



中国认可
国际互认
检测
TESTING
CNAS L645



RADIO TEST REPORT

Applicant	:	Arashi Vision Inc.
Address of Applicant	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China
Manufacturer	:	Arashi Vision Inc.
Address of Manufacturer	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China
Equipment under Test	:	Insta360 Ace Pro 2 Pocket Printer
Model No.	:	CINSEBGC
FCC ID	:	2AWWH-CINSEBGC
IC	:	26293-CINSEBGC
Test Standard(s)	:	47 CFR Part 15 Subpart C, RSS-210 Issue 11 June 25, 2024, ANSI C63.10-2020, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE25081001-1E09
Issue Date	:	2025/11/03
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1.	Summary of Test Results	6
2.	General Test Information.....	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT	7
2.3.	Block diagram of EUT configuration for test.....	7
2.4.	Decision of final test mode	8
2.5.	Deviations of test standard	8
2.6.	Test environment conditions	8
2.7.	Test laboratory	8
2.8.	Measurement uncertainty	9
3.	Equipment Used During Conductive Test	10
4.	20 dB Bandwidth & 99% Bandwidth.....	11
4.1.	Block diagram of test setup	11
4.2.	Limits	11
4.3.	Test procedure	11
4.4.	Test result.....	12
4.5.	Test graphs	13
5.	Frequency Tolerance	14
5.1.	Block diagram of test setup	14
5.2.	Limit.....	14
5.3.	Test procedure	14
5.4.	Test result.....	15
6.	Antenna Requirements.....	16
6.1.	Limit.....	16
6.2.	Result	16
7.	Radiated Emission	17
7.1.	Test equipment.....	17
7.2.	Block diagram of test setup	18
7.3.	Limits	18
7.4.	Assistant equipment used for test	20
7.5.	Test procedure	20
7.6.	Test result.....	21
7.7.	Test data	22
8.	Power Line Conducted Emissions.....	27
8.1.	Test equipment.....	27
8.2.	Block diagram of test setup	27

8.3. Limits27

8.4. Assistant equipment used for test27

8.5. Test procedure27

8.6. Test result.....28

8.7. Test data29

9. Test Setup Photograph31

10. Photos of the EUT33

Test Report Declare

Applicant	:	Arashi Vision Inc.
Address of Applicant	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China
Equipment under Test	:	Insta360 Ace Pro 2 Pocket Printer
Model No.	:	CINSEBGC
Manufacturer	:	Arashi Vision Inc.
Address of Manufacturer	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China

Test Standard Used:

47 CFR Part 15 Subpart C,
RSS-210 Issue 11 June 25, 2024,
ANSI C63.10-2020,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25081001-1E09		
Date of Receipt:	2025/09/23	Date of Test:	2025/09/23 - 2025/10/29

Created: Zoe Peng	Reviewed: Chen Ziqin	Approved: Damon Hu
		
2025/11/03	2025/11/03	2025/11/03

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/11/03	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	20dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.215, RSS-Gen clause 6.7	/	Pass
2	Frequency Stability	FCC Part 15:15.225, RSS-210 B.6	/	Pass
3	Radiated Emission	47 CFR Part 15 15.209, 47 CFR Part 15 15.225, RSS-210 B.6, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
4	Power Line Conducted Emissions	47 CFR Part 15 15.207, RSS-Gen clause 8.8	/	N/A
5	Antenna Requirement	47 CFR Part 15 15.203, RSS-Gen clause 6.8	/	Pass

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

2. General Test Information

2.1. Description of EUT

EUT Name	: Insta360 Ace Pro 2 Pocket Printer
Model Number	: CINSEBGC
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V by external adapter or rechargeable battery
Hardware Version	: CINSEBGC-MBA
Software Version	: CINSEBGC-MBA_V1
Antenna Type	: Bluetooth Antenna: PCB Antenna; NFC Antenna: Coil Antenna
Max Antenna Gain(dBi)	: Bluetooth Antenna: -5.69dBi;

Radio Technology	: NFC
Operation frequency	: 13.56 MHz
Modulation	: ASK

Channel information	
Channel	Frequency (MHz)
1	13.56

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
TX	/	13.56

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	-20-+50 °C
Humidity range:	40-75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

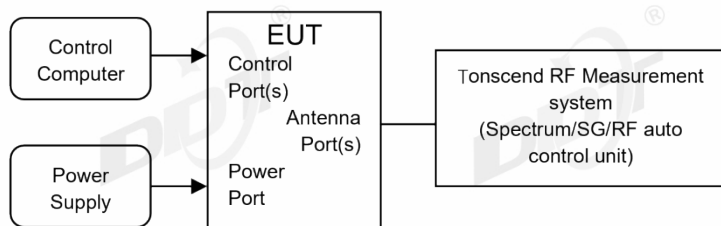
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	120259	2026/03/28
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2026/03/28
RF Control Unit	Tonscend	JS0806-2	158060010	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A
☐ RF Connected Test (RF Measurement System 2#)				
SPECTRUM ANALYZER	R&S	FSU26	201124	2025/07/08
Power Sensor	R&S	NRP-Z22	101254	2025/07/08
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A
☐ RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2025/07/08
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2025/07/08
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A
☐ RF Connected Test (RF Measurement System 4#)				
Signal & Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2025/08/25
RF Control Unit	Tonscend	JS0806-2	2118060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 20 dB Bandwidth & 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 2 times and 5 times the OBW
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold

(3) Allow the trace to stabilize, measure the 20 dB bandwidth of signal.

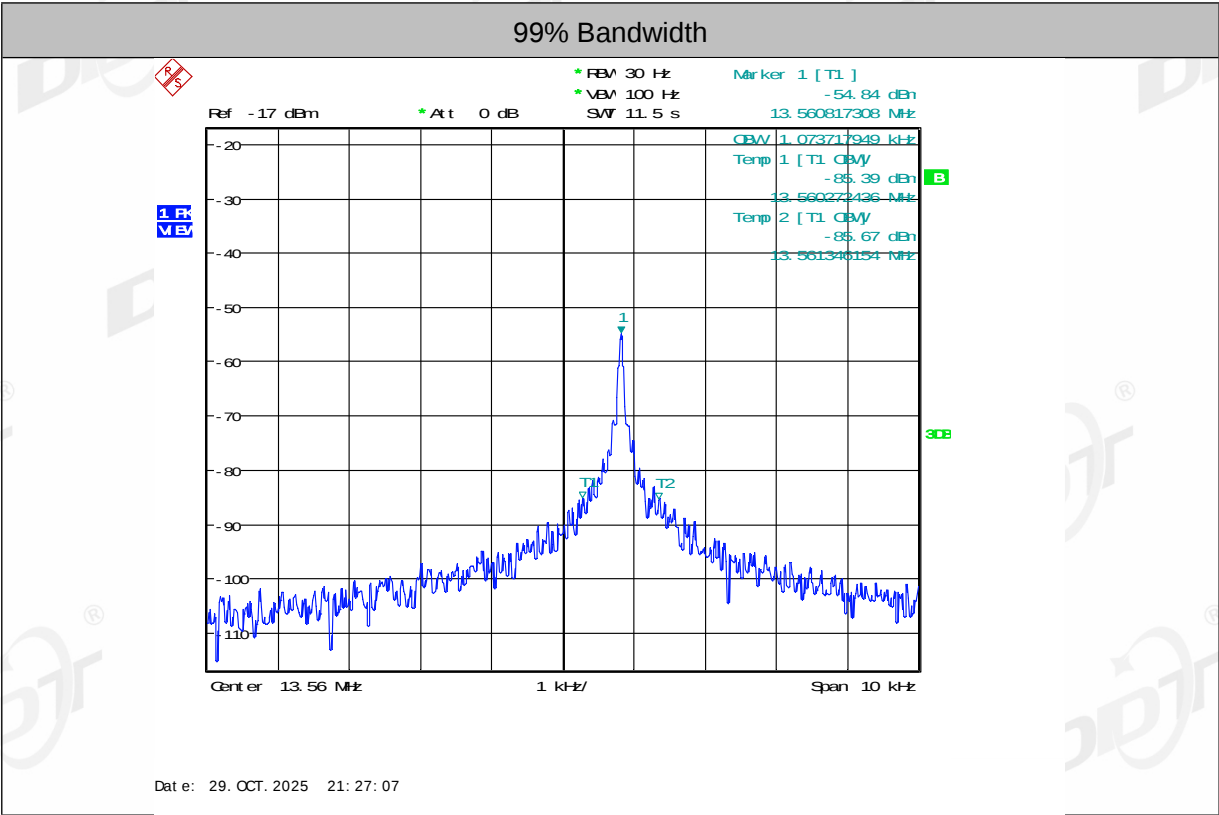
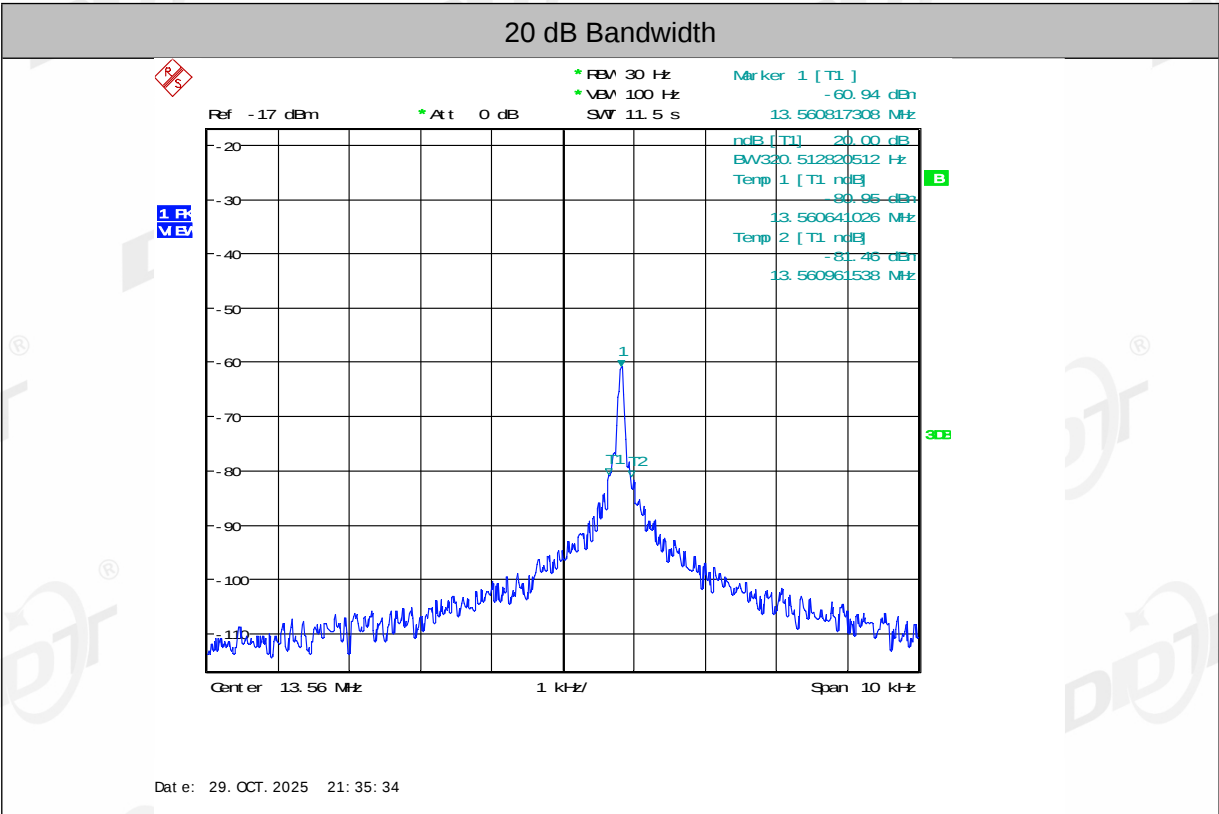
(4) Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

4.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#	
Ambient Condition:	-20~+55 °C, 55%RH	Test Date:	2025/10/29	
Test Power Supply:	Battery	Sample Number:	S25081001-008	

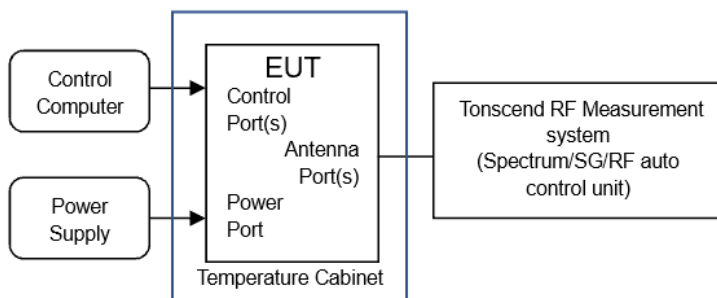
Mode	Frequency (MHz)	20 dB bandwidth Result (kHz)	99% bandwidth Result (kHz)	Verdict
ASK	13.56	0.32	1.07	Pass

4.5. Test graphs



5. Frequency Tolerance

5.1. Block diagram of test setup



5.2. Limit

As contained in § 15.225 the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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.

5.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1 kHz.

Video BW: 1 kHz.

Span: 1 MHz.

Detector: Peak.

Trace Mode: Max Hold.

(2) When the trace is complete, find the peak value of the power envelope and record the frequency.

5.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	-20~+50 °C, 55%RH	Test Date:	2025/9/28
Test Power Supply:	Battery	Sample Number:	S25081001-008

Mode	Condition		Result			Limit
	Temperature [°C]	Voltage [V]	Measured [MHz]	Tolerance [kHz]	Tolerance [ppm]	ppm
Carrier Tx Mode	NT	NV	13.56086	0.86	63.42	±100
	-20	NV	13.56088	0.88	64.90	±100
	-10	NV	13.56087	0.87	64.16	±100
	0	NV	13.56087	0.87	64.16	±100
	10	NV	13.56087	0.87	64.16	±100
	30	NV	13.56087	0.87	64.16	±100
	40	NV	13.56087	0.87	64.16	±100
	50	NV	13.56087	0.87	64.16	±100
	NT	DC 8.14V	13.56087	0.87	64.16	±100
	NT	DC 6.66V	13.56087	0.87	64.16	±100
Note: NT: 20 °C, NV: DC 7.4						

6. Antenna Requirements

6.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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 shall be considered sufficient to comply with the provisions of this section. 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.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

6.2. Result

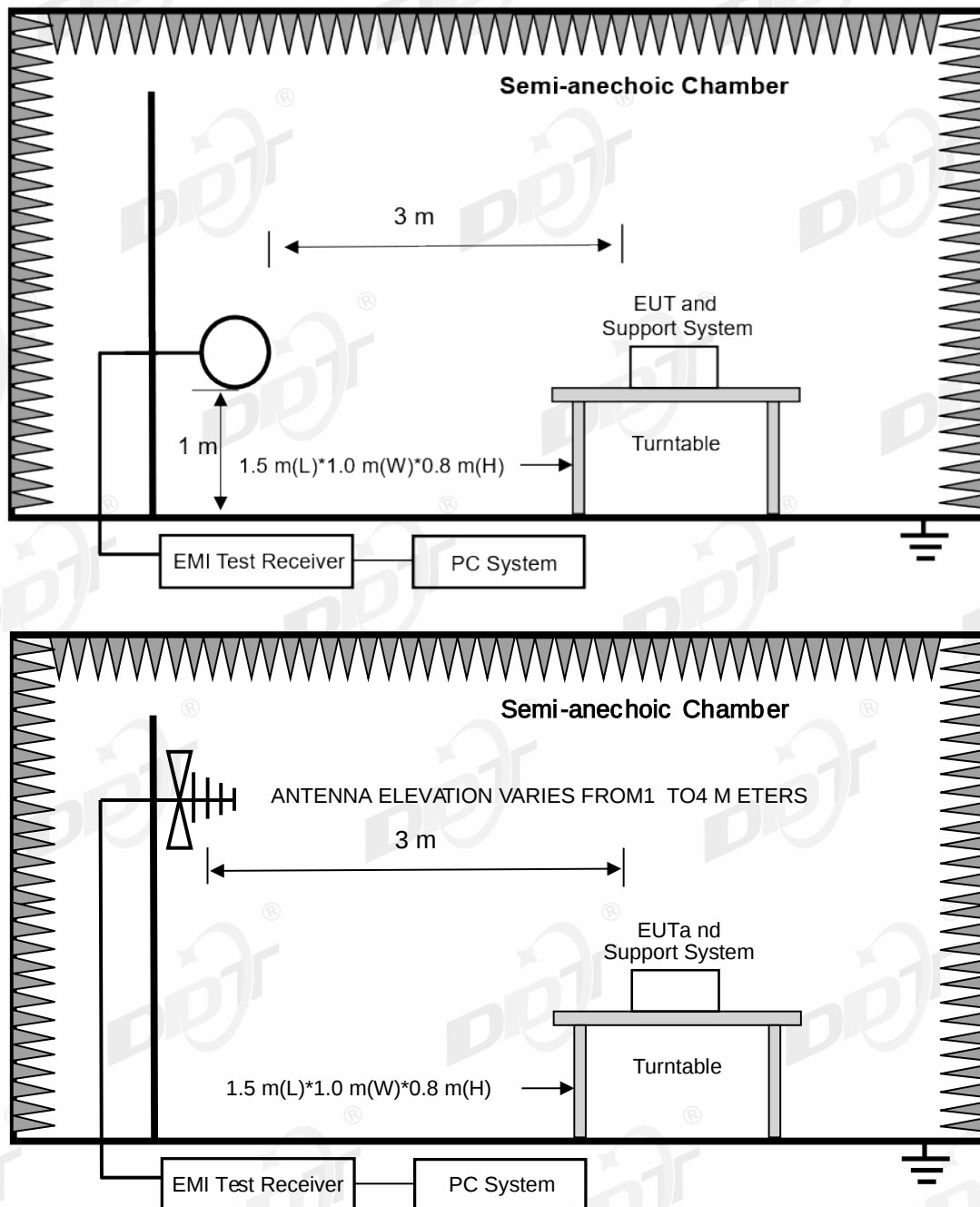
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

7. Radiated Emission

7.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

7.2. Block diagram of test setup



7.3. Limits

Operation within the band 13.110-14.010 MHz as contained in §15.225:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions

shall not exceed 106 microvolts/meter at
30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		(μV/m)	dB(μV)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 13.110	30	30	29.54
13.110 ~ 13.410	30	106	40.51
13.410~ 13.553	30	334	50.47
13.553~13.567	30	15848	84.00
13.567~13.710	30	334	50.47
13.710~14.010	30	106	40.51
14.010~30	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note:

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

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{300m}(\text{dBuV/m}) + 40\text{Log}(300m/3m) = \text{Limit}_{300m}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m) = \text{Limit}_{30m}(\text{dBuV/m}) + 40$$

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT dB(μV)/m
0.009 ~ 0.490	3	147.6-20log(F)
0.490 ~ 1.705	3	127.6-20log(F)
1.705 ~ 13.110	3	69.54
13.110 ~ 13.410	3	80.51
13.410 ~ 13.553	3	90.47
13.553 ~13.567	3	124.00
13.567 ~13.710	3	90.47
13.710 ~14.010	3	80.51
14.010~30	3	69.54
30 ~88	3	40.00
88 ~216	3	43.50

216 ~960	3	46.00
960 ~ 1000	3	54.00

7.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

7.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

- (5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

- (7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported

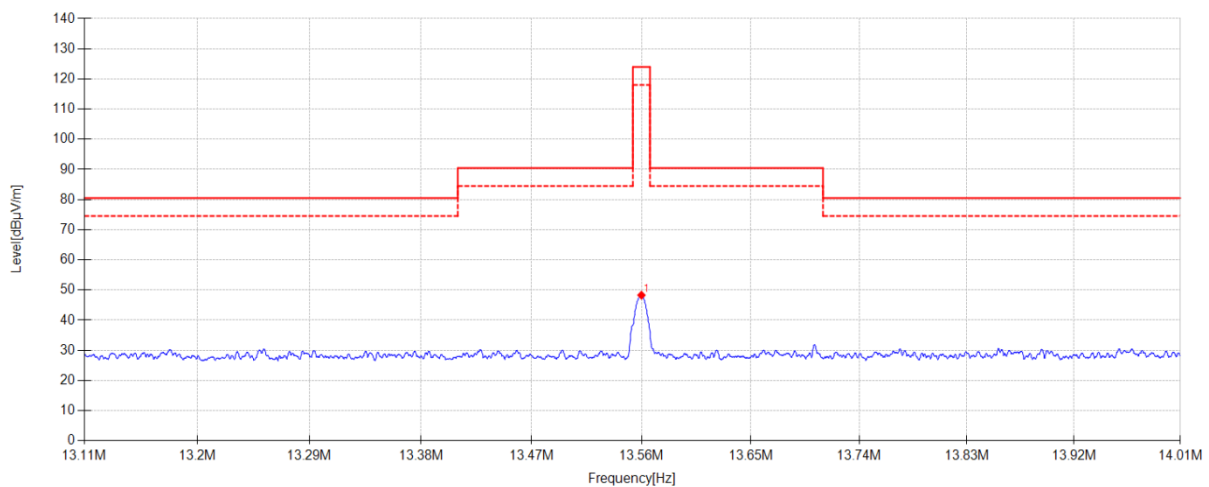
7.6. Test result

PASS. All mode have been tested, only recorded the worst case. (See below detailed test result)

7.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-09-23 **Tested By:** Nan Zhong
EUT: Insta360 Ace Pro 2 Pocket Printer **Model Number:** CINSEBGC
Test Mode: TX NFC Mode **Power Supply:** BATTERY
Condition: Temp:23.2°C;Humi:53.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25081001-1E\FCC BELOW1G NFC\20250923-083205_H
Memo: Sample Numbel:S25081001-019



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	13.560	57.24	19.93	3.43	-32.30	48.30	124.00	75.70	PK	X

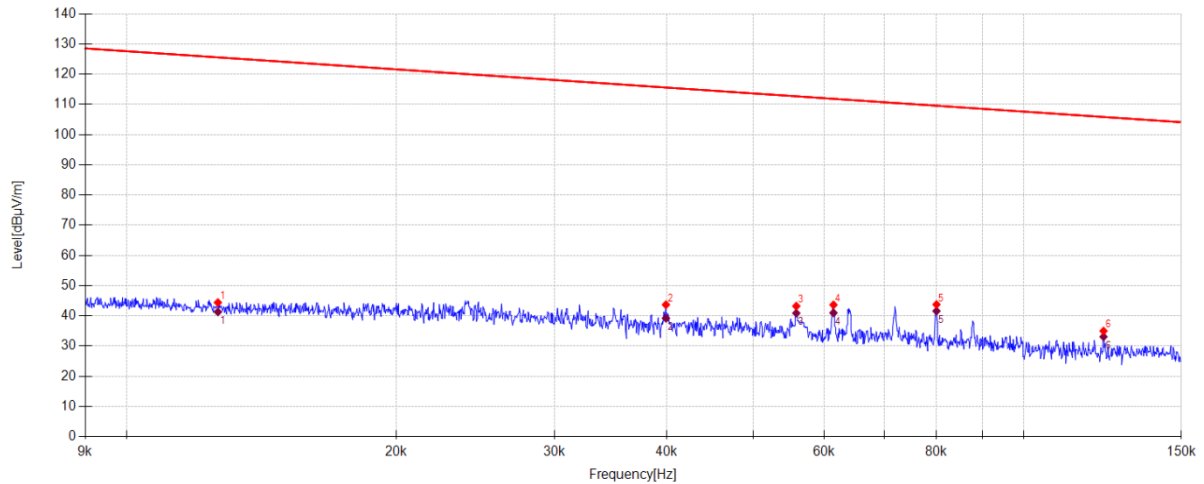
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-09-26
EUT: Insta360 Ace Pro 2 Pocket Printer
Test Mode: TX NFC Mode
Condition: Temp:23.2°C;Humi:53.2%
File Path: d:\ts\2025 report date\Q25081001-1E\FCC BELOW1G NFC\20250926-081010_V
Memo: Sample Numble:S25081001-019

Tested By: Nan Zhong
Model Number: CINSEBGC
Power Supply: BATTERY
Test Site: DDT 3# Chamber



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.013	53.49	20.22	3.17	-32.50	44.38	125.56	81.18	PK	X
2	0.040	52.76	20.25	3.18	-32.53	43.66	115.57	71.91	PK	X
3	0.056	52.39	20.17	3.19	-32.55	43.20	112.66	69.46	PK	X
4	0.061	52.85	20.14	3.19	-32.56	43.62	111.83	68.21	PK	X
5	0.080	52.91	20.20	3.19	-32.58	43.72	109.54	65.82	PK	X
6	0.123	43.98	20.40	3.19	-32.60	34.97	105.81	70.84	PK	X

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	0.013	50.38	20.22	3.17	41.27	125.59	84.32	AV	X	
2	0.040	48.29	20.25	3.18	39.19	115.58	76.39	AV	X	
3	0.056	50.06	20.17	3.19	40.87	112.67	71.80	AV	X	
4	0.061	50.19	20.14	3.19	40.96	111.84	70.88	AV	X	
5	0.080	50.76	20.20	3.19	41.57	109.54	67.97	AV	X	
6	0.123	42.06	20.40	3.19	33.05	105.81	72.76	AV	X	

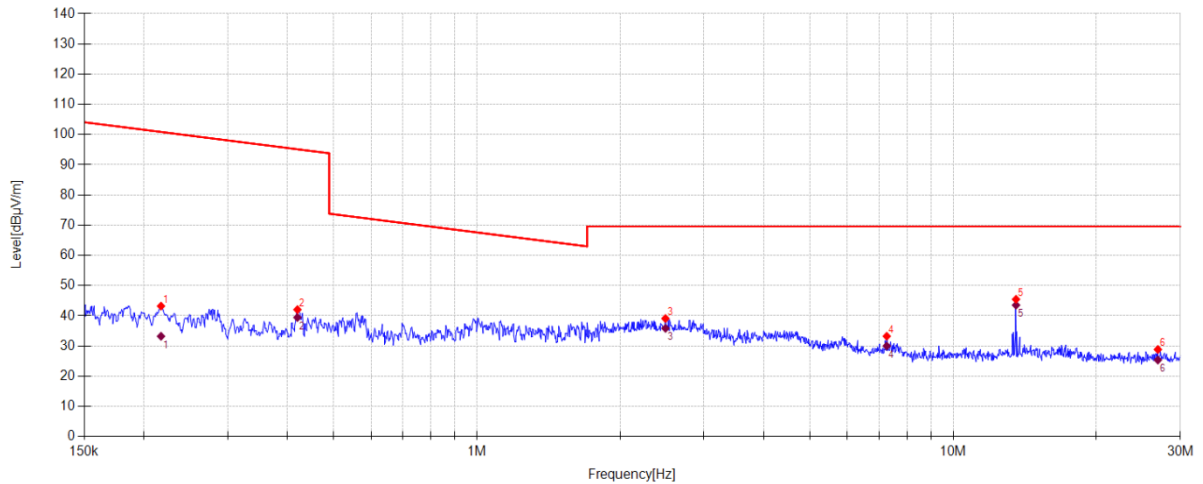
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-09-26
EUT: Insta360 Ace Pro 2 Pocket Printer
Test Mode: TX NFC Mode
Condition: Temp:23.2°C;Humi:53.2%
File Path: d:\ts\2025 report date\Q25081001-1E\FCC BELOW1G NFC\20250926-081123_V
Memo: Sample Numble:S25081001-019

Tested By: Nan Zhong
Model Number: CINSEBGC
Power Supply: BATTERY
Test Site: DDT 3# Chamber



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	0.217	52.33	20.28	3.19	-32.60	43.20	100.86	57.66	PK	X
2	0.420	51.23	20.22	3.19	-32.60	42.04	95.14	53.10	PK	X
3	2.490	48.26	20.15	3.23	-32.55	39.09	69.54	30.45	PK	X
4	7.257	42.40	19.90	3.31	-32.39	33.22	69.54	36.32	PK	X
5	13.556	54.40	19.93	3.43	-32.30	45.46	69.54	24.08	PK	X
6	26.914	37.67	19.81	3.67	-32.30	28.85	69.54	40.69	PK	X

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	0.217	42.34	20.28	3.19	33.21	100.86	67.65	AV	X	
2	0.420	48.64	20.22	3.19	39.45	95.13	55.68	AV	X	
3	2.490	45.00	20.15	3.23	35.83	69.54	33.71	AV	X	
4	7.257	39.18	19.90	3.31	30.00	69.54	39.54	AV	X	
5	13.556	52.46	19.93	3.43	43.52	69.54	26.02	AV	X	
6	26.914	34.19	19.81	3.67	25.37	69.54	44.17	AV	X	

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: 9kHz-150kHz RBW: 300Hz, VBW: 1 kHz, Sweep time: auto.
150kHz-30MHz RBW: 10kHz, VBW: 30kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-09-23

Tested By:

Nan Zhong

EUT:

Insta360 Ace Pro 2 Pocket Printer

Model Number:

CINSEBGC

Test Mode:

TX NFC Mode

Power Supply:

BATTERY

Condition:

Temp:23.2°C;Humi:53.2%

Test Site:

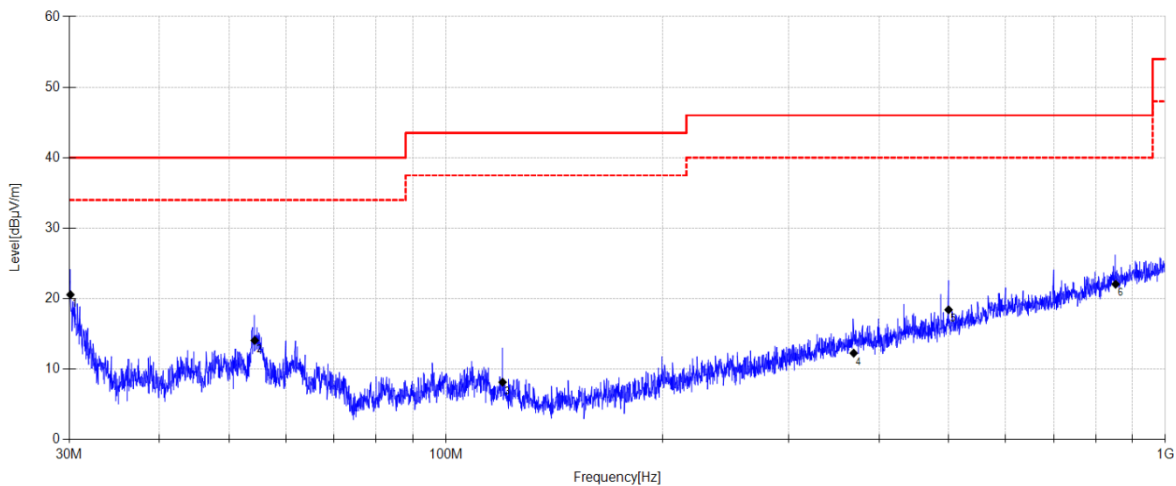
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25081001-1E\FCC BELOW1G NFC\9

Memo:

Sample Numbler:S25081001-019



Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.105	38.66	10.48	3.72	20.56	40.00	19.44	QP	Horizontal
2	54.293	29.26	13.20	3.91	14.07	40.00	25.93	QP	Horizontal
3	119.991	26.51	9.70	4.25	8.14	43.50	35.36	QP	Horizontal
4	368.961	23.78	15.52	5.43	12.26	46.00	33.74	QP	Horizontal
5	499.844	27.83	17.28	5.91	18.42	46.00	27.58	QP	Horizontal
6	852.855	25.62	21.64	6.97	22.05	46.00	23.95	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-09-23

Tested By:

Nan Zhong

EUT:

Insta360 Ace Pro 2 Pocket Printer

Model Number:

CINSEBGC

Test Mode:

TX NFC Mode

Power Supply:

BATTERY

Condition:

Temp:23.2°C;Humi:53.2%

Test Site:

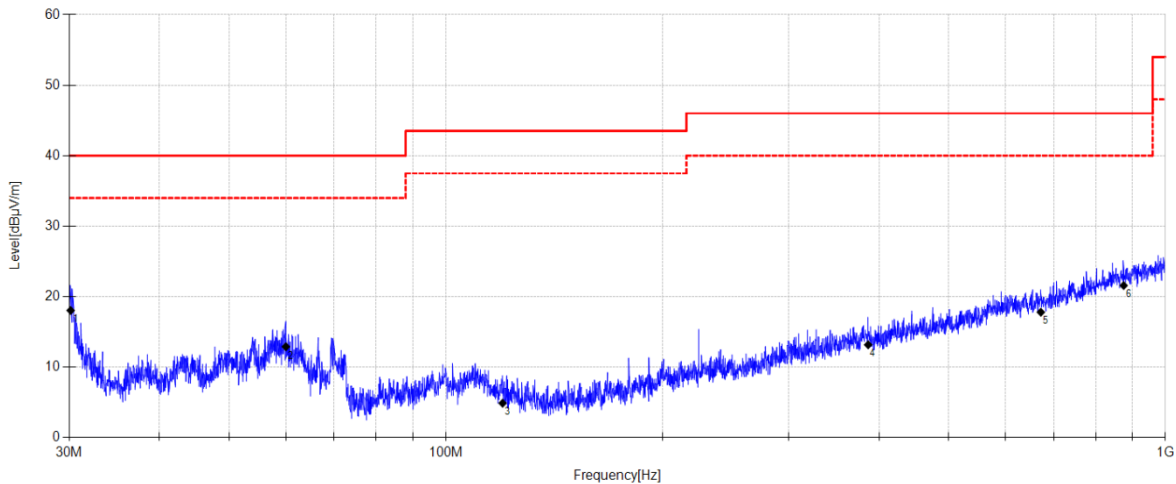
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25081001-1E\FCC BELOW1G NFC\10

Memo:

Sample Numbel:S25081001-019



Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.126	36.15	10.47	3.72	18.04	40.00	21.96	QP	Vertical
2	59.977	28.84	12.40	3.95	12.89	40.00	27.11	QP	Vertical
3	119.991	23.25	9.70	4.25	4.88	43.50	38.62	QP	Vertical
4	386.436	24.55	15.61	5.50	13.17	46.00	32.83	QP	Vertical
5	671.484	24.77	19.56	6.49	17.79	46.00	28.21	QP	Vertical
6	875.270	25.31	21.30	7.02	21.58	46.00	24.42	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

8. Power Line Conducted Emissions

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI	DDT-ZC00235	2026/07/06
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2026/07/06
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2026/07/06
Pulse Limiter	SCHWARZBEC K	ESH3-Z2	DDT-ZC00539	2026/07/06
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2026/07/06
EMI Test Software	Audix/TW	e3	DDT-ZC01252	/

8.2. Block diagram of test setup

8.3. Limits

Frequency	Quasi-Peak Level dB(uV)	Average Level dB(uV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	HUAWEI	HW-100400C01	Huawei Fast Charge 2 #	Input: 100-240V~ 50/60Hz, Output: 5V/2A or 9V/2A or 10V/4A MAX

8.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, 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.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

8.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means Peak detection; “-----” means Average detection.

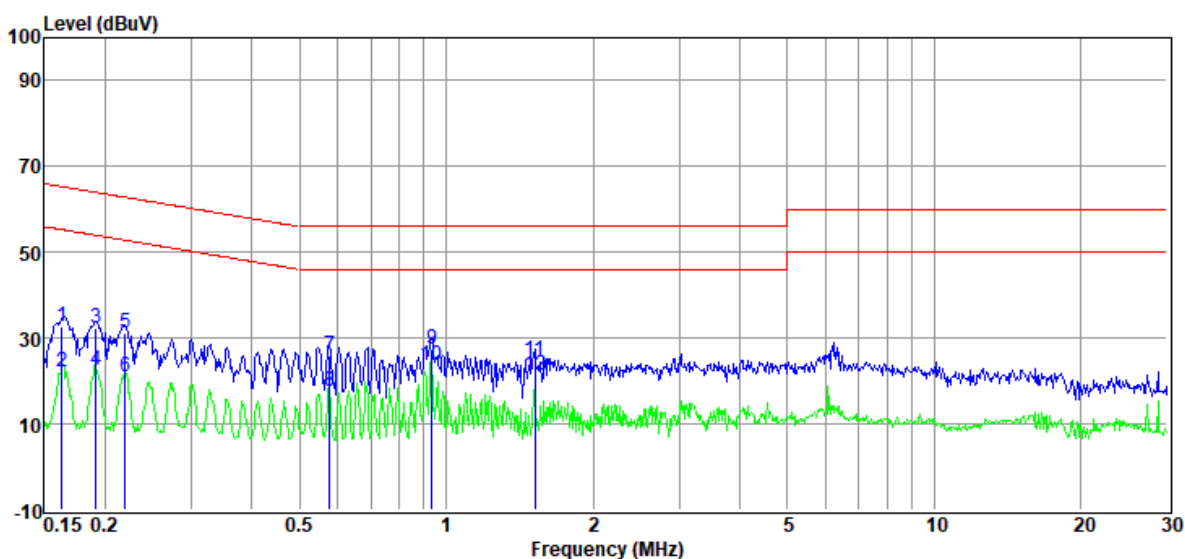
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

8.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2025 CE report data\Q25081001-1E\1013.EM6**
Test Date : 2025-10-13 **Tested By** : Alex Liu
EUT : Insta360 Ace Pro 2 Pocket Printer **Model Number** : CINSEBGC
Power Supply : AC 120V/60Hz **Test Mode** : NFC mode
Condition : TEMP:22.1°C, RH:61.2% **LISN** : 2025 1# 216/LINE
Memo : S25081001-009

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Margin (dB)	Detector	Phase
1	0.16	12.83	9.84	0.05	9.89	32.61	65.30	32.69	QP	LINE
2	0.16	2.22	9.84	0.05	9.89	22.00	55.30	33.30	Average	LINE
3	0.19	12.66	9.83	0.06	9.89	32.44	63.98	31.54	QP	LINE
4	0.19	2.55	9.83	0.06	9.89	22.33	53.98	31.65	Average	LINE
5	0.22	11.54	9.82	0.06	9.89	31.31	62.83	31.52	QP	LINE
6	0.22	1.39	9.82	0.06	9.89	21.16	52.83	31.67	Average	LINE
7	0.58	5.92	9.90	0.10	9.89	25.81	56.00	30.19	QP	LINE
8	0.58	-2.20	9.90	0.10	9.89	17.69	46.00	28.31	Average	LINE
9	0.93	7.57	9.89	0.14	9.90	27.50	56.00	28.50	QP	LINE
10	0.93	3.87	9.89	0.14	9.90	23.80	46.00	22.20	Average	LINE
11	1.52	4.84	9.86	0.16	9.89	24.75	56.00	31.25	QP	LINE
12	1.52	1.32	9.86	0.16	9.89	21.23	46.00	24.77	Average	LINE

Note:

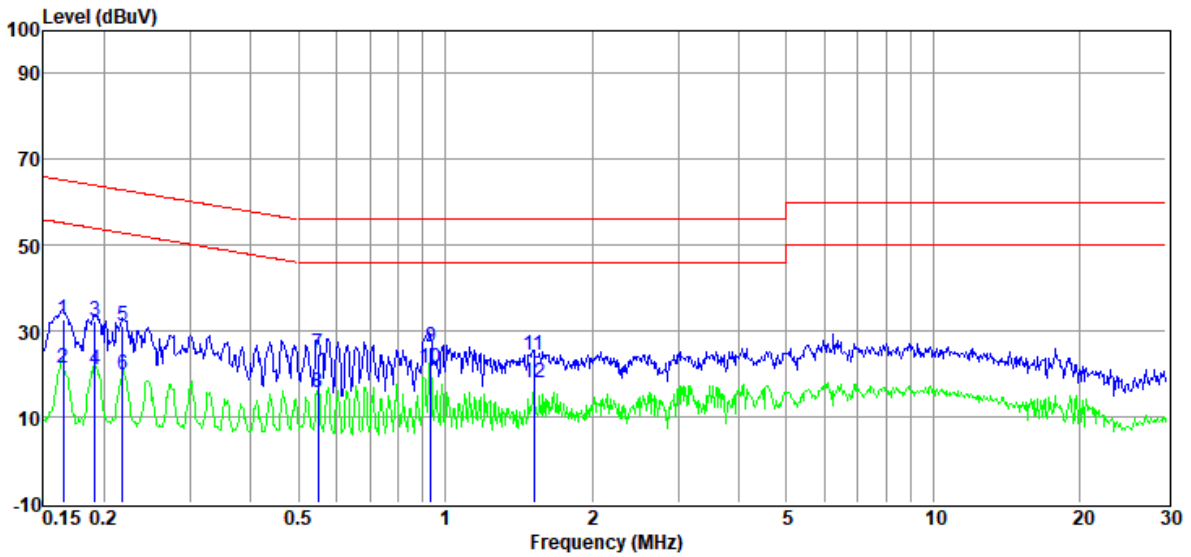
1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room
Test Date : 2025-10-13
EUT : Insta360 Ace Pro 2 Pocket Printer
Power Supply : AC 120V/60Hz
Condition : TEMP:22.1°C, RH:61.2%
Memo : S25081001-009

D:\2025 CE report data\Q25081001-1E\1013.EM6
Tested By : Alex Liu
Model Number : CINSEBGC
Test Mode : NFC mode
LISN : 2025 1# 216/NEUTRAL

Data: 12



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Margin	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.17	13.24	9.70	0.05	9.89	32.88	65.21	32.33	QP	NEUTRAL
2	0.17	1.69	9.70	0.05	9.89	21.33	55.21	33.88	Average	NEUTRAL
3	0.19	12.44	9.79	0.06	9.89	32.18	63.98	31.80	QP	NEUTRAL
4	0.19	1.42	9.79	0.06	9.89	21.16	53.98	32.82	Average	NEUTRAL
5	0.22	11.39	9.83	0.06	9.89	31.17	62.88	31.71	QP	NEUTRAL
6	0.22	-0.09	9.83	0.06	9.89	19.69	52.88	33.19	Average	NEUTRAL
7	0.55	4.79	9.89	0.10	9.89	24.67	56.00	31.33	QP	NEUTRAL
8	0.55	-4.11	9.89	0.10	9.89	15.77	46.00	30.23	Average	NEUTRAL
9	0.93	6.19	9.90	0.14	9.90	26.13	56.00	29.87	QP	NEUTRAL
10	0.93	1.60	9.90	0.14	9.90	21.54	46.00	24.46	Average	NEUTRAL
11	1.52	4.37	9.83	0.16	9.89	24.25	56.00	31.75	QP	NEUTRAL
12	1.52	-1.87	9.83	0.16	9.89	18.01	46.00	27.99	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

10. Photos of the EUT

Please refer to DDT-Q25081001-2E appendix I

-----End Report-----