

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9535 - L2 Version 2  
Chandra X-Ray Center

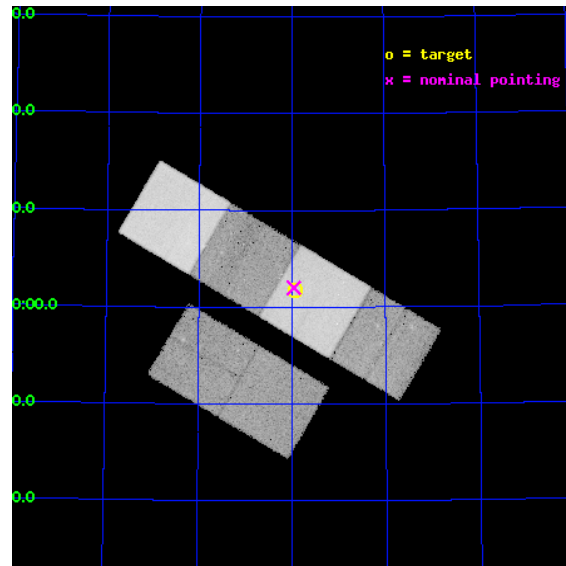
L2 Processing Date : May 19 2012

## 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	600676	Sequence number
obs_id	9535	Observation id
title	Galaxies across the Octaves: A Chandra Legacy Survey of SINGS Galaxies	Proposal title
observer	Dr Leigh Jenkins	Principal investigator
object	M81 DwA	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.983333	Observer's specified target RA [deg]
dec_targ	71.029306	Observer's specified target Dec [deg]
ra_nom	125.99029525286	Nominal RA [deg]
dec_nom	71.033587301105	Nominal Dec [deg]
roll_nom	30.624157116865	Nominal Roll [deg]
revision	2	Processing version of data
ontime	26251.417681396	Sum of GTIs [s]
livetime	25919.006424008	Livetime [s]
ontime2	26251.458721399	Sum of GTIs [s]
ontime3	26251.294561386	Sum of GTIs [s]
ontime5	26251.376641393	Sum of GTIs [s]
ontime6	26251.335601389	Sum of GTIs [s]
ontime7	26251.417681396	Sum of GTIs [s]
ontime8	26251.253521383	Sum of GTIs [s]
l2events	439187	Number of level 2 events

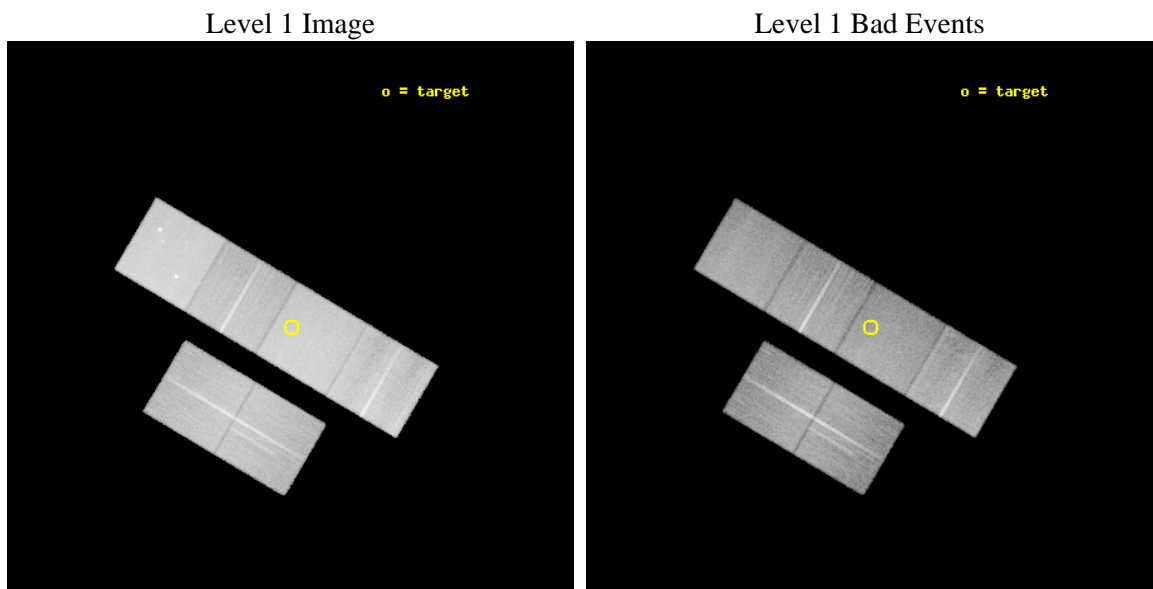




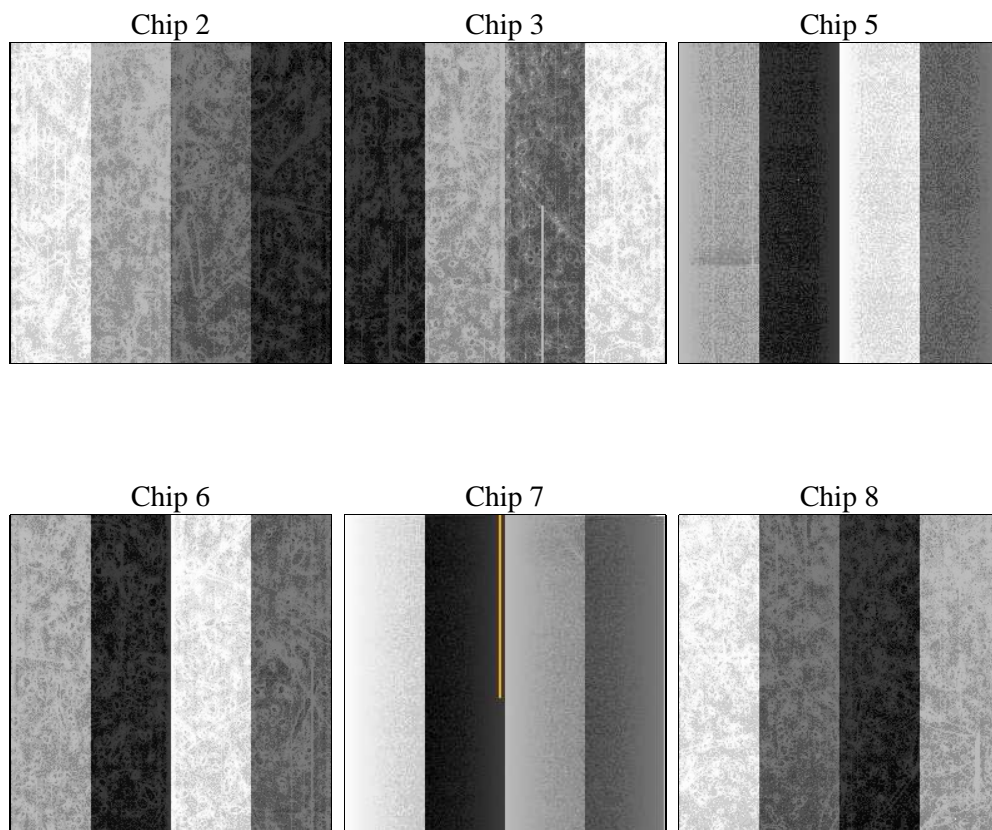
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	26251.417681396	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	26251.458721399	Sum of GTIs [s]
date	2012-05-19T21:42:14	Date and time of file creation	ontime3	26251.294561386	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	26251.376641393	Sum of GTIs [s]
			ontime6	26251.335601389	Sum of GTIs [s]
			ontime7	26251.417681396	Sum of GTIs [s]
			ontime8	26251.253521383	Sum of GTIs [s]
			l1events	1879513	Number of level 1 events

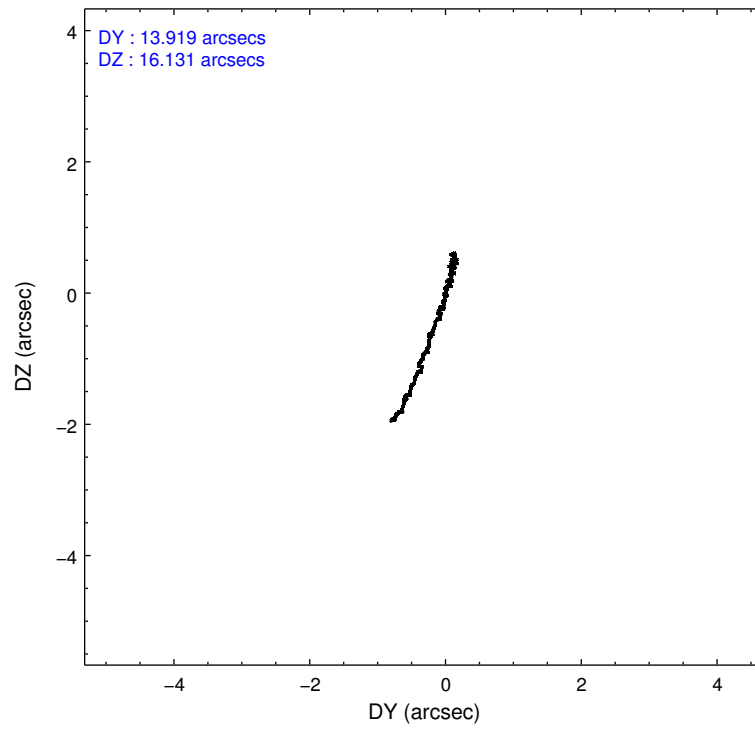
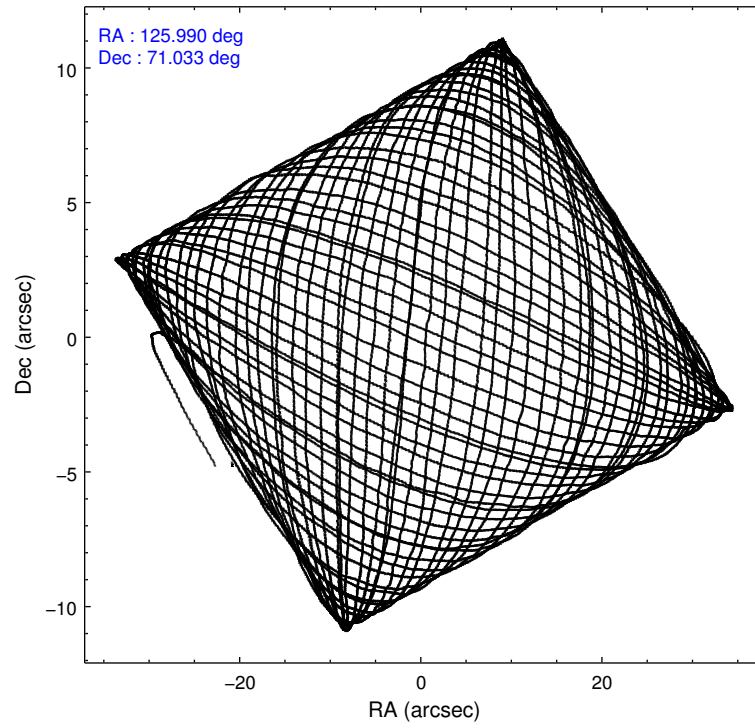
### 2.1.4 Events

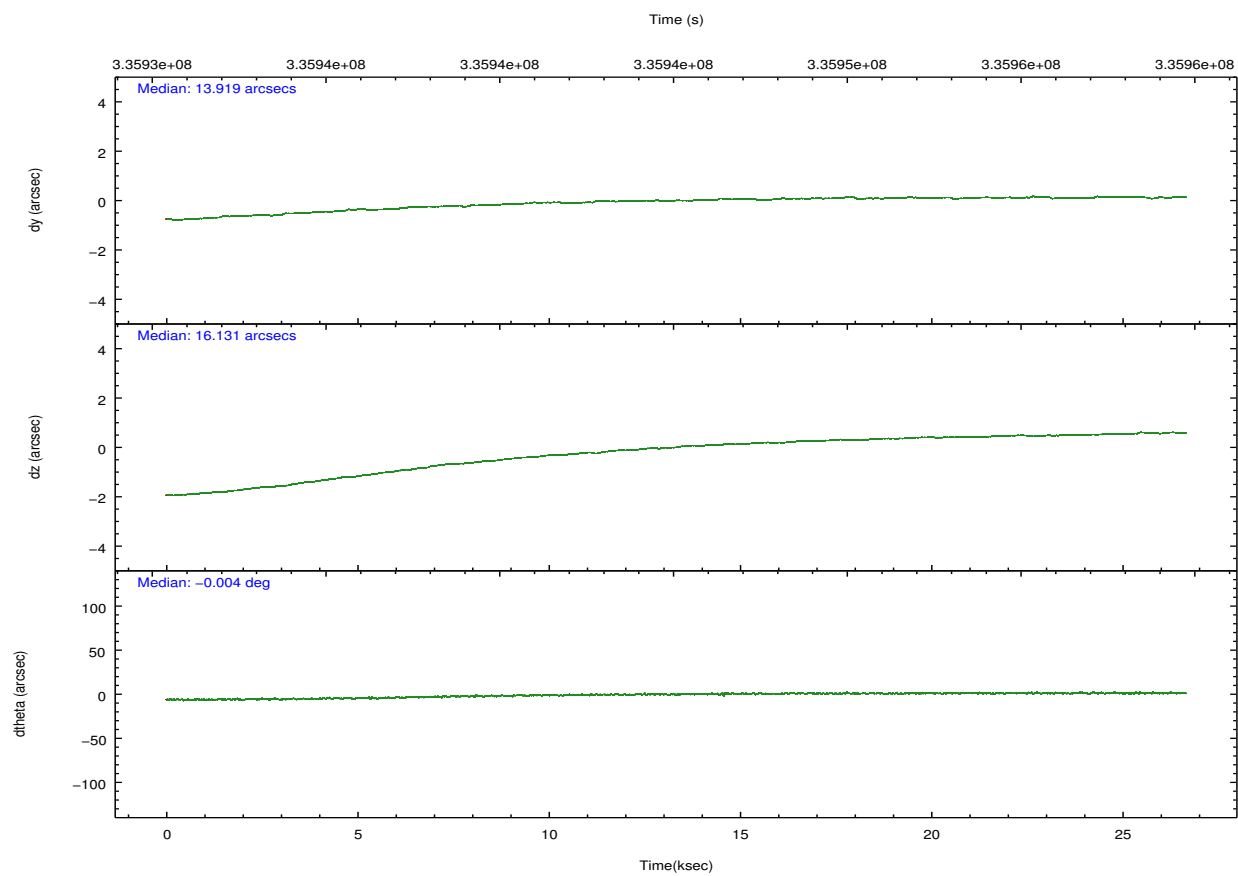
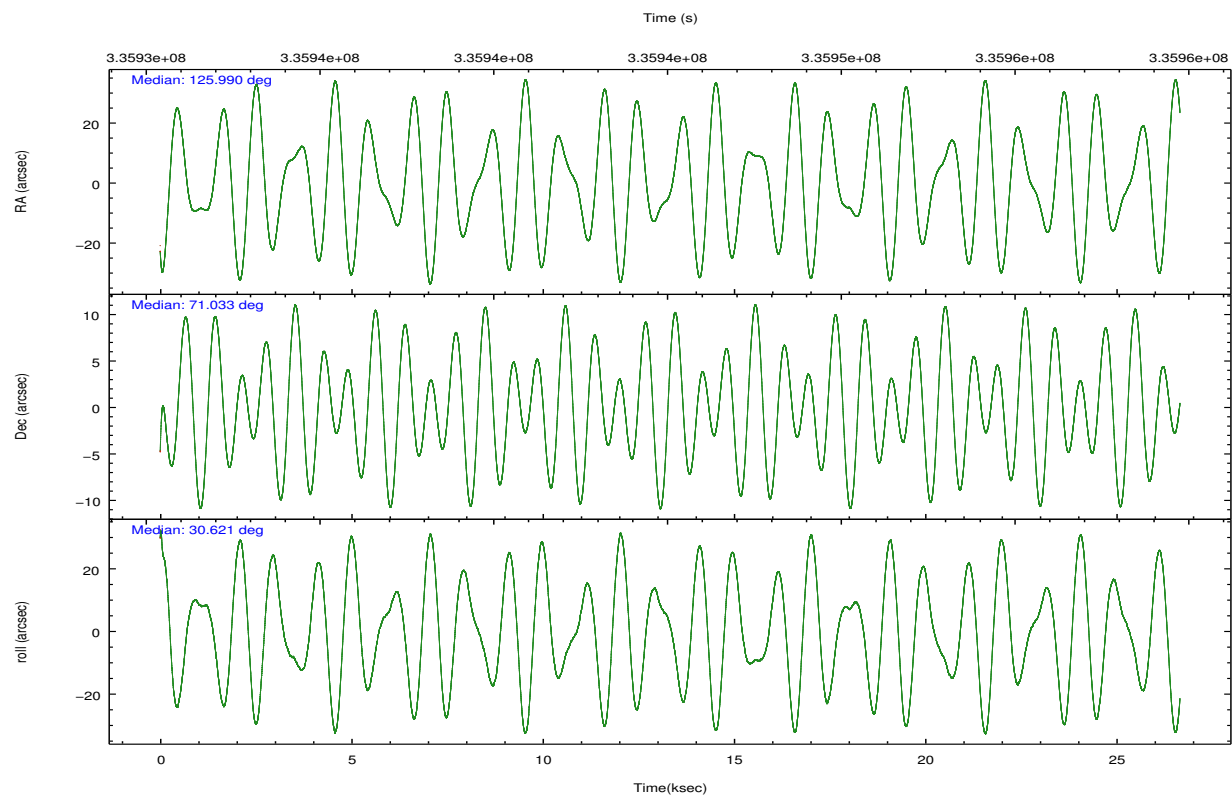
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	263311	250867	404024	262966	364261	334084	grade 0 events	14038	13253	15443	12393	12958	23984
rejected events	231556	220183	218851	231064	212912	256763		5%	5%	3%	4%	3%	7%
rejected %	87%	87%	54%	87%	58%	76%	grade 1 events	173	184	565	145	380	260
								0%	0%	0%	0%	0%	0%
							grade 2 events	6698	6094	57152	7097	31069	17708
								2%	2%	14%	2%	8%	5%
							grade 3 events	2807	2906	6926	3022	12935	7992
								1%	1%	1%	1%	3%	2%
							grade 4 events	2810	2940	6782	2866	12820	7437
								1%	1%	1%	1%	3%	2%
							grade 5 events	10449	12096	29202	12572	34171	16811
								3%	4%	7%	4%	9%	5%
							grade 6 events	5406	5495	98890	6531	81579	20206
								2%	2%	24%	2%	22%	6%
							grade 7 events	220930	207899	189064	218340	178349	239686
								83%	82%	46%	83%	48%	71%

## 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	125.950048	125.9902952528611	CCD I2 on	O1	Y
[deg] Pointing Dec	71.009595	71.03358730110469	CCD I3 on	O2	Y
[deg] Pointing Roll	30.505591	30.6241571168651	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	335932088.184000	335930895.89436	CCD S5 on	N	N
Observation start date	2008-08-24T02:27:03	2008-08-24T02:08:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	335958388.184000	335958701.58322	On-chip summing requested	N	N
Observation end date	2008-08-24T09:45:23	2008-08-24T09:51:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



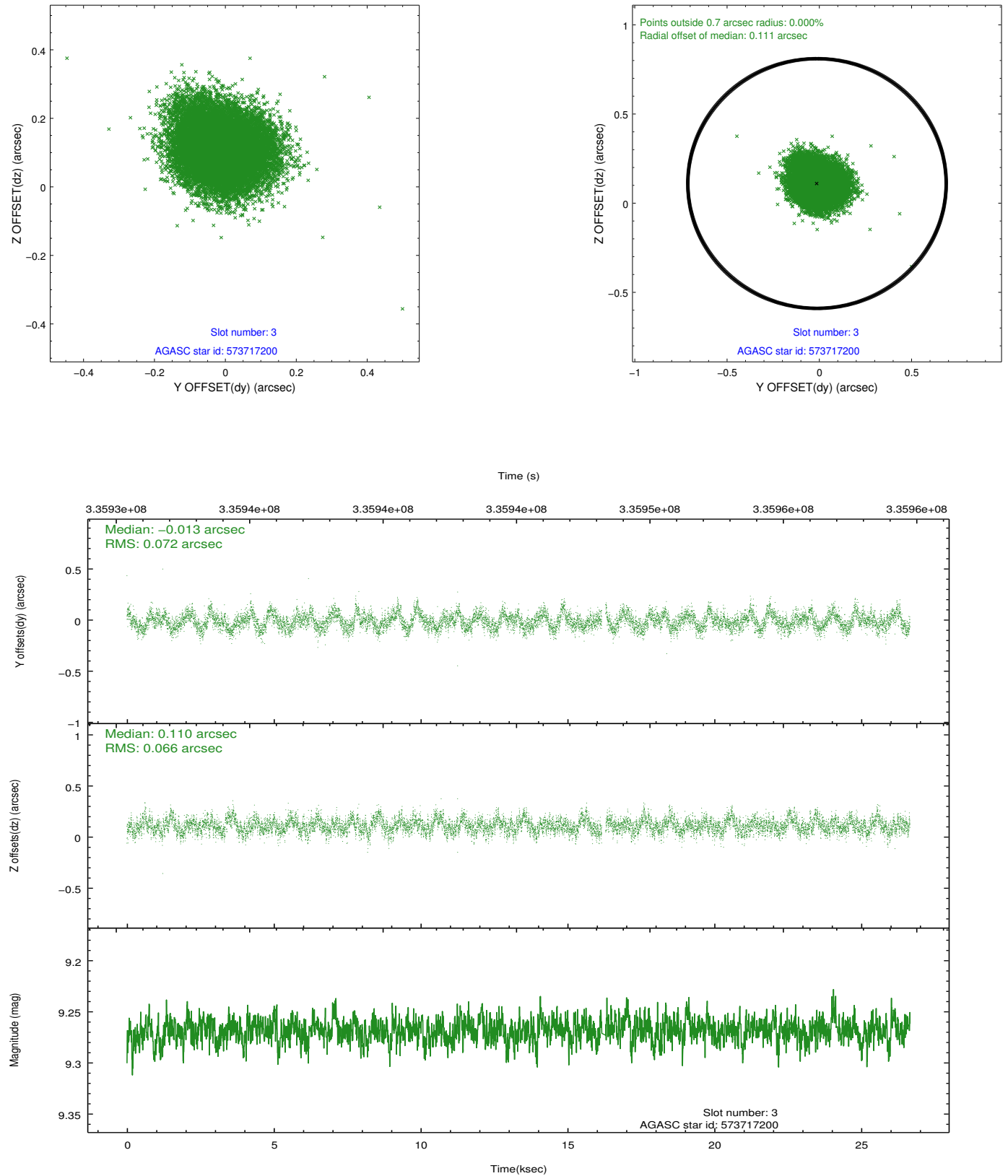


### Slot Statistics

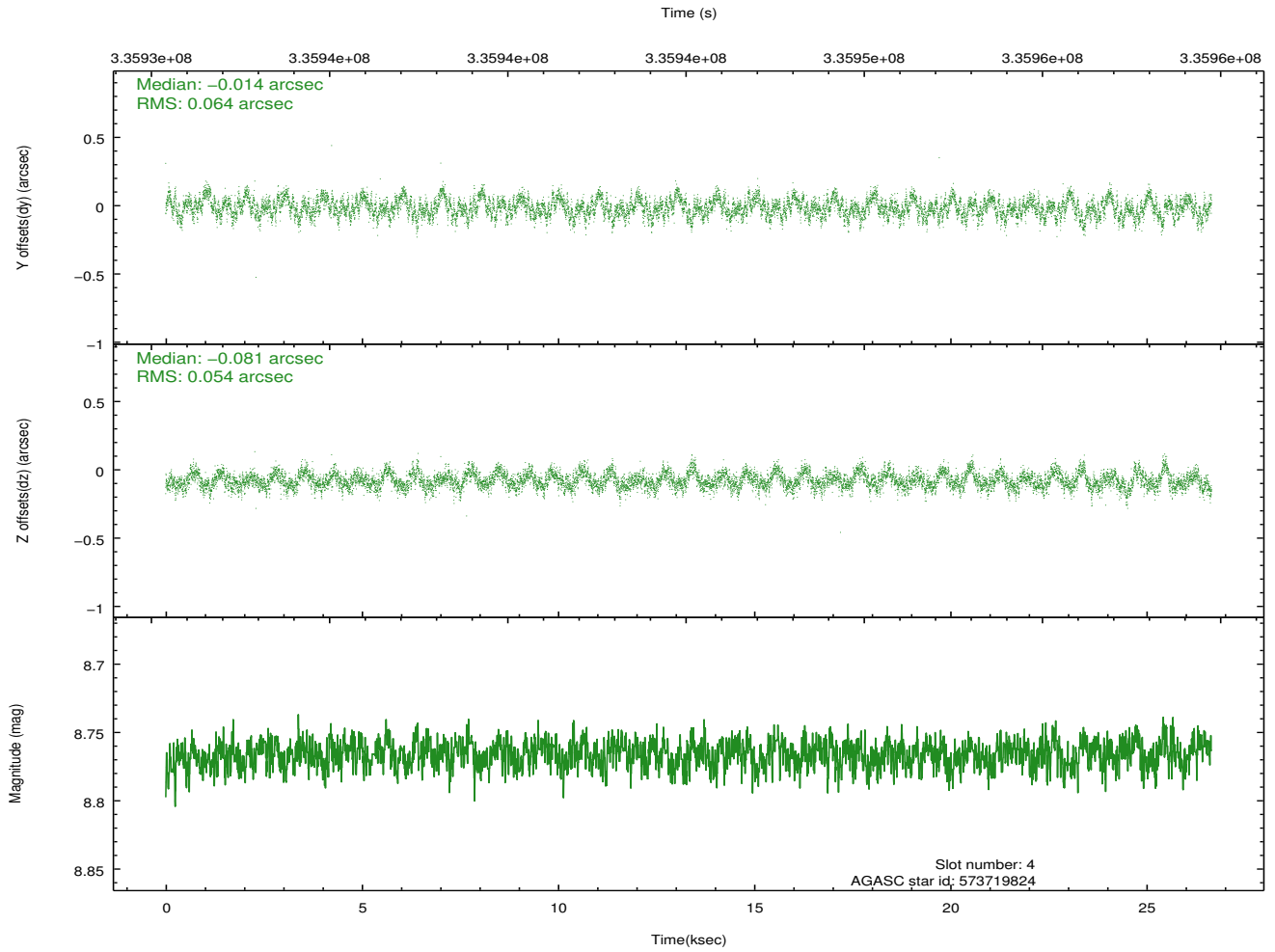
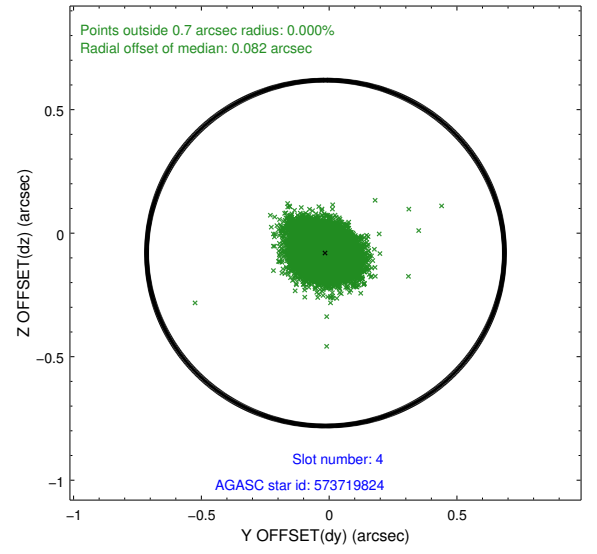
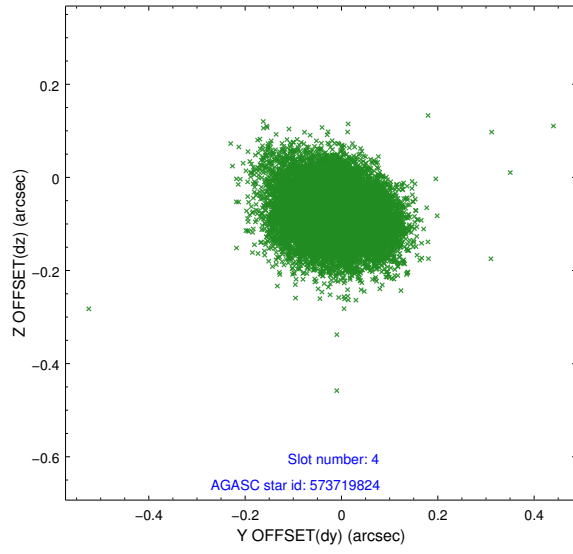
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.97	6503	0.099	-0.070	0.022	0.077	0.000000	0.000000	929.34	-1732.97
1	FID	ACIS-S-2	6.90	6503	-0.100	-0.009	0.010	0.016	0.000000	0.000000	-766.70	-1737.54
2	FID	ACIS-S-6	7.11	6503	-0.018	0.081	0.015	0.068	0.000000	0.000000	394.90	808.40
3	GUIDE	573717200	9.27	12928	-0.013	0.110	0.104	0.166	126.642702	71.051410	776.23	-277.31
4	GUIDE	573719824	8.77	12992	-0.014	-0.081	0.089	0.141	124.187277	71.200735	-1397.06	1656.50
5	GUIDE	573720304	9.49	12992	0.008	-0.175	0.121	0.200	127.347522	71.281310	1896.97	39.53
6	GUIDE	573720320	9.83	12986	0.147	-0.004	0.163	0.252	124.404502	70.773374	-1997.68	217.53
7	GUIDE	573721120	8.35	12999	-0.124	0.141	0.085	0.133	127.860886	71.024491	1971.90	-1058.38

## 2.4 Star Slots

### 2.4.1 Slot 3

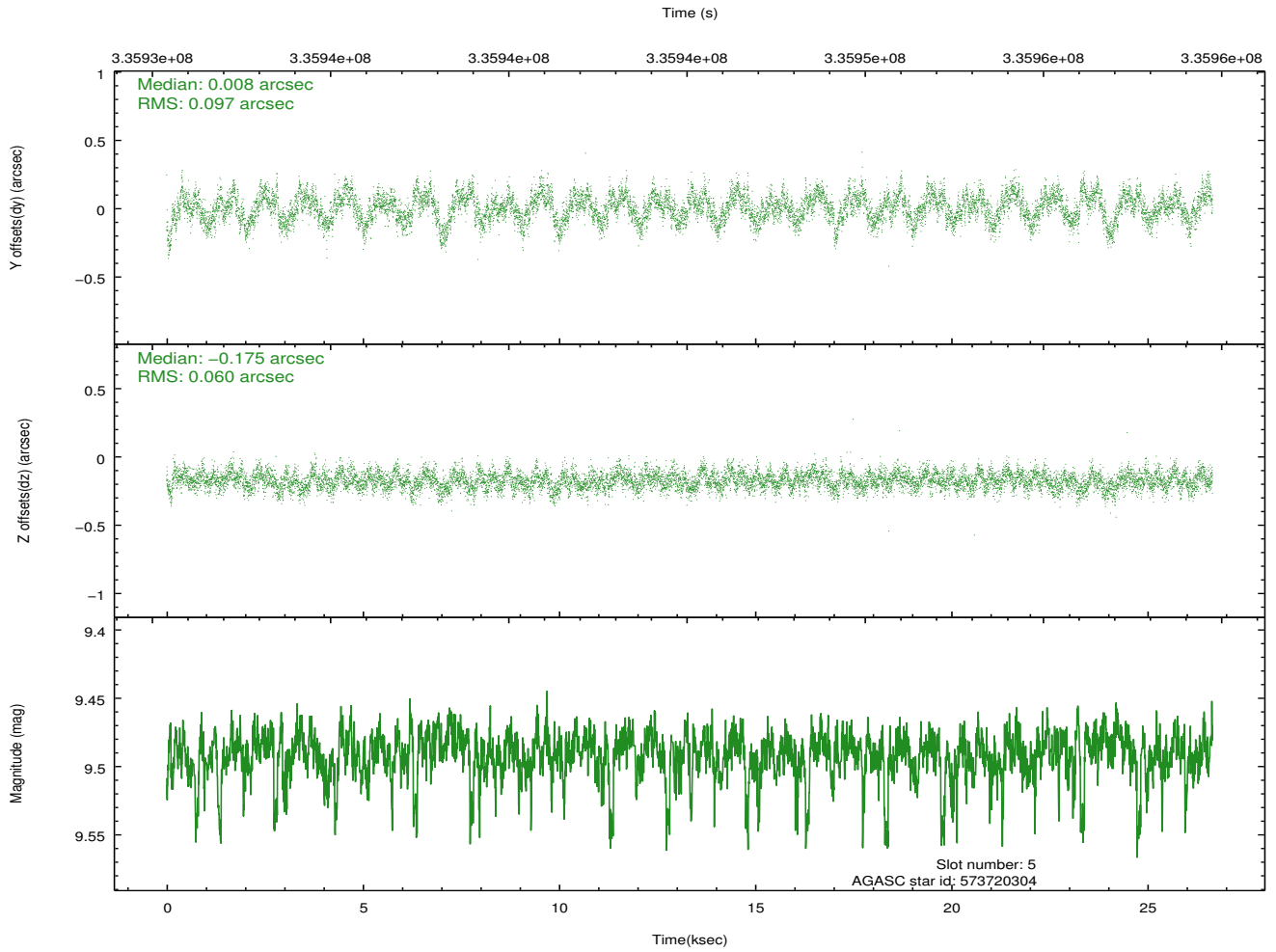
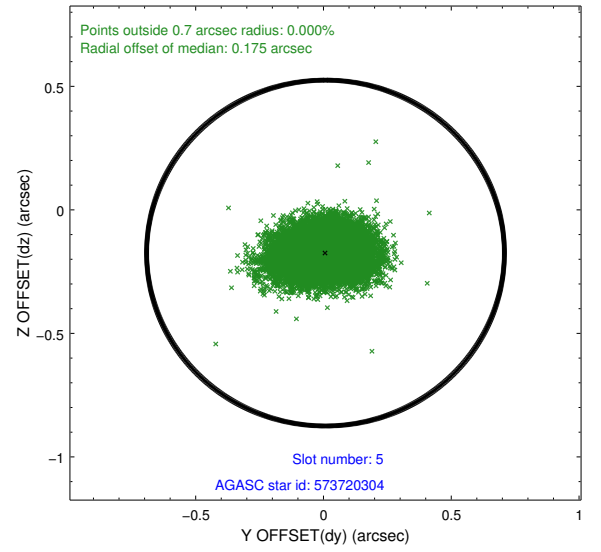
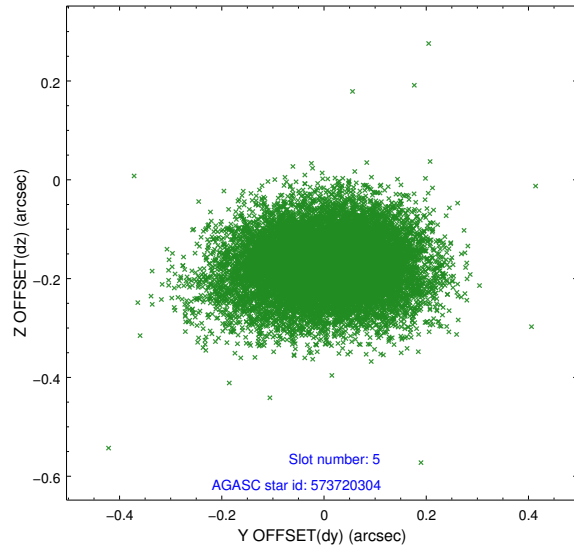


## 2.4.2 Slot 4

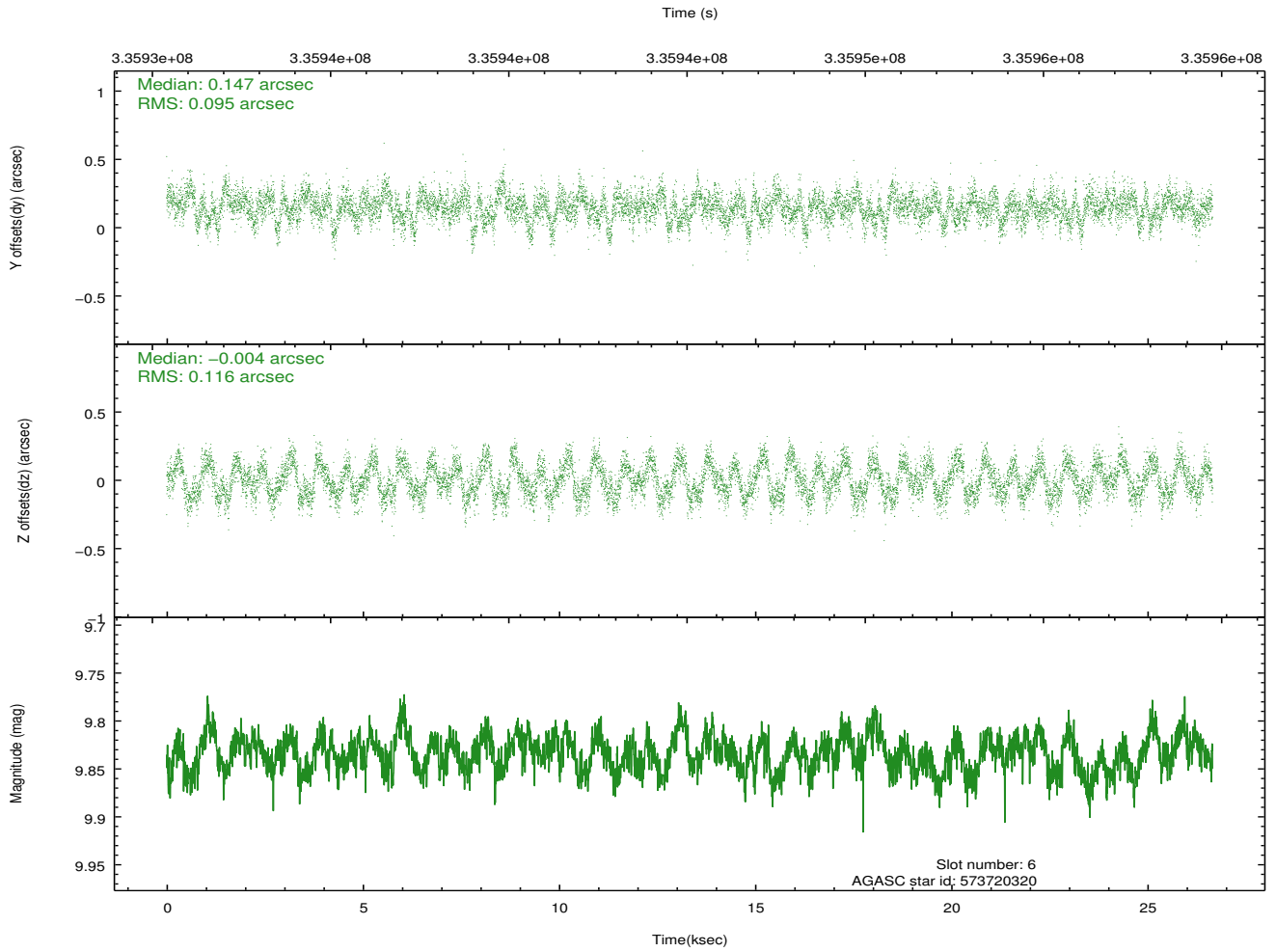
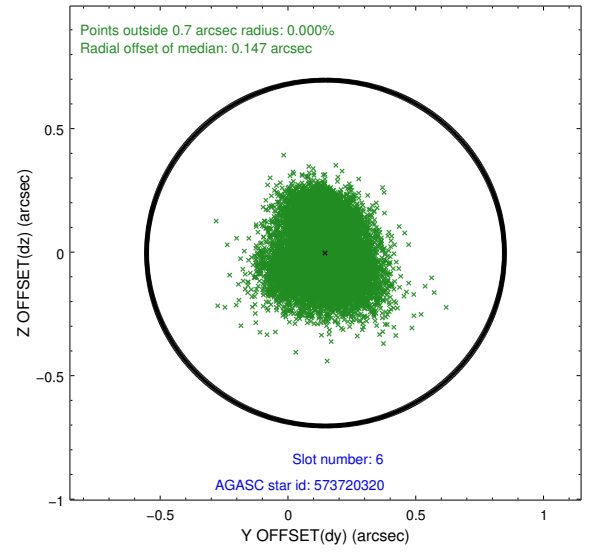
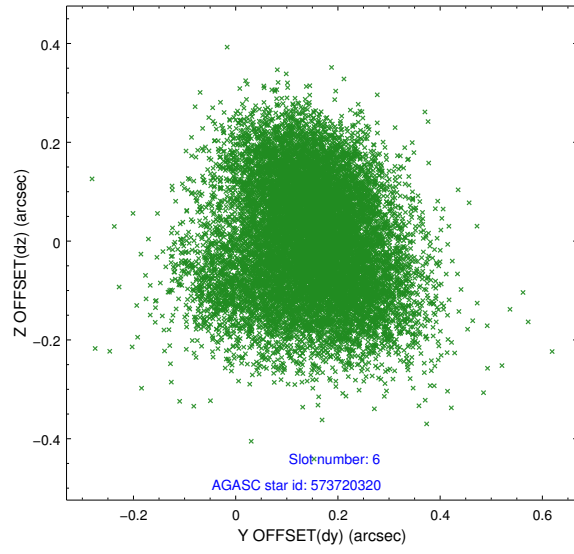




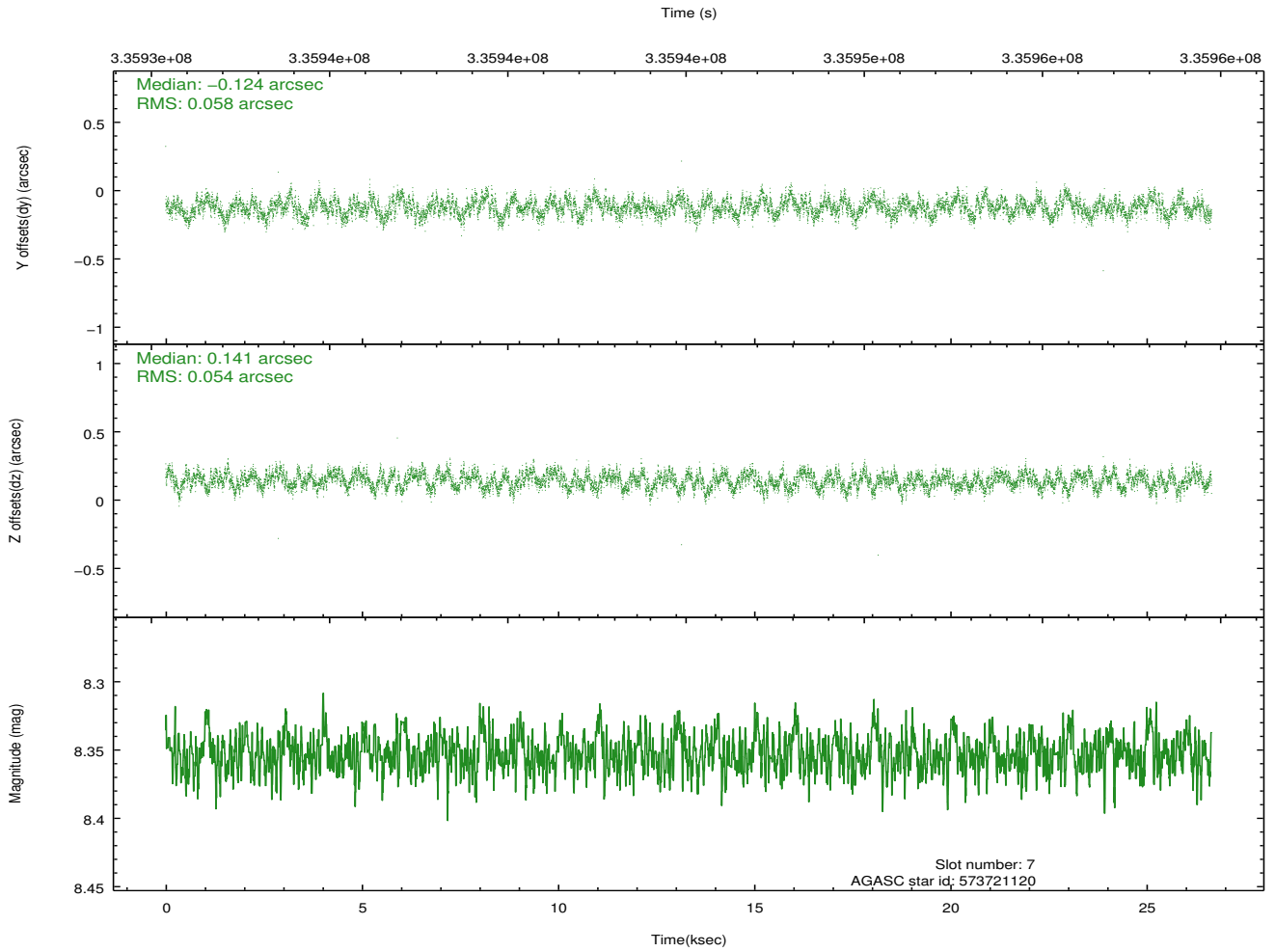
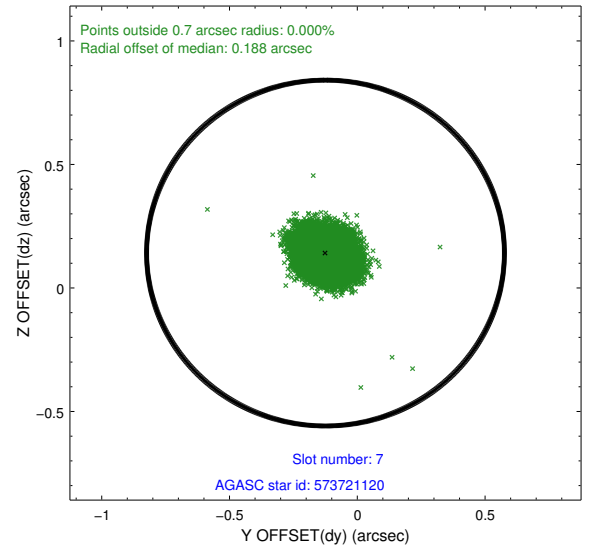
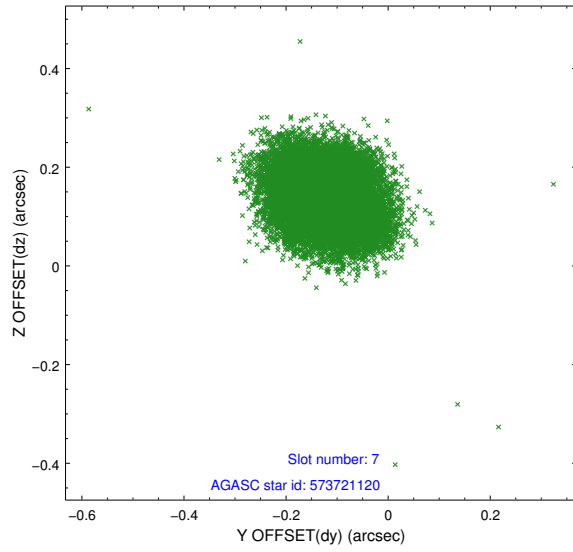
### 2.4.3 Slot 5



## 2.4.4 Slot 6

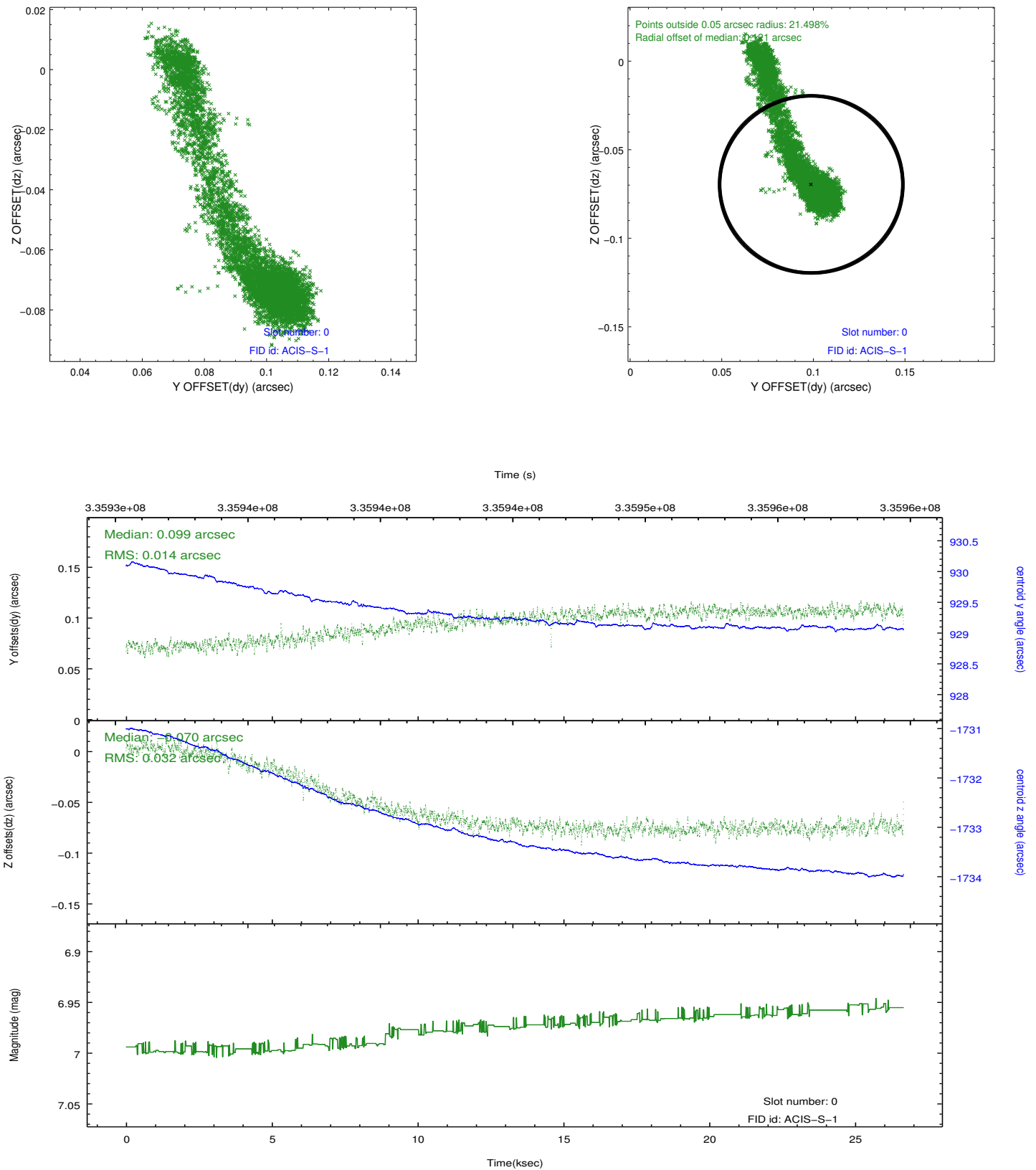


## 2.4.5 Slot 7

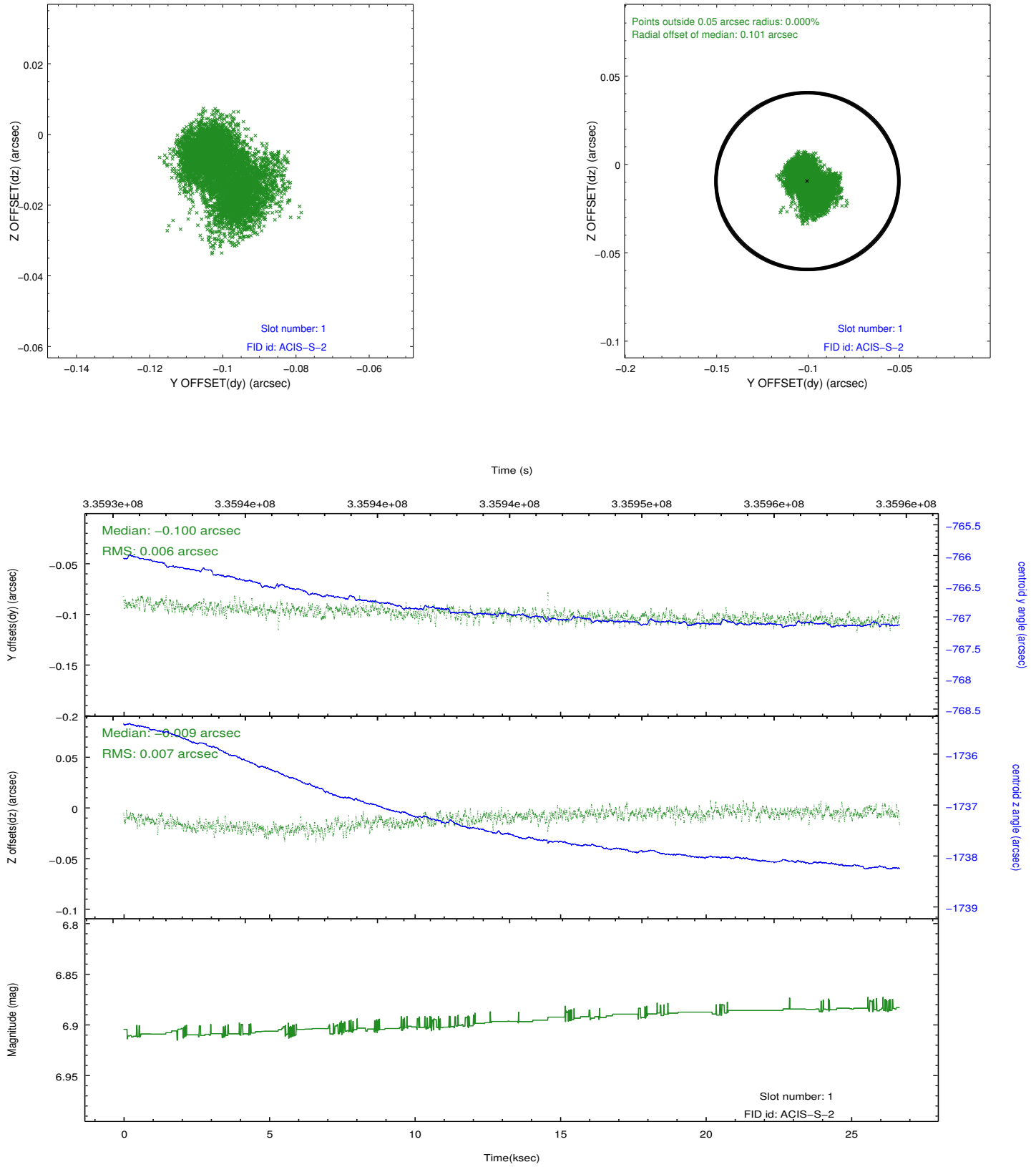


## 2.5 FID Slots

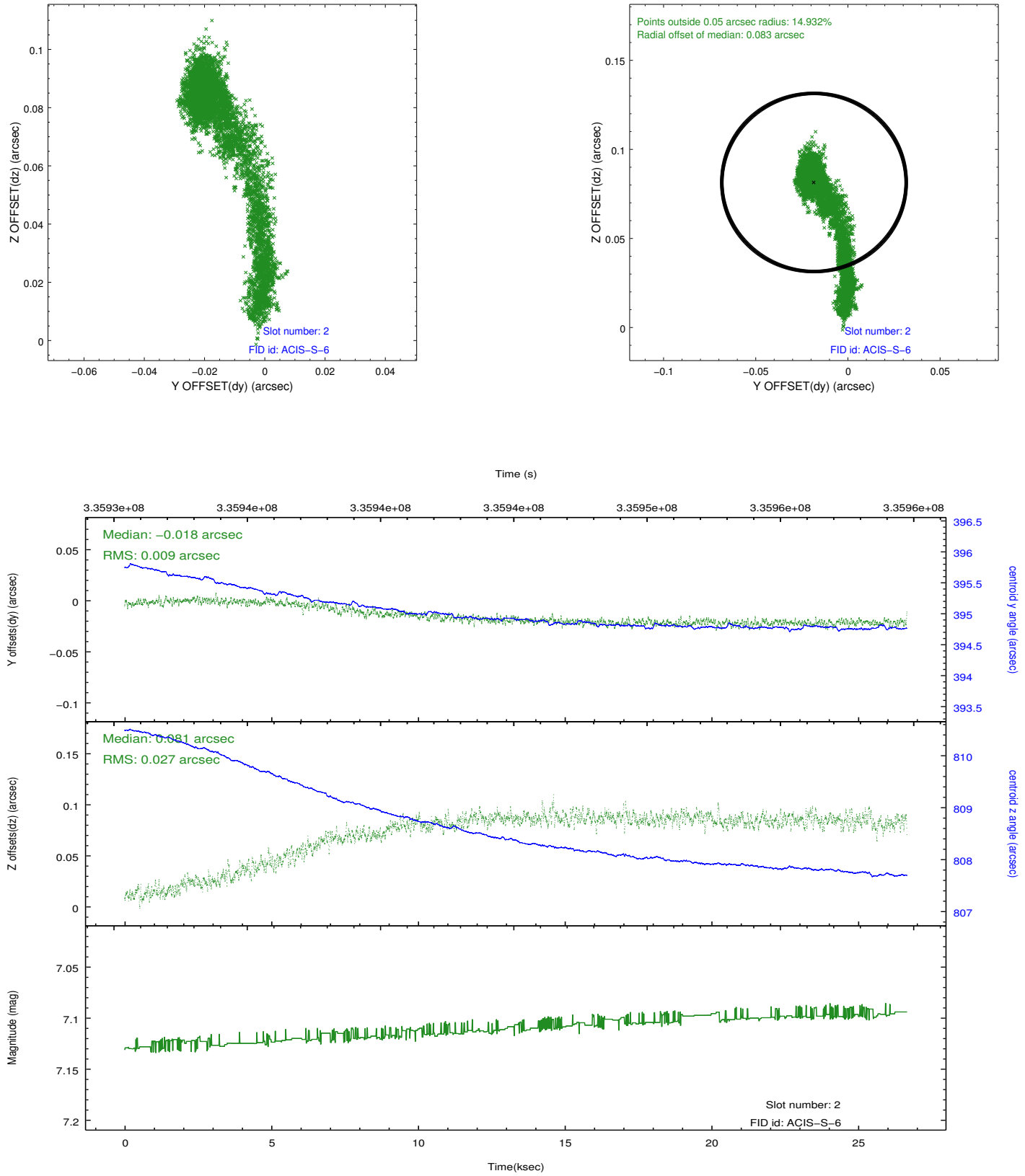
### 2.5.1 Slot 0



## 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)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.2527999

### A.2 Comments