

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1510 - L2 Version 001  
Chandra X-Ray Center

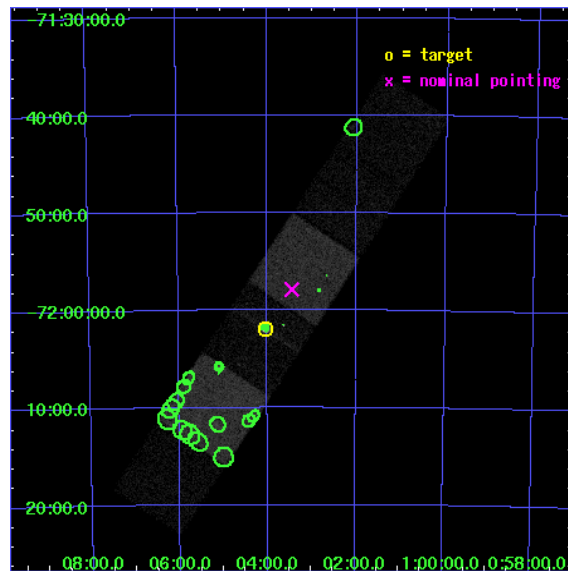
L2 Processing Date : Jun 19 2007

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# 1 Front

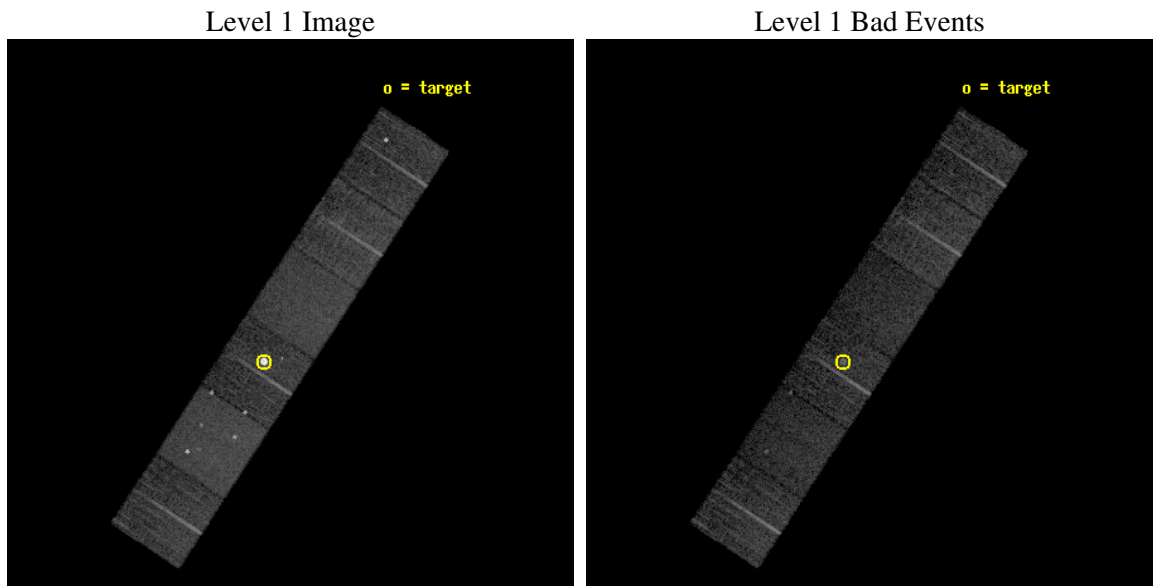
seq_num	590133
obs_id	1510
title	ACIS CALIBRATION OBSERVATION OF THE SUPERNOVA REMNANT E0102-72 (DEC 2000)
observer	Dr. CXC Calibration
object	E0102-72.3 [Chip S2, T=120, Offsets=5,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.860533486561
dec_nom	-71.964653522298
roll_nom	303.29434115319
revision	2
ontime	7753.6000072211
livetime	7655.4192552723
ontime4	7753.6000072211
ontime5	7753.6000072211
ontime6	7753.6000072211
ontime7	7753.6000072211
ontime8	7753.6000072211
ontime9	7753.6000072211
l2events	105976



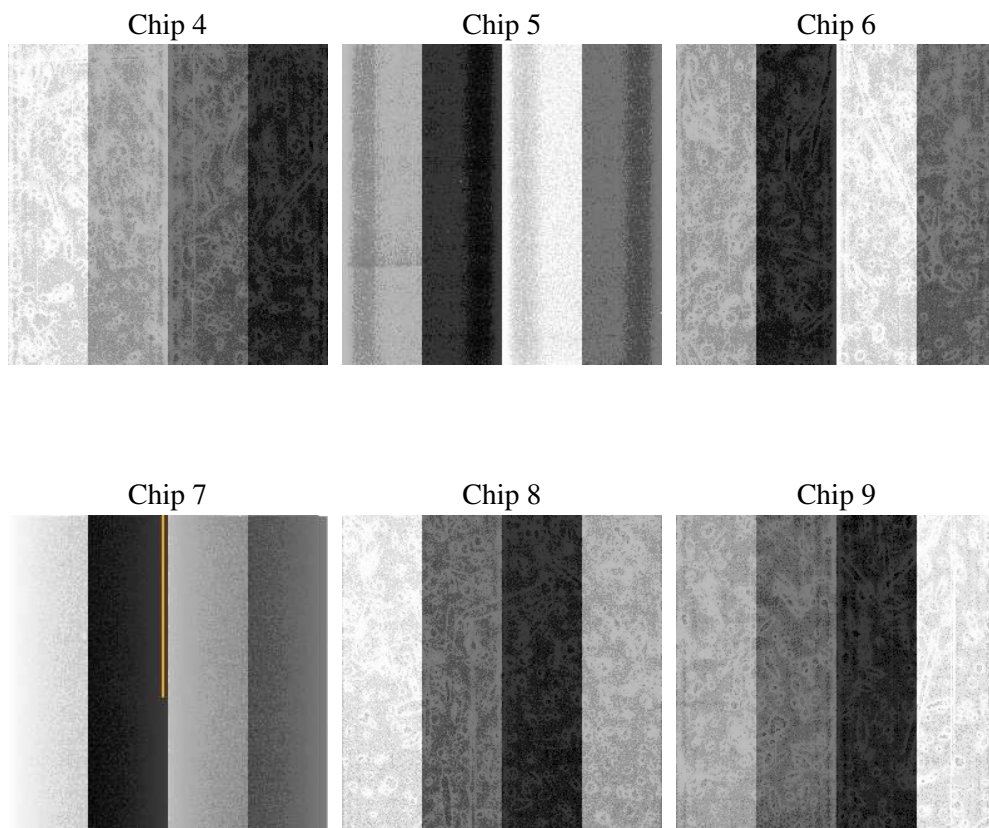
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-20T00:07:33
revision	2

sched_exp_time	8000.000000
ontime	7753.6000072211
ontime4	7753.6000072211
ontime5	7753.6000072211
ontime6	7753.6000072211
ontime7	7753.6000072211
ontime8	7753.6000072211
ontime9	7753.6000072211
l1events	369119

### 2.1.4 Events

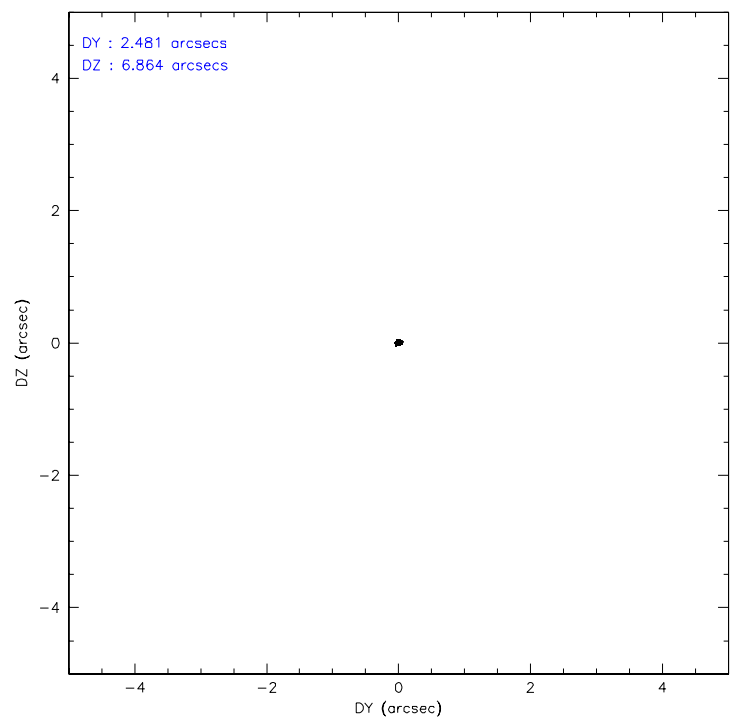
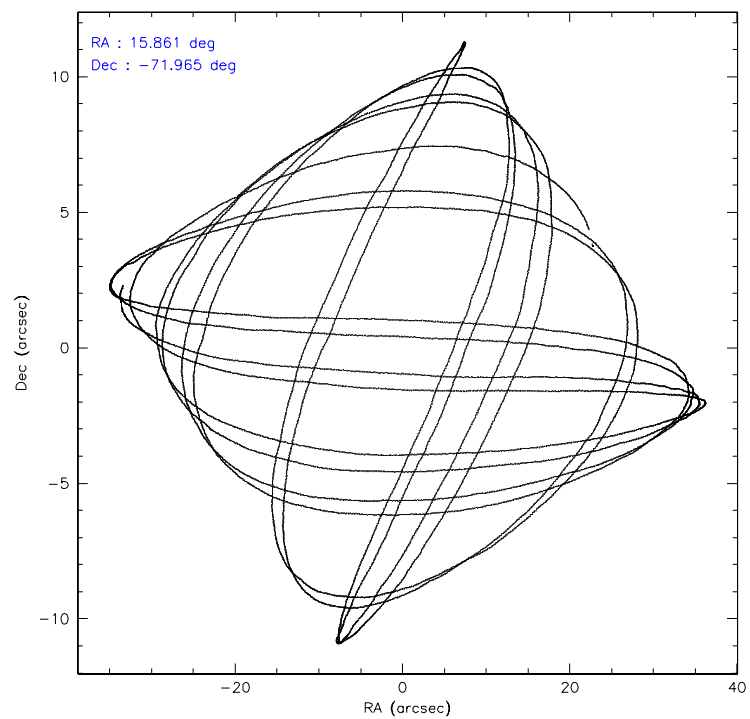
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	51081	68642	81773	58406	60588	48629
rejected events	45595	34402	40631	32897	49294	40849
rejected %	89%	50%	49%	56%	81%	84%

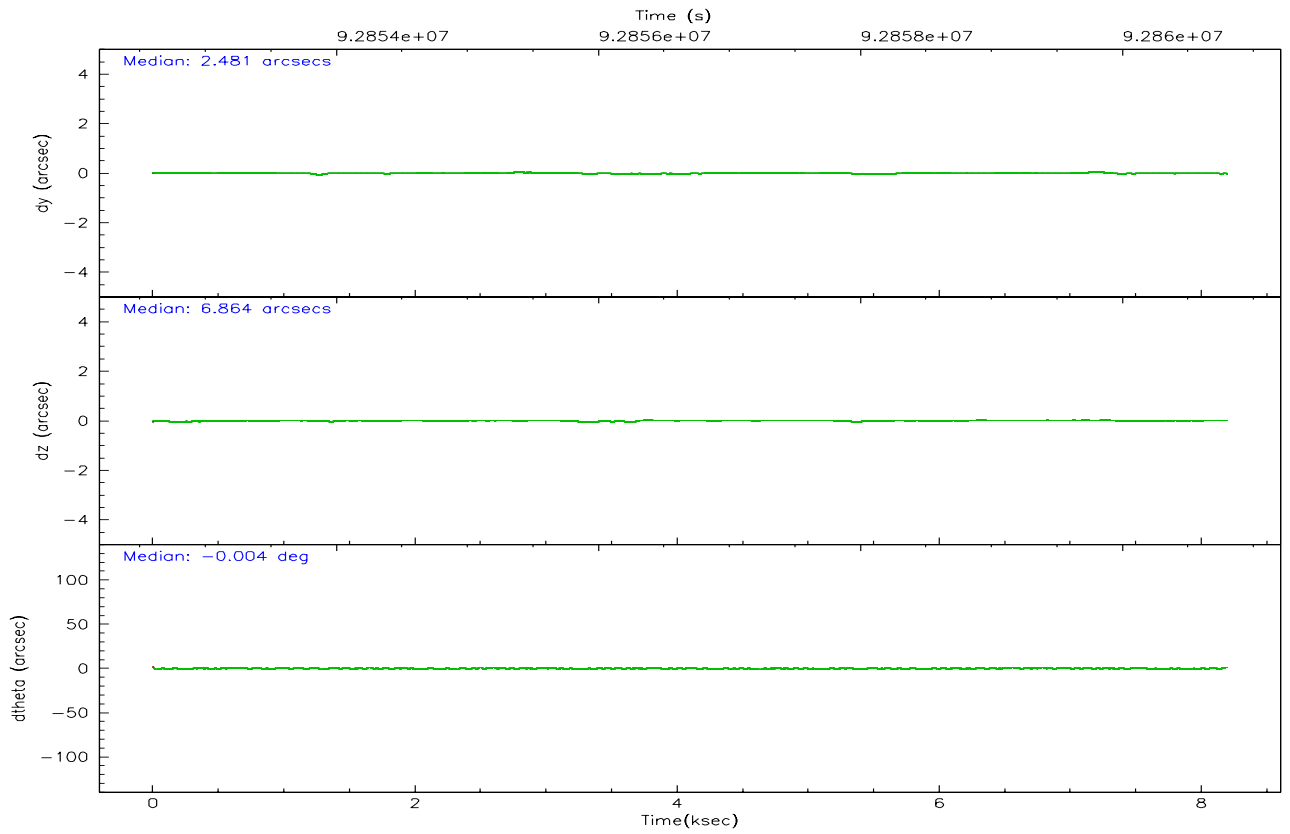
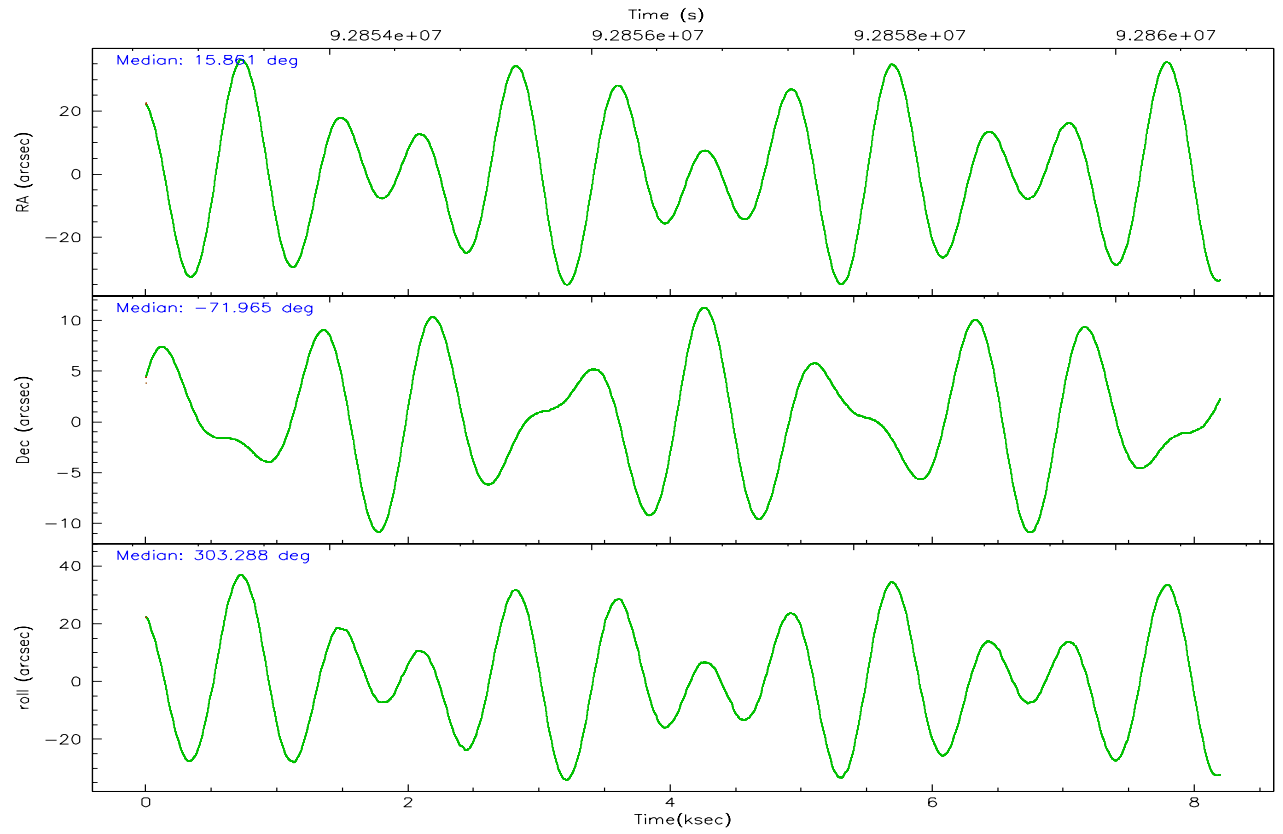
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2292	5009	34503	2775	3500	4545
	4%	7%	42%	4%	5%	9%
grade 1 events	29	294	336	58	30	43
	0%	0%	0%	0%	0%	0%
grade 2 events	1301	10539	3340	5040	2417	1049
	2%	15%	4%	8%	3%	2%
grade 3 events	494	1518	1098	2406	1209	541
	0%	2%	1%	4%	1%	1%
grade 4 events	481	1480	1018	2362	1079	553
	0%	2%	1%	4%	1%	1%
grade 5 events	1568	4966	1977	5517	2403	1881
	3%	7%	2%	9%	3%	3%
grade 6 events	925	15722	1219	12953	3095	1095
	1%	22%	1%	22%	5%	2%
grade 7 events	43991	29114	38282	27295	46855	38922
	86%	42%	46%	46%	77%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Observation mode	POINTING	POINTING	Number of optional ACIS chips dropped	0	0
Pointing RA	15.781446	15.86053348656135	On-chip summing requested	N	N
Pointing Dec	-71.952581	-71.96465352229771	Subarray requested	NONE	NONE
Pointing Roll	303.062517	303.2943411531856	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	3.2
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	92852798.184000	92852422.35579699			
Observation start date	2000-12-10T16:25:34	2000-12-10T16:20:22			
Observation end time	92860798.184000	92860931.906122			
Observation end date	2000-12-10T18:38:54	2000-12-10T18:42:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect





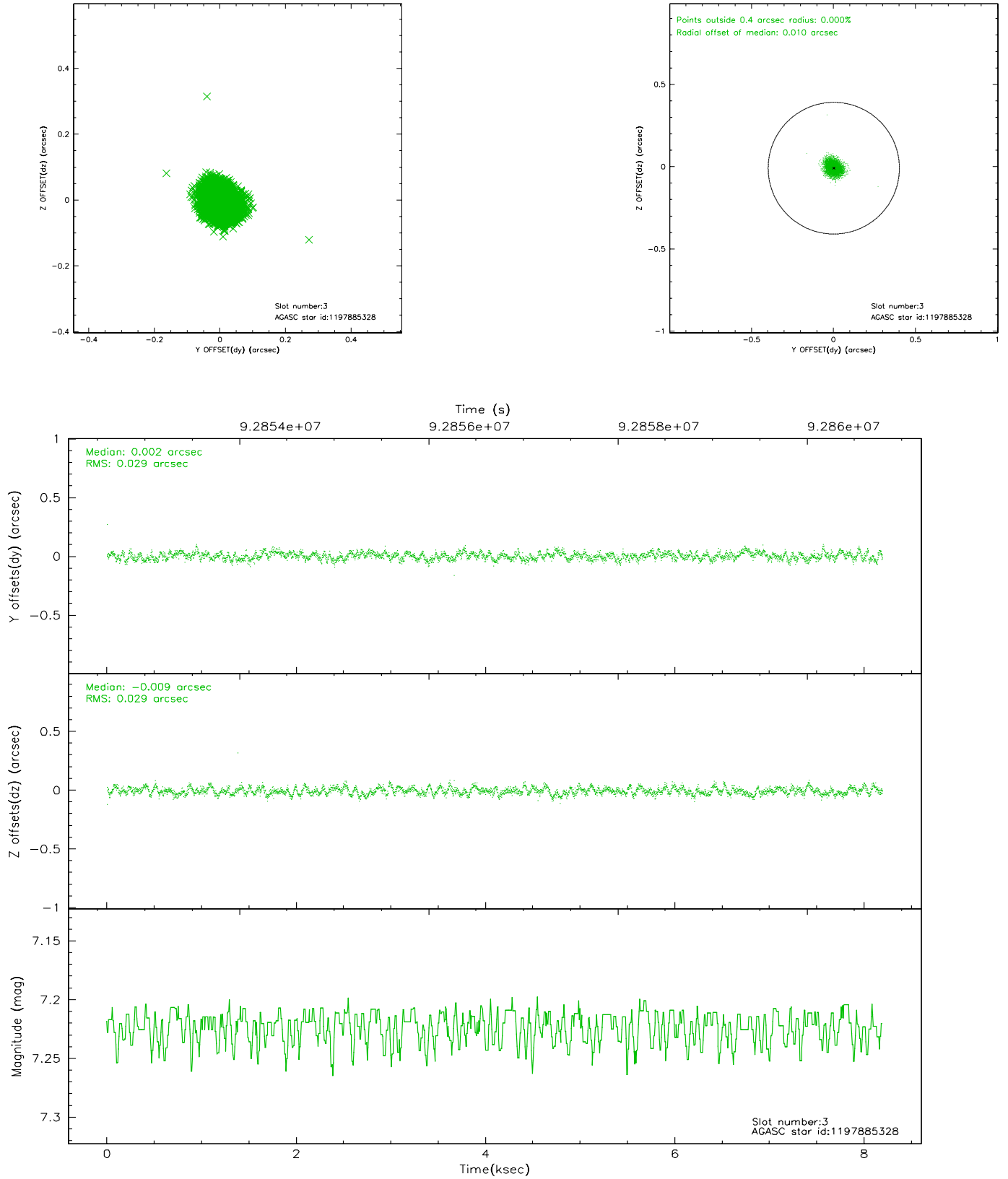
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2000	-0.011	0.019	0.006	0.011	0.000000	0.000000	-755.13	-1728.00
1	FID	ACIS-S-4	7.20	2000	-0.064	0.000	0.005	0.009	0.000000	0.000000	2157.80	179.75
2	FID	ACIS-S-5	7.23	2000	0.044	-0.011	0.006	0.011	0.000000	0.000000	-1807.03	174.20
3	GUIDE	1197885328	7.22	3999	0.002	-0.009	0.045	0.069	16.283090	-71.733943	-349.09	902.39
4	GUIDE	1198189696	7.38	3999	-0.057	-0.026	0.058	0.094	15.223750	-72.697522	1924.11	-1964.81
5	GUIDE	1197750936	7.55	3998	-0.088	-0.050	0.050	0.075	15.387940	-71.549550	-1459.09	414.14
6	GUIDE	1197884536	8.49	3999	0.021	0.071	0.069	0.108	17.160729	-71.835289	504.76	1517.98
7	GUIDE	1197884712	8.30	3997	0.127	0.013	0.055	0.089	16.087398	-72.252690	1089.49	-308.15

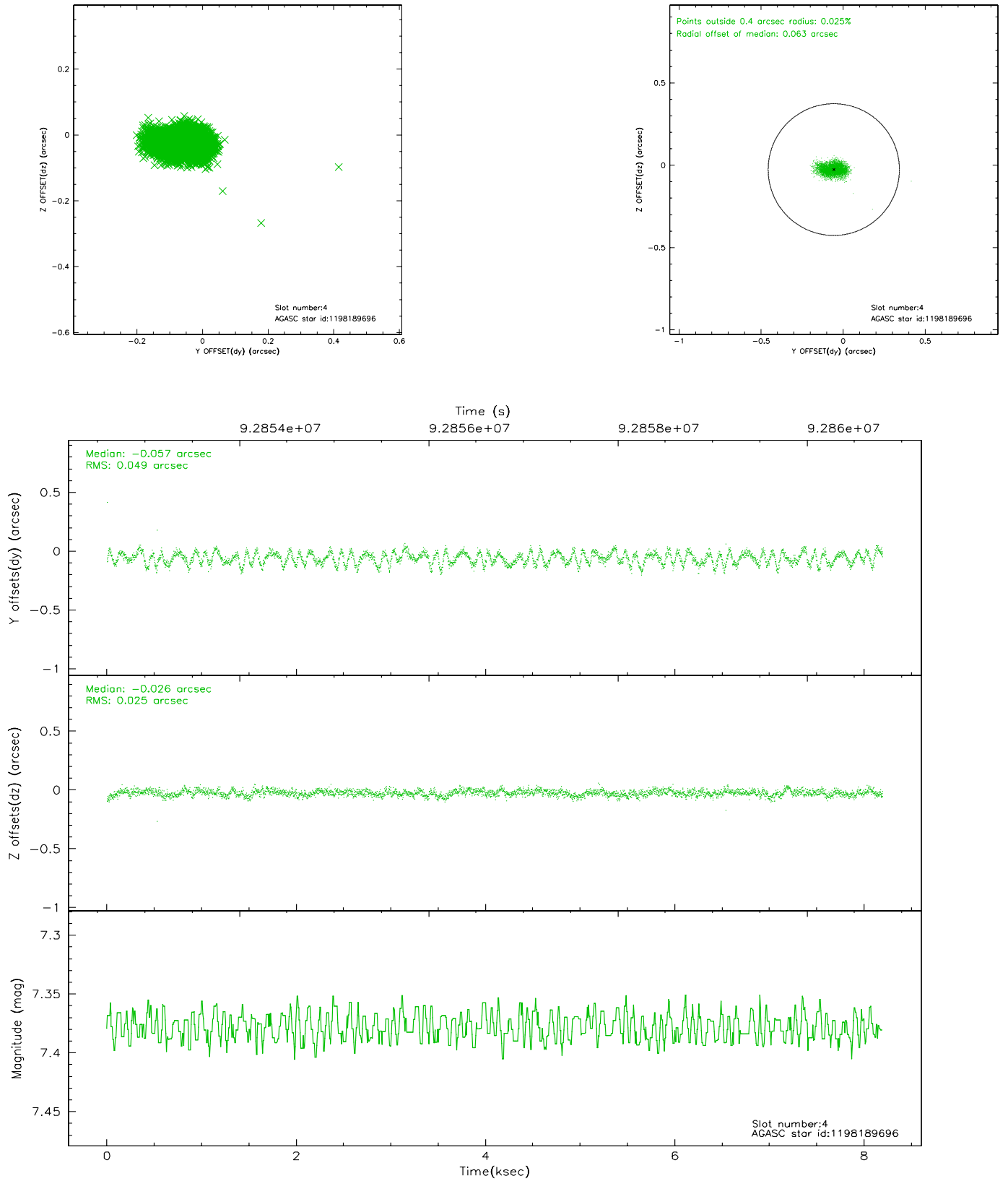


## 2.4 Star Slots

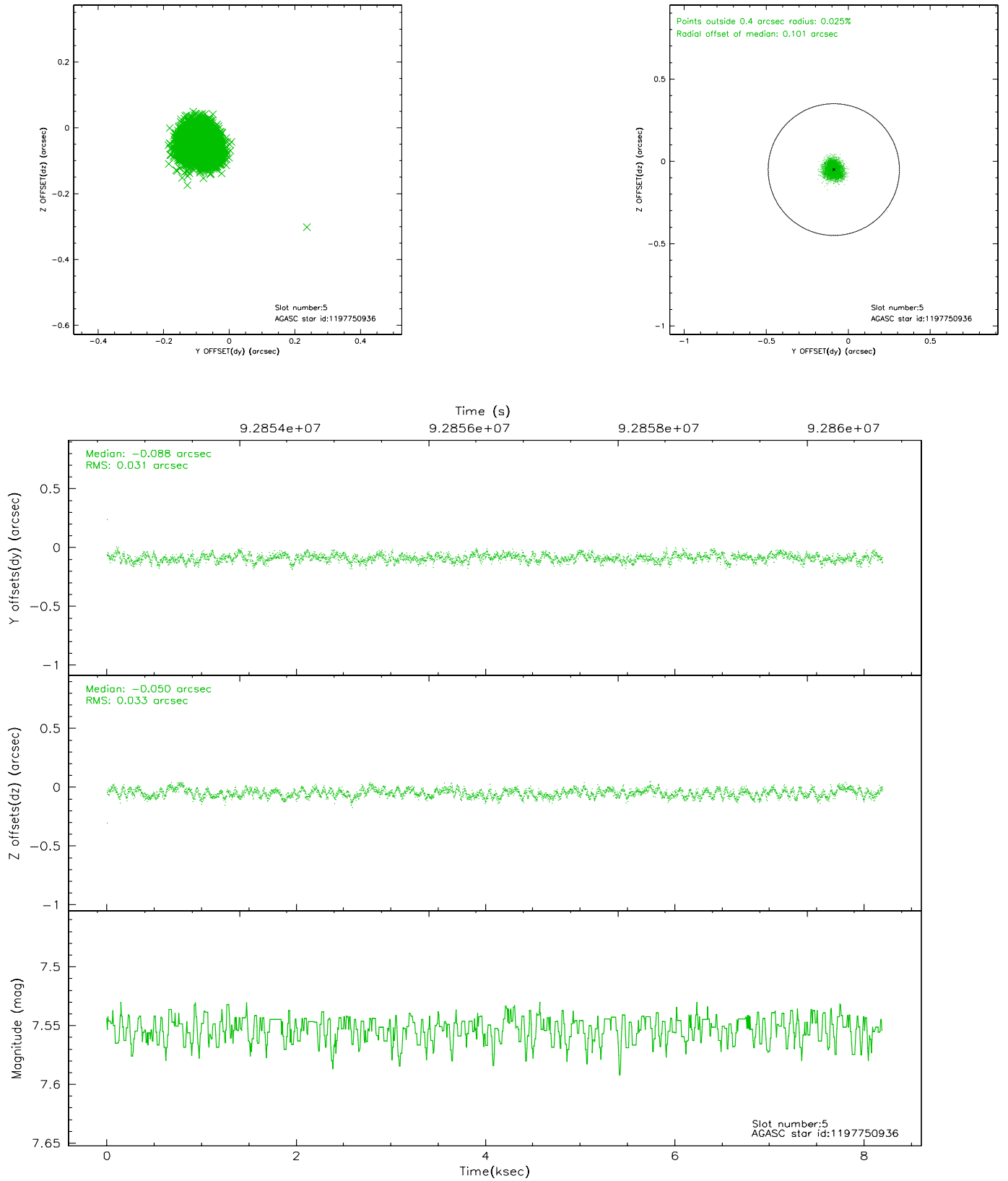
### 2.4.1 Slot 3



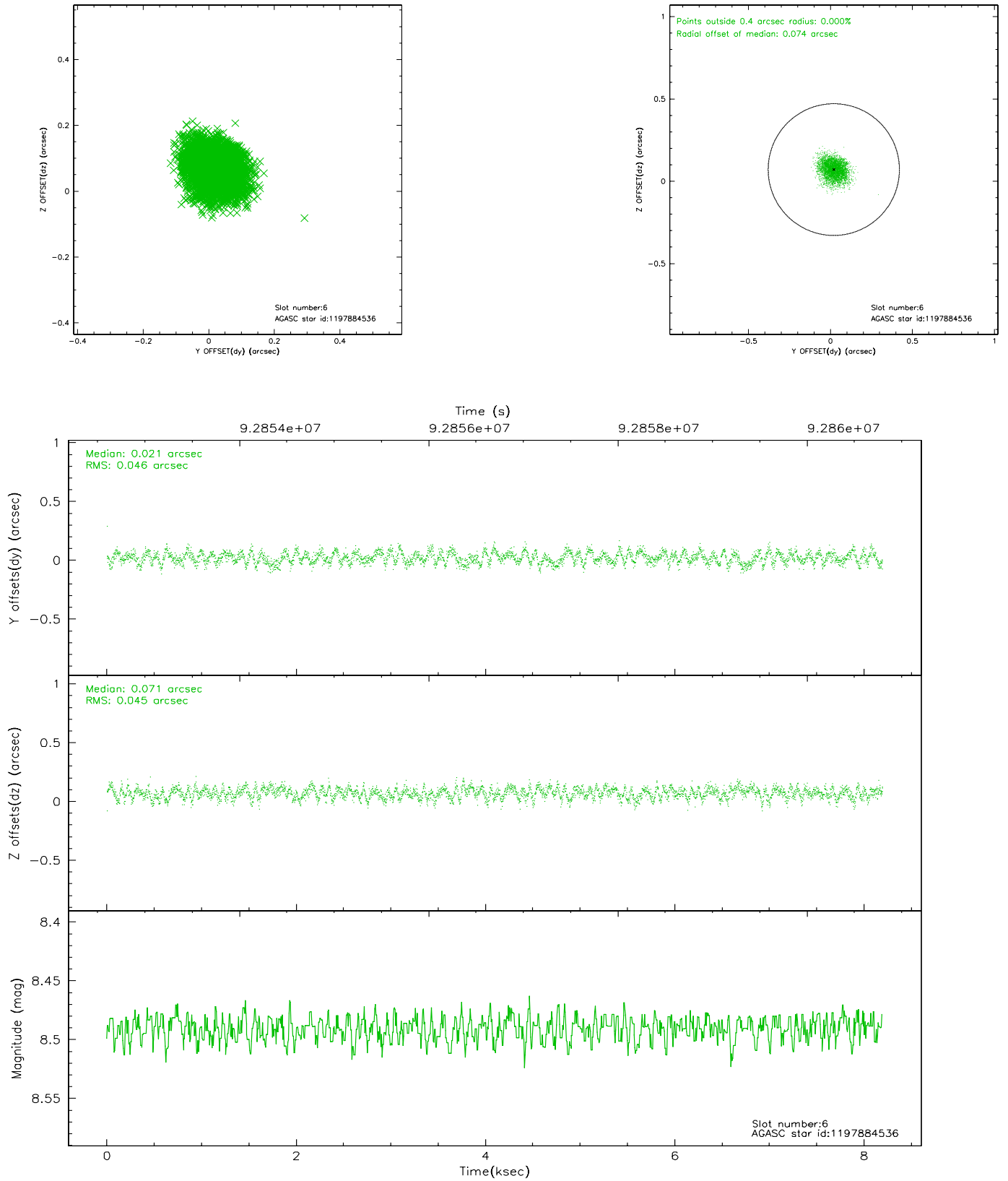
## 2.4.2 Slot 4



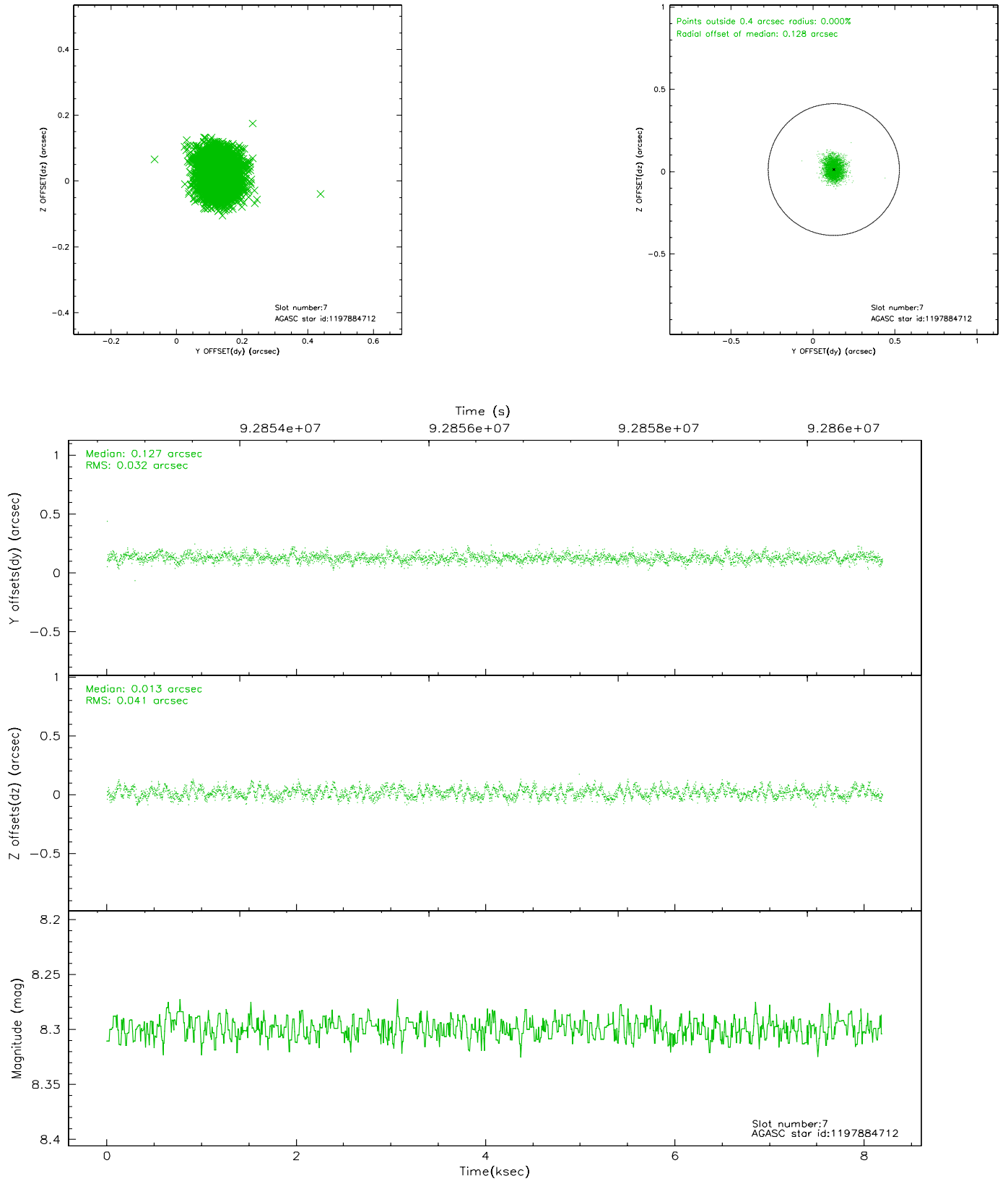
### 2.4.3 Slot 5



## 2.4.4 Slot 6

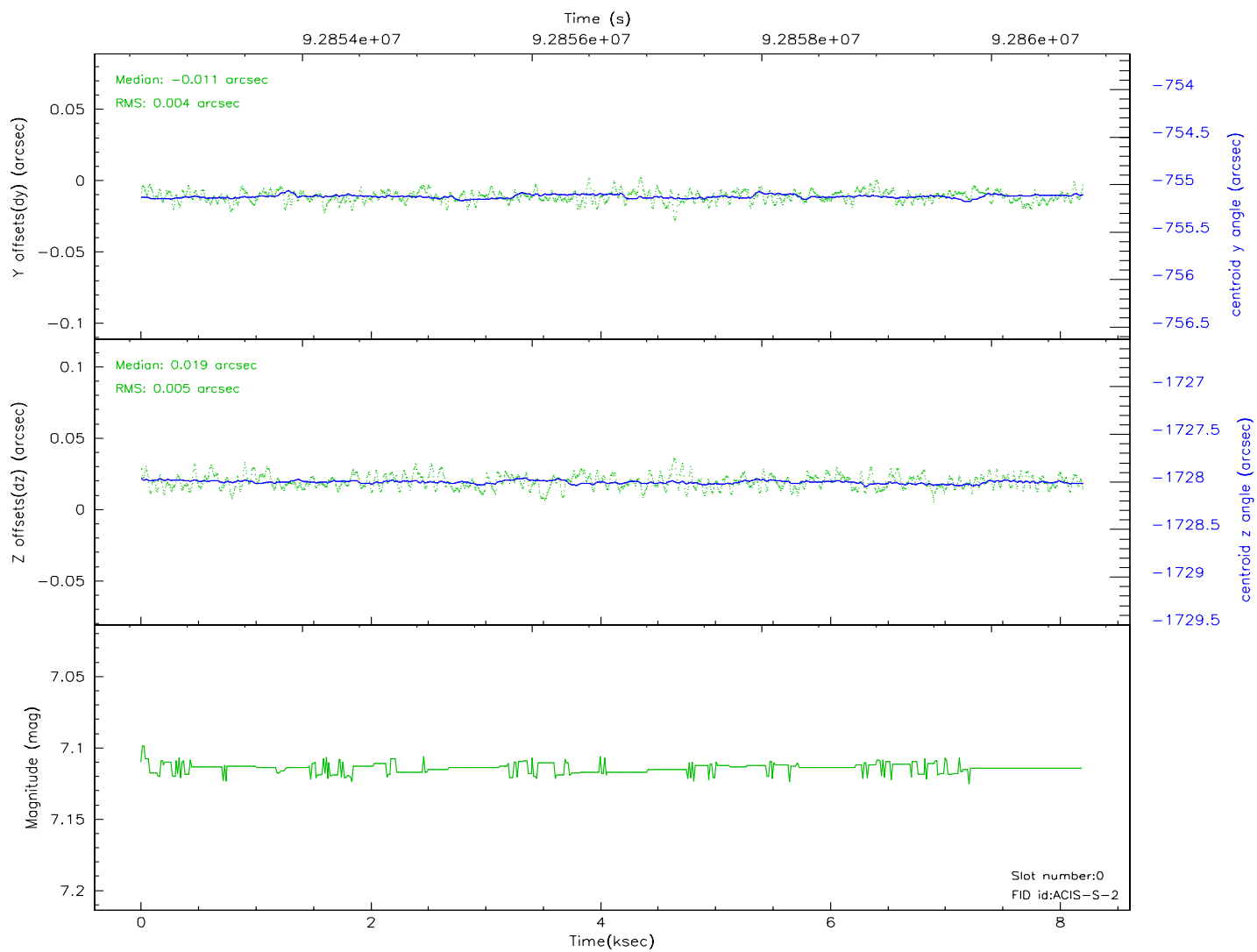
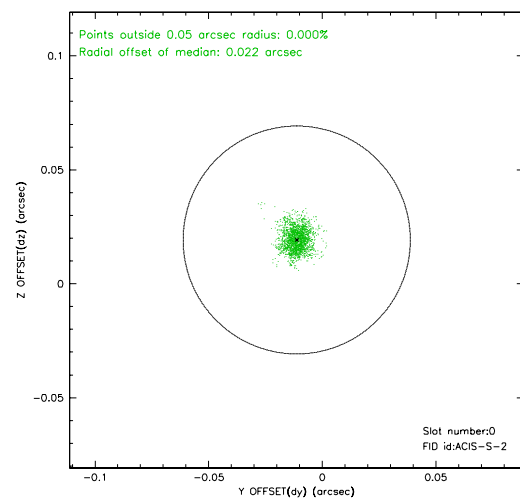
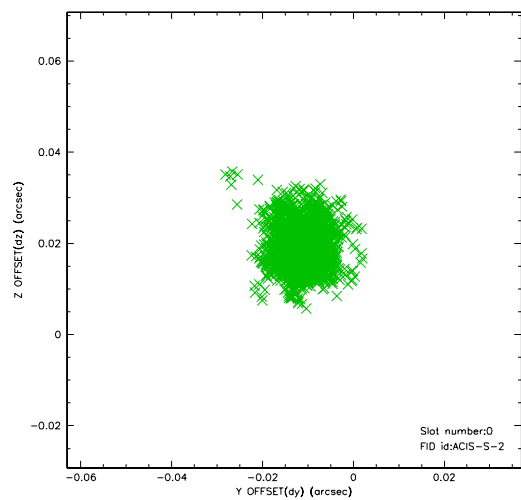


## 2.4.5 Slot 7

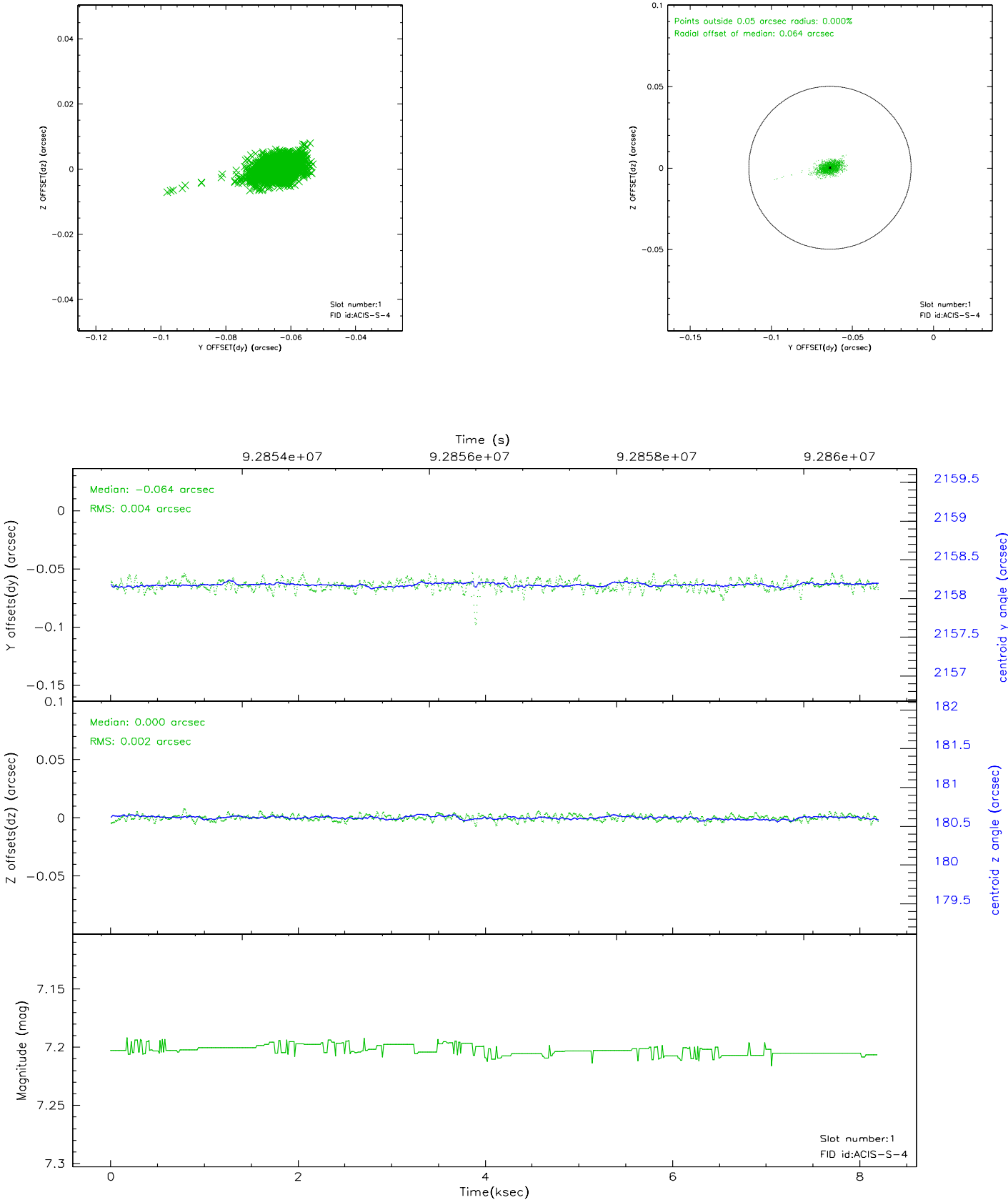


## 2.5 FID Slots

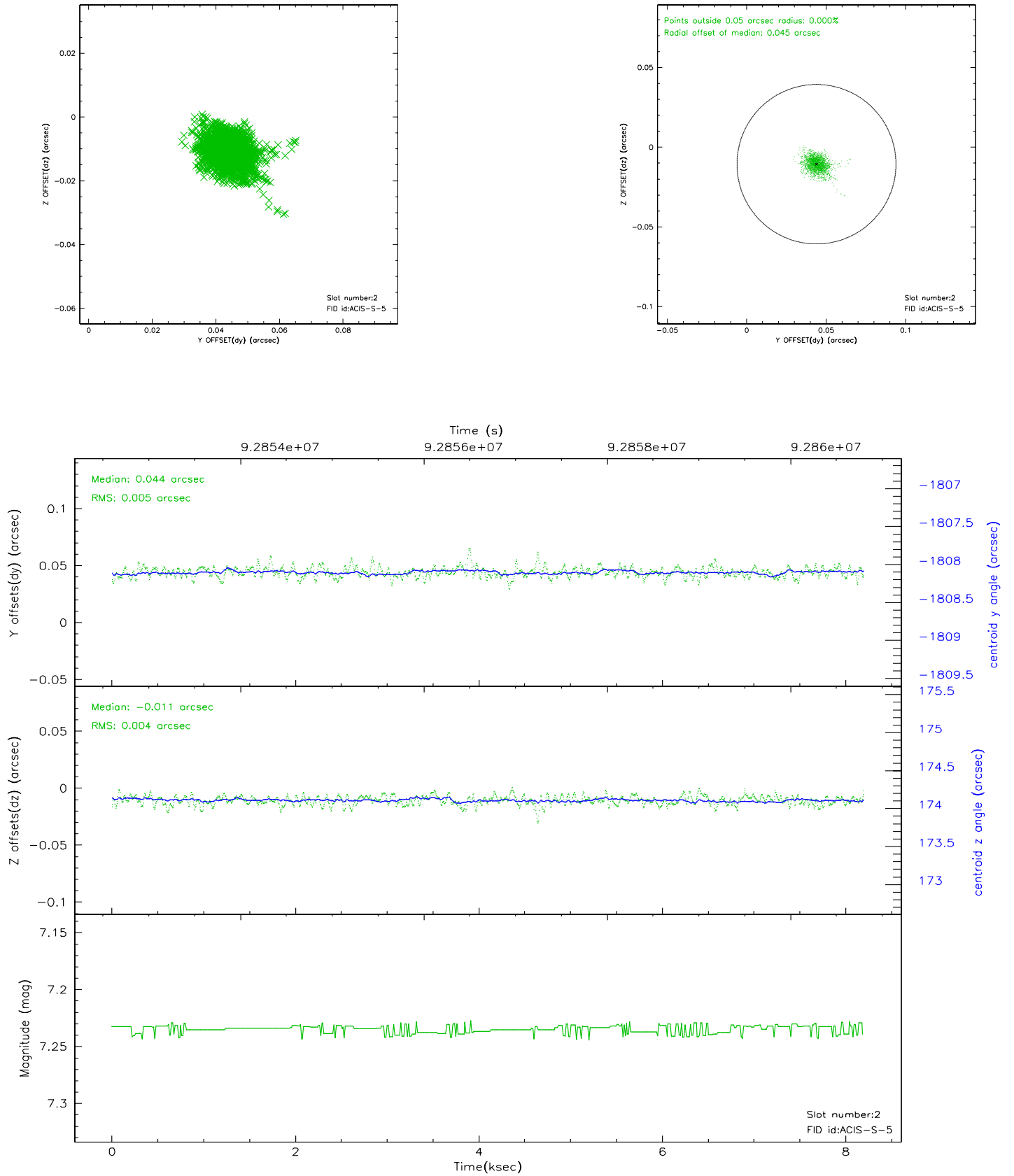
### 2.5.1 Slot 0



2.5.2 Slot 1

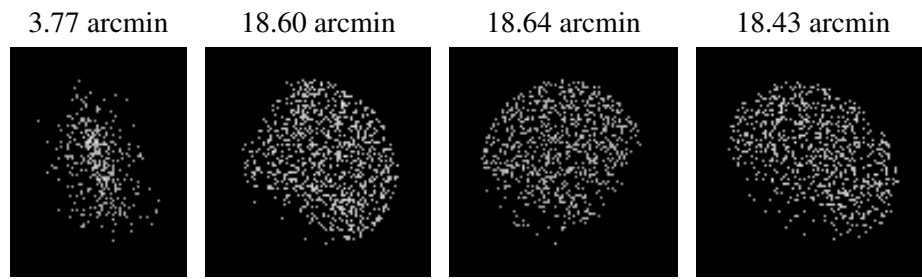


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756

### A.2 Comments