EMC TEST REPORT

Applicant	Kiwibit Inc.
FCC ID	2BHUL-BW514
Product	Kiwibit Bird Feeder 2 Mini 4K AI Camera with Solar Panel
Brand	kiwibit
Model	BW514
Report No.	EFTA26050040-IE-01-E1V2
Issue Date	July 7, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2025)/ ANSI C63.4-2014**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Liu Wei | *Approved by: Xu Kai*

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	June 11, 2026
Rev.1	Updated information.	July 3, 2026
Rev.2	Updated information.	July 7, 2026
Note: This revised report (Report No.: EFTA26050040-IE-01-E1V2) supersedes and replaces the previously issued report (Report No.: EFTA26050040-IE-01-E1V1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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Summary of measurement results

Number	Test Case	Clause in FCC Rules	Conclusion
1	Radiated Emission	FCC Part15.109, ANSI C63.4-2014	PASS
2	Conducted Emission	FCC Part15.107, ANSI C63.4-2014	PASS
Date of Testing: May 11, 2026 ~ May 14, 2026 Date of Sample Received: May 7, 2026			
Note: 1. The conformity assessment in this report is based on a direct comparison of the test results with the limits by Eurofins TA Technology (Shanghai) Co., Ltd., without considering measurement uncertainty.			

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	https://www.eurofins.com/electrical-and-electronics
E-mail:	Kain.Xu@cpt.eurofinscn.com

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2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	Kiwibit Inc.
Applicant address	17880 Skypark Circle, Suite 260, Irvine, CA 92614
Manufacturer	Kiwibit Inc.
Manufacturer address	17880 Skypark Circle, Suite 260, Irvine, CA 92614

2.2 General Information

EUT Description			
Device Type	Movable Device		
Model	BW514		
SN	KCQ5WEKDAQ0124		
HW Version	KF531_C01_V2		
SW Version	1.9.32		
Power Rating	DC 3.6V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Bluetooth LE: PCB Onboard Antenna Wi-Fi 2.4GHz: FPC Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Bluetooth LE	2402 ~ 2480	2402 ~ 2480
	Wi-Fi 2.4GHz	2412 ~ 2462	2412 ~ 2462
EUT Accessory			
Battery	Manufacturer: Guangdong Xinlong New EnergyCo., Ltd. Model: 21700 DC 3.6V, 4500mAh		
Auxiliary Test Equipment			
Adapter	Manufacturer: HUAWEI Model: HW-050200E02 Output: 5.0V⎓ 2.0A		
USB Cable	75cm Cable, Shielded		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.			

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2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards
FCC Code CFR47 Part15B (2025)
ANSI C63.4-2014

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2.4 Test Mode

Test Mode	
Mode 1	Adapter + EUT + standby
Mode 2	Battery + EUT + standby

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1, 2	Mode 1
Conducted Emission	Mode 1	Mode 1
After technical evaluation or/and preliminary test, the test data of the worst-case condition was recorded in this report.		

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3 Test Case Results

3.1 Radiated Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane, when the EUT is a floor standing equipment, it is placed on the ground plane which has a 15cm non-conductive covering to insulate the EUT from the ground plane.
The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.
The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.
Set the spectrum analyzer in the following:

Below 1GHz:
RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
Above 1GHz:
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO
(b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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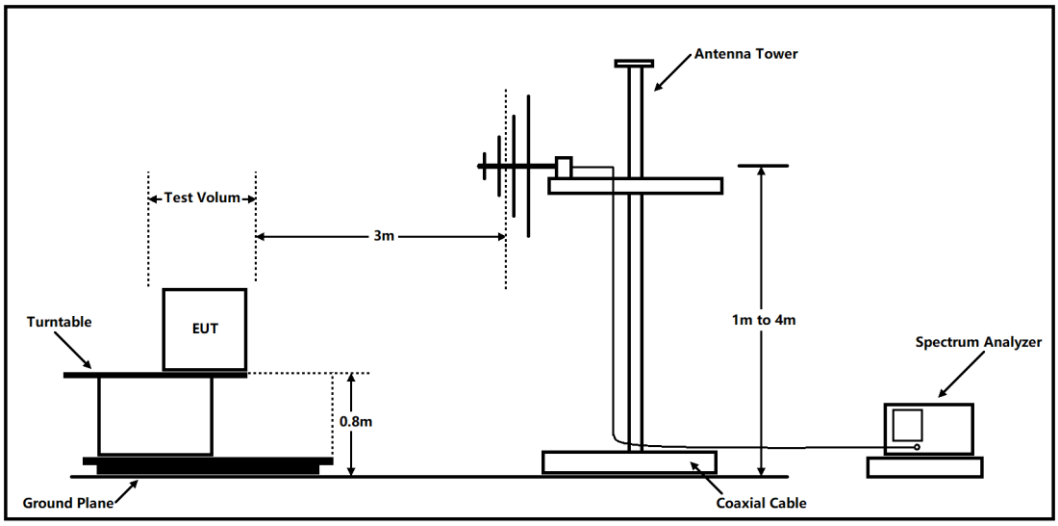
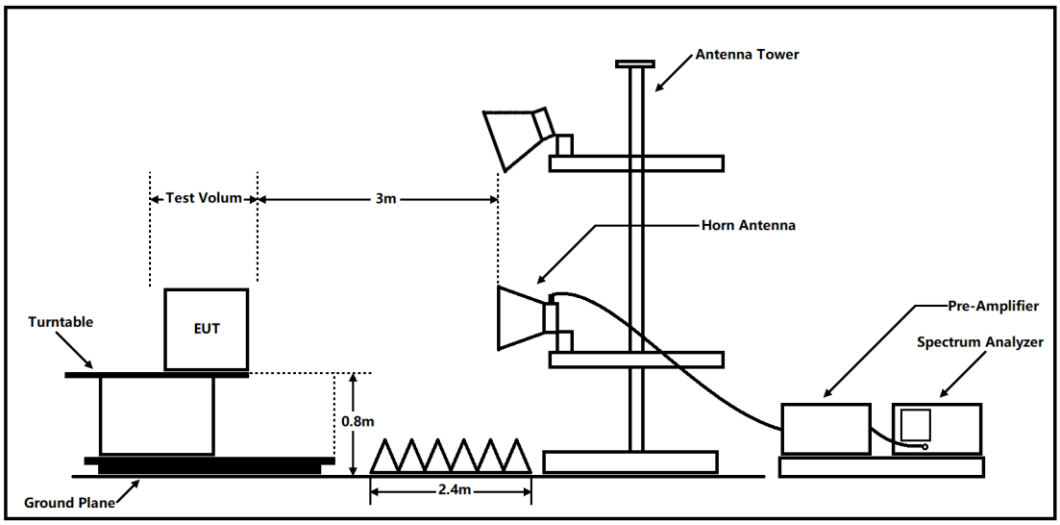
Test Setup

Below 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

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Limits

Class B

Frequency (MHz)	Field Strength (dBμV/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

Frequency range of radiated measurements

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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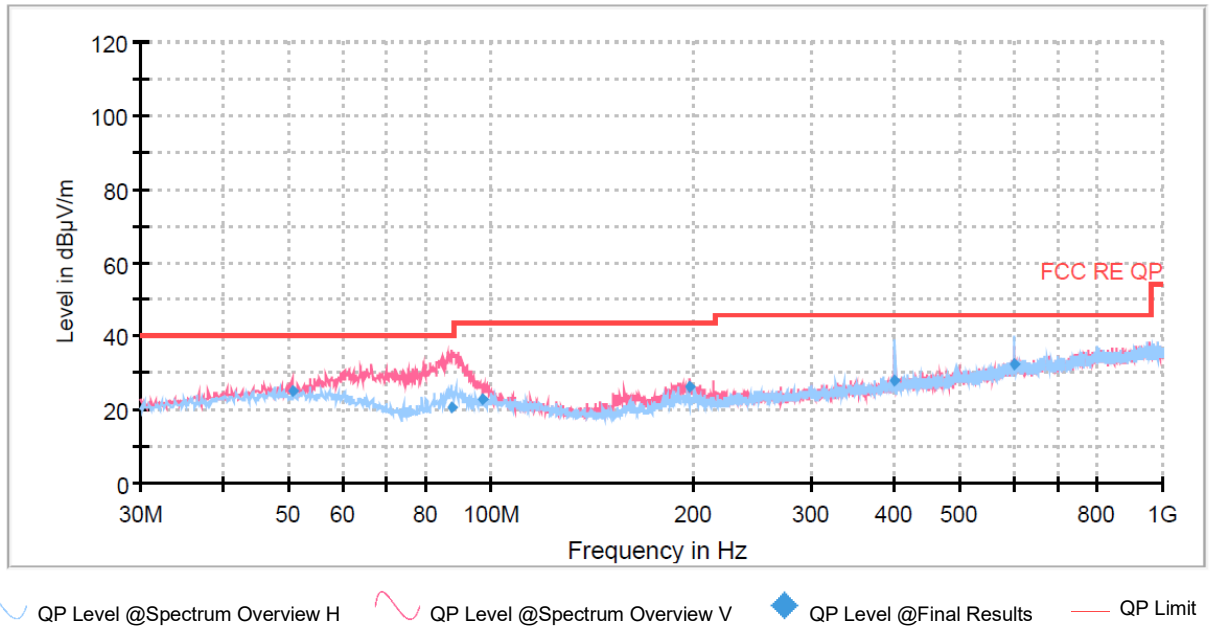
Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 26.5GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.



Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.49	25.02	40.00	14.98	1000.00	200.0	V	250.00	20
87.35	20.78	40.00	19.22	1000.00	100.0	V	0.00	16
96.69	22.76	43.50	20.74	1000.00	100.0	V	0.00	18
198.05	26.42	43.50	17.08	1000.00	100.0	V	192.00	18
400.06	27.68	46.00	18.32	1000.00	100.0	H	281.00	23
600.12	32.49	46.00	13.51	1000.00	200.0	H	357.00	27

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss)

2. Margin = Limit – Quasi-Peak

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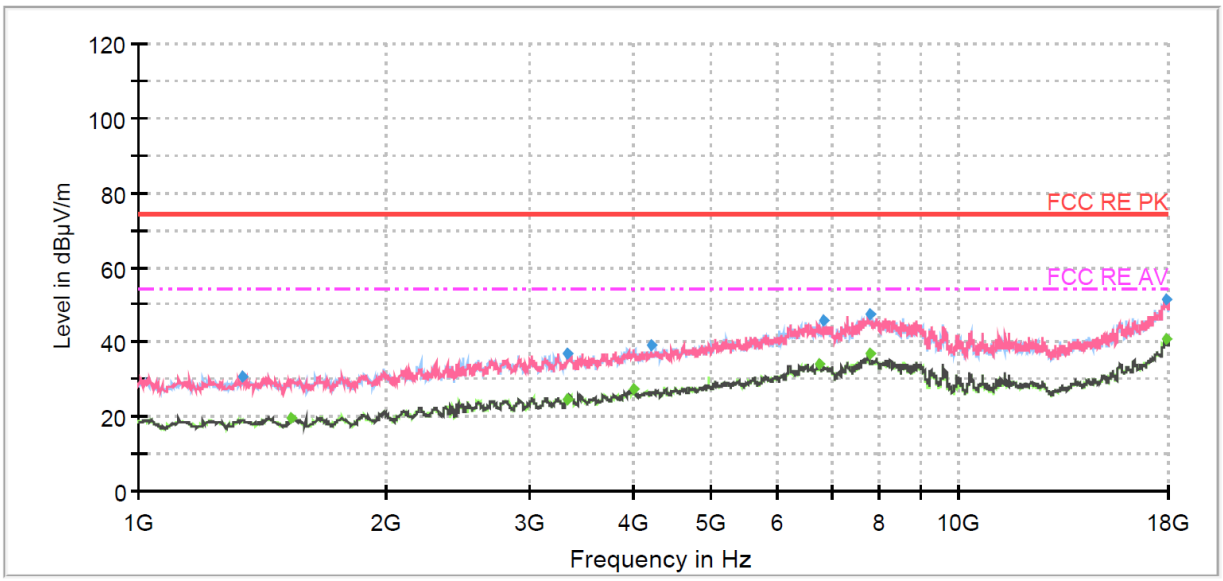

PK Level @Spectrum Overview H
PK Level @Spectrum Overview V
PK Level @Final Results
PK Limit
AVG Level @Spectrum Overview H
AVG Level @Spectrum Overview V
AVG Level @Final Results
AVG Limit

Radiated Emission from 1GHz to 18GHz

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1337.88	30.57	---	74.00	43.43	1000.00	100.0	H	89.00	-21
1537.63	---	19.63	54.00	34.37	1000.00	200.0	H	347.00	-21
3326.88	---	24.67	54.00	29.33	1000.00	200.0	V	0.00	-13
3337.50	36.74	---	74.00	37.26	1000.00	200.0	H	113.00	-13
4015.38	---	27.23	54.00	26.77	1000.00	100.0	H	324.00	-12
4215.13	38.80	---	74.00	35.20	1000.00	200.0	H	336.00	-11
6737.50	---	34.08	54.00	19.92	1000.00	100.0	H	168.00	-2
6831.00	45.53	---	74.00	28.47	1000.00	200.0	H	252.00	-2
7768.13	---	36.60	54.00	17.40	1000.00	200.0	H	82.00	1
7770.25	47.45	---	74.00	26.55	1000.00	200.0	V	2.00	1
17844.88	---	40.91	54.00	13.09	1000.00	200.0	V	263.00	15
17874.63	51.62	---	74.00	22.38	1000.00	100.0	H	261.00	15

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – MaxPeak / Average

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3.2 Conducted Emission

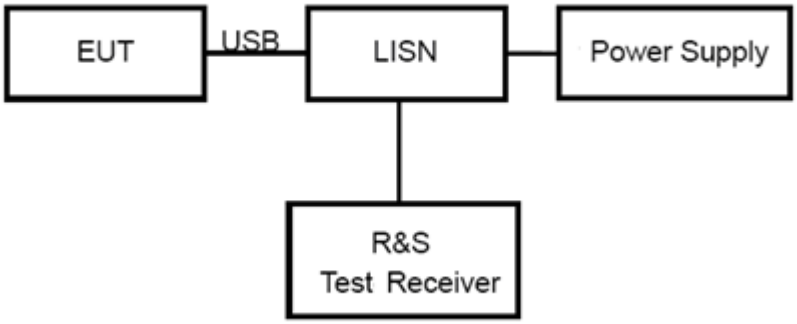
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

Limits

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50
*: Decreases with the logarithm of the frequency.				

Note: The EUT should meet CLASS B limit.

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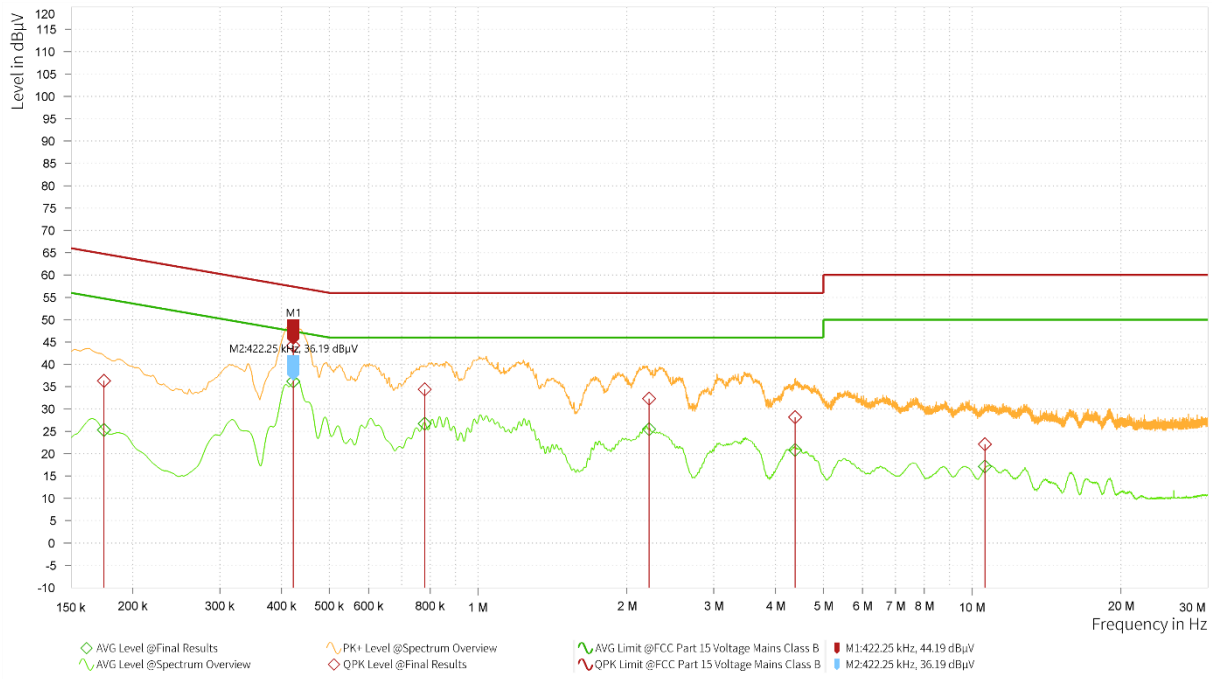
Test Results



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.175	36.32	64.73	28.41	25.31	54.73	29.42	21.03	L1	9.000	1.000
0.422	44.19	57.40	13.21	36.19	47.40	11.22	20.85	L1	9.000	1.000
0.780	34.40	56.00	21.60	26.72	46.00	19.28	20.35	L1	9.000	1.000
2.220	32.34	56.00	23.66	25.50	46.00	20.50	19.60	L1	9.000	1.000
4.382	28.18	56.00	27.82	20.84	46.00	25.16	19.41	L1	9.000	1.000
10.617	22.12	60.00	37.88	17.12	50.00	32.88	19.41	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 kHz to 30 MHz

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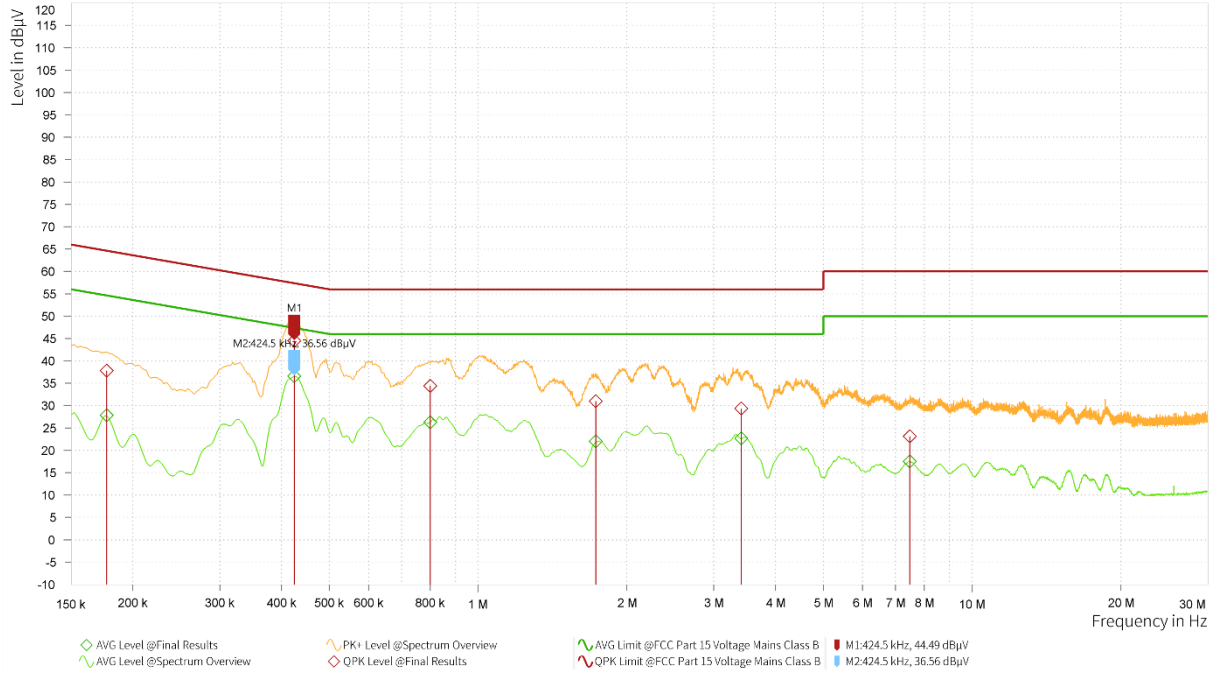

Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.177	37.83	64.63	26.79	27.82	54.63	26.81	21.04	N	9.000	1.000
0.425	44.49	57.36	12.87	36.56	47.36	10.80	20.86	N	9.000	1.000
0.800	34.39	56.00	21.61	26.28	46.00	19.72	20.34	N	9.000	1.000
1.730	30.99	56.00	25.01	22.03	46.00	23.97	19.75	N	9.000	1.000
3.410	29.35	56.00	26.65	22.70	46.00	23.30	19.46	N	9.000	1.000
7.478	23.14	60.00	36.86	17.52	50.00	32.48	19.41	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 kHz to 30 MHz

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4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	4.17 dB	1.96
Radiated Emission 200MHz – 1GHz	4.84 dB	1.96
Radiated Emission 1GHz – 18GHz	4.35 dB	1.96
Conducted Emission	2.57 dB	2

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5 Main Test Instruments

Name of Equipment	Manufacturer	Type/Model	Serial Number/ Version	Calibration Date	Expiration Time
Radiated Emission					
EMI Test Receiver	R&S	ESCI3	100948	2026-04-20	2027-04-19
Signal Analyzer	R&S	FSV40	101186	2026-04-21	2027-04-20
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	2026-04-20	2027-04-19
Horn Antenna	R&S	BBHA 9170	101301	2023-09-16	2026-09-15
Amplifier	MicroWave	SCU40F1	100649	2025-12-01	2026-11-30
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2025-11-24	2026-11-23
EMI Test Receiver	R&S	ESR	101667	2026-04-20	2027-04-19
Software	R&S	EMC32	10.35.10	/	/

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6 The EUT Appearance

Refer to *EUT Appearance*.

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7 Test Setup Photos

Refer to *EMC Test Setup*.

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

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