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**16740 Peters Road**  
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## **MPE REPORT**

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**Manufacturer:** Nextfour Solutions Oy  
Voimakatu 18  
20520 Turku, FINLAND

**Applicant:** Same as Above

**Product Name:** WiFi/BT M.2 Module  
Cellular Modem

**Product Description:** Wi-Fi/BT Module  
Cellular Modem

**Model:** 9260NGW

**FCC ID:** 2AYT7-9260

**Testing Commenced:** 2021-05-19

**Testing Ended:** 2021-06-09

**Test Results:** In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Standards:**

- KDB447498



Order Number: F2P24629

Applicant: Nextfour Solutions Oy  
Model: 9260NGW

**Evaluation Conducted by:**

Julius Chiller, EMC/Wireless Engineer

**Report Reviewed by:**

Ken Littell, Vice President of EMC

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**1 ADMINISTRATIVE INFORMATION**

**1.1 Measurement Location:**

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

**1.2 Measurement Procedure:**

All measurements were performed according to KDB558074.

**1.4 Document History**

Document Number	Description	Issue Date	Approved By
F2P24629-03E	First Issue	2021-08-23	K. Littell



**2 SUMMARY OF TEST RESULTS**

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None



**Order Number: F2P24629**

**Applicant: Nextfour Solutions Oy**  
**Model: 9260NGW**

### **3 ENGINEERING STATEMENT**

This report has been prepared on behalf of Nextfour Solutions Oy to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



#### 4 EUT INFORMATION AND DATA

##### 4.1 Equipment Under Test:

Product: **WiFi/BT M.2 Module, Cellular Modem**  
Model: **9260NGW**  
Serial No.: None Specified  
FCC ID: **2AYT7-9260**

##### 4.2 Trade Name:

Nextfour Solutions Oy

##### 4.3 Power Supply:

XP Power VEC65US12

##### 4.4 Applicable Rules:

- KDB447498

##### 4.5 Equipment Category:

Radio Transmitter-DTS

##### 4.6 Antenna:

Internal non-removable

##### 4.7 Accessories:

N/A

##### 4.8 Test Item Condition:

The equipment to be tested was received in good condition.



**5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN**

**5.1 Requirements: Distance used is 20cm**

**Limit:** 1mW/cm<sup>2</sup> for frequencies 1500–100000 MHz  
F/1500 for frequencies 300 - 1500

**Results:**

**WCDMA Band II** - MPE: 1852.4 – 1907.6 MHz; the highest EIRP is 316.23mW.  
MPE=16.23mW/5026.55 = **0.063 mW/cm<sup>2</sup>**. MPE limit = 1 mW/cm<sup>2</sup>. **MPE Ratio = 0.063/1 = 0.063**

**WCDMA Band V** - MPE: 826.4 – 846.6 MHz; the highest EIRP is 316.23mW.  
MPE=316.23mW/5026.55 = **0.063 mW/cm<sup>2</sup>**. MPE limit = F/1500=826.4/1500=0.551 mW/cm<sup>2</sup>.

**MPE Ratio = 0.063/0.551 = 0.11**

**Band 2** - MPE: 1850 – 1910 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm<sup>2</sup>**. MPE limit = 1 mW/cm<sup>2</sup>. MPE Ratio = 0.074/1 = **0.074**

**Band 4** - MPE: 1710 – 1785 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm<sup>2</sup>**. MPE limit = 1 mW/cm<sup>2</sup>. MPE Ratio = 0.074/1 = **0.074**

**Band 12** - MPE: 698 – 716 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm<sup>2</sup>**. MPE limit = F/1500 = 0.465mW/cm<sup>2</sup>. MPE Ratio = 0.074/0.465 = **0.16**

**Band 17** - MPE: 704 – 716 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm<sup>2</sup>**. MPE limit = F/1500=704/1500=0.469mW/cm<sup>2</sup>. **MPE Ratio = 0.074/0.469 = 0.158**

**2.4 GHz WiFi –802.11n20 which is the highest** - the highest EIRP is 2075mW.

MPE = 2075mW/5026.55 = **0.413 mW/cm<sup>2</sup>**. MPE limit = 1 mW/cm<sup>2</sup>. **MPE ratio = 0.413/1 = 0.413**

**BLE** – the highest EIRP is 21.10mW. MPE = 21.10mW/5026.55 = **0.004 mW/cm<sup>2</sup>**. MPE limit = 1 mW/cm<sup>2</sup>. **MPE ratio = 0.004/1 = 0.004.**

**Combined MPE Ratio Cellular + WiFi = 0.16 + 0.413 = 0.573 = < 1.**

**Combined MPE Ratio Cellular + BLE = 0.16 + 0.004 = 0.164 = < 1.**