

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1831 - L2 Version 4  
Chandra X-Ray Center

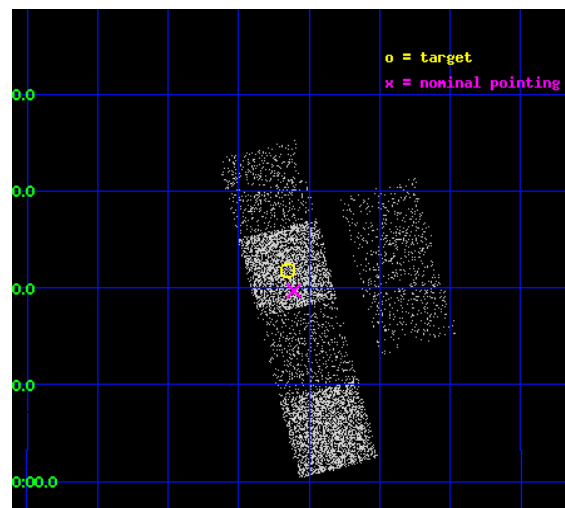
L2 Processing Date : Aug 31 2012

## 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

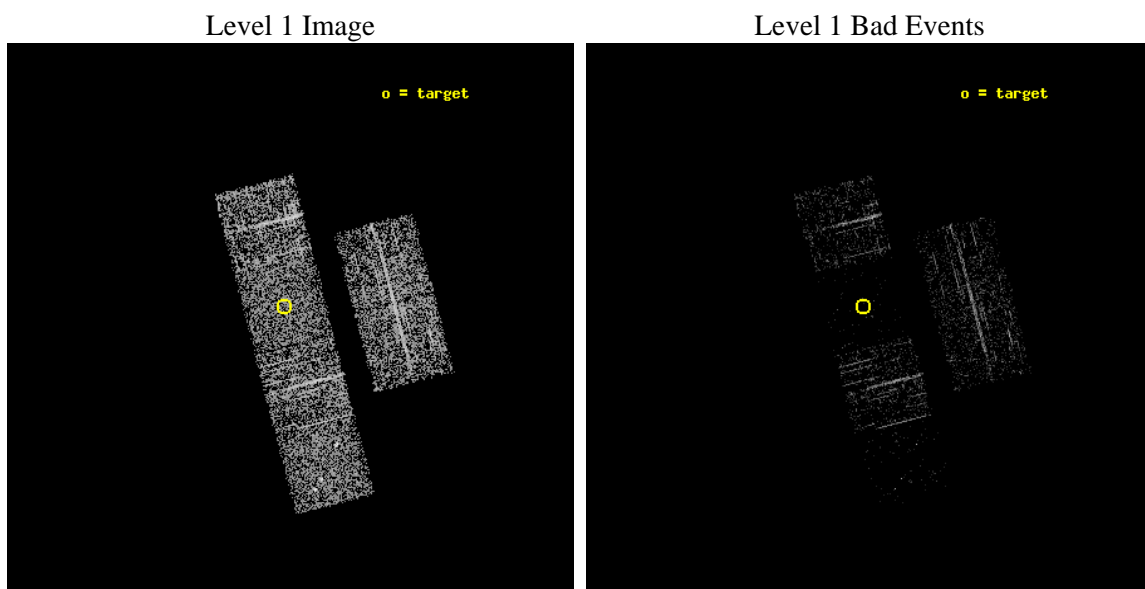
seq_num	100018	Sequence number
obs_id	1831	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.66311	Observer's specified target RA [deg]
dec_targ	10.36439	Observer's specified target Dec [deg]
ra_nom	182.65197843929	Nominal RA [deg]
dec_nom	10.328377349826	Nominal Dec [deg]
roll_nom	255.53373755982	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1190.4000010937	Sum of GTIs [s]
livetime	1175.3264395071	Livetime [s]
ontime2	1190.4000010937	Sum of GTIs [s]
ontime3	1190.4000010937	Sum of GTIs [s]
ontime5	1190.4000010937	Sum of GTIs [s]
ontime6	1190.4000010937	Sum of GTIs [s]
ontime7	1190.4000010937	Sum of GTIs [s]
ontime8	1190.4000010937	Sum of GTIs [s]
l2events	7849	Number of level 2 events



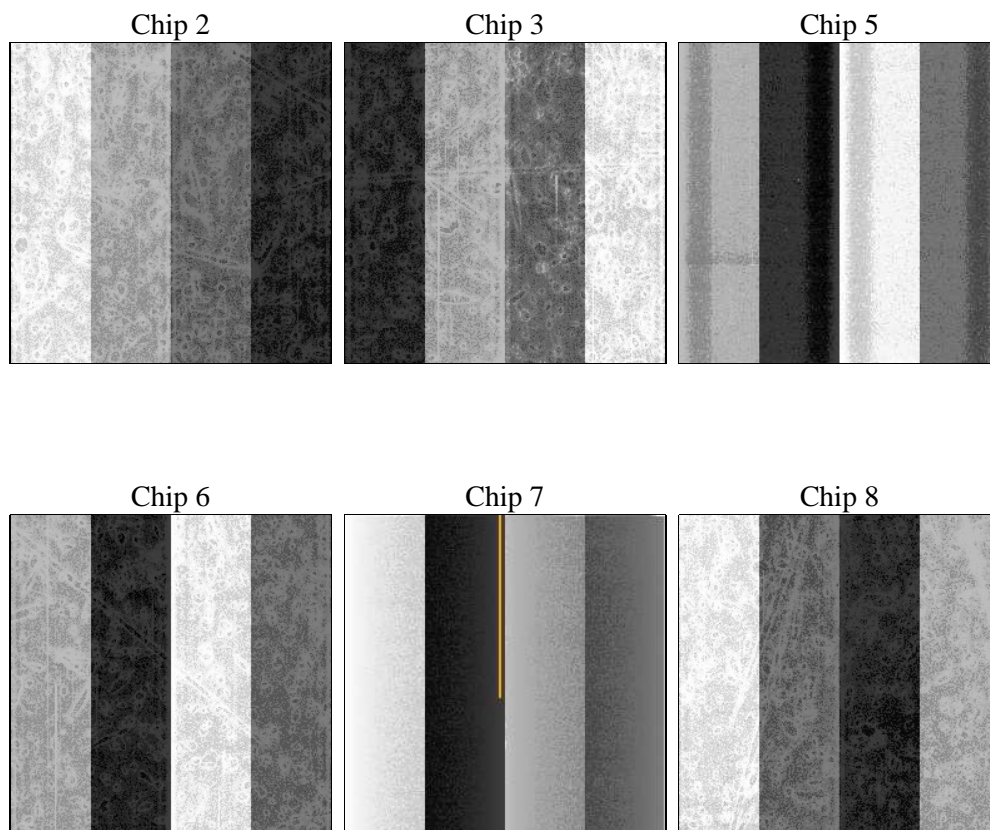
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1270.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1190.4000010937	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	1190.4000010937	Sum of GTIs [s]
date	2012-08-31T12:07:59	Date and time of file creation	ontime3	1190.4000010937	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1190.4000010937	Sum of GTIs [s]
			ontime6	1190.4000010937	Sum of GTIs [s]
			ontime7	1190.4000010937	Sum of GTIs [s]
			ontime8	1190.4000010937	Sum of GTIs [s]
			l1events	32263	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5757	5520	4304	6157	3846	6679
rejected events	5272	5068	920	5524	684	5117
rejected %	91%	91%	21%	89%	17%	76%

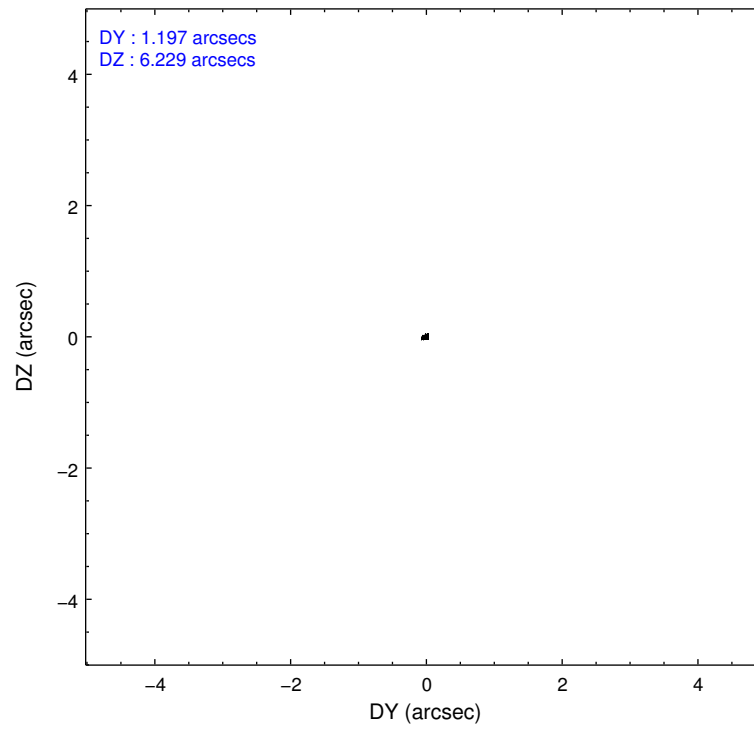
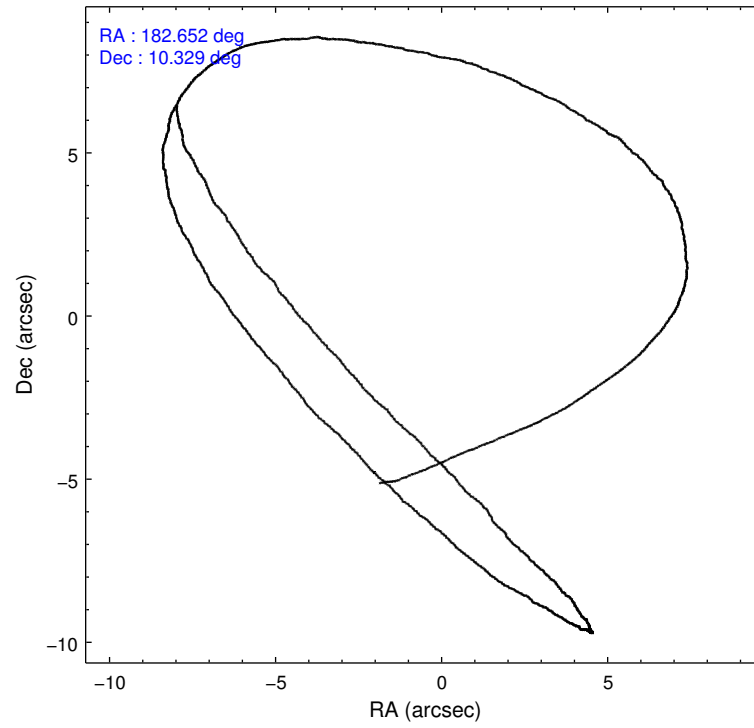
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	379	360	1709	515	1114	853
	6%	6%	39%	8%	28%	12%
grade 1 events	4	2	14	2	3	4
	0%	0%	0%	0%	0%	0%
grade 2 events	77	48	1113	72	1007	309
	1%	0%	25%	1%	26%	4%
grade 3 events	51	30	354	49	463	207
	0%	0%	8%	0%	12%	3%
grade 4 events	45	35	339	49	419	187
	0%	0%	7%	0%	10%	2%
grade 5 events	6	5	84	7	36	28
	0%	0%	1%	0%	0%	0%
grade 6 events	31	22	465	37	696	352
	0%	0%	10%	0%	18%	5%
grade 7 events	5164	5018	226	5426	108	4739
	89%	90%	5%	88%	2%	70%

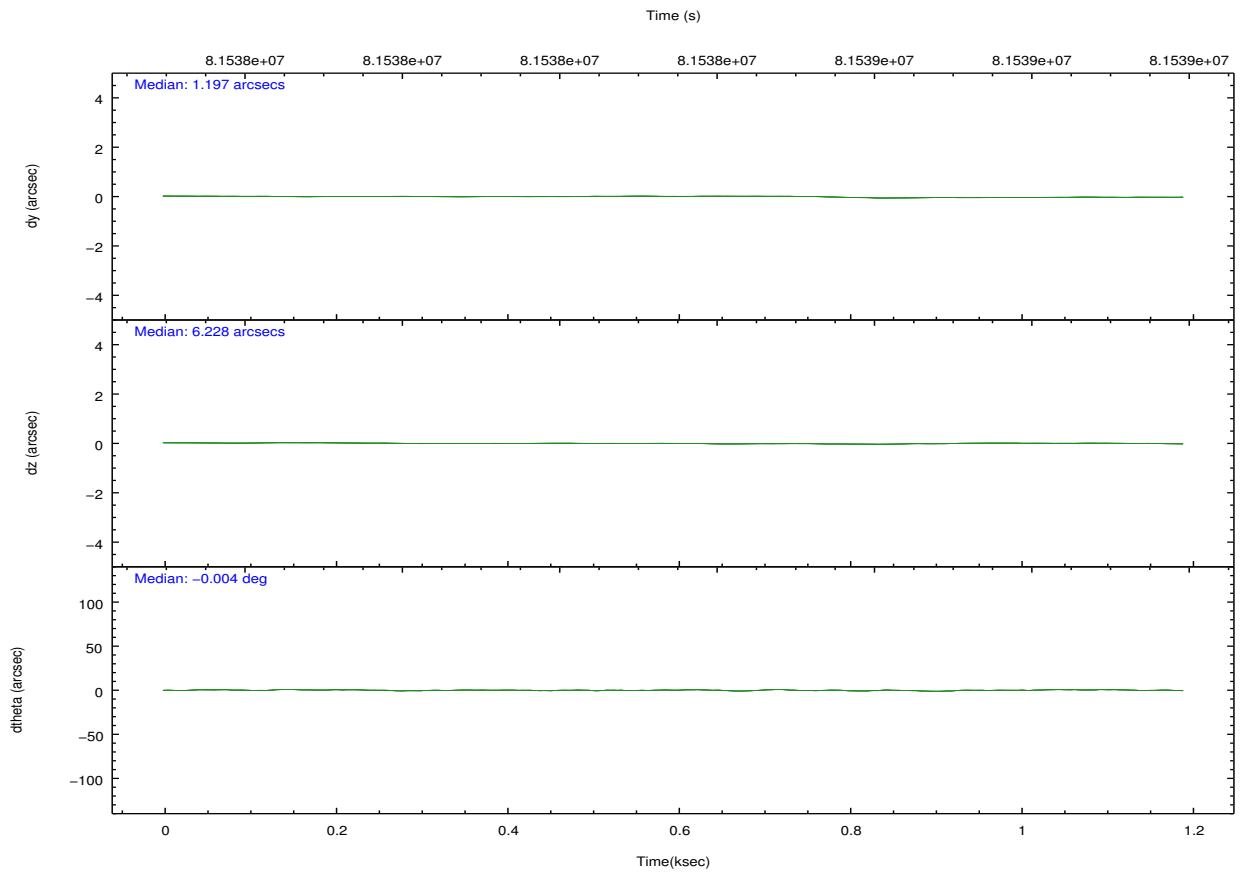
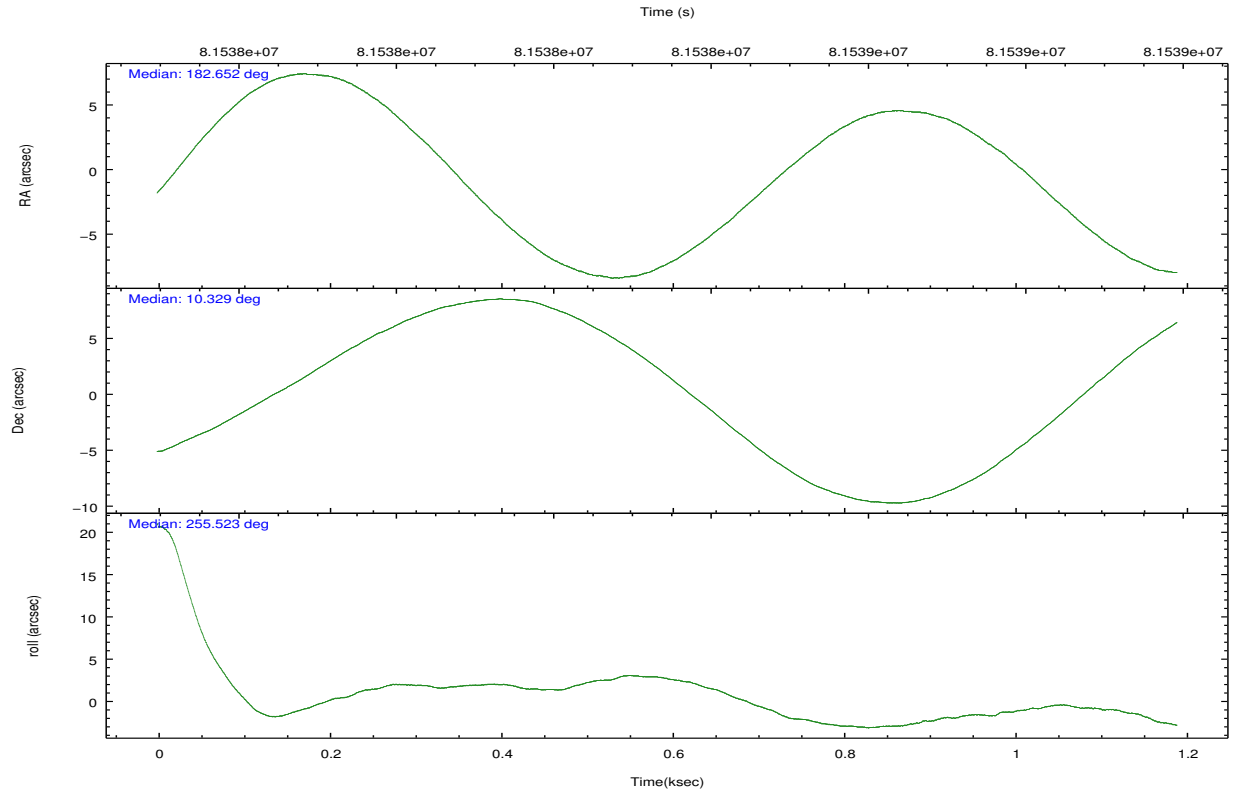
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	182.644107	182.6519784392907
[deg] Pointing Dec	10.354796	10.32837734982555
[deg] Pointing Roll	255.378456	255.5337375598154
[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)	81537670.184000	81537564.803727
Observation start date	2000-08-01T17:20:06	2000-08-01T17:19:24
[s] Observation end time (MET)	81538940.184000	81539074.628783
Observation end date	2000-08-01T17:41:16	2000-08-01T17:44:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





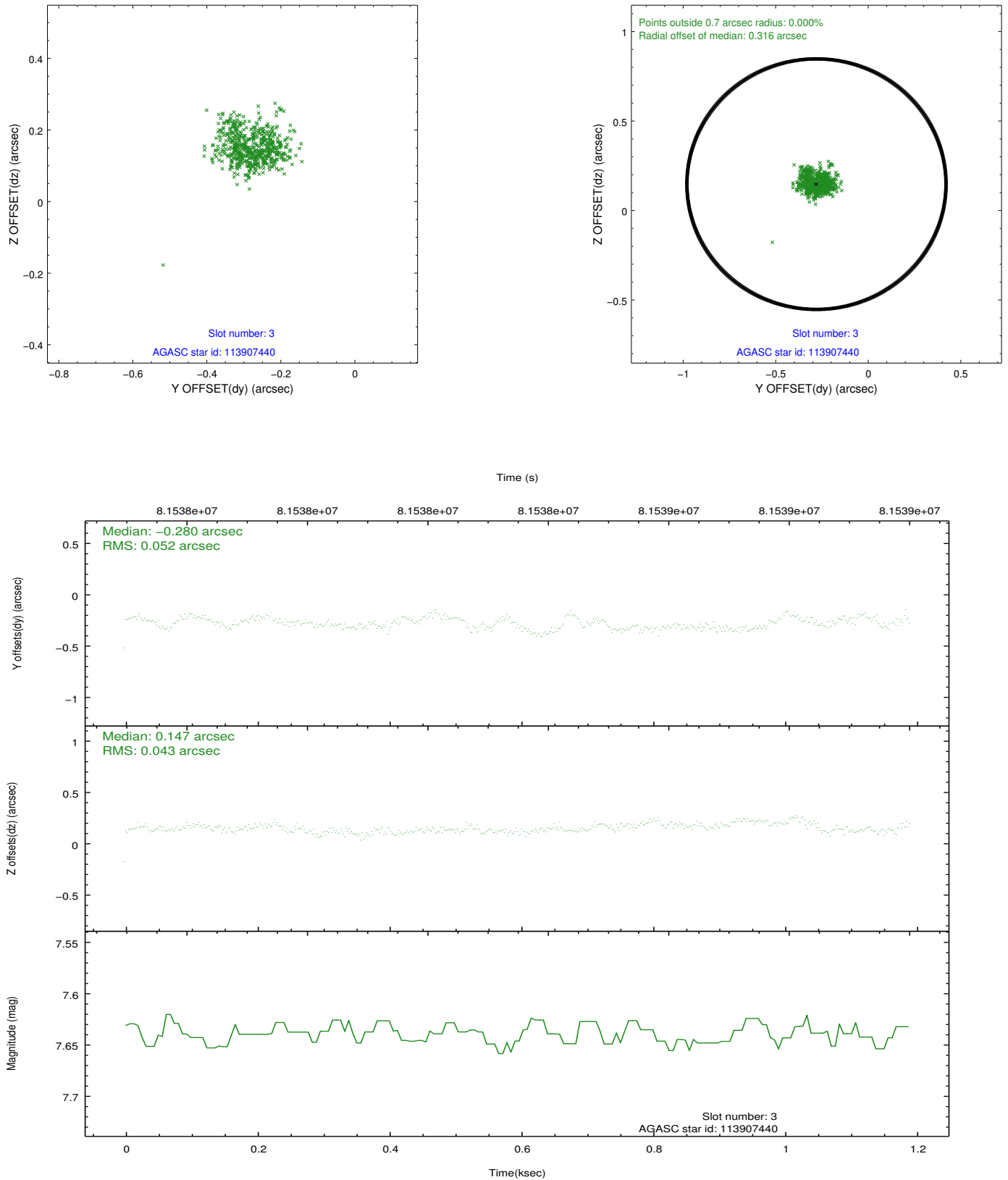
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	291	-0.044	-0.004	0.006	0.013	0.000000	0.000000	-753.82	-1727.33
1	FID	ACIS-S-4	7.21	291	0.008	0.023	0.005	0.012	0.000000	0.000000	2156.98	175.42
2	FID	ACIS-S-5	7.23	291	0.005	-0.010	0.006	0.010	0.000000	0.000000	-1799.41	175.40
3	GUIDE	113907440	7.64	582	-0.280	0.147	0.072	0.113	183.304663	10.821652	-2217.61	1833.34
4	GUIDE	113906616	7.94	582	-0.023	-0.015	0.114	0.170	183.239714	10.037718	566.56	2332.29
5	GUIDE	113909952	9.84	581	0.082	-0.031	0.110	0.172	182.703120	10.082649	897.12	452.06
6	GUIDE	113905264	10.17	580	0.029	-0.093	0.126	0.206	182.445692	10.343633	218.75	-670.89
7	GUIDE	113511280	10.47	581	0.194	-0.006	0.146	0.248	182.700155	9.746408	2070.48	742.72

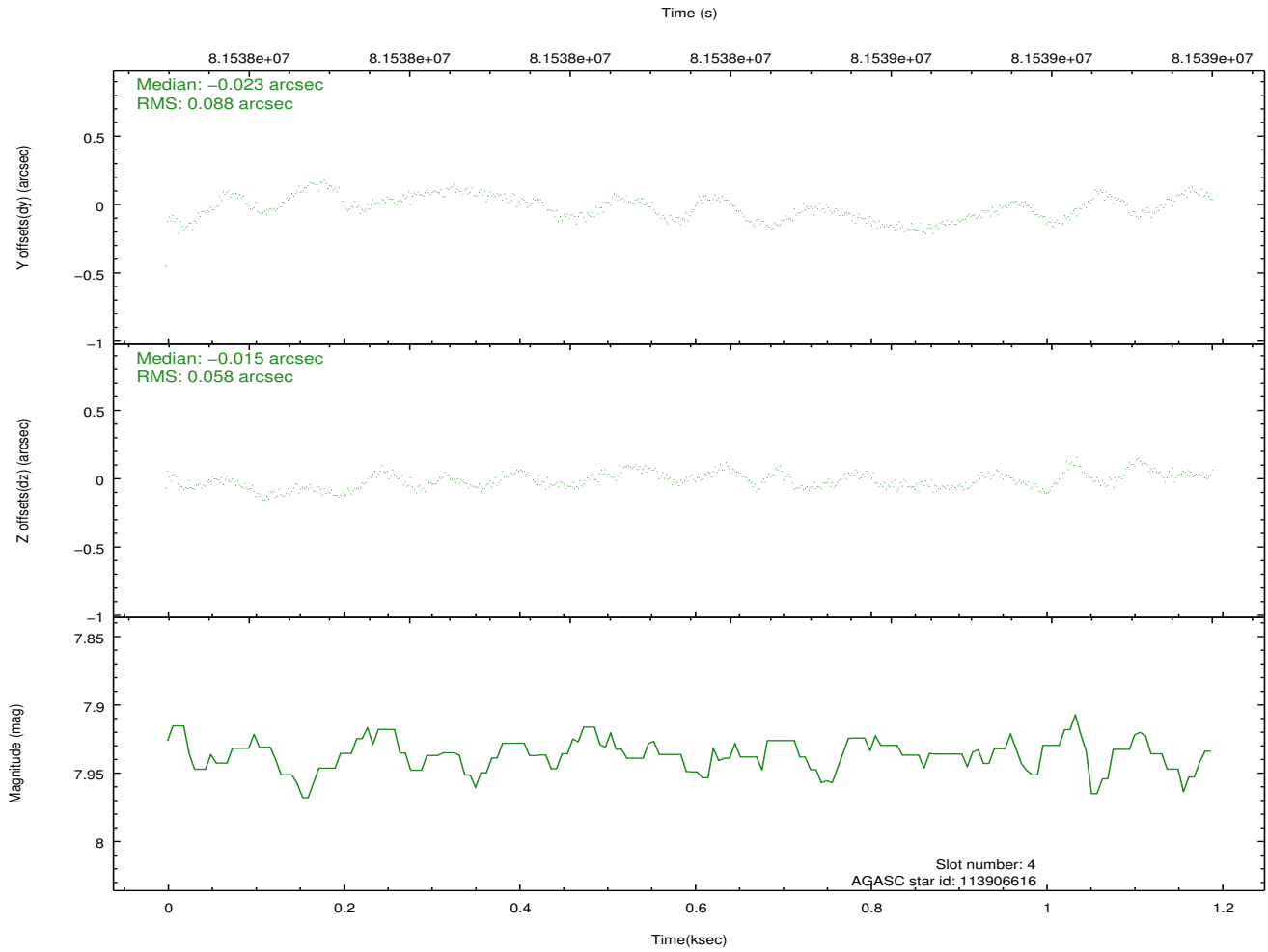
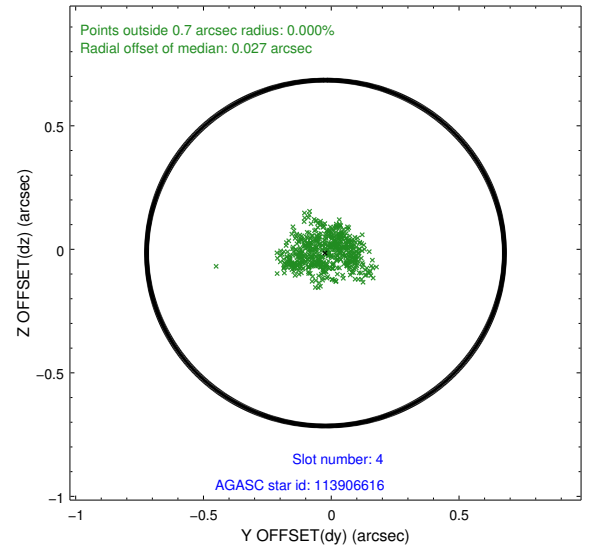
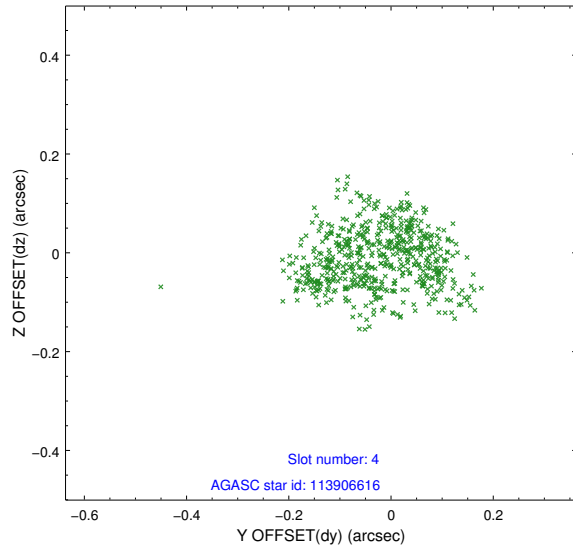


## 2.4 Star Slots

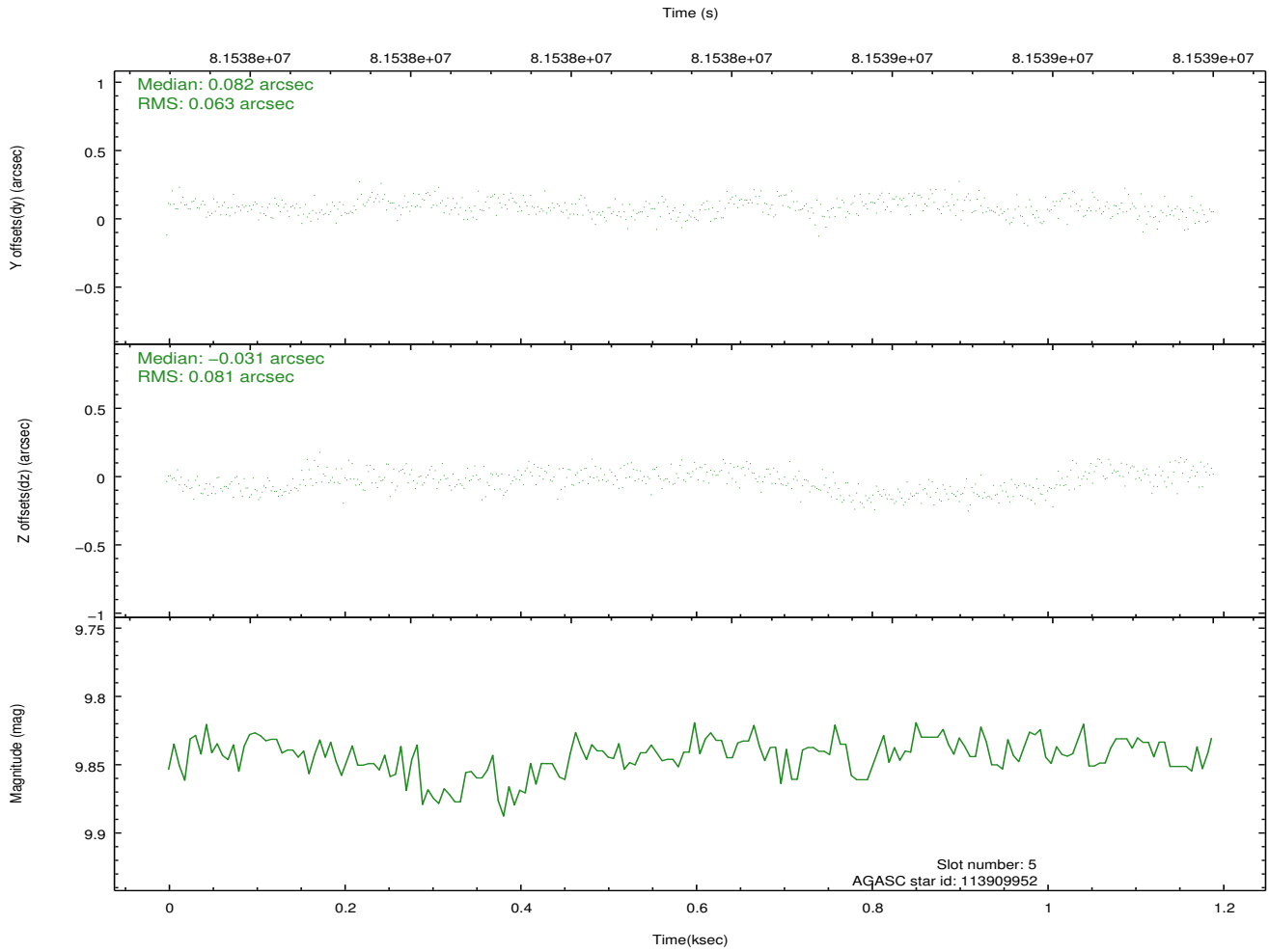
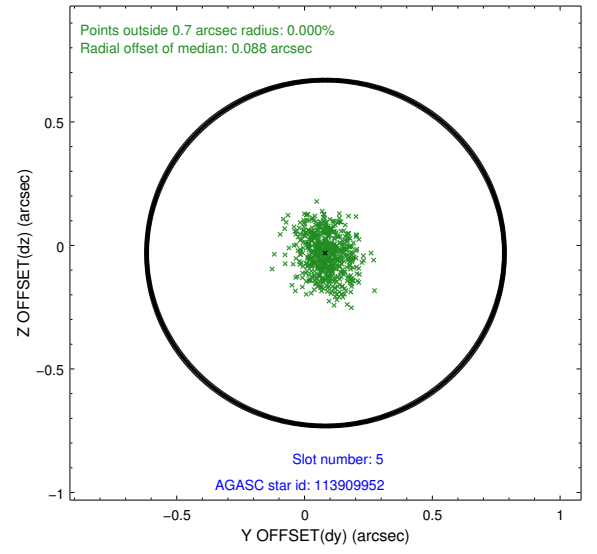
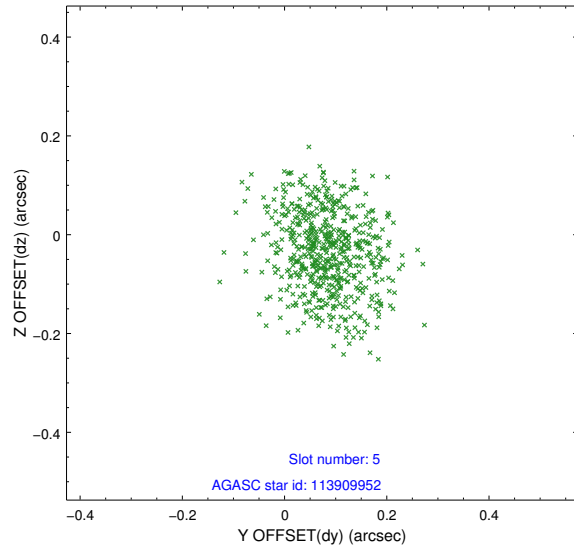
### 2.4.1 Slot 3



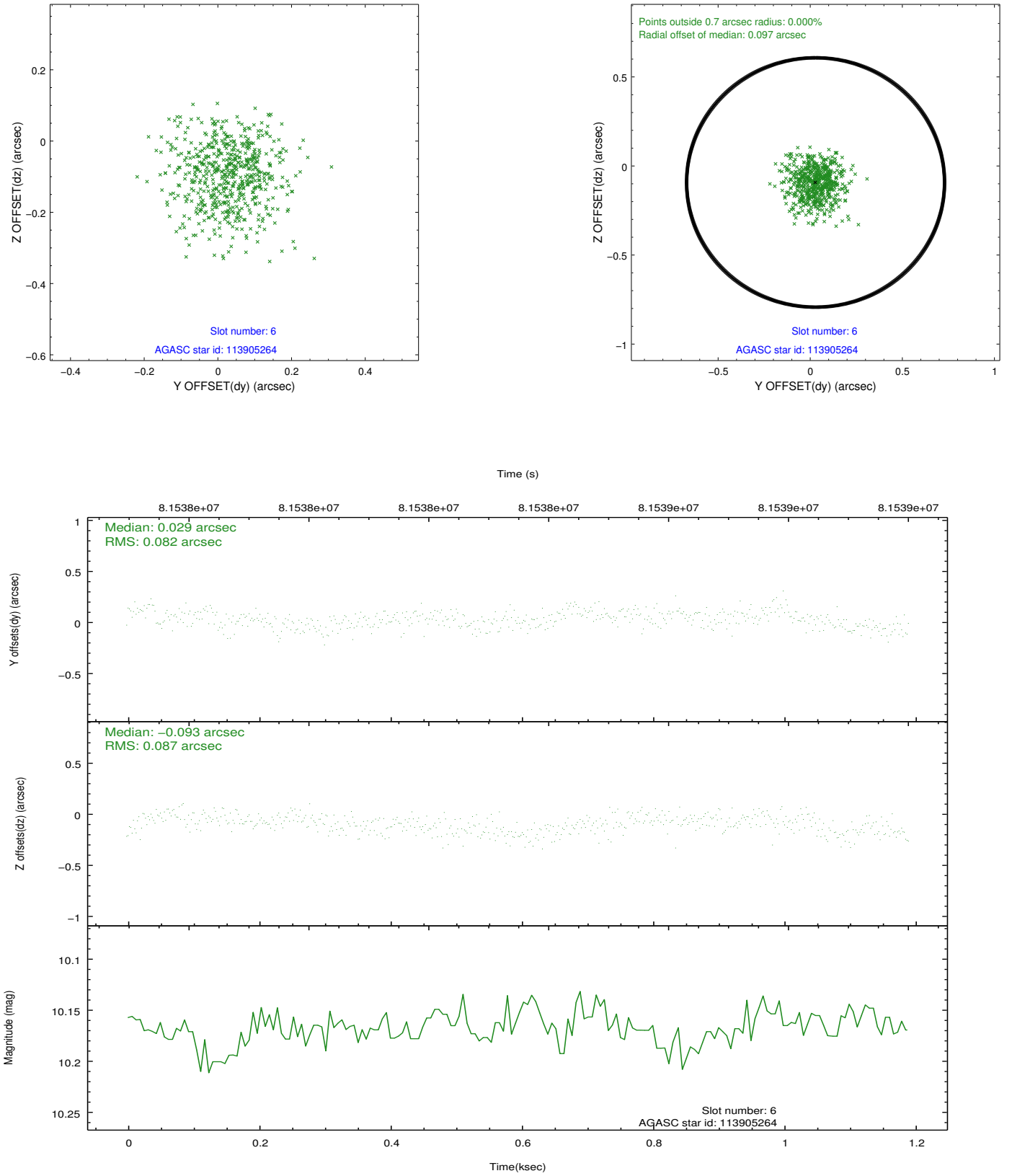
## 2.4.2 Slot 4



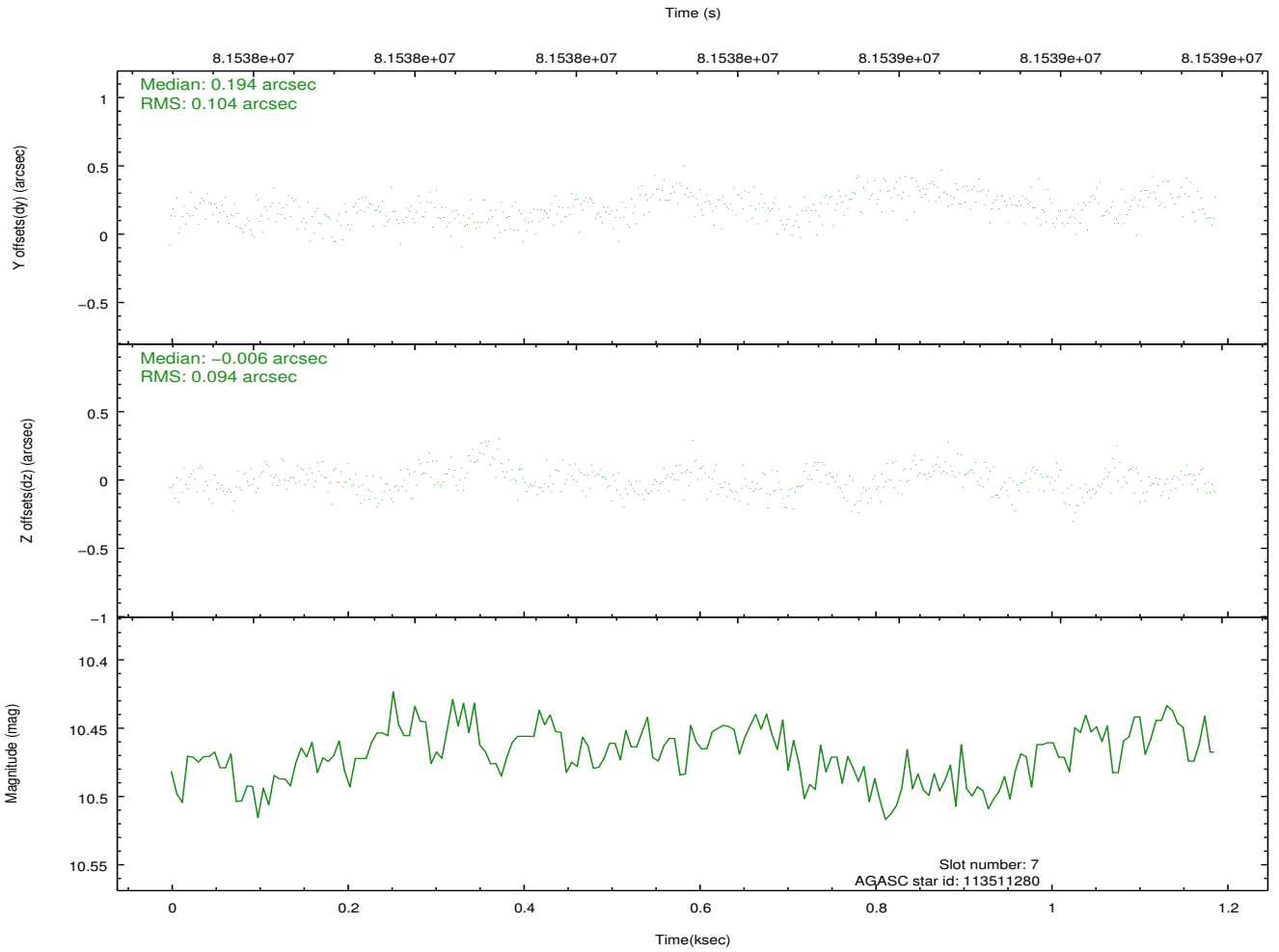
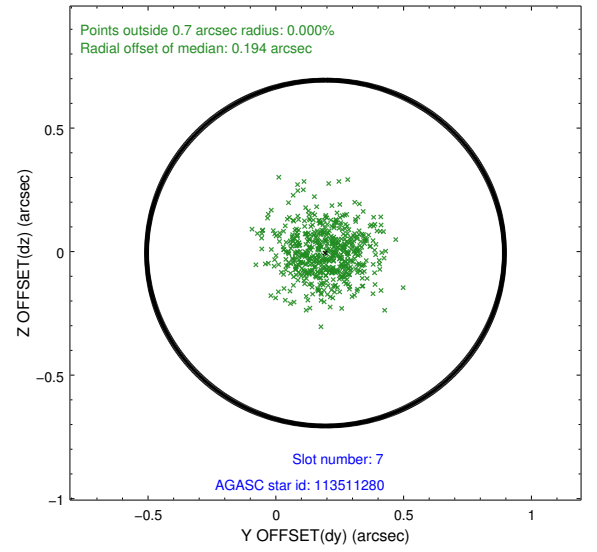
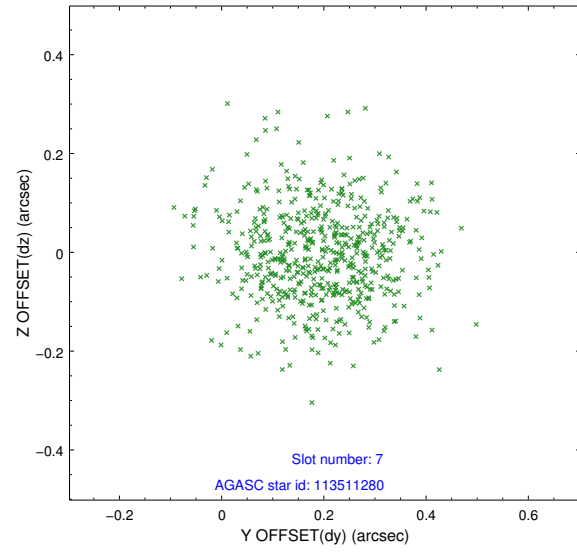
### 2.4.3 Slot 5



## 2.4.4 Slot 6

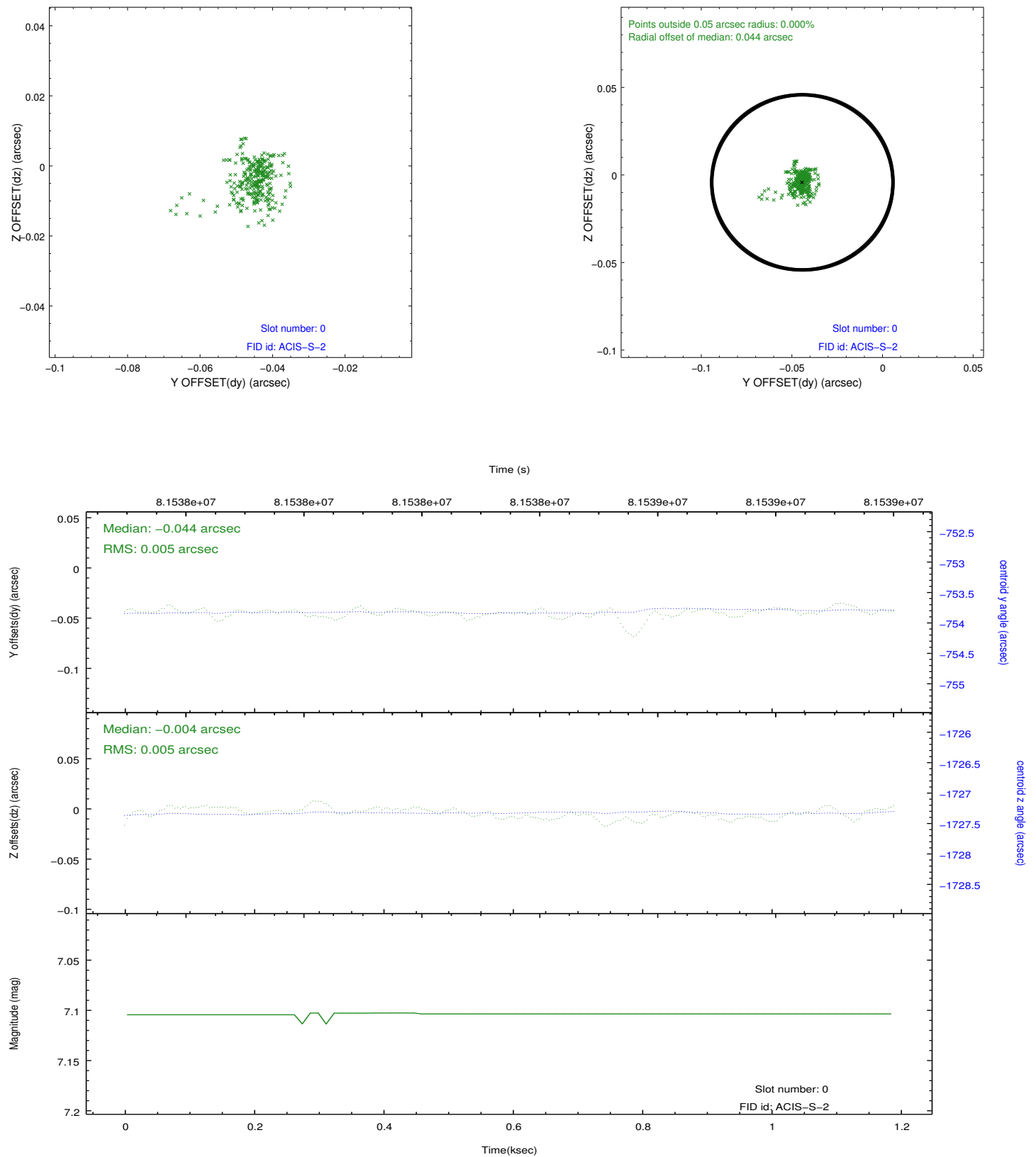


## 2.4.5 Slot 7

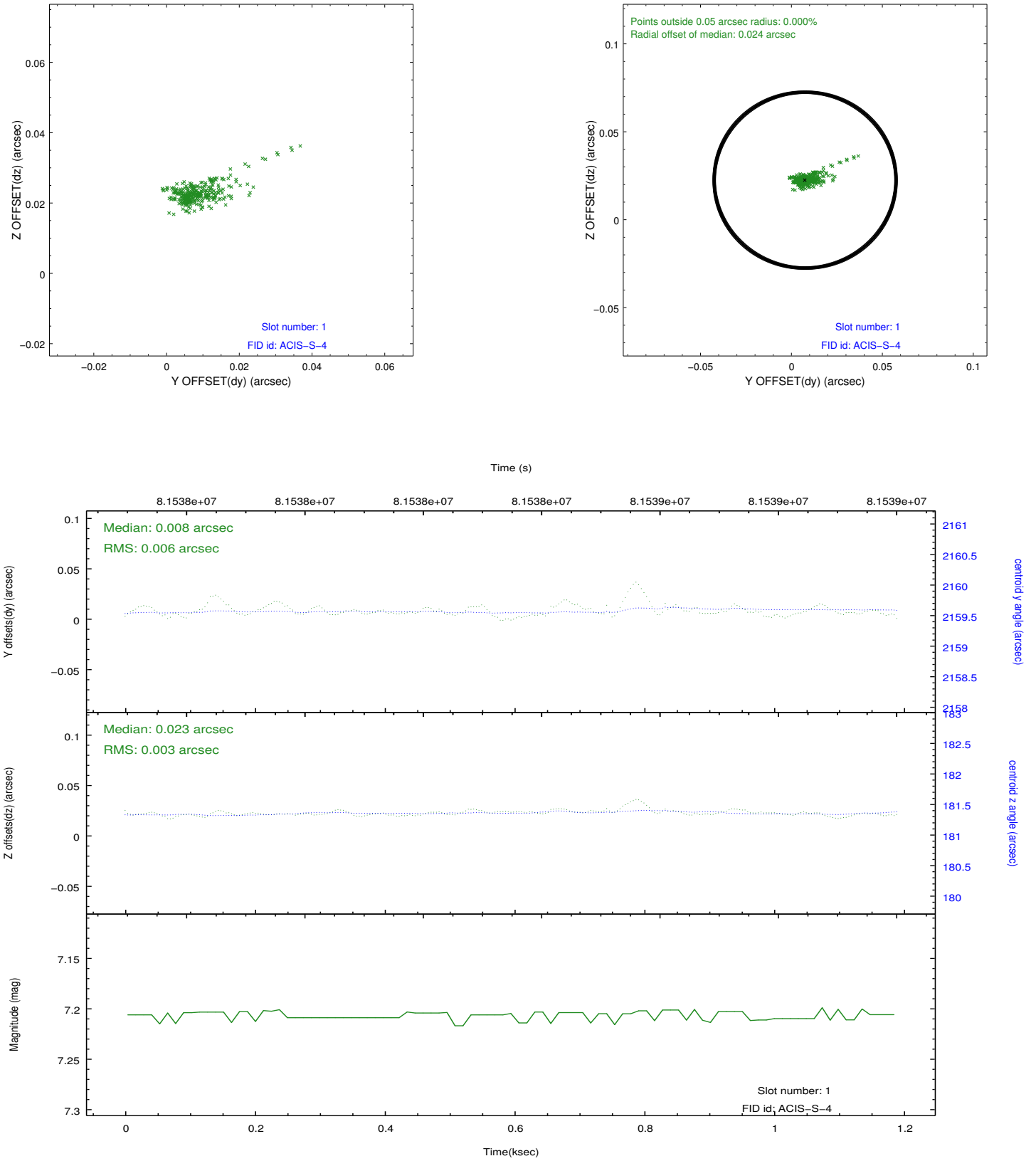


## 2.5 FID Slots

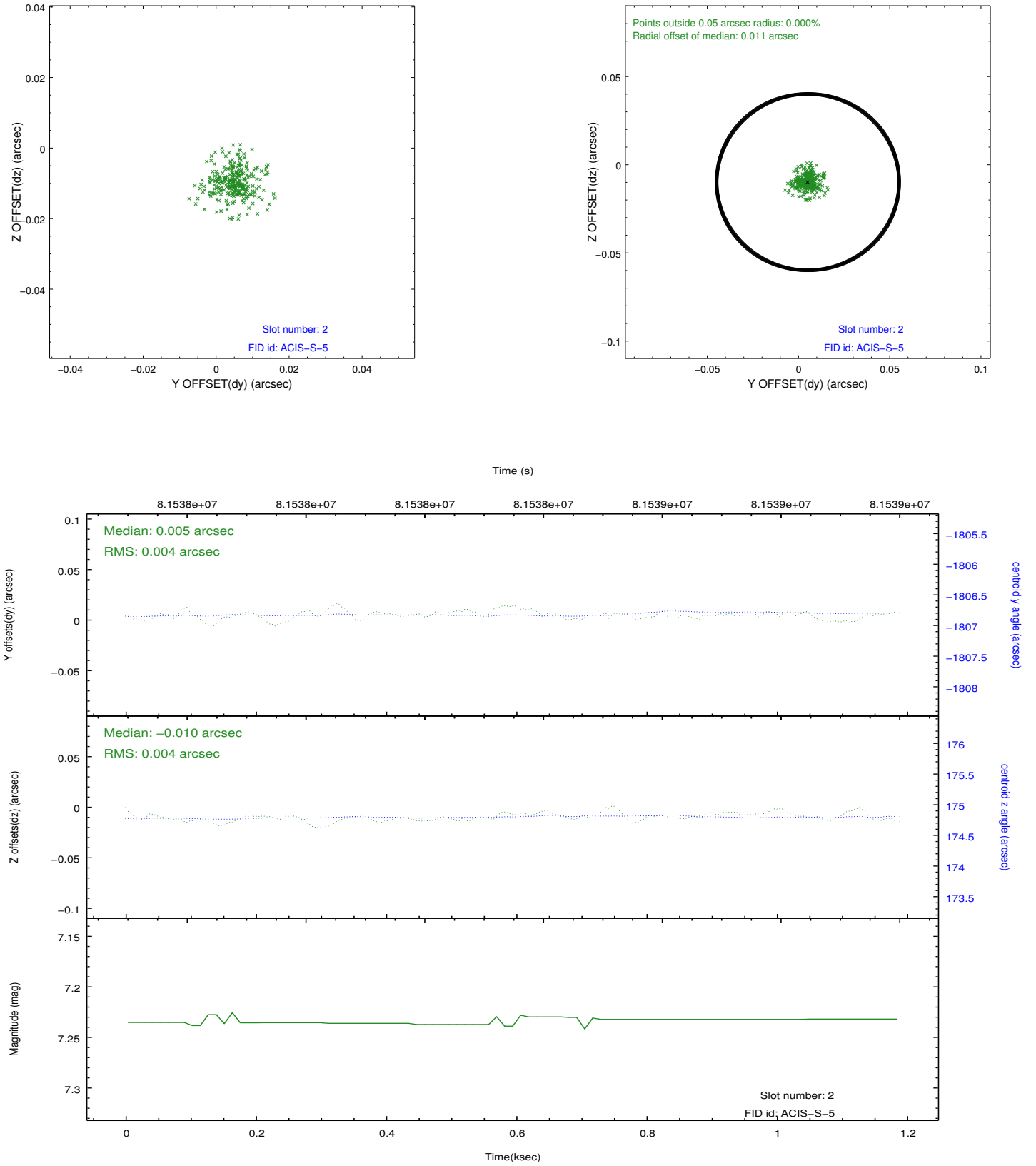
### 2.5.1 Slot 0



## 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)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

### A.2 Comments