

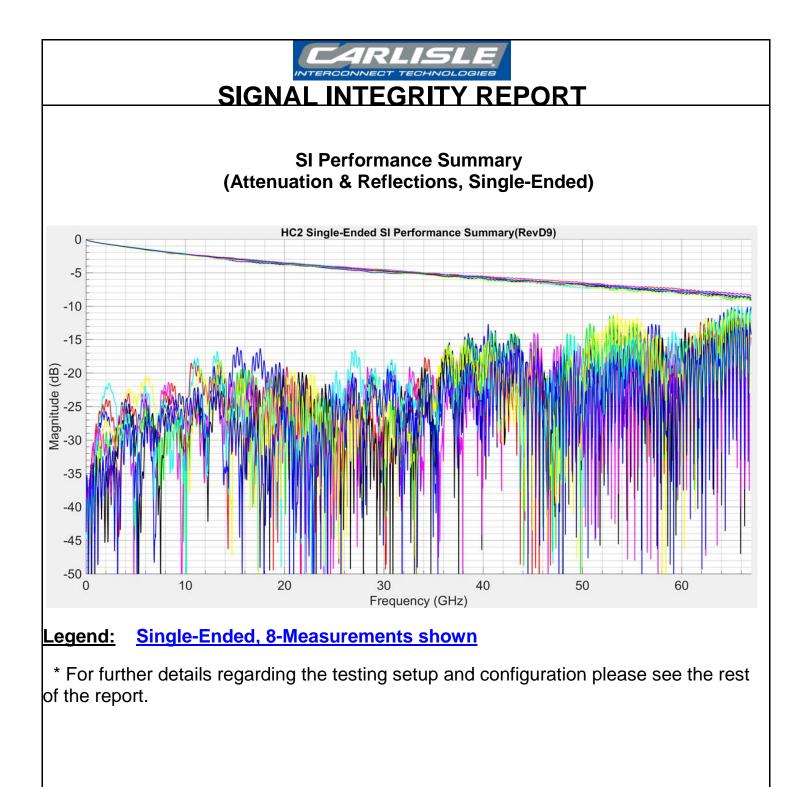
Test and Measurement Performance Report

Part Number TM7SSSH28S8MS028 (Core HC) **Distribution**: Internal and External Use



	RSI-1M7SSSH28S8MS028	R.Stavoli	H.Tran	E.Soubh
RSI-TM7SSSH28S8MS028 R.Stavoli H.Tran E.Soubh				
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TEMPLATE FILENAME: SPM[SIZE_A](V.1).DOC



<u>REVISION:</u>	ECN INFORMATION: EC No: N/A DATE: 05/ 12 / 2020	TITLE: Core HC 2.5mm CPW: Configuration 1X8P (HC2 to PCB) CARLISLE IT CONFIDENTIAL		ration	<u>SHEET No.</u> 2 of 18
DOCUMENT NUMBER:		SI ENGINEER:	<u>R:</u> <u>DESIGN ENGINEER</u> ENGINEERIN		<u>G MANAGER</u>
RSI-TM7SSSH28S8MS028		R.Stavoli H.Tran E.S		E.So	ubh
			TEMF	LATE FILENAME: SPM	[SIZE_A](V.1).DOC

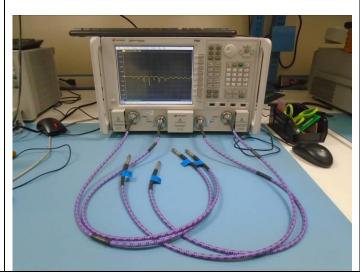


1.0 TEST SETUP AND DUT

Equipment, fixtures, and methods

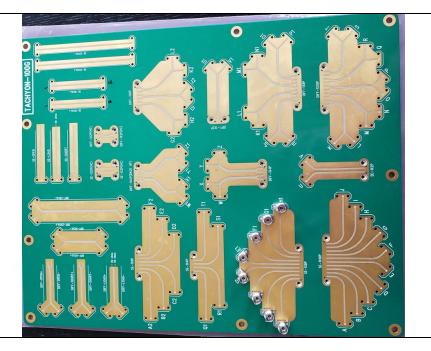
Test method: All data measured from test PCB shown below and a N5227A PNA Network Analyzer

- Calibration was performed up to the 1. 85mm SMA adapters using calibration kit: 85058B
- Data was swept from 10 MHz to 67GHz for 6700 points
- Data averaging was turned off.
- Data is not dembedded and includes the board traces and the Core HC cable assembly



Assembly Description

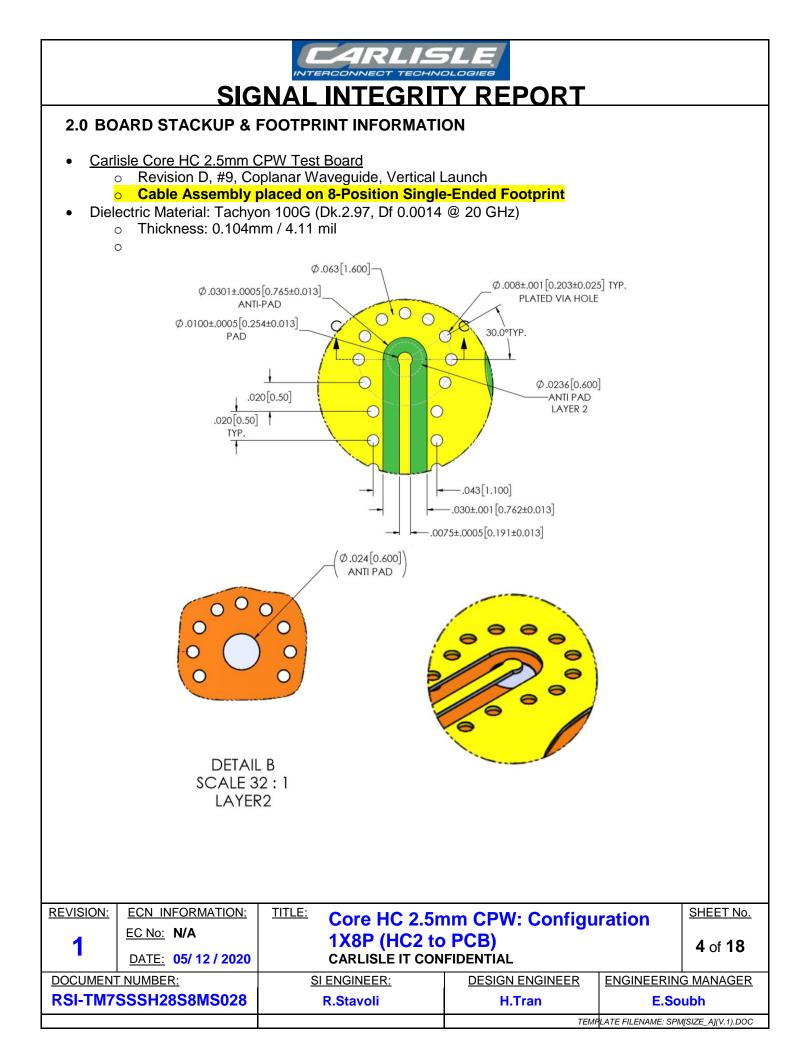
- T&M PN: TM7SSSH28S8MS028
- 8- Position LCP Connector Housing, single piece at the interface
- <u>11-inch solid center conductor</u> 092 coax cable
- Carlisle DUT PCB: Core HC, CPW, Vertical Launch, <u>**Rev D**</u>, <u>#9</u>
- Port 1: 1.85mm Cable Connector (Core HC)
- Port 2: 1.85mm CPW Vertical Launch Precision Connector (on HC2, CPW PCB)

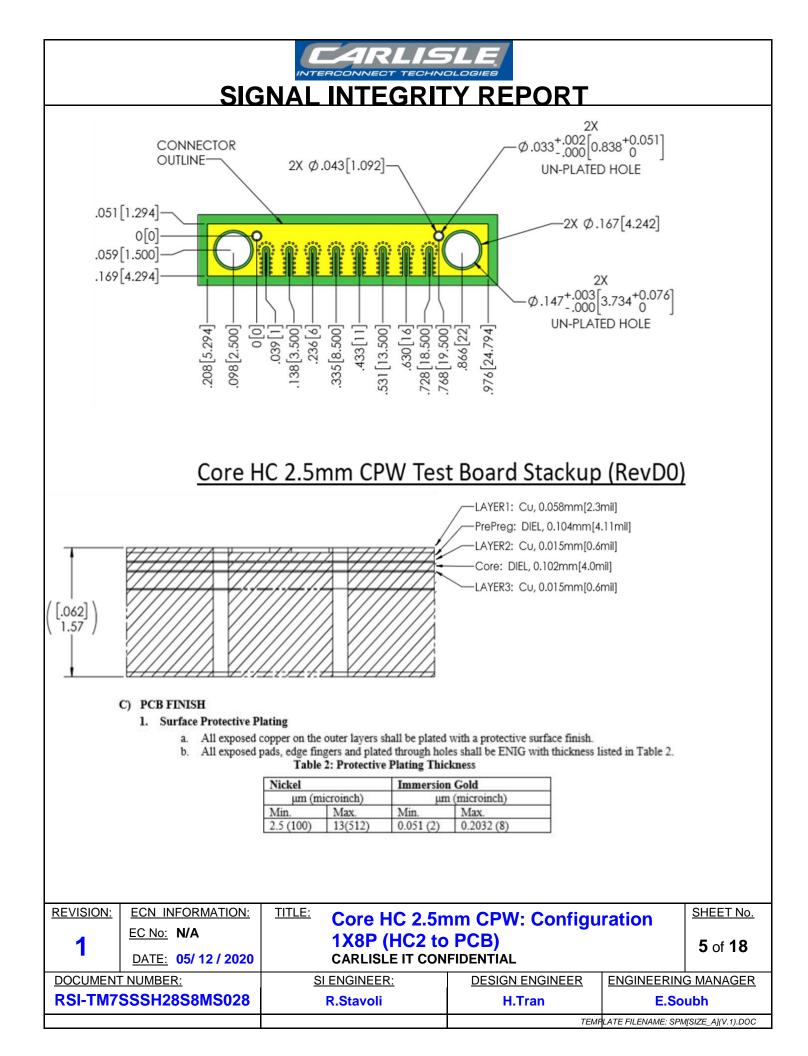


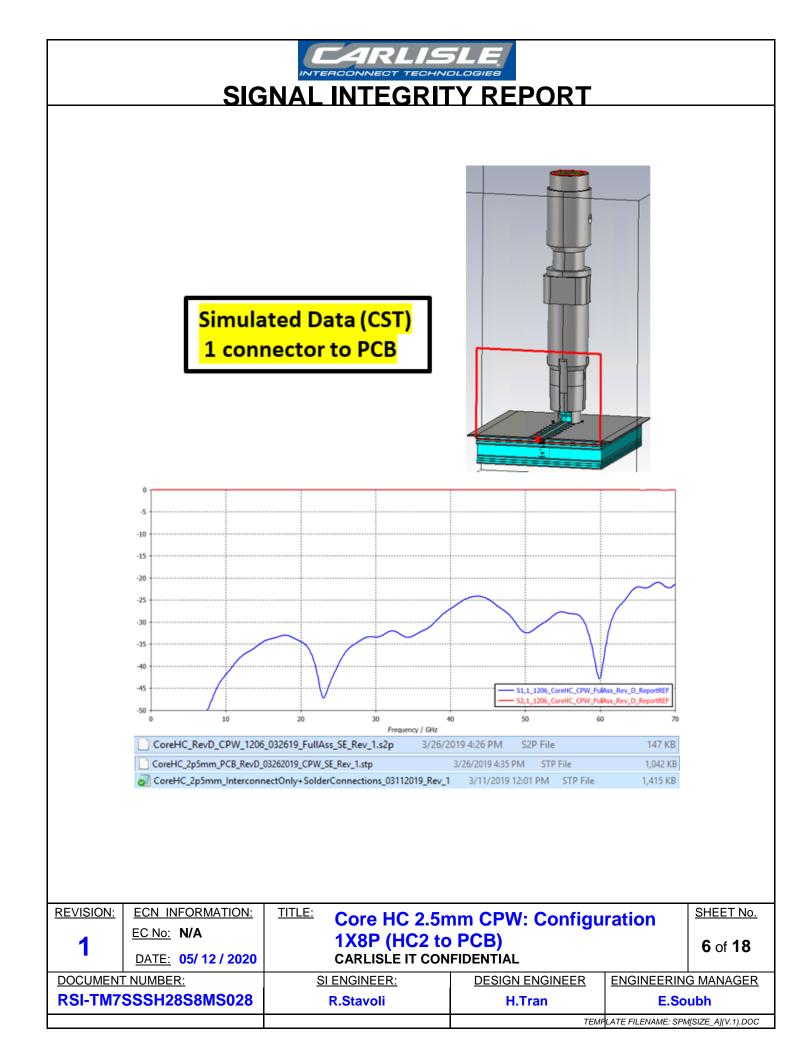
Testing Samples:

- 1 Samples
- 8 Channels
- 8 THRU Measurements w/ PCB (8 Channels x 1 samples) -> -Single-Ended
 8 TURU Measurements w/RE Adapter (8 Chan x 1 samples)
- 8 THRU Measurements w/RF Adaptor (8 Chan. x 1 samples) → Single-Ended

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RSI-TM7	SSSH28S8MS028	R.Stavoli H.Tran E.So		ubh	
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SIGNAL INTEGRITY REPORT

3.0 MEASUREMENT SET-UP (HC2 CPW REVD BOARD)

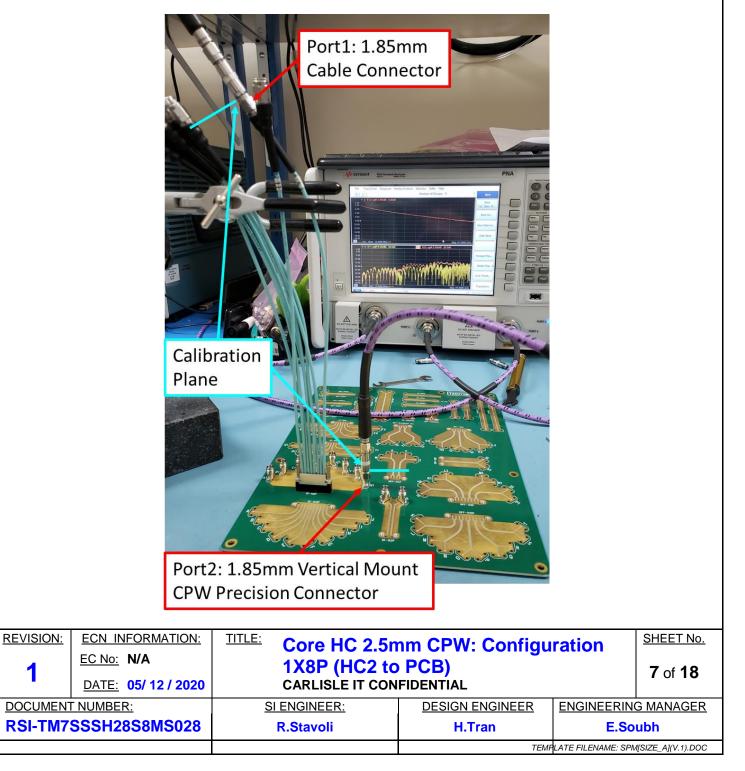
Port 1: Core HC (1.85mm Cable Connector)

1

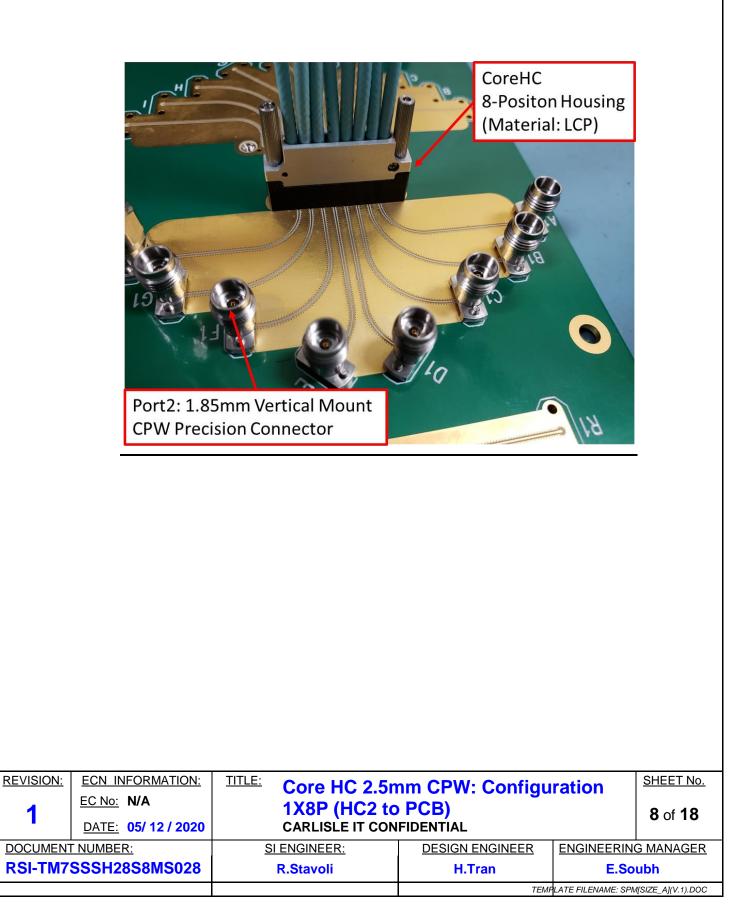
Device Under Test

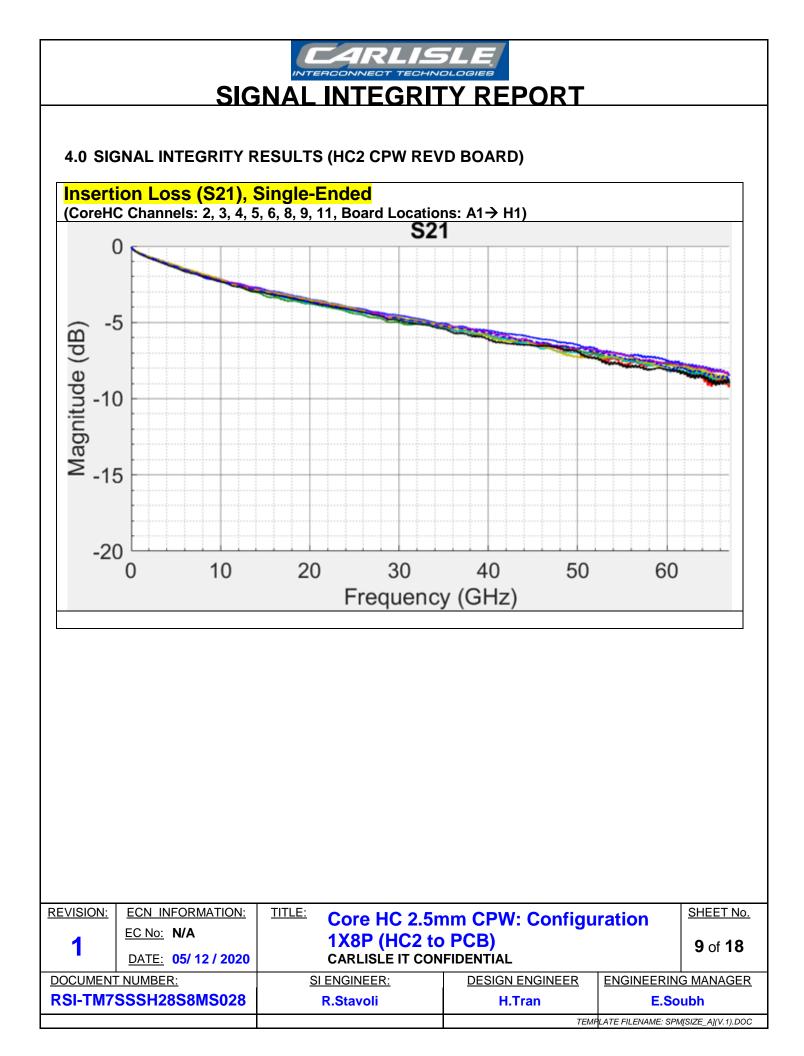
Port 2: Core HC RevD PCB (1.85mm CPW Vertical Mount Precision Connector)

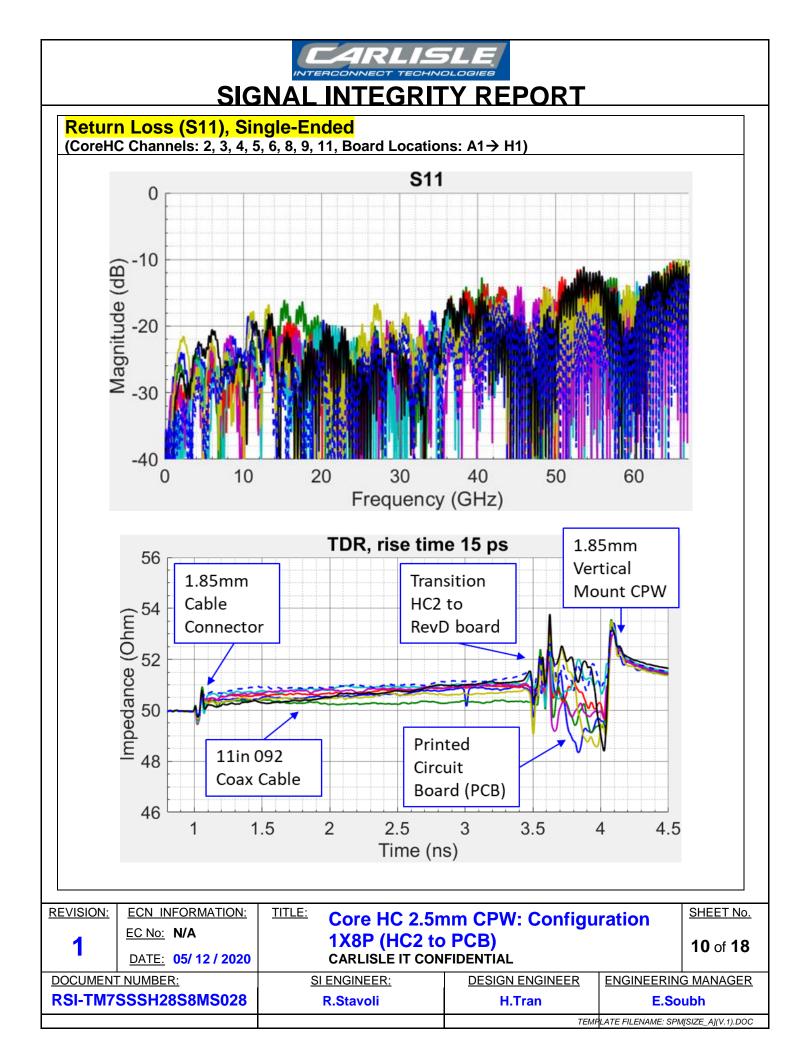
Measurements are not dembedded and include the Core HC assembly (cable connector, cable, interconnect), PCB (transitions, traces) and 1.85mm CPW vertical mount precision connector.





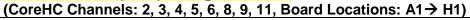


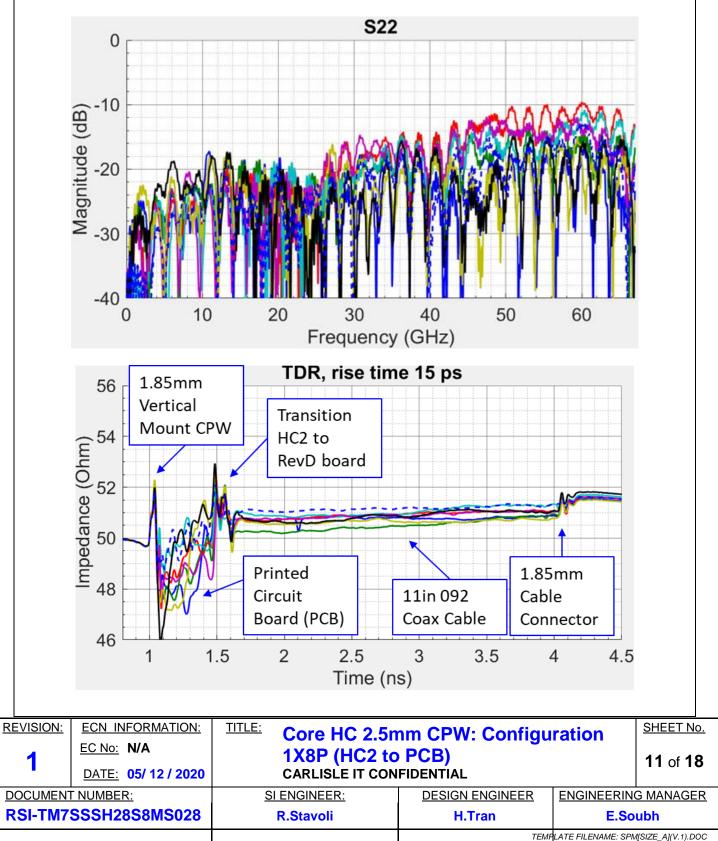




SIGNAL INTEGRITY REPORT

Return Loss (S22), Single-Ended







5.0 SIGNAL INTEGRITY RESULTS (HC2 CPW REVD BOARD), CHANNEL #9

