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**RE.FCC ID : QTKRM-25 ATCB**

Response to above mentioned reference.

**Items 1 to 5:**

Please note that these items are considered closed from our side.

I have also following comments (for items no 6 & 7) after communicating with our laboratory engineers.

**Item 6. Probe Calibration:**

Probe calibration is valid from 1710 MHz to 1910 MHz, quotes from the Calibration Certificate below:

<b>Head</b>	<b>1800 MHz</b>	<b><math>\epsilon_r = 40.0 \pm 5\%</math></b>	<b><math>\sigma = 1.40 \pm 5\% \text{ mho/m}</math></b>
<b>Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X</b>			
ConvF X	<b>5.2</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Boundary effect:
ConvF Y	<b>5.2</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Alpha <b>0.54</b>
ConvF Z	<b>5.2</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Depth <b>2.56</b>
<b>Body</b>	<b>1800 MHz</b>	<b><math>\epsilon_r = 53.3 \pm 5\%</math></b>	<b><math>\sigma = 1.52 \pm 5\% \text{ mho/m}</math></b>
<b>Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C</b>			
ConvF X	<b>4.9</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Boundary effect:
ConvF Y	<b>4.9</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Alpha <b>0.61</b>
ConvF Z	<b>4.9</b>	<b><math>\pm 9.5\% (k=2)</math></b>	Depth <b>2.60</b>

**Item 7. Tissue parameters:**

Liquid parameters for system verification (4.3.2) and for device testing (4.3.3) have slight difference due to frequency difference between system validation (1900 MHz) and middle of the TX band of the device (1880 MHz). As expected, conductivity is lower and permittivity is higher at 1880 MHz than at 1900 MHz.

Please note that Dasy4 calculates liquid parameters over the band and low channel and high channel values may be slightly different from mid channel values presented on the table in paragraph 4.3.3.

Kind regards



*Ilyas Abdulrahman*

TCC Copenhagen

Product Certification Officer

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