

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7724 - L2 Version 3  
Chandra X-Ray Center

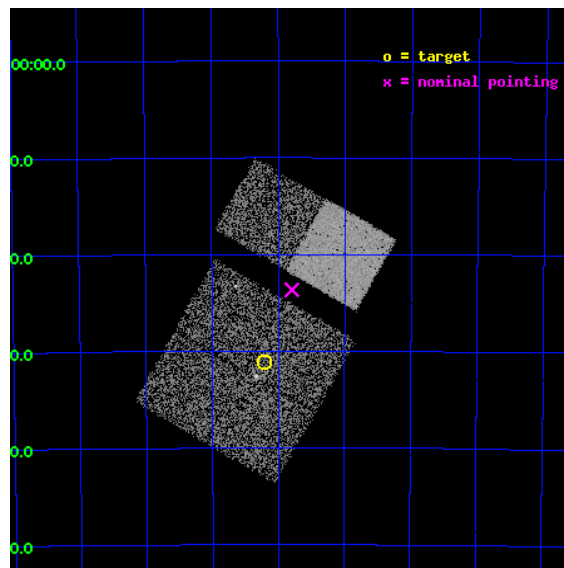
L2 Processing Date : Apr 18 2012

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# 1 Front

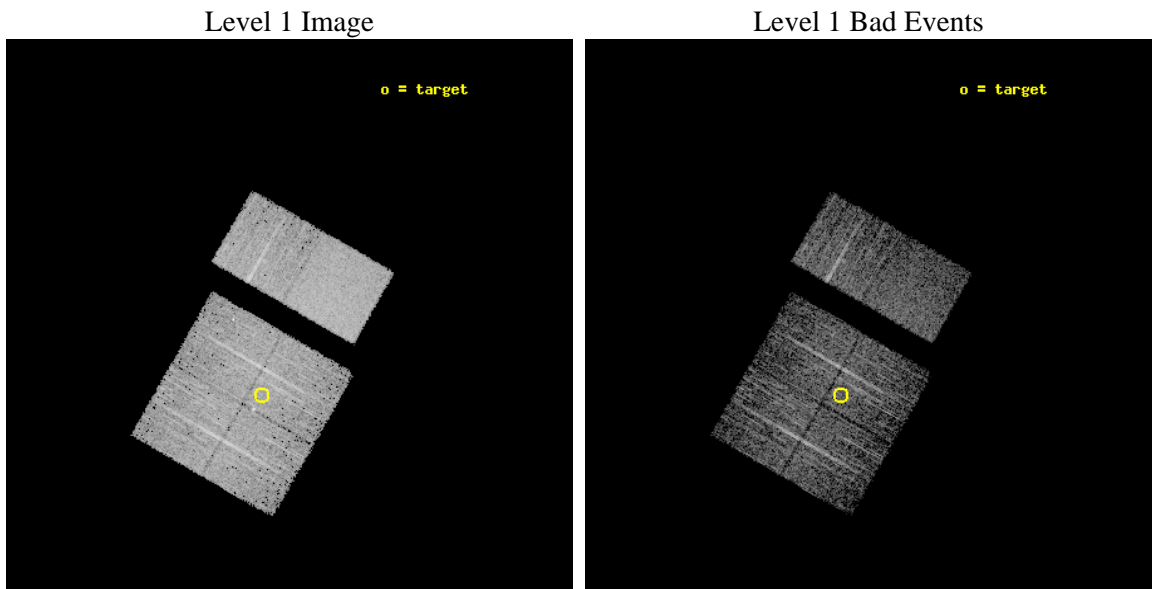
seq_num	701392	Sequence number
obs_id	7724	Observation id
title	Search for strongly obscured AGN: support for INTEGRAL all-sky hard X-ray survey	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	IGR J09522-6231	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.050833	Observer's specified target RA [deg]
dec_targ	-62.519	Observer's specified target Dec [deg]
ra_nom	147.94891189959	Nominal RA [deg]
dec_nom	-62.39422830495	Nominal Dec [deg]
roll_nom	29.802190153887	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3494.399987042	Sum of GTIs [s]
livetime	3450.151790331	Livetime [s]
ontime0	3494.399987042	Sum of GTIs [s]
ontime1	3494.399987042	Sum of GTIs [s]
ontime2	3494.399987042	Sum of GTIs [s]
ontime3	3494.399987042	Sum of GTIs [s]
ontime6	3494.399987042	Sum of GTIs [s]
ontime7	3494.399987042	Sum of GTIs [s]
l2events	34854	Number of level 2 events



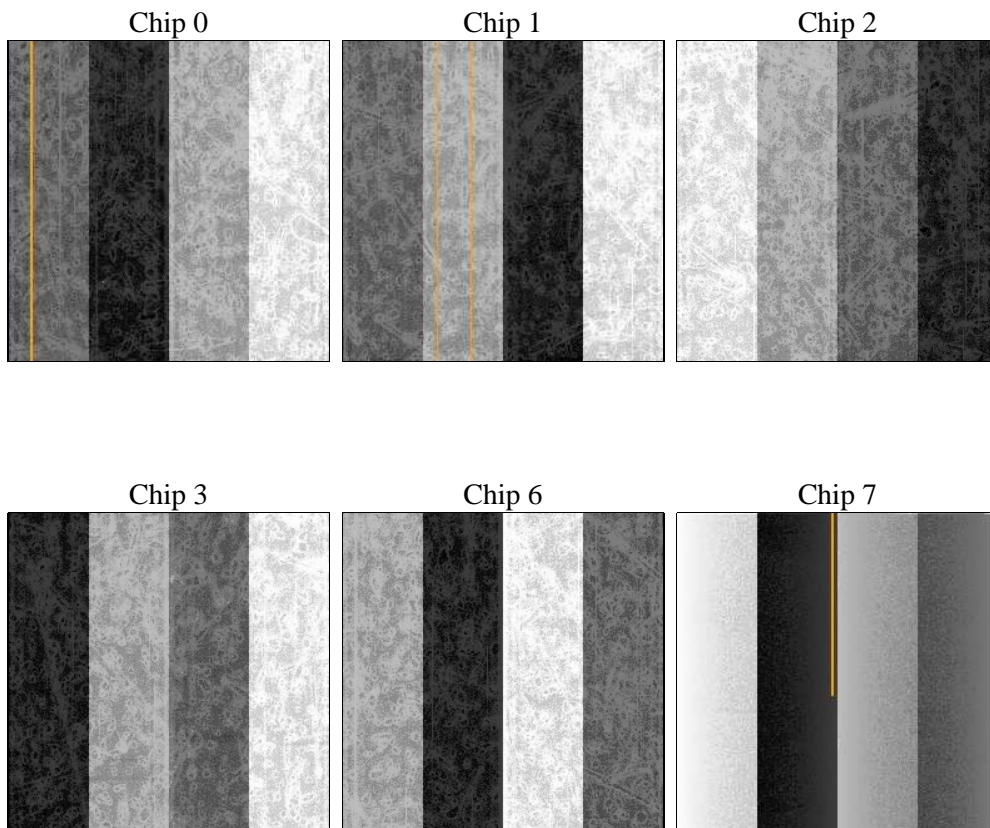
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3494.399987042	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	3494.399987042	Sum of GTIs [s]
date	2012-04-18T12:13:39	Date and time of file creation	ontime1	3494.399987042	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3494.399987042	Sum of GTIs [s]
			ontime3	3494.399987042	Sum of GTIs [s]
			ontime6	3494.399987042	Sum of GTIs [s]
			ontime7	3494.399987042	Sum of GTIs [s]
			l1events	197796	Number of level 1 events

### 2.1.4 Events

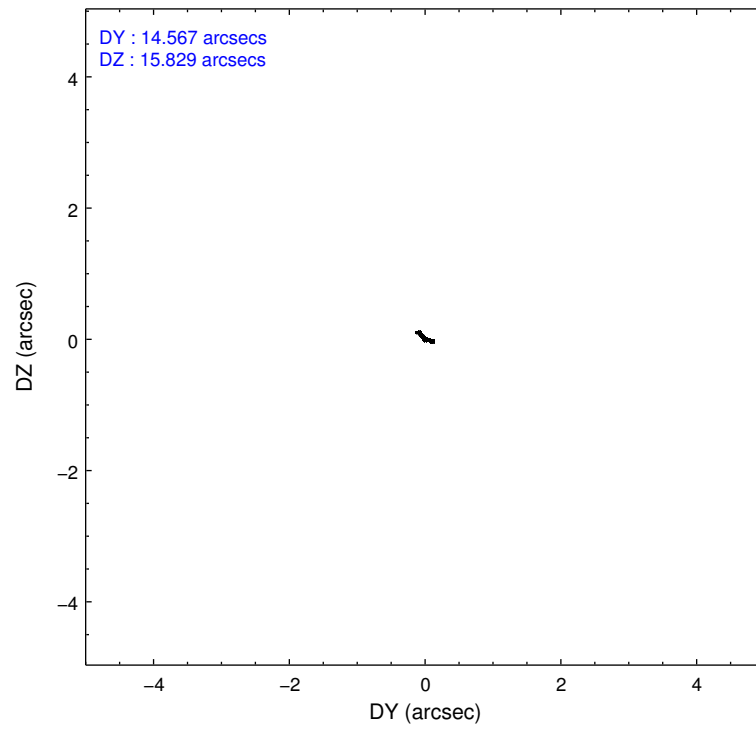
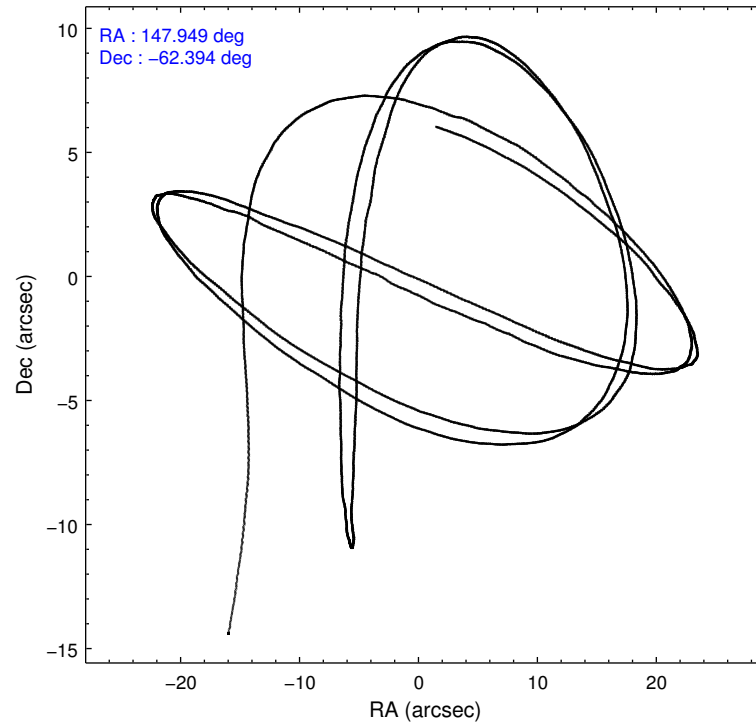
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31021	29463	30342	30693	33135	43142	grade 0 events	1606	1633	1844	1817	1494	1578
rejected events	27168	25291	26361	26775	29300	24983		5%	5%	6%	5%	4%	3%
rejected %	87%	85%	86%	87%	88%	57%	grade 1 events	23	9	29	15	28	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	887	953	798	701	818	3612
								2%	3%	2%	2%	2%	8%
							grade 3 events	375	415	362	375	343	1615
								1%	1%	1%	1%	1%	3%
							grade 4 events	348	340	370	360	347	1578
								1%	1%	1%	1%	1%	3%
							grade 5 events	1307	1315	1216	1454	1579	4065
								4%	4%	4%	4%	4%	9%
							grade 6 events	643	839	608	670	836	9786
								2%	2%	2%	2%	2%	22%
							grade 7 events	25832	23959	25115	25301	27690	20870
								83%	81%	82%	82%	83%	48%

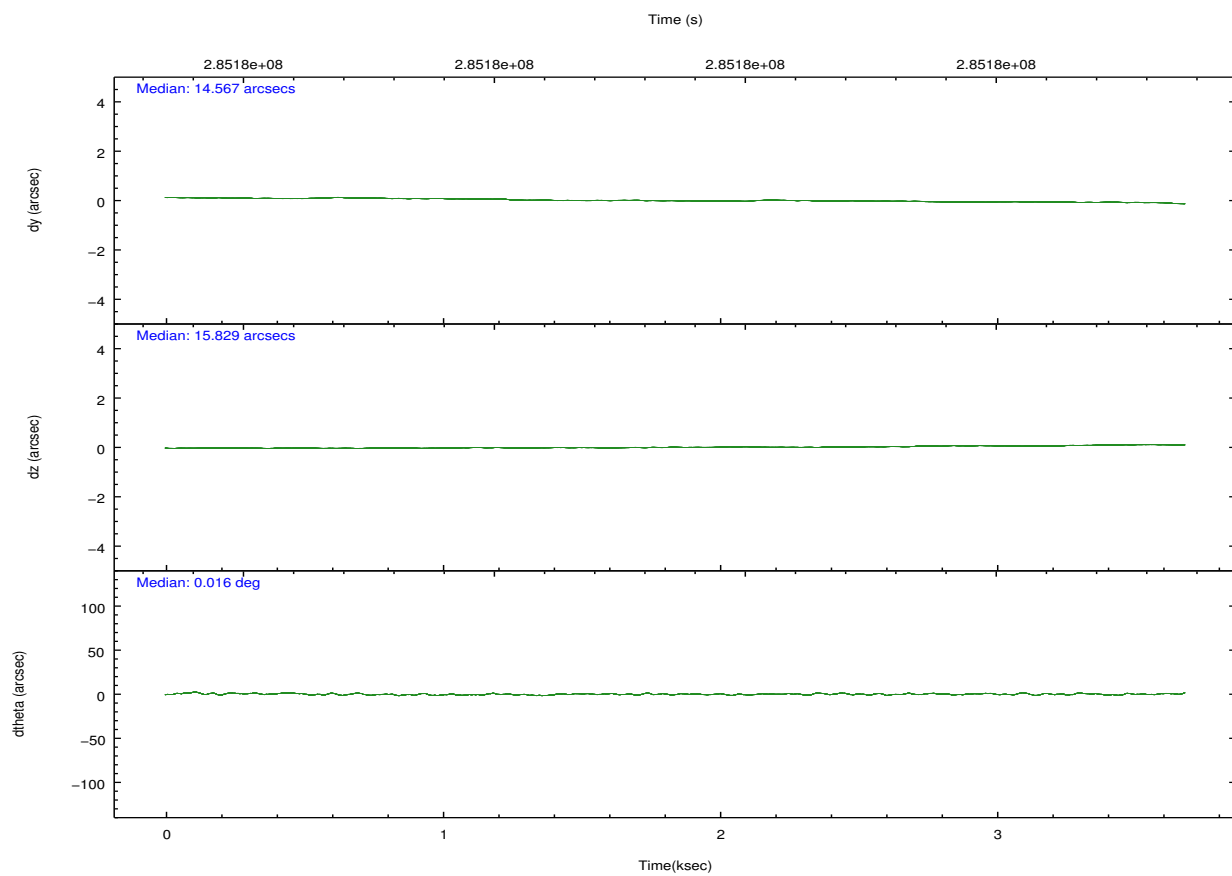
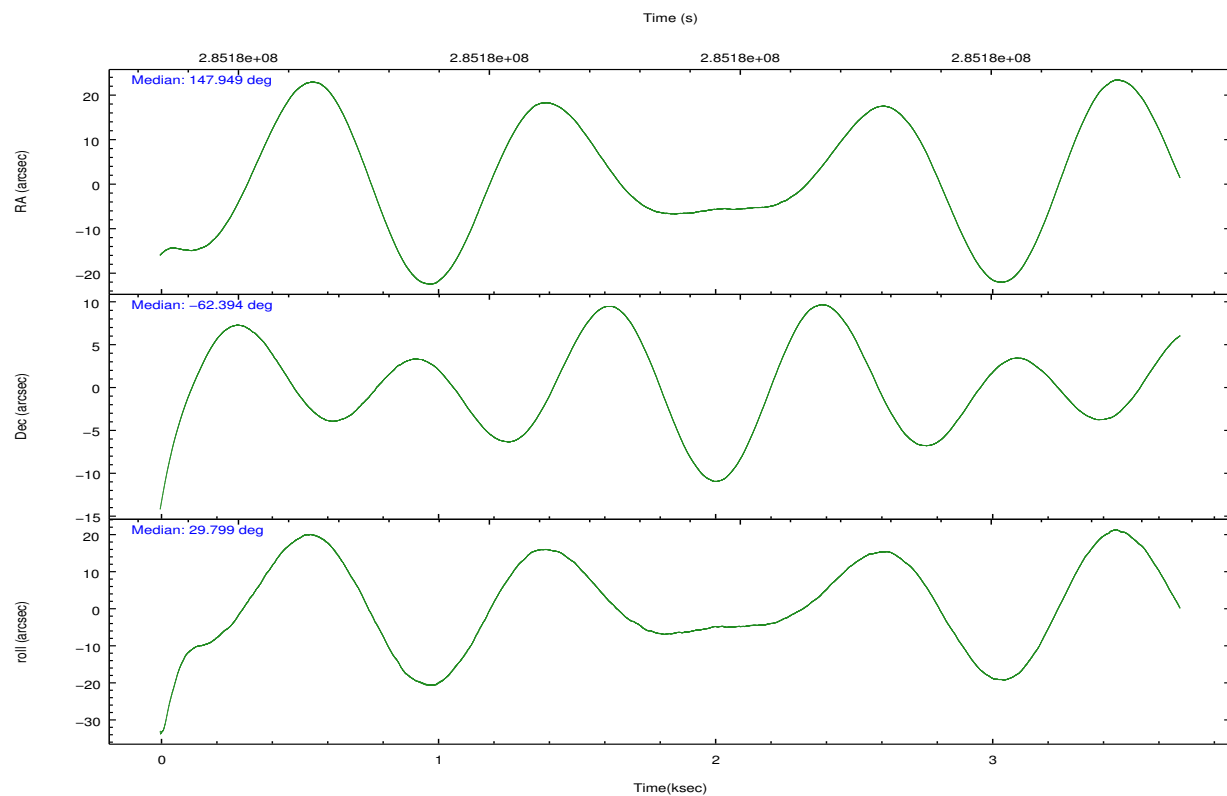


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	147.919781	147.9489118995878	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.418085	-62.39422830495012	Alternating exposures requested	N	N
[deg] Pointing Roll	29.619810	29.80219015388703	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.09952569084879603			
[mm] SIM translation stage pos	-207.132523	-207.1368374884175			
[mm] SIM translation stage offset	17	-26.4556155145122			
[s] Observation start time (MET)	285179055.184000	285178073.51105			
Observation start date	2007-01-14T16:23:10	2007-01-14T16:07:53			
[s] Observation end time (MET)	285182555.184000	285183298.9613			
Observation end date	2007-01-14T17:21:30	2007-01-14T17:34:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



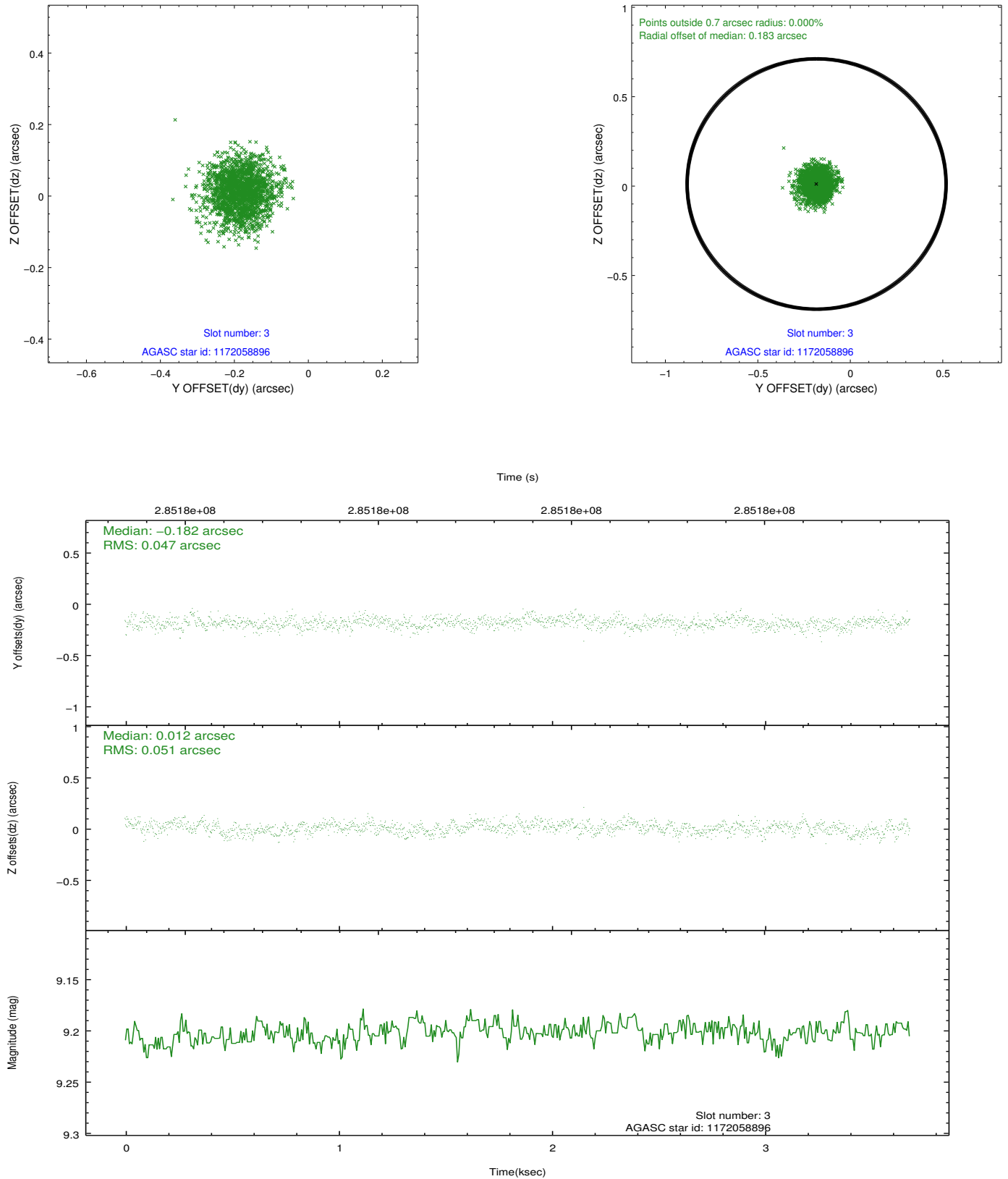


### Slot Statistics

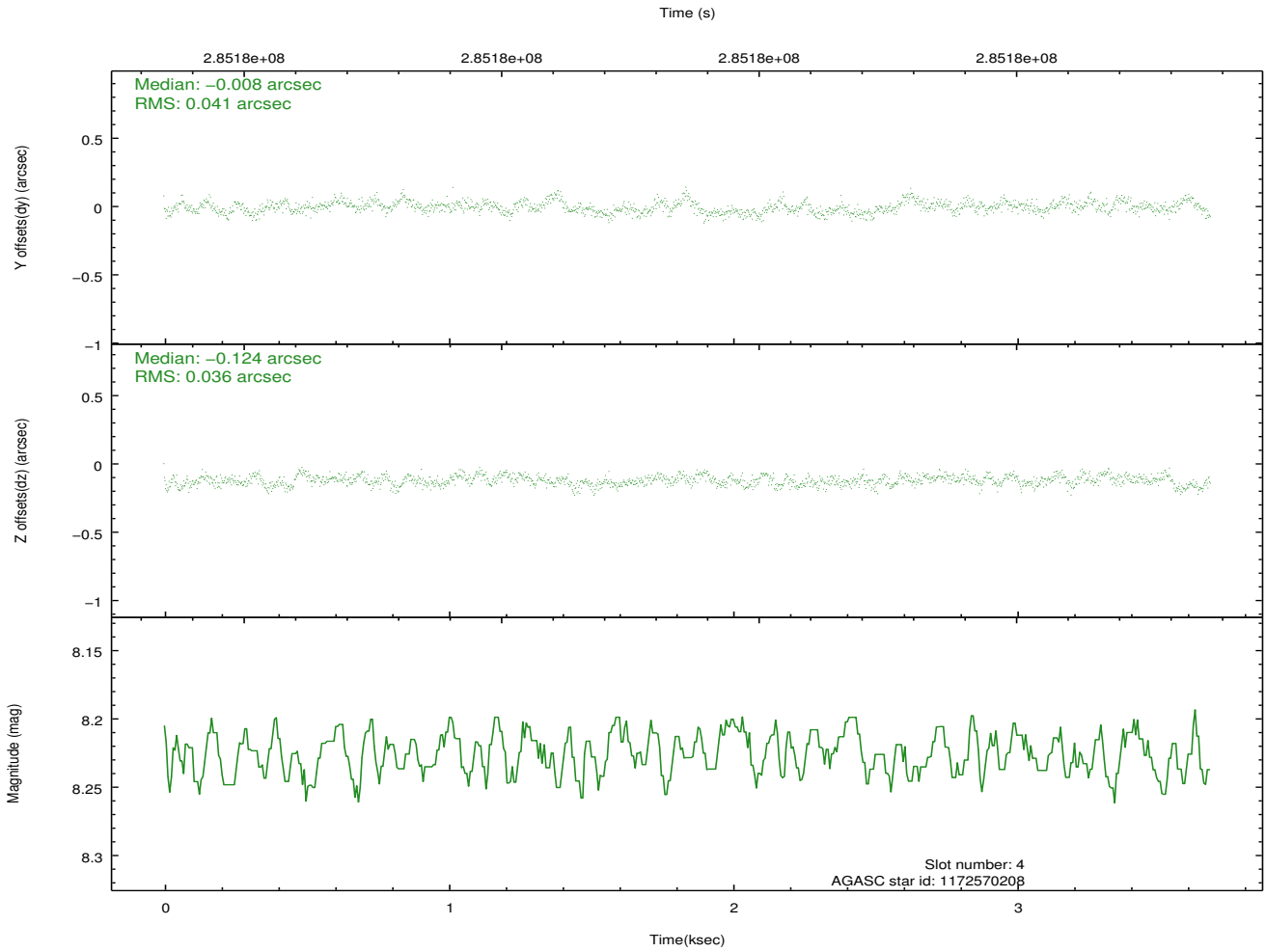
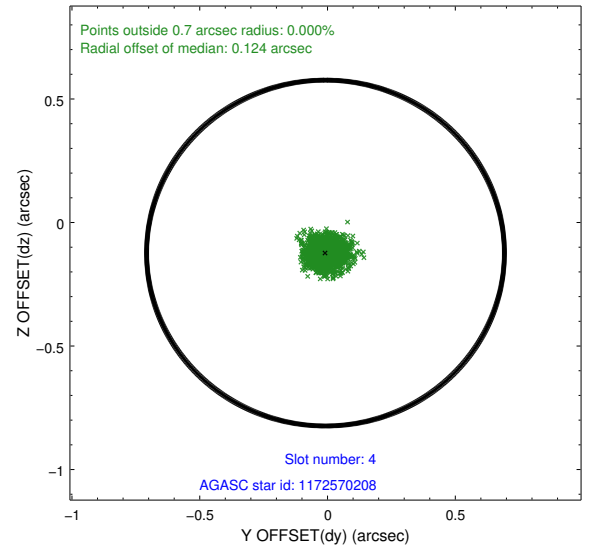
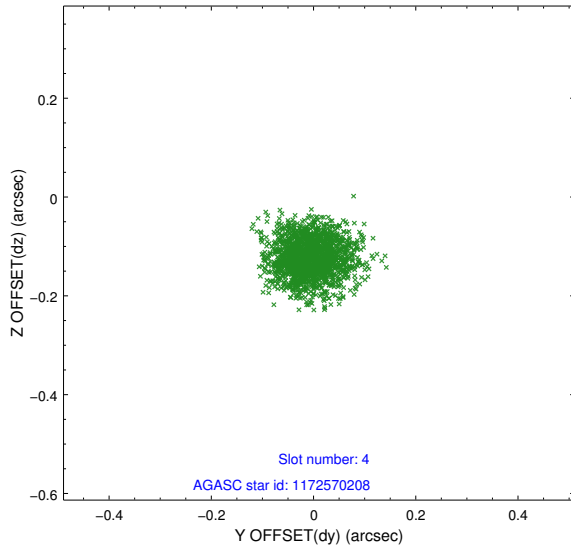
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.19	898	0.295	-0.885	0.008	0.015	0.000000	0.000000	926.99	-1382.53
1	FID	ACIS-I-2	7.16	898	-0.368	0.333	0.006	0.011	0.000000	0.000000	-767.86	-1387.90
2	FID	ACIS-I-4	7.23	898	0.047	0.560	0.007	0.011	0.000000	0.000000	2143.99	519.86
3	GUIDE	1172058896	9.20	1794	-0.182	0.012	0.073	0.120	148.470711	-61.644792	2192.51	1951.34
4	GUIDE	1172570208	8.23	1795	-0.008	-0.124	0.059	0.094	148.492810	-62.119644	1368.63	454.64
5	GUIDE	1172572144	8.55	1796	0.051	-0.006	0.072	0.115	147.159881	-62.164600	-662.48	1418.51
6	GUIDE	1172577712	8.27	1797	0.058	0.209	0.064	0.103	147.313249	-63.151646	-2165.37	-1810.97
7	GUIDE	1172574088	8.06	1795	0.073	-0.089	0.058	0.101	146.676884	-62.709473	-2312.83	83.83

## 2.4 Star Slots

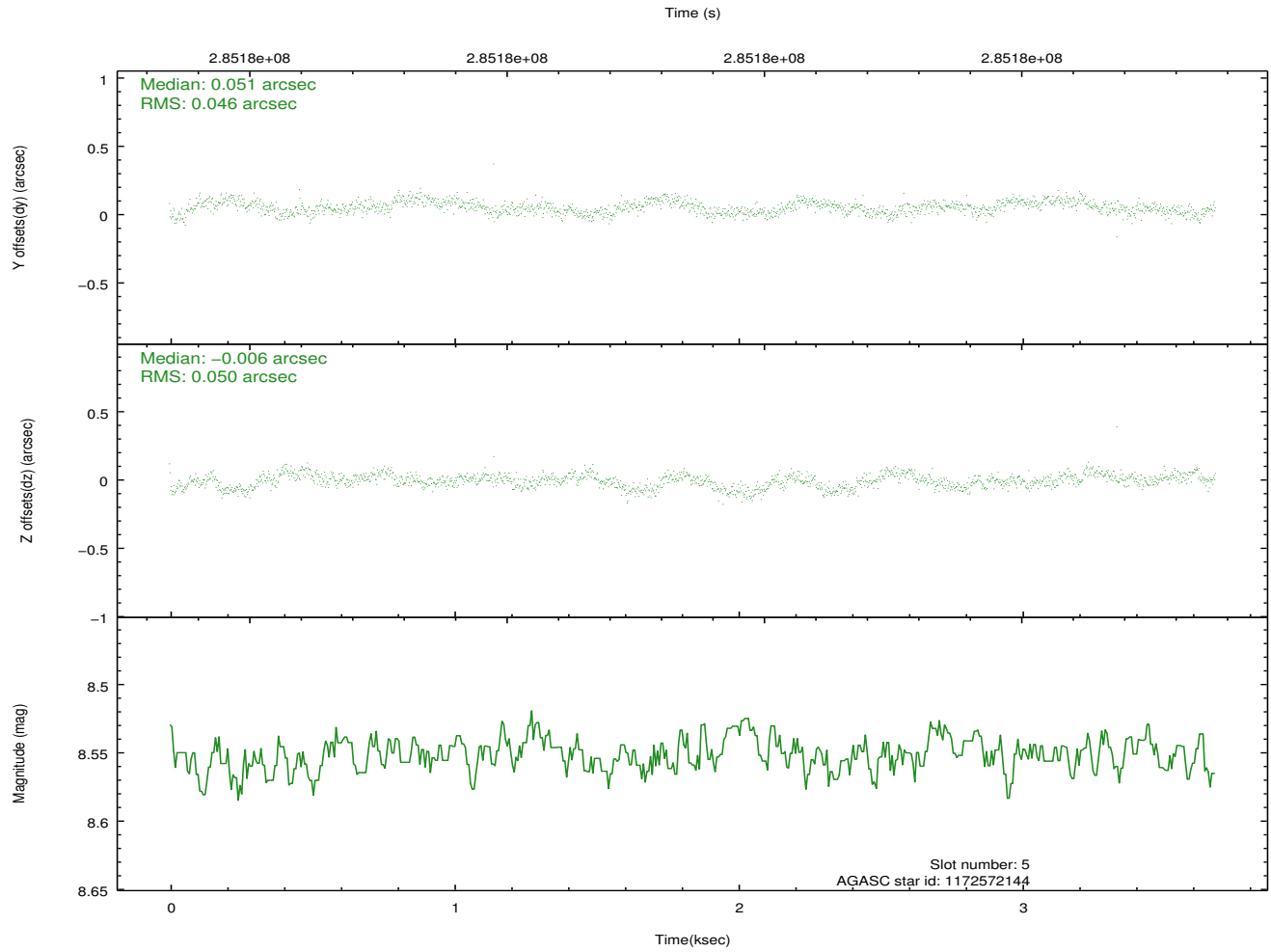
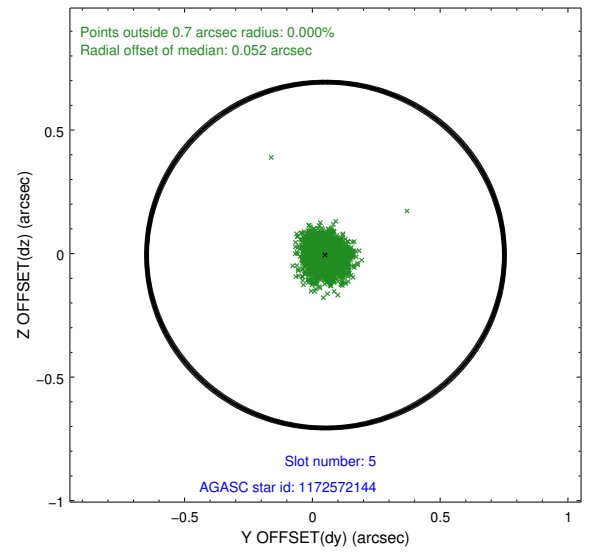
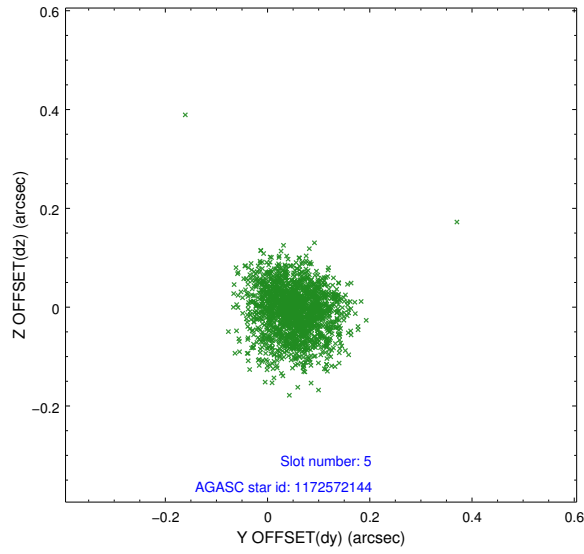
### 2.4.1 Slot 3



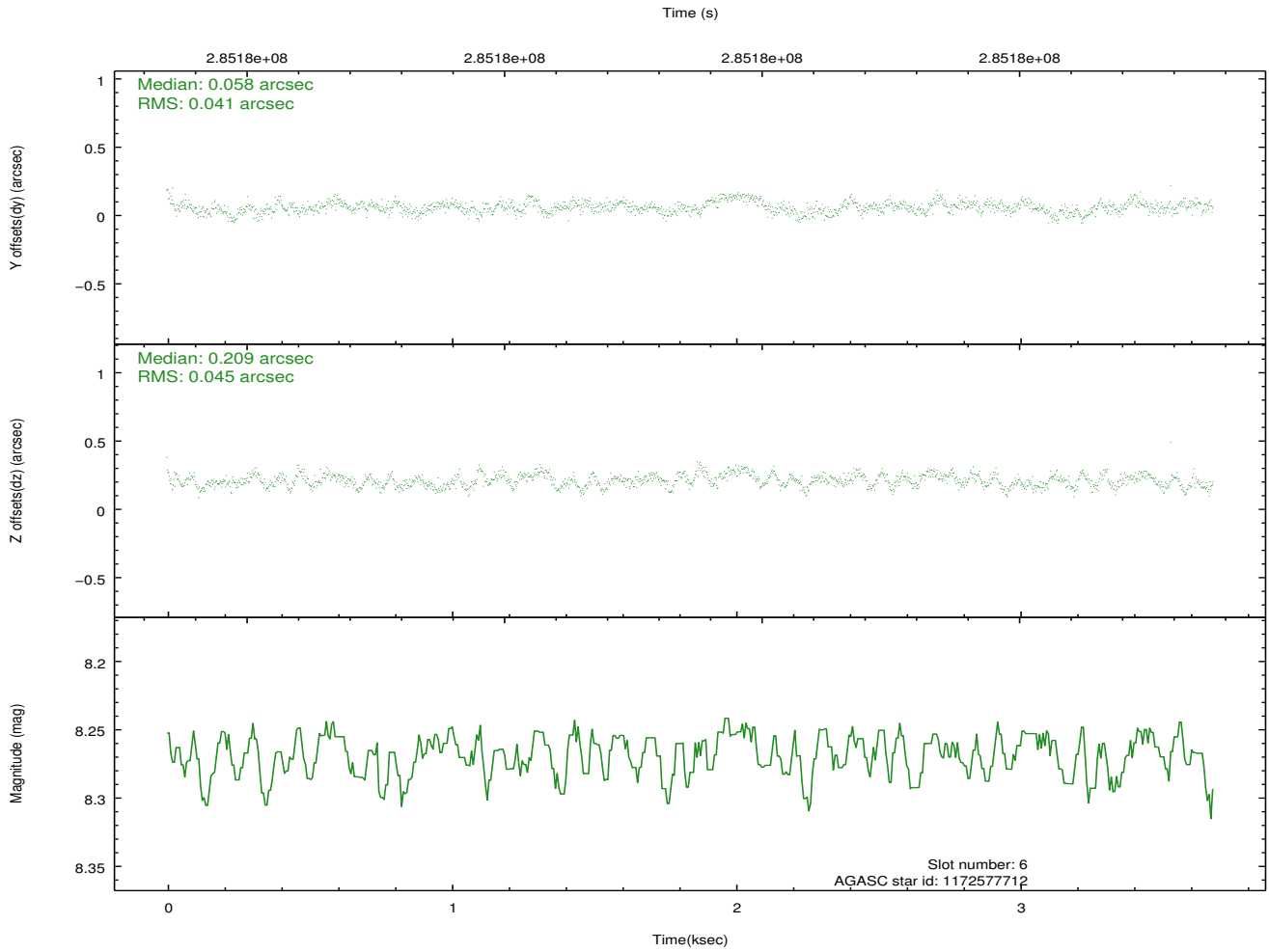
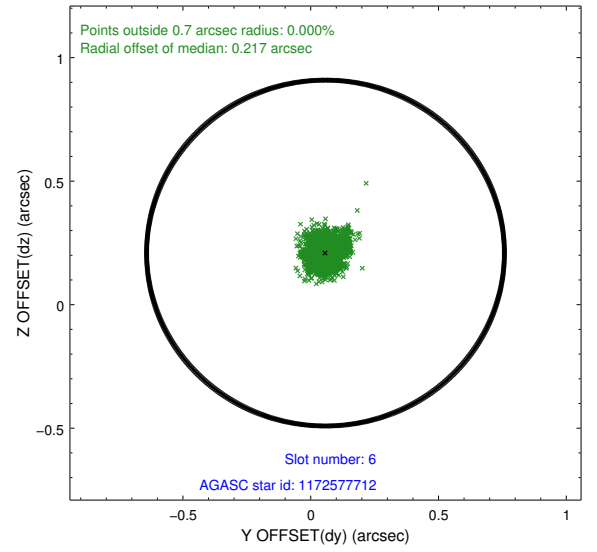
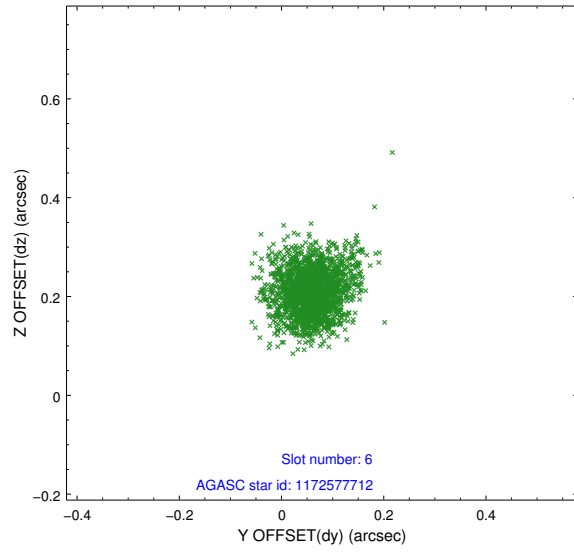
## 2.4.2 Slot 4



### 2.4.3 Slot 5

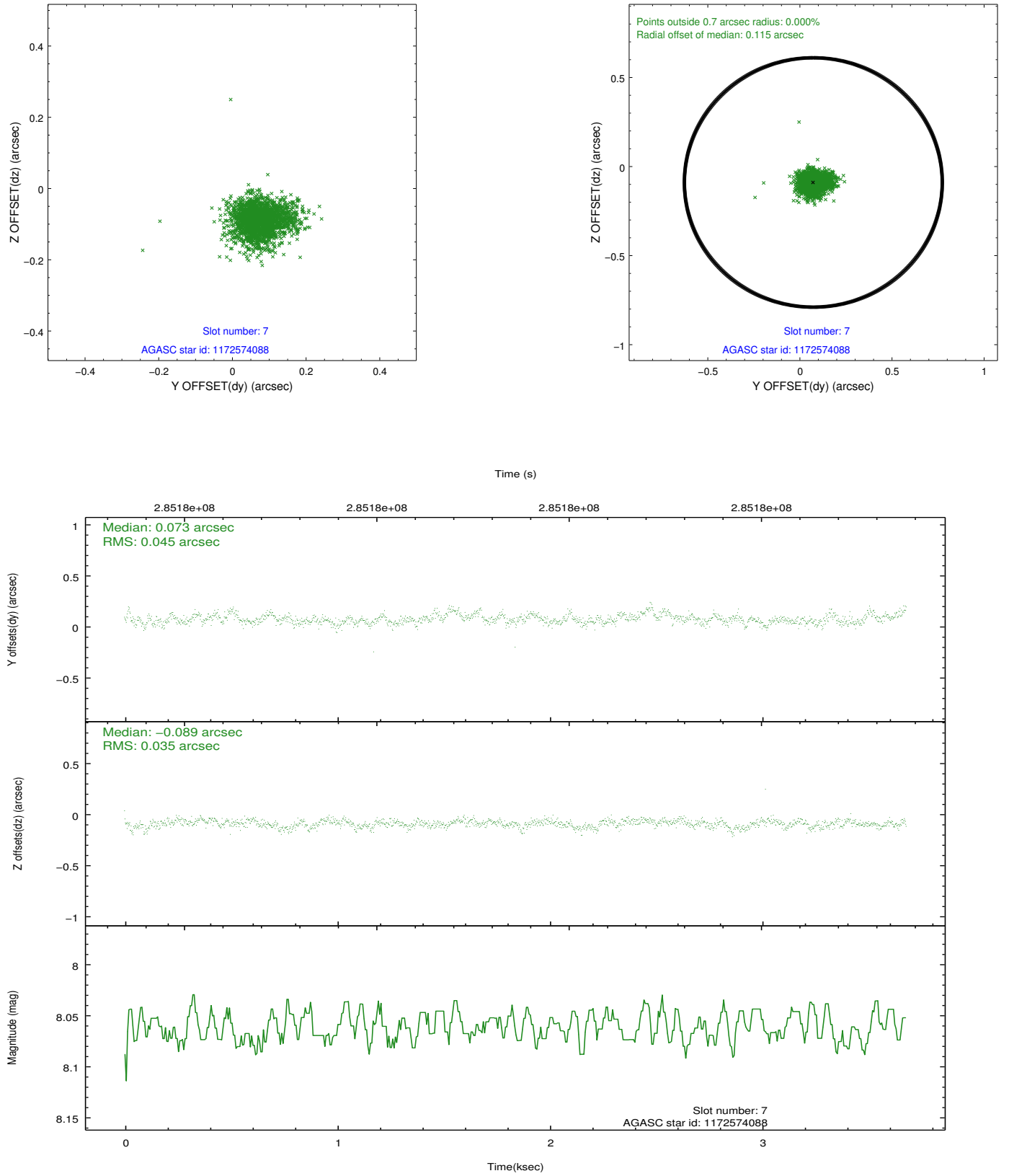


## 2.4.4 Slot 6



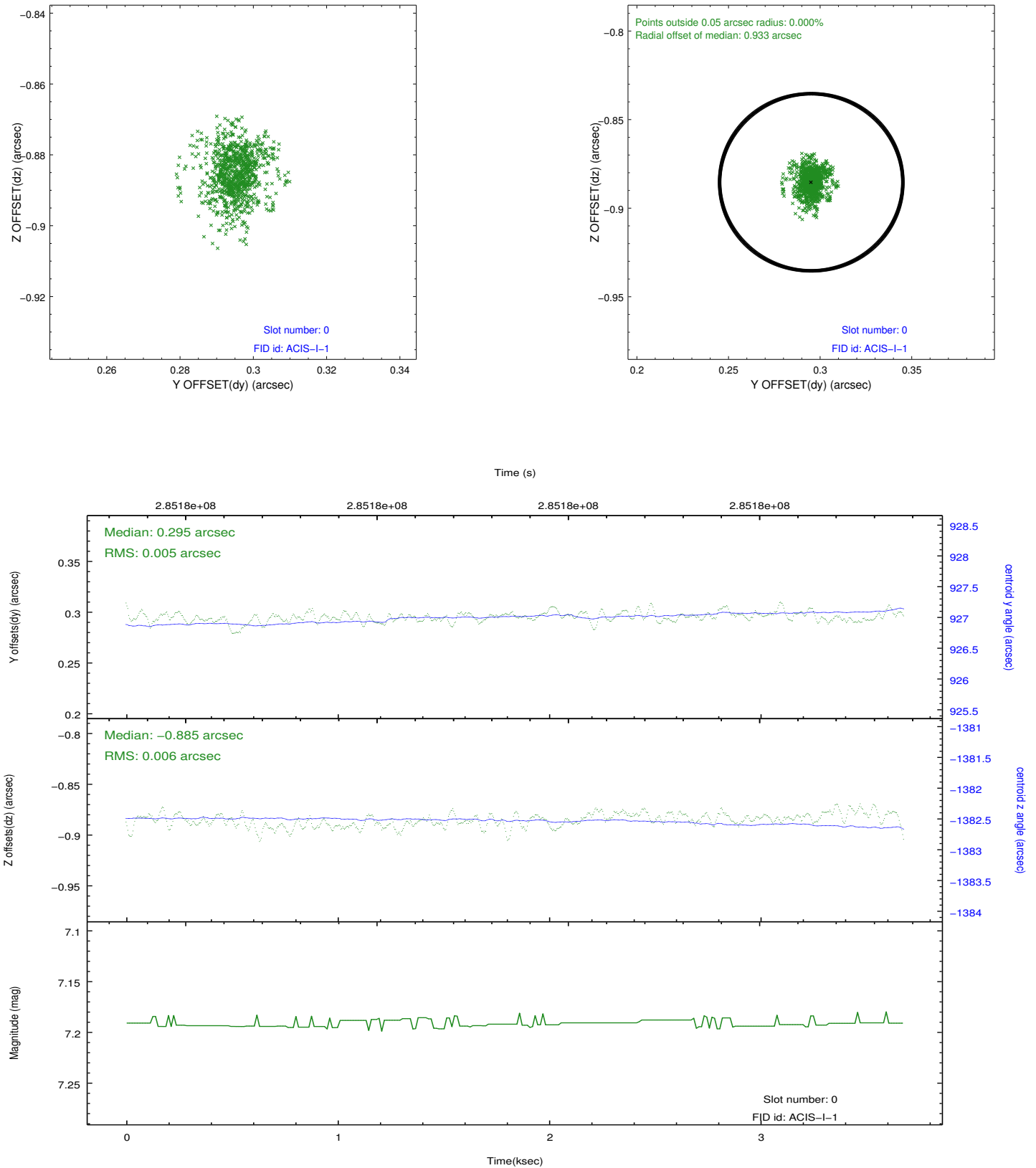


## 2.4.5 Slot 7

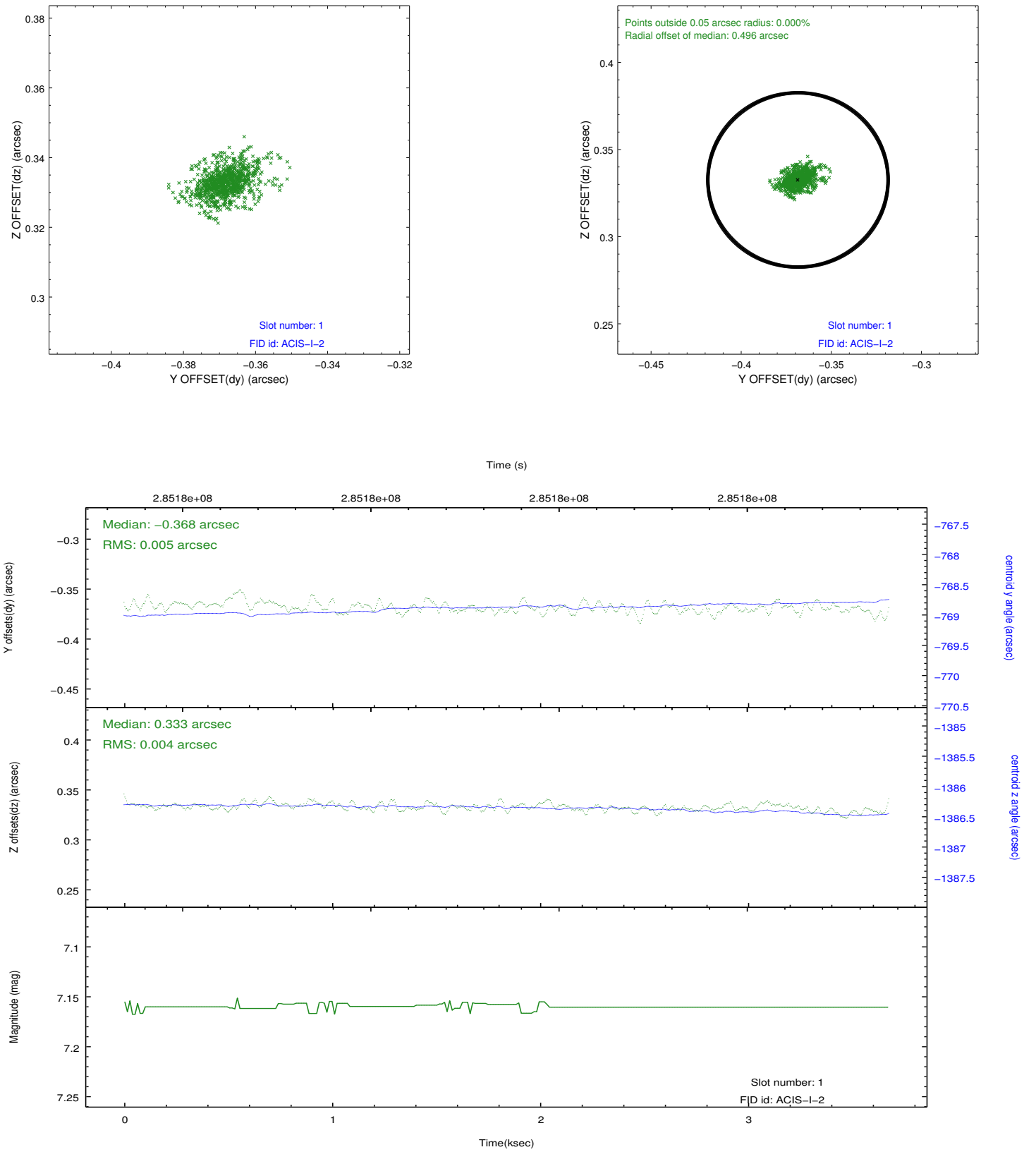


## 2.5 FID Slots

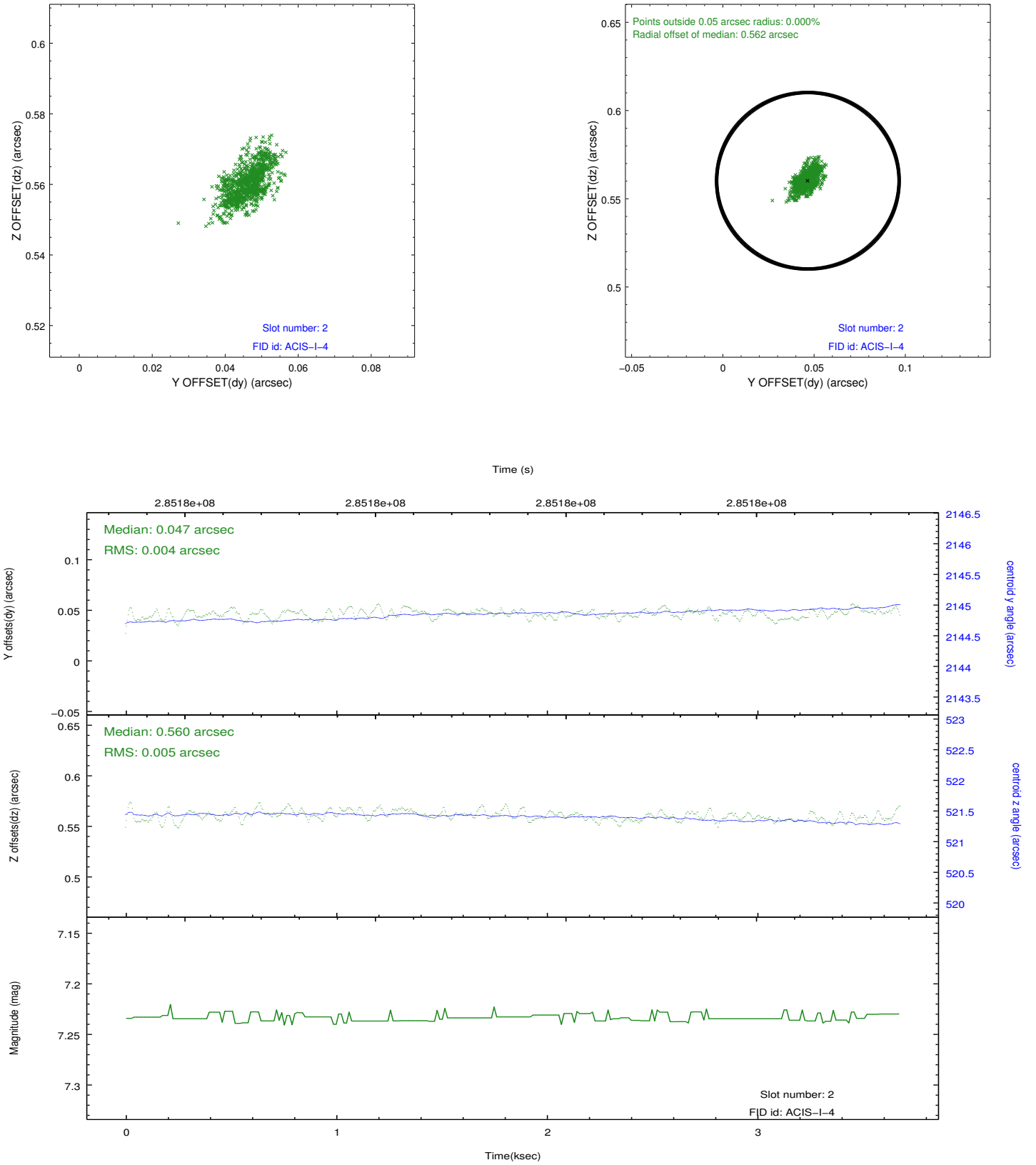
### 2.5.1 Slot 0



## 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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.49439998

## A.2 Comments

This observation was performed with a large SIM offset. As a result, the fid light positions are offset beyond normally expected ranges.