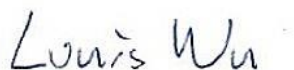


# FCC RADIO TEST REPORT

**FCC ID** : GKRG77PA  
**Equipment** : Wireless Device  
**Applicant** : Compal Electronics, Inc.  
No. 581-1 & 581, Ruiguang Rd., Nei-hu District,  
Taipei City 114, TAIWAN (R.O.C.)  
**Standard** : FCC Part 15 Subpart C §15.209

The product was received on Apr. 26, 2021 and testing was performed from Apr. 27, 2021 to Jul. 13, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issued Date
FR130402-03	01	Initial issue of report	Jul. 07, 2022
FR130402-03	02	1. Add description in Section 2.1 2. Revise RF Near Field Data	Jul. 14, 2022

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	7.58 dB under the limit at 0.501 MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Reporting only	-
	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.209	Field Strength of Fundamental Emissions	Pass	8.30 dB under the limit at 231.760 MHz
		Radiated Spurious Emissions		
3.4	15.203	Antenna Requirements	Pass	-

**Declaration of Conformity:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

**Comments and Explanations:**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Avis Chuang**

**Report Producer: Lucy Wu**

## 1. General Description

### 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Device
FCC ID	GKRG77PA
EUT supports Radios application	WPT

**Remark:** The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
18170L4EK00041	RF Near Field
	Radiated Spurious Emissions
	Conducted Emission

### 1.2 Product Specification of Equipment Under Test

Product Specification is subjective to this standard	
Transmitter Frequency Range	165kHz ~ 205kHz
99%OBW	0.642 kHz
Antenna Type	Integral antenna
Type of Modulation	ASK

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

### 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.4 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory	
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH03-HY	CO05-HY
<b>Test Engineer</b>	Cotty Hsu	Tom Lee and Calvin Wang
<b>Temperature</b>	22~24°C	23~26°C
<b>Relative Humidity</b>	53~55%	40~50%

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory	
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	03CH11-HY (TAF Code: 3786)	
<b>Test Engineer</b>	Harvery Guo and Fu Chen	
<b>Temperature</b>	19.1~23.1°C	
<b>Relative Humidity</b>	53.2~69.2%	
<b>Remark</b>	The Radiated test item subcontracted to Sporton International Inc. Wensan Laboratory.	

FCC designation No.: TW1190 and TW3786

## 1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.209
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

### Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2. Test Configuration of Equipment Under Test

### 2.1 Descriptions of Test Mode

The preliminary exploratory measurements are performed by varying the orientation of the EUT (and different accessories, WPT power zone, separation) for finding the configuration that generates the highest levels of emissions. The final compliance measurement is performed on the worst-case EUT configuration and is recorded in this report.

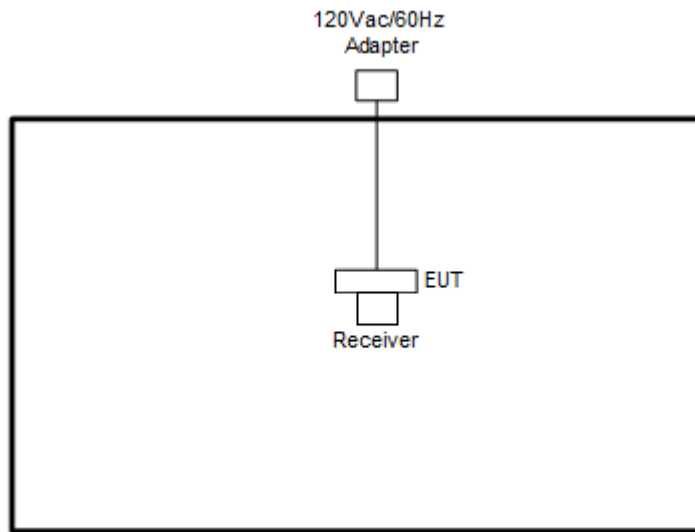
The EUT (WPTC transmitter) is charged by Wireless Charger (supported unit) with zero separation and the battery level of WPT is set to less than 20% as worst configuration.

Test Items	
AC Power Line Conducted Emissions	20dB Spectrum Bandwidth
Field Strength of Fundamental Emissions	
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

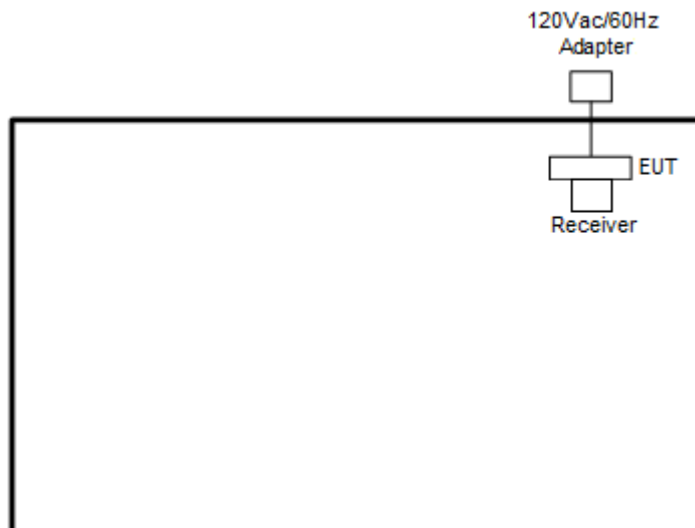
Test Cases	
AC Conducted Emission	Mode 1: Power Adapter + EUT + Rx

## 2.2 Connection Diagram of Test System

<TX Mode>



<AC Conducted Emission Mode>



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Model Name	FCC ID	Data Cable	Power Cord
1.	Receiver	N/A	N/A	N/A	N/A
2.	Adapter	N/A	N/A	N/A	N/A

## 2.4 EUT Operation Test Setup

The EUT is transmitting wireless power to the receiver



### 3. Test Results

#### 3.1 AC Power Line Conducted Emissions Measurement

##### 3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

\*Decreases with the logarithm of the frequency.

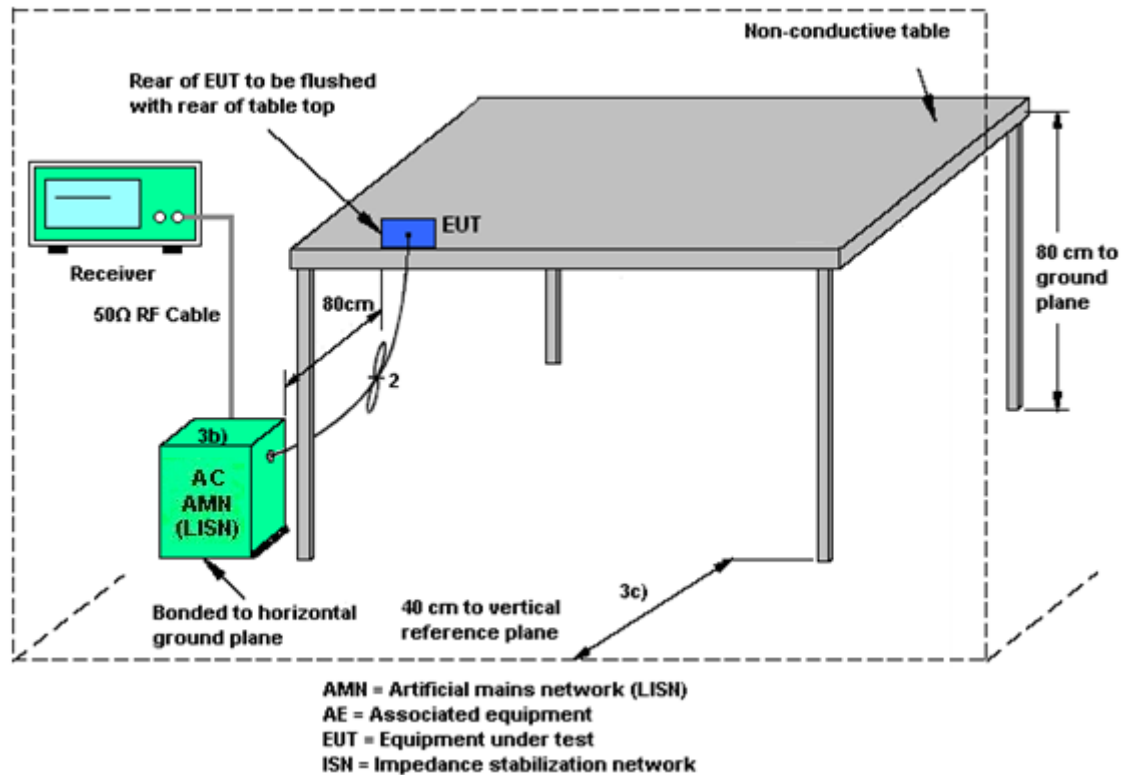
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test setup



### 3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

## 3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

### 3.2.1 Limit

Reporting only

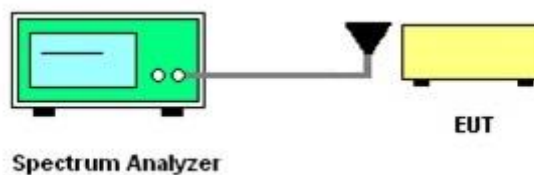
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

### 3.2.4 Test Setup



### 3.2.5 Test Result of RF Near Field Test Items

Please refer to Appendix B.

### 3.3 Radiated Emissions Measurement

#### 3.3.1 Limit

The field strength of any emissions which appear band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength ( $\mu\text{V/m}$ )	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Measuring Instrument Setting

The following table is the setting of receiver:

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

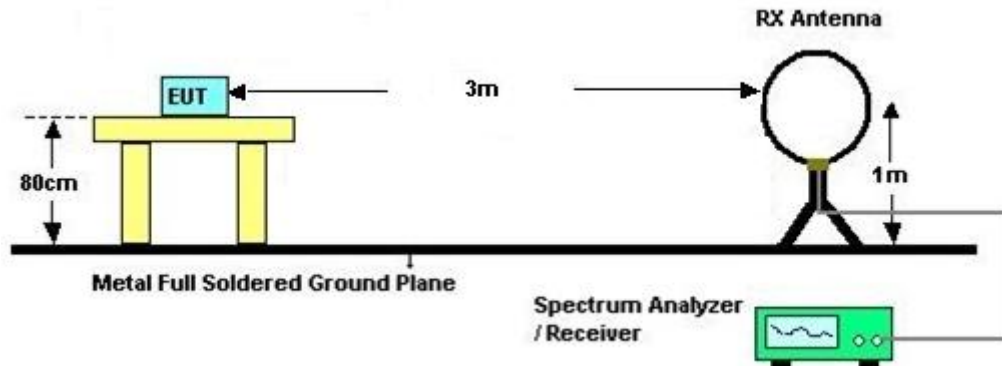
**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

### 3.3.4 Test Procedures

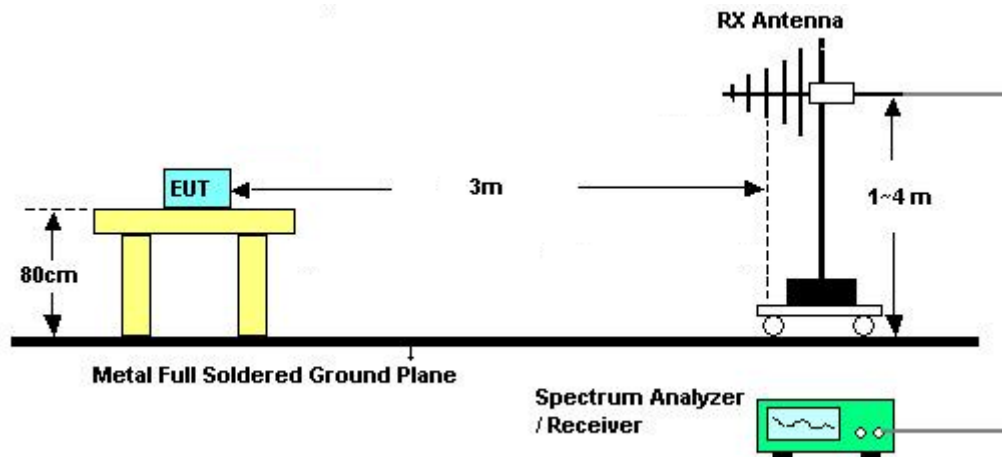
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.
8. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.

### 3.3.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



### 3.3.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

#### Remark:

1. There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.
2. According to C63.10 radiated test, the EUT pre-scanned horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.



### **3.4 Antenna Requirements**

#### **3.4.1 Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

#### **3.4.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP210073	N/A	Nov. 16, 2021	Jul. 13, 2022	Nov. 15, 2022	RF Near Field (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2021	Jul. 13, 2022	Sep. 29, 2022	RF Near Field (TH03-HY)
Nearby field probe	LANGER EMV-TECHNIK	LF-U5	02-559	100 kHz up to 50 MHz	Apr. 04, 2022	Jul. 13, 2022	Apr. 03, 2023	RF Near Field (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 08, 2021 ~ Aug. 31, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jul. 08, 2021 ~ Aug. 31, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jul. 08, 2021 ~ Aug. 31, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jul. 08, 2021 ~ Aug. 31, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 08, 2021 ~ Aug. 31, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jul. 08, 2021 ~ Aug. 31, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jul. 08, 2021 ~ Aug. 31, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Apr. 27, 2021 ~ Aug. 25, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Nov. 01, 2021	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 27, 2021 ~ Aug. 25, 2021	N/A	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 27, 2021 ~ Aug. 25, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 27, 2021 ~ Aug. 25, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 27, 2021 ~ Aug. 25, 2021	N/A	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000C 7/40SS	SN2	20M High Pass	Sep. 14, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Apr. 27, 2021 ~ Aug. 25, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Apr. 27, 2021 ~ Aug. 25, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Apr. 27, 2021 ~ Aug. 25, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 18, 2020	Apr. 27, 2021 ~ Aug. 25, 2021	Nov. 17, 2021	Radiation (03CH11-HY)



## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.3 dB
--	--------

### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.4 dB
--	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.4 dB
--	--------

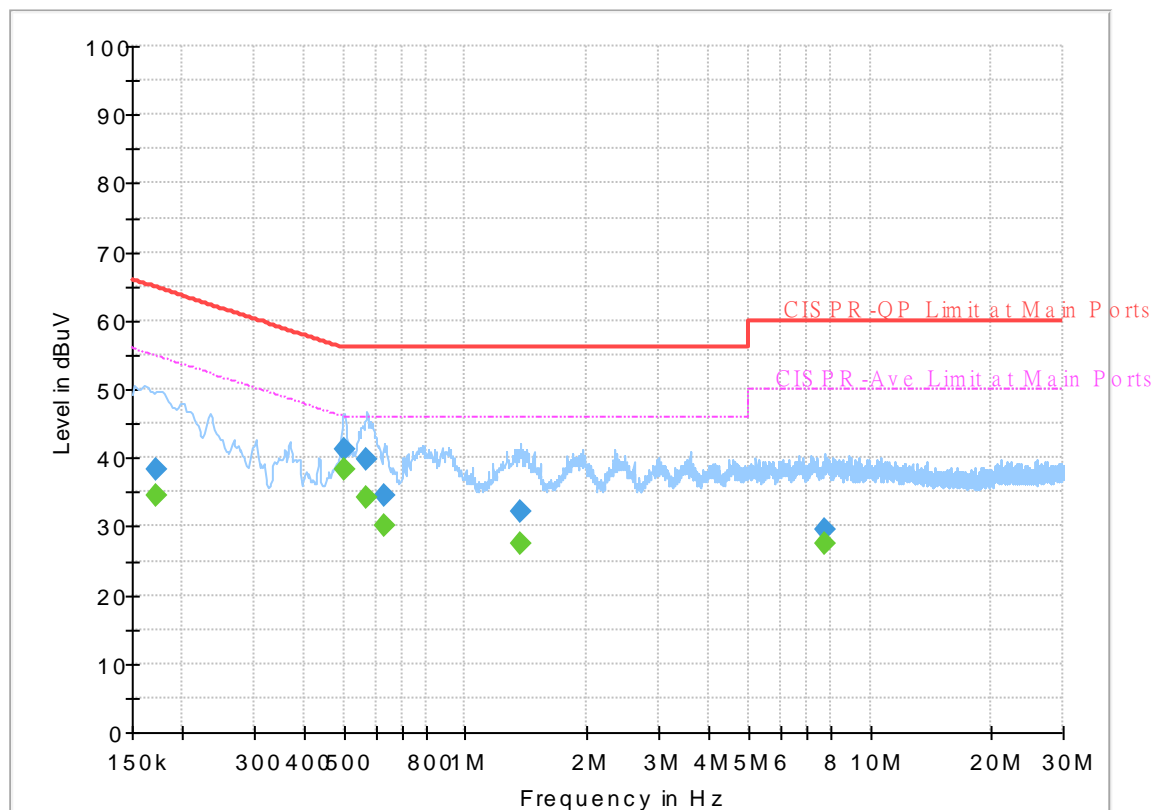


## **Appendix A. Test Results of Conducted Emission Test**

## EUT Information

Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



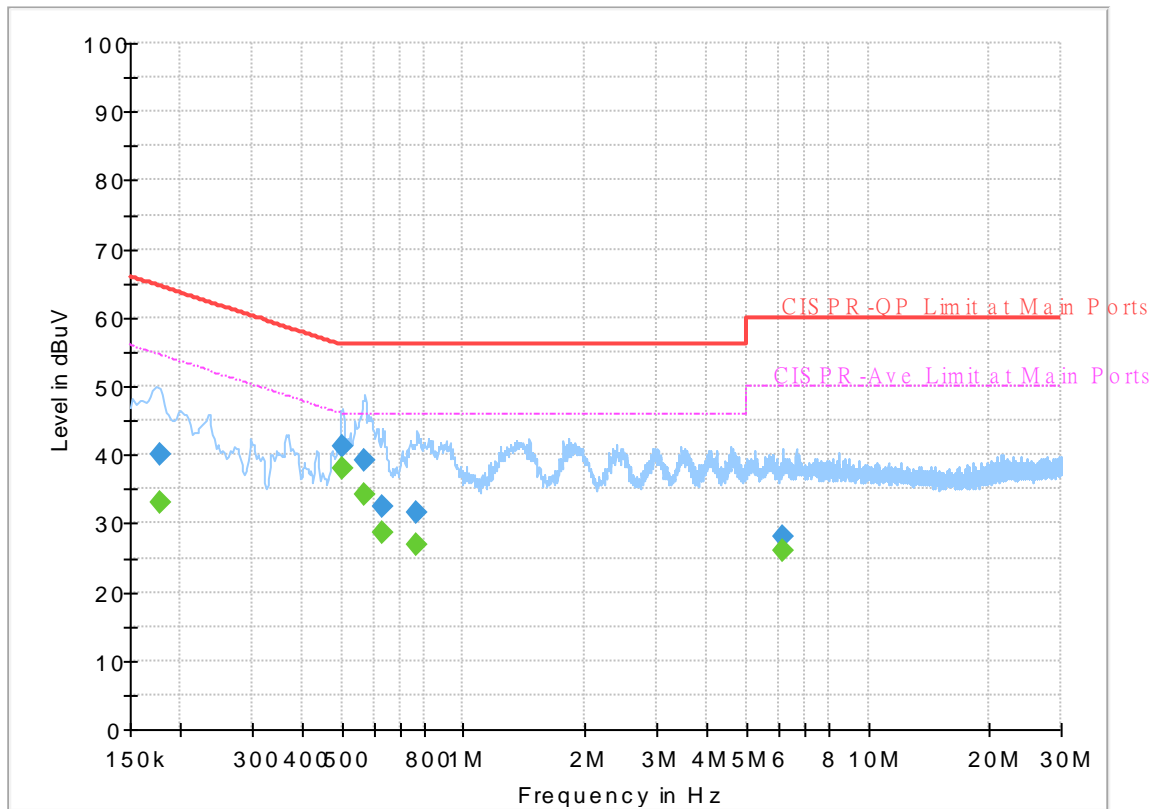
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	34.43	54.84	20.41	L1	OFF	19.6
0.172500	38.43	---	64.84	26.41	L1	OFF	19.6
0.501000	---	38.42	46.00	7.58	L1	OFF	19.8
0.501000	41.24	---	56.00	14.76	L1	OFF	19.8
0.570750	---	34.19	46.00	11.81	L1	OFF	19.9
0.570750	39.70	---	56.00	16.30	L1	OFF	19.9
0.631500	---	30.17	46.00	15.83	L1	OFF	19.9
0.631500	34.65	---	56.00	21.35	L1	OFF	19.9
1.369500	---	27.34	46.00	18.66	L1	OFF	20.2
1.369500	32.04	---	56.00	23.96	L1	OFF	20.2
7.721250	---	27.36	50.00	22.64	L1	OFF	20.1
7.721250	29.65	---	60.00	30.35	L1	OFF	20.1

## EUT Information

Test Voltage : 120Vac/60Hz  
Phase : Neutral

Full Spectrum

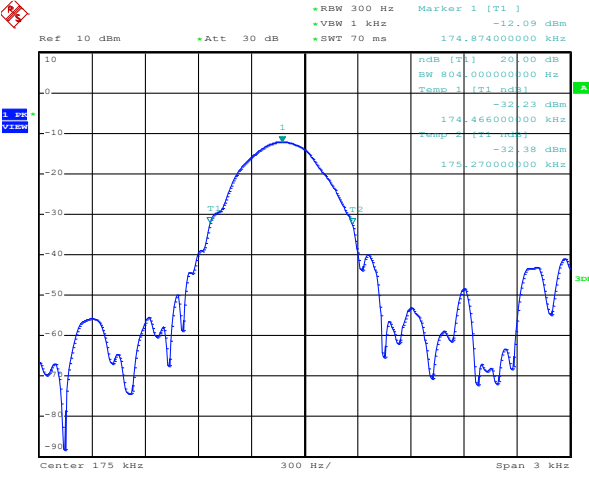
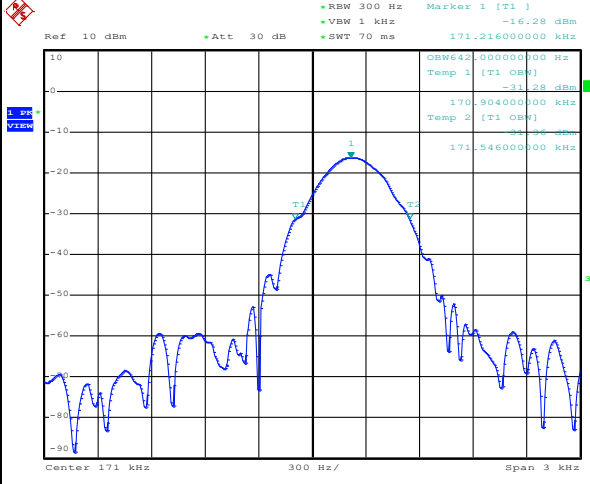


## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	33.08	54.63	21.55	N	OFF	19.7
0.177000	39.95	---	64.63	24.68	N	OFF	19.7
0.503250	---	38.14	46.00	7.86	N	OFF	19.8
0.503250	41.16	---	56.00	14.84	N	OFF	19.8
0.570750	---	34.08	46.00	11.92	N	OFF	19.9
0.570750	39.13	---	56.00	16.87	N	OFF	19.9
0.629250	---	28.68	46.00	17.32	N	OFF	19.9
0.629250	32.59	---	56.00	23.41	N	OFF	19.9
0.768750	---	27.00	46.00	19.00	N	OFF	20.1
0.768750	31.66	---	56.00	24.34	N	OFF	20.1
6.141750	---	26.17	50.00	23.83	N	OFF	20.1
6.141750	28.06	---	60.00	31.94	N	OFF	20.1



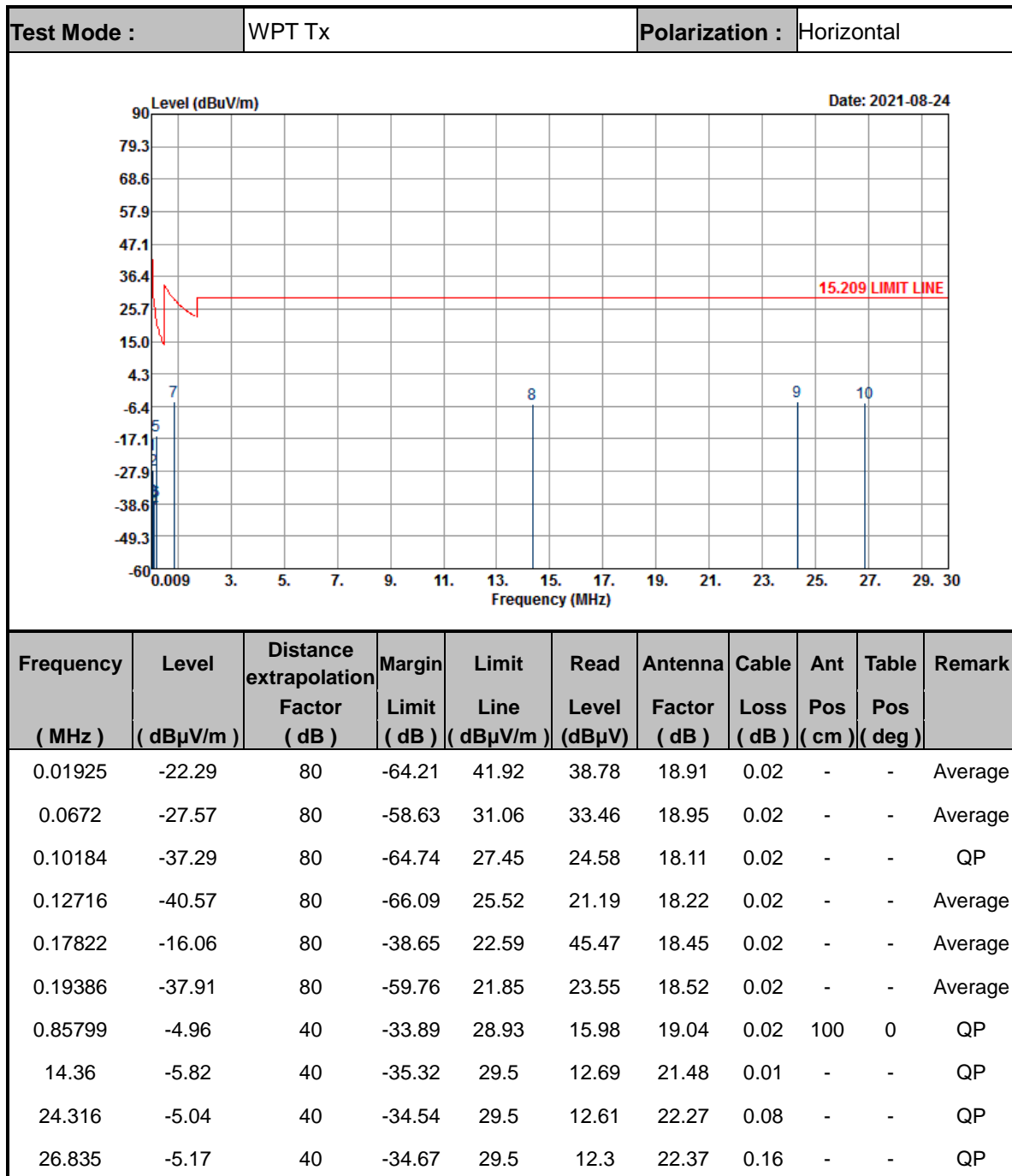
## Appendix B. Test Results of RF Near Field Test Items

Test mode		WPT Tx	
 <p>Ref 10 dBm Att 30 dB RBW 300 Hz VBW 1 kHz SWT 70 ms Marker 1 [T1] -12.09 dBm 174.87400000 kHz nBW [T1] 20.60 dB BW 804.00000000 Hz Temp 1 [T1] ndB1 -32.23 dBm 174.46600000 kHz Temp 2 [T2] ndB1 -32.38 dBm 175.27000000 kHz</p> <p>Center 175 kHz 300 Hz/ Span 3 kHz</p> <p>Date: 13.JUL.2022 16:50:31</p>		 <p>Ref 10 dBm Att 30 dB RBW 300 Hz VBW 1 kHz SWT 70 ms Marker 1 [T1] -16.28 dBm 171.21600000 kHz OBW642.00000000 Hz Temp 1 [T1] OBW -31.28 dBm 170.90400000 kHz Temp 2 [T2] OBW -31.36 dBm 171.54600000 kHz</p> <p>Center 171 kHz 300 Hz/ Span 3 kHz</p> <p>Date: 13.JUL.2022 16:49:10</p>	
<b>20dB Bandwidth (kHz)</b>		0.804	<b>99% Occupied BW(kHz)</b>
			0.642

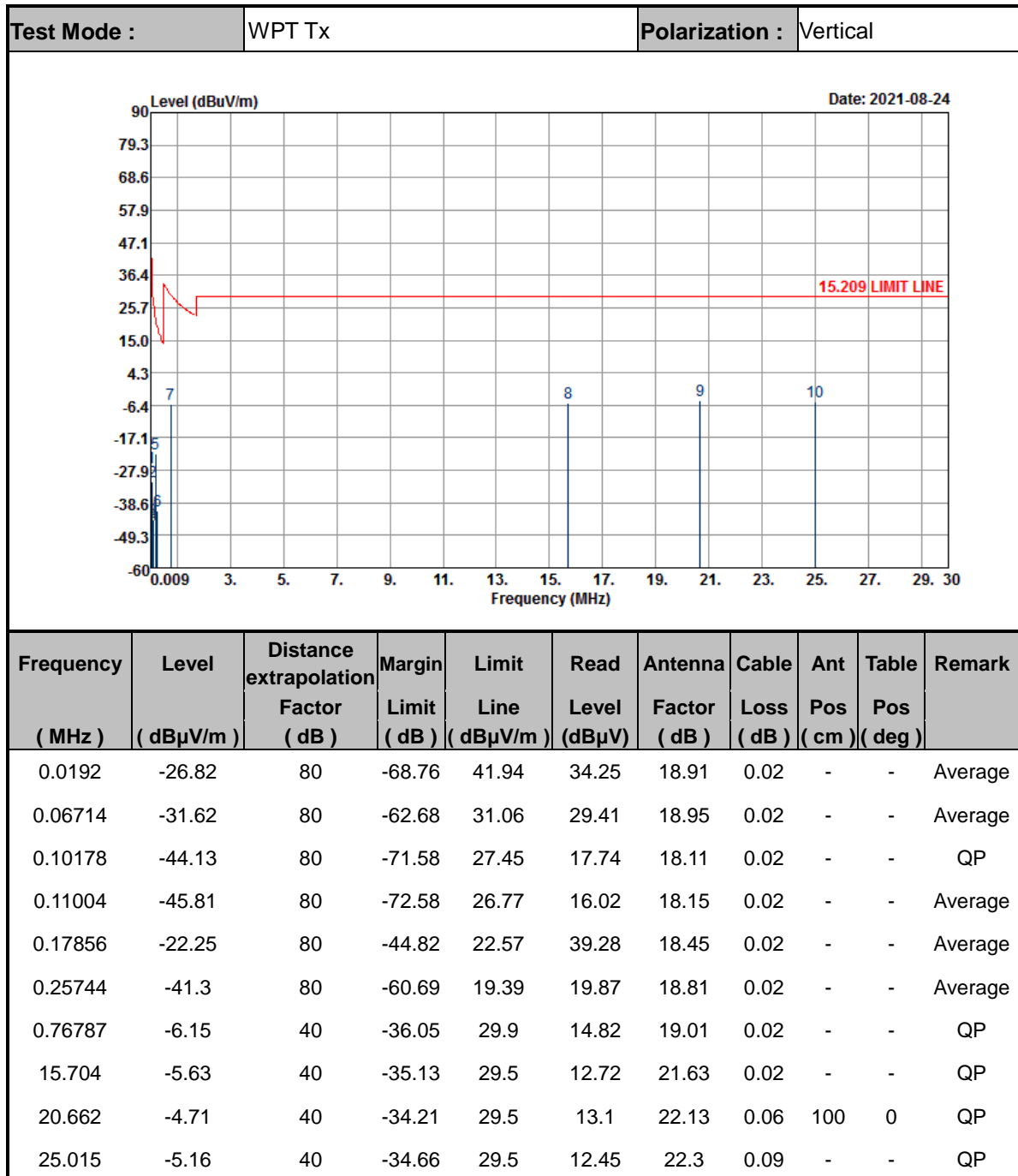
**Remark:** Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

## Appendix C. Test Results of Radiated Test Items

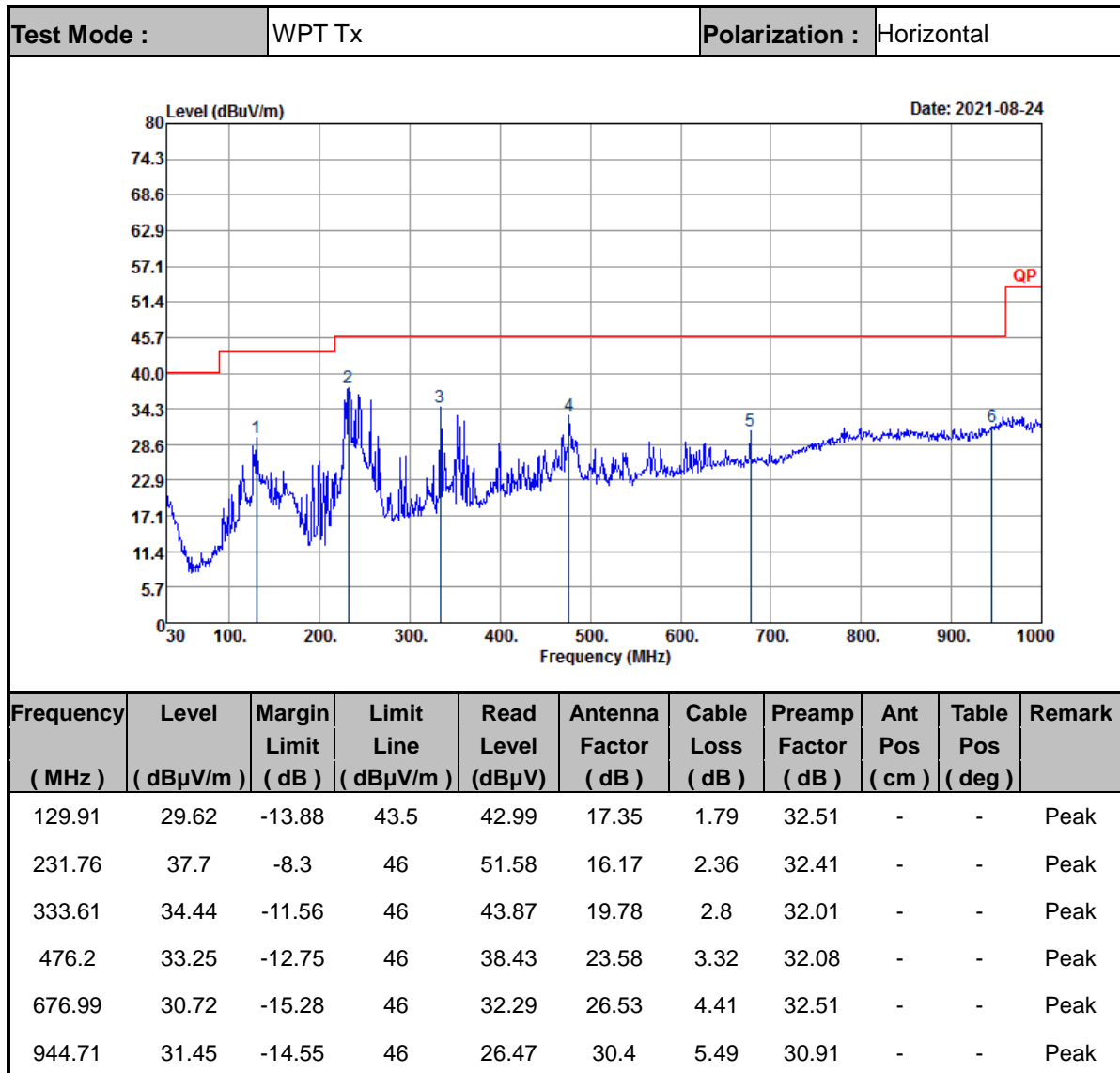
### C1. Results of Radiated Spurious Emissions (9 kHz~30MHz)


**Note:**

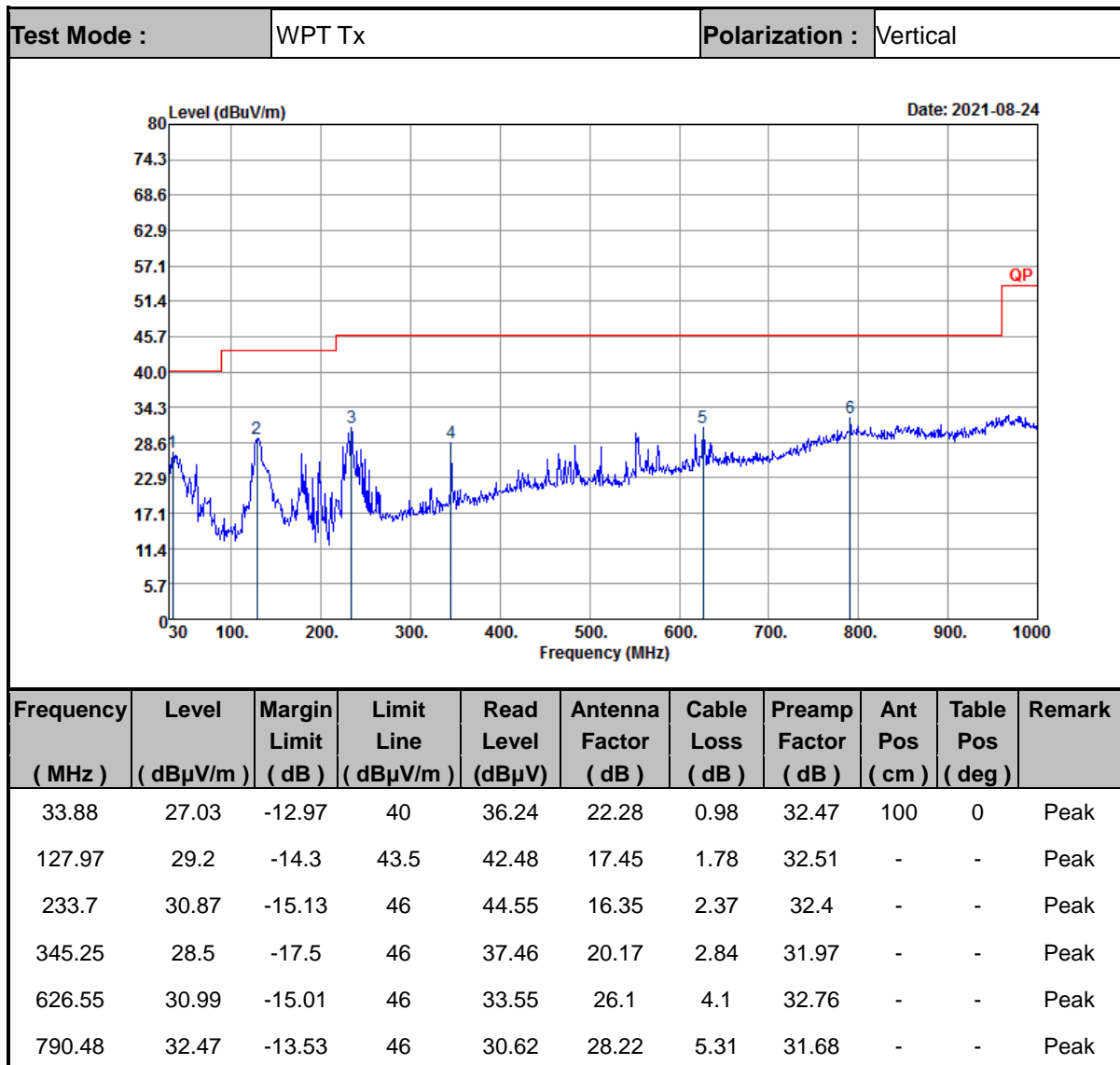
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Level= Read Level + Antenna Factor + Cable loss - distance extrapolation factor.
4. Frequency 0.17822 MHz is fundamental emissions signal.


**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Level= Read Level + Antenna Factor + Cable loss - distance extrapolation factor.
4. Frequency 0.17856 MHz is fundamental emissions signal.

**C2. Results of Radiated Spurious Emissions (30MHz~1GHz)**





**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.
4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

—————THE END—————