

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 313 - L2 Version 3  
Chandra X-Ray Center

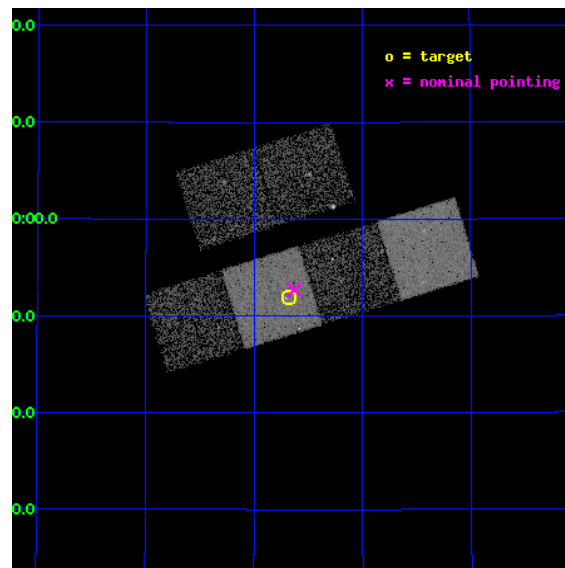
L2 Processing Date : Sep 5 2012

## 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

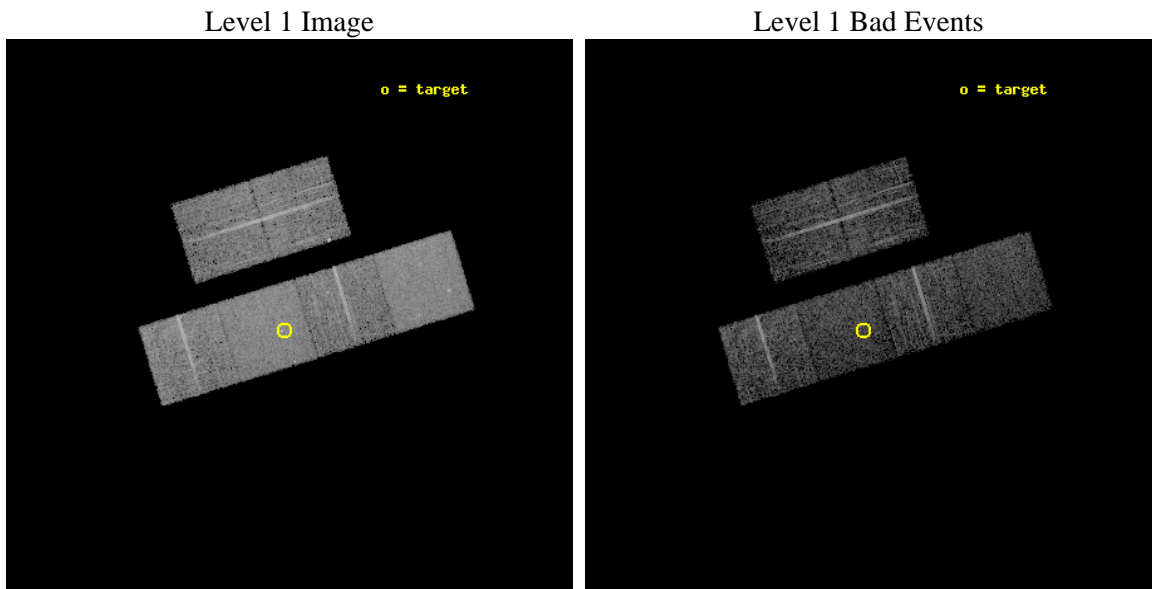
seq_num	600073	Sequence number
obs_id	313	Observation id
title	M31 MONITORING (FOLLOWUP)	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 TRANSIENT TBD	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.67	Observer's specified target RA [deg]
dec_targ	40.865	Observer's specified target Dec [deg]
ra_nom	10.658158158092	Nominal RA [deg]
dec_nom	40.878372591098	Nominal Dec [deg]
roll_nom	162.8876000741	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6053.2924094945	Sum of GTIs [s]
livetime	5976.6419761504	Livetime [s]
ontime2	6053.3334494978	Sum of GTIs [s]
ontime3	6053.1692894995	Sum of GTIs [s]
ontime5	6053.2513694912	Sum of GTIs [s]
ontime6	6053.2103295028	Sum of GTIs [s]
ontime7	6053.2924094945	Sum of GTIs [s]
ontime8	6053.1282494962	Sum of GTIs [s]
l2events	58135	Number of level 2 events



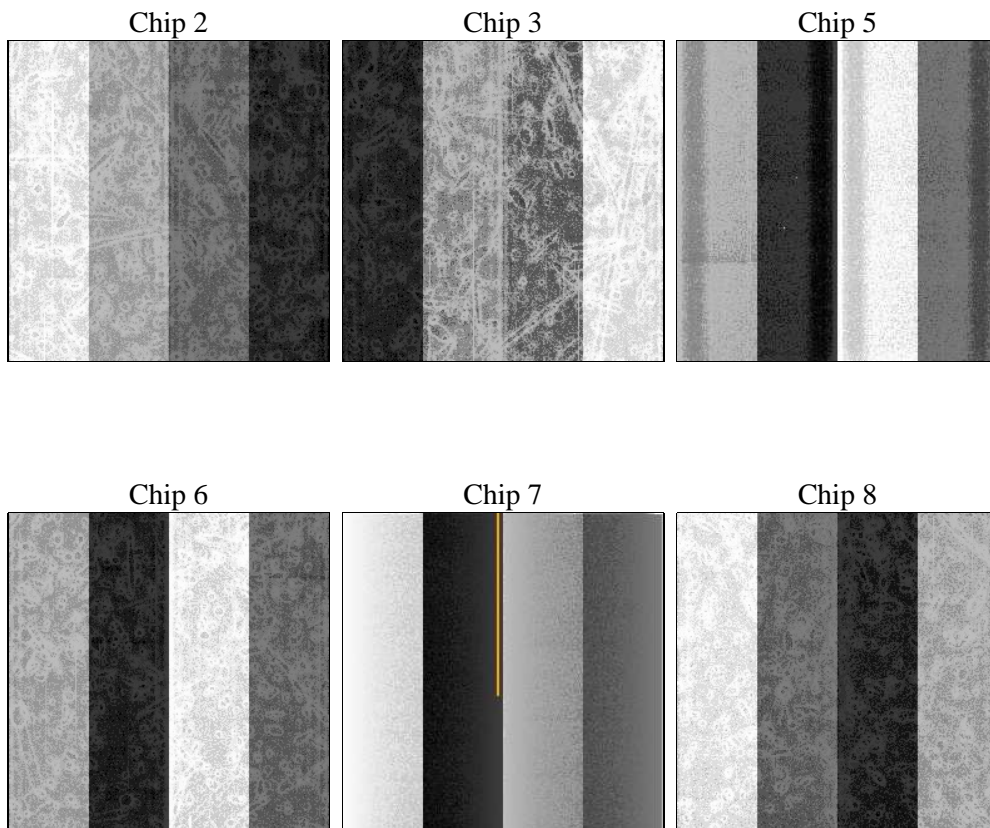
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6053.2924094945	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	6053.3334494978	Sum of GTIs [s]
date	2012-09-05T11:50:49	Date and time of file creation	ontime3	6053.1692894995	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6053.2513694912	Sum of GTIs [s]
			ontime6	6053.2103295028	Sum of GTIs [s]
			ontime7	6053.2924094945	Sum of GTIs [s]
			ontime8	6053.1282494962	Sum of GTIs [s]
			l1events	245289	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	37627	33821	47853	36010	47220	42758	grade 0 events	2243	1727	2162	1830	2591	2590
rejected events	32924	29913	25420	31781	25350	34881		5%	5%	4%	5%	5%	6%
rejected %	87%	88%	53%	88%	53%	81%	grade 1 events	11	14	54	10	56	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	959	765	6556	852	4416	1610
								2%	2%	13%	2%	9%	3%
							grade 3 events	392	373	984	361	2072	944
								1%	1%	2%	1%	4%	2%
							grade 4 events	368	355	1011	401	2014	887
								0%	1%	2%	1%	4%	2%
							grade 5 events	1166	1209	3543	1338	4194	1672
								3%	3%	7%	3%	8%	3%
							grade 6 events	748	689	11730	788	10785	1849
								1%	2%	24%	2%	22%	4%
							grade 7 events	31740	28689	21813	30430	21092	33181
								84%	84%	45%	84%	44%	77%

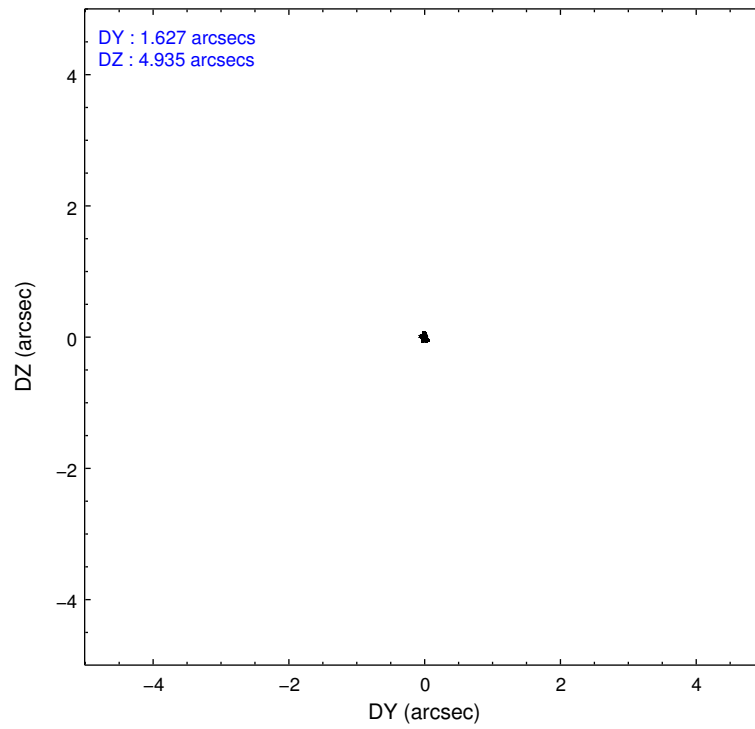
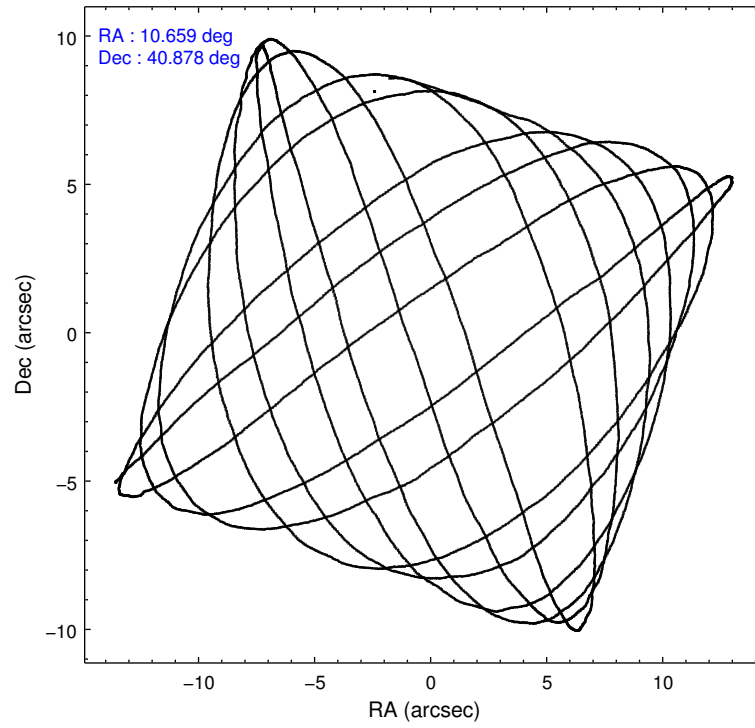


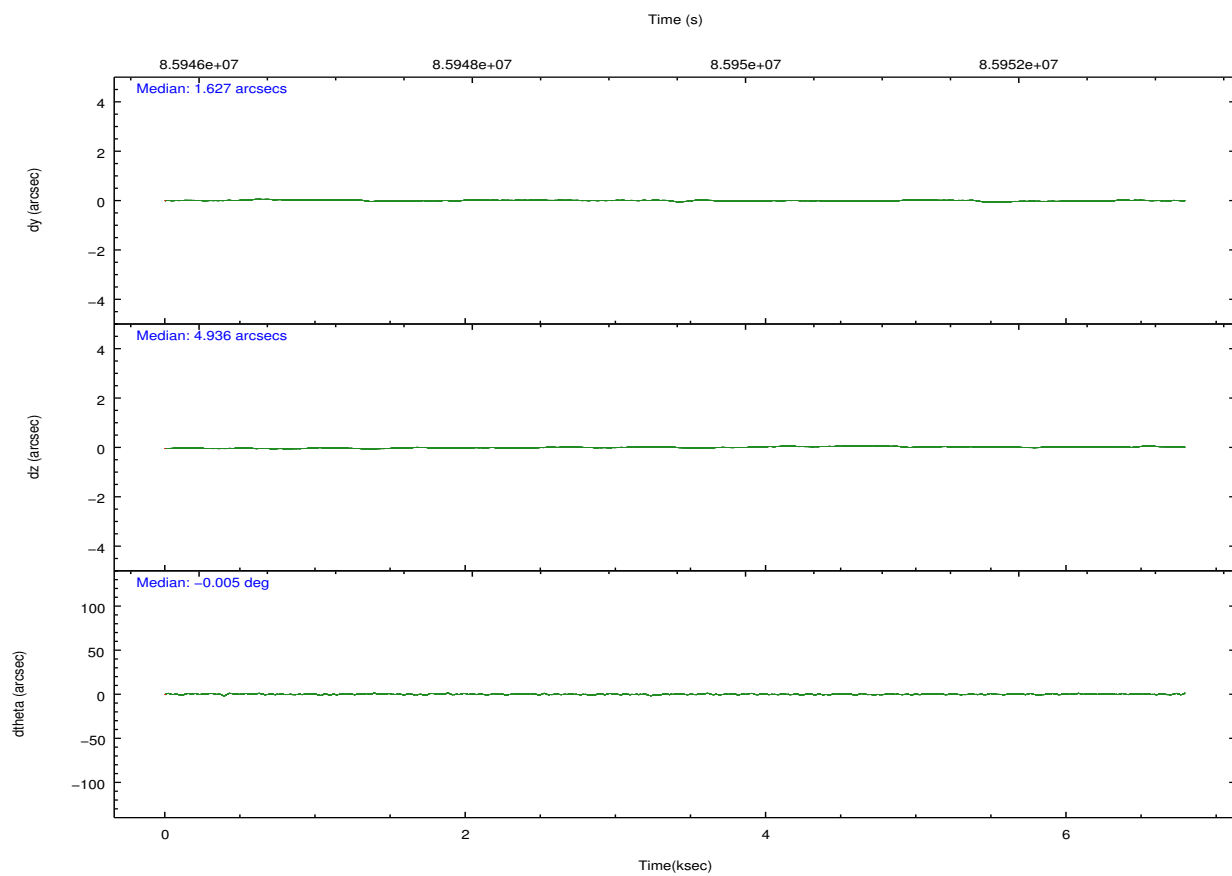
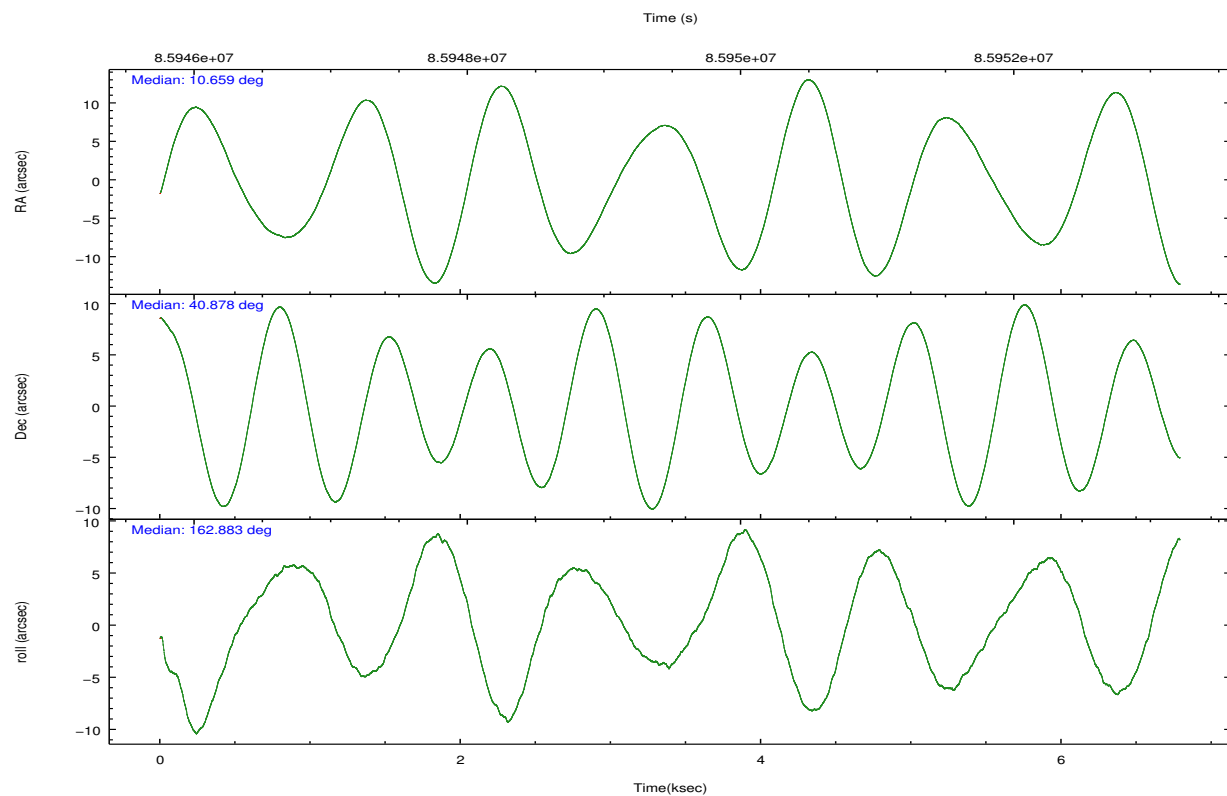
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	10.693313	10.65815815809172
[deg] Pointing Dec	40.884651	40.87837259109786
[deg] Pointing Roll	162.707959	162.8876000740981
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	85946779.184000	85945574.39393499
Observation start date	2000-09-21T18:05:15	2000-09-21T17:46:14
[s] Observation end time (MET)	85952879.184000	85953522.244234
Observation end date	2000-09-21T19:46:55	2000-09-21T19:58:42
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



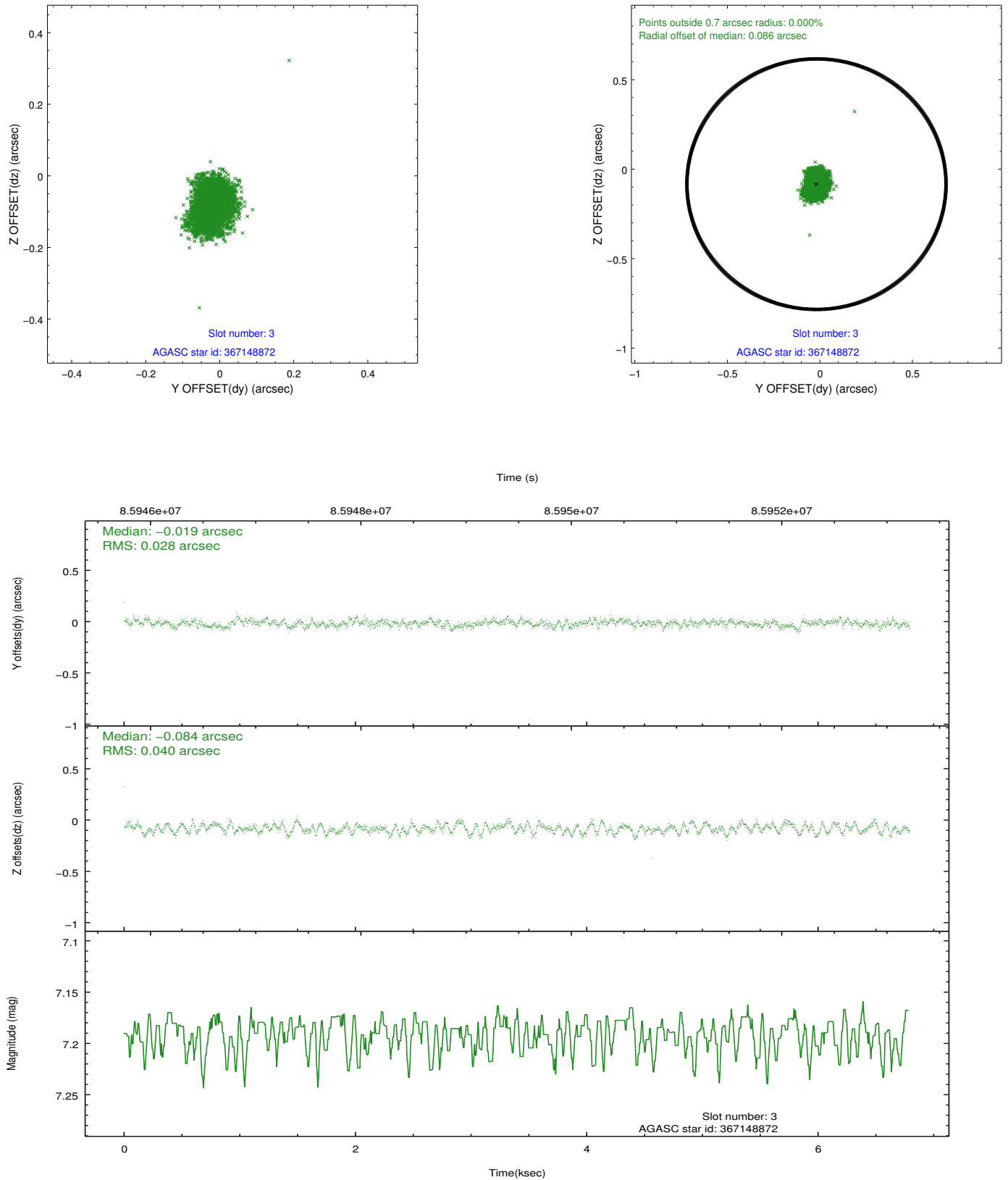


### Slot Statistics

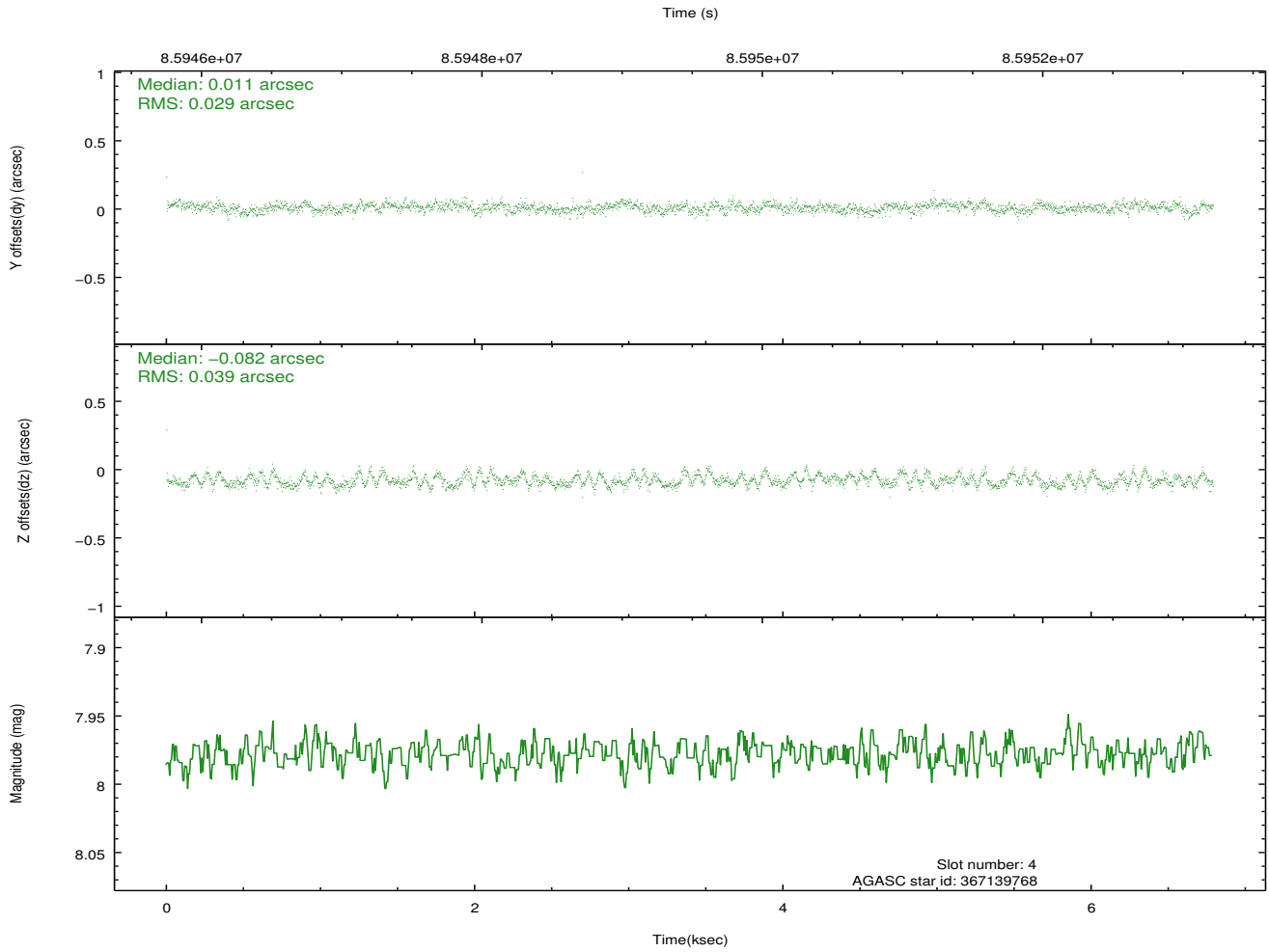
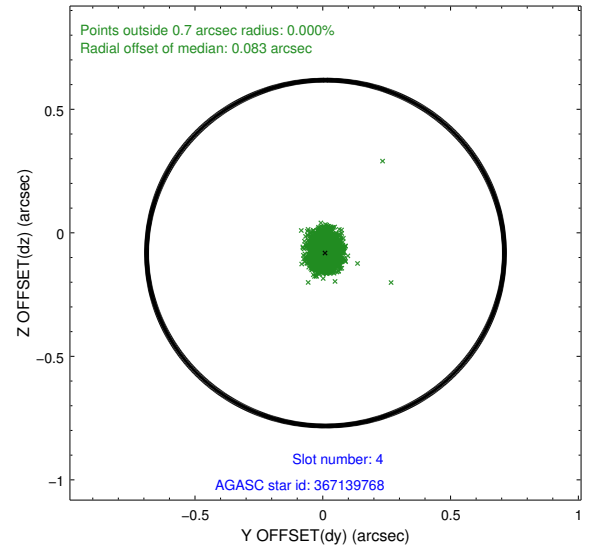
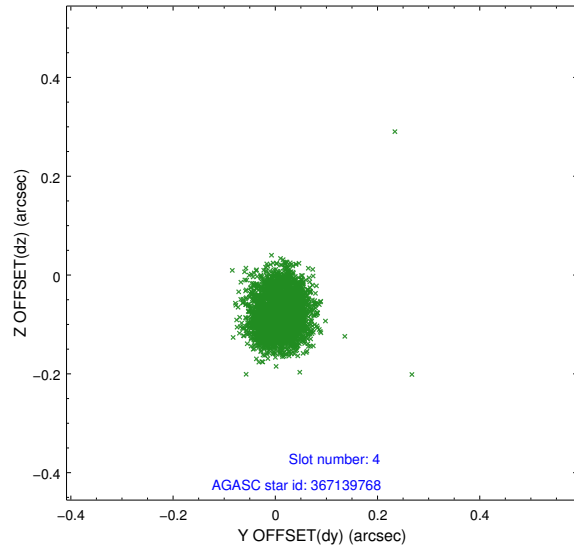
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.21	1657	-0.017	-0.005	0.006	0.010	0.000000	0.000000	2159.10	182.64
1	FID	ACIS-S-5	7.24	1656	0.005	0.001	0.006	0.011	0.000000	0.000000	-1805.97	176.16
2	FID	ACIS-S-6	7.36	1656	-0.017	0.019	0.007	0.012	0.000000	0.000000	406.43	819.95
3	GUIDE	367148872	7.19	3312	-0.019	-0.084	0.053	0.083	10.505940	40.688258	280.24	826.48
4	GUIDE	367139768	7.98	3313	0.011	-0.082	0.051	0.081	11.069715	40.685175	-1191.88	378.16
5	GUIDE	365439720	8.48	3313	-0.024	-0.074	0.052	0.085	9.704623	40.431022	2107.42	2350.18
6	GUIDE	367146616	8.85	3308	0.118	0.132	0.065	0.102	11.418645	41.190163	-1544.04	-1641.36
7	GUIDE	367658664	9.60	3309	-0.085	0.106	0.078	0.128	10.374070	41.369746	1344.58	-1412.93

## 2.4 Star Slots

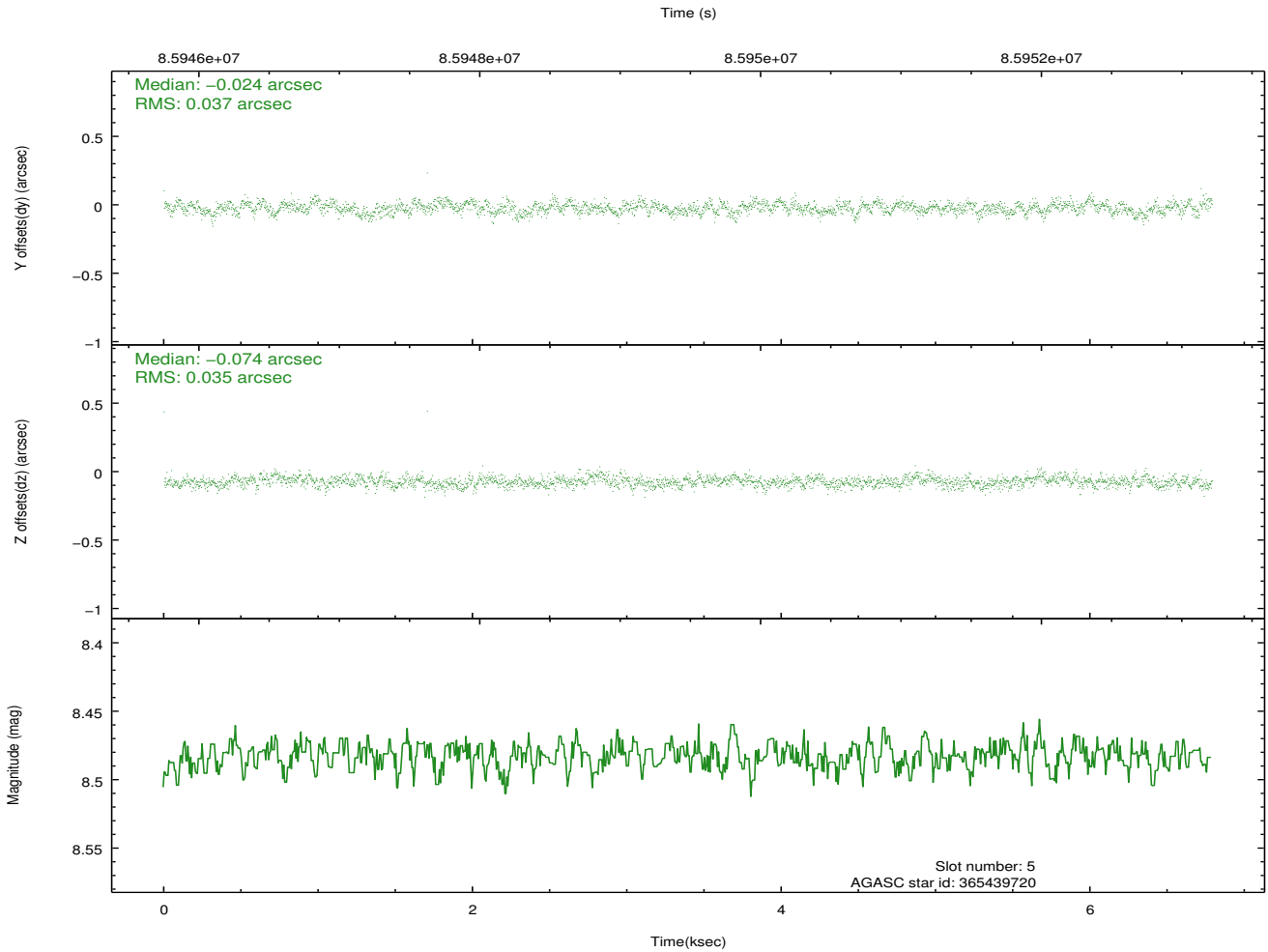
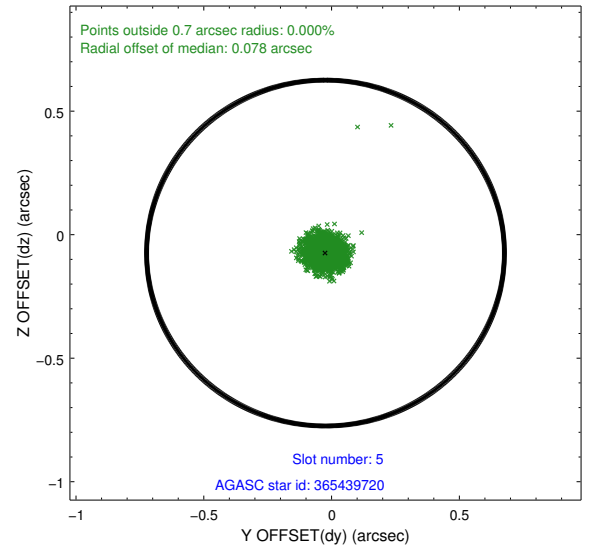
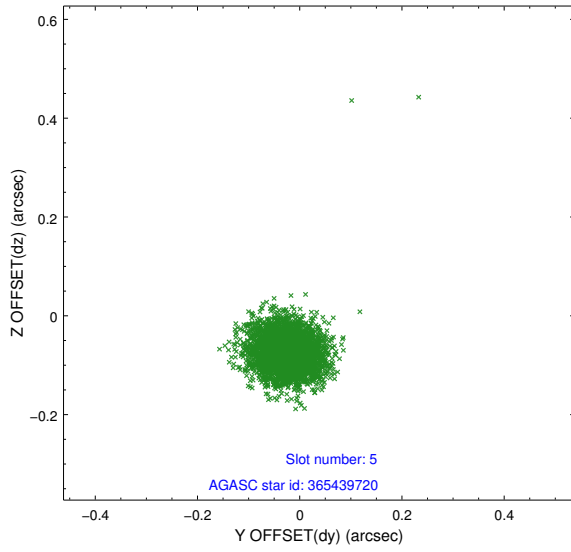
### 2.4.1 Slot 3



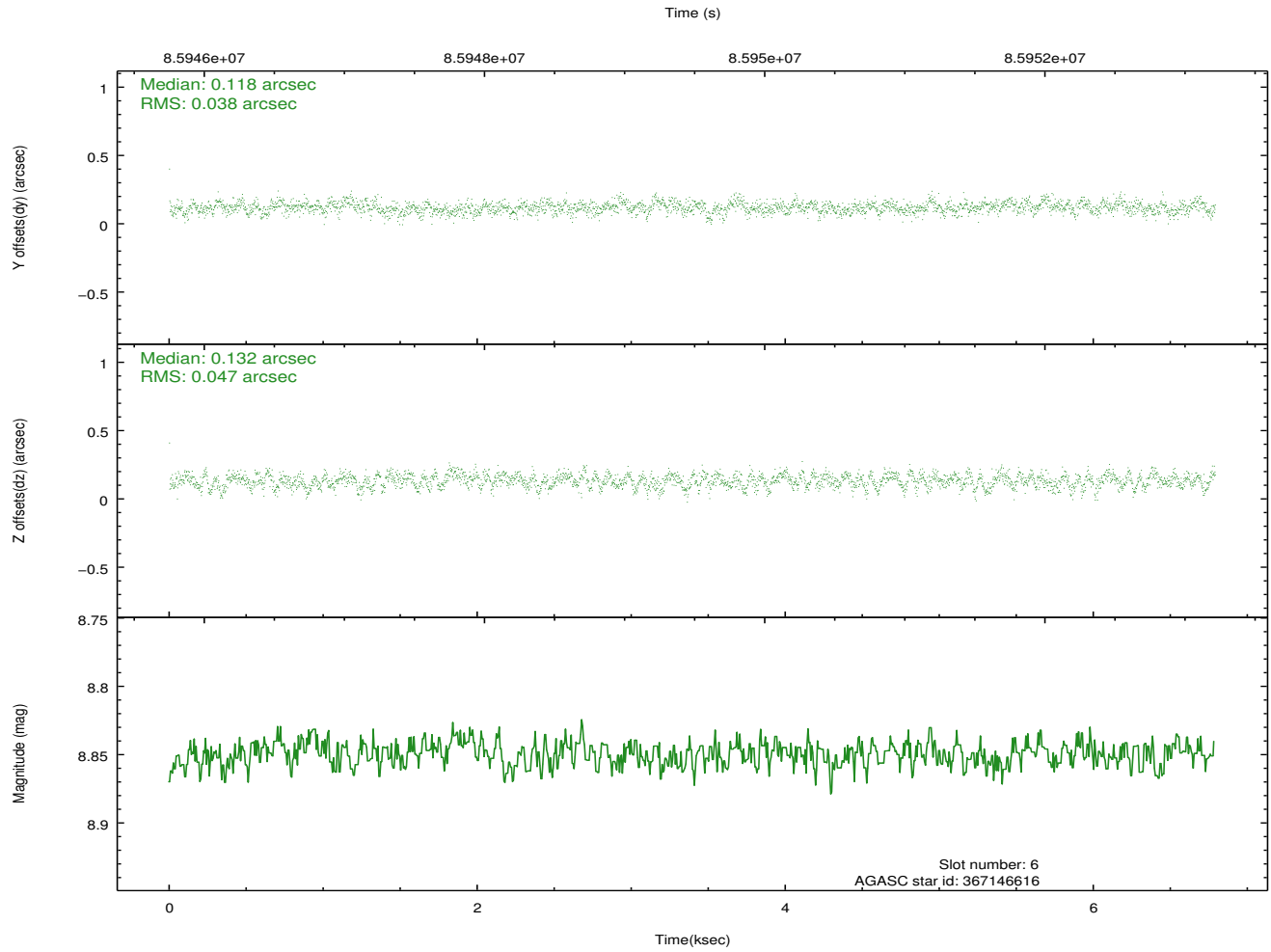
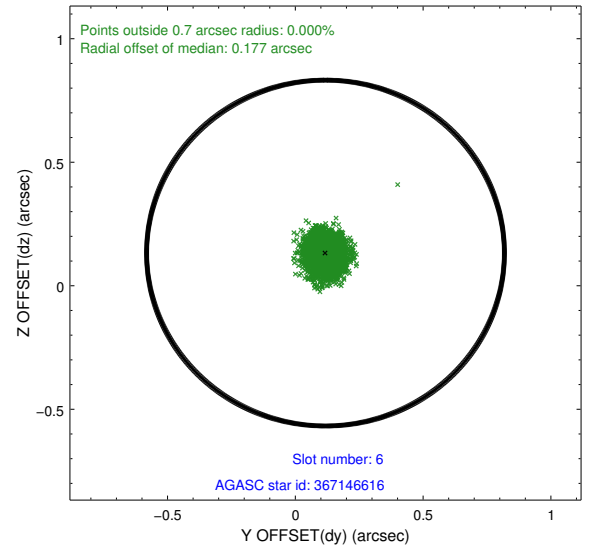
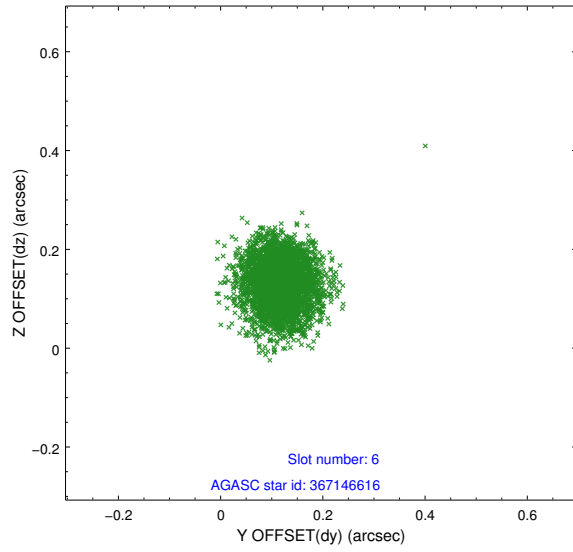
## 2.4.2 Slot 4



### 2.4.3 Slot 5

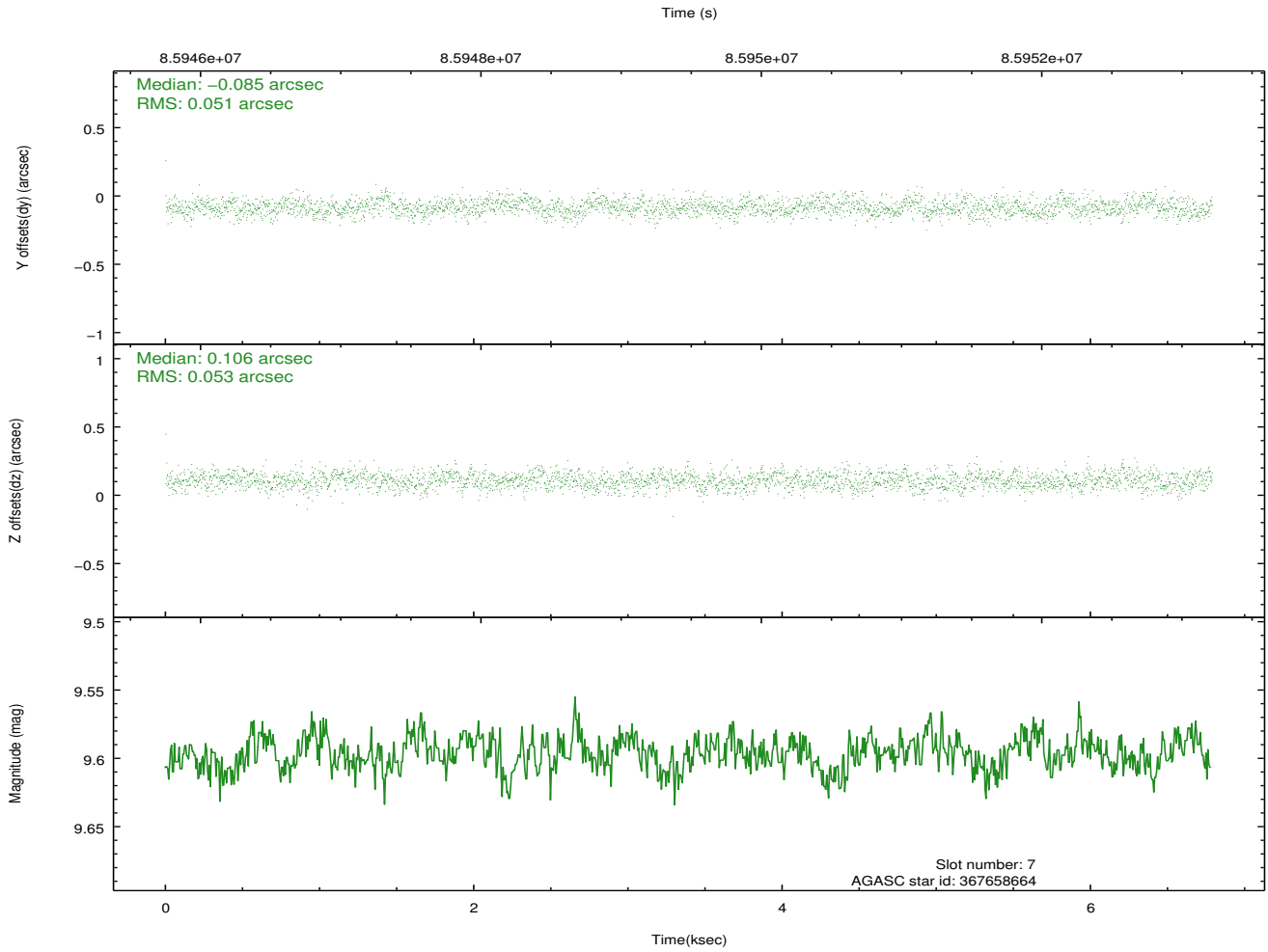
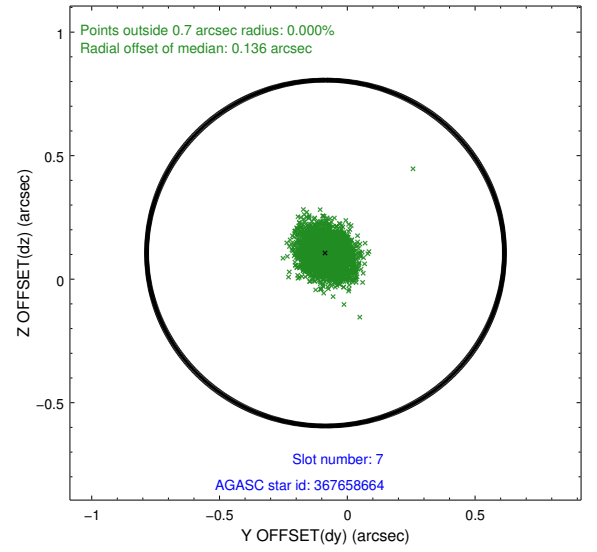
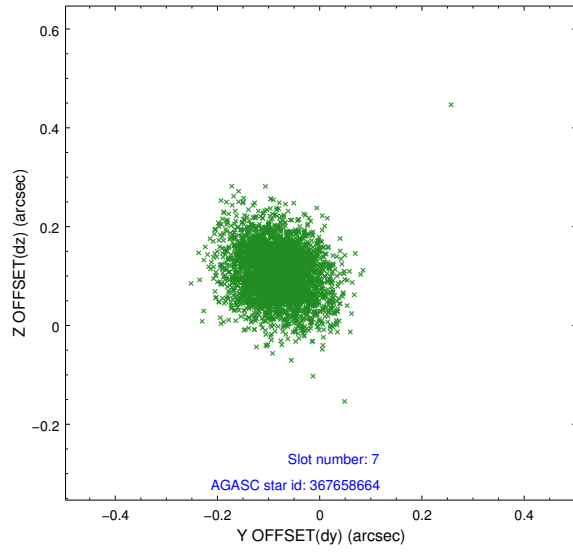


## 2.4.4 Slot 6



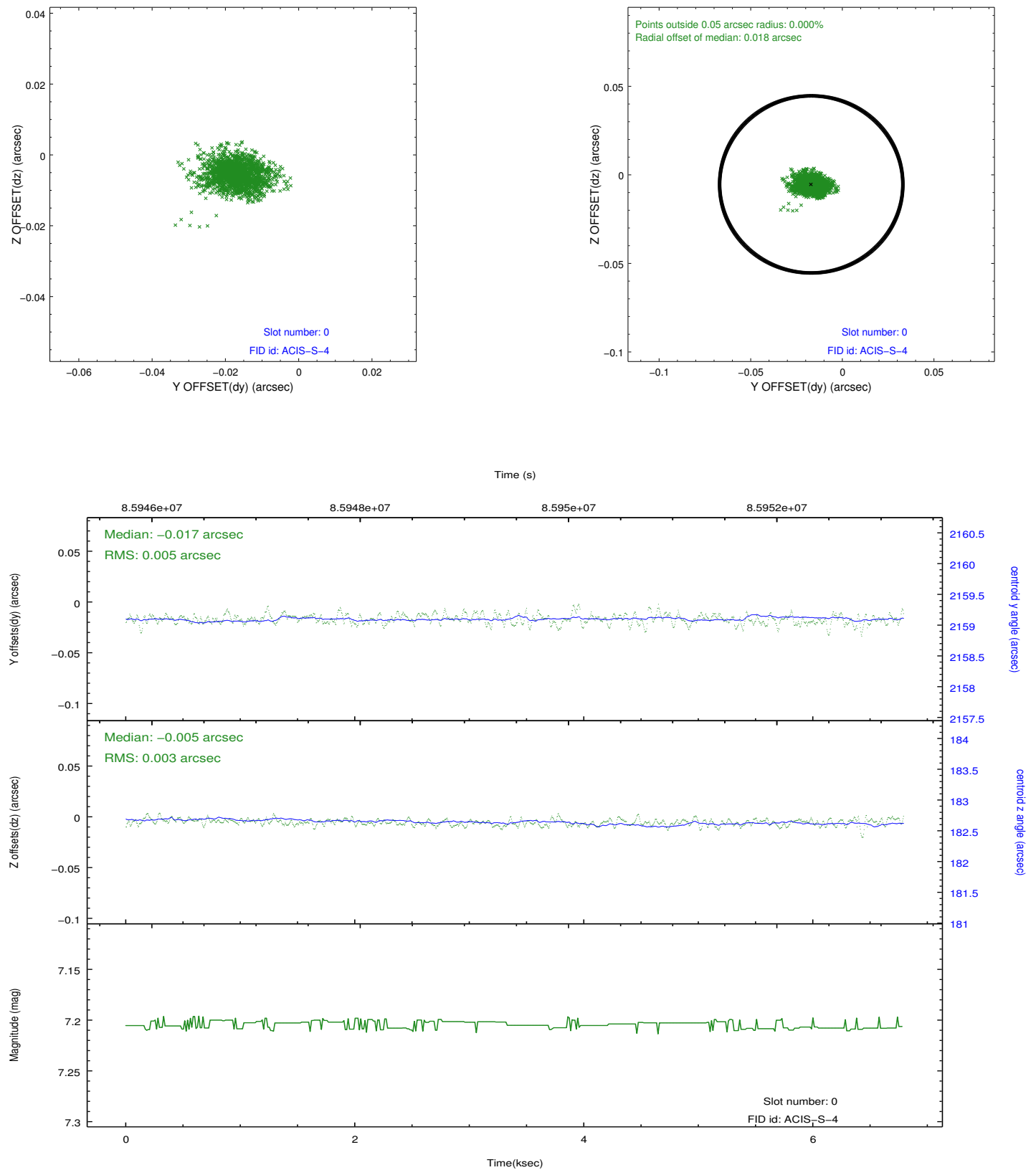


## 2.4.5 Slot 7

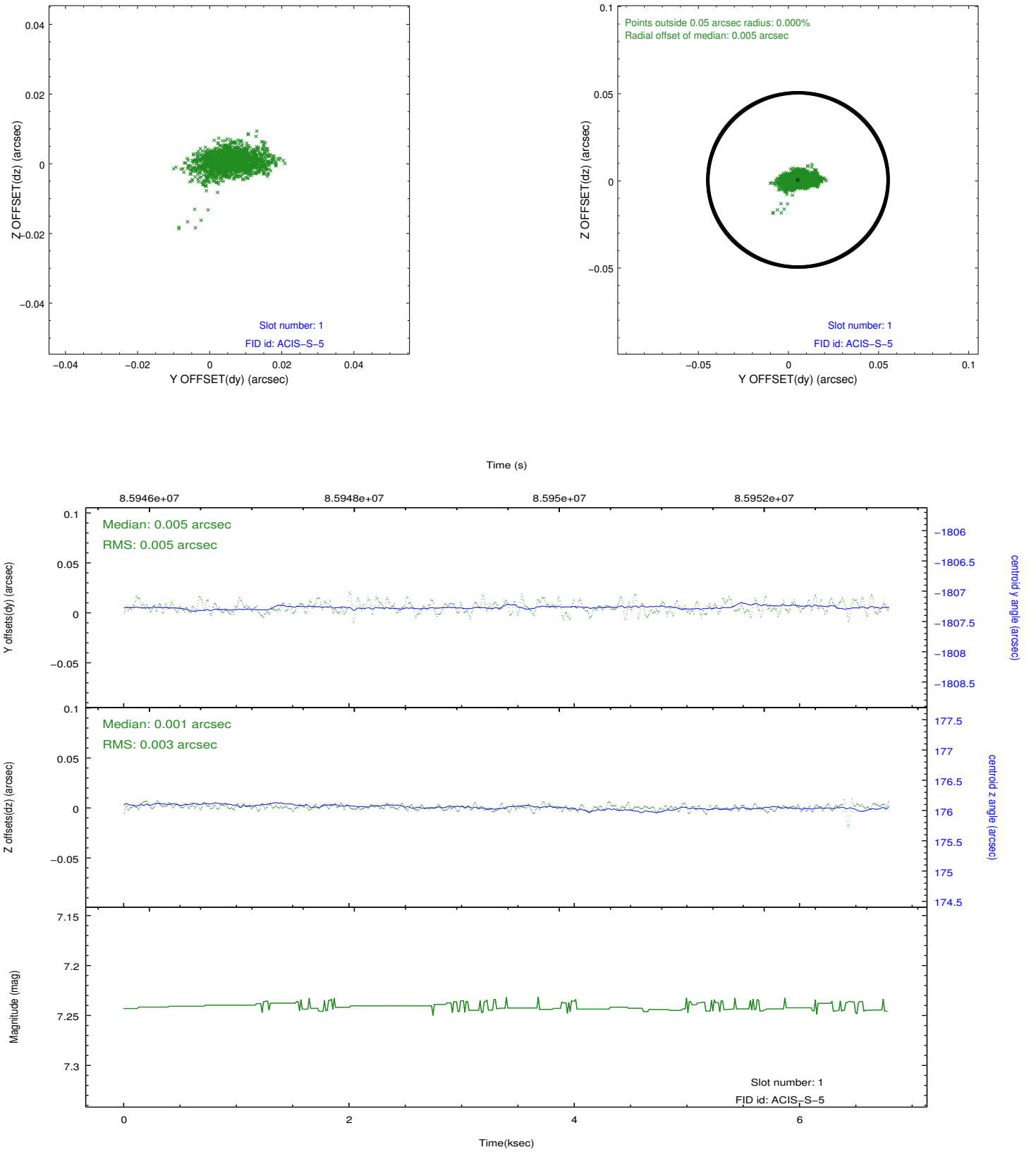


## 2.5 FID Slots

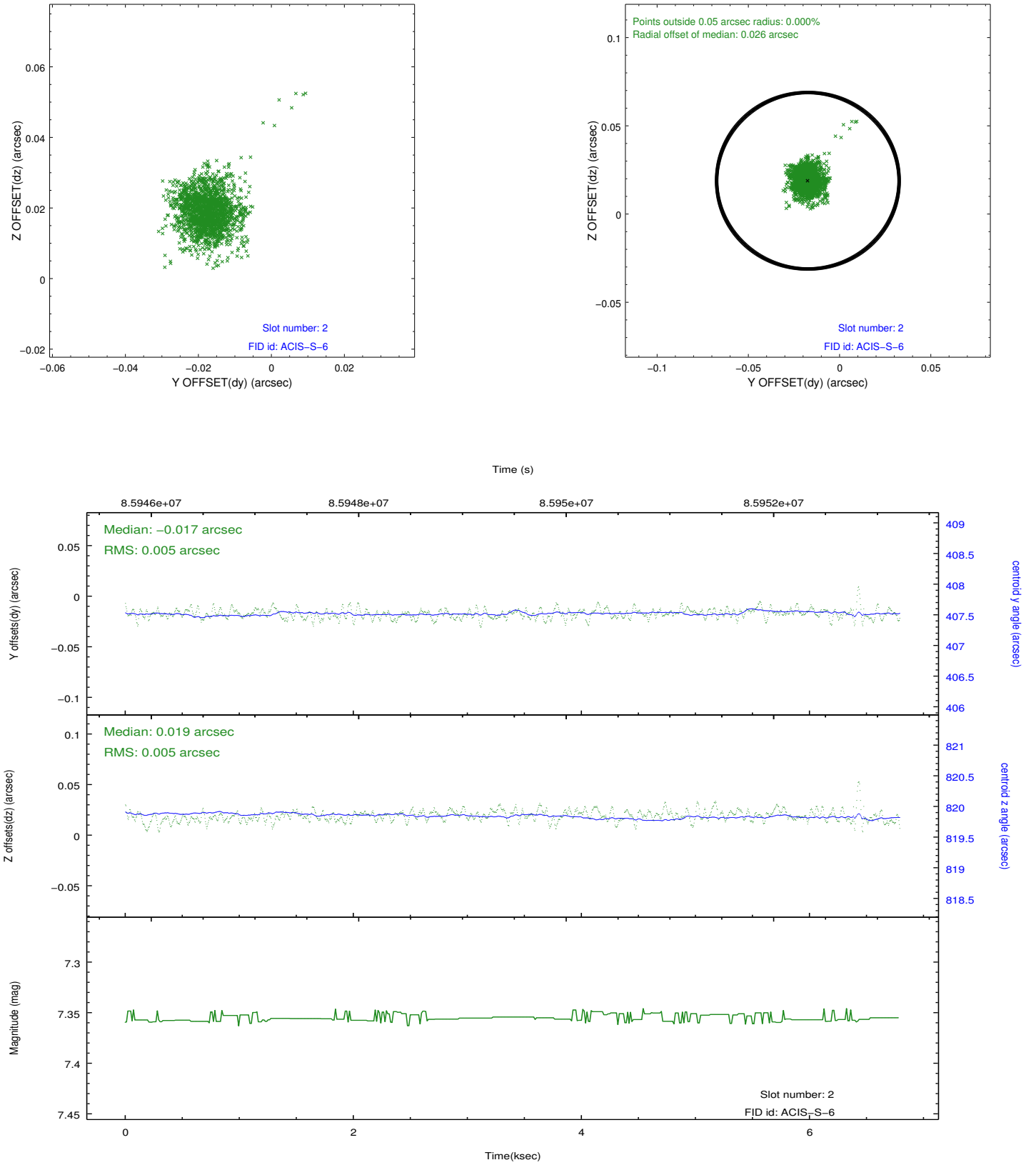
### 2.5.1 Slot 0



## 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)	2012.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.054

### A.2 Comments