

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9153 - L2 Version 2  
Chandra X-Ray Center

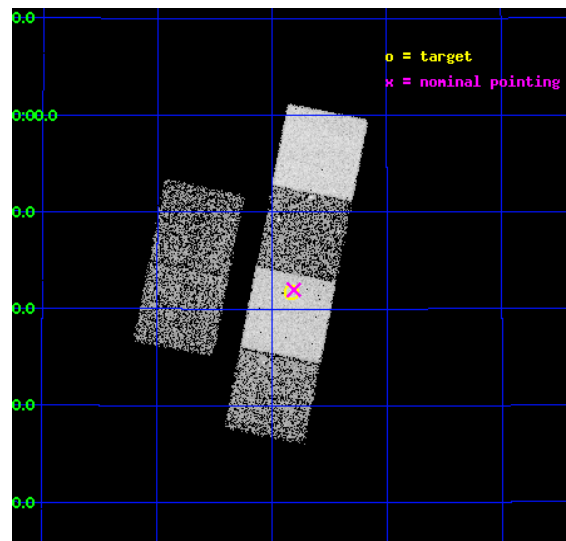
L2 Processing Date : May 6 2012

## 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

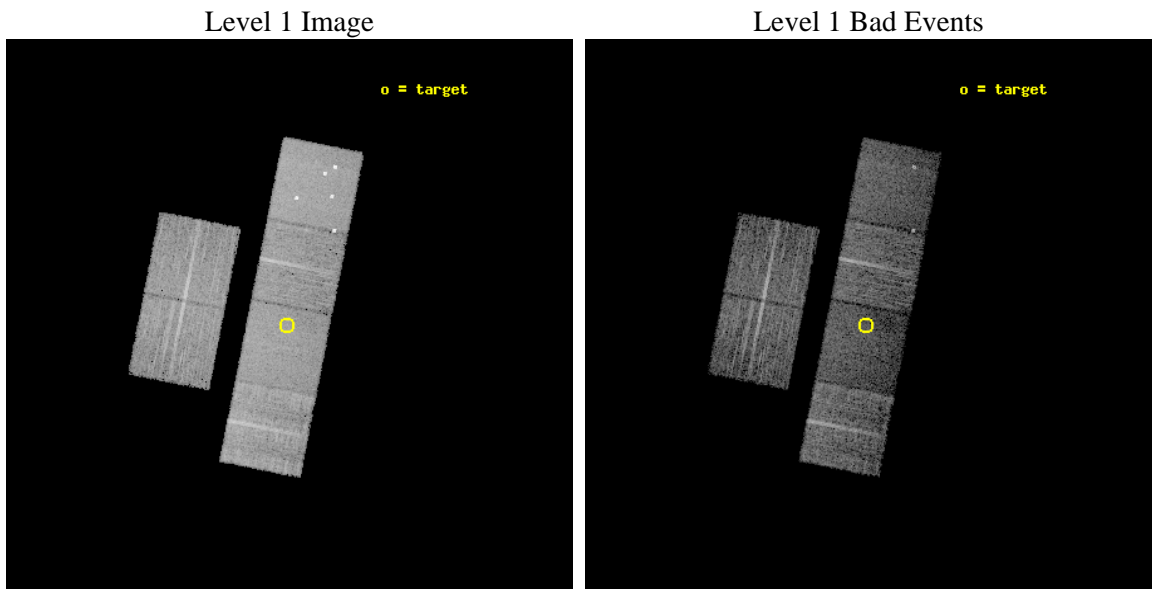
seq_num	701595	Sequence number
obs_id	9153	Observation id
title	Chandra ACIS Snapshots of the Brightest Radio-Loud Broad Absorption Line Quasars in the SDSS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J083749.59+364145.4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.456667	Observer's specified target RA [deg]
dec_targ	36.696	Observer's specified target Dec [deg]
ra_nom	129.45252794733	Nominal RA [deg]
dec_nom	36.699606606187	Nominal Dec [deg]
roll_nom	101.21012551839	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6179.1999770403	Sum of GTIs [s]
livetime	6100.9552262635	Livetime [s]
ontime2	6175.9589767456	Sum of GTIs [s]
ontime3	6179.1999770403	Sum of GTIs [s]
ontime5	6179.1999770403	Sum of GTIs [s]
ontime6	6179.1999770403	Sum of GTIs [s]
ontime7	6179.1999770403	Sum of GTIs [s]
ontime8	6175.9589667916	Sum of GTIs [s]
l2events	73375	Number of level 2 events



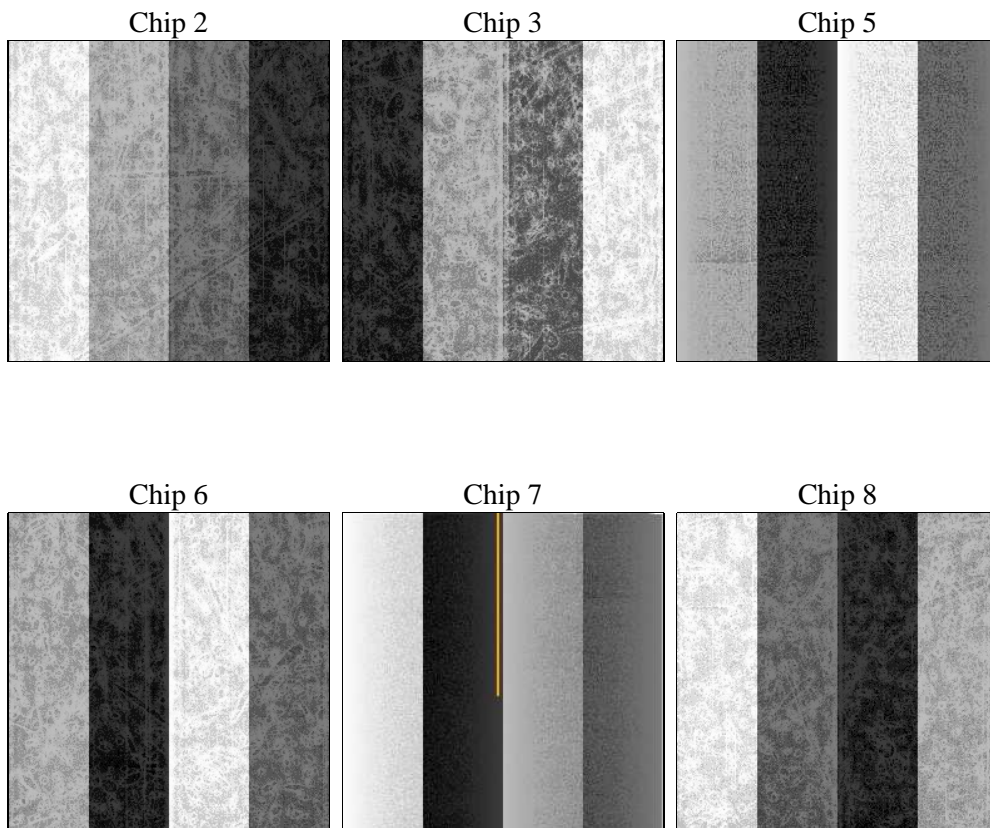
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	6179.1999770403	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	6175.9589767456	Sum of GTIs [s]
date	2012-05-06T14:21:32	Date and time of file creation	ontime3	6179.1999770403	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	6179.1999770403	Sum of GTIs [s]
			ontime6	6179.1999770403	Sum of GTIs [s]
			ontime7	6179.1999770403	Sum of GTIs [s]
			ontime8	6175.9589667916	Sum of GTIs [s]
			l1events	400896	Number of level 1 events

### 2.1.4 Events

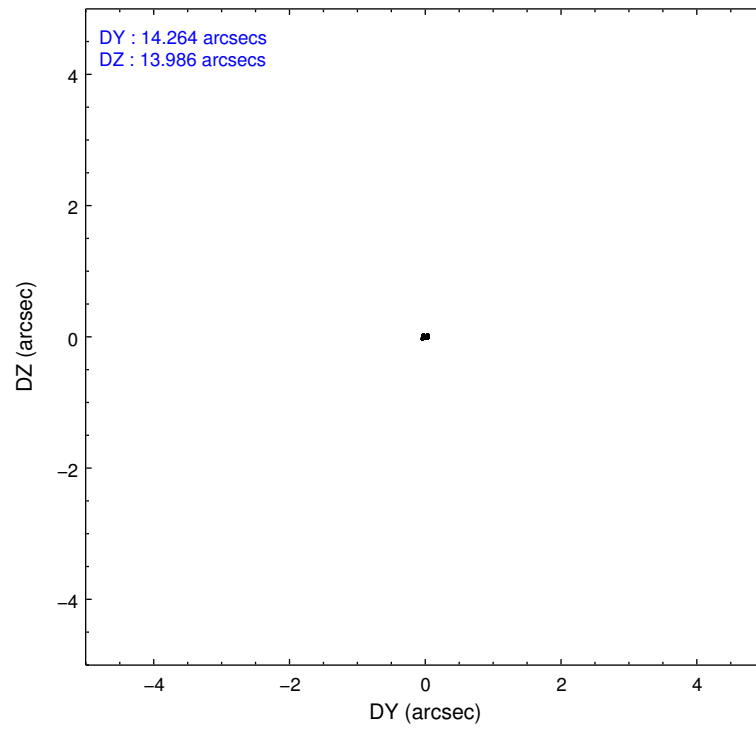
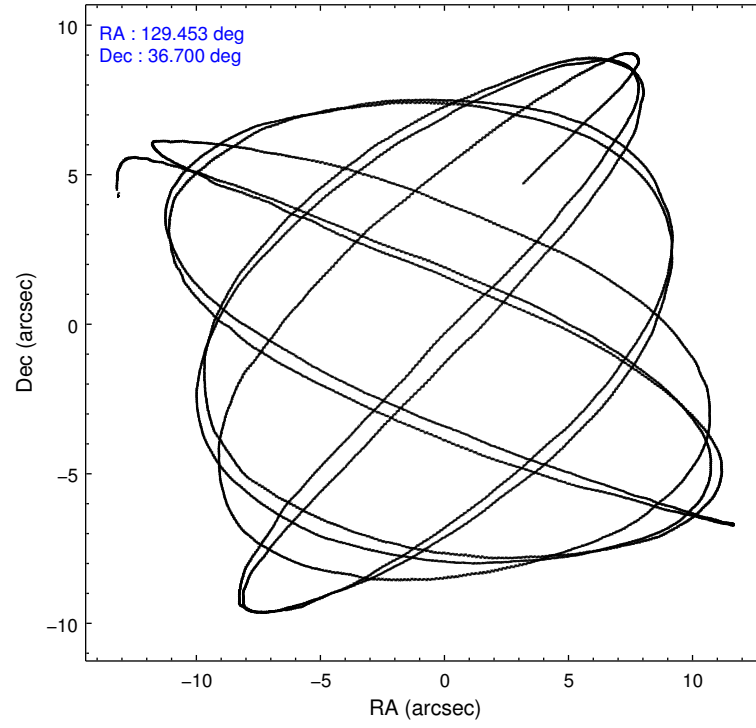
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	60052	57740	86878	59171	63962	73093	grade 0 events	1942	1907	8915	2234	2635	5050
rejected events	55340	53095	46691	53861	39114	57742		3%	3%	10%	3%	4%	6%
rejected %	92%	91%	53%	91%	61%	78%	grade 1 events	34	38	364	25	67	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1260	1099	13194	1316	5744	4147
								2%	1%	15%	2%	8%	5%
							grade 3 events	607	662	1591	652	2586	1948
								1%	1%	1%	1%	4%	2%
							grade 4 events	618	654	1549	628	2618	1827
								1%	1%	1%	1%	4%	2%
							grade 5 events	1873	2200	6326	2303	6632	3191
								3%	3%	7%	3%	10%	4%
							grade 6 events	1034	1062	20992	1272	15318	4890
								1%	1%	24%	2%	23%	6%
							grade 7 events	52684	50118	33947	50741	28362	51983
								87%	86%	39%	85%	44%	71%

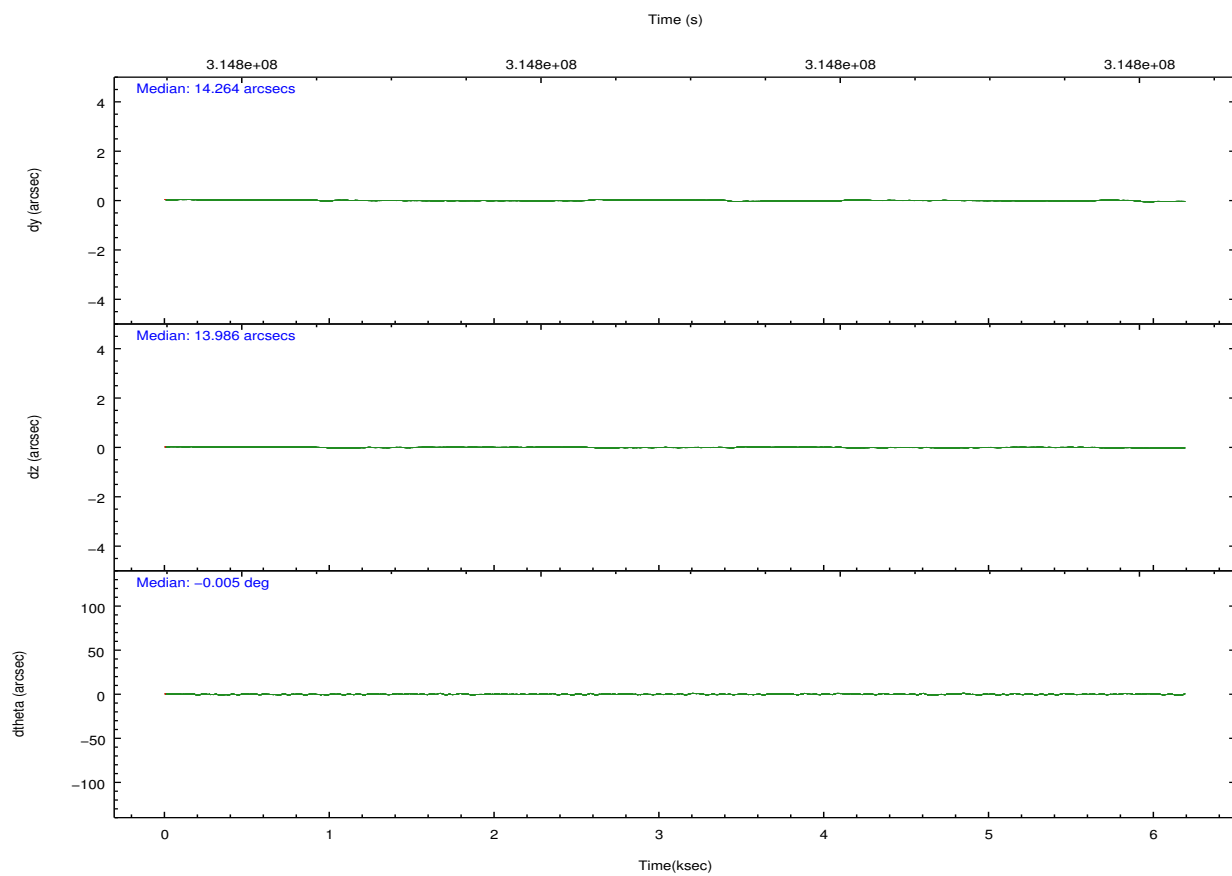
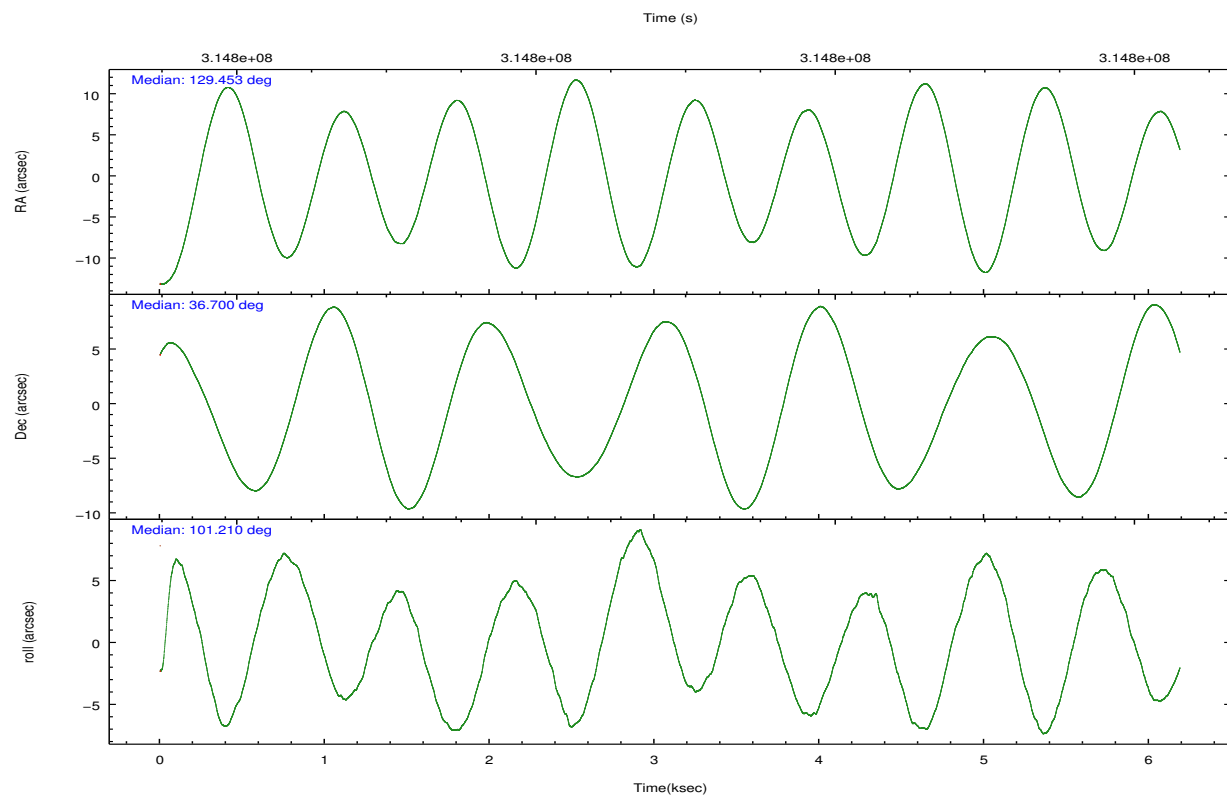


## 2.2 Compared Parameters

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	129.475365	129.452527947327	CCD I2 on	O1	Y
[deg] Pointing Dec	36.679229	36.69960660618682	CCD I3 on	O2	Y
[deg] Pointing Roll	101.039856	101.2101255183923	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	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	Y	Y
[s] Observation start time (MET)	314796000.184000	314794427.49215	CCD S5 on	N	N
Observation start date	2007-12-23T11:18:55	2007-12-23T10:53:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	314802000.184000	314802748.44256	On-chip summing requested	N	N
Observation end date	2007-12-23T12:58:55	2007-12-23T13:12:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



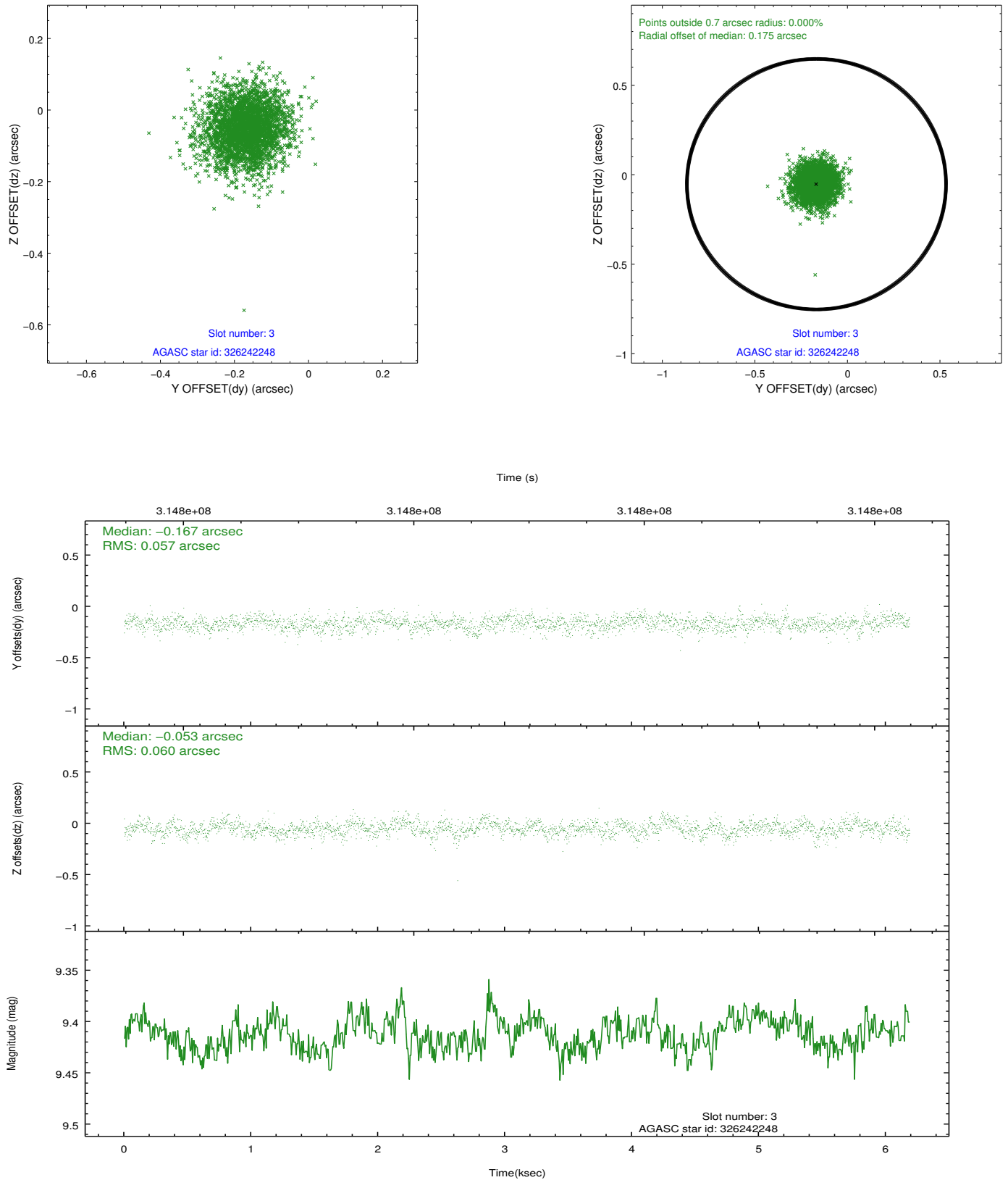


### Slot Statistics

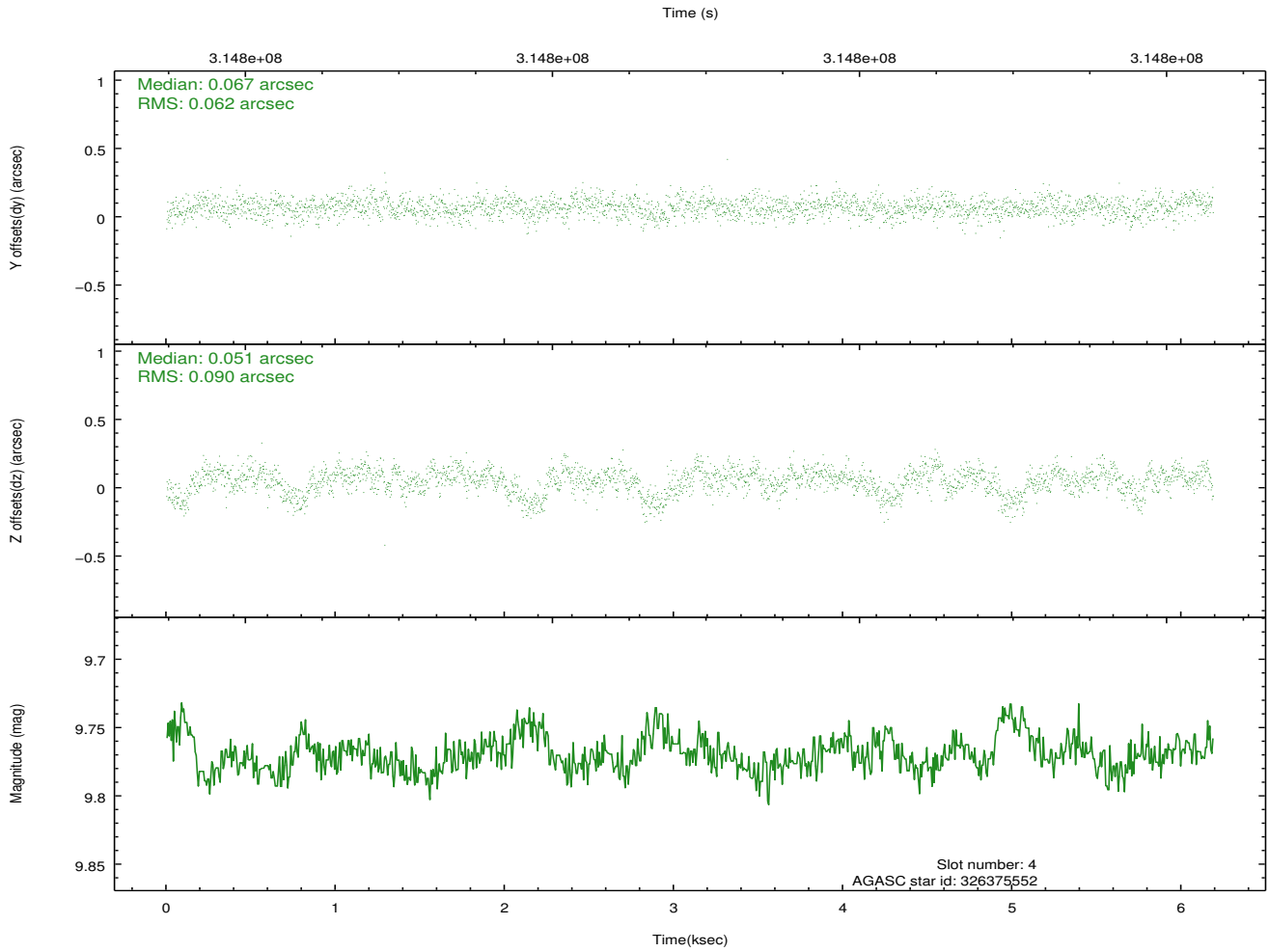
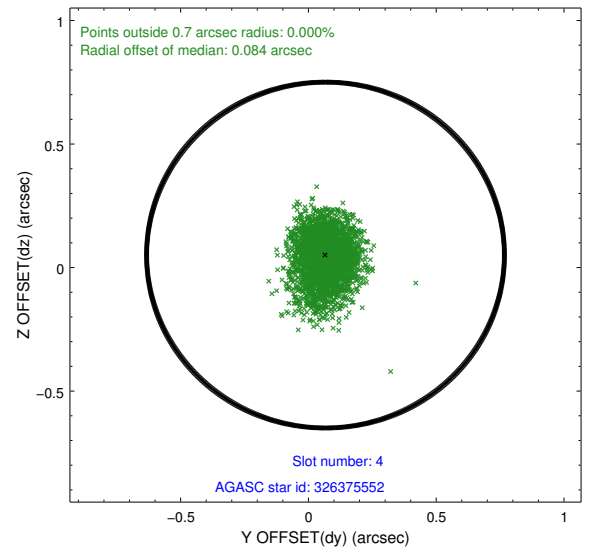
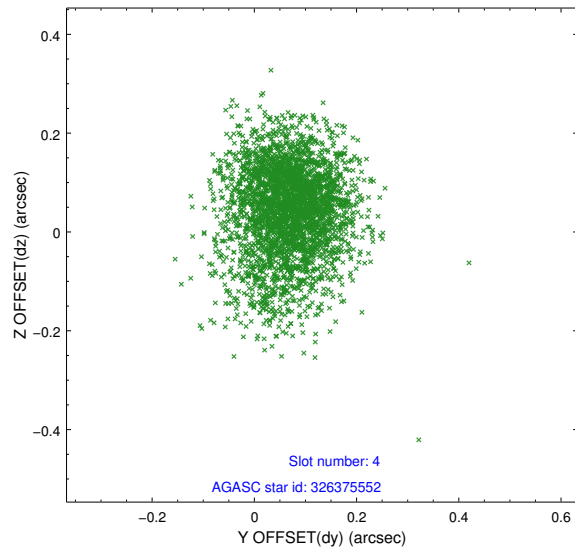
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1510	0.079	-0.030	0.006	0.010	0.000000	0.000000	928.90	-1730.94
1	FID	ACIS-S-5	7.23	1510	-0.162	0.050	0.006	0.011	0.000000	0.000000	-1819.81	165.71
2	FID	ACIS-S-6	7.33	1510	0.062	-0.007	0.007	0.011	0.000000	0.000000	393.41	810.69
3	GUIDE	326242248	9.41	3016	-0.167	-0.053	0.088	0.145	128.699635	37.196292	2261.62	1825.20
4	GUIDE	326375552	9.77	3015	0.067	0.051	0.113	0.193	129.714524	36.329110	-1368.37	-438.96
5	GUIDE	326378000	7.92	3019	0.027	0.101	0.085	0.130	129.573069	37.020339	1150.90	-510.59
6	GUIDE	326378568	8.26	3019	-0.079	0.050	0.067	0.105	130.277846	36.185317	-2182.00	-1950.11
7	GUIDE	326385224	9.81	3011	0.157	-0.137	0.106	0.176	129.304151	36.490268	-573.01	615.76

## 2.4 Star Slots

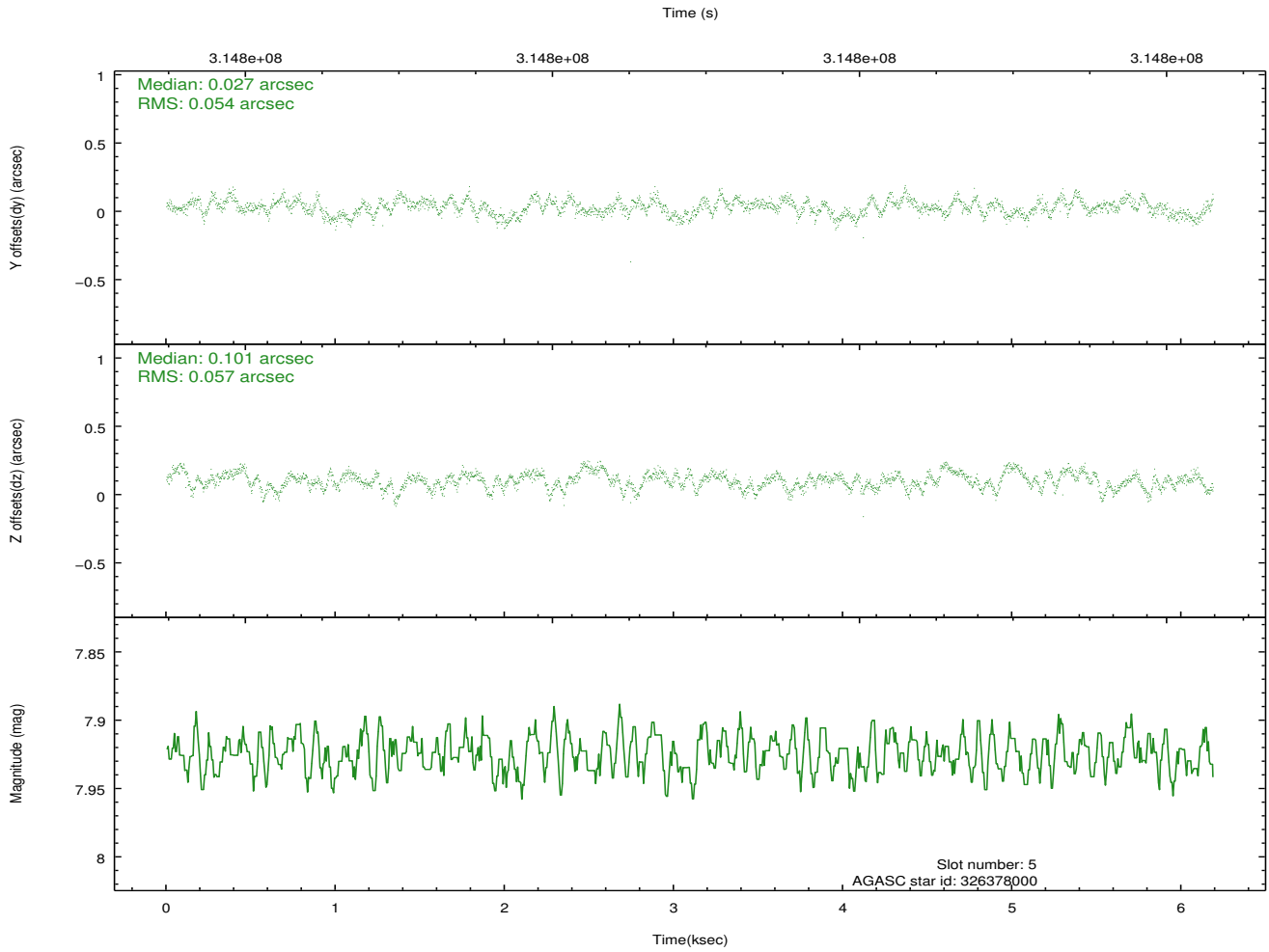
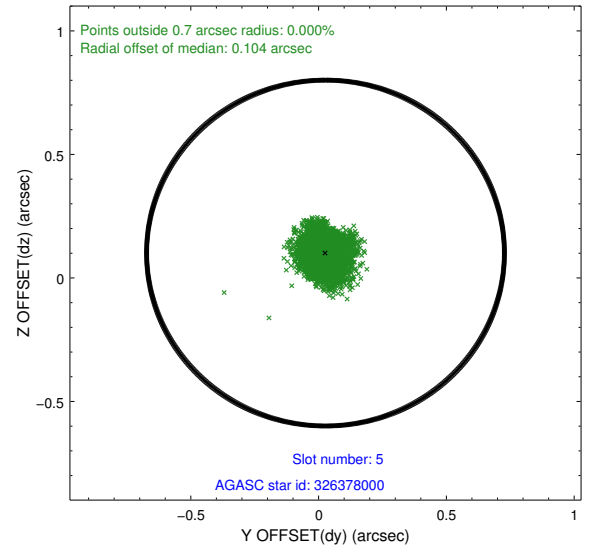
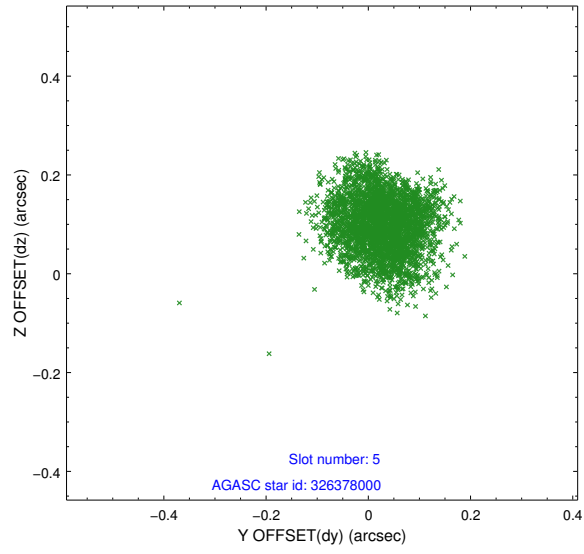
### 2.4.1 Slot 3



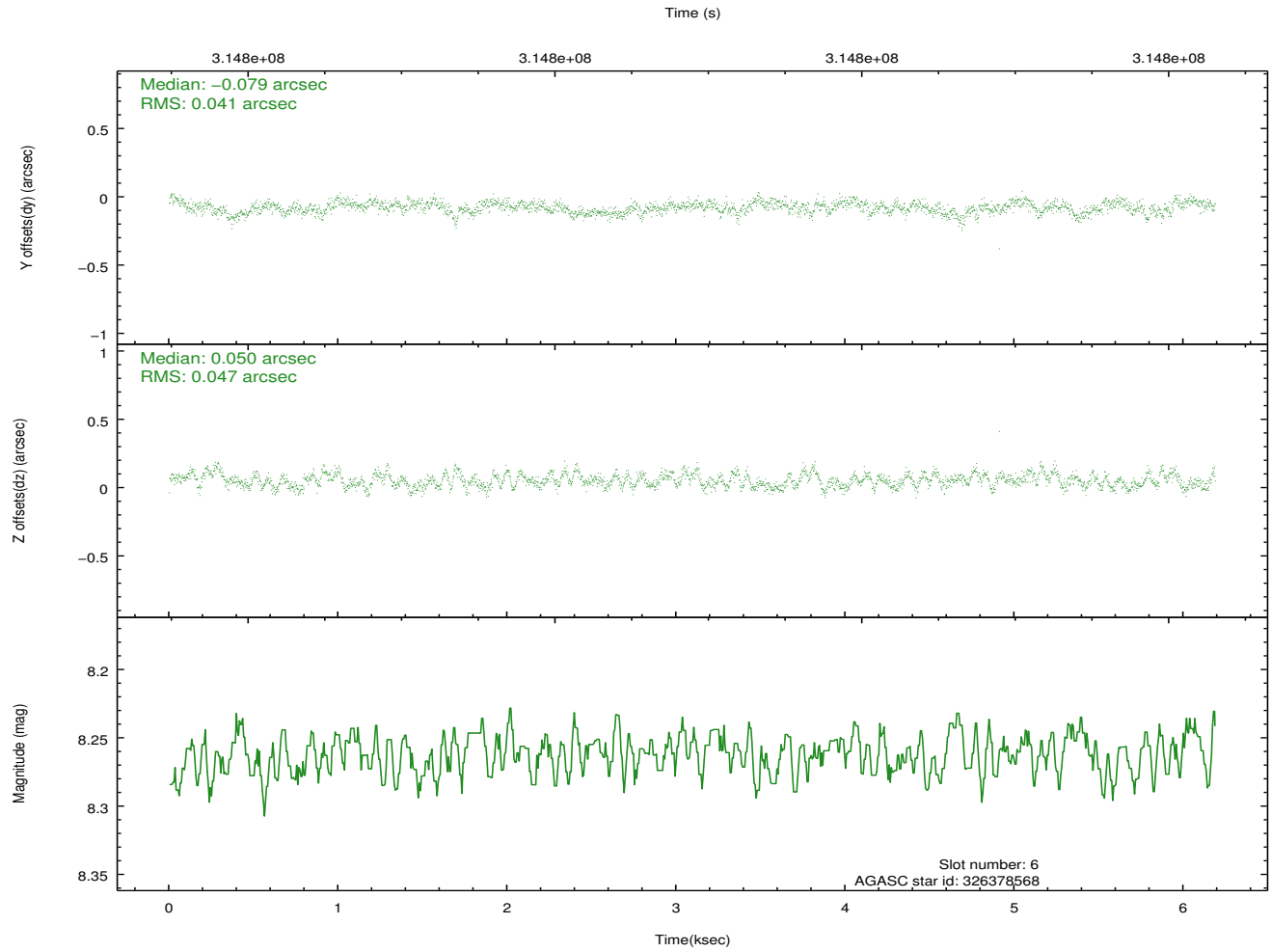
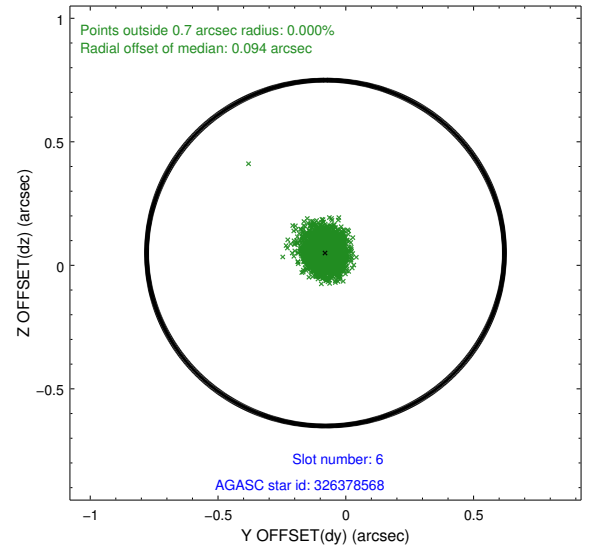
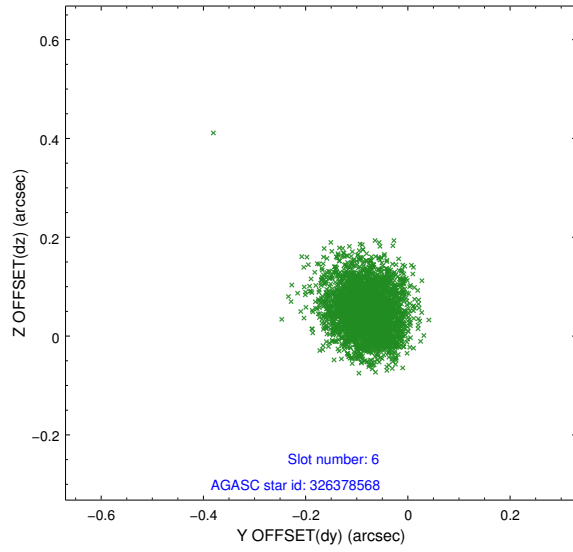
## 2.4.2 Slot 4



### 2.4.3 Slot 5

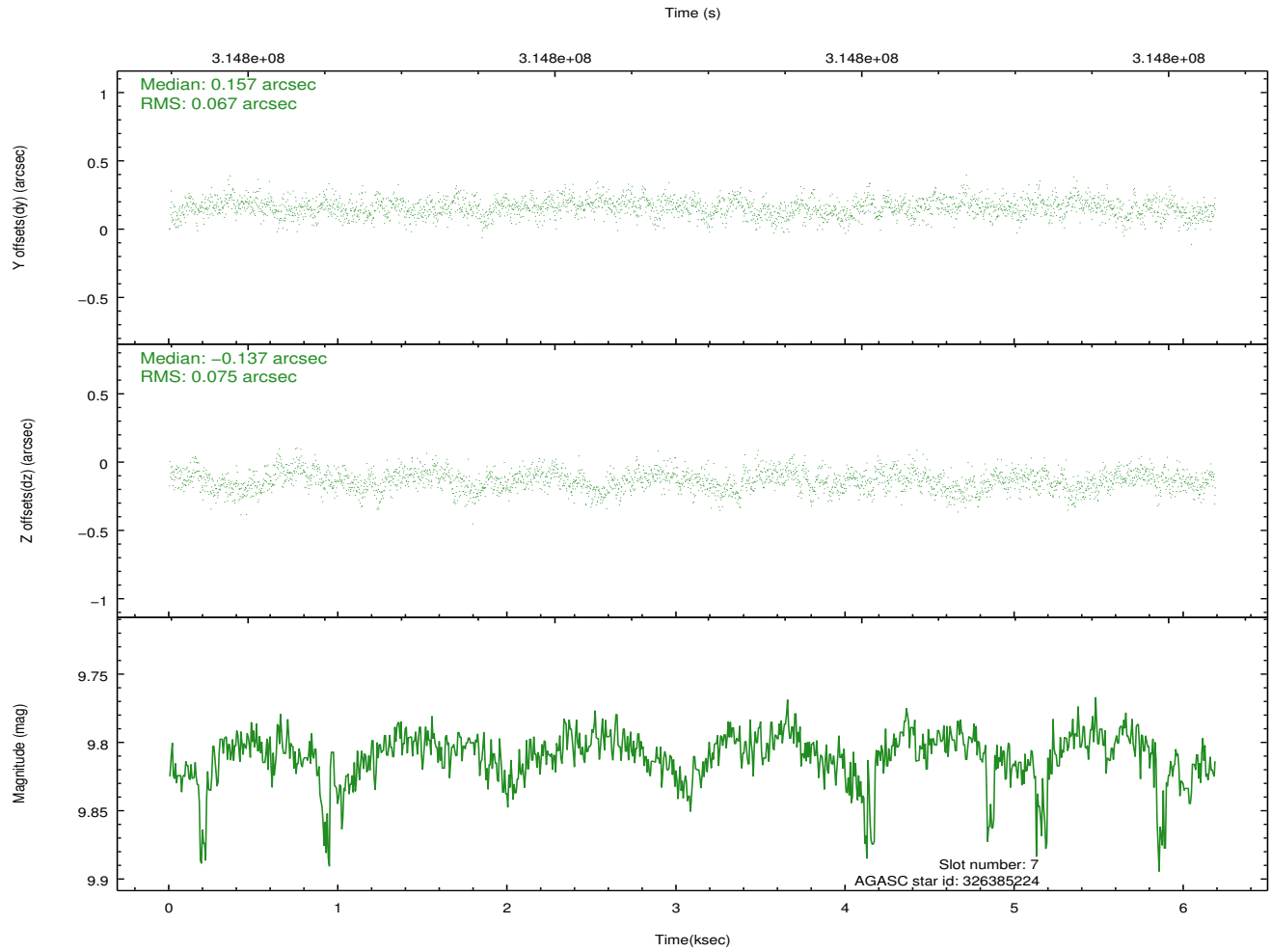
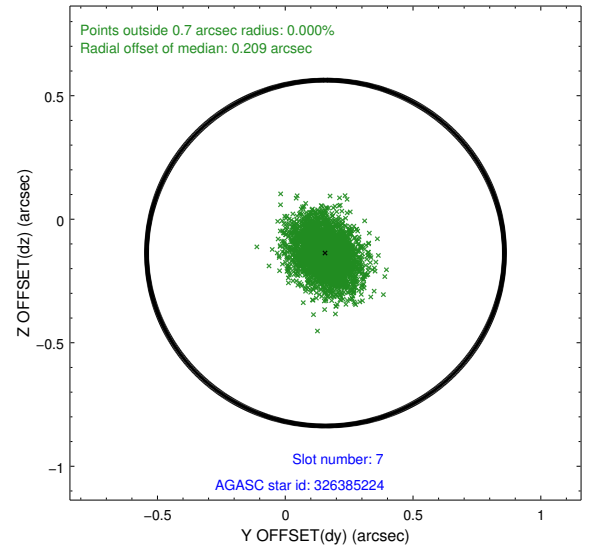
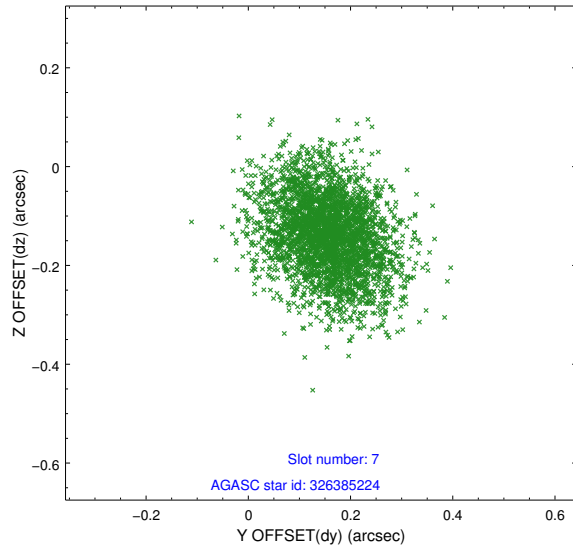


## 2.4.4 Slot 6



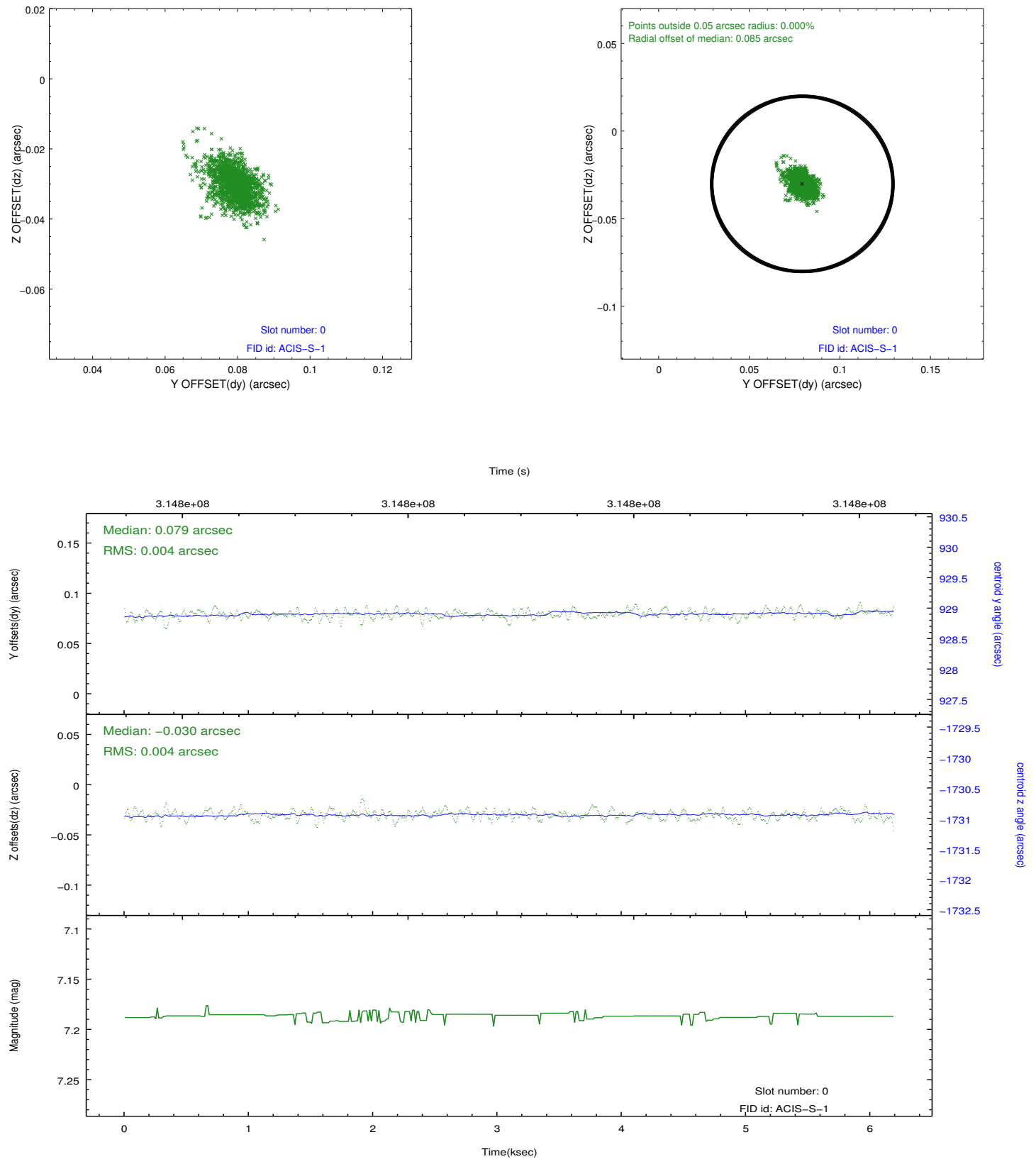


## 2.4.5 Slot 7

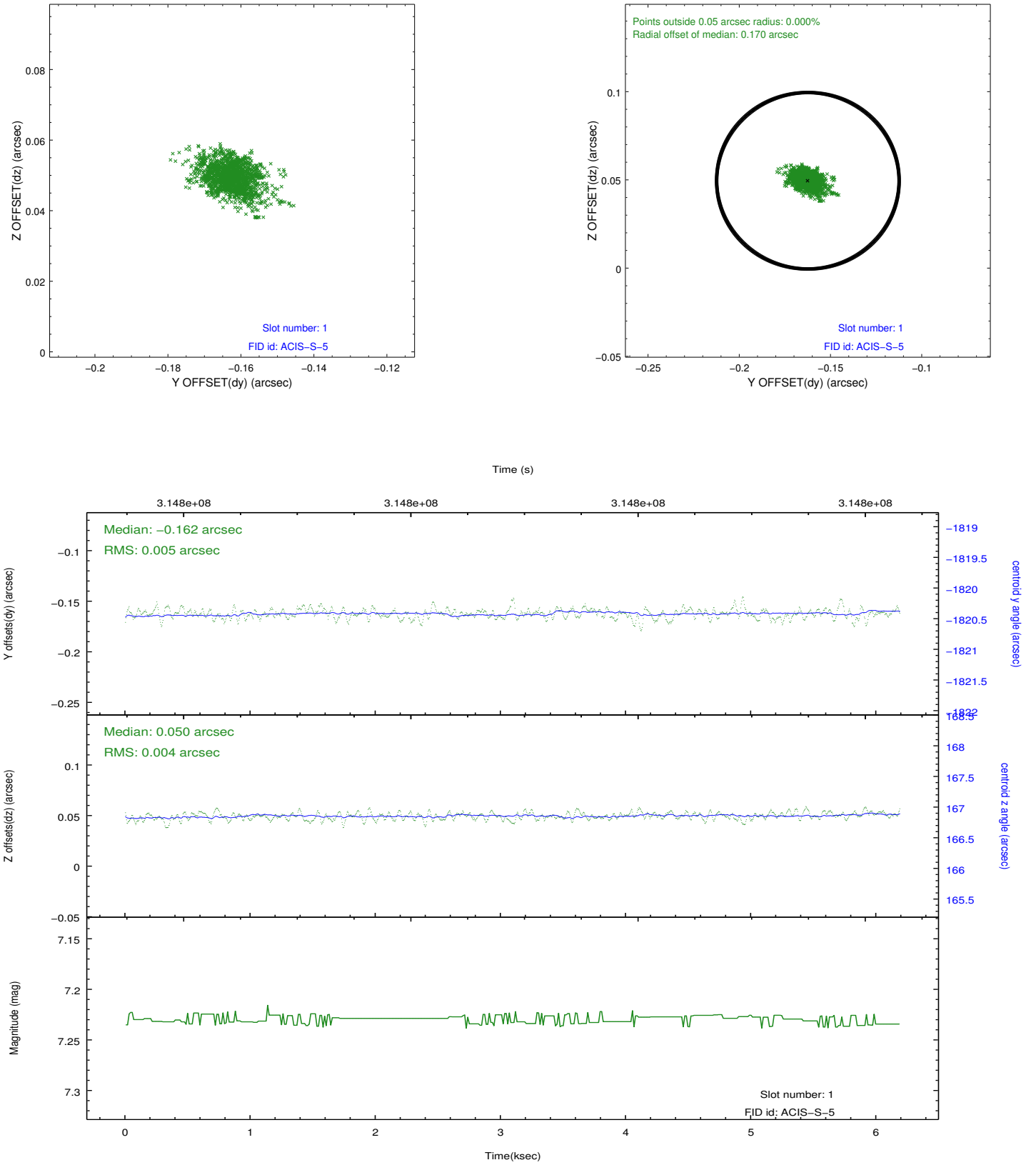


## 2.5 FID Slots

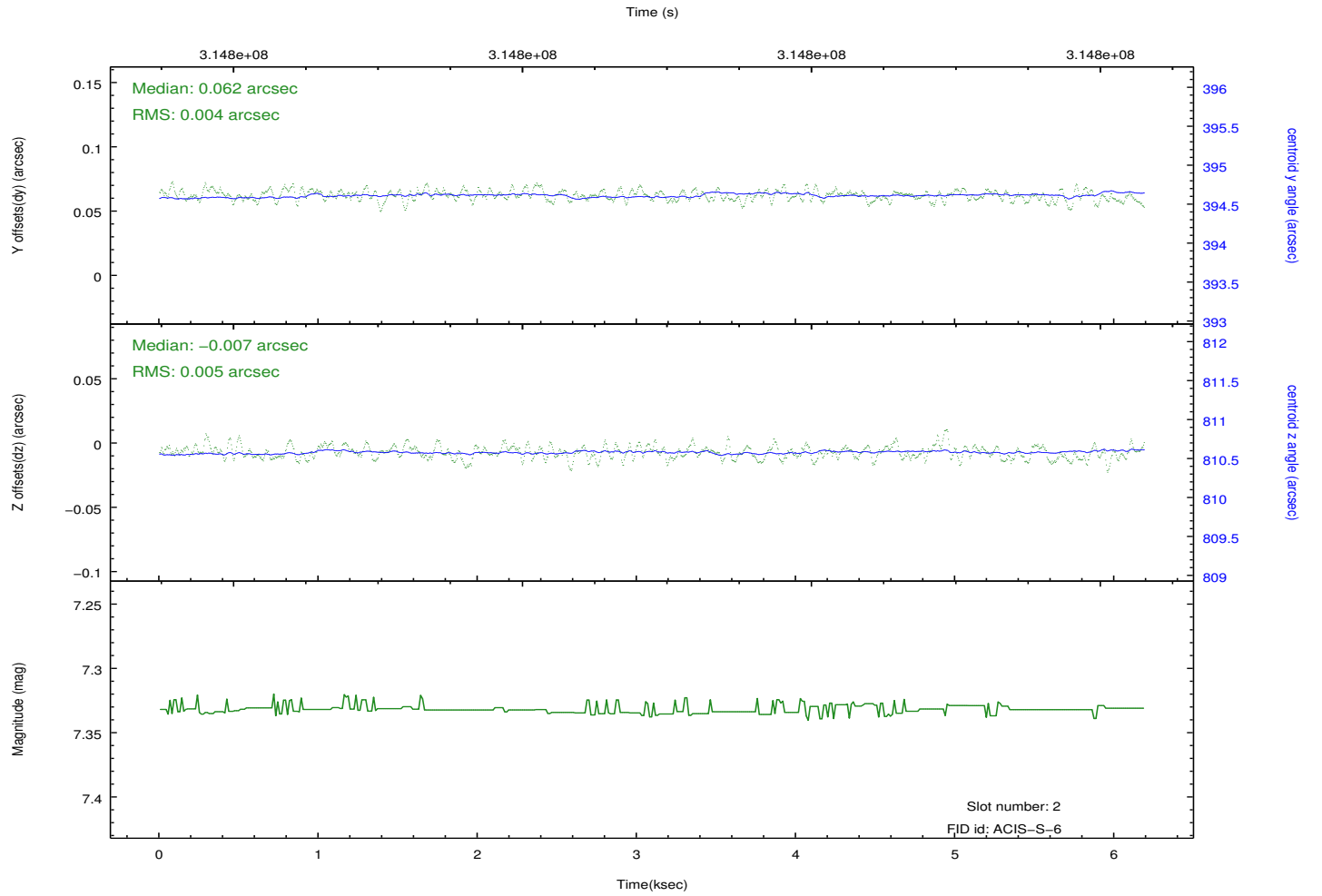
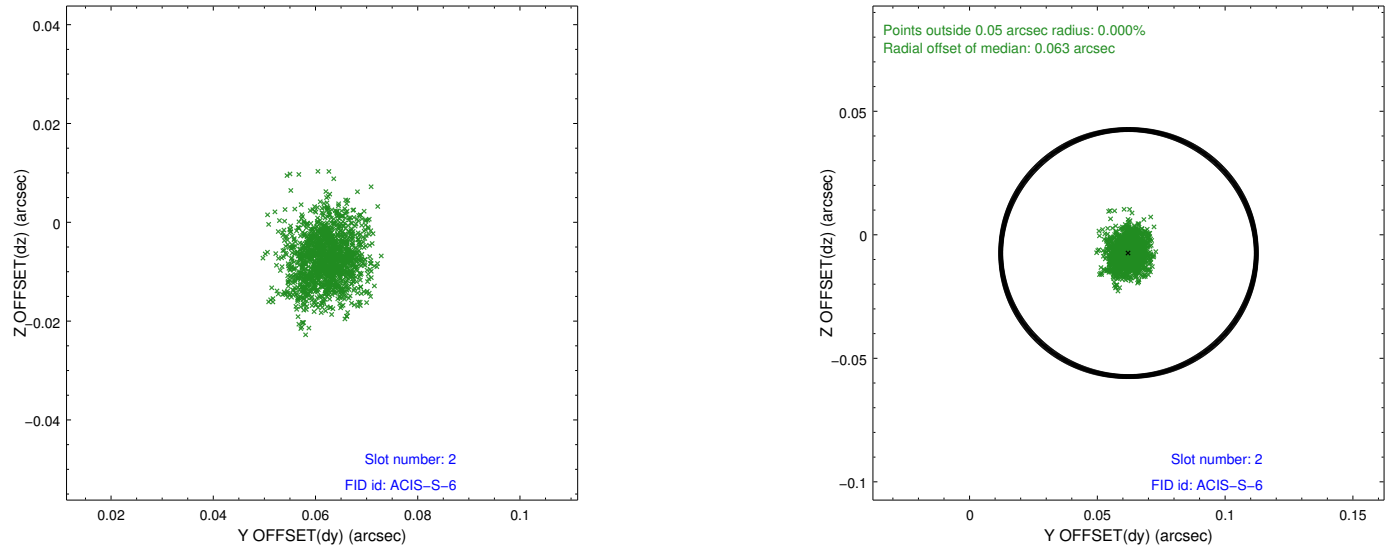
### 2.5.1 Slot 0



## 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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.17919997

### A.2 Comments