

FCC Test Report

Report No.: AGC14499241106FR02

FCC ID : 2APPZ-I68
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Face Recognition Door Phone
BRAND NAME : 
MODEL NAME : i68, i68L
APPLICANT : Fanvil Technology Co., LTD.
DATE OF ISSUE : Dec. 31, 2024
STANDARD(S) : FCC Part 15 Subpart C §15.225
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 31, 2024	Valid	Initial Release

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1. General Information

Applicant	Fanvil Technology Co., LTD.
Address	10/F Block A, Dualshine Global Science Innovation, Honglang North 2nd Road, Bao'an District, Shenzhen, 518101, China
Manufacturer	Fanvil Technology Co., LTD.
Address	10/F Block A, Dualshine Global Science Innovation, Honglang North 2nd Road, Bao'an District, Shenzhen, 518101, China
Factory	N/A
Address	N/A
Product Designation	Face Recognition Door Phone
Brand Name	Fanvil
Test Model	i68
Series Model(s)	i68L
Difference Description	The appearance, function, and model names of the product are different
Date of receipt of test item	Nov. 22, 2024
Date of Test	Nov. 22, 2024~Dec. 30, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-NFC-V1

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

Prepared By

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(Project Engineer)

Dec. 31, 2024

Reviewed By

Calvin Liu
(Reviewer)

Dec. 31, 2024

Approved By

Angela Li
(Authorized Officer)

Dec. 31, 2024

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2. Product Information

2.1 Product Technical Description

Equipment Category	Near Field Communication (NFC)
Operation Frequency	13.56MHz
Hardware Version	T2.12.48.11.3
Software Version	V1.0
Modulation Type	ASK
Field Strength of Fundamental	70.14dB μ V/m (Peak)
Antenna Designation	PCB Antenna
Antenna Gain	1.0dBi
Power Supply	DC 12V 2A/ POE 802.3at Class 4

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency
13.110~14.010 MHz	01	13.56 MHz

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2APPZ-I68**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 1.0dBi.

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 12V	LV:DC10.8V/HV:DC13.2V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 Measurement Uncertainty

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

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1$ dB
Uncertainty of Radiated Emission below 150kHz	$U_c = \pm 4.2$ dB
Uncertainty of Radiated Emission below 30MHz	$U_c = \pm 3.9$ dB
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.9$ dB
Uncertainty of total RF power, conducted	$U_c = \pm 0.8$ dB
Uncertainty of RF power density, conducted	$U_c = \pm 2.6$ dB
Uncertainty of spurious emissions, conducted	$U_c = \pm 2$ %
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2.7$ %

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23
<input checked="" type="checkbox"/>	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
<input checked="" type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71

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4. System Test Configuration

4.1 EUT Configuration

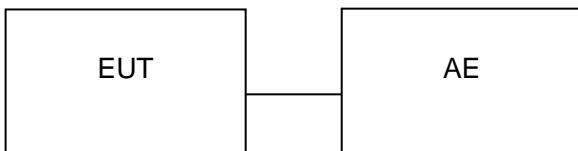
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

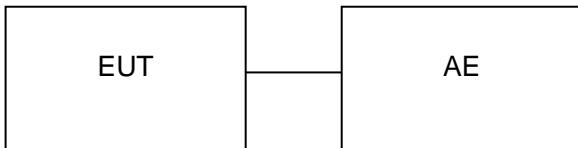
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

- Test Accessories Come From The Laboratory
 Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Notebook PC	Redmi	XMA2002-AB	--	1.2m, unshielded
2	Adapter	ANYA	AYD-1220	AC100-240V, 50-60Hz, DC 12V2A	2.2m, unshielded
3	POE Adapter	SHIAN	SA-POE4800300	--	--
4	Adapter	DONG GUAN CITY GANGQI ELECTRONIC CO., LTD	GQ24-120200-DU	Input: 100-240V~50/60Hz 1.0A Max Output: 12.0V=2.0A	--
5	TF Card	Sandi	SDSQUNC-032G-ZN 6MA	32G	--
6	U Disc	Kingston	DT100G3	32G	--
7	Router	Xiaomi	R4A	--	1.2m, unshielded

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8	LAN Cable	AOC	--	--	3.0m unshielded
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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203	Antenna Equipment	Pass
2	15.225(a)(b)(c)	Field Strength of Fundamental	Pass
3	§15.209	Radiated Spurious Emissions	Pass
4	§15.215(c)	20dB Bandwidth	Pass
5	§15.205(a)	Restricted Bands of Operation	Pass
6	§15.225(e)	Frequency Stability	Pass
7	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary table of Test Cases	
Test Item	Equipment category / Modulation
	Near Field Communication / ASK
Radiated & Conducted Test Cases	Mode 1: NFC TX _13.56 MHz (DC adapter/Powered by PoE)
AC Conducted Emission	Mode 2: NFC TX _13.56 MHz (DC adapter/Powered by PoE)

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.

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6. Field Strength of Fundamental

6.1 Provisions Applicable

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

6.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the

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pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

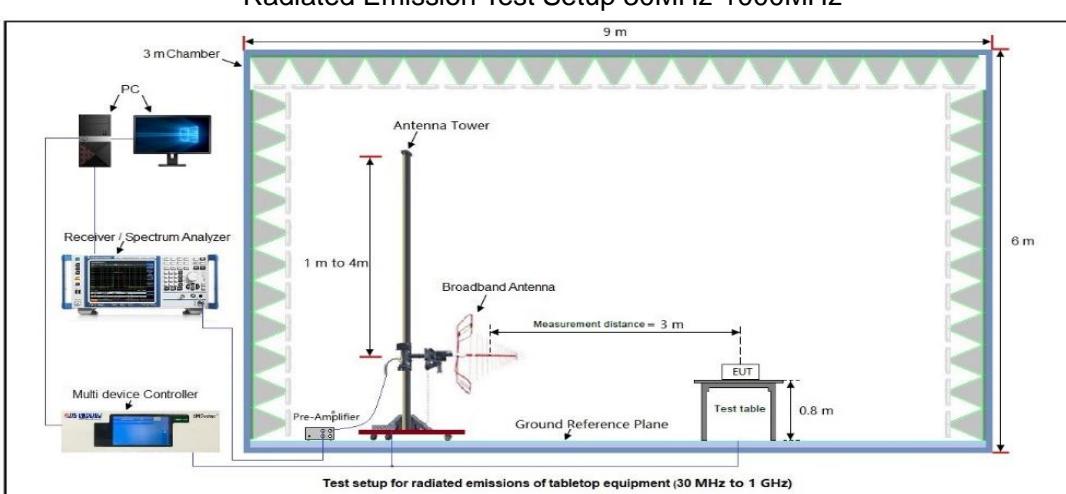
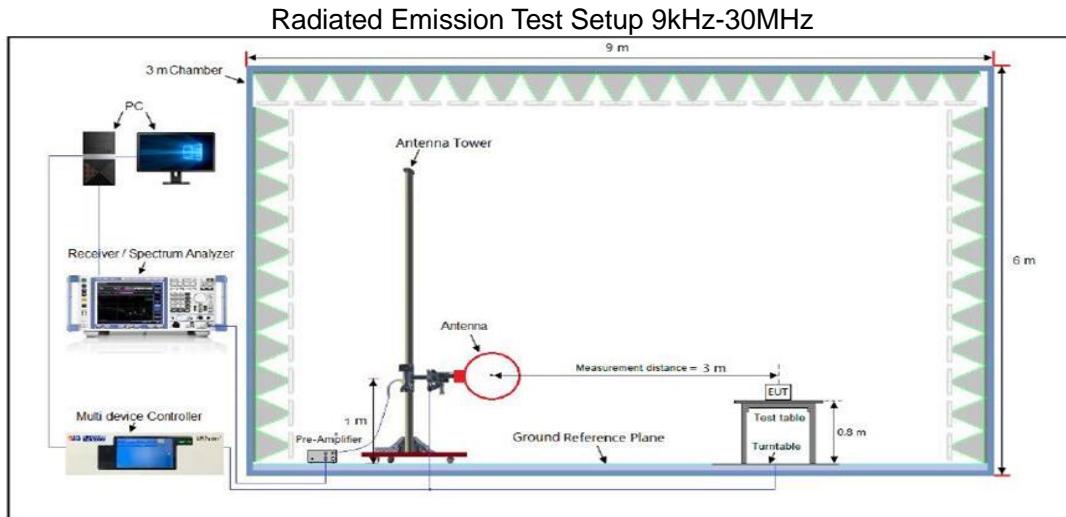
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6.3 Measurement Setup (Block Diagram of Configuration)



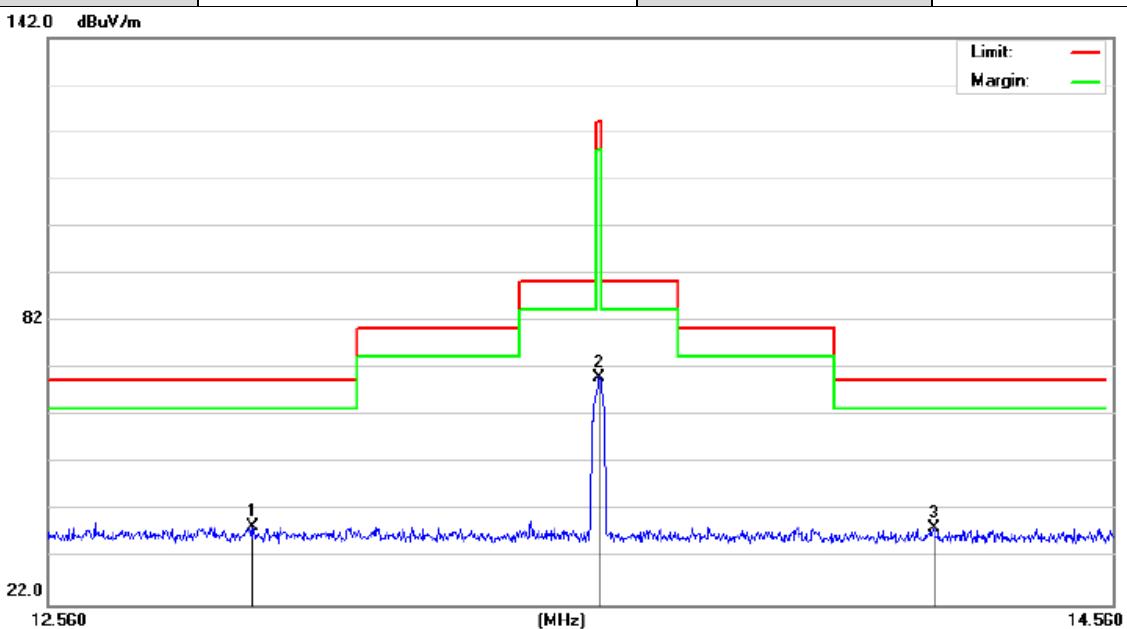
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6.4 Measurement Result

EUT Name	Face Recognition Door Phone			Model Name	i68		
Temperature	22.6°C			Relative Humidity	56.6%		
Pressure	960hPa			Test Voltage	DC 12V		
Test Mode	Mode 1			Antenna Polarity	Face		
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Detector
		MHz	dBuV	dB	dBuV/m	dB	
1	*	12.9239	8.63	29.89	38.52	69.50	-30.98 peak
2		13.5600	40.23	29.91	70.14	124.00	-53.86 peak
3		14.2040	8.39	29.93	38.32	69.50	-31.18 peak

RESULT: Pass

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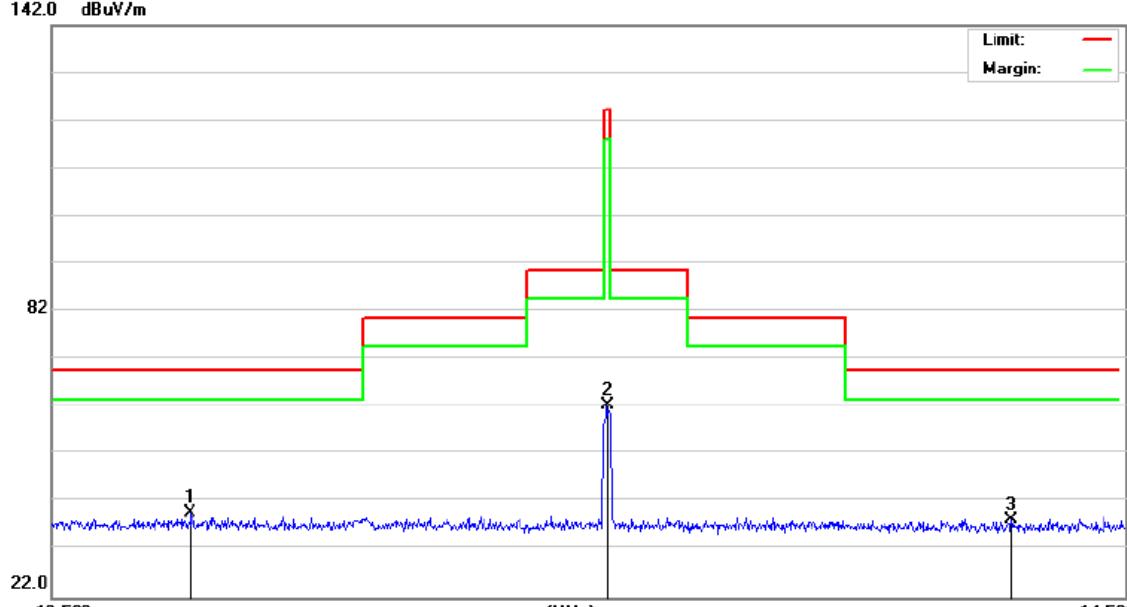
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EUT Name	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Side

142.0 dBuV/m



22.0 82 142.0

12.560 14.560

(MHz)

1 2 3

Limit: Red Line
Margin: Green Line

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dB	Detector
1	*	12.8019	9.96	29.88	39.84	69.50	-29.66 peak
2		13.5600	32.40	29.91	62.31	124.00	-61.69 peak
3		14.3339	8.41	29.93	38.34	69.50	-31.16 peak

RESULT: Pass

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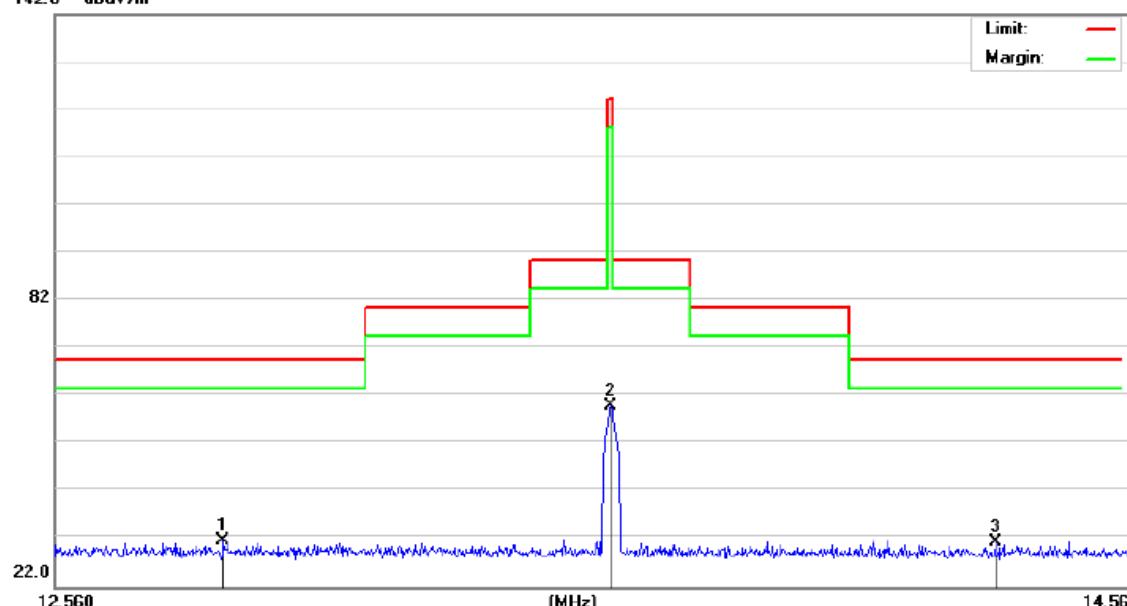
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EUT Name	Face Recognition Door Phone	Model Name	i68L
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Face

142.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	12.8559	1.78	29.89	31.67	69.50	-37.83	peak
2		13.5600	30.07	29.91	59.98	124.00	-64.02	peak
3		14.2960	1.63	29.93	31.56	69.50	-37.94	peak

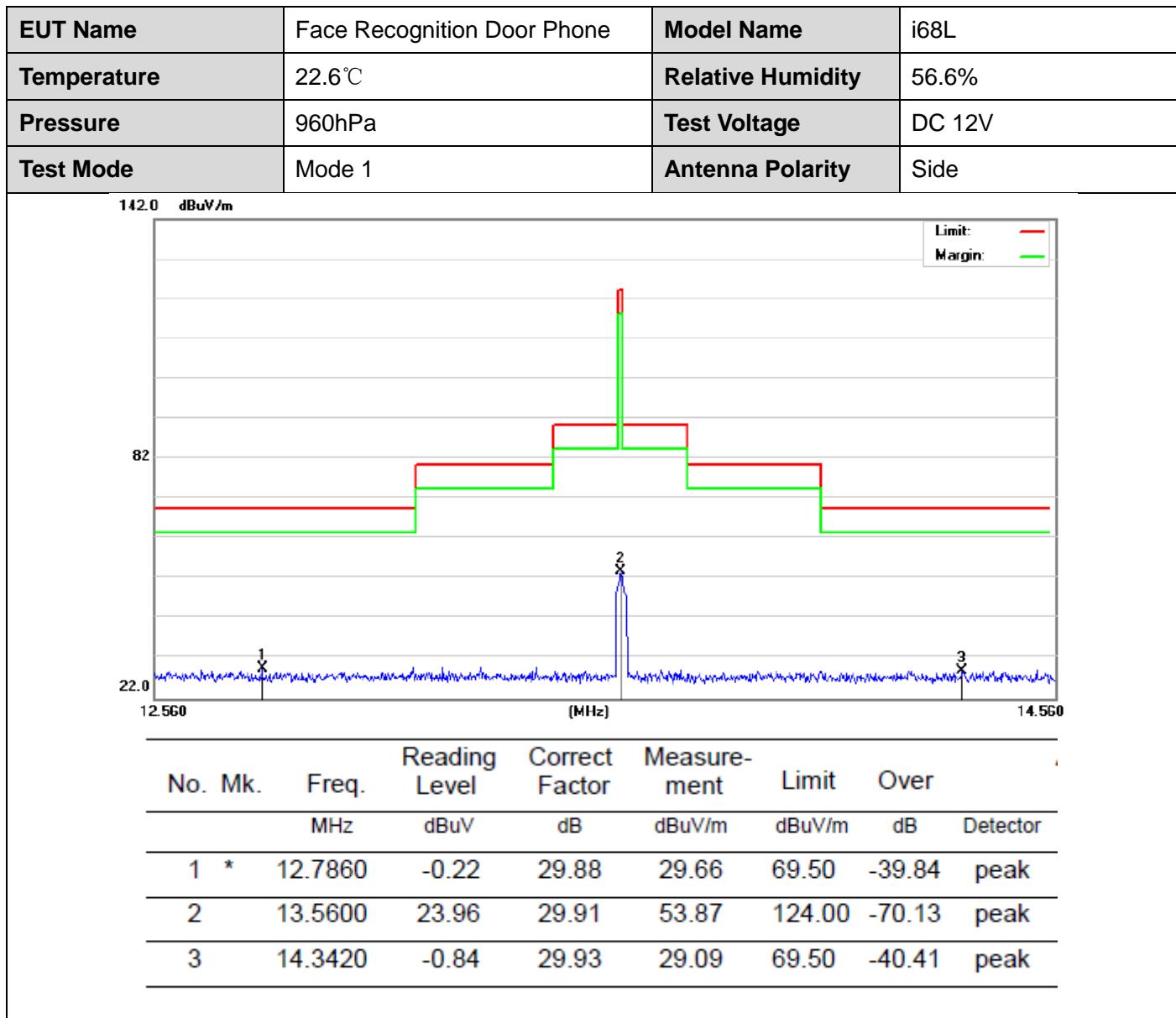
RESULT: Pass

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RESULT: Pass

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.

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7. Radiated Spurious Emissions

7.1 Provisions Applicable

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

15.209 Limit in the below table has to be followed:

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		µV/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark:

- (1) Emission level $dB\mu V = 20 \log \text{Emission level } \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

7.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement

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antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

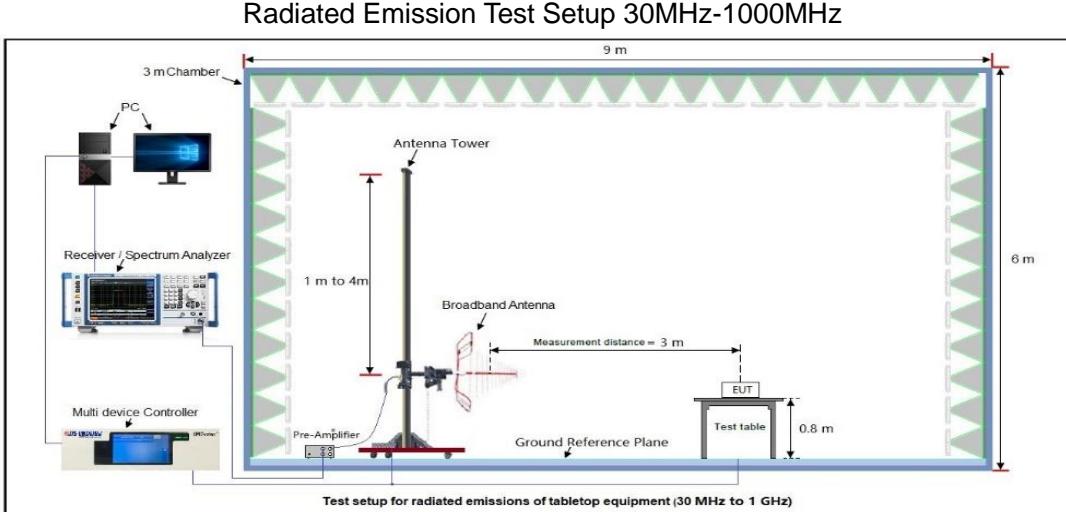
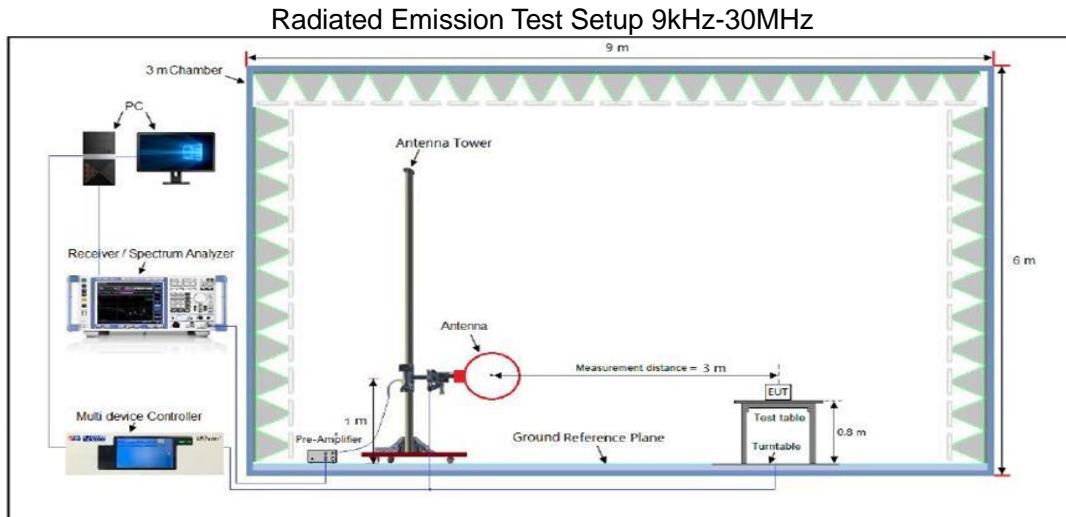
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7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

Radiated Emission From 9kHz to 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission From 9kHz-150kHz

EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		0.0103	8.97	43.44	52.41	127.14	-74.73	peak
2		0.0239	7.39	37.07	44.46	119.87	-75.41	peak
3		0.0454	10.15	33.94	44.09	114.34	-70.25	peak
4		0.0651	13.39	32.87	46.26	111.22	-64.96	peak
5		0.0966	6.80	32.17	38.97	107.82	-68.85	peak
6	*	0.1252	44.95	32.26	77.21	105.85	-28.37	peak

RESULT: PASS

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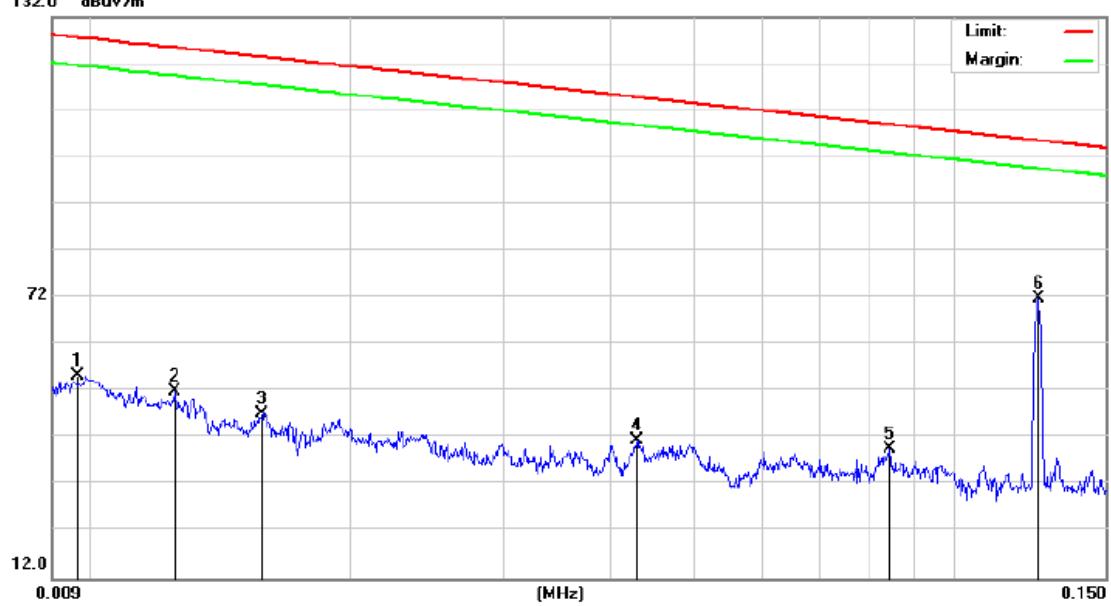
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Side

132.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.0097	11.58	43.77	55.35	127.66	-72.31	peak
2		0.0125	9.81	42.20	52.01	125.47	-73.46	peak
3		0.0158	7.05	40.34	47.39	123.45	-76.06	peak
4		0.0429	7.30	34.14	41.44	114.82	-73.38	peak
5		0.0842	7.39	32.36	39.75	109.00	-69.25	peak
6	*	0.1255	39.46	32.27	71.73	105.65	-33.83	peak

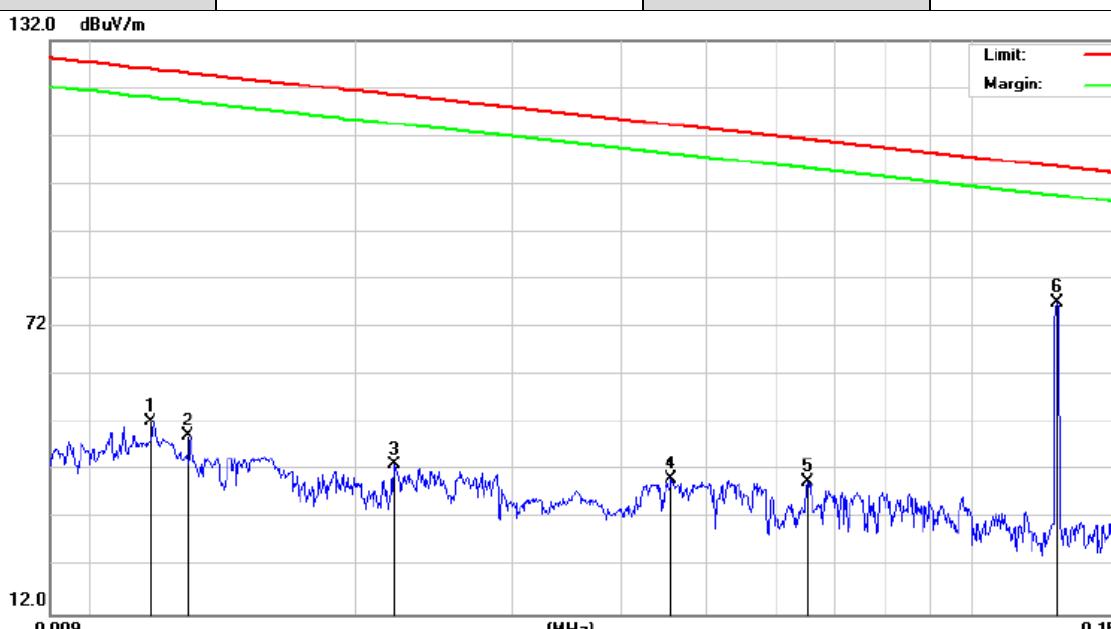
RESULT: PASS

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EUT	Face Recognition Door Phone	Model Name	i68				
Temperature	22.6 °C	Relative Humidity	56.6%				
Pressure	960hPa	Test Voltage	POE 802.3at Class 4				
Test Mode	Mode 1	Antenna	Face				
 <p>The graph shows the spectral emissions of the device. The Y-axis represents the field strength in dBuV/m, ranging from 12.0 to 132.0. The X-axis represents frequency in MHz, ranging from 0.009 to 0.150. A red line represents the limit, and a green line represents the margin. The measured data (blue line with markers) stays below the limit and margin throughout the frequency range, with a notable peak at 0.1248 MHz.</p>							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dB	Detector
1		0.0117	9.67	42.65	52.32	126.04	-73.72 peak
2		0.0129	7.45	41.97	49.42	125.20	-75.78 peak
3		0.0221	5.78	37.49	43.27	120.55	-77.28 peak
4		0.0456	6.41	33.92	40.33	114.30	-73.97 peak
5		0.0650	6.82	32.87	39.69	111.24	-71.55 peak
6	*	0.1248	45.05	32.26	77.31	105.15	-28.30 peak

RESULT: PASS

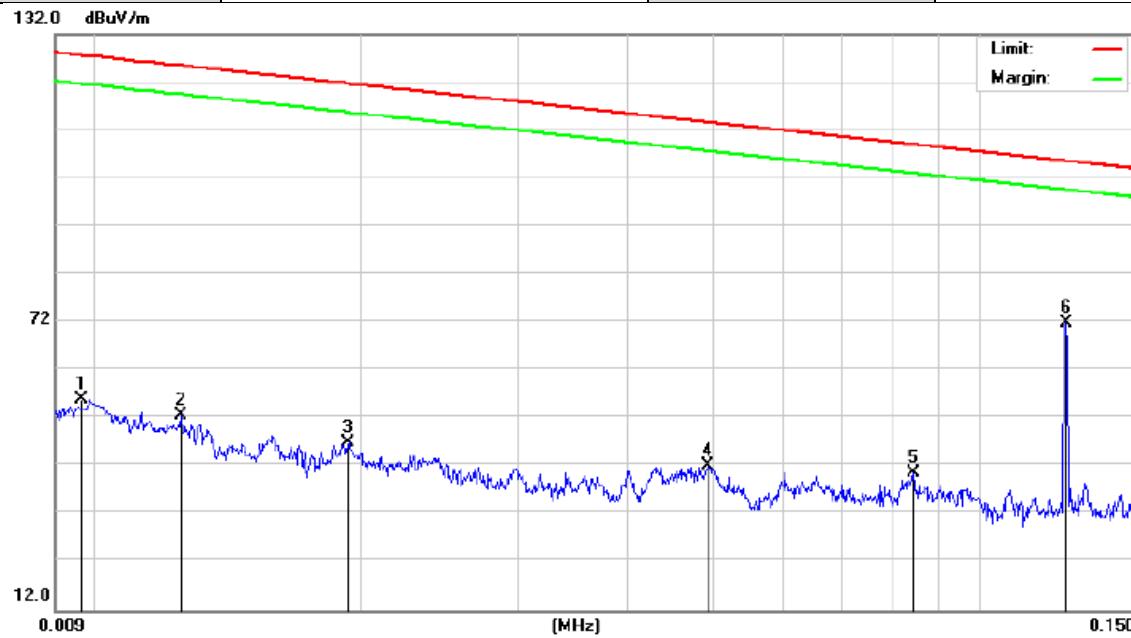
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6 °C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	POE 802.3at Class 4
Test Mode	Mode 1	Antenna	Side



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.0097	12.08	43.77	55.85	127.66	-71.81	peak
2		0.0125	10.31	42.20	52.51	125.47	-72.96	peak
3		0.0193	8.54	38.37	46.91	121.72	-74.81	peak
4		0.0493	8.67	33.63	42.30	113.62	-71.32	peak
5		0.0842	8.39	32.36	40.75	109.00	-68.25	peak
6	*	0.1255	39.46	32.27	71.73	105.65	-33.83	peak

RESULT: PASS

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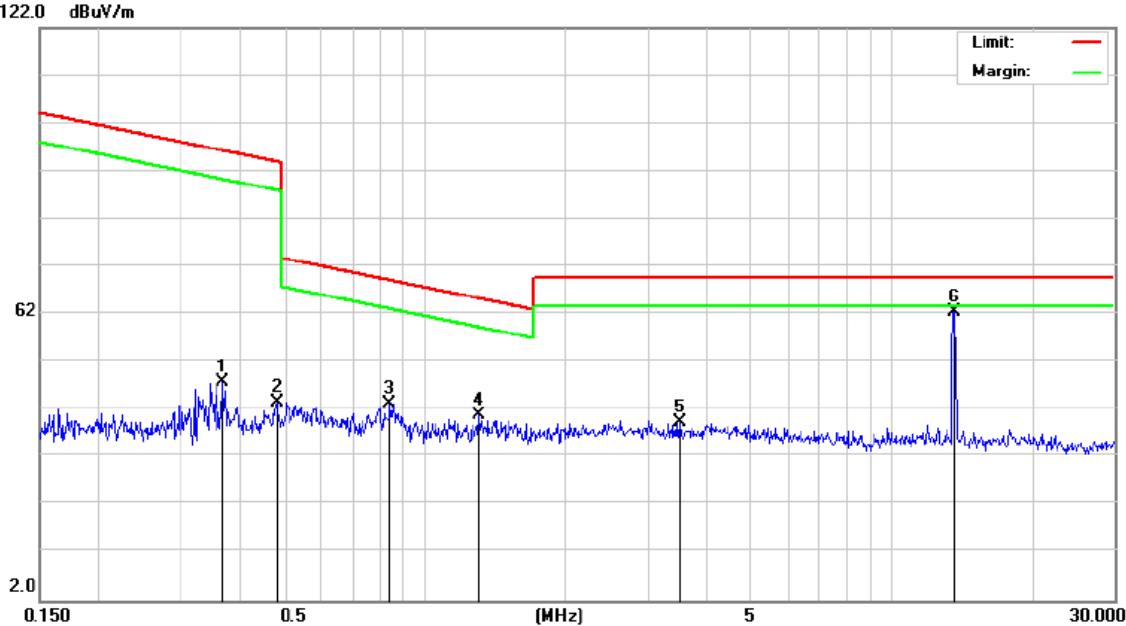
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Radiated Emission From 150KHz-30MHz

EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.3691	15.31	32.34	47.65	96.24	-48.59	peak	
2	0.4812	11.44	32.23	43.67	93.95	-50.28	peak	
3	0.8393	11.17	32.12	43.29	69.12	-25.83	peak	
4	1.3026	8.96	31.85	40.81	65.31	-24.50	peak	
5	3.5091	8.67	30.82	39.49	69.54	-30.05	peak	
6 *	13.5600	32.64	29.91	62.55	69.54	-6.99	peak	

RESULT: PASS

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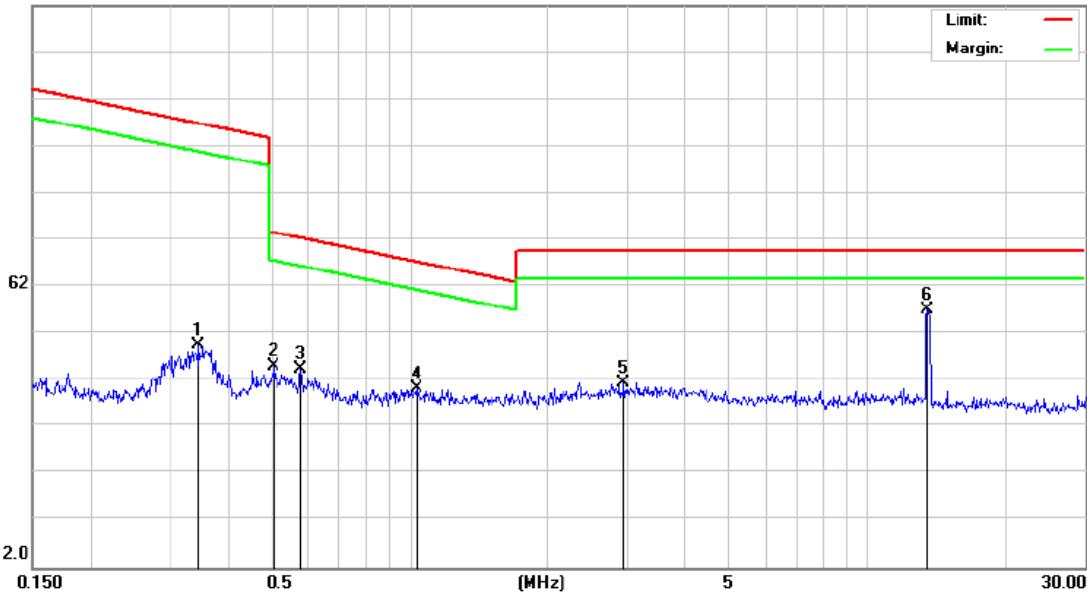
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Side

122.0 dBuV/m



2.0

122.0

62

0.150 0.5 5 30.000

0.150 0.5 5 30.000

Limit: — Red
Margin: - - - Green

1 2 3 4 5 6

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.3446	17.06	32.37	49.43	96.84	-47.41	peak
2		0.5047	12.70	32.21	44.91	73.54	-28.63	peak
3		0.5762	12.36	32.19	44.55	72.39	-27.84	peak
4		1.0320	8.25	31.98	40.23	67.33	-27.10	peak
5		2.9305	10.35	31.25	41.60	69.54	-27.94	peak
6	*	13.5600	27.19	29.91	57.10	69.54	-12.44	peak

RESULT: PASS

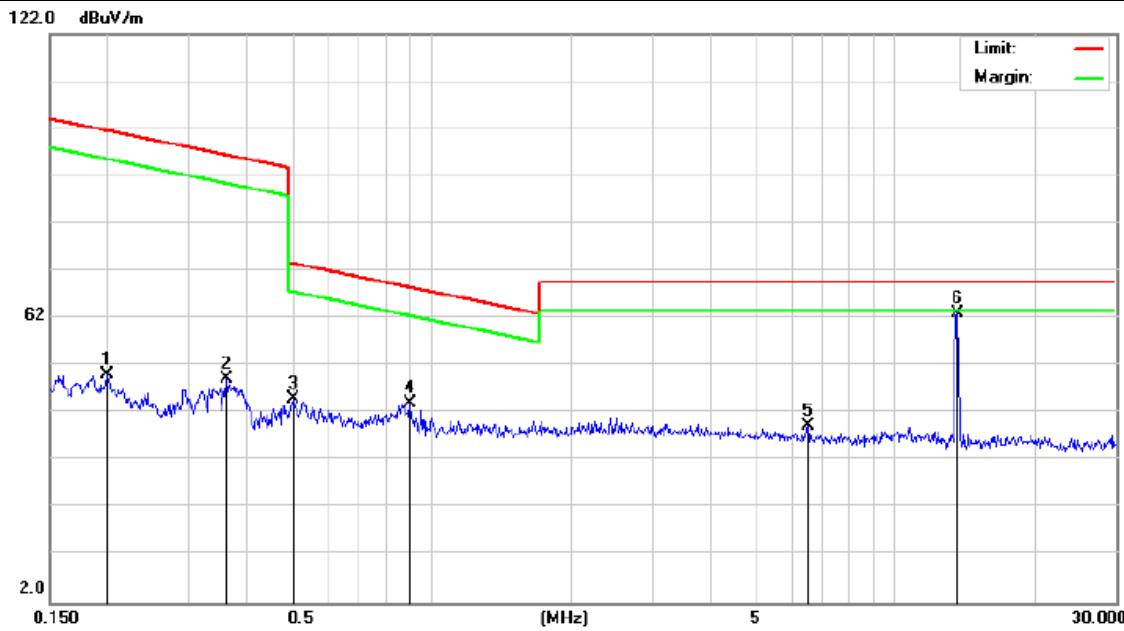
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	POE 802.3at Class 4
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		0.1997	17.43	32.66	50.09	101.5	-51.46 peak
2		0.3615	16.94	32.35	49.29	96.42	-47.13 peak
3		0.5020	12.72	32.21	44.93	73.59	-28.66 peak
4		0.8992	12.03	32.10	44.13	68.53	-24.40 peak
5		6.4882	10.95	28.39	39.34	69.54	-30.20 peak
6	*	13.5600	33.25	29.91	63.16	69.54	-6.38 peak

RESULT: PASS

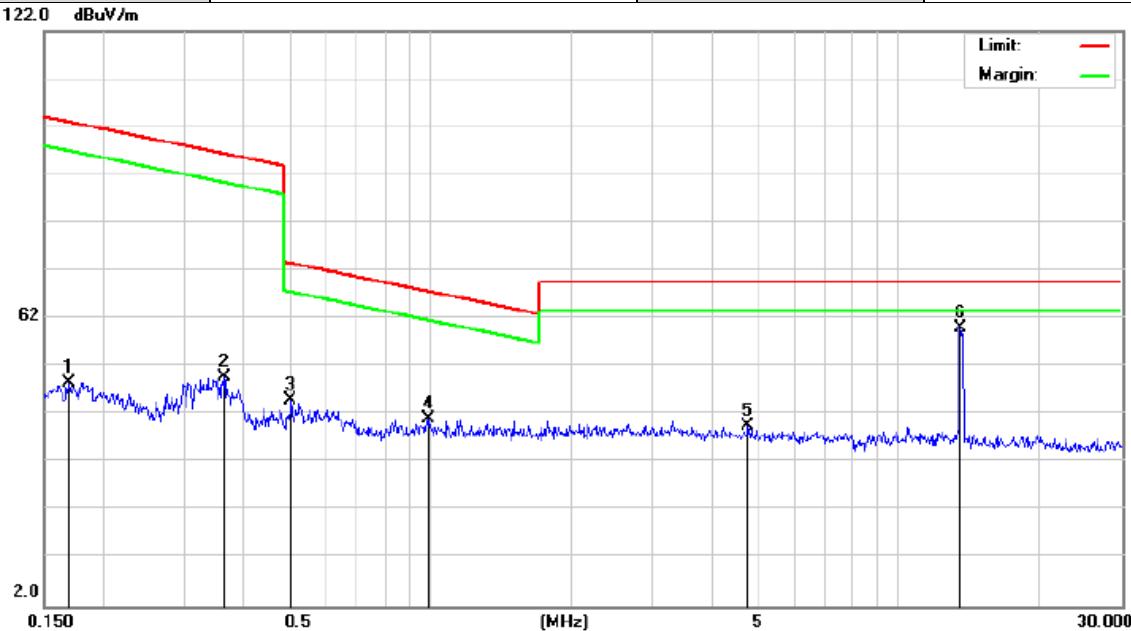
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	POE 802.3at Class 4
Test Mode	Mode 1	Antenna	Side



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1693	16.25	32.50	48.75	102.9	-54.22	peak
2		0.3634	17.53	32.35	49.88	96.38	-46.50	peak
3		0.5047	12.90	32.21	45.11	73.54	-28.43	peak
4		0.9890	9.11	32.01	41.12	67.70	-26.58	peak
5		4.7716	9.83	29.68	39.51	69.54	-30.03	peak
6	*	13.5600	30.15	29.91	60.06	69.54	-9.48	peak

RESULT: PASS

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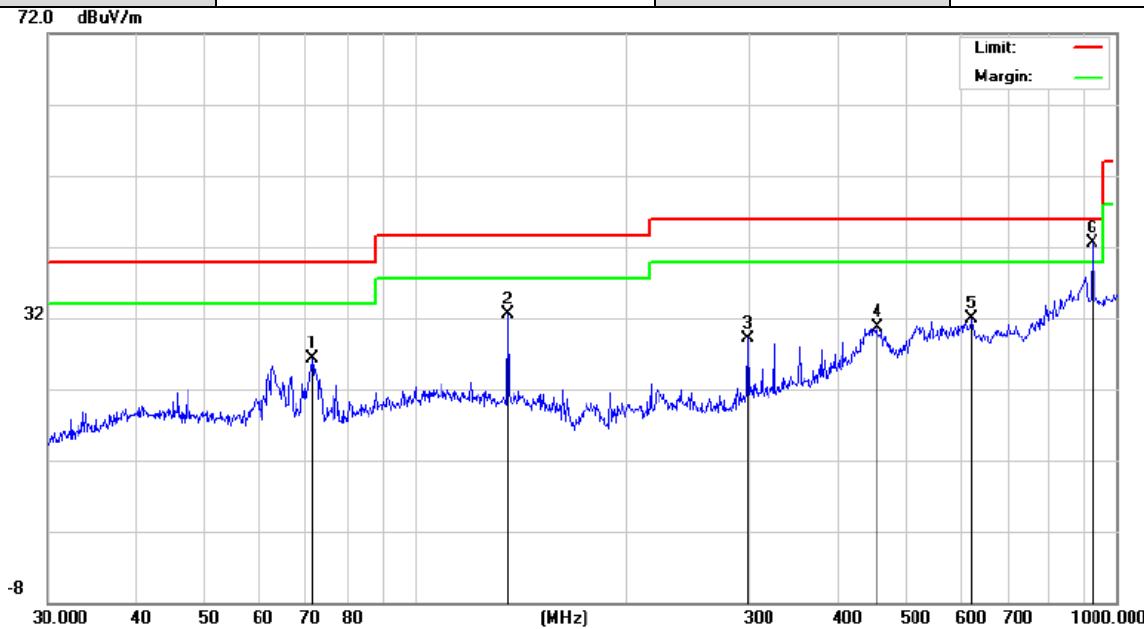
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Radiated Emission From 30MHz to 1000MHz

EUT Name	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dB	Detector
1	71.3300	13.47	12.84	26.31	40.00	-13.69	peak
2	135.5062	17.06	15.47	32.53	43.50	-10.97	peak
3	298.2681	12.68	16.36	29.04	46.00	-16.96	peak
4	455.9058	6.24	24.54	30.78	46.00	-15.22	peak
5	622.8900	6.98	24.93	31.91	46.00	-14.09	peak
6 *	925.7563	13.52	29.00	42.52	46.00	-3.48	peak

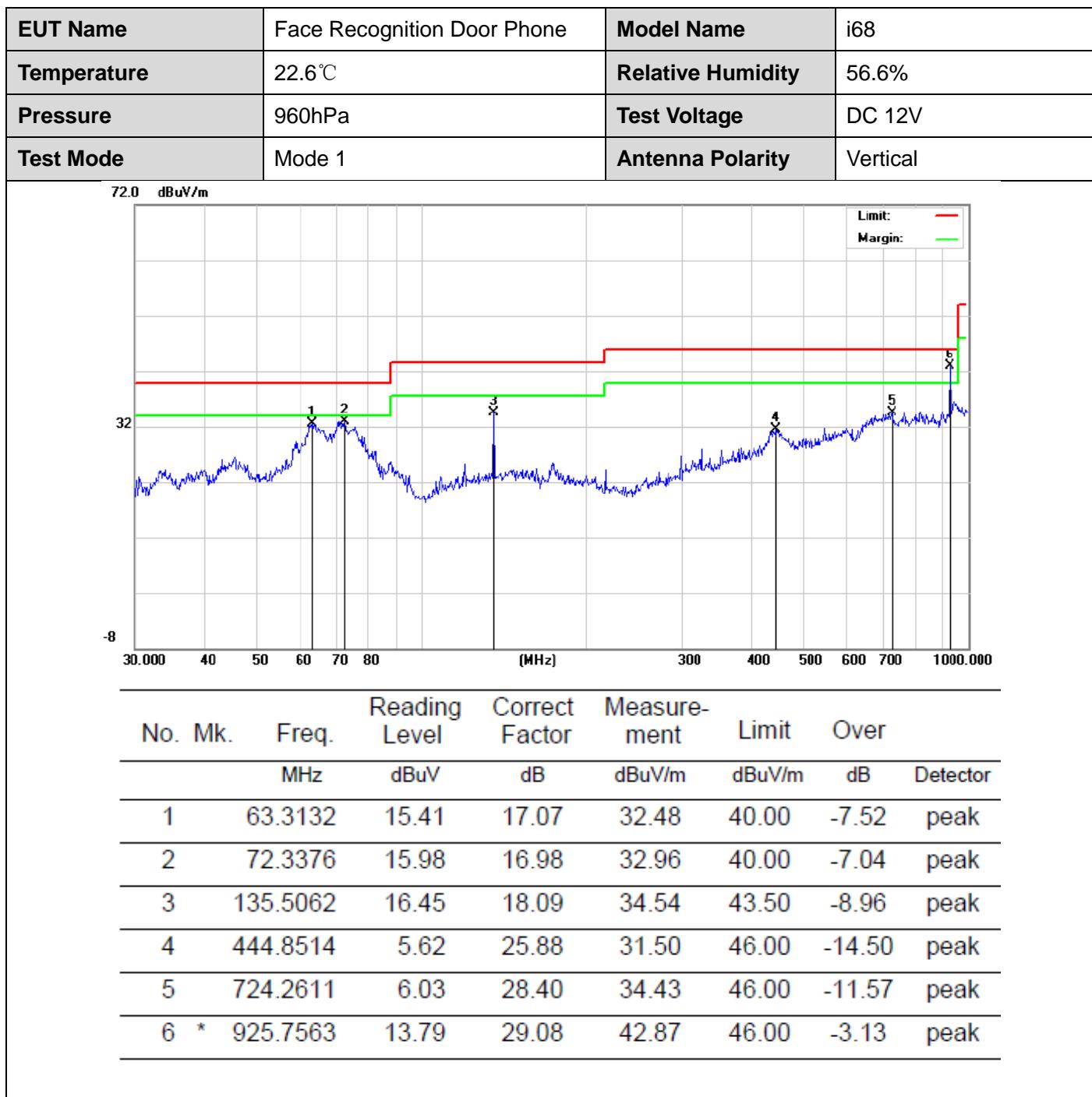
RESULT: PASS

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RESULT: Pass

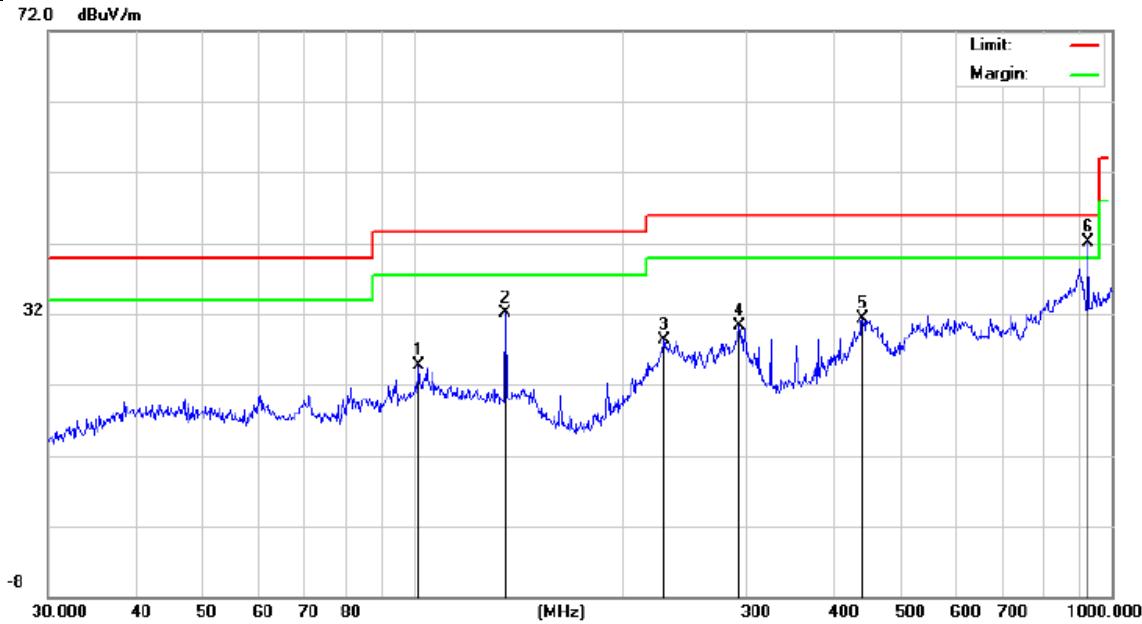
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	POE 802.3at Class 4
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dB	Detector
1	102.0014	8.55	16.22	24.77	43.50	-18.73	peak
2	135.5062	16.72	15.47	32.19	43.50	-11.31	peak
3	228.4904	13.46	14.82	28.28	46.00	-17.72	peak
4	293.0842	14.43	15.95	30.38	46.00	-15.62	peak
5	440.1963	6.16	25.09	31.25	46.00	-14.75	peak
6 *	925.7563	13.11	29.00	42.11	46.00	-3.89	peak

RESULT: PASS

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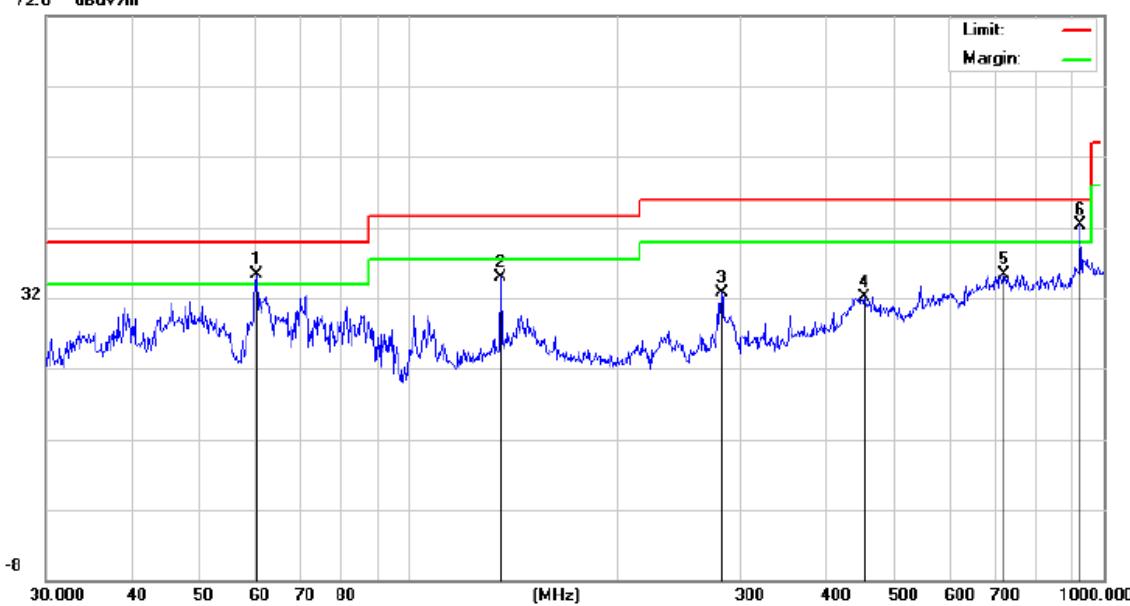
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EUT	Face Recognition Door Phone	Model Name	i68
Temperature	22.6 °C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	POE 802.3at Class 4
Test Mode	Mode 1	Antenna	Side

72.0 dBuV/m



Limit: —
 Margin: —

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	!	60.2801	18.15	17.10	35.25	40.00	-4.75	peak
2		135.5062	16.86	18.09	34.95	43.50	-8.55	peak
3		281.9946	14.28	18.45	32.73	46.00	-13.27	peak
4		452.7197	6.56	25.53	32.09	46.00	-13.91	peak
5		719.1995	6.55	28.77	35.32	46.00	-10.68	peak
6	*	925.7563	13.19	29.08	42.27	46.00	-3.73	peak

RESULT: PASS

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Radiated Emission From 9kHz-150kHz

EUT	Face Recognition Door Phone	Model Name	i68L
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1		0.0105	9.07	43.32	52.39	126.98	-74.59
2		0.0114	7.38	42.82	50.20	126.27	-76.07
3		0.0466	2.57	33.84	36.41	114.11	-77.70
4		0.0651	3.93	32.87	36.80	111.22	-74.42
5		0.0856	3.86	32.33	36.19	108.86	-72.67
6	*	0.1252	31.15	32.26	63.41	105.85	-42.17

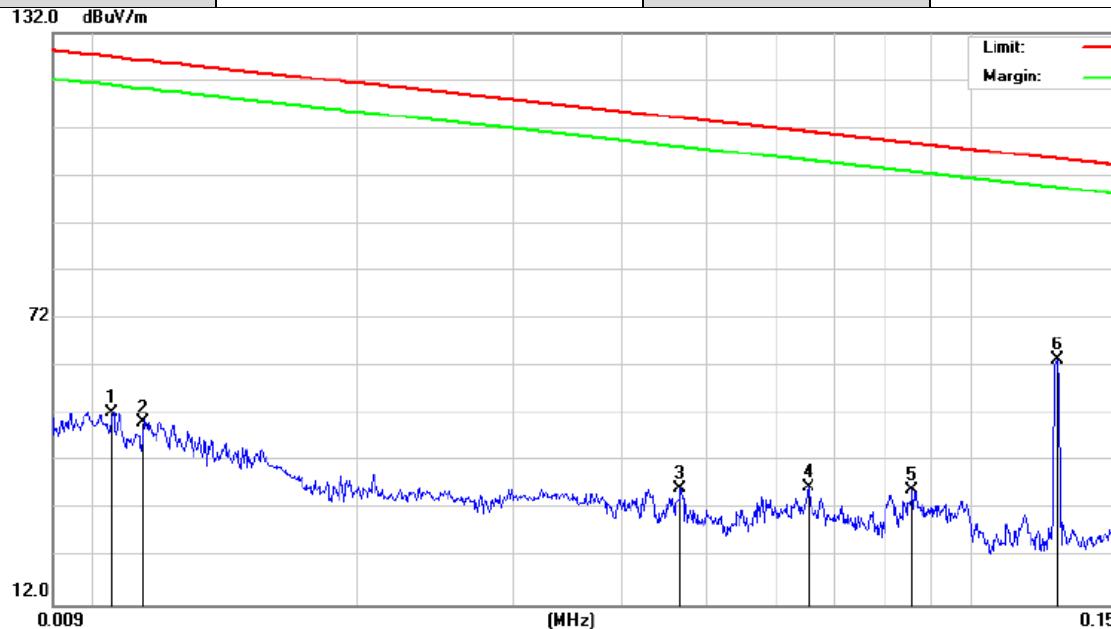
RESULT: PASS

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EUT	Face Recognition Door Phone	Model Name	i68L					
Temperature	22.6°C	Relative Humidity	56.6%					
Pressure	960hPa	Test Voltage	DC 12V					
Test Mode	Mode 1	Antenna	Side					
								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.0105	9.07	43.32	52.39	126.98	-74.59	peak
2		0.0114	7.38	42.82	50.20	126.27	-76.07	peak
3		0.0466	2.57	33.84	36.41	114.11	-77.70	peak
4		0.0651	3.93	32.87	36.80	111.22	-74.42	peak
5		0.0856	3.86	32.33	36.19	108.86	-72.67	peak
6	*	0.1252	31.15	32.26	63.41	105.85	-42.17	peak

RESULT: PASS

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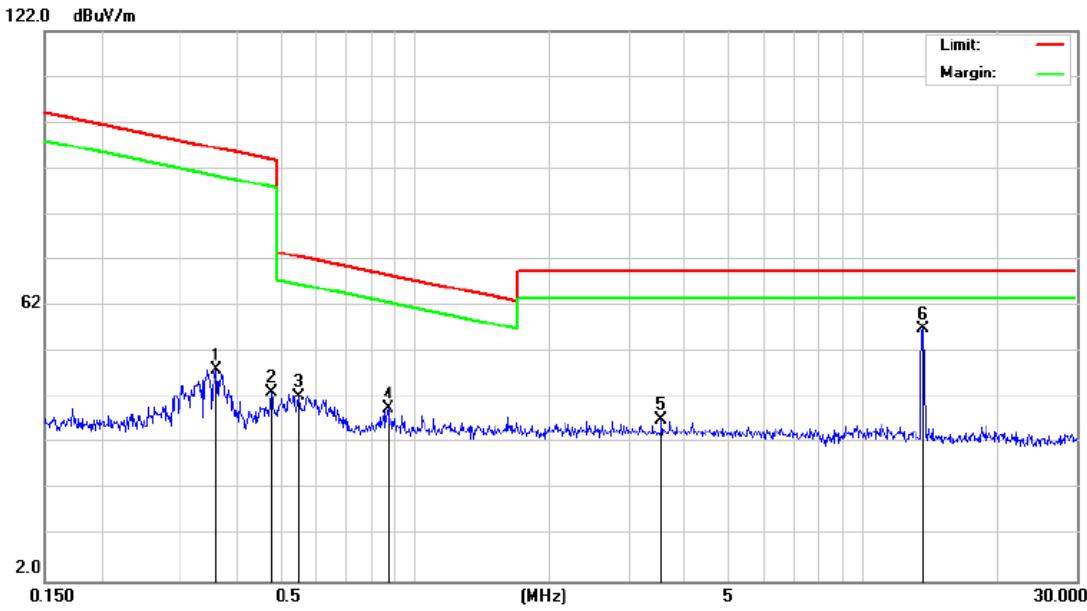
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Radiated Emission From 150KHz-30MHz

EUT	Face Recognition Door Phone	Model Name	i68L
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna	Face



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dB	Detector
1	0.3613	15.74	32.35	48.09	96.43	-48.34	peak
2	0.4786	10.92	32.23	43.15	94.00	-50.85	peak
3	0.5523	10.08	32.19	42.27	72.76	-30.49	peak
4	0.8709	7.42	32.11	39.53	68.80	-29.27	peak
5	3.5466	6.44	30.79	37.23	69.54	-32.31	peak
6	*	13.5600	27.26	29.91	69.54	-12.37	peak

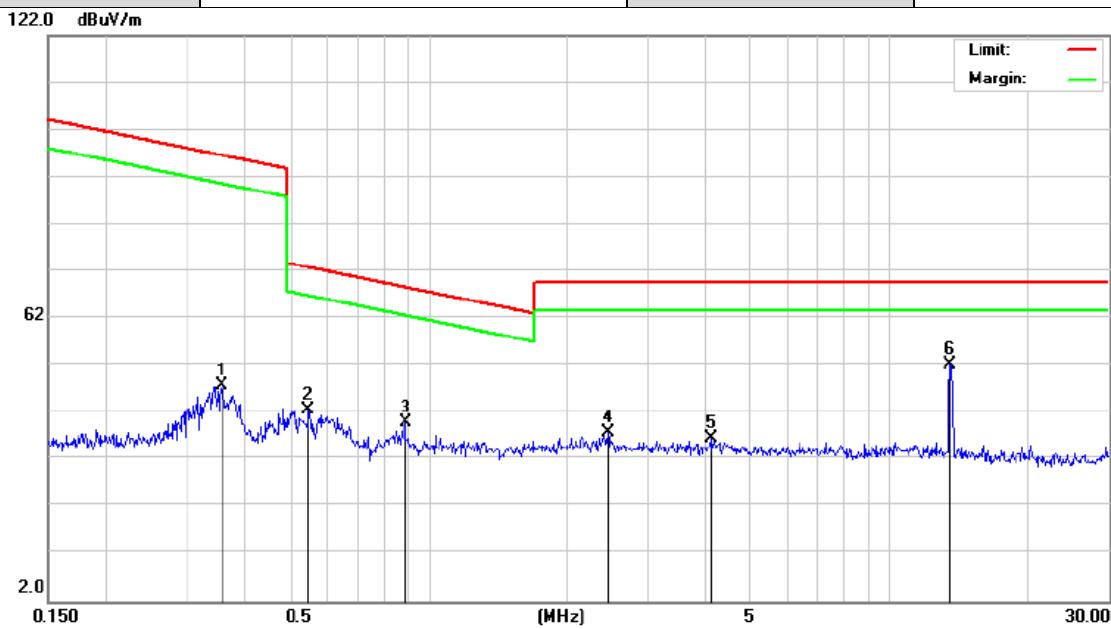
RESULT: PASS

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EUT	Face Recognition Door Phone	Model Name	i68L					
Temperature	22.6°C	Relative Humidity	56.6%					
Pressure	960hPa	Test Voltage	DC 12V					
Test Mode	Mode 1	Antenna	Side					
 <p>The graph shows the spectral emissions of the device. The Y-axis represents the field strength in dBuV/m, ranging from 2.0 to 122.0. The X-axis represents frequency in MHz, ranging from 0.150 to 30.000. A red line represents the emission limit, and a green line represents the margin. The blue line with 'X' markers shows the measured data points. The data points are labeled 1 through 6, corresponding to the measurement table below. The device passes the test as all measured points fall within the emission limit.</p>								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.3558	15.38	32.35	47.73	96.56	-48.83	peak
2		0.5493	10.38	32.20	42.58	72.81	-30.23	peak
3		0.8897	7.99	32.10	40.09	68.62	-28.53	peak
4		2.4475	6.46	31.39	37.85	69.54	-31.69	peak
5		4.0918	6.44	30.34	36.78	69.54	-32.76	peak
6	*	13.5600	22.31	29.91	52.22	69.54	-17.32	peak

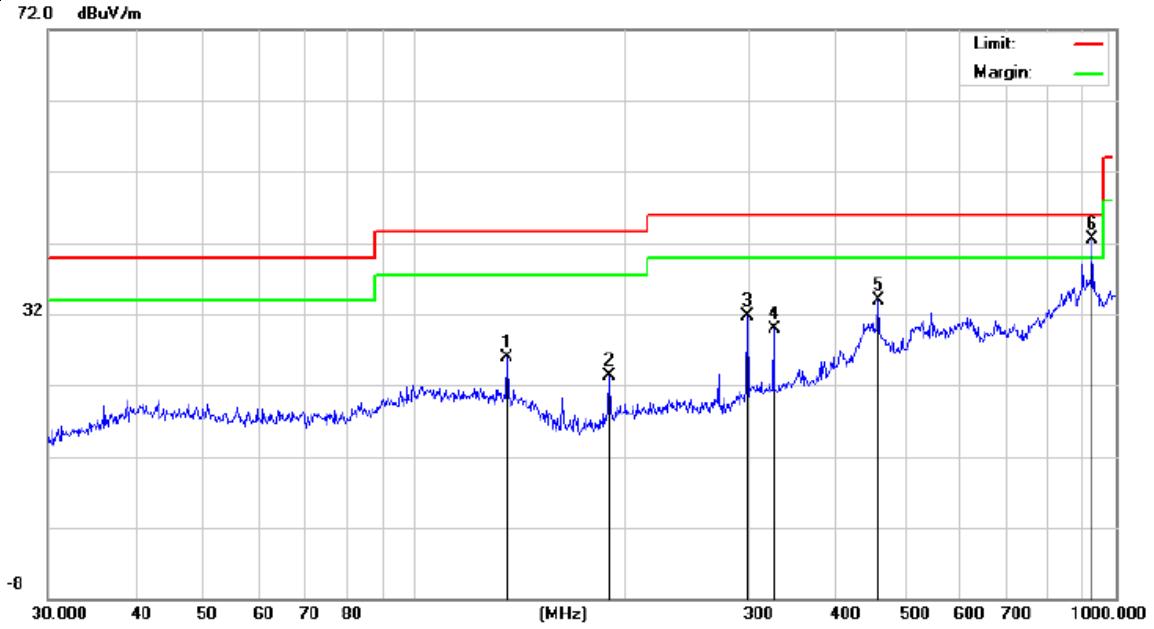
RESULT: PASS

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EUT Name	Face Recognition Door Phone		Model Name	i68L																																																																	
Temperature	22.6°C		Relative Humidity	56.6%																																																																	
Pressure	960hPa		Test Voltage	DC 12V																																																																	
Test Mode	Mode 1		Antenna Polarity	Horizontal																																																																	
 <p>The graph shows the spectral emissions of the EUT (Face Recognition Door Phone) in dBuV/m versus frequency in MHz. The Y-axis ranges from -8 to 72.0 dBuV/m, and the X-axis ranges from 30.000 to 1000.000 MHz. A blue line represents the measured spectrum, which generally stays below the red 'Limit' line (43.50 dBuV/m) and the green 'Margin' line (46.00 dBuV/m). Several vertical markers are present at specific frequencies: 135.5062 MHz (marked 1), 189.7385 MHz (marked 2), 298.2681 MHz (marked 3), 325.5958 MHz (marked 4), 459.1144 MHz (marked 5), and 925.7563 MHz (marked 6).</p>																																																																					
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq. MHz</th> <th>Reading Level dBuV</th> <th>Correct Factor dB</th> <th>Measure- ment dBuV/m</th> <th>Limit dBuV/m</th> <th>Over dB</th> <th>Over Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>135.5062</td> <td>10.49</td> <td>15.47</td> <td>25.96</td> <td>43.50</td> <td>-17.54</td> <td>peak</td> </tr> <tr> <td>2</td> <td></td> <td>189.7385</td> <td>9.89</td> <td>13.32</td> <td>23.21</td> <td>43.50</td> <td>-20.29</td> <td>peak</td> </tr> <tr> <td>3</td> <td></td> <td>298.2681</td> <td>15.40</td> <td>16.36</td> <td>31.76</td> <td>46.00</td> <td>-14.24</td> <td>peak</td> </tr> <tr> <td>4</td> <td></td> <td>325.5958</td> <td>13.15</td> <td>16.67</td> <td>29.82</td> <td>46.00</td> <td>-16.18</td> <td>peak</td> </tr> <tr> <td>5</td> <td></td> <td>459.1144</td> <td>9.47</td> <td>24.43</td> <td>33.90</td> <td>46.00</td> <td>-12.10</td> <td>peak</td> </tr> <tr> <td>6</td> <td>*</td> <td>925.7563</td> <td>13.42</td> <td>29.00</td> <td>42.42</td> <td>46.00</td> <td>-3.58</td> <td>peak</td> </tr> </tbody> </table>							No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector	1		135.5062	10.49	15.47	25.96	43.50	-17.54	peak	2		189.7385	9.89	13.32	23.21	43.50	-20.29	peak	3		298.2681	15.40	16.36	31.76	46.00	-14.24	peak	4		325.5958	13.15	16.67	29.82	46.00	-16.18	peak	5		459.1144	9.47	24.43	33.90	46.00	-12.10	peak	6	*	925.7563	13.42	29.00	42.42	46.00	-3.58	peak
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector																																																													
1		135.5062	10.49	15.47	25.96	43.50	-17.54	peak																																																													
2		189.7385	9.89	13.32	23.21	43.50	-20.29	peak																																																													
3		298.2681	15.40	16.36	31.76	46.00	-14.24	peak																																																													
4		325.5958	13.15	16.67	29.82	46.00	-16.18	peak																																																													
5		459.1144	9.47	24.43	33.90	46.00	-12.10	peak																																																													
6	*	925.7563	13.42	29.00	42.42	46.00	-3.58	peak																																																													

RESULT: PASS

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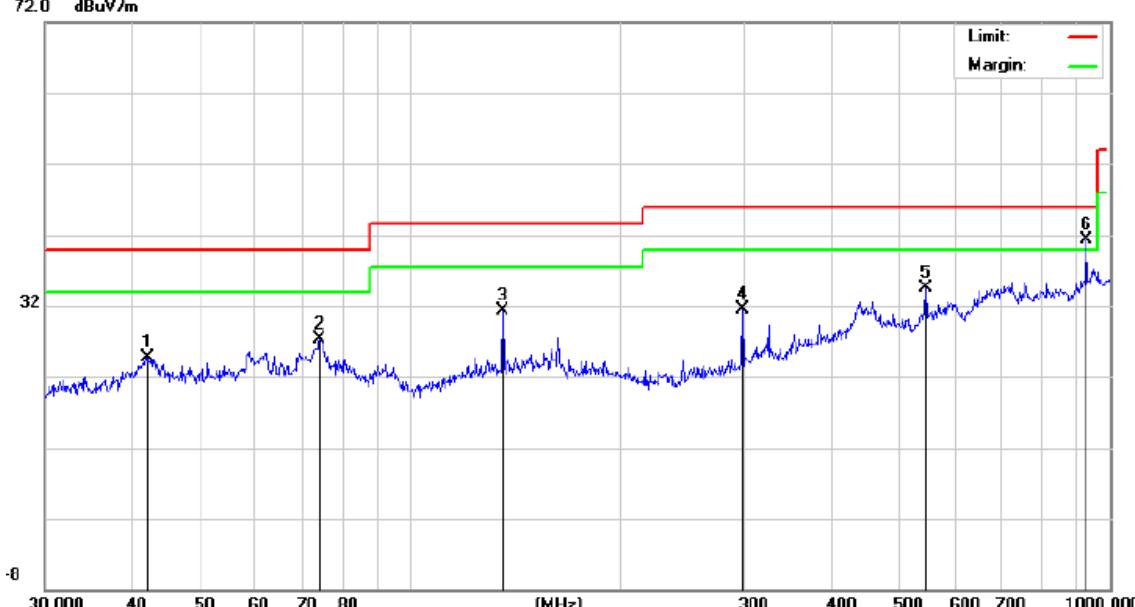
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EUT Name	Face Recognition Door Phone	Model Name	i68L
Temperature	22.6°C	Relative Humidity	56.6%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Vertical

72.0 dBuV/m



-8 32 72.0

30.000 40 50 60 70 80 90 100 200 300 400 500 600 700 800 900 1000.000

[MHz]

Limit: — Red
Margin: — Green

1 2 3 4 5 6

No. Mk. Freq. Reading Level Correct Factor Measurement Limit Over

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		42.0066	7.73	16.92	24.65	40.00	-15.35	peak
2		74.1351	10.31	16.96	27.27	40.00	-12.73	peak
3		135.5062	13.19	18.09	31.28	43.50	-12.22	peak
4		298.2681	12.64	18.86	31.50	46.00	-14.50	peak
5		545.1826	9.77	24.67	34.44	46.00	-11.56	peak
6	*	925.7563	12.22	29.08	41.30	46.00	-4.70	peak

RESULT: Pass

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.

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8. 20dB Bandwidth Measurement

8.1 Provisions Applicable

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

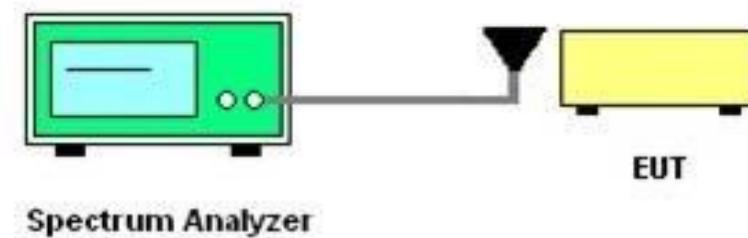
8.2 Measurement Procedure

Set the parameters of SPA as below:

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. Centre frequency = Operation Frequency
3. The resolution bandwidth of 10 kHz and the video bandwidth of 30 kHz were used.
4. Span: 60kHz, Sweep time: Auto
5. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the “N dB down” function of SPA to define the bandwidth.
6. Measured the spectrum width with power higher than 20dB below carrier.
7. Measured the 99% OBW.
8. Record the plots and reported.

Note: Since the measured signal is CW-like, it is not practical to adjust the RBW according to C63.10, as the measured bandwidth will always follow the RBW, resulting in approximately twice the RBW.

8.3 Measurement Setup (Block Diagram of Configuration)



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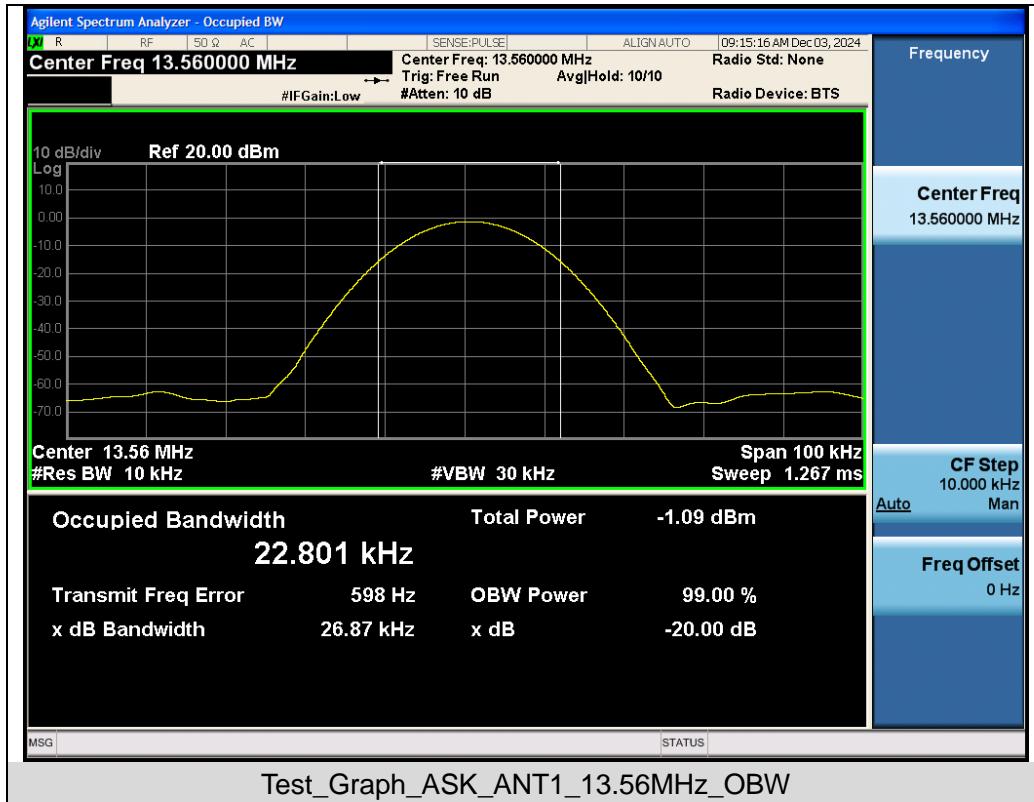
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8.4 Measurement Result

Test Data of Bandwidth Measurement					
Test Channel (MHz)	Modulation	99% Occupied Bandwidth (kHz)	-20dB Bandwidth (kHz)	Limits (kHz)	Pass or Fail
13.56	ASK	22.801	26.87	N/A	Pass

Test Graphs of Occupied Bandwidth and -20dB Bandwidth



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9. Frequency Stability Measurement

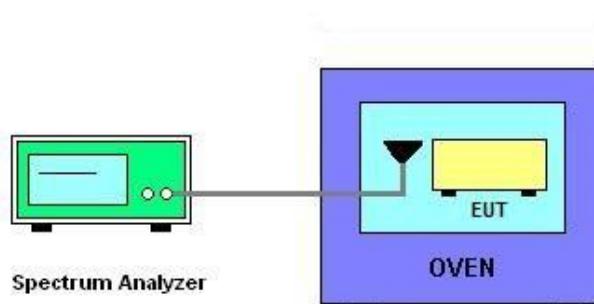
9.1 Provisions Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

9.2 Measurement Procedure

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and max hold settings.
5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is -20°C~50°C.

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 Measurement Result

- For DC 12V:

Test Data of Frequency Stability Measurement					
Test Channel (MHz)	Measurement Conditions		Measurement Result (ppm)	Limits (ppm)	Pass or Fail
	Voltage (V)	Temperature (°C)			
13.56	12.0	-20	41	±100	Pass
		-10	34	±100	Pass
		0	33	±100	Pass
		10	29	±100	Pass
		25	37	±100	Pass
		30	40	±100	Pass
		40	36	±100	Pass
		50	35	±100	Pass
		12.0	31	±100	Pass
		10.8	36	±100	Pass
		13.2	38	±100	Pass

- For POE 802.3at Class 4

Test Data of Frequency Stability Measurement					
Test Channel (MHz)	Measurement Conditions		Measurement Result (ppm)	Limits (ppm)	Pass or Fail
	Voltage (V)	Temperature (°C)			
13.56	12.0	-20	38	±100	Pass
		-10	49	±100	Pass
		0	41	±100	Pass
		10	44	±100	Pass
		25	39	±100	Pass
		30	48	±100	Pass
		40	36	±100	Pass
		50	38	±100	Pass
		12.0	40	±100	Pass
		10.8	42	±100	Pass
		13.2	44	±100	Pass

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10. AC Power Line Conducted Emission Test

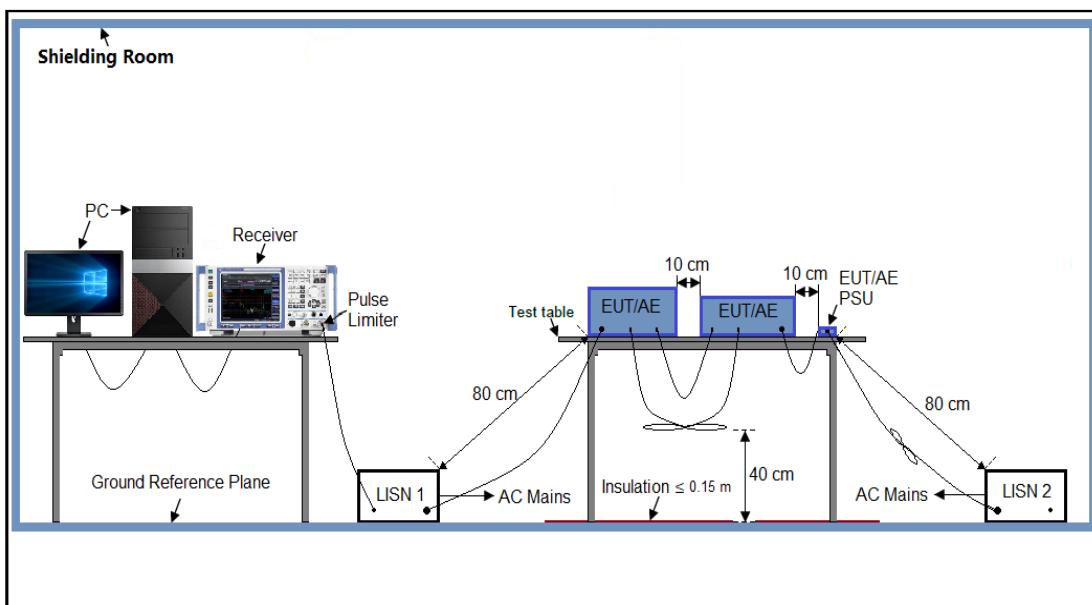
10.1 Measurement Limit

Frequency Range	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2 Measurement Setup (Block Diagram of Configuration)



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10.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 12V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

10.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

10.5 Measurement Result

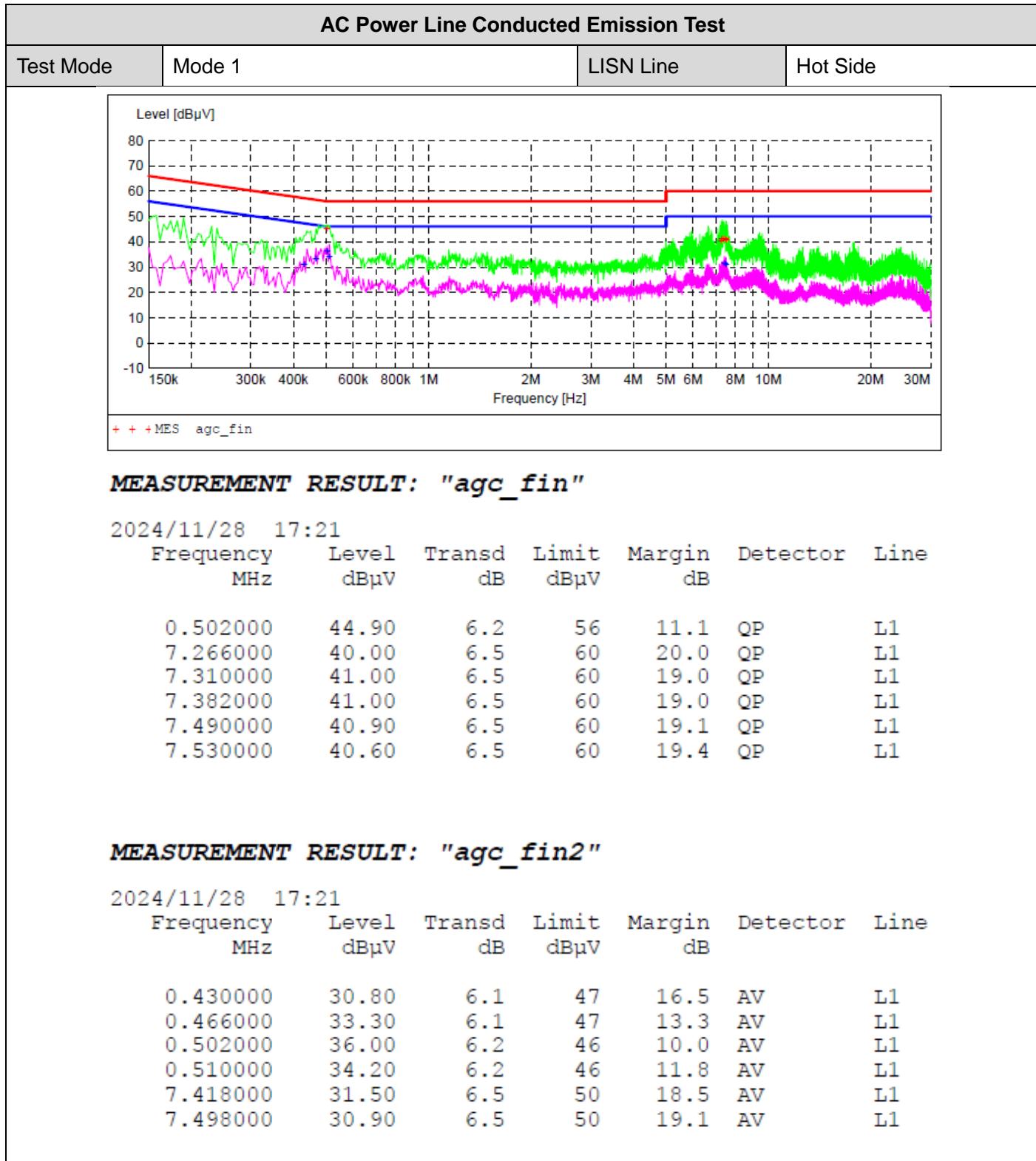
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- i68 For DC 12V:



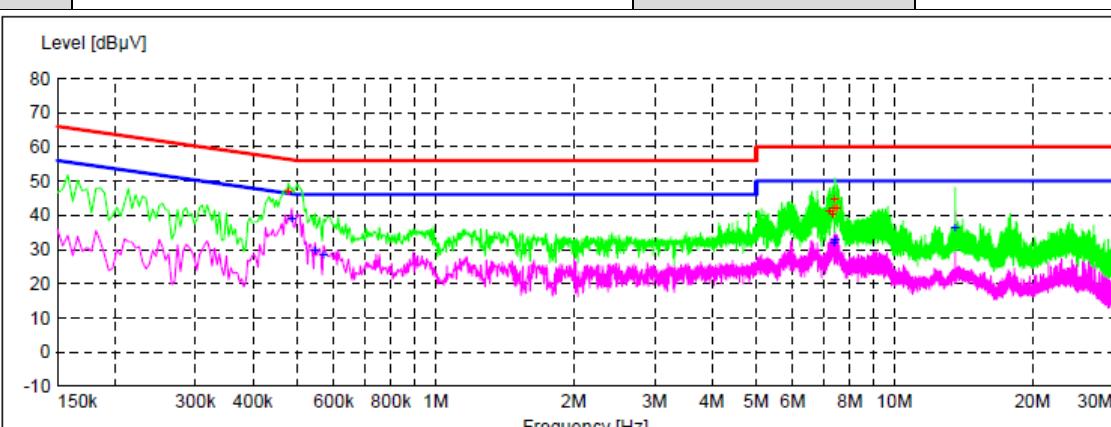
RESULT: Pass

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AC Power Line Conducted Emission Test																																																								
Test Mode	Mode 1		LISN Line		Neutral Side																																																			
 + + + MES agc_fin																																																								
MEASUREMENT RESULT: "agc_fin"																																																								
2024/11/28 17:18 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Frequency MHz</th> <th style="text-align: center;">Level dBμV</th> <th style="text-align: center;">Transd dB</th> <th style="text-align: center;">Limit dBμV</th> <th style="text-align: center;">Margin dB</th> <th style="text-align: center;">Detector</th> <th style="text-align: center;">Line</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0.478000</td> <td style="text-align: center;">46.80</td> <td style="text-align: center;">6.1</td> <td style="text-align: center;">56</td> <td style="text-align: center;">9.6</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">7.234000</td> <td style="text-align: center;">41.10</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">60</td> <td style="text-align: center;">18.9</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">7.342000</td> <td style="text-align: center;">40.40</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">60</td> <td style="text-align: center;">19.6</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">7.378000</td> <td style="text-align: center;">42.00</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">60</td> <td style="text-align: center;">18.0</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">7.414000</td> <td style="text-align: center;">44.60</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">60</td> <td style="text-align: center;">15.4</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">7.490000</td> <td style="text-align: center;">41.80</td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">60</td> <td style="text-align: center;">18.2</td> <td style="text-align: center;">QP</td> <td style="text-align: center;">N</td> </tr> </tbody> </table>								Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	0.478000	46.80	6.1	56	9.6	QP	N	7.234000	41.10	6.5	60	18.9	QP	N	7.342000	40.40	6.5	60	19.6	QP	N	7.378000	42.00	6.5	60	18.0	QP	N	7.414000	44.60	6.5	60	15.4	QP	N	7.490000	41.80	6.5	60	18.2	QP	N
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RESULT: PASS

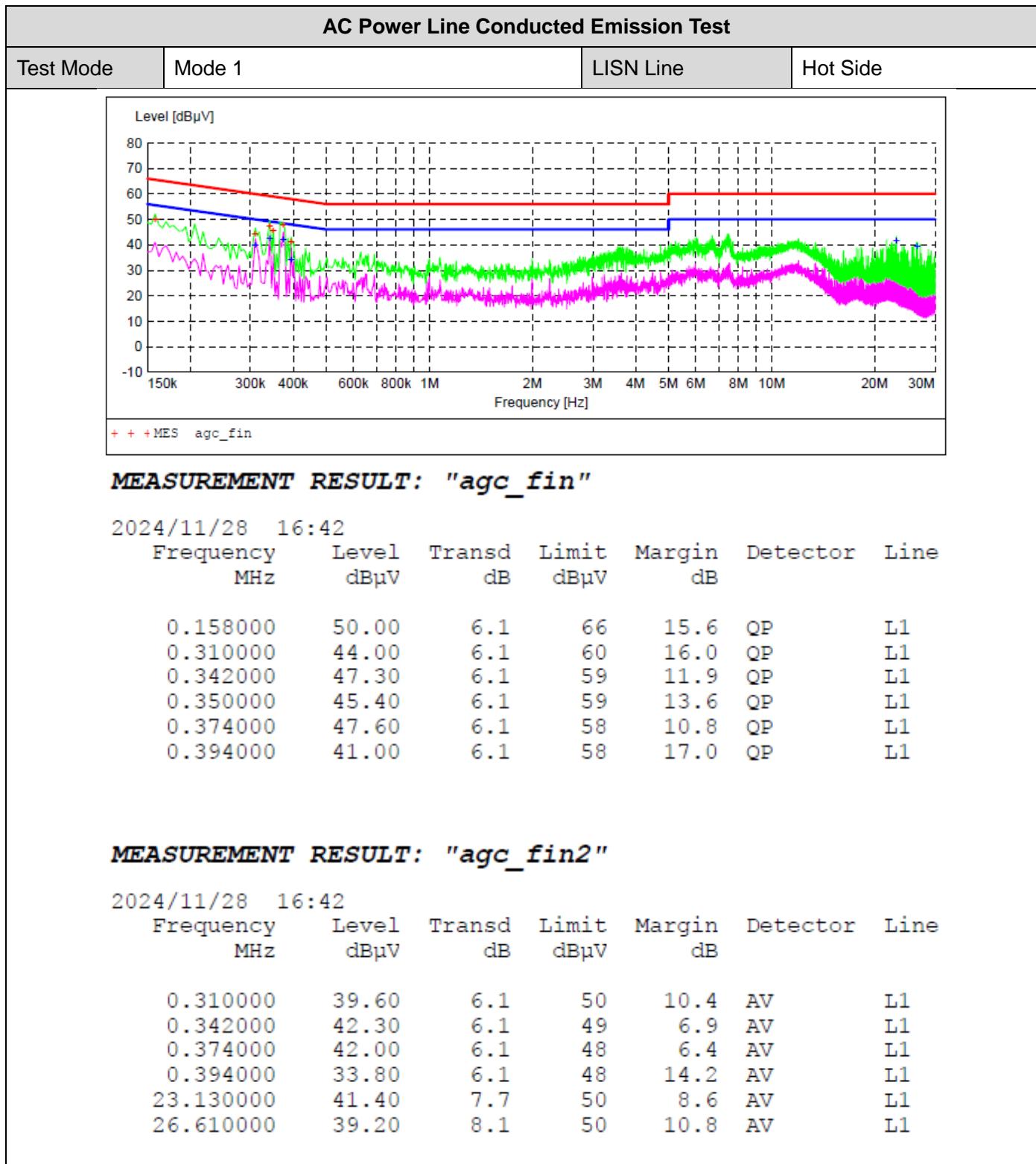
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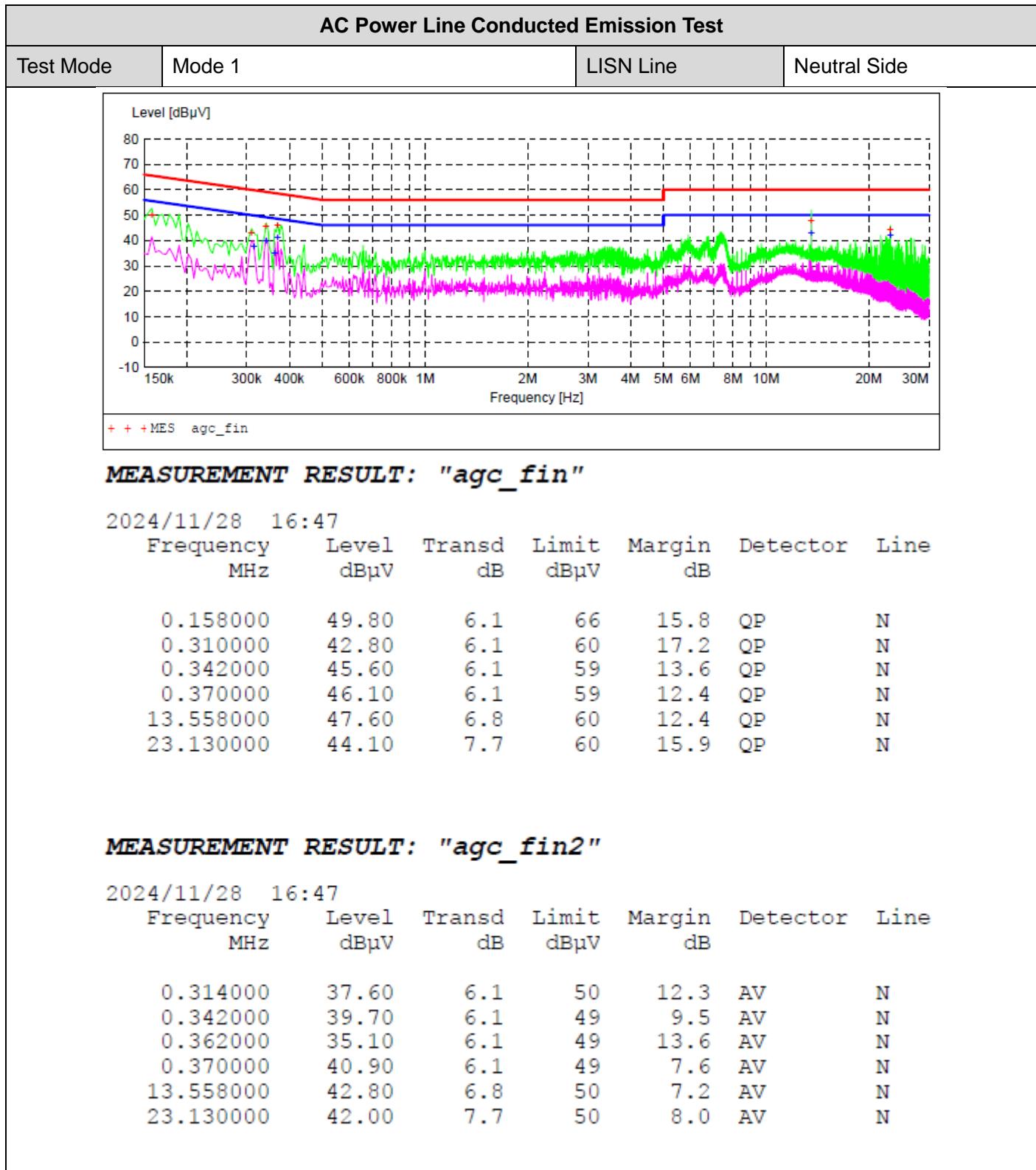
RESULT: Pass

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RESULT: PASS

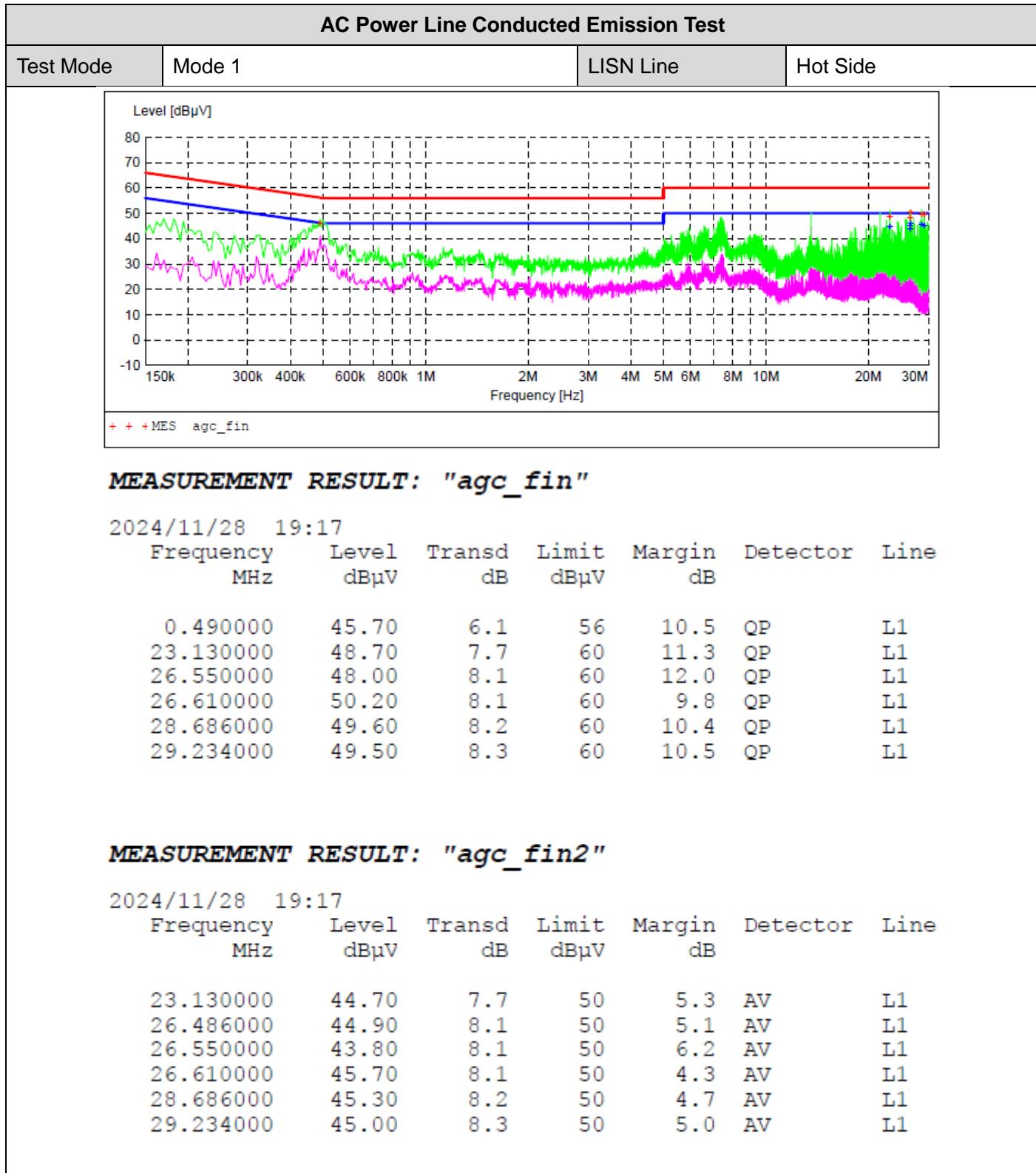
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- i68L For DC 12V:



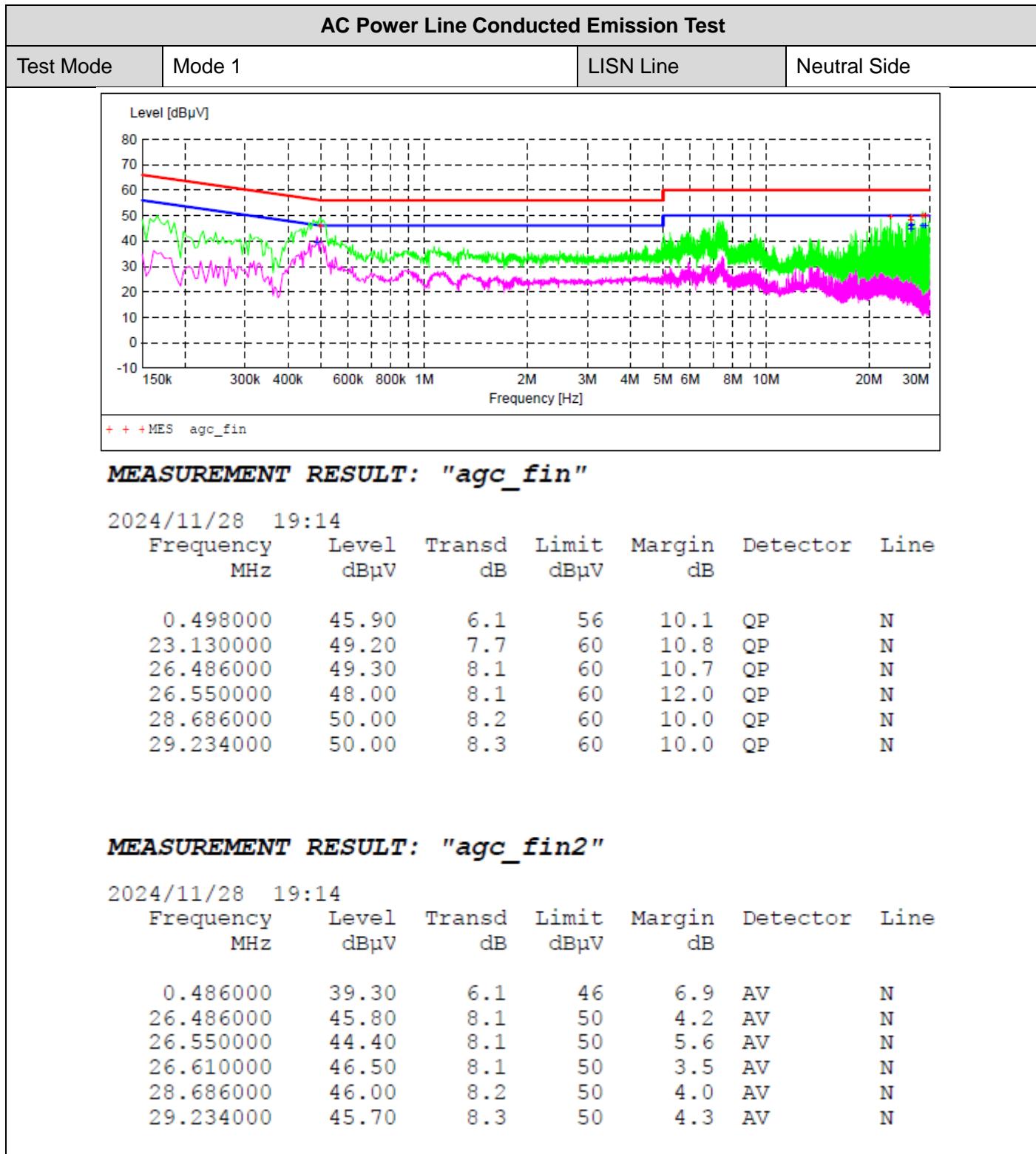
RESULT: Pass

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**RESULT: PASS**

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499241106AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499241106AP02

-----End of Report-----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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