

TEST REPORT

Applicant: Shenzhen Leiden Digital Technology Co., Ltd

Address of Applicant: Room 602A, Building F, Second Industrial Zone, No.131 Bulan Road, Shanglilang Community, Nanwan, Longgang District, Shenzhen, Guangdong, China

Manufacturer/Factory: Shenzhen Leiden Digital Technology Co., Ltd

Address of Manufacturer/Factory: Room 602A, Building F, Second Industrial Zone, No.131 Bulan Road, Shanglilang Community, Nanwan, Longgang District, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: 3-in-1 wireless charger

Model No.: T40

Trade Mark: N/A

FCC ID: 2A4FX-T40

Applicable standards: FCC CFR Title 47 Part 15 Subpart C

Date of sample receipt: Jun. 23, 2025

Date of Test: Jun. 23, 2025 to Jul. 11, 2025

Date of report issued: Jul. 15, 2025

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

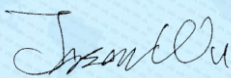
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	Jul. 15, 2025	Original

Prepared By:

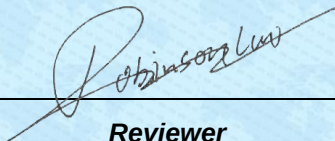


Date:

Jul. 15, 2025

Project Engineer

Check By:



Date:

Jul. 15, 2025

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	3-in-1 wireless charger
Model No.:	T40
Serial No.:	N/A
Test sample(s) ID:	GTSL2025060430-1
Sample(s) Status	Engineer sample
Operation Frequency:	110-205kHz
Modulation type:	ASK
Wireless Charging Output Power:	Phone: 5W/7.5W/10W/15W(MAX) Earphone: 5W(MAX) Watch: 2.5W
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	DC 5/9/12V from adapter

Remark:

1. Antenna gain information provided by the customer
2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

Test Channel					
ANT	Frequency (kHz)	ANT	Frequency (kHz)	ANT	Frequency (kHz)
01	118.5	02	160.7	03	188.4

5.2 Test mode

Wireless charging mode	Keep the EUT in wireless charging status.
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5.3 Description of Support Units

Manufacturer	Description	Model	S/N
YBZ	Intelligent wireless charging full function test module (5W/7.5W/10W/15W MAX) (110-205kHz)	001	N/A
APPLE	Earphone (5W Max) (110-205kHz)	AirPods Pro2	N/A
APPLE	Watch (2.5W) (110-205kHz)	Series 8	N/A

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC—Registration No.: 381383 Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. ● IC —Registration No.: 9079A CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
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5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Jun. 22, 2024	Jun. 21, 2027
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 11, 2025	Apr. 10, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Mar. 19, 2024	Mar. 18, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 17, 2024	Apr. 16, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Apr. 11, 2025	Apr. 10, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.12, 2024	Nov.11, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (10GH-40GHz)	SCHWARZBECK	01296	GTS691	Jul. 05, 2025	Jul. 04, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 07, 2024	Nov. 06, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 18, 2025	Apr. 17, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2025	Jul. 01, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2025	Jul. 01, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2025	Jul. 01, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2025	Jul. 01, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2025	Jul. 01, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2025	Jul. 01, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2025	Jul. 04, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2025	Jul. 04, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2025	Apr. 10, 2026
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2025	Apr. 10, 2026
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 18, 2025	Apr. 17, 2026
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 11, 2025	Apr. 10, 2026
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2025	Apr. 10, 2026
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2025	Apr. 10, 2026
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2025	Apr. 10, 2026
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 13, 2025	Apr. 12, 2026
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 13, 2025	Apr. 12, 2026
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 13, 2025	Apr. 12, 2026
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 13, 2025	Apr. 12, 2026
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 13, 2025	Apr. 12, 2026
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 13, 2025	Apr. 12, 2026
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 13, 2025	Apr. 12, 2026
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 13, 2025	Apr. 12, 2026
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 18, 2025	Apr. 17, 2026

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2025	Apr. 17, 2026

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	
The antenna is Inductive loop coil Antenna, reference to the appendix II for details.	

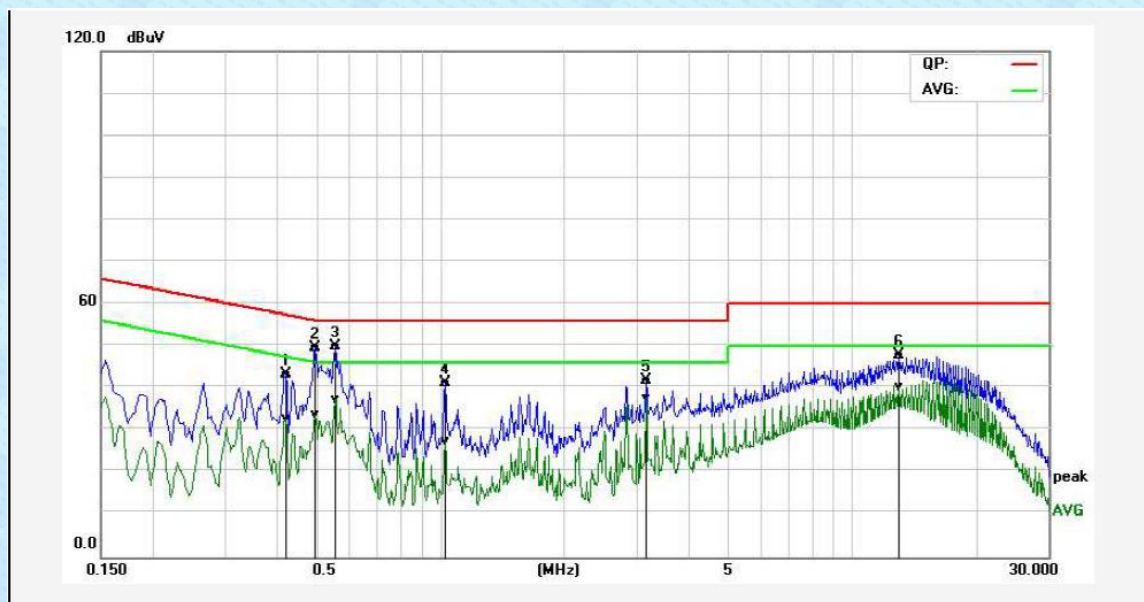
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			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.						
Test setup:	Reference Plane 40cm LISN 40cm AUX Equipment E.U.T Test table/Insulation plane 80cm 40cm LISN Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

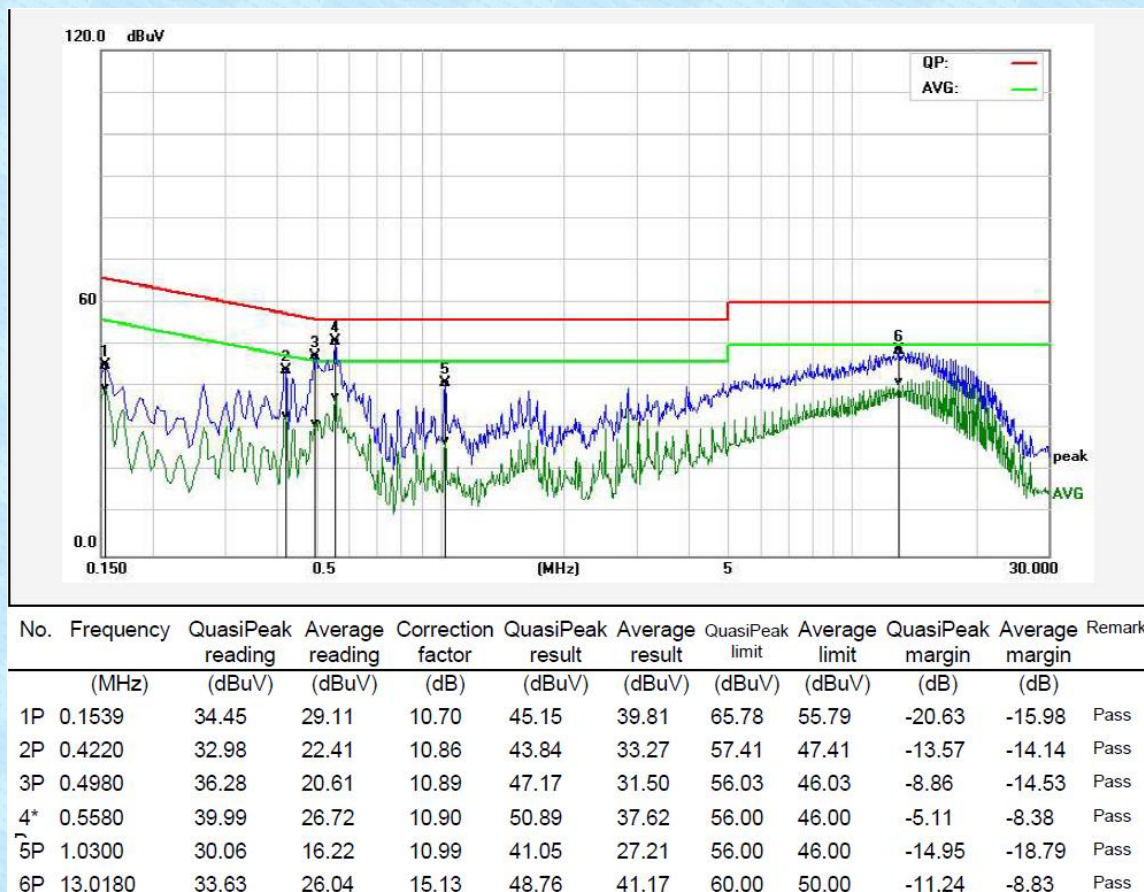
Measurement data:

Line:



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.4220	32.63	22.02	10.86	43.49	32.88	57.41	47.41	-13.92	-14.53	Pass
2P	0.4980	38.90	22.88	10.89	49.79	33.77	56.03	46.03	-6.24	-12.26	Pass
3*	0.5580	39.04	26.49	10.90	49.94	37.39	56.00	46.00	-6.06	-8.61	Pass
4P	1.0300	30.14	16.42	10.99	41.13	27.41	56.00	46.00	-14.87	-18.59	Pass
5P	3.1700	30.09	25.98	11.72	41.81	37.70	56.00	46.00	-14.19	-8.30	Pass
6P	13.0060	32.77	25.16	15.12	47.89	40.28	60.00	50.00	-12.11	-9.72	Pass

Neutral:

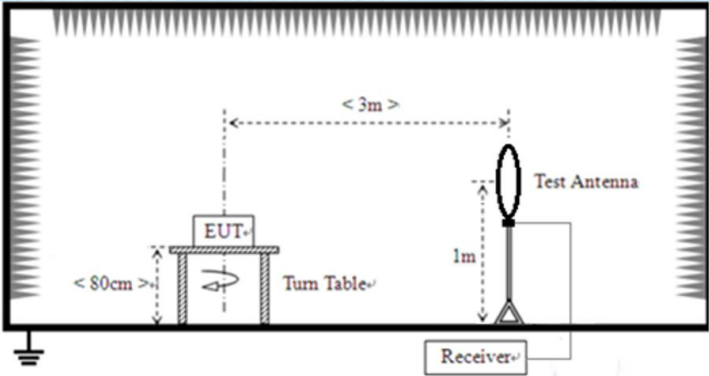
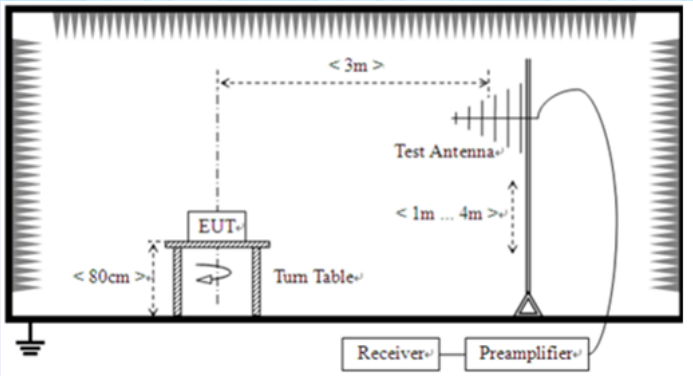


Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

7.3 Spurious Emission

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		AV	1MHz	10Hz	Average Value
	Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.				
Limit: (Spurious Emissions)	Limits for frequency below 30MHz				
	Frequency	Limit (uV/m)	Measurement Distance(m)	Remark	
	0.009-0.490	2400/F(kHz)	300	Quasi-peak Value	
	0.490-1.705	24000/F(kHz)	30	Quasi-peak Value	
	1.705-30	30	30	Quasi-peak Value	
	Limits for frequency Above 30MHz				
	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.00		Quasi-peak Value	
	88MHz-216MHz	43.50		Quasi-peak Value	
	216MHz-960MHz	46.00		Quasi-peak Value	
960MHz-1GHz	54.00		Quasi-peak Value		
Above 1GHz	54.00		Average Value		
	74.00		Peak Value		
Remark: 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, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the				

	EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.					
Test setup:	Below 30MHz  30MHz ~ 1000MHz 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

ANT1(Phone coil):

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1185	PK	70.53	15.46	85.99	104.71	-18.72
0.656	PK	65.67	15.61	81.28	91.24	-9.96
0.742	PK	62.33	15.34	77.67	90.11	-12.44
0.842	PK	37.28	15.92	53.20	89.38	-36.18
1.728	PK	28.32	16.24	44.56	82.78	-38.22
2.558	PK	32.09	15.27	47.36	79.56	-32.20
4.733	PK	31.14	15.61	46.75	74.01	-27.26
8.196	PK	31.25	15.63	46.88	69.27	-22.39

ANT2(Earphone coil):

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1607	PK	65.45	15.61	81.06	105.42	-24.36
0.711	PK	65.31	15.61	80.92	90.60	-9.68
0.727	PK	62.97	15.34	78.31	90.03	-11.72
0.835	PK	37.24	15.92	53.16	89.42	-36.26
1.744	PK	28.25	16.24	44.49	82.81	-38.32
2.532	PK	32.56	15.27	47.83	79.57	-31.74
4.787	PK	31.48	15.61	47.09	74.01	-26.92
8.276	PK	31.27	15.63	46.90	69.27	-22.37

ANT3(Watch coil):

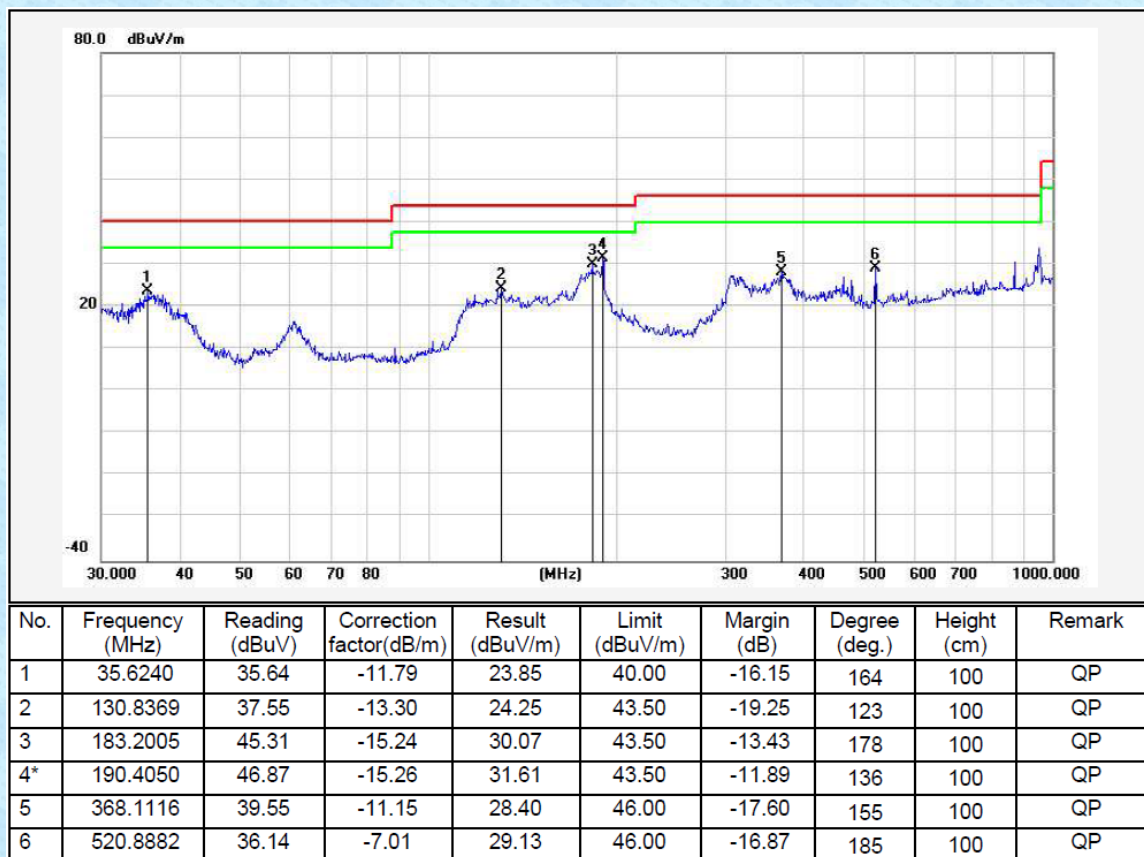
Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1884	PK	62.47	15.34	77.81	105.46	-27.65
0.646	PK	65.35	15.61	80.96	91.56	-10.60
0.731	PK	62.41	15.34	77.75	90.02	-12.27
0.828	PK	37.27	15.92	53.19	89.16	-35.97
1.714	PK	28.56	16.24	44.80	82.71	-37.91
2.552	PK	32.42	15.27	47.69	79.54	-31.85
4.768	PK	31.61	15.61	47.22	74.04	-26.82
8.246	PK	31.44	15.63	47.07	69.27	-22.20

ANT1(Phone coil) + ANT2(Earphone coil) + ANT3(Watch coil):

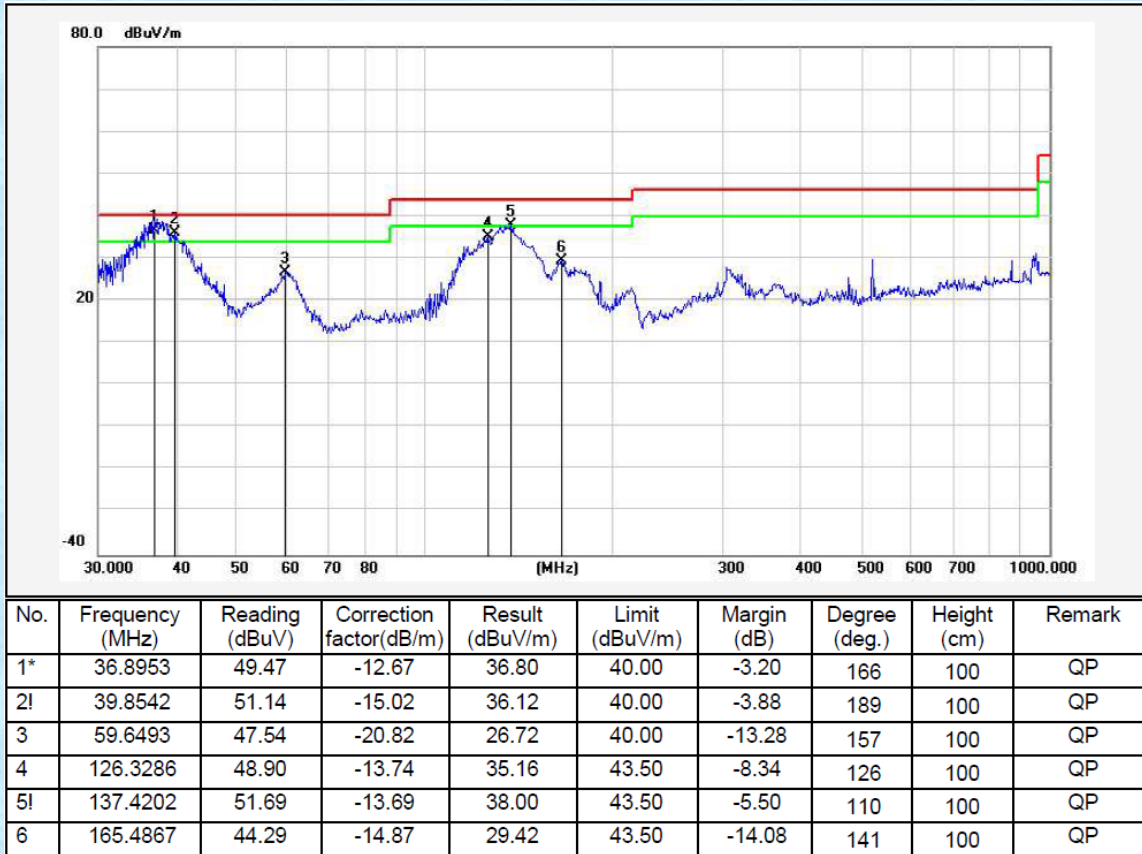
Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1385	PK	70.32	15.46	85.78	104.71	-18.93
0.1508	PK	65.48	15.61	81.09	105.42	-24.33
0.1785	PK	62.84	15.34	78.18	105.46	-27.28
0.831	PK	37.05	15.92	52.97	89.36	-36.39
1.739	PK	28.30	16.24	44.54	82.75	-38.21
2.544	PK	32.43	15.27	47.70	79.57	-31.87
4.751	PK	31.58	15.61	47.19	74.02	-26.83
8.247	PK	31.35	15.63	46.98	69.28	-22.30

30MHz~1GHz

Horizontal



Vertical



8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----