

## Components Experiments



Phase D: Achievement / Qualification



Phase A: Feasibility



Phase B: Preliminary definition Determine if they meet



the requirements
Phase C: Detailed Definition





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Phase F: Withdrawal Service

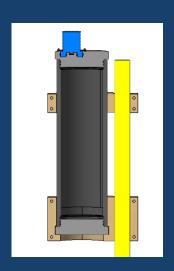
# example

#### **VQV** Procedure introduction

(Verification – Qualification – Validation)

#### Verification

Check the characteristics and performance of the instrument



#### Qualification

Define instrument's functional limits



#### **Validation**

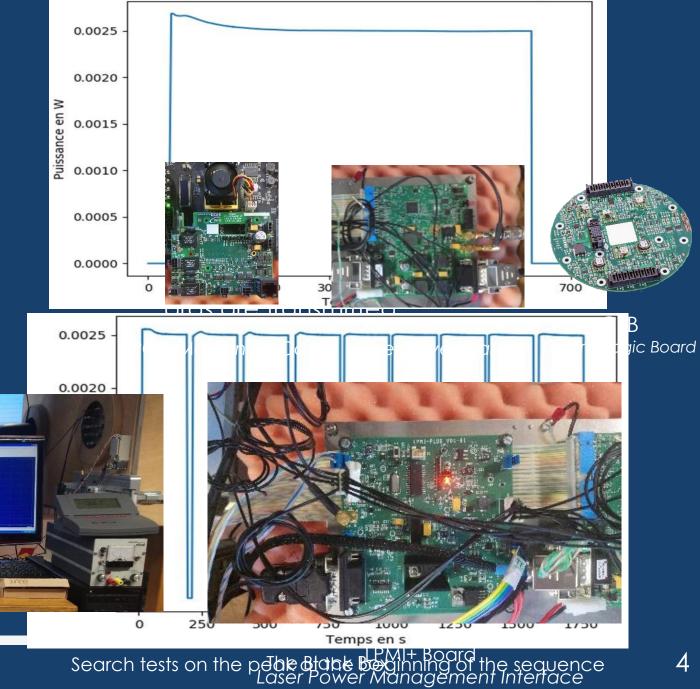
Validate the conformity of requirements



#### IV. Components **Experiments**

#### Comments

- the opening angle
- the capacity of use of the battery
- the stability of the laser according



#### **Hydrophone Qualification**



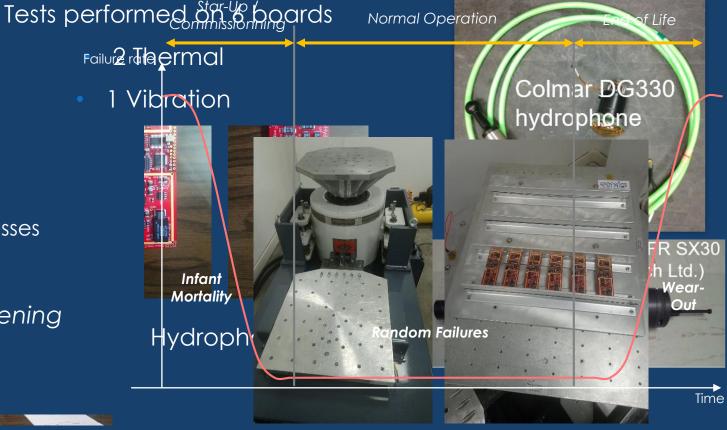




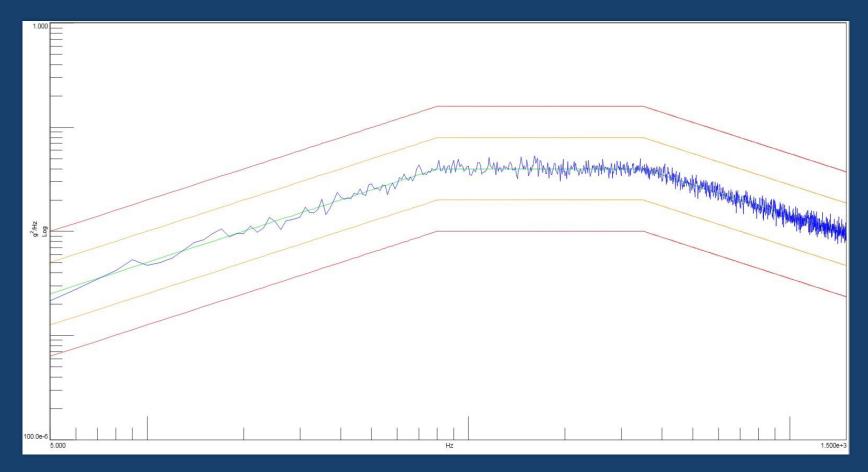
IV. Components **Experiments** 

1 Vibration

- HALT & HASS
  - Highly Accelerated Life Test
    - Detect design flaws & weaknesses
  - Highly Accelerated Stress Screening
    - Detect defects related to the manufacturing process



### **Vibration Test**





Vibration test Chart

## IV. Components Experiments

#### **Hydrophone Qualification**



#### √ Following Steps

- Perform the HASS test
  - Vibration2 cycle of 20 minutes: x or y axis & z axis
  - Thermal
     10 thermal cycles on all cards

- Referencing all anomalies
- Improve the **test setup** in collaboration with Colmar
- Update the Qualification procedure

Prepare test benches

Identify facilities

Conclusion

Preprare plan