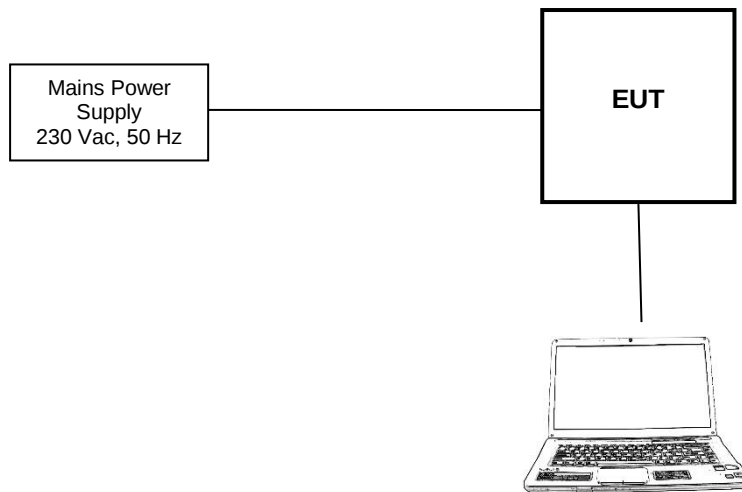


9 EUT Test Setup

9.1 Block Diagram

The following diagram shows basic EUT interconnections with cable type and cable lengths identified:

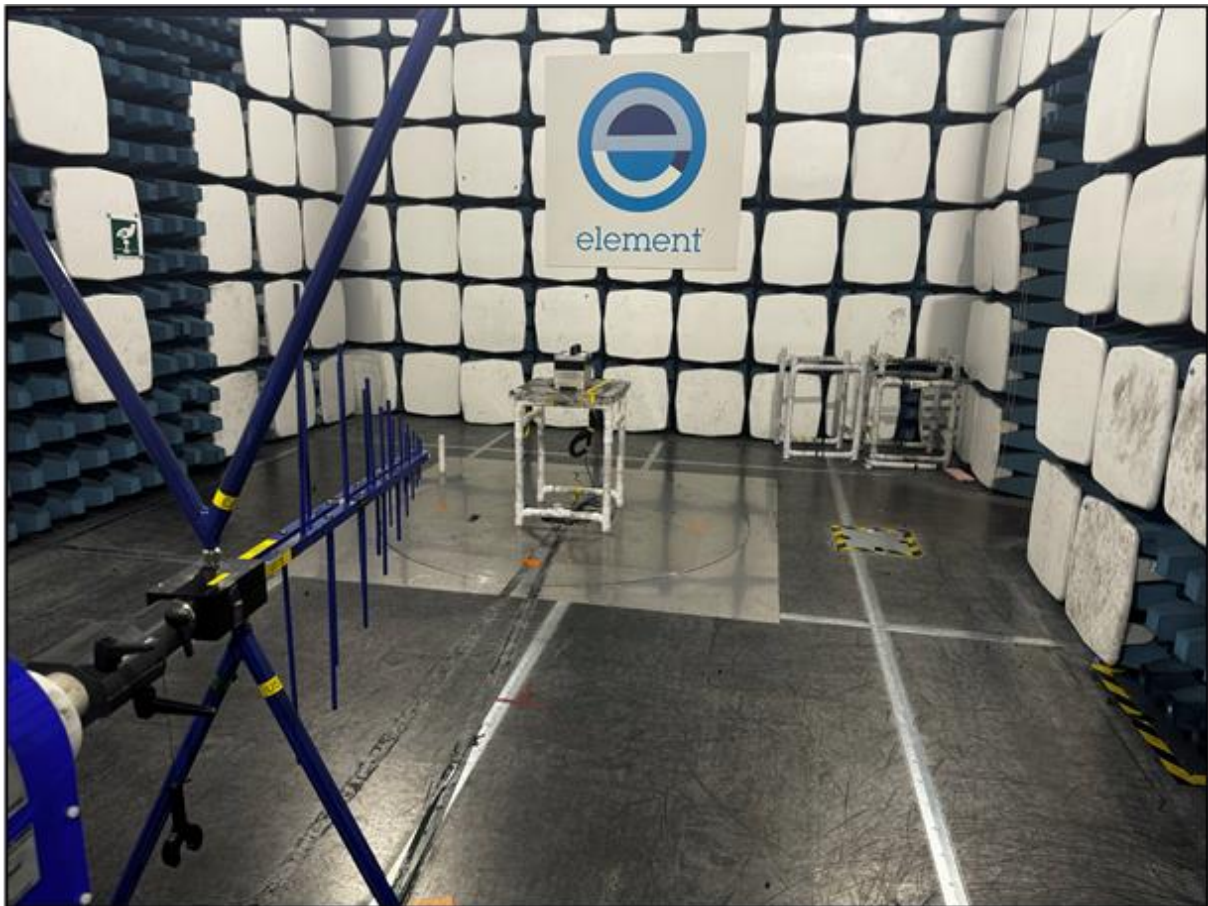


9.2 General Set-up Photograph

The following photographs shows basic EUT set-up:



9 kHz to 30 MHz



30 MHz to 1 GHz

9.3 Measurement Software

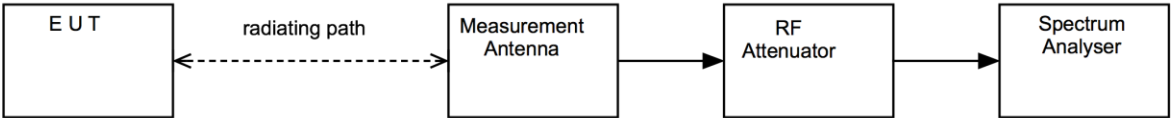
Where applicable, the following software was used to perform measurements contained within this report.

Element Emissions R5 (See Note)

Note:

The version of the Element software used is recorded in the results sheets contained within this report.

Figure i Test Setup



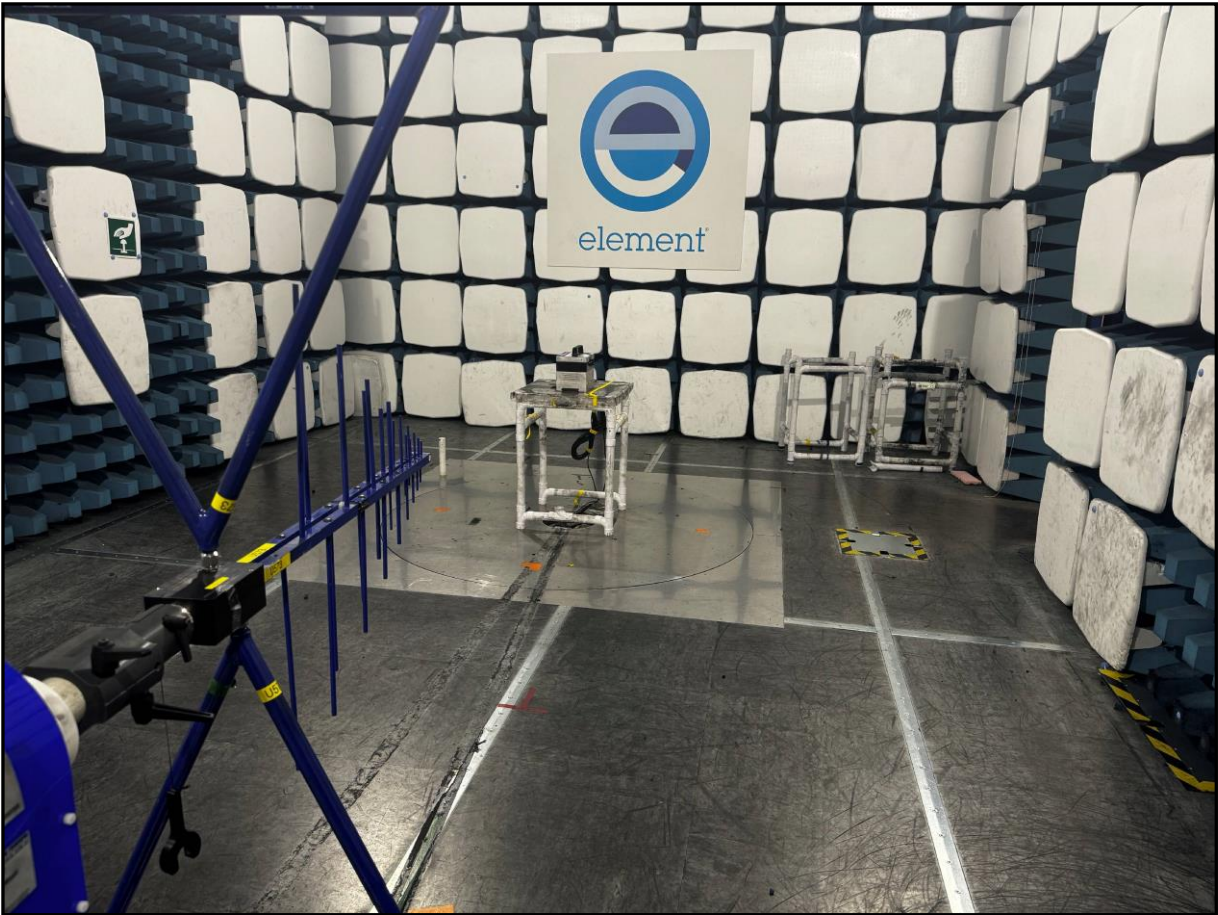
11.5 Test Set-up Photograph



11.6 Test Equipment

Equipment Description	Manufacturer	Equipment Type	Element No	Due For Calibration
EMI Receiver	R&S	ESR7	U456	2025-03-08
Active Loop Antenna	EMCO	6502	R0079	2025-11-10
Radio Chamber - PP	Rainford EMC	ATS	REF940	2026-01-29
Radiated Test Software	Element	Emissions R5	REF9000	Cal Not Required

Test Set-up Photograph



12.5 Test Equipment

<i>Equipment Description</i>	<i>Manufacturer</i>	<i>Equipment Type</i>	<i>Element No</i>	<i>Due For Calibration</i>
EMI Receiver	R&S	ESR7	U456	2025-03-08
Bilog	Chase	CBL611/B	U573	2025-11-04
PreAmp	Watkins Johnson	6201-69	U372	2025-03-15
Radio Chamber - PP	Rainford EMC	ATS	REF940	2026-01-29
Radiated Test Software	Element	Emissions R5	REF9000	Cal Not Required

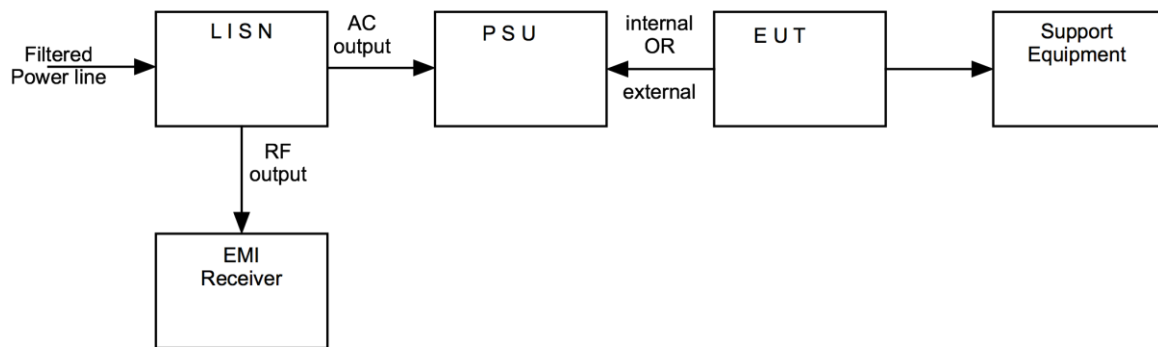
13.4 Test Method

With the EUT setup in a screened room, as per section 9 of this report and connected as per Figure iii, the power line emissions were measured on a spectrum analyzer / EMI receiver.

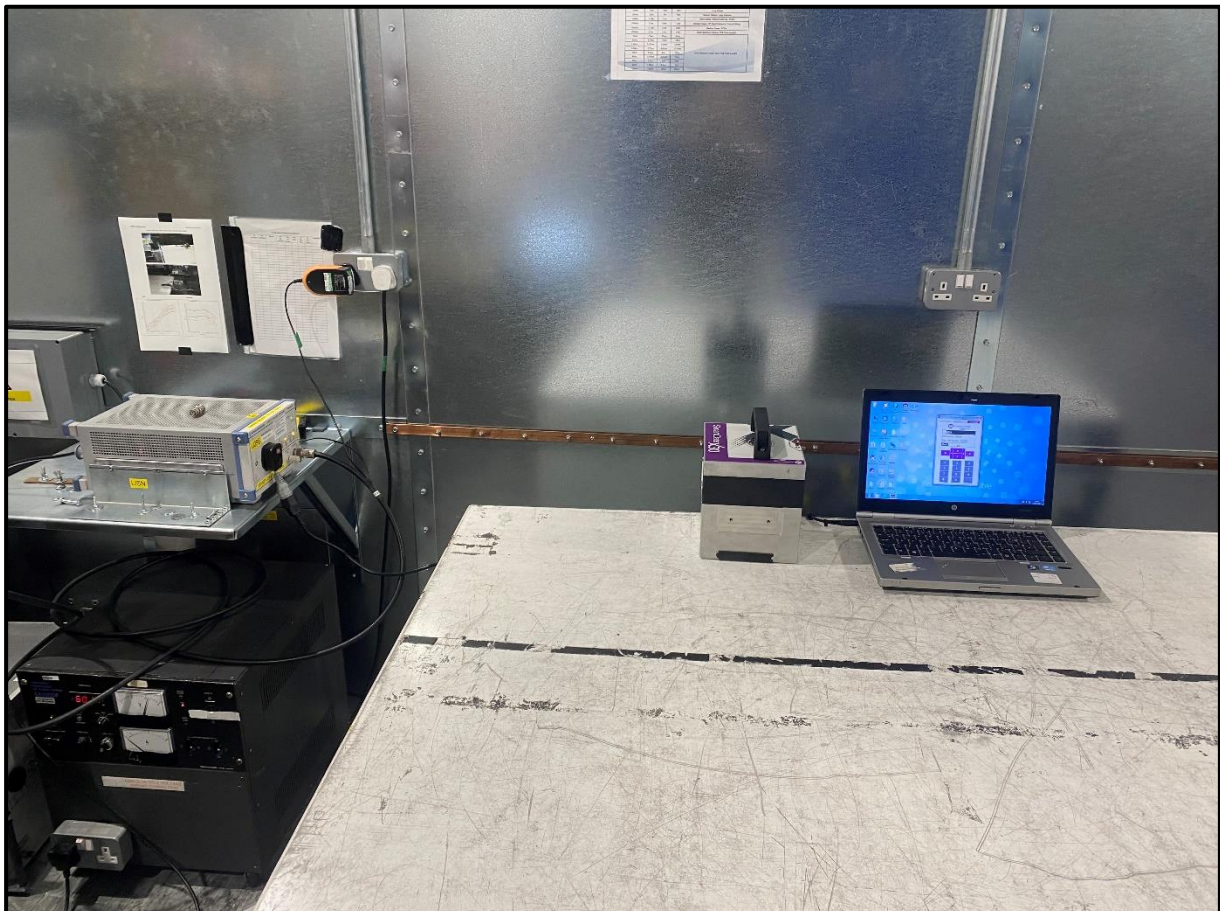
AC power line conducted emissions from the EUT are checked first by preview scans with peak and average detectors covering both live and neutral lines. A spectrum analyzer is used to determine if any periodic emissions are present.

Formal measurements using the correct detector(s) and bandwidth are made on frequencies identified from the preview scans. Final measurements were performed with EUT set at its maximum duty in transmit and receive modes.

Figure iii Test Setup



13.5 Test Set-up Photograph



15.6 Test setup photograph



15.7 Test Results

Frequency: 13.56 MHz; Modulation: ASK; Power Setting: Default							
Measured Valued (dBμV)	Factor (dBm)	Measuring Distance (Metres)	Wanted Distance (Metres)	Distance Adjustment (dB)	Adjusted (dBμV/m)	Result (μV/m)	Limit (μV/m)
54.7	9.6	3	30	-40	24.3	16.406	15848

