



# FCC RADIO TEST REPORT

**FCC ID** : 2AWGI05181994  
**Equipment** : POWER DOCK  
**Brand Name** : PUFFCO  
**Model Name** : 051894  
**Applicant** : Puff Corporation  
1201 W 5th Street Suite T530,  
Los Angeles 90017  
**Manufacturer** : Puff Corp  
1201 W 5th Street Suite T530,  
Los Angeles 90017  
**Standard** : FCC Part 15 Subpart C §15.209

The product was received on Jun. 29, 2020 and testing was started from Jul. 03, 2020 and completed on Jul. 14, 2020. 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.

Reviewed by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth

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C1. Test Result of Field Strength of Fundamental Emissions

C2. Results of Radiated Emissions (9 kHz~30MHz)

C3. Results of Radiated Emissions (30MHz~1GHz)

### Appendix D. Setup Photographs



## History of this test report



## 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	Under limit 9.83 dB at 0.161MHz
3.2	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.209	Field Strength of Fundamental Emissions	Pass	Max level 13.25 dB $\mu$ V/m at 0.150 MHz
		Radiated Spurious Emissions	Pass	Under limit 6.38 dB at 39.180MHz
3.4	15.203	Antenna Requirements	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Lucy Wu



## 1. General Description

### 1.1 Product Feature of Equipment Under Test

WPT

Product Specification subjective to this standard	
Antenna Type	Wire Antenna

### 1.2 Modification of EUT

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

### 1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	<b>Sporton Site No.</b>		
	TH03-HY	CO05-HY	03CH07-HY
Test Engineer	Louis Chung	Tom Lee	Jesse Wang
Temperature	25.8°C	23~25°C	23~24°C
Relative Humidity	53.1%	42~50%	45~47%

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

### 1.4 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. The TAF code is not including all the FCC KDB listed without accreditation.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2. Test Configuration of Equipment Under Test

### 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

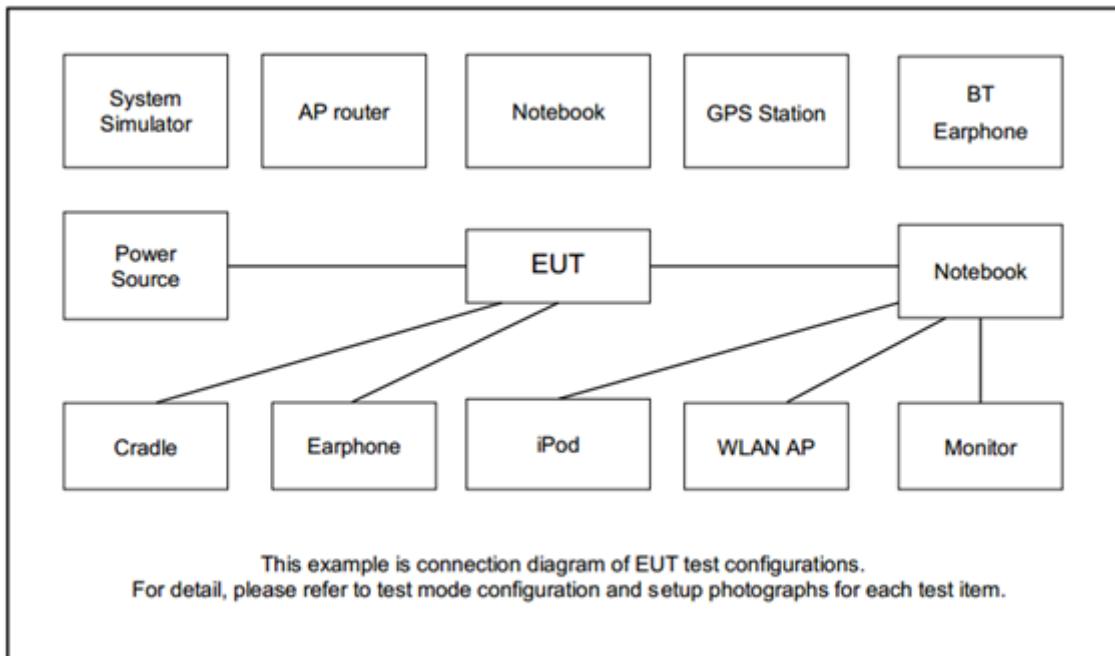
Test Items	
AC Power Line Conducted Emissions	20dB Spectrum Bandwidth
Field Strength of Fundamental Emissions	Radiated Emissions 9kHz~30MHz
Radiated Emissions 30MHz~1GHz	

Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration from all possible combinations.

Test Cases	
AC Conducted Emission	Mode 1: WPT Charging with Peak Pro + USB Cable (Type A) (Charging with Phone) + USB Cable (Type C) (Charging from Notebook) Mode 2: WPT Charging with Peak Pro + USB Cable (Type A) (Charging with Phone) + USB Cable (Type C) (Charging from Adapter)

**Remark:** The worst case of conducted emission is mode 1; only the test data of it was reported

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	USB Cable	N/A	HC70211.021	N/A	N/A	N/A
5.	Phone	Sony	I5	N/A	N/A	N/A
6.	Smart Phone	Samsung	A8	FCC DoC	N/A	N/A
7.	Adapter	VERTU	AC-32V	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
8.	Peak Pro	PUFFCO	Peak Pro	N/A	N/A	N/A

## 2.4 EUT Operation Test Setup

The EUT charger with Peak Pro via wireless power transfer function



### 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.

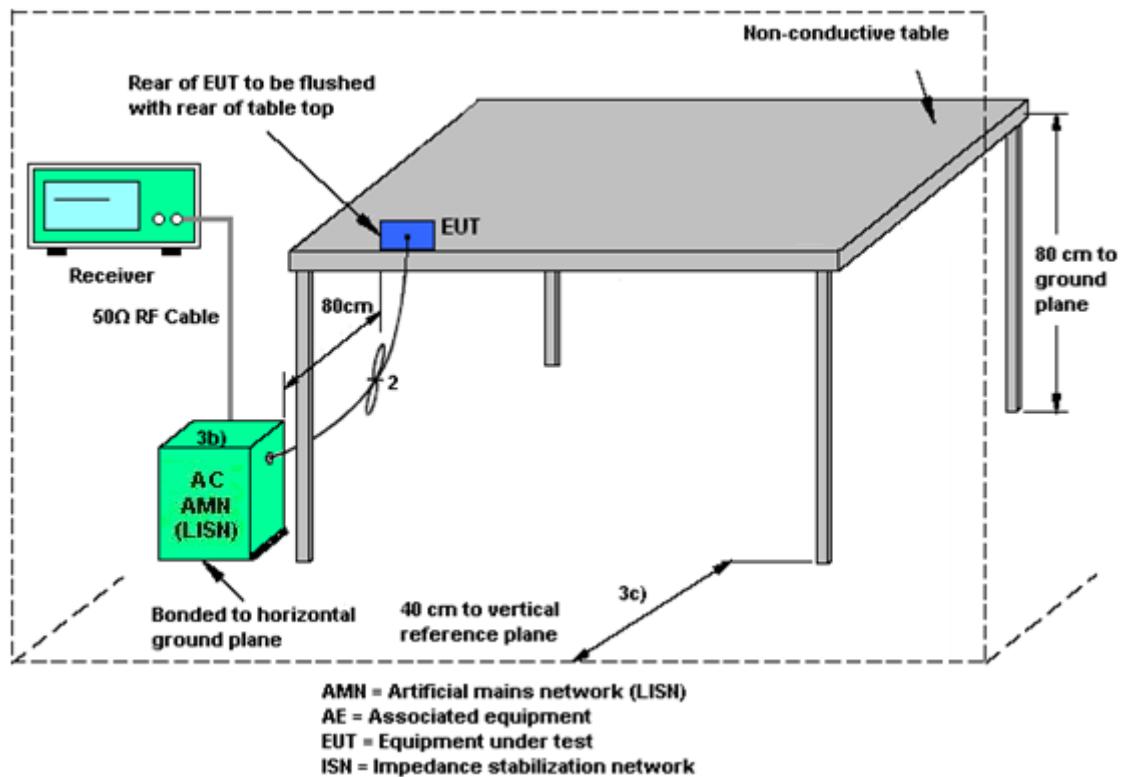
##### 3.1.2 Measuring Instruments

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 99% OBW Spectrum Bandwidth Measurement

### 3.2.1 Limit

Reporting only

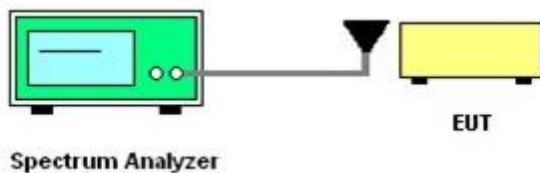
### 3.2.2 Measuring Instruments

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 1 kHz and the video bandwidth of 3 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 Conducted 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 ( $\mu$ 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.

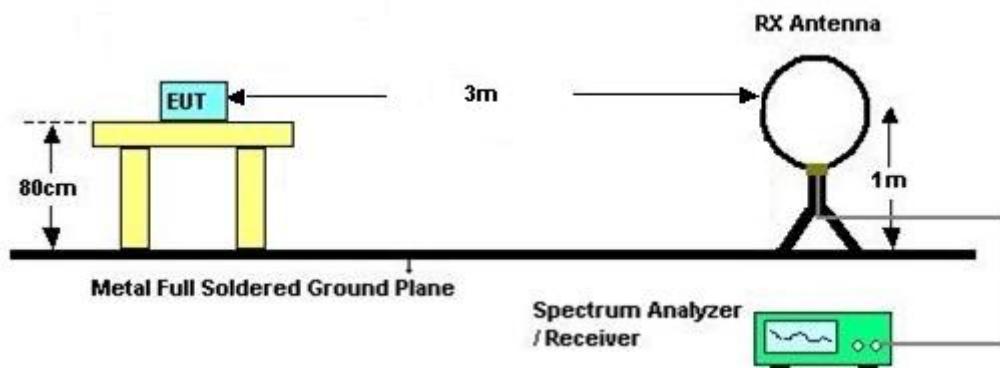


### 3.3.4 Test Procedures

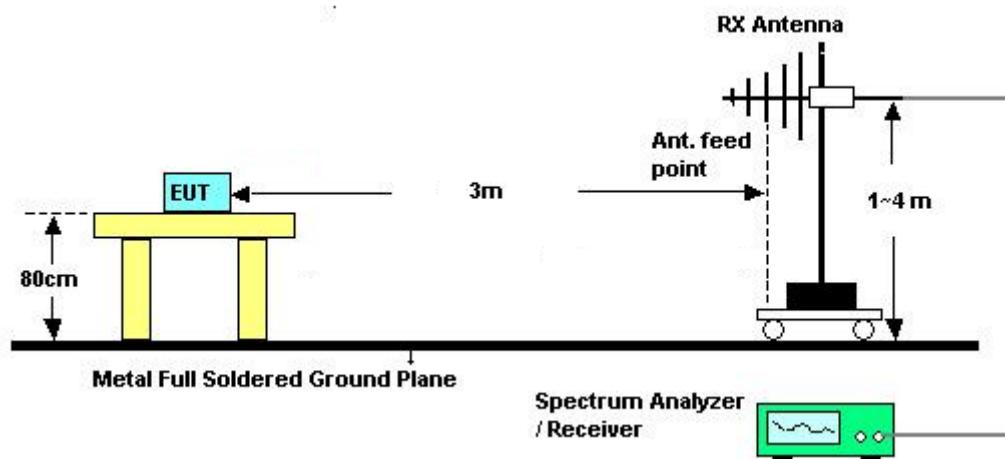
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting 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.

### 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.



## 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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 26, 2020	Jul. 14, 2020	Mar. 25, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	Jul. 14, 2020	Sep. 03, 2020	Conducted (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 03, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jul. 03, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Jul. 03, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Jul. 03, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jul. 03, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 03, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jul. 03, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jul. 03, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Jul. 13, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Jul. 13, 2020	May 20, 2021	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Jul. 13, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Jul. 13, 2020	May 18, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Jul. 13, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Jul. 13, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPTEL	TR-32	HE17XB2495	N/A	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Jul. 13, 2020	Jun. 08, 2021	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656H	N/A	N/A	Jul. 13, 2020	N/A	Radiation (03CH07-HY)



## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	2.3
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### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	2.6
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	4.6
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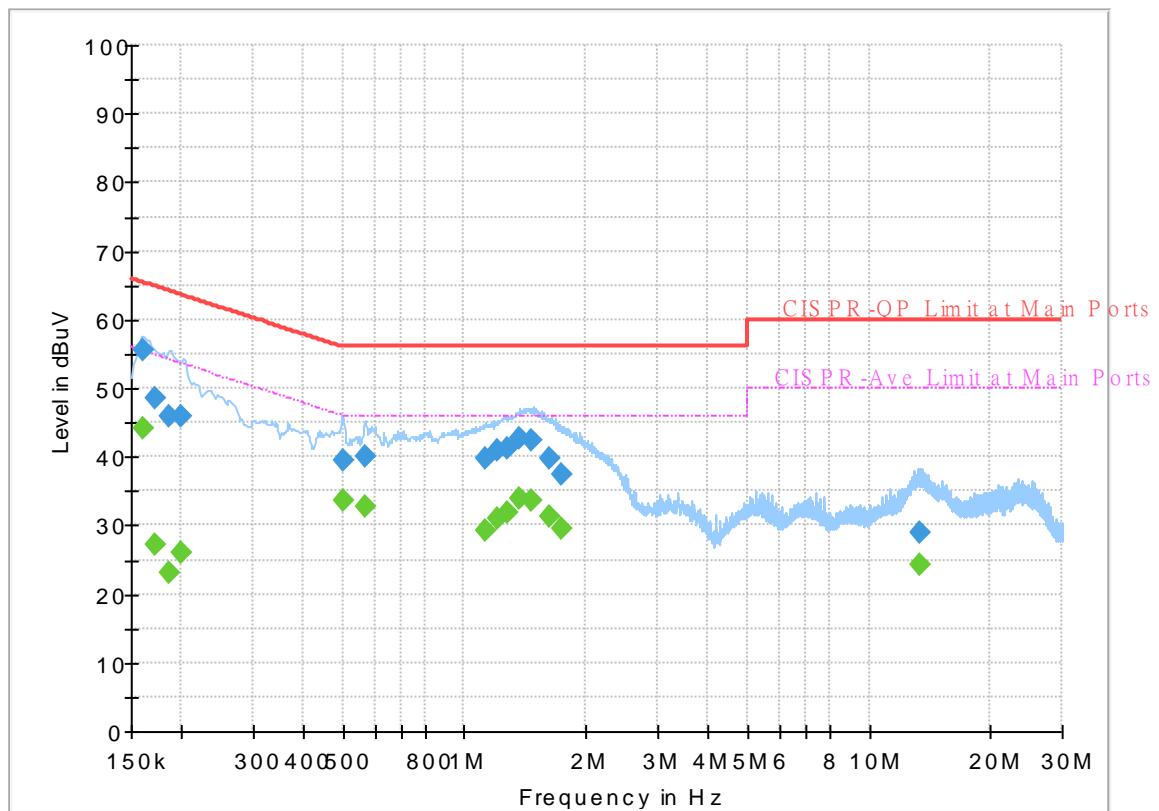
## **Appendix A. Test Results of Conducted Emission Test**

<b>Test Engineer :</b>	Tom Lee	<b>Temperature :</b>	23~25°C
		<b>Relative Humidity :</b>	42~50%

## EUT Information

Report NO : 061001  
 Test Mode : Mode 1  
 Test Voltage : Power From System  
 Phase : Line

Full Spectrum



## Final Result

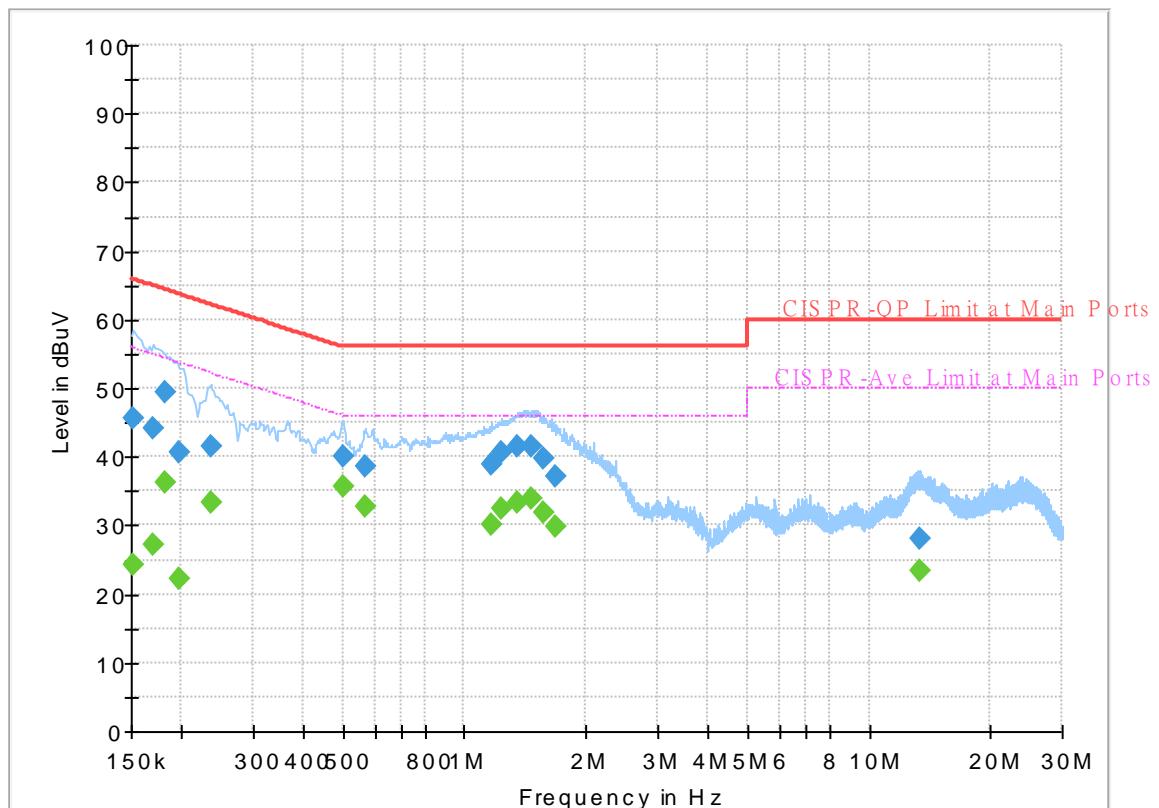
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	44.16	55.40	11.24	L1	OFF	19.5
0.161250	55.57	---	65.40	9.83	L1	OFF	19.5
0.172500	---	27.17	54.84	27.67	L1	OFF	19.5
0.172500	48.45	---	64.84	16.39	L1	OFF	19.5
0.186000	---	23.00	54.21	31.21	L1	OFF	19.5
0.186000	46.04	---	64.21	18.17	L1	OFF	19.5
0.199500	---	25.90	53.63	27.73	L1	OFF	19.5
0.199500	45.86	---	63.63	17.77	L1	OFF	19.5
0.503250	---	33.53	46.00	12.47	L1	OFF	19.5
0.503250	39.47	---	56.00	16.53	L1	OFF	19.5
0.568770	---	32.78	46.00	13.22	L1	OFF	19.5
0.568770	40.13	---	56.00	15.87	L1	OFF	19.5
1.125690	---	29.23	46.00	16.77	L1	OFF	19.5
1.125690	39.64	---	56.00	16.36	L1	OFF	19.5
1.207500	---	30.99	46.00	15.01	L1	OFF	19.6
1.207500	40.89	---	56.00	15.11	L1	OFF	19.6
1.279500	---	31.82	46.00	14.18	L1	OFF	19.6
1.279500	41.20	---	56.00	14.80	L1	OFF	19.6
1.365180	---	33.82	46.00	12.18	L1	OFF	19.6
1.365180	42.69	---	56.00	13.31	L1	OFF	19.6
1.470750	---	33.53	46.00	12.47	L1	OFF	19.6

<b>1.470750</b>	<b>42.40</b>	---	<b>56.00</b>	<b>13.60</b>	<b>L1</b>	<b>OFF</b>	<b>19.6</b>
<b>1.614750</b>	---	<b>31.26</b>	<b>46.00</b>	<b>14.74</b>	<b>L1</b>	<b>OFF</b>	<b>19.6</b>
<b>1.614750</b>	<b>39.83</b>	---	<b>56.00</b>	<b>16.17</b>	<b>L1</b>	<b>OFF</b>	<b>19.6</b>
<b>1.740750</b>	---	<b>29.48</b>	<b>46.00</b>	<b>16.52</b>	<b>L1</b>	<b>OFF</b>	<b>19.6</b>
<b>1.740750</b>	<b>37.57</b>	---	<b>56.00</b>	<b>18.43</b>	<b>L1</b>	<b>OFF</b>	<b>19.6</b>
<b>13.410960</b>	---	<b>24.17</b>	<b>50.00</b>	<b>25.83</b>	<b>L1</b>	<b>OFF</b>	<b>19.8</b>
<b>13.410960</b>	<b>28.84</b>	---	<b>60.00</b>	<b>31.16</b>	<b>L1</b>	<b>OFF</b>	<b>19.8</b>

## EUT Information

Report NO : 061001  
 Test Mode : Mode 1  
 Test Voltage : Power From System  
 Phase : Neutral

Full Spectrum



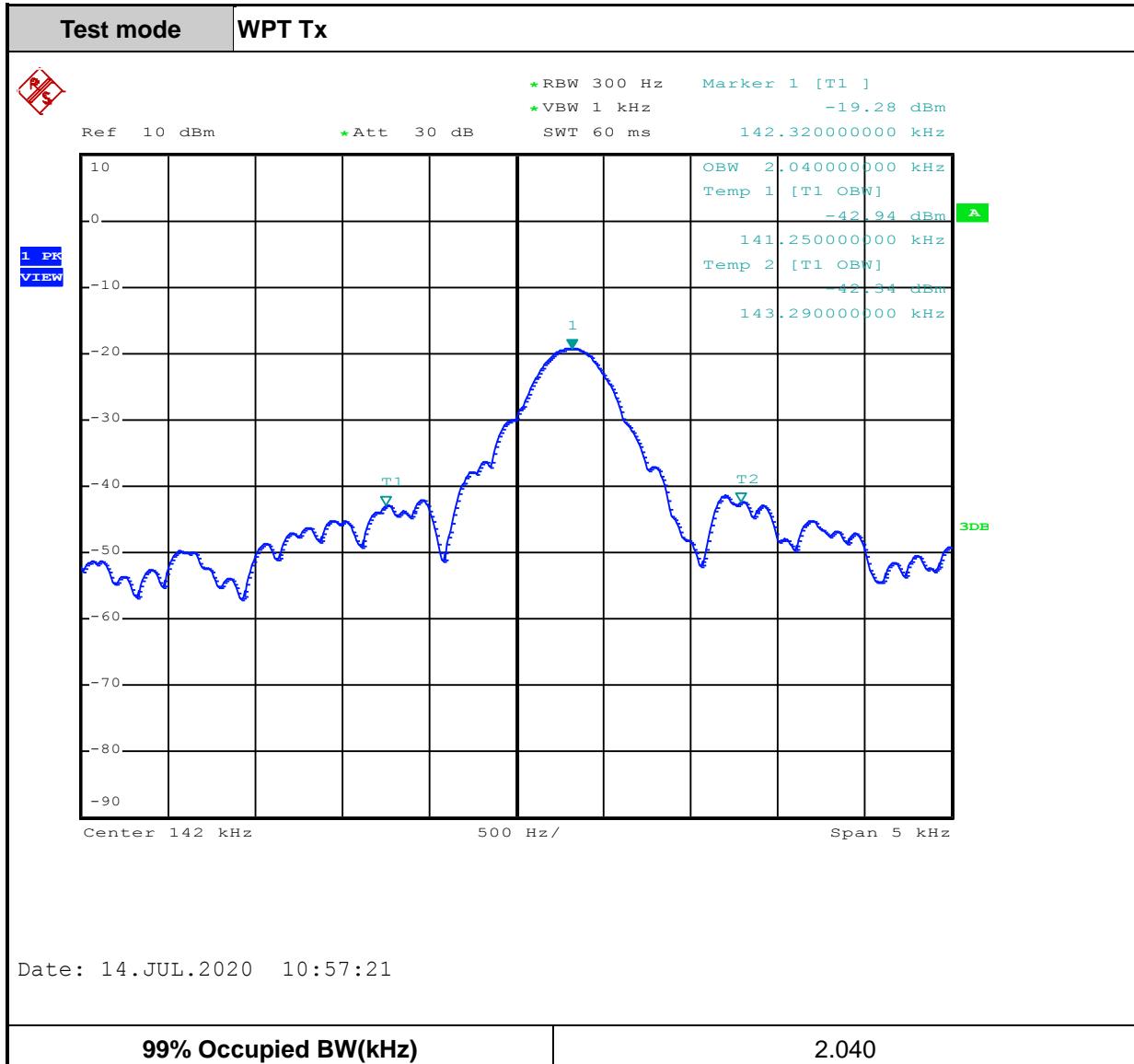
## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	24.36	55.88	31.52	N	OFF	19.5
0.152250	45.52	---	65.88	20.36	N	OFF	19.5
0.169530	---	27.31	54.98	27.67	N	OFF	19.5
0.169530	44.12	---	64.98	20.86	N	OFF	19.5
0.182220	---	36.30	54.38	18.08	N	OFF	19.5
0.182220	49.51	---	64.38	14.87	N	OFF	19.5
0.197250	---	22.11	53.73	31.62	N	OFF	19.5
0.197250	40.52	---	63.73	23.21	N	OFF	19.5
0.237020	---	33.36	52.20	18.84	N	OFF	19.5
0.237020	41.61	---	62.20	20.59	N	OFF	19.5
0.502980	---	35.76	46.00	10.24	N	OFF	19.5
0.502980	40.05	---	56.00	15.95	N	OFF	19.5
0.569670	---	32.73	46.00	13.27	N	OFF	19.5
0.569670	38.64	---	56.00	17.36	N	OFF	19.5
1.167000	---	30.14	46.00	15.86	N	OFF	19.6
1.167000	39.00	---	56.00	17.00	N	OFF	19.6
1.234500	---	32.37	46.00	13.63	N	OFF	19.6
1.234500	40.65	---	56.00	15.35	N	OFF	19.6
1.356000	---	33.36	46.00	12.64	N	OFF	19.6
1.356000	41.61	---	56.00	14.39	N	OFF	19.6
1.461750	---	33.98	46.00	12.02	N	OFF	19.6

<b>1.461750</b>	<b>41.60</b>	---	<b>56.00</b>	<b>14.40</b>	<b>N</b>	<b>OFF</b>	<b>19.6</b>
<b>1.572000</b>	---	<b>31.97</b>	<b>46.00</b>	<b>14.03</b>	<b>N</b>	<b>OFF</b>	<b>19.6</b>
<b>1.572000</b>	<b>39.82</b>	---	<b>56.00</b>	<b>16.18</b>	<b>N</b>	<b>OFF</b>	<b>19.6</b>
<b>1.686840</b>	---	<b>29.83</b>	<b>46.00</b>	<b>16.17</b>	<b>N</b>	<b>OFF</b>	<b>19.6</b>
<b>1.686840</b>	<b>37.25</b>	---	<b>56.00</b>	<b>18.75</b>	<b>N</b>	<b>OFF</b>	<b>19.6</b>
<b>13.346250</b>	---	<b>23.28</b>	<b>50.00</b>	<b>26.72</b>	<b>N</b>	<b>OFF</b>	<b>19.9</b>
<b>13.346250</b>	<b>28.02</b>	---	<b>60.00</b>	<b>31.98</b>	<b>N</b>	<b>OFF</b>	<b>19.9</b>

## Appendix B. Test Results of Conducted Test Items

## B1. Test Result of 99% OBW Spectrum Bandwidth

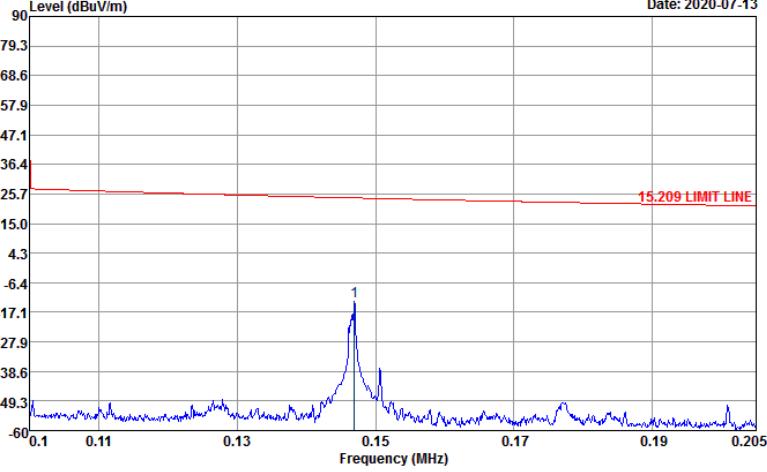
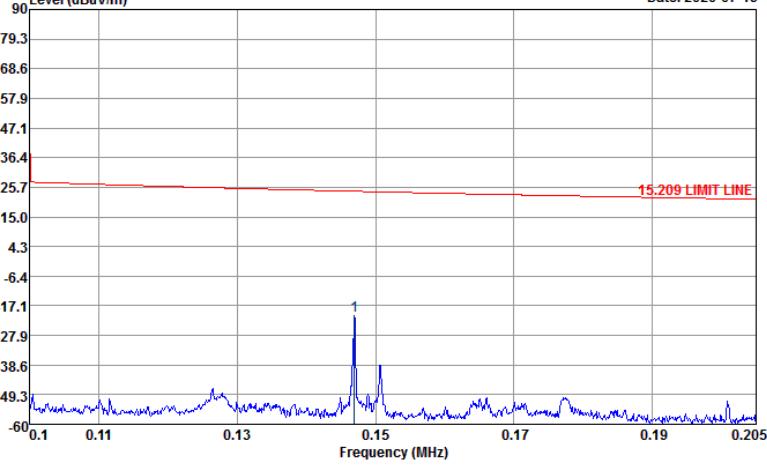


**Remark:** Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



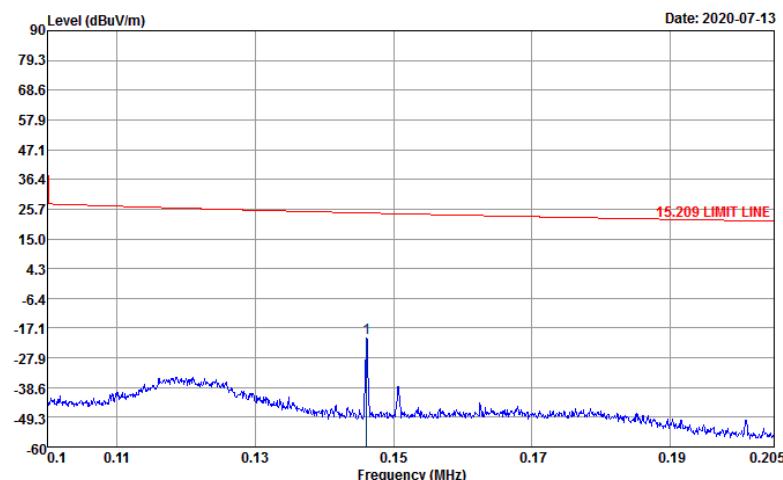
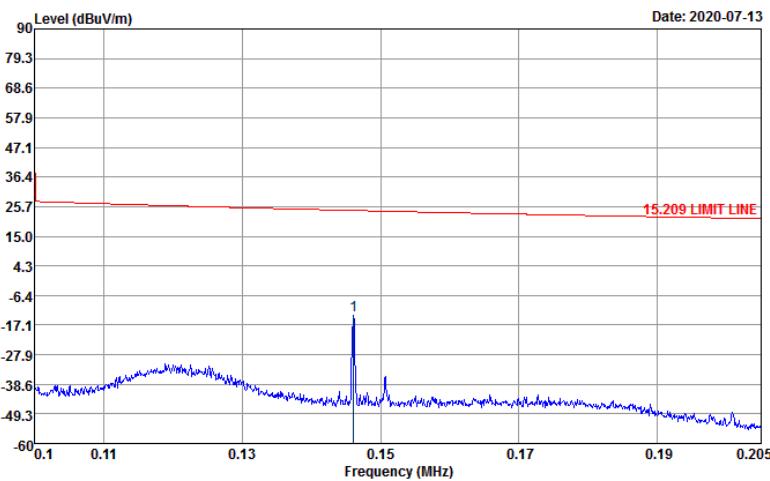
## Appendix C. Test Results of Radiated Test Items

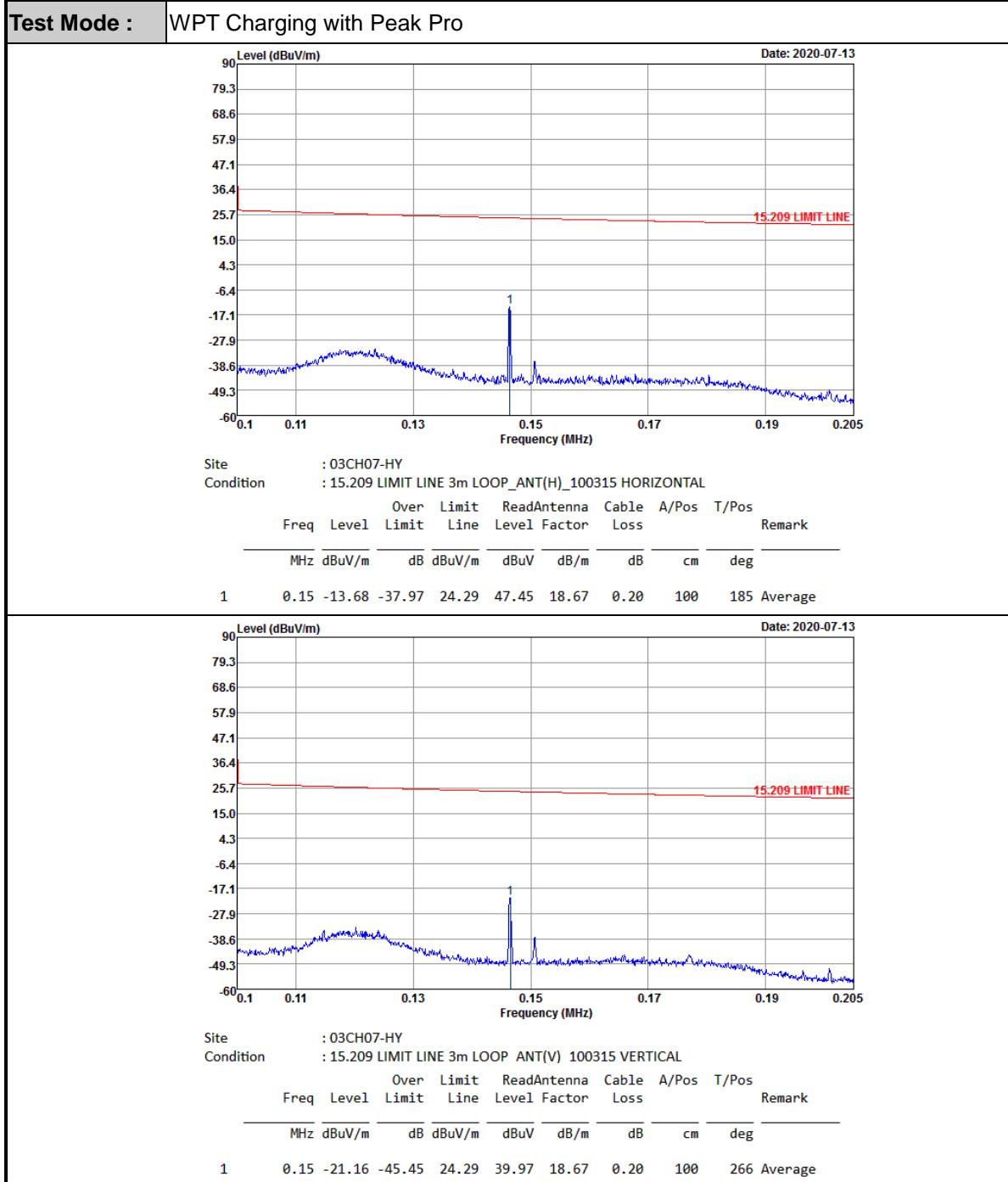
### C1. Test Result of Field Strength of Fundamental Emissions

Test Mode :		WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Notebook)																																				
		 Date: 2020-07-13																																				
		<p>Site : 03CH07-HY Condition : 15.209 LIMIT LINE 3m LOOP_ANT(H)_100315 HORIZONTAL</p>																																				
		<table><thead><tr><th>Freq</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>0.15</td><td>-13.25</td><td>-37.51</td><td>24.26</td><td>47.88</td><td>18.67</td><td>0.20</td><td>100</td><td>143</td><td>Average</td></tr></tbody></table>									Freq	Over	Limit	ReadAntenna	Cable	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	0.15	-13.25	-37.51	24.26	47.88	18.67	0.20	100	143	Average
Freq	Over	Limit	ReadAntenna	Cable	A/Pos	T/Pos	Remark																															
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																														
1	0.15	-13.25	-37.51	24.26	47.88	18.67	0.20	100	143	Average																												
		 Date: 2020-07-13																																				
		<p>Site : 03CH07-HY Condition : 15.209 LIMIT LINE 3m LOOP_ANT(V)_100315 VERTICAL</p>																																				
		<table><thead><tr><th>Freq</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>0.15</td><td>-20.52</td><td>-44.78</td><td>24.26</td><td>40.61</td><td>18.67</td><td>0.20</td><td>100</td><td>248</td><td>Average</td></tr></tbody></table>									Freq	Over	Limit	ReadAntenna	Cable	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	0.15	-20.52	-44.78	24.26	40.61	18.67	0.20	100	248	Average
Freq	Over	Limit	ReadAntenna	Cable	A/Pos	T/Pos	Remark																															
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																														
1	0.15	-20.52	-44.78	24.26	40.61	18.67	0.20	100	248	Average																												



**Test Mode :** WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Adapter)

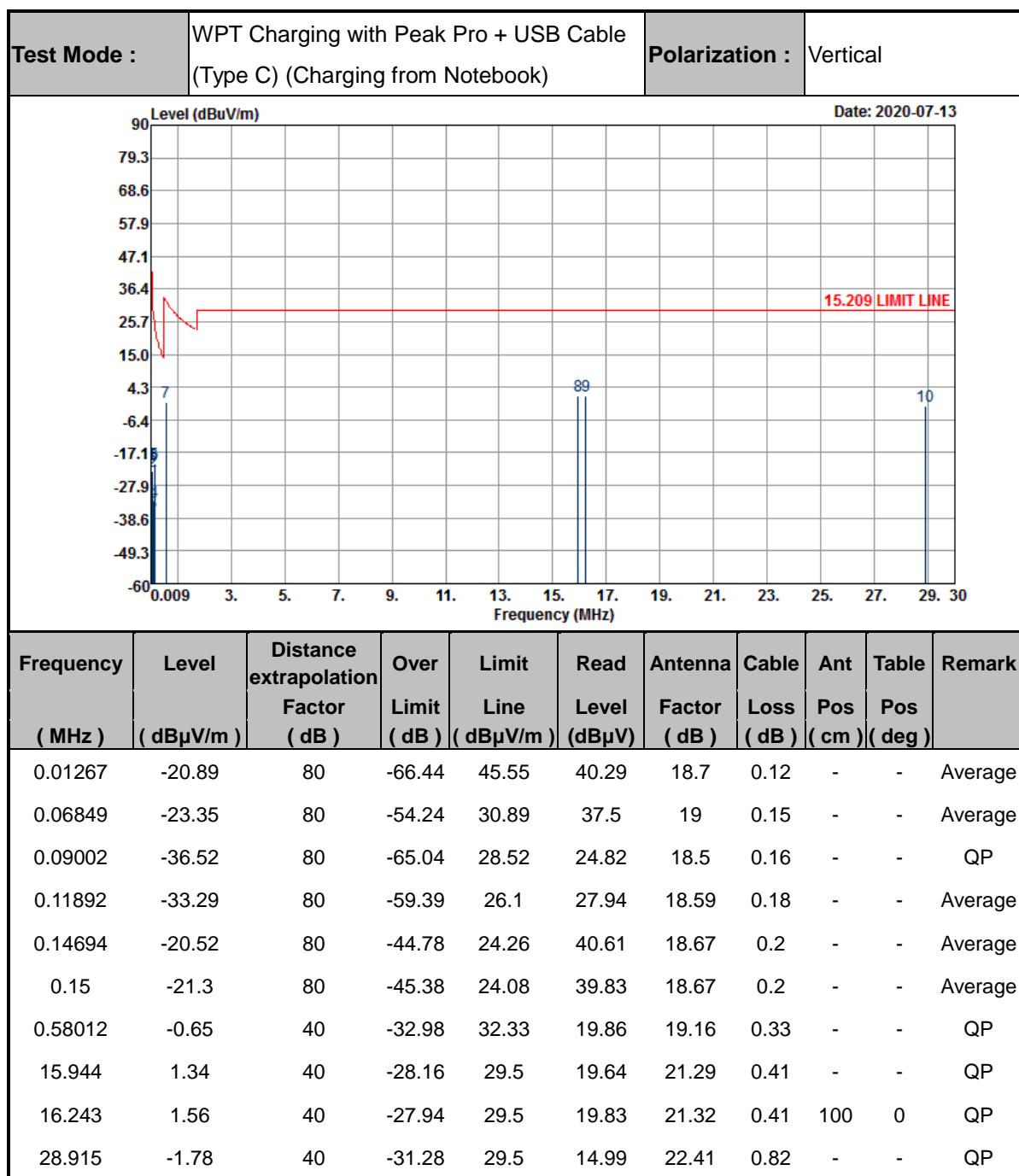




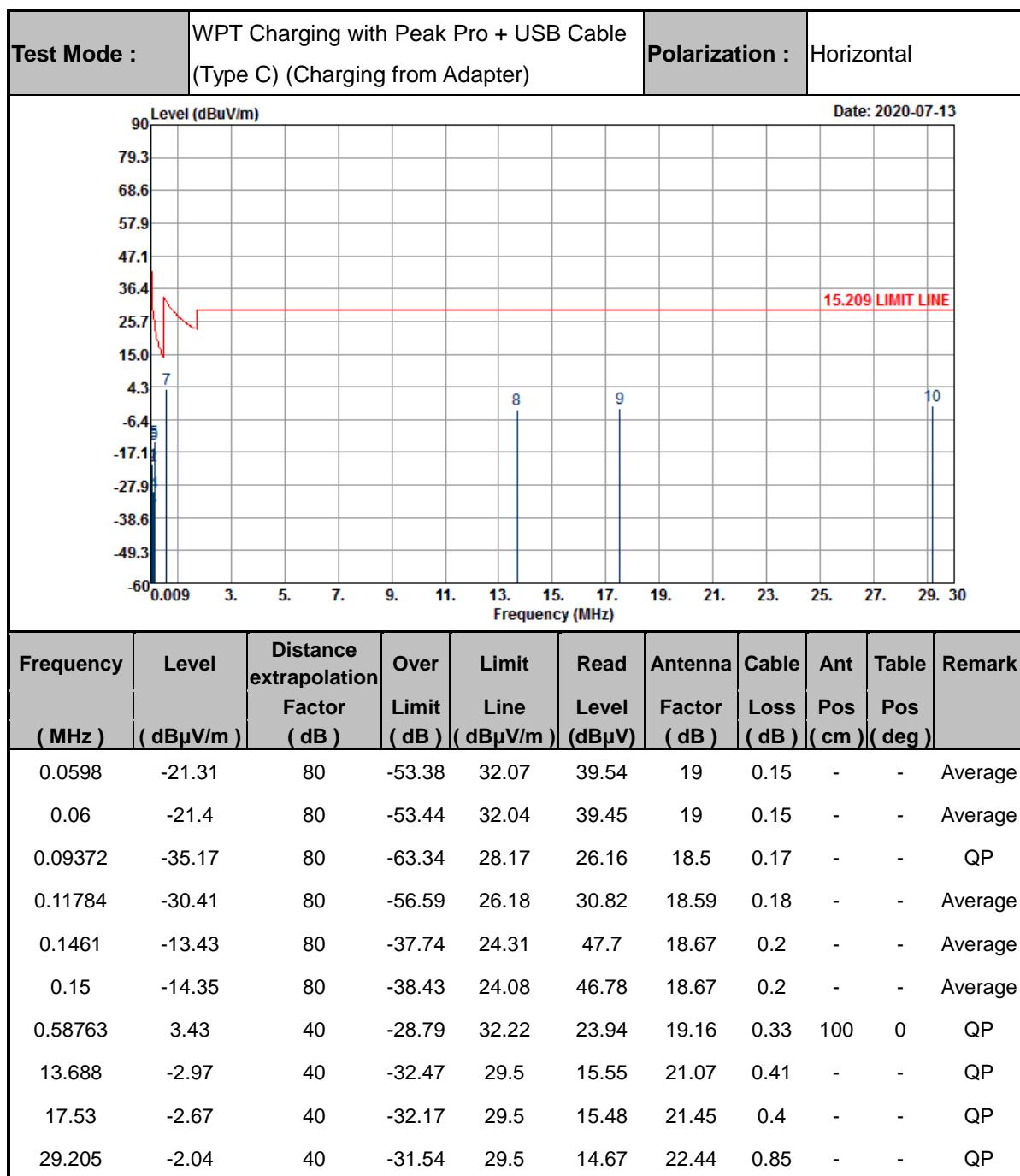


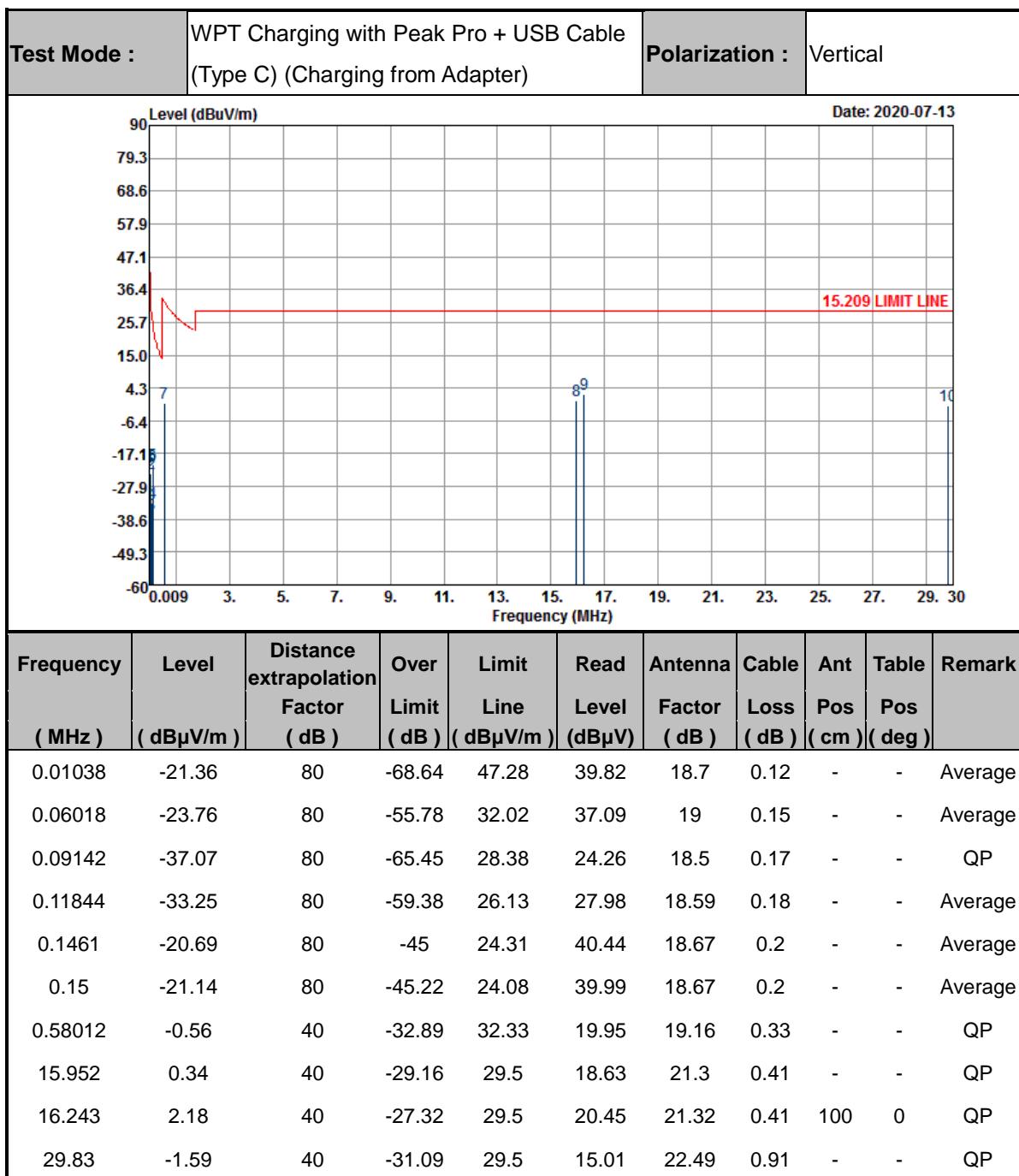
## C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Notebook)			Polarization :	Horizontal											
Level (dB $\mu$ V/m)							Date: 2020-07-13									
90	79.3	68.6	57.9	47.1	36.4	25.7	15.209 LIMIT LINE									
47.1	36.4	25.7	15.0	7	8	9	10									
36.4	25.7	15.0	7	8	9	10										
25.7	15.0	7	8	9	10											
15.0	7	8	9	10												
7	8	9	10													
8	9	10														
9	10															
10																
0.009	3.0	5.0	7.0	9.0	11.0	13.0	15.0									
13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0									
25.0	27.0	29.0	30.0													
Frequency (MHz)	0.009	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	29.0	30.0
Frequency (MHz)	Level (dB $\mu$ V/m)	Distance extrapolation Factor (dB)	Over Limit	Limit Line (dB $\mu$ V/m)	Read Level (dB $\mu$ V)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark						
0.01058	-20.74	80	-67.85	47.11	40.44	18.7	0.12	-	-	Average						
0.06024	-20.8	80	-52.81	32.01	40.05	19	0.15	-	-	Average						
0.09008	-33.99	80	-62.5	28.51	27.35	18.5	0.16	-	-	QP						
0.1194	-29.73	80	-55.79	26.06	31.5	18.59	0.18	-	-	Average						
0.14694	-13.25	80	-37.51	24.26	47.88	18.67	0.2	-	-	Average						
0.15	-14.19	80	-38.27	24.08	46.94	18.67	0.2	-	-	Average						
0.58012	3.27	40	-29.06	32.33	23.78	19.16	0.33	100	0	QP						
14.728	-2.86	40	-32.36	29.5	15.55	21.17	0.42	-	-	QP						
22.867	-1.51	40	-31.01	29.5	16.15	21.93	0.41	-	-	QP						
29.66	-1.72	40	-31.22	29.5	14.91	22.47	0.9	-	-	QP						

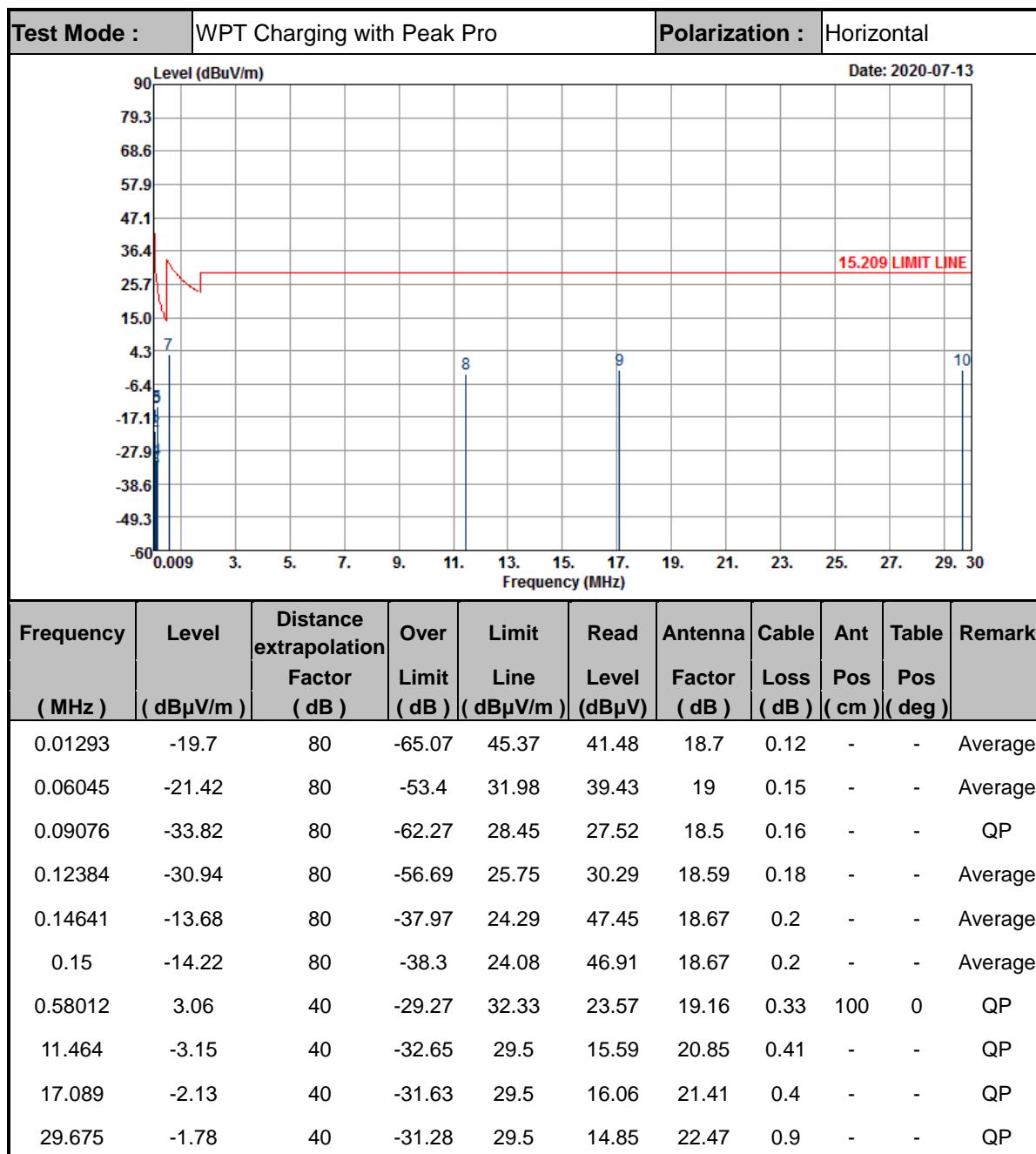
**Note:**

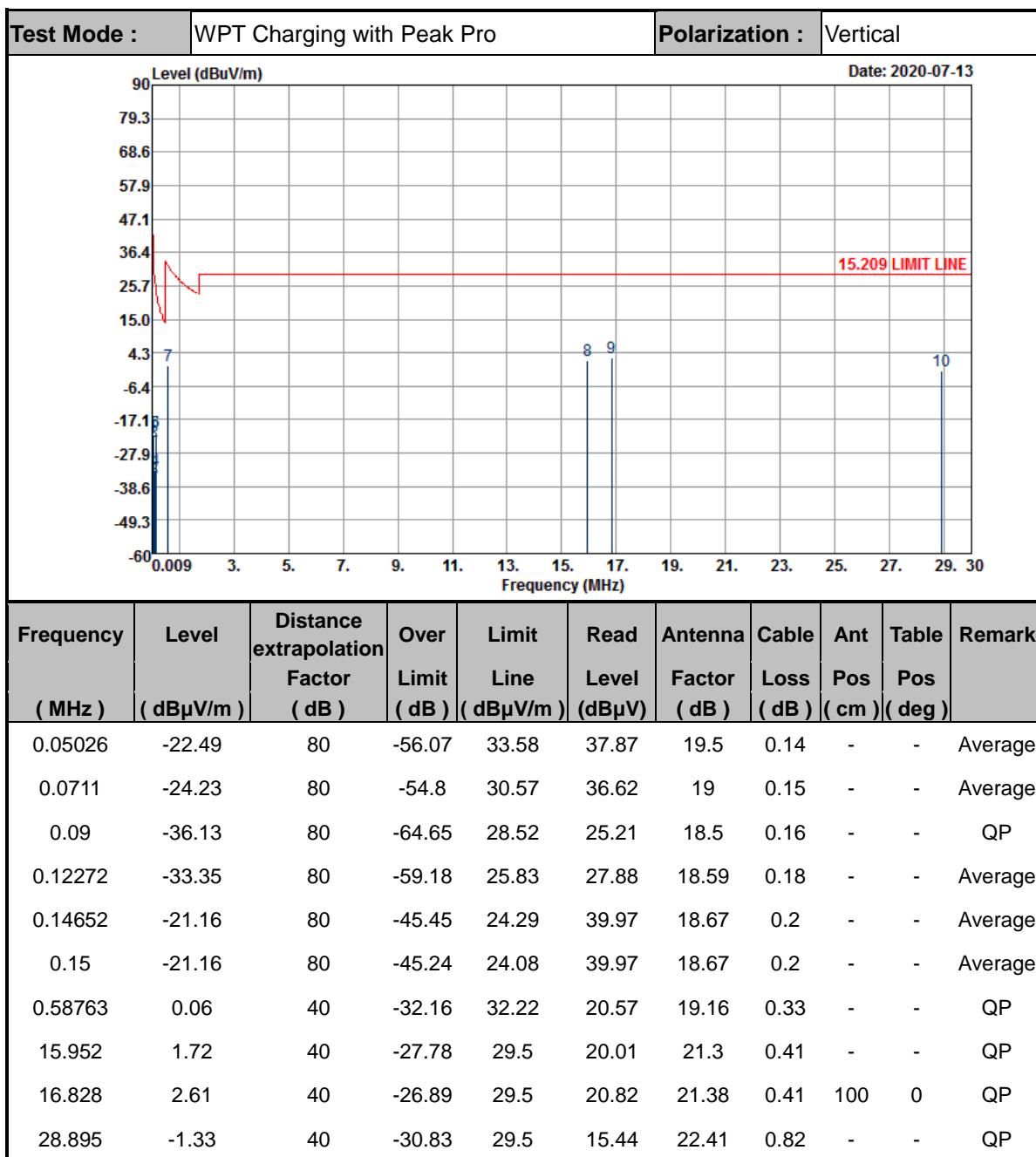
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);
3. Limit line = specific limits (dB $\mu$ V) + distance extrapolation factor.



**Note:**

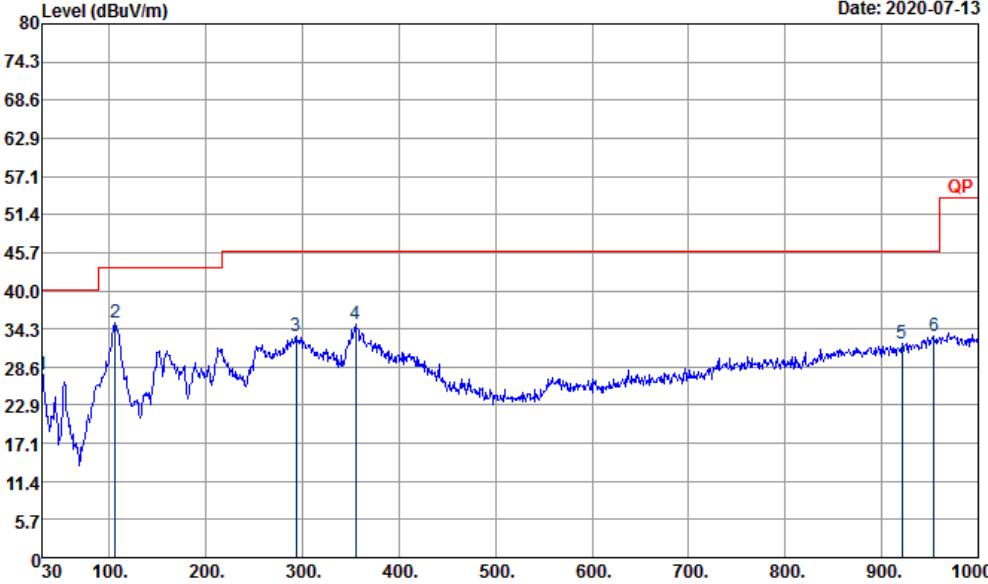
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);
3. Limit line = specific limits (dB $\mu$ V) + distance extrapolation factor.

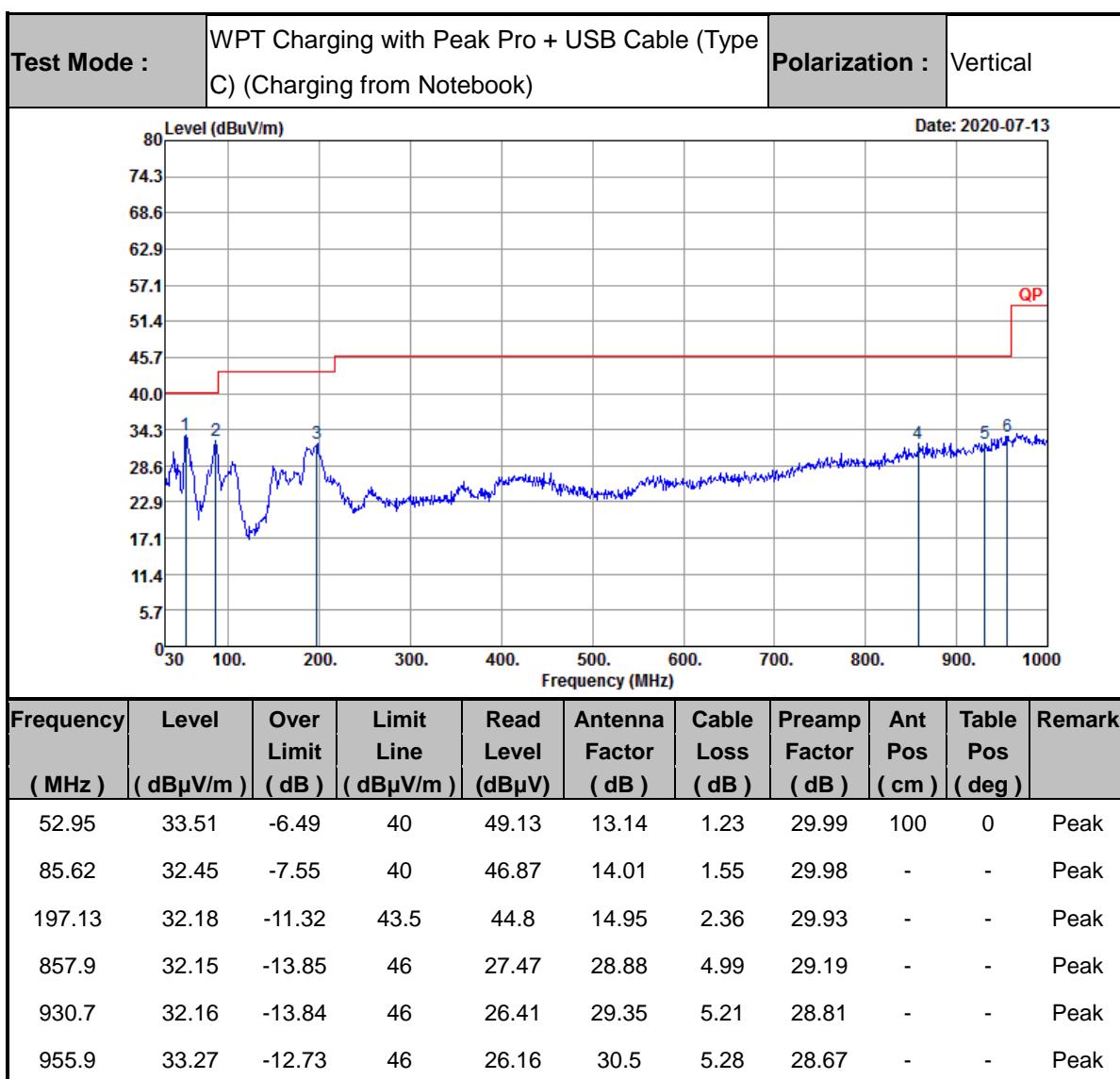


**Note:**

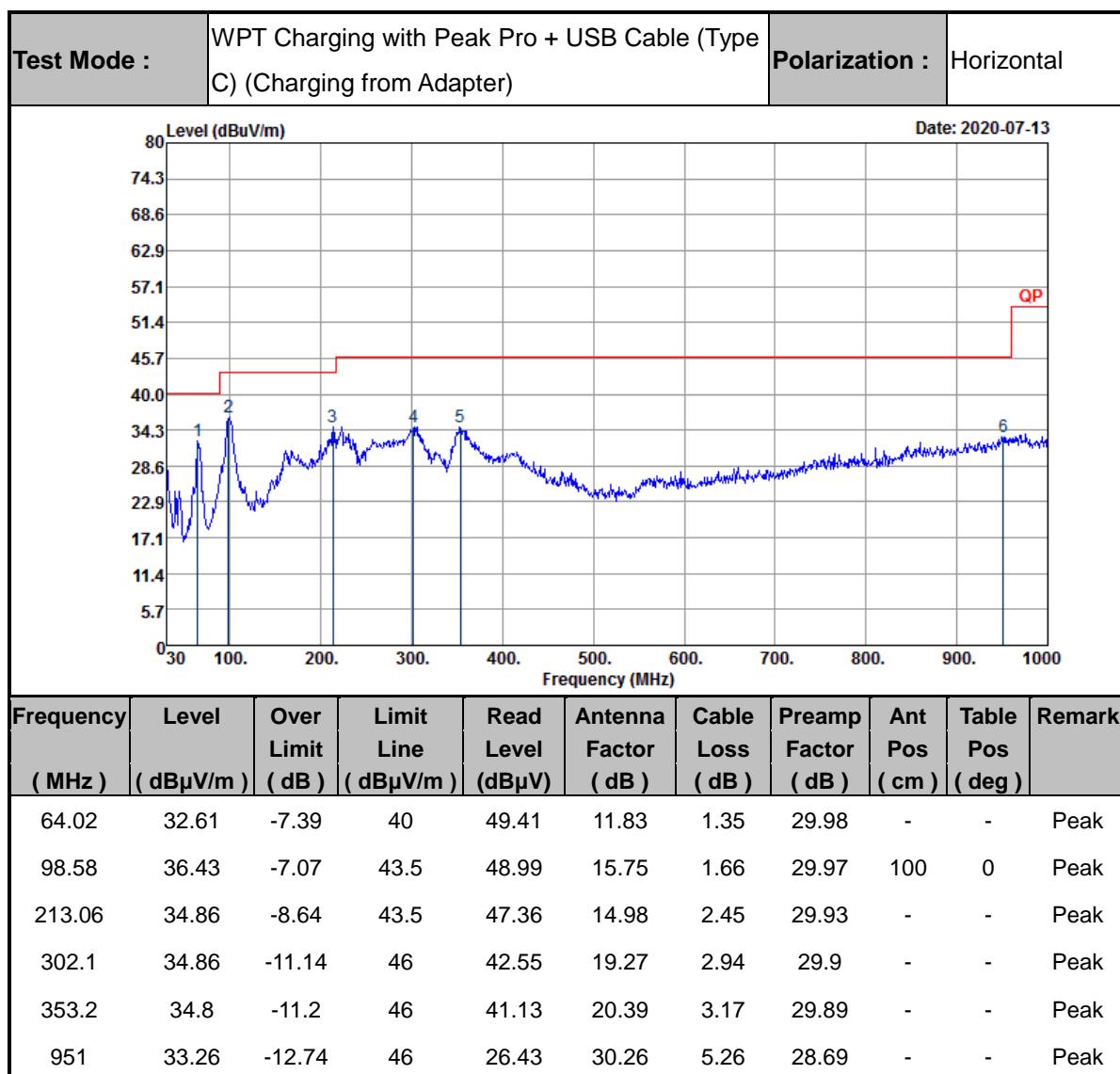
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);
3. Limit line = specific limits (dB $\mu$ V) + distance extrapolation factor.

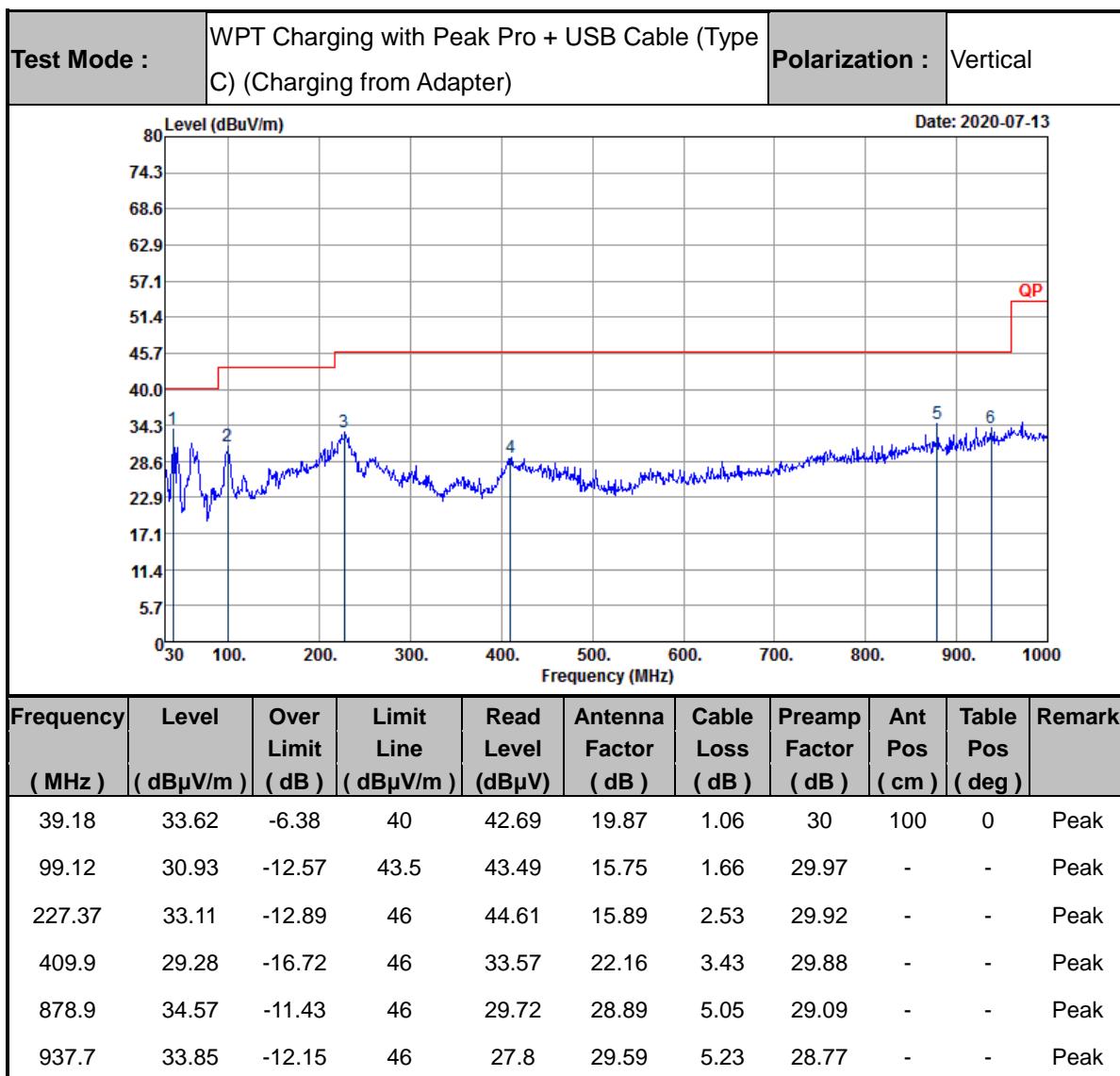
## C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode :	WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Notebook)		Polarization :	Horizontal						
				Date: 2020-07-13						
										
Frequency (MHz)	Level (dB $\mu$ V/m)	Over Limit (dB)	Limit Line (dB $\mu$ V/m)	Read Level (dB $\mu$ V)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30.27	27.37	-12.63	40	32.13	24.32	0.93	30.01	-	-	Peak
105.6	35.12	-8.38	43.5	46.8	16.57	1.72	29.97	100	0	Peak
293.25	33.27	-12.73	46	41.13	19.15	2.89	29.9	-	-	Peak
355.3	34.92	-11.08	46	41.17	20.46	3.18	29.89	-	-	Peak
920.9	32.09	-13.91	46	26.67	29.11	5.18	28.87	-	-	Peak
954.5	33.28	-12.72	46	26.2	30.48	5.27	28.67	-	-	Peak

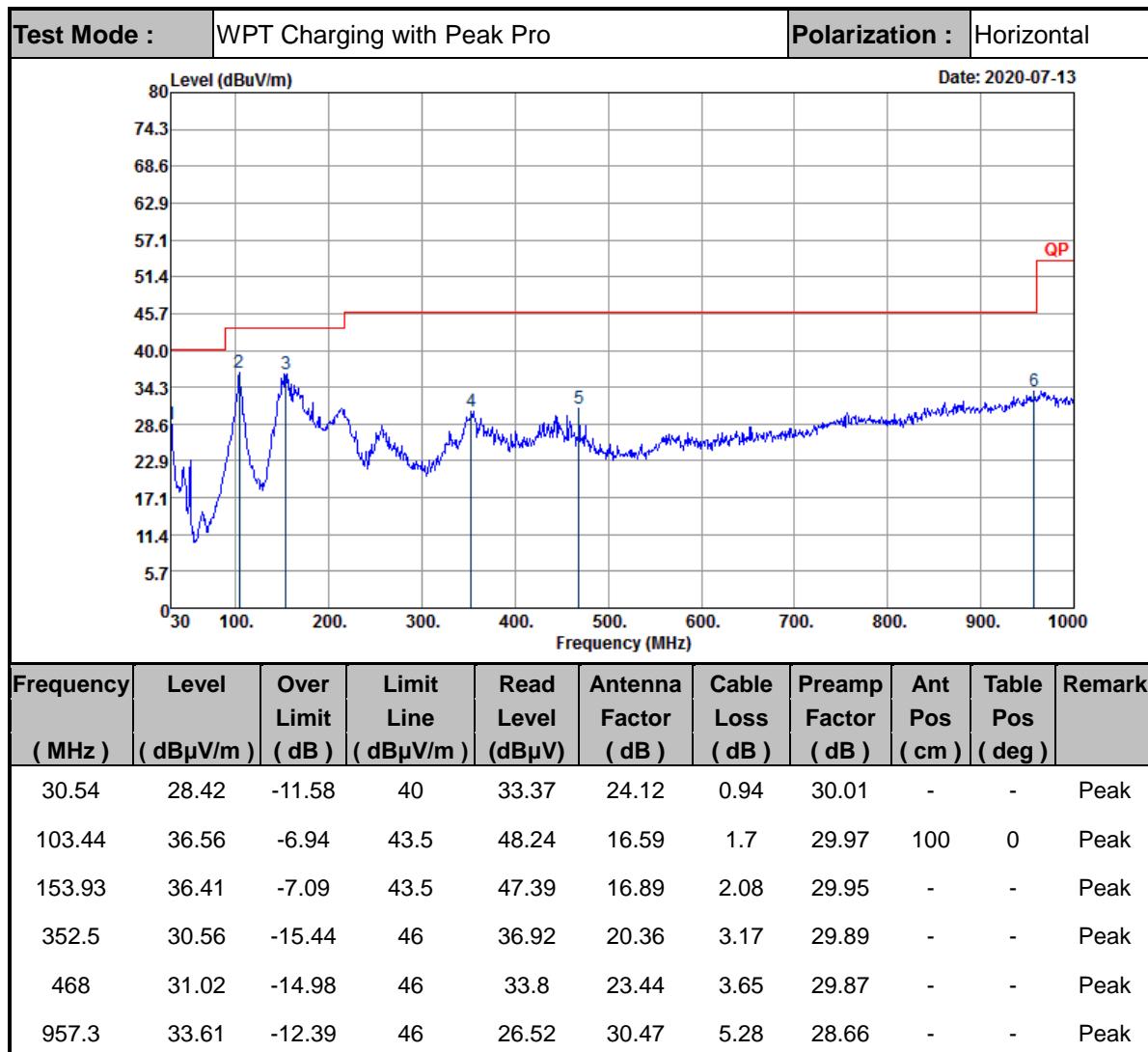
**Note:**

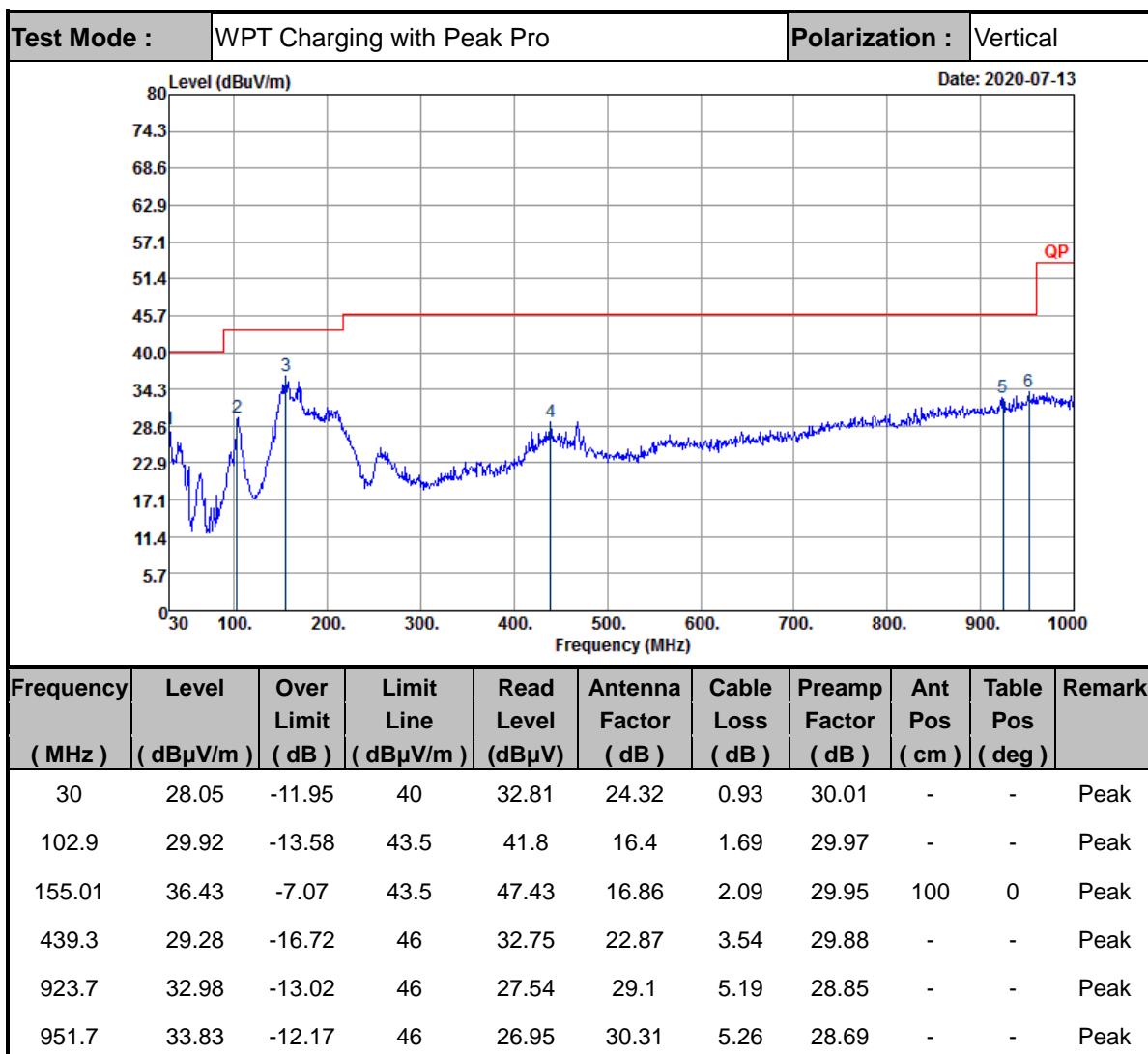
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.



**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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.



**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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.