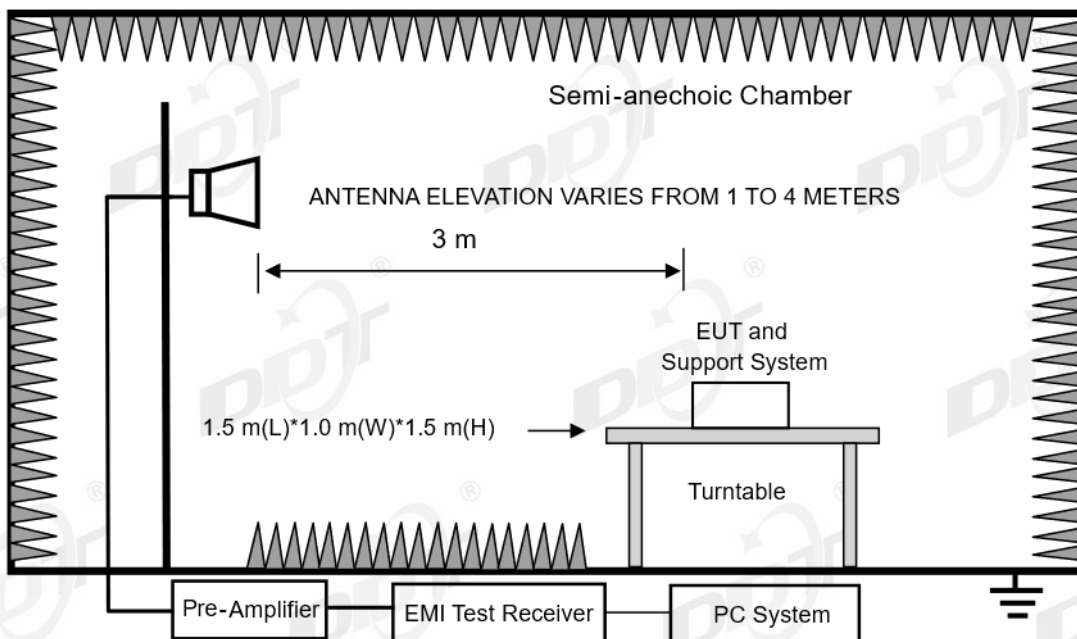


## 12. Band Edge Compliance

### 12.1. Block diagram of test setup



### 12.2. Limit

For transmitters operating in the 5.15-5.25 GHz and 5.725-5.85 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

$$-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$$

### 12.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

### 12.4. Test result

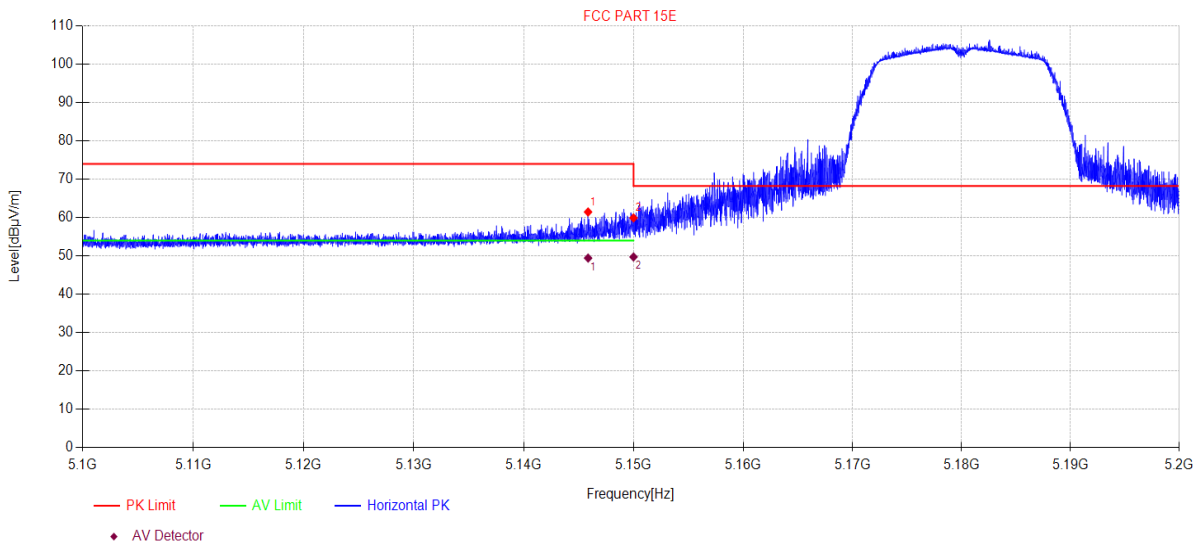
Pass. (See below detailed test result)

Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\26  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5145.86	53.03	5.58	32.90	-30.06	61.45	74.00	12.55	PK	Horizontal
2	5150.00	51.47	5.59	32.90	-30.06	59.90	68.20	8.30	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5145.86	41.02	5.58	32.90	-30.06	49.44	54.00	4.56	AV	Horizontal
2	5150.00	41.30	5.59	32.90	-30.06	49.73	54.00	4.27	AV	Horizontal

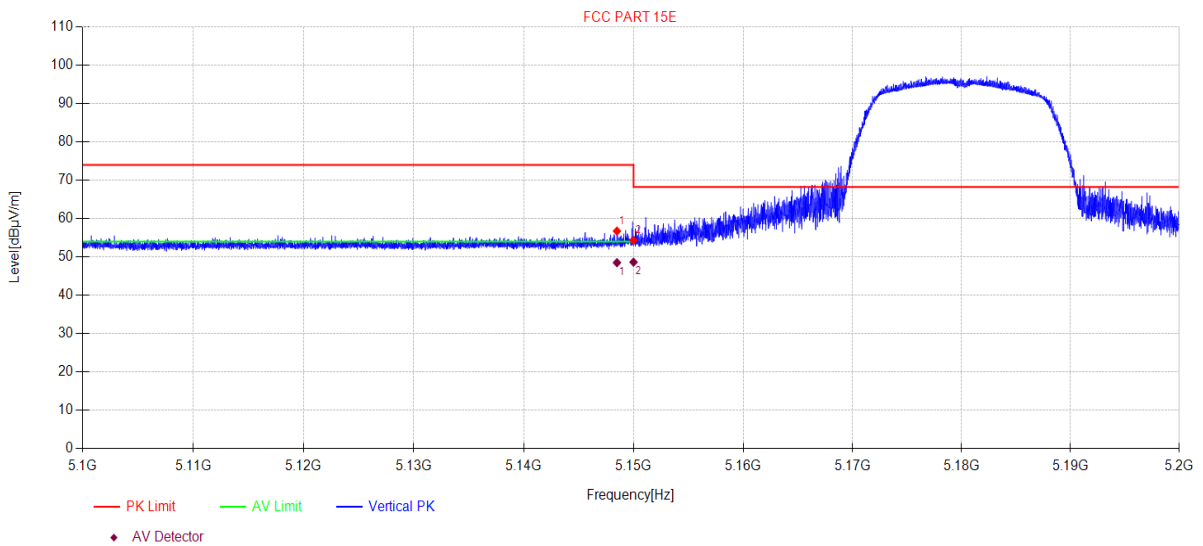
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\27  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.49	48.31	5.58	32.90	-30.06	56.73	74.00	17.27	PK	Vertical
2	5150.00	45.90	5.59	32.90	-30.06	54.33	68.20	13.87	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.49	40.08	5.58	32.90	-30.06	48.50	54.00	5.50	AV	Vertical
2	5150.00	40.21	5.59	32.90	-30.06	48.64	54.00	5.36	AV	Vertical

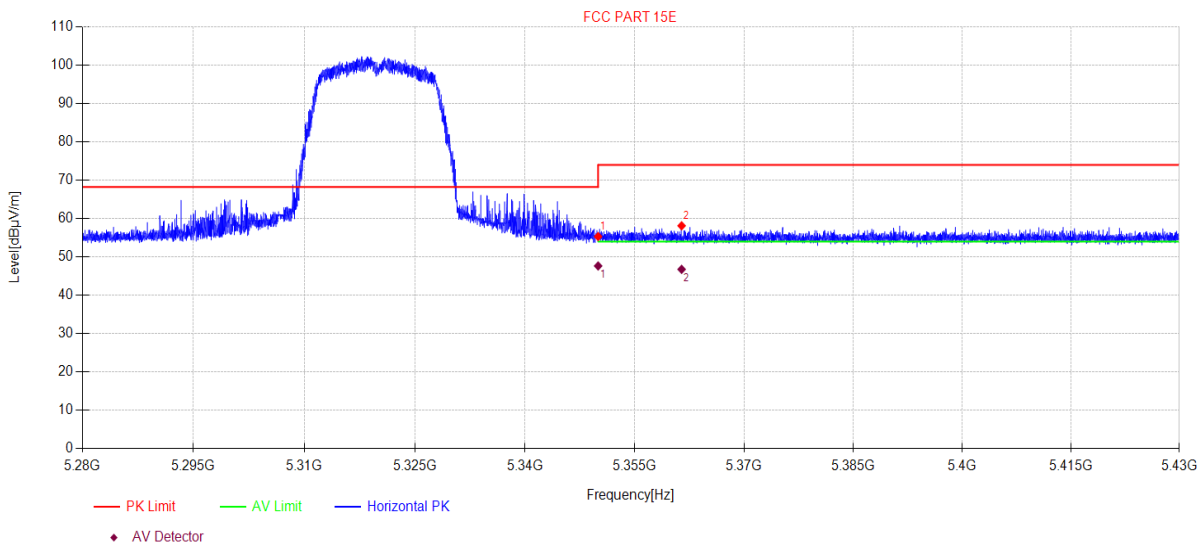
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\46  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.75	5.69	32.90	-30.03	55.31	74.00	18.69	PK	Horizontal
2	5361.42	49.55	5.69	32.90	-30.03	58.11	74.00	15.89	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	39.08	5.69	32.90	-30.03	47.64	54.00	6.36	AV	Horizontal
2	5361.42	38.20	5.69	32.90	-30.03	46.76	54.00	7.24	AV	Horizontal

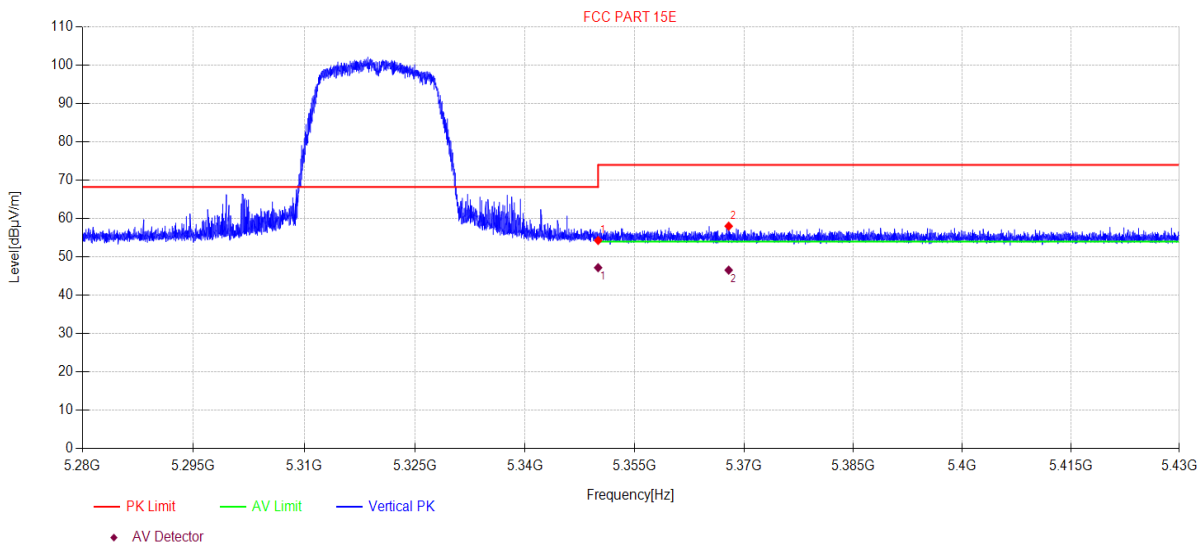
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\47  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	45.72	5.69	32.90	-30.03	54.28	74.00	19.72	PK	Vertical
2	5367.87	49.45	5.69	32.90	-30.03	58.01	74.00	15.99	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	38.64	5.69	32.90	-30.03	47.20	54.00	6.80	AV	Vertical
2	5367.87	37.99	5.69	32.90	-30.03	46.55	54.00	7.45	AV	Vertical

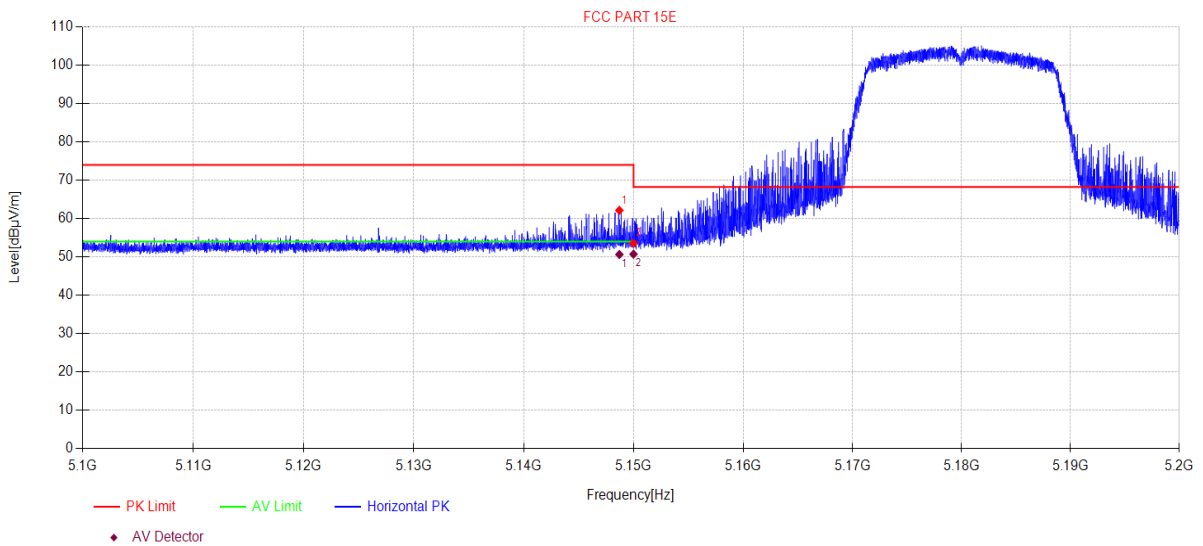
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\28  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.71	53.71	5.58	32.90	-30.06	62.13	74.00	11.87	PK	Horizontal
2	5150.00	45.13	5.59	32.90	-30.06	53.56	68.20	14.64	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.71	42.21	5.58	32.90	-30.06	50.63	54.00	3.37	AV	Horizontal
2	5150.00	42.29	5.59	32.90	-30.06	50.72	54.00	3.28	AV	Horizontal

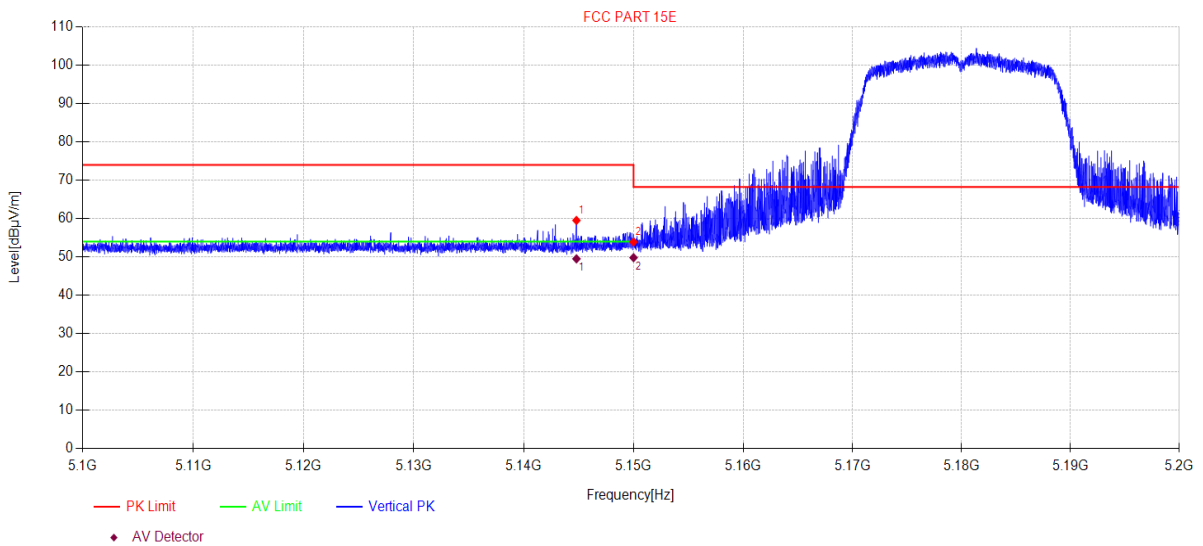
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\29  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.80	51.09	5.58	32.90	-30.06	59.51	74.00	14.49	PK	Vertical
2	5150.00	45.45	5.59	32.90	-30.06	53.88	68.20	14.32	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.80	41.09	5.58	32.90	-30.06	49.51	54.00	4.49	AV	Vertical
2	5150.00	41.38	5.59	32.90	-30.06	49.81	54.00	4.19	AV	Vertical

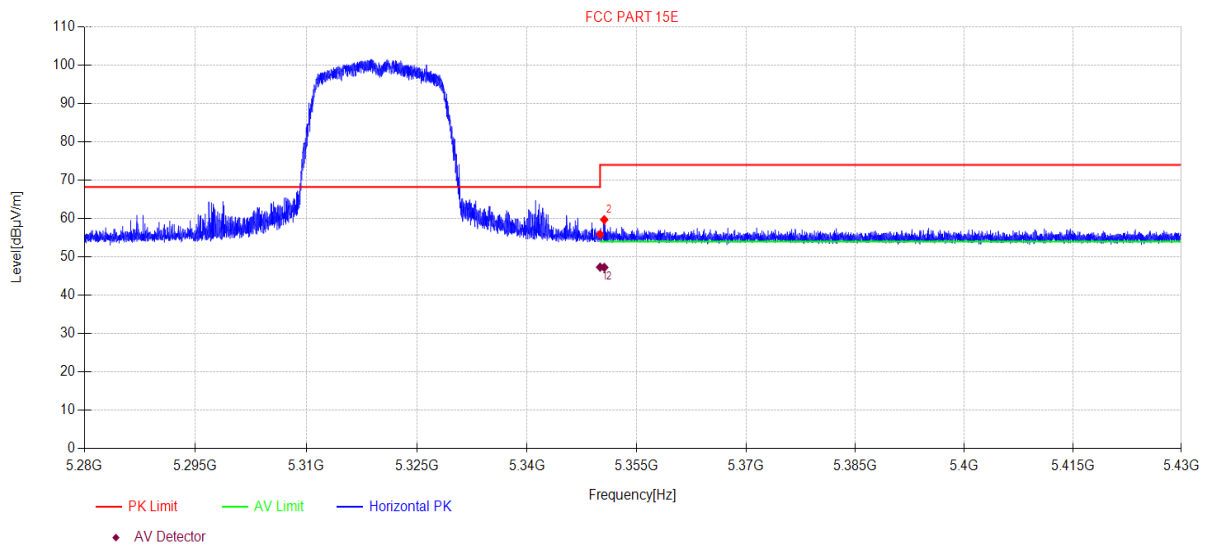
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\48  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	47.34	5.69	32.90	-30.03	55.90	74.00	18.10	PK	Horizontal
2	5350.56	51.16	5.69	32.90	-30.03	59.72	74.00	14.28	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	38.77	5.69	32.90	-30.03	47.33	54.00	6.67	AV	Horizontal
2	5350.56	38.71	5.69	32.90	-30.03	47.27	54.00	6.73	AV	Horizontal

**Note:**

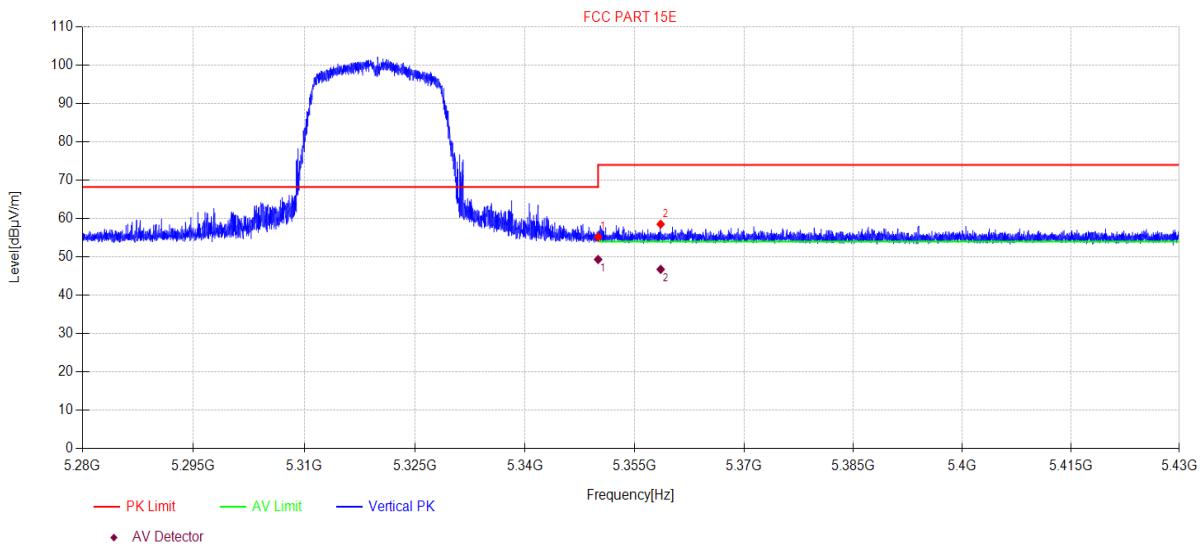
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\49  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.63	5.69	32.90	-30.03	55.19	74.00	18.81	PK	Vertical
2	5358.56	49.98	5.69	32.90	-30.03	58.54	74.00	15.46	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	40.77	5.69	32.90	-30.03	49.33	54.00	4.67	AV	Vertical
2	5358.56	38.20	5.69	32.90	-30.03	46.76	54.00	7.24	AV	Vertical

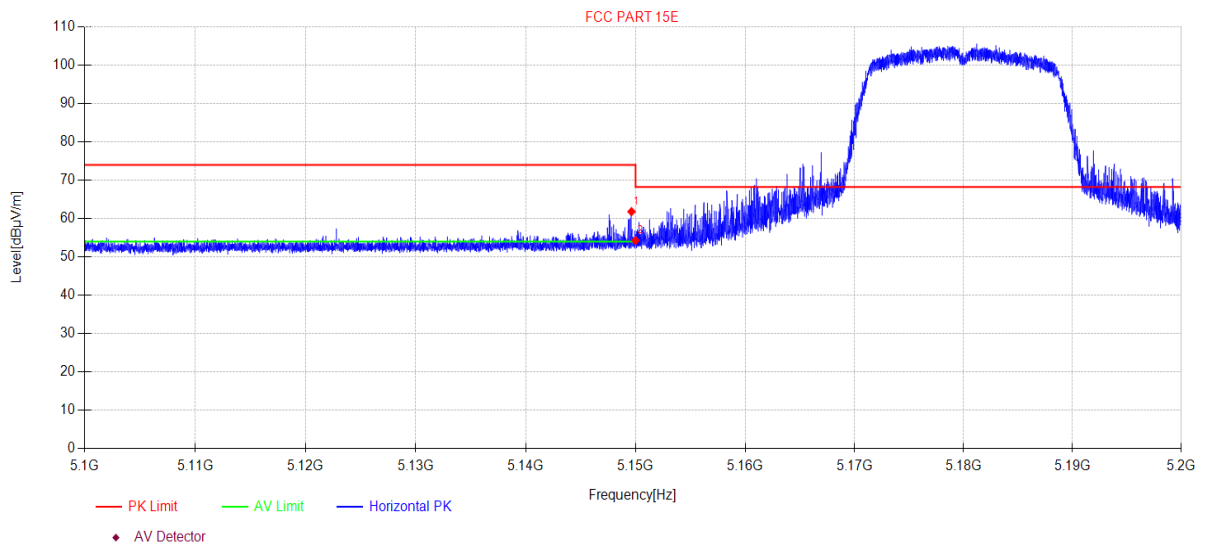
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\30  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5149.64	53.38	5.58	32.90	-30.06	61.80	74.00	12.20	PK	Horizontal
2	5150.00	45.85	5.59	32.90	-30.06	54.28	68.20	13.92	PK	Horizontal

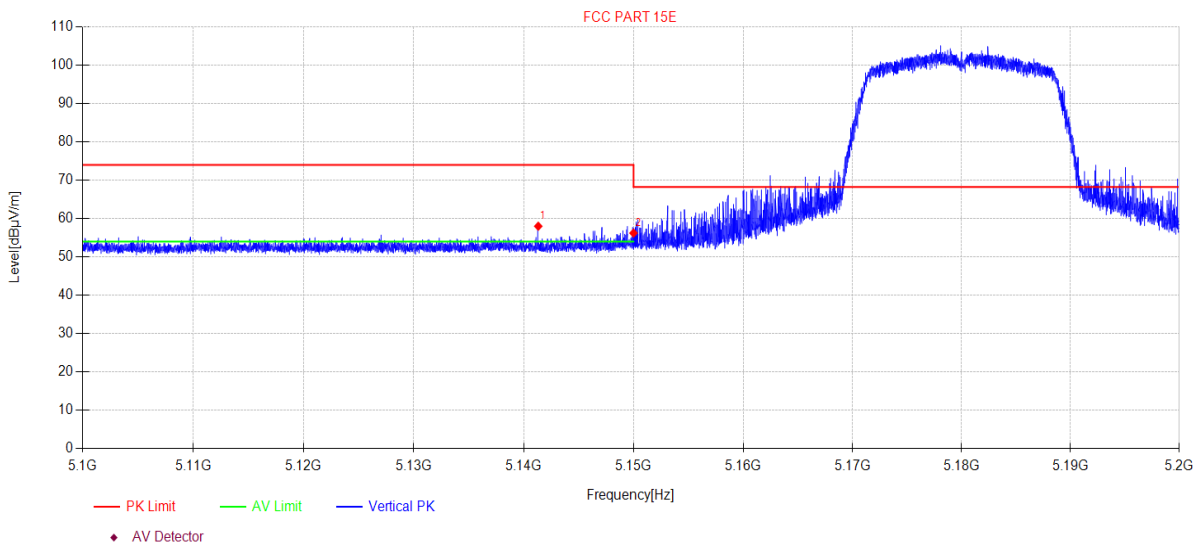
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5180MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\31  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5141.32	49.57	5.58	32.90	-30.06	57.99	74.00	16.01	PK	Vertical
2	5150.00	47.78	5.59	32.90	-30.06	56.21	68.20	11.99	PK	Vertical

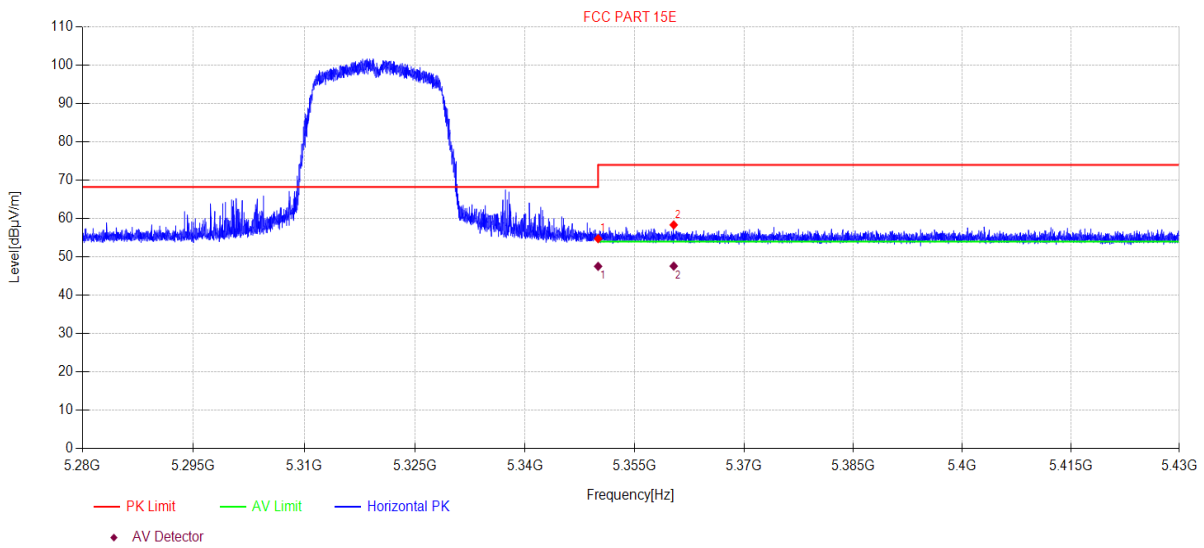
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\50  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.19	5.69	32.90	-30.03	54.75	74.00	19.25	PK	Horizontal
2	5360.34	49.78	5.69	32.90	-30.03	58.34	74.00	15.66	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	38.99	5.69	32.90	-30.03	47.55	54.00	6.45	AV	Horizontal
2	5360.34	39.04	5.69	32.90	-30.03	47.60	54.00	6.40	AV	Horizontal

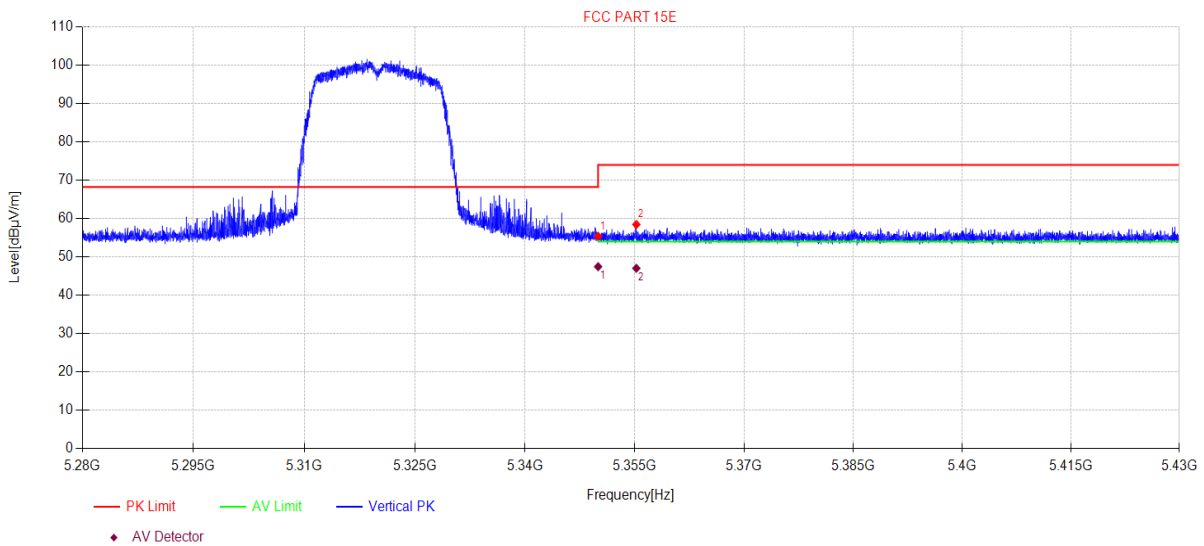
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5320MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\51  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.83	5.69	32.90	-30.03	55.39	74.00	18.61	PK	Vertical
2	5355.23	49.88	5.69	32.90	-30.03	58.44	74.00	15.56	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	38.89	5.69	32.90	-30.03	47.45	54.00	6.55	AV	Vertical
2	5355.23	38.47	5.69	32.90	-30.03	47.03	54.00	6.97	AV	Vertical

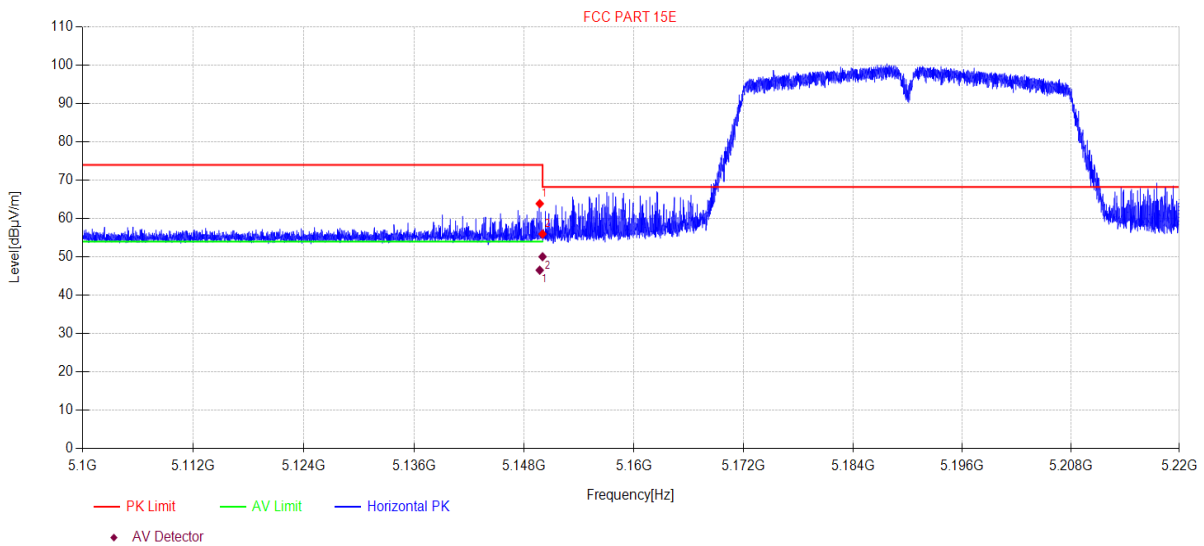
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5190MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\34  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5149.69	55.46	5.58	32.90	-30.06	63.88	74.00	10.12	PK	Horizontal
2	5150.00	47.54	5.59	32.90	-30.06	55.97	68.20	12.23	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5149.69	38.11	5.58	32.90	-30.06	46.53	54.00	7.47	AV	Horizontal
2	5150.00	41.62	5.59	32.90	-30.06	50.05	54.00	3.95	AV	Horizontal

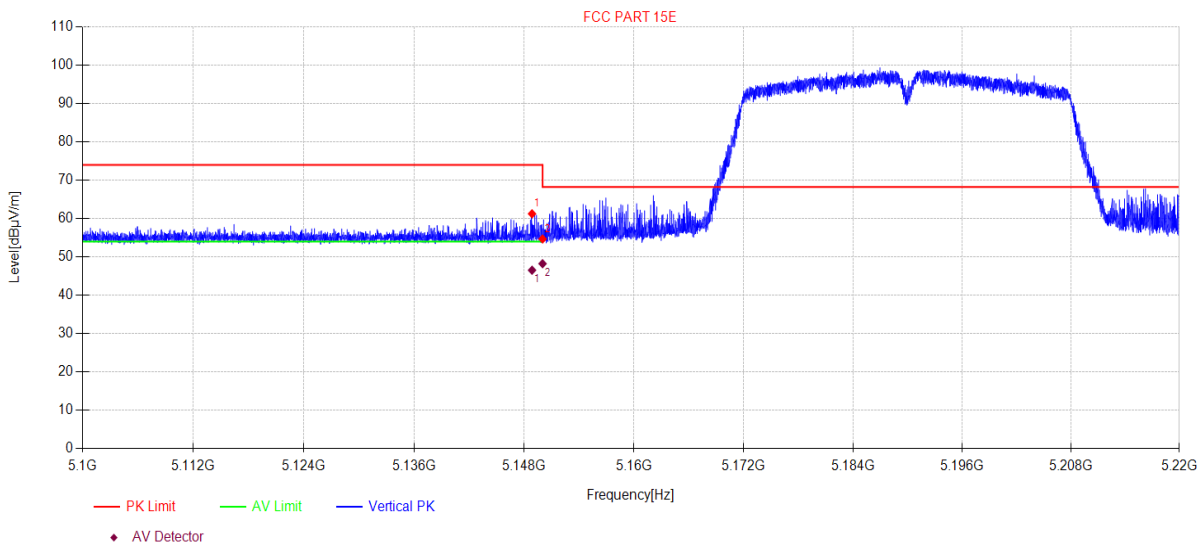
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5190MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\35  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.85	52.82	5.58	32.90	-30.06	61.24	74.00	12.76	PK	Vertical
2	5150.00	46.25	5.59	32.90	-30.06	54.68	68.20	13.52	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.85	38.11	5.58	32.90	-30.06	46.53	54.00	7.47	AV	Vertical
2	5150.00	39.80	5.59	32.90	-30.06	48.23	54.00	5.77	AV	Vertical

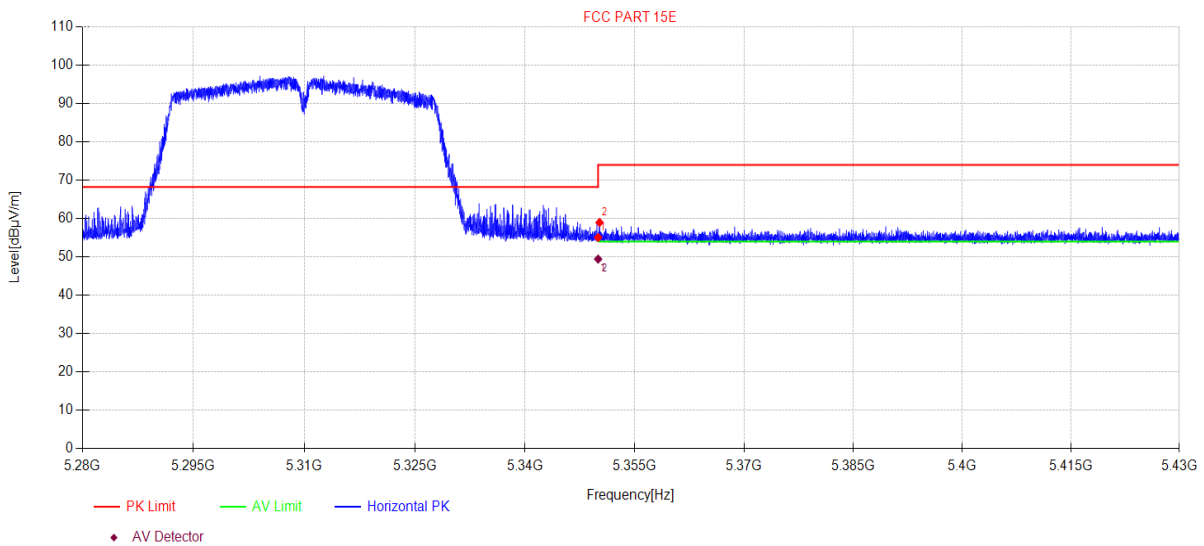
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5310MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\42  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.51	5.69	32.90	-30.03	55.07	74.00	18.93	PK	Horizontal
2	5350.20	50.41	5.69	32.90	-30.03	58.97	74.00	15.03	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	40.87	5.69	32.90	-30.03	49.43	54.00	4.57	AV	Horizontal
2	5350.20	40.80	5.69	32.90	-30.03	49.36	54.00	4.64	AV	Horizontal

**Note:**

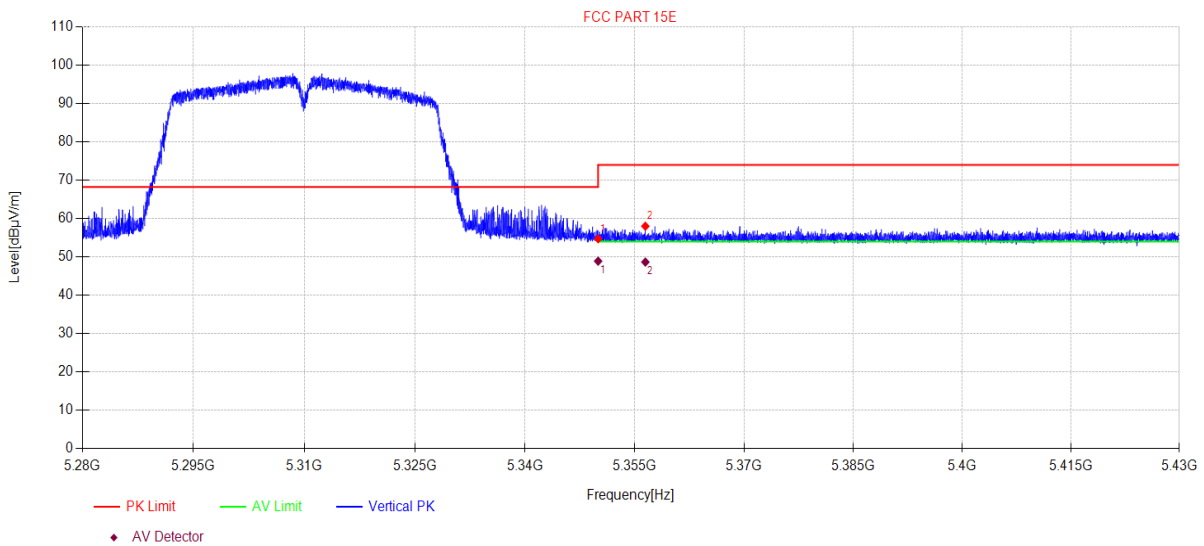
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5310MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\43  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.15	5.69	32.90	-30.03	54.71	74.00	19.29	PK	Vertical
2	5356.46	49.44	5.69	32.90	-30.03	58.00	74.00	16.00	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	40.33	5.69	32.90	-30.03	48.89	54.00	5.11	AV	Vertical
2	5356.46	40.10	5.69	32.90	-30.03	48.66	54.00	5.34	AV	Vertical

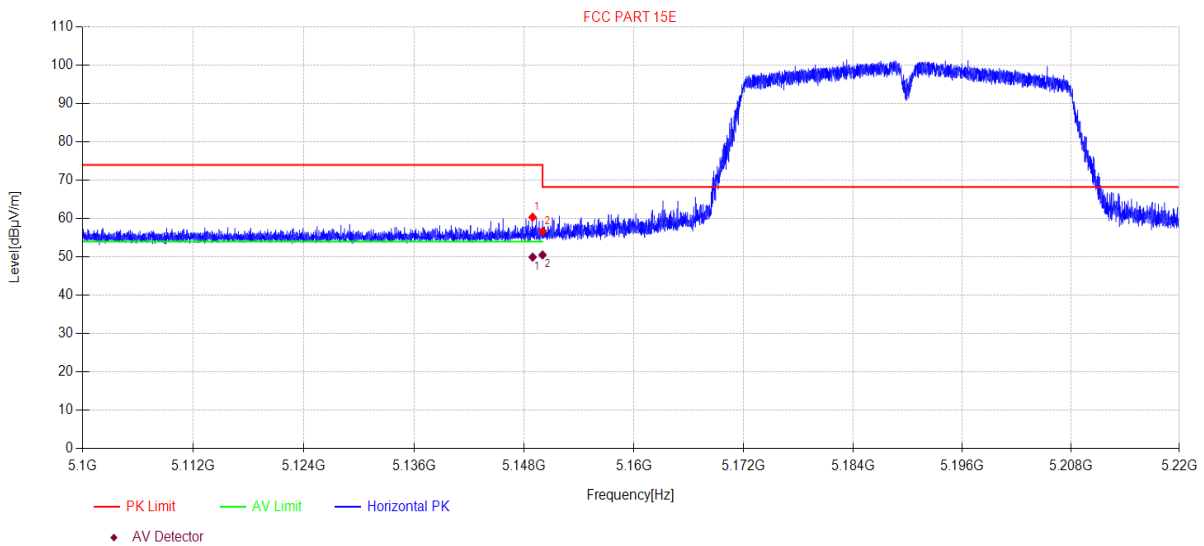
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5190MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\36  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.91	51.94	5.58	32.90	-30.06	60.36	74.00	13.64	PK	Horizontal
2	5150.00	48.24	5.59	32.90	-30.06	56.67	68.20	11.53	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.91	41.52	5.58	32.90	-30.06	49.94	54.00	4.06	AV	Horizontal
2	5150.00	42.08	5.59	32.90	-30.06	50.51	54.00	3.49	AV	Horizontal

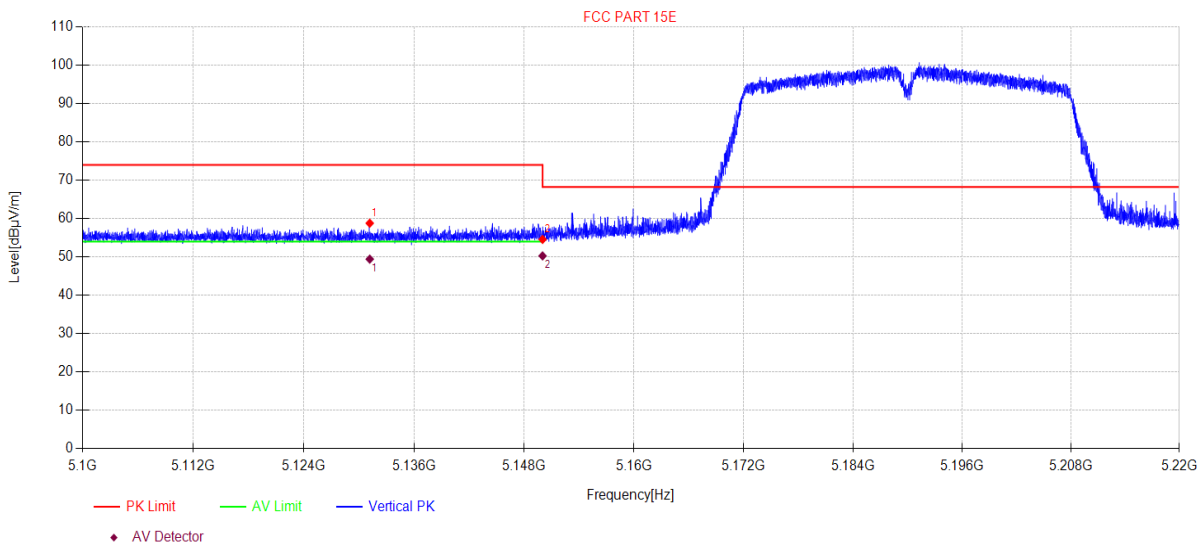
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5190MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\37  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5131.16	50.36	5.58	32.90	-30.06	58.78	74.00	15.22	PK	Vertical
2	5150.00	46.13	5.59	32.90	-30.06	54.56	68.20	13.64	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5131.16	41.00	5.58	32.90	-30.06	49.42	54.00	4.58	AV	Vertical
2	5150.00	41.84	5.59	32.90	-30.06	50.27	54.00	3.73	AV	Vertical

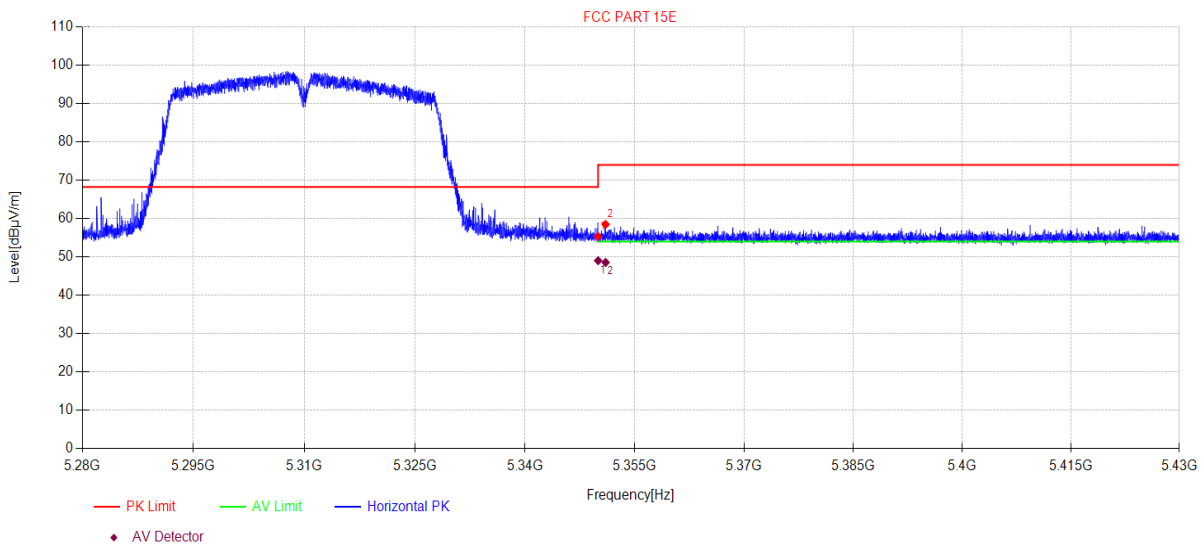
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5310MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\44  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	46.75	5.69	32.90	-30.03	55.31	74.00	18.69	PK	Horizontal
2	5351.03	49.90	5.69	32.90	-30.03	58.46	74.00	15.54	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	40.46	5.69	32.90	-30.03	49.02	54.00	4.98	AV	Horizontal
2	5351.03	40.01	5.69	32.90	-30.03	48.57	54.00	5.43	AV	Horizontal

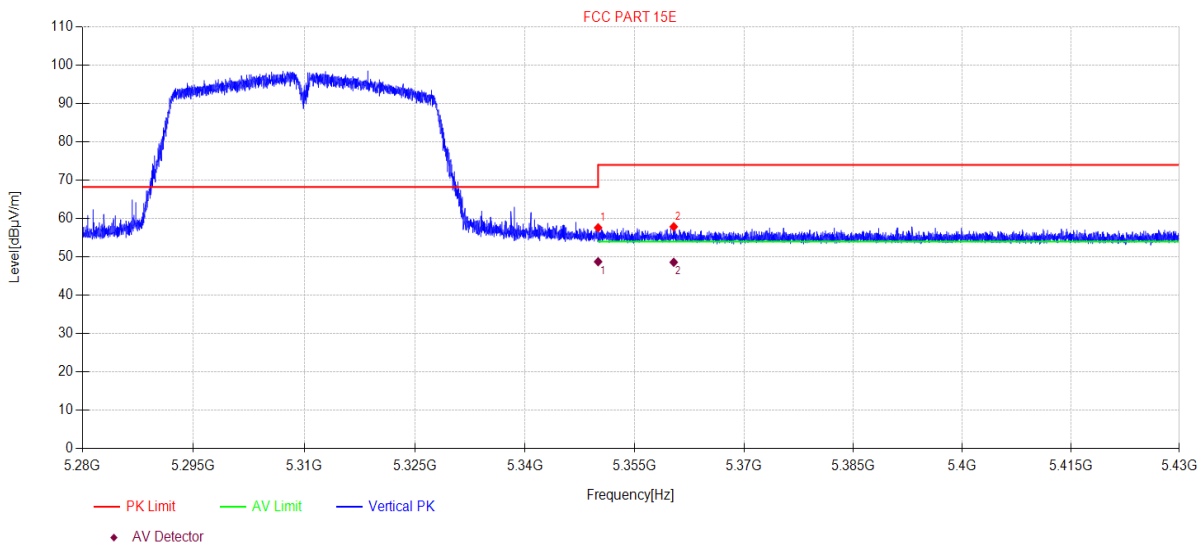
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5310MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\45  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	49.05	5.69	32.90	-30.03	57.61	74.00	16.39	PK	Vertical
2	5360.34	49.30	5.69	32.90	-30.03	57.86	74.00	16.14	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5350.00	40.19	5.69	32.90	-30.03	48.75	54.00	5.25	AV	Vertical
2	5360.34	40.05	5.69	32.90	-30.03	48.61	54.00	5.39	AV	Vertical

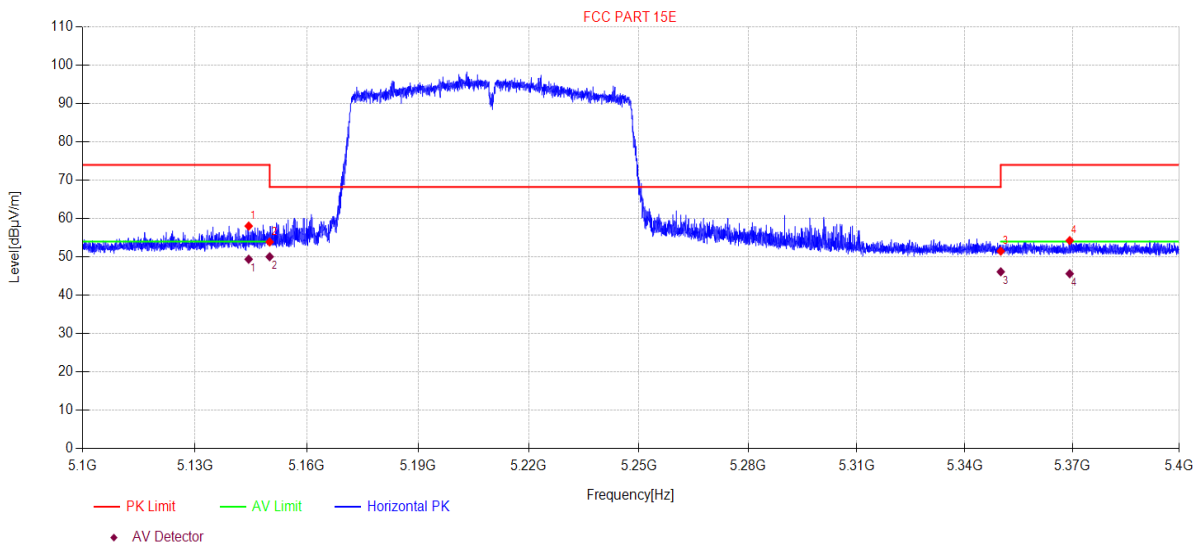
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5210MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\38  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.37	49.62	5.58	32.90	-30.06	58.04	74.00	15.96	PK	Horizontal
2	5150.00	45.45	5.59	32.90	-30.06	53.88	68.20	14.32	PK	Horizontal
3	5350.00	42.93	5.69	32.90	-30.03	51.49	74.00	22.51	PK	Horizontal
4	5369.25	45.70	5.69	32.90	-30.03	54.26	74.00	19.74	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5144.37	40.98	5.58	32.90	-30.06	49.40	54.00	4.60	AV	Horizontal
2	5150.00	41.62	5.59	32.90	-30.06	50.05	54.00	3.95	AV	Horizontal
3	5350.00	37.56	5.69	32.90	-30.03	46.12	54.00	7.88	AV	Horizontal
4	5369.25	37.06	5.69	32.90	-30.03	45.62	54.00	8.38	AV	Horizontal

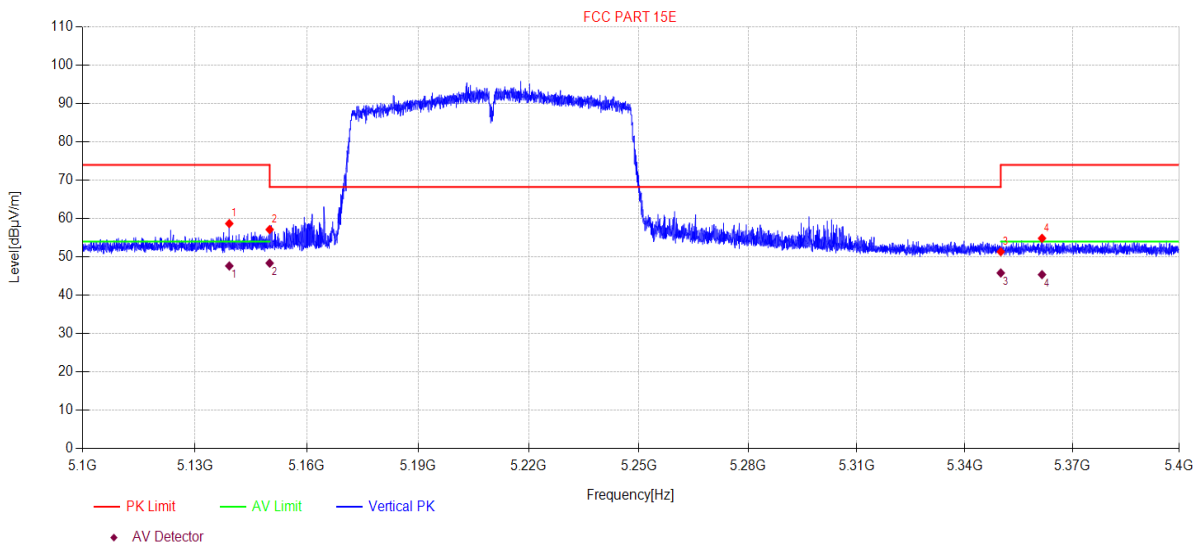
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5210MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\39  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5139.18	50.27	5.58	32.90	-30.06	58.69	74.00	15.31	PK	Vertical
2	5150.00	48.70	5.59	32.90	-30.06	57.13	68.20	11.07	PK	Vertical
3	5350.00	42.79	5.69	32.90	-30.03	51.35	74.00	22.65	PK	Vertical
4	5361.51	46.28	5.69	32.90	-30.03	54.84	74.00	19.16	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5139.18	39.22	5.58	32.90	-30.06	47.64	54.00	6.36	AV	Vertical
2	5150.00	39.95	5.59	32.90	-30.06	48.38	54.00	5.62	AV	Vertical
3	5350.00	37.26	5.69	32.90	-30.03	45.82	54.00	8.18	AV	Vertical
4	5361.51	36.83	5.69	32.90	-30.03	45.39	54.00	8.61	AV	Vertical

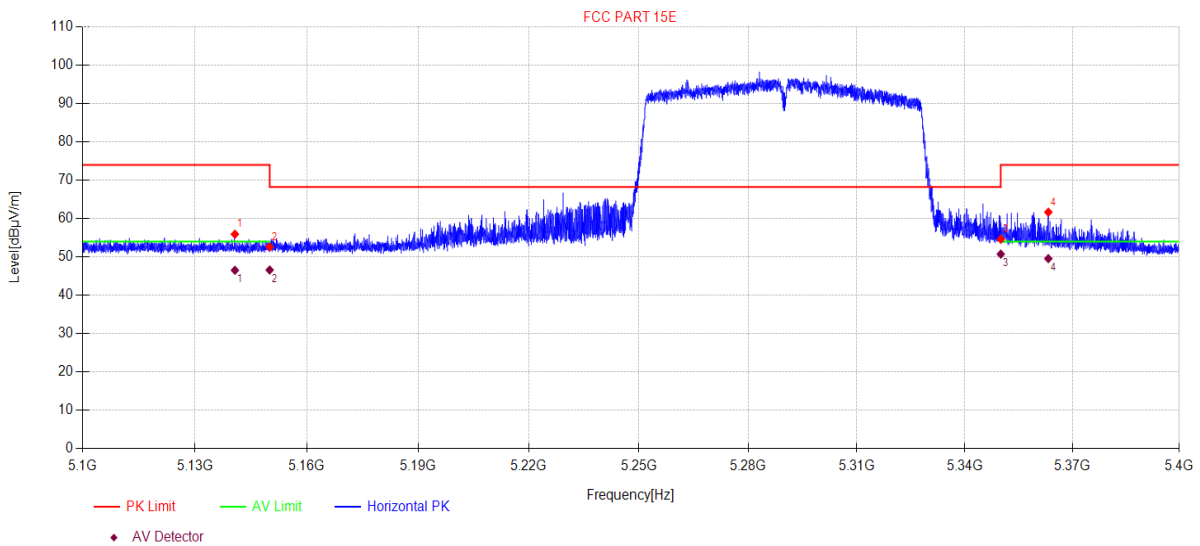
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5290MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\40  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5140.68	47.50	5.58	32.90	-30.06	55.92	74.00	18.08	PK	Horizontal
2	5150.00	44.17	5.59	32.90	-30.06	52.60	68.20	15.60	PK	Horizontal
3	5350.00	46.05	5.69	32.90	-30.03	54.61	74.00	19.39	PK	Horizontal
4	5363.28	53.10	5.69	32.90	-30.03	61.66	74.00	12.34	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5140.68	38.10	5.58	32.90	-30.06	46.52	54.00	7.48	AV	Horizontal
2	5150.00	38.16	5.59	32.90	-30.06	46.59	54.00	7.41	AV	Horizontal
3	5350.00	42.18	5.69	32.90	-30.03	50.74	54.00	3.26	AV	Horizontal
4	5363.28	41.00	5.69	32.90	-30.03	49.56	54.00	4.44	AV	Horizontal

**Note:**

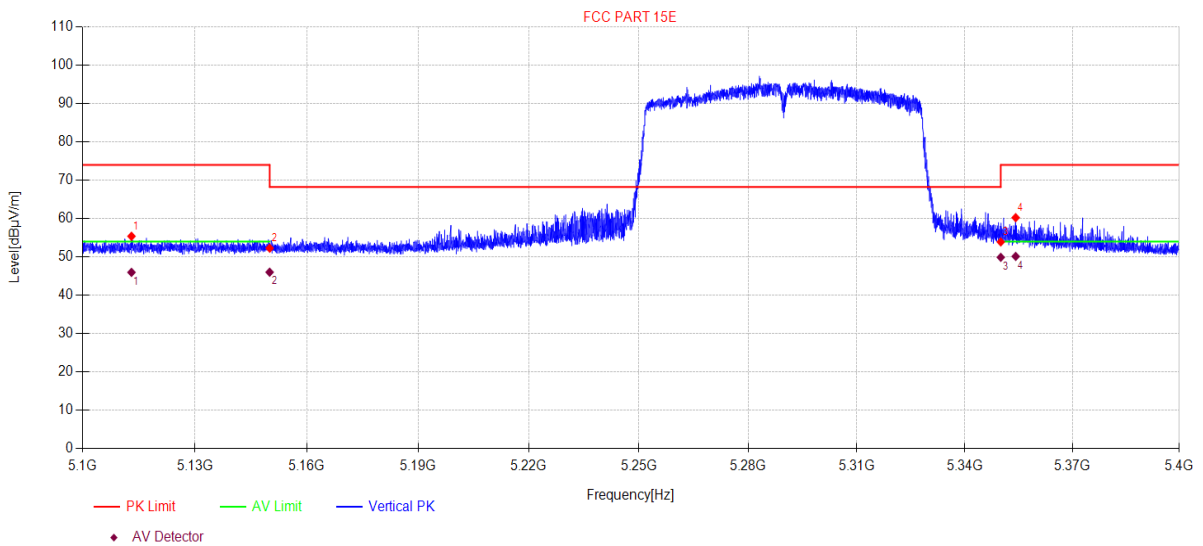
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5290MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\41  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5113.05	46.99	5.57	32.90	-30.07	55.39	74.00	18.61	PK	Vertical
2	5150.00	43.84	5.59	32.90	-30.06	52.27	68.20	15.93	PK	Vertical
3	5350.00	45.34	5.69	32.90	-30.03	53.90	74.00	20.10	PK	Vertical
4	5354.16	51.67	5.69	32.90	-30.03	60.23	74.00	13.77	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5113.05	37.57	5.57	32.90	-30.07	45.97	54.00	8.03	AV	Vertical
2	5150.00	37.59	5.59	32.90	-30.06	46.02	54.00	7.98	AV	Vertical
3	5350.00	41.33	5.69	32.90	-30.03	49.89	54.00	4.11	AV	Vertical
4	5354.16	41.58	5.69	32.90	-30.03	50.14	54.00	3.86	AV	Vertical

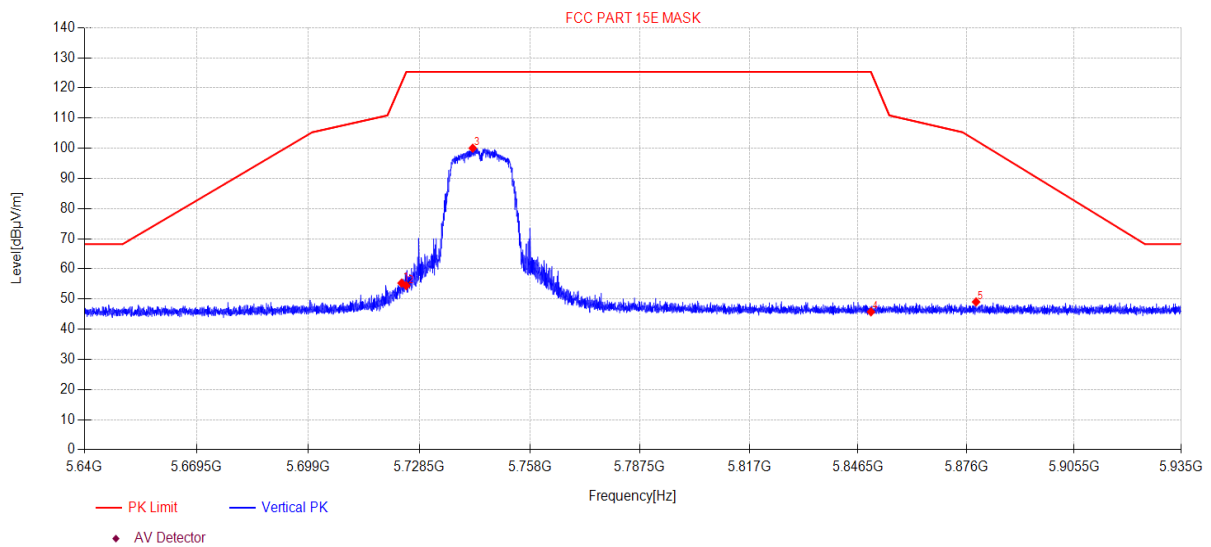
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5745MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\8  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.75	55.96	5.87	33.45	-39.99	55.29	121.70	66.41	PK	Vertical
2	5725.00	55.10	5.87	33.45	-39.99	54.43	125.30	70.87	PK	Vertical
3	5742.72	100.65	5.88	33.49	-39.98	100.04	125.30	25.26	PK	Vertical
4	5850.00	45.98	5.94	33.80	-39.97	45.75	125.27	79.52	PK	Vertical
5	5878.66	49.20	5.95	33.86	-39.97	49.04	102.59	53.55	PK	Vertical

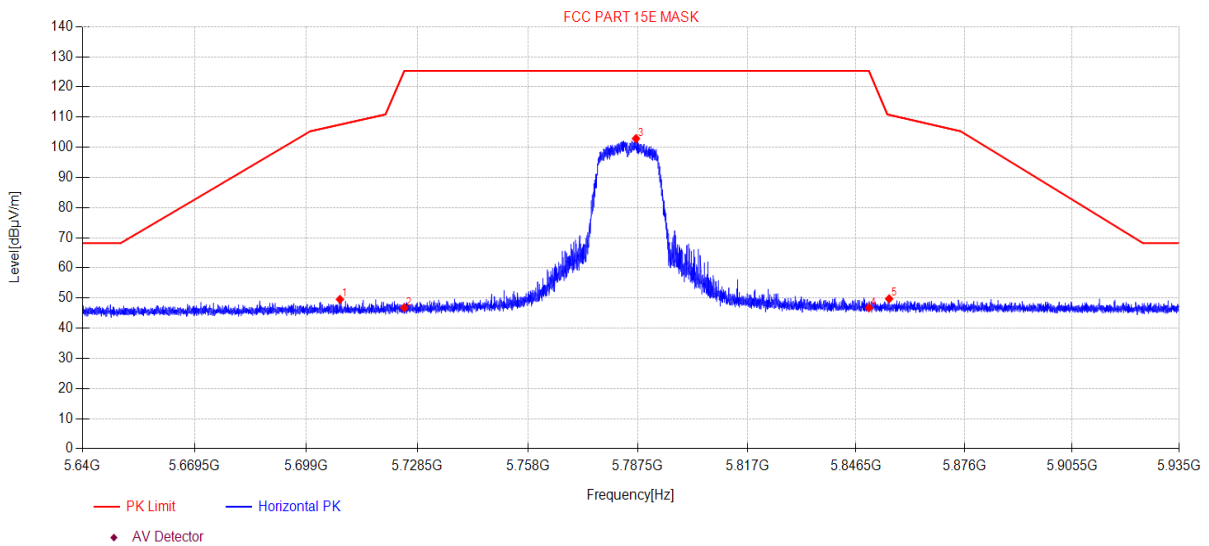
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5785MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\9  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5707.91	50.26	5.86	33.42	-39.99	49.55	107.51	57.96	PK	Horizontal
2	5725.00	47.43	5.87	33.45	-39.99	46.76	125.30	78.54	PK	Horizontal
3	5787.00	103.30	5.90	33.65	-39.98	102.87	125.30	22.43	PK	Horizontal
4	5850.00	46.98	5.94	33.80	-39.97	46.75	125.27	78.52	PK	Horizontal
5	5855.50	49.97	5.94	33.81	-39.97	49.75	110.76	61.01	PK	Horizontal

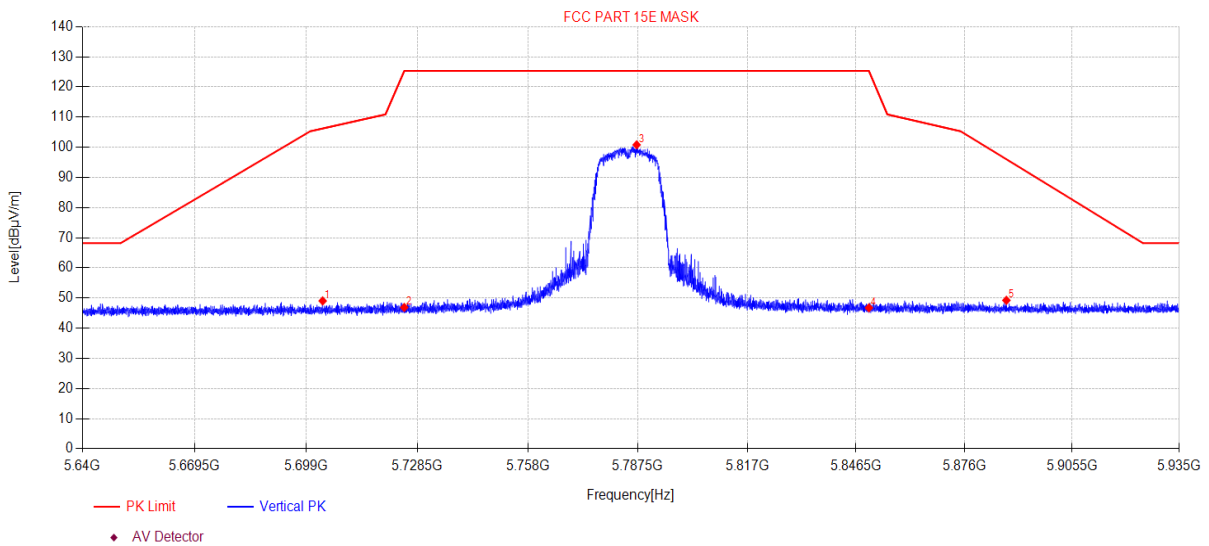
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5785MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\10  
**Memo:** Sample Number:S23082411-02 Power Setting:16

### Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5703.34	49.76	5.86	33.41	-39.99	49.04	106.23	57.19	PK	Vertical
2	5725.00	47.56	5.87	33.45	-39.99	46.89	125.30	78.41	PK	Vertical
3	5787.18	101.24	5.90	33.65	-39.98	100.81	125.30	24.49	PK	Vertical
4	5850.00	46.99	5.94	33.80	-39.97	46.76	125.27	78.51	PK	Vertical
5	5887.51	49.37	5.95	33.88	-39.96	49.24	96.02	46.78	PK	Vertical

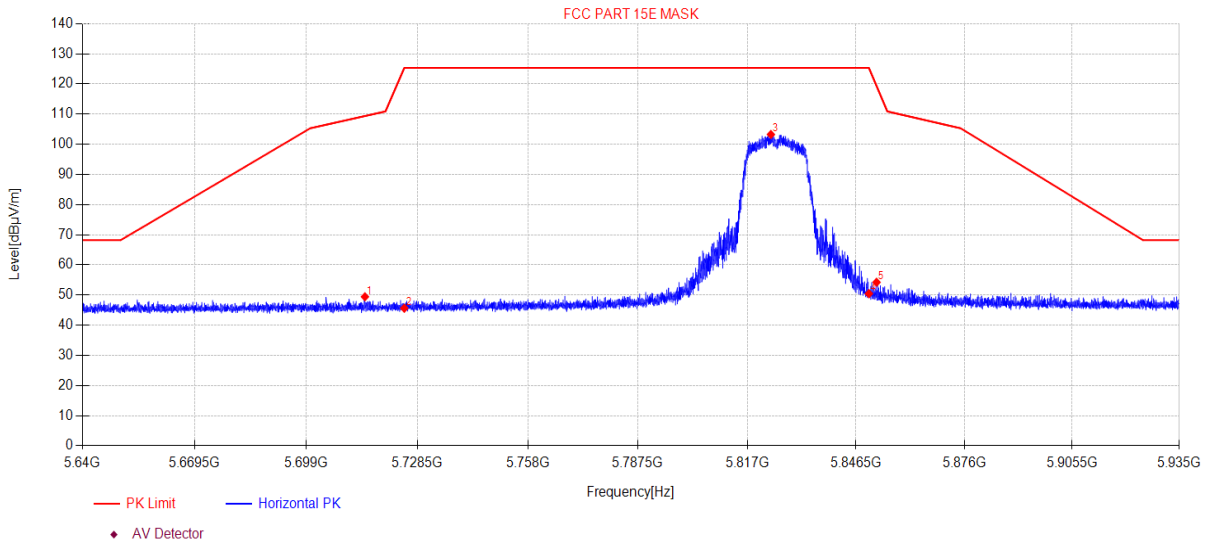
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5825MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\11  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5714.55	50.11	5.87	33.43	-39.99	49.42	109.37	59.95	PK	Horizontal
2	5725.00	46.29	5.87	33.45	-39.99	45.62	125.30	79.68	PK	Horizontal
3	5823.40	103.56	5.92	33.75	-39.97	103.26	125.30	22.04	PK	Horizontal
4	5850.00	50.69	5.94	33.80	-39.97	50.46	125.27	74.81	PK	Horizontal
5	5852.08	54.47	5.94	33.80	-39.97	54.24	119.32	65.08	PK	Horizontal

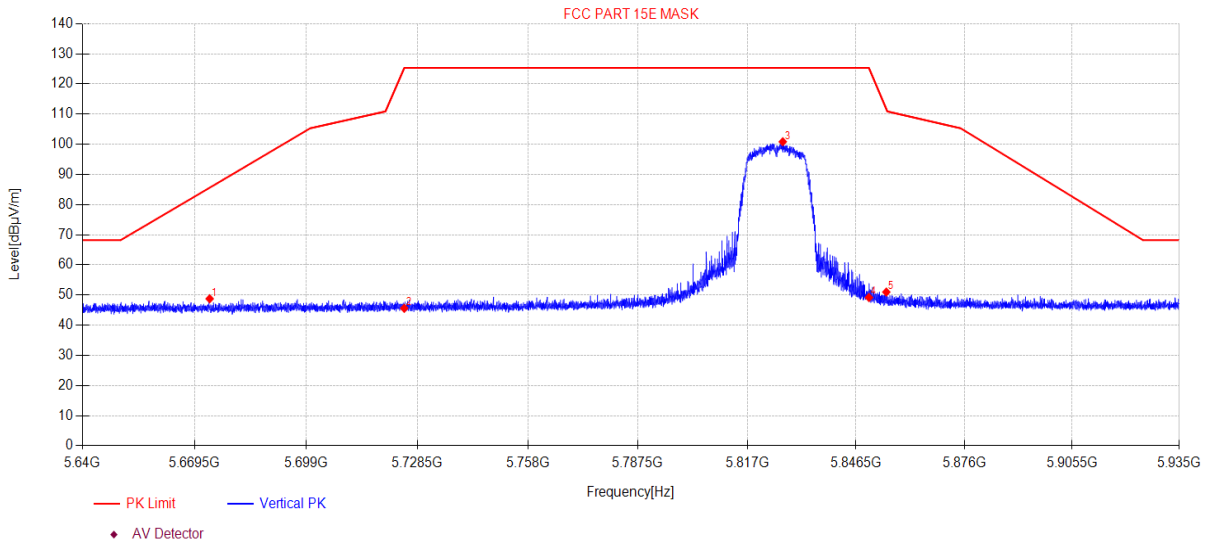
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13 **Tested By:** Bairong  
**EUT:** Multimedia **Model Number:** Kansas City 100  
**Test Mode:** 11A TX 5825MHz **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\12  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5673.45	49.61	5.85	33.29	-39.99	48.76	85.60	36.84	PK	Vertical
2	5725.00	46.27	5.87	33.45	-39.99	45.60	125.30	79.70	PK	Vertical
3	5826.62	101.13	5.92	33.75	-39.97	100.83	125.30	24.47	PK	Vertical
4	5850.00	49.40	5.94	33.80	-39.97	49.17	125.27	76.10	PK	Vertical
5	5854.73	51.21	5.94	33.81	-39.97	50.99	111.68	60.69	PK	Vertical

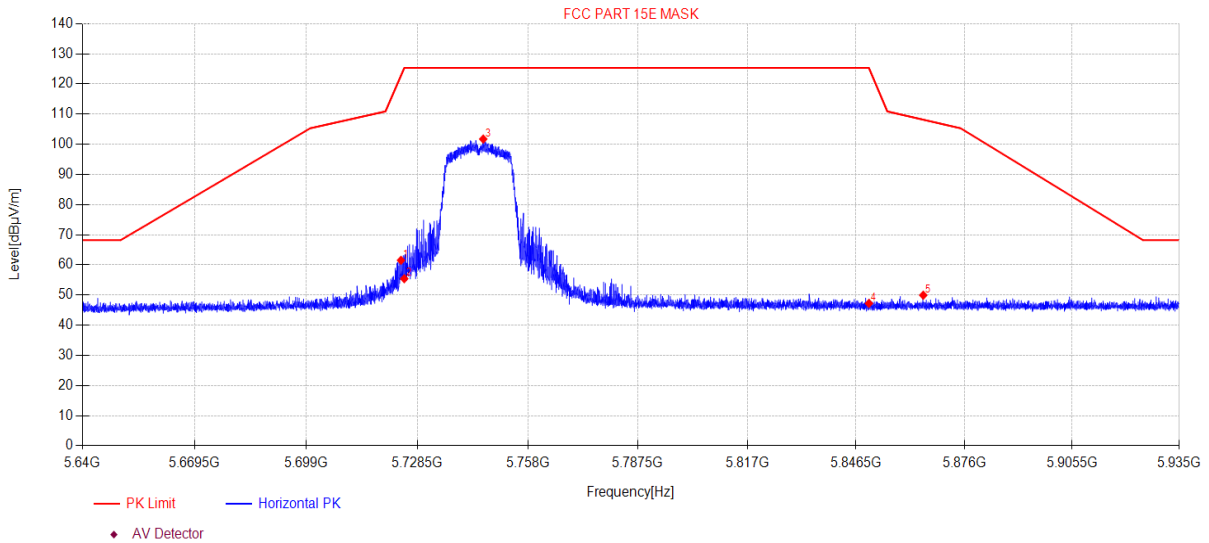
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5745MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\13  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5724.13	62.19	5.87	33.45	-39.99	61.52	122.81	61.29	PK	Horizontal
2	5725.00	56.09	5.87	33.45	-39.99	55.42	125.30	69.88	PK	Horizontal
3	5746.05	102.34	5.88	33.49	-39.98	101.73	125.30	23.57	PK	Horizontal
4	5850.00	47.47	5.94	33.80	-39.97	47.24	125.27	78.03	PK	Horizontal
5	5864.79	50.14	5.94	33.83	-39.97	49.94	108.16	58.22	PK	Horizontal

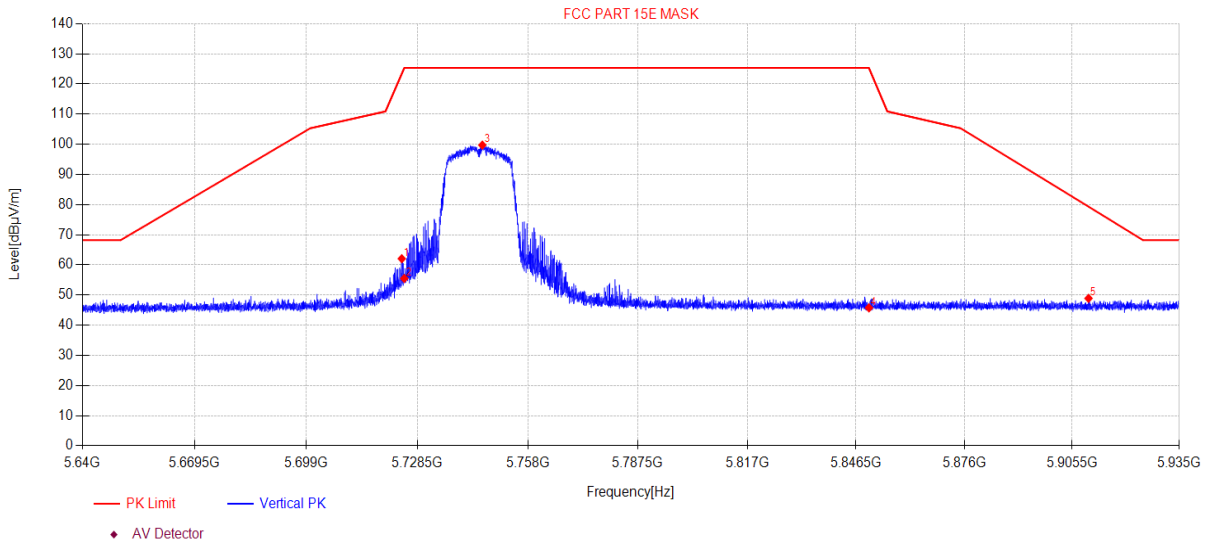
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5745MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\14  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5724.34	62.72	5.87	33.45	-39.99	62.05	123.40	61.35	PK	Vertical
2	5725.00	56.17	5.87	33.45	-39.99	55.50	125.30	69.80	PK	Vertical
3	5745.82	100.34	5.88	33.49	-39.98	99.73	125.30	25.57	PK	Vertical
4	5850.00	45.98	5.94	33.80	-39.97	45.75	125.27	79.52	PK	Vertical
5	5910.01	48.97	5.97	33.92	-39.96	48.90	79.32	30.42	PK	Vertical

**Note:**

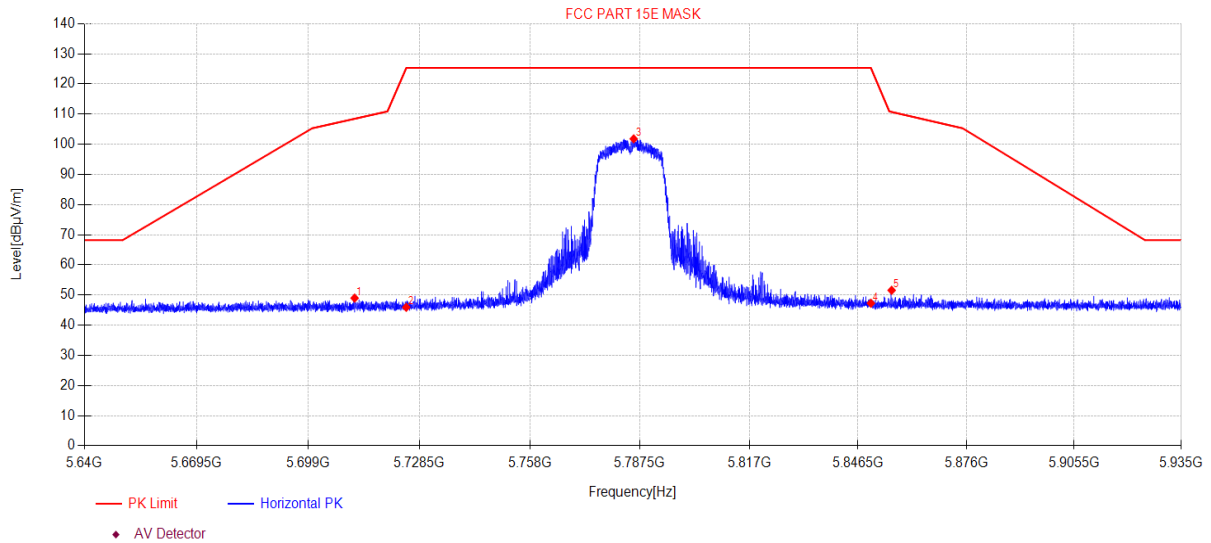
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5785MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\15  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5711.27	49.69	5.87	33.42	-39.99	48.99	108.46	59.47	PK	Horizontal
2	5725.00	46.60	5.87	33.45	-39.99	45.93	125.30	79.37	PK	Horizontal
3	5785.85	102.24	5.90	33.64	-39.98	101.80	125.30	23.50	PK	Horizontal
4	5850.00	47.51	5.94	33.80	-39.97	47.28	125.27	77.99	PK	Horizontal
5	5855.65	51.79	5.94	33.81	-39.97	51.57	110.72	59.15	PK	Horizontal

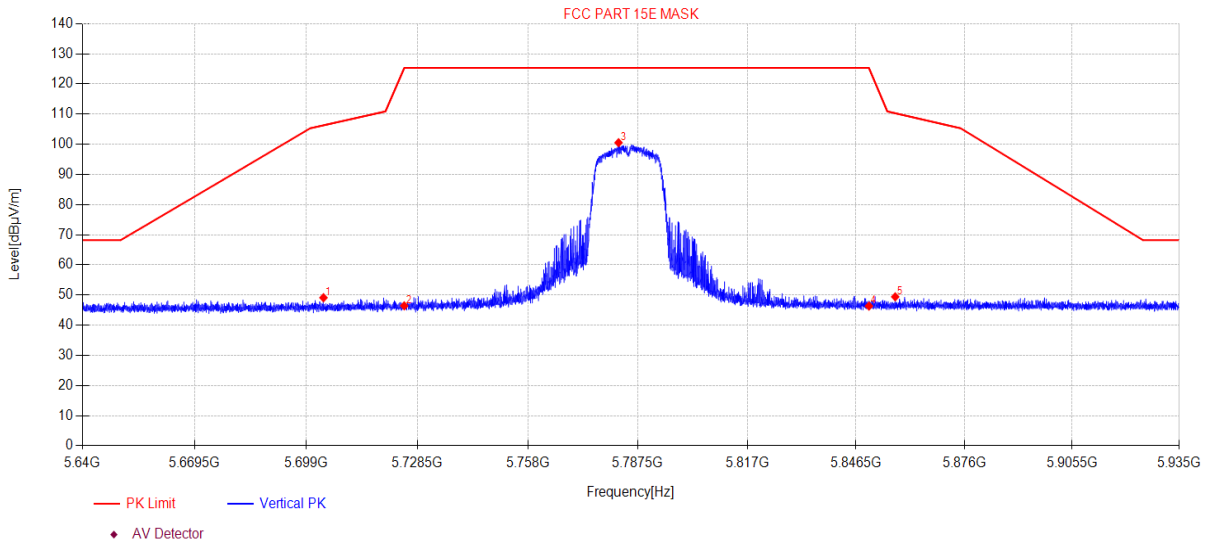
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5785MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\16  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5703.54	49.83	5.86	33.41	-39.99	49.11	106.29	57.18	PK	Vertical
2	5725.00	47.09	5.87	33.45	-39.99	46.42	125.30	78.88	PK	Vertical
3	5782.31	100.98	5.90	33.63	-39.98	100.53	125.30	24.77	PK	Vertical
4	5850.00	46.57	5.94	33.80	-39.97	46.34	125.27	78.93	PK	Vertical
5	5857.15	49.62	5.94	33.81	-39.97	49.40	110.30	60.90	PK	Vertical

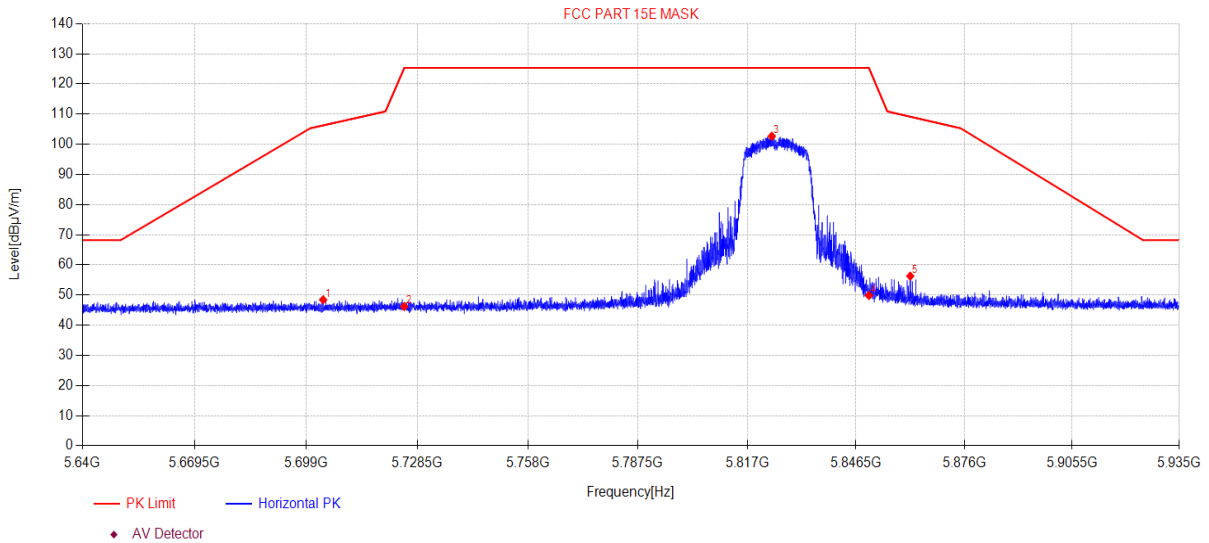
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5825MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\17  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5703.45	49.15	5.86	33.41	-39.99	48.43	106.27	57.84	PK	Horizontal
2	5725.00	46.86	5.87	33.45	-39.99	46.19	125.30	79.11	PK	Horizontal
3	5823.64	102.98	5.92	33.75	-39.97	102.68	125.30	22.62	PK	Horizontal
4	5850.00	50.08	5.94	33.80	-39.97	49.85	125.27	75.42	PK	Horizontal
5	5861.25	56.49	5.94	33.82	-39.97	56.28	109.15	52.87	PK	Horizontal

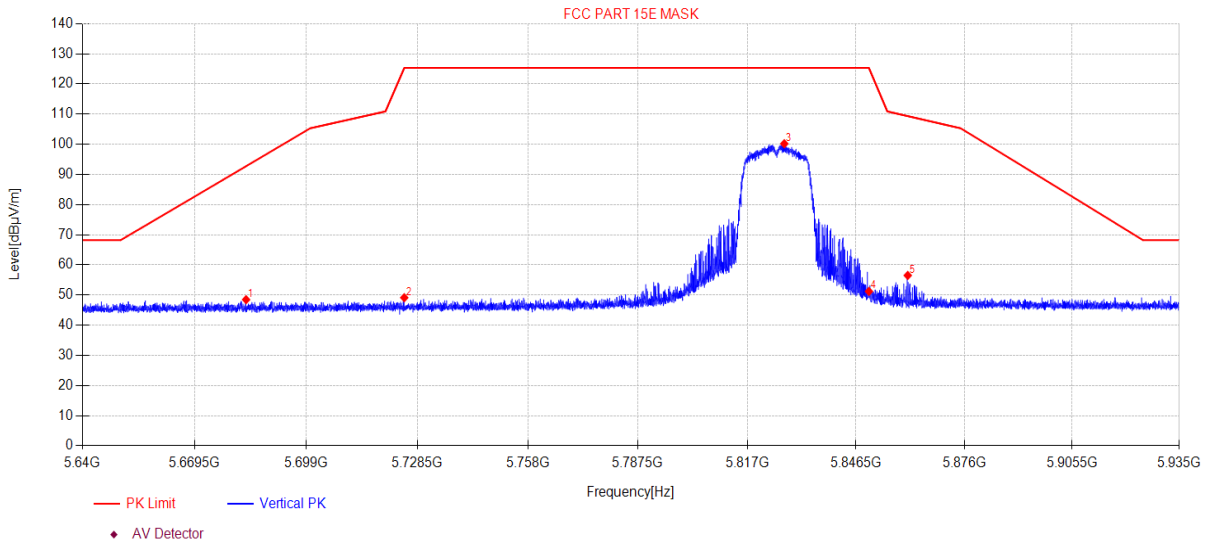
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N20 TX 5825MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\18  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5683.07	49.28	5.85	33.33	-39.99	48.47	92.74	44.27	PK	Vertical
2	5725.00	49.79	5.87	33.45	-39.99	49.12	125.30	76.18	PK	Vertical
3	5827.03	100.47	5.92	33.75	-39.97	100.17	125.30	25.13	PK	Vertical
4	5850.00	51.44	5.94	33.80	-39.97	51.21	125.27	74.06	PK	Vertical
5	5860.57	56.71	5.94	33.82	-39.97	56.50	109.34	52.84	PK	Vertical

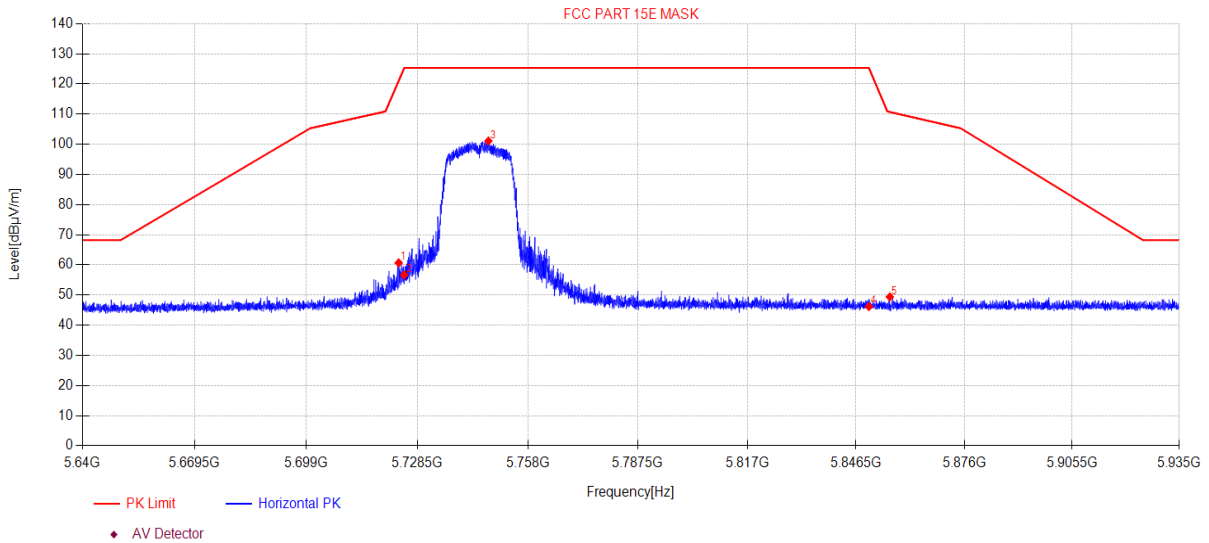
**Note:**

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5745MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\19  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.51	61.34	5.87	33.45	-39.99	60.67	121.02	60.35	PK	Horizontal
2	5725.00	57.32	5.87	33.45	-39.99	56.65	125.30	68.65	PK	Horizontal
3	5747.44	101.70	5.88	33.49	-39.98	101.09	125.30	24.21	PK	Horizontal
4	5850.00	46.40	5.94	33.80	-39.97	46.17	125.27	79.10	PK	Horizontal
5	5855.67	49.61	5.94	33.81	-39.97	49.39	110.71	61.32	PK	Horizontal

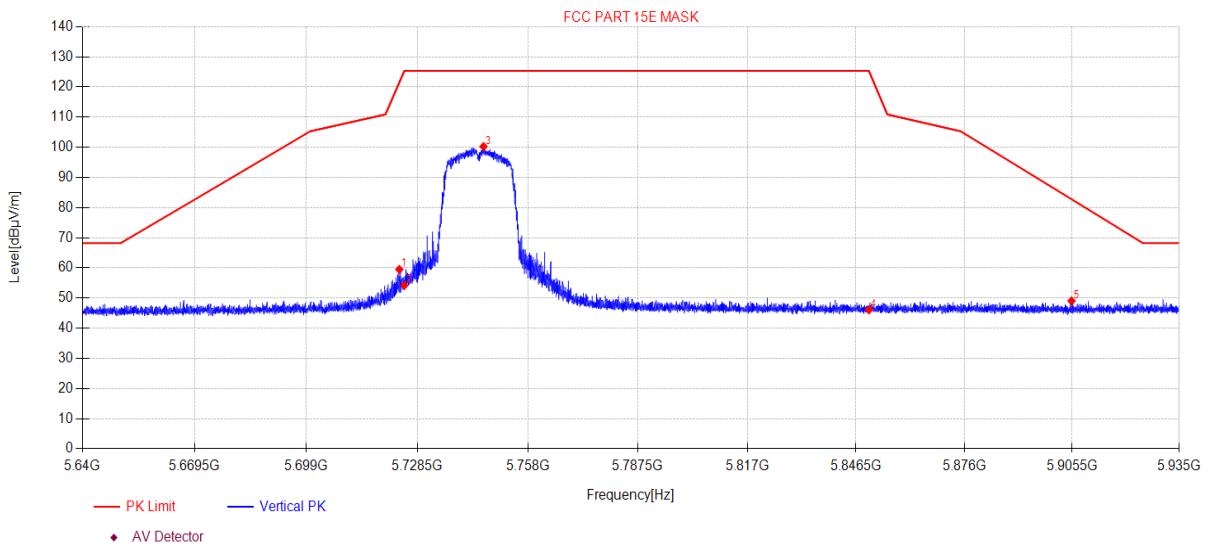
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC20 TX 5745MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8WIFI\20  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5723.69	60.16	5.87	33.45	-39.99	59.49	121.53	62.04	PK	Vertical
2	5725.00	54.85	5.87	33.45	-39.99	54.18	125.30	71.12	PK	Vertical
3	5746.14	100.84	5.88	33.49	-39.98	100.23	125.30	25.07	PK	Vertical
4	5850.00	46.33	5.94	33.80	-39.97	46.10	125.27	79.17	PK	Vertical
5	5905.35	49.13	5.96	33.91	-39.96	49.04	82.78	33.74	PK	Vertical

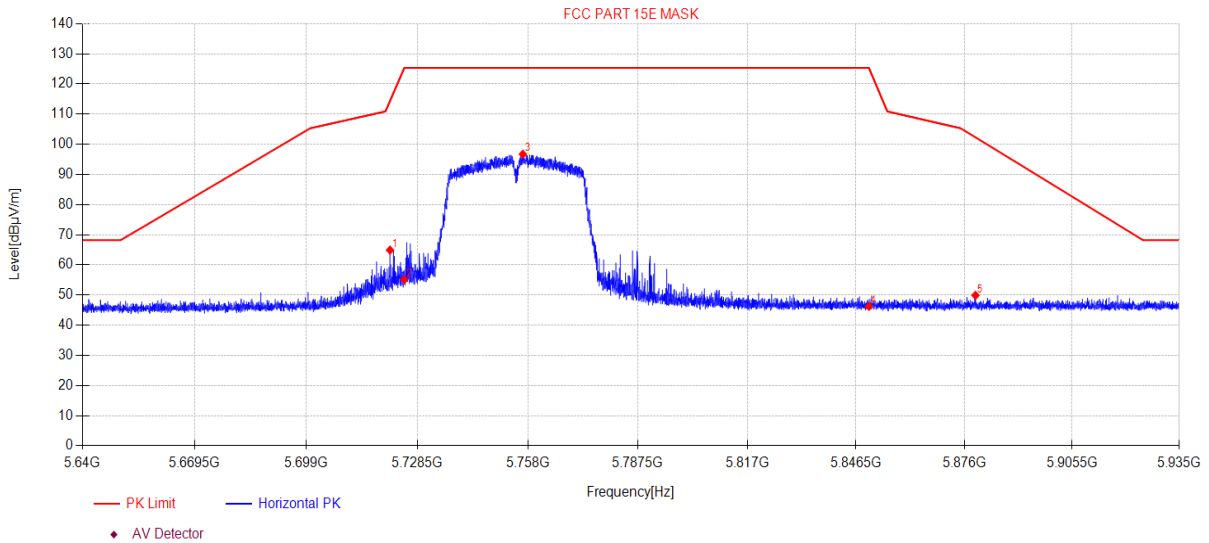
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5755MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\21  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5721.21	65.58	5.87	33.44	-39.99	64.90	114.39	49.49	PK	Horizontal
2	5725.00	55.77	5.87	33.45	-39.99	55.10	125.30	70.20	PK	Horizontal
3	5756.64	97.29	5.89	33.53	-39.98	96.73	125.30	28.57	PK	Horizontal
4	5850.00	46.47	5.94	33.80	-39.97	46.24	125.27	79.03	PK	Horizontal
5	5879.04	50.08	5.95	33.86	-39.97	49.92	102.30	52.38	PK	Horizontal

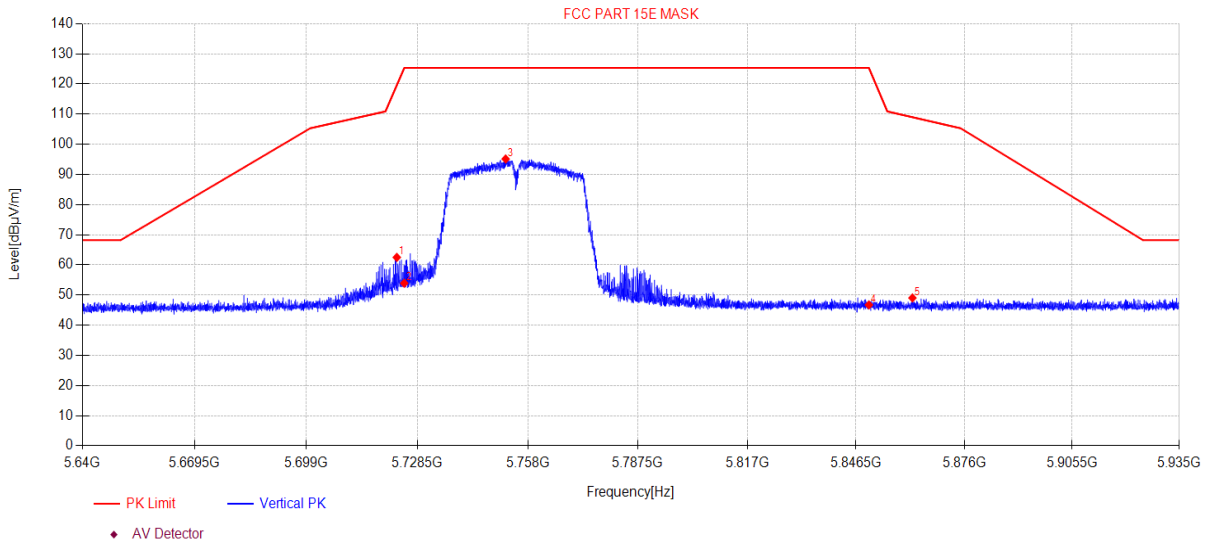
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5755MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\22  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV /m]	Limit [dBµV /m]	Margin [dB]	Detector	Polarity
1	5723.01	63.15	5.87	33.45	-39.99	62.48	119.58	57.10	PK	Vertical
2	5725.00	54.57	5.87	33.45	-39.99	53.90	125.30	71.40	PK	Vertical
3	5752.04	95.71	5.89	33.51	-39.98	95.13	125.30	30.17	PK	Vertical
4	5850.00	46.96	5.94	33.80	-39.97	46.73	125.27	78.54	PK	Vertical
5	5861.84	49.25	5.94	33.82	-39.97	49.04	108.98	59.94	PK	Vertical

**Note:**

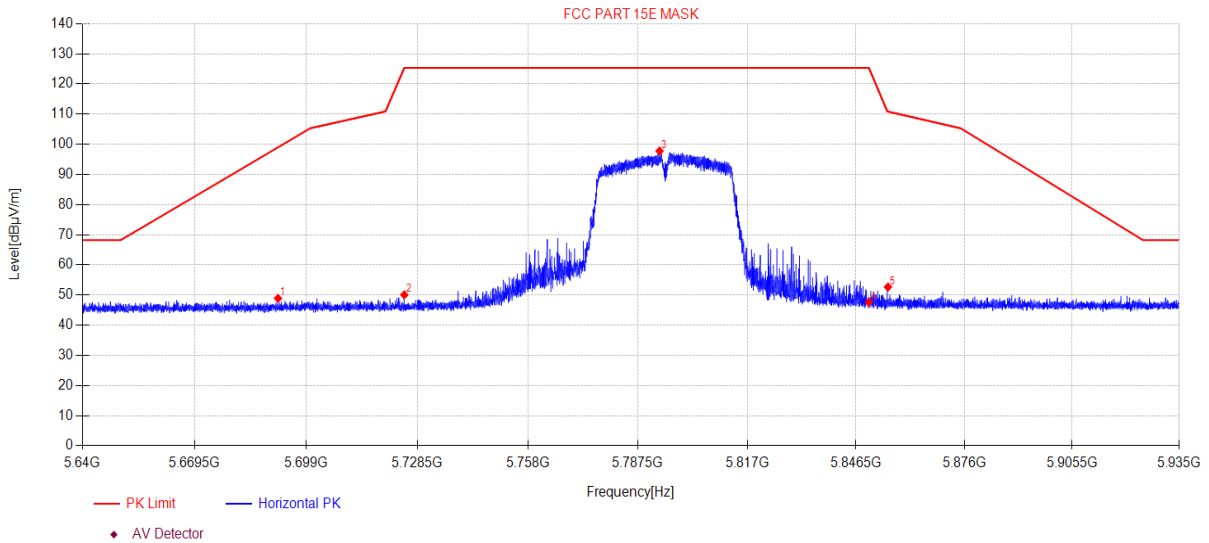
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5795MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\23  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5691.51	49.66	5.86	33.37	-39.99	48.90	99.00	50.10	PK	Horizontal
2	5725.00	50.72	5.87	33.45	-39.99	50.05	125.30	75.25	PK	Horizontal
3	5793.34	98.15	5.91	33.67	-39.98	97.75	125.30	27.55	PK	Horizontal
4	5850.00	47.84	5.94	33.80	-39.97	47.61	125.27	77.66	PK	Horizontal
5	5855.17	52.87	5.94	33.81	-39.97	52.65	110.85	58.20	PK	Horizontal

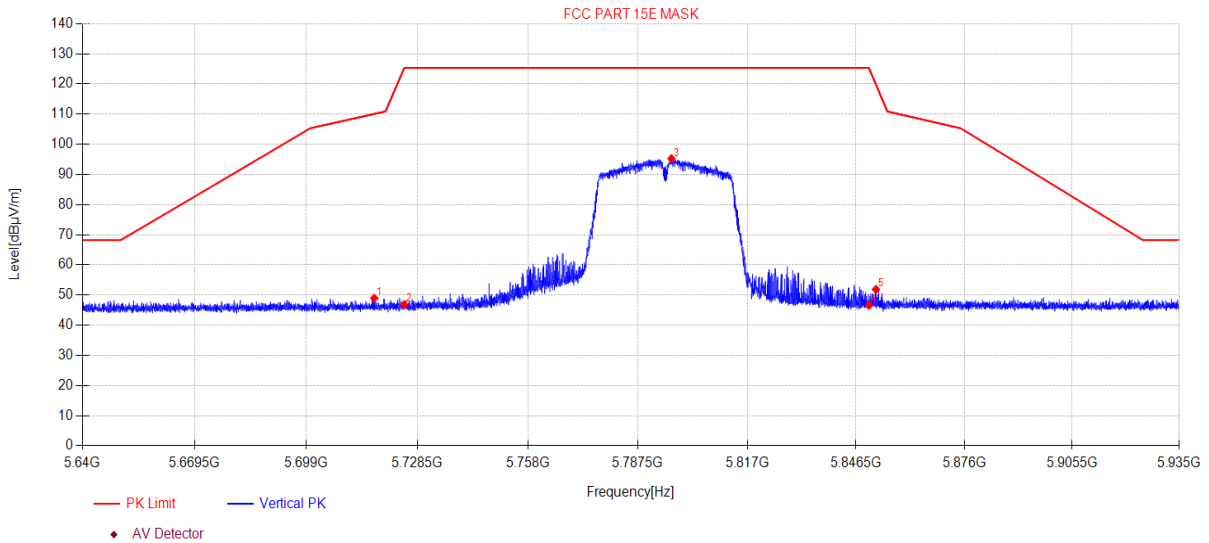
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11N40 TX 5795MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\24  
**Memo:** Sample Number:S23082411-02 Power Setting:14

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5717.02	49.63	5.87	33.43	-39.99	48.94	110.07	61.13	PK	Vertical
2	5725.00	47.47	5.87	33.45	-39.99	46.80	125.30	78.50	PK	Vertical
3	5796.56	95.61	5.91	33.69	-39.98	95.23	125.30	30.07	PK	Vertical
4	5850.00	46.81	5.94	33.80	-39.97	46.58	125.27	78.69	PK	Vertical
5	5851.90	52.10	5.94	33.80	-39.97	51.87	119.83	67.96	PK	Vertical

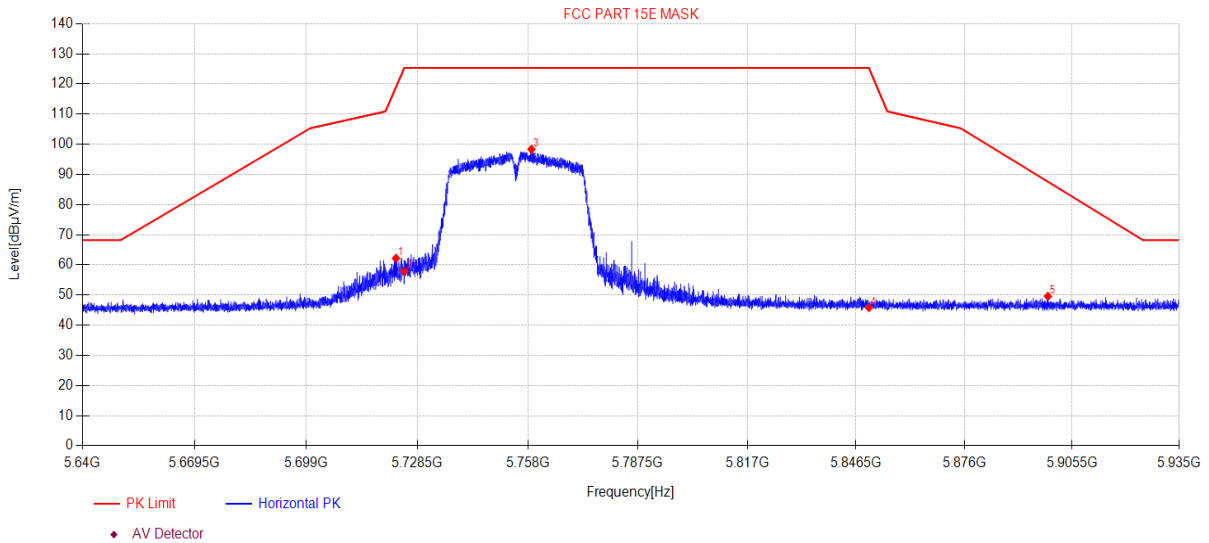
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5755MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\25  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5722.81	62.85	5.87	33.45	-39.99	62.18	118.98	56.80	PK	Horizontal
2	5725.00	58.51	5.87	33.45	-39.99	57.84	125.30	67.46	PK	Horizontal
3	5758.94	98.90	5.89	33.54	-39.98	98.35	125.30	26.95	PK	Horizontal
4	5850.00	46.08	5.94	33.80	-39.97	45.85	125.27	79.42	PK	Horizontal
5	5898.86	49.68	5.96	33.90	-39.96	49.58	87.59	38.01	PK	Horizontal

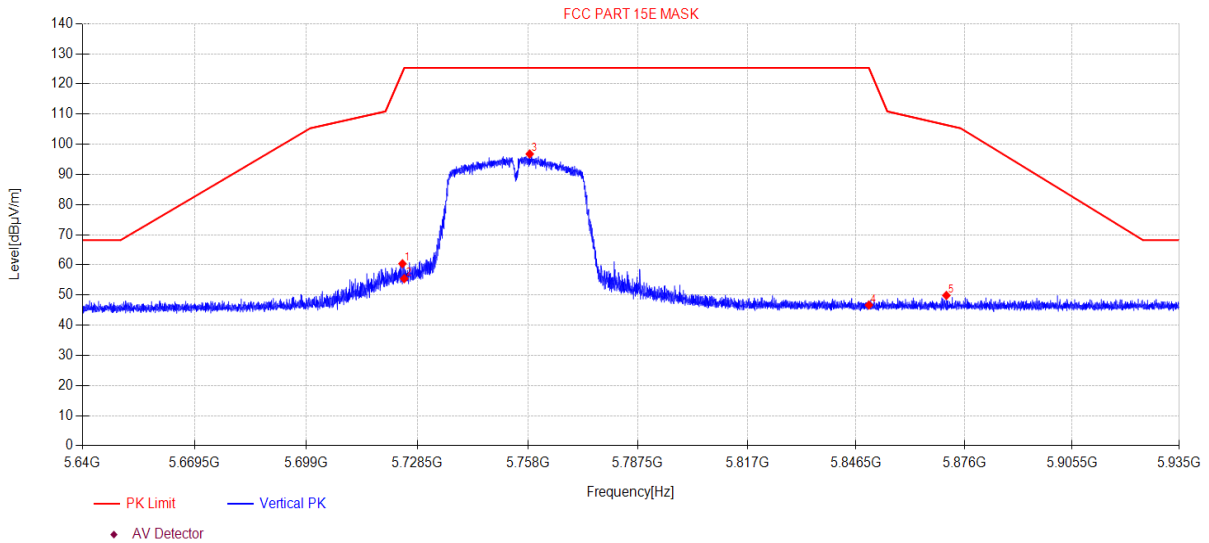
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5755MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\26  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5724.52	61.06	5.87	33.45	-39.99	60.39	123.91	63.52	PK	Vertical
2	5725.00	56.10	5.87	33.45	-39.99	55.43	125.30	69.87	PK	Vertical
3	5758.50	97.34	5.89	33.53	-39.98	96.78	125.30	28.52	PK	Vertical
4	5850.00	46.91	5.94	33.80	-39.97	46.68	125.27	78.59	PK	Vertical
5	5871.10	50.05	5.95	33.84	-39.97	49.87	106.39	56.52	PK	Vertical

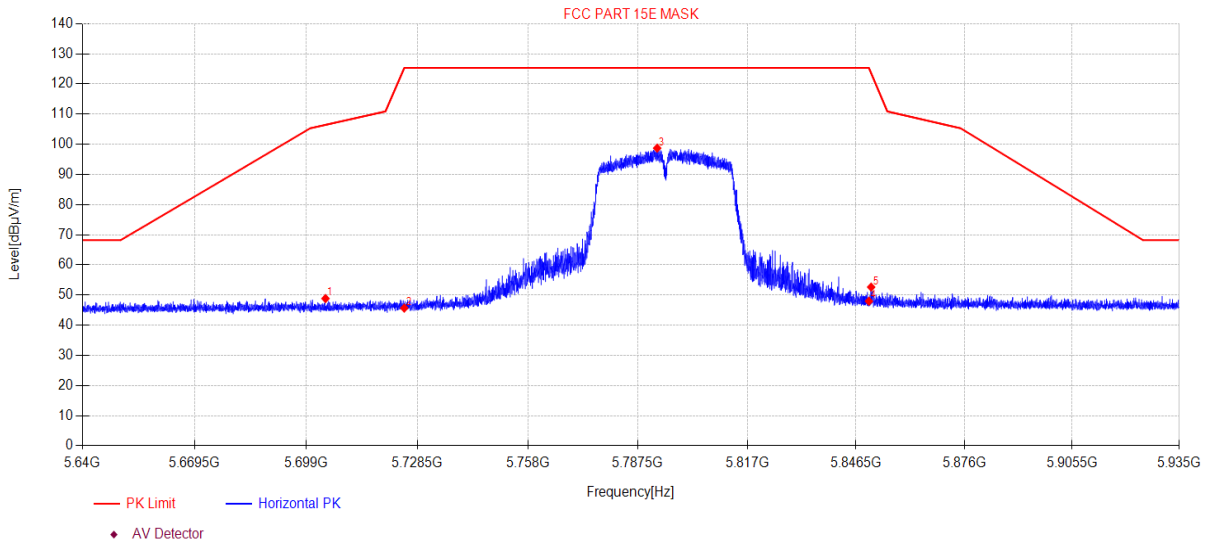
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5795MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\27  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5704.07	49.56	5.86	33.41	-39.99	48.84	106.44	57.60	PK	Horizontal
2	5725.00	46.34	5.87	33.45	-39.99	45.67	125.30	79.63	PK	Horizontal
3	5792.69	99.12	5.91	33.67	-39.98	98.72	125.30	26.58	PK	Horizontal
4	5850.00	48.19	5.94	33.80	-39.97	47.96	125.27	77.31	PK	Horizontal
5	5850.60	52.86	5.94	33.80	-39.97	52.63	123.57	70.94	PK	Horizontal

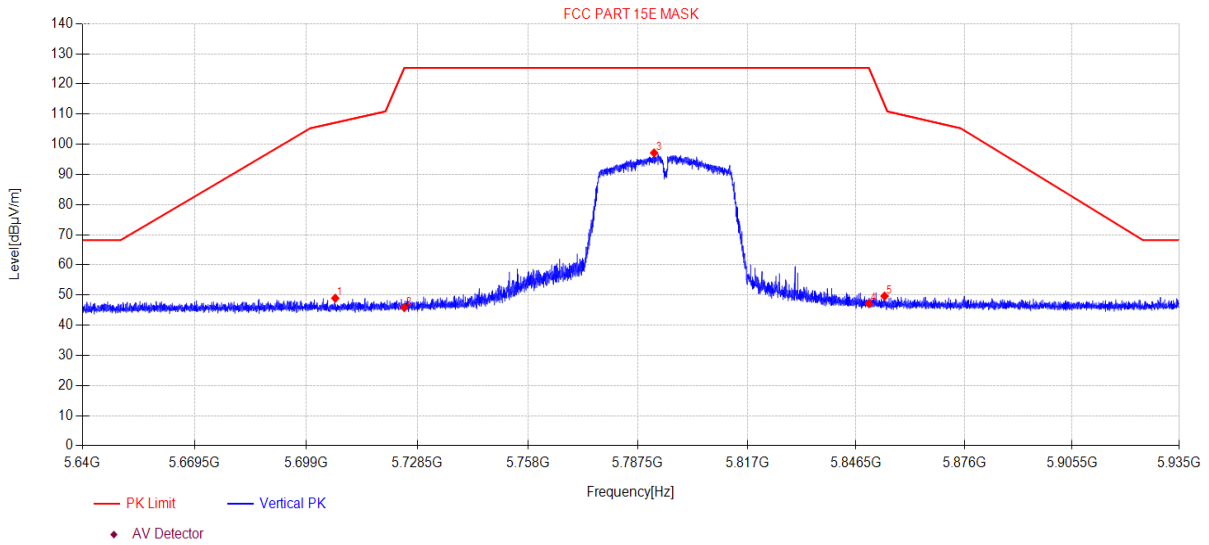
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13 **Tested By:** Bairong  
**EUT:** Multimedia **Model Number:** Kansas City 100  
**Test Mode:** 11AC40 TX 5795MHz **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\28  
**Memo:** Sample Number:S23082411-02 Power Setting:15

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5706.67	49.66	5.86	33.41	-39.99	48.94	107.17	58.23	PK	Vertical
2	5725.00	46.50	5.87	33.45	-39.99	45.83	125.30	79.47	PK	Vertical
3	5791.87	97.54	5.91	33.67	-39.98	97.14	125.30	28.16	PK	Vertical
4	5850.00	47.37	5.94	33.80	-39.97	47.14	125.27	78.13	PK	Vertical
5	5854.26	49.87	5.94	33.81	-39.97	49.65	113.04	63.39	PK	Vertical

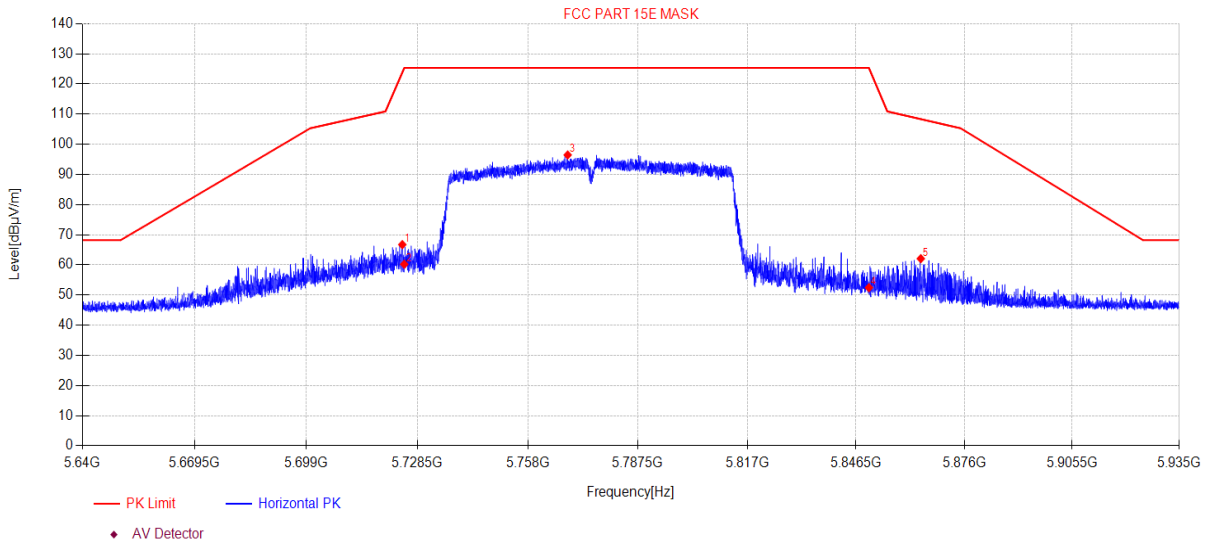
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5775MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\29  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5724.49	67.39	5.87	33.45	-39.99	66.72	123.83	57.11	PK	Horizontal
2	5725.00	60.87	5.87	33.45	-39.99	60.20	125.30	65.10	PK	Horizontal
3	5768.65	96.97	5.89	33.57	-39.98	96.45	125.30	28.85	PK	Horizontal
4	5850.00	52.67	5.94	33.80	-39.97	52.44	125.27	72.83	PK	Horizontal
5	5864.11	62.27	5.94	33.83	-39.97	62.07	108.35	46.28	PK	Horizontal

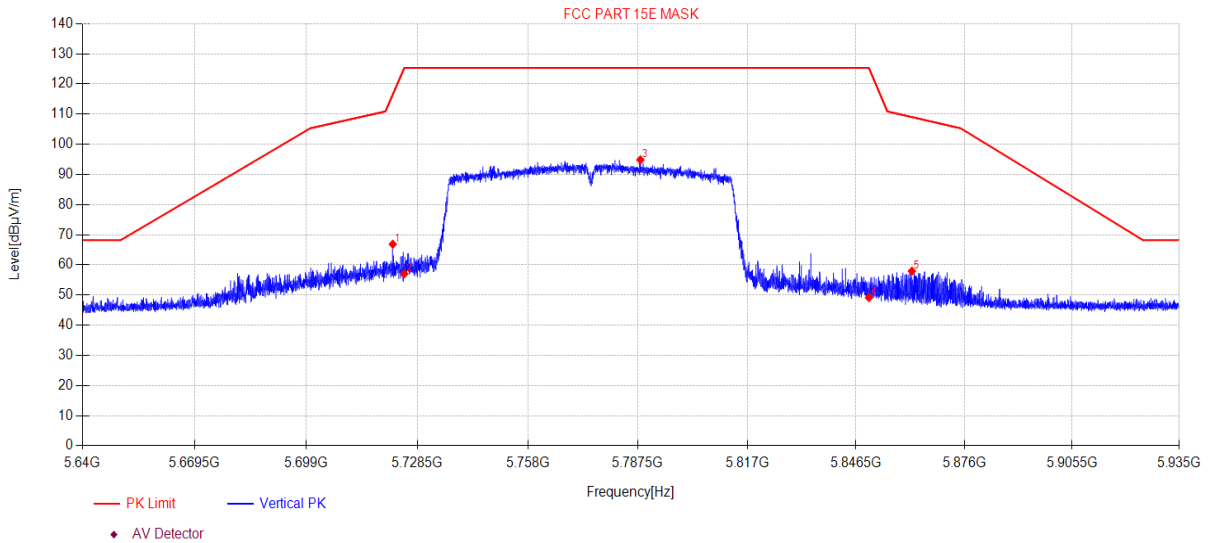
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2023-09-13      **Tested By:** Bairong  
**EUT:** Multimedia      **Model Number:** Kansas City 100  
**Test Mode:** 11AC80 TX 5775MHz      **Power Supply:** DC 12V  
**Condition:** Temp:20.7°C;Humi:60.5%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\30  
**Memo:** Sample Number:S23082411-02 Power Setting:16

## Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5721.95	67.54	5.87	33.44	-39.99	66.86	116.52	49.66	PK	Vertical
2	5725.00	57.70	5.87	33.45	-39.99	57.03	125.30	68.27	PK	Vertical
3	5788.18	95.26	5.90	33.65	-39.98	94.83	125.30	30.47	PK	Vertical
4	5850.00	49.39	5.94	33.80	-39.97	49.16	125.27	76.11	PK	Vertical
5	5861.69	58.15	5.94	33.82	-39.97	57.94	109.03	51.09	PK	Vertical

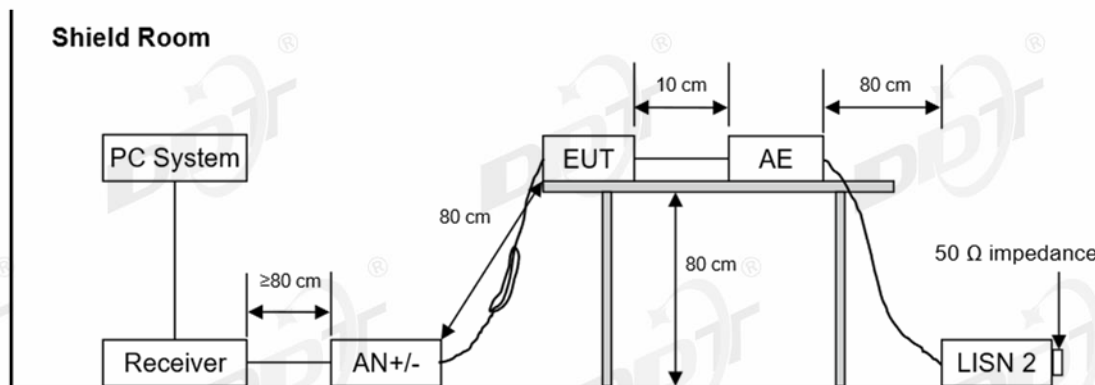
**Note:**

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



## 13. Power Line Conducted Emission

### 13.1. Block diagram of test setup



### 13.2. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB( $\mu$ V)	Average Level dB( $\mu$ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

### 13.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

#### **13.4. Test Result**

Not applicable, EUT is powered by DC power.

## 14. Dynamic Frequency Selection

### 14.1. Applicability of DFS requirements

**Table 1: Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

## 14.2. Limit

### (1) DFS Detection Thresholds

**Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar**

#### Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### (2) DFS Response Requirements

**Table 4: DFS Response Requirement Values**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### 14.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					
Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a					
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

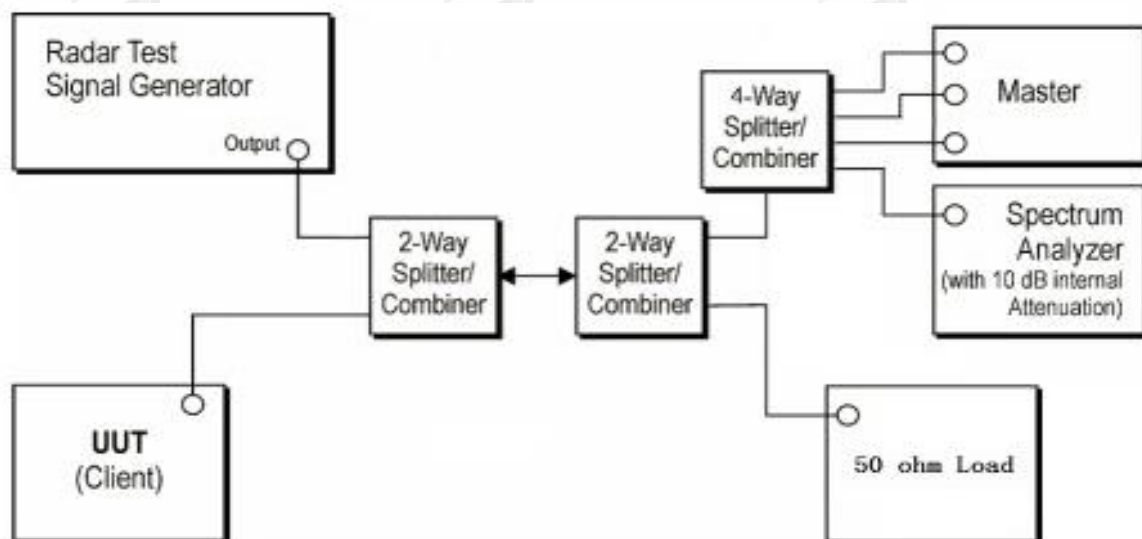
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

#### 14.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset  $-1.0\text{dB}$  to compensate RF cable loss  $1.0\text{dB}$ .
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:



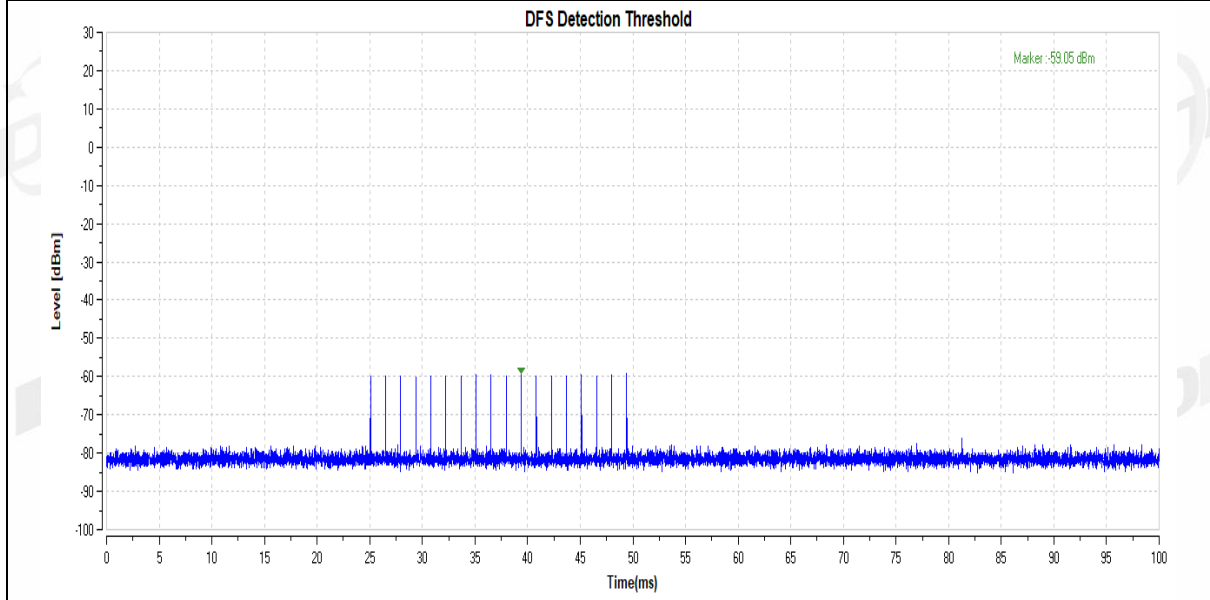
Note: 1. Use the software "Web" to set the frequency channel.

2. EUT is not support TPC and not with Radar detection.

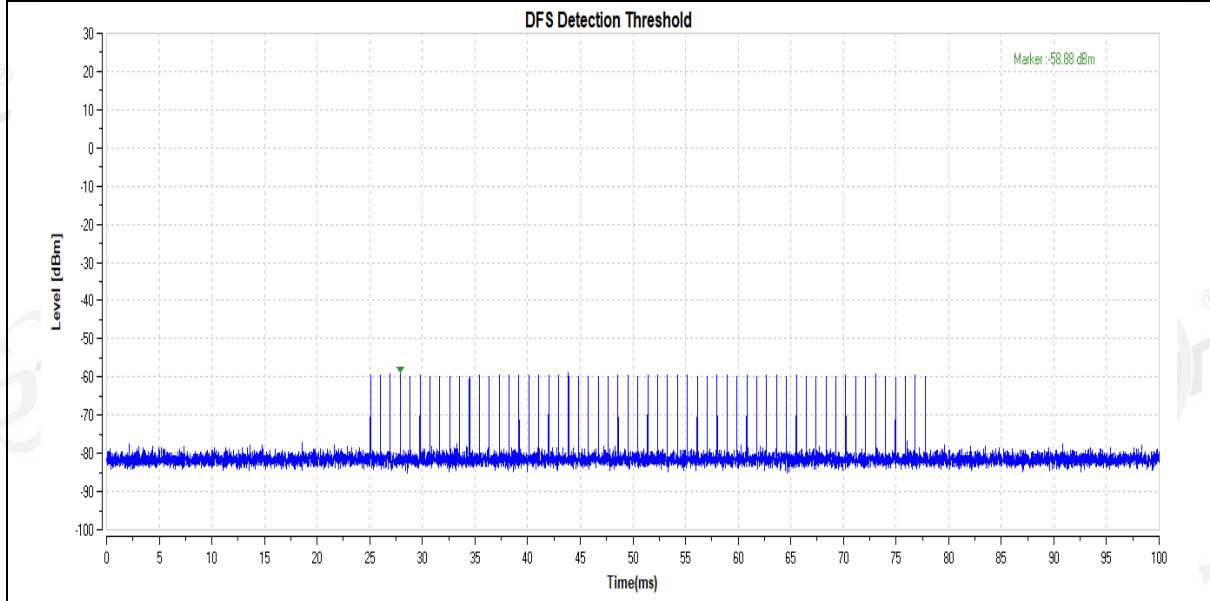
Radars Waveform Calibration Result:

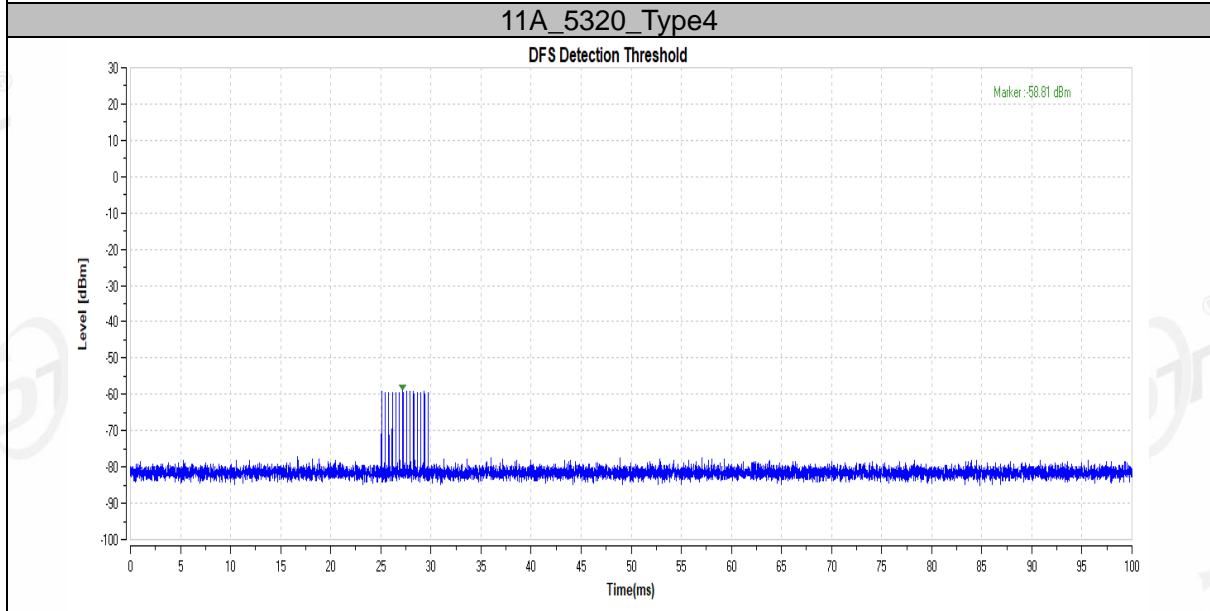
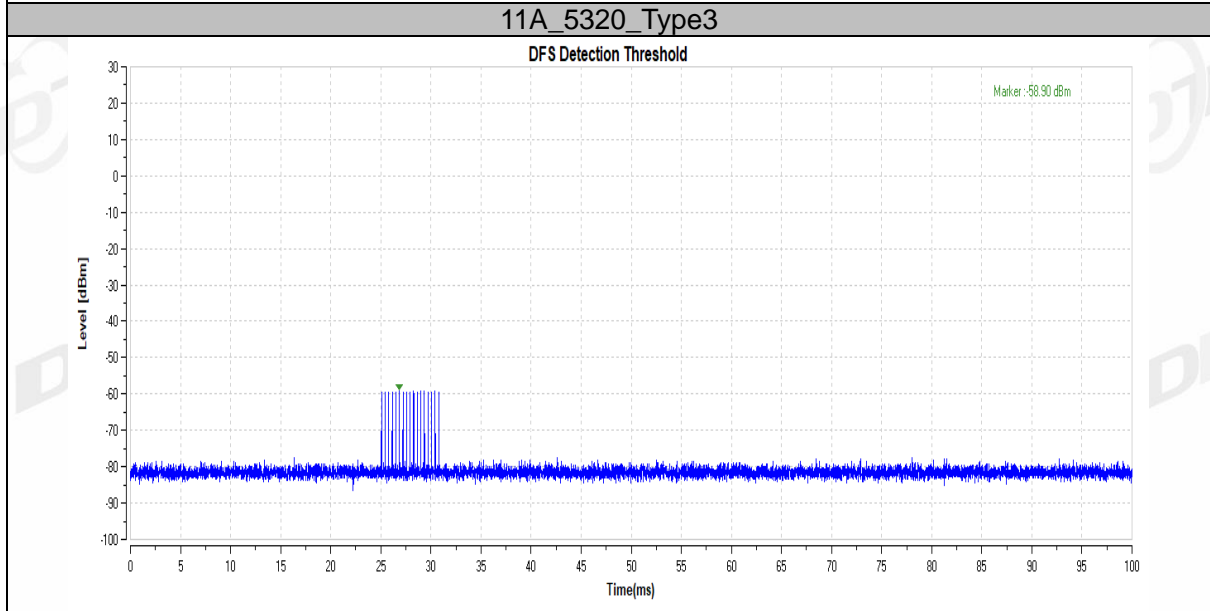
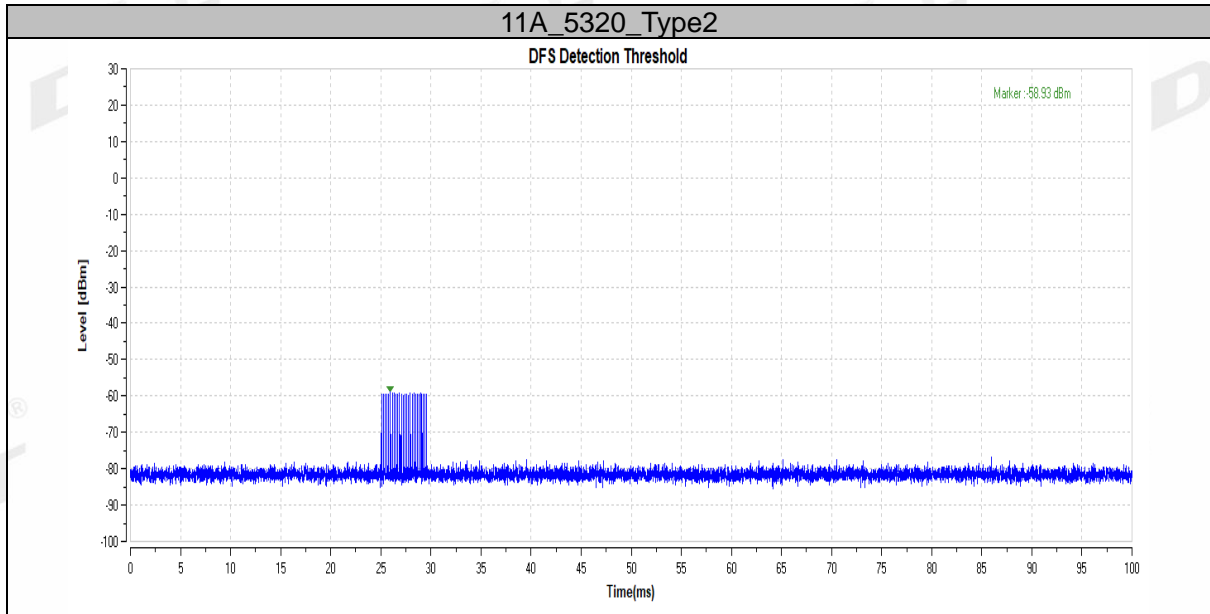
Test Mode	Frequency [dbm]	Radar Type	Result	Limit [dbm]	Verdict
11A	5320	Type0	-59.05	-58.79	PASS
		Type1	-58.88	-58.79	PASS
		Type2	-58.93	-58.79	PASS
		Type3	-58.90	-58.79	PASS
		Type4	-58.81	-58.79	PASS
		Type5	-59.23	-58.79	PASS
		Type6	-58.98	-58.79	PASS

11A\_5320\_Type0

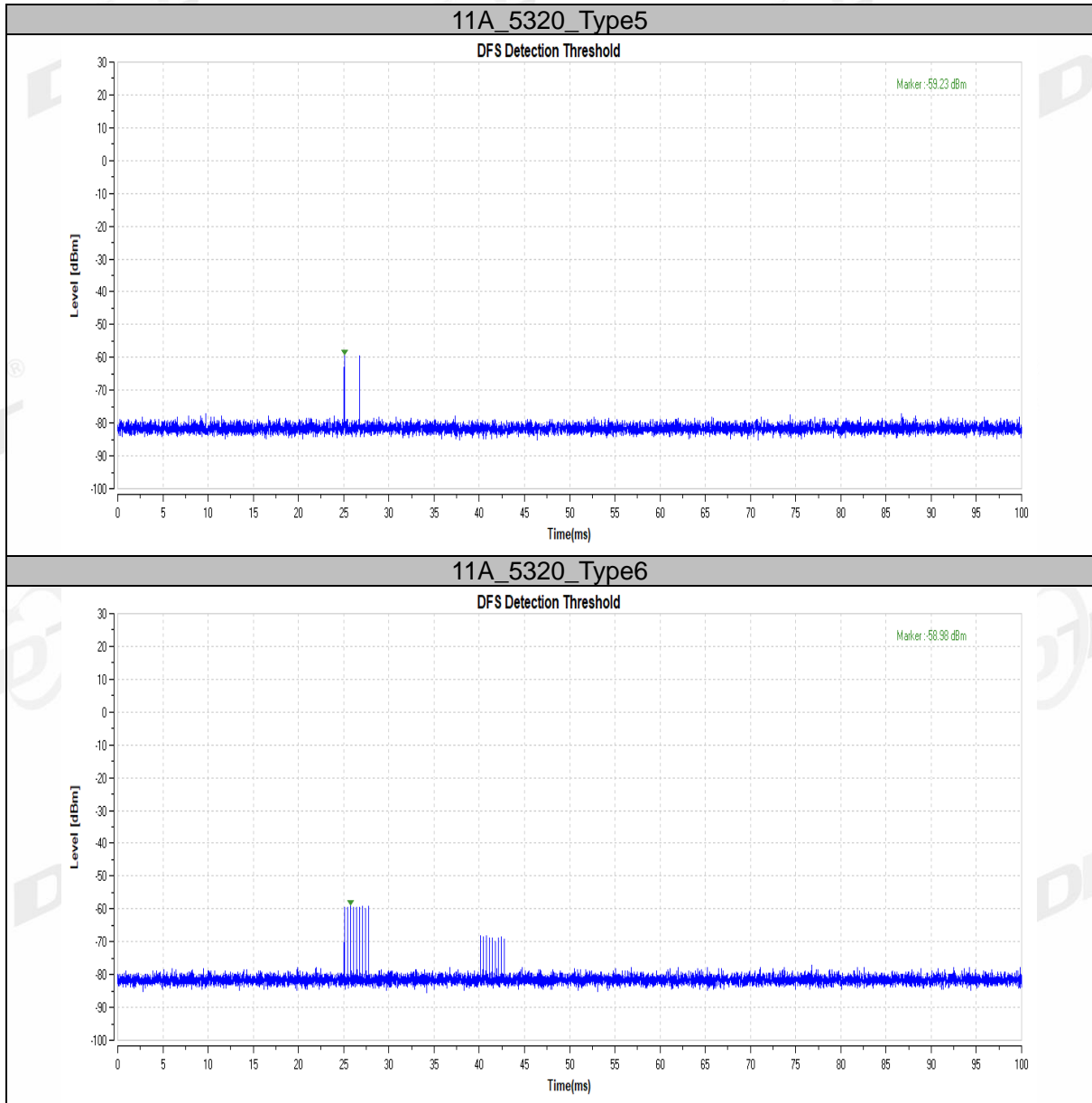


11A\_5320\_Type1









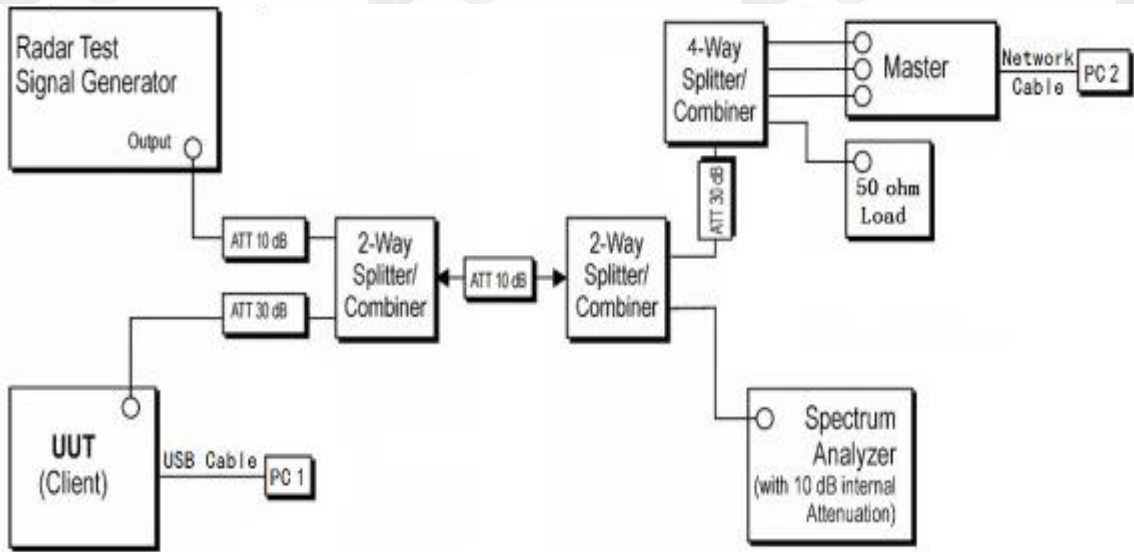
#### 14.5. Channel closing transmission time, channel move time and non-occupancy period

Block diagram of test setup Test Procedure:

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the
- (8) spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (0.3ms) = S (12000ms) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (ms) = N \times Dwell (0.3ms)$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- (9) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

### 14.6. Test setup

Setup for Client with injection at the Master

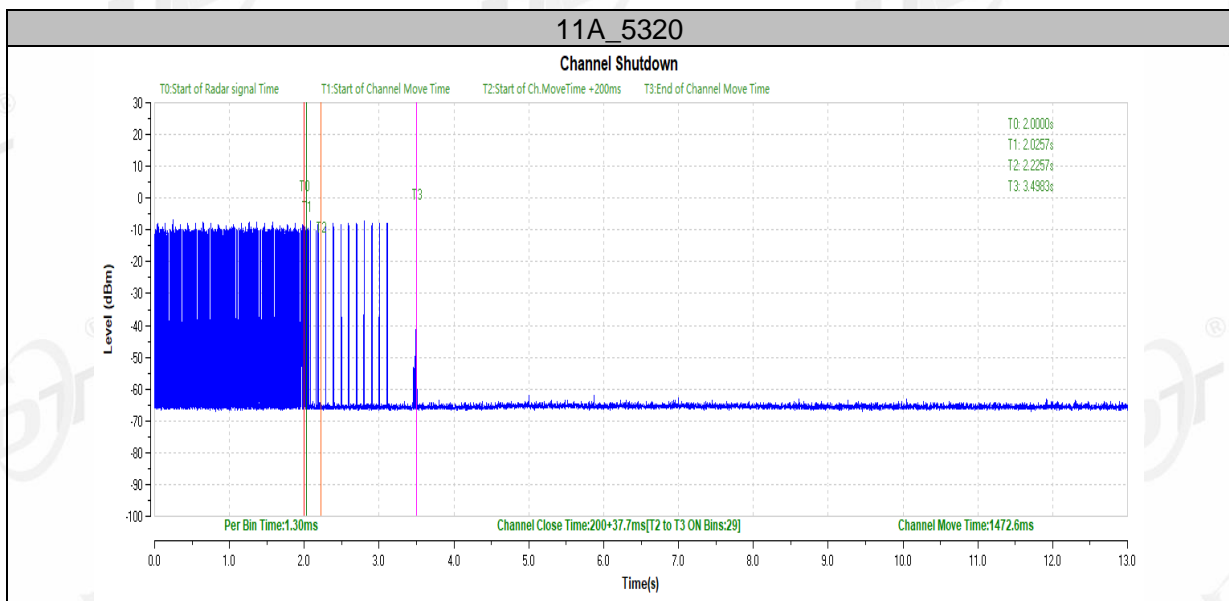


Note: For details about the master device used for testing, see section 2.3.

### 14.7. Test result

Channel Move Time and Channel Closing Transmission Time:

Test Mode	Frequency [MHz]	CCTT [ms]	Limit [ms]	CMT [ms]	Limit [ms]	Verdict
11A	5320	200+37.7	200+60	1472.6	10000	PASS



## 15. Antenna Requirements

### 15.1. Limit

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 15.247 (b), 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.

### 15.2. Result

The product is that no other antennas shall be used except the antennas furnished by the responsible party, the maximum peak gain of the transmit antenna is 3.47 dBi, external antenna.

## 17. Photos of the EUT

Please refer to Appendix I: Photos of the EUT.

**END OF REPORT**