
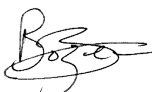


Issued to: -	D-TACQ Solutions Ltd International House Stanley Blvd Hamilton International Park Blantyre G72 0BN	Order No.	DPO-230612-01
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Electromagnetic Compatibility Test/s were performed on the apparatus as detailed: -			
Description	Data acquisition system comprising of a carrier with a number of peripheral DAC, ADC and i/o devices held in carrier slots within the system enclosure.		
Type number	ACQ2206		
Serial Number/s	1		
Configuration/ Mode of Operation	Loopback configuration tests DACs and ADCs for any degradation in the signal from input data (from Laptop PC to carrier) transmitted to the DAC outputs which are connected to the ADC inputs. ADC output data is subsequently transmitted via the carrier back to the laptop PC for display using CS-Studio.		
Date received	30 th June 2023	Date Tested	30 th June 2023 – 10 th July 2023
Specification/s	47CFR Part 15	Sub Part B Unintentional Radiators	
<p>The apparatus to which this certificate relates was tested against the above specifications. Full results are retained on file at Eurofins E&E UK Ltd, Grangemouth laboratory. The apparatus was found to be compliant to the above specifications subject to the following conditions:</p> <p>UKAS Accreditation Tests marked "Not UKAS Accredited" in this certificate are not included in the UKAS Accreditation Schedule for our laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.</p> <p>EUT Submitted These results apply only to the particular EUT submitted, in the configuration used and in the mode of operation tested.</p>			

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Tested by: -	 P Rosa, Senior Test Engineer	Approved signatory: -	 Dr D. Bozec, Laboratories Director
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EMC FORM 044 Issue 36



Abnormalities/Departures from Standard Conditions

The test standards used reference dated and undated basic standards. Where amendments to the standards have been used, these are indicated.

Tests Referenced

47CFR Part 15, Sub Part B Unintentional Radiators; Conducted and Radiated Emission Limits

Which references the following specification: -

ANSI C63-4: 2014 Methods of Measurements of Radio Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range 9kHz to 40GHz.

Test	Levels		Result
Class B device			
Clause 15.107 Conducted Emissions	0.15-0.5MHz	66-56dB μ V QP	Pass
	0.5-5MHz	56dB μ V QP	
	5-30MHz	60dB μ V QP	
	0.15-0.5MHz	56-46dB μ V Ave	
	0.5-5MHz	46dB μ V Ave	
	5-30MHz	50dB μ V Ave	
Clause 15.109 Radiated Emissions	30-88MHz	40.0dB μ V/m QP	Pass
	88-216MHz	43.5dB μ V/m QP	
	216-960MHz	46.0dB μ V/m QP	
	>960MHz	54.0dB μ V/m QP	
Clause 15.109 Radiated Emissions (1-5GHz) (see Note below)	>1GHz	74dB μ V/m Peak 54 dB μ V/m Ave	Pass
	Note: Highest EUT operating frequency: 108 – 500MHz X = 2000MHz 500 – 1000MHz X = 5000MHz >1000MHz X = 5 x Highest frequency or 40GHz whichever is lower		
Maximum EUT clock speed of 533MHz, therefore highest frequency of measurement is: 5GHz			
Eurofins E&E UK Ltd (Grangemouth Laboratory) is an accredited laboratory for measuring devices subject to Declaration of Conformity (DOC) and Certification under the FCC rules.			
The laboratory designation number is UK2018 under the US-UK MRA.			

Note - The Decision Rule is applied on the basis of the following:

- EMC testing - CISPR16-4-2 and/or EN61000-4-x (TR61000-1-6)

These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to JCGM 106:2012, ILAC-G8:09/2019 and LAB 48.

This laboratory has demonstrated by calibrating its equipment and facilities, and calculating its own uncertainties, that it complies with the above requirements and therefore no allowance of uncertainties has been given to the tolerances.

Where a result is considered marginal in respect of its proximity to the limit line, for example, the customer would be made aware of situation so that they can make an informed decision on how to proceed.

Opinions/Interpretations/Additional information

None

-----End of Certificate-----

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Appendix 1

Uncertainty of measurement

MEASUREMENT UNCERTAINTIES
Conducted emissions
Power ports The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 % is +/- 3.44dB for the frequency range from 150kHz to 30MHz
Radiated emissions
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% is +/- 4.9dB for the frequency range 30MHz to 1GHz +/- 5.22dB for the frequency range from 1GHz to 6GHz