

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 228 - L2 Version 4  
Chandra X-Ray Center

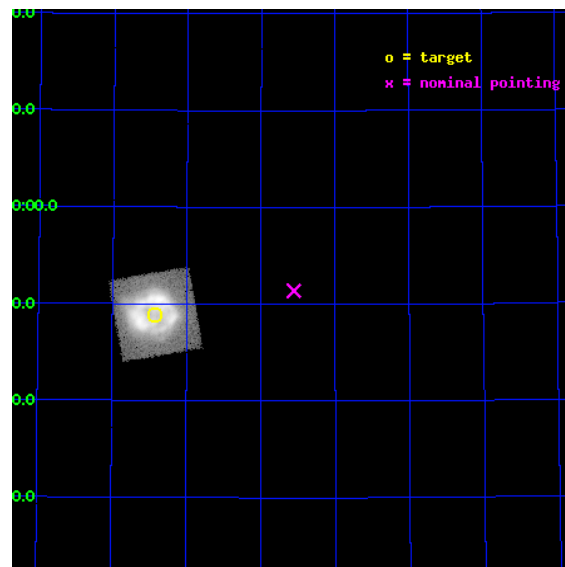
L2 Processing Date : Aug 23 2012

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# 1 Front

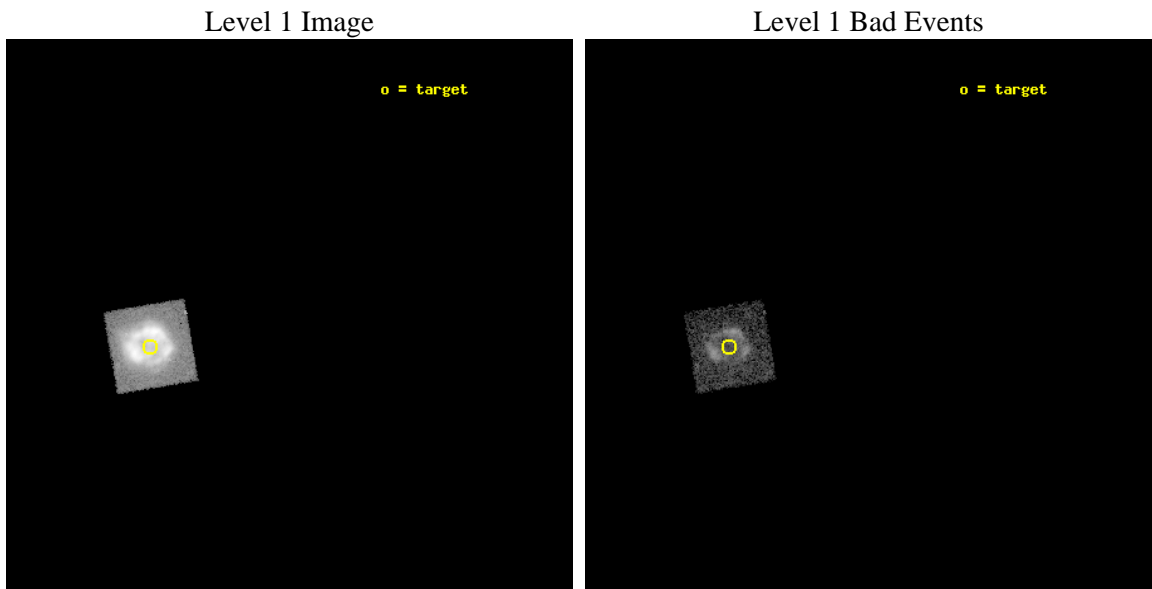
seq_num	590096	Sequence number
obs_id	228	Observation id
title	ACIS CHIP RESPONSE TO CAS A, APR. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S1, T=120, Offsets=15,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.38892359513	Nominal RA [deg]
dec_nom	58.856478556976	Nominal Dec [deg]
roll_nom	350.19048501691	Nominal Roll [deg]
revision	4	Processing version of data
ontime	966.96797132492	Sum of GTIs [s]
livetime	954.72364063379	Livetime [s]
ontime4	1151.6609363556	Sum of GTIs [s]
ontime5	966.96797132492	Sum of GTIs [s]
ontime6	1345.9951803684	Sum of GTIs [s]
ontime7	1346.20038037	Sum of GTIs [s]
ontime8	1326.6314990371	Sum of GTIs [s]
ontime9	1290.9401359558	Sum of GTIs [s]
l2events	235192	Number of level 2 events



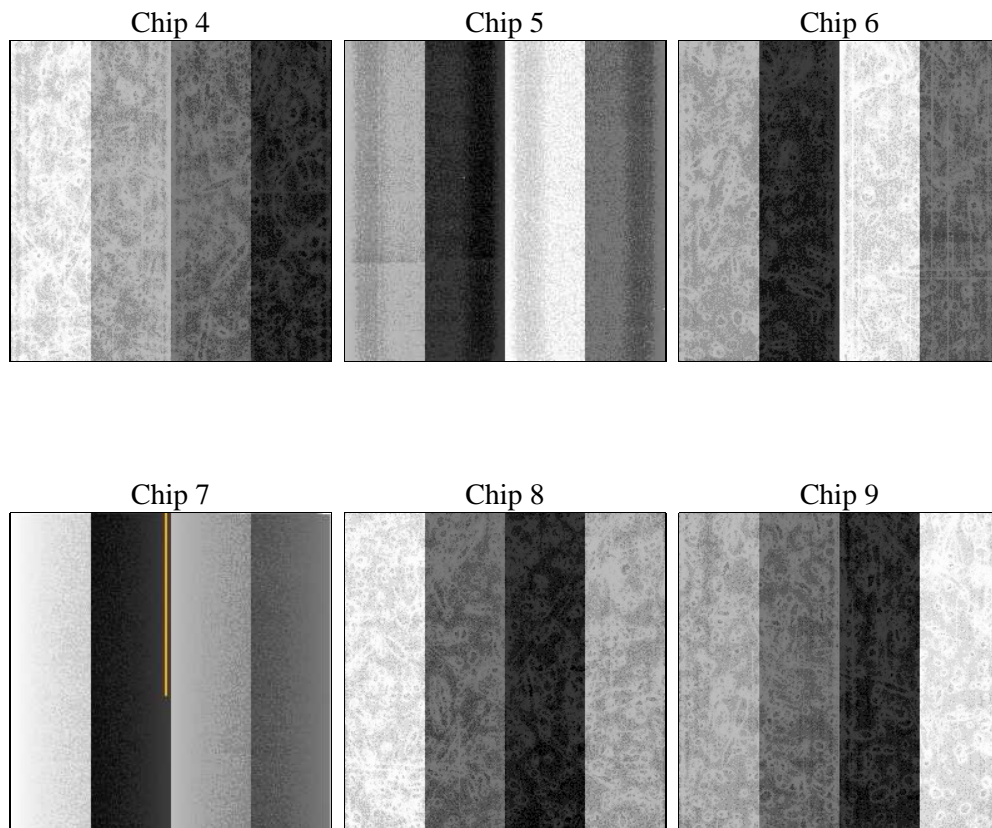
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	966.96797132492	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	1151.6609363556	Sum of GTIs [s]
date	2012-08-23T19:23:23	Date and time of file creation	ontime5	966.96797132492	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	1345.9951803684	Sum of GTIs [s]
			ontime7	1346.20038037	Sum of GTIs [s]
			ontime8	1326.6314990371	Sum of GTIs [s]
			ontime9	1290.9401359558	Sum of GTIs [s]
			l1events	271256	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	271256	0	0	0	0
rejected events	0	31580	0	0	0	0
rejected %	0%	11%	0%	0%	0%	0%

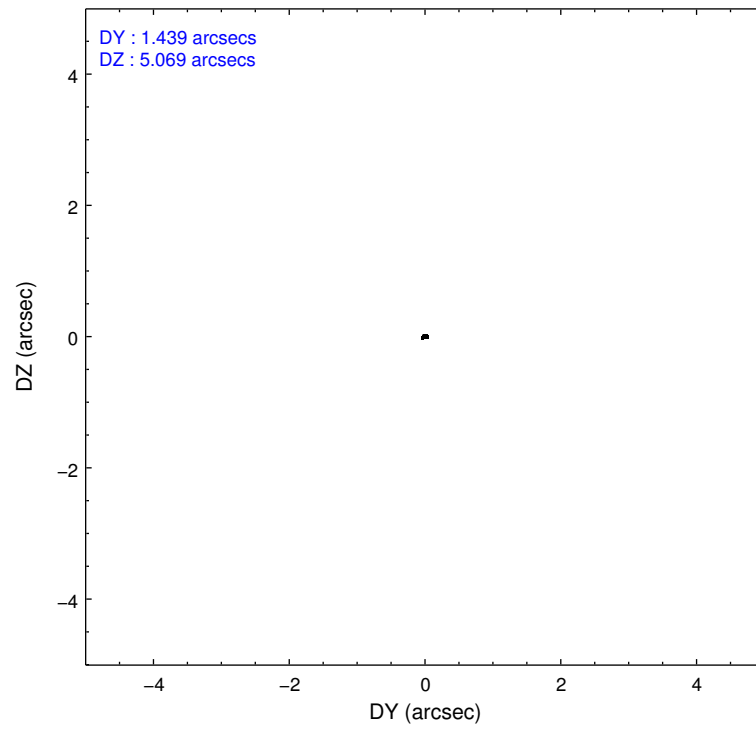
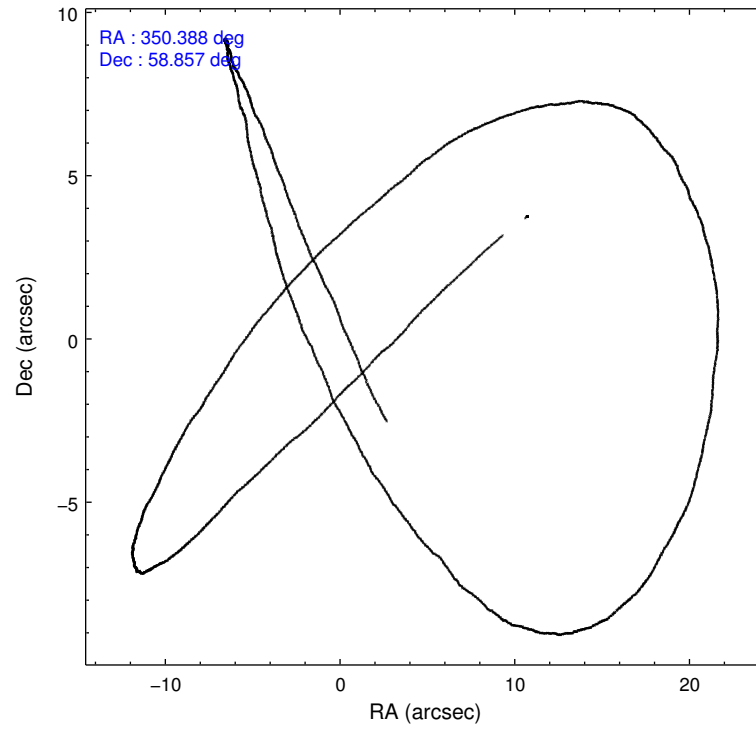
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	81383	0	0	0	0
	0%	30%	0%	0%	0%	0%
grade 1 events	0	1060	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	72614	0	0	0	0
	0%	26%	0%	0%	0%	0%
grade 3 events	0	22567	0	0	0	0
	0%	8%	0%	0%	0%	0%
grade 4 events	0	22643	0	0	0	0
	0%	8%	0%	0%	0%	0%
grade 5 events	0	4440	0	0	0	0
	0%	1%	0%	0%	0%	0%
grade 6 events	0	42125	0	0	0	0
	0%	15%	0%	0%	0%	0%
grade 7 events	0	24424	0	0	0	0
	0%	9%	0%	0%	0%	0%

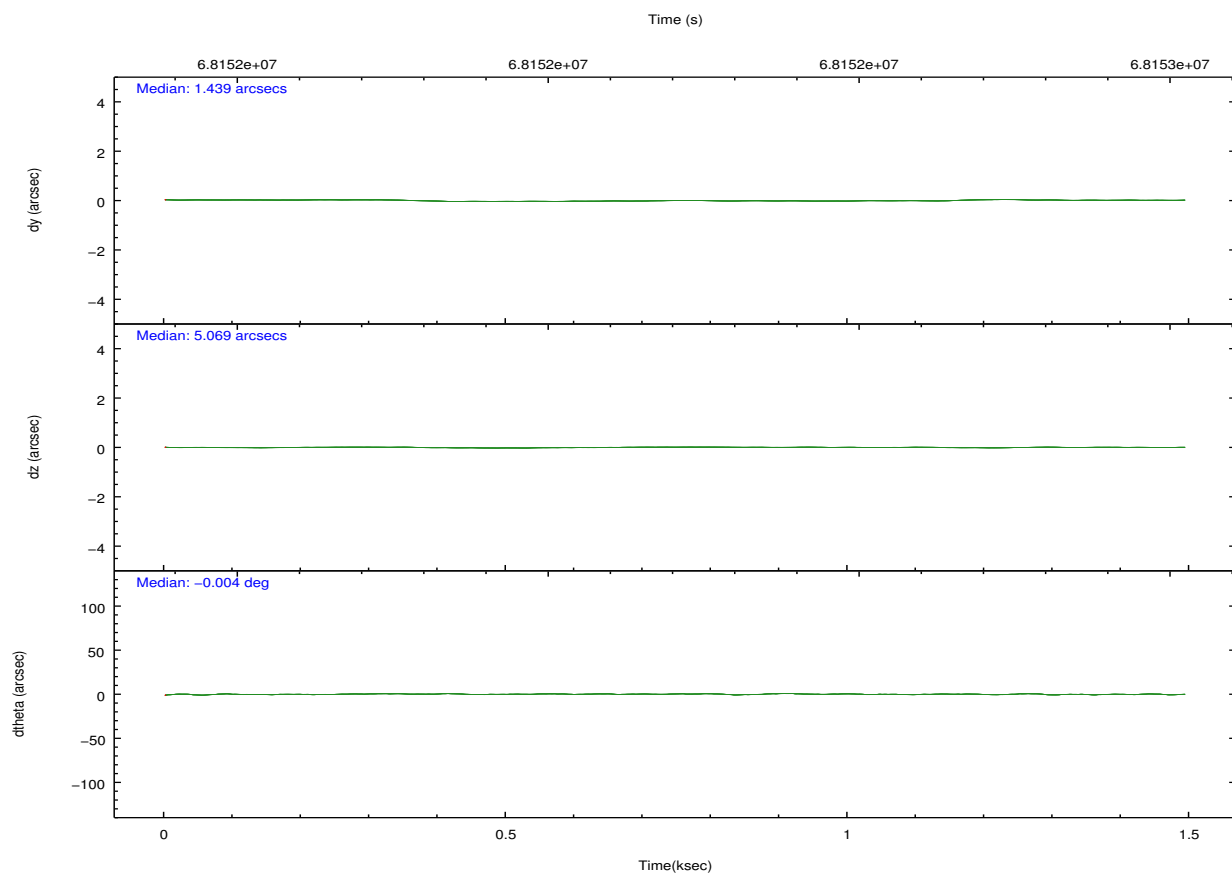
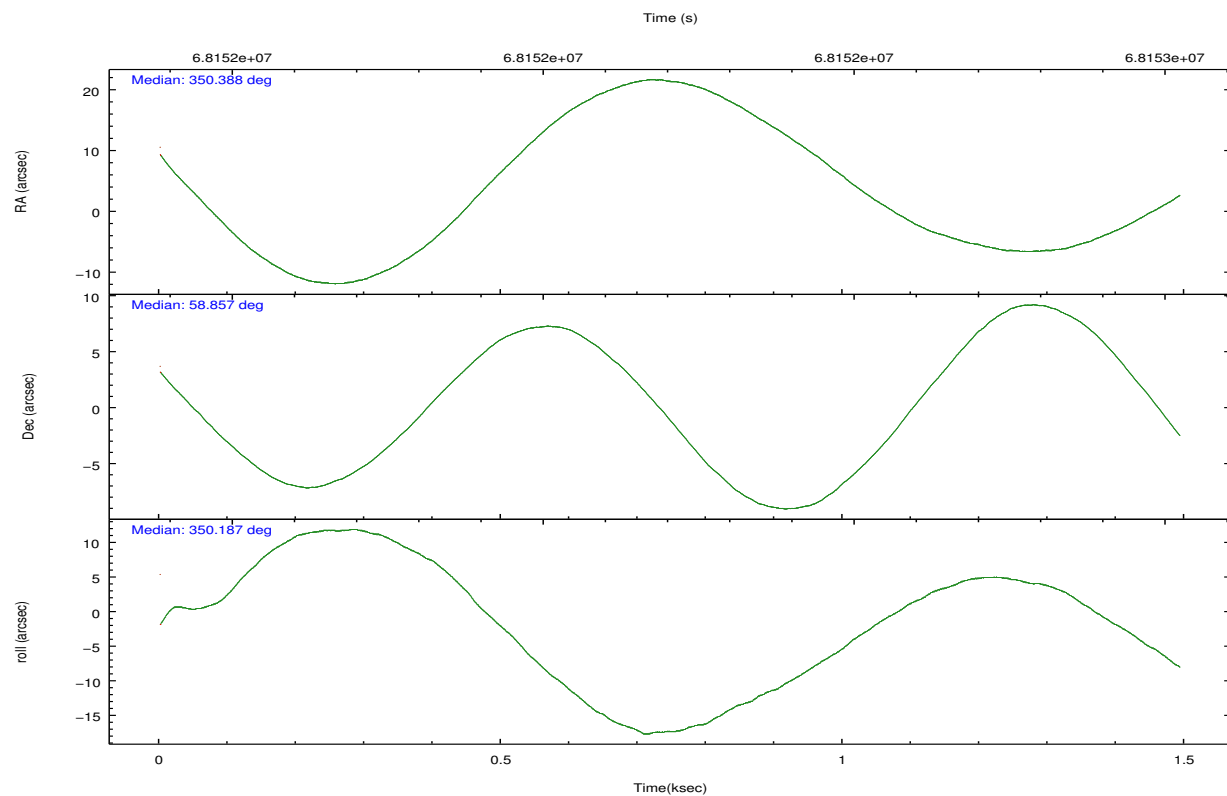
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	350.339913	350.3889235951311
[deg] Pointing Dec	58.846853	58.85647855697555
[deg] Pointing Roll	350.075759	350.1904850169119
[s] Window start time (MET)	65750464.184000	65750464.184000
[s] Window stop time (MET)	68256064.184000	68256064.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	68151950.184000	68151284.17410401
Observation start date	2000-02-28T19:04:46	2000-02-28T18:54:44
[s] Observation end time (MET)	68152950.184000	68153084.586669
Observation end date	2000-02-28T19:21:26	2000-02-28T19:24:44
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





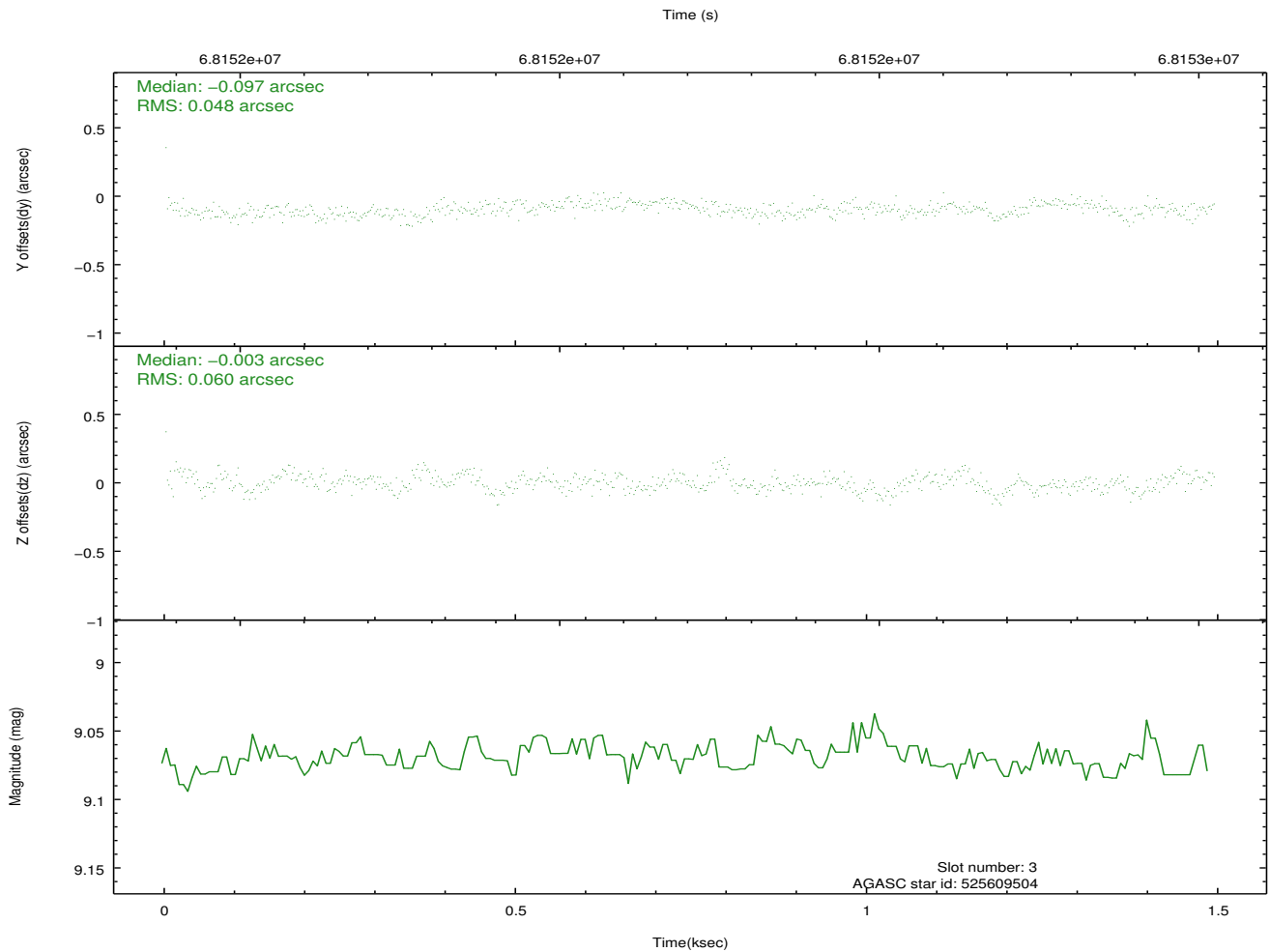
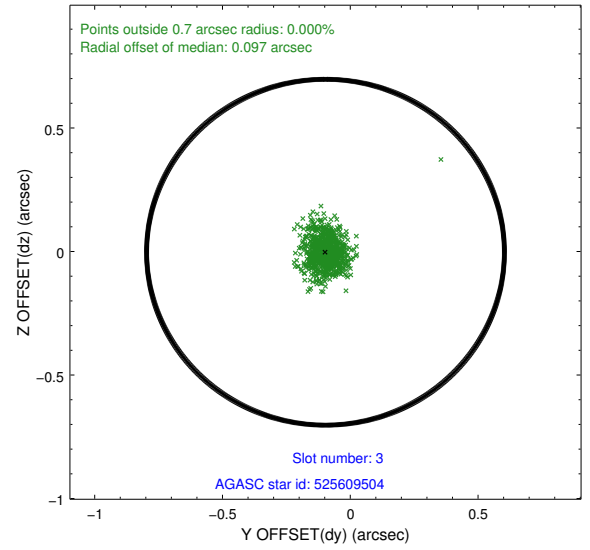
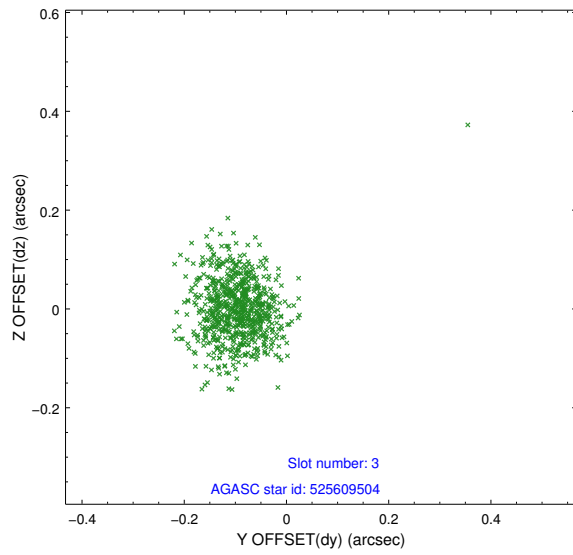
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	365	-0.032	-0.010	0.007	0.011	0.000000	0.000000	-754.08	-1726.13
1	FID	ACIS-S-4	7.21	365	0.011	0.018	0.005	0.010	0.000000	0.000000	2157.25	177.80
2	FID	ACIS-S-5	7.23	365	-0.009	0.000	0.006	0.010	0.000000	0.000000	-1801.18	176.50
3	GUIDE	525609504	9.07	729	-0.097	-0.003	0.078	0.128	349.896632	58.356658	-519.71	-1880.38
4	GUIDE	525606576	9.44	729	0.048	-0.027	0.161	0.240	349.543555	58.678895	-1364.61	-846.93
5	GUIDE	525734296	9.50	729	0.052	-0.043	0.109	0.172	351.276372	58.418153	2002.56	-1205.38
6	GUIDE	525601208	9.22	729	-0.077	0.013	0.094	0.152	349.910779	59.483724	-1164.53	2123.53
7	GUIDE	525737880	9.75	728	0.061	0.068	0.099	0.160	351.070641	59.208299	1100.64	1523.67

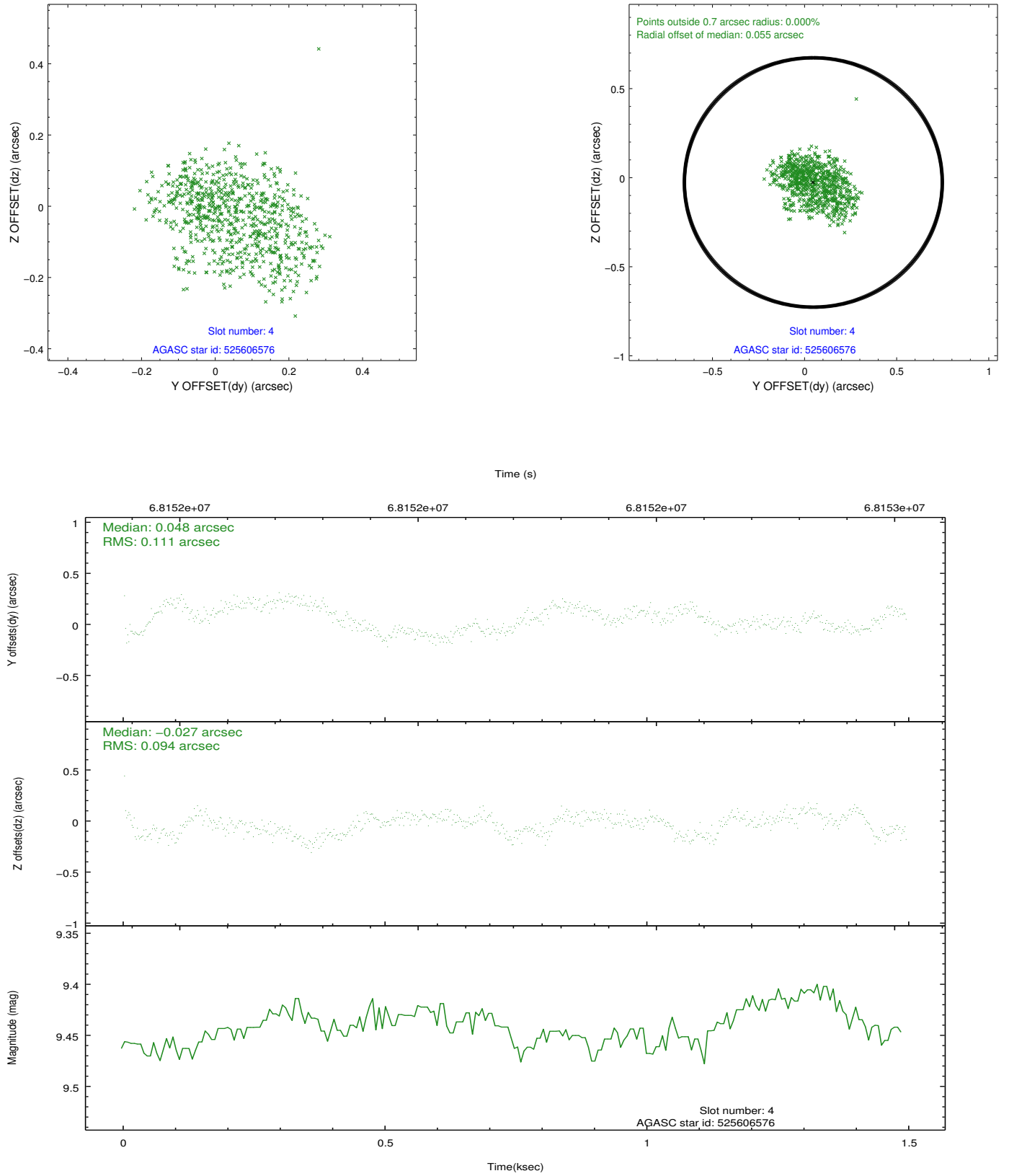


## 2.4 Star Slots

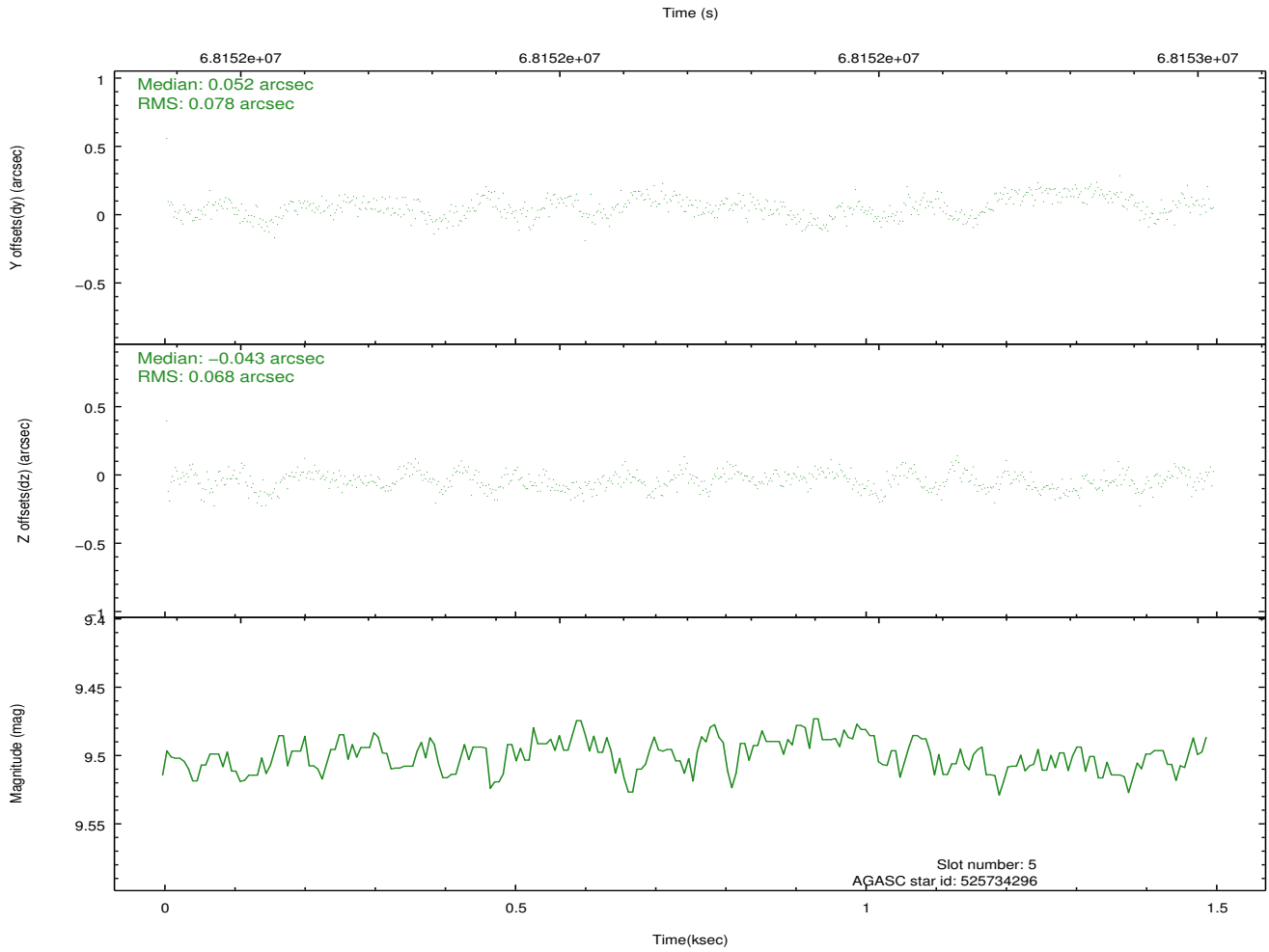
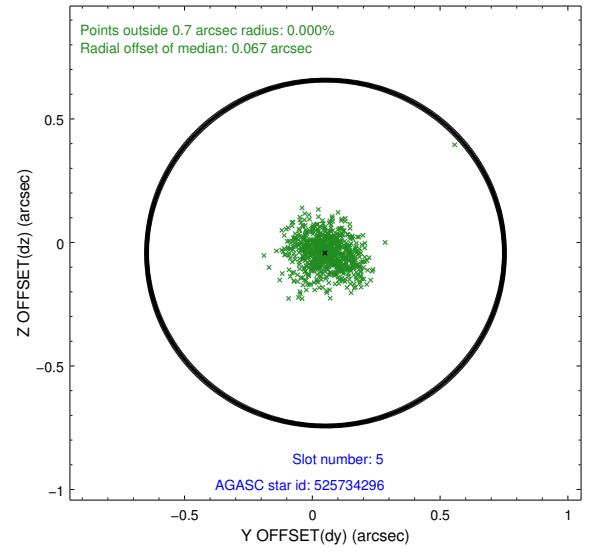
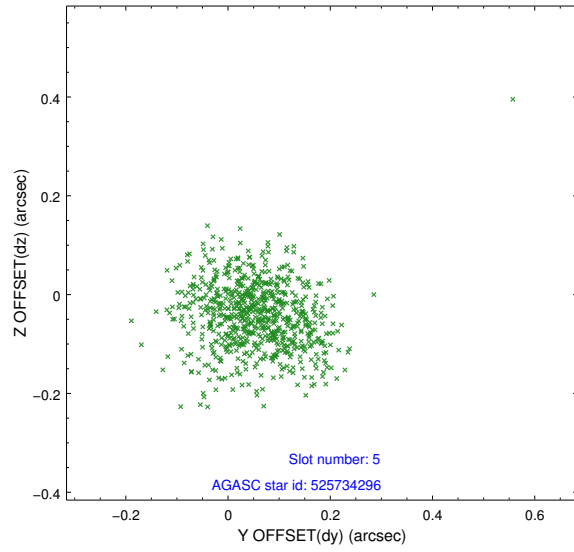
### 2.4.1 Slot 3



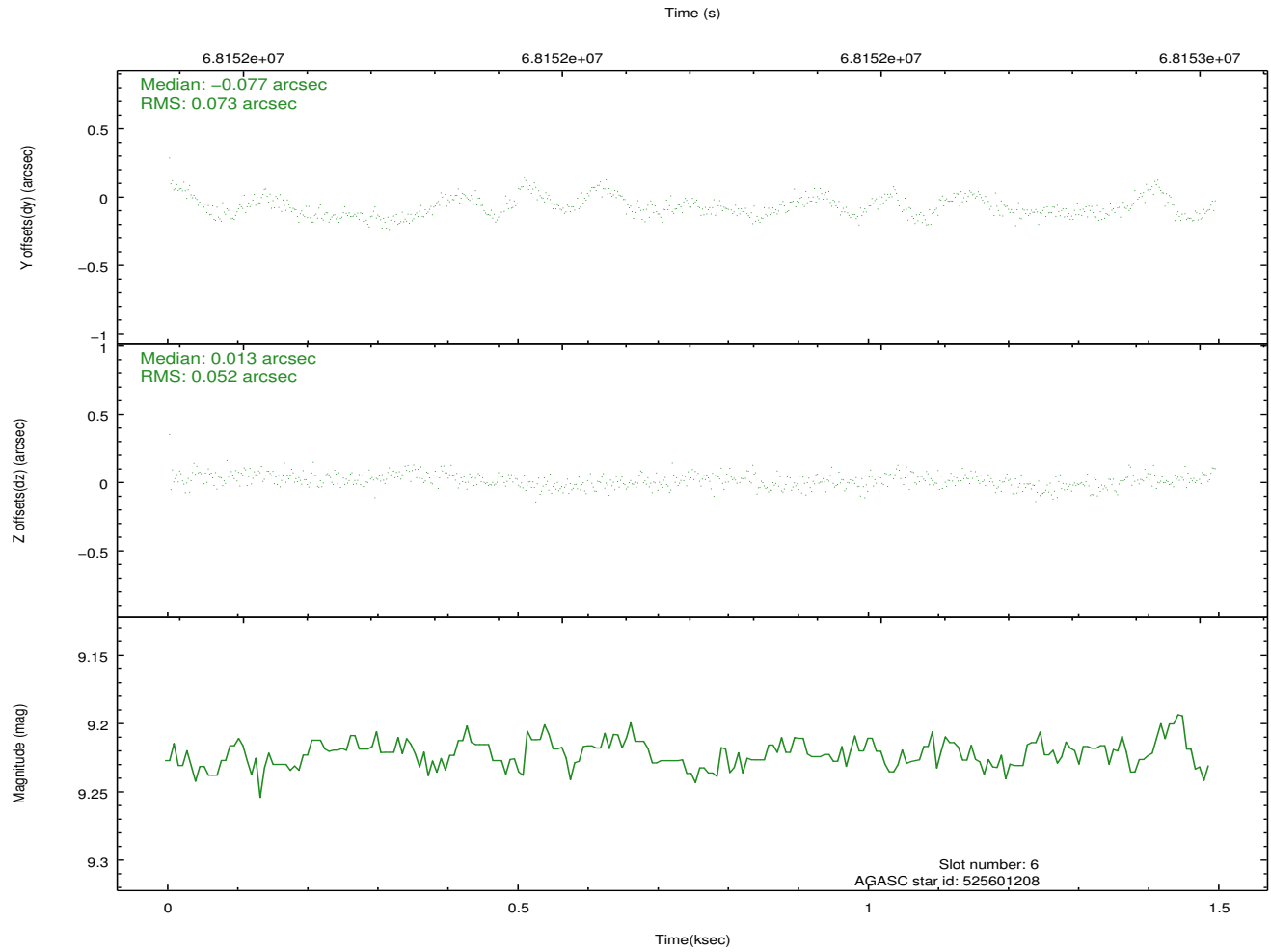
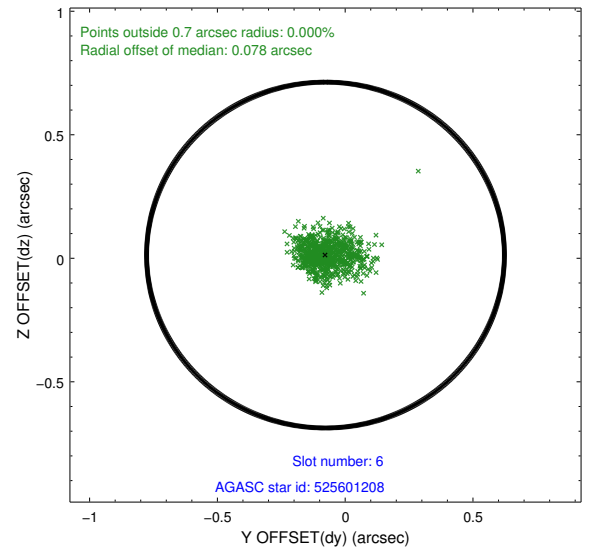
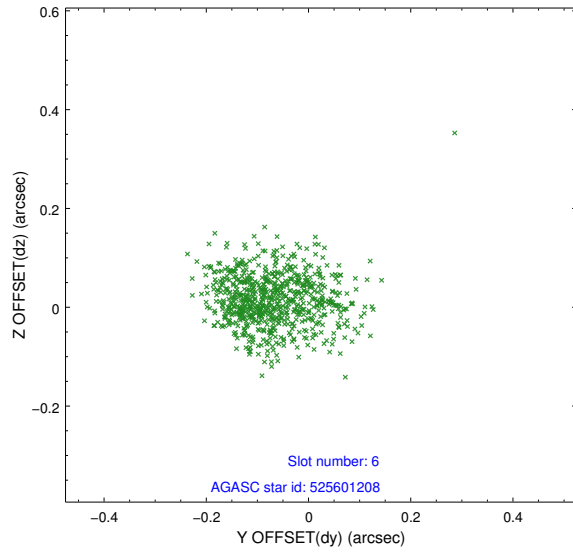
## 2.4.2 Slot 4



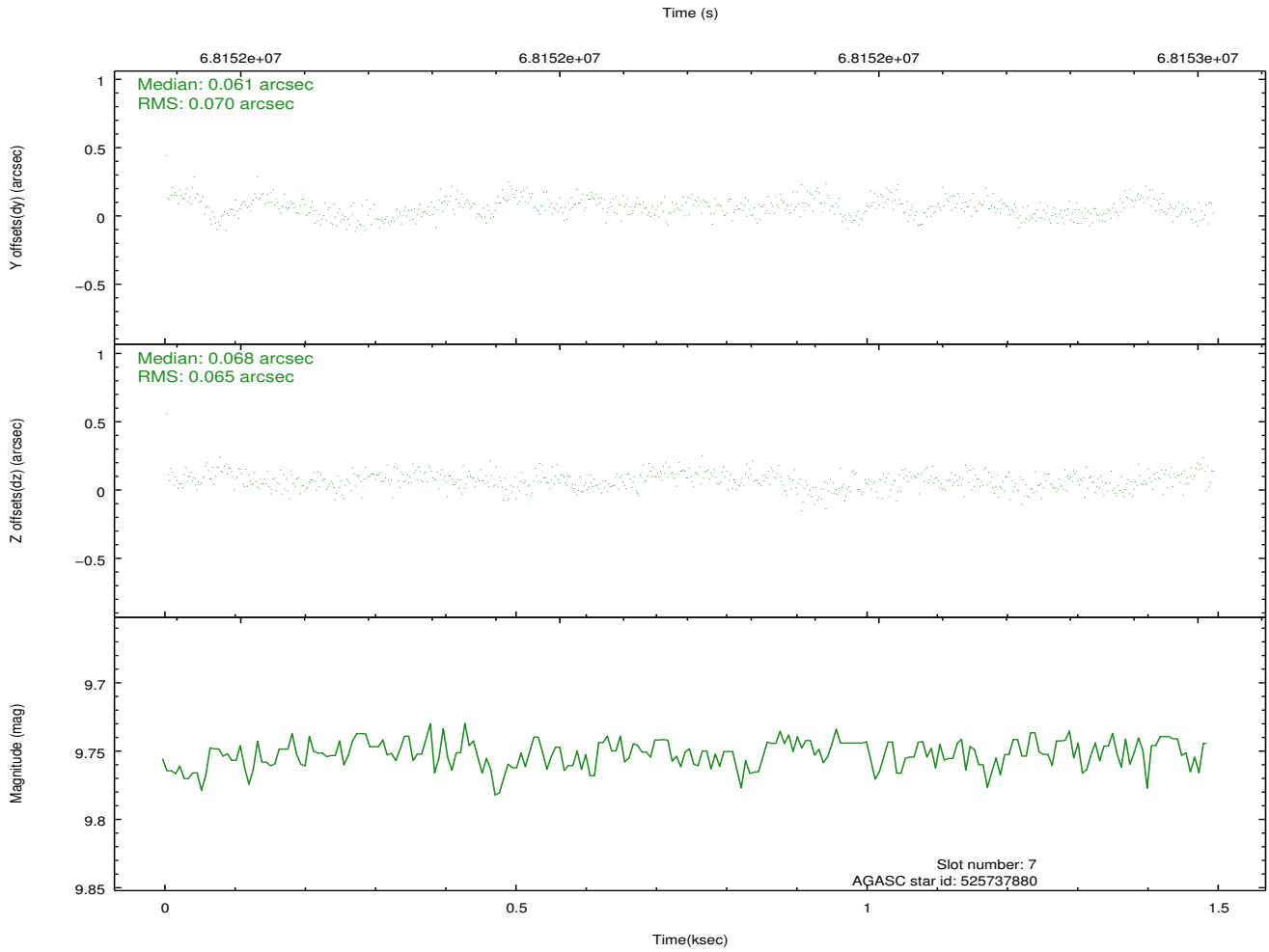
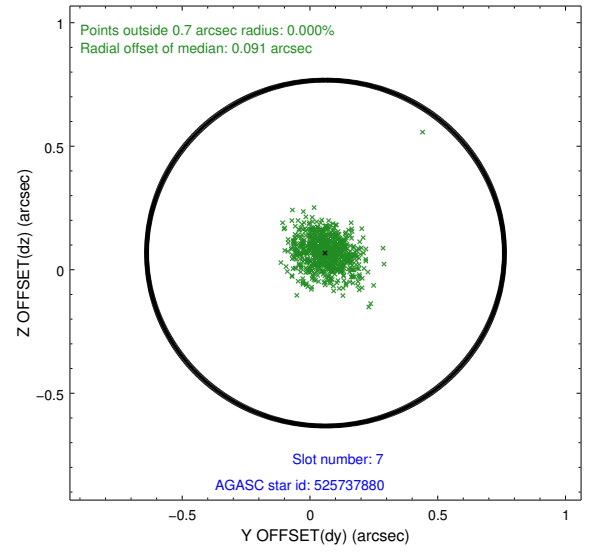
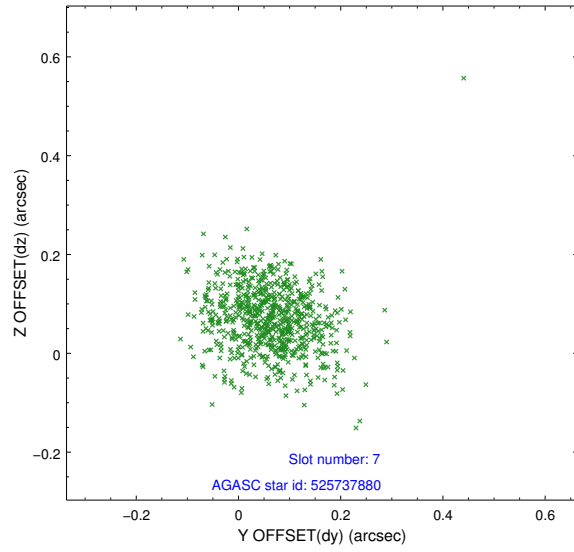
### 2.4.3 Slot 5



## 2.4.4 Slot 6

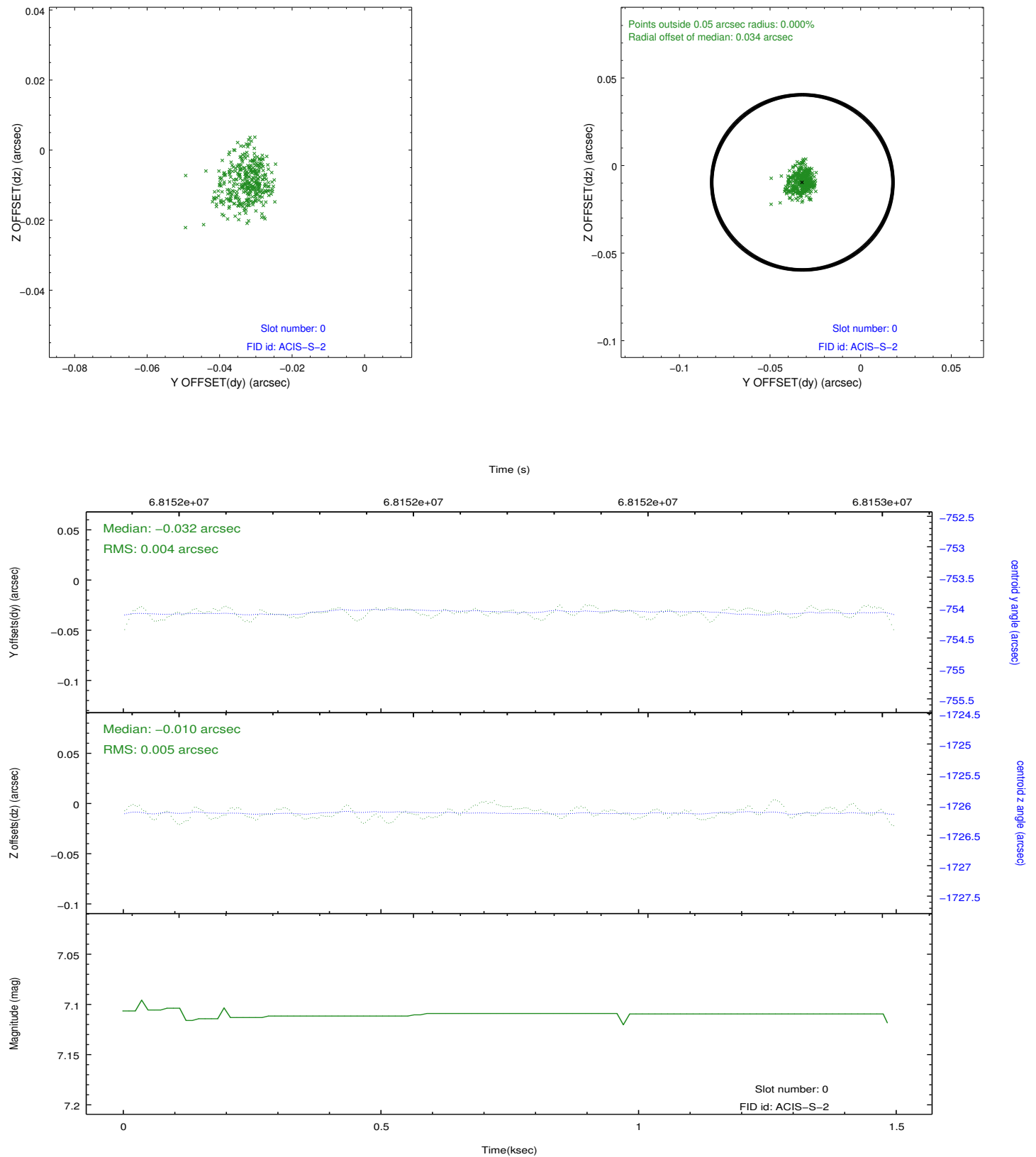


## 2.4.5 Slot 7

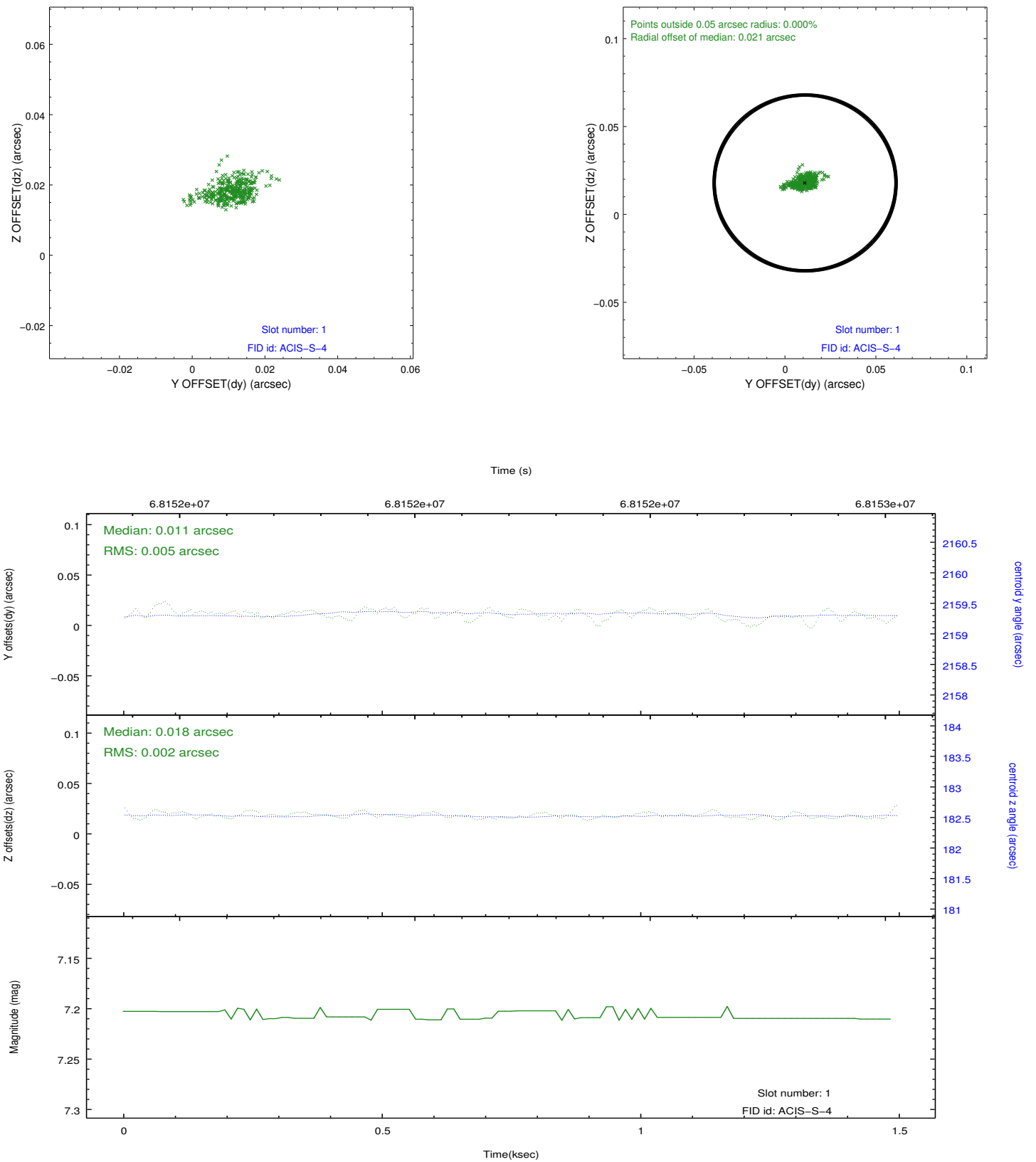


## 2.5 FID Slots

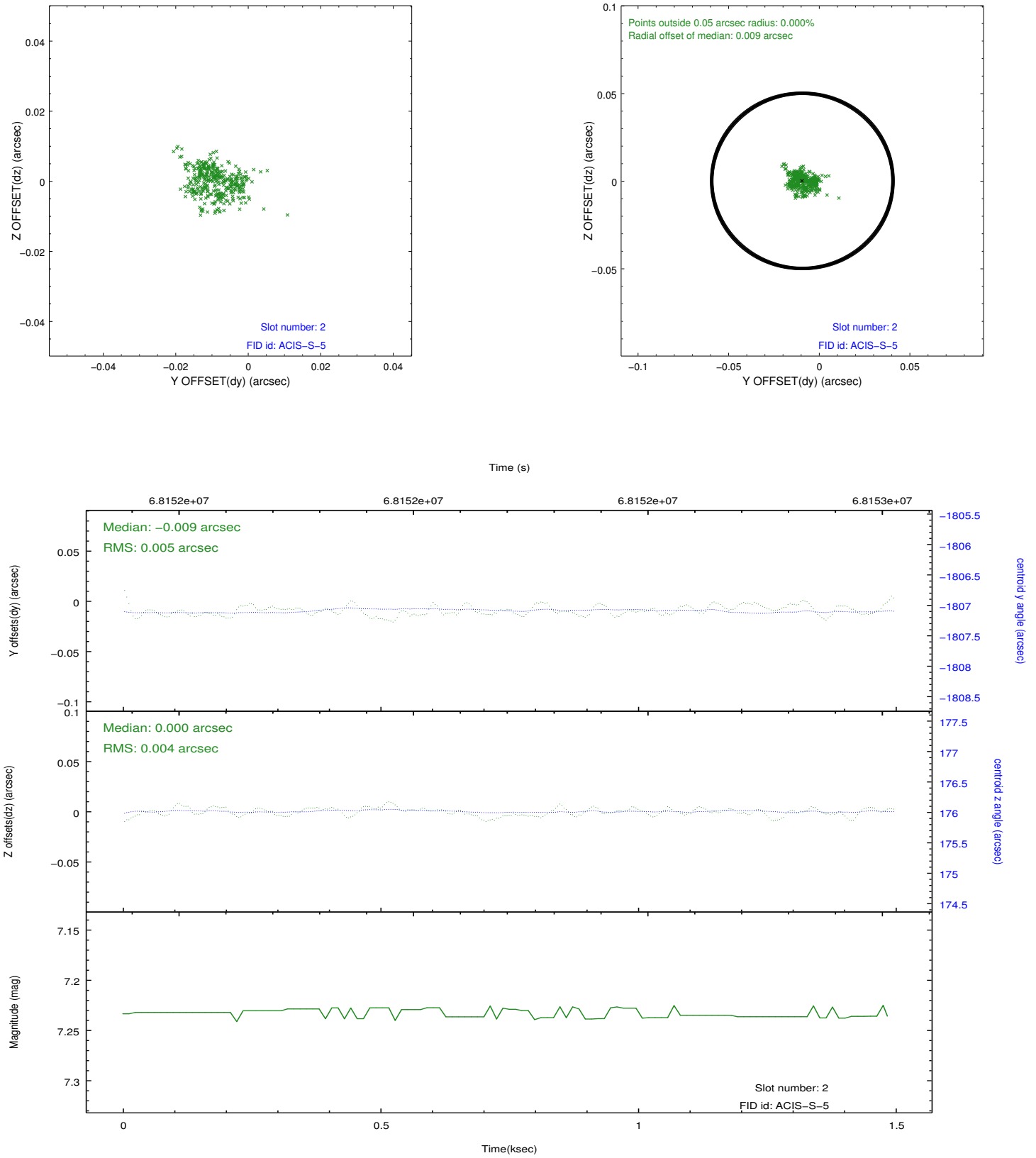
### 2.5.1 Slot 0



## 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)	2012.08.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.972

## A.2 Comments

Charge time for this ObsId remains at previous value of 0.972 ks, although with the current processing the charge time would have been 0.967 ksec. Window constraint met.