

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15025 - L2 Version 2  
Chandra X-Ray Center

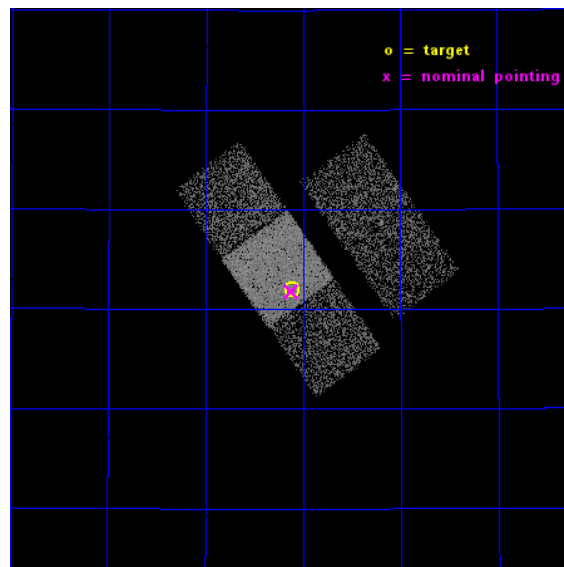
L2 Processing Date : Dec 3 2014

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# 1 Front

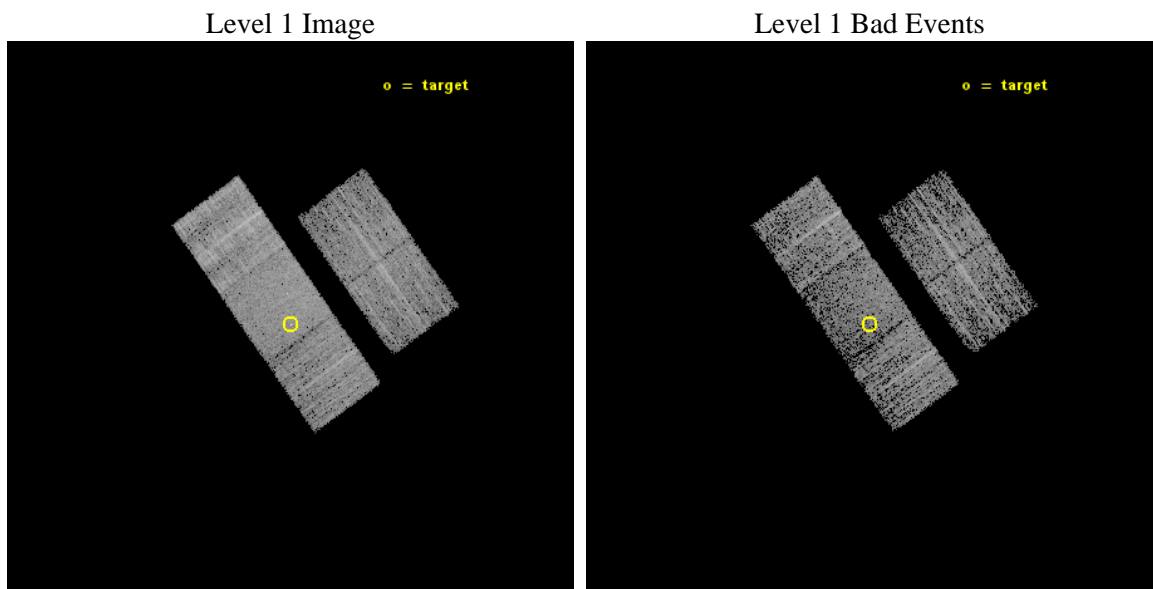
seq_num	702832	Sequence number
obs_id	15025	Observation id
title	Are Double-Peaked Optical Emission Lines Reliable Indicators of Dual AGNs?	Proposal title
observer	Dr. Claire Max	Principal investigator
object	SDSS J115106.69+471157.8	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.777917	Observer's specified target RA [deg]
dec_targ	47.199361	Observer's specified target Dec [deg]
ra_nom	177.77965372251	Nominal RA [deg]
dec_nom	47.196589574931	Nominal Dec [deg]
roll_nom	234.41192825868	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5071.6000390053	Sum of GTIs [s]
livetime	5005.335850838	Livetime [s]
ontime2	5071.6000390053	Sum of GTIs [s]
ontime3	5071.6000390053	Sum of GTIs [s]
ontime6	5071.6000390053	Sum of GTIs [s]
ontime7	5071.6000390053	Sum of GTIs [s]
ontime8	5071.6000390053	Sum of GTIs [s]
l2events	26104	Number of level 2 events



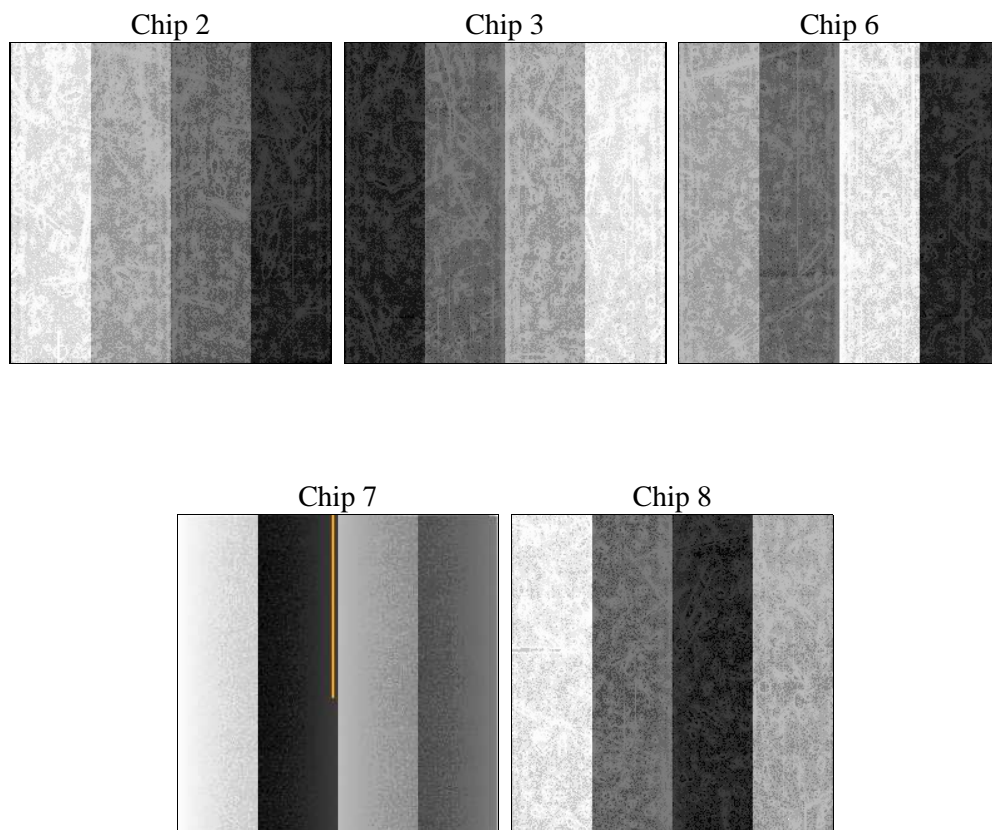
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5071.6000390053	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime2	5071.6000390053	Sum of GTIs [s]
date	2014-12-03T09:25:47	Date and time of file creation	ontime3	5071.6000390053	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5071.6000390053	Sum of GTIs [s]
			ontime7	5071.6000390053	Sum of GTIs [s]
			ontime8	5071.6000390053	Sum of GTIs [s]
			l1events	148715	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	24104	23733	26600	33880	40398
rejected events	20992	20730	23263	18724	25098
rejected %	87%	87%	87%	55%	62%

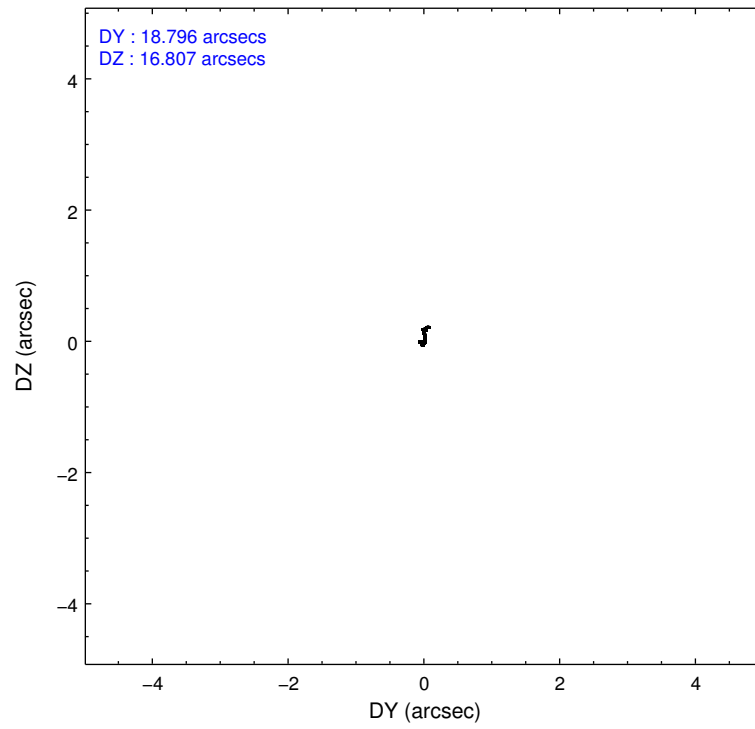
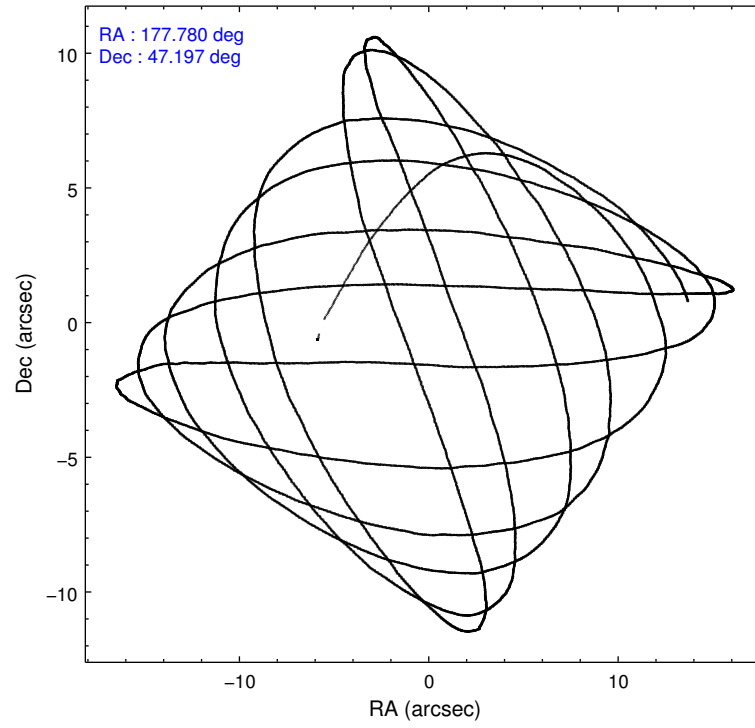
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1167	1153	1231	1521	4870
	4%	4%	4%	4%	12%
grade 1 events	15	15	17	48	39
	0%	0%	0%	0%	0%
grade 2 events	740	647	767	3227	2608
	3%	2%	2%	9%	6%
grade 3 events	315	306	312	1290	2249
	1%	1%	1%	3%	5%
grade 4 events	319	296	303	1285	2169
	1%	1%	1%	3%	5%
grade 5 events	1081	1241	1221	3404	1870
	4%	5%	4%	10%	4%
grade 6 events	574	603	725	7839	3406
	2%	2%	2%	23%	8%
grade 7 events	19893	19472	22024	15266	23187
	82%	82%	82%	45%	57%

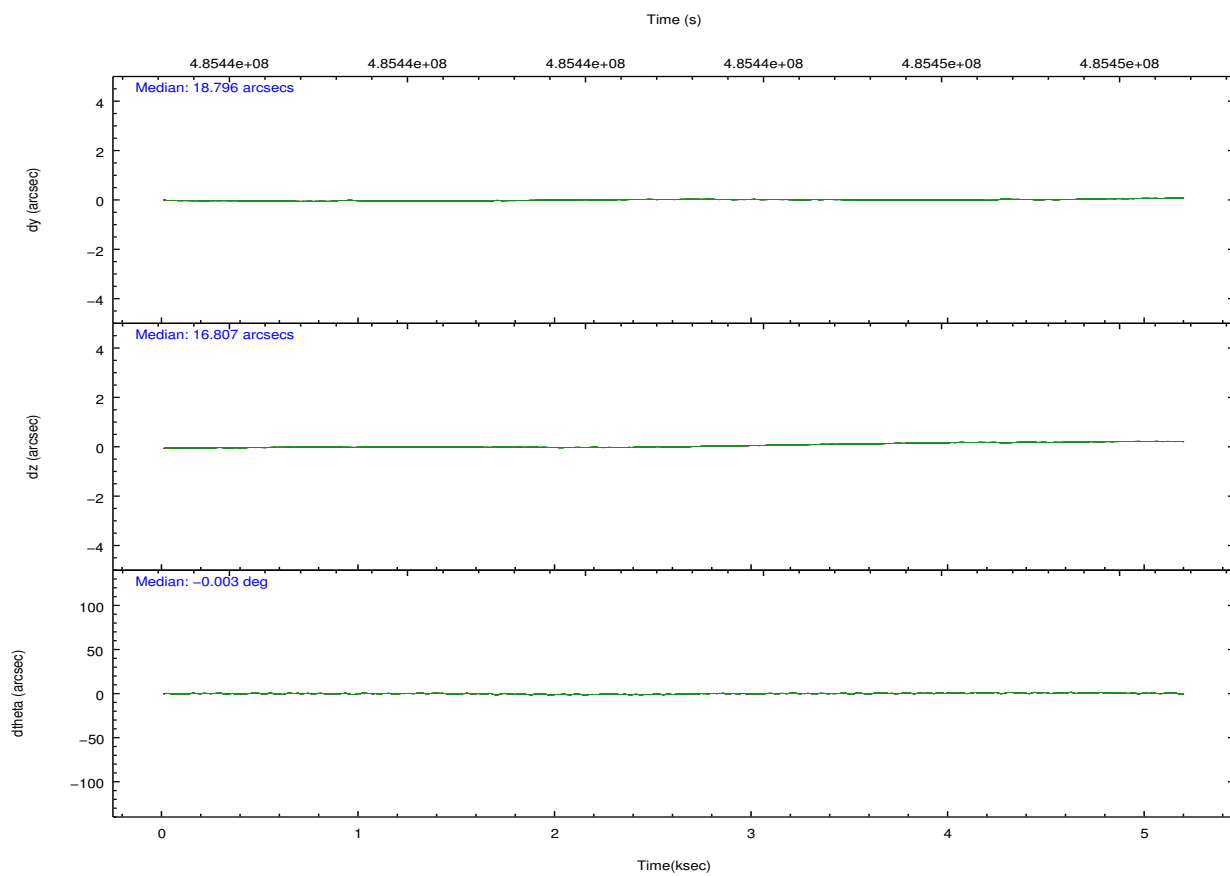
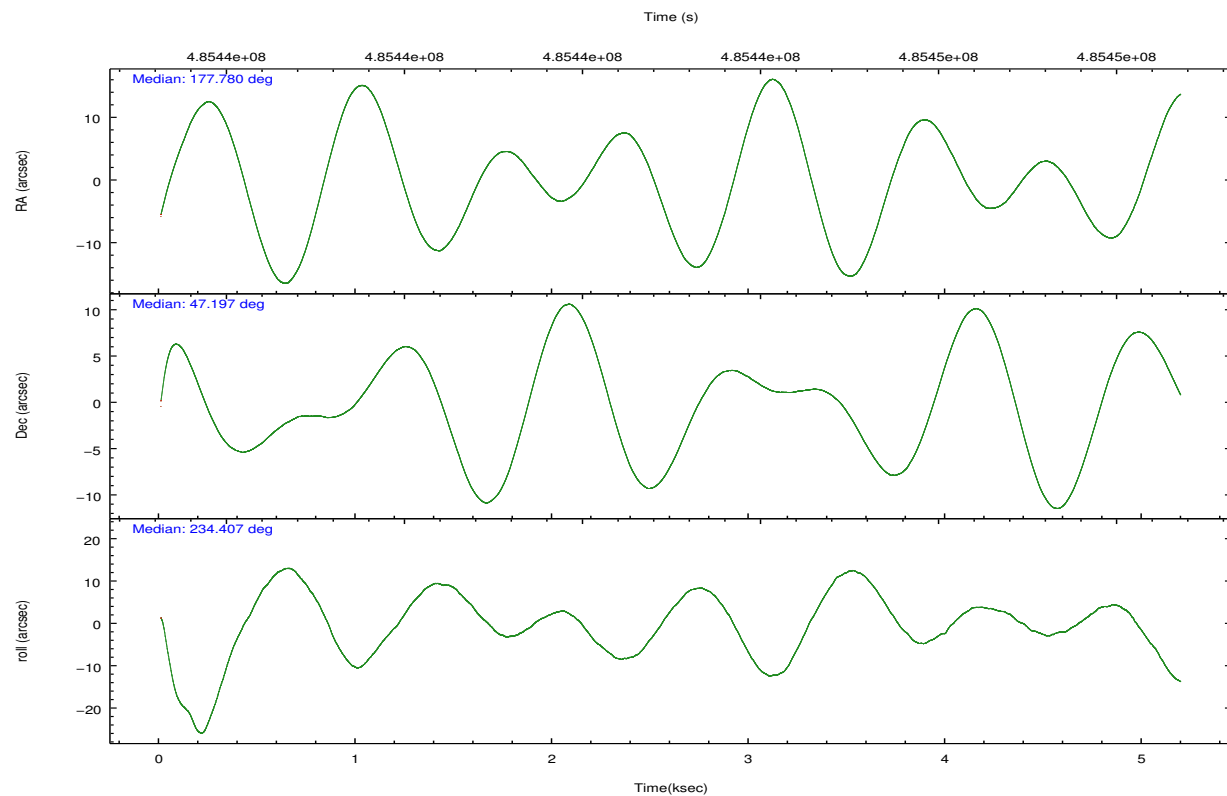


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	177.782947	177.7796537225144	CCD I2 on	O2	Y
[deg] Pointing Dec	47.223804	47.19658957493055	CCD I3 on	O3	Y
[deg] Pointing Roll	234.252837	234.4119282586808	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	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	O1	Y
[s] Observation start time (MET)	485442090.184000	485441045.8806	CCD S5 on	N	N
Observation start date	2013-05-20T13:00:23	2013-05-20T12:44:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	485447090.184000	485447931.83097	On-chip summing requested	N	N
Observation end date	2013-05-20T14:23:43	2013-05-20T14:38:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



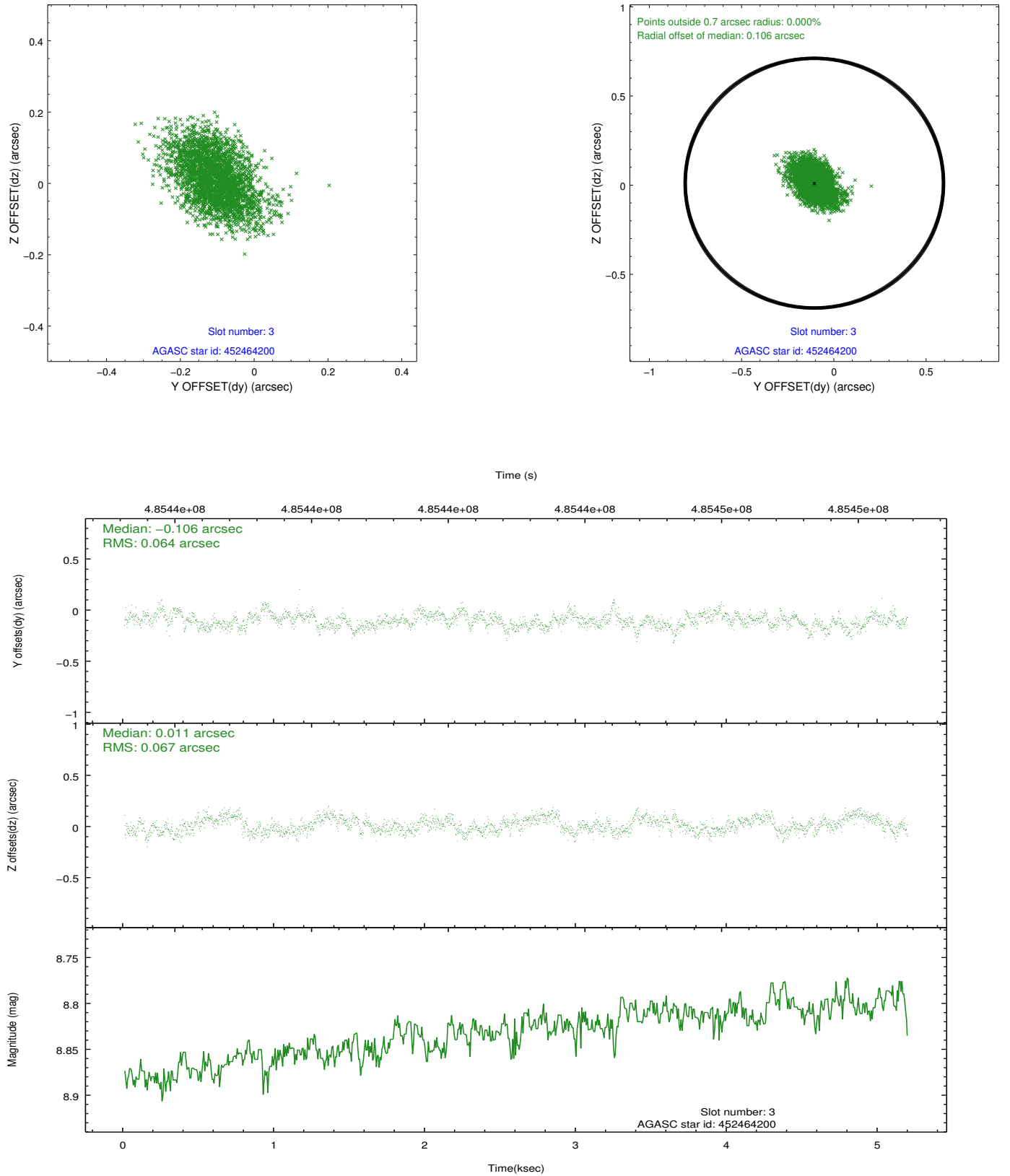


### Slot Statistics

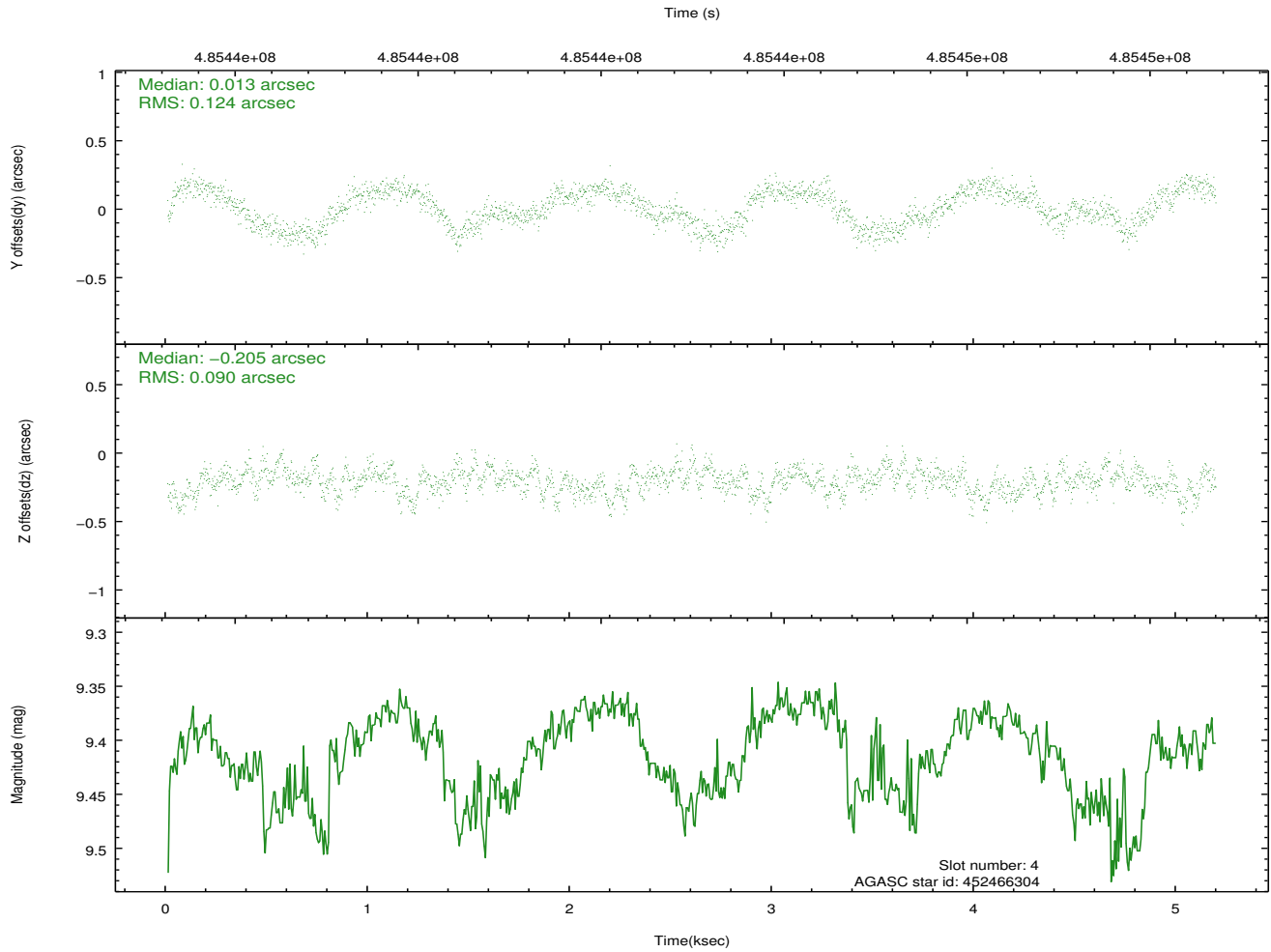
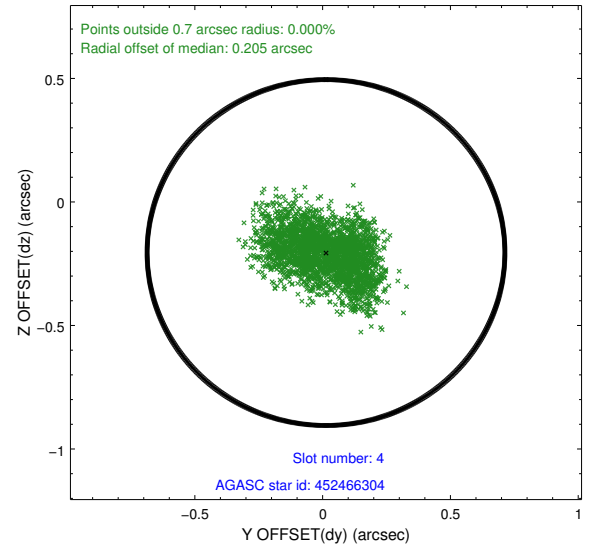
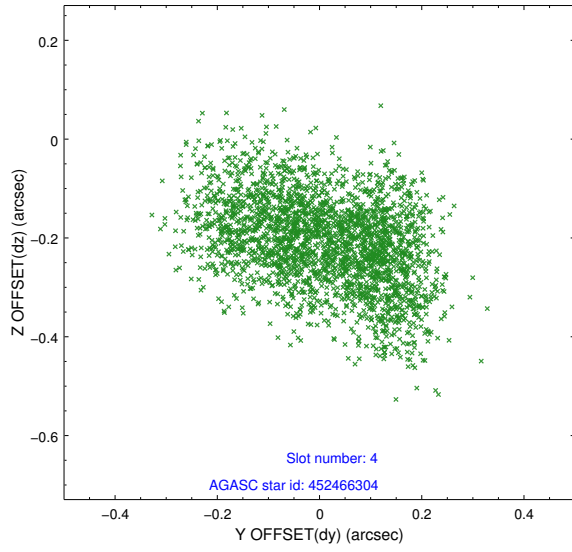
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	1266	-0.107	-0.028	0.007	0.011	0.000000	0.000000	-771.99	-1738.26
1	FID		ACIS-S-4	7.05	1266	0.291	0.060	0.005	0.010	0.000000	0.000000	2141.17	169.07
2	FID		ACIS-S-5	7.08	1266	-0.215	-0.022	0.007	0.012	0.000000	0.000000	-1823.43	164.03
3	GUIDE	used	452464200	8.83	2531	-0.106	0.011	0.098	0.163	178.908479	47.257396	-1720.43	2150.32
4	GUIDE	used	452466304	9.41	2520	0.013	-0.205	0.169	0.257	177.805470	47.057557	453.13	395.48
5	GUIDE	used	452468752	9.06	2530	0.015	0.055	0.092	0.152	178.498041	47.489261	-1797.42	849.06
6	GUIDE	used	452468840	9.70	2530	0.052	0.331	0.260	0.385	177.880285	47.497730	-938.61	-383.40
7	GUIDE	used	452469280	8.58	2528	0.017	-0.189	0.095	0.146	178.189789	47.546410	-1520.88	122.42

## 2.4 Star Slots

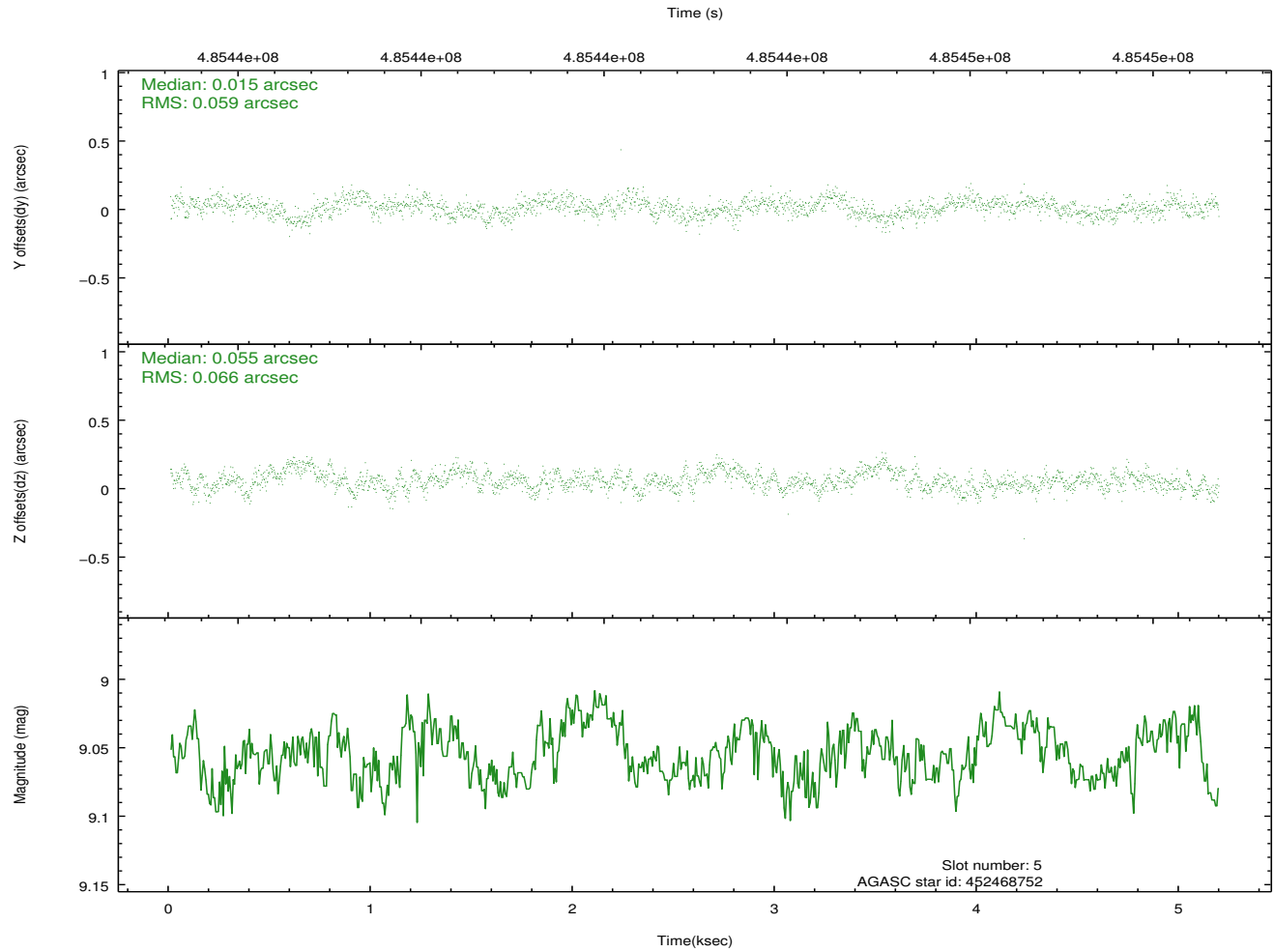
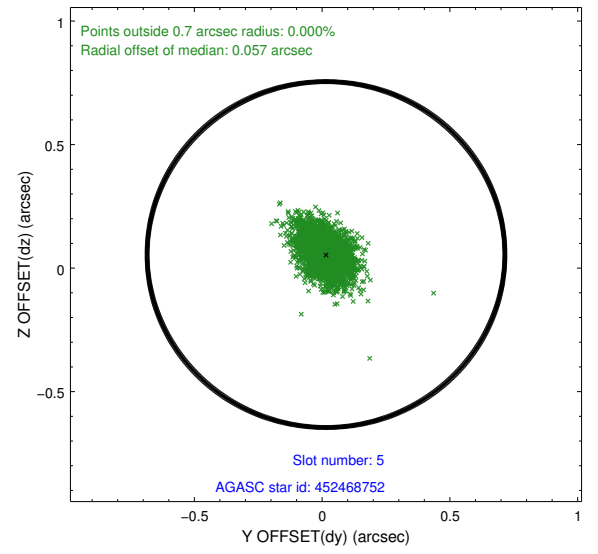
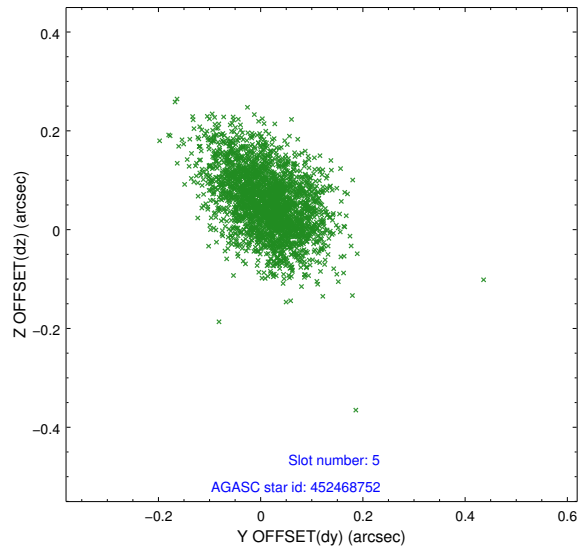
### 2.4.1 Slot 3



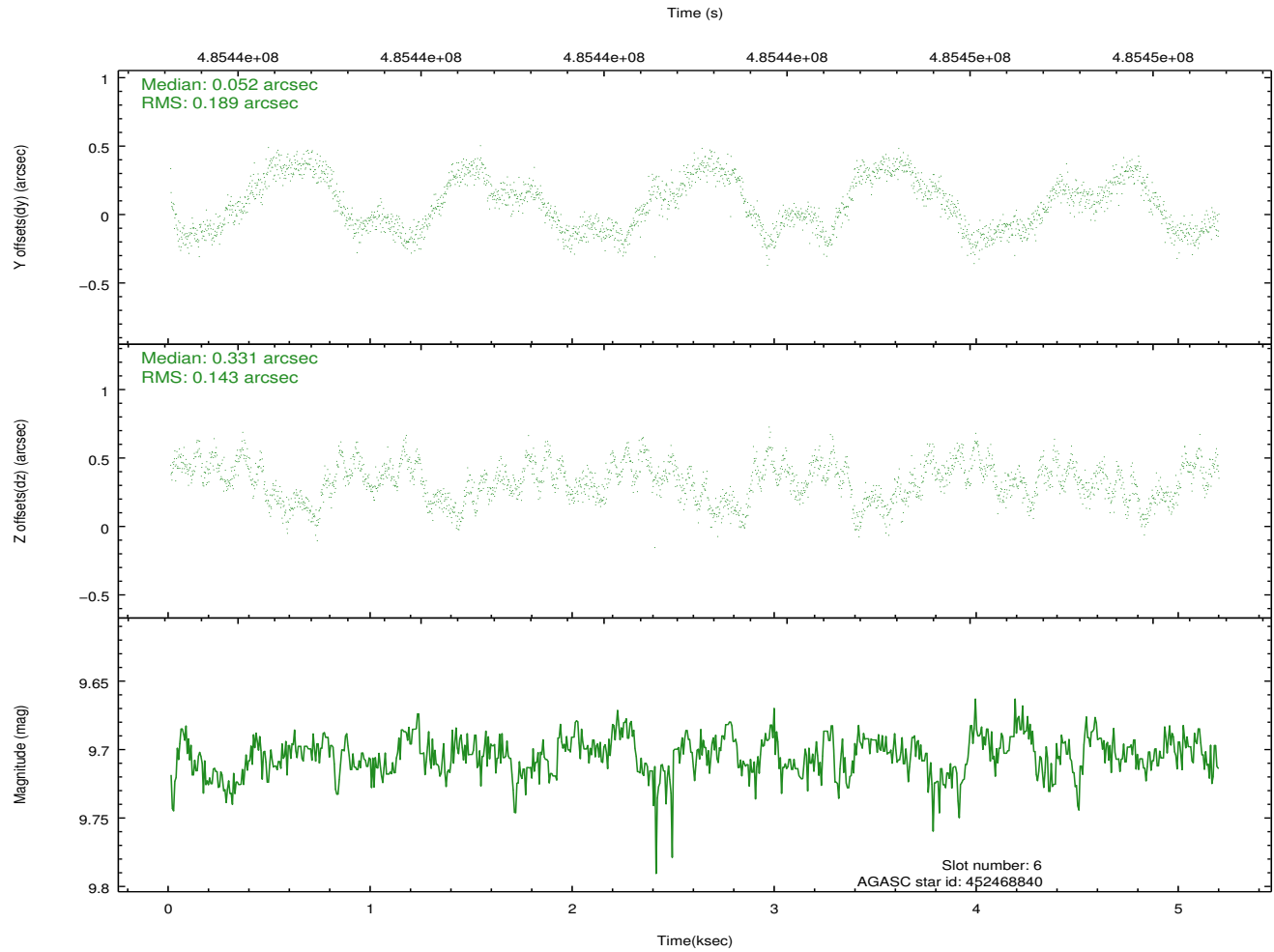
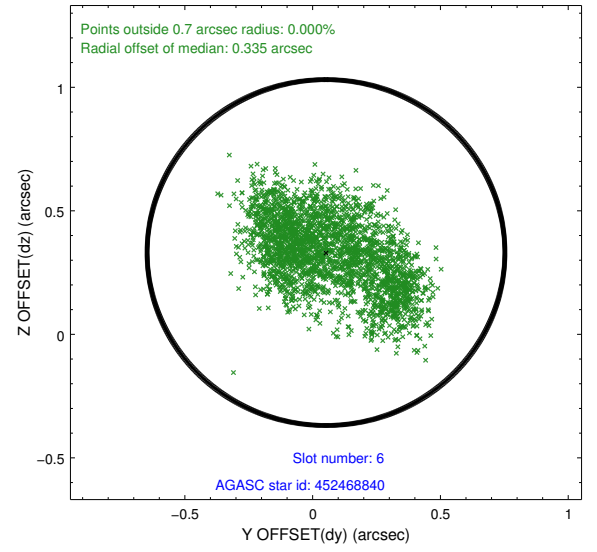
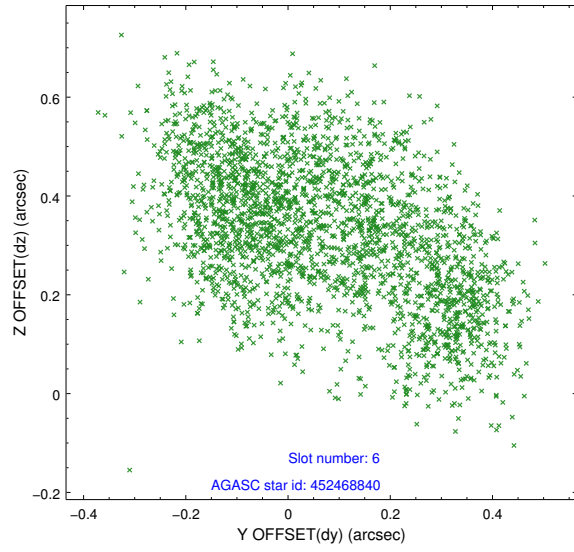
## 2.4.2 Slot 4



### 2.4.3 Slot 5

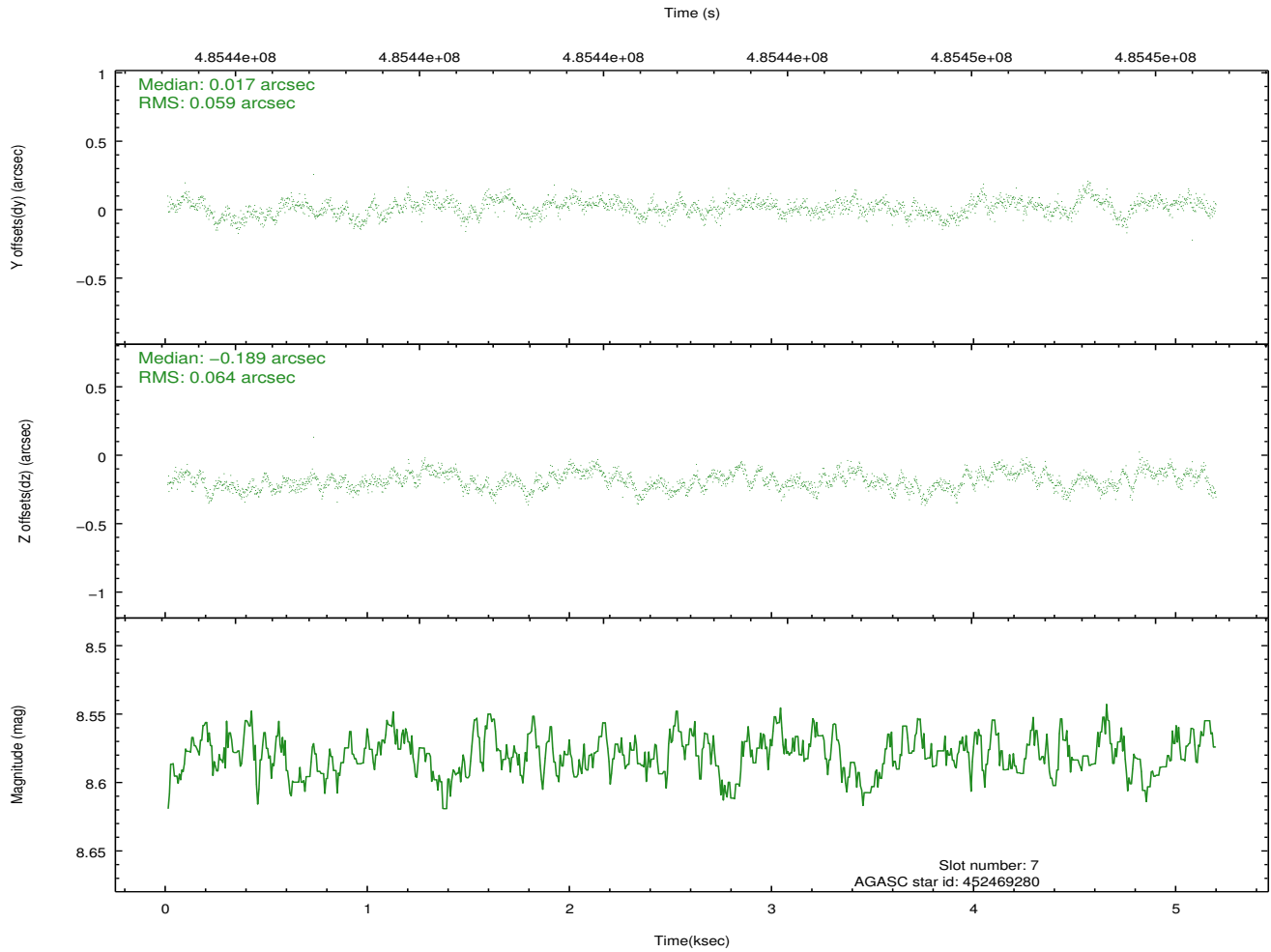
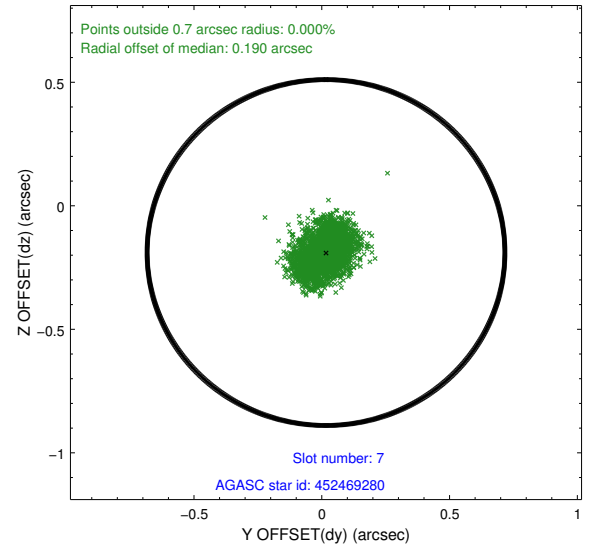
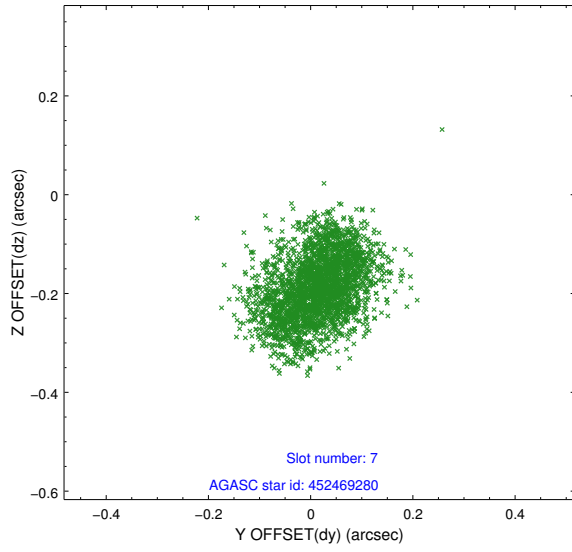


## 2.4.4 Slot 6



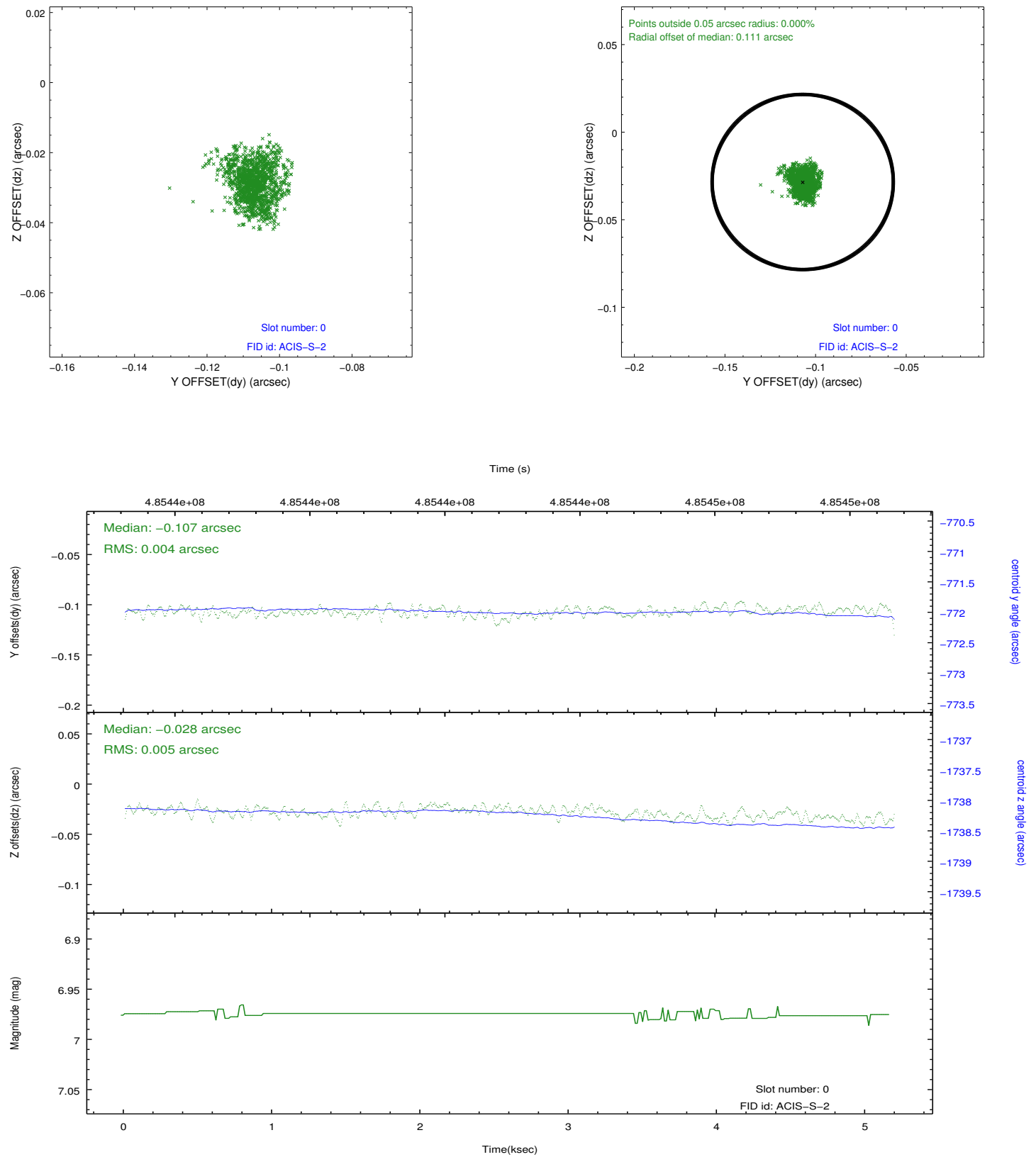


## 2.4.5 Slot 7

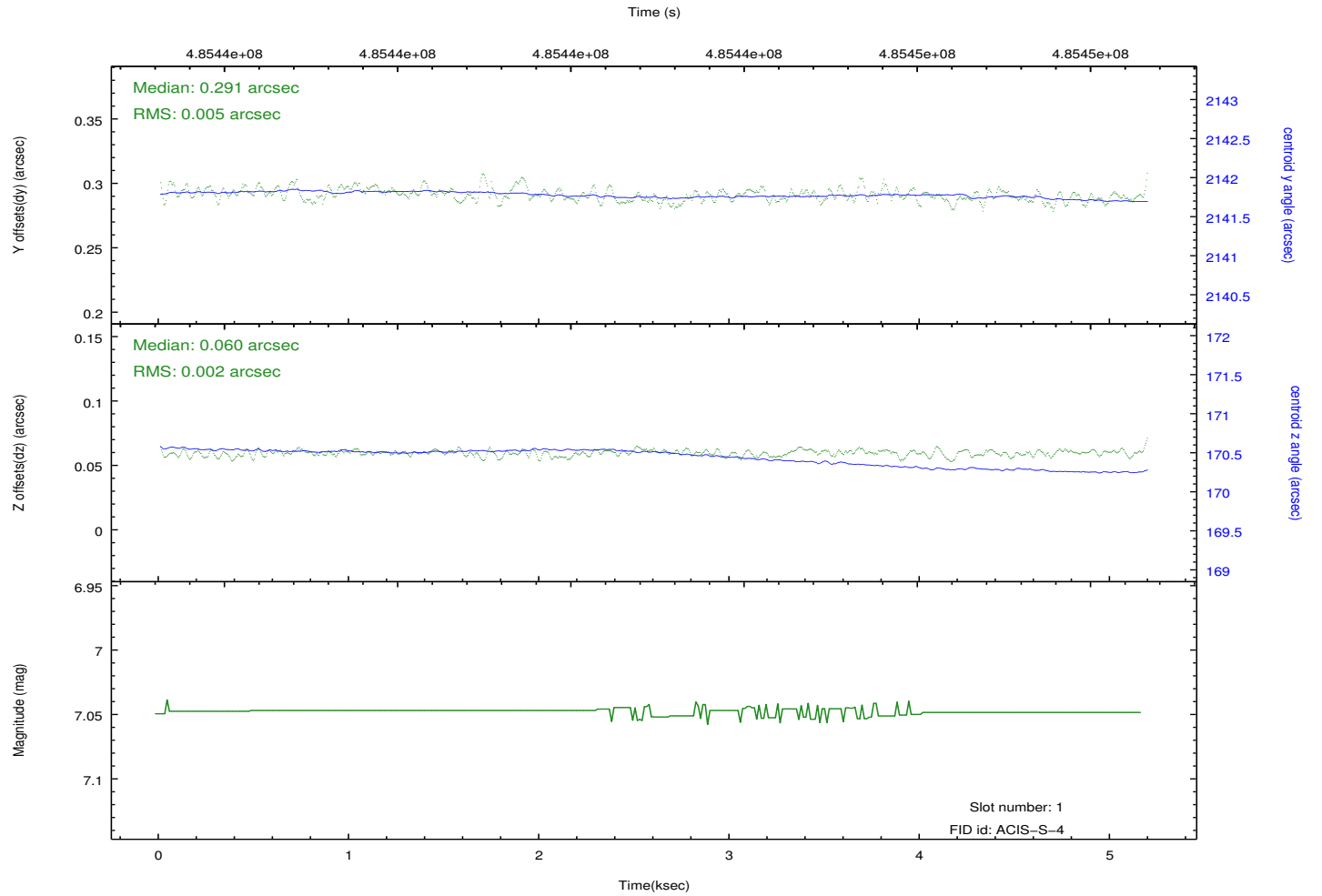
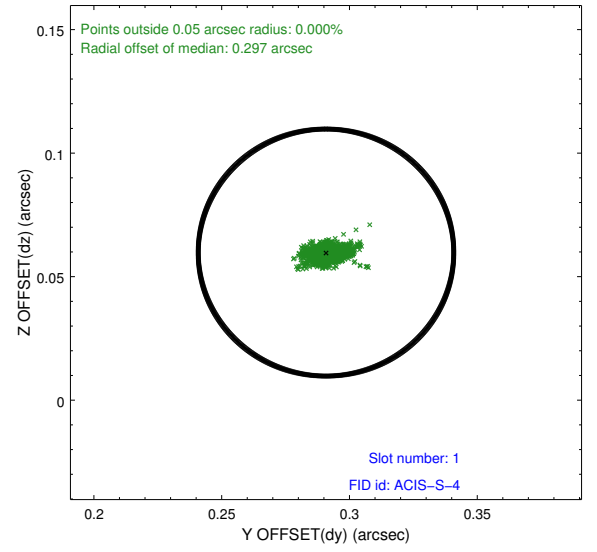
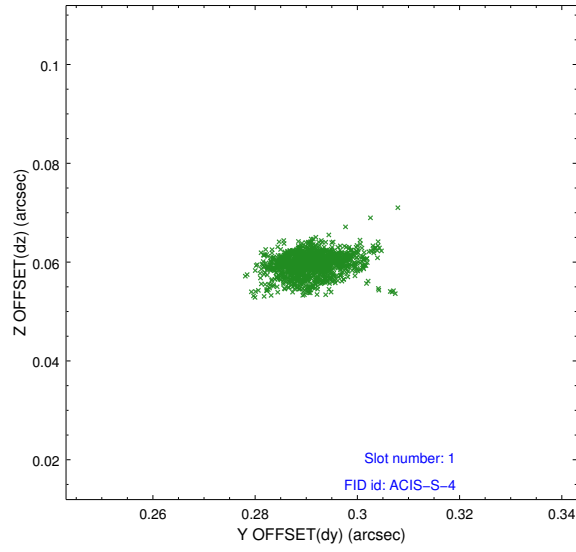


## 2.5 FID Slots

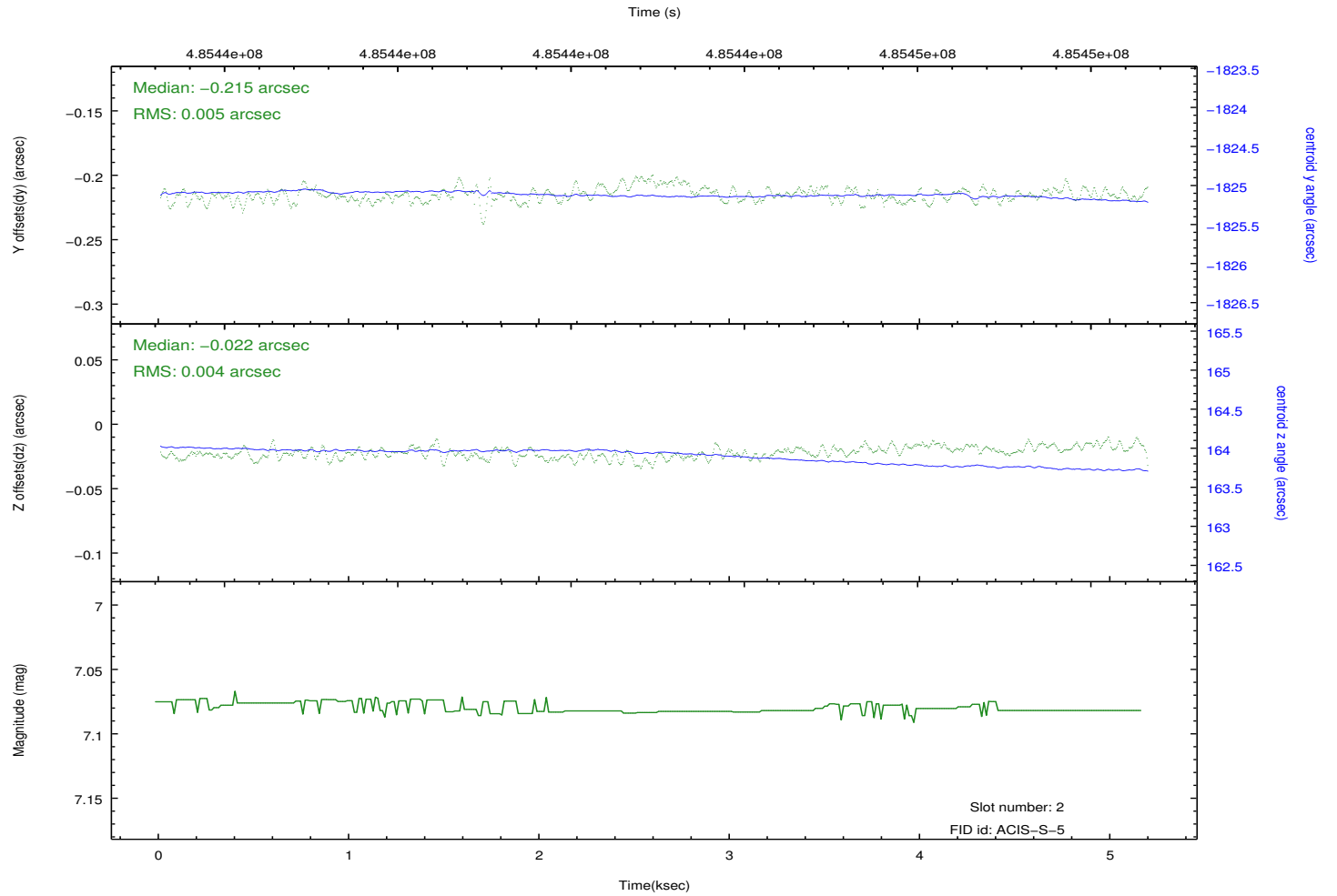
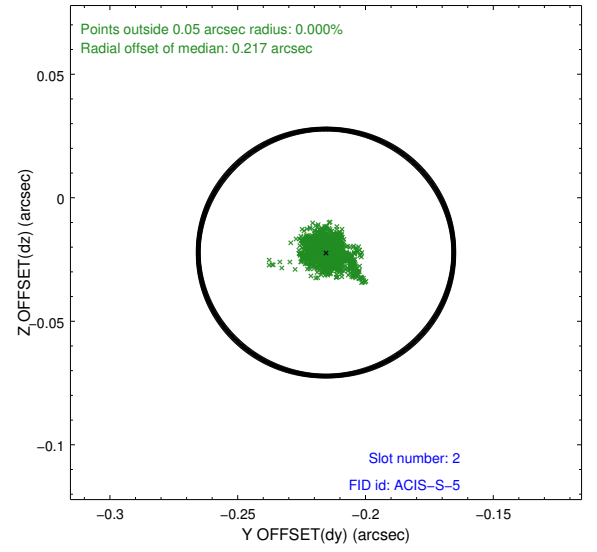
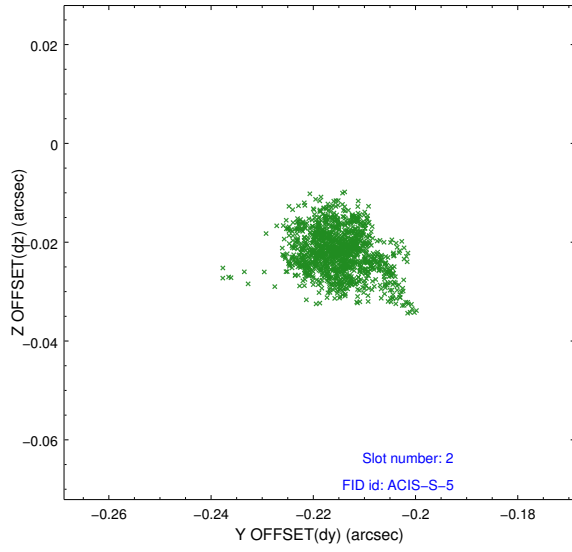
### 2.5.1 Slot 0



## 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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0716000390053

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.