सी एस आई आर – राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
(Council of Scientific and Industrial Research)
(राष्ट्रीय मापिकी संस्थान (एनएमआई), सदस्य बीआईपीएस एवं हस्ताक्षरकर्ता सीआईपीएम - एमआरए)
(National Metrology Institute (NMI), Member BIPM and Signatory CIPM - MRA)
डॉ. के. एस. कृष्णन् मार्ग, नई दिल्ली-110012, भारत
Dr. K. S. Krishnan Marg, New Delhi-110012 INDIA
दूरभाष/Phone : +91-11-4560, 8441, 8610, 9447, फैक्स/Fax : 91-11-4560 8448
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परीक्षण रिपोर्ट
TEST REPORT

Anti Radiation Fabric
(eShieldz ARF)

25050124/D#6.03a/T-013

दिनांक/ Date	रिपोर्ट संख्या / Report No.	पृष्ठ / Page	पृष्ठों की संख्या / No. of Pages
30.06.2025	25050124/D#6.03a/T-013	1	2

1.	**Tested for:**	Asan Enterprises FNo 303, Fortune Greenview Apartment, Mythri Nagar, Military Dairy Farm Rd, Old Bowenpally, Hyderabad-500011 Telangana, India Customer's Ref. No. : CTBR Form Dated: 08.05.2025
2.	**Description & identification of instrument/item:**	Anti Radiation Fabric (eShieldz ARF)
3.	**Environmental conditions:**	Temperature: (23 ± 1) °C Relative Humidity: (50±10) %
4.	**Standard(s) used with associated Measurement uncertainty:**	Transverse Electromagnetic Cell (TEM) ±0.60 for E-Field: 10V/m; $k \simeq 2$
5.	**Metrological Traceability of standard(s) used:**	The standards used for test is (are) traceable to National Standard, which realize the units of quantities according to the International System of Units (SI).
6.	**Principle/Methodology of Test and Test Procedure Number:**	Testing of Shielding Effectiveness as per Test Procedure No Sub-Div.#6.03a/Doc.3/TP#01

परीक्षणकर्ता:
Tested by:
JYOTI CHAUHAN

जाँचकर्ता:
Checked by:
Dr. SATYA KESH DUBEY

प्रभारी वैज्ञानिक:
Scientist-in-charge:
Dr. SATYA KESH DUBEY

जारीकर्ता:
Issued by:
National Physical Laboratory Director's Nominee New Delhi
डॉ. श्रीनिवास राव रागम
Dr. Srinivasa Rao Ragam

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7. Results:

The Anti Radiation Fabric (eShieldz ARF)has been tested for Shielding Effectiveness at different frequency points . The test results are given below:

S. No.	Frequency	Shielding Effectiveness Magnitude (dB)	Uncertainty (dB)
1	900 MHz	19.5	± 1.0
2	1200 MHz	18.7	± 1.0
3	2400 MHz	21.9	± 1.0
4	3300 MHz	30.0	± 1.5

The reported uncertainty is at coverage factor $k\approx2$, which corresponds to a coverage probability of approximately 95% for a normal distribution.

8. Dates of Testing: 09.06.2025 to 30.06.2025

9. Remarks: .....

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