

TEST REPORT

Applicant Name : Zhongshan Donlim Weili Electrical Appliances Co.,Ltd.
 Address : Fusha Industrial Park, Fusha Town, Zhongshan City, Guangdong
 Province, China
 Report Number : RA230601-30977E-EM-01
 FCC ID: YI4DWC28PCS20

Test Standard (s)

FCC Part 18

Sample Description

Product Type: Microwave Oven
 Model No.: C28PCS20-A90, C28PCS19-A90
 Trade Mark: N/A
 Date Received: 2023-06-01
 Date of Test: 2023-06-07
 Report Date: 2023-06-29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Zeki Ma

 Zeki.Ma
 EMC Engineer

Approved By:

Candy Li

 Candy Li
 EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
 Tel: +86 755-26503290 Fax: +86 755-26503290 Web: www.atc-lab.com

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230601-30977E-EM-01	Original Report	2023-06-29

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Microwave Oven
Tested Model	C28PCS20-A90
Multiple Model	C28PCS19-A90
Model Difference	Please refer to DOS letter
Voltage Range	AC 120V/60Hz
Microwave Output power	900W
Microwave Input power	1400W
Sample serial number	26GS-1 (Assigned by ATC)
Sample/EUT Status	Good condition
Note: There are appearance differences between the two models, please refer to the EUT photo.	

Objective

This report is in accordance with Part 2-Subpart J, and Part 18-Subparts A, B and C of the Federal Communication Commission's rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986.

All measurements were performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.
Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
RF Frequency		0.082×10^{-7}
AC Power Lines Conducted Emissions		2.74dB
Emissions, Radiated	30MHz - 1GHz	5.08dB
	1GHz - 18GHz	4.96dB
	18GHz - 26.5GHz	5.16dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 30241.

OPERATING CONDITION/TEST CONFIGURATION

Justification

The EUT was operated at maximum (continuous) RF output power. The loads consisted of water in a glass beaker in the amounts specified in the test procedure.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory was used.

Equipment Modifications

No modifications were made to the EUT tested.

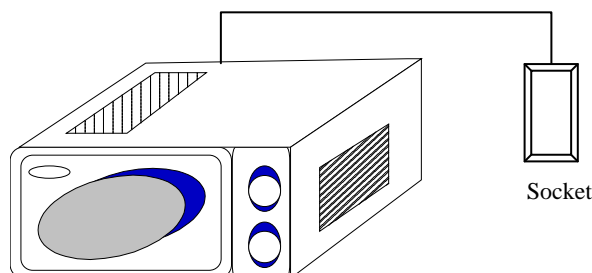
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	Glass beaker	/	/

External Cable List and Details

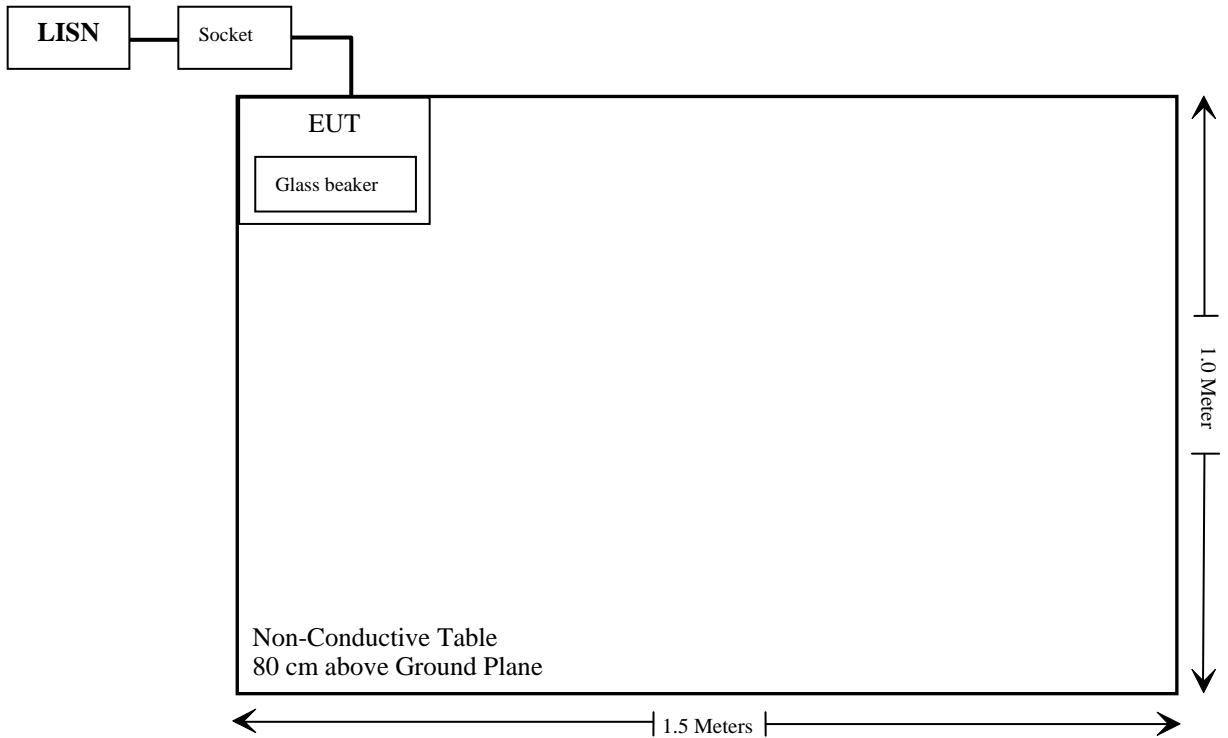
Cable Description	Length (m)	From/Port	To
Unshielded un-detachable AC cable	1.10	EUT	Socket
Unshielded un-detachable AC cable	1.01	Socket	LISN

Configuration of Test Setup

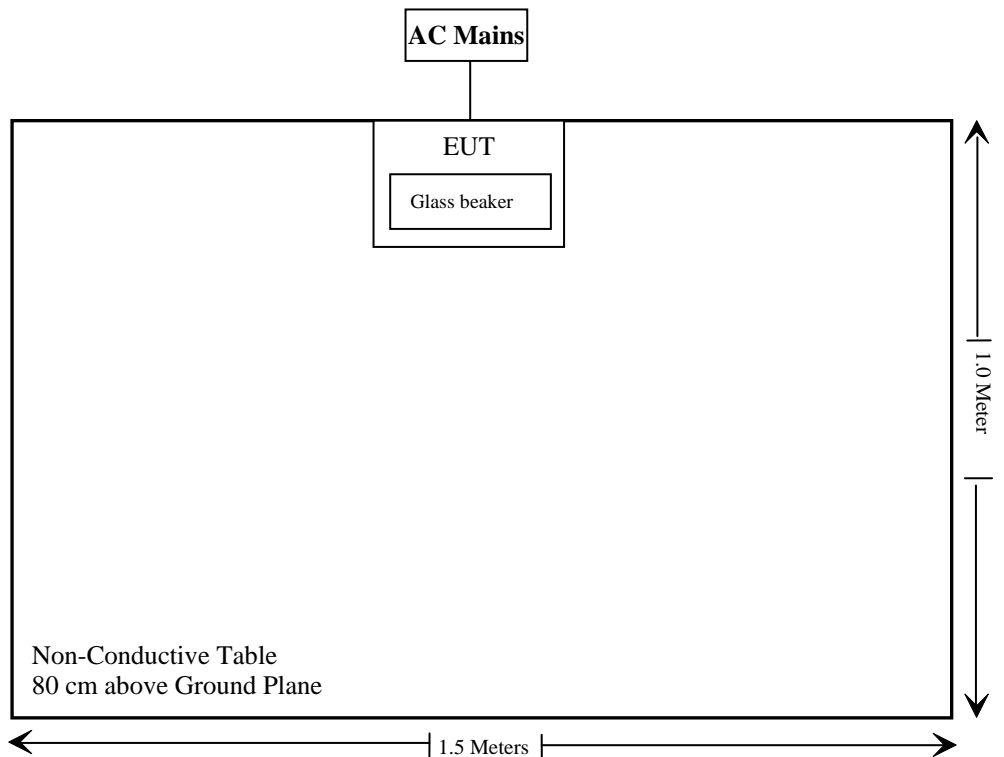


Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
FCC §18.313, §1.1310, §2.1091	Maximum Permissible Exposure	Compliant
FCC §18.307	AC Line Conducted Emissions	Compliant
FCC/OST MP-5 FCC §18.301	Radiation Hazard Measurement	Compliant
FCC §18.305	Field Strength	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
R & S	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 191218 (V9)					
Radiated Emissions Test & Radiation Hazard Measurement					
Rohde & Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25
Wainwright	Band Reject Filter	WRCG2400/2485-2375/2510-60/11SS	10	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Radiated Emission Test Software:e3 191218 (V9)					
Qingzhi	Digital Power Meter	8716C	870307126	2022/11/23	2023/11/22
OHAUS	Electronic Scale	R2000-6	8339220237	2022/11/23	2023/11/22
MC	Thermometer	Unknown	Unknown	2022/10/31	2023/10/30
Maximum Permissible Exposure					
ETS	Microwave Survery Meter	1501	123654	2022/10/11	2023/10/10

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §18.313, §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

Measurement

Environmental Conditions

Temperature:	23 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2023-06-07.

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275 mL water load was placed in the center of the oven and the oven was operated at maximum output power.

There was no microwave leakage exceeding a power level of 0.1mW/cm² observed at any point 5 cm or more from the external surface of the oven.

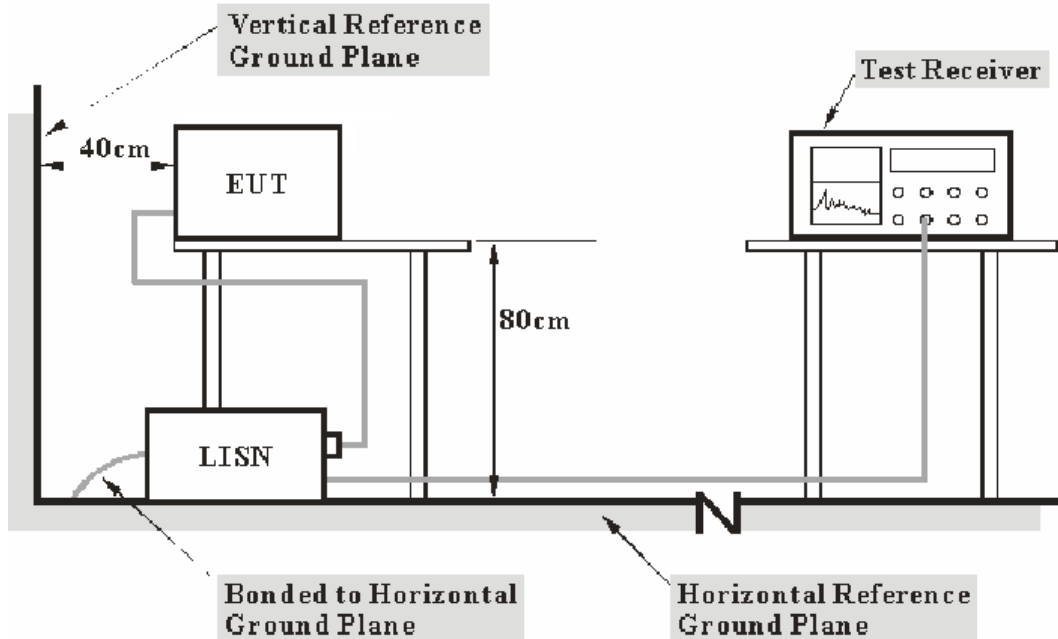
A maximum of 1.0 mW/cm² is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

CONDUCTED EMISSIONS

Applicable Standard

FCC §18.307

EUT Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

The socket was connected to 120 V AC / 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

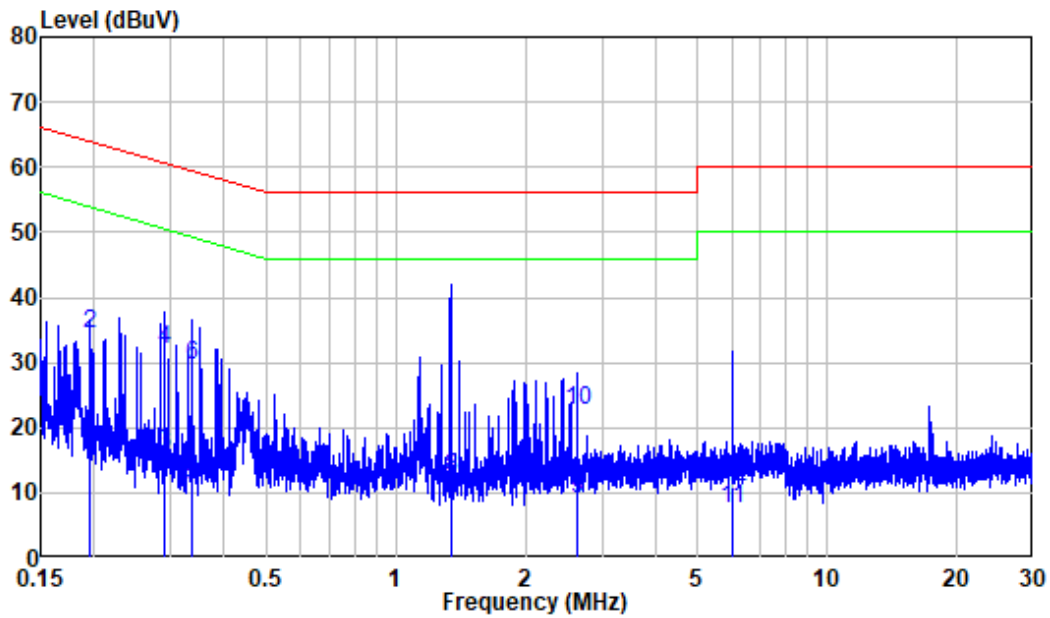
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Jerry Wu on 2023-06-07.

Test mode: Microwave

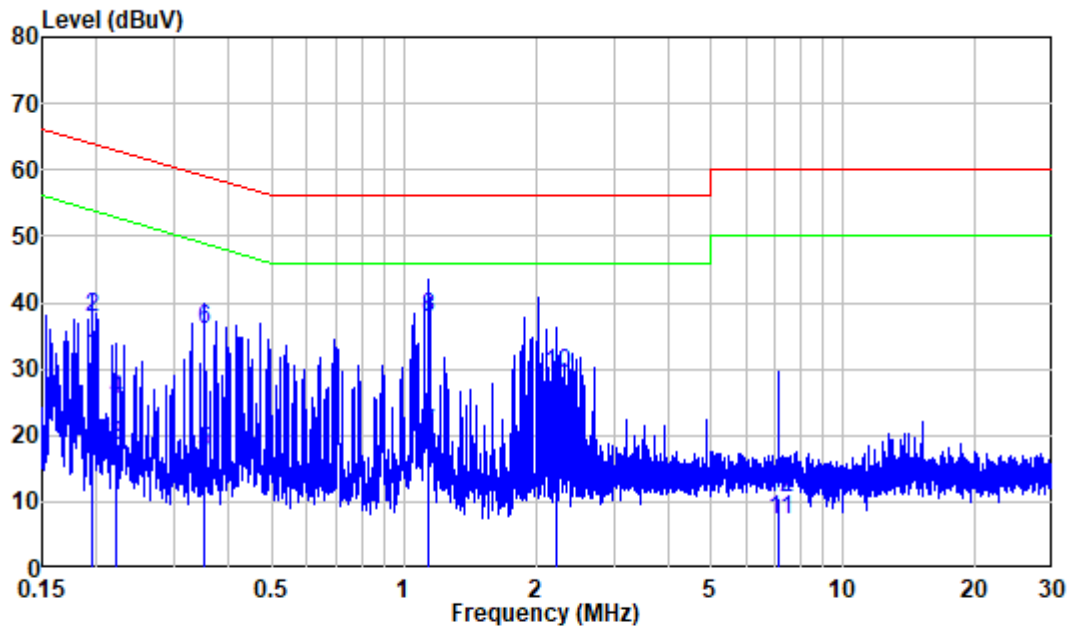
AC 120V/60 Hz, Line



Site : Shielding Room
 Condition: Line
 Job No. : RA230601-30977E-EM
 Mode : Microwave
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.196	10.30	7.95	18.25	53.79	-35.54	Average
2	0.196	10.30	24.10	34.40	63.79	-29.39	QP
3	0.290	10.39	5.62	16.01	50.52	-34.51	Average
4	0.290	10.39	21.49	31.88	60.52	-28.64	QP
5	0.335	10.43	0.87	11.30	49.32	-38.02	Average
6	0.335	10.43	19.09	29.52	59.32	-29.80	QP
7	1.338	10.43	-1.77	8.66	46.00	-37.34	Average
8	1.338	10.43	1.82	12.25	56.00	-43.75	QP
9	2.631	10.46	-1.42	9.04	46.00	-36.96	Average
10	2.631	10.46	12.24	22.70	56.00	-33.30	QP
11	6.016	10.58	-3.10	7.48	50.00	-42.52	Average
12	6.016	10.58	0.15	10.73	60.00	-49.27	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
 Condition: Neutral
 Job No. : RA230601-30977E-EM
 Mode : Microwave
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.195	10.29	21.72	32.01	53.84	-21.83	Average
2	0.195	10.29	27.59	37.88	63.84	-25.96	QP
3	0.220	10.30	8.09	18.39	52.80	-34.41	Average
4	0.220	10.30	14.92	25.22	62.80	-37.58	QP
5	0.350	10.39	6.98	17.37	48.95	-31.58	Average
6	0.350	10.39	25.62	36.01	58.95	-22.94	QP
7	1.135	10.38	9.78	20.16	46.00	-25.84	Average
8	1.135	10.38	27.42	37.80	56.00	-18.20	QP
9	2.231	10.50	2.32	12.82	46.00	-33.18	Average
10	2.231	10.50	18.81	29.31	56.00	-26.69	QP
11	7.152	10.53	-3.18	7.35	50.00	-42.65	Average
12	7.152	10.53	0.05	10.58	60.00	-49.42	QP

RADIATION HAZARD MEASUREMENT

Applicable Standard

FCC §18.301 & FCC/OST MP-5

Environmental Conditions

Temperature:	23 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2023-06-07.

Input Power

Input power and current was measured using a power analyzer. A 1000 mL water load was placed in the center of the oven and the oven was operated at maximum output power. A 1000mL water load was chosen for its compatibility with the procedure commonly used by manufacturers to determine their input ratings.

Input Voltage (V_{AC}/Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
110.1	11.3	1244.13	1400

Based on the measured input power, the EUT was found to be operating within the intended specifications.

Load for Household Microwave Ovens

For all measurements, the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000 watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000 watts. Additional beakers were used if necessary.

- Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.

RF Output Power Measurement

A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3 mm, an external diameter of approximately 190 mm and a height of approximately 90 mm. The mass of the container is determined.

At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of $1000 \text{ g} \pm 5 \text{ g}$ of water is added to the container and its actual mass obtained. The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position. The oven is operated and the time for the water temperature to attain is measured. The oven is then switched off and the final water temperature is measured within 60 s.

m_w (g)	m_c (g)	T_0 (°C)	T_1 (°C)	T_2 (°C)	t (s)
1000	377.0	22	10.1	17.9	40

$$\text{RF Output Power} = (4.187 \times 1000 \times (17.9 - 10.1) + 0.55 \times 377.0 \times (17.9 - 22)) / 40 = 795.212 \text{ Watts}$$

- P is the microwave power output, in watts;
 m_w is the mass of the water, in grams;
 m_c is the mass of the container, in grams;
 T_0 is the ambient temperature, in degrees Celsius;
 T_1 is the initial temperature of the water, in degrees Celsius;
 T_2 is the final temperature of the water, in degrees Celsius;
t is the heating time, in seconds, excluding the magnetron filament heating-up time.

The measurement output power was found to be less than 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of $25 \mu\text{V}/\text{meter}$ at a 300-meter measurement distance.

The measured output power was found to exceed 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared with the limit calculated as following:

$$\text{LFS} = 25 * \text{SQRT} (\text{Power Output}/500)$$

$$\text{LFS} = 25 * \text{SQRT} (795.212/500)$$

$$\text{LFS} = 31.53$$

Where: LFS is the maximum allowable field strength for out-of-band emissions in $\mu\text{V}/\text{meter}$ at a 300-meter measurement distance. Power Output is the measured output power in watts.

LFS $\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@3\text{m}$
31.53	29.97	69.97

Note: Limit ($\text{dB}\mu\text{V}/\text{m}@3\text{m}$) = Limit ($\text{dB}\mu\text{V}/\text{m}@300\text{m}$) + 40(dB)

Operating Frequency Measurement

Variation in Operating Frequency with Time

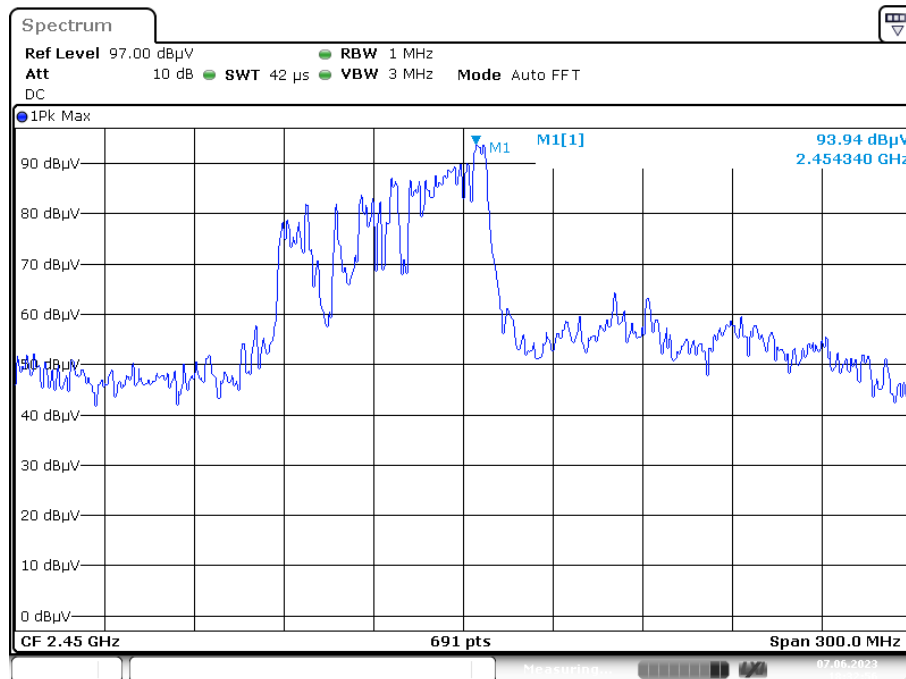
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

The results of this test are as follows:

Frequency at Start time (MHz)	Frequency at End time (MHz)
2454.34	2458.68

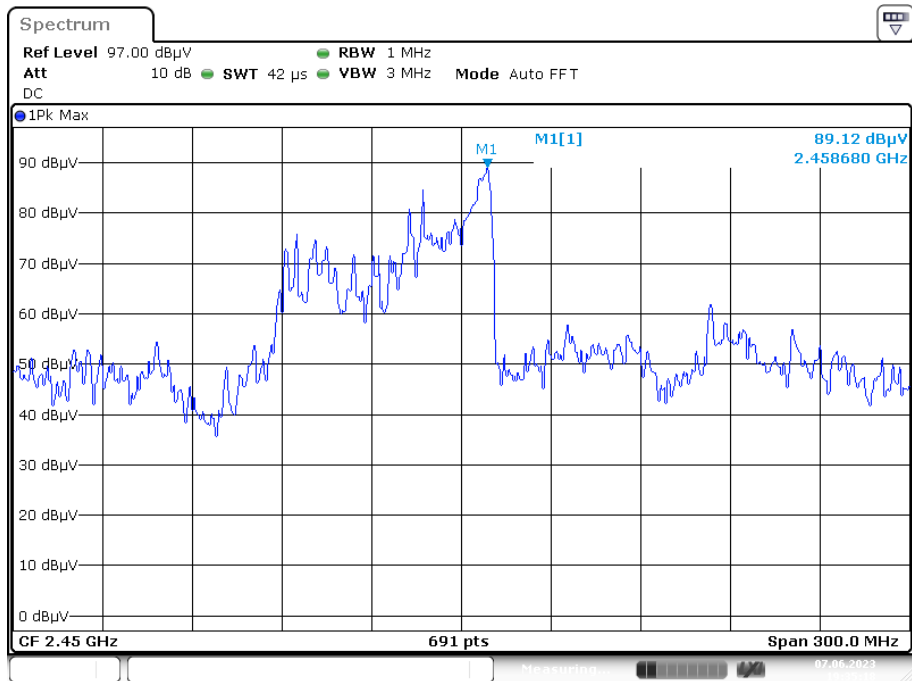
Refer to data pages for details of the variation in operating frequency with time measurement.

Start Time



Date: 7.JUN.2023 18:32:57

End Time



Date: 7.JUN.2023 19:35:19

Variation in Operating Frequency with Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

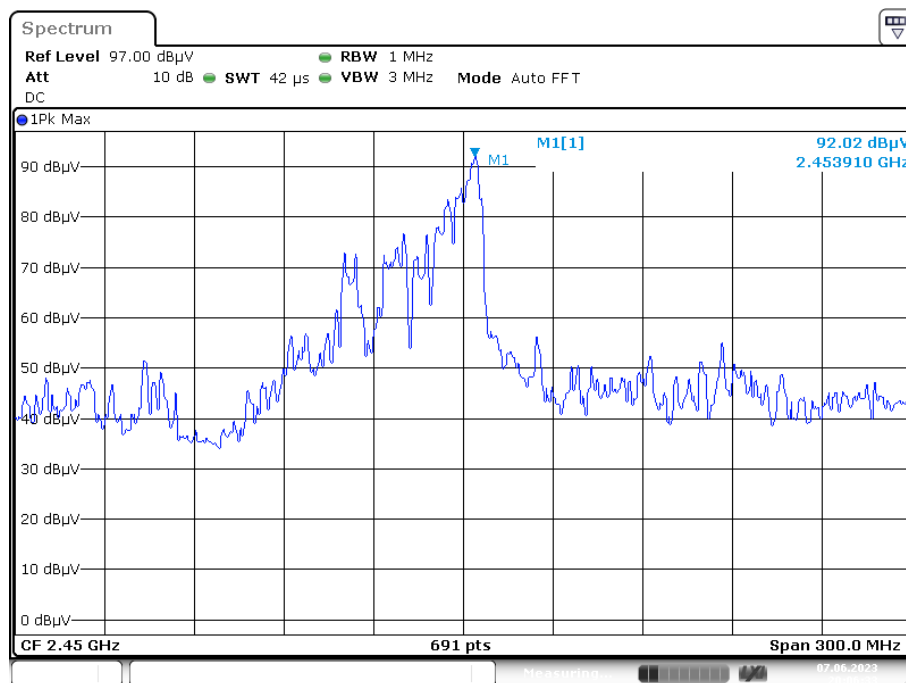
The results of this test are as follows:

Line voltage varied from 96 V_{AC} to 150 V_{AC}.

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2453.91	2459.55

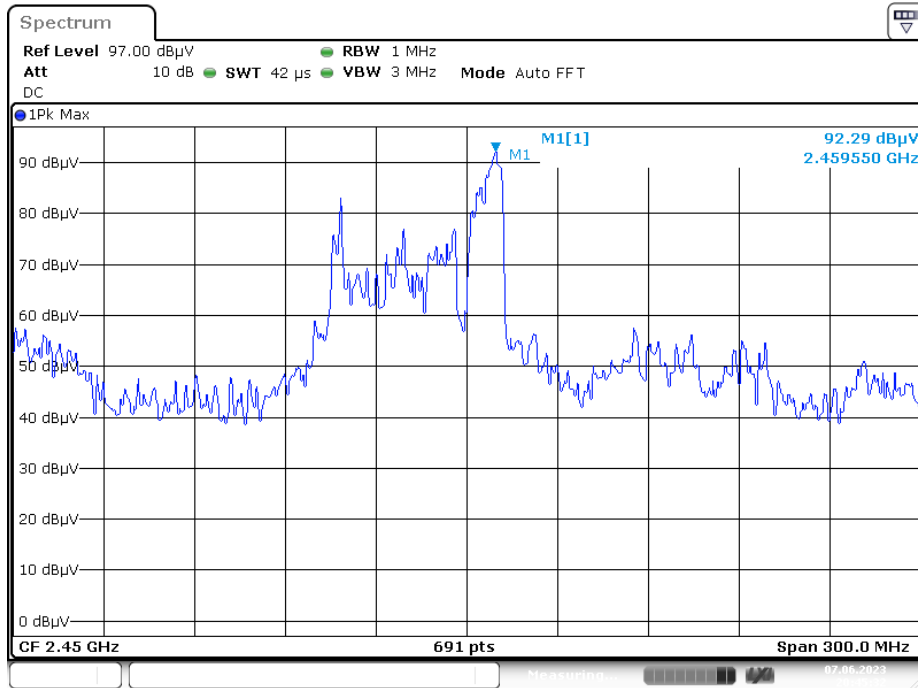
Please refer to following pages for details of the variation in operating frequency with line voltage measurement.

Low Voltage



Date: 7.JUN.2023 20:06:33

High Voltage



Date: 7. JUN. 2023 20:45:33

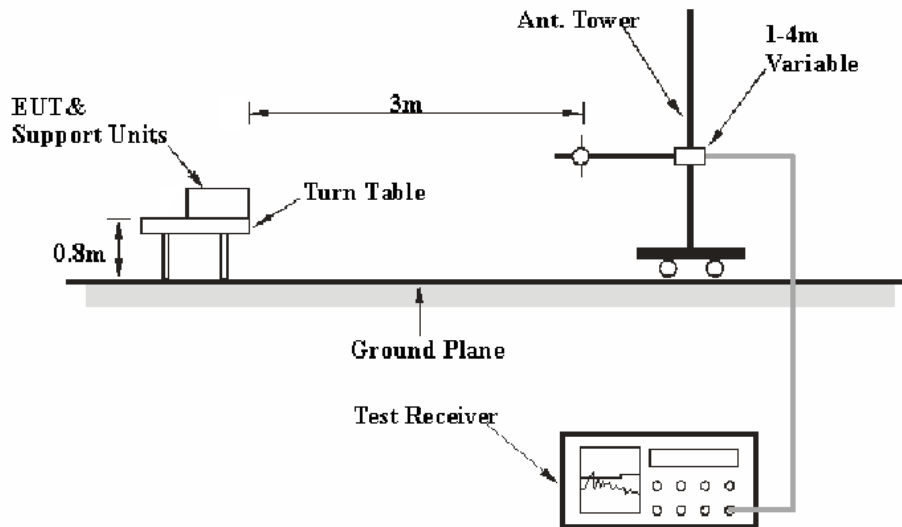
RADIATED EMISSIONS

Applicable Standard

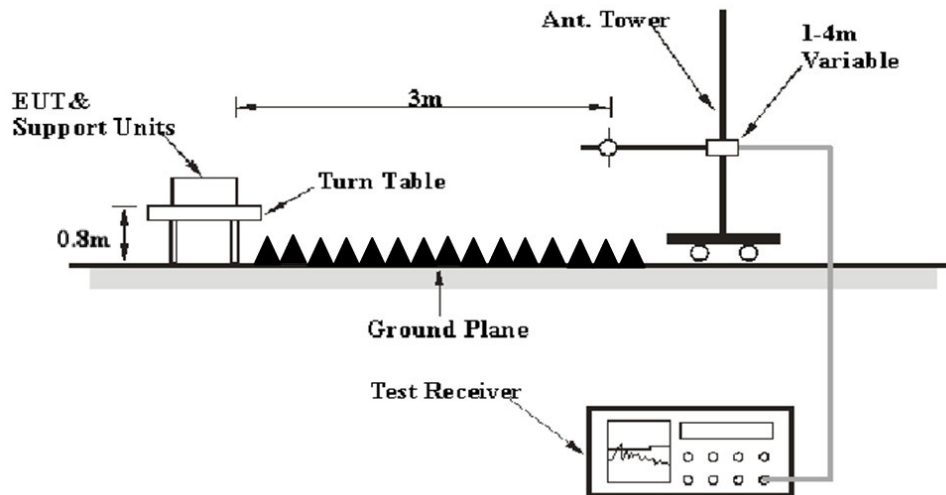
FCC §18.305 and FCC §18.309

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP-5. The specification used was the FCC part 18 limits.

The socket was connected to 120 V AC /60 Hz power source.

EMI Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK.
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data and Plots

Environmental Conditions

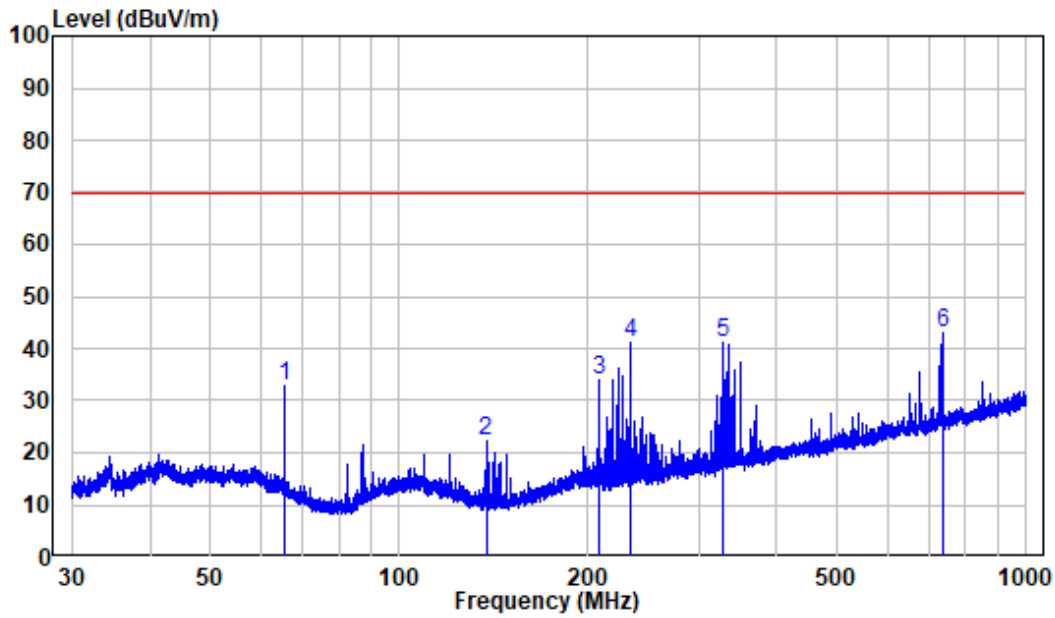
Temperature:	22-23 °C
Relative Humidity:	52-53 %
ATM Pressure:	101.0 kPa

*The Below 1GHz testing was performed by Jason Liu on 2023-06-07.
The Above 1GHz testing was performed by Jimi Zheng on 2023-06-07.*

Test mode: Microwave

30 MHz - 1 GHz

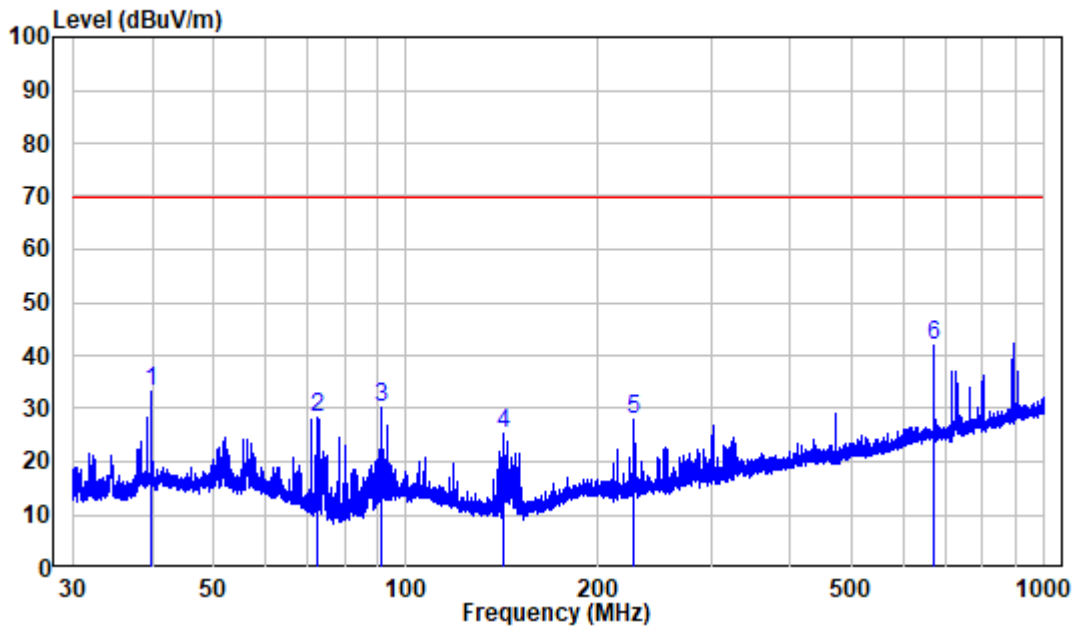
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : RA230601-30977E-EM
 Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	65.544	-12.78	45.69	32.91	69.97	-37.06	Peak
2	137.481	-15.29	37.52	22.23	69.97	-47.74	Peak
3	208.032	-12.03	45.89	33.86	69.97	-36.11	Peak
4	233.758	-11.03	52.11	41.08	69.97	-28.89	Peak
5	328.031	-8.16	49.48	41.32	69.97	-28.65	Peak
6	735.136	-0.57	43.51	42.94	69.97	-27.03	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : RA230601-30977E-EM
 Test Mode: Microwave

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.784	-10.51	43.62	33.11	69.97	-36.86	Peak
2	72.783	-15.81	44.13	28.32	69.97	-41.65	Peak
3	91.175	-13.68	43.74	30.06	69.97	-39.91	Peak
4	141.702	-15.52	40.66	25.14	69.97	-44.83	Peak
5	226.993	-11.35	39.36	28.01	69.97	-41.96	Peak
6	672.845	-1.57	43.48	41.91	69.97	-28.06	Peak

1 GHz - 25 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
2332.000	38.53	AV	190	2.0	H	-10.59	27.94	69.97	-42.03
2332.000	49.96	AV	334	2.1	V	-10.59	39.37	69.97	-30.60
2533.000	48.27	AV	199	1.6	H	-10.56	37.71	69.97	-32.26
2533.000	52.28	AV	350	1.9	V	-10.56	41.72	69.97	-28.25
4387.000	39.87	AV	5	1.0	H	-7.34	32.53	69.97	-37.44
4387.000	46.37	AV	347	1.4	V	-7.34	39.03	69.97	-30.94
700ml Water									
4907.500	42.22	AV	284	2.2	H	-5.76	36.46	69.97	-33.51
4907.500	46.27	AV	215	1.8	V	-5.76	40.51	69.97	-29.46
8939.500	30.14	AV	348	1.5	H	3.26	33.40	69.97	-36.57
8939.500	31.50	AV	213	1.6	V	3.26	34.76	69.97	-35.21
300ml Water									
4907.500	43.8	AV	283	1.9	H	-5.76	38.04	69.97	-31.93
4907.500	47.22	AV	334	2.1	V	-5.76	41.46	69.97	-28.51
8939.500	32.10	AV	135	1.5	H	3.26	35.36	69.97	-34.61
8939.500	32.46	AV	306	2.2	V	3.26	35.72	69.97	-34.25

Note:

Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Corrected Amplitude = Factor + Reading

Margin = Corrected Amplitude - Limit

******* END OF REPORT *******