
Status of series production of ASIC-hybrids and modules in Japan

1) Summary of defective ASIC-hybrids/defective ASICs

-- defectiveASIC021210.pdf

2) Abnormal response in high thresholds in cold

-- AbnormalResponse25Oct02.pdf

2) Status of Modules

Metrology - mMetSUMM_20021208.pdf

Electrical - electricalModule021210.pdf

3) Hot-electron study of micro-discharge modules

-- see S. Terada's presentation

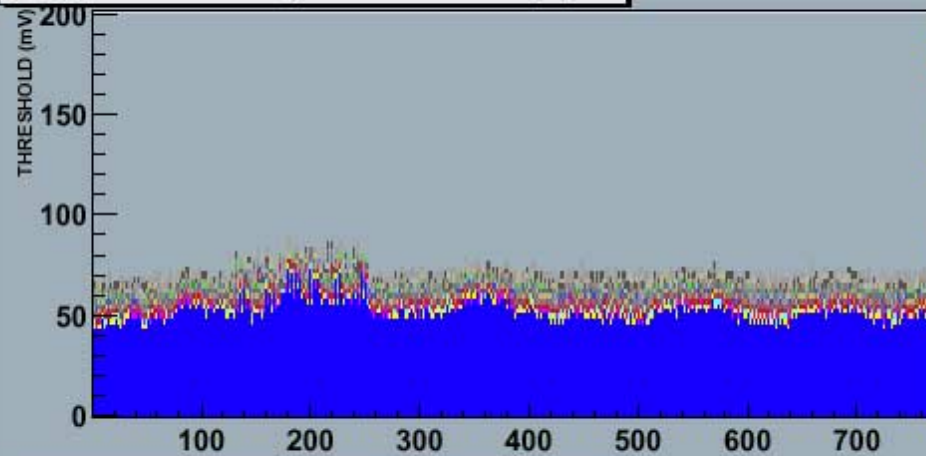
ID=552 : Abnormal Cal. line : S01 : Z40859-W06

ATLAS SCT Scan Comparison - log scale

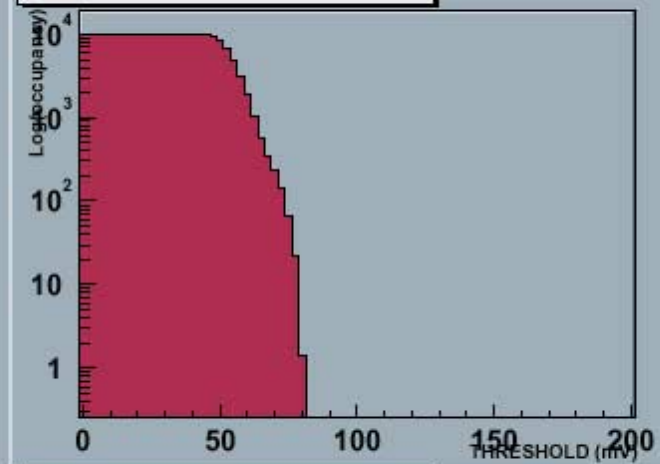
Run 6696 Scan 54 Module 1 Stream 0 (Projection of ch 0 to ch 767) vs

Run 6696 Scan 54 Module 1 Stream 1 (Projection of ch 0 to ch 767)

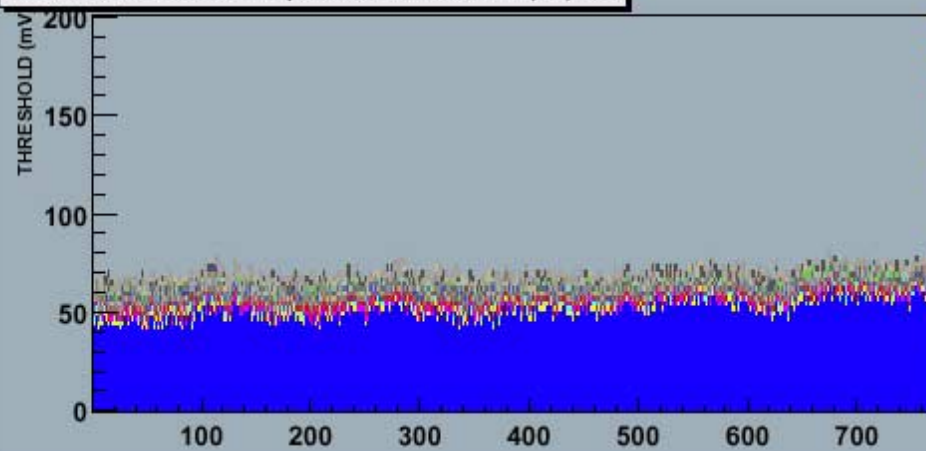
Module 1 20220170200172hDaqIN Stream 0 THRESHOLD (mV) Scan



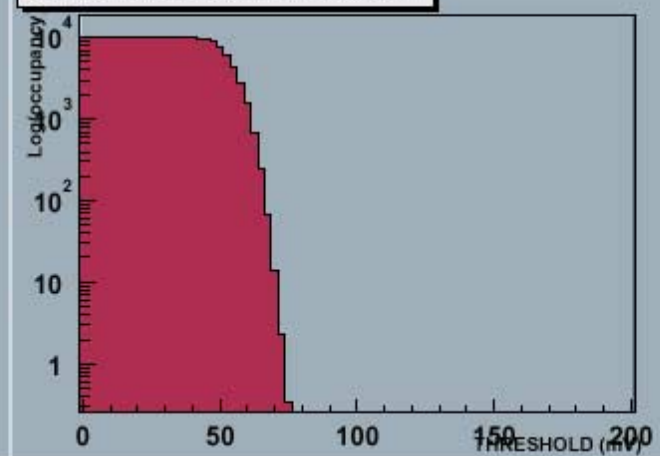
Module 1 20220170200172hDaqIN Stream 0 THRESHOLD (mV) Scan



Module 1 20220170200172hDaqIN Stream 1 THRESHOLD (mV) Scan



Module 1 20220170200172hDaqIN Stream 1 THRESHOLD (mV) Scan



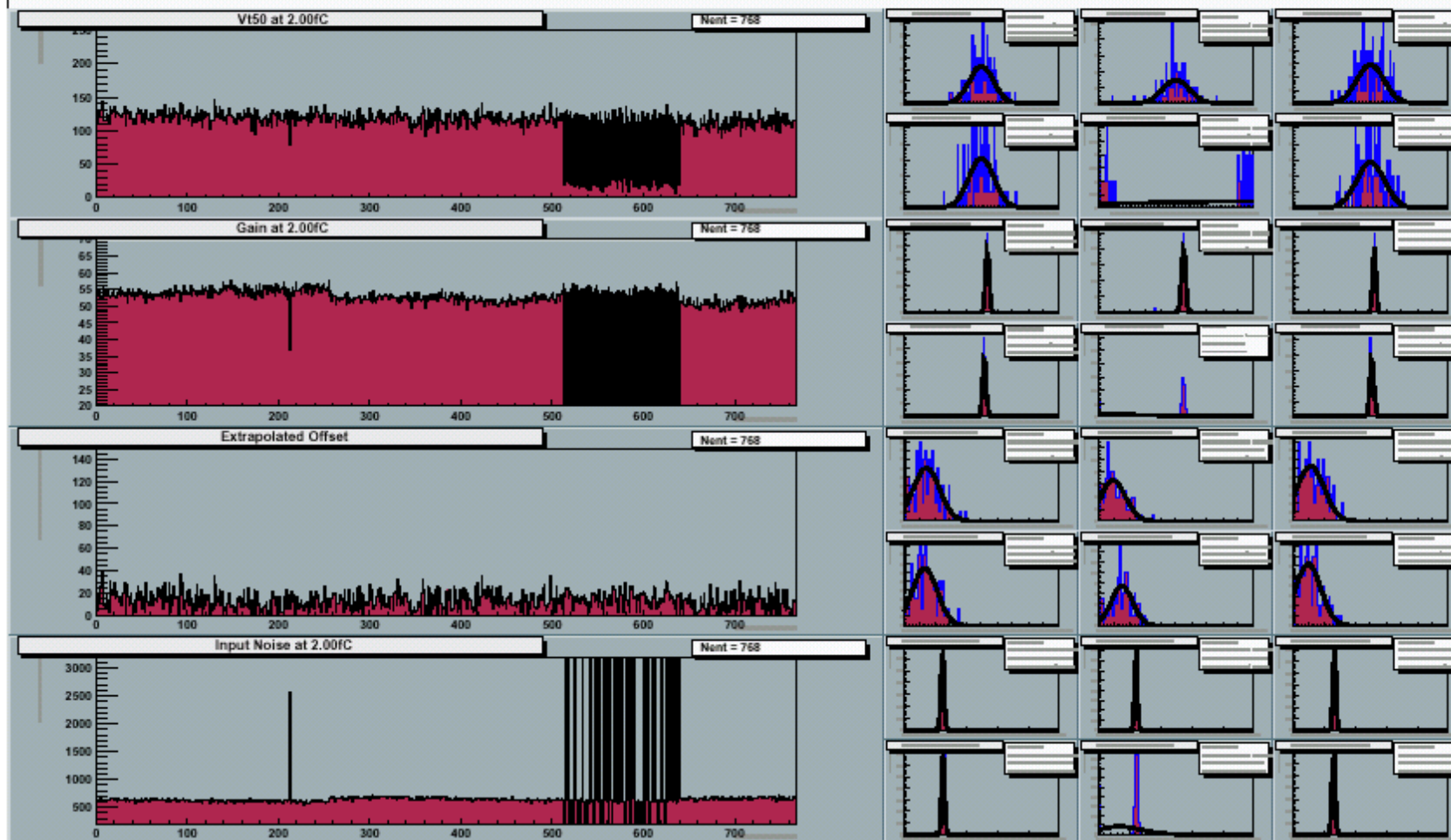
ID=557 : Dead MASTER Chips:M00 M08
:Z40615-W20-233 ,Z40615-W21-4

No plot because two masters are dead

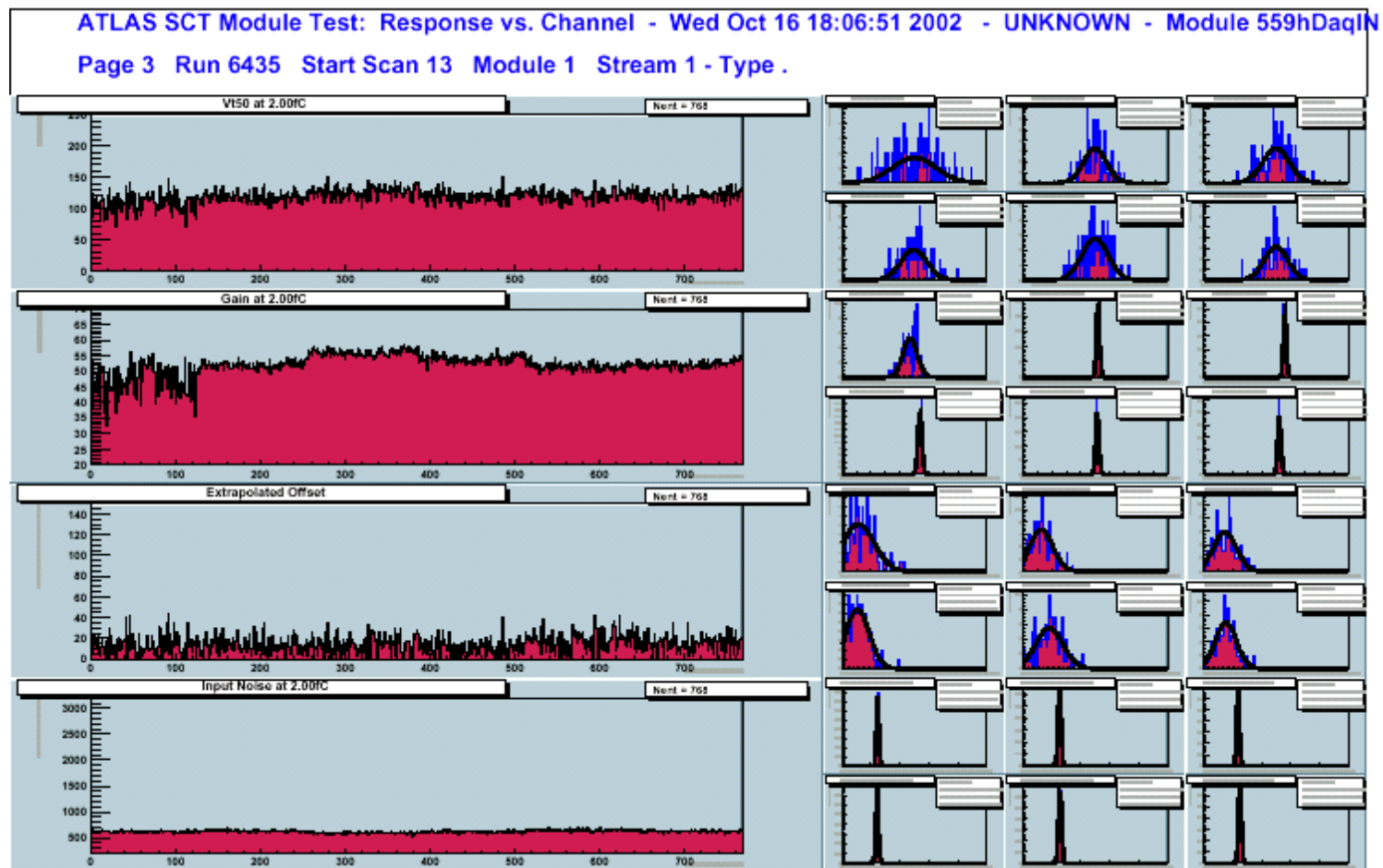
ID=558 : DEAD : S04 : Z40615-W21

ATLAS SCT Module Test: Response vs. Channel - Wed Oct 16 18:06:51 2002 - UNKNOWN - Module 558hDaqIN

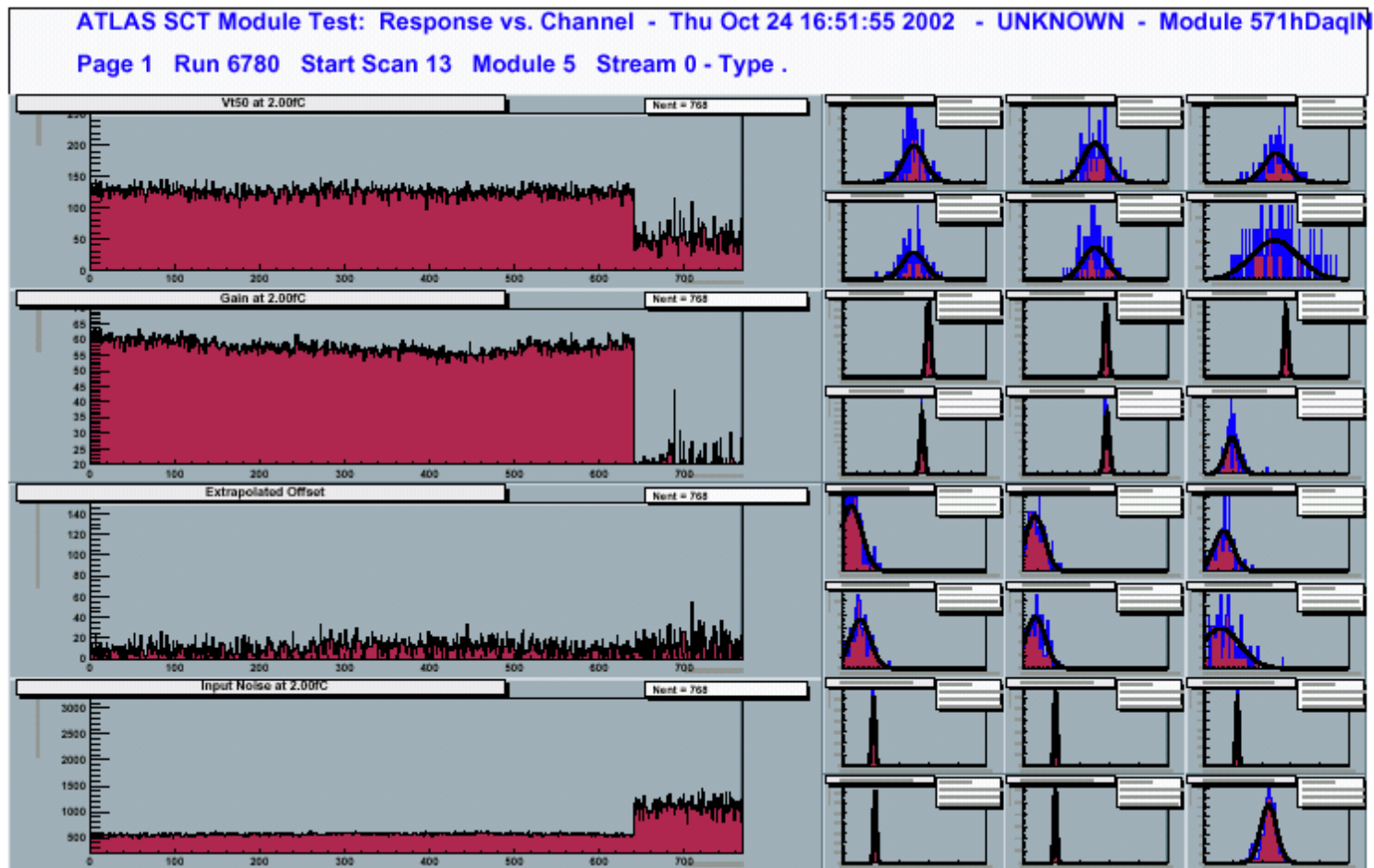
Page 1 Run 6435 Start Scan 13 Module 0 Stream 0 - Type .



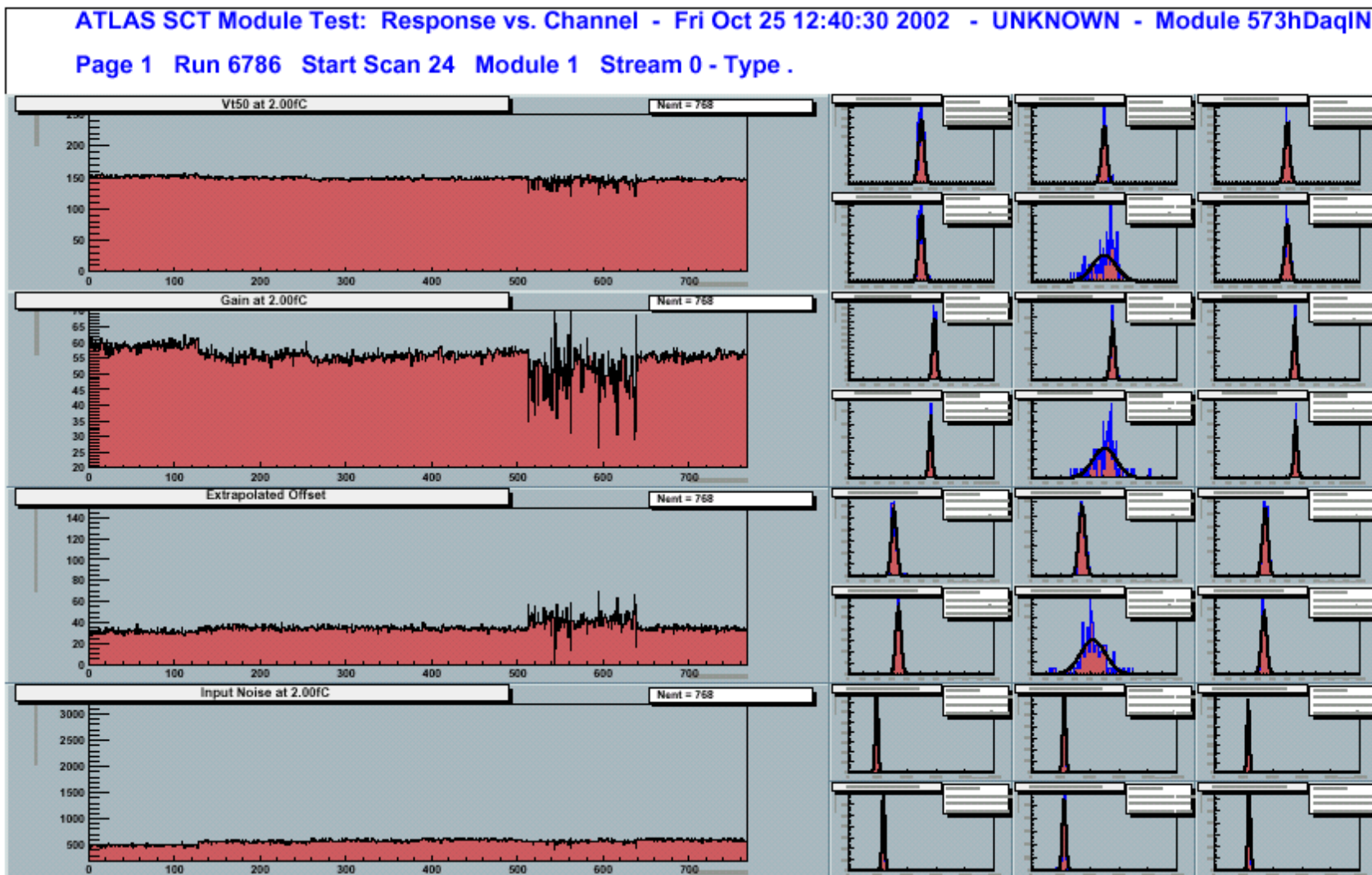
ID=559 : Large Gain Spread :M08 : M08:Z40617-W02-116



ID = 571 : Large Gain Spread (Dead?):E05:Z40617-W18-14



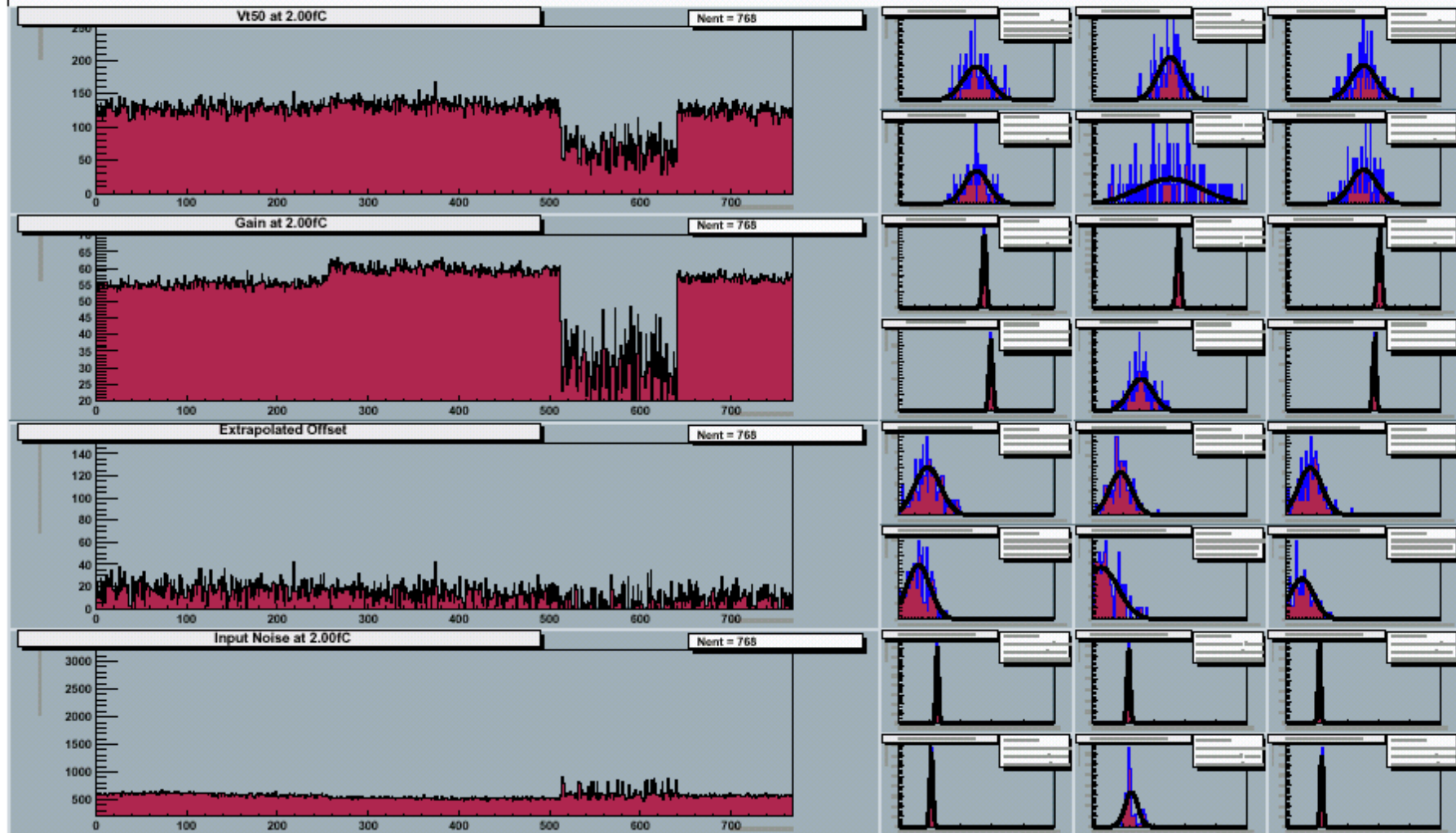
ID = 573 : Large Gain Spread : S04:Z40617-W18-143



ID = 577 : Large Gain Spread (Dead?):S04:Z40617-W19-177

ATLAS SCT Module Test: Response vs. Channel - Mon Oct 28 15:33:37 2002 - UNKNOWN - Module 577hDaqIN

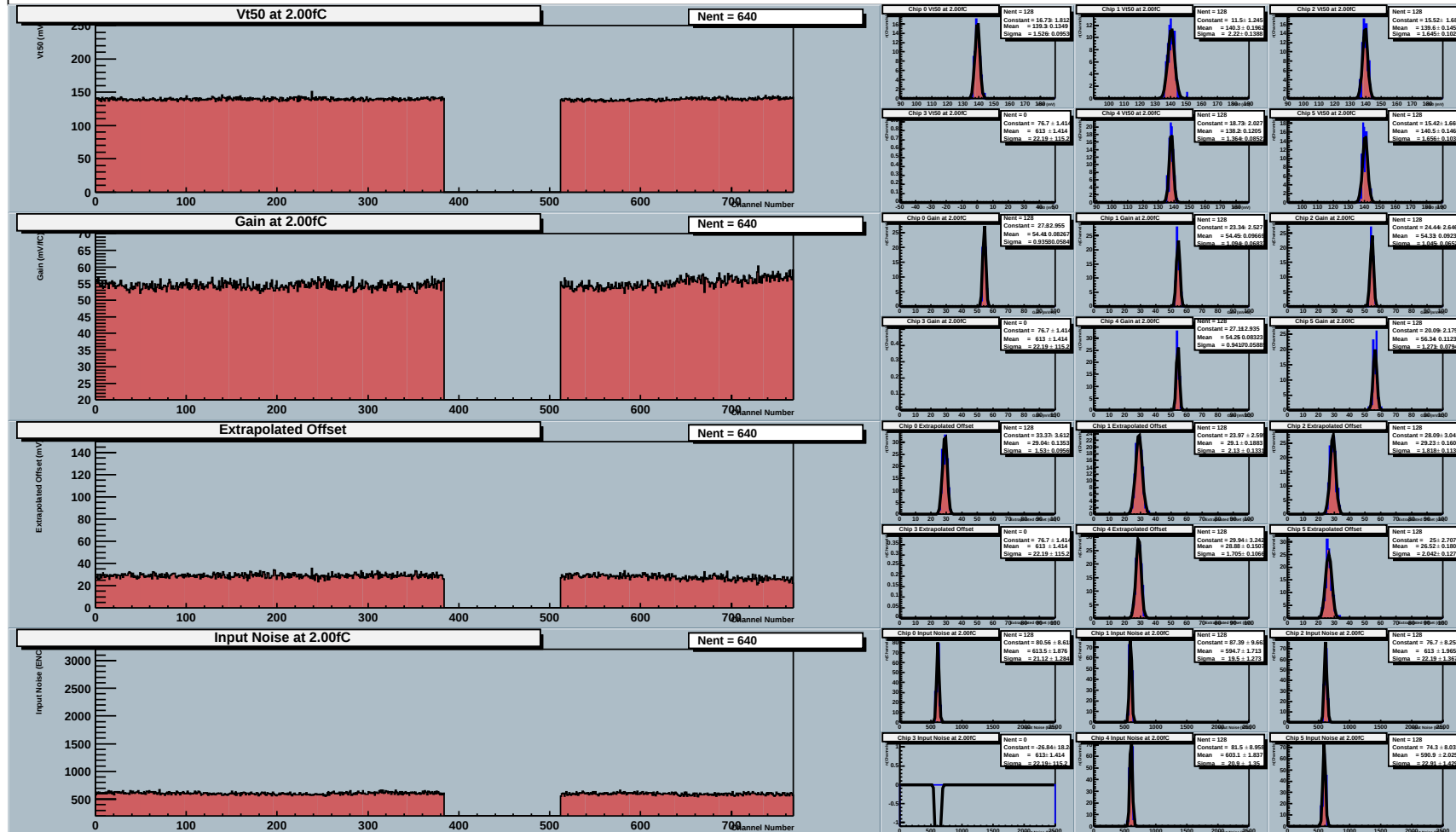
Page 1 Run 6801 Start Scan 13 Module 1 Stream 0 - Type .



ID = 585 Dead:S11:Z40615-W22-232

ATLAS SCT Module Test: Response vs. Channel - Thu Nov 14 10:35:26 2002 - UNKNOWN - Module 6000000000058

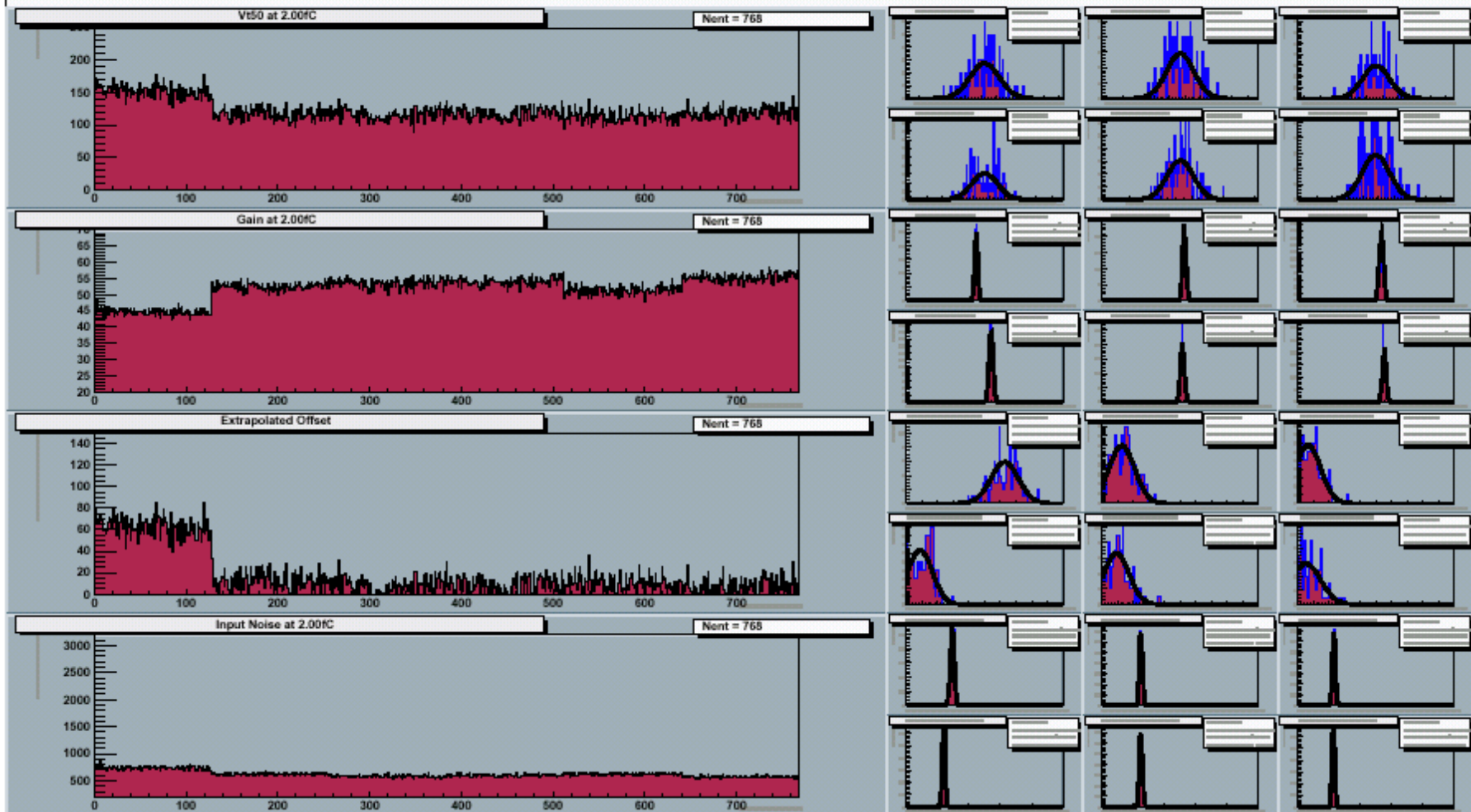
Page 3 Run 6876 Start Scan 24 Module 2 Stream 1 - Type .



ID = 590 High Offset: M08 :Z40615-W23-145

ATLAS SCT Module Test: Response vs. Channel - Tue Oct 29 11:46:58 2002 - UNKNOWN - Module 590hDaqIN

Page 3 Run 6502 Start Scan 13 Module 4 Stream 1 - Type .



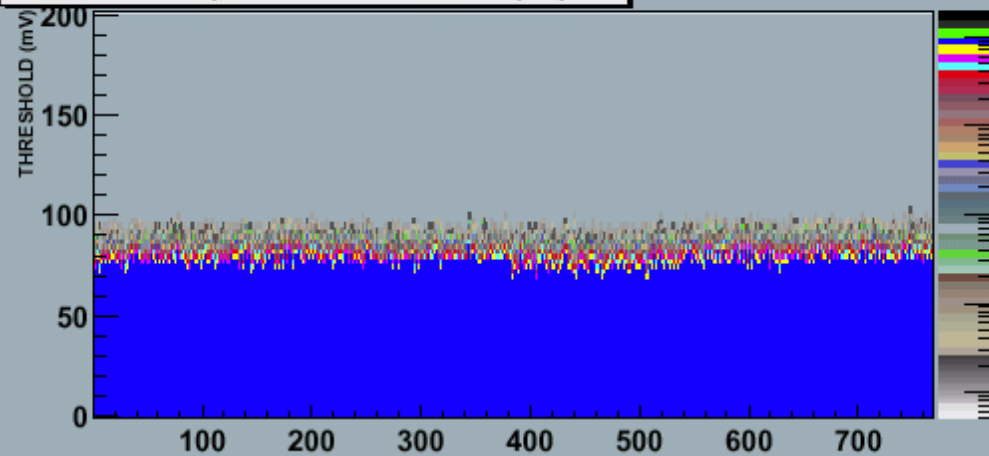
ID = 590 High Offset: M08 :Z40615-W23-145

ATLAS SCT Scan Comparison - log scale

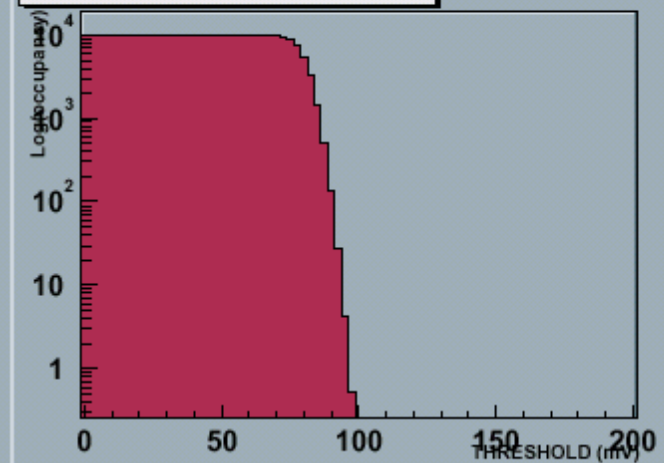
Run 6502 Scan 28 Module 4 Stream 0 (Projection of ch 0 to ch 767) vs

Run 6502 Scan 28 Module 4 Stream 1 (Projection of ch 0 to ch 767)

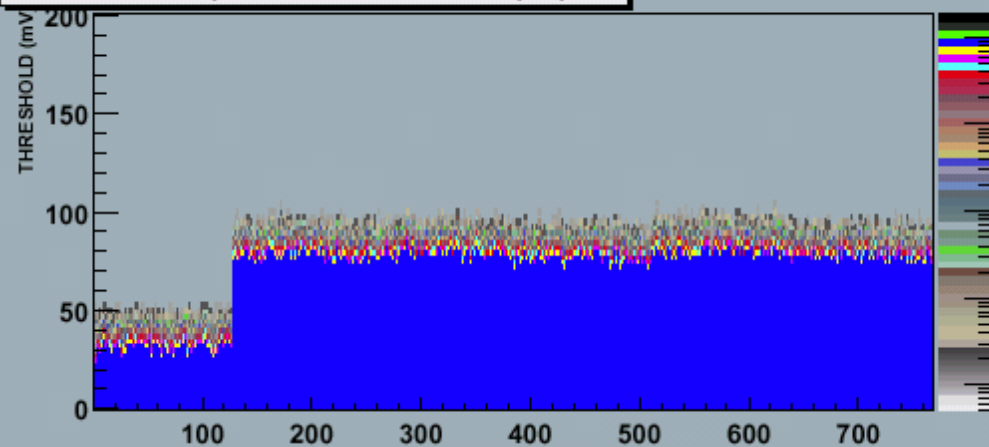
Module 4 590hDaqIN Stream 0 THRESHOLD (mV) Scan



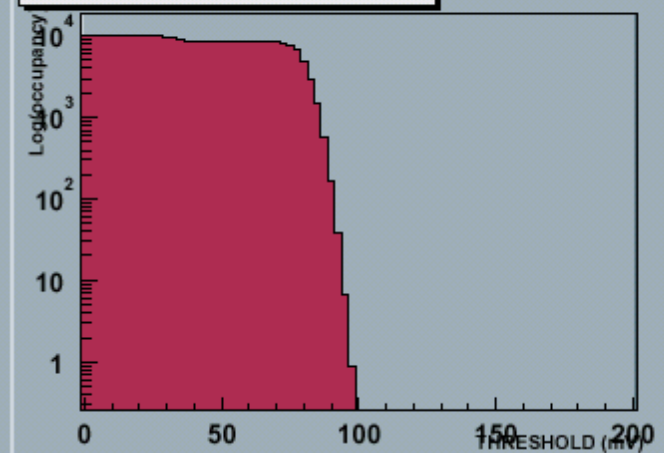
Module 4 590hDaqIN Stream 0 THRESHOLD (mV) Scan



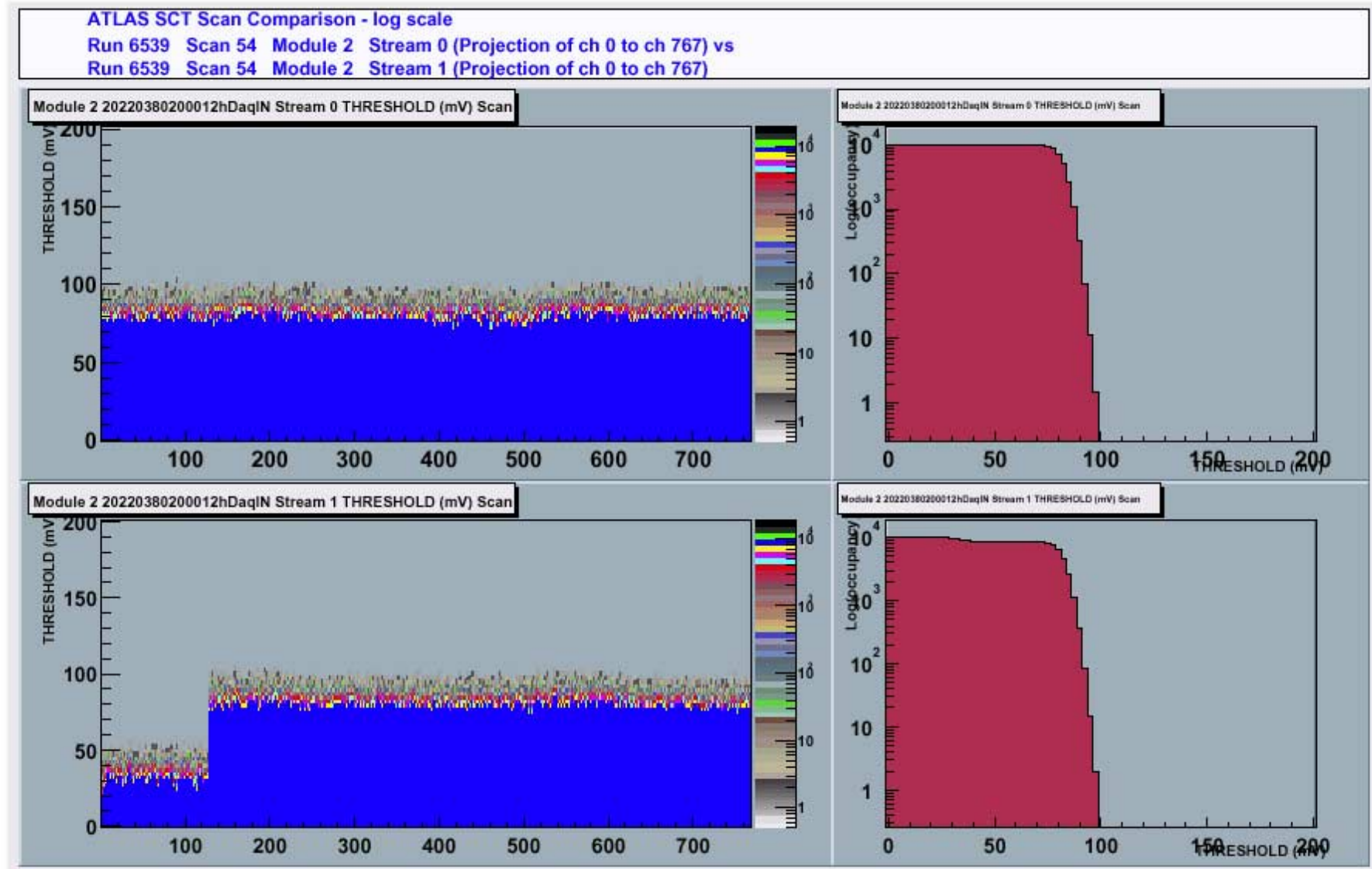
Module 4 590hDaqIN Stream 1 THRESHOLD (mV) Scan



Module 4 590hDaqIN Stream 1 THRESHOLD (mV) Scan



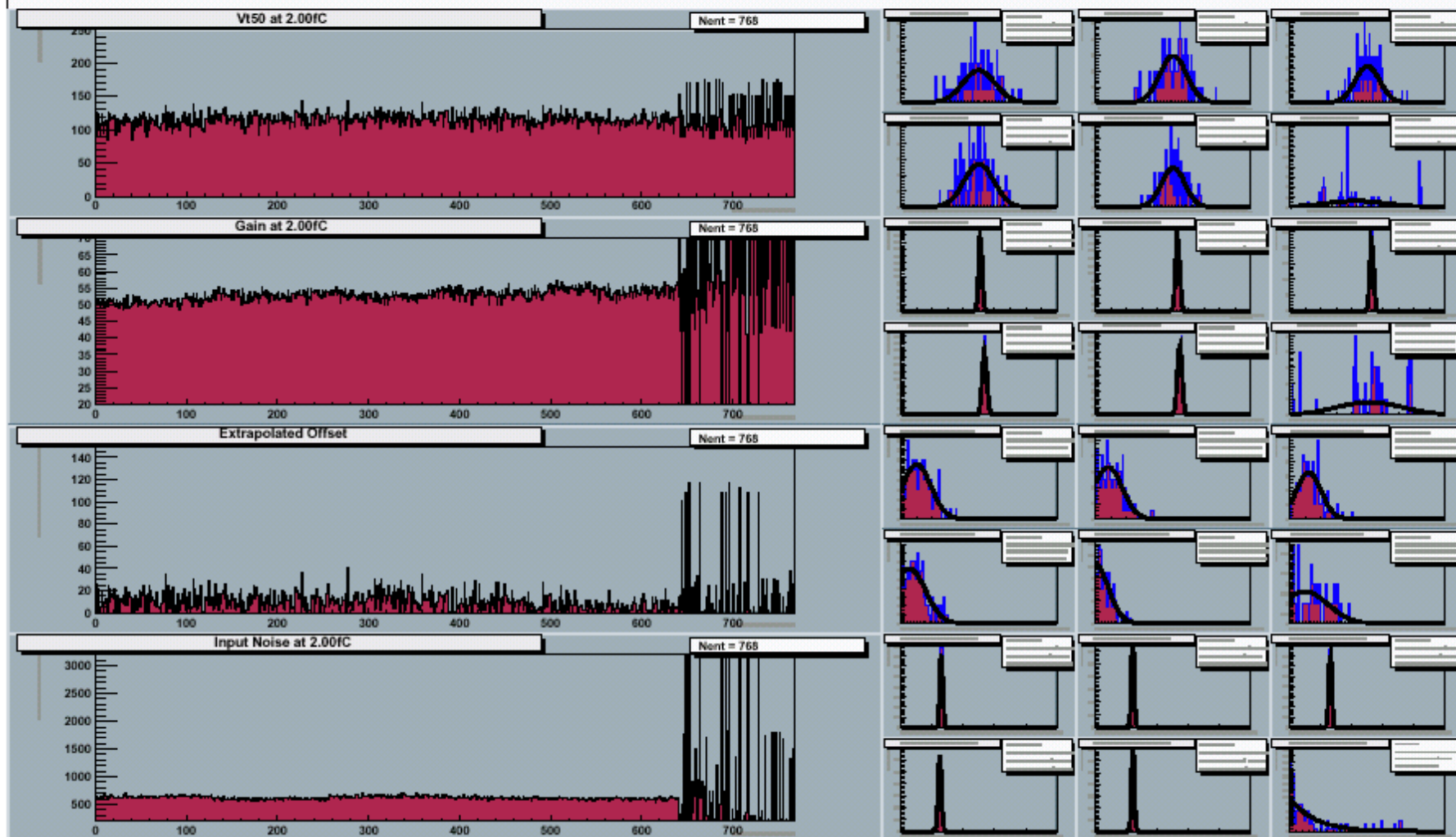
ID = 591 High Offset :M08 :Z40615-W23-193



ID = 639 : Pipeline Dead :E13 : Z40615-W21

ATLAS SCT Module Test: Response vs. Channel - Mon Dec 02 17:30:24 2002 - UNKNOWN - Module 600000000

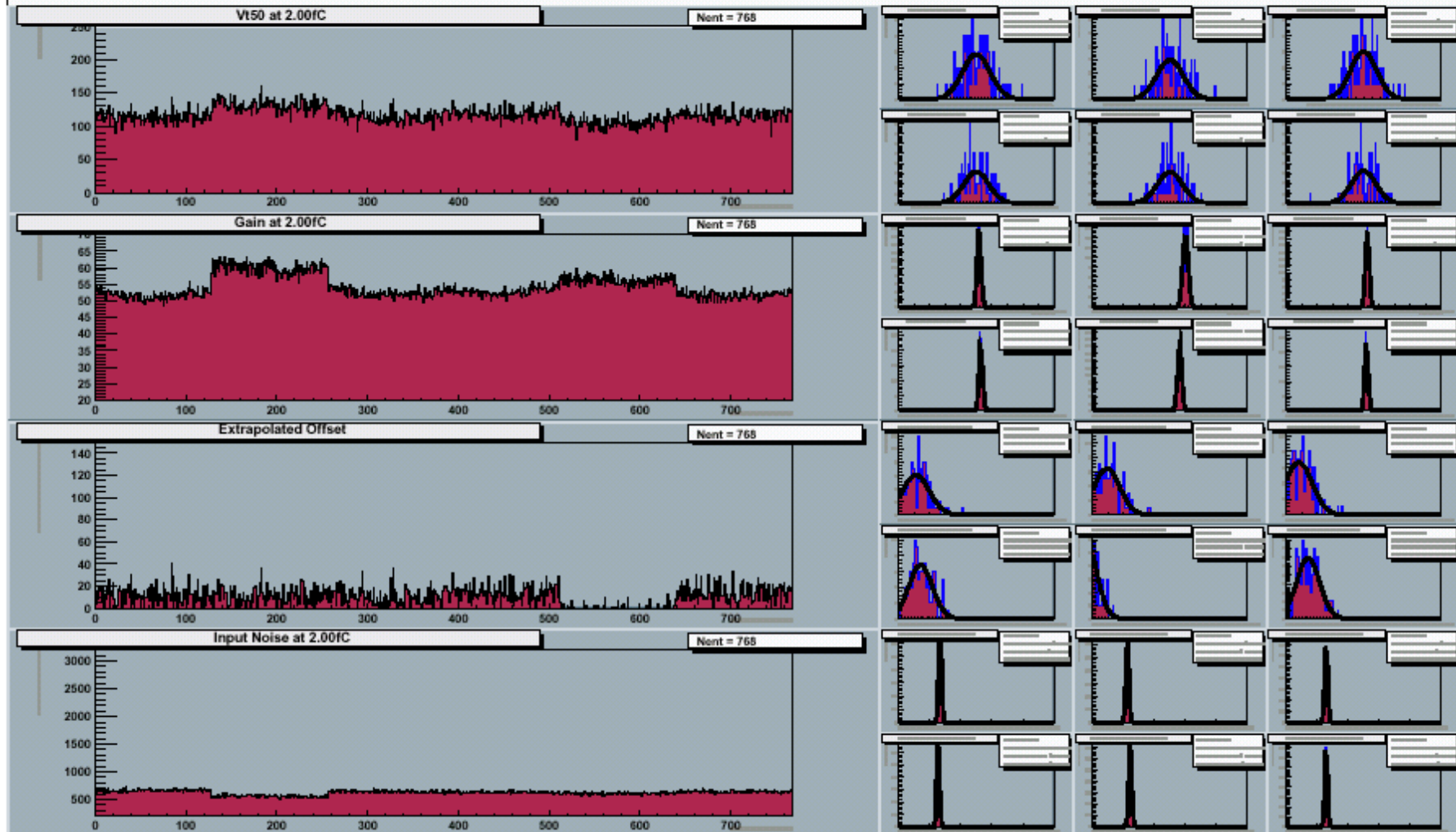
Page 3 Run 4565 Start Scan 13 Module 0 Stream 1 - Type .



ID = 642 : Negative Offset @15C: S12:Z40860-W04-198

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 08 16:24:49 2002 - UNKNOWN - Module 600000000064

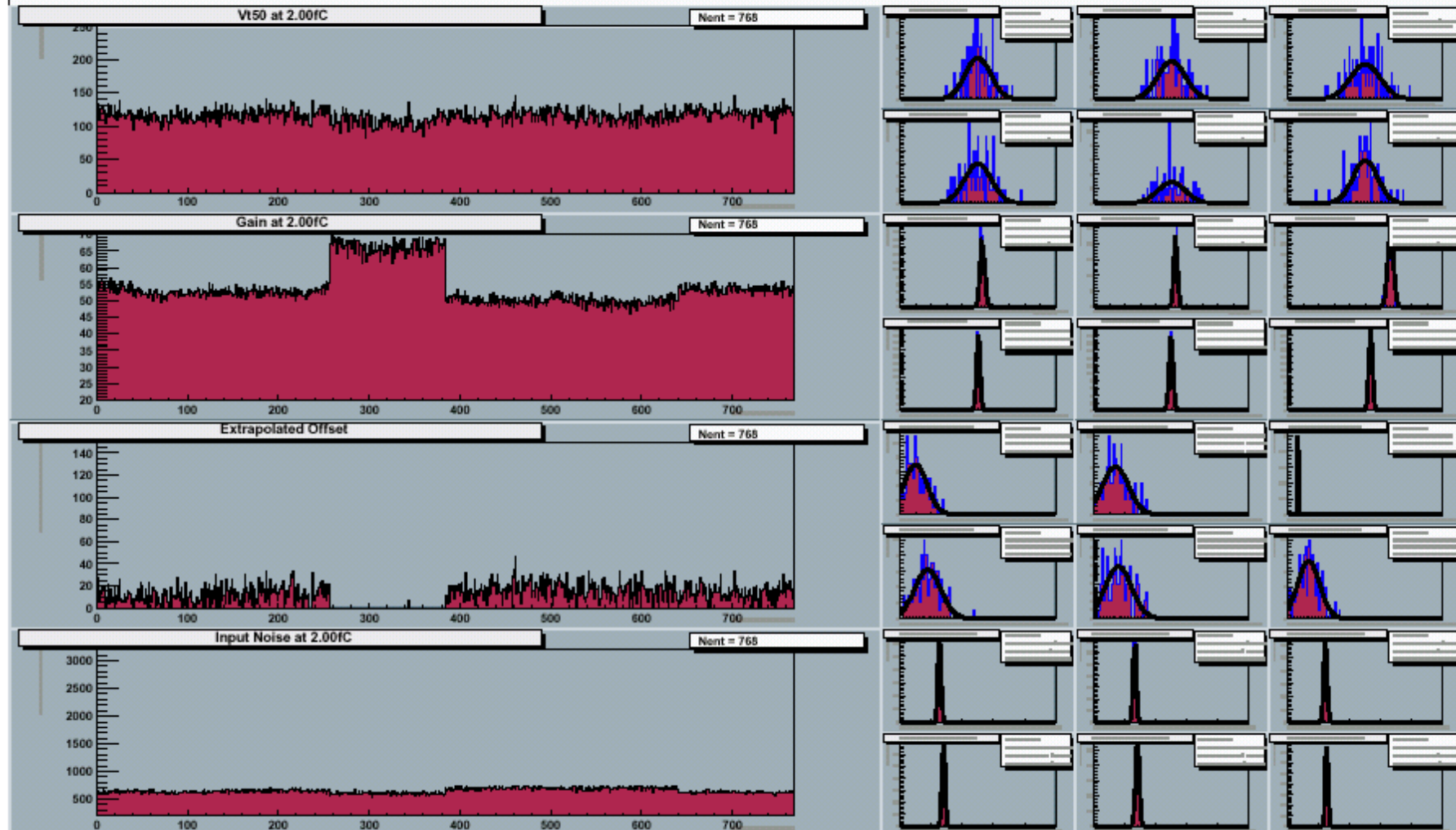
Page 3 Run 6854 Start Scan 13 Module 3 Stream 1 - Type .



ID = 643 : Negative Offset @15C: S02:Z40860-W04-209

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 08 16:24:49 2002 - UNKNOWN - Module 600000000064

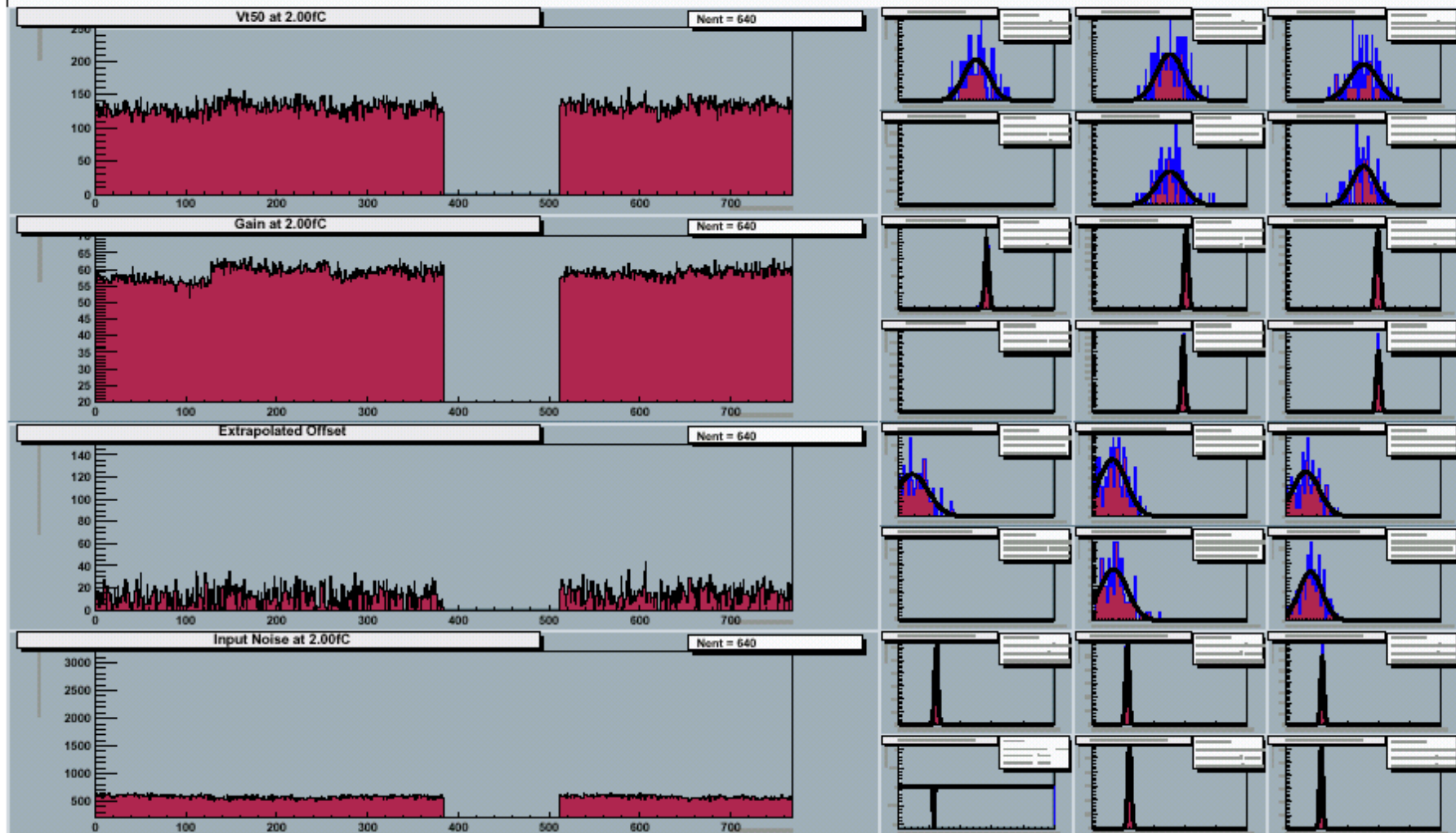
Page 1 Run 6854 Start Scan 13 Module 4 Stream 0 - Type .



ID = 645 : DEAD :S11:Z40860-W08-85

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 15 13:47:50 2002 - UNKNOWN - Module 600000000064

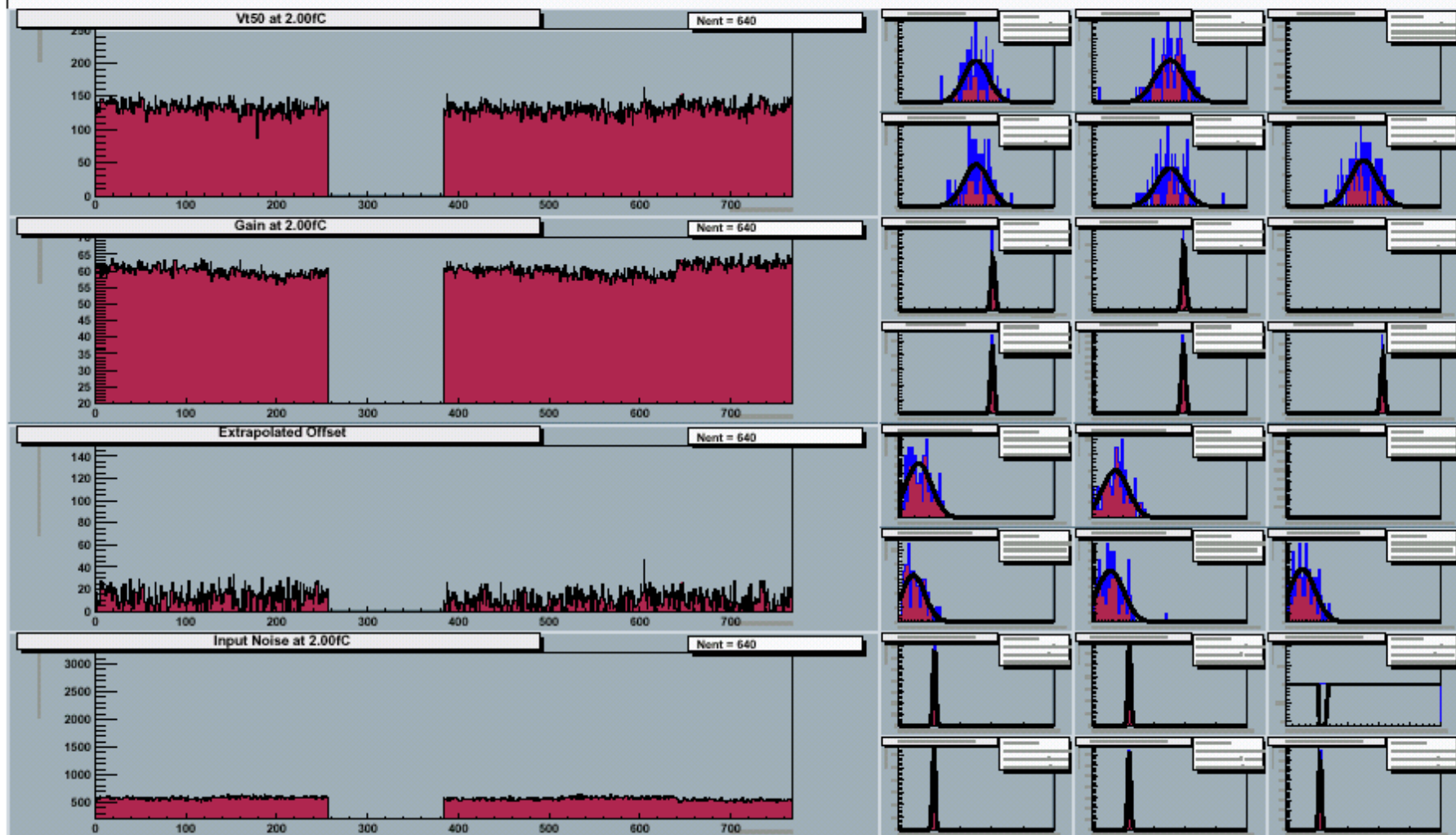
Page 3 Run 6900 Start Scan 13 Module 2 Stream 1 - Type .



ID = 648 : DEAD : S02:Z40860-W08-109

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 15 13:47:50 2002 - UNKNOWN - Module 600000000064

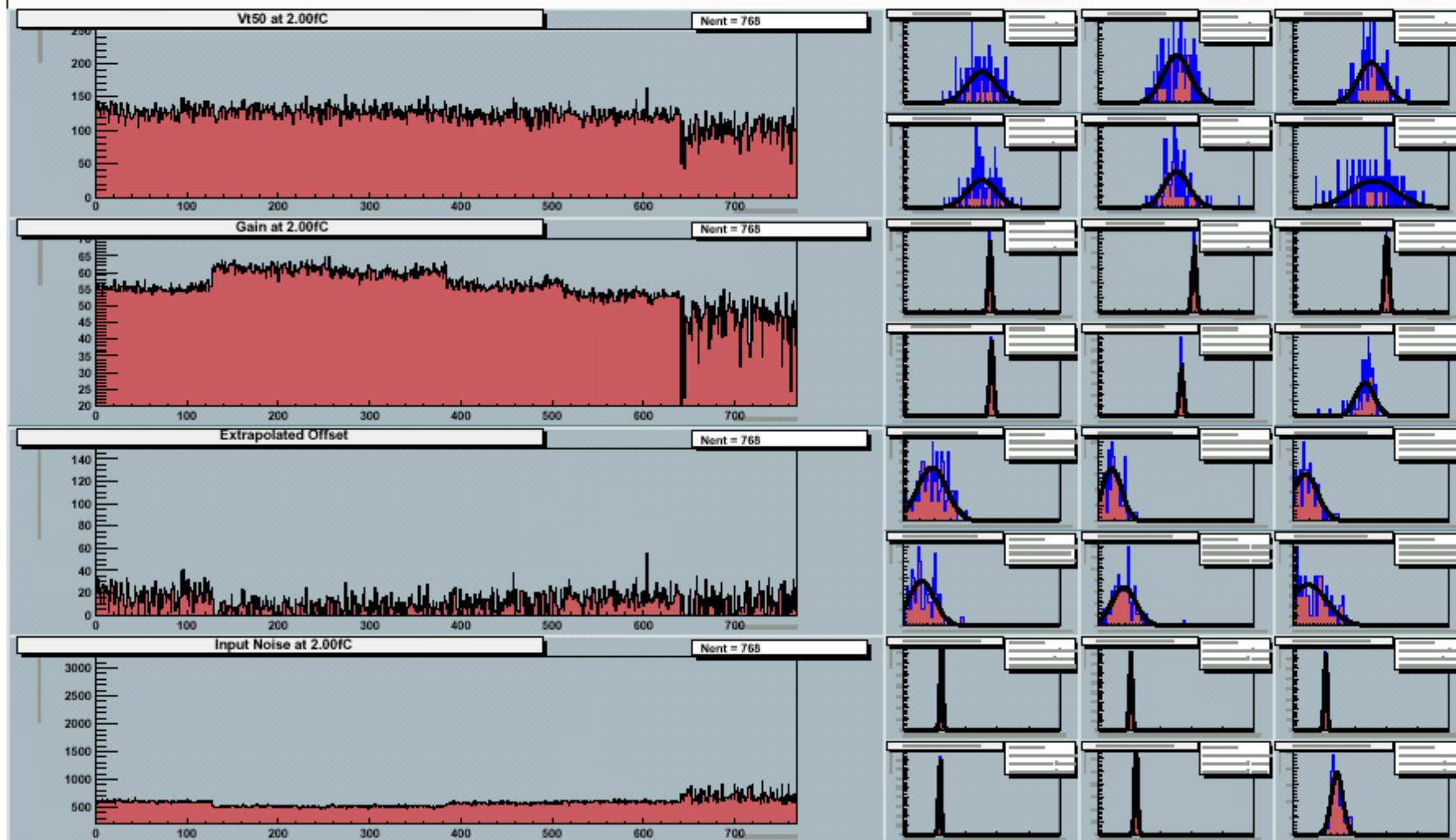
Page 1 Run 6900 Start Scan 13 Module 3 Stream 0 - Type .



ID = 720 : Large Gain Spread @-15C:E05 :Z40617-W21-93

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 29 14:22:01 2002 - UNKNOWN - Module 6000000000:

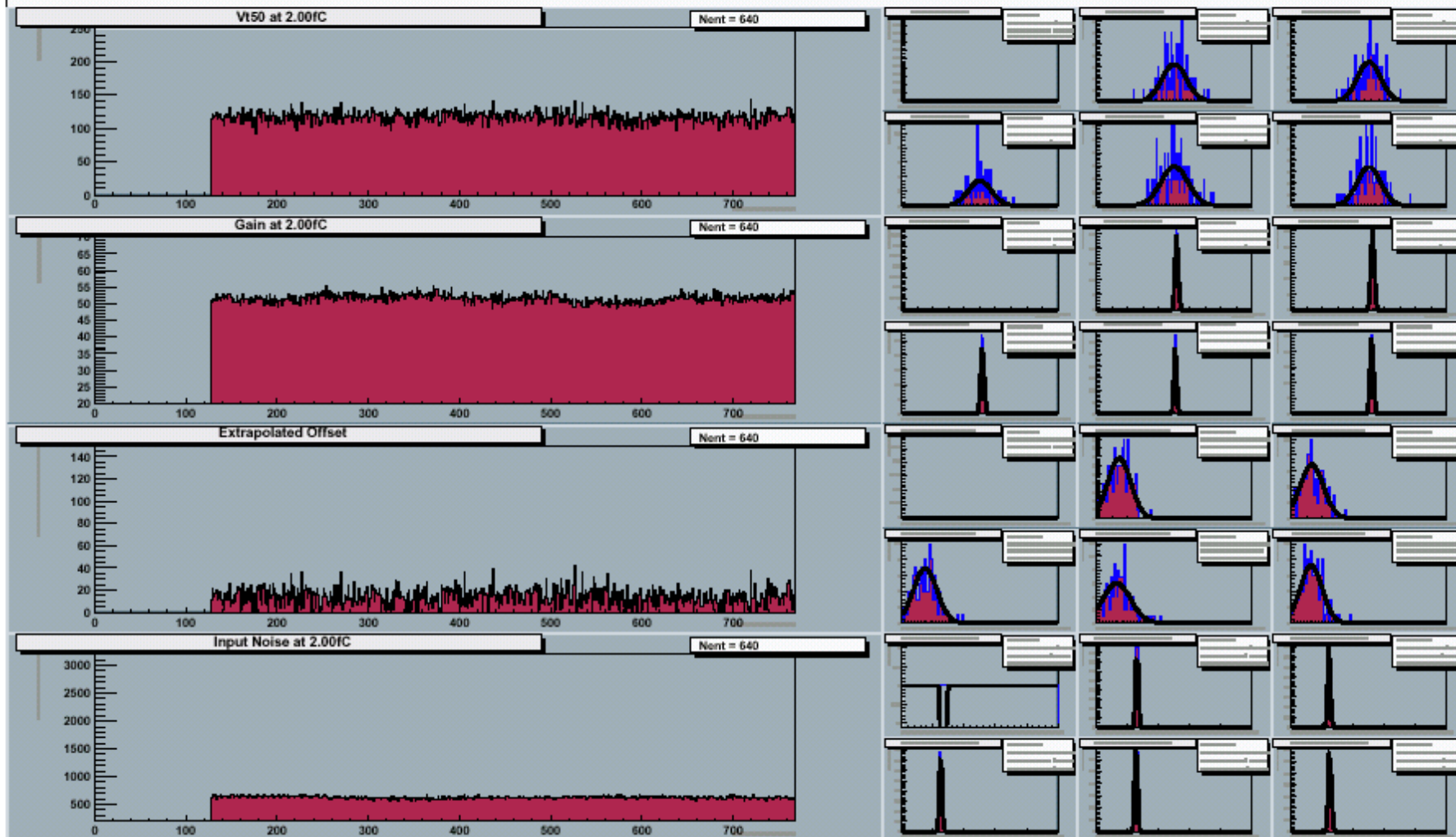
Page 1 Run 6646 Start Scan 13 Module 5 Stream 0 - Type .



ID = 723 : DEAD : M08 : Z40671-W21-251

ATLAS SCT Module Test: Response vs. Channel - Mon Dec 02 18:48:27 2002 - UNKNOWN - Module 600000000

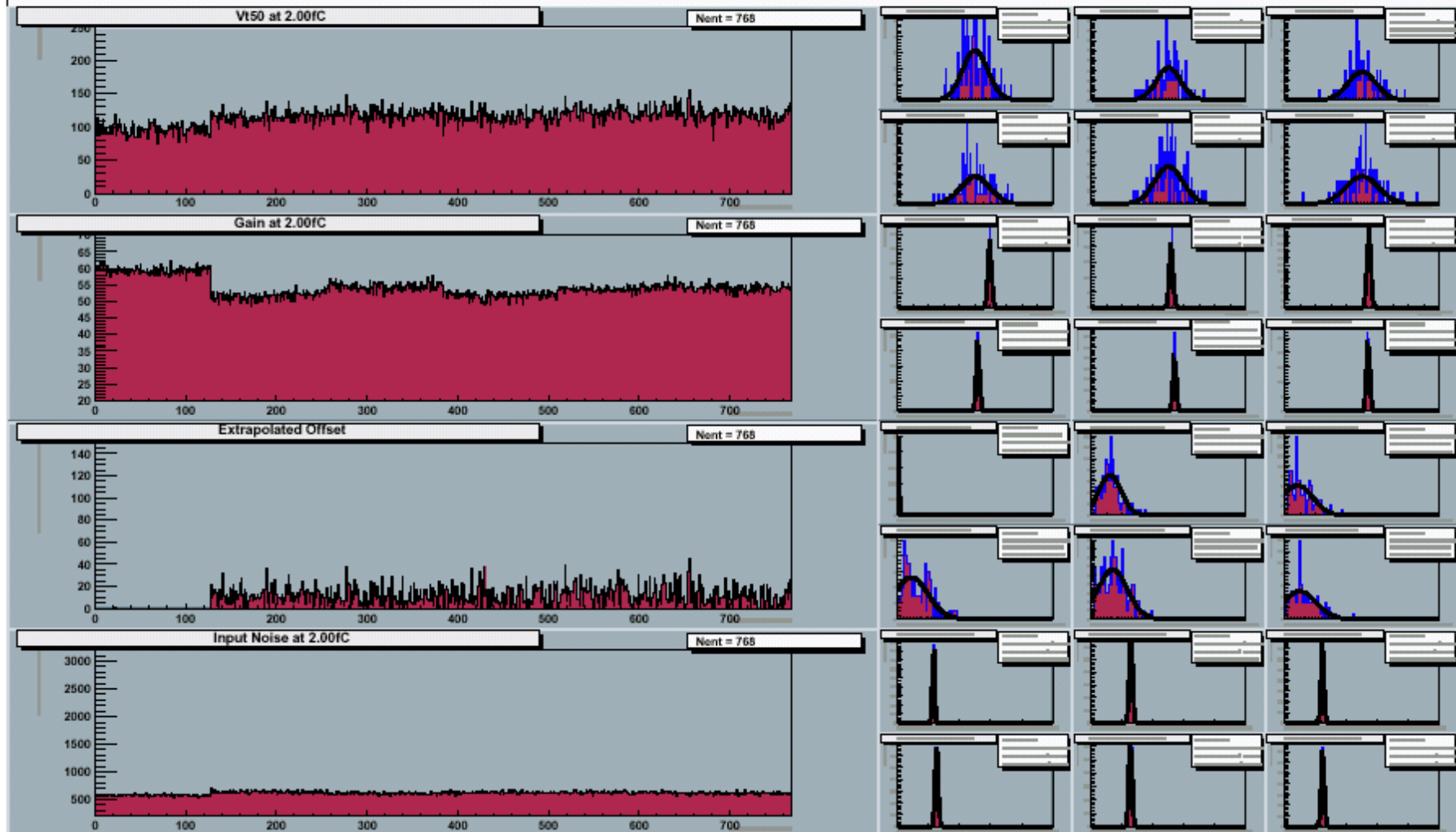
Page 3 Run 4569 Start Scan 13 Module 0 Stream 1 - Type .



ID = 732 : Negative Offset : M00 :Z40671-W04-118

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 29 19:19:42 2002 - UNKNOWN - Module 60000000000

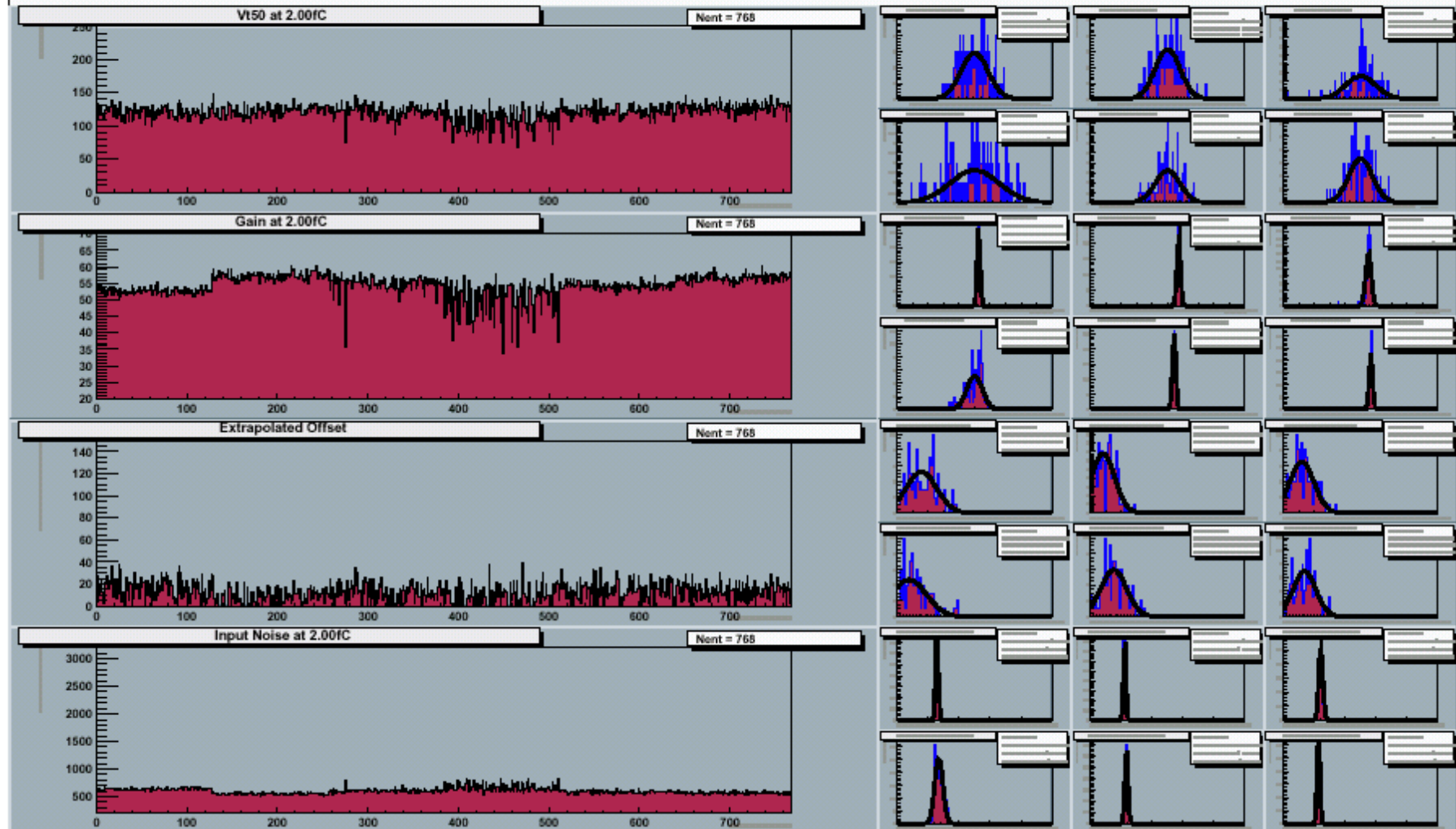
Page 1 Run 6993 Start Scan 13 Module 3 Stream 0 - Type .



ID = 736 : Large Gain Spread @-15C : S11: Z40617-W05-19

ATLAS SCT Module Test: Response vs. Channel - Fri Nov 29 21:38:27 2002 - UNKNOWN - Module 6000000000

Page 3 Run 6994 Start Scan 13 Module 1 Stream 1 - Type .



Summary of defective ASICs

Date range 25/9/2002 26/11/2002

Number of hybrids 88

Number of chips 1056

Large Gain Spread 9

Dead 4

Negative Offset 3

High Offset 2

Abnormal Cal line 1

Pipeline dead 1

Total defective chips 20

Defective chip rate 0.0189394

Total defective hybrids 19

Defective hybrid rate 0.2159091