



FCC RADIO TEST REPORT

FCC ID	: A4RG8V0U
Equipment	: Phone
Model Name	: G8V0U, GF5KQ
Applicant	: Google LLC
	1600 Amphitheatre Parkway,
	Mountain View, California, 94043 USA
Standard	: FCC Part 15 Subpart C §15.209

The product was received on Jun. 25, 2021 and testing was started from Jul. 01, 2021 and completed on Jul. 09 2021. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Lunis Win

Approved by: Louis Wu Sporton International Inc. Wensan Laboratory No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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B1. Test Result

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History of this test report

Report No.	Version	Description	Issued Date
FR121931-04H	01	Initial issue of report	Aug. 13, 2021
FR121931-04H	02	Revise Support Unit used in test configuration and system	Sep. 17, 2021



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 5.43 dB at 0.177MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Reporting only	-
3.2	2.1049 99% OBW Spectrum Bandwidth		Reporting only	-
	15.000	Field Strength of Fundamental Emissions 15.209 Radiated Spurious Emissions	Pass	Max level 9.74 dBµV/m at 0.138 MHz
3.3	15.209		Radiated Spurious Emissions	Pass
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: William Chen

Report Producer: Tina Chuang



1. General Description

1.1 **Product Feature of Equipment Under Test**

Product Feature			
Equipment	Phone		
Model Name	G8V0U, GF5KQ		
FCC ID	A4RG8V0U		
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS/ WPC/WPT/UWB WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE		

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

EUT Information List			
S/N Performed Test Item			
16061FDEE0001Q	RF conducted measurement		
16011FDEE0007W	Radiated Spurious Emissions		
16061FDEE00001	Conducted Emission		

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard			
Transmitter Frequency Range110kHz ~ 148.5kHz			
99%OBW	0.660 kHz		
Antenna Type	Single Coil 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

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Cite Lesstian	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
Test Site Location	TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
Test Site No.	CO05-HY (TAF Code: 1190)	
Test Engineer	Tom Lee	
Temperature	23~26 ℃	
Relative Humidity	40~50%	
Demerk	The AC Conducted Emission test item subcontracted to Sporton	
Remark	International Inc. EMC & Wireless Communications Laboratory.	

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

Test Site	Sporton International Inc. Wensan I	Sporton International Inc. Wensan Laboratory			
Test Site Location	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				
Test Site No.	Sporton Site No.				
Test one No.	TH05-HY	03CH11-HY			
Test Engineer	Oscar Chi	Harvey Guo, Fu Chen, and Troye Hsieh			
Temperature	22~24 ℃	21.4~22.3℃			
Relative Humidity	53~55% 67.1~67.2%				

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

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: 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

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			

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find (Y plane for battery 20%; X plane for battery 50%; X plane for battery 100%) as worst plane.

Test Cases				
	Mode 1:	WPC Charging with Wireless Charger + USB Cable 1 (Charging from		
AC		Adapter 2); Battery 20%		
	Mode 2:	WPT Charging with Another Phone + USB Cable 1 (Charging from		
Conducted		Adapter 2); Battery 50%		
Emission	Mode 3:	WPT Charging with Another Phone + USB Cable 1 (Charging from		
		Adapter 2); Battery 100%		
Remark:				

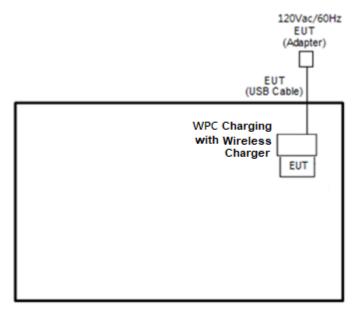
1. The worst case of conducted emission is mode 1; only the test data of it was reported.

2. For Radiated Test Cases, the tests were performed with Adapter 2 and USB Cable 1.

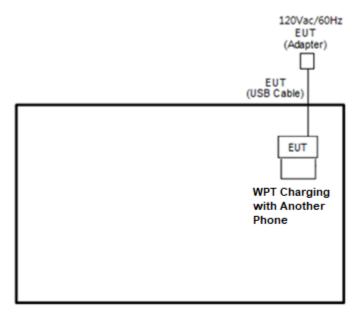


2.2 Connection Diagram of Test System

<AC Conducted Emission with WPC Mode>

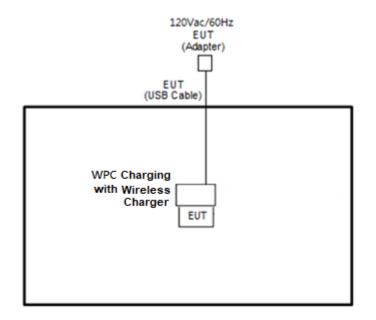


<AC Conducted Emission with WPT Mode>

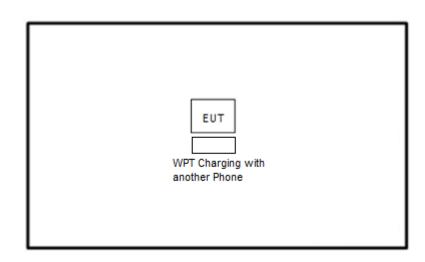




<WPC Mode>



<WPT Mode>



2.3 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Wireless charger	Google	#7*	N/A	N/A	N/A
2.	Smart Phone	Google	#4*	N/A	N/A	N/A

* Stands for Sporton internal control code

2.4 EUT Operation Test Setup

The Wireless Charging with Wireless Charging Pad or another phone 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	Conducted Limit (dBµV)					
(MHz)	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

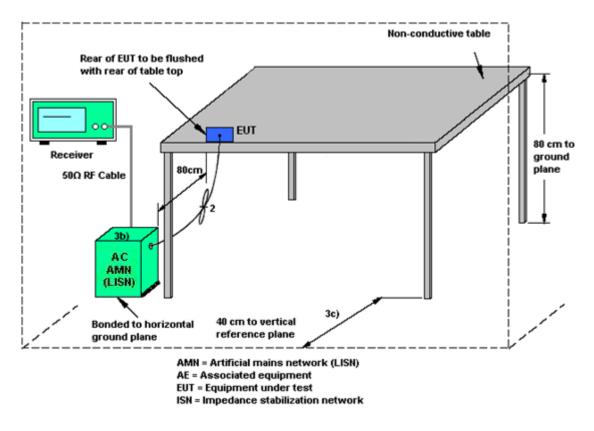
See list of measuring equipment of this test report.

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.
- 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 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



Spectrum Analyzer

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	Field Strength	Measurement Distance
(MHz)	(µV/m)	(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.



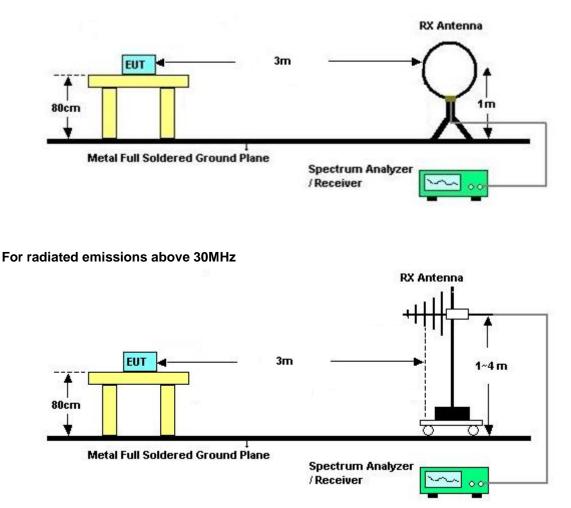
3.3.4 Test Procedures

- 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



3.3.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: 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.

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	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Jul. 01, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Hz~30GHz Sep. 03, 2020 Jul. 01, 2021 Sep. 02, 2021		Sep. 02, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 02, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jul. 02, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jul. 02, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jul. 02, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 02, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jul. 02, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jul. 02, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jul. 09, 2021	N/A	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Jul. 09, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Jul. 09, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jul. 09, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 09, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jul. 09, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jul. 09, 2021	N/A	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Jul. 09, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	20MHz~8.4GHz	Dec. 11, 2020	Jul. 09, 2021	Dec. 10, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000C 7/40SS	SN2	20M High Pass	Sep. 14, 2020	Jul. 09, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Jul. 09, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Jul. 09, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Jul. 09, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Jul. 09, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP200880	QA-3-031	Oct. 22, 2020	Jul. 09, 2021	Oct. 21, 2021	Radiation (03CH11-HY)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.30 dB
of 95% (U = 2Uc(y))	2.30 UB

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

Measuring Uncertainty for a Level of Confidence	2.68 dB
of 95% (U = 2Uc(y))	2.08 UB

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

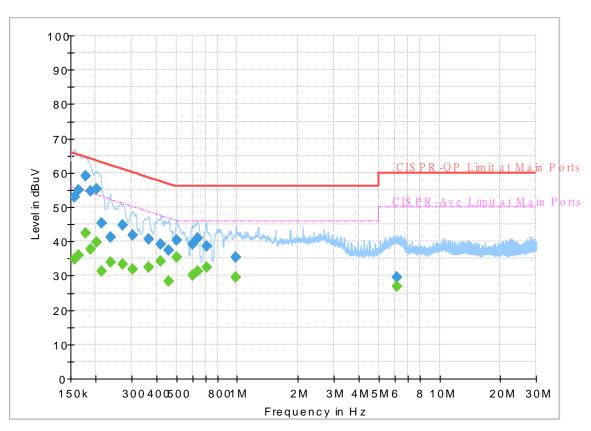
Measuring Uncertainty for a Level of Confidence	4.70 dB
of 95% (U = 2Uc(y))	4.70 08



Appendix A. Test Results of Conducted Emission Test

EUT Information

Report NO : Test Mode : Test Voltage : Phase : 121931-04 Mode 1 Power From WPC Line



FullSpectrum

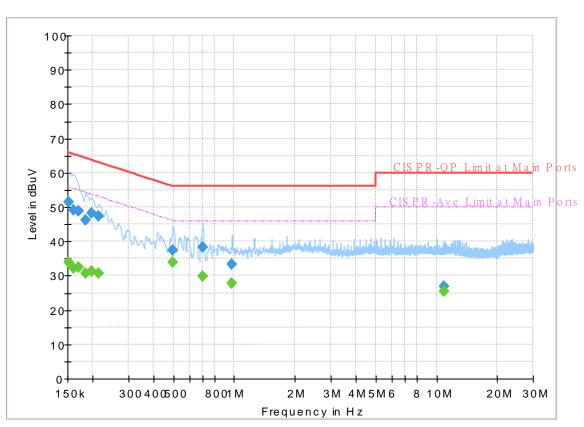
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750		34.91	55.63	20.72	L1	OFF	19.5
0.156750	52.90		65.63	12.73	L1	OFF	19.5
0.163500		35.97	55.28	19.31	L1	OFF	19.5
0.163500	55.00		65.28	10.28	L1	OFF	19.5
0.177000		42.53	54.63	12.10	L1	OFF	19.5
0.177000	59.20		64.63	5.43	L1	OFF	19.5
0.188250		37.84	54.11	16.27	L1	OFF	19.5
0.188250	54.58		64.11	9.53	L1	OFF	19.5
0.201750		39.71	53.54	13.83	L1	OFF	19.5
0.201750	55.22		63.54	8.32	L1	OFF	19.5
0.213000		31.43	53.09	21.66	L1	OFF	19.5
0.213000	45.38		63.09	17.71	L1	OFF	19.5
0.235500		34.06	52.25	18.19	L1	OFF	19.5
0.235500	41.35		62.25	20.90	L1	OFF	19.5
0.271500		33.39	51.07	17.68	L1	OFF	19.5
0.271500	44.59		61.07	16.48	L1	OFF	19.5
0.305250		31.98	50.10	18.12	L1	OFF	19.5
0.305250	41.74		60.10	18.36	L1	OFF	19.5
0.363750		32.36	48.64	16.28	L1	OFF	19.5
0.363750	40.76		58.64	17.88	L1	OFF	19.5
0.420000		34.10	47.45	13.35	L1	OFF	19.6

0.420000	39.24		57.45	18.21	L1	OFF	19.6
0.460500		28.46	46.68	18.22	L1	OFF	19.6
0.460500	37.44		56.68	19.24	L1	OFF	19.6
0.501000		35.24	46.00	10.76	L1	OFF	19.7
0.501000	40.27		56.00	15.73	L1	OFF	19.7
0.604500		30.19	46.00	15.81	L1	OFF	19.8
0.604500	39.33		56.00	16.67	L1	OFF	19.8
0.638250		31.20	46.00	14.80	L1	OFF	19.8
0.638250	40.87		56.00	15.13	L1	OFF	19.8
0.703500		32.47	46.00	13.53	L1	OFF	19.8
0.703500	38.67		56.00	17.33	L1	OFF	19.8
0.984750		29.56	46.00	16.44	L1	OFF	20.0
0.984750	35.33		56.00	20.67	L1	OFF	20.0
6.184500		26.87	50.00	23.13	L1	OFF	19.9
6.184500	29.60		60.00	30.40	L1	OFF	19.9

EUT Information

Report NO : Test Mode : Test Voltage : Phase : 121931-04 Mode 1 Power From WPC Neutral



FullSpectrum

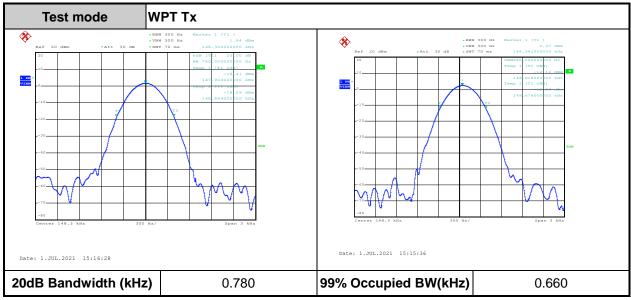
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250		34.02	55.88	21.86	N	OFF	19.5
0.152250	51.46		65.88	14.42	Ν	OFF	19.5
0.161250		32.18	55.40	23.22	Ν	OFF	19.5
0.161250	49.07		65.40	16.33	Ν	OFF	19.5
0.170250		32.32	54.95	22.63	Ν	OFF	19.5
0.170250	48.90		64.95	16.05	Ν	OFF	19.5
0.183750		30.66	54.31	23.65	Ν	OFF	19.5
0.183750	46.27		64.31	18.04	Ν	OFF	19.5
0.197250		31.14	53.73	22.59	Ν	OFF	19.5
0.197250	48.18		63.73	15.55	Ν	OFF	19.5
0.213000		30.78	53.09	22.31	Ν	OFF	19.5
0.213000	47.36		63.09	15.73	Ν	OFF	19.5
0.498750		33.80	46.02	12.22	Ν	OFF	19.7
0.498750	37.37		56.02	18.65	Ν	OFF	19.7
0.699000		29.90	46.00	16.10	Ν	OFF	19.9
0.699000	38.40		56.00	17.60	Ν	OFF	19.9
0.975750		27.63	46.00	18.37	Ν	OFF	20.1
0.975750	33.35		56.00	22.65	Ν	OFF	20.1
10.869000		25.58	50.00	24.42	Ν	OFF	20.1
10.869000	27.04		60.00	32.96	Ν	OFF	20.1



Appendix B. Test Results of Conducted Test Items

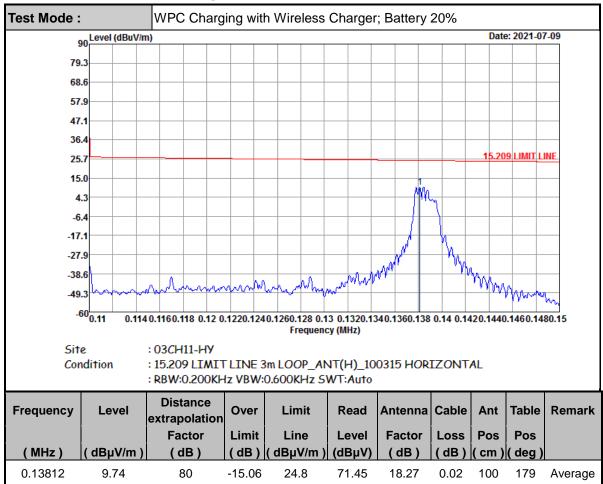
B1. Test Result



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.

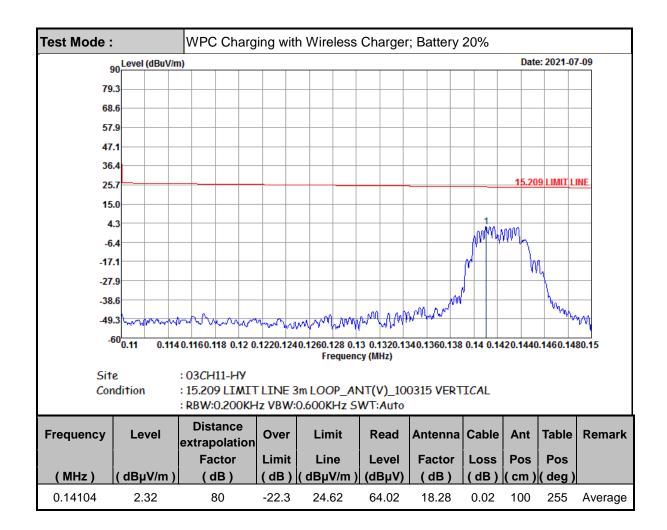


Appendix C. Test Results of Radiated Test Items

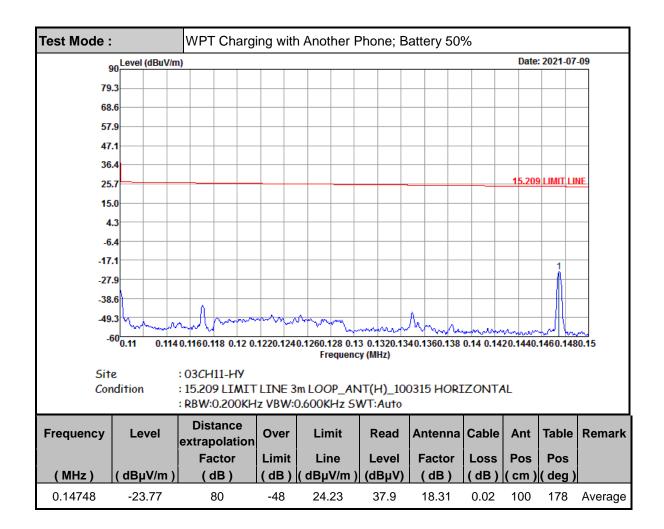


C1. Test Result of Field Strength of Fundamental Emissions

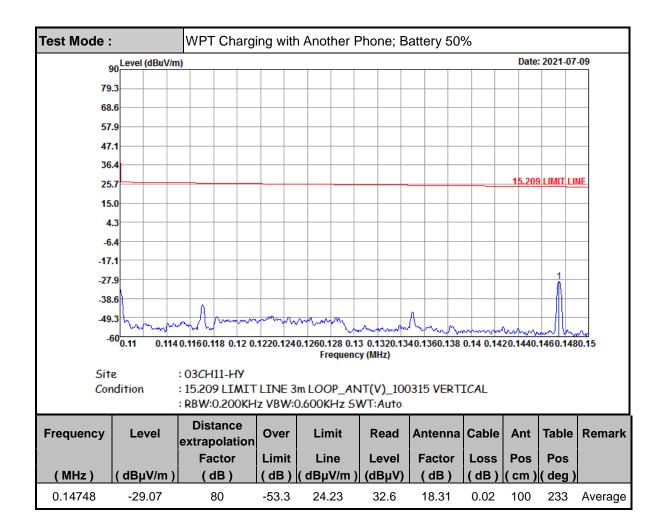




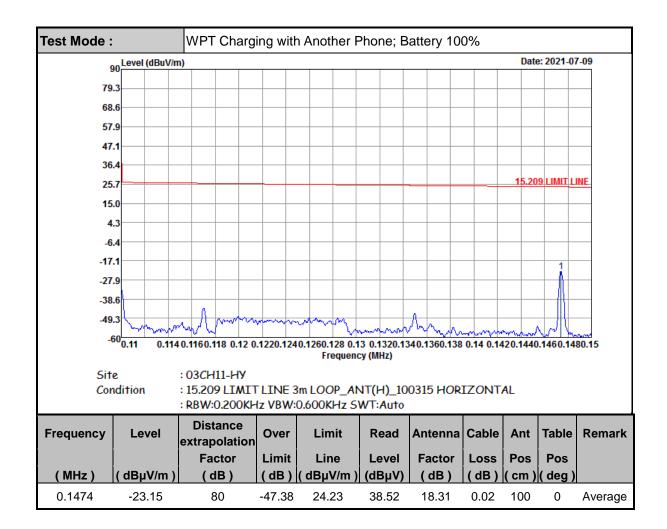




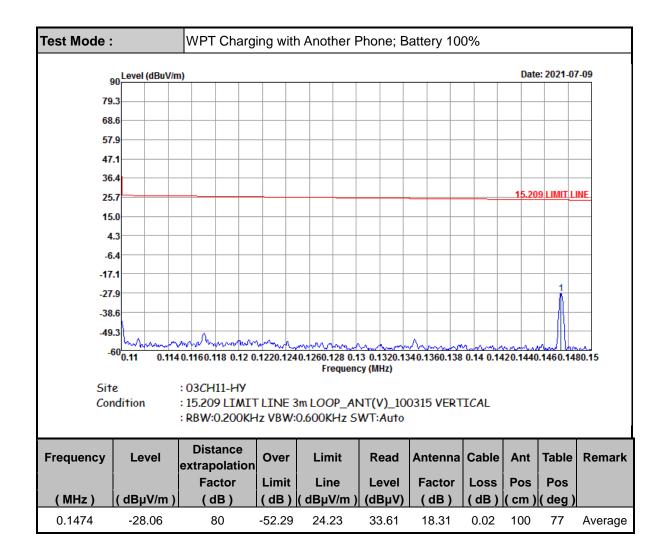










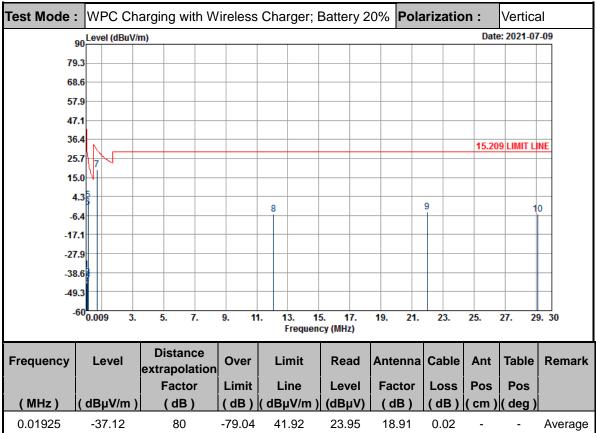




Test Mode	: WPC C	Charging with	Wireles	ss Charger	; Battery	20% P	olarizat	ion :	Hori	zontal
	90 Level (dBuV/	m)						Date	e: 2021-07	-09
	9.3									
	B.6							_		_
57	7.9									_
47	7.1									_
30	6.4							15.20	9 LIMIT LI	NE
	5.7					_				
	5.05 ¹ 4.3									
	6.4				8	9				10
	7.1									+
-27	7.9									+
	8.6									+
	9.3									
-	60 <mark>0.009 3.</mark>	5. 7.	9. 1		5. 17. cy (MHz)	19. 21.	23.	25.	27. 29	9. 30
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	1	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)				Level					
		(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.0192	-27.51	80	-69.45	(dBμV/m) 41.94	(dBµV) 33.56	(dB) 18.91	(dB) 0.02			
0.0192 0.06915				(dBµV/m)	(dBµV)	(dB)	(dB)			
	-27.51	80	-69.45	<u>(dBμV/m)</u> 41.94 30.81	(dBµV) 33.56	(dB) 18.91	(dB) 0.02			Average Average QP
0.06915	-27.51 -31.27	80 80	-69.45 -62.08	<u>(dBμV/m)</u> 41.94 30.81	(dBµV) 33.56 29.81	(dB) 18.91 18.9	(dB) 0.02 0.02			Average
0.06915 0.09004	-27.51 -31.27 -34.31	80 80 80 80	-69.45 -62.08 -62.83	<mark>(dΒμV/m)</mark> 41.94 30.81 28.52	(dBµV) 33.56 29.81 27.31	(dB) 18.91 18.9 18.36	(dB) 0.02 0.02 0.02			Average QP
0.06915 0.09004 0.1328	-27.51 -31.27 -34.31 -37.71	80 80 80 80 80	-69.45 -62.08 -62.83 -62.85	(dBµV/m) 41.94 30.81 28.52 25.14 24.8	(dBµV) 33.56 29.81 27.31 24.02	(dB) 18.91 18.9 18.36 18.25	(dB) 0.02 0.02 0.02 0.02		(deg) - - -	Average QP Average Average
0.06915 0.09004 0.1328 0.13812	-27.51 -31.27 -34.31 -37.71 9.74	80 80 80 80 80 80	-69.45 -62.08 -62.83 -62.85 -15.06	(dBµV/m) 41.94 30.81 28.52 25.14 24.8	(dBµV) 33.56 29.81 27.31 24.02 71.45	(dB) 18.91 18.9 18.36 18.25 18.27	(dB) 0.02 0.02 0.02 0.02 0.02		(deg) - - -	Average QP Average
0.06915 0.09004 0.1328 0.13812 0.15	-27.51 -31.27 -34.31 -37.71 9.74 0.8	80 80 80 80 80 80 80	-69.45 -62.08 -62.83 -62.85 -15.06 -23.28	(dBµV/m) 41.94 30.81 28.52 25.14 24.8 24.08	(dBµV) 33.56 29.81 27.31 24.02 71.45 62.45	(dB) 18.91 18.9 18.36 18.25 18.27 18.33	(dB) 0.02 0.02 0.02 0.02 0.02 0.02	<u>(cm)</u> - - - - -	(deg) - - - - - -	Average QP Average Average Average
0.06915 0.09004 0.1328 0.13812 0.15 0.70779	-27.51 -31.27 -34.31 -37.71 9.74 0.8 25.49	80 80 80 80 80 80 80 40	-69.45 -62.08 -62.83 -62.85 -15.06 -23.28 -5.12	(dBµV/m) 41.94 30.81 28.52 25.14 24.8 24.08 30.61	(dBµV) 33.56 29.81 27.31 24.02 71.45 62.45 46.49	(dB) 18.91 18.9 18.36 18.25 18.27 18.33 18.98	(dB) 0.02 0.02 0.02 0.02 0.02 0.02 0.02	<u>(cm)</u> - - - - -	(deg) - - - - - - 0	Averag QP Averag Averag Averag QP

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





0.01925	-37.12	80	-79.04	41.92	23.95	10.91	0.02	-	-	Average
0.06915	-44.38	80	-75.19	30.81	16.7	18.9	0.02	-	-	Average
0.10928	-41.01	80	-67.84	26.83	20.83	18.14	0.02	-	-	QP
0.13572	-42.81	80	-67.76	24.95	18.91	18.26	0.02	-	-	Average
0.14104	2.32	80	-22.3	24.62	64.02	18.28	0.02	-	-	Average
0.15	-1.88	80	-25.96	24.08	59.77	18.33	0.02	-	-	Average
0.7153	19.42	40	-11.09	30.51	40.41	18.99	0.02	100	0	QP
12.08	-5.84	40	-35.34	29.5	12.91	21.23	0.02	-	-	QP
21.985	-4.45	40	-33.95	29.5	13.3	22.18	0.07	-	-	QP
29.11	-5.5	40	-35	29.5	11.79	22.46	0.25	-	-	QP

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. Limit line = specific limits (dBµV) + distance extrapolation factor



Test Mode		arging with Ar	nother	Phone; Bat	tery 50%	Pola	arizatio	n:	Horizo	ontal
	90 <mark>Level (dBuV</mark> /	m)						Date	: 2021-07	-09
79	9.3									_
68	3.6									
57	7.9									
47	7.1									
	5.4							15.20	9 LIMIT LI	NE
	5.7									
	5.0 × · · · · · · · · · · · · · · · · · ·									
	5.4			8		9			10	
-17										
-27	.9									_
-38	3.6		_					_		_
	9.3									
-	60 <mark>0.009 3.</mark>	5. 7.	9. 1	1. 13. 1 Frequen		19. 21.	23.	25.	27. 29	9.30
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remarl
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)		(dBµV/m)		(dB)	(dB)	(cm)	(deg)	
0.01925	-31.32	80	-73.24	41.92	29.75	18.91	0.02	-	-	Average
0.08745	-30.47	80	-59.24	28.77	31.08	18.43	0.02	-	-	Average
0.09034	-32.45	80	-60.94	28.49	29.18	18.35	0.02	-	-	QP
0.11	-33.85	80	-60.63	26.78	27.98	18.15	0.02	-	-	Average
0.14748	-23.77	80	-48	24.23	37.9	18.31	0.02	-	-	Average
0.15	-28.07	80	-52.15	24.08	33.58	18.33	0.02	-	-	Average
		40	-23.18	26.97	24.67	19.1	0.02	100	0	QP
1.076	3.79	40	-23.10							
1.076 13.56	3.79 -3.68	40 40	-33.18	29.5	14.92	21.39	0.01	-	-	QP
					14.92 12.65	21.39 22.13	0.01 0.06	-	-	QP QP



Test Mode :	WPC Ch	arging with A	nother	6 Pola	Polarization : Vertical					
9	0 Level (dBuV/	m)	_		Date: 2021-07-09					
79.								_		_
68.	6									_
57.	9									
47.	1							_		_
36.4	4							15.20	9 LIMIT LI	NE
25.	7									
15.	o		_							_
4.:	7		8			9		_		10
-6.4						1				
-17.1										
-27.										
-38.										
~	0 <mark>0.009 3.</mark>	5. 7.	9. 11	I. 13. 14 Frequen		19. 21.	23.	25.	27. 29	. 30
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz) ((dBµV/m)	(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.009	-35.83	80	-84.35	48.52	25.55	18.6	0.02	-	-	Average
0.08709	-39.56	80	-68.36	28.8	21.98	18.44	0.02	-	-	Average
0.09024	-41.57	80	-70.07	28.5	20.06	18.35	0.02	-	-	QP
0.11004	-33.88	80	-60.65	26.77	27.95	18.15	0.02	-	-	Average
										•
0.14748	-29.07	80	-53.3	24.23	32.6	18.31	0.02	-	-	Average

1.016

9.72

20.419

29.635

-4.03

-5.78

-5.64

-4.94

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

27.47

29.5

29.5

29.5

16.85

13.29

12.19

12.3

19.1

20.91

22.12

22.49

0.02

0.02

0.05

0.27

100

-

_

-

0

-

-

-

2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

-31.5

-35.28

-35.14

-34.44

3. Limit line = specific limits (dBµV) + distance extrapolation factor

40

40

40

40

QP

QP

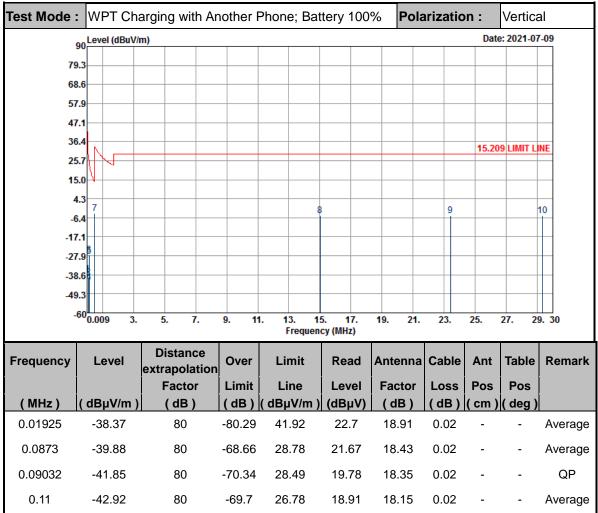
QP

QP



								Dete	10024-07	00
1	90 Level (dBuV/	m)						Date	: 2021-07	-09
79	9.3									_
68	3.6									_
	7.9									
	7.1									
	5.7							15.20	9 LIMIT L	NE
	5.0									
	1.3 7									
-6	5.4			8	9				10	_
-17	7.15									
-27	7.9									
-38	3.6									
	9.3									_
-	60 <mark>0.009 3.</mark>	5. 7.	9. 11		5. 17. ncy (MHz)	19. 21.	23.	25.	27. 2	9. 30
		Distance			, ([-
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remar
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.01925	-34.15	80	-76.07	41.92	26.92	18.91	0.02	-	-	Averag
0.08724	-31.85	80	-60.64	28.79	29.7	18.43	0.02	-	-	Averag
0.11	-33.89	80	-60.67	26.78	27.94	18.15	0.02	-	-	QP
								-	-	
0.11	-33.33	80	-60.11	26.78	28.5	18.15	0.02	-	-	Averag
0.11 0.1474	-33.33 -23.15	80 80	-60.11 -47.38	26.78 24.23	28.5 38.52	18.15 18.31	0.02 0.02	-	- -	Averag Averag
0.11	-33.33	80	-60.11	26.78	28.5	18.15	0.02	-	- - -	Averag
0.11 0.1474	-33.33 -23.15	80 80	-60.11 -47.38	26.78 24.23	28.5 38.52	18.15 18.31	0.02 0.02	- - - 100	- - - 0	Averag Averag
0.11 0.1474 0.15	-33.33 -23.15 -22.75	80 80 80	-60.11 -47.38 -46.83	26.78 24.23 24.08	28.5 38.52 38.9	18.15 18.31 18.33	0.02 0.02 0.02	- - - 100 -	-	Averag Averag Averag
0.11 0.1474 0.15 1.061	-33.33 -23.15 -22.75 3.48	80 80 80 40	-60.11 -47.38 -46.83 -23.61	26.78 24.23 24.08 27.09	28.5 38.52 38.9 24.36	18.15 18.31 18.33 19.1	0.02 0.02 0.02 0.02	- - - 100 -	-	Averag Averag Averag QP





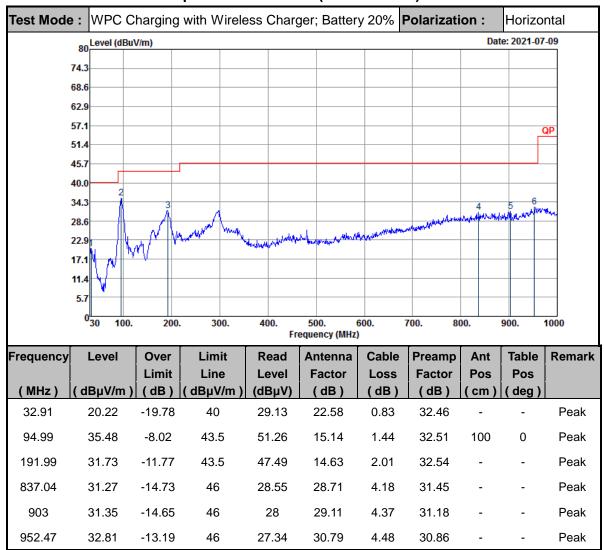
0.0	015	-39.00	00	-00.00	20.70	21.07	10.45	0.02	-	-	Average
0.0	9032	-41.85	80	-70.34	28.49	19.78	18.35	0.02	-	-	QP
0	.11	-42.92	80	-69.7	26.78	18.91	18.15	0.02	-	-	Average
0.1	474	-28.06	80	-52.29	24.23	33.61	18.31	0.02	-	-	Average
0	.15	-27.29	80	-51.37	24.08	34.36	18.33	0.02	-	-	Average
0.4	9751	-4.01	40	-37.68	33.67	17.07	18.9	0.02	-	-	QP
15	.024	-5.12	40	-34.62	29.5	13.32	21.55	0.01	100	0	QP
23	.398	-5.22	40	-34.72	29.5	12.46	22.24	0.08	-	-	QP
29	.325	-5.26	40	-34.76	29.5	12.02	22.47	0.25	-	-	QP

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)

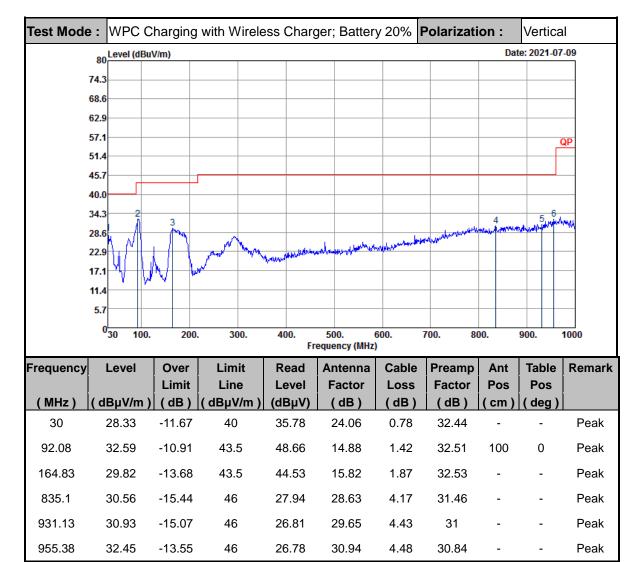
3. Limit line = specific limits (dBµV) + distance extrapolation factor





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





1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

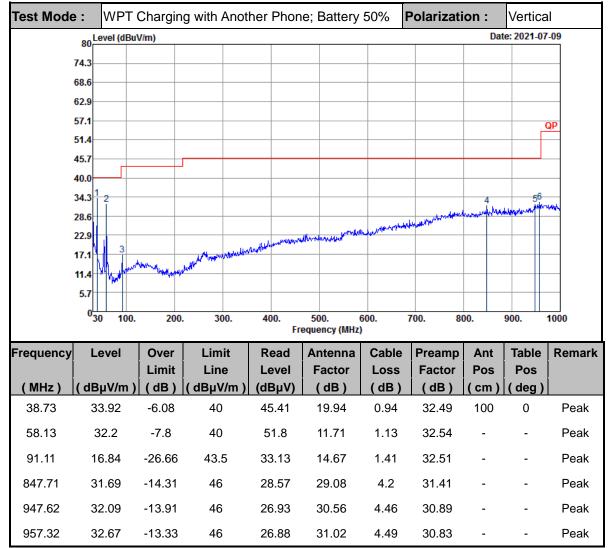
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.



est Mod	e: WPT C	harging	with Anothe	er Phone	; Battery 5	0% F	Polarizati	on :	Horizo	ntal
	80 Level (dBu	V/m)					1	Dat	te: 2021-07	-09
	74.3									
	68.6									_
	62.9									
	57.1									ĮΡ
	51.4									
	45.7									_
	40.0									_
	34.3						ىمىلىغى ر	4	mary superior	
	28.6 22.9	2			la haraben an tar an tar	water and the stand	Washing and a second			
	17.1	Ĭ	her wer have	www.manualey.com	fer and an and the second second					_
	11.4	Ahad Lame	Marine Weight and							
	5.7									_
	0 ₃₀ 100.	200.	300.	400.	500.	600.	700. 80)0.	900.	1000
	50 100.	200.	500.		equency (MHz)					
requency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)		(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30	19.91	-20.09	40	27.36	24.06	0.78	32.44	-	-	Peak
104.69	22.88	-20.62	43.5	37.35	16.38	1.5	32.5	-	-	Peak
136.7	21.32	-22.18	43.5	34.69	17.32	1.7	32.51	-	-	Peak
832.19	30.99	-15.01	46	28.57	28.43	4.17	31.47	-	-	Peak
									_	
932.1	31	-15	46	26.81	29.71	4.43	30.99	100	0	Peak



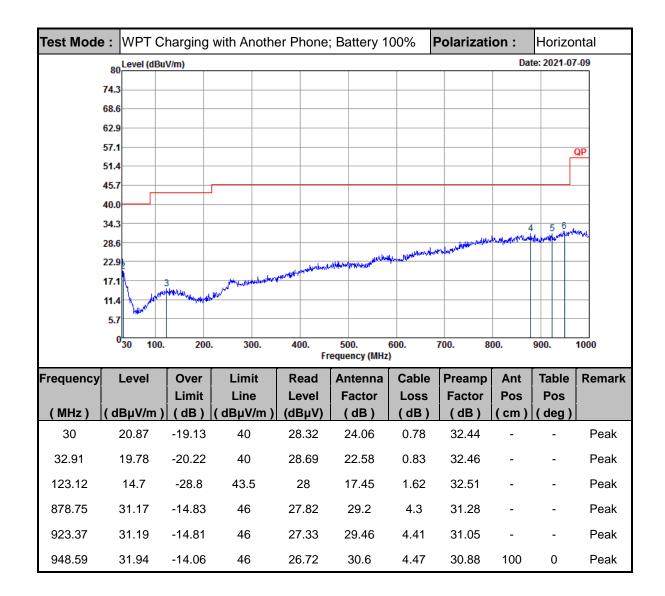


1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

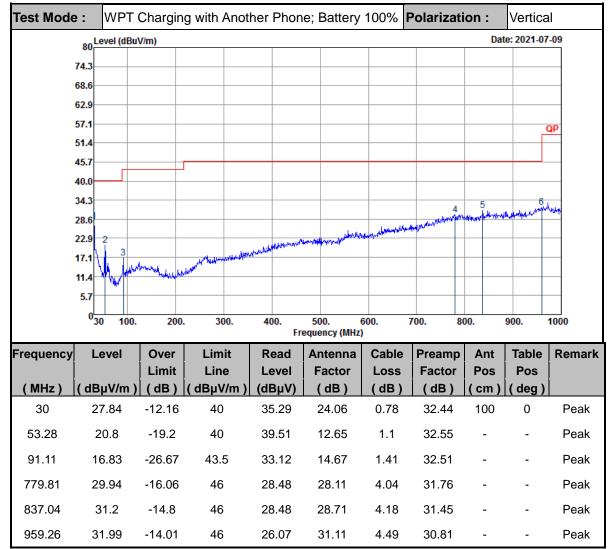
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.









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 μ V/m) = 20 log Emission level (μ V/m).

3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.

