

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10576 - L2 Version 2  
Chandra X-Ray Center

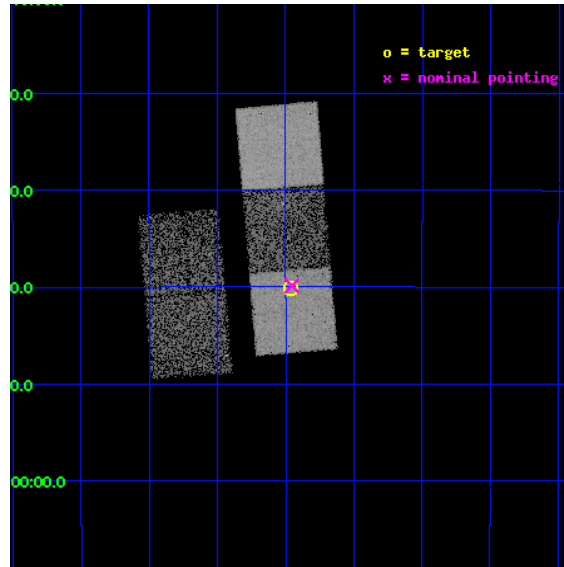
L2 Processing Date : May 20 2012

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# 1 Front

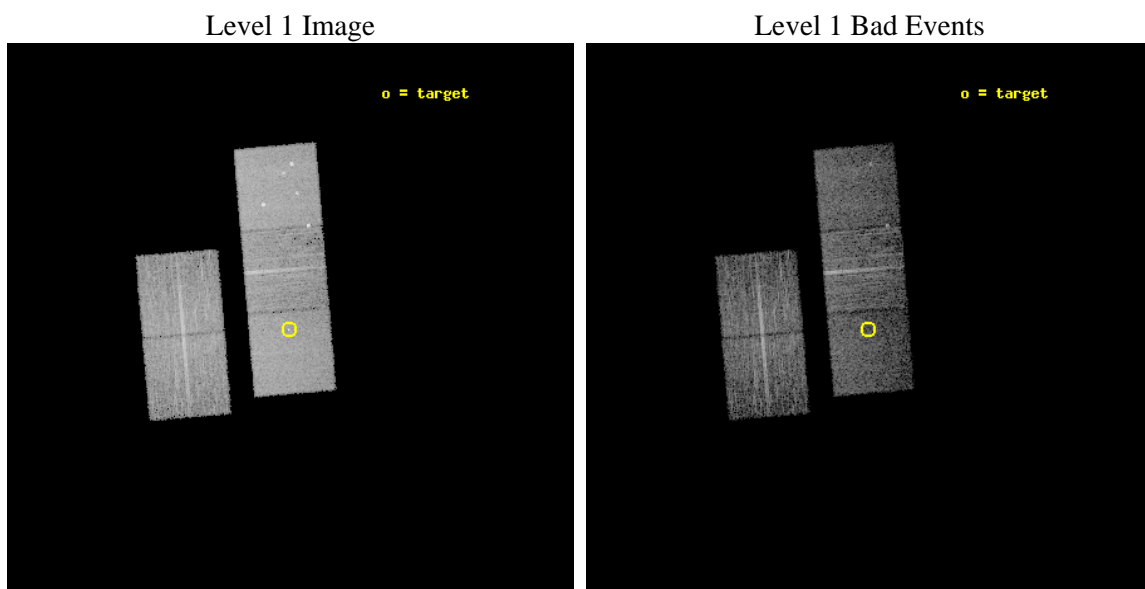
seq_num	600656	Sequence number
obs_id	10576	Observation id
title	Dust-to-gas Ratio of High Redshift Galaxies	Proposal title
observer	Prof. Xinyu Dai	Principal investigator
object	HE0047-1756	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.615833	Observer's specified target RA [deg]
dec_targ	-17.669111	Observer's specified target Dec [deg]
ra_nom	12.613594914265	Nominal RA [deg]
dec_nom	-17.664730911929	Nominal Dec [deg]
roll_nom	85.135946663956	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6131.8000471592	Sum of GTIs [s]
livetime	6051.6835653775	Livetime [s]
ontime2	6128.6590667963	Sum of GTIs [s]
ontime3	6131.8000471592	Sum of GTIs [s]
ontime5	6131.8000471592	Sum of GTIs [s]
ontime6	6131.8000471592	Sum of GTIs [s]
ontime7	6131.8000471592	Sum of GTIs [s]
l2events	72527	Number of level 2 events



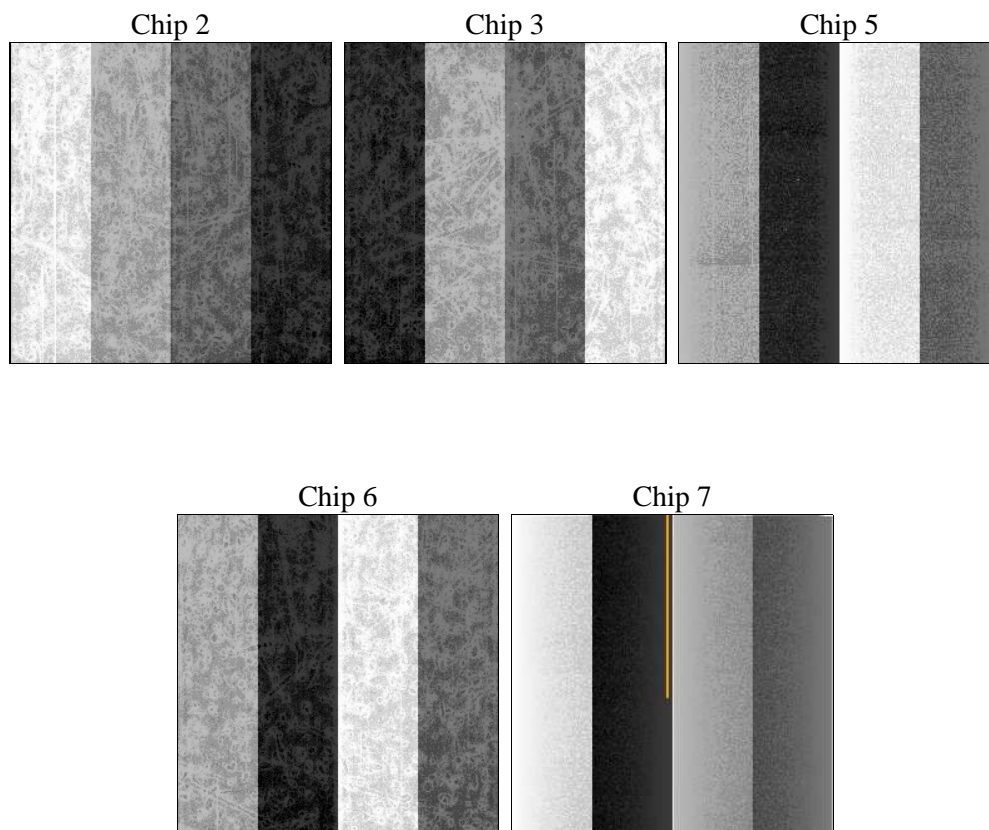
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	6131.8000471592	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	6128.6590667963	Sum of GTIs [s]
date	2012-05-20T20:49:35	Date and time of file creation	ontime3	6131.8000471592	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	6131.8000471592	Sum of GTIs [s]
			ontime6	6131.8000471592	Sum of GTIs [s]
			ontime7	6131.8000471592	Sum of GTIs [s]
			l1events	283652	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	53020	48742	73806	49887	58197
rejected events	47986	43926	36813	44484	31579
rejected %	90%	90%	49%	89%	54%

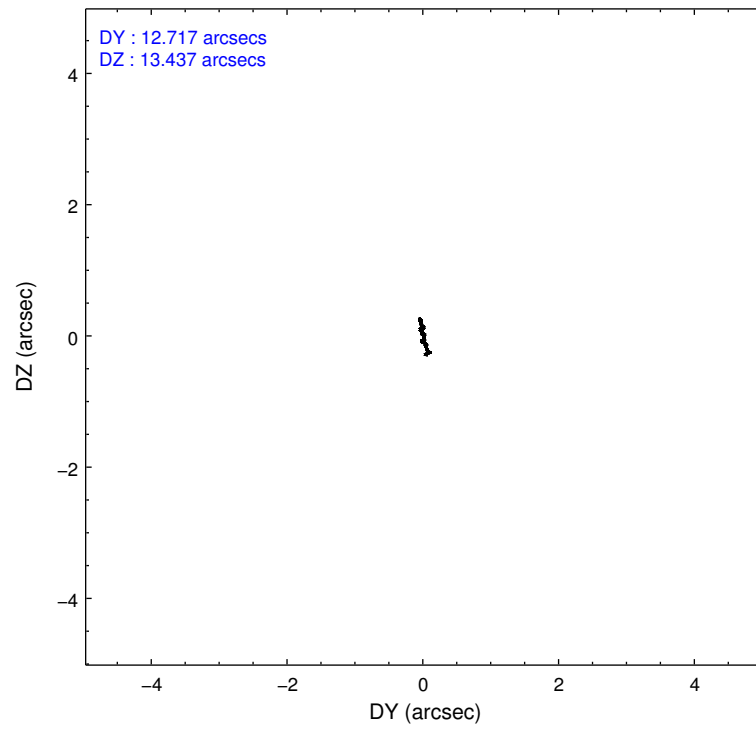
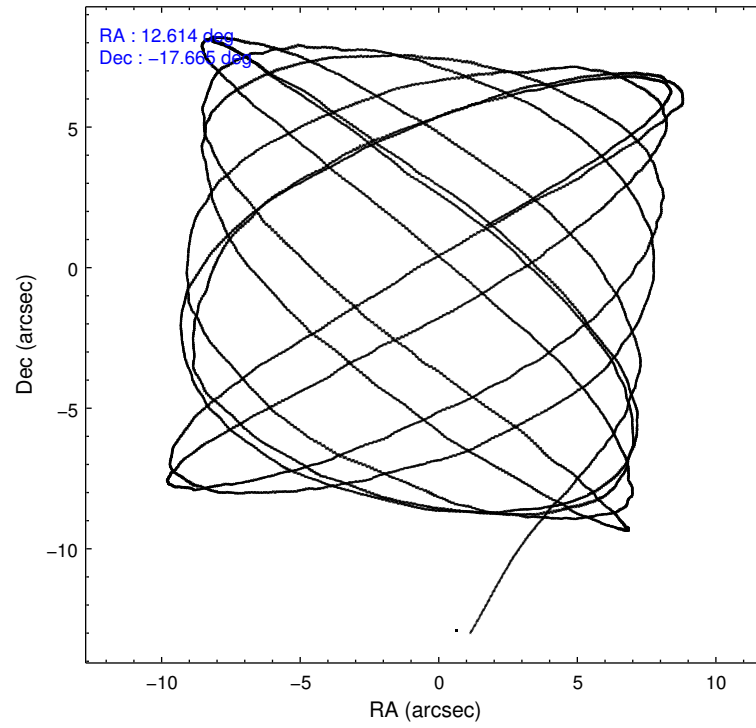
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	1788	1677	4364	2038	2580
	3%	3%	5%	4%	4%
grade 1 events	30	32	276	18	81
	0%	0%	0%	0%	0%
grade 2 events	1248	1044	11054	1112	5373
	2%	2%	14%	2%	9%
grade 3 events	508	584	1590	555	2542
	0%	1%	2%	1%	4%
grade 4 events	529	531	1470	571	2343
	0%	1%	1%	1%	4%
grade 5 events	1593	1977	5675	2064	6185
	3%	4%	7%	4%	10%
grade 6 events	964	982	18554	1129	13813
	1%	2%	25%	2%	23%
grade 7 events	46360	41915	30823	42400	25280
	87%	85%	41%	84%	43%

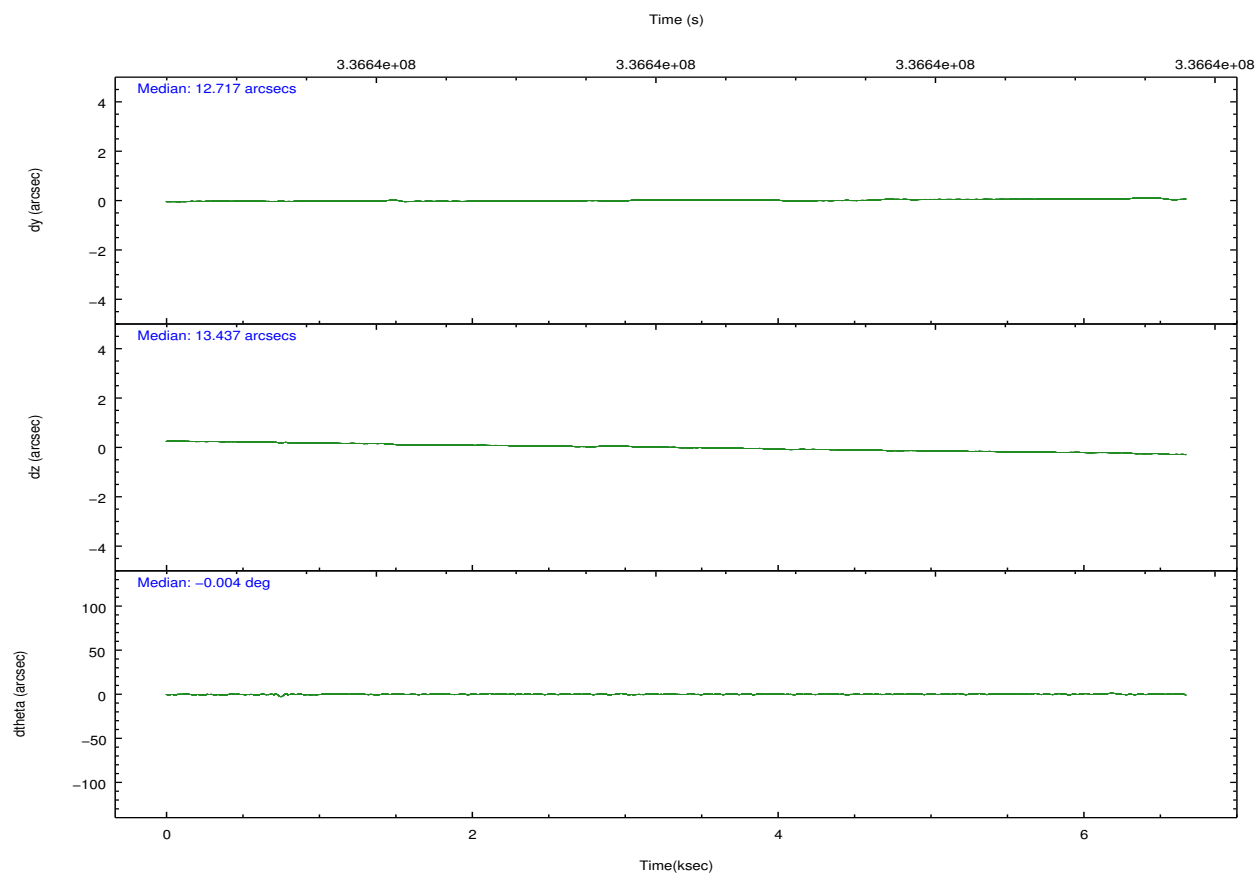
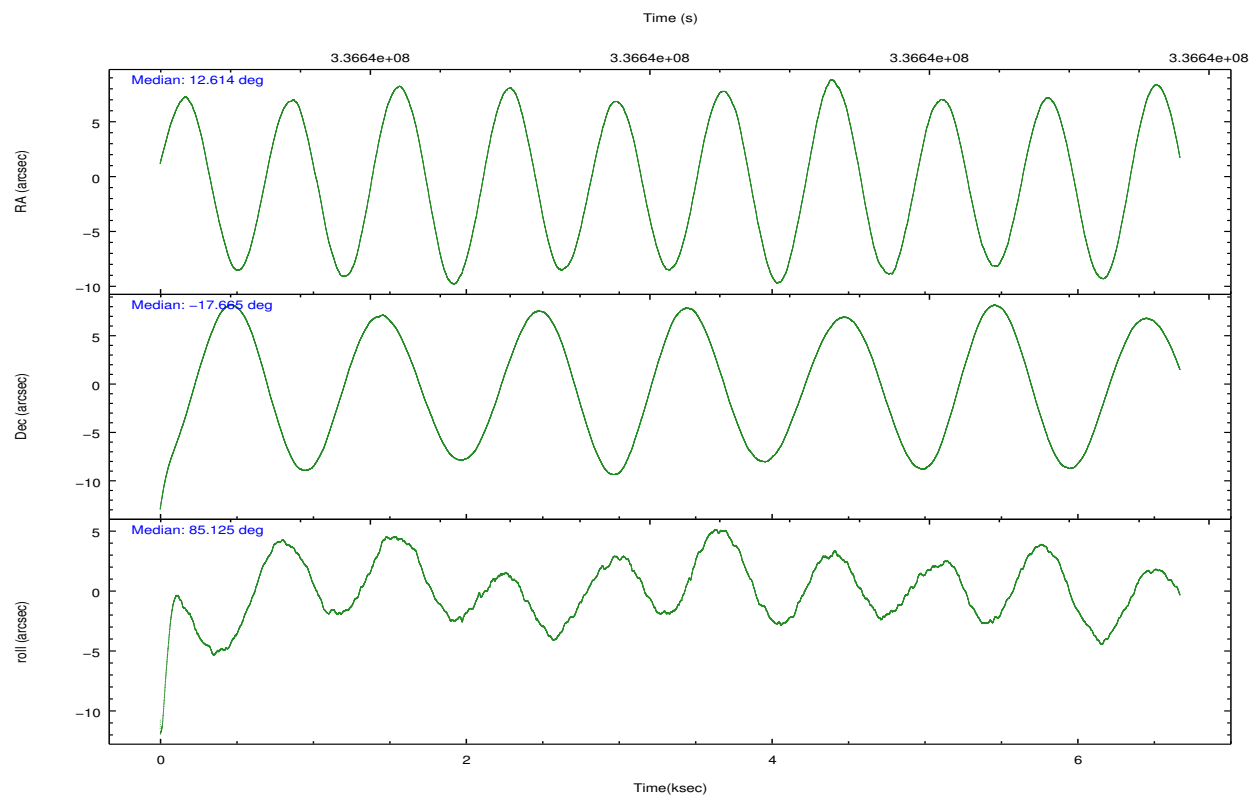


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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
[deg] Pointing RA	12.626085	12.61359491426499	Subarray requested	NONE	NONE
[deg] Pointing Dec	-17.689375	-17.66473091192866	Alternating exposures requested	N	N
[deg] Pointing Roll	84.983119	85.13594666395642	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	336635384.184000	336634262.2039			
Observation start date	2008-09-01T05:48:39	2008-09-01T05:31:02			
[s] Observation end time (MET)	336641484.184000	336642367.90429			
Observation end date	2008-09-01T07:30:19	2008-09-01T07:46:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



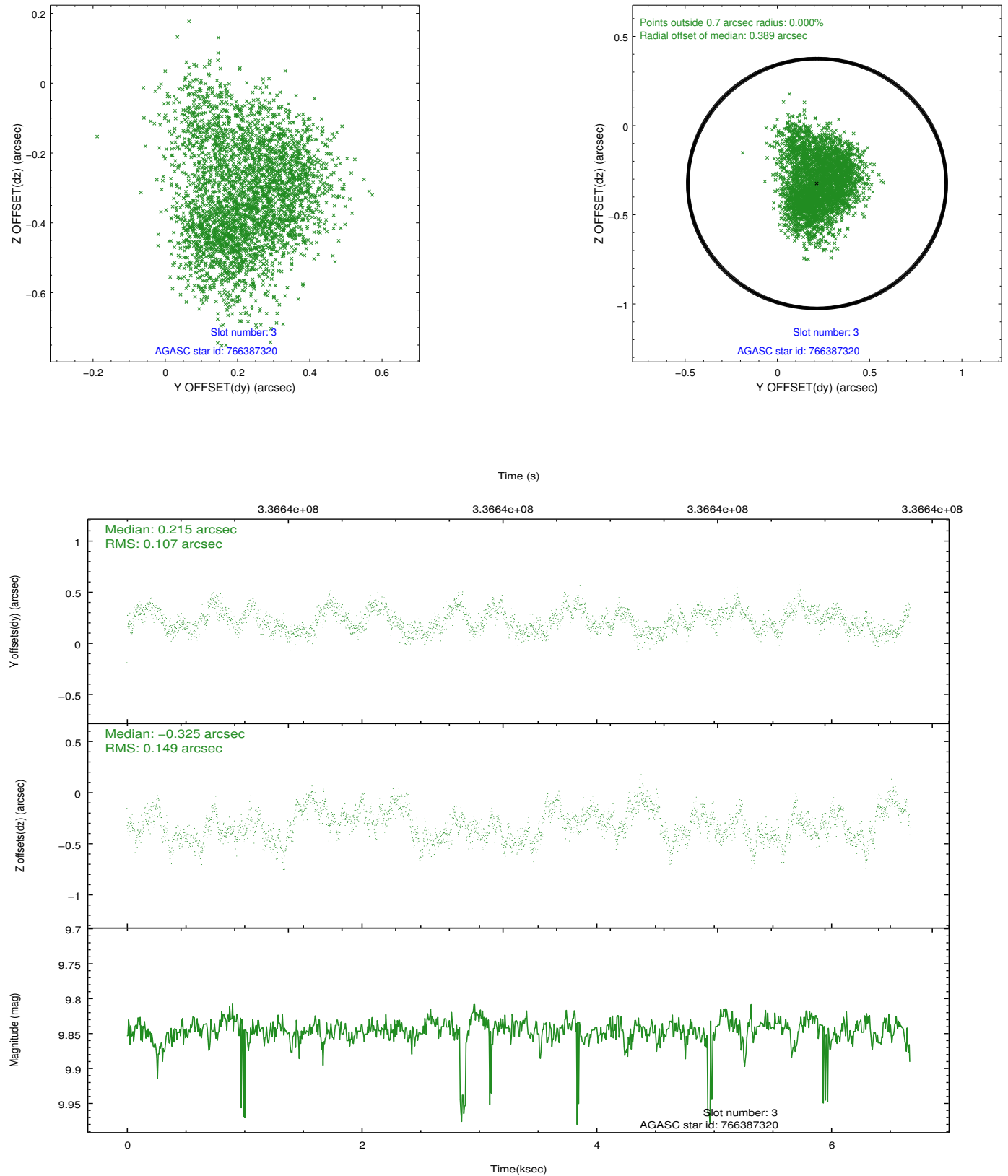


### Slot Statistics

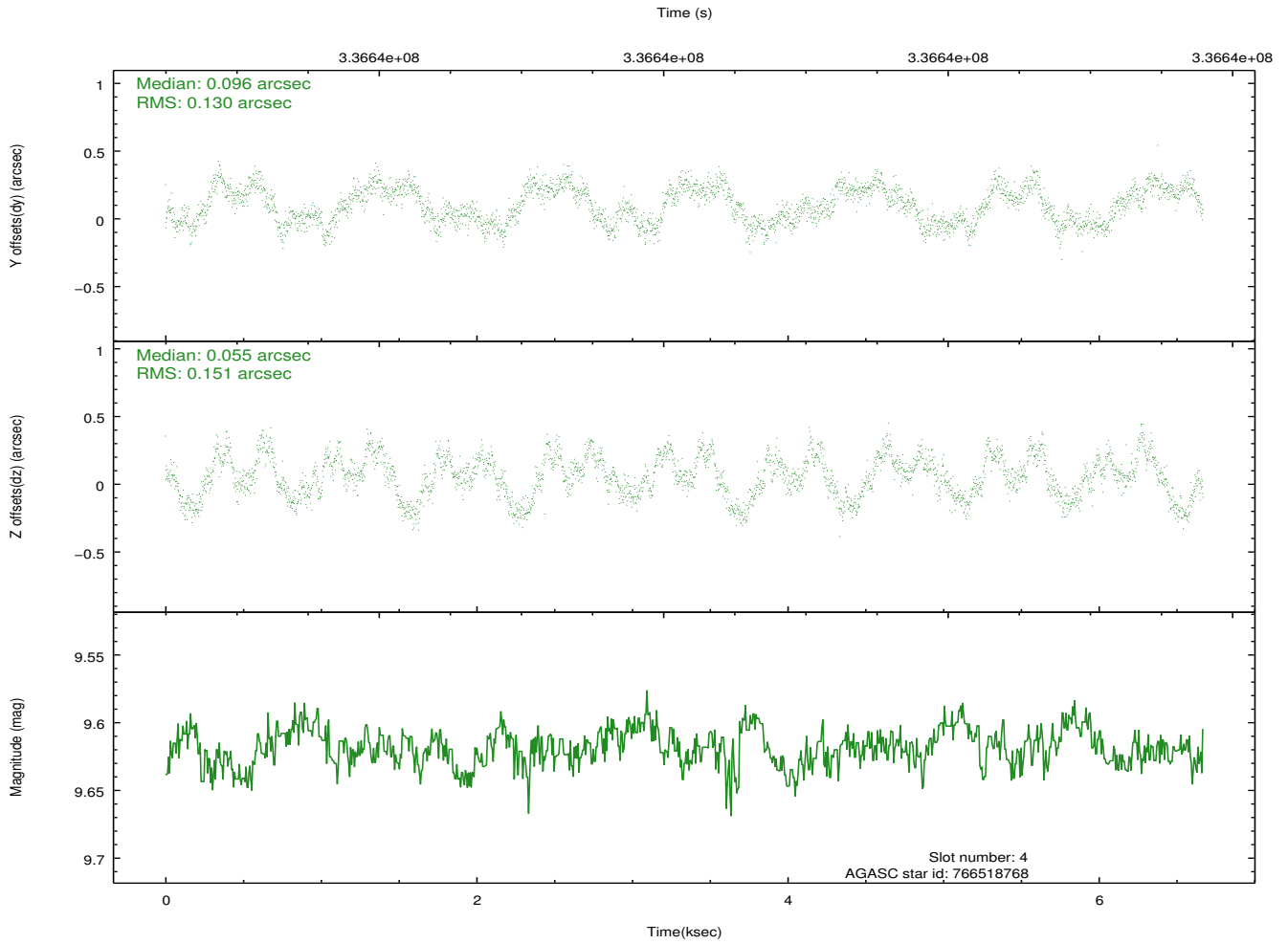
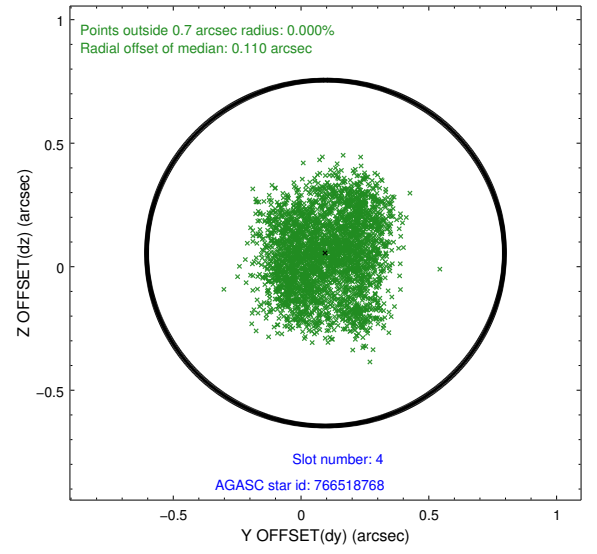
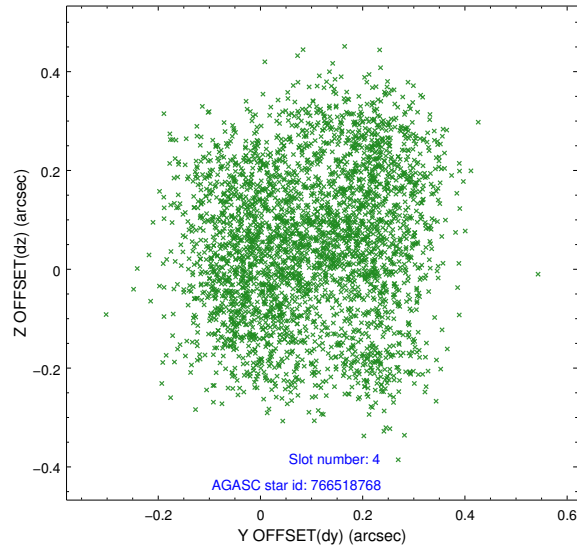
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	1627	-0.022	-0.046	0.006	0.011	0.000000	0.000000	-765.66	-1734.81
1	FID	ACIS-S-4	6.98	1627	0.145	0.023	0.006	0.010	0.000000	0.000000	2147.39	172.82
2	FID	ACIS-S-5	7.01	1627	-0.154	0.032	0.006	0.010	0.000000	0.000000	-1817.51	167.52
3	GUIDE	766387320	9.85	3245	0.215	-0.325	0.196	0.306	11.970659	-17.763265	-465.47	2214.69
4	GUIDE	766518768	9.62	3252	0.096	0.055	0.222	0.318	13.001775	-17.753503	-118.28	-1302.46
5	GUIDE	766518784	10.03	3248	-0.089	0.140	0.196	0.312	12.942224	-17.074228	2300.47	-889.80
6	GUIDE	766520264	7.93	3255	-0.112	0.235	0.086	0.134	13.282391	-17.651776	328.98	-2231.04
7	GUIDE	766521200	7.72	3254	-0.112	-0.115	0.087	0.131	12.183084	-17.547132	375.08	1558.50

## 2.4 Star Slots

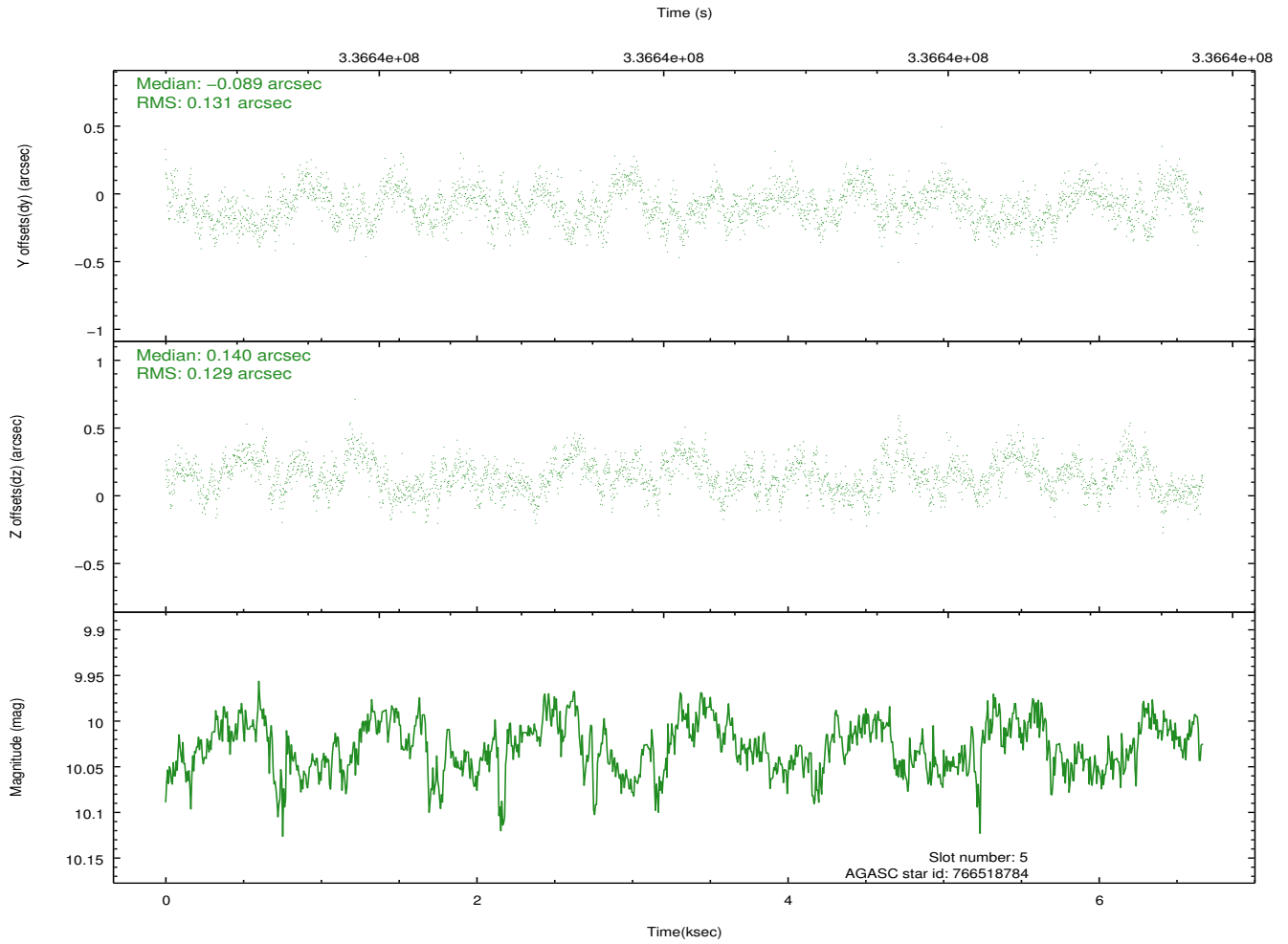
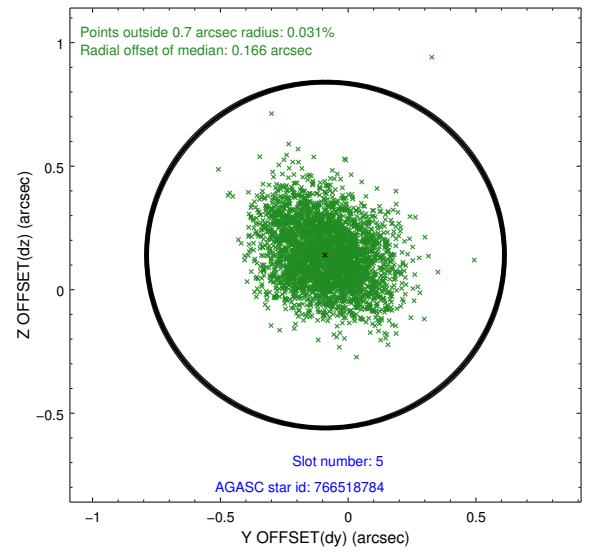
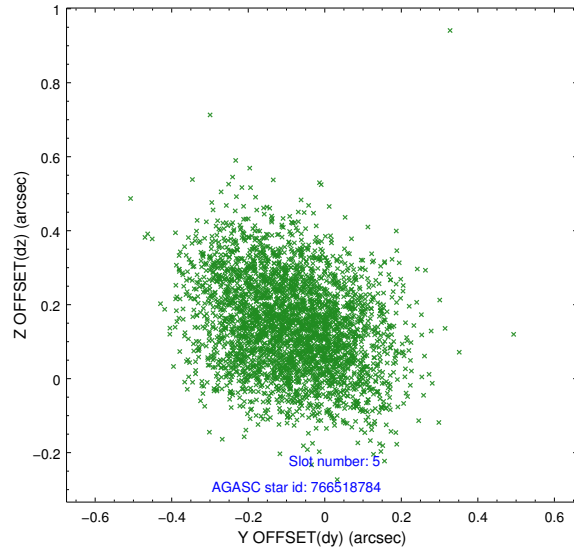
### 2.4.1 Slot 3



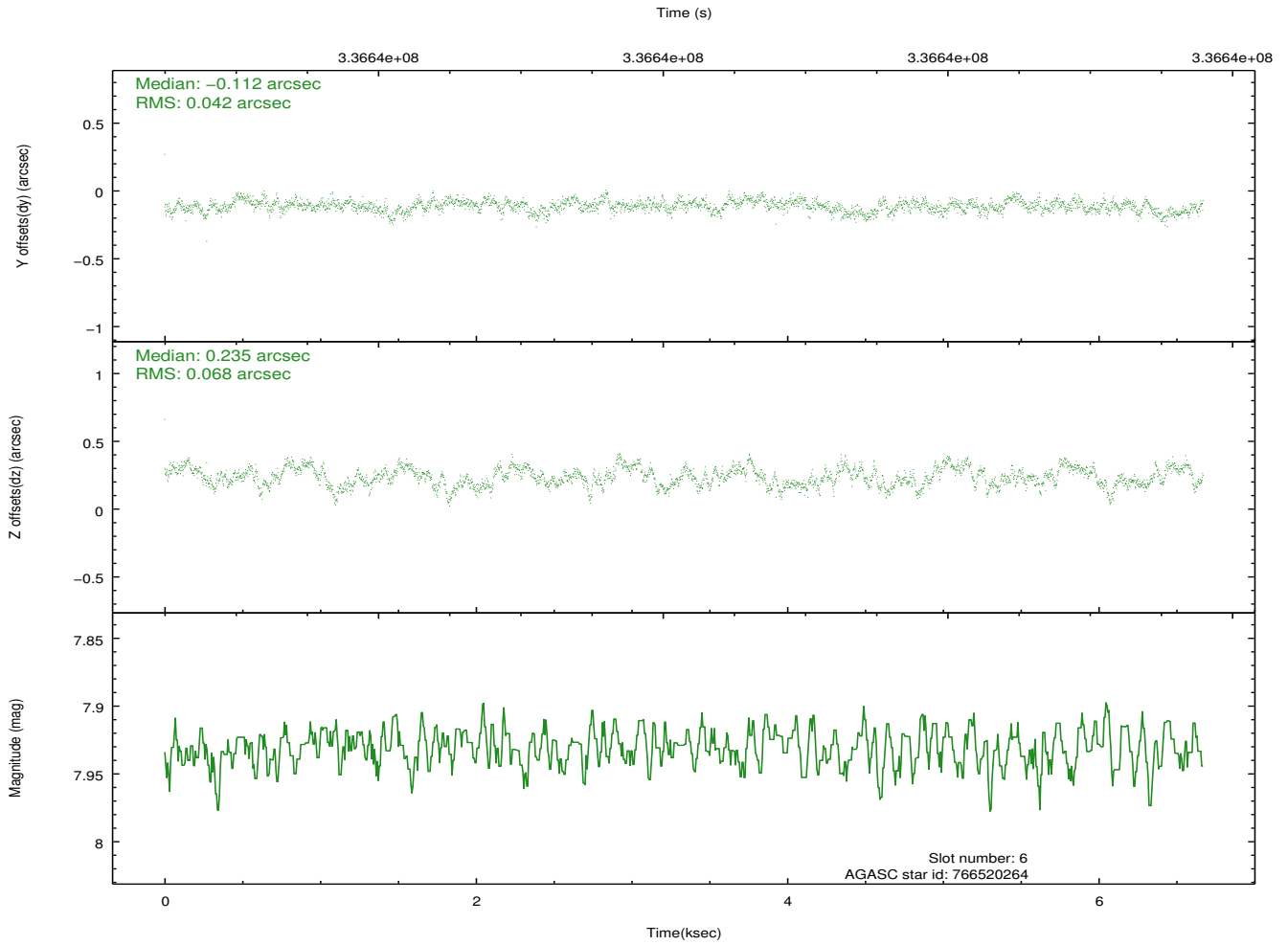
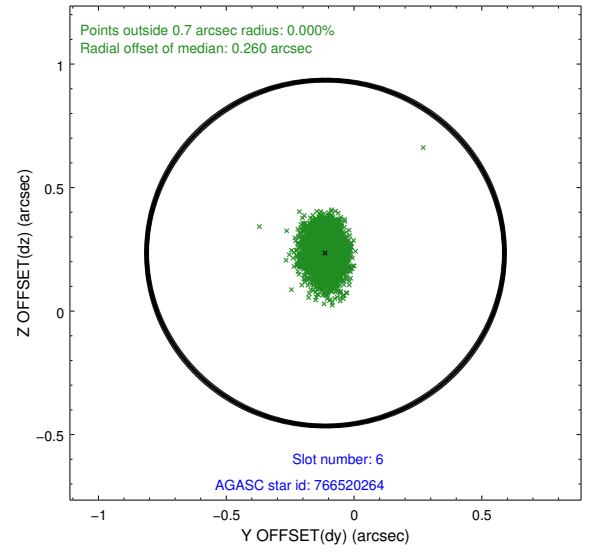
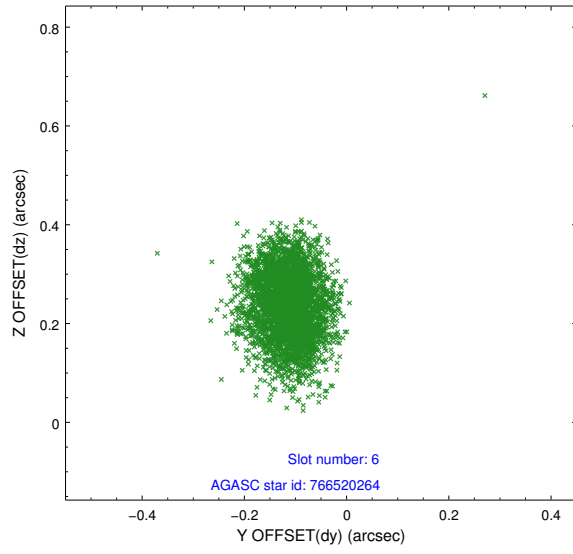
## 2.4.2 Slot 4



### 2.4.3 Slot 5

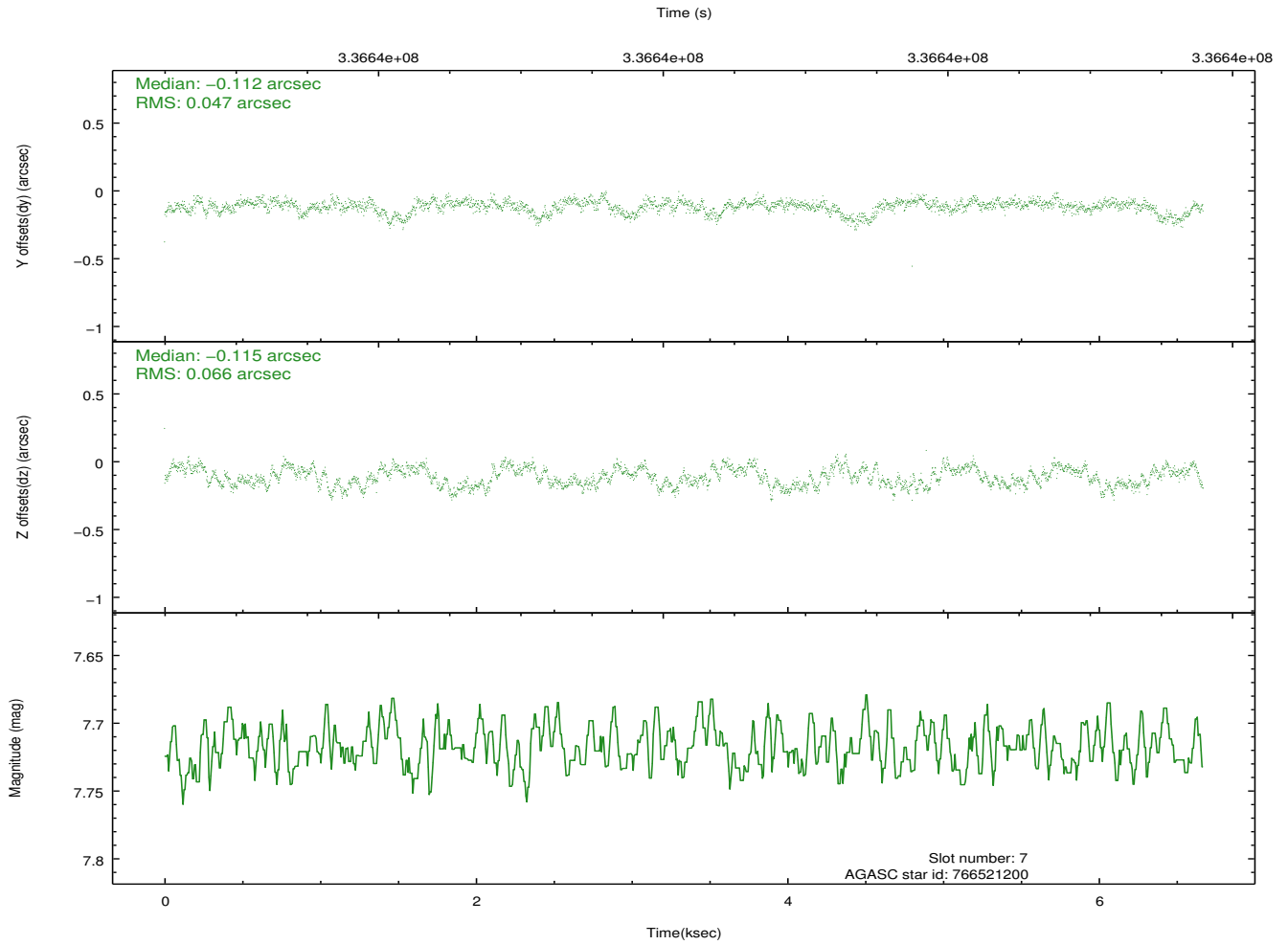
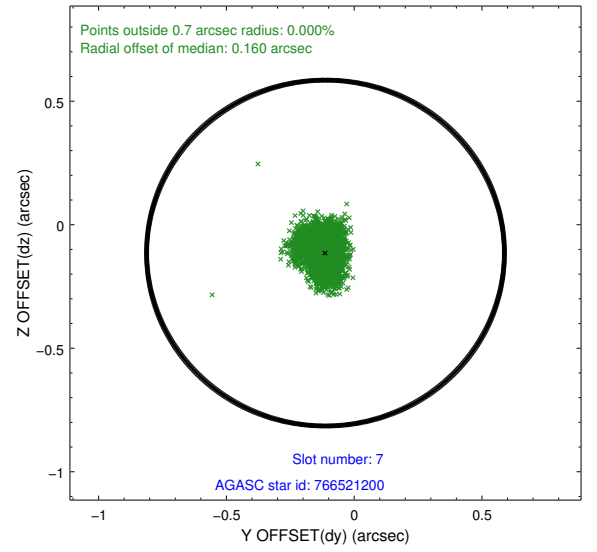
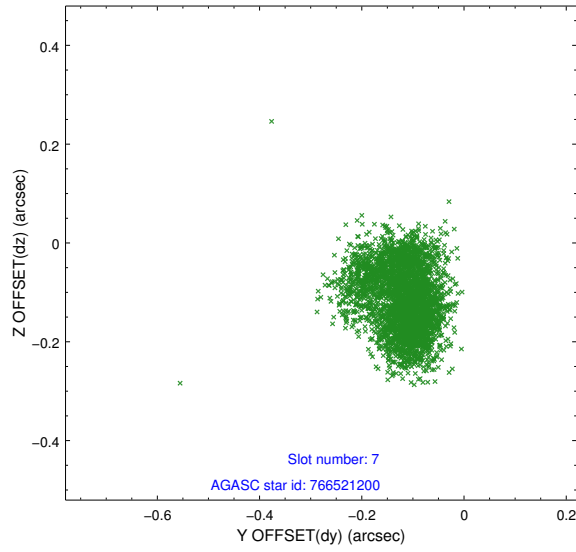


## 2.4.4 Slot 6



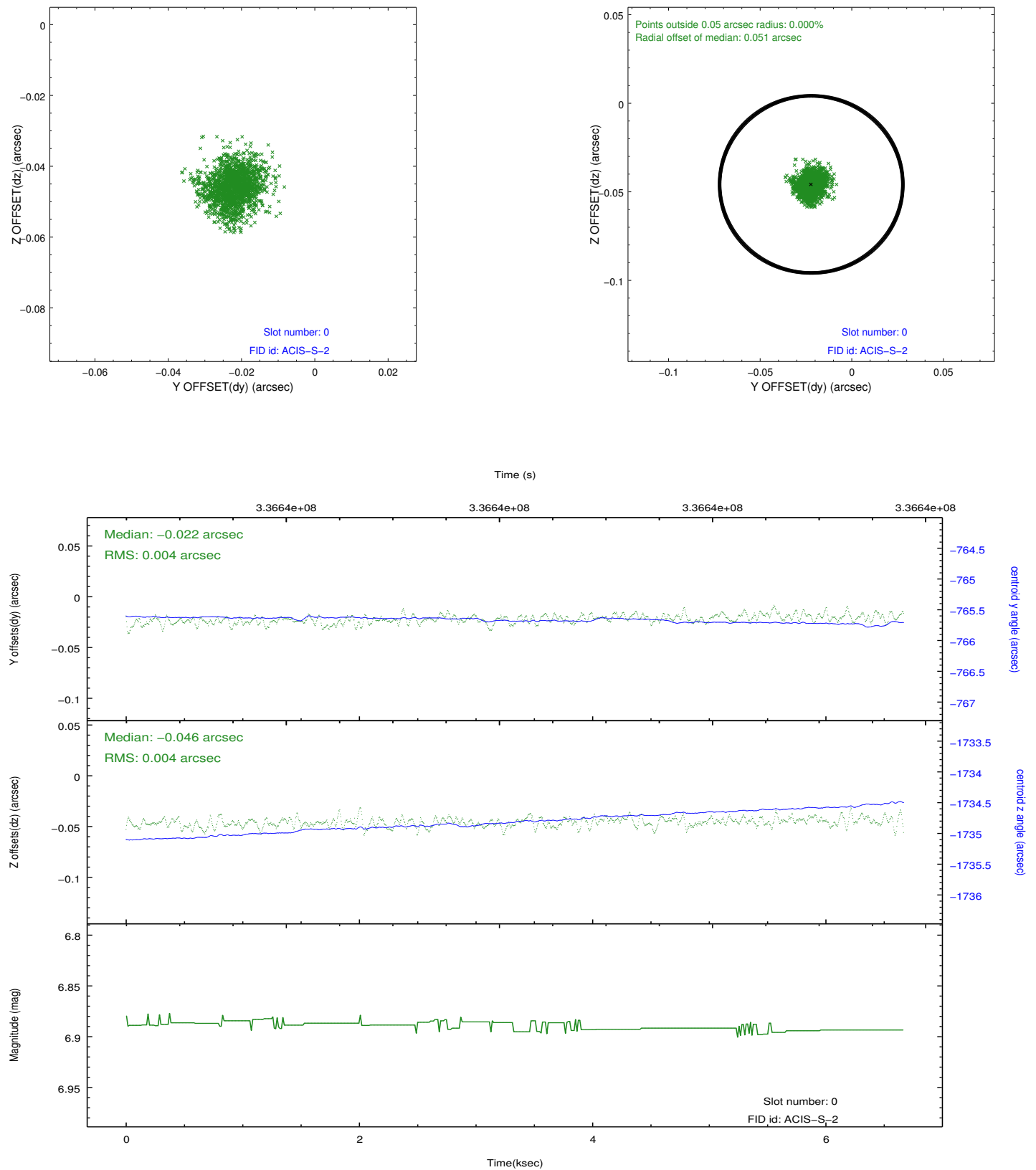


## 2.4.5 Slot 7

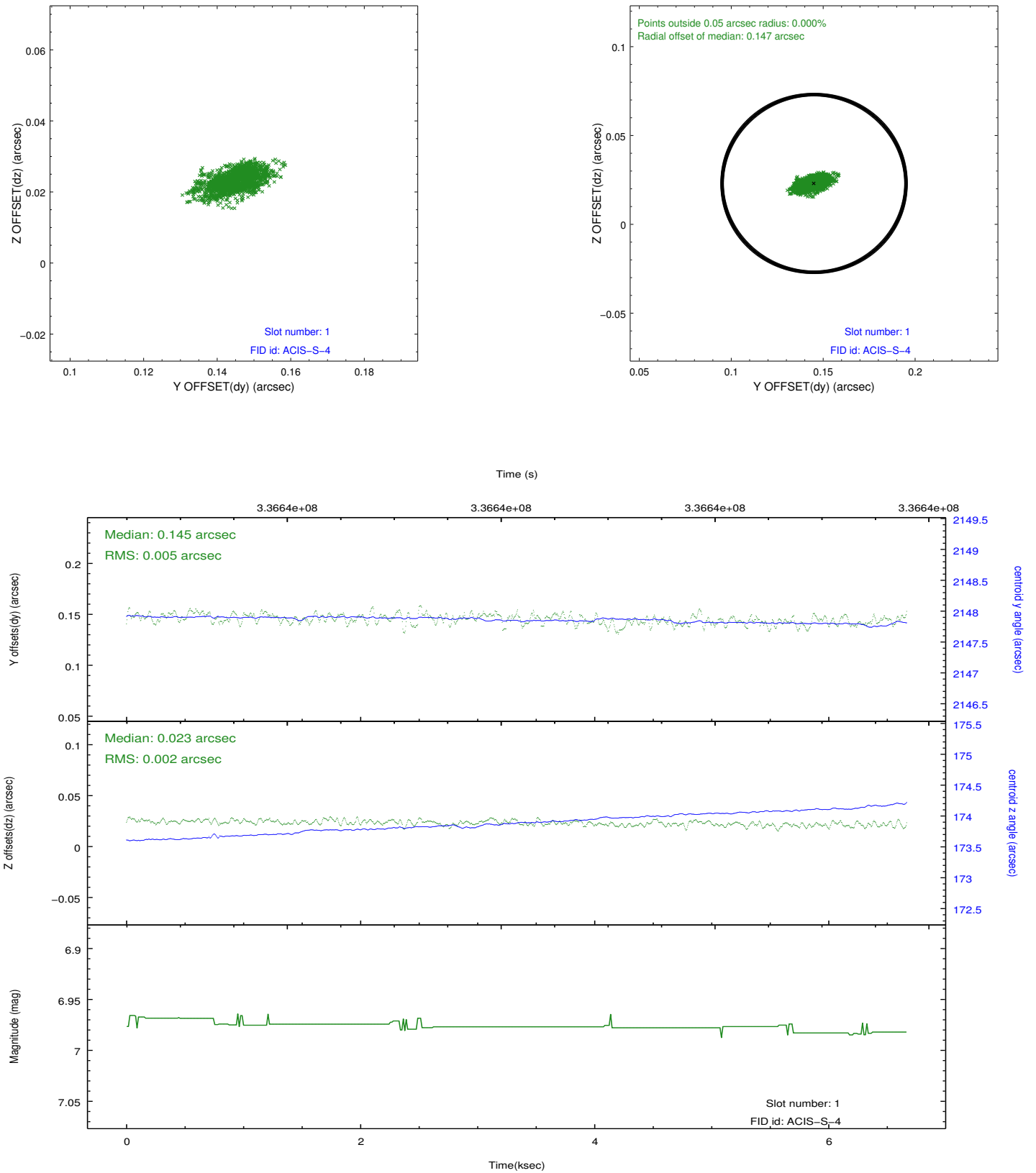


## 2.5 FID Slots

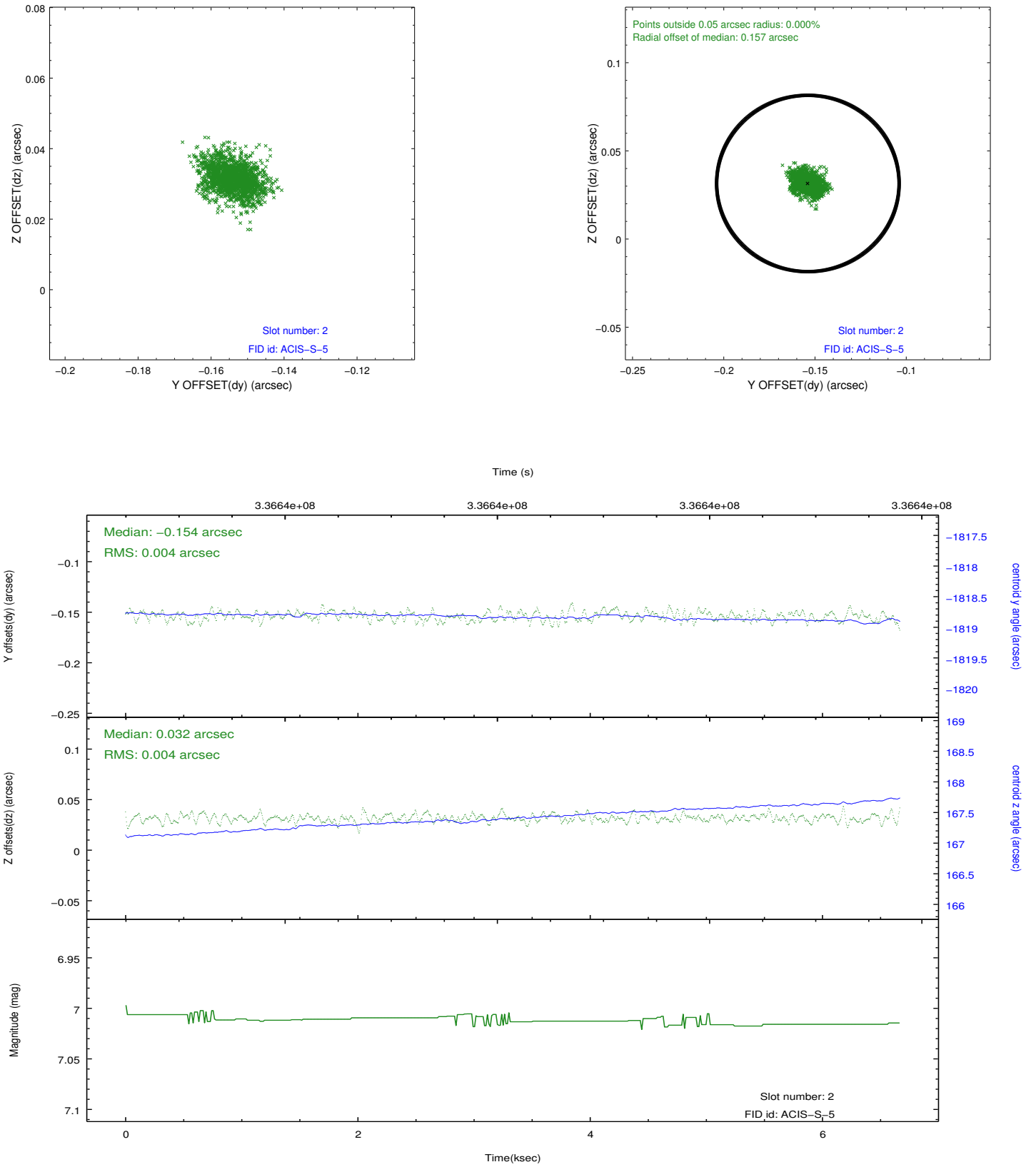
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.13180004

### A.2 Comments