

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4758 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 12 2012

## Contents

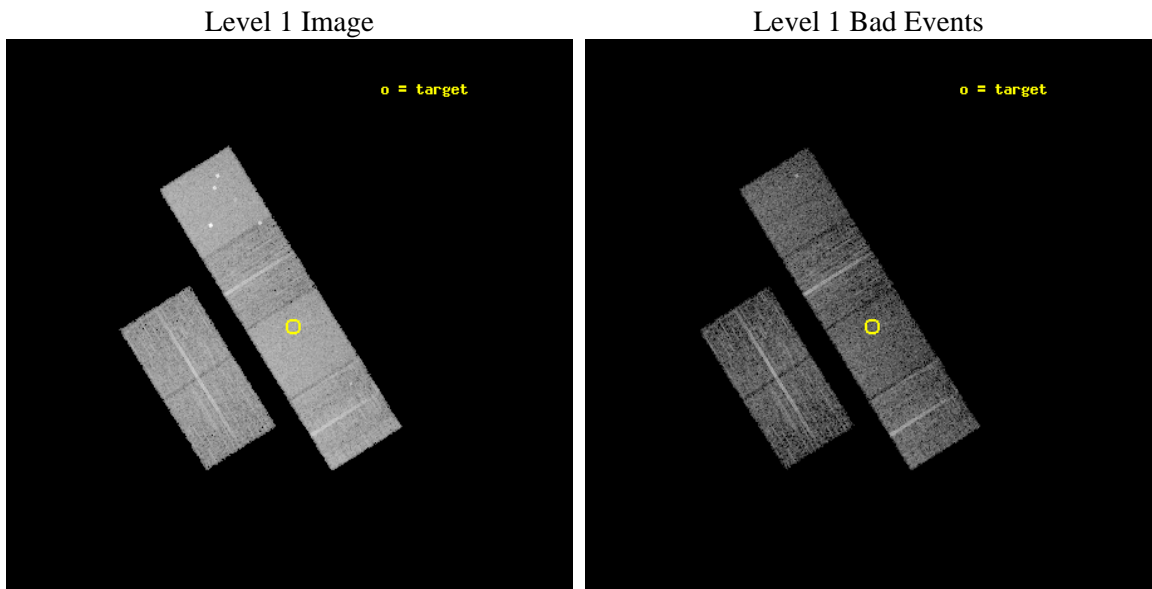
<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 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



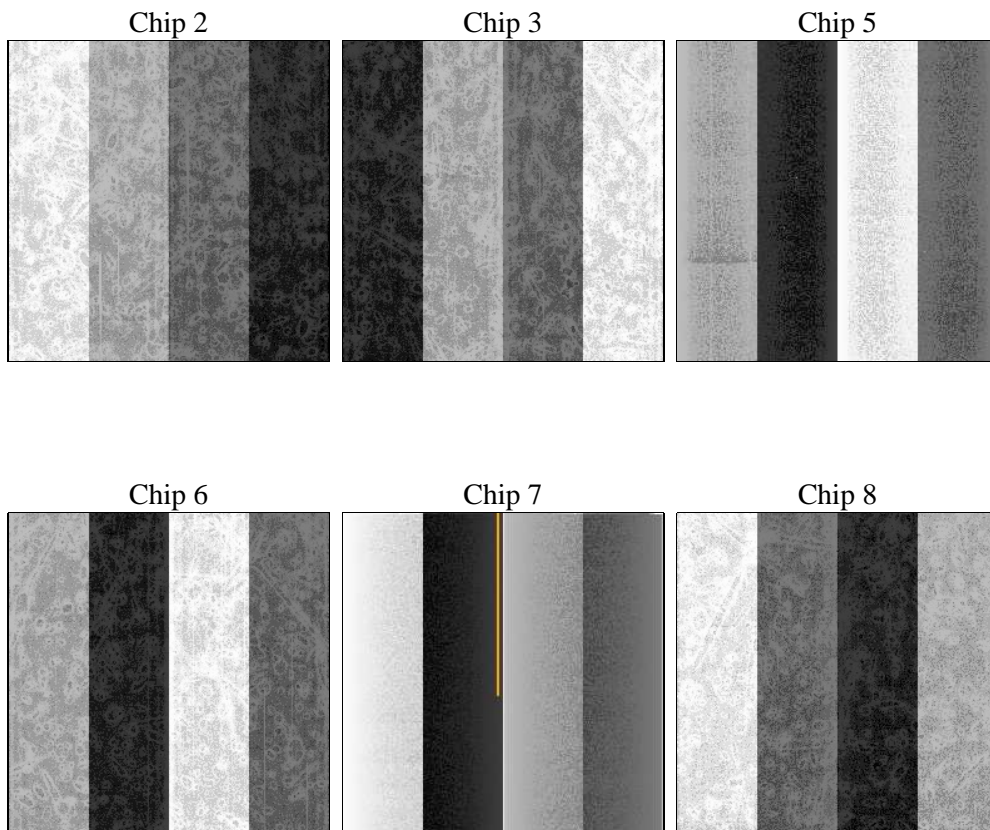
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6958.615229845	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	6958.6562698483	Sum of GTIs [s]
date	2012-11-12T15:07:58	Date and time of file creation	ontime3	6958.4921098351	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6958.5741898417	Sum of GTIs [s]
			ontime6	6958.5331498384	Sum of GTIs [s]
			ontime7	6958.615229845	Sum of GTIs [s]
			ontime8	6958.4510698617	Sum of GTIs [s]
			l1events	326304	Number of level 1 events

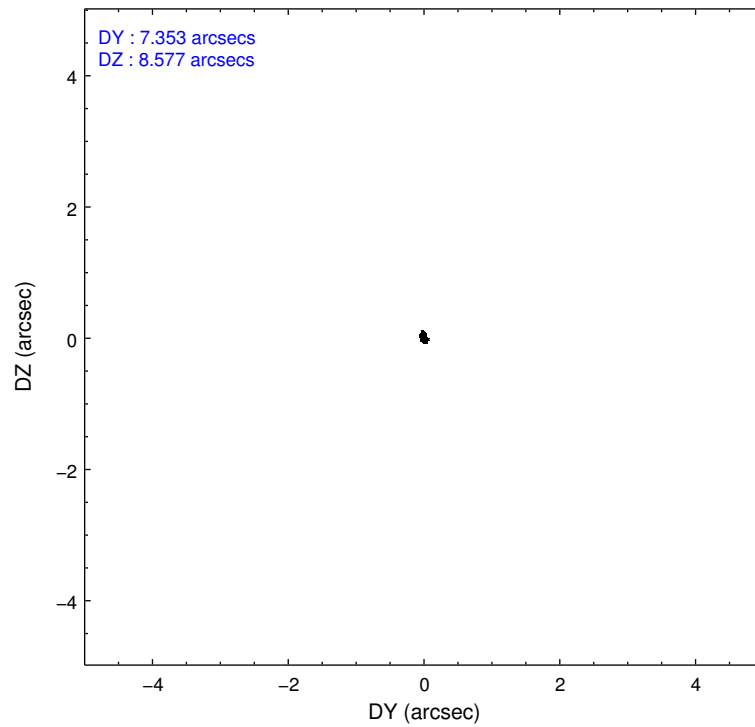
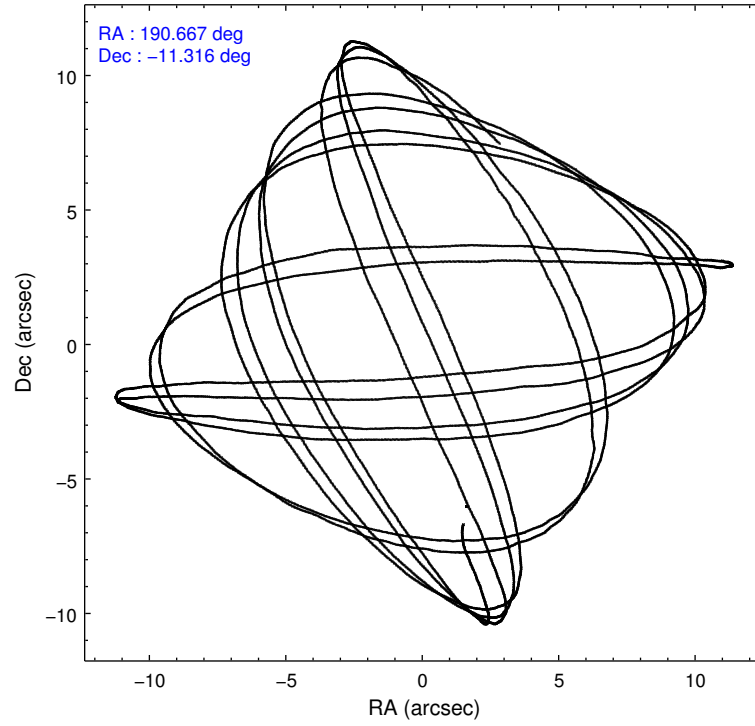
### 2.1.4 Events

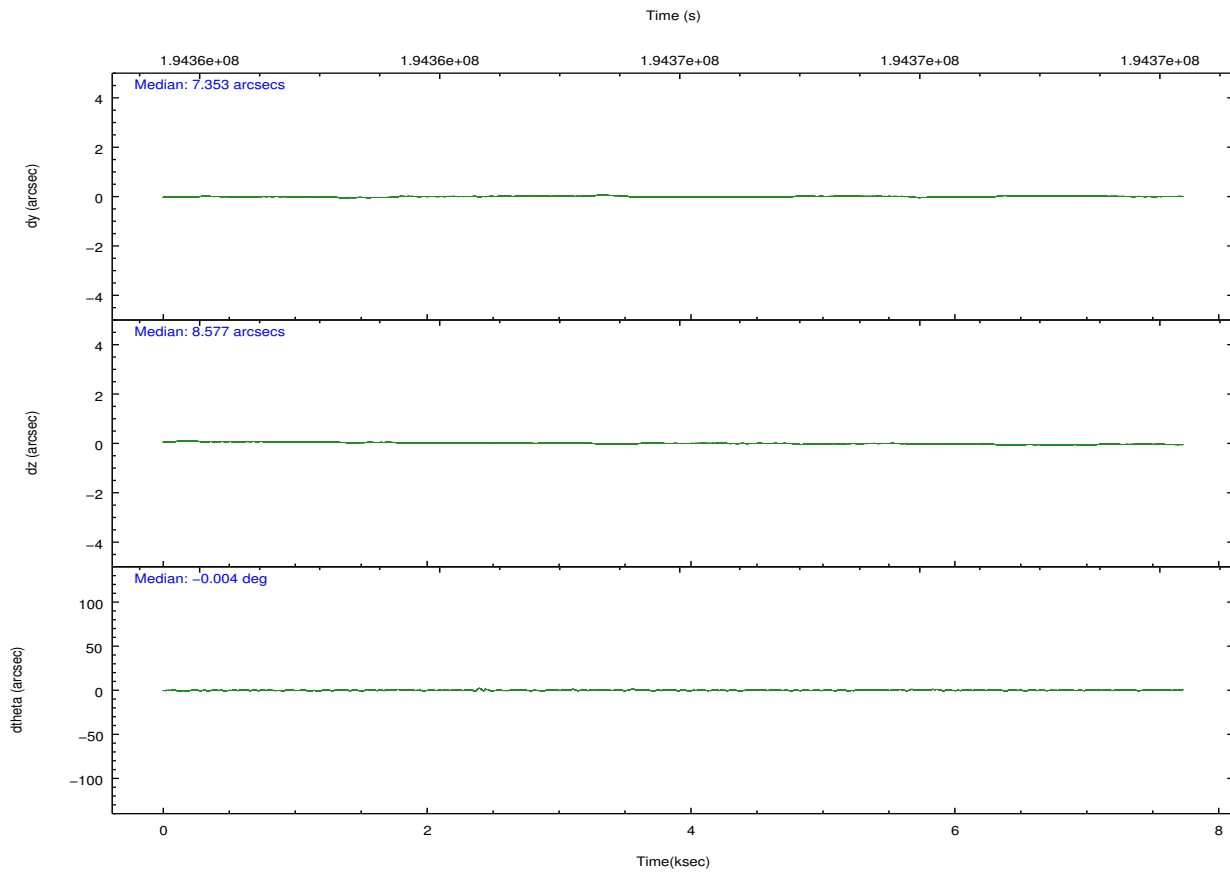
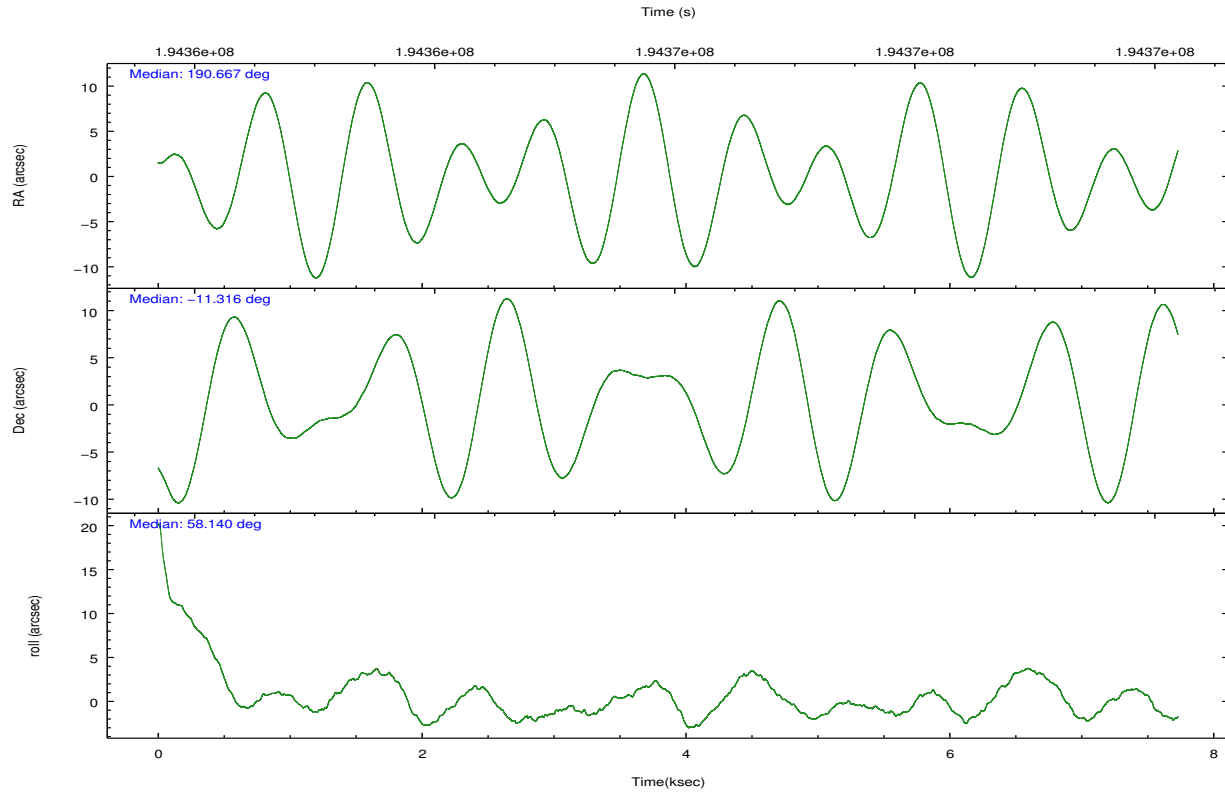
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45787	43702	71090	46310	61878	57537	grade 0 events	2410	2432	4924	2205	2398	3975
rejected events	40230	38194	37727	40789	36440	45106		5%	5%	6%	4%	3%	6%
rejected %	87%	87%	53%	88%	58%	78%	grade 1 events	21	21	121	16	67	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	1171	1016	9606	1134	4971	2694
								2%	2%	13%	2%	8%	4%
							grade 3 events	524	563	1356	567	2170	1325
								1%	1%	1%	1%	3%	2%
							grade 4 events	541	534	1093	538	2249	1304
								1%	1%	1%	1%	3%	2%
							grade 5 events	1892	2010	5147	2124	5802	2761
								4%	4%	7%	4%	9%	4%
							grade 6 events	917	971	16418	1083	13665	3138
								2%	2%	23%	2%	22%	5%
							grade 7 events	38311	36155	32425	38643	30556	42305
								83%	82%	45%	83%	49%	73%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	190.666491	190.6669812982078	Subarray requested	NONE	NONE
[deg] Pointing Dec	-11.342533	-11.31530693662346	Alternating exposures requested	N	N
[deg] Pointing Roll	57.989751	58.14648860657889	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	194362808.184000	194361575.93135			
Observation start date	2004-02-28T13:39:04	2004-02-28T13:19:35			
[s] Observation end time (MET)	194369808.184000	194370670.75675			
Observation end date	2004-02-28T15:35:44	2004-02-28T15:51:10			
Read mode	TIMED	TIMED			

## 2.3 Aspect



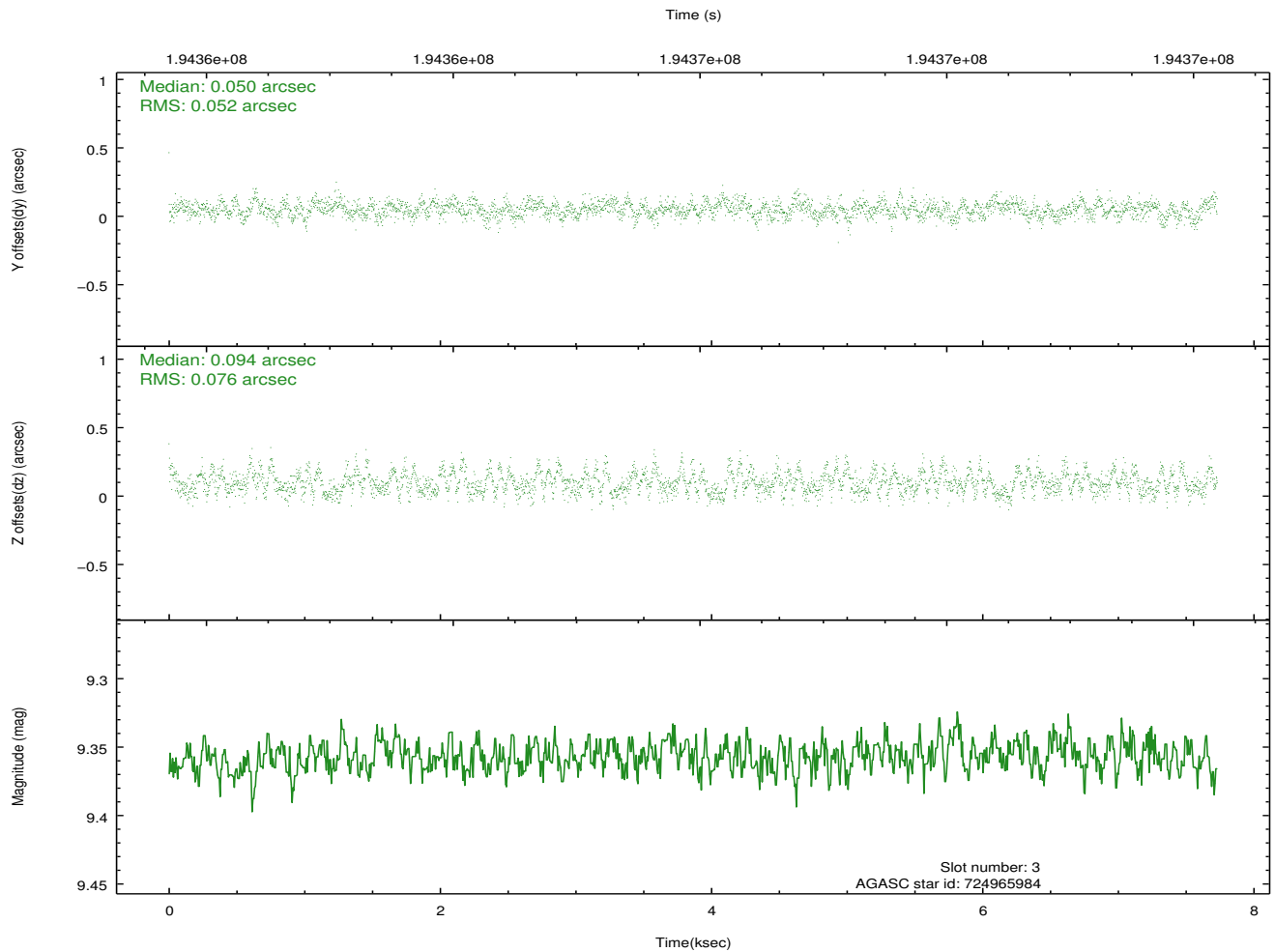
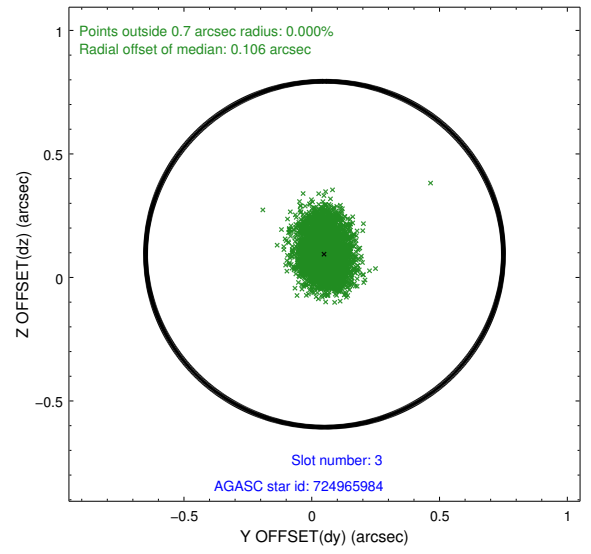
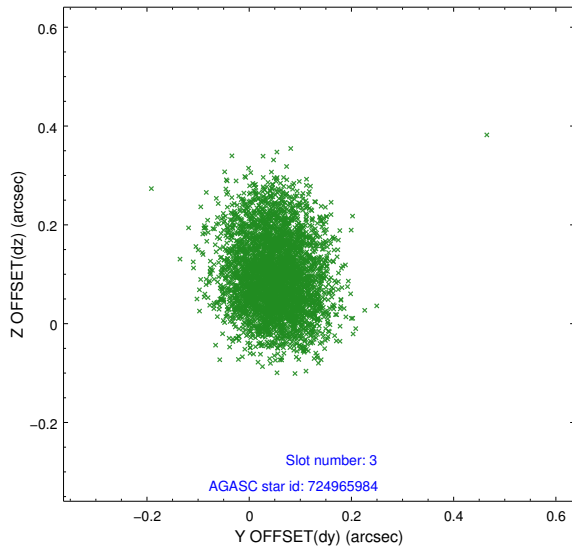


### Slot Statistics

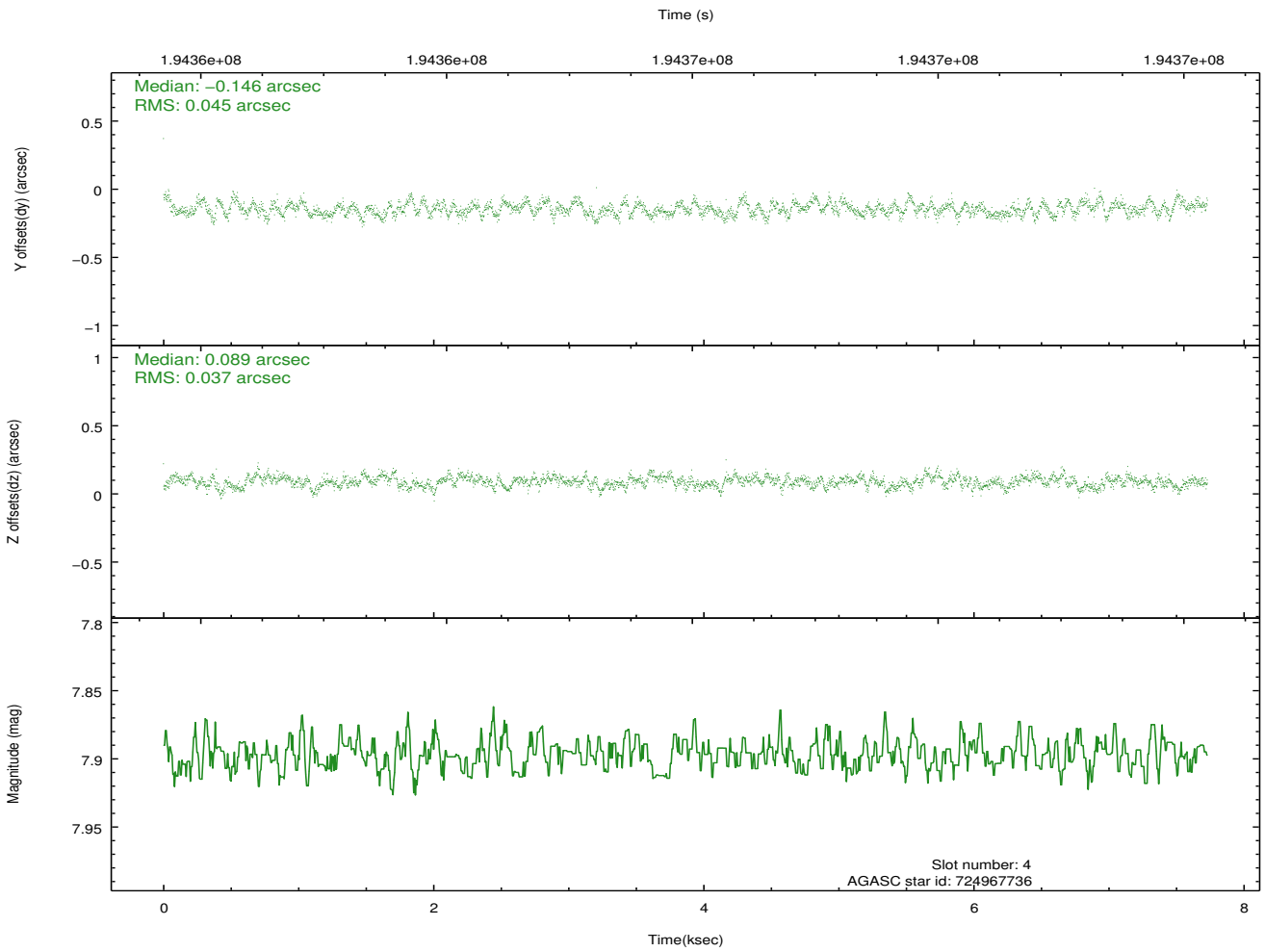
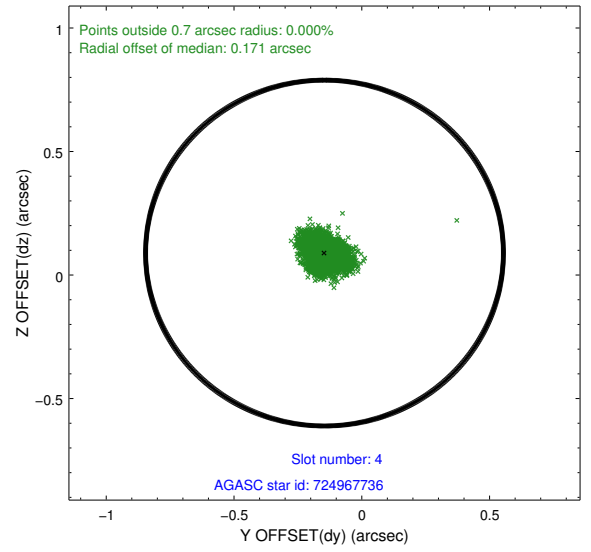
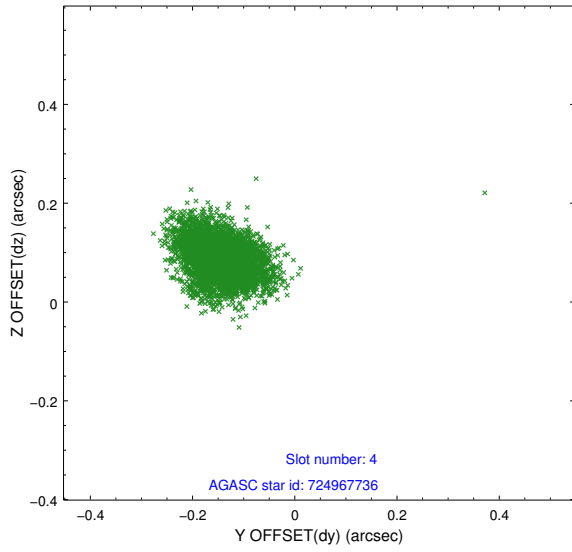
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1886	-0.014	-0.036	0.007	0.011	0.000000	0.000000	-760.13	-1729.77
1	FID	ACIS-S-4	7.21	1886	0.056	0.016	0.006	0.010	0.000000	0.000000	2152.89	178.00
2	FID	ACIS-S-5	7.23	1886	-0.074	0.029	0.007	0.011	0.000000	0.000000	-1812.09	172.53
3	GUIDE	724965984	9.36	3769	0.050	0.094	0.098	0.160	191.038520	-11.936246	-1117.86	-2244.38
4	GUIDE	724967736	7.90	3772	-0.146	0.089	0.062	0.100	191.267974	-10.999423	2172.37	-1148.92
5	GUIDE	724969752	8.53	3771	-0.005	0.040	0.068	0.113	191.101692	-11.318790	886.96	-1257.96
6	GUIDE	724970568	9.27	3771	0.132	-0.045	0.092	0.149	190.273943	-11.584336	-1472.06	711.65
7	GUIDE	724971048	8.80	3769	-0.030	-0.181	0.072	0.117	190.547082	-11.185183	256.50	658.01

## 2.4 Star Slots

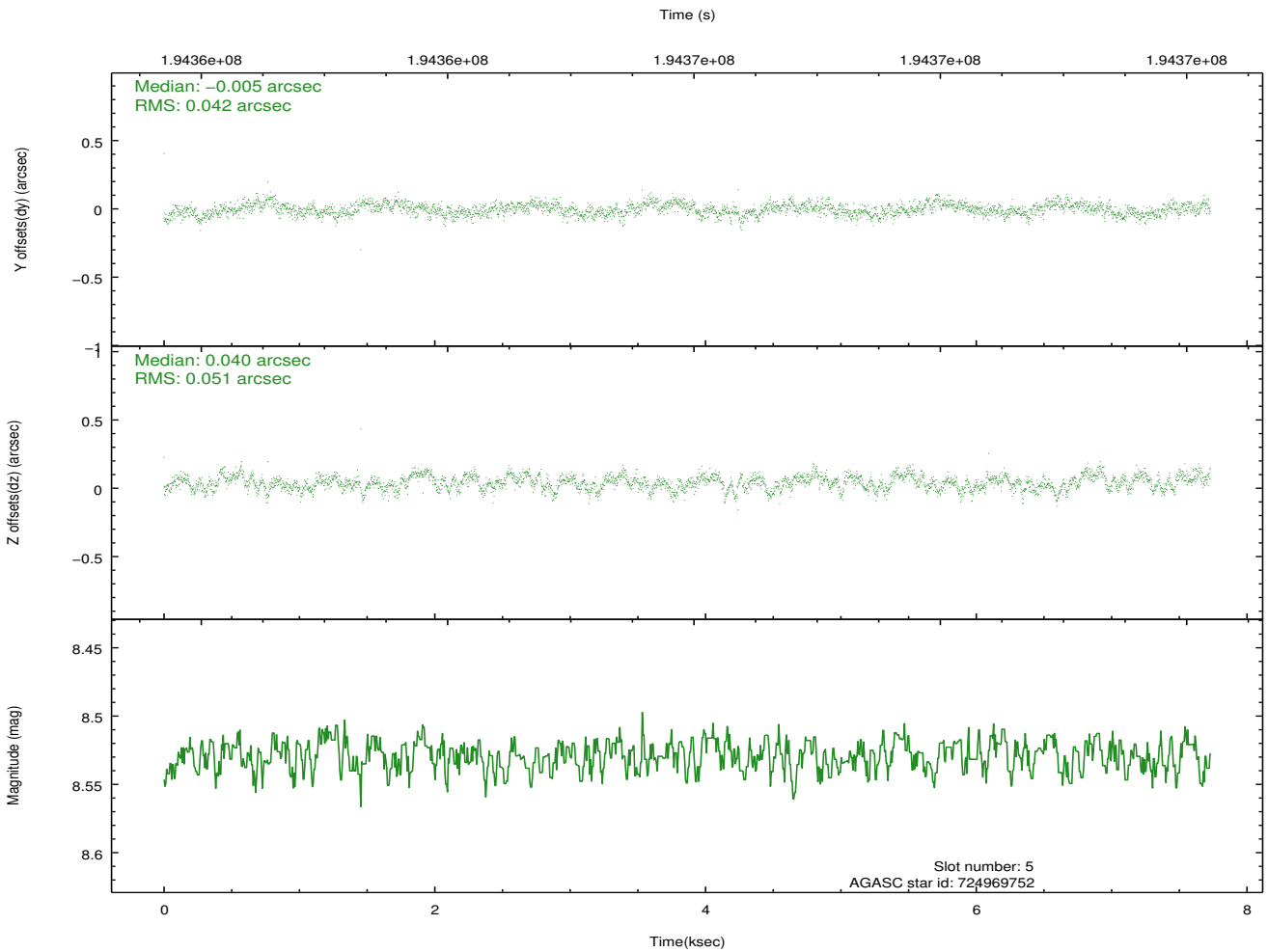
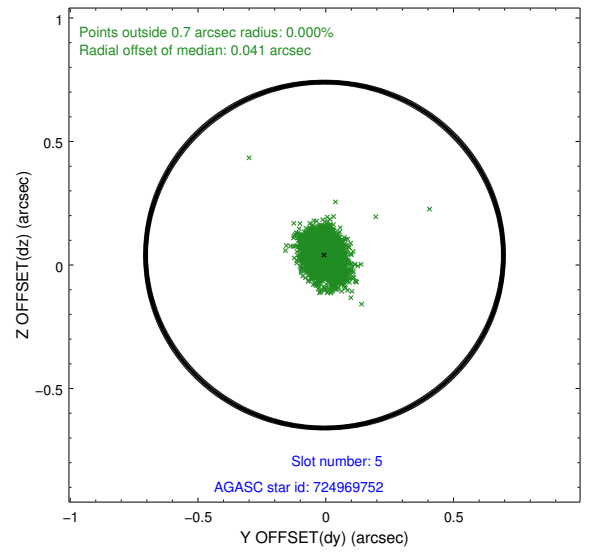
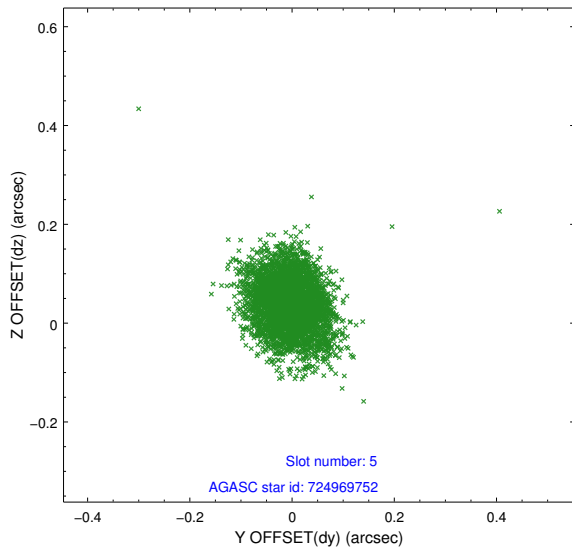
### 2.4.1 Slot 3



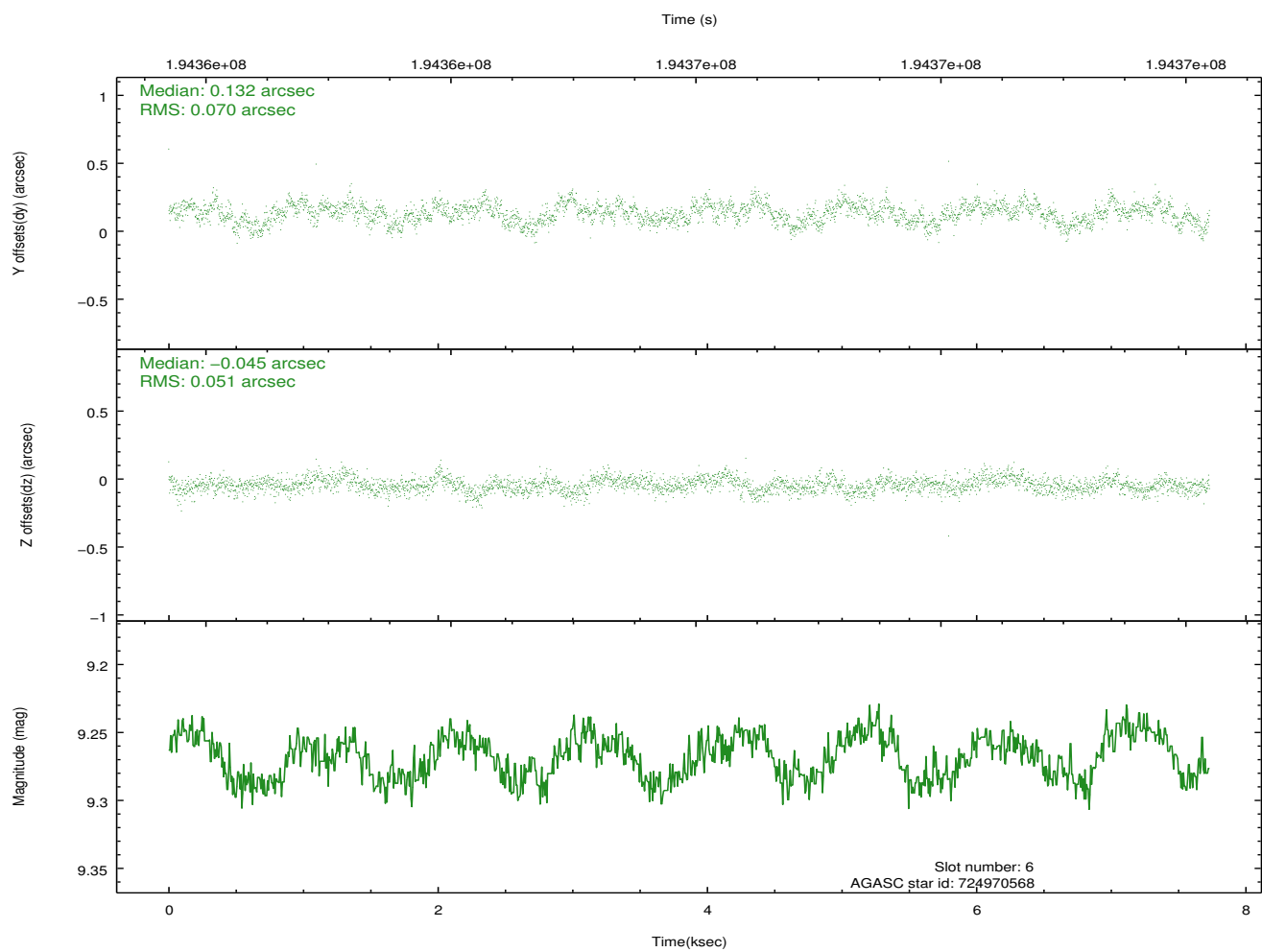
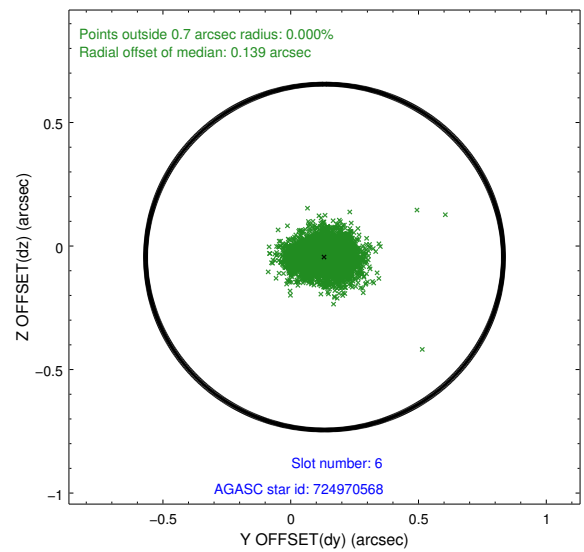
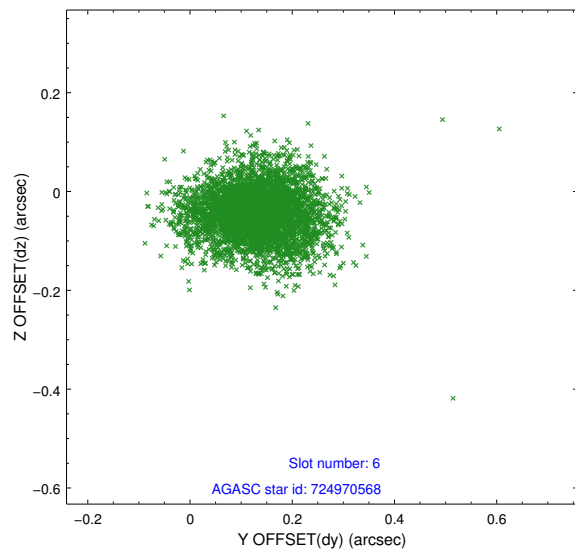
### 2.4.2 Slot 4



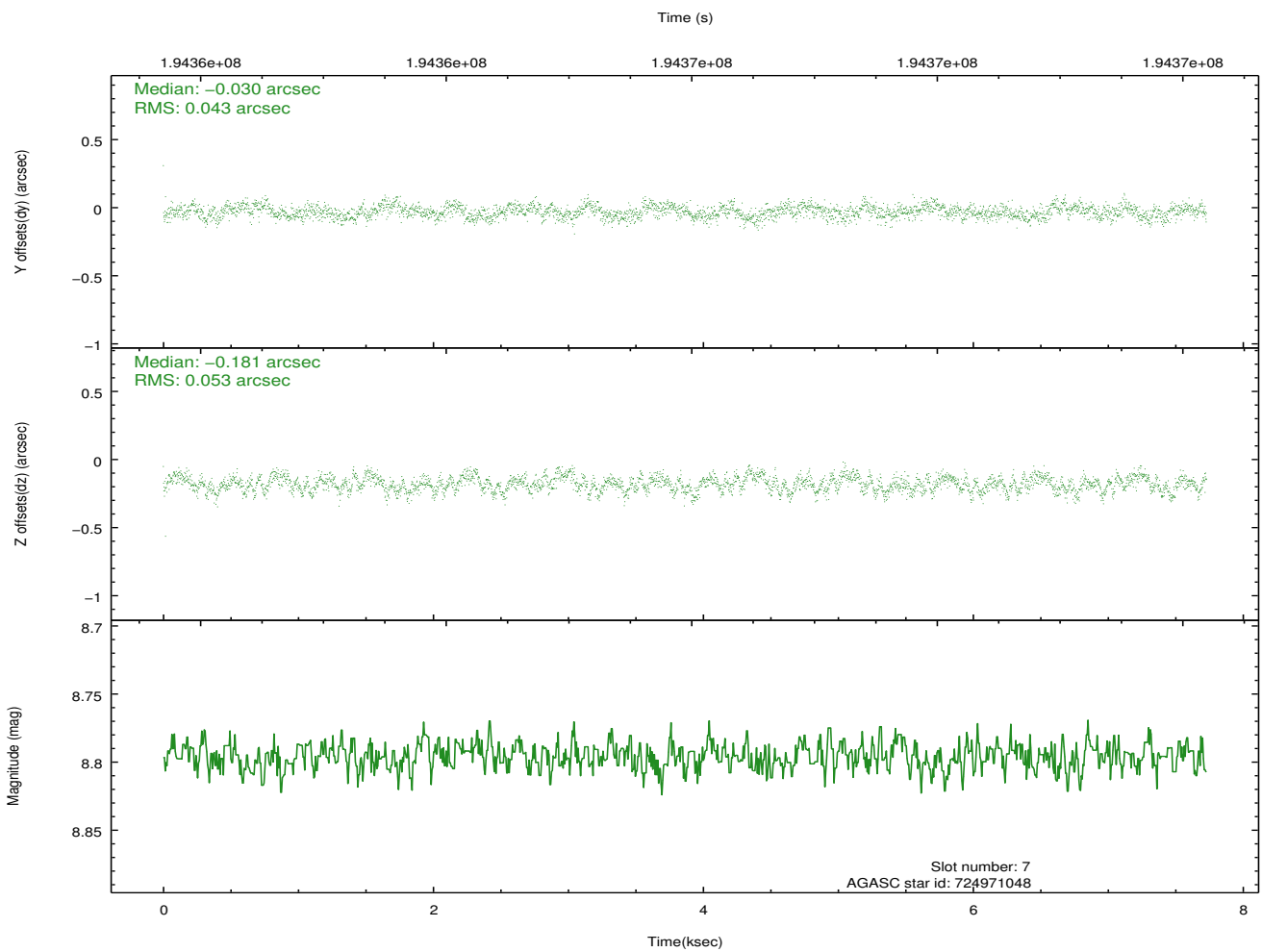
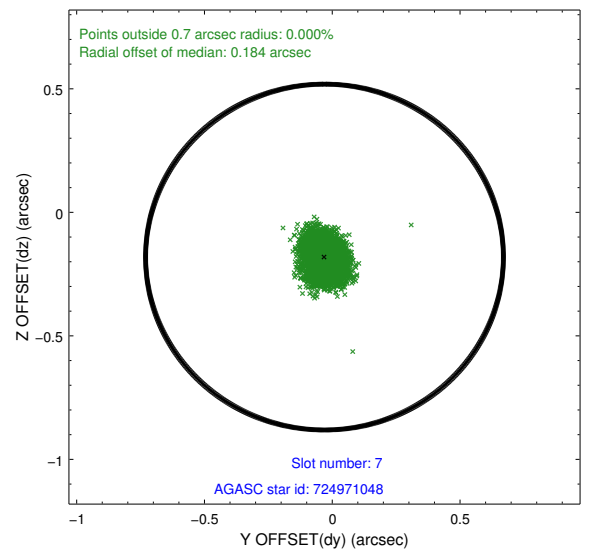
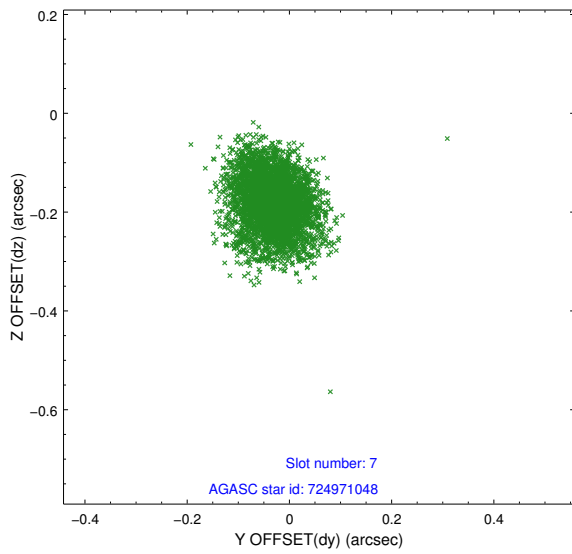
### 2.4.3 Slot 5



## 2.4.4 Slot 6

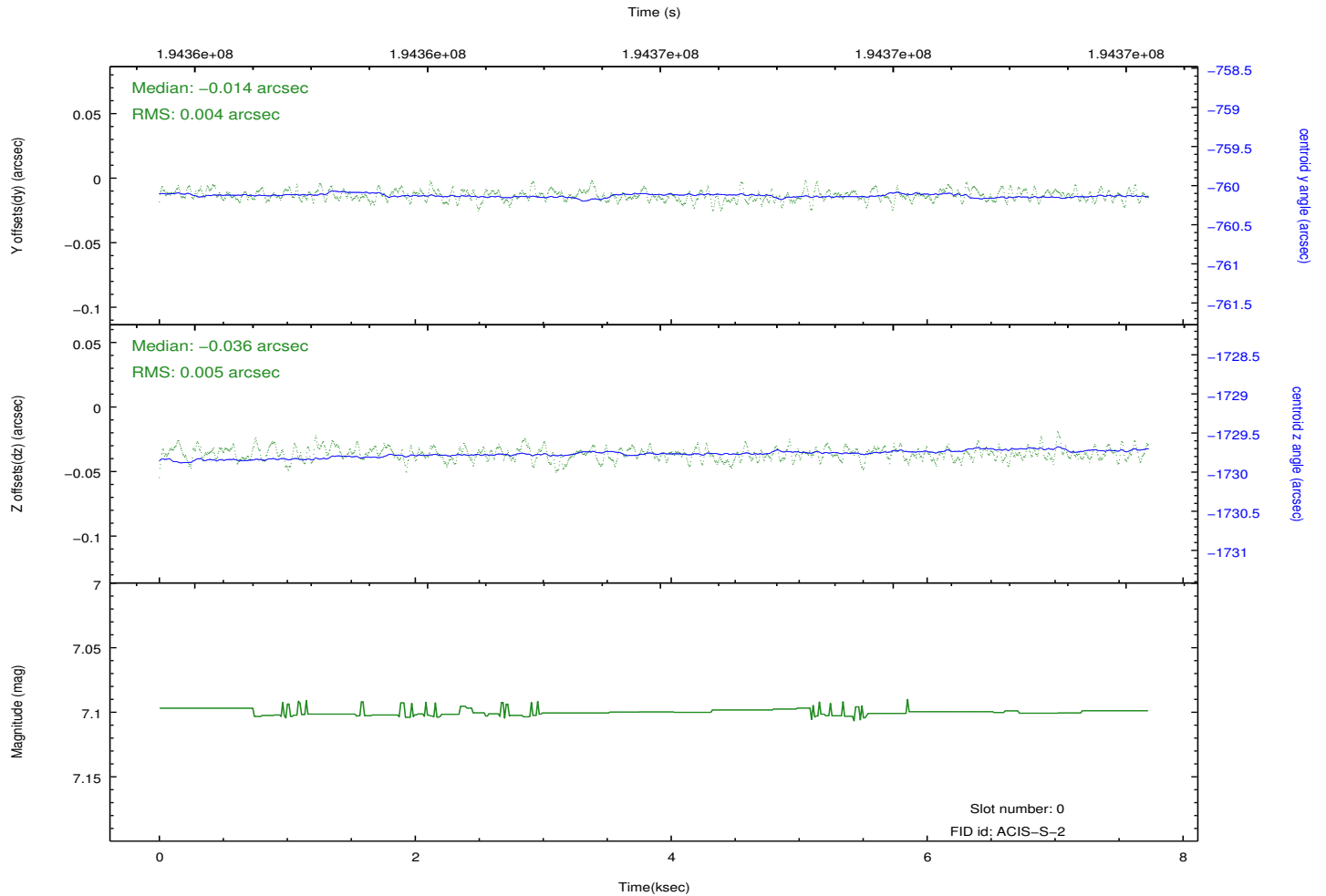
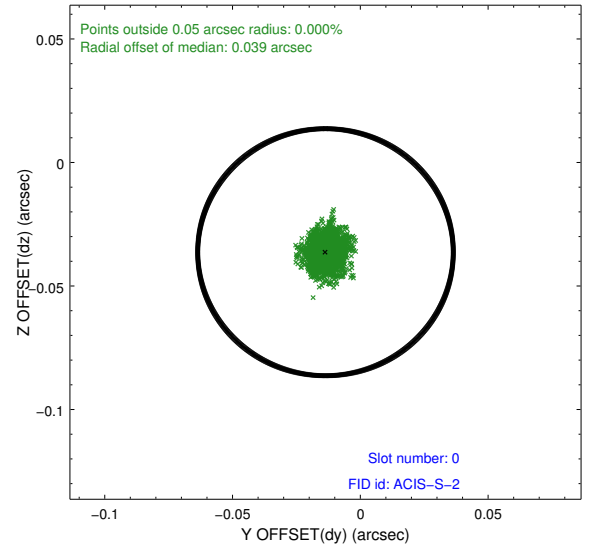
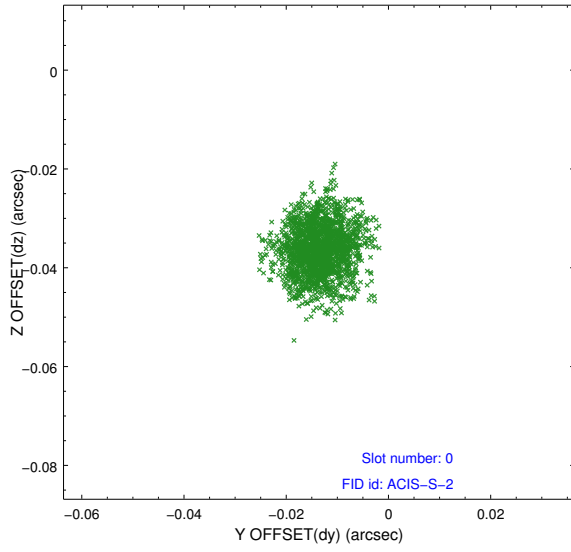


## 2.4.5 Slot 7

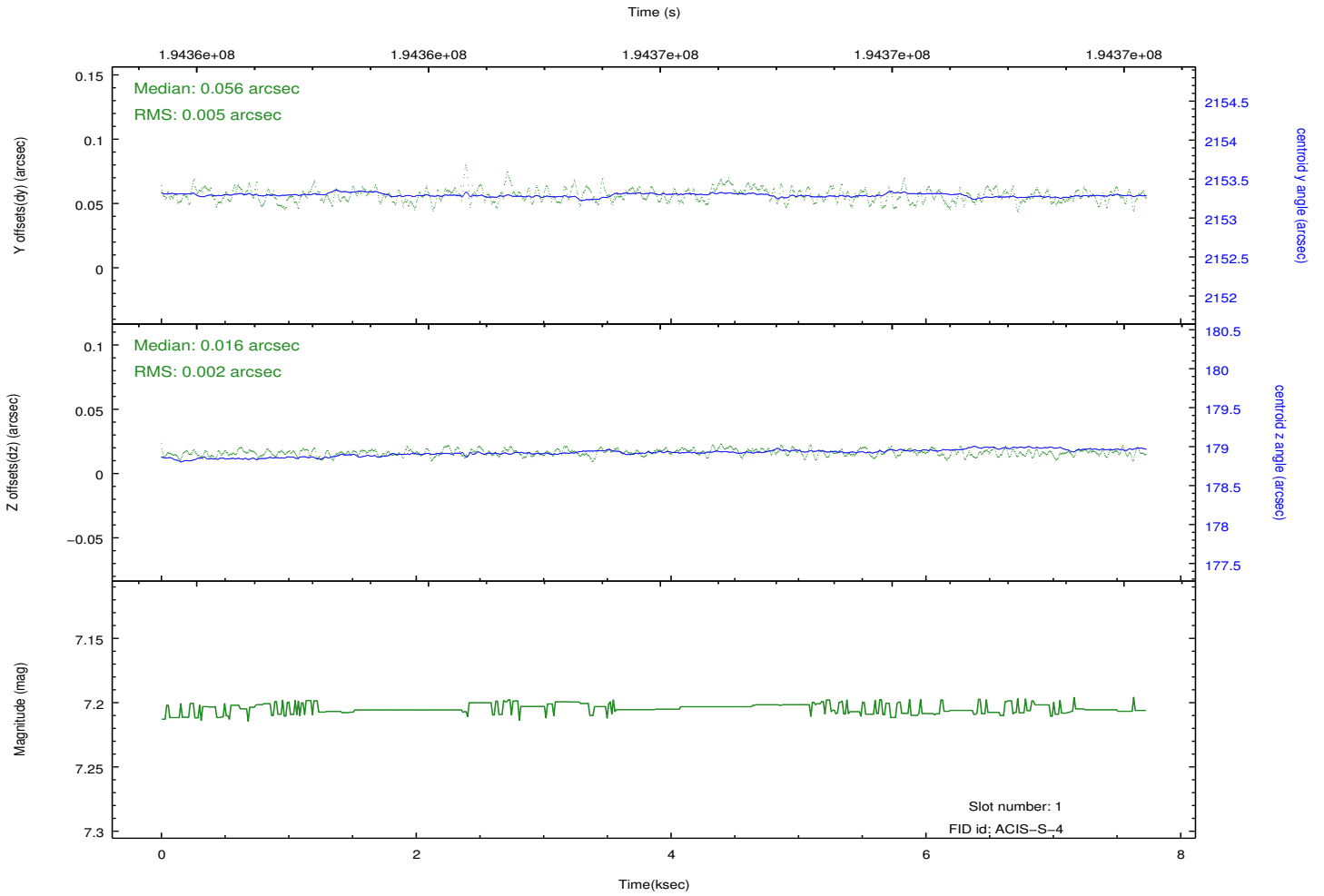
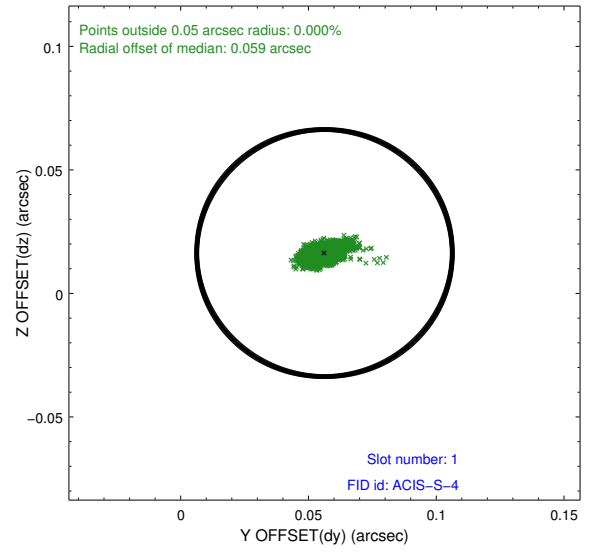
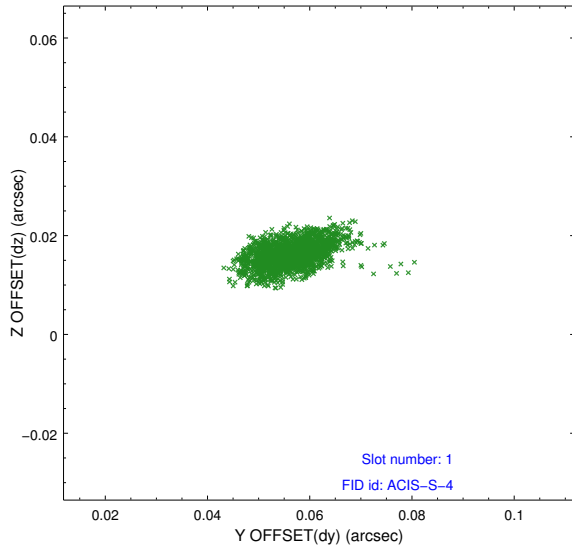


## 2.5 FID Slots

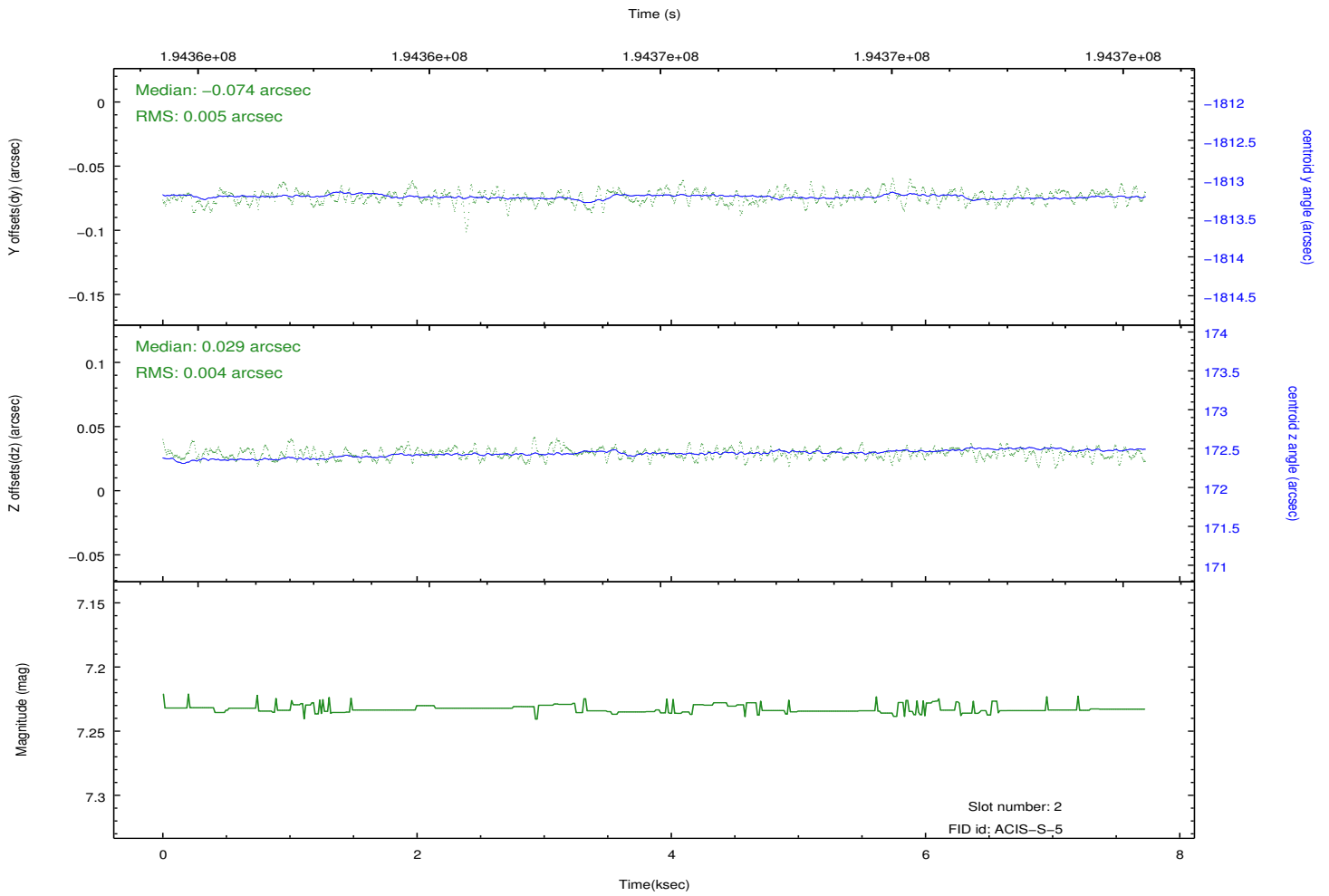
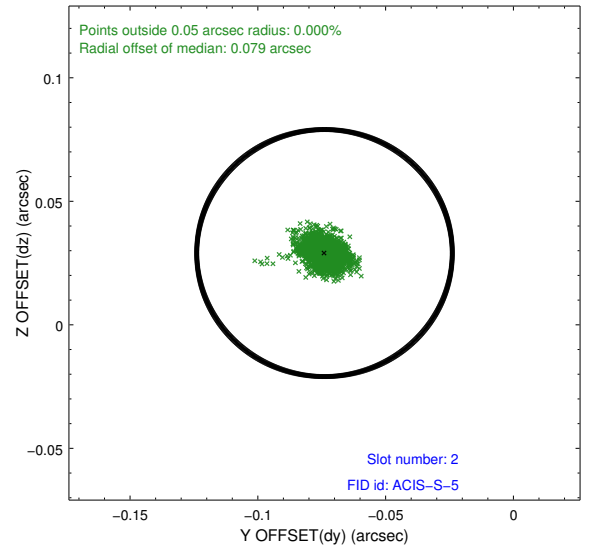
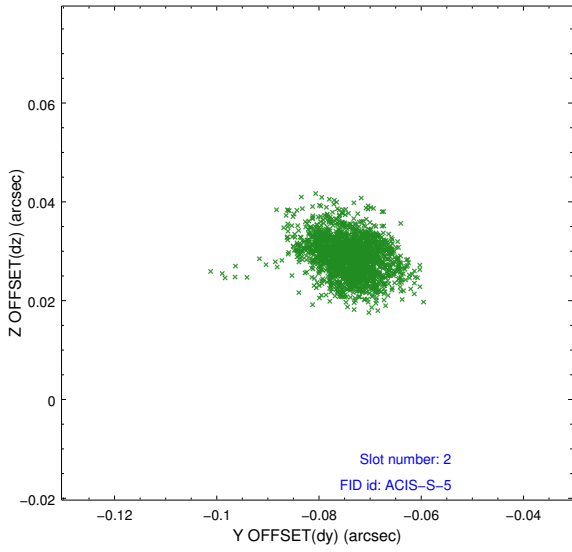
### 2.5.1 Slot 0



## 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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.959

## A.2 Comments