



RF EXPOSURE TEST REPORT



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Laboratory Accreditations (per ISO/IEC 17025:2017)



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Manufacturer: Cooper Electrical Canada
Address: 74-1833 Coast Meridian Rd.
Port Coquitlam BC, V3E 6G5 Canada
Equipment Tested: TS1109A 10 Button Remote Control 900MHz Alkaline Battery
Model Number(s): TS1109A

C2PC - Hardware changes for Alkaline battery; refer to other test reports for transmitter characteristics
This product contains a 915MHz Band Radio Module in the EUT.
FCC ID: IA9TD1109 IC:1338B-TD1109





REPORT AUTHORIZATION

The data documented in this report is for the test equipment provided by the manufacturer. The tests were conducted on the sample equipment as requested by the manufacturer for the purpose of demonstrating compliance with the standards outlined in [Section II](#) of this report as agreed upon by the Manufacturer under the quote 25BM01293R2..

The Manufacturer is responsible for the tested product configurations, continued product compliance, and for the appropriate auditing of subsequent products as required. This report may comprise a partial list of tests that are required for FCC, ISED, and CE. Declaration of Conformity can only be produced by the manufacturer. This is to certify that the following report is true and correct to the best of our knowledge.

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QAI EMC ACCREDITATION

QAI EMC is your one-stop regulatory compliance partner for electromagnetic compatibility (EMC) and electromagnetic interference (EMI). Products are tested to the latest and applicable EMC/EMI requirements for domestic and international markets. QAI EMC goes above and beyond being a testing facility—we are your regulatory compliance partner. QAI EMC has the capability to perform RF Emissions and Immunity for all types of electronics manufacturing including Industrial, Scientific, Medical, Information Technology, Telecom, Wireless, Automotive, Marine and Avionics.

EMC Laboratory Location	FCC Designation (3m SAC)	IC Registration (3m SAC)	A2LA Certificate
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1 EXECUTIVE SUMMARY

1.1 Purpose

The purpose of this report is to demonstrate and document the compliance of the Cast Group of Companies Wireless Transmitter Module as per Sections 1.2 and 1.3.

1.2 Scope

The information documented in this report is based on the test methods and levels as per Quote 25BM01293R2.:

- **FCC KDB 447498 D04: v01 – General RF Exposure Guidance**
- **47 CFR FCC Part 2 Subpart J, section 2.1091**
- **47 CFR Part 1.1307**
- **47 CFR Part 1.1310**
- **RSS-102 Issue 6** – Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
- **EN 62479:2010** – Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields

1.3 Summary of Results

No.	Test	Applicable Standard	Description	Result
1	RF Exposure Evaluation	FCC 47 CFR 2.1093 FCC 47 CFR 1.1310 RSS-102 Issue 6 (6.6)	RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm	Complies

Table 1: Applicable Test Standards and Descriptions

Note: The gain of the antenna(s) is provided by the client to measure or calculate test results and is not independently measured by QAI.

1.4 Sample Calculations of Emissions Data

Radiated and conducted emissions were performed using EMC32 software developed by Rohde & Schwarz. Transducer factors like Antenna factors, Cable Losses and Amplifier gains were stored in the test templates which are used to perform the emissions measurements. After test is finished, data is generated from the EMC32 consisting of product details, emission plots and final data tables as shown below.

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.0064	25.67	40.00	14.33	1000	120	315.0	H	161	4.0

Quasi-Peak reading shown in the table above is already corrected by the software using correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

Or

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable Loss} - \text{Amp gain (if pre-amplifier was used)}$$

The final Quasi peak reading shown in the data is calculated by the software using following equation:

$$\text{Corrected Quasi-Peak (dBμV/m)} = \text{Raw Quasi-Peak Reading} + \text{Antenna factor} + \text{Cable loss}$$

To obtain the final Quasi-Peak or Average reading during power line conducted emissions, transducer factors are included in the final measurement as shown below.

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.2410	---	23.71	52.06	28.35	1000.0	9.0	L1	GND	10.0
0.2411	38.98	---	62.06	23.08	1000.0	9.0	L1	GND	10.0

Quasi Peak or Average reading shown in above table is already corrected by the software using the correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

The final Quasi-peak or Average reading shown in the data is calculated by the software using following equation:

$$\text{Corr. Quasi-Peak/Average Reading (dBμV)} = \text{Raw Quasi-Peak/Average Reading} + \text{Antenna factor} + \text{Cable loss}$$

The allowable margin from the limits, as per the standards, were calculated for both radiated and conducted emissions:

$$\text{Margin (dB)} = \text{Limit} - \text{Quasi-Peak or Average reading}$$



1.5 Test Equipment List

The tables below contain all the equipment used by 'QAI Laboratories' in conducting all tests on the Equipment Under Test (EUT) as per Section I.

Emissions Test Equipment

	Manufacturer	Model	Description	Serial No.	S/W Version	Calibration Due Date
1	Com-Power Corporation	LI-220C	Line Impedance Stabilization Network (9kHz-30MHz)	20070025	N/A	2026-Jan-23
2	Sunol Sciences	SC 104V	Turntable Controller	042506-1	N/A	Indication Only
3	Sunol Sciences	SM46C	Turntable	071705-2	N/A	Indication Only
4	Maturo GmbH	BAM 4.0-P	Boresight Antenna Mast	365	3382.01	Indication Only
5	ETS Lindgren	S201	7-meter Semi-Anechoic Chamber	1030	N/A	Indication Only
6	Hewlett Packard	8447F	Amplifier (0.1-1300MHz)	1726A00566	N/A	Indication Only
7	Hewlett Packard	8449B	Preamplifier (1-26.5 GHz)	3008A00982	N/A	Indication Only
8	Microwave Lab	USMC10180	Low Noise Amplifier (0.1-18GHz)	001303JR0802 A2729	N/A	Indication Only
9	Keysight Technologies	N9038B	MXE EMI Receiver, Multi-touch	MY60180014	N/A	2026-Aug-22
10	ETS-Lindgren	3117	Horn, Double-Ridge Guide Ant, 1.0 - 18 GHz	75944	N/A	2026-Jan-25
11	Sunol Sciences	JB3	Biconilog Antenna (30MHz – 3GHz)	A120106	N/A	2026-Mar-28

Note: Equipment listed above have 3 years calibration interval.

Measurement Software List

	Manufacturer	Model	Version	Description
1	Rohde & Schwarz	EMC 32	10.35.10	Emissions Test Software

2 GENERAL INFORMATION

The information provided in this section is for the Equipment Under Test (EUT) and the corresponding Auxiliary Equipment needed to perform the tests as a complete system.

Equipment Under Test (EUT) Photos



EUT Information

EUT System	Description	Manufacturer	Model No.	Serial No.	Software Firmware Version
1	10 Button Remote Control 900MHz Alkaline Battery	Cooper Electrical Canada	TS1109A	ENG001	V1.4(49217)
Note: Highest frequency generated or tuned upon within the EUT is 928 MHz.					

Equipment Under Test (EUT) – RF Information

RF device type	Transmitter
Frequency Range	902.2 MHz – 927.7 MHz
Number of available channels/ Transmitter	256 (1/4 used at a time)
Channel separation	400 kHz
Channel Bandwidth	25kHz
Output power/Transmitter	11.5dBm (conducted) – non adjustable
Modulation type	2-level FSK
Test Channels (L, M, H)	902.2, 914.9, 927.7 MHz
Data Rate	4800 Baud
Adaptive	No
Geo-location capability	No
Number of Antennas	1
Antenna type	Chip (non-detachable)
Antenna gain	0.3 dBi

EUT Test Mode/Configuration/Operation During Testing

Test Mode	EUT Test Configuration/Operation
1	Custom Firmware transmission once every second to simulate a button press; EUT Orientation - Horizontal flat on the table top was identified as representing the worst case orientation for all radiated emissions

Ancillary Equipment Information

System	Description	Manufacturer	Model No.	Serial No.
None required--	--	--	--	--

EUT Cabling Configuration

Port name	Connection Type / Connectors	Shielded	Ferrites	Length
None required--	--	--	--	--

2.1 Environmental Conditions

The equipment under test was operated and tested under the following environmental conditions:

Parameter	Conditions
Location	Indoors
Temperature	20.1 °C
Relative Humidity	43.5%
Atmospheric Pressure	101.2 kPa

2.2 Measurement Uncertainty

Parameter	Uncertainty
Radiated Emissions, 30MHz-1GHz	± 2.40 dB
Radiated Emissions, 1GHz-40GHz	± 2.48 dB
Radio Frequency	±1.5 x 10 ⁻⁵ MHz
Total RF Power Conducted	±1.36 dB
Spurious Emissions, Conducted	±1.36 dB
RF Power Density, Conducted	±1.36 dB
Temperature	±1°C
Humidity	±5 %
DC and low frequency voltages	±3 %



3 DATA & TEST RESULTS

3.1 RF Exposure Evaluation – Federal Communications Commission (FCC)

Date Performed:	30-Jul-25
Test Standard:	FCC 47 CFR 1.1307 FCC 47 CFR 1.1310 FCC 47 CFR 2.1091
Test Method:	FCC OET Bulletin 65 Ed 97-01 FCC KDB 477498 D01: v06
Modifications:	None
Final Result:	Complies

3.1.1 Applicable Regulations

3.1.1.1 FCC – KDB 447498: General RF Exposure Guidance

7. RF EXPOSURE EVALUATION GUIDANCE FOR MOBILE CONDITIONS

7.1 Transmitters used in mobile device exposure conditions for standalone operations.

A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The minimum test separation distance required for a device to comply with mobile device exposure conditions must be clearly identified in the installation and operating instructions, for all installation and exposure conditions, to enable users and installers to comply with RF exposure requirements.

When a device qualifies for the categorical exclusion provision of 2.1091 (c), the minimum test separation distance may be estimated, when applicable, by simple calculations according to plane-wave equivalent conditions, to ensure the transmitter and its antenna(s) can operate in manners that meet or exceed the estimated distance.

When a device does not qualify for the categorical exclusion provision of 2.1091 (c), routine evaluation using MPE measurement or computational modeling is required to determine compliance. For mobile devices operating in mostly stationary configurations MPE estimated instead of measurements or numerical simulation may be acceptable.

7.2 Transmitters used in mobile device exposure conditions for simultaneous transmission operations.

For mobile exposure host platform devices to qualify for simultaneous transmission MPE test exclusion, all transmitters and antennas in the host must either be evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in 7.1. When modular transmitters are used, the minimum test separation distance required for each simultaneously transmitting antenna installed in the host device must satisfy MPE compliance for both standalone and simultaneous transmission operations. When simultaneous transmission MPE test exclusion applies, transmitter modules may be incorporated in host devices according to Class I permissive change requirements to document the test exclusion conditions.

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0 , according to calculated/estimated, numerically modeled, or measured field strengths or power density. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to the MPE limit at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging should not be applied when MPE is estimated using simple

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calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required for all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3.1.1.2 FCC 47 CFR 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

(b)(3)(i)(B) A single RF source is exempt if the available maximum time-averaged power or effective radiated power (ERP), whichever is greater is less than or equal to the threshold P_{th} (mW) described in the following formula:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \leq 20cm \\ ERP_{20cm} & 20cm \leq d \leq 40cm \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

And

$$ERP_{20cm} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f \leq 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(b)(3)(i)(C) Table 1 – Single RF Sources Subject to Routine Environmental Evaluation:

RF Source Frequency (MHz)	Threshold ERP (W)
0.3 – 1.34	$1,920 R^2$
1.34 – 30	$3,450 R^2/f^2$
30 – 300	$3.83 R^2$
300 – 1,500	$0.0128 R^2f$
1,500 – 100,000	$19.2 R^2$

R is the separation distance in meters

Table 2: Single RF Sources Subject to Routine Evaluation

(b)(3)(ii)(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using (b)(3)(i)(B) for P_{th}

b = number of fixed, mobile, or portable RF sources claiming exemption using (b)(3)(i)(C) for ERP_{th}

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm

$P_{th,i}$ = the exemption threshold power (P_{th}) according to (b)(3)(i)(B) for fixed, mobile, or portable RF source i

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of (b)(3)(i)(C)

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k , as applicable from 1.1310

3.1.1.3 FCC 47 CFR 1.1310: Radiofrequency radiation exposure limits

(e)(1) Table 1 – Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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 – 1,500			f/300	< 6
1,500 – 100,000			5	< 6
(ii) 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 – 1,500			f/1500	< 30
1,500 – 100,000			1.0	< 30

f = frequency in MHz

* = Plane-wave equivalent power density

Table 3: Limits for Maximum Permissible Exposure (MPE)

(e)(2) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

3.1.1.4 FCC 47 CFR 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

(c) (1): Evaluation of compliance with the exposure limits in 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for mobile devices with single RF sources having either more than an available maximum time averaged power of 1 mW or more than the ERP listed in table 1 of 1.1307(b)(3)(i)(C), whichever is greater.



3.1.2 FCC Measurement Data and Results:

Date Performed: 30-July-2025
Measurements: refer to measurements from Test Report:
E10788-2502 Cooper TS110A-900 FCC-ISED Rev2.0

Peak Output Power: 16.82 dBm, 48.08mW – Radiated
Duty Cycle Corr.(100ms): 18.44ms ON; 81.56ms OFF (20log (On/Off)) = - 12.91dB
Peak Output Corr'd: 16.82dBm – 12.91dB= 3.91dBm = 2.46mW
(refer to measurements from Test Report Page 16 Table 2:

Separation Distance 5.82mm
(Shortest measured distance between the radio and the outside surface of the unit for 900MHz unit)

Frequency Range: 903.75 to 927.55 MHz

Reference: KDB 447498 D04 Interim General RF Exposure Guidance v01 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

Using the Maximum Permissible Exposure (MPE) threshold table above in section 3.1.1.3, taken from FCC 47 CFR 1.1310(e)(1), the limit for occupational/uncontrolled exposure at 900 MHz is:

$$MPE_{900MHz} = 601 \text{ mW/cm}^2$$

The plane-wave power density calculation for the transmitter is:

$$S = \frac{P_{mW} * G_{ant}}{4\pi * R_{cm}^2} \text{ mW/cm}^2$$

Where,

S = power density
 P_{mW} = conducted output power in mW
 G_{ant} = linear antenna gain
 R_{cm} = the separation distance in cm

$$S_{Tx1_BLE} = \frac{2.46 \text{ mW}}{4\pi * 0.582^2} = 0.578 \text{ mW/cm}^2$$

Transmitter	Detail	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Result
Tx ₁	902MHz BLE	0.578	0.601	Complies

Table 4: FCC RF Exposure Evaluation Results

3.2 RF Exposure Evaluation – Innovation, Science and Economic Development Canada (ISED)

Date Performed:	30-July-2025
Test Standard:	RSS-102 Issue 6
Test Method:	KDB 447498 D01
Modifications:	None
Final Result:	Complies

3.2.1 Applicable Regulations

3.2.1.1 ISED – RSS-102

Section 6.1 General

All transmitters are exempt from routine NS, SAR, APD, IPD and/or FRL exposure evaluations provided that they comply with the appropriate requirements specified in the following sections. If the equipment under test (EUT) meets the appropriate requirements outlined in the following sections, applicants are required to submit a properly signed declaration of compliance (refer to annex B).

In addition, the following information, where applicable, shall also be part of the RF exposure technical brief:

- the root mean square (RMS) current
- the number of turns of the coil
- the maximum output power
- the information that demonstrates how the maximum output power of the transmitter was derived
- the rationale for the separation distances applied (see table 10, table 11 and table 12), which must be based on the most conservative exposure condition for the applicable radio apparatus module or host platform test procedure requirements

For an EUT that overlaps a frequency range with 2 types of evaluation (e.g. below 6 GHz and above 6 GHz), both exemption limits (e.g. SAR exemption limit and the APD exemption limit) shall be met to be exempt from the routine evaluation(s).

If the EUT does not meet the appropriate exemption limit, a complete NS, SAR, APD, IPD and/or FRL evaluation shall be performed. However, the exemption limits in table 10, table 11 and table 12, may be applied to reduce the number of test configurations (e.g. possibly eliminating the need for testing of a tablet edge). The RF exposure technical brief (refer to section 4.3) shall include a rationale for the separation distances applied, based on the applicable radio apparatus module or host platform test procedure requirements.

- It is emphasized that exemption from routine evaluation is **not** an exemption from compliance with the applicable exposure limit(s) and the other relevant requirements.

Section 3.2 RF Exposure Evaluation of Devices:

A device requiring an RF exposure evaluation shall be made in accordance with the latest version of IEEE C95.3.

If the device is designed such that more than one antenna can functionally transmit at the same time, the RF exposure evaluation shall be conducted while all antennas are transmitting. The individual exposure level ratios shall be totalled and used for compliance purposes.

If the device has more than one antenna but is not designed to have more than one antenna functionally transmit at the same time, the RF exposure evaluation of the device shall be performed for each of the individually transmitting antennas. The maximum RF field strength value shall be recorded and used for compliance purposes.

If the device combines groups of simultaneous and non-simultaneous transmitting antennas, the worst-case of the above scenarios applies.

Section 4 Exposure Limits:

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)				
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (Minutes)
0.003 – 10	83	90	-	Instantaneous*
0.1 – 10	-	0.73 / f	-	6**
1.1 – 10	87 / f ^{0.5}	-	-	6**
10 – 20	27.46	0.0728	2	6
20 – 48	58.07 / f ^{0.25}	0.1540 / f ^{0.25}	8.944 / f ^{0.5}	6
48 – 300	22.06	0.05852	1.291	6
300 – 6000	3.142 f^{0.25}	0.008335 f^{0.25}	0.02619 f^{0.5}	6
6000 – 15000	61.4	0.163	10	6
15000 – 150000	61.4	0.163	10	616000 / f ^{1.2}
150000 – 300000	0.158 f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000 / f ^{1.2}

Note: f is frequency in MHz.

* Based on nerve stimulation (NS).

** Based on specific absorption rate (SAR).

Table 5: ISED Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

RF Field Strength Limits for Controlled Use Devices (Controlled Environment)				
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (Minutes)
0.003 – 10	170	180	-	Instantaneous*
0.1 – 10	-	1.6 / f	-	6**
1.1 – 10	193 / f ^{0.5}	-	-	6**
10 – 20	61.4	0.163	10	6
20 – 48	129.8 / f ^{0.25}	0.3444 / f ^{0.25}	44.72 / f ^{0.5}	6
48 – 300	49.33	0.1309	6.455	6
300 – 6000	15.60 f ^{0.25}	0.04138 f ^{0.25}	0.6455 f ^{0.5}	6
6000 – 15000	137	0.364	50	6
15000 – 150000	137	0.364	50	616000 / f ^{1.2}
150000 – 300000	0.354 f ^{0.5}	9.4 x 10 ⁻⁴ f ^{0.5}	3.33 x 10 ⁻⁴ f	616000 / f ^{1.2}

Note: f is frequency in MHz.

* Based on nerve stimulation (NS).

** Based on specific absorption rate (SAR).

Table 6: ISED Field Strength Limits for Controlled Use Devices (Controlled Environments)

3.2.2 ISED Measurement Data and Results:

From the RSS-102 limits for RF field strength limits in uncontrolled environments, the maximum power density at 902 MHz is **0.02619 f^{0.5}** (74.70 W/m²) and which is 7.470 mW/cm².

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Transmitter	Detail	Power Density (mW/cm ²) ^{Note 1}	Power Density Limit (mW/cm ²) ^{Note 2}	Result
Tx ₁	902MHz BLE	0.578	7.470	Complies

Note 1: See section 3.1.1 for calculation of transmitter power density

Note 2: Power density limit converted from W/m² to mW/cm²

Table 7: RSS-102 Exposure Evaluation

Appendix A: ABBREVIATIONS

Abbreviation	Definition
AC	Alternating Current
AM	Amplitude Modulation
CE	European Conformity
CISPR	Comité International Spécial des Perturbations Radioélectriques (International Special Committee on Radio Interference)
DC	Direct Current
EFT	Electrical Fast Transient
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ESD	Electrostatic Discharge
EUT	Equipment Under Test
FCC	Federal Communications Commission
FVIN	Firmware Version Identification Number FVIN
ICES	Interference Causing Equipment Standard
IEC	International Electrotechnical Commission
ISED	Innovation, Science and Economic Development (Canada)
LISN	Line Impedance Stabilizing Network
OATS	Open Area Test Site
RCM	Regulatory Compliance Mark
RF	Radio Frequency
RMS	Root-Mean-Square
SAC	Semi-Anechoic Chamber
UKCA	UK Conformity Assessed

END OF REPORT