

Prüfbericht-Nr.: <i>Test report no.:</i>	CN2580C3 001	Auftrags-Nr.: <i>Order no.:</i>	170419036	Seite 1 von 23 Page 1 of 23	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	--	Auftragsdatum: <i>Order date:</i>	2025-05-12		
Auftraggeber: <i>Client:</i>	Infinite Machine Technologies, Inc. 5-37 46th Ave Long Island City New York 11101 USA				
Prüfgegenstand: <i>Test item:</i>	Electric Bicycle				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Olto				
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland RF test report				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.225 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209				
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-10-21	Please refer to photo documents			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004118798-001				
Prüfzeitraum: <i>Testing period:</i>	2025-10-25 to 2025-11-15				
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2026-03-28	Signed by: Joe Chen	Ausstellungsdatum: <i>Issue date:</i>	2026-04-02	Signed by: Webb Luo
Stellung / Position:	Project Engineer		Stellung / Position:	Authorizer	
Sonstiges / <i>Other:</i>	This report was only evaluated 13.56MHz RF characteristics of the product. FCC ID: 2BU45OLTO1				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 THE FIELD STRENGTH OF EMISSION WITHIN THE BAND

RESULT: Pass

5.1.3 SPURIOUS EMISSION OUTSIDE BAND

RESULT: Pass

5.1.4 FREQUENCY TOLERANCE OF CARRIER SIGNAL

RESULT: Pass

5.1.5 20dB BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED EMISSIONS

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 13.56MHz SDR

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

TUV RHEINLAND (GUANGDONG) LTD.

1/F. &2/F., Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou 510650, Guangdong, People's Republic of China

FCC Registration No.: CN1207

IC Registration No.: 2932C

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Model	Manufacturer	Serial No.	Cal Until	Calibration Interval
Radio Spectrum Test					
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2025-12-03	1 year
Signal Generator	SMB100A	Rohde & Schwarz	115613	2026-03-04	1 year
Climatic Chamber	EL-04KA	GZ-ESPEC	6107116	2026-03-04	1 year
Attenuator	3.5TS2-6dB-26.5G	SHX	12042001	2025-02-28	2 years
Combiner/Divider	1515	Weinschel	PG325	2025-02-28	2 years
RF Control Unit	JS0806-2	Tonscend Technology	N/A	2026-03-22	1 year
Spurious Emission (25MHz~26.5GHz)					
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2026-11-16	1 year
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	684	2025-08-28	2 years
Double-Ridged Waveguide Horn	HF907 (1-18GHz)	Rohde & Schwarz	100377	2025-08-28	2 years

Equipment	Model	Manufacturer	Serial No.	Cal Until	Calibration Interval
Antenna					
Pre-amplifier	TAP01018050	Tonscend Technology	AP23L8060327	2026-01-02	1 year
Band Reject Filter	BRM50702	Micro-Tronics	023	2024-07-14	2 years
Standard Gain Horn Antenna	3160-09 (18-26.5GHz)	EMCO	21642	2025-01-16	3 years
Pre-amplifier	AFS33-18002650-30-8P-44	MITEQ	1108282	2025-08-01	1 year
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	2024-06-29	3 years
Test software	EMC32-Version 10.50.00	Rohde & Schwarz	/	/	/
Spurious Emission (below 30MHz)					
Loop Antenna	HFH2-Z2 (<30MHz)	Rohde & Schwarz	100111	2025-06-12	2 years
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2025-11-16	1 year
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	2024-06-29	3 years
Test software	EMC32-Version 10.50.00	Rohde & Schwarz	1813819	/	/
Conducted Emission on AC Mains					
EMI Test Receiver	ESCI 3	Rohde & Schwarz	100314	2026-03-01	1 Year
Two-Line V-Network	ENV216	Rohde & Schwarz	100195	2025-08-07	1 Year
Test software	EMC32-Version 10.50.00	Rohde & Schwarz	/	/	/

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

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisprr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.16 dB ± 1.98 dB	± 3.8 dB ± 3.4 dB
Radiated Emission (3m SAC)	Level accuracy (below 30MHz)	± 2.56 dB	/
	Level accuracy (30MHz to 1000MHz)	± 5.34 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.56 dB	/

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory. Test facility located at No. 110, 1/F., Building B, No.102, 1F of Southwest and No.205, 2F of West Warehouse Building, No.767 Tianyuan Road, Tianhe District, Guangzhou 510650, Guangdong, P.R.China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT (**E**quipment **U**nder **T**est) Olto is an Electric Bicycle for riding and similar use which support Bluetooth and NFC wireless function.

Therefore, all tests were performed on one representative model Olto.
(The model T09 or OT01 in appendix 1 and the certified product Olto are the same product. The customer modified the model after the test was completed.)

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Electric Bicycle
Type Designation:	Olto
Trademark:	INFINITE MACHINE
FCC ID:	2BU45OLTO1
Operating Voltage:	Power Battery (OT01): DC 50.4V, 25.0AH, 1.2kWh Li-ion; Power Battery (M001-3S1P): DC 10.8V, 4.1AH, 43.2Wh Li-ion; Charger for power battery (LBC055581060): Input: 100-240Vac, 50-60Hz, 4.2A (Max.), Output: 58.1Vdc, 6.0A; Charger for front battery (SAW24A-150-2000U): Input: 100-240Vac, 50/60Hz, 0.8A, Output: 15Vdc, 2.0A.
Testing Voltage:	Fully charged battery
Operating Temperature Range:	0°C ~ +50 °C
Radiofrequency operating mode:	1) 13.56MHz SDR: operating within 13.56MHz, FSK 2) Bluetooth: operating within 2400-2483.5MHz, Bluetooth BLE (1Mbps&2Mbps)
Technical Specification of SDR	
Operating Frequency:	13.56MHz
Type of Modulation:	FSK
Channel Number:	1 channel
Antenna Type:	inductance coil Antenna
Technical Specification of 2.4GHz Bluetooth (refer to model HLK-B40, FCC ID 2AD56HK-B40)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	Low Energy mode:40 channels
Channel Separation:	Low Energy mode:2MHz
Data Rate:	Low Energy mode: (1Mbps, 2Mbps)
Antenna Type:	Integral Antenna

Antenna Number:	1
Antenna Gain:	1.72 dBi (Provided by the Client)

Table 3: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

3.3 Independent Operation Modes

The basic operation modes are:

- A. NFC mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Block Diagram
- Schematics
- User Manual
- 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 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. All testing were performed according to the procedures in ANSI C63.10-2020

According to clause 3.1, all tests were performed on model Olto in this report.

4.3 Special Accessories and Auxiliary Equipment

N/A.

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

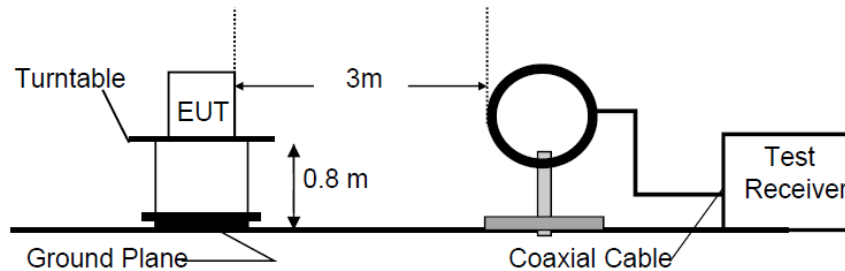


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

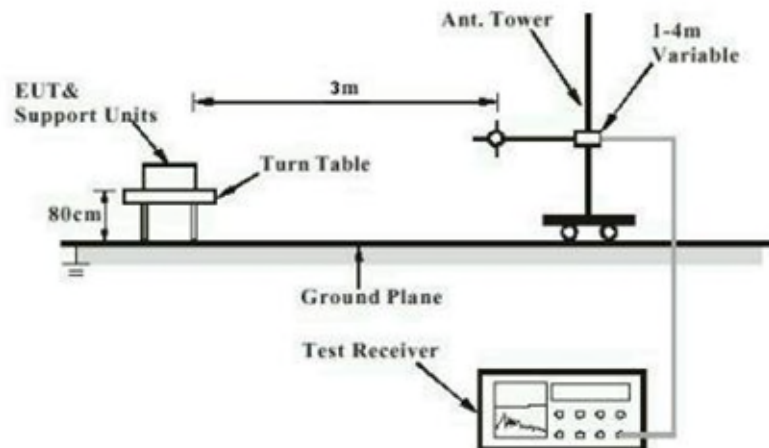


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

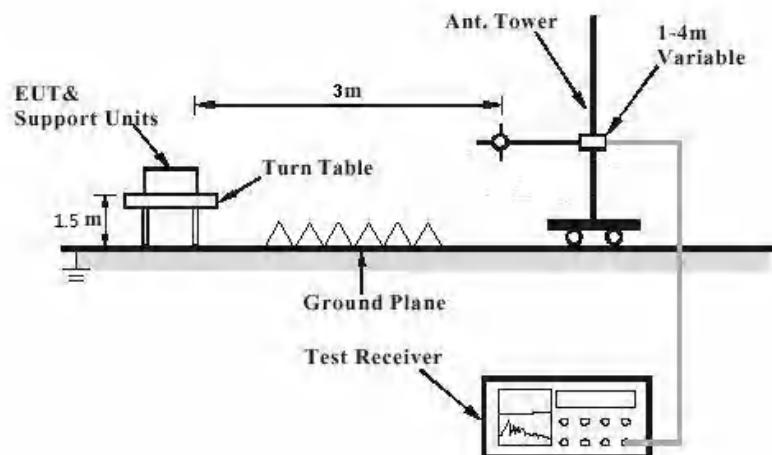
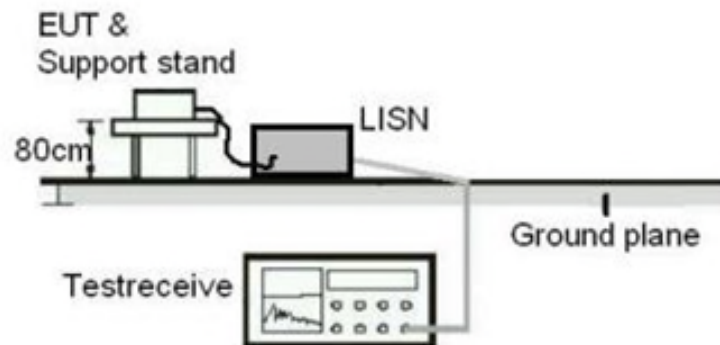


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard	:	Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has inductance coil Antenna, the directional gain of antenna is 1.72dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 The field strength of Emission within the band

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.225 (a), (b), (c)
Basic standard : ANSI C63.10-2020
Limit : FCC Part 15.225 (a), (b), (c)
Kind of test site : Shielded Room

Test Setup

Date of testing : Refer to Appendix 1
Input voltage : Fully charged battery
Operation mode : A
Earthing : Not connected
Ambient temperature : Refer to Appendix 1
Relative humidity : Refer to Appendix 1
Atmospheric pressure : 101 kPa

Refer to Appendix 1 for details of test result.

Test result. (at 3m distance)

Test Mode	Test Polarization	Test data(dBuV/m)	Limit (dBuV/m)	Result
NFC transmitting	X	74.769	124.0	PASS
	Y	75.285		PASS
	Z	76.413		PASS

Refer to Appendix A for details of test result.

5.1.3 Spurious Emission outside band

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.225 (d)
Basic standard	: ANSI C63.10-2020
Limit	: FCC part 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: Refer to Appendix 1
Input voltage	: Fully charged battery
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: Refer to Appendix 1
Relative humidity	: Refer to Appendix 1
Atmospheric pressure	: 101 kPa

Refer to Appendix A for details of test result.

5.1.4 Frequency tolerance of carrier signal

RESULT:
Pass
Test Specification

Test standard : FCC part 15.225 (e)
 Basic standard : ANSI C63.10-2020
 Limit : $\pm 0.01\%$
 Kind of test site : 3m Semi-Anechoic Chamber

Test Setup

Date of testing : 2025-11-22
 Input voltage : Refer to below table 3
 Operation mode : A
 Earthing : Not connected
 Ambient temperature : 25°C
 Relative humidity : 54 %
 Atmospheric pressure : 101 kPa

Refer to following test plots for details of test result.

Table 4: Test result of frequency tolerance of voltage variation

Test conditions		Frequency (MHz)
		13.56
T _{nom} (25 °C)	V _{min} (DC 10.2 V)	13.55962
T _{nom} (25 °C)	V _{nom} (DC 12.0 V)	13.55962
T _{nom} (25 °C)	V _{max} (DC 13.8 V)	13.55962
T _{min} (-20 °C)	V _{nom} (DC 12.0 V)	13.55956
T _{min} (-10 °C)	V _{nom} (DC 12.0 V)	13.55958
T _{min} (0 °C)	V _{nom} (DC 12.0 V)	13.55960
T _{min} (10 °C)	V _{nom} (DC 12.0 V)	13.55960
T _{min} (20 °C)	V _{nom} (DC 12.0 V)	13.55968
T _{min} (30 °C)	V _{nom} (DC 12.0 V)	13.55971
T _{min} (40 °C)	V _{nom} (DC 12.0 V)	13.55975
T _{min} (50 °C)	V _{min} (DC 10.2 V)	13.55962
Max. frequency error (kHz)		0.13 (limit $\pm 135.6\text{KHz}$)

5.1.5 20dB Bandwidth

RESULT:

Pass

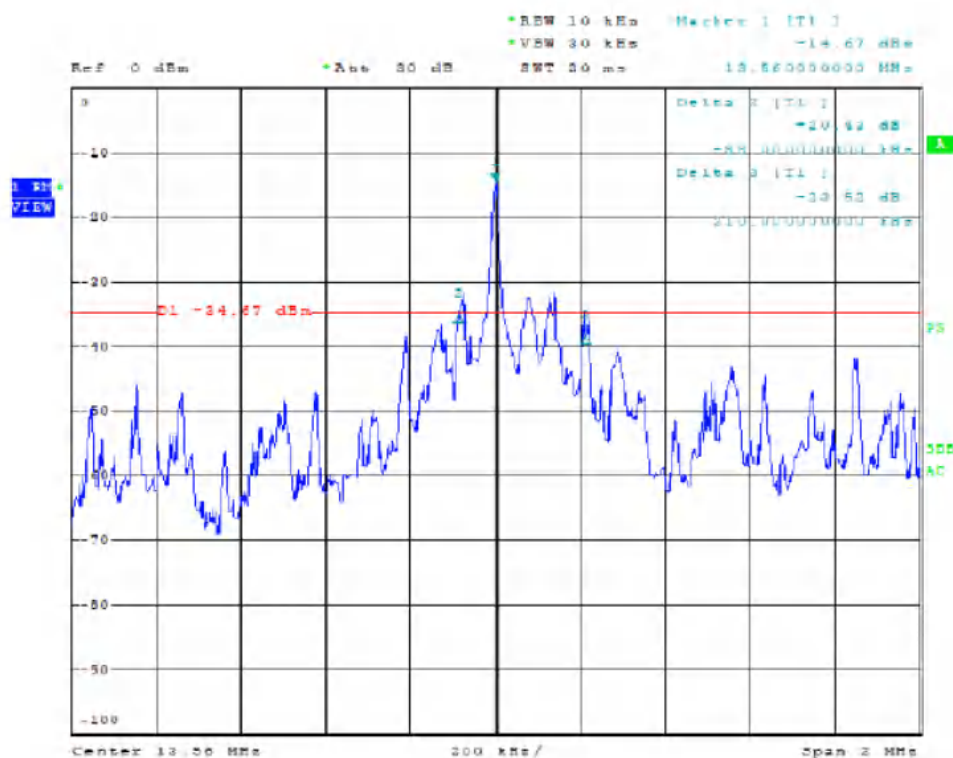
Test Specification

Test standard : FCC part 15.215
 Basic standard : ANSI C63.10-2020
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-11-22
 Input voltage : Fully charged battery
 Operation mode : A
 Ambient temperature : Not connected
 Relative humidity : 23 °C
 Atmospheric pressure : 101 kPa

For details refer to following test result.



Bandwidth: 298KHz

5.1.6 Conducted Emissions

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207
Basic standard	: ANSI C63.4: 2014
Frequency range	: 150 kHz – 30 MHz
Kind of test site	: Shielded Room
Limit	: FCC Part 15.207 (a)

Test Setup

Date of testing	: Refer to Appendix 1
Test voltage	: AC 120V, 60Hz
Operation mode	: A
Test Ports	: AC mains power port
Artificial hand	: N/A
Earthing	: Not connected
Ambient temperature	: Refer to Appendix 1
Relative humidity	: Refer to Appendix 1
Atmospheric pressure	: 101 kPa

Refer to Appendix A for details of test result.

6 Photographs of the Test Set-Up

Please refer to Appendix B of the set-up photo document.

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Appendix A: Test Results of 13.56MHz FSK

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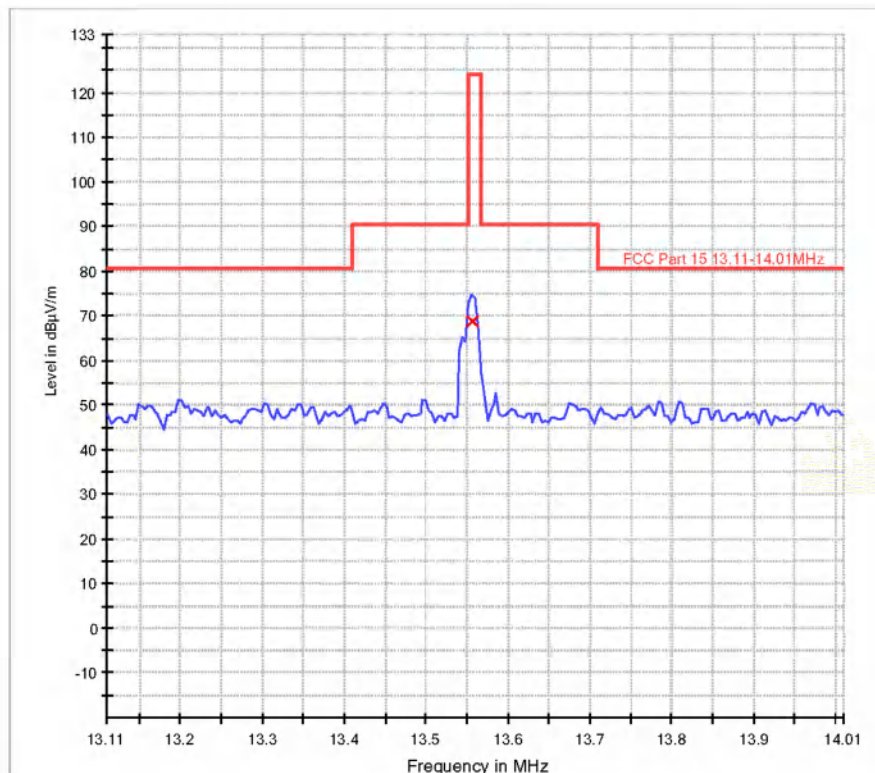
Appendix A.1: The field strength of Emission within the band

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	E-BIKE
Identification:	T09
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Receiver
Climate Condition:	22 °C; 50 %RH; 101 kPa
Test Voltage/Freq.:	Battery Powered
Receive No.:	170425394
Report No.:	/
Result:	Pass
Comment:	Test distance is 3m; X axis

Subrange 1	
Frequency range:	13.11M – 14.01MHz
Receiver:	ESCI 3
Transducer:	HFH2-Z2



Tested by: *Mark Luo*
20251111

Reviewed by: *Jacky Chen*
20251111

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
13.556000	69.5	1000.0	9.000	X	18.9	58.5	124.0

Tested by: 
20251111

Reviewed by: 
20251111

TUV Rheinland (Guangdong) Ltd.

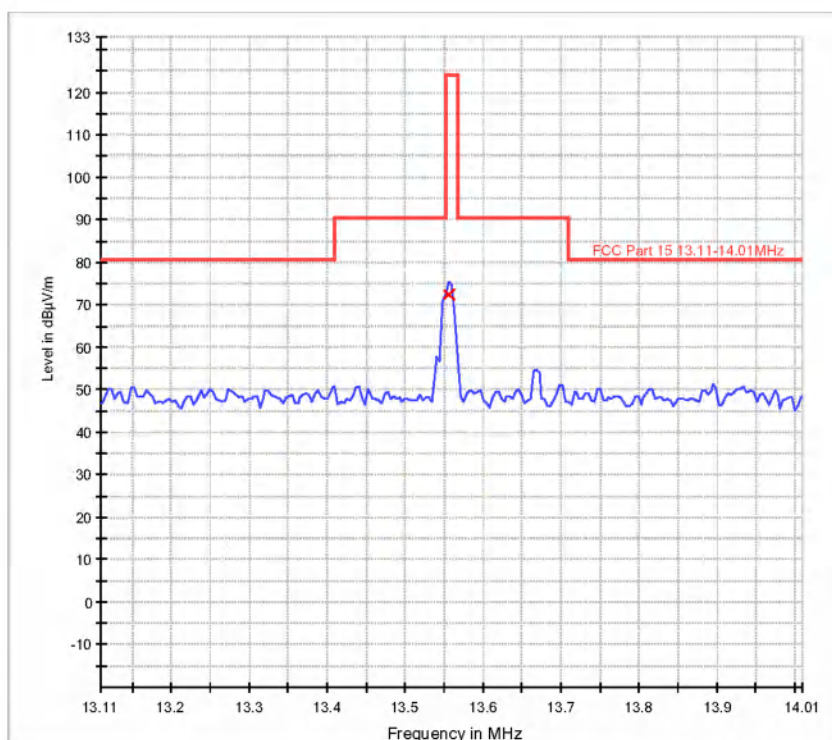
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	E-BIKE
Identification:	T09
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Receiver
Climate Condition:	22 °C; 50 %RH; 101 kPa
Test Voltage/Freq.:	Battery Powered
Receive No.:	170425394
Report No.:	/
Result:	Pass
Comment:	Test distance is 3m; Y axis

Subrange 1	
Frequency range:	13.11M – 14.01MHz
Receiver:	ESCI 3
Transducer:	HFH2-Z2



Tested by:

Mark Luo
20251111

Reviewed by:

Jacky Chen
20251111

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
13.556000	72.3	1000.0	9.000	Y	18.9	51.7	124.0

Tested by: 
20251111

Reviewed by: 
20251111

TUV Rheinland (Guangdong) Ltd.

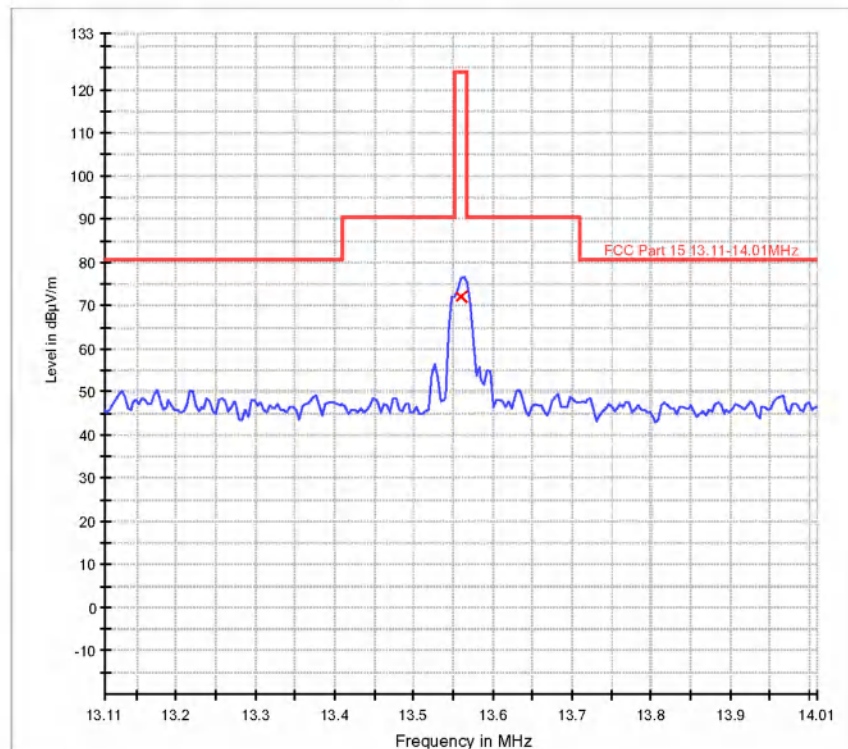
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:
Test Item: E-BIKE
Identification: T09
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: Receiver
Climate Condition: 22 °C; 50 %RH; 101 kPa
Test Voltage/Freq.: Battery Powered
Receive No.: 170425394
Report No.: /
Result: Pass
Comment: Test distance is 3m; Z axis

Subrange 1
Frequency range: 13.11M – 14.01MHz
Receiver: ESCI 3
Transducer: HFH2-Z2



Tested by:

Mark Luo
20251111

Reviewed by:

Jacky Chen
20251111

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
13.560000	72.2	1000.0	9.000	Z	18.9	51.8	124.0

Tested by: 
20251111

Reviewed by: 
20251111

Appendix A.2: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics, so only the radiated spurious emissions from 9KHz to 30MHz were reported.

9KHz - 30MHz

TUV Rheinland (Guangdong) Ltd.

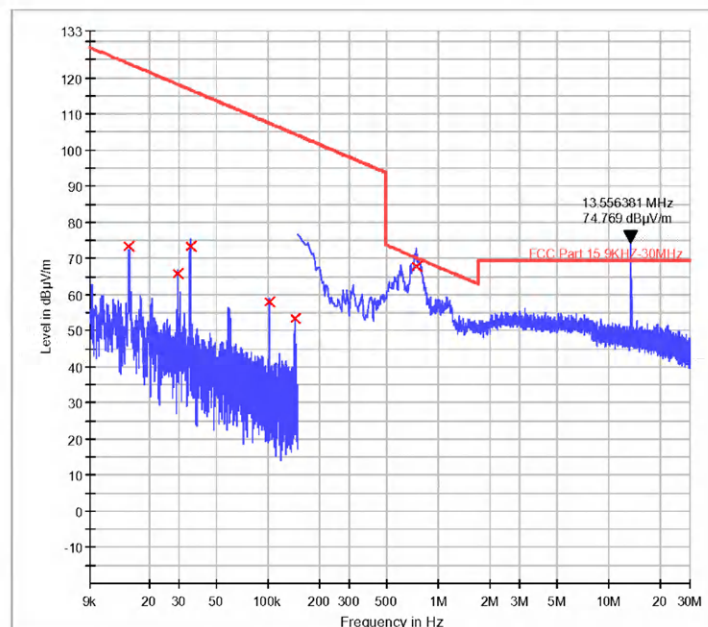
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	E-BIKE
Identification:	T09
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	NFC
Climate Condition:	26 °C, 53 %, 101kPa
Test Voltage/ Freq:	/
Receipt No:	170419036
Report No:	
Result:	Pass
Comment:	Test distance is 3m; X

Subrange 1	
Frequency range:	9k-30MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:	Mark Luo	Reviewed by:	Jacky Chen
	20251111		20251112

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
0.015300	73.5	1000.0	0.200	X	40.9	50.4	123.9
0.029400	65.7	1000.0	0.200	X	40.5	52.5	118.2
0.034900	73.4	1000.0	0.200	X	40.5	43.4	116.7
0.101000	57.9	1000.0	0.200	X	40.4	49.6	107.5
0.143000	53.5	1000.0	0.200	X	40.4	51.0	104.5
0.740000	67.7	1000.0	9.000	X	40.4	2.5	70.2

Tested by:

Mark Luo

20251111

Reviewed by:

Jacky Chen

20251112

TUV Rheinland (Guangdong) Ltd.

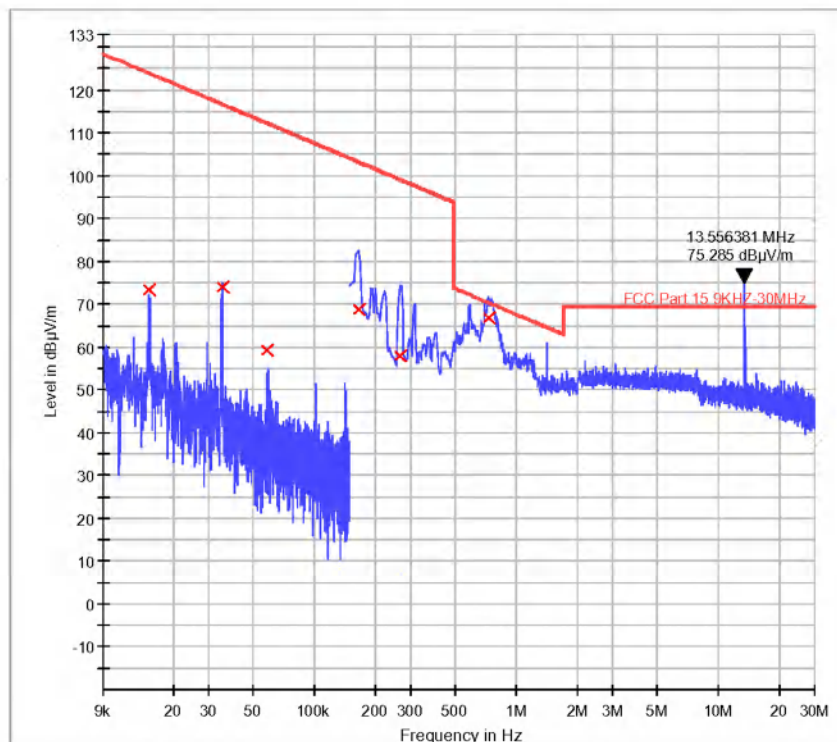
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:
Test Item: E-BIKE
Identification: T09
Test Standard: FCC Part 15B
Test Detail: Radiated Emission
Operation Mode: NFC TX
Climate Condition: 26 °C, 53 %, 101kPa
Test Voltage/ Freq: AC 230 V / 50 Hz
Receipt No: 170419036
Report No:
Result: Pass
Comment: Test distance is 3m; Y

Subrange 1
Frequency range: 9k-30MHz
Receiver: ESI 3
Transducer: VULB9168



Tested by: *Mark Luo*
20251111

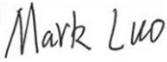
Reviewed by: *Jacky Chen*
20251112

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
0.015300	73.4	1000.0	0.200	Y	40.9	50.5	123.9
0.034800	74.0	1000.0	0.200	Y	40.5	42.7	116.8
0.058700	59.3	1000.0	0.200	Y	40.5	52.9	112.2
0.165000	68.7	1000.0	9.000	Y	40.4	34.6	103.2
0.266000	57.9	1000.0	9.000	Y	40.4	41.2	99.1
0.725000	66.9	1000.0	9.000	Y	40.4	3.5	70.4

Tested by:  20251111
Reviewed by:  20251112

TUV Rheinland (Guangdong) Ltd.

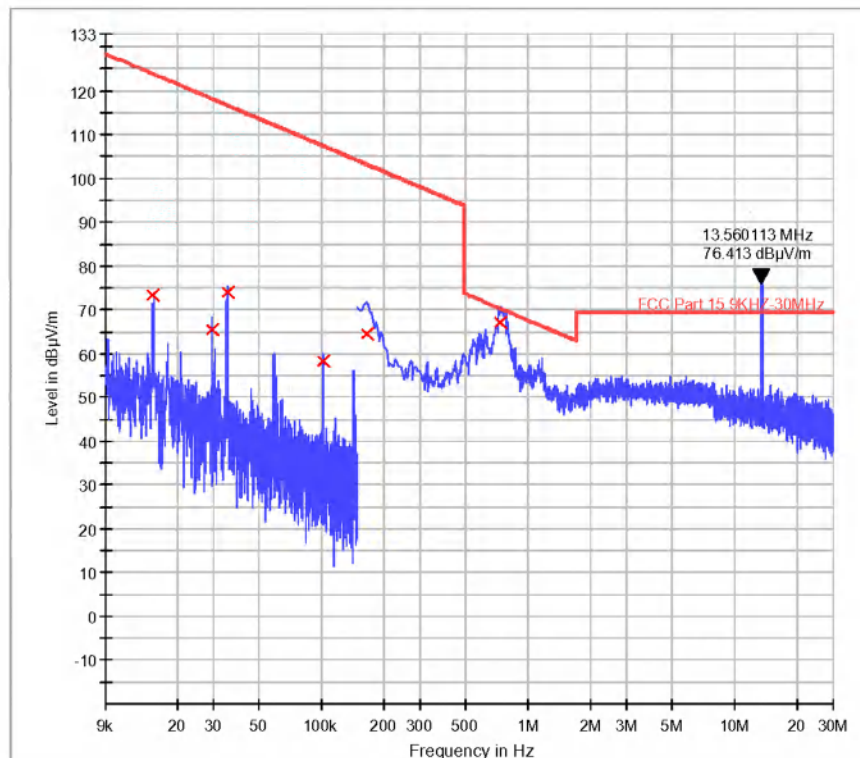
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:
Test Item: E-BIKE
Identification: T09
Test Standard: FCC Part 15B
Test Detail: Radiated Emission
Operation Mode: NFC TX
Climate Condition: 26 °C, 53 %, 101kPa
Test Voltage/ Freq: AC 230 V / 50 Hz
Receipt No: 170419036
Report No:
Result: Pass
Comment: Test distance is 3m; Z

Subrange 1
Frequency range: 9k-30MHz
Receiver: ESCI 3
Transducer: VULB9168



Tested by: *Mark Luo* 20251111
Reviewed by: *Jacky Chen* 20251112

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
0.015300	73.2	1000.0	0.200	Z	40.9	50.7	123.9
0.029300	65.6	1000.0	0.200	Z	40.5	52.7	118.3
0.034800	74.0	1000.0	0.200	Z	40.5	42.8	116.8
0.101000	58.3	1000.0	0.200	Z	40.4	49.2	107.5
0.165000	64.4	1000.0	9.000	Z	40.4	38.8	103.2
0.732000	67.1	1000.0	9.000	Z	40.4	3.2	70.3

Tested by:

Mark Luo
20251111

Reviewed by:

Jacky Chen
20251112

30MHz - 1000MHz

TUV Rheinland (Guangdong) Ltd.

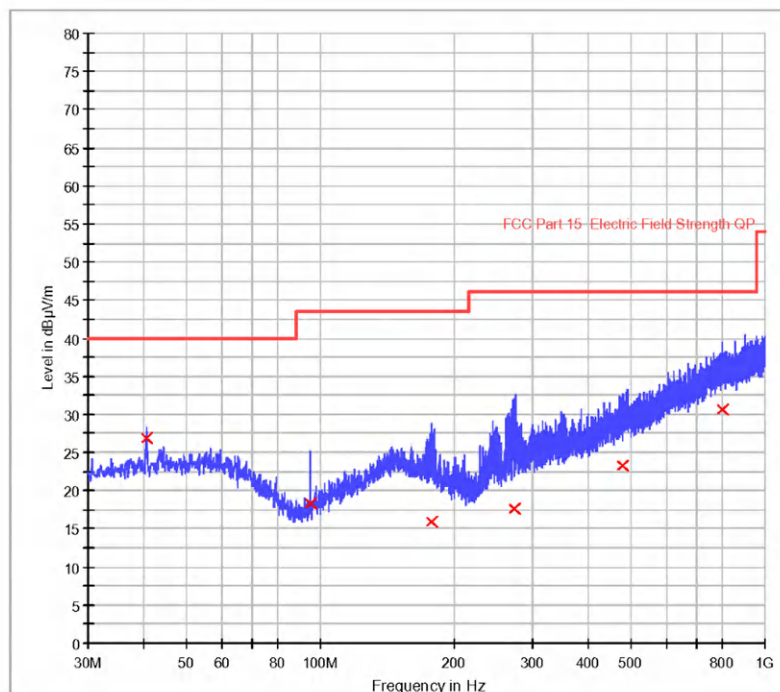
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:
Test Item: E-BIKE
Identification: T09
Test Standard: FCC Part 15
Test Detail: Radiated Emission
Operation Mode: NFC
Climate Condition: 26 °C, 53 %, 101kPa
Test Voltage/ Freq: /
Receipt No: 170419036
Report No:
Result: Pass
Comment: Test distance is 3m; Horizontal

Subrange 1
Frequency range: 30-1000MHz
Receiver: ESCI 3
Transducer: VULB9168



Tested by:

Mark Luo
20251110

Reviewed by:

Jacky Chen
20251112

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
40.680000	26.9	1000.0	120.000	H	20.2	13.2	40.0
94.880000	18.3	1000.0	120.000	H	15.5	25.2	43.5
178.040000	15.9	1000.0	120.000	H	19.8	27.6	43.5
271.880000	17.7	1000.0	120.000	H	21.1	28.3	46.0
478.280000	23.3	1000.0	120.000	H	27.1	22.7	46.0
799.320000	30.7	1000.0	120.000	H	33.5	15.3	46.0

Tested by:  20251110
Reviewed by:  20251112

TUV Rheinland (Guangdong) Ltd.

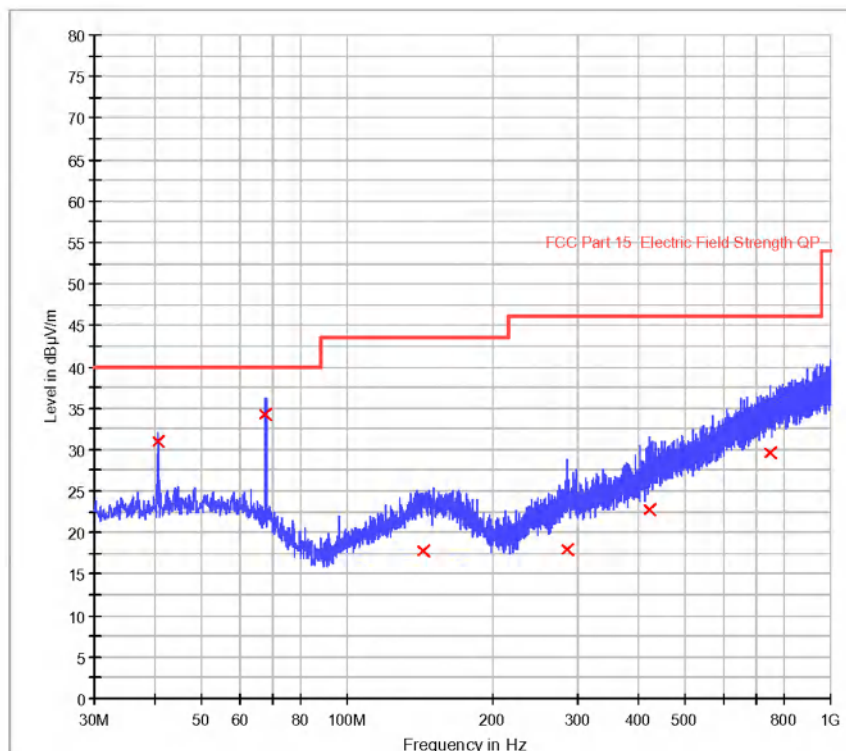
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	E-BIKE
Identification:	T09
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	NFC
Climate Condition:	26 °C, 53 %, 101kPa
Test Voltage/ Freq:	/
Receipt No:	170419036
Report No:	
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Mark Luo*
20251110

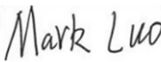
Reviewed by: *Jacky Chen*
20251112

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
40.680000	31.1	1000.0	120.000	V	20.2	8.9	40.0
67.720000	34.3	1000.0	120.000	V	19.1	5.7	40.0
143.000000	17.9	1000.0	120.000	V	20.9	25.6	43.5
284.520000	17.9	1000.0	120.000	V	21.6	28.1	46.0
421.280000	22.9	1000.0	120.000	V	25.4	23.1	46.0
751.440000	29.7	1000.0	120.000	V	32.6	16.3	46.0

Tested by:  Mark Luo
20251110

Reviewed by:  Jocky Chen
20251112

Appendix A.3: Test Results of Conducted Emission on AC Mains

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC TEST REPORT

Test Information

Manufacturer:
Test Item:
Identification: Olto
Test Standard: FCC Part 15B
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 22 °C; 55 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V/ 60 Hz
Port / Line: AC Mains
Receipt No.: 170425394
Report No.: /
Result: Pass
Comment: With battery SAW24A-150-2000U

Hardware Setup: LISN ENV 216 to ESU 26
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4 kHz	10ms	ESU 26

Tested by:  20251028

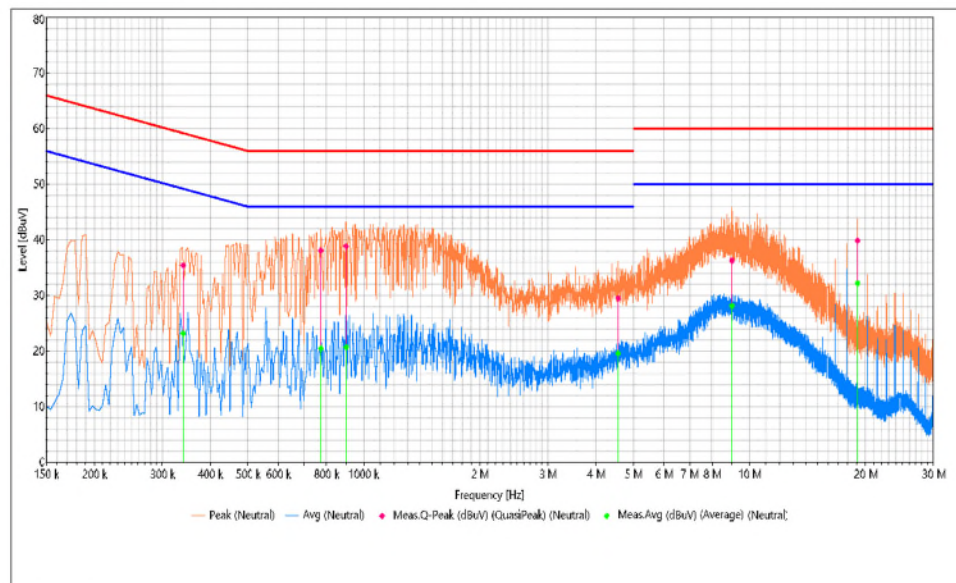
Approved by:  20251031

TUV Rheinland (Guangdong) Ltd.

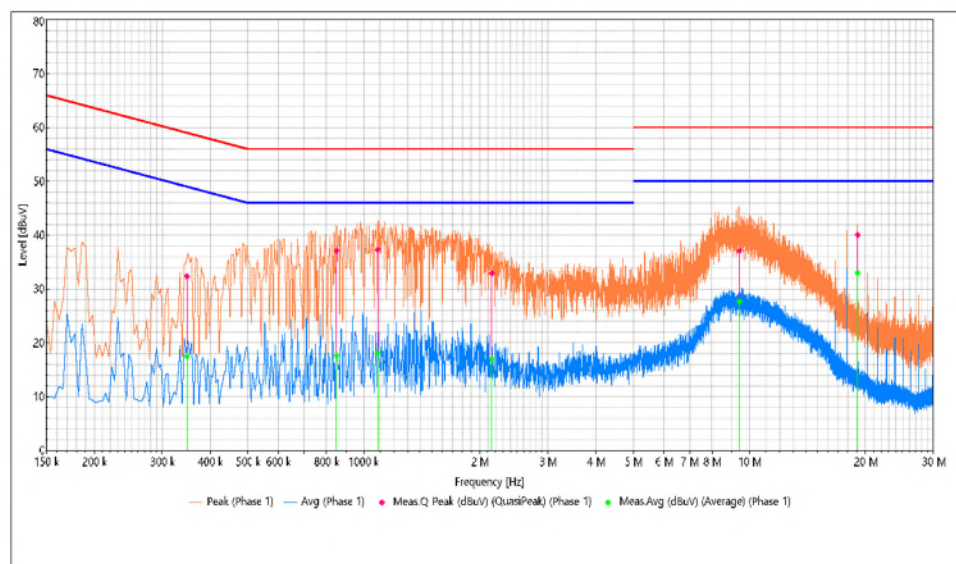
EMC Test Service Hotline: +86-20-28391188

1 Graph by Position

Position Name : Neutral



Position Name : Phase 1



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

2 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
340.249 kHz	1	35.418	59.155	-23.736	Neutral	9000	1	Pass	9.639
774 kHz	1	38.099	56	-17.901	Neutral	9000	1	Pass	9.657
900.25 kHz	1	38.848	56	-17.152	Neutral	9000	1	Pass	9.662
4.5695 MHz	1	29.512	56	-26.488	Neutral	9000	1	Pass	9.721
9.01575 MHz	1	36.293	60	-23.707	Neutral	9000	1	Pass	9.792
19.091749 MHz	1	39.886	60	-20.114	Neutral	9000	1	Pass	9.911

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
340.249 kHz	1	23.176	49.155	-25.978	Neutral	9000	1	Pass	9.639
774 kHz	1	20.485	46	-25.515	Neutral	9000	1	Pass	9.657
900.25 kHz	1	20.723	46	-25.277	Neutral	9000	1	Pass	9.662
4.5695 MHz	1	19.616	46	-26.384	Neutral	9000	1	Pass	9.721
9.01575 MHz	1	28.162	50	-21.838	Neutral	9000	1	Pass	9.792
19.091749 MHz	1	32.195	50	-17.805	Neutral	9000	1	Pass	9.911

3 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
347.749 kHz	2	32.365	59.058	-26.693	Phase 1	9000	1	Pass	9.629
850 kHz	2	37.128	56	-18.872	Phase 1	9000	1	Pass	9.651
1.08775 MHz	2	37.343	56	-18.657	Phase 1	9000	1	Pass	9.655
2.149499 MHz	2	32.945	56	-23.055	Phase 1	9000	1	Pass	9.678
9.42425 MHz	2	37.101	60	-22.899	Phase 1	9000	1	Pass	9.788
19.08775 MHz	2	40.061	60	-19.939	Phase 1	9000	1	Pass	9.911

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
347.749 kHz	2	17.514	49.058	-31.544	Phase 1	9000	1	Pass	9.629
850 kHz	2	17.612	46	-28.388	Phase 1	9000	1	Pass	9.651
1.08775 MHz	2	18.165	46	-27.835	Phase 1	9000	1	Pass	9.655
2.149499 MHz	2	17.042	46	-28.958	Phase 1	9000	1	Pass	9.678
9.42425 MHz	2	27.669	50	-22.331	Phase 1	9000	1	Pass	9.788
19.08775 MHz	2	32.976	50	-17.024	Phase 1	9000	1	Pass	9.911

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

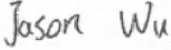
EMC TEST REPORT

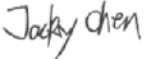
Test Information

Manufacturer:
Test Item:
Identification: Olto
Test Standard: FCC Part 15B
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 22 °C; 55 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V/ 60 Hz
Port / Line: AC Mains
Receipt No.: 170425394
Report No.: /
Result: Pass
Comment: With charger LBC055581060 + USB C: DC 5V, 3.3A

Hardware Setup: LISN ENV 216 to ESU 26
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4 kHz	10ms	ESU 26

Tested by:  20251028

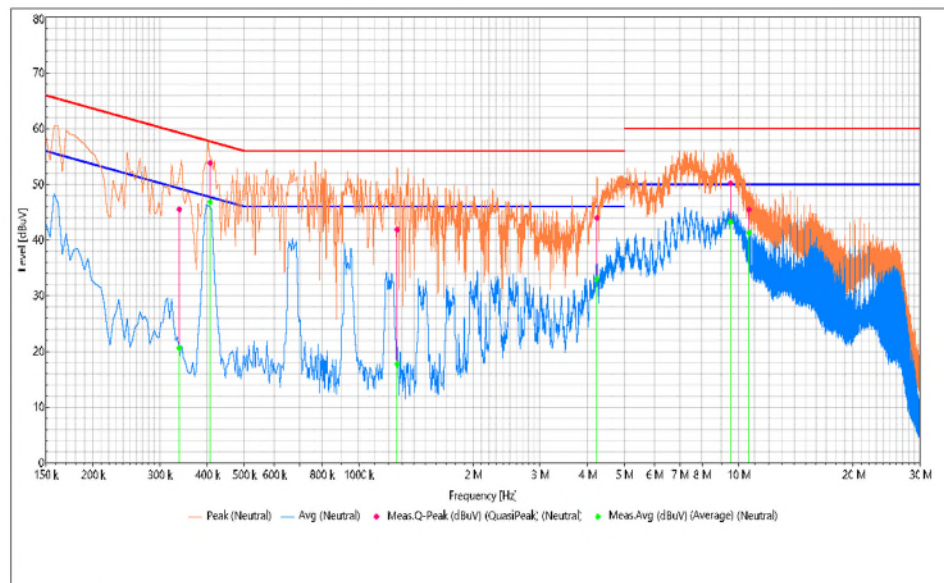
Approved by:  20251031

TUV Rheinland (Guangdong) Ltd.

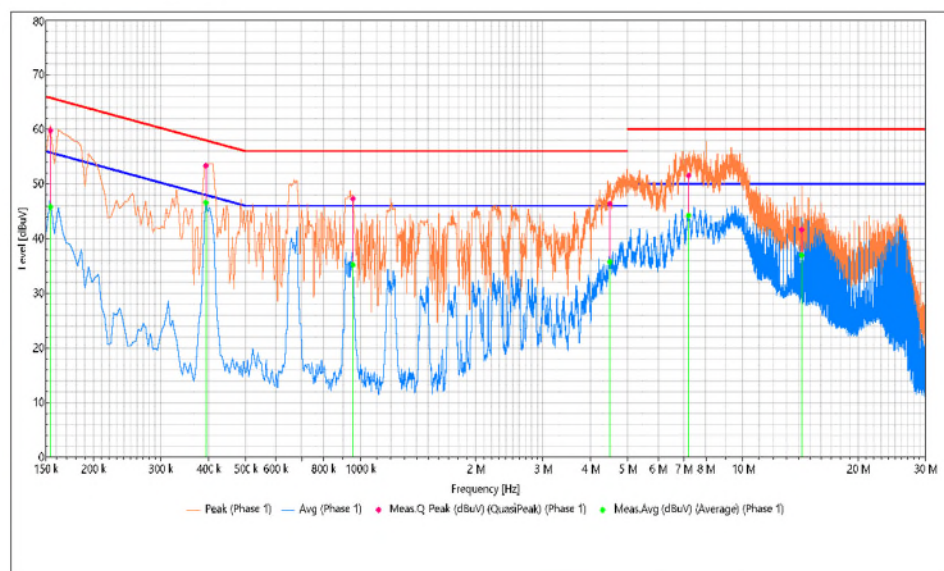
EMC Test Service Hotline: +86-20-28391188

1 Graph by Position

Position Name : Neutral



Position Name : Phase 1



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

2 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
337.499 kHz	1	45.51	59.252	-13.742	Neutral	9000	1	Pass	9.639
406.499 kHz	1	53.813	57.73	-3.917	Neutral	9000	1	Pass	9.64
1.262 MHz	1	41.931	56	-14.069	Neutral	9000	1	Pass	9.657
4.2335 MHz	1	43.935	56	-12.065	Neutral	9000	1	Pass	9.72
9.5145 MHz	1	50.191	60	-9.809	Neutral	9000	1	Pass	9.799
10.6535 MHz	1	45.489	60	-14.511	Neutral	9000	1	Pass	9.815

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
337.499 kHz	1	20.625	49.252	-28.627	Neutral	9000	1	Pass	9.639
406.499 kHz	1	46.837	47.73	-0.892	Neutral	9000	1	Pass	9.64
1.262 MHz	1	17.722	46	-28.278	Neutral	9000	1	Pass	9.657
4.2335 MHz	1	33.034	46	-12.966	Neutral	9000	1	Pass	9.72
9.5145 MHz	1	43.231	50	-6.769	Neutral	9000	1	Pass	9.799
10.6535 MHz	1	41.37	50	-8.63	Neutral	9000	1	Pass	9.815

3 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
154.5 kHz	2	59.767	65.781	-6.015	Phase 1	9000	1	Pass	9.637
393.999 kHz	2	53.337	57.979	-4.642	Phase 1	9000	1	Pass	9.63
954.5 kHz	2	47.291	56	-8.709	Phase 1	9000	1	Pass	9.653
4.486 MHz	2	46.395	56	-9.605	Phase 1	9000	1	Pass	9.711
7.206 MHz	2	51.519	60	-8.481	Phase 1	9000	1	Pass	9.755
14.2455 MHz	2	41.641	60	-18.359	Phase 1	9000	1	Pass	9.895

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
154.5 kHz	2	45.8	55.781	-9.981	Phase 1	9000	1	Pass	9.637
393.999 kHz	2	46.592	47.979	-1.387	Phase 1	9000	1	Pass	9.63
954.5 kHz	2	35.244	46	-10.756	Phase 1	9000	1	Pass	9.653
4.486 MHz	2	35.732	46	-10.268	Phase 1	9000	1	Pass	9.711
7.206 MHz	2	44.224	50	-5.776	Phase 1	9000	1	Pass	9.755
14.2455 MHz	2	36.98	50	-13.02	Phase 1	9000	1	Pass	9.895

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EMC Test Service Hotline: +86-20-28391188

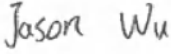
EMC TEST REPORT

Test Information

Manufacturer:
Test Item: Olto
Identification: OT01
Test Standard: FCC Part 15B
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 22 °C; 55 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V/ 60 Hz
Port / Line: AC Mains
Receipt No.: 170425394
Report No.: /
Result: Pass
Comment: With charger LBC055581060 + USB C: DC 12V, 2A

Hardware Setup: LISN ENV 216 to ESU 26
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4 kHz	10ms	ESU 26

Tested by:  20251028

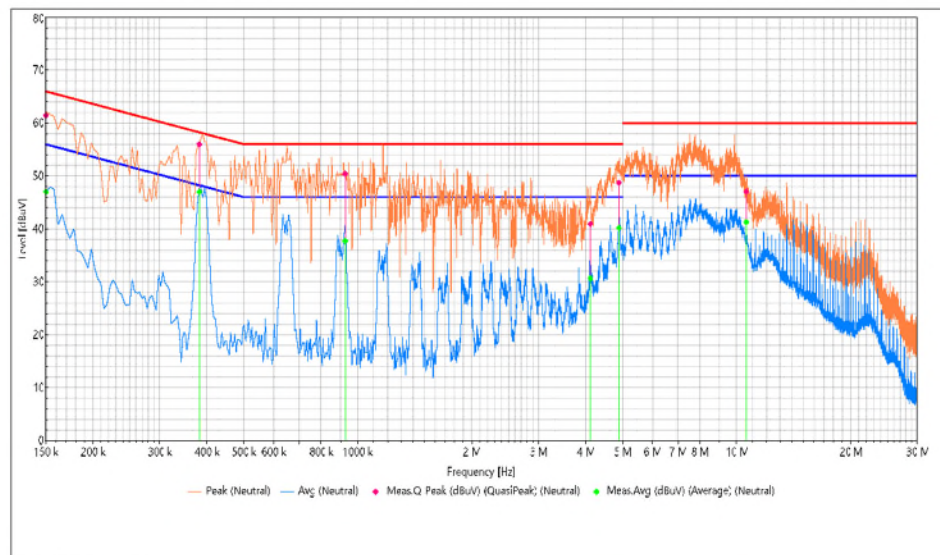
Approved by:  20251031

TUV Rheinland (Guangdong) Ltd.

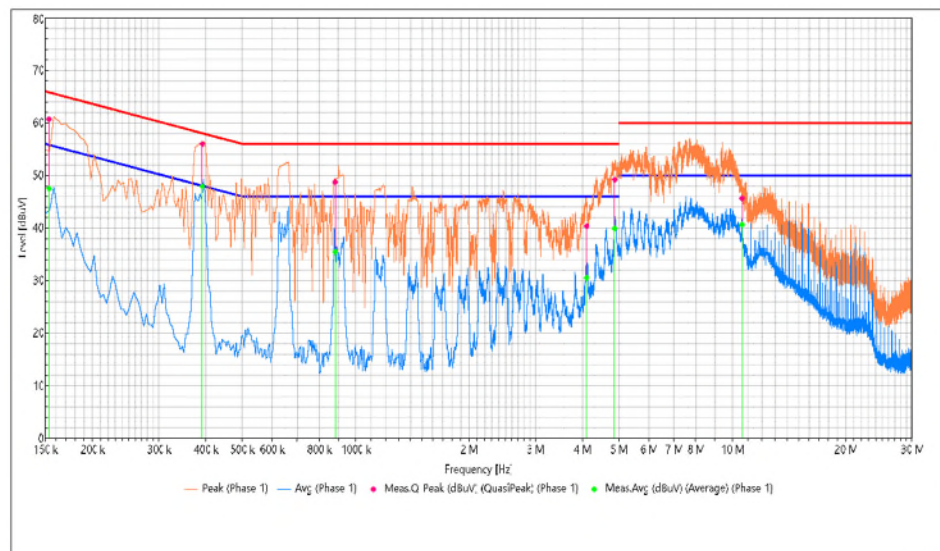
EMC Test Service Hotline: +86-20-28391188

1 Graph by Position

Position Name : Neutral



Position Name : Phase 1



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

2 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
150 kHz	1	61.417	66	-4.583	Neutral	9000	1	Pass	9.651
381.999 kHz	1	55.965	58.236	-2.271	Neutral	9000	1	Pass	9.64
926 kHz	1	50.445	56	-5.555	Neutral	9000	1	Pass	9.663
4.11225 MHz	1	40.95	56	-15.05	Neutral	9000	1	Pass	9.719
4.8895 MHz	1	48.707	56	-7.293	Neutral	9000	1	Pass	9.723
10.6095 MHz	1	47.064	60	-12.936	Neutral	9000	1	Pass	9.814

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
150 kHz	1	47.018	56	-8.982	Neutral	9000	1	Pass	9.651
381.999 kHz	1	47.041	48.236	-1.195	Neutral	9000	1	Pass	9.64
926 kHz	1	37.732	46	-8.268	Neutral	9000	1	Pass	9.663
4.11225 MHz	1	30.681	46	-15.319	Neutral	9000	1	Pass	9.719
4.8895 MHz	1	40.202	46	-5.798	Neutral	9000	1	Pass	9.723
10.6095 MHz	1	41.279	50	-8.721	Neutral	9000	1	Pass	9.814

3 Finals

Final source : QuasiPeak

Frequency	SR #	Meas.Q-Peak (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
153.5 kHz	2	60.706	65.781	-5.075	Phase 1	9000	1	Pass	9.638
391.75 kHz	2	55.993	58.064	-2.071	Phase 1	9000	1	Pass	9.63
882.5 kHz	2	48.735	56	-7.265	Phase 1	9000	1	Pass	9.652
4.1065 MHz	2	40.383	56	-15.617	Phase 1	9000	1	Pass	9.709
4.8735 MHz	2	49.196	56	-6.804	Phase 1	9000	1	Pass	9.713
10.6095 MHz	2	45.619	60	-14.381	Phase 1	9000	1	Pass	9.805

Final source : Average

Frequency	SR #	Meas.Avg (dBuV)	Limit (dBuV)	Meas.-Lim (dB)	Line	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
153.5 kHz	2	47.524	55.781	-8.257	Phase 1	9000	1	Pass	9.638
391.75 kHz	2	47.932	48.064	-0.132	Phase 1	9000	1	Pass	9.63
882.5 kHz	2	35.464	46	-10.536	Phase 1	9000	1	Pass	9.652
4.1065 MHz	2	30.547	46	-15.453	Phase 1	9000	1	Pass	9.709
4.8735 MHz	2	39.921	46	-6.079	Phase 1	9000	1	Pass	9.713
10.6095 MHz	2	40.688	50	-9.312	Phase 1	9000	1	Pass	9.805