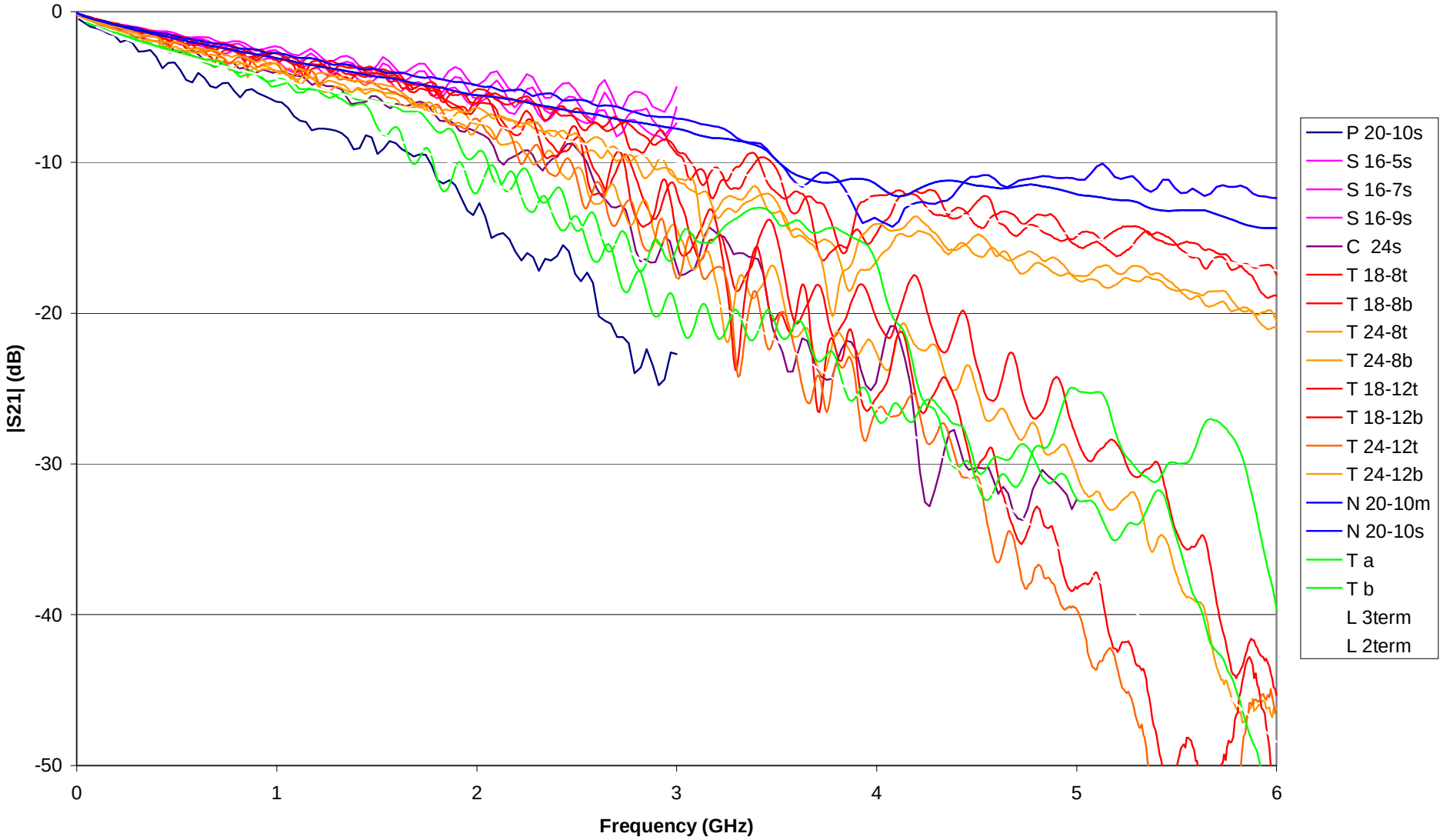
Compliance Channel Status

Data Contributed by:

Cisco	Intel
Motorola	National
PMC-Sierra	Sun
TI	Tyco

Help also provide by many other companies

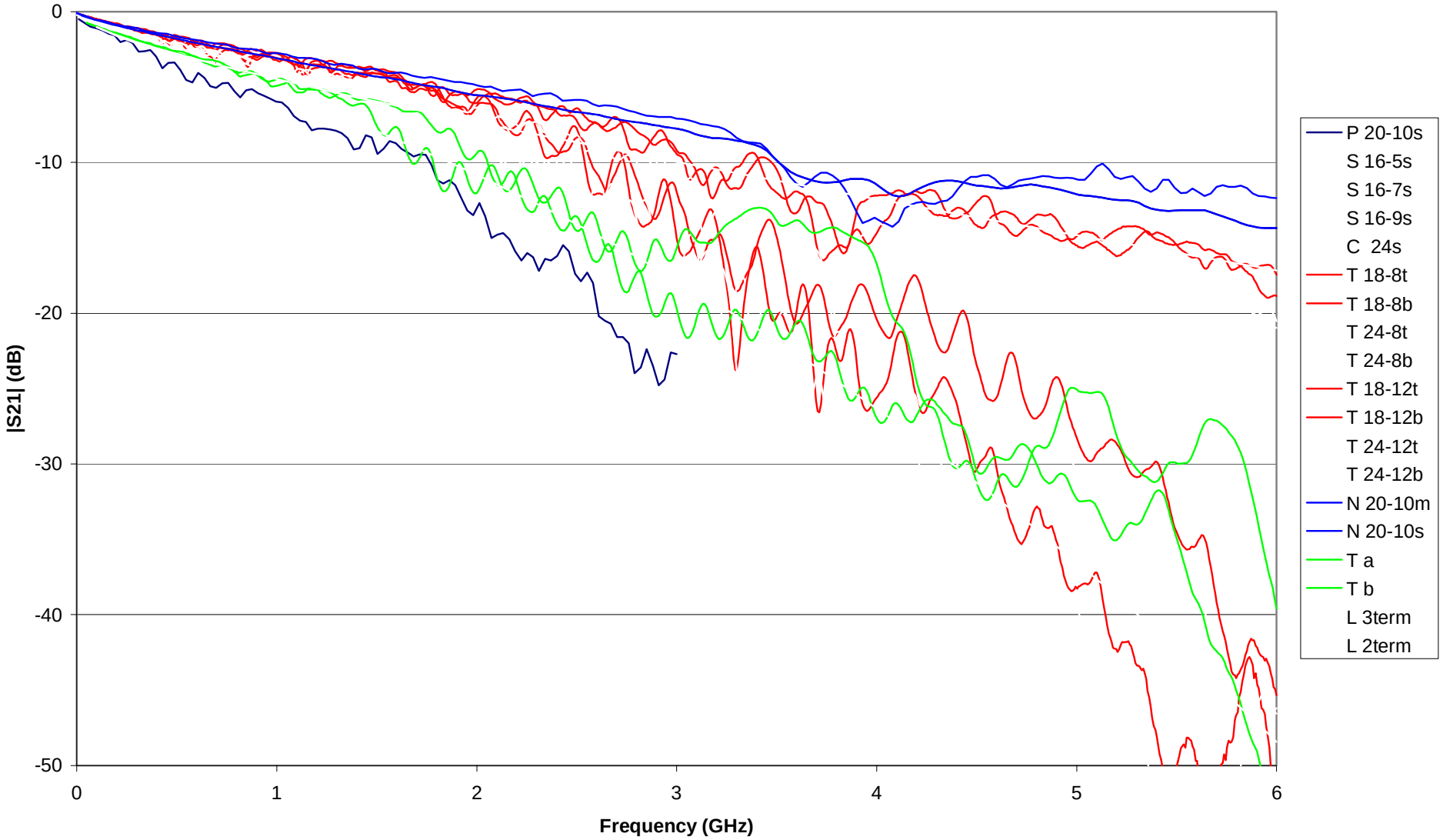
Overlay of All S21 Data



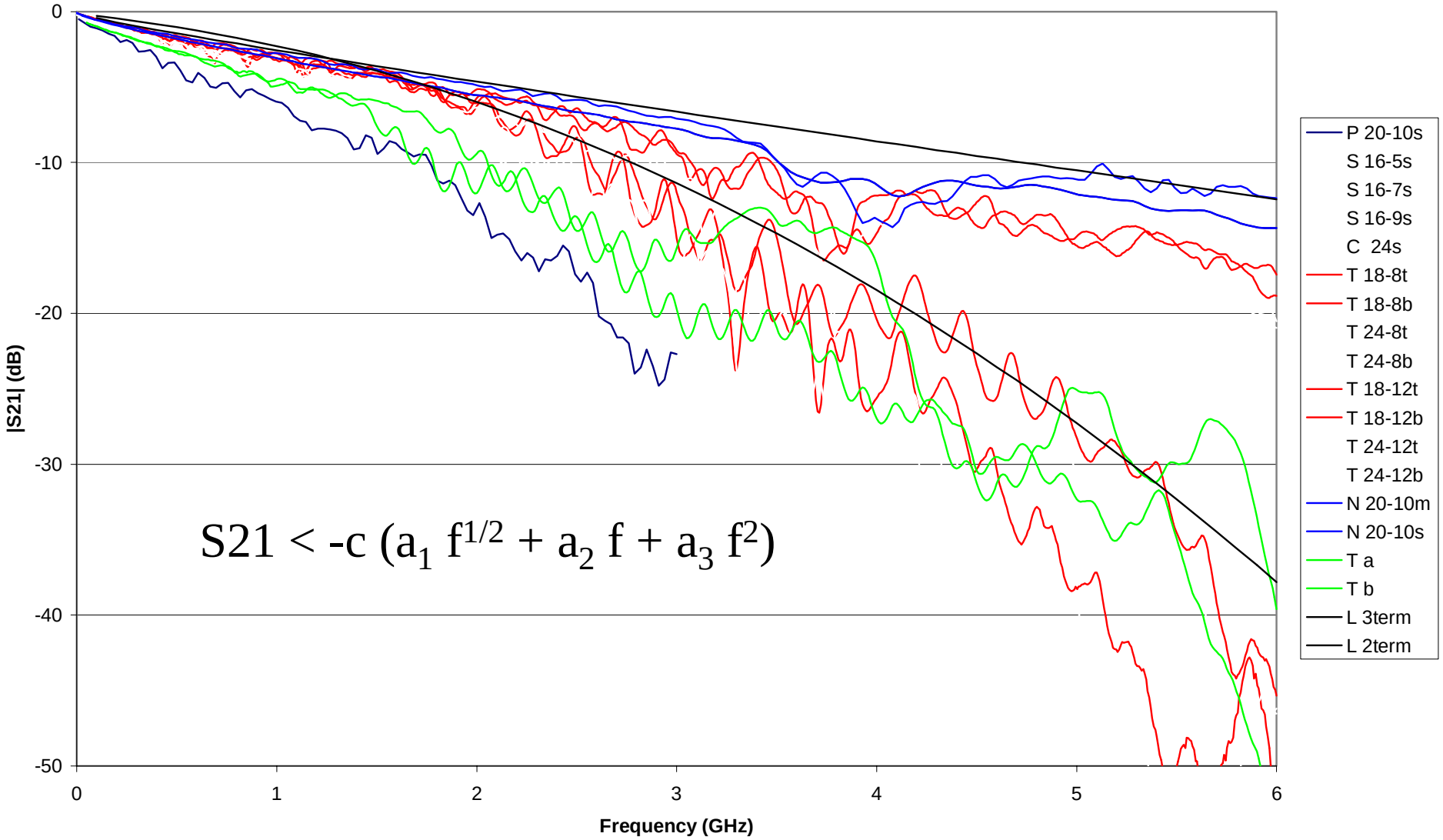
Prototype Characteristics

- Cisco — 24” with connectors
- National — 20” stripline and microstrip
- PMC-Sierra — 20” with connectors
- TI — 22” with connectors
- Tyco — 18” and 24” with connectors, various trace widths and routing layers

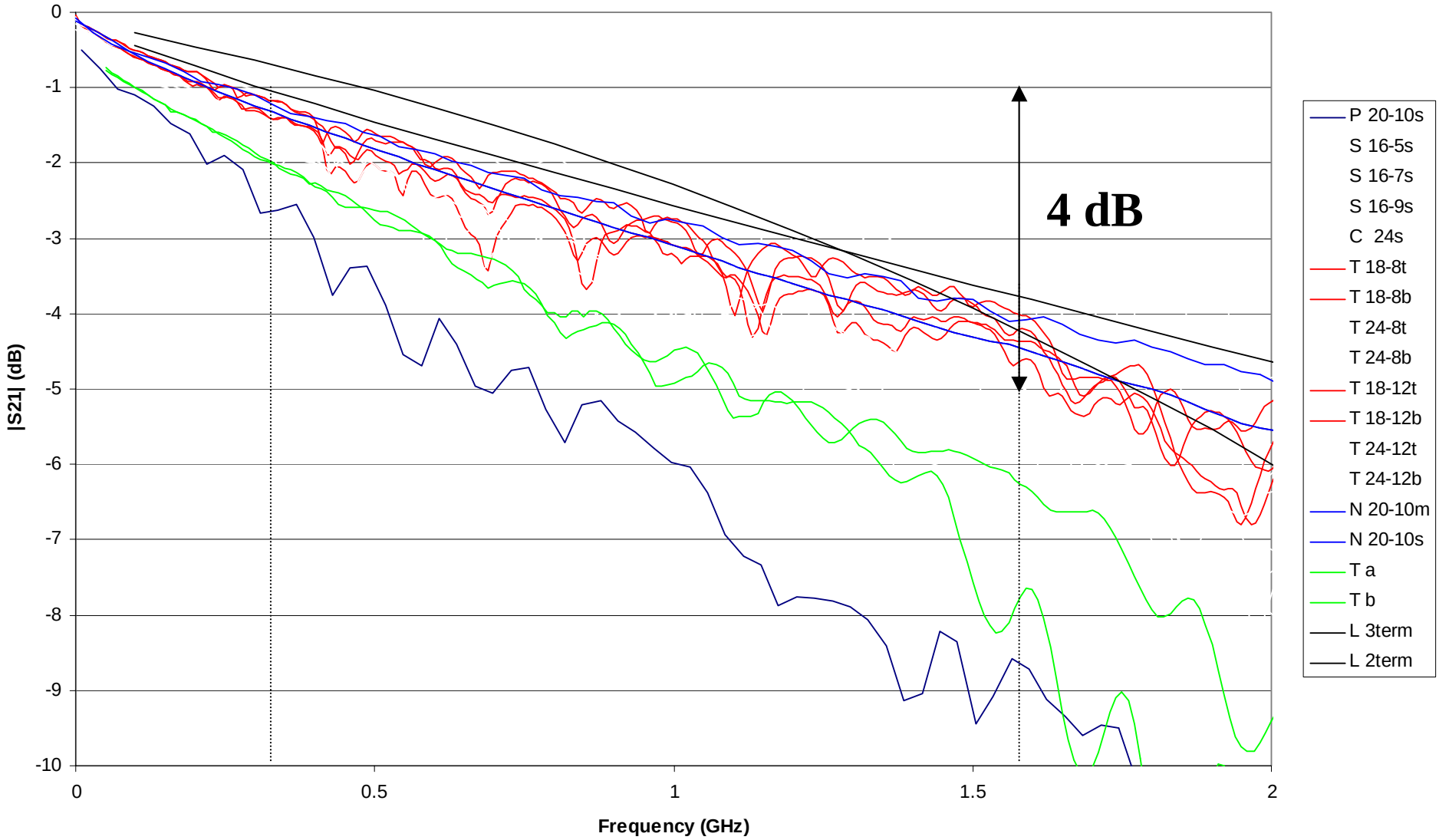
Overlay of All 18-22” Data



Compliance Limit



ISI Limit


0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
|S21| (dB)
0
0.5
1
1.5
2
Frequency (GHz)
4 dB
P 20-10s
S 16-5s
S 16-7s
S 16-9s
C 24s
T 18-8t
T 18-8b
T 24-8t
T 24-8b
T 18-12t
T 18-12b
T 24-12t
T 24-12b
N 20-10m
N 20-10s
T a
T b
L 3term
L 2term

Work Done

- Determined |S21| upper limit
  - Consensus on mid-range HF loss. Dawson to generate equation and plot. (24-2)
  - Need to determine upper frequency limit
    - Anthony to do sim's justifying > 4.7G
    - Oscar to provide theoretical argument for 3.125G
    - Boaz to simulate
    - Done: Anthony's sim's support 3.125G limit. Not yet approved.
- Determined ISI limit
  - >4 dB between 312.5 MHz to 1.56 GHz (Unan.)
    - Confirms content of D2.0

Gather delay data – THIS MONTH

- Determine delay limit – FOR D2.1 (Feb)
  - Done
    - Placeholder: 80 ps p-p to 1.56 GHz at <3% aperture
    - Needs further verification