

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C

Product Name: Studio Qi Wireless Charger STAND

MODEL No.: F7U084

Trademark: BELKIN

FCC ID: K7SF7U084

REPORT NO.: ES190108023W01

ISSUE DATE: January 30, 2019

Prepared for

Belkin International, Inc.
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

Prepared by

EMTEK (SHENZHEN) CO., LTD.

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,
Guangdong, China
TEL: 86-755-26954280
FAX: 86-755-26954282

TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF TEST RESULTS.....	5
2. GENERAL INFORMATION	6
2.1. Description of Device (EUT)	6
2.2. Input / Output Ports.....	6
2.3. Independent Operation Modes	7
2.4. Test Manner	7
2.5. Description of Test Facility	7
2.6. Test Software	7
2.7. Description of Support Device	8
2.8. Measurement Uncertainty.....	8
3. MEASURING DEVICE AND TEST EQUIPMENT	9
3.1. For Power Line Conducted Emission Measurement	9
3.2. For Radiated Emission Measurement	9
4. POWER LINE CONDUCTED EMISSION MEASUREMENT	10
4.1. Block Diagram of Test Setup	10
4.2. Limits.....	10
4.3. Test Procedure.....	10
4.4. Measuring Results	11
5. RADIATED EMISSION TEST.....	18
5.1. Measurement Procedure	18
5.2. Test SET-UP (Block Diagram of Configuration)	18
5.3. Measurement Equipment Used	19
5.4. Radiated Emission Limit	19
5.5. Measurement Result.....	21
6. PHOTOGRAPHS.....	45
6.1. Photos of Power Line Conducted Emission Measurement	45
6.2. Photos of Radiation Emission Measurement	45

APPENDIX : Photos of EUT

TEST REPORT DESCRIPTION

Applicant : Belkin International, Inc.
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

Manufacturer : Belkin International, Inc.
12045 East Waterfront Dr., Playa Vista, California, 90094 United States

Trade Mark : BELKIN

EUT : Studio Qi Wireless Charger STAND

Model No. : F7U084

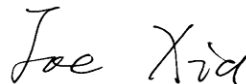
We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test : January 08, 2019 to January 30, 2019

Prepared by : 
Yaping Shen/Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ES190108023W01	/	Original Version

1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
Note: N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	Studio Qi Wireless Charger STAND
Model Number	:	F7U084
Power Supply	:	AC 100-240V 50/60Hz 0.45A Max
Adapter	:	Model: W0920U-1U05F Input: AC 100-240V~50/60Hz,0.45mA Output: DC 3.6V-6V 3A, DC6V-9V 2A 9V-12V 1.5A
Operating Frequency	:	111-205KHz
Modulation Technique	:	FSK
Classification	:	Type 3 (Category I Radio Apparatus)
Antenna Type	:	Integral Antenna(Induction coil)
Date of Received	:	January 08, 2019
Date of Test	:	January 08, 2019 to January 30, 2019

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
2	Type-C port	I/O	No	Shielded(1.2m)	1 ports
* Note: For the purposes of the present document, the following symbols apply: AC AC Power Port DC DC Power Port N/E Non-Electrical I/O Signal Input or Output Port (Not Involved in Process Control) TP Telecommunication Ports					

2.3. Independent Operation Modes

- A ON
1. Charging(10W RX Load operating at center)
 2. Charging(10W RX Load with 3mm airgap at center)
- B Stand-By

Note : The test use coils with strong signals.

2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A&B
Radiated Emission	AC 120V/60Hz	Mode A&B

2.5. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2016.10.24
The certificate is valid until 2022.10.28
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19
The Laboratory has been assessed according to the requirements
ISO/IEC 17025.

Accredited by FCC, August 06, 2018
The certificate is valid until August 07, 2020
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by Industry Canada, November 09, 2018
The Conformity Assessment Body Identifier is CN0008.

Accredited by A2LA, July 31, 2017
The Certificate Number is 4321.01.

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,
Guangdong, China

2.6. Test Software

Item	Software
Conducted Emission	: EMTEK(Ver.CON-03A1)-Shenzhen
Radiated Emission	: EMTEK(Ver.RA-03A1)-Shenzhen

2.7. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	Load	N/A	N/A	N/A	N/A

2.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	: 3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

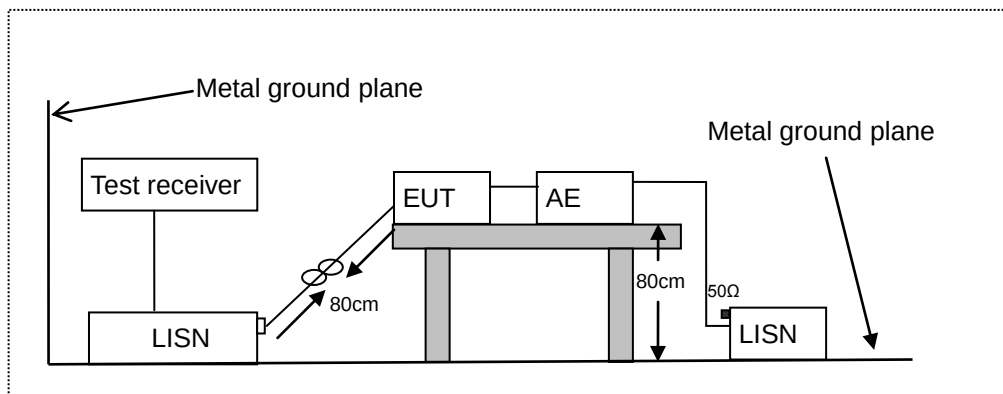
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 20, 2018	1 Year
☒	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100191	May 20, 2018	1 Year
☒	50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 20, 2018	1 Year
☒	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2018	1 Year

3.2. For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
☒	Pre-Amplifier	HP	8447F	2944A07999	May 20, 2018	1 Year
☒	Bilog Antenna	Schwarzbeck	VULB9163	142	May 20, 2018	1 Year
☒	Cable	Schwarzbeck	AK9513	ACRX1	May 20, 2018	1 Year
☒	Cable	Rosenberger	N/A	FP2RX2	May 20, 2018	1 Year
☒	Cable	Schwarzbeck	AK9513	CRPX1	May 20, 2018	1 Year
☒	Cable	Schwarzbeck	AK9513	CRRX2	May 20, 2018	1 Year
☒	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 20, 2018	1 Year
☒	Pre-Amplifier	A.H.	PAM-0126	1415261	May 20, 2018	1 Year
☒	Horn Antenna	Schwarzbeck	BBHA 9120	707	May 20, 2018	1 Year
☒	Cable	H+B	0.5M SF104-26.5	289147/4	May 20, 2018	1 Year
☒	Cable	H+B	3M SF104-26.5	295838/4	May 20, 2018	1 Year
☒	Cable	H+B	6M SF104-26.5	295840/4	May 20, 2018	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
AE: Associated equipment
EUT: Equipment under test

4.2. Limits

FCC Part 15.207

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

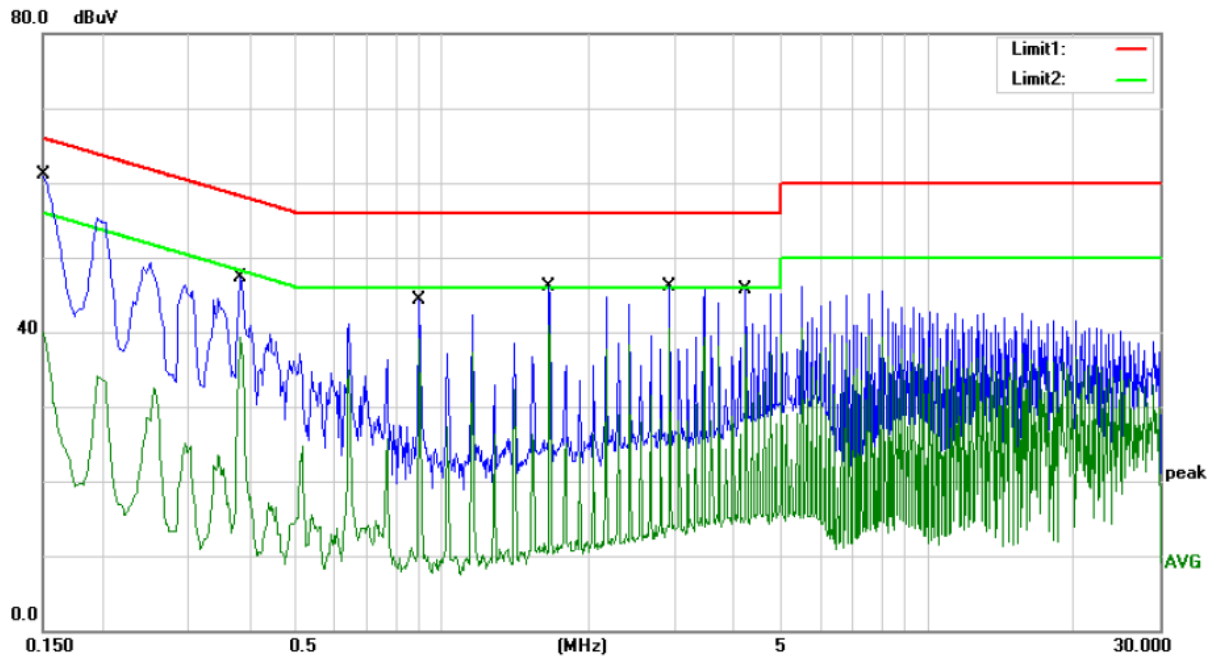
Test results were obtained from the following equation:

Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

4.4.Measuring Results

PASS.



Site Conduction #1

Phase: **L1**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

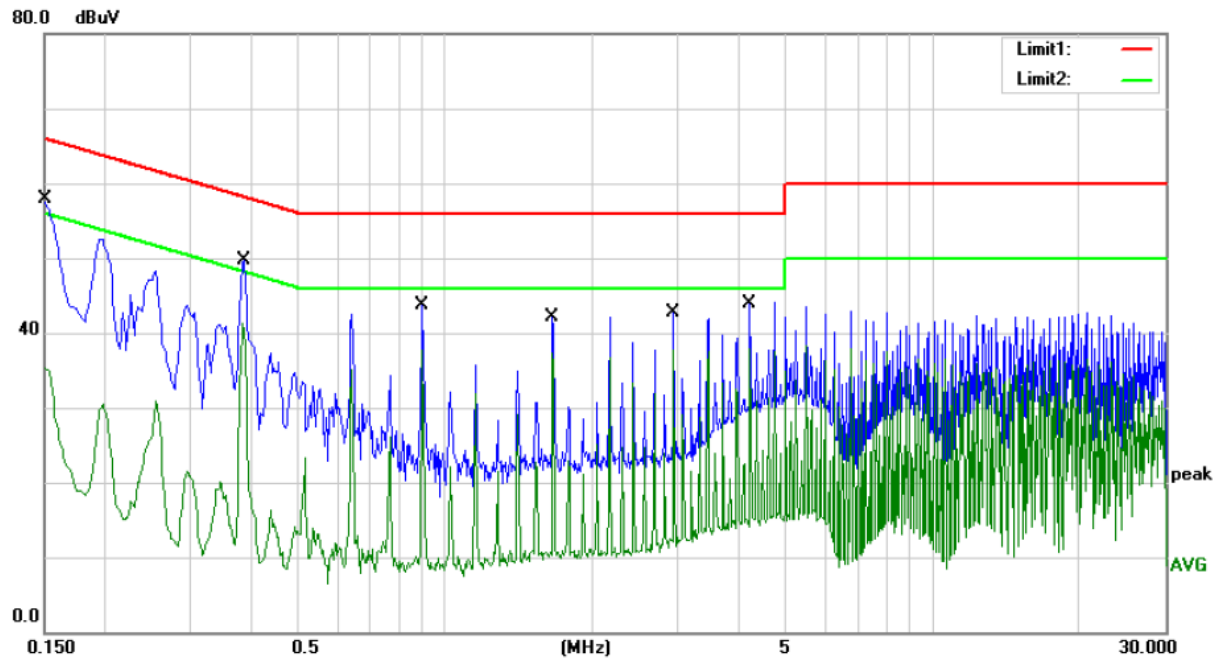
Power: AC 120V/60Hz

Humidity: 54 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	49.34	9.56	58.90	66.00	-7.10	QP	
2		0.1500	31.06	9.56	40.62	56.00	-15.38	AVG	
3		0.3820	37.71	9.57	47.28	58.24	-10.96	QP	
4		0.3820	29.75	9.57	39.32	48.24	-8.92	AVG	
5		0.8980	34.75	9.59	44.34	56.00	-11.66	QP	
6		0.8980	29.50	9.59	39.09	46.00	-6.91	AVG	
7		1.6620	36.55	9.60	46.15	56.00	-9.85	QP	
8	*	1.6620	31.28	9.60	40.88	46.00	-5.12	AVG	
9		2.9420	36.43	9.62	46.05	56.00	-9.95	QP	
10		2.9420	30.81	9.62	40.43	46.00	-5.57	AVG	
11		4.2180	36.12	9.65	45.77	56.00	-10.23	QP	
12		4.2180	29.57	9.65	39.22	46.00	-6.78	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

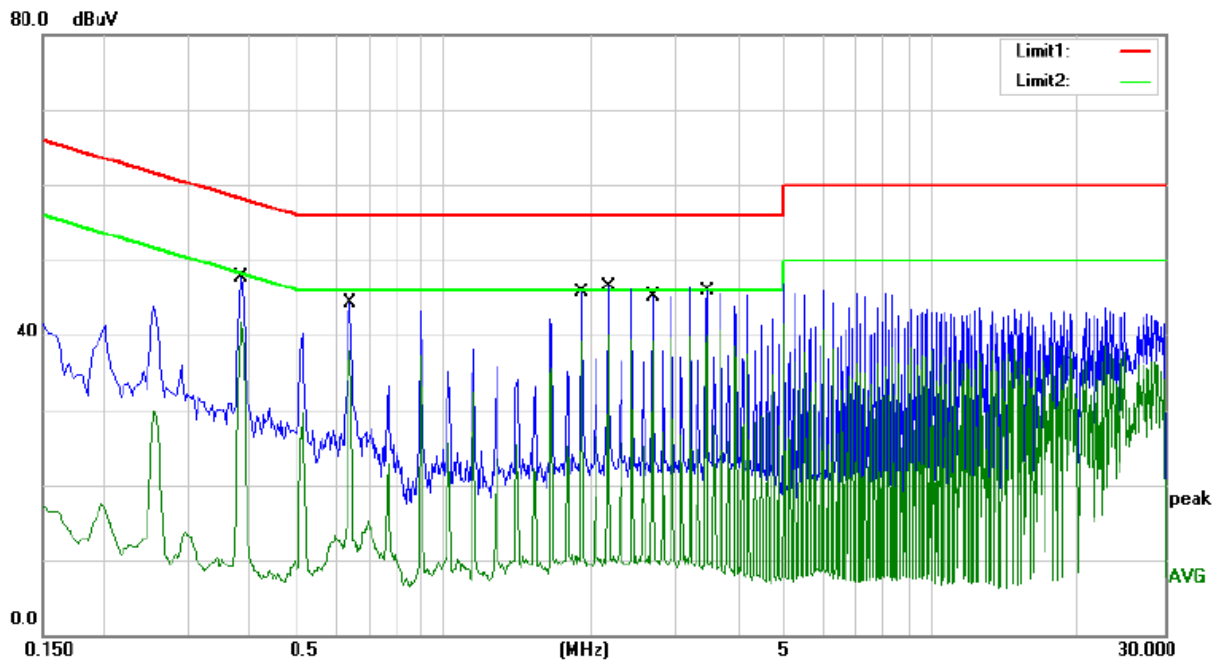
Power: AC 120V/60Hz

Humidity: 54 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	48.28	9.56	57.84	66.00	-8.16	QP	
2		0.1500	25.81	9.56	35.37	56.00	-20.63	AVG	
3		0.3860	40.07	9.57	49.64	58.15	-8.51	QP	
4	*	0.3860	31.70	9.57	41.27	48.15	-6.88	AVG	
5		0.8980	34.09	9.59	43.68	56.00	-12.32	QP	
6		0.8980	28.06	9.59	37.65	46.00	-8.35	AVG	
7		1.6620	32.50	9.60	42.10	56.00	-13.90	QP	
8		1.6620	27.78	9.60	37.38	46.00	-8.62	AVG	
9		2.9420	33.07	9.62	42.69	56.00	-13.31	QP	
10		2.9420	28.02	9.62	37.64	46.00	-8.36	AVG	
11		4.2180	34.19	9.65	43.84	56.00	-12.16	QP	
12		4.2180	28.19	9.65	37.84	46.00	-8.16	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

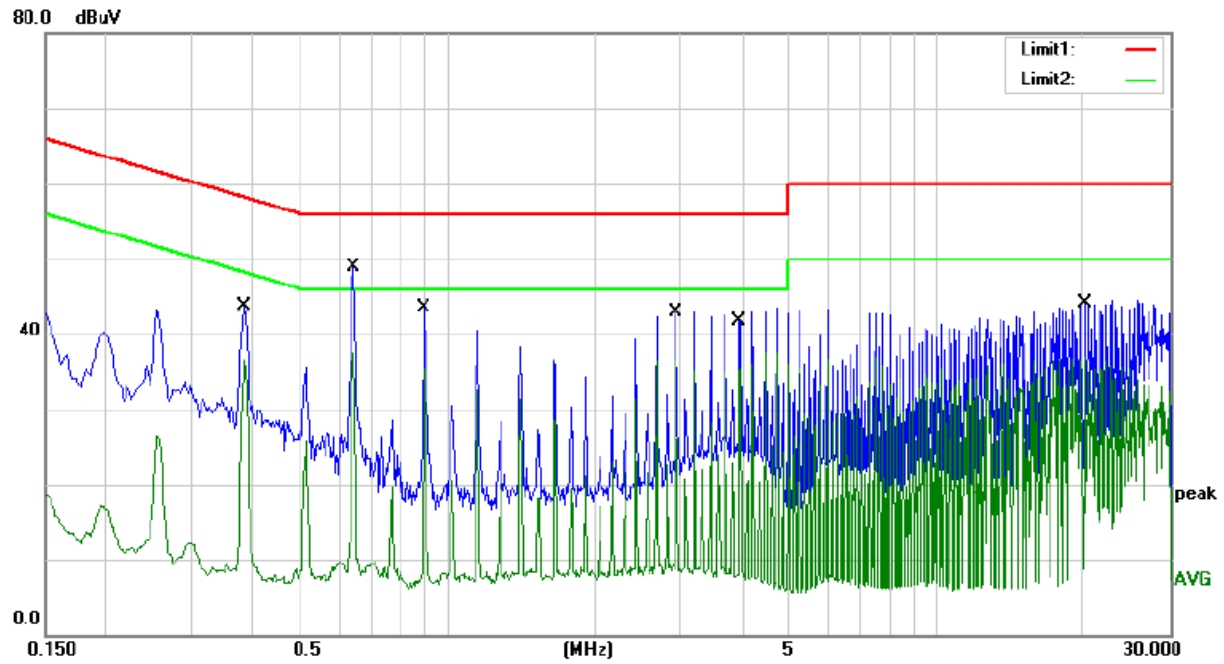
Power: AC 120V/60Hz

Humidity: 54 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.3820	38.13	9.57	47.70	58.24	-10.54	QP	
2		0.3820	32.17	9.57	41.74	48.24	-6.50	AVG	
3		0.6420	34.72	9.58	44.30	56.00	-11.70	QP	
4		0.6420	28.41	9.58	37.99	46.00	-8.01	AVG	
5		1.9180	36.06	9.61	45.67	56.00	-10.33	QP	
6		1.9180	29.51	9.61	39.12	46.00	-6.88	AVG	
7		2.1740	36.98	9.61	46.59	56.00	-9.41	QP	
8		2.1740	30.44	9.61	40.05	46.00	-5.95	AVG	
9		2.6860	35.43	9.62	45.05	56.00	-10.95	QP	
10		2.6860	29.58	9.62	39.20	46.00	-6.80	AVG	
11		3.4540	36.30	9.63	45.93	56.00	-10.07	QP	
12	*	3.4540	31.00	9.63	40.63	46.00	-5.37	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

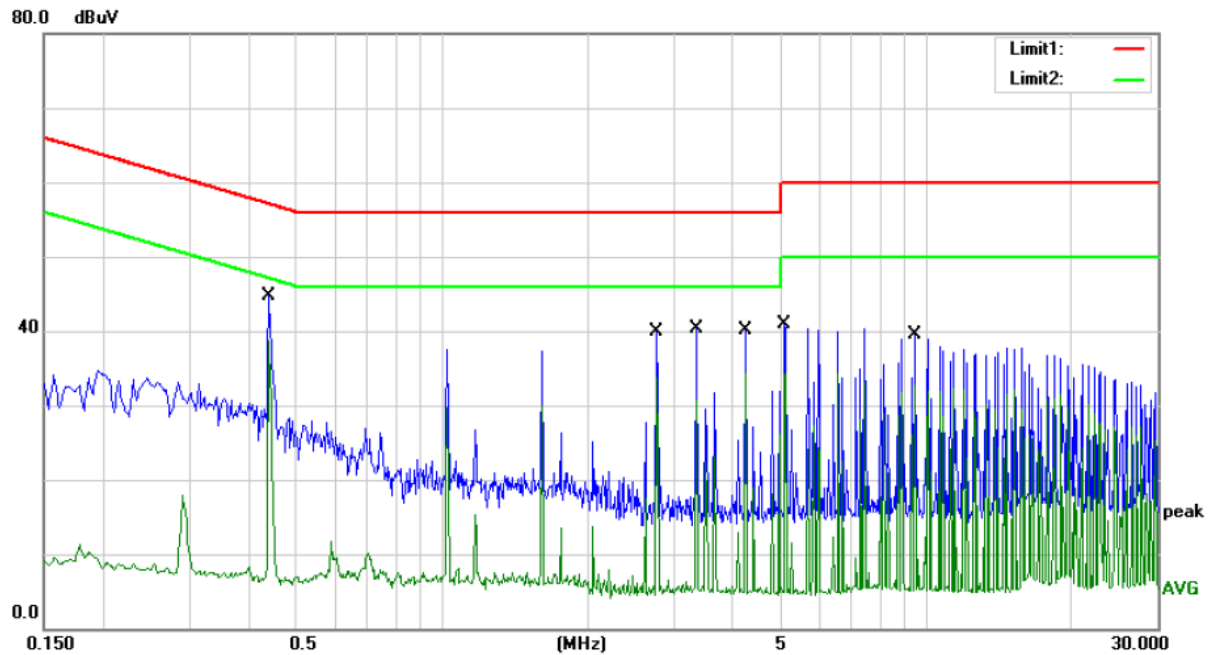
Power: AC 120V/60Hz

Humidity: 54 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.3820	34.22	9.57	43.79	58.24	-14.45	QP	
2		0.3820	26.93	9.57	36.50	48.24	-11.74	AVG	
3	*	0.6420	39.34	9.58	48.92	56.00	-7.08	QP	
4		0.6420	27.95	9.58	37.53	46.00	-8.47	AVG	
5		0.8980	33.89	9.59	43.48	56.00	-12.52	QP	
6		0.8980	25.68	9.59	35.27	46.00	-10.73	AVG	
7		2.9420	33.31	9.62	42.93	56.00	-13.07	QP	
8		2.9420	26.89	9.62	36.51	46.00	-9.49	AVG	
9		3.9620	32.04	9.64	41.68	56.00	-14.32	QP	
10		3.9620	25.69	9.64	35.33	46.00	-10.67	AVG	
11		20.1940	34.11	9.97	44.08	60.00	-15.92	QP	
12		20.1940	26.92	9.97	36.89	50.00	-13.11	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

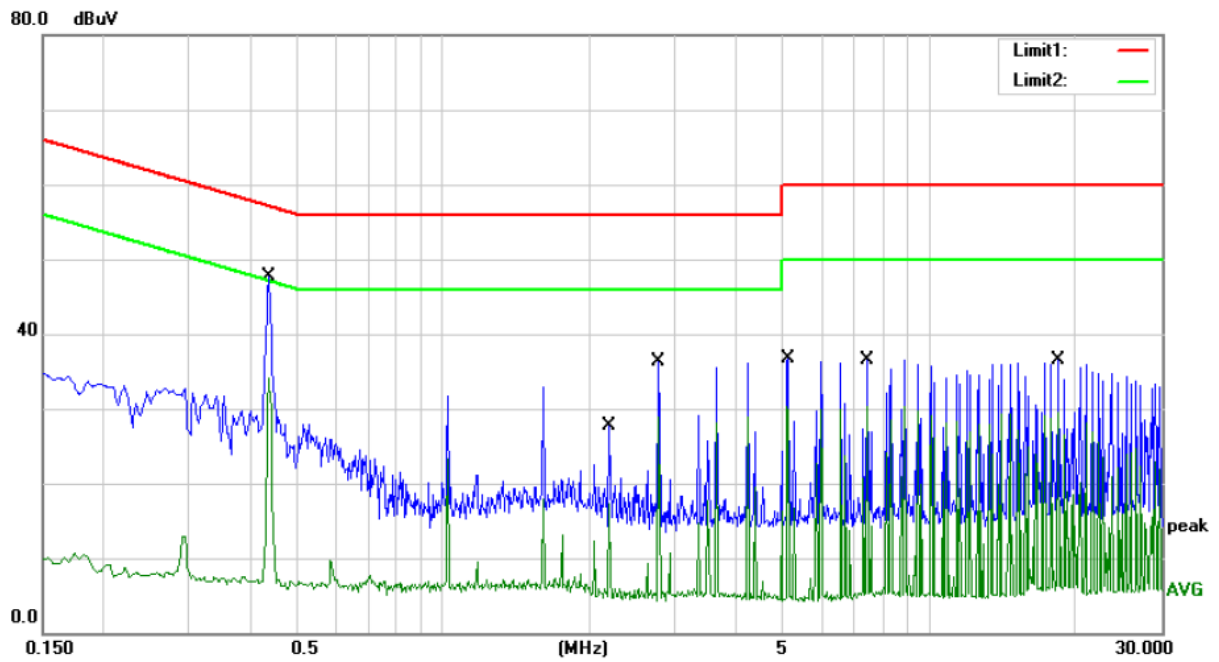
Power: AC 120V/60Hz

Humidity: 54 %

Mode: Standby

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4380	35.09	9.57	44.66	57.10	-12.44	QP	
2	*	0.4380	29.10	9.57	38.67	47.10	-8.43	AVG	
3		2.7780	30.34	9.62	39.96	56.00	-16.04	QP	
4		2.7780	24.01	9.62	33.63	46.00	-12.37	AVG	
5		3.3580	30.59	9.63	40.22	56.00	-15.78	QP	
6		3.3580	21.13	9.63	30.76	46.00	-15.24	AVG	
7		4.2380	30.47	9.65	40.12	56.00	-15.88	QP	
8		4.2380	24.59	9.65	34.24	46.00	-11.76	AVG	
9		5.1100	31.15	9.66	40.81	60.00	-19.19	QP	
10		5.1100	24.71	9.66	34.37	50.00	-15.63	AVG	
11		9.4940	29.65	9.78	39.43	60.00	-20.57	QP	
12		9.4940	22.84	9.78	32.62	50.00	-17.38	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.9C

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 54 %

Mode: Standby

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4380	38.17	9.57	47.74	57.10	-9.36	QP	
2		0.4380	24.47	9.57	34.04	47.10	-13.06	AVG	
3		2.1980	18.08	9.61	27.69	56.00	-28.31	QP	
4		2.1980	7.70	9.61	17.31	46.00	-28.69	AVG	
5		2.7780	26.67	9.62	36.29	56.00	-19.71	QP	
6		2.7780	19.24	9.62	28.86	46.00	-17.14	AVG	
7		5.1140	26.96	9.66	36.62	60.00	-23.38	QP	
8		5.1140	20.57	9.66	30.23	50.00	-19.77	AVG	
9		7.4460	26.87	9.72	36.59	60.00	-23.41	QP	
10		7.4460	20.60	9.72	30.32	50.00	-19.68	AVG	
11		18.3980	26.56	9.95	36.51	60.00	-23.49	QP	
12		18.3980	19.45	9.95	29.40	50.00	-20.60	AVG	

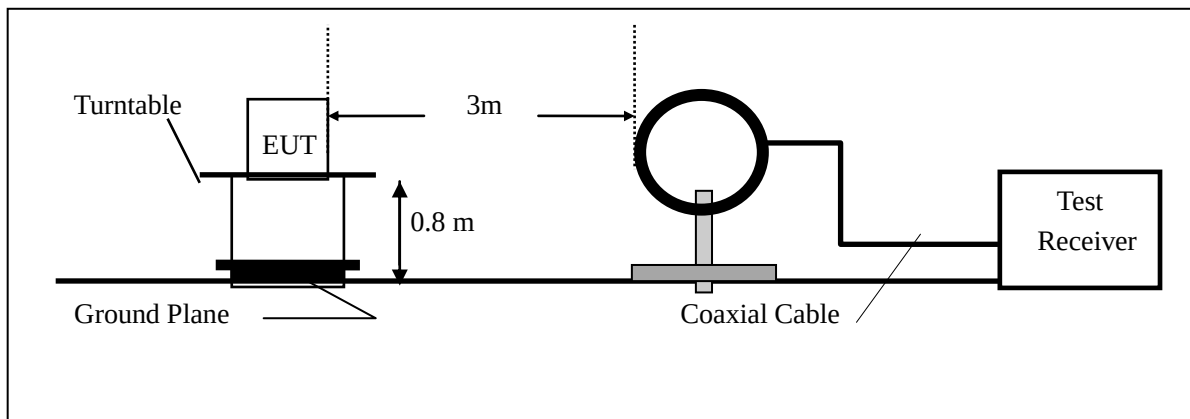
5. RADIATED EMISSION TEST

5.1. Measurement Procedure

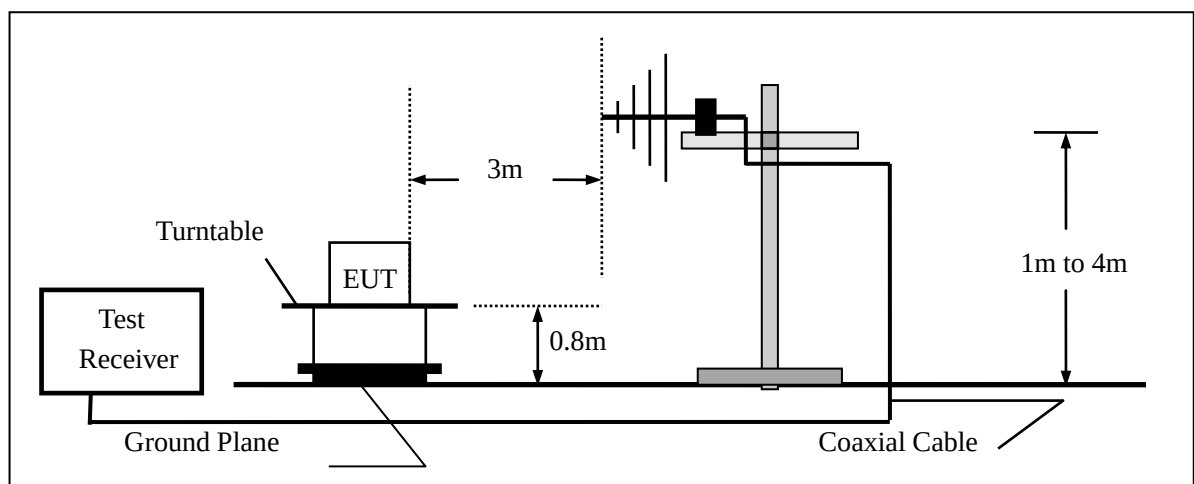
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW=200Hz for 9KHz to 150KHz,
RBW=9kHz for 150KHz to 30MHz,
RBW=120KHz for 30MHz to 1GHz
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = QP
Trace = max hold

5.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



5.3. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/20/2018	05/20/2019
Pre-Amplifier	HP	8447D	2944A07999	05/20/2018	05/20/2019
Bilog Antenna	Schwarzbeck	VULB9163	142	05/20/2018	05/20/2019
Loop Antenna	ARA	PLA-1030/B	1029	05/20/2018	05/20/2019
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/20/2018	05/20/2019
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	ACRX1	05/20/2018	05/20/2019
Cable	Rosenberger	N/A	FP2RX2	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	CRPX1	05/20/2018	05/20/2019
Cable	Schwarzbeck	AK9513	CRRX2	05/20/2018	05/20/2019

5.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

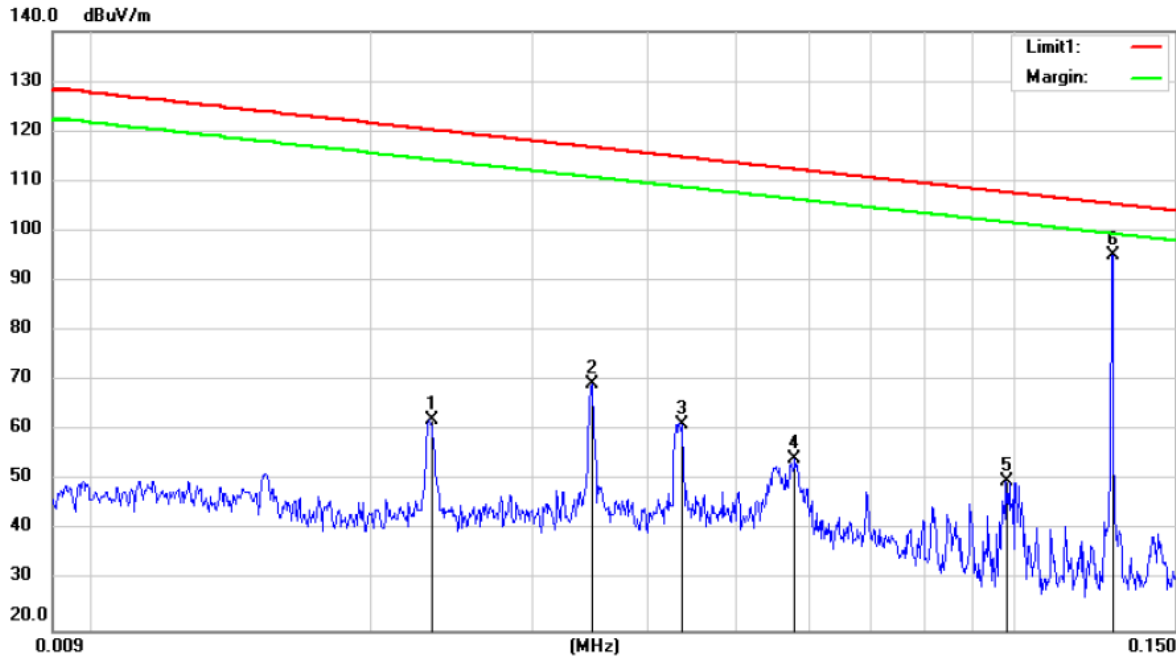
15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

5.5.Measurement Result

9KHz-150KHz:



Site 3m Chamber 1#

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

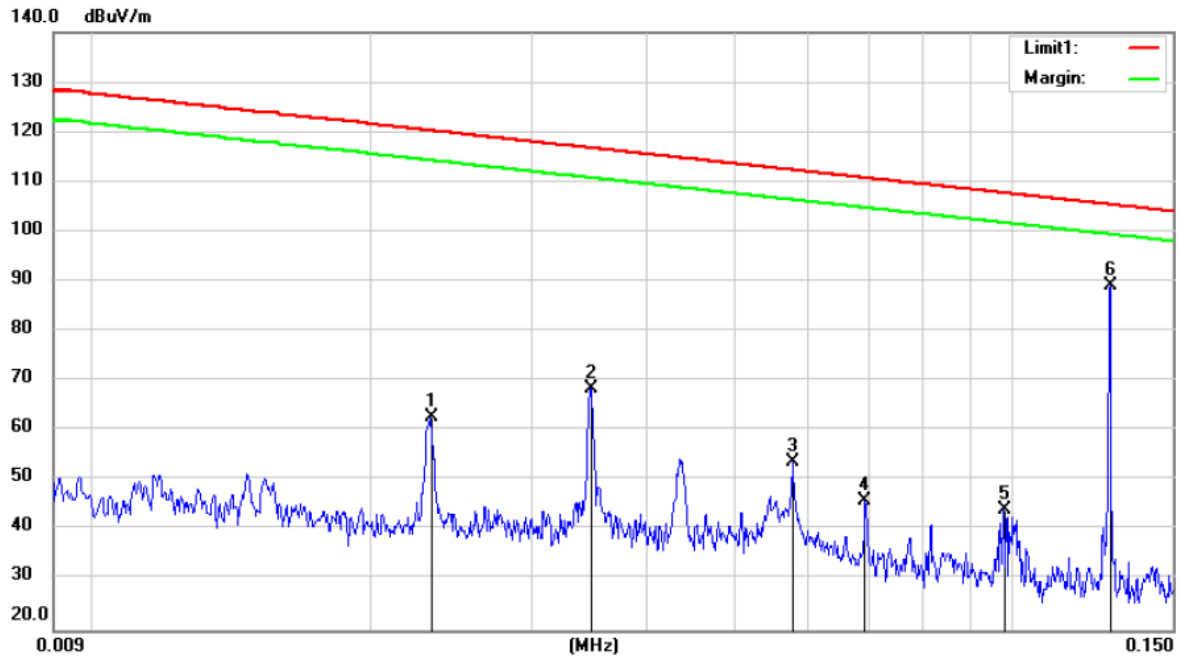
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0231	41.59	20.45	62.04	120.32	-58.28	peak		
2		0.0347	48.63	20.64	69.27	116.78	-47.51	peak		
3		0.0433	40.61	20.79	61.40	114.86	-53.46	peak		
4		0.0578	33.58	20.65	54.23	112.36	-58.13	peak		
5		0.0981	29.17	20.56	49.73	107.76	-58.03	peak		
6	*	0.1281	74.55	20.60	95.15	105.45	-10.30	peak		



Site 3m Chamber 1#

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

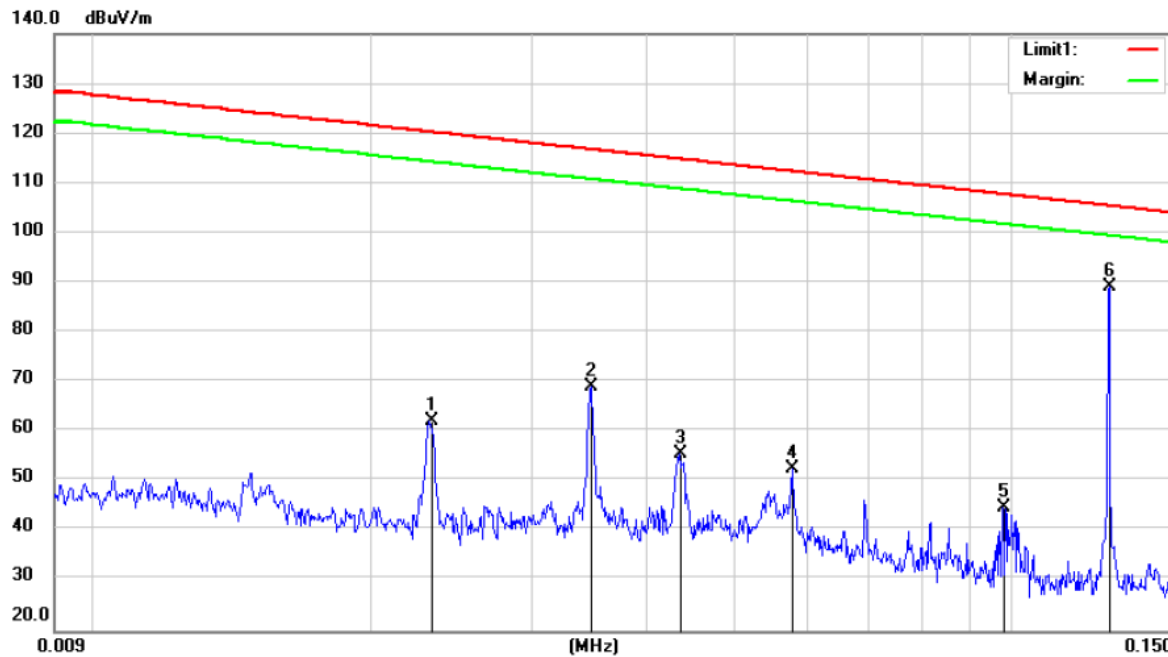
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0232	42.32	20.45	62.77	120.28	-57.51	peak		
2		0.0347	47.89	20.64	68.53	116.78	-48.25	peak		
3		0.0576	33.07	20.66	53.73	112.39	-58.66	peak		
4		0.0692	25.63	20.29	45.92	110.79	-64.87	peak		
5		0.0981	23.72	20.56	44.28	107.76	-63.48	peak		
6	*	0.1281	68.41	20.60	89.01	105.45	-16.44	peak		



Site 3m Chamber 1#

Polarization: **Z**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

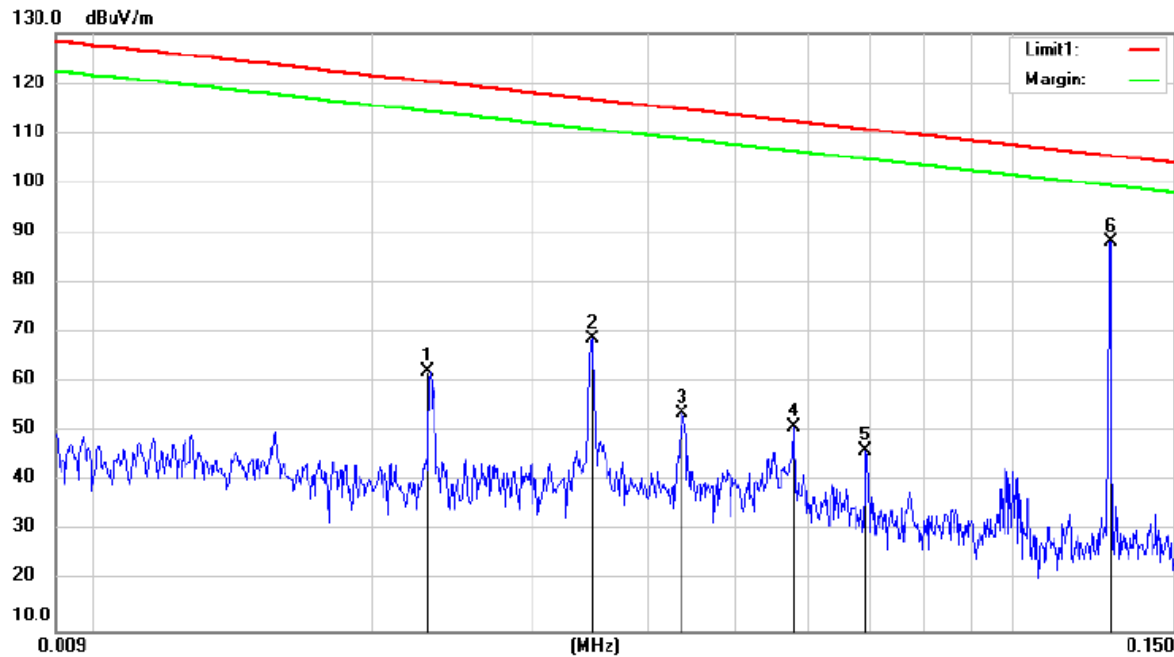
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0231	41.78	20.45	62.23	120.32	-58.09	peak		
2		0.0347	48.27	20.64	68.91	116.78	-47.87	peak		
3		0.0434	34.87	20.79	55.66	114.84	-59.18	peak		
4		0.0576	31.79	20.66	52.45	112.39	-59.94	peak		
5		0.0981	24.32	20.56	44.88	107.76	-62.88	peak		
6	*	0.1281	68.41	20.60	89.01	105.45	-16.44	peak		



Site 3m Chamber 1#

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

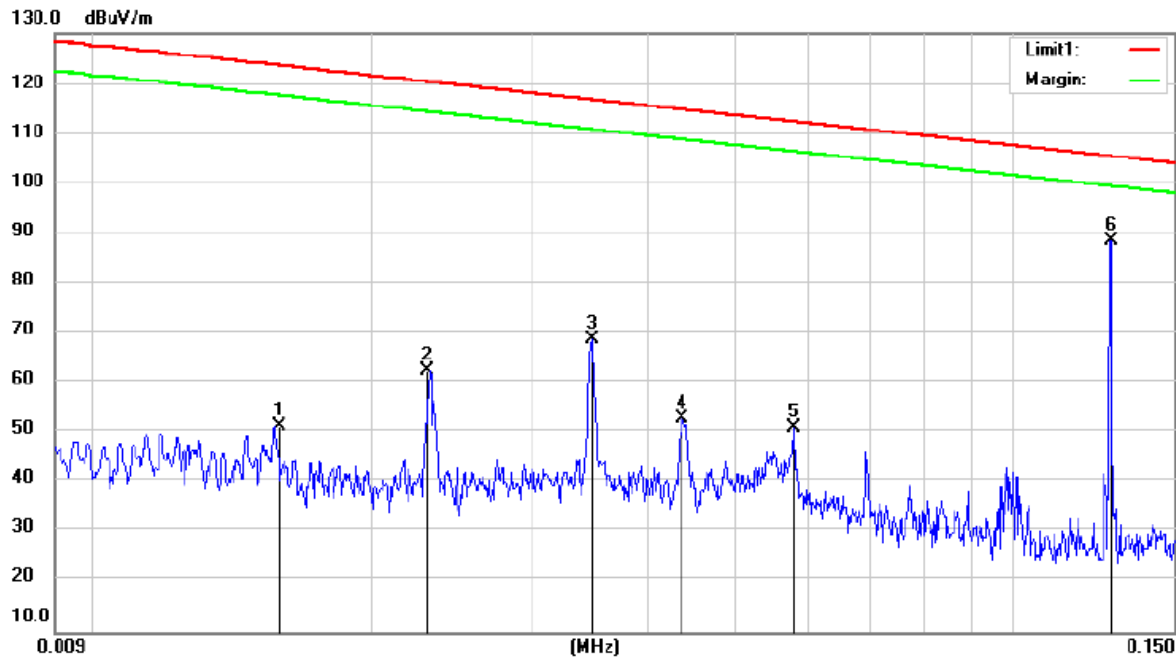
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0230	41.50	20.45	61.95	120.35	-58.40	peak		
2		0.0347	48.13	20.64	68.77	116.78	-48.01	peak		
3		0.0436	32.74	20.79	53.53	114.80	-61.27	peak		
4		0.0576	30.21	20.66	50.87	112.39	-61.52	peak		
5		0.0691	25.97	20.29	46.26	110.81	-64.55	peak		
6	*	0.1281	67.59	20.60	88.19	105.45	-17.26	peak		



Site 3m Chamber 1#

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

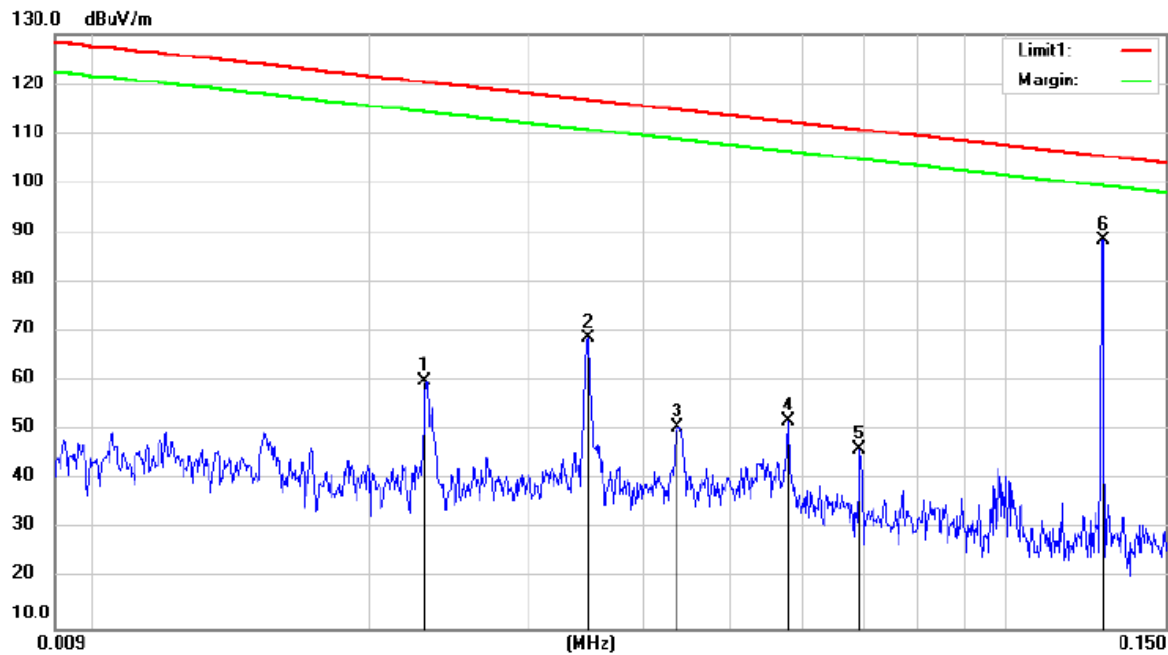
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0156	30.63	20.49	51.12	123.72	-72.60	peak		
2		0.0230	42.02	20.45	62.47	120.35	-57.88	peak		
3		0.0347	47.97	20.64	68.61	116.78	-48.17	peak		
4		0.0436	32.02	20.79	52.81	114.80	-61.99	peak		
5		0.0576	30.21	20.66	50.87	112.39	-61.52	peak		
6	*	0.1281	67.79	20.60	88.39	105.45	-17.06	peak		



Site 3m Chamber 1#

Polarization: Z

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

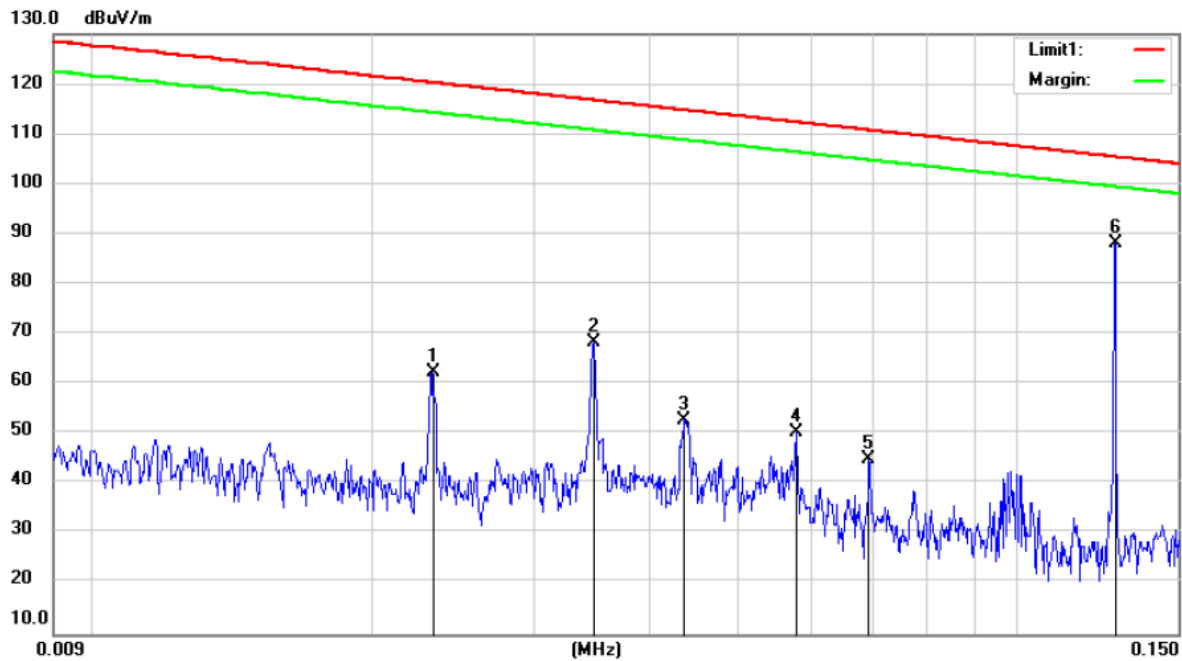
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0230	39.59	20.45	60.04	120.35	-60.31	peak		
2		0.0347	48.05	20.64	68.69	116.78	-48.09	peak		
3		0.0434	29.98	20.79	50.77	114.84	-64.07	peak		
4		0.0576	31.16	20.66	51.82	112.39	-60.57	peak		
5		0.0691	25.90	20.29	46.19	110.81	-64.62	peak		
6	*	0.1281	67.79	20.60	88.39	105.45	-17.06	peak		



Site 3m Chamber 1#

Polarization: **X**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

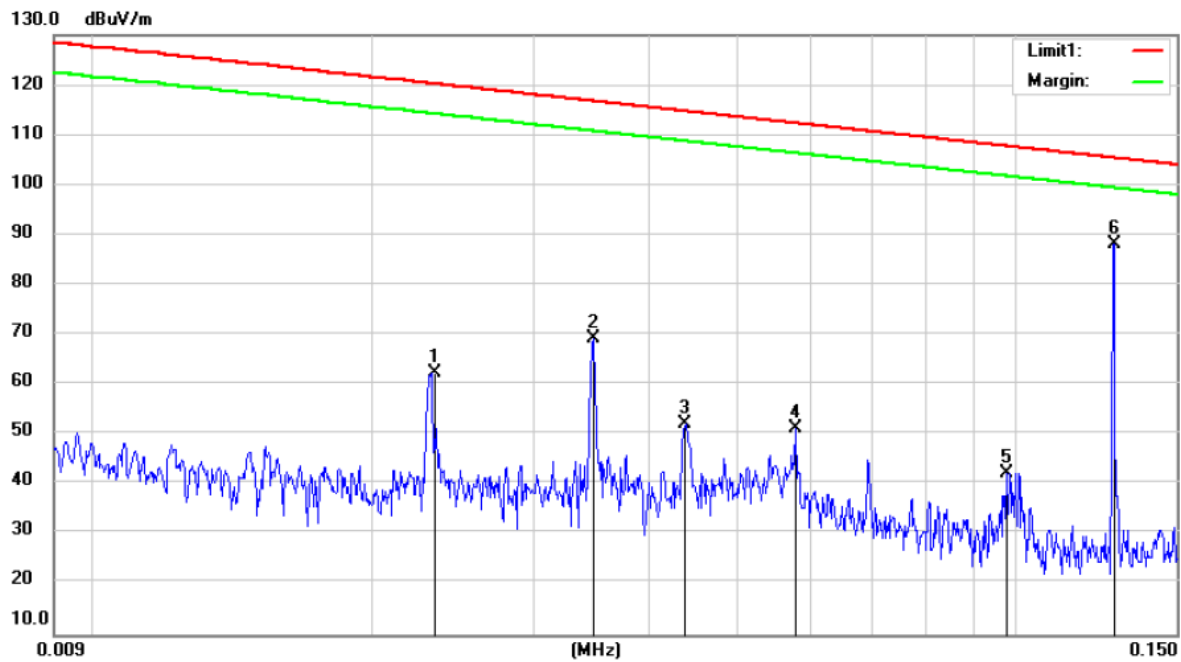
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0231	41.95	20.45	62.40	120.32	-57.92	peak		
2		0.0347	47.75	20.64	68.39	116.78	-48.39	peak		
3		0.0436	32.11	20.79	52.90	114.80	-61.90	peak		
4		0.0576	29.57	20.66	50.23	112.39	-62.16	peak		
5		0.0691	24.54	20.29	44.83	110.81	-65.98	peak		
6	*	0.1281	67.60	20.60	88.20	105.45	-17.25	peak		



Site 3m Chamber 1#

Polarization: **Y**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

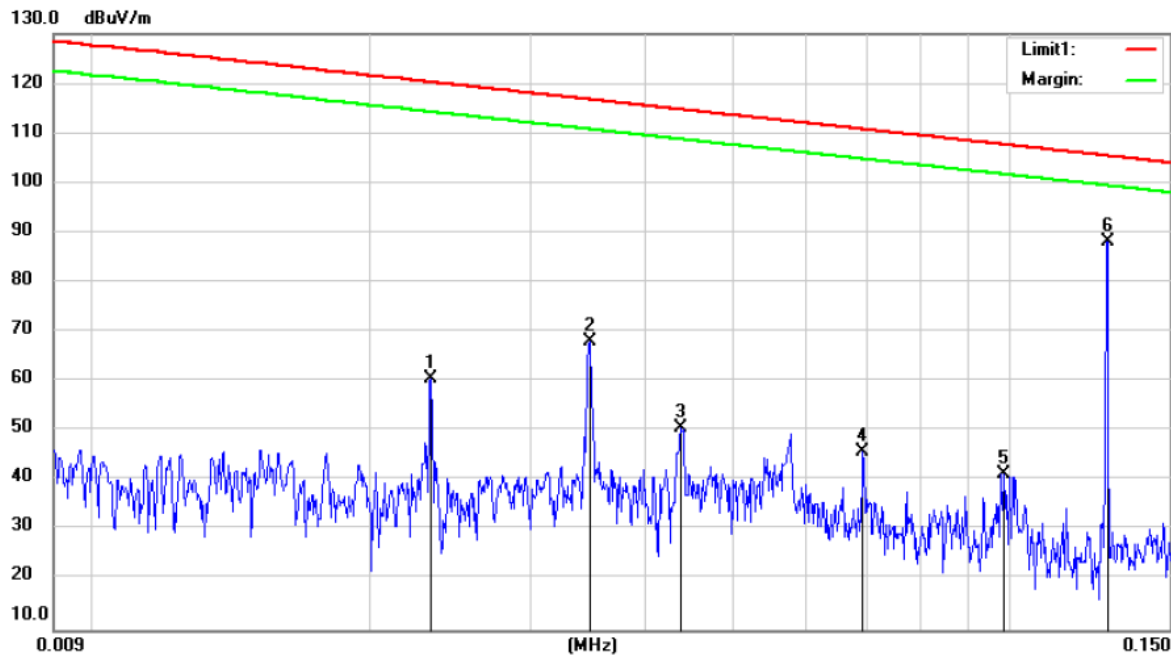
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0231	41.89	20.45	62.34	120.32	-57.98	peak		
2		0.0347	48.50	20.64	69.14	116.78	-47.64	peak		
3		0.0437	31.51	20.79	52.30	114.78	-62.48	peak		
4		0.0576	30.54	20.66	51.20	112.39	-61.19	peak		
5		0.0978	21.80	20.56	42.36	107.79	-65.43	peak		
6	*	0.1281	67.60	20.60	88.20	105.45	-17.25	peak		



Site 3m Chamber 1#

Polarization: Z

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

Power: AC 120V/60Hz

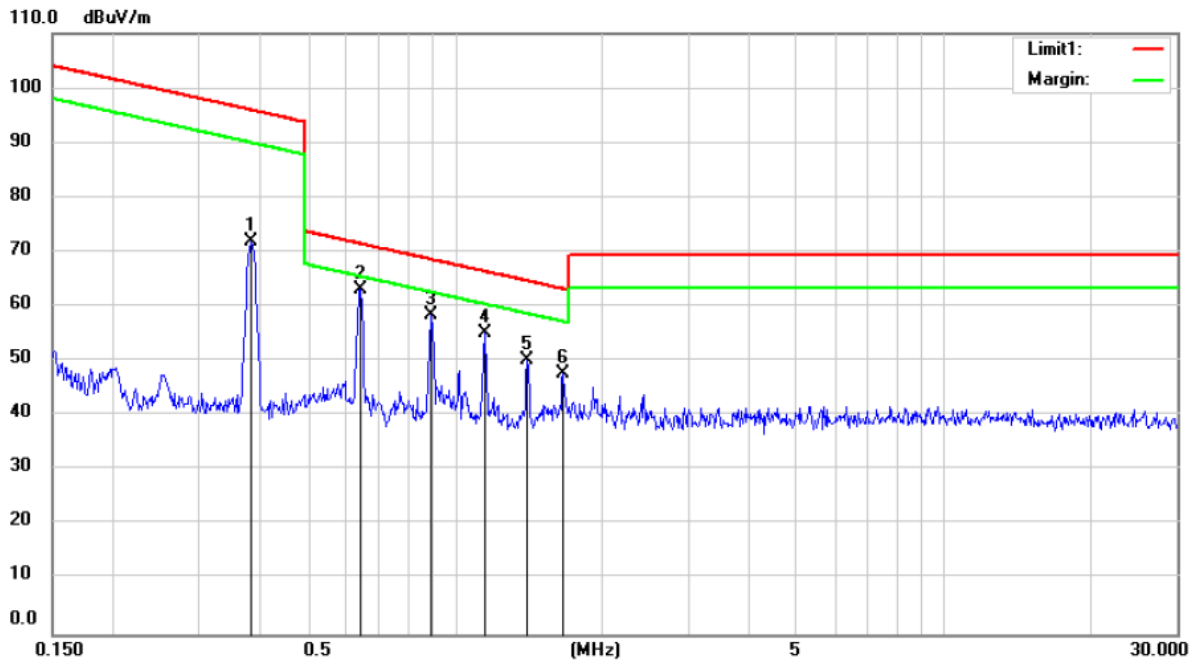
Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0232	40.03	20.45	60.48	120.28	-59.80	peak		
2		0.0347	47.33	20.64	67.97	116.78	-48.81	peak		
3		0.0437	29.77	20.79	50.56	114.78	-64.22	peak		
4		0.0691	25.63	20.29	45.92	110.81	-64.89	peak		
5		0.0986	20.73	20.57	41.30	107.72	-66.42	peak		
6	*	0.1281	67.60	20.60	88.20	105.45	-17.25	peak		

150KHz-30MHz:



Site 3m Chamber 1#

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

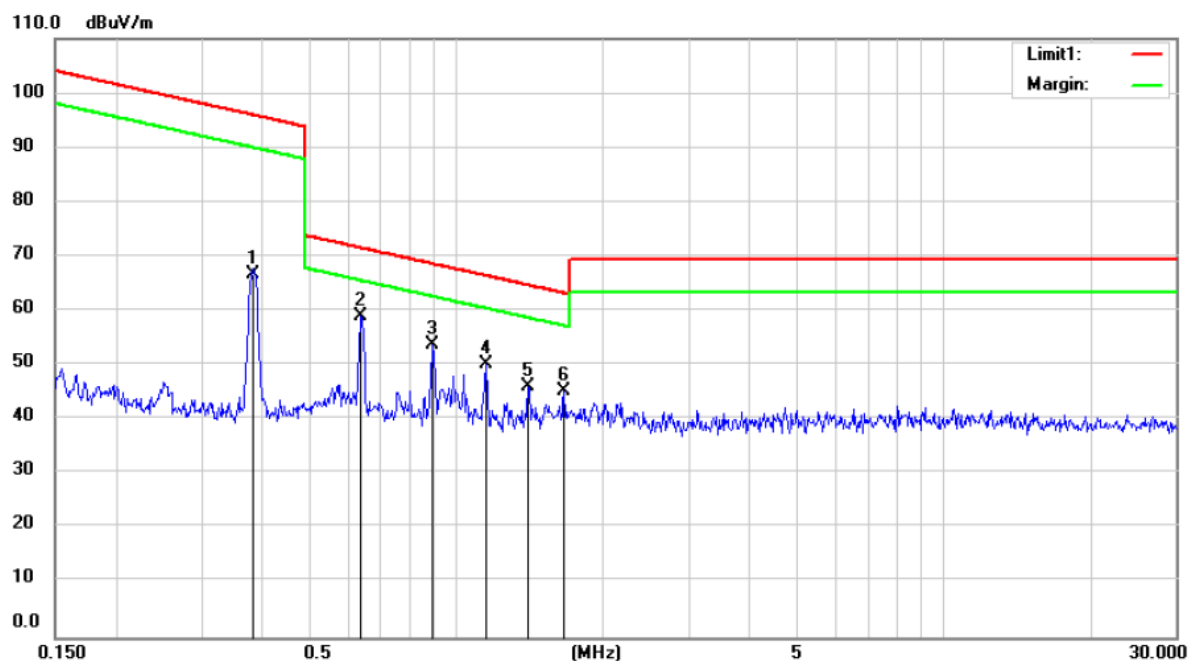
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	51.04	20.80	71.84	95.94	-24.10	peak		
2	*	0.6405	42.42	20.74	63.16	71.48	-8.32	peak		
3		0.8944	37.74	20.70	58.44	68.59	-10.15	peak		
4		1.1473	34.48	20.66	55.14	66.43	-11.29	peak		
5		1.4032	29.74	20.58	50.32	64.69	-14.37	peak		
6		1.6624	27.22	20.50	47.72	63.22	-15.50	peak		



Site 3m Chamber 1#

Polarization: **Y**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

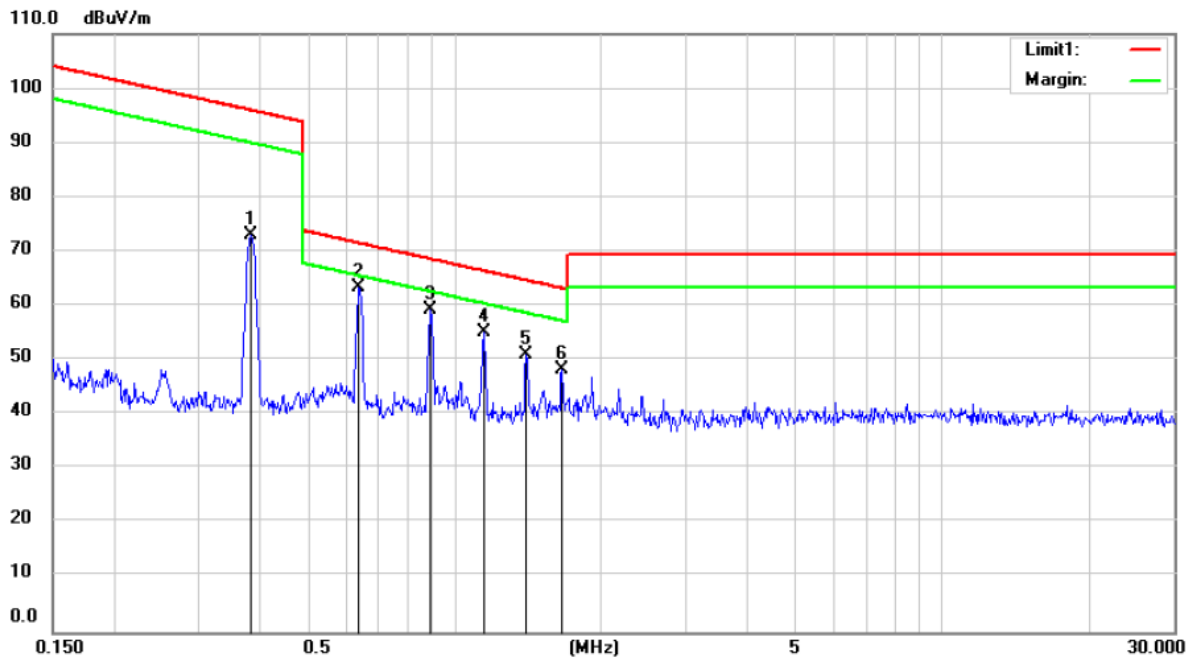
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		0.3791	45.94	20.80	66.74	96.03	-29.29	peak		
2	*	0.6371	38.22	20.75	58.97	71.53	-12.56	peak		
3		0.8944	33.04	20.70	53.74	68.59	-14.85	peak		
4		1.1473	29.55	20.66	50.21	66.43	-16.22	peak		
5		1.4032	25.54	20.58	46.12	64.69	-18.57	peak		
6		1.6624	24.71	20.50	45.21	63.22	-18.01	peak		



Site 3m Chamber 1#

Polarization: **Z**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

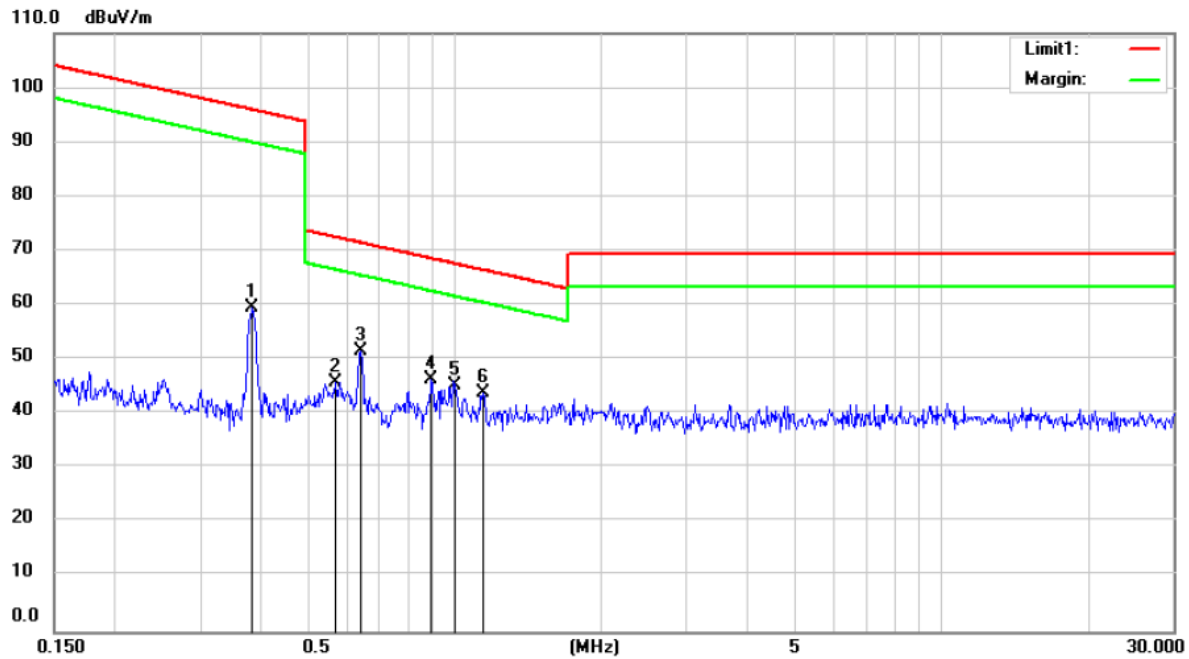
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		0.3831	52.16	20.80	72.96	95.94	-22.98	peak		
2	*	0.6371	42.77	20.75	63.52	71.53	-8.01	peak		
3		0.8944	38.58	20.70	59.28	68.59	-9.31	peak		
4		1.1473	34.59	20.66	55.25	66.43	-11.18	peak		
5		1.4032	30.42	20.58	51.00	64.69	-13.69	peak		
6		1.6624	27.80	20.50	48.30	63.22	-14.92	peak		



Site 3m Chamber 1#

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

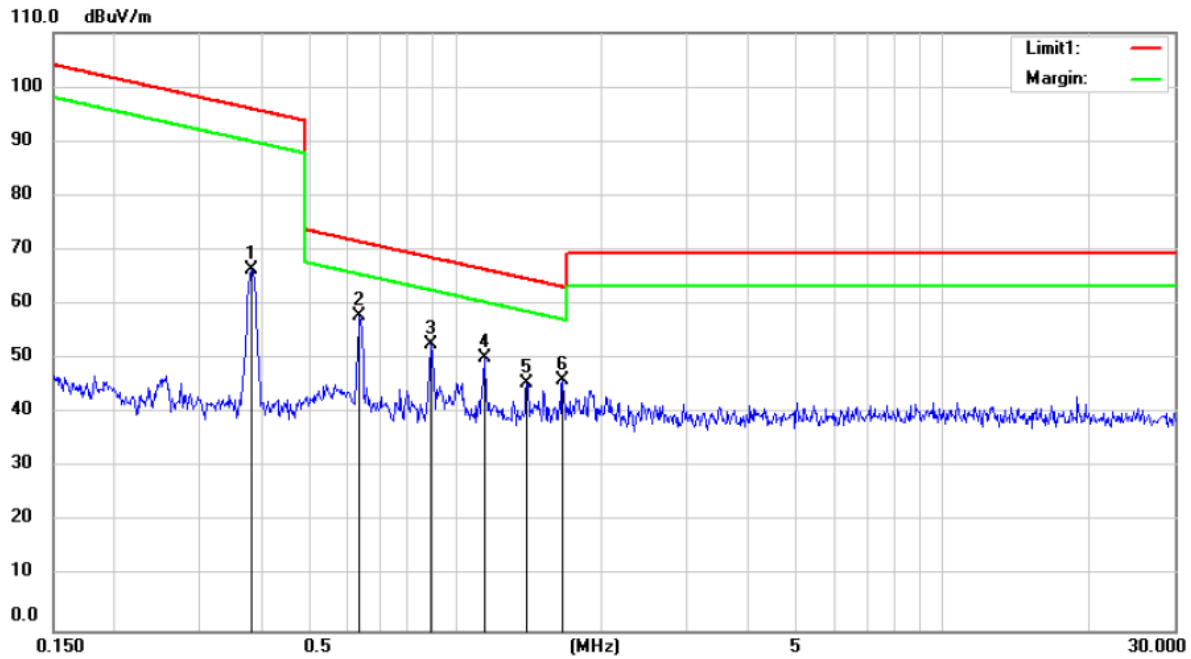
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	38.64	20.80	59.44	95.94	-36.50	peak		
2		0.5670	25.05	20.77	45.82	72.54	-26.72	peak		
3	*	0.6405	30.93	20.74	51.67	71.48	-19.81	peak		
4		0.8944	25.63	20.70	46.33	68.59	-22.26	peak		
5		0.9996	24.50	20.70	45.20	67.62	-22.42	peak		
6		1.1412	23.11	20.66	43.77	66.48	-22.71	peak		



Site 3m Chamber 1#

Polarization: **Y**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

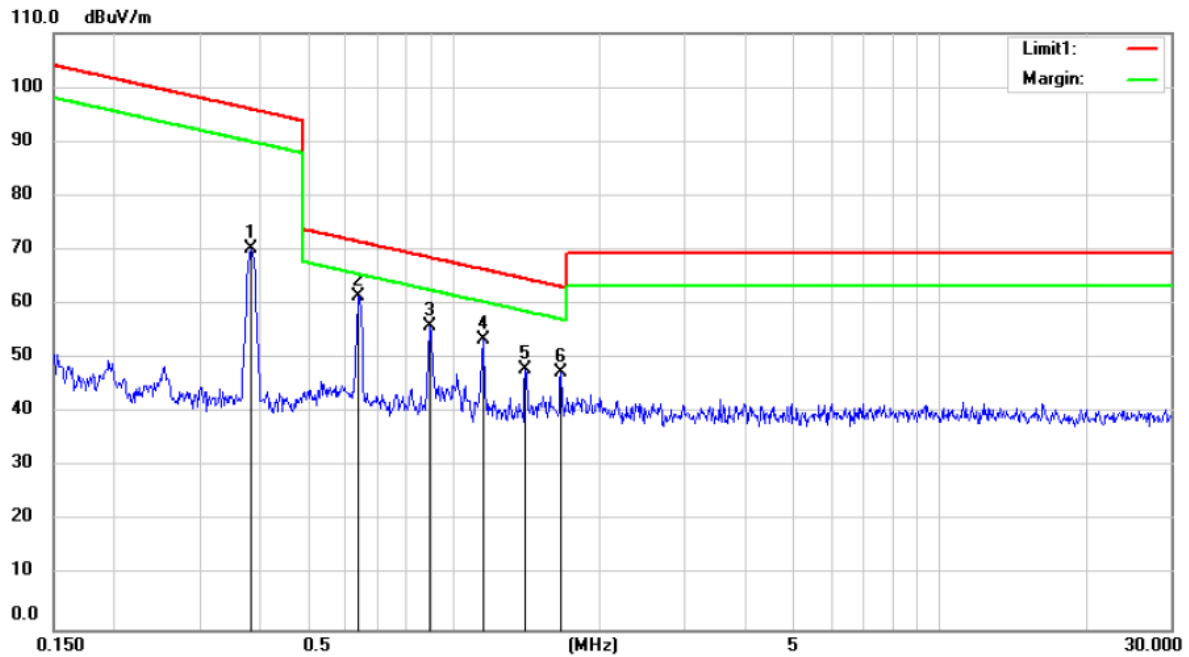
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	45.63	20.80	66.43	95.94	-29.51	peak		
2	*	0.6371	37.08	20.75	57.83	71.53	-13.70	peak		
3		0.8944	32.03	20.70	52.73	68.59	-15.86	peak		
4		1.1473	29.59	20.66	50.25	66.43	-16.18	peak		
5		1.4032	24.91	20.58	45.49	64.69	-19.20	peak		
6		1.6624	25.48	20.50	45.98	63.22	-17.24	peak		



Site 3m Chamber 1#

Polarization: **Z**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

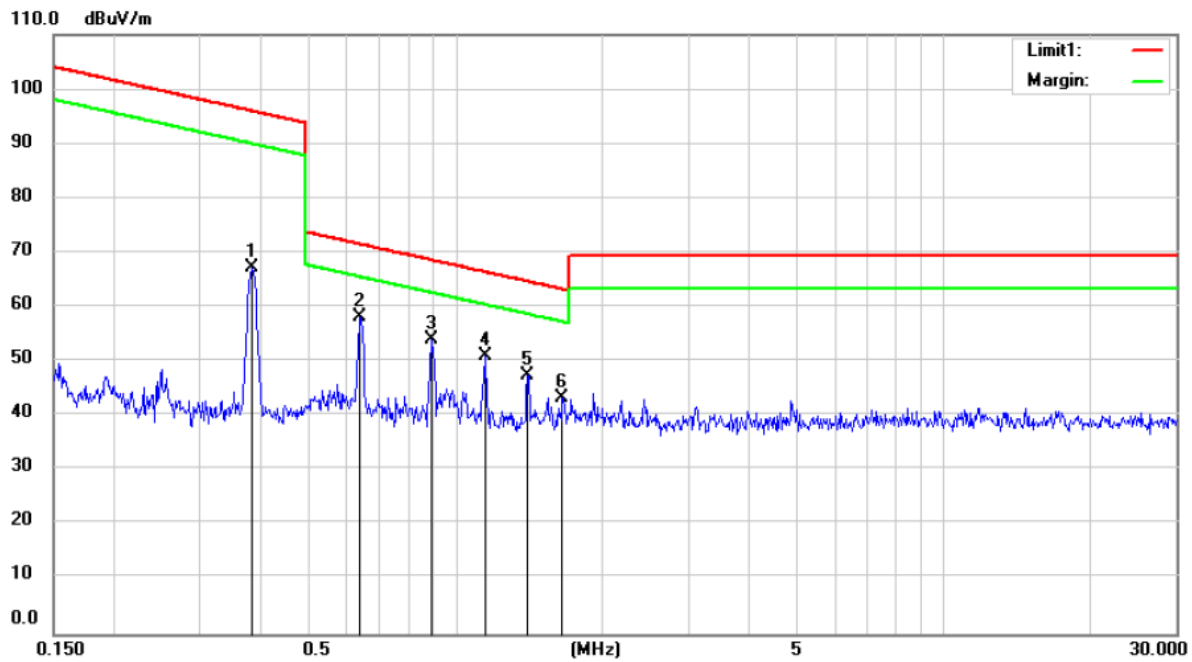
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3811	49.49	20.80	70.29	95.98	-25.69	peak		
2	*	0.6371	40.77	20.75	61.52	71.53	-10.01	peak		
3		0.8944	35.38	20.70	56.08	68.59	-12.51	peak		
4		1.1473	32.78	20.66	53.44	66.43	-12.99	peak		
5		1.4032	27.31	20.58	47.89	64.69	-16.80	peak		
6		1.6624	27.06	20.50	47.56	63.22	-15.66	peak		



Site 3m Chamber 1#

Polarization: X

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

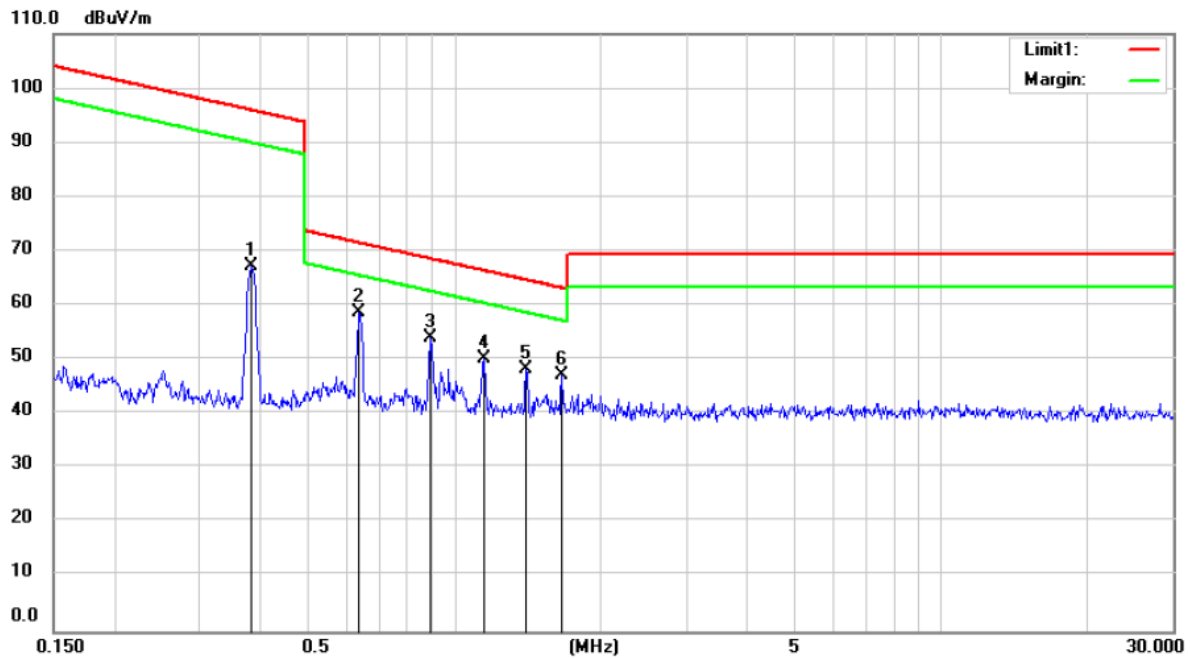
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	46.40	20.80	67.20	95.94	-28.74	peak		
2	*	0.6371	37.41	20.75	58.16	71.53	-13.37	peak		
3		0.8944	33.33	20.70	54.03	68.59	-14.56	peak		
4		1.1473	30.47	20.66	51.13	66.43	-15.30	peak		
5		1.4032	26.98	20.58	47.56	64.69	-17.13	peak		
6		1.6537	22.92	20.50	43.42	63.26	-19.84	peak		



Site 3m Chamber 1#

Polarization: Y

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

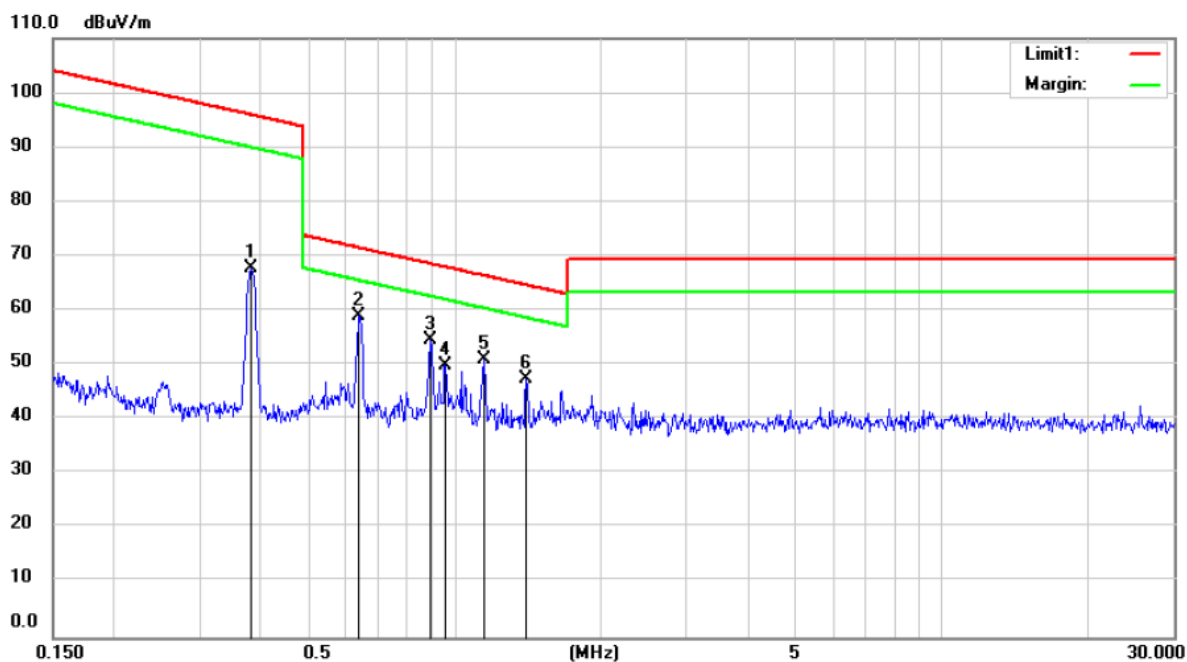
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	46.37	20.80	67.17	95.94	-28.77	peak		
2	*	0.6371	37.87	20.75	58.62	71.53	-12.91	peak		
3		0.8944	33.23	20.70	53.93	68.59	-14.66	peak		
4		1.1473	29.61	20.66	50.27	66.43	-16.16	peak		
5		1.4032	27.56	20.58	48.14	64.69	-16.55	peak		
6		1.6624	26.64	20.50	47.14	63.22	-16.08	peak		



Site 3m Chamber 1#

Polarization: **Z**

Temperature: 27 C

Limit: (RE)FCC PART 15.209(9K-30M)

Power: AC 120V/60Hz

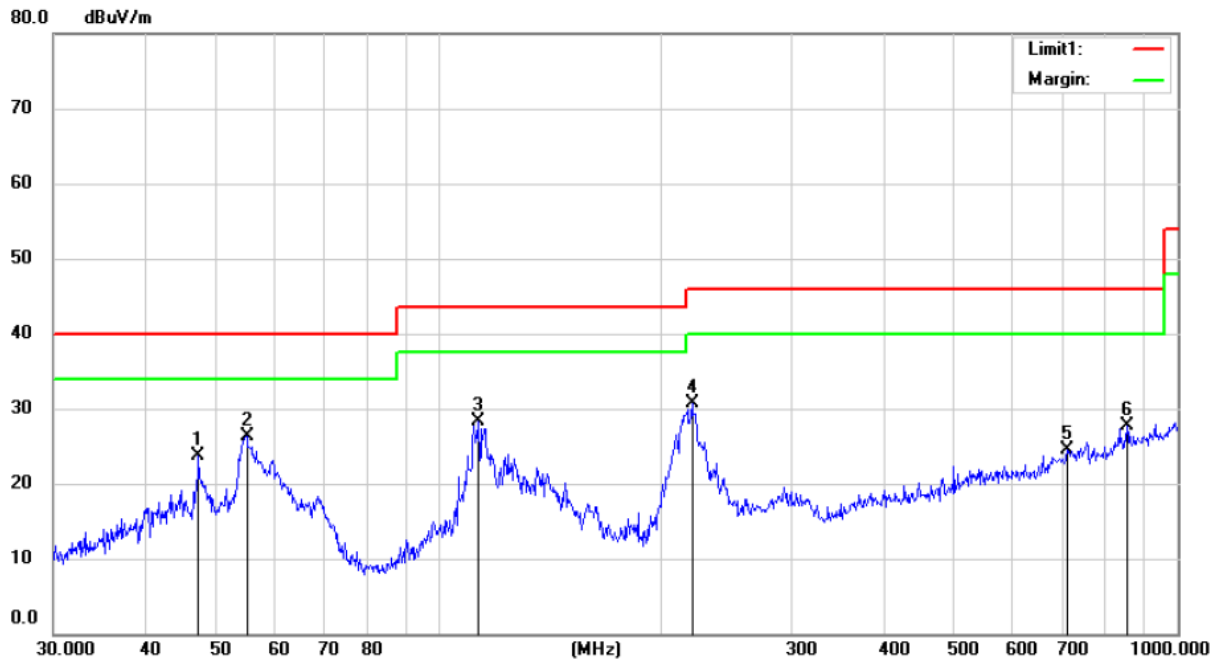
Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.3831	46.94	20.80	67.74	95.94	-28.20	peak		
2	*	0.6371	38.31	20.75	59.06	71.53	-12.47	peak		
3		0.8944	33.86	20.70	54.56	68.59	-14.03	peak		
4		0.9531	29.30	20.70	50.00	68.04	-18.04	peak		
5		1.1473	30.47	20.66	51.13	66.43	-15.30	peak		
6		1.4032	26.77	20.58	47.35	64.69	-17.34	peak		

30MHz-1GHz:



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 27 C

Limit: (RE)FCC PART 15C

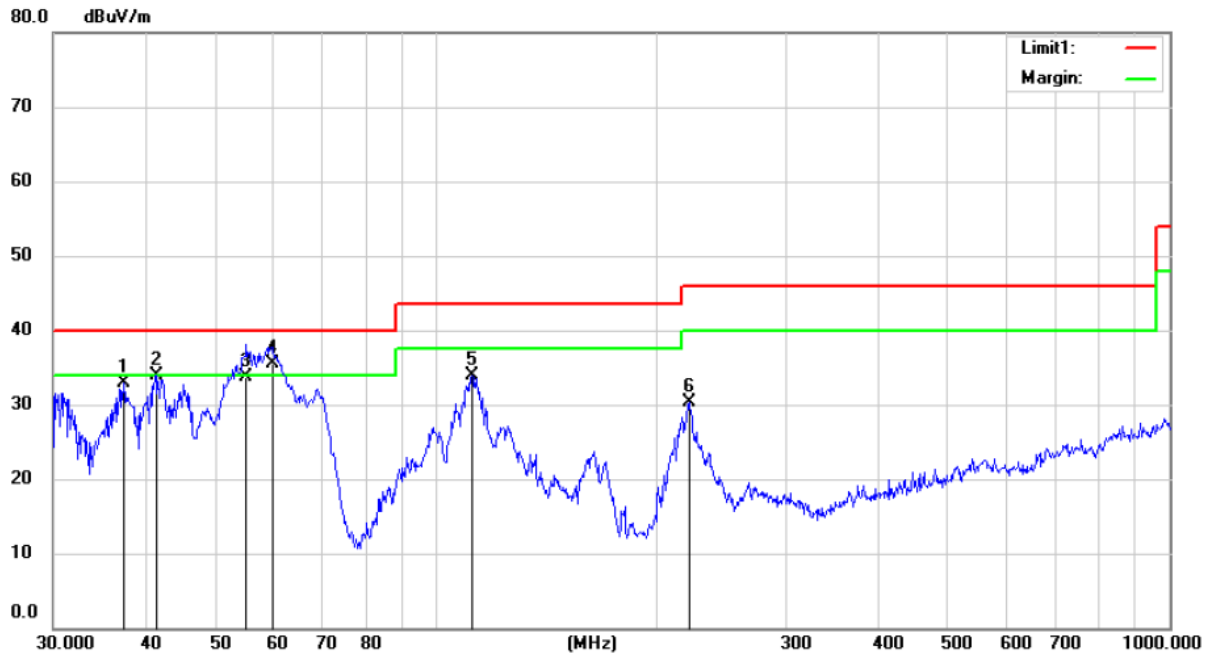
Power: AC 120V/60Hz

Humidity: 49 %

Mode:Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		47.1764	37.57	-13.83	23.74	40.00	-16.26	QP		
2	*	54.9696	41.44	-15.04	26.40	40.00	-13.60	QP		
3		112.9988	43.91	-15.60	28.31	43.50	-15.19	QP		
4		220.3080	45.10	-14.43	30.67	46.00	-15.33	QP		
5		710.1777	28.86	-4.44	24.42	46.00	-21.58	QP		
6		856.1236	29.96	-2.28	27.68	46.00	-18.32	QP		



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15C

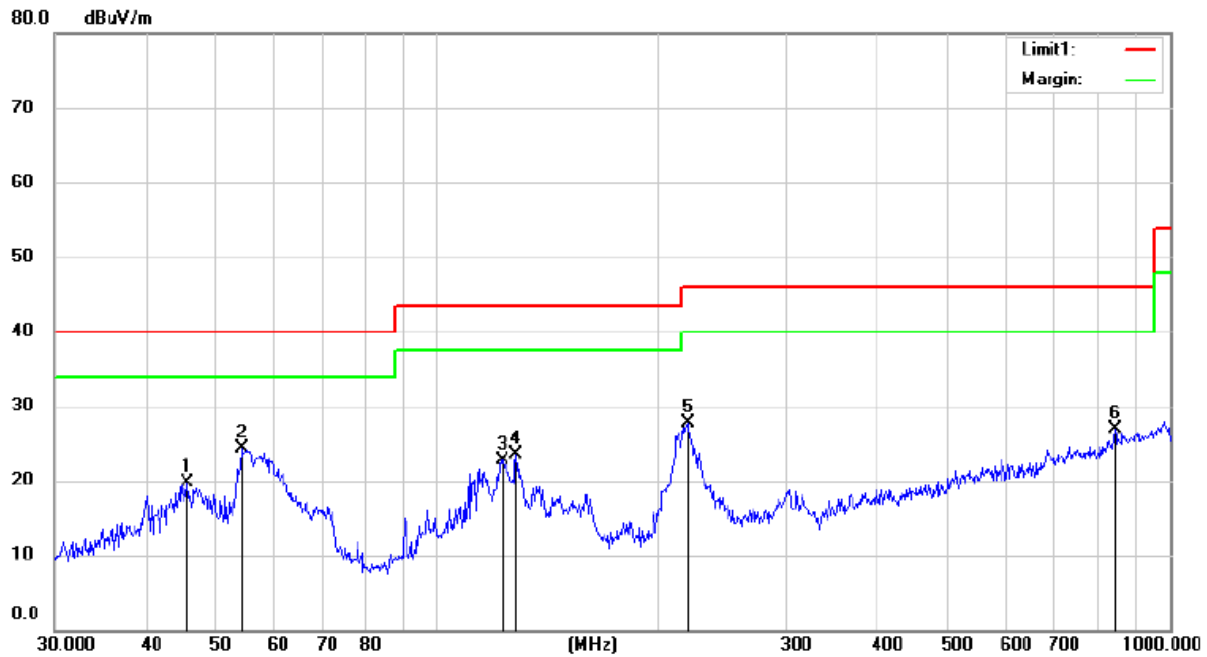
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(100% Load, 10W RX Load at center)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		37.4296	48.57	-15.75	32.82	40.00	-7.18	QP		
2		41.5088	49.16	-15.26	33.90	40.00	-6.10	QP		
3		55.1820	48.92	-15.12	33.80	40.00	-6.20	QP		
4	*	59.7960	52.47	-16.87	35.60	40.00	-4.40	QP		
5		111.9341	49.48	-15.55	33.93	43.50	-9.57	QP		
6		221.5474	44.73	-14.38	30.35	46.00	-15.65	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 27 C

Limit: (RE)FCC PART 15C

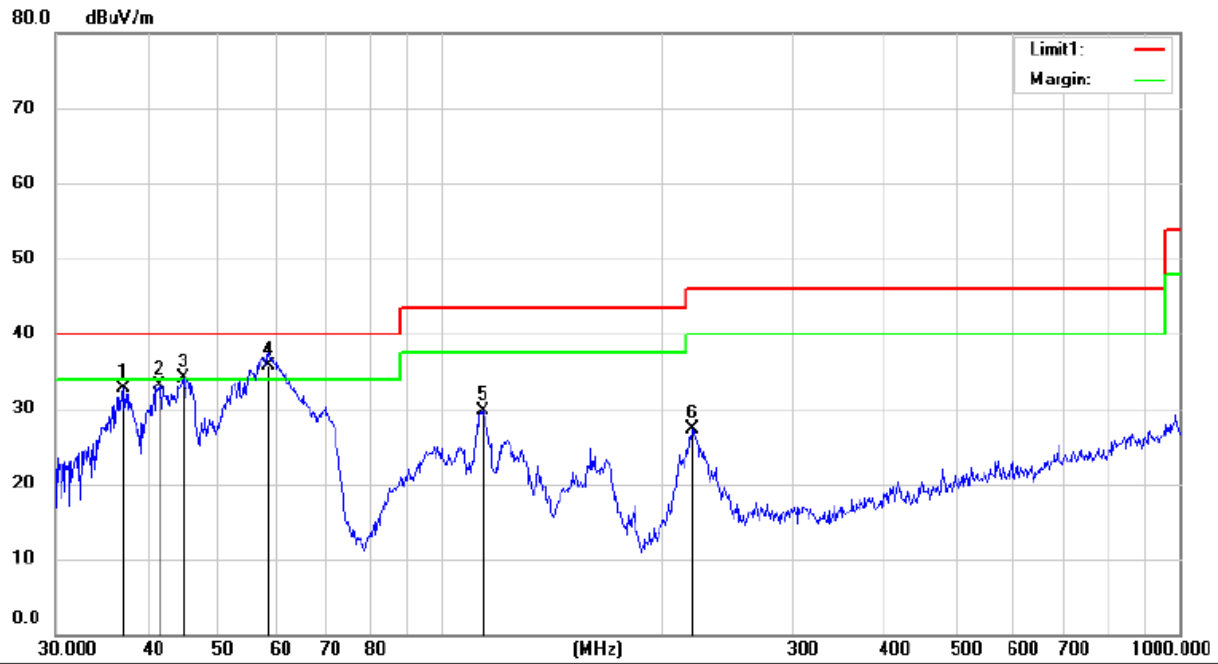
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		45.6307	33.78	-14.17	19.61	40.00	-20.39	QP		
2	*	54.1850	39.11	-14.73	24.38	40.00	-15.62	QP		
3		123.0927	39.31	-16.55	22.76	43.50	-20.74	QP		
4		128.4278	40.58	-17.10	23.48	43.50	-20.02	QP		
5		220.5398	42.19	-14.42	27.77	46.00	-18.23	QP		
6		842.7204	29.35	-2.52	26.83	46.00	-19.17	QP		



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15C

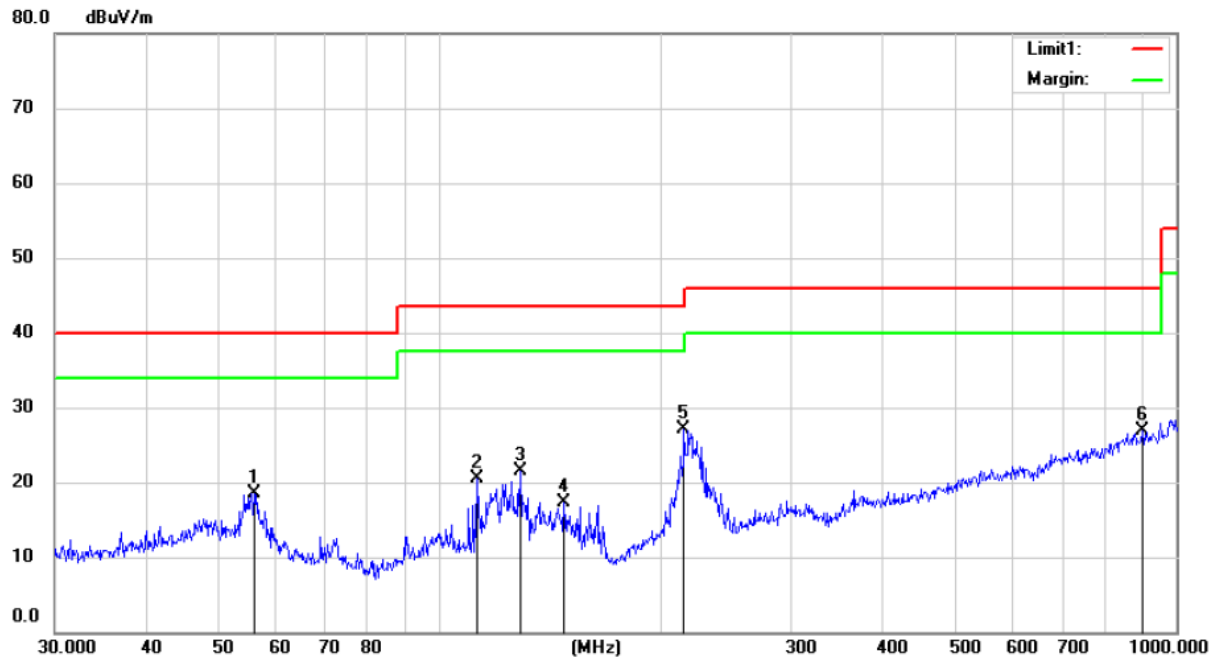
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Charging(10W RX Load with 3mm airgap at center)

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		37.2071	48.52	-15.82	32.70	40.00	-7.30	QP		
2		41.5380	48.29	-15.25	33.04	40.00	-6.96	QP		
3	!	44.8534	48.67	-14.49	34.18	40.00	-5.82	QP		
4	*	58.5305	52.13	-16.43	35.70	40.00	-4.30	QP		
5		113.9938	45.44	-15.66	29.78	43.50	-13.72	QP		
6		219.4598	41.85	-14.47	27.38	46.00	-18.62	QP		



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 27 C

Limit: (RE)FCC PART 15C

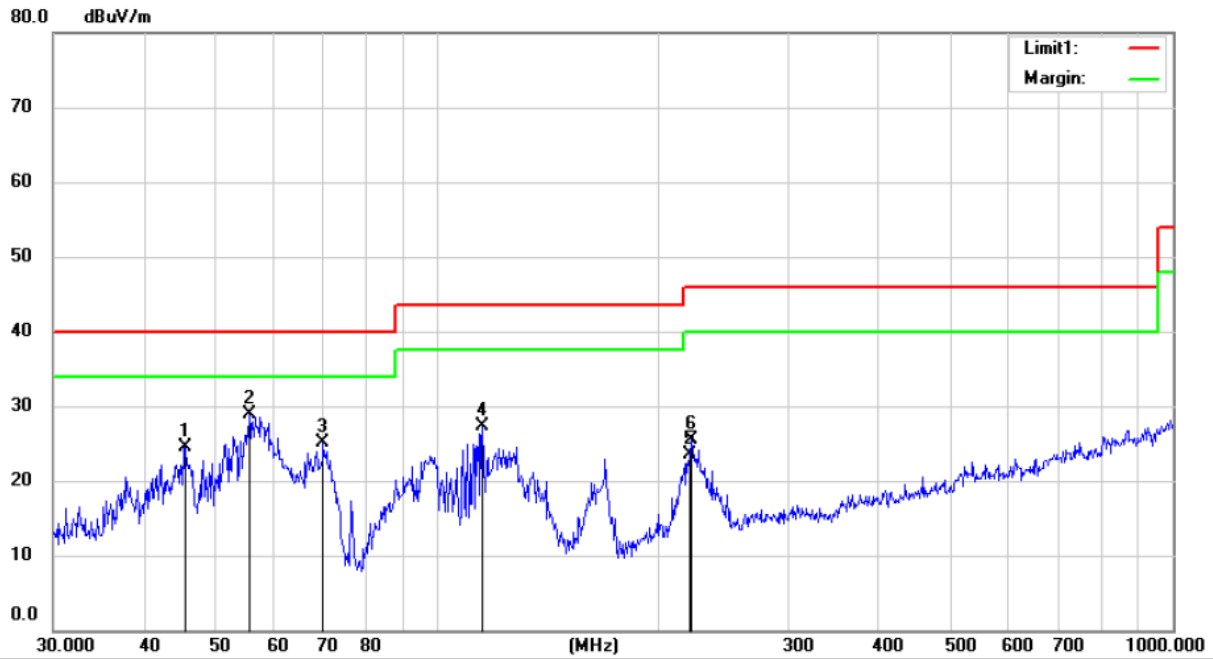
Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		56.1187	34.07	-15.50	18.57	40.00	-21.43			
2		112.6823	36.06	-15.59	20.47	43.50	-23.03			
3		128.8338	38.65	-17.15	21.50	43.50	-22.00			
4		147.6623	36.01	-18.77	17.24	43.50	-26.26			
5	*	215.1923	41.86	-14.67	27.19	43.50	-16.31			
6		900.4631	29.04	-2.13	26.91	46.00	-19.09			



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 49 %

Mode: Stand by

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		45.5030	38.79	-14.22	24.57	40.00	-15.43	QP		
2	*	55.5510	44.22	-15.27	28.95	40.00	-11.05	QP		
3		70.0657	43.06	-18.02	25.04	40.00	-14.96	QP		
4		115.1185	43.11	-15.73	27.38	43.50	-16.12	QP		
5		220.3080	37.94	-14.43	23.51	46.00	-22.49	QP		
6		221.8584	39.95	-14.37	25.58	46.00	-20.42	QP		