




## **Exhibit: RF Exposure – FCC**

FCC ID: AS57705SARHMC-1  
Contain FCC ID:2AU8H-MG401

Report File #: 7169010408-FCC\_MPE

Client	Nokia Canada Inc	
Product	7705 SAR-Hmc NA(3HE12472AA)	
Standard(s)	FCC KDB 447498:2015	

## RF Exposure - FCC

The EUT transmits in several bands as depicted in the table below.

Table 1. Worst-Case Scenario of Maximum Power Output – dBm/10MHz

Radio Type	Band	47 CFR Rule Part	Frequency (MHz)	Max Power (dBm)	Max Power (mW)
LTE	48	96	3560.0	16.52	44.87
			3625.0	19.46	88.31
			3690.0	15.42	34.83

## Radiofrequency Radiation Exposure Evaluation: Mobile Devices

Mobile devices shall be evaluated for RF radiation exposure according to the provisions of [FCC §2.1091 \(d\) \(2\)](#) (with Amendment 85 [FR18146](#), April 1, 2020) and the MPE guidelines identified in [FCC §1.1310](#).

As per FCC §1.1310 Table 1(B), the limit for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields for General Population/Uncontrolled Exposure in the frequency range of:

✓ 1.5GHz to 100GHz is 1.0 mW/cm<sup>2</sup>.

The power density can be calculate using the formula:

$$P_d = (P_{out} * G) / (4 * \pi * R^2)$$

where,

f = frequency in MHz

P<sub>d</sub> = Power density in mW/cm<sup>2</sup>

P<sub>out</sub> = Conducted output power to antenna in mW

G = Numeric Antenna Gain

Pi = 3.1416

R1 = 20 cm

G = 7.2dBi

## MPE Calculation:

For user general use at 20 cm distance, the maximum conducted output power of 18.32dBm, the EUT complies with limits of General Population/Uncontrolled Exposure according to Table 2.


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Table 2. Uncontrolled Exposure at 20cm distance and 2dBm Power Output

Type	Lower (MHz)	Upper (MHz)	Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Calculated (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass/Fail
LTE	3560	3690	19.46	7.1	26.56	452.89	0.709	1.00 <Note 1>	Pass
WLAN2.4GHz Band	2412	-	23 <Note 2>	5.0 <Note 2>	28	630.96	0.126	1.00 <Note 1>	Pass
WLAN5GHz Band	5180	-	23 <Note 2>	5.0 <Note 2>	28	630.96	0.126	1.00 <Note 1>	Pass
Bluetooth	2401	-	23 <Note 2>	5.0 <Note 2>	28	100.00	0.020	1.00 <Note 1>	Pass
Note 1. Limit according to General Uncontrolled Exposure: <a href="#">Table 1 to §1.1310(e)(2) 1mW/cm²</a> Note 2. Page 9 in RF Exposure Evaluation Report (2AU8H-MG401).									

The EUT meets the requirements