

RF Exposure Evaluation Report

Applicant: Nextivity, Inc.

Address of Applicant: 16550 West Bernardo Drive, Building 5, Suite 550, San Diego, CA 92127 USA

Product Name: Cellphone Signal Booster

Model No.: NU: Q51-SXNU, CU: Q51-SXCU

Brand Name: CEL-FI

FCC ID: NU: YETQ51-SXNU, CU: YETQ51-SXCU

Test Standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of Sample Receipt: May. 10, 2026

Date of Test: May. 10, 2026 to Jul. 14, 2026

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Prepared By:

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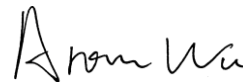


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Report Revision History

Rev.	Issue Date	Description
V00	Jul. 17, 2026	Initial Release
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1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
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1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **ISED - CAB Identifier: CN0202**
Shenzhen Acote Technology Co., Ltd. is registered with ISED (Innovation, Science and Economic Development Canada) as a Conformity Assessment Body (CAB) for radio equipment testing.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	Nextivity, Inc.
Address of Applicant:	16550 West Bernardo Drive, Building 5, Suite 550, San Diego, CA 92127 USA
Manufacturer:	Nextivity, Inc.
Address of Manufacturer:	16550 West Bernardo Drive, Building 5, Suite 550, San Diego, CA 92127 USA

2.2 Product Information

Product Name:	Cellphone Signal Booster
Model No.:	NU: Q51-SXNU, CU: Q51-SXCU
Models of Product Family:	N/A
Description of Model Differentiation:	N/A
Hardware Version:	B
Software Version:	6_3_43
Power Supply:	DC 48V (via EPS-POE)
AC/DC Adapter:	Model No.: Q50-XEPU Input: AC 90-264V, 50/60Hz, 4.85A Output: DC 57V, 1.9A, 90W max.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

2.3 EUT Technical Parameters

Operation Frequency:	LTE B2: 1850MHz ~ 1910MHz (UL), 1930MHz ~ 1990MHz (DL) LTE B4: 1710MHz ~ 1755MHz (UL), 2110MHz ~ 2155MHz (DL) LTE B5: 824MHz ~ 849MHz (UL), 869MHz ~ 894MHz (DL) LTE B7: 2500MHz ~ 2570MHz (UL), 2620MHz ~ 2690MHz (DL) LTE B12: 699MHz ~ 716MHz (UL), 729MHz ~ 746MHz (DL) LTE B14: 788MHz ~ 798MHz (UL), 758MHz ~ 768MHz (DL) LTE B17: 704MHz ~ 716MHz (UL), 734MHz ~ 746MHz (DL) LTE B25: 1850MHz ~ 1915MHz (UL), 1930MHz ~ 1995MHz (DL) LTE B66: 1710MHz ~ 1780MHz (UL), 2110MHz ~ 2200MHz (DL) NR n2: 1850MHz ~ 1910MHz (UL), 1930MHz ~ 1990MHz (DL) NR n5: 824MHz ~ 849MHz (UL), 869MHz ~ 894MHz (DL) NR n7: 2500MHz ~ 2570MHz (UL), 2620MHz ~ 2690MHz (DL) NR n12: 699MHz ~ 716MHz (UL), 729MHz ~ 746MHz (DL) NR n14: 788MHz ~ 798MHz (UL), 758MHz ~ 768MHz (DL) NR n25: 1850MHz ~ 1915MHz (UL), 1930MHz ~ 1995MHz (DL) NR n66: 1710MHz ~ 1780MHz (UL), 2110MHz ~ 2200MHz (DL) NR n77: 3450MHz ~ 3550MHz (UL), 3450MHz ~ 3550MHz (DL) NR n77: 3700MHz ~ 3980MHz (UL), 3700MHz ~ 3980MHz (DL)	
Antenna Type:	External Antenna Q51-FXNU: LPDA Antenna(A62-V44-200) Q51-FXCU: Omni Whip Antenna(A21-ML3-600)	
Antenna Gain:	Frequency Range	LPDA Antenna A62-V44-200 (with 65 cm Separation)
	617 - 960 MHz	12dBi

	1710 - 2700MHz	14dBi
	3300 – 4000MHz	12dBi
	Frequency Range (Service Bands)	Whip Antenna A21-ML3-600 (with 20 cm Separation)
	600, 700, 800, 850, 900	0.5dBi
	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	2.1dBi
	3300, 3500, 3600, 3700, 3450	1.5dBi
	(declare by Applicant)	

3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- FCC CFR Title 47 Part 2 (§2.1091)

3.2 Additions to, Deviations, or Exclusions from the Method

None

3.3 Test Mode

Uplink mode (NU TX)	Input signal is applied to antenna port of CU. Output is monitored from antenna port of NU.
Downlink mode (CU TX)	Input signal is applied to antenna port of NU. Output is monitored from antenna port of CU.

3.4 Worst-case

This RF exposure assessment is based on the maximum EIRP derived from worst-case engineering measurements across all modulation types at various data rates.

4 Technical requirements specification

4.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-3.0	614	1.63	*(100)	30
3.0-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1.0	30

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.2 Result

This is the absolute gain (including cable loss) that can be used with the EUT (worst case):

Mode	Maximum Tune-up power (dBm)	Maximum Output power (mW)	Distance (cm)	The exposure value under prediction	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)	Antenna Gain (numeric)	Antenna Gain (dBi)
Uplink (NU)							
LTE Band2	24.0	251.19	65.00	0.991	1.0	209.36	23.2
LTE Band4	24.0	251.19	65.00	0.991	1.0	209.36	23.2
LTE Band5	22.0	158.49	65.00	0.51	0.55	170.76	22.3
LTE Band7	24.0	251.19	65.00	0.991	1.0	209.36	23.2
LTE Band12	22.0	158.49	65.00	0.42	0.47	140.63	21.5
LTE Band14	22.0	158.49	65.00	0.51	0.53	170.76	22.3
LTE Band17	22.0	158.49	65.00	0.42	0.47	140.63	21.5
LTE Band25	24.0	251.19	65.00	0.991	1.0	209.36	23.2
LTE Band66	24.0	251.19	65.00	0.991	1.0	209.36	23.2
NR n2	24.0	251.19	65.00	0.991	1.0	209.36	23.2
NR n5	22.0	158.49	65.00	0.51	0.55	170.76	22.3
NR n7	24.0	251.19	65.00	0.991	1.0	209.36	23.2
NR n12	22.0	158.49	65.00	0.42	0.47	140.63	21.5
NR n14	22.0	158.49	65.00	0.50	0.53	167.41	22.2
NR n25	24.0	251.19	65.00	0.991	1.0	209.36	23.2
NR n66	24.0	251.19	65.00	0.991	1.0	209.36	23.2
n77(3450-3550)	26.0	398.11	65.00	0.991	1.0	132.10	21.2
n77(3700-3980)	26.0	398.11	65.00	0.991	1.0	132.10	21.2
Downlink (CU)							
LTE Band2	22.0	158.49	20.00	0.991	1.0	31.41	15.0
LTE Band4	22.0	158.49	20.00	0.991	1.0	31.41	15.0
LTE Band5	22.0	158.49	20.00	0.51	0.58	16.17	12.1
LTE Band7	22.0	158.49	20.00	0.991	1.0	31.41	15.0
LTE Band12	22.0	158.49	20.00	0.42	0.49	13.31	11.2
LTE Band14	22.0	158.49	20.00	0.45	0.51	14.26	11.5
LTE Band17	22.0	158.49	20.00	0.42	0.49	13.31	11.2
LTE Band25	22.0	158.49	20.00	0.991	1.0	31.41	15.0

LTE Band66	22.0	158.49	20.00	0.991	1.0	31.41	15.0
NR n2	22.0	158.49	20.00	0.991	1.0	31.41	15.0
NR n5	22.0	158.49	20.00	0.51	0.58	16.17	12.1
NR n7	22.0	158.49	20.00	0.991	1.0	31.41	15.0
NR n12	22.0	158.49	20.00	0.42	0.49	13.31	11.2
NR n14	22.0	158.49	20.00	0.45	0.51	14.26	11.5
NR n25	22.0	158.49	20.00	0.991	1.0	31.41	15.0
NR n66	20.0	100.00	20.00	0.991	1.0	49.79	17.0
n77(3450-3550)	29.0	794.33	20.00	0.991	1.0	6.27	8.0
n77(3700-3980)	29.0	794.33	20.00	0.991	1.0	6.27	8.0

Measurement data (worst case according to antenna gain):

Mode	Maximum Tune-up power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)
Uplink (NU)							
LTE Band2	24.0	251.19	14	25.12	65.00	0.12	1.0
LTE Band4	24.0	251.19	14	25.12	65.00	0.12	1.0
LTE Band5	22.0	158.49	12	15.85	65.00	0.05	0.55
LTE Band7	24.0	251.19	14	25.12	65.00	0.12	1.0
LTE Band12	22.0	158.49	12	15.85	65.00	0.05	0.47
LTE Band14	22.0	158.49	12	15.85	65.00	0.05	0.53
LTE Band17	22.0	158.49	12	15.85	65.00	0.05	0.47
LTE Band25	24.0	251.19	14	25.12	65.00	0.12	1.0
LTE Band66	24.0	251.19	14	25.12	65.00	0.12	1.0
NR n2	24.0	251.19	14	25.12	65.00	0.12	1.0
NR n5	22.0	158.49	12	15.85	65.00	0.05	0.55
NR n7	24.0	251.19	14	25.12	65.00	0.12	1.0
NR n12	22.0	158.49	12	15.85	65.00	0.05	0.47
NR n14	22.0	158.49	12	15.85	65.00	0.05	0.53
NR n25	24.0	251.19	14	25.12	65.00	0.12	1.0
NR n66	24.0	251.19	14	25.12	65.00	0.12	1.0
n77(3450-3550)	26.0	398.11	12	15.85	65.00	0.12	1.0

n77(3700-3980)	26.0	398.11	12	15.85	65.00	0.12	1.0
Downlink (CU)							
LTE Band2	22.0	158.49	2.1	1.62	20.00	0.05	1.0
LTE Band4	22.0	158.49	2.1	1.62	20.00	0.05	1.0
LTE Band5	22.0	158.49	0.5	1.12	20.00	0.04	0.58
LTE Band7	22.0	158.49	2.1	1.62	20.00	0.05	1.0
LTE Band12	22.0	158.49	0.5	1.12	20.00	0.04	0.49
LTE Band14	22.0	158.49	0.5	1.12	20.00	0.04	0.51
LTE Band17	22.0	158.49	0.5	1.12	20.00	0.04	0.49
LTE Band25	22.0	158.49	2.1	1.62	20.00	0.05	1.0
LTE Band66	22.0	158.49	2.1	1.62	20.00	0.05	1.0
NR n2	22.0	158.49	2.1	1.62	20.00	0.05	1.0
NR n5	22.0	158.49	0.5	1.12	20.00	0.04	0.58
NR n7	22.0	158.49	2.1	1.62	20.00	0.05	1.0
NR n12	22.0	158.49	0.5	1.12	20.00	0.04	0.49
NR n14	22.0	158.49	0.5	1.12	20.00	0.04	0.51
NR n25	22.0	158.49	2.1	1.62	20.00	0.05	1.0
NR n66	20.0	100.00	2.1	1.62	20.00	0.03	1.0
n77(3450-3550)	29.0	794.33	1.5	1.41	20.00	0.22	1.0
n77(3700-3980)	29.0	794.33	1.5	1.41	20.00	0.22	1.0

Note: Just the worst case mode was shown in report.

4.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

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