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<u>Approval Date</u>	: June 22, 2021	<u>Labeled Age Grade/Size</u>	: NA
<u>Date of Receipt</u>	: June 18, 2021	<u>Tested Age Grade</u>	: NA
<u>Retest</u>	: No	<u>Test Request Form #</u>	: TRF21056528
<u># of Samples Submitted</u>	: 1 Set of 8		
<u>Manufacturer's Name</u>	: Lambs		
<u>Item Description</u>	: Fabric comprised of a combination of Modal, Polyester, Spandex, Silver		
<u>Item Number</u>	: 0001		
<u>Country of Origin</u>	: TN		
<u>Country of Import</u>	: NA		
<u>PO Number</u>	: NA		
<u>Delivery Conditions</u>	: Satisfactory, Samples tested as received		
<u>Testing Date Range</u>	: 07-01-2021- to 07-06-2021 and 08-03-2021 to 08-04-2021		

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
AATCC 183 (CCN003_2)**	See Attachment
RF Testing for 6 Frequencies/ IEEE-299:1997. Frequencies: 450MHz, 900MHz, 4GHz, 10GHz, 24GHz and 40GHz (CUS087)**	See Attachment

** Analysis completed by Eurofins Subcontract Laboratory

This report cancels and replaces report U106086. The laboratory accepts no responsibility for the use of any previous report to this report.

Revision Statement: Added "Table 2. Fabric Sample Shielding Effectiveness Percentage"

Signed for and on behalf of
 Eurofins Product Testing US Inc.



Chandra Miller / Project Manager

This report relates to the above mentioned test item(s) and the extent to tests performed. This test report is not permitted to be reproduced except in full, without written permission of the test facility. This test report does not entitle any safety marks on this or similar products. The sample and the information regarding sample have been provided by the client. All information related to the sample are under liability of the client and have not been checked by Eurofins Product Testing US Inc.

ATTACHMENT

TEST REPORT

APPLICANT : Eurofins Product Testing US (Bothell)
ADDRESS : 11720 North Creek Parkway N Suite 400 Bothell, WA 98011
SAMPLE DESCRIPTION : Fabric comprised of a combination of modal,polyester,spandex,sliver
STYLE NO. : 0001
MANUFACTURER : VTLSA
COUNTRY OF ORIGIN : TN
SAMPLE RECEIVED DATE : 01-Jul-2021
TURN AROUND TIME : 01-Jul-2021 to 06-Jul-2021

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
UV protective properties	AATCC 183-2020	See test result

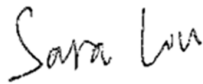
Eurofins (Hangzhou) contact information

Customer service: MonicaJi@eurofins.com / +86 571 87203730

Sales specialist: JongMiKim@eurofinsUS.com/ +1 425 686 3575

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

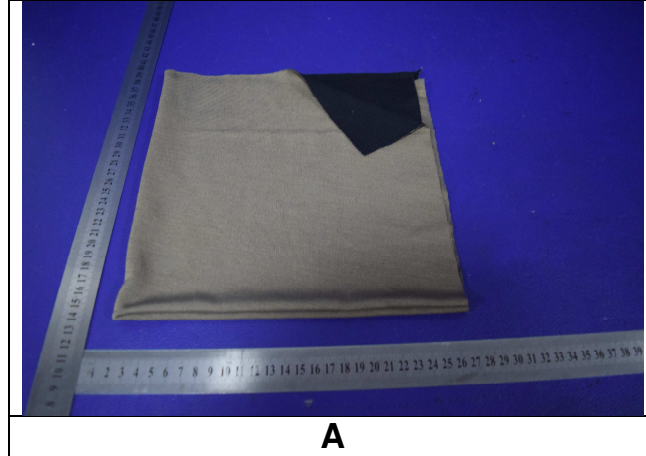
Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou Branch



Sara Liu
Lab Manager

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.hz@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

SAMPLE PHOTO(S)



EFHZ21063574-CG-01

TO BE CONTINUED

TEST RESULT

Number	Test Item		Result		Testing Method
			1# Dry	2# Wet	
A	UV protective properties	T(UVA)AV (%)	0.86	0.40	AATCC 183-2020
		T(UVB)AV (%)	0.56	0.28	
		Block (UVA)AV (%)	99.14	99.60	
		Block (UVB)AV (%)	99.44	99.72	
		UPFAV (%)	163.16	328.76	
		UPF Value	>50	>50	

Remark:

Test condition: Temp: 21.4°C, C R.H.: 65.1%, Wet pick-up: 140%

END OF THE REPORT

Electromagnetic Compatibility Criteria Test Report

for the

**Eurofins Product Testing US
Fabric sample**

To be evaluated under the Requirements of
IEEE-299

Report: EMC113611- IEEE Rev. 1

Testing Performed By



Brandon Tracy
Electromagnetic Compatibility Lab



Michael Griffiths
Manager, Electromagnetic Compatibility Lab

Test Report Status Sheet

Revision	Test Report Date	Reason for Revision
∅	August 5, 2021	Initial Issue.
1	September 23, 2021	Added "Table 2. Fabric Sample Shielding Effectiveness Percentage"

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Overview

A. Overview

Model(s) Tested:	Fabric sample
Model(s) Covered:	Fabric sample
Analysis:	The results obtained relate only to the item(s) tested.
Prepared by:	Michelle Tawmging

B. References

IEEE-299: 2006	Measuring the Effectiveness of Electromagnetic Shielded Enclosures
ISO/IEC 17025: 2005	General Requirements for the Competence of Testing and Calibration Laboratories

Equipment Configuration

A. Overview

Eurofins Electrical and Electronic Testing NA, Inc. was contracted by Eurofins Product Testing US to perform testing on the Fabric sample.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Eurofins Product Testing US, Fabric sample.

In accordance with §2.955(a) (3), the following data is presented in support of the verification of the Eurofins Product Testing US, Fabric sample. Eurofins Product Testing US should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the Fabric sample has been **permanently** discontinued, as per §2.955(b).

The results obtained relate only to the item(s) tested.

B. Test Site

All testing was performed at Eurofins Electrical and Electronic Testing NA, Inc., 914 West Patapsco Ave., Baltimore MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a semi anechoic chamber. In accordance with §2.948(a)(3), a complete site description is contained at Eurofins Electrical and Electronic Testing NA, Inc.. In accordance with §2.948(d), Eurofins Electrical and Electronic Testing NA, Inc. has been accredited by the National Voluntary Laboratory Accreditation Program (Lab Code: 100273-0).

C. Description of Test Sample

The Fabric sample is the Equipment Under Test (EUT).

D. Modifications

i. Modifications to the EUT

No modifications were made to the EUT.

ii. Modifications to the Test Standard

No modifications were made to the test standard.

E. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Eurofins Product Testing US upon completion of testing.

IEEE-299

A. Shielding Effectiveness Measurement Data

Test Results: Testing was completed by Brandon Tracy on August 4, 2021

Environmental Conditions:

<i>Test date:</i>	8/3/2021 & 8/4/2021	<i>Customer:</i>	Eurofins Product Testing US	<i>Temperature:</i>	
<i>Engineer:</i>	Brandon Tracy	<i>METrak #:</i>	113611		23.7 C
<i>Specification/Yr</i>	IEEE 299: 1997	<i>EUT Name:</i>	Fabric Sample	<i>Rel. Humidity:</i>	
		<i>Mode/Config:</i>	n/a		56%
		<i>Pass Date:</i>	n/a	<i>Setup Photo File Name:</i>	
<i>Calibration/ Detection System/EUT Setup verified by/Date:</i>	BT 8/3/2021		n/a		n/a

Noise Floor Measurement, Direct Measurement, Dynamic Range Measurement								
Frequency (MHz)	Noise Floor Measurement (dBm)		Direct Measurement (dBm)		Dynamic Range (dB)		RBW	Sig Gen Drive Level (dBm)
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical		
450.00	-104.05	-105.76	0.91	1.66	104.96	107.42	1 kHz	22
900.00	-103.17	-105.4	-4.94	-4.59	98.23	100.81	1 kHz	22
4000.00	-114.1	-113.62	-26.8	-26.38	87.3	87.24	1 kHz	15
10000.00	-110.83	-111.25	-27.9	-28.22	82.93	83.03	1 kHz	15
24000.00	-95.56	-95.07	-46.07	-46.78	49.49	48.29	1 kHz	15
40000.00	-88.64	-87.62	-55.54	-54.7	33.1	32.92	1 kHz	15

Table 1. Noise Floor Measurement, Direct Measurement, Dynamic Range Measurement

Frequency (MHz)	Dynamic Range (dB)		Fabric Shielding Effectiveness (dB)		Shielding Effectiveness of Fabric (%)	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
450.00	104.96	107.42	47.48	20.53	45.24	19.11
900.00	98.23	100.81	32.62	13.14	33.21	13.03
4000.00	87.30	87.24	24.60	7.83	28.18	8.98
10000.00	82.93	83.03	19.09	8.35	23.02	10.06
24000.00	49.49	48.29	13.72	12.10	27.72	25.06
40000.00	33.10	32.92	13.17	14.33	39.79	43.53

Table 2. Fabric Sample Shielding Effectiveness Percentage

Frequency (MHz)	Fabric Sample Measurement (dBm)		Fabric Sample Shielding Effectiveness (dB)		Minimum SE (dB)
	Horizontal	Vertical	Horizontal	Vertical	
450.00	-46.57	-18.87	47.48	20.53	20.53
900.00	-37.56	-17.73	32.62	13.14	13.14
4000.00	-51.4	-34.21	24.6	7.83	7.83
10000.00	-46.99	-36.57	19.09	8.35	8.35
24000.00	-59.79	-58.88	13.72	12.1	12.1
40000.00	-68.71	-69.03	13.17	14.33	13.17
Frequency (GHz)	Horizontal (dB)	Vertical (dB)	Min (dB)		
0.45	47.48	20.53	20.53		
0.90	32.62	13.14	13.14		
4.00	24.6	7.83	7.83		
10.00	19.09	8.35	8.35		
24.00	13.72	12.1	12.1		
40.00	13.17	14.33	13.17		

Table 3. Fabric Sample Shielding Effectiveness

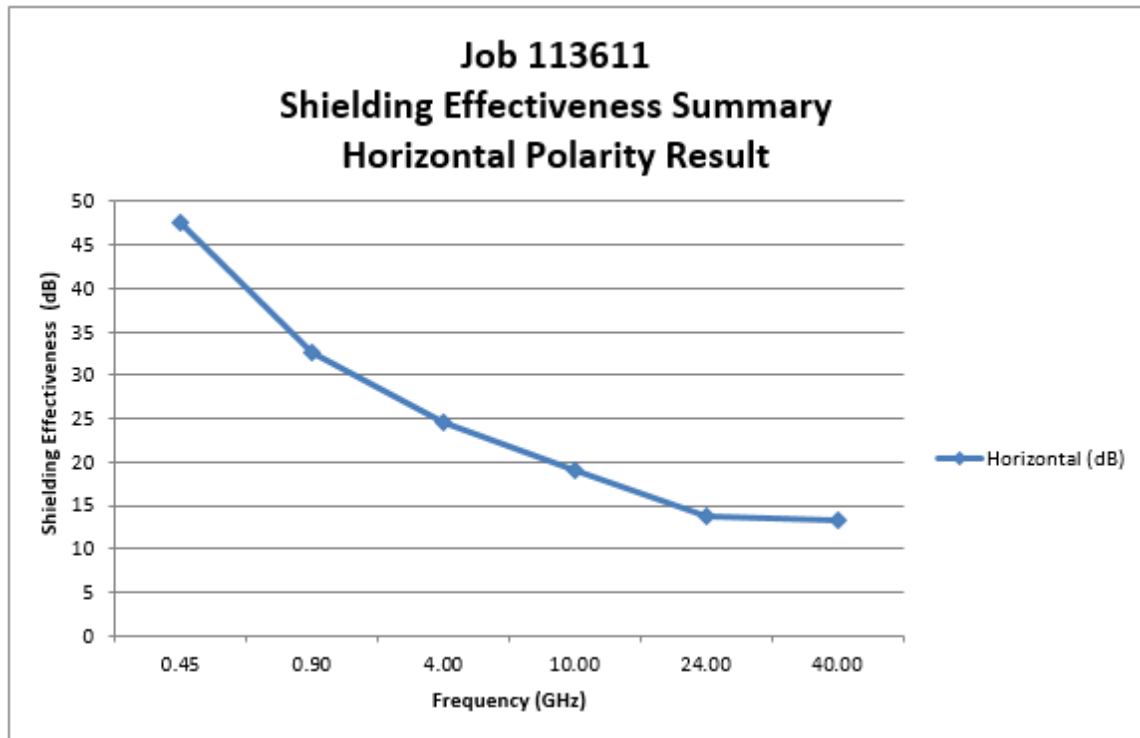


Figure 1. Shielding Effectiveness Summary Horizontal Polarity Result

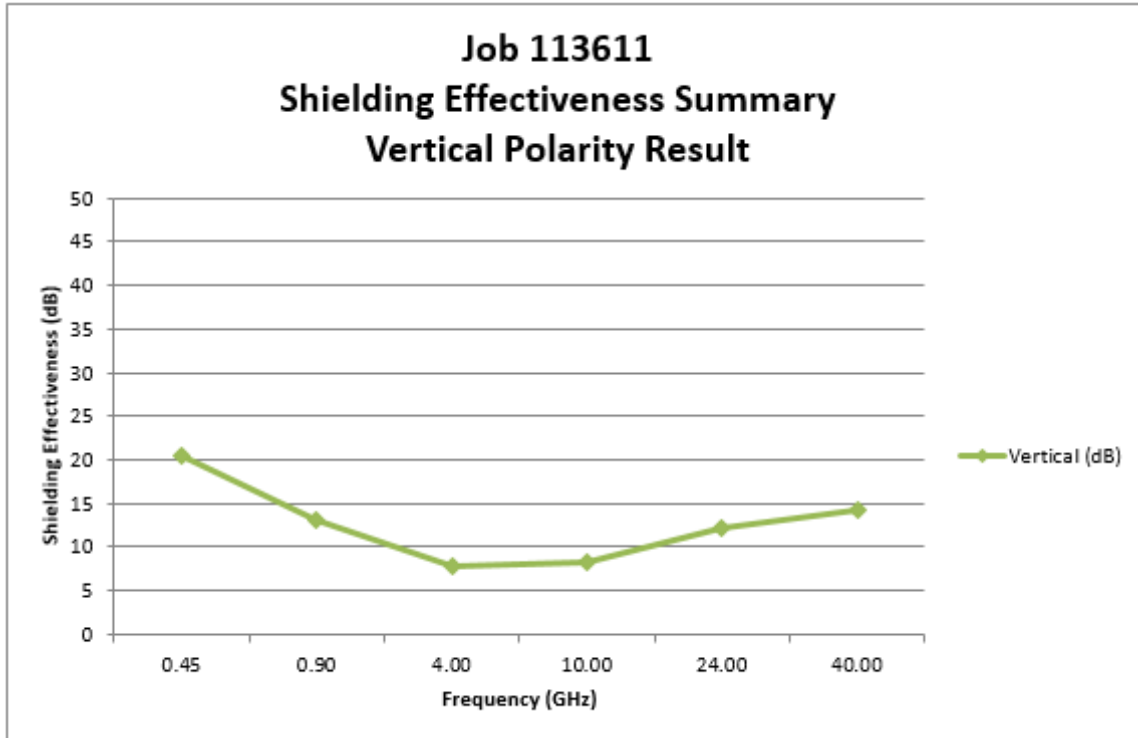


Figure 2. Shielding Effectiveness Summary Vertical Polarity Result

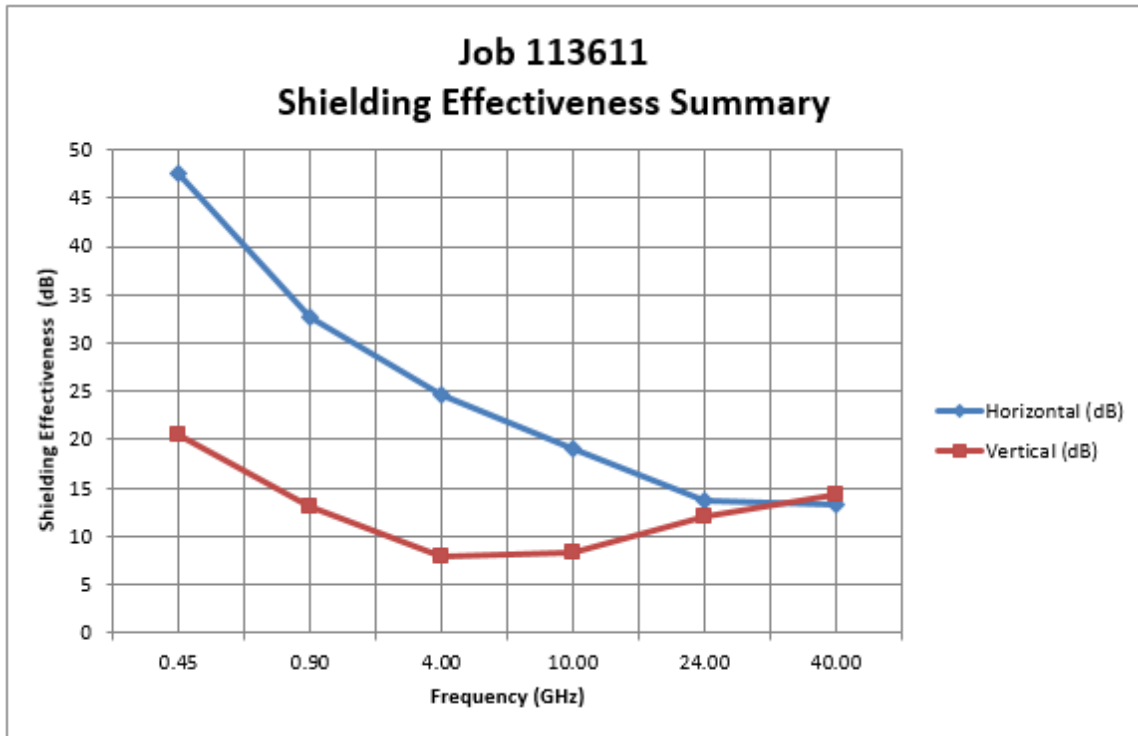


Figure 3. Shielding Effectiveness Summary

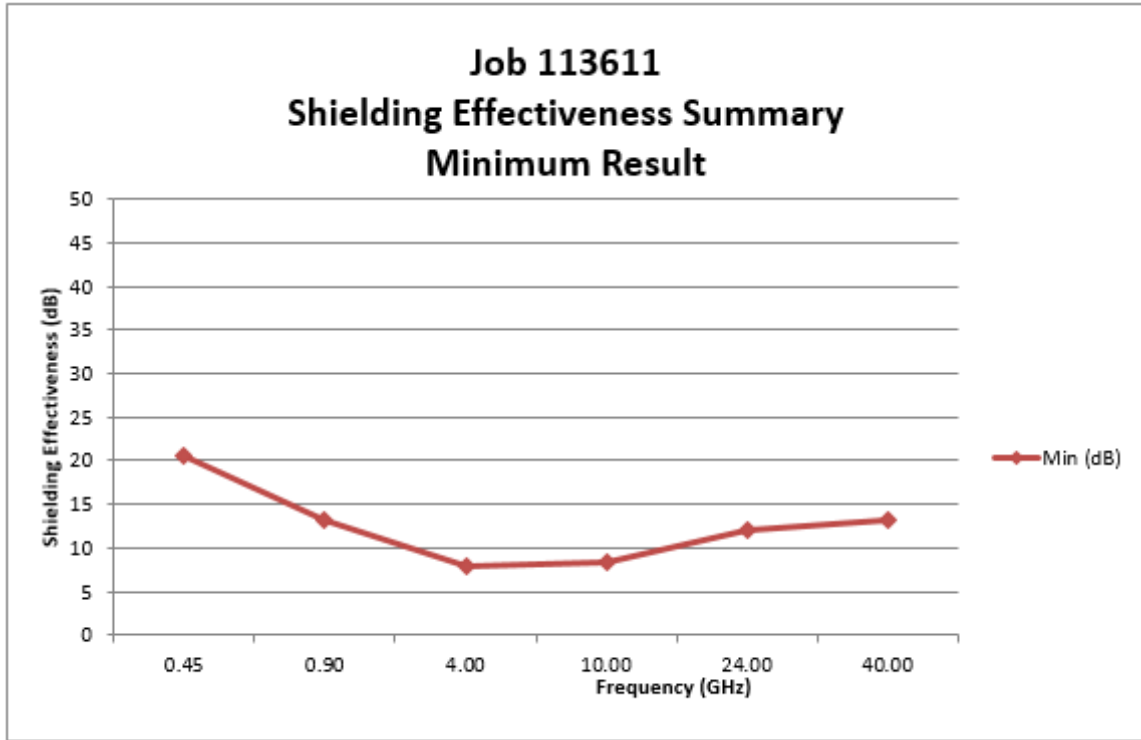
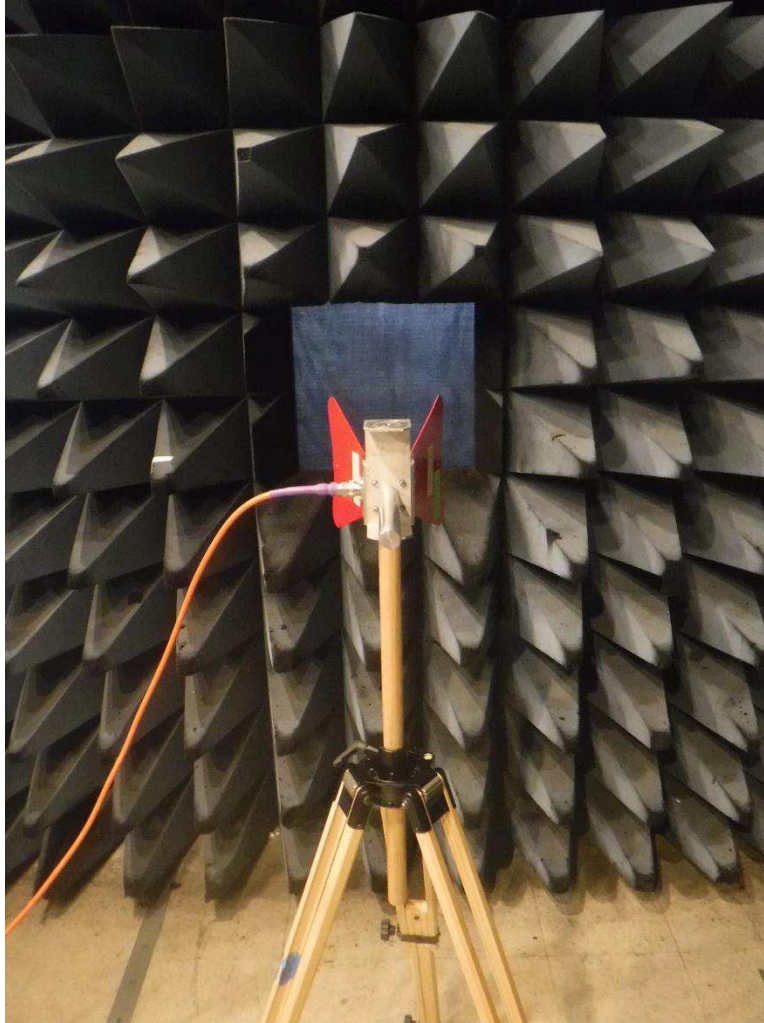


Figure 4. Shielding Effectiveness Summary Minimum Result

B. Shielding Effectiveness Measurement Photographs



Photograph 1. Test Sample (Horn Antenna Horizontal 1-18 GHz Rx)



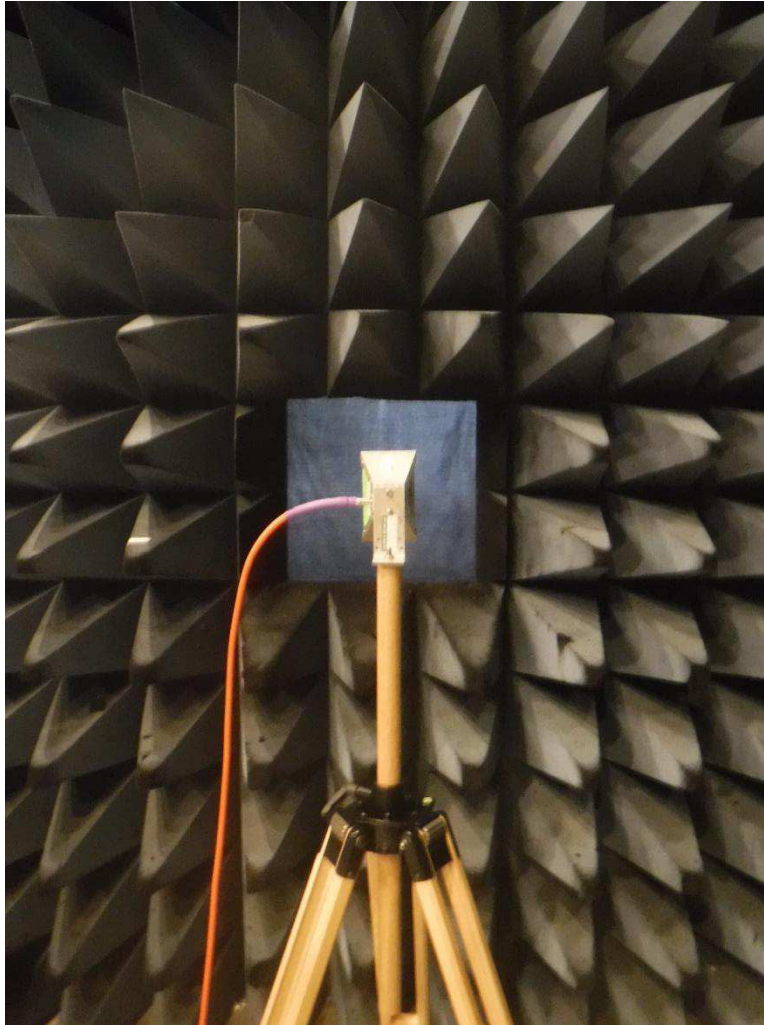
Photograph 2. Test Sample (Horn Antenna Horizontal 1-18 GHz Tx)



Photograph 3. Test Sample (Horn Antenna Vertical 1-18 GHz Rx)



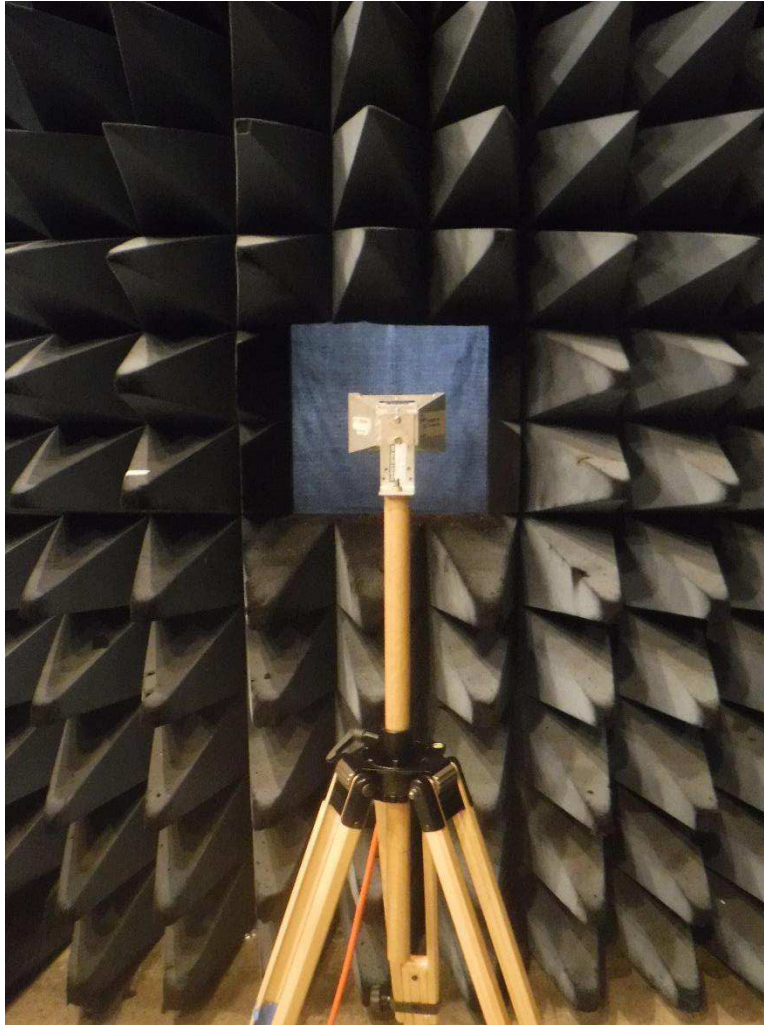
Photograph 4. Test Sample (Horn Antenna Vertical 1-18 GHz Tx)



Photograph 5. Test Sample (Horn Antenna Horizontal 18-40 GHz Rx)



Photograph 6. Test Sample (Horn Antenna Horizontal 18-40 GHz Tx)



Photograph 7. Test Sample (Horn Antenna Vertical 18-40 GHz Rx)



Photograph 8. Test Sample (Horn Antenna Vertical 18-40 GHz Tx)



Photograph 9. Test Sample (LPA Horizontal Rx)



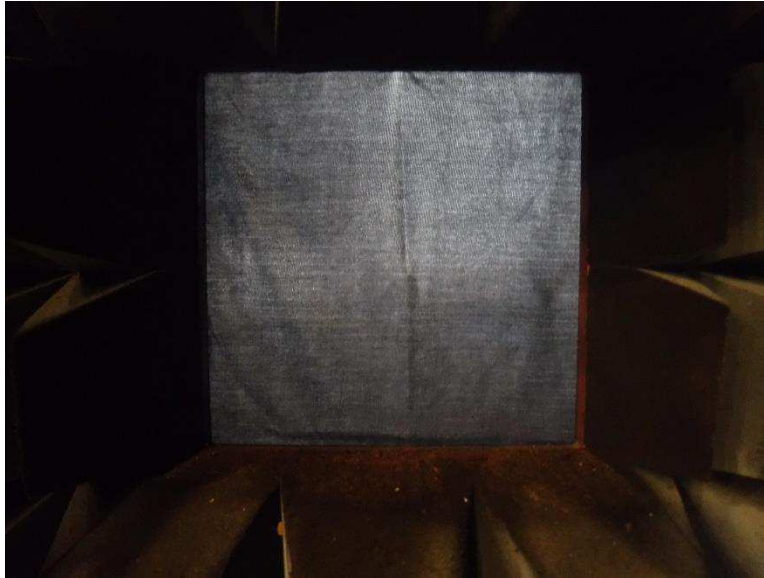
Photograph 10. Test Sample (LPA Horizontal Tx)



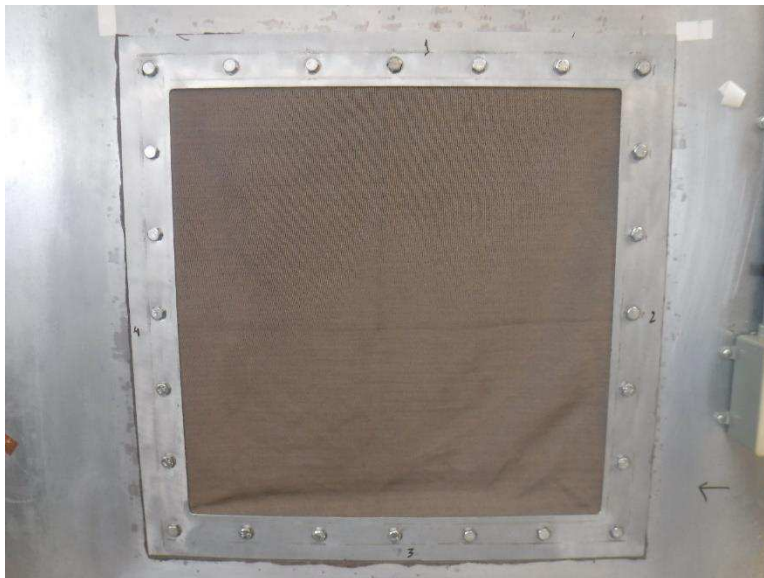
Photograph 11. Test Sample (LPA Vertical Rx)



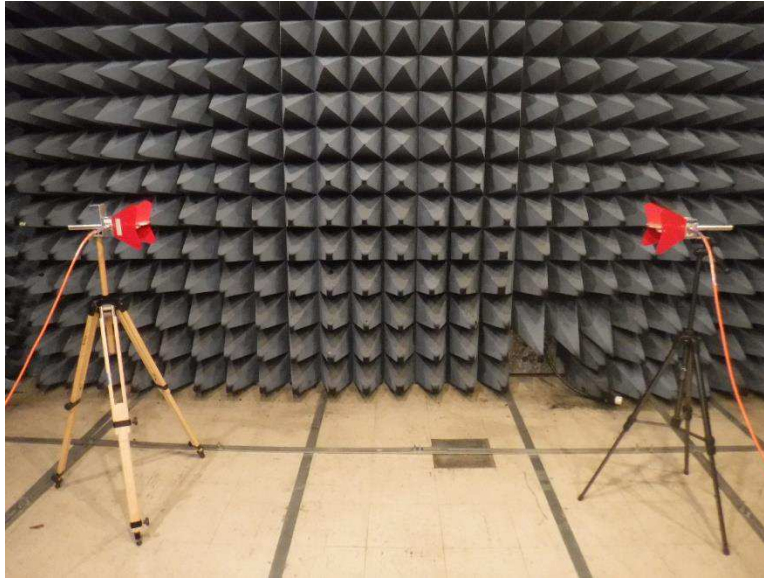
Photograph 12. Test Sample (LPA Vertical Tx)



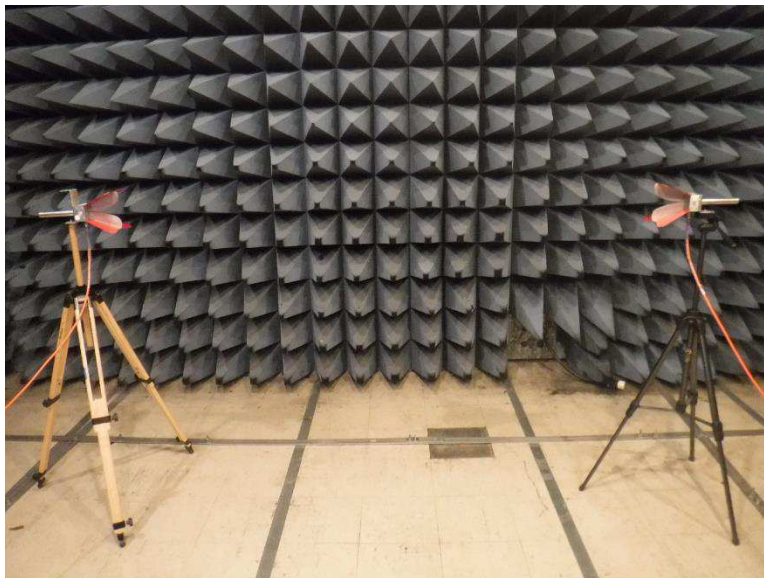
Photograph 13. Test Sample Mounted (Rx Side)



Photograph 14. Test Sample Mounted (Tx Side)



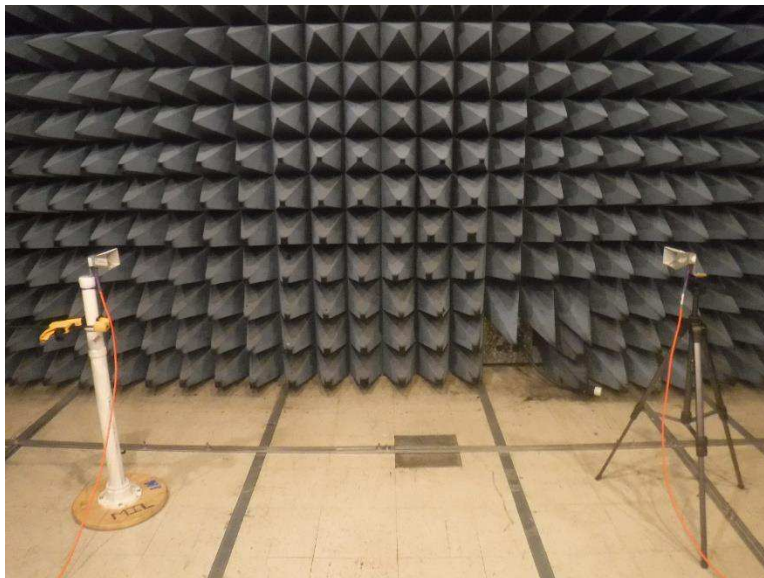
Photograph 15. Dynamic Range (Horn Antenna Horizontal 1-18 GHz)



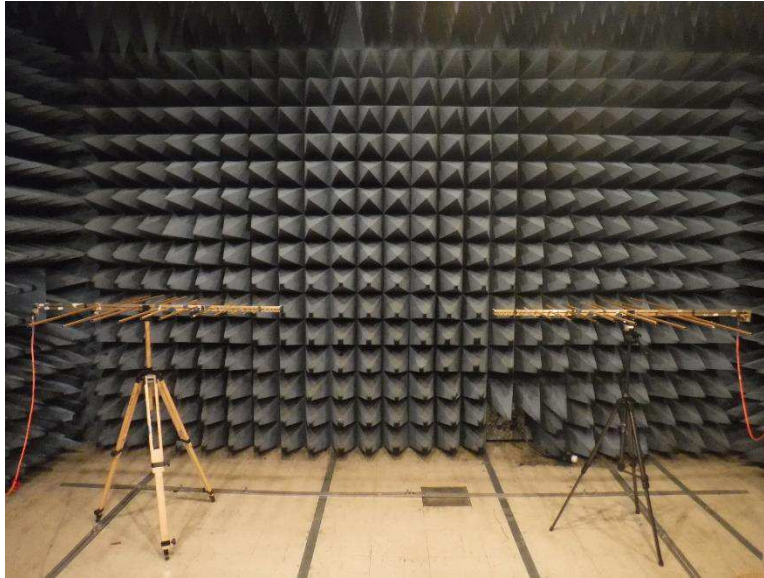
Photograph 16. Dynamic Range (Horn Antenna Vertical 1-18 GHz)



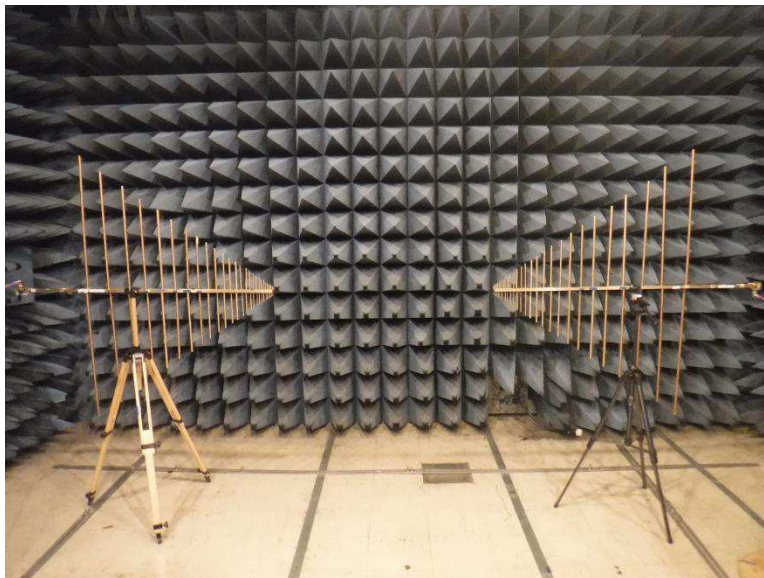
Photograph 17. Dynamic Range (Horn Antenna Horizontal 18-40 GHz)



Photograph 18. Dynamic Range (Horn Antenna Vertical 18-40 GHz)



Photograph 19. Dynamic Range (LPA Horizontal)



Photograph 20. Dynamic Range (LPA Vertical)

C. Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET #	EQUIPMENT	MANUFACTURER	MODEL#	CAL DATE	CAL DUE
1T4745	ANTENNA, HORN	ETS-LINDGREN	3116	FUNCTIONALLY VERIFIED	
1T4744	ANTENNA, HORN	ETS-LINDGREN	3116	03/04/2021	09/04/2022
1T4483	ANTENNA; HORN	ETS-LINDGREN	3117	FUNCTIONALLY VERIFIED	
1T4757	ANTENNA; HORN	ETS-LINDGREN	3117	06/29/2020	12/29/2021
1T8372	LOG PERIODIC ANTENNA	A.H.SYSTEMS, INC.	SAS-517	FUNCTIONALLY VERIFIED	
1T8373	LOG PERIODIC ANTENNA	A.H. SYSTEMS, INC.	SAS-517	FUNCTIONALLY VERIFIED	
1T4710	SIGNAL GENERATOR	HP	8648D	07/01/2020	01/01/2022
1T4739	SIGNAL GENERATOR	AGILENT TECHNOLOGIES	N5183A	09/16/2019	09/16/2021
1T4681	SPECTRUM ANALYZER (PSA)	AGILENT TECHNOLOGIES	E4448A	04/07/2020	10/07/2021
1T8854B	RF CABLE	MEGAPHASE	TM18-N1N1-79	FUNCTIONALLY VERIFIED	
1T8854C	RF CABLE	MEGAPHASE	TM18-N1N1-79	FUNCTIONALLY VERIFIED	
1T8804	RF CABLE	MEGAPHASE	TM40-K1K1-120	FUNCTIONALLY VERIFIED	
1T8805	RF CABLE	MEGAPHASE	TM40-K1K1-120	FUNCTIONALLY VERIFIED	

Table 4. Test Equipment

Note: Functionally verified test equipment is verified using calibrated instrumentation at the time of testing.

End of Test Report