

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11882 - L2 Version 2  
Chandra X-Ray Center

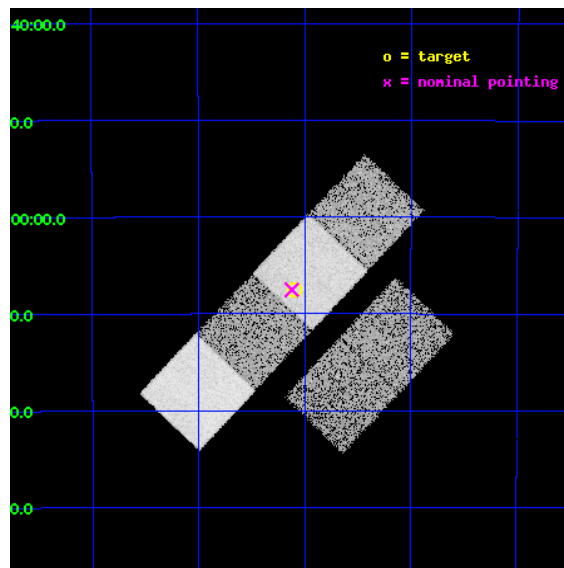
L2 Processing Date : Jun 28 2012

## 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

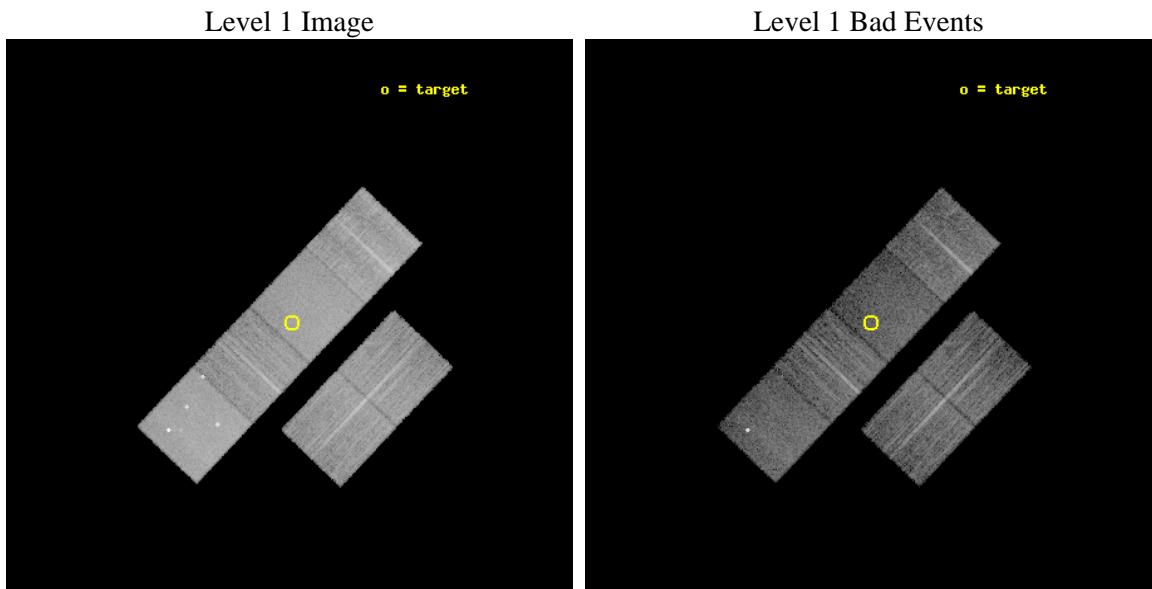
seq_num	900933	Sequence number
obs_id	11882	Observation id
title	GTO ChIcAGO: Chandra Identification of ASCA Galactic Objects	Propo
observer	Dr. Stephen Murray	Principal investigator
object	AX J165901-4208	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.77375	Observer's specified target RA [deg]
dec_targ	-42.124222	Observer's specified target Dec [deg]
ra_nom	254.78007226277	Nominal RA [deg]
dec_nom	-42.125419230349	Nominal Dec [deg]
roll_nom	313.52923637183	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9665.9387845993	Sum of GTIs [s]
livetime	9543.5428475791	Livetime [s]
ontime2	9665.9798246026	Sum of GTIs [s]
ontime3	9665.8156645894	Sum of GTIs [s]
ontime5	9665.897744596	Sum of GTIs [s]
ontime6	9665.8567045927	Sum of GTIs [s]
ontime7	9665.9387845993	Sum of GTIs [s]
ontime8	9665.7746245861	Sum of GTIs [s]
l2events	120575	Number of level 2 events



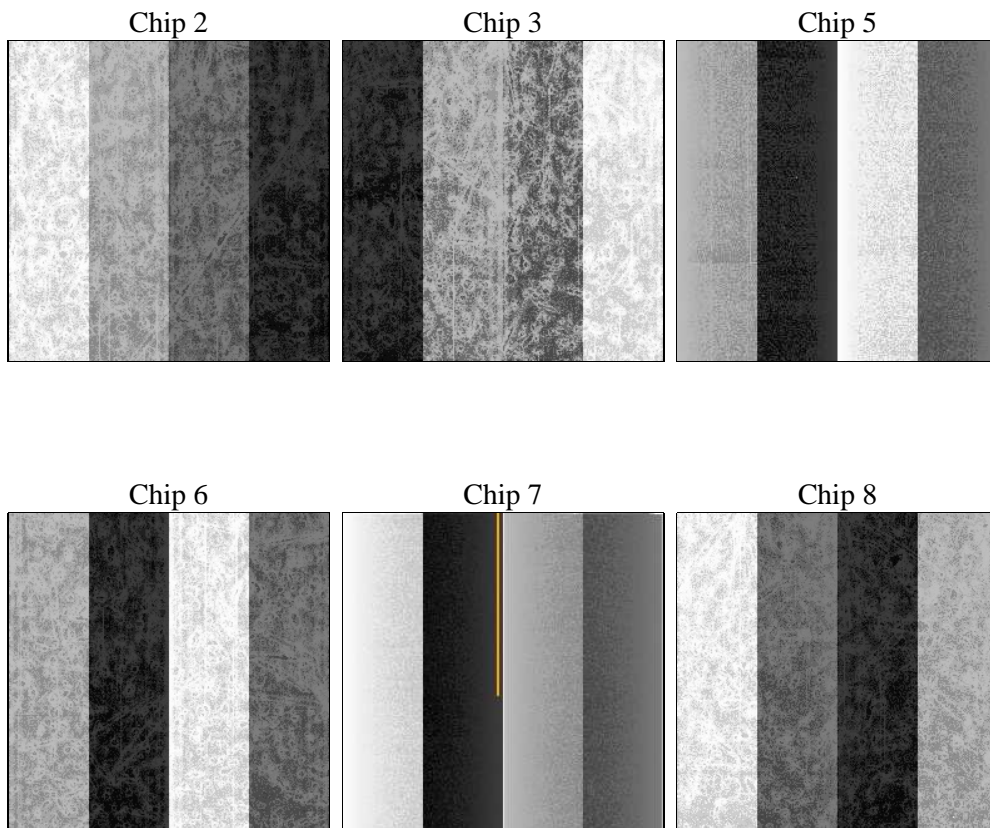
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9617.735000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9665.9387845993	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime2	9665.9798246026	Sum of GTIs [s]
date	2012-06-28T21:23:32	Date and time of file creation	ontime3	9665.8156645894	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9665.897744596	Sum of GTIs [s]
			ontime6	9665.8567045927	Sum of GTIs [s]
			ontime7	9665.9387845993	Sum of GTIs [s]
			ontime8	9665.7746245861	Sum of GTIs [s]
			l1events	518308	Number of level 1 events

### 2.1.4 Events

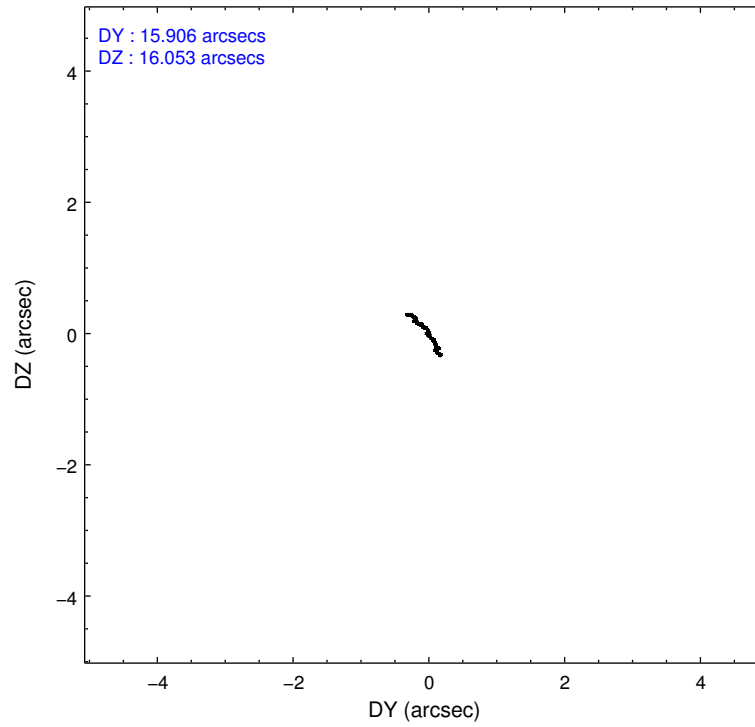
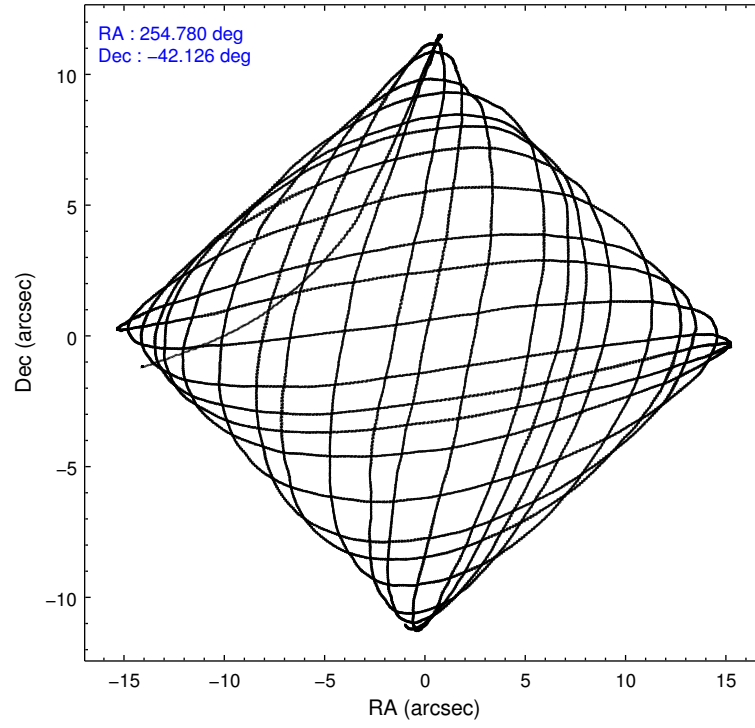
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	76054	71290	114447	71793	88767	95957	grade 0 events	2876	2759	6714	3124	3765	7638
rejected events	68188	63845	57523	63231	48314	70627		3%	3%	5%	4%	4%	7%
rejected %	89%	89%	50%	88%	54%	73%	grade 1 events	53	49	263	41	113	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	1946	1683	17164	1846	8247	5885
								2%	2%	14%	2%	9%	6%
							grade 3 events	747	787	2217	945	3655	2670
								0%	1%	1%	1%	4%	2%
							grade 4 events	837	757	2062	850	3677	2486
								1%	1%	1%	1%	4%	2%
							grade 5 events	2758	3292	9404	3330	9538	4856
								3%	4%	8%	4%	10%	5%
							grade 6 events	1466	1462	28798	1807	21133	6672
								1%	2%	25%	2%	23%	6%
							grade 7 events	65371	60501	47825	59850	38639	65672
								85%	84%	41%	83%	43%	68%

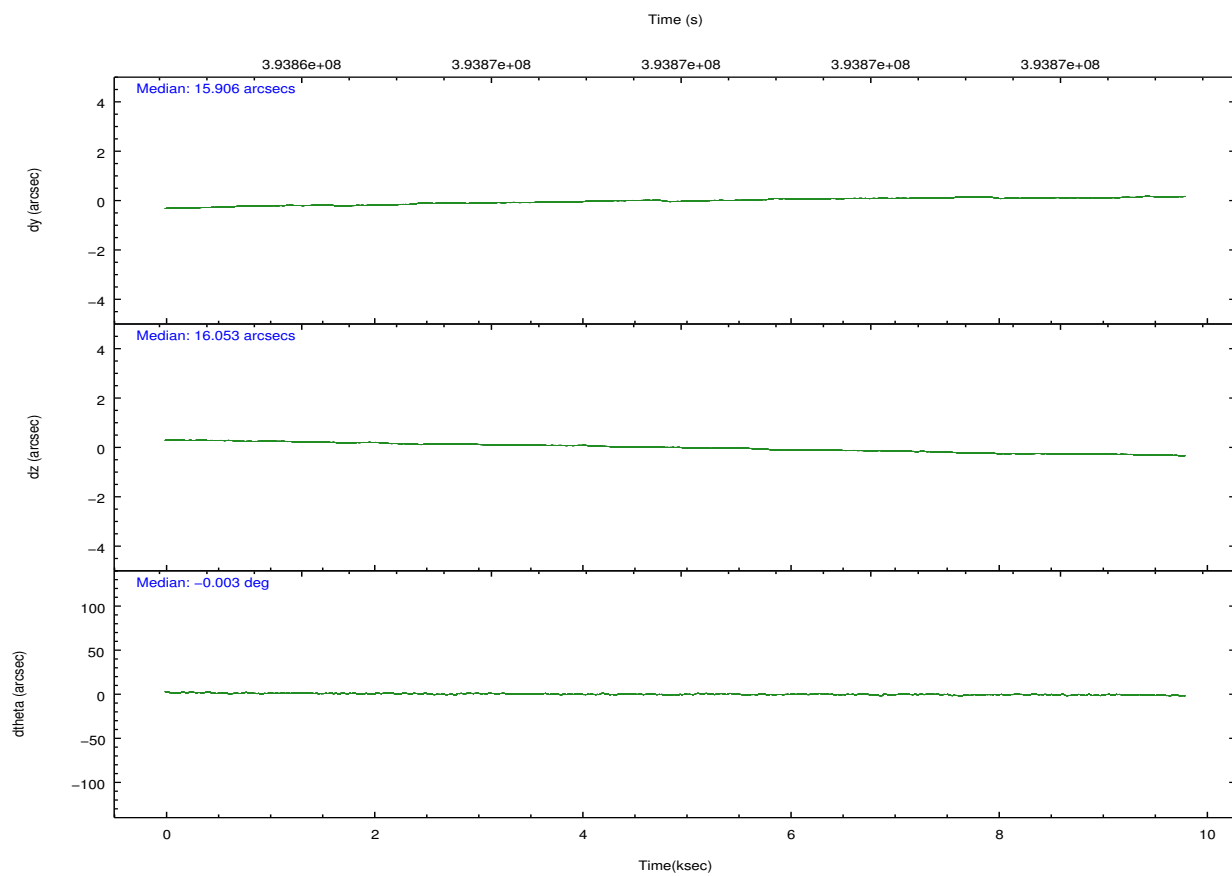
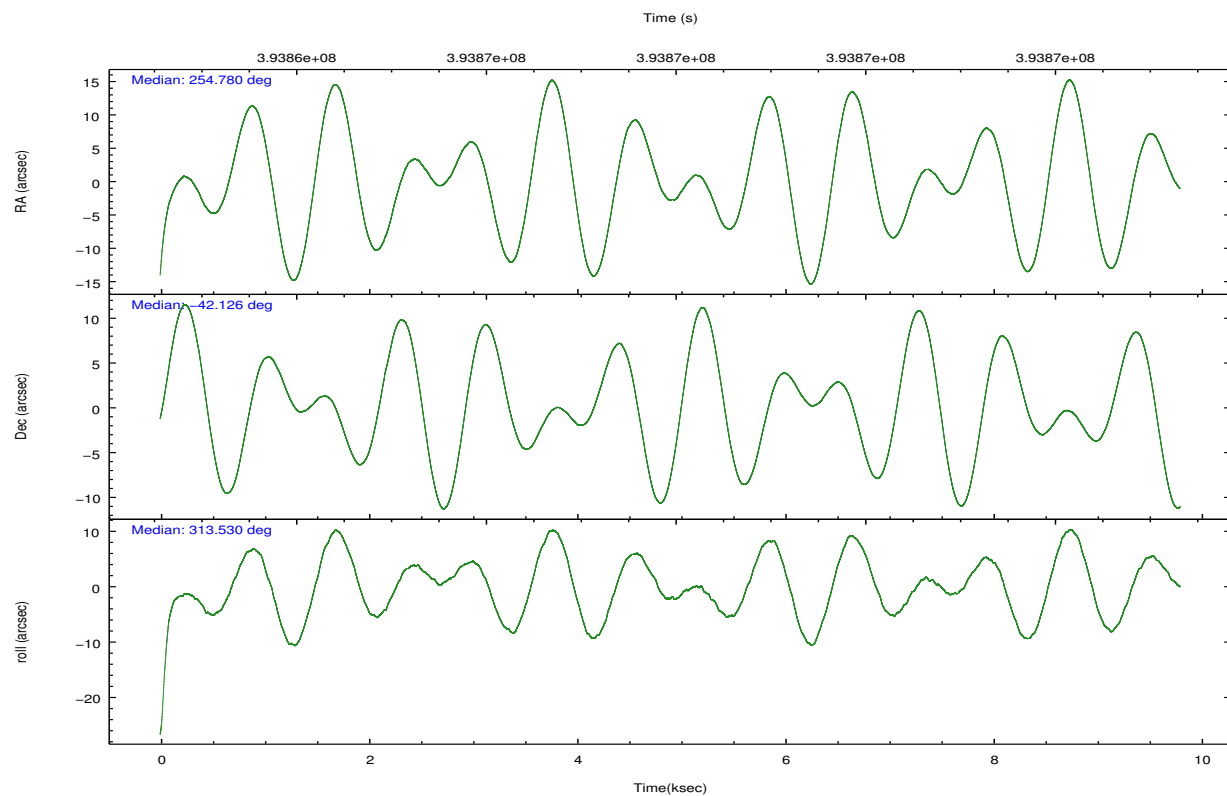


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	254.744591	254.7800722627661	CCD I2 on	O2	Y
[deg] Pointing Dec	-42.118060	-42.12541923034891	CCD I3 on	O3	Y
[deg] Pointing Roll	313.348827	313.5292363718282	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	393863208.184000	393862097.35722	CCD S5 on	N	N
Observation start date	2010-06-25T14:25:42	2010-06-25T14:08:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	393872826.184000	393873051.02028	On-chip summing requested	N	N
Observation end date	2010-06-25T17:06:00	2010-06-25T17:10:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



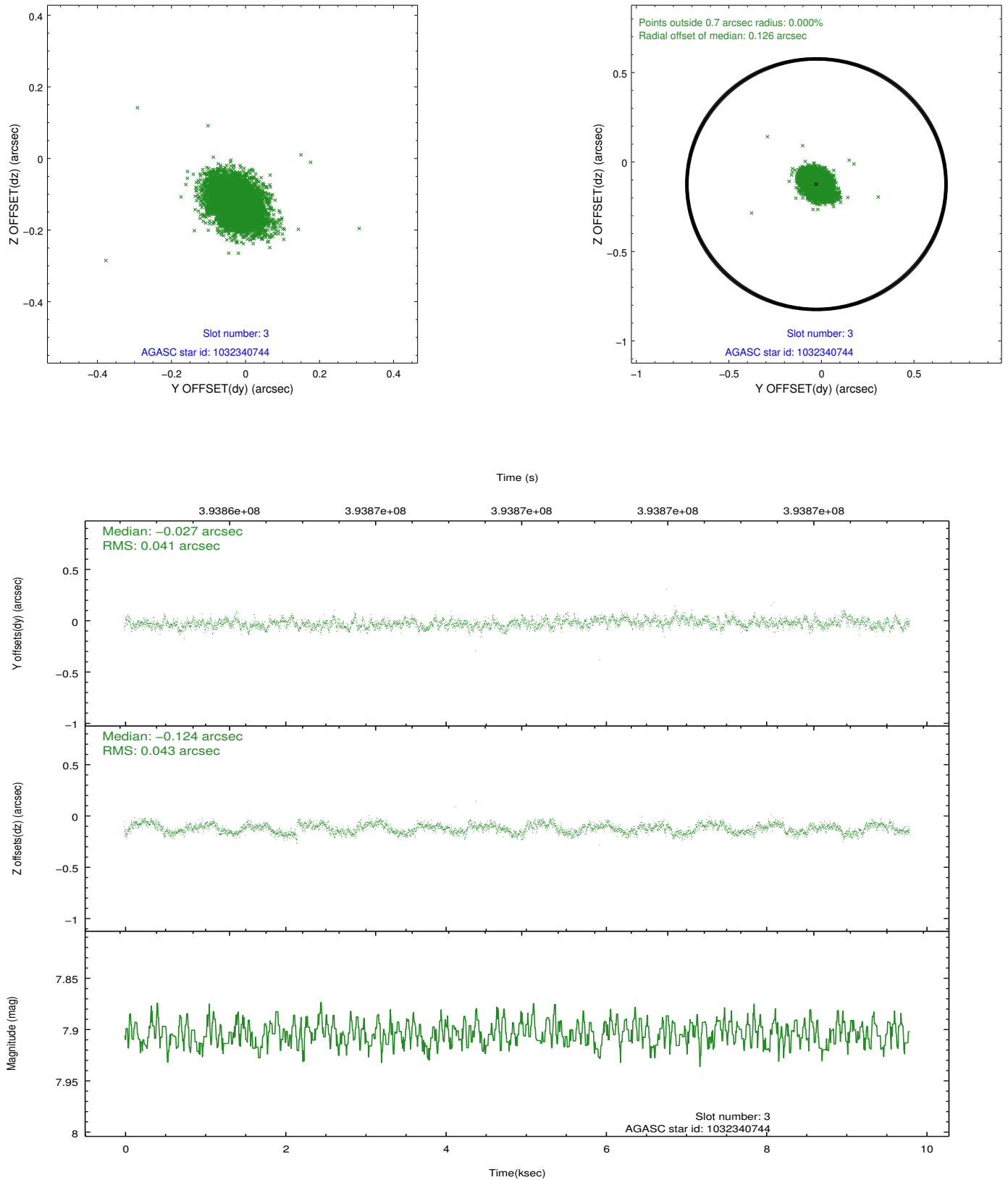


### Slot Statistics

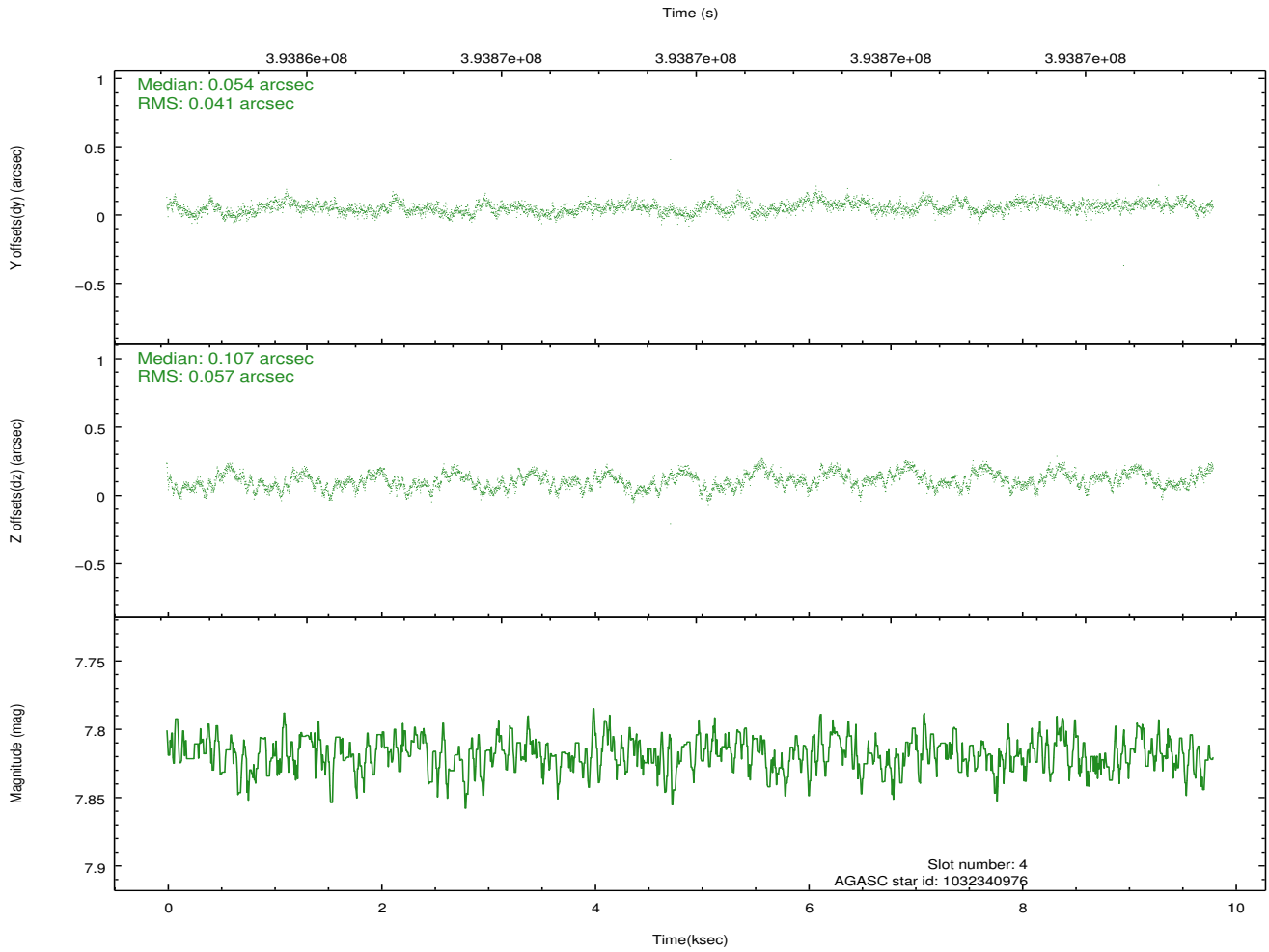
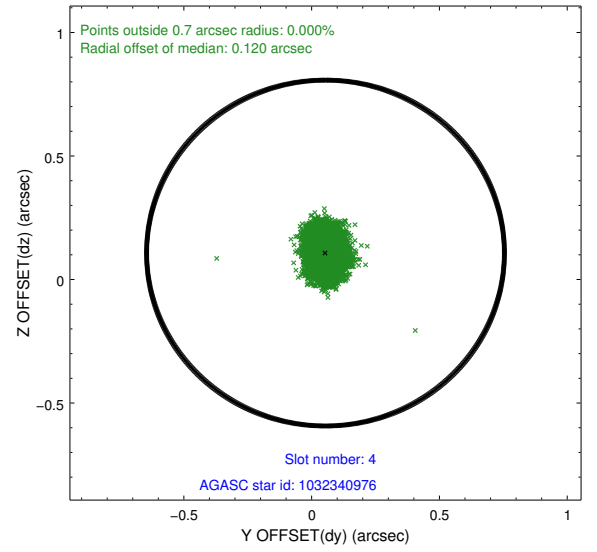
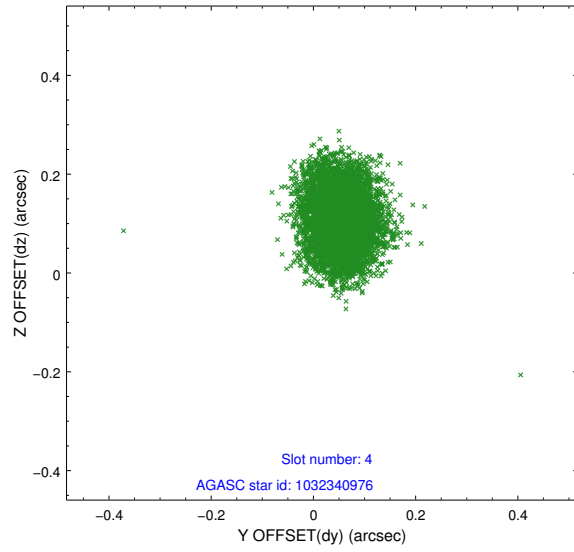
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	2390	-0.105	-0.064	0.010	0.016	0.000000	0.000000	-769.01	-1737.45
1	FID	ACIS-S-4	7.00	2390	0.134	0.049	0.009	0.014	0.000000	0.000000	2144.29	170.54
2	FID	ACIS-S-6	7.13	2390	-0.057	0.022	0.011	0.018	0.000000	0.000000	393.76	808.55
3	GUIDE	1032340744	7.90	4780	-0.027	-0.124	0.063	0.099	254.712738	-41.416040	-1896.86	1672.25
4	GUIDE	1032340976	7.82	4781	0.054	0.107	0.075	0.119	254.202894	-41.913283	-1529.20	-552.02
5	GUIDE	1032341952	7.19	4781	0.013	0.050	0.043	0.070	254.946907	-41.627000	-911.65	1608.95
6	GUIDE	1032454880	7.82	4781	-0.207	-0.140	0.056	0.090	255.805803	-42.215139	2208.82	1805.80
7	GUIDE	1032456032	8.37	4780	0.165	0.104	0.060	0.096	256.011351	-42.138769	2394.39	2391.16

## 2.4 Star Slots

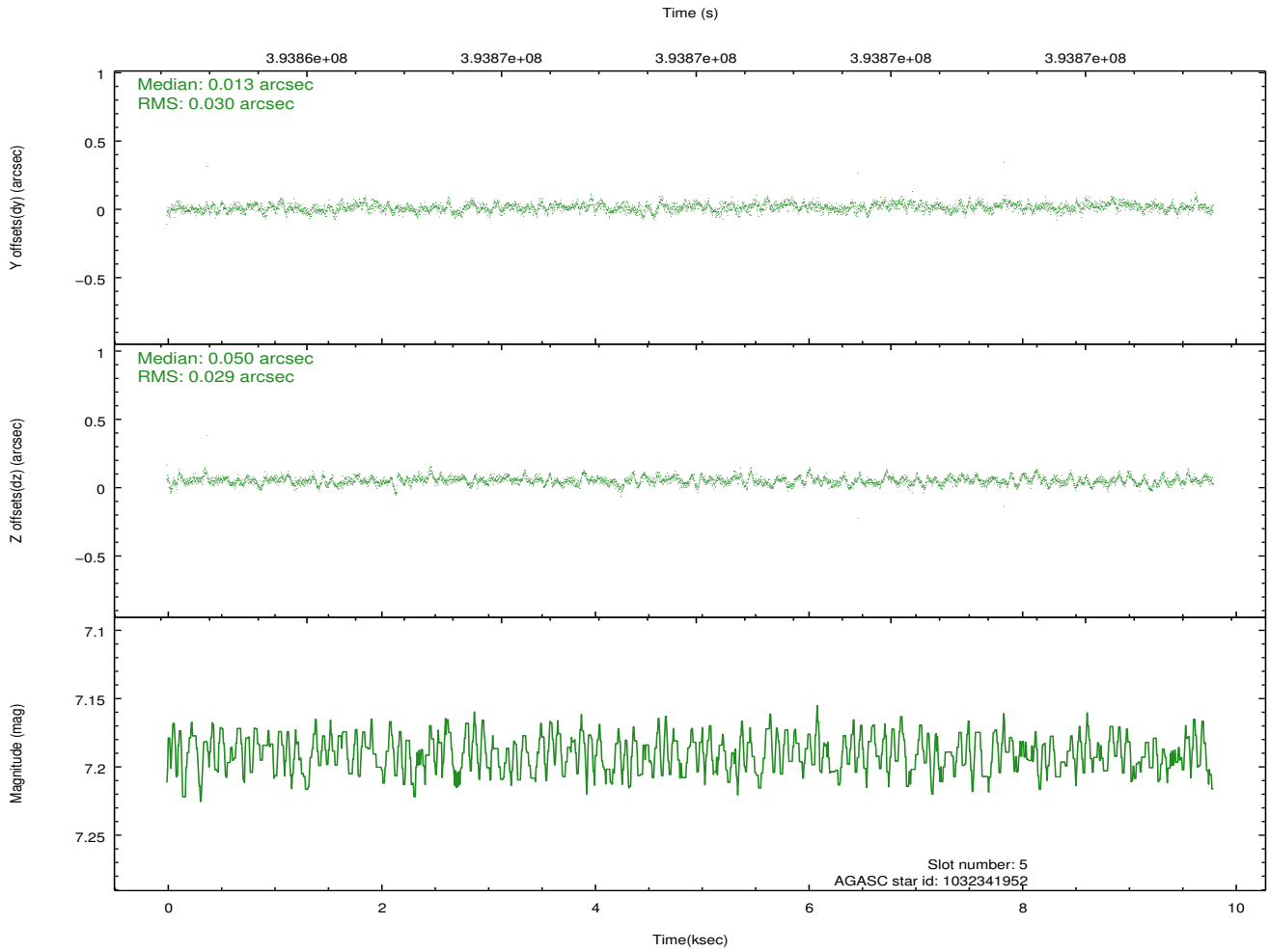
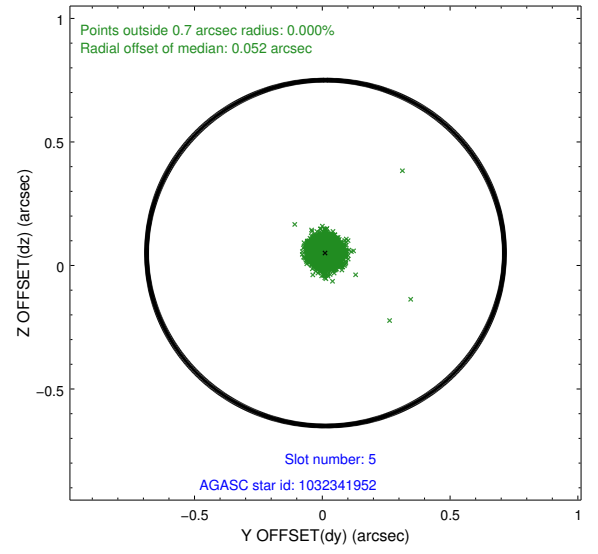
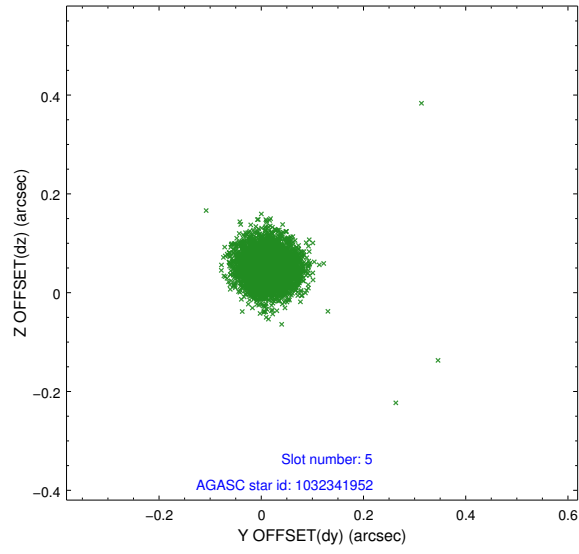
### 2.4.1 Slot 3



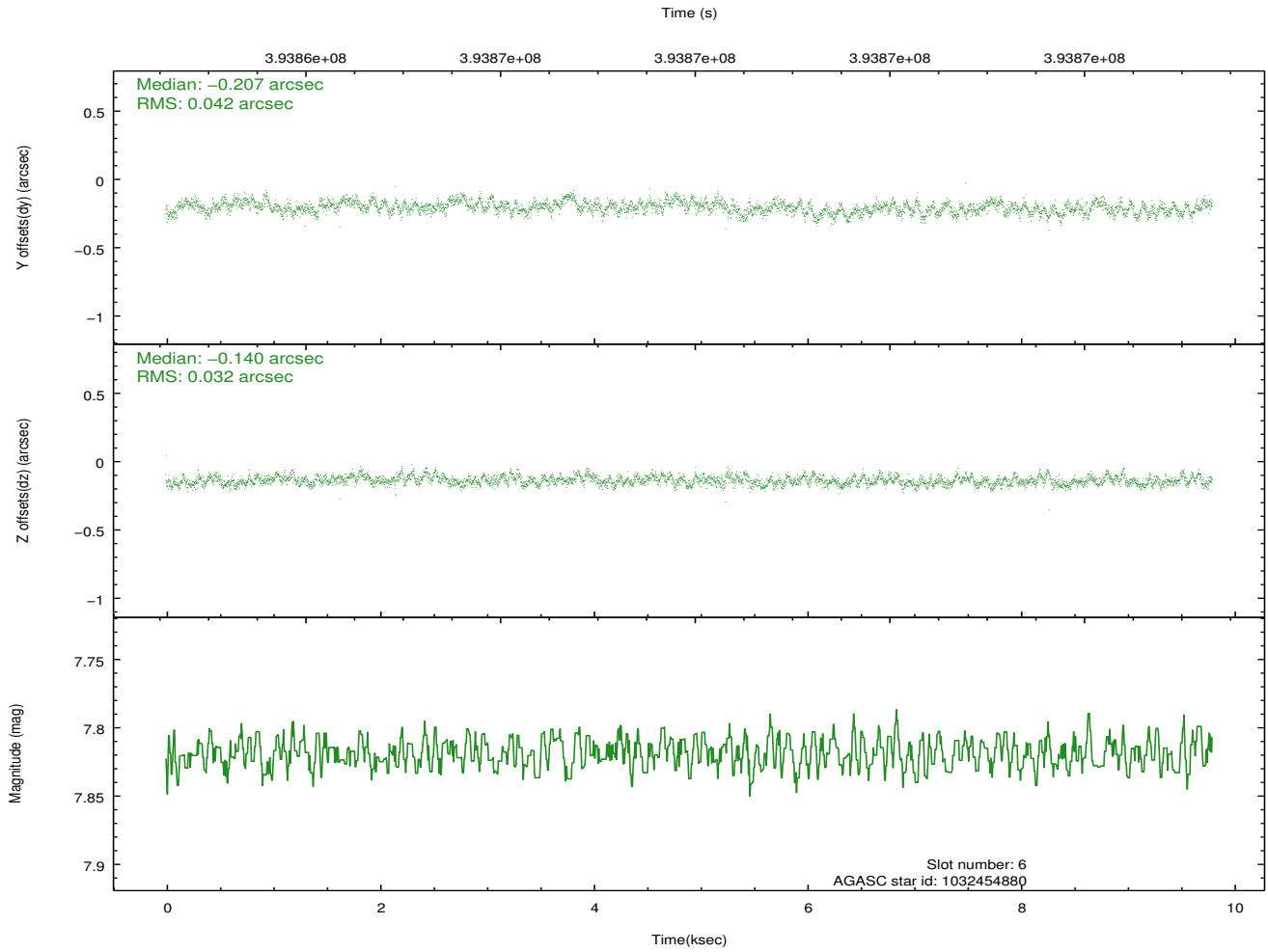
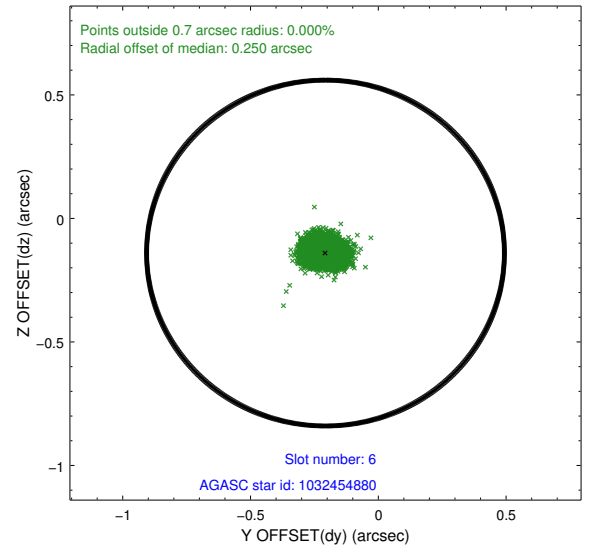
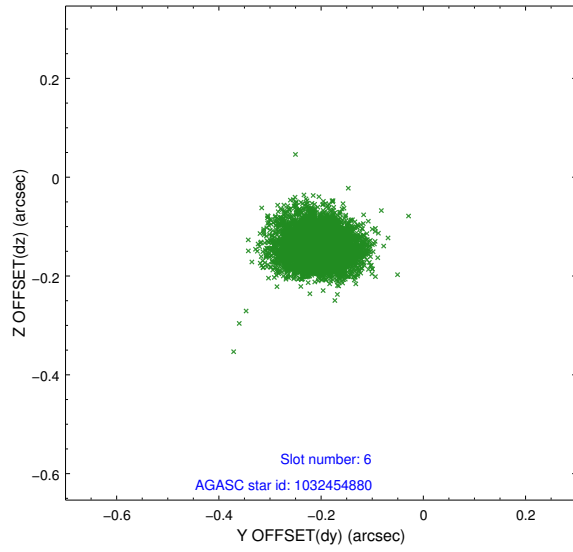
## 2.4.2 Slot 4



### 2.4.3 Slot 5

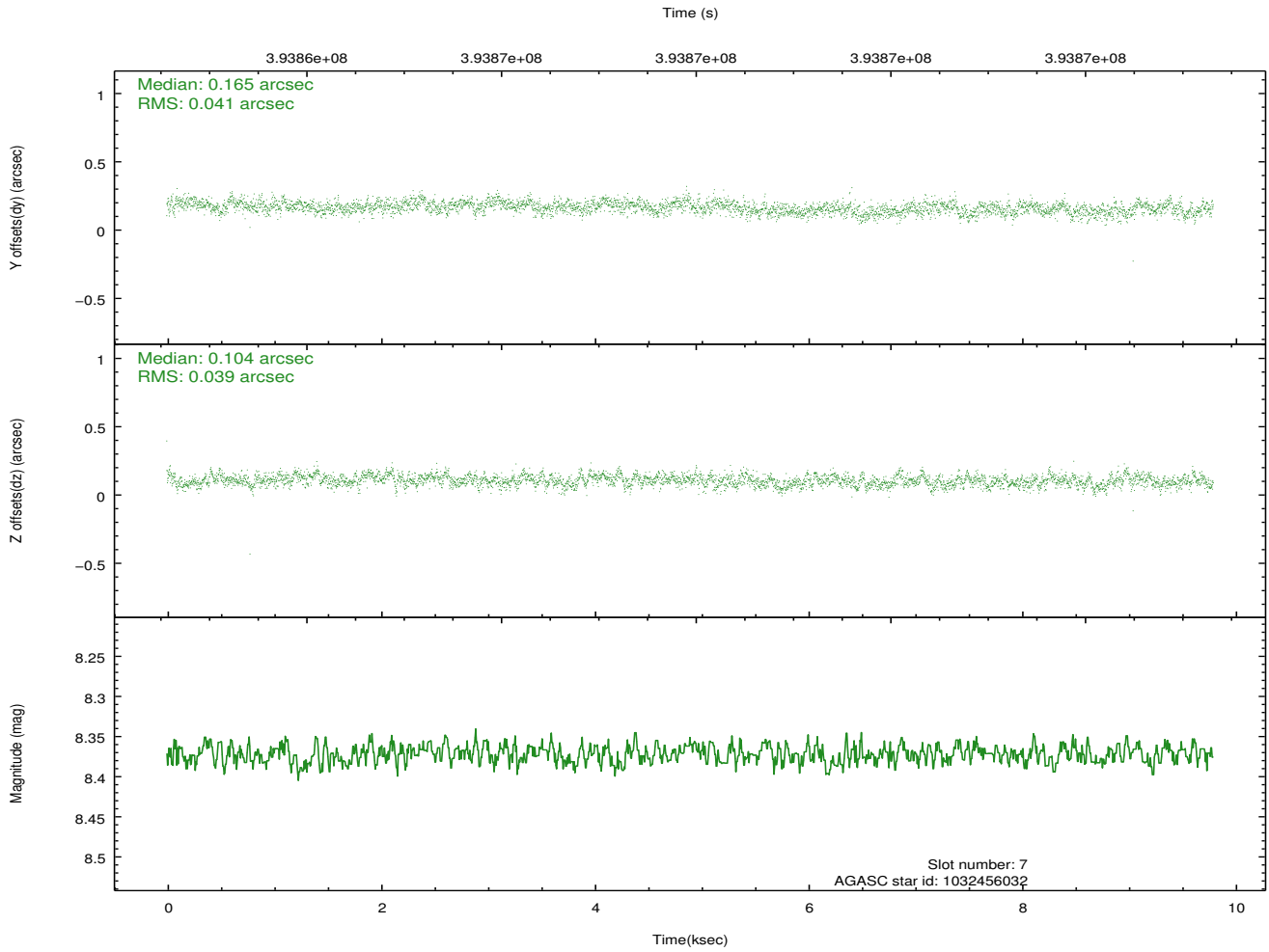
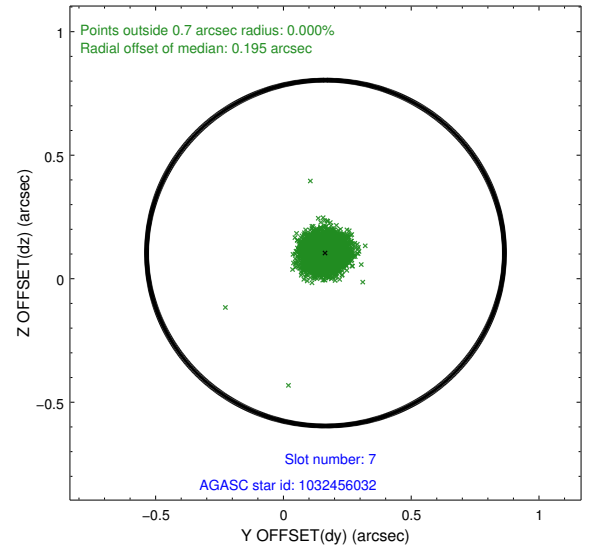
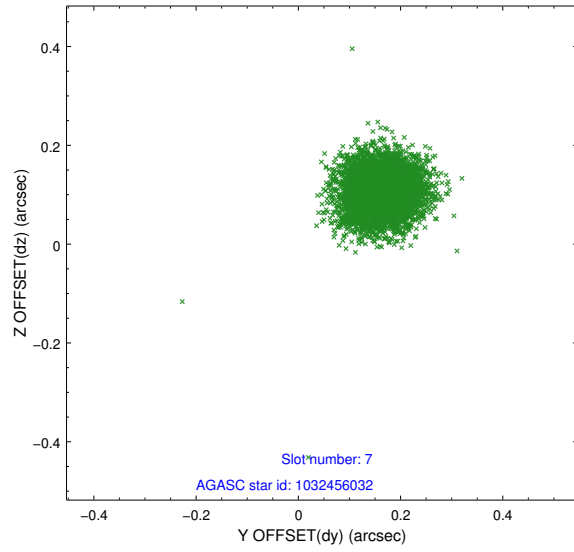


## 2.4.4 Slot 6



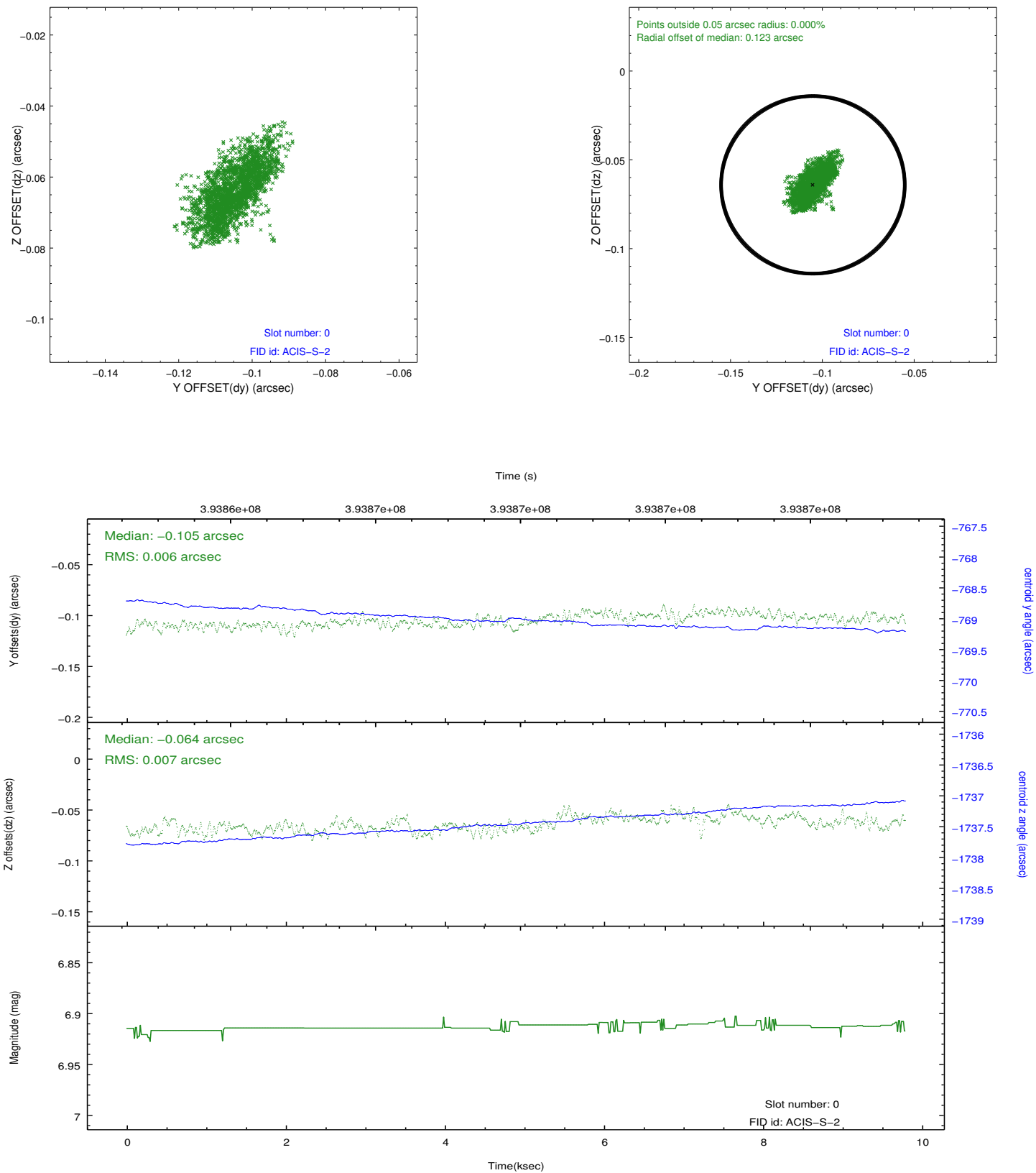


## 2.4.5 Slot 7

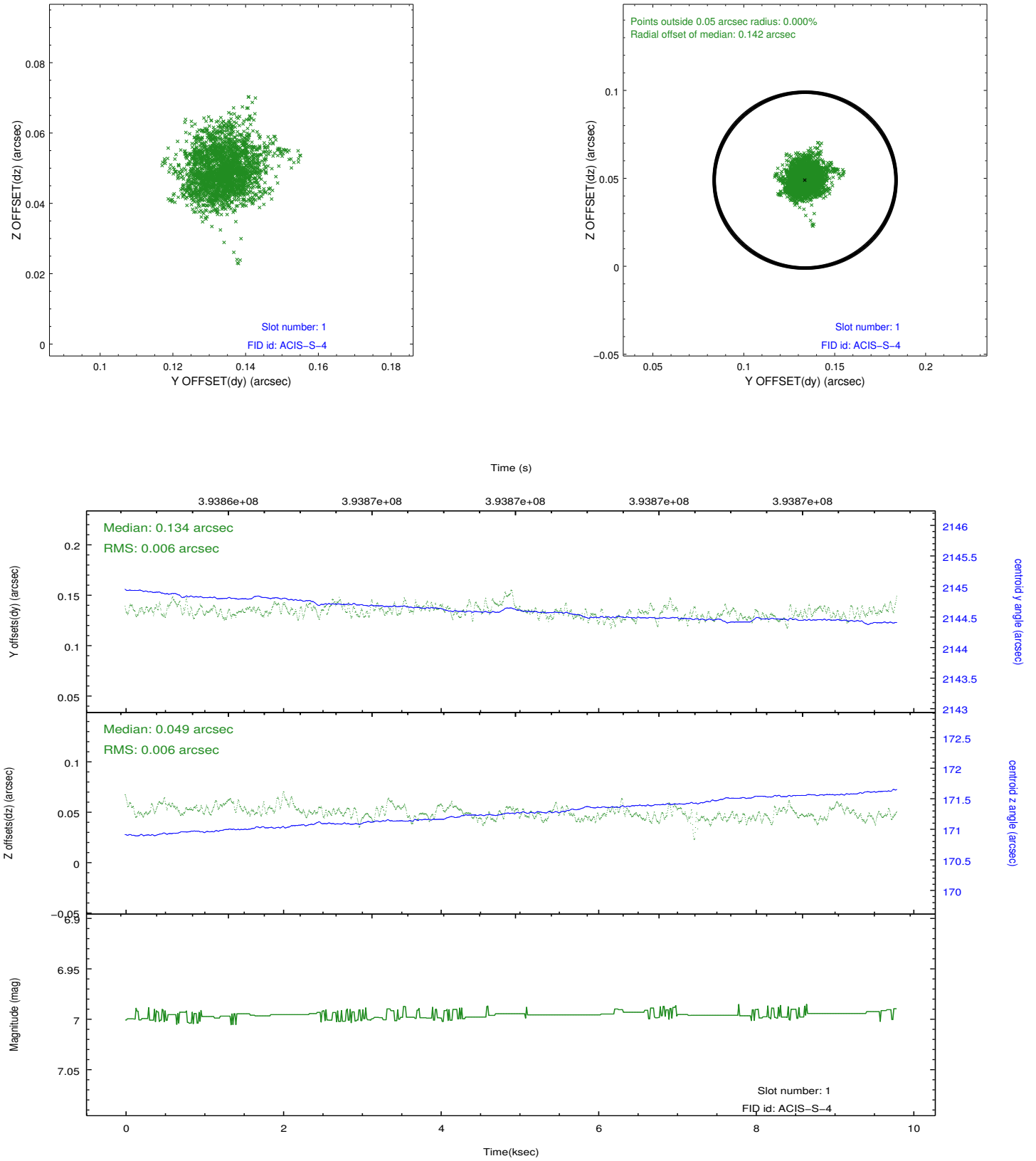


## 2.5 FID Slots

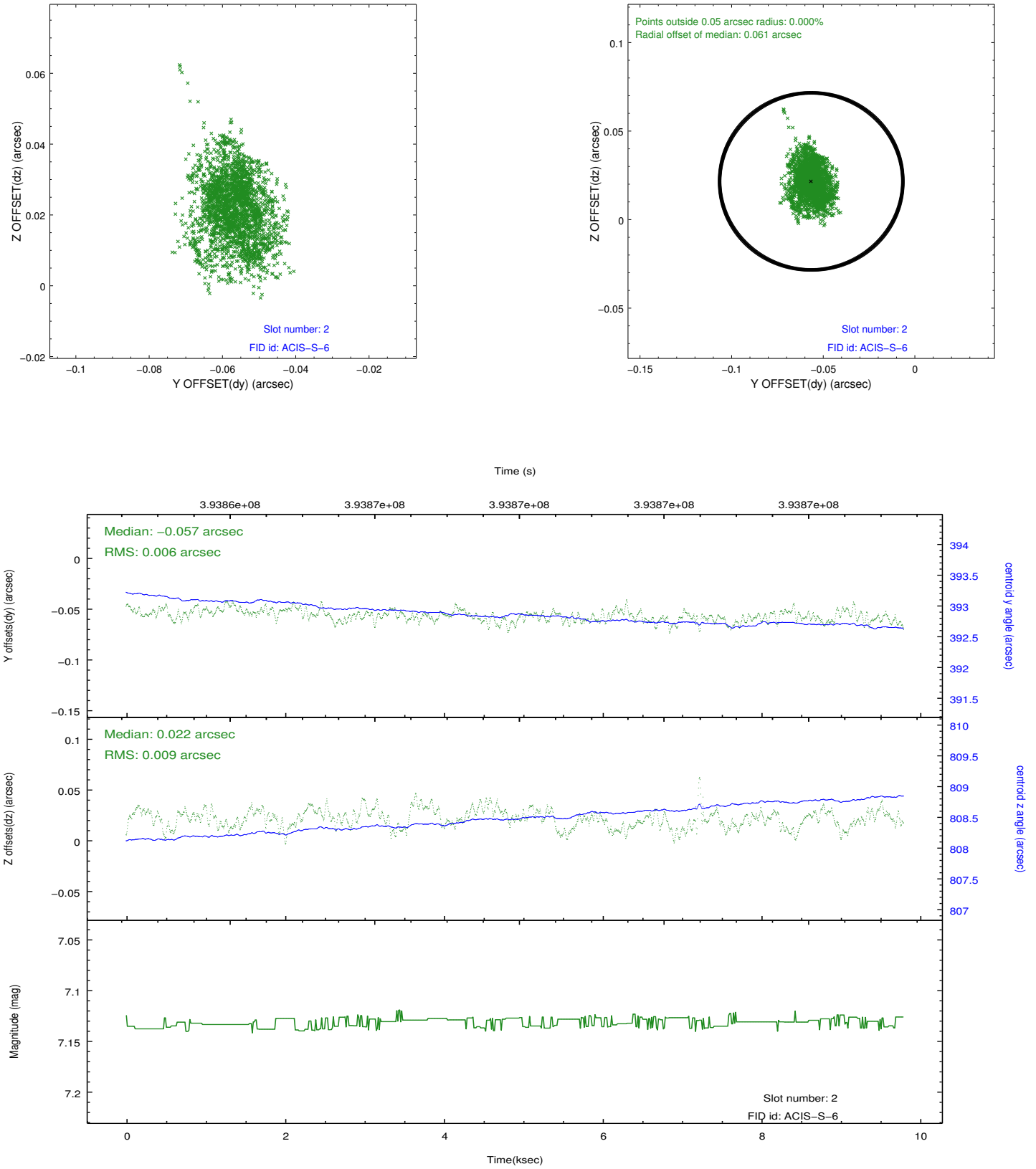
### 2.5.1 Slot 0



## 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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.6659387900233

### A.2 Comments