

FCC RF Exposure Report

Product name : G3 transformer US/C
Applicant : in-lite
FCC ID : 2AU26-SMARTHUB150

Test report No. : 190800656 V1.00 FCC RF exposure

Laboratory information

Accreditation

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001

The Industry Canada registration number for the 3 meter test chamber of Telefication is: 4173A-1.

Documentation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2005. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L021 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Nederland.

Testing Location

Test Site	Telefication BV
Test Site location	Edisonstraat 12a 6902 PK Zevenaar The Netherlands Tel. +31316583180 Fax. +31316583189
Test Site FCC	NL0001

Revision History

Version	Date	Remarks	By
v1.00	21-01-2020	Release version	PS

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1 General Description

1.1 Applicant

Client name:	in-lite design bv
Address	Stephensonweg 18
Zip code:	4207 HB Gorinchem
Telephone:	+31 18 46 88 760
Contact name:	Wilbrand Menzo
E-mail:	wilbrand.menzo@in-lite.nl

1.2 Manufacturer

Manufacturer name:	in-lite design bv
Address:	Stephensonweg 18
Zip code:	4207 HB Gorinchem
Telephone:	+31 18 46 88 760
Contact name::	Wilbrand Menzo
E-mail:	wilbrand.menzo@in-lite.nl

1.3 Tested Equipment Under Test (EUT)

Product name:	G3 transformer US/C
Brand name:	SMART HUB-150
Product type:	Wideband data transmission equipment
FCC ID:	2AU26-SMARTHUB150
ISED ID	25679-SMARTHUB150
Model(s):	SMART HUB-150
Software version:	--
Hardware version:	--

1.4 MPE Calculation Method

Calculation method of RF Safety Distance:

$$PD = 10 * \frac{P_{out} * G}{4\pi r^2}$$

Where:

PD = Power Density in W/m^2

Pout = Output power in mW

G = Gain of antenna

R = Distance between observation point and centre of the radiator in cm

1.5 Antenna

Technology	BLE
Antenna type	PCB antenna
Antenna gain	3.3 dBi

1.6 Calculation results

Technology	Frequency (MHz)	Max power (mW)	Antenna gain (numeric)	Distance (cm)	Power density (W/m^2)	Limit (W/m^2)
BLE	2402	79.4	2.14	20	0.34	10