

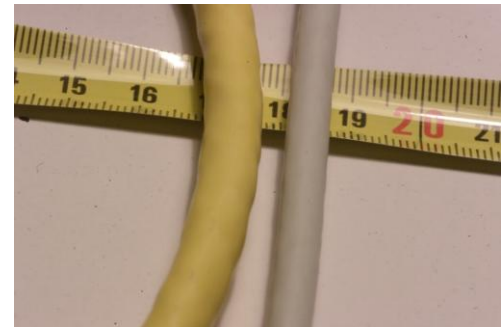
ISO/IEC PDTR 11801-99-1

Channel II measurements
IEEE P802.3bq 40GBASE-T Task Force
December 2013

- Channel II measurements
 - Dieter Schicketanz, consultant
 - University of Science, Reutlingen
 - Yvan Engels
 - Leoni - Kerpen

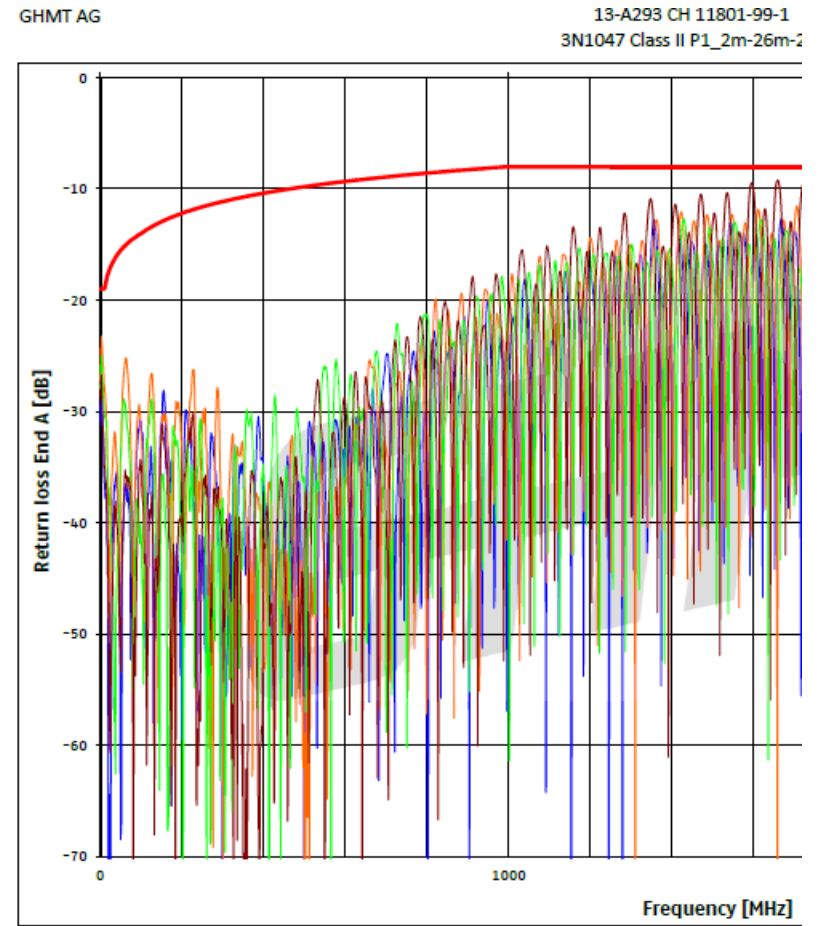
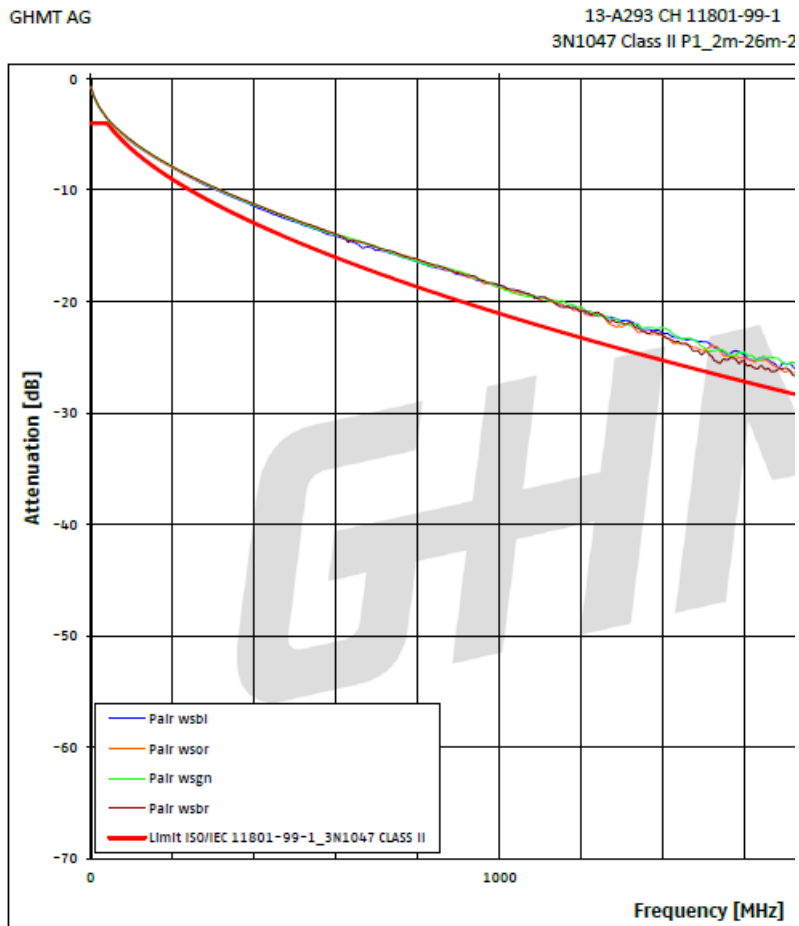
Set up

- Measurement of a 30 m channel
 - 2m flexible cord; 5,8 mm diameter
 - IEC 61076-3-104 (Tera) cat7_A connection
 - 26m horizontal cable; 8,2 mm diameter
 - IEC 61076-3-104 cat7_A connection
 - 2m flexible cord



- Limit lines of Proposed Draft Technical Report as of November 2013
- Touchstone file will be delivered for the January meeting
- Shorter channel measurements will be delivered for the January meeting

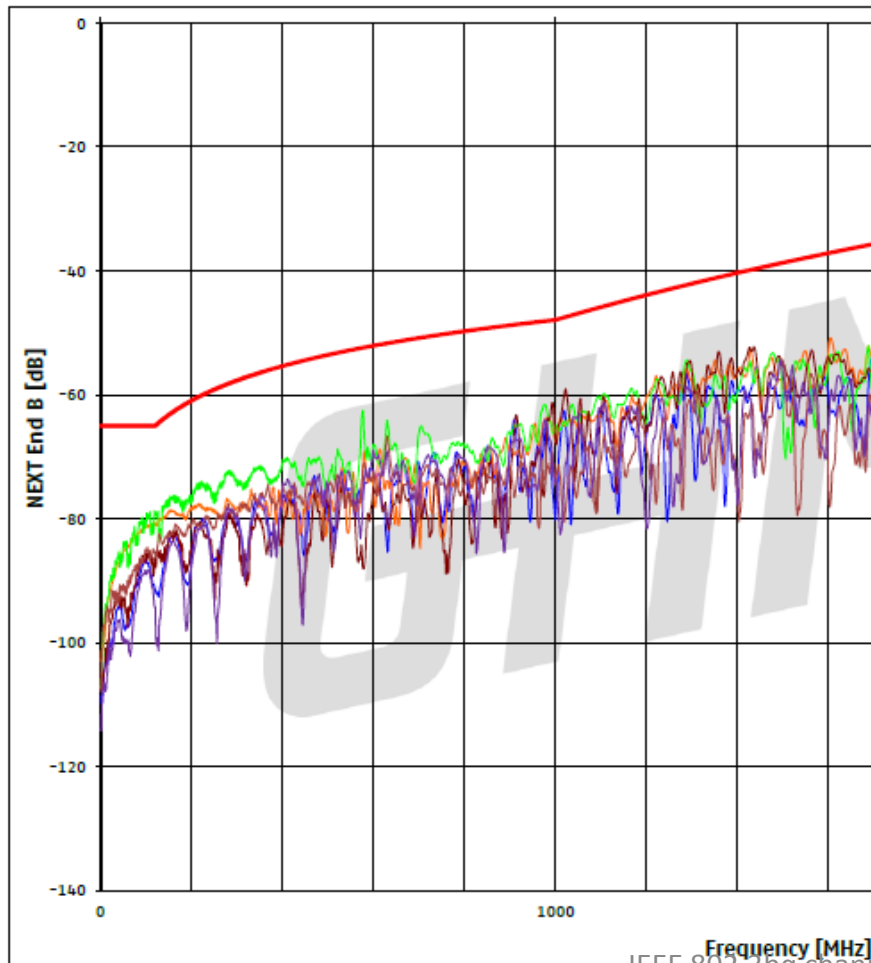
30m channel insertion loss and return loss



30m Channel NEXT and ACR-F

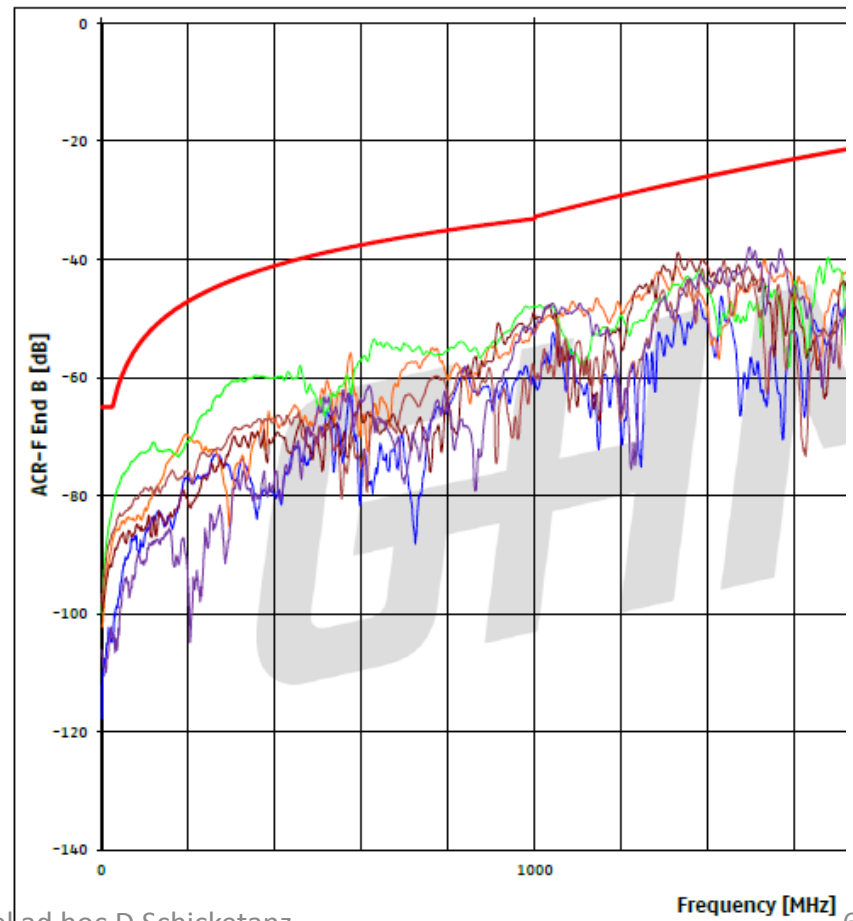
GHMT AG

13-A293 CH 11801-99-1
3N1047 Class II P1_2m-26m-

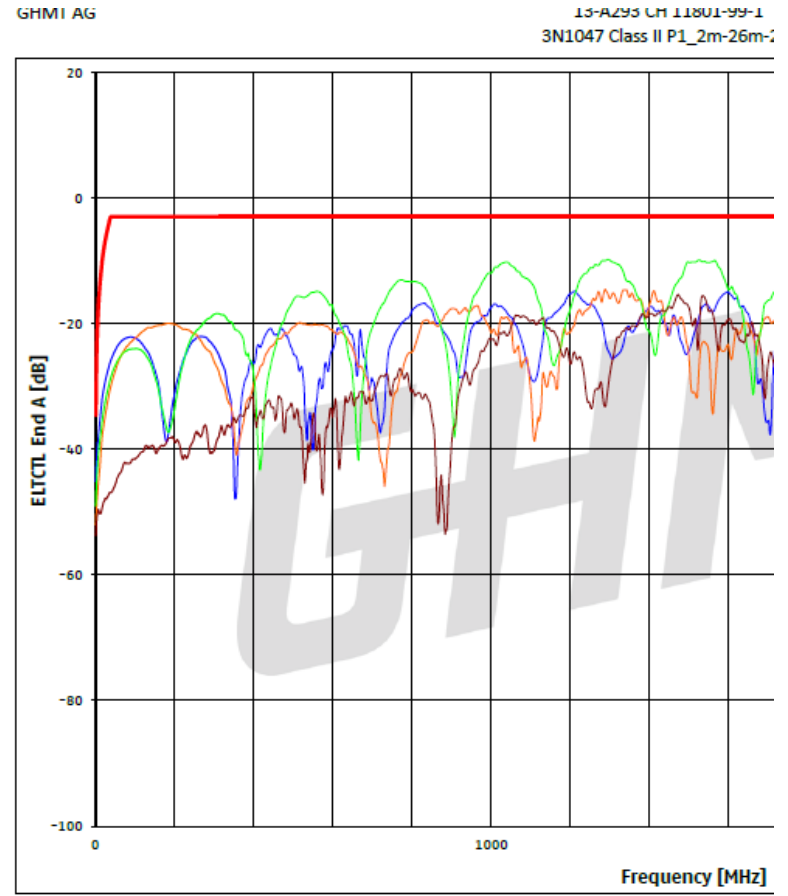
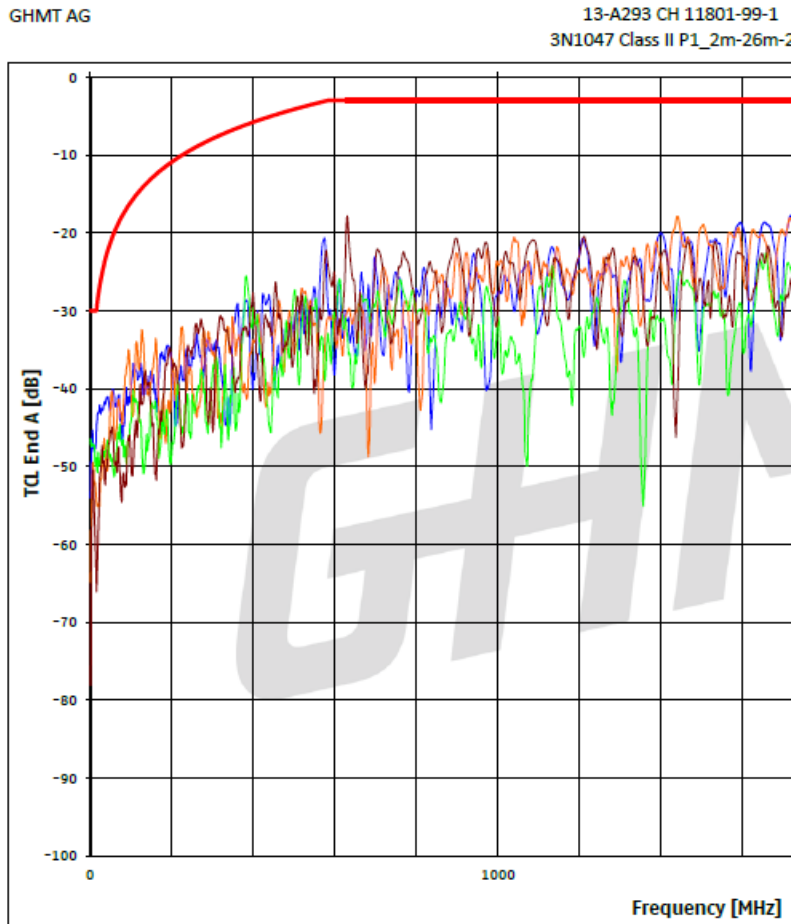


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3N1047 Class II P1_2m-26m-2



30m Channel TCL and ELTCTL



Conclusion

These measurements will be combined with the other files to see the influence of MDI and PCB.

The PCB files need to be adapted because they do not exhibit 1 MHz Frequency steps but 10 MHz steps.

Question: which is the S parameter numbering convention to be used?