

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9051 - L2 Version 2  
Chandra X-Ray Center

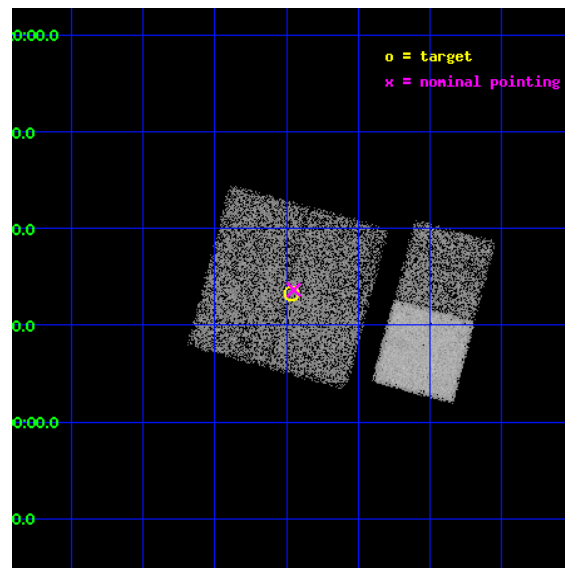
L2 Processing Date : May 13 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

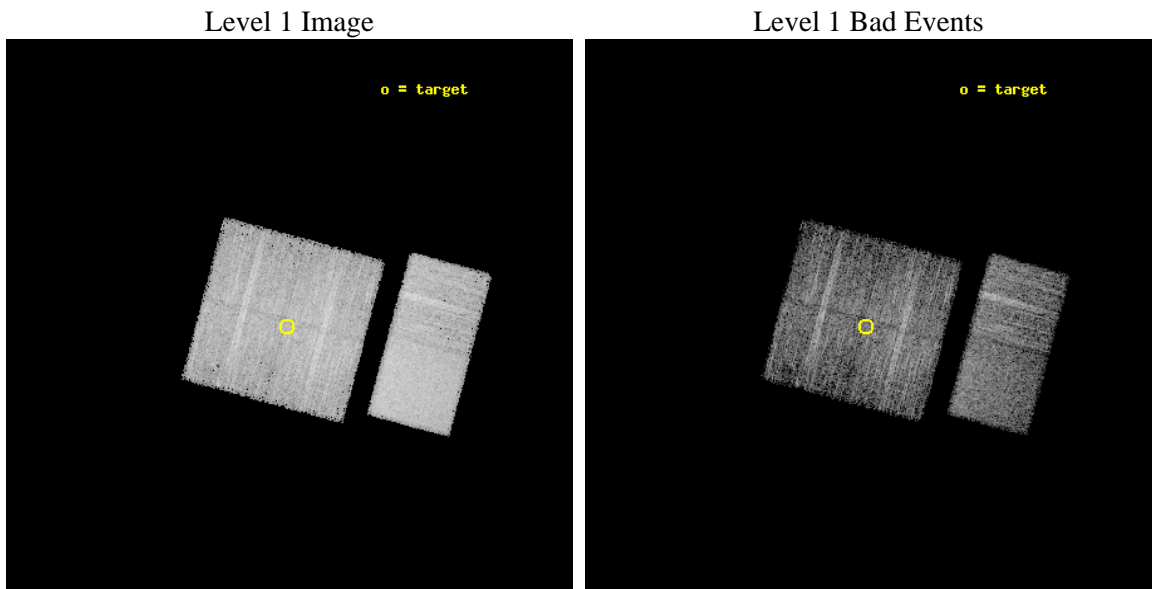
seq_num	400902	Sequence number
obs_id	9051	Observation id
title	Localization and Spectra of INTEGRAL-Selected Sources in the Galactic Plane	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	IGR J18485-0047	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.116667	Observer's specified target RA [deg]
dec_targ	-0.778889	Observer's specified target Dec [deg]
ra_nom	282.11207367575	Nominal RA [deg]
dec_nom	-0.77228306306647	Nominal Dec [deg]
roll_nom	105.0523874231	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4755.1999823451	Sum of GTIs [s]
livetime	4694.986776931	Livetime [s]
ontime0	4755.1999823451	Sum of GTIs [s]
ontime1	4755.1999823451	Sum of GTIs [s]
ontime2	4755.1999823451	Sum of GTIs [s]
ontime3	4755.1999823451	Sum of GTIs [s]
ontime6	4751.95898211	Sum of GTIs [s]
ontime7	4755.1999823451	Sum of GTIs [s]
l2events	50365	Number of level 2 events



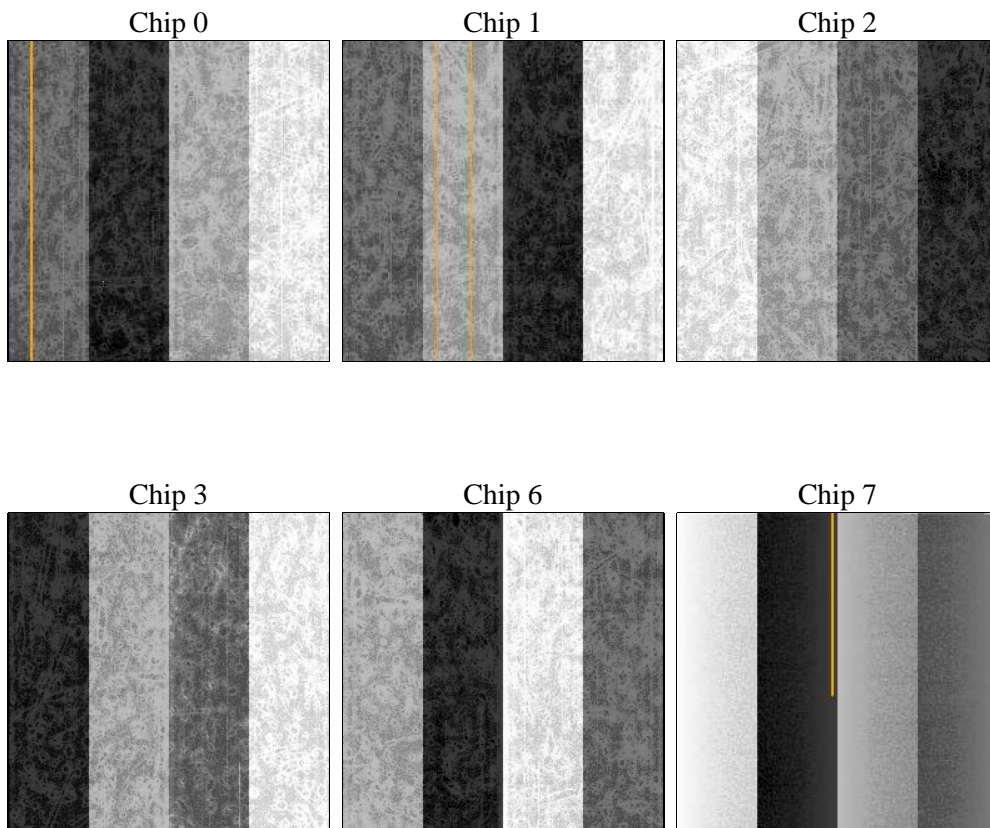
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4755.1999823451	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4755.1999823451	Sum of GTIs [s]
date	2012-05-13T12:47:47	Date and time of file creation	ontime1	4755.1999823451	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4755.1999823451	Sum of GTIs [s]
			ontime3	4755.1999823451	Sum of GTIs [s]
			ontime6	4751.95898211	Sum of GTIs [s]
			ontime7	4755.1999823451	Sum of GTIs [s]
			l1events	284092	Number of level 1 events

### 2.1.4 Events

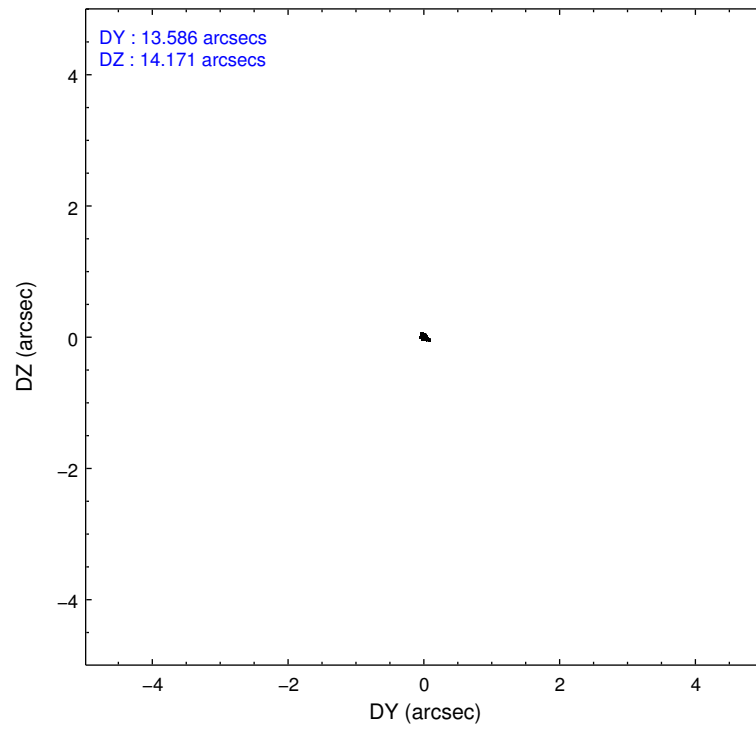
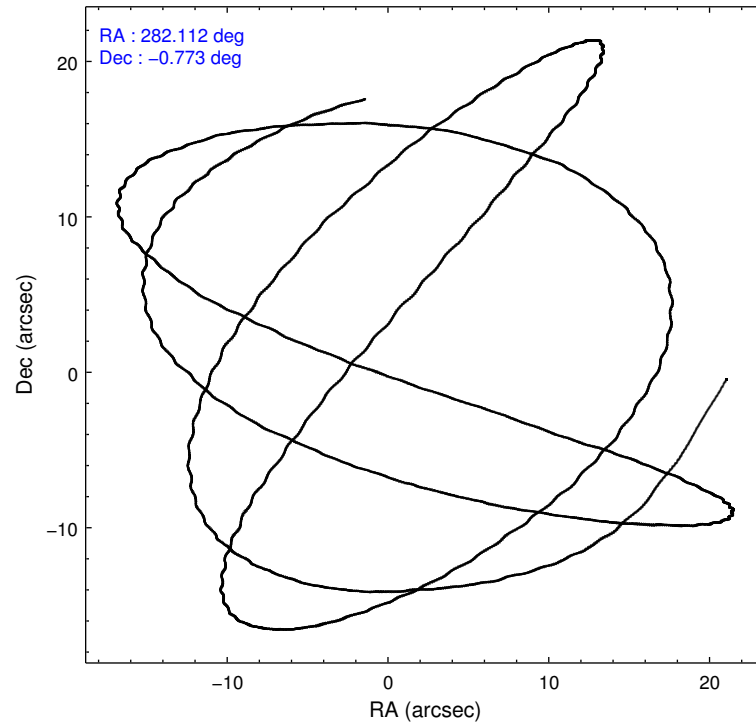
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	40617	41512	44808	46157	47870	63128	grade 0 events	2506	2476	2338	2671	2202	2182
rejected events	34810	35432	39380	40296	42264	37101		6%	5%	5%	5%	4%	3%
rejected %	85%	85%	87%	87%	88%	58%	grade 1 events	20	29	32	27	21	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1245	1432	1173	1163	1207	5181
								3%	3%	2%	2%	2%	8%
							grade 3 events	540	543	490	513	529	2251
								1%	1%	1%	1%	1%	3%
							grade 4 events	497	542	495	514	500	2169
								1%	1%	1%	1%	1%	3%
							grade 5 events	1904	1935	1790	2196	2296	6058
								4%	4%	3%	4%	4%	9%
							grade 6 events	1022	1095	943	1007	1174	14265
								2%	2%	2%	2%	2%	22%
							grade 7 events	32883	33460	37547	38066	39941	30961
								80%	80%	83%	82%	83%	49%

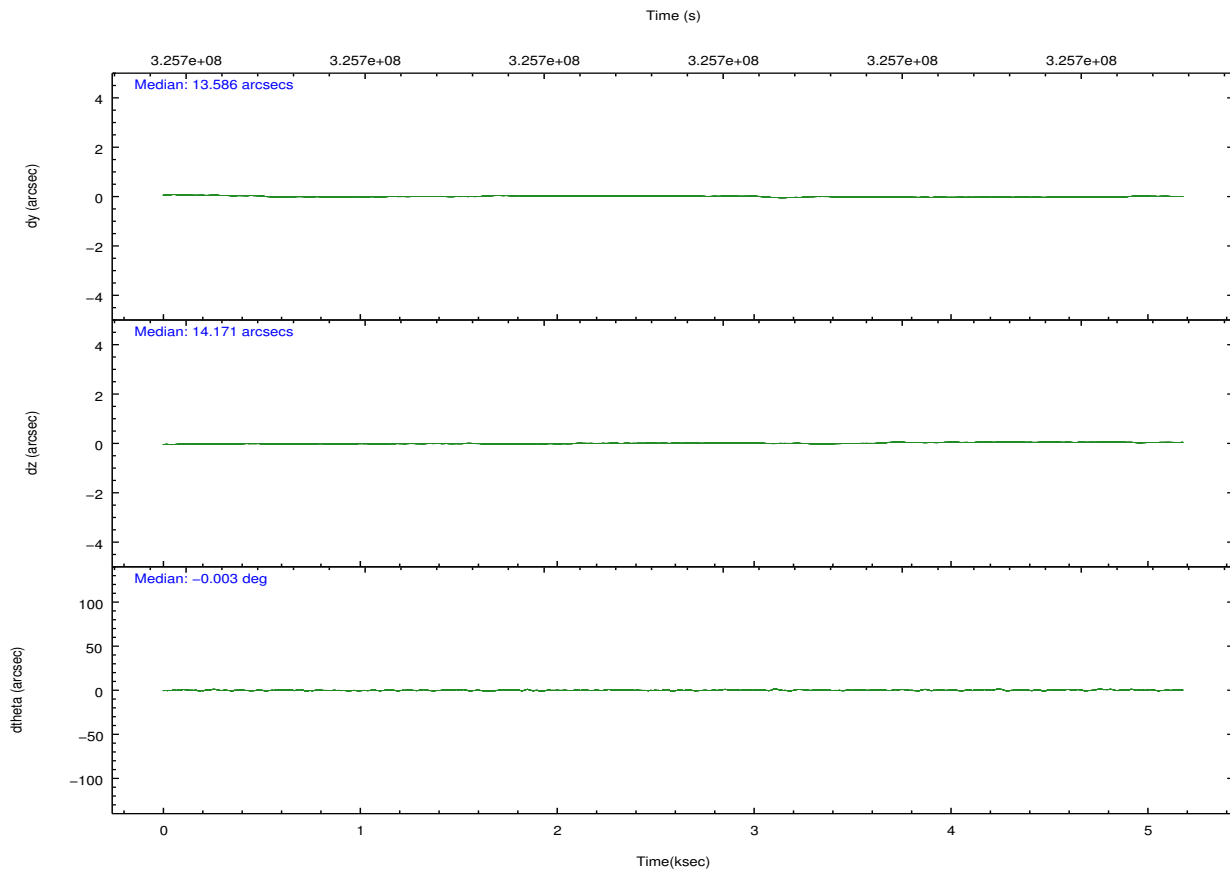
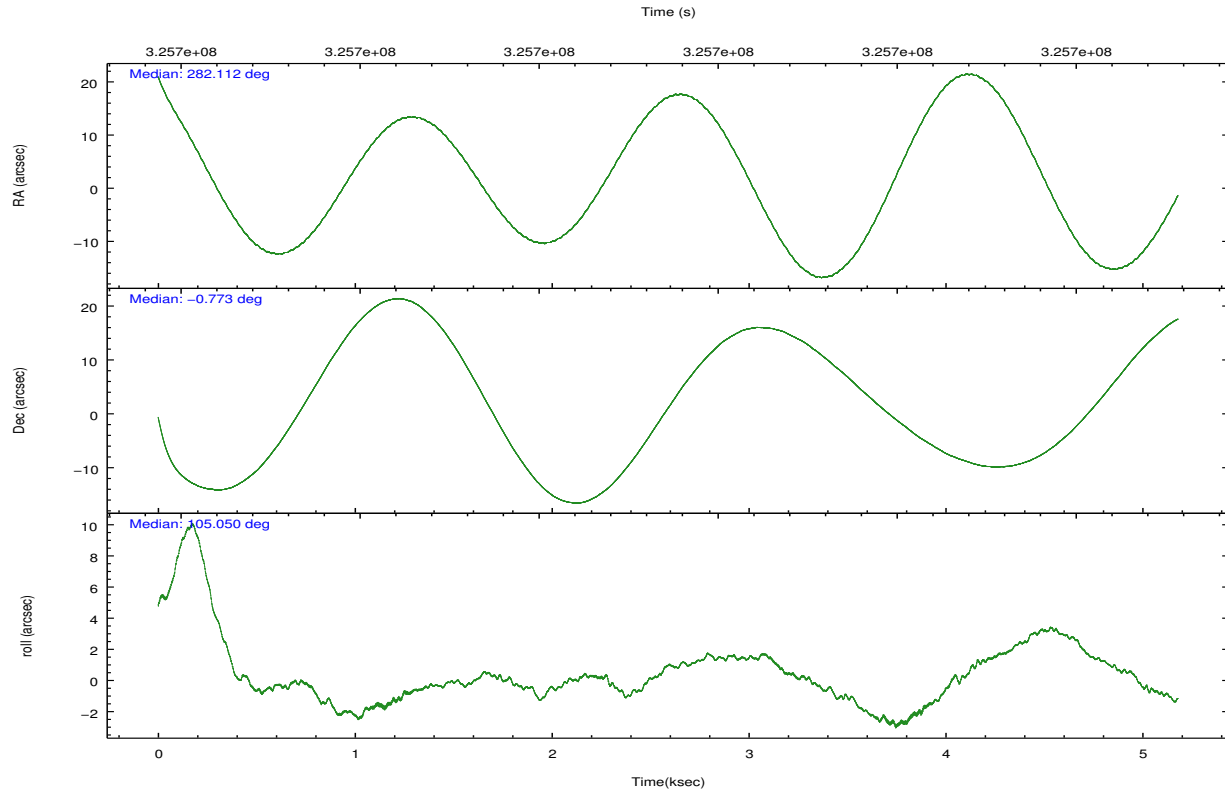


## 2.2 Compared Parameters

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	282.131878	282.1120736757542	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.791406	-0.7722830630664723	CCD I3 on	Y	Y
[deg] Pointing Roll	104.843967	105.0523874230993	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)	325696306.184000	325695498.28407	CCD S5 on	N	N
Observation start date	2008-04-27T15:10:41	2008-04-27T14:58:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	325701306.184000	325701681.08437	On-chip summing requested	N	N
Observation end date	2008-04-27T16:34:01	2008-04-27T16:41:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



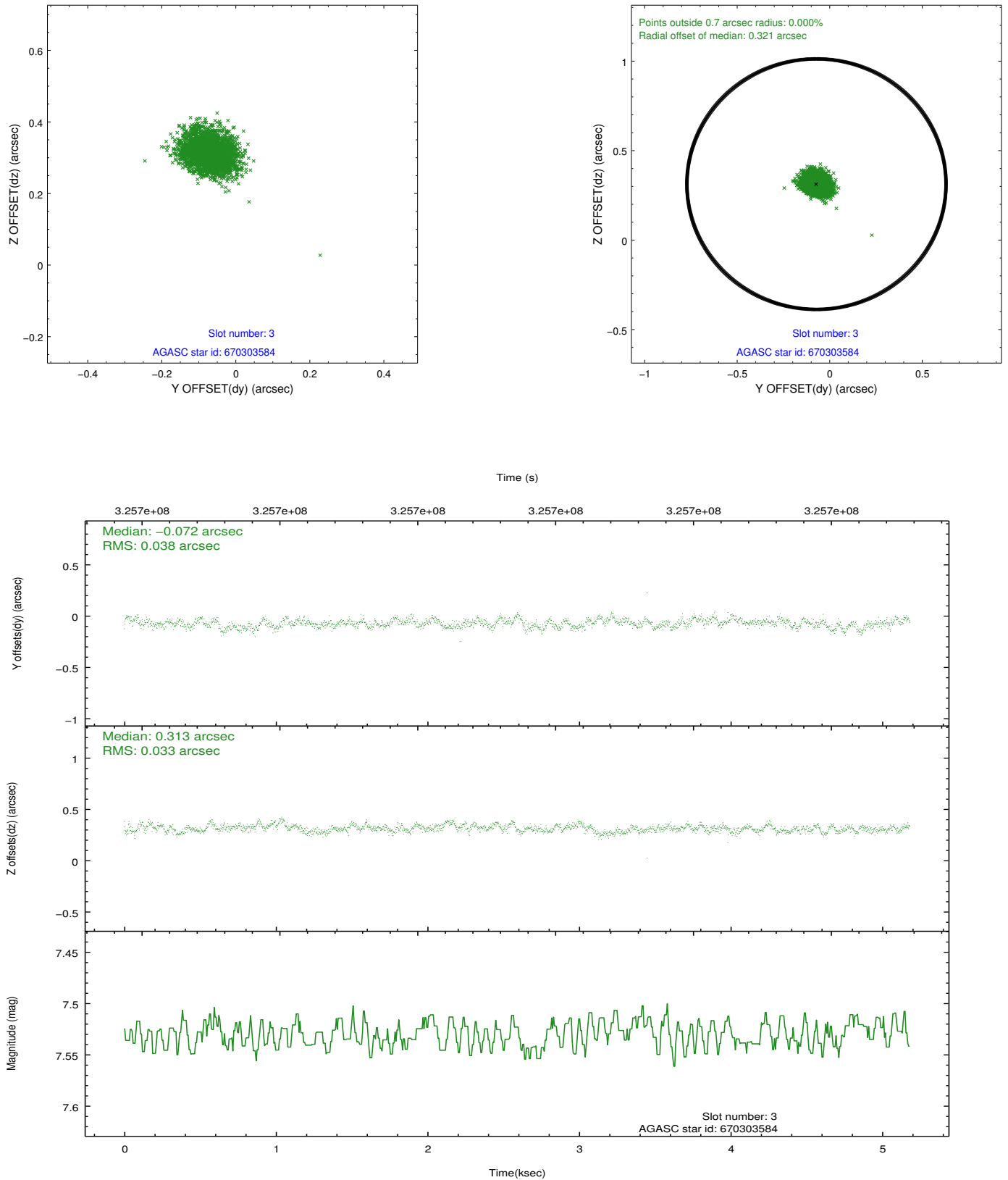


### Slot Statistics

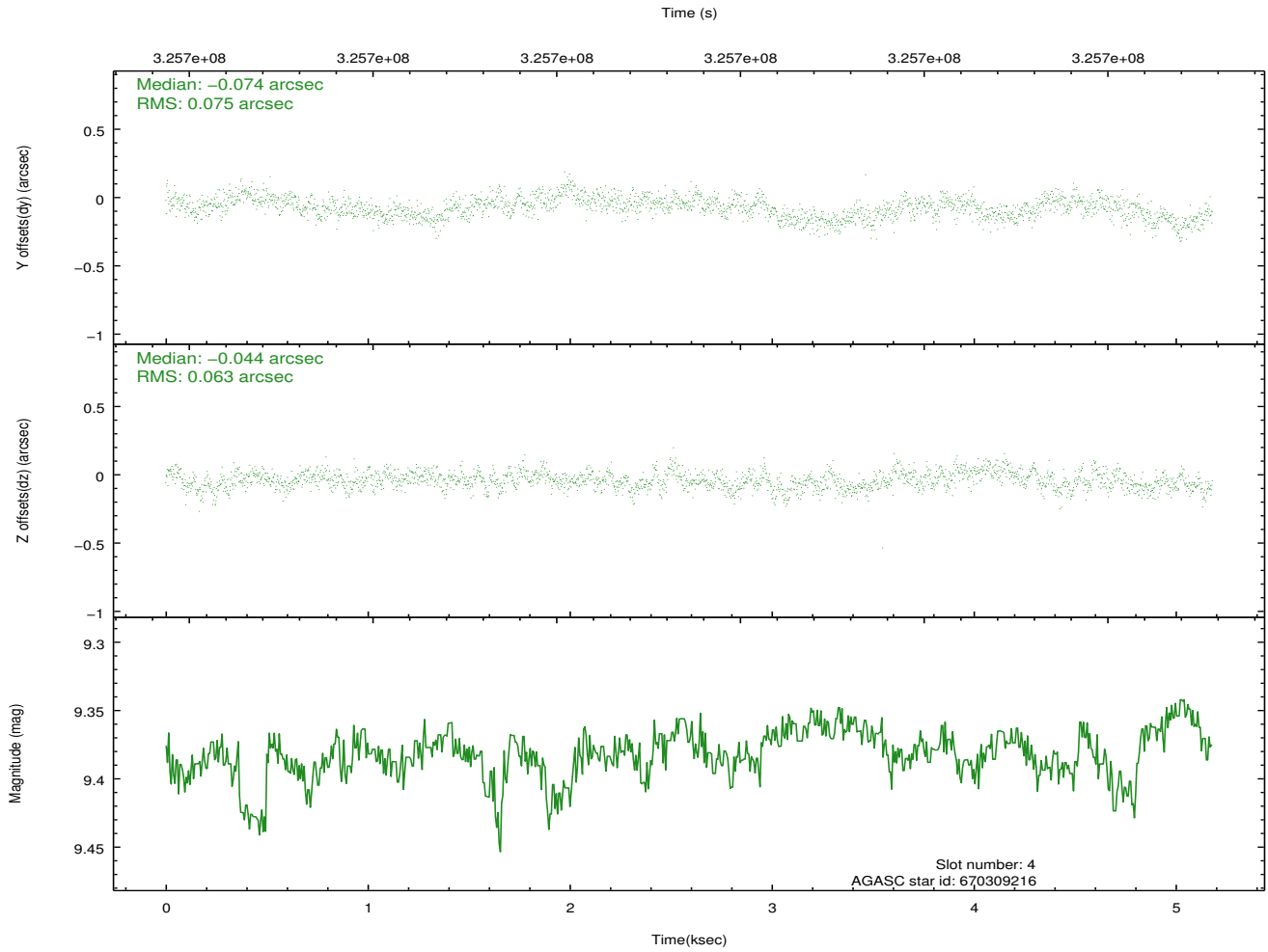
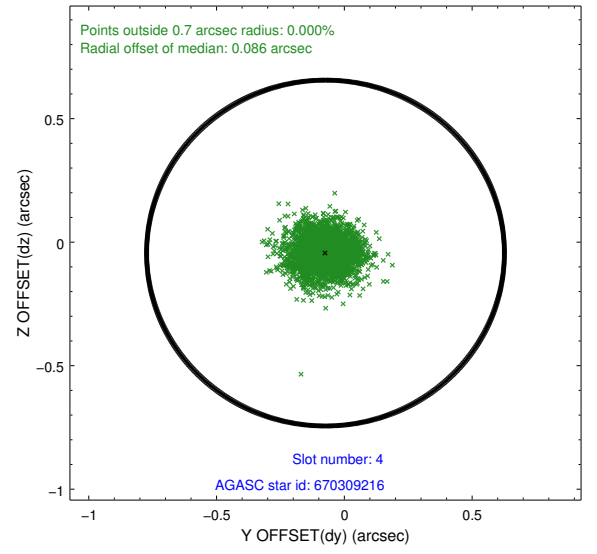
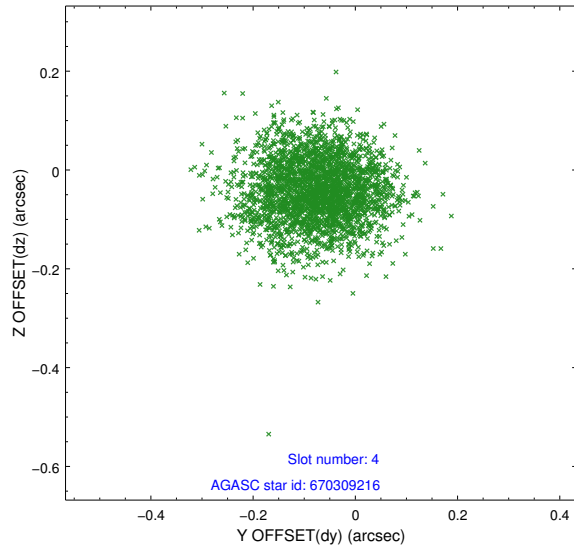
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	1264	0.008	0.041	0.006	0.011	0.000000	0.000000	925.93	-837.70
1	FID	ACIS-I-5	7.03	1264	-0.189	0.027	0.006	0.010	0.000000	0.000000	-1821.75	1059.15
2	FID	ACIS-I-6	7.04	1264	0.090	0.002	0.007	0.012	0.000000	0.000000	390.25	1704.98
3	GUIDE	670303584	7.53	2528	-0.072	0.313	0.054	0.086	282.662062	-0.360708	1010.77	-2243.05
4	GUIDE	670309216	9.38	2527	-0.074	-0.044	0.104	0.167	282.086973	-0.405754	1384.72	-201.31
5	GUIDE	670309376	8.26	2527	-0.164	-0.166	0.074	0.120	281.935099	-0.236180	2115.35	171.72
6	GUIDE	670312032	8.14	2528	0.154	-0.148	0.082	0.128	282.314405	-0.981452	-827.69	-460.91
7	GUIDE	670317248	9.09	2508	0.159	0.041	0.092	0.148	282.282657	-0.892294	-489.39	-432.87

## 2.4 Star Slots

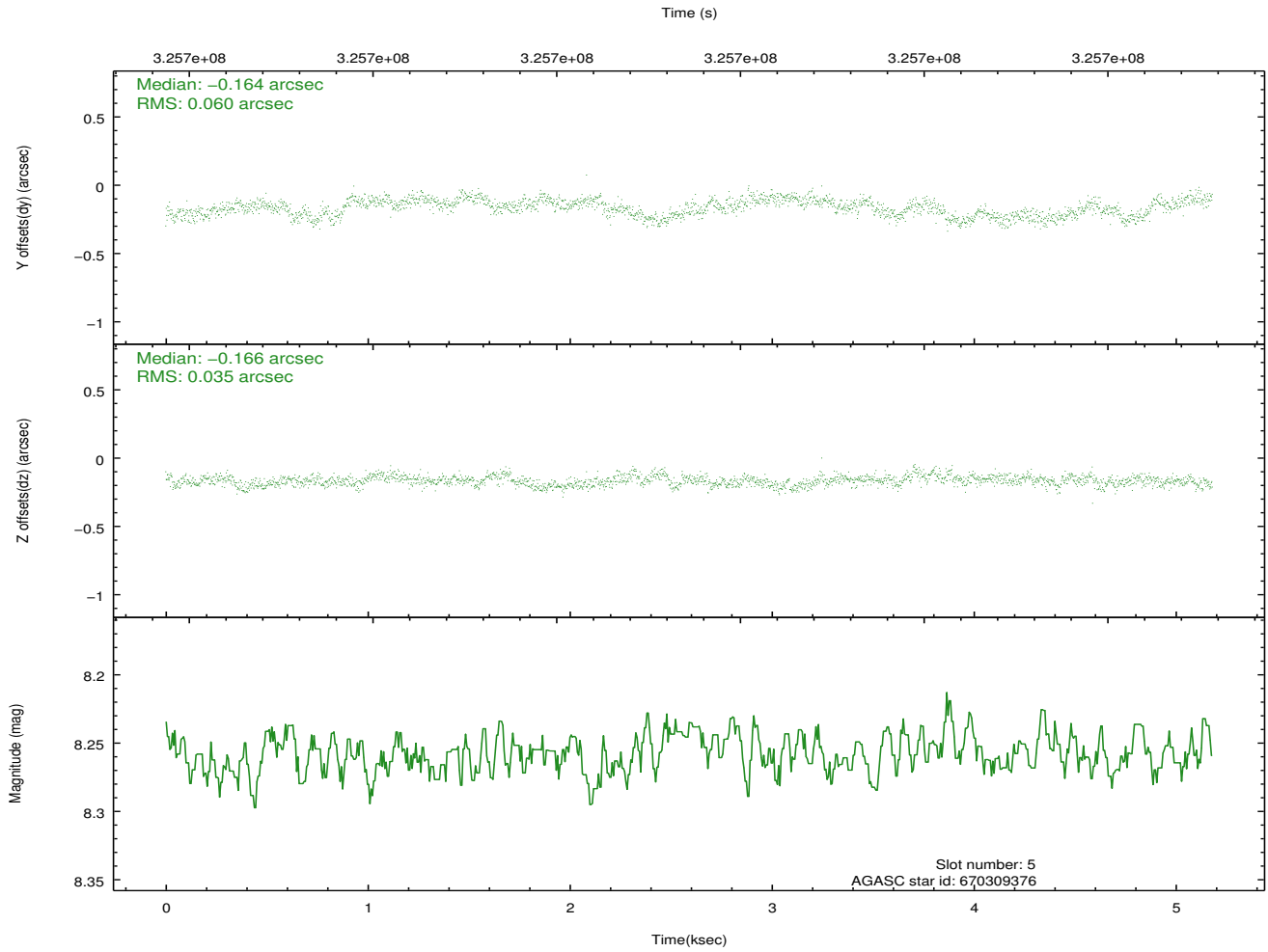
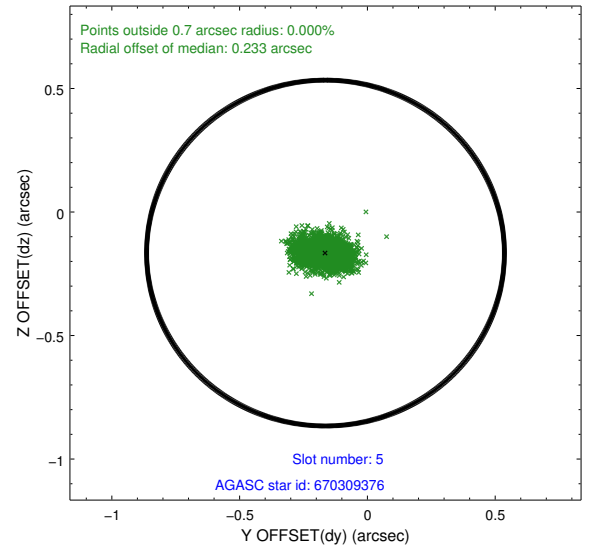
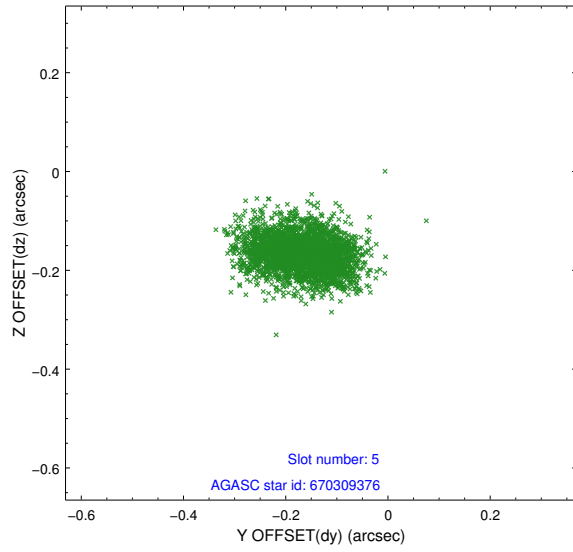
### 2.4.1 Slot 3



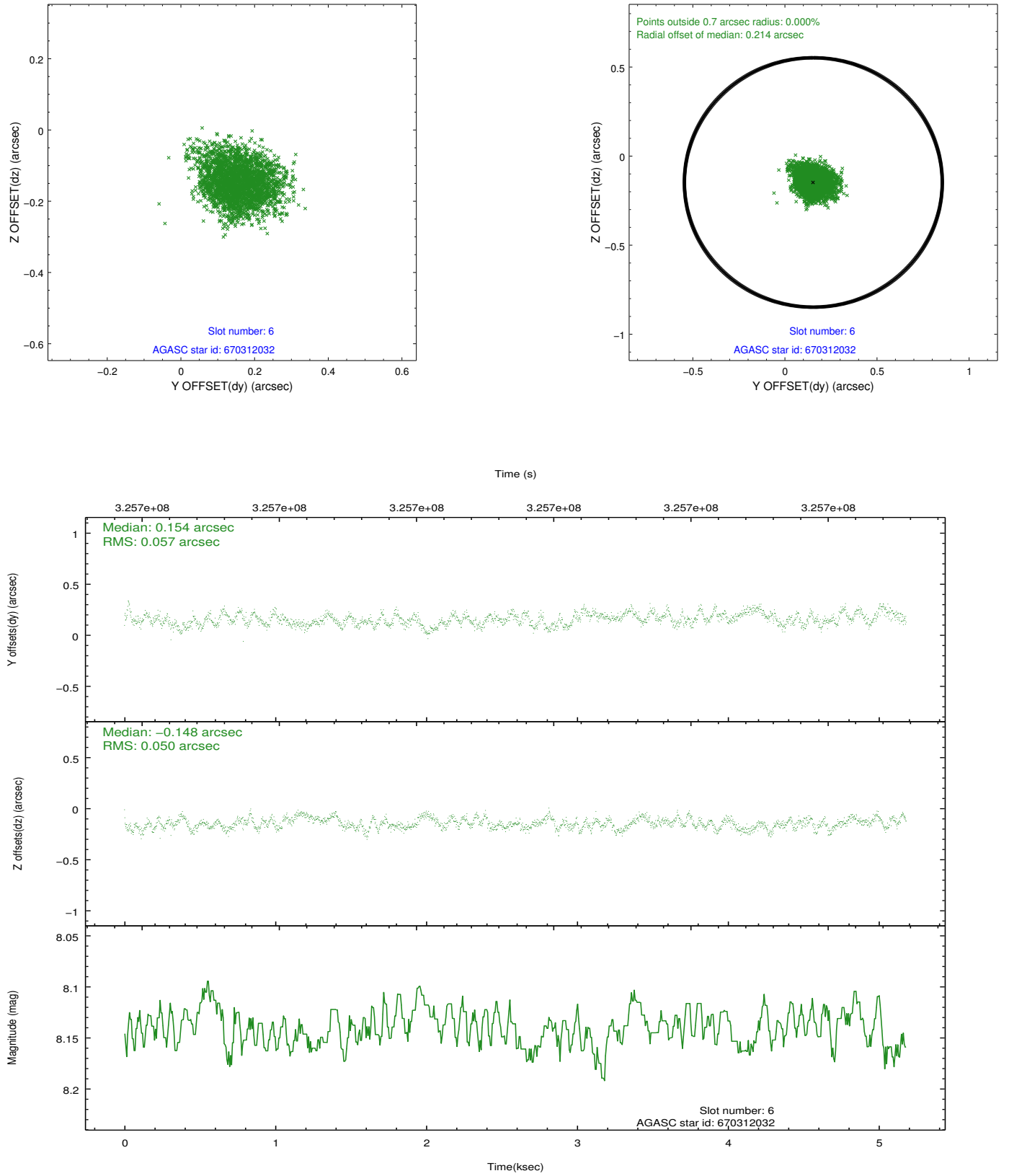
## 2.4.2 Slot 4



### 2.4.3 Slot 5

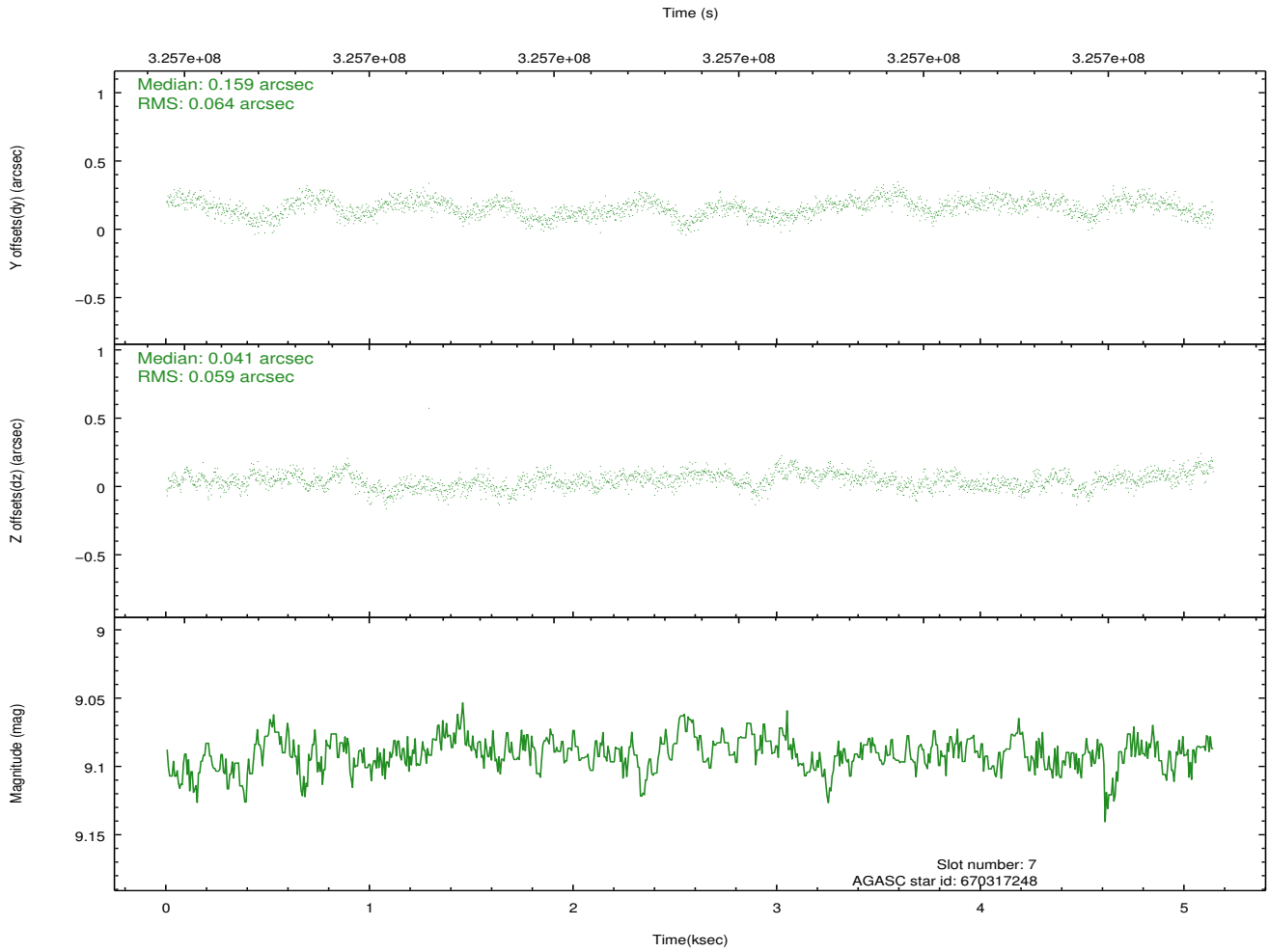
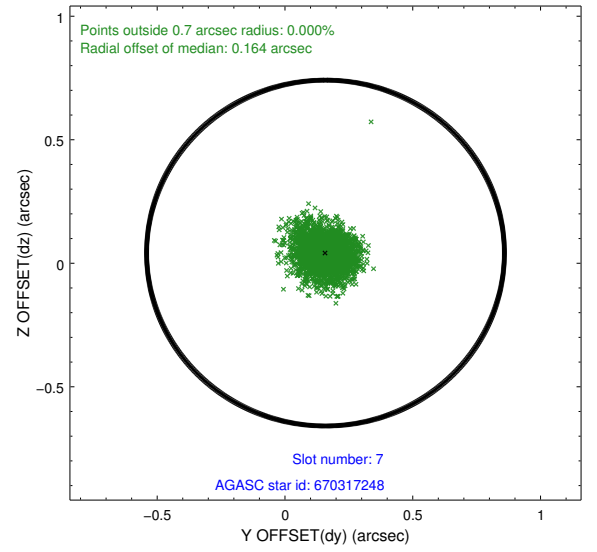
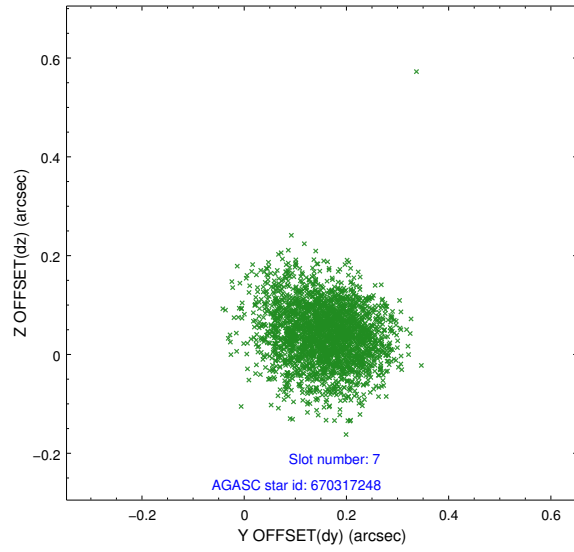


## 2.4.4 Slot 6



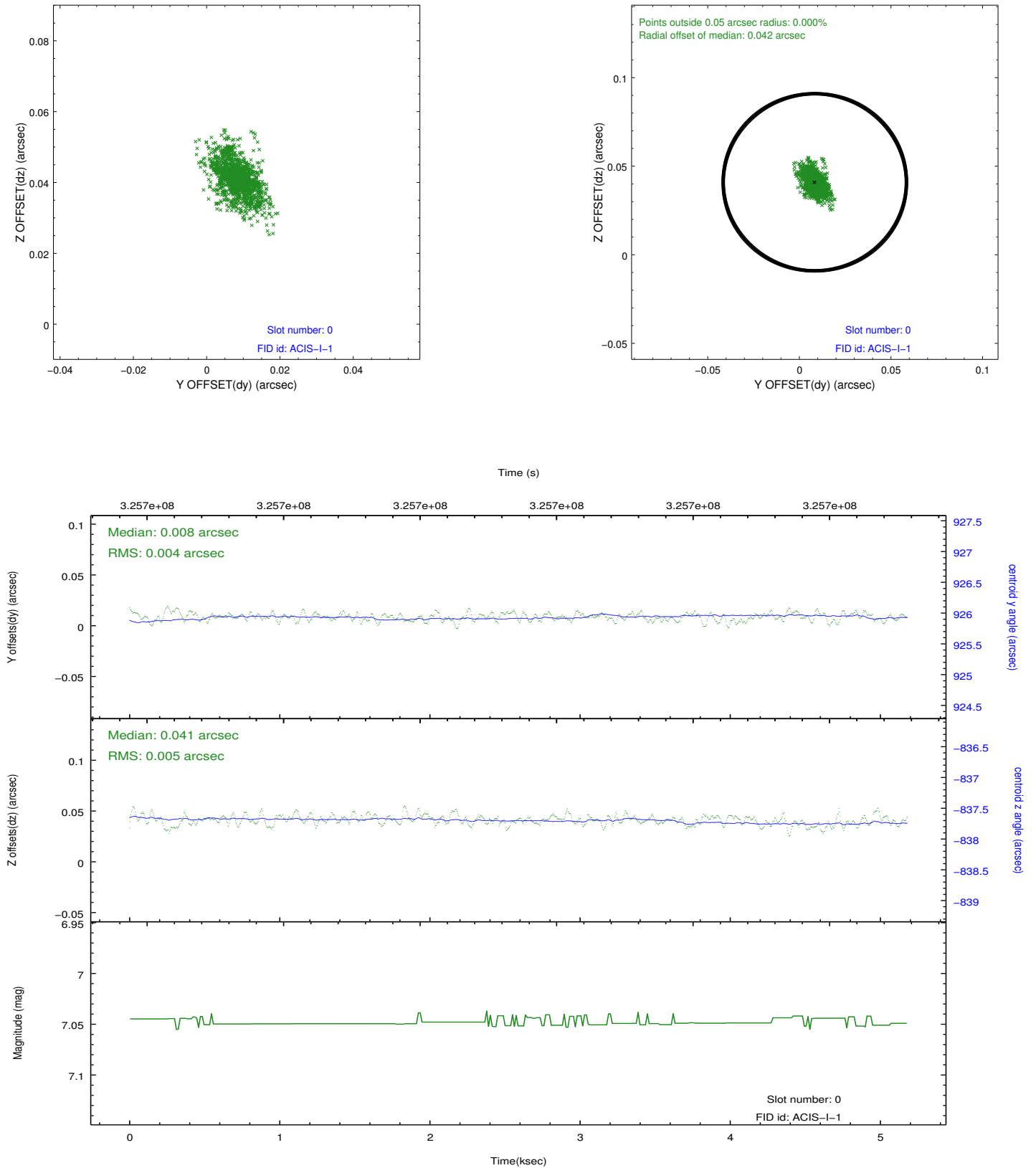


## 2.4.5 Slot 7

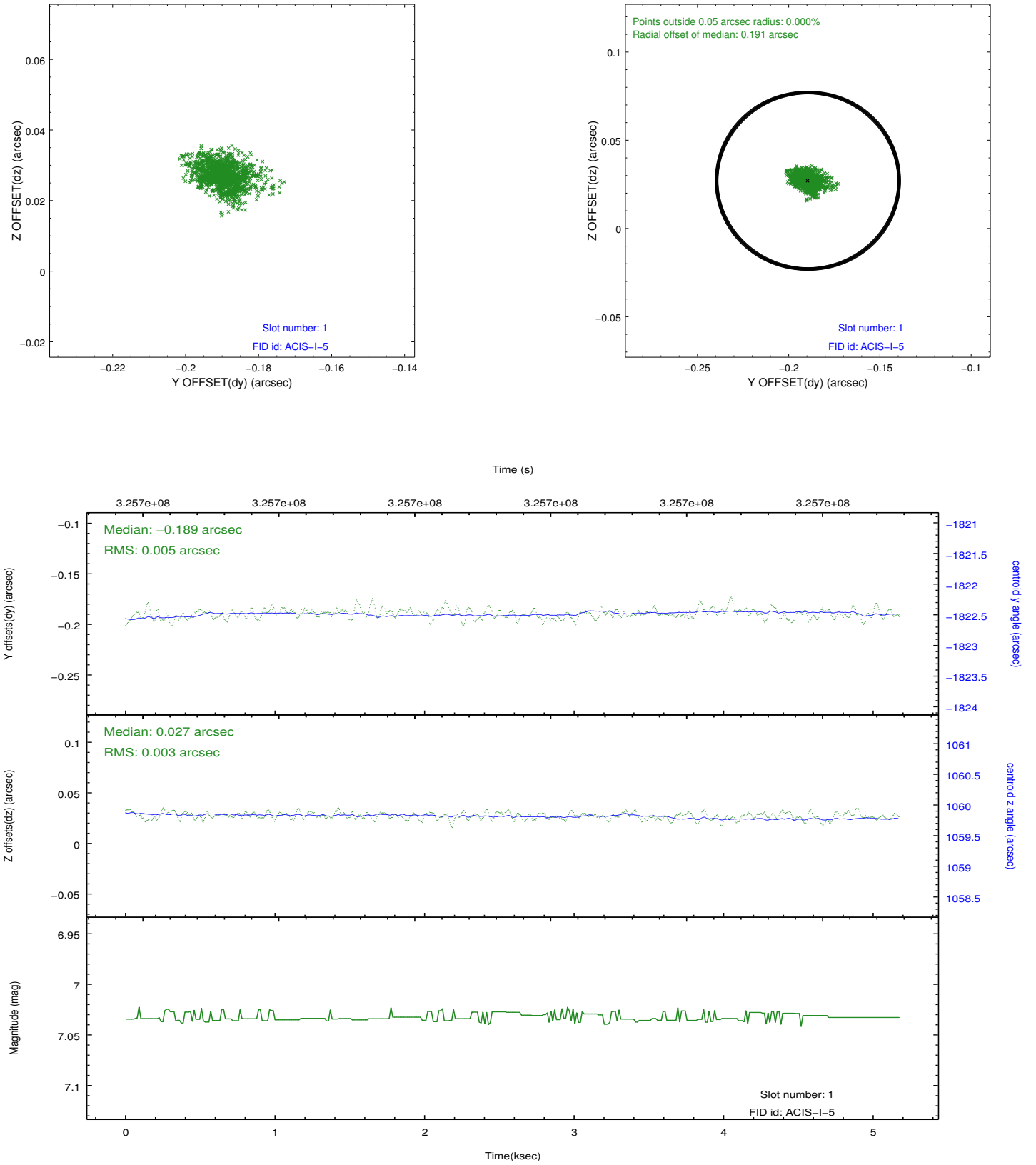


## 2.5 FID Slots

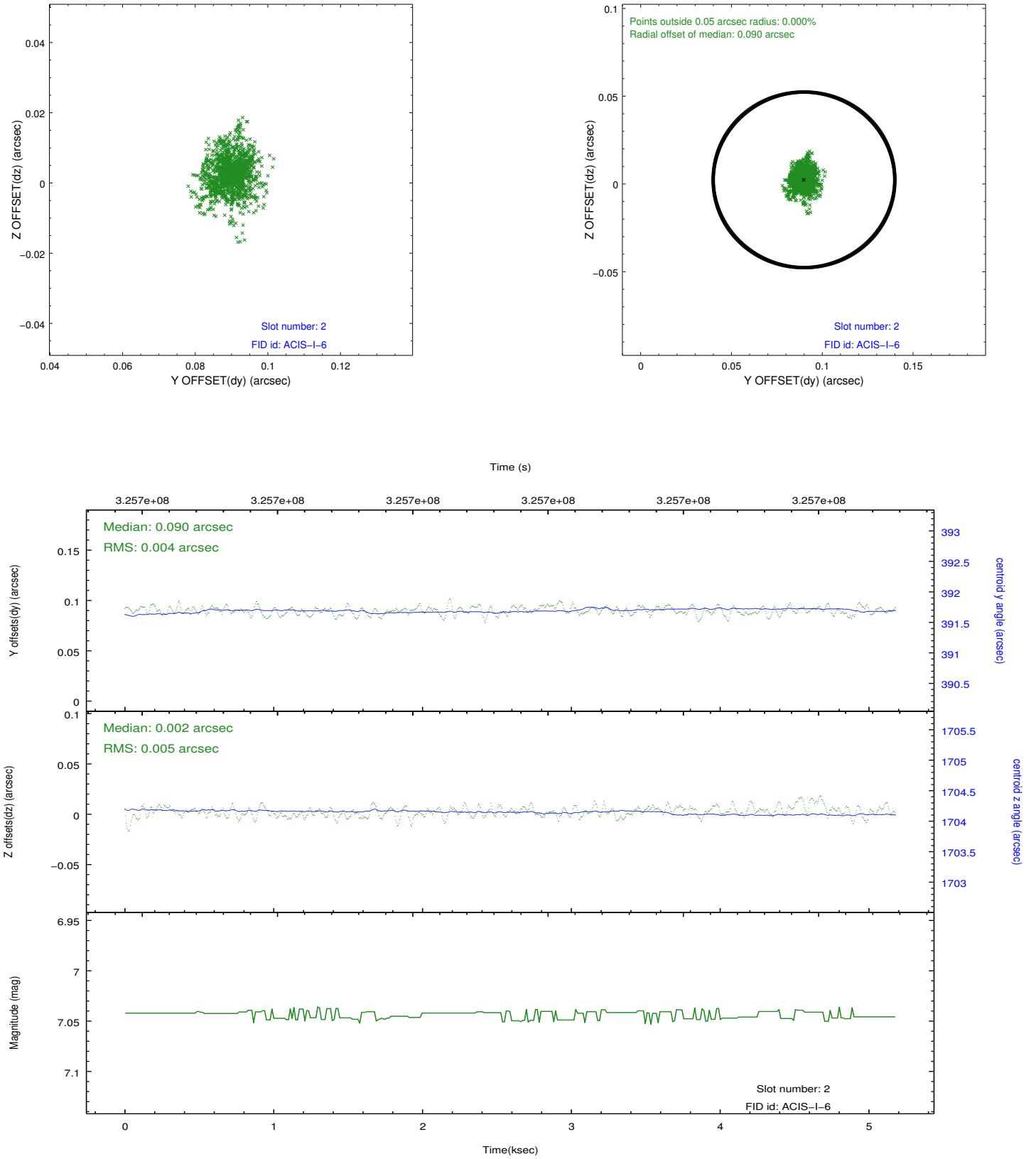
### 2.5.1 Slot 0



## 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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.75519998

## A.2 Comments

Joint proposal with NOAO.