Prüfbericht-Nr.: *Test report no.:*	**CN2069HI 001**	**Auftrags-Nr.:** *Order no.:*	**168281747**	Seite 1 von **16** *Page 1 of 16*
Kunden-Referenz-Nr.: *Client reference no.:*	**N/A**	**Auftragsdatum:** *Order date:*	2020-09-10	
Auftraggeber: *Client:*	Shanghai ChargeDot New Energy Technology Co., Ltd 23Floor, No. 19 Building, No. 1515, Gumei Road, Xuhui District,Shanghai			
Prüfgegenstand: *Test item:*	Module: Bluetooth Module Host: Terra AC Wallbox Charging Station			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	Module: LSD1BT-STSHLZ02 Host:Terra AC W7-P8-R-C-0 Terra AC W7-P8-R-D-0 Terra AC W7-P8-R-CD-0 Terra AC W7-P8-RD-MD-0 Terra AC W7-P8-RD-MCD-0			
Auftrags-Inhalt: *Order content*:	Permissive Change report			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209	RSS-247 Issue 2 RSS-Gen Issue 5		
Wareneingangsdatum: *Date of sample receipt:*	2020-09-15			
Prüfmuster-Nr.: *Test sample no:*	A002892512-001~005			
Prüfzeitraum: *Testing period:*	2020-09-15 - 2020-11-09			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: *tested by:*	X Jonathan Li	**genehmigt von:** *authorized by:*	X
Datum: *Date:* 2020-11-09		**Ausstellungsdatum:** *Issue date:* 2020-11-09	
Stellung / *Position:*	Jonathan Li / Project Manager	**Stellung** / *Position:*	Sam Lin /Technical Certifier
Sonstiges / *Other:*	FCC ID: 2AWGLLSD1BTSTSHLZ02 IC: 26407-1BTSTSHLZ02 HVIN: LSD1BT-STSHLZ02		

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.
V05

TEST SUMMARY

5.1.1 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1. GENERAL REMARKS 4
1.1 COMPLEMENTARY MATERIALS 4
2. TEST SITES 4
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1. GENERAL REMARKS

1.1 COMPLEMENTARY MATERIALS

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test results of maximum conducted output power and radiated spurious emissions and conducted emission

Appendix B: Photographs of the Test Set-up

2. TEST SITES

2.1 TEST FACILITIES

TÜV Rheinland (Shenzhen) Co., Ltd.

Address: No. 362, Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

CNAS accreditation certification number: L3080

A2LA accreditation certification number: 5162.01

2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

Description	**Manufacturer**	**Model**	**Serial No.**	**Calibrated until** (DD.MM.YYYY)
Radio Spectrum Testing				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	166305	10.09.2021
Signal Analyzer	Rohde & Schwarz	FSV 40	101475	10.09.2021
Vector Signal Generator	Rohde & Schwarz	SMBV100A	263466	10.09.2021
Signal Generator	Rohde & Schwarz	SMB100A	181041	17.12.2020
High Speed Power Supply	KEITHLEY	2303	4080052	17.12.2020
RF Control Unit	Tonscend	JS0806-1	19H8060192	N/A

Unwanted Emission Testing (SAC)				
EMI Test Receiver	R&S	ESR 7	102021	11.08.2021
Signal Analyzer	R&S	FSV 40	101439	10.08.2021
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	10.08.2021
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	10.08.2021
Amplifier	R&S	SCU-18F	180070	10.08.2021
Amplifier	R&S	SCU40A	100475	10.09.2021
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	08.08.2022
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	08.08.2022
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	08.08.2022
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2022
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2021
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	06.07.2021
Conducted Emission Testing				
EMI Test Receiver	R&S	ESR3	102428	16.08.2021
Artificial Mains Network	R&S	ENV216	102333	16.08.2021
EMC32 test software	R&S	EMC32(Ver.1 0.50.01)	N/A	N/A
Click test software	R&S	Click Rate Analyzer 2.4.2	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
RF Power (conducted)	±2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	±6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	±3.70 dB / ±3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	±4.52 dB
Radiated Emission (3m SAC), above 1000MHz	±4.37 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd.. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. GENERAL PRODUCT INFORMATION

3.1 GENERAL DESCRIPTION

The EUT is Terra AC Wallbox Charging Station which supports Wi-Fi(2.4GHz), WCDMA, LTE and RFID wireless technology.

The above models are the similar in electrical characteristics, the differences lies on type designation and mechanical aspects as below:

Model	Wireless module	Display module (YES/NO)	Ethernet functionality (YES/NO)	Metering module (YES/NO)
Terra AC W7-P8-RD-MCD-0	RFID,BT,WIFI, 4G LTE module.	YES	YES	YES
Terra AC W7-P8-R-CD-0	RFID,BT,WIFI, 4G LTE module.	NO	YES	NO
Terra AC W7-P8-R-C-0	RFID,BT,WIFI, 4G LTE module.	NO	YES	NO
Terra AC W7-P8-RD-MD-0	RFID,BT,WIFI module.	YES	NO	YES
Terra AC W7-P8-R-D-0	RFID,BT,WIFI module.	NO	YES	NO

Compared with them, the model Terra AC W7-P8-RD-MCD-0 has the most components and functions. Therefore, the tests were performed on the model Terra AC W7-P8-RD-MCD-0 as the worst case

sample to demonstrate the rule compliace.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 TECHNICAL DATA

Table 2: Rating of EUT

General Information of EUT	Description
Kind of Equipment:	Terra AC Wallbox Charging Station
Type Designation:	Terra AC W7-P8-R-C-0 Terra AC W7-P8-R-D-0 Terra AC W7-P8-R-CD-0 Terra AC W7-P8-RD-MD-0 Terra AC W7-P8-RD-MCD-0
Trade Mark:	ABB
Application of Equipment:	Combined Radio Equipment
Operating Voltage:	Single phase 240 VAC
Operating Temperature Range:	-30°C ~ +50°C

Table 3: Technical Specification of EUT

Mechanical Data	
Dimensions (H x W x D)	110 x 195 x 320mm
Electrical Data – Charging mode	
Input	Description
Input voltage range	Single phase 240 VAC, maximum 264 VAC
Output	Description
Maximum output power	Max. 19 kW
Output voltage range	110 - 240V AC
connection type	Type 1 cable according to SAE J1772
Environment Data	
Environmental	Description
Installtion	Wall mounted
Temperature range – Operation	-30 °C to +50 °C
Wireless Access	
WCDMA	Band II, Band IV,Band V, data service only
LTE	Band 2, Band 4, Band 5, Band 12, Band 13, Band 14, Band 66, Band 71, data service only
2. 4G Wi-Fi	2400~2483.5GHz
Bluetooth	2400~2483.5GHz, BLE 5.0
RFID	13.56 MHz

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	**2402.00**	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	**19**	**2440.00**	29	2460.00	**39**	**2480.00**

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

A. On, Bluetooth communication link established
   1) Bluetooth operating
      i. Low channel
      ii. Middle channel
      iii. High channel

B. Idle

C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

☒ User Manual
☒ Circuit Diagram
☒ Block Diagram
☒ Schematics
☒ Model Difference Letter
☒ Rating Label
☒ PCB Layout
☒ Photo Document
☒ Parts List

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.
Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model Terra AC W7-P8-RD-MCD-0 in this report.

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 5: Cables used during test

Port	Quantity	Length (m)	Connector	Type of Cable
Laptop	Lenovo	T480	PF-16A6N8	N/A

Table 6: Auxiliary Equipment used during test

Name	Model	Manufacturer	S/N
--	--	--	--

4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

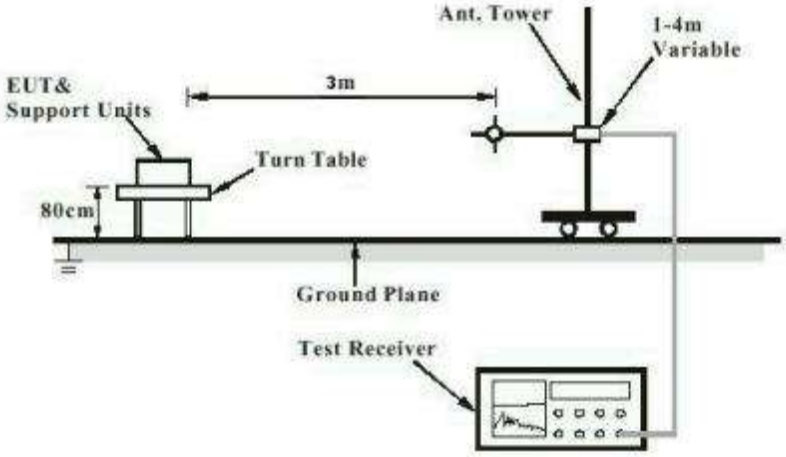


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

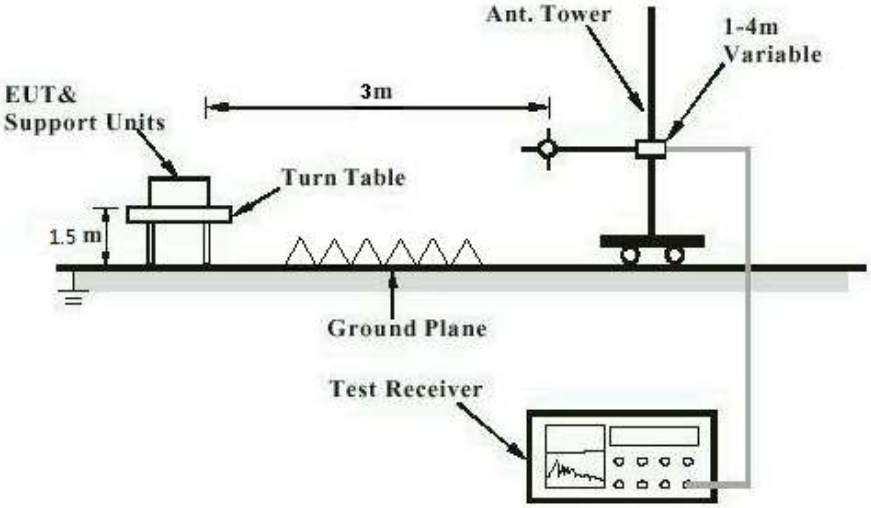
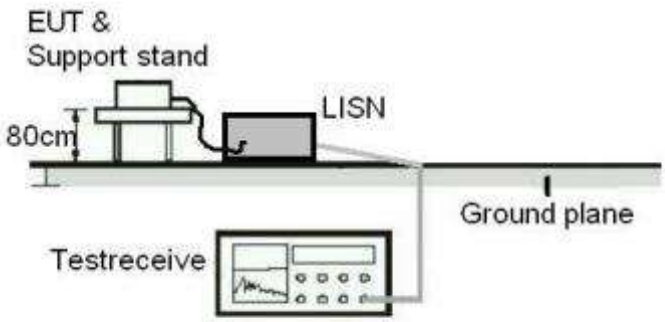


Diagram of Measurement Configuration for Mains Conduction Measurement



5. TEST RESULTS

5.1.1 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(3)
		RSS-247 Clause 5.4(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2020-09-15 - 2020-11-09
Input voltage	:	AC120/60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.2 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d)
		RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013&ANSI C63.10: 201315
Limits	:	FCC Part 15.209(a) RSS-Gen Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2020-09-15 - 2020-11-09
Input voltage	:	AC240/60Hz
Operation mode	:	A
Ambient temperature	:	23 ℃
Relative humidity	:	47 %
Atmospheric pressure	:	**101** kPa

Remark:Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.3 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) RSS-Gen Clause 8.8
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2020-09-15 - 2020-11-09
Input voltage	:	AC240/60Hz
Operation mode	:	A
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

6. LIST OF TABLES

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Table 3: Technical Specification of EUT 8
Table 4: RF Channel and Frequency of Bluetooth Low Energy 8
Table 5: Cables used during test 10
Table 6: Auxiliary Equipment used during test 10

========== END OF REPORT ==========

APPENDIX A: TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER AND RADIATED SPURIOUS EMISSIONS AND CONDUCTED EMISSION

APPENDIX A.1: MAXIMUM CONDUCTED OUTPUT POWER 2
APPENDIX A.2: RADIATED SPURIOUS EMISSIONS 3
BELOW 1GHZ (WORST CASE) 3
ABOVE 1GHZ 5
APPENDIX A.2: CONDUCTED EMISSIONS 9

APPENDIX A.1: MAXIMUM CONDUCTED OUTPUT POWER

Band	Bluetooth(LE-GFSK)		
Channel	0	19	39
Frequency	2402	2440	2480
Peak.Power	6.59	6.41	6.46

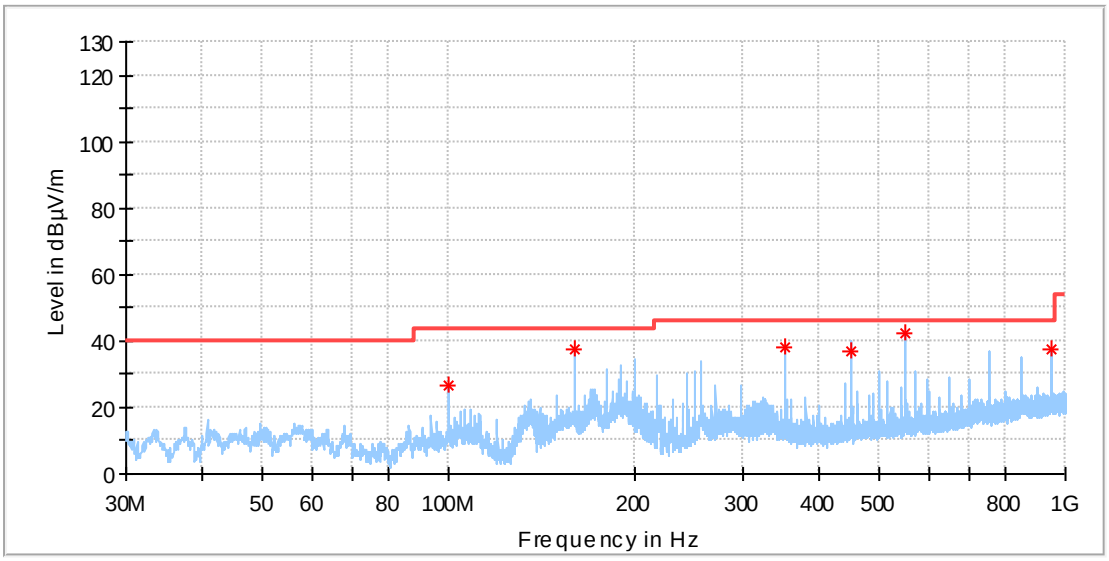
APPENDIX A.2: RADIATED SPURIOUS EMISSIONS

Below 1GHz (Worst case)

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
99.985500	26.64	---	43.50	16.86	100.0	H	84.0	-19.0
159.980000	37.50	---	43.50	6.00	100.0	H	74.0	-21.8
350.003000	38.13	---	46.00	7.87	100.0	H	224.0	-14.8
449.961500	37.12	---	46.00	8.88	100.0	H	154.0	-12.9
550.065500	42.18	---	46.00	3.82	100.0	H	337.0	-11.0
950.093500	37.36	---	46.00	8.64	100.0	H	0.0	-4.4

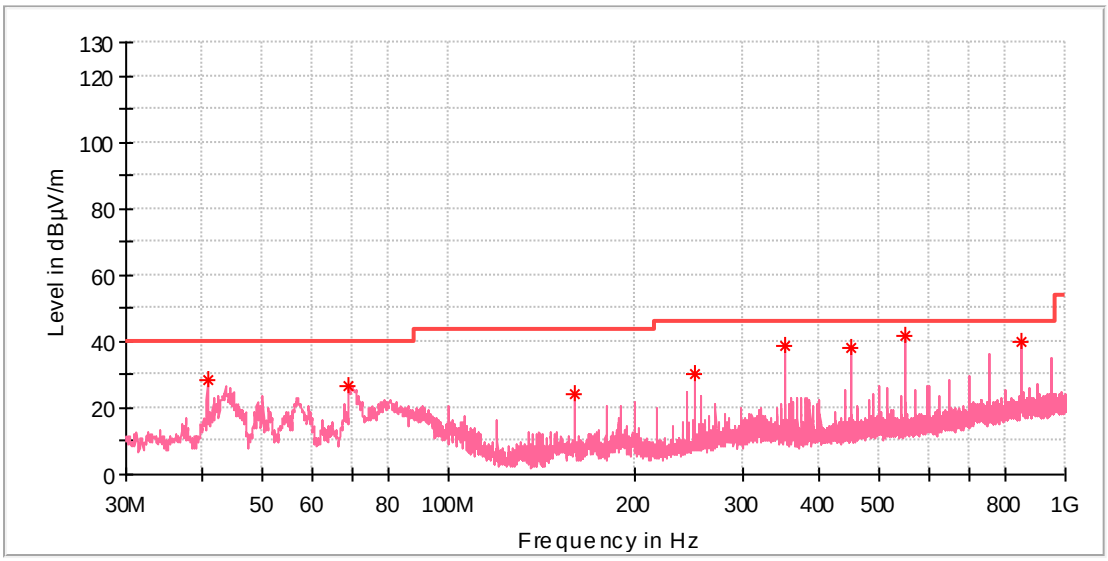
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:47%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.670000	28.42	---	40.00	11.58	100.0	V	0.0	-19.9
68.800000	26.87	---	40.00	13.13	100.0	V	33.0	-21.4
159.980000	24.47	---	43.50	19.03	100.0	V	352.0	-21.8
249.996000	30.06	---	46.00	15.94	100.0	V	325.0	-17.4
350.003000	38.48	---	46.00	7.52	100.0	V	200.0	-14.8
450.058500	38.08	---	46.00	7.92	100.0	V	122.0	-12.9
550.017000	41.91	---	46.00	4.09	100.0	V	278.0	-11.0
850.086500	39.66	---	46.00	6.34	100.0	V	210.0	-5.5

Final_Result

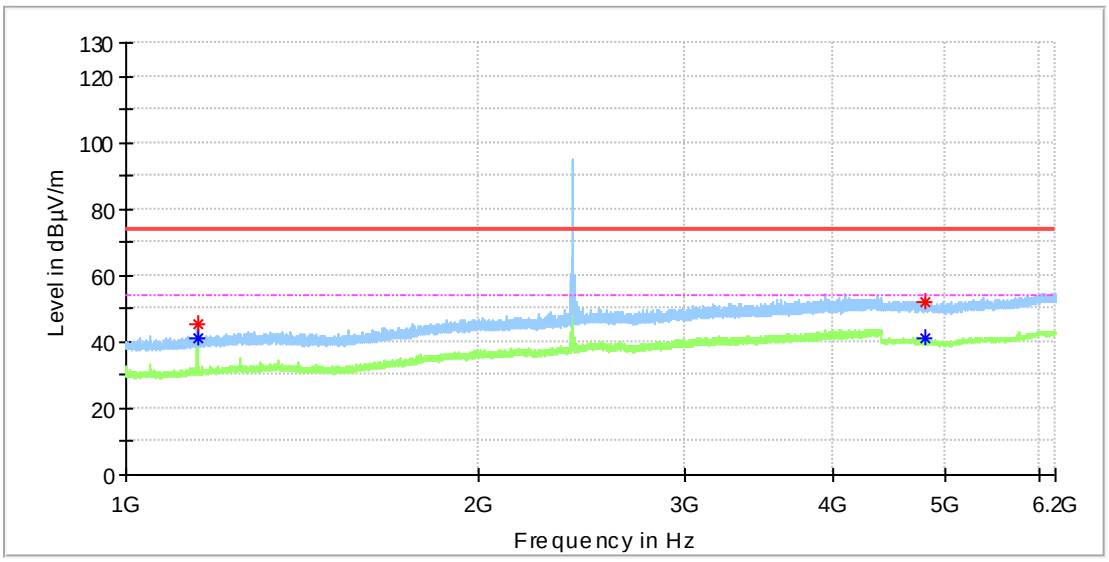
Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Above 1GHz

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1150.025000	45.29	---	74.00	28.71	100.0	H	334.0	0.8
1150.025000	---	41.12	54.00	12.88	100.0	H	334.0	0.8
4803.500000	51.75	---	74.00	22.25	100.0	H	109.0	13.6
4804.500000	---	40.97	54.00	13.03	100.0	H	207.0	13.6

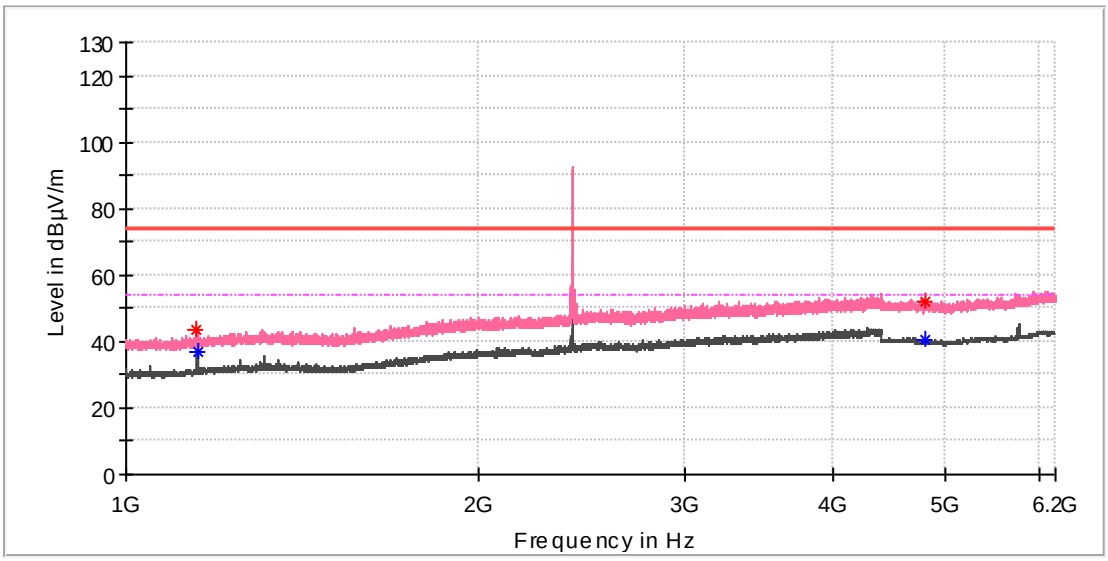
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1149.600000	43.33	---	74.00	30.67	100.0	V	74.0	0.8
1149.812500	---	37.18	54.00	16.82	100.0	V	74.0	0.8
4804.000000	---	40.81	54.00	13.19	100.0	V	124.0	13.6
4807.000000	51.95	---	74.00	22.05	100.0	V	83.0	13.6

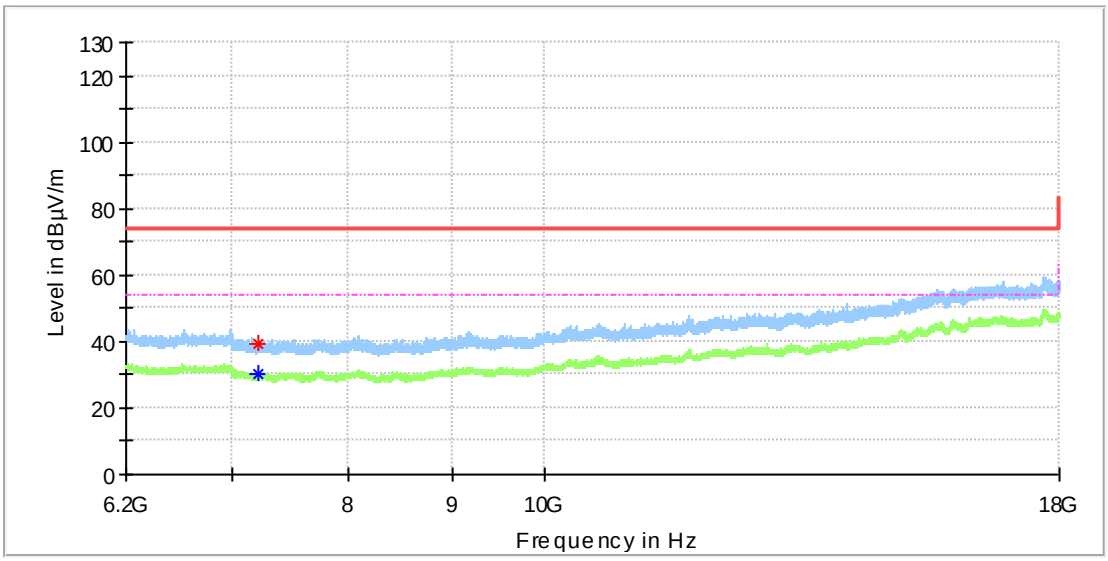
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.491667	39.36	---	74.00	34.64	100.0	H	98.0	8.8
7214.800000	---	30.04	54.00	23.96	100.0	H	15.0	8.7

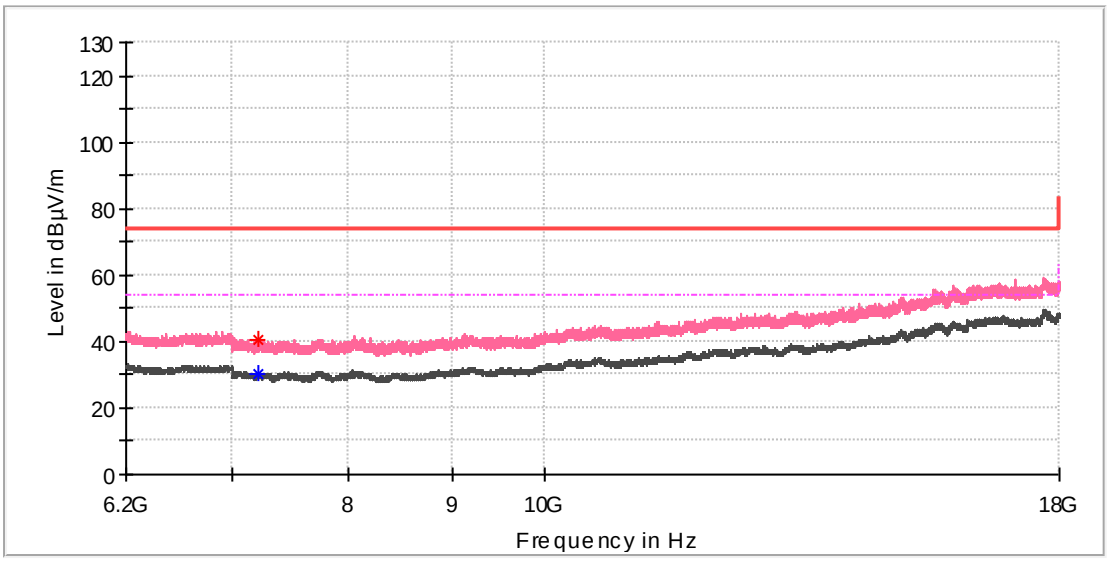
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Model:	TERRA AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage::	AC240V/60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.375000	---	30.12	54.00	23.88	100.0	V	233.0	8.7
7211.358333	40.46	---	74.00	33.54	100.0	V	35.0	8.7

Final_Result

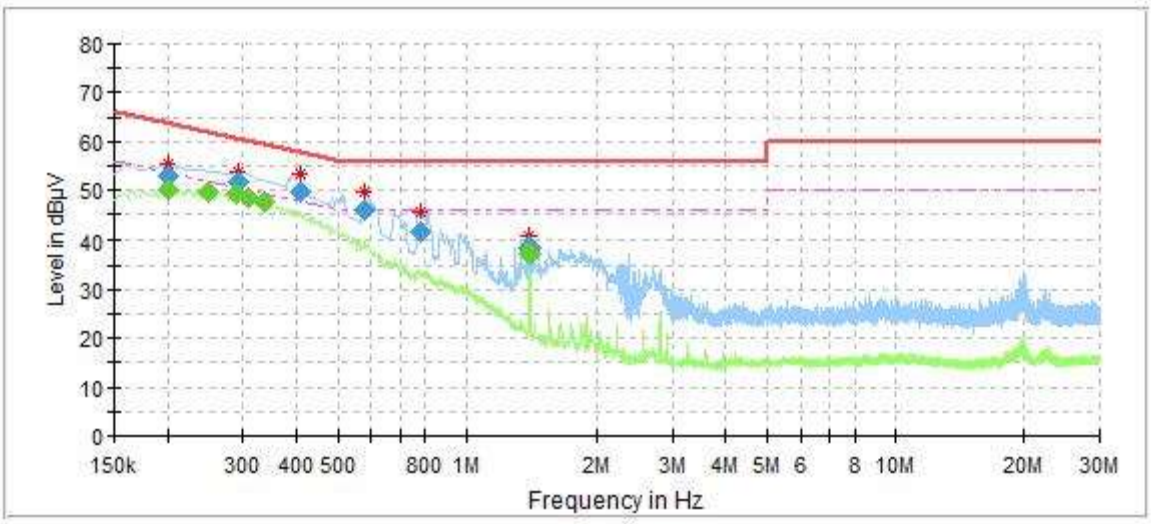
Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

APPENDIX A.3: Conducted EMISSIONS

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Order No.:	168281747 20
Model:	Terra AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage:	AC240V/60Hz
Test By:	Mac Xie
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.200500	---	49.95	53.86	3.91	L1	9.6
0.200500	55.24	---	63.53	8.29	L1	9.6
0.248500	---	49.42	51.37	1.95	L1	9.6
0.288500	---	48.72	50.19	1.47	L1	9.6
0.292500	53.75	---	60.64	6.89	L1	9.6
0.308500	---	48.07	49.66	1.58	L1	9.7
0.336500	---	47.33	48.96	1.63	L1	9.7
0.408500	53.43	---	57.73	4.30	L1	9.7
0.578500	49.44	---	56.00	6.56	L1	9.7
0.778500	45.48	---	56.00	10.52	L1	9.7
1.406500	---	36.99	46.00	9.01	L1	9.7
1.406500	40.76	---	56.00	15.24	L1	9.7

Final_Result

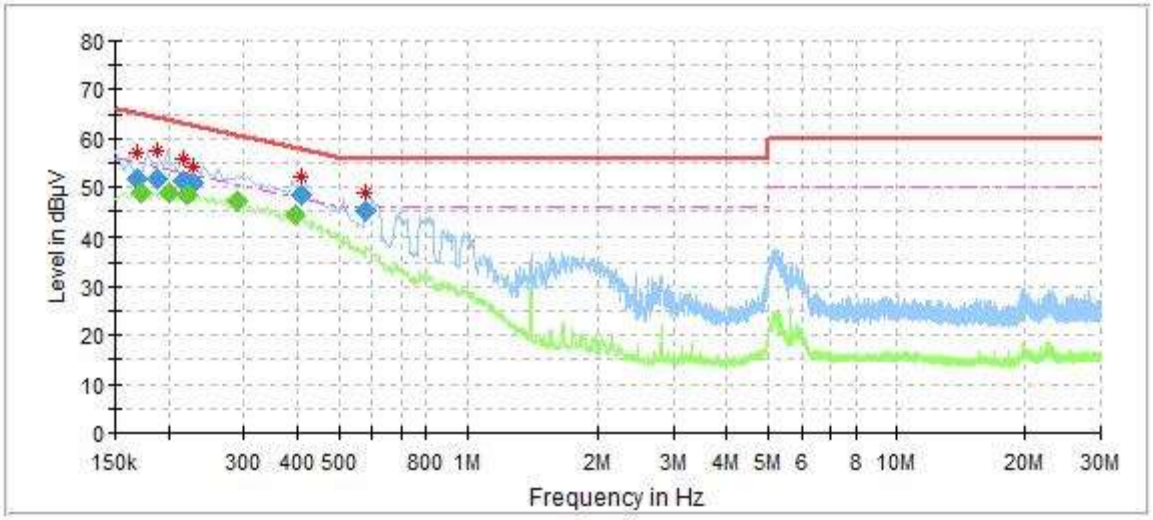
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.200500	52.89	---	63.59	10.70	200.0	9.000	L1	9.6
0.200500	---	50.07	53.59	3.52	200.0	9.000	L1	9.6
0.248500	---	49.57	51.81	2.24	200.0	9.000	L1	9.6

0.288500	---	49.08	50.57	1.49	200.0	9.000	L1	9.6
0.292500	51.50	---	60.45	8.95	200.0	9.000	L1	9.6
0.308500	---	48.39	50.01	1.62	200.0	9.000	L1	9.6
0.336500	---	47.73	49.29	1.56	200.0	9.000	L1	9.7
0.408500	49.75	---	57.68	7.93	200.0	9.000	L1	9.7
0.578500	46.12	---	56.00	9.88	200.0	9.000	L1	9.7
0.778500	41.60	---	56.00	14.40	200.0	9.000	L1	9.7
1.406500	38.47	---	56.00	17.53	200.0	9.000	L1	9.7
1.406500	---	37.48	46.00	8.52	200.0	9.000	L1	9.7

Test Report

EUT Information

EUT Name:	Terra AC Wallbox Charging Station
Order No.:	168281747 20
Model:	Terra AC W7-P8-RD-MCD-0
Test Mode:	Bluetooth(BLE)
Test Voltage:	AC240V/60Hz
Test By:	Mac Xie
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.168500	57.21	---	64.58	7.36	N	9.6
0.172500	---	48.76	54.21	5.45	N	9.6
0.172500	---	48.94	55.16	6.22	N	9.6
0.188500	57.50	---	63.69	6.19	N	9.6
0.200500	---	48.61	53.05	4.44	N	9.6
0.216500	55.69	---	63.05	7.36	N	9.6
0.220500	---	48.27	52.31	4.03	N	9.6
0.228500	54.12	---	62.03	7.90	N	9.6
0.288500	---	46.67	50.19	3.51	N	9.6
0.396500	---	44.00	47.65	3.65	N	9.7
0.408500	51.96	---	57.65	5.69	N	9.7
0.578500	48.72	---	56.00	7.28	N	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.168500	51.67	---	65.03	13.37	200.0	9.000	N	9.6
0.172500	---	48.80	54.84	6.04	200.0	9.000	N	9.6
0.188500	51.50	---	64.10	12.60	200.0	9.000	N	9.6
0.200500	---	48.63	53.59	4.96	200.0	9.000	N	9.6
0.216500	51.17	---	62.95	11.79	200.0	9.000	N	9.6
0.220500	---	48.38	52.80	4.42	200.0	9.000	N	9.6

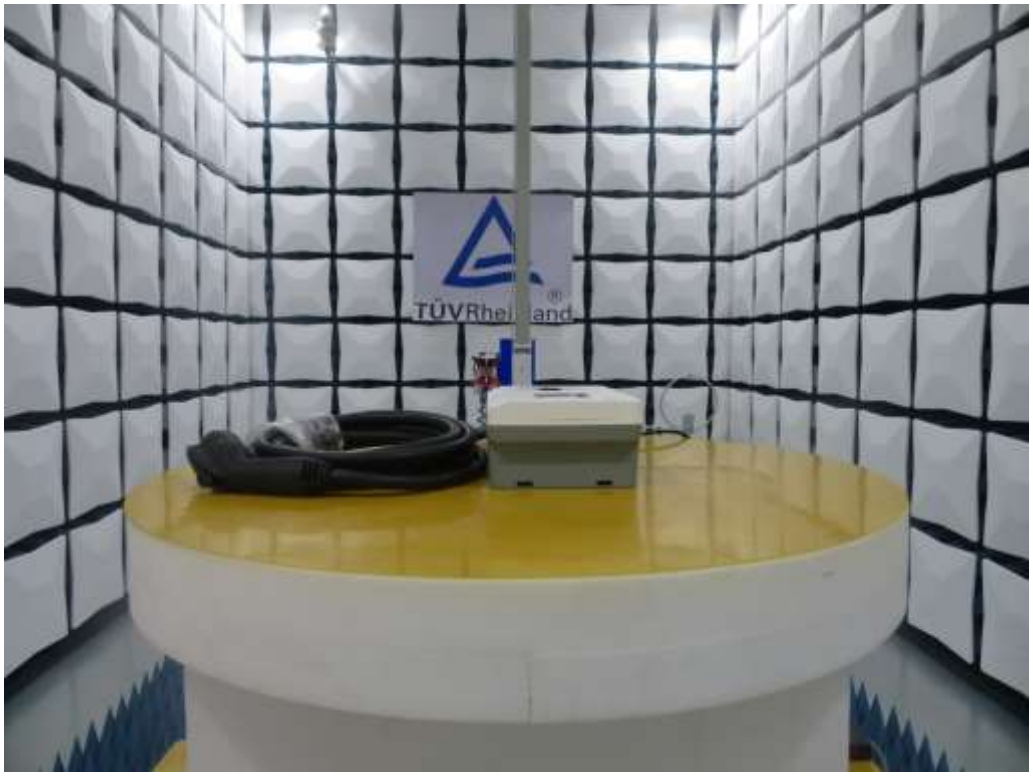
0.228500	50.97	---	62.50	11.53	200.0	9.000	N	9.6
0.288500	---	47.09	50.57	3.48	200.0	9.000	N	9.6
0.396500	---	44.20	47.93	3.73	200.0	9.000	N	9.7
0.408500	48.34	---	57.68	9.34	200.0	9.000	N	9.7
0.578500	45.00	---	56.00	11.00	200.0	9.000	N	9.7

Appendix B: Photographs of the Test Set-Up

APPENDIX B: PHOTOGRAPHS OF THE TEST SET-UP **1**
PHOTOGRAPH 1: SET-UP FOR RADIATED SPURIOUS EMISSION, 30MHZ - 1GHZ 2
PHOTOGRAPH 2: SET-UP FOR RADIATED SPURIOUS EMISSION, ABOVE 1G 2
PHOTOGRAPH 3: SET-UP FOR CONDUCTED EMISSION 3

Photograph 1: Set-up for Radiated Spurious Emission, 30MHz - 1GHz

Photograph 2: Set-up for Radiated Spurious Emission, Above 1G



Photograph 3: Set-up for Conducted Emission