

Certificate of Calibration

Fluke Nederland B.V.

Certificate Number:	SA01143854	Date of Calibration:	06 Mar 2023
Receive Condition:	IN TOLERANCE	Date of Recalibration:	06 Mar 2024
Return Condition:	IN TOLERANCE	Place of Calibration:	Eindhoven
Manufacturer:	FLUKE NETWORKS	Temperature within:	(23.0 ± 3) °C
Model:	DSX-8000	Humidity within:	(45 ± 20) %rh
Serial Number:	1837087		
Description:	2GHZ DSX CABLEANALYZER		
Procedure:	Manual Procedure		

Customer:	EQUICOM LTD. HU-1162 BUDAPEST
Customer Asset ID:	OMI4
RMA Number:	606299199

All measurements are traceable to national and/or international standards or have been derived by approved ratio techniques. When possible standards used for this calibration are ISO/IEC 17025 accredited calibrated.

This calibration is performed by a DEKRA certified lab for ISO 9001. This certificate may not be reproduced other than in full. Calibration certificates without signatures, either electronic or handwritten, are not valid.



Issue Date: 06 Mar 2023

Electronically signed

Authorized By

R. Mehta

Certificate of Calibration

Certificate Number: SA01143854

Remarks

- The calibration status found in this certificate on the top of each results page must be interpreted as:
 - As Found : Data collected before the unit was adjusted and / or repaired
 - As Left : Data collected after the unit has been adjusted and / or repaired
 - Found / Left : Data collected without any adjustment and / or repair performed
- The calibration interval (due date) is the responsibility of the end user.
- According to the European norm 'Operation of electrical installations' NEN-EN 50110-1 release 2013 and the Dutch norm NEN 3140 release 2015 paragraph 5.102.12 through 5.102.16, a safety test is not required. Therefore not performed.
- Temperature conversions (if applicable) are performed according to ISO/IEC 60584:2013 for thermocouples, and ISO/IEC 60751:2022 for resistance temperature devices.

Standards and test-equipment used

Inventory No	Model	Serial No
WP2991	DSX-CALVERST	E000243

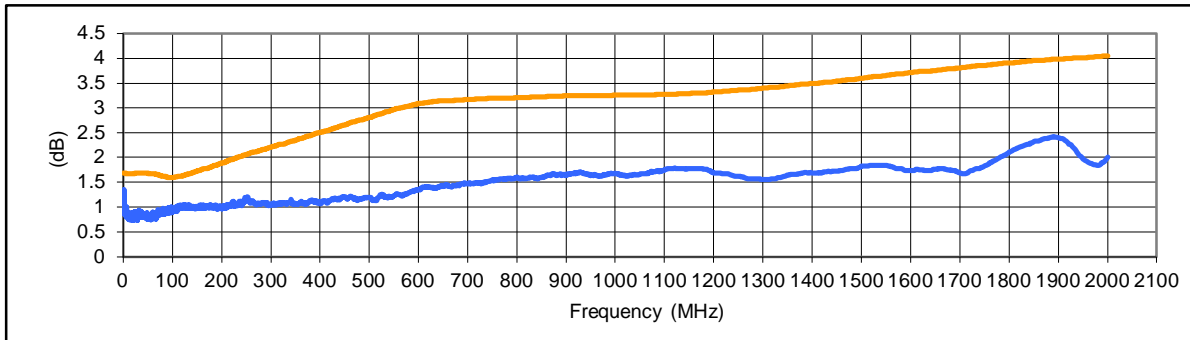
Found-Left Report

Model **DSX-8000 CAT 8 2000MHz Copper Module**
 Serial Number **1837087**

Test date **6-Mar-23**
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NEXT

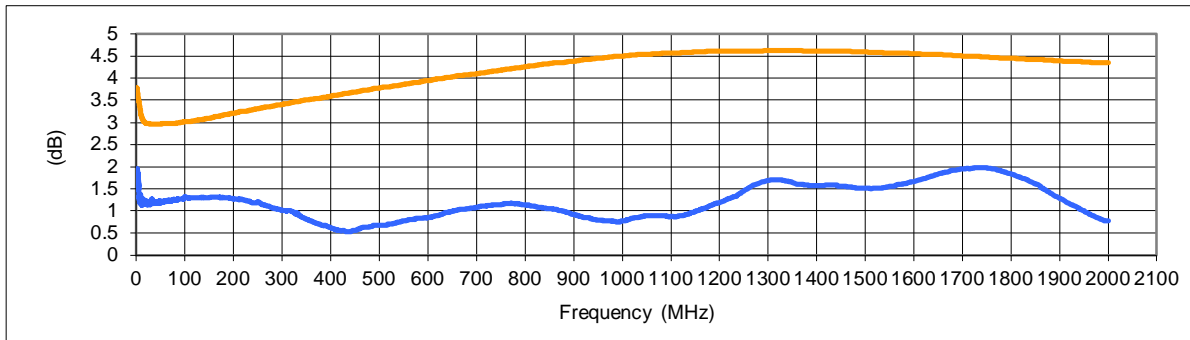
NEXT Artifact SN 20262745



Pass Worst margin: 0.340 at 1.5 MHz in pair 36-12. Worst accuracy at each frequency shown.

CDNEXT

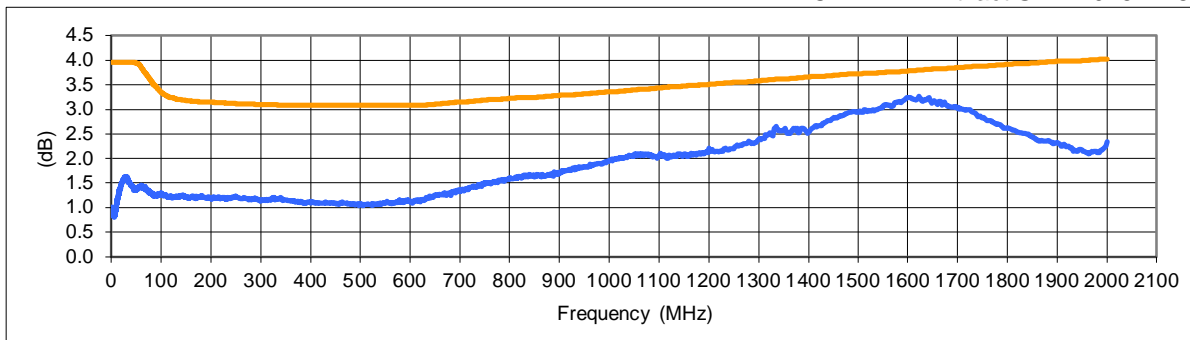
CDNEXT Artifact SN 20262710



Pass Worst margin: 1.680 at 100 MHz in pair 36-12. Worst accuracy at each frequency shown.

CMRL

CMDMRL Artifact SN 20262728



Pass Worst margin: 0.530 at 1600 MHz in pair 45. Worst accuracy at each frequency shown.

- Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.
- Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

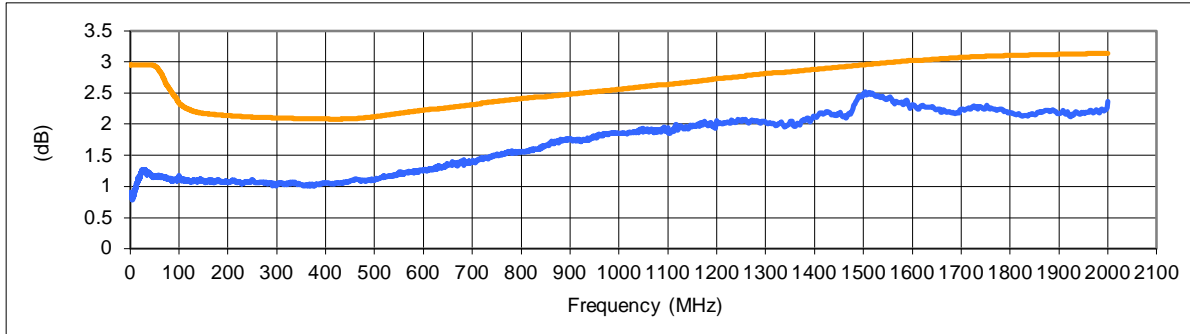
Found-Left Report

Model **DSX-8000 CAT 8 2000MHz Copper Module**
 Serial Number **1837087**

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RL

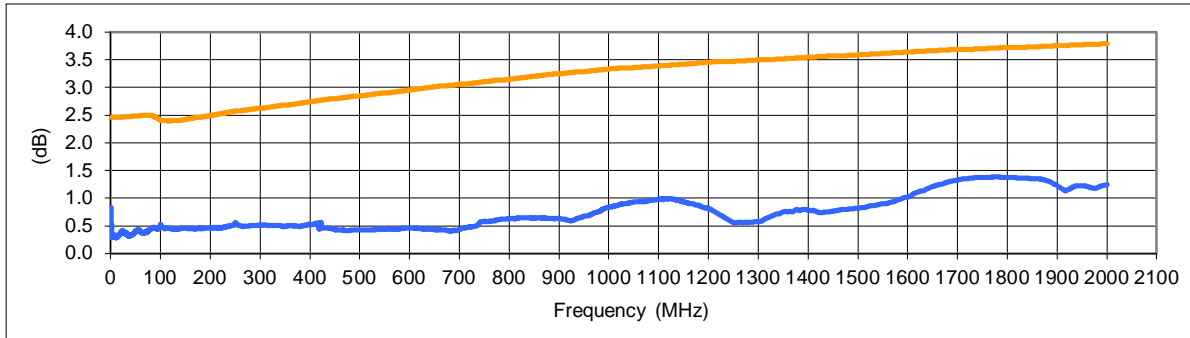
CMDMRL Artifact SN 20262728



Pass Worst margin: 0.430 at 1504 MHz in pair 36. Worst accuracy at each frequency shown.

TCL

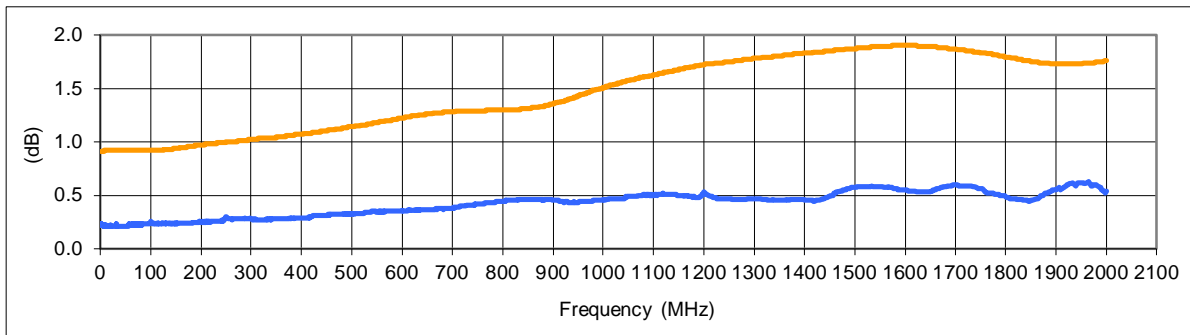
TCL Artifact SN 20262772



Pass Worst margin: 1.630 at 1 MHz in pair 78. Worst accuracy at each frequency shown.

IL

ILFEXT Artifact SN 20373232



Pass Worst margin: 0.660 at 99.75 MHz in pair 45. Worst accuracy at each frequency shown.

- Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.
- Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

Found-Left Report

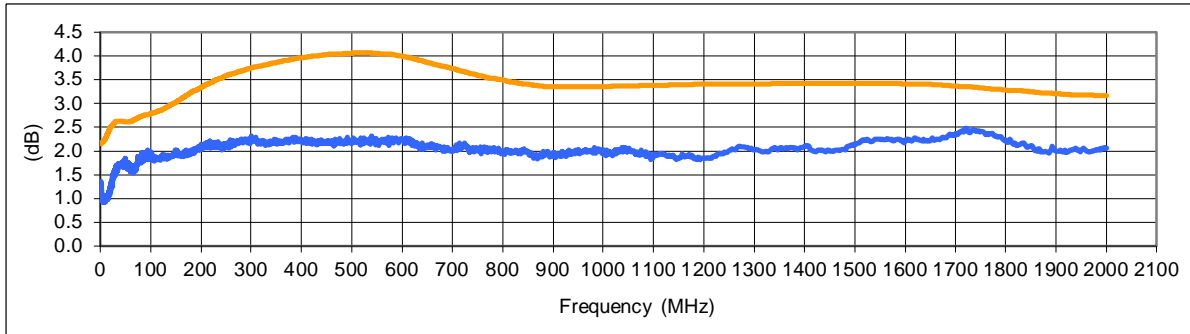
Model **DSX-8000 CAT 8 2000MHz Copper Module**
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FEXT

ILFEXT Artifact SN 20373232



Pass Worst margin: 0.730 at 93.75 MHz in pair 78-12. Worst accuracy at each frequency shown.

- Measured difference of DSX and reference laboratory equipment added to measurement accuracy of reference laboratory equipment. Worst accuracy at each frequency shown.
- Corresponding measurement accuracy requirement for nominally compliant Level IV or Level 2G/VI field tester.

Loop Resistance

Loop Resistance Artifact SN 20373218

	Measured	Expected	Limit	
Resistance on pair 12	0.27	0.00	0.80	Pass
Resistance on pair 36	49.91	49.80	0.60	Pass
Resistance on pair 45	100.07	99.80	1.60	Pass
Resistance on pair 78	452.14	453.00	4.00	Pass

Resistance imbalance

Resistance Unbalance Artifact SN 20373188

	Measured	Expected	Limit	
Resistance on pair 12	0.28	0.00	0.80	Pass
Resistance on pair 36	25.13	24.90	0.90	Pass
Resistance on pair 45	12.42	12.13	0.90	Pass
Resistance on pair 78	24.37	24.05	0.90	Pass
Resistance imbalance on pair 12	0.00	0.00	0.05	Pass
Resistance imbalance on pair 36	0.00	0.00	0.13	Pass
Resistance imbalance on pair 45	0.33	0.32	0.06	Pass
Resistance imbalance on pair 78	0.85	0.85	0.12	Pass

DSX-8000 only: M_IL and M_FEXT measurements validate the ability of the DSX-8000 to make measurements with DSX-5000 adapters.

M IL

M_ILFEXT Artifact SN 20373259

Pass Worst margin: 0.660 at 2 MHz in pair 78

M FEXT

M_ILFEXT Artifact SN 20373259

Pass Worst margin: 0.310 at 109 MHz in pair 36-12

Test Program TFSTest v2.5.7025
 DSX Report Form v3.05 18-May-2017