|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | **Doc. Nº:** MA-TRE-4850-001-INTA-23 | |
|  |
| **Page :** 7 of 14 | **Issue:** 1 |

# TEST RESULTS

* 1. **MAGNETIC MOMENT**

The magnetic moment values of the different measurements obtained by dipole approximation of the field, with their uncertainty of the magnetic moment values are shown in the next tables.

**Table 1**. *SMILE DPA Magnetic moment values.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **mx (mA·m2)** | **my (mA·m2)** | **mz (mA·m2)** | **|m| (mA·m2)** | **Expected Value**  **(mA·m2)** |
| **Initial** | 2.8  1.1 | -1.7  1.7 | 1.1  1.5 | 3.5  2.0 | < 50 |
| **After Deperm** | 3.1  1.7 | -2.6  1.3 | 0.6  1.1 | 4.1  2.0 | < 50 |
| **After Perm** | 3.4  1.7 | -1.3  1.6 | 0.9  1.3 | 3.7  2.0 | < 50 |

**Table 2**. *Results*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TEST** | **RESULT** | | **See table** | **Remarks** |
| **PASS** | **FAIL** |
| Magnetic moment | X |  | 1 |  |

# CONCLUSIONS

The measurements of all dipolar magnetic moments of UUT: INTA SMILE DPA, satisfy the total magnetic moment of the specification value (<50 mA⋅m2).