

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2672 - L2 Version 3  
Chandra X-Ray Center

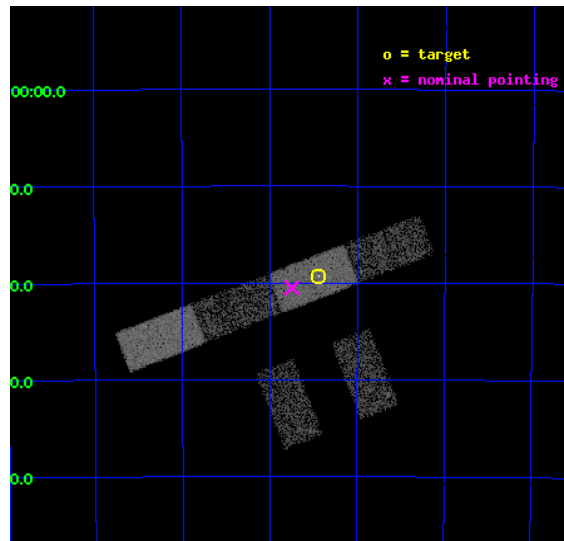
L2 Processing Date : Oct 8 2012

## 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

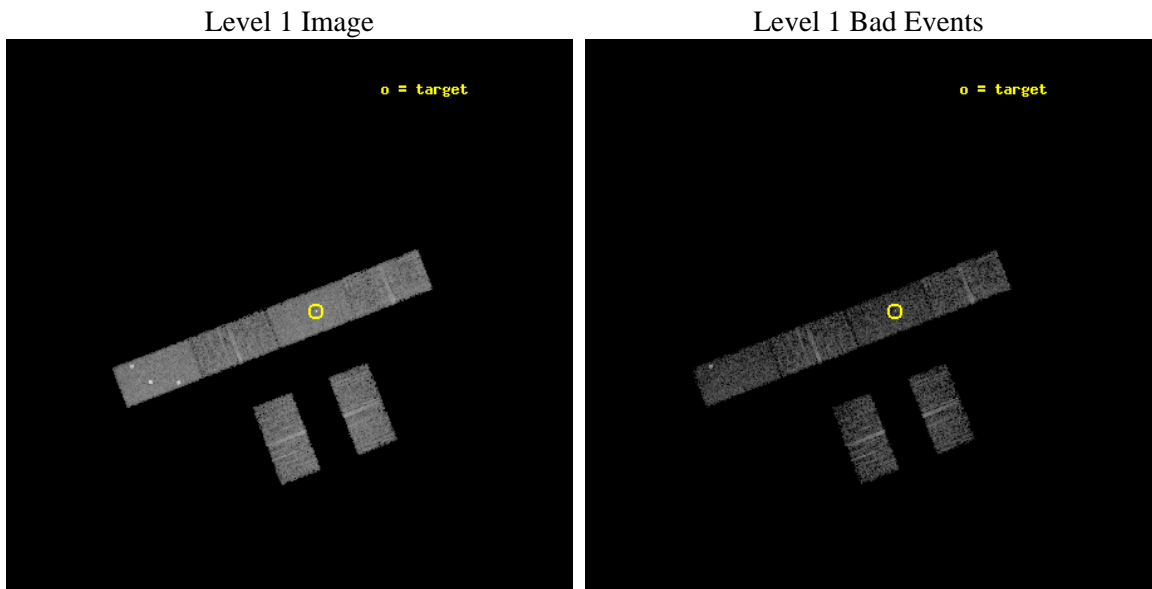
seq_num	300073	Sequence number
obs_id	2672	Observation id
title	MULTIWAVELENGTH TARGET OF OPPORTUNITY OBSERVATIONS OF A BRIGHT NOVA IN OUTBURST	Proposal title
observer	Regents' Professor Sumner Starrfield	Principal investigator
object	IM Nor	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.860417	Observer's specified target RA [deg]
dec_targ	-52.321722	Observer's specified target Dec [deg]
ra_nom	234.93688516198	Nominal RA [deg]
dec_nom	-52.341759564318	Nominal Dec [deg]
roll_nom	338.93464358051	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4933.8000326753	Sum of GTIs [s]
livetime	4823.8170049622	Livetime [s]
ontime2	4933.8000326753	Sum of GTIs [s]
ontime3	4933.8000326753	Sum of GTIs [s]
ontime5	4933.8000326753	Sum of GTIs [s]
ontime6	4933.8000326753	Sum of GTIs [s]
ontime7	4933.8000326753	Sum of GTIs [s]
ontime8	4933.8000326753	Sum of GTIs [s]
l2events	31260	Number of level 2 events



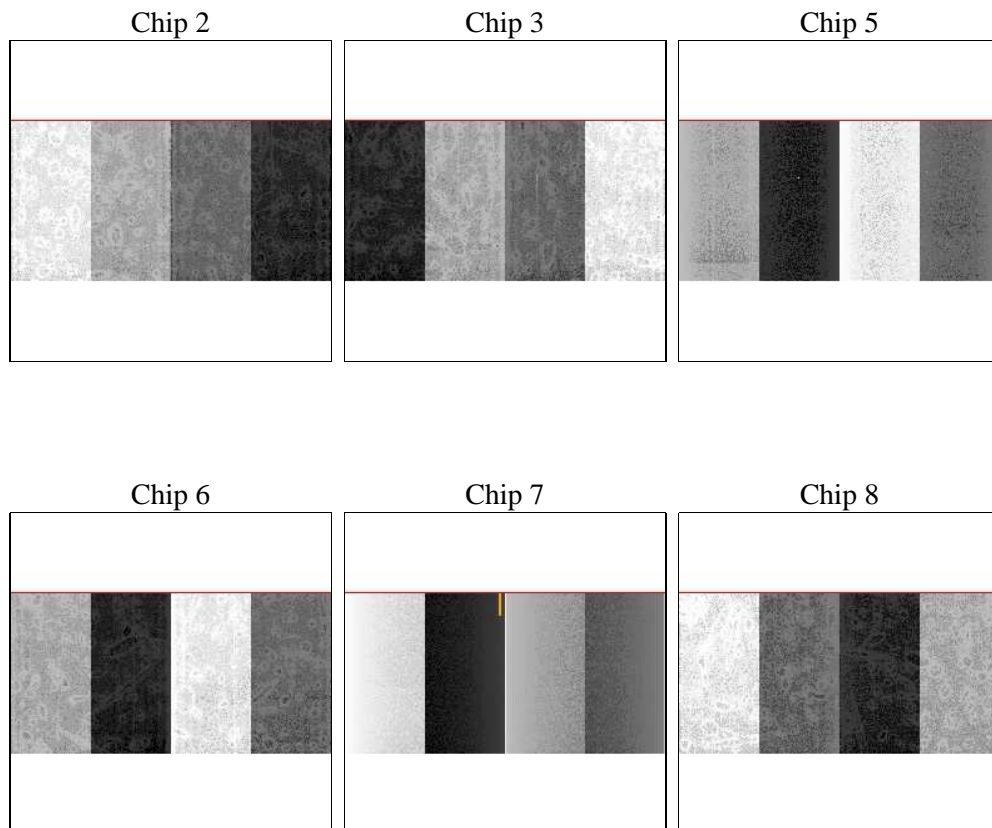
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4531.614000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4933.8000326753	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	4933.8000326753	Sum of GTIs [s]
date	2012-10-08T07:26:59	Date and time of file creation	ontime3	4933.8000326753	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4933.8000326753	Sum of GTIs [s]
			ontime6	4933.8000326753	Sum of GTIs [s]
			ontime7	4933.8000326753	Sum of GTIs [s]
			ontime8	4933.8000326753	Sum of GTIs [s]
			l1events	126837	Number of level 1 events

### 2.1.4 Events

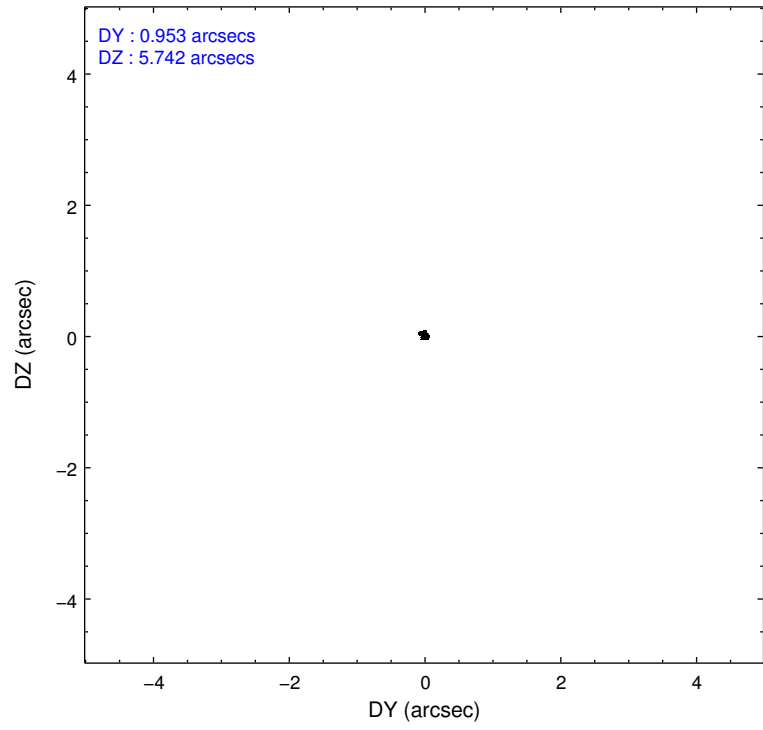
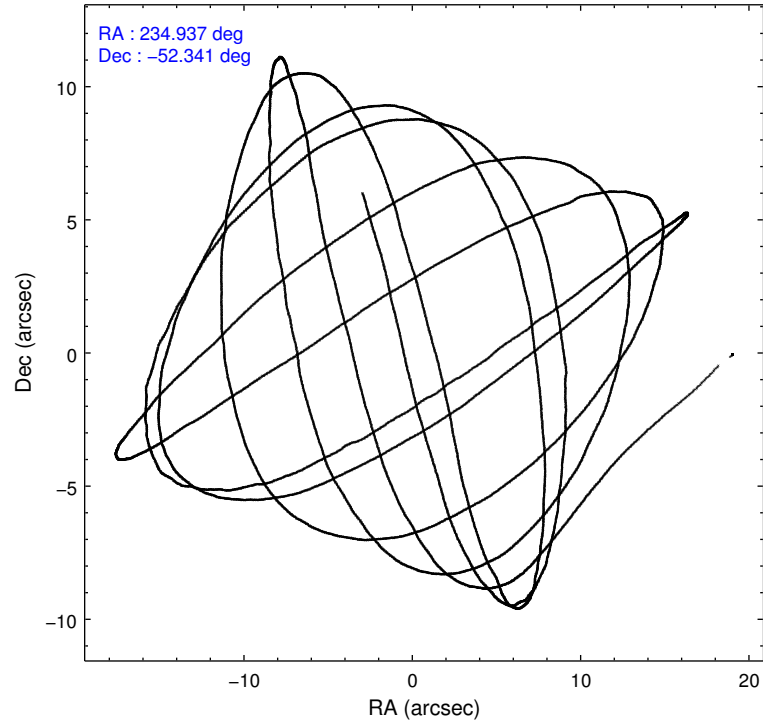
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17836	18107	28380	17680	23679	21155	grade 0 events	1194	1278	4720	1199	1407	1767
rejected events	15400	15566	12813	15195	12141	16417		6%	7%	16%	6%	5%	8%
rejected %	86%	85%	45%	85%	51%	77%	grade 1 events	6	8	49	7	40	10
								0%	0%	0%	0%	0%	0%
							grade 2 events	434	424	3705	429	2426	1003
								2%	2%	13%	2%	10%	4%
							grade 3 events	193	252	822	220	1103	474
								1%	1%	2%	1%	4%	2%
							grade 4 events	240	227	574	244	1118	442
								1%	1%	2%	1%	4%	2%
							grade 5 events	600	634	2073	705	2031	862
								3%	3%	7%	3%	8%	4%
							grade 6 events	375	362	5769	399	5494	1054
								2%	1%	20%	2%	23%	4%
							grade 7 events	14794	14922	10668	14477	10060	15543
								82%	82%	37%	81%	42%	73%

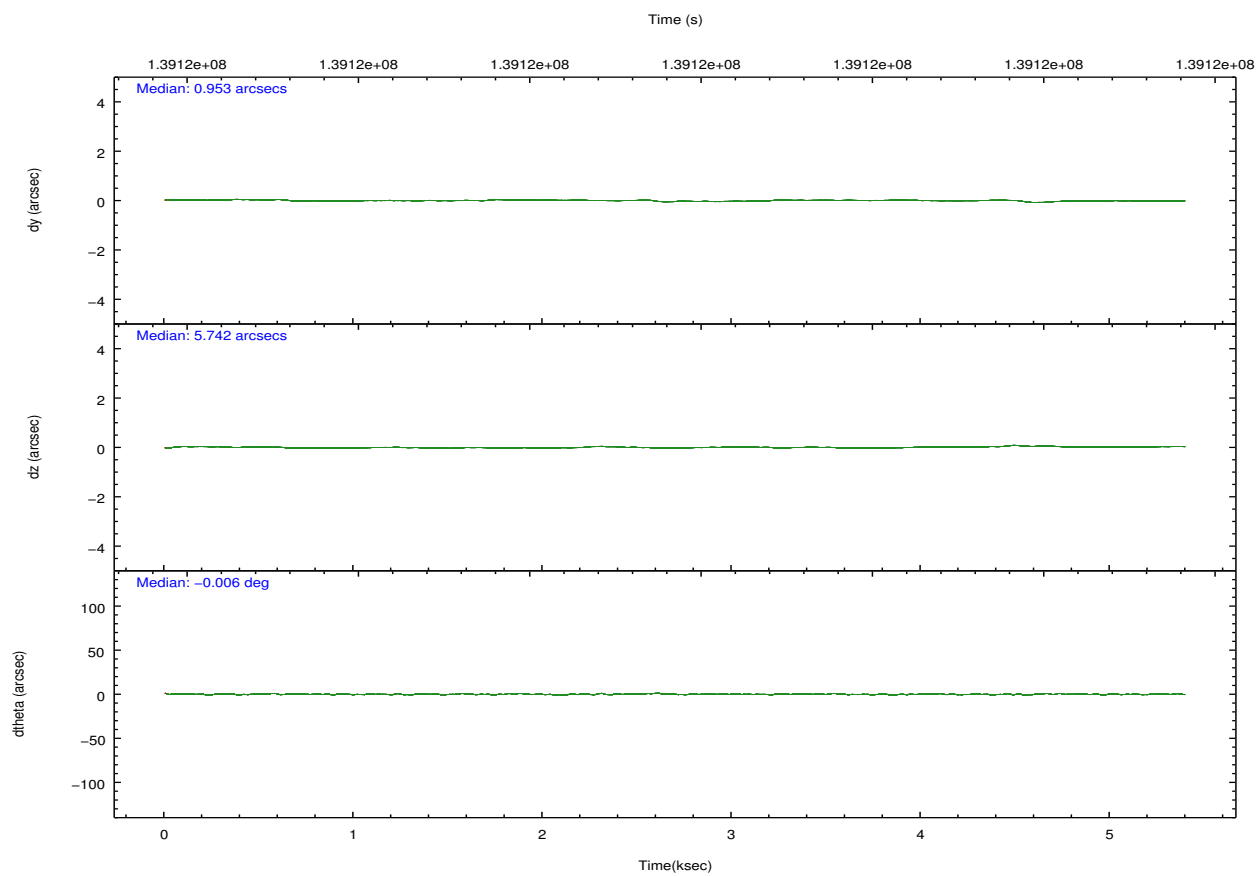
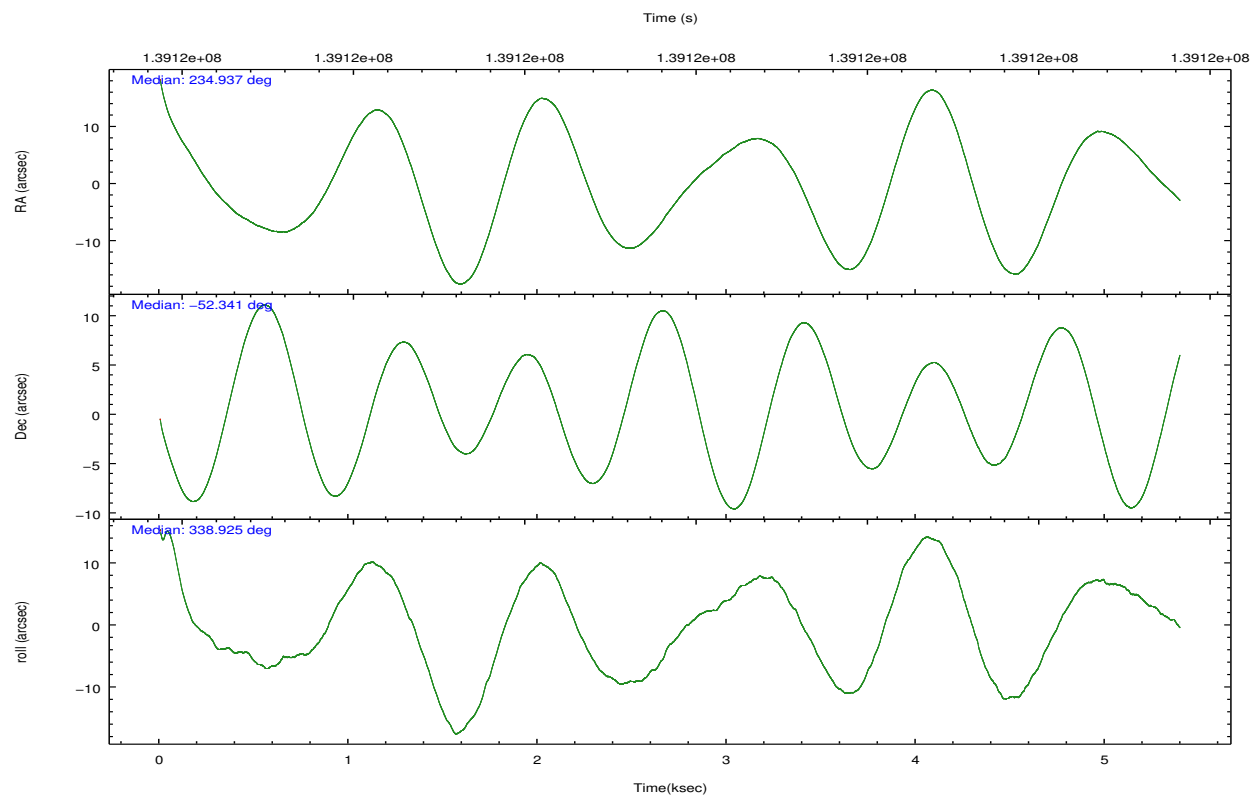


## 2.2 Compared Parameters

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	234.892804	234.9368851619843	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-52.346239	-52.3417595643182	Subarray start row	257	257
[deg] Pointing Roll	338.743126	338.9346435805124	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	139117013.184000	139115722.30882			
Observation start date	2002-05-30T03:35:49	2002-05-30T03:15:22			
[s] Observation end time (MET)	139121545.184000	139121858.98407			
Observation end date	2002-05-30T04:51:21	2002-05-30T04:57:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect



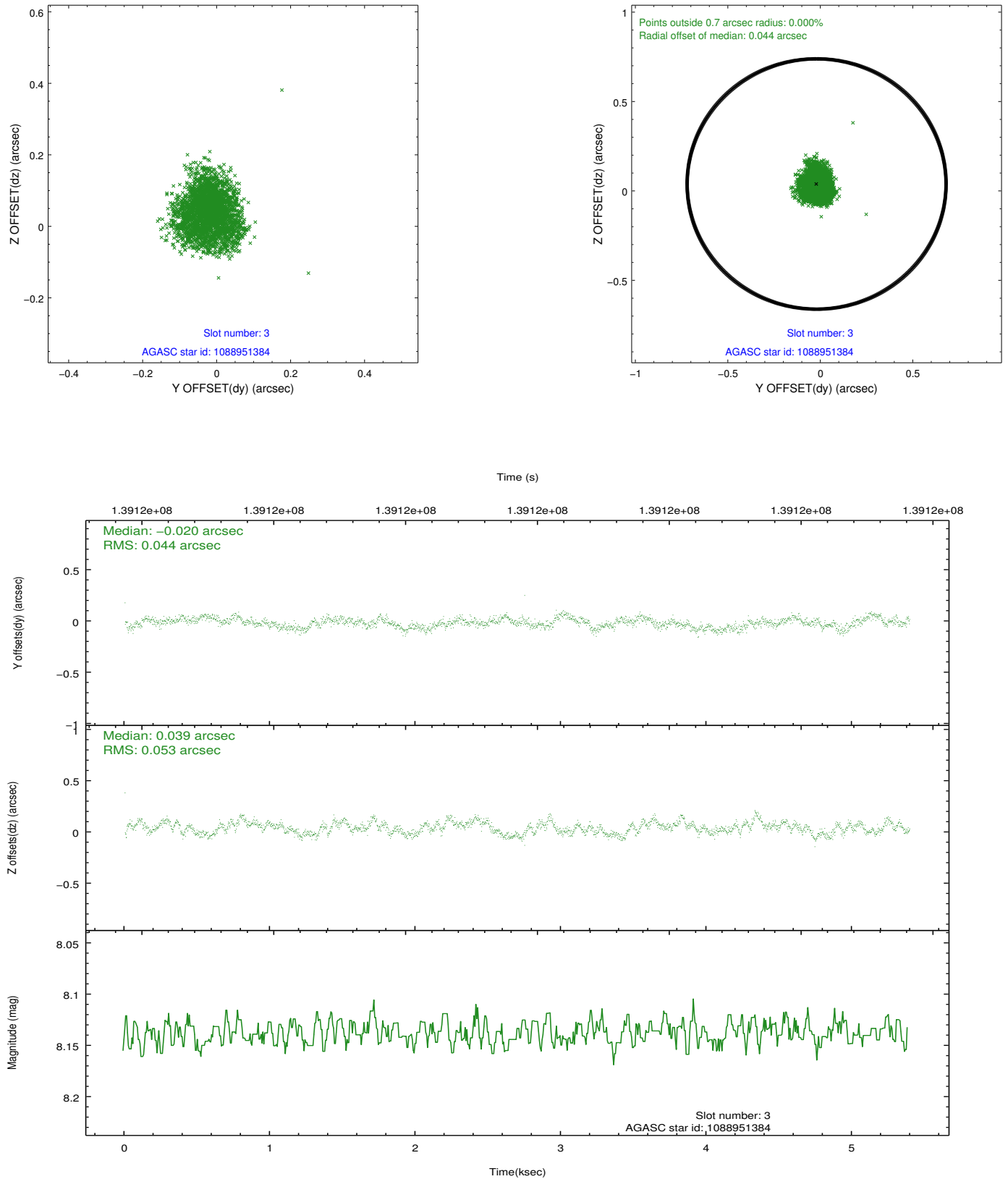


### Slot Statistics

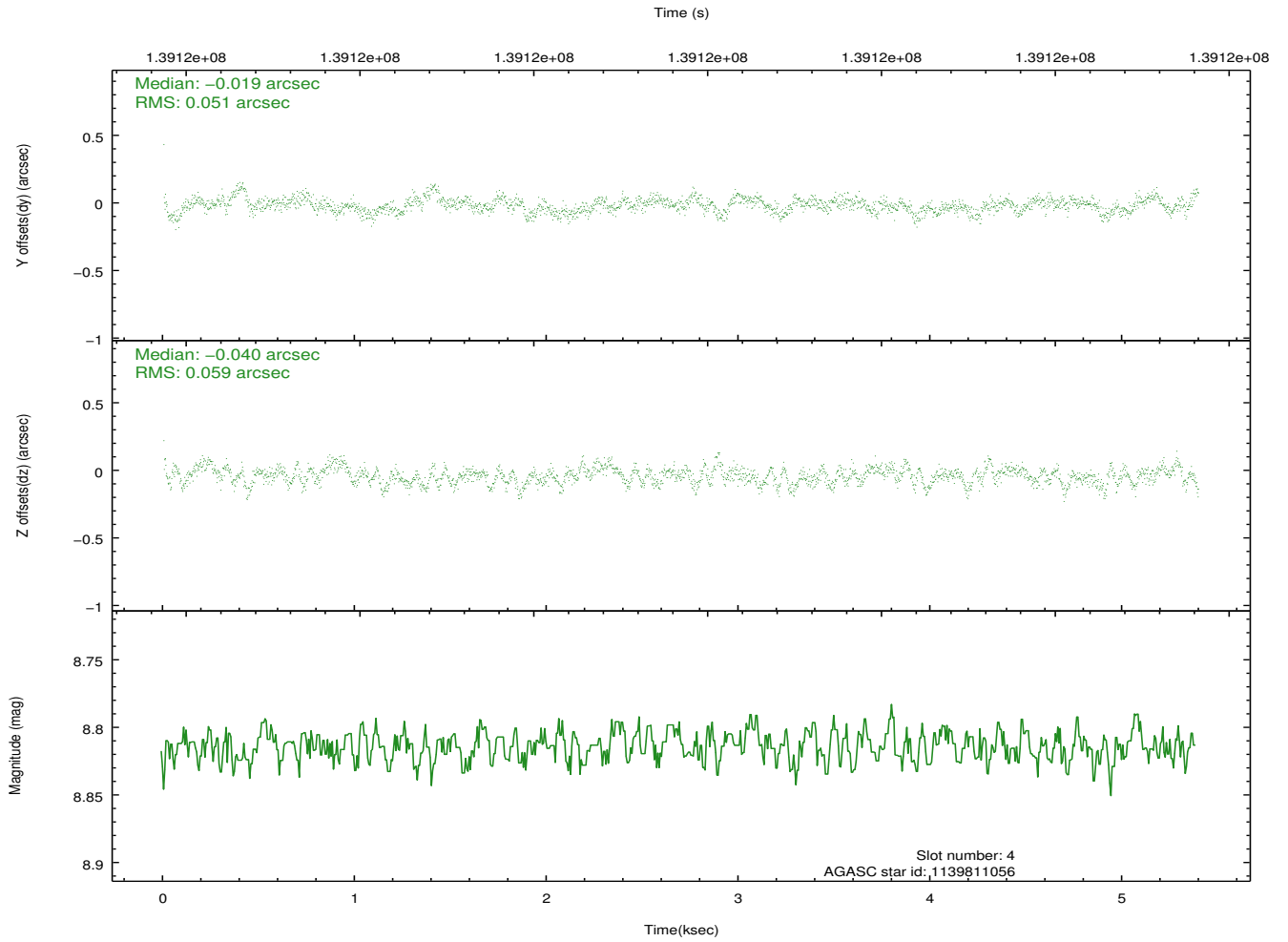
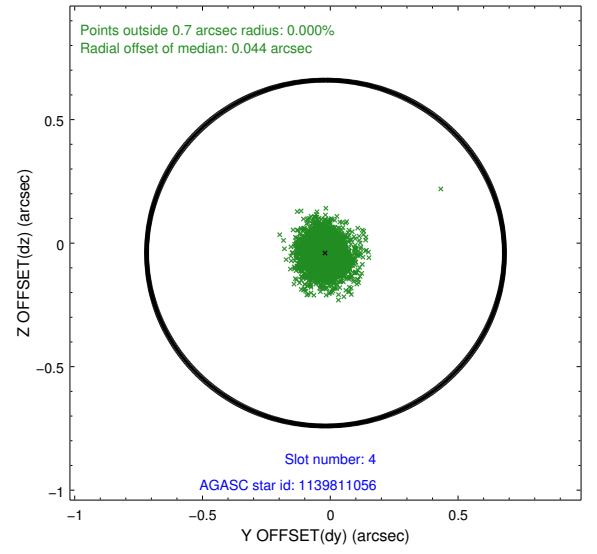
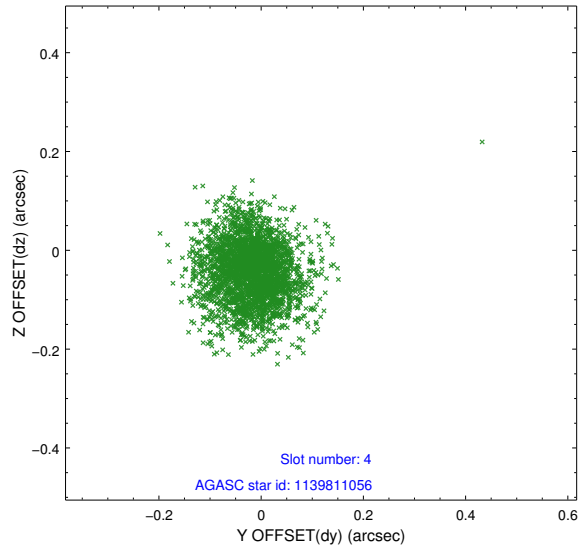
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1316	-0.069	-0.009	0.007	0.011	0.000000	0.000000	-753.56	-1726.91
1	FID	ACIS-S-4	7.21	1316	0.040	0.036	0.005	0.011	0.000000	0.000000	2159.27	180.55
2	FID	ACIS-S-5	7.24	1316	-0.002	-0.017	0.006	0.011	0.000000	0.000000	-1804.94	175.33
3	GUIDE	1088951384	8.14	2631	-0.020	0.039	0.075	0.114	235.194960	-52.473439	783.92	-188.75
4	GUIDE	1139811056	8.81	2629	-0.019	-0.040	0.081	0.136	234.319089	-52.747445	-639.30	-1805.40
5	GUIDE	1088953416	8.95	2627	0.012	0.003	0.077	0.126	235.692865	-52.085915	1312.58	1504.31
6	GUIDE	1088950264	9.20	2632	0.018	-0.026	0.091	0.147	235.183580	-52.231636	448.69	615.28
7	GUIDE	1088951112	9.60	2630	-0.000	0.029	0.188	0.264	235.531311	-52.139559	1047.10	1198.42

## 2.4 Star Slots

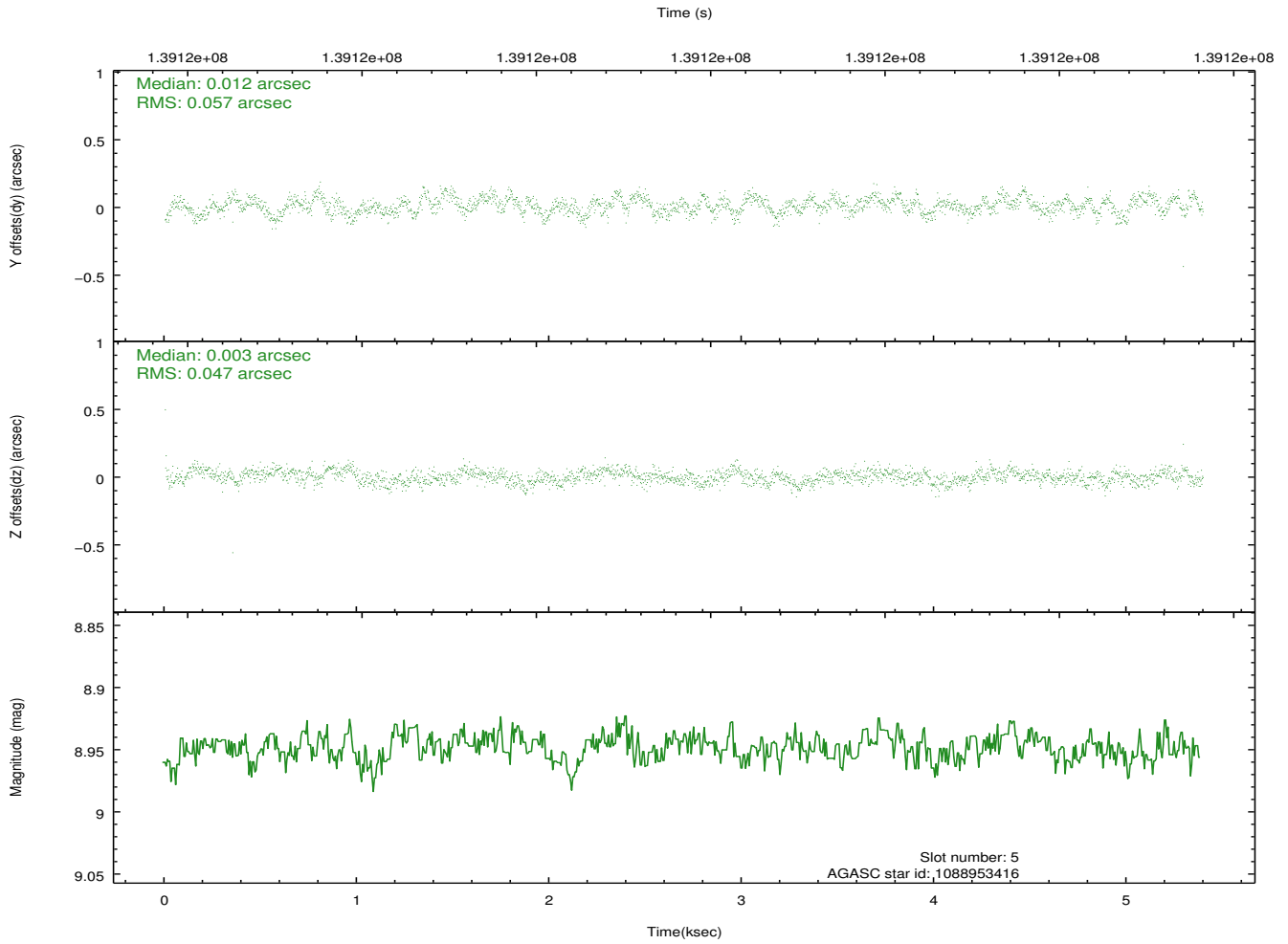
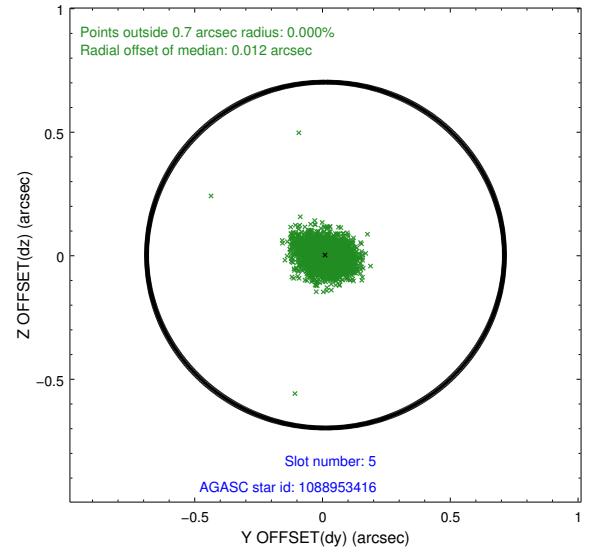
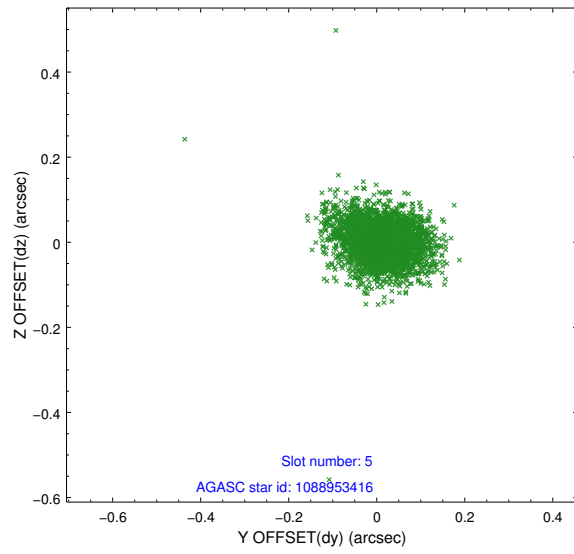
### 2.4.1 Slot 3



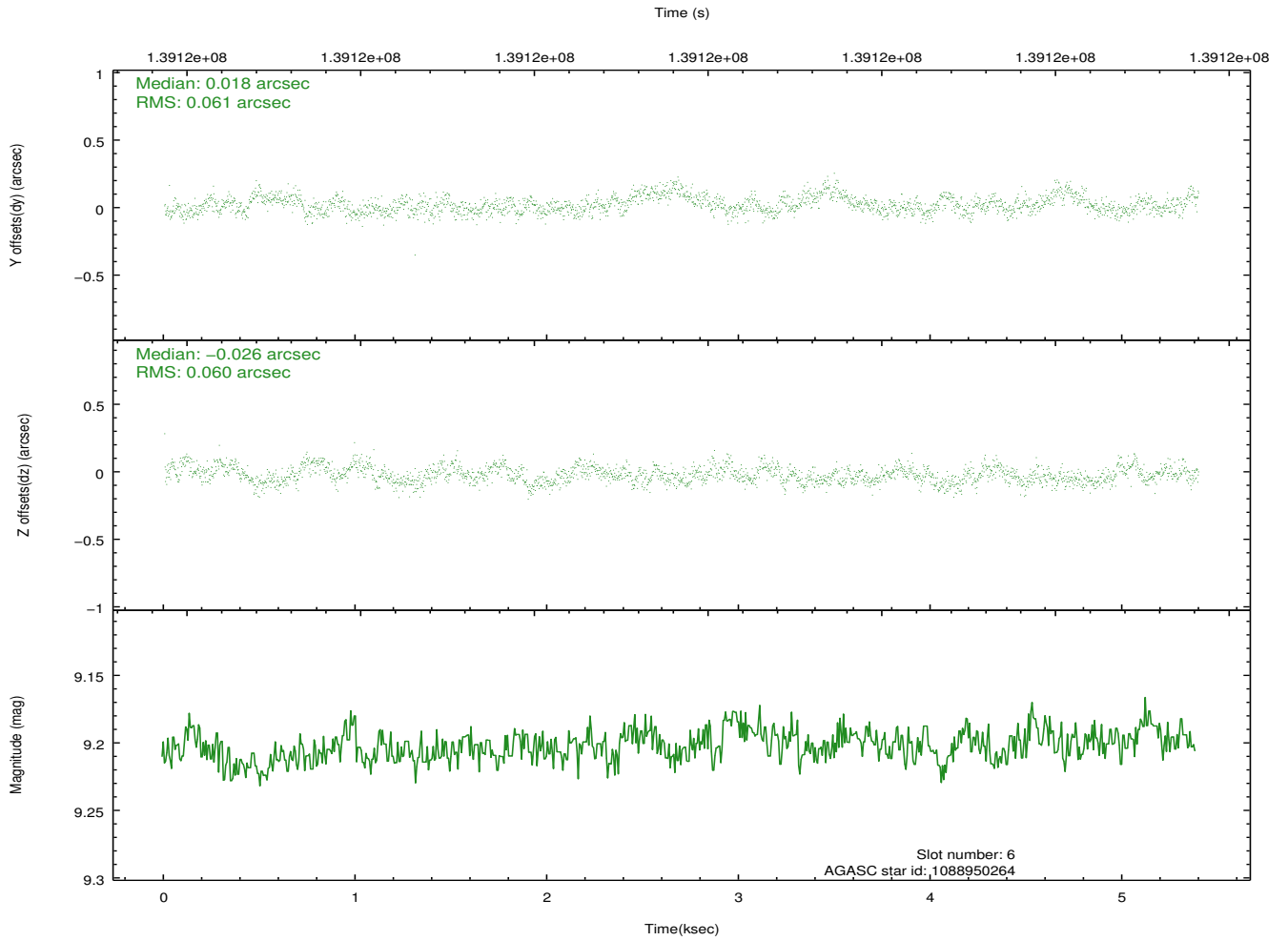
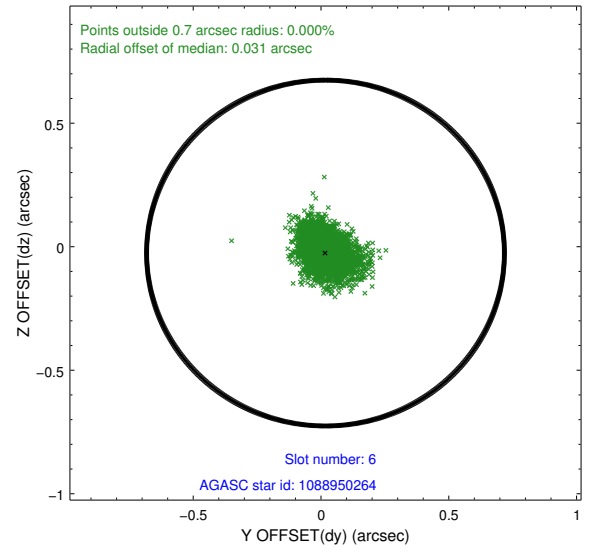
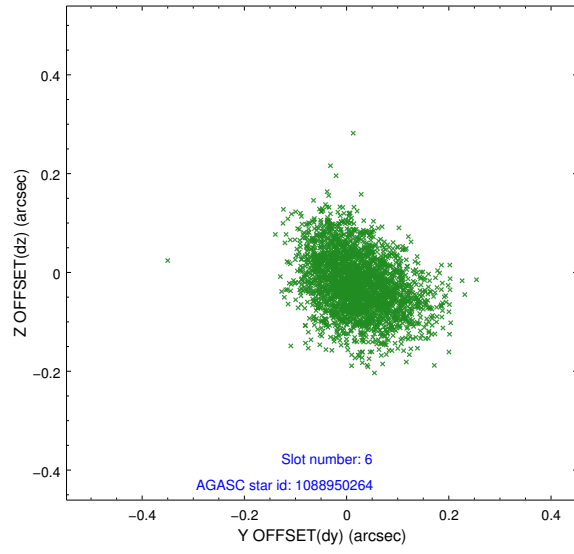
## 2.4.2 Slot 4



### 2.4.3 Slot 5

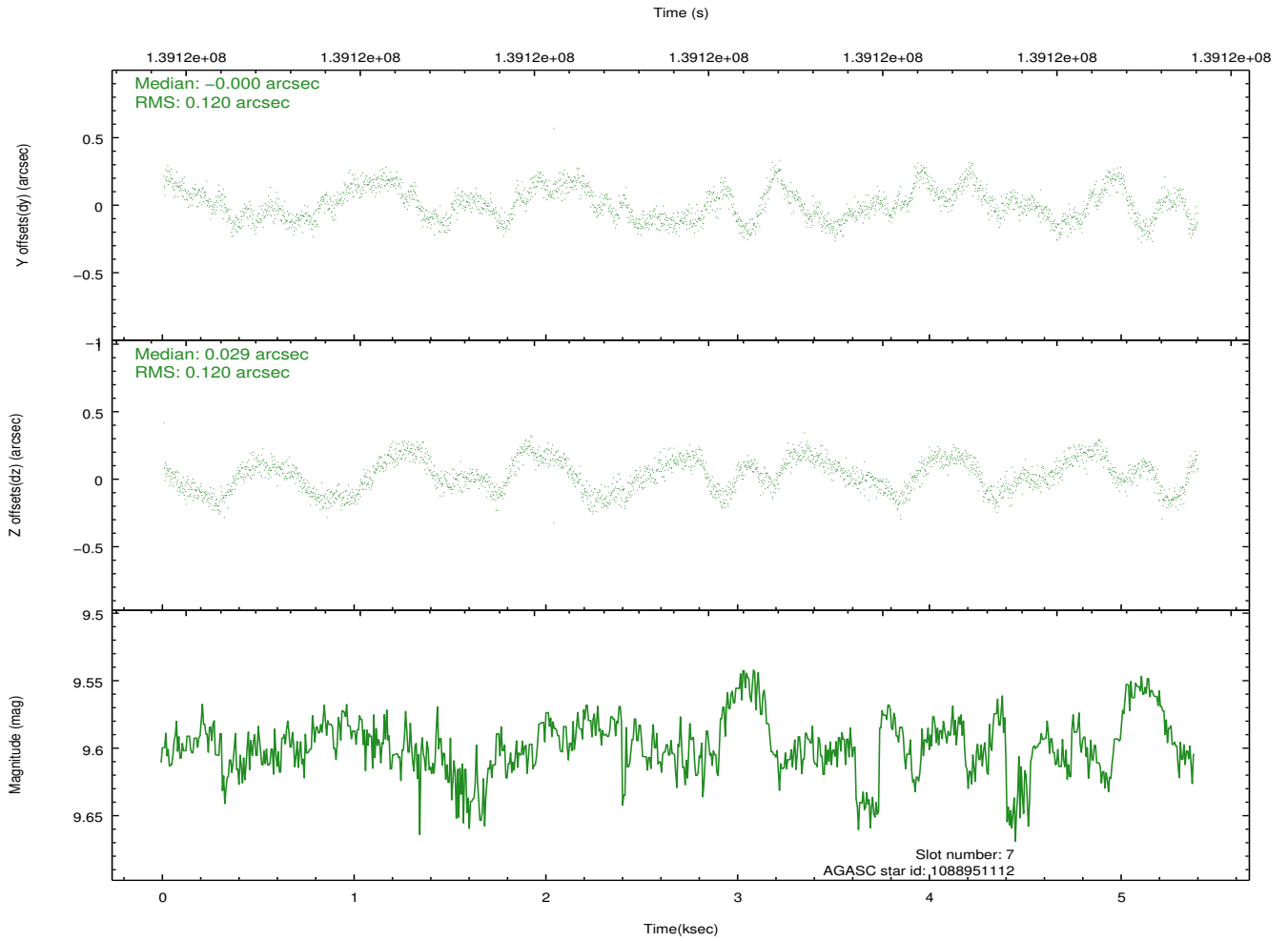
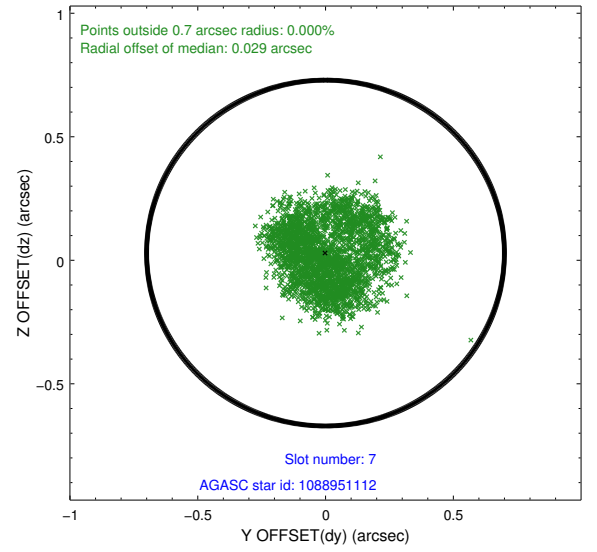
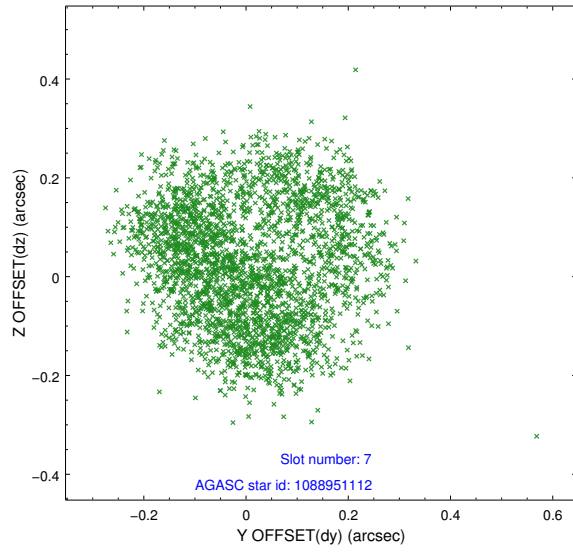


## 2.4.4 Slot 6



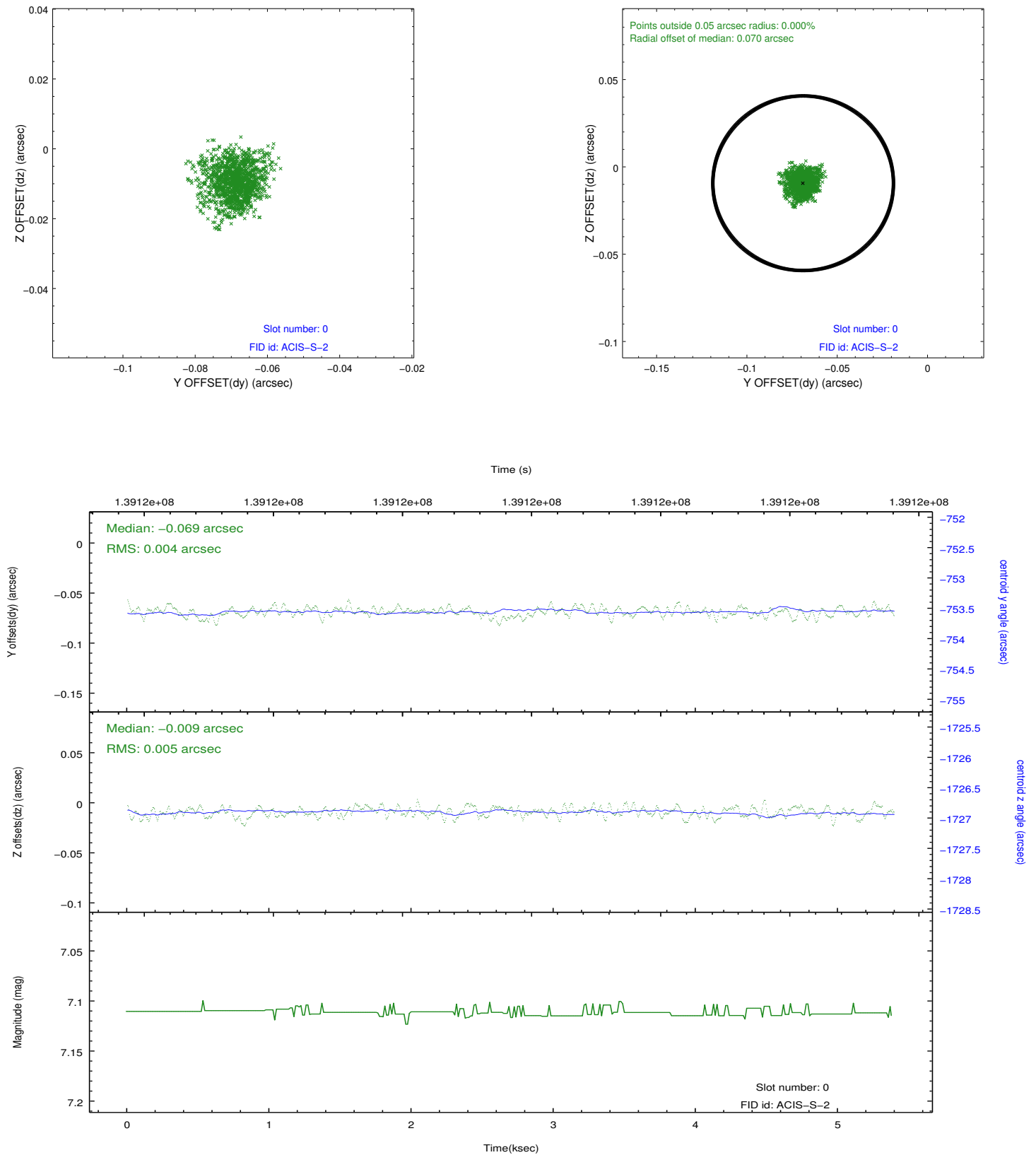


## 2.4.5 Slot 7

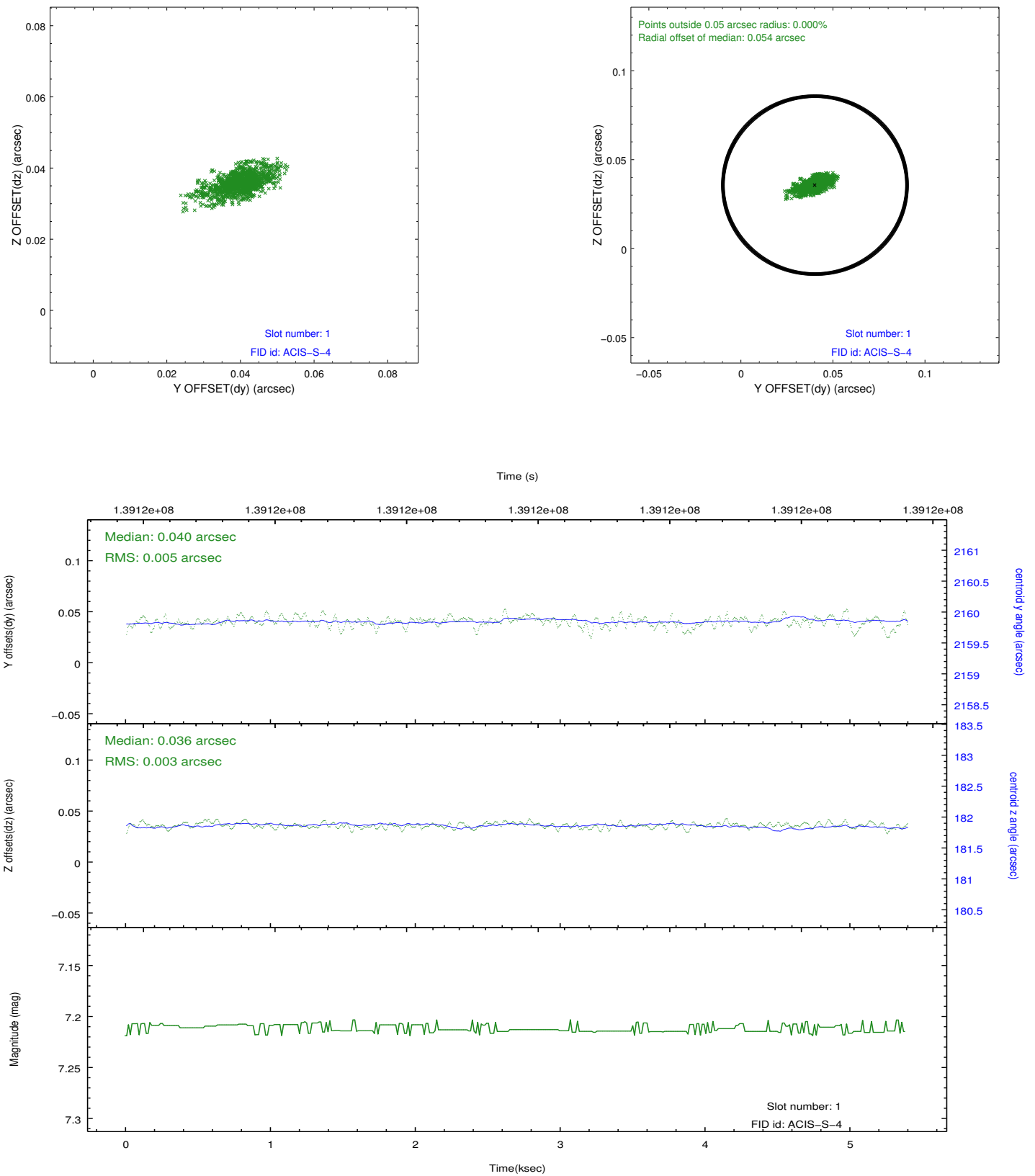


## 2.5 FID Slots

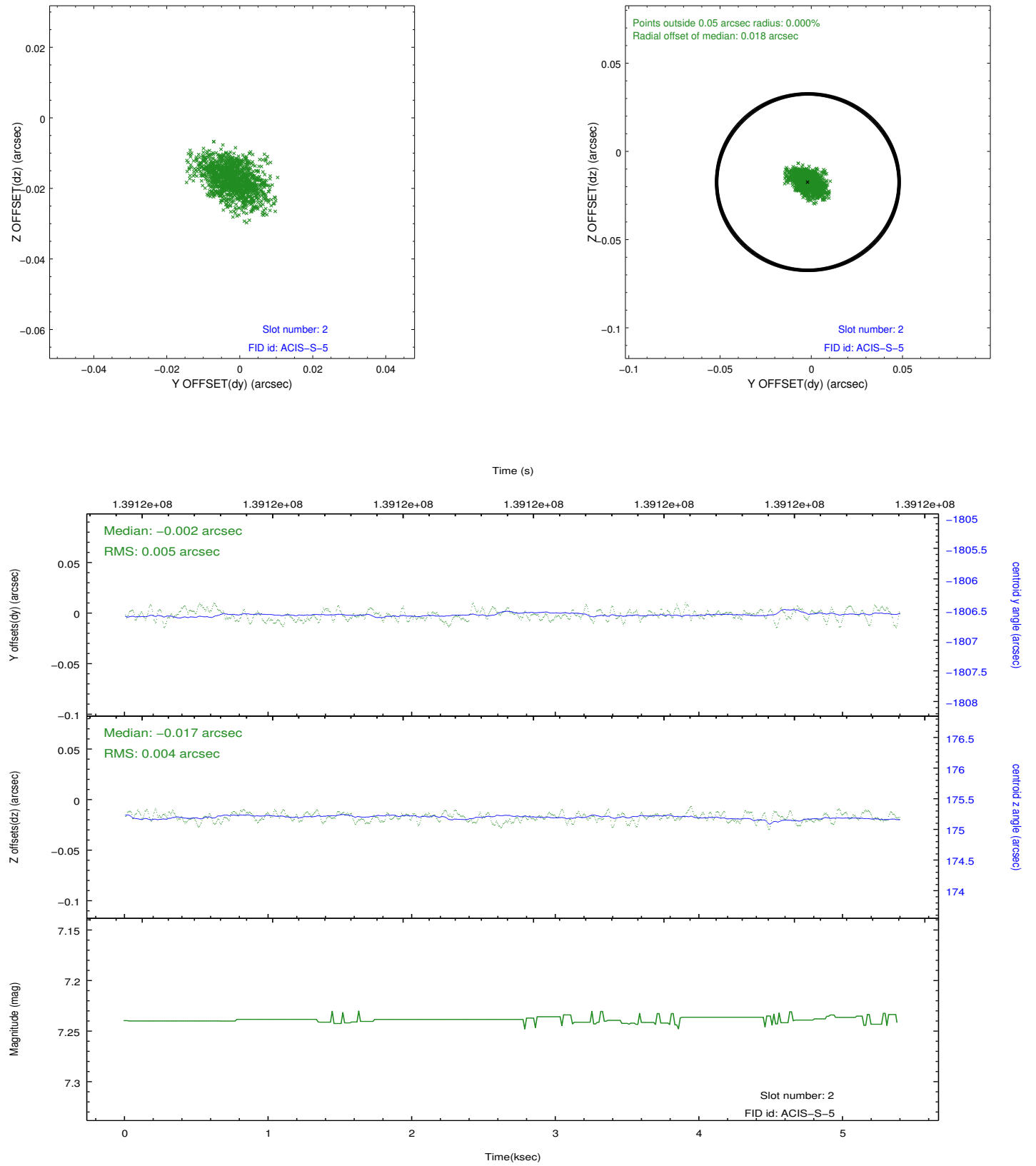
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.935

### A.2 Comments