

Query 7TMAGNETOM testing

From helmy.m@protonmail.com <helmy.m@protonmail.com>

To contact@siemens-healthineers.com

Date Monday, May 15th, 2023 at 2:28 PM

Dear Colleague,

[1] This concerns '*Parallel transmit pulse sequence design for ultra-high field (7T) MRI*' by Belinda Yuan Ding, a doctoral thesis published by the University of Cambridge 2023, a link is:

<https://www.repository.cam.ac.uk/items/4dd31bd4-400d-4b12-9c43-abca67f1f>

[2] SIEMENS are not acknowledged by the author of the thesis.

[3] The thesis appears to be an experiment of the *7 T MAGNETOM Terra scanner*. In other words, the thesis appears to be experimenting on humans for the purpose of exploring the output of this SIEMENS product. May you please clarify the role, if any, SIEMENS has for these series of experiments, or experiments in lieu of testing?

[4] To clarify: (i) the research question could not have been 'how does altering the parameters of the device alter the signal?' since the device must come with a manual, and certainly SIEMENS offers training for this superior device; (ii) the research question could not have been 'how does altering the physical properties of the device alter the signal' since at least one SIEMENS engineer must have been present during the experiments/testing, and pursuant to paragraph [2] this was not the case.

[5] To illustrate with an example simple physiologists such as myself may understand: Say I have a German-made scalpel. It comes with the instructions to use German or Japanese blades only, not American as they do not fit. The thesis research question would be something like: 'What if I put in an Indian blade?' or 'What if I poke the patient with the wrong end of the scalpel?'. This is gross over-simplification, and if you may please explain to me why Ding's thesis was necessary for this SIEMENS product, after market release and without SIEMENS supervision, in simple terms, I would appreciate it very much.

I look forward to your reply.

Kind regards,
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