

Prüfbericht-Nr.: <i>Test report no.:</i>	CN23LES7 001	Auftrags-Nr.: <i>Order no.:</i>	170344181	Seite 1 von 16 Page 1 of 16
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-05-31	
Auftraggeber: <i>Client:</i>	Shanghai Anfuote Technology Co., Ltd 4/F, No. 1, Ye Wang Road, Ye Xie Town, Songjiang District, Shanghai, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Portable Power Station			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	AFT1000, AFT1300			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215 CFR47 FCC Part 15: Subpart C Section 15.207			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-05-31	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	170344181-001/002			
Prüfzeitraum: <i>Testing period:</i>	2023-10-27 - 2023-10-28			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: tested by: Amy Wang		genehmigt von: authorized by: Storm Shu		
Datum: Date: 2023-11-29		Ausstellungsdatum: Issue date: 2023-11-29		
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2BB5I-AFT1000			
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
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. <i>This test report only relates to the above mentioned 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.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
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>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 99% BANDWIDTH

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION

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 FCC Part 15C

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Guangzhou Jingce Testing Technology Co., Ltd

No.192, Kezhu Road, Huangpu District, Guangzhou, Guangdong, China

FCC Accreditation Designation No.: CN1331

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum Analyzer	Keysight	N9030B	MY56320512	Sep. 11, 2024
DC POWER	Keysight	E342A	MY59020356	Jul. 13, 2024
Incubator thermometer	GWS	EL-02JA	21107288	Sep. 11, 2024
Control unit(Power sensor)	Tonscend	JS0806-2	/	Sep. 11, 2024
Wideband radio communication tester	R&S	CMW500	163478	Jul. 10, 2024
Vector Signal Generator	Keysight	N5182B	MY57300334	Sep. 11, 2024
Signal Generator	Keysight	N5171B	MY57280639	Sep. 11, 2024
Test software: TS+ (JS1120-3), Version V3.3.10				
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Receiver	R&S	ESW	101685	Jul. 11, 2024
Bilog Antenna	Schwarzbeck	VULB 9163	01416	Mar. 20, 2024
loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan.13,2024
3m Fully-anechoic Chamber	ETS	RFD-100	/	Apr. 23, 2024
Test software: TS+ (TS+), Version V3.3.10				

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:

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 1.1 \%$
All emissions, radiated (9k-30MHz)	$\pm 4.6 \text{ dB}$
All emissions, radiated (30M-1GHz)	$\pm 3.6 \text{ dB}$

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

Guangzhou Jingce Testing Technology Co., Ltd Test facility located at No.192, Kezhu Road, Huangpu District, Guangzhou, Guangdong, 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 model AFT1000 and AFT1300 are Portable Power Station for Class A MME products with LED lighting and supports wireless charging technologies.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Portable Power Station
Type Designation:	AFT1000, AFT1300
FCC ID:	2BB5I-AFT1000
Power Supply:	AC Input: AC 110V, 60Hz DC Input: DC 10-30V AC Output: AC 110V, 50Hz DC Output: DC 12V USB-C Output: DC 5V/3A, DC 9V/3A, DC 12V/3A, DC 20V/5A USB-A Output: DC 5V/3A, DC 9V/2A, DC 12V/1.5A WIRELESS OUTPUT 15W MAX
Battery:	Cell type: lithium-ion cell Cell capacity (rated): 3.6V, 3350mAh Rated capacity: 1013Wh (AFT 1000), 1302Wh (AFT 1300)
Operating Temperature Range:	0°C ~ +40 °C
Technical Specification of WPT	
Frequency Range:	111~205KHz
Type of Modulation:	FSK
Antenna Type:	Induction coil Antenna
Weight	11.61kg (AFT1000), 12.81Kg (AFT1300)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging (5W, 10W, 15W) find worst case.
- B. Idle mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- FCC Label and Location Info
- Operation Description
- Schematics
- Block Diagram
- Instruction Manual
- Parts List
- Photo Documents

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 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model AFT1000, AFT1300 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Wireless charging tester fixture	YBZ	/	/	5W, 7.5W, 10W, 15W

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)

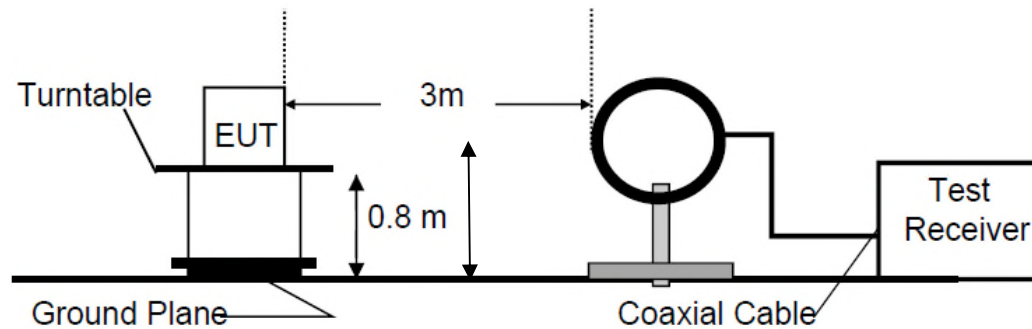
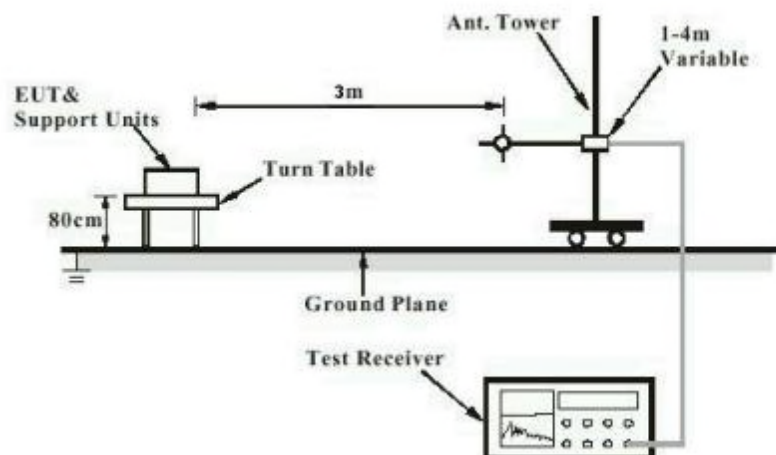


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

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

Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, and the antenna is 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.

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5.1.2 99% Bandwidth

RESULT:

Pass

Test Specification

Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-10-27
Input voltage : Power by battery
Operation mode : A
Ambient temperature : 23 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.215(c)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-10-27
Input voltage : Power by battery
Operation mode : A
Ambient temperature : 23 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Radiated Spurious Emission

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

Test standard	FCC Part 15.209 & 15.205
Basic standard	ANSI C63.10: 2013
Limits	Refer to 15.209(a)
Kind of test site	3m Semi-anechoic Chamber

Test Setup

Date of testing	2023-10-27 to 2023-10-30
Input voltage	Power by battery
Operation mode	A, B
Ambient temperature	23 °C
Relative humidity	56 %
Atmospheric pressure	101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A.1: Test Results of 20dB Bandwidth

Model: AFT1000

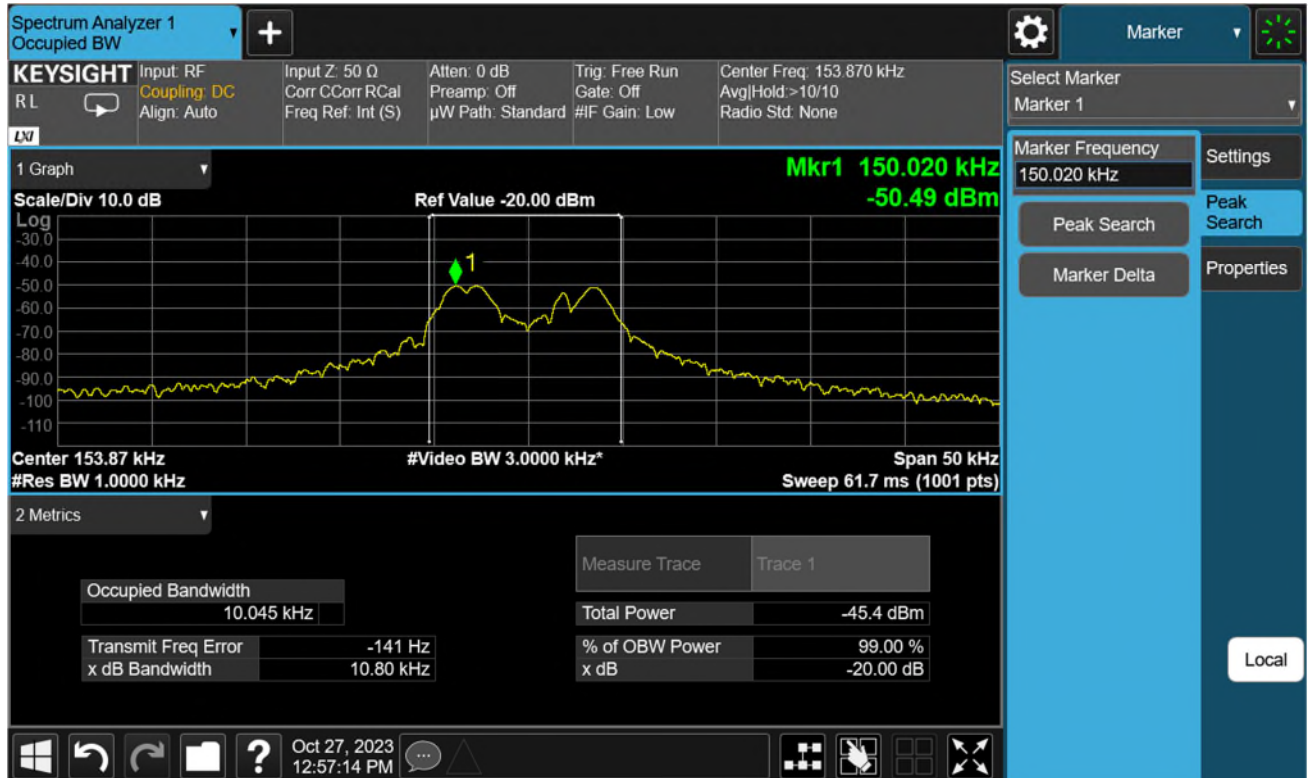


Model: AFT1300

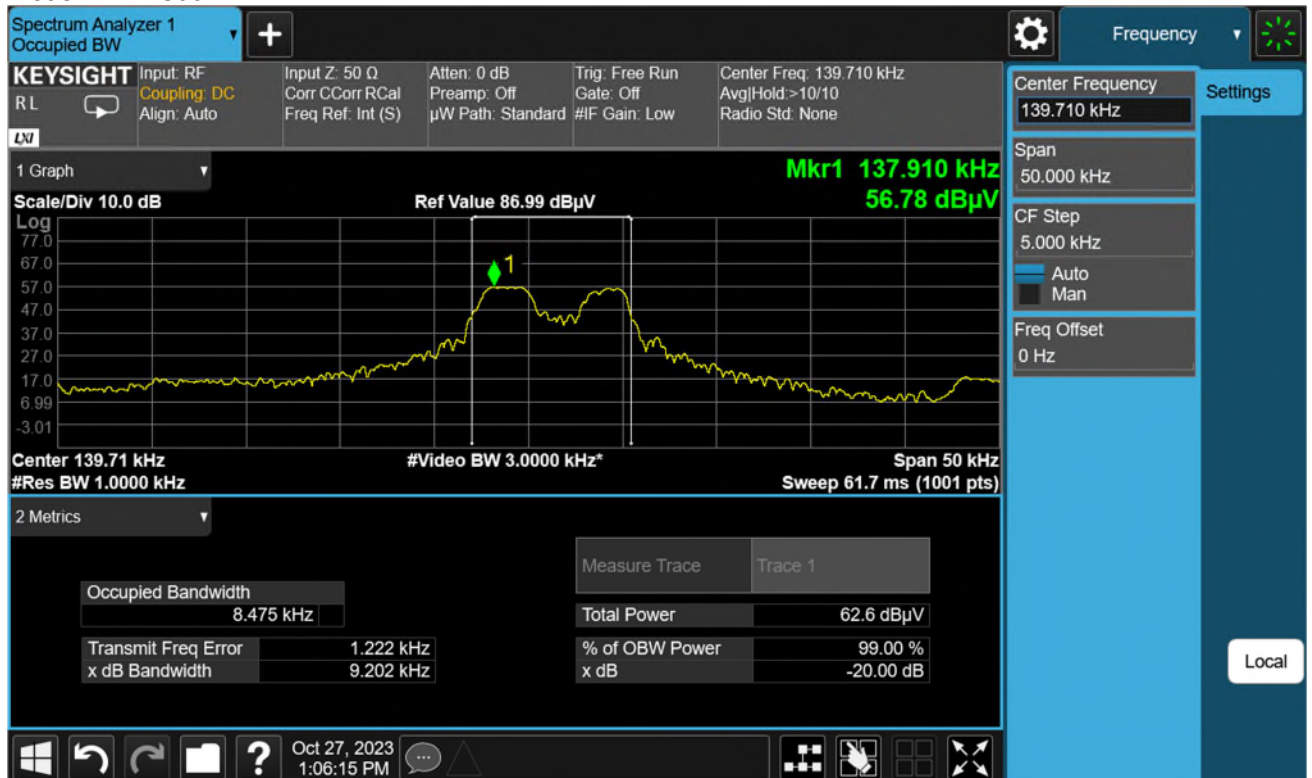


Appendix A.2: Test Results of 99% Bandwidth

Model: AFT1000



Model: AFT1300



Appendix A.3: Test Results of Radiated Spurious Emission

Note: The highest waveform in the figure is Fundamental.

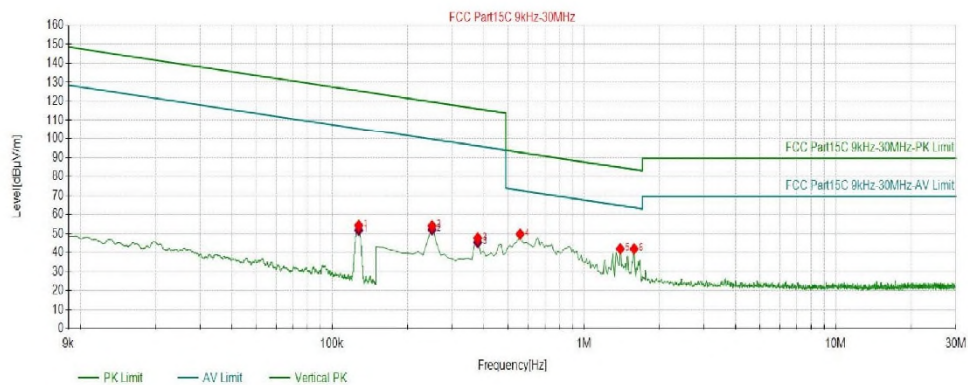
9kHz - 30MHz

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1000	SN:	X
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:23:27

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1275	54.26	18.75	125.49	71.23	100	260	PK	Vertical
2	0.2495	54.06	18.69	119.66	65.60	100	254	PK	Vertical
3	0.3789	47.63	18.62	116.03	68.40	100	250	PK	Vertical
4	0.5581	49.72	18.56	72.67	22.95	100	146	PK	Vertical
5	1.3942	41.93	18.57	64.72	22.79	100	254	PK	Vertical
6	1.5833	41.91	18.57	63.61	21.70	100	4	PK	Vertical

AV Final Data List

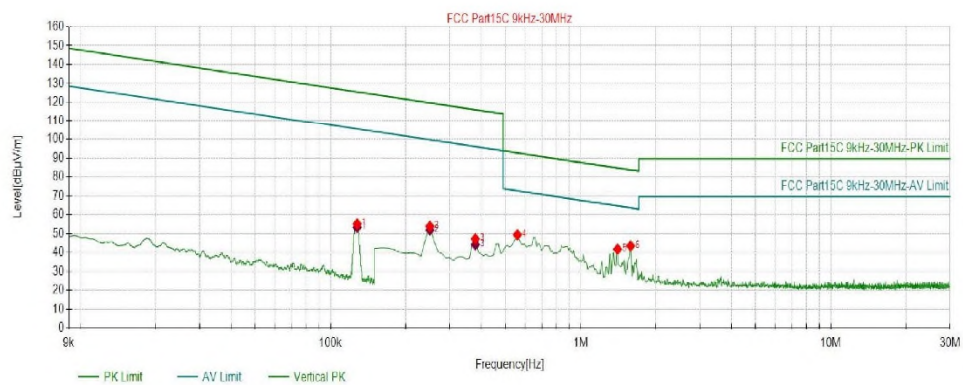
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1275	18.75	51.74	105.49	53.75	100	260	Vertical
2	0.2495	18.69	51.95	99.66	47.71	100	254	Vertical
3	0.3789	18.62	45.32	96.03	50.71	100	250	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1000	SN:	Y
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:26:54

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1276	55.10	18.75	125.48	70.38	100	254	PK	Vertical
2	0.2495	53.83	18.69	119.66	65.83	100	247	PK	Vertical
3	0.3789	47.16	18.62	116.03	68.87	100	277	PK	Vertical
4	0.5581	49.36	18.56	72.67	23.31	100	55	PK	Vertical
5	1.4041	41.70	18.57	64.66	22.96	100	34	PK	Vertical
6	1.5833	43.41	18.57	63.61	20.20	100	231	PK	Vertical

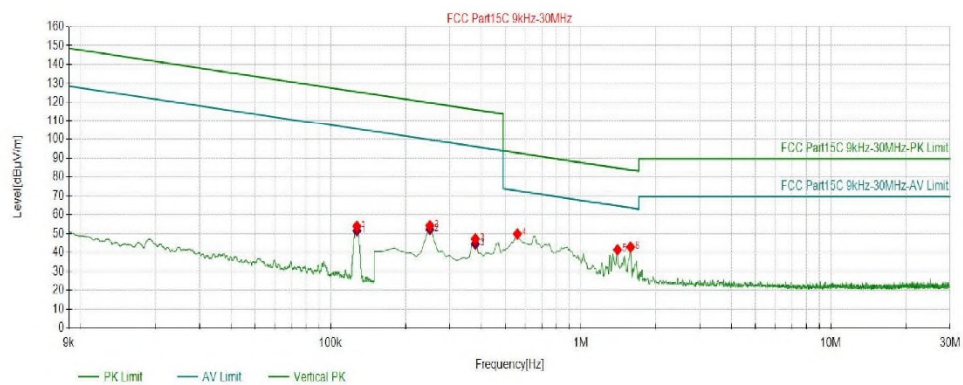
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1276	18.75	53.31	105.49	52.18	100	254	Vertical
2	0.2495	18.69	51.90	99.66	47.76	100	247	Vertical
3	0.3789	18.62	44.09	96.03	51.94	100	277	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1000	SN:	Z
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:28:50

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1273	53.87	18.75	125.51	71.64	100	247	PK	Vertical
2	0.2495	54.19	18.69	119.66	65.47	100	266	PK	Vertical
3	0.3789	47.17	18.62	116.03	68.86	100	306	PK	Vertical
4	0.5581	49.81	18.56	72.67	22.86	100	216	PK	Vertical
5	1.4041	41.36	18.57	64.66	23.30	100	167	PK	Vertical
6	1.5833	42.84	18.57	63.61	20.77	100	38	PK	Vertical

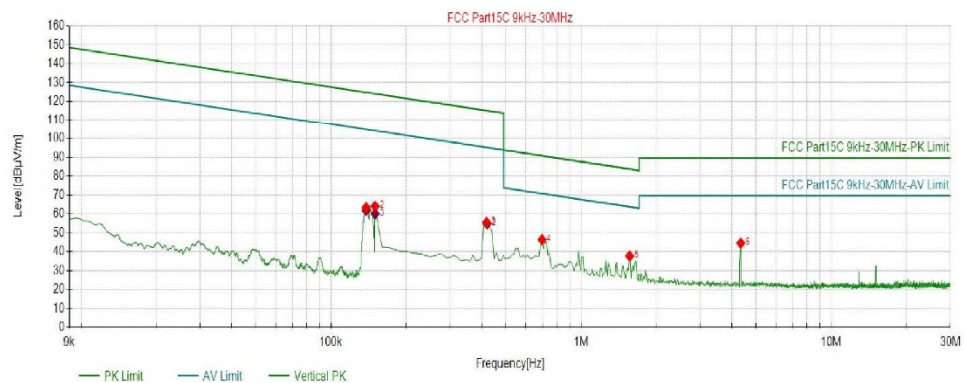
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1273	18.75	51.44	105.51	54.07	100	247	Vertical
2	0.2495	18.69	52.14	99.66	47.52	100	266	Vertical
3	0.3789	18.62	44.40	96.03	51.63	100	306	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	X
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 11:20:12

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1381	63.30	18.74	124.80	61.50	100	118	PK	X
2	0.1500	64.00	18.74	124.08	60.08	100	271	PK	X
3	0.4187	55.50	18.60	115.17	59.67	100	117	PK	X
4	0.6974	46.32	18.56	70.73	24.41	100	282	PK	X
5	1.5634	37.68	18.57	63.72	26.04	100	238	PK	X
6	4.3503	44.49	18.59	69.54	25.05	100	290	PK	X

AV Final Data List

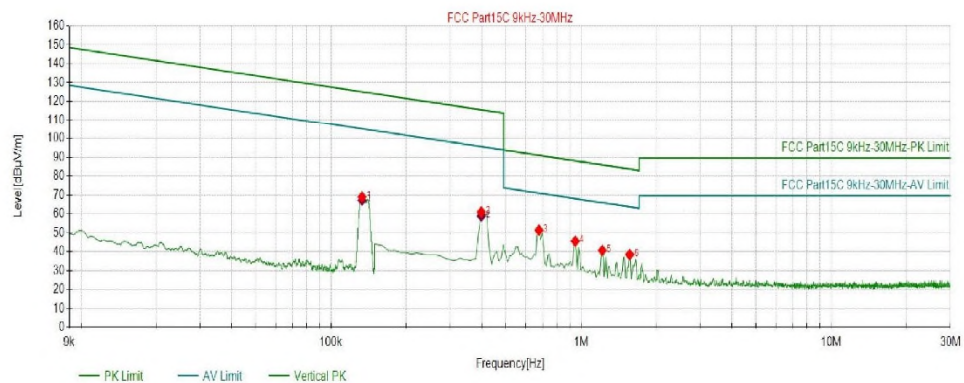
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1381	18.74	61.85	104.80	42.95	100	118	X
2	0.4208	18.60	54.71	95.12	40.41	100	121.8	X
3	0.1500	18.74	59.99	104.08	44.09	100	298	X

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	Y
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 11:13:49

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1329	68.97	18.74	125.13	56.16	100	358	PK	Y
2	0.3988	61.03	18.61	115.59	54.56	100	6	PK	Y
3	0.6775	51.32	18.56	90.99	39.67	100	360	PK	Y
4	0.9463	45.55	18.57	68.08	22.53	100	360	PK	Y
5	1.2150	40.66	18.57	65.91	25.25	100	26	PK	Y
6	1.5634	38.46	18.57	63.72	25.26	100	143	PK	Y

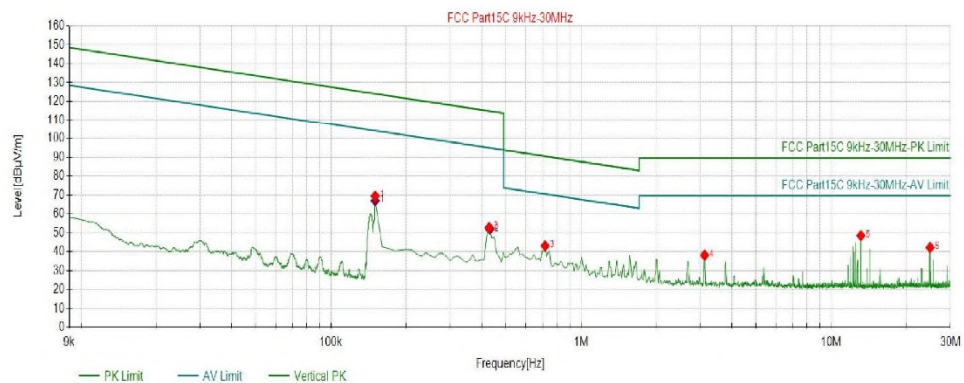
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1329	18.74	67.26	105.13	37.87	100	358	Y
2	0.3988	18.61	58.82	95.59	36.77	100	6	Y

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	Z
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 11:31:55

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1500	69.45	18.74	124.08	54.63	100	81	PK	Z
2	0.4287	52.78	18.60	114.96	62.18	100	39	PK	Z
3	0.7173	43.06	18.56	70.49	27.43	100	47	PK	Z
4	3.1161	38.12	18.59	69.54	31.42	100	150	PK	Z
5	13.1490	48.48	18.83	69.54	21.06	100	88	PK	Z
6	24.8641	42.16	19.31	69.54	27.38	100	142	PK	Z

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1500	18.74	66.96	104.08	37.12	100	86	Z
2	0.4308	18.60	51.84	94.92	43.08	160	47.4	Z

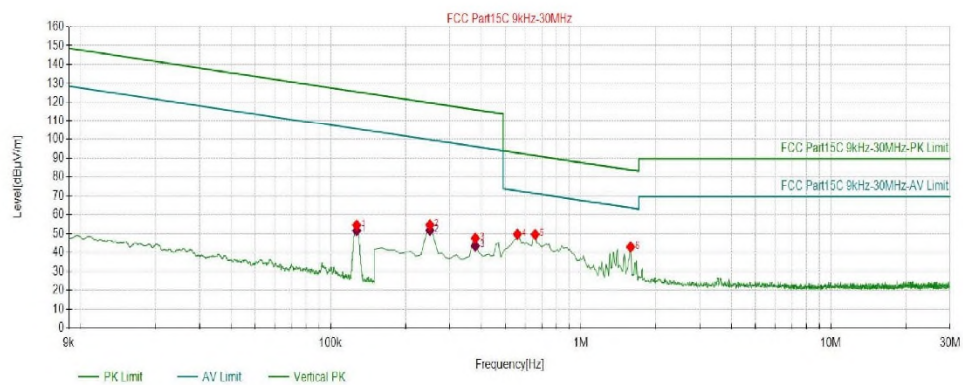
Roger Li

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1300	SN:	Z
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:32:25

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1271	54.42	18.75	125.52	71.10	100	53	PK	Vertical
2	0.2495	54.56	18.69	119.66	65.10	100	27	PK	Vertical
3	0.3789	47.52	18.62	116.03	68.51	100	30	PK	Vertical
4	0.5581	49.67	18.56	72.67	23.00	100	266	PK	Vertical
5	0.6576	49.51	18.56	71.24	21.73	100	307	PK	Vertical
6	1.5833	42.90	18.57	63.61	20.71	100	229	PK	Vertical

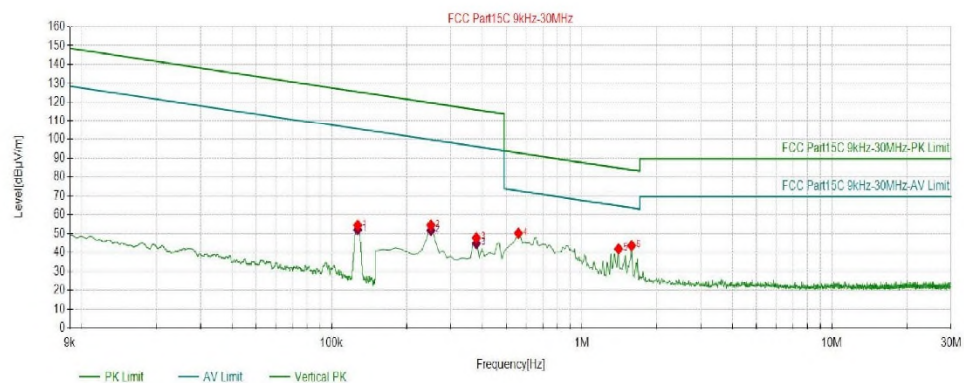
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1271	18.75	51.53	105.52	53.99	100	53	Vertical
2	0.2495	18.69	51.70	99.66	47.96	100	27	Vertical
3	0.3789	18.62	43.43	96.03	52.60	100	30	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1300	SN:	Y
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:34:04

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1271	54.39	18.75	125.52	71.13	100	46	PK	Vertical
2	0.2495	54.45	18.69	119.66	65.21	100	50	PK	Vertical
3	0.3789	47.71	18.62	116.03	68.32	100	43	PK	Vertical
4	0.5581	50.19	18.56	72.67	22.48	100	17	PK	Vertical
5	1.4041	41.86	18.57	64.66	22.80	100	125	PK	Vertical
6	1.5833	43.55	18.57	63.61	20.06	100	21	PK	Vertical

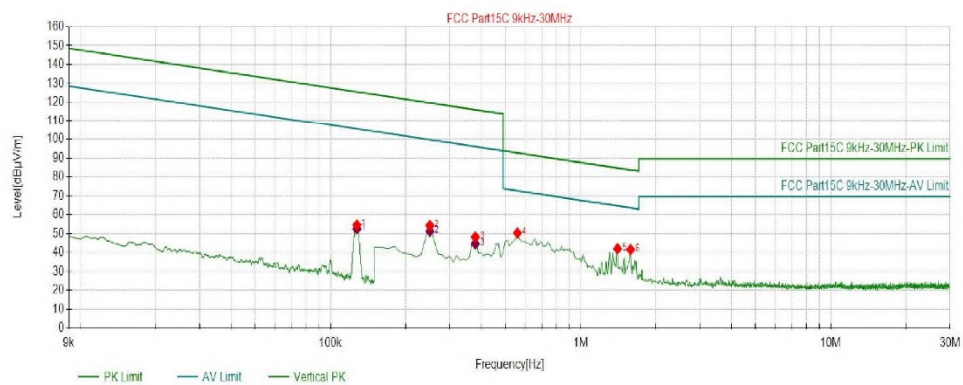
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1271	18.75	51.97	105.52	53.55	100	46	Vertical
2	0.2495	18.69	51.64	99.66	48.02	100	50	Vertical
3	0.3789	18.62	44.73	96.03	51.30	100	43	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	23.6°C 52%
Model:	AFT1300	SN:	X
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-30 19:36:22

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1273	54.51	18.75	125.51	71.00	100	51	PK	Vertical
2	0.2495	54.25	18.69	119.66	65.41	100	46	PK	Vertical
3	0.3789	48.14	18.62	116.03	67.89	100	340	PK	Vertical
4	0.5581	50.29	18.56	72.67	22.38	100	191	PK	Vertical
5	1.4041	41.94	18.57	64.66	22.72	100	35	PK	Vertical
6	1.5833	41.48	18.57	63.61	22.13	100	42	PK	Vertical

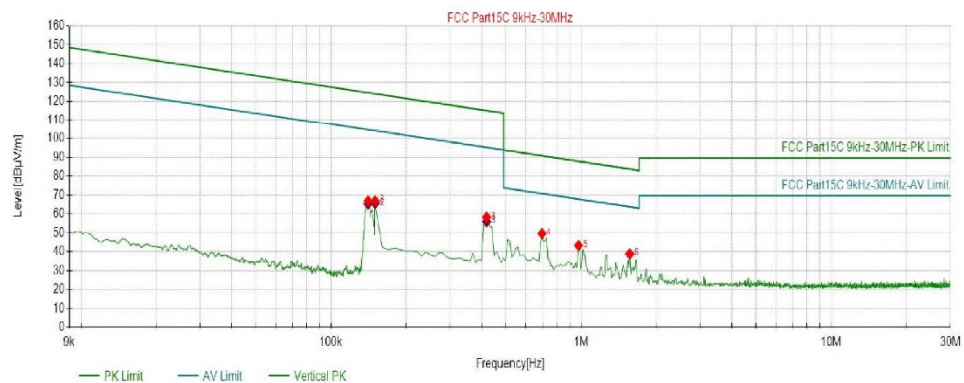
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1273	18.75	52.48	105.51	53.03	100	51	Vertical
2	0.2495	18.69	51.20	99.66	48.46	100	46	Vertical
3	0.3789	18.62	44.51	96.03	51.52	100	340	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	X
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 10:21:08

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.1406	66.78	18.74	124.64	57.86	100	179	PK	X
2	0.1500	66.82	18.74	124.08	57.26	100	322	PK	X
3	0.4187	58.27	18.60	115.17	56.90	100	147	PK	X
4	0.6974	49.56	18.56	70.73	21.17	100	127	PK	X
5	0.9761	43.23	18.57	67.81	24.58	100	150	PK	X
6	1.5634	38.80	18.57	63.72	24.92	100	340	PK	X

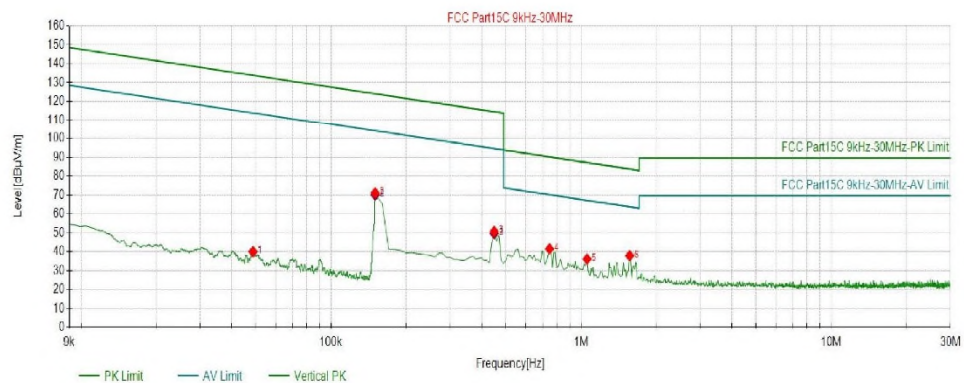
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1406	18.74	65.26	104.64	39.38	100	179	X
2	0.1500	18.74	65.51	104.08	38.57	100	205	X
3	0.4187	18.60	55.85	95.17	39.32	100	147	X

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	Y
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 10:50:13

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.0487	40.03	18.85	133.85	93.82	100	2	PK	Y
2	0.1500	71.13	18.74	124.08	52.95	100	64	PK	Y
3	0.4486	50.69	18.59	114.57	63.88	100	67	PK	Y
4	0.7472	41.50	18.56	70.14	28.64	100	237	PK	Y
5	1.0558	36.08	18.57	67.13	31.05	100	237	PK	Y
6	1.5634	37.85	18.57	63.72	25.87	100	322	PK	Y

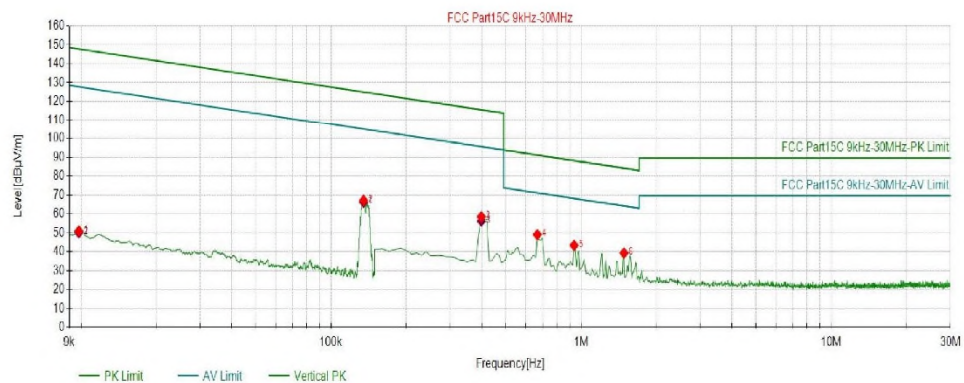
AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.0487	18.85	39.90	113.85	73.95	100	2	Y
2	0.1500	18.74	69.96	104.08	34.12	100	66	Y
3	0.4486	18.59	49.57	94.57	45.00	100	67	Y

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	Z
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 11:03:28

Test Graph



Suspected Data List									
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	0.0098	50.93	19.24	147.74	96.81	100	32	PK	Z
2	0.1348	67.18	18.74	125.01	57.83	100	4	PK	Z
3	0.3988	58.51	18.61	115.59	57.08	100	360	PK	Z
4	0.6676	49.02	18.56	71.11	22.09	100	359	PK	Z
5	0.9363	43.32	18.57	68.18	24.86	100	9	PK	Z
6	1.4837	39.26	18.57	64.18	24.92	100	19	PK	Z

AV Final Data List								
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.1348	18.74	66.19	105.01	38.82	100	4	Z
2	0.0098	19.24	50.01	127.78	77.77	100	32	Z
3	0.3988	18.61	56.11	95.59	39.48	100	360	Z

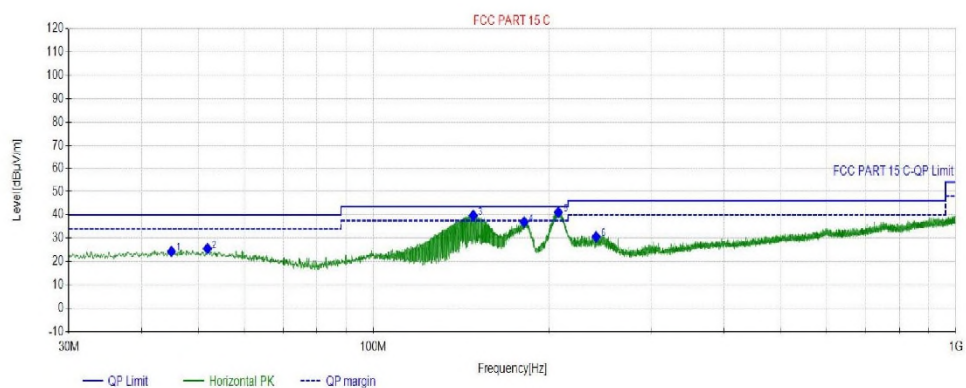
30MHz - 1GHz

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:25:15

Test Graph



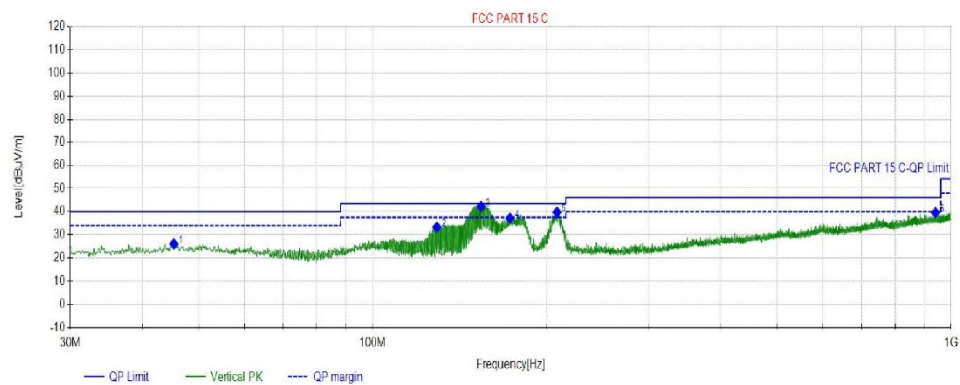
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.0365	21.86	24.36	40.00	15.64	100	116	Horizonta
2	51.9242	22.25	25.59	40.00	14.41	100	27	Horizonta
3	148.448	17.02	39.76	43.50	3.74	100	237	Horizonta
4	181.529	18.63	36.97	43.50	6.53	100	167	Horizonta
5	207.818	20.53	41.06	43.50	2.44	100	352	Horizonta
6	241.287	21.33	30.65	46.00	15.35	100	50	Horizonta

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:25:59

Test Graph



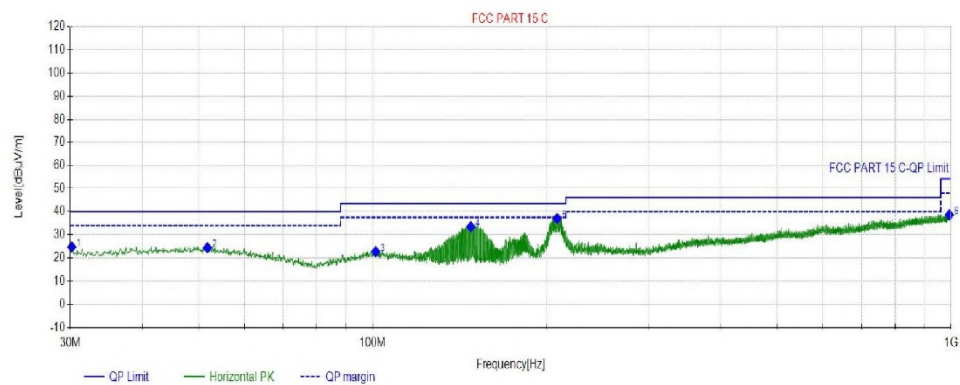
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.3275	21.90	26.15	40.00	13.85	100	268	Vertical
2	129.143	17.59	33.34	43.50	10.16	100	180	Vertical
3	153.978	17.29	42.20	43.50	1.30	100	193	Vertical
4	172.798	18.06	37.21	43.50	6.29	100	180	Vertical
5	208.303	20.54	39.76	43.50	3.74	100	333	Vertical
6	940.048	34.90	39.56	46.00	6.44	100	0	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:37:01

Test Graph



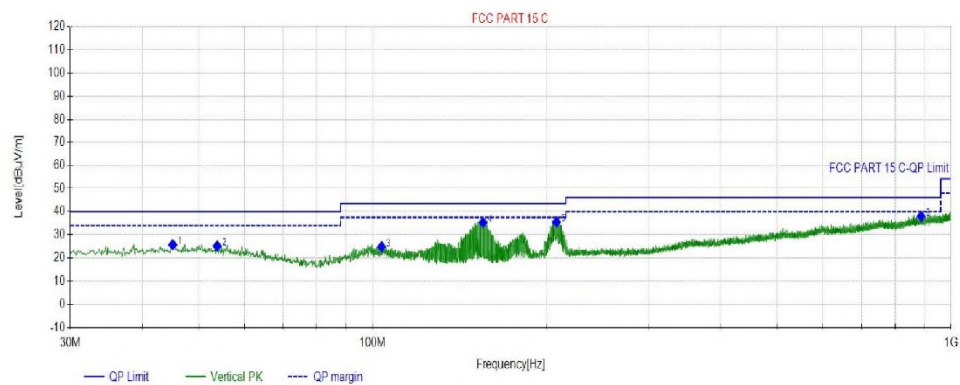
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.1940	18.87	24.82	40.00	15.18	100	54	Horizontal
2	51.8272	22.26	24.49	40.00	15.51	100	307	Horizontal
3	101.205	20.71	22.83	43.50	20.67	100	231	Horizontal
4	147.866	17.03	33.52	43.50	9.98	100	246	Horizontal
5	208.400	20.54	37.03	43.50	6.47	100	27	Horizontal
6	993.791	35.47	38.66	54.00	15.34	100	148	Horizontal

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1000	SN:	
Mode:	Idle	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:37:45

Test Graph



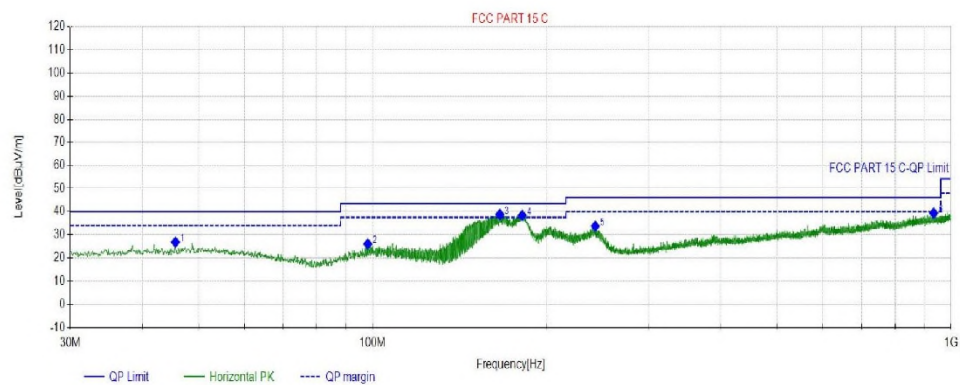
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.1335	21.87	25.75	40.00	14.25	100	281	Vertical
2	53.8644	22.02	25.19	40.00	14.81	100	166	Vertical
3	103.630	20.56	24.91	43.50	18.59	100	226	Vertical
4	155.239	17.38	35.36	43.50	8.14	100	226	Vertical
5	207.818	20.53	35.49	43.50	8.01	100	333	Vertical
6	887.565	34.20	38.02	46.00	7.98	100	80	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:49:34

Test Graph



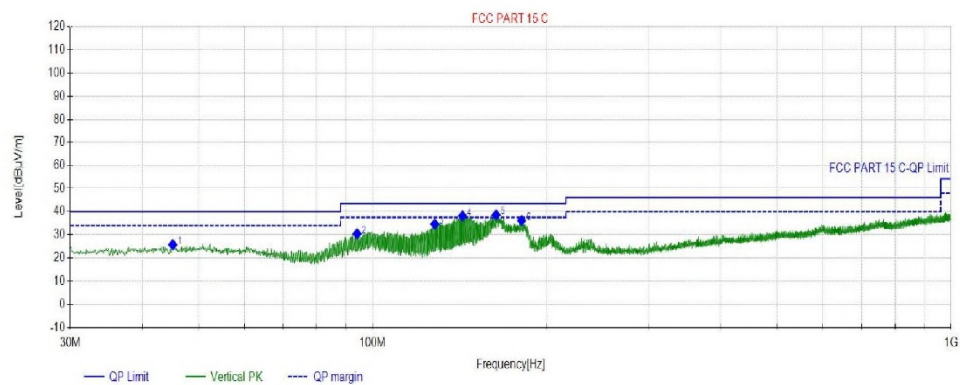
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.6186	21.93	26.90	40.00	13.10	100	27	Horizontal
2	98.1008	20.33	26.09	43.50	17.41	100	27	Horizontal
3	165.910	17.84	38.82	43.50	4.68	100	97	Horizontal
4	181.432	18.62	38.44	43.50	5.06	100	344	Horizontal
5	242.548	21.36	33.73	46.00	12.27	100	150	Horizontal
6	933.451	34.82	39.34	46.00	6.66	100	358	Horizontal

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	
Mode:	15W	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:50:18

Test Graph



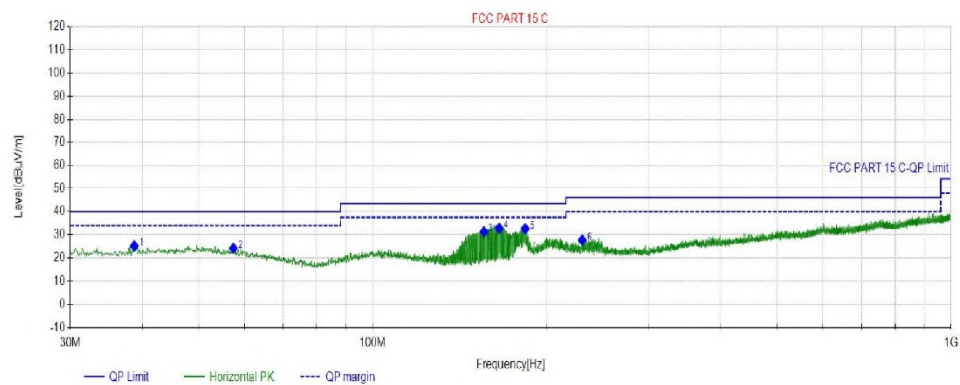
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.1335	21.87	25.79	40.00	14.21	100	71	Vertical
2	94.0264	19.36	30.50	43.50	13.00	100	172	Vertical
3	128.076	17.71	34.62	43.50	8.88	100	201	Vertical
4	143.016	17.08	38.15	43.50	5.35	100	201	Vertical
5	163.485	17.79	38.59	43.50	4.91	100	20	Vertical
6	180.947	18.55	36.15	43.50	7.35	100	334	Vertical

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	
Mode:	IDLE	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:56:48

Test Graph



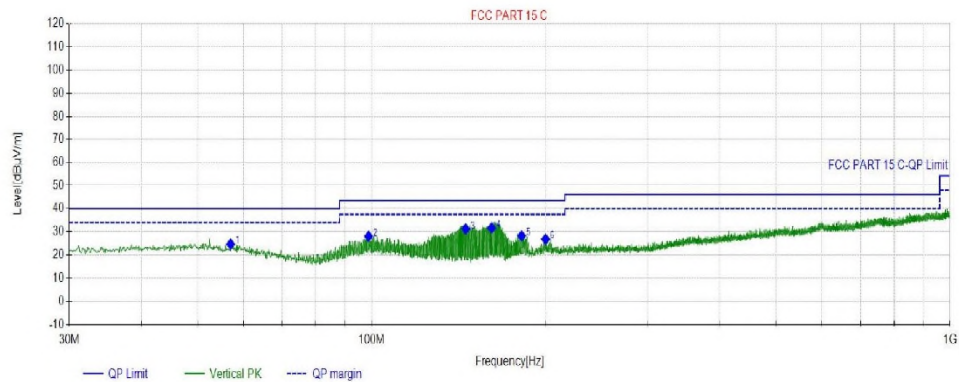
Final Data List								
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1	38.7309	20.92	25.24	40.00	14.76	100	185	Horizontal
2	57.4537	21.59	24.24	40.00	15.76	100	318	Horizontal
3	155.752	17.06	31.32	43.50	12.18	100	180.6	Horizontal
4	165.466	17.83	32.83	43.50	10.67	100	72.3	Horizontal
5	183.663	18.91	32.63	43.50	10.87	100	32	Horizontal
6	230.325	21.07	27.77	46.00	18.23	100	152	Horizontal

Test Report

Project Information			
EUT:	Portable Power Station	Environment:	24.5°C 50%
Model:	AFT1300	SN:	
Mode:	IDLE	Voltage:	DC 5V
Customer:		Engineer:	Roger
Remark:			

Start of Test: 2023-10-27 09:57:33

Test Graph



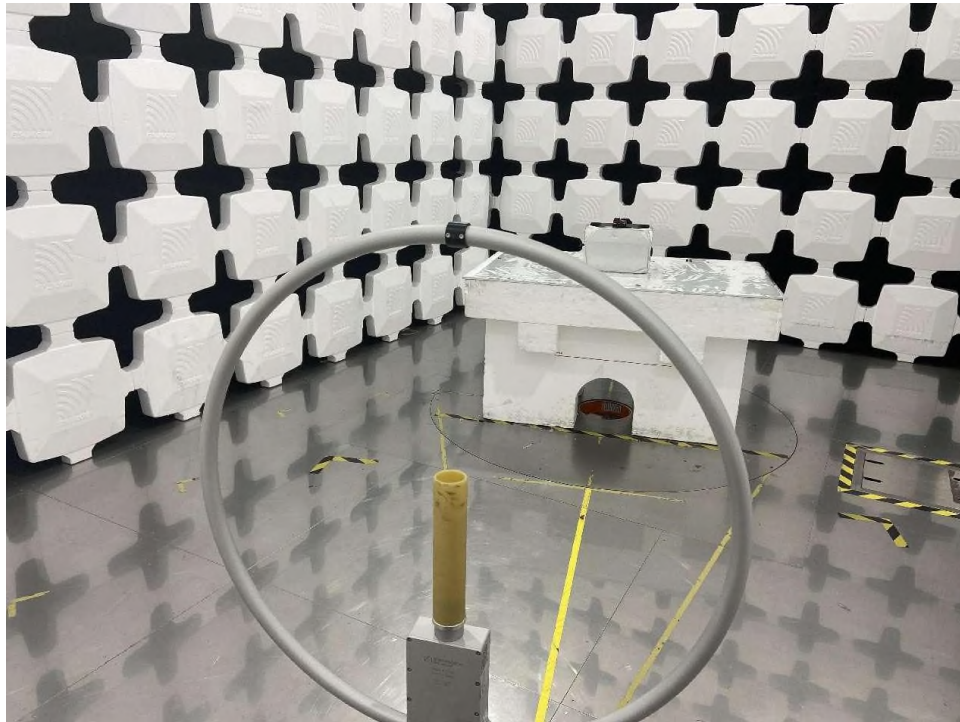
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.0413	22.18	24.73	40.00	15.27	100	92.6	Vertical
2	98.7831	20.72	28.10	43.50	15.40	100	173.8	Vertical
3	145.433	17.06	31.23	43.50	12.27	100	163.1	Vertical
4	161.252	17.78	31.68	43.50	11.82	100	184.9	Vertical
5	181.728	18.89	28.27	43.50	15.23	100	162.1	Vertical
6	199.869	20.44	26.88	43.50	16.62	100	32.4	Vertical

Roger Li

Appendix B: Photographs of the Test Set-Up

APPENDIX B: PHOTOGRAPHS OF THE TEST SET-UP	1
PHOTOGRAPH 1: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, BELOW 30MHz.....	2
PHOTOGRAPH 2: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, 30MHz - 1GHz.....	2

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



Photograph 2: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz

