



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Report No.: GZEM190601341901
Page: 1 of 23
FCC ID: UQ3WC10WGGL

TEST REPORT

Application No.: GZEM1906013419CR
Applicant: Lucent Trans Electronics Co Ltd.
Address of Applicant: 9F, No. 16 CHIEN PAH RD CHUNG HO DISTRICT, NEW TAIPEI 235
TAIWAN
Manufacturer: Lucent Trans Electronics Co Ltd.
Address of Manufacturer: 9F, No. 16 CHIEN PAH RD CHUNG HO DISTRICT, NEW TAIPEI 235
TAIWAN
Factory: 1. LUCENT TRANS ELECTRONICS CO., LTD.
2. LUCENT TRANS ELECTRONICS CO., LTD.
Address of Factory: 1. Hanfeng Building, Datong Village, Dongchong Town, Nansha District,
Guangzhou, Guangdong, China
2. 9F, No. 16 CHIEN PAH RD CHUNG HO DISTRICT, NEW TAIPEI 235
TAIWAN
Equipment Under Test (EUT):
FCC ID: UQ3WC10WGGL
EUT Name: Wireless Charging Pad
Model No.: WC10WGGL-AL, 60-4583-01-VW, 520507A470, 5WH. ☒
☒ Please refer to section 2 of this report which indicates which model was
actually tested and which were electrically identical.
Trade Mark: Verizon
Standard(s) : 47 CFR Part 18
Date of Receipt: 2019-06-06
Date of Test: 2019-06-10 to 2019-06-13
Date of Issue: 2019-06-17

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

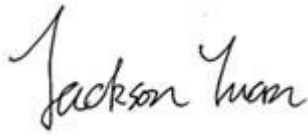


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-06-17		Original

Authorized for issue by:			
Tested By	 Jackson_Yuan /Project Engineer	2019-06-10 to 2019-06-13	Date
Checked By	 Ricky_Liu /Reviewer	2019-06-17	Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Clause 18.307 (b)	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	Clause 18.305 (b)	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Clause 18.305 (b)	Pass

■ Declaration of EUT Family Grouping:

Model No.: WC10WGGL-AL, 60-4583-01-VW, 520507A470, 5WH

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model **WC10WGGL-AL** was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 5V/9V/12V powered by AC/DC adapter as below:
Model No.: 580245A071
Input: AC 100-240 V, 500 mA, 50-60 Hz
Output: DC 3.6 -6 V, 3 A
DC 6.2 -9 V, 2 A(QC3.0)
DC 9.2 -12 V, 1.5 A(QC3.0)

Test Voltage: AC 120 V, 60 Hz

Cable: For main unit: Micro USB ports;
For AC/DC adapter: AC plug;
DC output cables (unshielded, 1.5 m)

Max Internal Source: 8MHz

Operation Frequency: 100-300 kHz

Antenna Type: Inductive Loop Coil Antenna

Modulation Type: Load Modulation

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	GT-9500	RV1D82X8W9X



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

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No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-29
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-29
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC OST/MP-5:1986
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

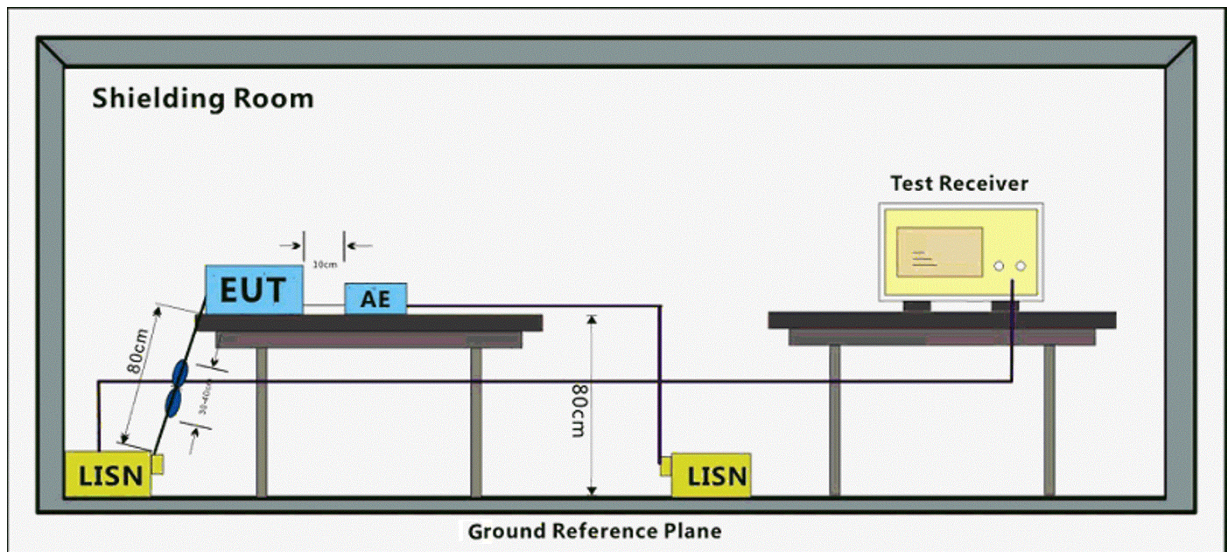
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 28.2 °C Humidity: 64.7 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram

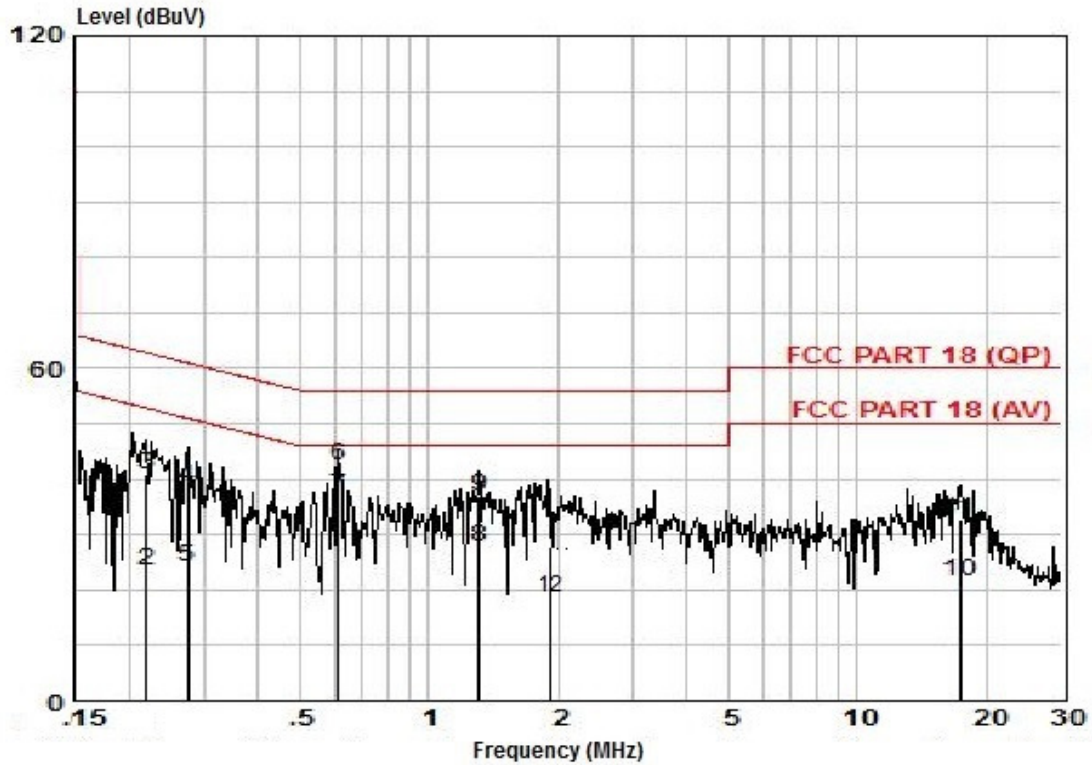


6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor

Mode:a; Line:Live Line



Pol :LIVE
No :
Model :

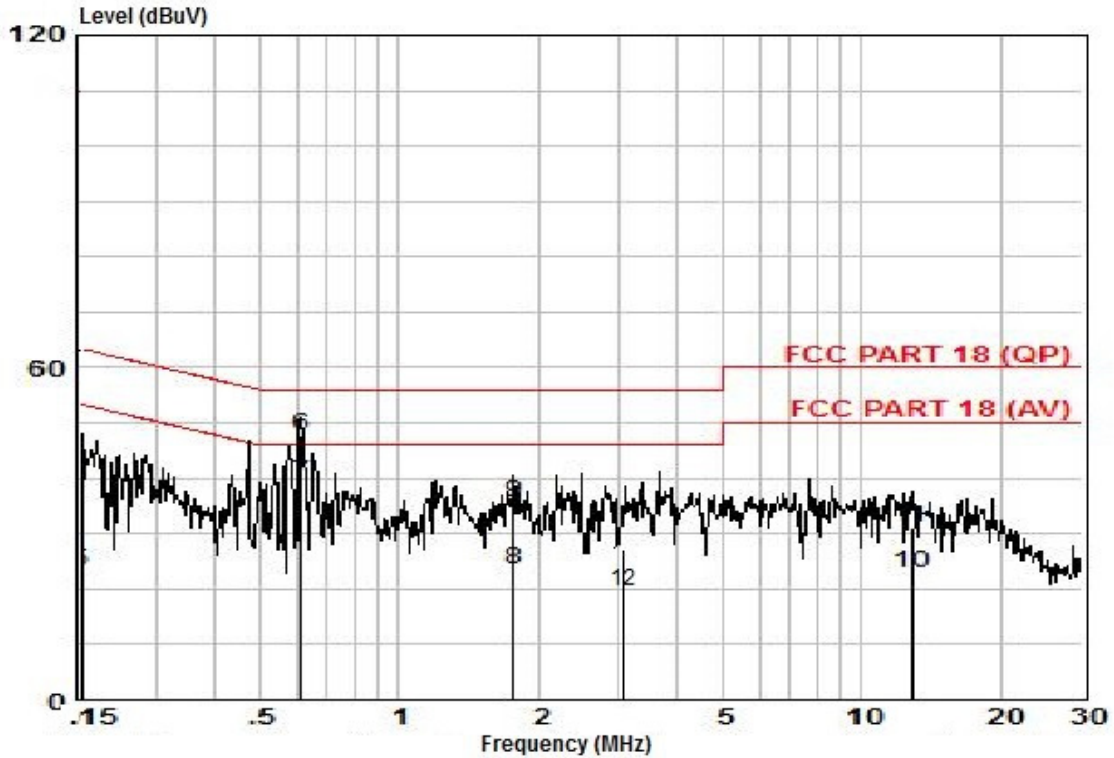
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0,22	13,75	0,10	9,66	23,51	52,83	-29,32	AVERAGE
0,22	30,98	0,10	9,66	40,74	62,83	-22,09	QP
0,27	28,91	0,10	9,67	38,68	61,03	-22,35	QP
0,27	14,27	0,10	9,67	24,04	51,03	-26,99	AVERAGE
0,61	32,74	0,10	9,67	42,51	56,00	-13,49	QP
0,61	27,12	0,10	9,67	36,89	46,00	-9,11	AVERAGE
1,31	17,85	0,10	9,68	27,63	46,00	-18,37	AVERAGE
1,31	27,33	0,10	9,68	37,11	56,00	-18,89	QP
1,91	28,62	0,38	9,66	38,66	56,00	-17,34	QP
1,91	12,44	0,38	9,66	22,48	46,00	-13,52	AVERAGE
17,38	11,47	0,40	9,82	21,69	50,00	-28,31	AVERAGE
17,38	22,43	0,40	9,82	32,65	60,00	-27,35	QP



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Mode:a; Line:Neutral Line



Pol : NEUTRAL
No :
Model :

Frequency MHz	read level dBUV	Cable Loss dB	LISN Factor dB	Measured level dBUV	Limit Line dBUV	Over limit dB	Remark
0.15	20.70	0.10	9.58	30.38	55.78	-25.40	AVERAGE
0.15	36.81	0.10	9.58	46.49	65.78	-19.29	QP
0.21	30.90	0.10	9.60	40.60	63.40	-22.80	QP
0.21	13.45	0.10	9.60	23.15	53.40	-30.25	AVERAGE
0.61	37.88	0.10	9.60	47.58	56.00	-8.42	QP
0.61	29.48	0.10	9.60	39.18	46.00	-6.82	AVERAGE
1.77	13.68	0.10	9.62	23.40	46.00	-22.60	AVERAGE
1.77	25.79	0.10	9.62	35.51	56.00	-20.49	QP
3.11	28.04	0.54	9.70	38.28	56.00	-17.72	QP
3.11	12.89	0.54	9.70	23.13	46.00	-22.87	AVERAGE
12.85	12.78	0.30	9.78	22.86	50.00	-27.14	AVERAGE
12.85	21.02	0.30	9.78	31.10	60.00	-28.90	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 30MHz to 1GHz
Measurement Distance: 10m
Limit:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified	Any ISM frequency	Below 500	25	300
(miscellaneous).		500 or more	$25 \times \text{SQRT}(\text{power}/500)$	300 (1)
	Any non-ISM frequency	Below 500	15	300
		500 or more	$15 \times \text{SQRT}(\text{power}/500)$	300 (1)
Industrial heaters and RF stabilized arc welders.	On or below 5,725 MHz	Any	10	1,600
	Above 5,725 MHz	Any	(2)	(2)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500	$2,400/F(\text{kHz})$	300
		500 or more	$2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 (3)
	490 to 1,600 kHz	Any	$24,000/F(\text{kHz})$	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	30 (4)
	On or above 90 kHz	Any	300	30 (4)

(1) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

(2) Reduced to the greatest extent possible.

(3) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment is not permitted the increase in field strength

(4) otherwise permitted here for over 500 watts.

Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.



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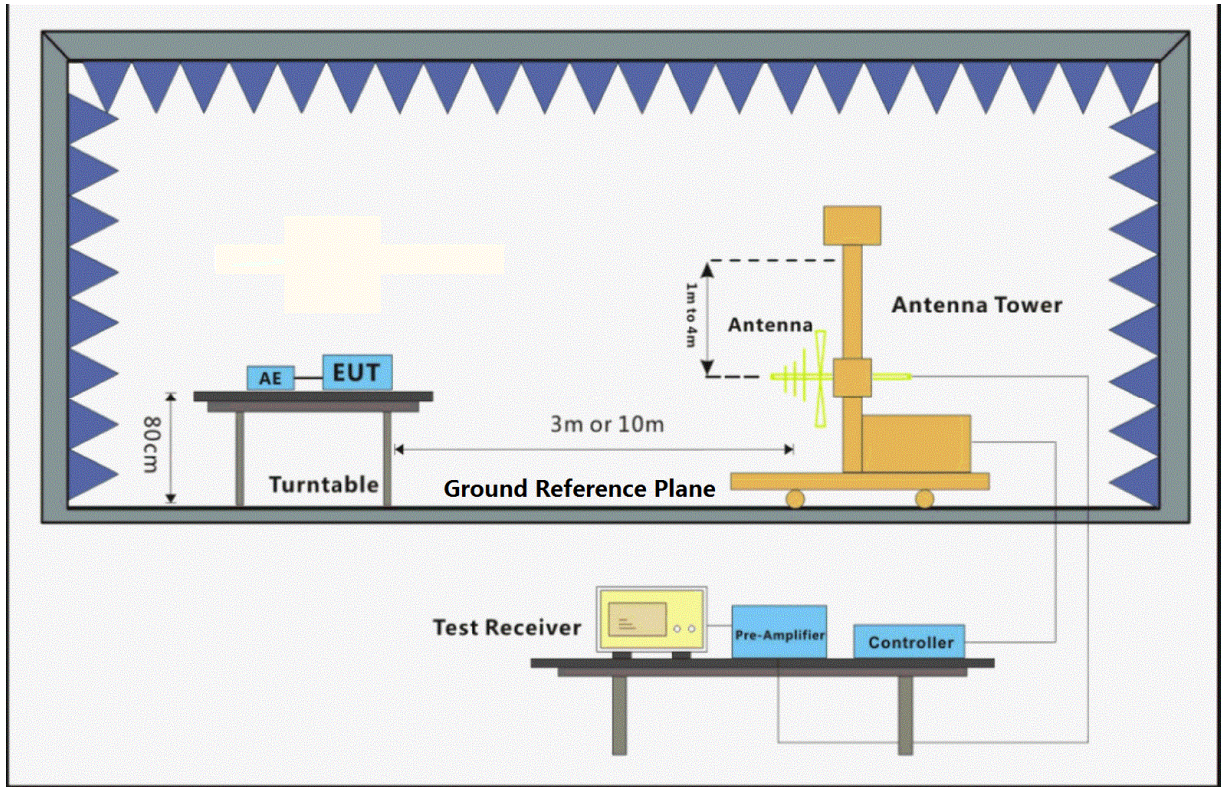
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Charge mode_Keep the EUT charging

6.2.2 Test Setup Diagram

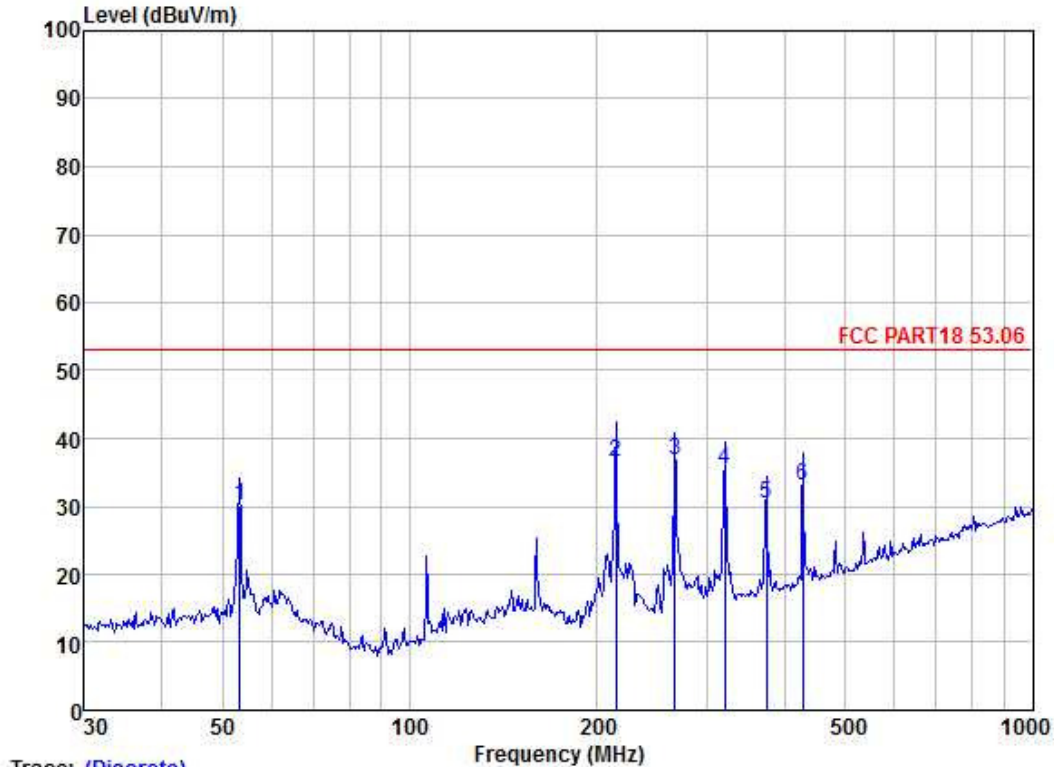


6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

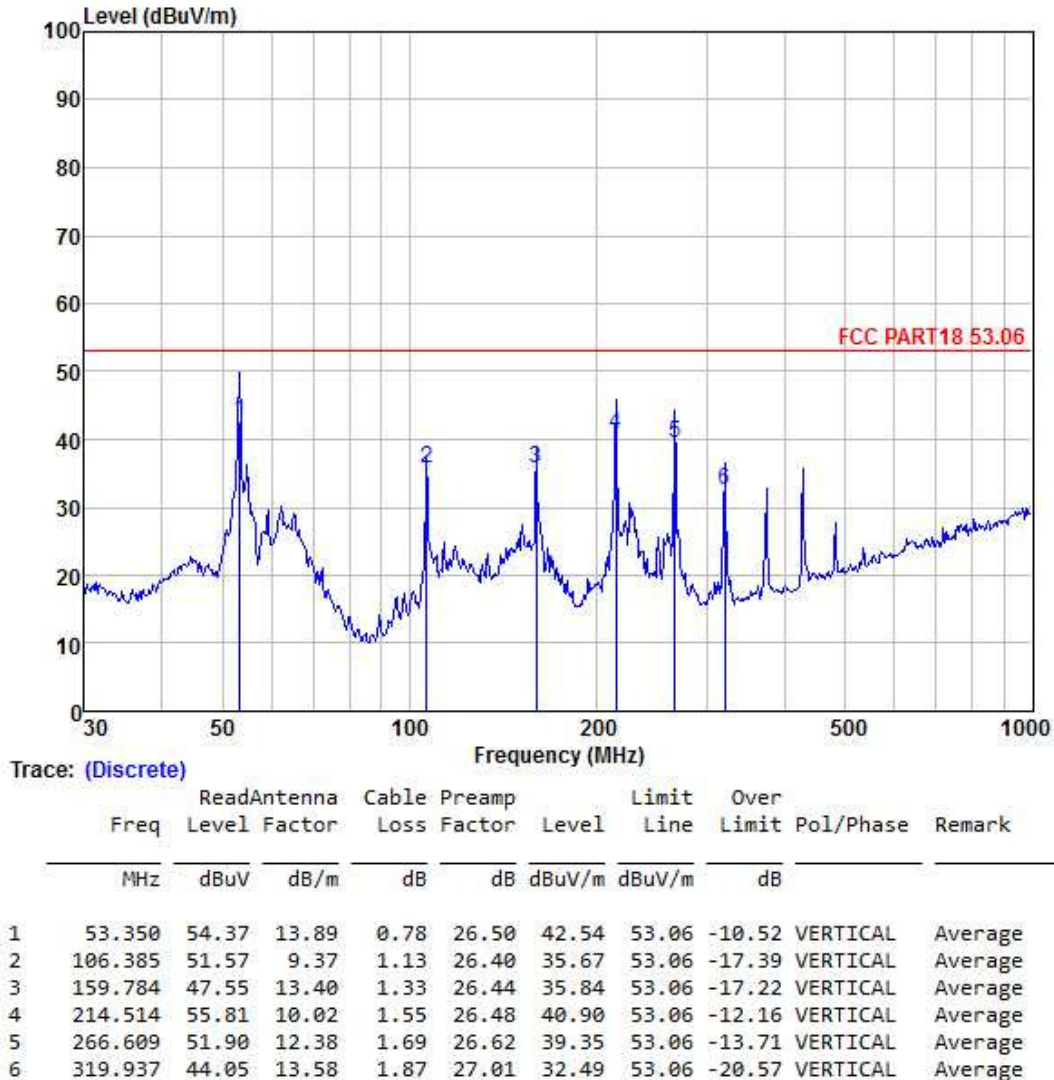
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Mode:a; Polarization:Horizontal



		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	53.318	41.90	13.89	0.78	26.50	30.07	53.06	-22.99	HORIZONTAL	Average
2	214.514	51.40	10.02	1.55	26.48	36.49	53.06	-16.57	HORIZONTAL	Average
3	266.609	49.38	12.38	1.69	26.62	36.83	53.06	-16.23	HORIZONTAL	Average
4	319.937	46.96	13.58	1.87	27.01	35.40	53.06	-17.66	HORIZONTAL	Average
5	373.311	40.56	15.08	1.99	27.29	30.34	53.06	-22.72	HORIZONTAL	Average
6	428.019	42.19	15.89	2.30	27.39	32.99	53.06	-20.07	HORIZONTAL	Average

Mode:a; Polarization:Vertical



Remark:

- 1 This product belongs to any non-ISM frequency equipment, the field strength limit is 15uV/m at 300 meter
- 2 Limit: $20\log(15\text{uV/m}) + 20\log(300/10) = 23.52 + 29.54 = 53.06\text{dBuV/m}$ at 10 meter



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Guangzhou Branch, Testing Center EEC Laboratory

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6.3 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 9kHz to 30MHz
Measurement Distance: 10m
Limit:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified	Any ISM frequency	Below 500	25	300
(miscellaneous).		500 or more	$25 \times \text{SQRT}(\text{power}/500)$	300 (1)
	Any non-ISM frequency	Below 500	15	300
		500 or more	$15 \times \text{SQRT}(\text{power}/500)$	300 (1)
Industrial heaters and RF stabilized arc welders.	On or below 5,725 MHz	Any	10	1,600
	Above 5,725 MHz	Any	(2)	(2)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500	$2,400/F(\text{kHz})$	300
		500 or more	$2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 (3)
	490 to 1,600 kHz	Any	$24,000/F(\text{kHz})$	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	30 (4)
	On or above 90 kHz	Any	300	30 (4)

(1) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

(2) Reduced to the greatest extent possible.

(3) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment is not permitted the increase in field strength

(4) otherwise permitted here for over 500 watts.

Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.



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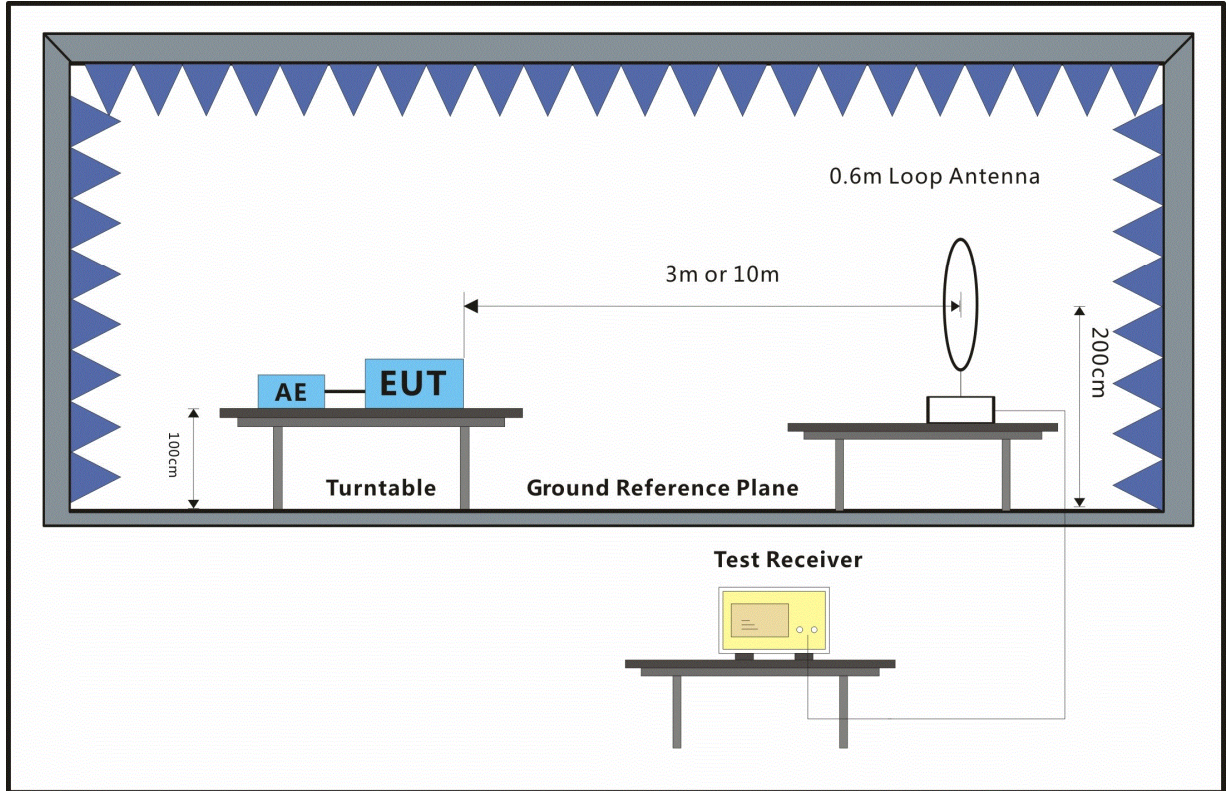
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Charge mode_Keep the EUT charging

6.3.2 Test Setup Diagram

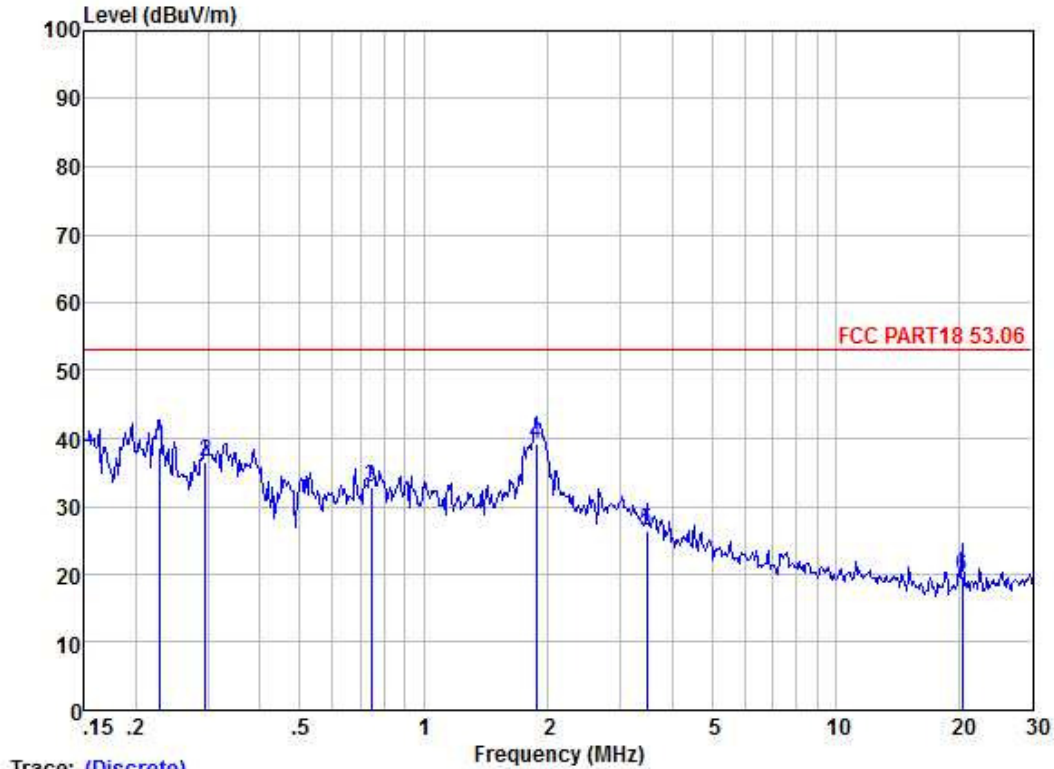


6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Mode:a; Polarization:Horizontal



Trace: (Discrete)

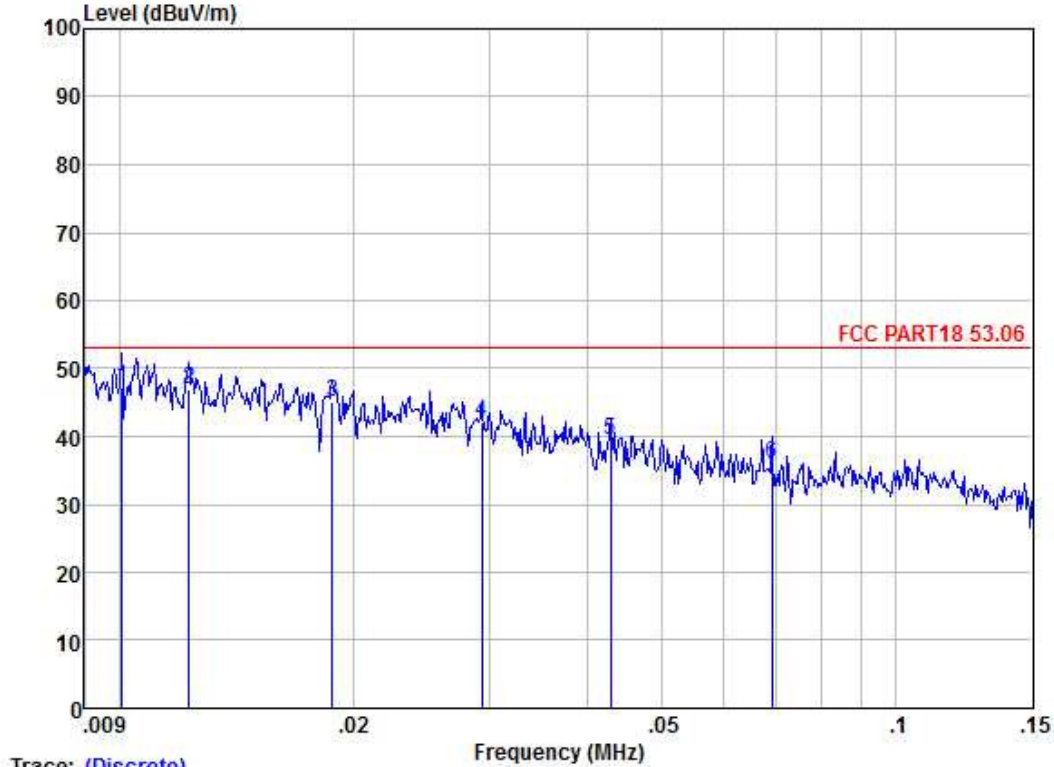
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.229	55.75	12.31	0.07	29.49	38.64	53.06	-14.42	HORIZONTAL	Average
2	0.296	53.57	12.27	0.10	29.45	36.49	53.06	-16.57	HORIZONTAL	Average
3	0.747	49.78	12.20	0.10	29.32	32.76	53.06	-20.30	HORIZONTAL	Average
4	1.878	55.79	12.58	0.10	29.29	39.18	53.06	-13.88	HORIZONTAL	Average
5	3.472	43.64	11.85	0.20	29.25	26.44	53.06	-26.62	HORIZONTAL	Average
6	20.270	37.78	10.31	0.50	28.94	19.65	53.06	-33.41	HORIZONTAL	Average



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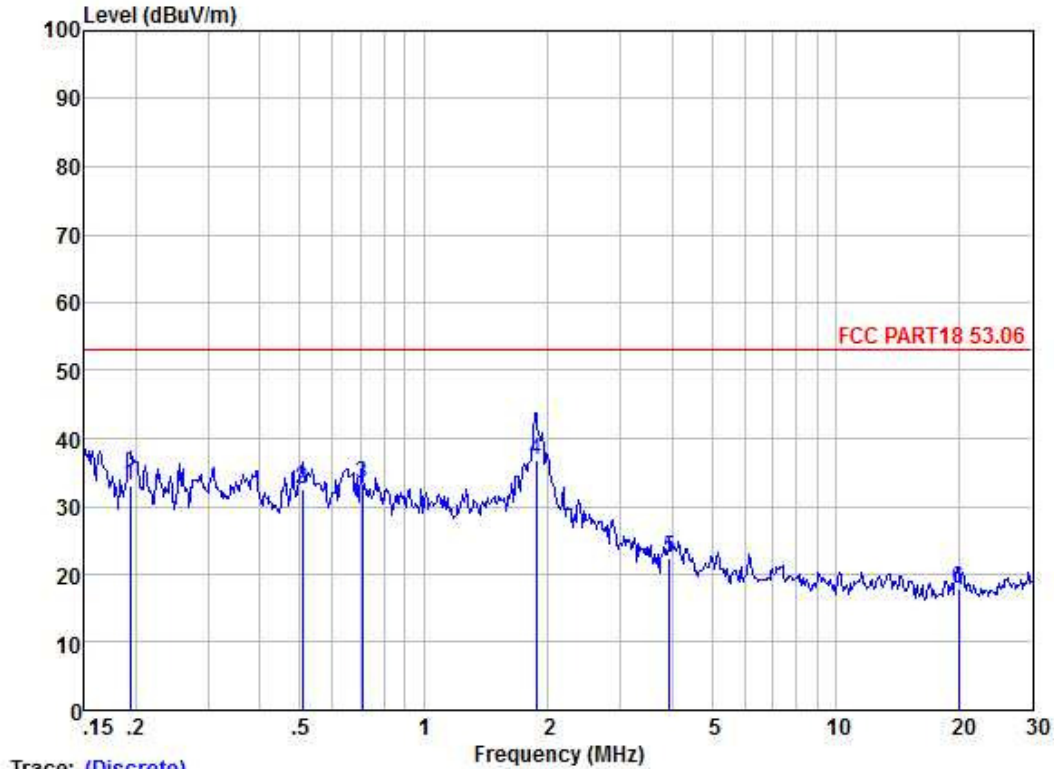
Mode:a; Polarization:Horizontal



Trace: (Discrete)

		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	55.25	21.57	0.00	29.50	47.32	53.06	-5.74	HORIZONTAL	Average
2	0.012	55.83	20.57	0.00	29.50	46.90	53.06	-6.16	HORIZONTAL	Average
3	0.019	58.12	16.44	0.00	29.49	45.07	53.06	-7.99	HORIZONTAL	Average
4	0.029	56.63	14.98	0.00	29.46	42.15	53.06	-10.91	HORIZONTAL	Average
5	0.043	56.21	12.82	0.00	29.44	39.59	53.06	-13.47	HORIZONTAL	Average
6	0.069	52.94	12.41	0.00	29.42	35.93	53.06	-17.13	HORIZONTAL	Average

Mode:a; Polarization:Vertical



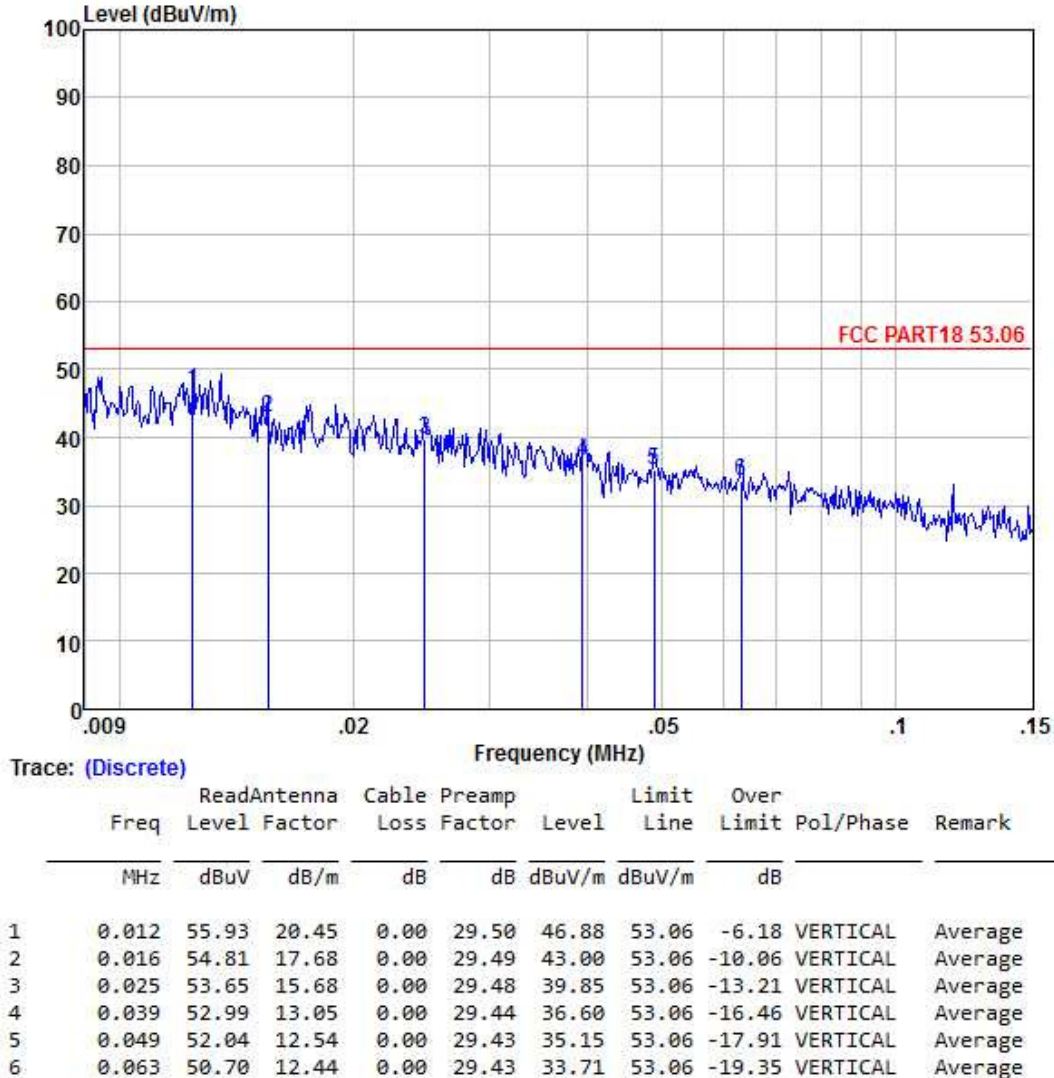
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.193	50.23	12.35	0.00	29.50	33.08	53.06	-19.98	VERTICAL Average
2	0.507	49.80	12.10	0.10	29.35	32.65	53.06	-20.41	VERTICAL Average
3	0.708	50.27	12.19	0.10	29.33	33.23	53.06	-19.83	VERTICAL Average
4	1.878	53.31	12.58	0.10	29.29	36.70	53.06	-16.36	VERTICAL Average
5	3.943	39.61	11.71	0.20	29.24	22.28	53.06	-30.78	VERTICAL Average
6	19.845	35.98	10.30	0.50	28.94	17.84	53.06	-35.22	VERTICAL Average



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Mode:a; Polarization:Vertical



Remark:

1 This product belongs to any non-ISM frequency equipment, the field strength limit is 15uV/m at 300 meter

2 Limit: $20\log(15\text{uV/m}) + 20\log(300/10) = 23.52 + 29.54 = 53.06\text{dBuV/m}$ at 10 meter

--End of Report--



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