



RF TEST REPORT

Product Name: Automatic Drip Coffee Brewer

Model Name: Venus- I

FCC ID: 2BO5E-VENUS

Issued For : Luckin Food Technology (Shanghai) Co LTD
Room 1001, 10th Floor, Building 1, No. 1728-1746, West Nanjing
Road, Jing 'an District, Shanghai

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25K278RF01

Sample Received Date: Nov. 24, 2025

Date of Test: Nov. 24, 2025 ~ Dec. 08, 2025

Date of Issue: Dec. 08, 2025

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TEST REPORT CERTIFICATION

Applicant: Luckin Food Technology (Shanghai) Co LTD
Address: Room 1001, 10th Floor, Building 1, No. 1728-1746, West Nanjing Road, Jing 'an District, Shanghai
Manufacturer: Luckin Food Technology (Shanghai) Co LTD
Address: Room 1001, 10th Floor, Building 1, No. 1728-1746, West Nanjing Road, Jing 'an District, Shanghai
Product Name: Automatic Drip Coffee Brewer
Trademark: N/A
Model Name: Venus- I
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS

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Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Dec. 08, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

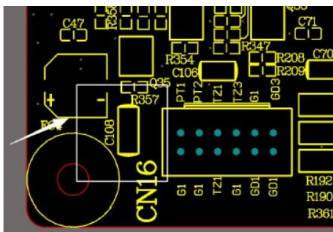
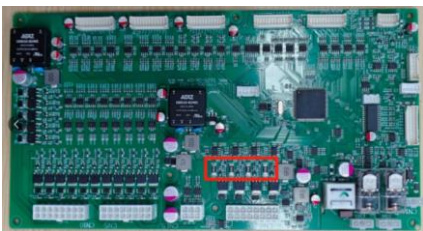
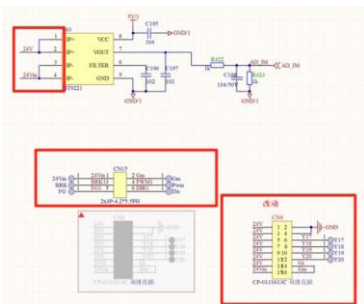
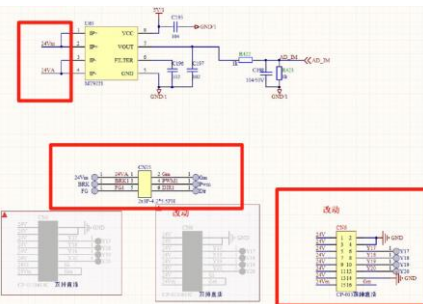
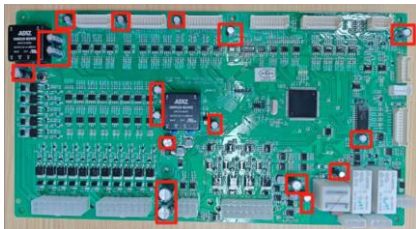
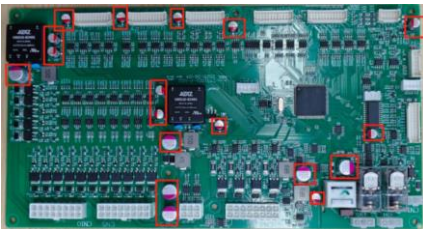
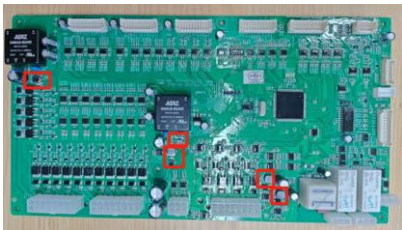
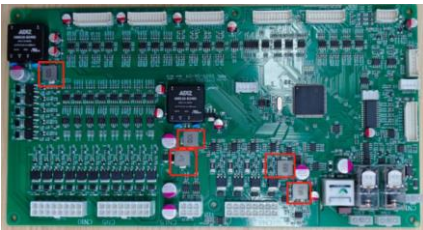
FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	N/A	--
15.247 (b)(3)	Output Power	N/A	--
15.209	Radiated Spurious Emission	PASS	Below 1GHz
15.247 (d)	Conducted Spurious & Band Edge Emission	N/A	--
15.247 (e)	Power Spectral Density	N/A	--
15.205	Restricted Band Edge Emission	N/A	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	N/A	--
15.203	Antenna Requirement	N/A	--

NOTE:

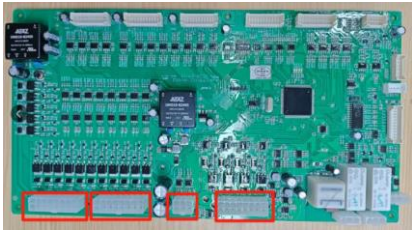
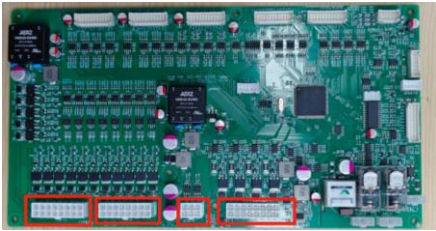
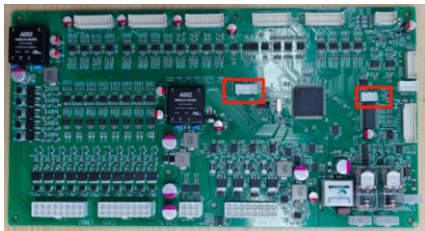
- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (3) Base on the original report number LGT25D152RF01, for add new appearance, have the same PCB board and block diagram and operating principle as the certified prototype, except for only change the Main control board (functional) and Hall board (functional), from a technical point of view, it still meets the requirements of the standard except for Radiated Spurious Emission below 1GHz and Conducted Emission, and issued the revised report.



Detail of changes as below:
Main control board (functional)

Original	New	Differences
/		For the water level probe detection problem, remove the C108 patch capacitor. Troubleshooting water shortage problems.
		R451, R427, R435, R465 chip resistance change. Improve the accuracy of AD detection.
		Modify 24V power supply and ground loop. Mainly used to detect whether the brushless motor is blocked; and form a hardware linkage with the Hall board.
		All electrolytic capacitors are replaced by solid electrolytic capacitors. Reduce the equivalent series resistance and improve the service life.
		L2, L3, L4, L8, L9 to shield inductance Improve EMC, increase the heat dissipation effect, increase the current flow capacity.



		RLL1,RLL2 Relay Change Manufacturer Changed from Sanyou to Omron Improve the working performance of the relay.
		CN6,CN15,CN5,CN10 sockets are replaced by 5566 specifications for 5569 specifications. The 5569 socket is more solid, and the cable is not easy to loosen.
		J2,DGB1 Burn Pin Changed from Pin to Socket. It is convenient for software engineers to debug programs.



Hall board (functional)

Original	New	Differences
SDX1, SDX2, SDX3, HALL1, HALL2三开关硬件联动继电器 豆箱磁控开关1、2、3 冲炮头前盖开关 下豆槽开关 中间抽针 全0出1, 用或非门	SDX1, SDX2, SDX3, HALL1, HALL2三开关硬件联动继电器 豆箱磁控开关1、2、3 冲炮头前盖开关 下豆槽开关 中间抽针 全0出1, 用或非门	Added U9 and U13 protection circuits to meet the requirements of safety regulations
SW2, SW1两开关硬件联动推油电机继电器 油桶开关 操作面板 推油电机	SW2, SW1两开关硬件联动推油电机继电器 油桶开关 操作面板 推油电机	Add U8 protection circuit to meet the requirements of safety regulations
步进电机继电器开关控制	步进电机继电器开关控制	Added protection circuits U10, U11 and U12 to meet safety requirements
		All electrolytic capacitors are replaced by solid electrolytic capacitors. Reduce the equivalent series resistance and improve the service life
		RELAY1 Relay Change Manufacturer Changed from Sanyou to Omron Improve the working performance of the relay
		RL1, 3, 4, 5, 6, 7, 8 relay change model from HF115-024-2HS4A to HF115-024-2HS4
		CN10H; HPM; HPM1; HPM2; HPM3 socket is changed from 5566 specification to 5569 specification. The 5569 socket is more solid, and the cable is not easy to loosen.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{ dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$
11	Duty Cycle	$\pm 2.3\%$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Automatic Drip Coffee Brewer	
Trademark:	N/A	
Model Name:	Venus- I	
Series Model:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Number of Channel:	802.11b/g/n: 11CH
	Antenna Designation:	PCB
	Antenna Gain(dBi):	3.5
Channel List:	Please refer to the Note 3.	
Rated Input:	Input: AC 208V/60Hz 32A	
Hardware Version:	PCB1-XA080XHW01W_XB-A01	
Software Version:	rk3568_r v0.31 8inch hd big xb multieth coexist Chrome AppManager 251xcan qsb double ntp EC200A 2511	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Operation Frequency of channel	
802.11b/g/n(20MHz)	
Channel	Frequency
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 10: Keeping TX + WLAN Link

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 2.4G WIFI	
CMD Command	Mode Or Modulation type	Power setting
	b	8
	g	5
	n20	5



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
DC Power supply	Keysight	E3634A	MY58036468	N/A
Laptop	Lenovo	T470s	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E225010004 9	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-N MNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2024.10.21	2027.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-N MNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B- NMSM-1M 9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-0 5000KMSK MS	N.A	2025.03.08	2026.03.07
Antenna Tower	SAEMC	BK-4AT-BS -D	SK20210930 08	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16
Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100 -RFCB	MW220324L G-33	2025.03.06	2026.03.05
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05



Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC8305 3	2025.03.05	2026.03.04
DC source	Jiuyuan	QJ6010E	N.A	2025.03.09	2026.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

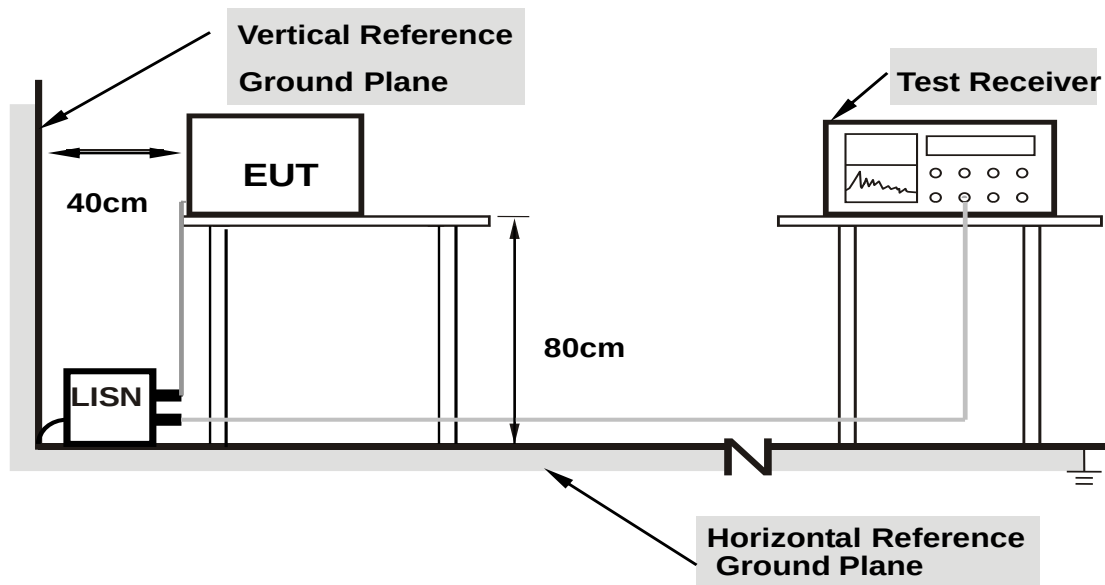
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



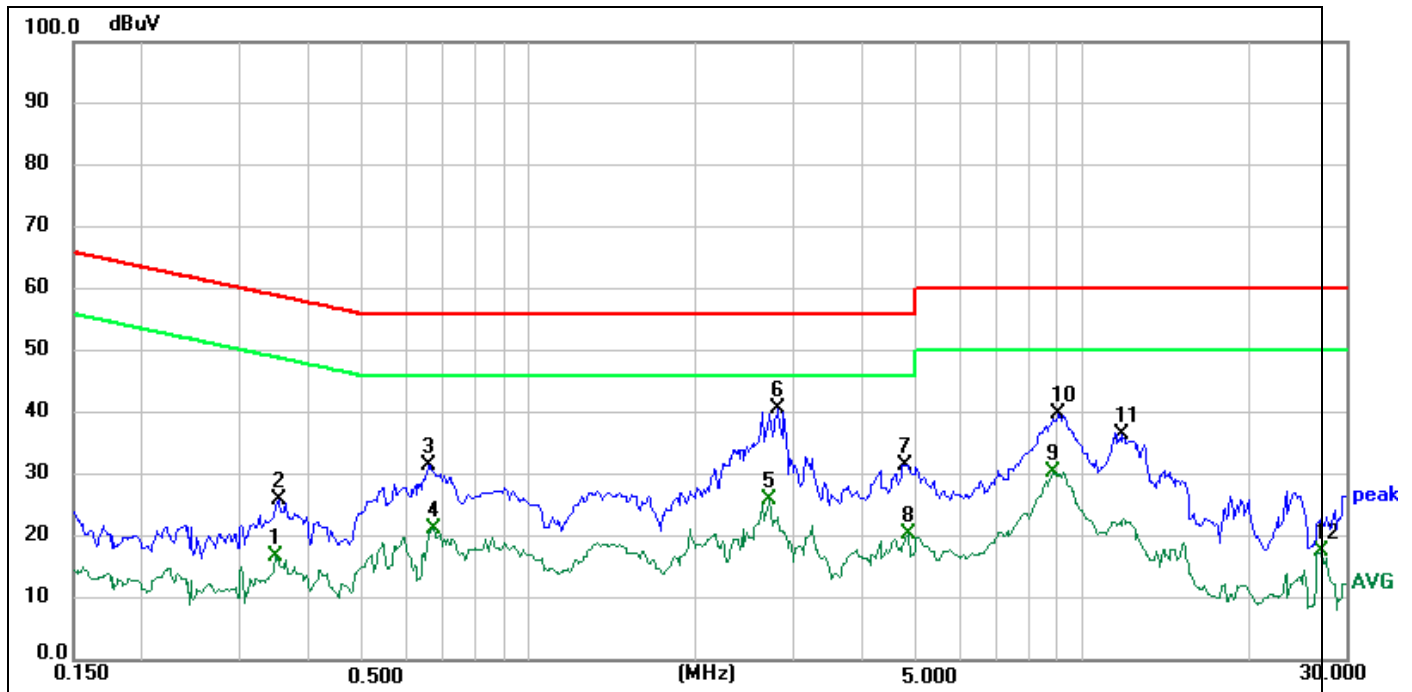
- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

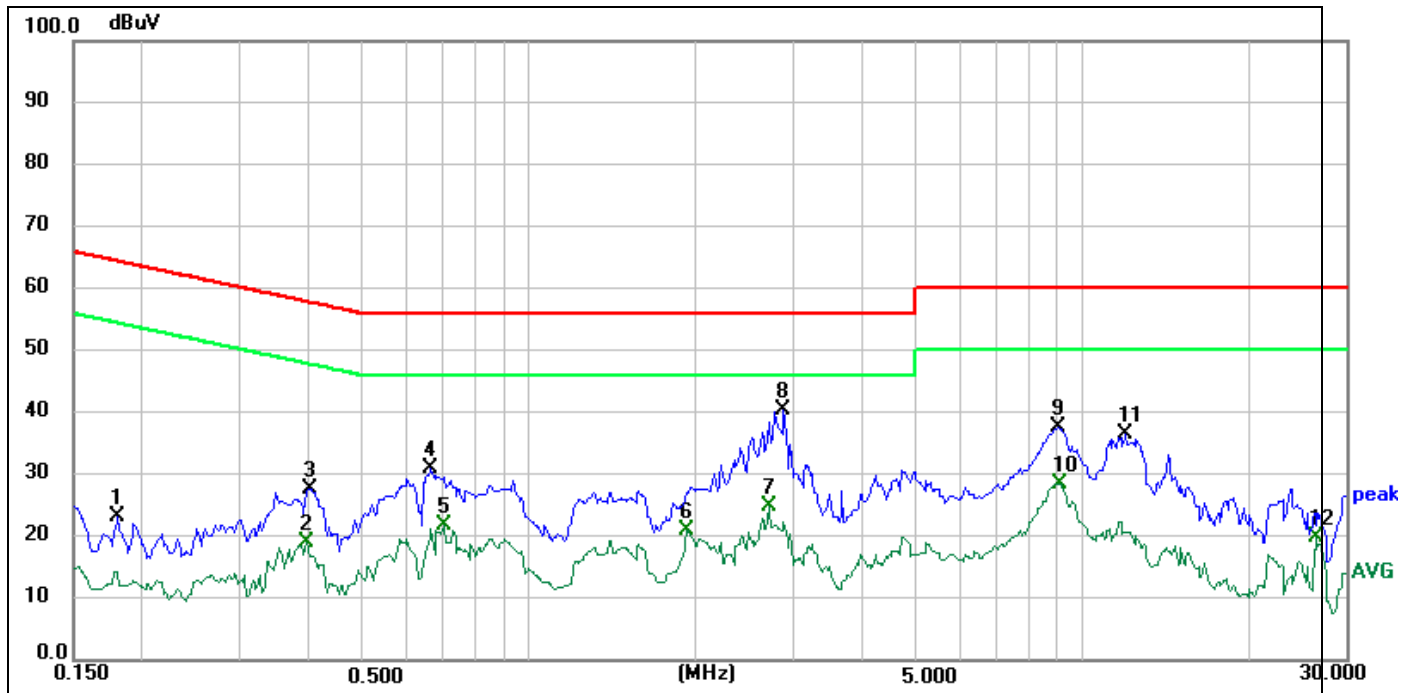


3.1.5 TEST RESULT



Site: LAB	Phase: L1	Temperature(°C):26.1 °C
Limit: FCC Part 15C CE-Class B_QP	Atm Pressure:983 mbar	Humidity(%): 54%RH
EUT: Automatic Drip Coffee Brewer	Test Time:	2025/11/24 15:03:19
M/N.: Venus- I	Power Rating:	AC 208V/60Hz
Mode: TX 802.11b 2412	Test Engineer:	
Note:		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.349	6.56	10.35	16.91	48.99	-32.08	AV
2	0.353	15.67	10.35	26.02	58.89	-32.87	QP
3	0.661	21.28	10.35	31.63	56.00	-24.37	QP
4	0.672	10.79	10.35	21.14	46.00	-24.86	AV
5	2.721	15.44	10.56	26.00	46.00	-20.00	AV
6	2.824	30.26	10.56	40.82	56.00	-15.18	QP
7	4.782	20.95	10.59	31.54	56.00	-24.46	QP
8	4.856	9.83	10.59	20.42	46.00	-25.58	AV
9	8.850	19.72	10.64	30.36	50.00	-19.64	AV
10	9.080	29.18	10.64	39.82	60.00	-20.18	QP
11	11.865	25.79	10.66	36.45	60.00	-23.55	QP
12	27.125	6.77	10.90	17.67	50.00	-32.33	AV



Site:	LAB	Phase:	L2	Temperature(°C):	26.1 °C
Limit:	FCC Part 15C CE-Class B_QP	Atm Pressure:	983 mbar	Humidity(%):	54%RH
EUT:	Automatic Drip Coffee Brewer	Test Time:	2025/11/24 15:10:33		
M/N.:	Venus- I	Power Rating:			AC 208V/60Hz
Mode:	TX 802.11b 2412	Test Engineer:			
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.181	12.82	10.44	23.26	64.44	-41.18	QP
2	0.396	8.52	10.45	18.97	47.94	-28.97	AV
3	0.404	17.25	10.45	27.70	57.77	-30.07	QP
4	0.665	20.59	10.45	31.04	56.00	-24.96	QP
5	0.704	11.24	10.45	21.69	46.00	-24.31	AV
6	1.936	10.32	10.64	20.96	46.00	-25.04	AV
7	2.712	14.08	10.66	24.74	46.00	-21.26	AV
8	2.892	29.76	10.66	40.42	56.00	-15.58	QP
9	9.096	26.99	10.74	37.73	60.00	-22.27	QP
10	9.139	17.85	10.74	28.59	50.00	-21.41	AV
11	12.017	25.78	10.68	36.46	60.00	-23.54	QP
12	26.556	9.05	10.82	19.87	50.00	-30.13	AV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

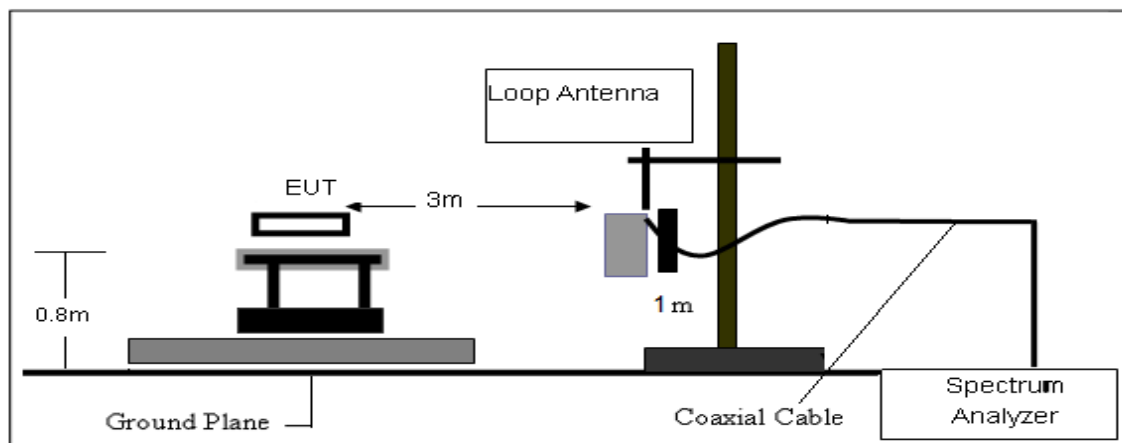
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

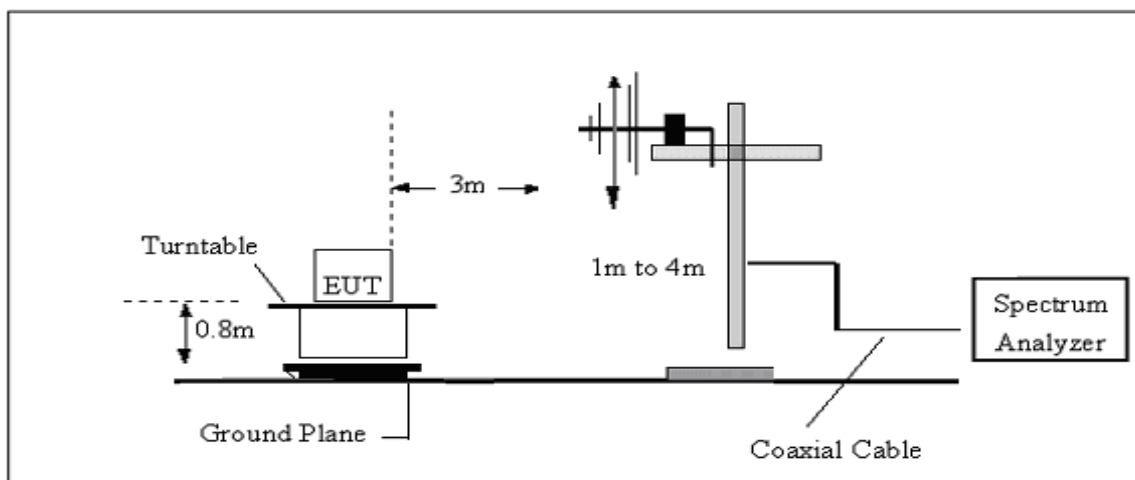
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

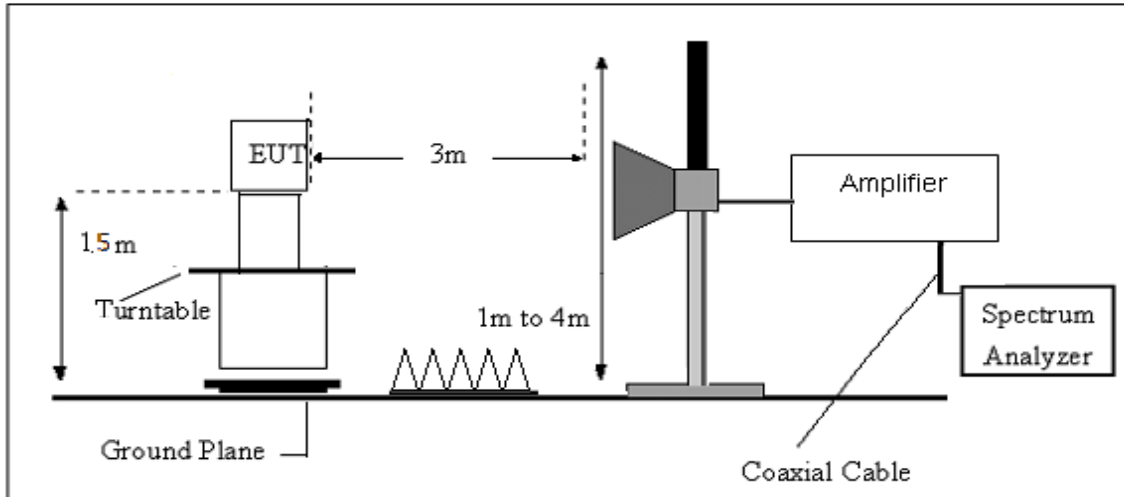
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$



3.2.6 TEST RESULT

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

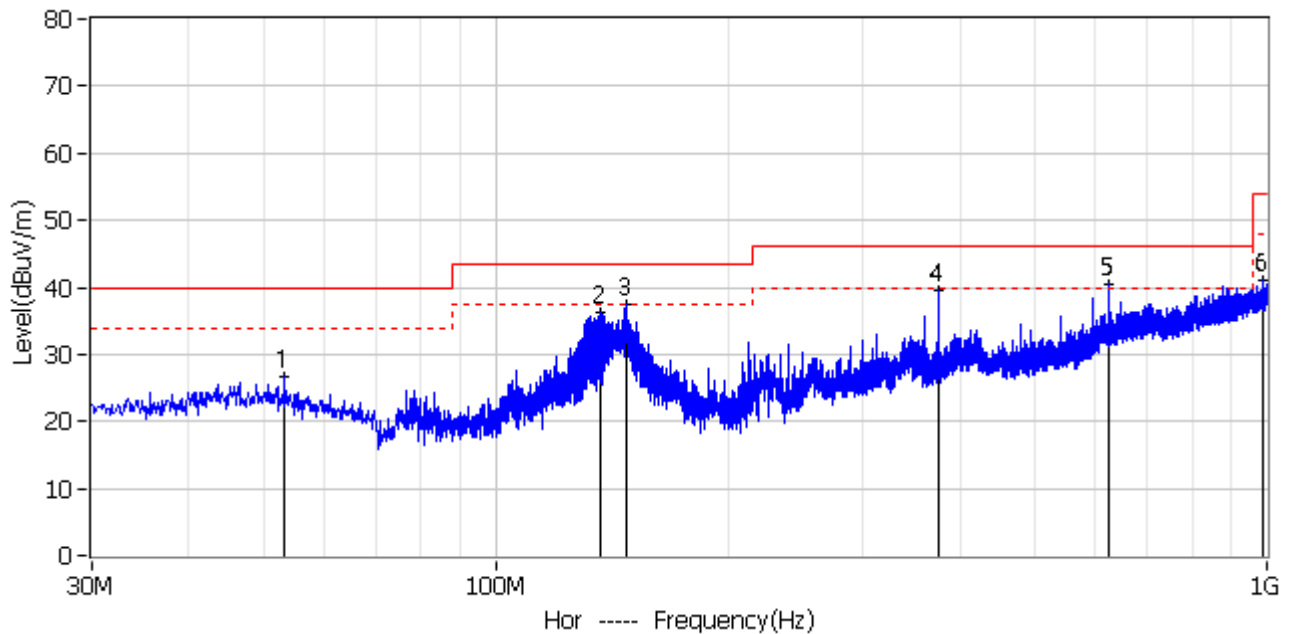
Limit line = specific limits (dBuV) + distance extrapolation factor.



Results of Radiated Emissions (30MHz~1000MHz)

Note:1. All mode has been tested, only shown the worst case data.

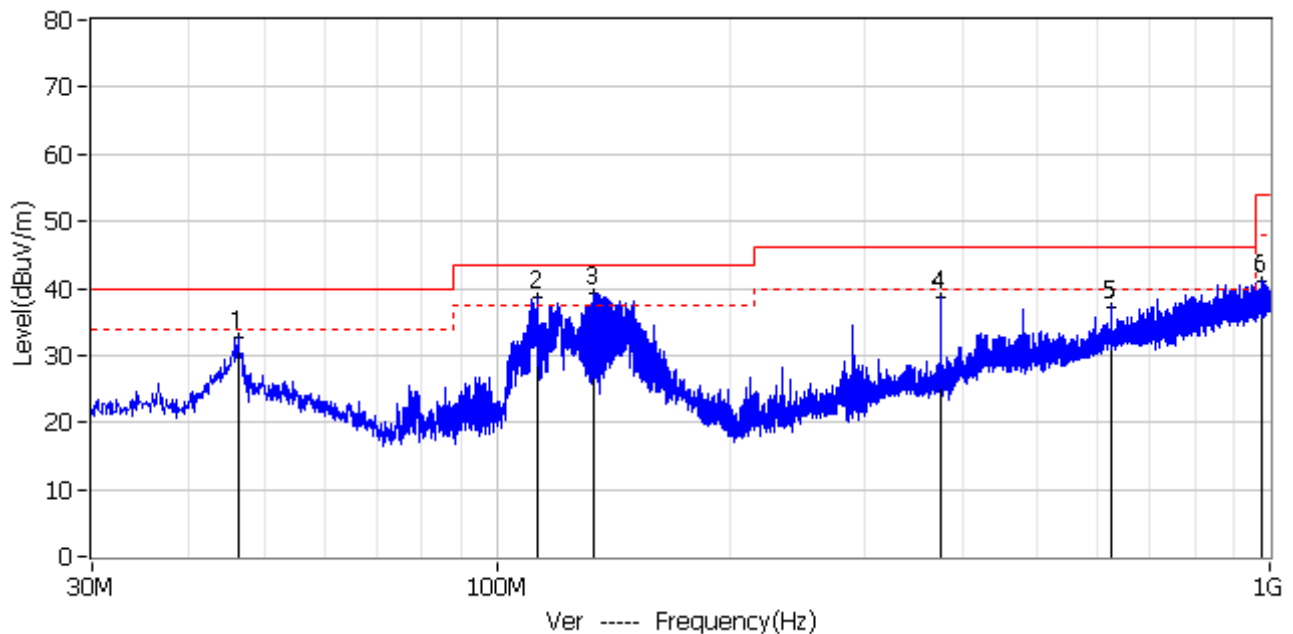
Project: LGT25K278	Test Engineer: LiuH
EUT: Automatic Drip Coffee Brewer	Temperature: 24.4℃
M/N: Venus- I	Humidity: 41%RH
Test Voltage: AC 208V/60Hz	Test Data: 2025-11-24
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	53.280	5.81	20.86	26.67	40.00	-13.33	QP	Hor
2*	137.064	15.27	20.91	36.18	43.50	-7.32	QP	Hor
3*	147.613	15.52	21.90	37.42	43.50	-6.08	QP	Hor
4*	374.956	15.20	24.49	39.69	46.00	-6.31	QP	Hor
5*	624.974	10.52	30.00	40.52	46.00	-5.48	QP	Hor
6*	990.179	5.91	35.03	40.94	54.00	-13.06	QP	Hor



Project: LGT25K278	Test Engineer: LiuH
EUT: Automatic Drip Coffee Brewer	Temperature: 24.4℃
M/N: Venus- I	Humidity: 41%RH
Test Voltage: AC 208V/60Hz	Test Data: 2025-11-24
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	46.369	11.95	20.71	32.66	40.00	-7.34	QP	Ver
2*	113.056	19.70	18.87	38.57	43.50	-4.93	QP	Ver
3*	133.548	18.17	20.94	39.11	43.50	-4.39	QP	Ver
4*	374.956	14.17	24.49	38.66	46.00	-7.34	QP	Ver
5*	624.974	7.08	30.00	37.08	46.00	-8.92	QP	Ver
6*	977.811	6.09	35.05	41.14	54.00	-12.86	QP	Ver



APPENDIX I - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC.

※※※※※END OF THE REPORT※※※※※