




<b>RF-EXPOSURE REPORT</b> <b>FCC 47 CFR Part 2.1091</b> <b>ISED RSS-102</b> <b>Maximum permissible exposure</b>	
<b>Report Reference No</b>	G0M-2108-9951-TFC091MP1-V02
<b>Testing Laboratory</b>	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 <p>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Test Firm Designation Number: DE0008 ISED Testing Laboratory site: 3470A-2</p>
<b>Applicant</b>	Panasonic Industrial Devices Europe GmbH
<b>Address</b>	Zeppelinstr. 19 21337 Lüneburg GERMANY
<b>Test Specification</b>	According to FCC/ISED rules
Standard	FCC 47 CFR 2.1091 ISED RSS-102
Non-Standard Test Method	None
<b>Equipment under Test (EUT):</b>	
Product Description	Wi-Fi Dual Band 2.4/5 GHz and Bluetooth Module
Model(s)	ENWF9408A1EF
Additional Model(s)	None
Brand Name(s)	PAN9028
Hardware Version(s)	04
Software Version(s)	01
FCC ID	T7V9028
IC	216Q-9028
<b>Test Result</b>	<b>PASSED</b>

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2021-12-02	
Report:		
Compiled by	Charline Graf	
Tested by (+ signature) (Responsible for Test)	Charline Graf	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2022-06-01	
Total number of pages	19	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
Additional Comments:		

**ADDITIONAL VARIANTS**

Additional Variants (not tested and not evaluated variants)		
Not-tested Variant	Description	
1	Product Type Description	Wi-Fi Dual Band 2.4/5 GHz and Bluetooth Module
	Model name	ENWF9408A2EF
	Brand name	PAN9028
	Hardware Version	04
	Software Version	01
	PMN	PAN9028
	HVIN	ENWF9408A2EF
	FVIN	n/a
	HMN	n/a
Comment: Those named additional variants above have not been tested. Those additional variants of the series have been declared by the manufacturer. The test report explicitly states that those variants were neither tested nor assessed nor evaluated.		

**VERSION HISTORY**

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-05-06	Initial Release	
02	2022-06-01	Antenna Gain corrected.	C. Graf

**ABBREVIATIONS AND ACRONYMS**

Acronyms	
Acronym	Description
EIRP	Equivalent Isotropic Radiated Power
EUT	Equipment Under Test
MPE	Maximum Permissible Exposure

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## 1 Equipment (Test Item) Under Test

Description	Wi-Fi Dual Band 2.4/5 GHz and Bluetooth Module
Model	ENWF9408A1EF
Additional Model(s)	None
Brand Name(s)	PAN9028
Serial Number(s)	Prototype
Hardware Version(s)	04
Software Version(s)	01
PMN	PAN9028
HVIN	ENWF9408A1EF
FVIN	N/A
HMN	N/A
FCC ID	T7V9028
IC	216Q-9028
Equipment type	Radio module
Environment	General public

## 1.1 Reference Documents

Document Type	Document No.	Issued by	Date
Radio Test Report FCC 47 CFR Part 15C RSS-247 Issue 2	G0M-2101-9569- TFC247BL-V01	Eurofins Product Service GmbH	2021-08-20
Radio Test Report FCC 47 CFR Part 15C RSS-247 Issue 2	G0M-2101-9569- TFC247BT-V01	Eurofins Product Service GmbH	2021-08-20
Radio Test Report FCC 47 CFR Part 15C RSS-247 Issue 2	G0M-2101-9569- TFC247WF-V01	Eurofins Product Service GmbH	2021-08-20
Radio Test Report FCC 47 CFR Part 15E	G0M-2101-9569- TFC407WF-V02	Eurofins Product Service GmbH	2022-05-27



## 1.2 Power density radiation sources

Mode	Operating Frequency [MHz]	Maximum conducted power [dBm]	Maximum radiated power [dBm EIRP]	Maximum duty cycle [%]	Maximum antenna gain [dBi]	Maximum antenna diameter [cm]
Bluetooth	2440	3.009	4.809	64	1.8	N/A
Bluetooth LE	2440	5.623	7.423	78	1.8	N/A
IEEE 802.11 (2.4 GHz)	2462	24.67	26.47	98.6	1.8	N/A
IEEE 802.11 (U-NII-1)	5240	18.3	21.2	98.9	2.9	N/A
IEEE 802.11 (U-NII-3)	5755	10.2	14.2	98.4	4.0	N/A
Comment:						

## 1.3 Field strength radiation sources

None

## 1.4 Concurrent Sources

No concurrent radiation sources

## 2 Result Summary

FCC MPE Evaluation - Single radiation sources					
Product Standard Reference	Requirement	Reference Method	Mode	Distance [m]	Verdict
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	Bluetooth	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	Bluetooth LE	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	IEEE 802.11 (2.4 GHz)	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	IEEE 802.11 (U-NII-1)	0.20	PASS
47 CFR 2.1091	Maximum permissible exposure	FCC KDB 447498	IEEE 802.11 (U-NII-3)	0.20	PASS
Comment:					

ISED MPE Evaluation - Single radiation sources					
Product Standard Reference	Requirement	Reference Method	Mode	Distance [m]	Verdict
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	Bluetooth	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	Bluetooth LE	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	IEEE 802.11 (2.4 GHz)	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	IEEE 802.11 (U-NII-1)	0.20	PASS
ISED RSS-102	Maximum permissible exposure	ISED RSS-102	IEEE 802.11 (U-NII-3)	0.20	PASS
Comment:					

### 3 RF-Exposure classification

RF-Exposure Categories	
Fixed	A fixed device is defined as a device physically secured at one fixed location and cannot be easily re-located.
Mobile	A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.
Portable	A portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

RF-Exposure Categories	
Occupational / Controlled	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. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
General population / Uncontrolled	Exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

#### 4 RF-Exposure limits

FCC Limits – General Population / Uncontrolled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m <sup>2</sup> ]	Averaging time [min]
0.3 – 1.34	614	1.63	1000	30
1.34 – 30	824/f	2.19/f	1800/f <sup>2</sup>	30
30 – 300	27.5	0.073	2	30
300 – 1500	-	-	f/150	30
1500 – 100000	-	-	10.0	30

FCC Limits – Occupational / Controlled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m <sup>2</sup> ]	Averaging time [min]
0.3 – 3.0	614	1.63	1000	6
3.0 – 30	1842/f	4.89/f	9000/f <sup>2</sup>	6
30 – 300	61.4	0.163	10.0	6
300 – 1500	-	-	f/30	6
1500 – 100000	-	-	50	6

ISED Limits – General Population / Uncontrolled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m <sup>2</sup> ]	Averaging time [min]
0.003 – 10	83	90	-	Instantaneous
0.1 – 10	-	0.73/f	-	6
1.1 – 10	87/f <sup>0.5</sup>	-	-	6
10 – 20	27.46	0.0728	2	6
20 – 48	58.07/f <sup>0.5</sup>	0.1540/f <sup>0.25</sup>	8.944/f <sup>0.5</sup>	6
48 – 300	22.06	0.05852	1.291	6
300 – 6000	3.142·f <sup>0.3417</sup>	0.008335·f <sup>0.3417</sup>	0.02619·f <sup>0.6834</sup>	6
6000 – 15000	61.4	0.163	10	6
15000 – 150000	61.4	0.163	10	616000/f <sup>1.2</sup>
150000 – 300000	0.158·f <sup>0.5</sup>	4.21·10 <sup>-4</sup> ·f <sup>0.5</sup>	6.67·10 <sup>-5</sup> ·f	616000/f <sup>1.2</sup>

ISED Limits – Occupational / Controlled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m <sup>2</sup> ]	Averaging time [min]
0.003 – 10	170	180	-	Instantaneous
0.1 – 10	-	1.6/f	-	6
1.1 – 10	193/f <sup>0.5</sup>	-	-	6
10 – 20	61.4	0.163	10	6
20 – 48	129.8/f <sup>0.5</sup>	0.3444/f <sup>0.25</sup>	44.72/f <sup>0.5</sup>	6
48 – 300	49.33	0.1309	6.455	6
300 – 6000	15.60·f <sup>0.25</sup>	0.04138·f <sup>0.25</sup>	0.6455·f <sup>0.5</sup>	6
6000 – 15000	137	0.364	50	6
15000 – 150000	137	0.364	50	616000/f <sup>1.2</sup>
150000 – 300000	0.354·f <sup>0.5</sup>	9.40·10 <sup>-4</sup> ·f <sup>0.5</sup>	3.33·10 <sup>-4</sup> ·f	616000/f <sup>1.2</sup>

## 5 RF-Exposure Evaluation

Evaluation Relations
$\lambda[m] = \frac{c \left[ \frac{m}{s} \right]}{f[Hz]} ; R_{FF}[m] \geq \frac{2 \cdot D[m]^2}{\lambda[m]}$
$S[W/m^2] = \frac{P_{E.I.R.P.}[W]}{4\pi R[m]^2} ; R[m] = \sqrt{\frac{P_{E.I.R.P.}[W]}{4\pi S[W/m^2]}}$
$DCC [dB] = 10 \cdot \text{Log}_{10} \left( \frac{DC[\%]}{100} \right)$
$\sum_{i=1}^N \frac{S_i \left[ \frac{W}{m^2} \right]}{S_{Li} \left[ \frac{W}{m^2} \right]} + \sum_{j=1}^M \left( \frac{E_j \left[ \frac{V}{m} \right]}{E_{Lj} \left[ \frac{V}{m} \right]} \right)^2 + \sum_{k=1}^o \left( \frac{H_k \left[ \frac{A}{m} \right]}{H_{Lk} \left[ \frac{A}{m} \right]} \right)^2 < 1$

Evaluation Procedure
<p><u>Standalone operation evaluation:</u></p> <p>For each radio and frequency band the worst case transmission mode with the highest peak conducted or radiated power is evaluated at the frequency that results in the most restrictive rf-exposure limit. From the peak power values, antenna gains and duty cycles taken from the reference documents, the source average radiated power values are calculated. From the average radiated power the power densities at antenna far-field distance is calculated. The distance from the radiation source for compliance power density is calculated. If the separation distance is lower than the far-field distance, the far-field distance is given as compliance separation distance because the plane wave power density assessment is only valid in the far-field of the radiation source.</p> <p>For radiation sources for which the average electric and magnetic fields are measured using field probes, the measured field strength values are compared to the reference limits. For those sources no calculations are performed. Compliance with the reference values is determined with the near field measurements.</p>
<p><u>Concurrent operation evaluation:</u></p> <p>First the evaluation distance is set to an appropriate value. For all radiation sources for which power densities are calculated, the power densities at the evaluation distance are calculated and for all other sources the electric or magnetic field strengths are measured using field probes. Finally the ratios of the power densities and/or field strength values and the corresponding limits are calculated and summed and the sum is compared to the maximum of 1.</p>

## 6 Single Source Evaluation Results - FCC

Bluetooth	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2440
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	4.809
Maximum transmission duty cycle (DC)	0.64
Duty cycle correction (DCC) [dB]	-1.94
Average radiated power (PRAVG) [dBm EIRP]	2.87
<b>Power density</b>	
Compliance power density limit [W/m <sup>2</sup> ]	10.000
Power density (S) @ Antenna far-field distance [W/m <sup>2</sup> ]	N/A
Power density (S) @ 0.20 m [W/m <sup>2</sup> ]	0.004
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.004
<b>Compliance</b>	
Verdict	PASS
Comment:	

Bluetooth LE	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2440
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	7.423
Maximum transmission duty cycle (DC)	0.78
Duty cycle correction (DCC) [dB]	-1.08
Average radiated power (PRAVG) [dBm EIRP]	6.34
<b>Power density</b>	
Compliance power density limit [W/m <sup>2</sup> ]	10.000
Power density (S) @ Antenna far-field distance [W/m <sup>2</sup> ]	N/A
Power density (S) @ 0.20 m [W/m <sup>2</sup> ]	0.009
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.006
<b>Compliance</b>	
Verdict	PASS
Comment:	

IEEE 802.11 (2.4 GHz)	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2462
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	26.47
Maximum transmission duty cycle (DC)	0.99
Duty cycle correction (DCC) [dB]	-0.06
Average radiated power (PRAVG) [dBm EIRP]	26.41
<b>Power density</b>	
Compliance power density limit [ $W/m^2$ ]	10.000
Power density (S) @ Antenna far-field distance [ $W/m^2$ ]	N/A
Power density (S) @ 0.20 m [ $W/m^2$ ]	0.870
Power density ratio @ 0.20 m	0.09
Distance for compliance power density (S=SL) [m]	0.059
<b>Compliance</b>	
Verdict	PASS
Comment:	

IEEE 802.11 (U-NII-1)	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	5240
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	21.2
Maximum transmission duty cycle (DC)	0.99
Duty cycle correction (DCC) [dB]	-0.05
Average radiated power (PRAVG) [dBm EIRP]	21.15
<b>Power density</b>	
Compliance power density limit [ $W/m^2$ ]	10.000
Power density (S) @ Antenna far-field distance [ $W/m^2$ ]	N/A
Power density (S) @ 0.20 m [ $W/m^2$ ]	0.259
Power density ratio @ 0.20 m	0.03
Distance for compliance power density (S=SL) [m]	0.032
<b>Compliance</b>	
Verdict	PASS
Comment:	

<b>IEEE 802.11 (U-NII-3)</b>	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	5755
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	14.2
Maximum transmission duty cycle (DC)	0.98
Duty cycle correction (DCC) [dB]	-0.07
Average radiated power (PRAVG) [dBm EIRP]	14.13
<b>Power density</b>	
Compliance power density limit [W/m <sup>2</sup> ]	10.000
Power density (S) @ Antenna far-field distance [W/m <sup>2</sup> ]	N/A
Power density (S) @ 0.20 m [W/m <sup>2</sup> ]	0.051
Power density ratio @ 0.20 m	0.01
Distance for compliance power density (S=SL) [m]	0.014
<b>Compliance</b>	
Verdict	PASS
Comment:	



## 7 Single Source Evaluation Results - ISED

Bluetooth	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2440
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	4.809
Maximum transmission duty cycle (DC)	0.64
Duty cycle correction (DCC) [dB]	-1.94
Average radiated power (PRAVG) [dBm EIRP]	2.87
<b>Power density</b>	
Compliance power density limit [W/m <sup>2</sup> ]	5.409
Power density (S) @ Antenna far-field distance [W/m <sup>2</sup> ]	N/A
Power density (S) @ 0.20 m [W/m <sup>2</sup> ]	0.004
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.005
<b>Compliance</b>	
Verdict	PASS
Comment:	

Bluetooth LE	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2440
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	7.423
Maximum transmission duty cycle (DC)	0.78
Duty cycle correction (DCC) [dB]	-1.08
Average radiated power (PRAVG) [dBm EIRP]	6.34
<b>Power density</b>	
Compliance power density limit [W/m <sup>2</sup> ]	5.409
Power density (S) @ Antenna far-field distance [W/m <sup>2</sup> ]	N/A
Power density (S) @ 0.20 m [W/m <sup>2</sup> ]	0.009
Power density ratio @ 0.20 m	0.00
Distance for compliance power density (S=SL) [m]	0.008
<b>Compliance</b>	
Verdict	PASS
Comment:	

IEEE 802.11 (2.4 GHz)	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	2462
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	26.47
Maximum transmission duty cycle (DC)	0.99
Duty cycle correction (DCC) [dB]	-0.06
Average radiated power (PRAVG) [dBm EIRP]	26.41
<b>Power density</b>	
Compliance power density limit [ $W/m^2$ ]	5.442
Power density (S) @ Antenna far-field distance [ $W/m^2$ ]	N/A
Power density (S) @ 0.20 m [ $W/m^2$ ]	0.870
Power density ratio @ 0.20 m	0.16
Distance for compliance power density (S=SL) [m]	0.080
<b>Compliance</b>	
Verdict	PASS
Comment:	

IEEE 802.11 (U-NII-1)	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	5240
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	21.2
Maximum transmission duty cycle (DC)	0.99
Duty cycle correction (DCC) [dB]	-0.05
Average radiated power (PRAVG) [dBm EIRP]	21.15
<b>Power density</b>	
Compliance power density limit [ $W/m^2$ ]	9.119
Power density (S) @ Antenna far-field distance [ $W/m^2$ ]	N/A
Power density (S) @ 0.20 m [ $W/m^2$ ]	0.259
Power density ratio @ 0.20 m	0.03
Distance for compliance power density (S=SL) [m]	0.034
<b>Compliance</b>	
Verdict	PASS
Comment:	

<b>IEEE 802.11 (U-NII-3)</b>	
<b>Transmission Mode</b>	
Transmission Frequency (f) [MHz]	5755
<b>Antenna far-field distance</b>	
Maximum antenna diameter (D) [m]	N/A
Transmission wavelength ( $\lambda$ ) [m]	N/A
Antenna far-field distance ( $R_{FF}$ ) [m]	N/A
<b>Source average power</b>	
Peak radiated power (PR) [dBm EIRP]	14.2
Maximum transmission duty cycle (DC)	0.98
Duty cycle correction (DCC) [dB]	-0.07
Average radiated power (PRAVG) [dBm EIRP]	14.13
<b>Power density</b>	
Compliance power density limit [ $W/m^2$ ]	9.722
Power density (S) @ Antenna far-field distance [ $W/m^2$ ]	N/A
Power density (S) @ 0.20 m [ $W/m^2$ ]	0.051
Power density ratio @ 0.20 m	0.01
Distance for compliance power density (S=SL) [m]	0.015
<b>Compliance</b>	
Verdict	PASS
Comment:	

=== END OF TEST REPORT ===