

Prüfbericht-Nr.: Test report no.:	CN268XZX 004	Auftrags-Nr.: Order no.:	27201377	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-01-09	
Auftraggeber: Client:	Shining 3D Tech Co., Ltd. No. 1398, Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, P.R. China			
Prüfgegenstand: Test item:	3D Printer			
Bezeichnung / Typ-Nr.: Identification / Type no.:	AccuFab-Aris			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.225 RSS-210 Issue 11 June 2024 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-03-11	Refer to Photos document		
Prüfmuster-Nr.: Test sample no.:	A004181894-001 A004195427-001~002			
Prüfzeitraum: Testing period:	2026-03-24 - 2026-04-08			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-06-11	Ausstellungsdatum: Issue date:		2026-06-11
Signed by: Bell Hu		Signed by: Jonathan Li		
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AMG4-ARIS, IC: 24652-ARIS, HVIN: AccuFab-Aris PMN: AccuFab-Aris			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN268XZX 004
Test report no.:

Seite 2 von 17
Page 2 of 17

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB AND 99% BANDWIDTH

RESULT: Pass

5.1.3 FREQUENCY STABILITY

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION (IN-BAND & OUT-BAND EMISSIONS)

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	6
2.1	TEST FACILITIES	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	6
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY.....	7
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	8
3.5	SUBMITTED DOCUMENTS.....	9
4	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION	10
4.2	TEST OPERATION AND TEST SOFTWARE.....	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	10
4.5	TEST SETUP DIAGRAM	11
5	TEST RESULTS	12
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	12
5.1.1	<i>Antenna Requirement</i>	<i>12</i>
5.1.2	<i>20dB and 99% Bandwidth</i>	<i>13</i>
5.1.3	<i>Frequency Stability.....</i>	<i>14</i>
5.1.4	<i>Radiated Spurious Emission (In-Band & Out-Band Emissions)</i>	<i>15</i>
5.1.5	<i>Conducted Emission on AC Mains.....</i>	<i>16</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	17
7	LIST OF TABLES.....	17

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of NFC.

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Certificate Number: 5162.01

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Signal Analyzer	R&S	FSV 40	101441	2025-09-23	2026-09-22
OSP	R&S	OSP 150	101017	2025-10-30	2026-10-29
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A	N/A
Power Meter	R&S	NRP2	107105	2025-10-30	2026-10-29
Wideband Power Sensor	R&S	NRP-Z81	105677	2025-09-23	2026-09-22
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13
Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
EMI Test Receiver	R&S	ESR3	102428	2026-07-18	
Artificial Mains Network	R&S	ENV432	101546	2027-02-03	
Artificial Mains Network	R&S	ENV432	101411	2026-07-18	

EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	N/A	N/A
---------------------	-----	---------------------	-----	-----

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is 3D Printer, it supports NFC, 5GHz Wi-Fi and 2.4GHz Wi-Fi wireless technologies.
This report is for NFC operation only.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	3D Printer
Type Designation:	AccuFab-Aris
Operating Voltage:	100-240V AC; 50/60Hz
Testing Voltage:	AC 120V, 60Hz
FCC ID:	2AMG4-ARIS
IC:	24652-ARIS
PMN:	AccuFab-Aris
HVIN:	AccuFab-Aris
Technical Specification of NFC	
Operating Frequency:	13.56 MHz
Type of Modulation:	ASK
Antenna Type:	Coil Antenna
Number of Antenna:	1

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, NFC transmitting mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- FCC/IC Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *AccuFab-Aris* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

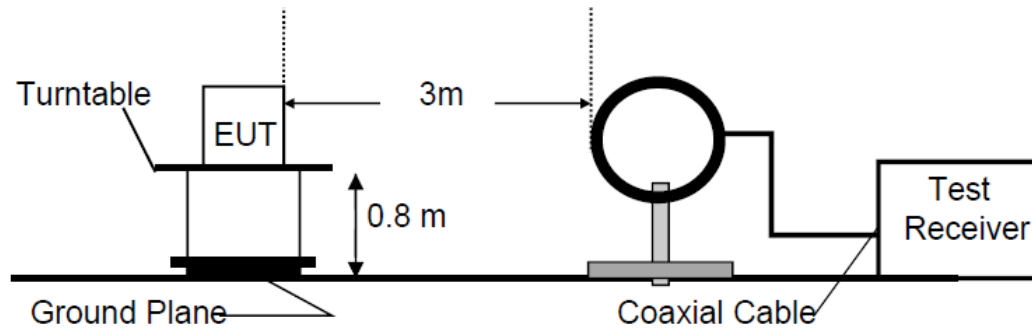


Diagram of Measurement Configuration for Radiation Test (30MHz to 1GHz)

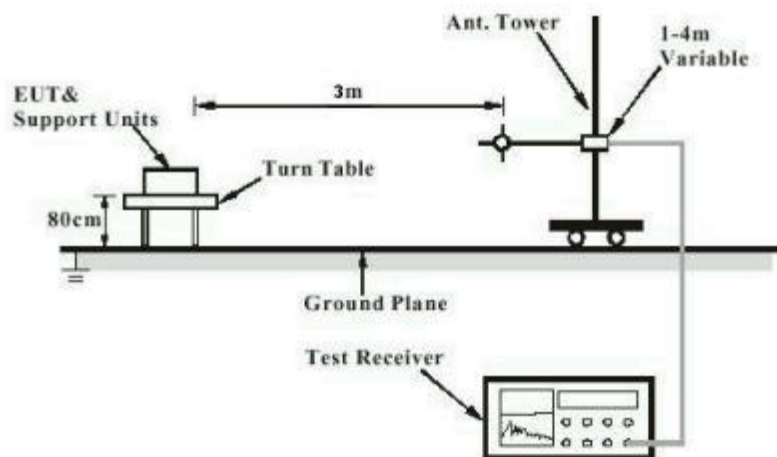
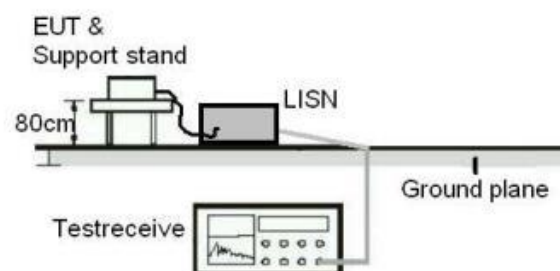


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a Coil Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Prüfbericht - Nr.: **CN268XZX 004**
Test Report No.:Seite 13 von 17
Page 13 of 17**5.1.2 20dB and 99% Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.215 (c) RSS-Gen Section 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-04-07
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.3 Frequency Stability

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.225 (e) RSS-210, Annex B.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: $\pm 0.01\%$ of Operating Frequency (1.356 kHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-04-07
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN268XZX 004
Test Report No.:

Seite 15 von 17
Page 15 of 17

5.1.4 Radiated Spurious Emission (In-Band & Out-Band Emissions)

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.225 (a)(b)(c)(d) FCC Part 15.209 & 15.205 RSS-210 Section B.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Refer to FCC Part 15.209(a) RSS-210 Section B.6 & RSS-Gen Section 8.9
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-04-07 to 2026-04-08
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN268XZX 004**
Test Report No.:Seite 16 von 17
Page 16 of 17

5.1.5 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-03-24
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: Measurement Uncertainty.....	7
Table 3: Technical Specification of EUT	8
Table 4: List of Accessories and Auxiliary Equipment.....	10

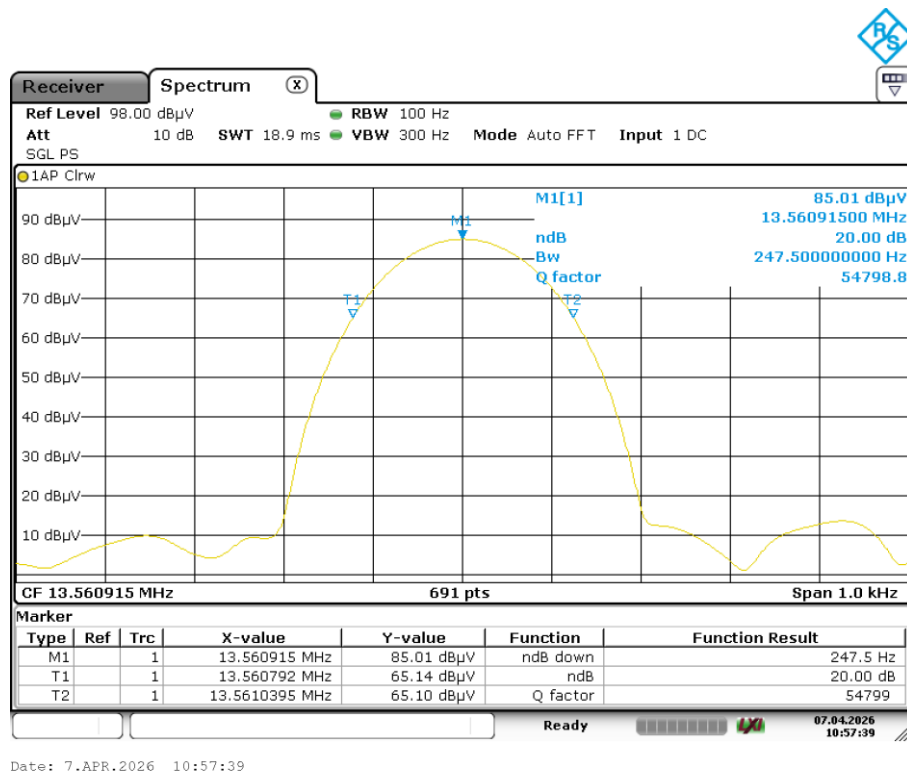
Appendix A: Test Results of NFC

APPENDIX A: TEST RESULTS OF NFC	1
APPENDIX A.1: TEST RESULTS OF 20DB BANDWIDTH	2
<i>Operating mode.....</i>	<i>2</i>
APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH.....	3
<i>Operating mode.....</i>	<i>3</i>
APPENDIX A.3: TEST RESULTS OF FREQUENCY STABILITY	4
APPENDIX A.4: TEST RESULTS OF RADIATED SPURIOUS EMISSION (IN-BAND & OUT-BAND EMISSIONS)	5
<i>Fundamental.....</i>	<i>5</i>
<i>9kHz – 30MHz.....</i>	<i>8</i>
<i>30MHz - 1GHz.....</i>	<i>11</i>
<i>Co-location Mode (Wi-Fi+NFC)</i>	<i>12</i>
APPENDIX A.5: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	13

Appendix A.1: Test Results of 20dB Bandwidth

Operating mode

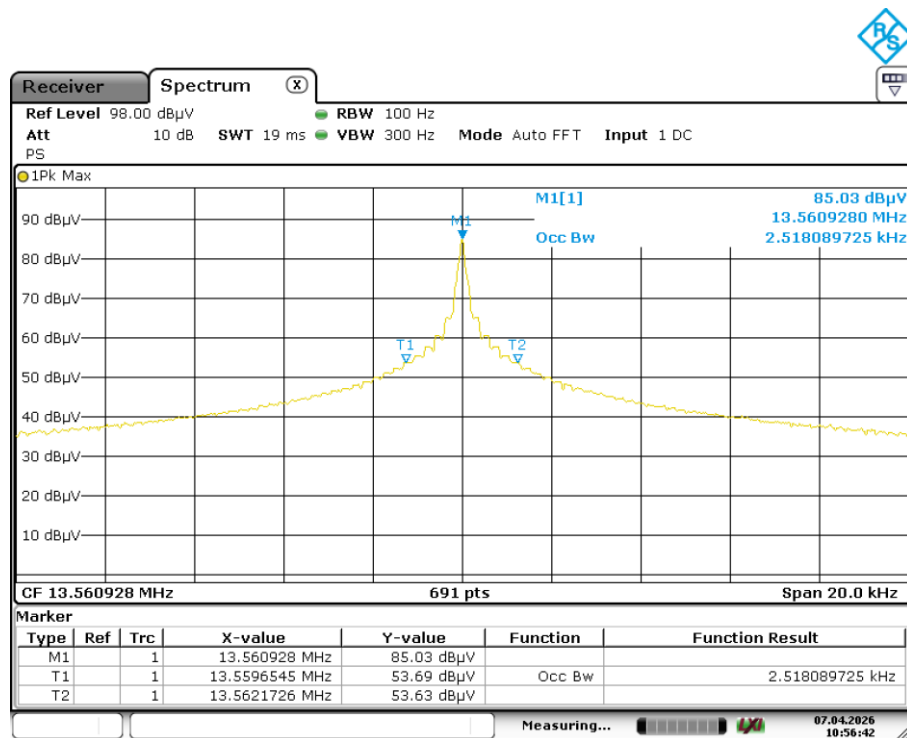
Test Frequency (MHz)	20dB Bandwidth (Hz)	F _L (MHz)	F _H (MHz)	Limit (MHz)	Result
13.56	247.5	13.560792	13.5610395	13.553-13.567	Pass



Appendix A.2: Test Results of 99% Bandwidth

Operating mode

Test Frequency (MHz)	99% Bandwidth (kHz)	F _L (MHz)	F _H (MHz)	Limit (MHz)	Result
13.56	2.518	13.5596545	13.5621726	13.553-13.567	Pass



Date: 7.APR.2026 10:56:42

Appendix A.3: Test Results of Frequency Stability

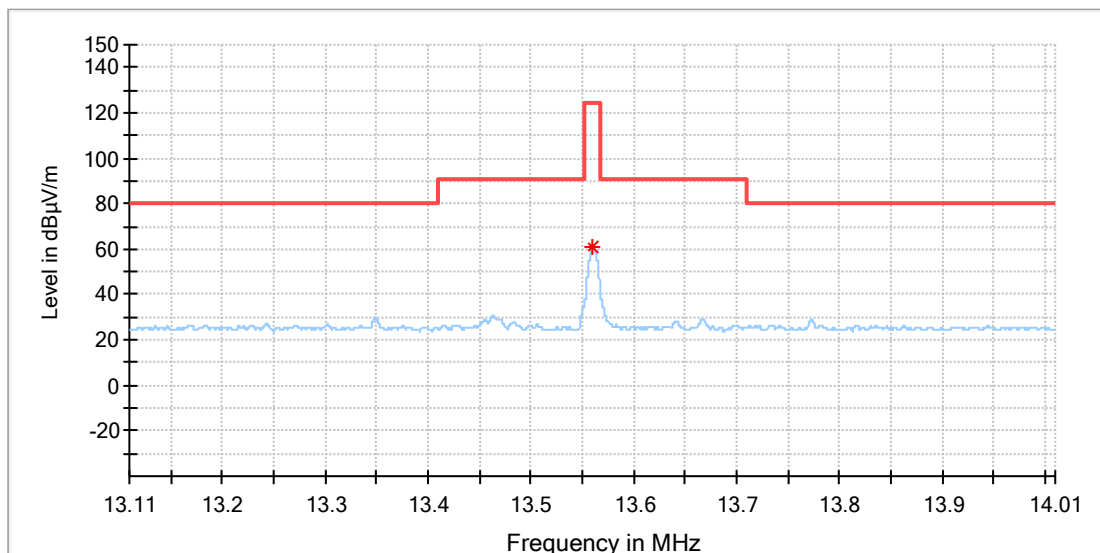
Test Frequency (MHz)	Test Conditions		Test Results (kHz)	Deviation (kHz)	Limit (kHz)	Result
	Temp(°C)	Volt(V AC)				
13.56	-20	120	13560.152	0.152	±0.01% (1.356 kHz)	Pass
	-10	120	13560.271	0.271		Pass
	0	120	13560.023	0.023		Pass
	10	120	13560.064	0.064		Pass
	20	120	13560.105	0.105		Pass
	30	120	13560.137	0.137		Pass
	40	120	13560.116	0.116		Pass
	50	120	13560.183	0.183		Pass
	20	102	13560.098	0.098		Pass
		138	13560.107	0.107		Pass
Note: Deviation (kHz) = (Test Result-13.56MHz)*1000						

Appendix A.4: Test Results of Radiated Spurious Emission (In-Band & Out-Band Emissions)

Fundamental

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	NFC
Order No/Sample No:	27201377/A004195427-001
Test Voltage:	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.225
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

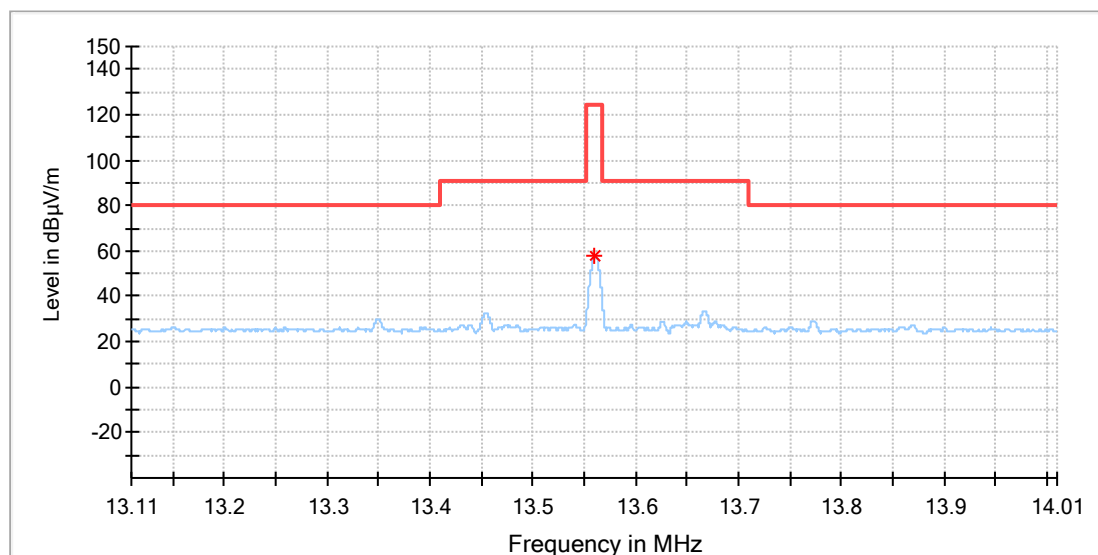
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13.560927	60.67	124.00	63.33	100.0	X	76.0	20.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: NFC
Order No/Sample No: 27201377/A004195427-001
Test Voltage: AC 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.225
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

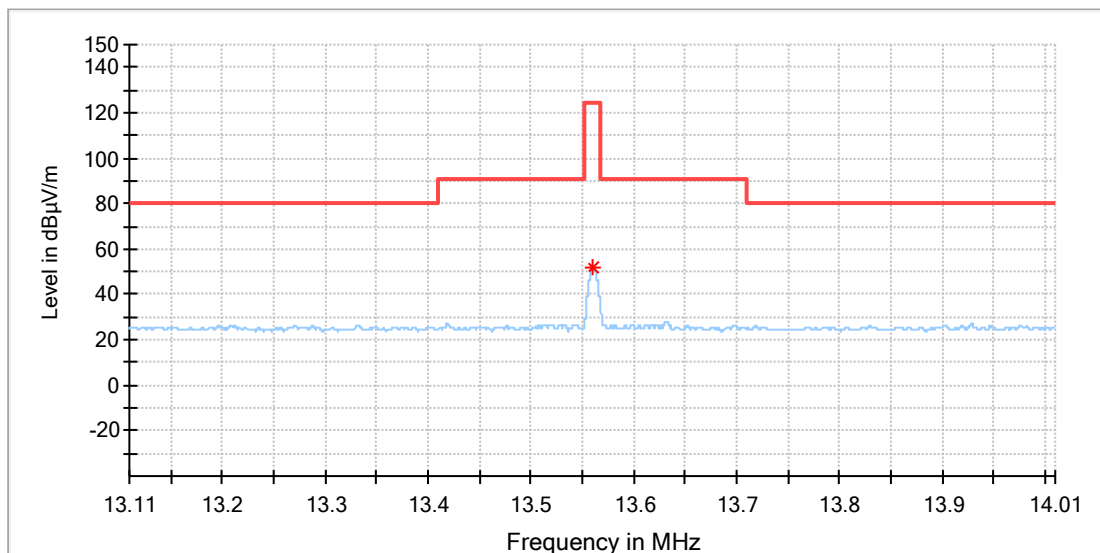
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13.560927	58.46	124.00	65.54	100.0	Y	329.0	20.0

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: NFC
Order No/Sample No: 27201377/A004195427-001
Test Voltage: AC 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.225
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
13.561059	51.44	124.00	72.56	100.0	Z	56.0	20.0

Final Result

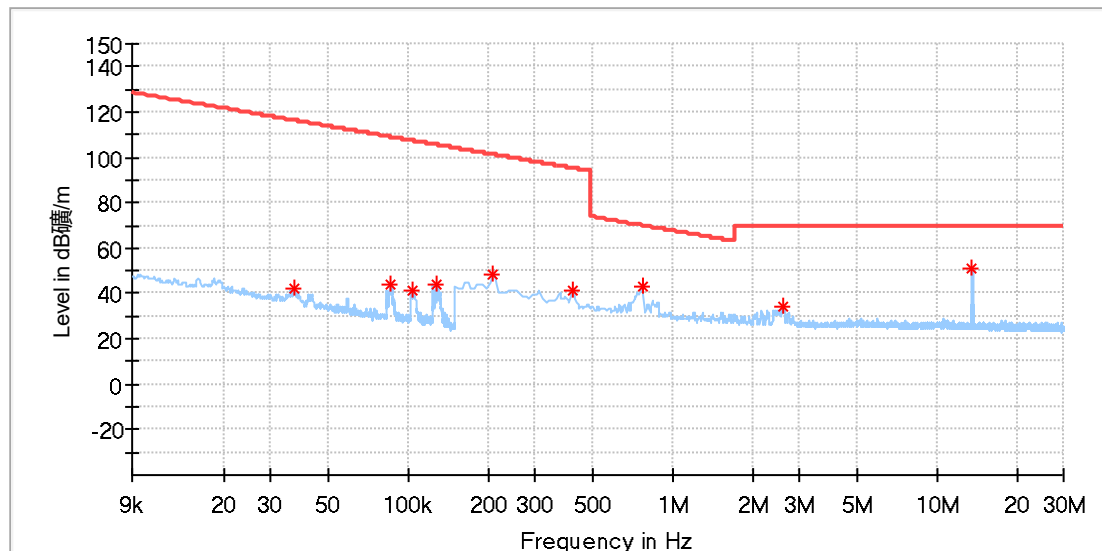
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

9kHz – 30MHz

Note: The highest waveform in the figure is Fundamental and/or harmonics frequency.

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	NFC
Order No/Sample No:	27201377/A004195427-001
Test Voltage:	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.225
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

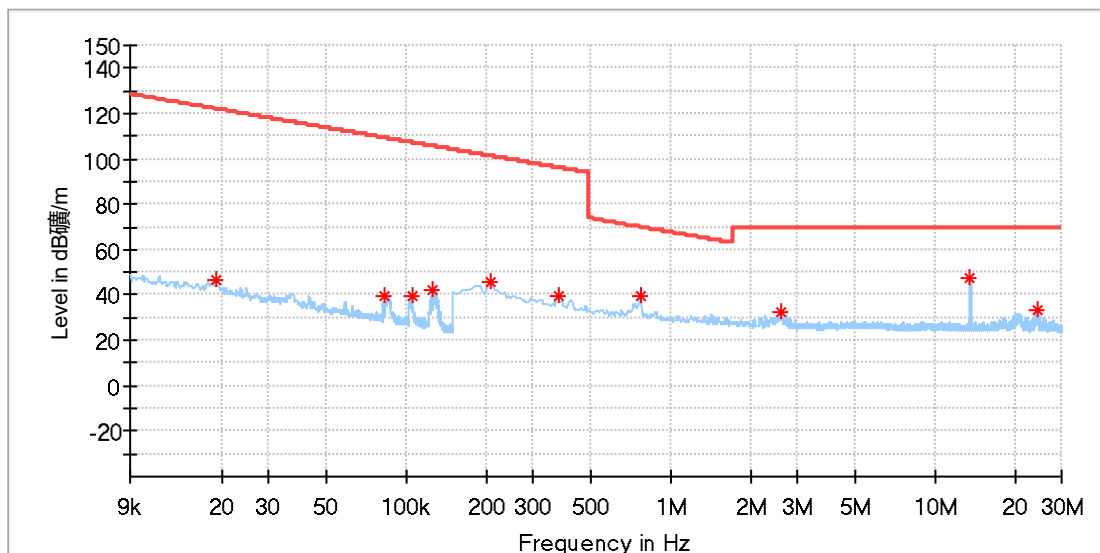
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.037099	42.38	116.20	73.82	100.0	X	236.0	19.9
0.085241	43.62	108.98	65.37	100.0	X	347.0	19.9
0.104276	41.26	107.23	65.98	100.0	X	194.0	19.9
0.128044	44.35	105.45	61.10	100.0	X	347.0	19.9
0.207066	48.63	101.28	52.64	100.0	X	281.0	19.8
0.417772	41.20	95.18	53.99	100.0	X	101.0	19.9
0.764559	42.90	69.95	27.04	100.0	X	268.0	19.9
2.612625	33.91	69.50	35.59	100.0	X	301.0	20.0
13.560552	51.01	69.50	18.49	100.0	X	66.0	20.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: NFC
Order No/Sample No: 27201377/A004195427-001
Test Voltage: AC 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.225
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

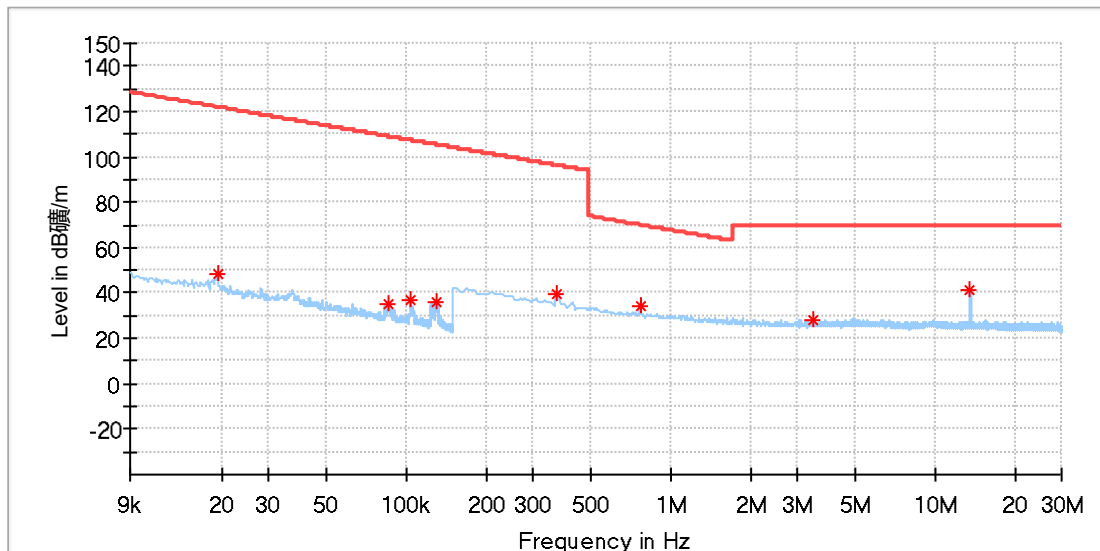
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.019071	46.54	121.98	75.44	100.0	Y	115.0	19.9
0.082824	39.76	109.23	69.47	100.0	Y	65.0	19.9
0.104578	39.35	107.21	67.85	100.0	Y	42.0	19.9
0.124318	42.01	105.71	63.70	100.0	Y	65.0	19.9
0.207066	45.44	101.28	55.83	100.0	Y	0.0	19.8
0.373875	39.54	96.15	56.61	100.0	Y	329.0	19.9
0.764559	39.94	69.95	30.00	100.0	Y	356.0	19.9
2.612625	32.50	69.50	37.00	100.0	Y	167.0	20.0
13.560552	47.77	69.50	21.73	100.0	Y	337.0	20.3
24.218757	33.57	69.50	35.93	100.0	Y	150.0	20.5

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: NFC
Order No/Sample No: 27201377/A004195427-001
Test Voltage: AC 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.225
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.019273	48.69	121.89	73.20	100.0	Z	0.0	19.9
0.085644	35.26	108.94	73.68	100.0	Z	329.0	19.9
0.102866	36.45	107.35	70.90	100.0	Z	298.0	19.9
0.129253	35.98	105.37	69.39	100.0	Z	332.0	19.9
0.369485	39.37	96.25	56.88	100.0	Z	128.0	19.9
0.764559	34.14	69.95	35.81	100.0	Z	58.0	19.9
3.473007	27.93	69.50	41.57	100.0	Z	277.0	20.1
13.560552	41.49	69.50	28.01	100.0	Z	55.0	20.3

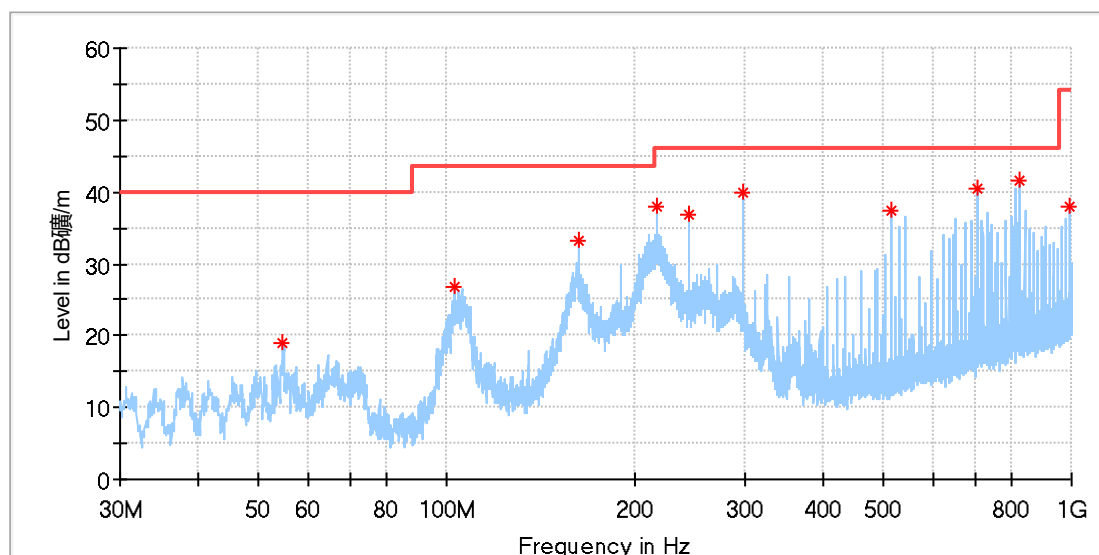
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

30MHz - 1GHz

EUT Information

EUT Name:	3D Printer
Model:	AccuFab-Aris
Test Mode:	NFC
Order No/Sample No:	27201377/A004195427-001
Test Voltage:	AC 120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.225
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

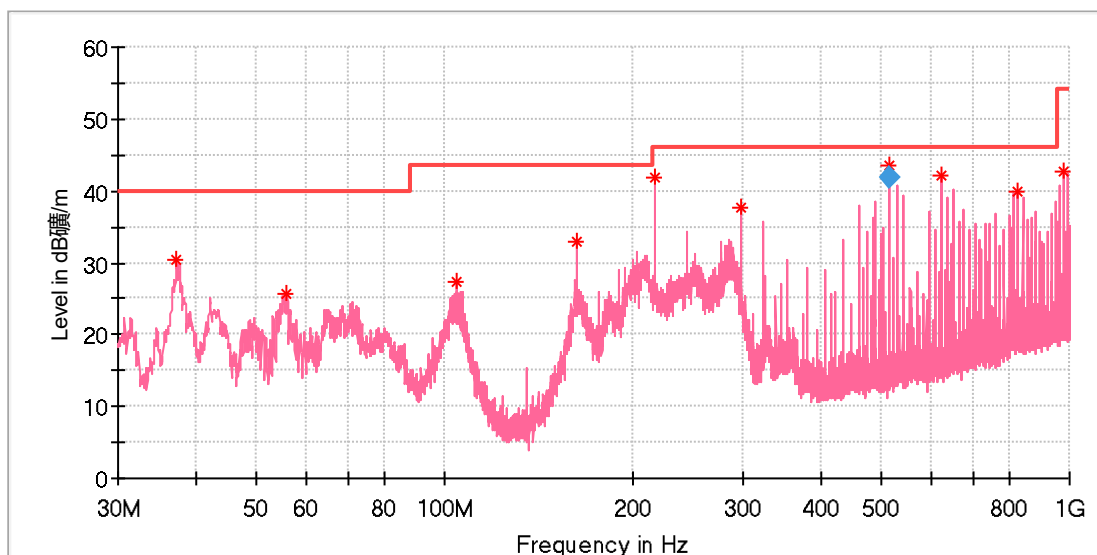
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.735000	19.09	40.00	20.91	100.0	H	0.0	-18.5
102.965556	26.90	43.50	16.60	100.0	H	74.0	-19.0
162.728333	33.35	43.50	10.15	100.0	H	199.0	-21.7
216.994444	37.81	46.00	8.19	100.0	H	161.0	-18.7
244.100556	36.97	46.00	9.03	100.0	H	168.0	-17.6
298.366667	40.04	46.00	5.96	100.0	H	68.0	-16.3
515.323333	37.31	46.00	8.69	100.0	H	272.0	-11.6
705.173889	40.45	46.00	5.55	100.0	H	272.0	-7.8
827.232222	41.57	46.00	4.43	100.0	H	0.0	-5.6
989.976667	37.86	54.00	16.14	100.0	H	133.0	-3.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: 3D Printer
Model: AccuFab-Aris
Test Mode: NFC
Order No/Sample No: 27201377/A004195427-001
Test Voltage: AC 120V/60Hz
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.225
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.221111	30.40	40.00	9.60	100.0	V	80.0	-21.1
55.974444	25.62	40.00	14.38	100.0	V	332.0	-18.6
104.528333	27.24	43.50	16.26	100.0	V	214.0	-18.9
162.728333	32.80	43.50	10.70	100.0	V	294.0	-21.7
216.994444	41.91	46.00	4.09	100.0	V	235.0	-18.7
298.312778	37.61	46.00	8.39	100.0	V	87.0	-16.3
515.323333	43.47	46.00	2.53	100.0	V	228.0	-11.6
623.801667	42.05	46.00	3.95	100.0	V	114.0	-9.2
827.232222	40.01	46.00	5.99	100.0	V	122.0	-5.6
976.450556	42.69	54.00	11.31	100.0	V	21.0	-3.9

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
515.312627	41.85	46.00	4.15	100.0	V	226.0	-11.6

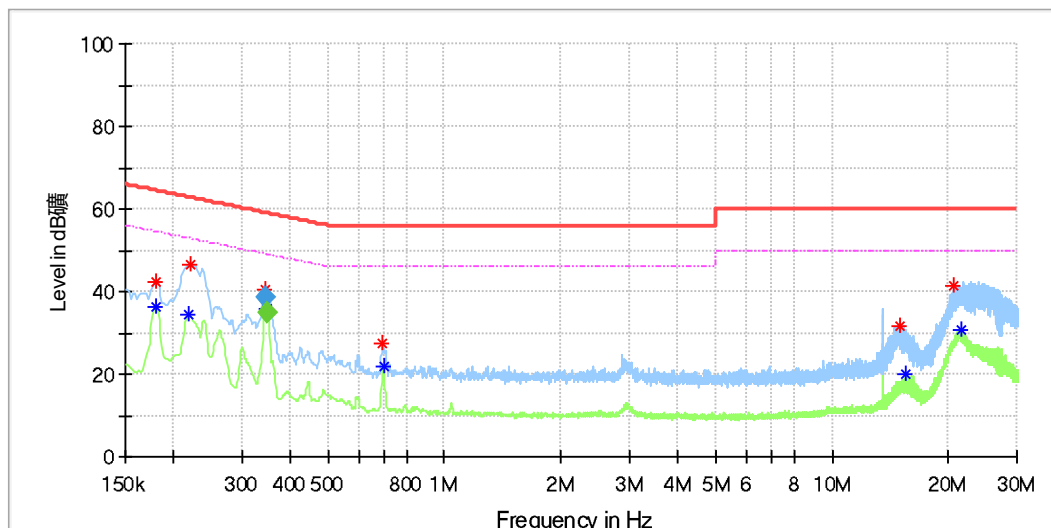
Co-location Mode (Wi-Fi+NFC)

It verified that there were no evident emissions found for simultaneous mode in Wi-Fi (The certificated Wi-Fi module) and NFC, thus no records listed.

Appendix A.5: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name:	3D Printer
Order Number:	27201377(P02234644)
Model:	AccuFab-Aris
Test Mode:	Wi-Fi Connecting+NFC
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Aric Wang/ Charlie Zha
Tem./Hum./Pressure:	24.2°C/50.3%/101kPa
Remark:	SR2



Critical Freqs

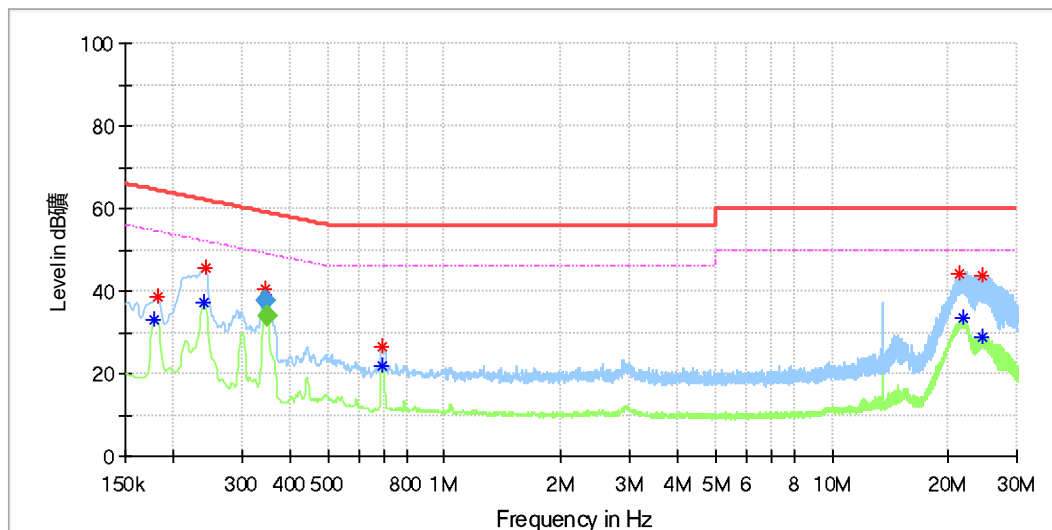
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.18	42.14	---	64.49	22.36	L1	10.24
0.18	---	36.34	54.49	18.15	L1	10.24
0.22	---	34.60	52.83	18.23	L1	10.24
0.22	46.72	---	62.77	16.05	L1	10.24
0.34	40.61	---	59.07	18.46	L1	10.25
0.35	---	35.99	49.03	13.04	L1	10.25
0.69	27.33	---	56.00	28.67	L1	10.28
0.70	---	21.94	46.00	24.06	L1	10.28
14.95	31.70	---	60.00	28.30	L1	10.77
15.48	---	19.84	50.00	30.16	L1	10.80
20.63	41.42	---	60.00	18.58	L1	11.15
21.44	---	30.53	50.00	19.47	L1	11.18

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.34	38.59	---	59.09	20.50	1000.00	9.00	L1	10.25
0.35	---	34.73	48.95	14.22	1000.00	9.00	L1	10.25

EUT Information

EUT Name: 3D Printer
Order Number: 27201377(P02234644)
Model: AccuFab-Aris
Test Mode: Wi-Fi Connecting+NFC
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Aric Wang/ Charlie Zha
Tem./Hum./Pressure: 24.2°C/50.3%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.18	---	32.85	54.57	21.72	N	10.25
0.18	38.75	---	64.42	25.66	N	10.25
0.24	---	37.13	52.11	14.98	N	10.25
0.24	45.63	---	62.06	16.43	N	10.25
0.34	40.40	---	59.11	18.70	N	10.26
0.35	---	38.08	49.03	10.95	N	10.26
0.69	26.44	---	56.00	29.56	N	10.29
0.69	---	21.93	46.00	24.07	N	10.29
21.36	44.19	---	60.00	15.81	N	11.17
21.70	---	33.32	50.00	16.68	N	11.19
24.30	---	28.83	50.00	21.17	N	11.28
24.42	43.57	---	60.00	16.43	N	11.29

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.34	37.87	---	59.13	21.26	1000.00	9.00	N	10.26
0.35	---	34.18	48.95	14.77	1000.00	9.00	N	10.26