

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1030 - L2 Version 001  
Chandra X-Ray Center

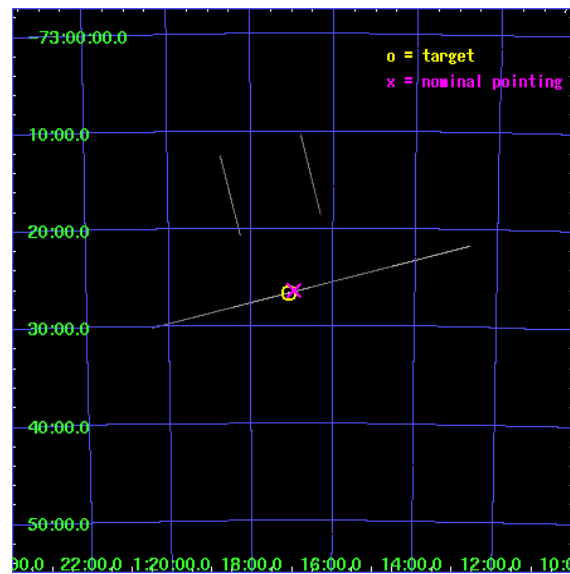
L2 Processing Date : Nov 29 2006

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# 1 Front

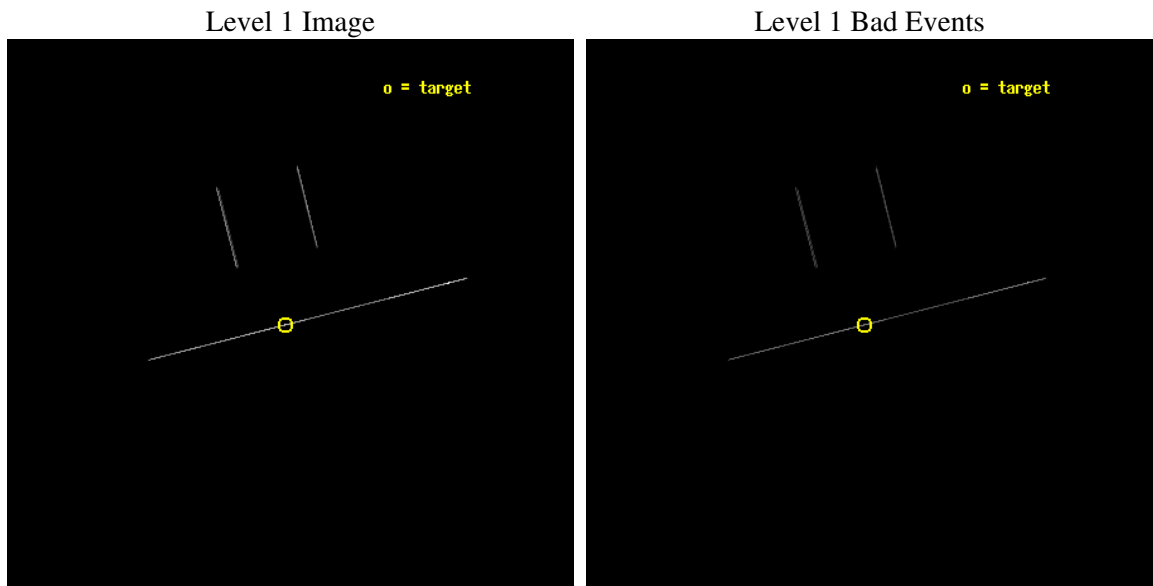
seq_num	400108
obs_id	1030
title	HIGH RESOLUTION UV/X-RAY SPECTROSCOPY OF SMC X-1
observer	Dr. Saeqa Vrtilek
object	SMC X-1
ra_targ	19.271667
dec_targ	-73.442944
ra_nom	19.240182976567
dec_nom	-73.438854292149
roll_nom	165.74135833577
revision	3
ontime	6152.5
livetime	6128.466796875
ontime2	6152.5
ontime3	6152.5
ontime5	6152.5
ontime6	6152.5
ontime7	6152.5
ontime8	6152.5
l2events	71086



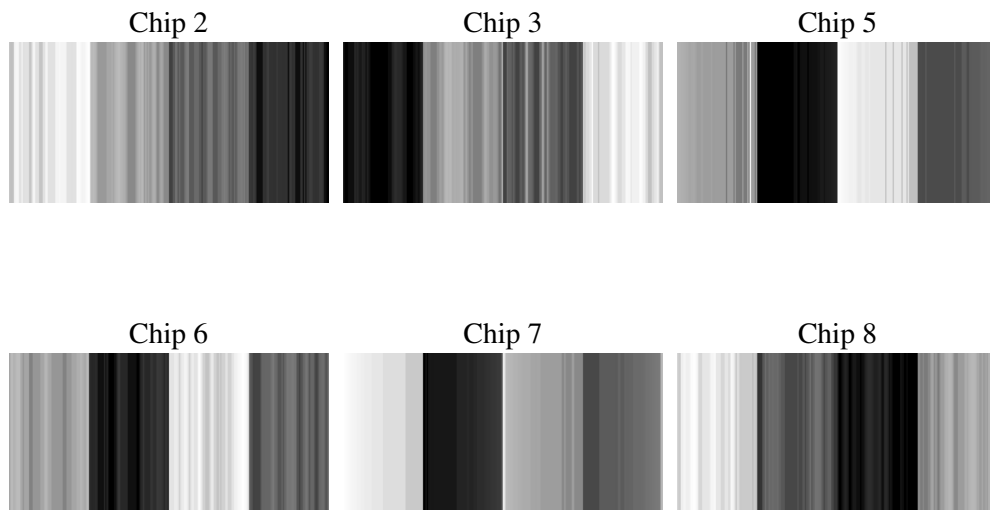
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.9
caldbver	3.2.4
date	2006-11-29T11:39:44
revision	3

sched_exp_time	6000.000000
ontime	6969.0816750824
ontime2	6969.0142513812
ontime3	6969.0787216276
ontime5	6969.0824235529
ontime6	6970.541254729
ontime7	6969.0816750824
ontime8	6970.5405042171
l1events	118612

### 2.1.4 Events

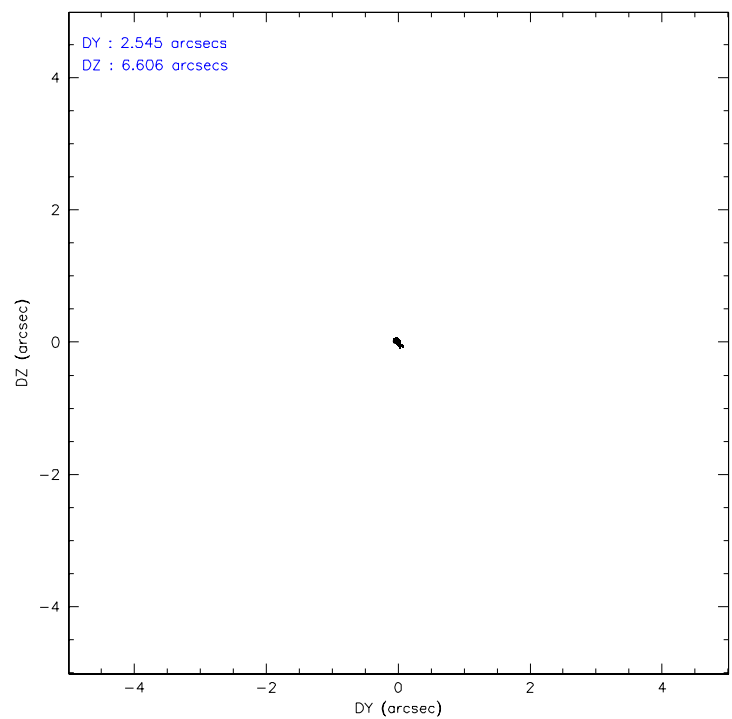
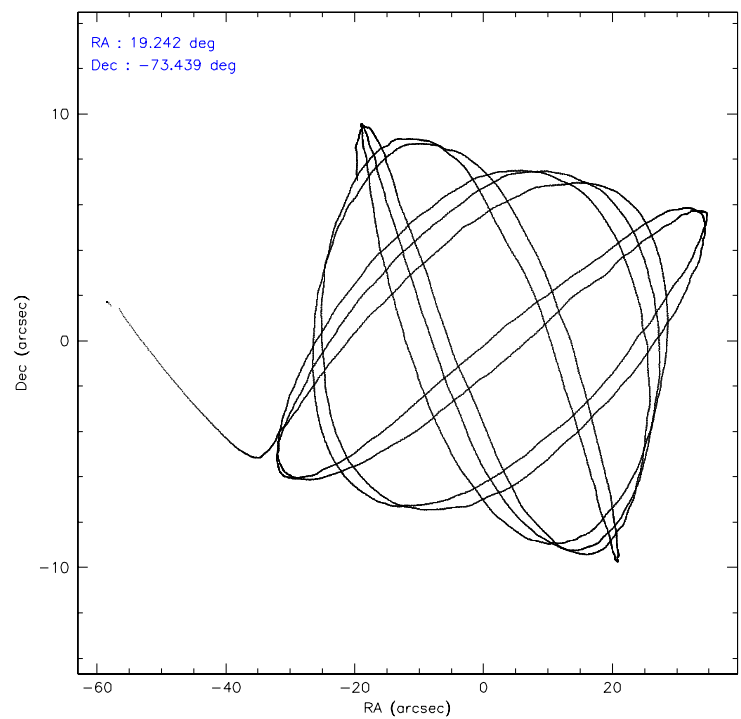
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	8466	9432	42407	9560	30961	17786
rejected events	2198	2491	7932	2705	7004	4353
rejected %	25%	26%	18%	28%	22%	24%

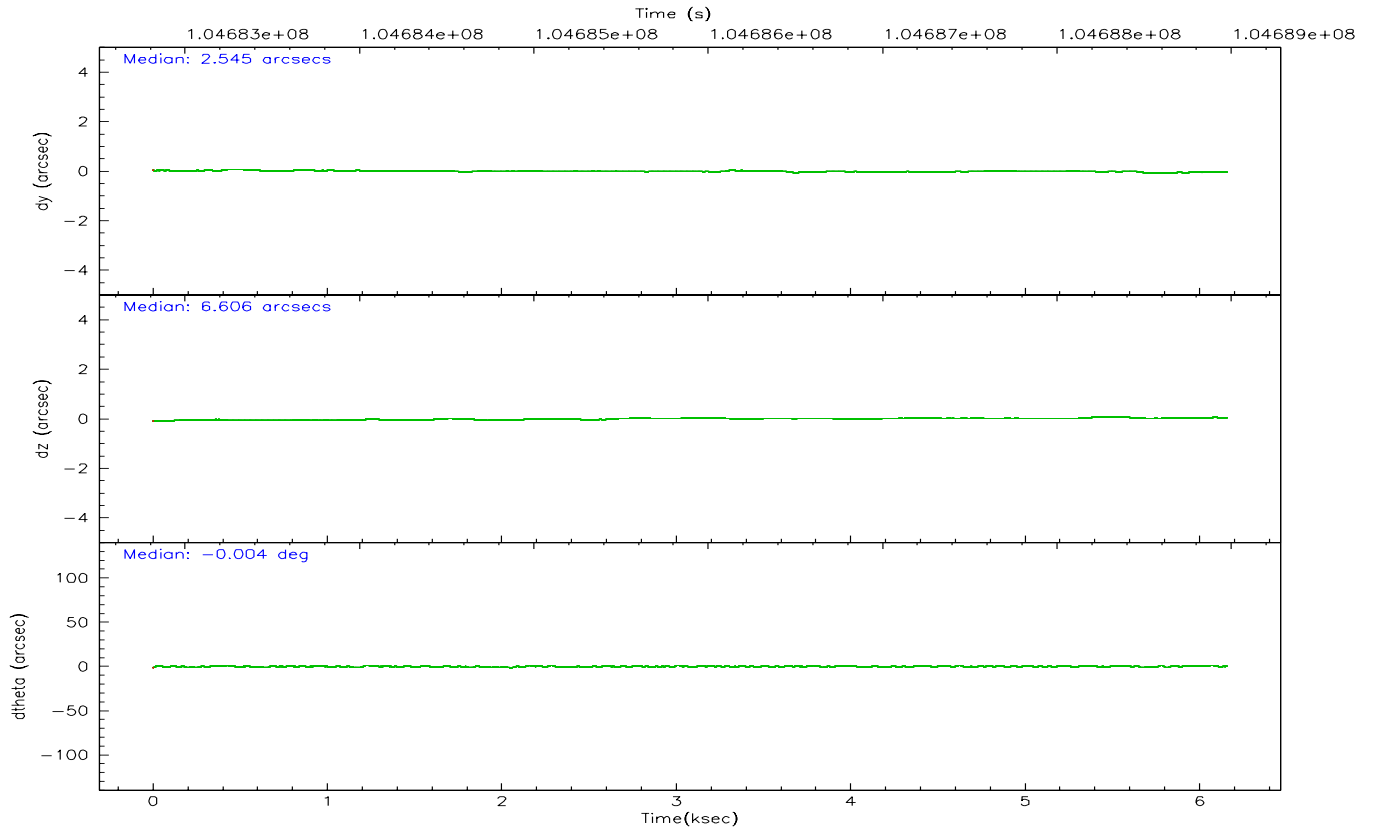
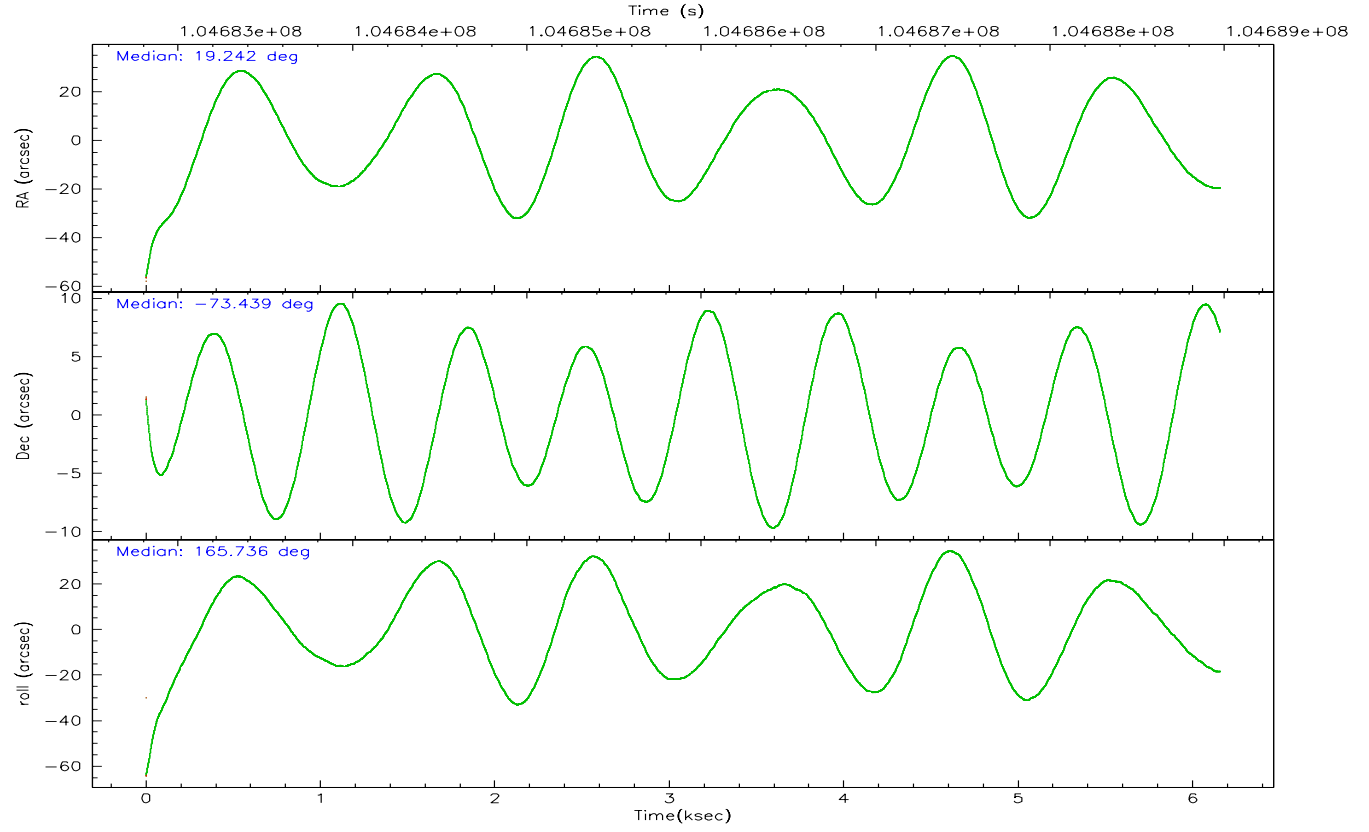
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	947	980	9599	887	2350	2828
	11%	10%	22%	9%	7%	15%
grade 1 events	20	34	35	34	57	58
	0%	0%	0%	0%	0%	0%
grade 2 events	2479	2795	10221	2915	7060	4830
	29%	29%	24%	30%	22%	27%
grade 3 events	1092	1254	723	1146	1380	1924
	12%	13%	1%	11%	4%	10%
grade 4 events	1096	1101	675	1114	1290	1905
	12%	11%	1%	11%	4%	10%
grade 5 events	1387	1600	3289	1754	4101	2397
	16%	16%	7%	18%	13%	13%
grade 6 events	1445	1668	17865	1710	14723	3844
	17%	17%	42%	17%	47%	21%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	19.332306	19.24018297656659	Subarray requested	NONE	NONE
Pointing Dec	-73.431213	-73.43885429214934	Alternating exposures requested	N	N
Pointing Roll	165.673042	165.7413583357725	Primary exposure time	0.000000	0
Window start time	104677759.184000	104677759.184000			
Window stop time	104690036.184000	104690036.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Phase constraints	Y	Y			
Phase period	3.892000	3.892000			
Phase epoch	50141.466800	50141.466800			
Phase start	0.000000	0.000000			
Phase end	0.800000	0.800000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
Observation start time	104682974.184000	104682006.74922			
Observation start date	2001-04-26T14:35:10	2001-04-26T14:20:06			
Observation end time	104688974.184000	104689751.13702			
Observation end date	2001-04-26T16:15:10	2001-04-26T16:29:11			

### 2.3 Aspect





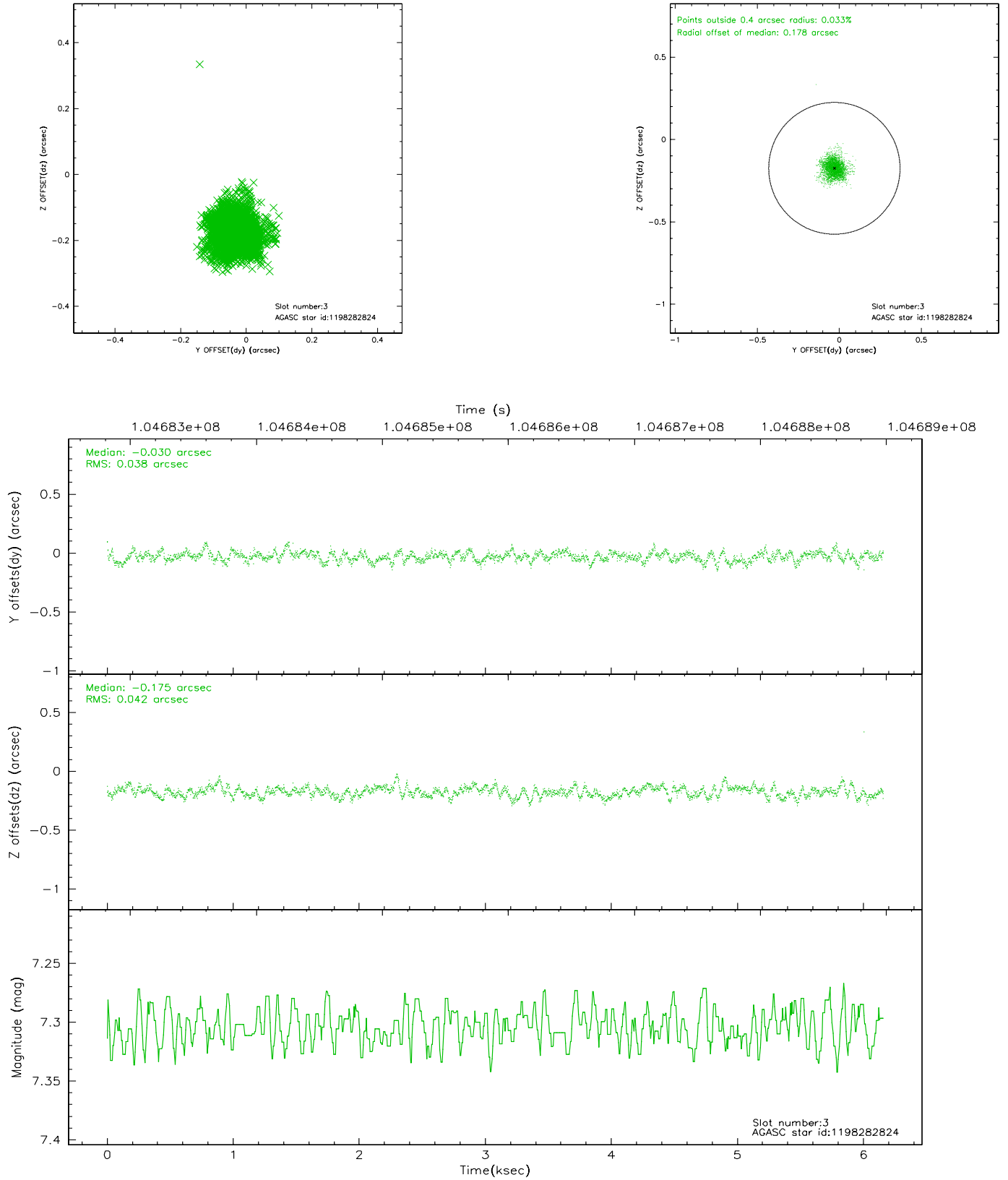
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1503	-0.080	-0.069	0.007	0.011	0.000000	0.000000	57.94	-1856.89
1	FID	ACIS-S-4	7.19	1503	-0.047	0.075	0.005	0.008	0.000000	0.000000	2158.17	179.72
2	FID	ACIS-S-5	7.23	1503	0.099	0.004	0.006	0.010	0.000000	0.000000	-1806.68	174.51
3	GUIDE	1198282824	7.30	3005	-0.030	-0.175	0.058	0.099	18.044095	-73.907062	819.13	1991.67
4	GUIDE	1198269920	8.25	3005	-0.015	0.014	0.074	0.118	20.316466	-73.033728	-647.89	-1632.95
5	GUIDE	1198282880	9.60	3004	0.019	0.009	0.092	0.152	17.772623	-73.017886	1952.95	-1015.06
6	GUIDE	1198283120	9.35	3004	-0.010	0.081	0.070	0.118	18.724531	-73.257934	766.30	-445.01
7	GUIDE	1198264832	9.53	3003	0.042	0.075	0.102	0.164	20.353668	-72.974637	-636.75	-1849.76

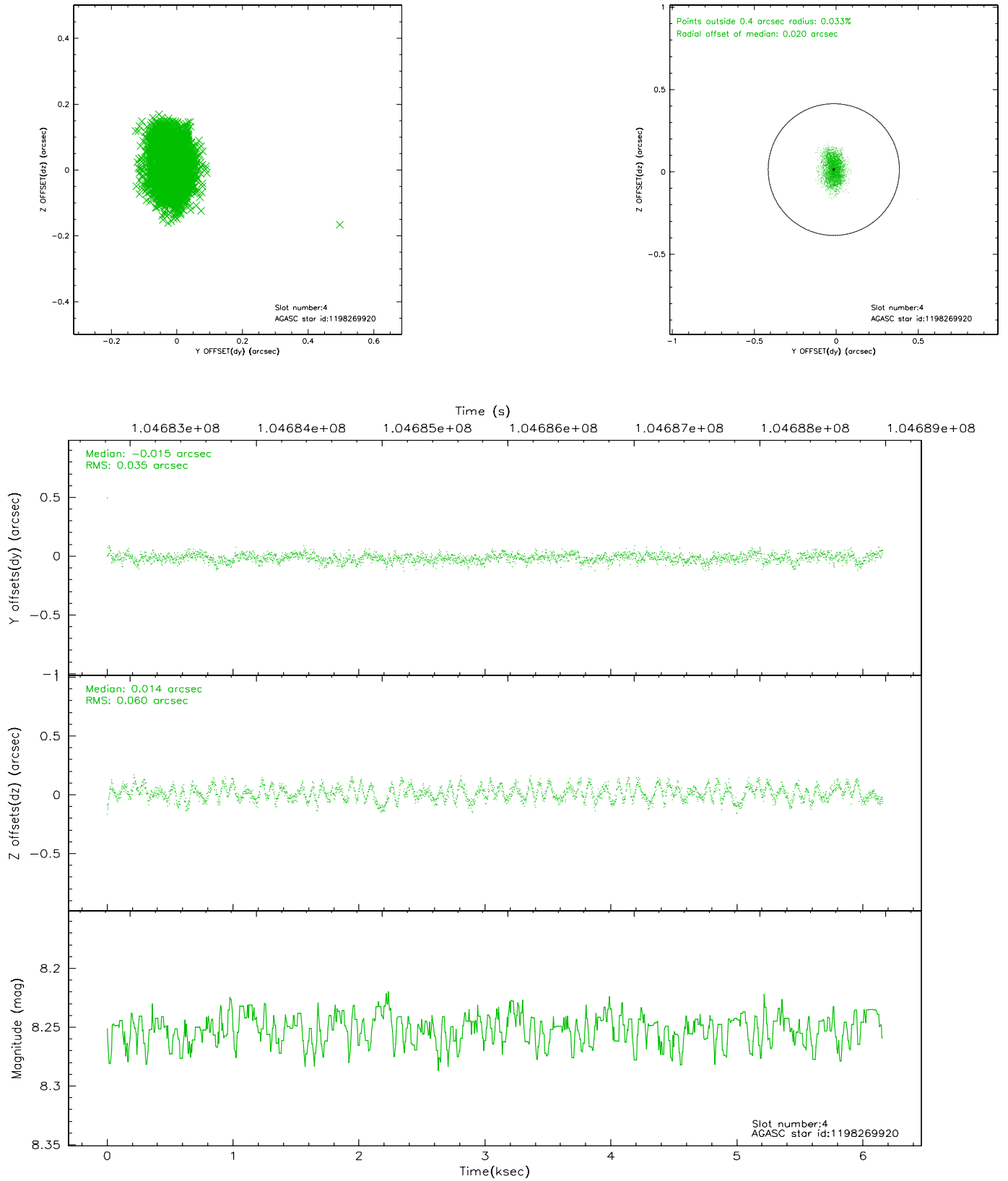


## 2.4 Star Slots

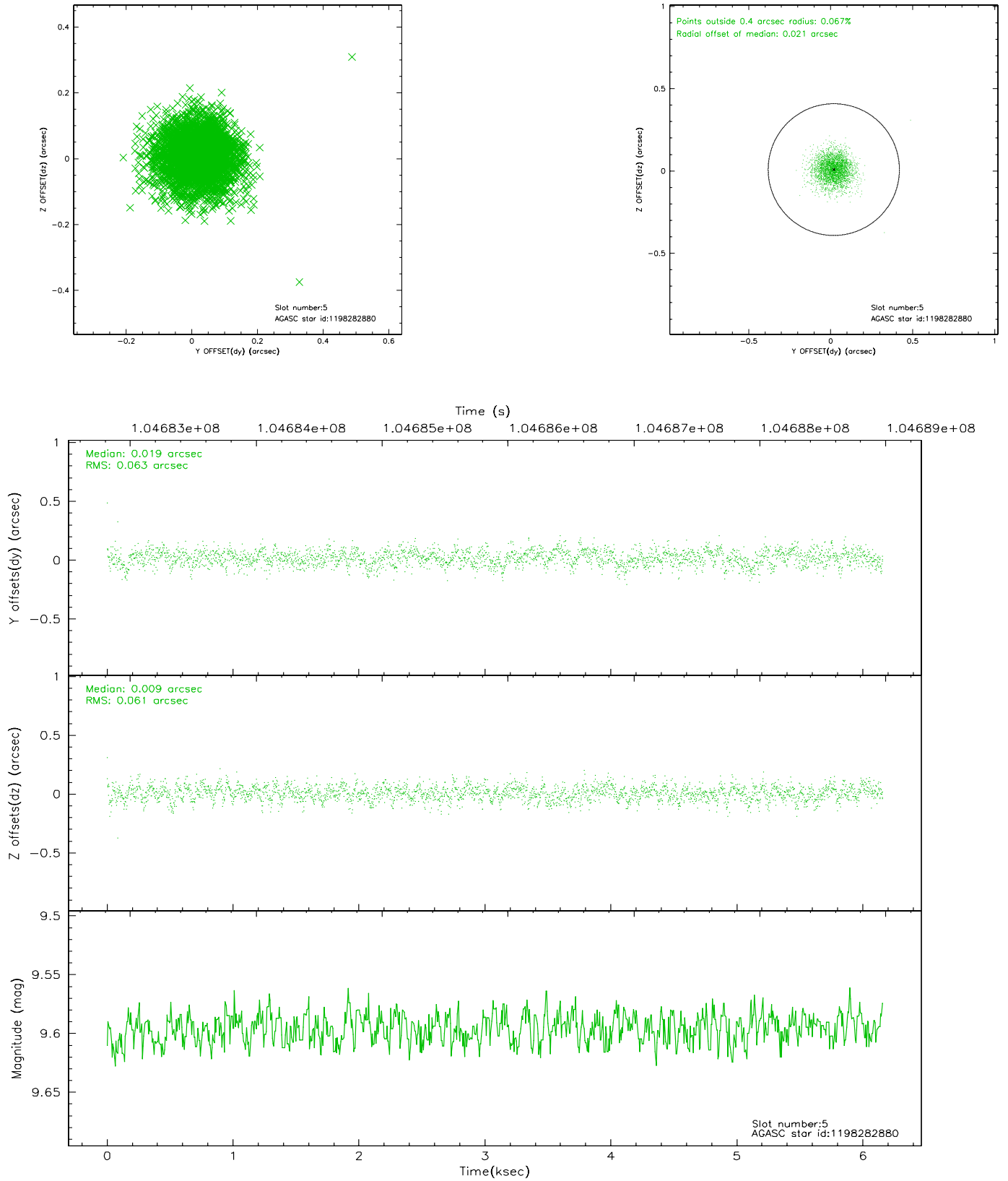
### 2.4.1 Slot 3



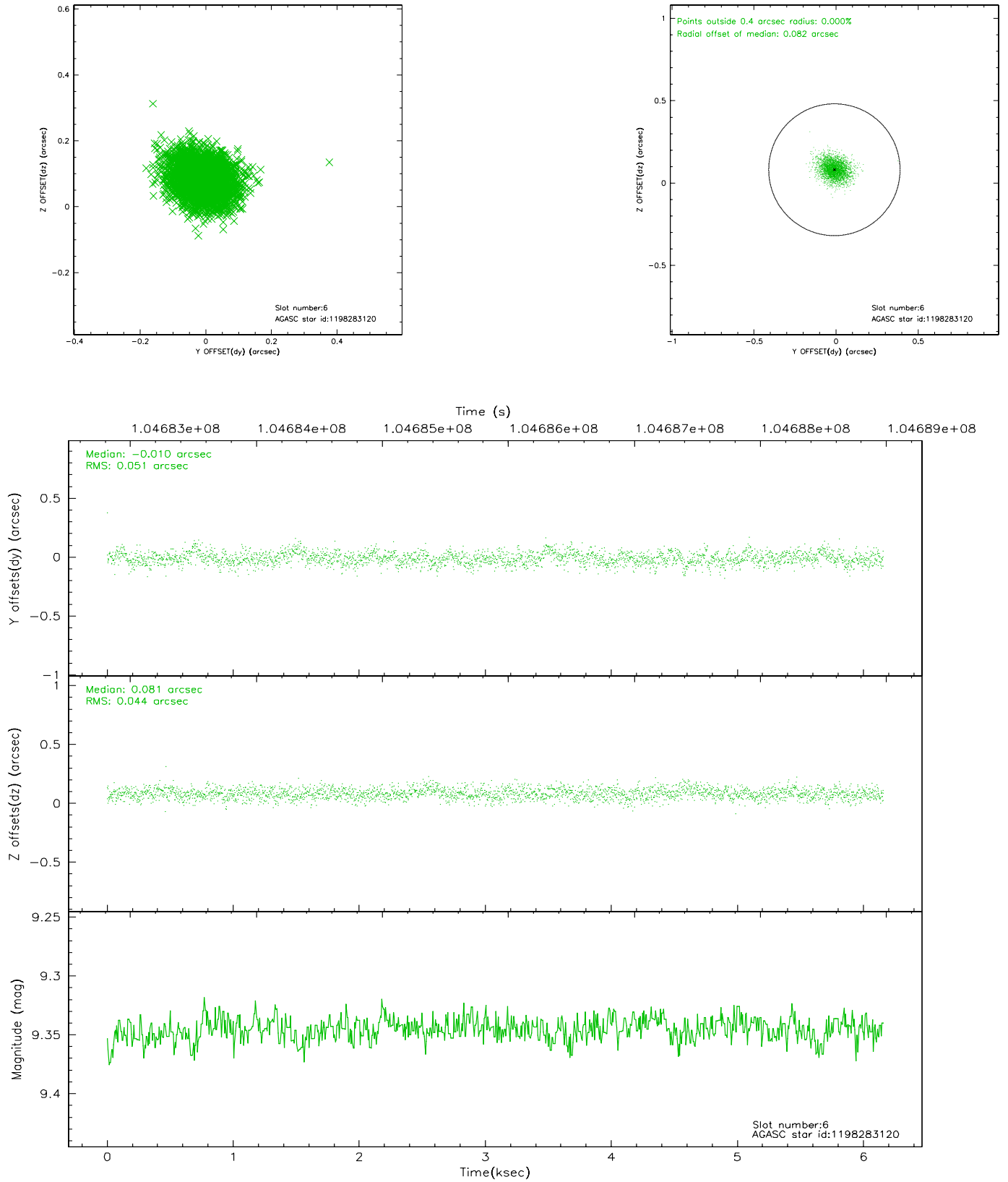
## 2.4.2 Slot 4



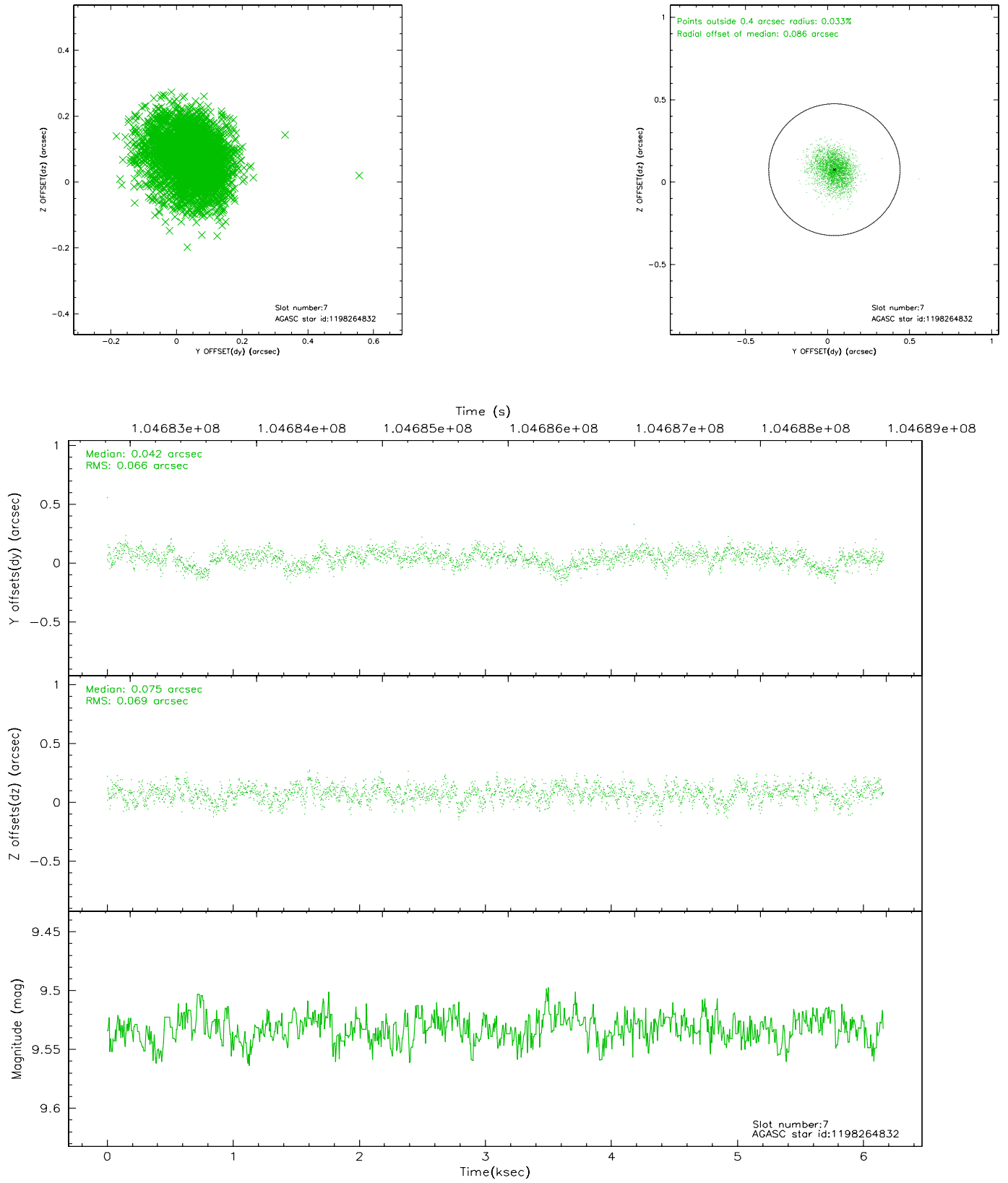
### 2.4.3 Slot 5



## 2.4.4 Slot 6

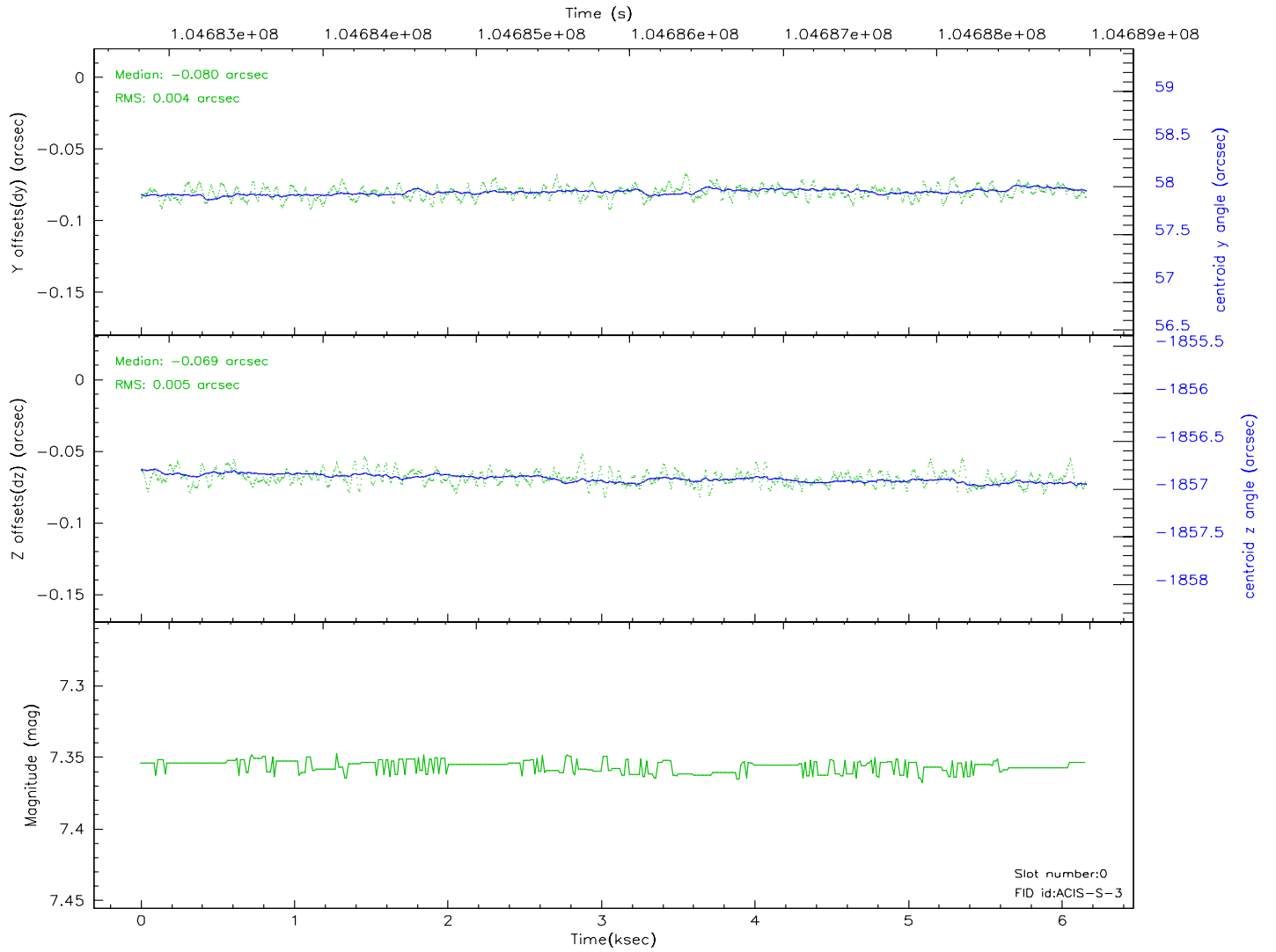
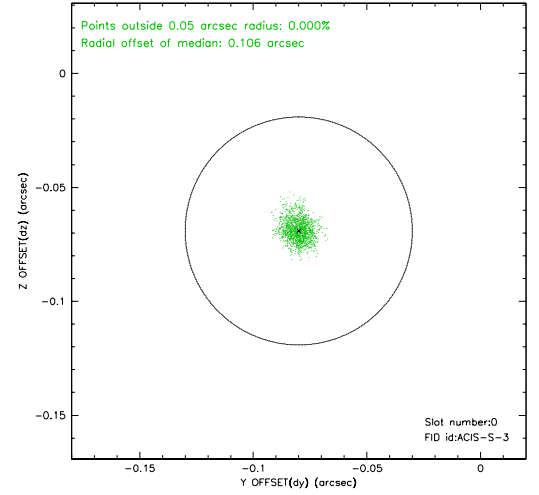
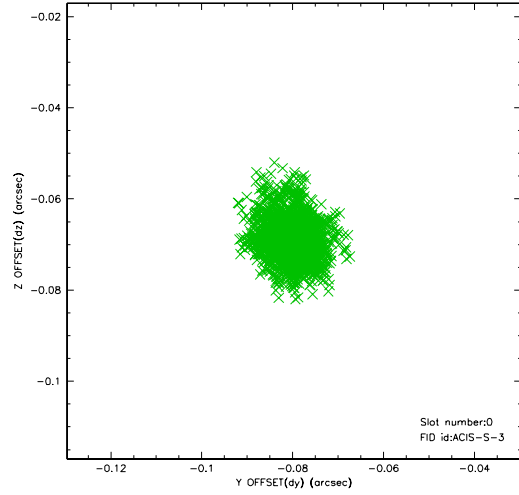


## 2.4.5 Slot 7

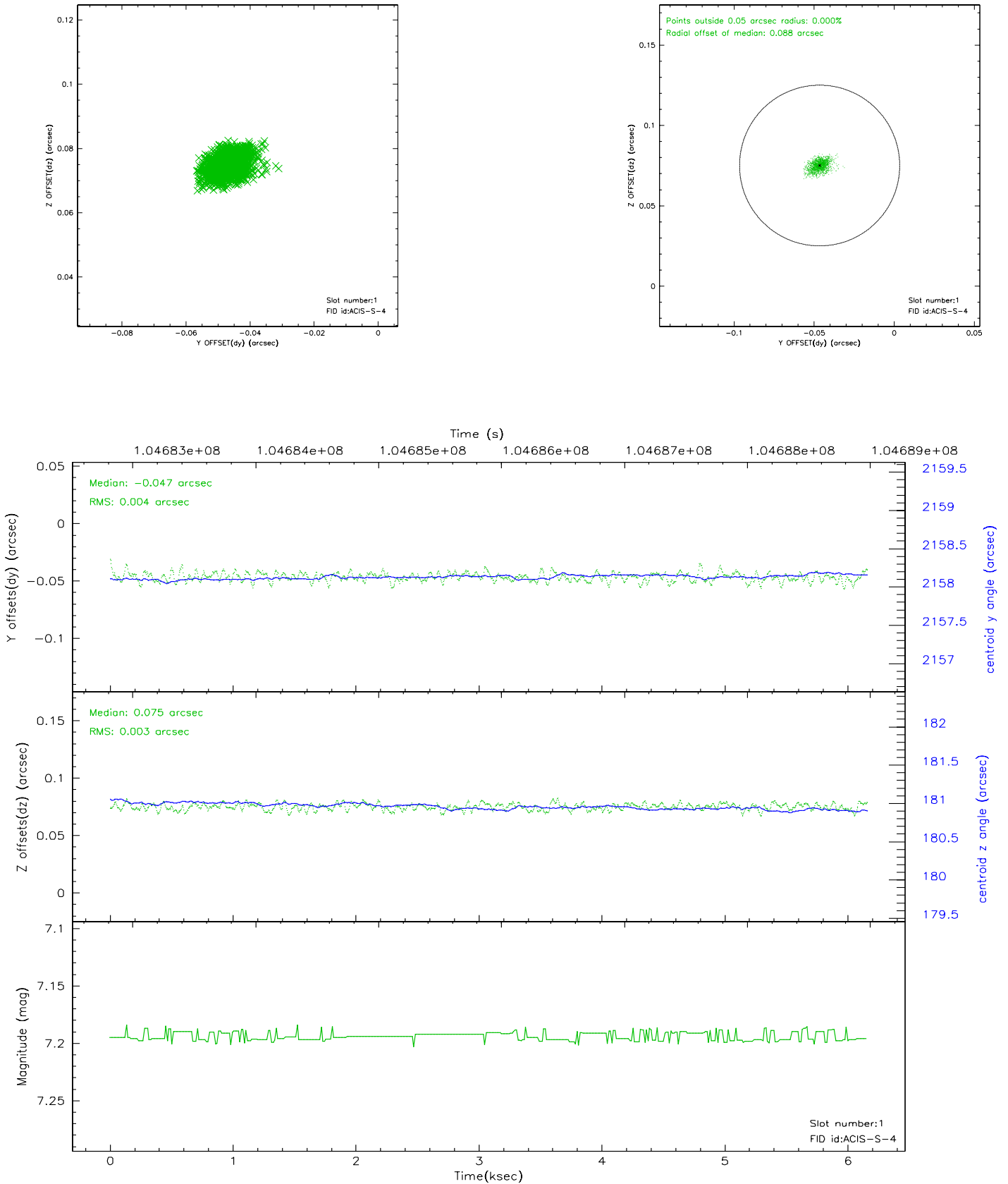


## 2.5 FID Slots

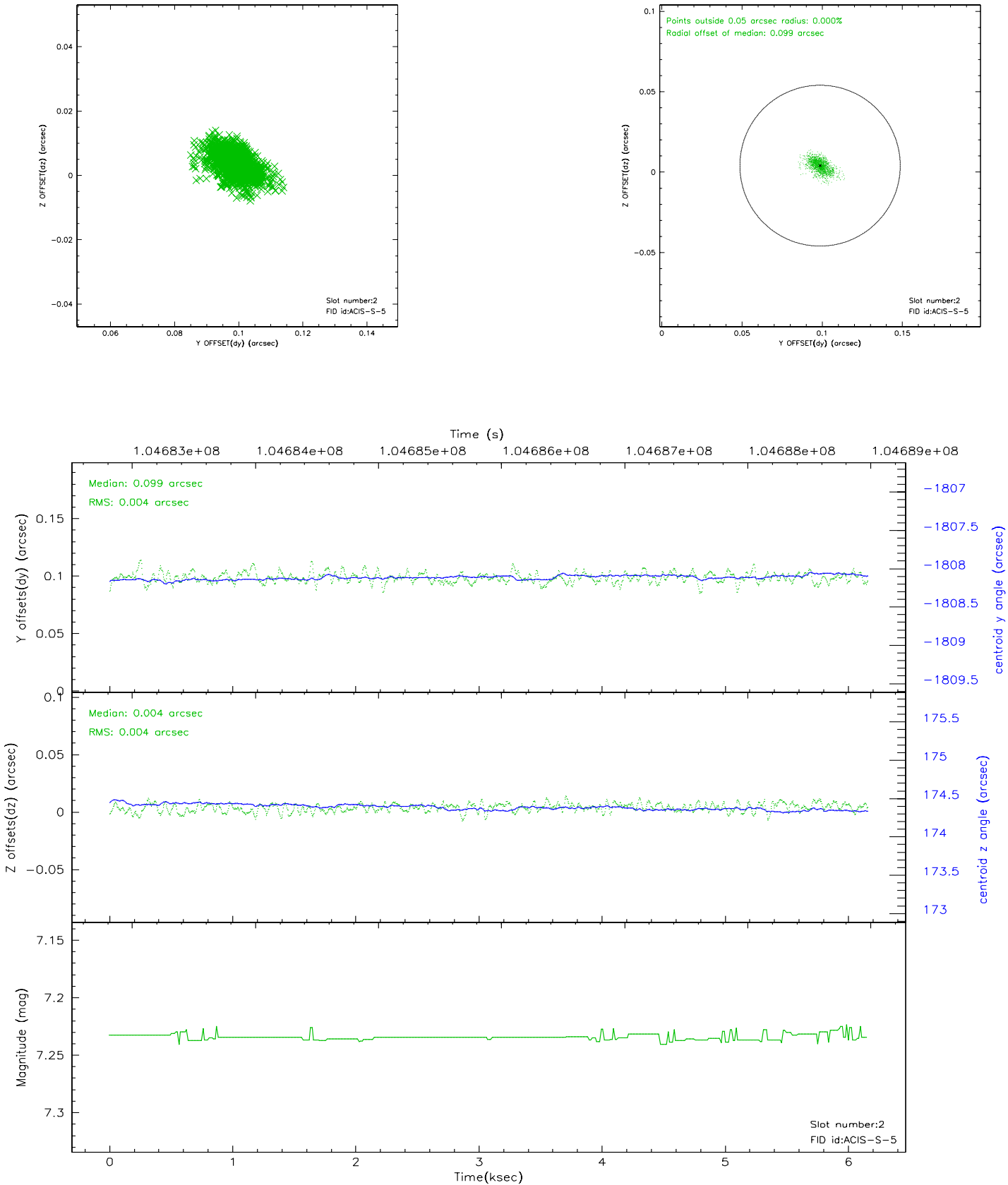
### 2.5.1 Slot 0



## 2.5.2 Slot 1



2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.156

## A.2 Comments

requested time window: Apr 26 2001 1:08PM - Apr 26 2001 4:32PM

actual: 2001-04-26T14:20:06 - 2001-04-26T16:29:11

Constraint met.