

7. CONDUCTED DISTURBANCE VOLTAGE IN THE FREQUENCY RANGE 0,150 - 30 MHZ

7.1 Operating environment

Temperature: 23 °C (15 - 35 °C)
Relative Humidity: 35 % (20 - 75 %)

7.2 Measurement uncertainty

Conducted disturbance voltage, quasi-peak detection: ±2,0 dB

The measurement uncertainty describes the overall uncertainty of the given measured value during operation of the EUT.

Measurement uncertainty is calculated in accordance with EA-4/02-1997.
The measurement uncertainty is given with a confidence of 95%.

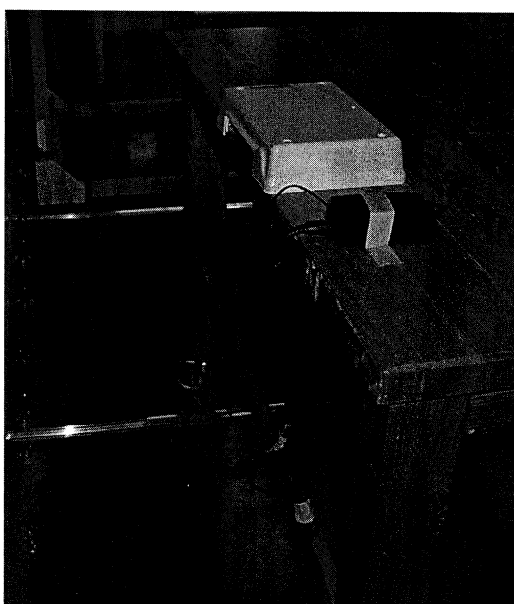
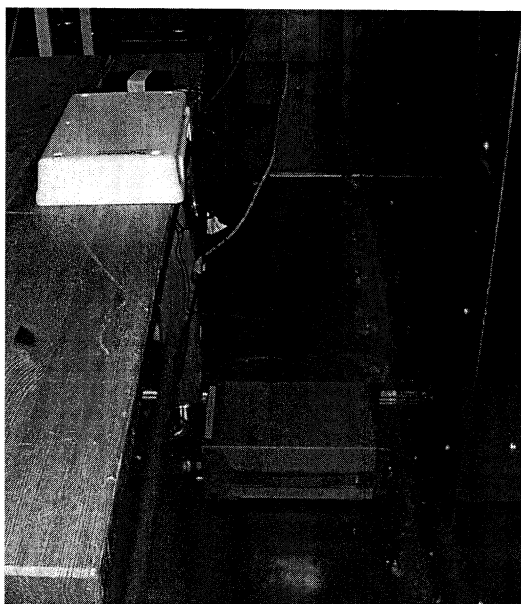
7.3 Test equipment

Test site: FCC

Equipment	Manufacturer	Type	SEMKO No.
Software:	Rohde & Schwarz	ES-K1 V1.60	
Measurement receiver:	Rohde & Schwarz	ESHS 30	4946
Artificial mains network:	Rohde & Schwarz	ESH3-Z5	2727
Transformer:	TUFVASSONS	AFM-1500	375

7.4 Measurement set-up

The mains terminal disturbance voltage was measured with the EUT located 0,8 m above the ground plane and 0,4 m from the vertical ground plane. The EUT was connected to an artificial mains network (AMN). The AMN was placed on a metallic, grounded floor. Amplitude measurements were performed with a quasi-peak detector. The test set-up photo is given below.



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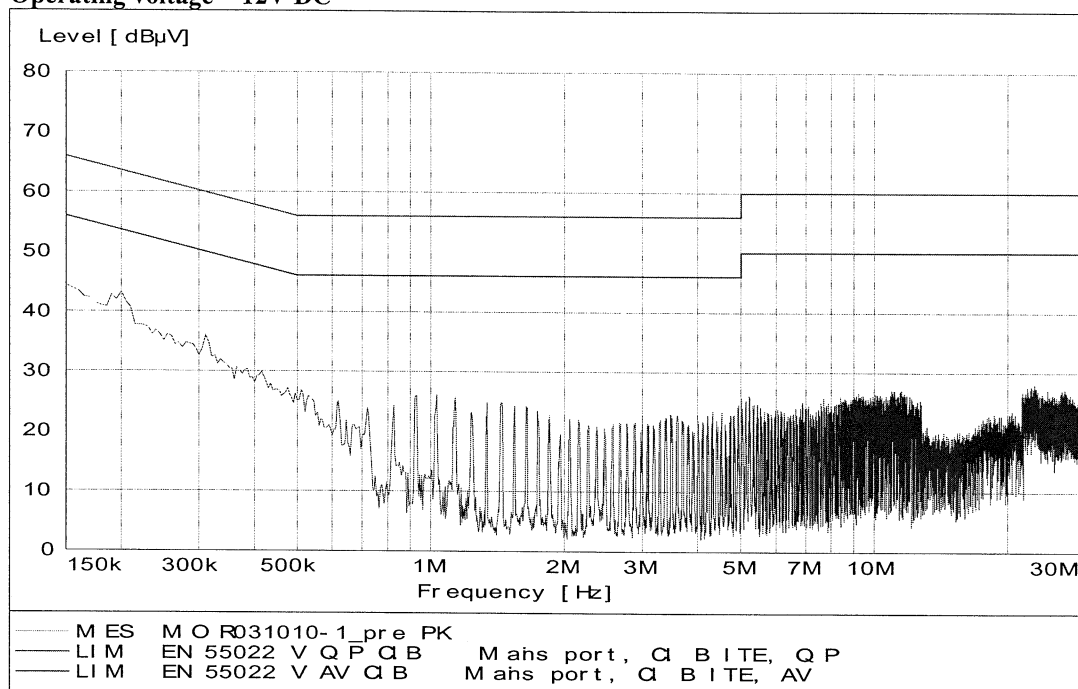
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7.5 Test protocol

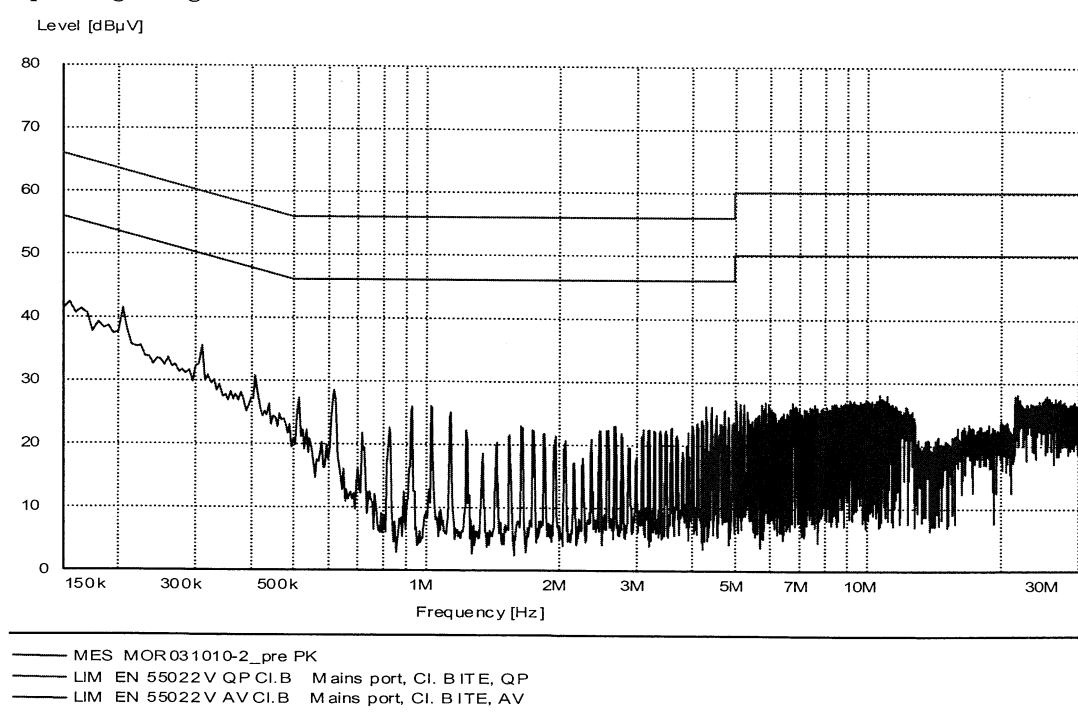
Date of test: October 10, 2003

An overview sweep performed with a peak detector is shown below.

Operating voltage = 12V DC



Operating voltage = 24 V



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8. OUTPUT FIELD STRENGTH

8.1 Measurement set-up

In the Bluetooth anechoic chamber the EUT was placed on a non-metallic table, 1,4 m above the floor. The radiated disturbance electric field intensity was measured at a distance of 3 m. The specified test mode was enabled.

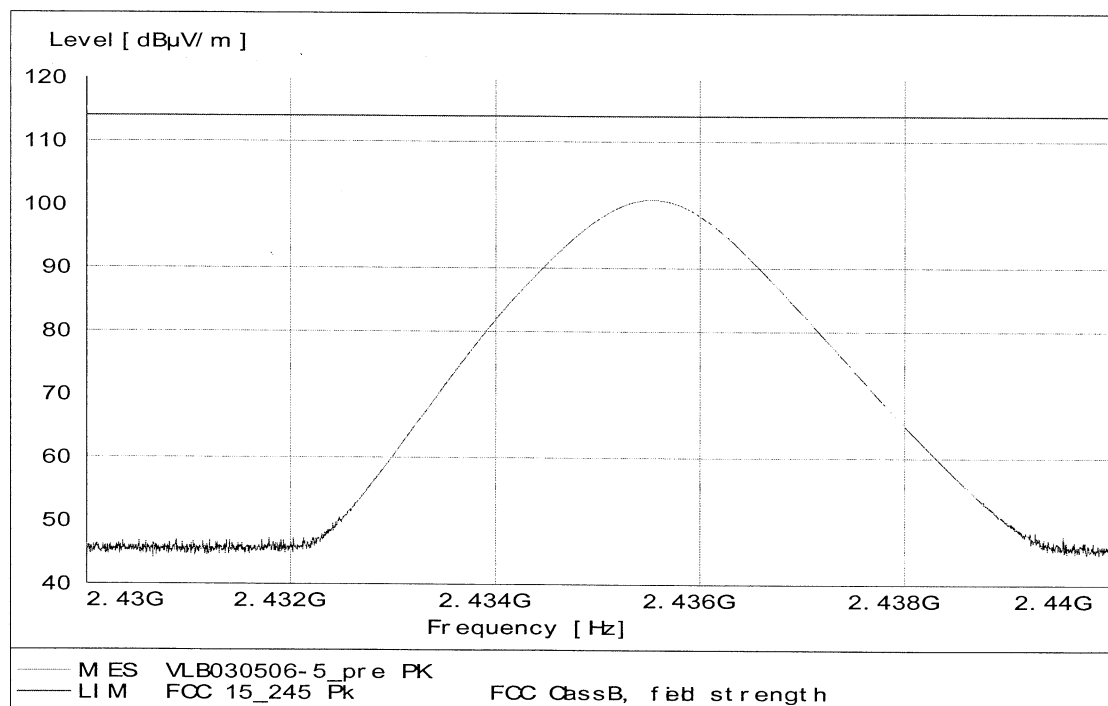
The receiving antenna was located at the height of 1,4 m above the floor. The polarisation was horizontal and vertical. The sweep was performed with the spectrum analyser in max-hold and average detection of the electric field intensity. The measurements were repeated with the EUT rotated stepwise. For the test set-up photo see Section 6.1.2.

8.2 Test protocol

Date of test: May 6, 2003

Channel No.	Output Field Strength dB(μ V/m)	Limit value dB(μ V/m)
1	101	114
50	102	
99	104	

Output field strength, channel 1



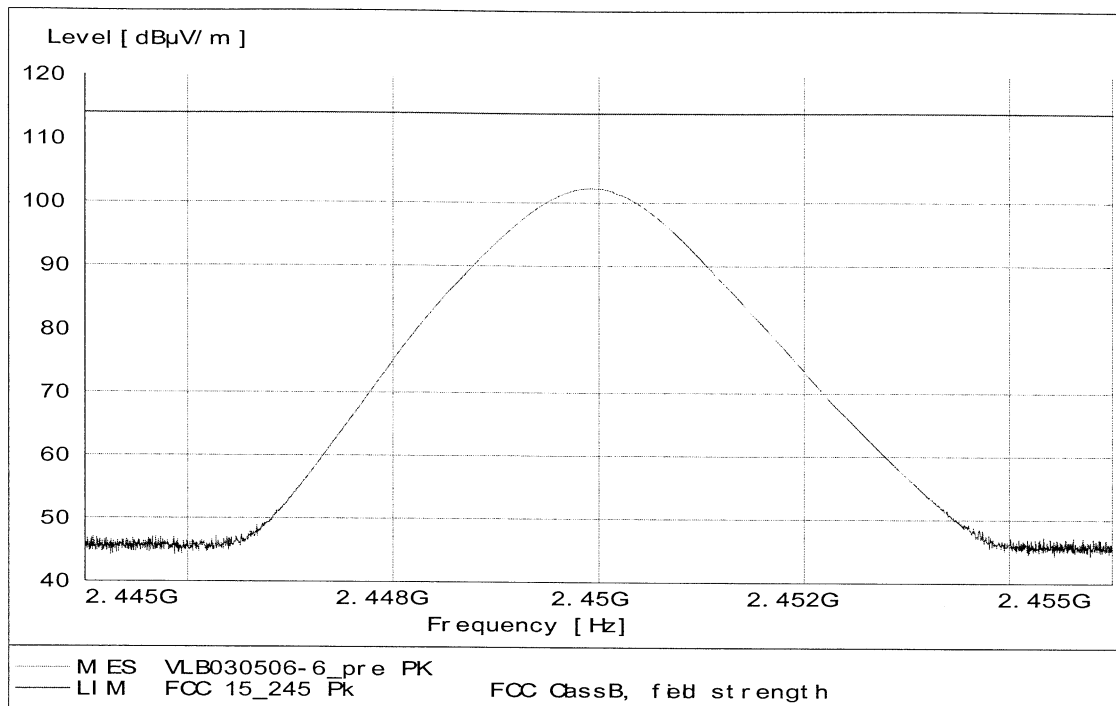
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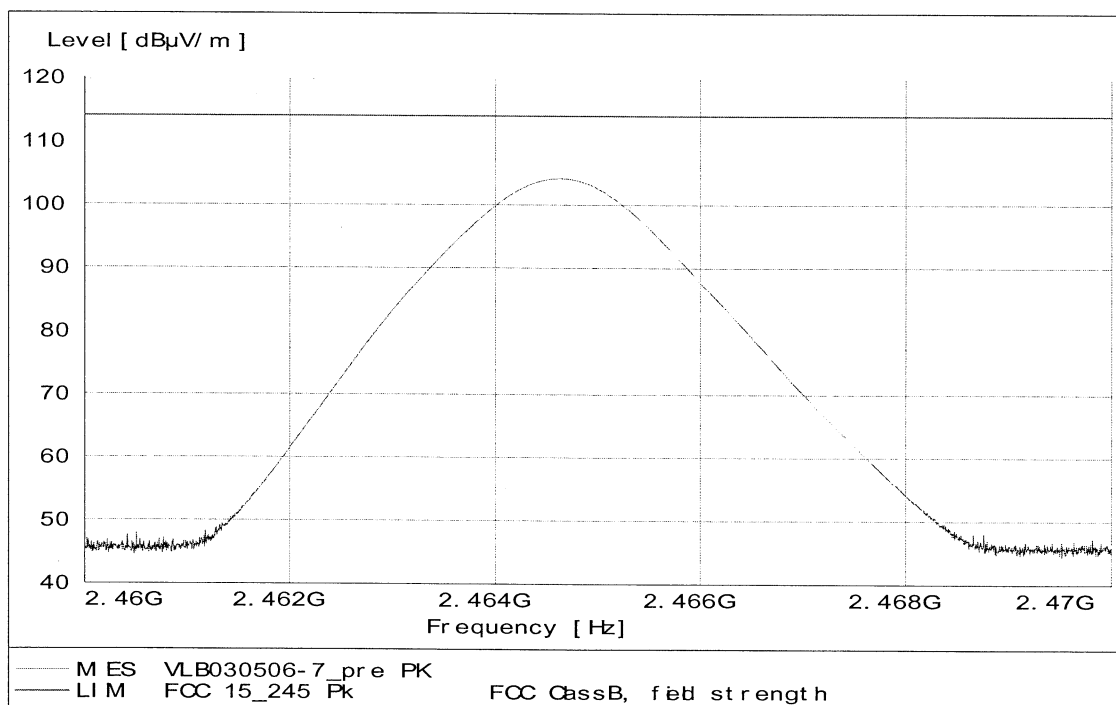
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Output field strength, channel 50



Output field strength, channel 99



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9. BAND EDGE COMPLIANCE

9.1 Measurement set-up

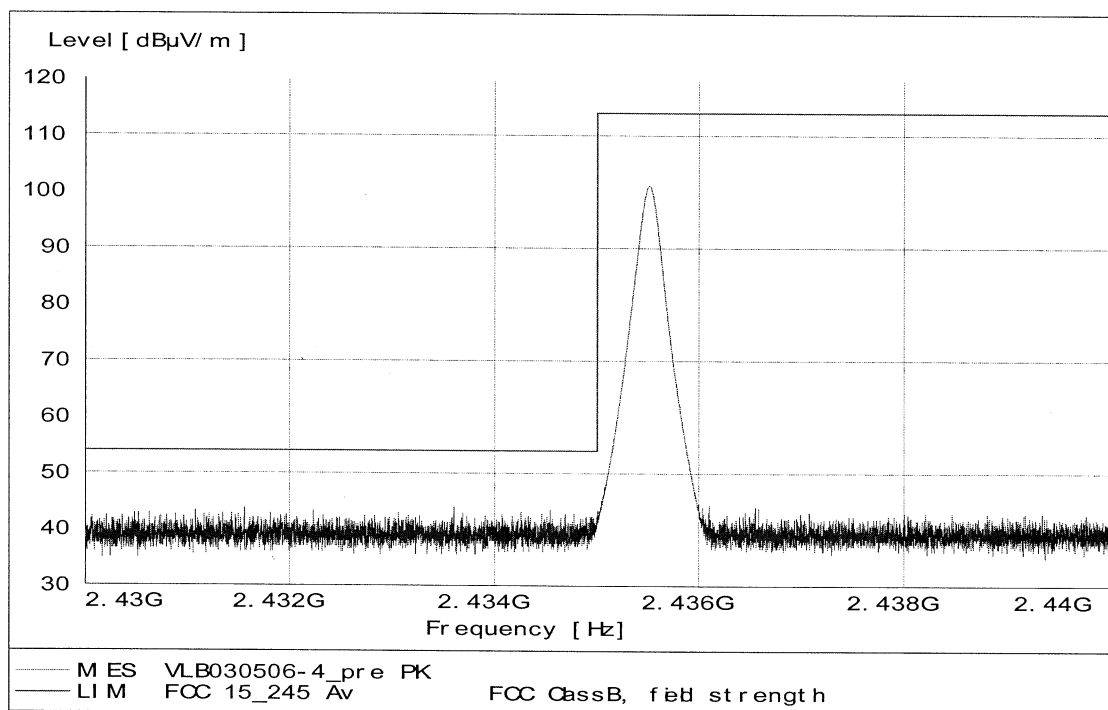
Measurement set-up is described in Section 7.1.

9.2 Test protocol

Date of test: May 6, 2003

Frequency MHz	Field Strength dB(μ V/m)	Limit value dB(μ V/m)
2435	42	54
2465	49	54

Band edge compliance at 2435 MHz



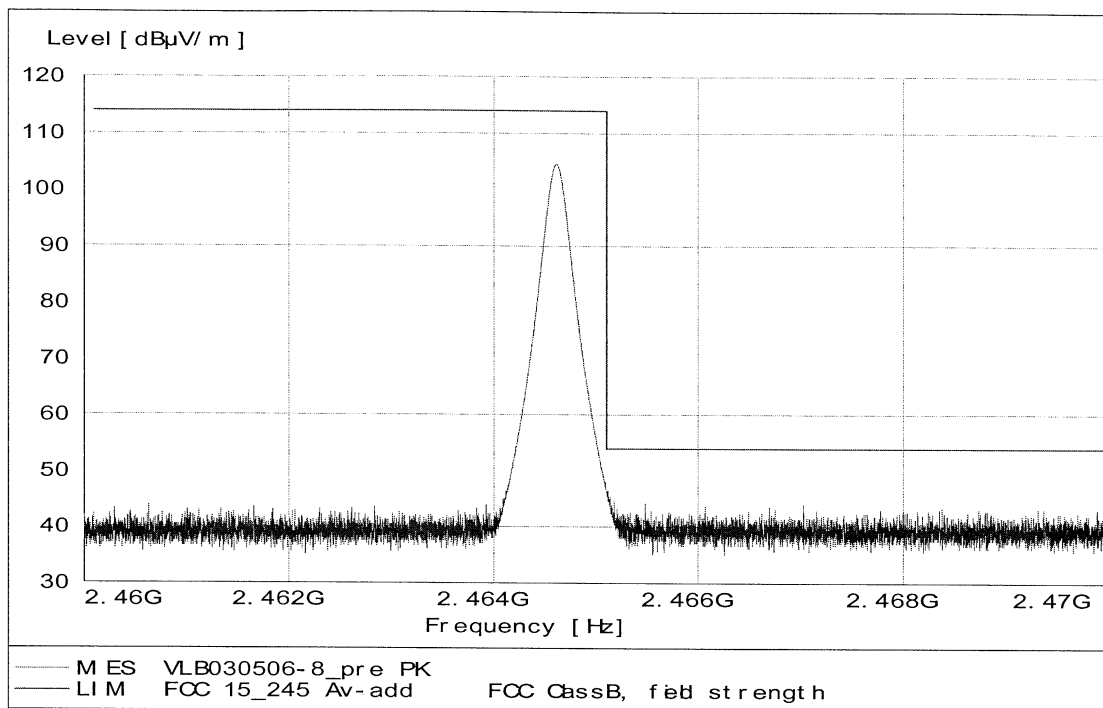
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Band edge compliance at 2465 MHz



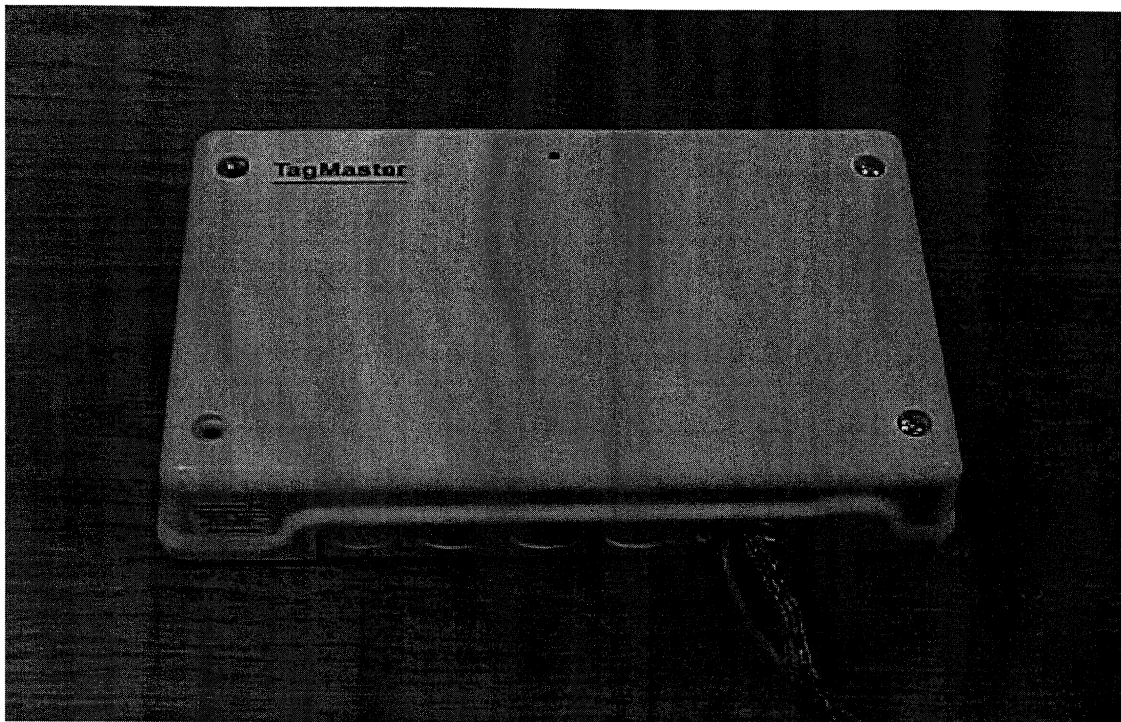
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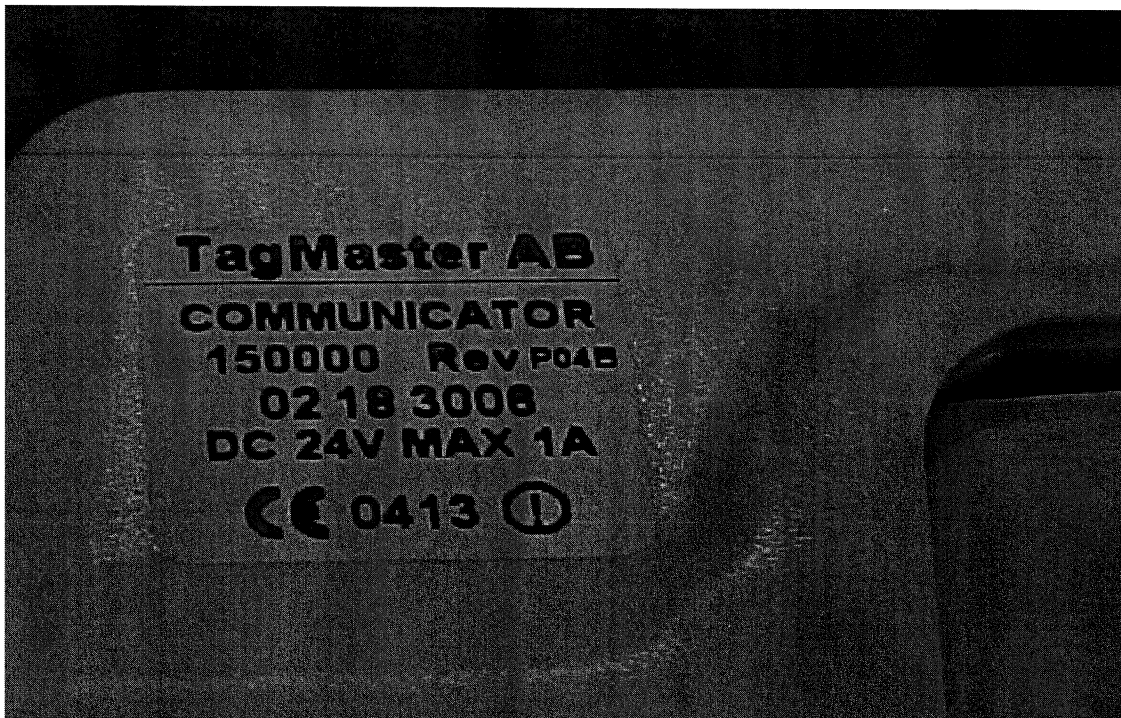
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APPENDIX – PHOTOS OF THE EUT



Identification photo



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