R4-B26ah-0016

Lower E850 protection from B26 UL A-MPR study, results for 6MHz offset

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TSG-RAN Working Group 4 (Radio) meeting B26ah
Jersey City, January 17-19 2012

Source:	Nokia Corporation
Title:	Further A-MPR results for lower E850 protection at 6MHz offset
Agenda item:	4.2.5
Document for:	Discussion

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Simulation Campaign

Protection of E850 band above Band 26 UL

- Protected band extending down to 851-853MHz:
  - 2, 3, and 4MHz offsets to E-UTRA UL channel edge (tdoc 0004)
  - 6MHz offset (this document)
- Emission limits: –40 and –35dBm/MHz
- B26 modulator LO and image suppression 25…30dBc:
  - IQ 25dBc / LO25dBc
  - IQ 28dBc / LO25dBc
  - IQ 28dBc / LO28dBc
  - IQ 30dBc / LO30dBc
  - 60dBc CIM3
- PA operating point set so that with full RB allocation and QPSK signal, ACLR and SEM masks just met with 1dB MPR
- A-MPR (dB) as a function of all legal RB allocations (QPSK)

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3MHz carrier

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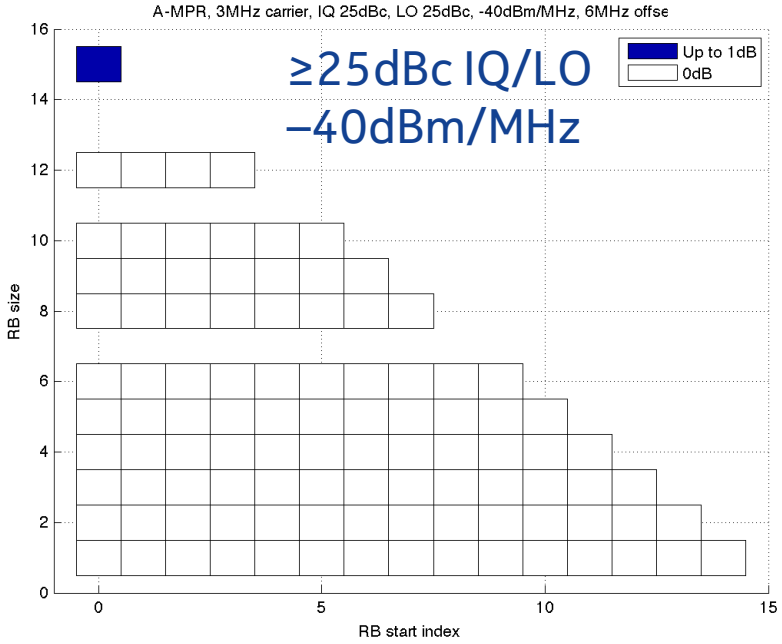
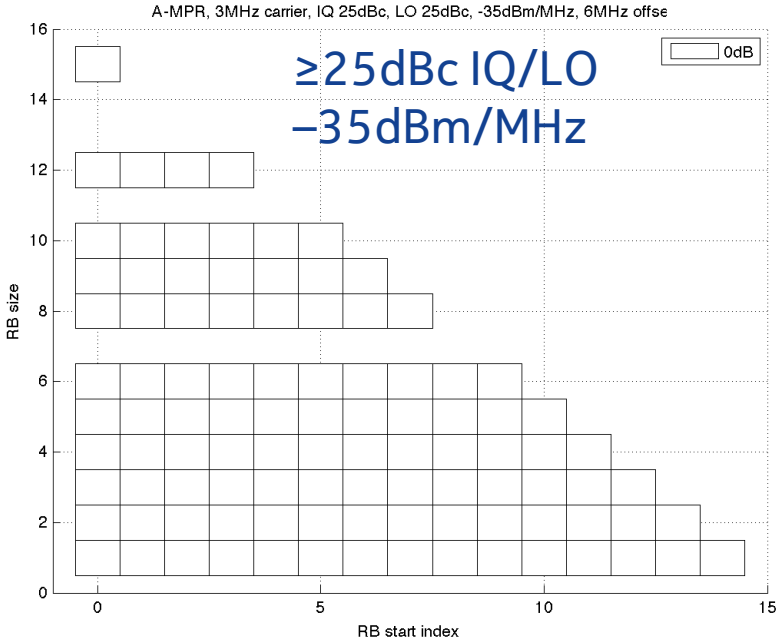
A-MPR, 3MHz carrier –40dBm/MHz and –35dBm/MHz, 6MHz offset





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5MHz carrier

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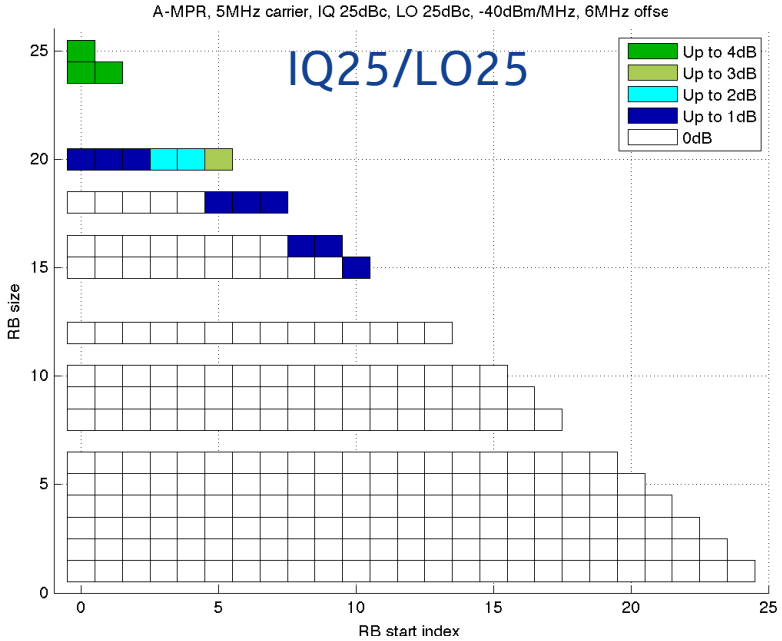
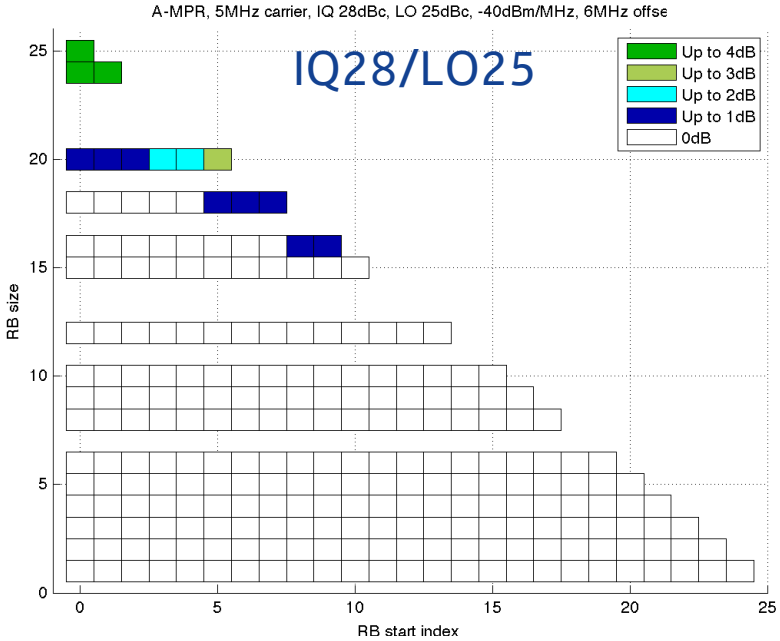
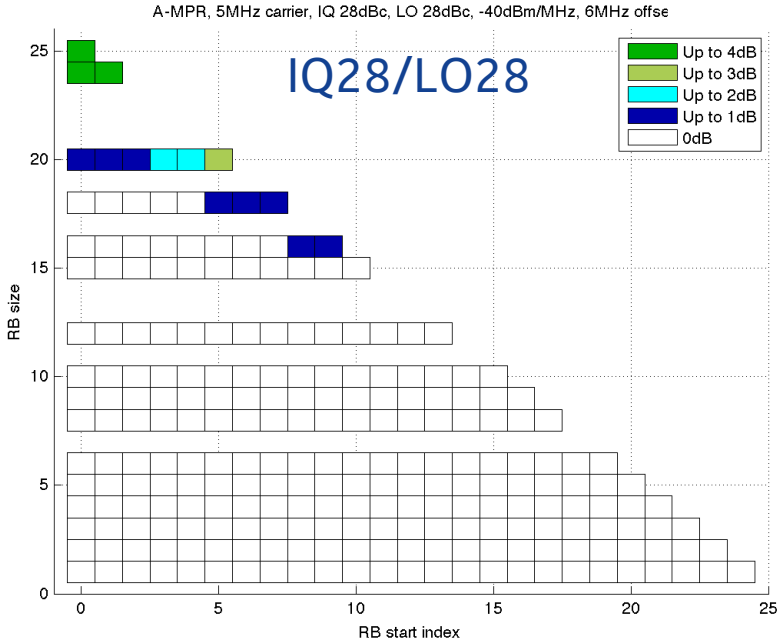
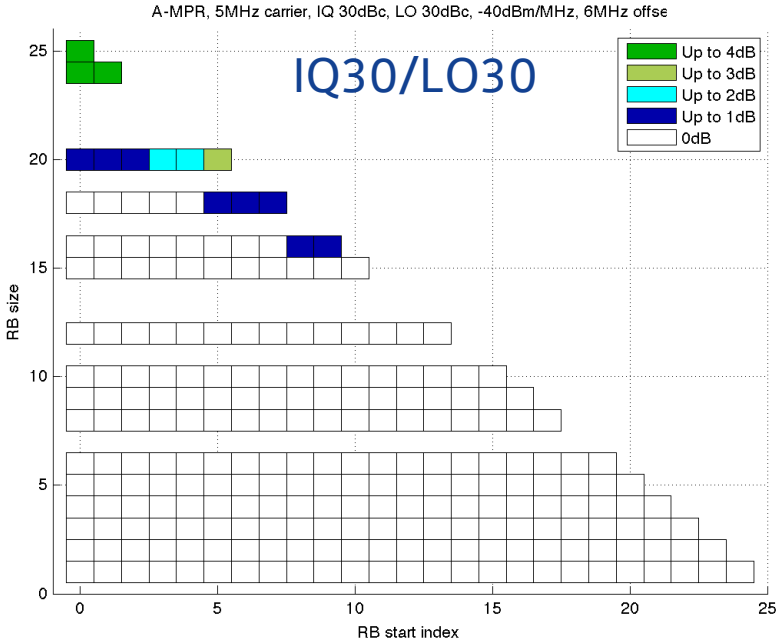
A-MPR, 5MHz carrier –40dBm/MHz, 6MHz offset









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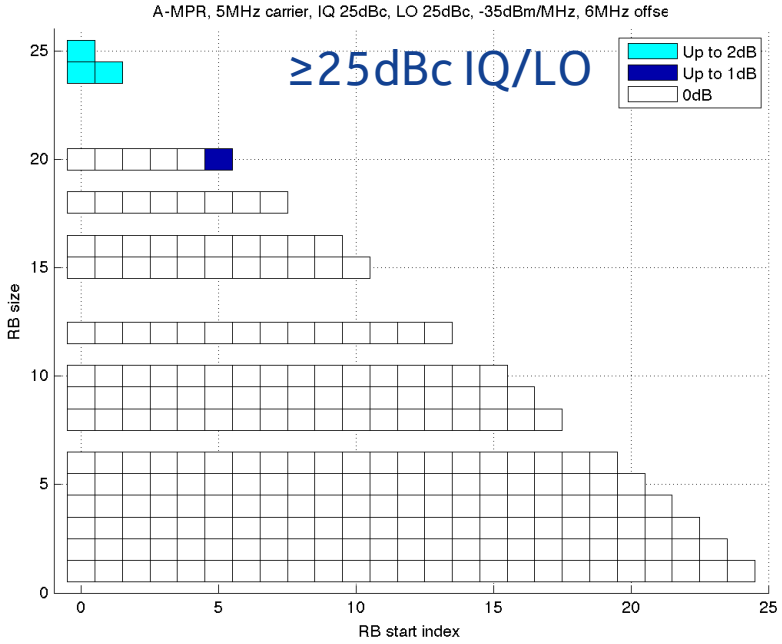
A-MPR, 5MHz carrier –35dBm/MHz, 6MHz offset



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10MHz carrier

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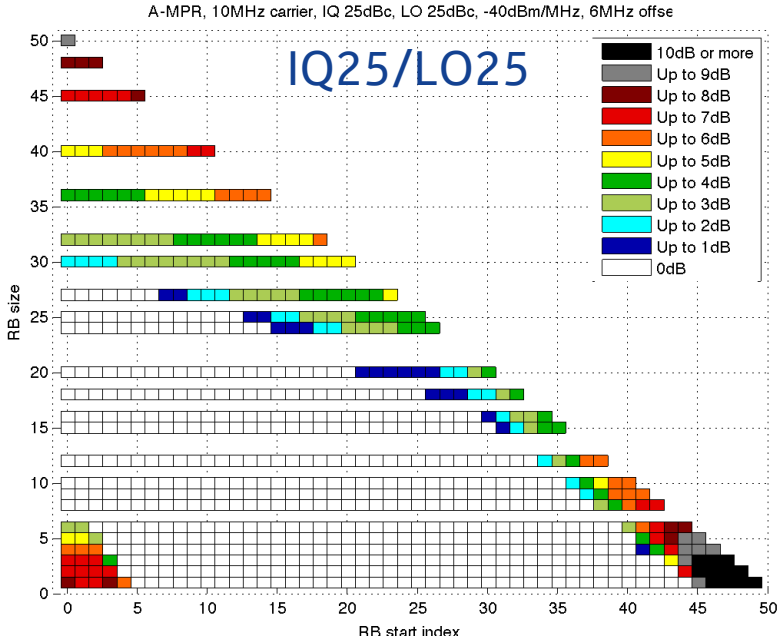
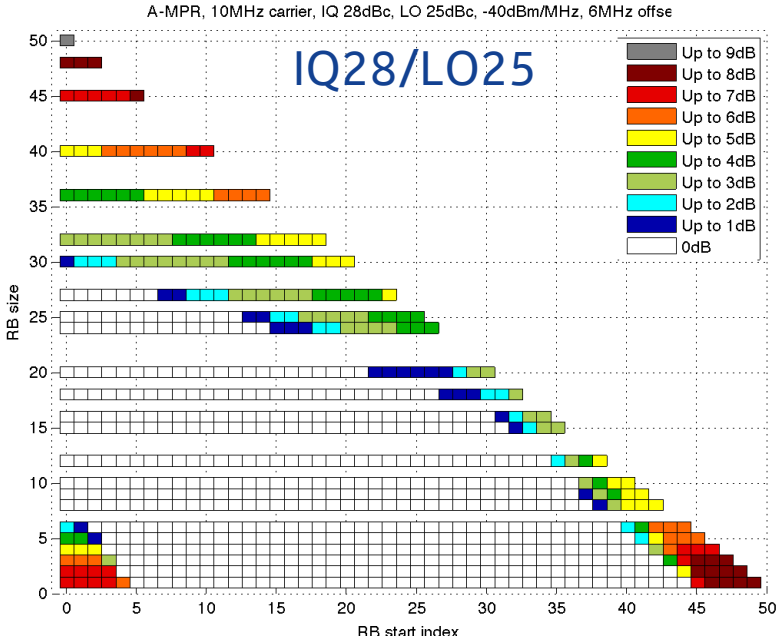
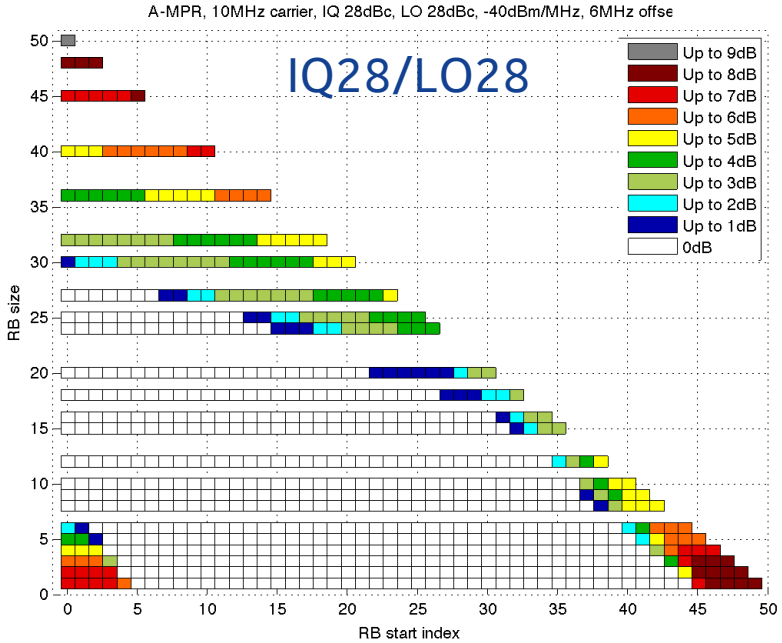
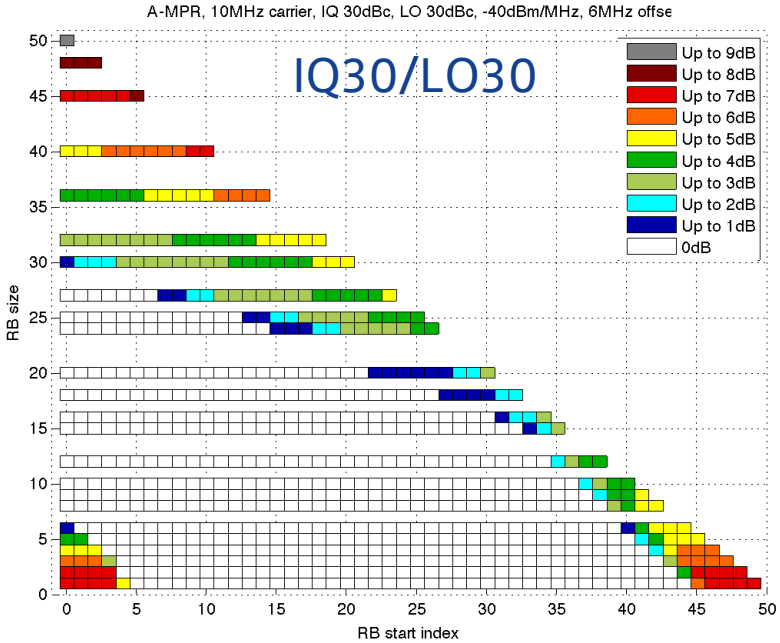
A-MPR, 10MHz carrier –40dBm/MHz, 6MHz offset









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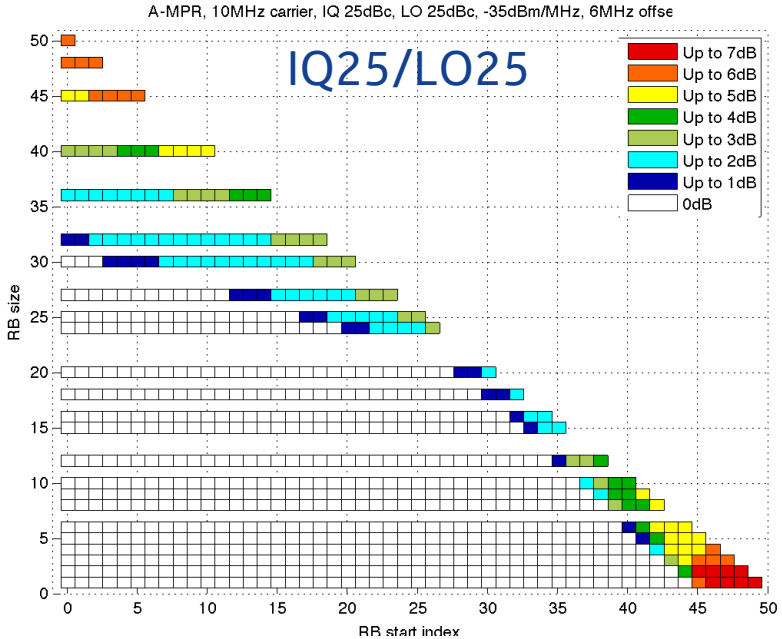
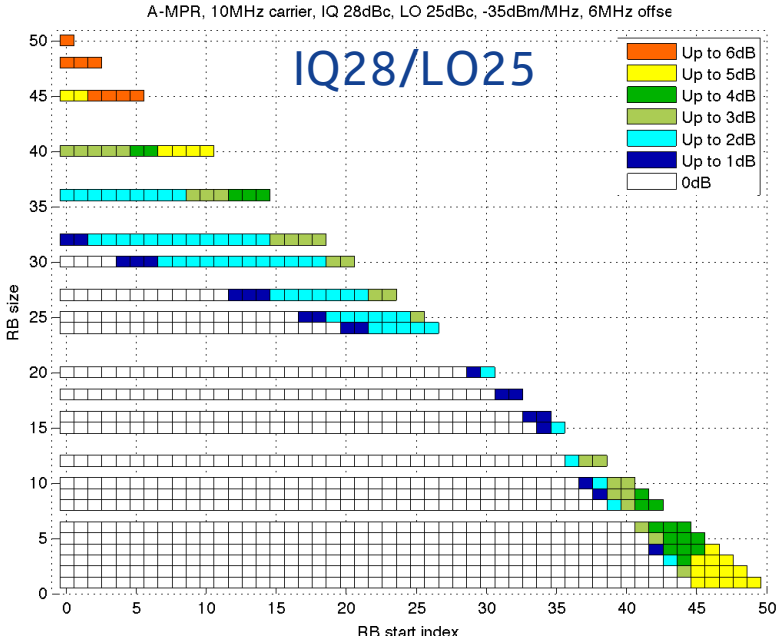
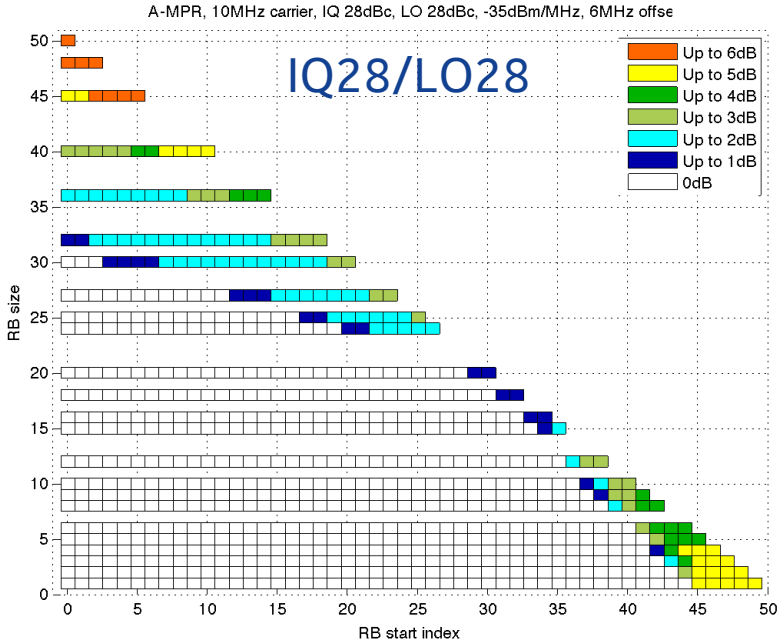
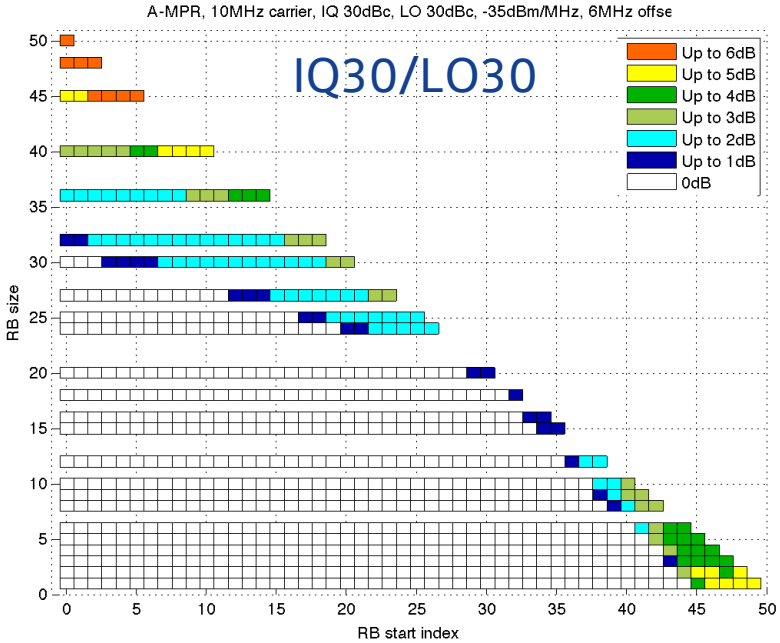
A-MPR, 10MHz carrier –35dBm/MHz, 6MHz offset









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15MHz carrier

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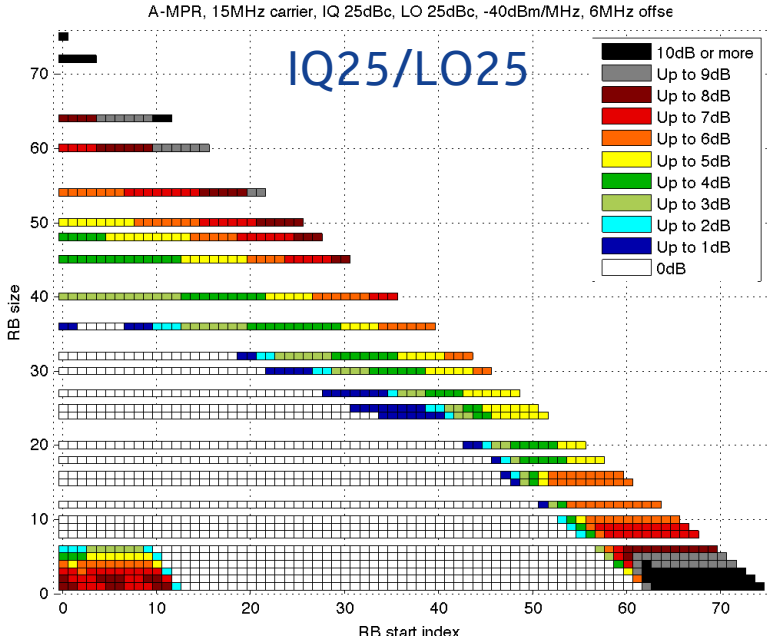
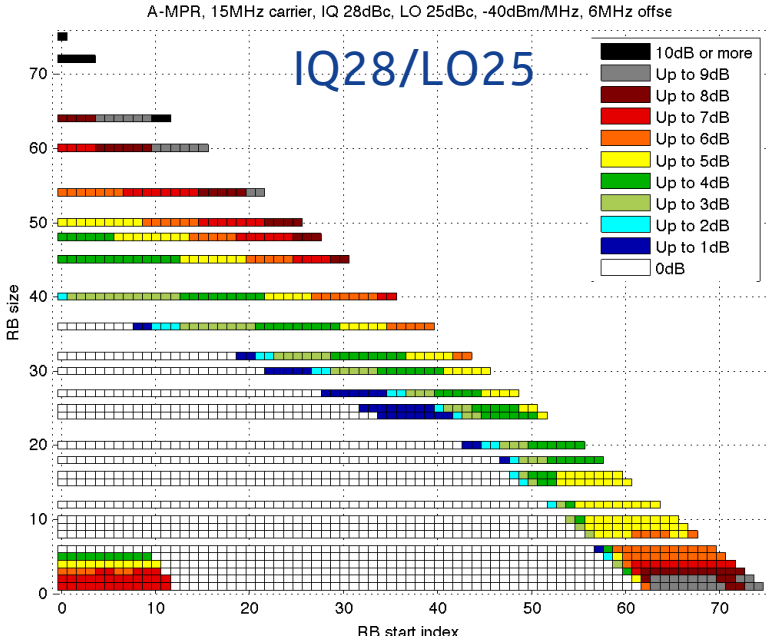
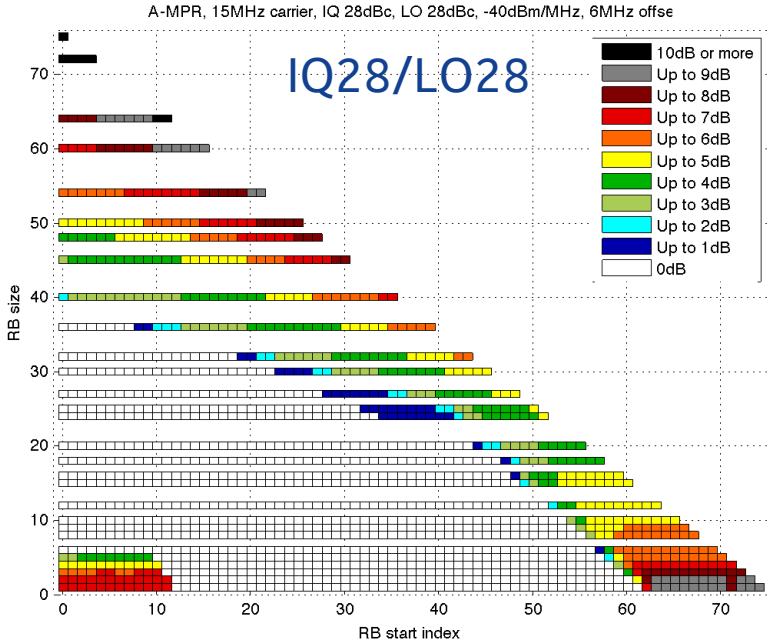
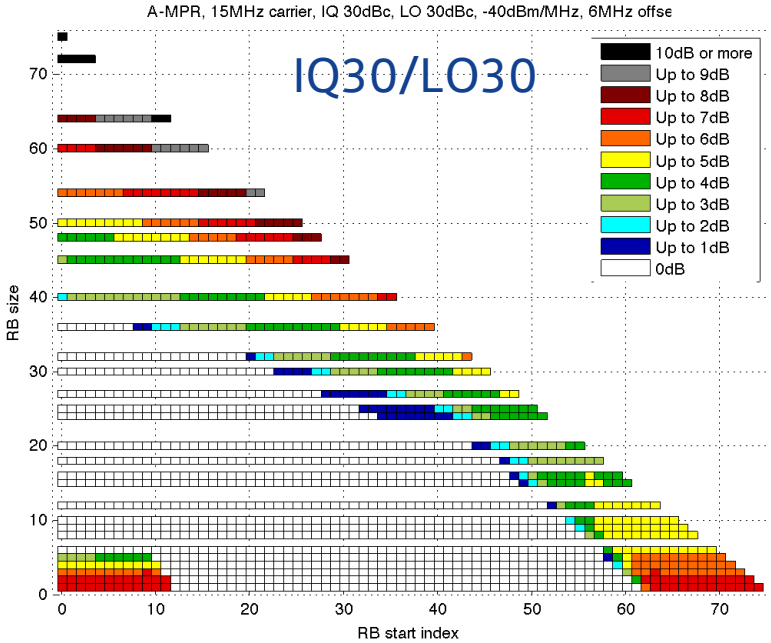
A-MPR, 15MHz carrier –40dBm/MHz, 6MHz offset









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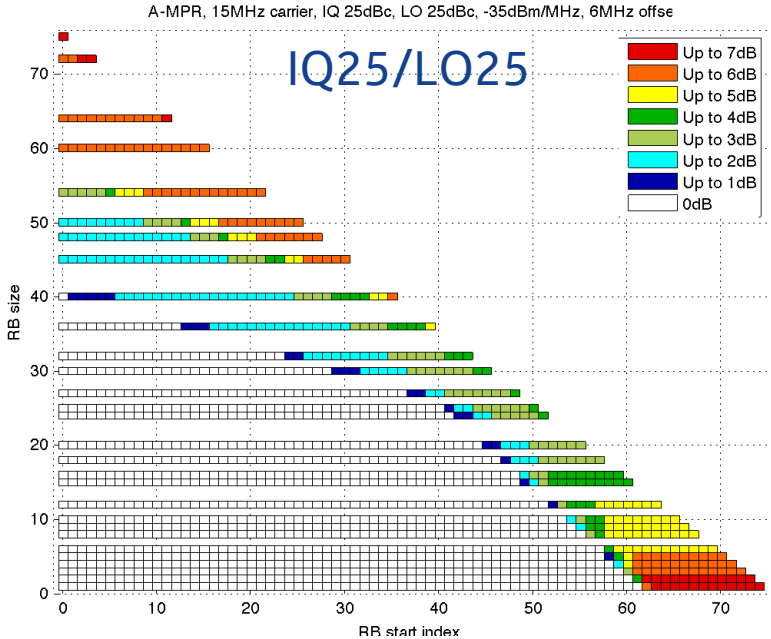
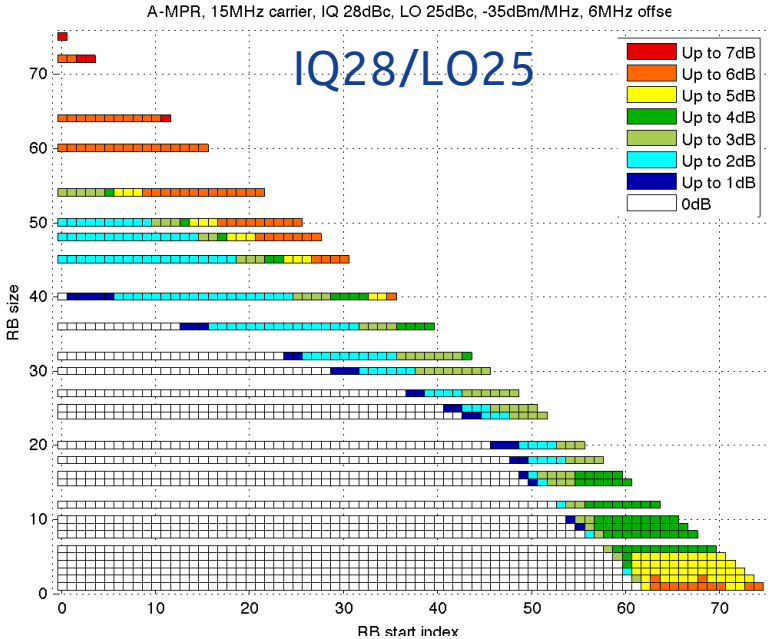
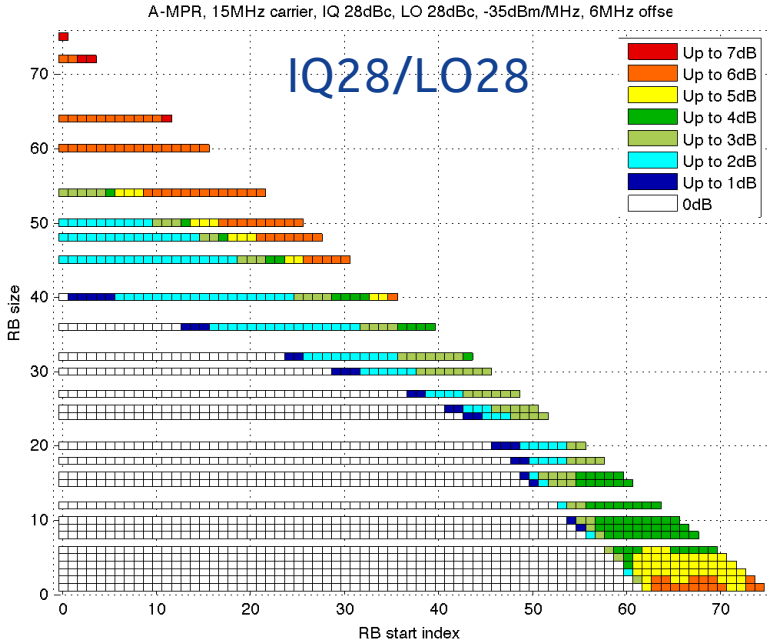
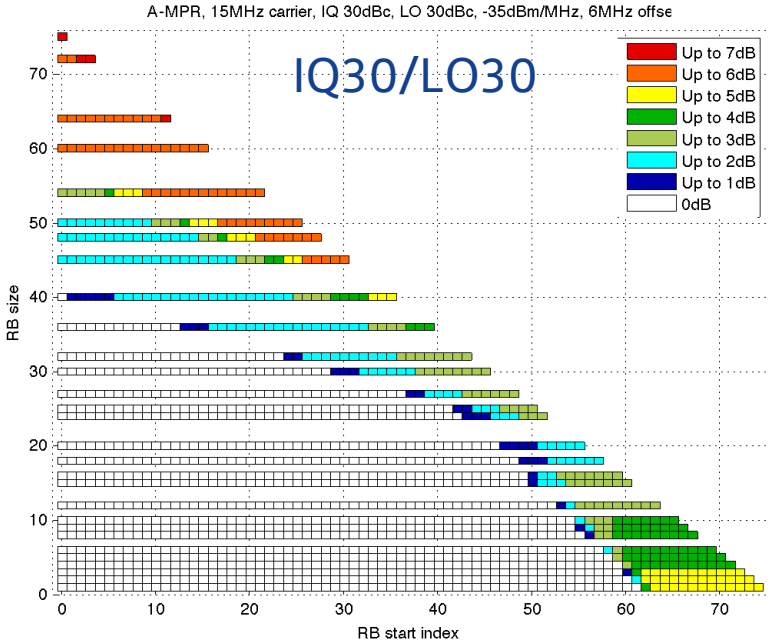
A-MPR, 15MHz carrier –35dBm/MHz, 6MHz offset









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