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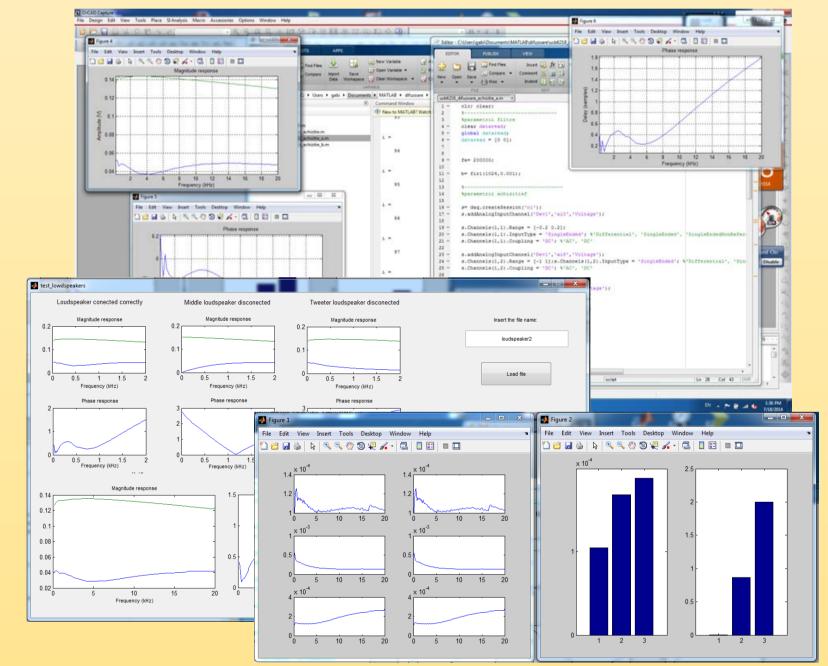
Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept RequSpec (LH) External Version

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The subject of the research contract is to evaluate and develop a method and a system for testing the parallel loudspeakers in an car. The research must be focused on the aspects regarding:

- feasibility: can be implemented in good conditions in DräxImaier plants, in an industrial environment;
- reliability: measure all the features of the loudspeakers;





Laboratory system to verify the methods and algoritms

Work packages and activities:

- Documentation, design and study of experimental
- a) Systems analysis that need to be tested

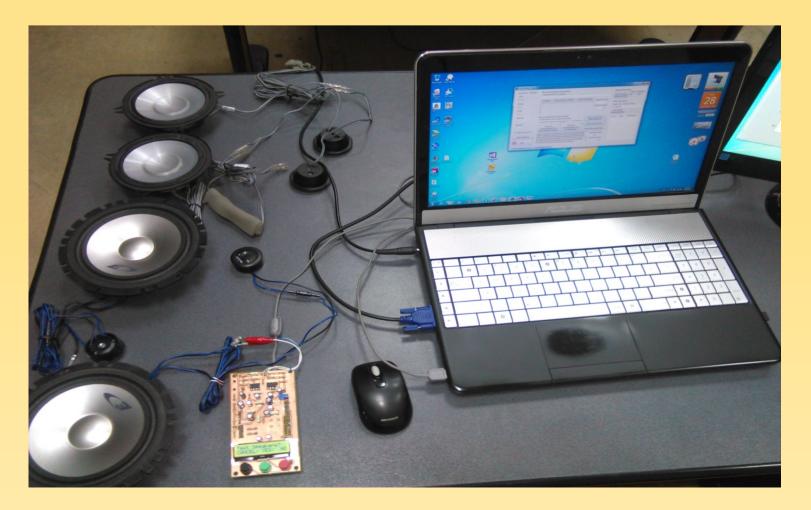
b) Documentation about systems and technologies that can be used in the project topic and determining the best solutions that can be applied and specify the strengths and weaknesses of them

- c) Study the test requirements and system specifications
- d) Define the basic configuration
- e) Designing solution of the experimental system
- f) Simulation and evaluation of system solution
- The development of experimental system
- a) Realization of the experimental system
- b) Inspection and testing of experimental hardware and correct design specifications
- c) Testing and measurement making with the experimental system in laboratory conditions

• Development of speaker system (prototype)

- a) Finalize the design specifications of the prototype
- b) Developing prototype
- c) Checking the functional prototype
- d) Testing the system at a workstation place

Testing results in MATLAB



Final prototype for test of speaker system