

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9244 - L2 Version 2  
Chandra X-Ray Center

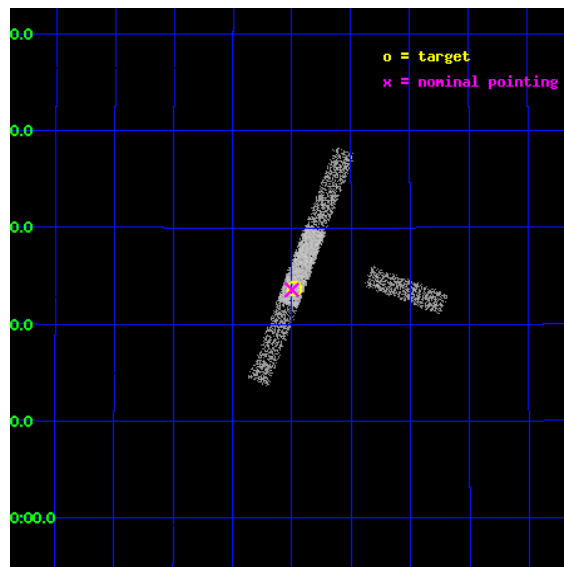
L2 Processing Date : May 9 2012

## 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

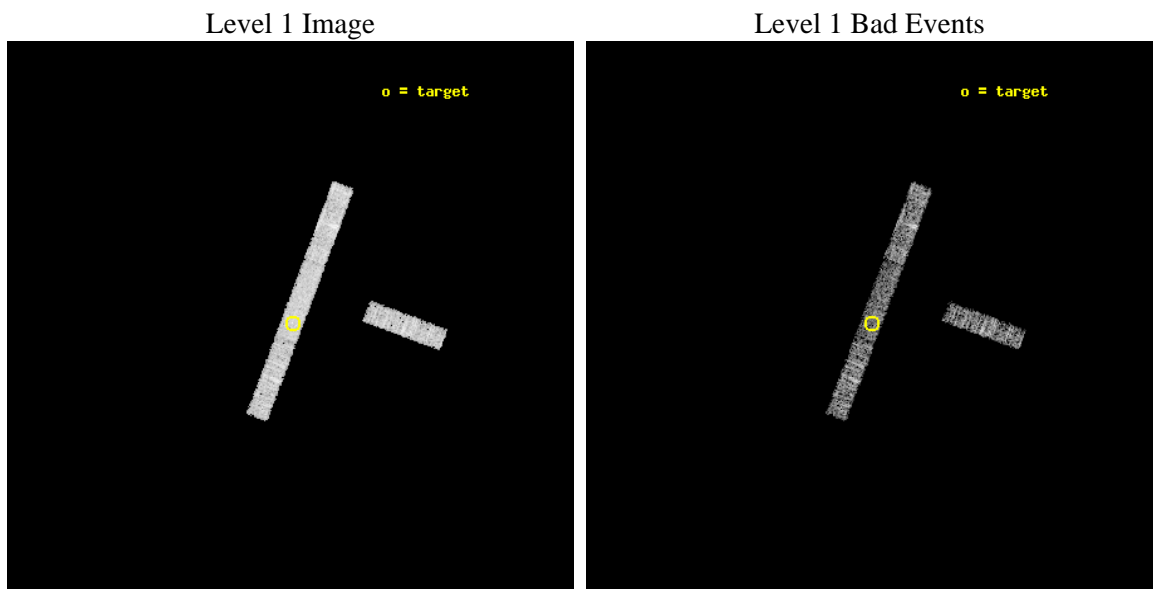
seq_num	701685	Sequence number
obs_id	9244	Observation id
title	Orientation effects in the X-ray and multi-wavelength properties of high-z, 3CRR quasars.	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	3CRR 68.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.12	Observer's specified target RA [deg]
dec_targ	34.396222	Observer's specified target Dec [deg]
ra_nom	38.124912893671	Nominal RA [deg]
dec_nom	34.393228660977	Nominal Dec [deg]
roll_nom	290.71474480241	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3170.0	Sum of GTIs [s]
livetime	3045.0318911857	Livetime [s]
ontime3	3170.0	Sum of GTIs [s]
ontime6	3170.0	Sum of GTIs [s]
ontime7	3170.0	Sum of GTIs [s]
ontime8	3170.0	Sum of GTIs [s]
l2events	7551	Number of level 2 events



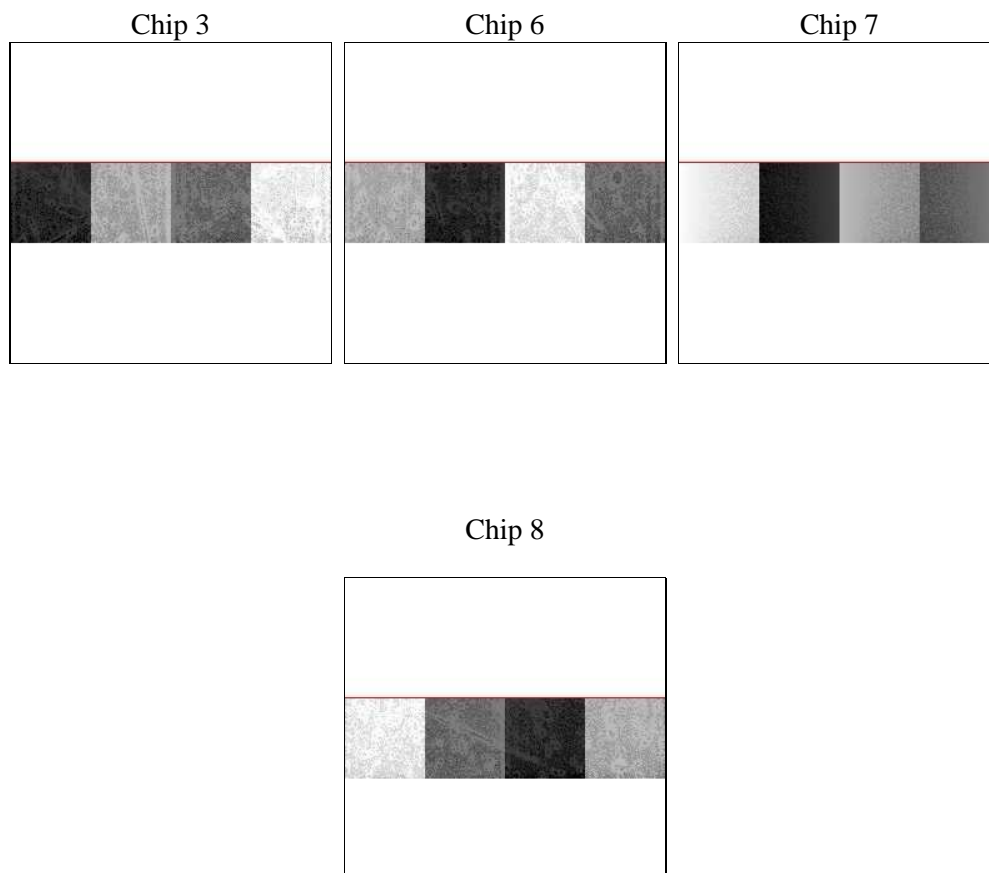
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3170.0	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime3	3170.0	Sum of GTIs [s]
date	2012-05-09T04:31:39	Date and time of file creation	ontime6	3170.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	3170.0	Sum of GTIs [s]
			ontime8	3170.0	Sum of GTIs [s]
			l1events	51921	Number of level 1 events

### 2.1.4 Events

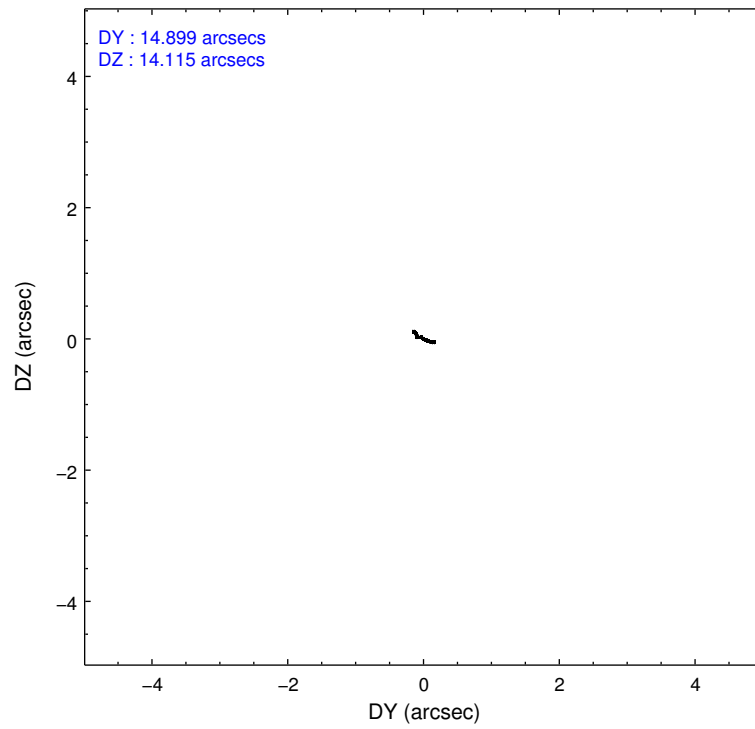
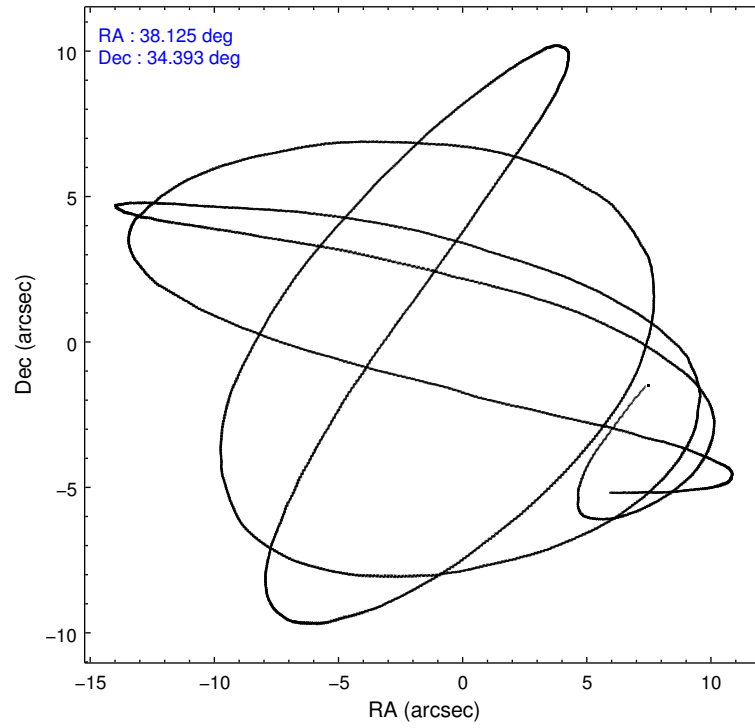
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	11446	11760	13768	14947
rejected events	10343	10684	8903	12187
rejected %	90%	90%	64%	81%

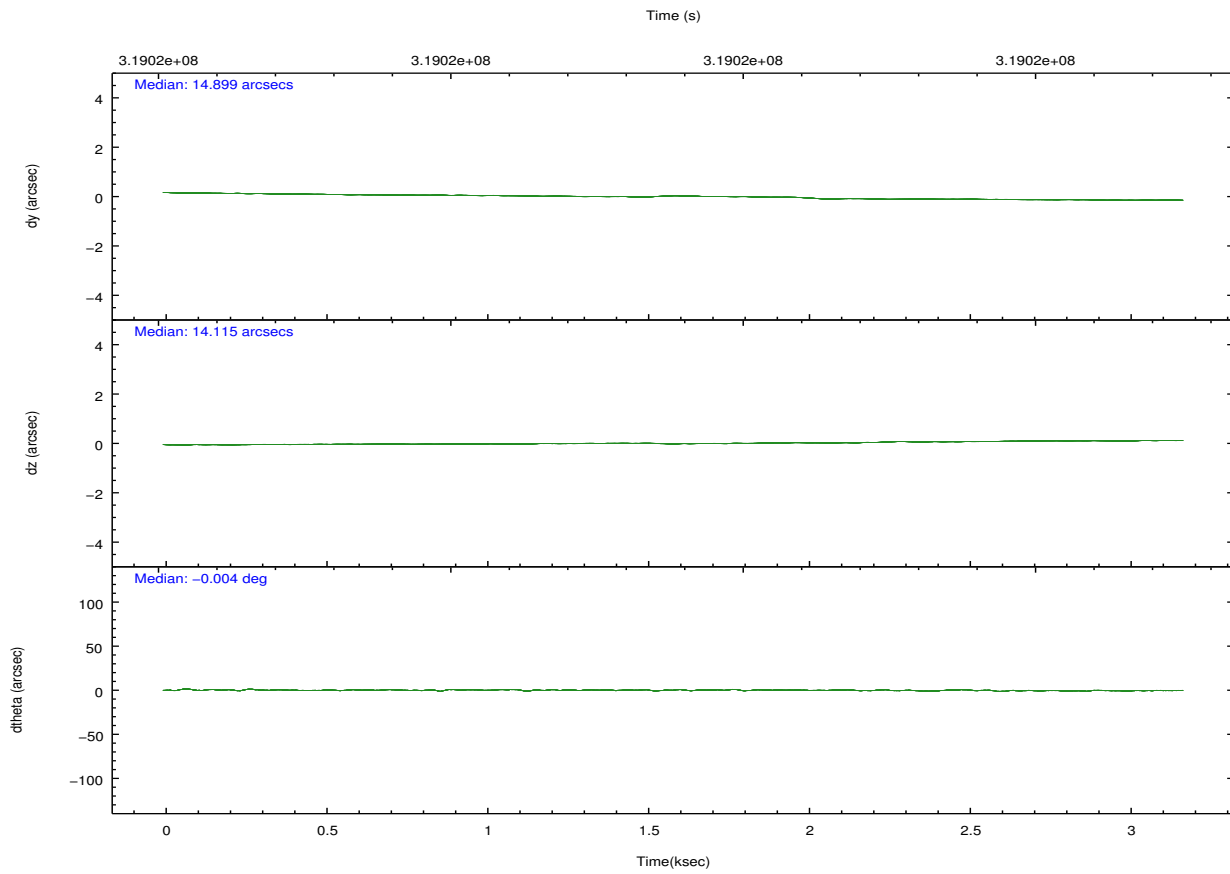
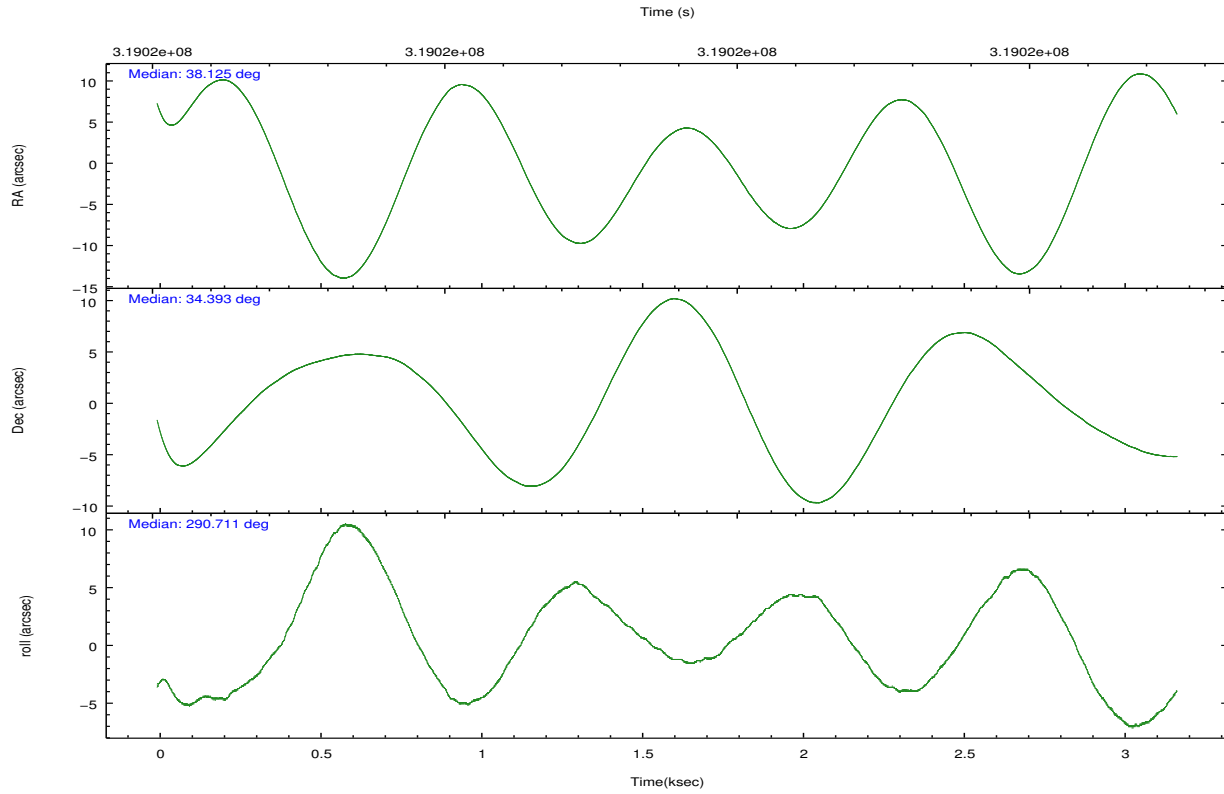
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	551	491	609	928
	4%	4%	4%	6%
grade 1 events	4	1	15	10
	0%	0%	0%	0%
grade 2 events	225	278	1239	689
	1%	2%	8%	4%
grade 3 events	175	171	630	350
	1%	1%	4%	2%
grade 4 events	187	168	621	342
	1%	1%	4%	2%
grade 5 events	456	457	1281	587
	3%	3%	9%	3%
grade 6 events	233	243	2943	975
	2%	2%	21%	6%
grade 7 events	9615	9951	6430	11066
	84%	84%	46%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	38.098721	38.12491289367139	CCD I2 on	N	N
[deg] Pointing Dec	34.410288	34.39322866097677	CCD I3 on	O1	Y
[deg] Pointing Roll	290.572909	290.7147448024105	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O2	Y
[s] Observation start time (MET)	319022338.184000	319021244.79699	CCD S5 on	N	N
Observation start date	2008-02-10T09:17:53	2008-02-10T09:00:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319025338.184000	319026209.89723	On-chip summing requested	N	N
Observation end date	2008-02-10T10:07:53	2008-02-10T10:23:29	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

## 2.3 Aspect



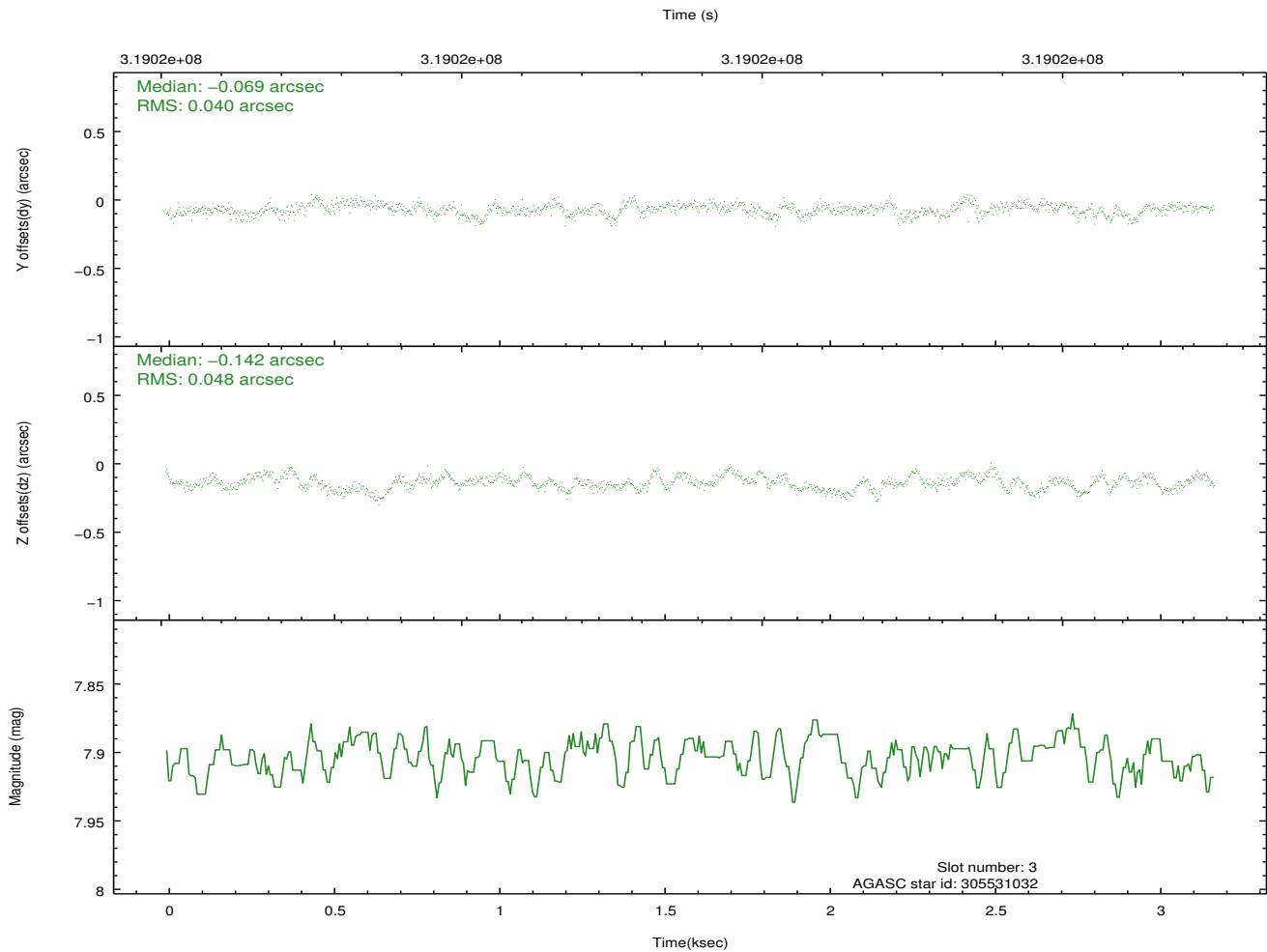
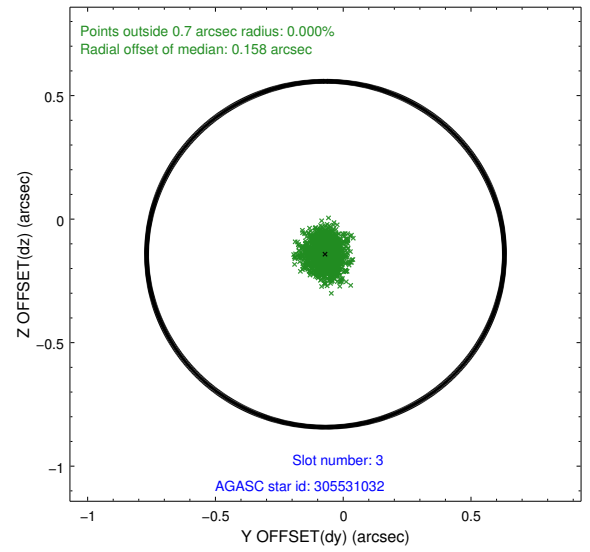
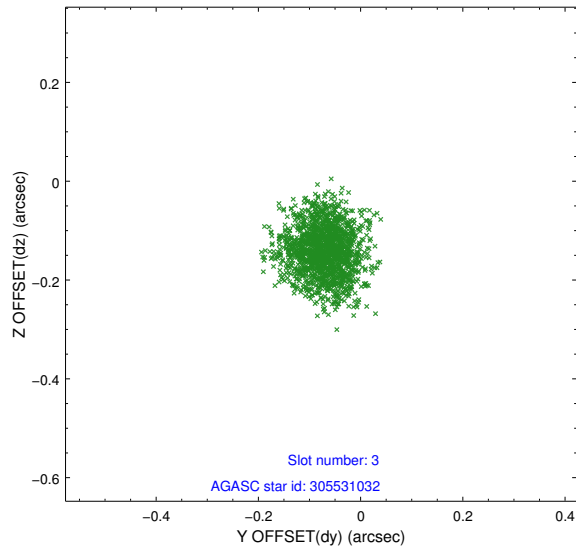


### Slot Statistics

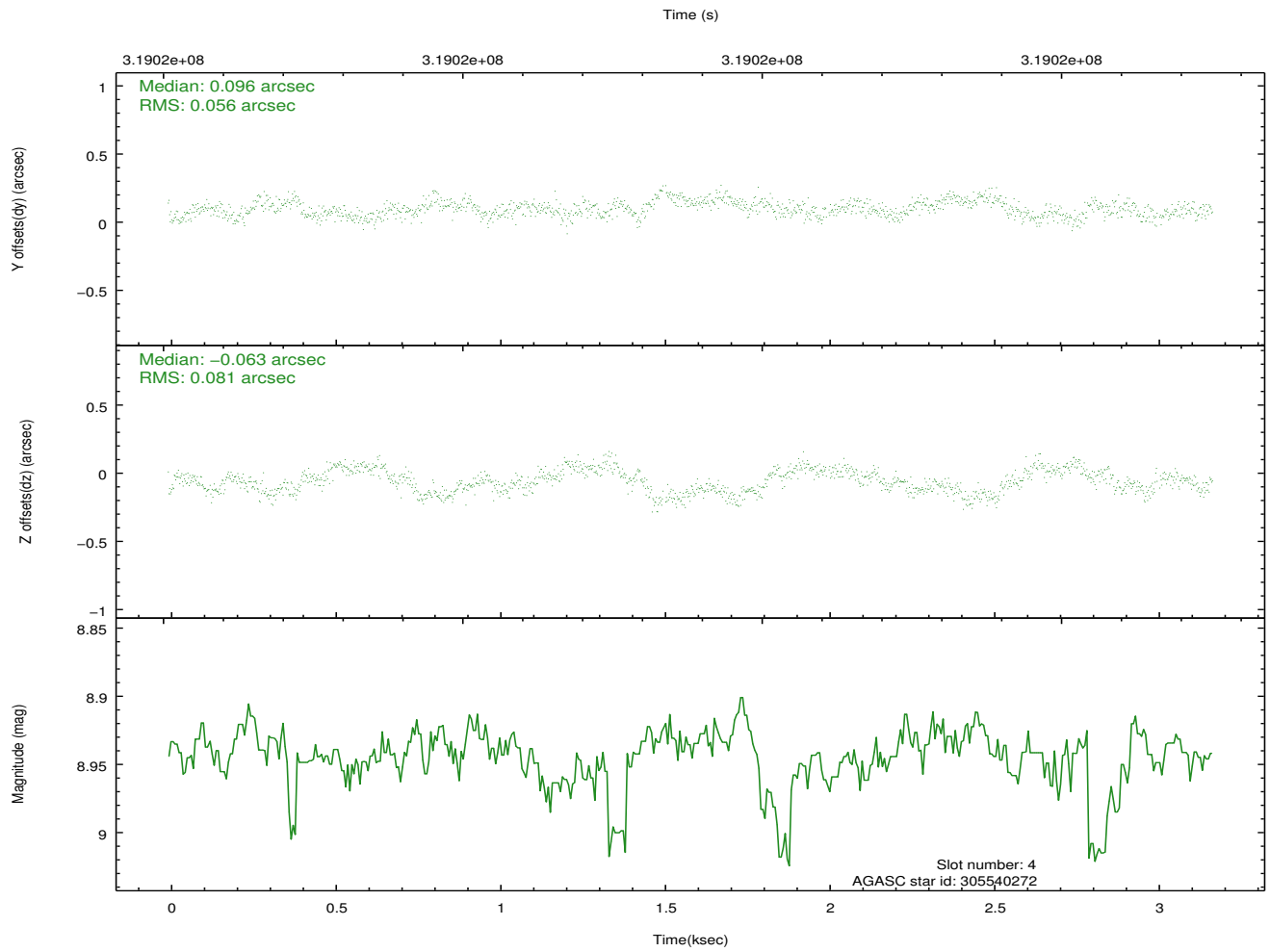
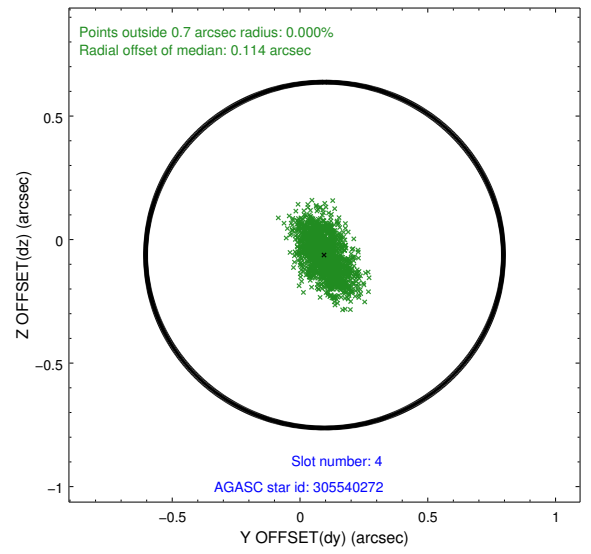
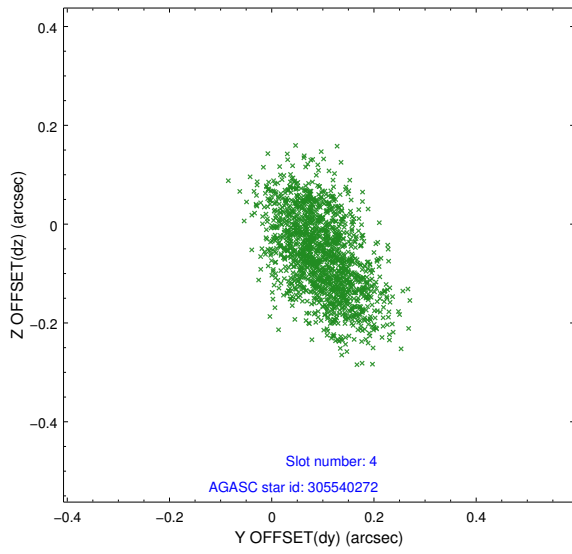
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	774	-0.086	-0.048	0.007	0.013	0.000000	0.000000	-767.95	-1735.48
1	FID	ACIS-S-4	7.19	773	0.193	0.054	0.006	0.009	0.000000	0.000000	2144.70	171.01
2	FID	ACIS-S-5	7.22	774	-0.139	0.002	0.007	0.013	0.000000	0.000000	-1818.26	166.93
3	GUIDE	305531032	7.90	1546	-0.069	-0.142	0.068	0.106	38.028374	34.678163	-976.05	143.63
4	GUIDE	305540272	8.94	1538	0.096	-0.063	0.106	0.174	37.928887	34.106200	845.86	-858.79
5	GUIDE	305667080	7.79	1547	-0.179	0.184	0.069	0.116	38.573646	35.150111	-2005.14	2245.00
6	GUIDE	305672248	8.10	1548	-0.005	0.086	0.068	0.112	38.841835	34.366304	914.90	2015.61
7	GUIDE	305674744	7.80	1547	0.152	-0.063	0.061	0.098	38.679832	34.084194	1703.74	1212.63

## 2.4 Star Slots

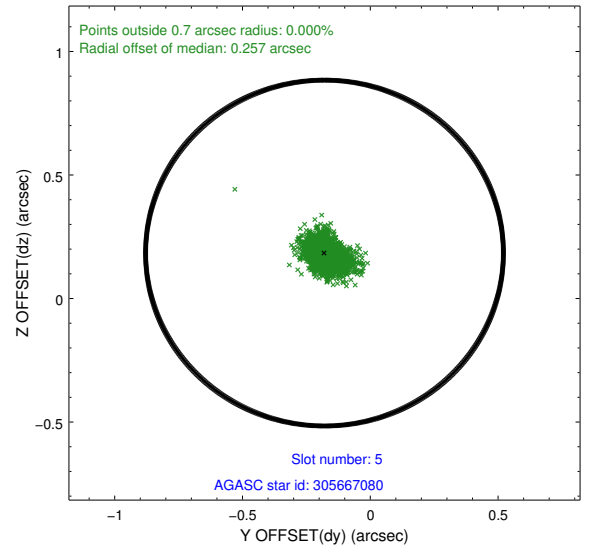
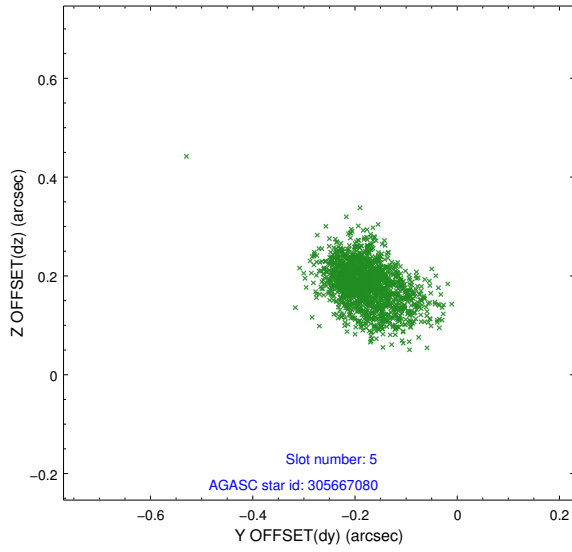
### 2.4.1 Slot 3



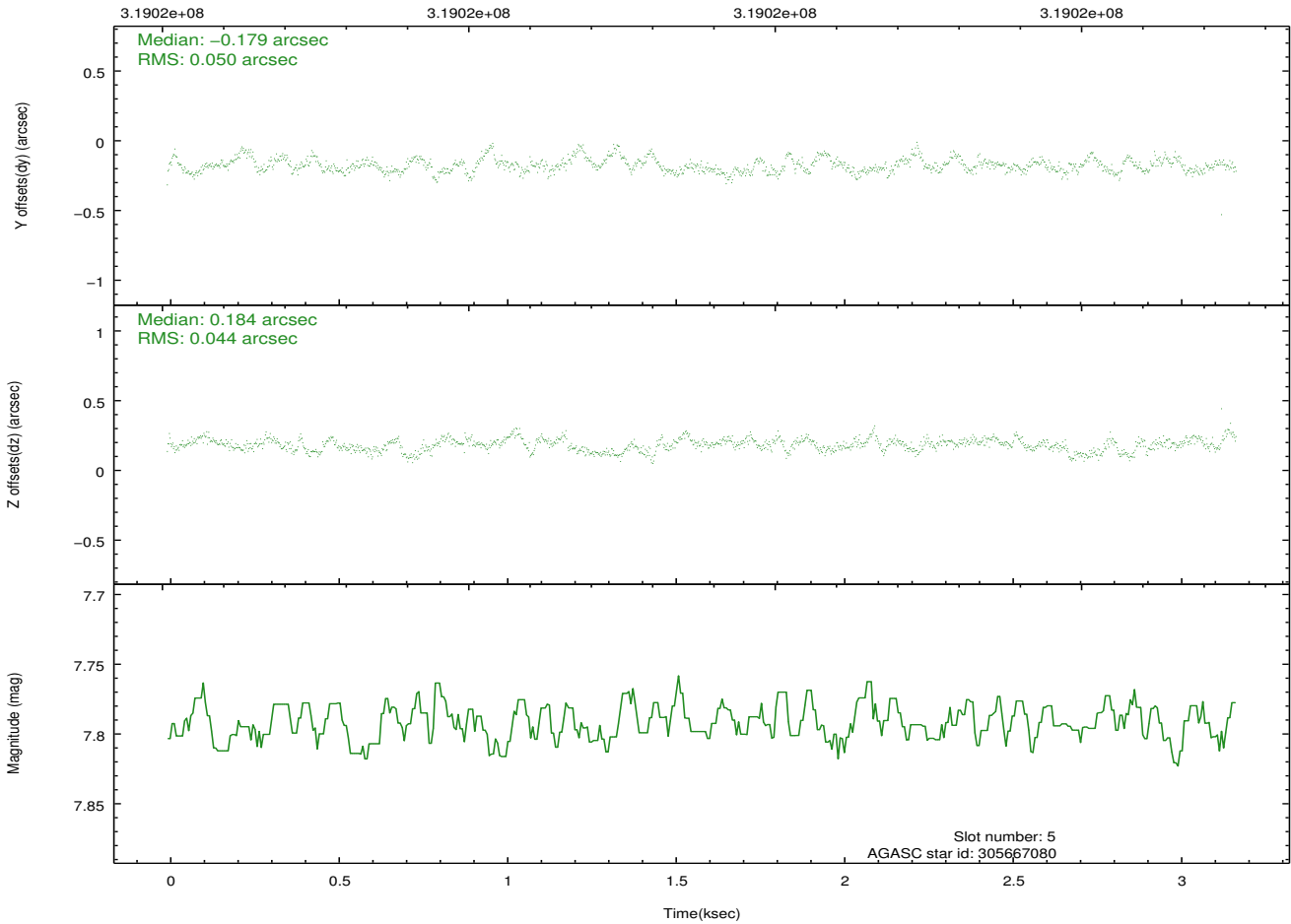
## 2.4.2 Slot 4



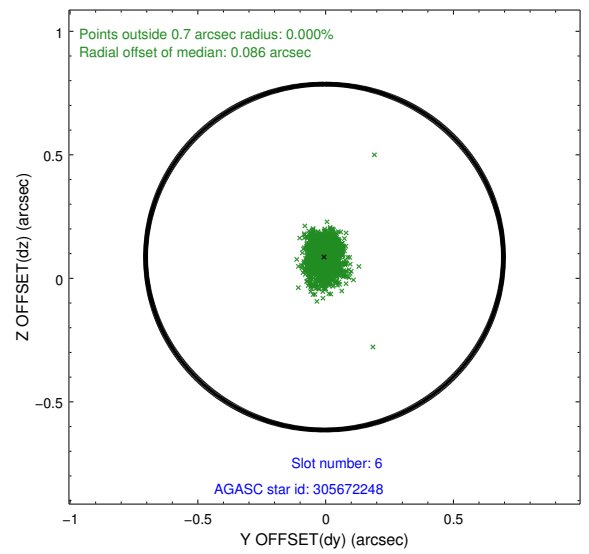
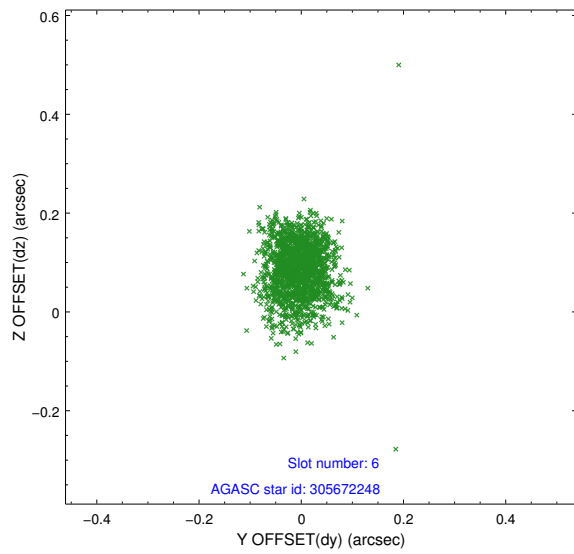
### 2.4.3 Slot 5



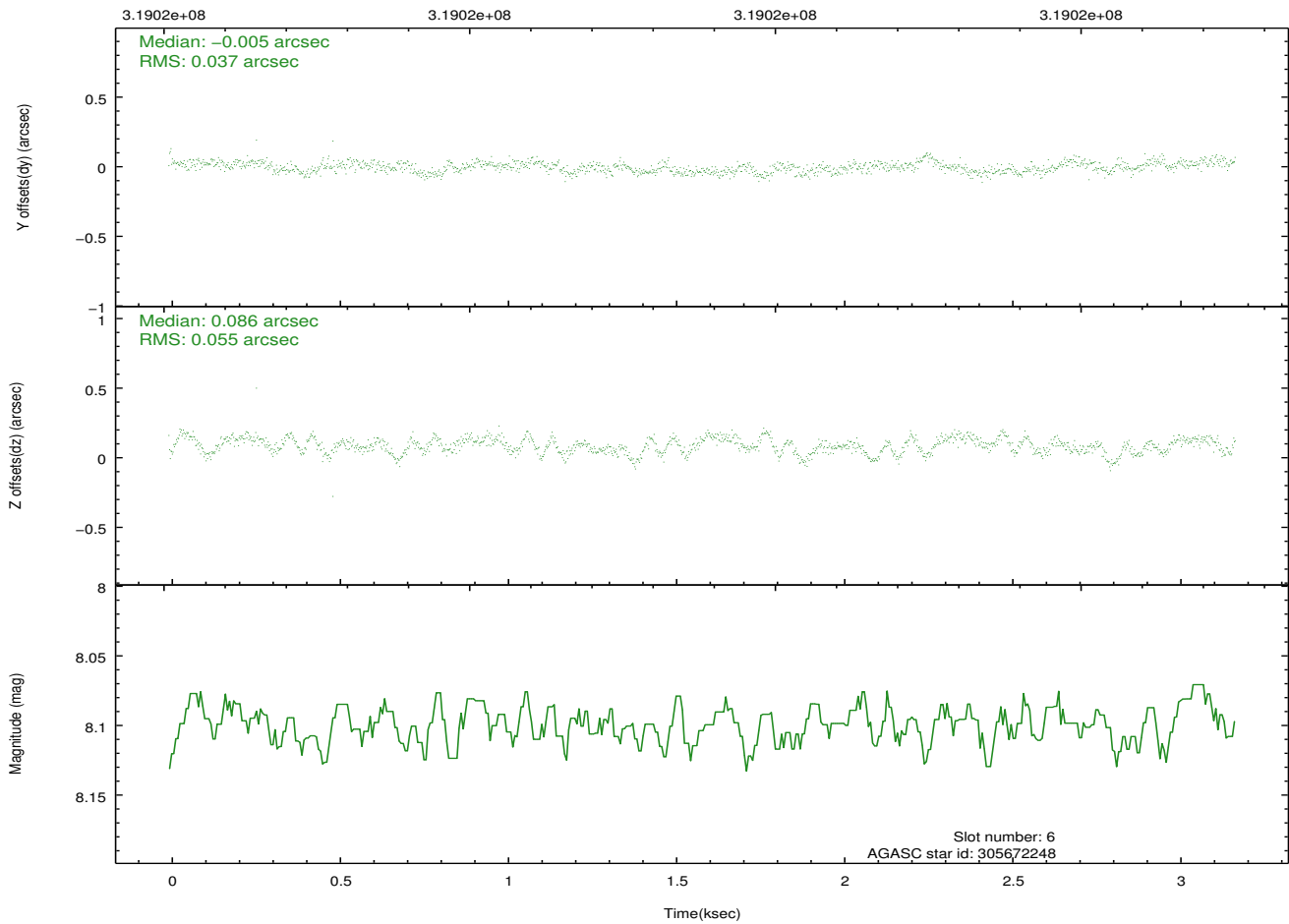
Time (s)



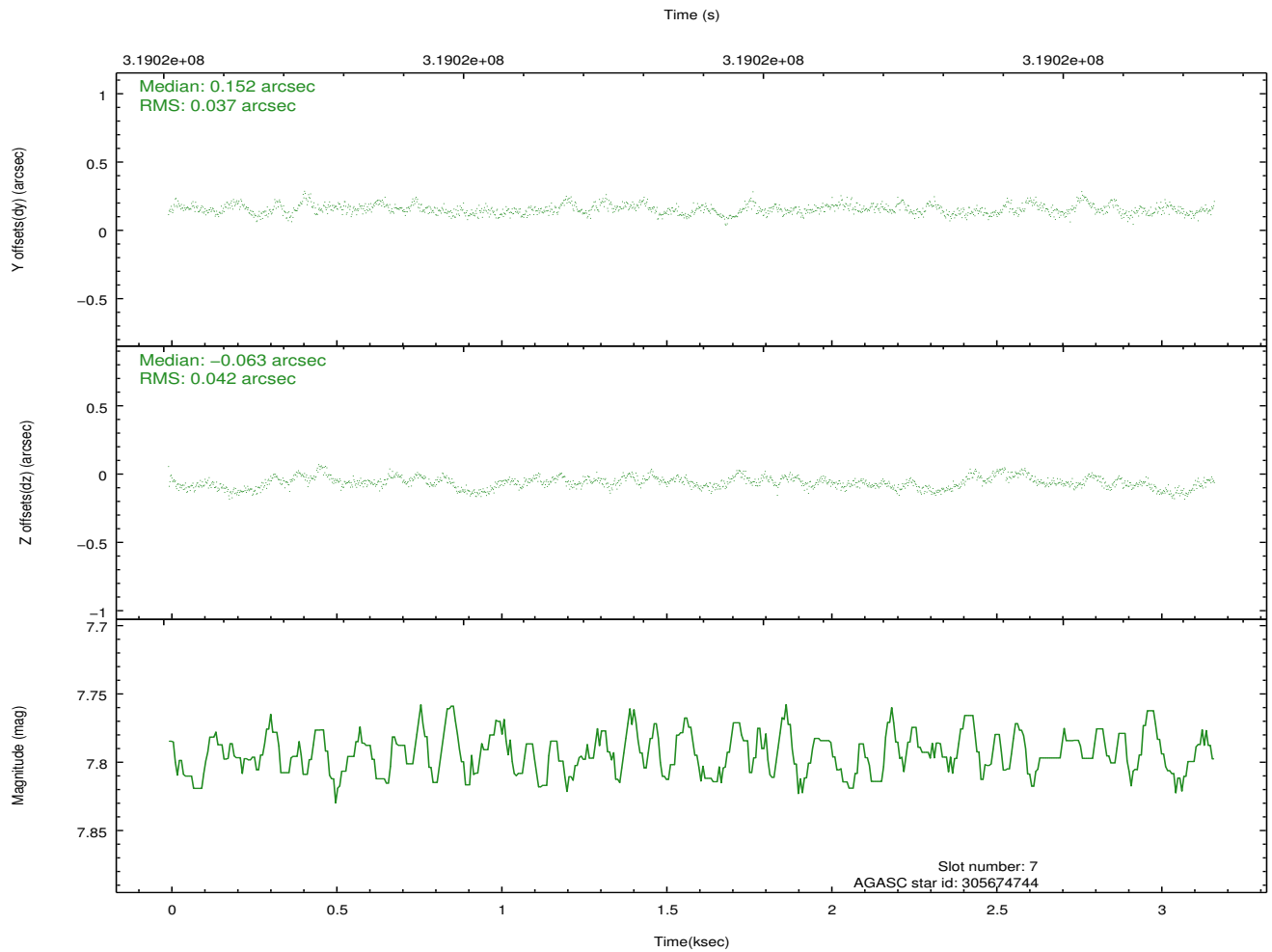
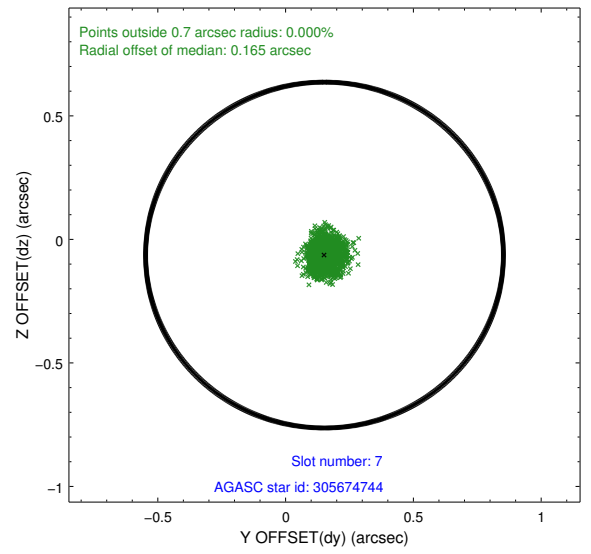
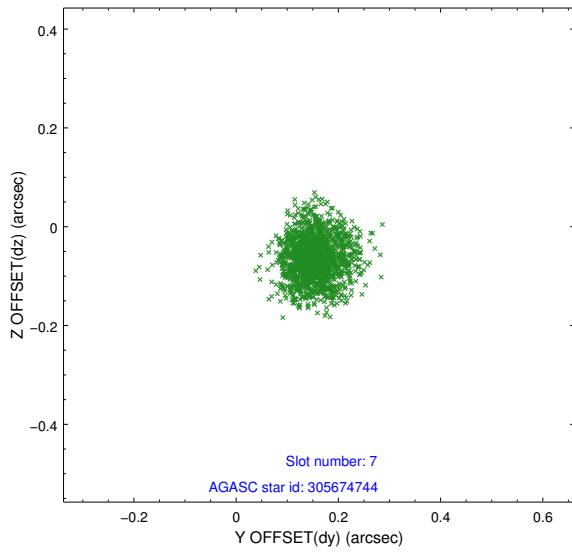
## 2.4.4 Slot 6



Time (s)

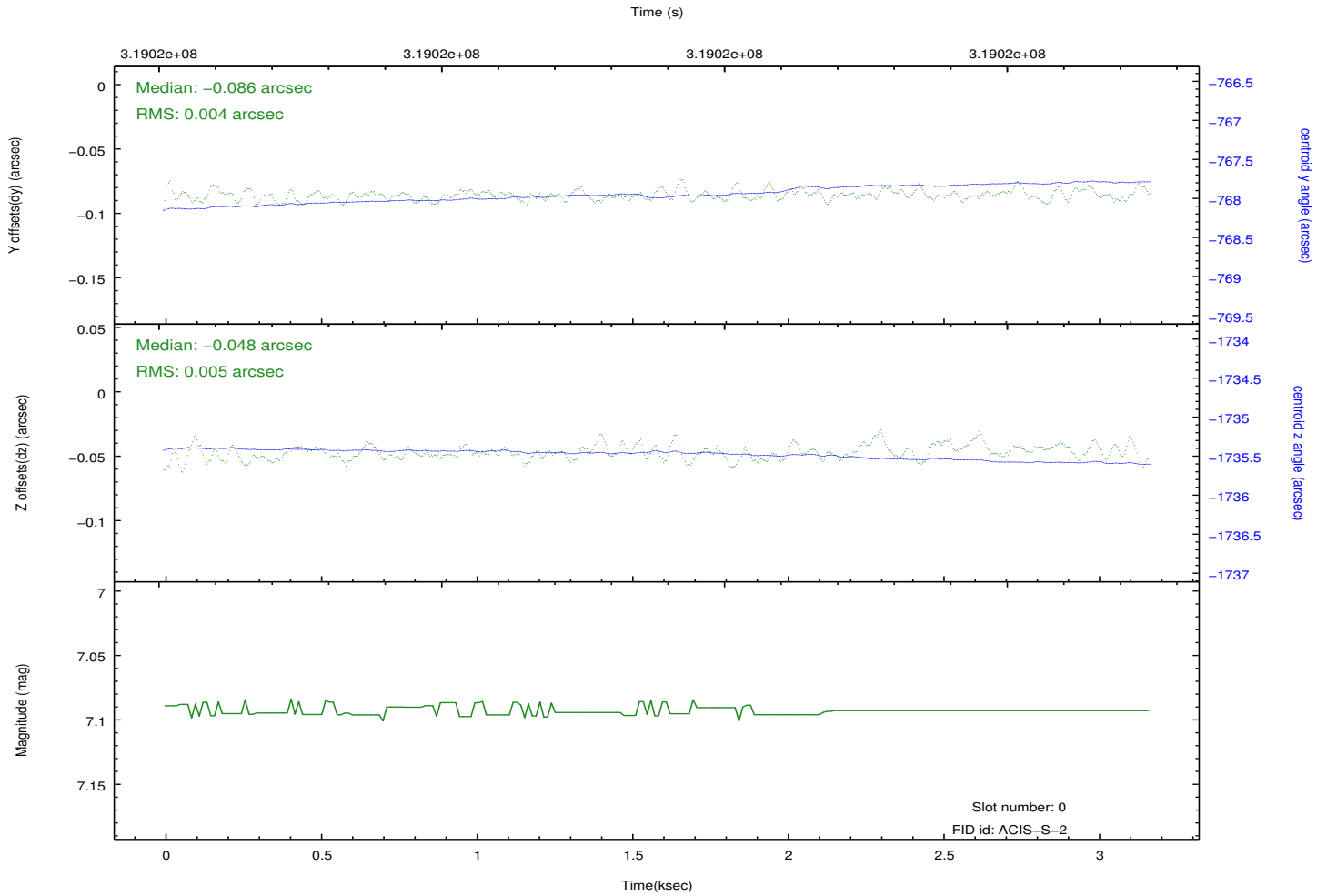
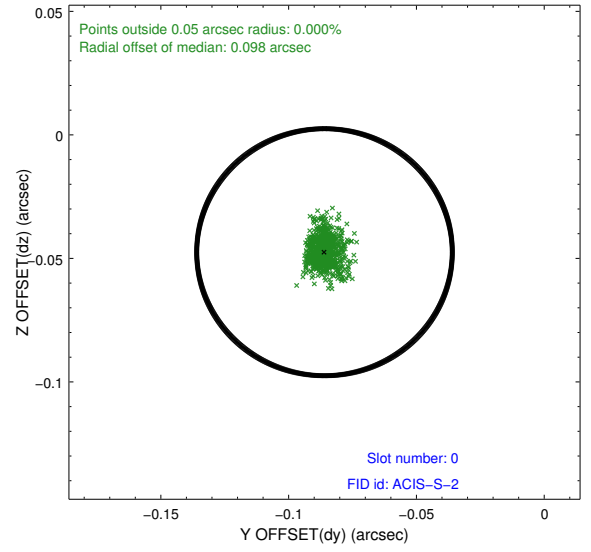
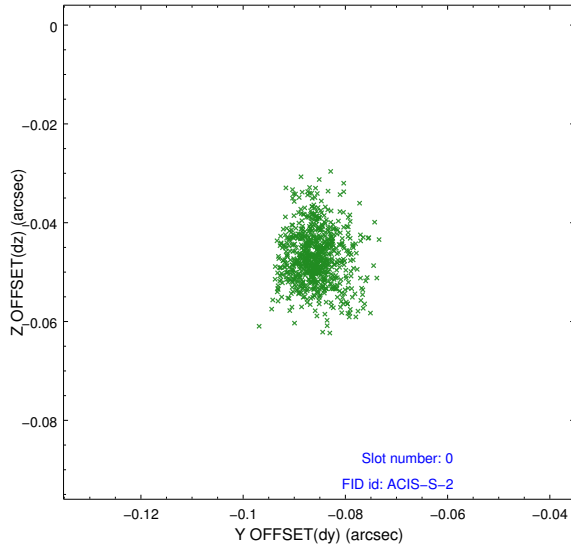


### 2.4.5 Slot 7

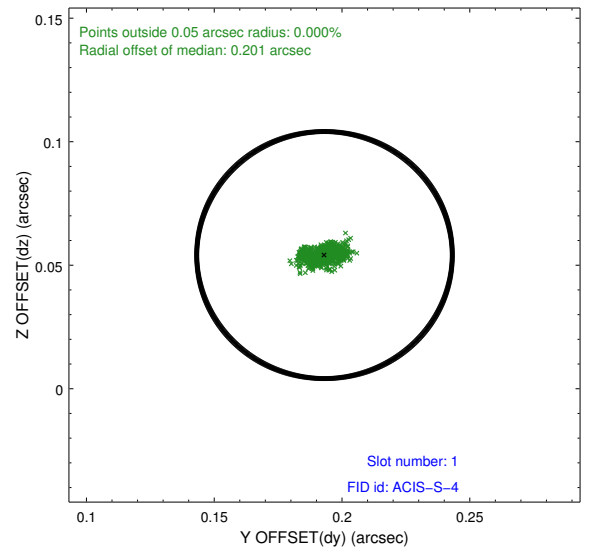
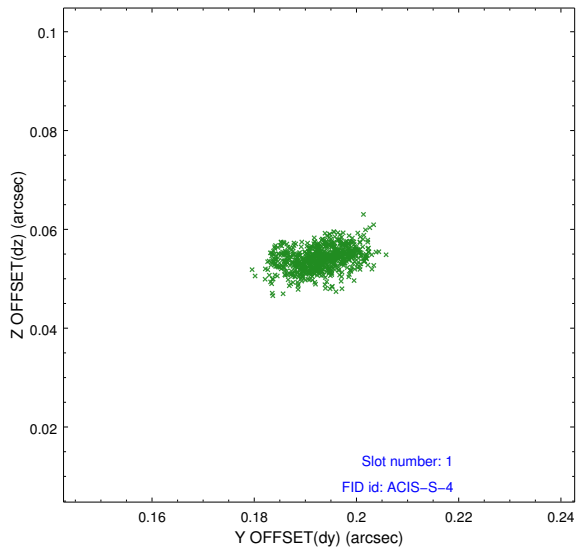


## 2.5 FID Slots

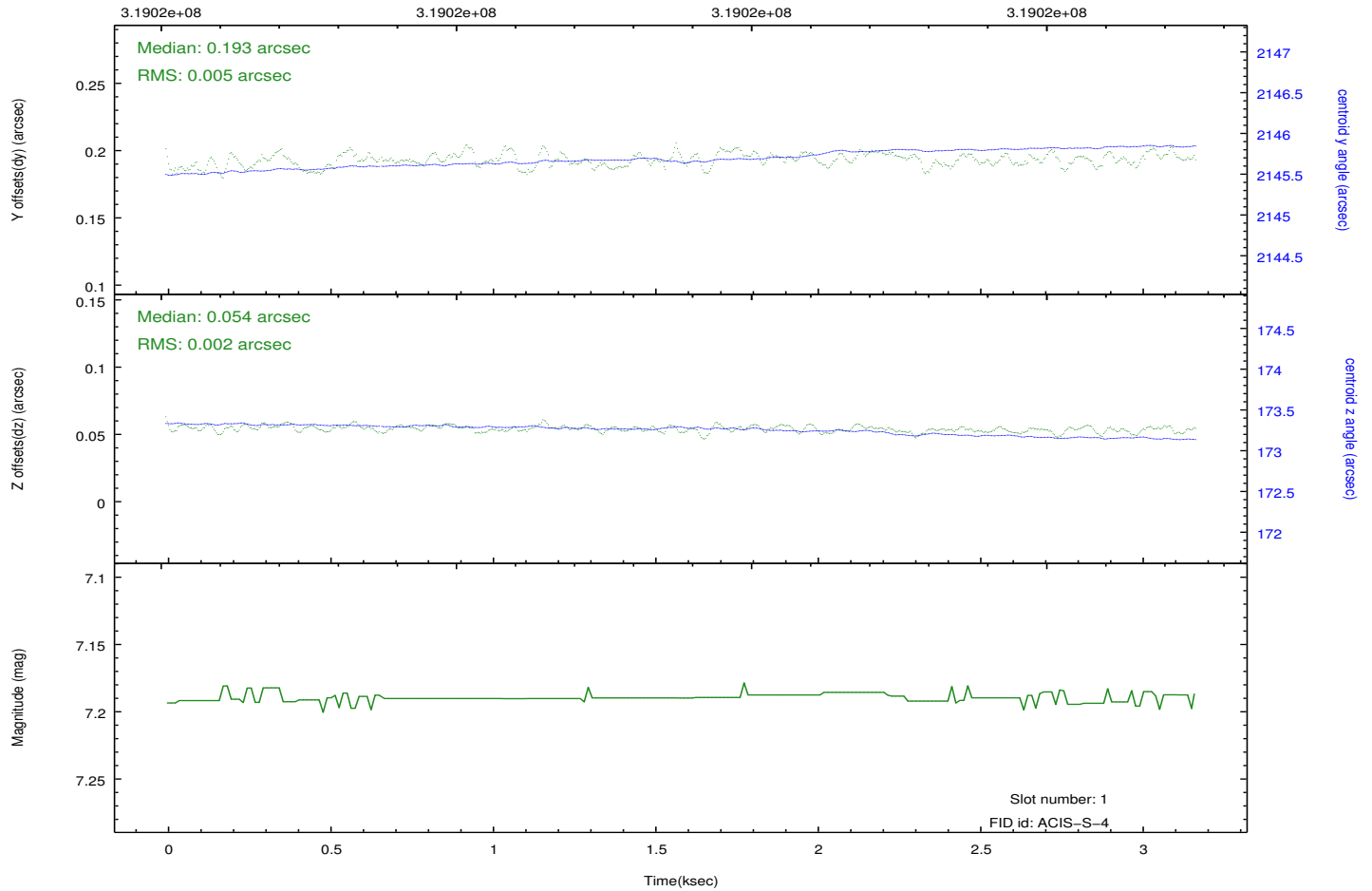
### 2.5.1 Slot 0



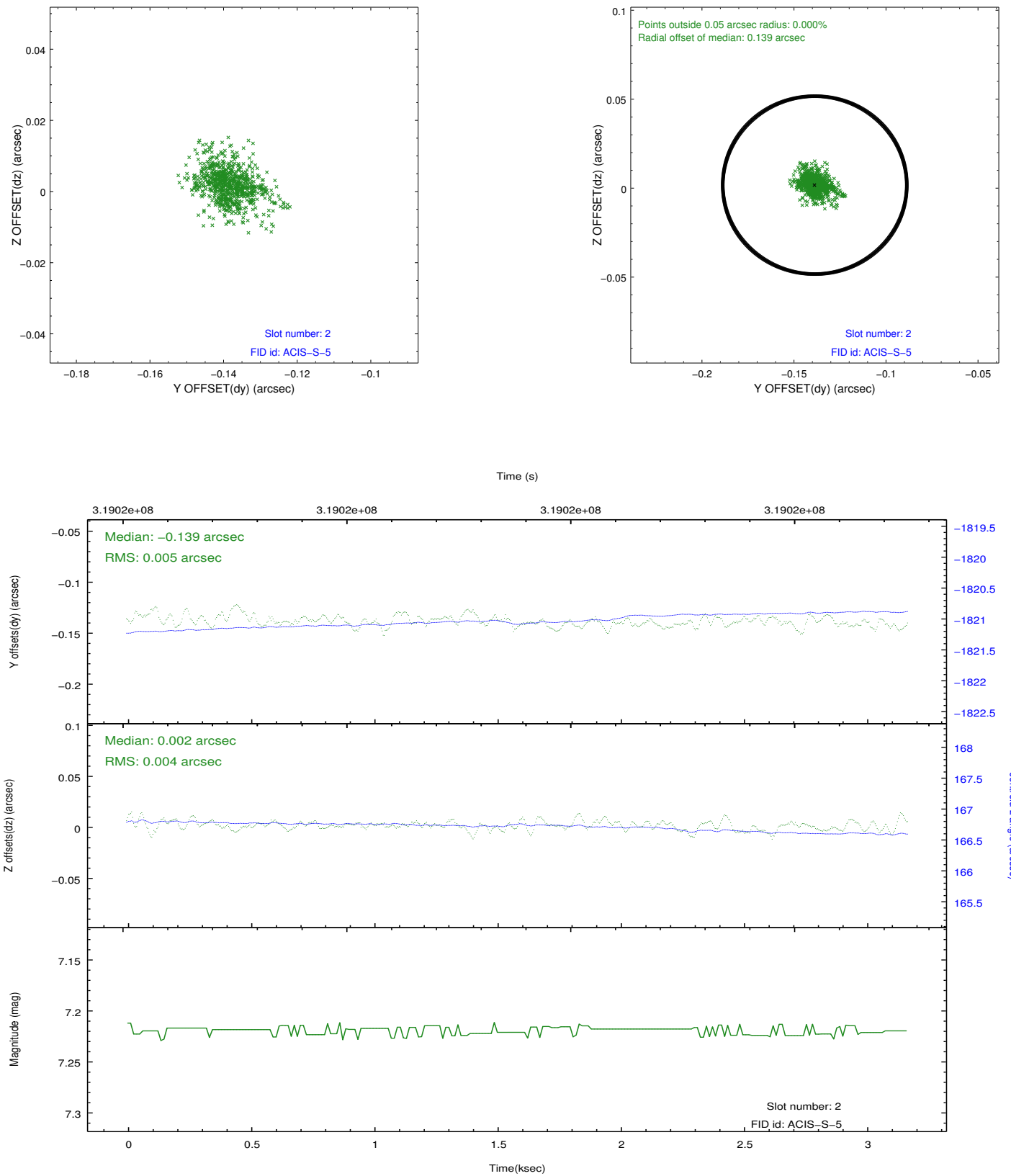
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.17

## A.2 Comments