

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1747 - L2 Version 001  
Chandra X-Ray Center

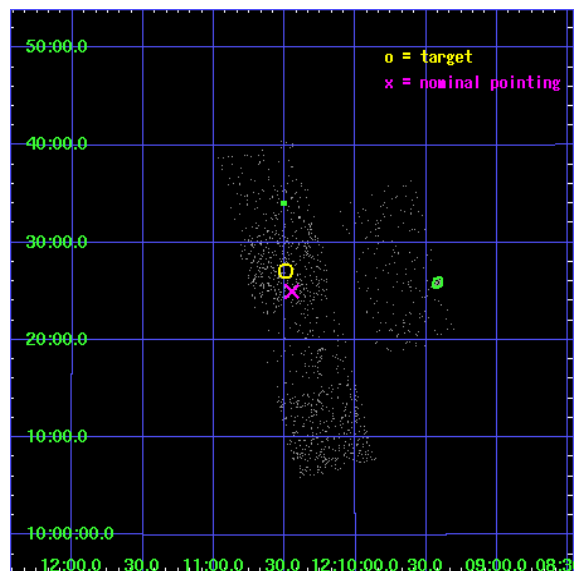
L2 Processing Date : Jun 1 2007

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# 1 Front

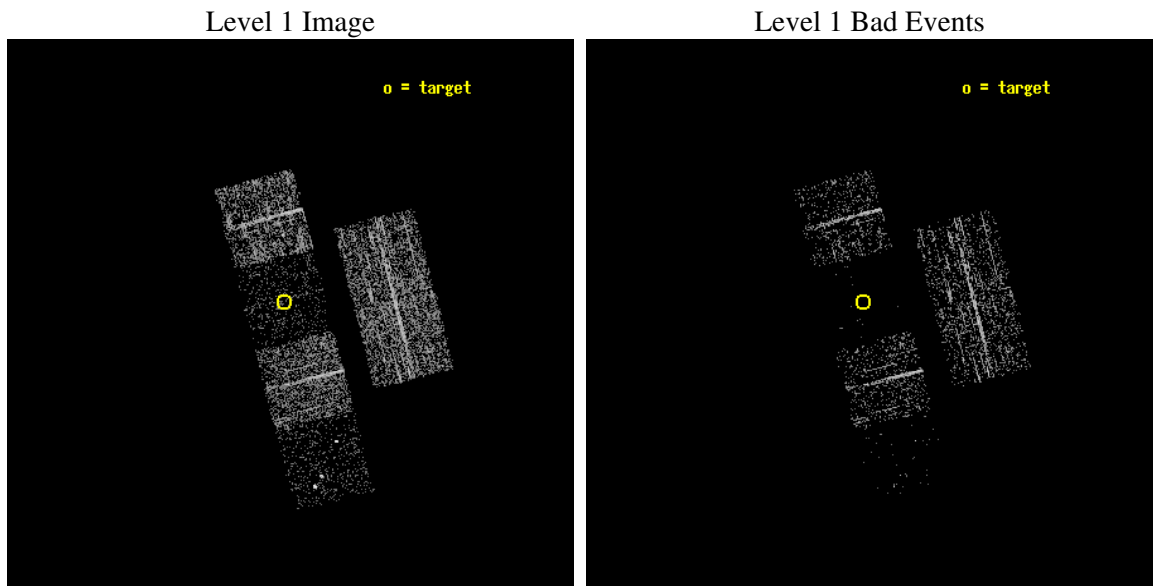
seq_num	100018
obs_id	1747
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2
observer	Dr. Carey Lisse
object	Comet c/LINEAR 1999 S4
dtcycle	0
cycle	P
ra_targ	182.62338
dec_targ	10.45266
ra_nom	182.61222190538
dec_nom	10.416613390667
roll_nom	255.59669316782
revision	4
ontime	1193.6000011116
livetime	1178.4859191979
ontime2	1193.6000011116
ontime3	1193.6000011116
ontime5	1193.6000011116
ontime6	1193.6000011116
ontime7	1193.6000011116
ontime8	1193.6000011116
l2events	1397



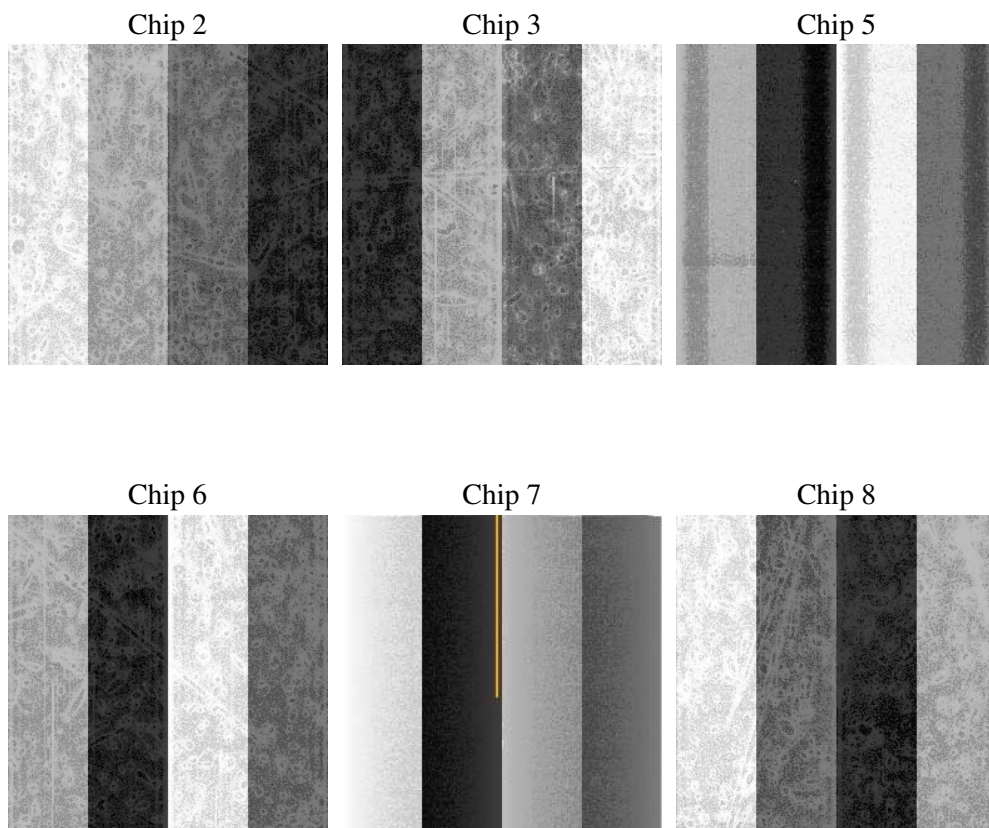
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-01T15:54:08
revision	4

sched_exp_time	1270.000000
ontime	1193.6000011116
ontime2	1193.6000011116
ontime3	1193.6000011116
ontime5	1193.6000011116
ontime6	1193.6000011116
ontime7	1193.6000011116
ontime8	1193.6000011116
l1events	24046

### 2.1.4 Events

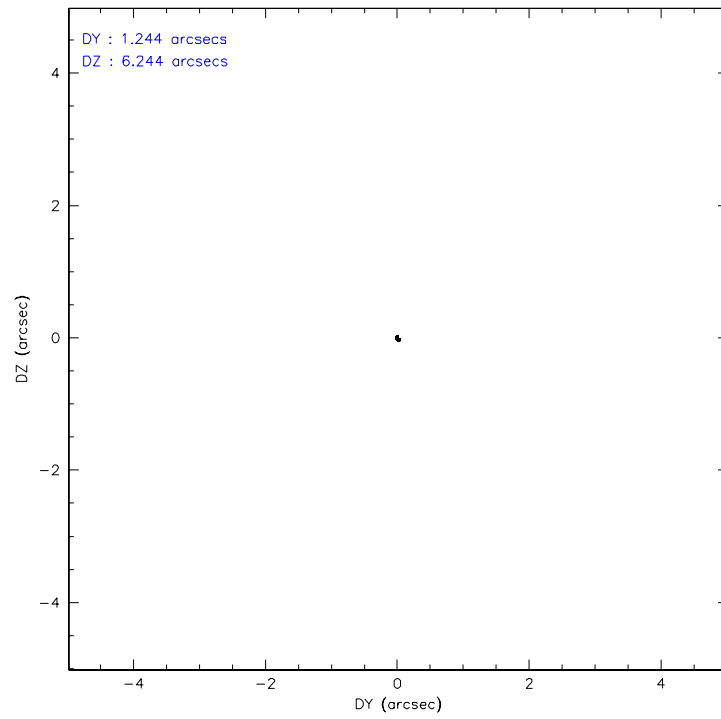
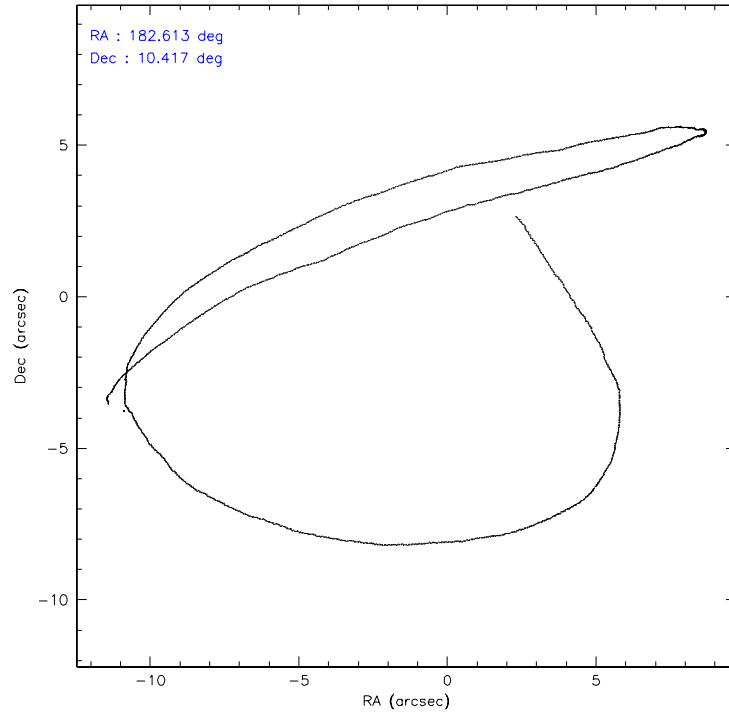
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6088	5538	1251	4714	767	5688
rejected events	5888	5407	432	4543	234	4620
rejected %	96%	97%	34%	96%	30%	81%

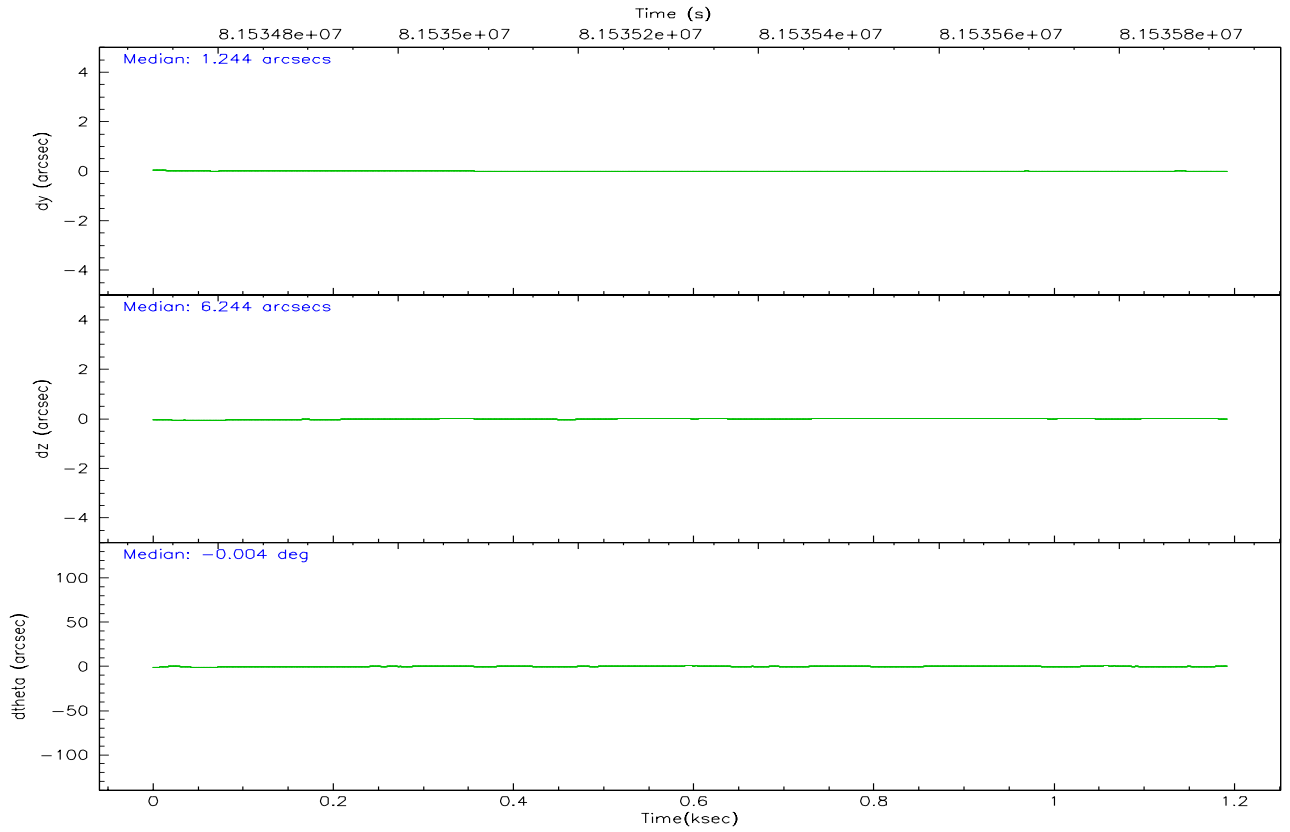
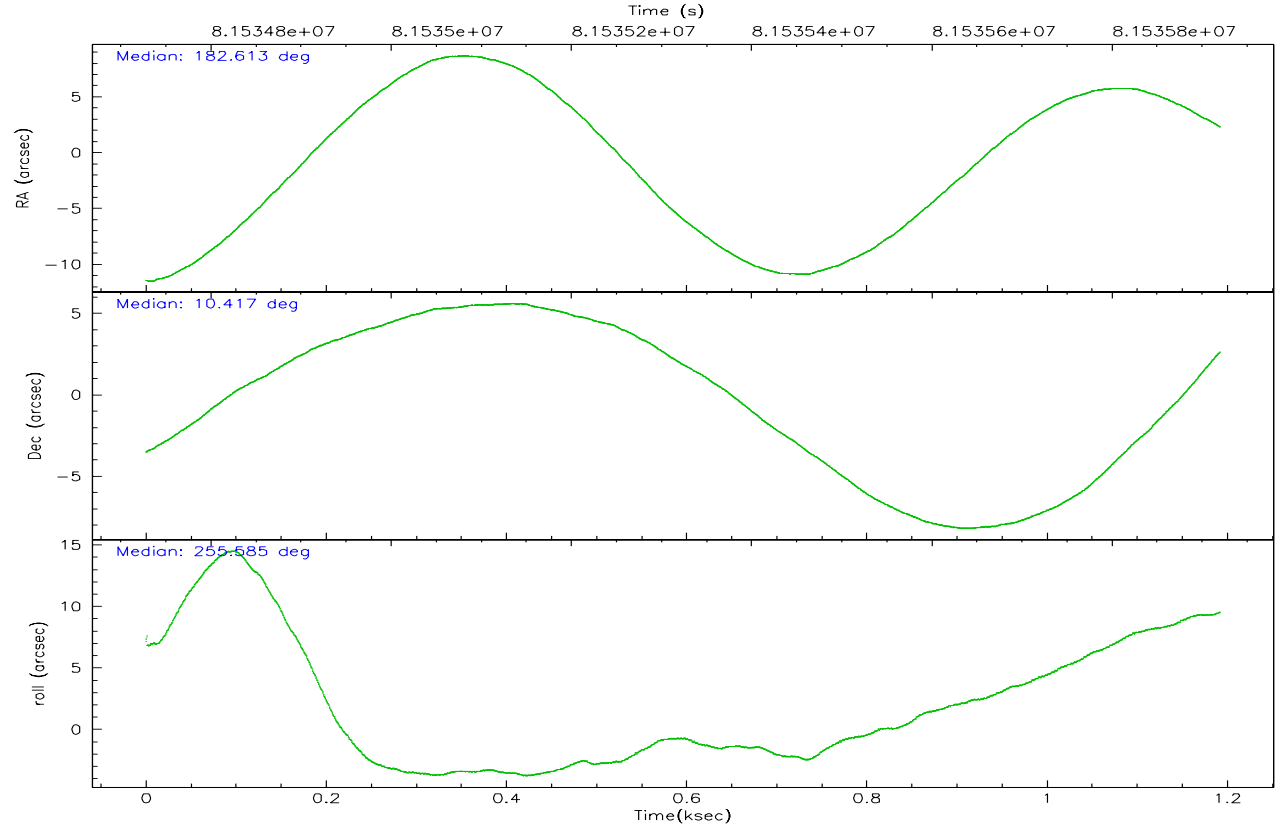
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	131	65	518	115	198	373
	2%	1%	41%	2%	25%	6%
grade 1 events	0	0	11	1	2	2
	0%	0%	0%	0%	0%	0%
grade 2 events	36	22	315	35	228	299
	0%	0%	25%	0%	29%	5%
grade 3 events	27	34	77	27	112	141
	0%	0%	6%	0%	14%	2%
grade 4 events	32	28	73	31	83	144
	0%	0%	5%	0%	10%	2%
grade 5 events	2	6	37	3	15	21
	0%	0%	2%	0%	1%	0%
grade 6 events	20	12	60	18	56	286
	0%	0%	4%	0%	7%	5%
grade 7 events	5840	5371	160	4484	73	4422
	95%	96%	12%	95%	9%	77%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	182.604388	182.6122219053831	Subarray requested	NONE	NONE
Pointing Dec	10.443049	10.41661339066746	Alternating exposures requested	N	N
Pointing Roll	255.441576	255.5966931678234	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	81534650.184000	81534544.12861501			
Observation start date	2000-08-01T16:29:46	2000-08-01T16:29:04			
Observation end time	81535920.184000	81536054.466171			
Observation end date	2000-08-01T16:50:56	2000-08-01T16:54:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect





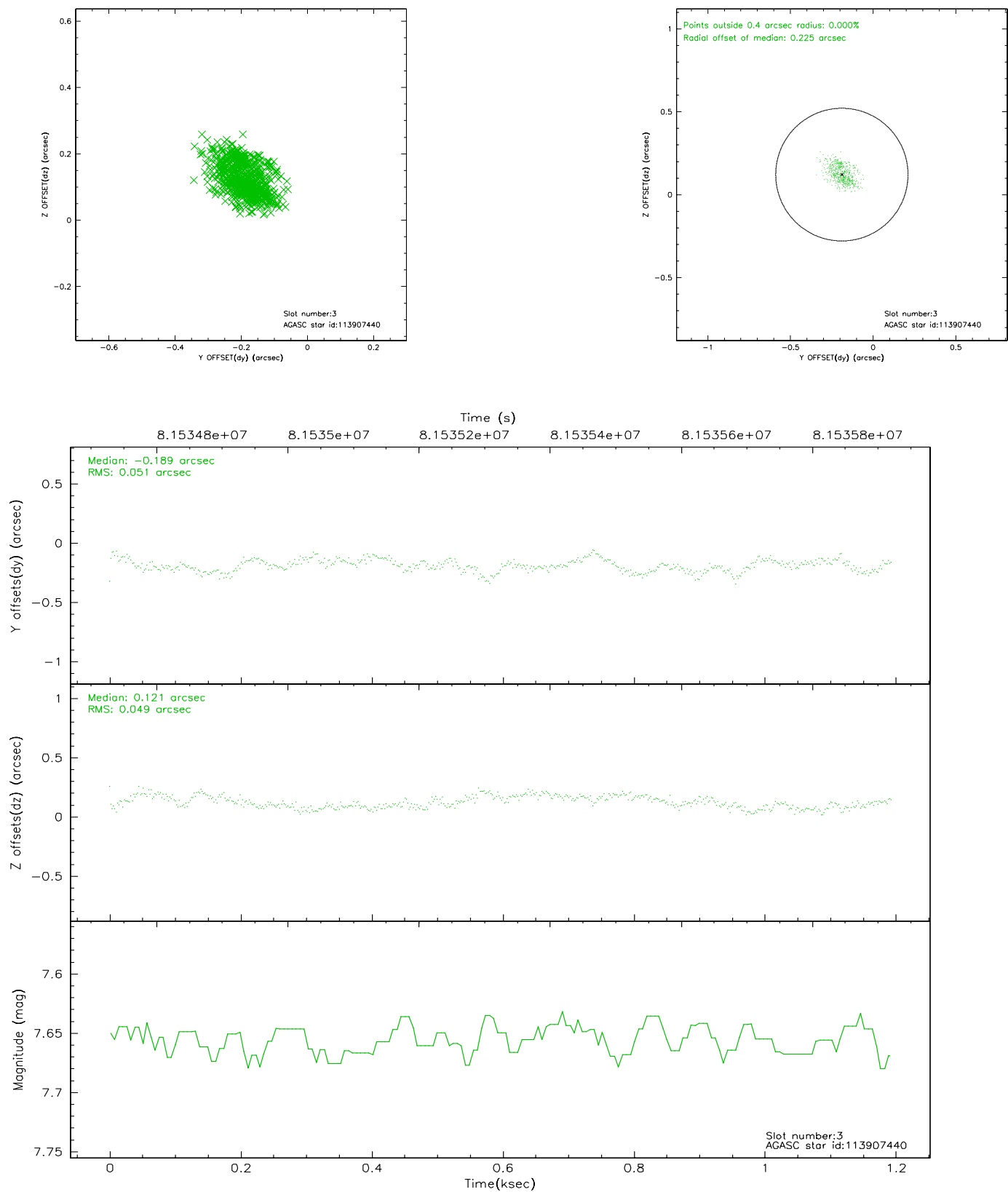
Slot Statistics

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	291	-0.034	0.017	0.006	0.013	0.000000	0.000000	-753.86	-1727.32
1	FID	ACIS-S-4	7.21	291	-0.034	0.012	0.005	0.010	0.000000	0.000000	2156.88	175.40
2	FID	ACIS-S-5	7.23	291	0.036	-0.020	0.006	0.009	0.000000	0.000000	-1799.43	175.38
3	GUIDE	113907440	7.66	583	-0.189	0.121	0.076	0.121	183.304663	10.821652	-1944.00	2051.81
4	GUIDE	113909952	9.85	583	0.066	-0.037	0.121	0.198	182.703120	10.082649	1165.02	667.11
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	113910808	10.24	582	-0.068	-0.046	0.135	0.218	183.289541	10.594003	-1135.87	2208.82
7	GUIDE	113511280	10.46	580	0.199	-0.039	0.187	0.301	182.700155	9.746408	2340.65	962.12

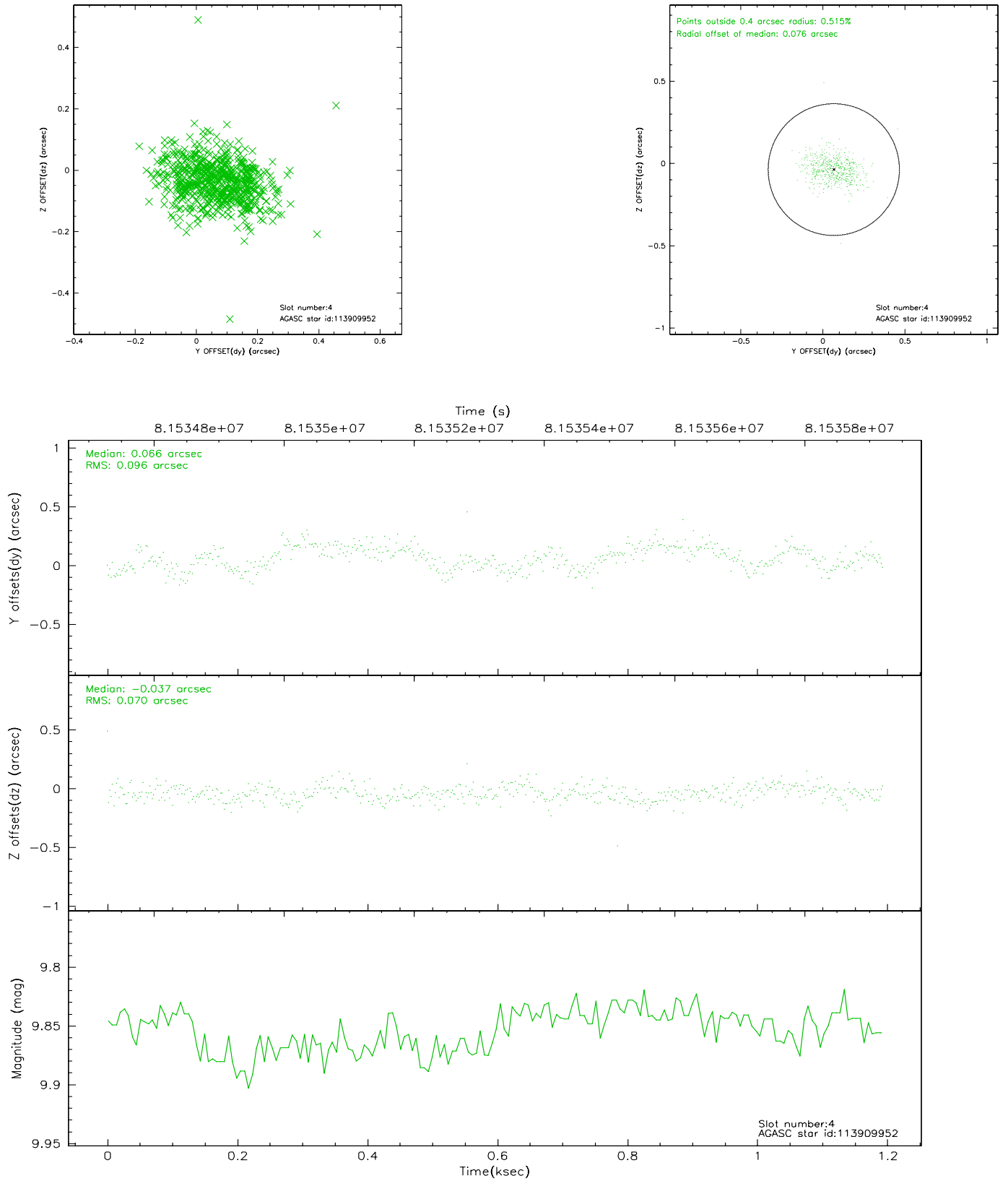


## 2.4 Star Slots

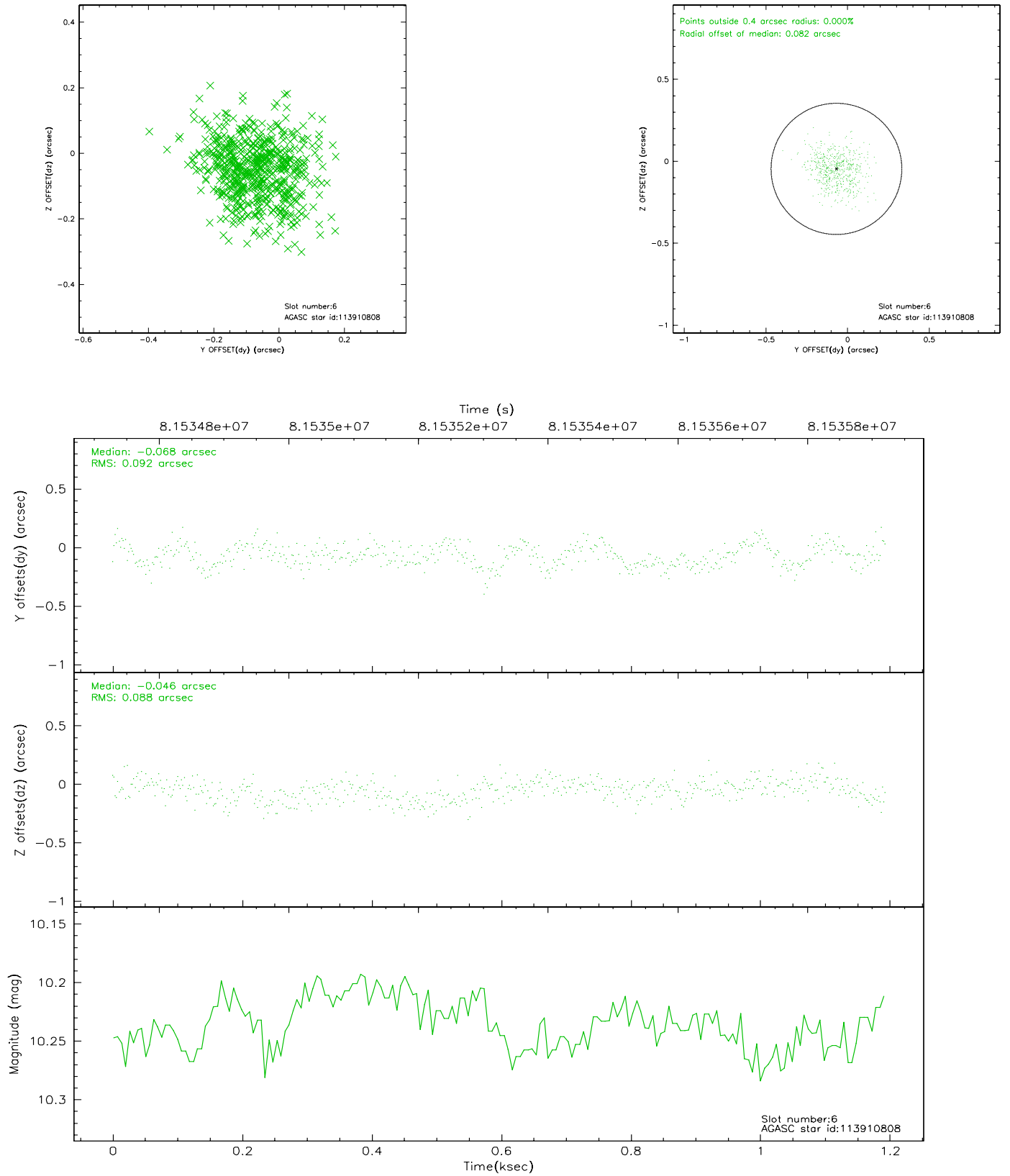
### 2.4.1 Slot 3



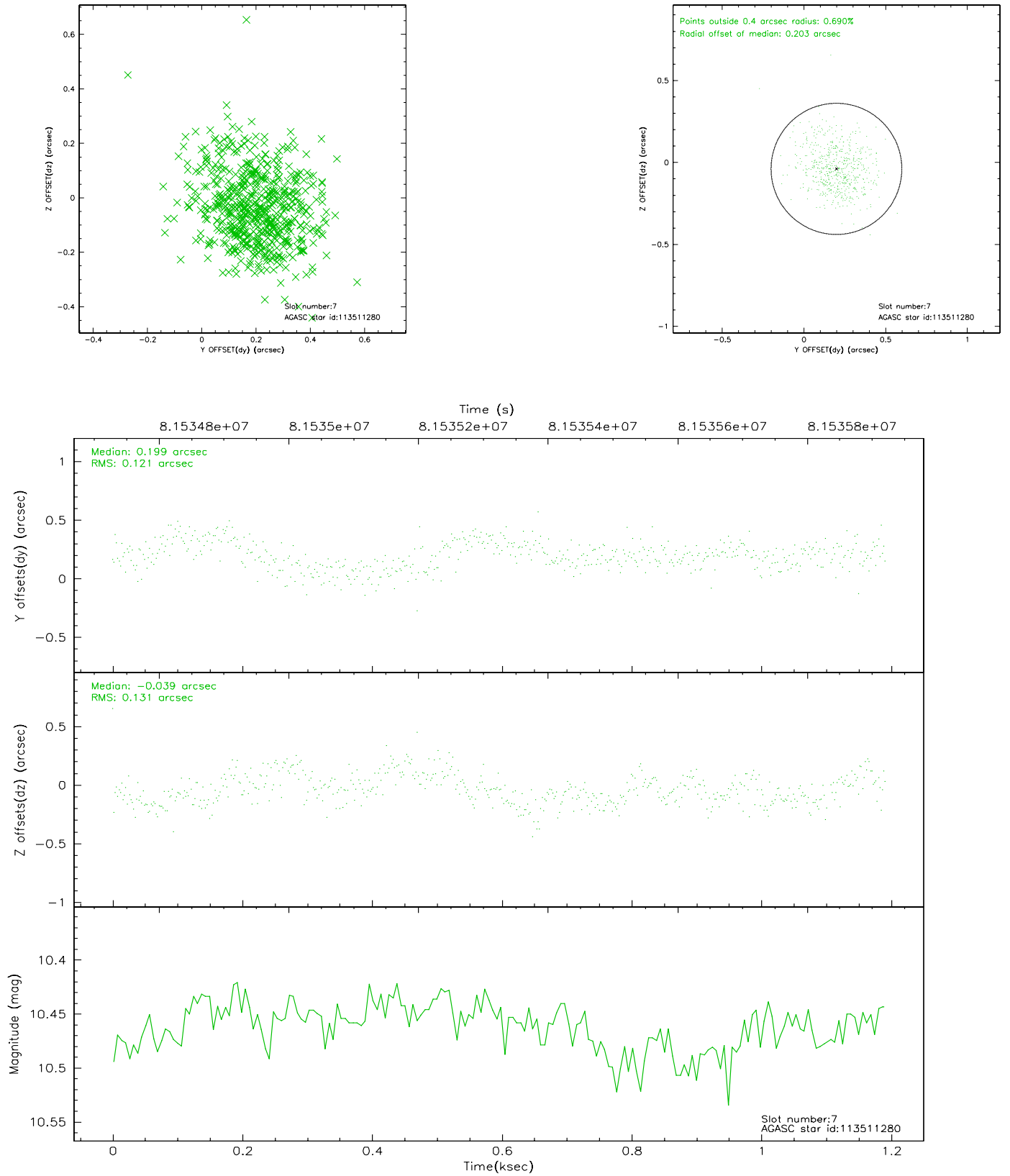
## 2.4.2 Slot 4



### 2.4.3 Slot 6

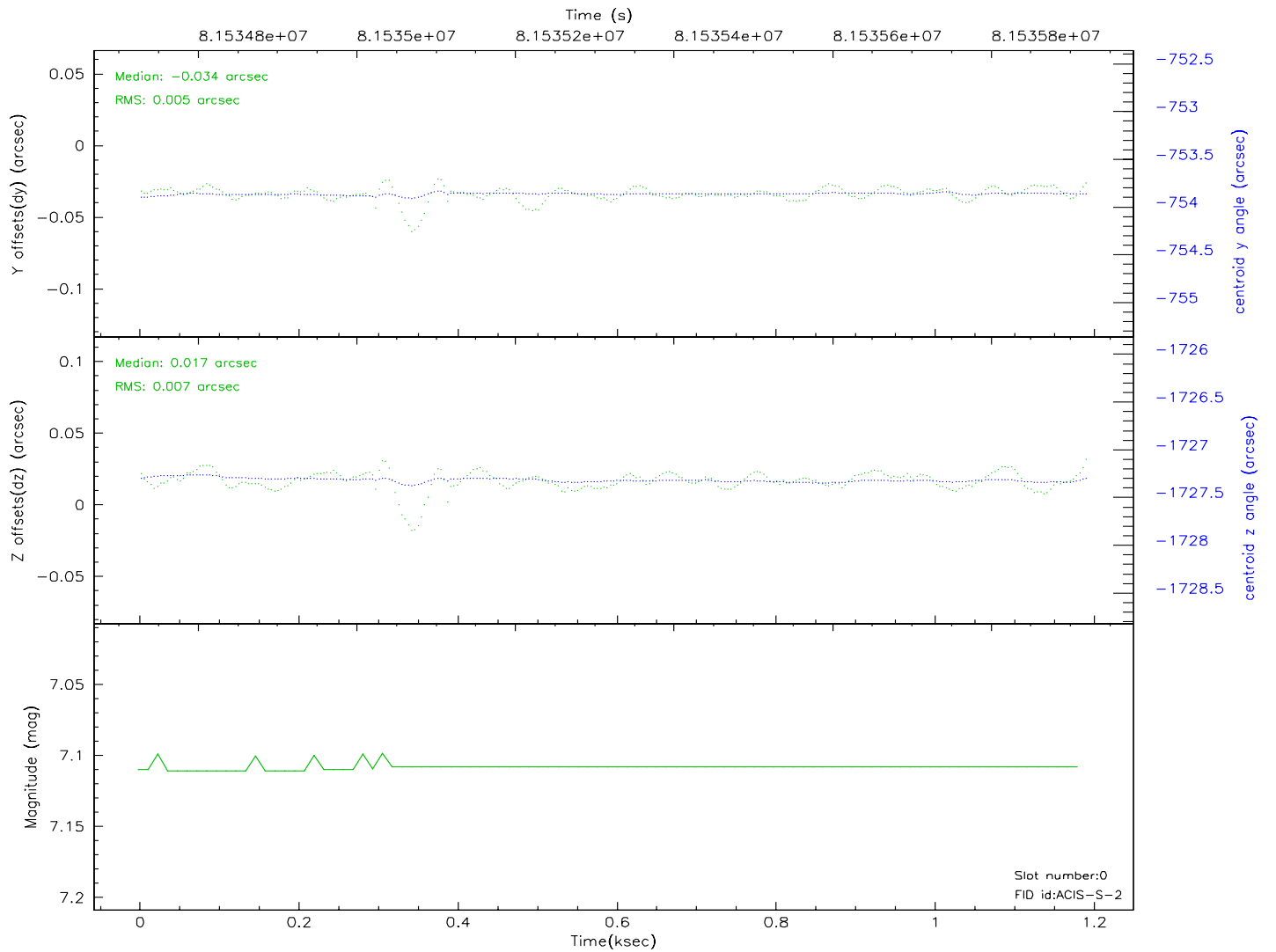
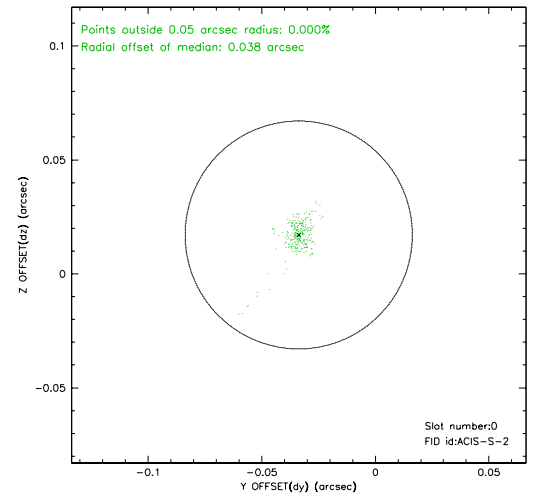
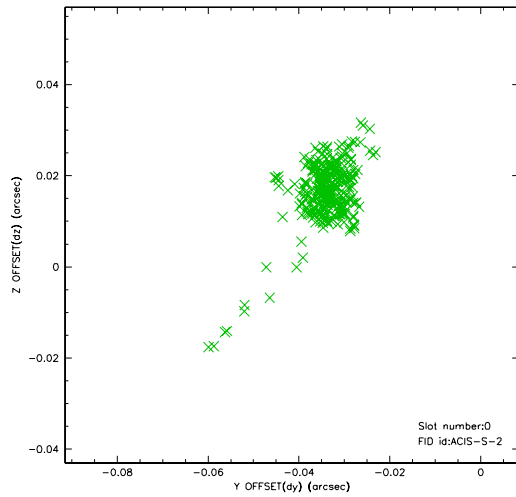


## 2.4.4 Slot 7

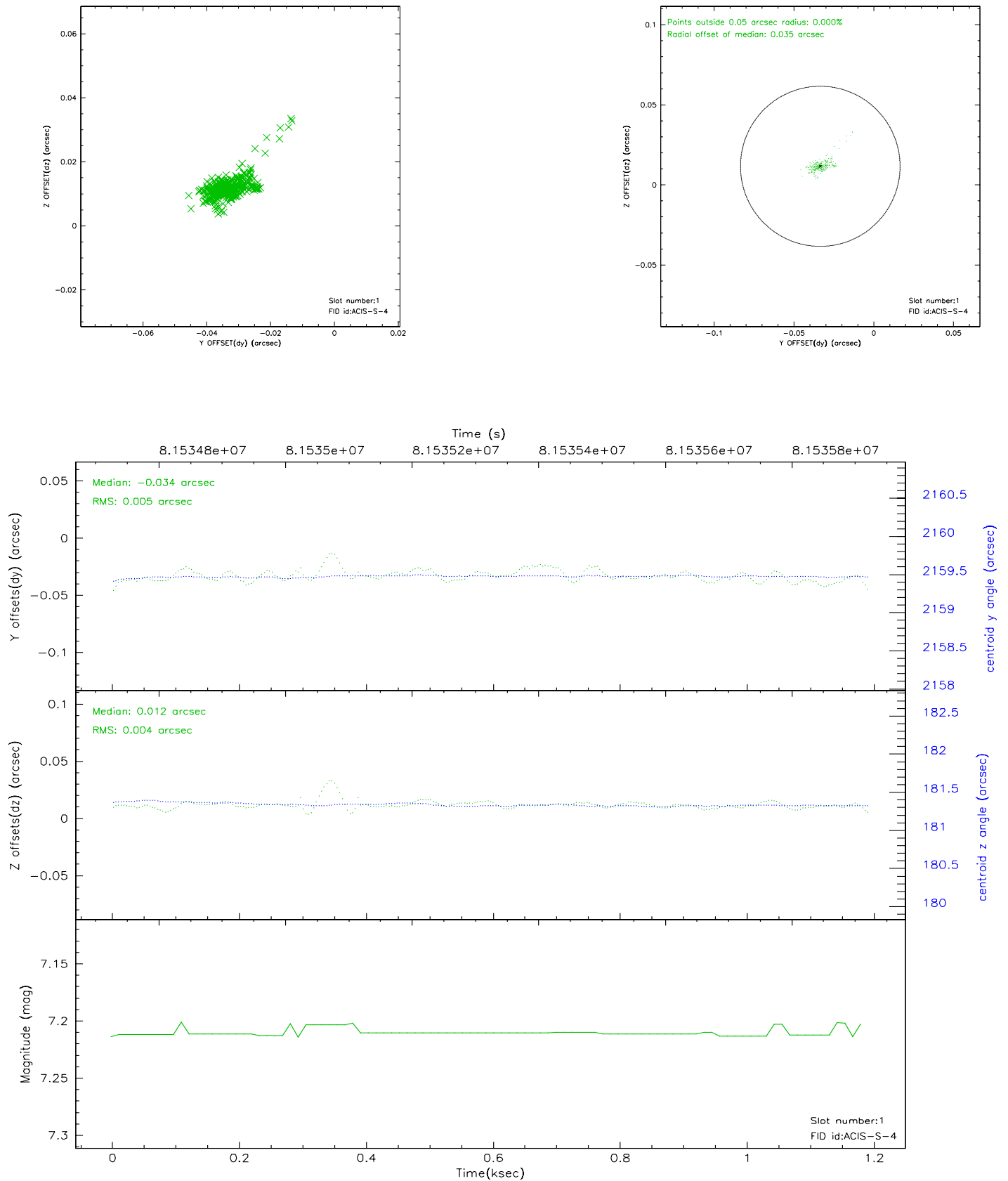


## 2.5 FID Slots

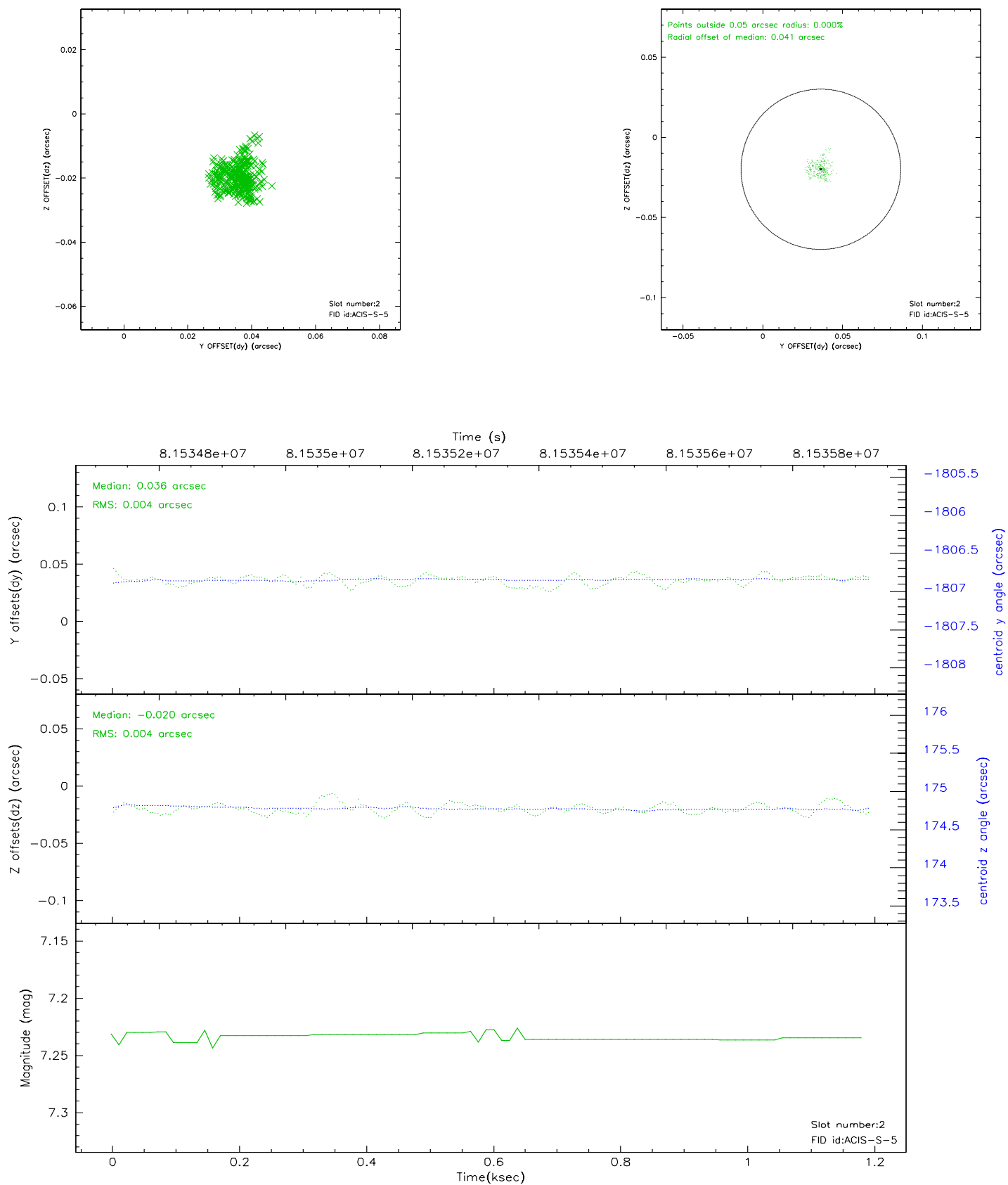
### 2.5.1 Slot 0



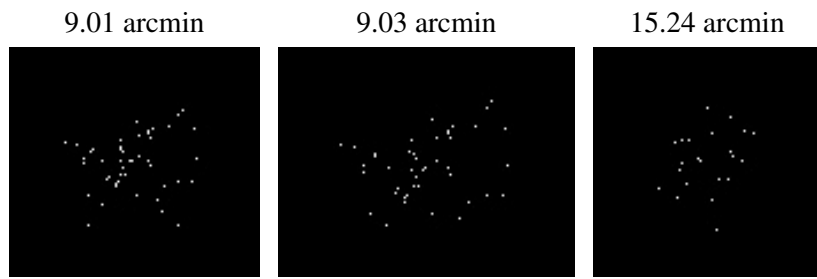
## 2.5.2 Slot 1



## 2.5.3 Slot 2



### 3 Point Sources





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	1.193

## A.2 Comments

Window constraint met.

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The guide star in slot 5 was manually excluded from the processing due to poor data quality.