



Test Report GT-18-097

HERMETIC QUADRAX CONNECTOR 233-261H7Z111-1PN-01,
PIN-SOCKET

Date:
05/04/18

Prepared and tested by:

Ali Saberi
Sr. Staff Engineer

Omar Cota
Engineering Assistant

Frank Quach
Sr. Project Engineer

Test Location: Glenair, Inc. Glendale, California

Mailing Address: 1211 Air Way, Glendale, CA 91201

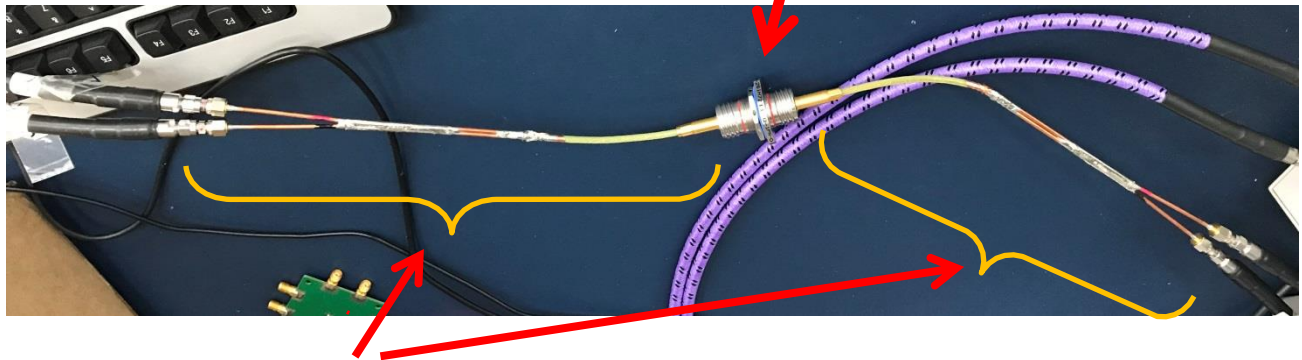
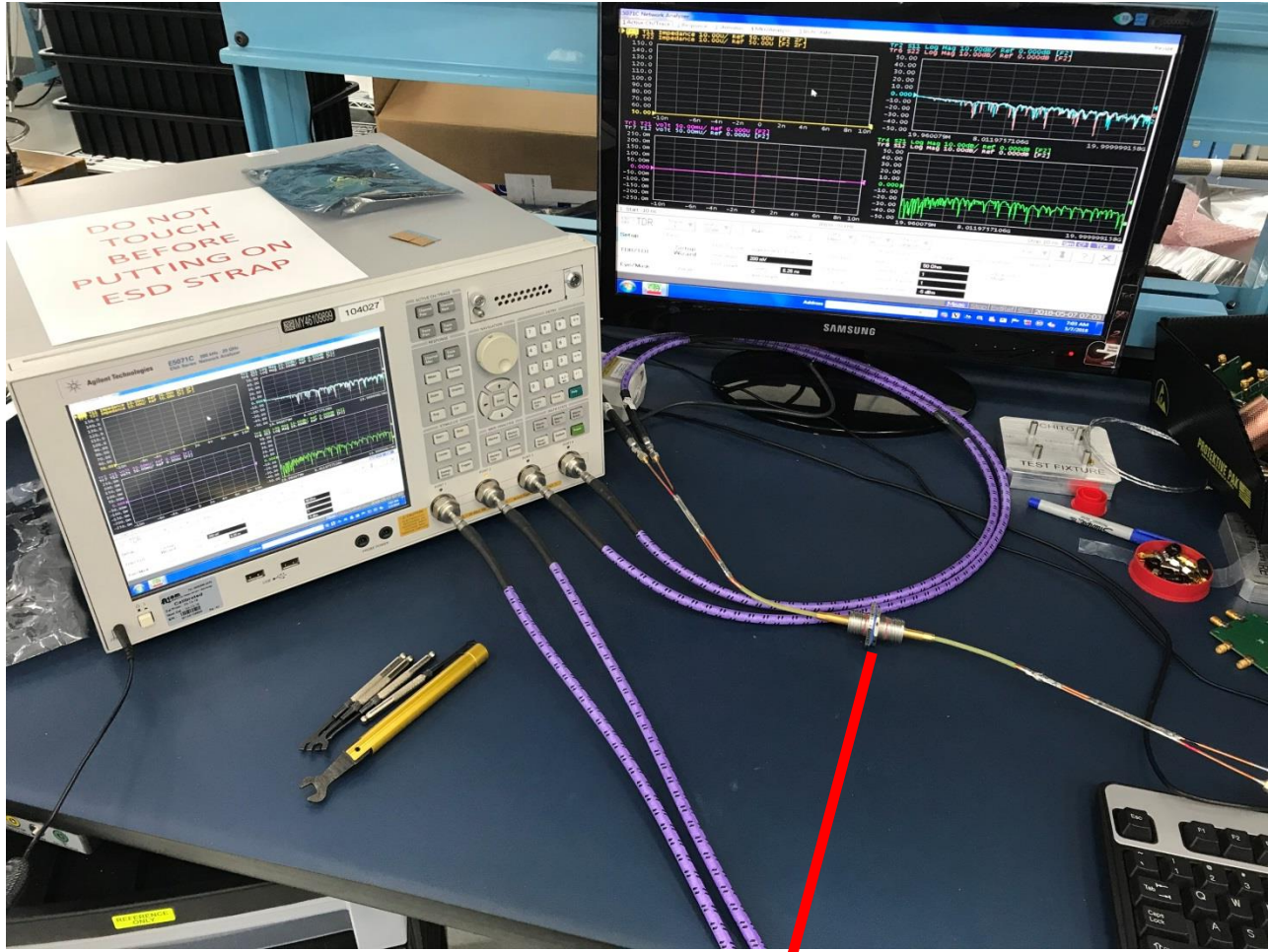
Revision	Description	By	Date
1	Initial Released	Frank Quach	05/04/2018



Connector
under Test



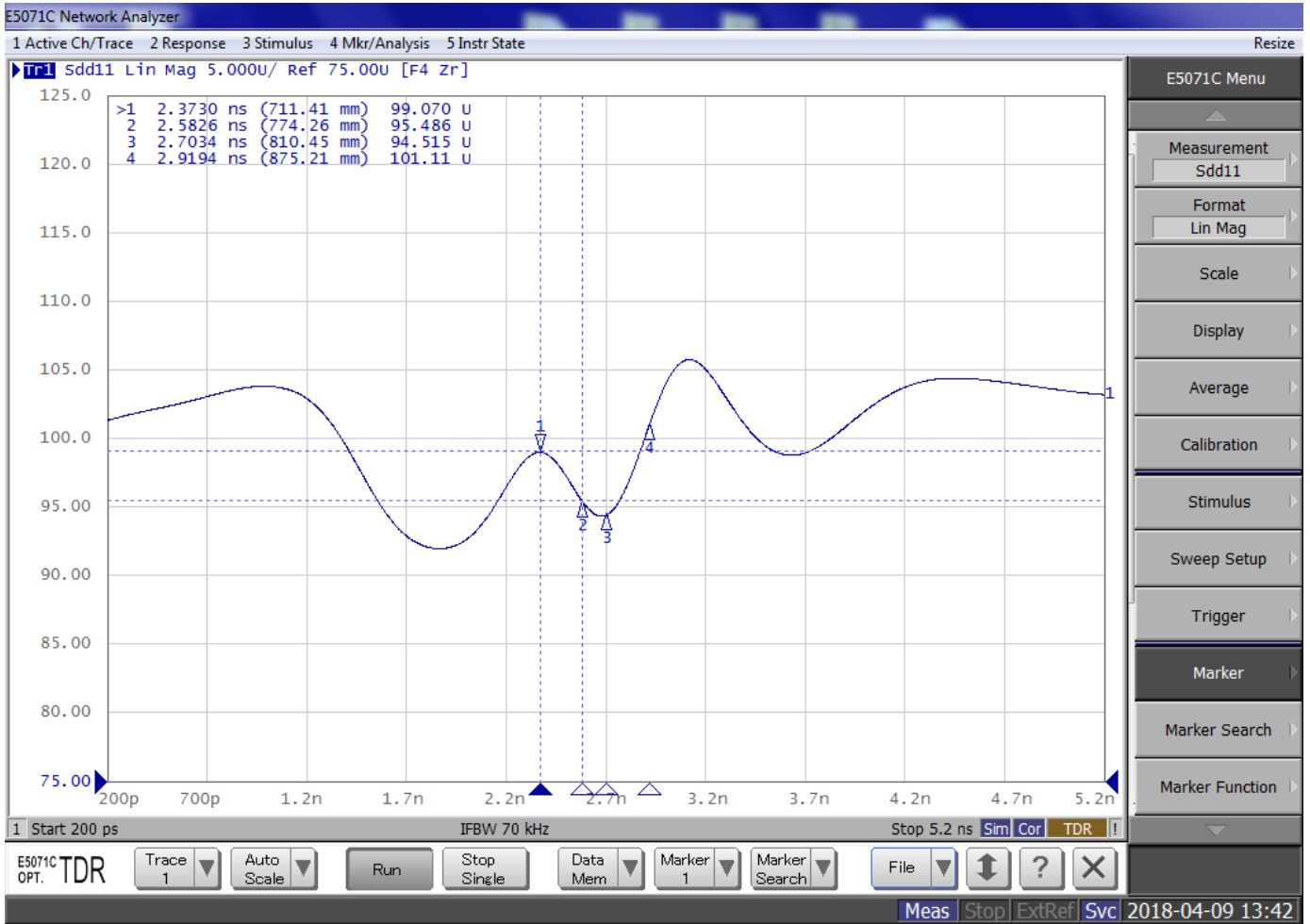
NETWORK ANALYZER AGILENT E5071C



Mating Quadrax contacts with 3" of cable
NF26Q100 + 6" of Semi Rigid to SMA

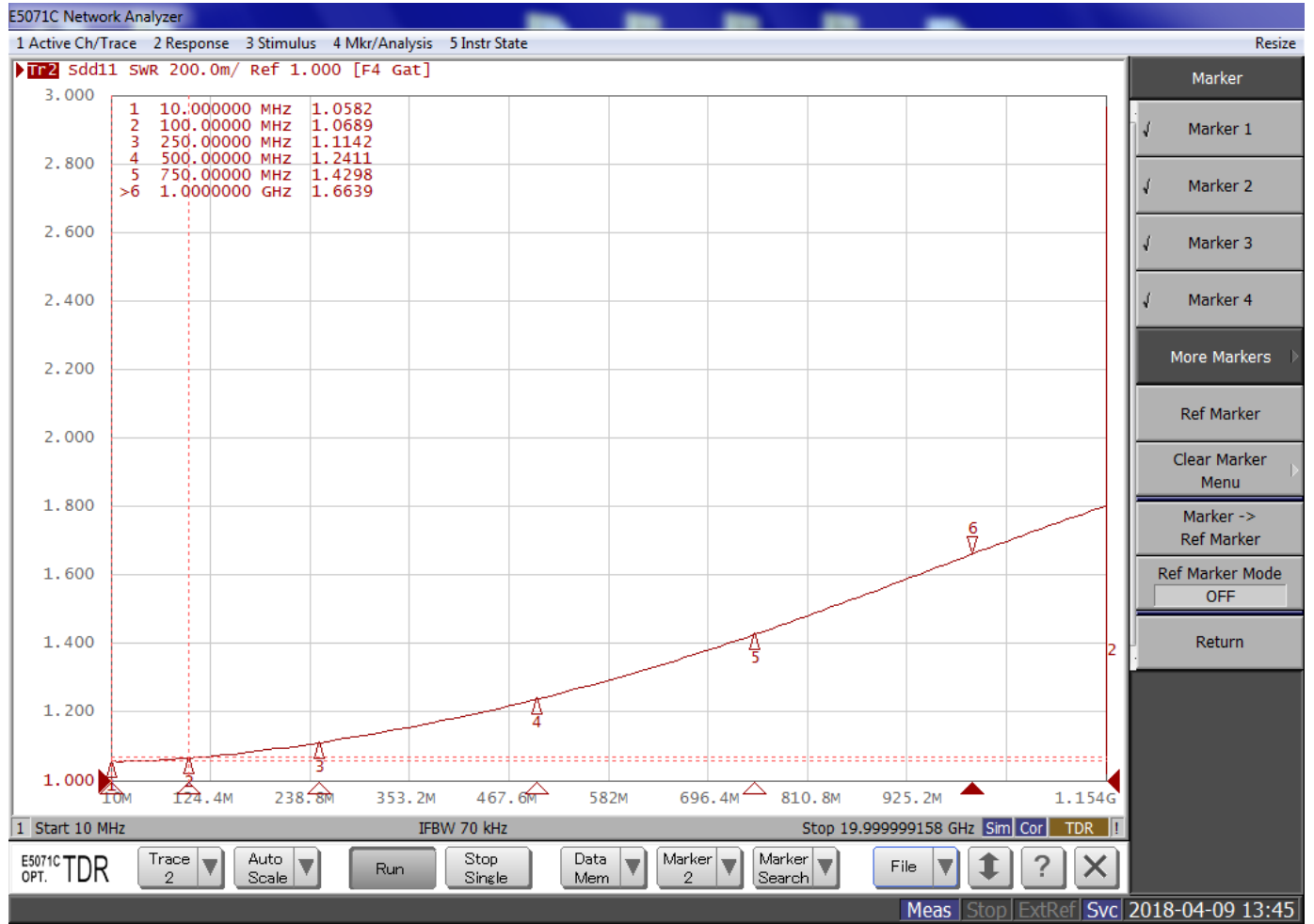


TDR (pin 1-3)



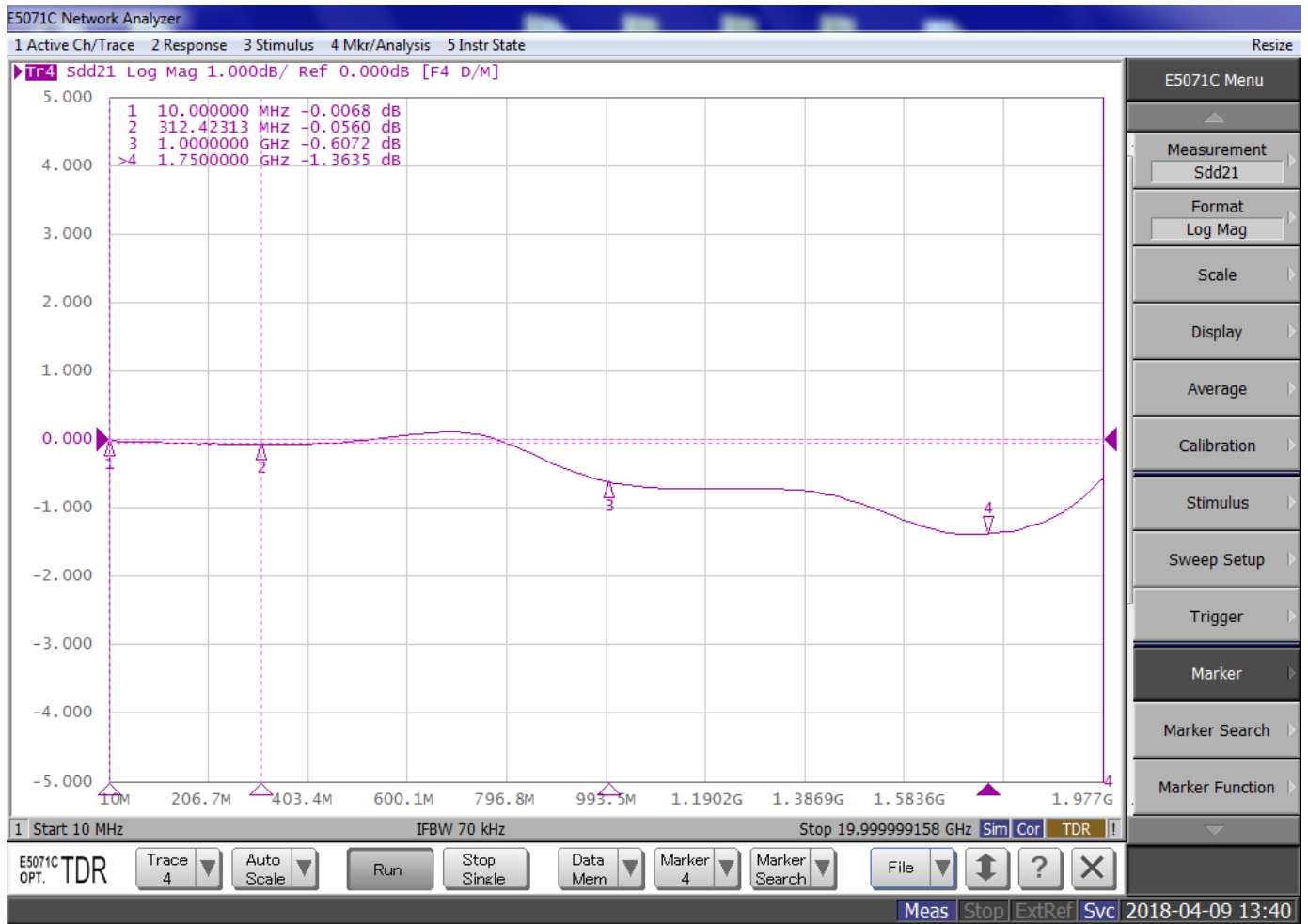


VSWR Pin 1-3





INSERTION LOSS PIN 1-3



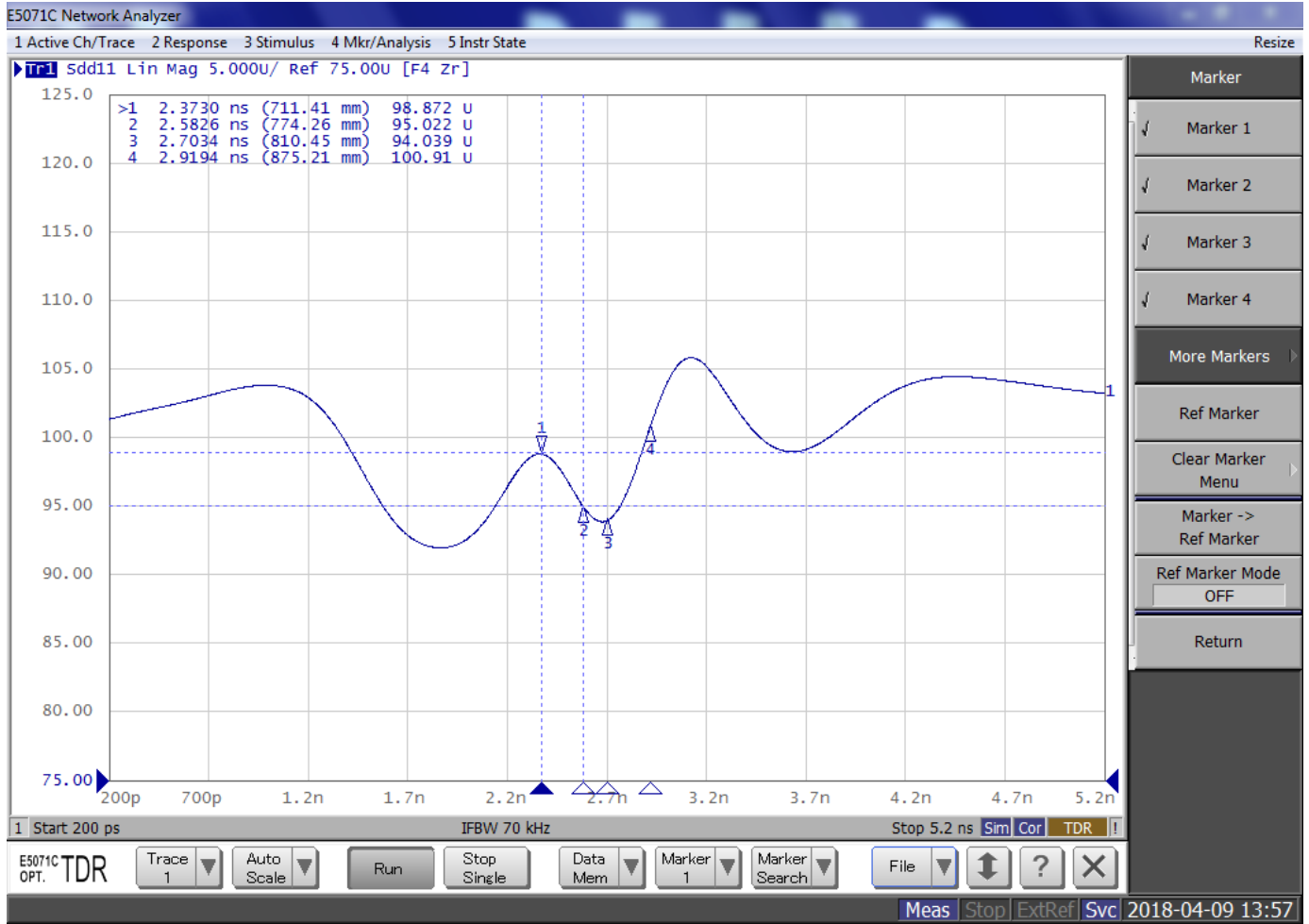


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HERMETIC QUADRAX CONNECTOR 233-261H7Z111-1PN-01,
PIN-SOCKET

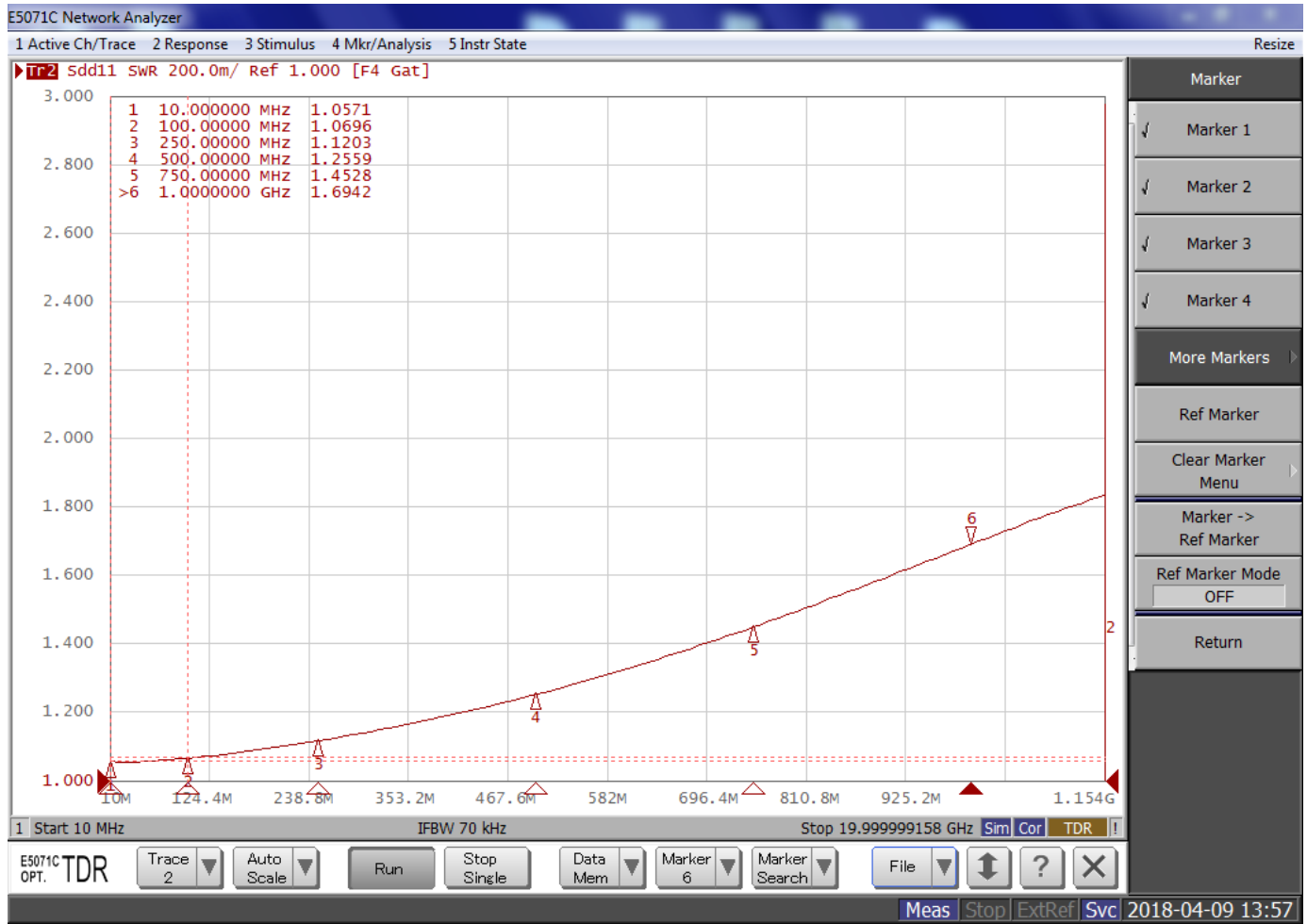
Date:
05/04/18

TDR Pin 2-4



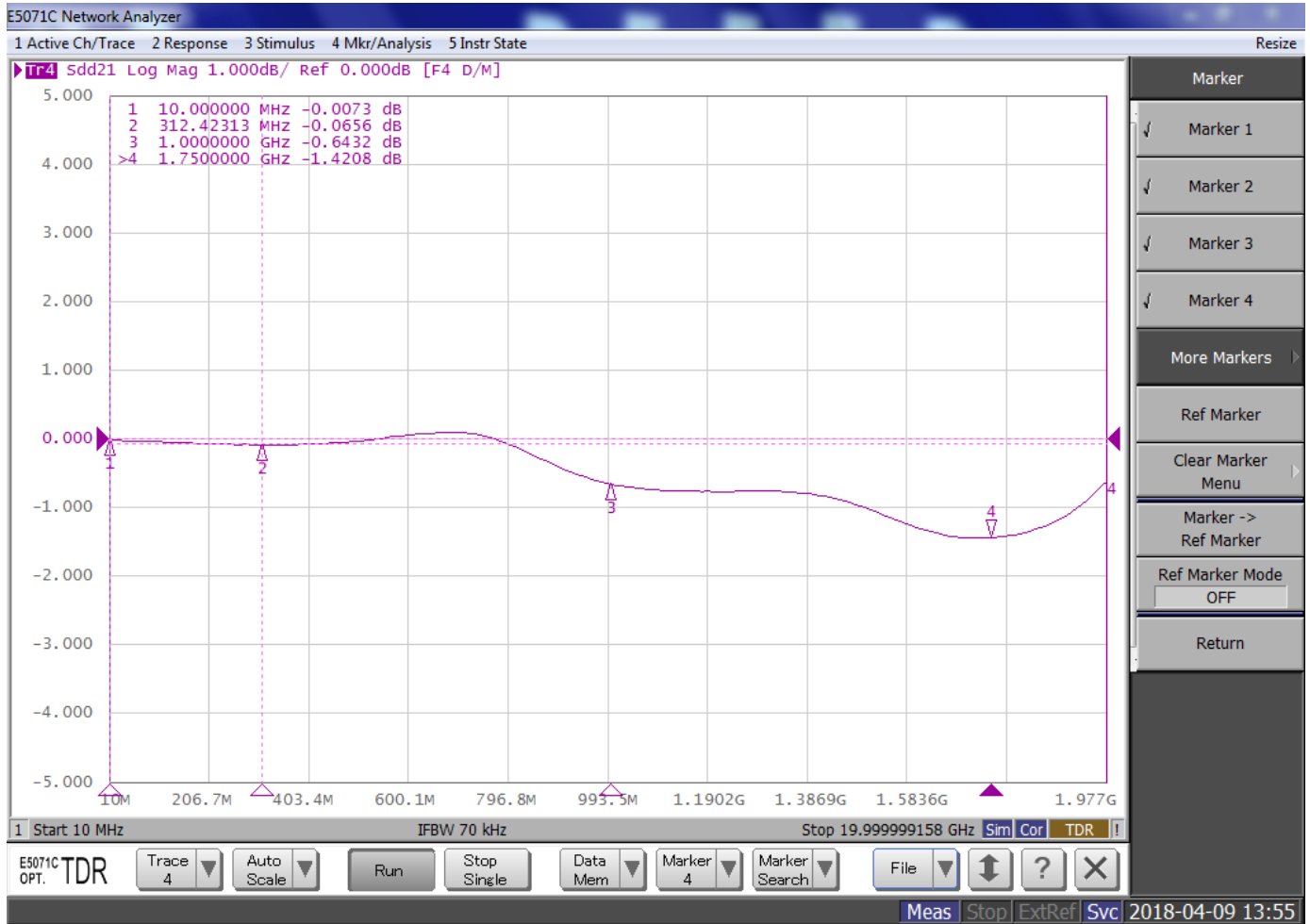


VSWR Pin 2-4





Insertion Loss Pin 2-4



Ethernet Testing





Cable ID: 233-261H7Z111Q-1PN-01

Date / Time: 05/04/2018 04:28:44 PM

Headroom 23.3 dB (NEXT 13-24)

Test Limit: 100BASE-TX

Cable Type: Cat 5e U/UTP

NVP: 69.0%

Operator: OMAR

Software Version: V5.5 Build 2

Limits Version: V6.3

Calibration Date:

Main (Module): 04/20/2018

Remote (Module): 04/20/2018

Test Summary: PASS

Model: DSX-5000

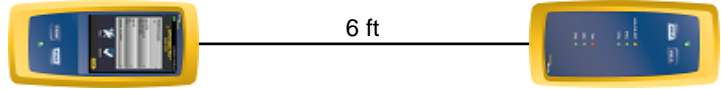
Main S/N: 2766352

Remote S/N: 2766289

Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

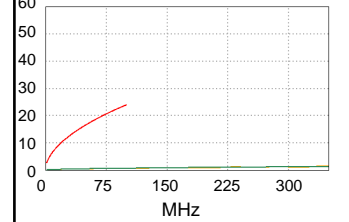
Length (ft), Limit 328	[Pair 13]	6
Prop. Delay (ns)	[Pair 24]	8
Delay Skew (ns)	[Pair 13]	0
Resistance (ohms), Limit 25.00	[Pair 13]	0.38
Impedance (ohms), Limit 85-115	[Pair 13]	Too Short
Insertion Loss Margin (dB)	[Pair 24]	23.3
Frequency (MHz)	[Pair 24]	100.0
Limit (dB)	[Pair 24]	24.0



Wire Map (M12-D Two-Pair)



Insertion Loss (dB)

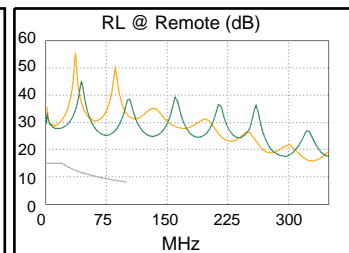
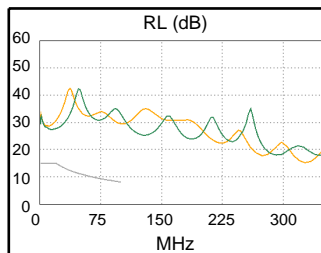
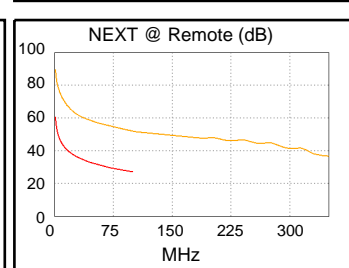
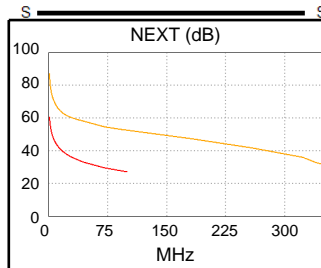


Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	13-24	13-24	13-24	13-24
NEXT (dB)	23.3	24.8	25.3	25.0
Freq. (MHz)	15.8	77.5	100.0	100.0
Limit (dB)	40.6	29.0	27.1	27.1

N/A	MAIN	SR	MAIN	SR
Worst Pair	24	24	24	24
RL (dB)	12.4	12.7	12.4	16.0
Freq. (MHz)	16.8	17.8	16.8	76.3
Limit (dB)	15.0	15.0	15.0	9.2

Compliant Network Standards:
10BASE-T 100BASE-TX





Cable ID: 233-261H7Z111Q-1PN-01

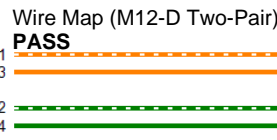
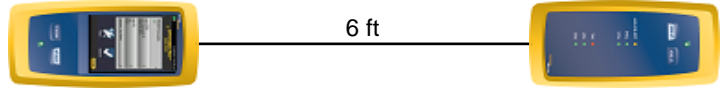
Date / Time: 05/04/2018 04:39:07 PM
Headroom 20.4 dB (NEXT 13-24)
Test Limit: ISO11801 Channel Class D 2pr Cable
 Type: Cat 5e U/UTP
 NVP: 69.0%

Operator: OMAR
 Software Version: V5.5 Build 2
 Limits Version: V6.3
 Calibration Date:
 Main (Module): 04/20/2018
 Remote (Module): 04/20/2018

Test Summary: PASS

Model: DSX-5000
 Main S/N: 2766352
 Remote S/N: 2766289
 Main Adapter: DSX-CHA004
 Remote Adapter: DSX-CHA004

Length (ft), Limit 328	[Pair 13]	6
Prop. Delay (ns), Limit 555	[Pair 13]	8
Delay Skew (ns), Limit 50	[Pair 13]	0
Resistance (ohms), Limit 25.00	[Pair 13]	0.49
Insertion Loss Margin (dB)	[Pair 13]	23.4
Frequency (MHz)	[Pair 13]	100.0
Limit (dB)	[Pair 13]	24.0



Worst Case Margin Worst Case Value

N/A	MAIN	SR	MAIN	SR
Worst Pair	13-24	13-24	13-24	13-24
NEXT (dB)	20.4	21.1	21.6	21.3
Freq. (MHz)	19.5	77.8	100.0	100.0
Limit (dB)	42.2	32.0	30.1	30.1

Worst Pair	13	13	13	13
PS NEXT (dB)	23.4	24.1	24.6	24.3
Freq. (MHz)	19.5	77.8	100.0	100.0
Limit (dB)	39.2	29.0	27.1	27.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	24-13	13-24	13-24	24-13
ACR-F (dB)	37.7	37.7	41.5	41.5
Freq. (MHz)	19.0	19.0	100.0	100.0
Limit (dB)	31.8	31.8	17.4	17.4

Worst Pair	13	24	24	13
PS ACR-F (dB)	42.0	42.0	44.5	44.5
Freq. (MHz)	30.9	30.9	100.0	100.0
Limit (dB)	24.6	24.6	14.4	14.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	13-24	13-24	13-24	13-24
ACR-N (dB)	24.7	28.8	45.0	44.7
Freq. (MHz)	2.8	3.6	100.0	100.0
Limit (dB)	52.2	49.9	6.1	6.1

Worst Pair	13	13	13	13
PS ACR-N (dB)	27.7	31.8	48.0	47.7
Freq. (MHz)	2.8	3.6	100.0	100.0
Limit (dB)	49.2	46.9	3.1	3.1

N/A	MAIN	SR	MAIN	SR
Worst Pair	24	24	24	24
RL (dB)	10.2	10.8	10.2	13.3
Freq. (MHz)	16.3	16.4	16.3	76.3
Limit (dB)	17.0	17.0	17.0	11.2

