

# TEST REPORT

**Application No.:** SHEM2103002212HS  
**FCC ID:** BEJV174NAA  
**Applicant:** LG Electronics USA  
**Address of Applicant:** 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey 07632 United States  
**Manufacturer:** LG Electronics Tianjin Appliances Co., Ltd.  
**Address of Manufacturer:** No.9 Jin Wei Road, Bei Chen District, Tianjin 300402, P.R.China  
**Factory:** LG Electronics Tianjin Appliances Co., Ltd.  
**Address of Factory:** No.9 Jin Wei Road, Bei Chen District, Tianjin 300402, P.R.China  
**Equipment Under Test (EUT):**  
**EUT Name:** Microwave oven  
**Model No.:** LMV1751ST, LMV1756##, JNM3184##### (#: From A to Z, from 0 to 9 or blank for inventory control)  
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade mark:** LG  
**Standard(s) :** 47 CFR Part 18  
**Date of Receipt:** 2021-03-17  
**Date of Test:** 2021-03-22 to 2021-03-23  
**Date of Issue:** 2021-03-25

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Parlam Zhan*



Parlam Zhan  
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-03-25	/

<b>Authorized for issue by:</b>			
			
		_____ <b>Leo Xu / Project Engineer</b>	
			
		_____ <b>Bruce Tang / Reviewer</b>	



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Testing Center EMC Laboratory | 中国·上海·松江区金都西路588号 邮编: 201612 | (86-21) 61915666 f(86-21)61915678 e sgs.china@sgs.com

## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (Magnetic field Strength)(150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Input Power	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
RF Power Output Measurement according to MP-5	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
Frequency measurements	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
Power Density Safety Check	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass

Note1: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. We test the model LMV1751ST since their differences in alternative Noise Filter and HVT(EBJ60664616).

Note2: Add alternative Noise Filter.

Note3: Add alternative HVT(EBJ60664616), Only Base Bracket structure change (size reduced) to improve noise. No specification change.



### 3 Contents

	Page
1 COVER PAGE .....	1
2 TEST SUMMARY .....	3
3 CONTENTS .....	4
4 GENERAL INFORMATION .....	5
4.1 DETAILS OF E.U.T. ....	5
4.2 DESCRIPTION OF SUPPORT UNITS .....	5
4.3 MEASUREMENT UNCERTAINTY .....	5
4.4 TEST LOCATION .....	6
4.5 TEST FACILITY .....	6
4.6 DEVIATION FROM STANDARDS .....	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	6
5 EQUIPMENT LIST .....	7
6 EMISSION TEST RESULTS .....	9
6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) .....	9
6.2 RADIATED EMISSIONS (30MHZ-1GHZ) .....	14
6.3 RADIATED EMISSIONS (ABOVE 1GHZ) .....	17
6.4 RADIATED EMISSIONS (MAGNETIC FIELD STRENGTH)(150KHZ-30MHZ).....	20
6.5 INPUT POWER.....	22
6.6 RF POWER OUTPUT MEASUREMENT ACCORDING TO MP-5 .....	22
6.7 FREQUENCY MEASUREMENTS .....	23
6.8 POWER DENSITY SAFETY CHECK.....	24
7 TEST SETUP PHOTOGRAPHS .....	25
8 EUT CONSTRUCTIONAL DETAILS .....	25



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	AC 120V/60Hz
Test voltage:	AC 120V 60Hz
AC Cable:	1.2m
Rated output power:	900W
Operation frequency:	2450±50MHz
Mode of stirrer:	Turntable

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.6dB (9kHz to 150kHz)
		2.4dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	1.8 dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	4.2 dB (150kHz to 30MHz)
4	Radiated Power	3.2dB
5	Radiated Emission	4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-26GHz)
6	Radiated Disturbance (disturbance current in a LLAS)	2.4dB (9kHz to 30MHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services(Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **NVLAP (LAB CODE: 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

- **FCC (Designation Number: CN5033)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2020-12-20	2021-12-19
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2020-12-20	2021-12-19
Line impedance stabilization network	EMCO	3816/2	SHEM019-1	2020-12-20	2021-12-19
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2020-12-20	2021-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020-12-20	2023-12-19
CE test Cable	/	/	CE01	2020-12-20	2021-12-19

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2020-12-20	2021-12-19
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
Low Amplifier	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2020-08-13	2021-08-12

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2020-12-20	2021-12-19
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Double ridged broadband horn ANTENNA	SCHWARZBECK	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
High-amplifier	SCHWARZBECK	SCU-F0118-G40-BZ4-CS	SHEM050-2	2020-12-20	2021-12-19
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24

Radiated Emissions (Magnetic field Strength)(150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2020-12-20	2021-12-19
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Loop antenna	Schwarzbeck - Mess-Elektronik	FMZB1519	SHEM135-1	2020-12-20	2021-12-19



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Report No.: SHEM210300221201  
Page: 8 of 25

Low Amplifier	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2020-08-13	2021-08-12
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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2021-01-22	2024-01-21
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2020-09-11	2021-09-10
Digital Multimeter	FLUKE	17B	SHEM043-3	2020-09-09	2021-09-08
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2020-12-20	2021-12-19
Electromagnetic Field Probe	Narda	NBM-550	SHEM0907-1	2021-04-10	2022-04-09
Probe	Narda	EF1891	SHEM0907-2	2021-04-10	2022-04-09



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## 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC OST/MP-5:1986
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

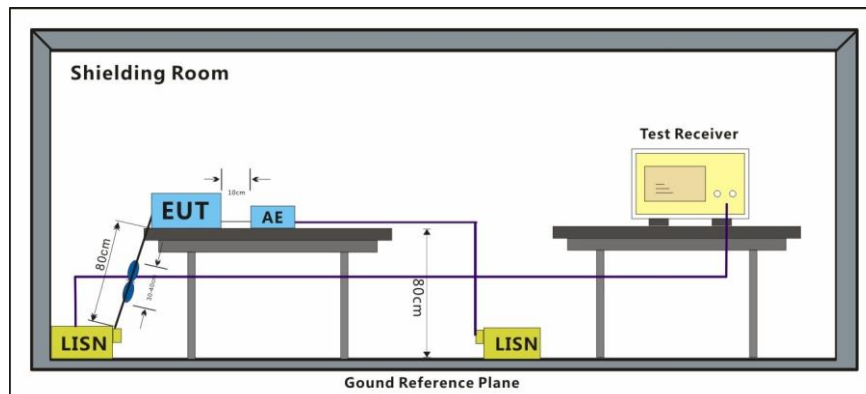
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Keep model LMV1751ST running & heating (1000mL water with glass beaker and heating under max RF output power) (water 1000ml,700ml,300ml)

#### 6.1.2 Test Setup Diagram

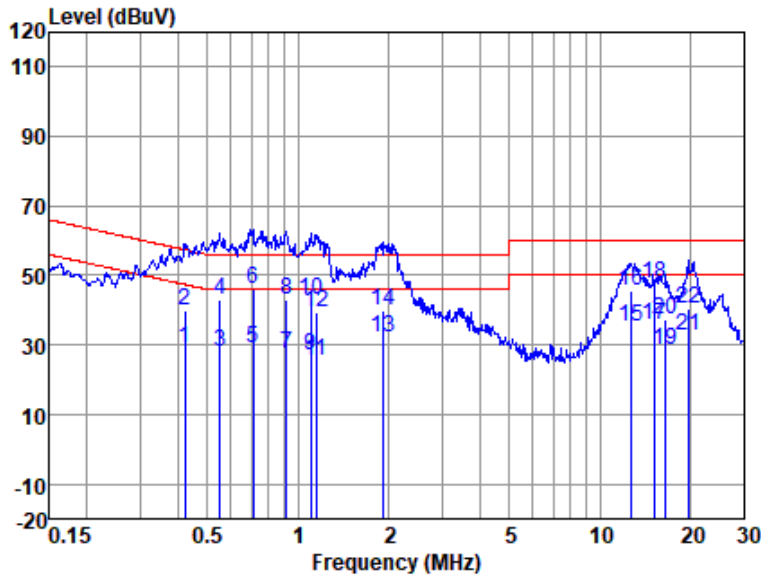


#### 6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Mode:a; Line:Live Line



LISN : LINE  
EUT/Project No : 2212HS  
Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.42	18.60	0.20	10.04	28.84	47.42	-18.58	Average
2	0.42	29.60	0.20	10.04	39.84	57.42	-17.58	QP
3	0.55	17.54	0.20	10.06	27.80	46.00	-18.20	Average
4	0.55	32.90	0.20	10.06	43.16	56.00	-12.84	QP
5	0.71	18.96	0.20	10.08	29.24	46.00	-16.76	Average
6	0.71	35.79	0.20	10.08	46.07	56.00	-9.93	QP
7	0.91	17.11	0.20	10.09	27.40	46.00	-18.60	Average
8	0.91	32.59	0.20	10.09	42.88	56.00	-13.12	QP
9	1.11	16.75	0.20	10.11	27.06	46.00	-18.94	Average
10	1.11	32.66	0.20	10.11	42.97	56.00	-13.03	QP
11	1.15	15.39	0.20	10.11	25.70	46.00	-20.30	Average
12	1.15	29.00	0.20	10.11	39.31	56.00	-16.69	QP
13	1.92	21.82	0.20	10.15	32.17	46.00	-13.83	Average
14	1.92	29.40	0.20	10.15	39.75	56.00	-16.25	QP
15	12.78	24.51	0.42	10.42	35.35	50.00	-14.65	Average
16	12.78	34.51	0.42	10.42	45.35	60.00	-14.65	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Report No.: SHEM210300221201  
Page: 11 of 25

Mode:a; Line:Live Line

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
17	15.15	24.65	0.51	10.43	35.59	50.00	-14.41	Average
18	15.15	36.65	0.51	10.43	47.59	60.00	-12.41	QP
19	16.57	17.34	0.57	10.44	28.35	50.00	-21.65	Average
20	16.57	26.34	0.57	10.44	37.35	50.00	-12.65	Average
21	19.74	21.39	0.69	10.45	32.53	60.00	-27.47	QP
22	19.74	29.39	0.69	10.45	40.53	60.00	-19.47	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



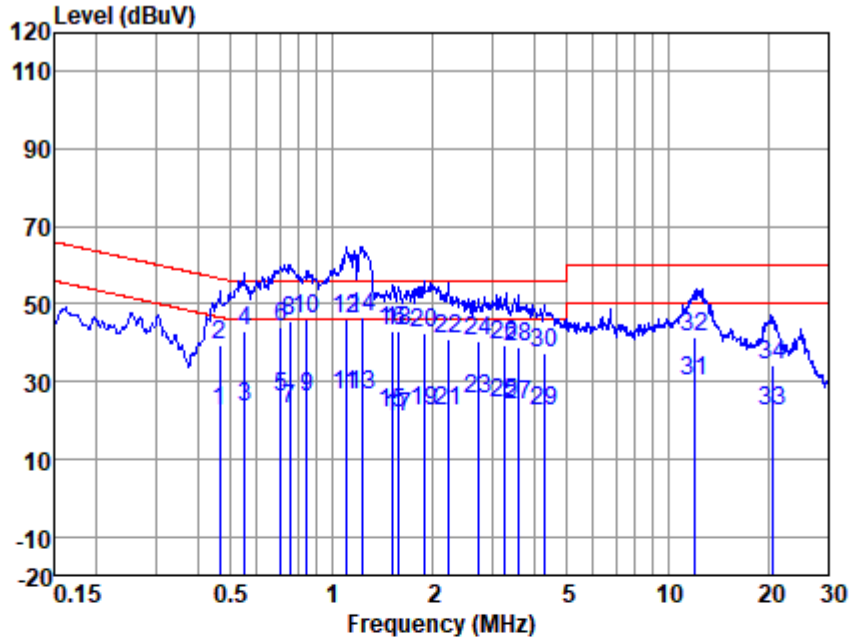
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Testing Center EMC Lab

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Mode:a; Line:Neutral Line



LISN : NEUTRAL  
EUT/Project No : 2212HS  
Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.46	12.21	0.20	10.05	22.46	46.63	-24.17	Average
2	0.46	29.21	0.20	10.05	39.46	56.63	-17.17	QP
3	0.55	13.31	0.20	10.06	23.57	46.00	-22.43	Average
4	0.55	32.87	0.20	10.06	43.13	56.00	-12.87	QP
5	0.70	15.63	0.20	10.08	25.91	46.00	-20.09	Average
6	0.70	33.87	0.20	10.08	44.15	56.00	-11.85	QP
7	0.75	12.69	0.20	10.08	22.97	46.00	-23.03	Average
8	0.75	35.17	0.20	10.08	45.45	56.00	-10.55	QP
9	0.84	15.67	0.20	10.09	25.96	46.00	-20.04	Average
10	0.84	35.64	0.20	10.09	45.93	56.00	-10.07	QP
11	1.10	16.43	0.20	10.11	26.74	46.00	-19.26	Average
12	1.10	35.86	0.20	10.11	46.17	56.00	-9.83	QP
13	1.24	16.08	0.20	10.12	26.40	46.00	-19.60	Average
14	1.24	36.38	0.20	10.12	46.70	56.00	-9.30	QP
15	1.52	11.29	0.20	10.13	21.62	46.00	-24.38	Average
16	1.52	32.45	0.20	10.13	42.78	56.00	-13.22	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:a; Line:Neutral Line

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
17	1.59	10.51	0.20	10.13	20.84	46.00	-25.16	Average
18	1.59	32.55	0.20	10.13	42.88	56.00	-13.12	QP
19	1.88	11.80	0.20	10.15	22.15	46.00	-23.85	Average
20	1.88	32.26	0.20	10.15	42.61	56.00	-13.39	QP
21	2.22	12.18	0.20	10.17	22.55	46.00	-23.45	Average
22	2.22	30.42	0.20	10.17	40.79	56.00	-15.21	QP
23	2.75	15.28	0.20	10.20	25.68	46.00	-20.32	Average
24	2.75	30.28	0.20	10.20	40.68	56.00	-15.32	QP
25	3.28	13.96	0.20	10.23	24.39	46.00	-21.61	Average
26	3.28	28.96	0.20	10.23	39.39	56.00	-16.61	QP
27	3.58	13.68	0.20	10.25	24.13	46.00	-21.87	Average
28	3.58	28.68	0.20	10.25	39.13	56.00	-16.87	QP
29	4.29	12.04	0.20	10.27	22.51	46.00	-23.49	Average
30	4.29	27.04	0.20	10.27	37.51	56.00	-18.49	QP
31	12.06	19.46	0.39	10.41	30.26	50.00	-19.74	Average
32	12.06	30.46	0.39	10.41	41.26	60.00	-18.74	QP
33	20.59	11.17	0.73	10.45	22.35	50.00	-27.65	Average
34	20.59	23.17	0.73	10.45	34.35	60.00	-25.65	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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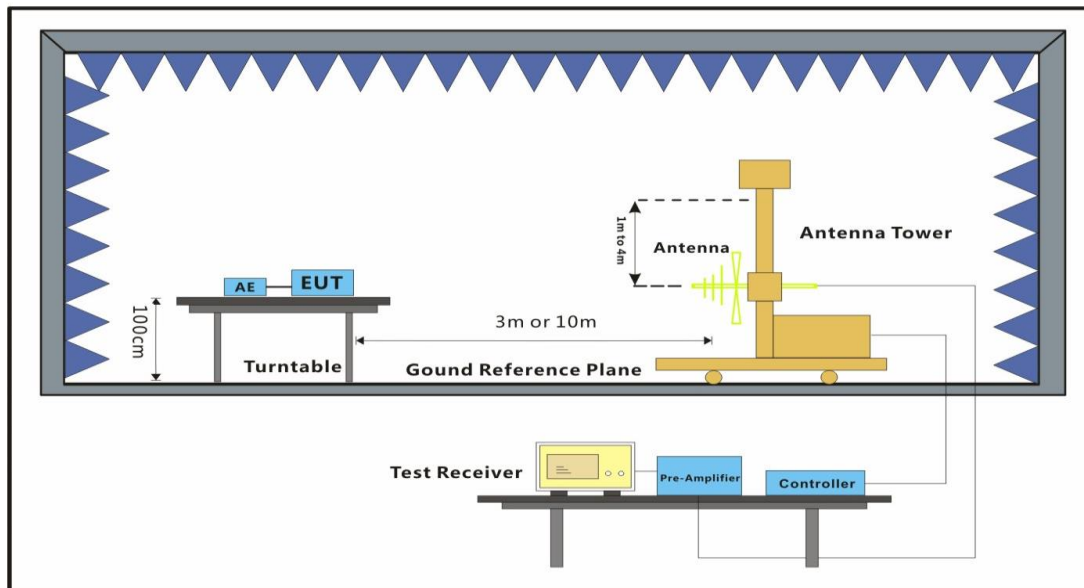
## 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18  
 Test Method: FCC OST/MP-5:1986  
 Frequency Range: 30MHz to 1GHz  
 Measurement Distance: 3m  
 Limit:  
 30MHz -1000MHz 70.4(dBμV/m) average  
 (Limit=40+20\*log(25\*SQRT(P/500)) =40+20\*log33.218=40+30.4=70.4)  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: a: Keep model LMV1751ST running & heating (1000mL water with glass beaker and heating under max RF output power) (water 1000ml,700ml,300ml)

### 6.2.2 Test Setup Diagram

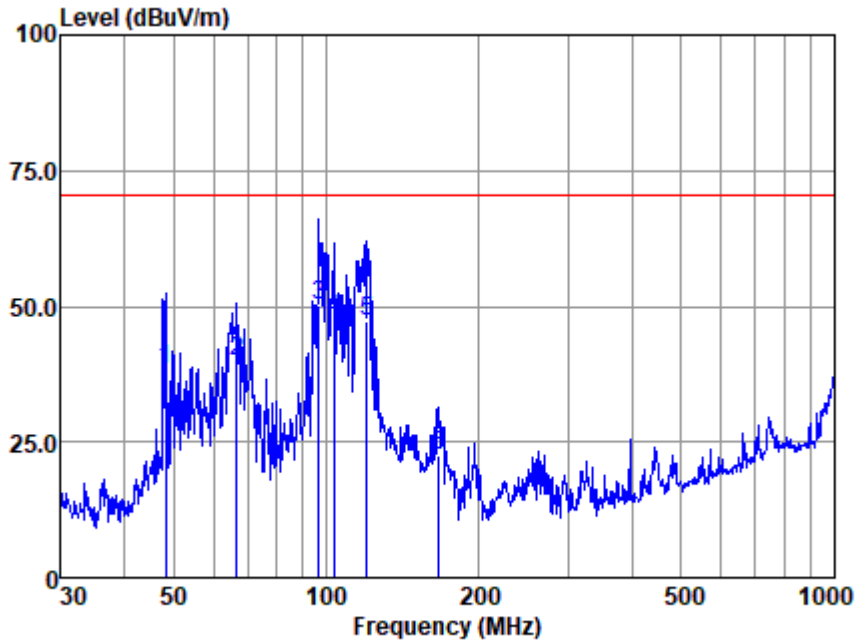


### 6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2212HS  
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.163	66.17	13.63	0.99	42.30	38.49	70.40	-31.91	Average
2	66.499	68.61	12.18	1.18	42.30	39.67	70.40	-30.73	Average
3	96.775	82.53	8.40	1.47	42.30	50.10	70.40	-20.30	Average
4	103.442	79.31	9.20	1.51	42.29	47.73	70.40	-22.67	Average
5	120.277	76.69	11.03	1.65	42.25	47.12	70.40	-23.28	Average
6	166.651	49.77	12.93	1.96	42.20	22.46	70.40	-47.94	Average

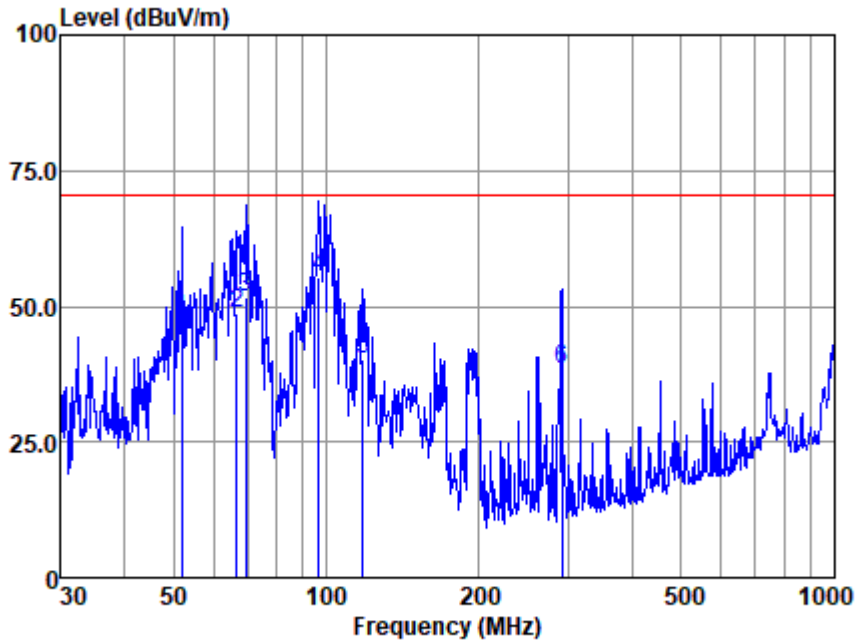
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2212HS  
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	51.843	75.34	13.58	1.03	42.30	47.65	70.40	-22.75	Average
2	66.499	77.69	12.18	1.18	42.30	48.75	70.40	-21.65	Average
3	69.357	80.81	11.80	1.21	42.30	51.52	70.40	-18.88	Average
4	96.775	87.64	8.40	1.47	42.30	55.21	70.40	-15.19	Average
5	117.773	69.96	10.81	1.62	42.26	40.13	70.40	-30.27	Average
6	291.036	64.43	13.08	2.79	42.10	38.20	70.40	-32.20	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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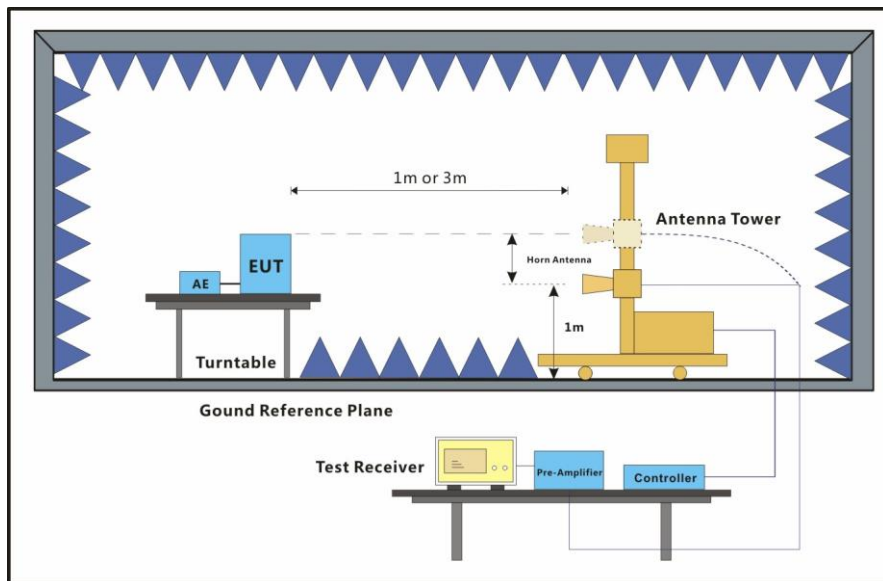
### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18  
 Test Method: FCC OST/MP-5:1986  
 Frequency Range: Above 1GHz  
 Measurement Distance: 3m  
 Limit:  
 1GHz -26GHz 70.4(dBμV/m) average  
 (Limit=40+20\*log(25\*SQRT(P/500)) =40+20\*log33.218=40+30.4=70.4)  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHZ

#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: a: Keep model LMV1751ST running & heating (1000mL water with glass beaker and heating under max RF output power) (water 1000ml,700ml,300ml)

#### 6.3.2 Test Setup Diagram

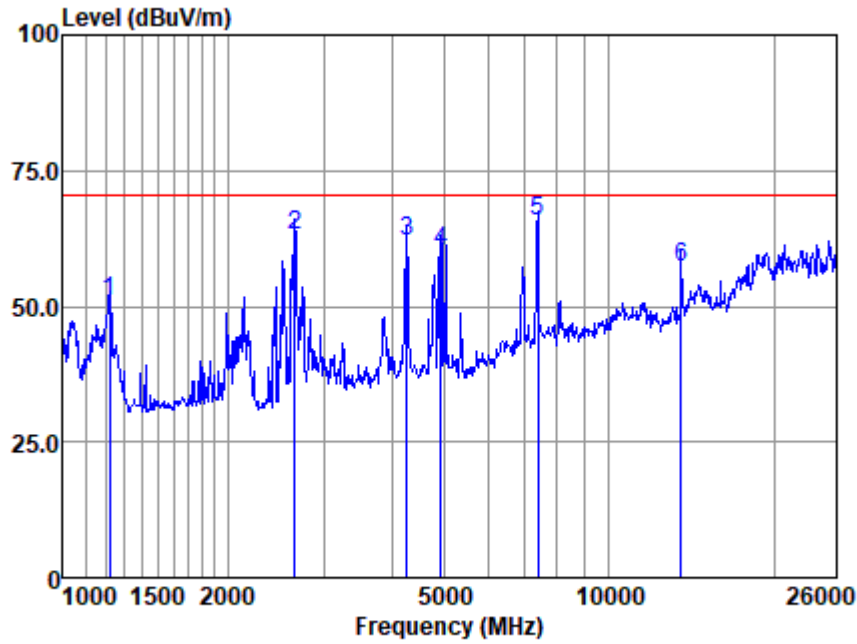


#### 6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



Mode:a; Polarization:Horizontal



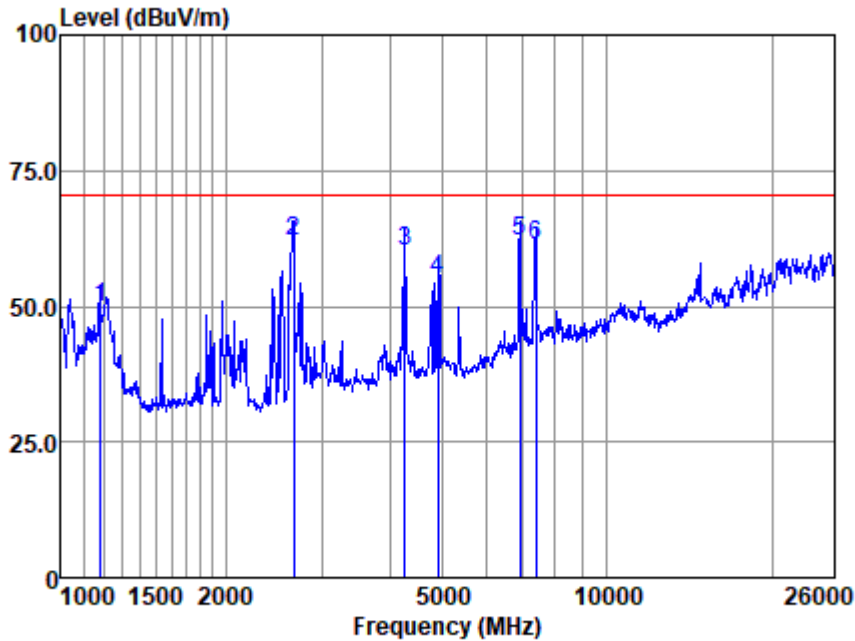
Antenna Polarity :HORIZONTAL  
EUT/Project :2212HS  
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1219.870	62.00	24.49	5.57	41.15	50.91	70.40	-19.49	Average
2	2657.615	68.70	27.93	8.98	42.40	63.21	70.40	-7.19	Average
3	4262.488	61.99	30.19	12.22	42.40	62.00	70.40	-8.40	Average
4	4919.511	58.33	31.44	12.72	42.40	60.09	70.40	-10.31	Average
5	7392.539	56.17	36.83	15.33	42.78	65.55	70.40	-4.85	Average
6	13551.230	42.66	40.25	17.28	43.08	57.11	70.40	-13.29	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2212HS  
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1180.766	61.12	24.39	5.49	41.14	49.86	70.40	-20.54	Average
2	2666.288	67.32	27.95	8.98	42.40	61.85	70.40	-8.55	Average
3	4262.488	60.07	30.19	12.22	42.40	60.08	70.40	-10.32	Average
4	4903.509	53.25	31.41	12.67	42.40	54.93	70.40	-15.47	Average
5	6926.187	53.74	35.66	15.11	42.69	61.82	70.40	-8.58	Average
6	7392.539	51.97	36.83	15.33	42.78	61.35	70.40	-9.05	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



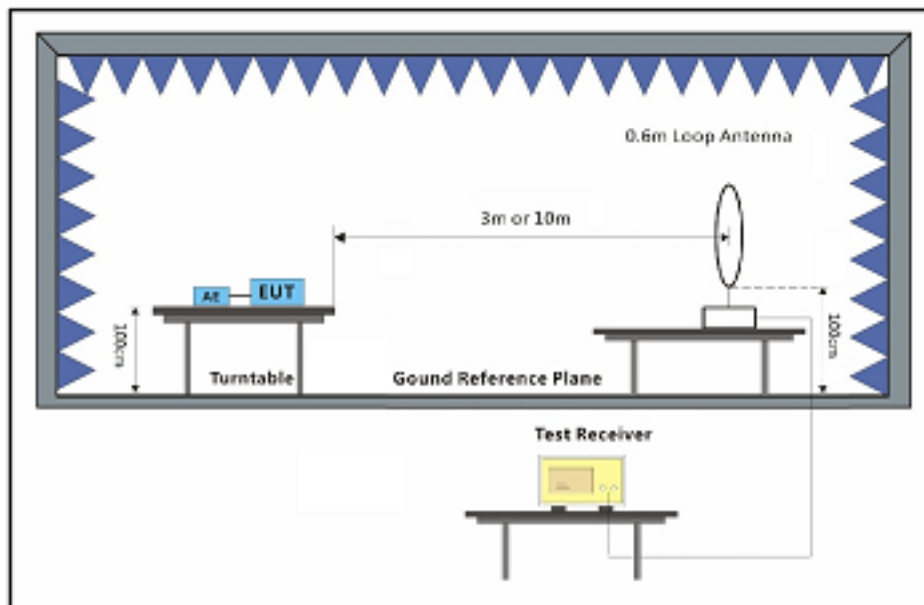
### 6.4 Radiated Emissions (Magnetic field Strength)(150kHz-30MHz)

Test Requirement: 47 CFR Part 18  
 Test Method: FCC OST/MP-5:1986  
 Frequency Range: 150kHz to 30MHz  
 Measurement Distance: 3m  
 Limit:  
 0.15MHz -30MHz 70.4(dBμV/m) average  
 (Limit=40+20\*log(25\*SQRT(P/500)) =40+20\*log33.218=40+30.4=70.4)  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 30M to1000MHZ

#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: a: Keep model LMV1751ST running & heating (1000mL water with glass beaker and heating under max RF output power) (water 1000ml,700ml,300ml)

#### 6.4.2 Test Setup Diagram

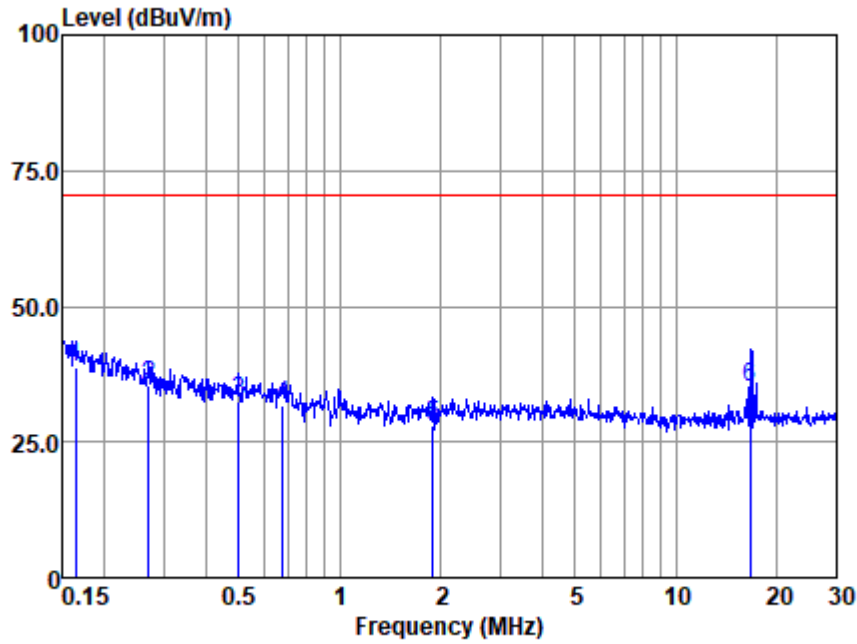


#### 6.4.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2212HS  
Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuA/uVm	dB	dBuA/m	dBuA/m	dB	
1	0.163	18.65	20.00	0.04	38.69	70.40	-31.71	Average
2	0.270	15.50	20.00	0.05	35.55	70.40	-34.85	Average
3	0.499	12.43	20.10	0.09	32.62	70.40	-37.78	Average
4	0.679	11.69	20.10	0.10	31.89	70.40	-38.51	Average
5	1.898	7.79	20.29	0.14	28.22	70.40	-42.18	Average
6	16.661	14.18	20.13	0.61	34.92	70.40	-35.48	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss



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## 6.5 Input Power

The input power was measured using Wattmeter. A 275 ml water load in a polypropylene beaker is placed in the centre of the oven. The 275 ml water was chosen for its compatibility with UL procedure to determine input ratings. The oven was operated at the rated input and full output power for 6 minutes.

### 6.5.1 Result

#### LMV1751ST

Mode: Microwave

Input Voltage: AC 119.6V 60Hz

Current [A]: 12.8

Power Consumption[W]: 1530.35

Manufacturer Rating [A]: 12.5

## 6.6 RF Power Output Measurement according to MP-5

The Calorimetric Method was used to determine maximum output power. A 1,000 ml water load was placed in the center of the oven. A mercury thermometer was used to measure temperature rise. The test method was described in MP-5.

### 6.6.1 Result

#### LMV1751ST

Power[W]=(4.187 Joules/Cal)\*(Volume in ml)\*(Temperature Rise)/Time in Seconds

Water 1000mL

Start Temperature: 10.6 °C

Final Temperature: 35.9 °C

Elapsed Time:120s

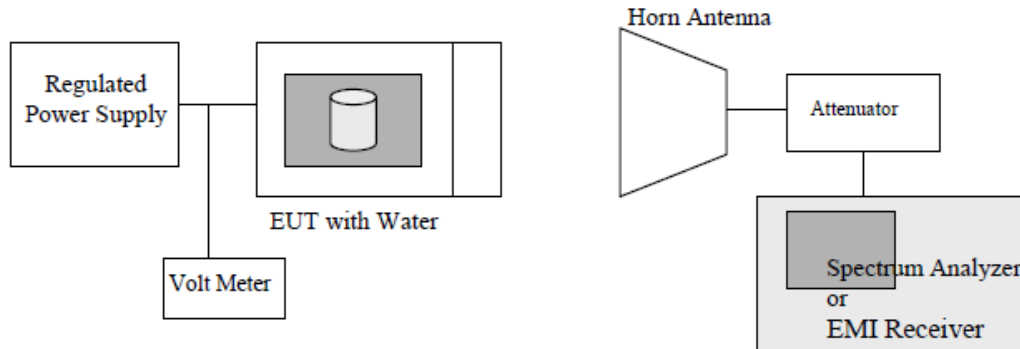
Power[W]=4.187\*1000\*25.3/120=882.76



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## 6.7 Frequency measurements



### 6.7.1 Result

#### (1) Frequency vs Line Voltage Variation Test

Variation of line voltage from 80 % (96 V) to 125 % (150 V)

Load: 1,000 ml

Fundamental Frequency: 2,450 MHz

Limit:  $2.4 \text{ GHz} < f < 2.5 \text{ GHz}$

#### **LMV1751ST**

#### (1) Frequency vs Line Voltage Variation Test

Variation of line voltage from 80 % (96 V) to 125 % (150 V)

Load: 1,000 ml

Fundamental Frequency: 2,450 MHz

Limit:  $2.4 \text{ GHz} < f < 2.5 \text{ GHz}$

Maximum Frequency Observed: 2,472 MHz

Minimum Frequency Observed: 2,442 MHz

#### (2) Frequency vs Load Variation Test

Frequency was measured at the rated input voltage (AC 120 V).

Initial Load: 1,000 ml

Final Load: 200 ml

Fundamental Frequency: 2,450 MHz

Limit:  $2.4 \text{ GHz} < f < 2.5 \text{ GHz}$

Maximum Frequency Observed: 2,470 MHz

Minimum Frequency Observed: 2,445 MHz



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## 6.8 Power Density Safety Check

The power density was checked to ensure that the power is not greater than 1.0 mW/cm<sup>2</sup> at any location of the oven. The 1.0 mW/cm<sup>2</sup> is in accordance with CDRH and UL923 standard.

A microwave survey meter was placed on all sides, door and viewing, bottom, top and rear. The leakage microwave did not exceed the specified limits.

### 6.8.1 Result

#### LMV1751ST

Maximum Leakage Microwave Observed: 0.47 mW/cm<sup>2</sup>



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## 7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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