

Prüfbericht-Nr.: Test report no.:	CN2069HI 002	Auftrags-Nr.: Order no.:	168281747	Seite 1 von 17 Page 1 of 17
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 RSS-247 Issue 2 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-130 Issue 2 CFR47 FCC Part 22 RSS-132 Issue 3 CFR47 FCC Part 24 RSS-133 Issue 6 CFR47 FCC Part 27 RSS-139 Issue 3 CFR47 FCC Part 90 RSS-140 Issue 1			
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:		genehmigt von: authorized by:		
X <u>Jonathan Li</u>		X <u>Sam Lin</u>		
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:	The host contains four modules as below information: FCC ID: 2AWGLSD1BTSTSHLZ02 IC: 26407-1BTSTSHLZ02 FCC ID: XMR201909EC25AFX IC: 10224A-2019EC25AFX FCC ID: 2ACSV-HF-LPT230 IC: 12243A-HFLPT230 FCC ID: 2AWGLSD1NFS39NFC0 IC: 26407-1NFS39NFC0			
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.				



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TEST SUMMARY

5.1.1 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.2 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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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 Conducted Emission and Radiated Emission for collocation operation

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)
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 basis 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 aspectsas 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 ^{Note 1}	Band II, Band IV,Band V, data service only		
LTE ^{Note 1}	Band 2, Band 4, Band 5, Band 12, Band 13, Band 14, Band 66, Band 71, data service only		
2. 4G Wi-Fi ^{Note 2}	2400~2483.5GHz		
Bluetooth ^{Note 3}	2400~2483.5GHz, BLE 5.0		
RFID ^{Note 4}	13.56 MHz		
Note 1: The certified module(EC25-AFX) Integrated in the device have been granted by FCC ID: XMR201909EC25AFX, IC: 10224A-2019EC25AFX.			
Note 2: The certified module(HF-LPT230) Integrated in the device have been granted by FCC ID: 2ACSV-HF-LPT230, IC: 12243A-HFLPT230.			
Note 3: The certified module(LSD1BT-STSHLZ02) Integrated in the device have been granted by FCC ID: 2AWGLLSD1BTSTSHLZ02, C: 26407-1BTSTSHLZ02.			
Note 4: The certified module(LSD1NFST39NFC0) Integrated in the device have been granted by FCC ID: 2AWGLLSD1NFST39NFC0, C: 26407-1NFST39NFC0			
Antenna informatton:			
Operation Mode	Antenna type	Antenna Gain (dBi)	Remark
Bluetooth(BLE)	PCB antenna	0.82	Same as the certified module
2.4G Wi-Fi	PCB antenna	-0.35	Same as the certified module
WCDMA Band II	Dipole Antenna	-2	
WCDMA Band VI	Dipole Antenna	-3	
WCDMA Band V	Dipole Antenna	-3	
LTE Band 2	Dipole Antenna	-2	
LTE Band 4	Dipole Antenna	-2.5	
LTE Band 5	Dipole Antenna	-3	
LTE Band 12	Dipole Antenna	-3	
LTE Band 13	Dipole Antenna	-3	
LTE Band 14	Dipole Antenna	-3	
LTE Band 66	Dipole Antenna	-2	
LTE Band 71	Dipole Antenna	-3	
RFID	PCB antenna	/	Same as the certified module

Table 4: WCDMA Operating Frequency Range and Channel Bandwidth

Frequency Band(s)	Frequency Range		Channel Bandwidth (MHz)
	Transmitting f_{UL} (MHz)	Receiving f_{DL} (MHz)	
Band II	1850 ~ 1910	1930 ~ 1980	5
Band IV	1710 ~ 1755	2110 ~ 2155	5
Band V	824 ~ 849	869 ~ 894	5

Table 5: LTE Operating Frequency Range and Channel Bandwidth

Frequency Band(s)	Frequency Range		Channel Bandwidth (MHz)
	Transmitting f_{UL} (MHz)	Receiving f_{DL} (MHz)	
Band 2	1850 ~ 1910	1930 ~ 1980	1.4, 3, 5, 10, 15, 20
Band 4	1710 ~ 1755	2110 ~ 2155	1.4, 3, 5, 10, 15, 20
Band 5	824 ~ 849	869 ~ 894	1.4, 3, 5, 10
Band 12	699 ~ 716	729 ~ 746	1.4, 3, 5, 10
Band 13	777 ~ 787	746 ~ 756	5, 10
Band 14	788 ~ 798	758 ~ 768	5, 10
Band 66	1710 ~ 1780	2110 ~ 2200	1.4, 3, 5, 10, 15, 20
Band 71	663 ~ 698	617 ~ 652	5, 10, 15, 20

Table 6: List of Radio Frequency Channel, 802.11 b/g/n 20M bandwidth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2412.00	5	2432.00	9	2452.00
2	2417.00	6	2437.00	10	2457.00
3	2422.00	7	2442.00	11	2462.00
4	2427.00	8	2447.00	--	--

Table 7: List of Radio Frequency Channel, 802.11 n 40M bandwidth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
--	--	5	2432.00	9	2452.00
--	--	6	2437.00	--	--
3	2422.00	7	2442.00	--	--
4	2427.00	8	2447.00	--	--

Table 8: 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, communication link established, Simultaneous-transmission operations
 - 1) RFID+Bluetooth+2.4GHz Wi-Fi +WCDMA operating
 - 2) RFID+Bluetooth+2.4GHz Wi-Fi +LTE operating
- B. Idle
- C. Off

3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS

Refer to the Circuit Diagram.

3.5 SUBMITTED DOCUMENTS

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

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 , ANSI C63.4: 2014 and ANSI C63.26: 2015 .

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 9: Cables used during test

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

Table 10: 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)

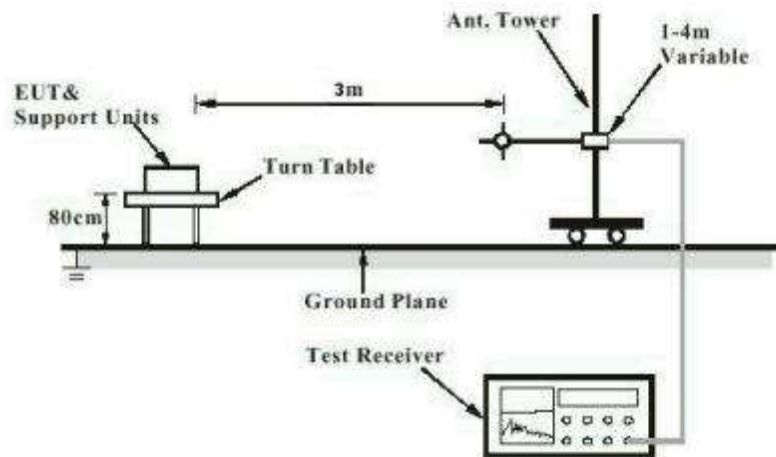


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

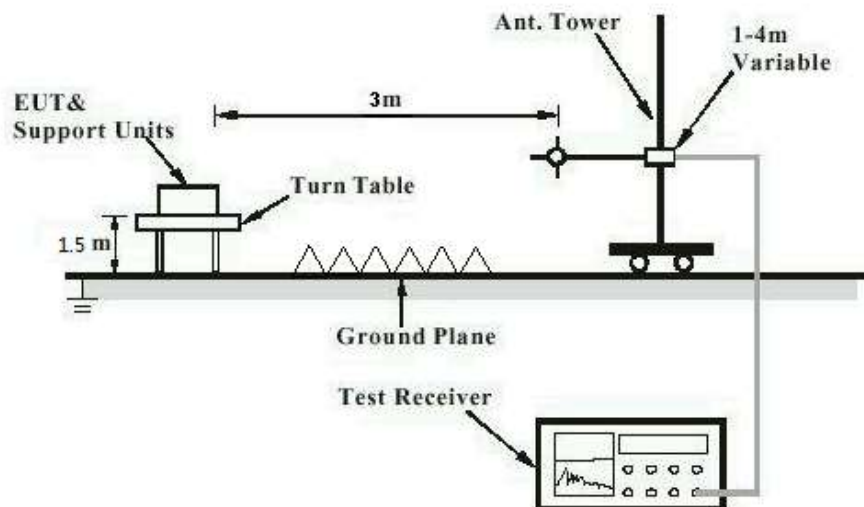
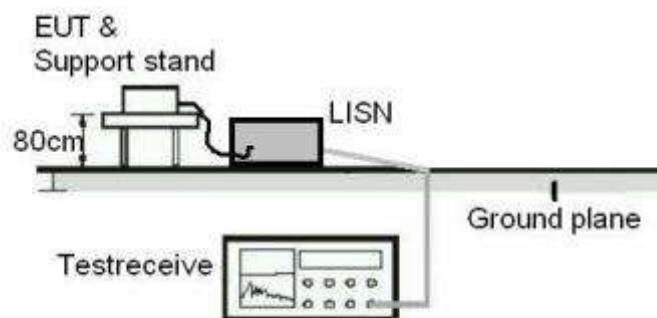


Diagram of Measurement Configuration for Mains Conduction Measurement



5. TEST RESULTS

5.1.1 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard

: FCC Part 15.247(d)
CFR47 FCC Part 22
CFR47 FCC Part 24
CFR47 FCC Part 27
CFR47 FCC Part 90
RSS-247 Clause 3.3
RSS-130 Issue 2
RSS-132 Issue 3
RSS-133 Issue 6
RSS-139 Issue 3
RSS-140 Issue 1

Basic standard

: ANSI C63.10: 2013&ANSI C63.26: 2015

Limits

: FCC Part 15.209(a)
Section 22.917(a) of 47 CFR FCC Part 22 & Section 5.5 of RSS-132 Issue 3
Section 24.238(a) of 47 CFR FCC Part 24 & Section 6.5 of RSS-133 Issue 6
“the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB”
Section 27.53(c)/(g)/(h)/(m) of 47 CFR FCC Part 27 & Section 4.7.1 of RSS-130 Issue 2 & Section 6.6 of RSS-139 Issue 3
“the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB”
Section 5.6.2 of RSS-195 Issue 2
Section 4.5 (b) of RSS-199 Issue 3
Section 90.691(a) of 47 CFR FCC Part 90
“for any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz”
Section 90.543(a) of 47 CFR FCC Part 90 & Section 4.4 (b) of RSS-140 Issue 1
On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least $43 + 10 \log(P)$

Section 22.917(a) of 47 CFR FCC Part 22 & Section 5.5 of RSS-132 Issue 3
 Section 24.238(a) of 47 CFR FCC Part 24 & Section 6.5 of RSS-133 Issue 6
 “the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB”
 Section 27.53(c)/(g)/(h)/(m) of 47 CFR FCC Part 27 & Section 4.7.1 of RSS-130 Issue 2 & Section 6.6 of RSS-139 Issue 3
 “the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB”
 Section 5.6.2 of RSS-195 Issue 2
 Section 4.5 (b) of RSS-199 Issue 3
 Section 90.691(a) of 47 CFR FCC Part 90
 “for any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz”
 Section 90.543(a) of 47 CFR FCC Part 90 & Section 4.4 (b) of RSS-140 Issue 1
 On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least $43 + 10 \log(P)$

Kind of test site

: 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2020-09-15 - 2020-11-09
 Input voltage : AC120/60Hz
 Operation mode : A
 Ambient temperature : 23 °C
 Relative humidity : 47 %
 Atmospheric pressure : 101.6 kPa

Remark:

1. The limit calculation:
 Limit = P_{Meas} (dBm) – $[43+10\log(P_{Meas})]$ = -13 dBm
2. Operational Configurations: Set RFID, Bluetooth, WIFI module in test mode and use base station simulator to configure 4G LTE function in specific frequency bands, RF channels, and transmitter power levels

For the measurement records, refer to the appendix A.

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5.1.2 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003
Basic standard	: ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003 Table 2
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2020-09-15 - 2020-11-09
Input voltage	: AC120/60Hz
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: 24 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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

**APPENDIX A: TEST RESULTS OF CONDUCTED EMISSION AND
RADIATED EMISSION FOR COLLOCATION**

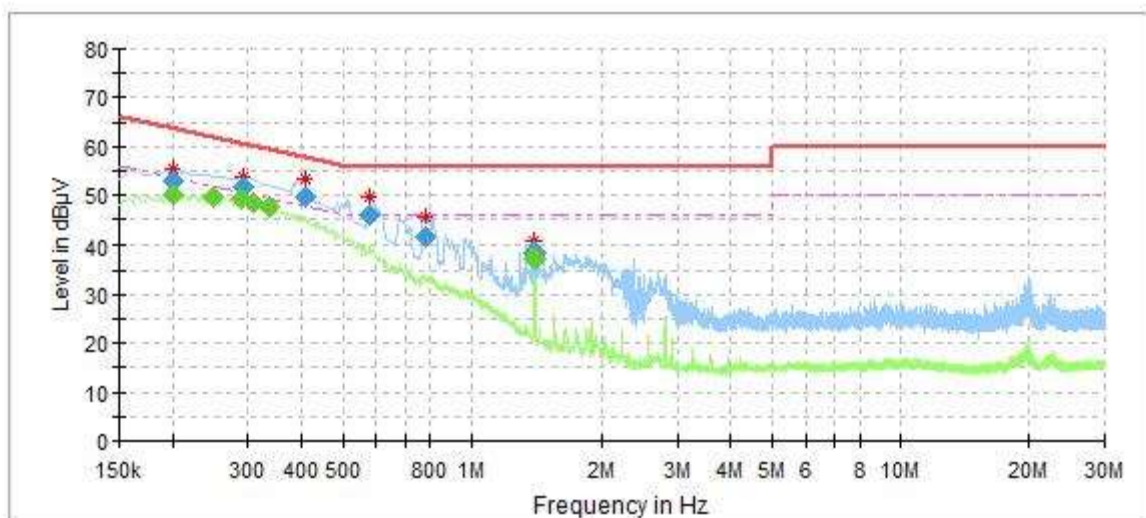
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APPENDIX A.2: RADIATED SPURIOUS EMISSIONS	6
RFID+BT+WI-FI+WCMA BAND 2	8
RFID+BT+WI-FI+WCMA BAND 4	12
RFID+BT+WI-FI+WCMA BAND 5	16
RFID+BT+WI-FI+LTE BAND 2.....	20
RFID+BT+WI-FI+LTE BAND 4.....	22
RFID+BT+WI-FI+LTE BAND 12.....	26
RFID+BT+WI-FI+LTE BAND 13.....	30
RFID+BT+WI-FI+LTE BAND 14.....	34
RFID+BT+WI-FI+LTE BAND 66.....	38
RFID+BT+WI-FI+LTE BAND 71.....	42

APPENDIX A.1: CONDUCTED EMISSION

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: BT+WIFI+RFID+WCDMA
Test Voltage: AC 240V/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

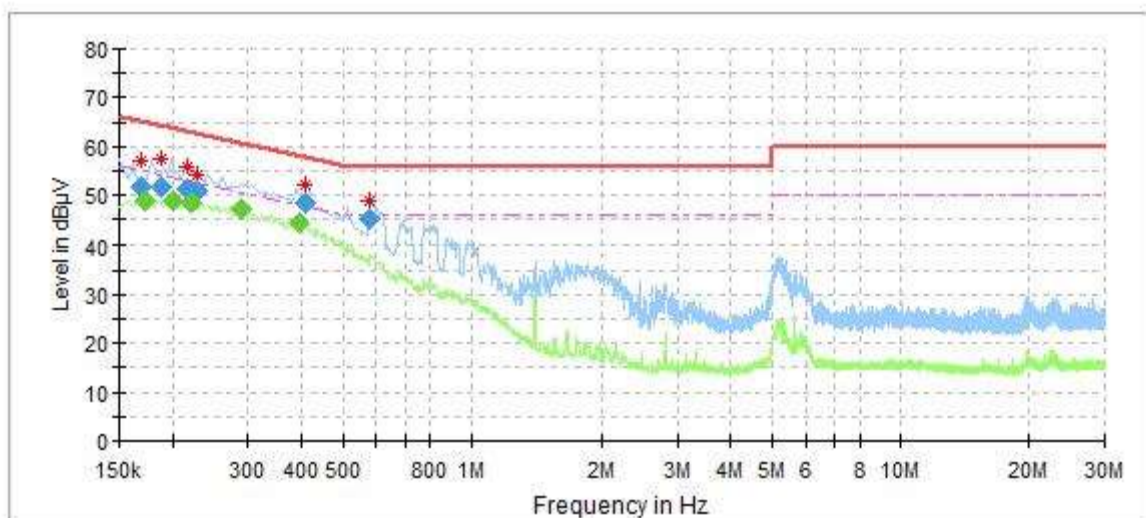
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.200500	52.89	---	63.59	10.70	200.0	9.000	L1	9.6
0.200500	---	50.07	53.59	3.52	200.0	9.000	L1	9.6

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: BT+WIFI+RFID+WCDMA
Test Voltage: AC 240V@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

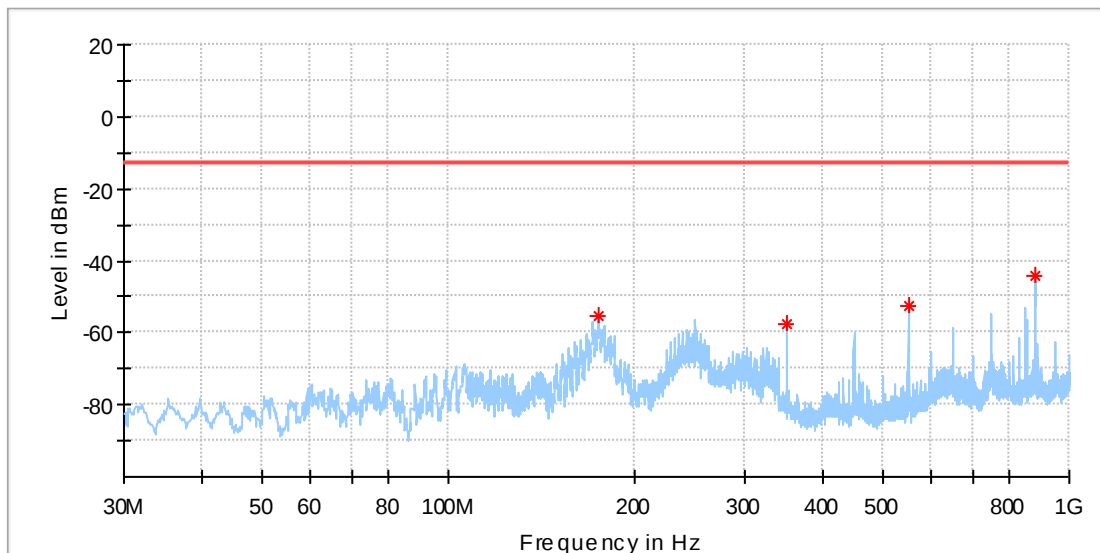
0.228500	50.97	---	62.50	11.53	200.0	9.000	N	9.6
0.288500	---	47.09	50.57	3.48	200.0	9.000	N	9.6
0.396500	---	44.20	47.93	3.73	200.0	9.000	N	9.7
0.408500	48.34	---	57.68	9.34	200.0	9.000	N	9.7
0.578500	45.00	---	56.00	11.00	200.0	9.000	N	9.7

APPENDIX A.2: RADIATED SPURIOUS EMISSIONS

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+WCMA Band V-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
174.530000	-55.35	---	-13.00	42.35	100.0	H	264.0	-119.8
349.978750	-57.34	---	-13.00	44.34	100.0	H	223.0	-111.3
550.041250	-52.36	---	-13.00	39.36	100.0	H	62.0	-109.2
881.296250	-43.99	---	-13.00	30.99	100.0	H	354.0	-101.5

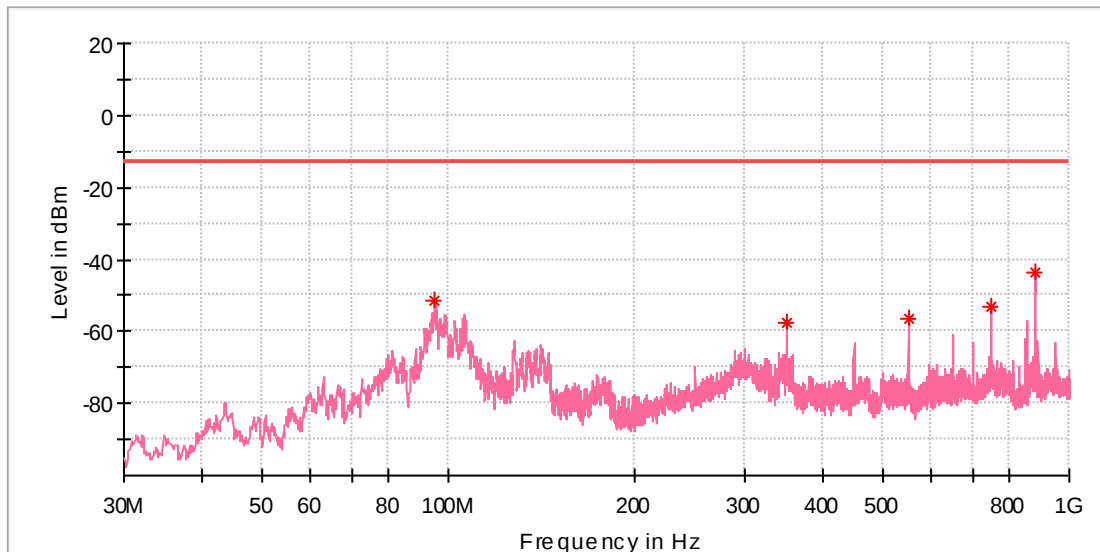
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band V-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
95.232500	-51.34	---	-13.00	38.34	100.0	V	240.0	-99.9
349.978750	-57.41	---	-13.00	44.41	100.0	V	246.0	-110.8
550.041250	-56.48	---	-13.00	43.48	100.0	V	320.0	-108.6
750.103750	-53.00	---	-13.00	40.00	100.0	V	210.0	-102.2
881.660000	-43.60	---	-13.00	30.60	100.0	V	269.0	-101.8

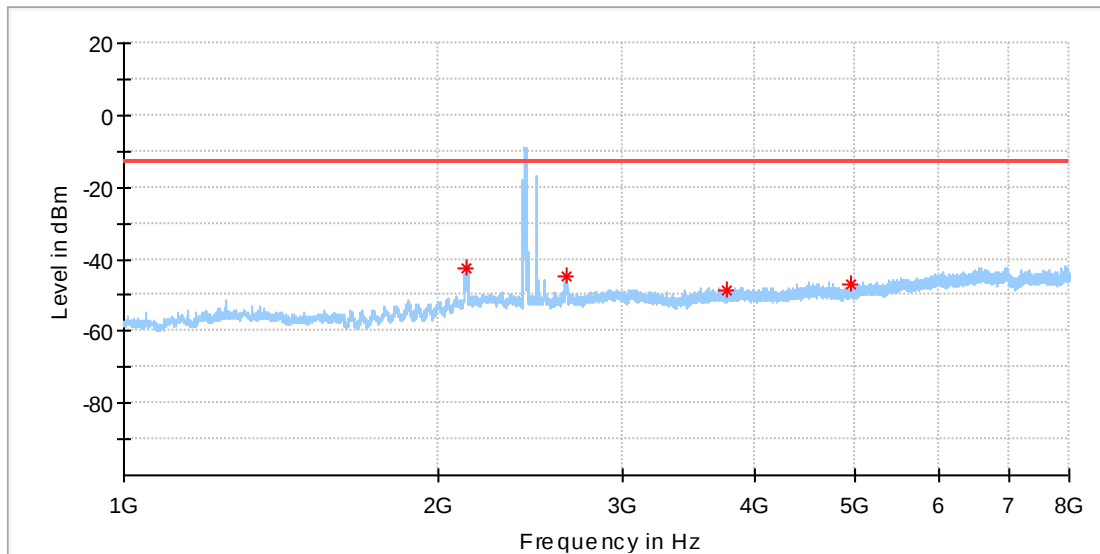
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---		---	---

RFID+BT+WI-FI+WCMA Band 2 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+WCMA Band 2-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 24 and RSS-133 Issue 6
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2121.500000	-42.56	---	-13.00	29.56	100.0	H	34.0	-88.5
2646.000000	-44.67	---	-13.00	31.67	100.0	H	0.0	-88.1
3758.000000	-48.70	---	-13.00	35.70	100.0	H	107.0	-86.6
4947.500000	-46.90	---	-13.00	33.90	100.0	H	338.0	-85.8

Final_Result

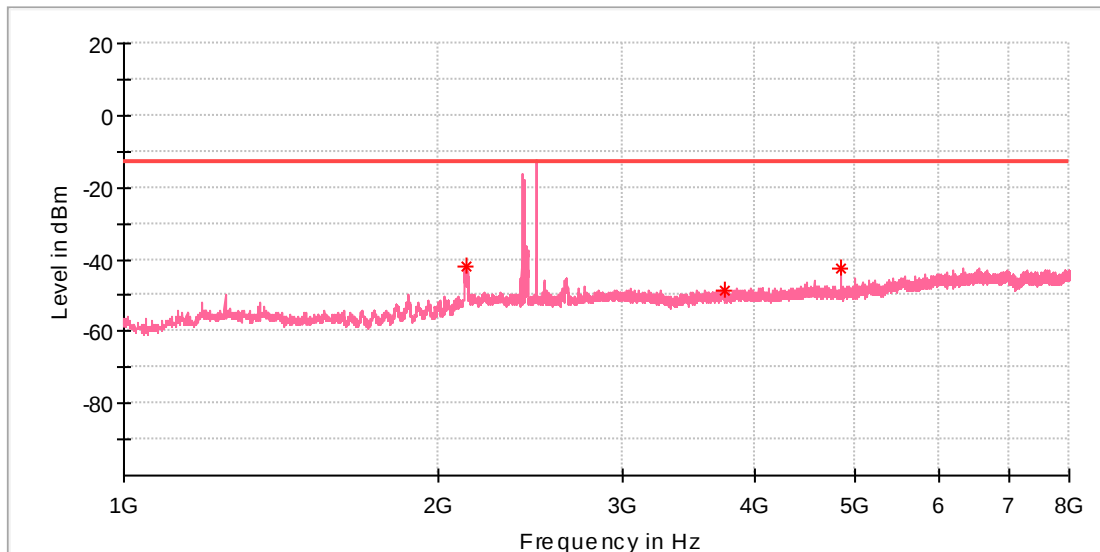
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band 2-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 24 and RSS-133 Issue 6
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2127.000000	-41.96	---	-13.00	28.96	100.0	V	213.0	-87.8
3750.500000	-48.64	---	-13.00	35.64	100.0	V	297.0	-86.9
4834.000000	-42.46	---	-13.00	29.46	100.0	V	183.0	-85.9

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

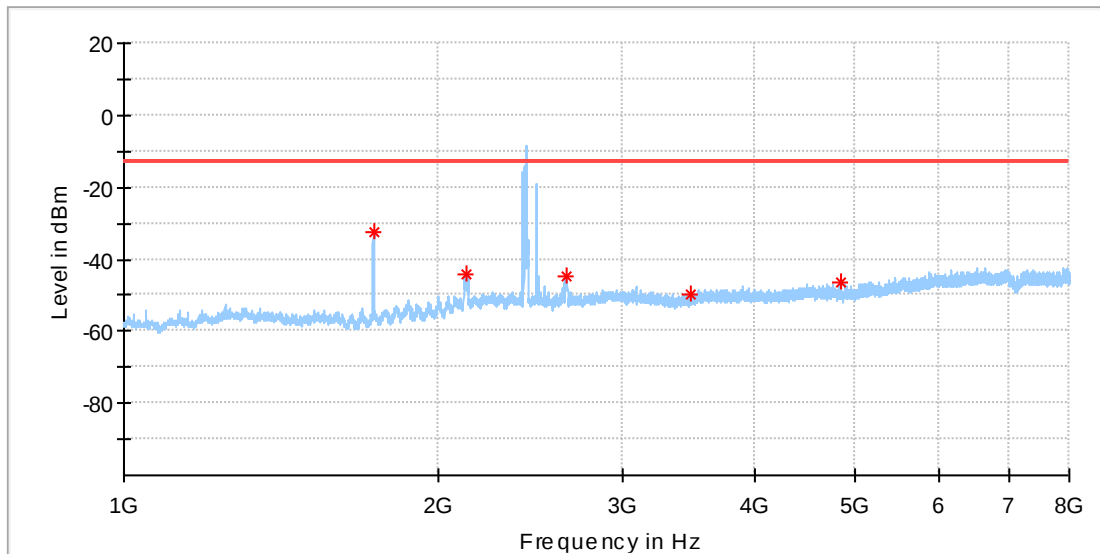
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

RFID+BT+WI-FI+WCMA Band 4 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+WCMA Band 4-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1731.000000	-32.63	---	-13.00	19.63	100.0	H	350.0	-91.4
2124.500000	-44.36	---	-13.00	31.36	100.0	H	359.0	-88.4
2646.500000	-44.63	---	-13.00	31.63	100.0	H	355.0	-88.1
3474.000000	-49.98	---	-13.00	36.98	100.0	H	192.0	-88.0
4838.500000	-46.33	---	-13.00	33.33	100.0	H	261.0	-85.9

Final Result

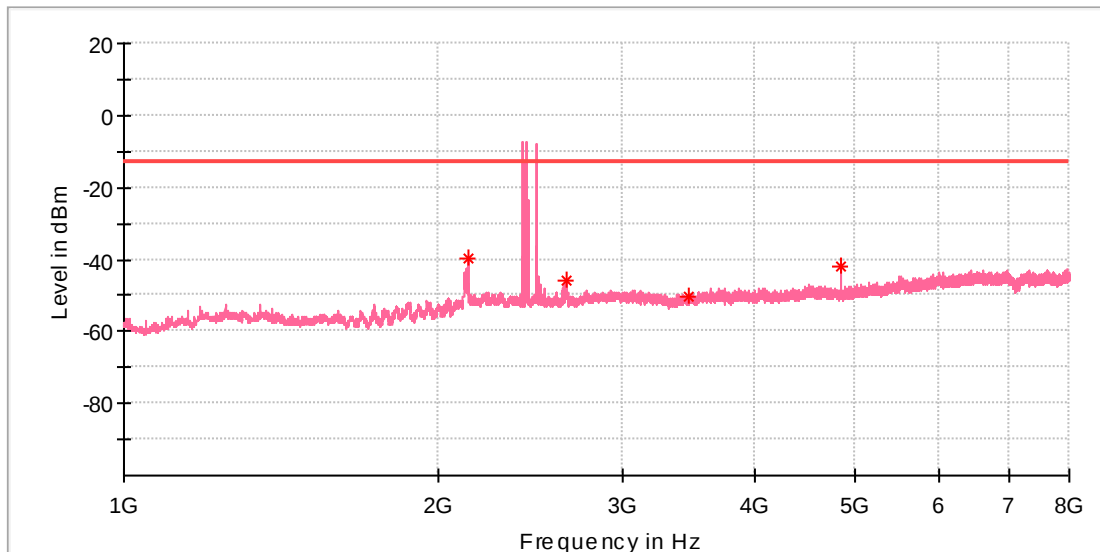
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band 4-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2133.500000	-39.65	---	-13.00	26.65	100.0	V	315.0	-87.7
2647.000000	-45.77	---	-13.00	32.77	100.0	V	238.0	-88.1
3468.000000	-50.35	---	-13.00	37.35	100.0	V	346.0	-87.8
4834.000000	-41.79	---	-13.00	28.79	100.0	V	124.0	-85.9

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

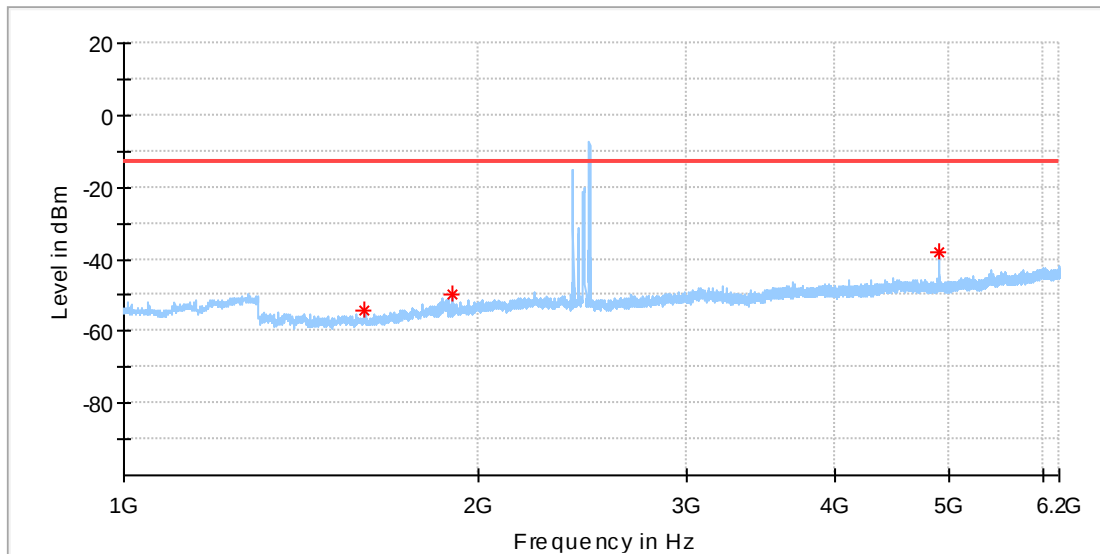
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

RFID+BT+WI-FI+WCMA Band 5 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+WCMA Band 5-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1600.000000	-54.35	---	-13.00	41.35	100.0	H	247.0	-92.8
1900.500000	-49.79	---	-13.00	36.79	100.0	H	272.0	-90.2
4904.000000	-37.82	---	-13.00	24.82	100.0	H	0.0	-83.8

Final Result

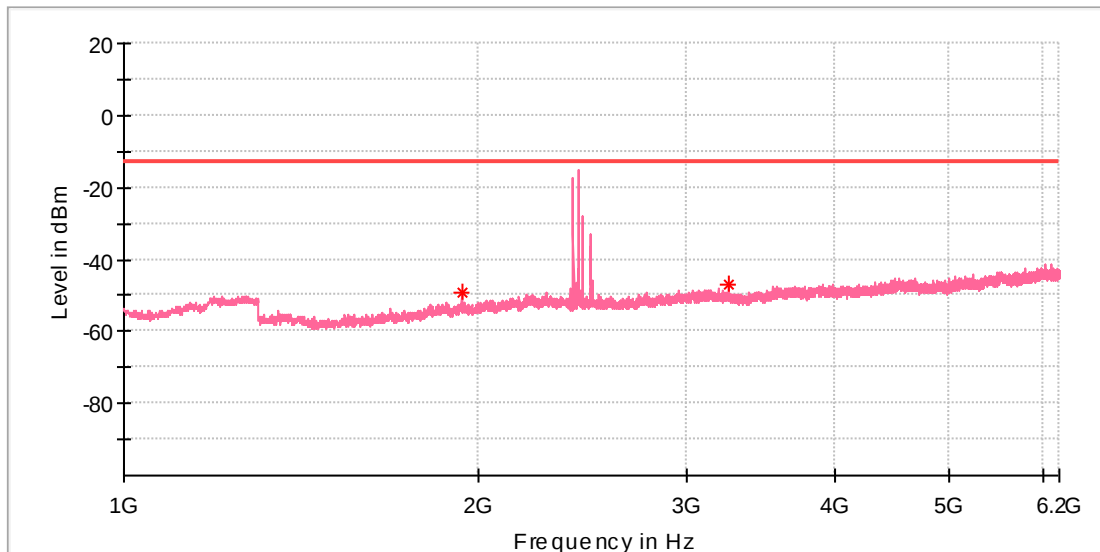
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band 5-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1932.000000	-49.24	---	-13.00	36.24	100.0	V	39.0	-89.5
3252.000000	-47.20	---	-13.00	34.20	100.0	V	232.0	-86.8

Final_Result

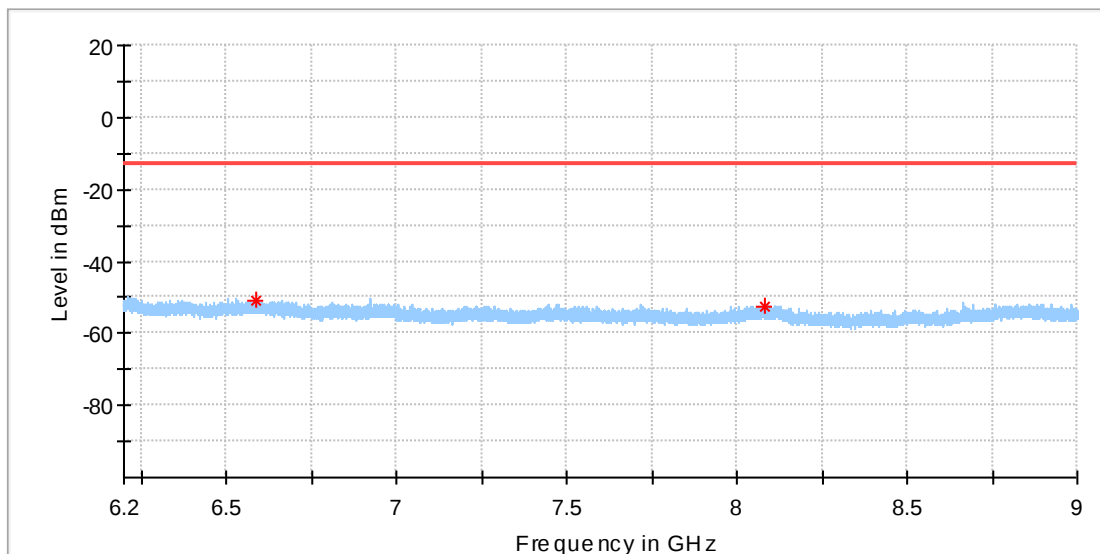
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band 5-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6585.700000	-50.62	---	-13.00	37.62	100.0	H	67.0	-87.6
8080.316667	-52.37	---	-13.00	39.37	100.0	H	0.0	-86.6

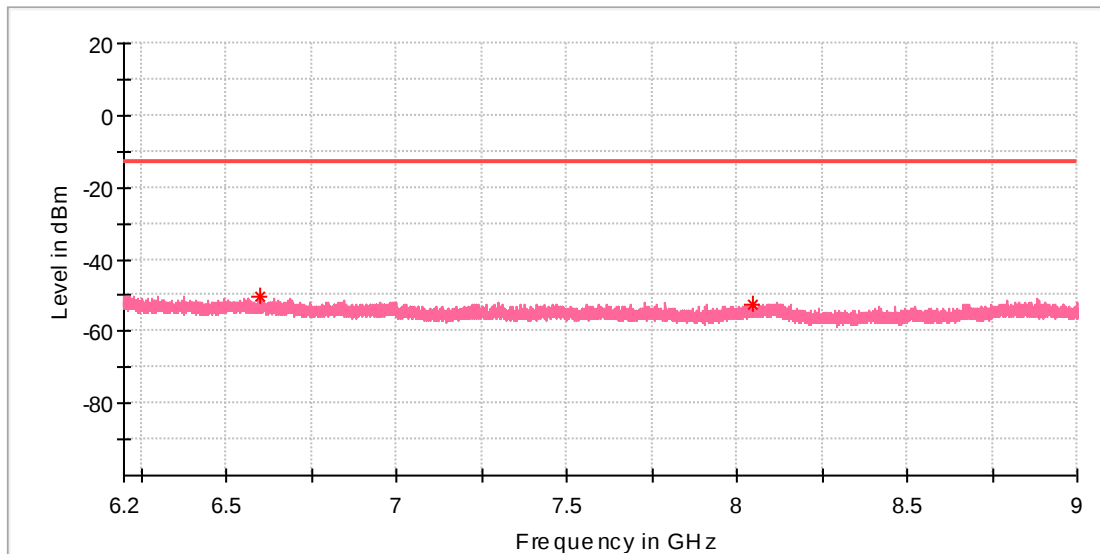
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+WCMA Band 5-middle(RMC)mode
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 22 and RSS-132 Issue 3
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6598.066667	-50.23	---	-13.00	37.23	100.0	V	241.0	-88.0
8048.933333	-52.28	---	-13.00	39.28	100.0	V	0.0	-86.8

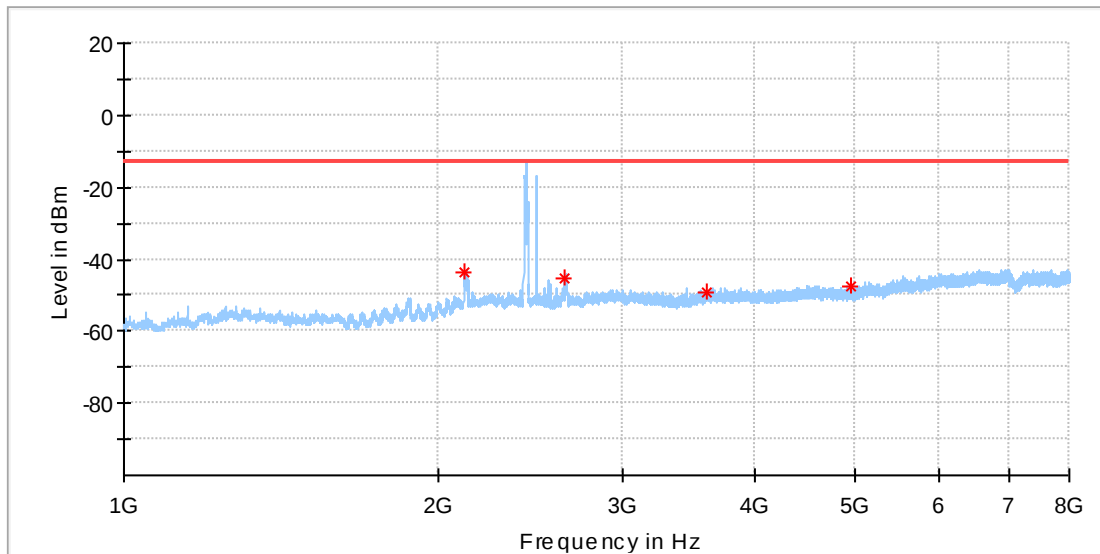
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

RFID+BT+WI-FI+LTE Band 2 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 2_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 15
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2115.000000	-43.36	---	-13.00	30.36	100.0	H	17.0	-88.8
2637.500000	-45.04	---	-13.00	32.04	100.0	H	115.0	-88.1
3604.000000	-49.11	---	-13.00	36.11	100.0	H	349.0	-86.8
4956.000000	-47.61	---	-13.00	34.61	100.0	H	166.0	-85.9

Final_Result

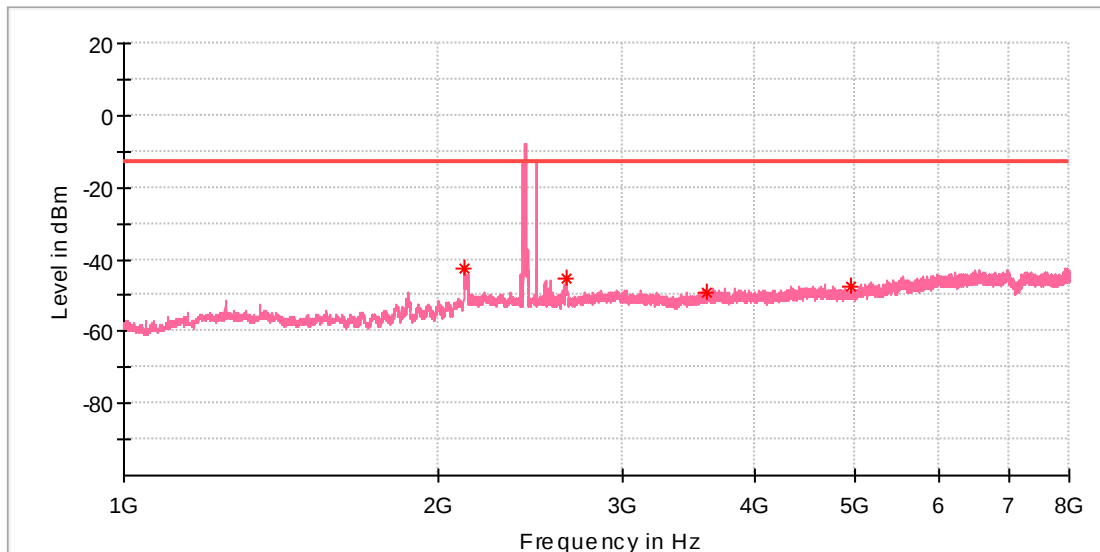
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 2_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 15
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2115.500000	-42.74	---	-13.00	29.74	100.0	V	0.0	-88.3
2647.500000	-45.06	---	-13.00	32.06	100.0	V	0.0	-88.1
3606.500000	-49.10	---	-13.00	36.10	100.0	V	107.0	-87.0
4948.000000	-47.35	---	-13.00	34.36	100.0	V	11.0	-85.9

Final_Result

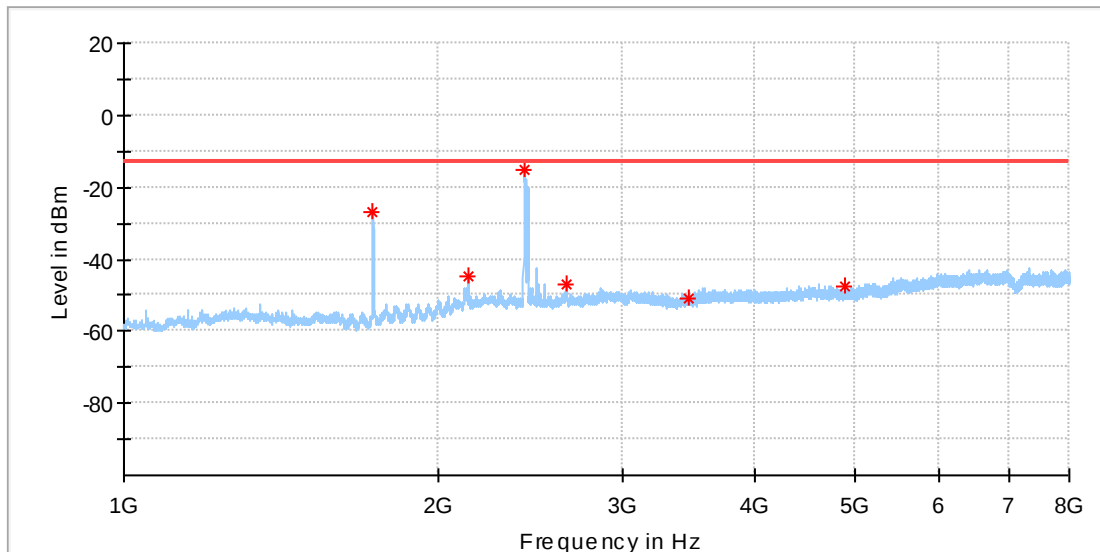
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

RFID+BT+WI-FI+LTE Band 4 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 4_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1730.000000	-26.73	---	-13.00	13.73	100.0	H	6.0	-91.4
2133.500000	-44.59	---	-13.00	31.59	100.0	H	51.0	-88.3
2413.000000	-14.96	---	-13.00	1.96	100.0	H	51.0	-87.7
2647.500000	-46.92	---	-13.00	33.92	100.0	H	0.0	-88.1
3461.000000	-50.83	---	-13.00	37.83	100.0	H	42.0	-88.0
4882.500000	-47.65	---	-13.00	34.65	100.0	H	349.0	-85.8

Final Result

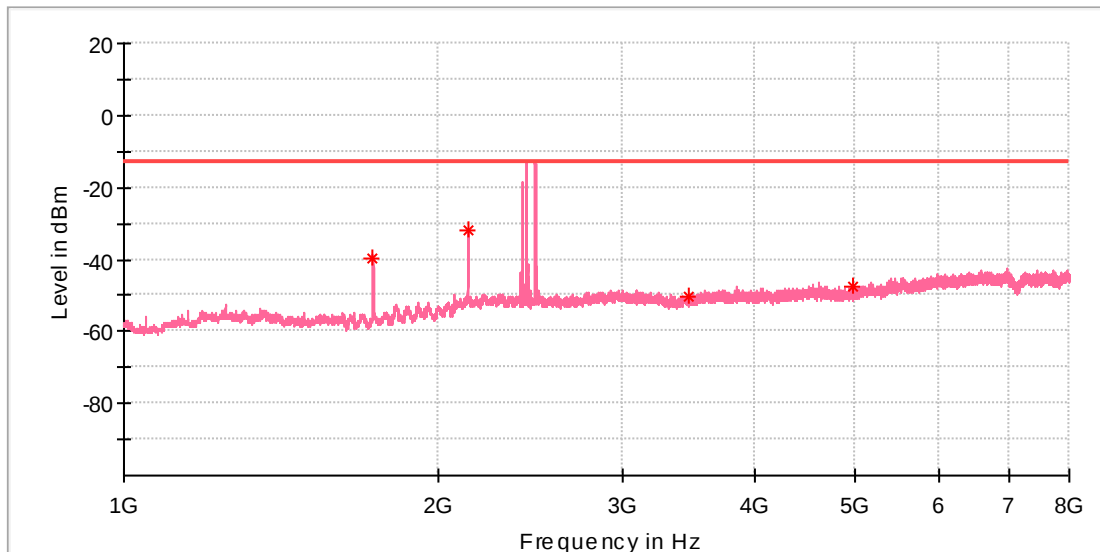
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 4_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1730.000000	-39.46	---	-13.00	26.46	100.0	V	349.0	-91.6
2131.500000	-31.65	---	-13.00	18.65	100.0	V	235.0	-87.7
3457.500000	-50.32	---	-13.00	37.32	100.0	V	120.0	-87.7
4962.500000	-47.61	---	-13.00	34.61	100.0	V	342.0	-86.0

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

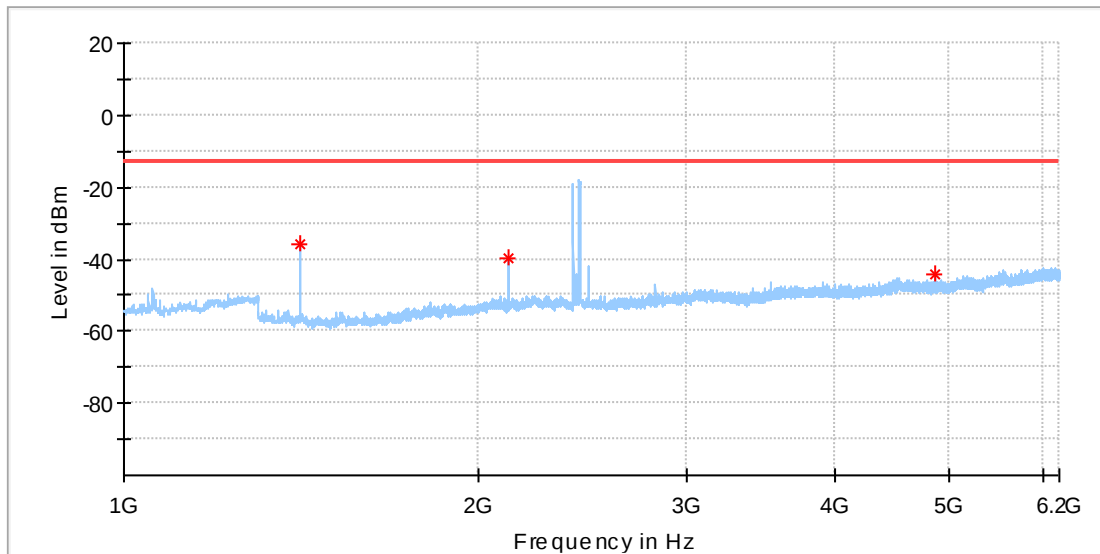
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

RFID+BT+WI-FI+LTE Band 12 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 12_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1410.500000	-35.98	---	-13.00	22.98	100.0	H	215.0	-92.6
2116.000000	-39.55	---	-13.00	26.55	100.0	H	0.0	-88.8
4864.000000	-44.29	---	-13.00	31.29	100.0	H	243.0	-84.0

Final_Result

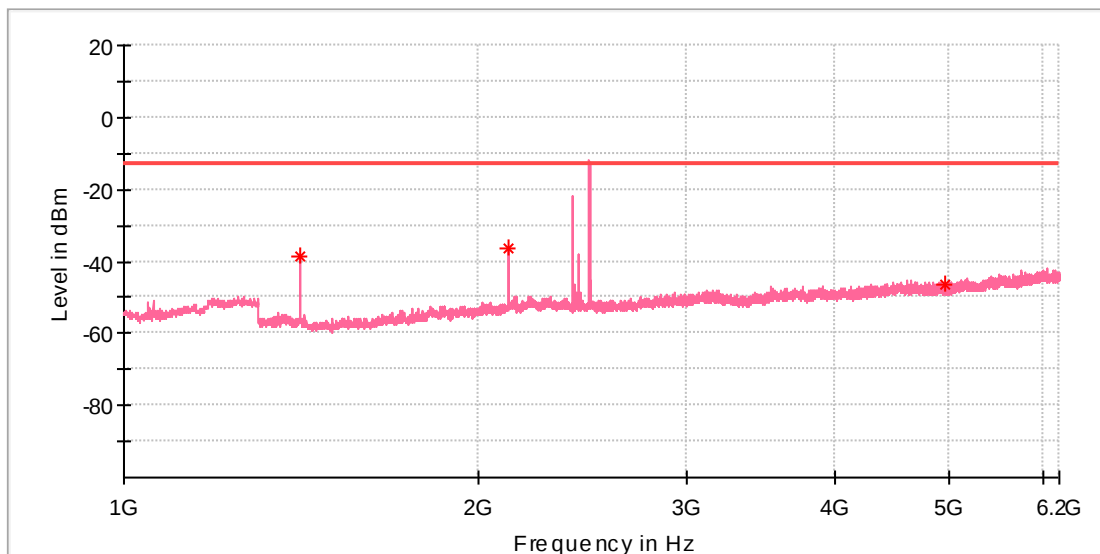
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 12_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1410.500000	-38.46	---	-13.00	25.46	100.0	V	316.0	-92.8
2115.500000	-36.16	---	-13.00	23.16	100.0	V	131.0	-88.3
4956.000000	-46.57	---	-13.00	33.57	100.0	V	232.0	-84.1

Final Result

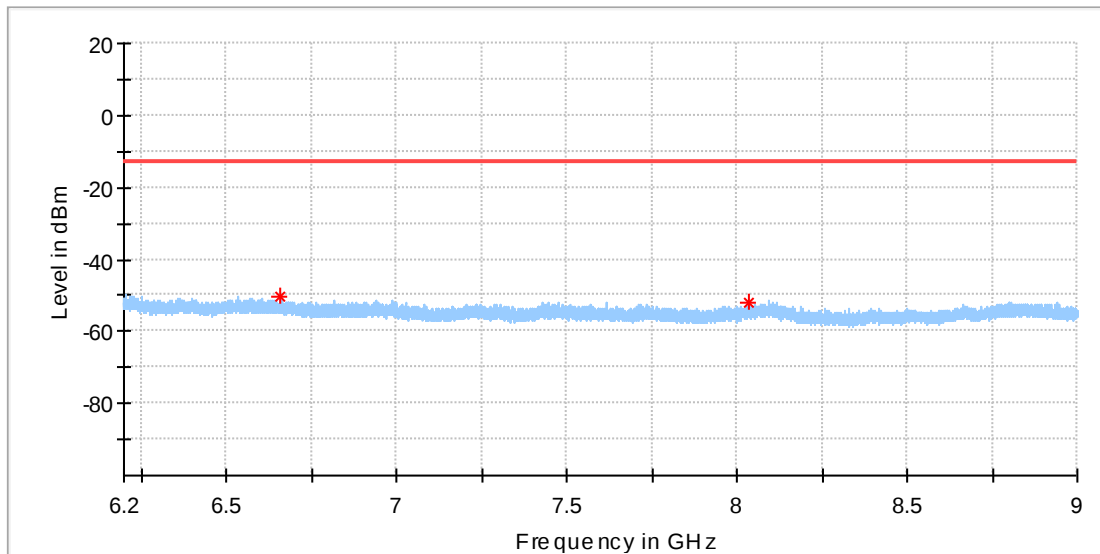
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 12_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6657.566667	-50.27	---	-13.00	37.27	100.0	H	95.0	-87.6
8034.000000	-51.84	---	-13.00	38.84	100.0	H	231.0	-87.2

Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 12_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6988.550000	-50.79	---	-13.00	37.79	100.0	V	276.0	-88.3
8088.600000	-51.51	---	-13.00	38.51	100.0	V	322.0	-86.7

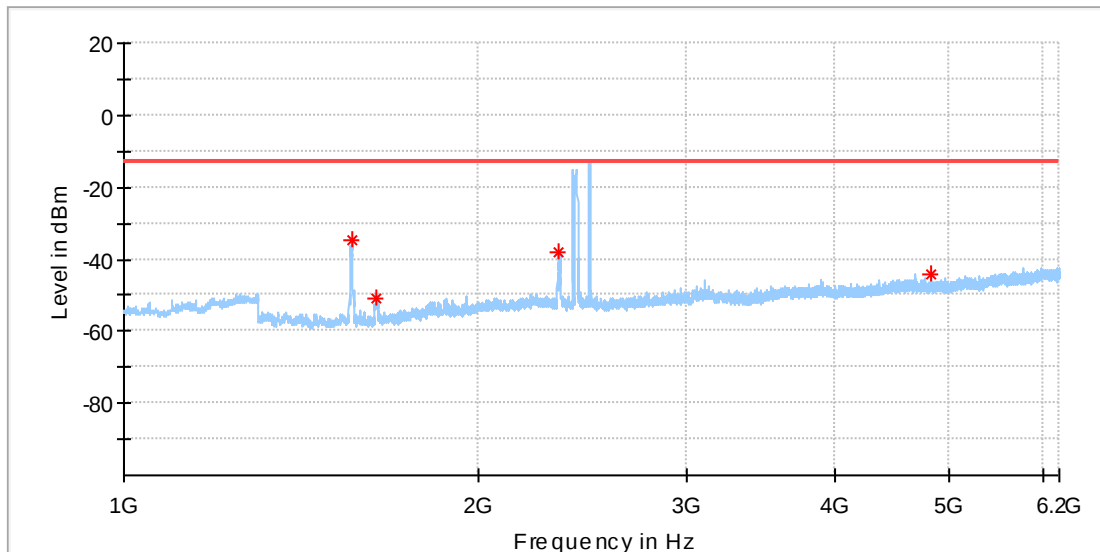
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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RFID+BT+WI-FI+LTE BAND 13 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 13_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1561.000000	-34.89	---	-13.00	21.89	100.0	H	276.0	-93.0
1637.000000	-50.86	---	-13.00	37.86	100.0	H	309.0	-92.6
2337.000000	-38.01	---	-13.00	25.01	100.0	H	14.0	-87.6
4835.000000	-44.40	---	-13.00	31.40	100.0	H	138.0	-84.0

Final_Result

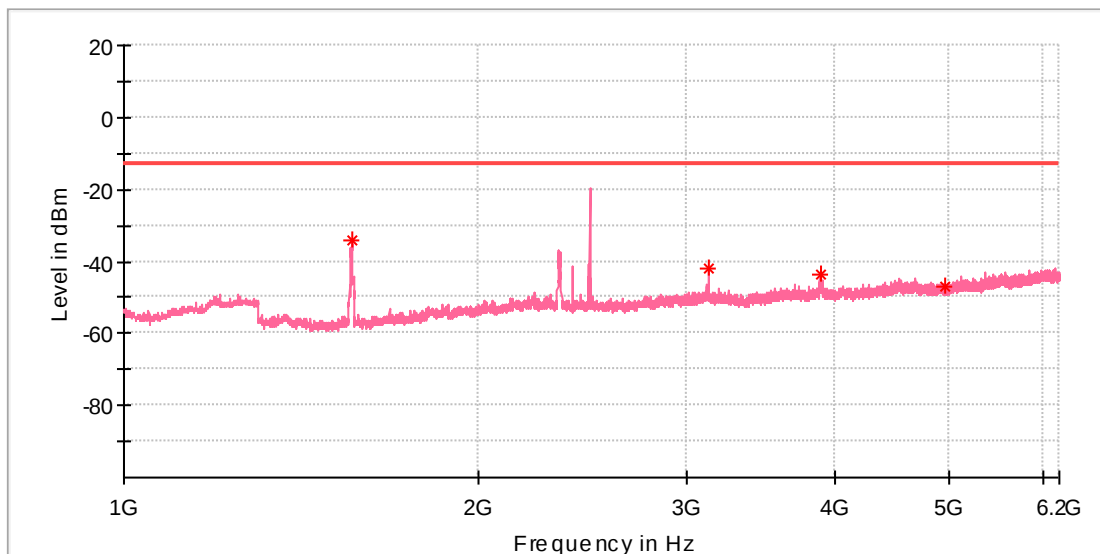
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 13_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1561.500000	-34.39	---	-13.00	21.39	100.0	V	72.0	-93.0
3126.000000	-42.08	---	-13.00	29.08	100.0	V	169.0	-86.2
3887.500000	-43.42	---	-13.00	30.42	100.0	V	169.0	-85.1
4959.500000	-46.88	---	-13.00	33.88	100.0	V	358.0	-84.1

Final_Result

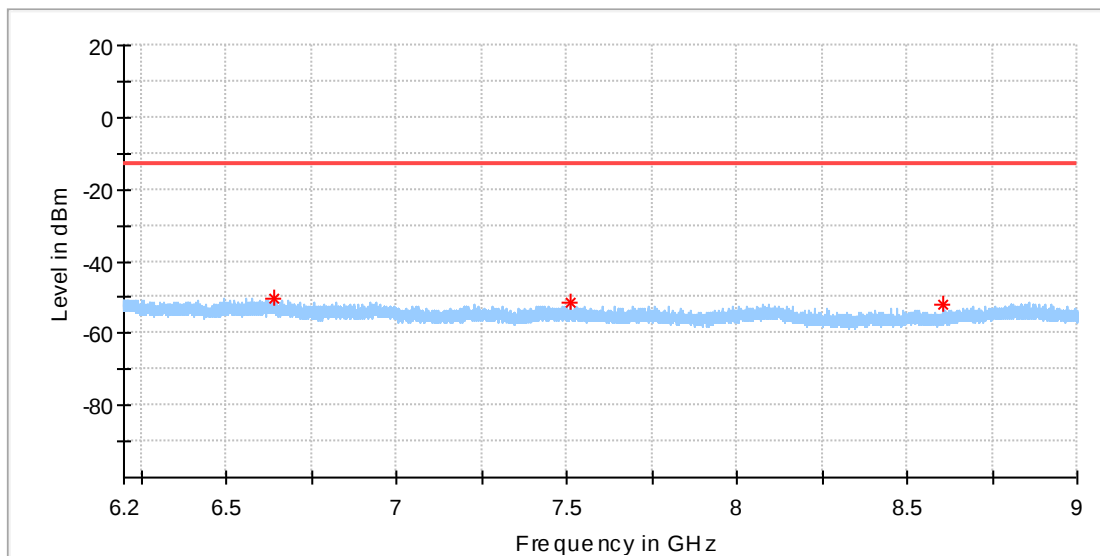
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 13_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6639.833333	-50.53	---	-13.00	37.53	100.0	H	299.0	-87.6
7509.233333	-51.69	---	-13.00	38.69	100.0	H	24.0	-87.1
8603.683333	-52.18	---	-13.00	39.18	100.0	H	0.0	-87.1

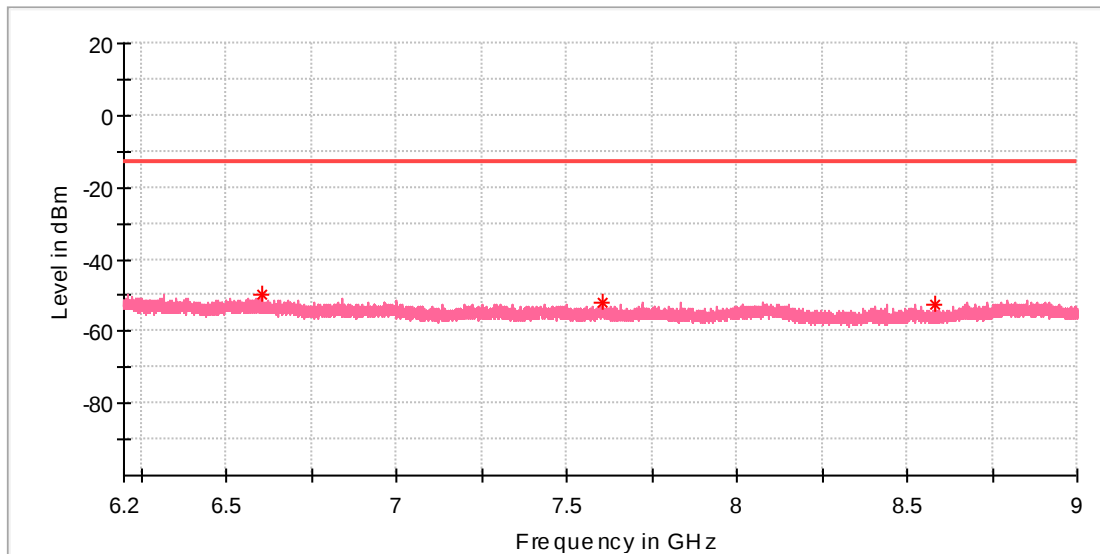
Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 13_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6606.816667	-49.72	---	-13.00	36.72	100.0	V	186.0	-88.1
7605.250000	-51.97	---	-13.00	38.97	100.0	V	196.0	-87.3
8580.466667	-52.41	---	-13.00	39.41	100.0	V	82.0	-87.3

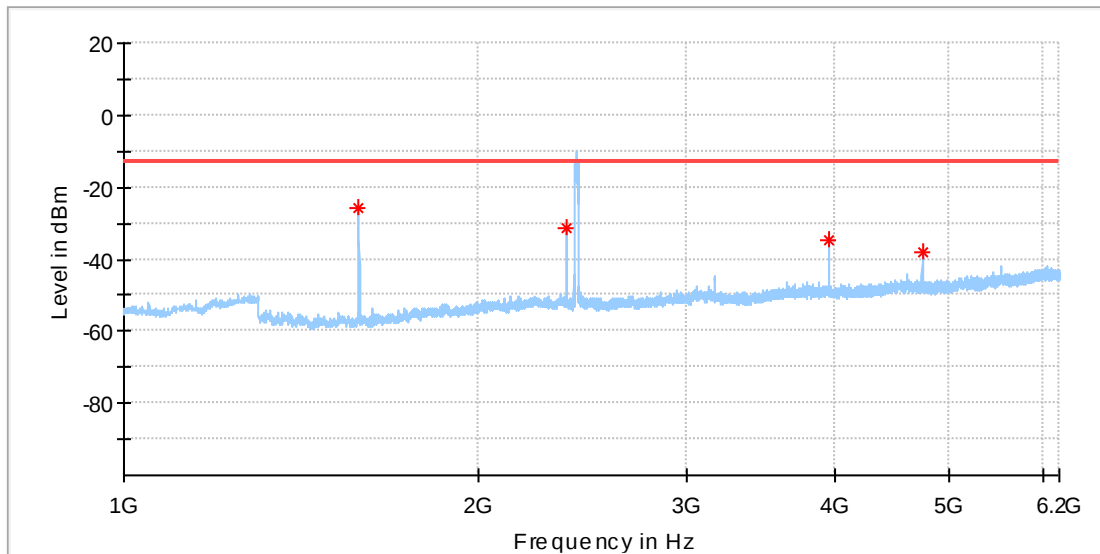
Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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RFID+BT+WI-FI+LTE Band 14 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 14_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 90
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1581.500000	-25.99	---	-13.00	12.99	100.0	H	280.0	-92.9
2372.000000	-31.55	---	-13.00	18.55	100.0	H	22.0	-88.0
3954.500000	-34.56	---	-13.00	21.56	100.0	H	280.0	-85.0
4745.500000	-38.21	---	-13.00	25.21	100.0	H	185.0	-83.7

Final_Result

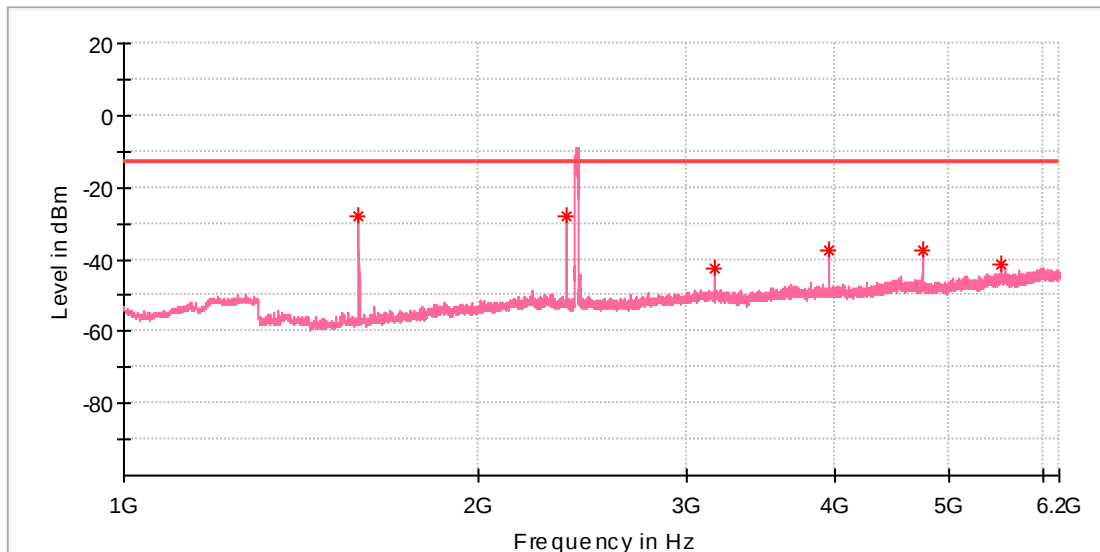
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 14_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 90
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1581.000000	-27.98	---	-13.00	14.98	100.0	V	78.0	-93.0
2372.500000	-27.84	---	-13.00	14.84	100.0	V	23.0	-87.8
3163.000000	-42.25	---	-13.00	29.25	100.0	V	217.0	-86.2
3954.500000	-37.22	---	-13.00	24.22	100.0	V	340.0	-85.4
4745.000000	-37.54	---	-13.00	24.54	100.0	V	63.0	-83.8
5536.000000	-41.21	---	-13.00	28.21	100.0	V	200.0	-81.2

Final Result

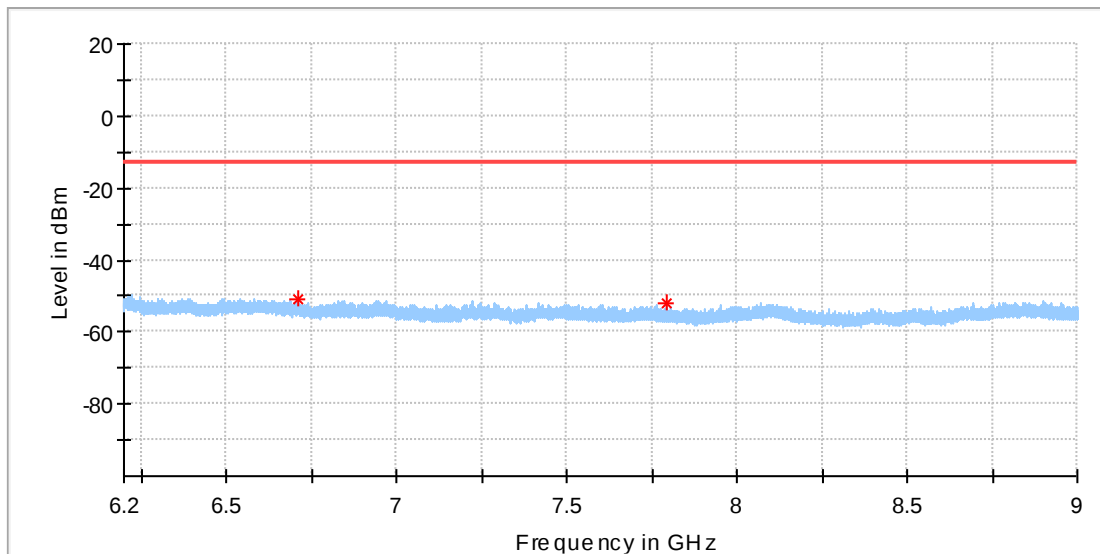
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 14_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 90
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6712.516667	-51.05	---	-13.00	38.05	100.0	H	115.0	-88.1
7792.500000	-51.86	---	-13.00	38.86	100.0	H	311.0	-87.6

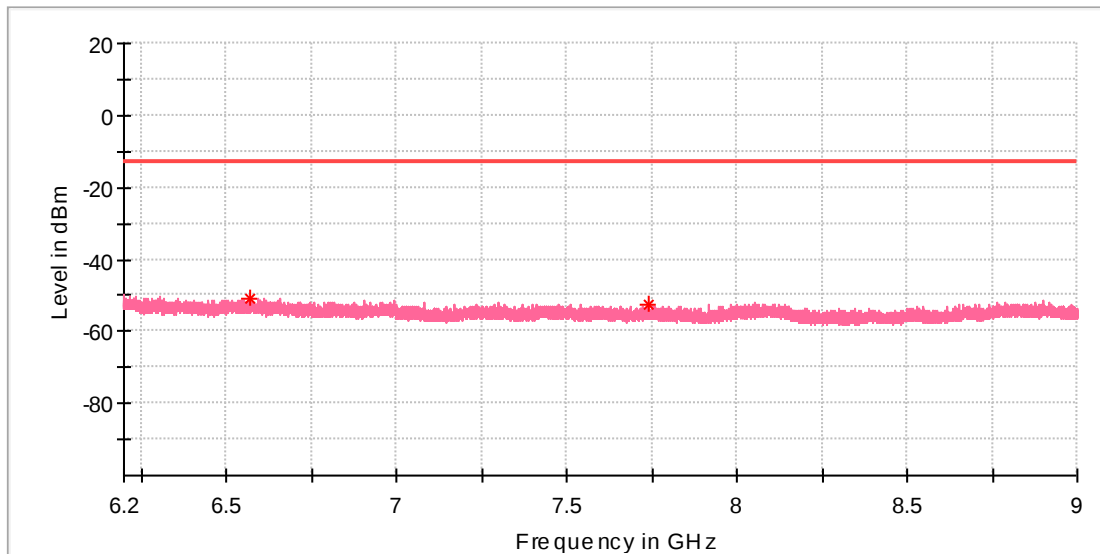
Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 14_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 90
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6571.000000	-50.89	---	-13.00	37.89	100.0	V	120.0	-87.5
7741.983333	-52.47	---	-13.00	39.47	100.0	V	0.0	-87.8

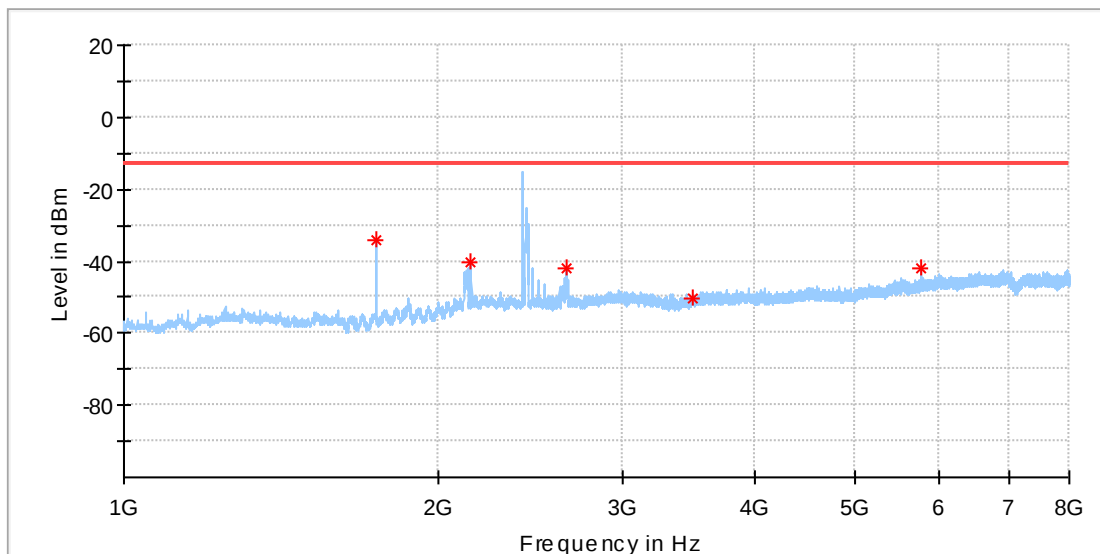
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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RFID+BT+WI-FI+LTE Band 66 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 66_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1742.500000	-33.93	---	-13.00	20.93	100.0	H	10.0	-91.5
2146.500000	-40.24	---	-13.00	27.24	100.0	H	113.0	-88.6
2646.500000	-41.97	---	-13.00	28.97	100.0	H	53.0	-88.1
3491.000000	-50.24	---	-13.00	37.24	100.0	H	183.0	-87.6
5770.000000	-41.70	---	-13.00	28.70	100.0	H	71.0	-83.5

Final Result

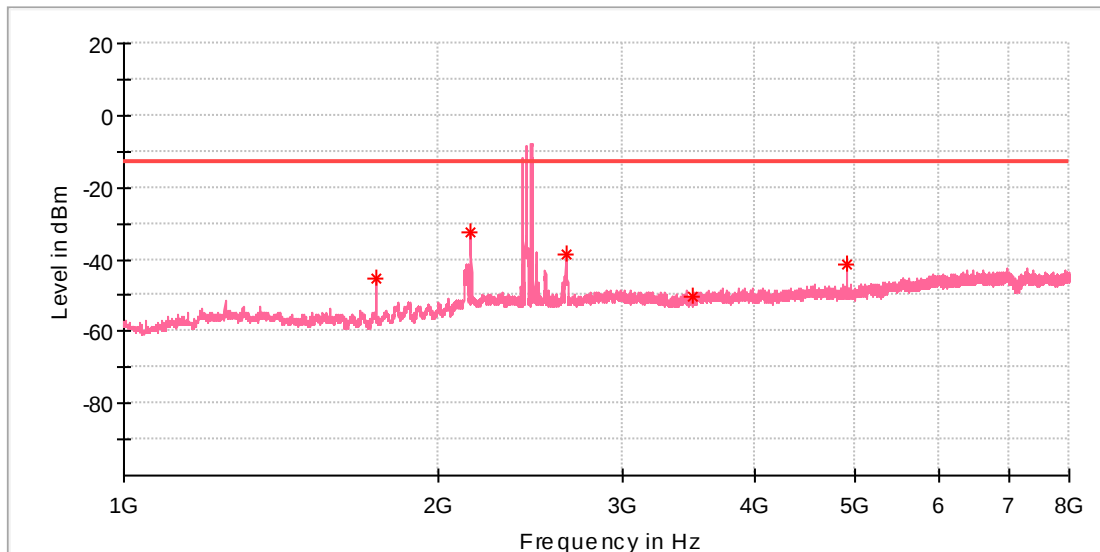
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+Wi-Fi+LTE BAND 66_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1743.000000	-45.13	---	-13.00	32.13	100.0	V	341.0	-91.6
2145.500000	-32.67	---	-13.00	19.67	100.0	V	319.0	-88.0
2642.500000	-38.76	---	-13.00	25.76	100.0	V	128.0	-88.2
3488.500000	-50.15	---	-13.00	37.15	100.0	V	52.0	-87.7
4904.000000	-41.63	---	-13.00	28.63	100.0	V	343.0	-85.6

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Note: The fundamental waves were not recorded in the graphics when they were observed.

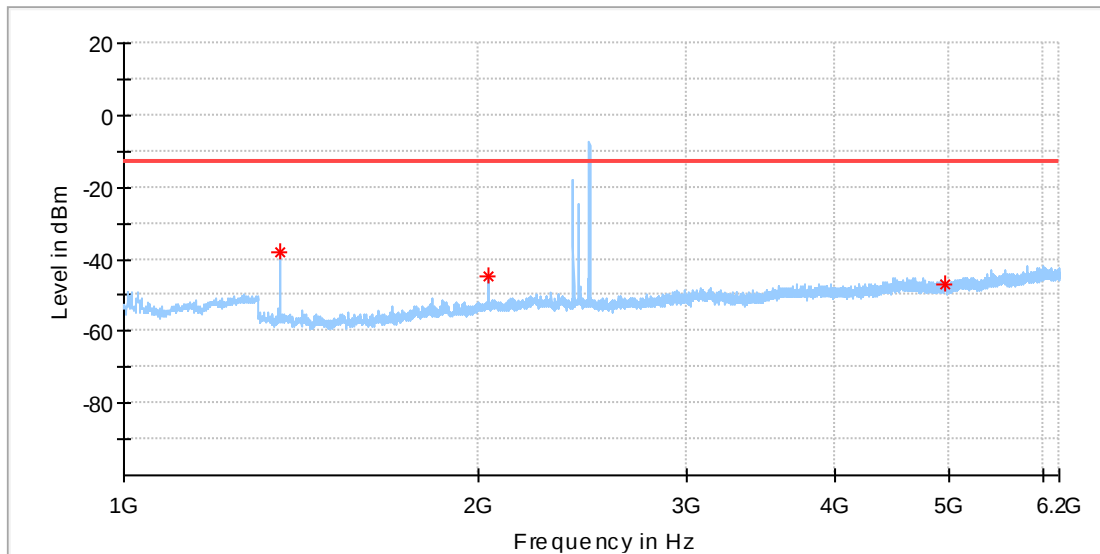
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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RFID+BT+WI-FI+LTE Band 71 Test Report

EUT Information

EUT Name: Terra AC Wallbox Charging Station
Model: TERRA AC W7-P8-RD-MCD-0
Test Mode: RFID+BT+WI-FI+LTE BAND 71_middle(QPSK:5MHz)
Test Voltage:: AC 240V/60Hz
Remark: Temp 23 Humi:49%
Test Standard: FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1356.500000	-38.09	---	-13.00	25.09	100.0	H	185.0	-92.6
2034.500000	-44.57	---	-13.00	31.57	100.0	H	25.0	-88.7
4959.500000	-46.81	---	-13.00	33.81	100.0	H	89.0	-84.1

Final_Result

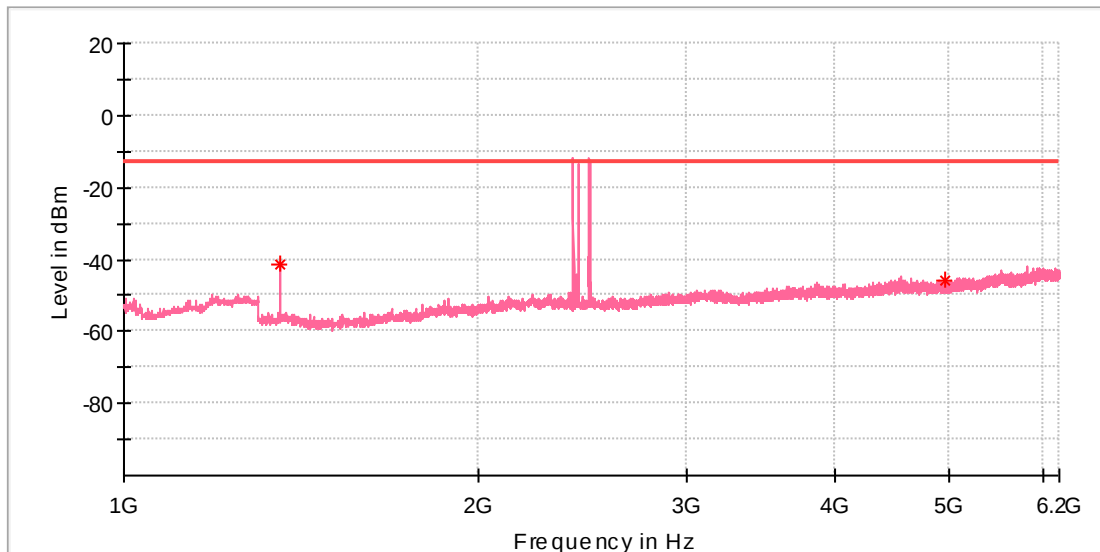
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Note: The fundamental waves were not recorded in the graphics when they were observed.

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Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1356.500000	-41.50	---	-13.00	28.50	100.0	V	154.0	-92.2
4958.000000	-45.65	---	-13.00	32.65	100.0	V	13.0	-84.1

Final_Result

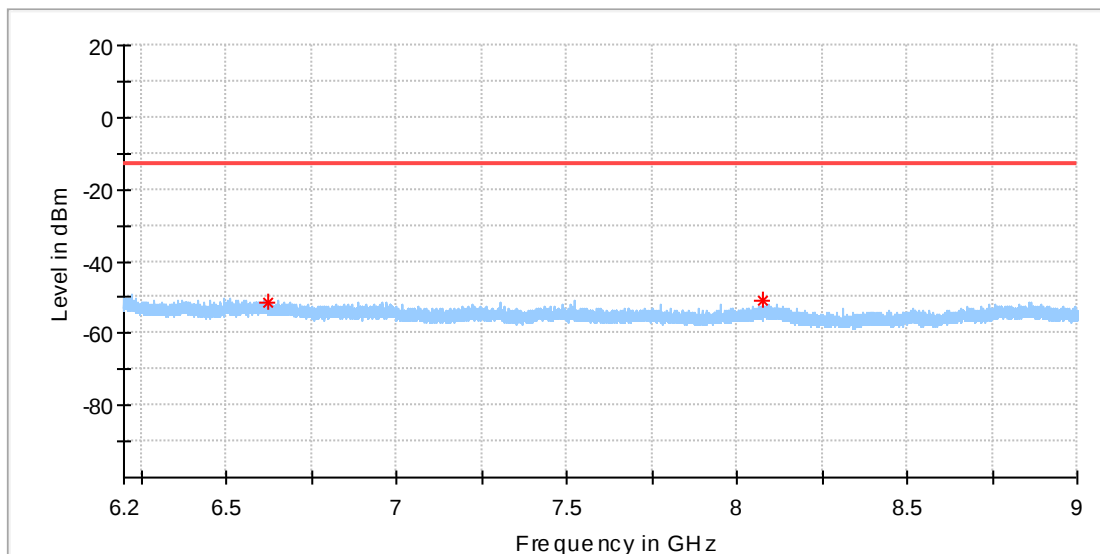
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6622.450000	-51.18	---	-13.00	38.18	100.0	H	24.0	-87.7
8076.116667	-51.16	---	-13.00	38.16	100.0	H	158.0	-86.6

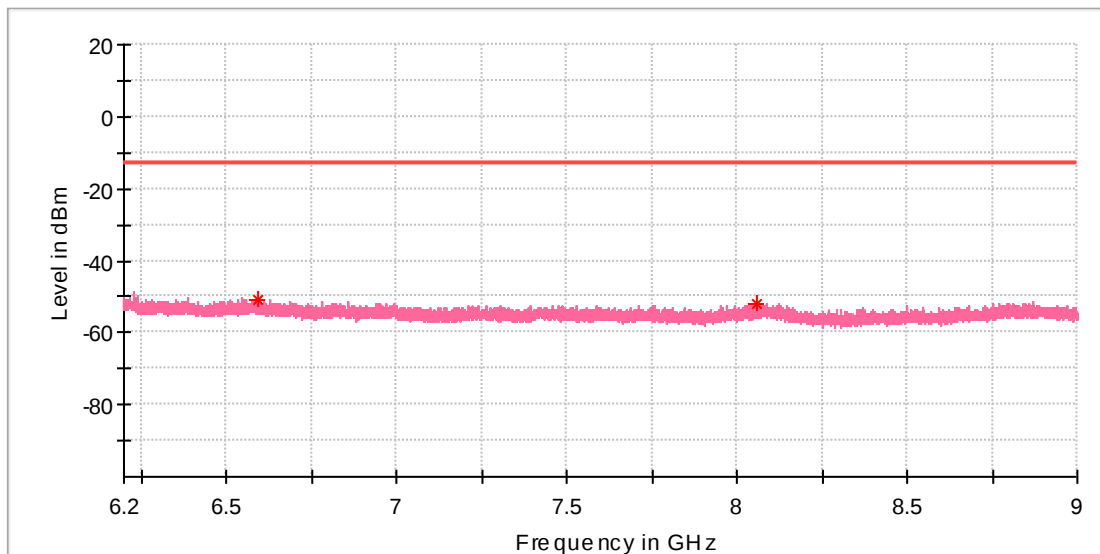
Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---

Test Report

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Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	DET 2 (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
6591.766667	-50.87	---	-13.00	37.87	100.0	V	118.0	-87.9
8061.183333	-51.84	---	-13.00	38.84	100.0	V	38.0	-86.8

Final_Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
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Appendix B: Photographs of the Test Set-Up

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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

