



**Laurent  
Chapus/FRA/VERITAS**

06/25/2007 03:01 AM

To Yunus Faziloglu/USA/VERITAS@VERITAS

cc

bcc

Subject Réf. : Re: Réf. : Fw: CS02499 Tagsys FCC ID:  
QHKWIFILIBINVREAD TCB Questions 📎

Hello Yunus,

Attached is the SAR test report with additionnal information as requested . (2 mails)

For point 5, here is the explanation from the SAR test lab:

*In regards to the point stated in 5, the justification would be; Limitations to the SAR test software. Please note that the area scan used covered the entire 'SAM' phantom flat section. Areas on the scan where the clips are located are points the software is limited to due to the shape of the phantom. There are on clips on the zoom scan which is where the highest SAR level is focused. The SAR value is averaged over the volume of the zoom scan and therefore this should have no impact on the final SAR level measured.*

For point 6, I will send you a letter from TAGSYS (file TAGSYS Statement-QHKWIFILIBINVREAD)

Best regards.



TAGSYS Statement-QHKWIFILIBINVREAD.pdf.zip



SAR Test Report - QHKWIFILIBINVREAD (New - Page 1 to 34 MODIF).pdf.zip



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Yunus Faziloglu

**Yunus Faziloglu**

18/06/2007 20:35

Pour : Laurent Chapus/FRA/VERITAS

cc :

Objet : Re: Réf. : Fw: CS02499 Tagsys FCC ID: QHKWIFILIBINVREAD TCB

## Questions📄

Hello Laurent,

There are a few issues that needs clarification regarding the revised SAR report ,

1. FCC ID on Pg 6 of the report is incorrect.
  2. Please clarify how 1g-SAR target of 53.30 seen on Pg 44 was determined.
  3. There is a validation plot on Pg 25 of the report, but the dates on that plot and on Pg 44 (Appendix 5) do not match. This needs clarification.
  4. SAR plots on Pg 22, 23 and 24 do not seem to have dates on them.
  5. There seem to be clipped areas of the hot spots on the SAR plots (Pg 22-24). How is it ensured that these scans produced the highest SAR?
  6. TAGSYS needs to supply a letter stating that they are using the EMC test data of the radio module from its previous certification FCC ID :MCQ-50M880 and the highest power measured during SAR (18.1dBm) is representing the module manufacturer's rating of 16dBm better than the level listed on the original grant. They also need to state that they are not making any changes to the module or its settings .
- Note: If the power level difference can not be justified , a new EMC report will be needed for the WLAN module, to prove that actual power is less than or equal to 18.1dBm.

Best Regards,

Yunus Faziloglu  
Curtis-Straus LLC  
Bureau Veritas

Laurent Chapus/FRA/VERITAS



**Laurent  
Chapus/FRA/VERITAS**  
06/08/2007 03:20 AM

To Yunus Faziloglu/USA/VERITAS@VERITAS  
cc

Subject Réf. : Fw: CS02499 Tagsys FCC ID: QHKWIFILIBINVREAD  
TCB Questions📄

Hello Yunus,

We have in standby the WIFI LIB INVENTORY READER from TAGSYS.

For point 1, I just would like to remember to you that schematics from DIGI have to be kept confidential .

I will upload following files:

- a new User'Manual with SAR statement and a FCC statement file .
- A new SAR test report with new test results. (For information, the rated output power of the Wifi module is 16dBm, see technical data)
- A new label file.

I think that payment has been done. Let me know if not.

Best regards.

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Yunus Faziloglu

**Yunus Faziloglu**

23/03/2007 13:54

Pour : Laurent Chapus/FRA/VERITAS

cc :

Objet : Fw: CS02499 Tagsys FCC ID: QHKWIFILIBINVREAD TCB Questions

Hi Laurent,

Digi provided the technical details of their module to us , so item 1 is resolved.

Best Regards,

Yunus Faziloglu  
Curtis-Straus LLC  
Bureau Veritas


----- Forwarded by Yunus Faziloglu/USA/VERITAS on 03/23/2007 08:52 AM -----

**Yunus  
Faziloglu/USA/VERITAS**

03/02/2007 05:10 PM

To Laurent Chapus/FRA/VERITAS

cc

Subject CS02499 Tagsys FCC ID: QHKWIFILIBINVREAD TCB  
Questions 

Hi Laurent,

Please address the following issues for this application ,

1. As mentioned earlier this will need to be a composite application . We have the documents for 15.225

portion, but we also need documents for 15.247. The documents we will need are test report, schematics and block diagrams of FCC ID: MCQ-50M880. This will need the original grant holders permission and TAGSYS will need to get their permission and obtain those files. Test report is publicly available on FCC webpage, but schematics and block diagrams are not available as they are confidential.

2. The label should not refer to the WIFI module FCC ID, because this application now covers both under the FCC ID: QHKWIFILIBINVREAD

3. Following issues are related to the manual,

- i. Professional installation warning must be removed. Body worn or hand-held devices can not be professionally installed.
- ii. The following statements as it applies to this device must be included regarding SAR.

[attachment "SAR statements.doc" deleted by Yunus Faziloglu/USA/VERITAS]

4. Following issues are related to SAR test report

a. RF output power listed in SAR report (16dBm) is far less than the module's power listed on its grant (0.26W = 24.15dBm). Does TAGSYS reduce the output power level, before installing it into the reader. If TAGSYS does not want to reduce the power level, SAR test report can not be considered valid with such difference. Ideally the power levels must be equal or power in SAR report must be higher than the EMC report to ensure worst-case.

b. Please supply SAR probe calibration data and certificate.

c. Please supply system validation dipole calibration data and certificate

d. The accessories mentioned in the manual does not appear in SAR setup photos. Please clarify if SAR has been checked with all available accessories.

e. Please clarify the reason for not connecting the external antenna (13.56MHz) during the test? This will be the typical configuration during normal use and it can impact SAR result.

f. Section 2.3 of the report mentions a ferrite for the internal antenna cable. It appears testing was done with and without it. Please supply photos of it and clarify why it is needed.

g. Please specify tissue simulating liquid ingredients.

h. Area and zoom scan procedures must be briefly explained.

i. Please supply the measurement uncertainty components used to calculate the uncertainty value listed in the report.

j. Report does not include photos showing the liquid depth. Please clarify the reason.

k. Some SAR plots show the test date as 19/09/2006. Corresponding validation plot shows the date as 18/09/2006. The dates are expected to match. Please clarify.

Best Regards,

Yunus Faziloglu  
Curtis-Straus LLC  
Bureau Veritas

