

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10472 - L2 Version 2  
Chandra X-Ray Center

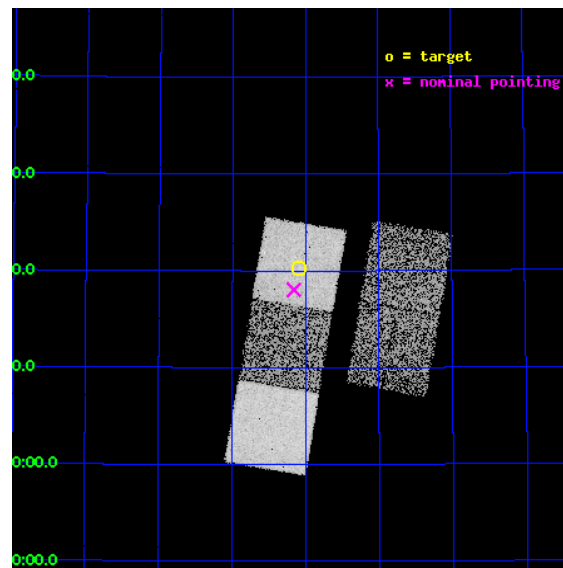
L2 Processing Date : Jun 9 2012

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# 1 Front

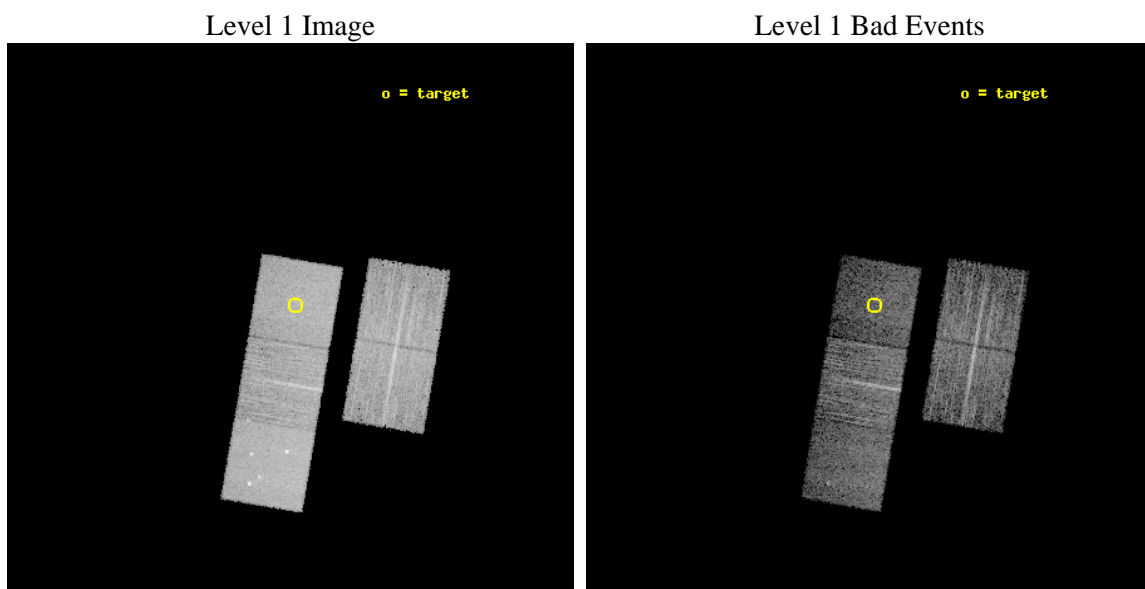
seq_num	800830	Sequence number
obs_id	10472	Observation id
title	The Origin and Evolution of Fossil Groups	Proposal title
observer	Dr. Eli Rykoff	Principal investigator
object	SDSS J1133+5920	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.272917	Observer's specified target RA [deg]
dec_targ	59.337139	Observer's specified target Dec [deg]
ra_nom	173.28983568969	Nominal RA [deg]
dec_nom	59.300666935595	Nominal Dec [deg]
roll_nom	279.61720253017	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5793.9000445604	Sum of GTIs [s]
liveltime	5718.1984750711	Livetime [s]
ontime2	5793.9000445604	Sum of GTIs [s]
ontime3	5787.6181036234	Sum of GTIs [s]
ontime5	5793.9000445604	Sum of GTIs [s]
ontime6	5793.9000445604	Sum of GTIs [s]
ontime7	5793.9000445604	Sum of GTIs [s]
l2events	70504	Number of level 2 events



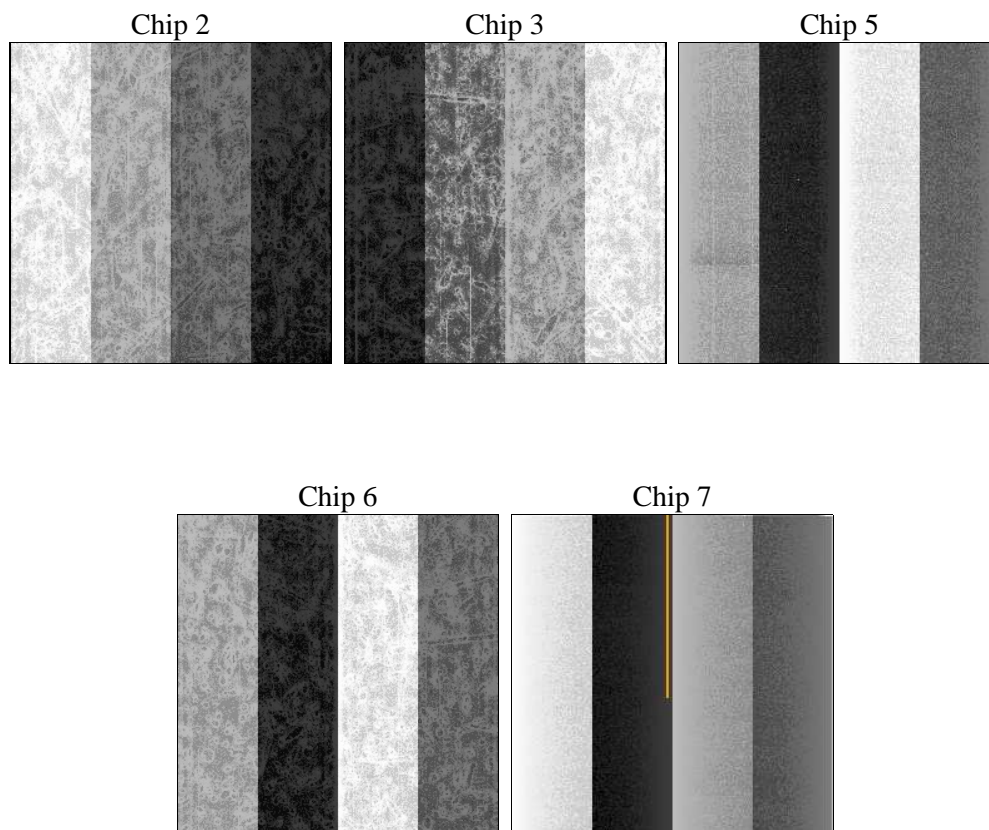
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5660.257000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5793.9000445604	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	5793.9000445604	Sum of GTIs [s]
date	2012-06-09T23:07:14	Date and time of file creation	ontime3	5787.6181036234	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5793.9000445604	Sum of GTIs [s]
			ontime6	5793.9000445604	Sum of GTIs [s]
			ontime7	5793.9000445604	Sum of GTIs [s]
			l1events	290222	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	51528	50122	75017	54785	58770
rejected events	46535	45528	39004	49451	33082
rejected %	90%	90%	51%	90%	56%

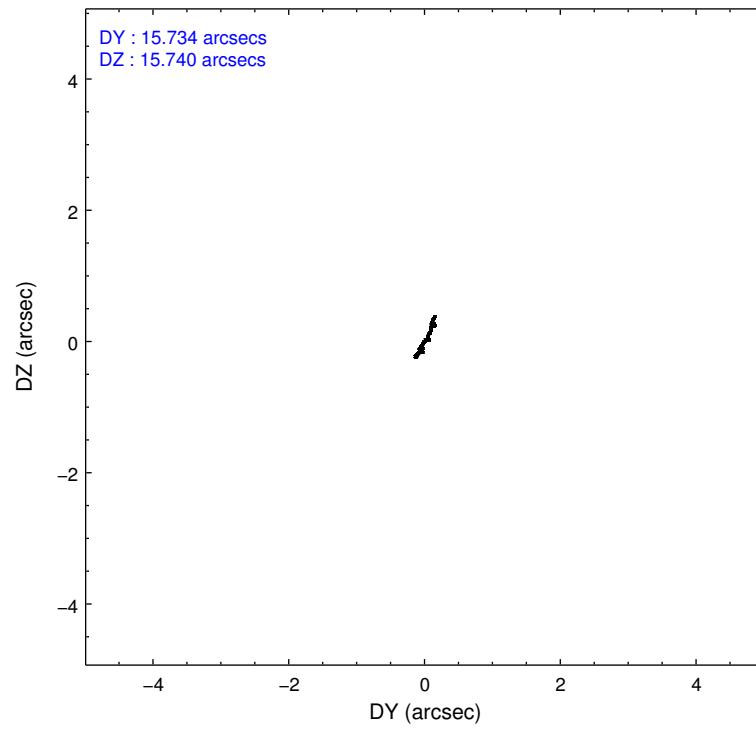
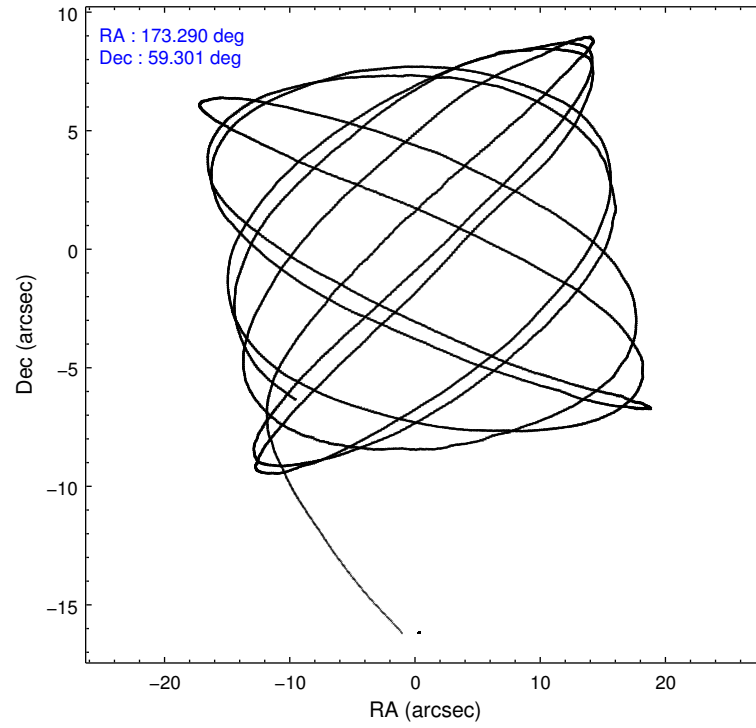
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	1953	1635	4576	1937	2659
	3%	3%	6%	3%	4%
grade 1 events	27	34	243	35	86
	0%	0%	0%	0%	0%
grade 2 events	1188	1112	11365	1279	5585
	2%	2%	15%	2%	9%
grade 3 events	549	599	1369	599	2422
	1%	1%	1%	1%	4%
grade 4 events	609	522	1459	615	2460
	1%	1%	1%	1%	4%
grade 5 events	1697	2093	5672	2076	6156
	3%	4%	7%	3%	10%
grade 6 events	945	970	19149	1209	13783
	1%	1%	25%	2%	23%
grade 7 events	44560	43157	31184	47035	25619
	86%	86%	41%	85%	43%

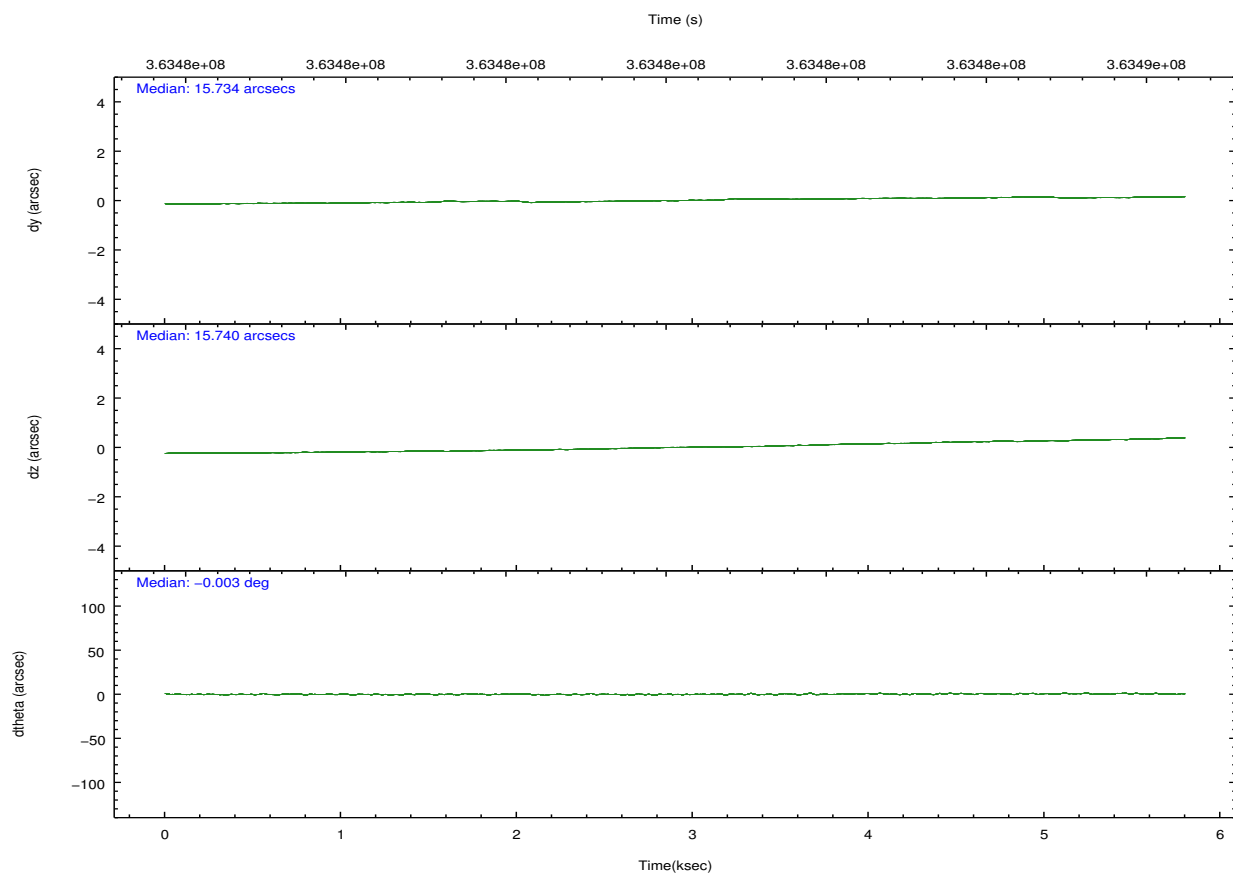
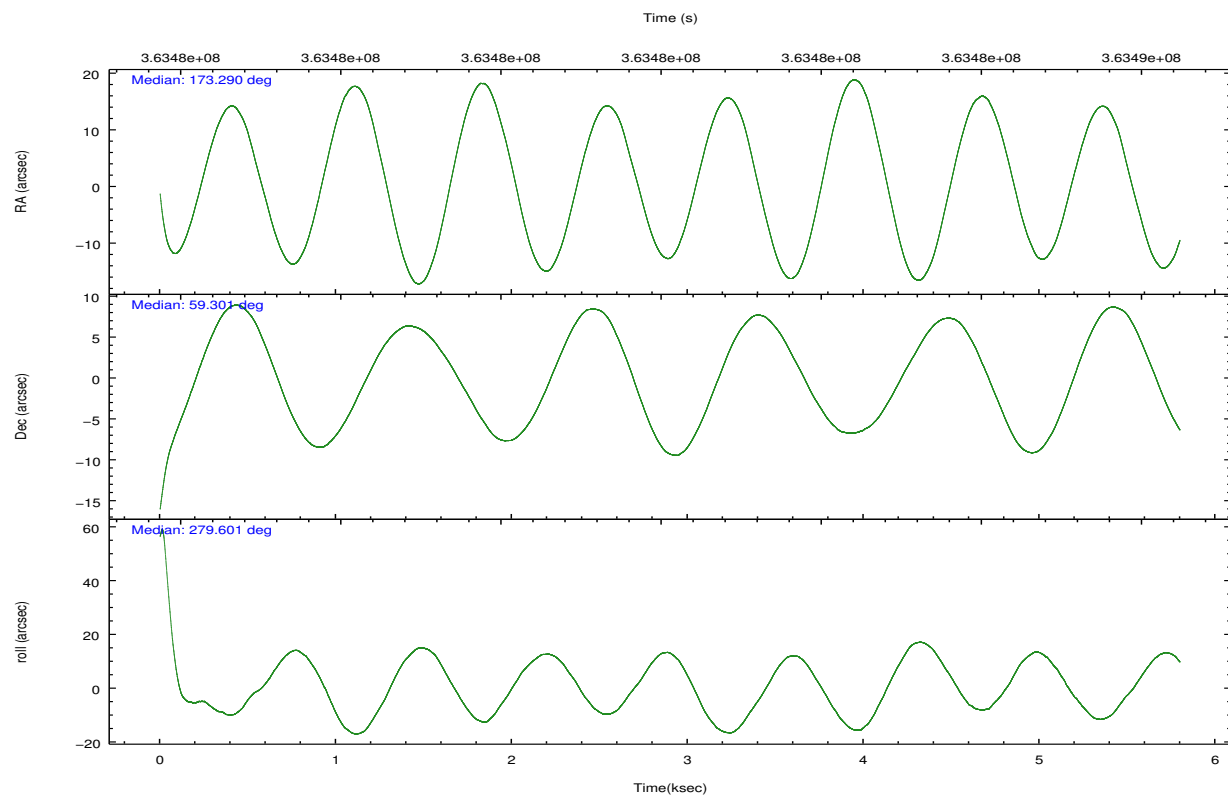


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	173.255202	173.2898356896864	CCD I2 on	O1	Y
[deg] Pointing Dec	59.321432	59.30066693559492	CCD I3 on	O2	Y
[deg] Pointing Roll	279.490204	279.6172025301681	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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)	363480302.184000	363479176.50946	CCD S5 on	N	N
Observation start date	2009-07-08T22:43:56	2009-07-08T22:26:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363485962.184000	363486186.48481	On-chip summing requested	N	N
Observation end date	2009-07-09T00:18:16	2009-07-09T00:23:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



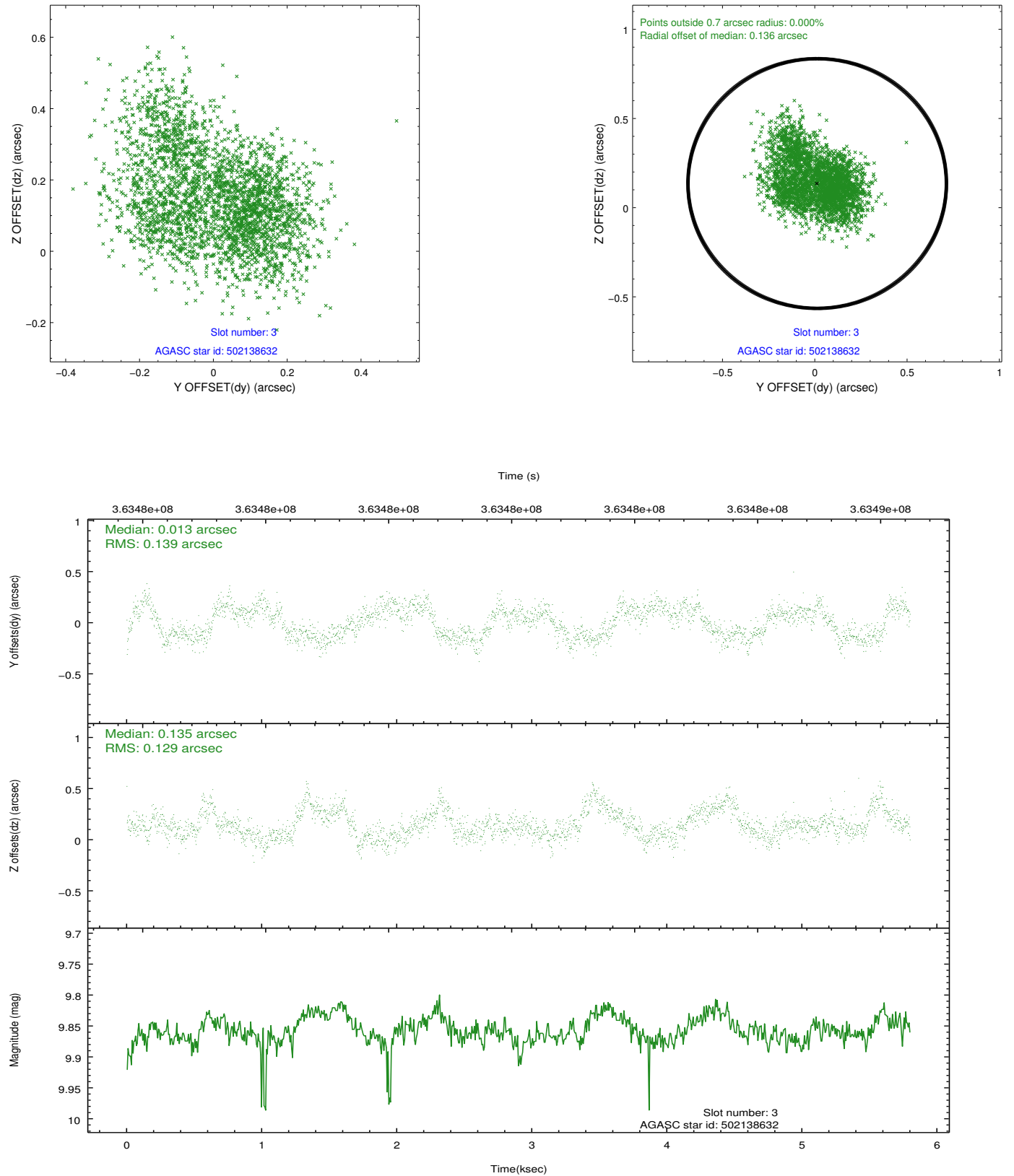


### Slot Statistics

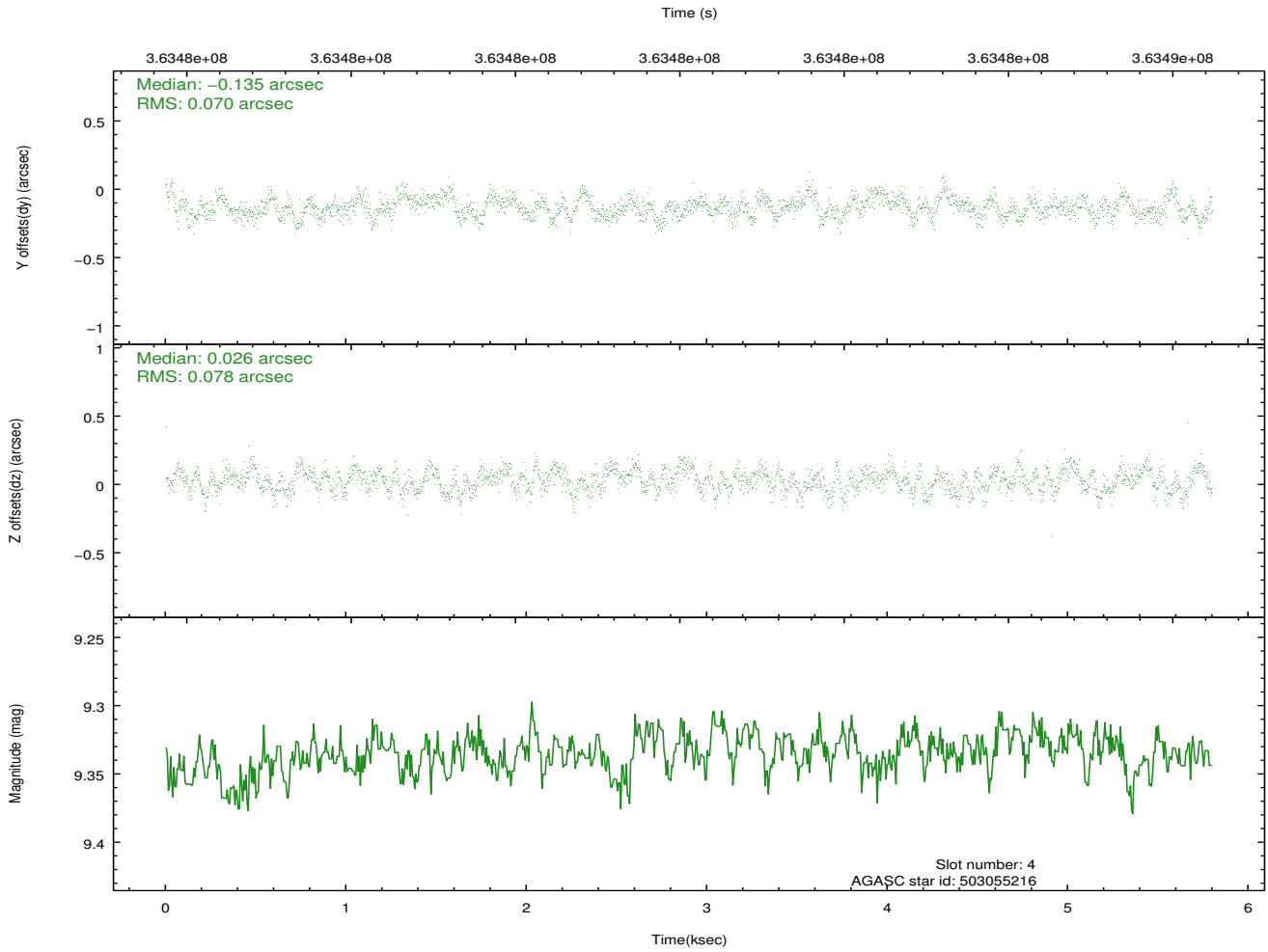
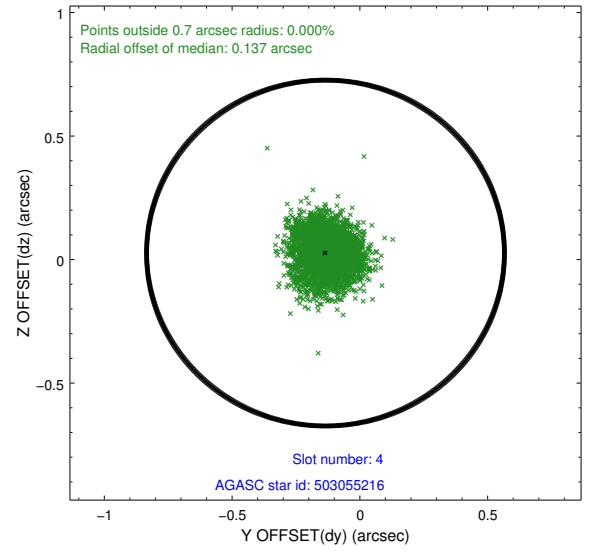
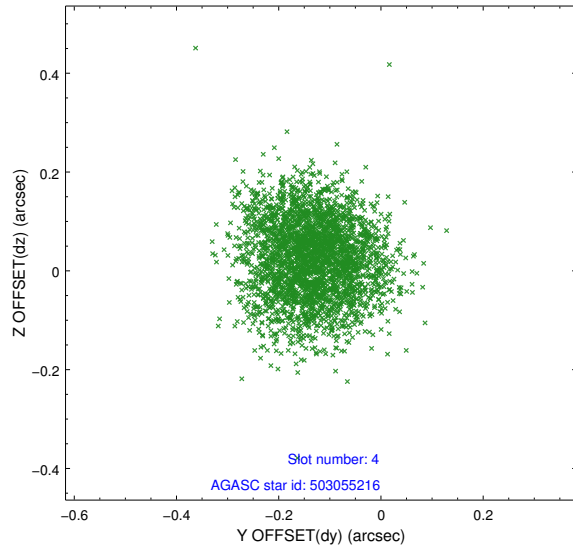
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1415	-0.101	-0.063	0.015	0.020	0.000000	0.000000	-768.86	-1737.16
1	FID	ACIS-S-4	7.00	1415	0.117	0.052	0.010	0.016	0.000000	0.000000	2144.19	170.33
2	FID	ACIS-S-6	7.13	1414	-0.044	0.017	0.009	0.014	0.000000	0.000000	394.53	808.89
3	GUIDE	502138632	9.86	2805	0.013	0.135	0.203	0.321	172.306151	58.735940	1775.50	-2093.79
4	GUIDE	503055216	9.34	2827	-0.135	0.026	0.114	0.174	174.298019	59.296608	389.93	1877.21
5	GUIDE	503059424	9.47	2827	0.160	0.031	0.143	0.229	174.449124	58.799440	2201.51	1890.70
6	GUIDE	503061752	8.31	2830	-0.038	-0.096	0.078	0.132	174.608337	59.099209	1177.36	2340.34
7	GUIDE	502140120	9.84	2823	-0.003	-0.120	0.150	0.249	172.990279	58.650244	2301.68	-886.94

## 2.4 Star Slots

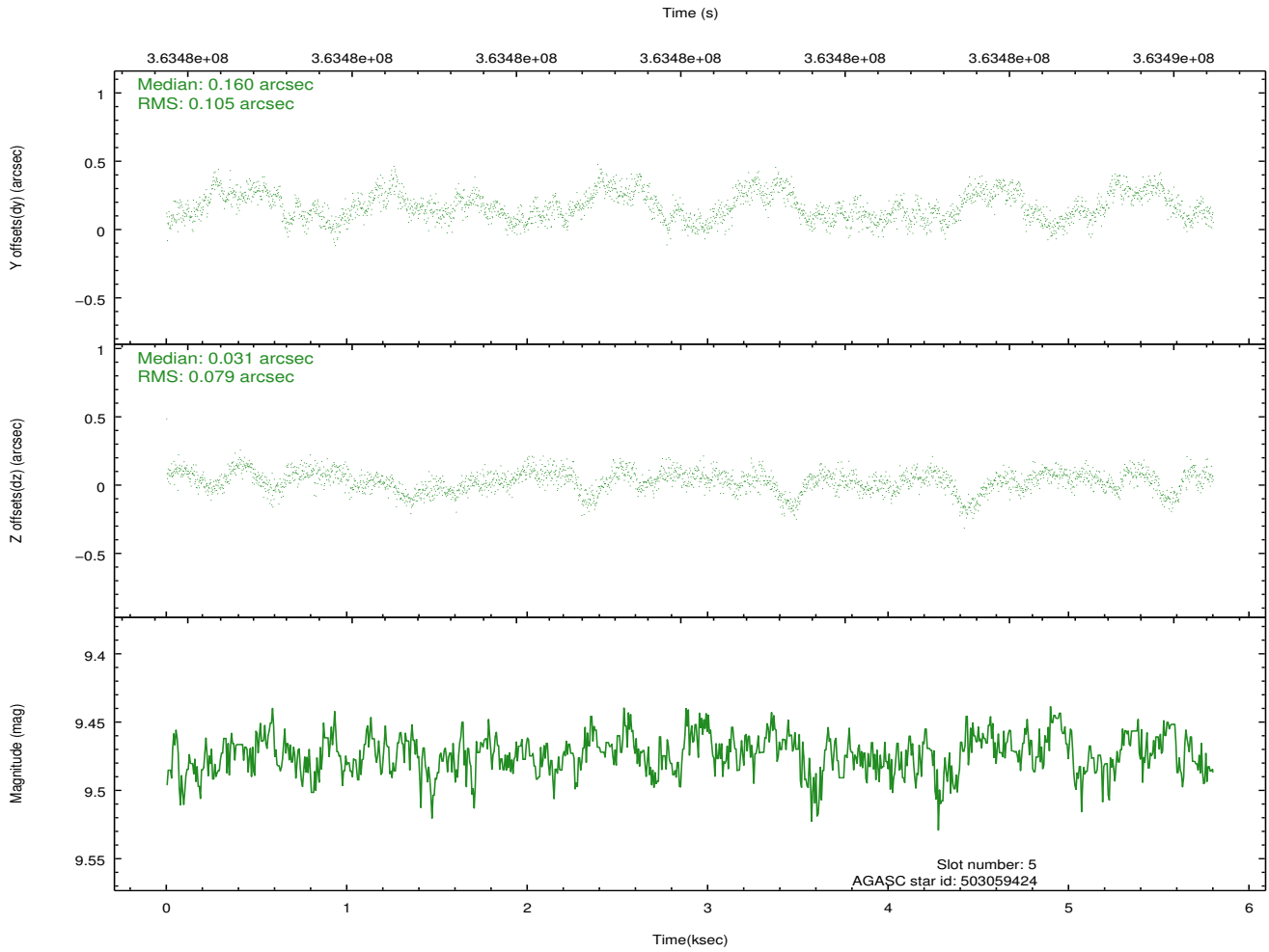
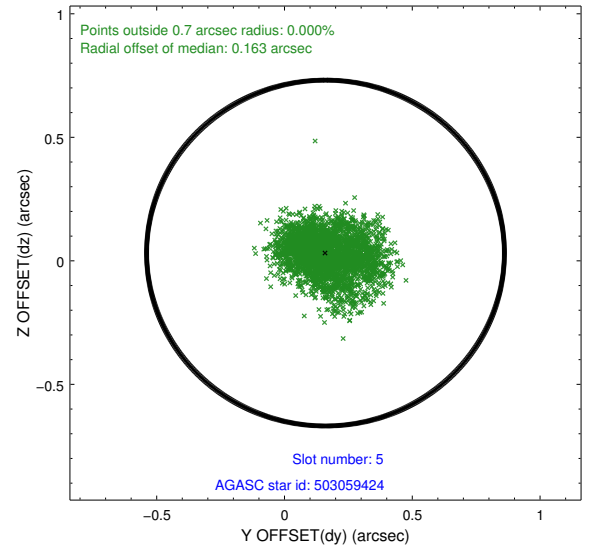
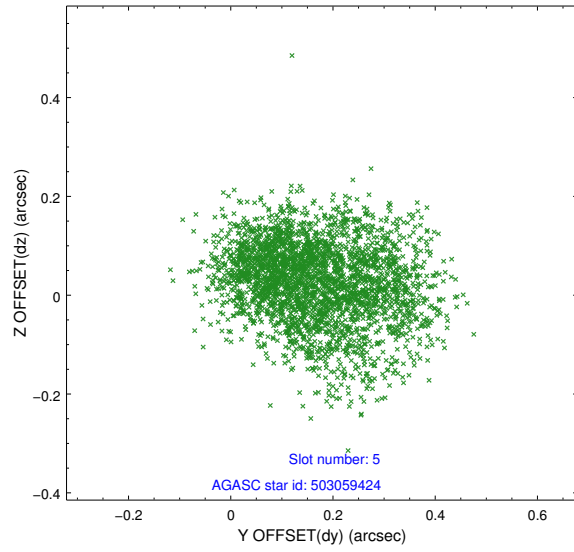
### 2.4.1 Slot 3



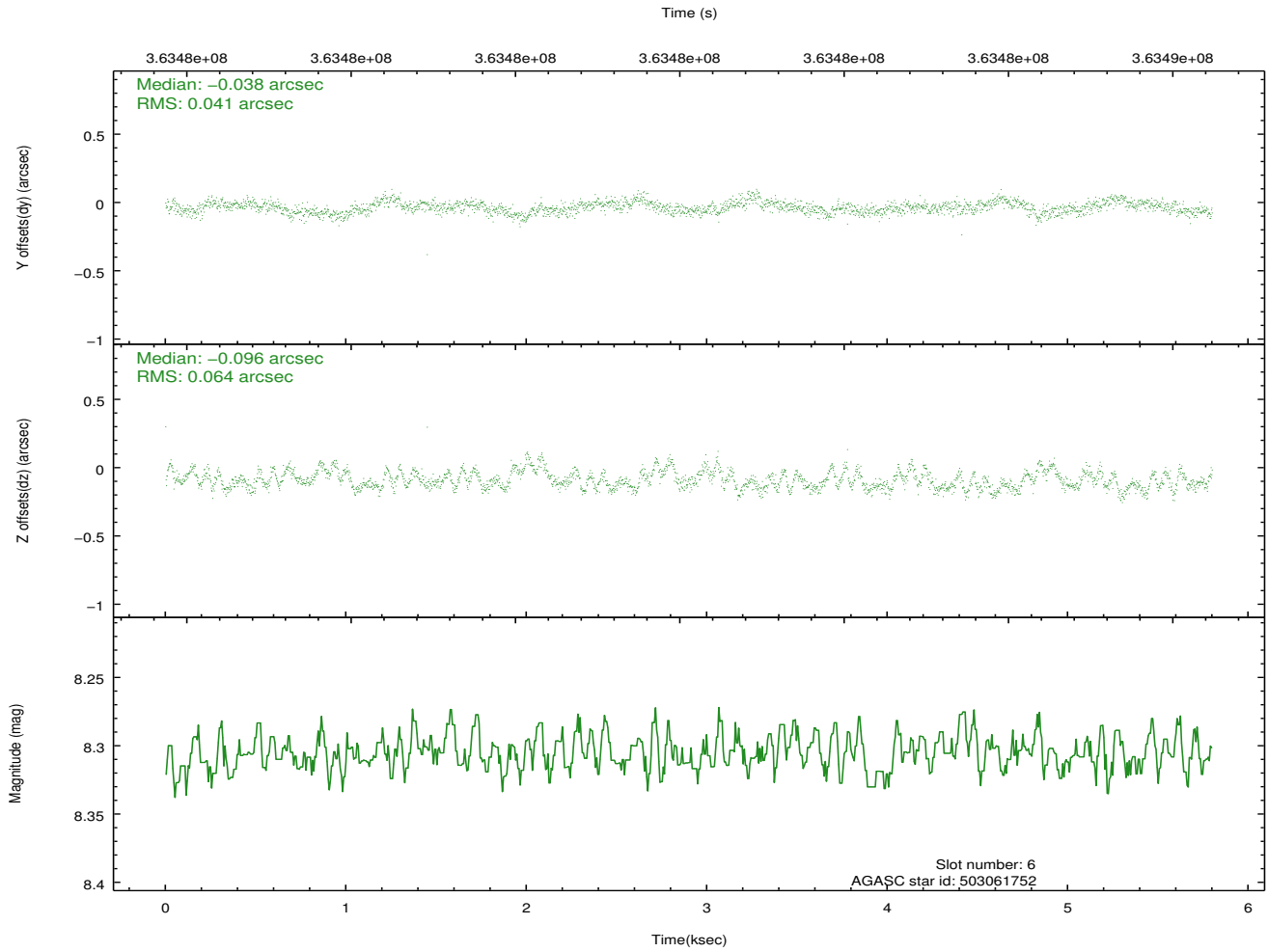
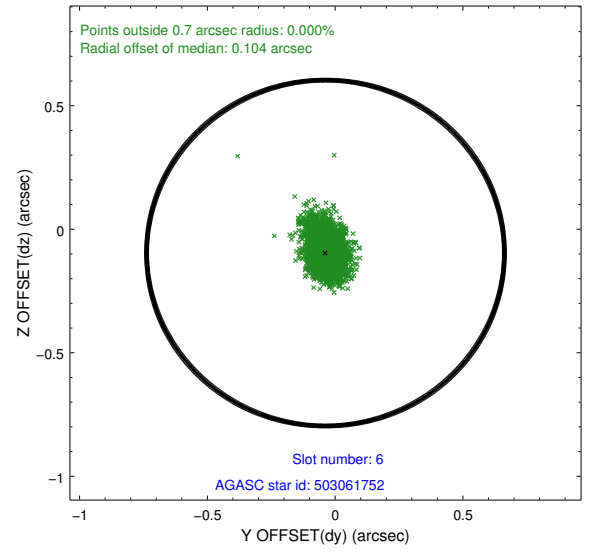
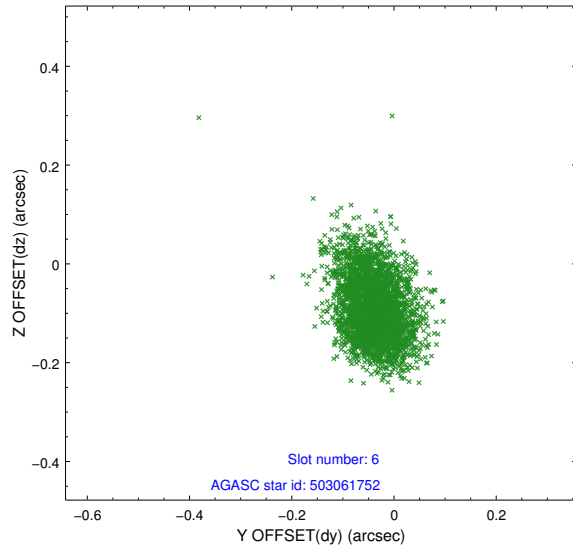
## 2.4.2 Slot 4



### 2.4.3 Slot 5

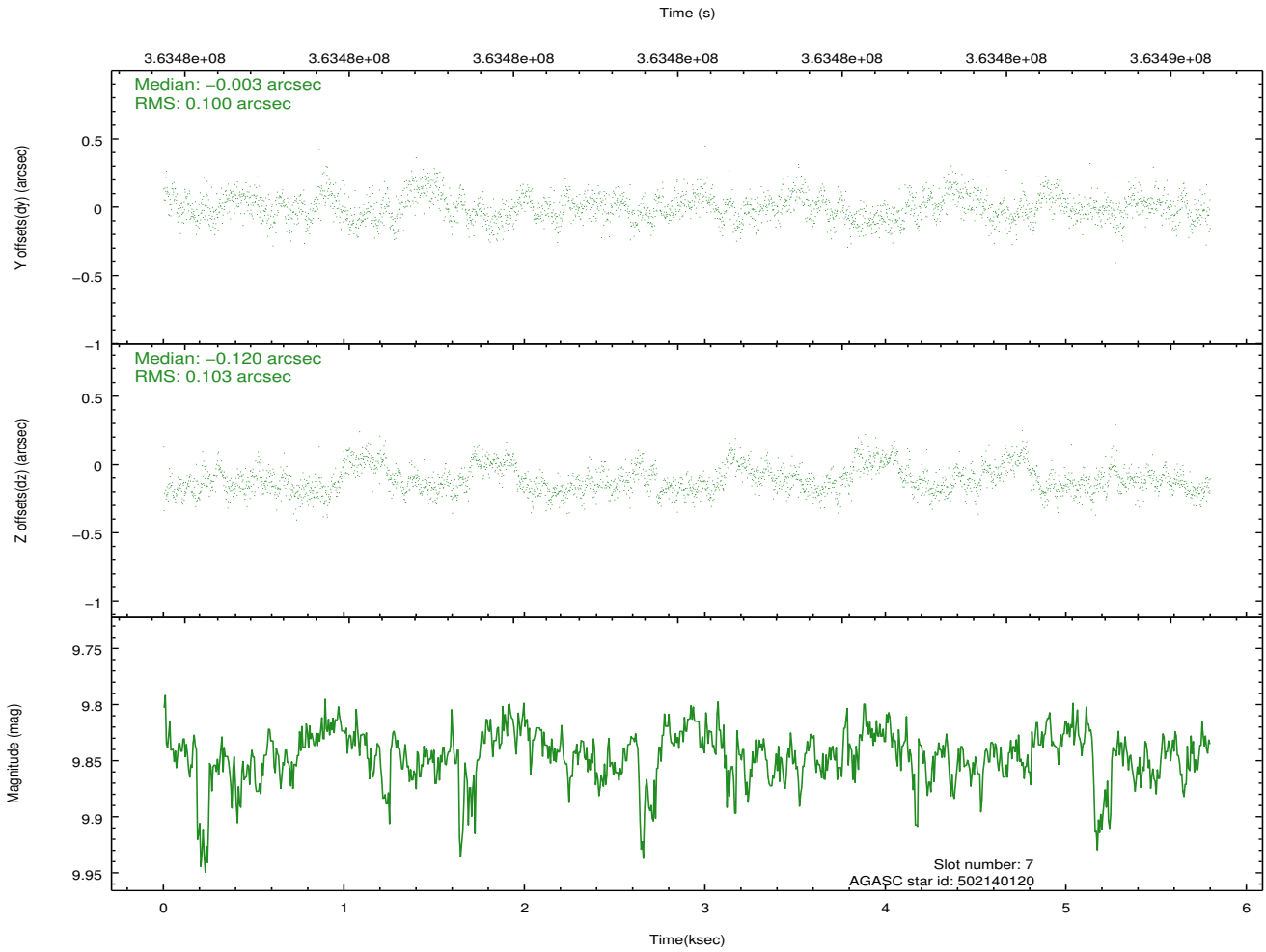
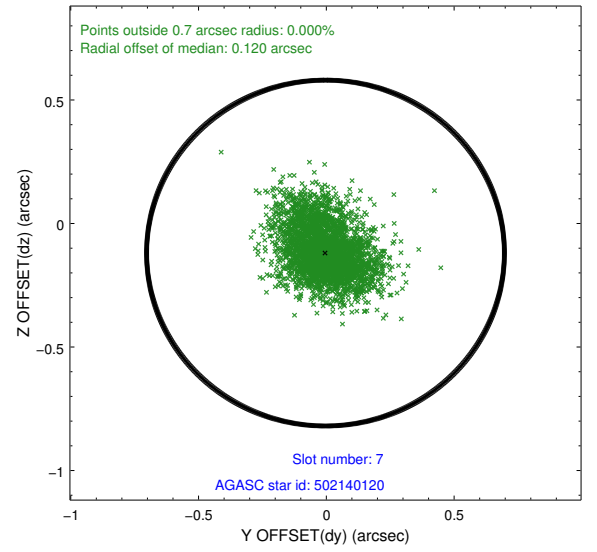
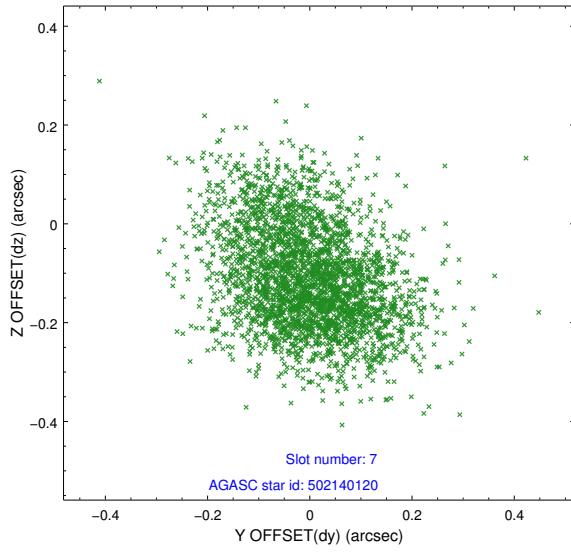


## 2.4.4 Slot 6



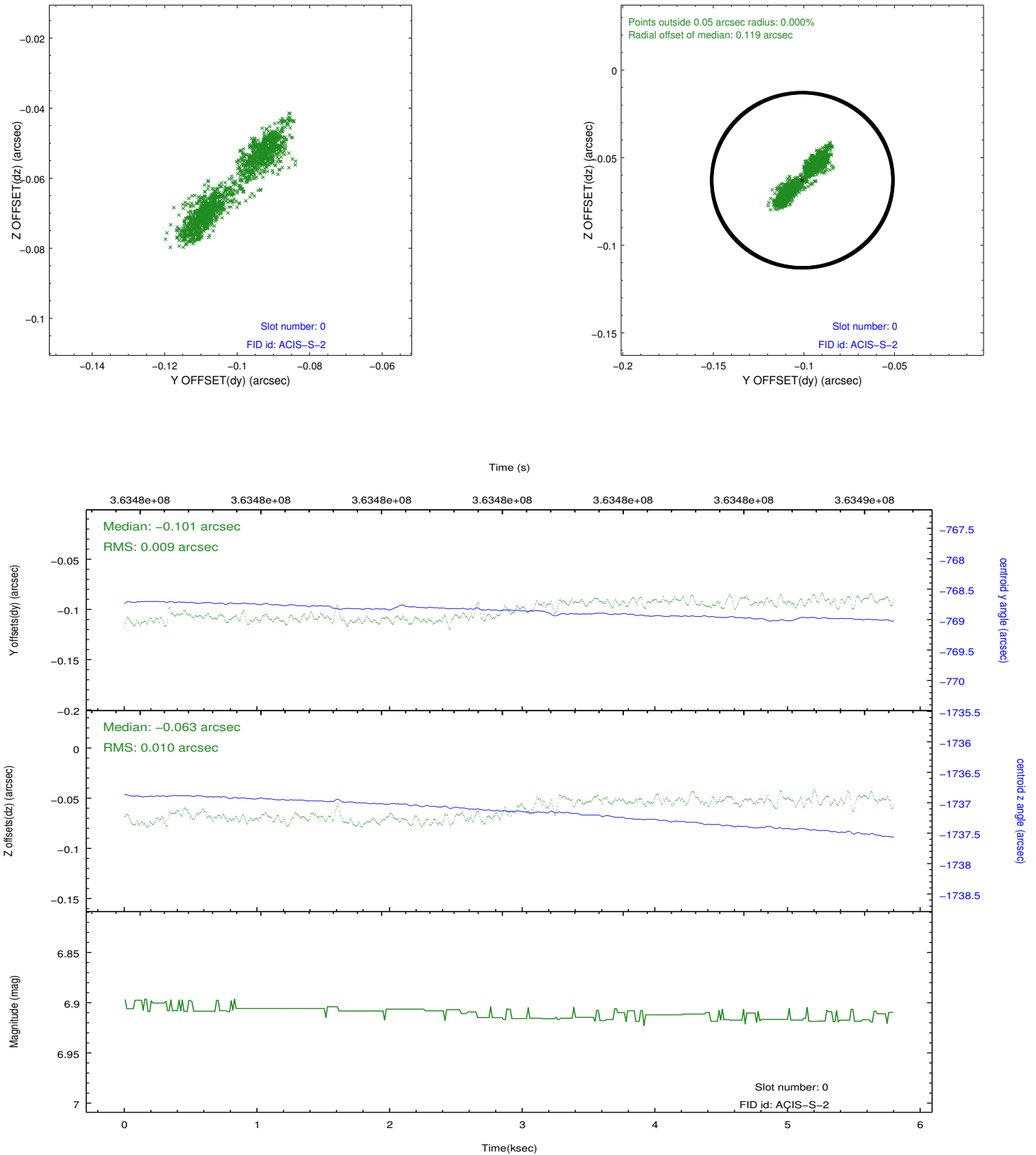


## 2.4.5 Slot 7

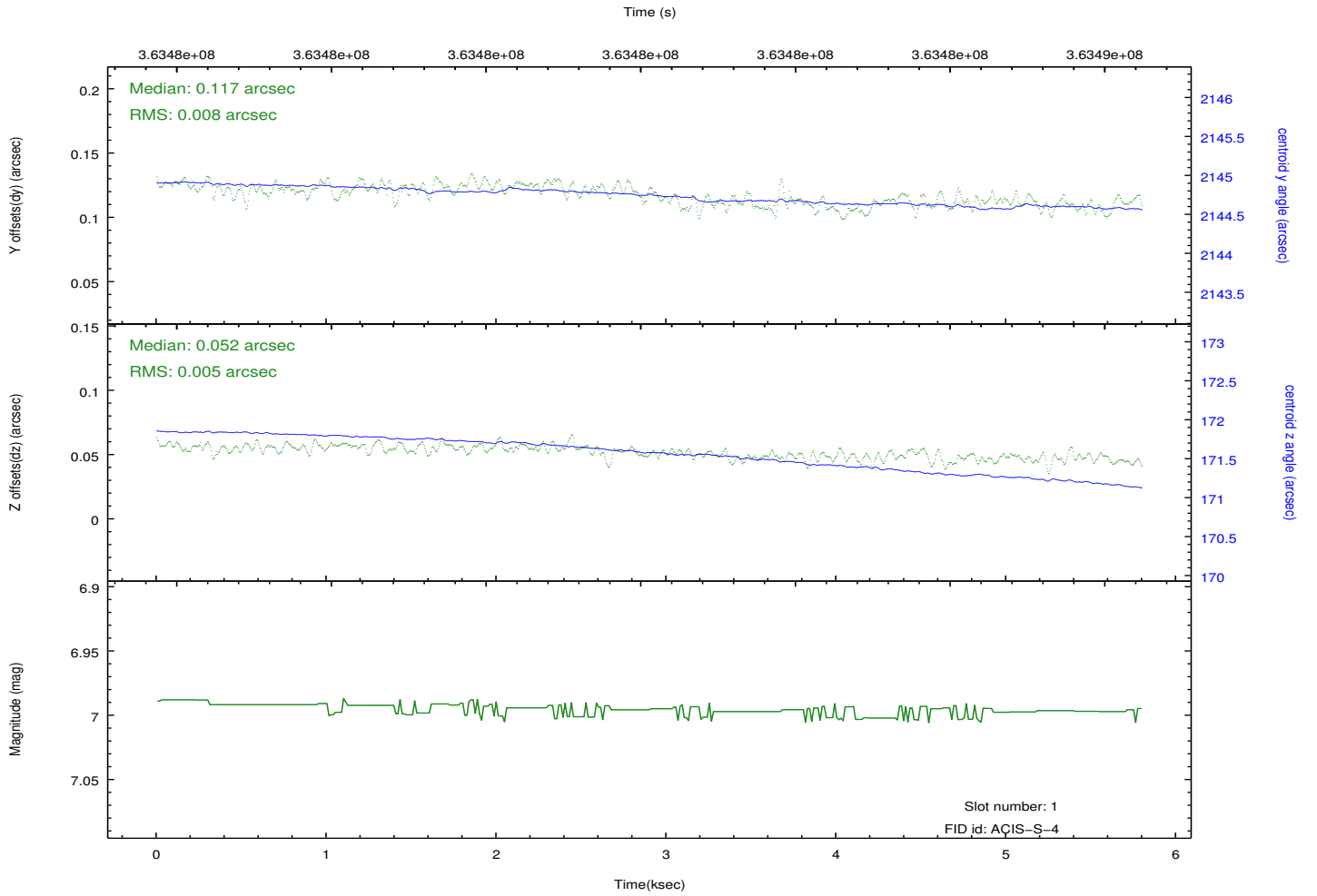
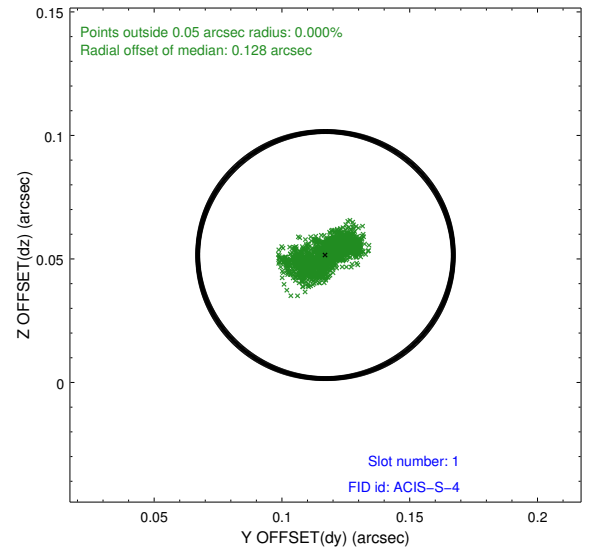
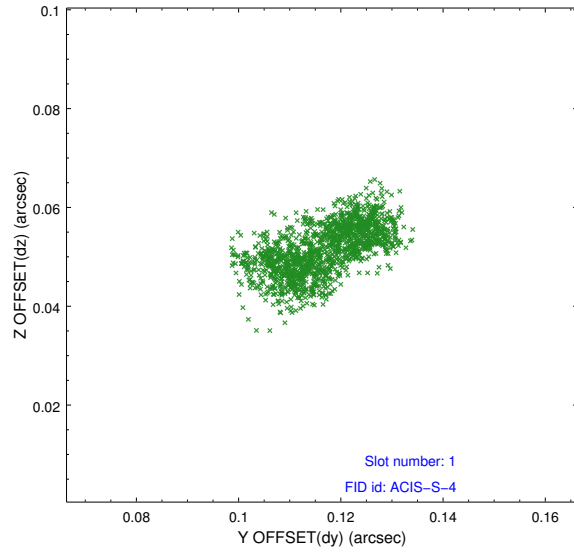


## 2.5 FID Slots

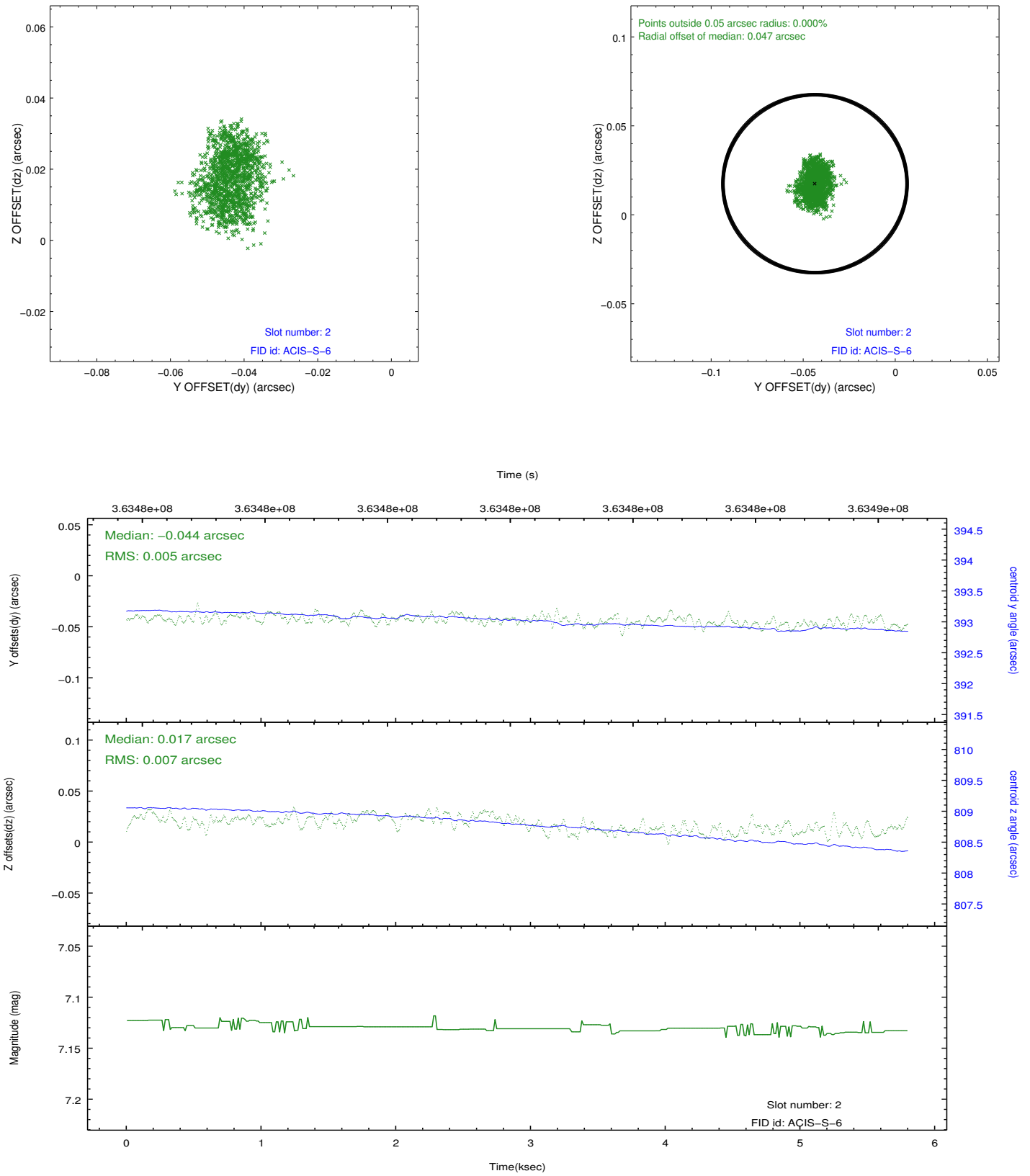
### 2.5.1 Slot 0



## 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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.79390004

### A.2 Comments