

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4858 - L2 Version 3  
Chandra X-Ray Center

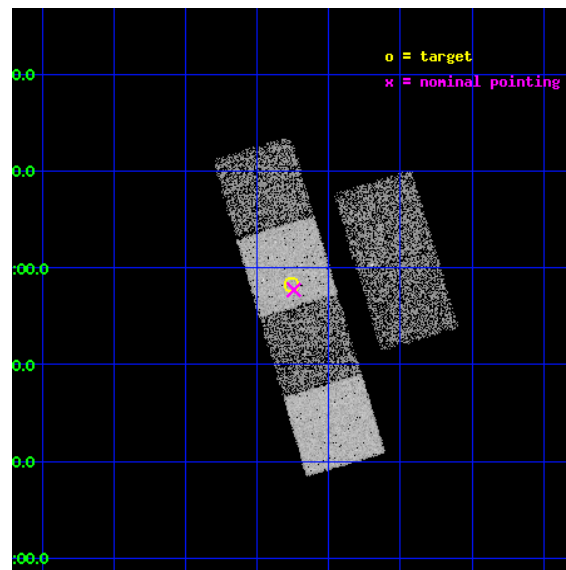
L2 Processing Date : Nov 13 2012

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# 1 Front

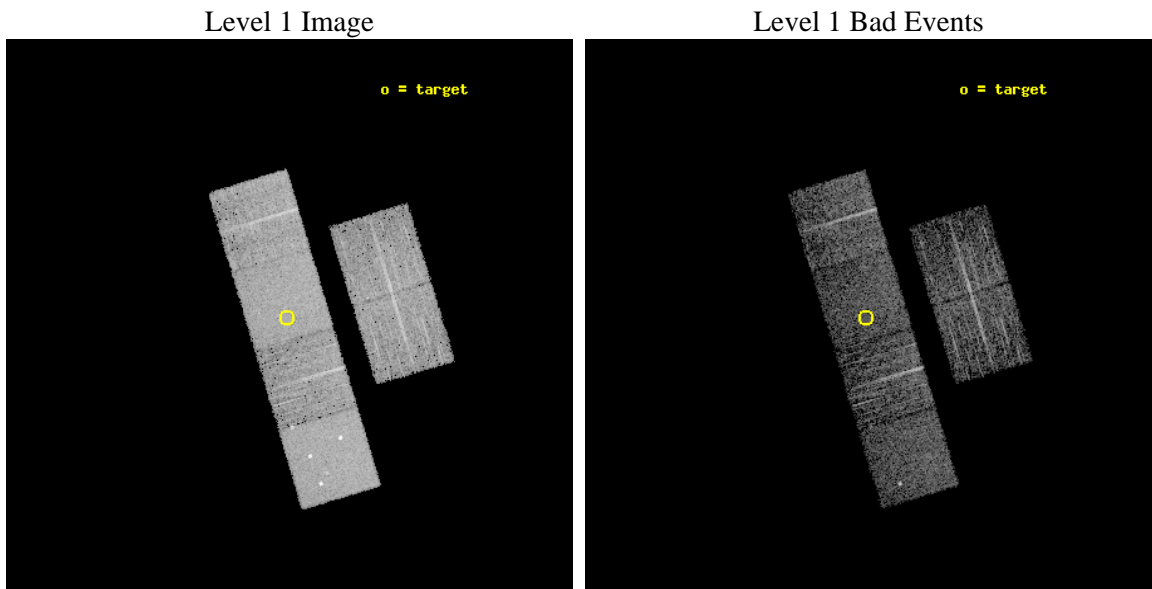
seq_num	700940	Sequence number
obs_id	4858	Observation id
title	X-ray Properties of Dust Reddened Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J113345.62+005813.4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.44	Observer's specified target RA [deg]
dec_targ	0.970389	Observer's specified target Dec [deg]
ra_nom	173.43571152387	Nominal RA [deg]
dec_nom	0.96185229454151	Nominal Dec [deg]
roll_nom	253.1969154996	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4310.3999839425	Sum of GTIs [s]
livetime	4255.8191039346	Livetime [s]
ontime2	4310.3999839425	Sum of GTIs [s]
ontime3	4310.3999839425	Sum of GTIs [s]
ontime5	4310.3999839425	Sum of GTIs [s]
ontime6	4310.3999839425	Sum of GTIs [s]
ontime7	4310.3999839425	Sum of GTIs [s]
ontime8	4310.3999839425	Sum of GTIs [s]
l2events	52273	Number of level 2 events



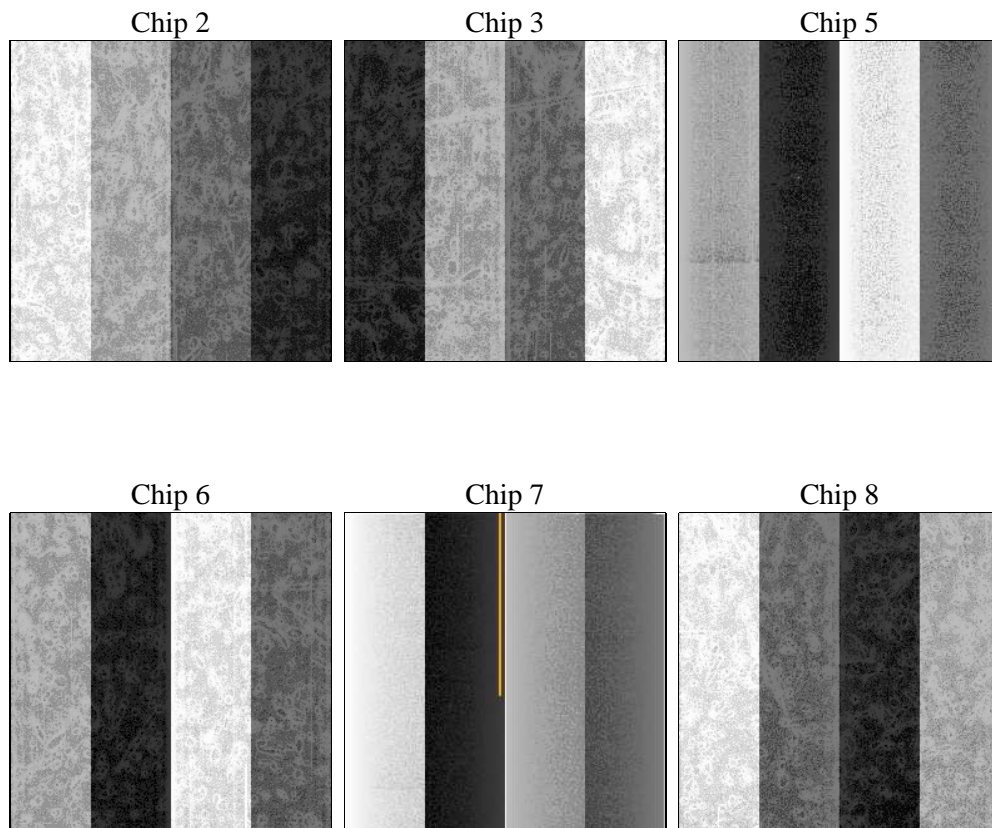
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4350.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4310.3999839425	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4310.3999839425	Sum of GTIs [s]
date	2012-11-14T00:46:44	Date and time of file creation	ontime3	4310.3999839425	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4310.3999839425	Sum of GTIs [s]
			ontime6	4310.3999839425	Sum of GTIs [s]
			ontime7	4310.3999839425	Sum of GTIs [s]
			ontime8	4310.3999839425	Sum of GTIs [s]
			l1events	218178	Number of level 1 events

### 2.1.4 Events

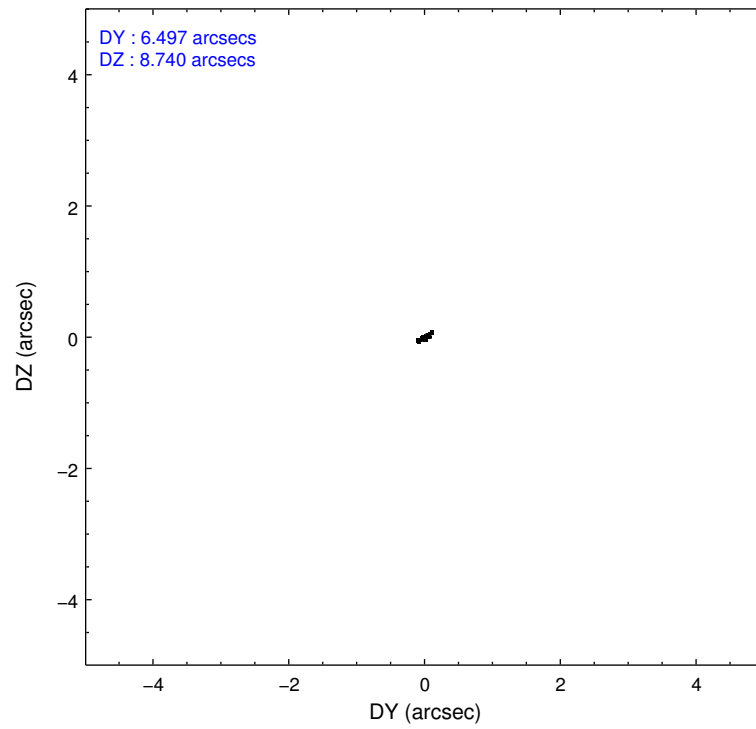
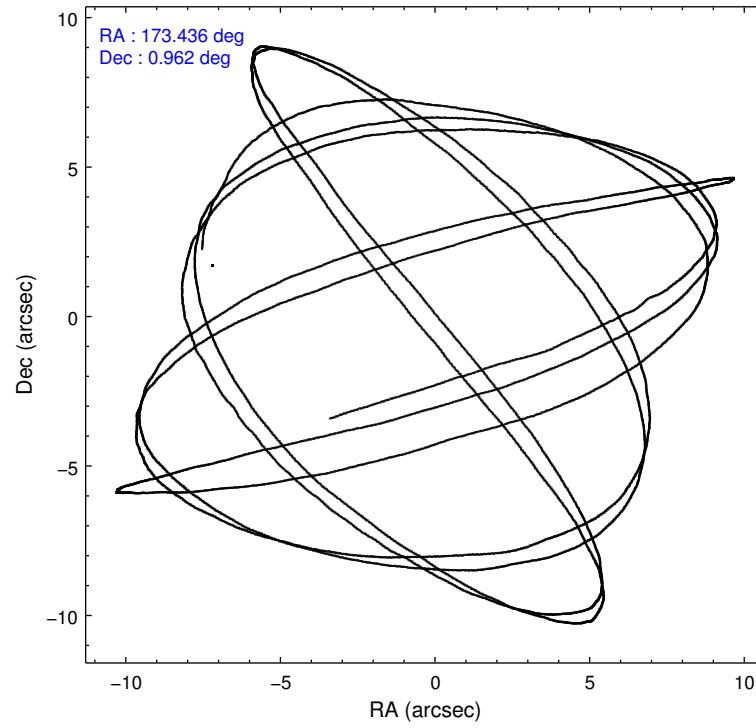
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	31061	29665	47138	30701	41161	38452	grade 0 events	1984	2219	3669	1903	1645	3026
rejected events	26921	25218	24247	26337	23662	29877		6%	7%	7%	6%	3%	7%
rejected %	86%	85%	51%	85%	57%	77%	grade 1 events	25	24	92	19	34	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	795	780	6633	847	3434	1802
								2%	2%	14%	2%	8%	4%
							grade 3 events	355	402	873	396	1526	863
								1%	1%	1%	1%	3%	2%
							grade 4 events	397	400	755	377	1493	813
								1%	1%	1%	1%	3%	2%
							grade 5 events	1214	1304	3340	1344	3874	1729
								3%	4%	7%	4%	9%	4%
							grade 6 events	612	660	11000	854	9438	2088
								1%	2%	23%	2%	22%	5%
							grade 7 events	25679	23876	20776	24961	19717	28099
								82%	80%	44%	81%	47%	73%

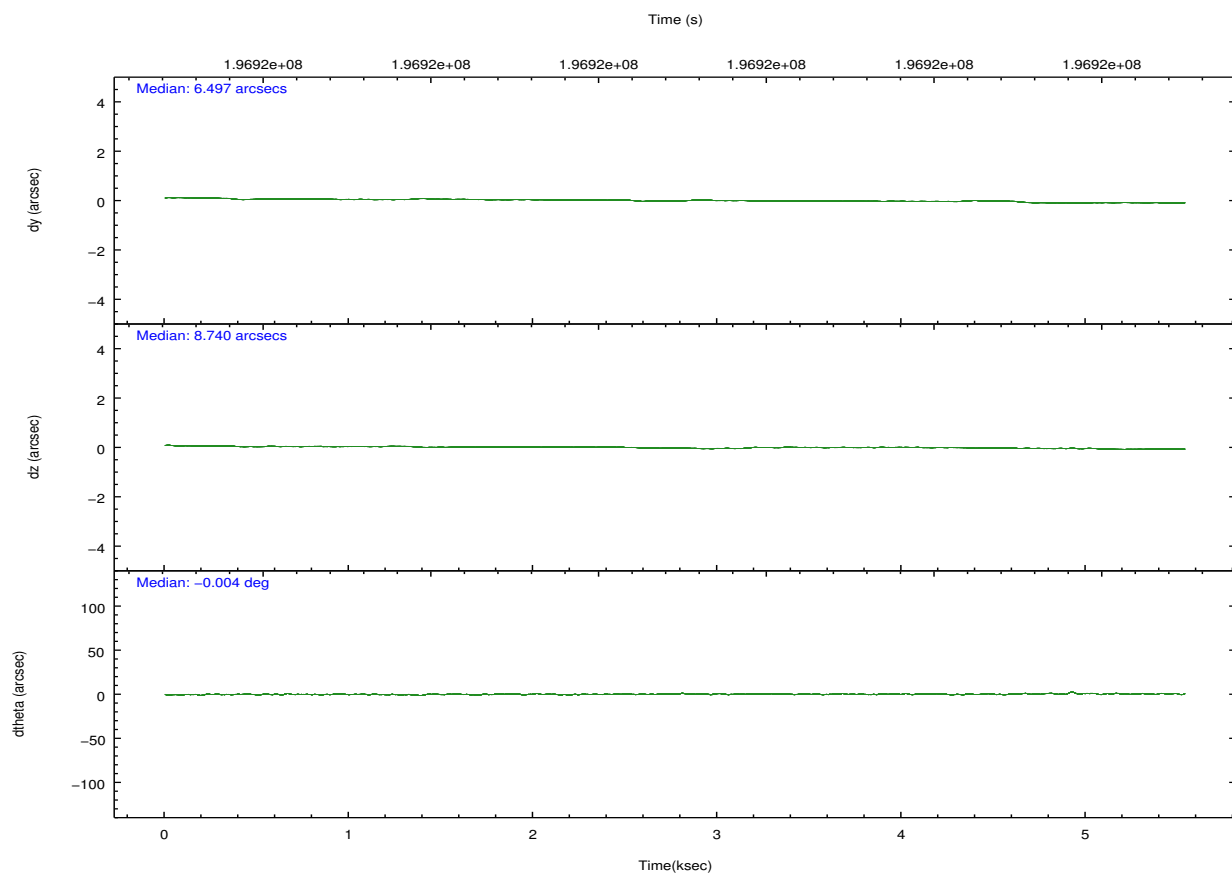
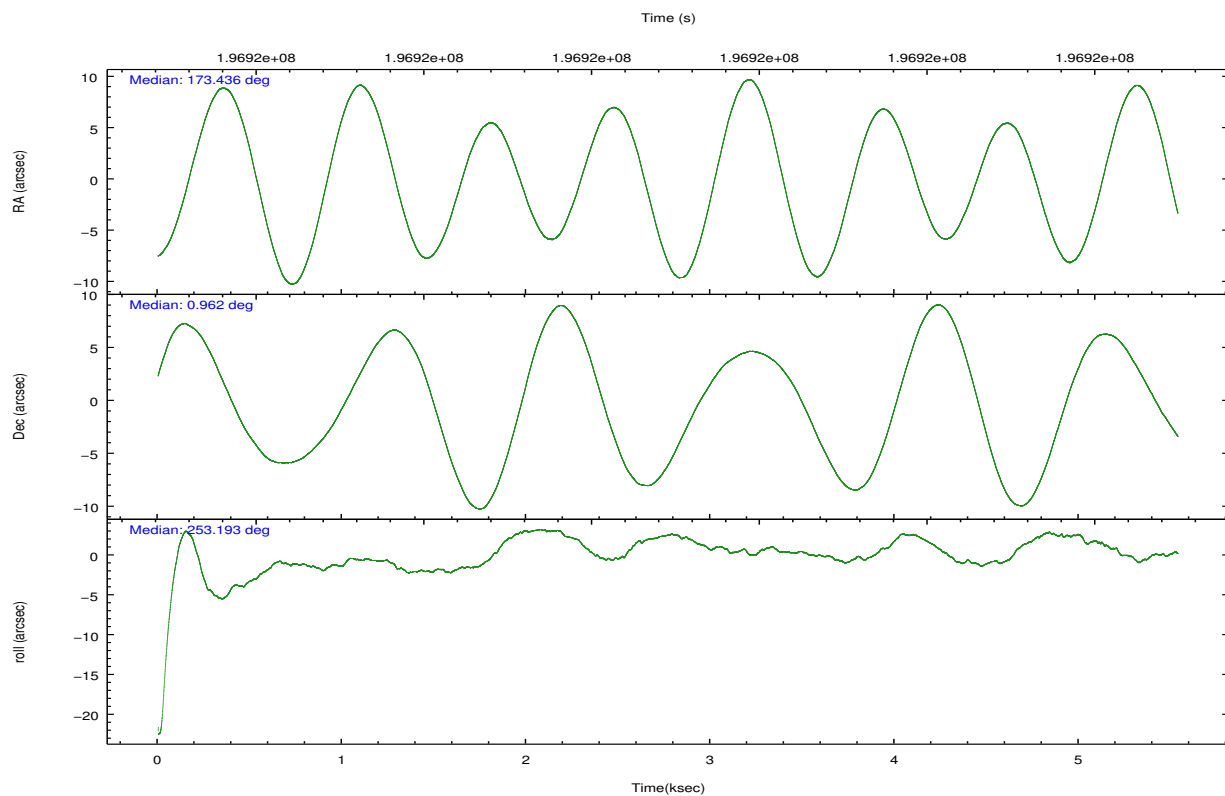


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	173.429048	173.4357115238676	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.988194	0.9618522945415107	Alternating exposures requested	N	N
[deg] Pointing Roll	253.040394	253.1969154996033	[s] Primary exposure time	0.000000	3.2
[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)	196915881.184000	196914416.44338			
Observation start date	2004-03-29T02:50:17	2004-03-29T02:26:56			
[s] Observation end time (MET)	196920231.184000	196921055.36867			
Observation end date	2004-03-29T04:02:47	2004-03-29T04:17:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect



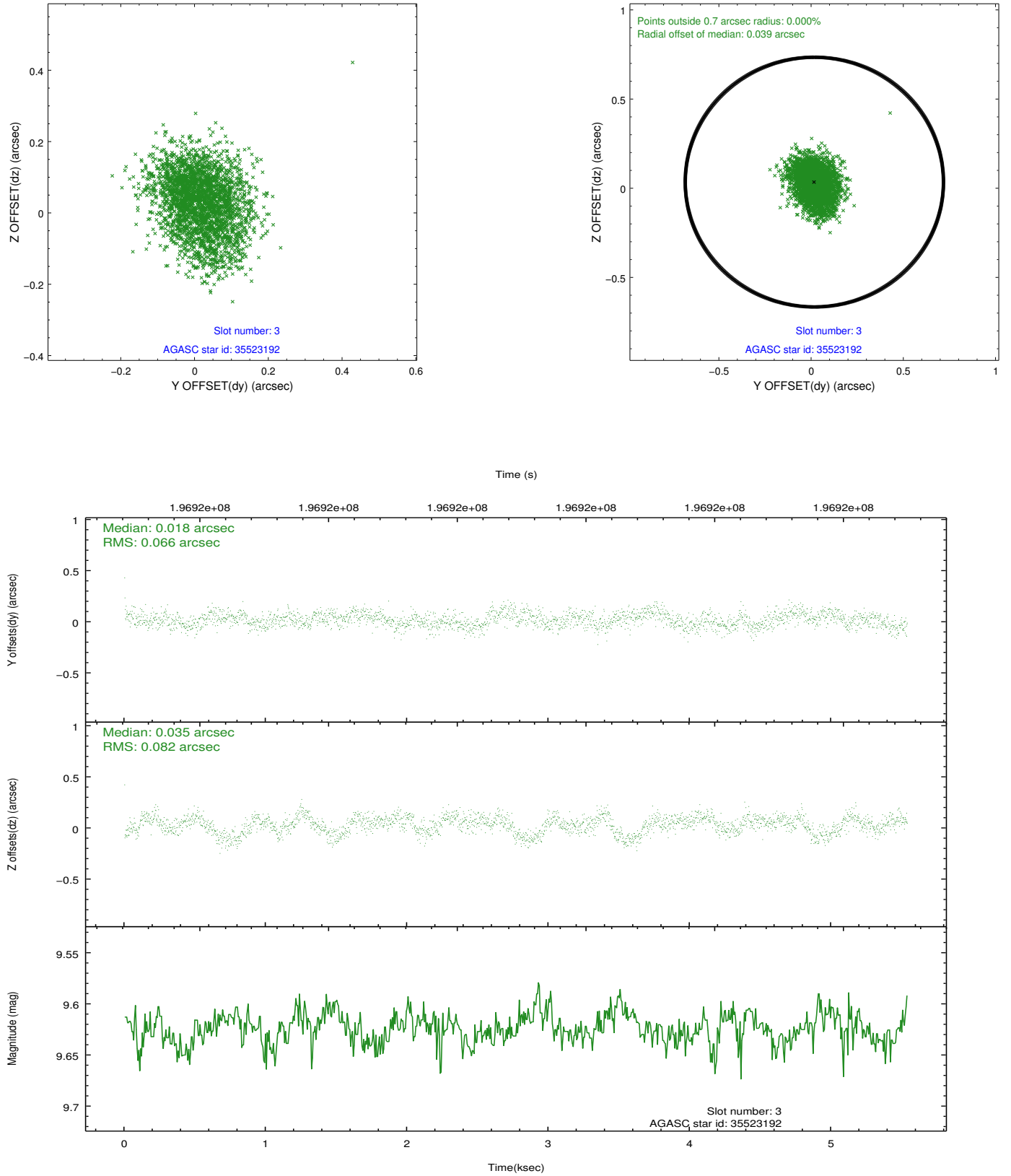


### Slot Statistics

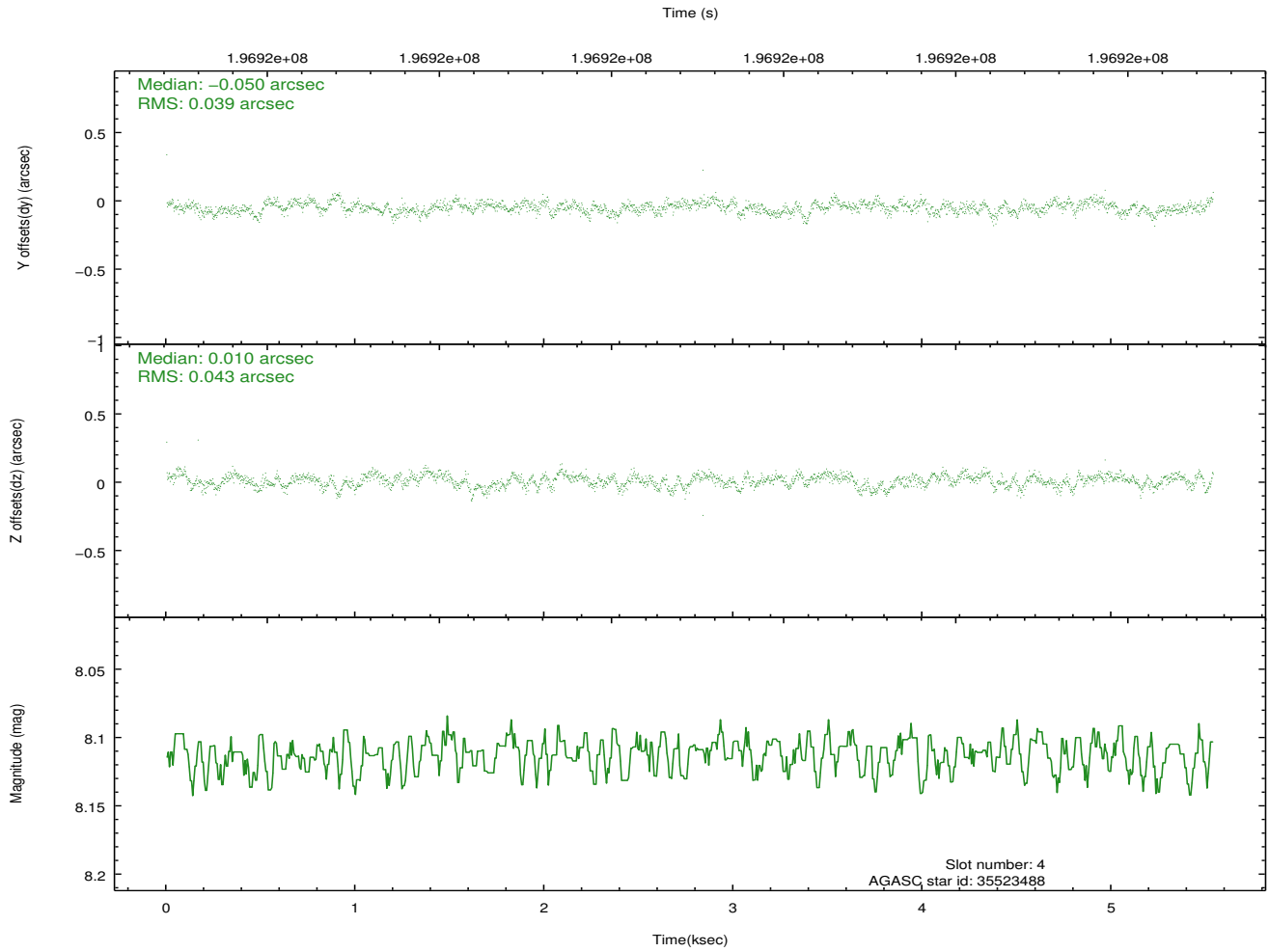
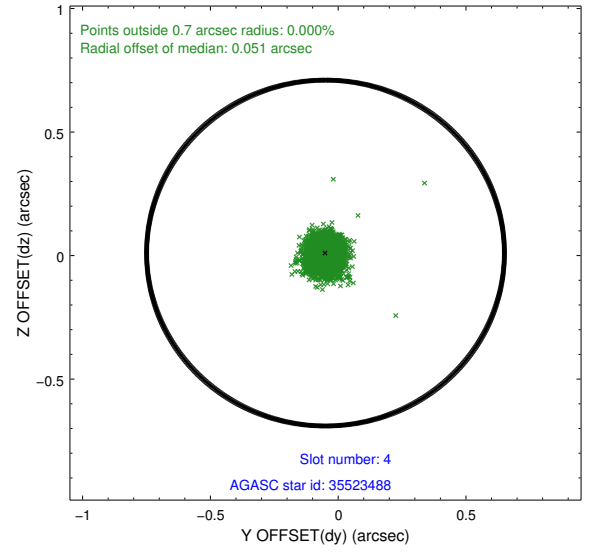
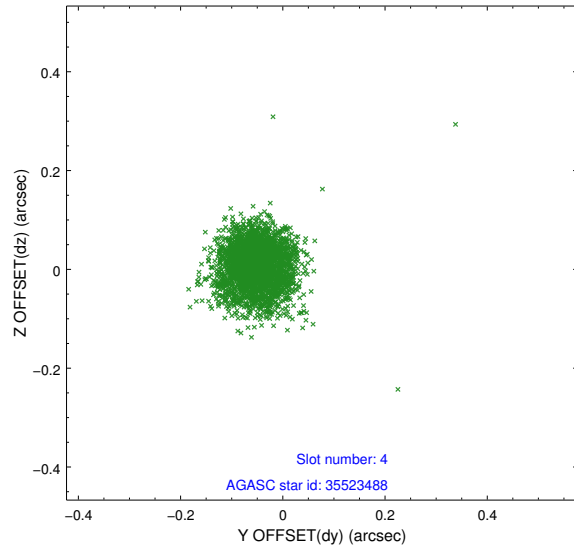
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1351	-0.040	-0.047	0.007	0.011	0.000000	0.000000	-759.28	-1729.94
1	FID	ACIS-S-4	7.20	1351	0.082	0.032	0.006	0.010	0.000000	0.000000	2153.63	177.49
2	FID	ACIS-S-5	7.23	1351	-0.073	0.025	0.007	0.011	0.000000	0.000000	-1810.76	172.40
3	GUIDE	35523192	9.62	2700	0.018	0.035	0.112	0.182	173.097773	0.596002	1699.18	-728.75
4	GUIDE	35523488	8.11	2700	-0.050	0.010	0.060	0.097	173.259338	1.285912	-845.52	-897.19
5	GUIDE	35523696	9.78	2702	0.002	-0.003	0.106	0.187	173.049226	0.720444	1321.34	-1027.20
6	GUIDE	35523952	8.66	2698	0.010	-0.037	0.072	0.113	173.151656	1.340213	-919.33	-1325.38
7	GUIDE	35528048	9.44	2699	0.027	0.000	0.092	0.153	173.938879	1.190096	-1230.26	1542.56

## 2.4 Star Slots

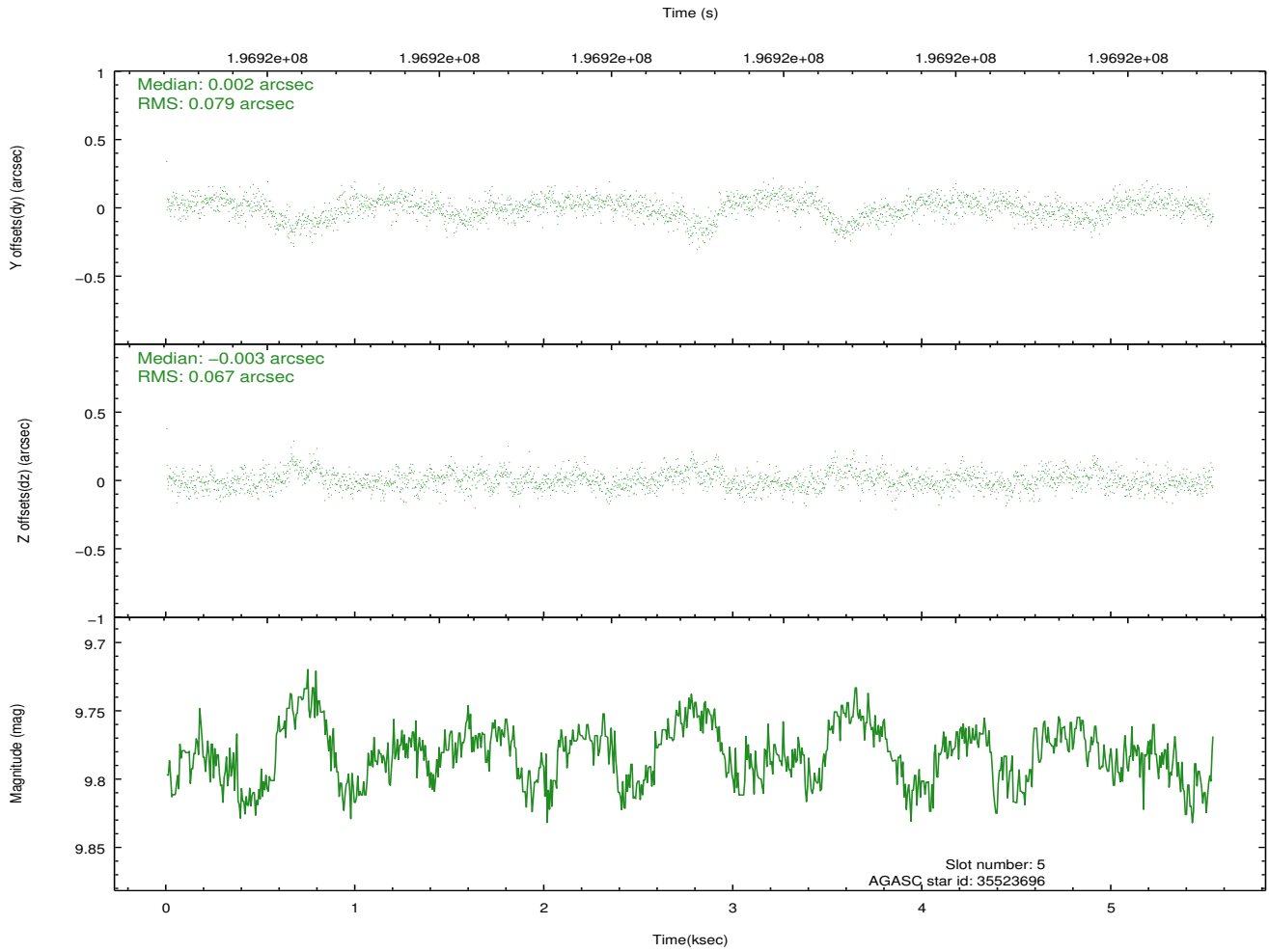
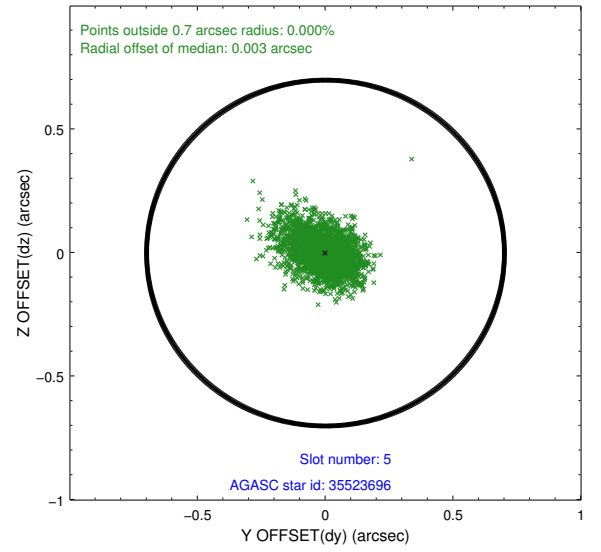
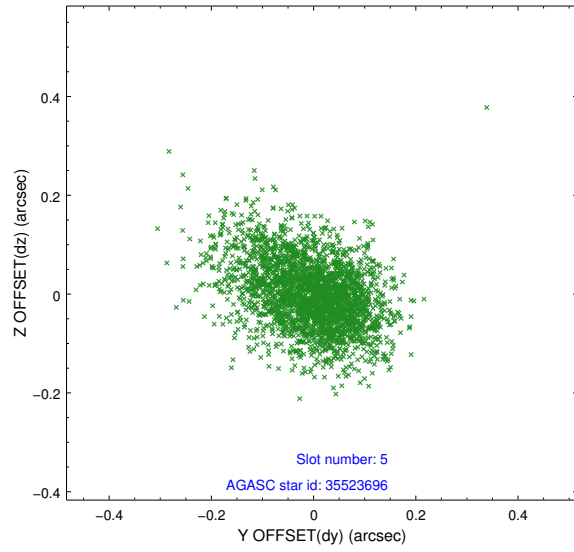
### 2.4.1 Slot 3



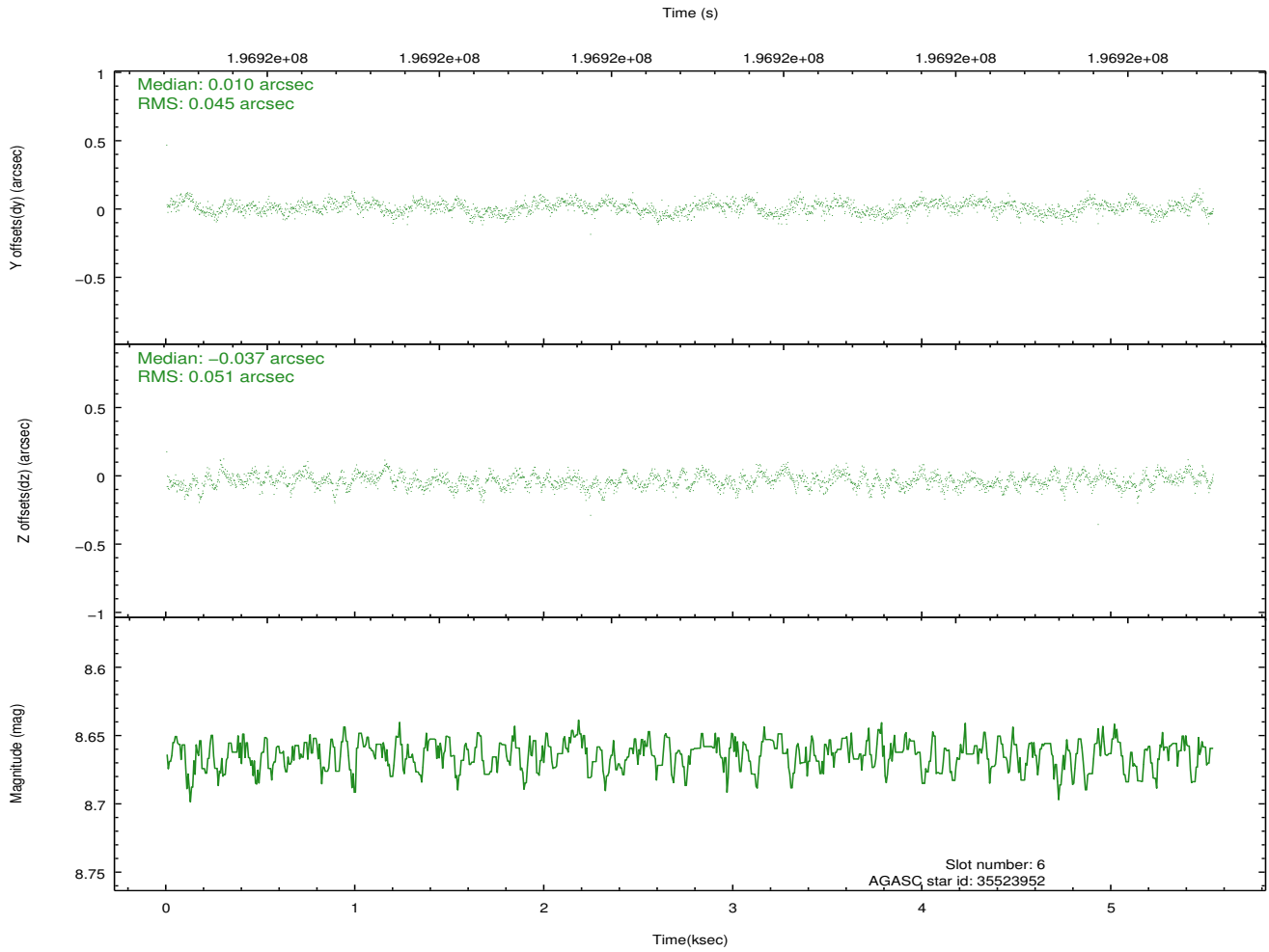
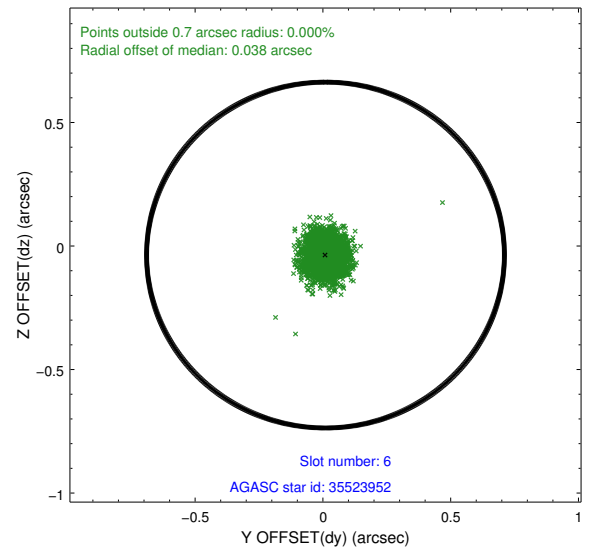
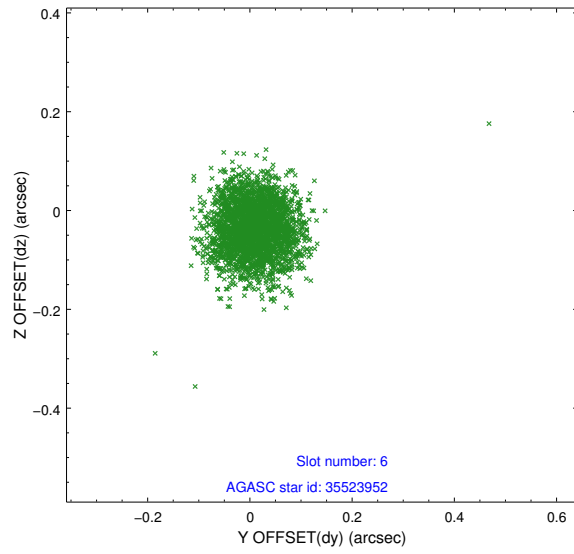
## 2.4.2 Slot 4



### 2.4.3 Slot 5

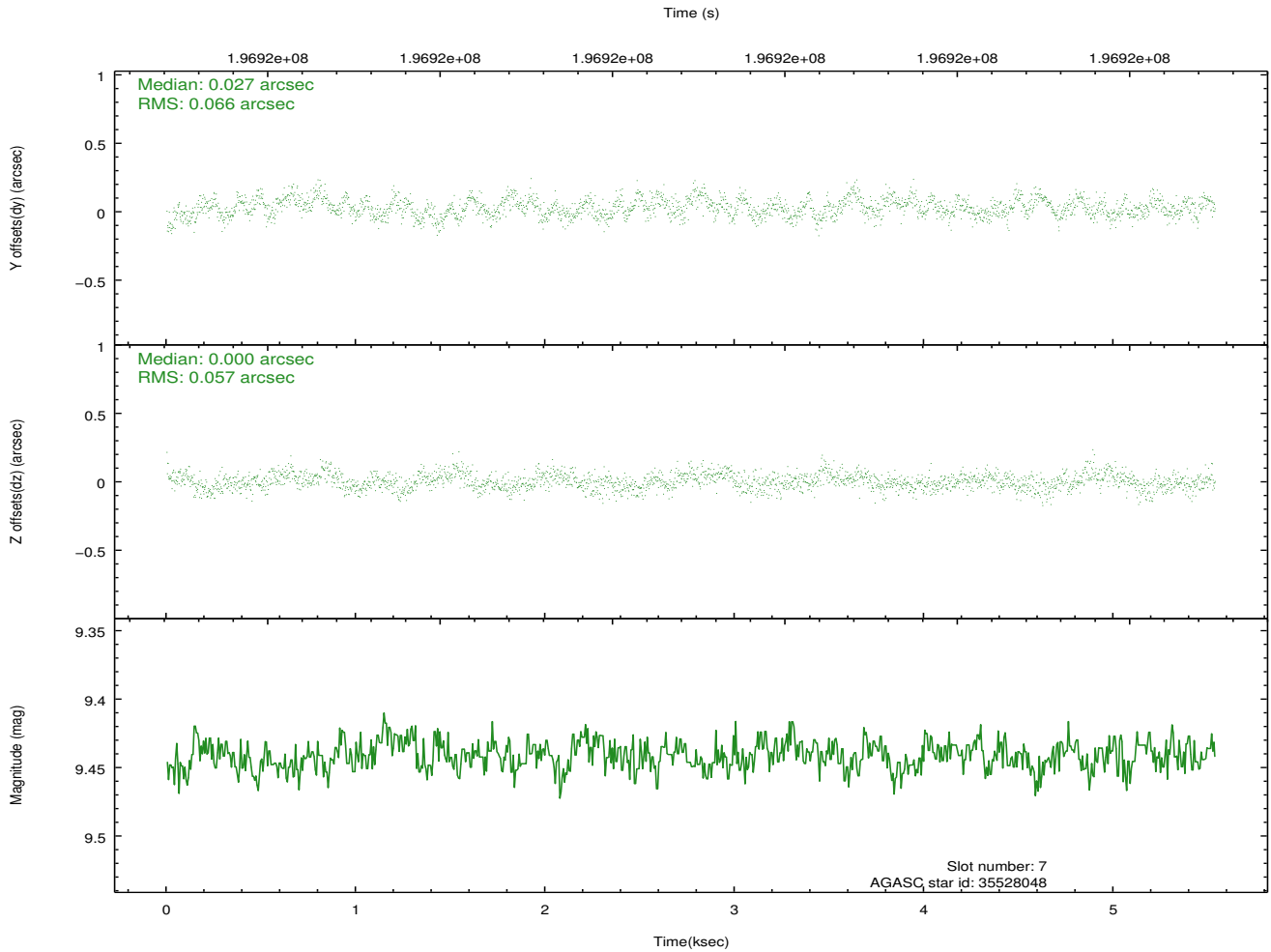
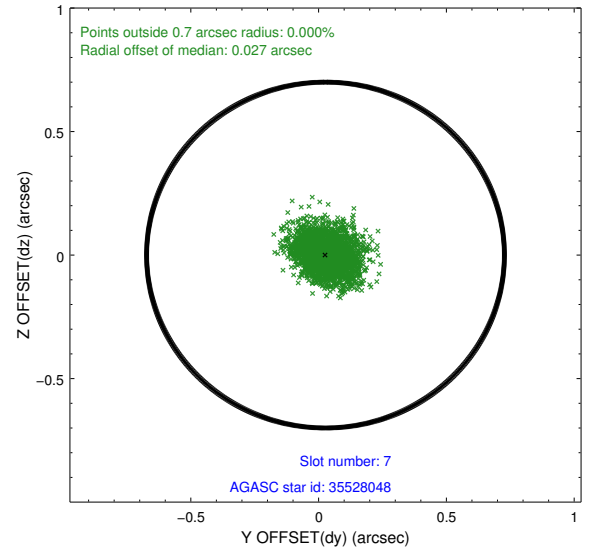
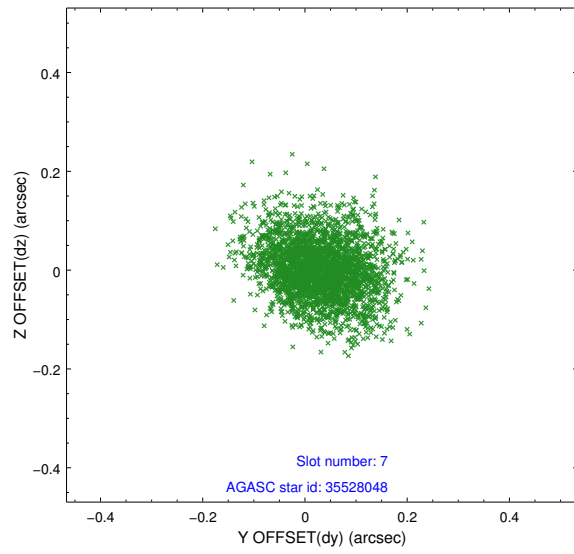


## 2.4.4 Slot 6



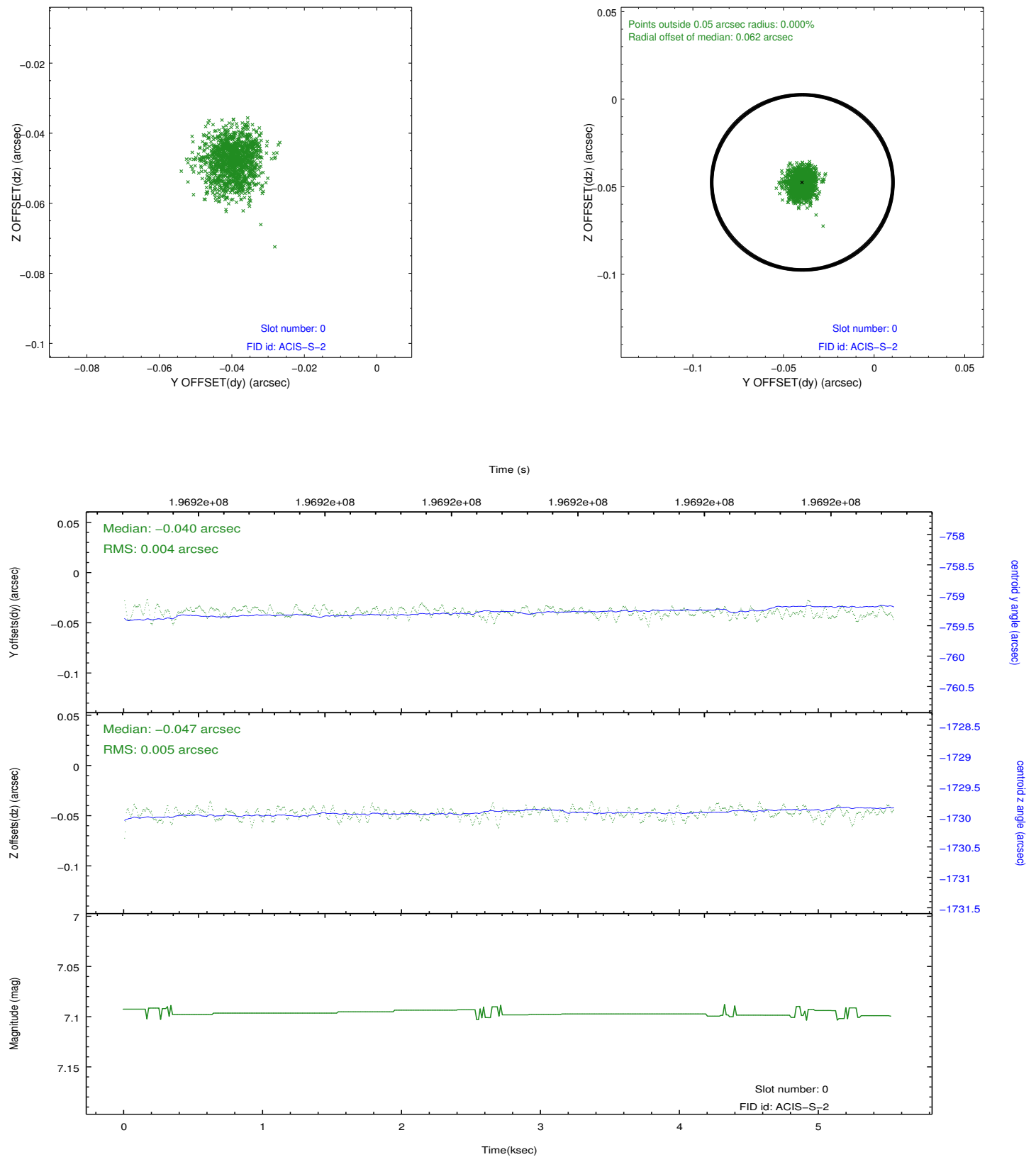


## 2.4.5 Slot 7

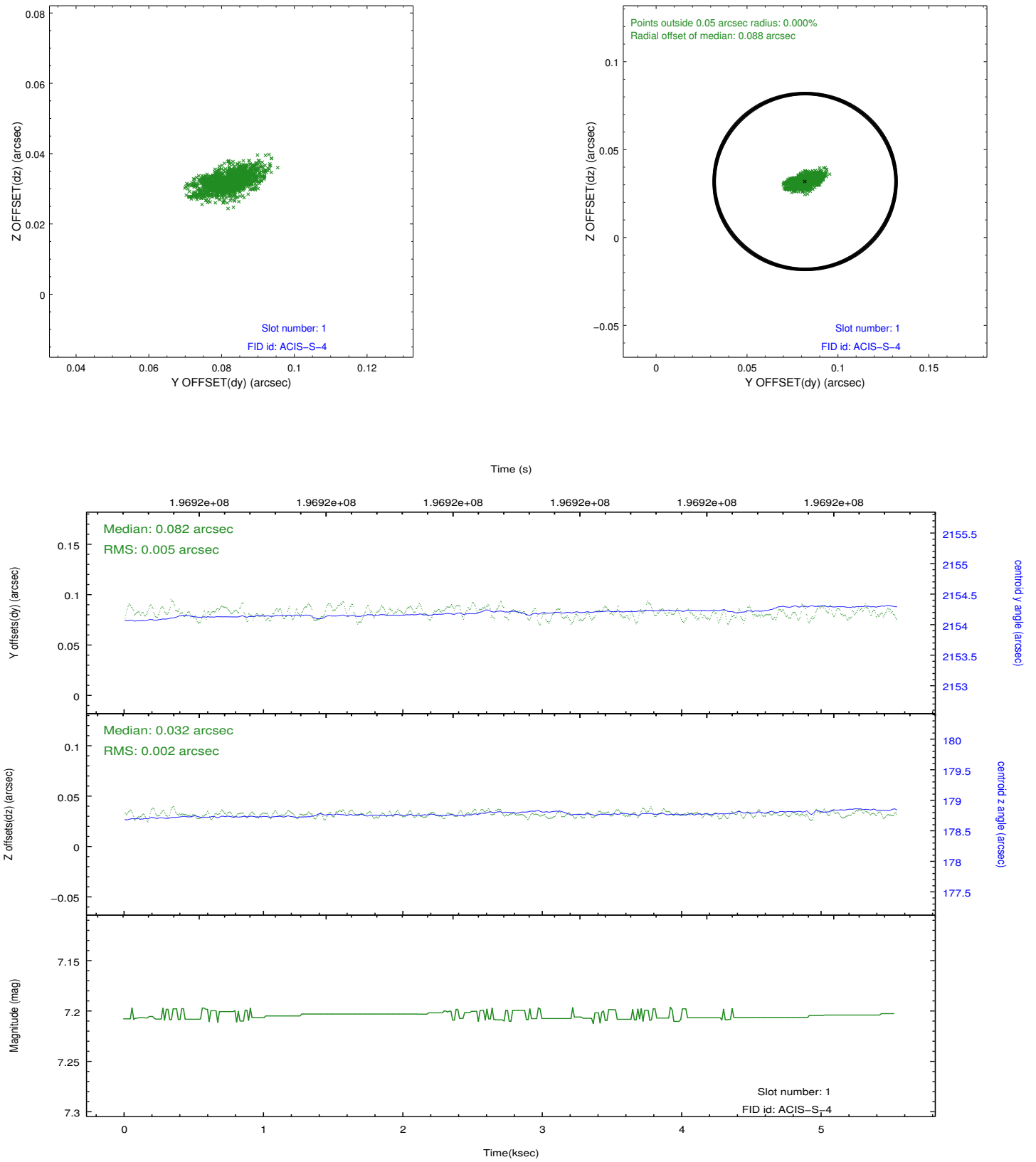


## 2.5 FID Slots

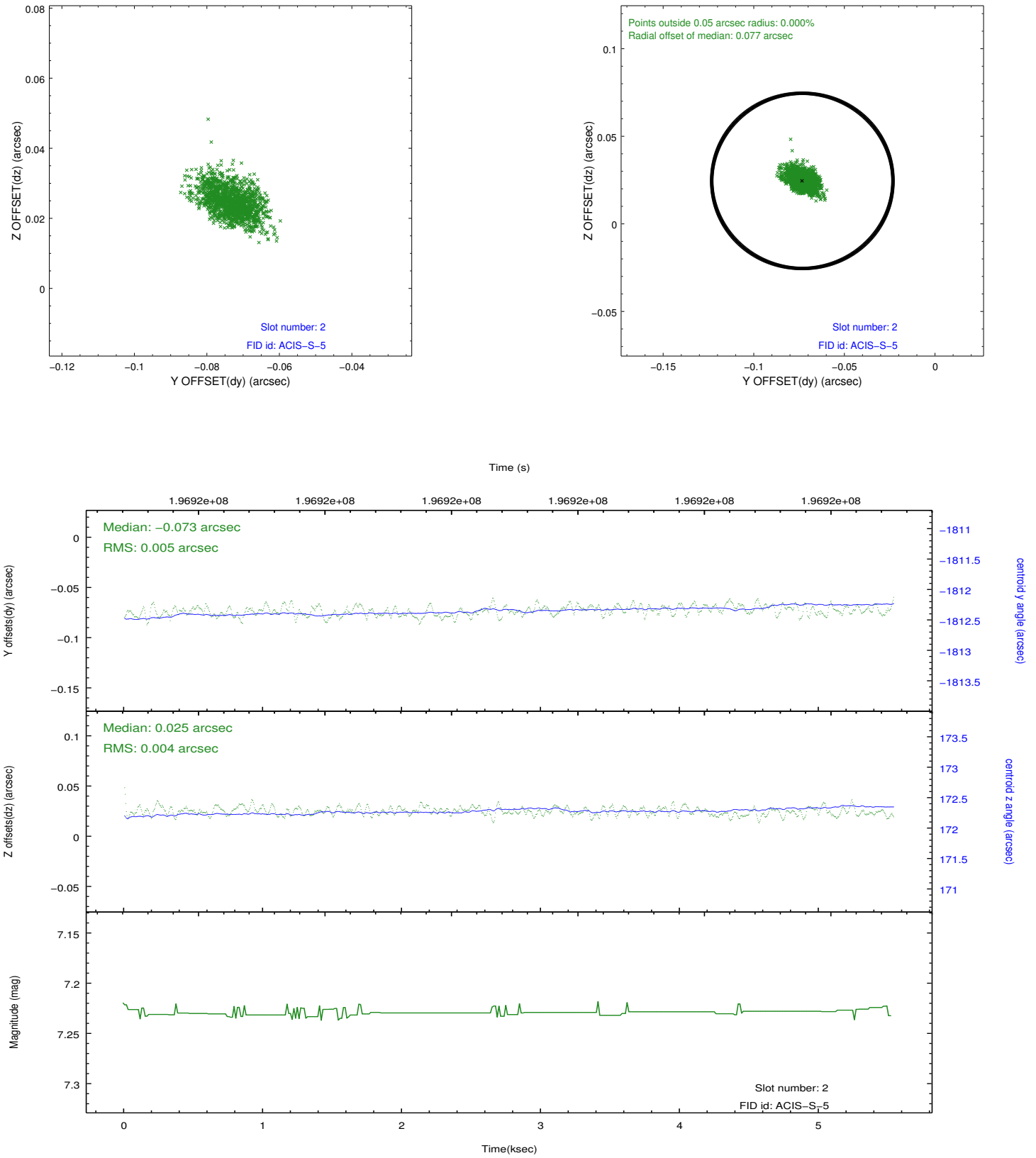
### 2.5.1 Slot 0



## 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)	2012.12.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.313

### **A.2 Comments**