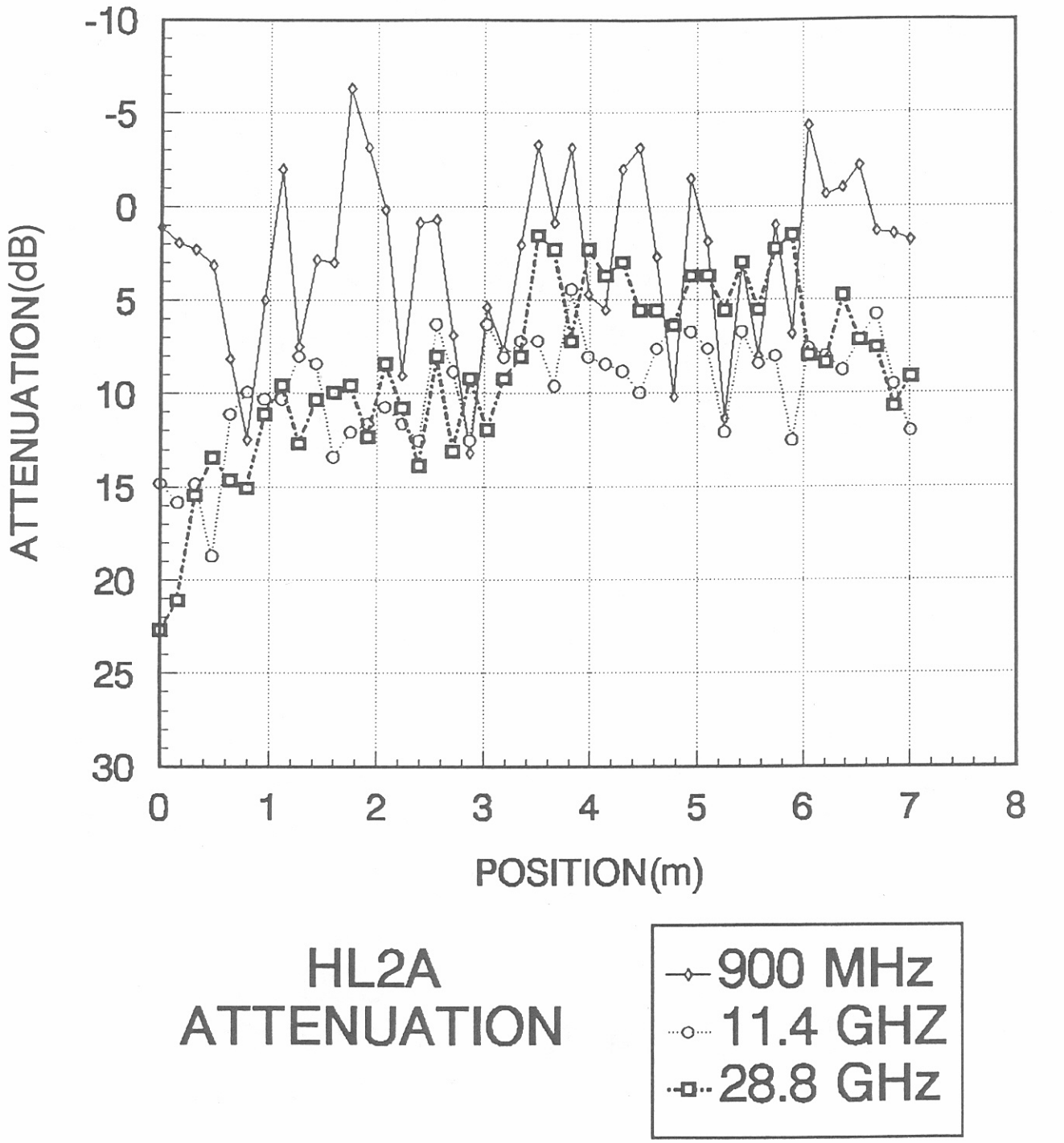

Figure A-41. Penetration loss for private residence path HL2A.

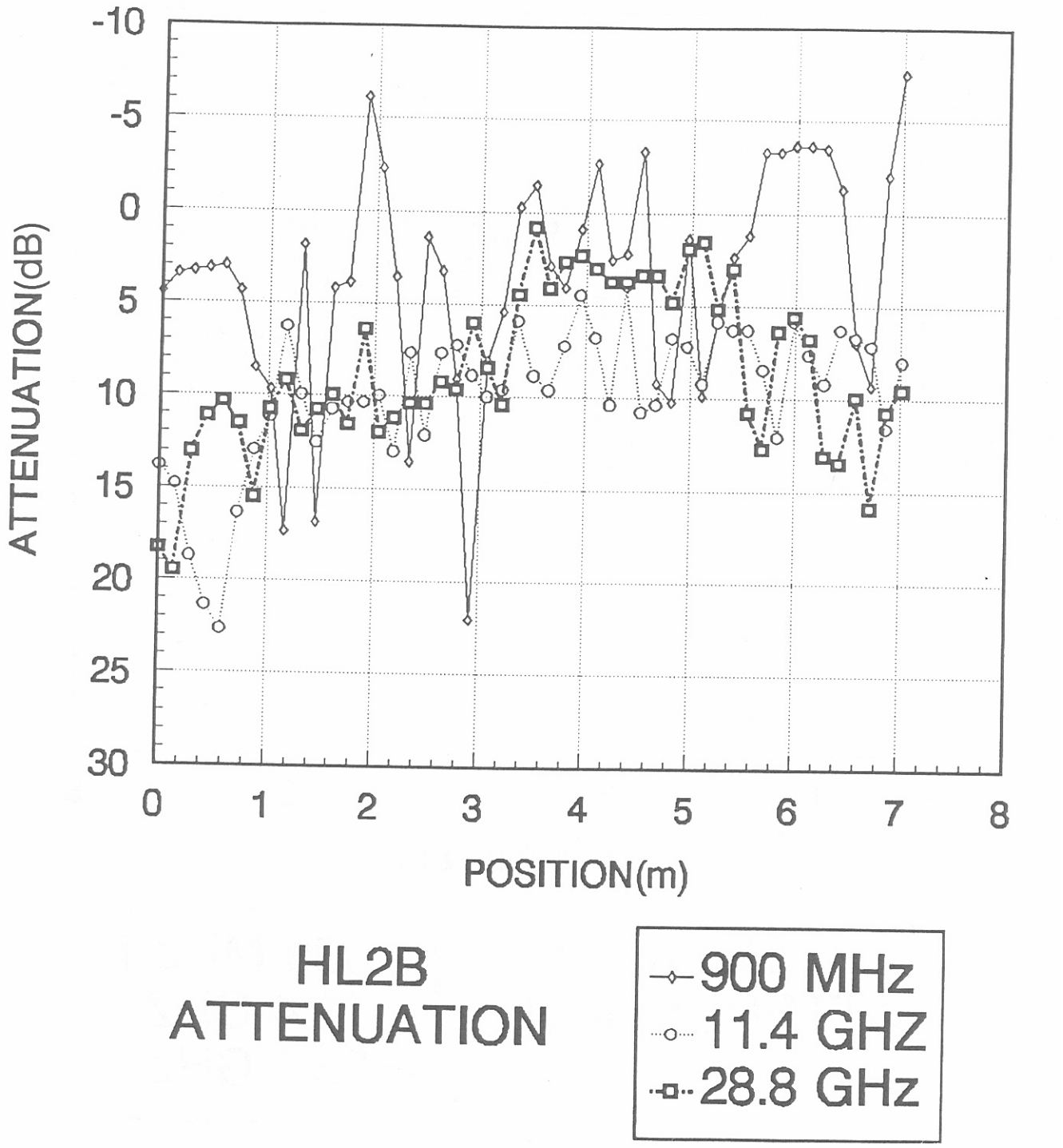

Figure A-42. Penetration loss for private residence path HL2B.

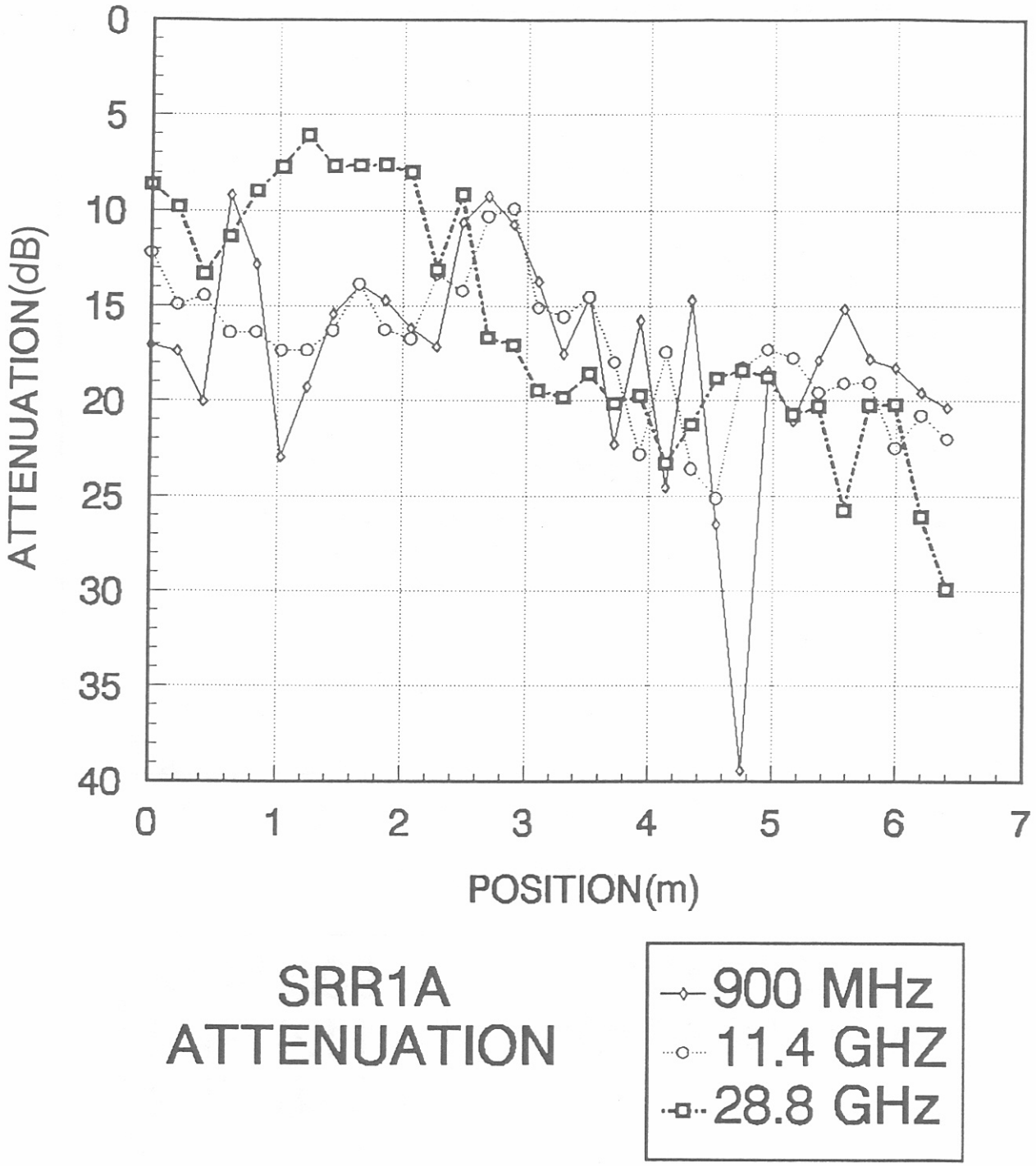

Figure A-43. Penetration loss for storeroom path SRR1A.

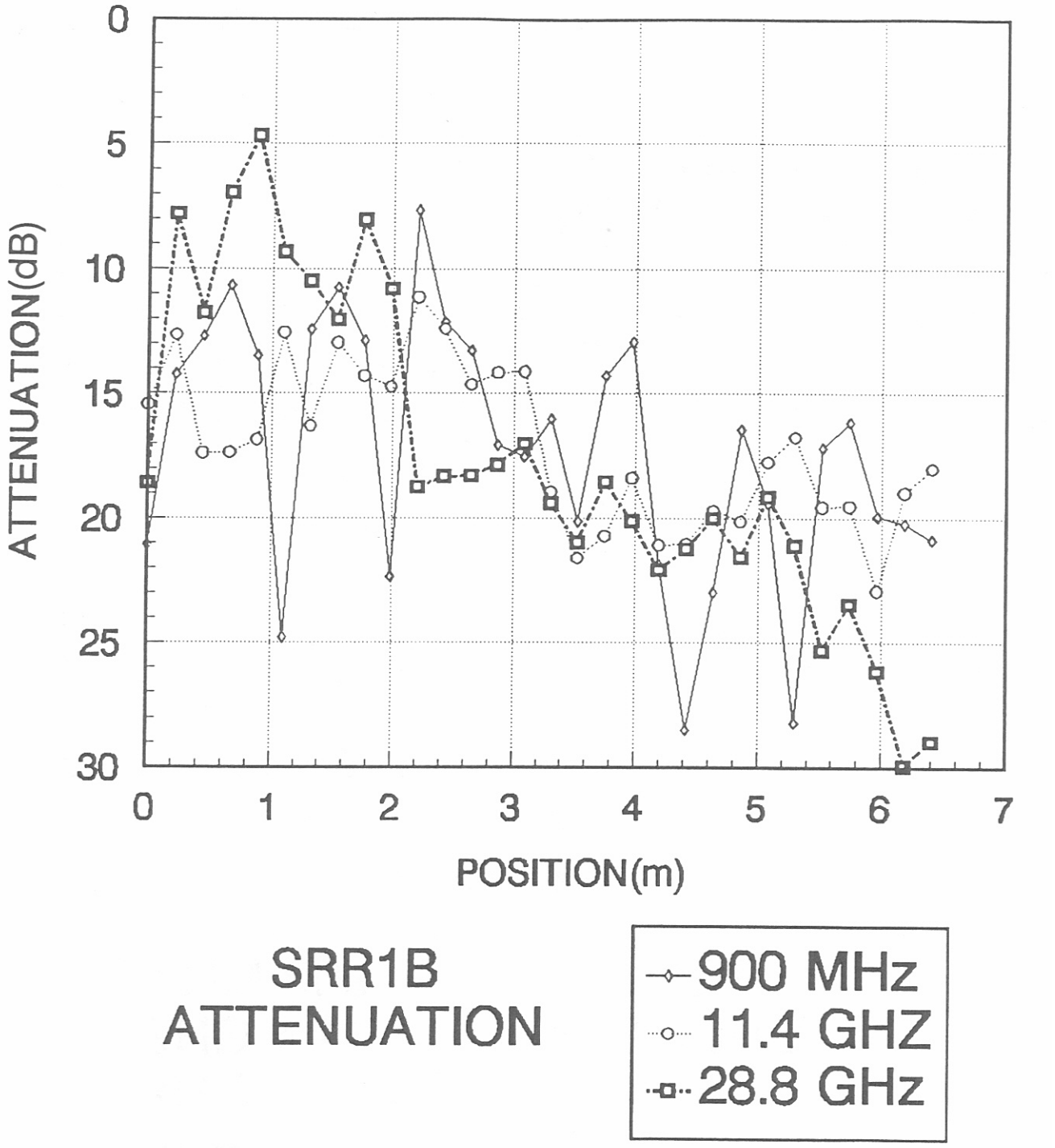

Figure A-44. Penetration loss for storeroom path SRR1B.

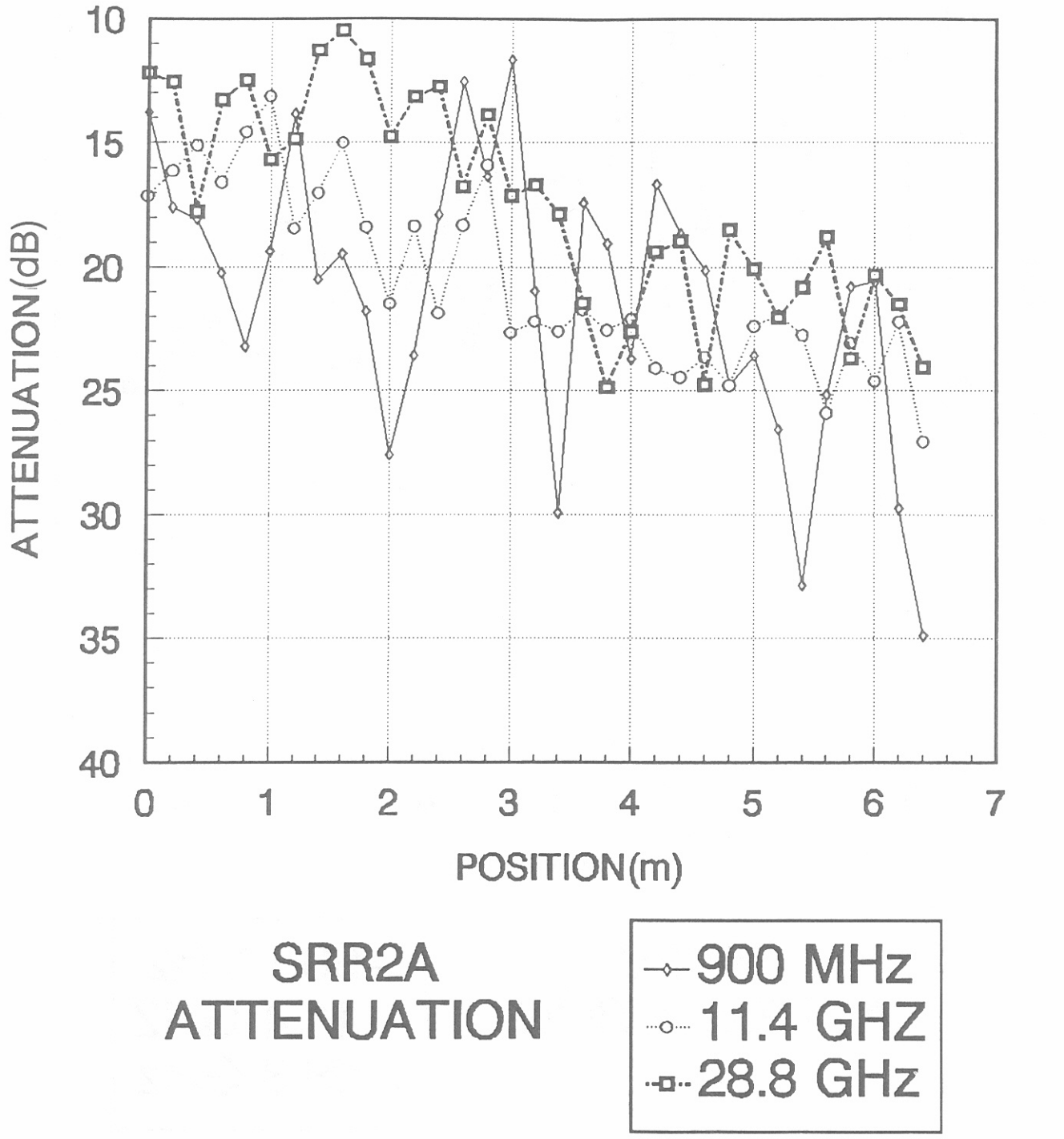

Figure A-45. Penetration loss for storeroom path SRR2A.

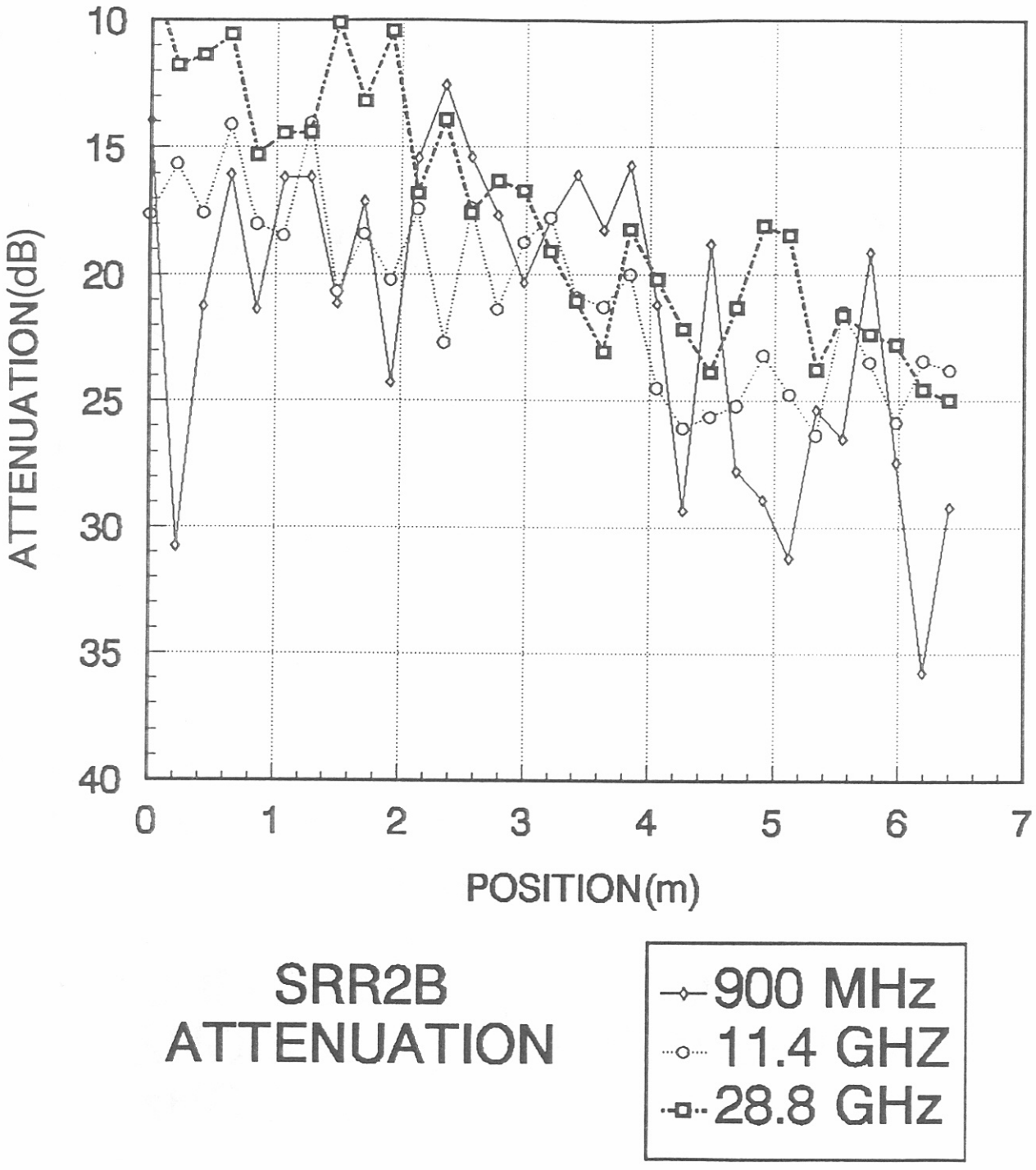

Figure A-46. Penetration loss for storeroom path SRR2B.

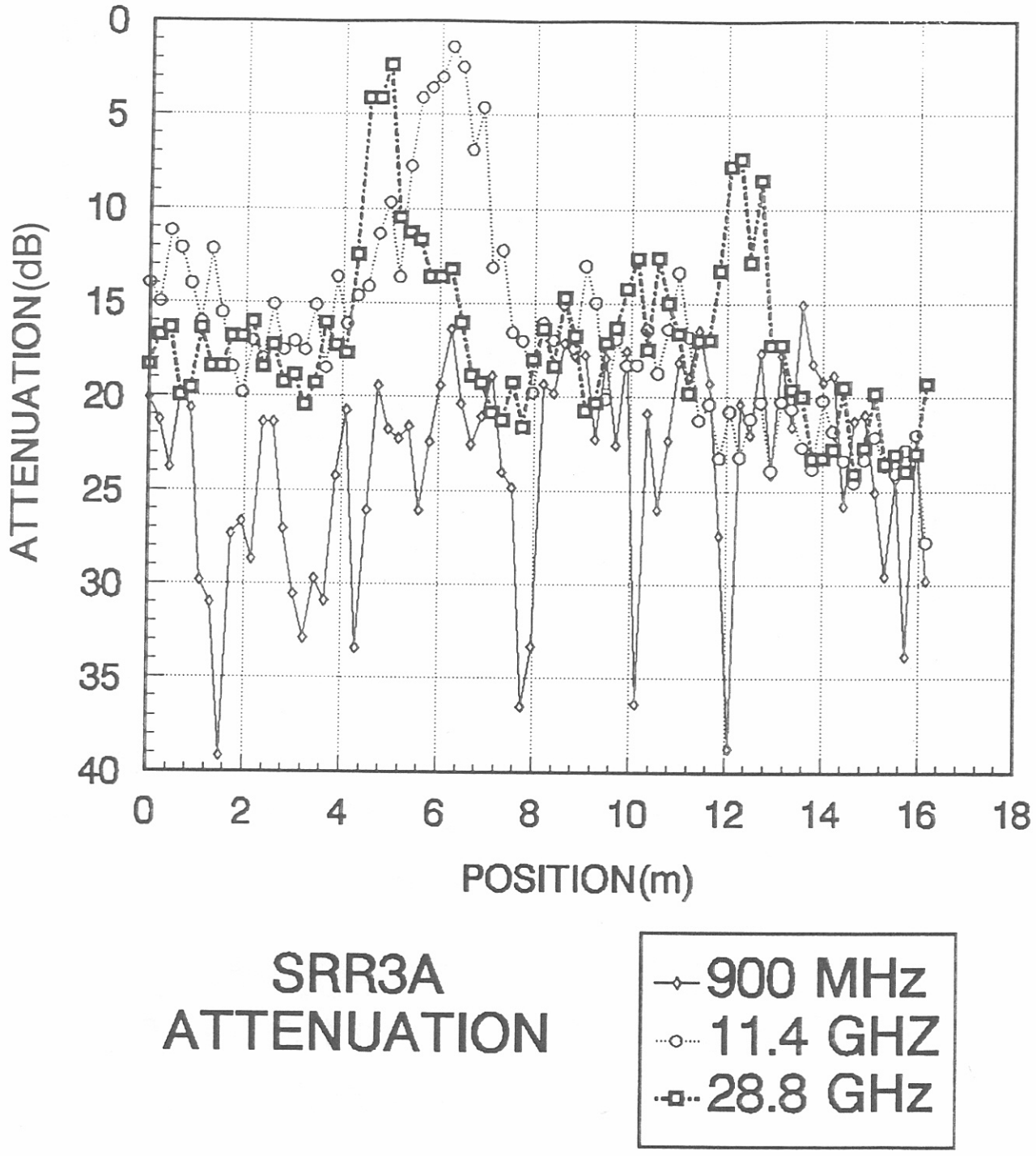

Figure A-47. Penetration loss for storeroom path SRR3A.

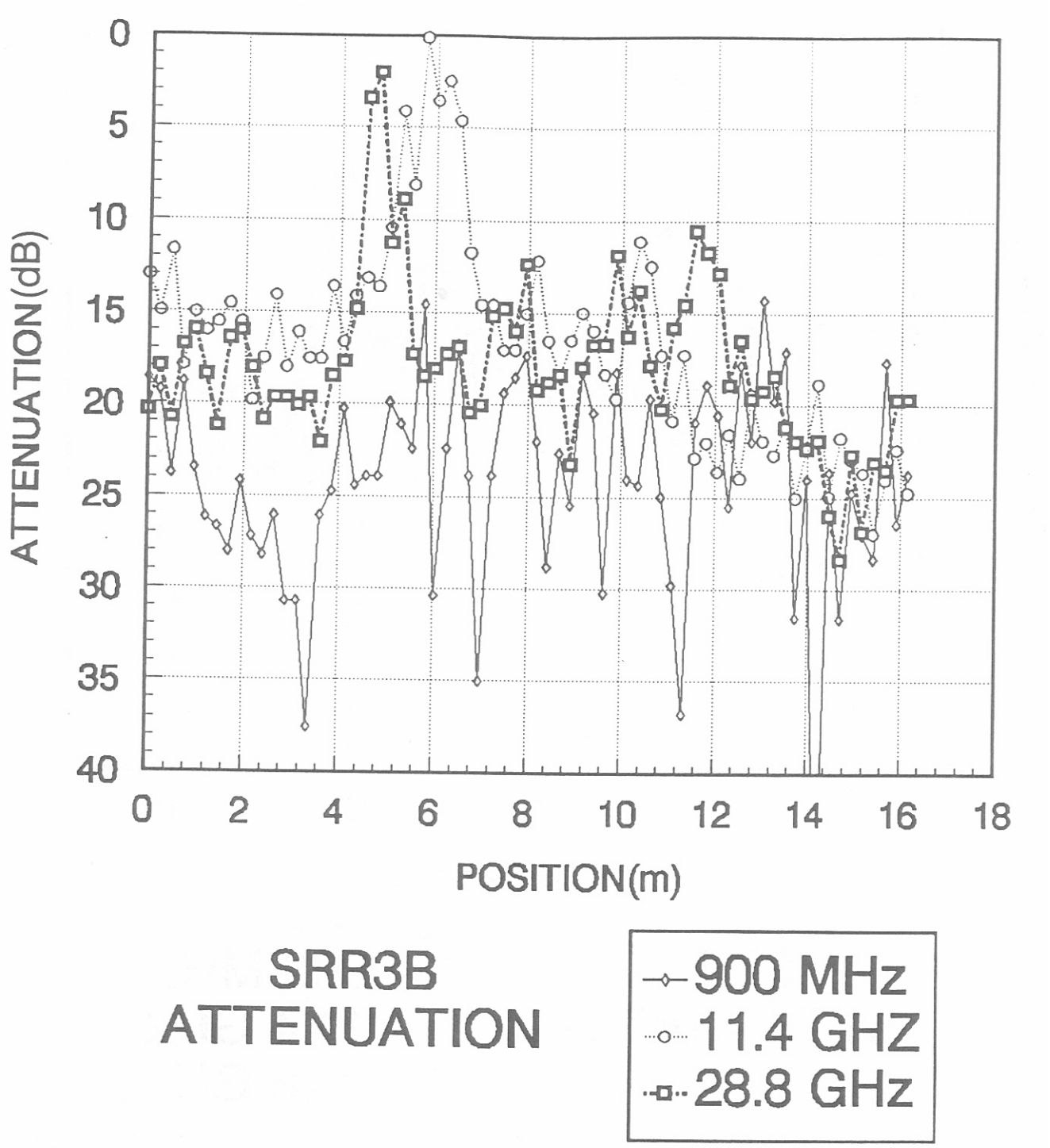

Figure A-48. Penetration loss for storeroom path SRR3B.

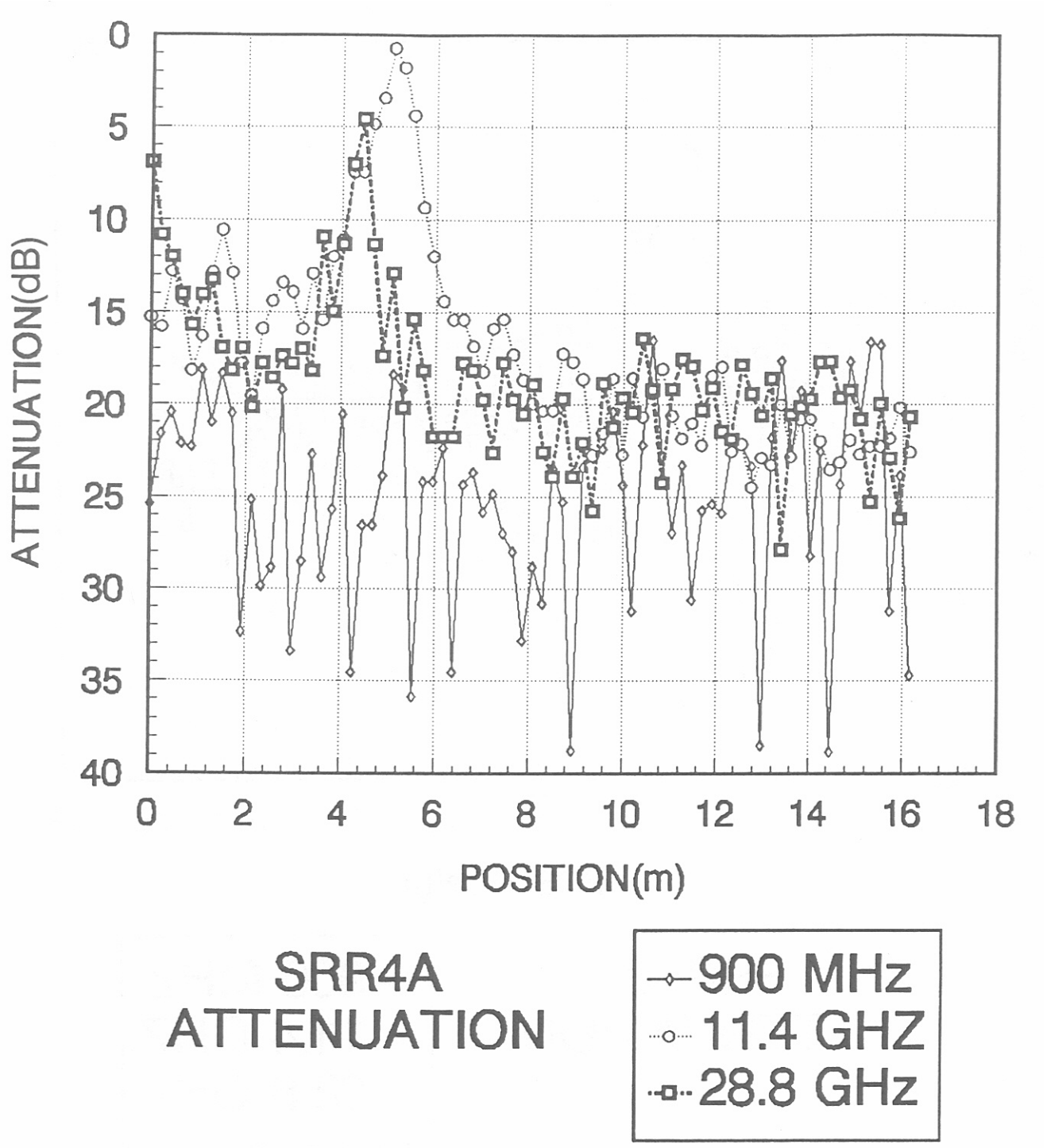

Figure A-49. Penetration loss for storeroom path SRR4A.

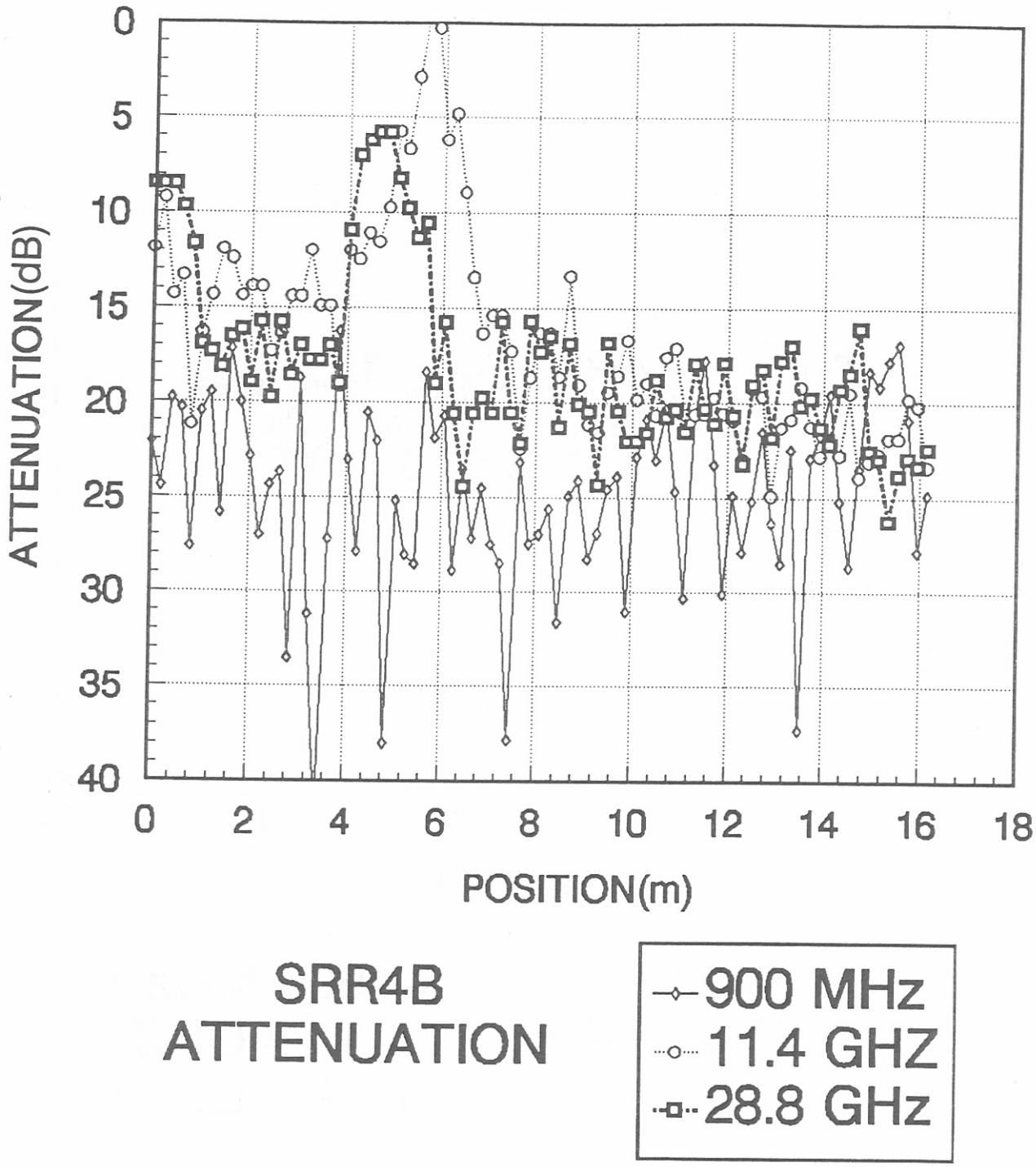

Figure A-50. Penetration loss for storeroom path SRR4B.

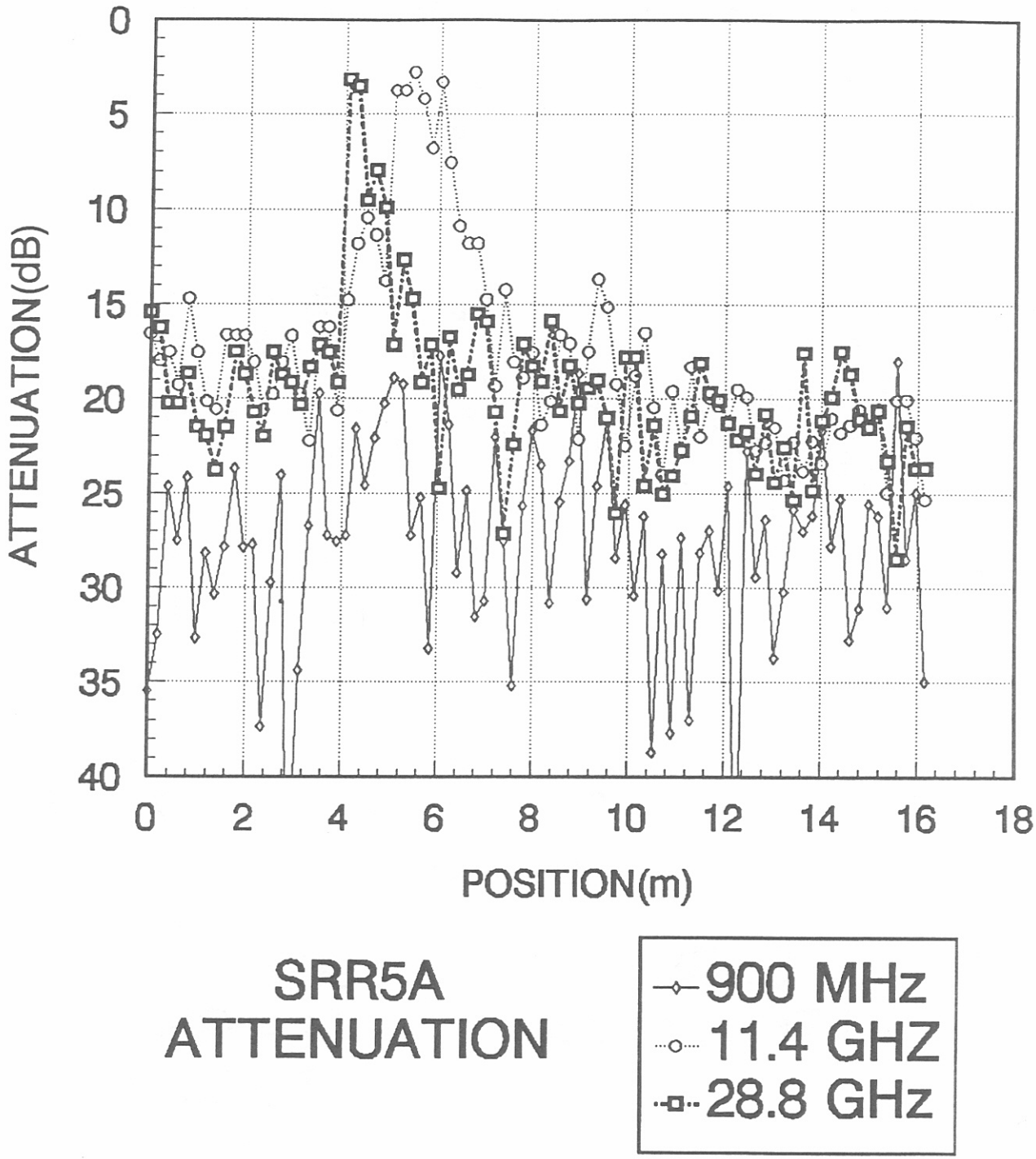

Figure A-51. Penetration loss for storeroom path SRR5A.

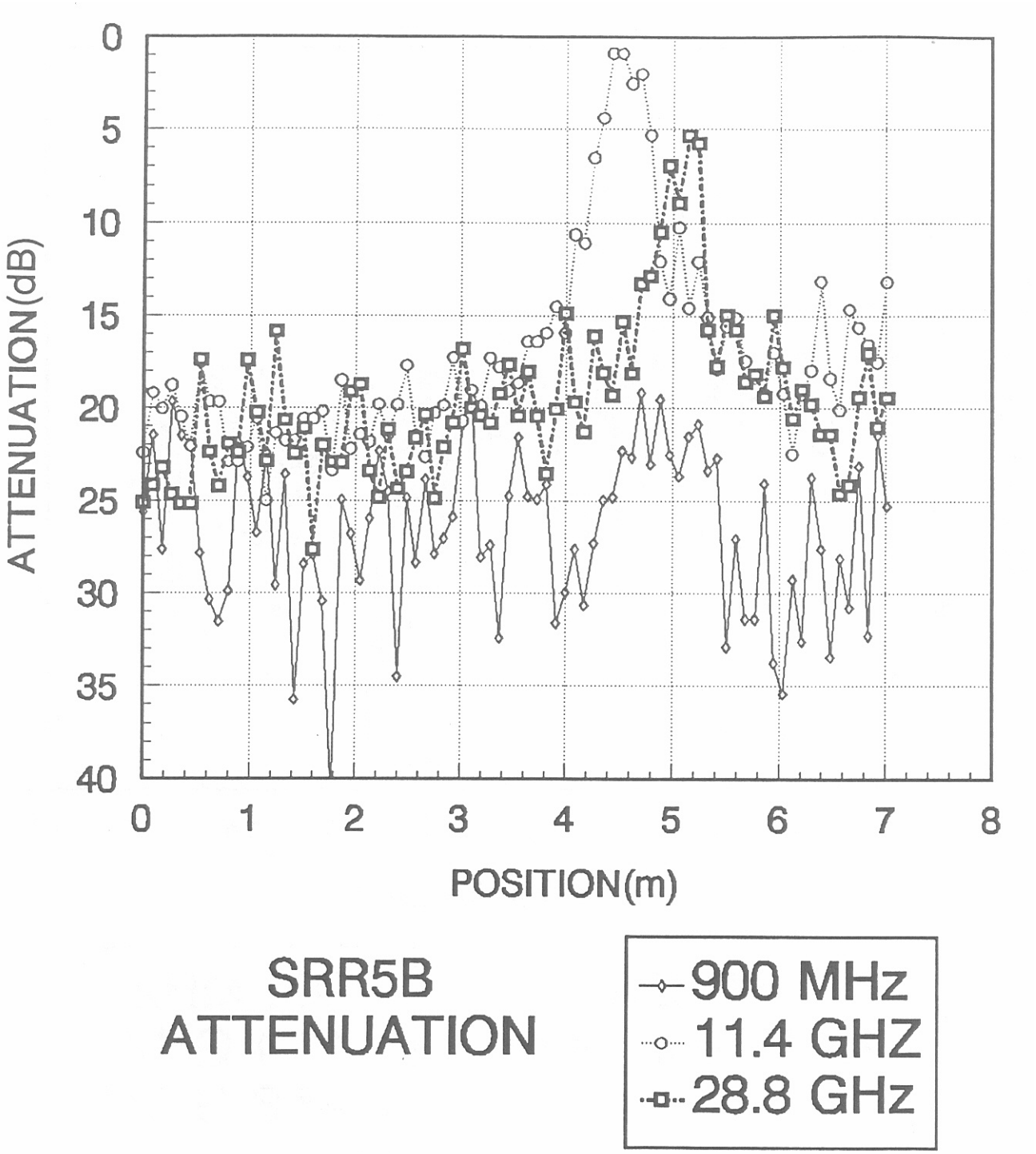

Figure A-52. Penetration loss for storeroom path SRR5B.

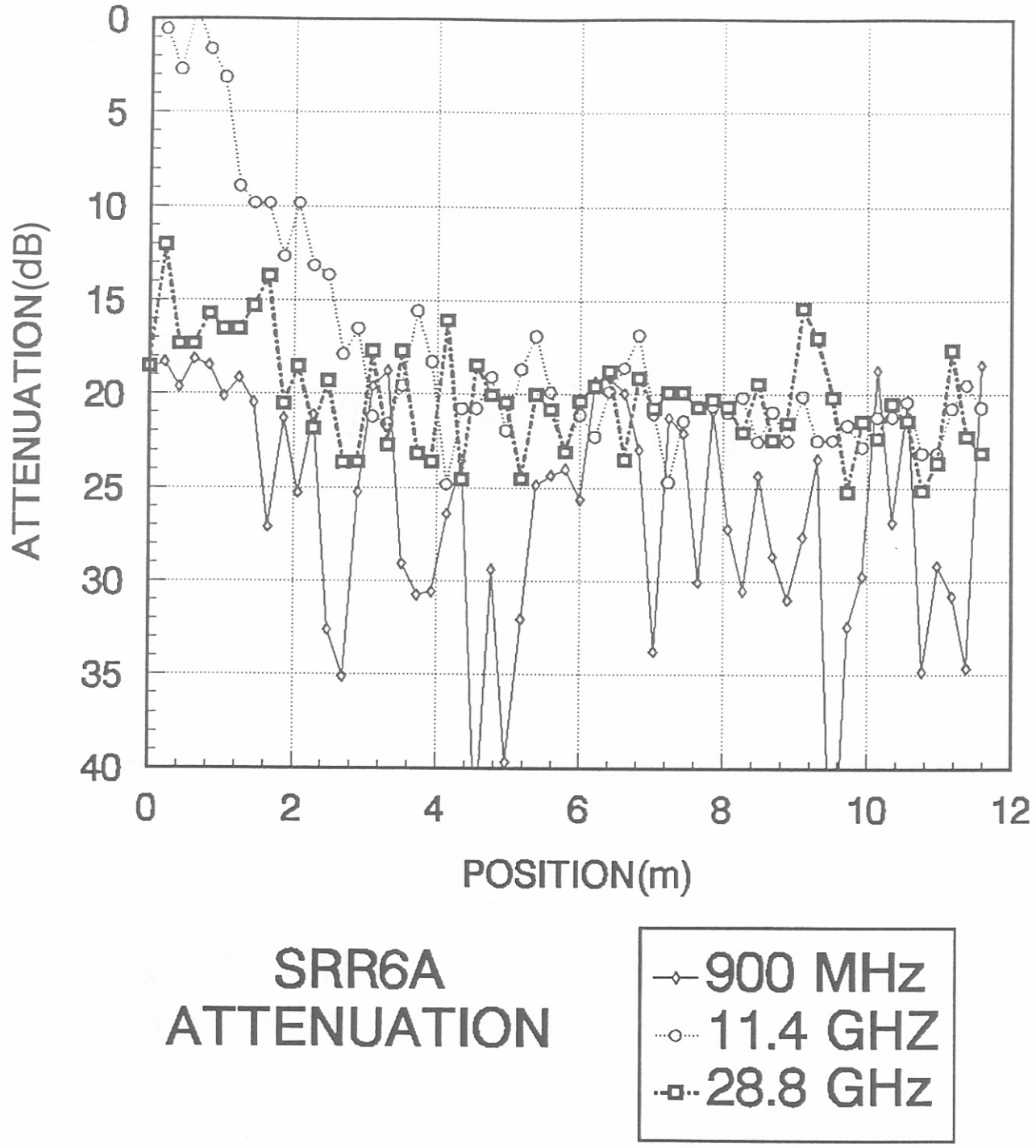

Figure A-53. Penetration loss for storeroom path SRR6A.

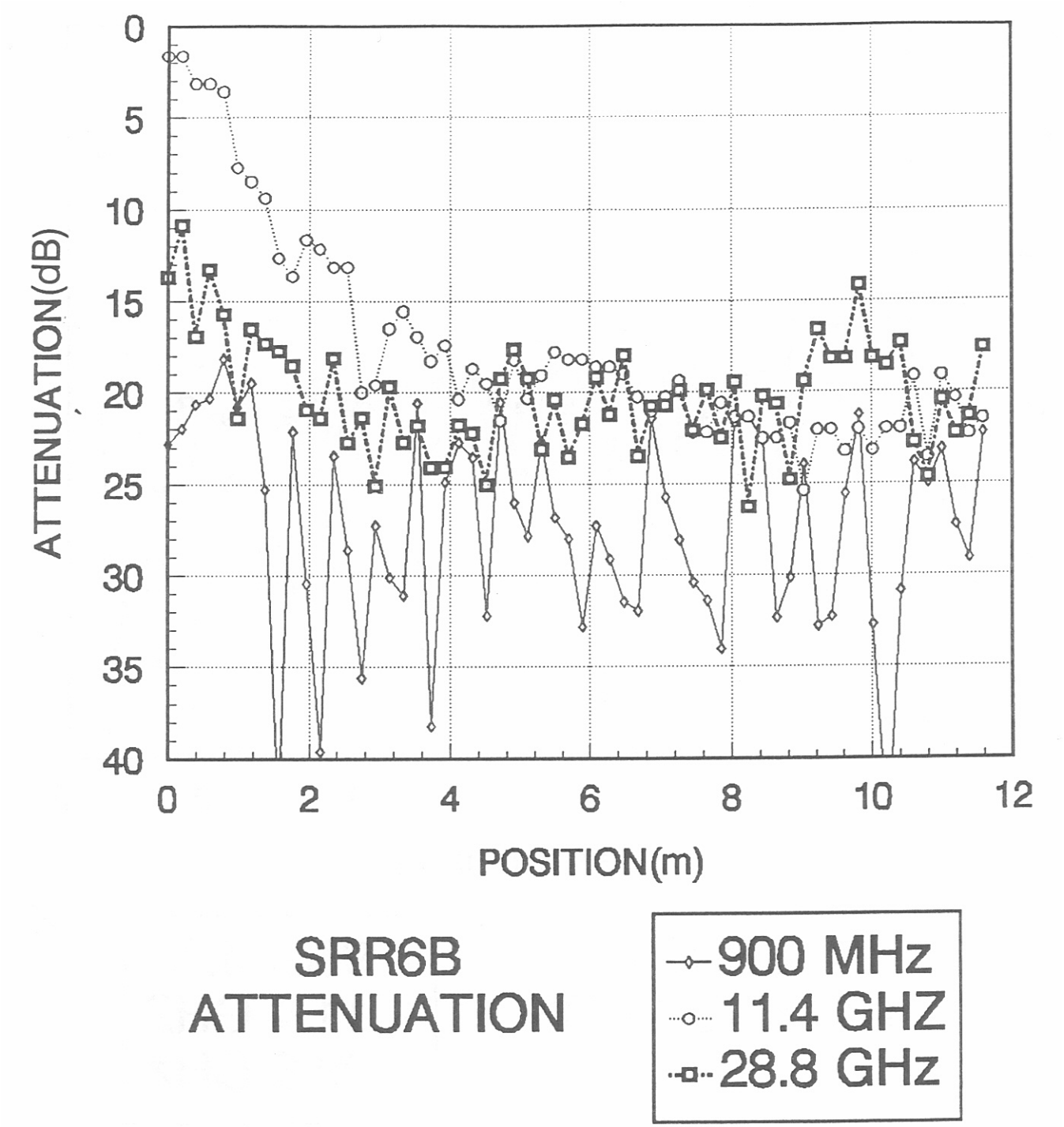

Figure A-54. Penetration loss for storeroom path SRR6B.

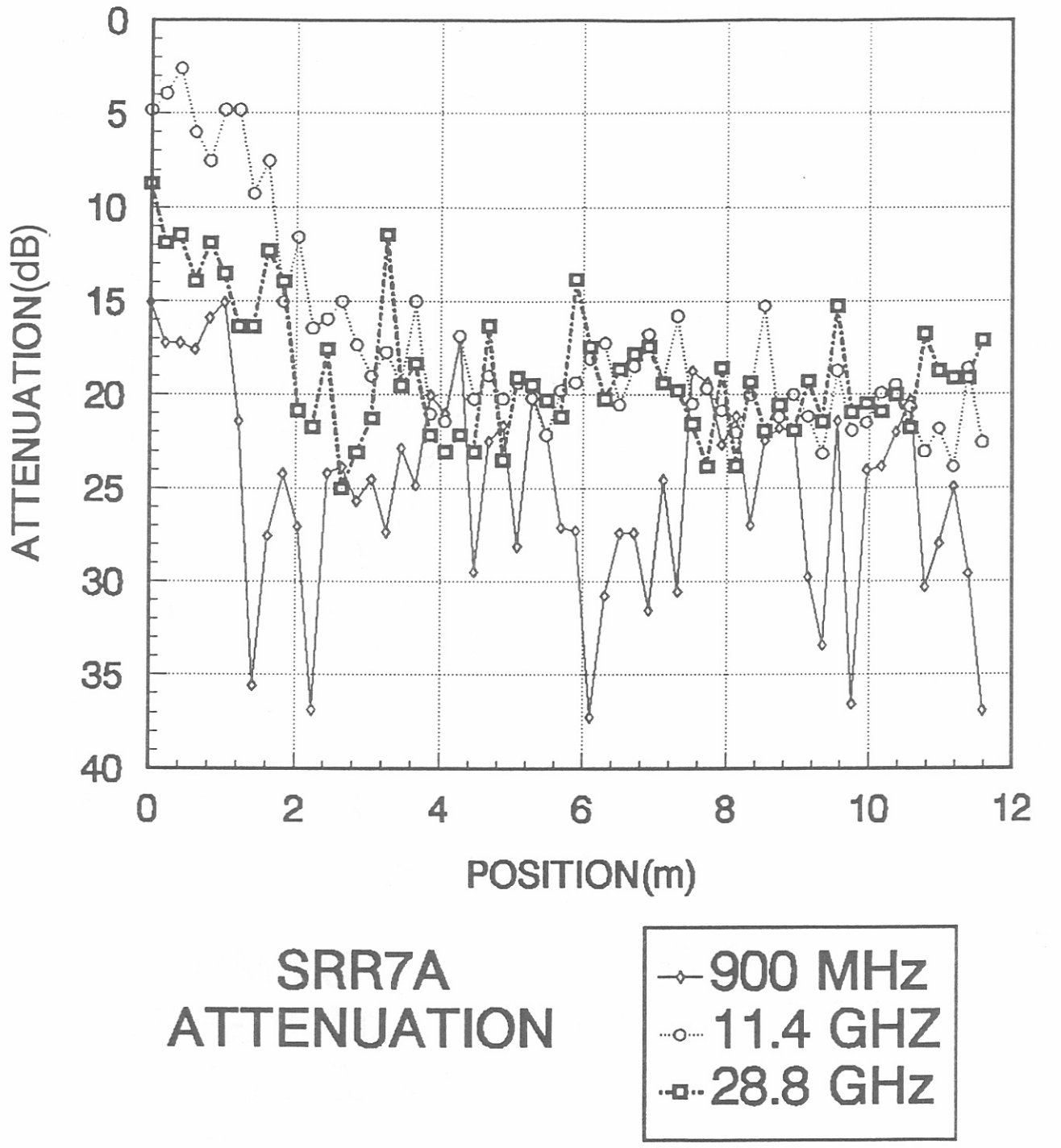

Figure A-55. Penetration loss for storeroom path SRR7A.

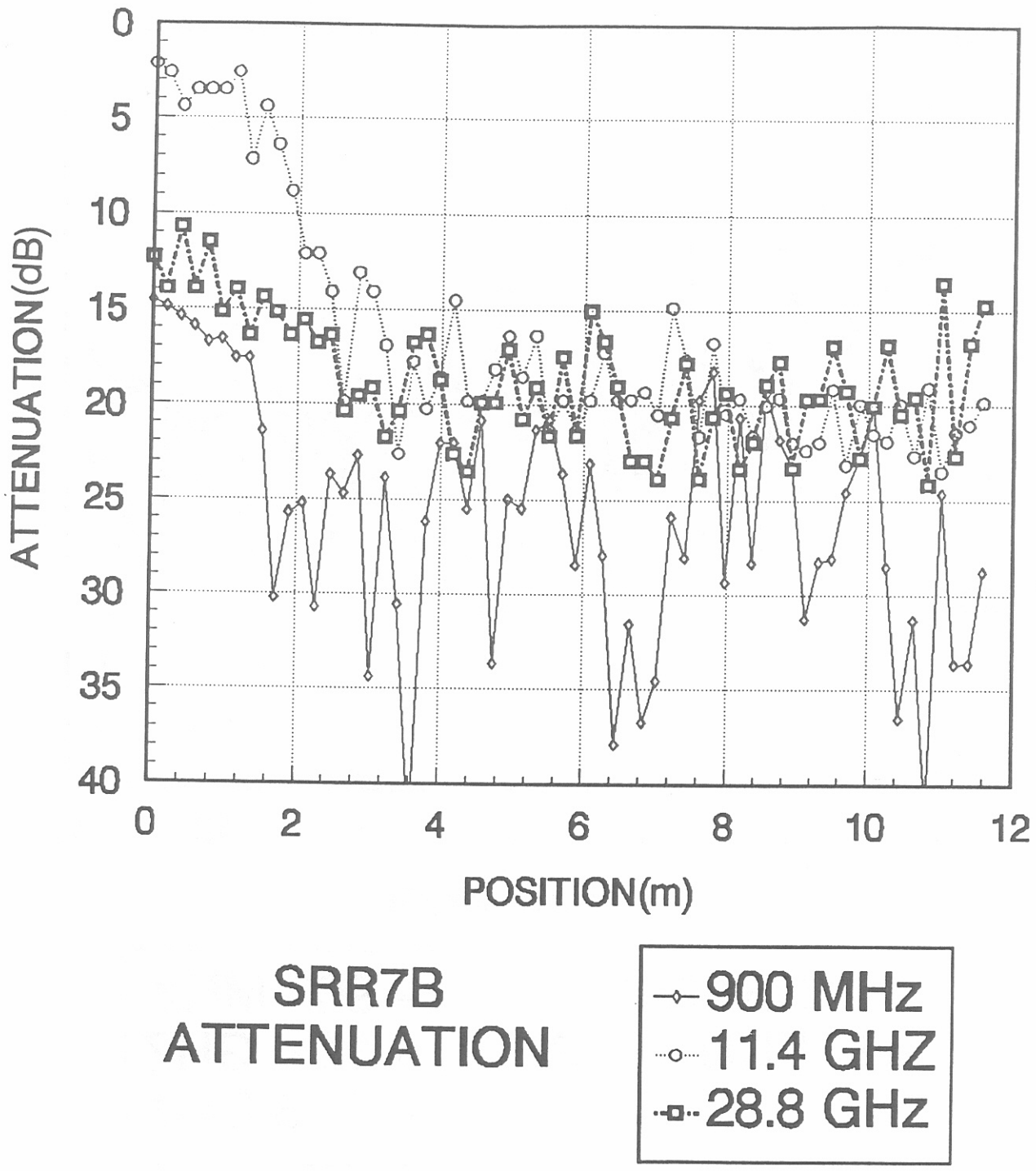

Figure A-56. Penetration loss for storeroom path SRR7B.

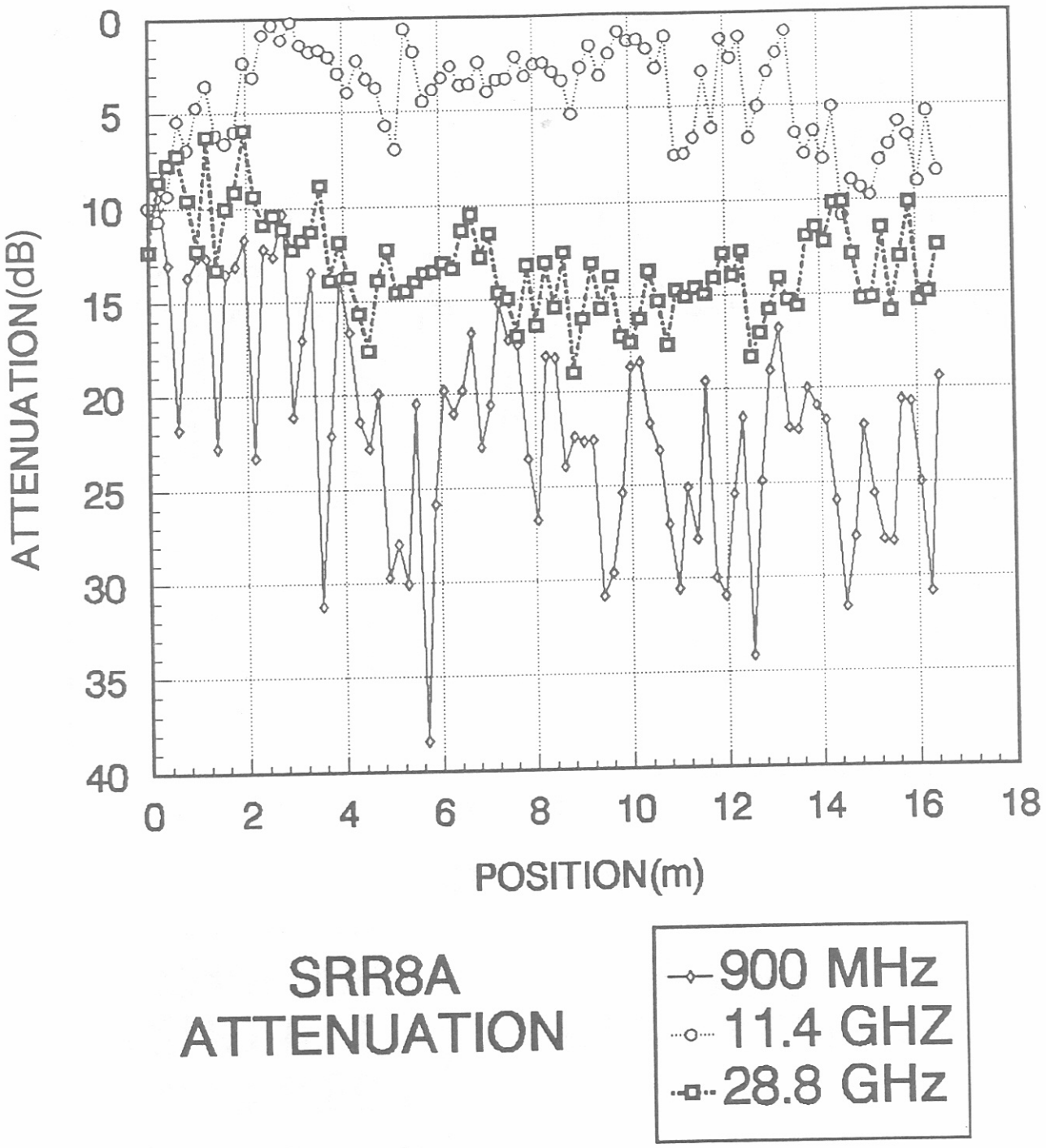

Figure A-57. Penetration loss for storeroom path SRR8A.

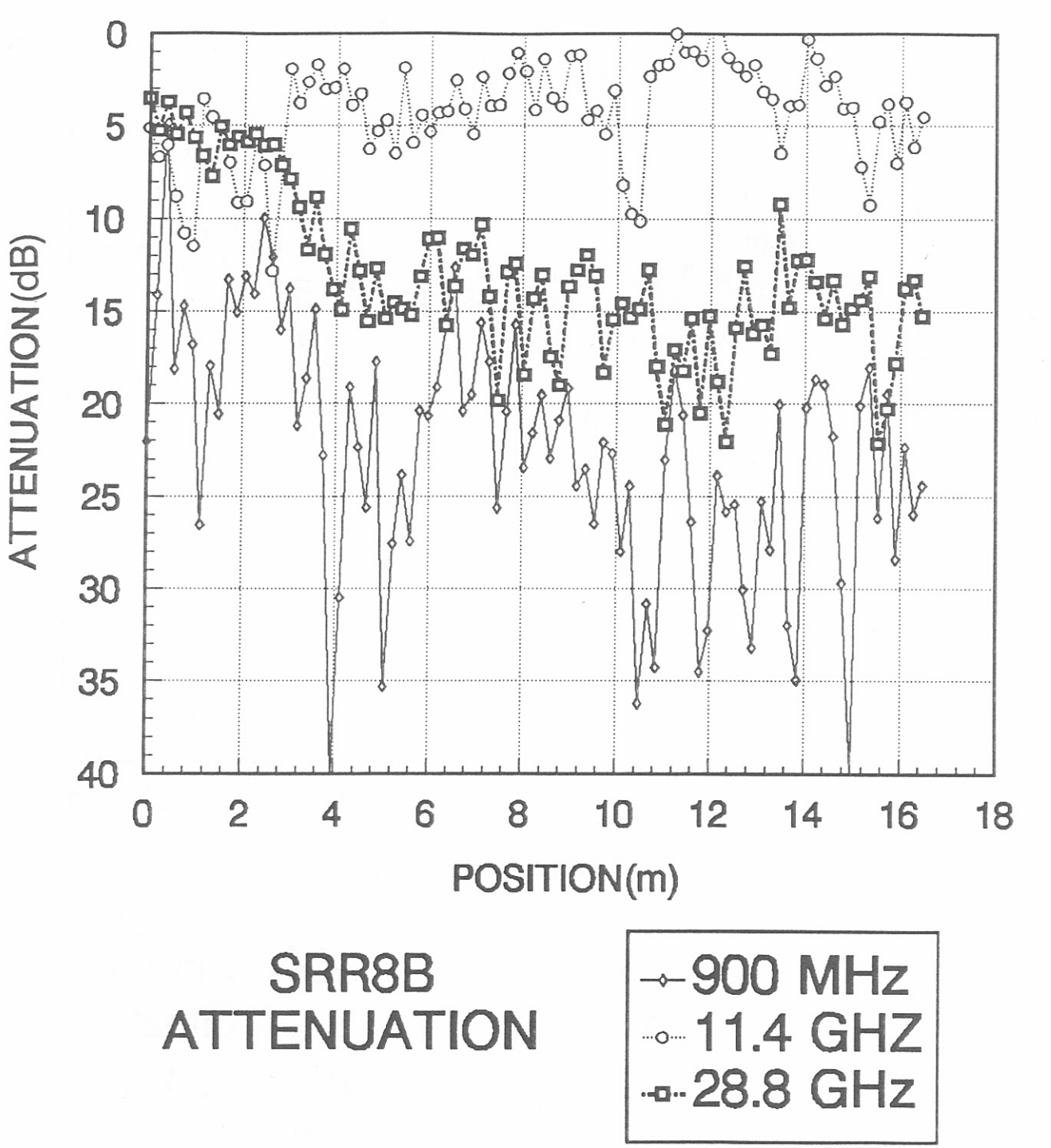

Figure A-58. Penetration loss for storeroom path SRR8B.

FORM **NTIA-29**
(4-80)

U.S. DEPARTMENT OF COMMERCE
NAT'L. TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION

BIBLIOGRAPHIC DATA SHEET

	1. PUBLICATION NO.	2. Gov't Accession No.	3. Recipient's Accession No.
	94-306		

4. TITLE AND SUBTITLE
Building Penetration and Loss Measurements at 900 MHz, 11.4 GHz, and 28.8 GHz.

5. Publication Date
May 1994

6. Performing Organization Code
NTIA/ITS

7. AUTHOR(S)

9. Project/Task/Work Unit No.

8. PERFORMING ORGANIZATION NAME AND ADDRESS
National Telecommunications and Information Administration
Institute for Telecommunication Sciences
325 Broadway
Boulder, CO. 80303

10. Contract/Grant No.

11. Sponsoring Organization Name and Address
National Telecommunications & Information Administration
Institute for Telecommunication Sciences
325 Broadway
Boulder, CO. 80303-3328

12. Type of Report and Period Covered

13.

14. SUPPLEMENTARY NOTES

15. ABSTRACT *(A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.)*

The feasibility of using radio frequencies in the super high frequency (SHF) band (3-30 GHz) for Personal Communications Services (PCS) in buildings depends on the multipath within the structure and the amount of attenuation experienced by the electromagnetic waves passing through the structures. This study measured these effects to obtain a quantitative estimate of the attenuation magnitude. This magnitude can then be used for link margin analysis to determine if personal communications at SHF is practical.

16. Key Words *(Alphabetical order, separated by semicolons)*

Building attenuation; Measurements; Penetration attenuation; Personal communications; PCS.

17. AVAILABILITY STATEMENT

☒ UNLIMITED.

☐ FOR OFFICIAL DISTRIBUTION.

18. Security Class. *(This report)*

20. Number of pages
101

19. Security Class. *(This page)*

21. Price:

*U.S. GOVERNMENT PRINTING OFFICE:1994-573-013/00013