

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2116 - L2 Version 3  
Chandra X-Ray Center

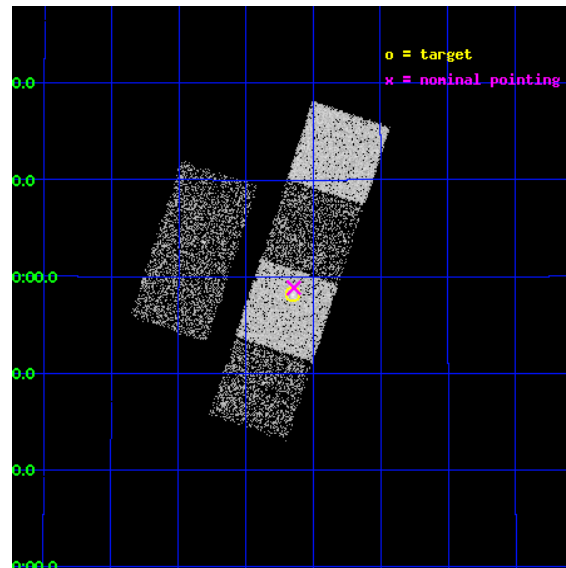
L2 Processing Date : Sep 21 2012

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# 1 Front

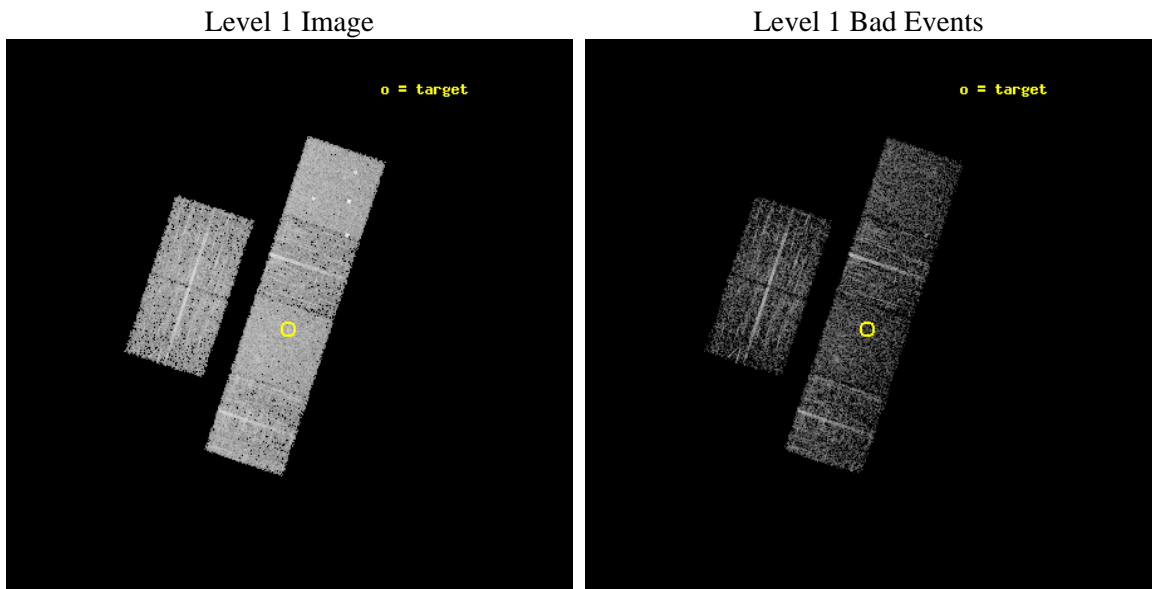
seq_num	700306	Sequence number
obs_id	2116	Observation id
title	UNDERSTANDING THE NATURE OF ROSAT BFS	Proposal title
observer	DR. ILARIA CAGNONI	Principal investigator
object	1WGA_J0221.1+1958	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.2875	Observer's specified target RA [deg]
dec_targ	19.970917	Observer's specified target Dec [deg]
ra_nom	35.285935957034	Nominal RA [deg]
dec_nom	19.980781101181	Nominal Dec [deg]
roll_nom	108.35180153602	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2949.1020241678	Sum of GTIs [s]
livetime	2911.7587186017	Livetime [s]
ontime2	2949.1430641711	Sum of GTIs [s]
ontime3	2945.7379240096	Sum of GTIs [s]
ontime5	2949.0609841645	Sum of GTIs [s]
ontime6	2949.0199441761	Sum of GTIs [s]
ontime7	2949.1020241678	Sum of GTIs [s]
ontime8	2948.9378641695	Sum of GTIs [s]
l2events	30127	Number of level 2 events



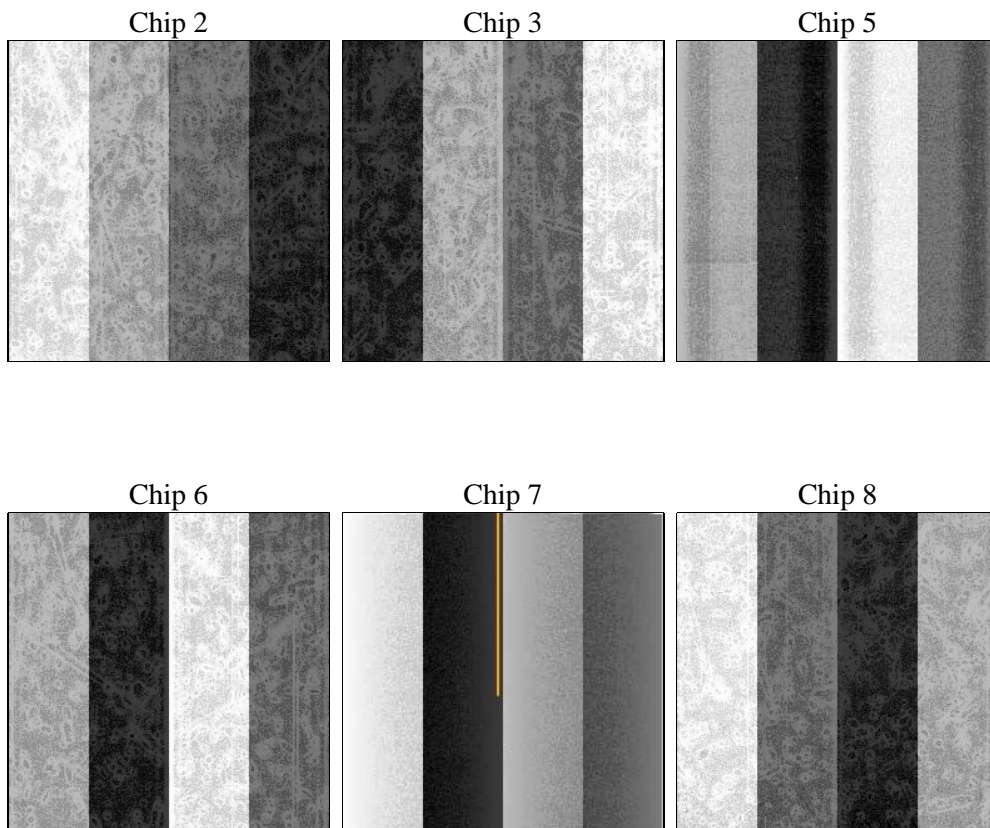
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2949.1020241678	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	2949.1430641711	Sum of GTIs [s]
date	2012-09-21T08:51:17	Date and time of file creation	ontime3	2945.7379240096	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	2949.0609841645	Sum of GTIs [s]
			ontime6	2949.0199441761	Sum of GTIs [s]
			ontime7	2949.1020241678	Sum of GTIs [s]
			ontime8	2948.9378641695	Sum of GTIs [s]
			l1events	139501	Number of level 1 events

### 2.1.4 Events

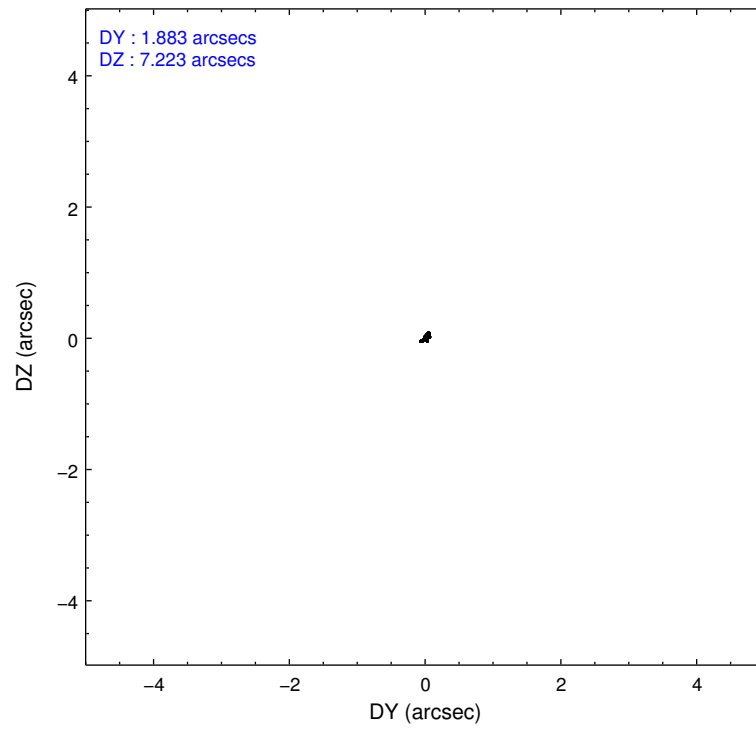
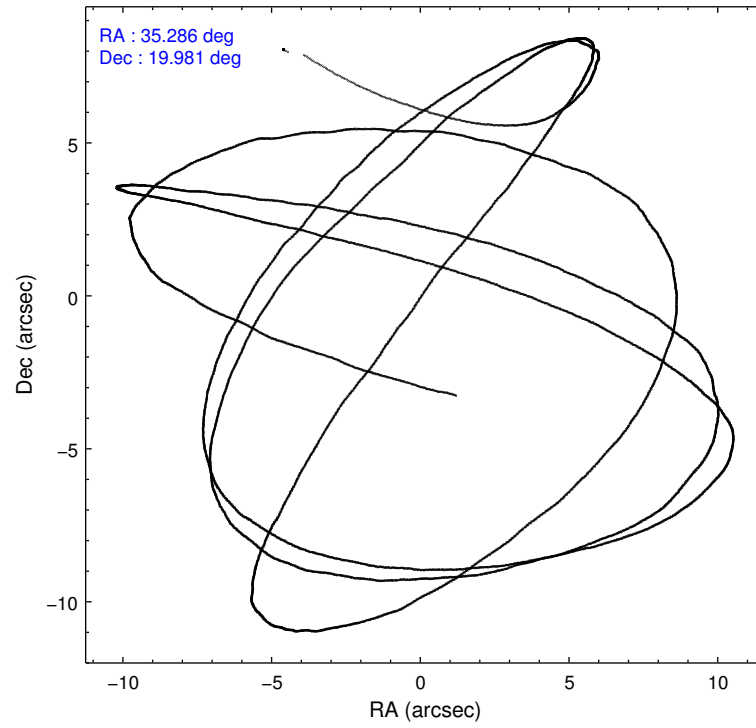
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21022	19815	28838	20913	25811	23102	grade 0 events	966	898	2026	885	1074	1488
rejected events	18737	17653	15413	18648	14915	18686		4%	4%	7%	4%	4%	6%
rejected %	89%	89%	53%	89%	57%	80%	grade 1 events	10	10	99	11	16	10
								0%	0%	0%	0%	0%	0%
							grade 2 events	489	421	3644	464	2215	940
								2%	2%	12%	2%	8%	4%
							grade 3 events	203	250	601	221	1048	482
								0%	1%	2%	1%	4%	2%
							grade 4 events	221	220	577	258	1005	408
								1%	1%	2%	1%	3%	1%
							grade 5 events	719	781	2121	868	2434	1068
								3%	3%	7%	4%	9%	4%
							grade 6 events	410	374	6588	439	5565	1101
								1%	1%	22%	2%	21%	4%
							grade 7 events	18004	16861	13182	17767	12454	17605
								85%	85%	45%	84%	48%	76%

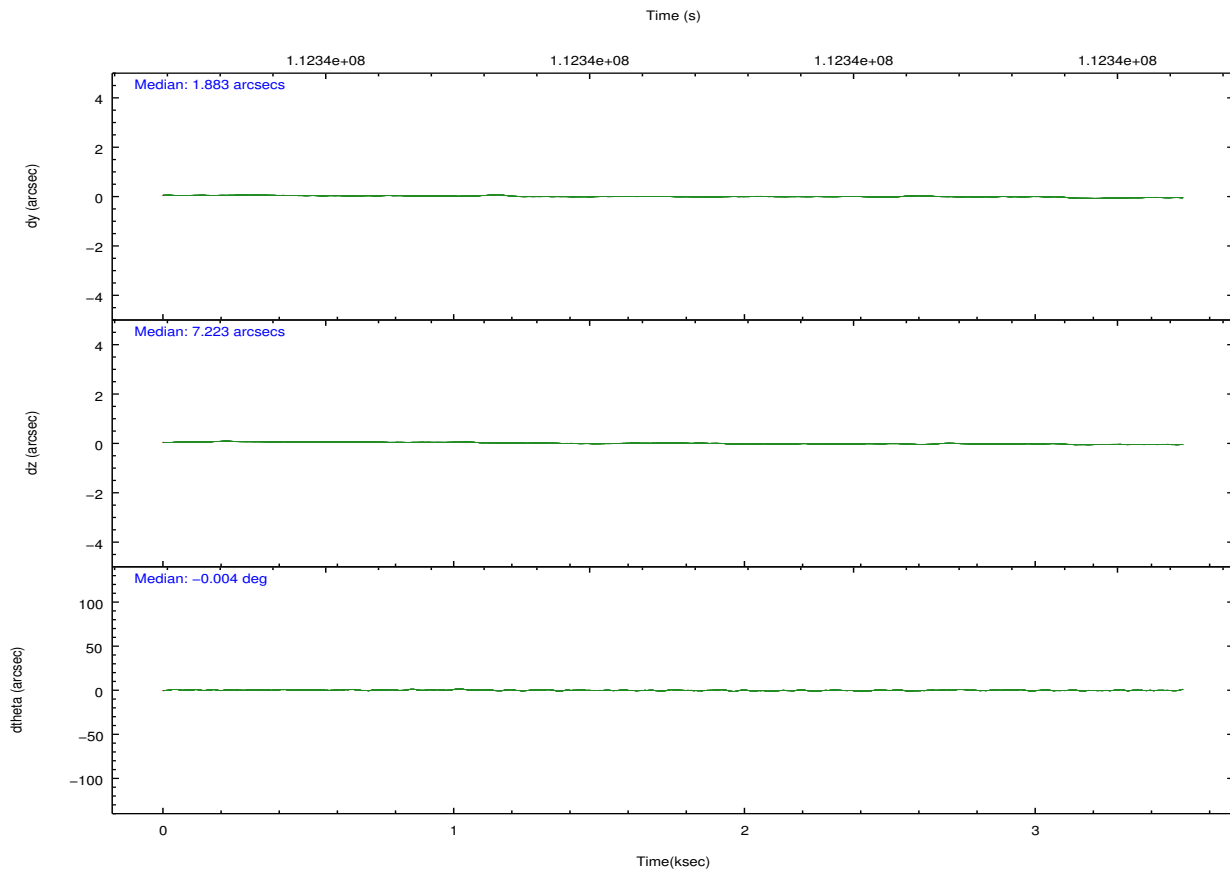
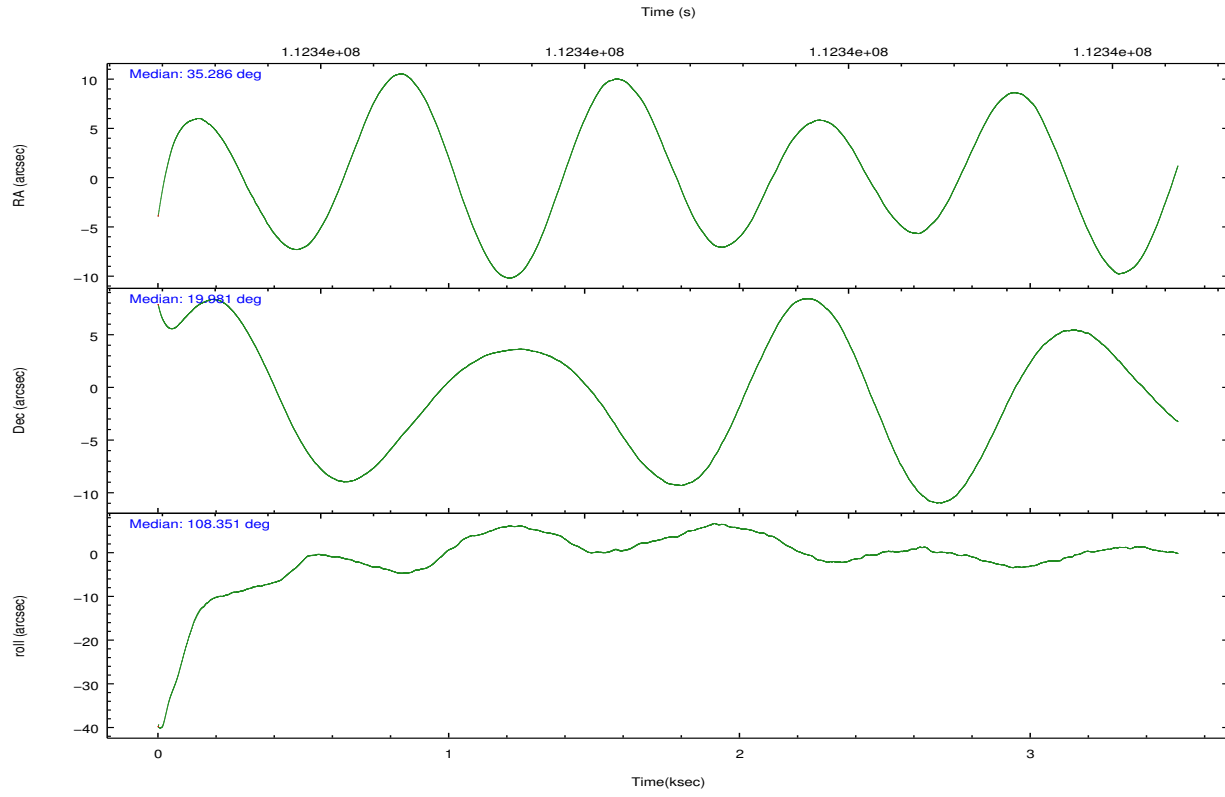


## 2.2 Compared Parameters

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	35.307928	35.28593595703425	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.962670	19.98078110118112	Alternating exposures requested	N	N
[deg] Pointing Roll	108.187780	108.3518015360171	[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)	112335069.184000	112333932.37244			
Observation start date	2001-07-24T04:10:05	2001-07-24T03:52:12			
[s] Observation end time (MET)	112338069.184000	112338600.73513			
Observation end date	2001-07-24T05:00:05	2001-07-24T05:10:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



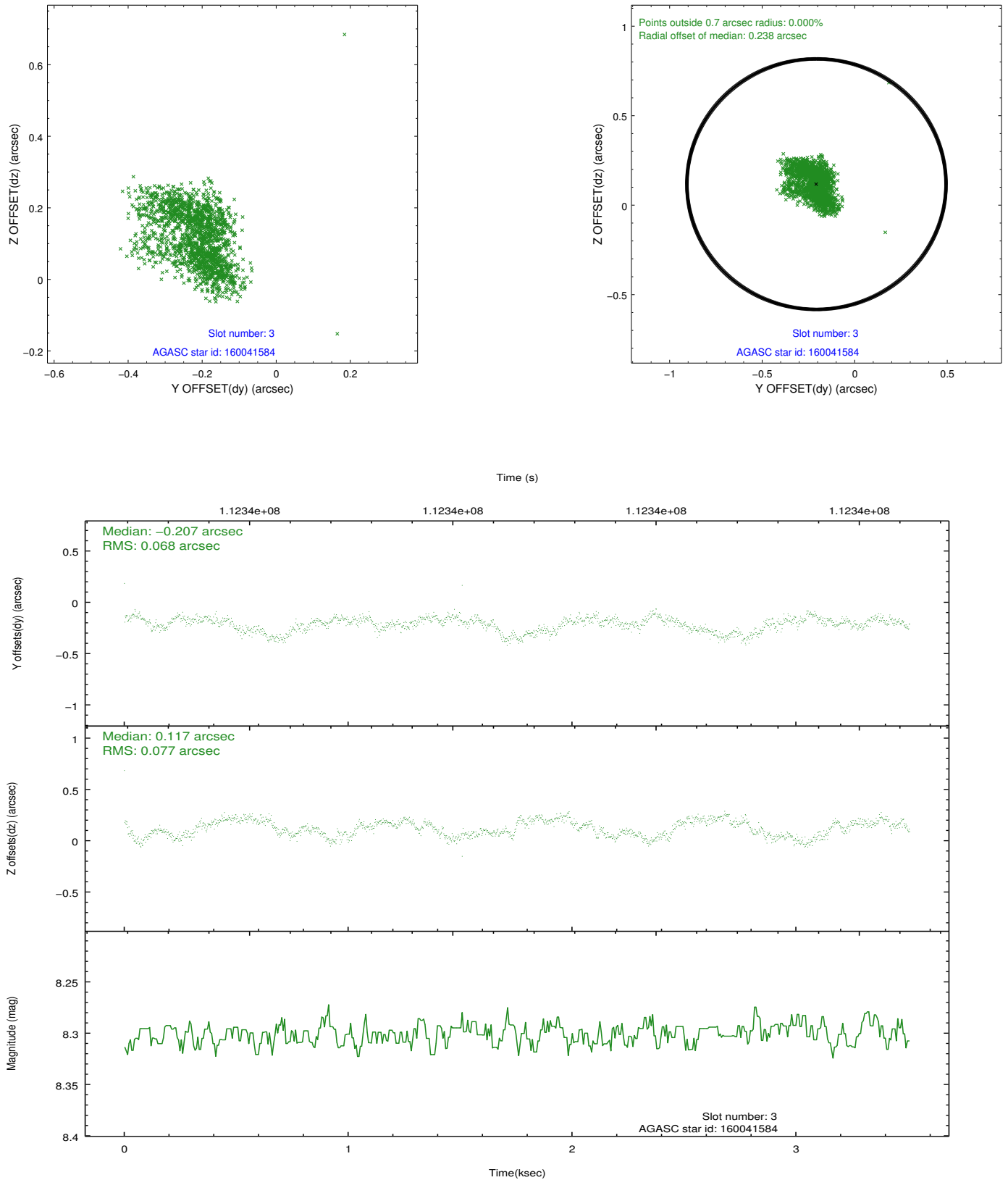


### Slot Statistics

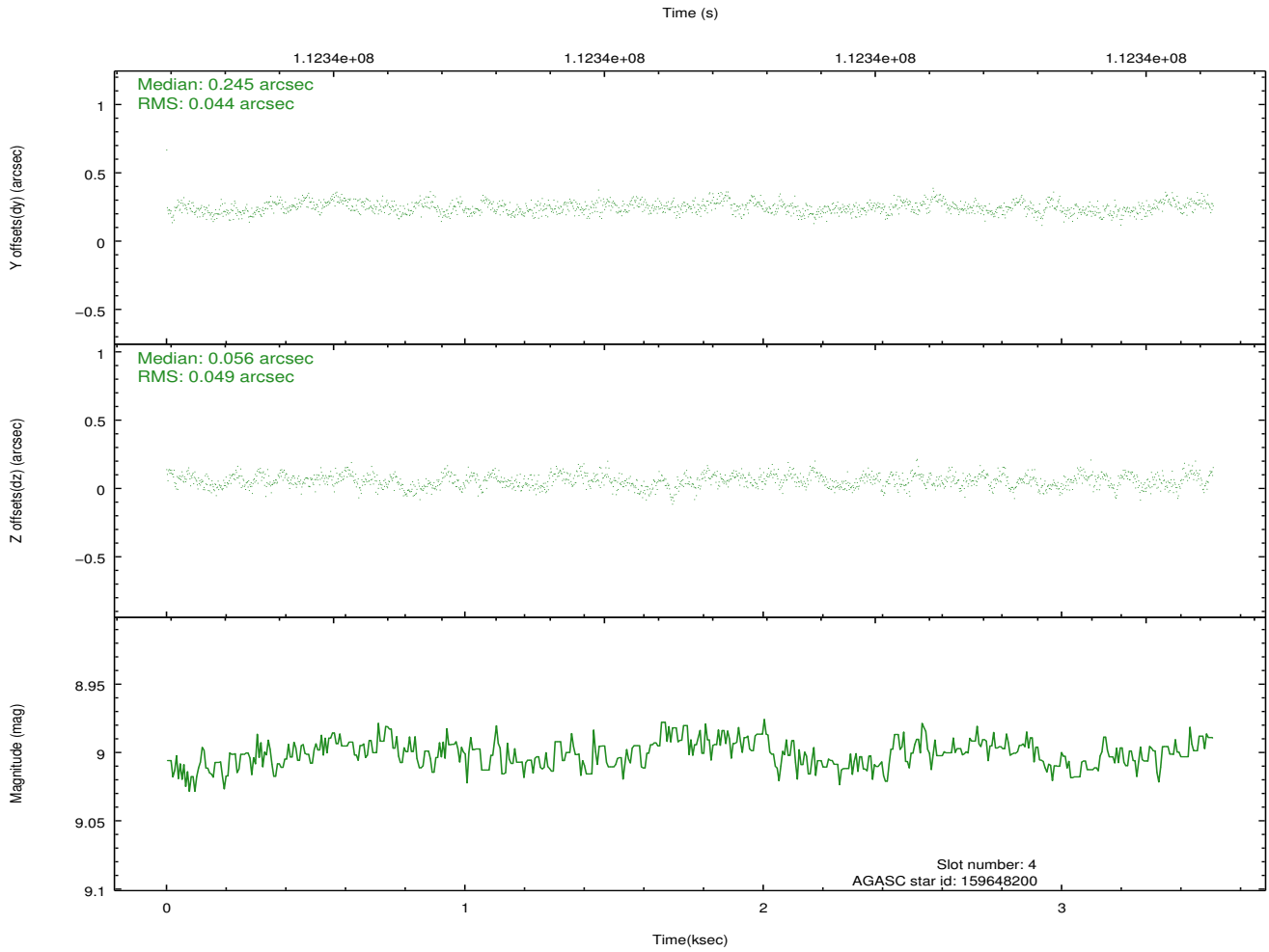
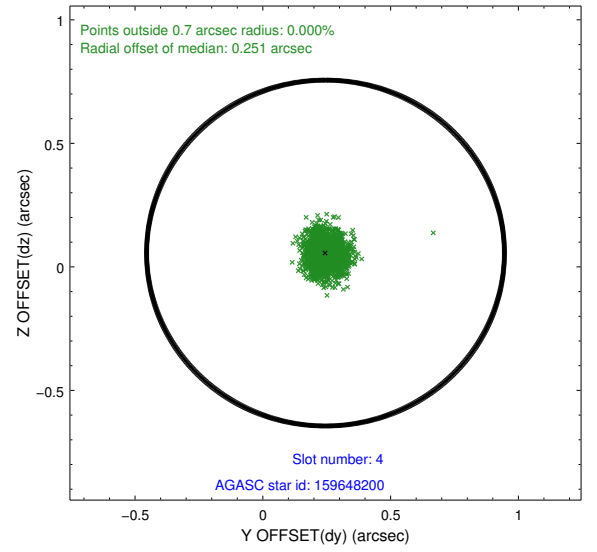
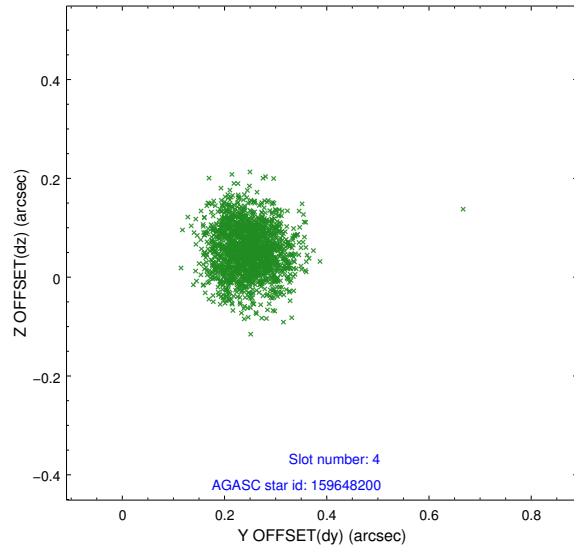
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	856	-0.013	0.006	0.006	0.010	0.000000	0.000000	-754.51	-1728.34
1	FID	ACIS-S-4	7.19	856	-0.065	0.005	0.005	0.009	0.000000	0.000000	2157.90	178.28
2	FID	ACIS-S-5	7.24	856	0.047	-0.002	0.006	0.010	0.000000	0.000000	-1804.98	173.99
3	GUIDE	160041584	8.30	1711	-0.207	0.117	0.109	0.172	35.520684	20.487368	1569.96	-1270.87
4	GUIDE	159648200	9.00	1711	0.245	0.056	0.070	0.111	35.884434	19.632064	-1737.46	-1487.18
5	GUIDE	160053080	9.99	1709	-0.146	-0.134	0.114	0.180	34.798803	20.315686	1744.27	1234.92
6	GUIDE	159657776	9.76	1712	0.169	0.094	0.088	0.140	35.413458	19.775258	-752.18	-127.92
7	GUIDE	160040824	9.15	1711	-0.050	-0.131	0.095	0.145	35.134919	20.124635	735.35	373.69

## 2.4 Star Slots

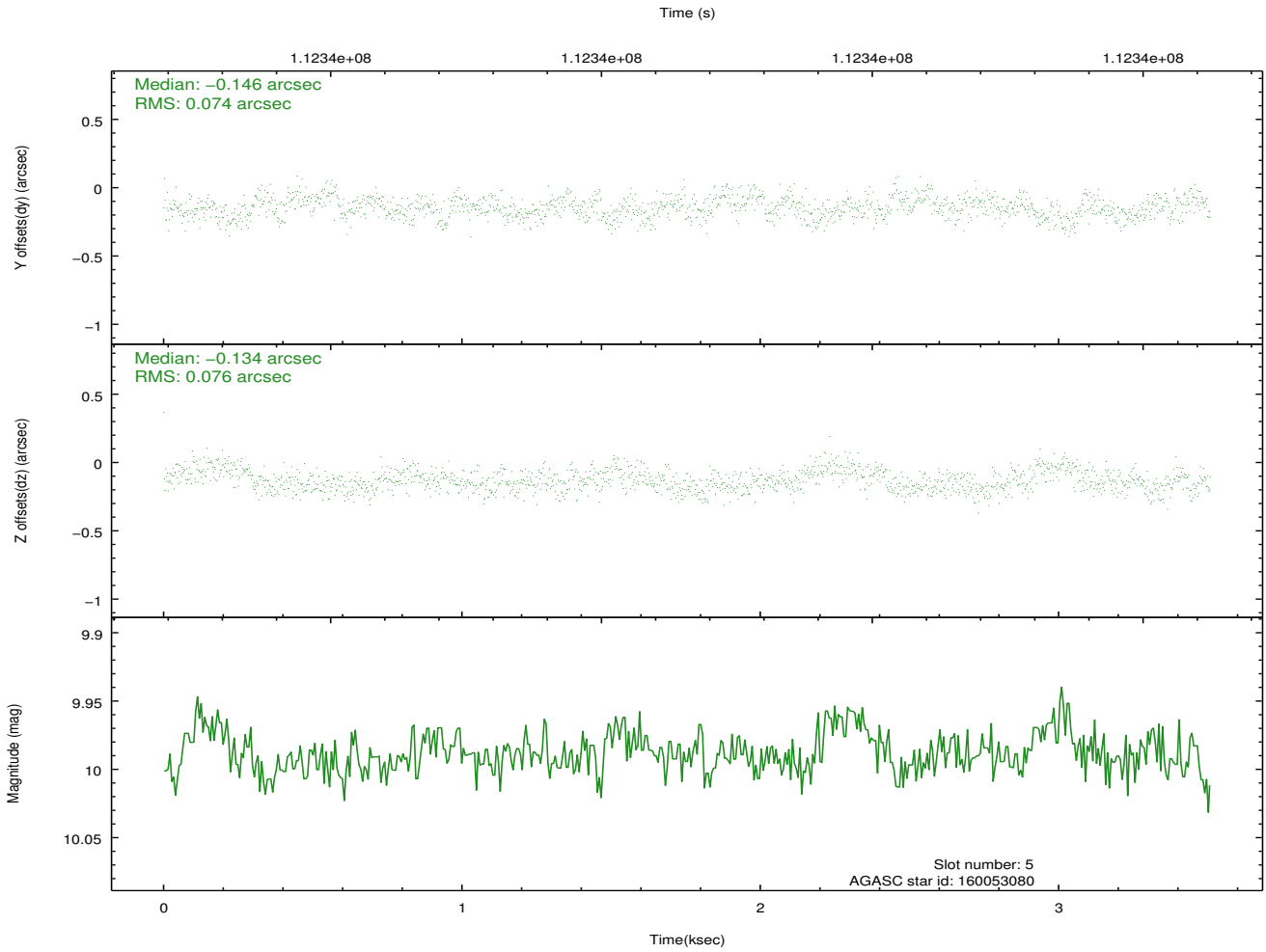
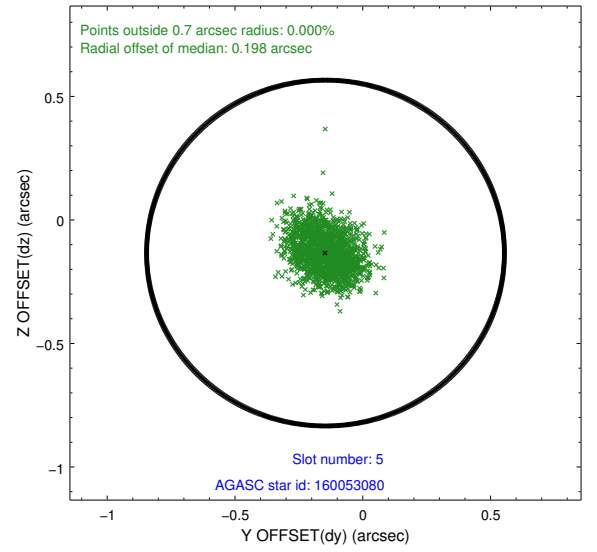
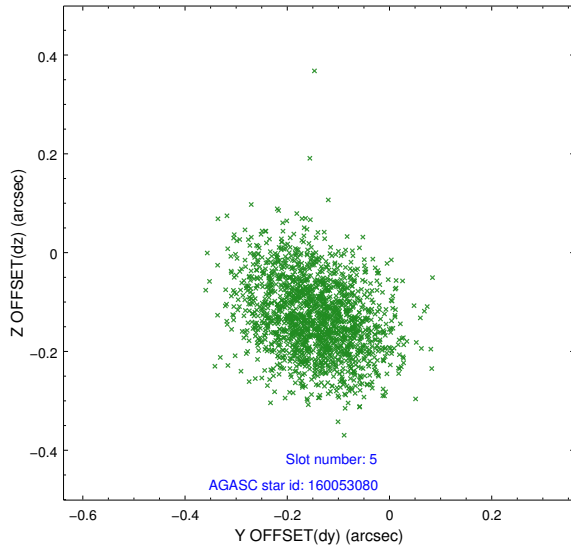
### 2.4.1 Slot 3



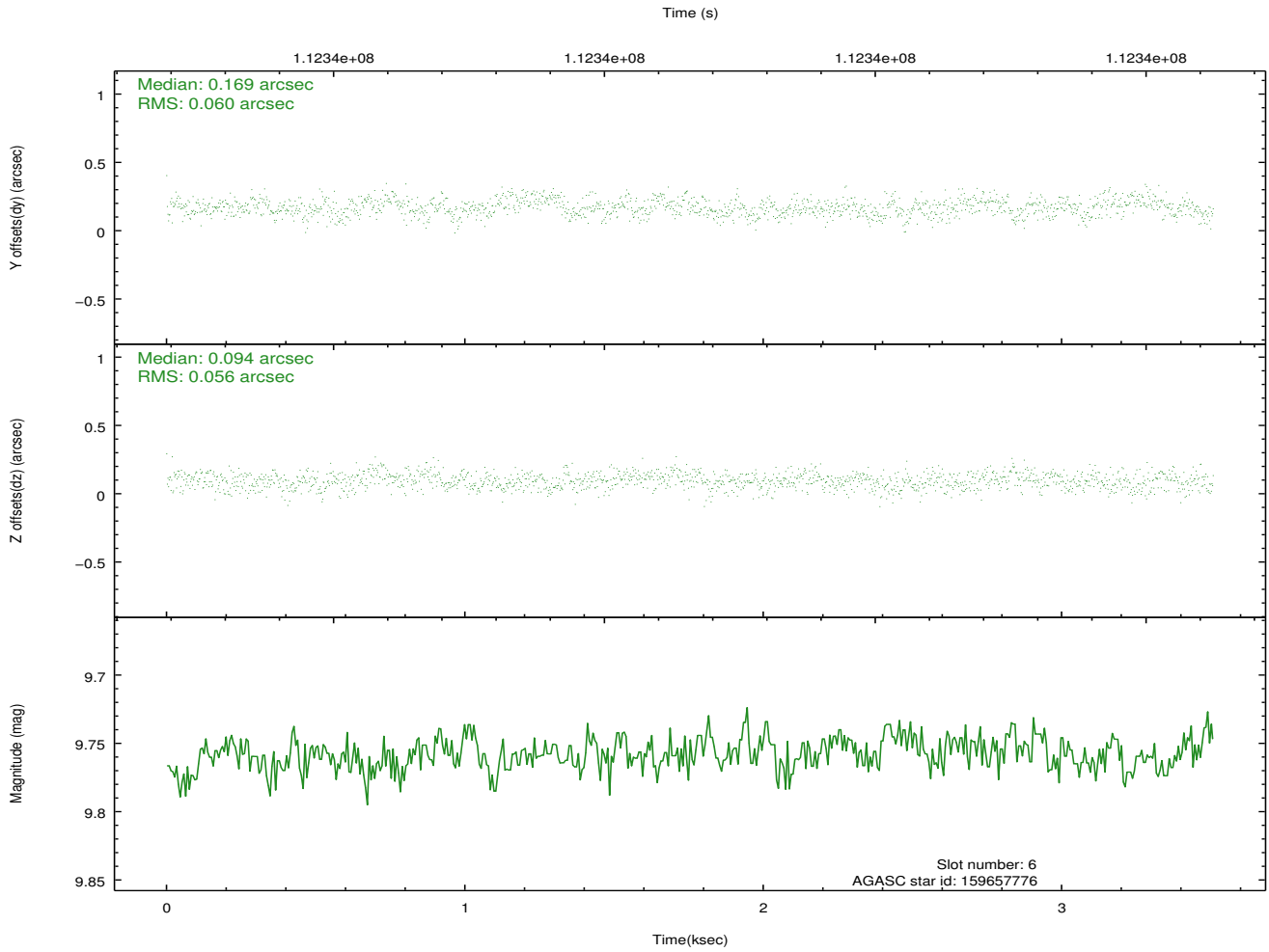
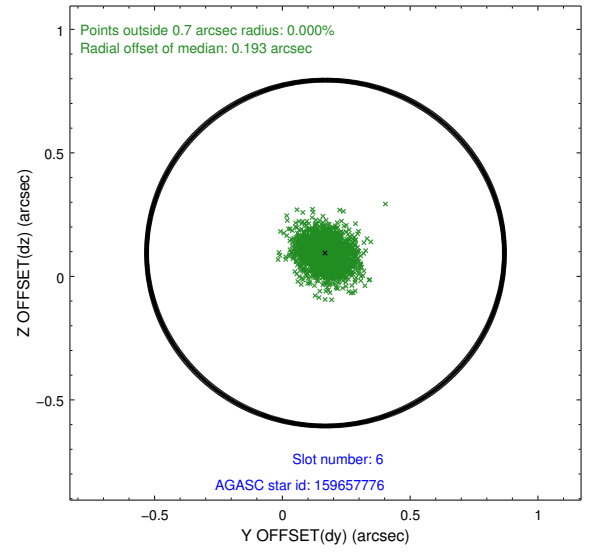
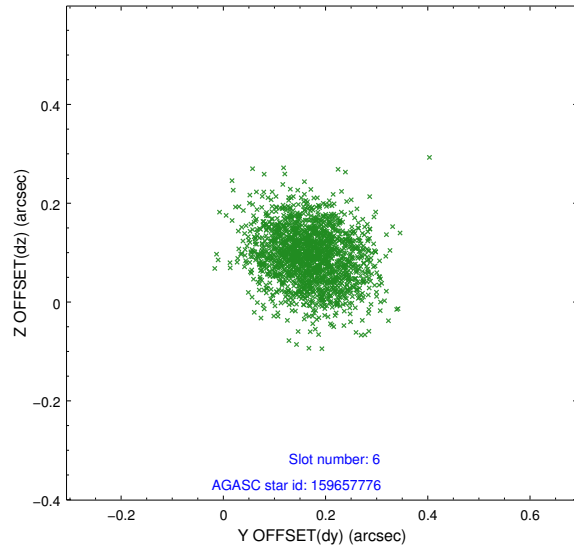
## 2.4.2 Slot 4



### 2.4.3 Slot 5

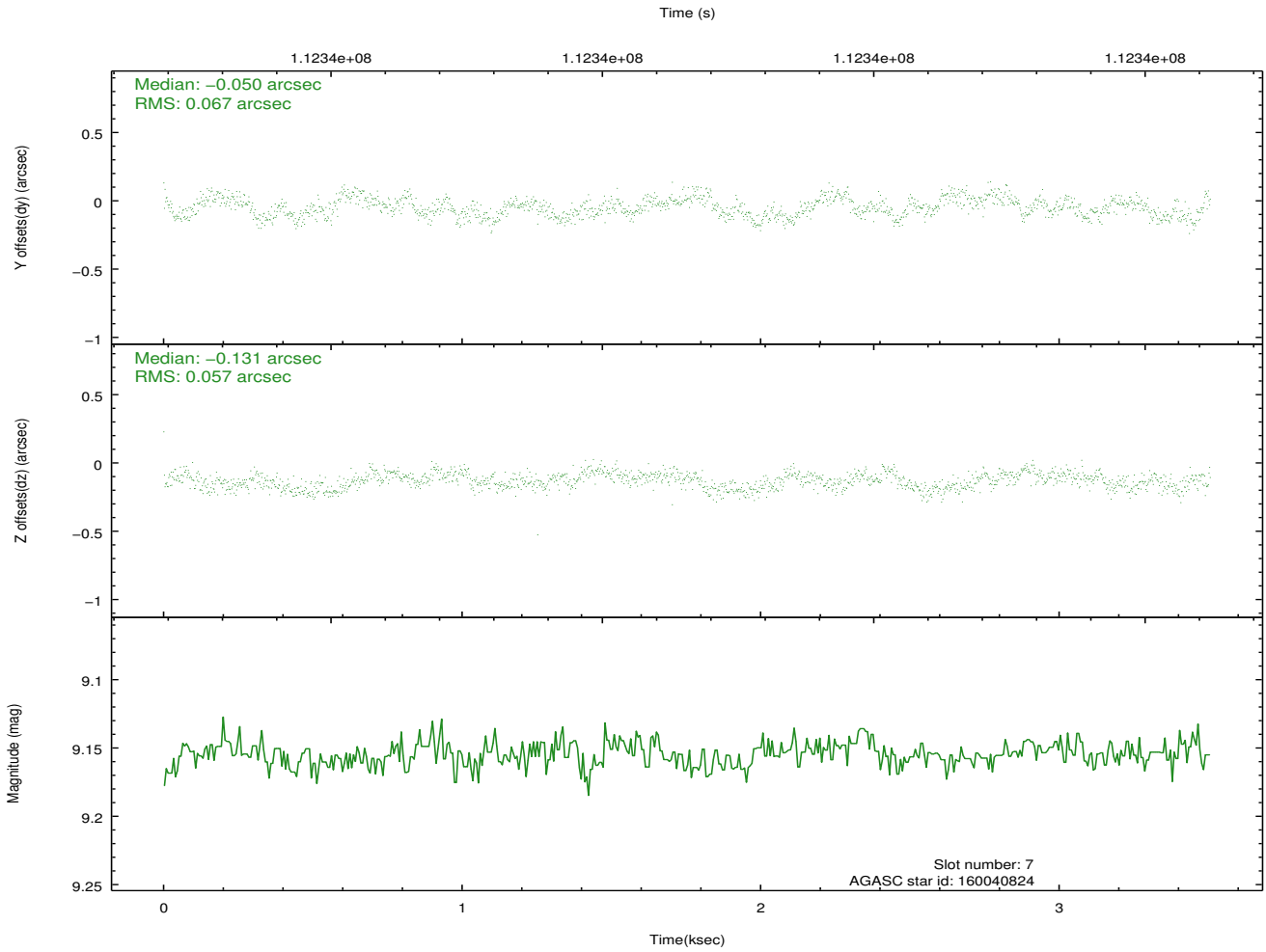
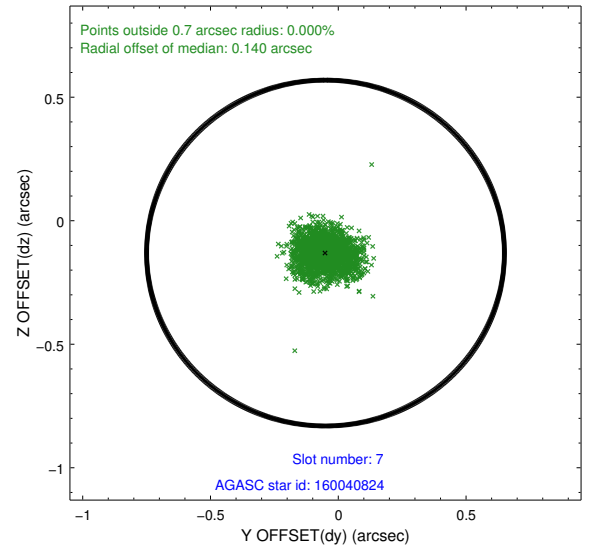
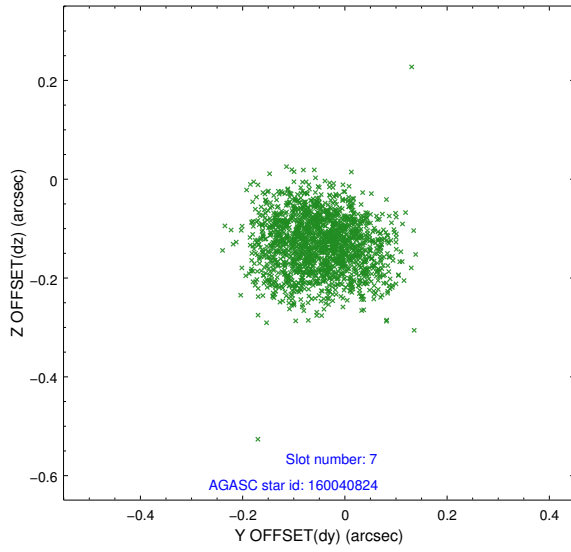


## 2.4.4 Slot 6



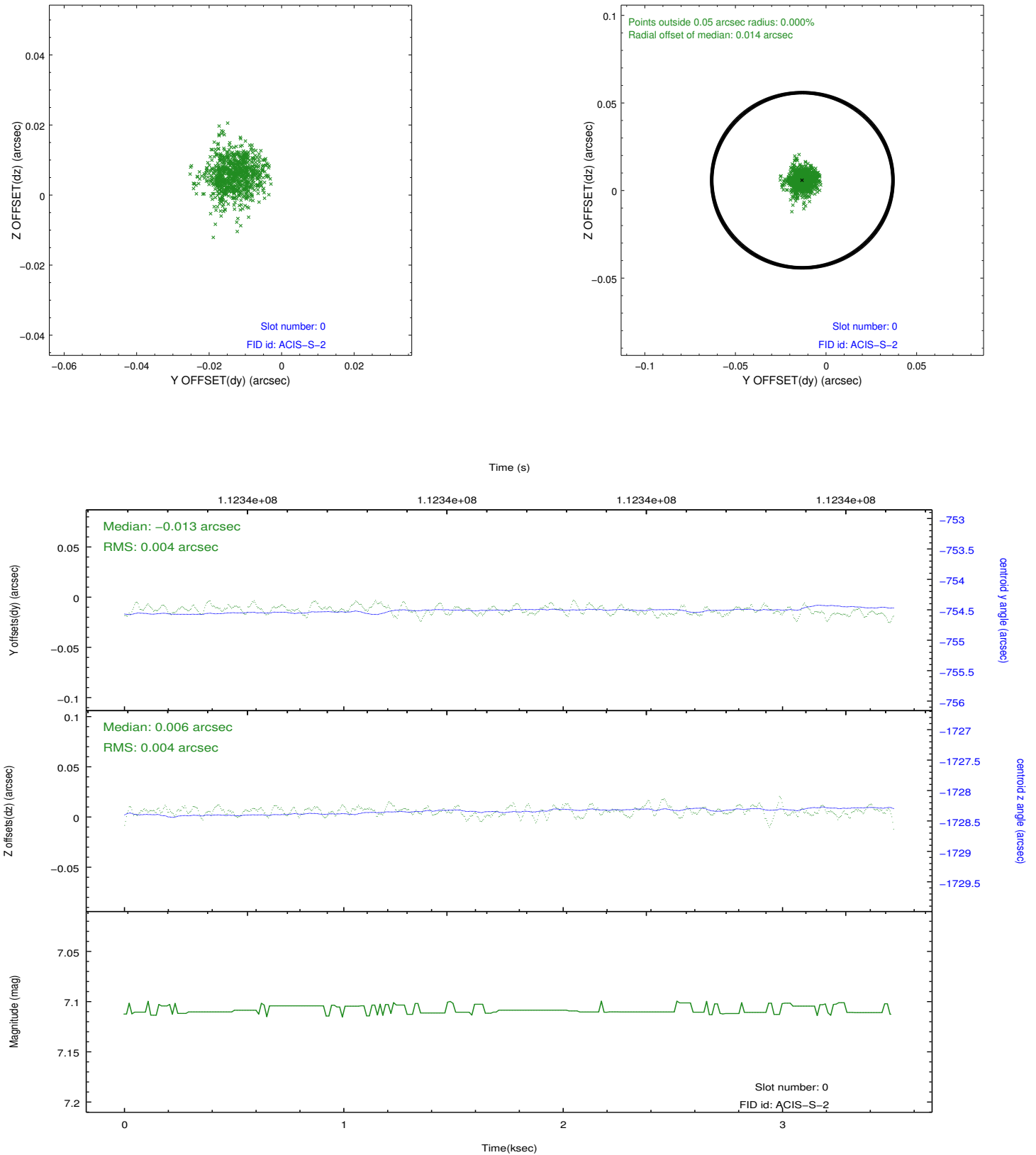


## 2.4.5 Slot 7

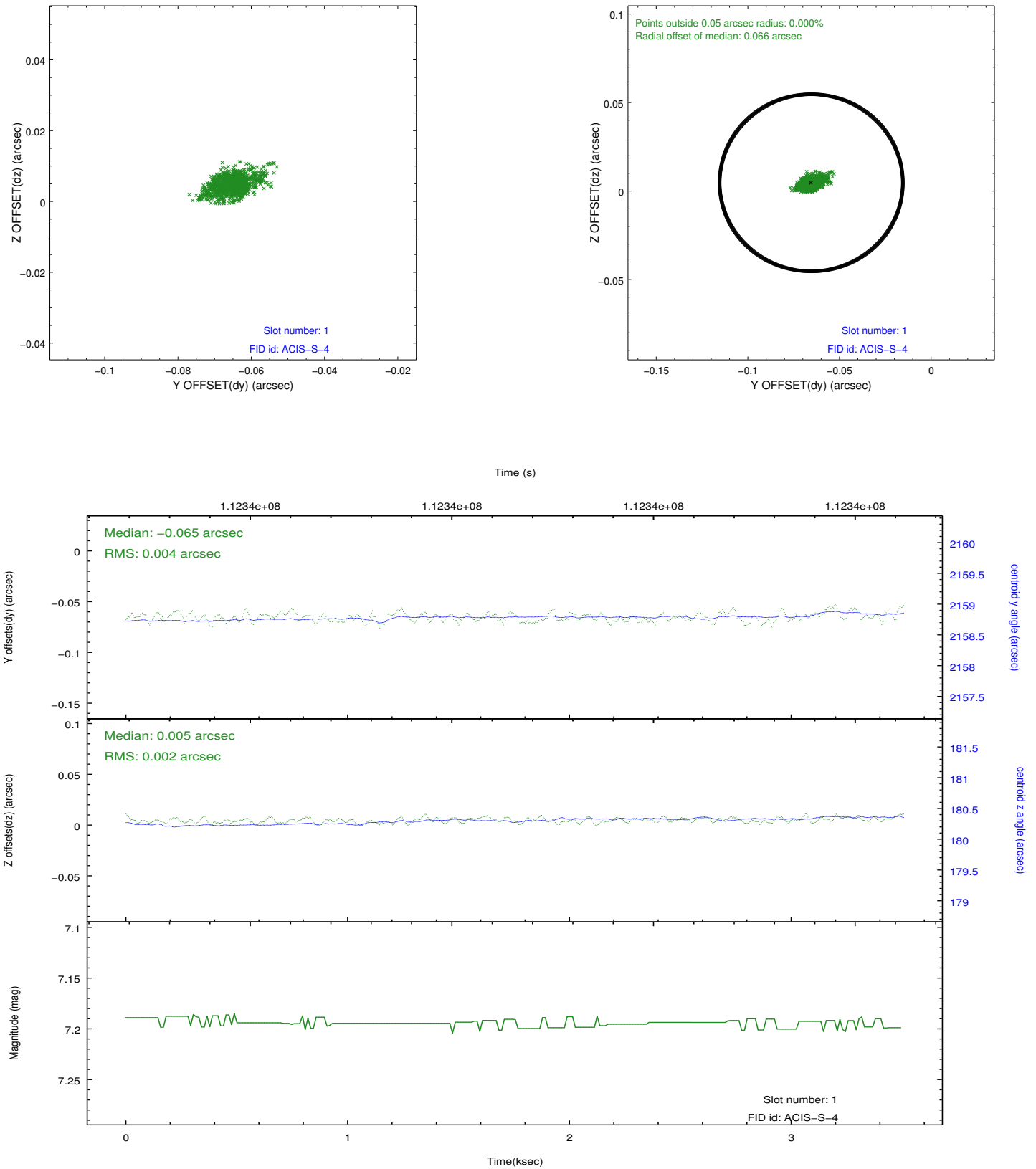


## 2.5 FID Slots

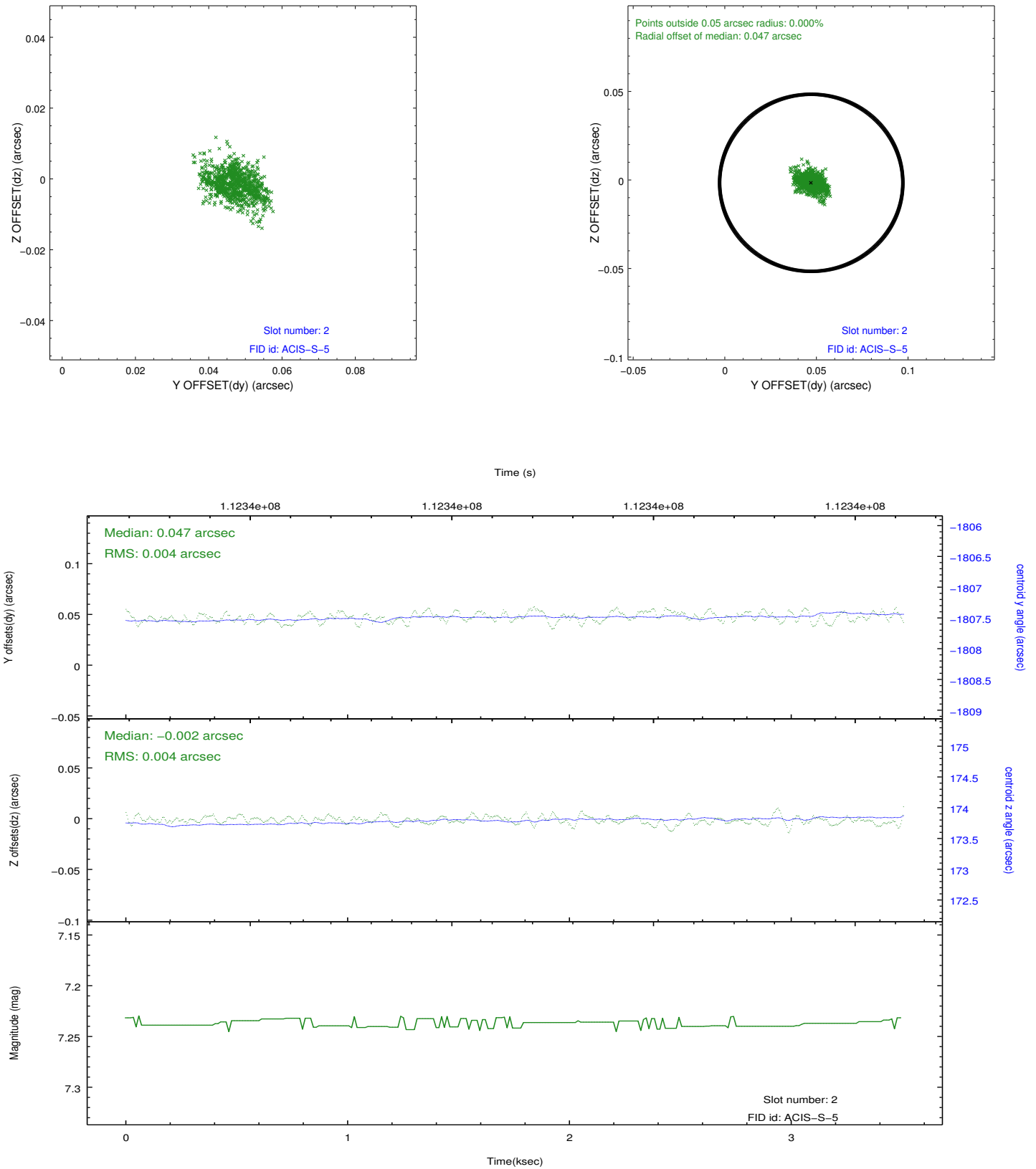
### 2.5.1 Slot 0



## 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)	2012.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.95

### A.2 Comments