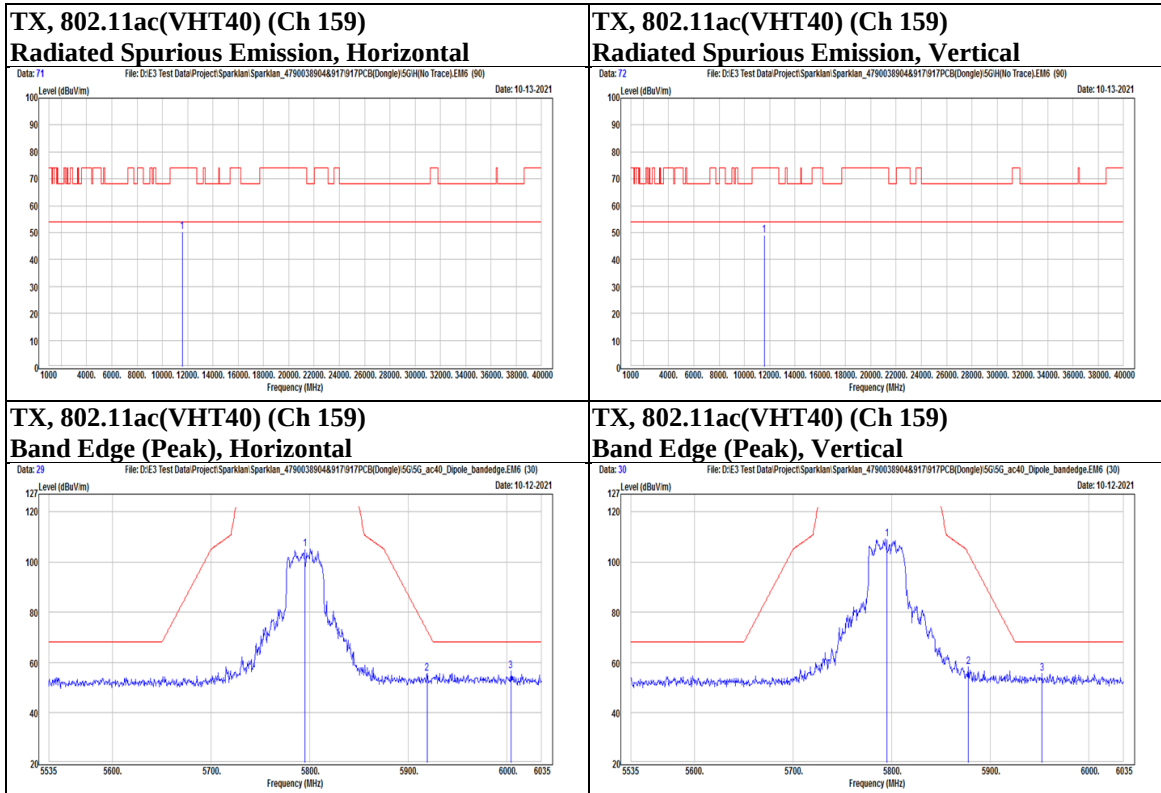




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|      |                 |         |    |
|------|-----------------|---------|----|
| Mode | 802.11ac(VHT80) | Channel | 42 |
|------|-----------------|---------|----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   |          | 5052.5    | 42.95   | 13.32   | 56.27    | 74       | -17.73 | PK     |
|              |          | 5144.9    | 30.56   | 13.43   | 43.99    | 54       | -10.01 | AVG    |
|              | @        | 5210      | 75.36   | 13.36   | 88.72    | N/A      | N/A    | PK     |
|              | @        | 5210      | 69.8    | 13.36   | 83.16    | N/A      | N/A    | AVG    |
|              |          | 10420     | 31.29   | 17.6    | 48.89    | 68.2     | -19.31 | PK     |
| Vertical     |          | 5081.2    | 43.01   | 13.4    | 56.41    | 74       | -17.59 | PK     |
|              |          | 5148.05   | 30.91   | 13.42   | 44.33    | 54       | -9.67  | AVG    |
|              | @        | 5210      | 79.6    | 13.36   | 92.96    | N/A      | N/A    | PK     |
|              | @        | 5210      | 73.63   | 13.36   | 86.99    | N/A      | N/A    | AVG    |
|              |          | 10420     | 31.86   | 17.6    | 49.46    | 68.2     | -18.74 | PK     |

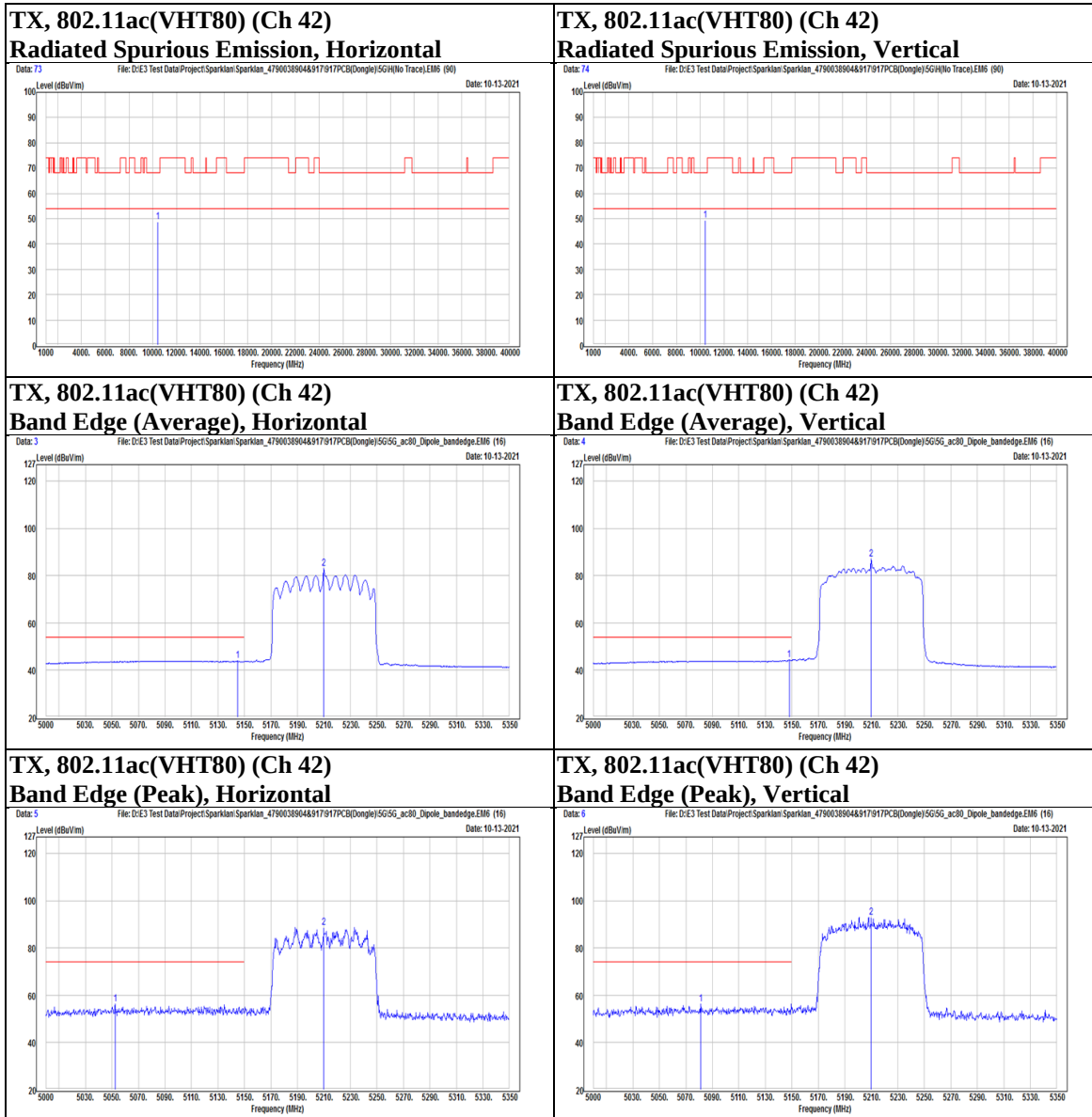
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|      |                 |         |    |
|------|-----------------|---------|----|
| Mode | 802.11ac(VHT80) | Channel | 58 |
|------|-----------------|---------|----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   | @        | 5290      | 77.37   | 13.21   | 90.58    | N/A      | N/A    | PK     |
|              | @        | 5290      | 71.12   | 13.21   | 84.33    | N/A      | N/A    | AVG    |
|              |          | 5440.2    | 40.51   | 13.63   | 54.14    | 74       | -19.86 | PK     |
|              |          | 5458.5    | 28.57   | 13.7    | 42.27    | 54       | -11.73 | AVG    |
|              |          | 10580     | 31.2    | 17.73   | 48.93    | 68.2     | -19.27 | PK     |
| Vertical     | @        | 5290      | 78.32   | 13.21   | 91.53    | N/A      | N/A    | PK     |
|              | @        | 5290      | 73.86   | 13.21   | 87.07    | N/A      | N/A    | AVG    |
|              |          | 5408.7    | 41.05   | 13.46   | 54.51    | 74       | -19.49 | PK     |
|              |          | 5449.8    | 28.77   | 13.67   | 42.44    | 54       | -11.56 | AVG    |
|              |          | 10580     | 31.16   | 17.73   | 48.89    | 68.2     | -19.31 | PK     |

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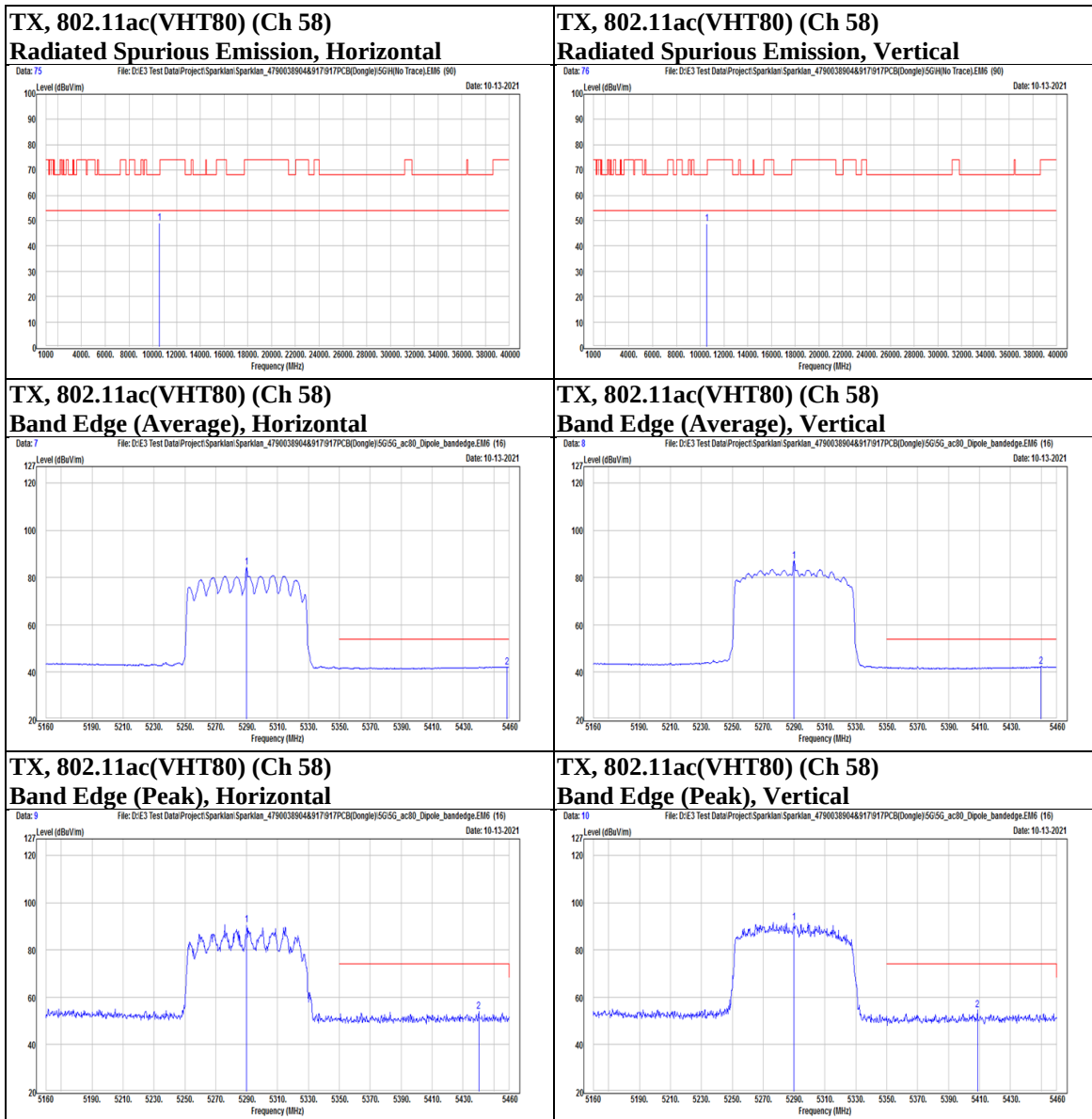
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|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT80) | Channel | 106 |
|------|-----------------|---------|-----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   |          | 5426.95   | 39.46   | 13.56   | 53.02    | 74       | -20.98 | PK     |
|              |          | 5426.95   | 28.1    | 13.56   | 41.66    | 54       | -12.34 | AVG    |
|              |          | 5468.95   | 39.62   | 13.74   | 53.36    | 68.2     | -14.84 | PK     |
|              | @        | 5530      | 82.05   | 13.87   | 95.92    | N/A      | N/A    | PK     |
|              | @        | 5530      | 72.09   | 13.87   | 85.96    | N/A      | N/A    | AVG    |
|              | *        | 11060     | 30.88   | 18.41   | 49.29    | 74       | -24.71 | PK     |
| Vertical     |          | 5452.15   | 40.1    | 13.67   | 53.77    | 74       | -20.23 | PK     |
|              |          | 5452.15   | 27.91   | 13.67   | 41.58    | 54       | -12.42 | AVG    |
|              |          | 5465.8    | 40.13   | 13.72   | 53.85    | 68.2     | -14.35 | PK     |
|              | @        | 5530      | 82.84   | 13.87   | 96.71    | N/A      | N/A    | PK     |
|              | @        | 5530      | 72.09   | 13.87   | 85.96    | N/A      | N/A    | AVG    |
|              | *        | 11060     | 31.28   | 18.41   | 49.69    | 74       | -24.31 | PK     |

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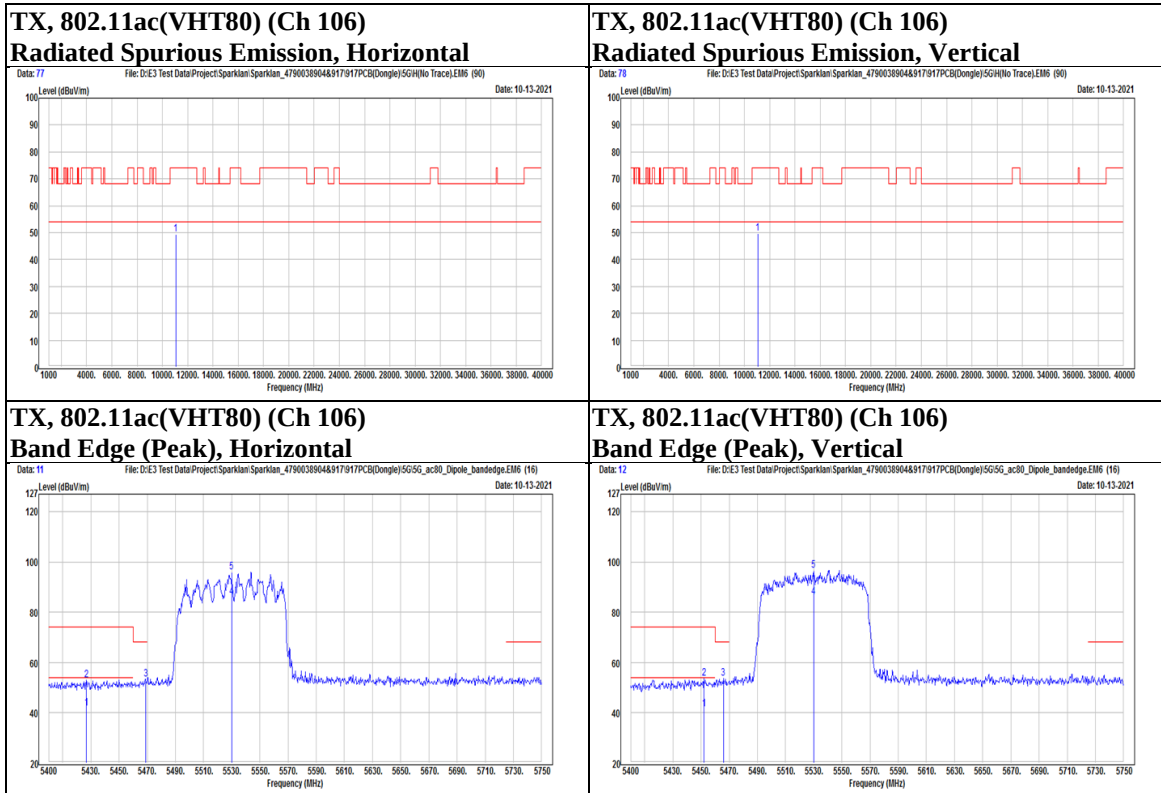
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|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT80) | Channel | 122 |
|------|-----------------|---------|-----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   |          | 5451.45   | 39.82   | 13.67   | 53.49    | 74       | -20.51 | PK     |
|              |          | 5451.45   | 27.91   | 13.67   | 41.58    | 54       | -12.42 | AVG    |
|              |          | 5464.75   | 39.71   | 13.72   | 53.43    | 68.2     | -14.77 | PK     |
|              | @        | 5610      | 89.44   | 14.03   | 103.47   | N/A      | N/A    | PK     |
|              | @        | 5610      | 79.3    | 14.03   | 93.33    | N/A      | N/A    | AVG    |
|              |          | 5728.65   | 40.84   | 14.19   | 55.03    | 68.2     | -13.17 | PK     |
|              | *        | 11220     | 30.76   | 18.25   | 49.01    | 74       | -24.99 | PK     |
| Vertical     |          | 5431.15   | 41.15   | 13.57   | 54.72    | 74       | -19.28 | PK     |
|              |          | 5431.15   | 28.41   | 13.57   | 41.98    | 54       | -12.02 | AVG    |
|              |          | 5460.9    | 40.55   | 13.71   | 54.26    | 68.2     | -13.94 | PK     |
|              | @        | 5610      | 91.43   | 14.03   | 105.46   | N/A      | N/A    | PK     |
|              | @        | 5610      | 81.2    | 14.03   | 95.23    | N/A      | N/A    | AVG    |
|              |          | 5725.15   | 41.71   | 14.18   | 55.89    | 68.2     | -12.31 | PK     |
|              | *        | 11220     | 30.99   | 18.25   | 49.24    | 74       | -24.76 | PK     |

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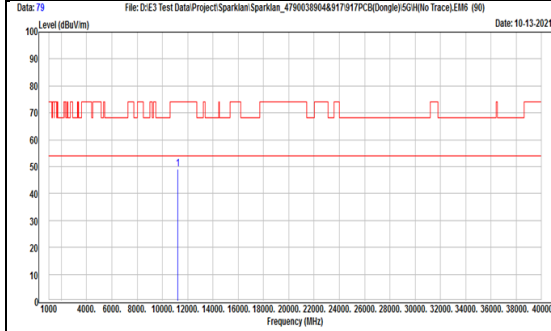
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Doc No: 17-EM-F0878 / 6.0

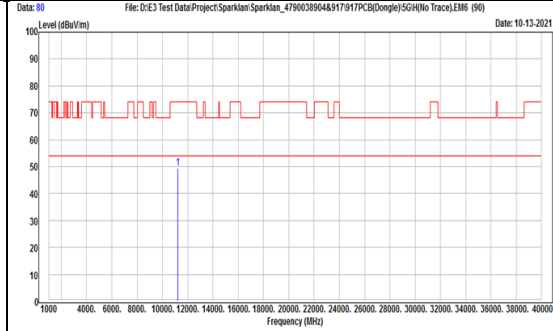


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FCC ID : RYK-WUBT239ACND

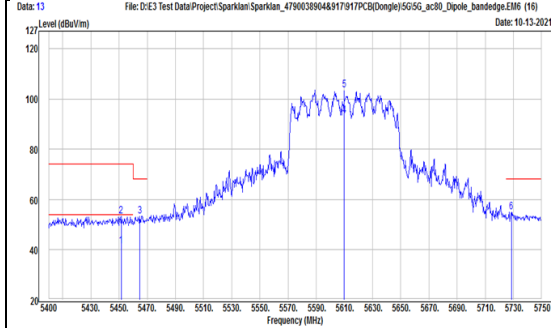
**TX, 802.11ac(VHT80) (Ch 122)**  
**Radiated Spurious Emission, Horizontal**



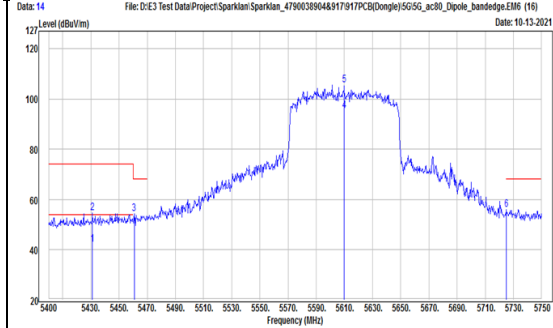
**TX, 802.11ac(VHT80) (Ch 122)**  
**Radiated Spurious Emission, Vertical**



**TX, 802.11ac(VHT80) (Ch 122)**  
**Band Edge (Peak), Horizontal**



**TX, 802.11ac(VHT80) (Ch 122)**  
**Band Edge (Peak), Vertical**



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|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT80) | Channel | 138 |
|------|-----------------|---------|-----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   | *        | 11380     | 31      | 18.67   | 49.67    | 74       | -24.33 | PK     |
| Vertical     | *        | 11380     | 29.8    | 18.67   | 48.47    | 74       | -25.53 | PK     |

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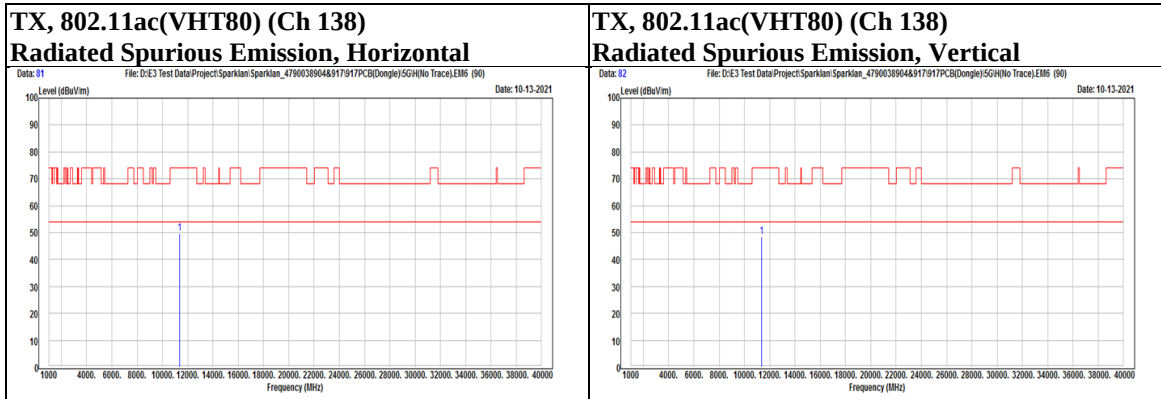
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|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT80) | Channel | 155 |
|------|-----------------|---------|-----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   |          | 5630.5    | 43.57   | 14.02   | 57.59    | 68.2     | -10.61 | PK     |
|              |          | 5699.5    | 57.63   | 14.05   | 71.68    | 104.83   | -33.15 | PK     |
|              | @        | 5775      | 89.17   | 14.44   | 103.61   | N/A      | N/A    | PK     |
|              |          | 5877.5    | 45.63   | 14.89   | 60.52    | 103.34   | -42.82 | PK     |
|              |          | 5992.5    | 40.58   | 15.14   | 55.72    | 68.2     | -12.48 | PK     |
|              | *        | 11550     | 30.64   | 18.93   | 49.57    | 74       | -24.43 | PK     |
| Vertical     |          | 5635.5    | 44.6    | 14.01   | 58.61    | 68.2     | -9.59  | PK     |
|              |          | 5697.5    | 60.89   | 14.05   | 74.94    | 103.36   | -28.42 | PK     |
|              | @        | 5775      | 90.8    | 14.44   | 105.24   | N/A      | N/A    | PK     |
|              |          | 5878      | 47.05   | 14.9    | 61.95    | 102.97   | -41.02 | PK     |
|              |          | 5933      | 42.06   | 15      | 57.06    | 68.2     | -11.14 | PK     |
|              | *        | 11550     | 30.52   | 18.93   | 49.45    | 74       | -24.55 | PK     |

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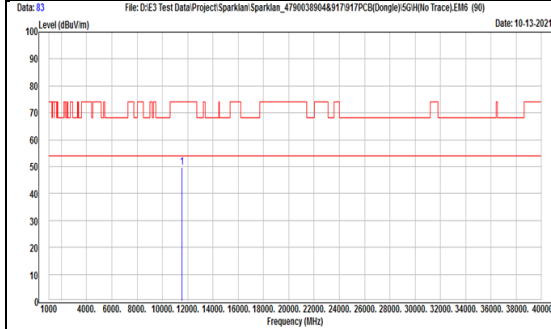
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Doc No: 17-EM-F0878 / 6.0

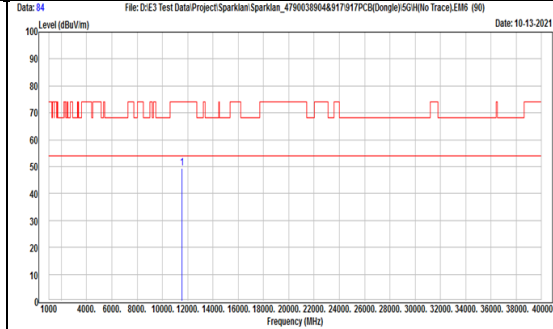


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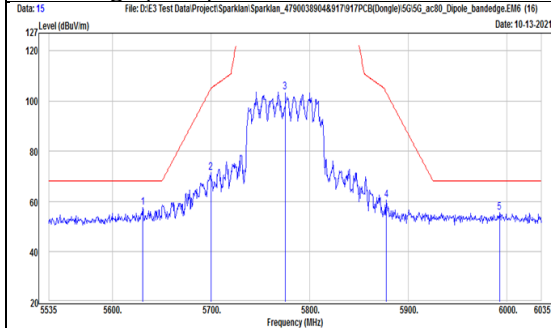
**TX, 802.11ac(VHT80) (Ch 155)**  
**Radiated Spurious Emission, Horizontal**



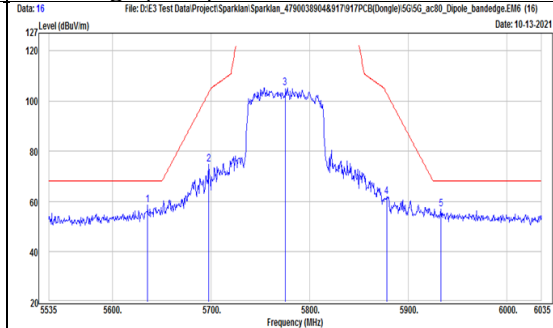
**TX, 802.11ac(VHT80) (Ch 155)**  
**Radiated Spurious Emission, Vertical**



**TX, 802.11ac(VHT80) (Ch 155)**  
**Band Edge (Peak), Horizontal**



**TX, 802.11ac(VHT80) (Ch 155)**  
**Band Edge (Peak), Vertical**



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### Below 1G

|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT20) | Channel | 149 |
|------|-----------------|---------|-----|

| Polarization | Notation | Frequency | Reading | Correct | Result   | Limit    | Margin | Remark |
|--------------|----------|-----------|---------|---------|----------|----------|--------|--------|
|              |          | (MHz)     | (dBuV)  | (dB/m)  | (dBuV/m) | (dBuV/m) | (dB)   |        |
| Horizontal   |          | 77.53     | 41.32   | -15.76  | 25.56    | 40       | -14.44 | PK     |
|              |          | 184.23    | 46.73   | -12.74  | 33.99    | 43.5     | -9.51  | PK     |
|              |          | 236.61    | 42.52   | -12.2   | 30.32    | 46       | -15.68 | PK     |
|              |          | 364.65    | 40.09   | -8.01   | 32.08    | 46       | -13.92 | PK     |
|              |          | 479.11    | 36.95   | -5.18   | 31.77    | 46       | -14.23 | PK     |
|              |          | 962.17    | 32.19   | 3.91    | 36.1     | 54       | -17.9  | PK     |
| Vertical     |          | 78.5      | 41.41   | -16     | 25.41    | 40       | -14.59 | PK     |
|              |          | 165.8     | 34.91   | -11.13  | 23.78    | 43.5     | -19.72 | PK     |
|              |          | 296.75    | 39.2    | -10.08  | 29.12    | 46       | -16.88 | PK     |
|              |          | 481.05    | 42.33   | -5.15   | 37.18    | 46       | -8.82  | PK     |
|              |          | 668.26    | 32.7    | -1.17   | 31.53    | 46       | -14.47 | PK     |
|              |          | 961.2     | 33.36   | 3.9     | 37.26    | 54       | -16.74 | PK     |

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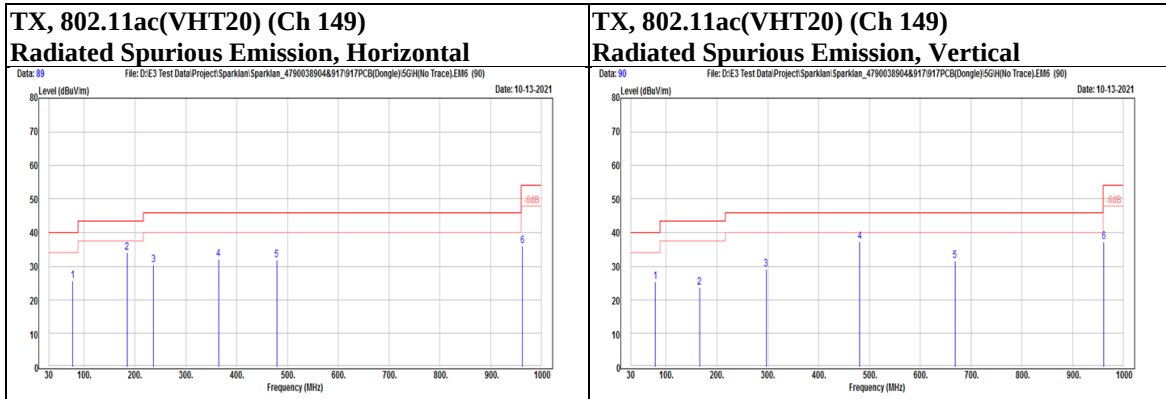
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### 9.3. AC Power Line Conducted Emission

#### Requirements

| Frequency (MHz) | Conducted limit (dB $\mu$ V) |         |
|-----------------|------------------------------|---------|
|                 | 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.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dBuV) - Limit value (dBuV).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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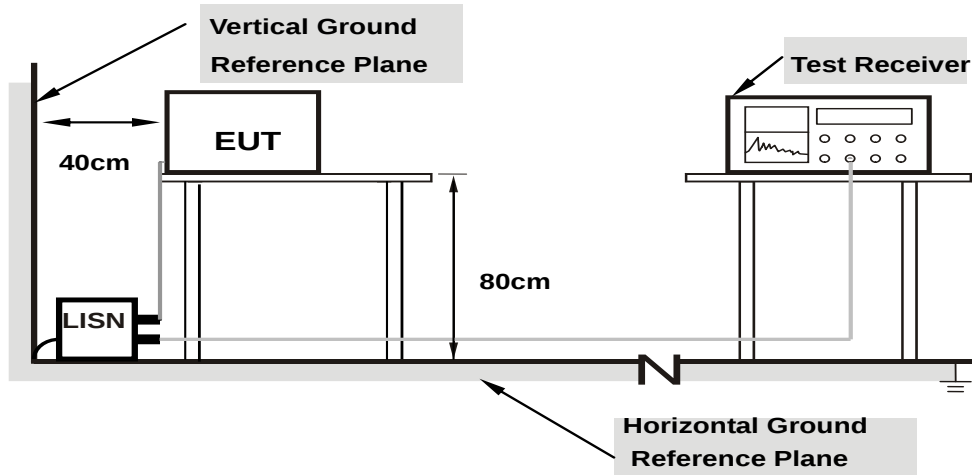
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### Test Setup



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

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

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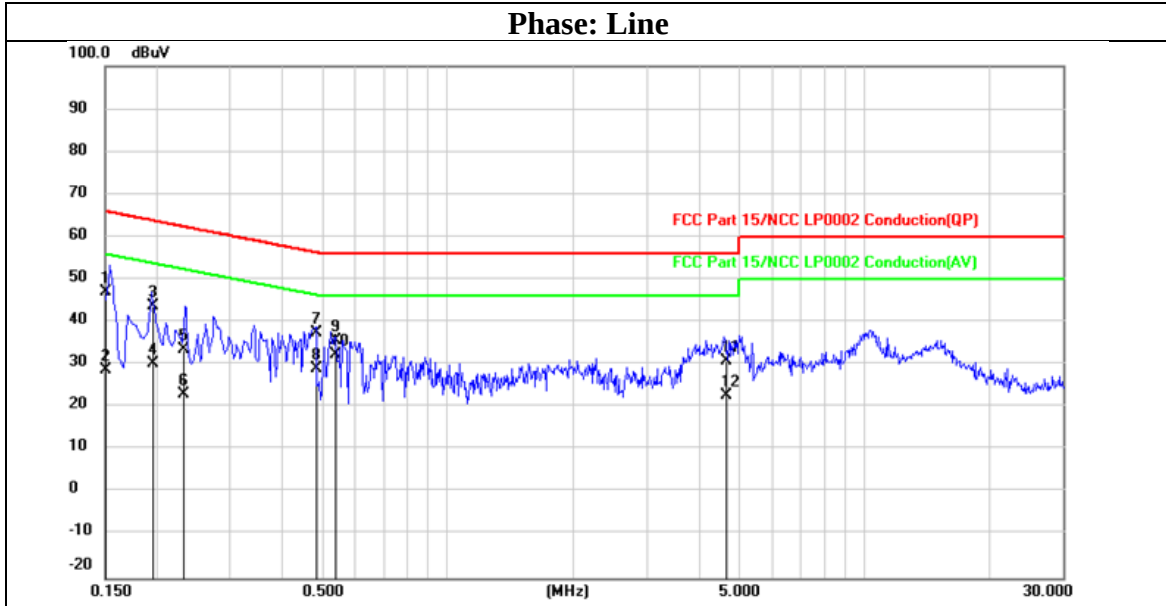
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Doc No: 17-EM-F0878 / 6.0



## Test Data

|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT20) | Channel | 149 |
|------|-----------------|---------|-----|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1502             | 27.63             | 19.49           | 47.12            | 65.99           | -18.87         | QP     |
| 2   | 0.1502             | 9.31              | 19.49           | 28.80            | 55.99           | -27.19         | AVG    |
| 3   | 0.1955             | 24.29             | 19.49           | 43.78            | 63.80           | -20.02         | QP     |
| 4   | 0.1955             | 10.78             | 19.49           | 30.27            | 53.80           | -23.53         | AVG    |
| 5   | 0.2310             | 14.18             | 19.49           | 33.67            | 62.41           | -28.74         | QP     |
| 6   | 0.2310             | 3.51              | 19.49           | 23.00            | 52.41           | -29.41         | AVG    |
| 7   | 0.4821             | 18.09             | 19.49           | 37.58            | 56.30           | -18.72         | QP     |
| 8   | 0.4821             | 9.58              | 19.49           | 29.07            | 46.30           | -17.23         | AVG    |
| 9   | 0.5359             | 16.11             | 19.50           | 35.61            | 56.00           | -20.39         | QP     |
| 10  | 0.5359             | 12.73             | 19.50           | 32.23            | 46.00           | -13.77         | AVG    |
| 11  | 4.6506             | 11.24             | 19.59           | 30.83            | 56.00           | -25.17         | QP     |
| 12  | 4.6506             | 3.11              | 19.59           | 22.70            | 46.00           | -23.30         | AVG    |

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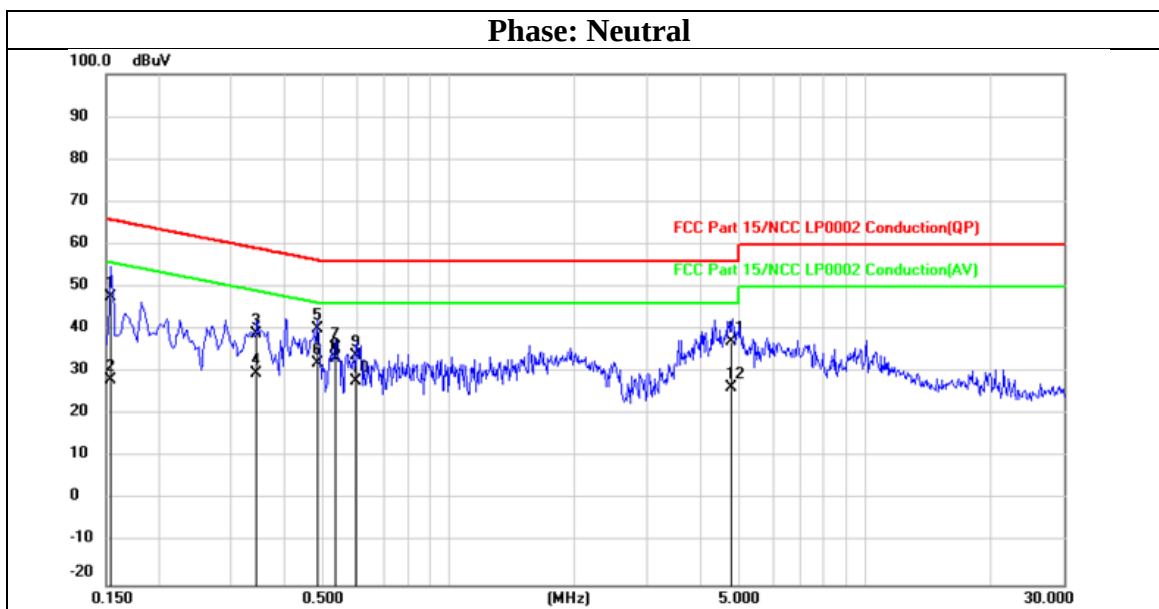
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FCC ID : RYK-WUBT239ACND

|      |                 |         |     |
|------|-----------------|---------|-----|
| Mode | 802.11ac(VHT20) | Channel | 149 |
|------|-----------------|---------|-----|



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1527          | 28.31          | 19.49        | 47.80         | 65.85        | -18.05      | QP     |
| 2   | 0.1527          | 8.55           | 19.49        | 28.04         | 55.85        | -27.81      | AVG    |
| 3   | 0.3444          | 19.39          | 19.49        | 38.88         | 59.10        | -20.22      | QP     |
| 4   | 0.3444          | 10.25          | 19.49        | 29.74         | 49.10        | -19.36      | AVG    |
| 5   | 0.4823          | 20.71          | 19.49        | 40.20         | 56.30        | -16.10      | QP     |
| 6   | 0.4823          | 12.50          | 19.49        | 31.99         | 46.30        | -14.31      | AVG    |
| 7   | 0.5324          | 16.14          | 19.50        | 35.64         | 56.00        | -20.36      | QP     |
| 8   | 0.5324          | 13.75          | 19.50        | 33.25         | 46.00        | -12.75      | AVG    |
| 9   | 0.5960          | 14.43          | 19.50        | 33.93         | 56.00        | -22.07      | QP     |
| 10  | 0.5960          | 8.47           | 19.50        | 27.97         | 46.00        | -18.03      | AVG    |
| 11  | 4.7837          | 17.61          | 19.60        | 37.21         | 56.00        | -18.79      | QP     |
| 12  | 4.7837          | 6.83           | 19.60        | 26.43         | 46.00        | -19.57      | AVG    |

**END OF REPORT**

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