## This checklist must be submitted as a PDF as part of your submission.

Name of Certifying Engineer(s): Francesco Paci Email of Certifying Engineer(s): francesco.paci@greenwaves-technologies.com Name(s) of System Under Test: Greenwaves Gap9
Division (check one):
☐ Open
✓ Closed
Category (check one):
✓ Available
☐ Preview
☐ Research, Development, and Internal (RDI)
Benchmark(s) (check all that apply):

- ✓ Visual Wake Words
- √ Keyword Spotting
- ✓ Anomaly Detection
- √ Image Classification

Please fill in the following table adding lines as necessary:

System Under Test Name	Benchmark	Accuracy/AUC
Gap9	Visual Wake Words	83.2 % Accuracy
Gap9	Keyword Spotting	90.0 % Accuracy
Gap9	Anomaly Detection	0.86 AUC
Gap9	Image Classification	87% Accuracy

For each SUT, is the benchmark Accuracy/AUC target met? (Not a requirement for the Open division) (check all that apply):

- ✓ Yes (Visual Wake Words ... 80% Accuracy)
- ✓ Yes (Keyword Spotting ... 90% Accuracy )
- ✓ Yes (Anomaly Detection ... 0.85 AUC)
- ✓ Yes (Image Classification ... 85% Accuracy)
- ☐ No, for some combination of benchmark, scenario and SUT

For each SUT and benchmark, did the submission run on the whole validation set in accuracy mode? (check one):

✓ Yes

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	I No
<b>√</b>	ach SUT and benchmark, does the submission use the EEMBC Runner? (check one) Yes No
	ach SUT and benchmark, is the same code run in accuracy and performance modes?
	Yes I No
	ne weights calibrated using data outside of the official calibration set? (check one)
	I Yes No
What	numerics does the submission use? (check all that apply)
	I INT4
	I INT8
	I INT16
	I UINT8
	I UINT16
	I FP11
	I FP16
	BF16
	FP32
<b>√</b>	Other, please specify: INT <= 8 for weights (Number of bits selected to meet accuracy) and activations INT8
What	backend does the submission use? (check all that apply)
<b>√</b>	Vendor backend, please name: GAPFlow
	TF-Lite Micro
	Micro TVM
	Other, please specify:
	h of the following caching techniques does the submission use? (check all that apply,
	y none):
_	Caching Inputs between iterations
_	- Calcuming reek entress termination
<u>_</u>	Caching intermediate computations between iterations

Which of the following techniques does the submission use? (check all that apply, ideally none if submitting to the closed division.)

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	Quantization aware training
	Wholesale weight replacement
	Weight supplements
	Discarding non-zero weight elements
	Pruning
	Modifying weights during the timed portion of an inference run
	Hard coding the total number of queries
✓	None of the above
s the	submission congruent with all relevant MLPerf rules?
✓	Yes
	No
f the	answer to the above question is no, please explain:
or e	ach SUT, have you filled out the JSON system description file?
✓	Yes
	No
or e	ach SUT, does the submission accurately reflect the real-world performance of the SUT?
✓	Yes
	No
Does	your submission include the following: (check all that apply)
	System description file
✓	Code that implements the benchmarks
	Code/scripts that train the model(s) (Open Division)
	Metadata that describes each system-implementation combination tested
<b>√</b>	- or produced of the area of the control of the con
	Result logs for each system implementation tested
✓	This Checklist