

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7055 - L2 Version 2  
Chandra X-Ray Center

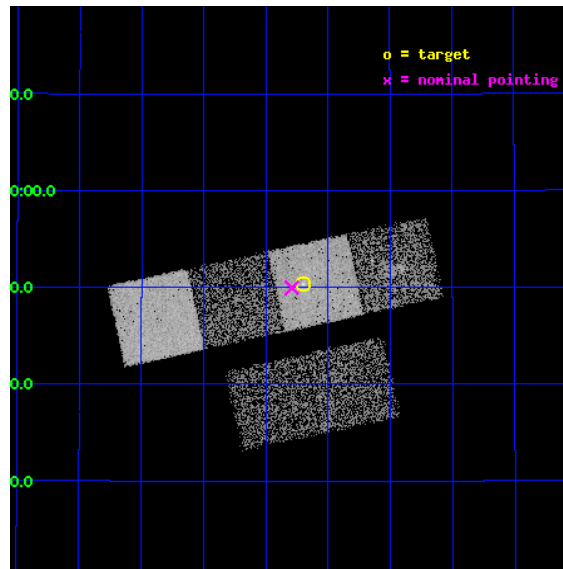
L2 Processing Date : Mar 18 2012

## 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

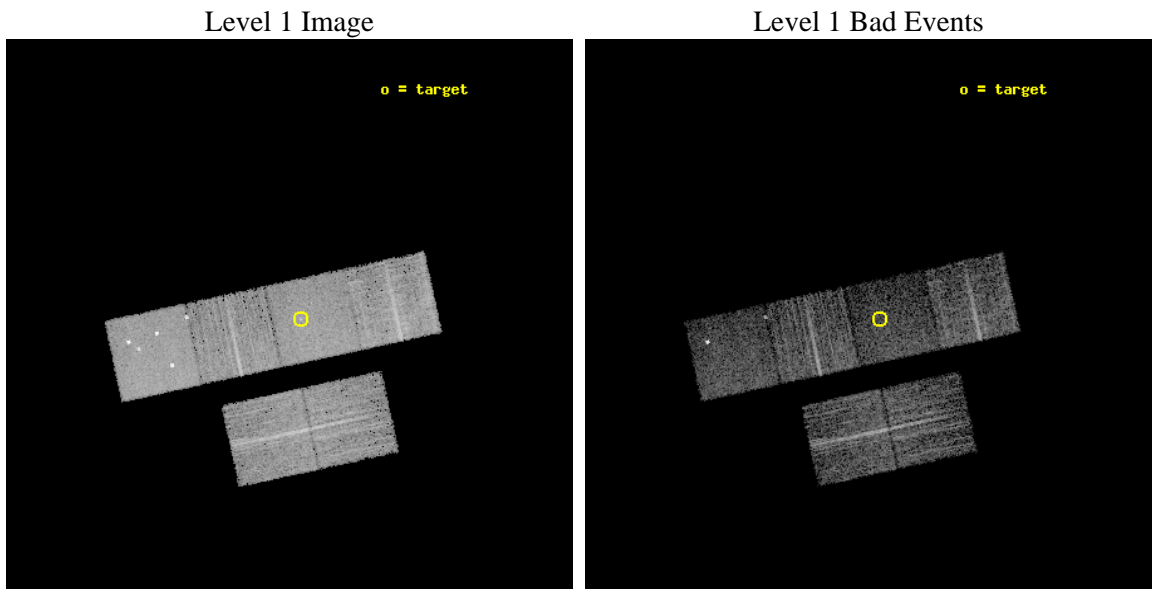
seq_num	600493	Sequence number
obs_id	7055	Observation id
title	Isolated Ellipticals	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	NGC6487	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.174583	Observer's specified target RA [deg]
dec_targ	29.838889	Observer's specified target Dec [deg]
ra_nom	268.19750307016	Nominal RA [deg]
dec_nom	29.832781986234	Nominal Dec [deg]
roll_nom	347.8186388837	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5151.9999808073	Sum of GTIs [s]
livetime	5086.7622548884	Livetime [s]
ontime2	5151.9999808073	Sum of GTIs [s]
ontime3	5151.9999808073	Sum of GTIs [s]
ontime5	5151.9999808073	Sum of GTIs [s]
ontime6	5151.9999808073	Sum of GTIs [s]
ontime7	5151.9999808073	Sum of GTIs [s]
ontime8	5151.9999808073	Sum of GTIs [s]
l2events	52345	Number of level 2 events



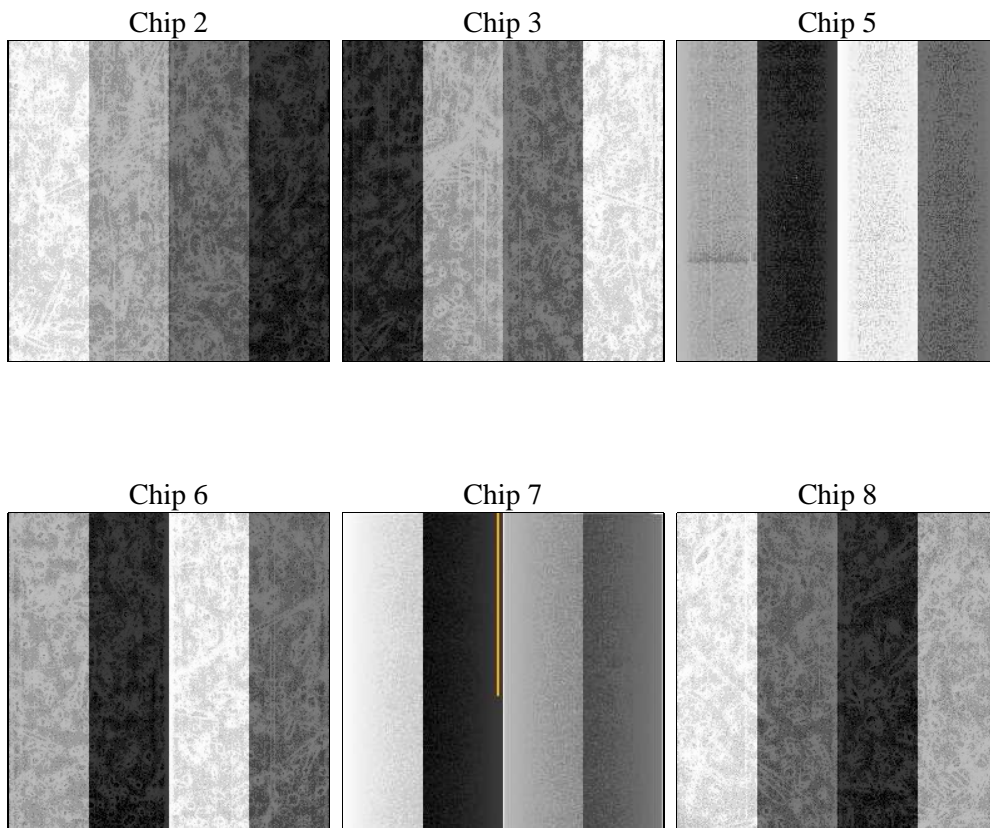
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5151.9999808073	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	5151.9999808073	Sum of GTIs [s]
date	2012-03-18T09:32:33	Date and time of file creation	ontime3	5151.9999808073	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5151.9999808073	Sum of GTIs [s]
			ontime6	5151.9999808073	Sum of GTIs [s]
			ontime7	5151.9999808073	Sum of GTIs [s]
			ontime8	5151.9999808073	Sum of GTIs [s]
			l1events	253031	Number of level 1 events

### 2.1.4 Events

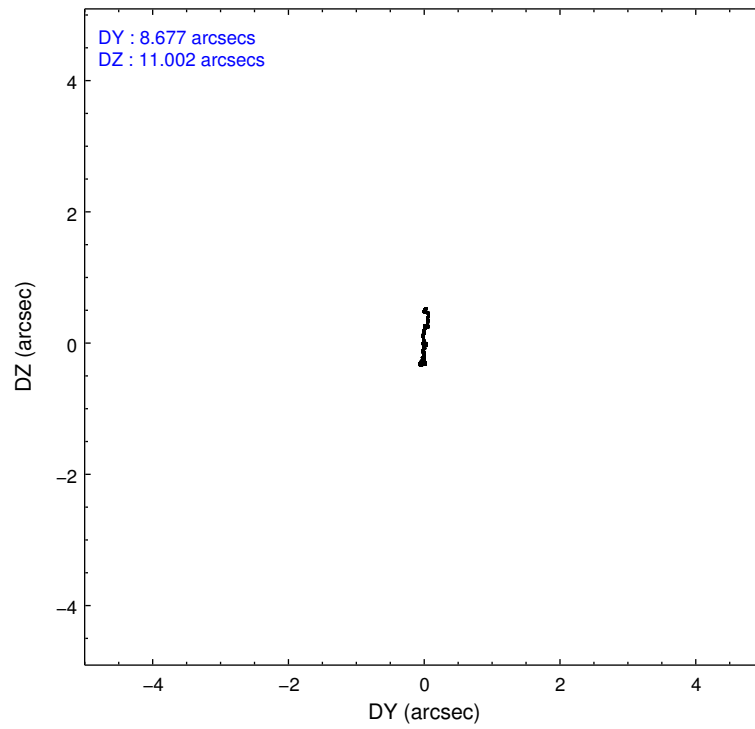
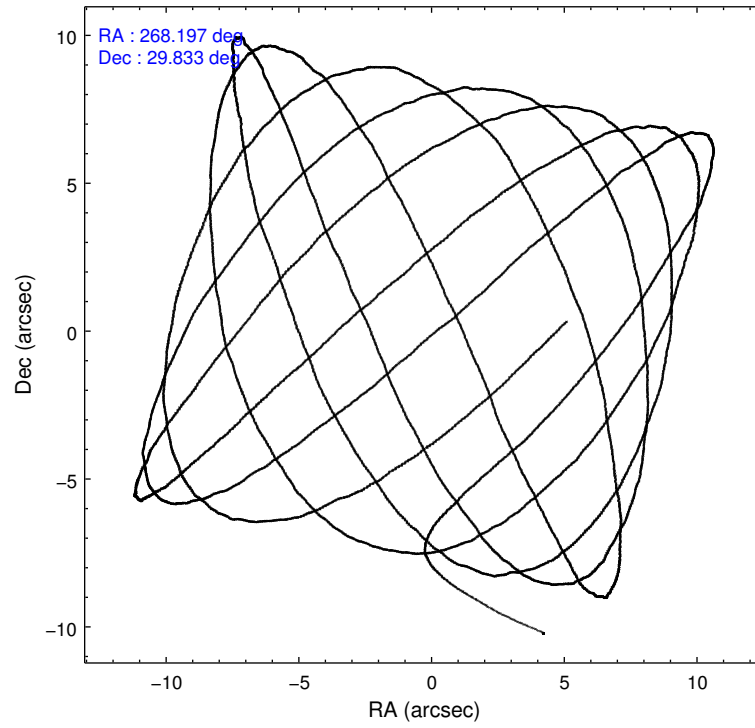
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	38893	35682	53983	37090	41217	46166	grade 0 events	1263	1181	5017	1383	1897	3572
rejected events	35522	32463	27670	33411	22770	35694		3%	3%	9%	3%	4%	7%
rejected %	91%	90%	51%	90%	55%	77%	grade 1 events	23	18	142	14	27	43
								0%	0%	0%	0%	0%	0%
							grade 2 events	829	723	7435	797	3979	2406
								2%	2%	13%	2%	9%	5%
							grade 3 events	381	419	1109	434	1831	1139
								0%	1%	2%	1%	4%	2%
							grade 4 events	380	369	1050	412	1831	1030
								0%	1%	1%	1%	4%	2%
							grade 5 events	1220	1410	4712	1429	4380	2007
								3%	3%	8%	3%	10%	4%
							grade 6 events	655	678	12905	805	9730	2738
								1%	1%	23%	2%	23%	5%
							grade 7 events	34142	30884	21613	31816	17542	33231
								87%	86%	40%	85%	42%	71%

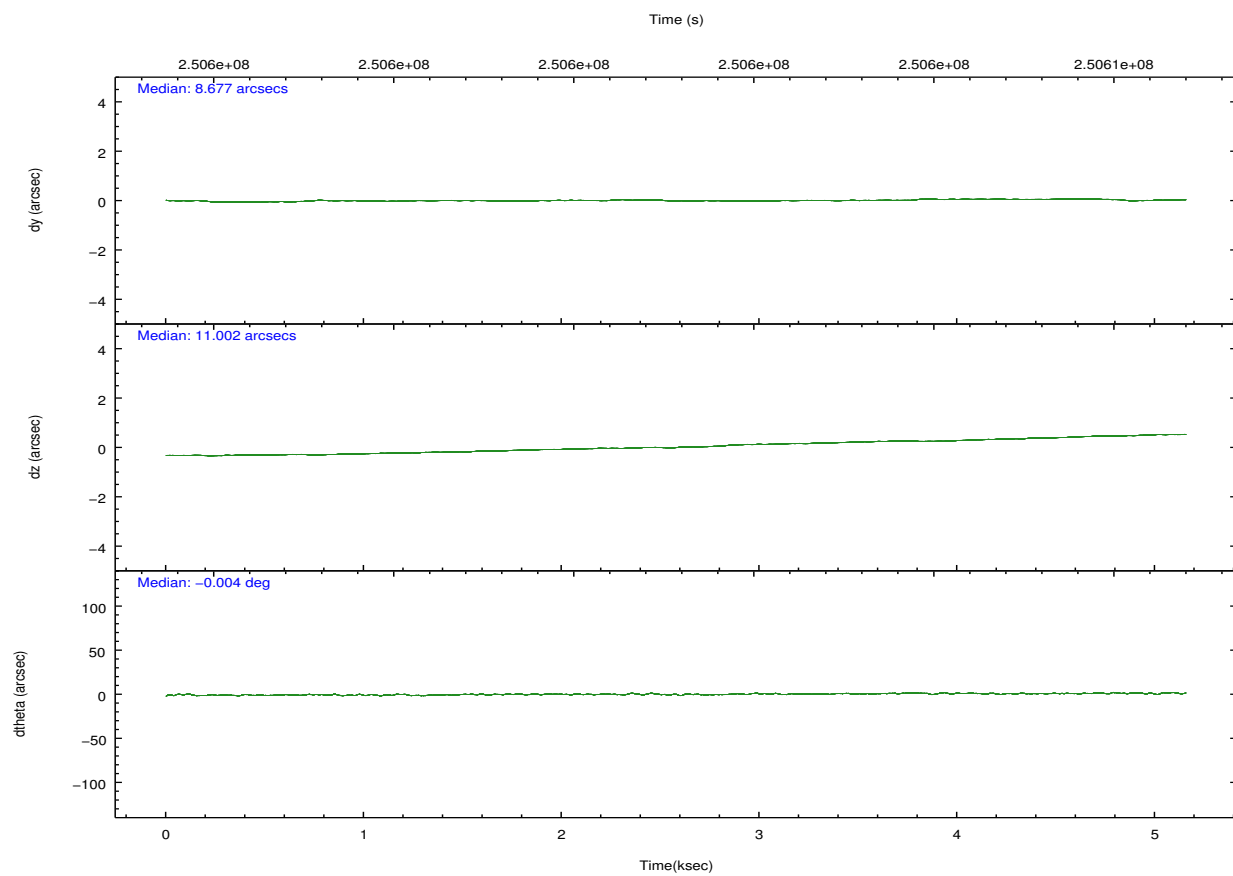
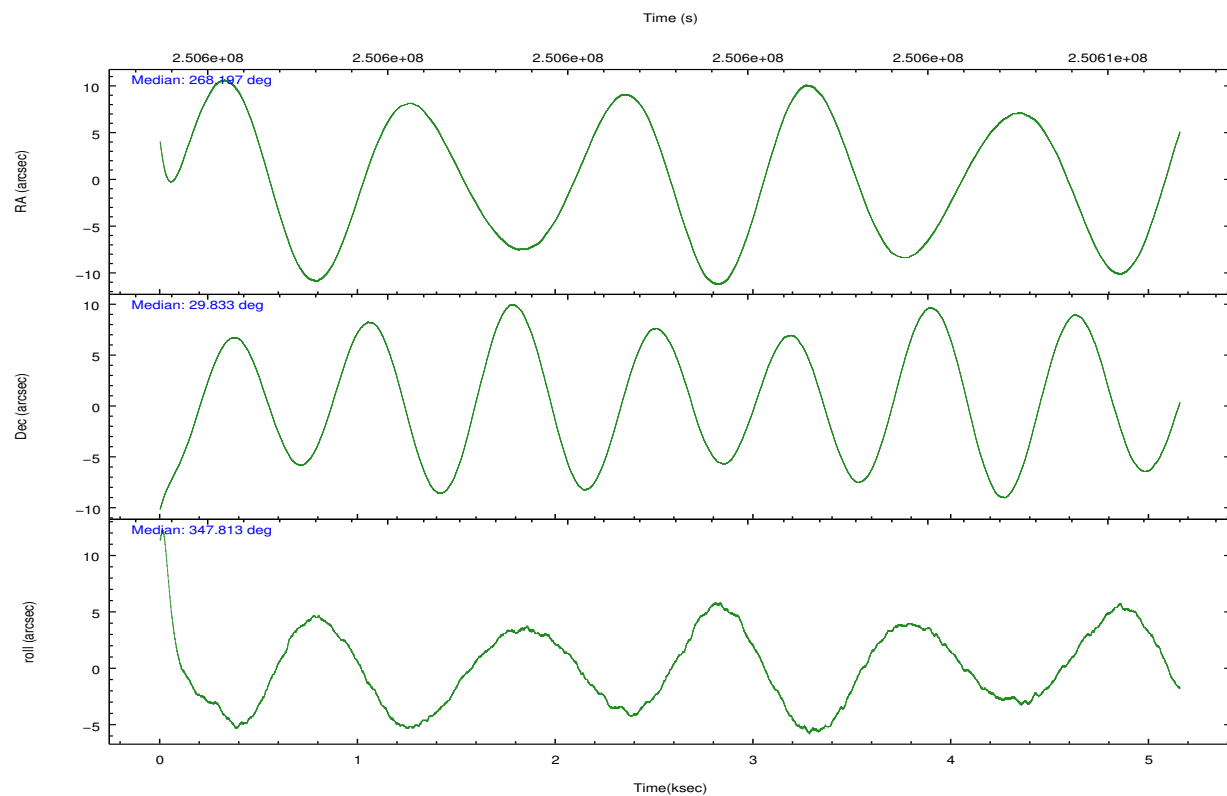


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	268.167724	268.197503070162	Subarray requested	NONE	NONE
[deg] Pointing Dec	29.824147	29.83278198623359	Alternating exposures requested	N	N
[deg] Pointing Roll	347.676804	347.8186388836955	[s] Primary exposure time	0.000000	3.2
[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)	250601152.184000	250599978.25482			
Observation start date	2005-12-10T11:24:48	2005-12-10T11:06:18			
[s] Observation end time (MET)	250606152.184000	250606967.73015			
Observation end date	2005-12-10T12:48:08	2005-12-10T13:02:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



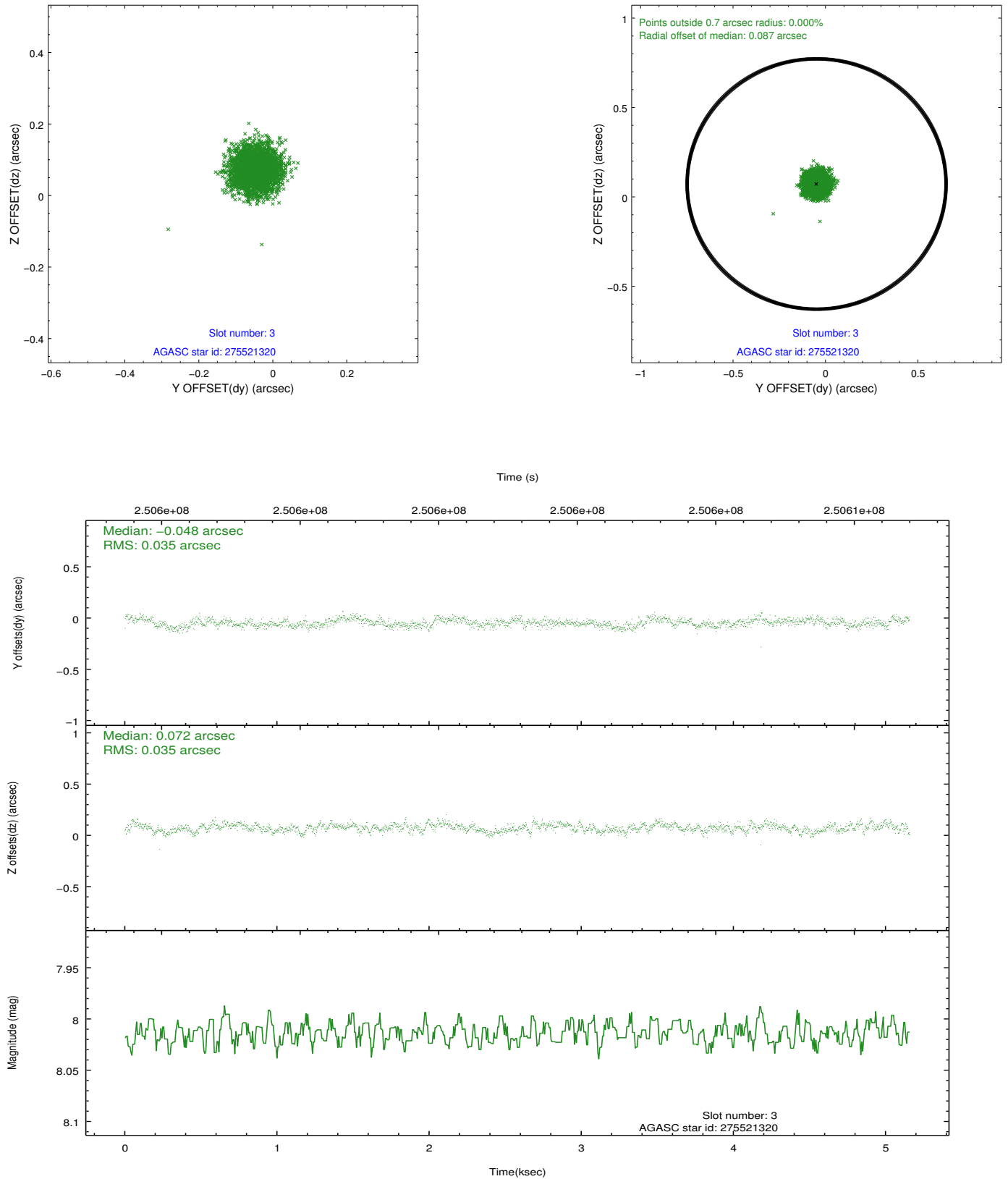


Slot Statistics

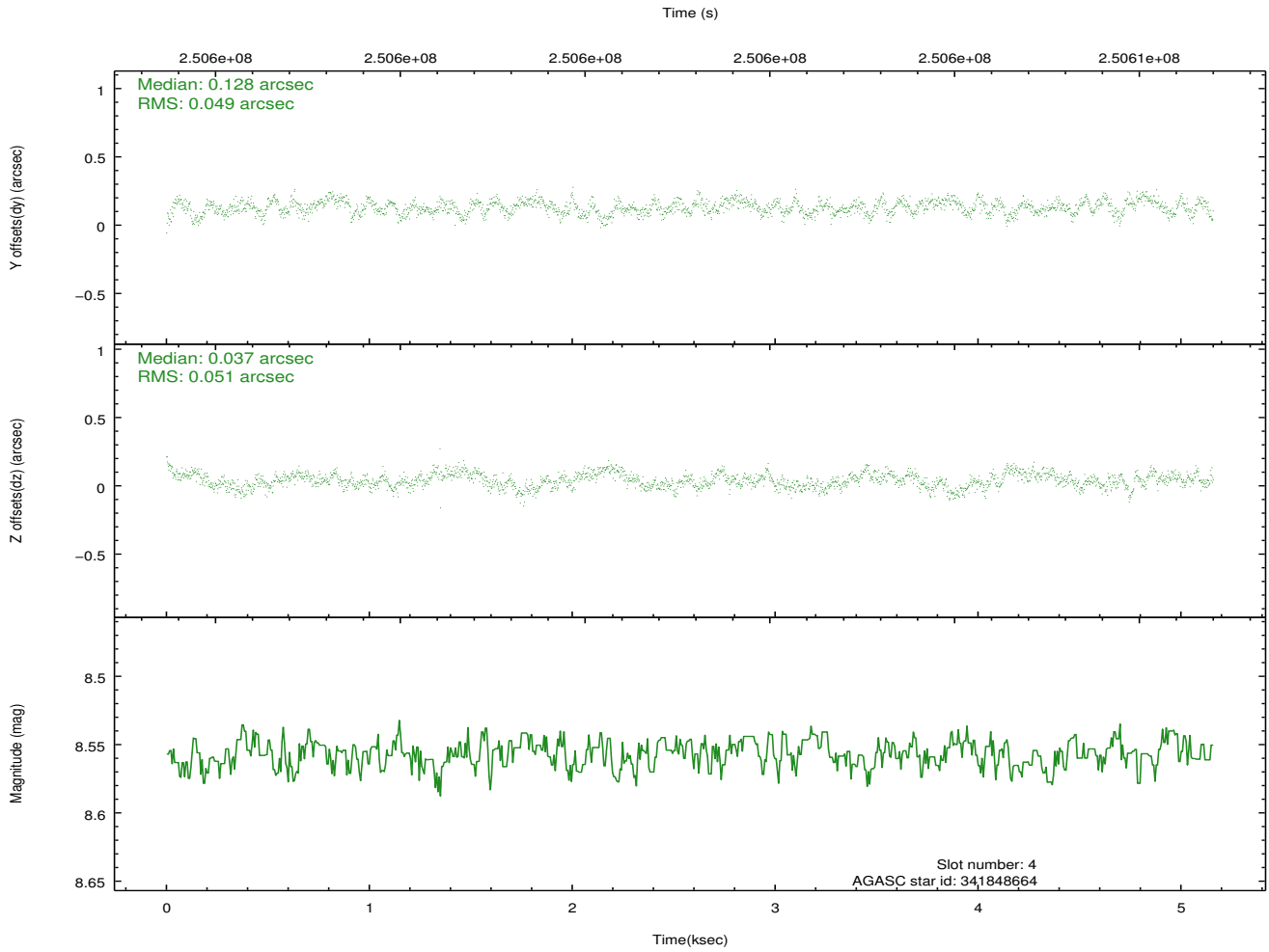
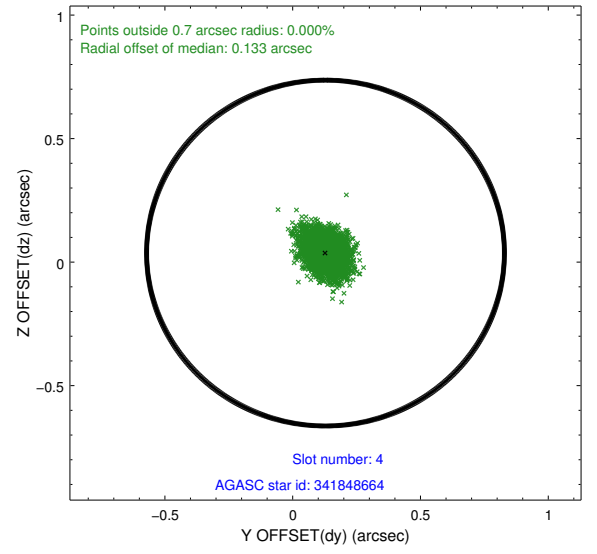
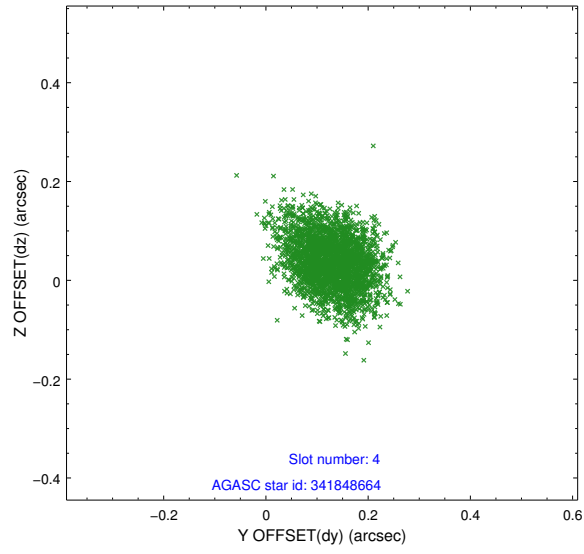
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1258	0.007	-0.064	0.010	0.018	0.000000	0.000000	934.51	-1728.04
1	FID	ACIS-S-2	7.11	1259	-0.082	-0.014	0.008	0.014	0.000000	0.000000	-760.82	-1733.70
2	FID	ACIS-S-4	7.20	1258	0.049	0.083	0.007	0.011	0.000000	0.000000	2151.31	175.02
3	GUIDE	275521320	8.01	2517	-0.048	0.072	0.053	0.083	268.582061	29.524593	1497.90	-773.78
4	GUIDE	341848664	8.56	2515	0.128	0.037	0.075	0.122	267.765030	30.233677	-1538.04	1174.88
5	GUIDE	273812992	7.21	2517	-0.090	-0.018	0.076	0.125	267.738613	29.995813	-1440.04	321.25
6	GUIDE	275526008	8.85	2517	0.040	0.029	0.068	0.114	268.301646	29.486721	669.15	-1096.81
7	GUIDE	341853776	7.82	2515	-0.037	-0.125	0.084	0.136	268.457068	30.370380	458.29	2113.82

## 2.4 Star Slots

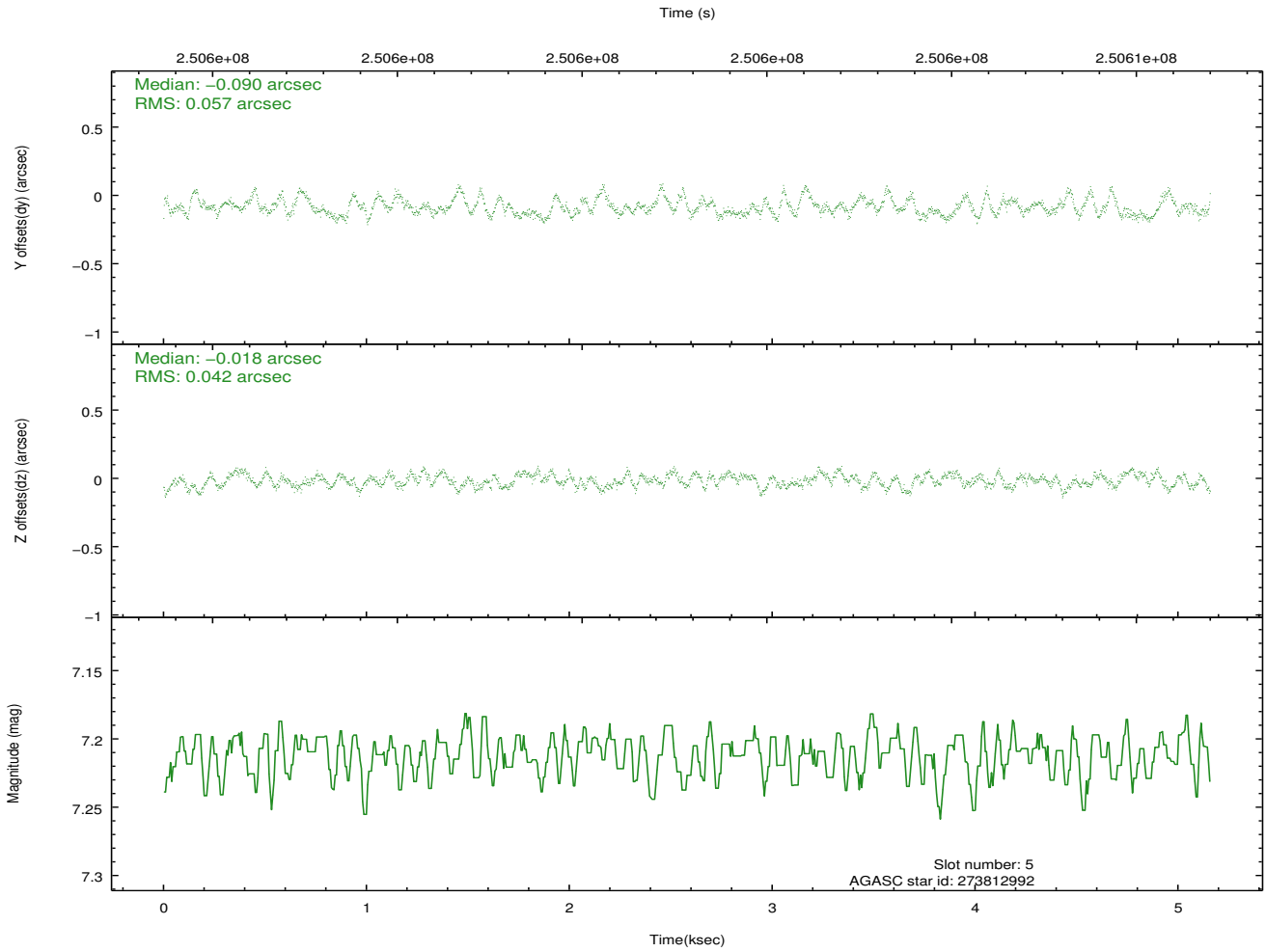
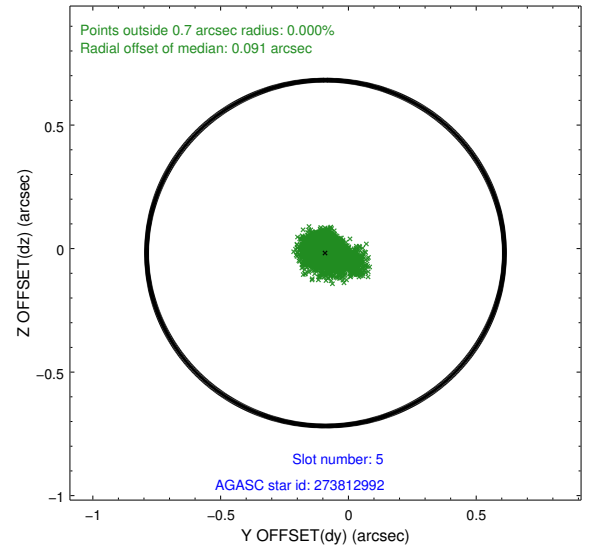
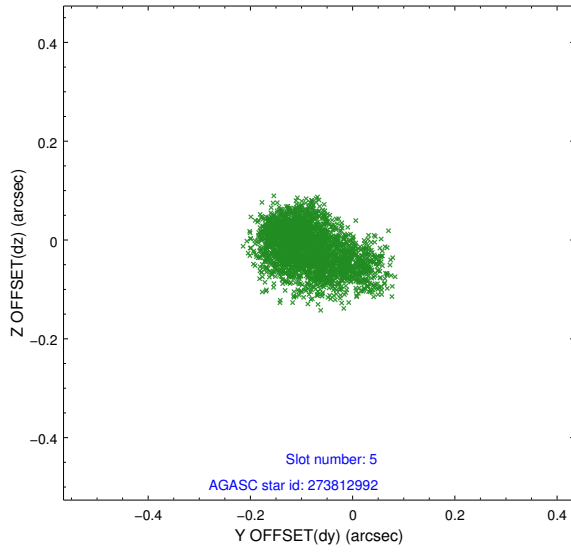
### 2.4.1 Slot 3



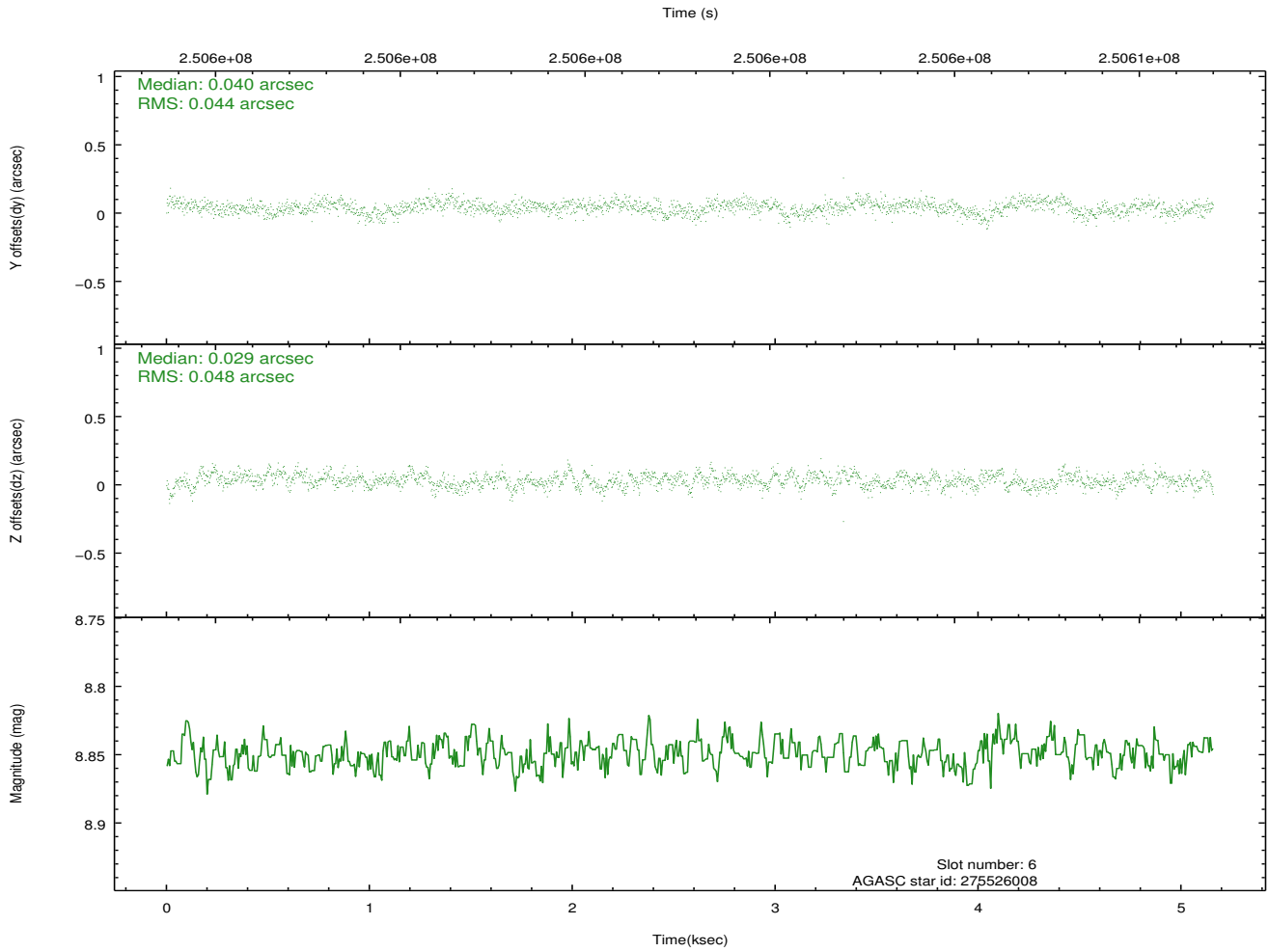
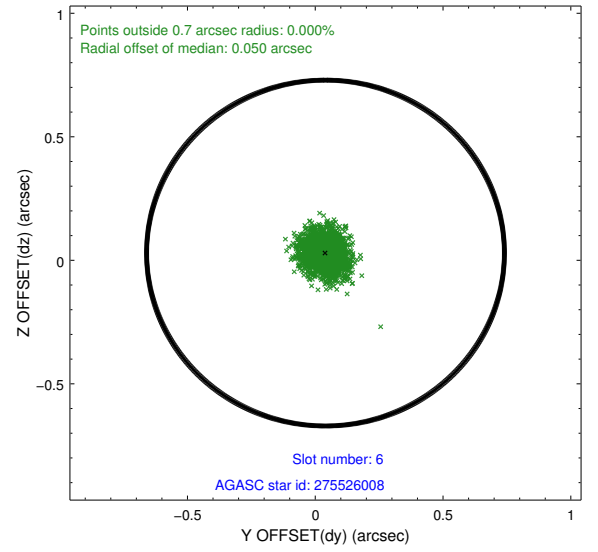
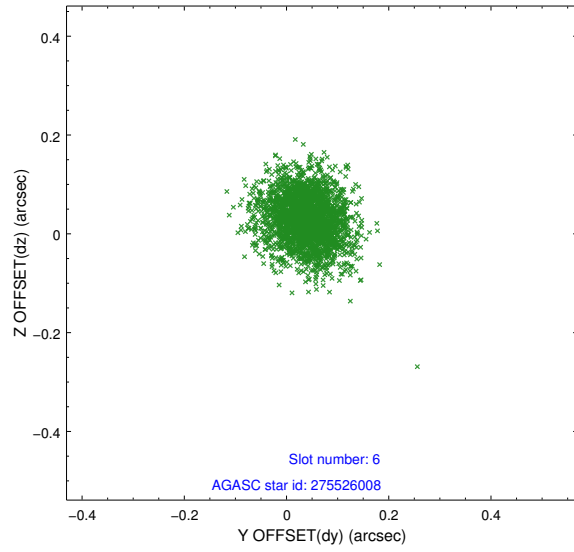
## 2.4.2 Slot 4



### 2.4.3 Slot 5

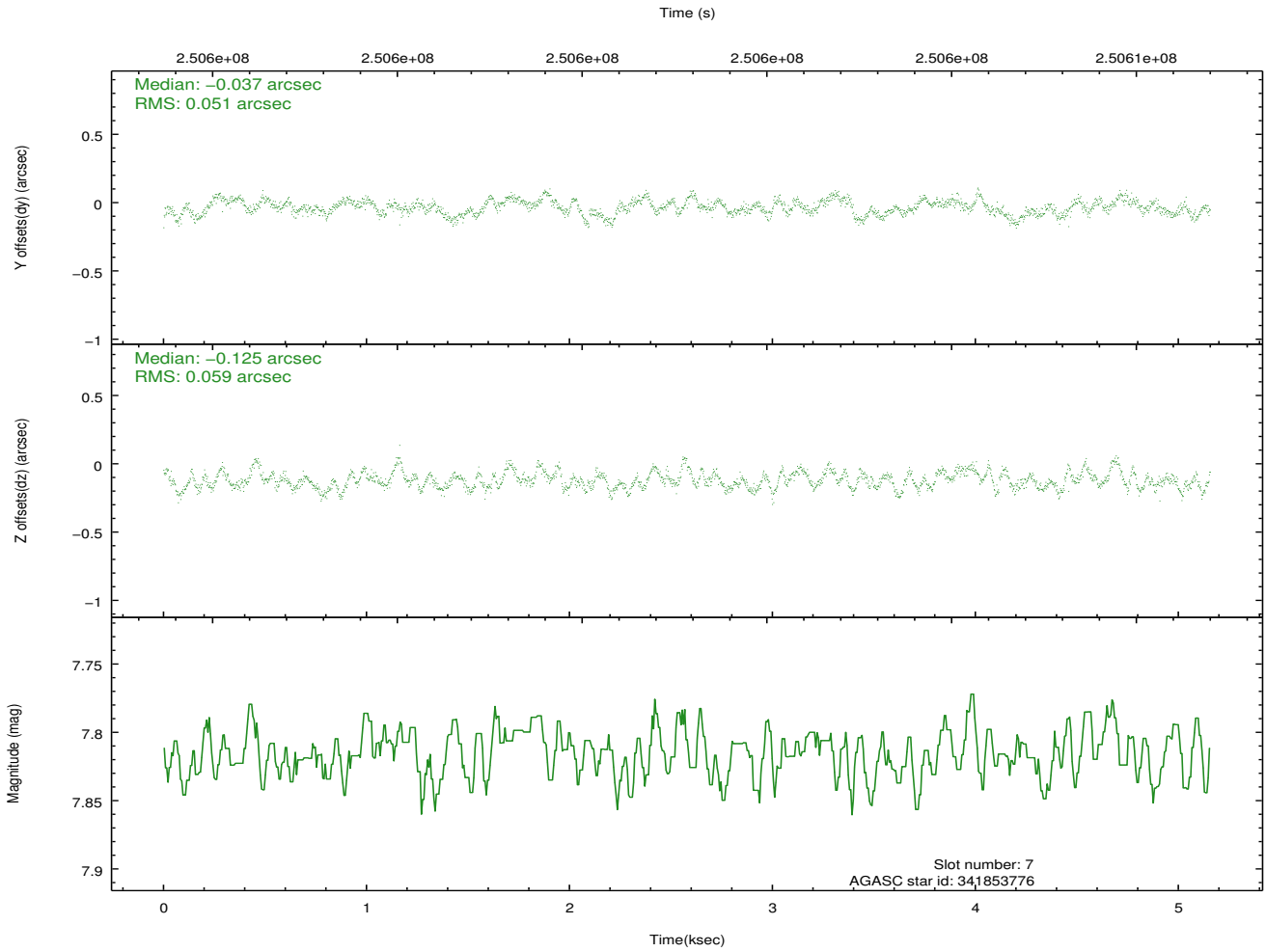
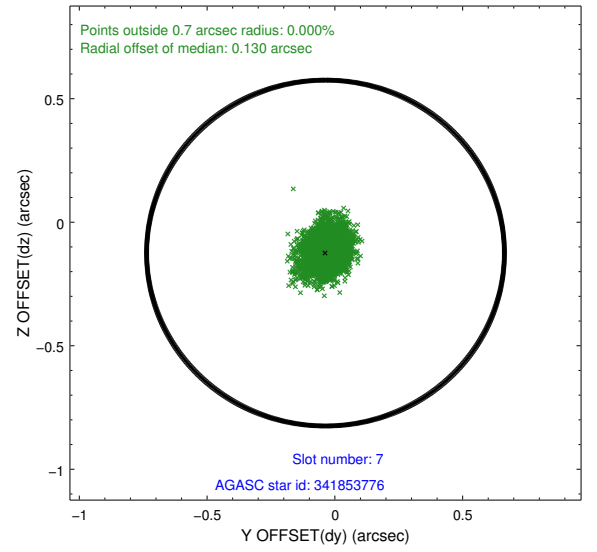
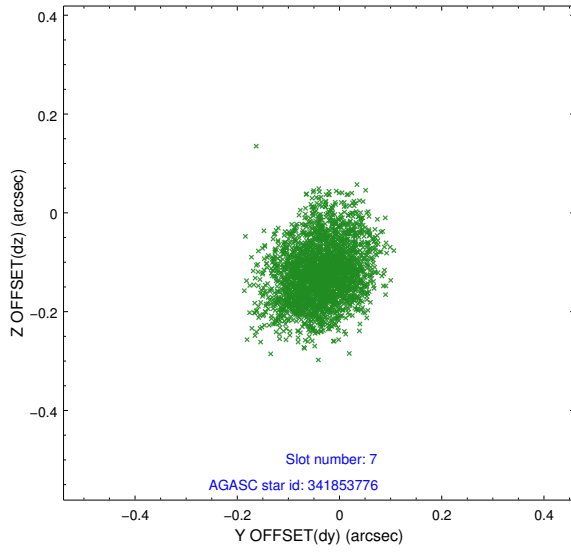


## 2.4.4 Slot 6



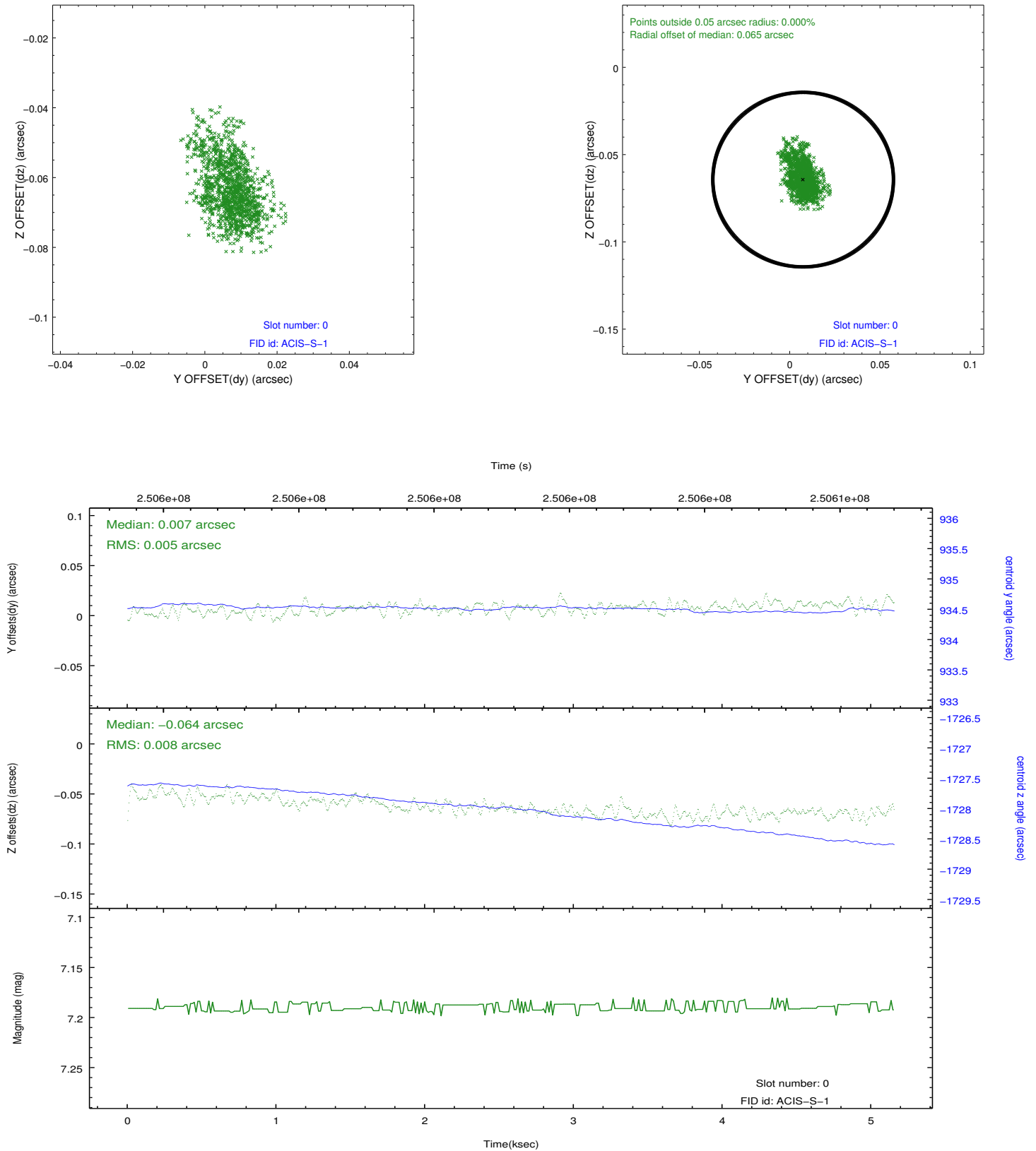


## 2.4.5 Slot 7

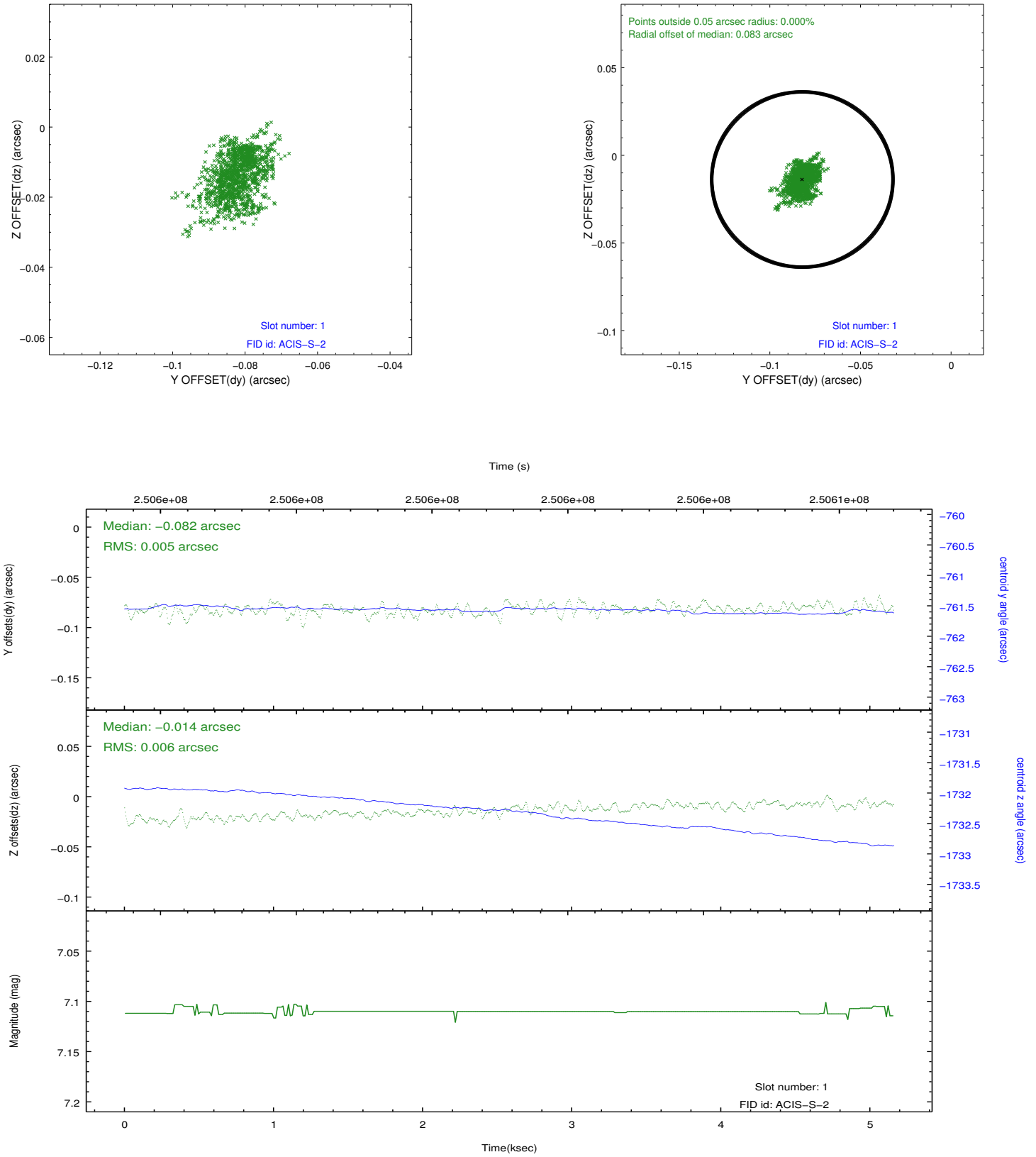


## 2.5 FID Slots

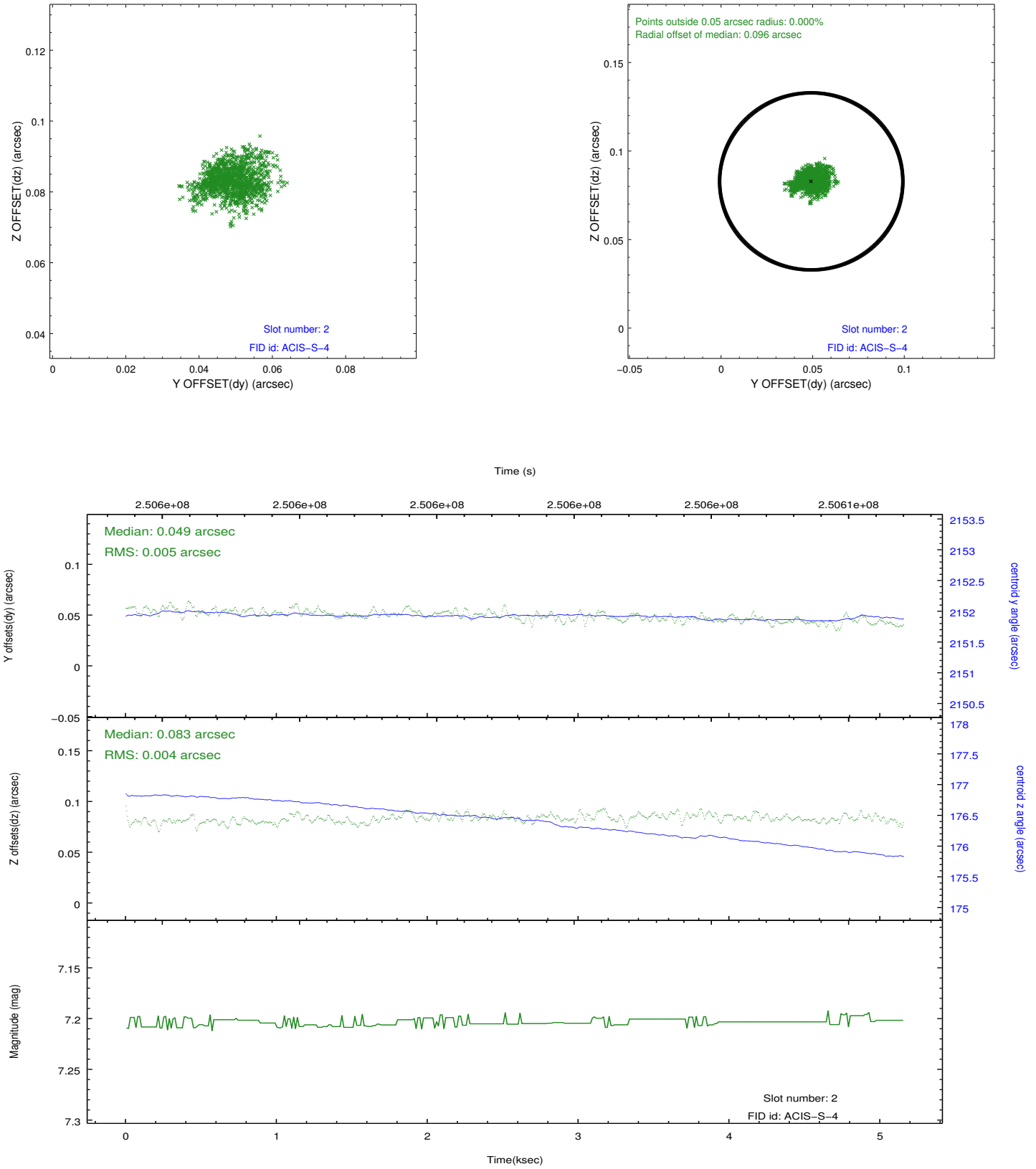
### 2.5.1 Slot 0



## 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)	2012.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.151999

### A.2 Comments