

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4126 - L2 Version 3  
Chandra X-Ray Center

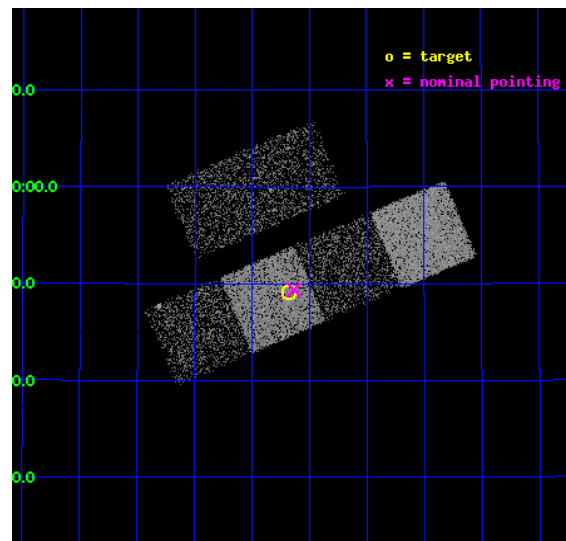
L2 Processing Date : Oct 26 2012

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# 1 Front

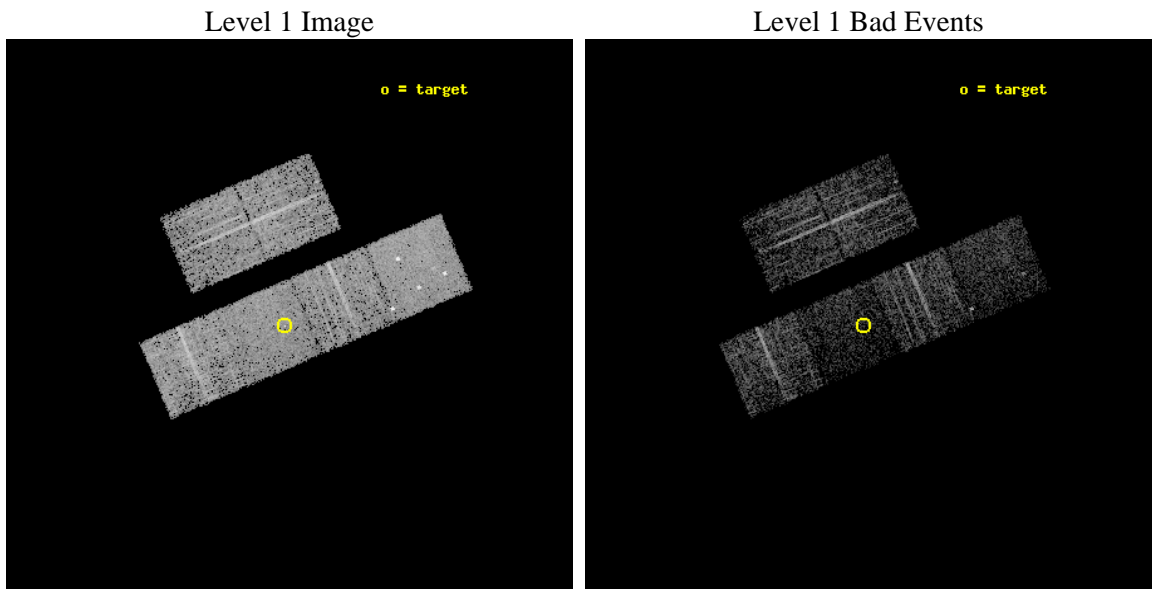
seq_num	700805	Sequence number
obs_id	4126	Observation id
title	WHAT KIND OF JETS DOES NATURE MAKE? X-RAY CHARACTERIZATION OF THE FIRST FLAT SPECTRUM SAMPLE	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	TXS 1428+370	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.669167	Observer's specified target RA [deg]
dec_targ	36.817806	Observer's specified target Dec [deg]
ra_nom	217.6591831513	Nominal RA [deg]
dec_nom	36.822905278836	Nominal Dec [deg]
roll_nom	156.88025534491	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3974.3999851942	Sum of GTIs [s]
livetime	3924.0737394853	Livetime [s]
ontime2	3974.3999851942	Sum of GTIs [s]
ontime3	3974.3999851942	Sum of GTIs [s]
ontime5	3974.3999851942	Sum of GTIs [s]
ontime6	3971.1590049267	Sum of GTIs [s]
ontime7	3974.3999851942	Sum of GTIs [s]
ontime8	3974.3999851942	Sum of GTIs [s]
l2events	25542	Number of level 2 events



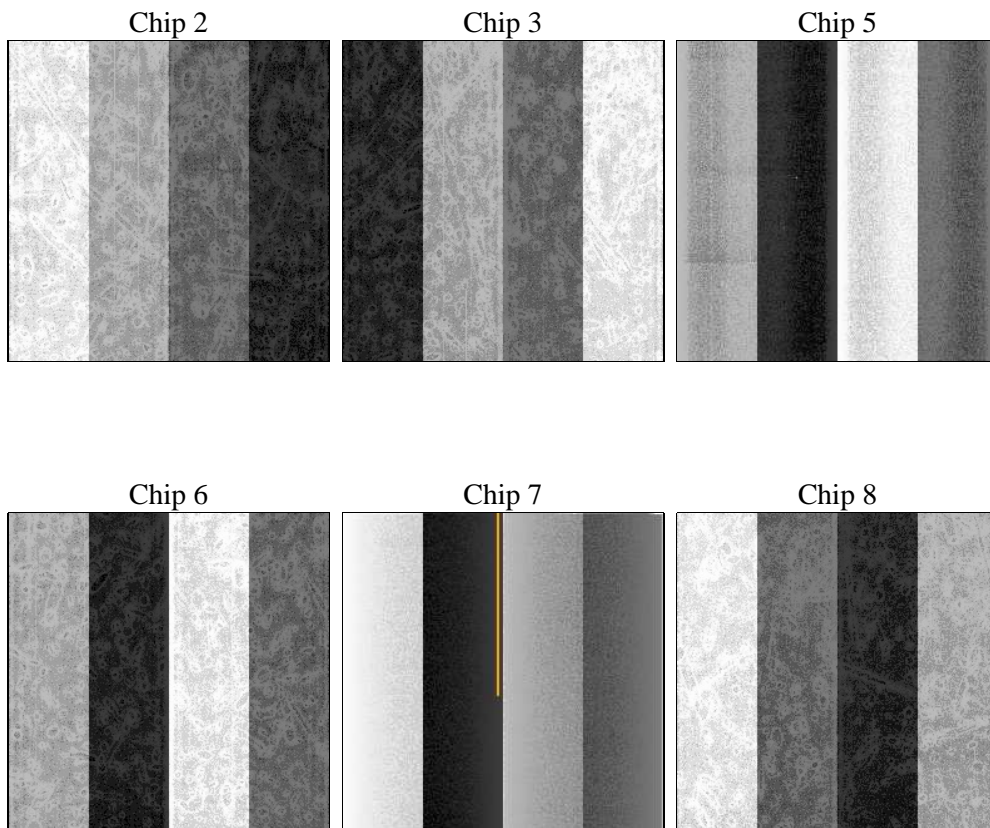
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4014.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3974.3999851942	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	3974.3999851942	Sum of GTIs [s]
date	2012-10-26T13:15:49	Date and time of file creation	ontime3	3974.3999851942	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3974.3999851942	Sum of GTIs [s]
			ontime6	3971.1590049267	Sum of GTIs [s]
			ontime7	3974.3999851942	Sum of GTIs [s]
			ontime8	3974.3999851942	Sum of GTIs [s]
			l1events	121066	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19720	17852	24708	19137	17247	22402
rejected events	17834	16181	10975	17234	8663	17620
rejected %	90%	90%	44%	90%	50%	78%

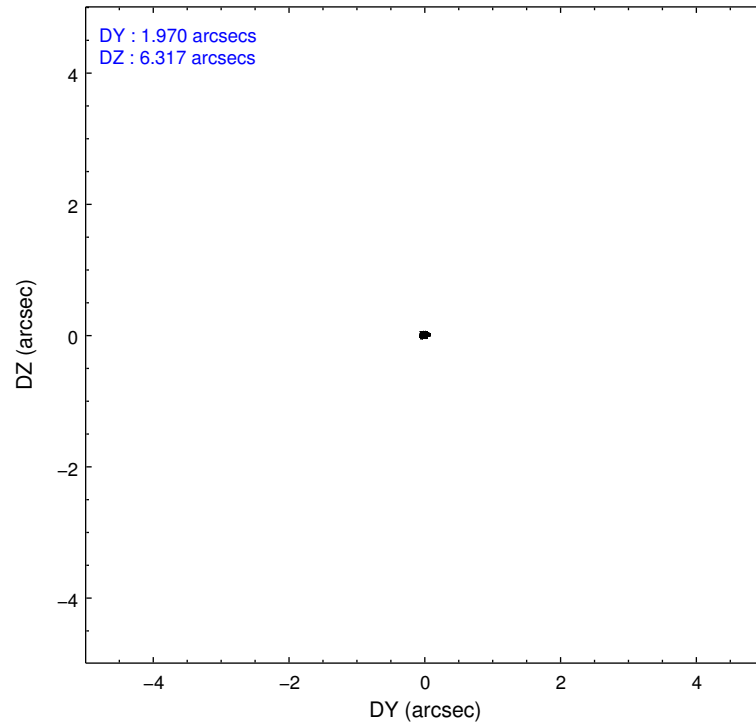
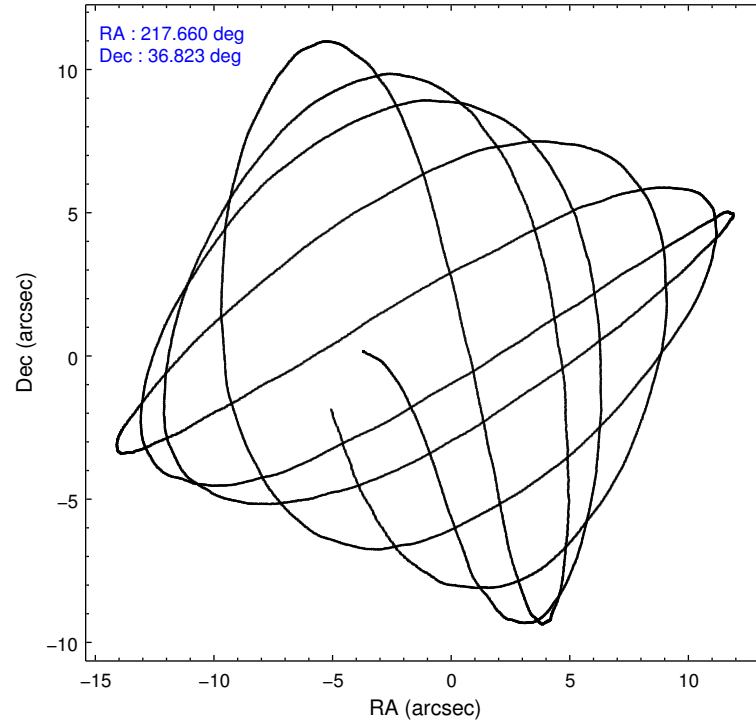
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	698	621	2958	728	904	1437
	3%	3%	11%	3%	5%	6%
grade 1 events	8	12	188	8	17	9
	0%	0%	0%	0%	0%	0%
grade 2 events	463	346	3870	418	1764	1025
	2%	1%	15%	2%	10%	4%
grade 3 events	211	190	593	193	875	522
	1%	1%	2%	1%	5%	2%
grade 4 events	199	205	555	200	849	505
	1%	1%	2%	1%	4%	2%
grade 5 events	513	605	1941	609	1905	920
	2%	3%	7%	3%	11%	4%
grade 6 events	315	310	5767	364	4197	1296
	1%	1%	23%	1%	24%	5%
grade 7 events	17313	15563	8836	16617	6736	16688
	87%	87%	35%	86%	39%	74%

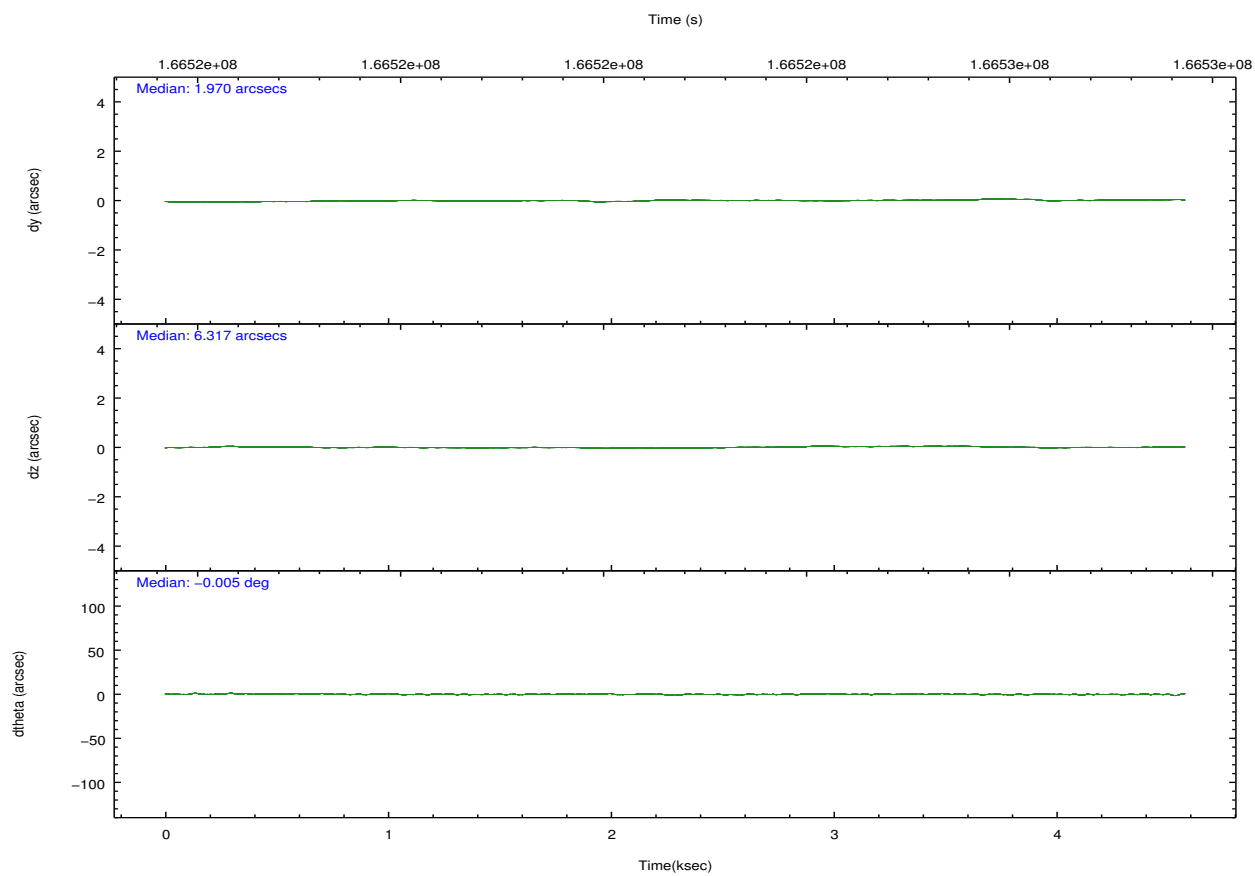
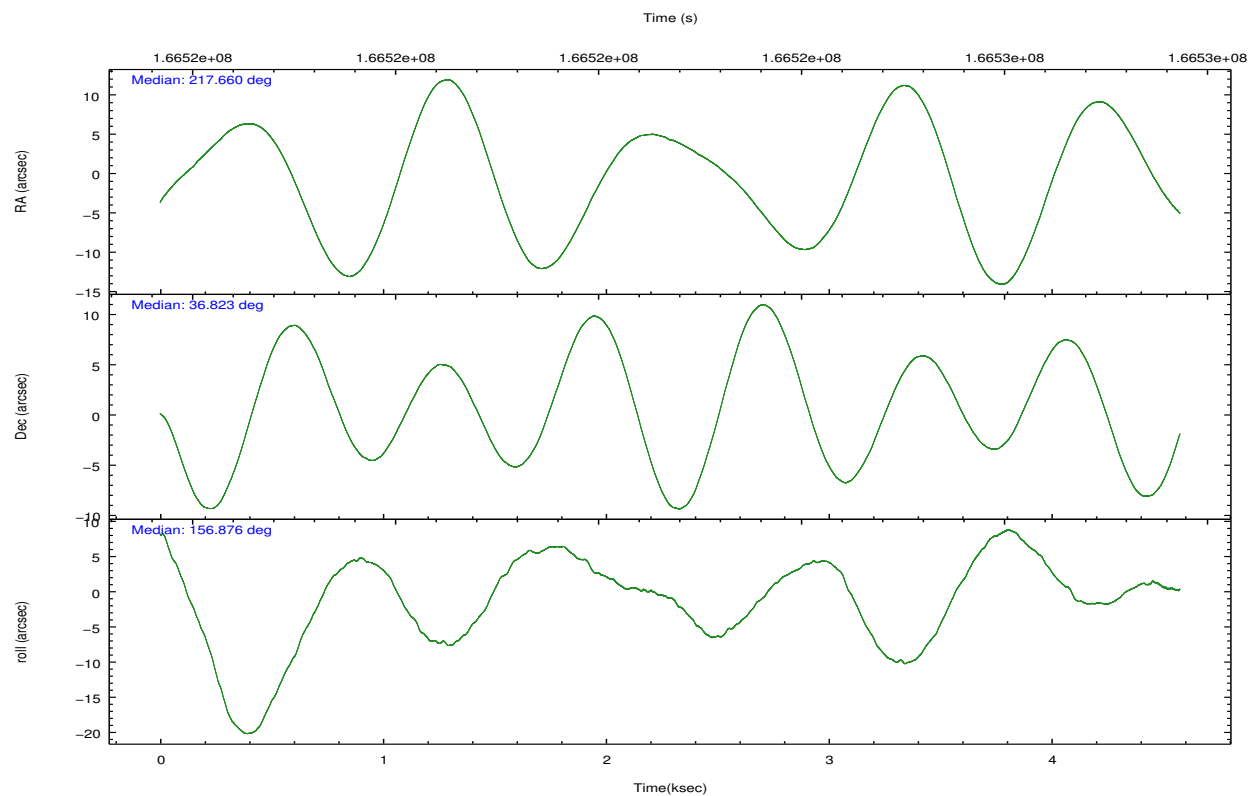


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	217.692779	217.659183151301	Subarray requested	NONE	NONE
[deg] Pointing Dec	36.826731	36.82290527883635	Alternating exposures requested	N	N
[deg] Pointing Roll	156.703465	156.8802553449081	[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)	166522625.184000	166521475.42267			
Observation start date	2003-04-12T08:16:01	2003-04-12T07:57:55			
[s] Observation end time (MET)	166526639.184000	166526977.6229			
Observation end date	2003-04-12T09:22:55	2003-04-12T09:29:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



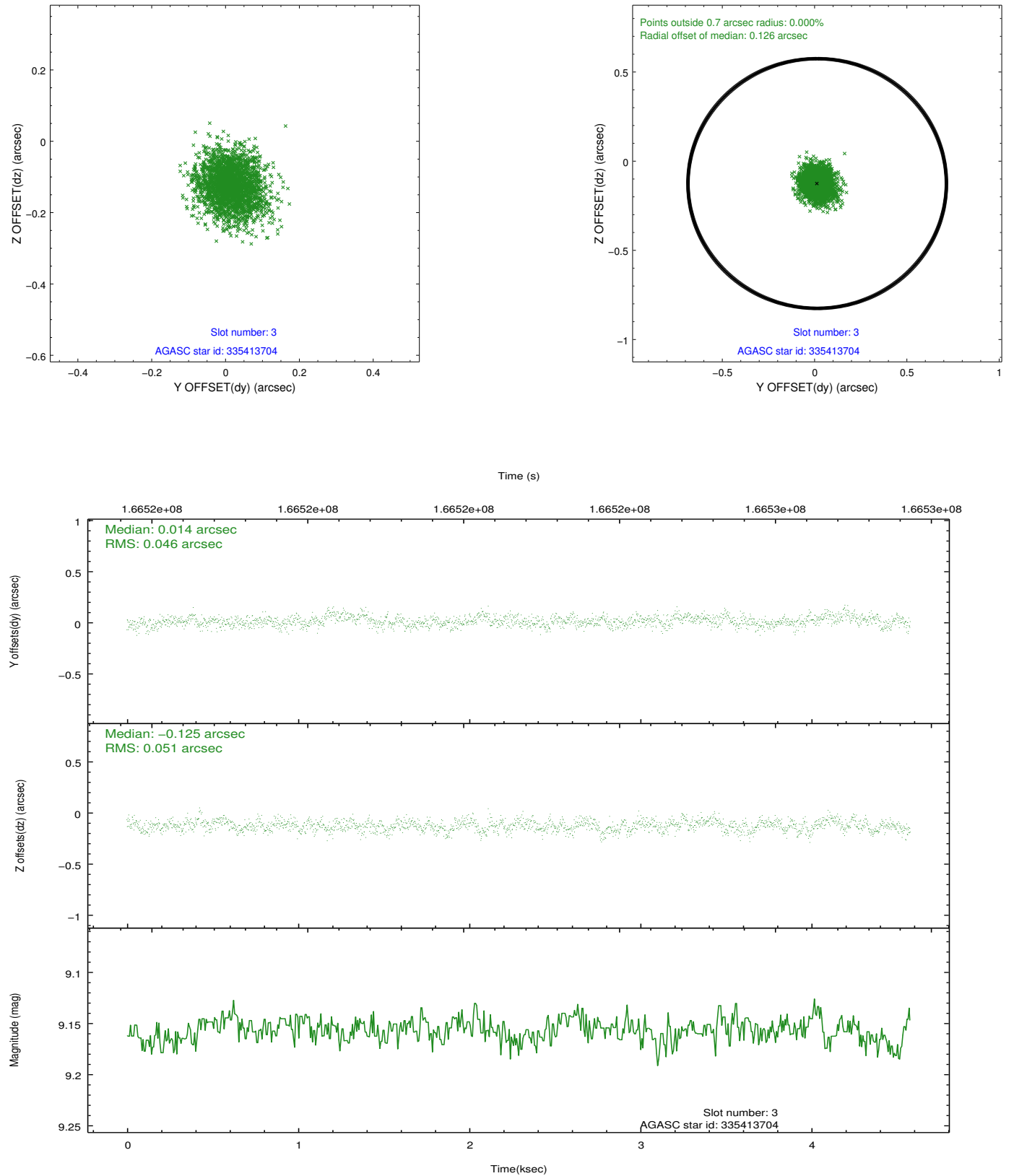


### Slot Statistics

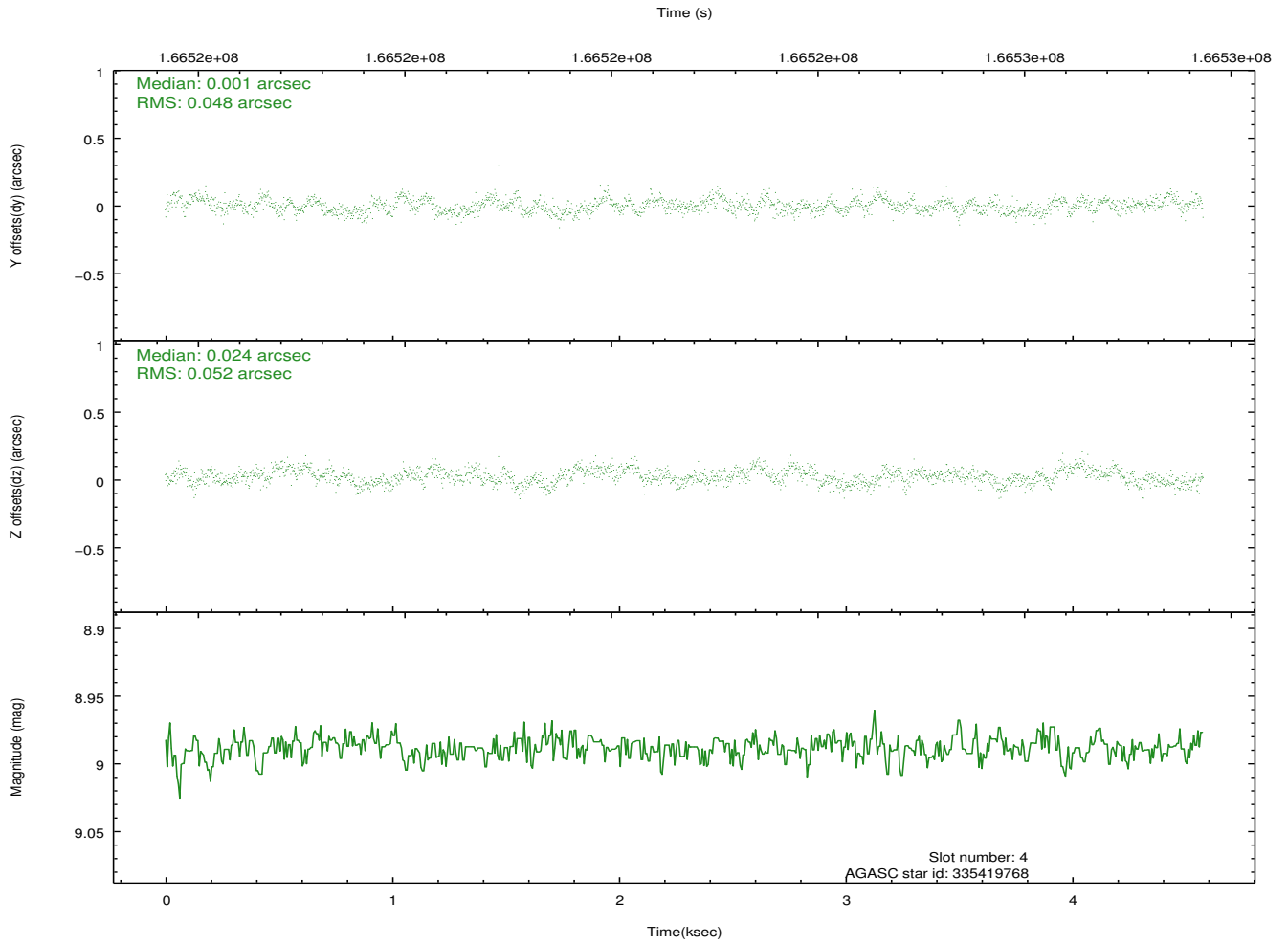
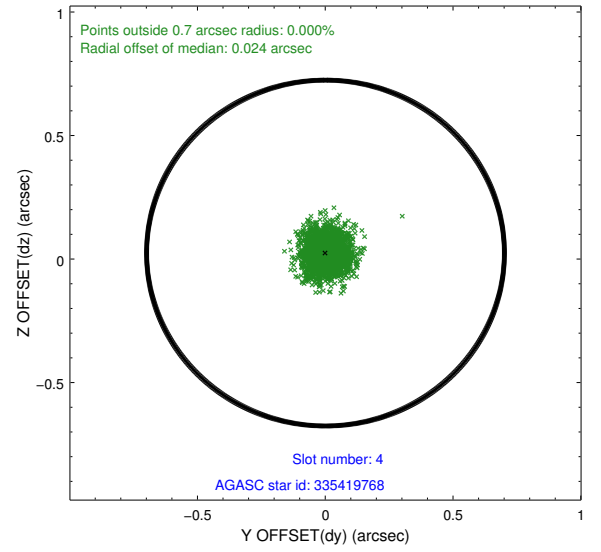
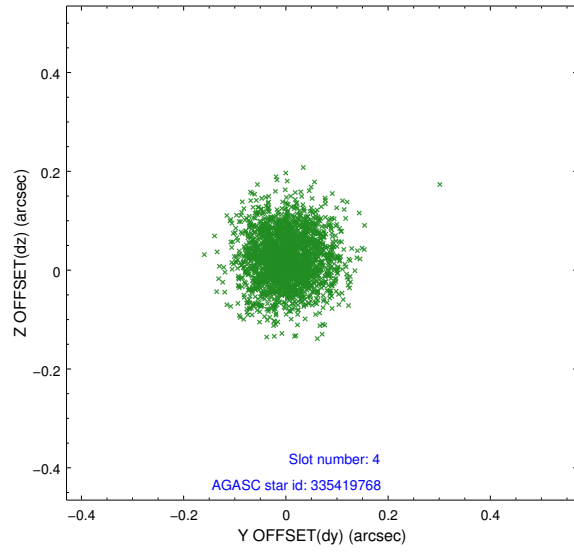
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1117	-0.052	0.002	0.007	0.011	0.000000	0.000000	-754.59	-1727.43
1	FID	ACIS-S-4	7.20	1117	0.001	0.024	0.006	0.011	0.000000	0.000000	2158.09	179.75
2	FID	ACIS-S-5	7.24	1117	0.019	-0.018	0.007	0.011	0.000000	0.000000	-1805.67	174.83
3	GUIDE	335413704	9.16	2234	0.014	-0.125	0.073	0.120	217.443182	36.847921	691.78	213.07
4	GUIDE	335419768	8.99	2233	0.001	0.024	0.075	0.123	218.616802	37.055947	-2105.60	-1820.00
5	GUIDE	335420408	8.11	2234	0.066	0.106	0.051	0.085	217.531011	37.144309	879.02	-867.72
6	GUIDE	335421608	9.19	2234	-0.040	0.017	0.104	0.163	217.691874	36.359353	-661.79	1545.69
7	GUIDE	335414200	8.31	2233	-0.046	-0.024	0.069	0.106	218.557202	37.138861	-1829.03	-2023.34

## 2.4 Star Slots

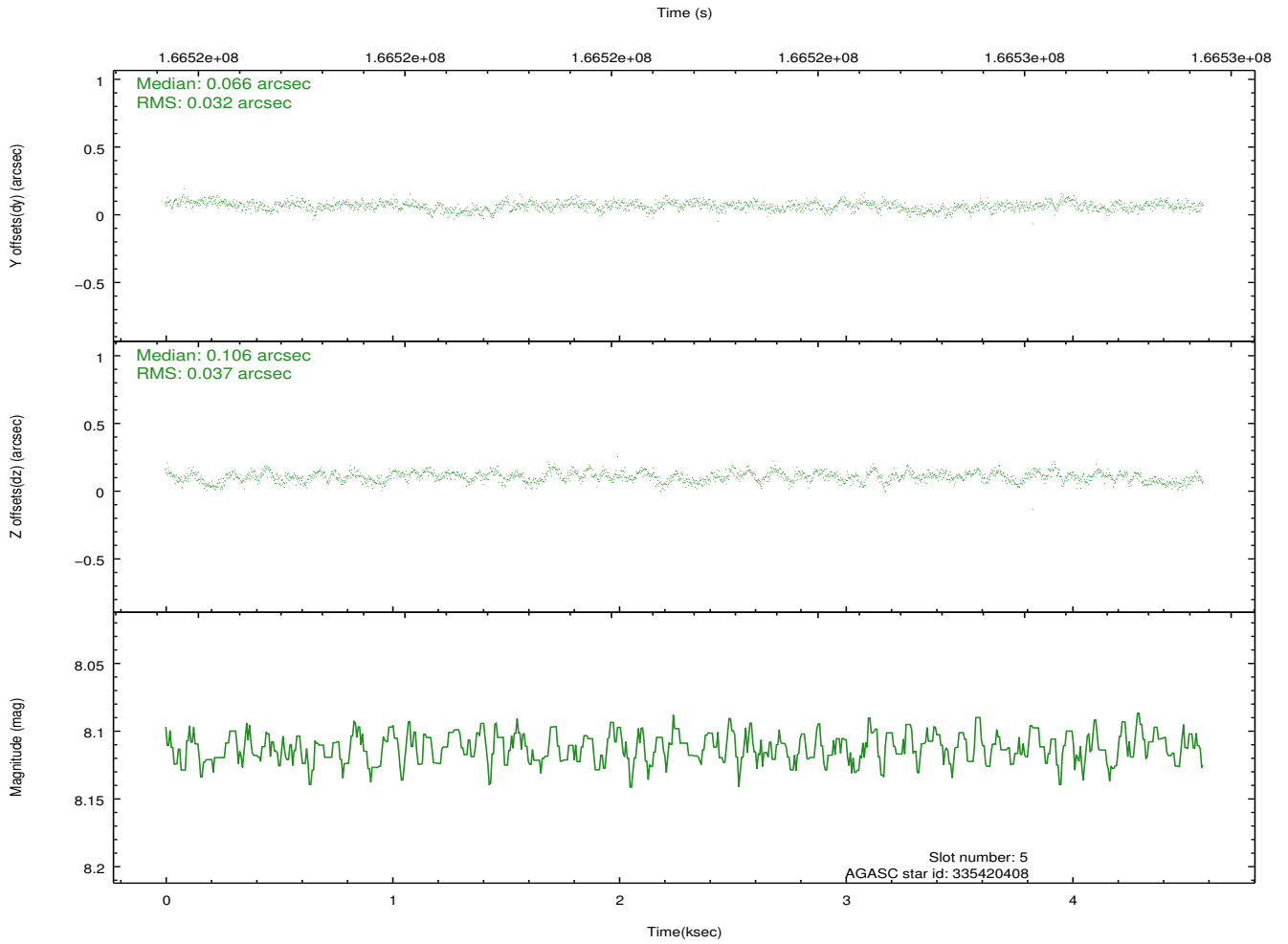
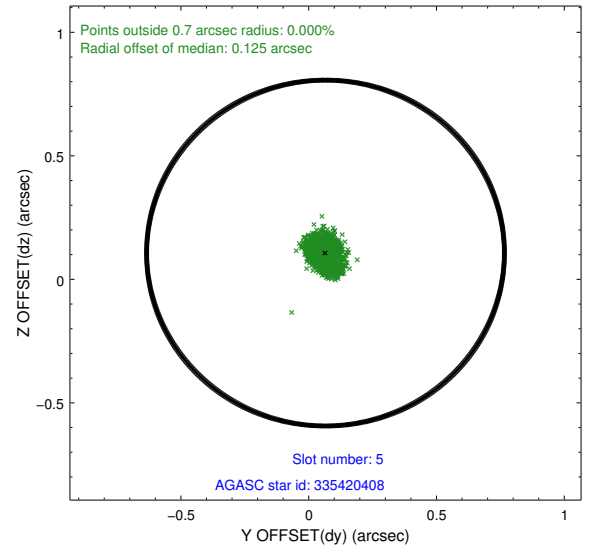
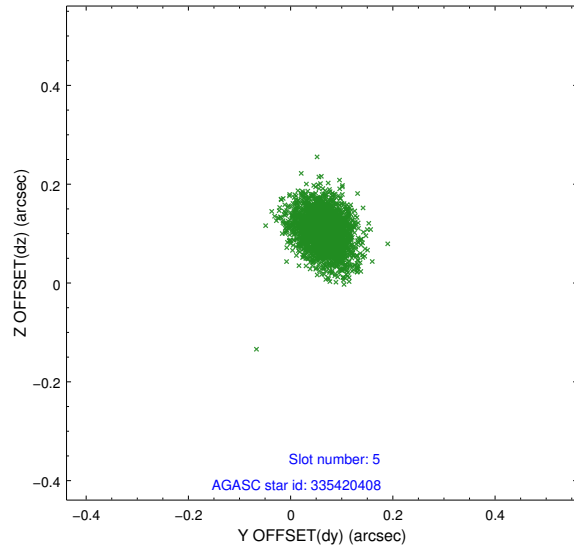
### 2.4.1 Slot 3



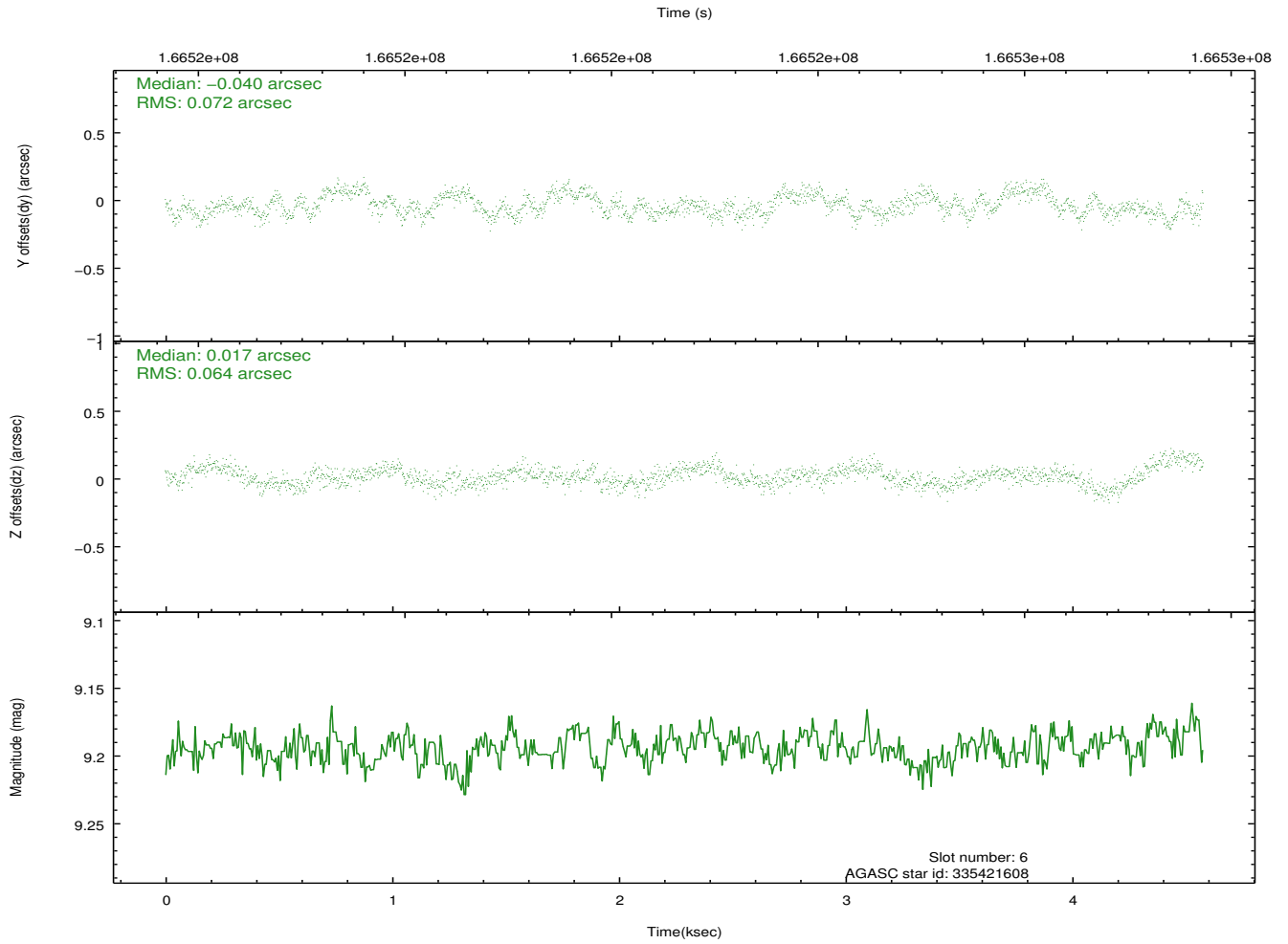
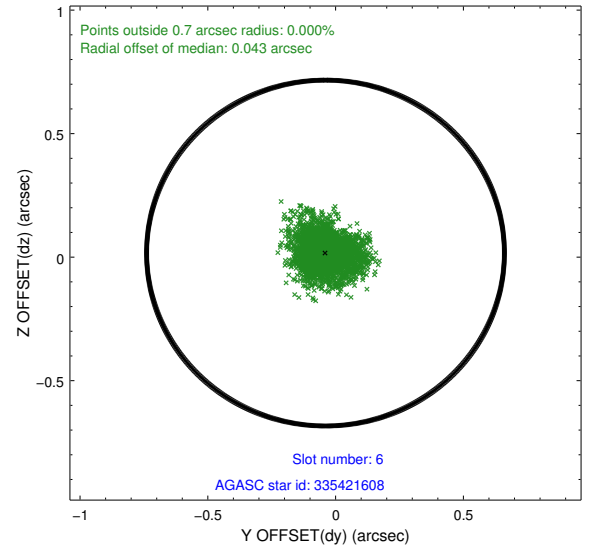
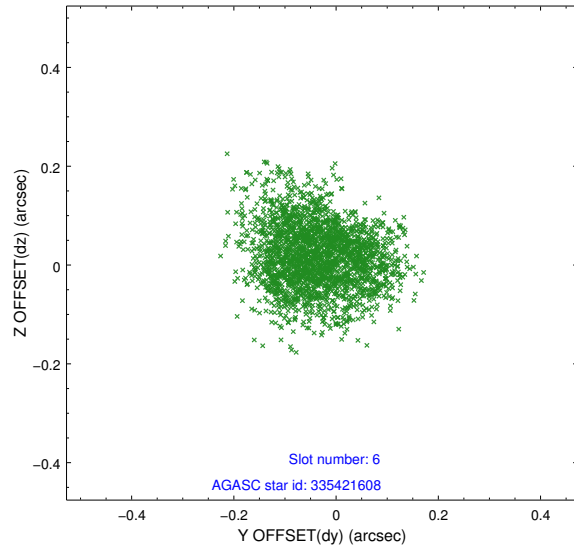
## 2.4.2 Slot 4



### 2.4.3 Slot 5

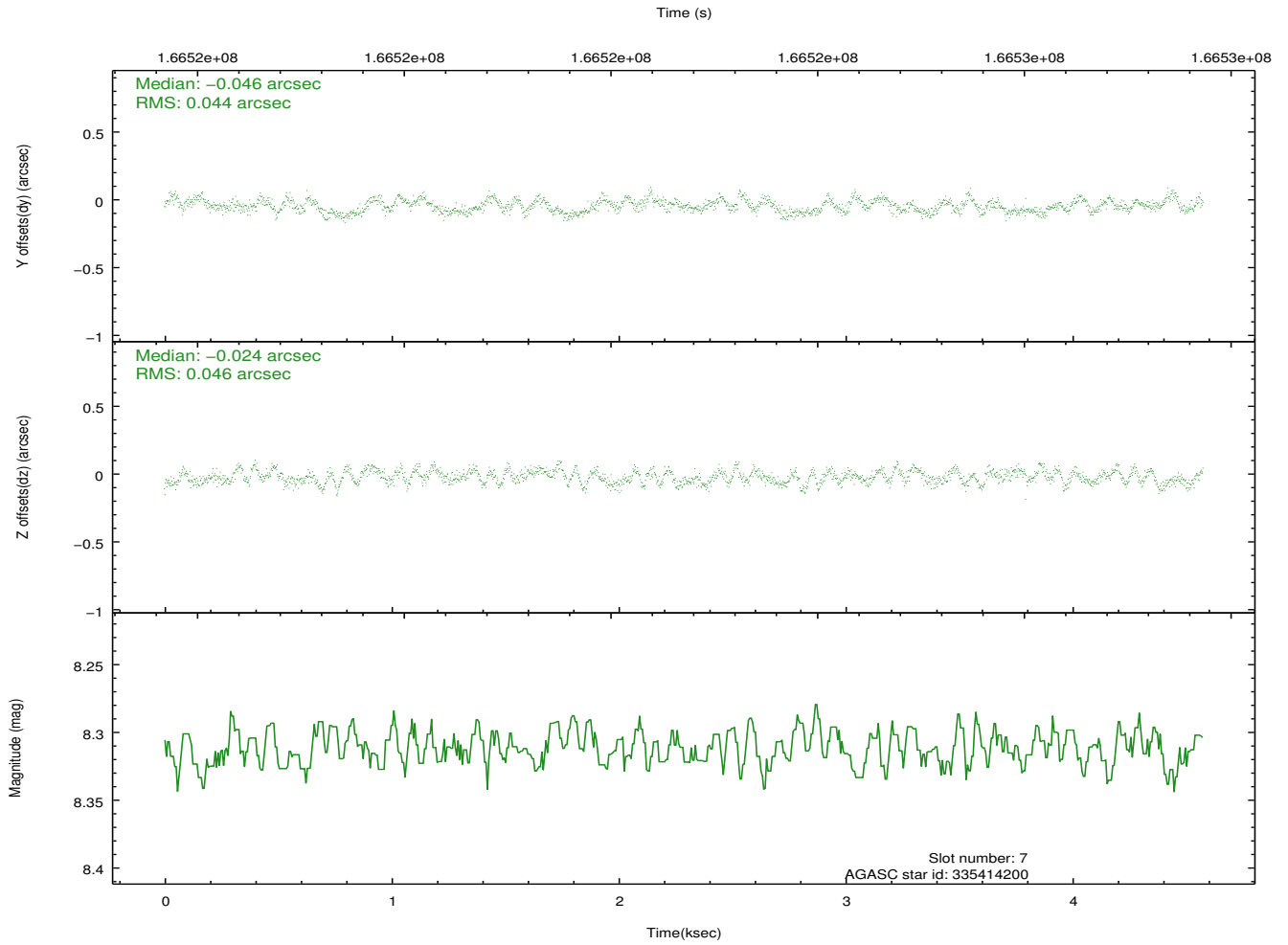
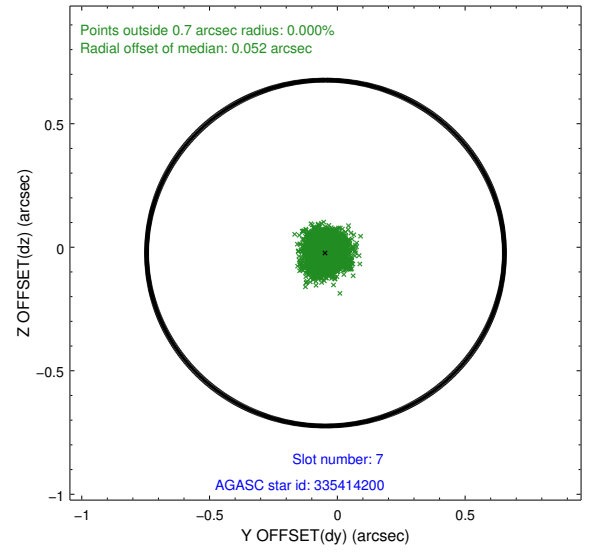
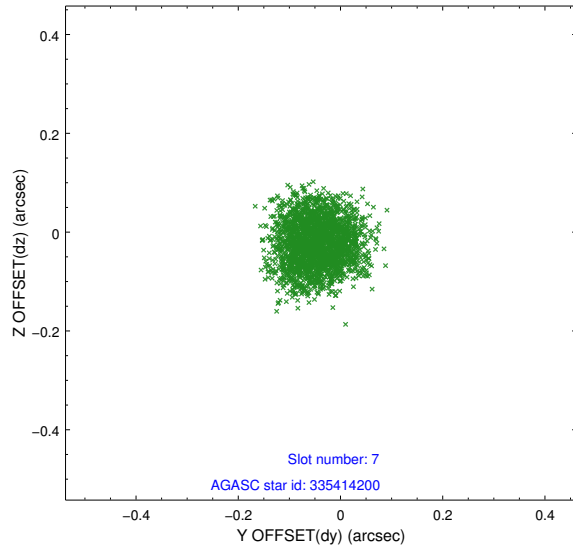


## 2.4.4 Slot 6



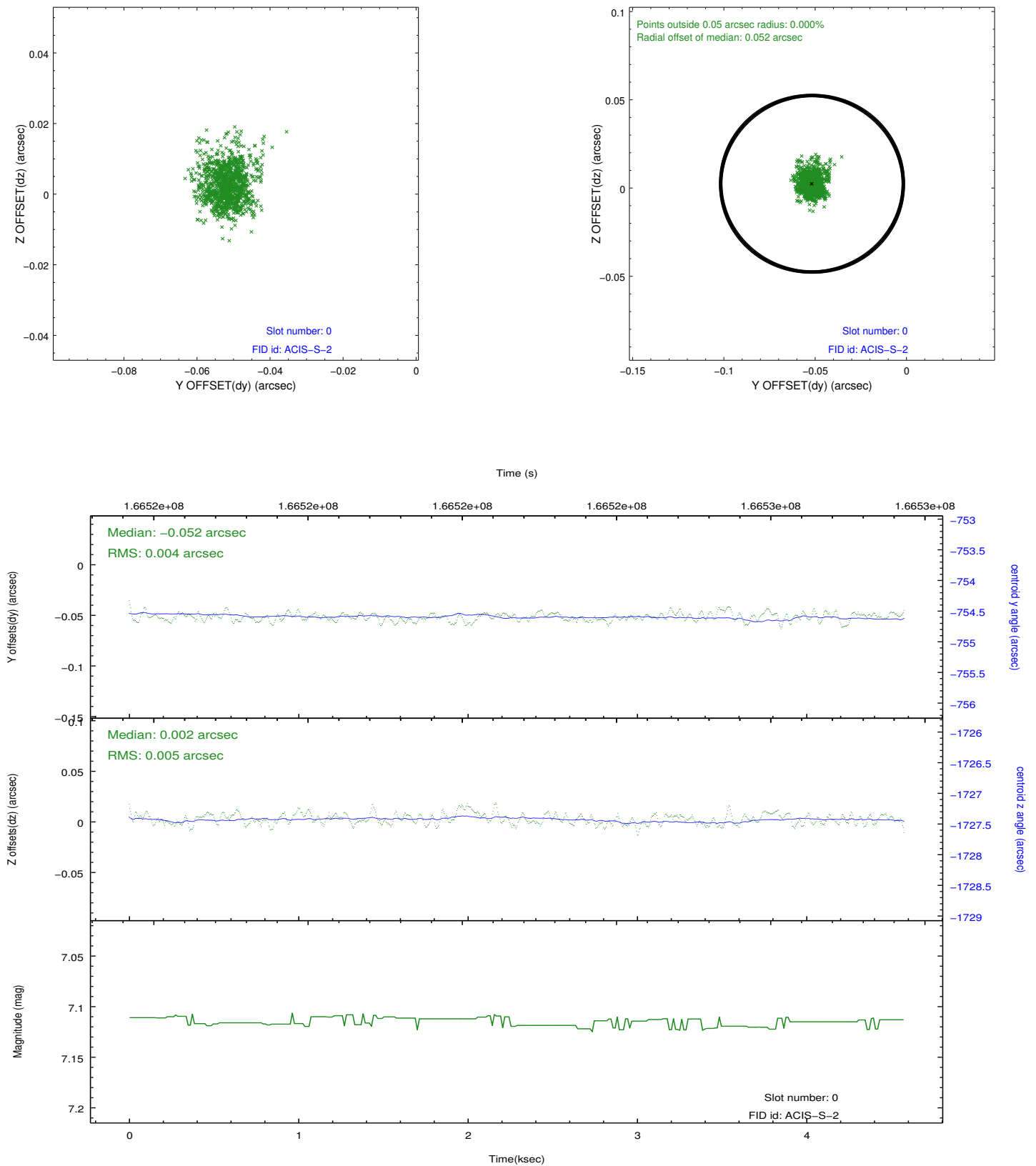


## 2.4.5 Slot 7

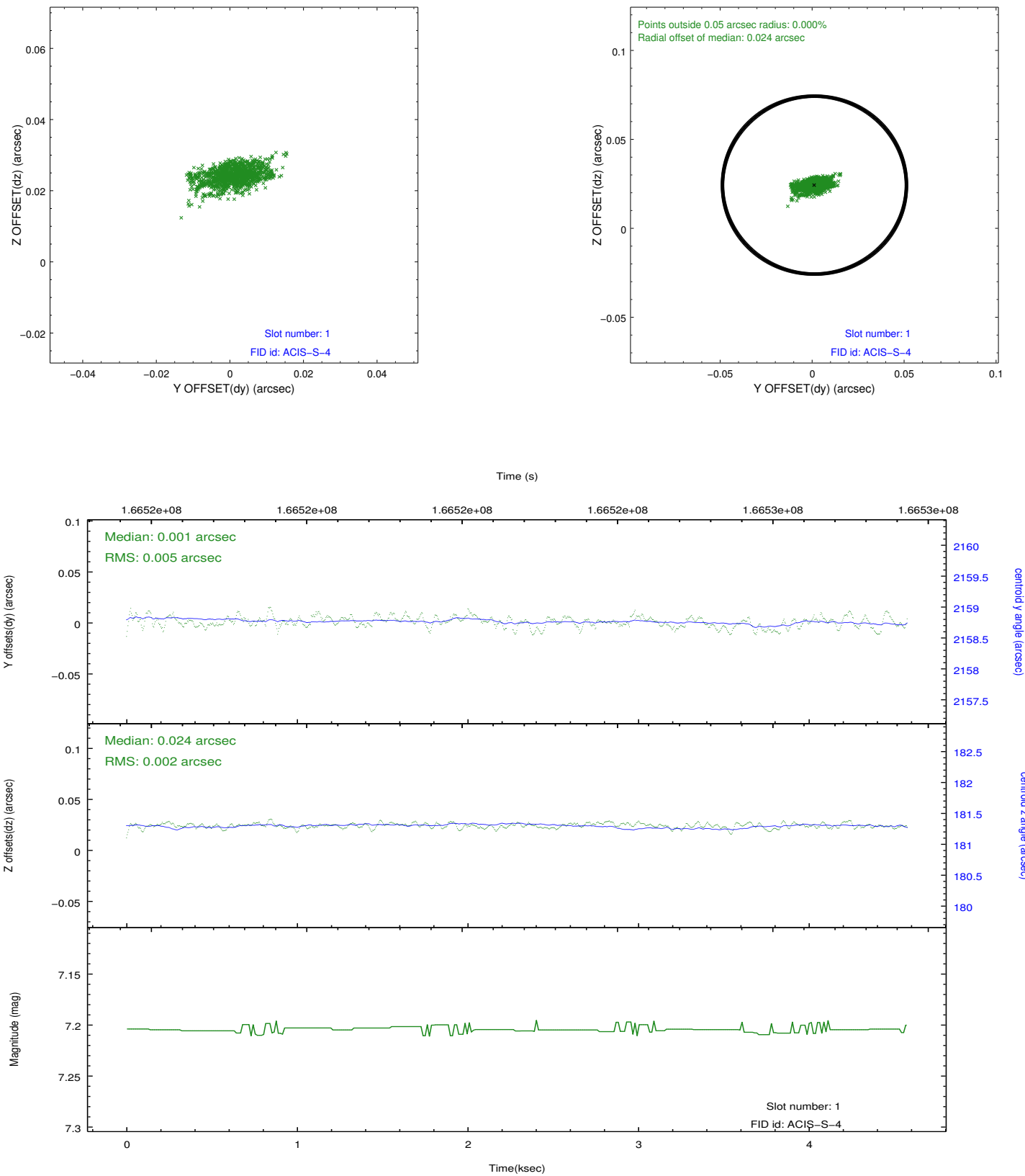


## 2.5 FID Slots

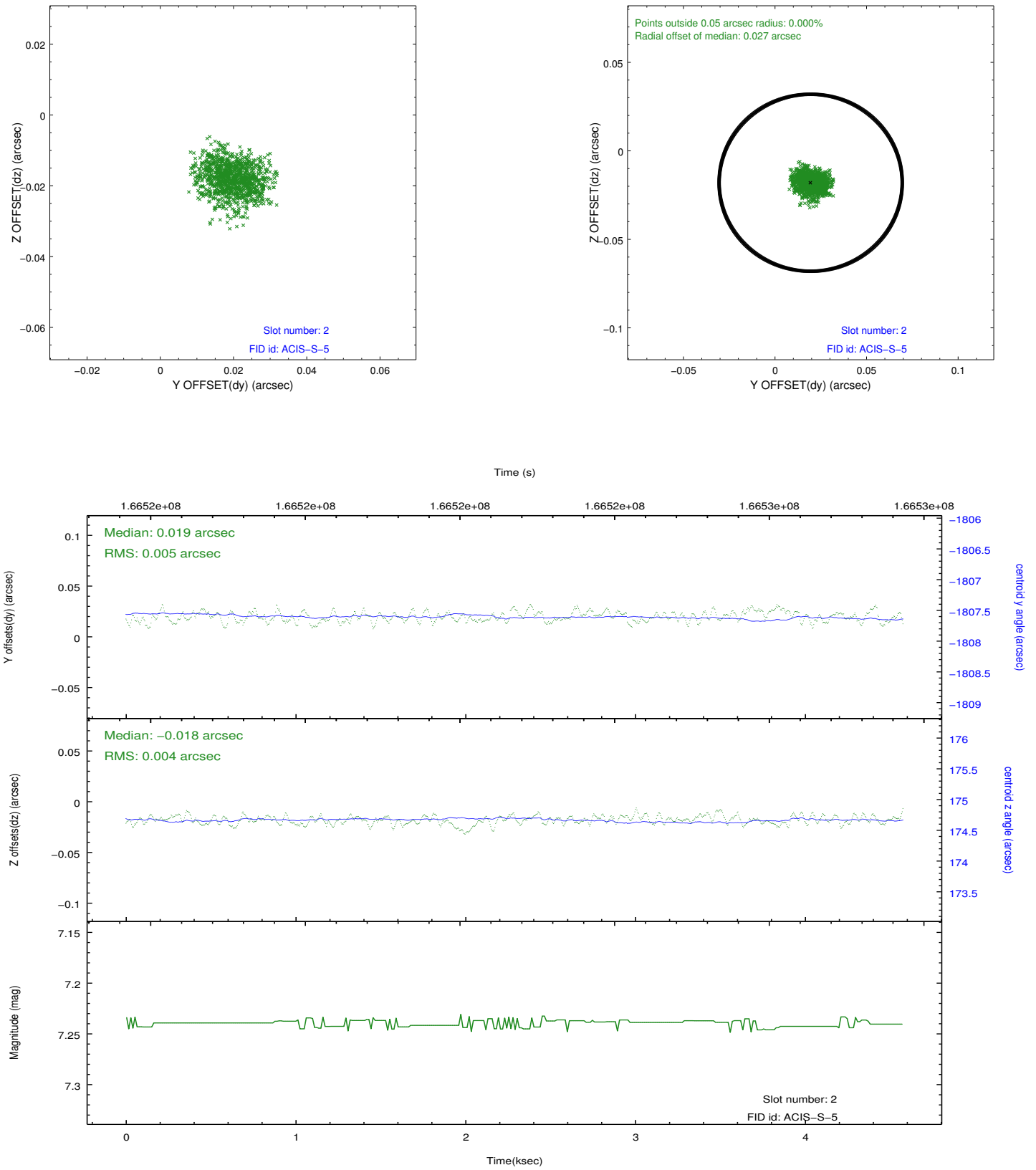
### 2.5.1 Slot 0



## 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)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.977

### **A.2 Comments**