



## REGULATORY TESTING FROM START TO CERTIFICATE

### **Intro**

Antenna gain documentation required for all FCC Part 15 devices. Must provide either an antenna datasheet/ specification or a test report with gain measurements and plots. This Information cannot be held confidential. Additionally, proprietary information of the design itself can remain confidential in either the 'operational description' or 'schematic'.

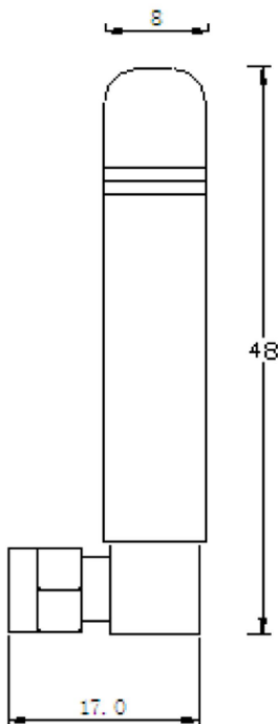


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### Example of antenna specification:

1. Company: Mernok
2. Antenna description

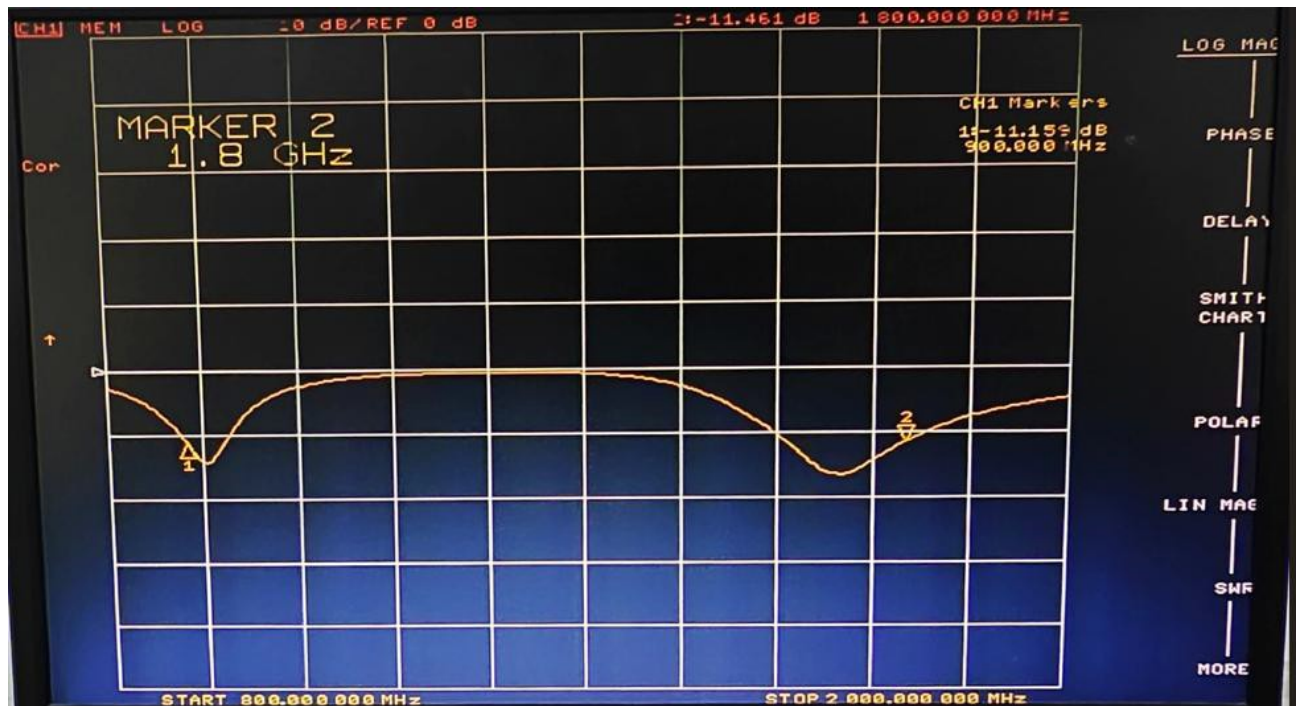
|                         |                    |
|-------------------------|--------------------|
| Antenna type            | Omni-Directional   |
| Antenna manufacturer    | RF Solutions       |
| Frequency range         | 960MHz             |
| Modulation              | GSM                |
| Antenna gain max (peak) | 2dBi               |
| Connector type          | SMA Male connector |



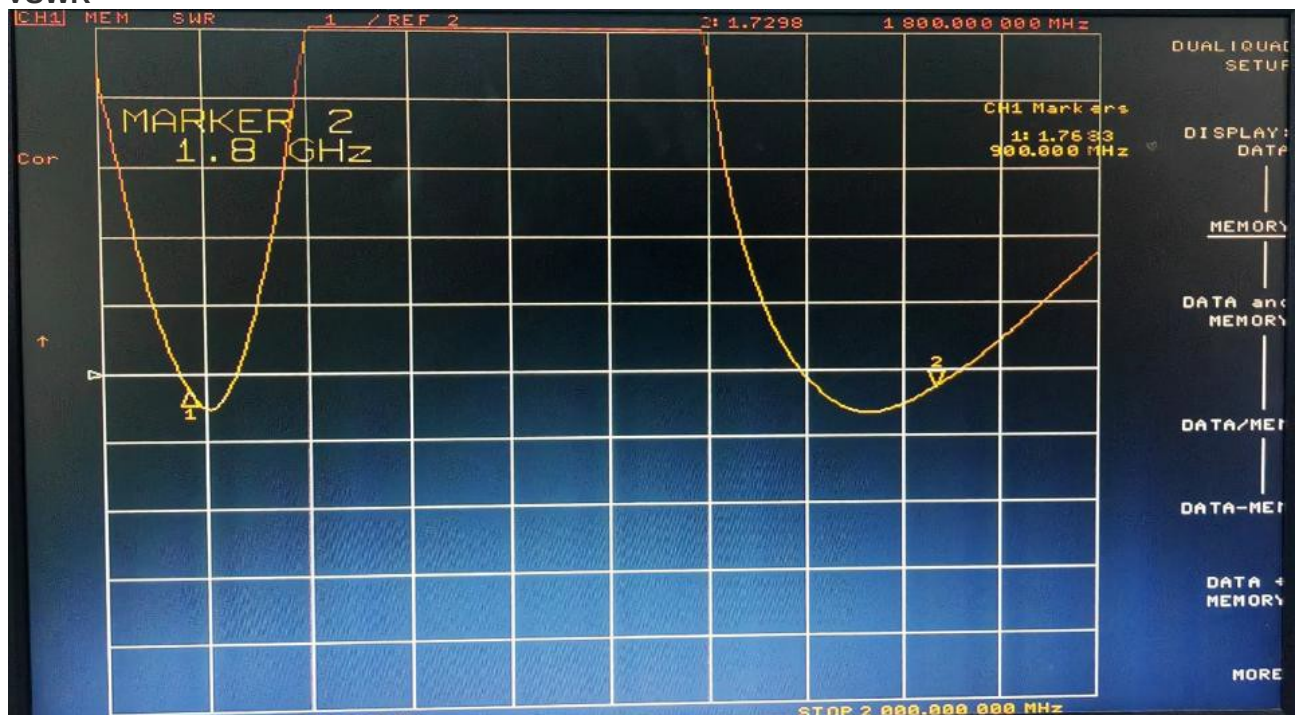
3. Insertion Loss



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## 4. VSWR



Gain:



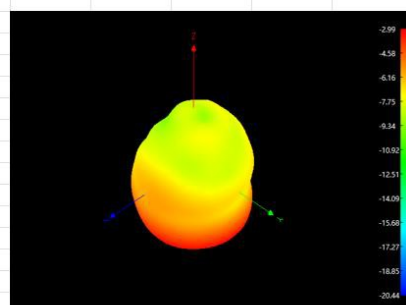
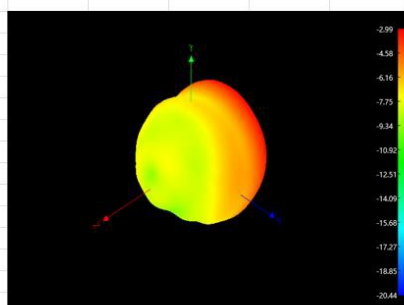
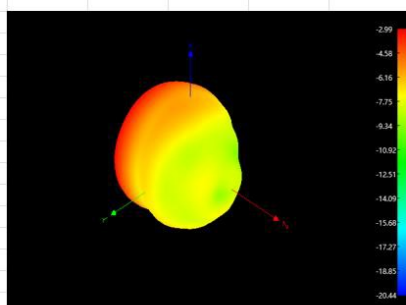
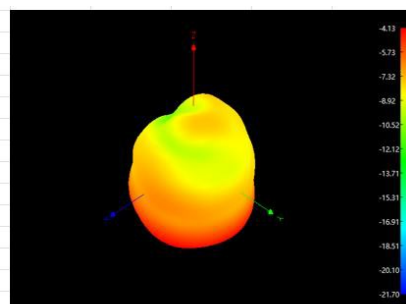
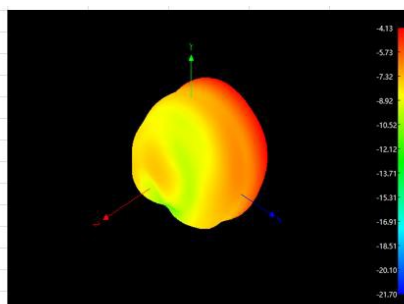
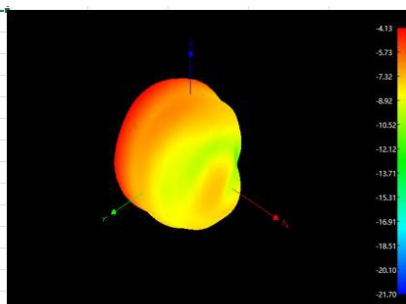
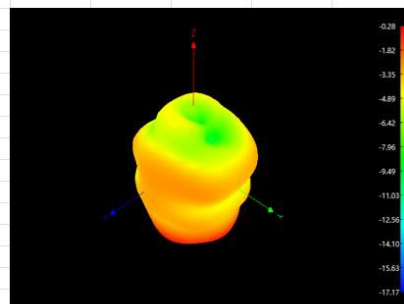
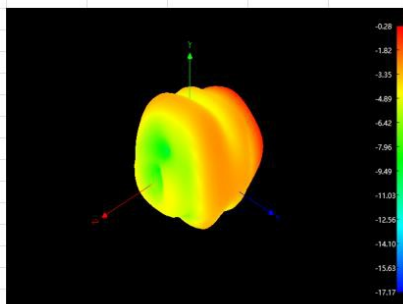
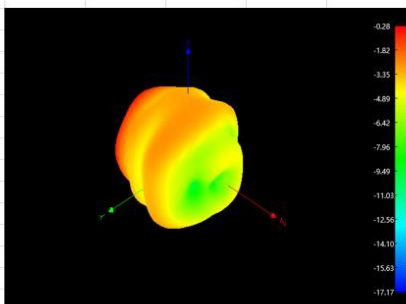
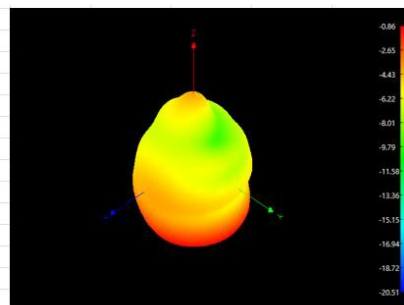
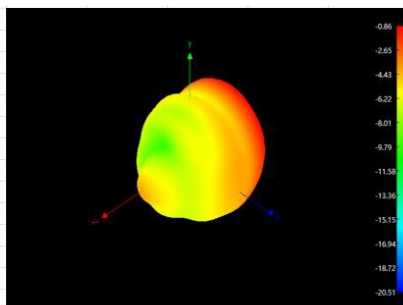
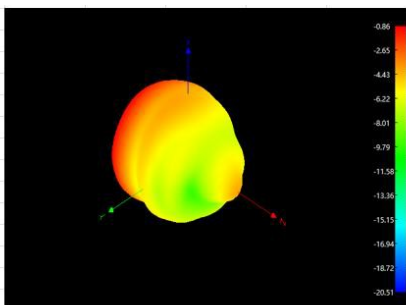
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| Frequency | Efficiency | Efficiency / % |
|-----------|------------|----------------|
| 824       | 0.63       | 11.56          |
| 849       | 1.21       | 13.21          |
| 874       | 2          | 15.49          |
| 899       | 1.85       | 16.22          |
| 900       | 1.9        | 13.21          |
| 915       | 2          | 15.49          |
| 924       | 1.19       | 16.22          |
| 949       | 1.44       | 16.22          |



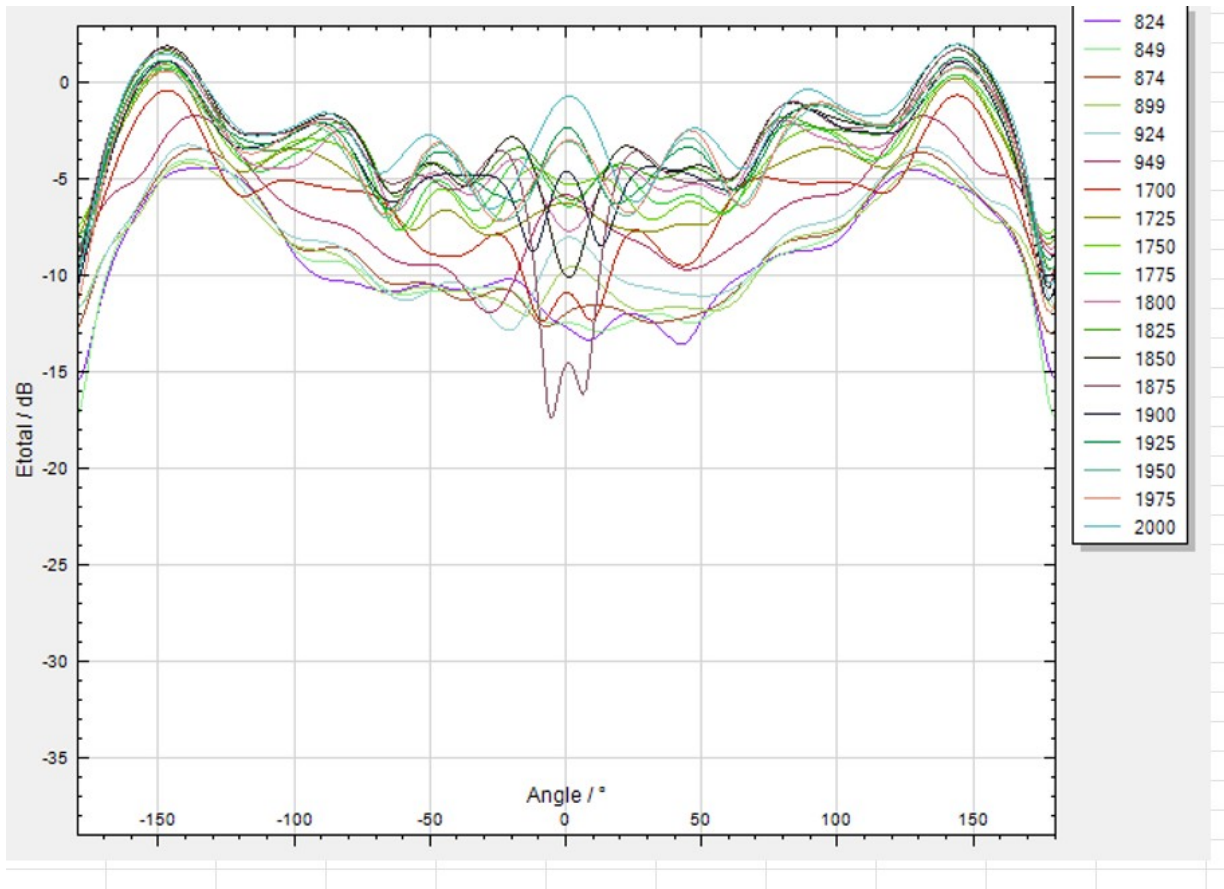
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AvgGain / dBi



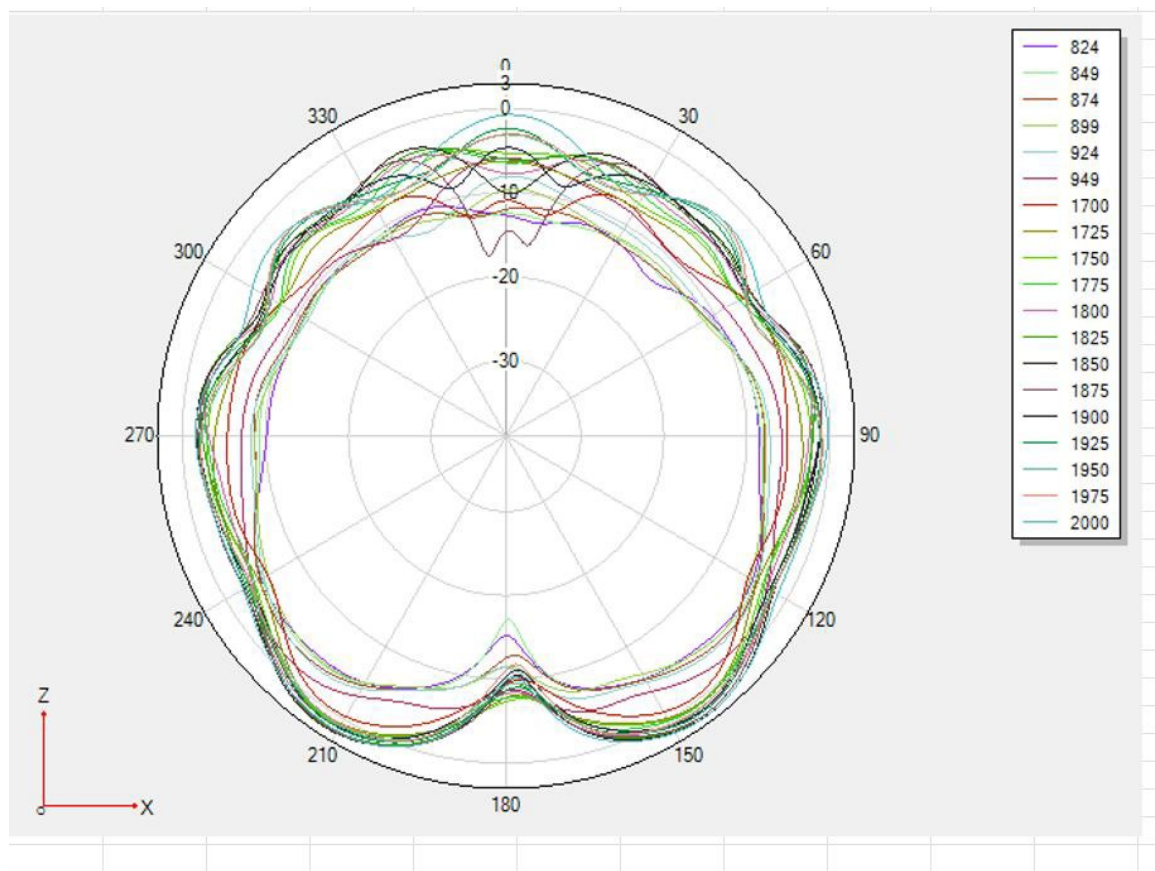


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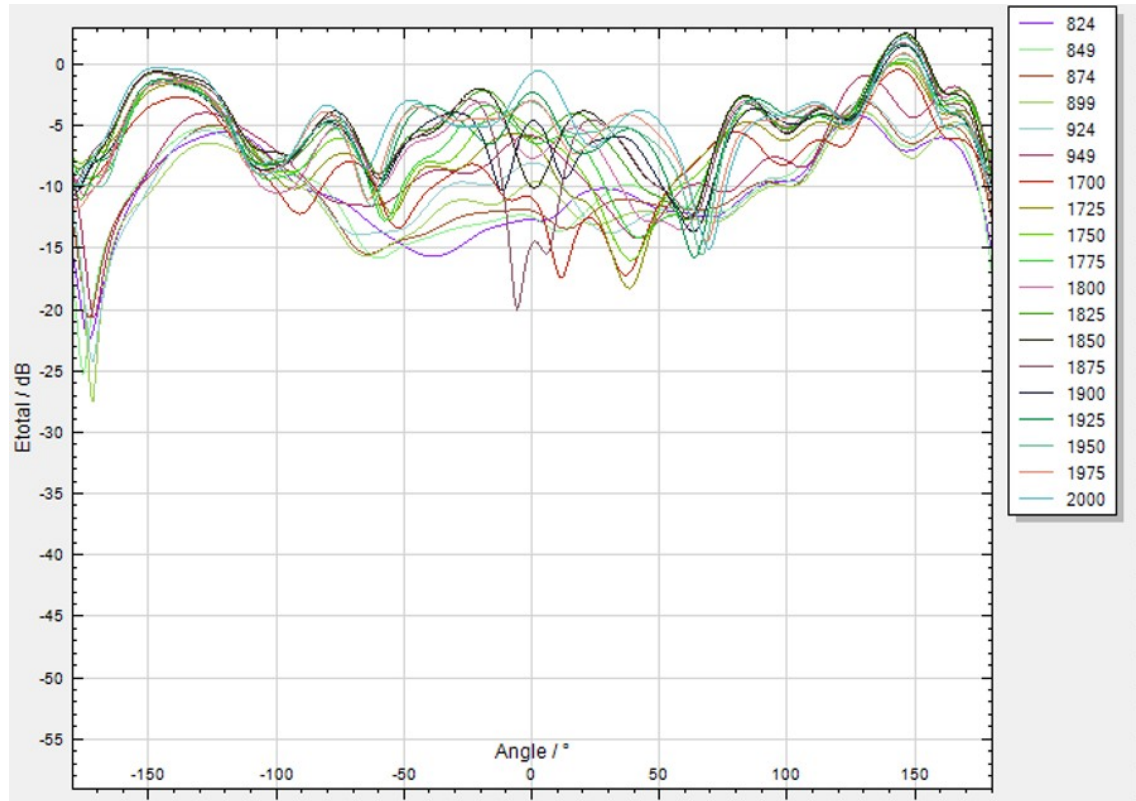


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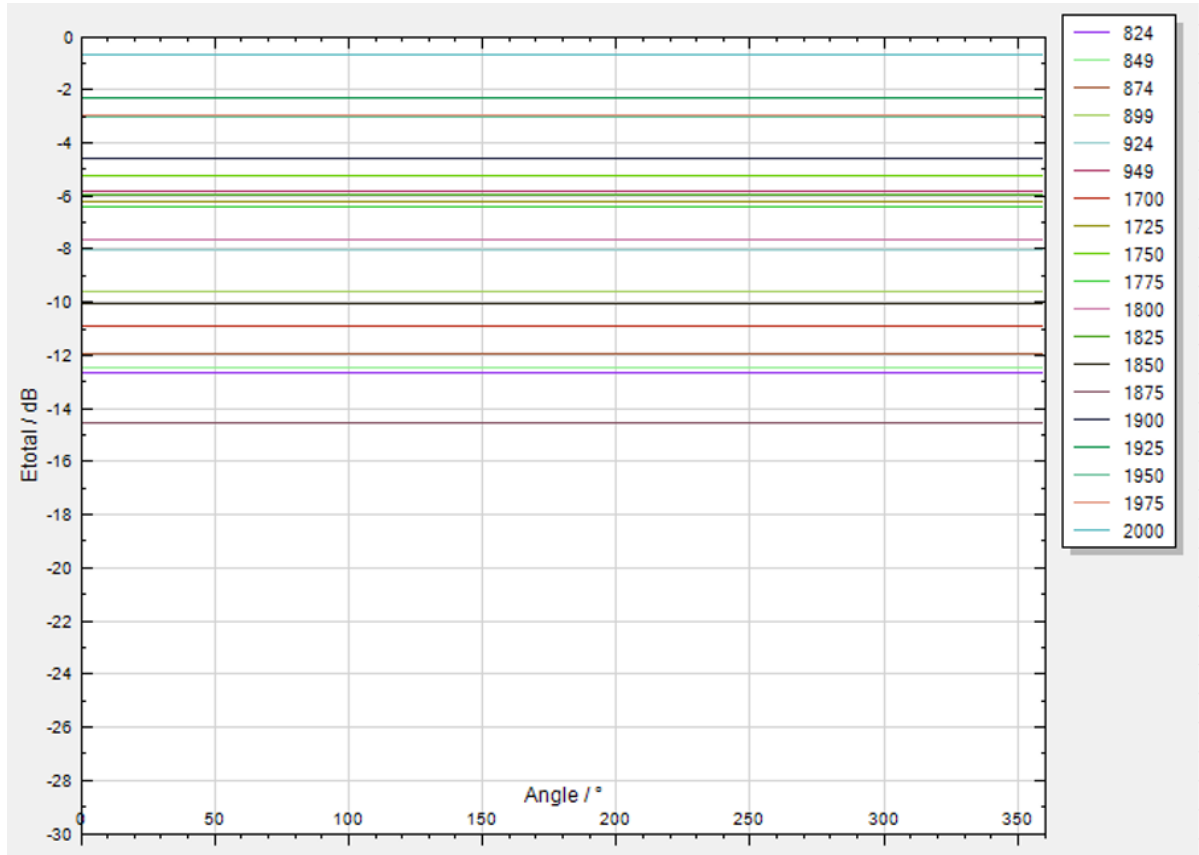


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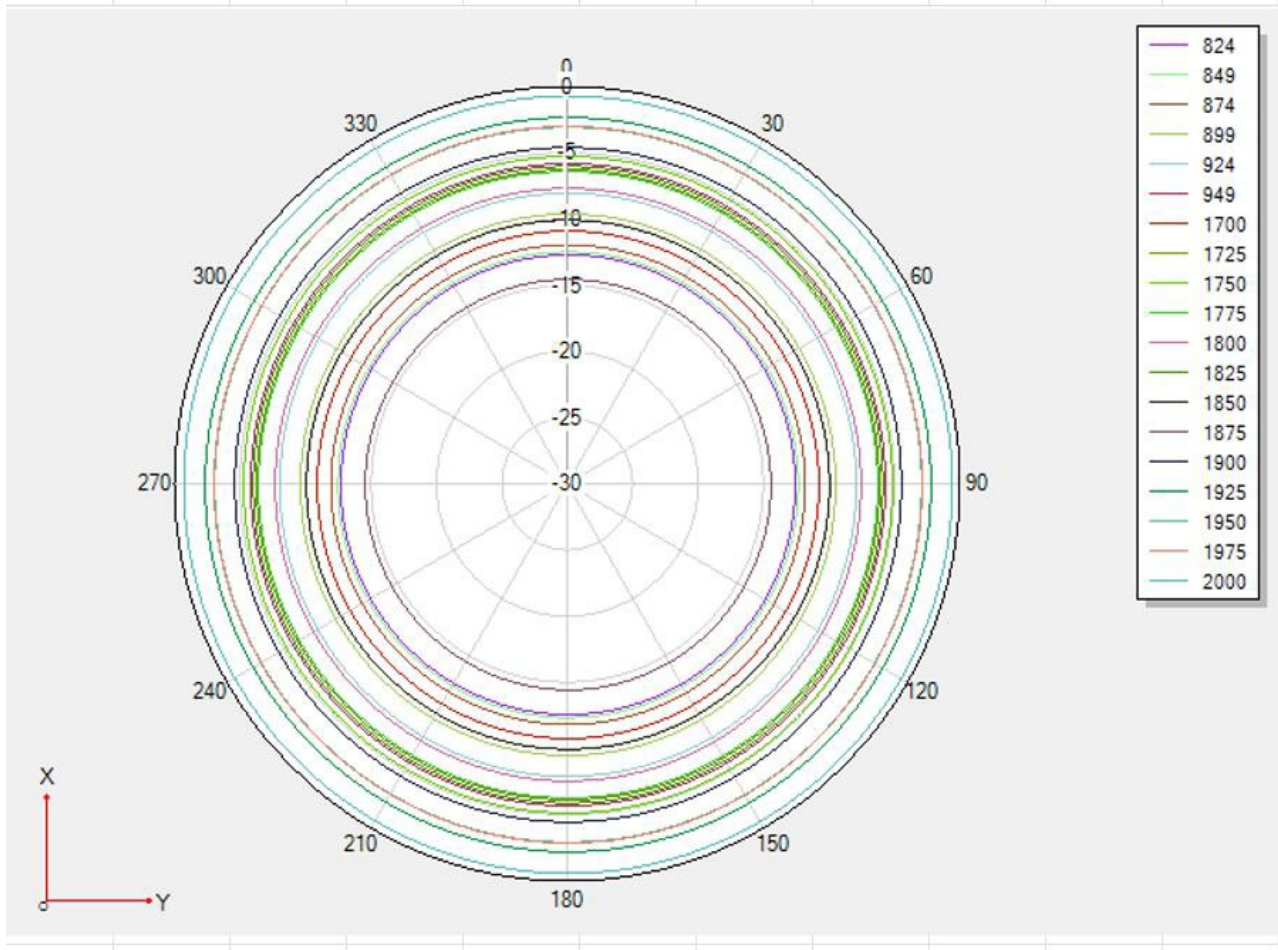


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