

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1767 - L2 Version 4  
Chandra X-Ray Center

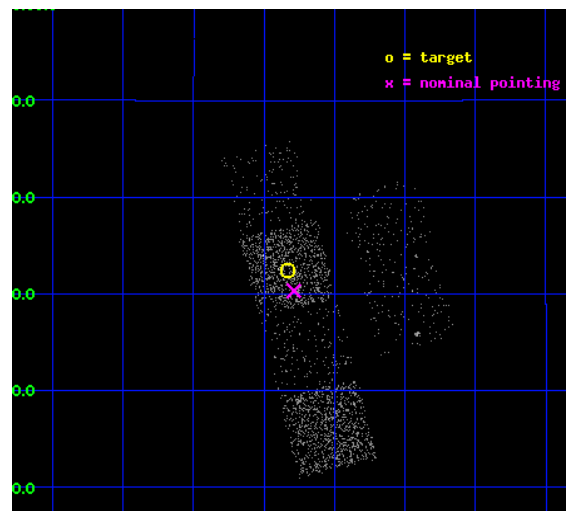
L2 Processing Date : Aug 31 2012

## 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

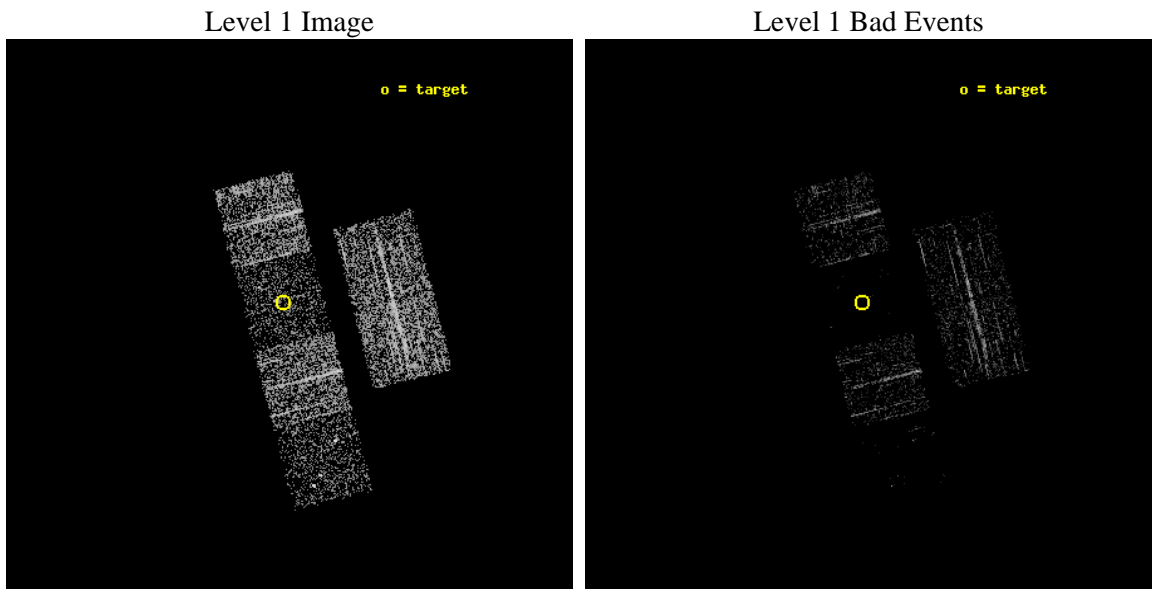
seq_num	100004	Sequence number
obs_id	1767	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.58361	Observer's specified target RA [deg]
dec_targ	10.54139	Observer's specified target Dec [deg]
ra_nom	182.57197070745	Nominal RA [deg]
dec_nom	10.505413452604	Nominal Dec [deg]
roll_nom	255.6603532343	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1196.8000010997	Sum of GTIs [s]
livetime	1181.6453988593	Livetime [s]
ontime2	1196.8000010997	Sum of GTIs [s]
ontime3	1196.8000010997	Sum of GTIs [s]
ontime5	1196.8000010997	Sum of GTIs [s]
ontime6	1196.8000010997	Sum of GTIs [s]
ontime7	1196.8000010997	Sum of GTIs [s]
ontime8	1196.8000010997	Sum of GTIs [s]
l2events	2826	Number of level 2 events



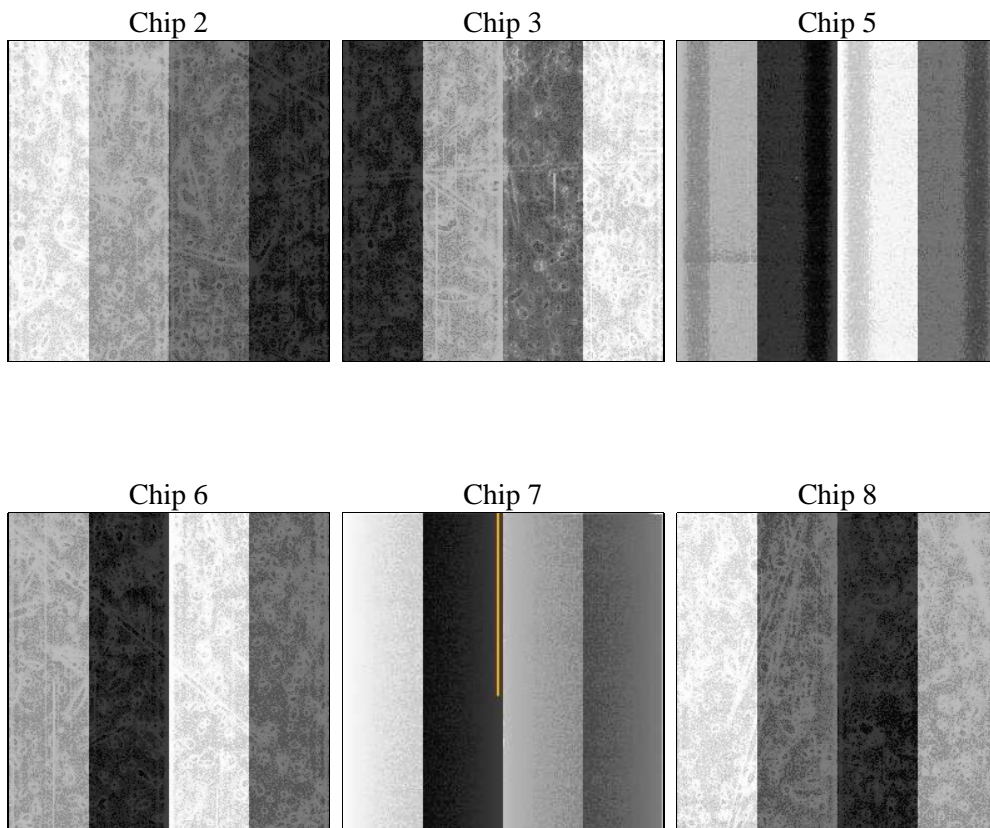
## 2 OBI

### 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	1196.8000010997	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	1196.8000010997	Sum of GTIs [s]
date	2012-08-31T12:06:36	Date and time of file creation	ontime3	1196.8000010997	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1196.8000010997	Sum of GTIs [s]
			ontime6	1196.8000010997	Sum of GTIs [s]
			ontime7	1196.8000010997	Sum of GTIs [s]
			ontime8	1196.8000010997	Sum of GTIs [s]
			l1events	26215	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6413	5140	1892	5290	1536	5944
rejected events	6188	4972	429	5067	296	5250
rejected %	96%	96%	22%	95%	19%	88%

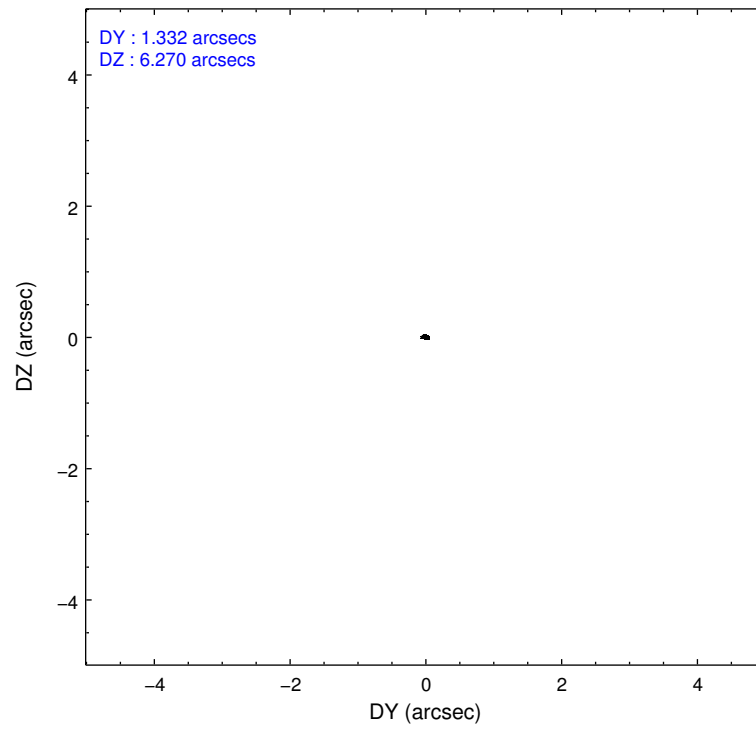
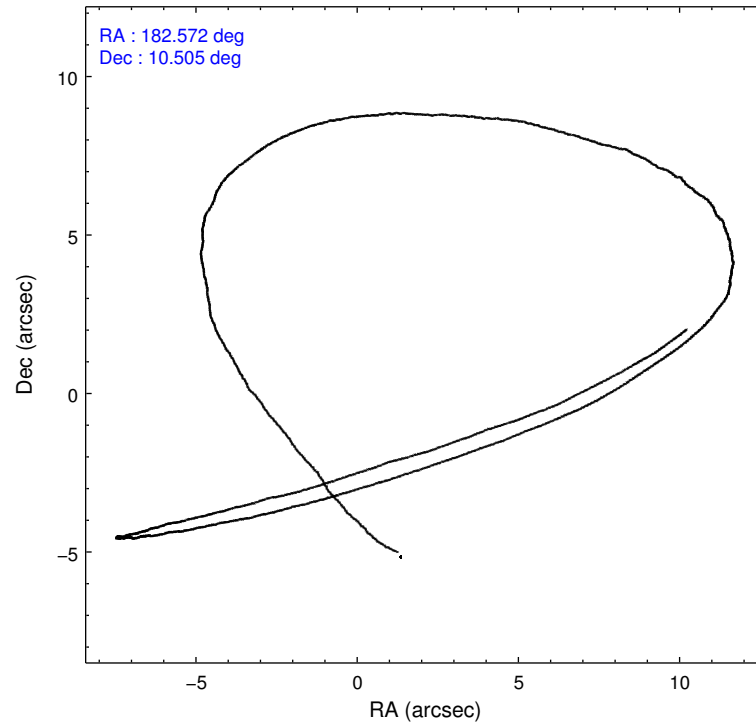
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	134	119	768	159	463	272
	2%	2%	40%	3%	30%	4%
grade 1 events	4	1	13	1	1	2
	0%	0%	0%	0%	0%	0%
grade 2 events	62	17	509	42	417	203
	0%	0%	26%	0%	27%	3%
grade 3 events	34	38	127	35	180	109
	0%	0%	6%	0%	11%	1%
grade 4 events	42	28	133	31	162	92
	0%	0%	7%	0%	10%	1%
grade 5 events	11	3	32	0	16	16
	0%	0%	1%	0%	1%	0%
grade 6 events	29	14	181	11	222	205
	0%	0%	9%	0%	14%	3%
grade 7 events	6097	4920	129	5011	75	5045
	95%	95%	6%	94%	4%	84%

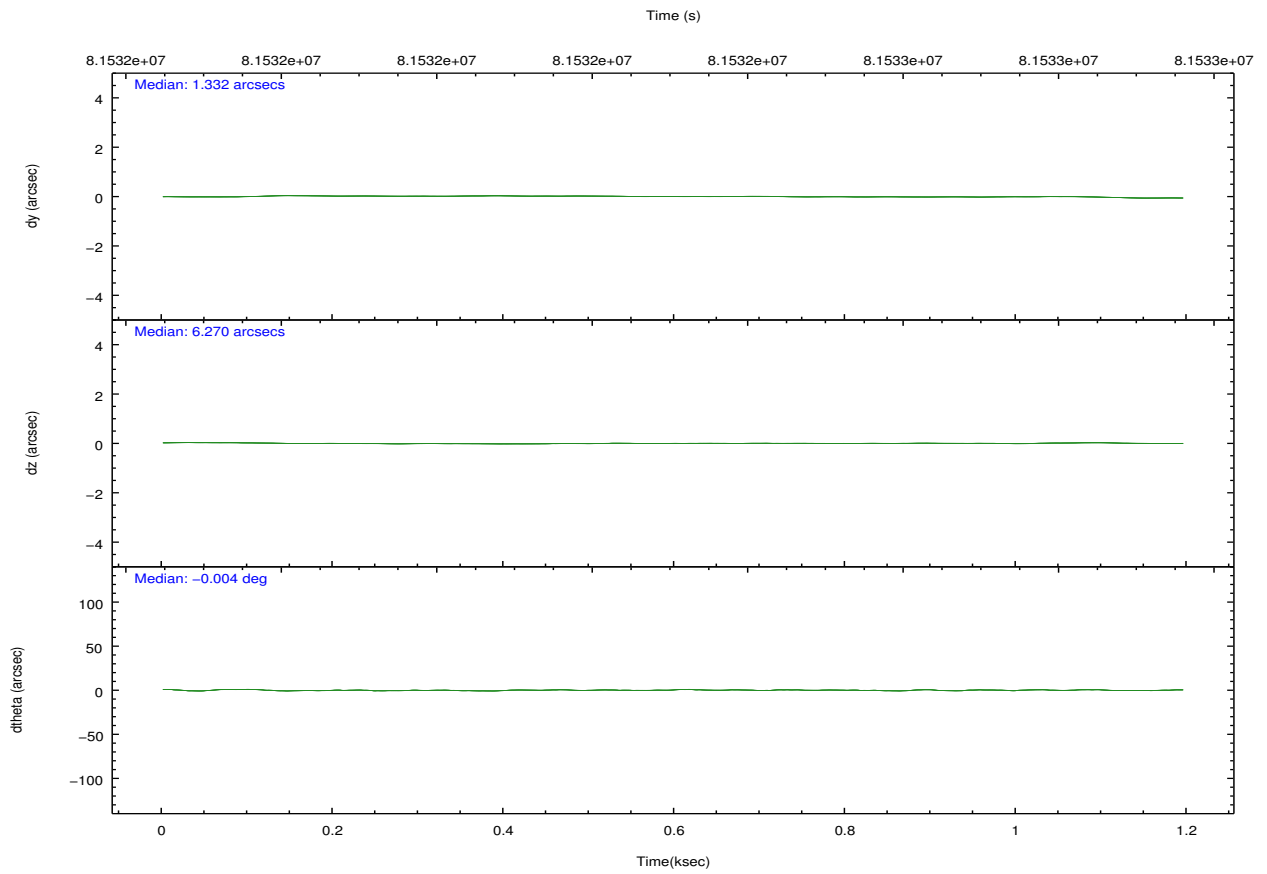
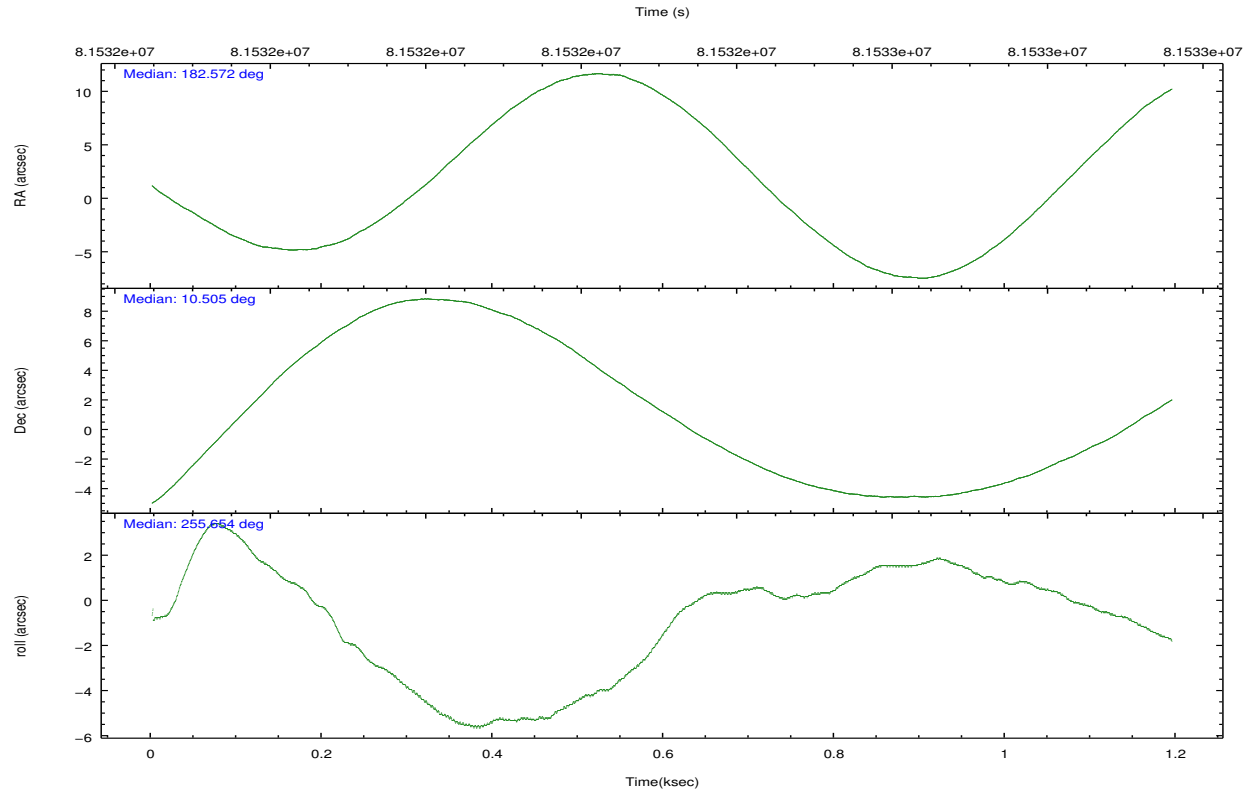
## 2.2 Compared Parameters

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	182.564609	182.5719707074512
[deg] Pointing Dec	10.531757	10.50541345260373
[deg] Pointing Roll	255.505101	255.6603532343046
[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)	81531630.184000	81531524.47850201
Observation start date	2000-08-01T15:39:26	2000-08-01T15:38:44
[s] Observation end time (MET)	81532900.184000	81533034.30355801
Observation end date	2000-08-01T16:00:36	2000-08-01T16:03:54
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





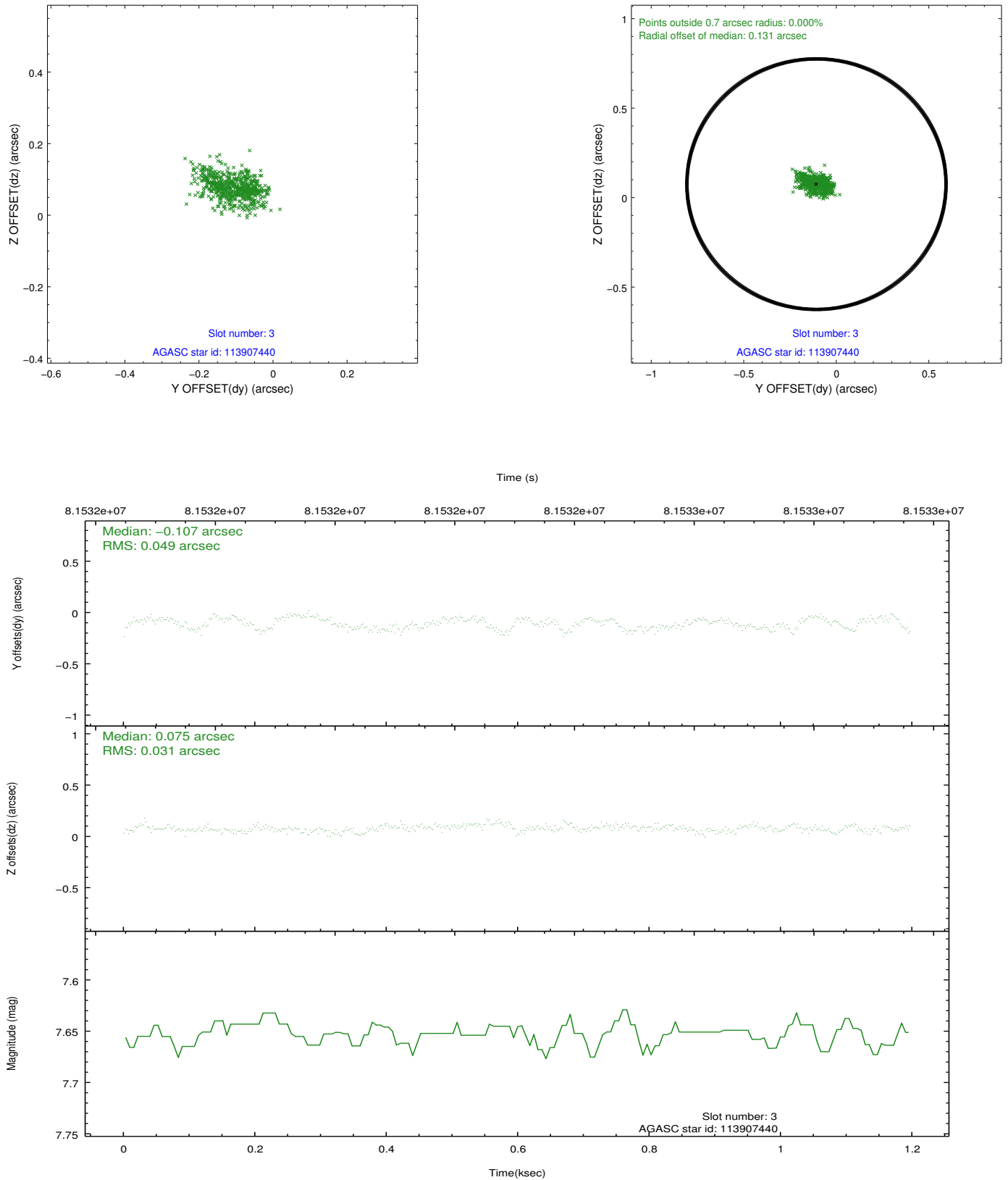
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	292	-0.032	0.016	0.007	0.011	0.000000	0.000000	-753.96	-1727.35
1	FID	ACIS-S-4	7.21	292	-0.027	0.011	0.005	0.011	0.000000	0.000000	2156.81	175.38
2	FID	ACIS-S-5	7.23	292	0.027	-0.018	0.007	0.012	0.000000	0.000000	-1799.56	175.35
3	GUIDE	113907440	7.65	584	-0.107	0.075	0.062	0.098	183.304663	10.821652	-1668.04	2272.09
4	GUIDE	113908616	8.67	584	-0.184	-0.027	0.077	0.116	182.402585	11.211583	-2228.88	-1162.46
5	GUIDE	113909952	9.86	584	0.165	0.060	0.091	0.149	182.703120	10.082649	1439.06	878.75
6	GUIDE	113905264	10.18	583	0.110	-0.003	0.121	0.190	182.445692	10.343633	764.10	-236.12
7	GUIDE	113910808	10.23	583	0.026	-0.112	0.149	0.242	183.289541	10.594003	-860.44	2426.72

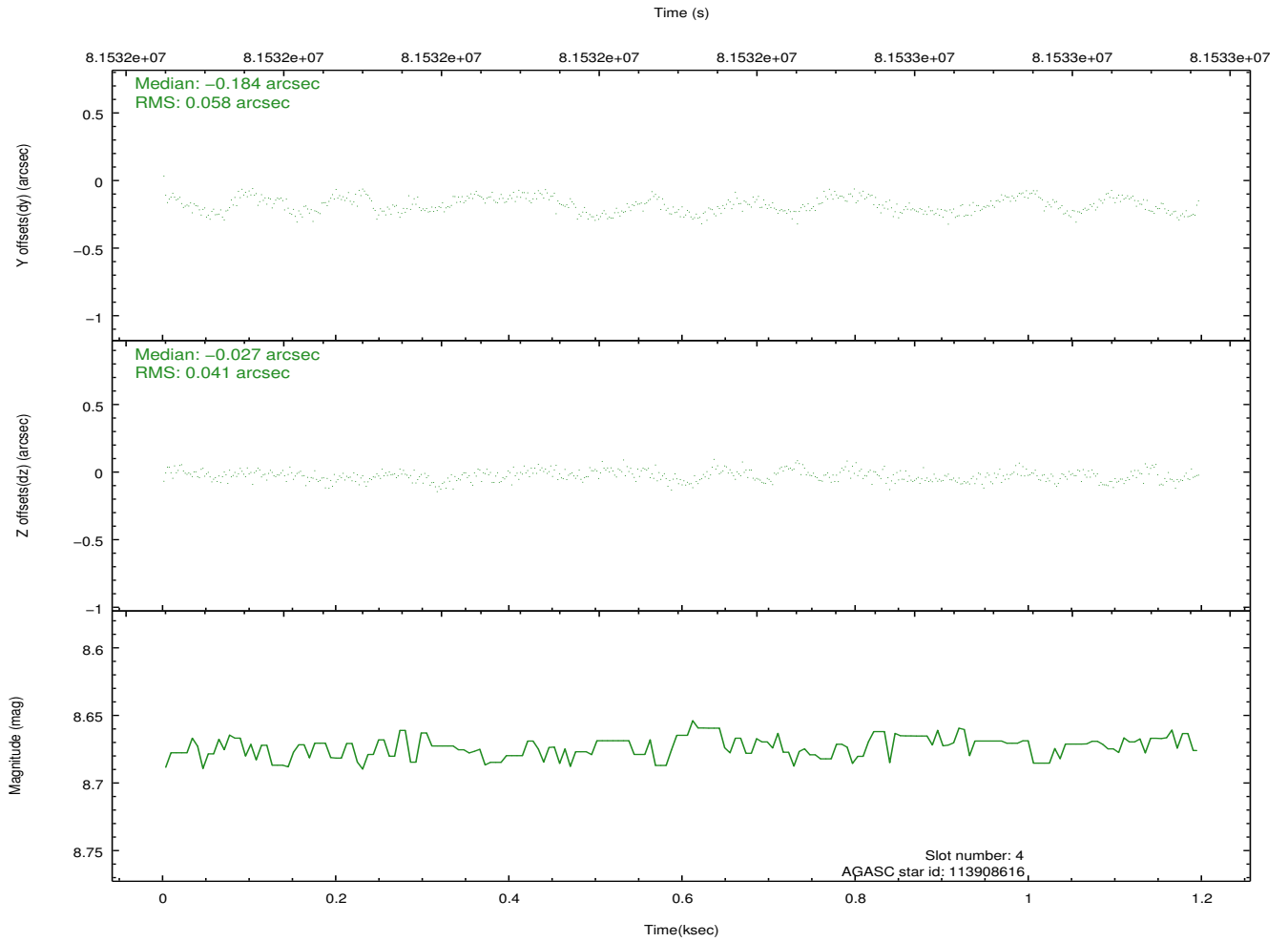
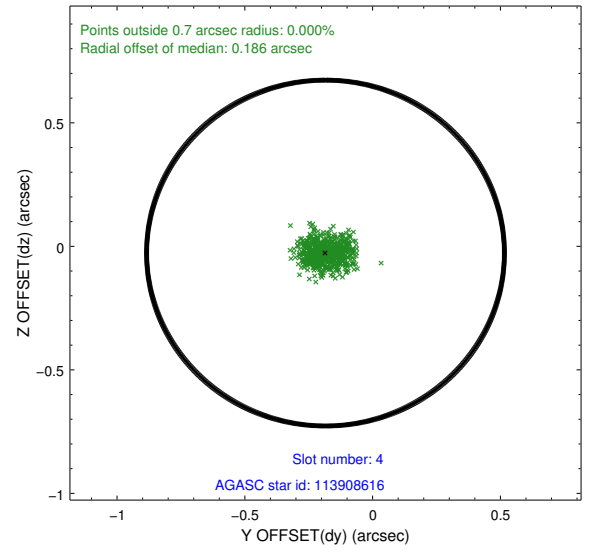
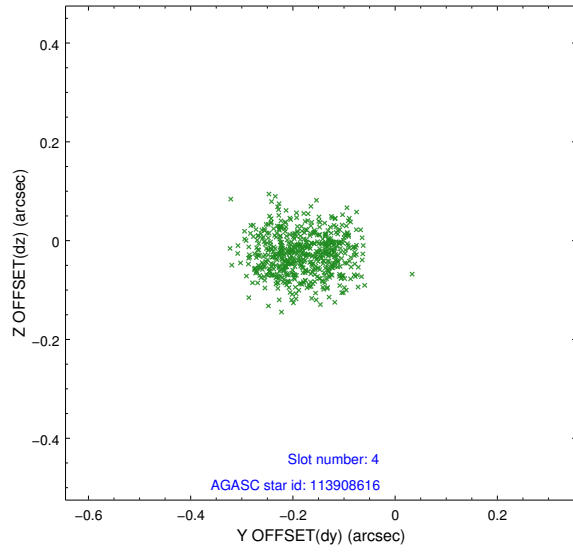


## 2.4 Star Slots

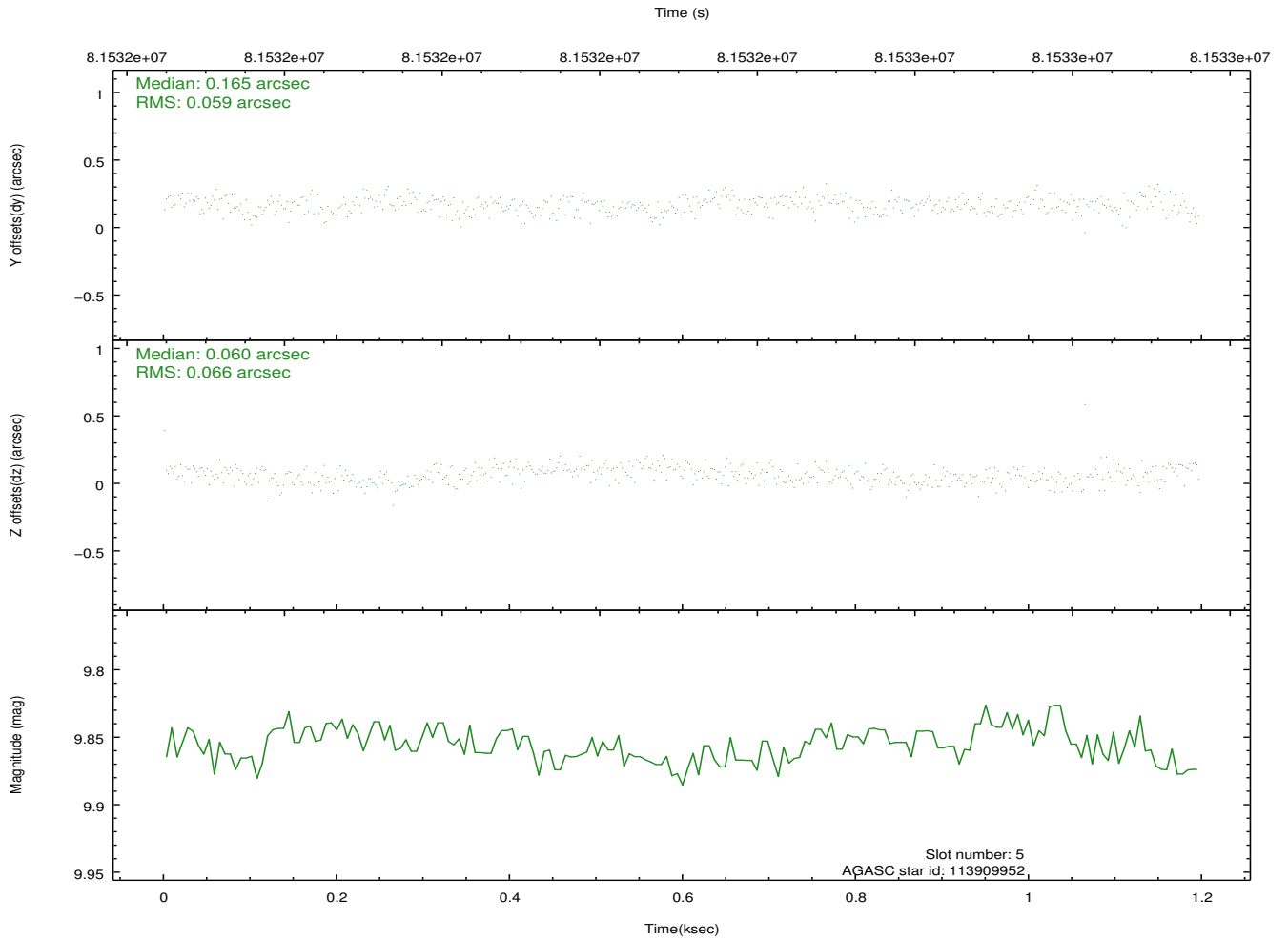
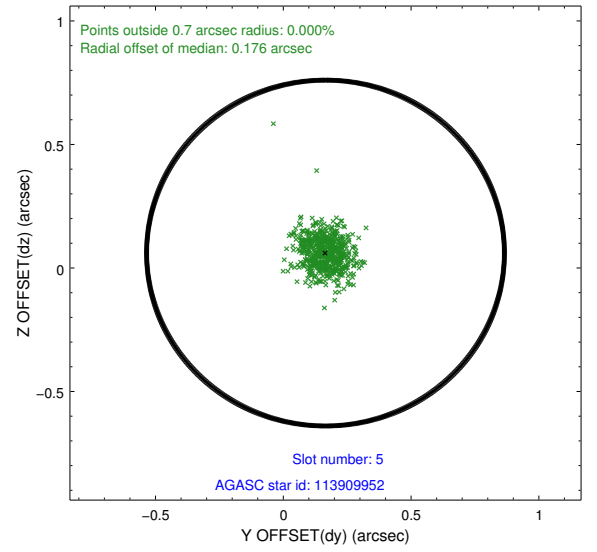
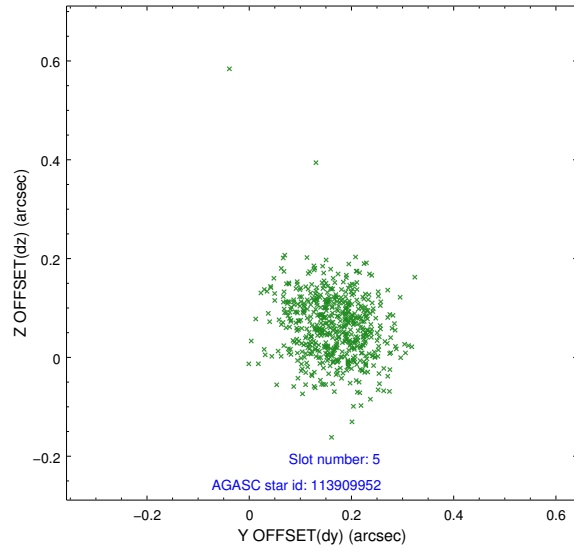
### 2.4.1 Slot 3



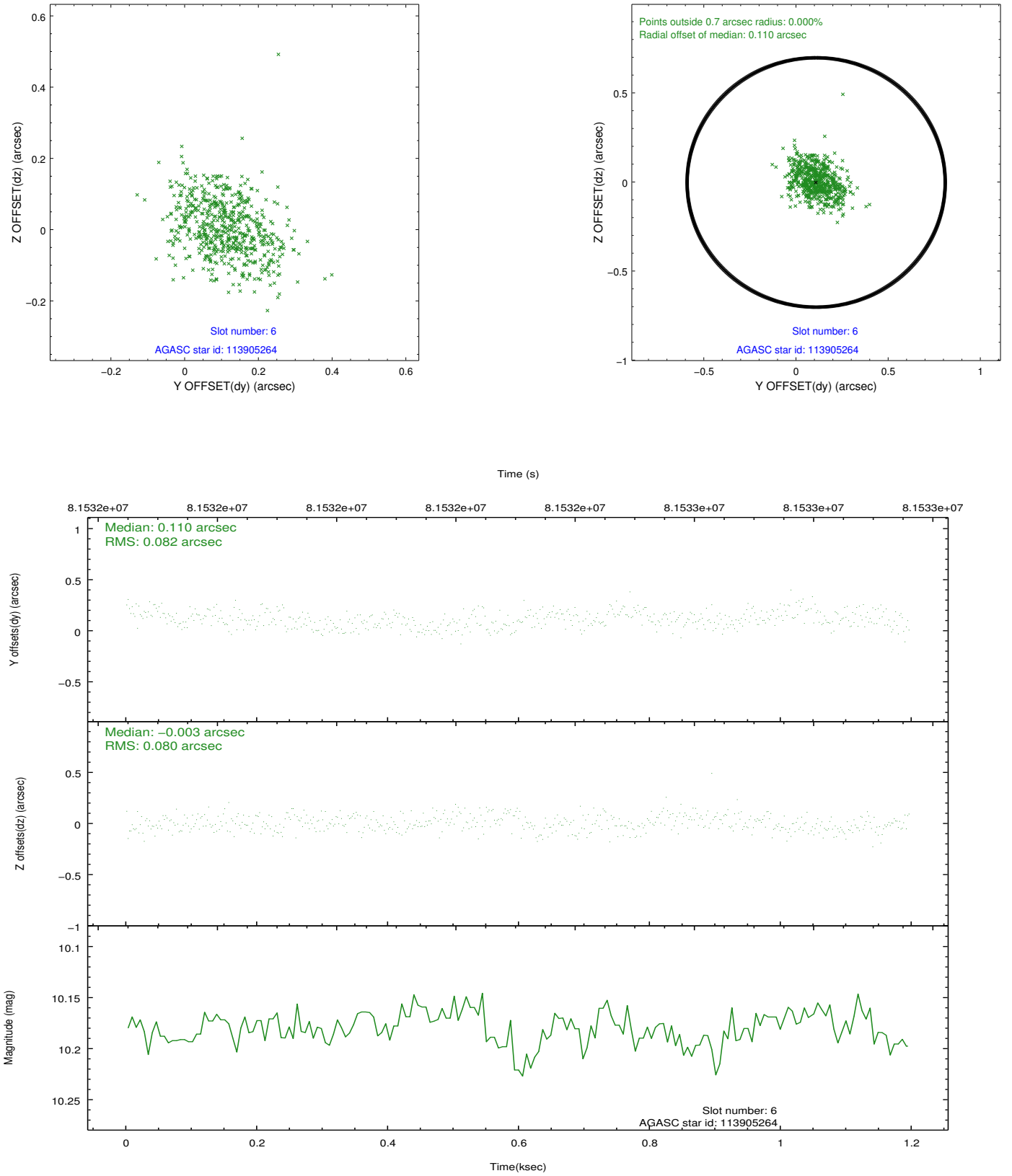
## 2.4.2 Slot 4



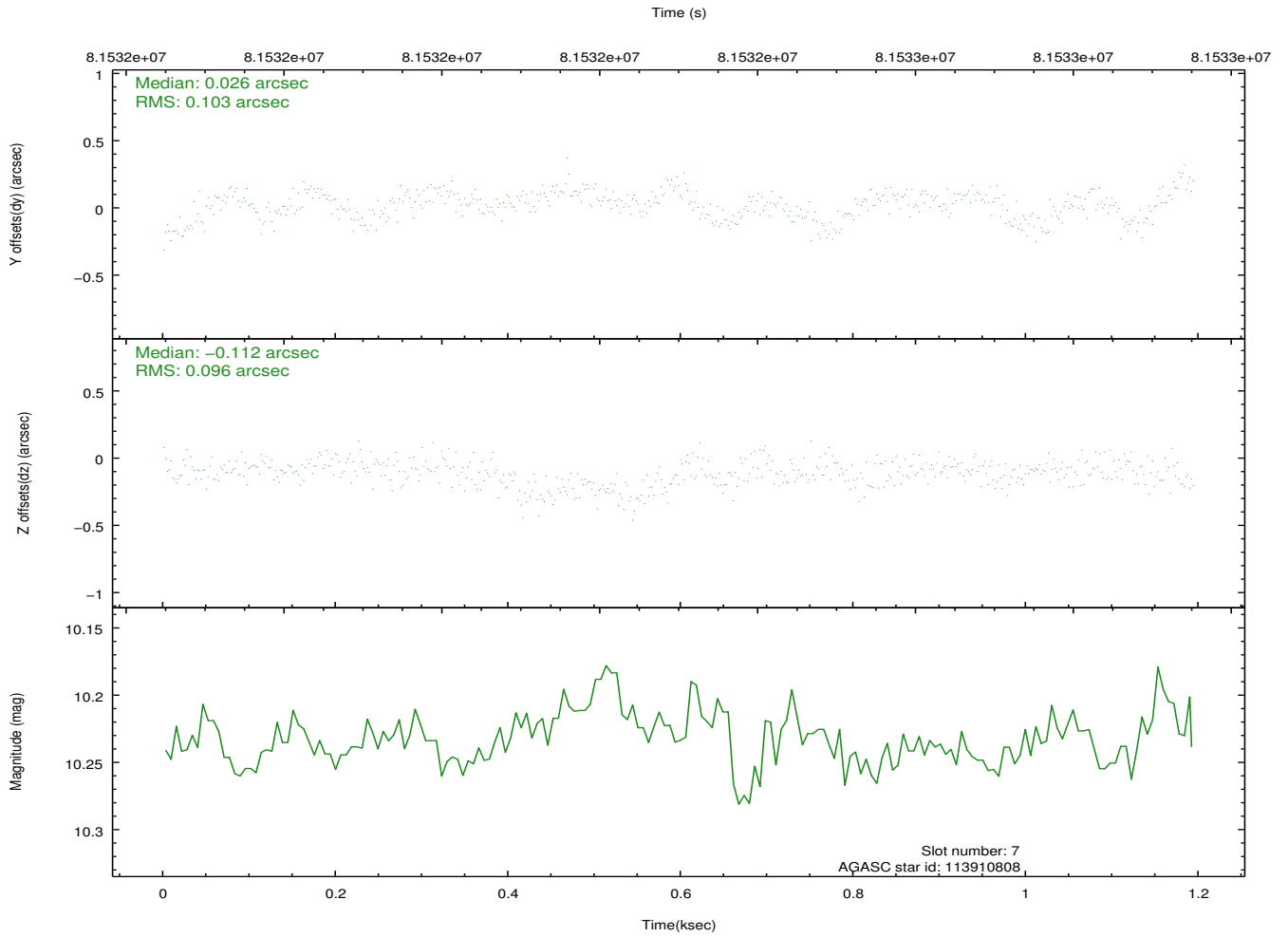
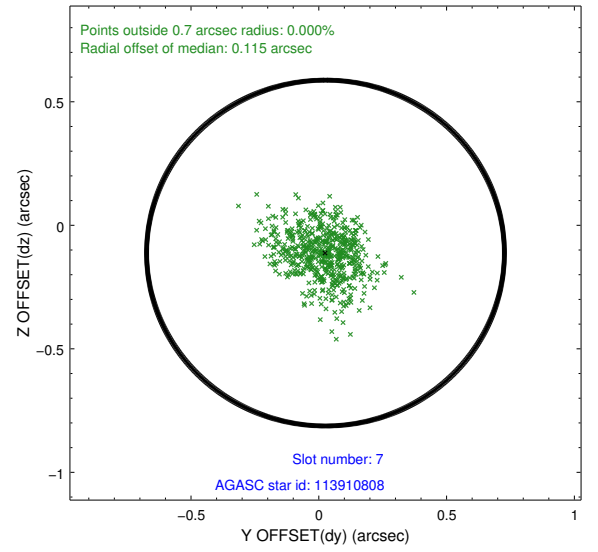
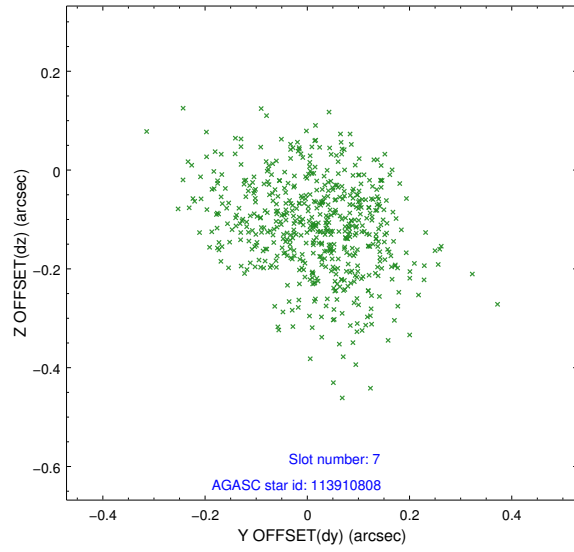
### 2.4.3 Slot 5



## 2.4.4 Slot 6

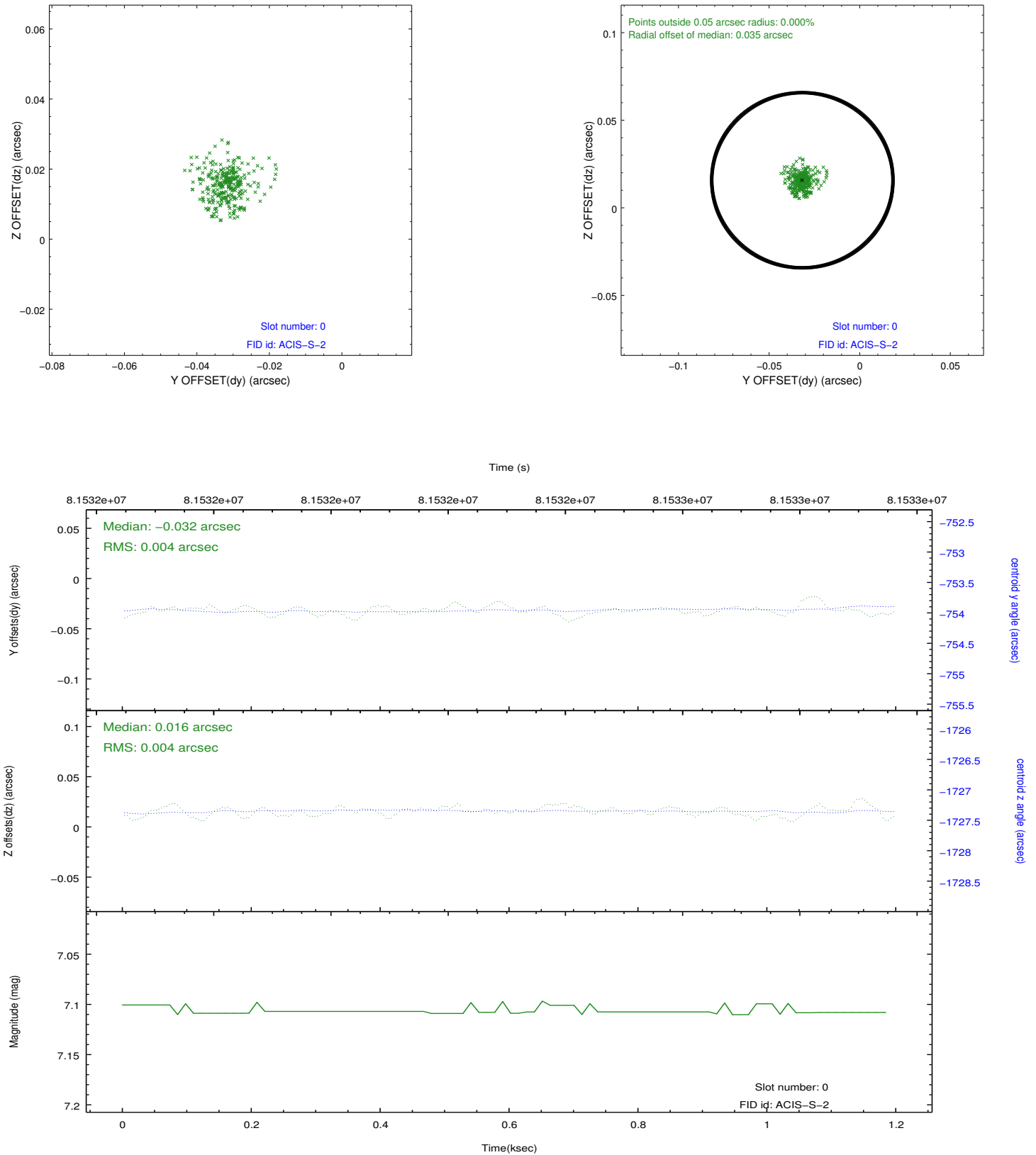


## 2.4.5 Slot 7

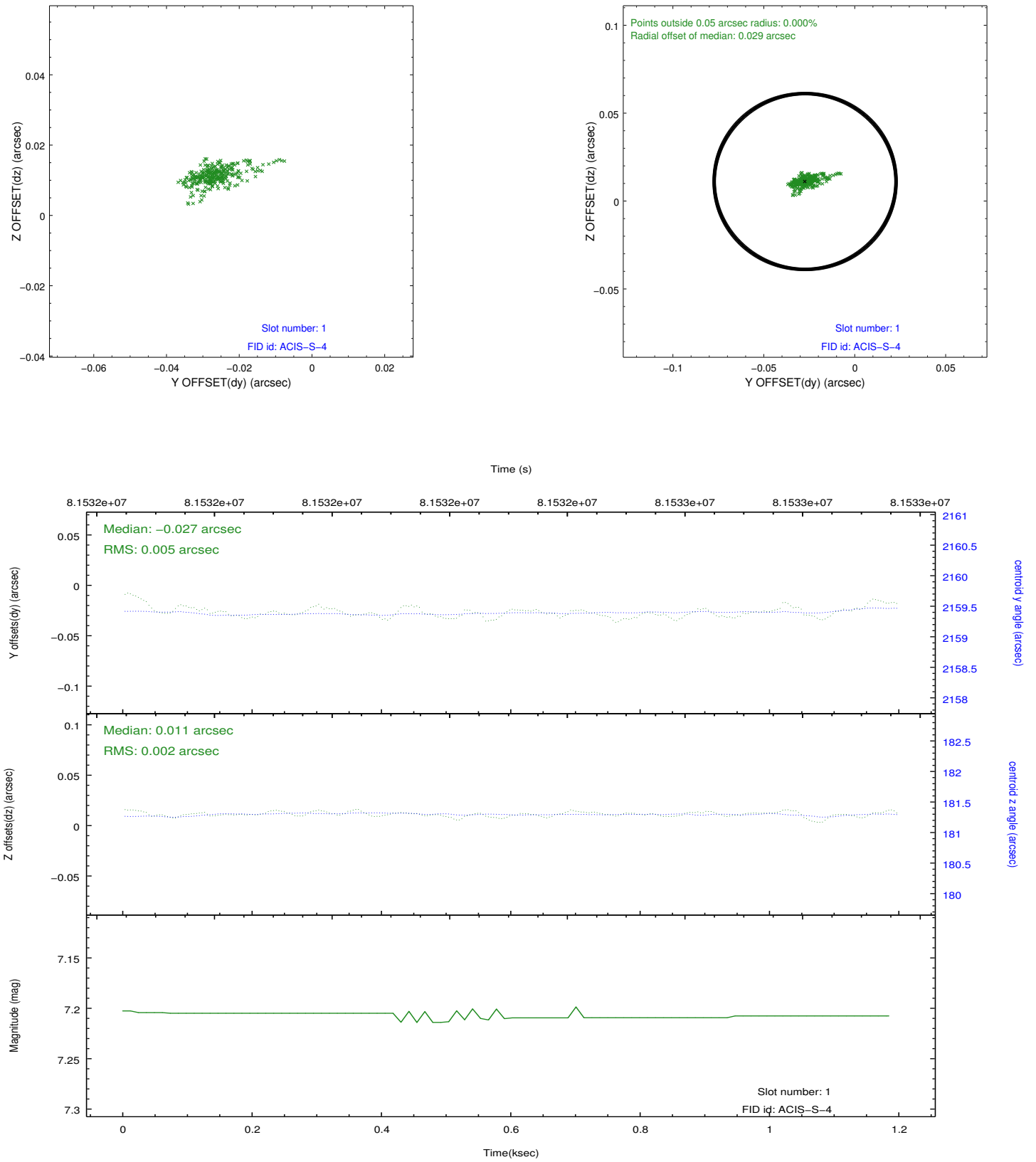


## 2.5 FID Slots

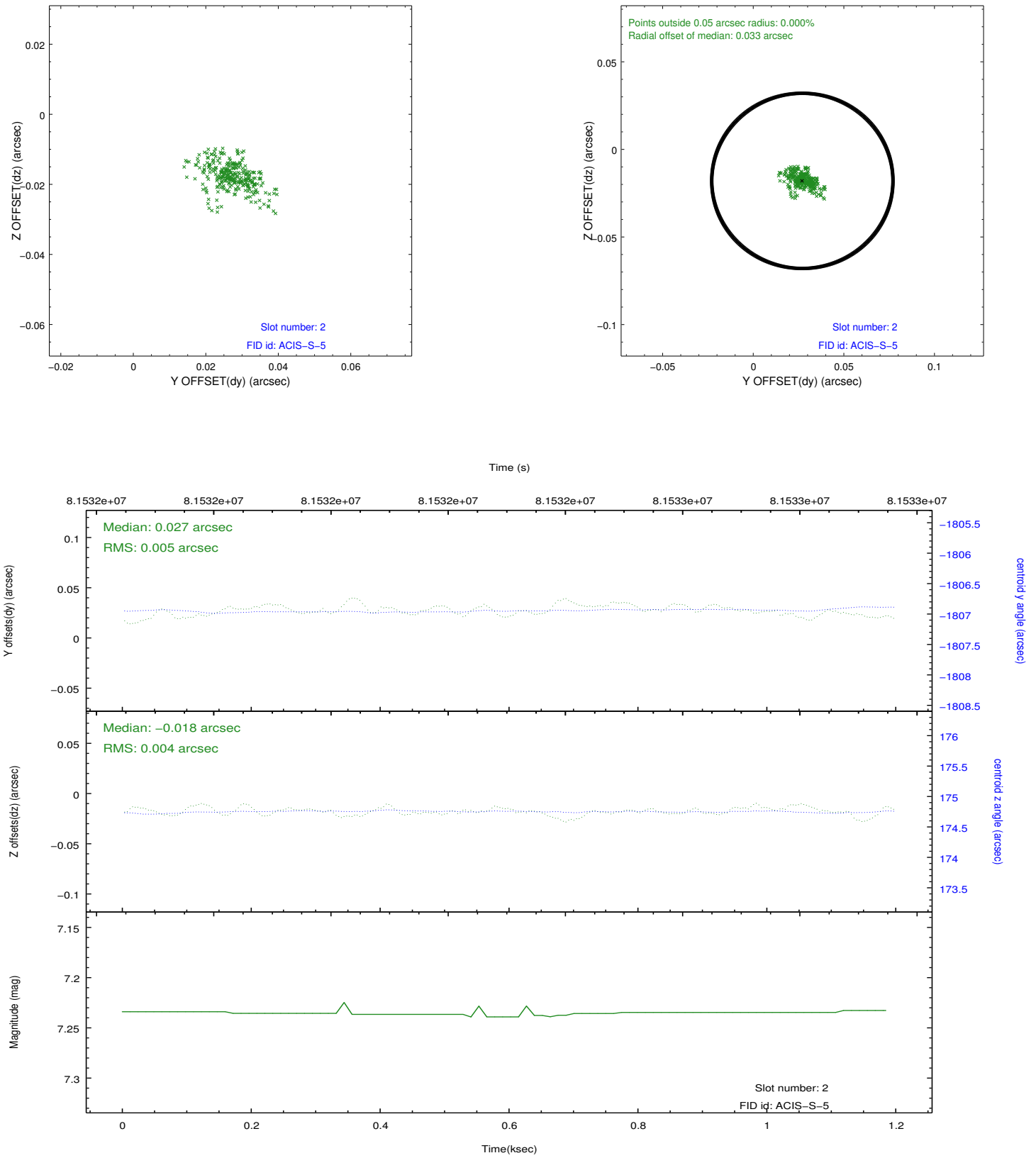
### 2.5.1 Slot 0



## 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	1.196

### A.2 Comments