

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4897 - L2 Version 3  
Chandra X-Ray Center

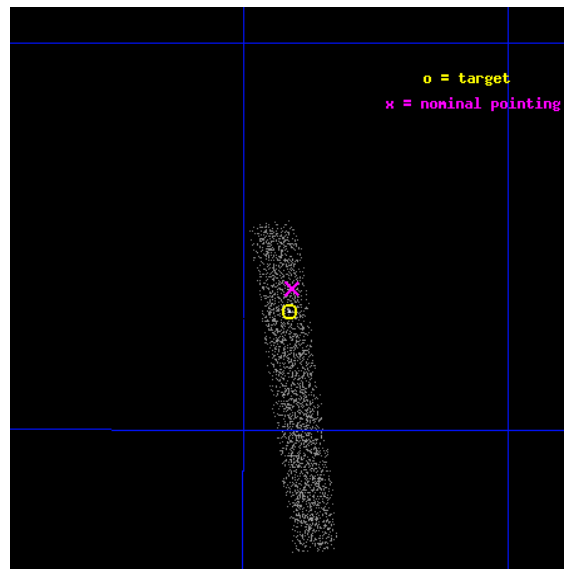
L2 Processing Date : Nov 9 2012

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# 1 Front

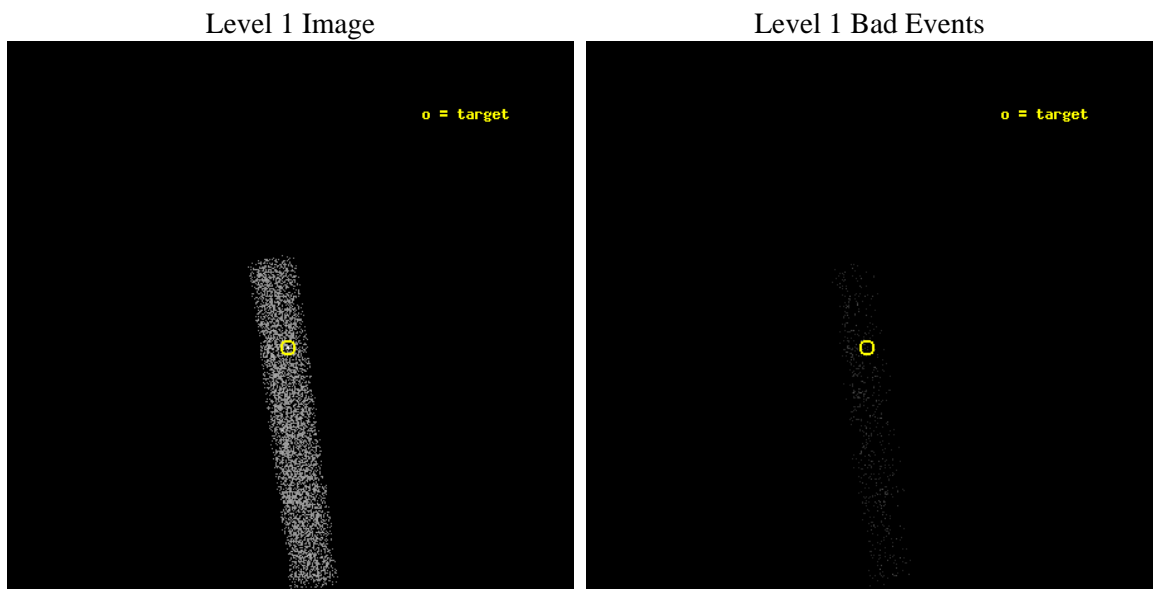
seq_num	700979	Sequence number
obs_id	4897	Observation id
title	Continuing a Flux-limited Survey for X-ray Emission from Radio Jets	&#160
observer	Dr. Herman Marshall	Principal investigator
object	0820+225	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.853333	Observer's specified target RA [deg]
dec_targ	22.38425	Observer's specified target Dec [deg]
ra_nom	125.85203592665	Nominal RA [deg]
dec_nom	22.393998443296	Nominal Dec [deg]
roll_nom	82.475142011449	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6193.600092262	Sum of GTIs [s]
livetime	5617.2683586632	Livetime [s]
ontime7	6193.600092262	Sum of GTIs [s]
l2events	3080	Number of level 2 events



## 2 OBI

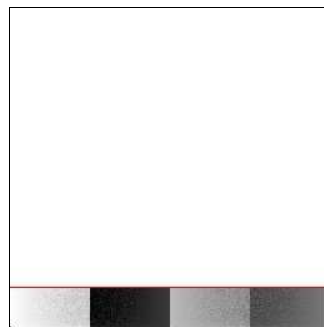
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6193.600092262	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	6193.600092262	Sum of GTIs [s]
date	2012-11-09T15:25:43	Date and time of file creation	l1events	8481	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	8481
rejected events	5307
rejected %	62%

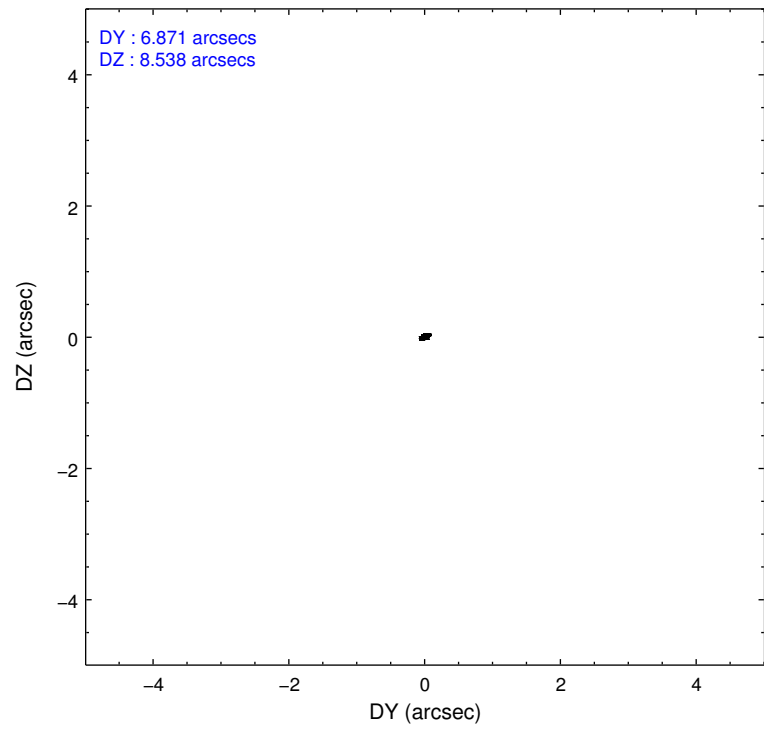
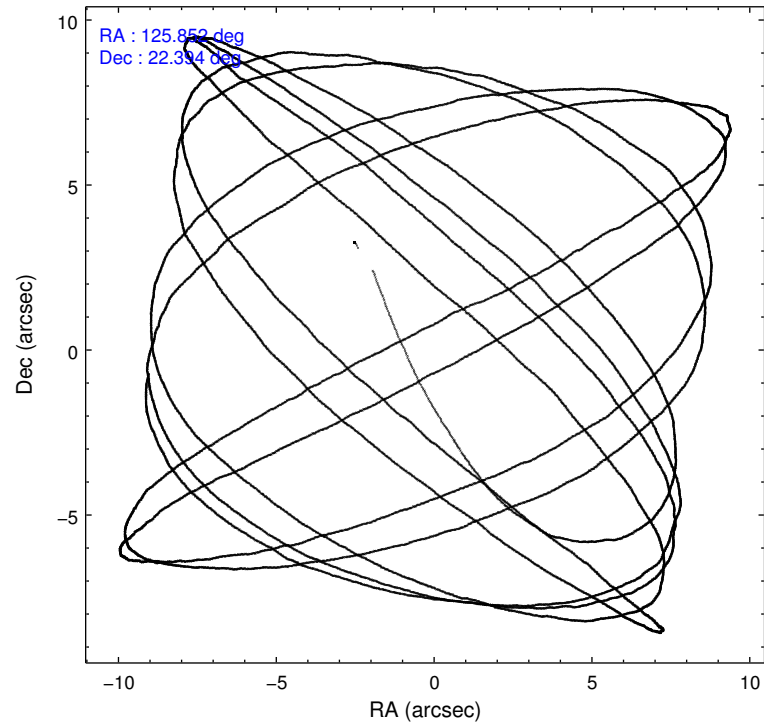
	<b>ccd 7</b>
grade 0 events	384
	4%
grade 1 events	13
	0%
grade 2 events	725
	8%
grade 3 events	476
	5%
grade 4 events	497
	5%
grade 5 events	759
	8%
grade 6 events	1782
	21%
grade 7 events	3845
	45%

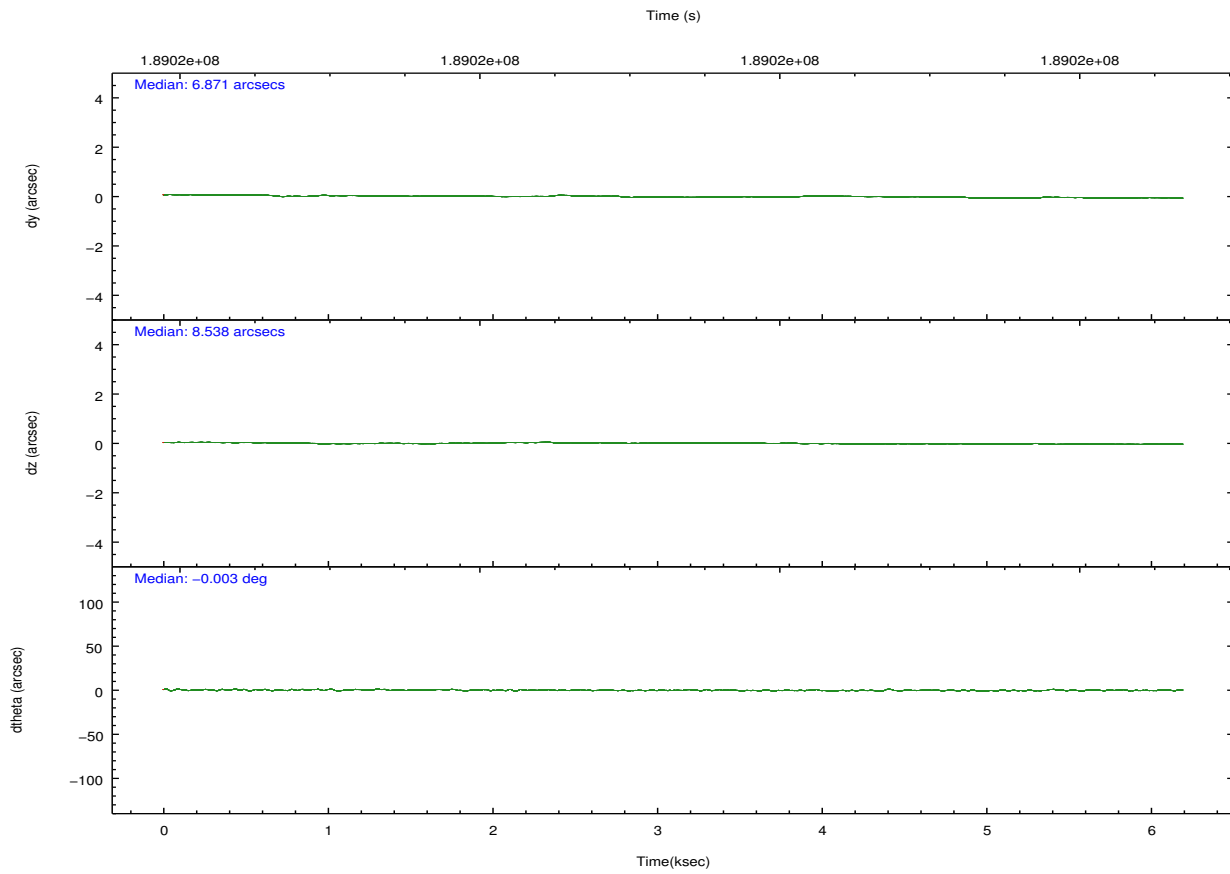
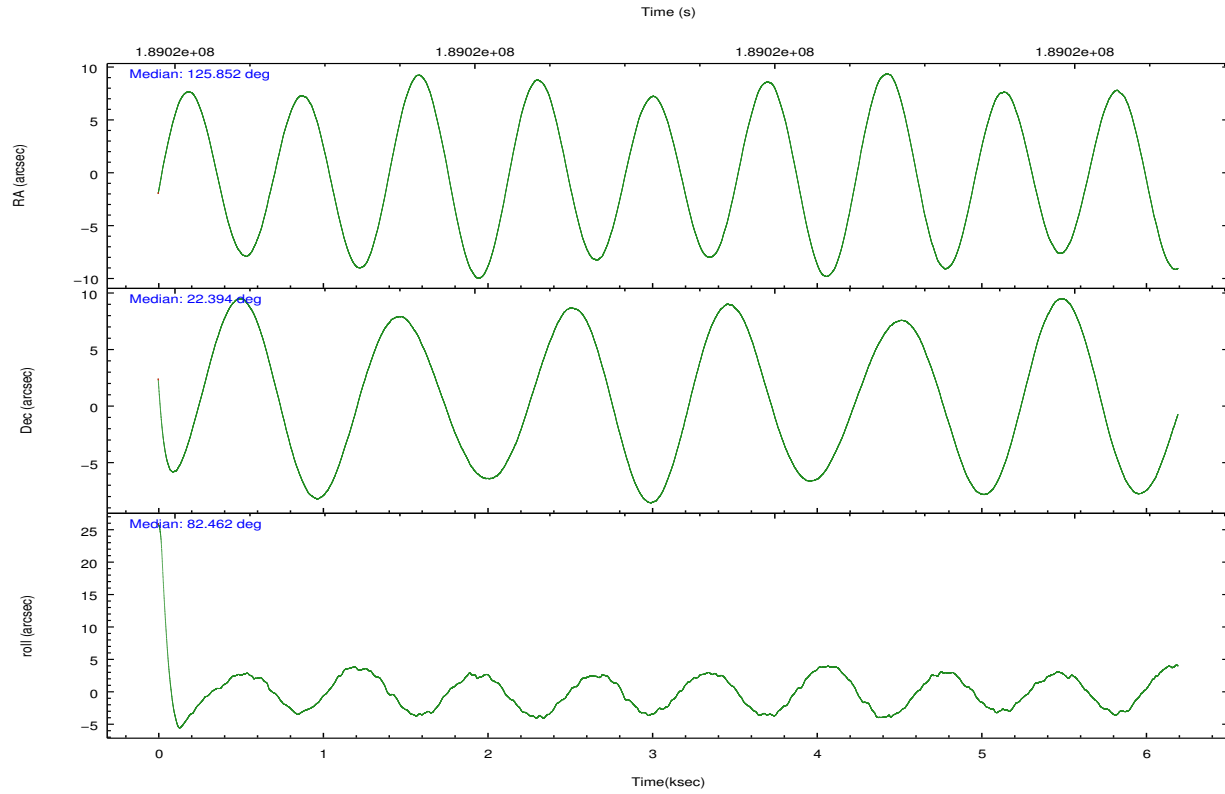


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	125.863664	125.852035926648	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	22.369003	22.39399844329618	Subarray start row	1	1
[deg] Pointing Roll	82.314018	82.47514201144939	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-178.632523	-178.6370735452349			
[mm] SIM translation stage offset	-11.5	-11.49544903777291			
[s] Observation start time (MET)	189018383.184000	189016679.88553			
Observation start date	2003-12-28T17:05:19	2003-12-28T16:37:59			
[s] Observation end time (MET)	189024383.184000	189025044.91089			
Observation end date	2003-12-28T18:45:19	2003-12-28T18:57:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect



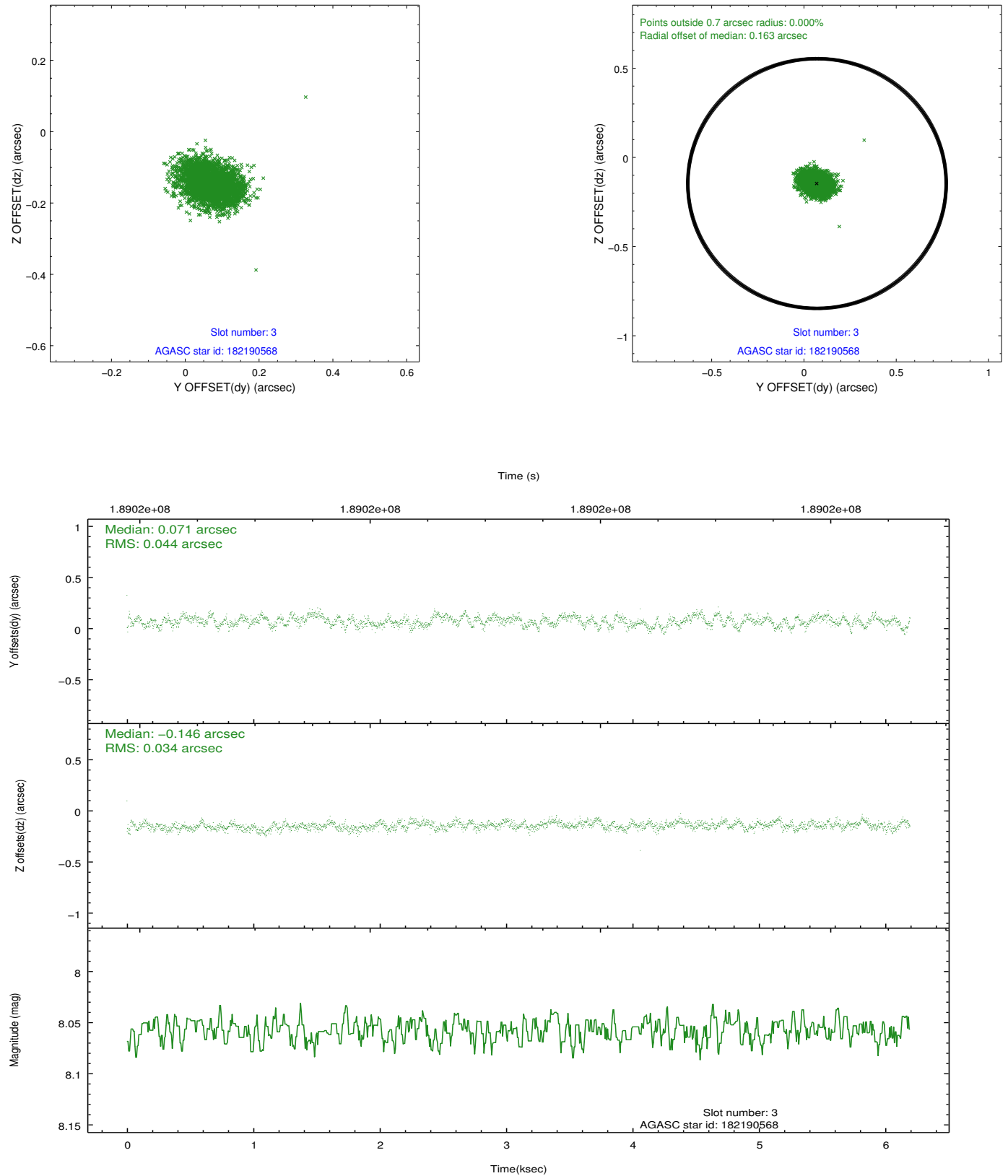


### Slot Statistics

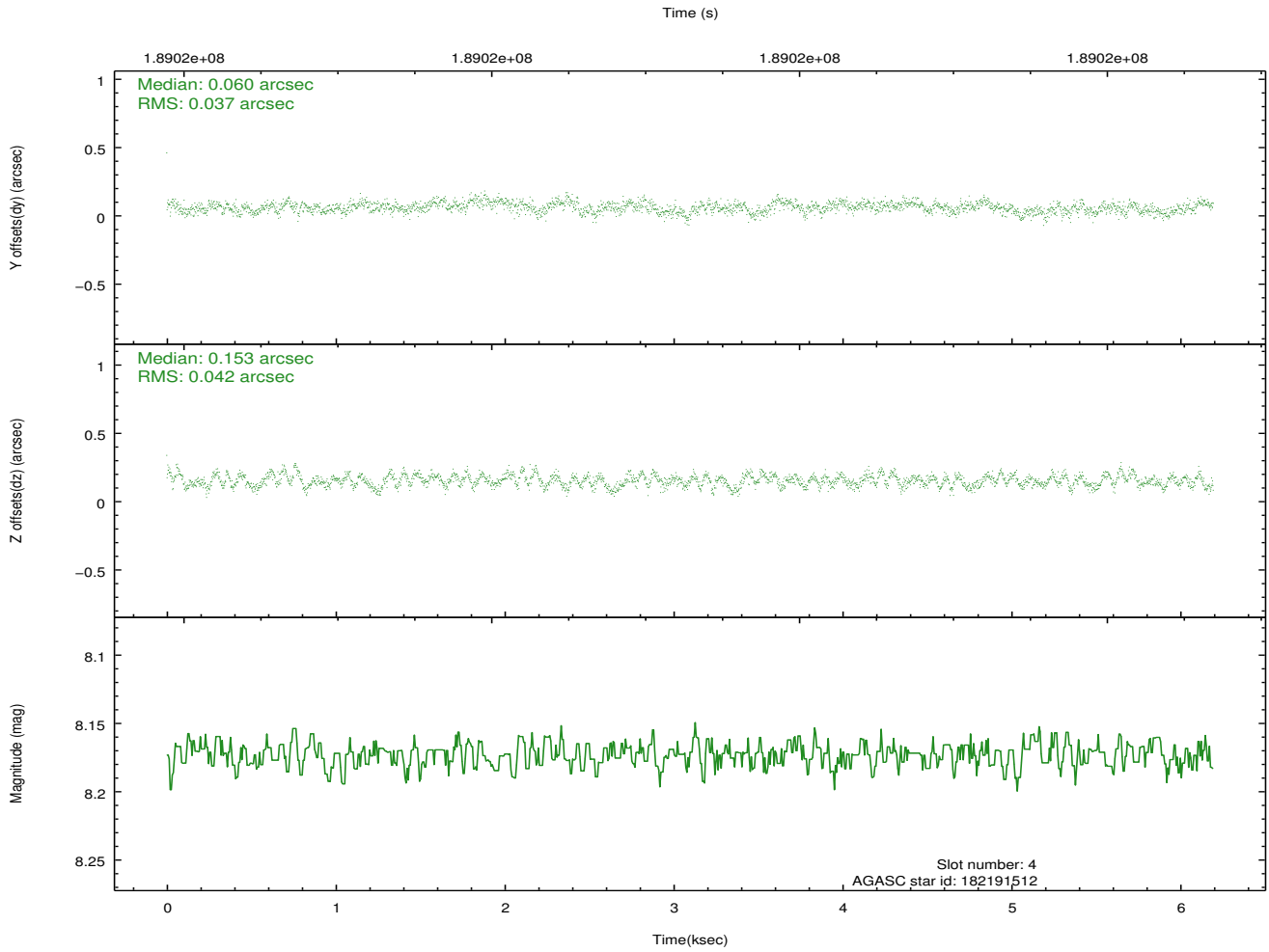
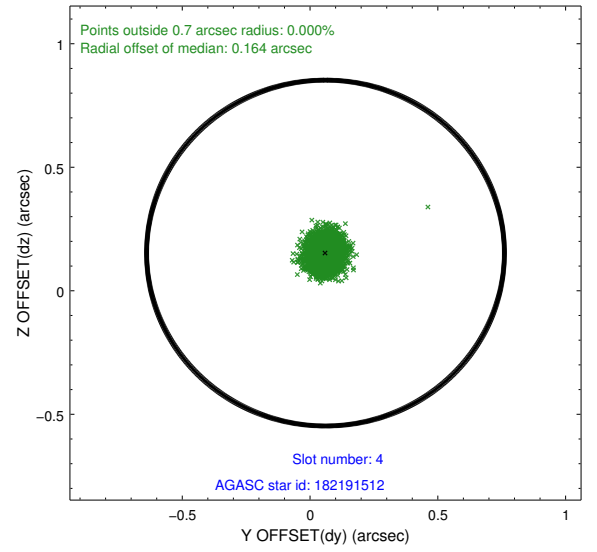
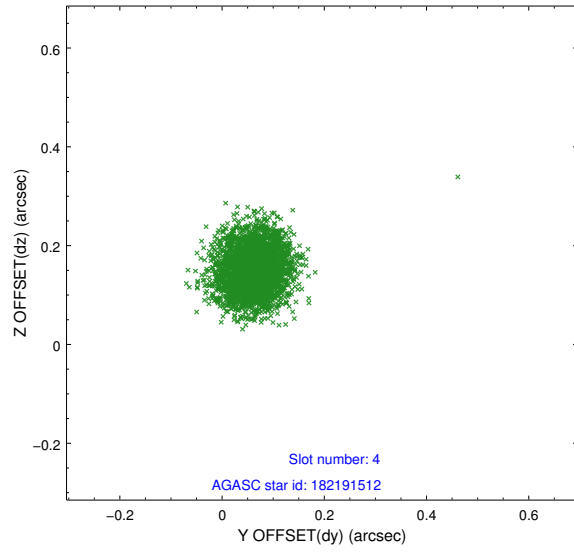
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1512	0.111	0.083	0.014	0.022	0.000000	0.000000	937.28	-1961.97
1	FID	ACIS-S-5	7.23	1512	-0.107	0.129	0.013	0.023	0.000000	0.000000	-1811.29	-65.39
2	FID	ACIS-S-6	7.43	1512	-0.027	-0.202	0.011	0.018	0.000000	0.000000	401.81	579.20
3	GUIDE	182190568	8.06	3023	0.071	-0.146	0.060	0.093	125.270475	22.031708	-1464.50	1799.93
4	GUIDE	182191512	8.17	3022	0.060	0.153	0.059	0.094	125.905406	21.821214	-1935.79	-401.24
5	GUIDE	182204184	7.18	3023	-0.115	-0.108	0.054	0.089	125.367252	21.909332	-1859.91	1422.01
6	GUIDE	182324672	8.44	3023	-0.075	0.004	0.064	0.101	126.330833	22.353388	154.57	-1547.69
7	GUIDE	182333928	9.11	3020	0.062	0.096	0.078	0.123	126.301170	21.825946	-1739.25	-1710.43

## 2.4 Star Slots

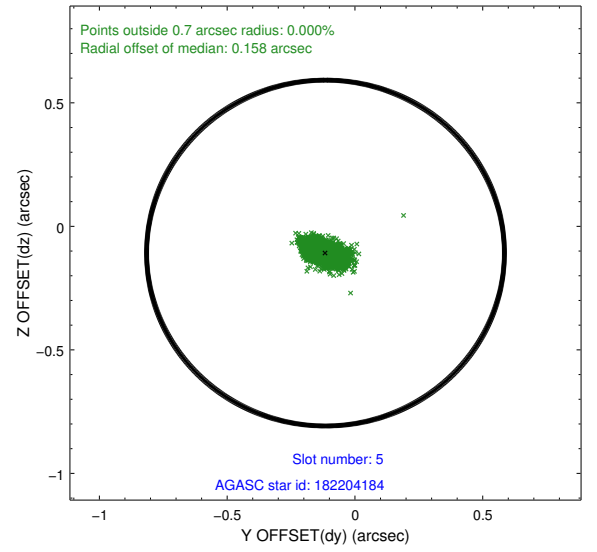
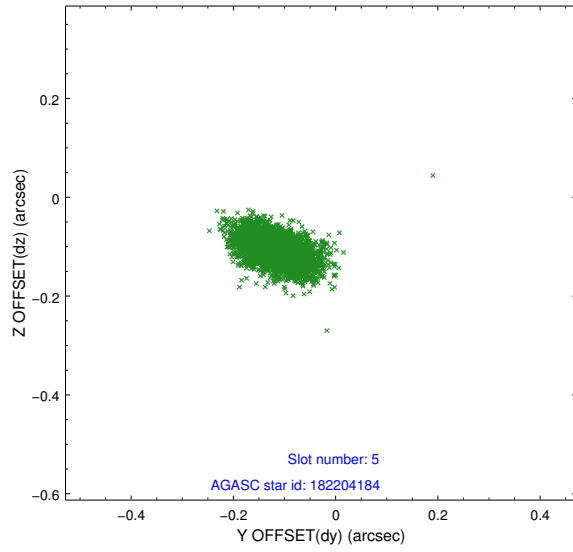
### 2.4.1 Slot 3



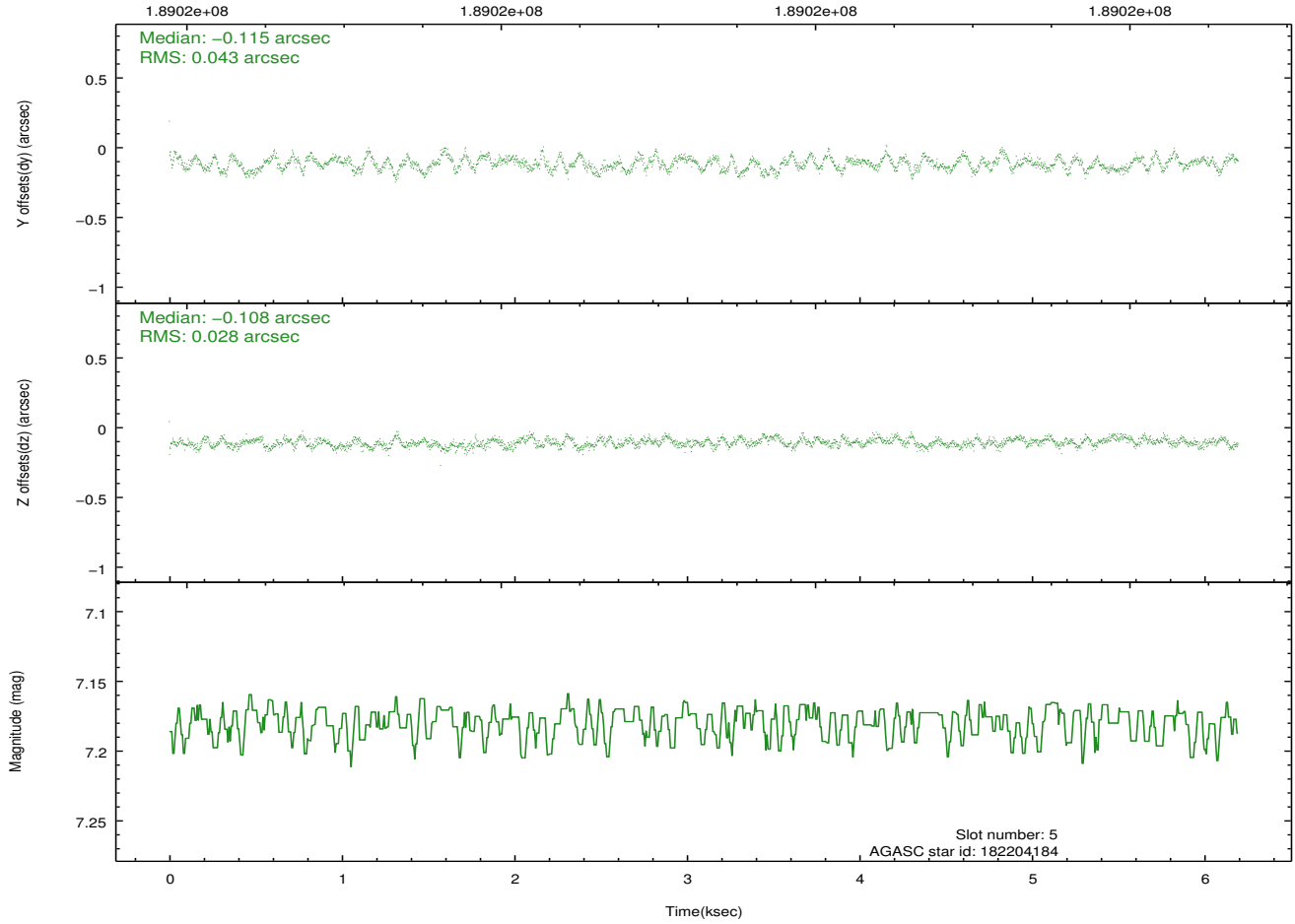
## 2.4.2 Slot 4



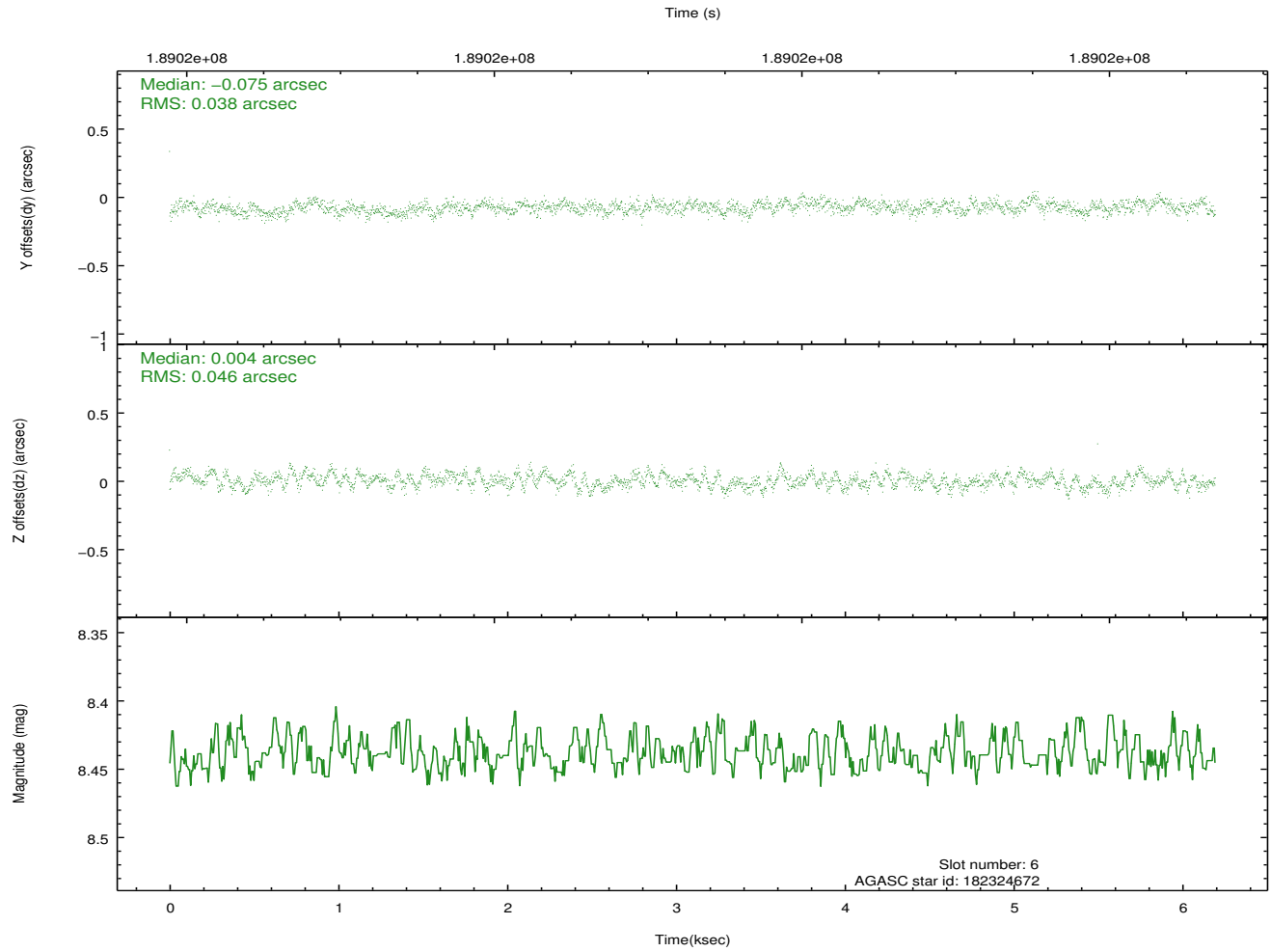
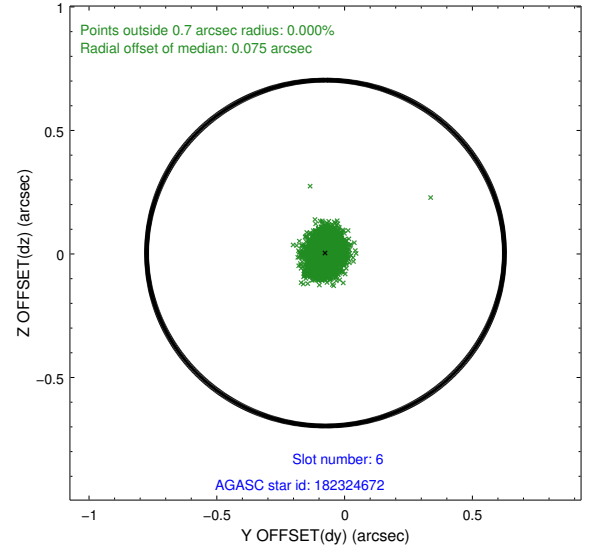
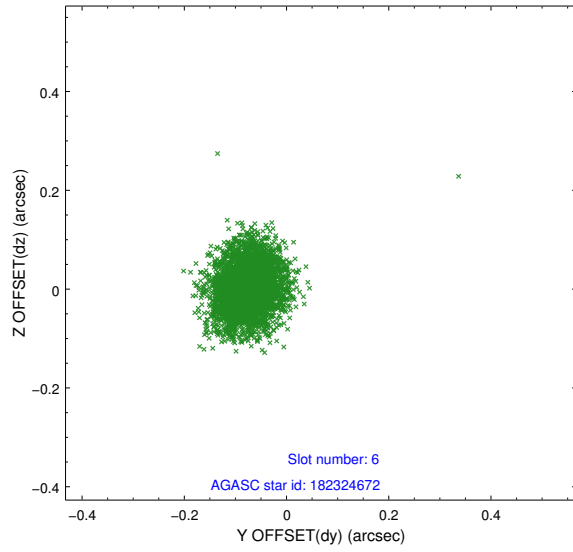
### 2.4.3 Slot 5



Time (s)

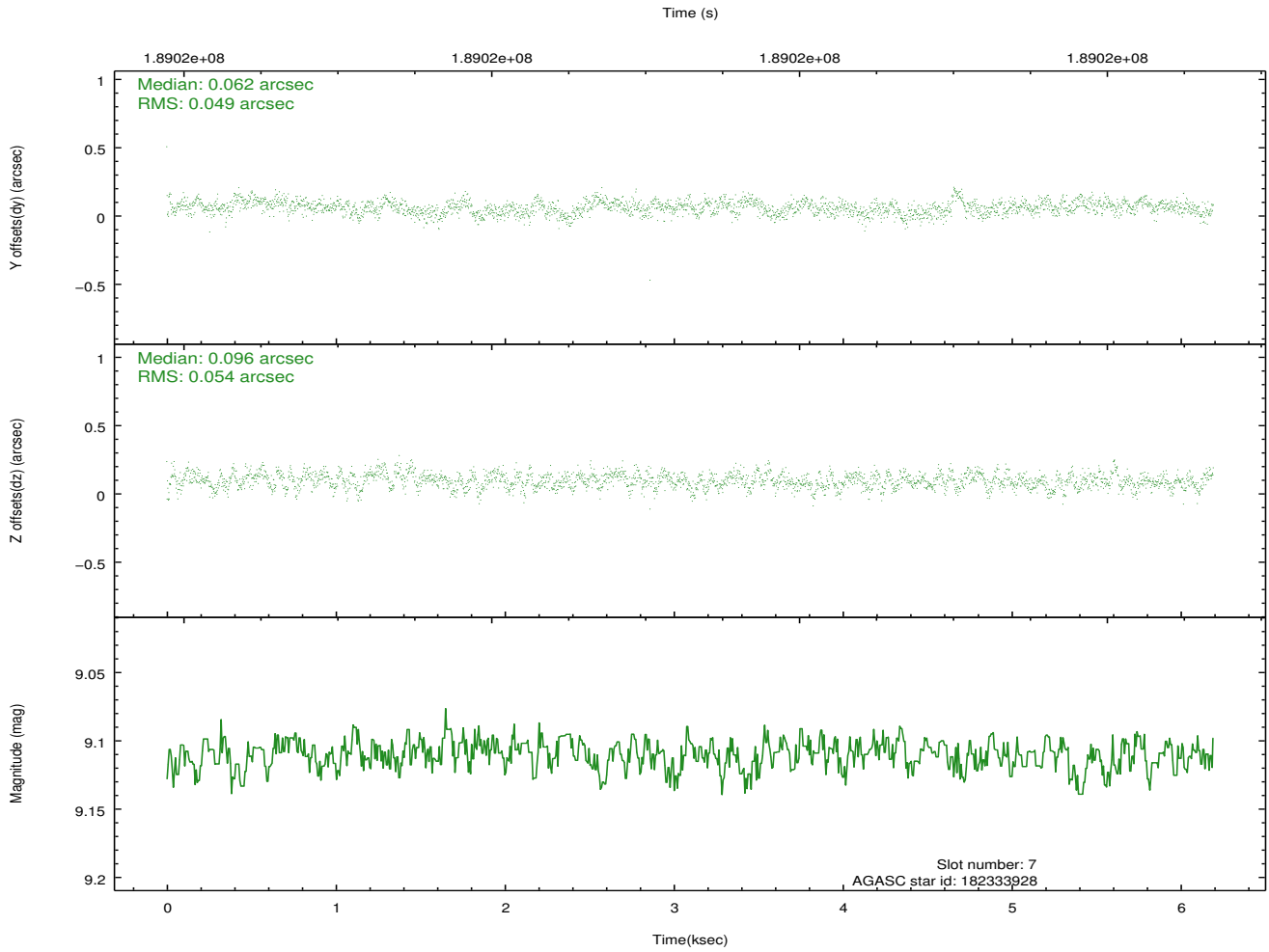
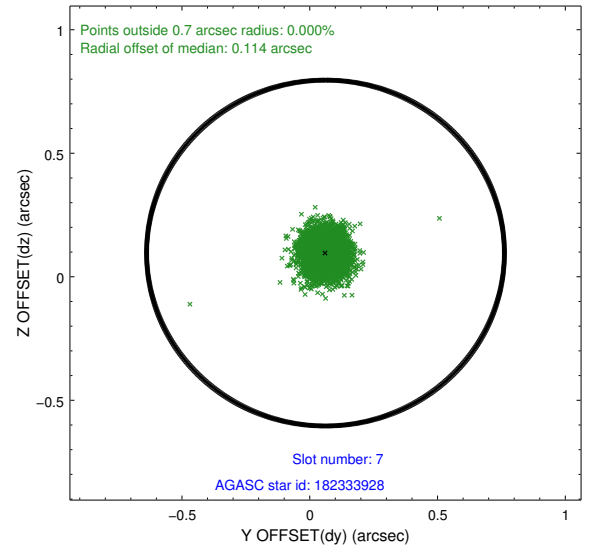
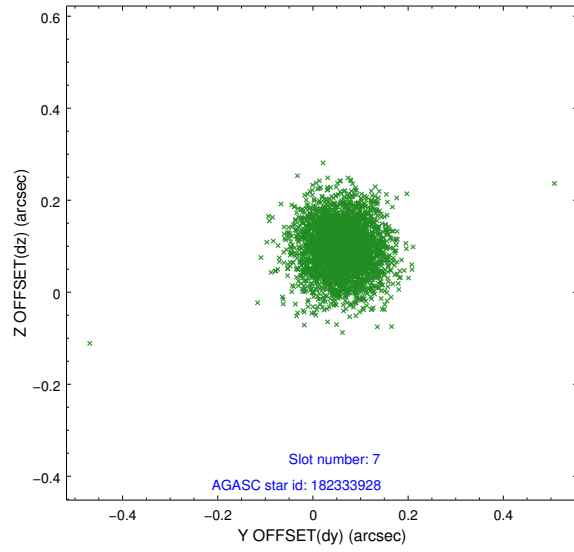


## 2.4.4 Slot 6



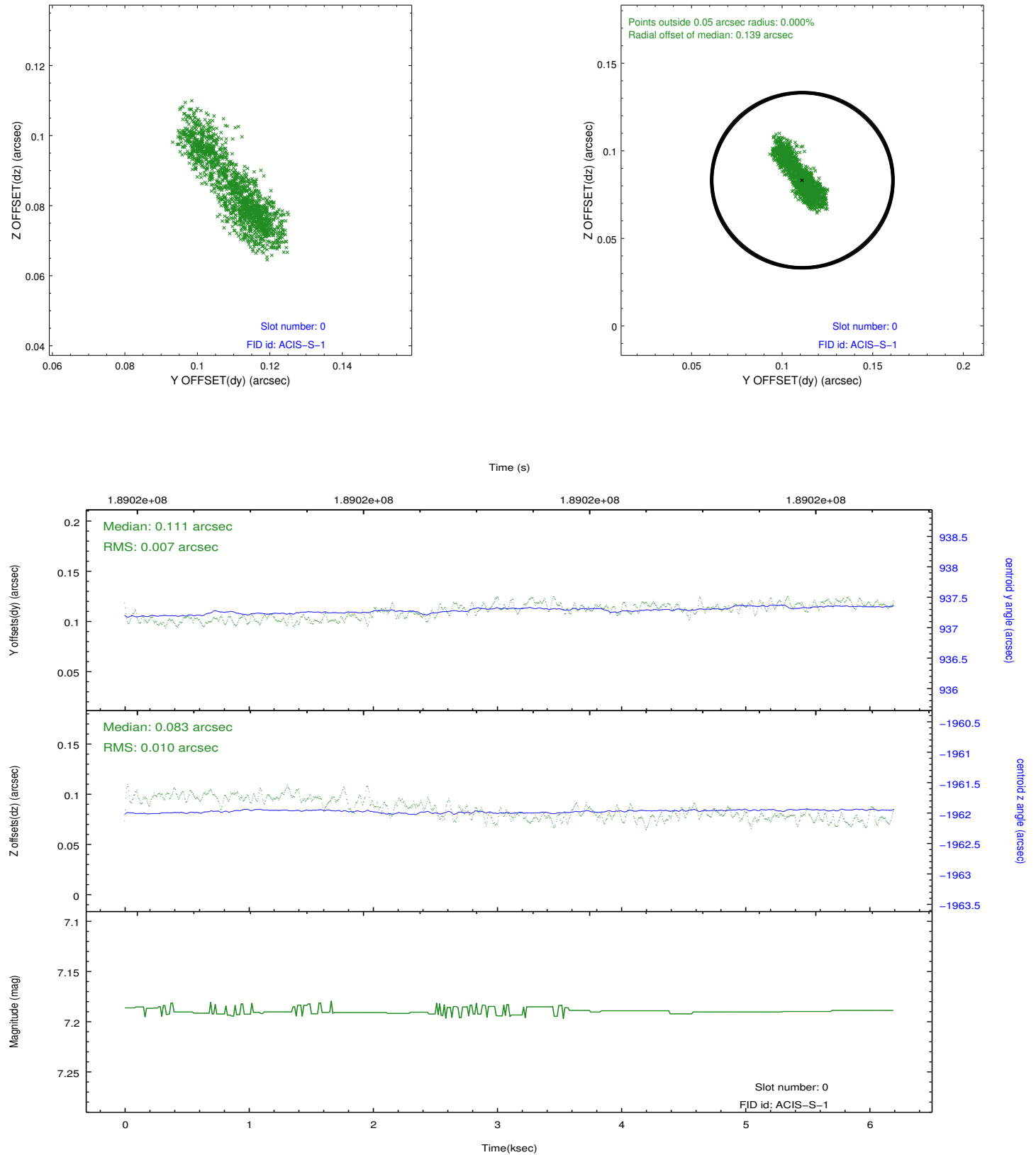


## 2.4.5 Slot 7

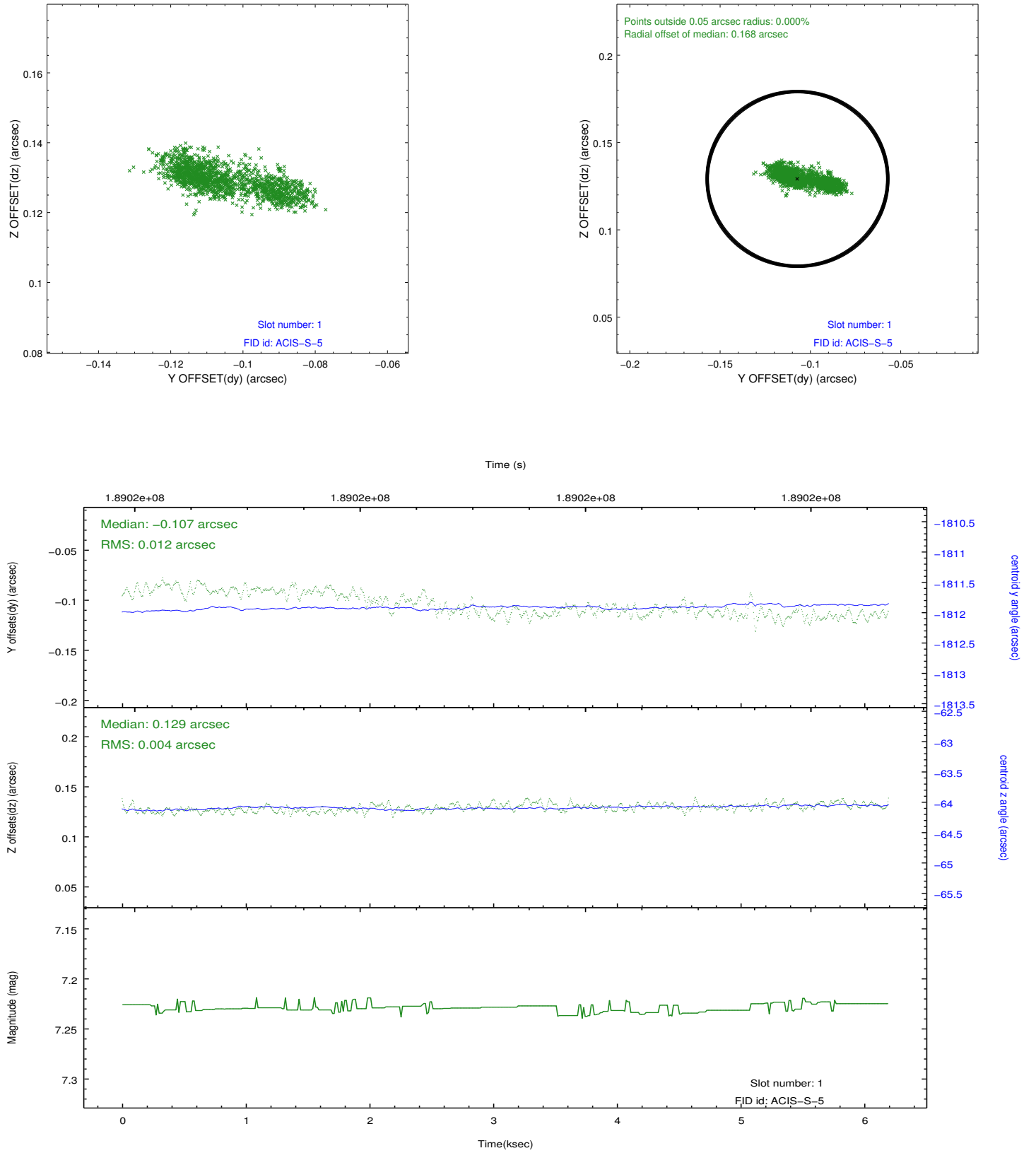


## 2.5 FID Slots

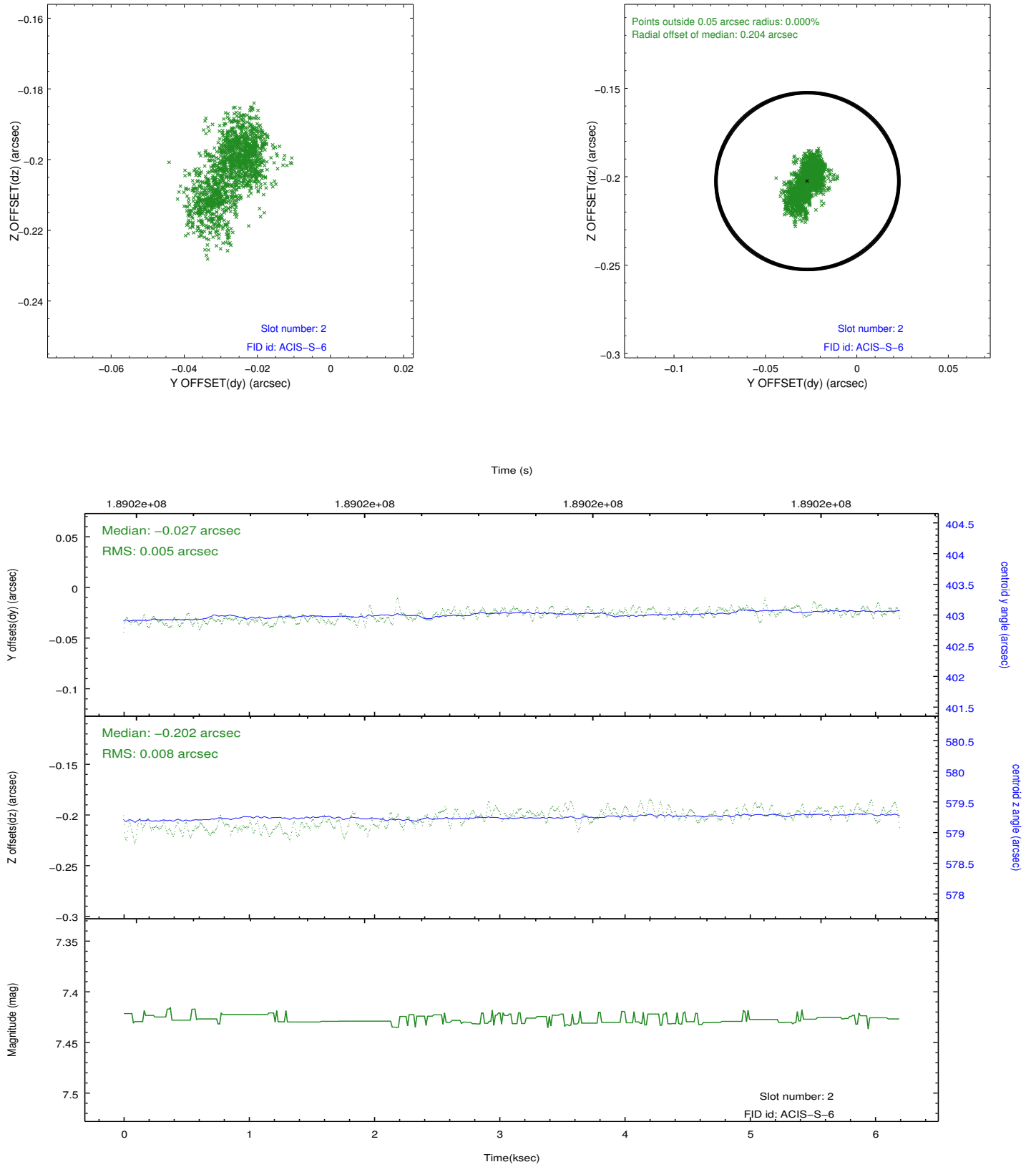
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.193

## A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.