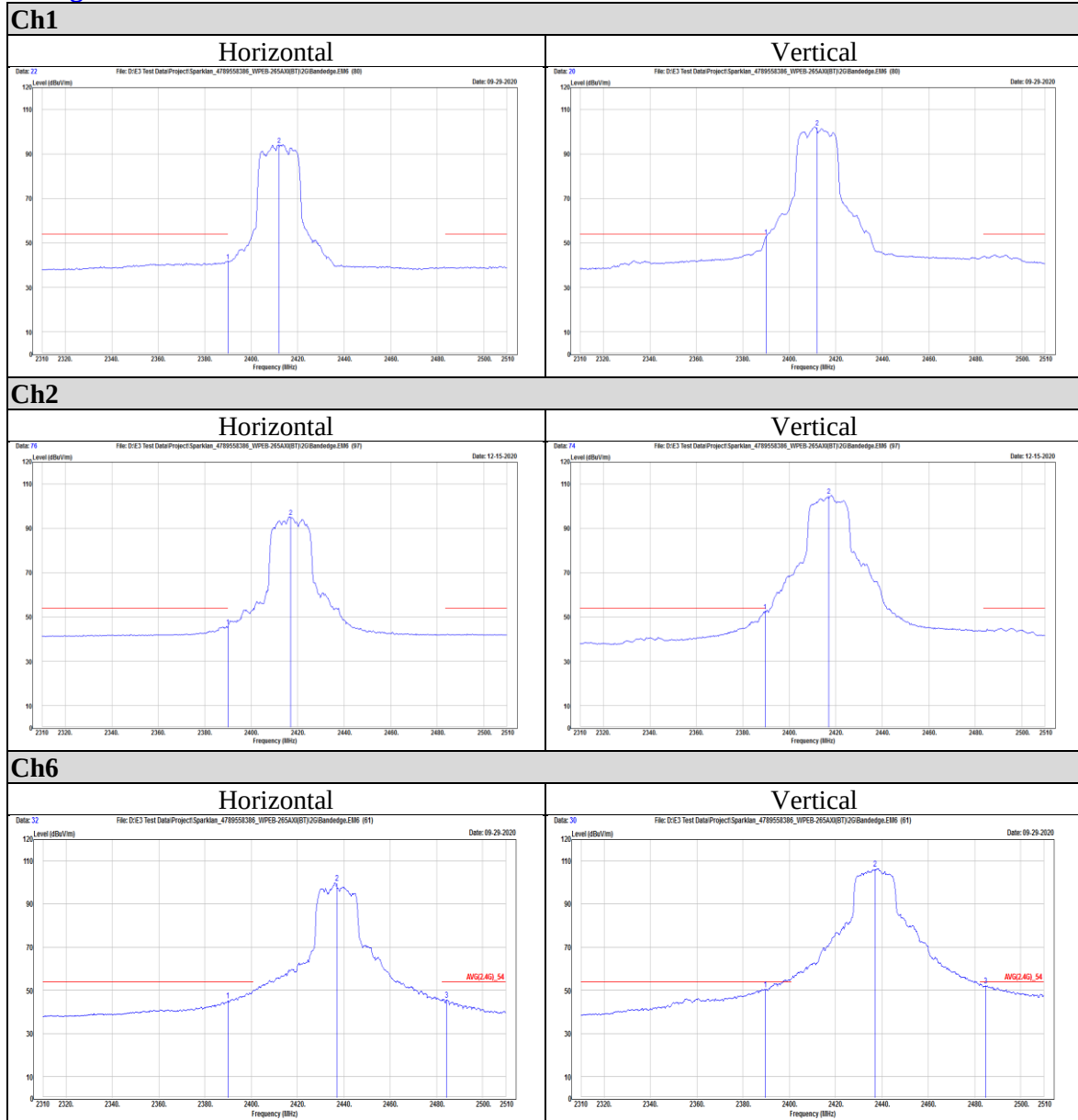
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## Average



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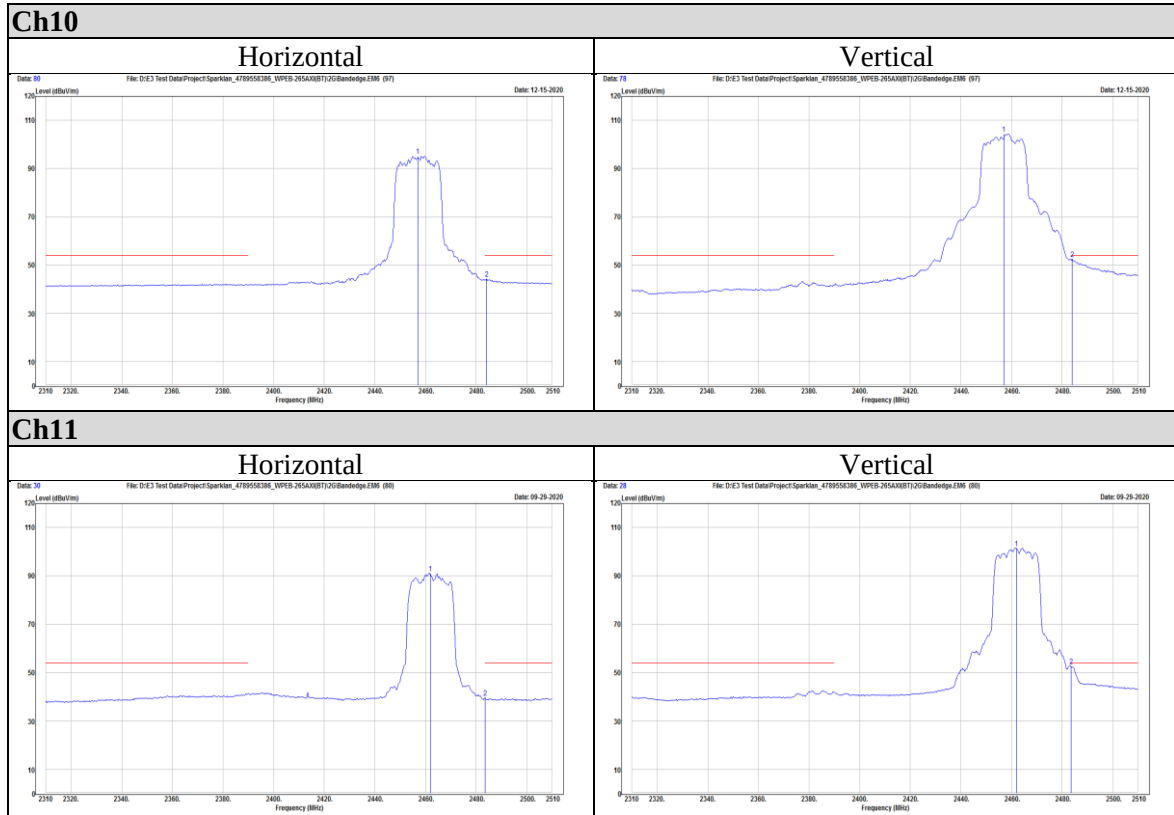
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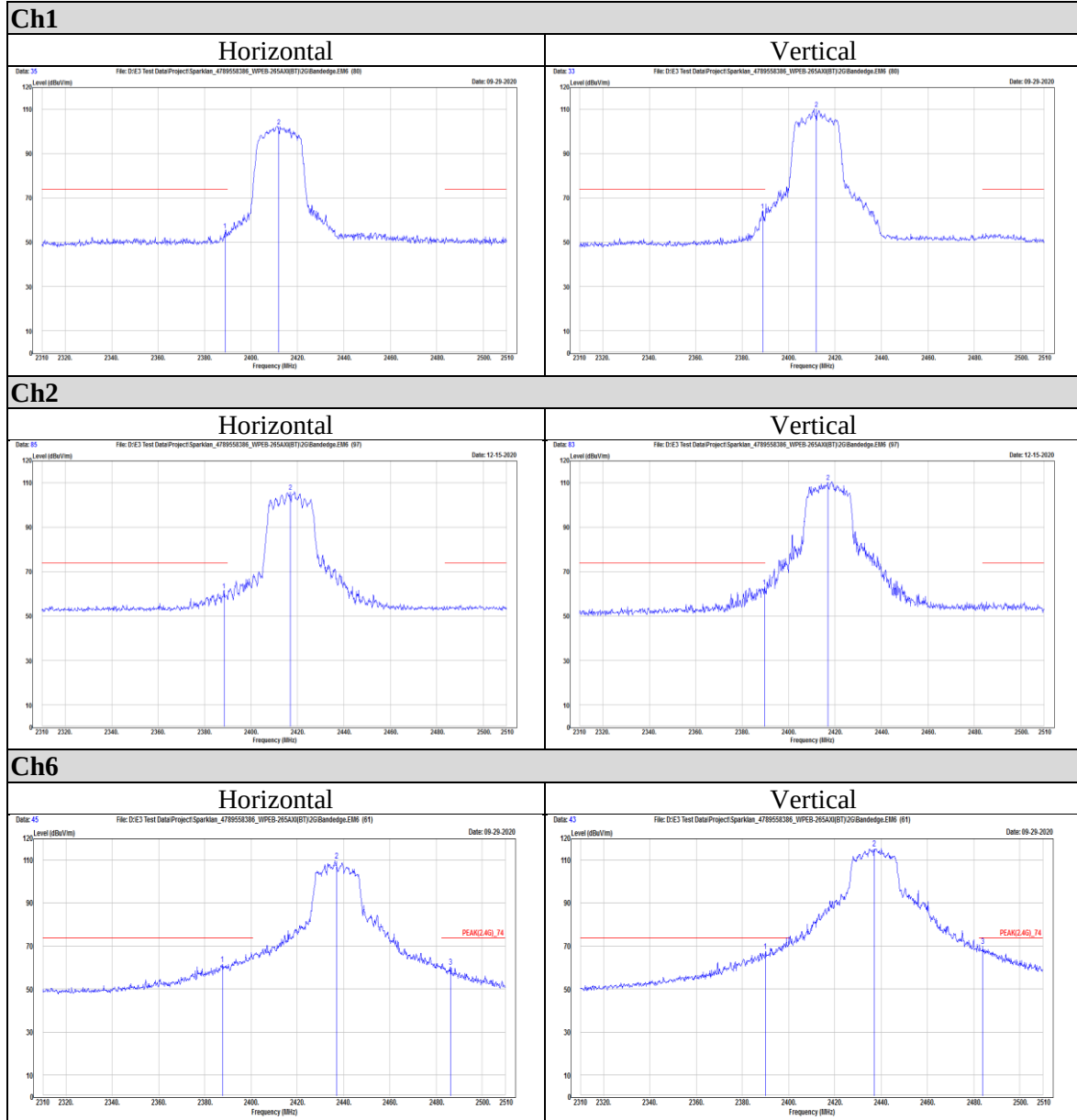




## 802.11ax (HE20)

### OFDM

#### Peak



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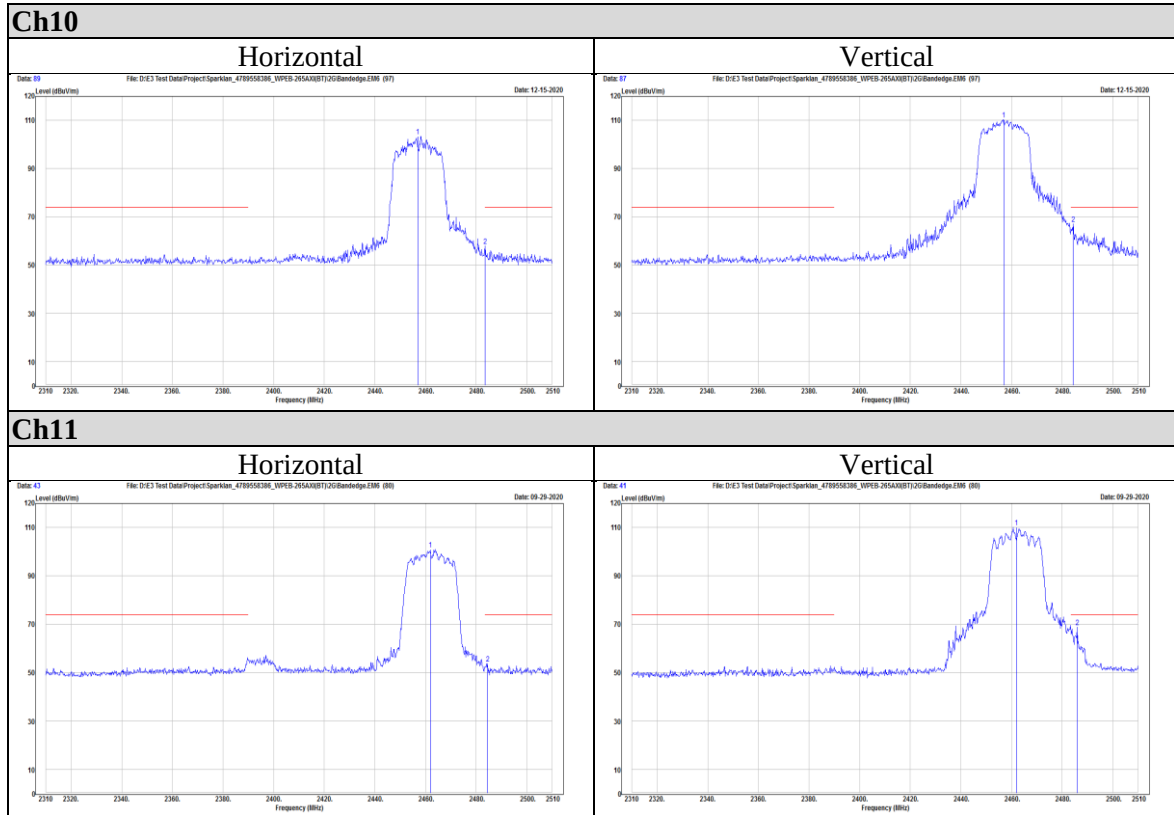
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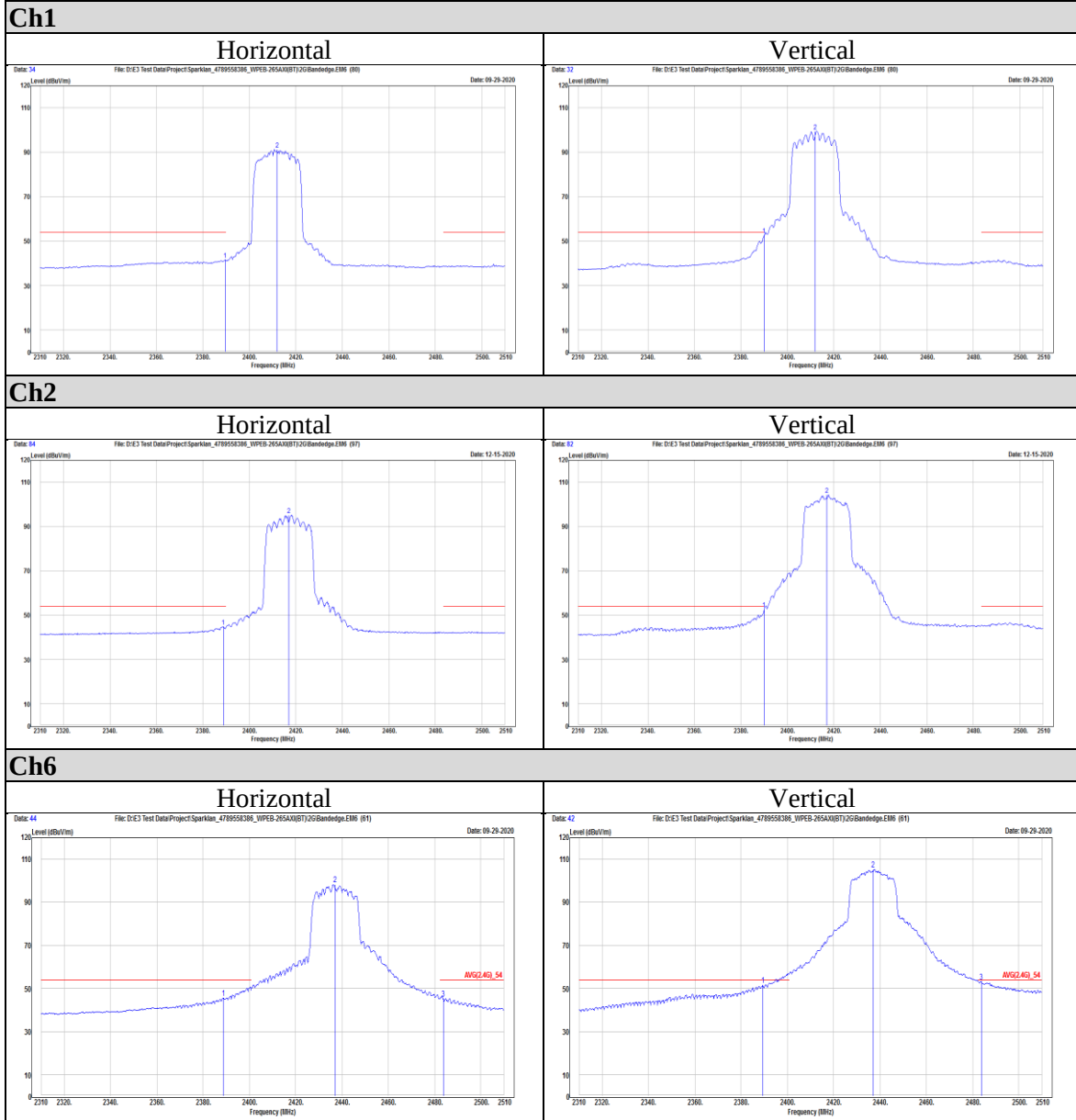
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## Average



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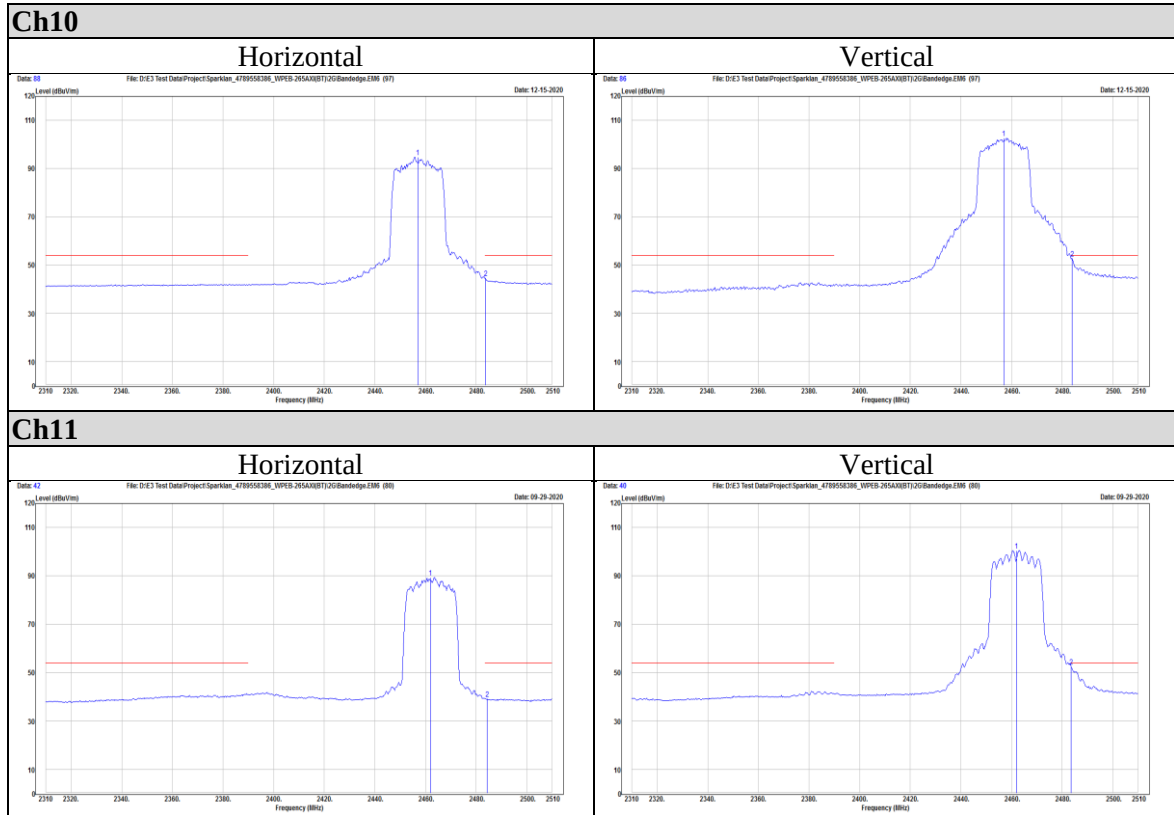
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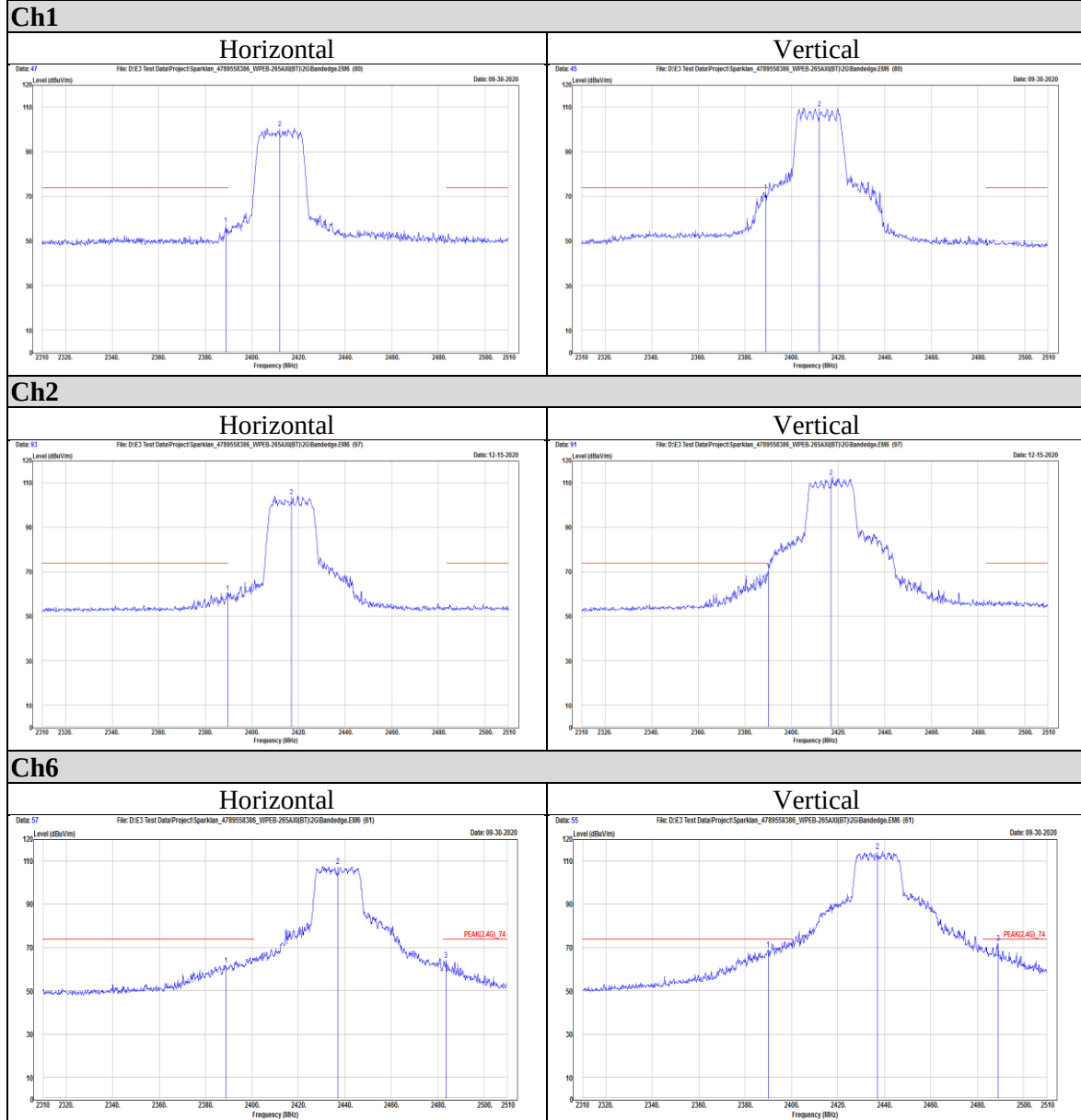
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## OFDMA

### Peak



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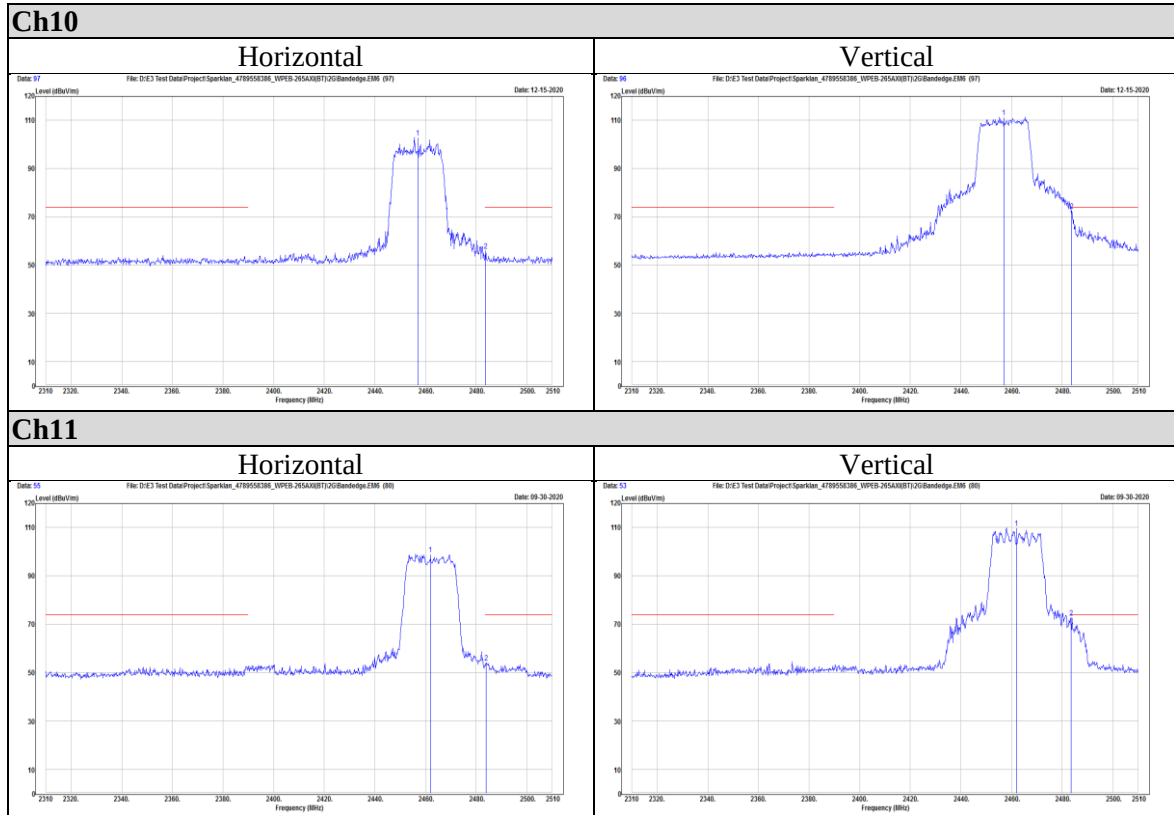
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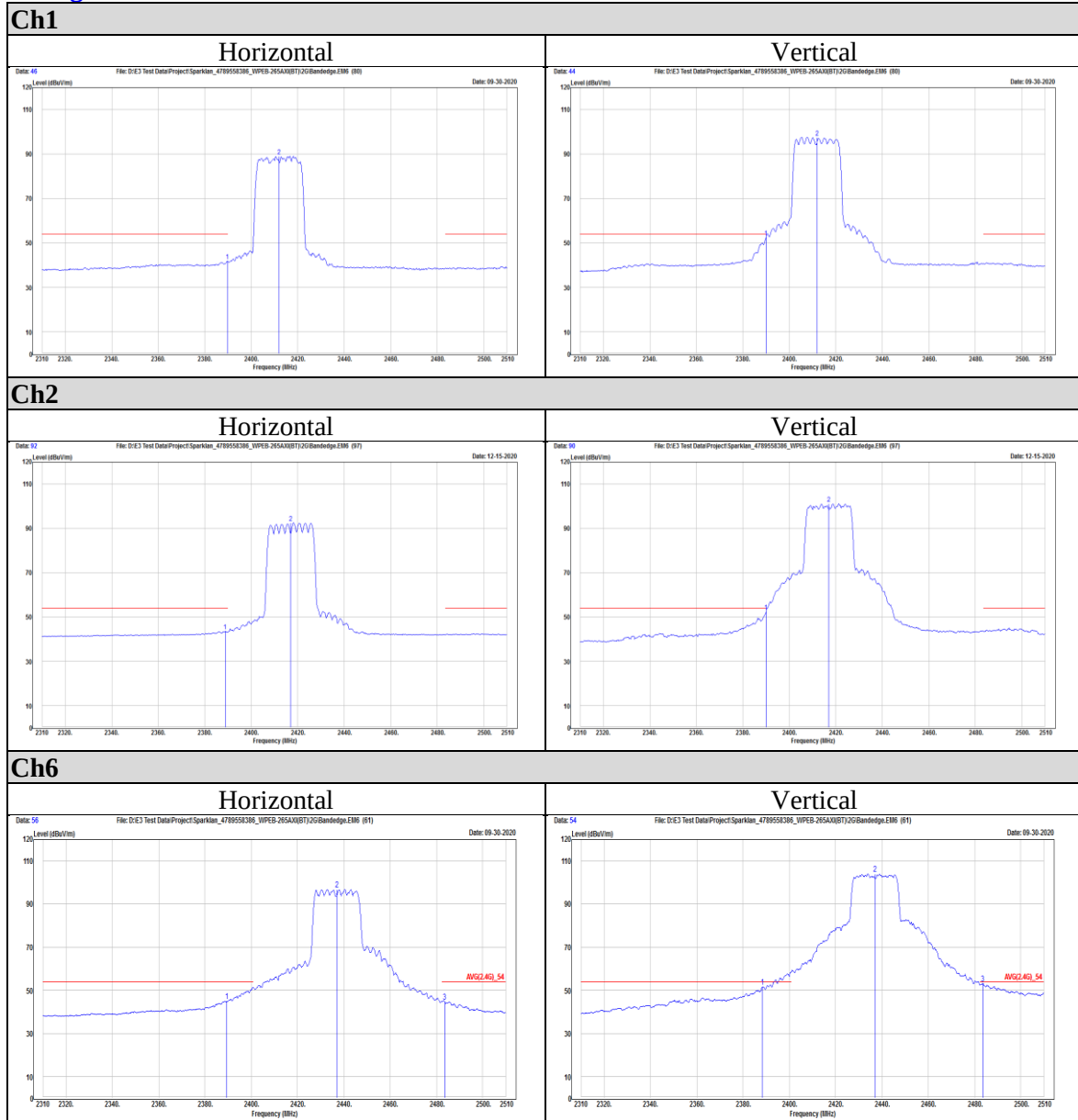
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## Average



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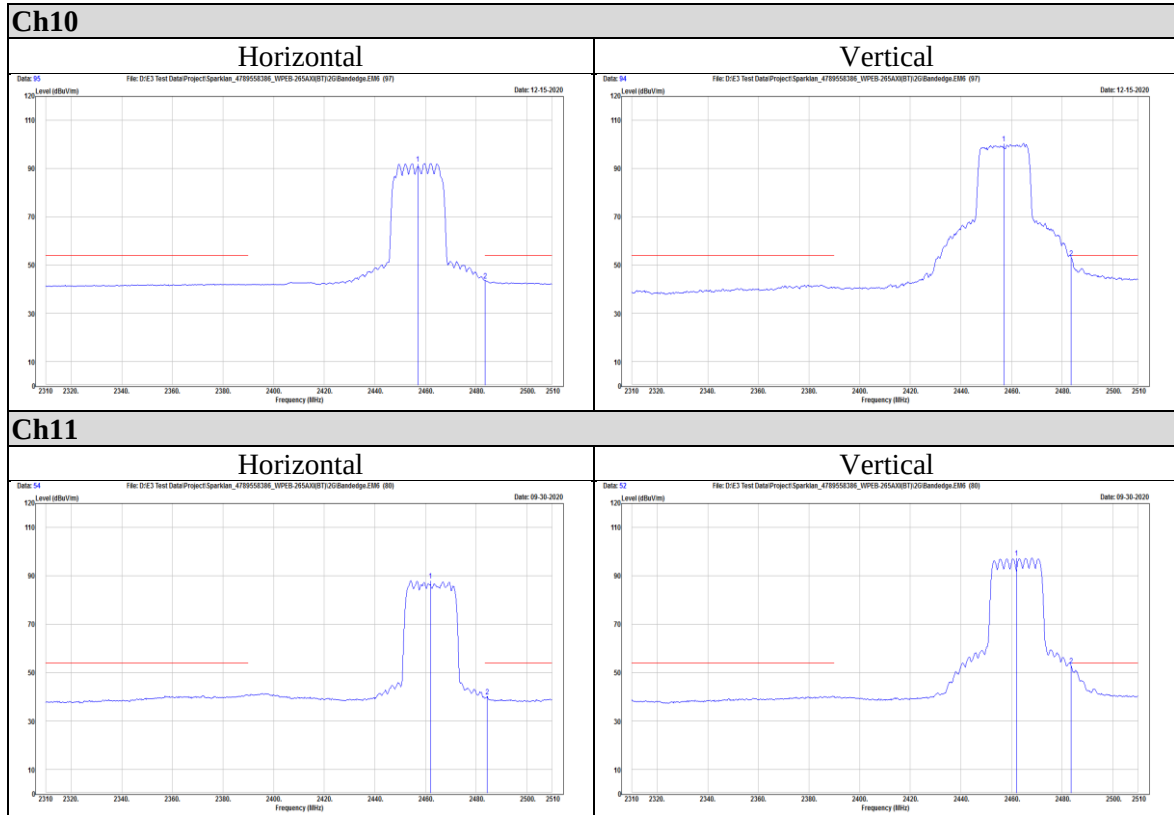
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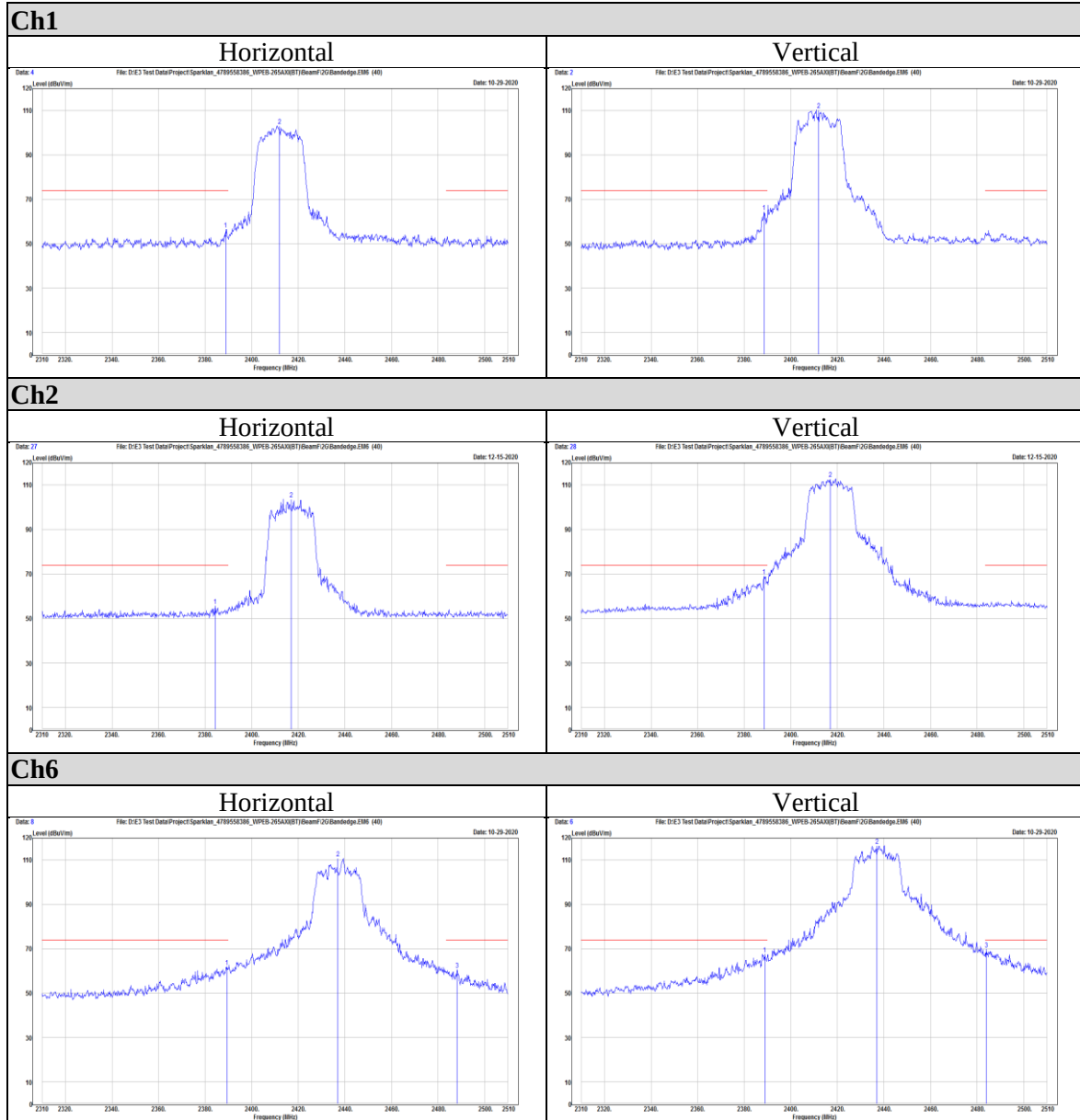


## Beamforming mode

### 802.11ax (HE20)

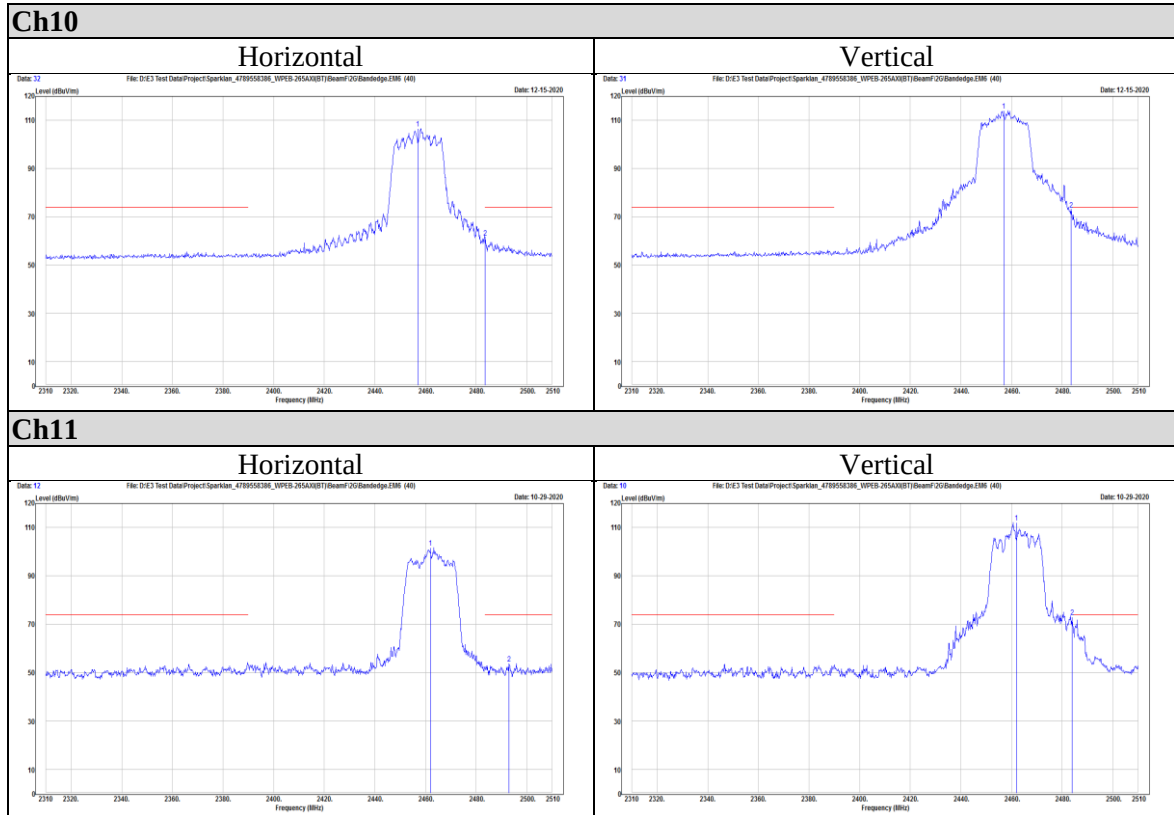
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##### Peak





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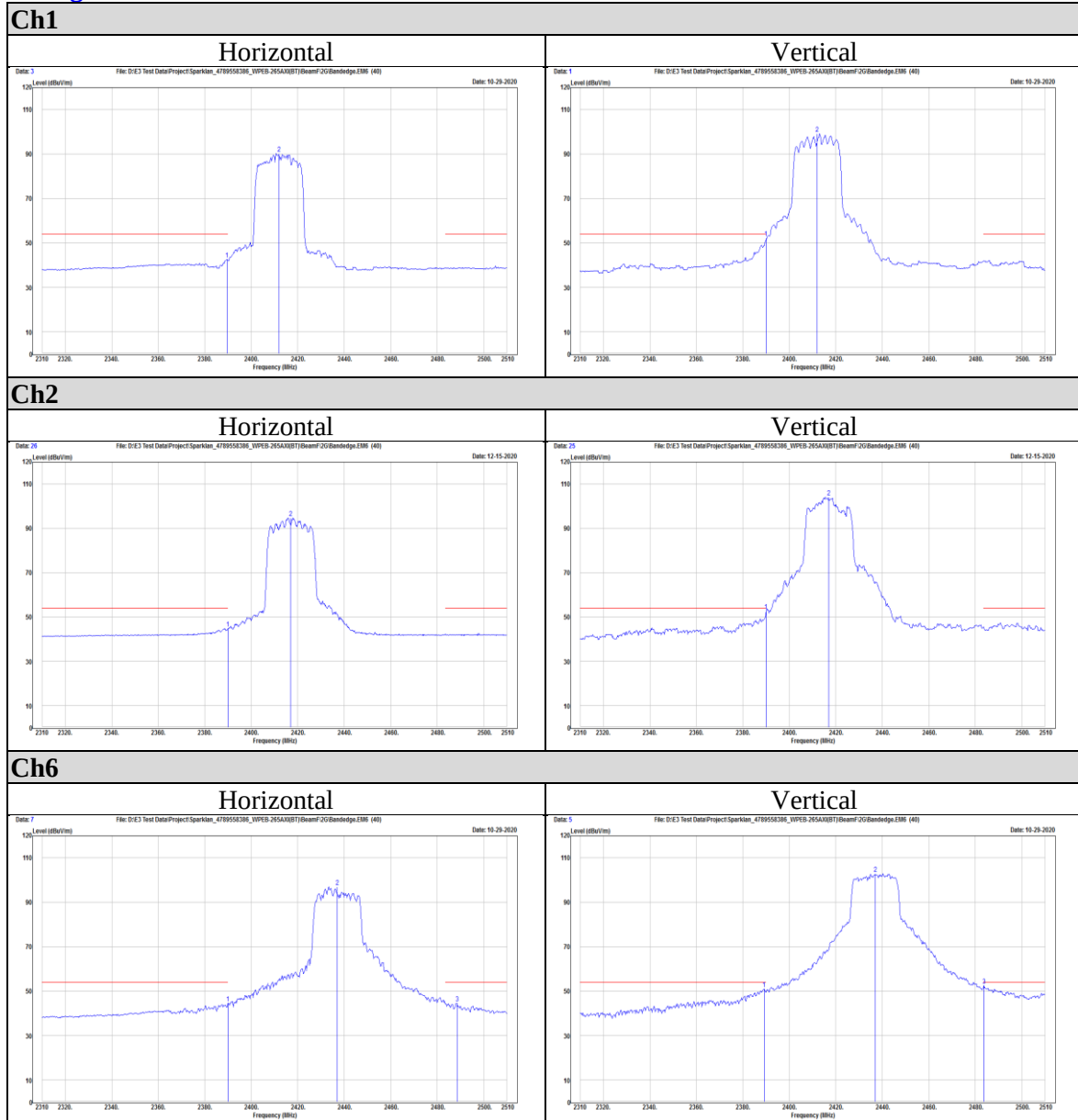
Facsimile (FAX ) : +886-3-583-7948

Doc No: 17-EM-F0876 / 5.0



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## Average



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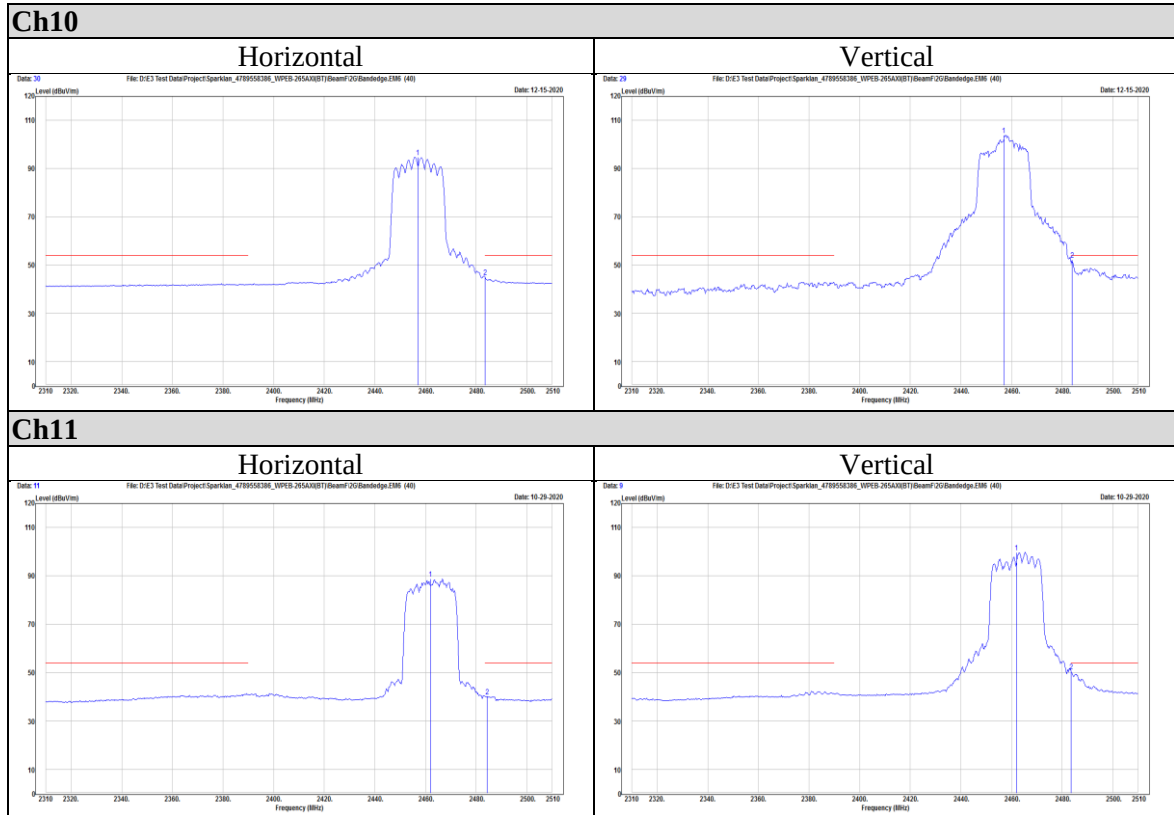
Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

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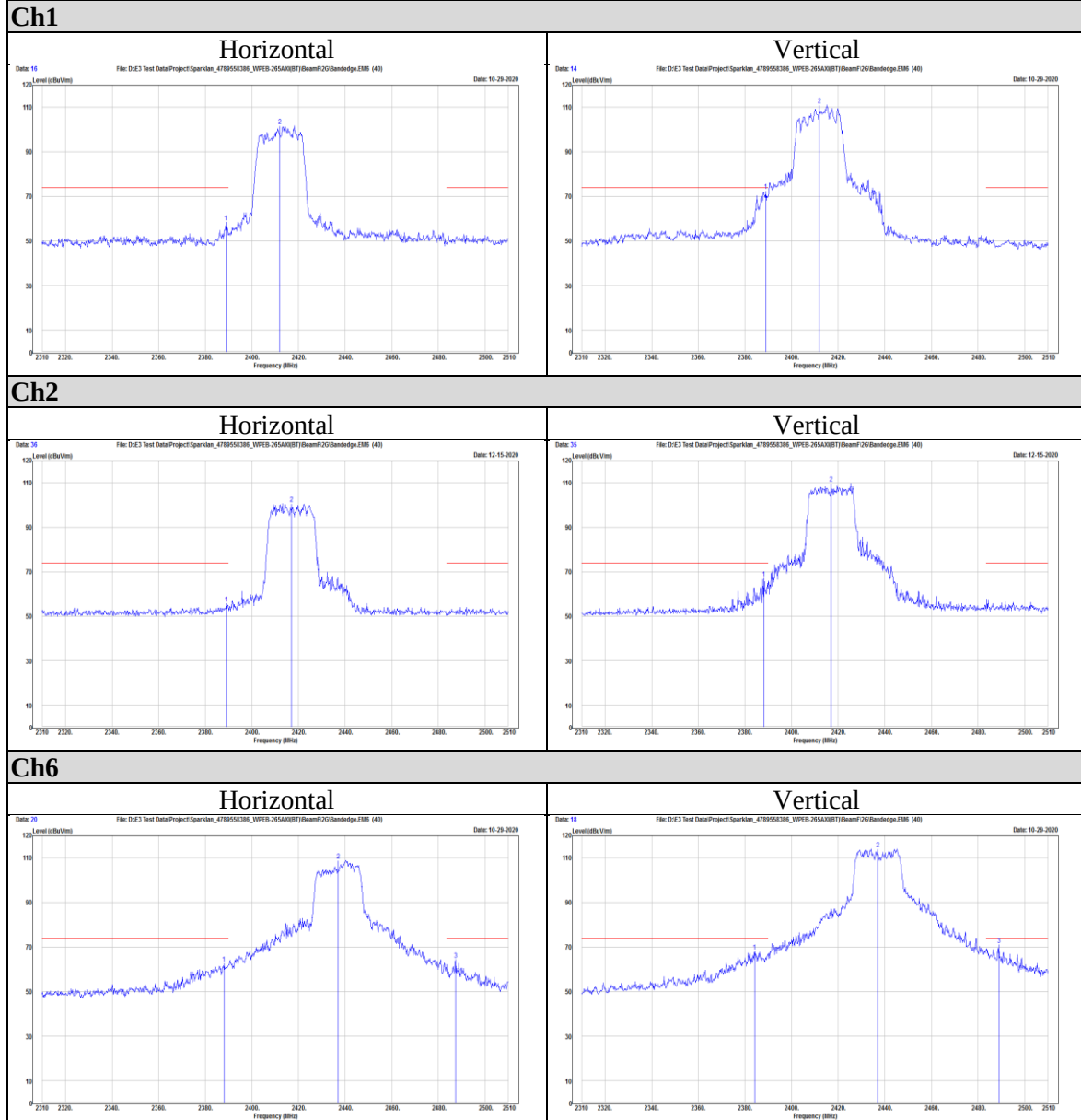
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### Peak



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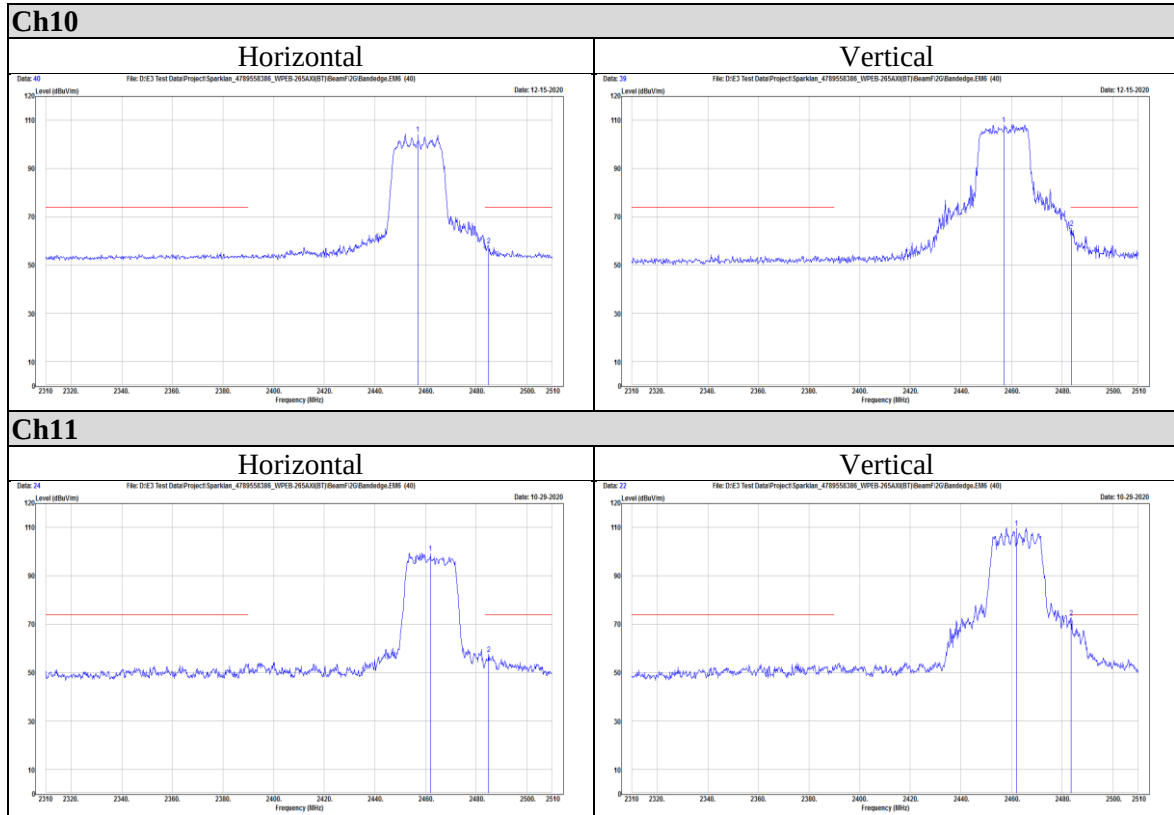
Telephone : +886-2-7737-3000

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Telephone : +886-2-7737-3000

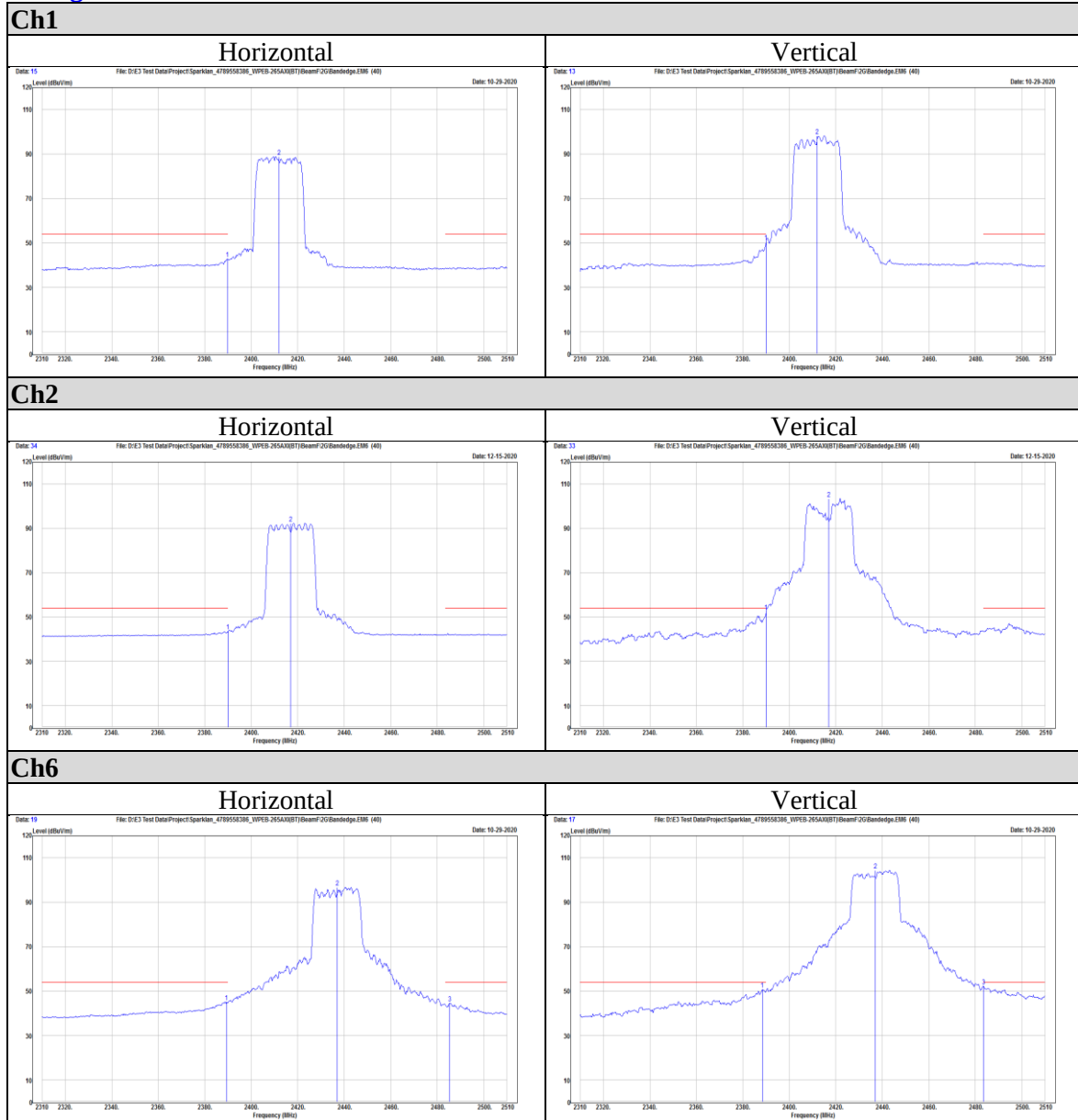
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Doc No: 17-EM-F0876 / 5.0



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## Average



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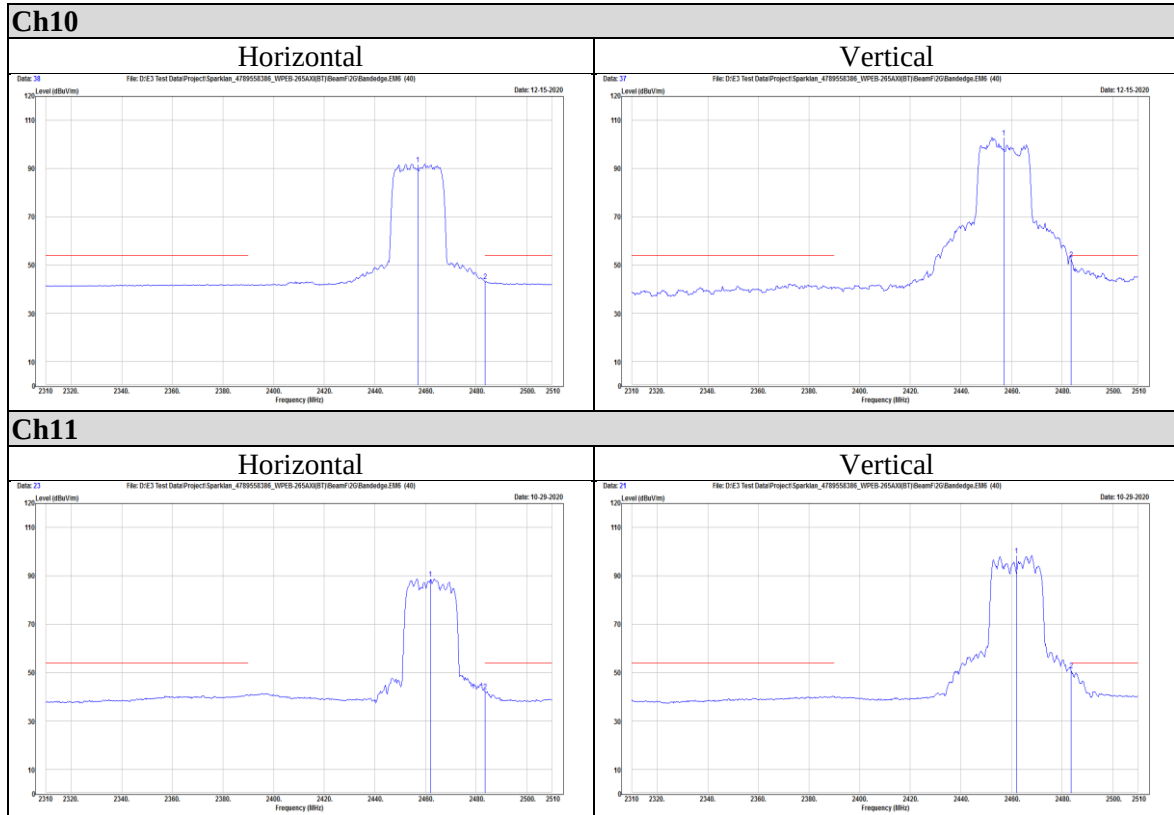
Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

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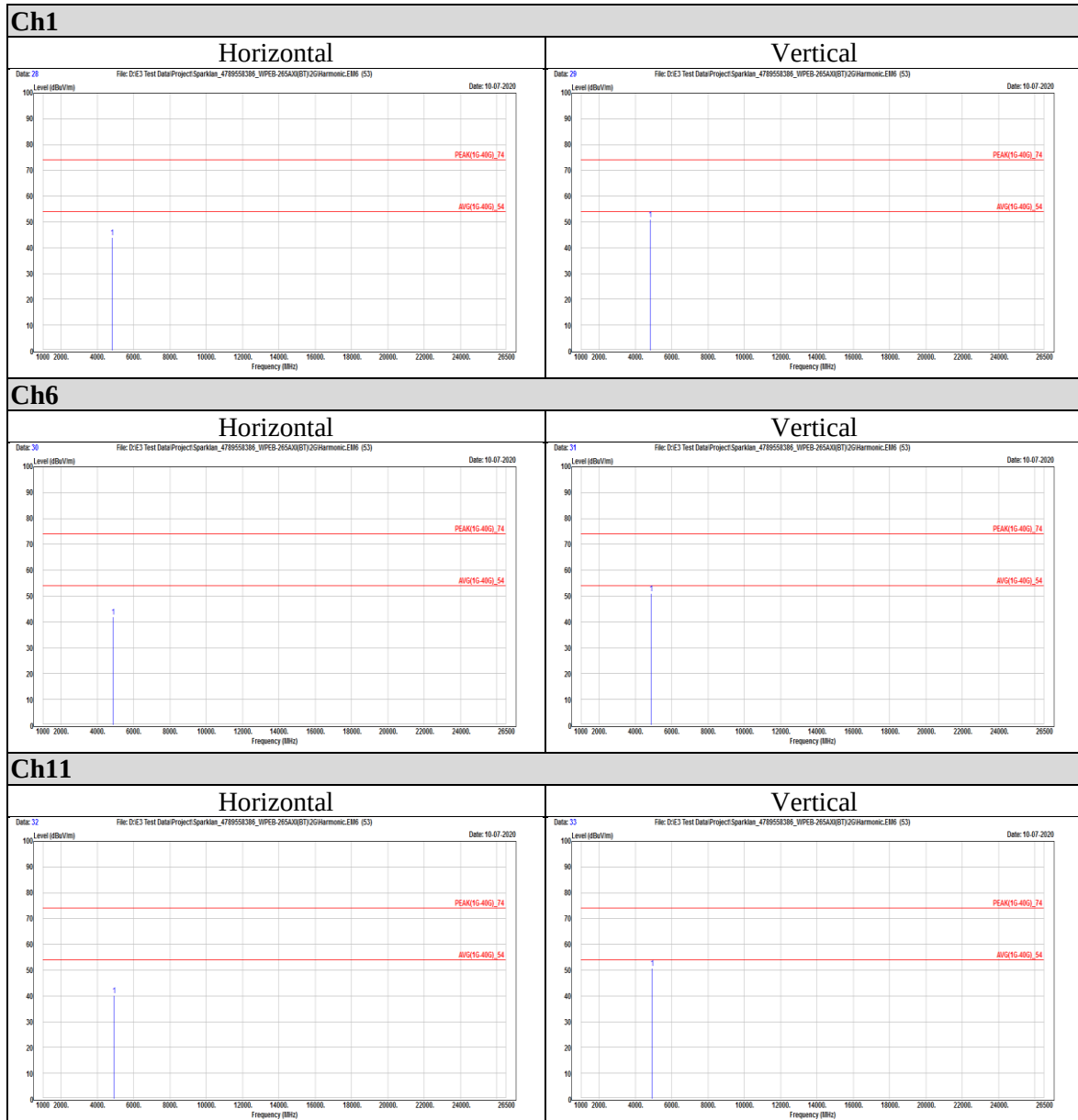




## Appendix II Radiated Spurious Emission Measurement

### Non-Beamforming mode

#### 802.11b



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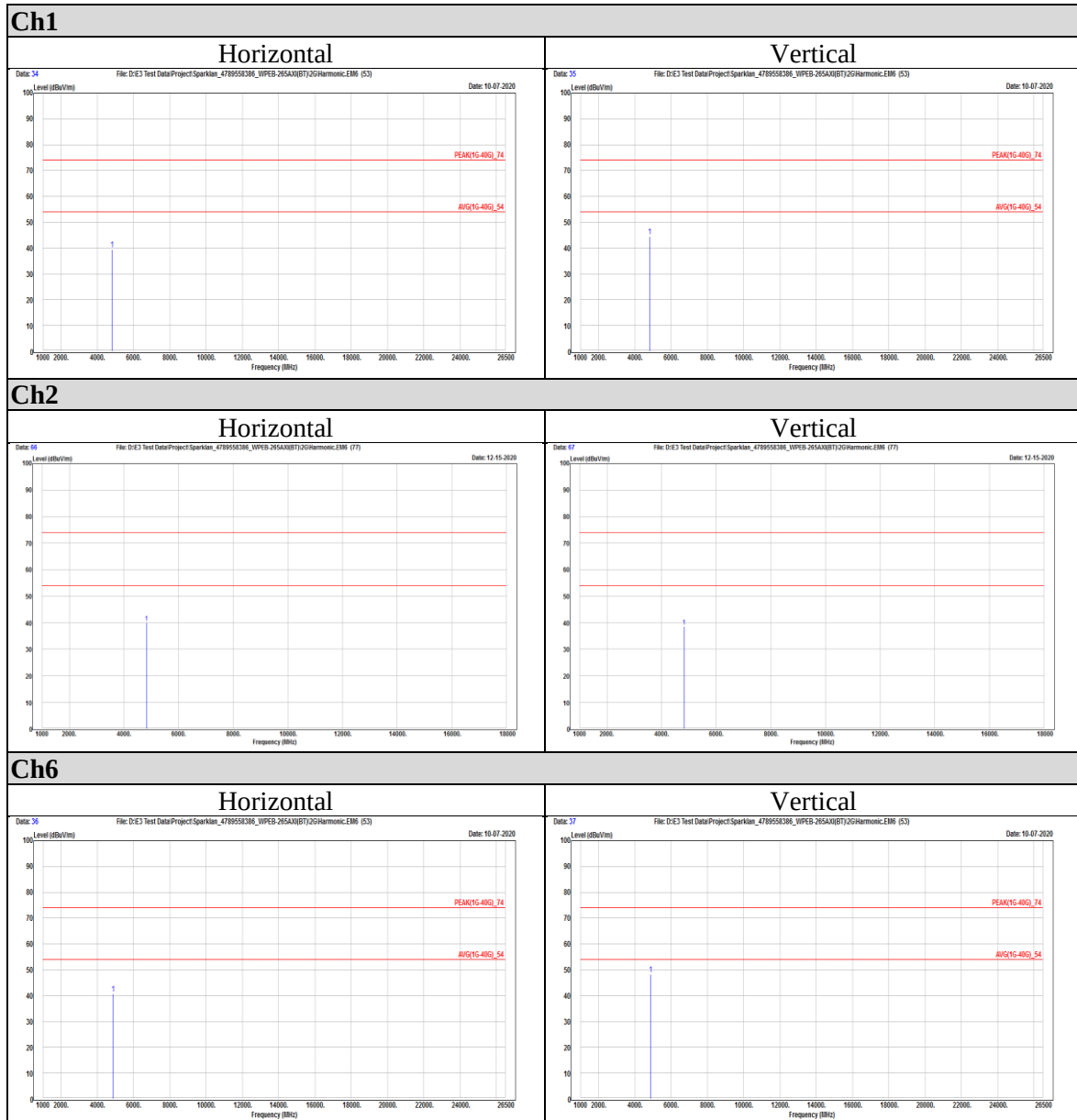
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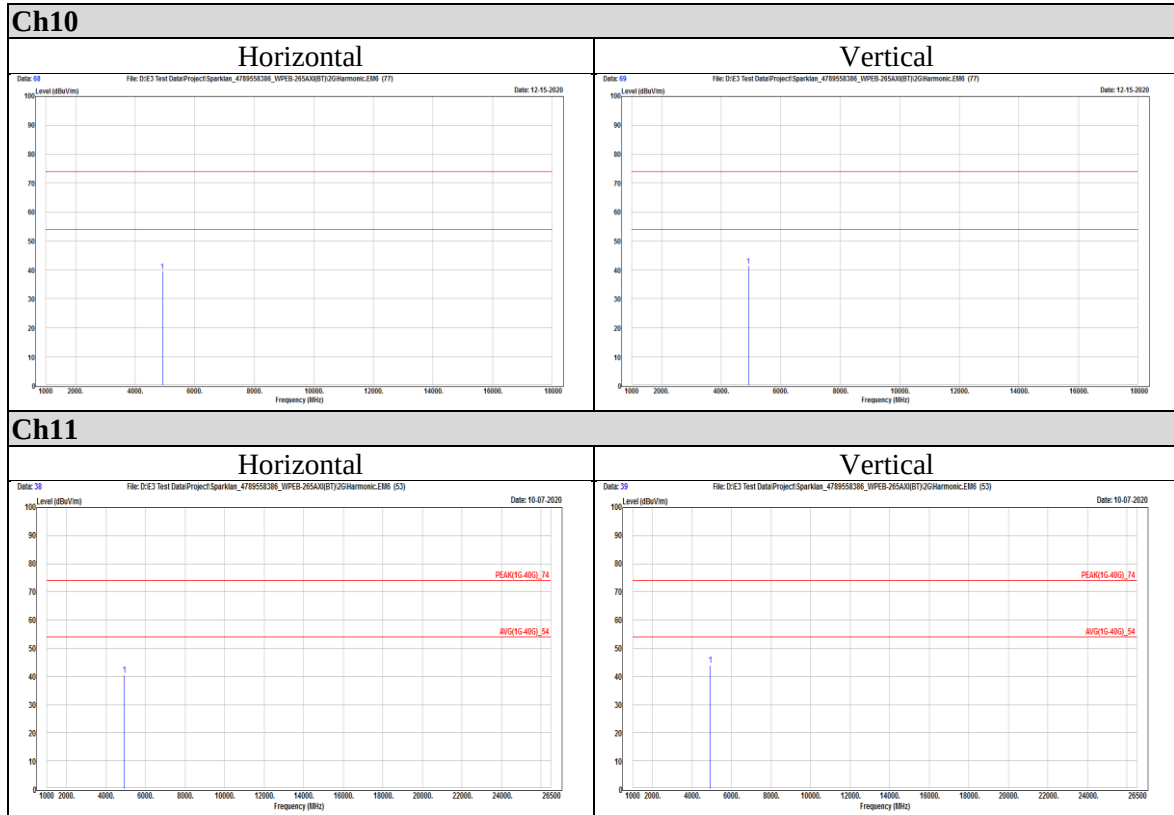


## 802.11g





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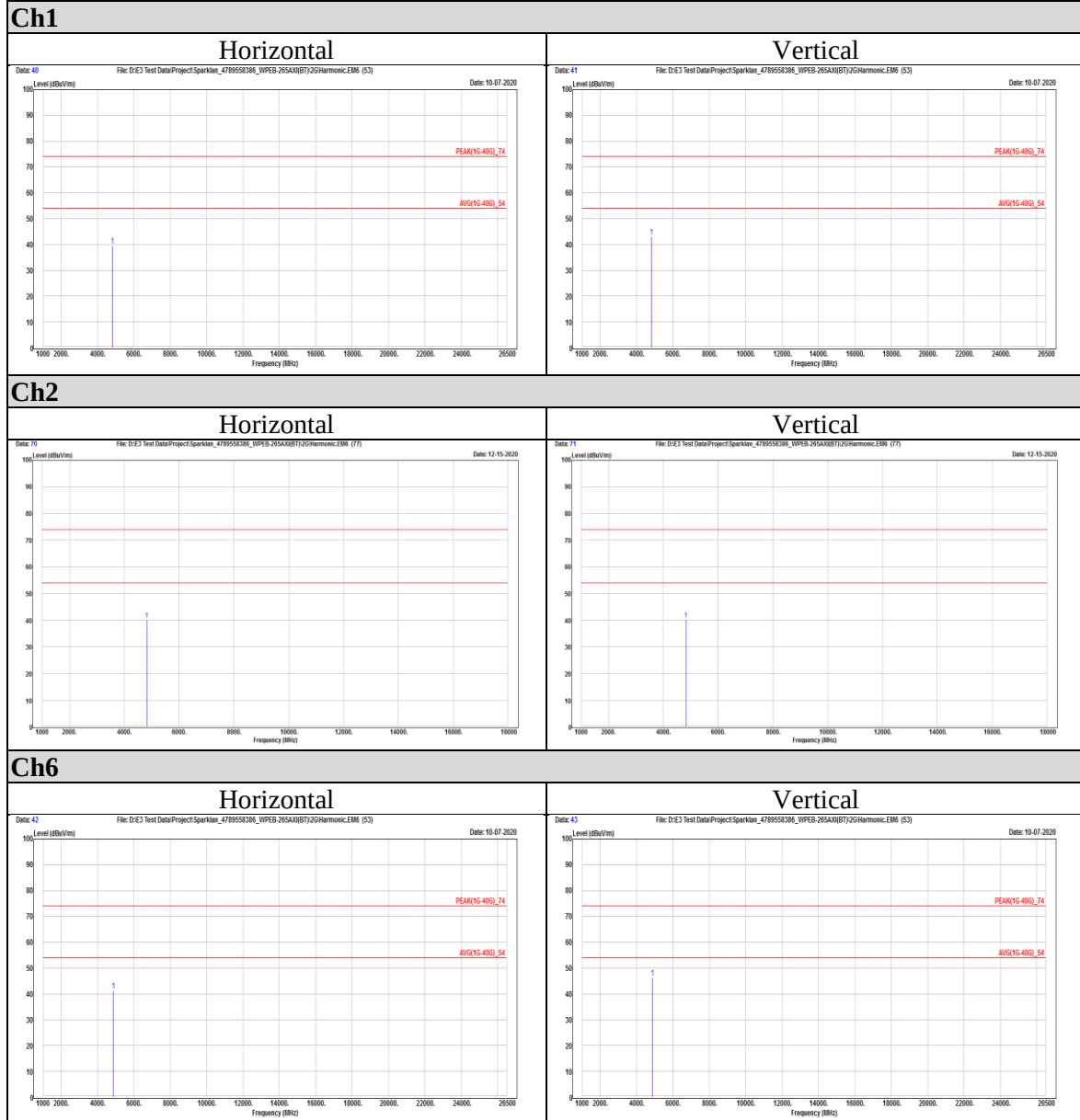
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## 802.11ax (HE20)

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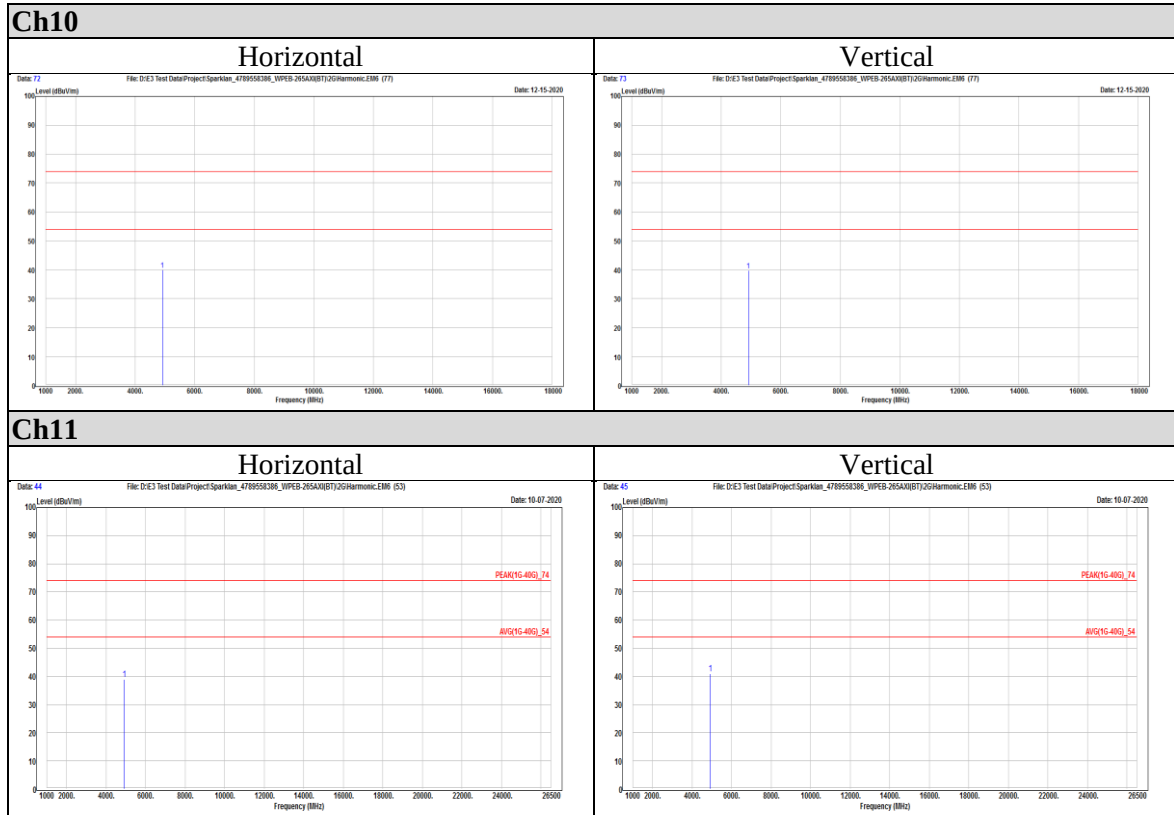
Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

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Telephone : +886-2-7737-3000

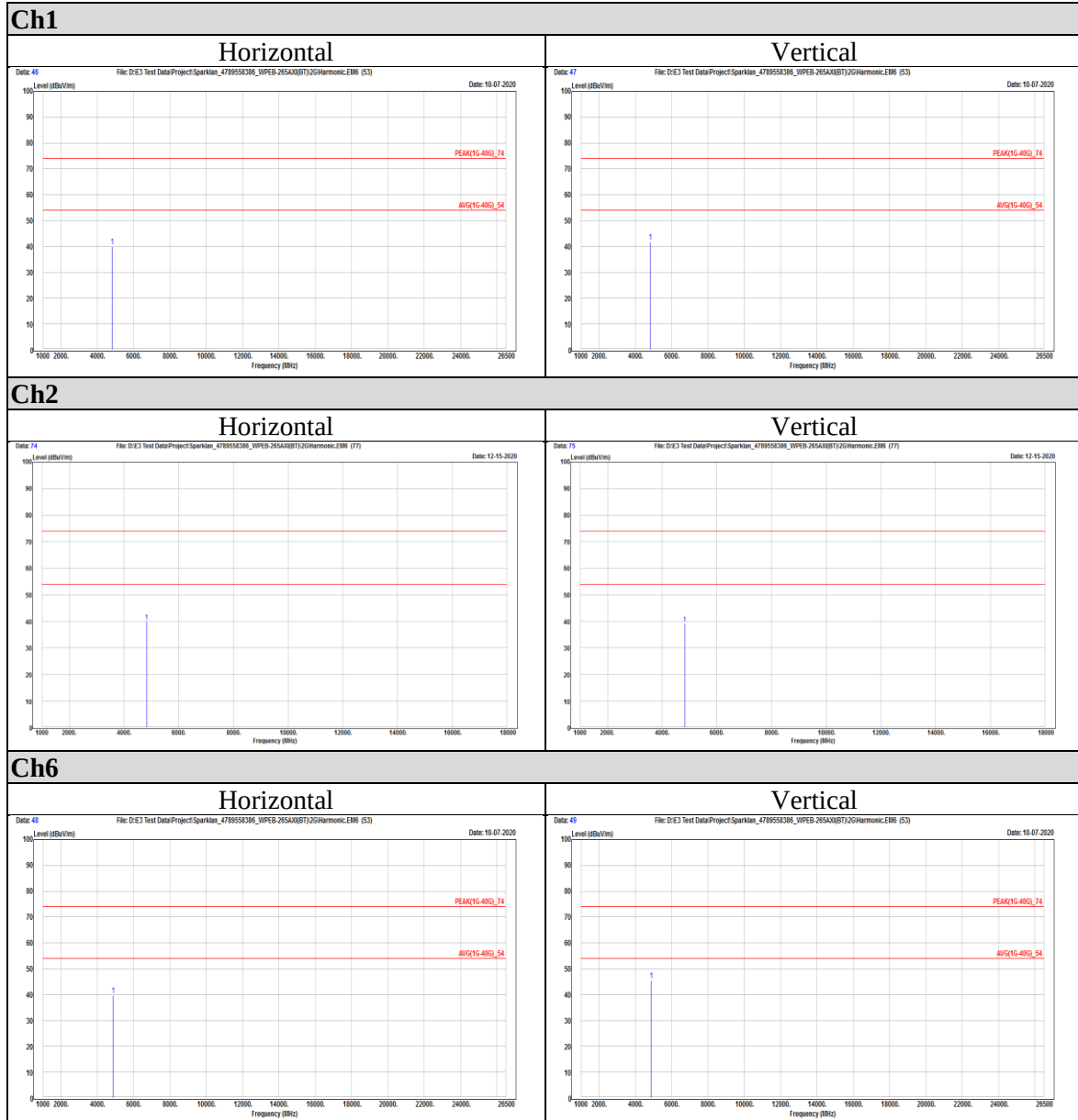
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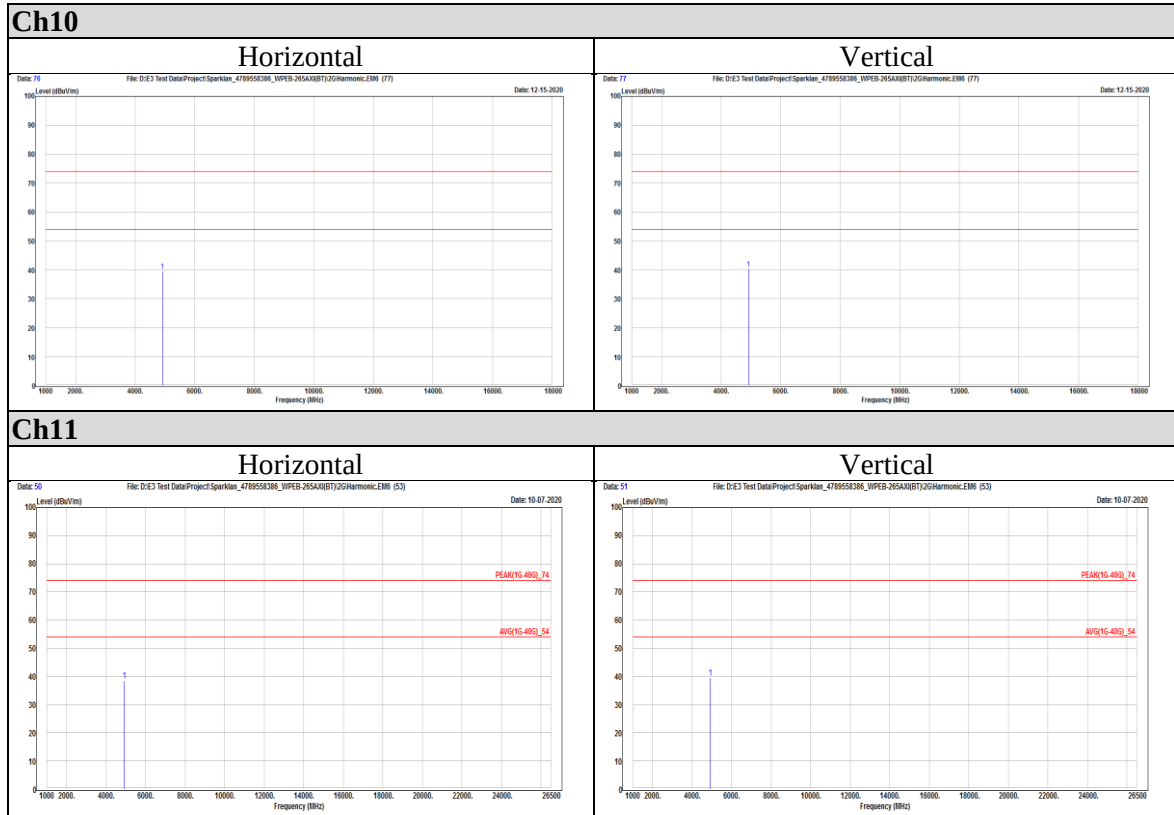
Telephone : +886-2-7737-3000

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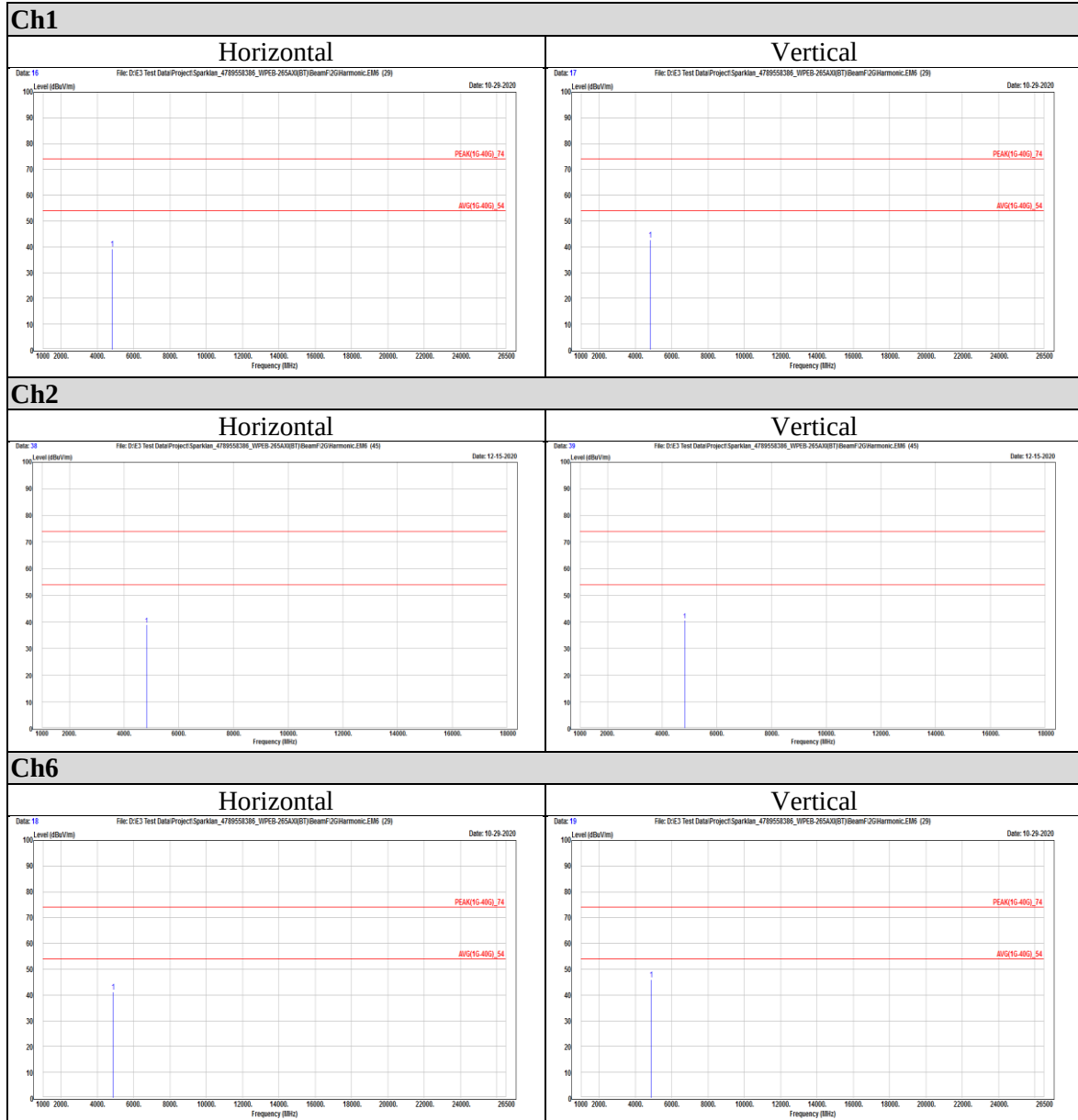


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## Beamforming mode

### 802.11ax (HE20)

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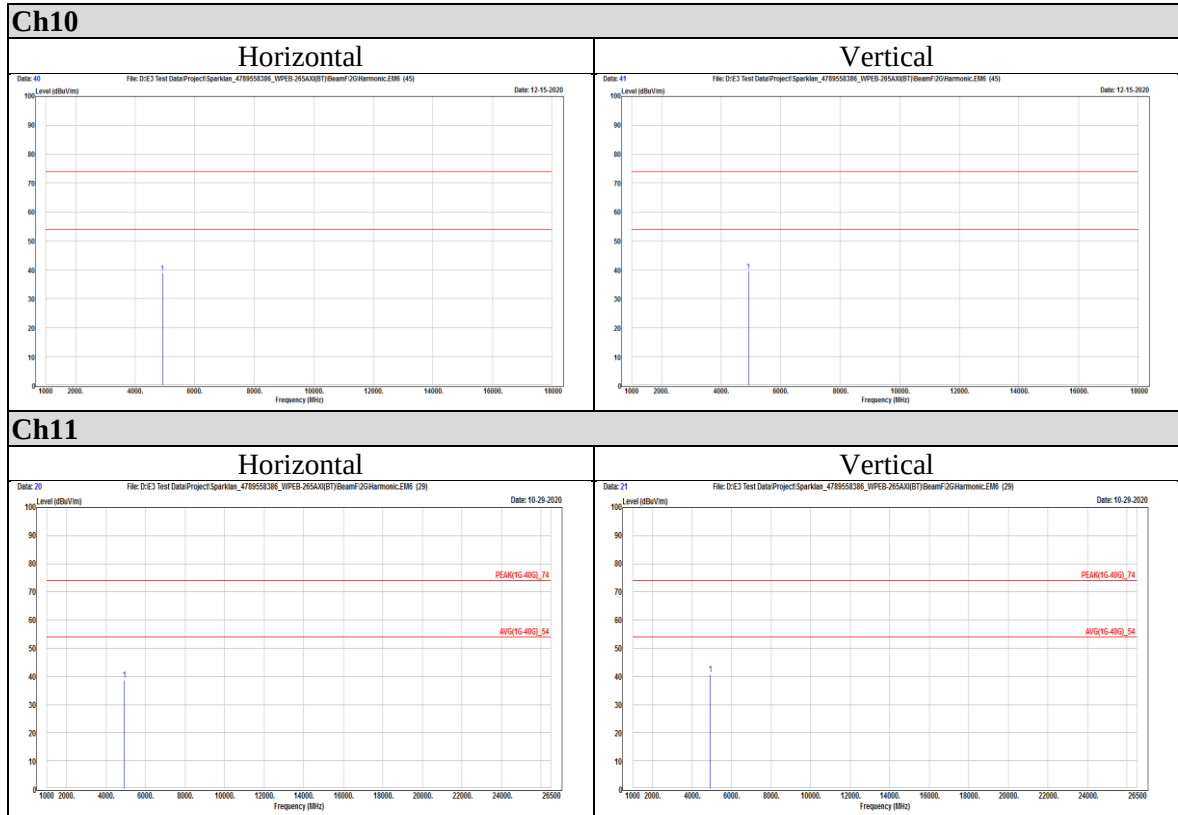
Facsimile (FAX) : +886-3-583-7948

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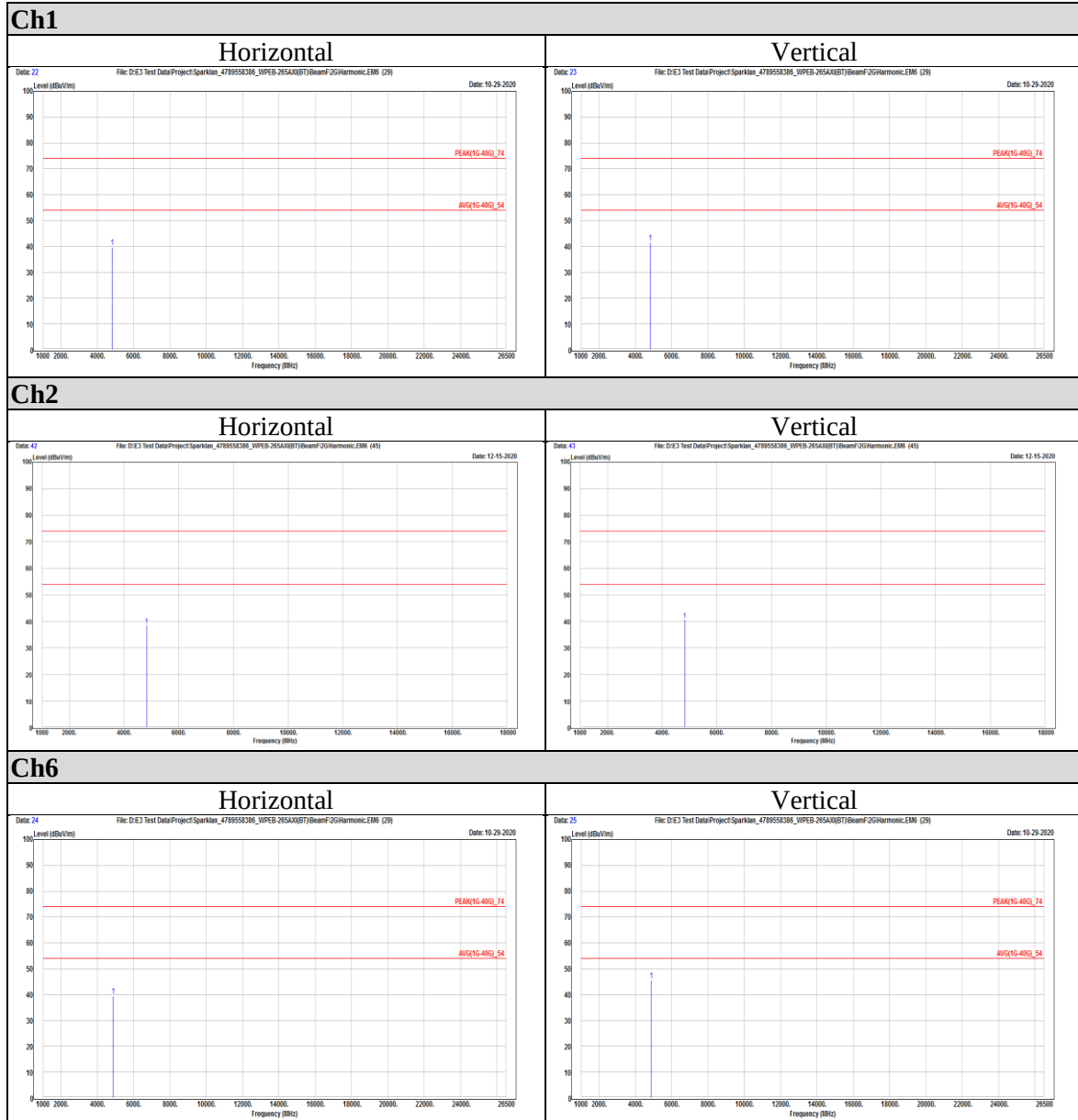
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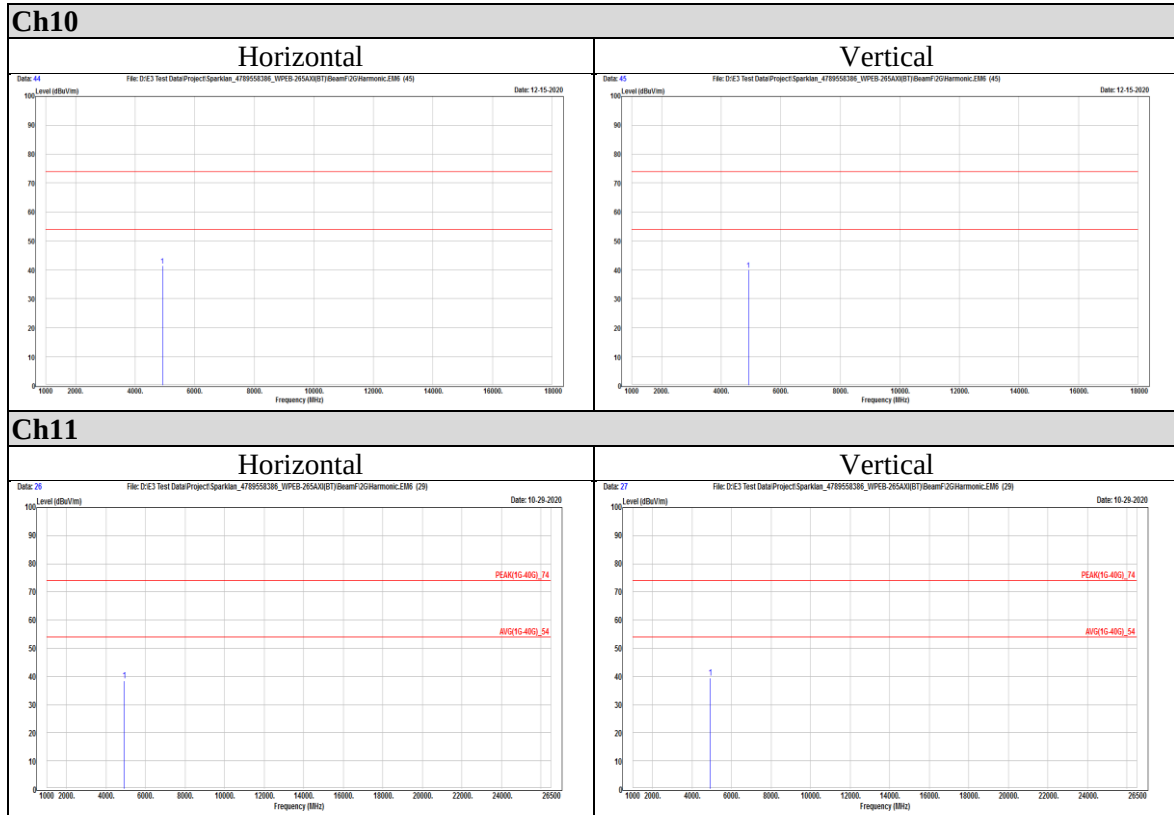
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