

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9299 - L2 Version 2  
Chandra X-Ray Center

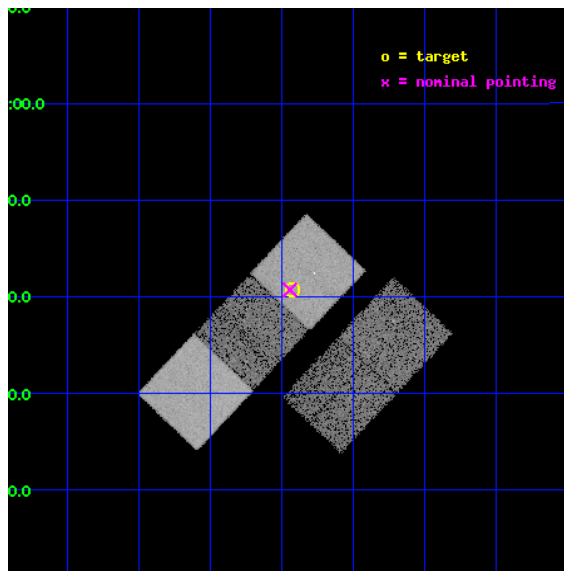
L2 Processing Date : May 7 2012

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# 1 Front

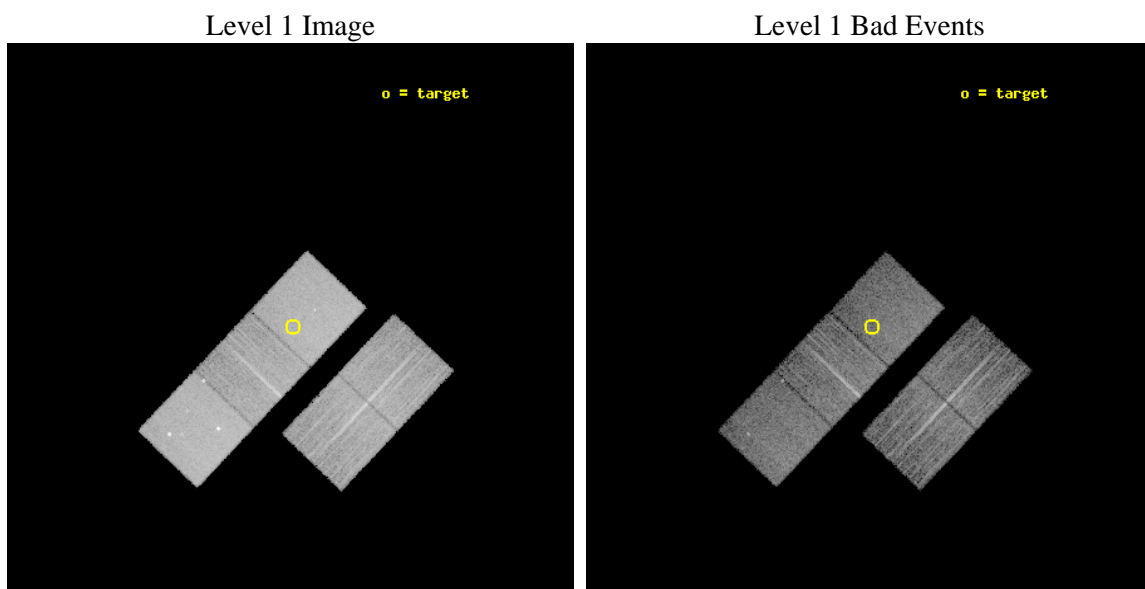
seq_num	701739	Sequence number
obs_id	9299	Observation id
title	Towards a Complete Sample: 3CR Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C105	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	61.85625	Observer's specified target RA [deg]
dec_targ	3.679861	Observer's specified target Dec [deg]
ra_nom	61.860921282046	Nominal RA [deg]
dec_nom	3.6786081392767	Nominal Dec [deg]
roll_nom	313.45921724298	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8177.8000628948	Sum of GTIs [s]
livetime	8070.9510846643	Livetime [s]
ontime2	8174.6590626836	Sum of GTIs [s]
ontime3	8177.8000628948	Sum of GTIs [s]
ontime5	8177.8000628948	Sum of GTIs [s]
ontime6	8177.8000628948	Sum of GTIs [s]
ontime7	8177.8000628948	Sum of GTIs [s]
l2events	120761	Number of level 2 events



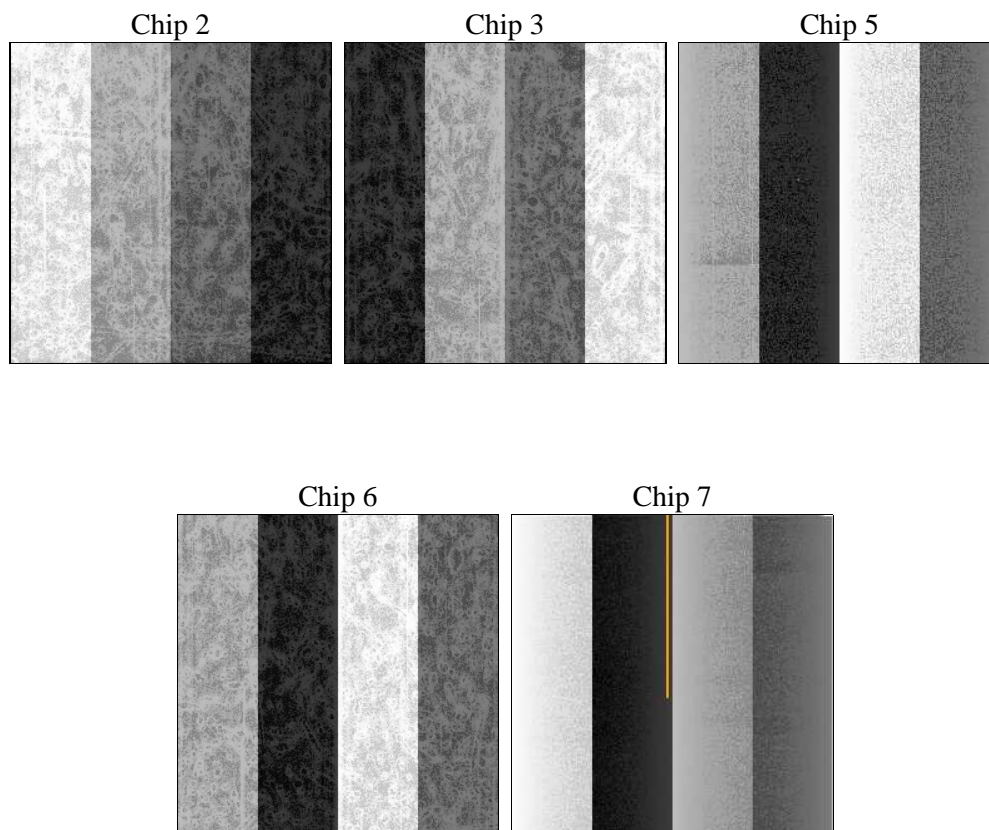
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8177.8000628948	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	8174.6590626836	Sum of GTIs [s]
date	2012-05-07T03:05:25	Date and time of file creation	ontime3	8177.8000628948	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	8177.8000628948	Sum of GTIs [s]
			ontime6	8177.8000628948	Sum of GTIs [s]
			ontime7	8177.8000628948	Sum of GTIs [s]
			l1events	491203	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	83133	81003	128483	84377	114207
rejected events	74111	71514	71924	74895	68571
rejected %	89%	88%	55%	88%	60%

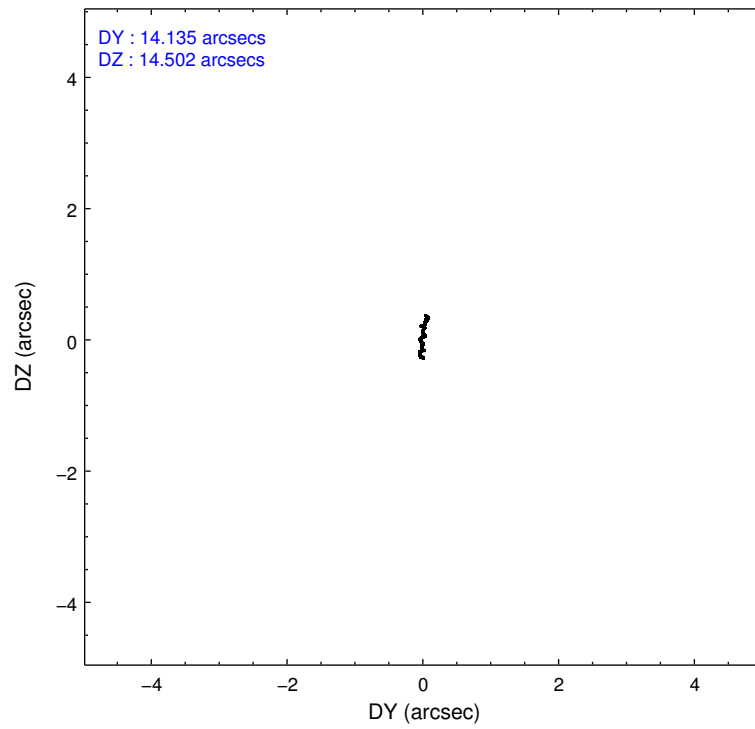
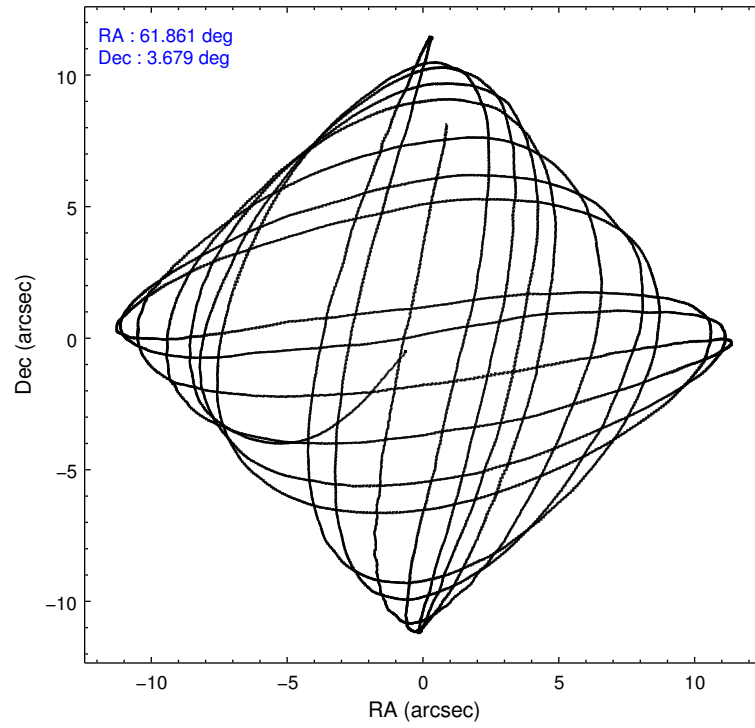
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4017	4253	6170	3824	4249
	4%	5%	4%	4%	3%
grade 1 events	56	45	380	49	120
	0%	0%	0%	0%	0%
grade 2 events	2122	1993	18399	2219	9792
	2%	2%	14%	2%	8%
grade 3 events	900	994	2103	882	4138
	1%	1%	1%	1%	3%
grade 4 events	866	927	2045	950	3984
	1%	1%	1%	1%	3%
grade 5 events	3162	3801	9112	4051	10909
	3%	4%	7%	4%	9%
grade 6 events	1605	1777	30799	2056	25822
	1%	2%	23%	2%	22%
grade 7 events	70405	67213	59475	70346	55193
	84%	82%	46%	83%	48%

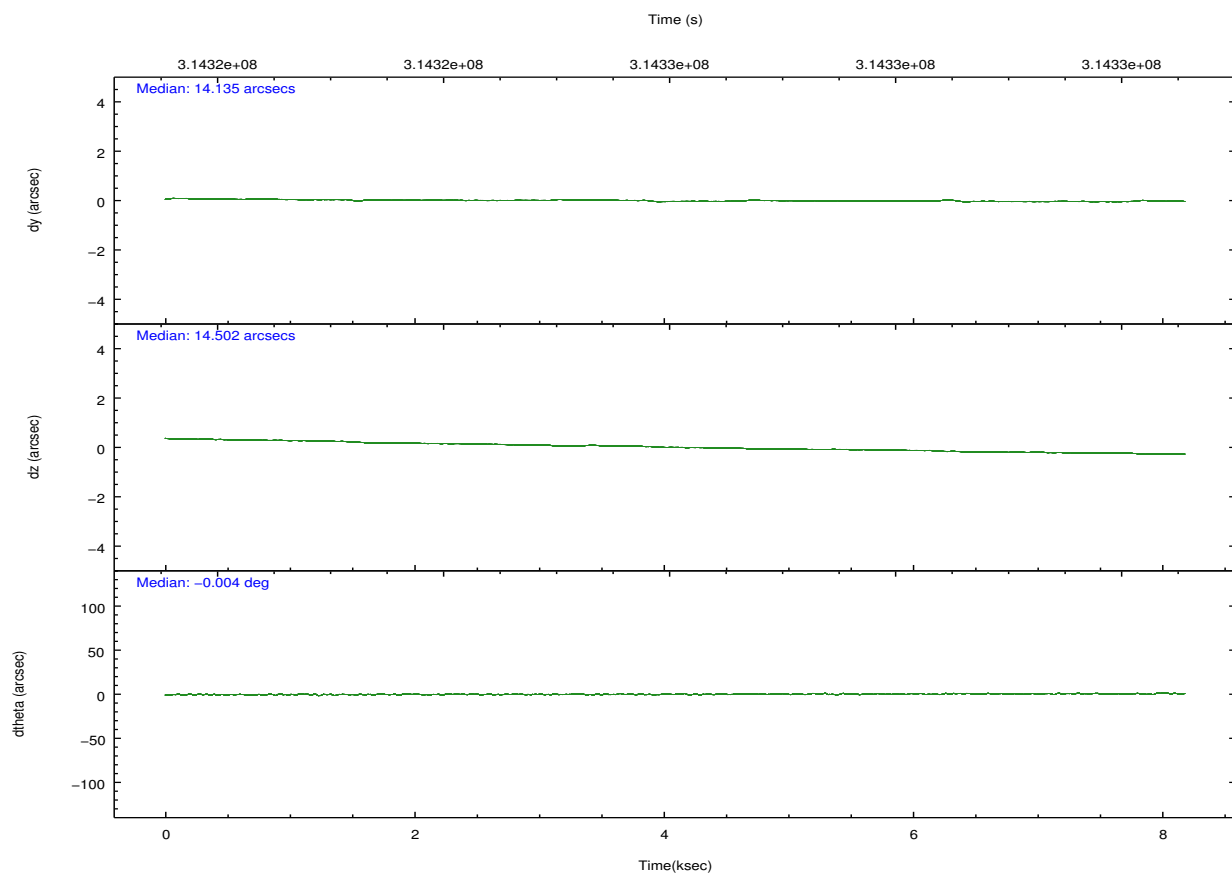
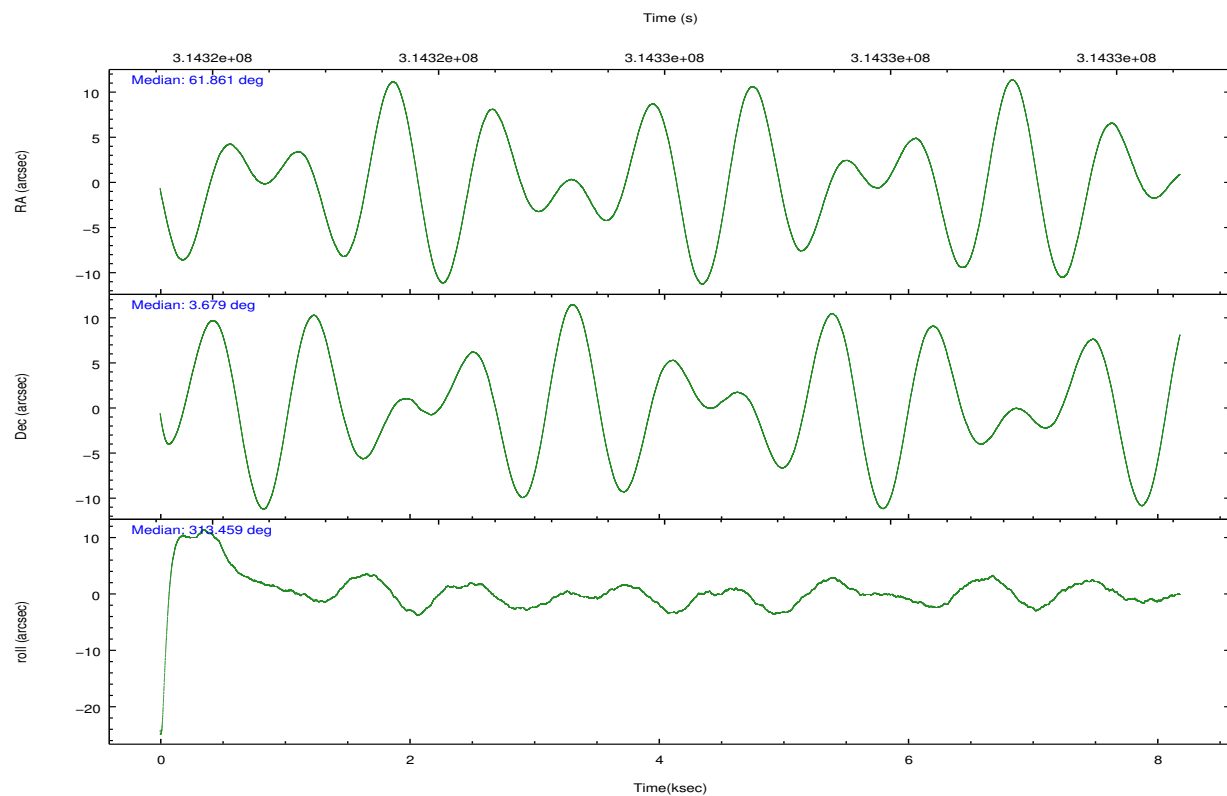


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	61.834582	61.86092128204599	CCD I2 on	Y	Y
[deg] Pointing Dec	3.686044	3.678608139276718	CCD I3 on	Y	Y
[deg] Pointing Roll	313.304324	313.459217242978	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	314322131.184000	314320925.13175	CCD S5 on	N	N
Observation start date	2007-12-17T23:41:06	2007-12-17T23:22:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	314330131.184000	314331482.11976	On-chip summing requested	N	N
Observation end date	2007-12-18T01:54:26	2007-12-18T02:18:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



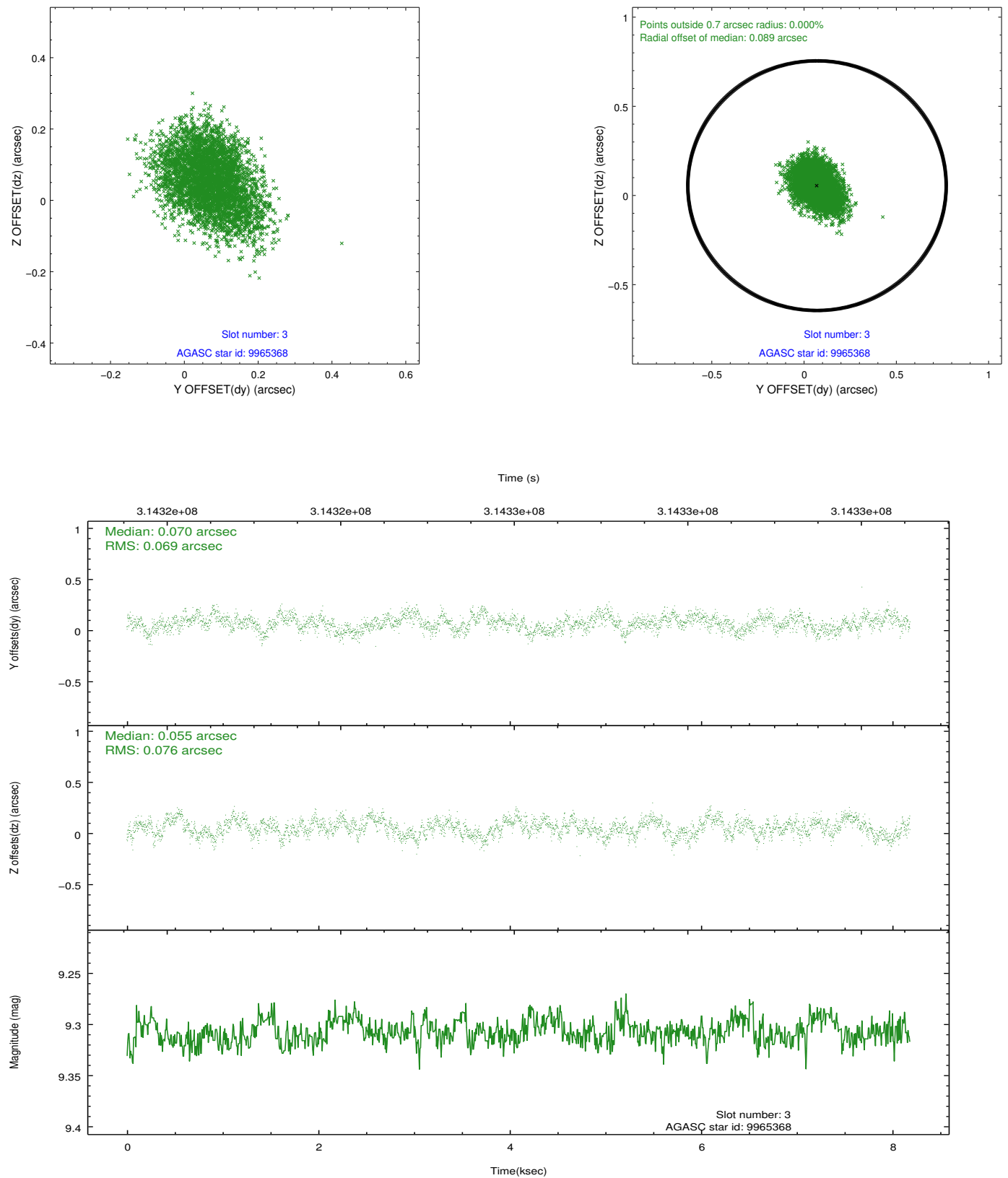


### Slot Statistics

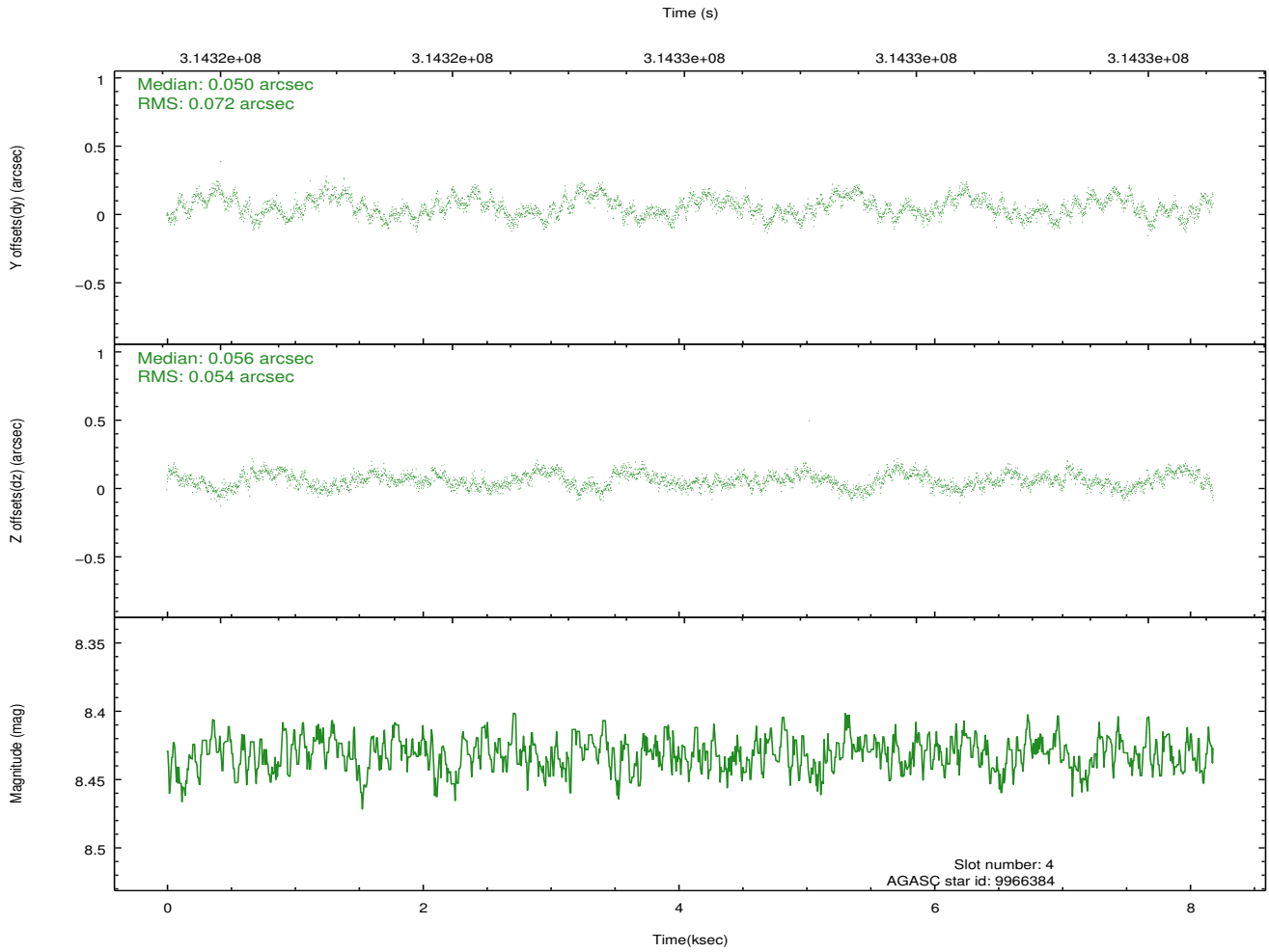
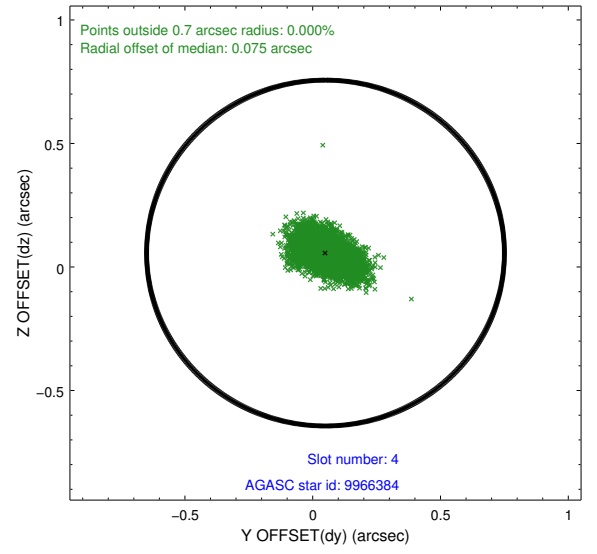
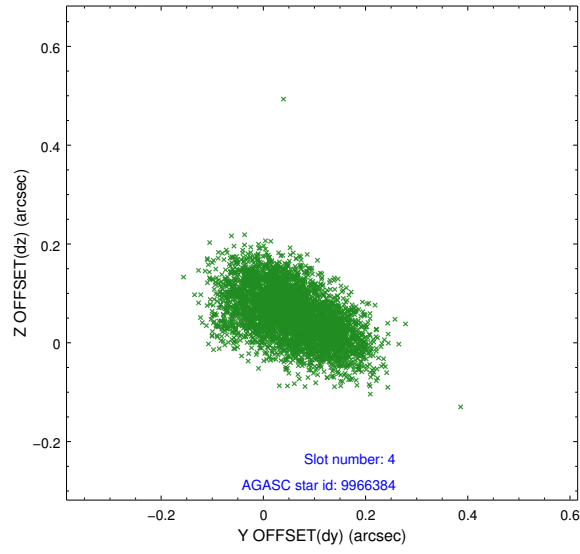
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1995	-0.072	-0.043	0.009	0.014	0.000000	0.000000	-767.14	-1735.88
1	FID	ACIS-S-4	7.19	1996	0.194	0.046	0.006	0.011	0.000000	0.000000	2146.08	172.00
2	FID	ACIS-S-5	7.22	1997	-0.154	0.006	0.008	0.013	0.000000	0.000000	-1819.20	166.38
3	GUIDE	9965368	9.31	3987	0.070	0.055	0.111	0.176	61.939591	4.319694	-1401.47	1839.38
4	GUIDE	9966384	8.43	3989	0.050	0.056	0.097	0.153	61.972850	4.297332	-1261.37	1871.45
5	GUIDE	9967352	9.65	3981	-0.134	-0.063	0.138	0.225	61.875097	4.569532	-2215.37	2288.13
6	GUIDE	9967640	9.35	3987	0.038	-0.001	0.108	0.171	61.419358	3.696870	-1052.23	-1057.63
7	GUIDE	9966168	6.71	3992	-0.034	-0.050	0.072	0.136	62.429199	3.322701	2416.91	657.99

## 2.4 Star Slots

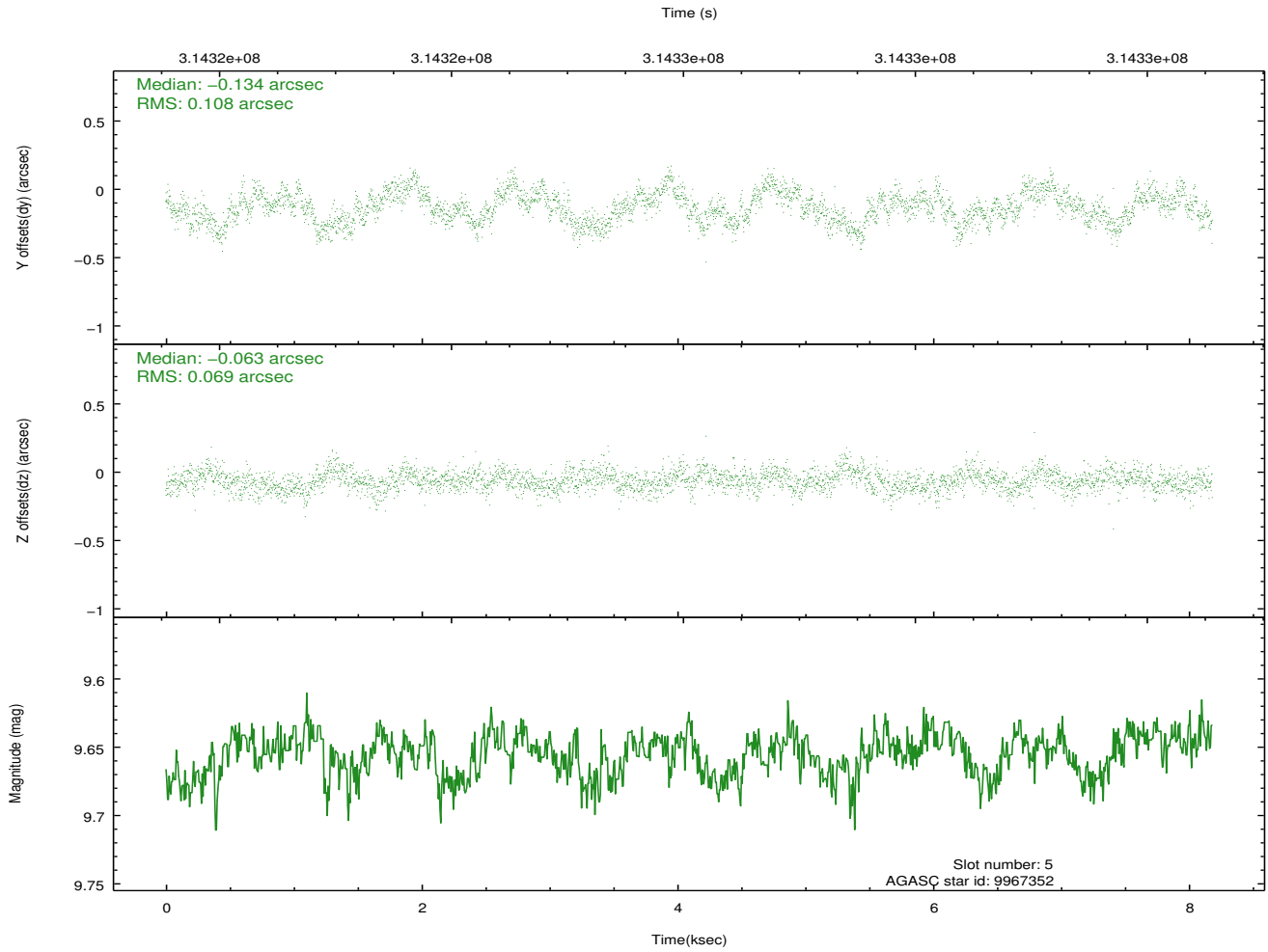
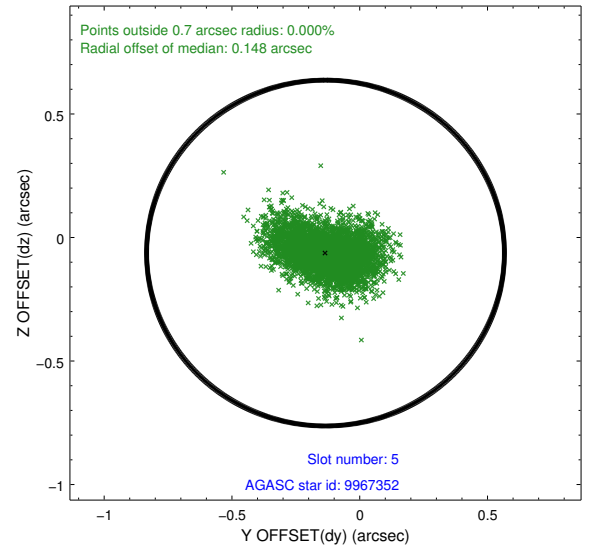
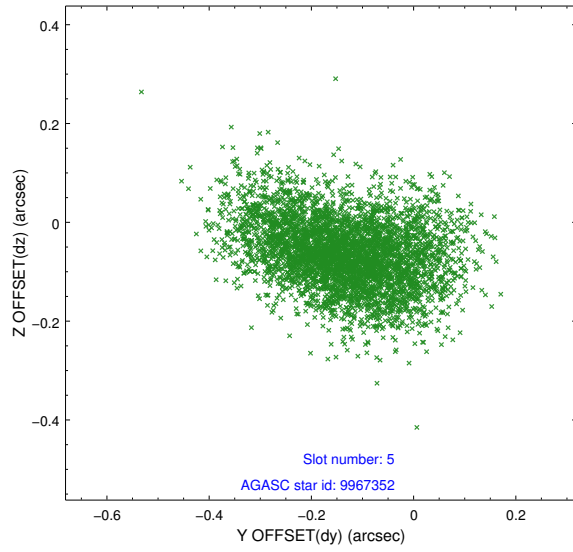
### 2.4.1 Slot 3



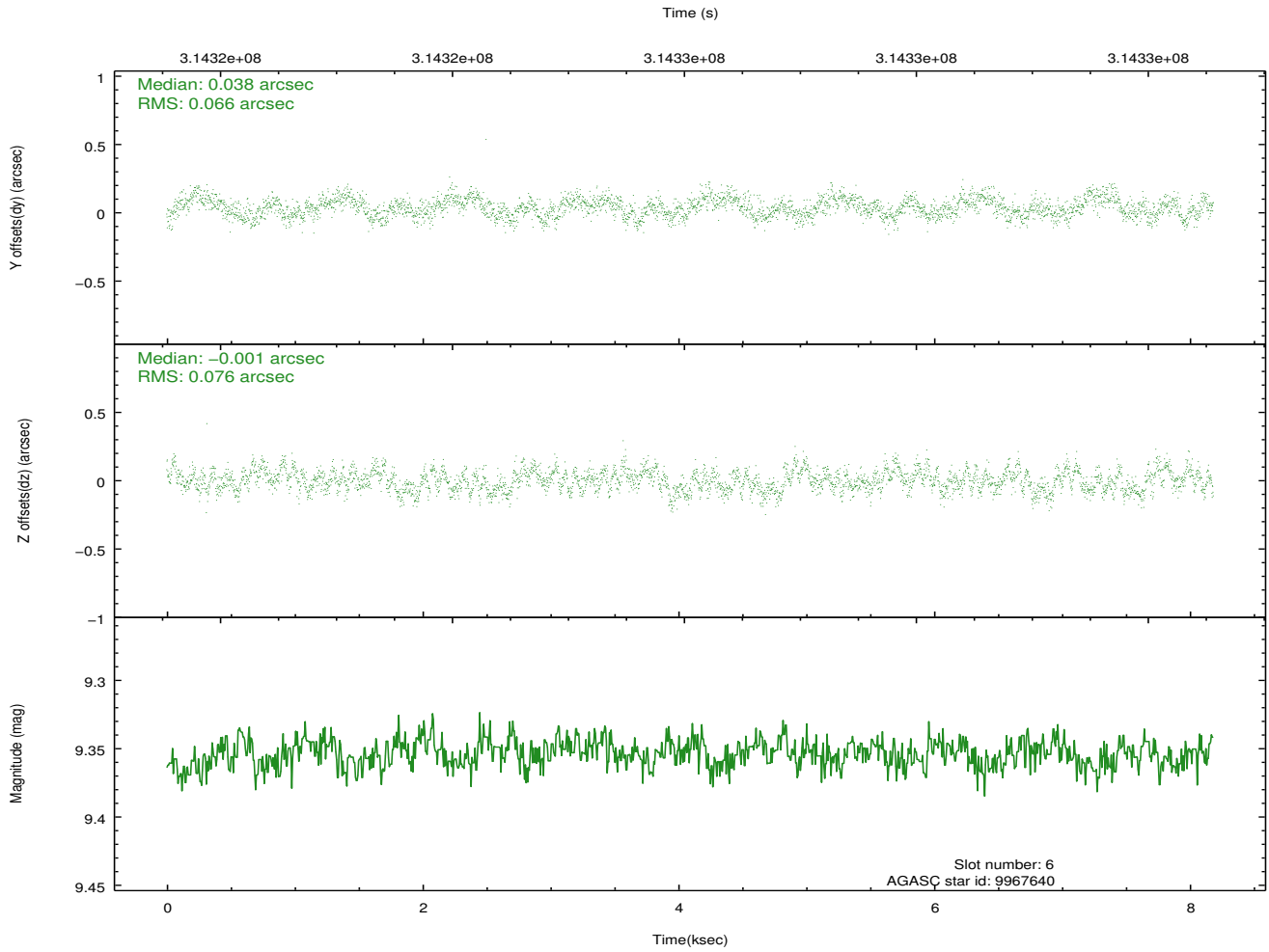
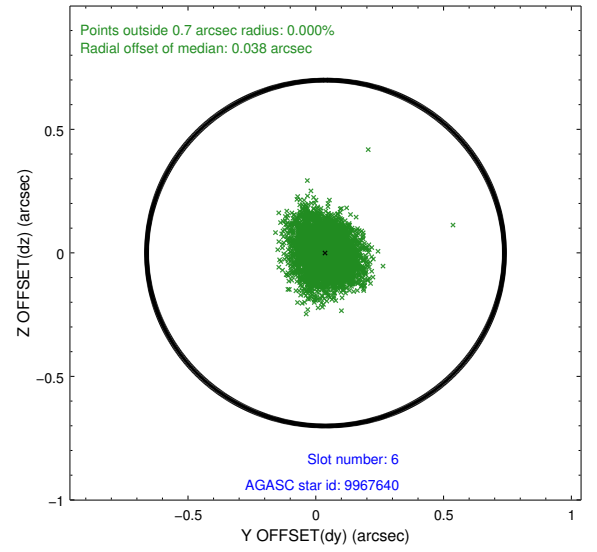
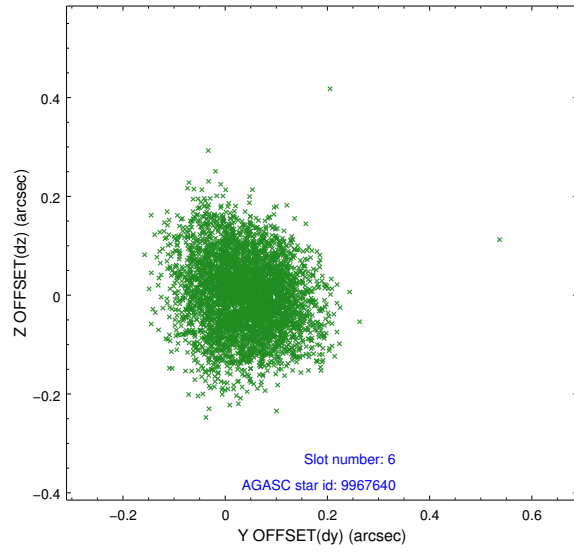
## 2.4.2 Slot 4



### 2.4.3 Slot 5

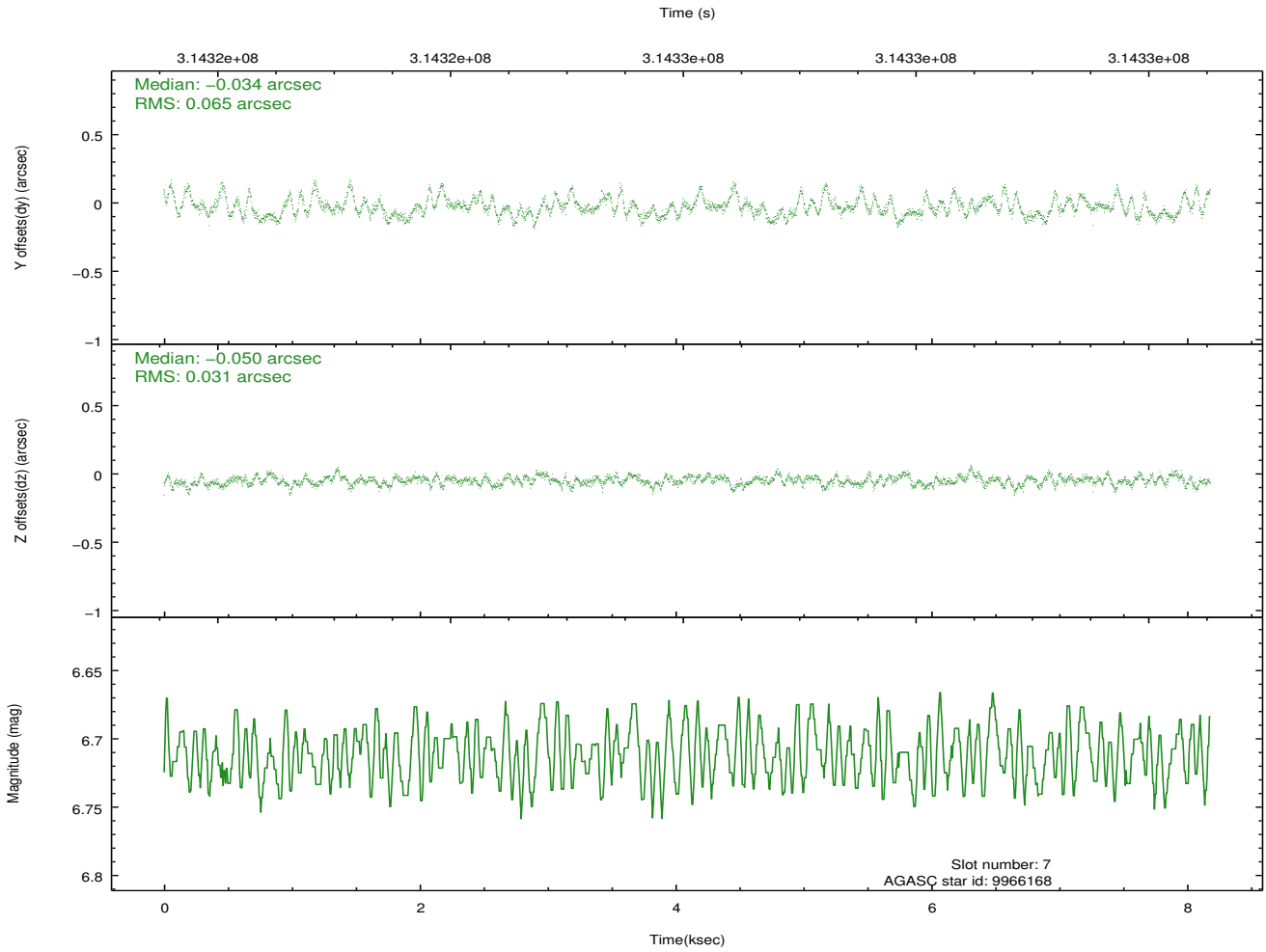
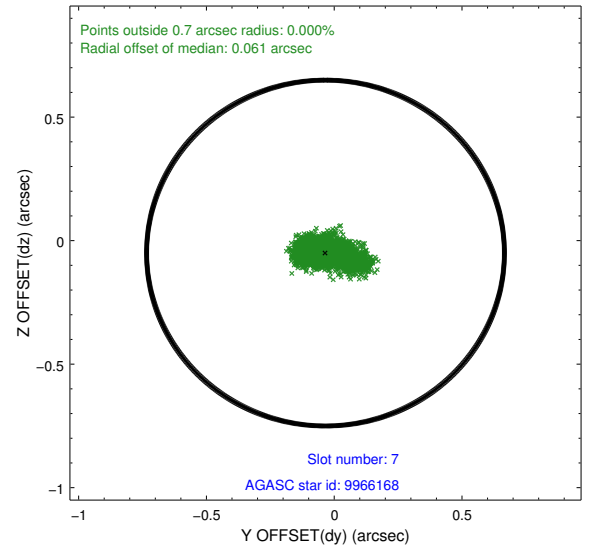
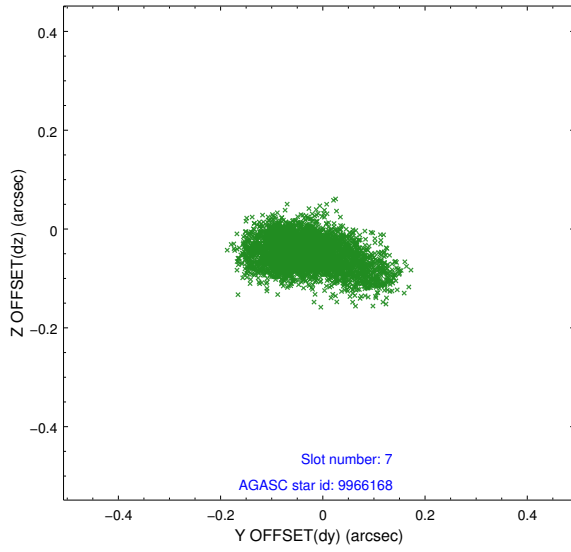


## 2.4.4 Slot 6



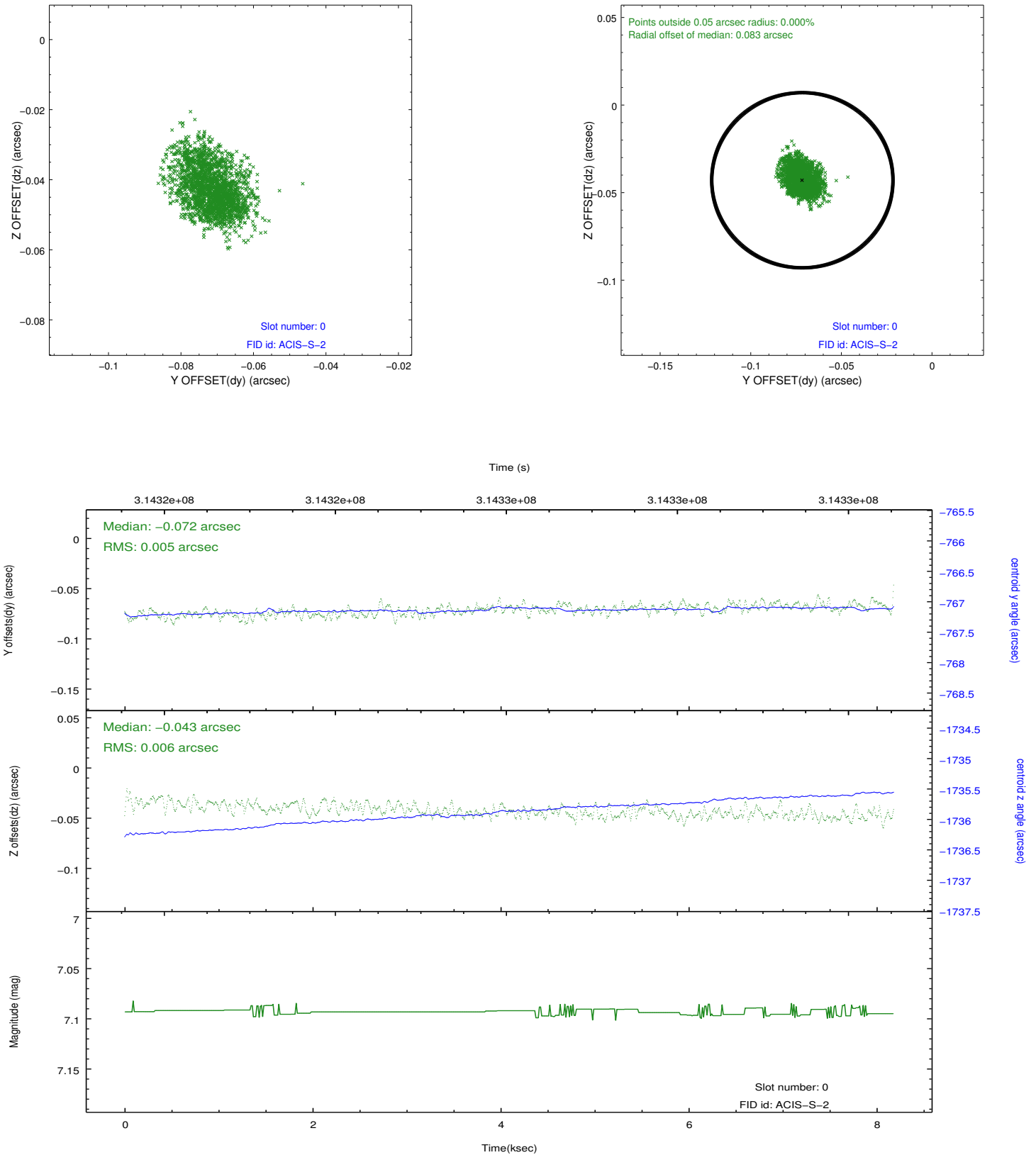


## 2.4.5 Slot 7

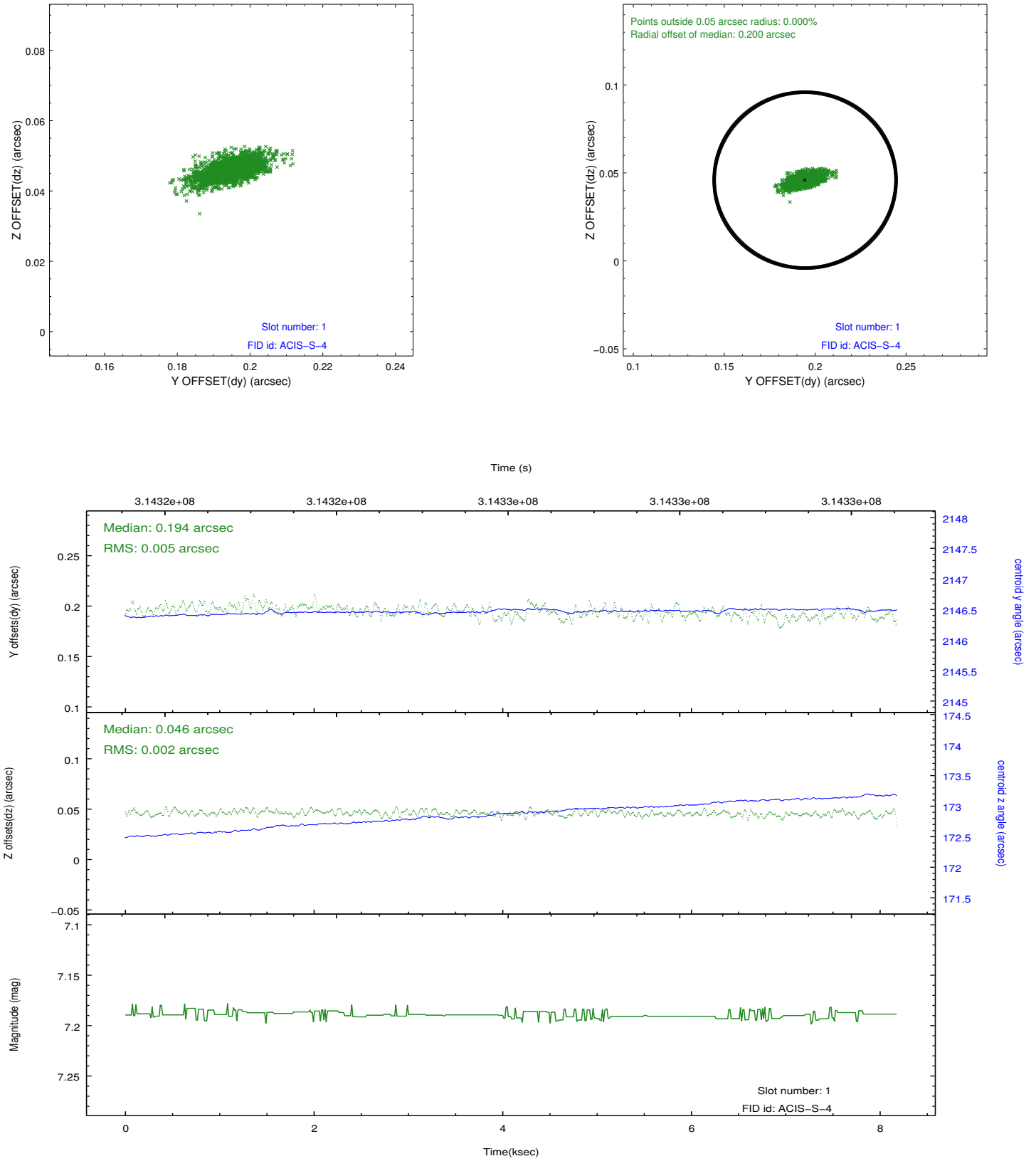


## 2.5 FID Slots

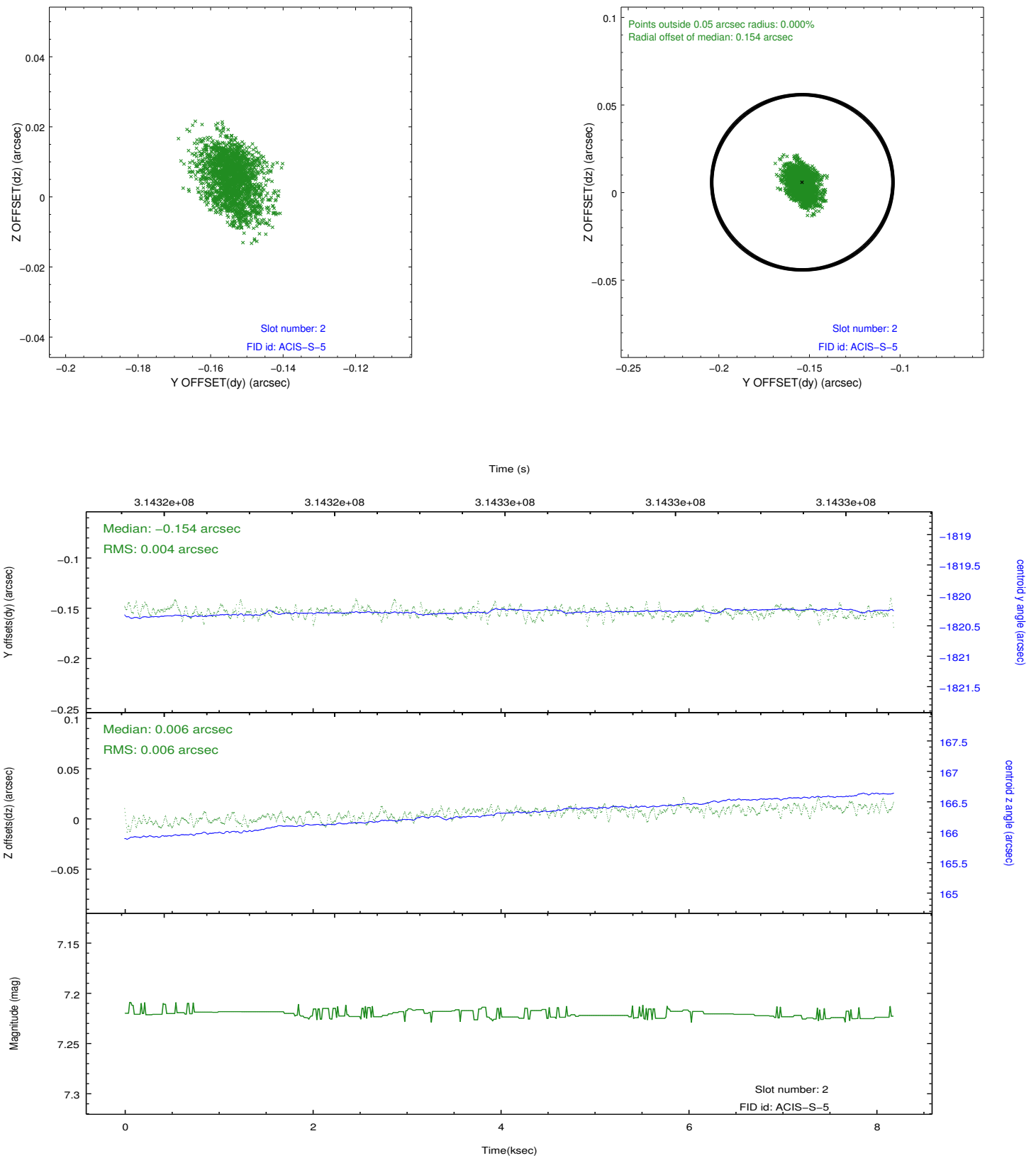
### 2.5.1 Slot 0



## 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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.17780006

### A.2 Comments