



From ABCv0 to ABCv1

TEST BENCH
PRELIMINARY RESULTS
ABC-V0 TO ABC-V1
ABC PRODUCTION



Tools to test ABC

- Functional Tests
- Future developments

Preliminary results

- Hardware behaviours
- Test results problem
- Conclusion

ABC v1 : the final version

- Wishing list
- Schedule

Production line : discussion

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- **Production line : discussion**

Juno sPMT follow good line but a lot of work remains to accomplish...

- **Continue to test ABC V0 → Need new firmware dedicated to test**
- **Challenge on ABC V0: to be ready end of April**
- Deliveries :
 - sPMT test Bench in September
 - ABC V1.0 in September
 - sPMT DAQ FW ready in December
 - Production preparation Phase
 - CATIROC Production in 2018
 - ABC production in 2019

OBJECTIFS (II) : Proposal to confirm

→ September

→ December

2019

[OMEGA – APC] CATIROC PRODUCTION & TEST

ABC V0 sPMT Test Bench
Ready to use

ABC V1 Ready to test

TRR1 for ABC V1.0 :
ABC V1.0 exists

TRR2 for ABC V1.0 :
ABC V1.0 tested

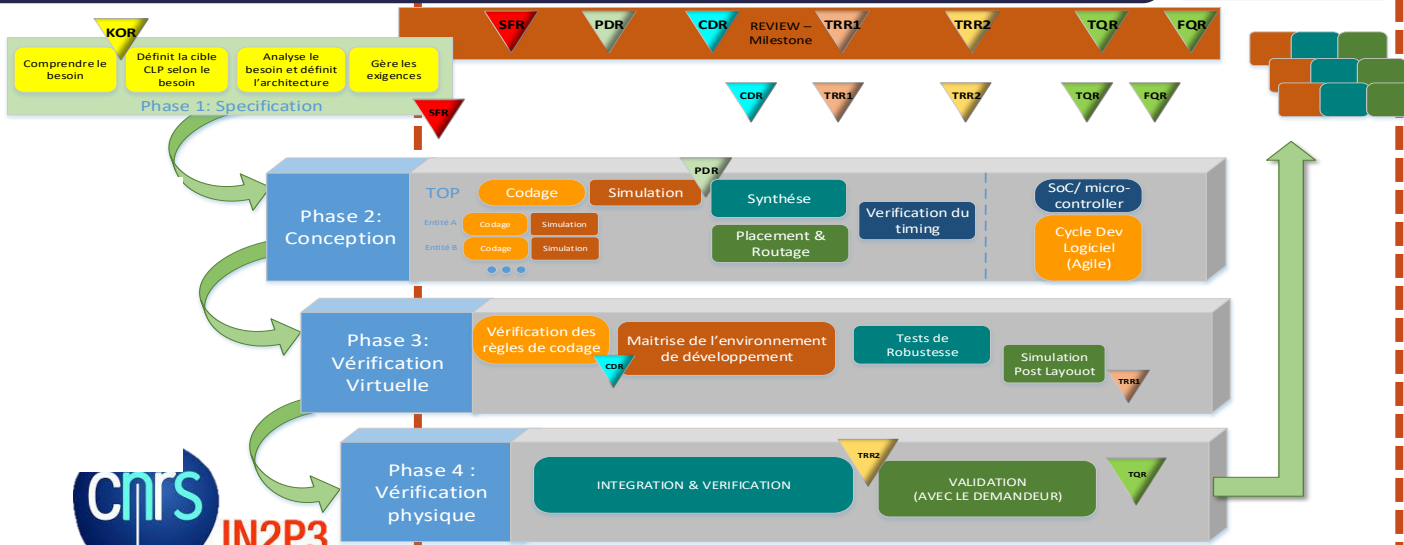
Subcontracting ABC V1.0 Preparation
(call for tender)

ABC V1.0
Production
Phase

UWB sPMT DAQ Development

Validated
DAQ

UWB
Integration
Prototype
phase



Norme requirement

- ISO9001 → certified Management (Process)
- EN9100 → aeronautic & spatial quality production (reliability)

Production schedule

Final Validation Test on site

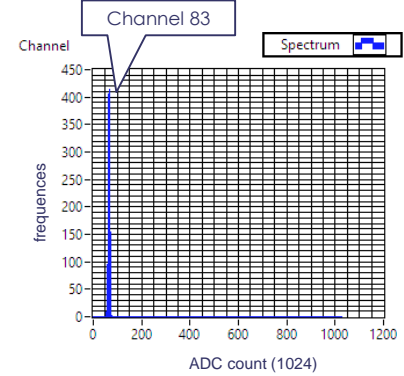
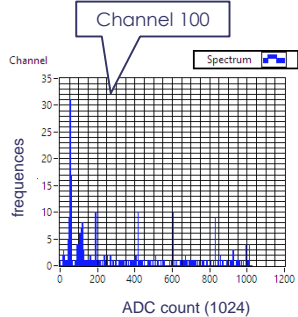
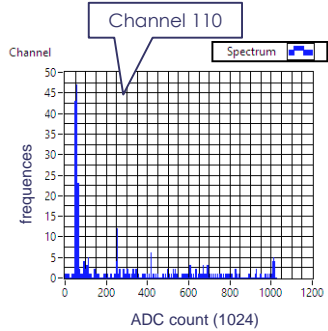
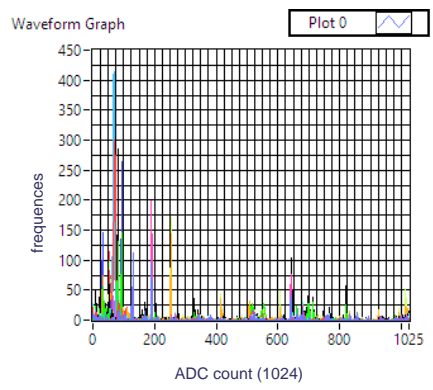
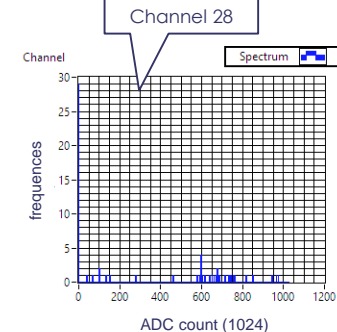
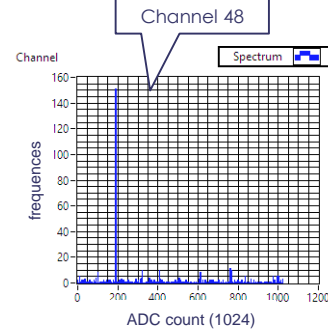
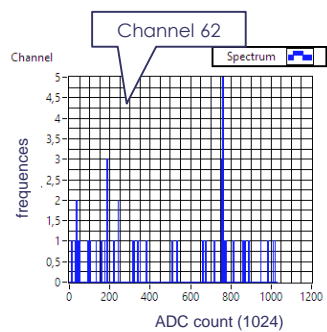
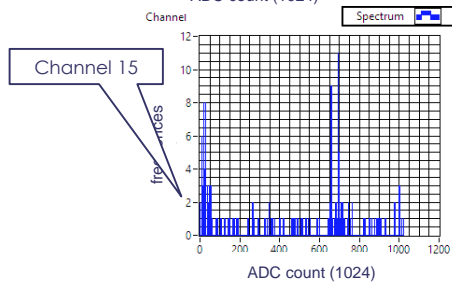
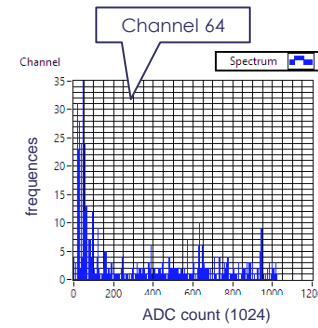
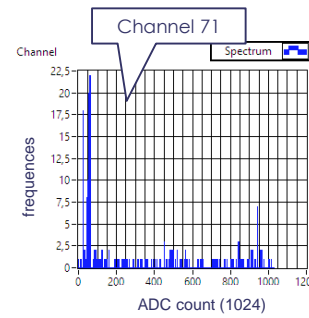
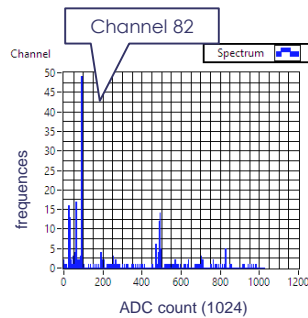
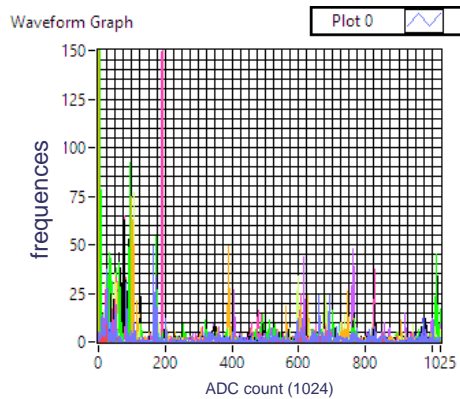
- To Supply reliable test Bench

Lowest price according to quality requirement

Objective:

4 months production depending of component availability on market

Test 1.1 : Charge behaviors in Noise (All channels actives)



When triggering in noise, behavior seems weird because charge populated all ADC Channels

Threshold : 985

Threshold : 970