

**REMARKS:**

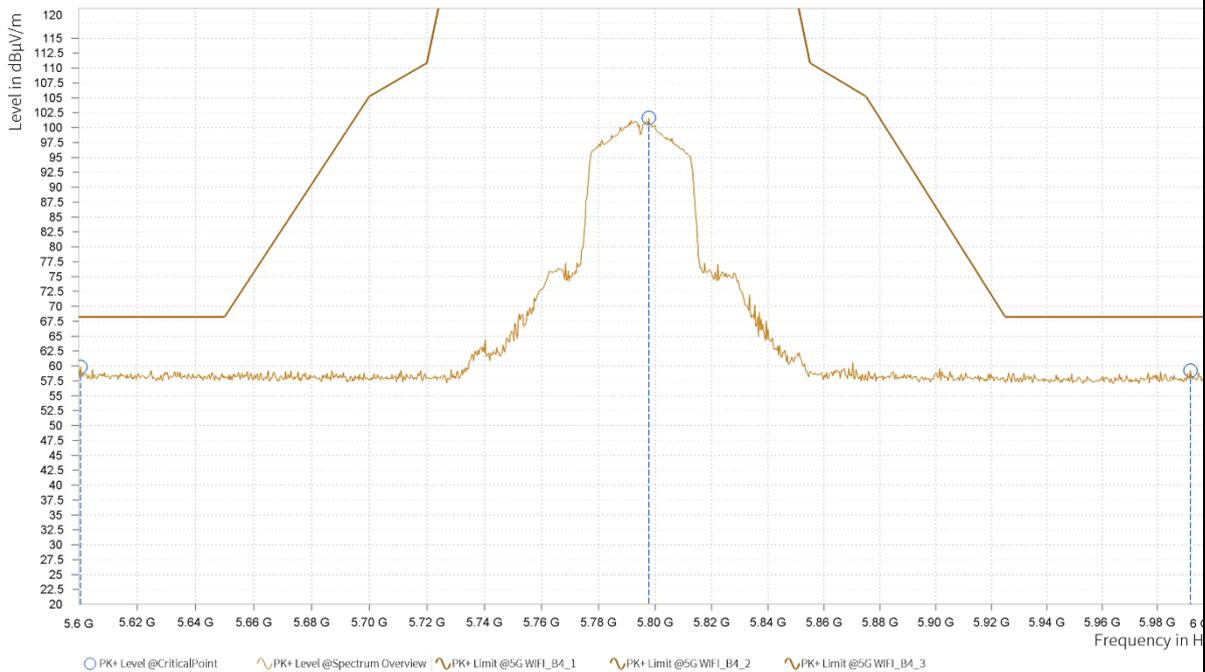
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5755MHz: Fundamental frequency.

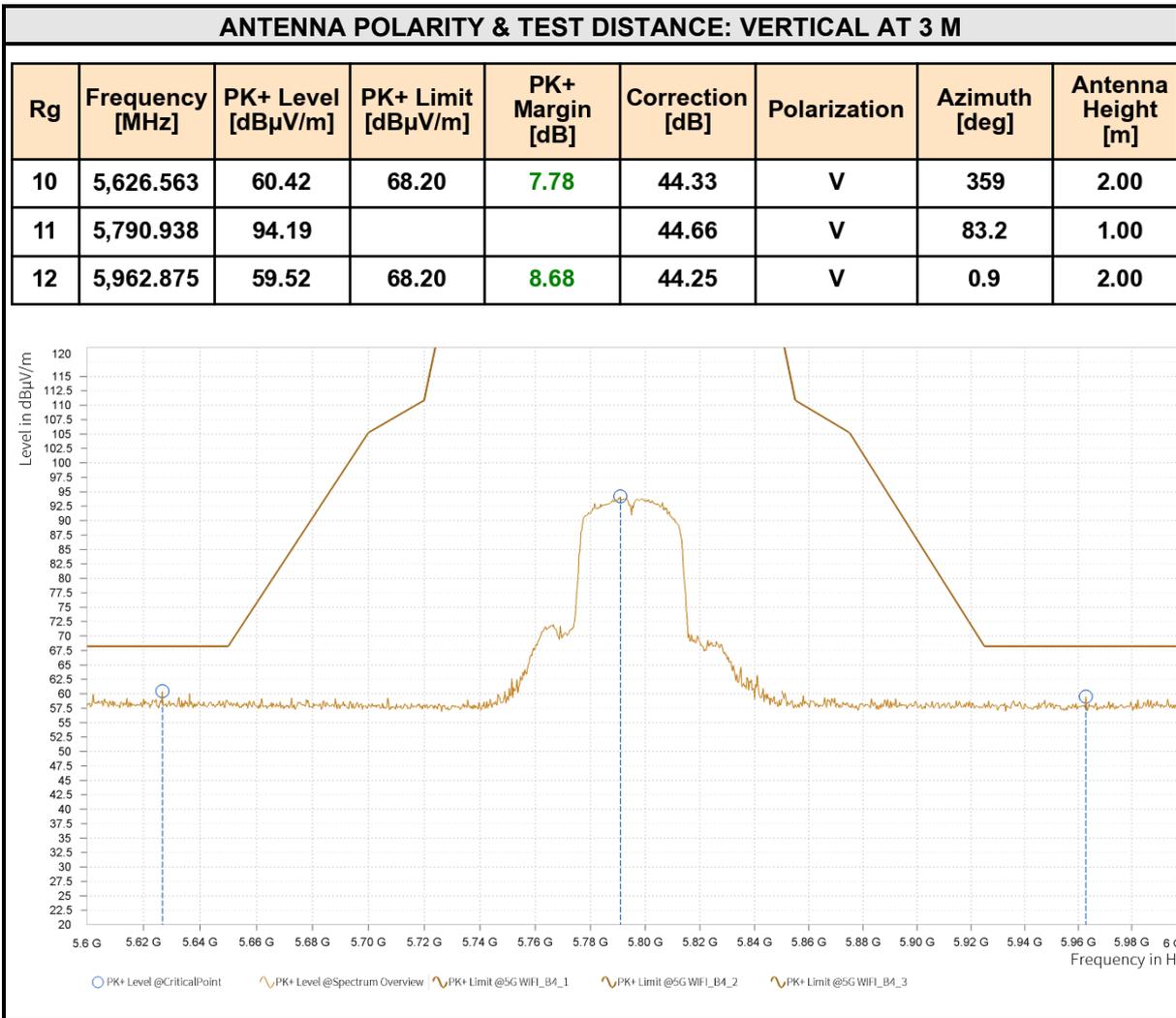


<b>CHANNEL</b>	TX Channel 159	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

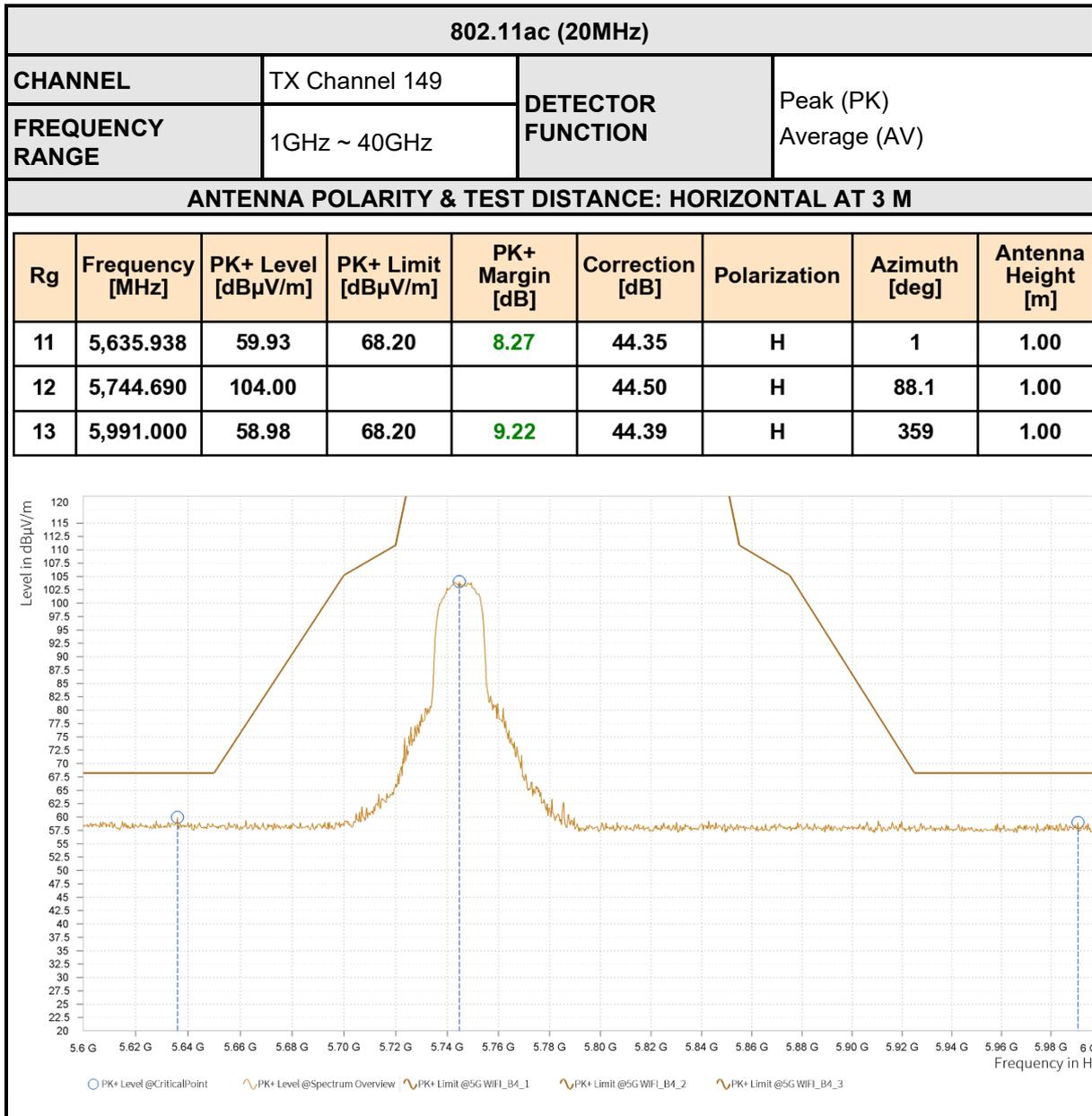
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

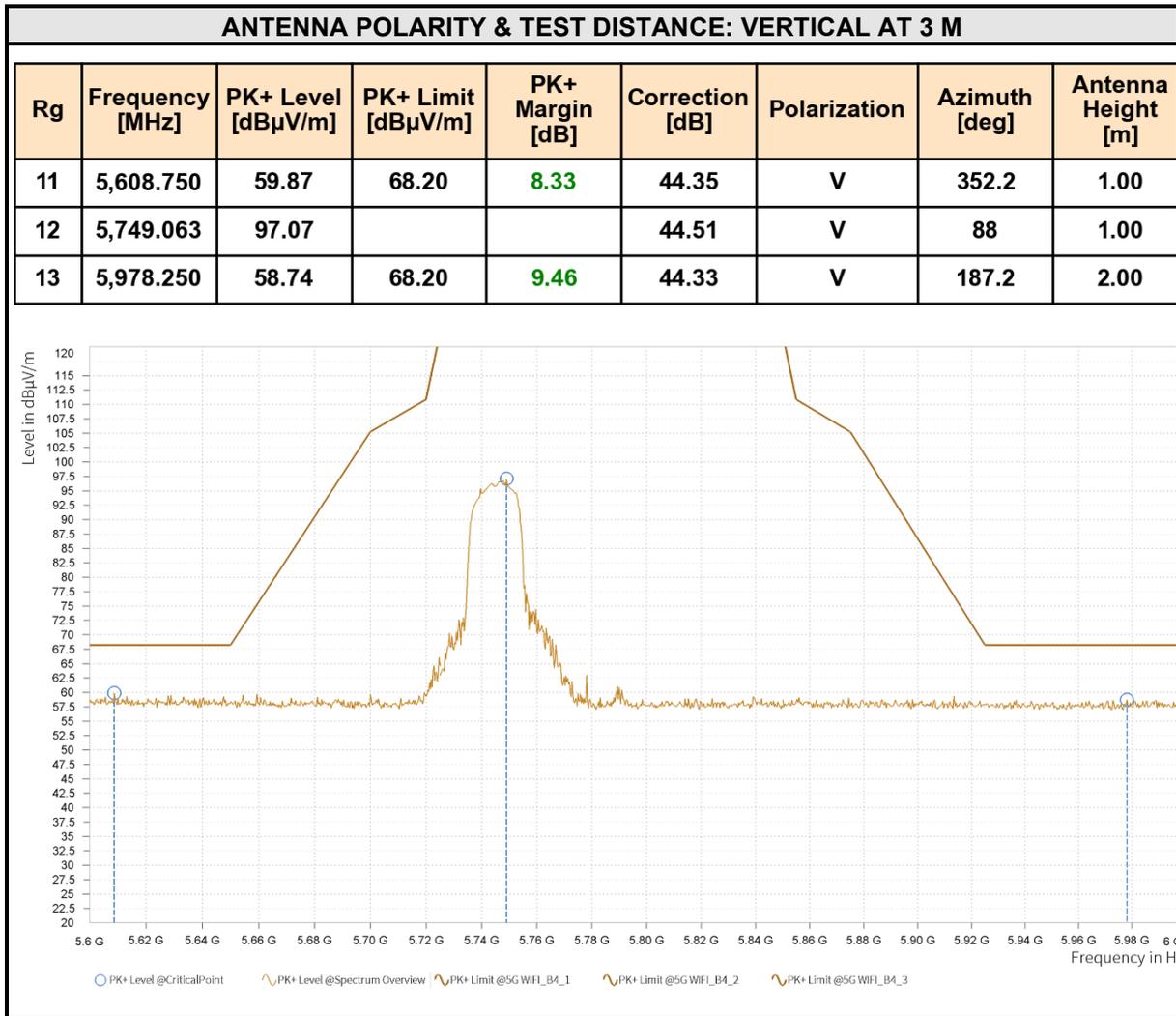
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,600.625	59.85	68.20	8.35	44.38	H	152.6	2.00
11	5,797.810	101.61			44.69	H	106	2.00
12	5,992.125	59.24	68.20	8.96	44.40	H	359	2.00





- REMARKS:**
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
  2. Margin value = Limit value- Emission level.
  3. 5795MHz: Fundamental frequency.





**REMARKS:**

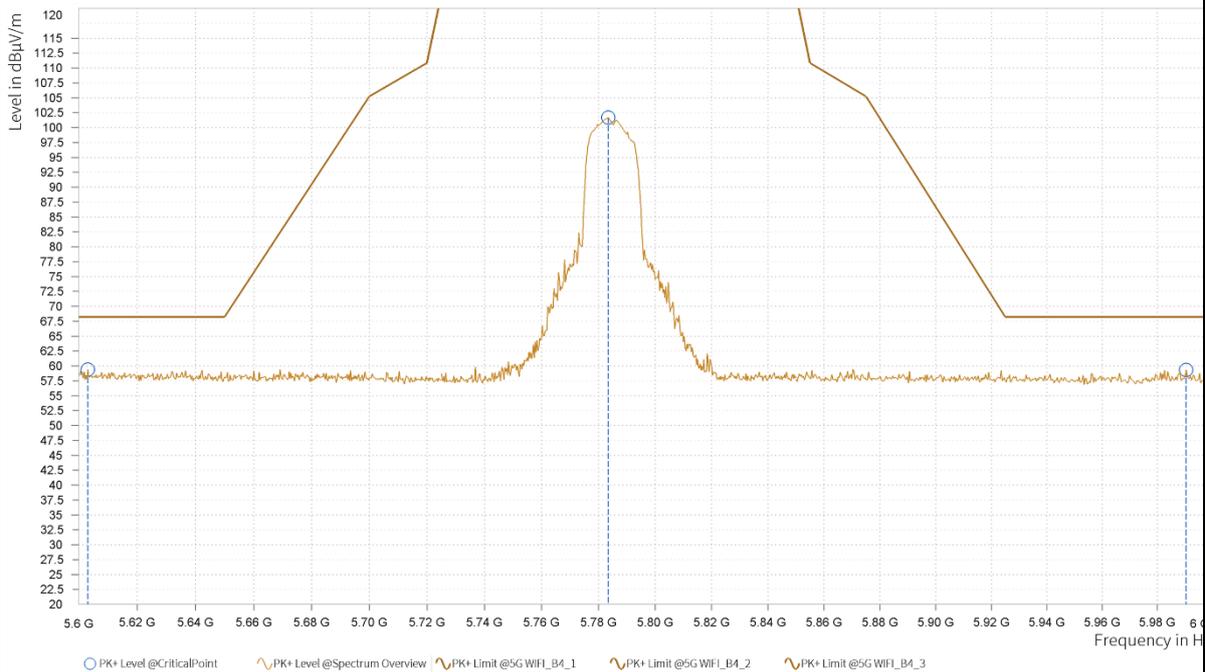
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5745MHz: Fundamental frequency.

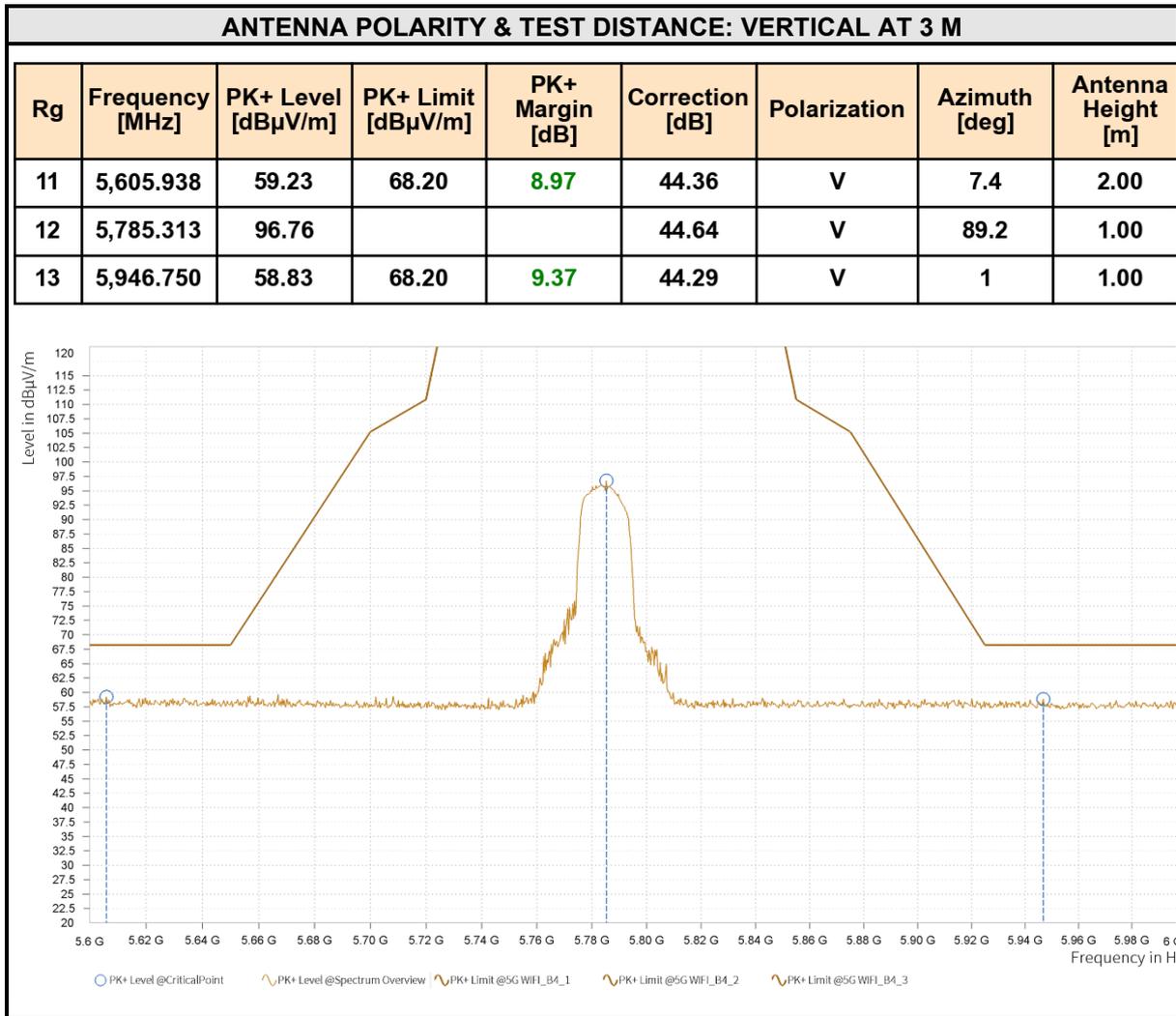


<b>CHANNEL</b>	TX Channel 157	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,603.125	59.41	68.20	8.79	44.37	H	351.8	1.00
12	5,783.440	101.70			44.64	H	96.4	2.00
13	5,990.625	59.33	68.20	8.87	44.39	H	47.3	2.00





**REMARKS:**

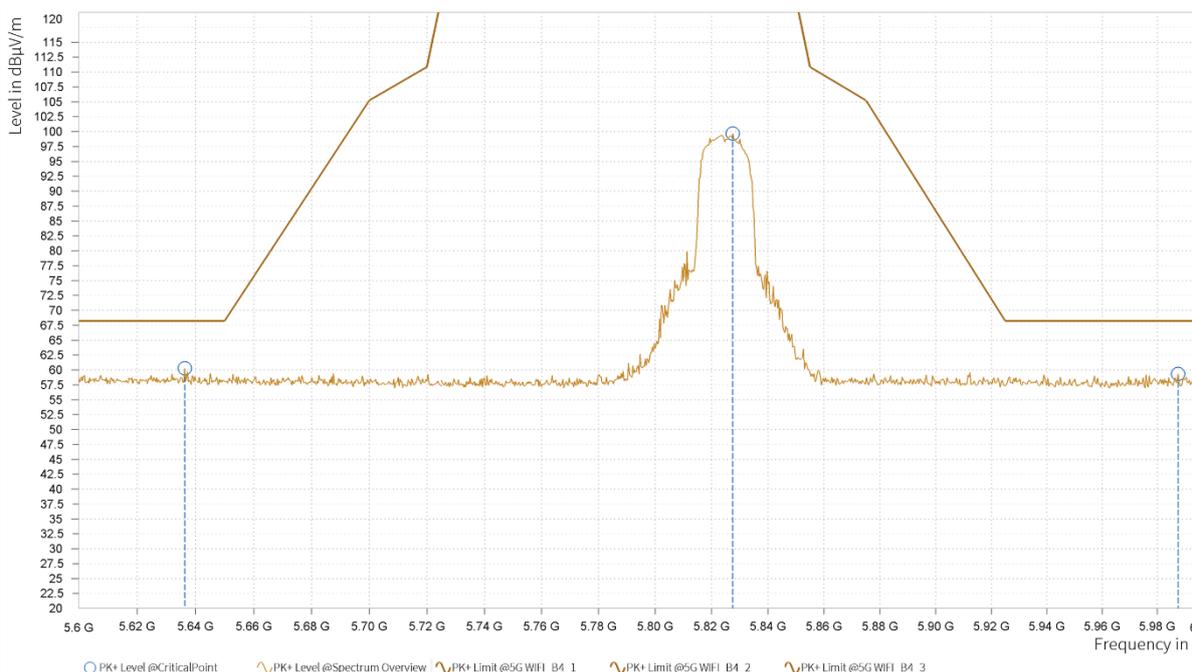
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5785MHz: Fundamental frequency.

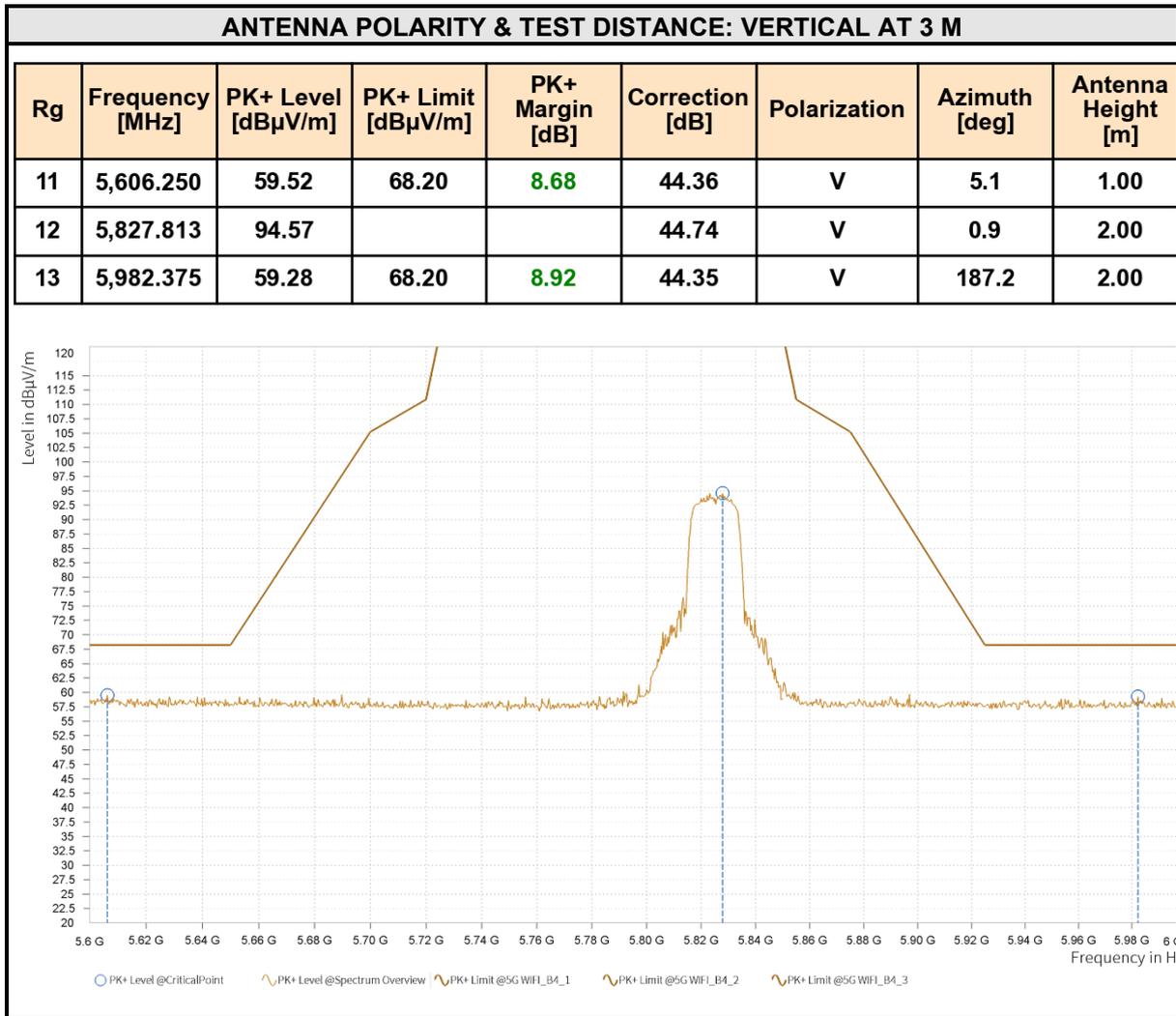


<b>CHANNEL</b>	TX Channel 165	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

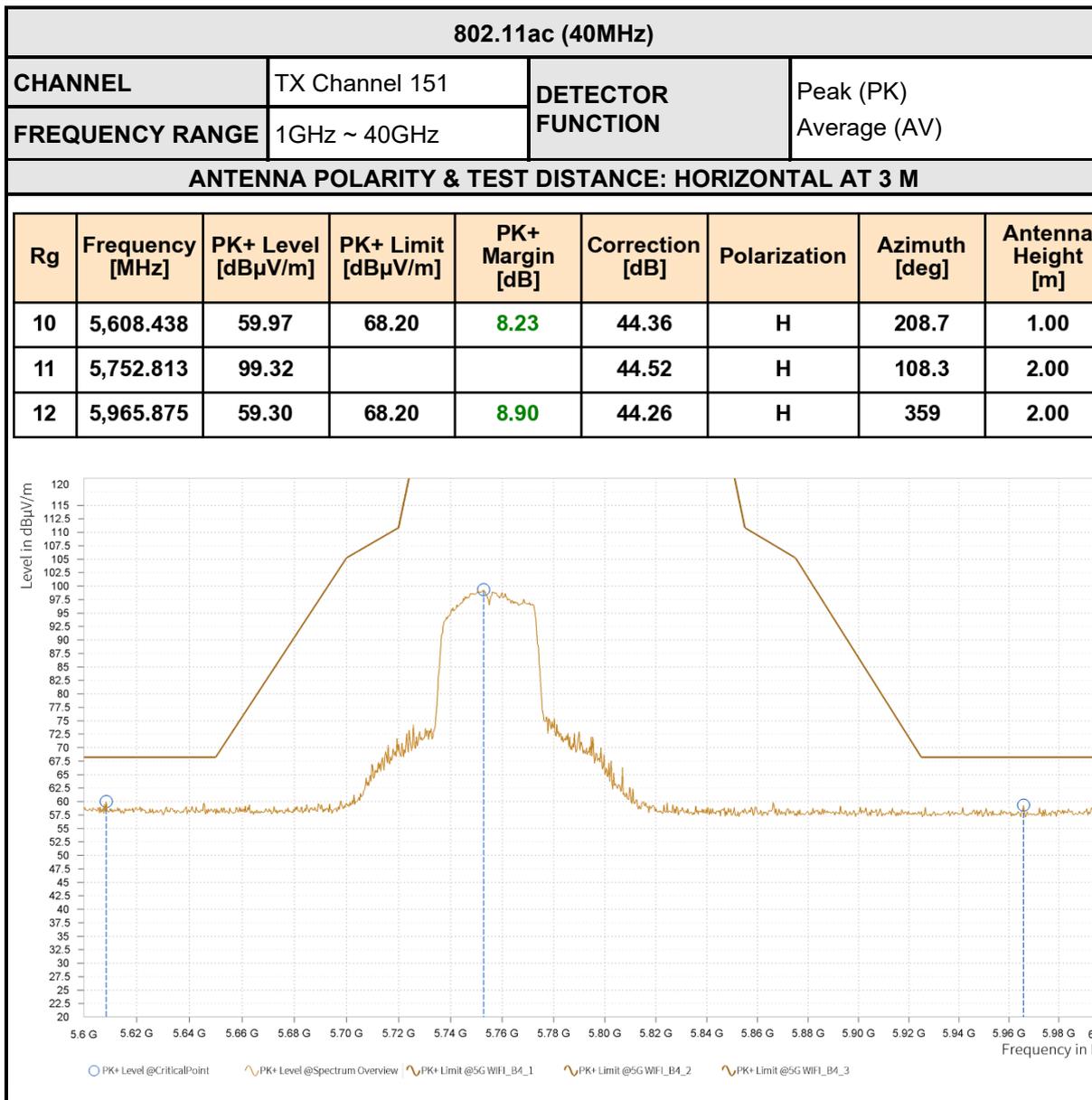
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,636.250	60.26	68.20	7.94	44.35	H	1	1.00
12	5,827.500	99.67			44.74	H	94	2.00
13	5,987.625	59.33	68.20	8.87	44.37	H	1	1.00

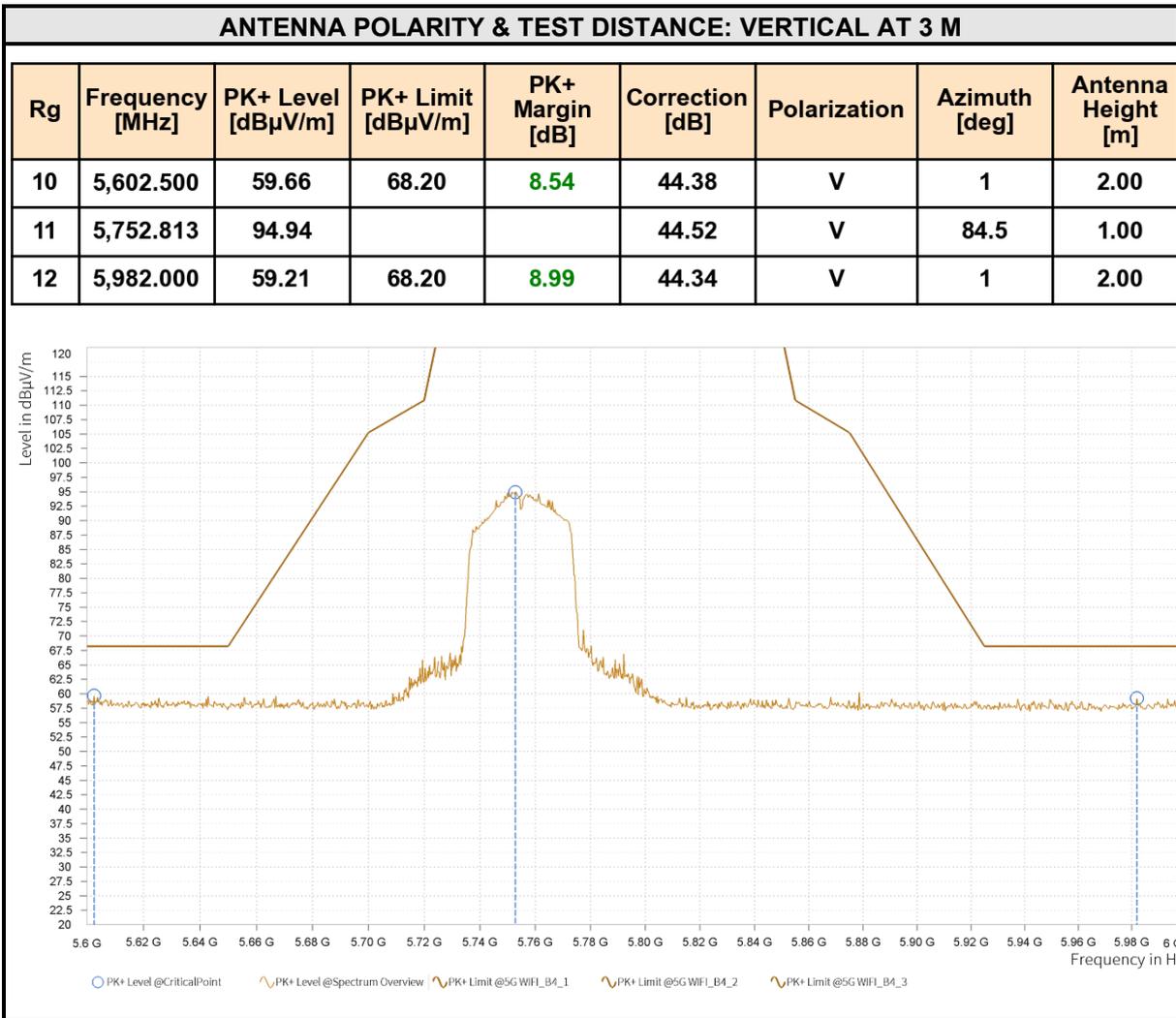




**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5825MHz: Fundamental frequency.





**REMARKS:**

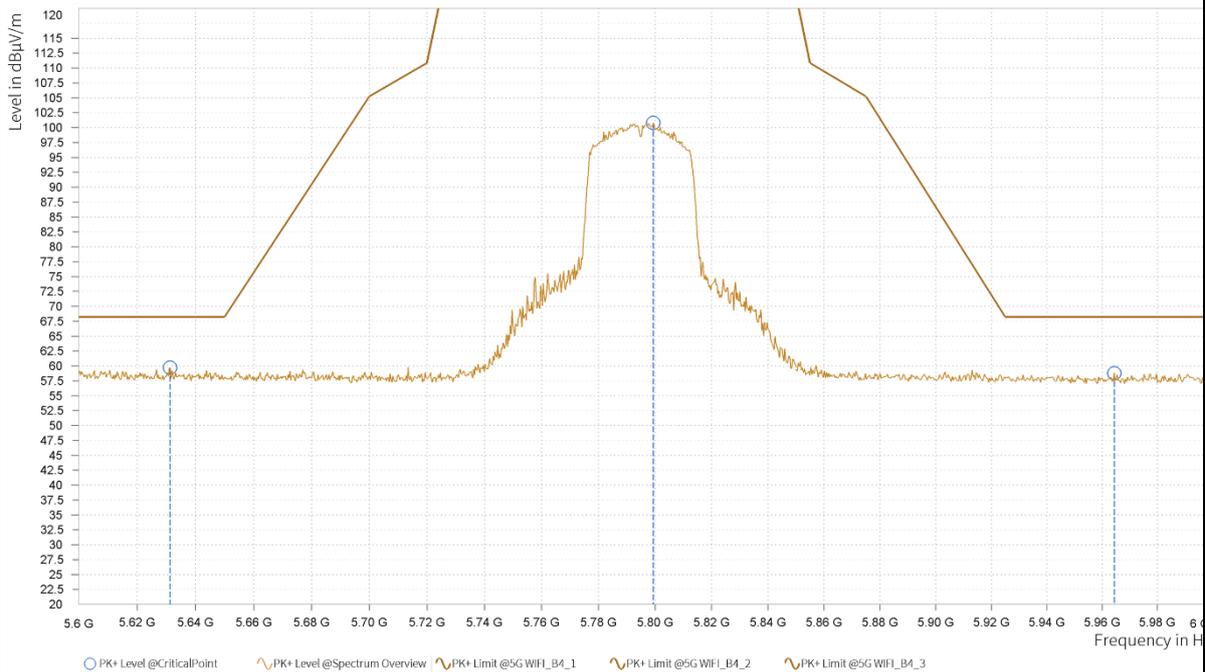
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5755MHz: Fundamental frequency.

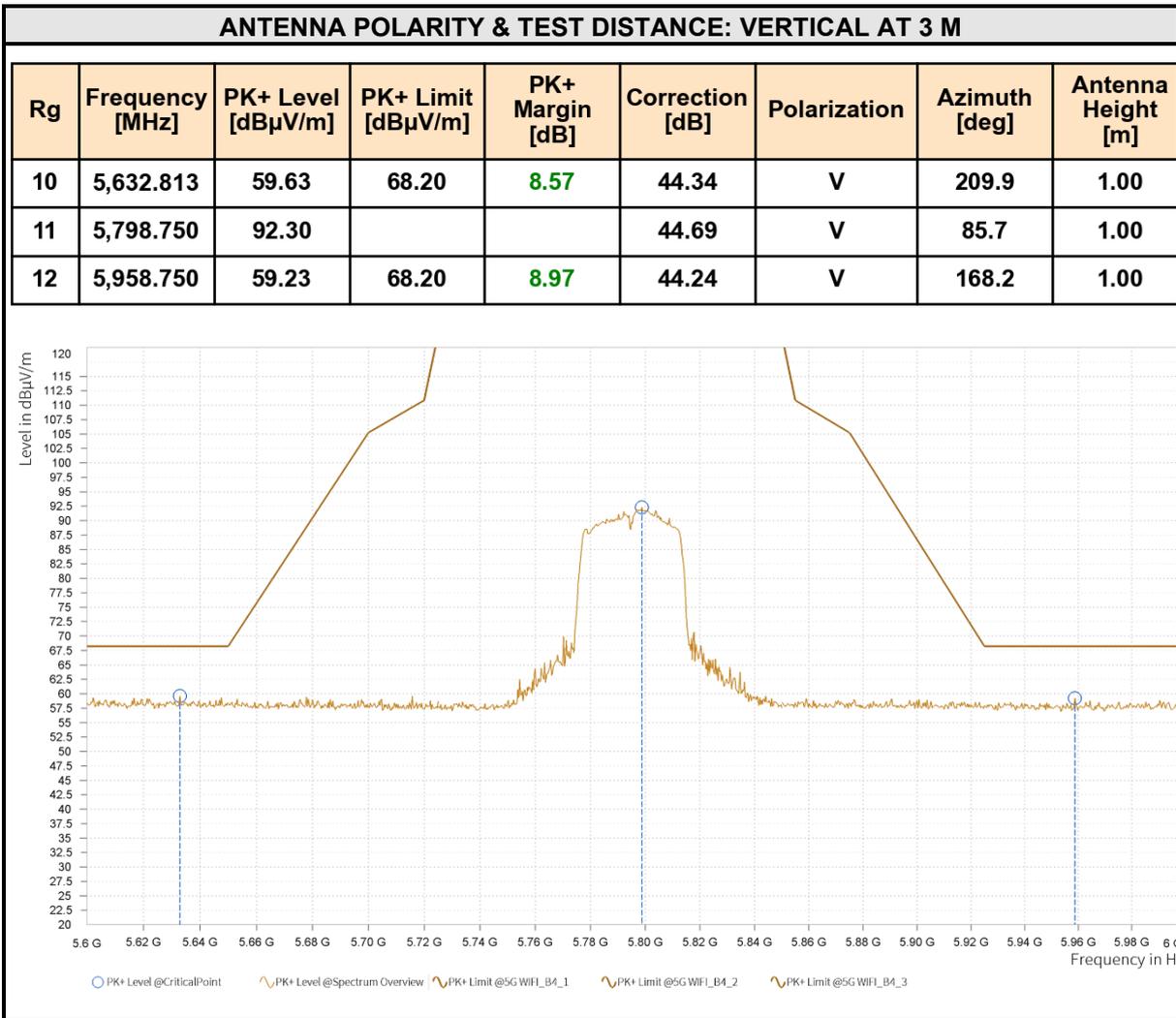


<b>CHANNEL</b>	TX Channel 159	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

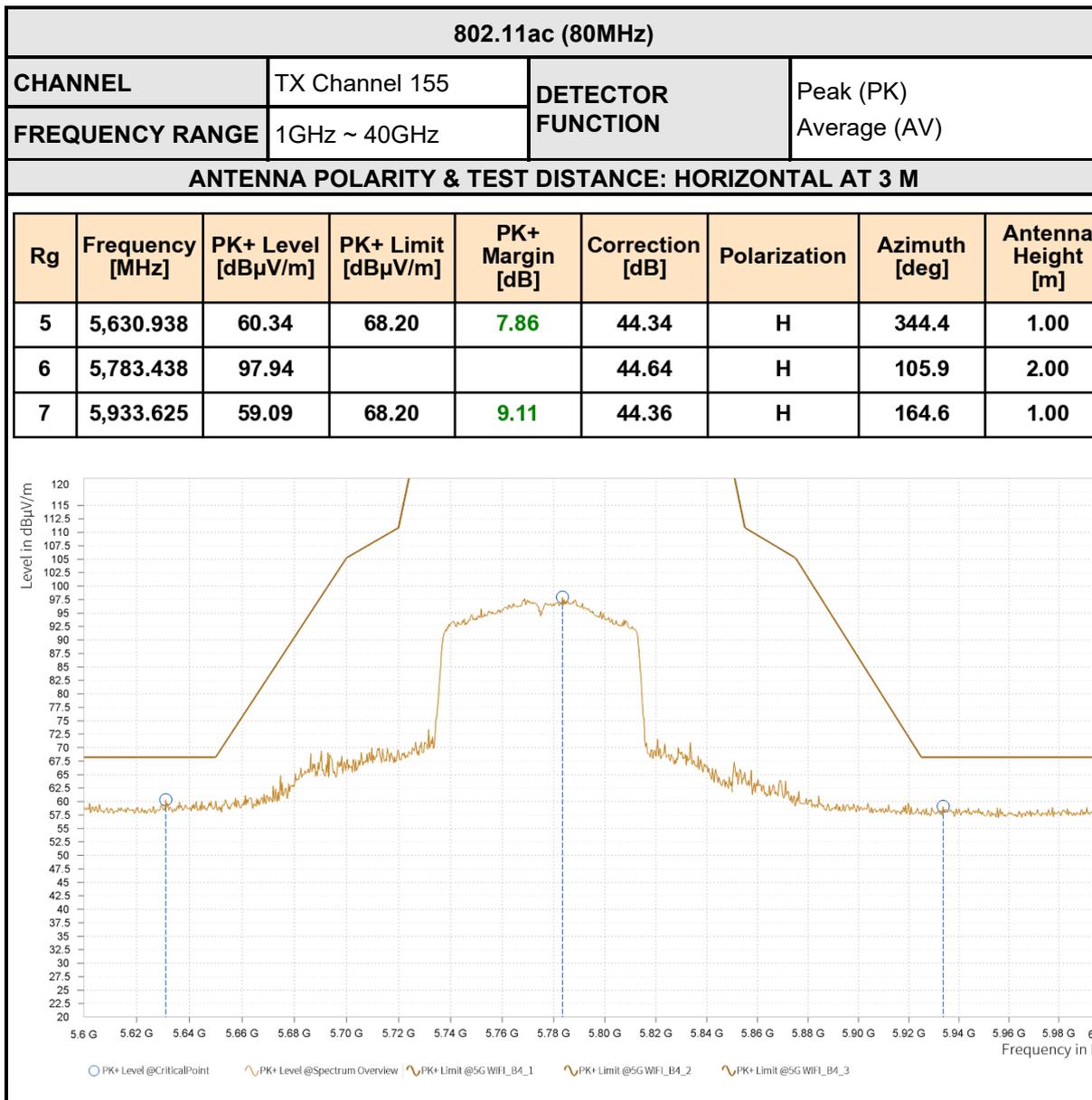
**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

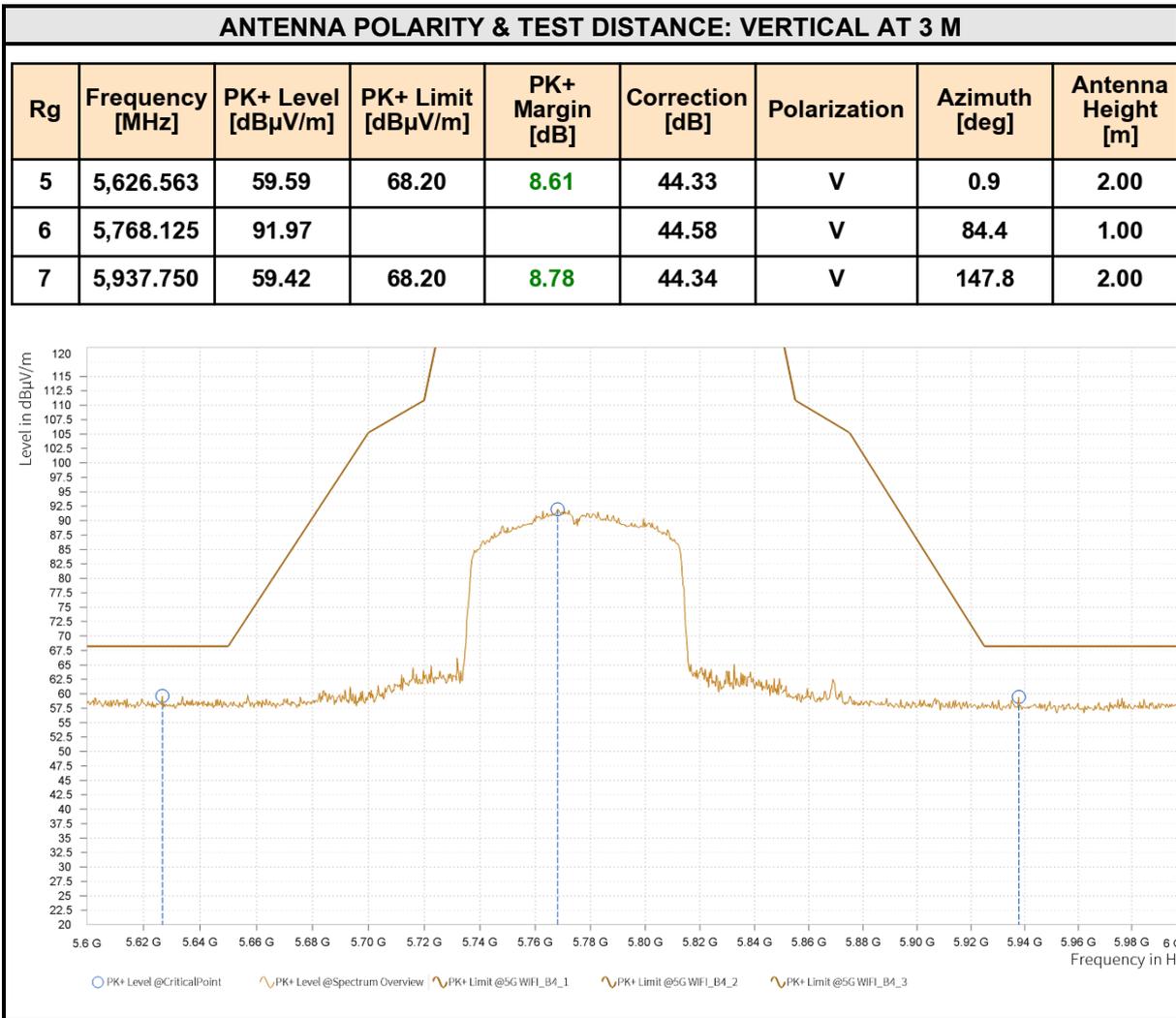
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,631.250	59.71	68.20	8.49	44.34	H	1	1.00
11	5,799.380	100.81			44.69	H	1.8	2.00
12	5,964.375	58.78	68.20	9.42	44.26	H	1	2.00





- REMARKS:**
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
  2. Margin value = Limit value- Emission level.
  3. 5795MHz: Fundamental frequency.





**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5775MHz: Fundamental frequency.



<b>RADIATED EMISSION</b>
<b>BELOW 1GHz WORST-CASE DATA</b>

<b>Band</b>			
<b>802.11 (MHz)</b>			
<b>CHANNEL</b>	TX Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>
--

**REMARKS:**

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Limit value- Emission level.

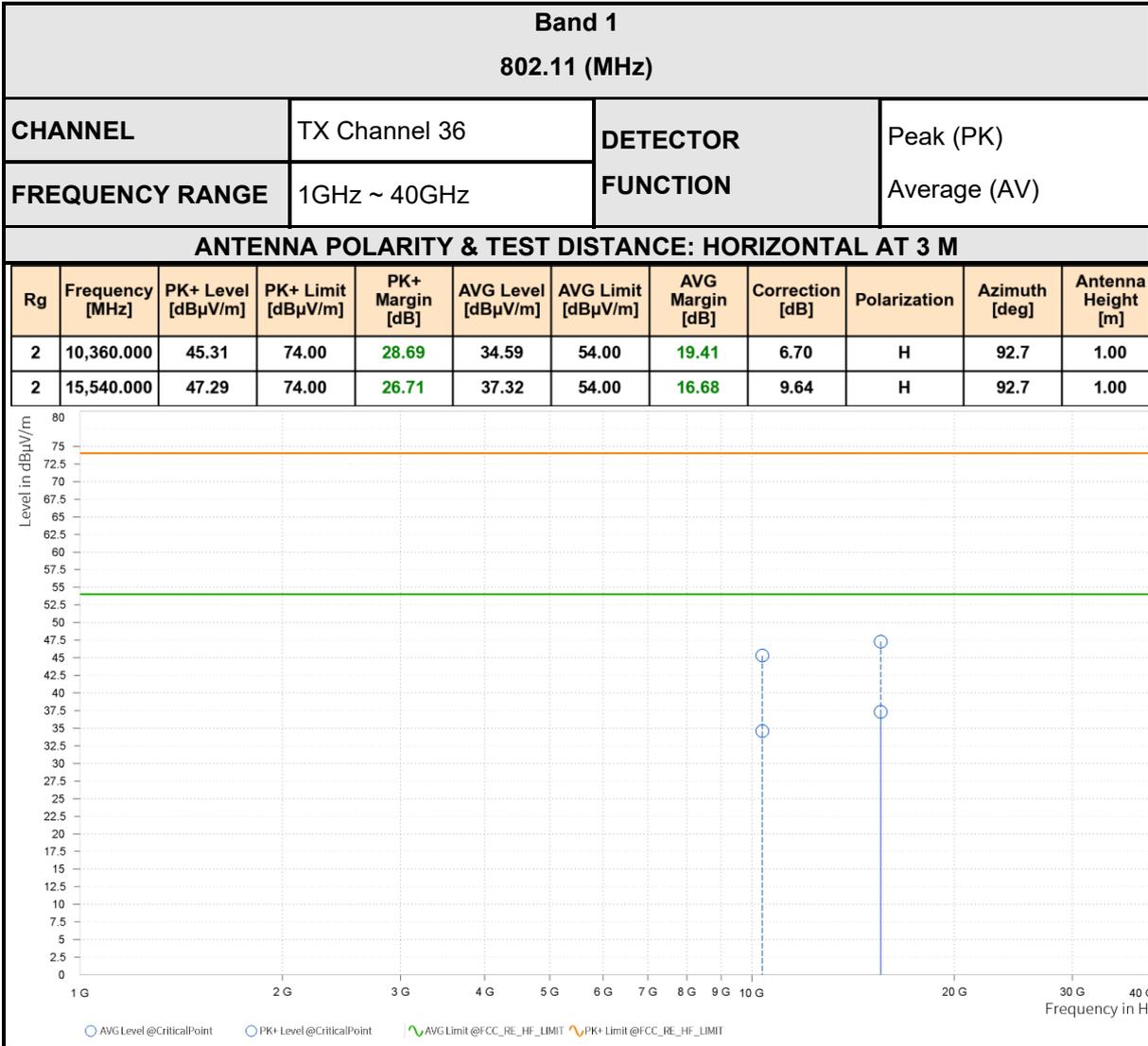


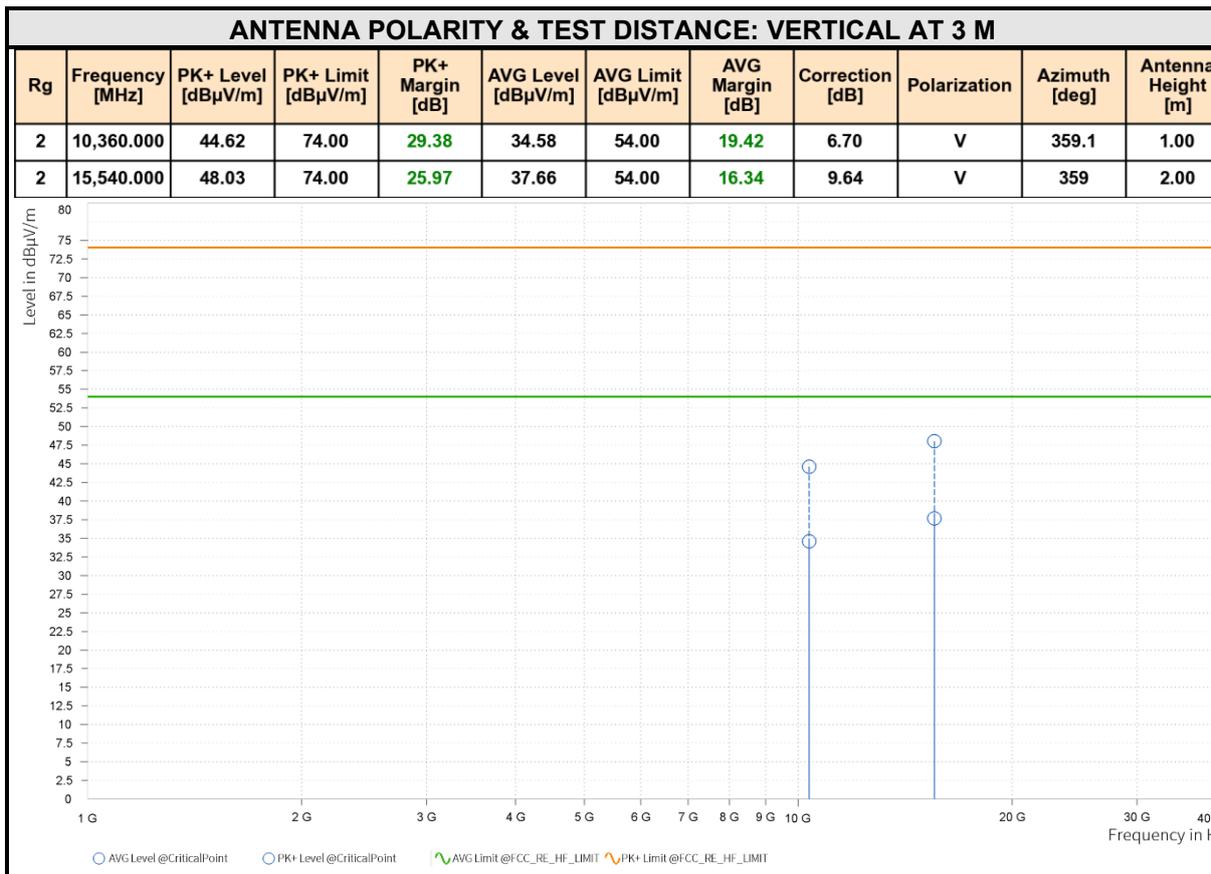
<b>CHANNEL</b>	Channel	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			
<b>REMARKS:</b> <ol style="list-style-type: none"><li>1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).</li><li>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).</li><li>3. The other emission levels were very low against the limit.</li><li>4. Margin value = Limit value- Emission level.</li></ol>			



**ABOVE 1GHz WORST-CASE DATA**

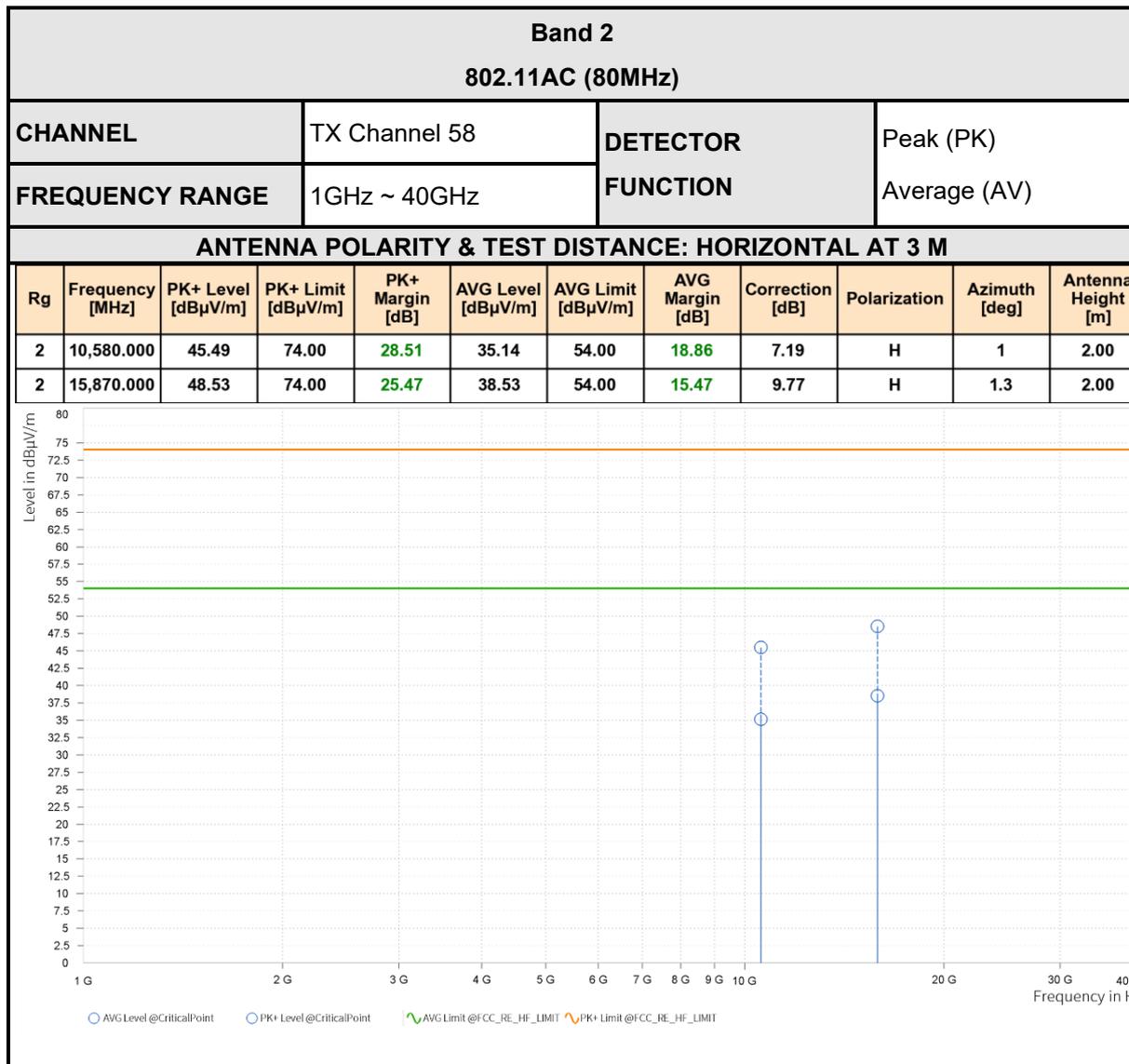
**Note:** 1. For higher frequency, the emission is too low to be detected.  
 2. For radiated emission testing, all supported channels, bandwidths and modes have been tested, the report only shown the worst-case data of each sub-band.

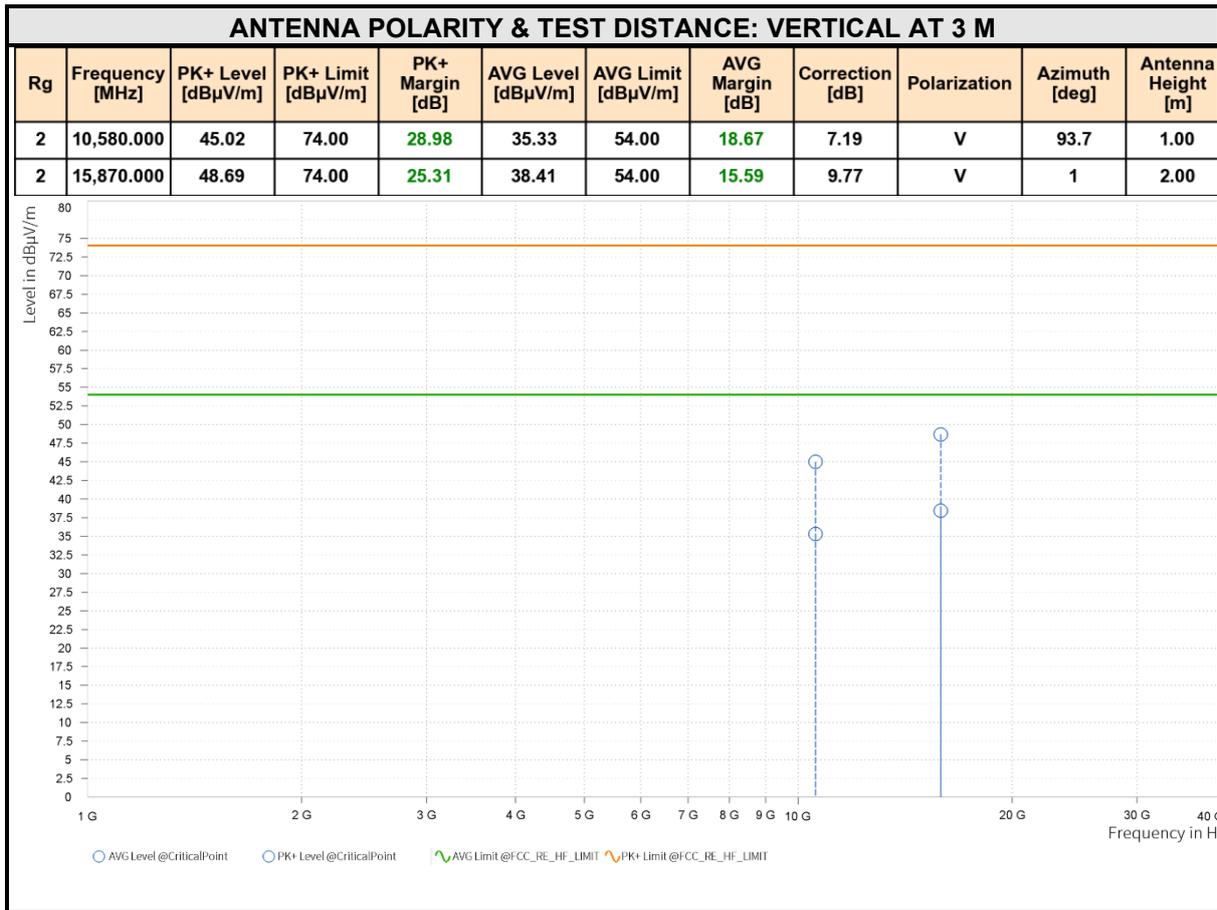




**REMARKS:**

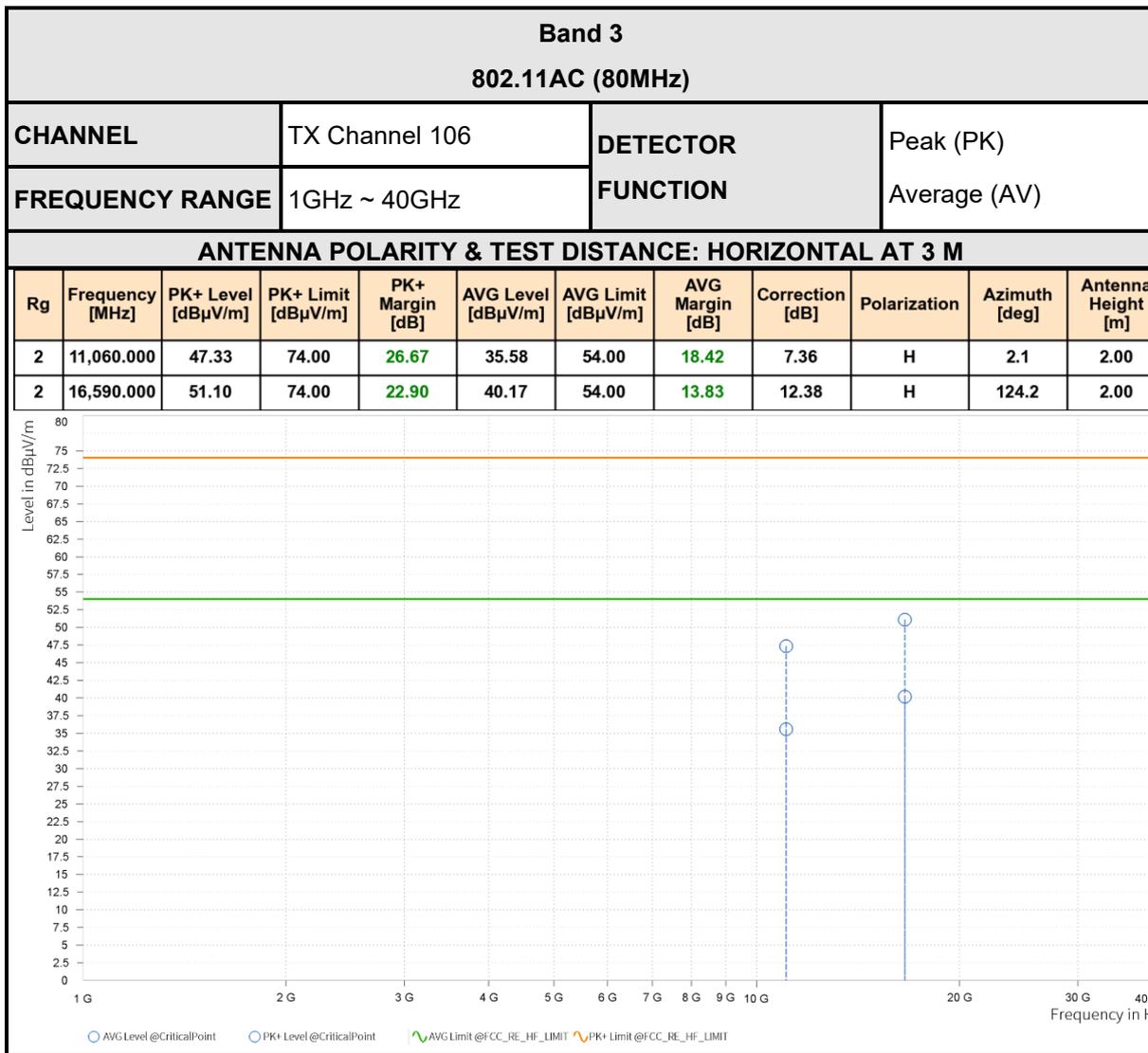
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5210MHz: Fundamental frequency.





**REMARKS:**

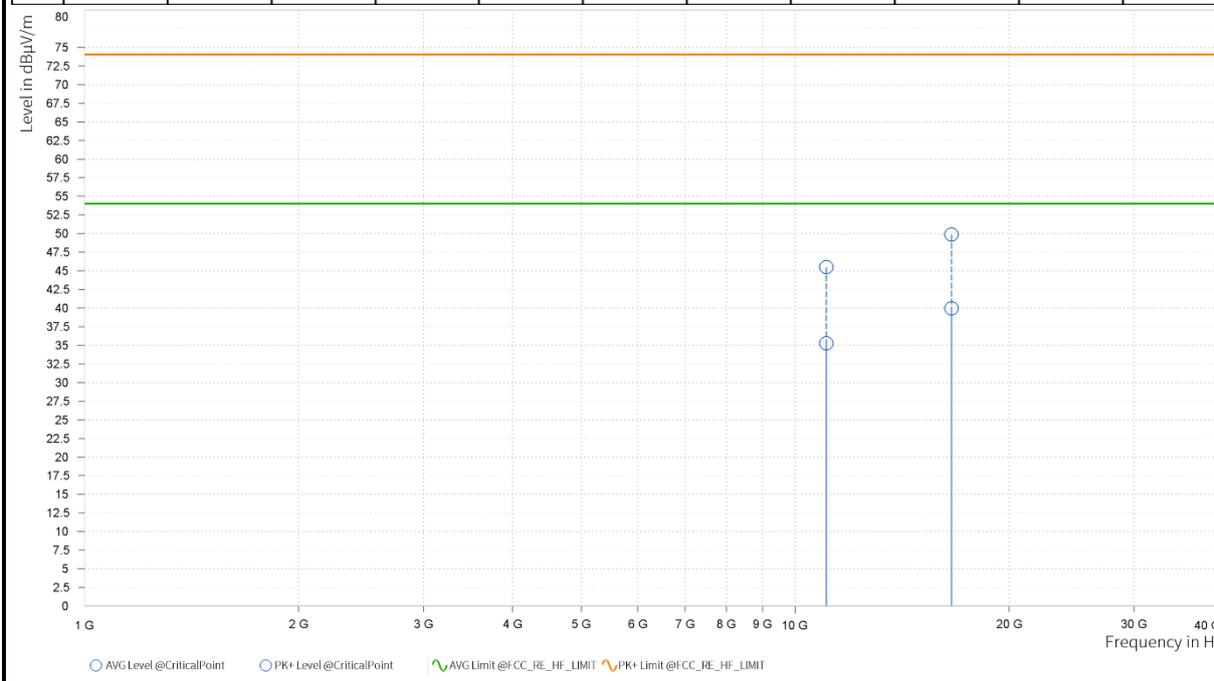
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5290MHz: Fundamental frequency.





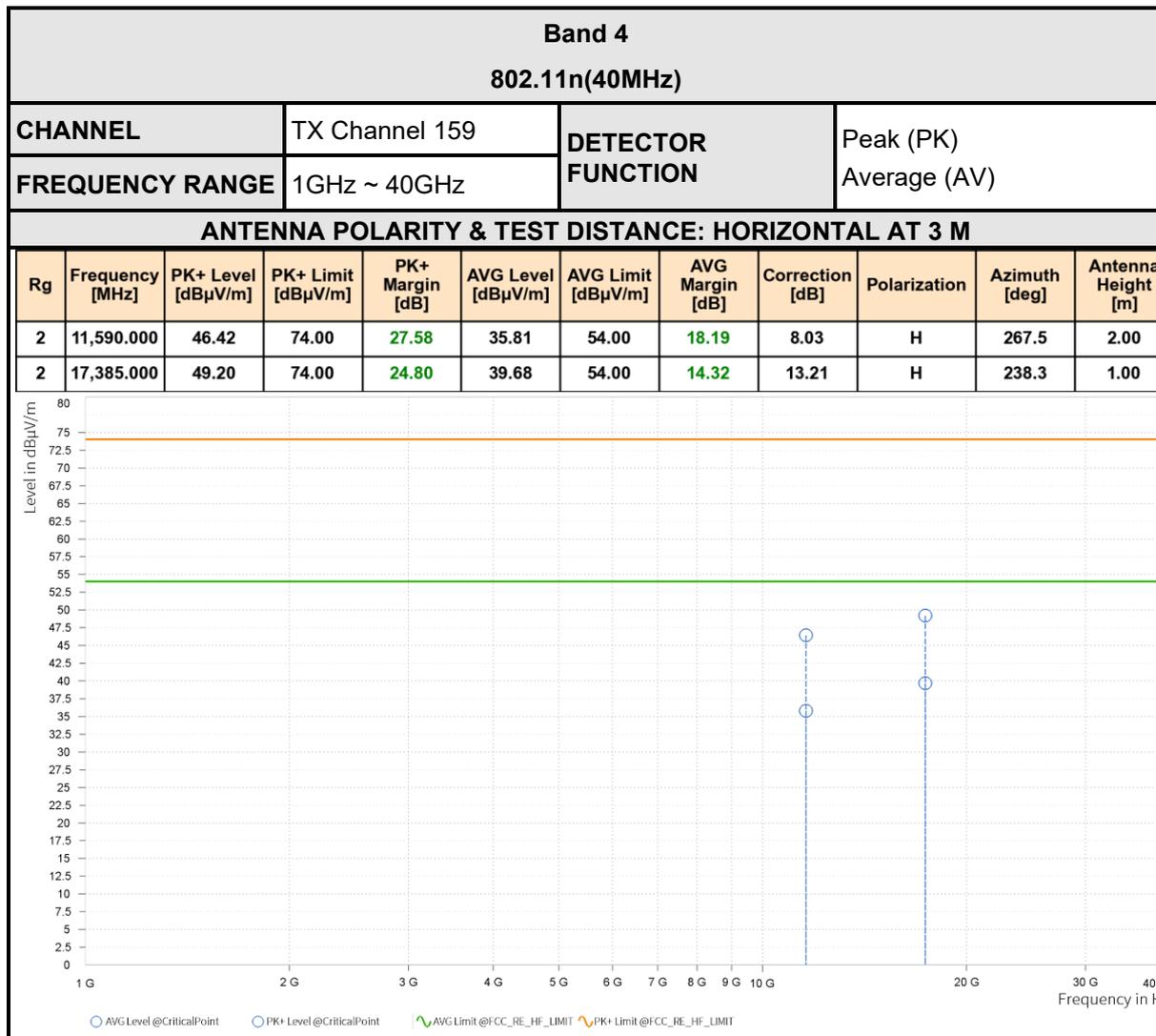
**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

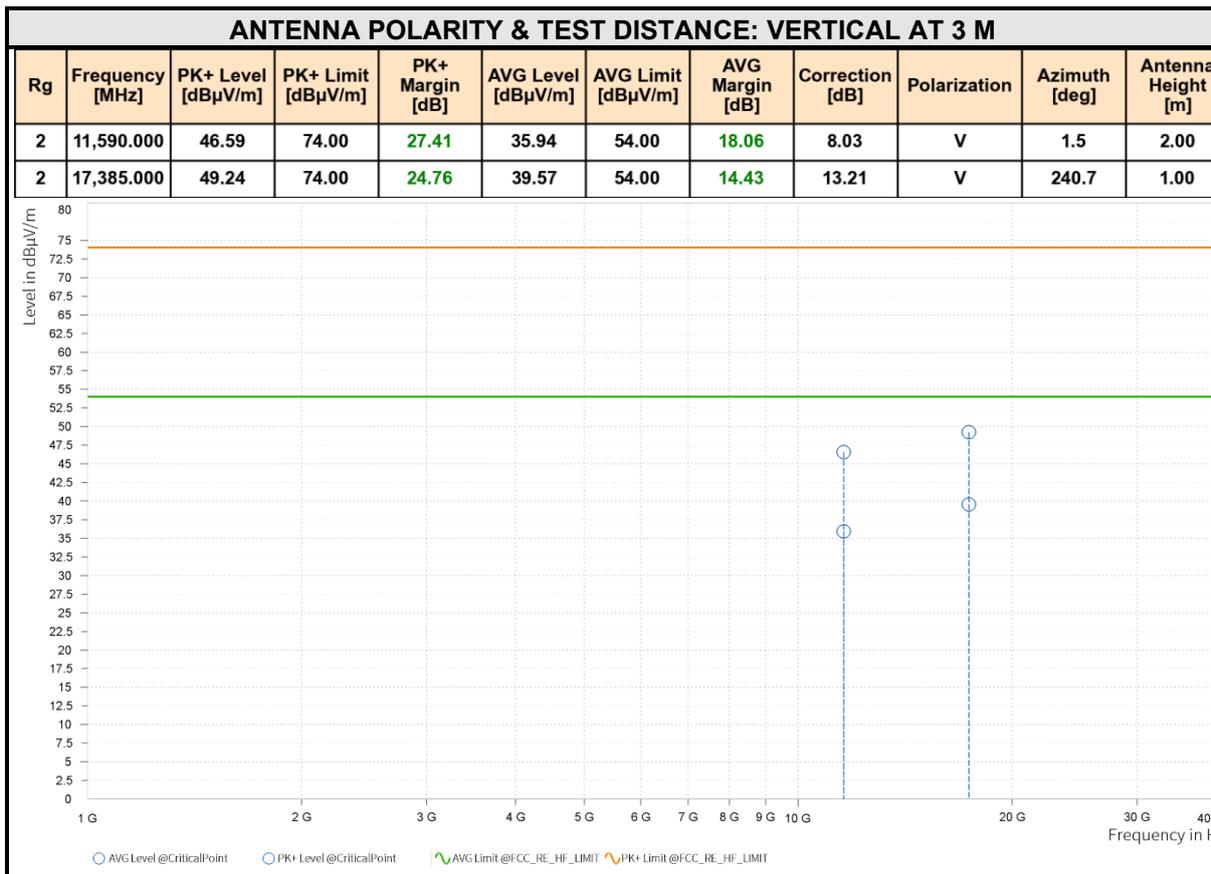
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	11,060.000	45.49	74.00	28.51	35.26	54.00	18.74	7.36	V	1	2.00
2	16,590.000	49.86	74.00	24.14	39.95	54.00	14.05	12.38	V	228.1	2.00



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5530MHz: Fundamental frequency.
4. #: Out of restricted band.





**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
2. Margin value = Limit value- Emission level.
3. 5785MHz: Fundamental frequency.



### 3.2 CONDUCTED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 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.
- 3 All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Mar.28,24	Mar.27,26
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Mar.28,24	Mar.27,26
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.26,25	Apr.25,26
CABLE	Rohde&Schwarz	W601	N/A	Apr.26,25	Apr.25,26

**NOTE:**

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



### 3.2.3 TEST PROCEDURES

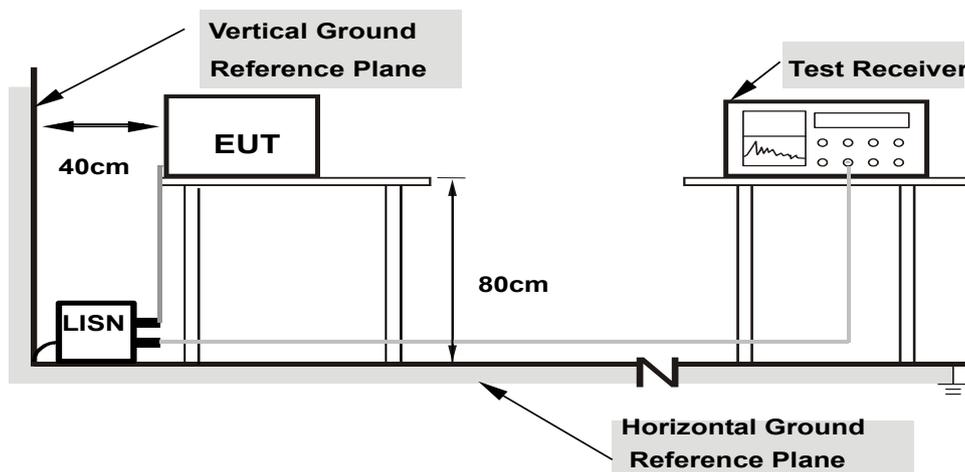
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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:** All modes of operation were investigated and the worst-case emissions are reported.

### 3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

### 3.2.5 TEST SETUP



- Note:**
- 1. Support units were connected to second LISN.
  - 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

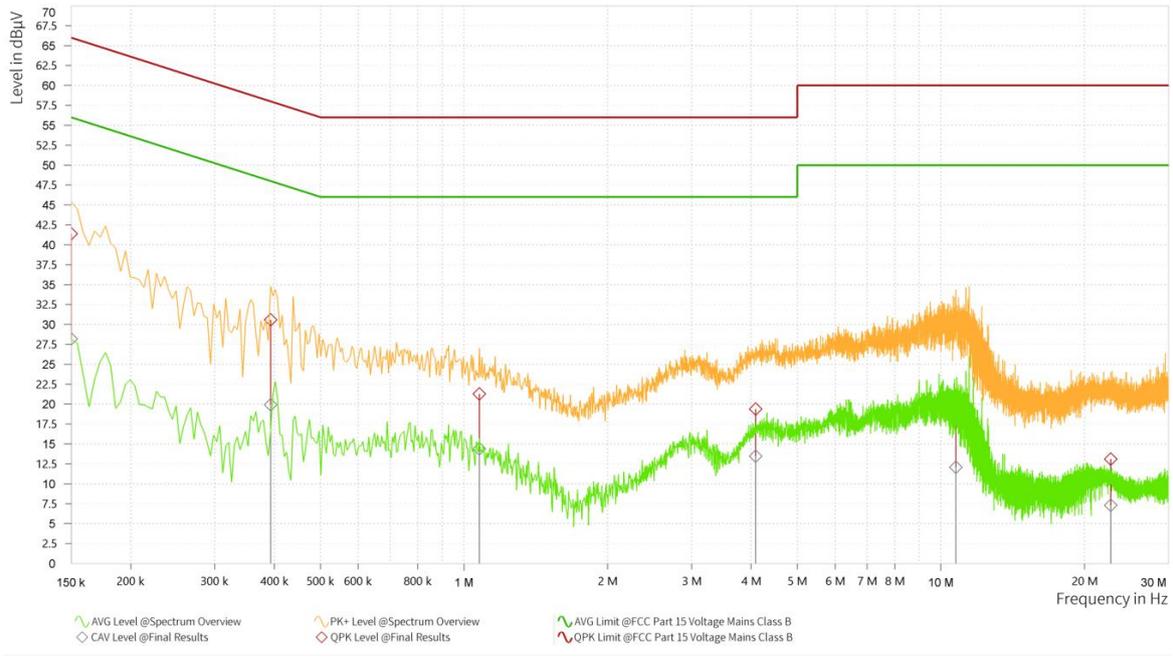


### 3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA										
FREQUENCY RANGE		150KHz ~ 30MHz			DETECTOR FUNCTION & RESOLUTION BANDWIDTH		Quasi-Peak (QP) / Average (AV), 9 kHz			
INPUT POWER		120Vac, 60Hz			ENVIRONMENTAL CONDITIONS		26deg. C, 51%RH			
TESTED BY		Hanwen Xu								
Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.150	41.39	66.00	24.61	28.18	56.00	27.82	9.80	L1	9.000
1	0.393	30.58	58.00	27.42	19.92	48.00	28.08	9.76	L1	9.000
1	1.077	21.27	56.00	34.73	14.40	46.00	31.60	9.77	L1	9.000
1	4.088	19.38	56.00	36.62	13.47	46.00	32.53	10.05	L1	9.000
1	10.748	18.27	60.00	41.73	12.08	50.00	37.92	11.18	L1	9.000
1	22.713	13.09	60.00	46.91	7.30	50.00	42.70	13.65	L1	9.000

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and
3. measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Limit value - Emission level
6. Correction factor = Insertion loss + Cable loss
7. Emission Level = Correction Factor + Reading Value.





<b>FREQUENCY RANGE</b>	150KHz ~ 30MHz	<b>DETECTOR FUNCTION &amp; RESOLUTION BANDWIDTH</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>INPUT POWER</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 51%RH
<b>TESTED BY</b>	Hanwen Xu		

Rg	Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	CAV Level [dBμV]	CAV: AVG Limit [dBμV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.168	37.77	65.06	27.29	22.45	55.06	32.60	9.82	N	9.000
1	0.402	30.35	57.81	27.46	21.67	47.81	26.14	9.77	N	9.000
1	1.226	18.90	56.00	37.10	11.93	46.00	34.07	9.79	N	9.000
1	4.304	22.41	56.00	33.59	16.38	46.00	29.62	10.10	N	9.000
1	11.306	22.01	60.00	37.99	13.24	50.00	36.76	11.39	N	9.000
1	27.632	13.32	60.00	46.68	7.62	50.00	42.38	14.20	N	9.000

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and
3. measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Limit value - Emission level
6. Correction factor = Insertion loss + Cable loss
7. Emission Level = Correction Factor + Reading Value.

