

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11662 - L2 Version 2  
Chandra X-Ray Center

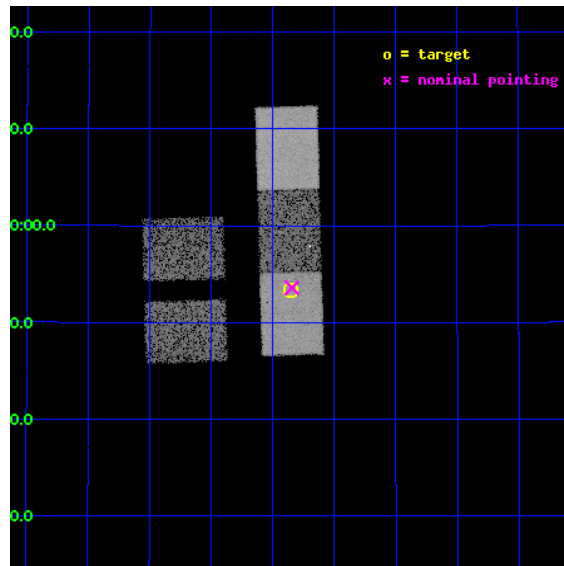
L2 Processing Date : Jun 18 2012

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# 1 Front

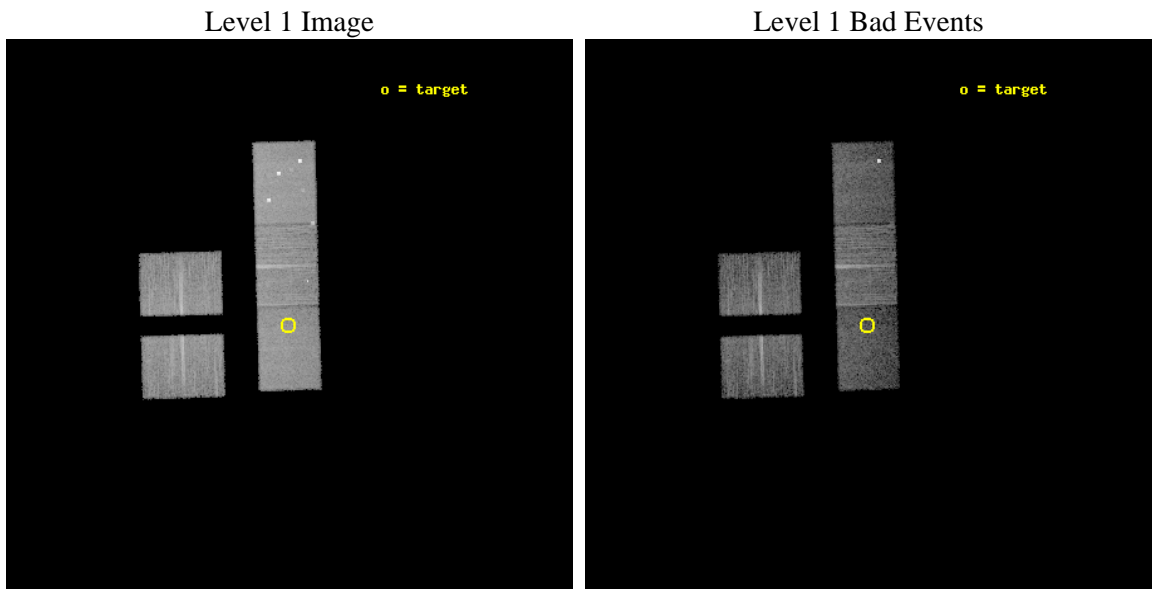
seq_num	702248	Sequence number
obs_id	11662	Observation id
title	Chandra deciphers the Optically 'Dull' X-ray Bright Galaxies at z~0.	Proposal title
observer	Dr. Anca Constantin	Principal investigator
object	SDSS J085451.27+305320.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.71375	Observer's specified target RA [deg]
dec_targ	30.889056	Observer's specified target Dec [deg]
ra_nom	133.71093719484	Nominal RA [deg]
dec_nom	30.893255985146	Nominal Dec [deg]
roll_nom	88.410586865135	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10530.460738659	Sum of GTIs [s]
livetime	10353.417302781	Livetime [s]
ontime2	10530.296578646	Sum of GTIs [s]
ontime3	10530.337618649	Sum of GTIs [s]
ontime5	10530.419698656	Sum of GTIs [s]
ontime6	10527.937658489	Sum of GTIs [s]
ontime7	10530.460738659	Sum of GTIs [s]
l2events	89907	Number of level 2 events



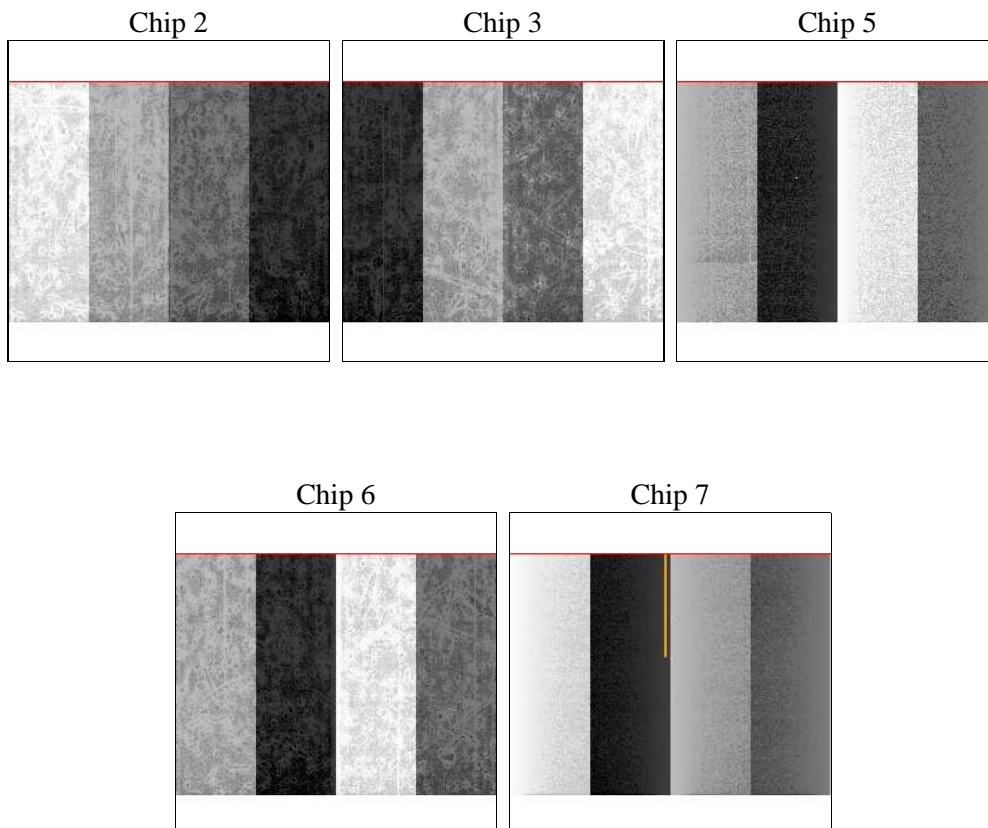
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10530.460738659	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	10530.296578646	Sum of GTIs [s]
date	2012-06-18T07:28:17	Date and time of file creation	ontime3	10530.337618649	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	10530.419698656	Sum of GTIs [s]
			ontime6	10527.937658489	Sum of GTIs [s]
			ontime7	10530.460738659	Sum of GTIs [s]
			l1events	353298	Number of level 1 events

### 2.1.4 Events

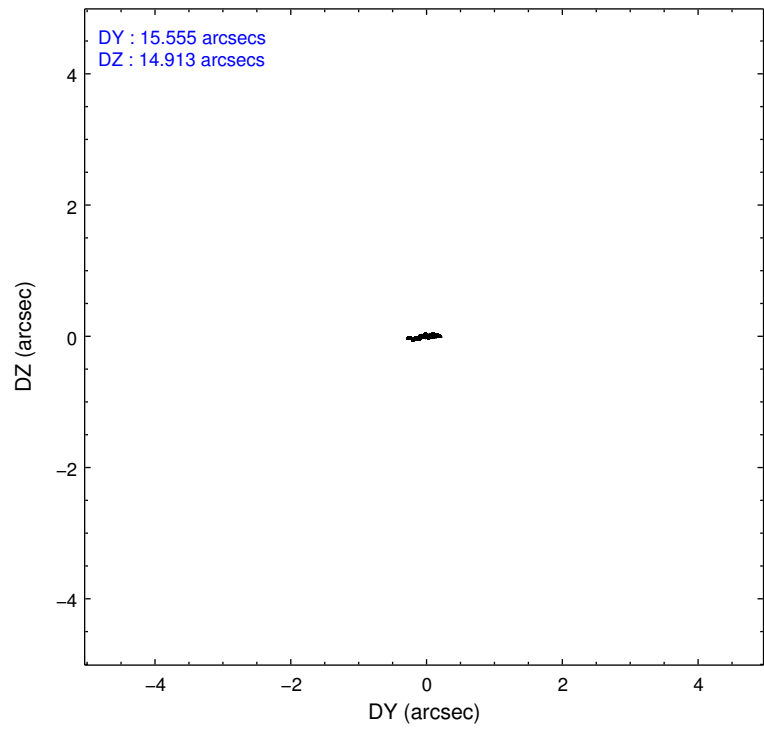
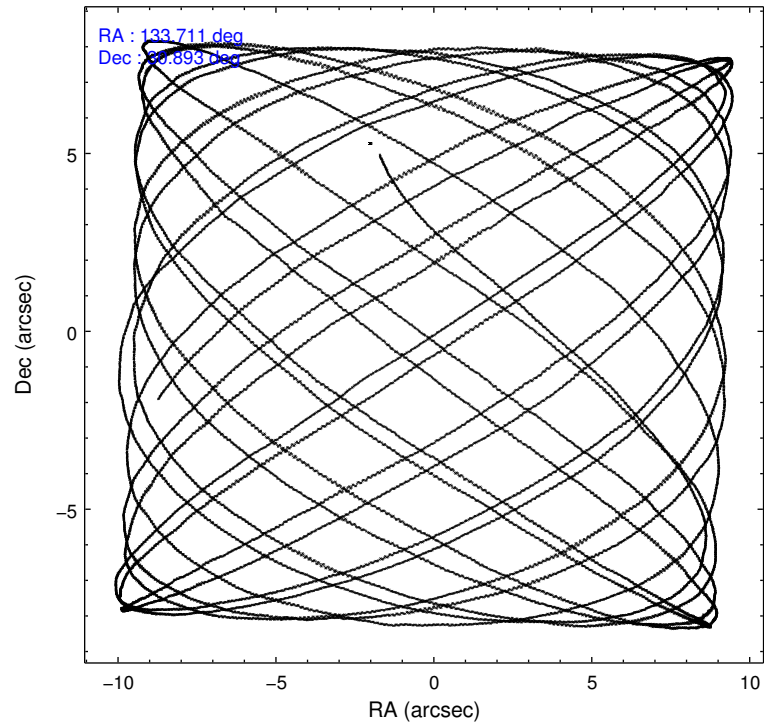
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	64422	61835	96014	67085	63942
rejected events	57789	55541	43508	59552	32029
rejected %	89%	89%	45%	88%	50%

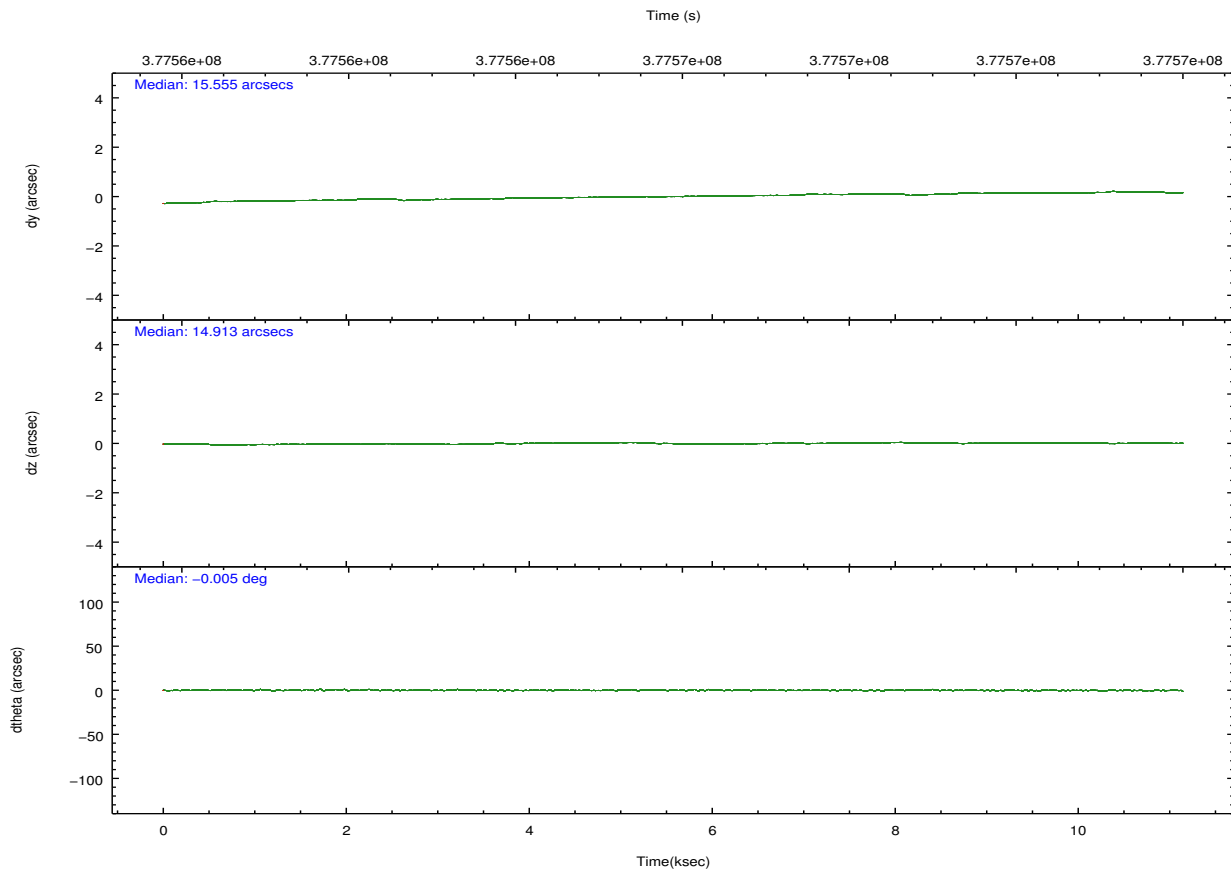
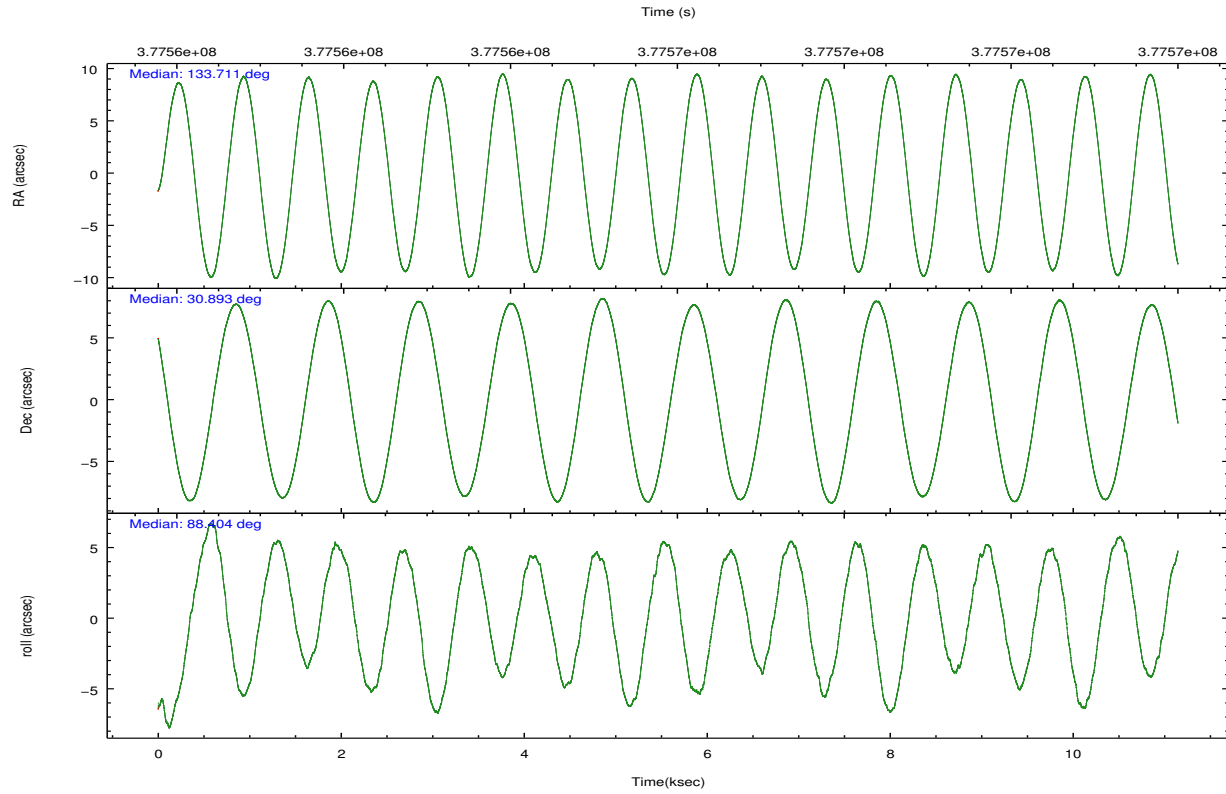
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2366	2270	11316	3032	3185
	3%	3%	11%	4%	4%
grade 1 events	26	28	273	33	113
	0%	0%	0%	0%	0%
grade 2 events	1503	1311	14686	1501	7017
	2%	2%	15%	2%	10%
grade 3 events	732	809	2443	853	3010
	1%	1%	2%	1%	4%
grade 4 events	810	747	1980	746	3083
	1%	1%	2%	1%	4%
grade 5 events	1830	2245	9577	2320	6935
	2%	3%	9%	3%	10%
grade 6 events	1225	1160	22092	1403	15625
	1%	1%	23%	2%	24%
grade 7 events	55930	53265	33647	57197	24974
	86%	86%	35%	85%	39%

## 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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	133.726463	133.7109371948401	CCD I2 on	O2	Y
[deg] Pointing Dec	30.869382	30.89325598514575	CCD I3 on	O3	Y
[deg] Pointing Roll	88.245988	88.4105868651346	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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)	377560964.184000	377559893.31702	CCD S5 on	N	N
Observation start date	2009-12-18T22:01:38	2009-12-18T21:44:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	377571464.184000	377572396.26766	On-chip summing requested	N	N
Observation end date	2009-12-19T00:56:38	2009-12-19T01:13:16	Subarray requested	CUSTOM	CUSTOM
Read mode	TIMED	TIMED	Subarray start row	128	128
			Subarray row count	768	768
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	2.4

## 2.3 Aspect



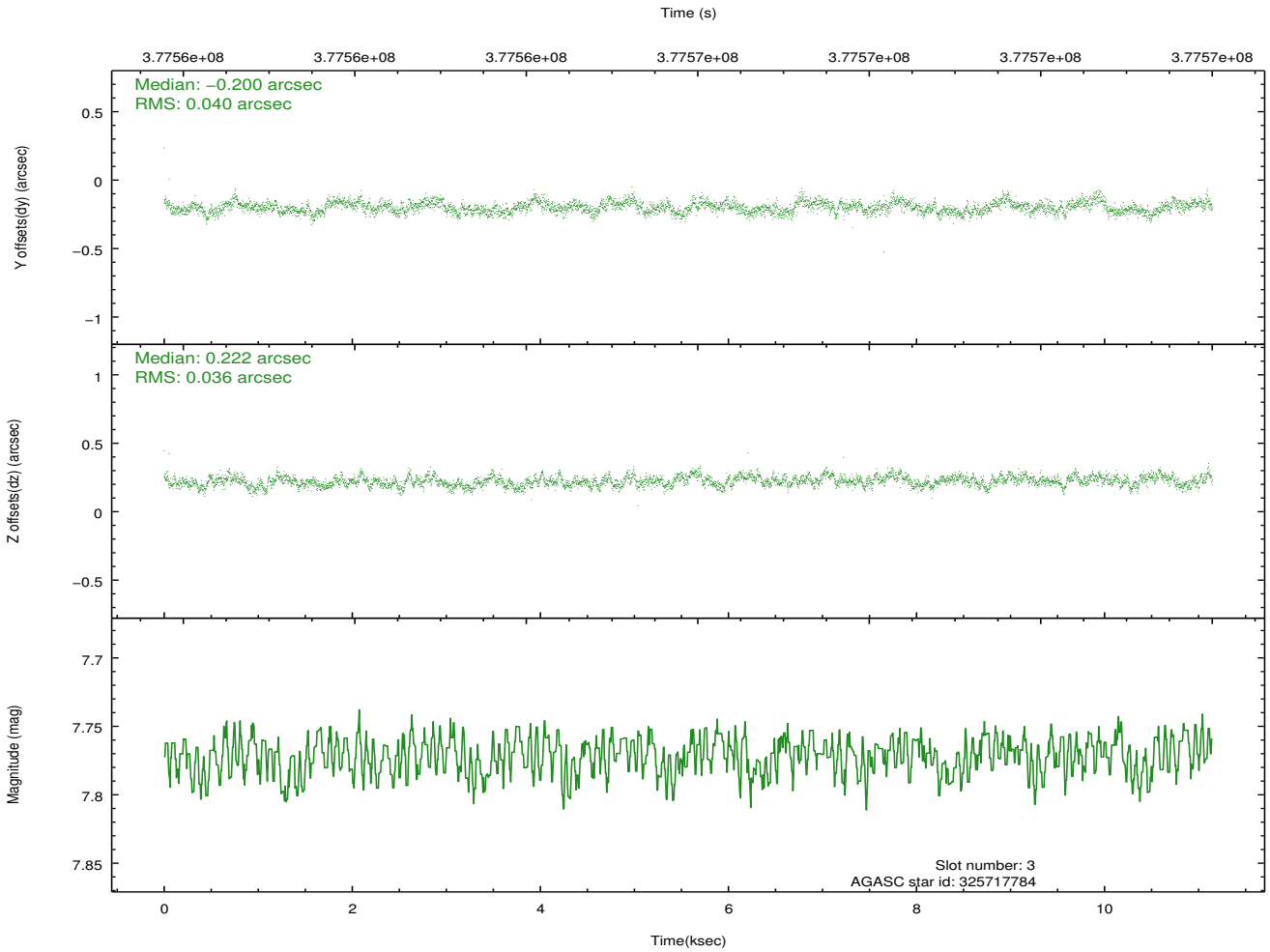
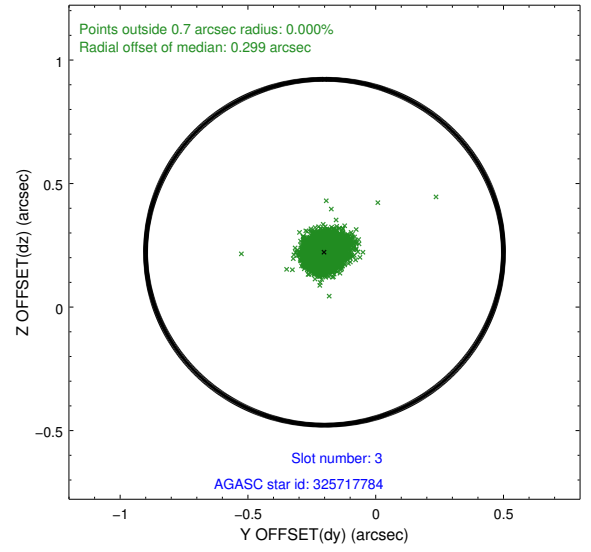
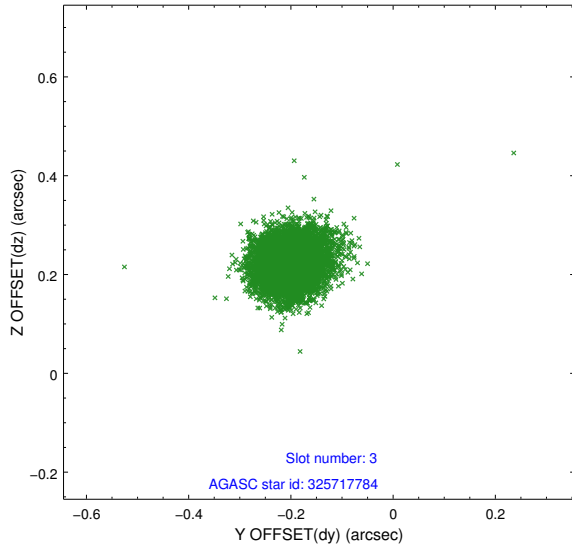


### Slot Statistics

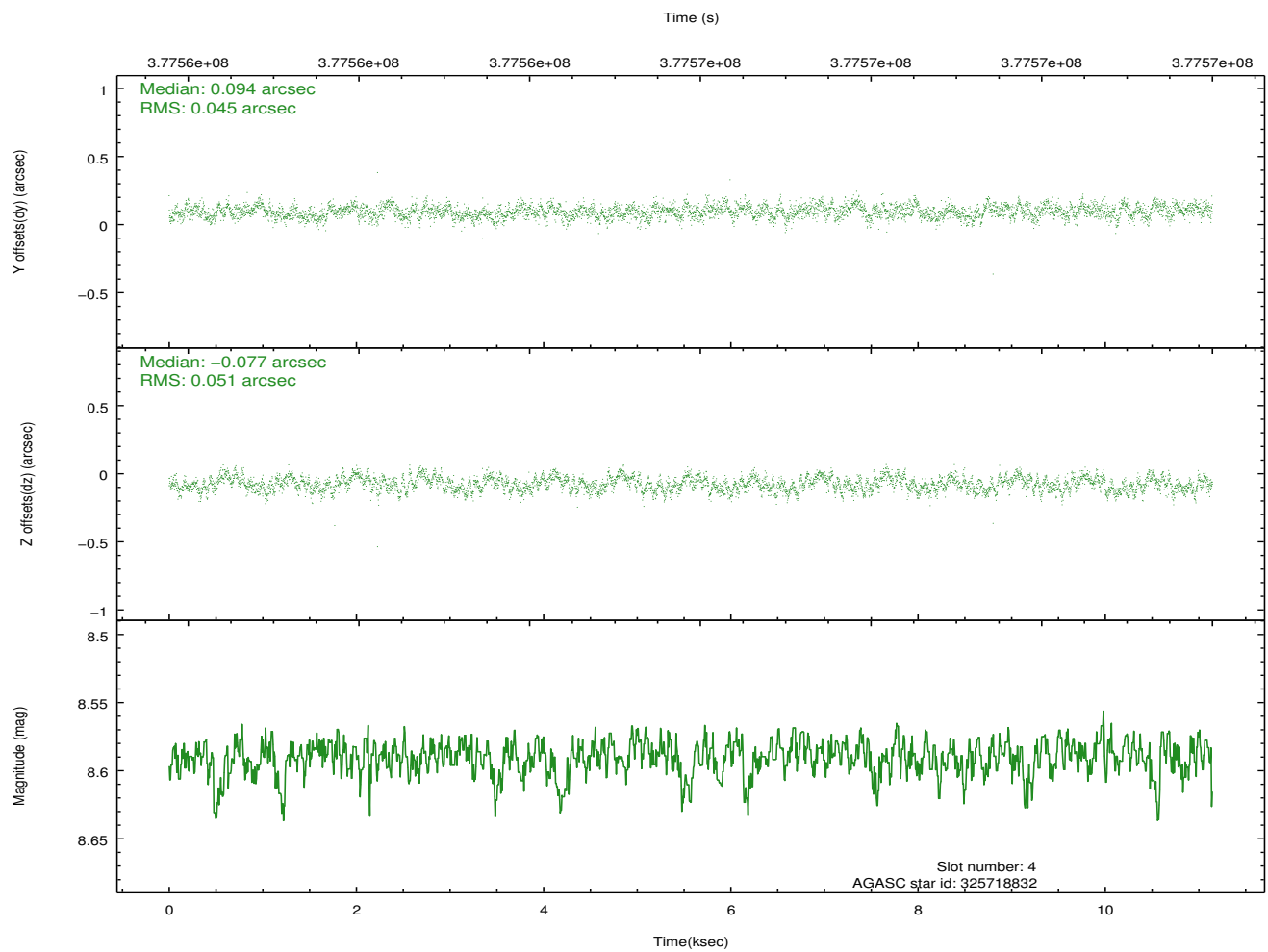
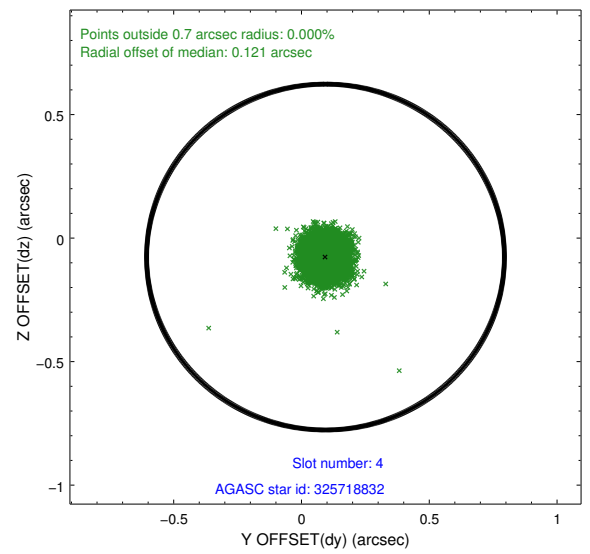
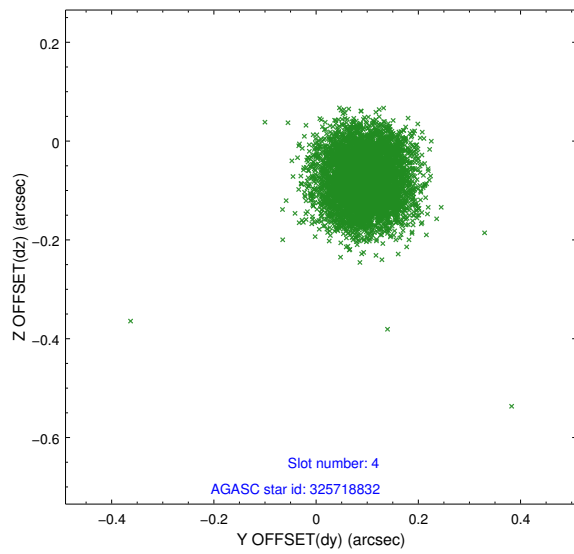
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	2719	-0.106	-0.040	0.009	0.015	0.000000	0.000000	-768.62	-1736.28
1	FID	ACIS-S-4	6.99	2719	0.218	0.062	0.014	0.021	0.000000	0.000000	2144.75	171.85
2	FID	ACIS-S-5	7.01	2719	-0.143	-0.013	0.015	0.021	0.000000	0.000000	-1820.93	165.94
3	GUIDE	325717784	7.77	5438	-0.200	0.222	0.056	0.089	134.307371	30.977098	447.35	-1779.60
4	GUIDE	325718832	8.59	5433	0.094	-0.077	0.073	0.114	133.538389	30.387983	-1749.31	530.42
5	GUIDE	325725360	8.71	5437	-0.083	-0.133	0.084	0.135	133.326551	30.999611	432.69	1248.17
6	GUIDE	325718632	8.33	5438	0.212	-0.054	0.067	0.106	133.597441	30.217818	-2356.15	329.58
7	GUIDE	325715856	8.62	5437	-0.021	0.046	0.100	0.163	134.436811	31.519219	2412.07	-2106.60

## 2.4 Star Slots

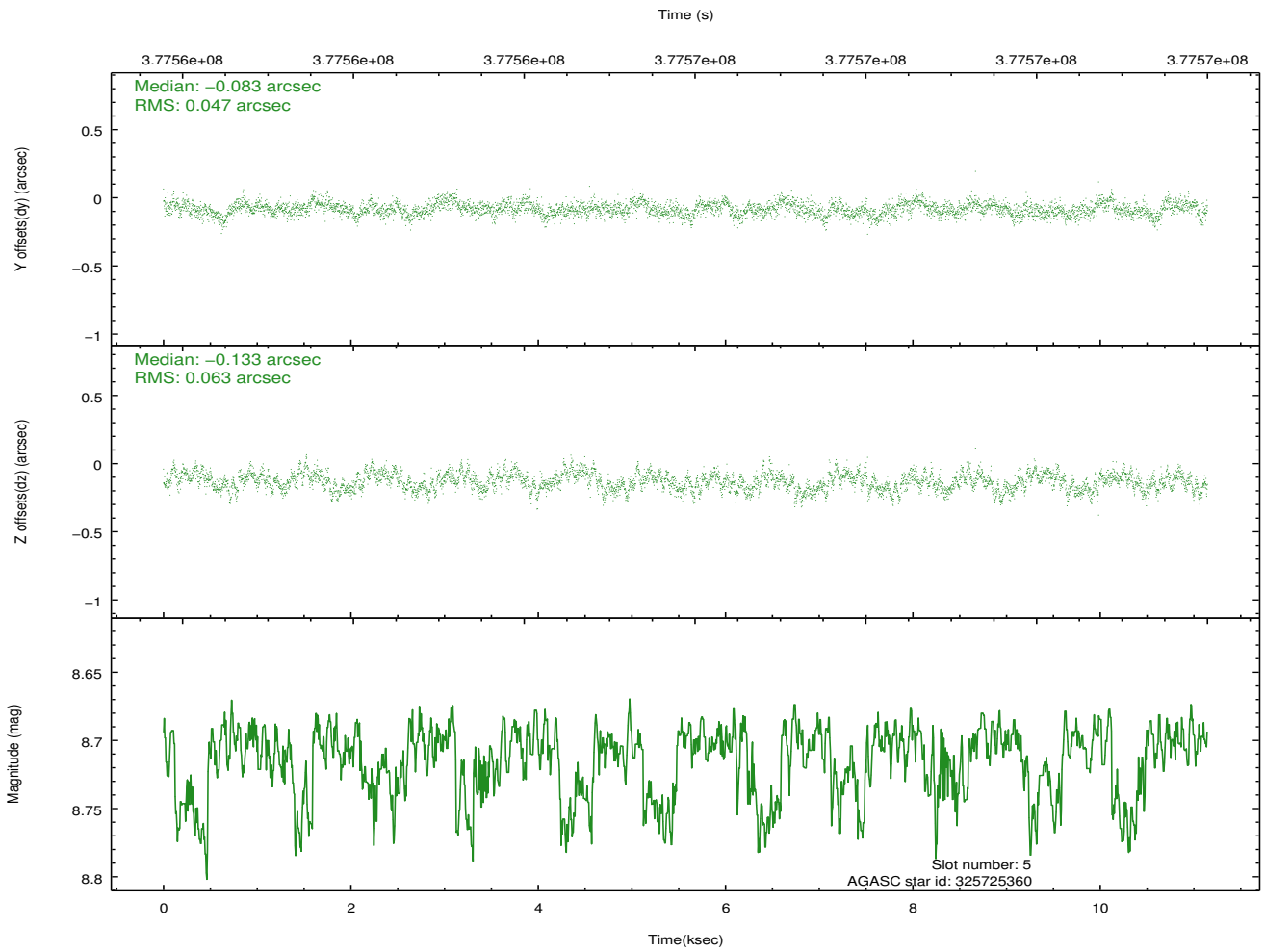
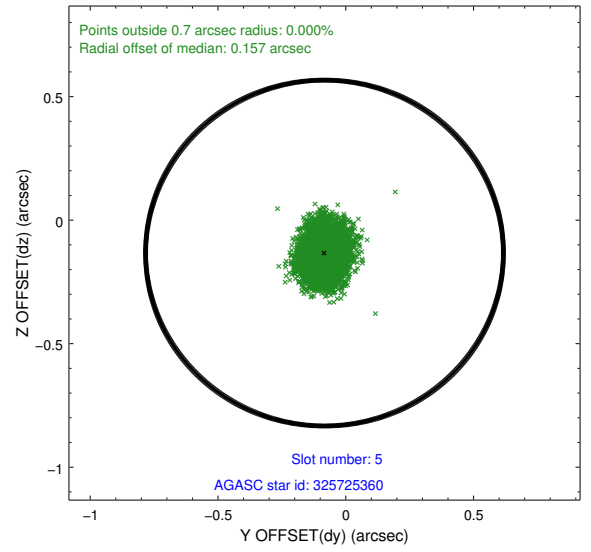
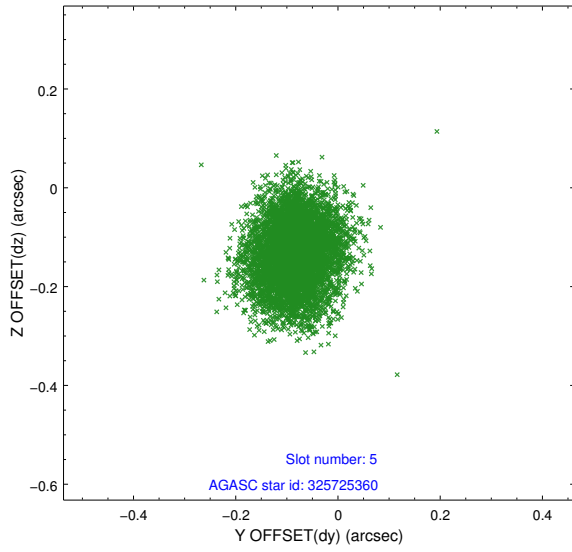
### 2.4.1 Slot 3



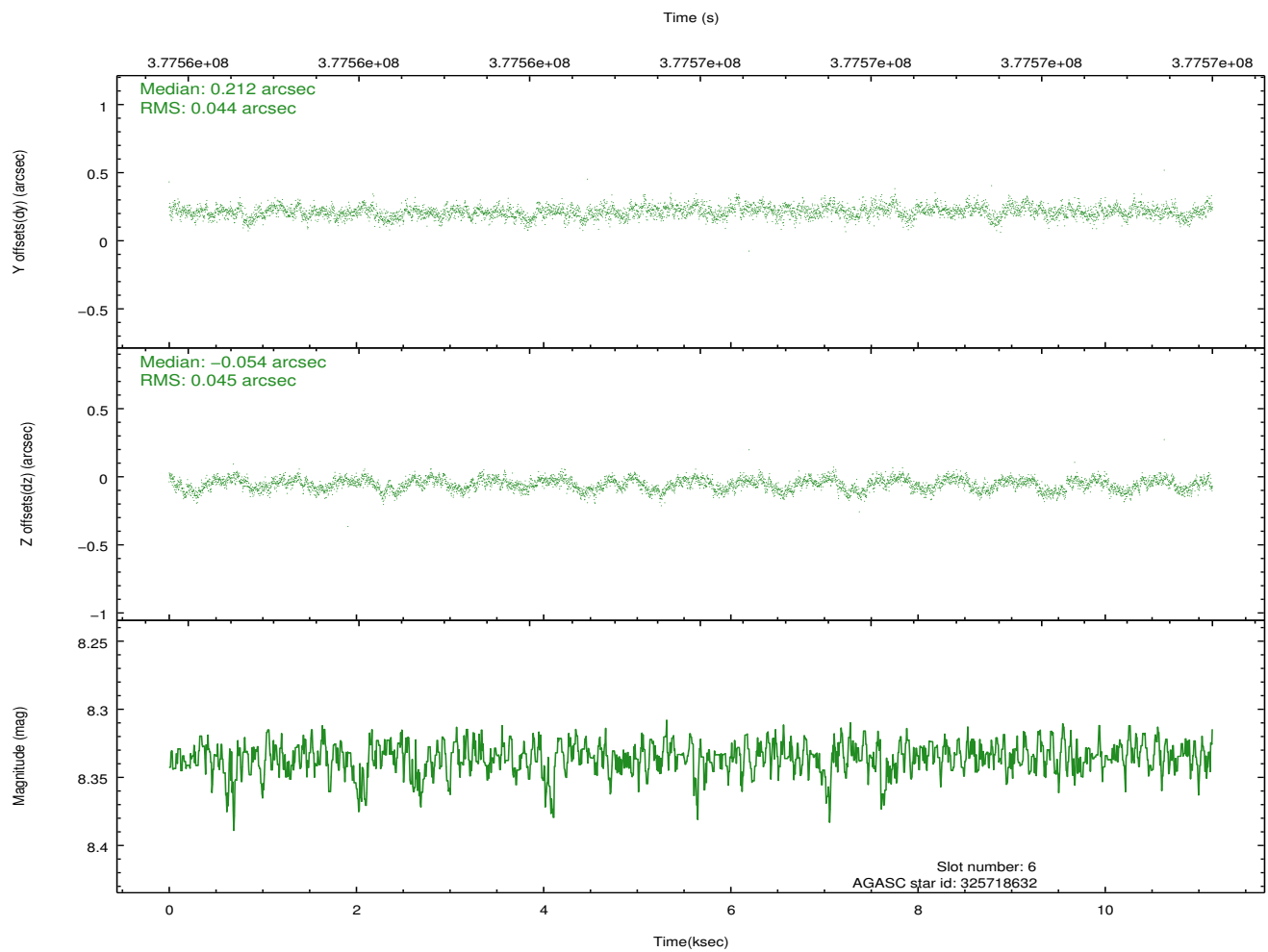
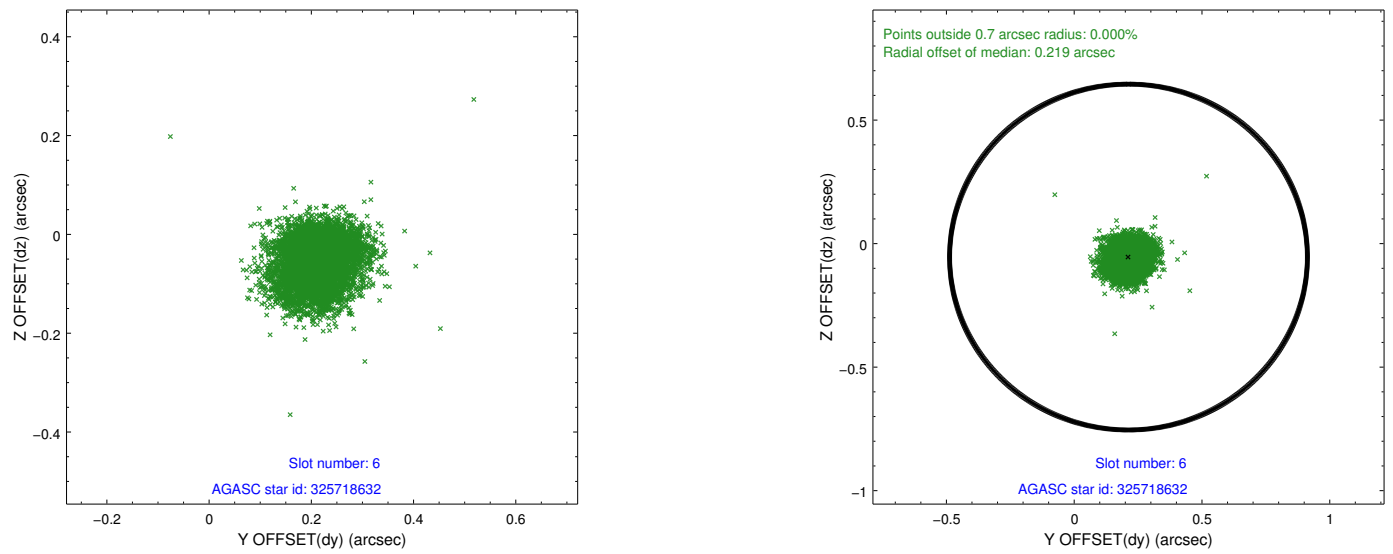
## 2.4.2 Slot 4



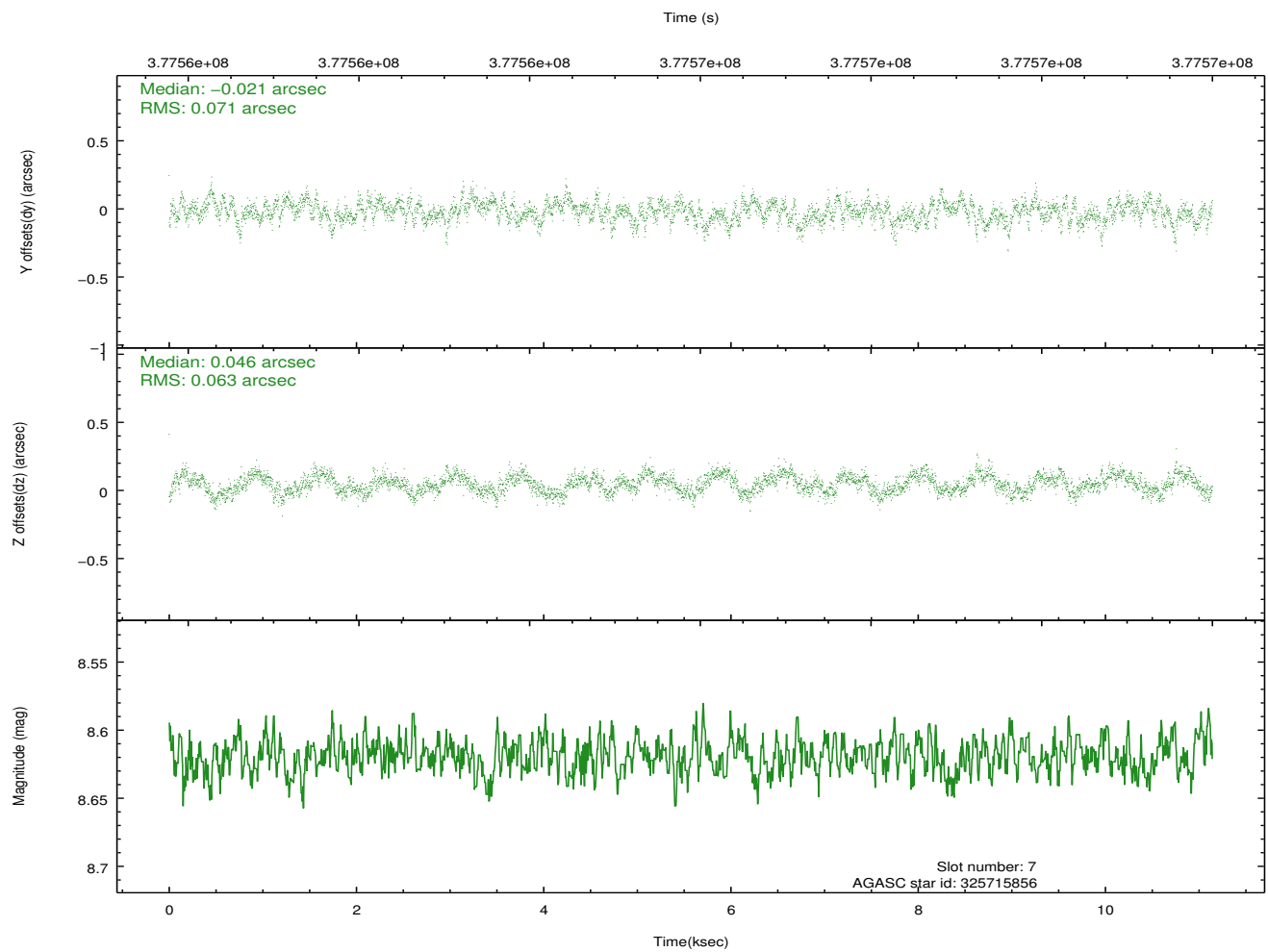
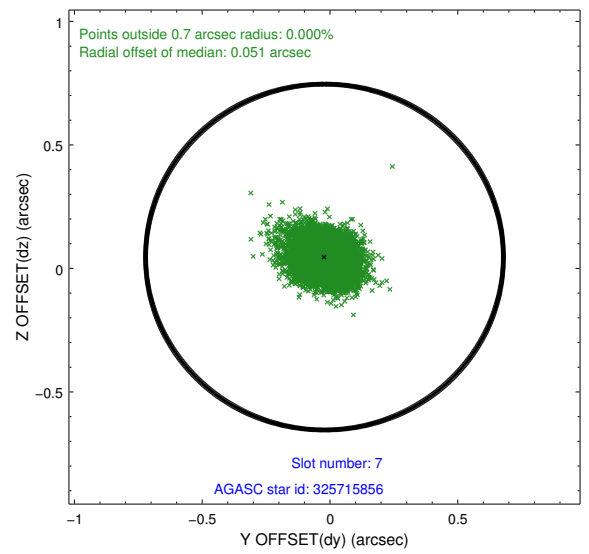
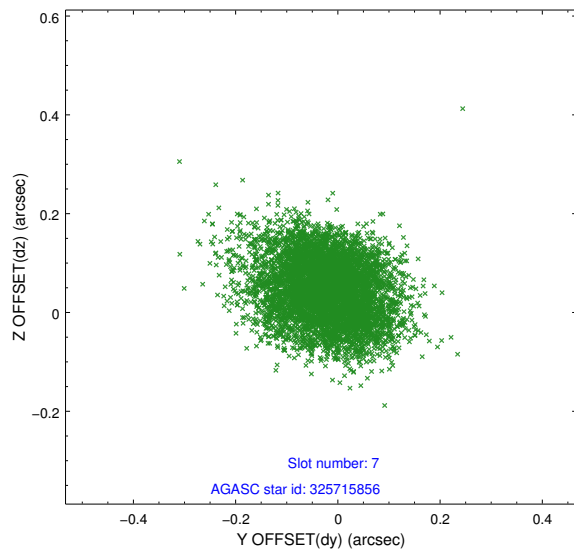
### 2.4.3 Slot 5



## 2.4.4 Slot 6

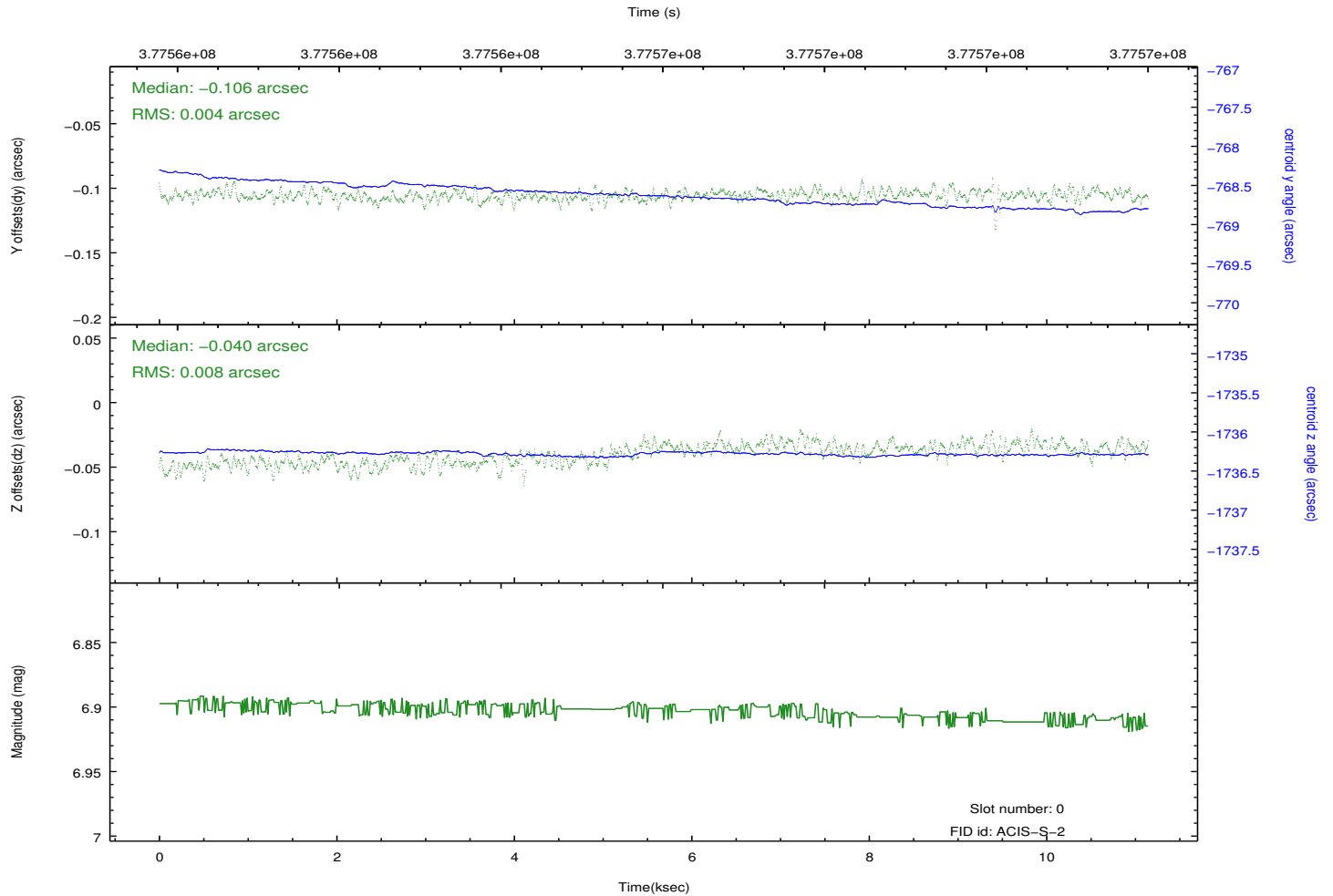
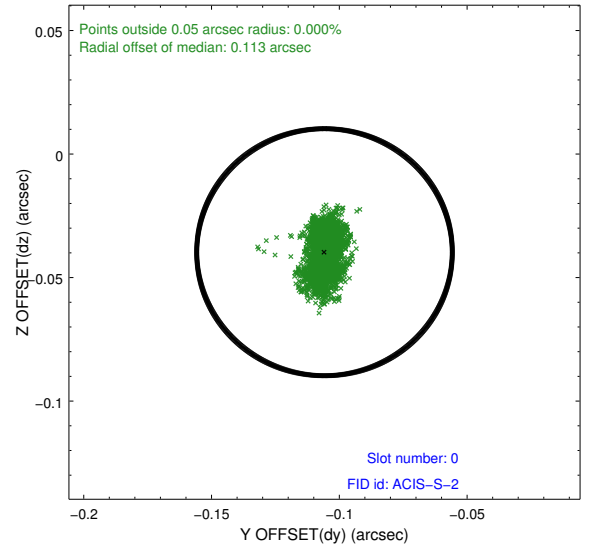
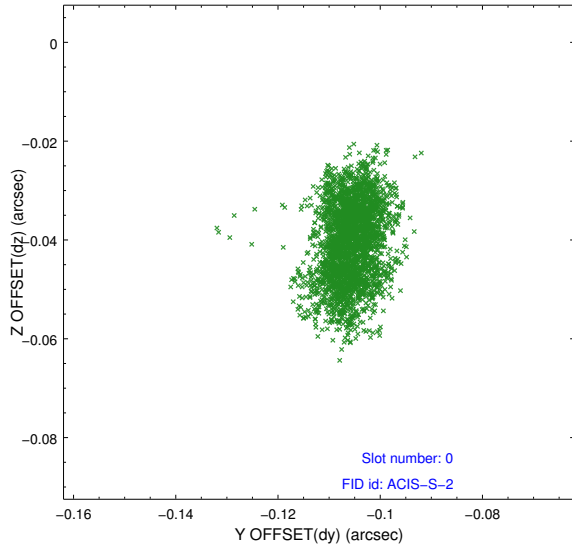


## 2.4.5 Slot 7

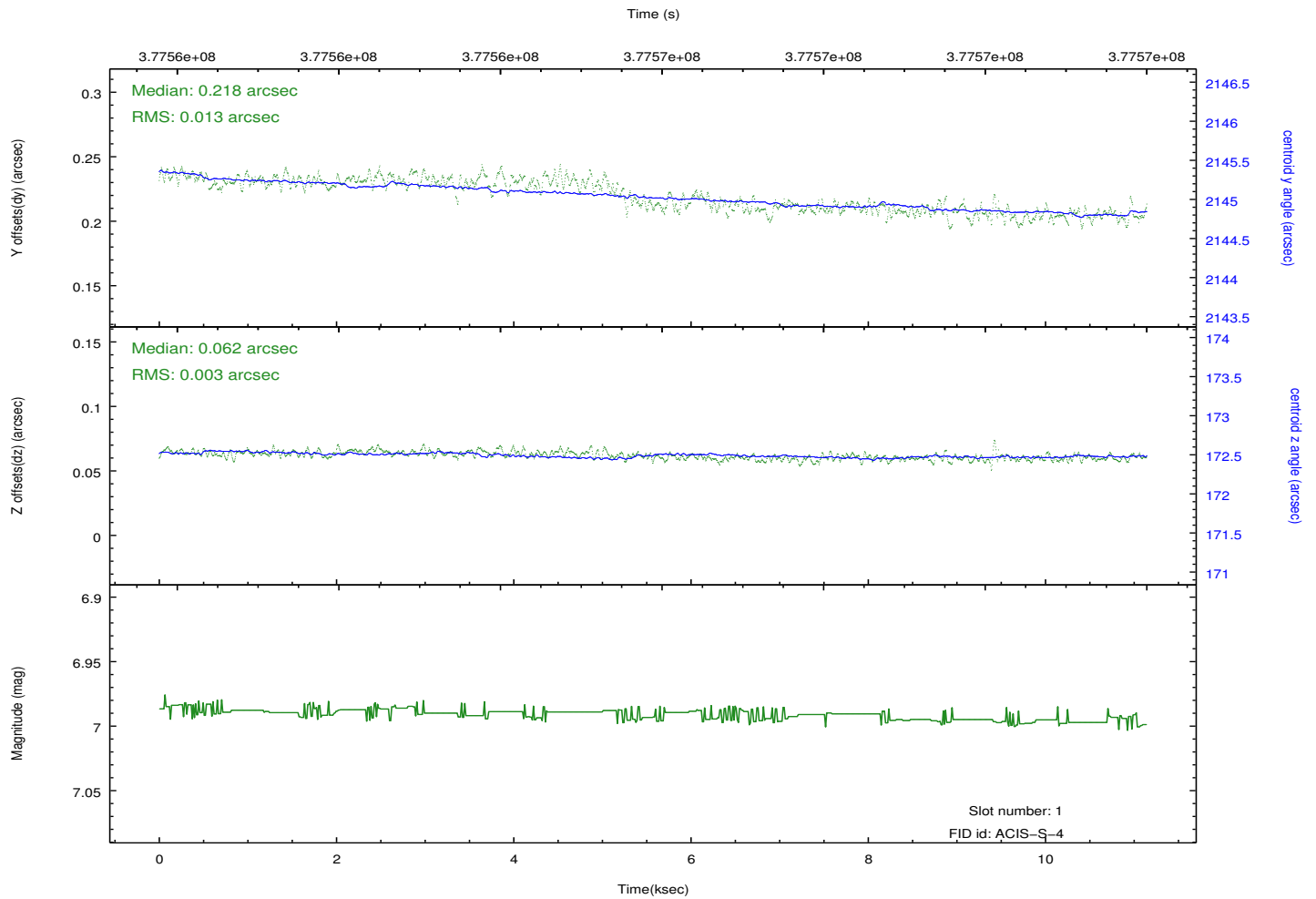
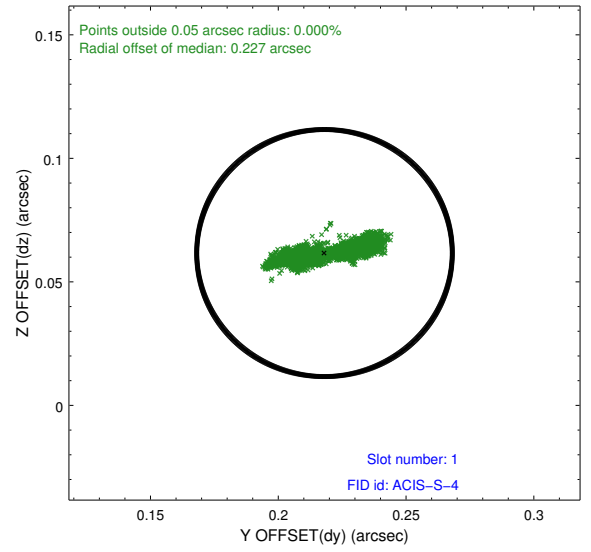
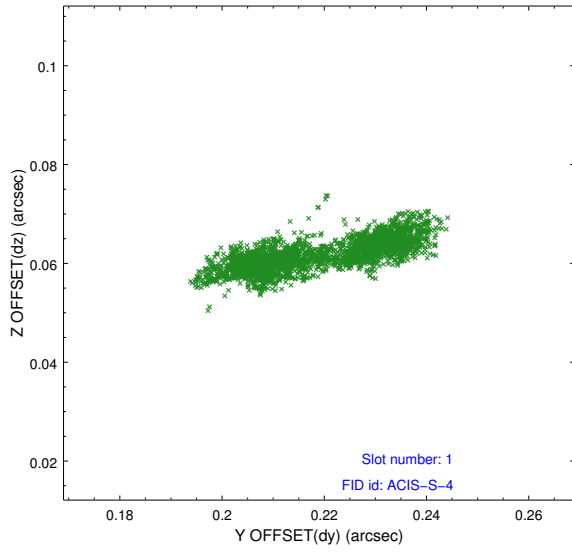


## 2.5 FID Slots

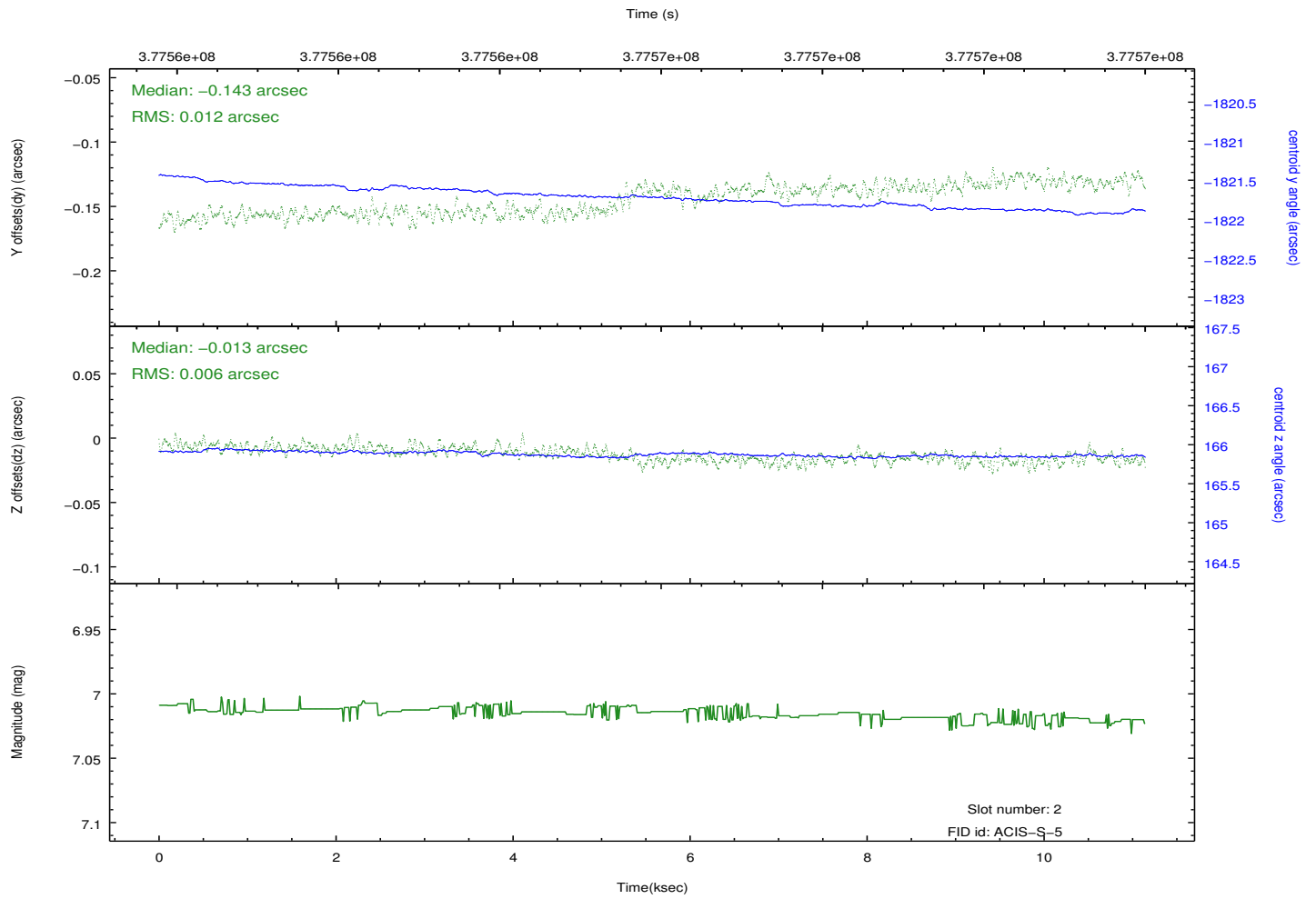
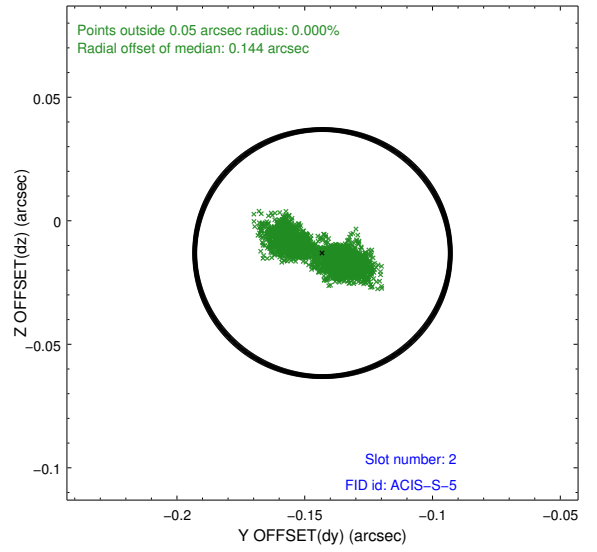
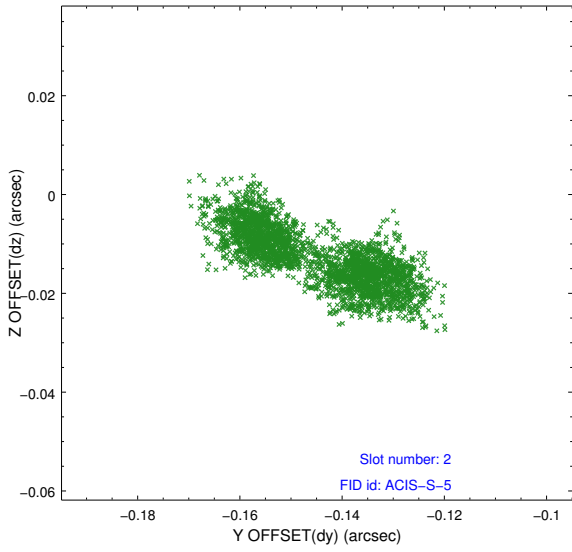
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.530460747778

## A.2 Comments