

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12744 - L2 Version 2  
Chandra X-Ray Center

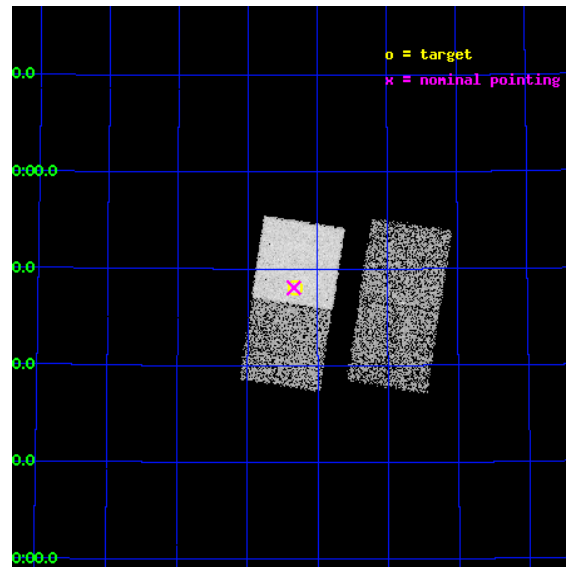
L2 Processing Date : Feb 26 2012

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# 1 Front

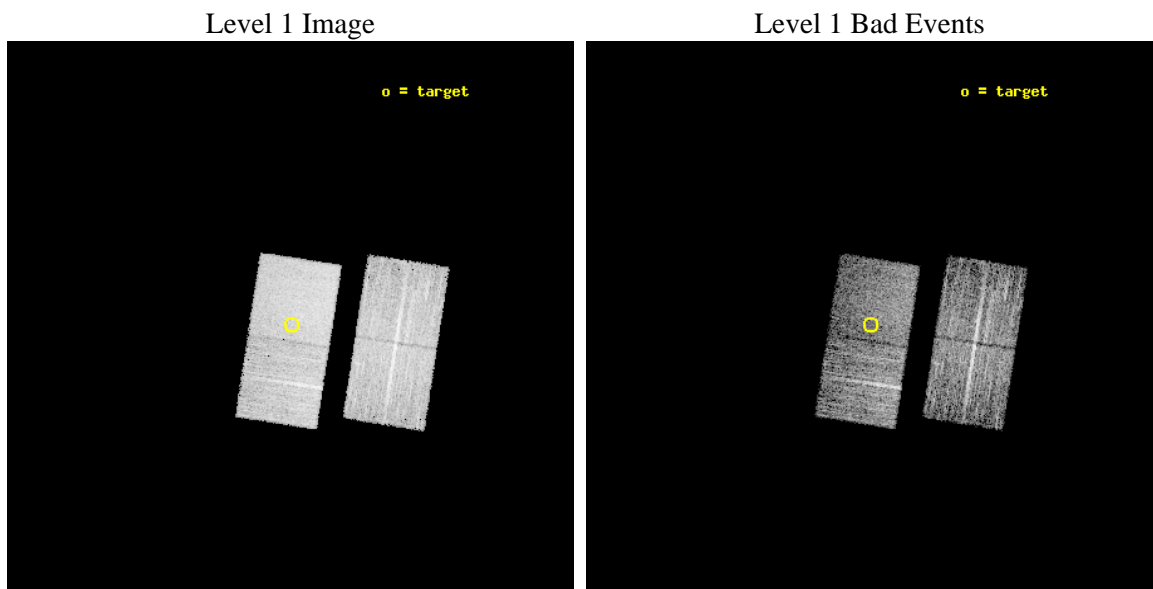
seq_num	702380	Sequence number
obs_id	12744	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 430	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	319.579167	Observer's specified target RA [deg]
dec_targ	60.802139	Observer's specified target Dec [deg]
ra_nom	319.58493435496	Nominal RA [deg]
dec_nom	60.800890430898	Nominal Dec [deg]
roll_nom	278.79261175606	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8053.662329495	Sum of GTIs [s]
livetime	7948.4353021401	Livetime [s]
ontime2	8053.5392094851	Sum of GTIs [s]
ontime3	8050.4392390847	Sum of GTIs [s]
ontime6	8053.6212894917	Sum of GTIs [s]
ontime7	8053.662329495	Sum of GTIs [s]
l2events	42833	Number of level 2 events



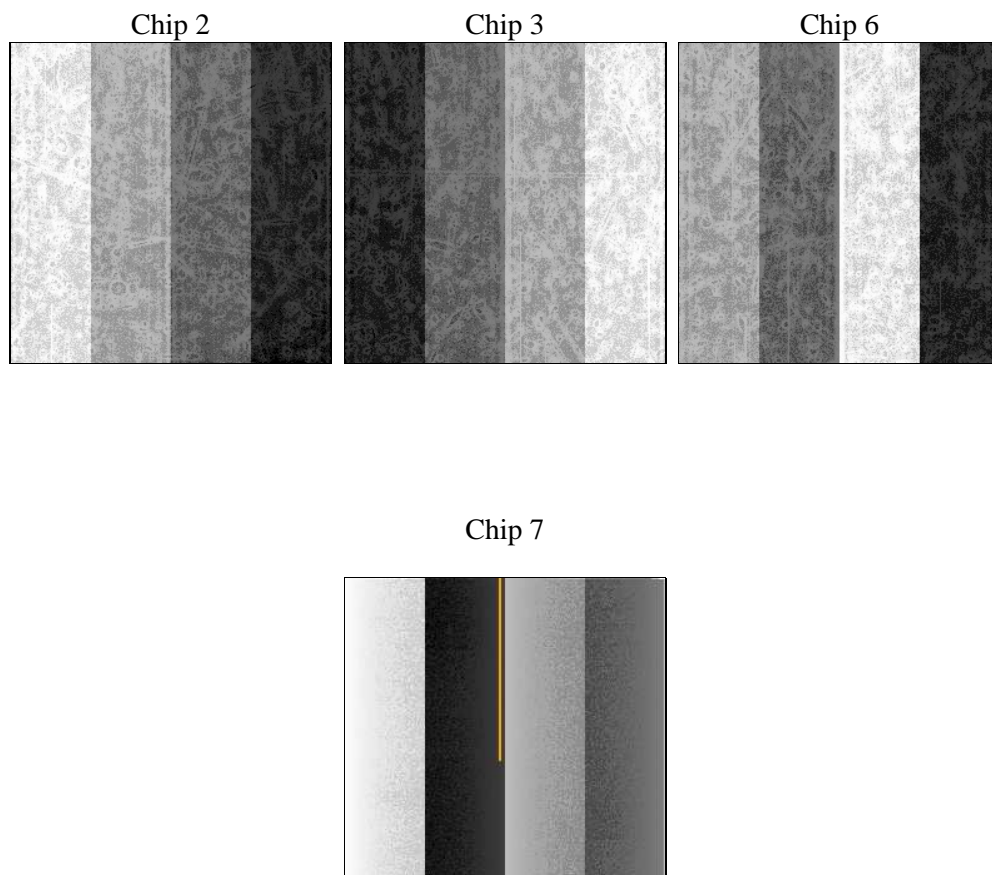
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	8053.662329495	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	8053.5392094851	Sum of GTIs [s]
date	2012-02-26T15:18:54	Date and time of file creation	ontime3	8050.4392390847	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8053.6212894917	Sum of GTIs [s]
			ontime7	8053.662329495	Sum of GTIs [s]
			l1events	212205	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	48806	47769	50302	65328
rejected events	43513	42560	44278	36178
rejected %	89%	89%	88%	55%

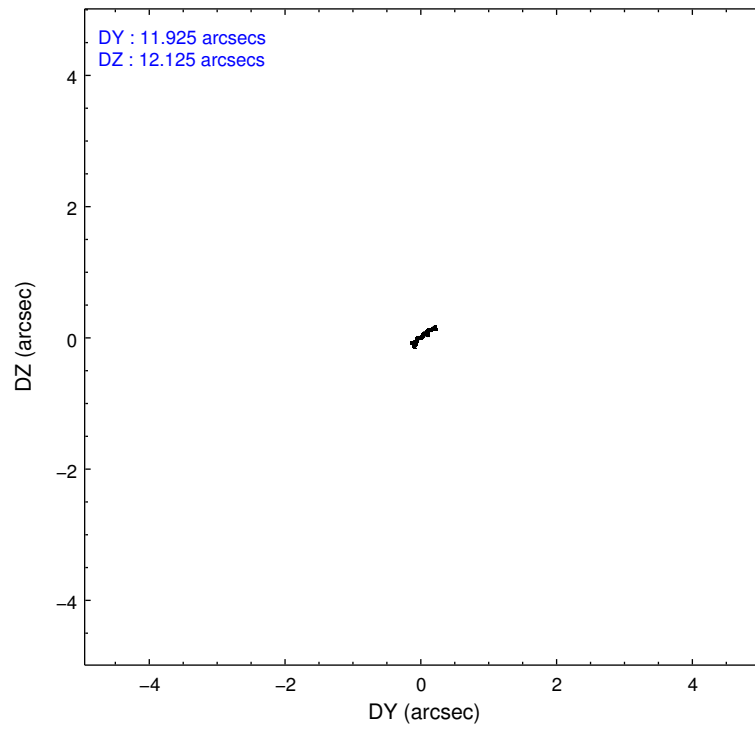
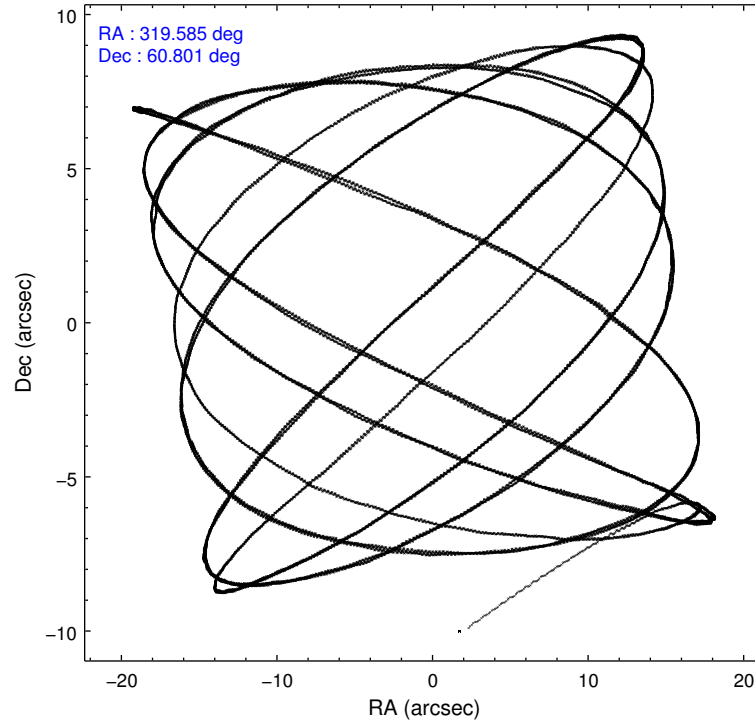
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1927	1848	2216	2719
	3%	3%	4%	4%
grade 1 events	24	28	31	73
	0%	0%	0%	0%
grade 2 events	1255	1071	1286	5822
	2%	2%	2%	8%
grade 3 events	547	593	598	2616
	1%	1%	1%	4%
grade 4 events	550	556	580	2549
	1%	1%	1%	3%
grade 5 events	1987	2407	2484	6636
	4%	5%	4%	10%
grade 6 events	1016	1143	1349	15469
	2%	2%	2%	23%
grade 7 events	41500	40123	41758	29444
	85%	83%	83%	45%

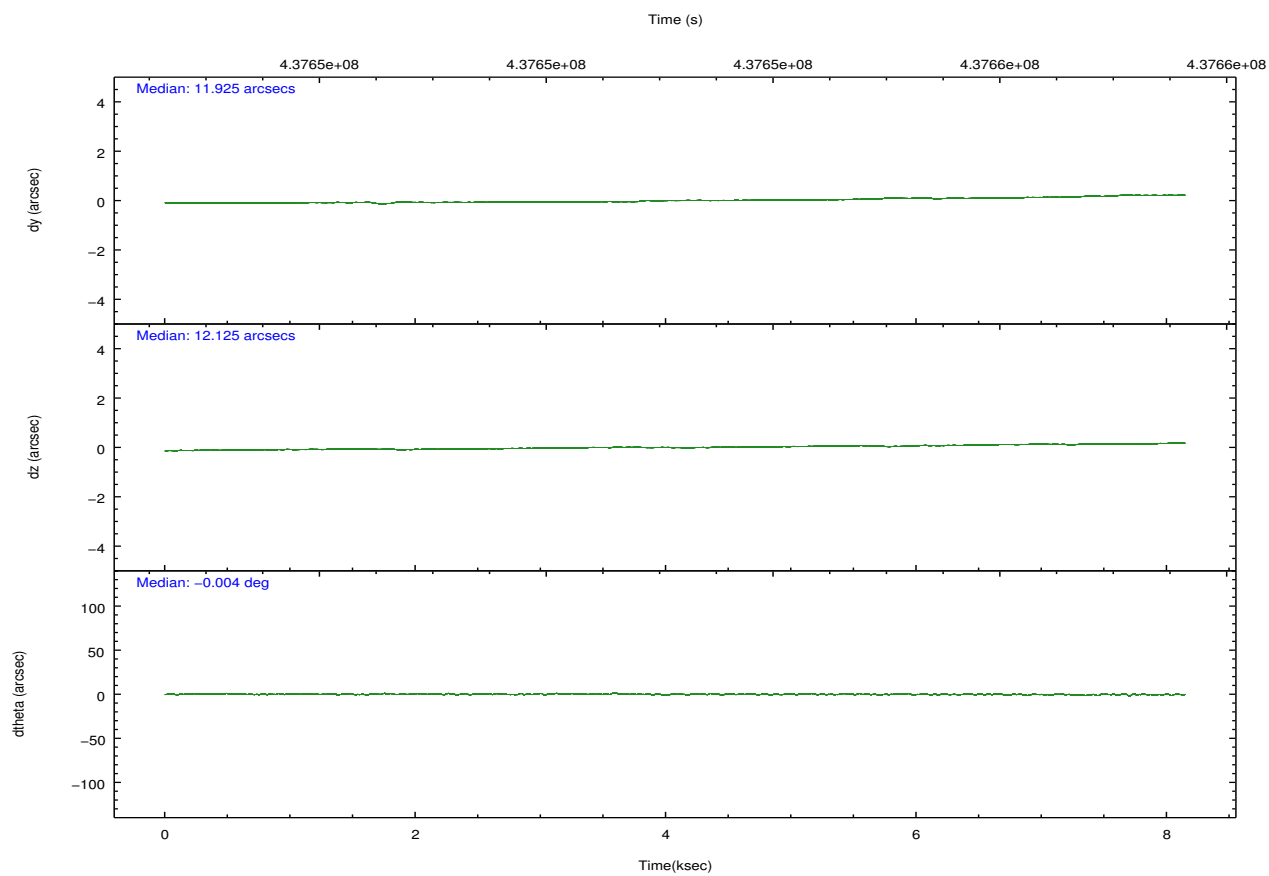
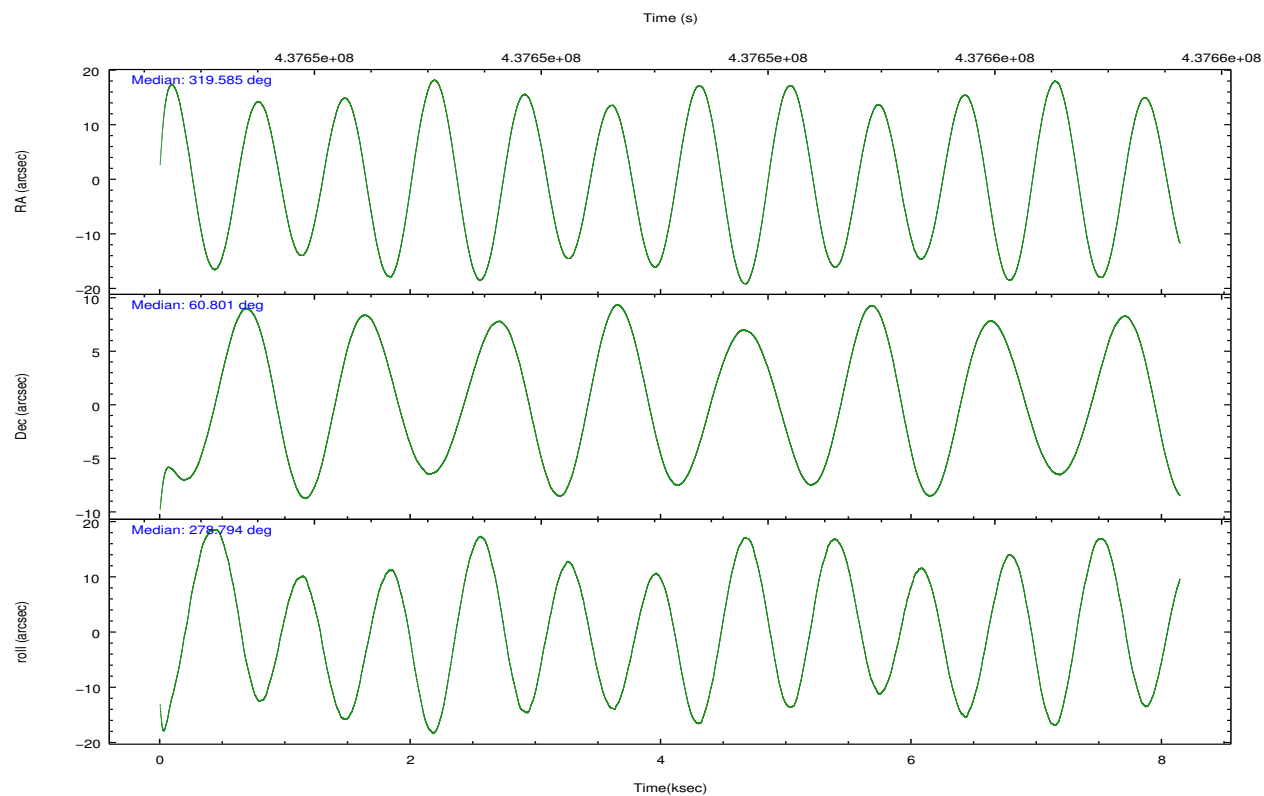


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	319.549113	319.5849343549554	CCD I2 on	O1	Y
[deg] Pointing Dec	60.821977	60.80089043089776	CCD I3 on	O2	Y
[deg] Pointing Roll	278.667277	278.7926117560642	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	437649203.184000	437648059.80376	CCD S5 on	N	N
Observation start date	2011-11-14T09:12:17	2011-11-14T08:54:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	437657203.184000	437657932.09178	On-chip summing requested	N	N
Observation end date	2011-11-14T11:25:37	2011-11-14T11:38:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



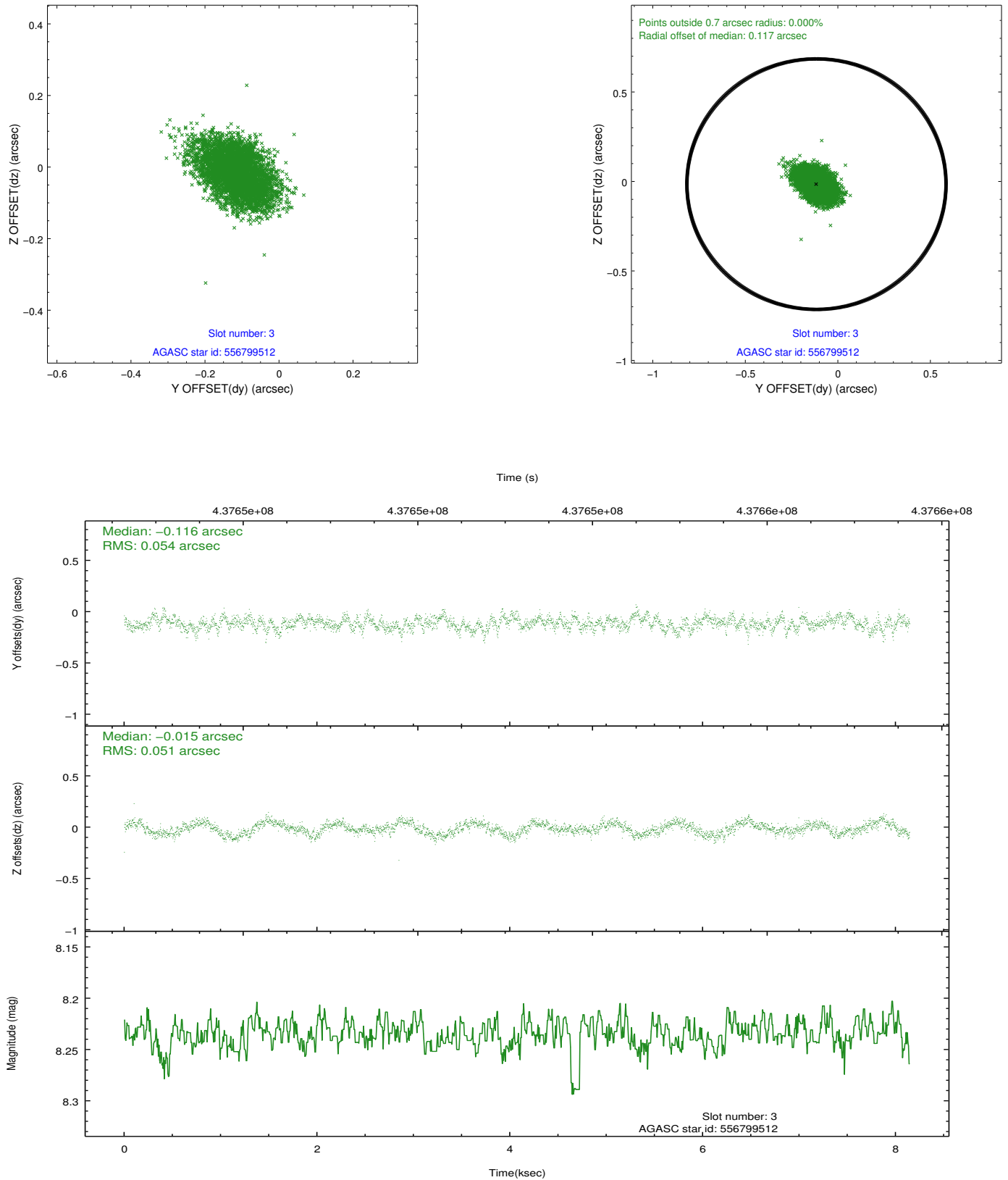


### Slot Statistics

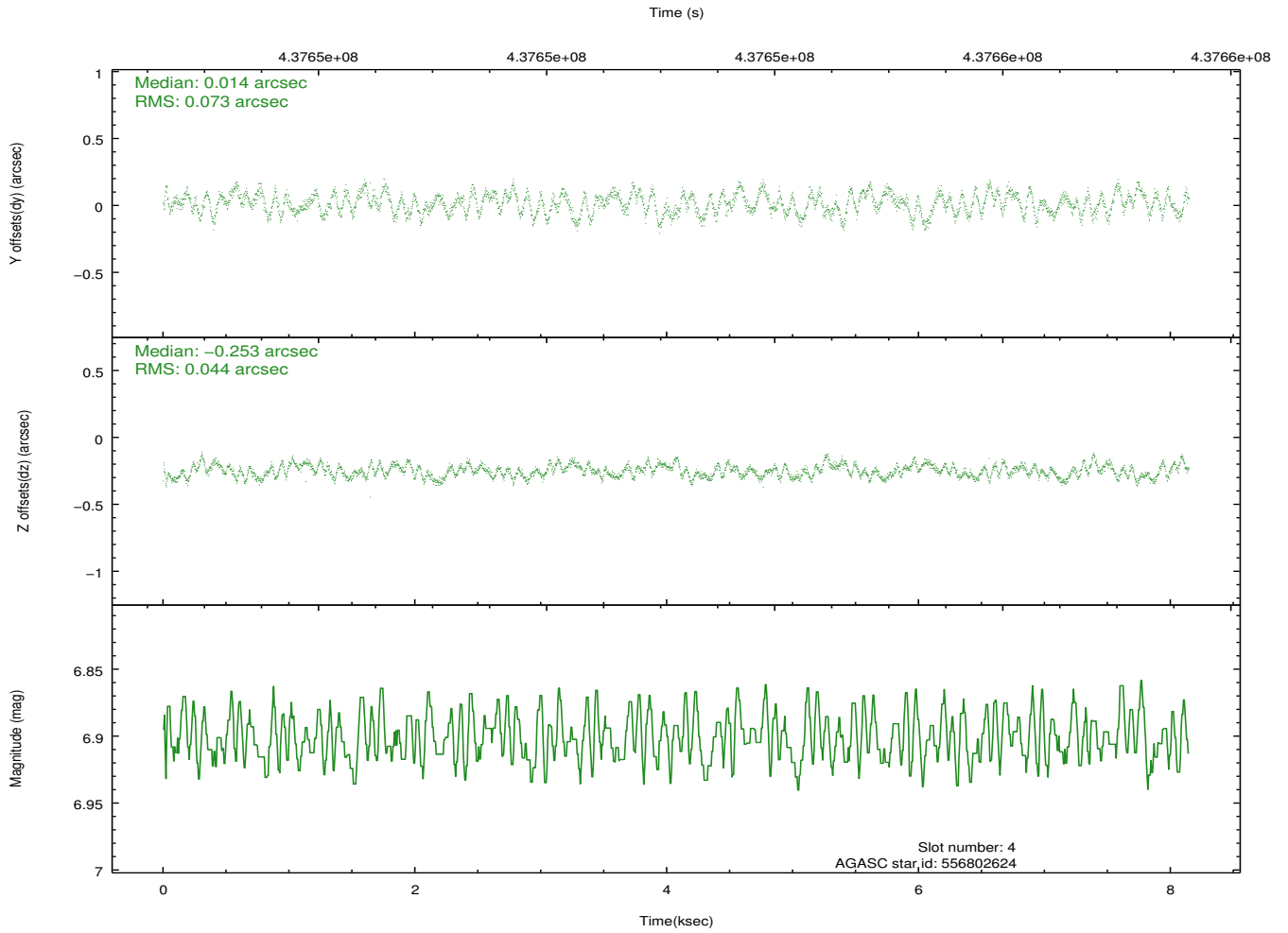
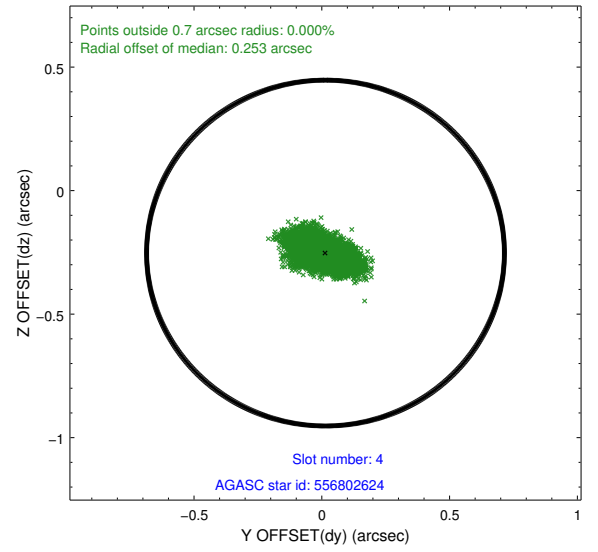
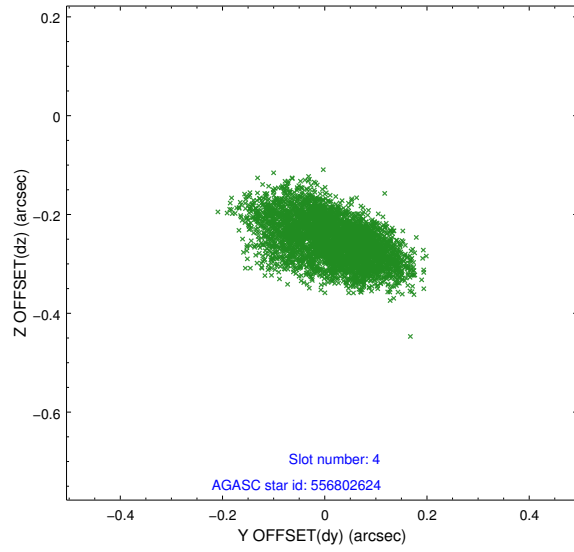
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.11	1987	0.169	-0.099	0.006	0.011	0.000000	0.000000	931.35	-1729.13
1	FID	ACIS-S-2	7.02	1987	-0.042	0.009	0.008	0.013	0.000000	0.000000	-764.38	-1734.25
2	FID	ACIS-S-5	7.15	1987	-0.151	0.096	0.007	0.013	0.000000	0.000000	-1818.40	167.96
3	GUIDE	556799512	8.23	3974	-0.116	-0.015	0.079	0.130	320.248581	61.461310	-2100.58	1537.37
4	GUIDE	556802624	6.90	3974	0.014	-0.253	0.091	0.149	320.105968	60.687232	623.00	897.87
5	GUIDE	556803712	8.65	3973	0.094	0.371	0.077	0.129	319.366328	60.874329	-234.78	-287.63
6	GUIDE	556804704	7.83	3971	-0.023	-0.065	0.073	0.117	320.390335	60.581814	1069.64	1341.75
7	GUIDE	556800616	9.14	3972	0.037	-0.032	0.097	0.161	319.783617	61.503249	-2364.50	768.90

## 2.4 Star Slots

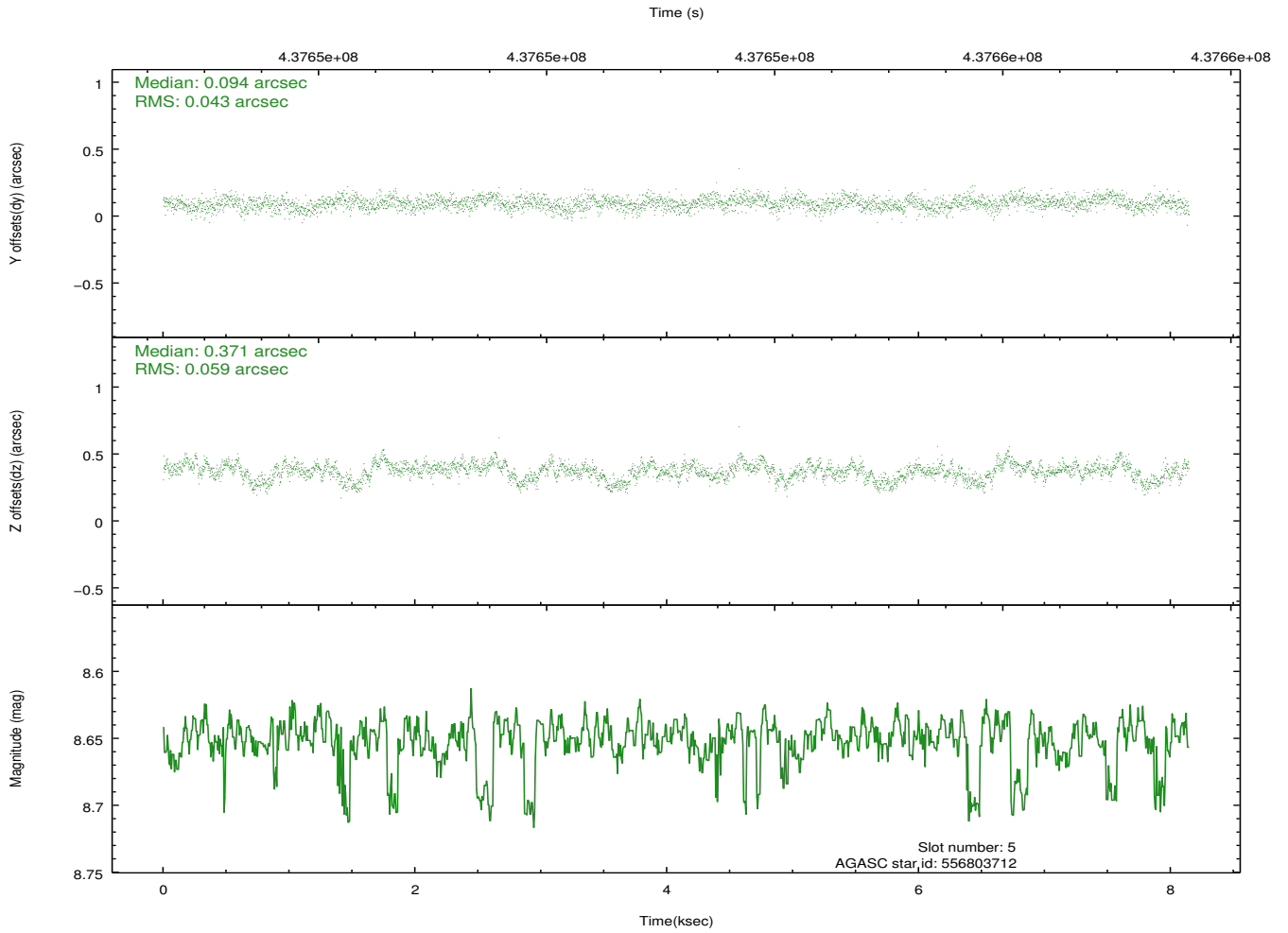
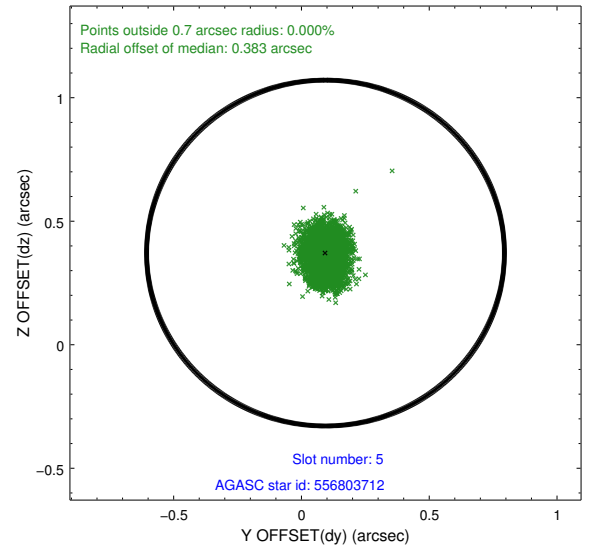
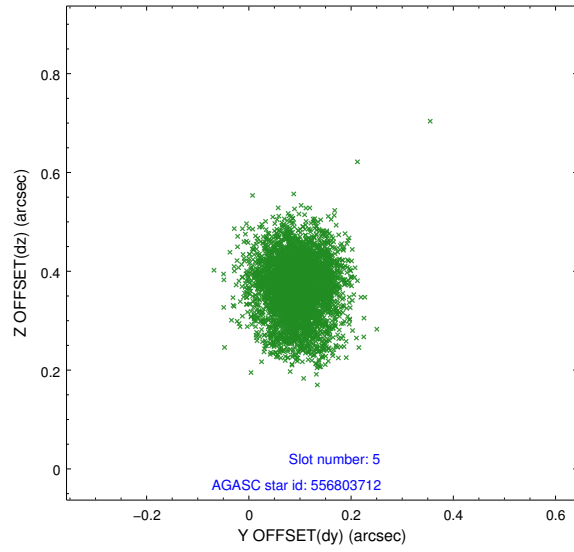
### 2.4.1 Slot 3



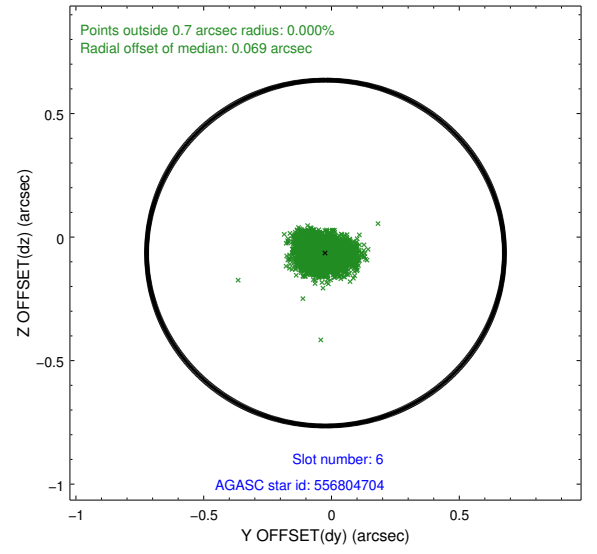
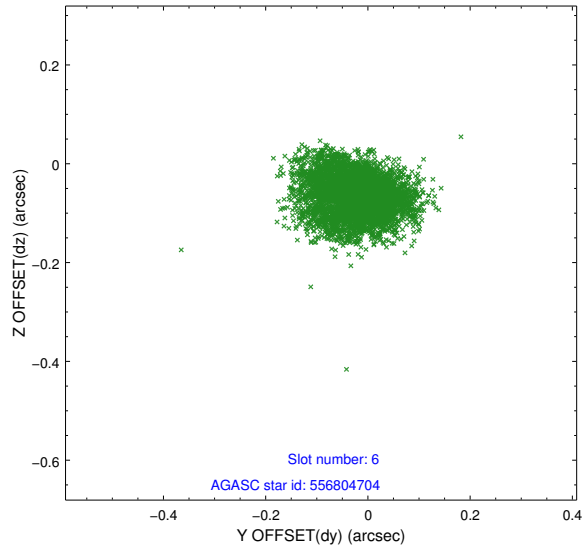
## 2.4.2 Slot 4



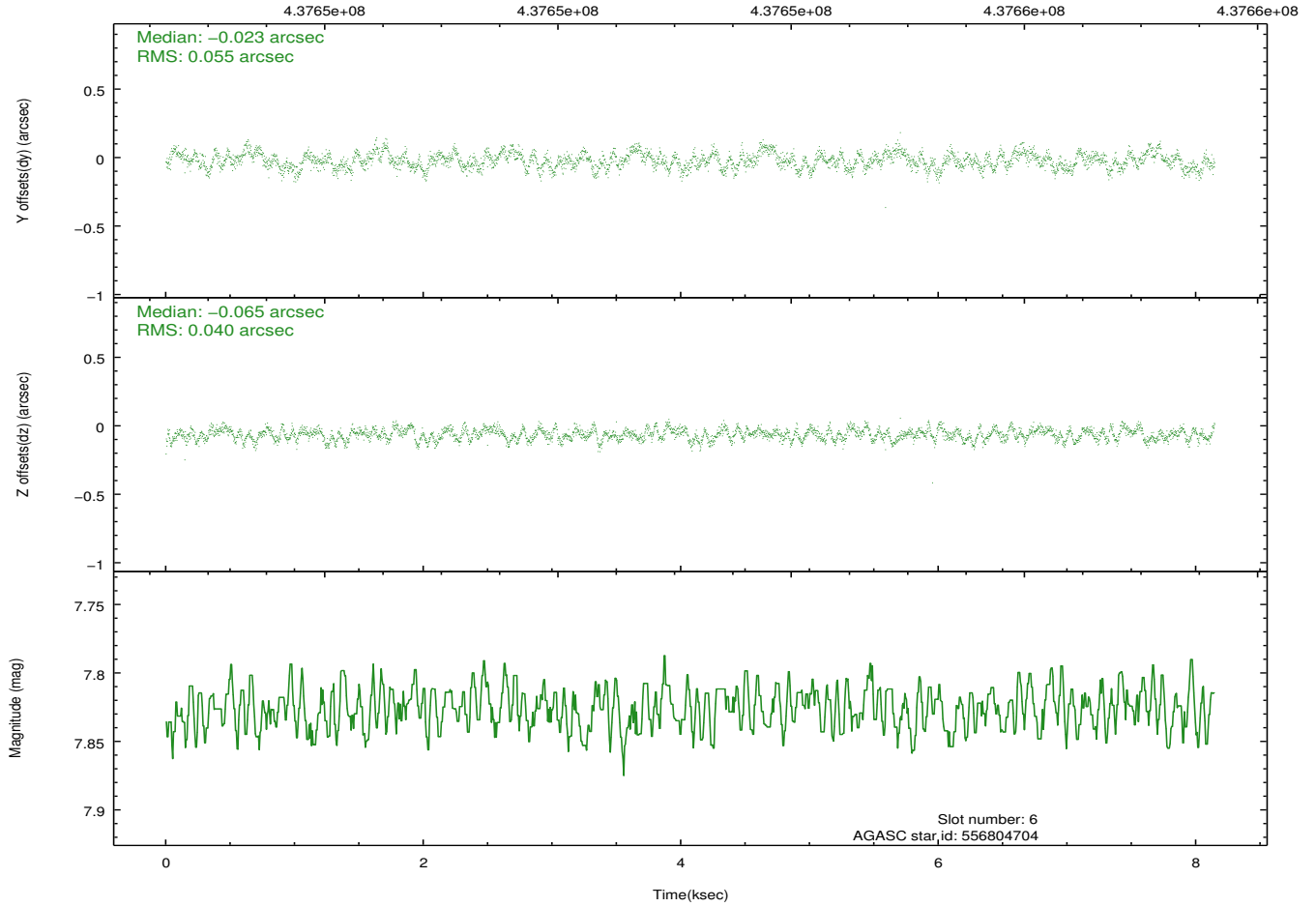
### 2.4.3 Slot 5



## 2.4.4 Slot 6

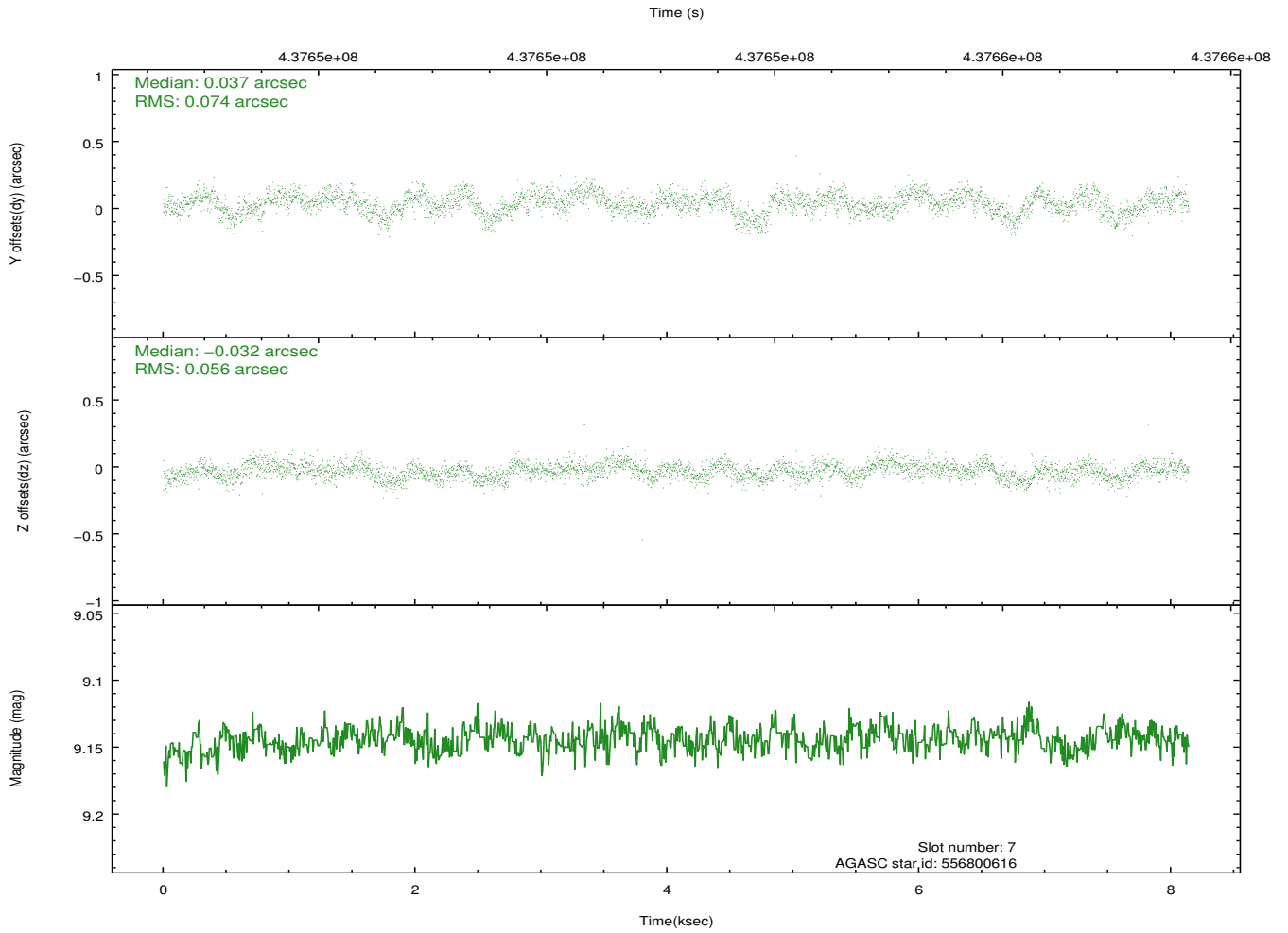
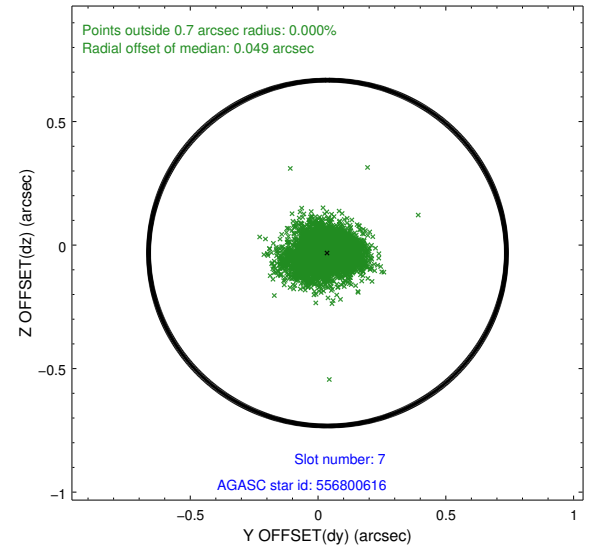
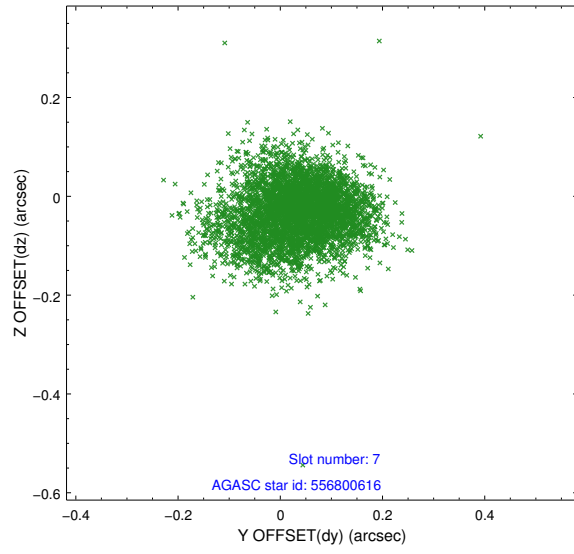


Time (s)



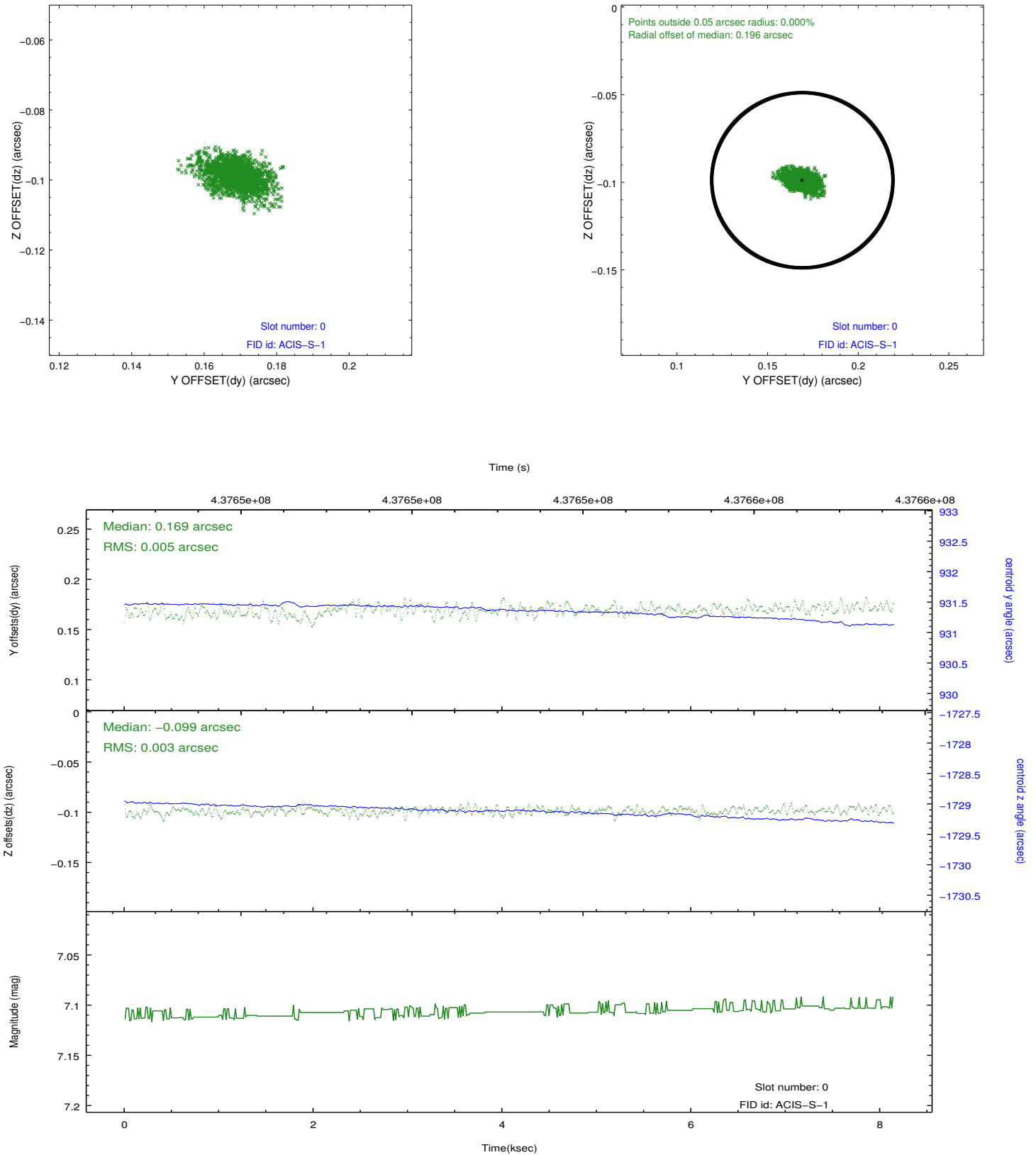


## 2.4.5 Slot 7

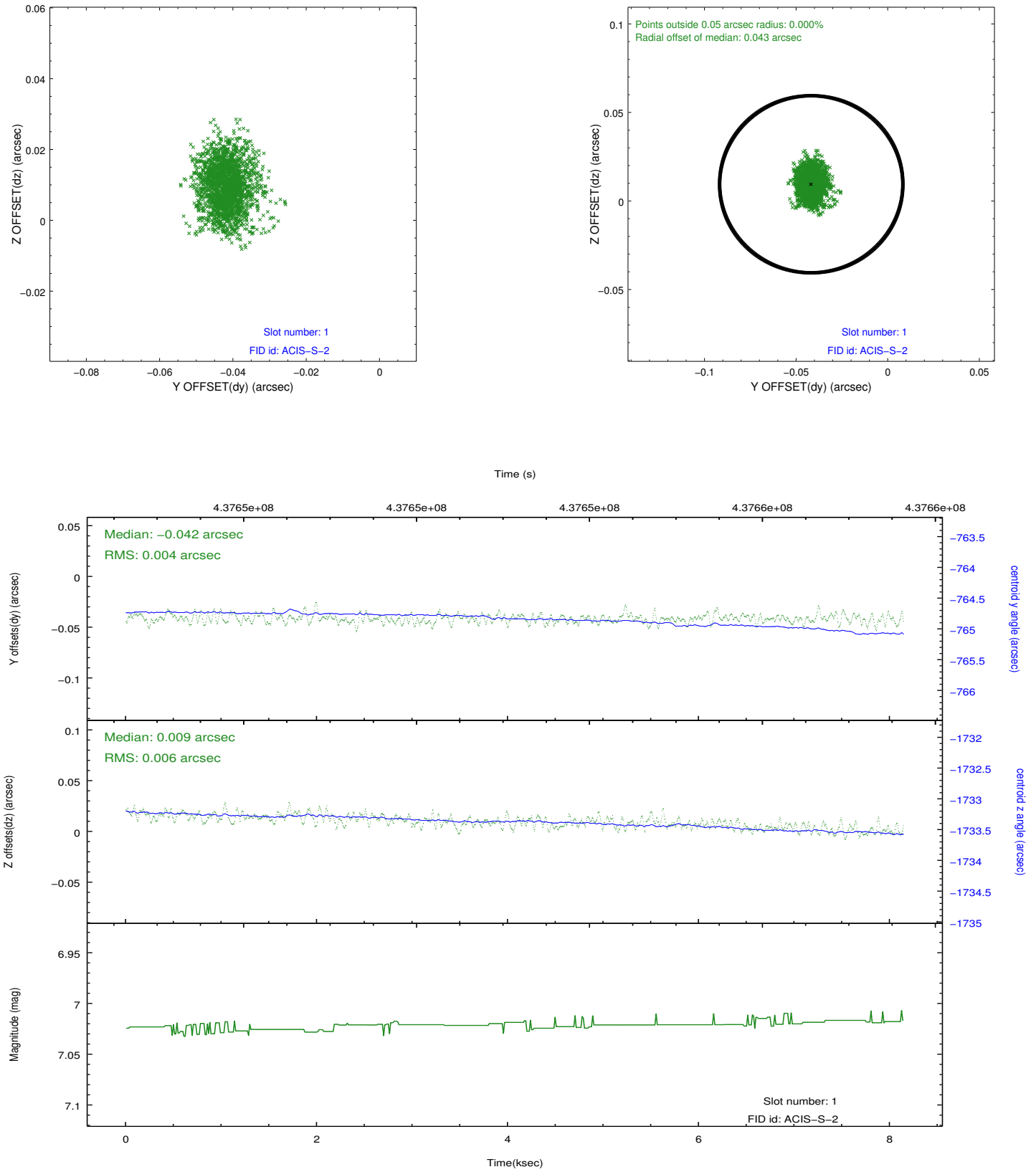


## 2.5 FID Slots

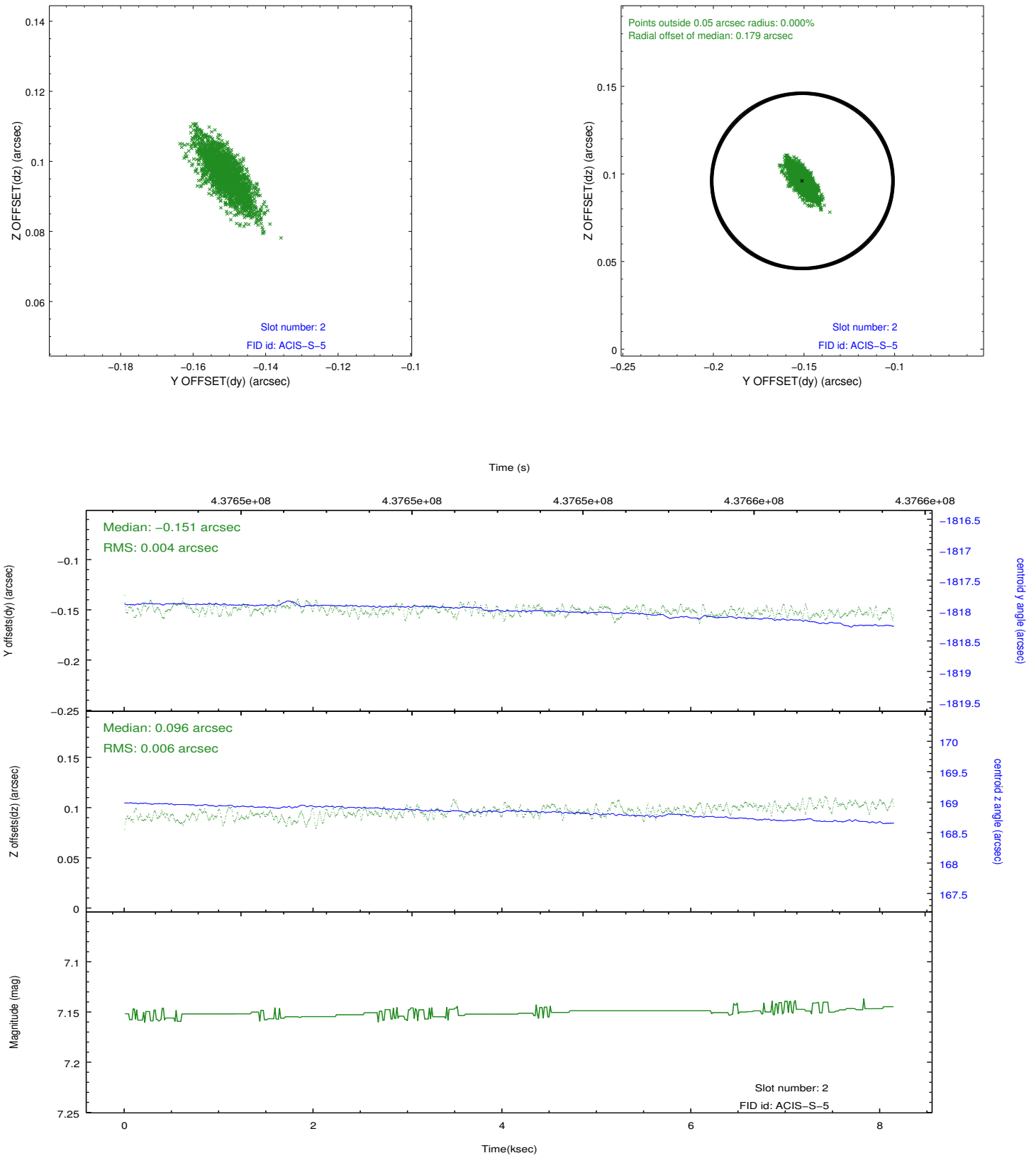
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0536623313427

### **A.2 Comments**