

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9754 - L2 Version 2  
Chandra X-Ray Center

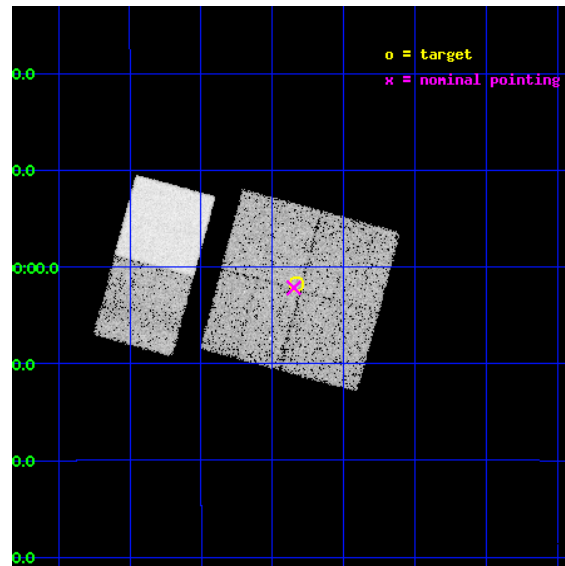
L2 Processing Date : May 3 2012

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# 1 Front

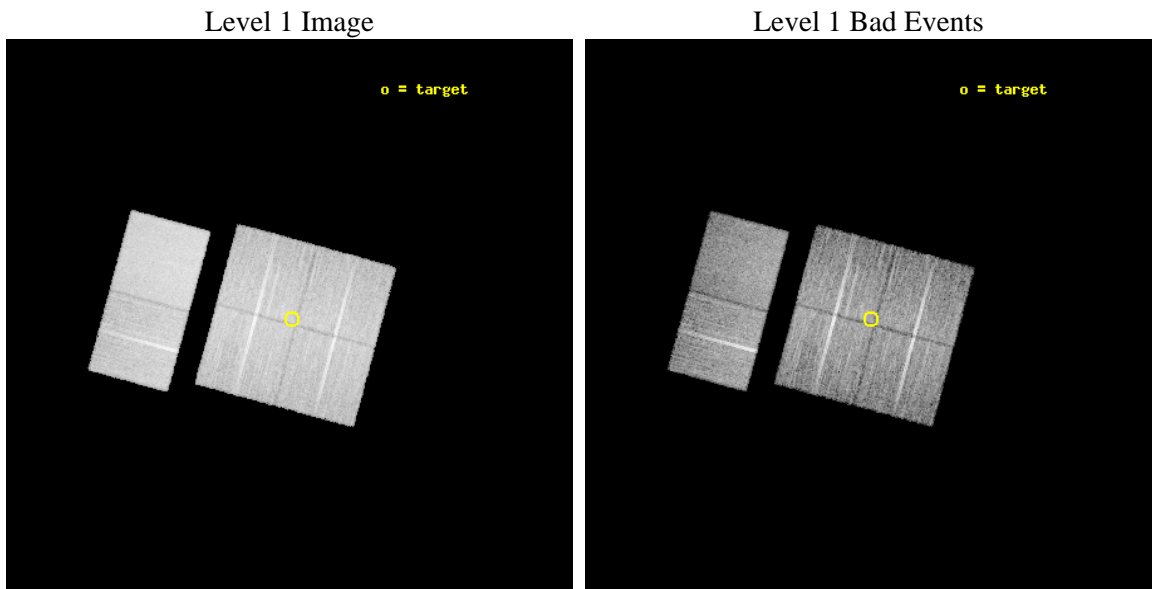
seq_num	500759	Sequence number
obs_id	9754	Observation id
title	A Star Cluster as a Supernova Factory	Proposal title
observer	Dr. Michael Muno	Principal investigator
object	RSG Cluster 2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	279.832917	Observer's specified target RA [deg]
dec_targ	-6.029361	Observer's specified target Dec [deg]
ra_nom	279.8372501535	Nominal RA [deg]
dec_nom	-6.0361569718157	Nominal Dec [deg]
roll_nom	285.20916562309	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10150.399962246	Sum of GTIs [s]
livetime	10021.869486087	Livetime [s]
ontime0	10150.399962246	Sum of GTIs [s]
ontime1	10150.399962246	Sum of GTIs [s]
ontime2	10150.399962246	Sum of GTIs [s]
ontime3	10150.399962246	Sum of GTIs [s]
ontime6	10150.399962246	Sum of GTIs [s]
ontime7	10150.399962246	Sum of GTIs [s]
l2events	115488	Number of level 2 events



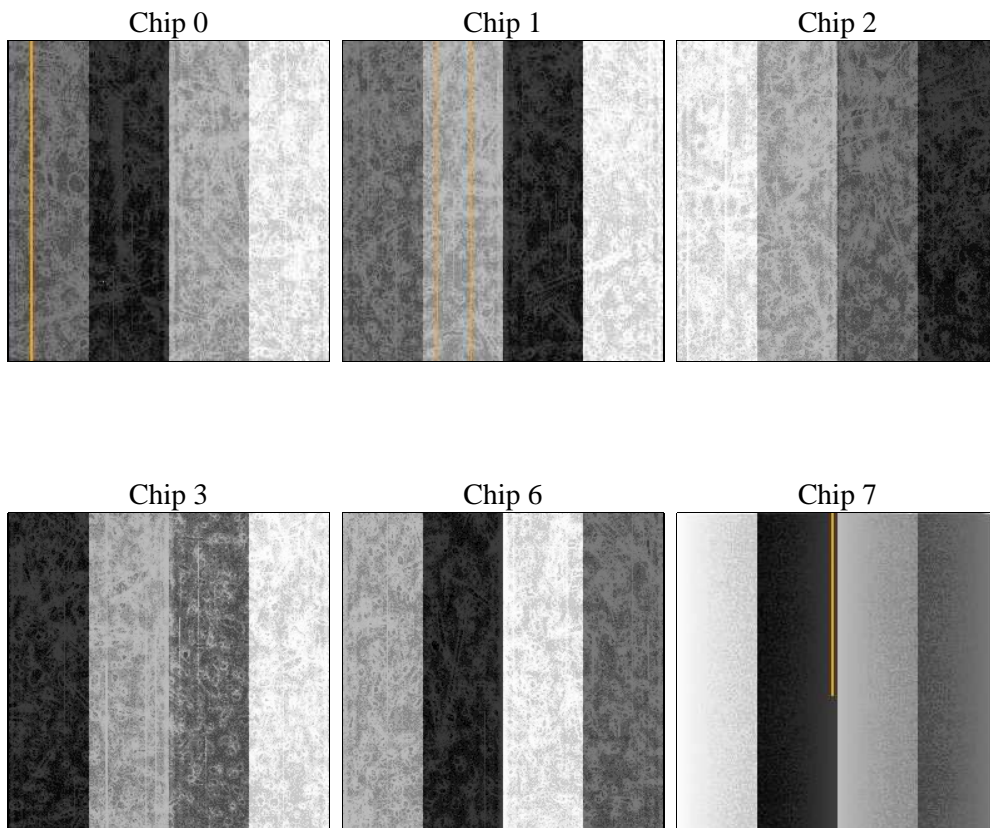
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	10150.399962246	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	10150.399962246	Sum of GTIs [s]
date	2012-05-04T01:38:04	Date and time of file creation	ontime1	10150.399962246	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10150.399962246	Sum of GTIs [s]
			ontime3	10150.399962246	Sum of GTIs [s]
			ontime6	10150.399962246	Sum of GTIs [s]
			ontime7	10150.399962246	Sum of GTIs [s]
			l1events	653694	Number of level 1 events

### 2.1.4 Events

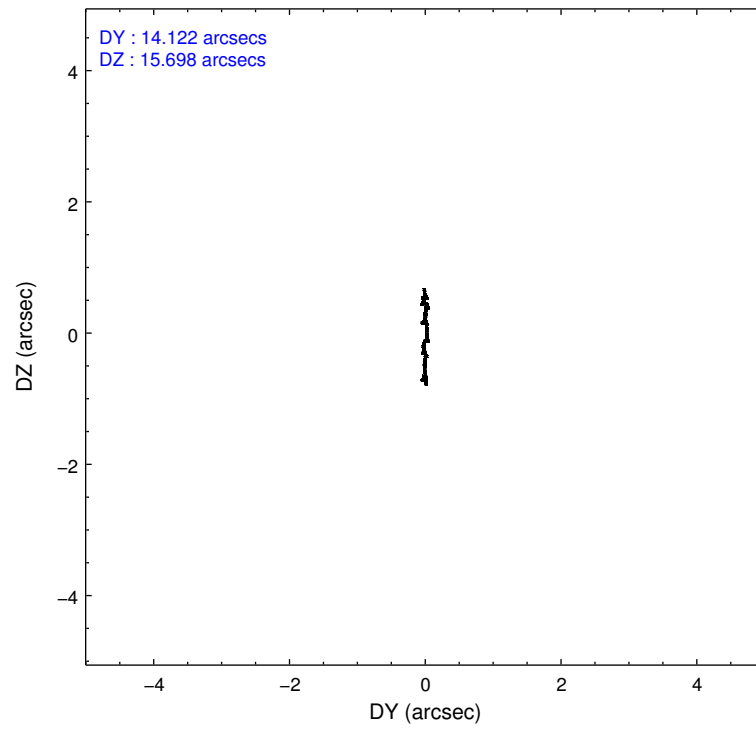
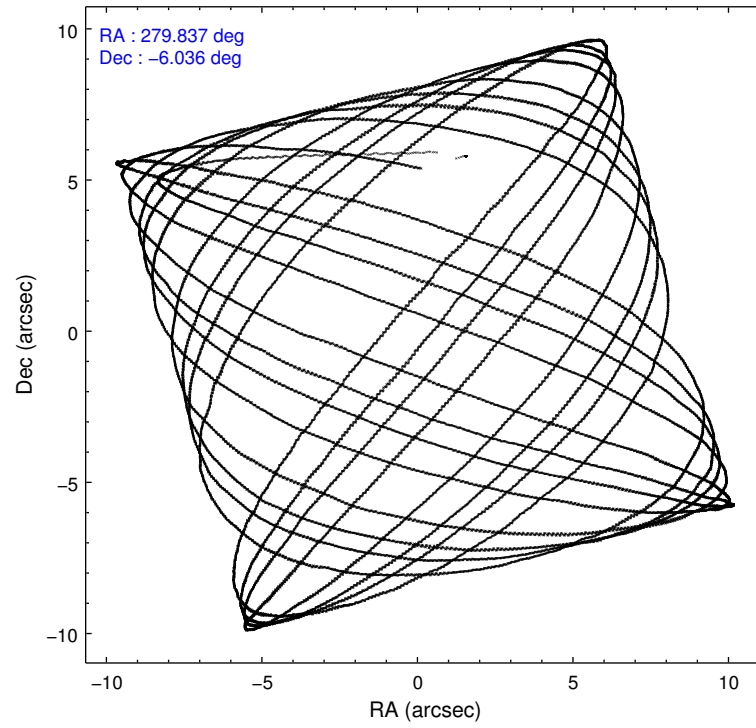
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	94976	96276	106581	101437	109754	144670	grade 0 events	5788	5381	6291	6223	5598	5428
rejected events	82067	82938	93443	88341	96574	84862		6%	5%	5%	6%	5%	3%
rejected %	86%	86%	87%	87%	87%	58%	grade 1 events	79	59	89	91	70	167
								0%	0%	0%	0%	0%	0%
							grade 2 events	2797	3176	2734	2507	2883	12666
								2%	3%	2%	2%	2%	8%
							grade 3 events	1251	1319	1187	1244	1179	5236
								1%	1%	1%	1%	1%	3%
							grade 4 events	1127	1213	1207	1196	1199	5188
								1%	1%	1%	1%	1%	3%
							grade 5 events	4097	4444	3915	4863	4841	13417
								4%	4%	3%	4%	4%	9%
							grade 6 events	2278	2603	2040	2260	2670	32882
								2%	2%	1%	2%	2%	22%
							grade 7 events	77559	78081	89118	83053	91314	69686
								81%	81%	83%	81%	83%	48%

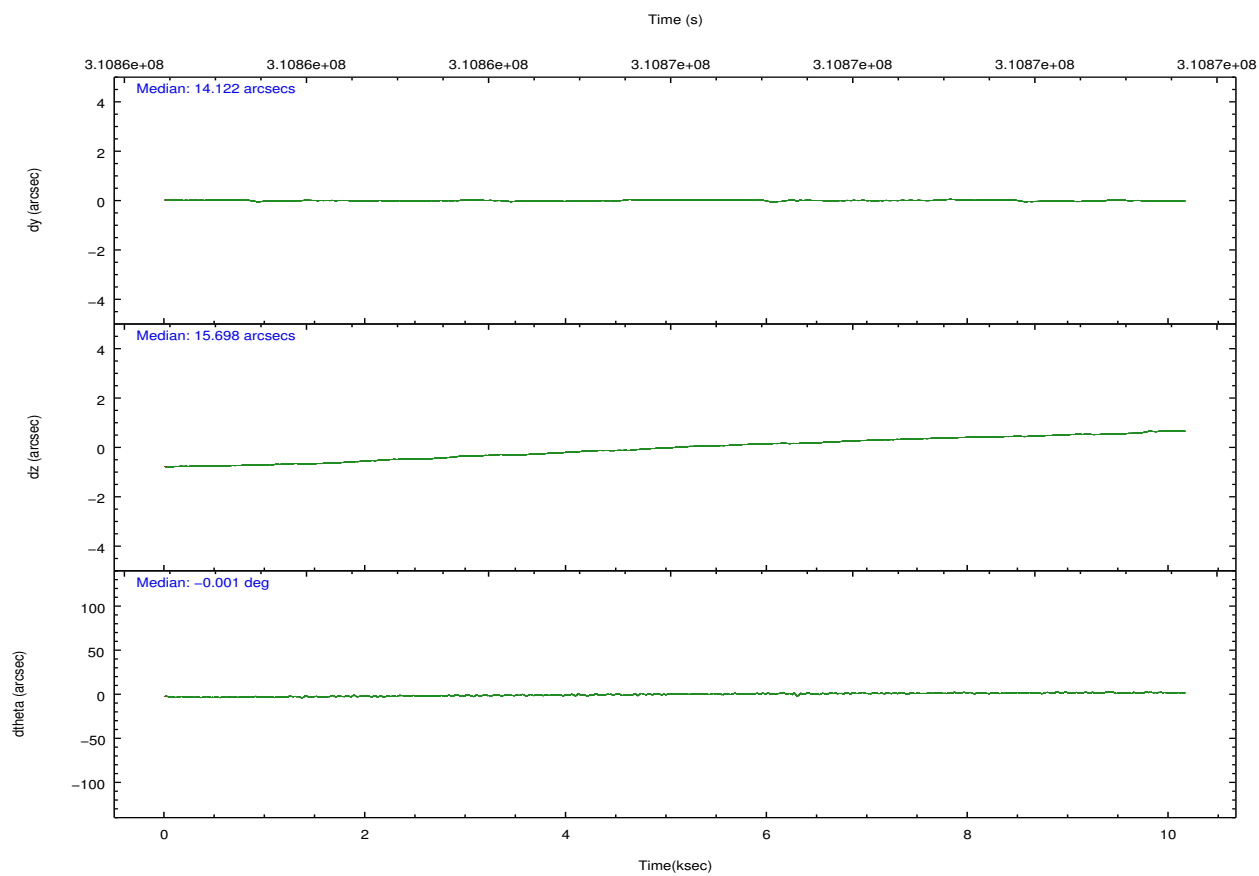
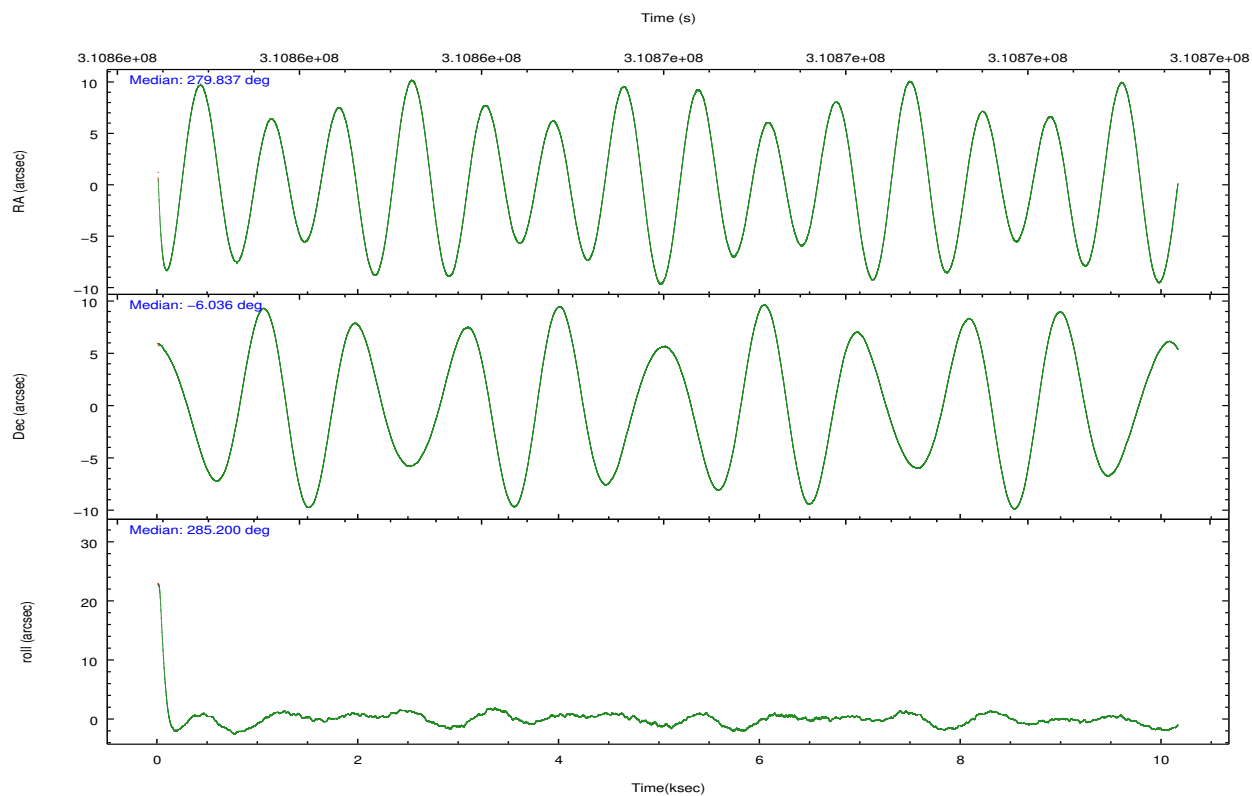


## 2.2 Compared Parameters

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	279.817581	279.8372501535029	CCD I2 on	Y	Y
[deg] Pointing Dec	-6.016878	-6.036156971815728	CCD I3 on	Y	Y
[deg] Pointing Roll	284.998389	285.2091656230874	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	310861129.184000	310859937.12702	CCD S5 on	N	N
Observation start date	2007-11-07T22:17:44	2007-11-07T21:58:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	310871129.184000	310871913.7401	On-chip summing requested	N	N
Observation end date	2007-11-08T01:04:24	2007-11-08T01:18:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



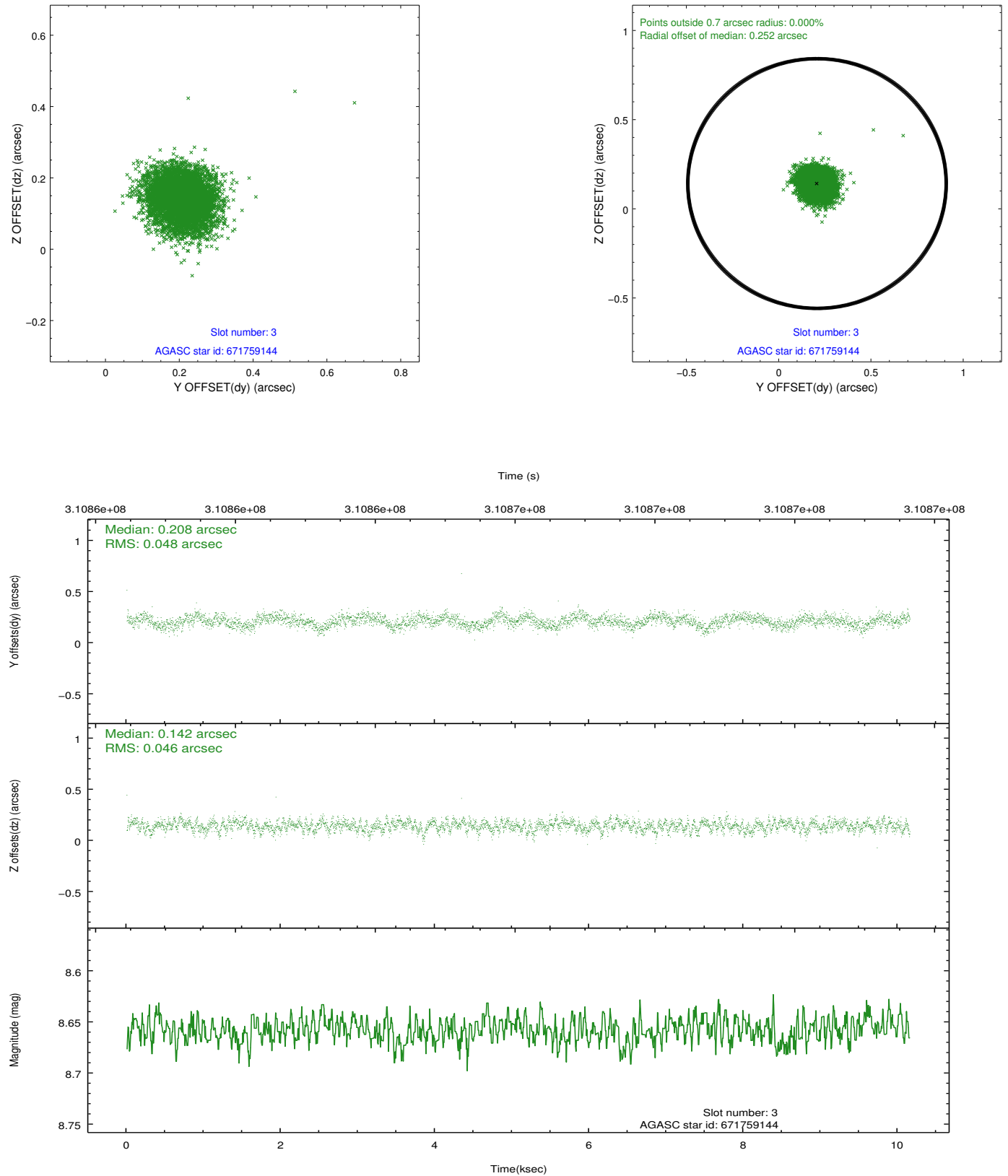


### Slot Statistics

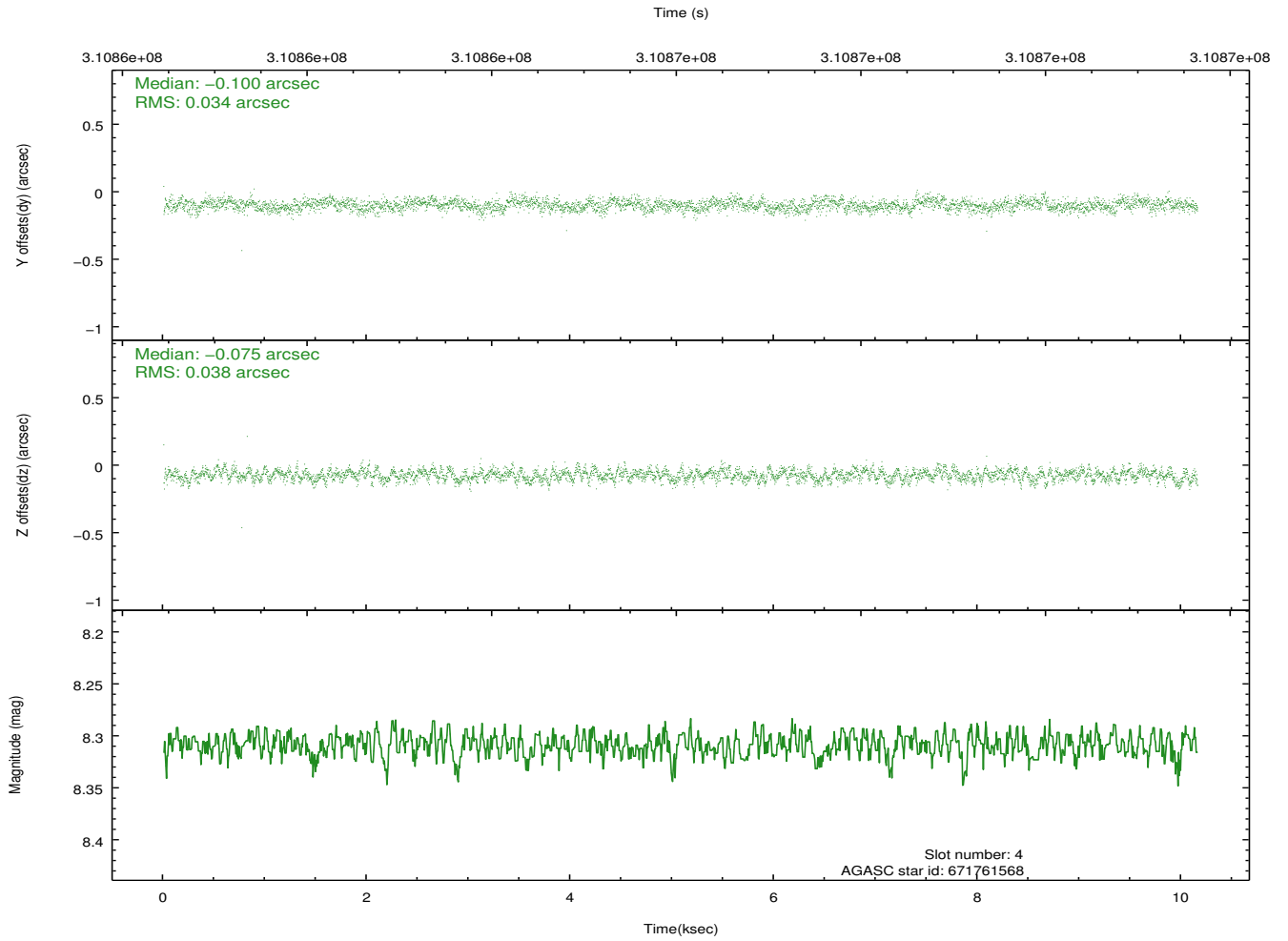
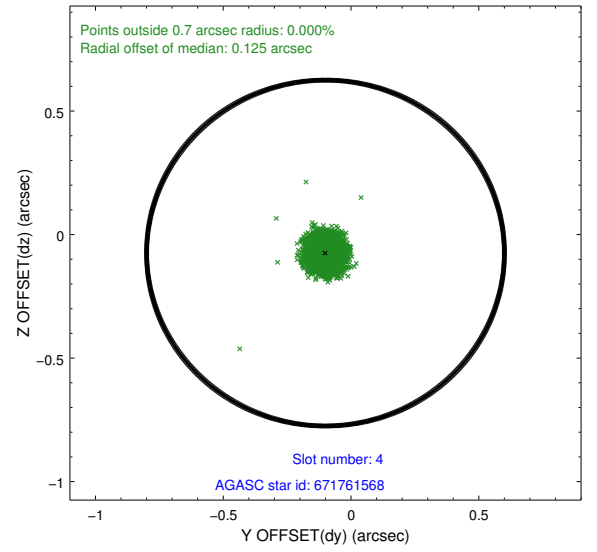
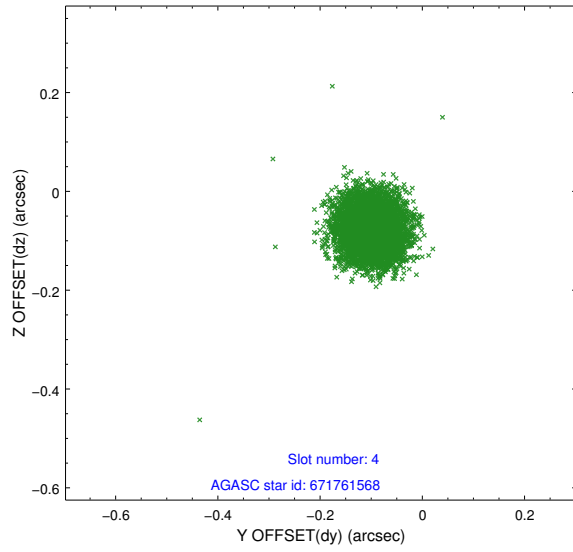
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2477	0.056	-0.044	0.018	0.037	0.000000	0.000000	925.40	-839.32
1	FID	ACIS-I-5	7.23	2477	-0.229	0.049	0.012	0.017	0.000000	0.000000	-1822.68	1058.04
2	FID	ACIS-I-6	7.23	2477	0.083	0.062	0.015	0.023	0.000000	0.000000	390.44	1703.11
3	GUIDE	671759144	8.66	4950	0.208	0.142	0.071	0.113	279.658906	-5.990264	-238.82	-523.58
4	GUIDE	671761568	8.31	4953	-0.100	-0.075	0.053	0.085	280.250283	-5.657644	-847.51	1831.86
5	GUIDE	671762280	8.85	4951	0.025	0.047	0.103	0.160	280.028746	-5.773981	-648.06	957.81
6	GUIDE	671763744	7.52	4953	-0.124	0.052	0.056	0.090	280.132895	-5.707615	-782.90	1379.50
7	GUIDE	671748480	6.92	4954	-0.002	-0.160	0.082	0.135	279.462954	-6.796807	2385.03	-1950.56

## 2.4 Star Slots

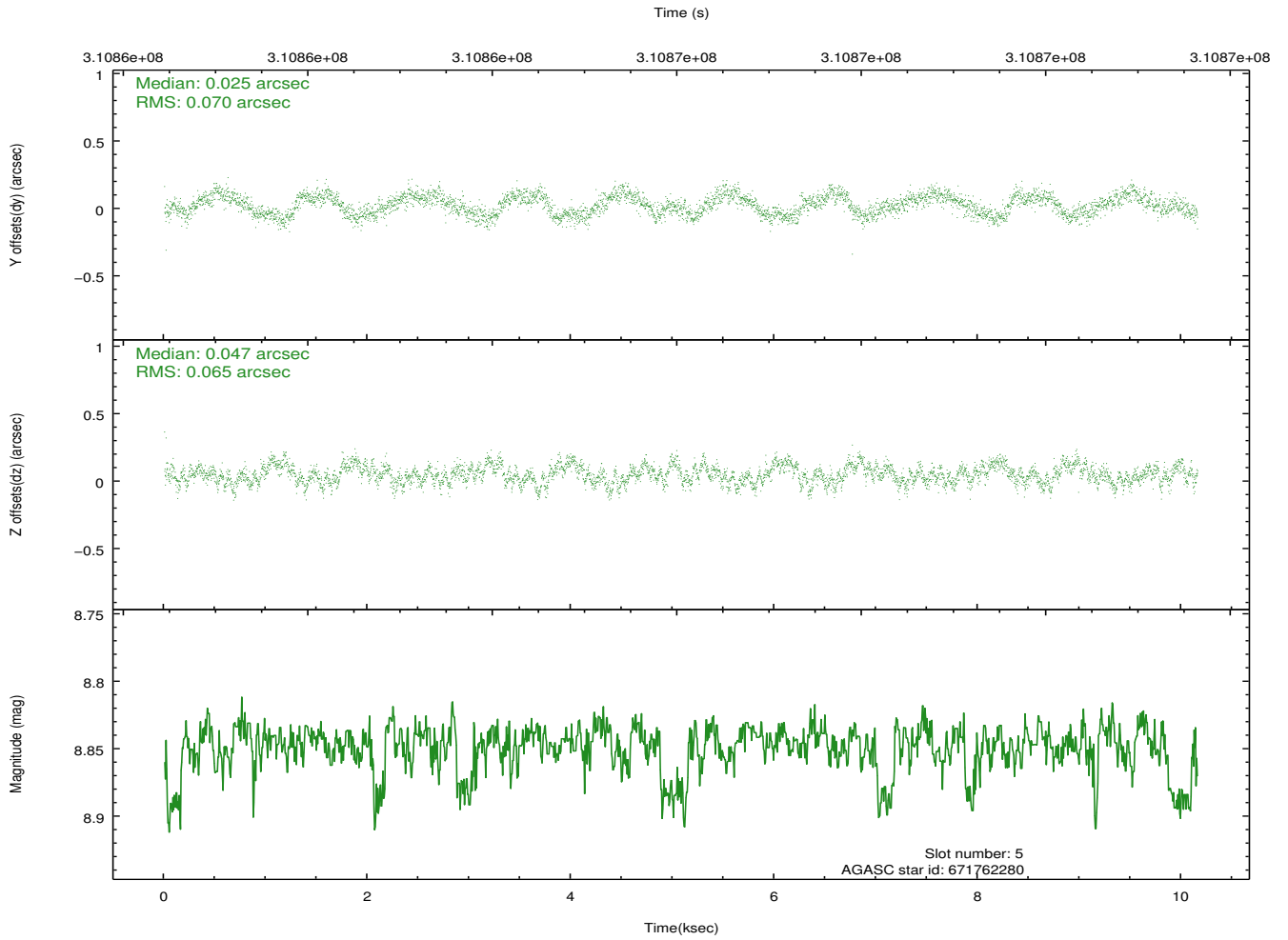
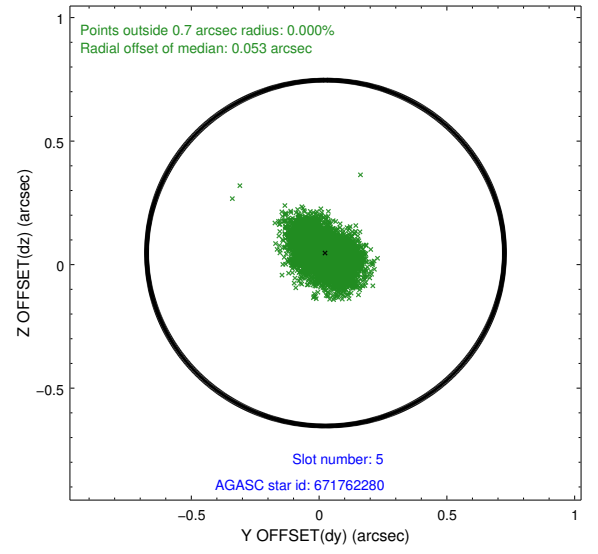
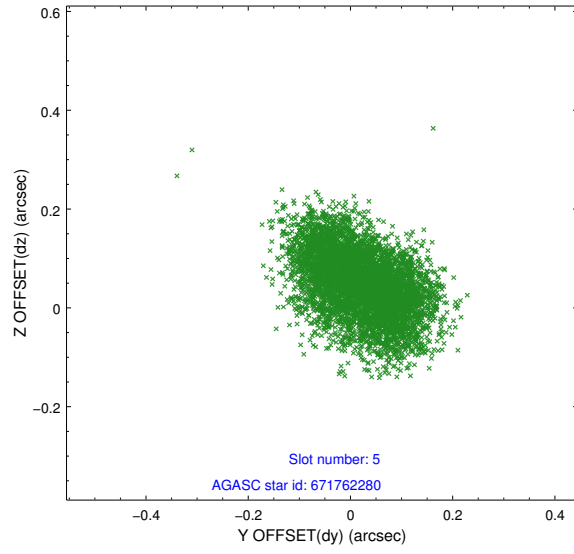
### 2.4.1 Slot 3



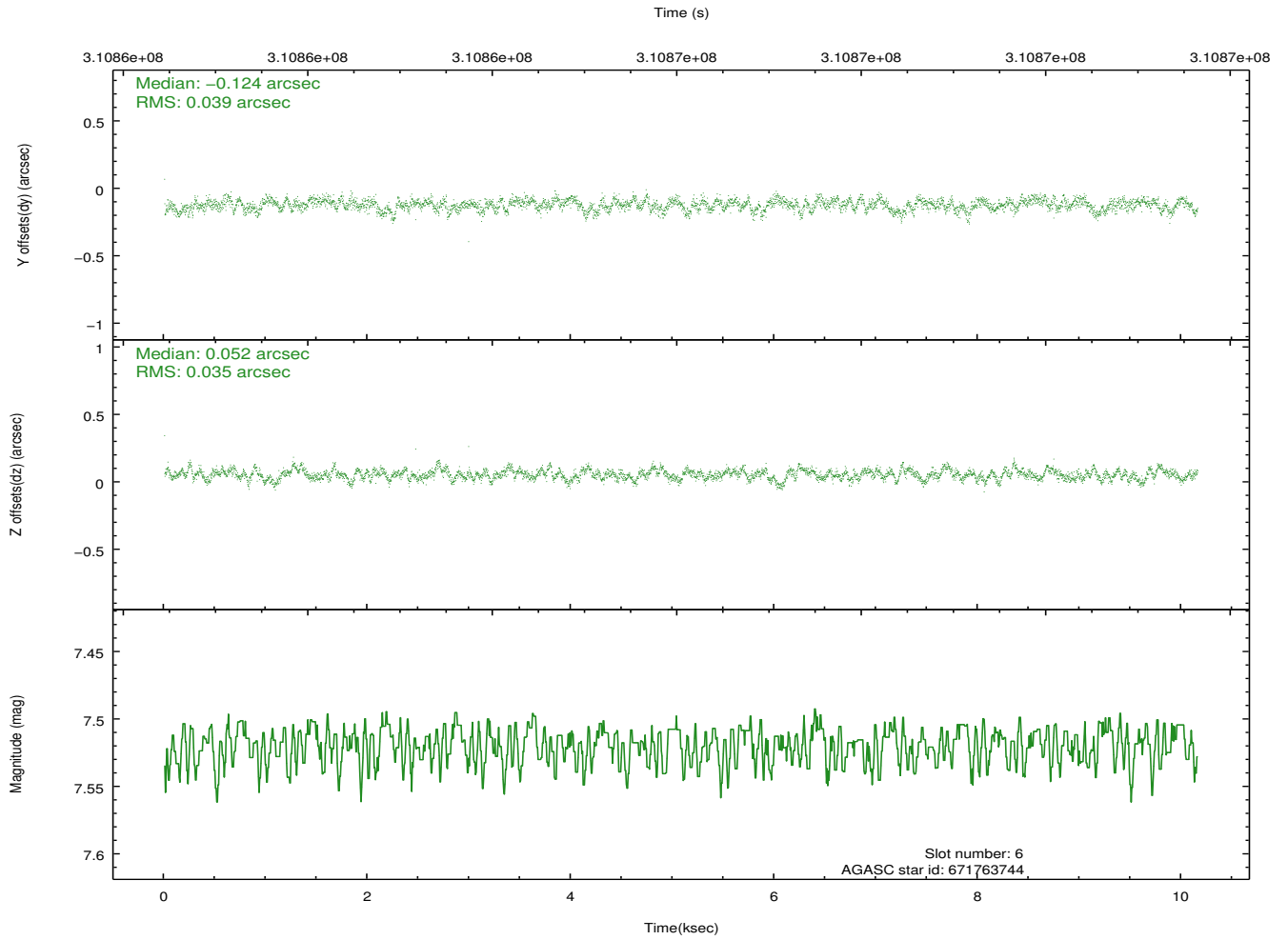
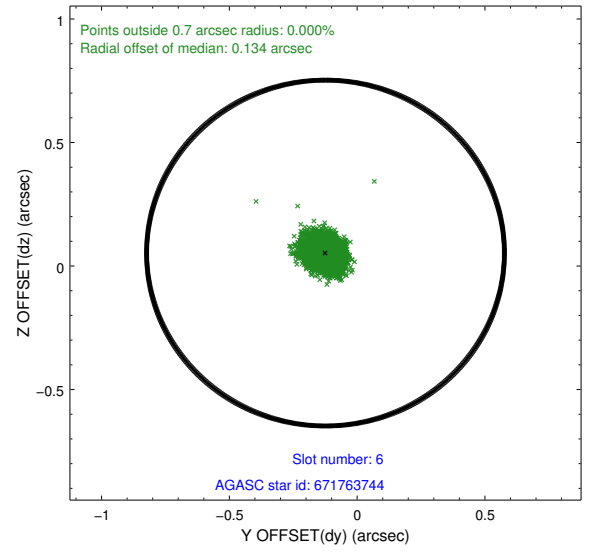
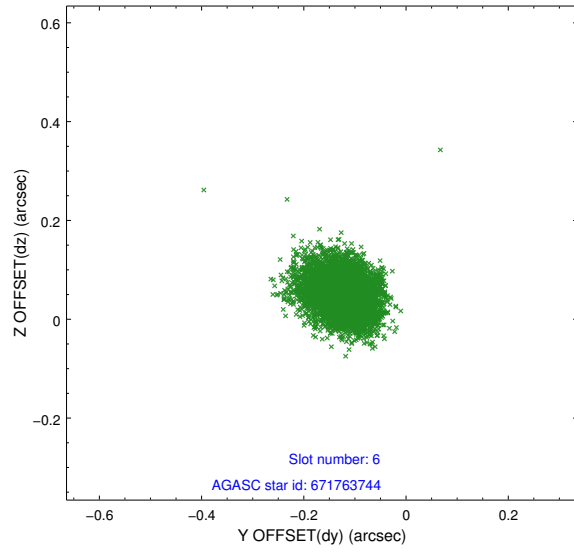
## 2.4.2 Slot 4



### 2.4.3 Slot 5

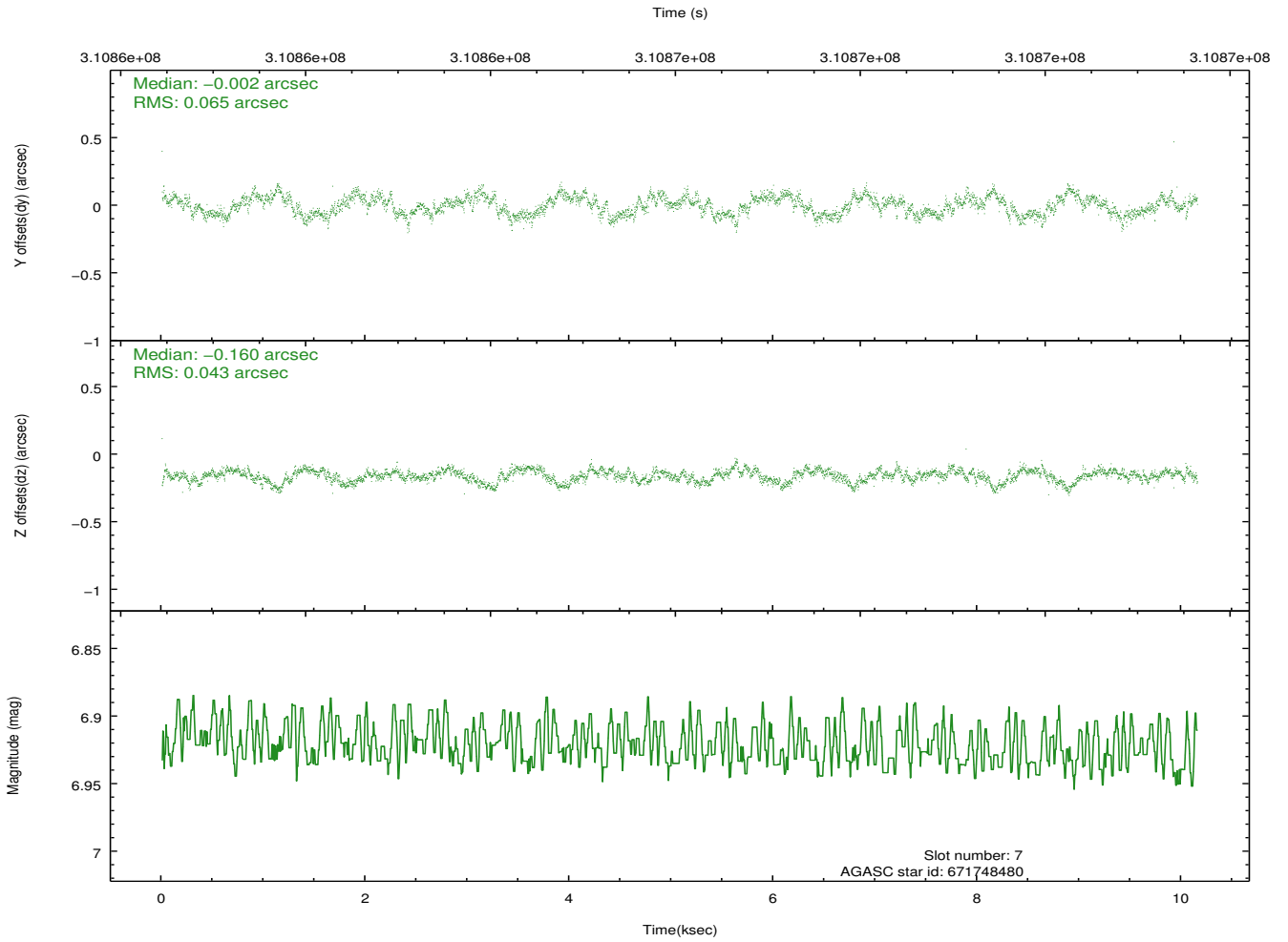
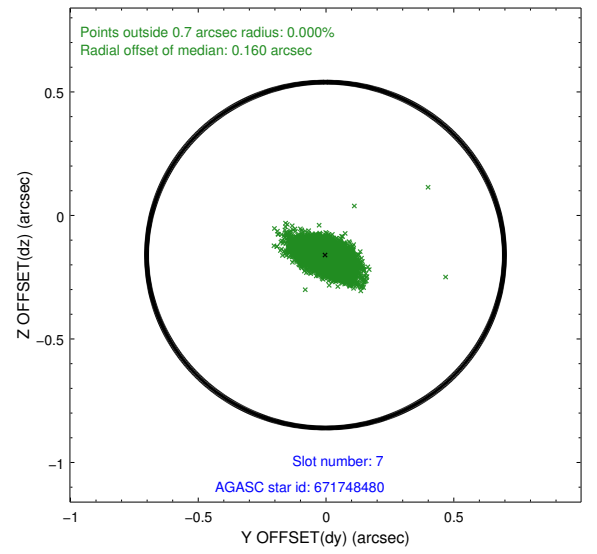
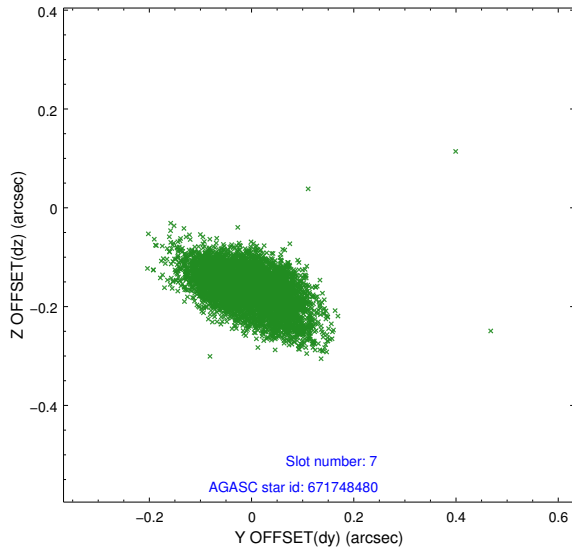


## 2.4.4 Slot 6



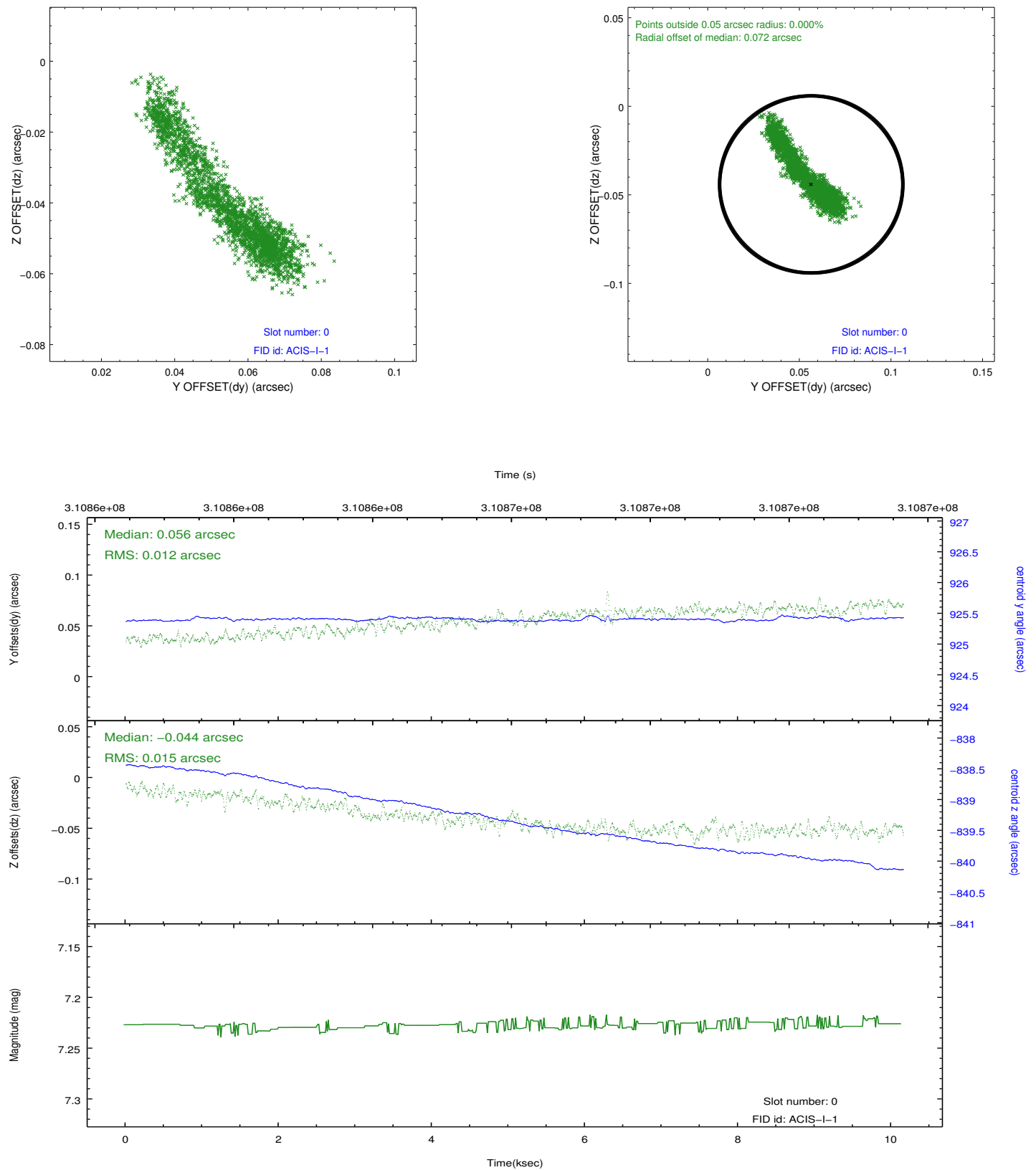


## 2.4.5 Slot 7

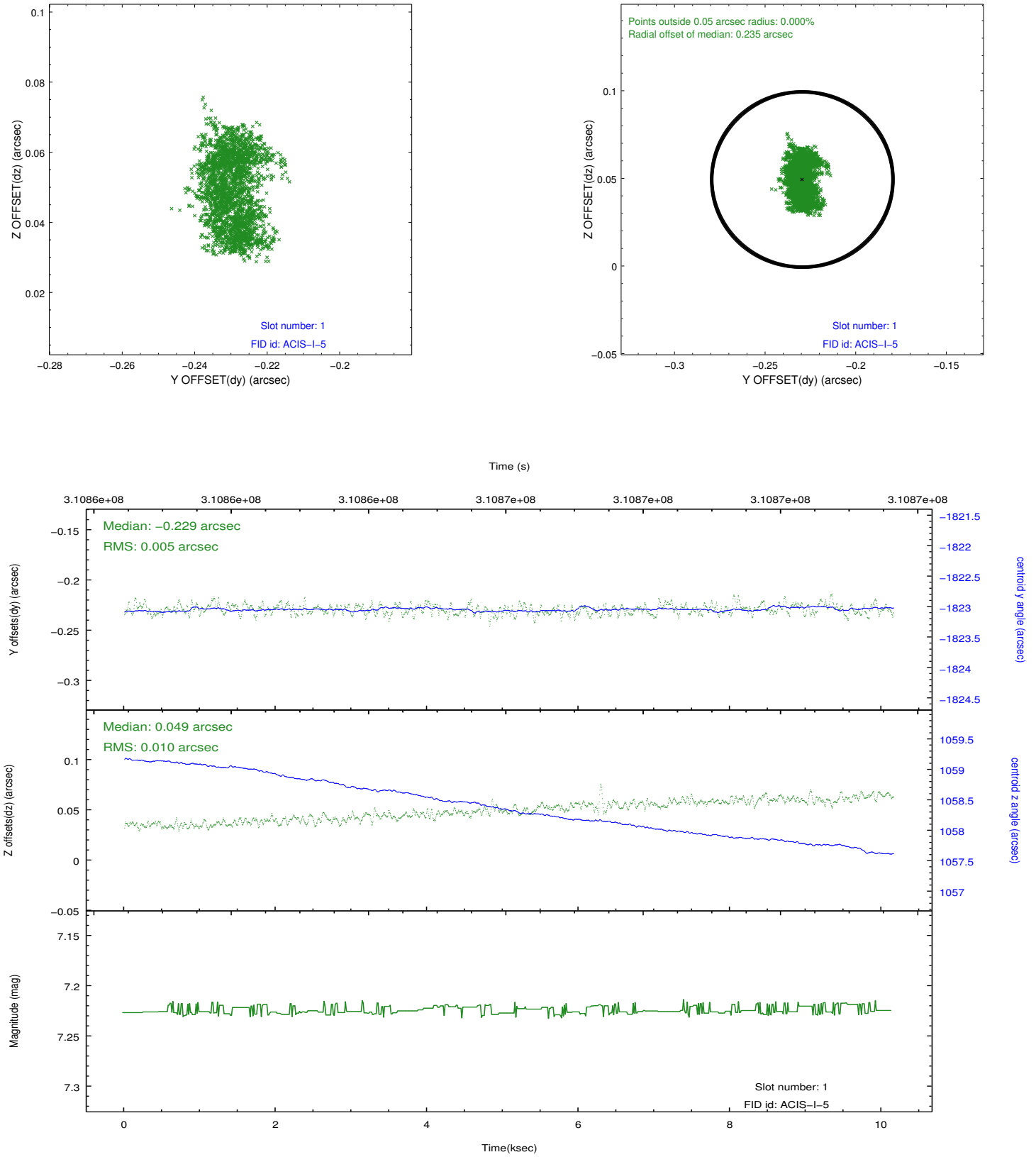


## 2.5 FID Slots

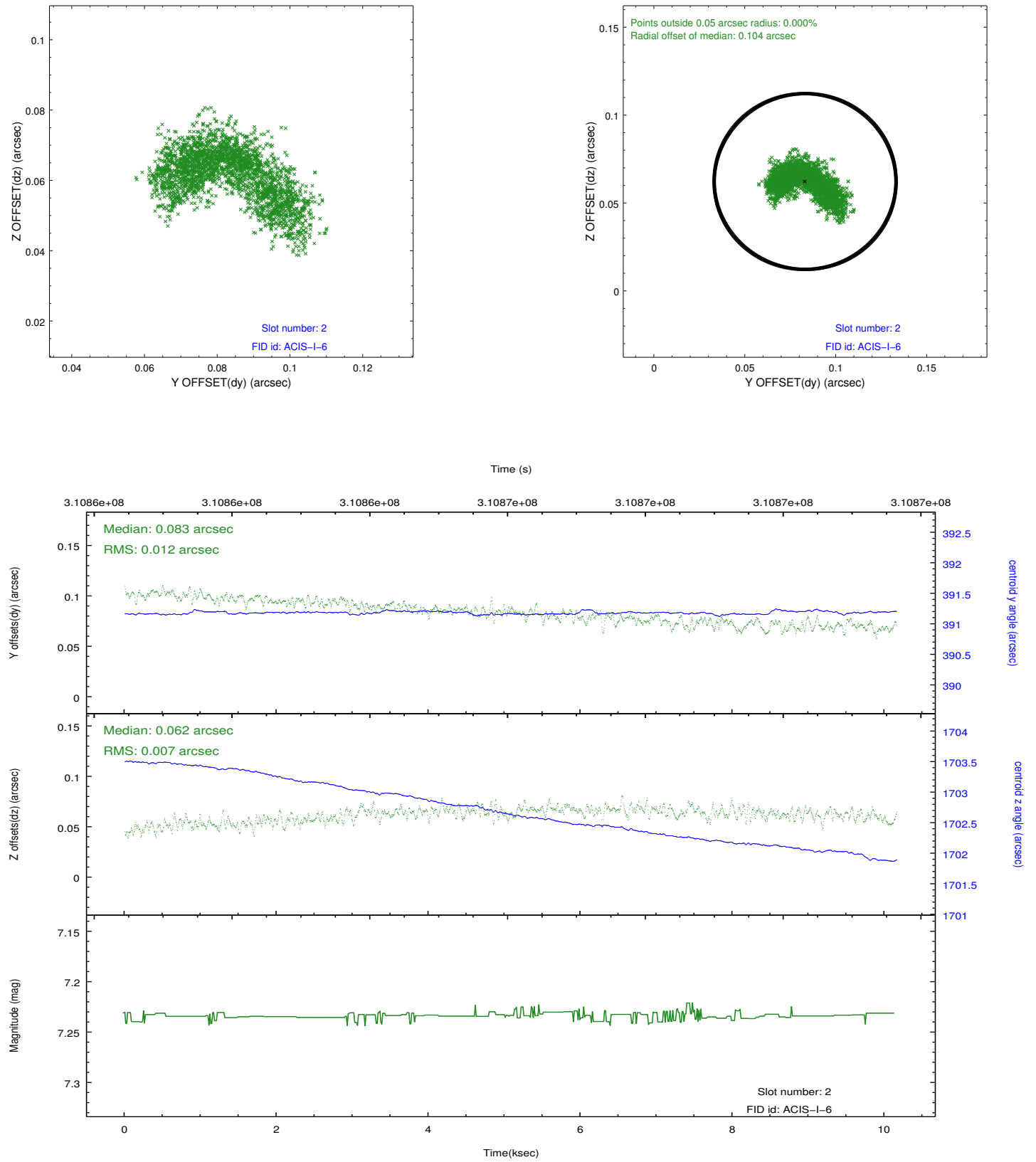
### 2.5.1 Slot 0



## 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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1503999

### A.2 Comments