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Referências Bibliográficas

[1] Relatório Técnico: "*Planejamento de Canais de TV Digital,* Centro de Pesquisa e Desenvolvimento em Telecomunicações CPqD", www.anatel.gov.br, setembro de 2003

[2] DVB Project, "Digital Video Broadcasting (DVB): Framing structure, channel coding and modulation for digital terrestrial television", *ETSl EN300744, v1.4.1*, 2001.

[3] Cañizares, P.; Torres, J.L.; Martines, J.A. "*VIDITER: Spanish experience on DTT*", 20th International Television Symposium, Montreux, Record Cable/Satellite/Terrestrial, pp. 219-224, 1997.

[4] Yasuo Takahshi. "*Seminar 8*: *Transmission Network & Hardware (Dibeg)*" , www.dibeg.org, Dezembro de 2005.

[5] Yamada, F.; Raunheitte, L.T.M.; Suks, F.; Bedcks, G.; Dantas, C.; Akamine, C. "*Digital Signal Disturbed by Impulsive Noise in Signal of Digital TV* " , IEEE Braodcasting Magazine, 2004.

[6] Parviainen, H.; Kyösti, P.; Zhao, X.; Himmanen, H.; Talmola, P.H.K.; Rinne, J. "*Novel Radio Channel Models for Evaluation of DVB-H Broadcast Systems*", The 17th annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC`06).

[7] ITU-R Recommendation P. 833-6, "Attenuation in Vegetation".

[8] COST 259 - Wireless Flexible Personalized Communications: European Cooperation in Mobile Radio Research; Luis M. Correia, Instituto Superior Técnico, Portugal, March 2001, 512 pp

PUC-Rio - Certificação Digital Nº 0711254/CA

[9] ITU-R Recommendation P. 1411-4, “Propagation data and prediction methods for the planning of short-range outdoor radiocommunication system and radio local area networks in the frequency range 300 MHz to 100 GHz.

[10] Okumura, Y.; Ohmori, E.; T. Kawano, T. and Fukuda, T. “Field strength and its variability in UHF and VHF land-mobile radio service”, Rev. Elec. Commun. Lab., vol. 6, no. 9, 1968.

[11] Hata, M. “Empirical formula for propagation loss in land mobile radio services”, IEEE Transactions on Vehicular Technology, vol.29, pp.317-325, 1980.

[12] ITU-R Recommendation P. 1546-3, “Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 3000 MHz”.

[13] Parsons, J.D. “The Mobile Radio Propagation Channel”, 2nd Edition, John Wiley & Sons, New York, 2000.

[14] Turin, G. et al. A statistical model of urban multipath propagation. IEEE Transactions on Vehicular Technology, VT-21(1):1–9, February 1972.

[15] ITU Recommendation ITU-R P. 1407: “Multipath propagation and parameterization of its characteristics,” 1999.

[16] Fasolo, S.A. “Equalização em Receptores de Televisão Digital de Alta Definição utilizando Modulação 8VSB ” , Tese de Doutorado, FEEC-UNICAMP, 2001.

[17] DVB Document A012, “Framing Structure, Channel Coding and Modulation for Digital Terrestrial Television”, 1996.

[18] Terrestrial Integrated Services Digital Broadcasting (ISDB-T) Document, “*Specification of Channel Coding, Framing Structure and Modulation*”, 1998.

[19] Hamazumi, H.; Imamura, K.; Lai, N.; Shibuya, K. and Sasaki, M. “*A Loop Interference Canceller for the Relay Stations in an Single Frequency Network for Digital Terrestrial Broadcasting*”, NHK Laboratories Note No. 469, Digital Broadcasting Networks Research Division, 1998.

PUC-Rio - Certificação Digital Nº 0711254/CA

[20] DVB Project: "Digital Video Broadcasting (DVB); Implementation Guideline for DVB-T; Transmission Aspects", DVB Document A037, March 1998.

[21] Plano Básico de Canalização para TV Digital, ANATEL, publicação eletrônica disponível em < http://www.anatel.gov.br> Acesso em 10 Abr. 2010.

[22] Ligeti, A. "Minimal cost coverage planning for single frequency networks", *IEEE Trans. Broadcast.*, vol. 45, no. 1, pp. 78–87, Mar. 1999.

[23] ITU Recommendation ITU-R BT.2035-1 Guidelines and Techniques for the Evaluation of Digital Terrestrial Television Broadcasting Systems, ITU-R, 2003-2004.

[24] Brugger, R. "Single-frequency networks at 1,5 GHz for Digital Audio Broadcasting," *EBU Technical Review*, winter 1993.

[25] Weck, C. "Coverage aspect of digital terrestrial television broadcasting," *EBU Technical Review*, winter 1996.

[26] Frank, J.; Petke, G. "DVB-T – network structures and costs for full coverage," *EBU Technical Review*, June 2001.

[27] Elvino S. Souza, *Member, IEEE*, Vladan M. Jovanovié, *Member, IEEE*, and Christian Daigneault, *Member, IEEE*. "*Delay Spread Measurements for the Digital Cellular Channel in Toronto*", IEEE Transactions on Vehicular Technology, Vol. 43. NO. 4, November 1994.

[28] Castellanos, P.; Gonzalles, V. Caracterização do canal de propagação de banda larga na faixa de UHF para aplicações de TV Digital, Tese de Doutorado em Engenharia Elétrica, Pontifícia Universidade Católica do Rio de Janeiro, Rio de Janeiro Agosto 2008.

[29] Shigang Tang; Changyong Pan; Ke Gong and Zhixing Yang. "Propagation Characteristics of Distributed Transmission with Two Synchronized Transmitters", The State Key Laboratory on Microwave and Digital

PUC-Rio - Certificação Digital Nº 0711254/CA

Communications, Department of Electronic Engineering, Tsinghua University, Beijing 100084, China.

[30] Angueira, P. *et al.* "DTV (COFDM) SFN signal variation field tests in urban environments for portable outdoor reception," *IEEE Trans. Broadcast.*, vol. 49, no. 1, pp. 81-86, Mar. 2003.

[31] Malmgren, G. "On the performance of single frequency networks in correlated shadow fading", *IEEE Trans. Broadcast.*, vol. 43, no. 2, 1997.

[32] Lijun Zhang; Lin Gui; Yantao Qiao and Wenjun Zhang. "Obtaining Diversity Gain for DTV by Using MIMO Structure in SFN," *IEEE Transactions Broadcasting.*, vol., 50, no. 1, March. 2004.

[33] Adel, A.; Saleh, M. and Reinaldo, A. Valenzuela. A statistical model for indoor multipath propagation. IEEE Journal on Selected Areas of Communications, SAC-5:128–13, February. 1987.

[34] Hanzo, L.; Webb, W.; Keller, T. "Single and Multi-carrier Quadrature Amplitude Modulation – Principles and Applications for Personel Communications, WLAN`s and Broadcasting", John Wiley & Sons, Ltd, Chichester 2000.

[35] Tapan, K.; Sarkar; Zhong, Ji; Kyungjung, Kim; Abdellatif Medouri and Magdalena Salazar-Palma. "A Survey of Various Propagation Models for Mobile Communication", Department of Electrical Engineering and Computer Science, Syracuse University, Ecole Nationale des Sciences Appliquées, Abdelmalek Essadi University, Grupo de Microondas y Radar, Dpto. Senales, Sistemas y Radiocommunicacion, ETSI Telecomunication, Universidad Politecnica de Madrid.

[36] Schmid, F.H. A prediction model for multipath propagation of pulse signal at VHF and UHF over Irregular Terrain, *IEEE Transactions on Antennas and Propagation*, Vol. AP 18, No 2, pp 253-258, 1970

PUC-Rio - Certificação Digital Nº 0711254/CA

[37] MISBTVD - Consórcio: INATEL, UNICAMP, LINEAR, CEFET/PR, UFSC – Anexo A – Caracterização do Canal de Radiodifusão de TV – Dayan Adionel Guimarães – FINEP – Ministério das Comunicações

[38] Matějka, Š. Study of Performance of Single Frequency Networks with Orthogonal Frequency Division Multiplexing Modulation Scheme, Czech Technical University, Faculty of Electrical Engineering, Prague, 2004.

[39] Ganesh, R. and Pahlavan, K. Statistical modeling and computer simulation of indoor radio channel. IEE Proceedings-I, 138(3):153-161, June. 1991.

[40] Rappaport, T.S. "Wireless Communications: principles and practicel", 2nd Edition, Prentice Hall PTR, 1996.

[41] ITU Recommendation ITU-R P 526-12 Propagation by diffraction, ITU-R, 1978-2012.

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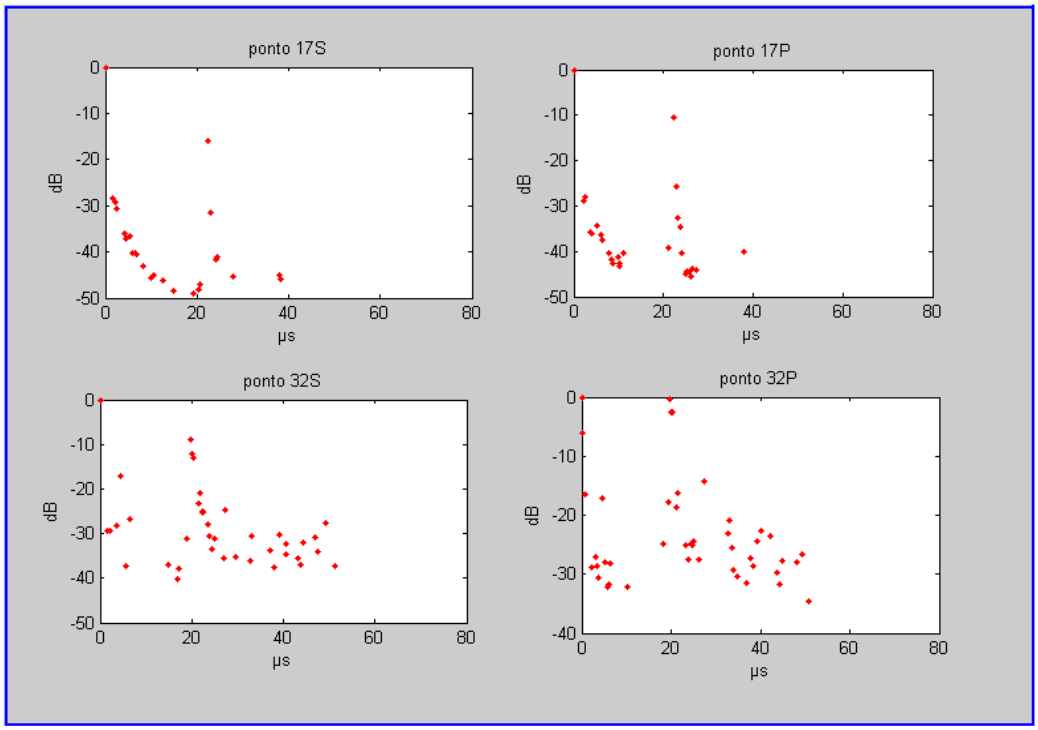
Anexo A. - Perfis de Retardos

Antena Direcional



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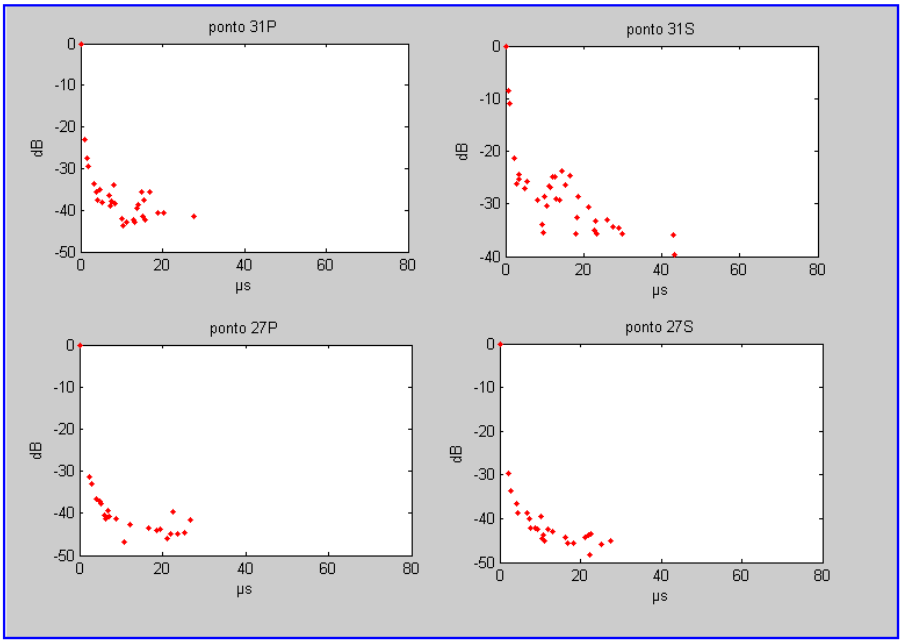

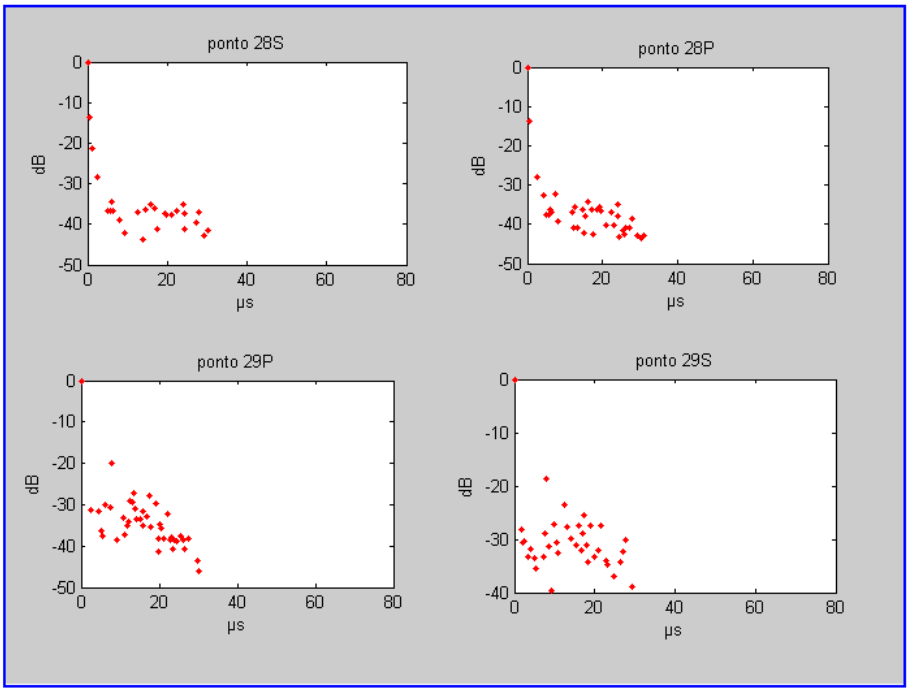

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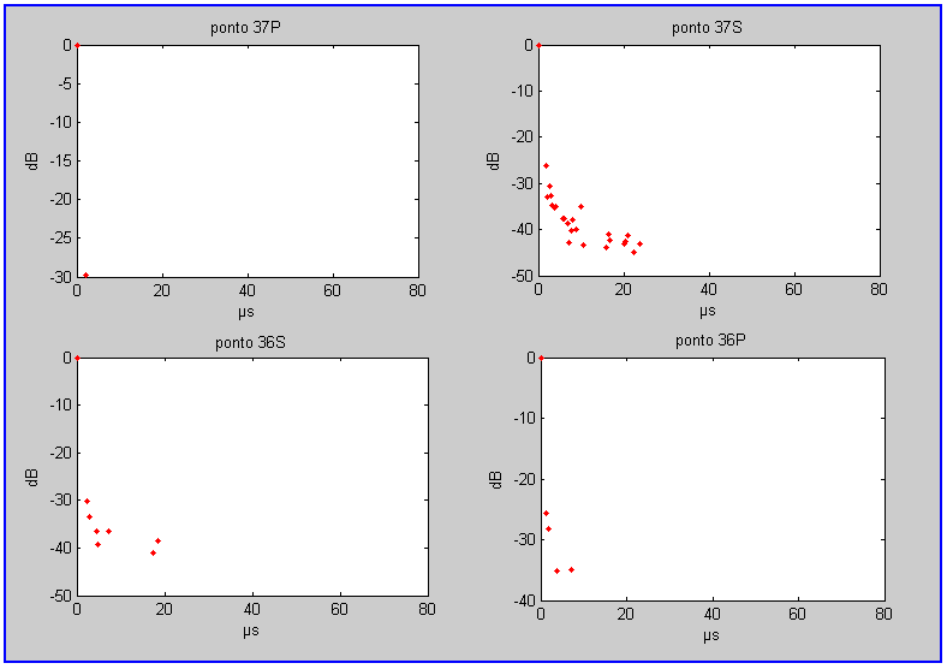

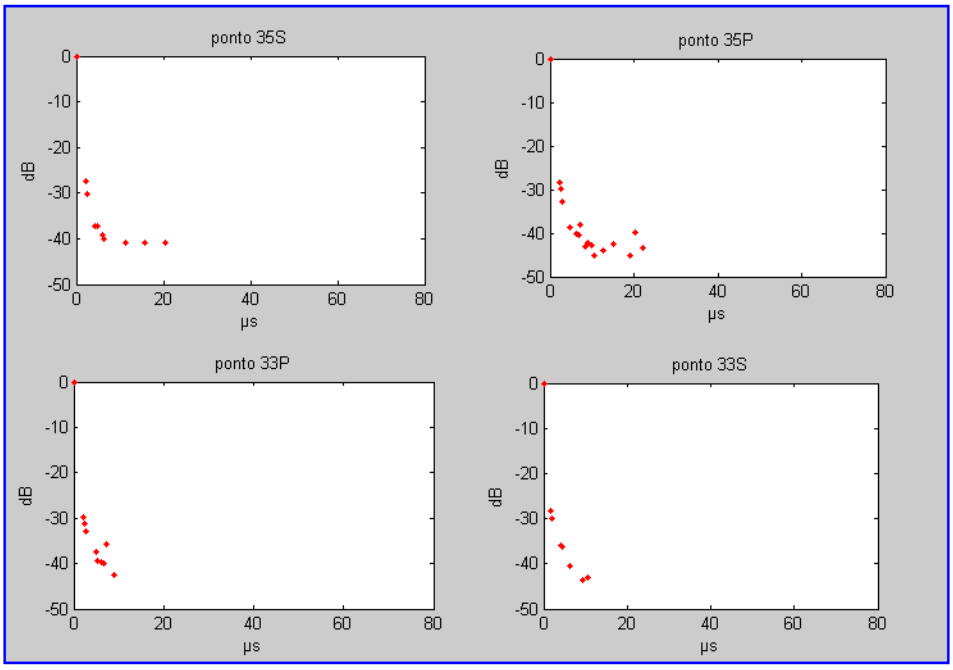

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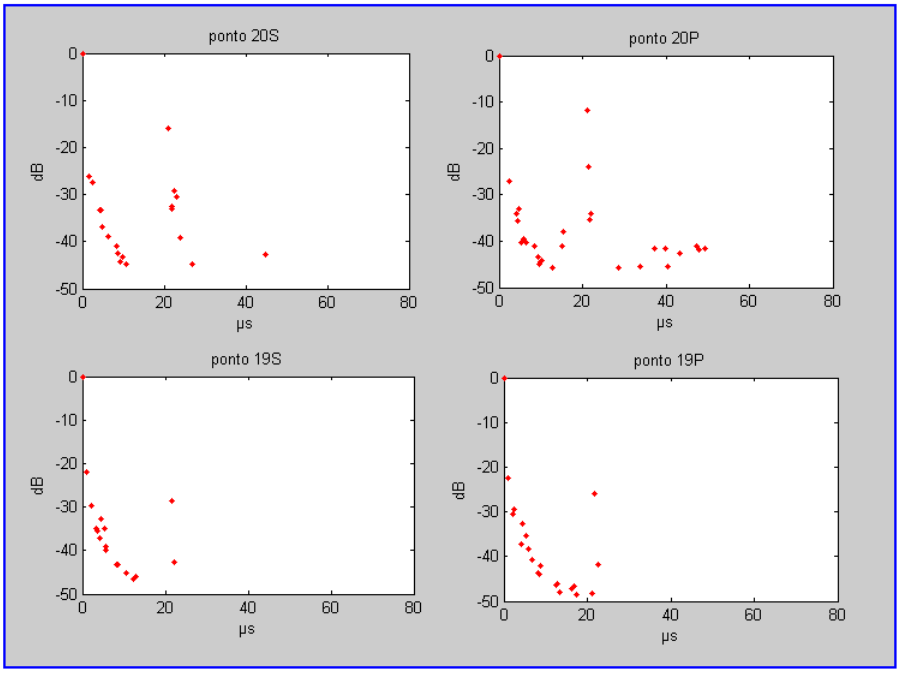

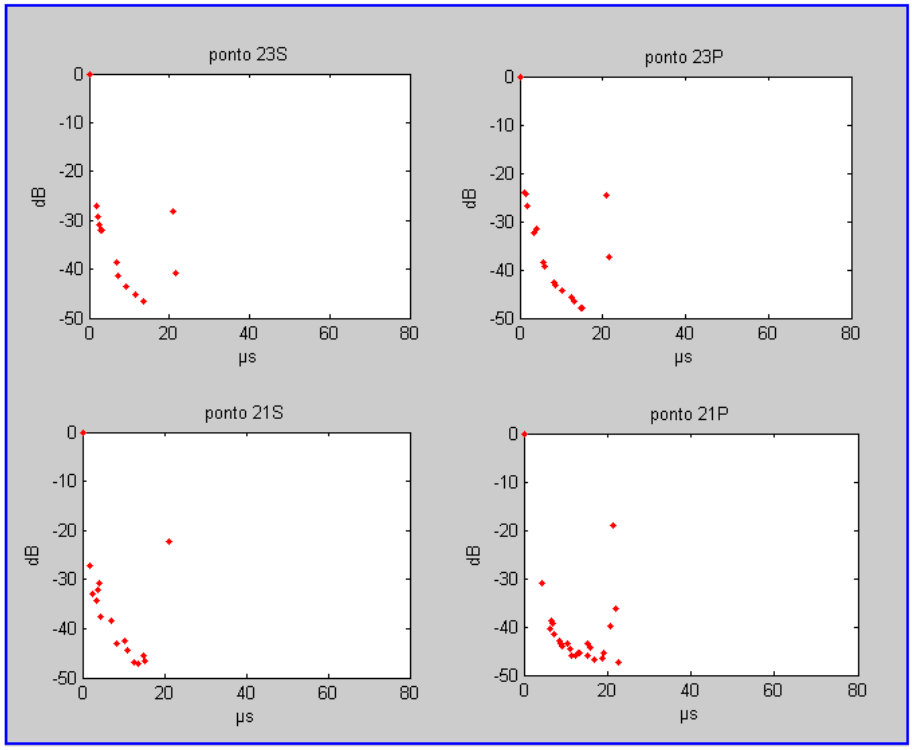

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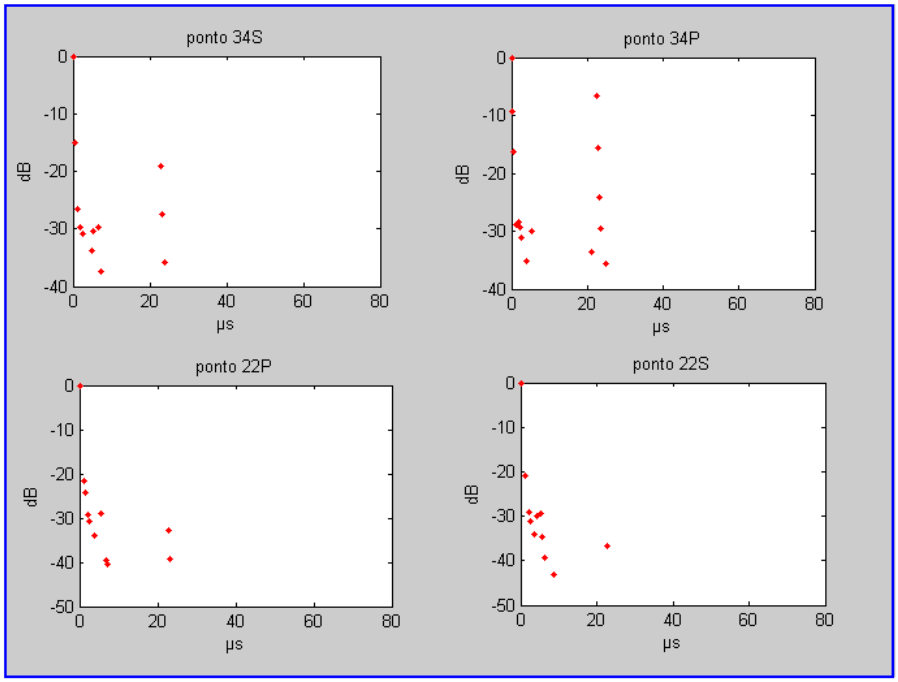

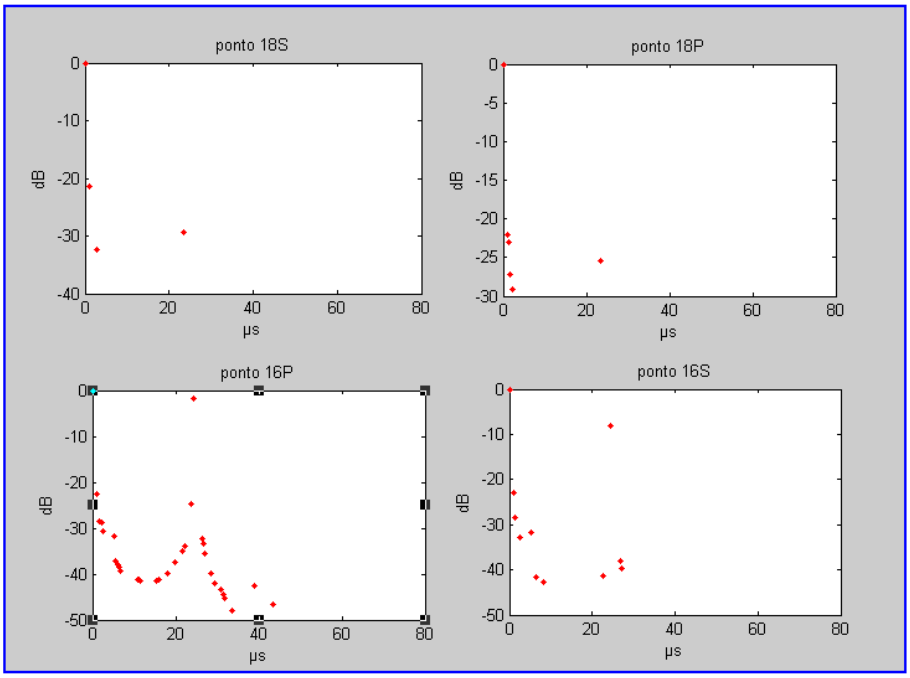

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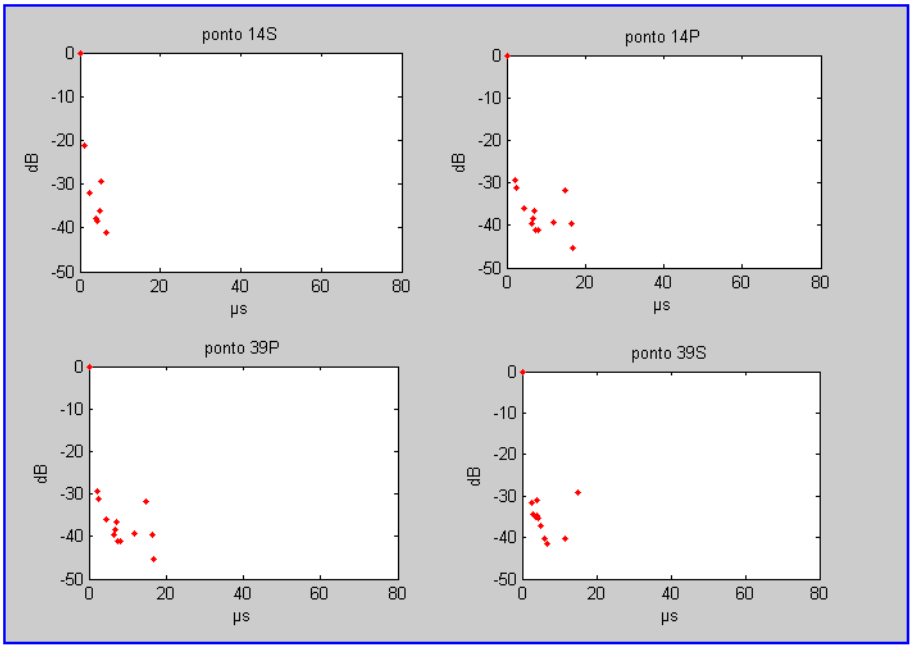

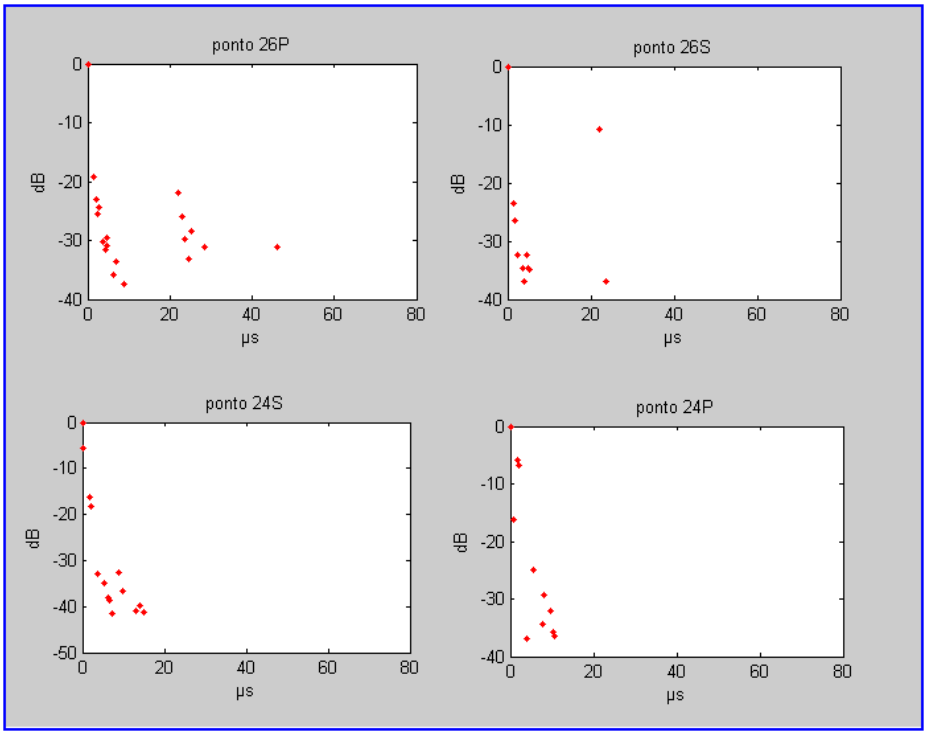

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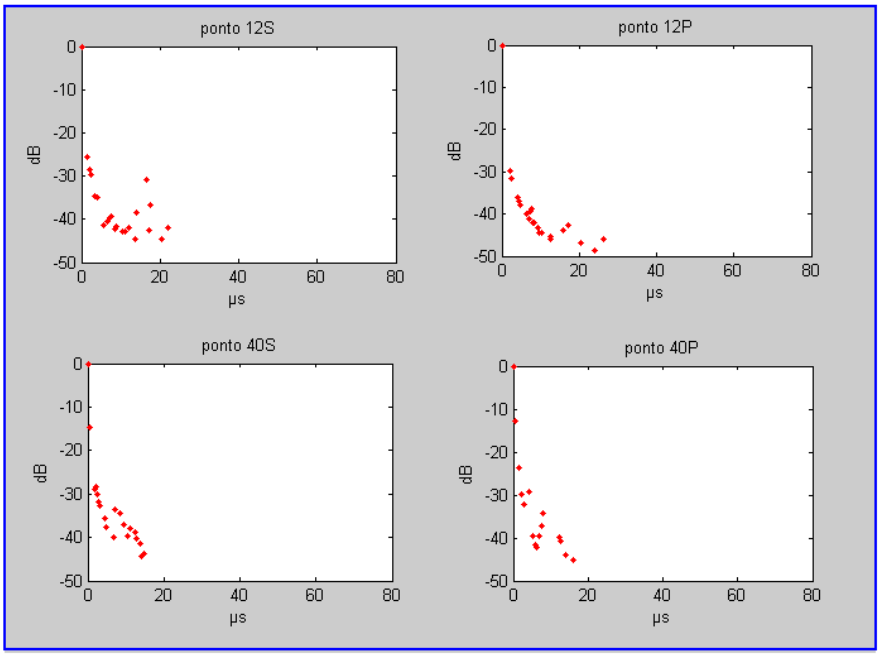

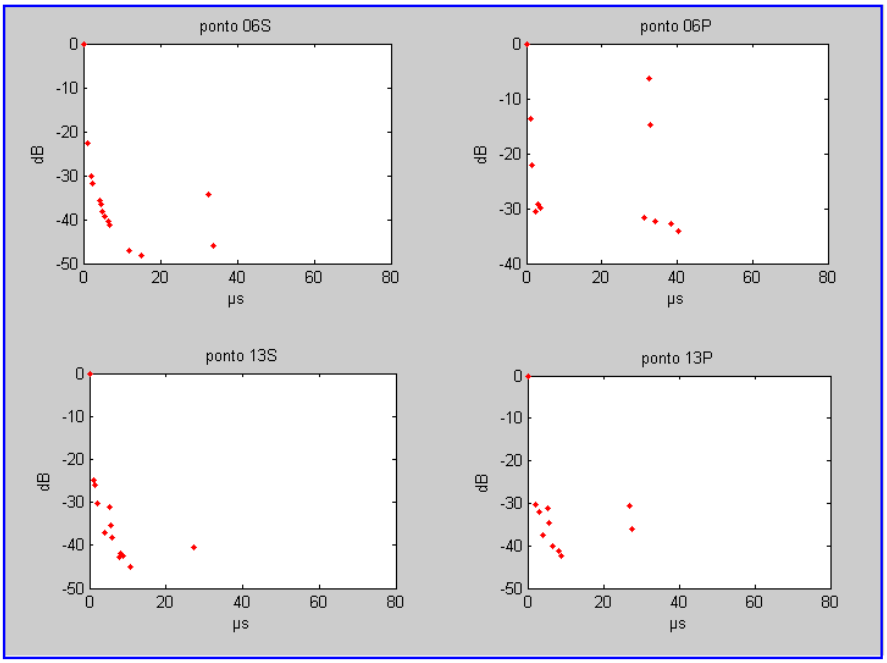

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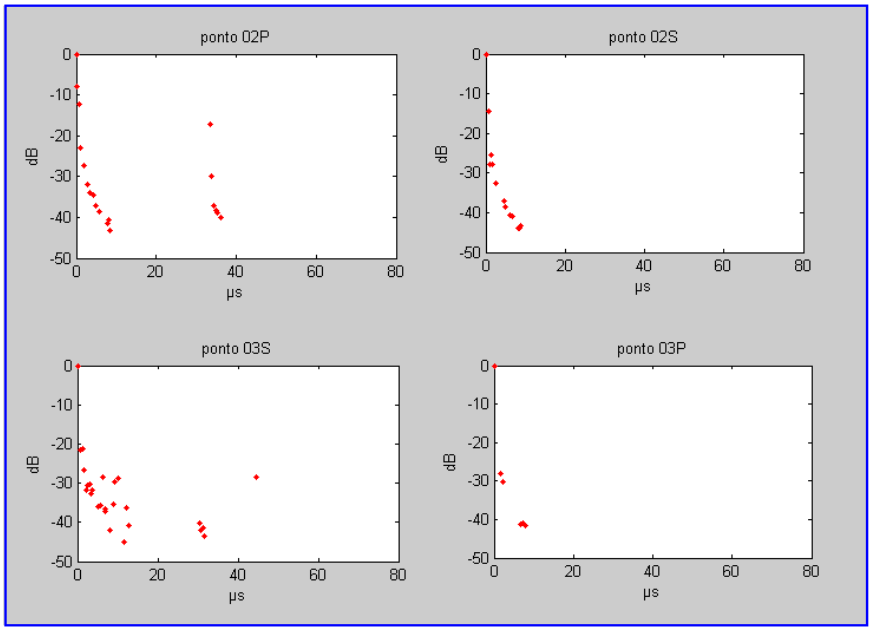

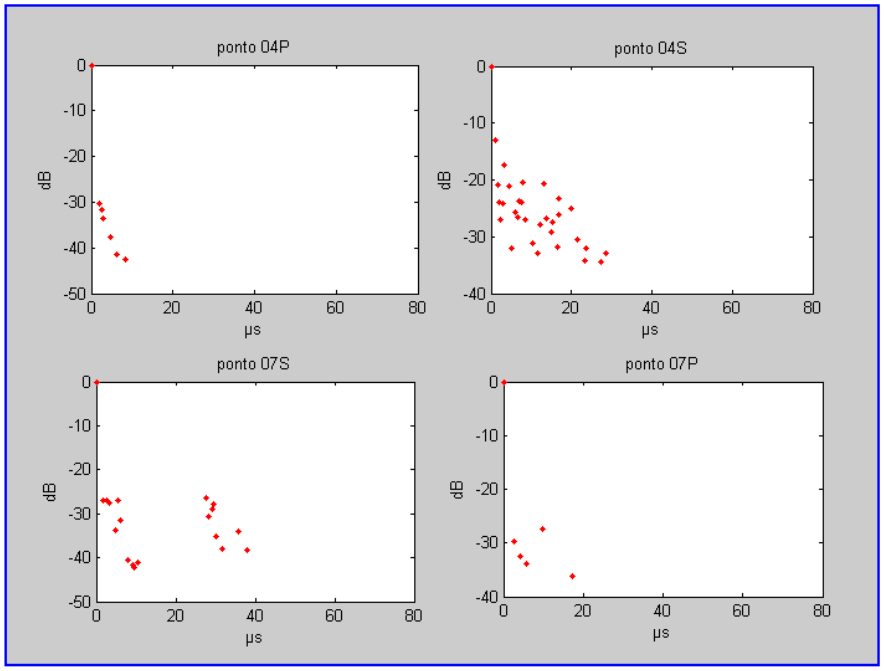

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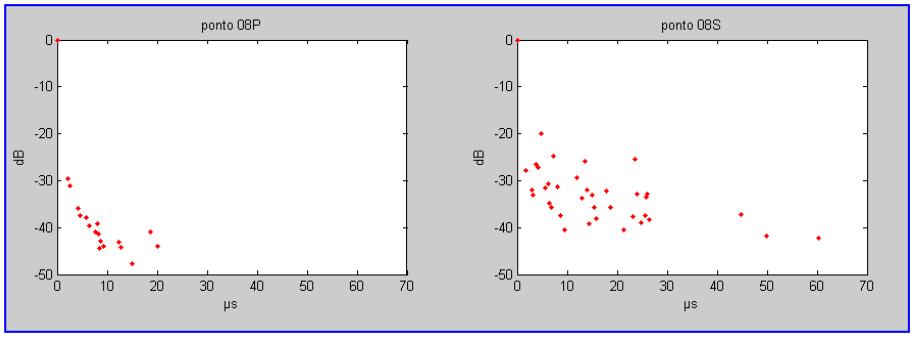
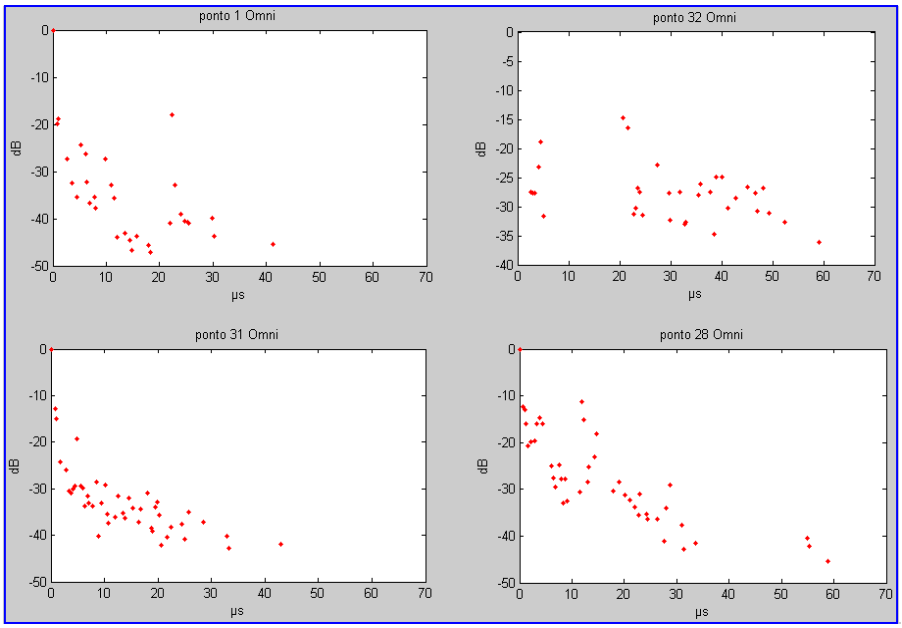


Antena Omnidirecional



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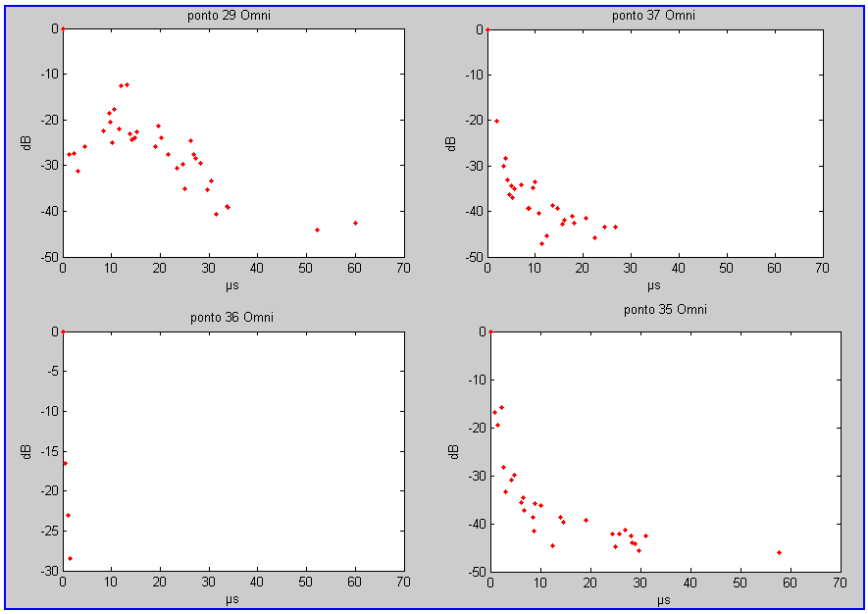

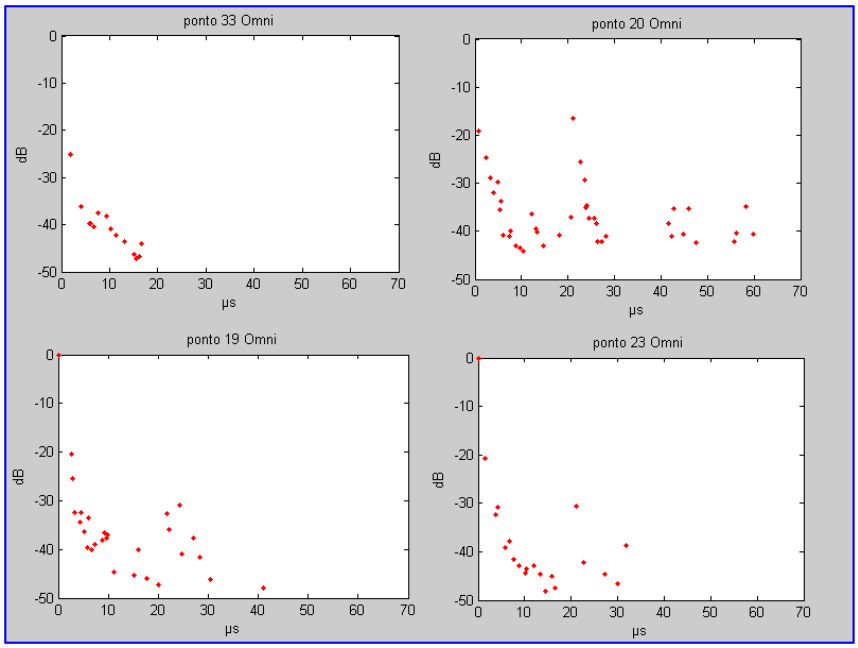

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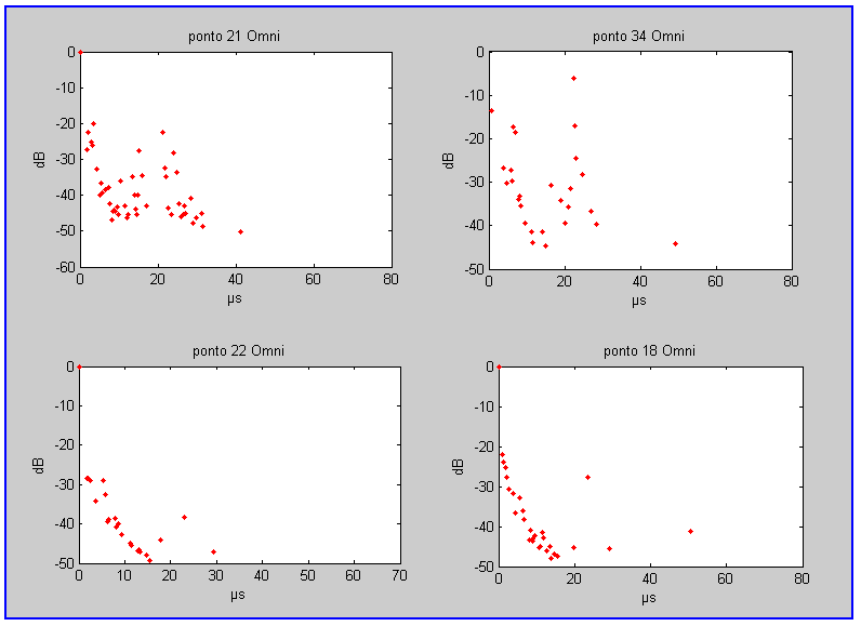

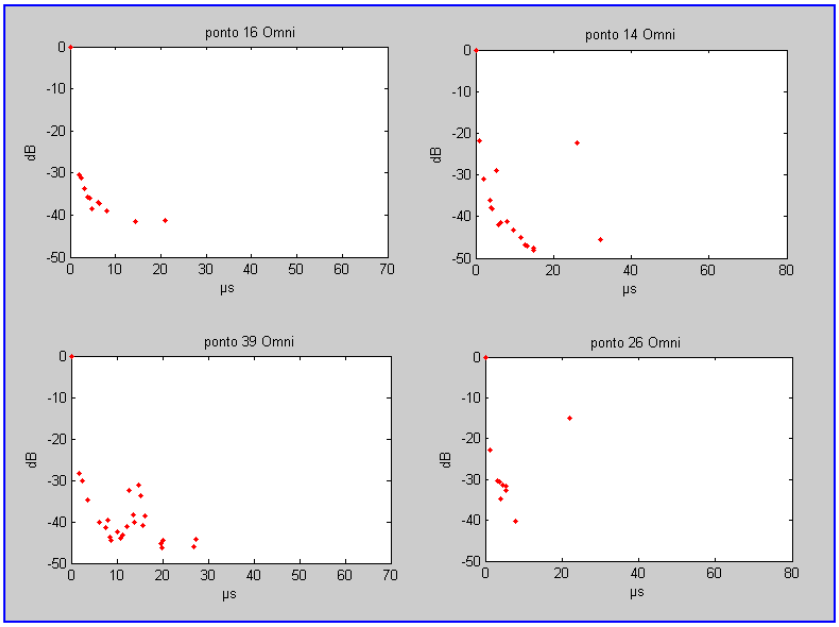

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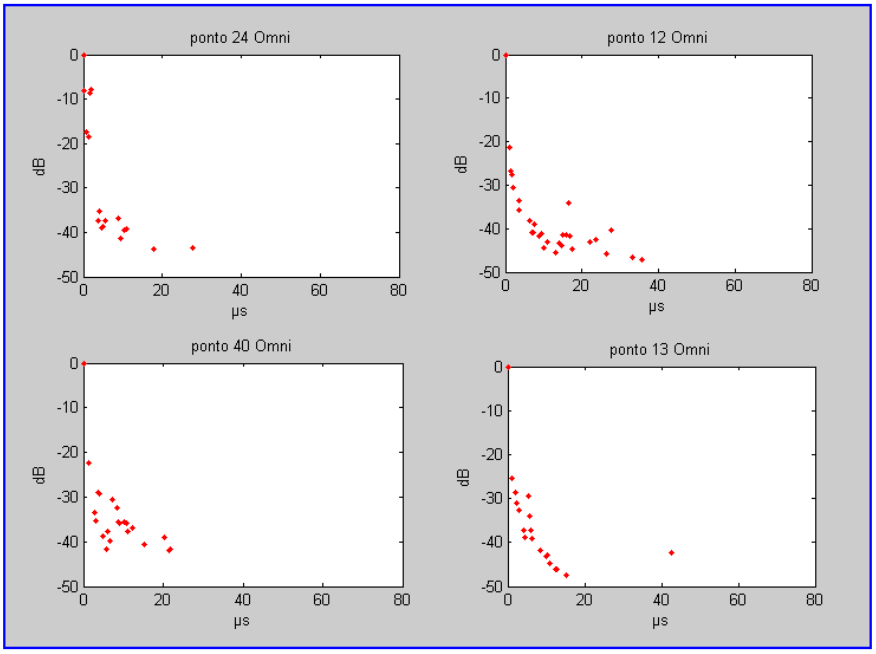

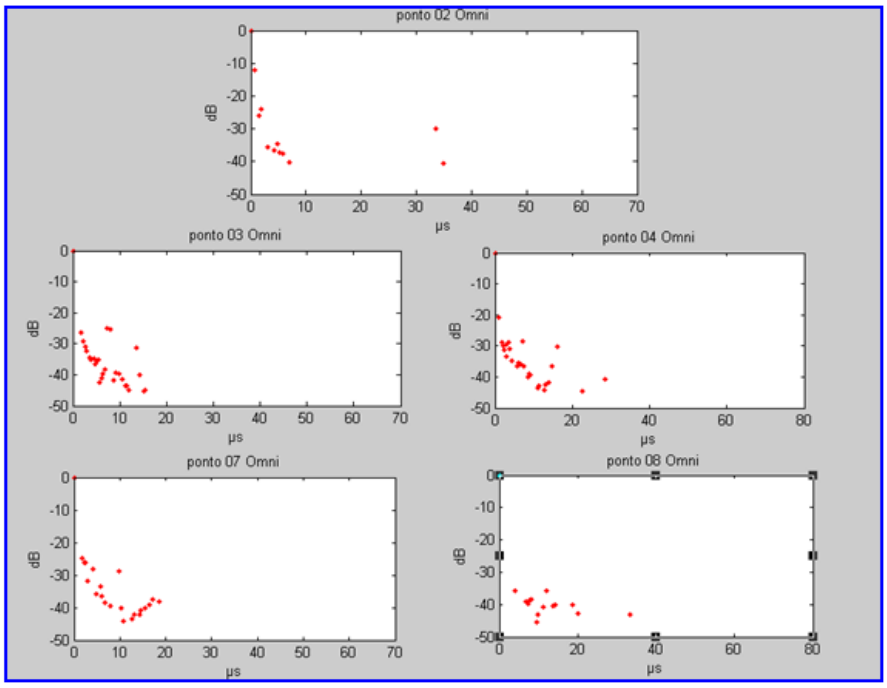

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