

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2021 - L2 Version 3  
Chandra X-Ray Center

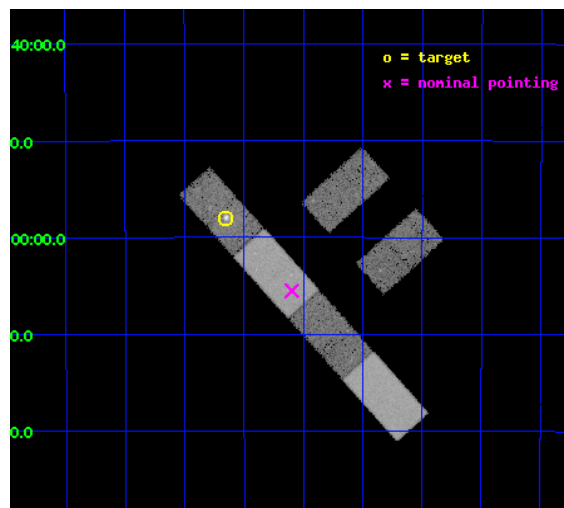
L2 Processing Date : Sep 23 2012

## 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	600155	Sequence number
obs_id	2021	Observation id
title	ORIGIN OF THE HARD EMISSION IN THE OPTICALLY INACTIVE E GALAXY IC4296 FROM HIGH RESOLUTION X-RAY AND RADIO OBSERVATIONS	Proposal titl
observer	DR. SILVIA PELLEGRINI	Principal investigator
object	IC4296	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	204.164042	Observer's specified target RA [deg]
dec_targ	-33.966528	Observer's specified target Dec [deg]
ra_nom	204.02437557546	Nominal RA [deg]
dec_nom	-34.092070776854	Nominal Dec [deg]
roll_nom	228.01791470092	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24224.399959907	Sum of GTIs [s]
livetime	23684.395737101	Livetime [s]
ontime2	24224.399959907	Sum of GTIs [s]
ontime3	24224.399959907	Sum of GTIs [s]
ontime5	24224.399959907	Sum of GTIs [s]
ontime6	24224.399959907	Sum of GTIs [s]
ontime7	24224.399959907	Sum of GTIs [s]
ontime8	24224.399959907	Sum of GTIs [s]
l2events	136782	Number of level 2 events

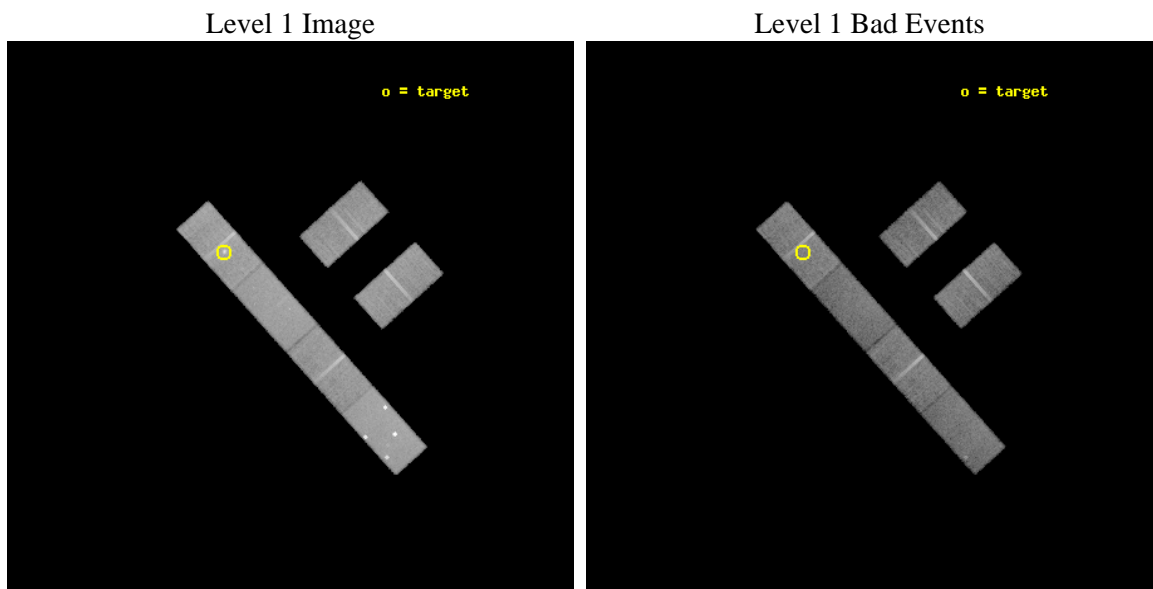




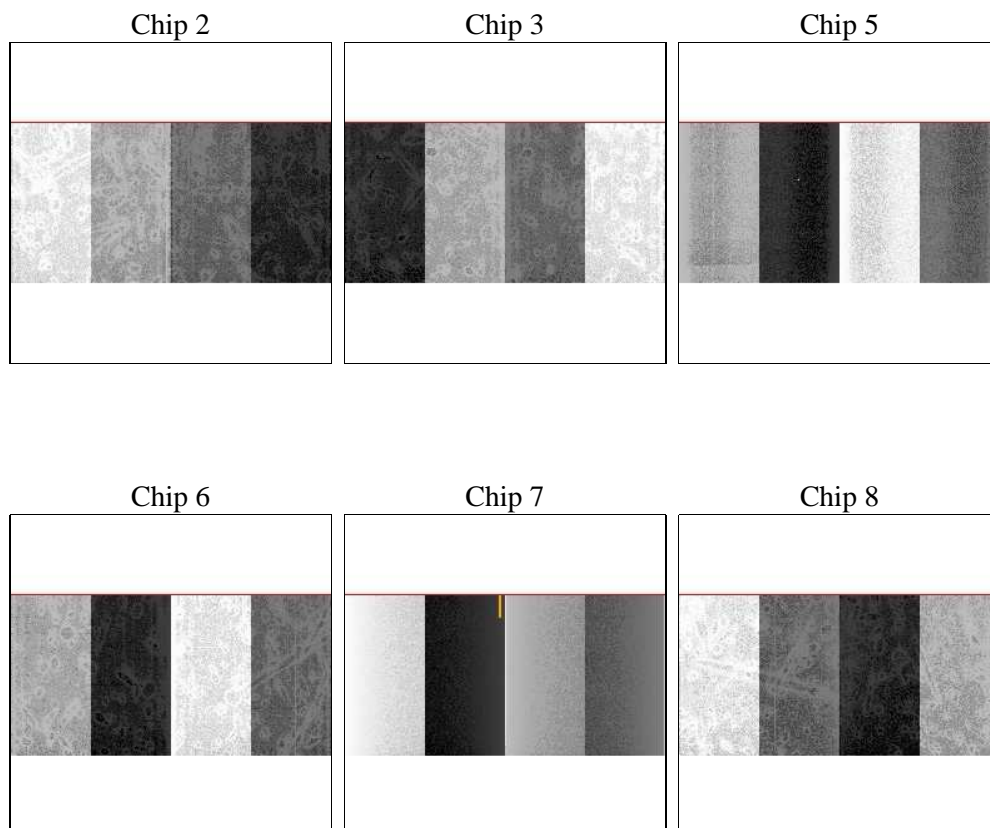
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	24224.399959907	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	24224.399959907	Sum of GTIs [s]
date	2012-09-23T16:14:12	Date and time of file creation	ontime3	24224.399959907	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	24224.399959907	Sum of GTIs [s]
			ontime6	24224.399959907	Sum of GTIs [s]
			ontime7	24224.399959907	Sum of GTIs [s]
			ontime8	24224.399959907	Sum of GTIs [s]
			l1events	632235	Number of level 1 events

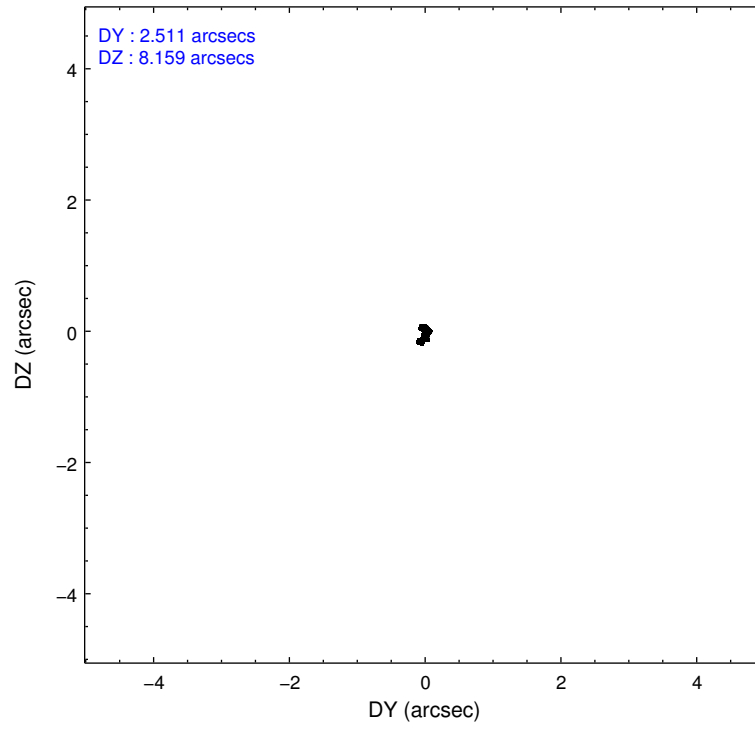
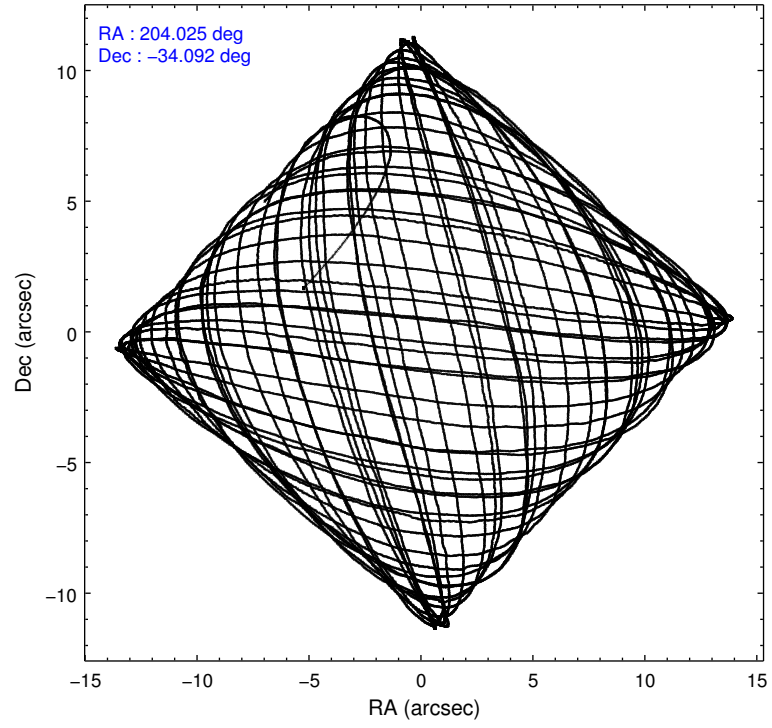
### 2.1.4 Events

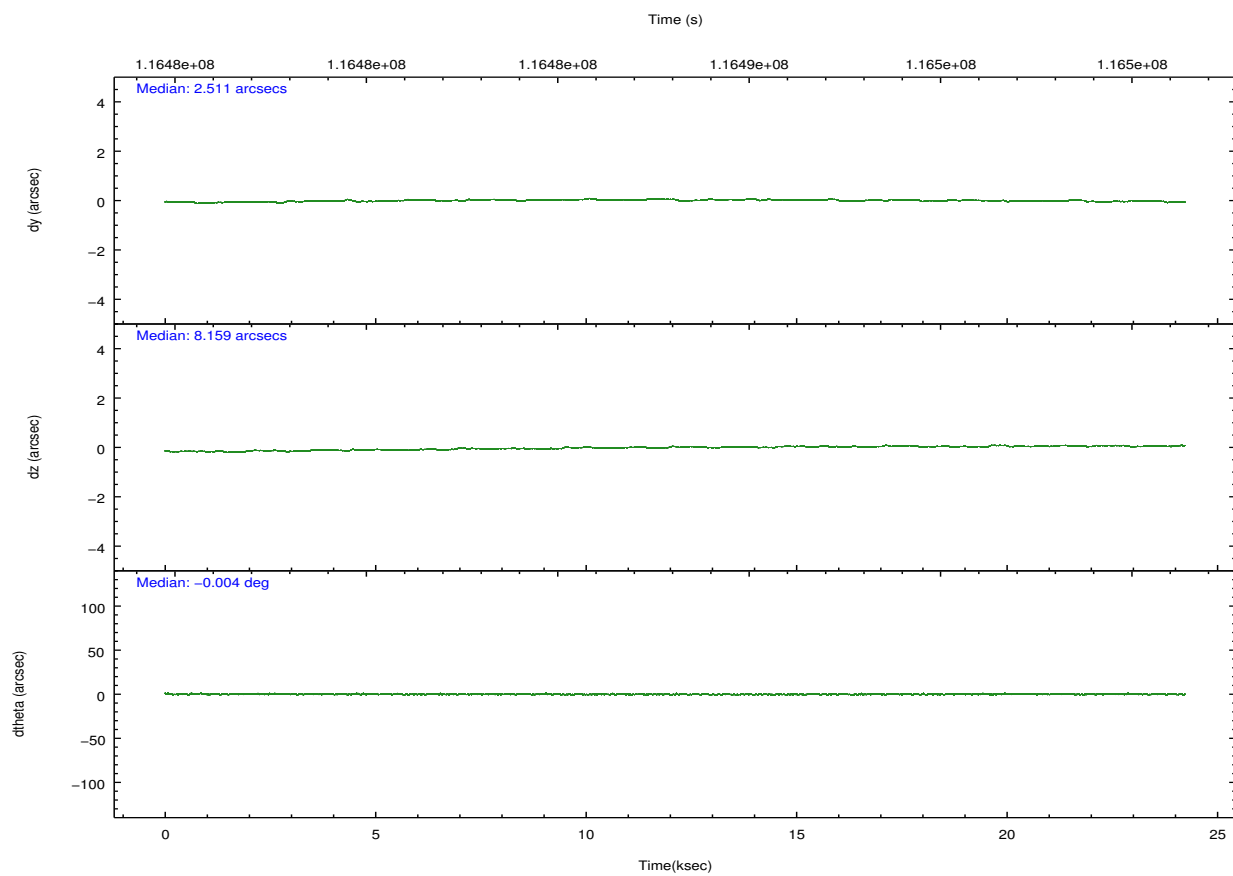
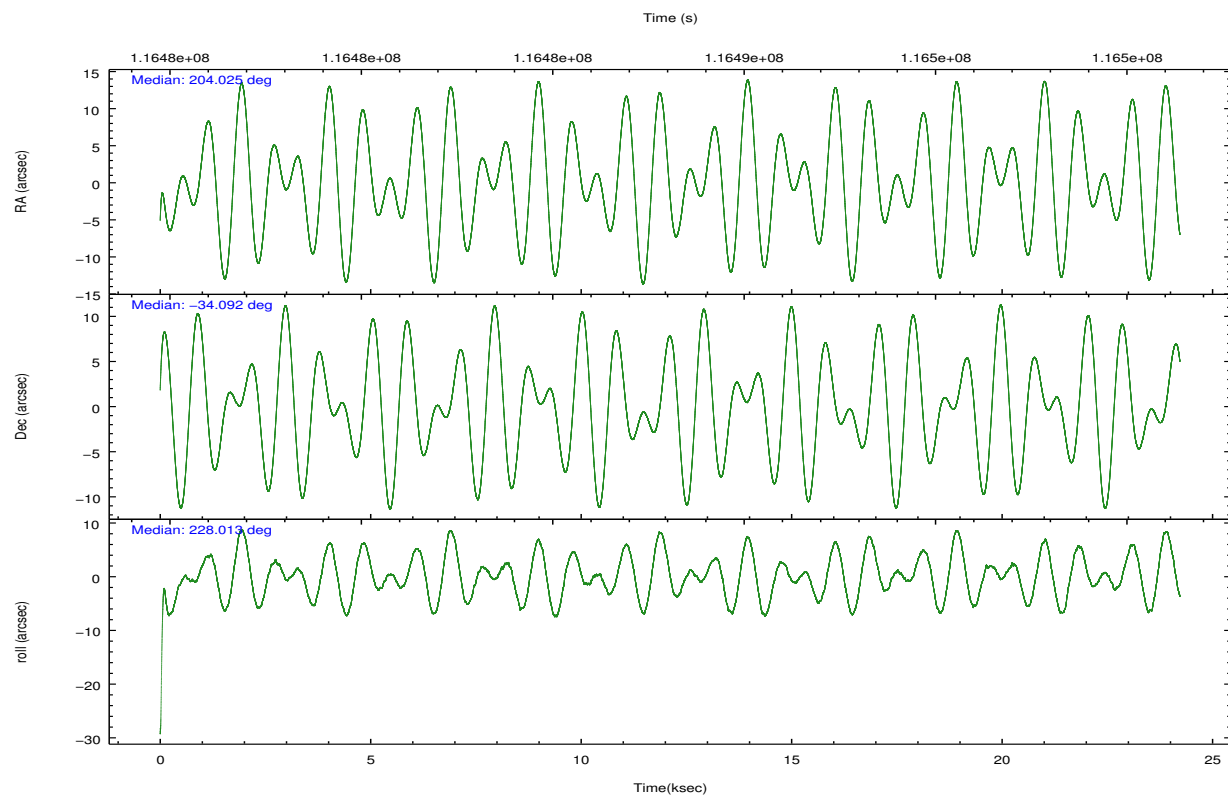
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	92748	84391	139886	90619	108198	116393	grade 0 events	4276	4407	27738	4587	5685	10853
rejected events	82730	74462	62762	79749	60974	90132		4%	5%	19%	5%	5%	9%
rejected %	89%	88%	44%	88%	56%	77%	grade 1 events	43	28	157	37	94	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	2054	1760	17308	2047	9850	5076
								2%	2%	12%	2%	9%	4%
							grade 3 events	1064	1131	3108	1199	4711	2549
								1%	1%	2%	1%	4%	2%
							grade 4 events	1083	1094	2895	1205	4691	2369
								1%	1%	2%	1%	4%	2%
							grade 5 events	2908	3108	9402	3381	10078	4286
								3%	3%	6%	3%	9%	3%
							grade 6 events	1609	1598	26605	1895	22616	5646
								1%	1%	19%	2%	20%	4%
							grade 7 events	79711	71265	52673	76268	50473	85558
								85%	84%	37%	84%	46%	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	204.030863	204.0243755754643	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-34.065350	-34.09207077685409	Subarray start row	257	257
[deg] Pointing Roll	227.864940	228.0179147009167	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)	116476176.184000	116475181.09819			
Observation start date	2001-09-10T02:28:32	2001-09-10T02:13:01			
[s] Observation end time (MET)	116500176.184000	116500721.5367			
Observation end date	2001-09-10T09:08:32	2001-09-10T09:18:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



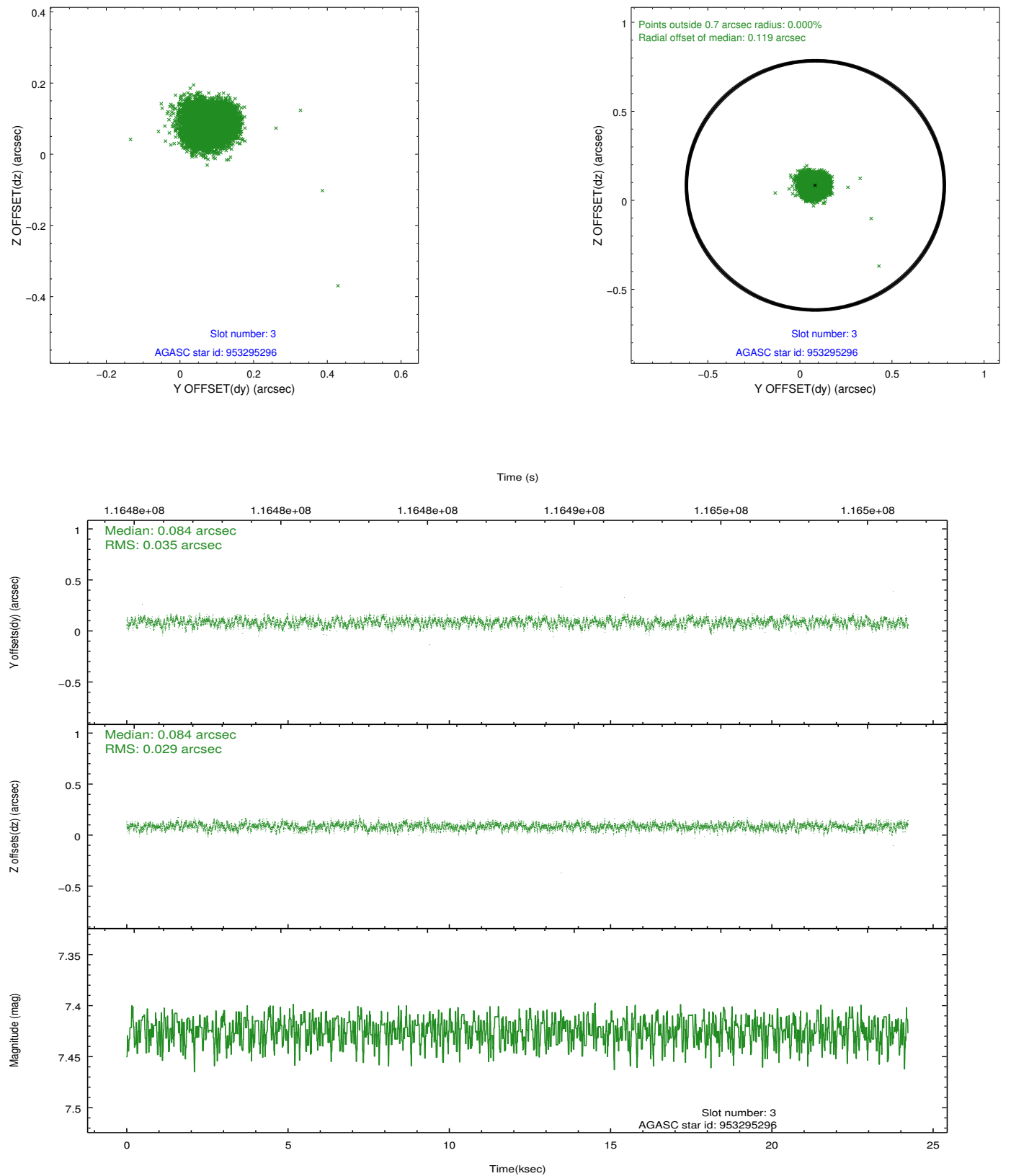


### Slot Statistics

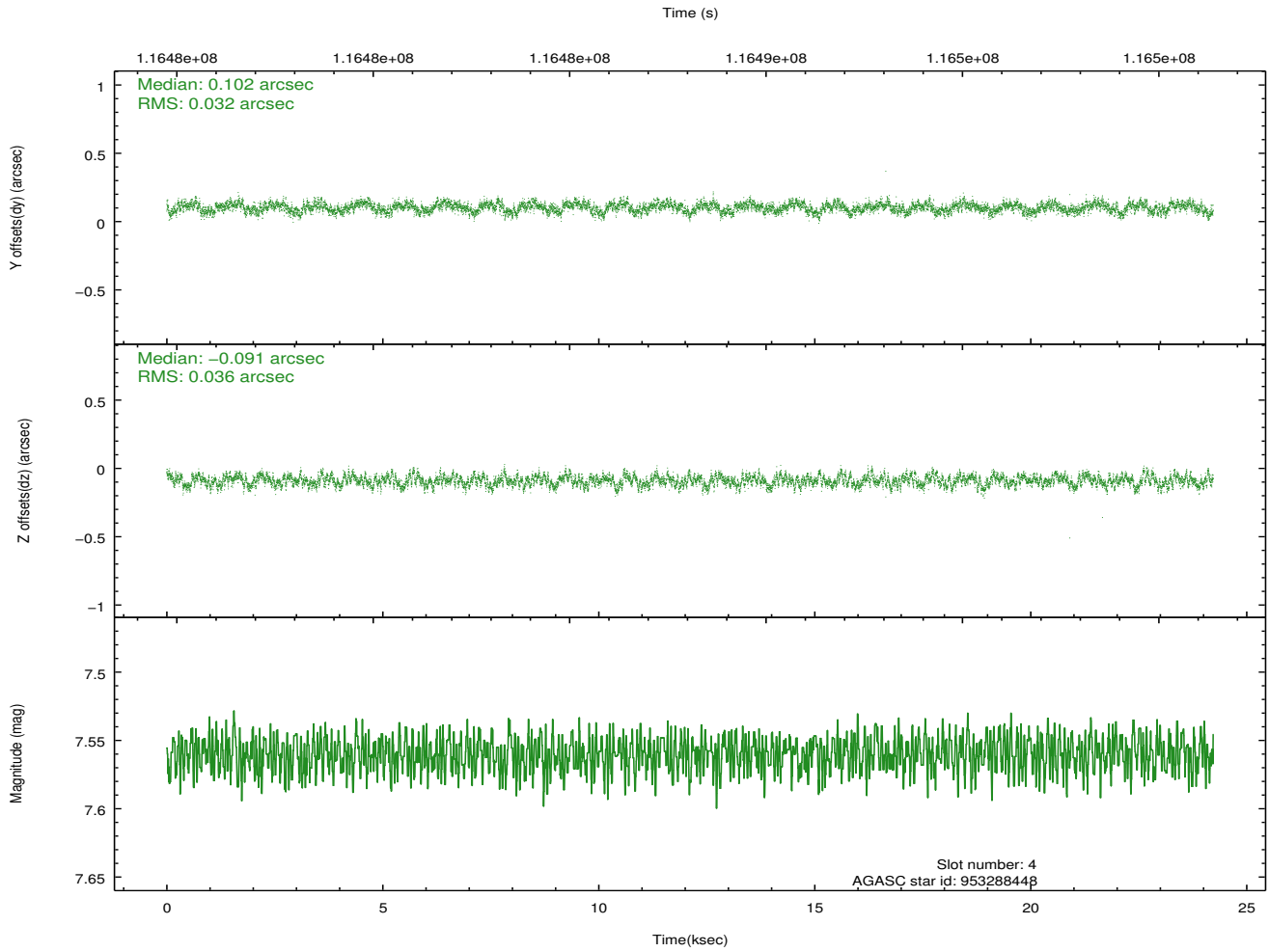
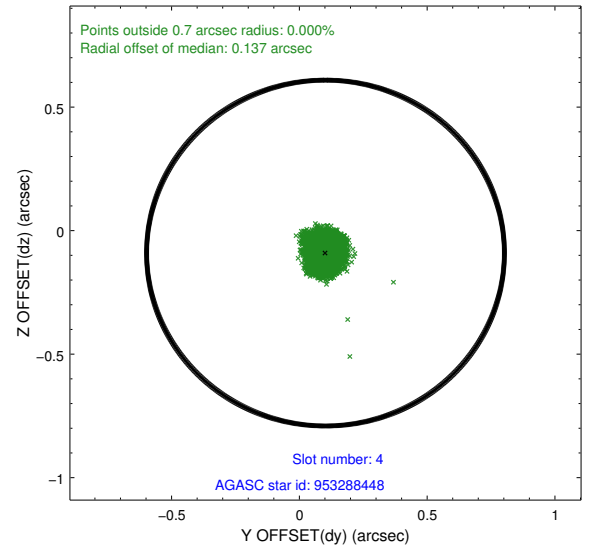
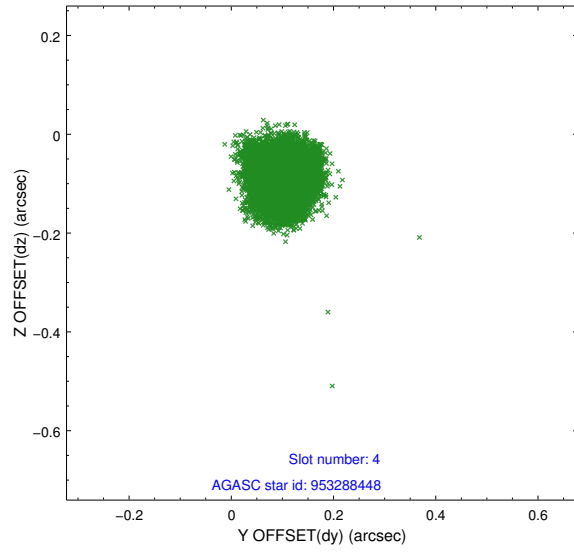
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	5909	-0.005	-0.009	0.007	0.012	0.000000	0.000000	-755.15	-1729.34
1	FID	ACIS-S-4	7.19	5909	-0.051	0.005	0.006	0.011	0.000000	0.000000	2158.03	179.02
2	FID	ACIS-S-5	7.24	5909	0.024	0.013	0.008	0.013	0.000000	0.000000	-1807.79	172.86
3	GUIDE	953295296	7.42	11819	0.084	0.084	0.048	0.076	203.563852	-34.387568	1794.89	-247.98
4	GUIDE	953288448	7.56	11817	0.102	-0.091	0.052	0.081	203.869544	-34.017546	197.32	-471.95
5	GUIDE	953288640	7.64	11818	-0.020	-0.041	0.054	0.085	203.543121	-34.069013	989.73	-1067.18
6	GUIDE	952779024	8.62	11818	-0.175	-0.090	0.058	0.092	204.034661	-33.479119	-1571.24	-1407.43
7	GUIDE	953296432	9.00	11813	0.010	0.139	0.071	0.114	204.411860	-34.306423	-113.68	1424.10

## 2.4 Star Slots

### 2.4.1 Slot 3

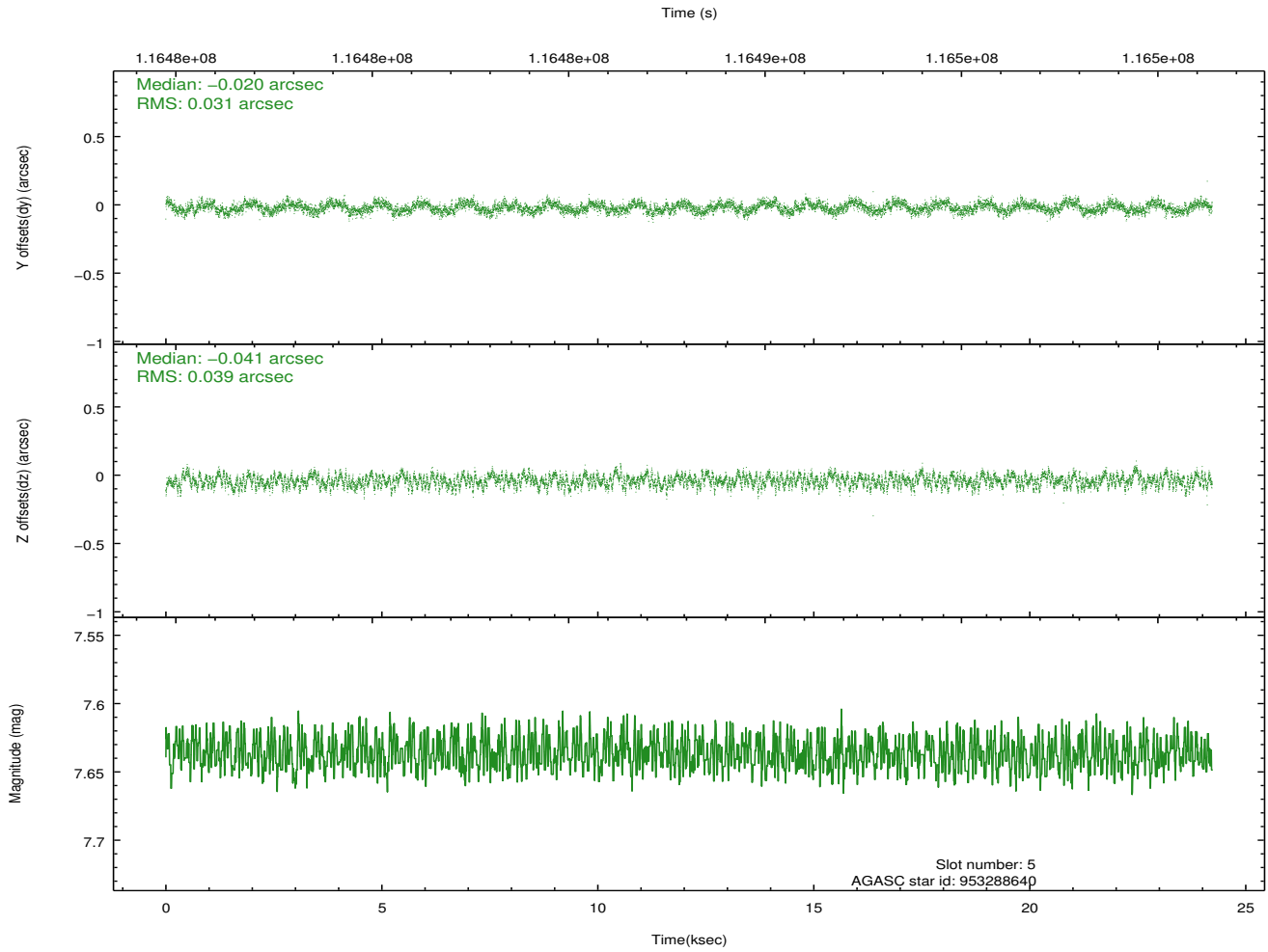
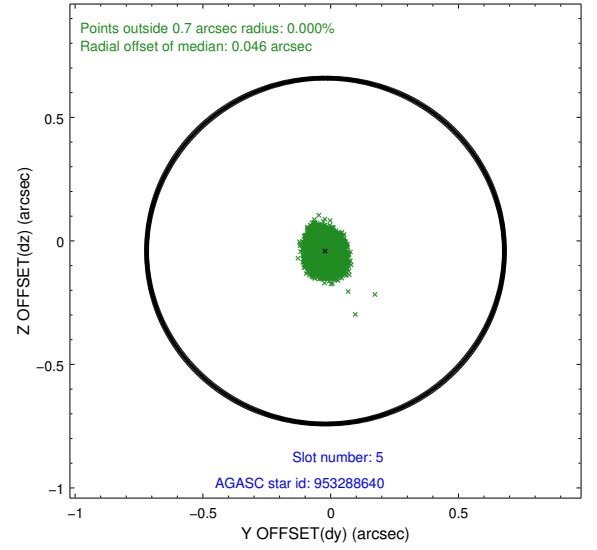
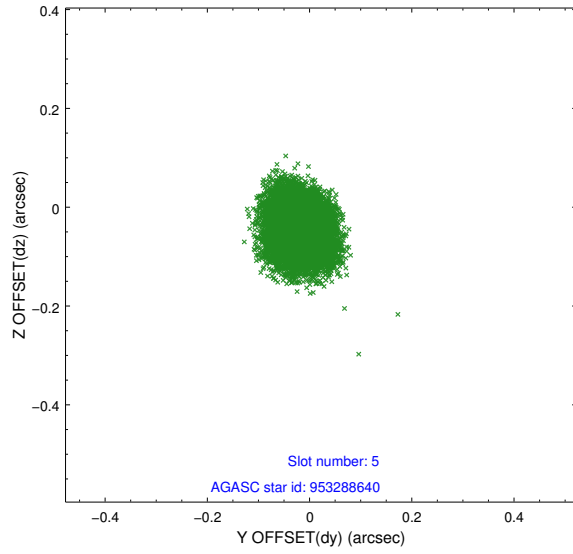


## 2.4.2 Slot 4

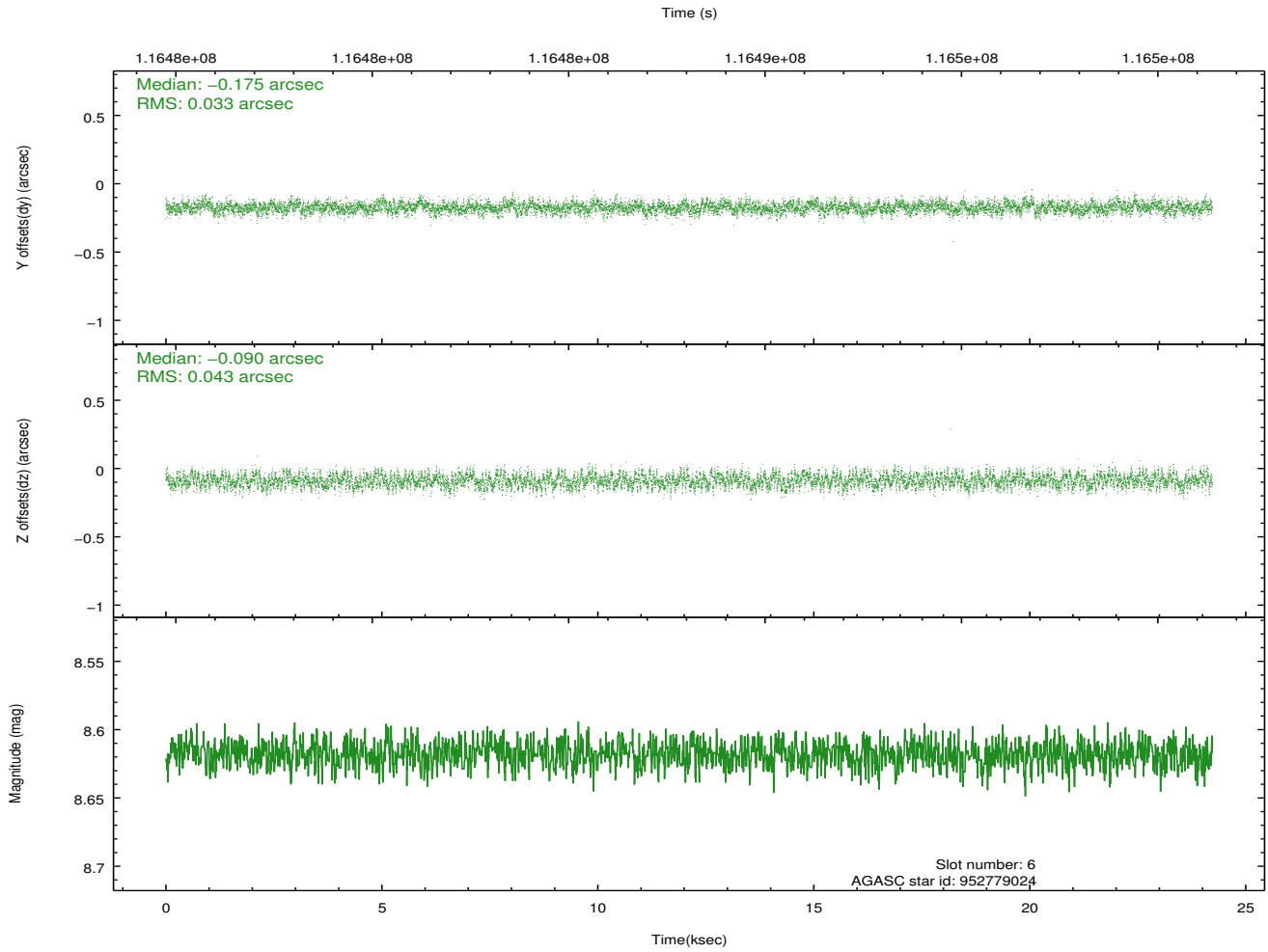
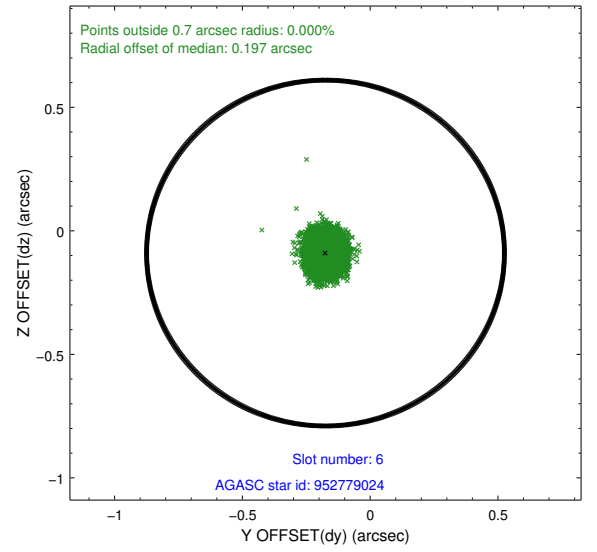
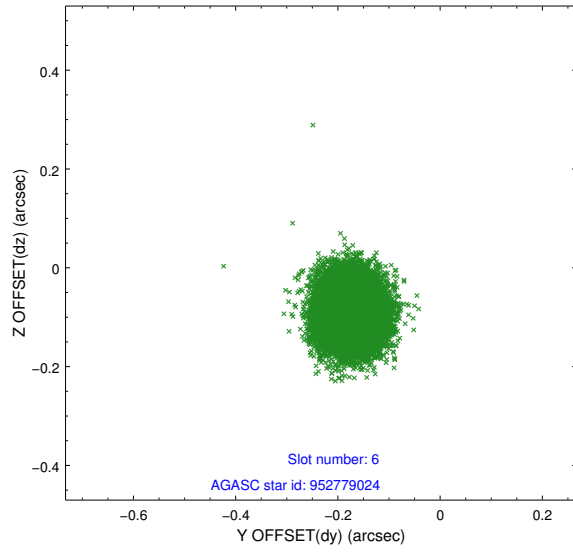




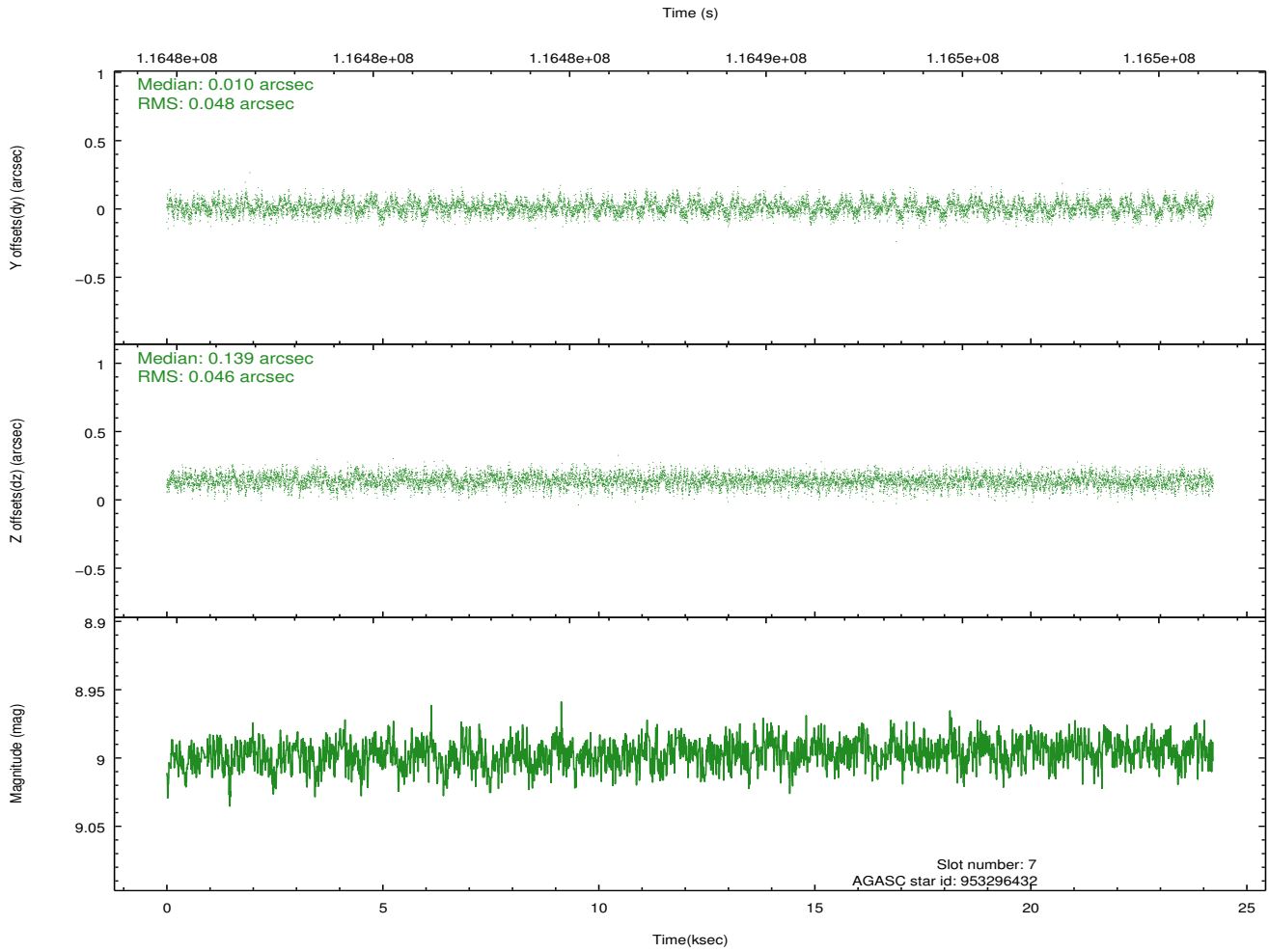
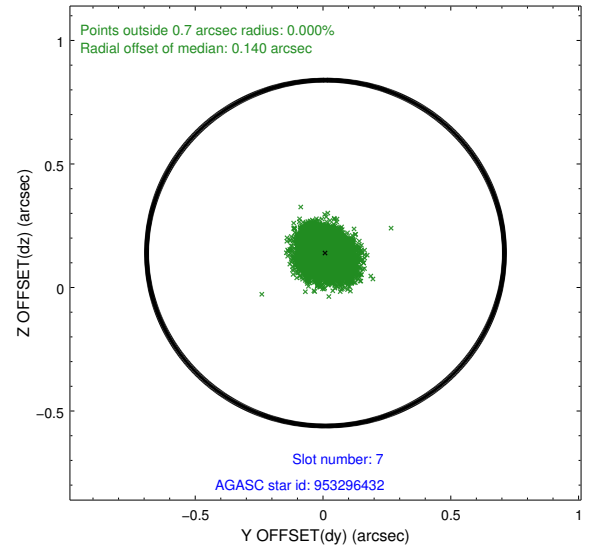
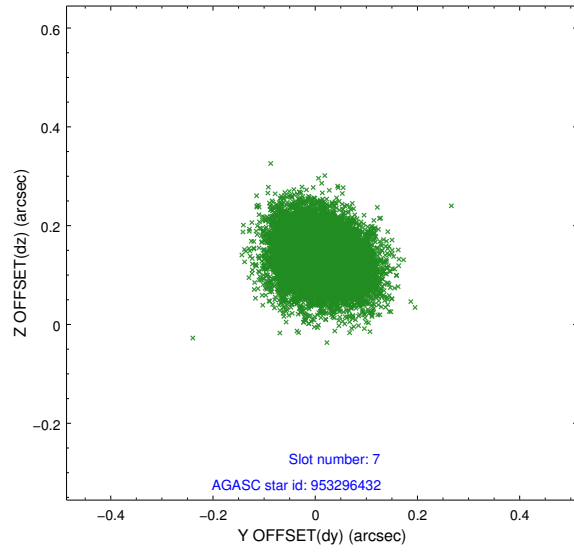
### 2.4.3 Slot 5



## 2.4.4 Slot 6

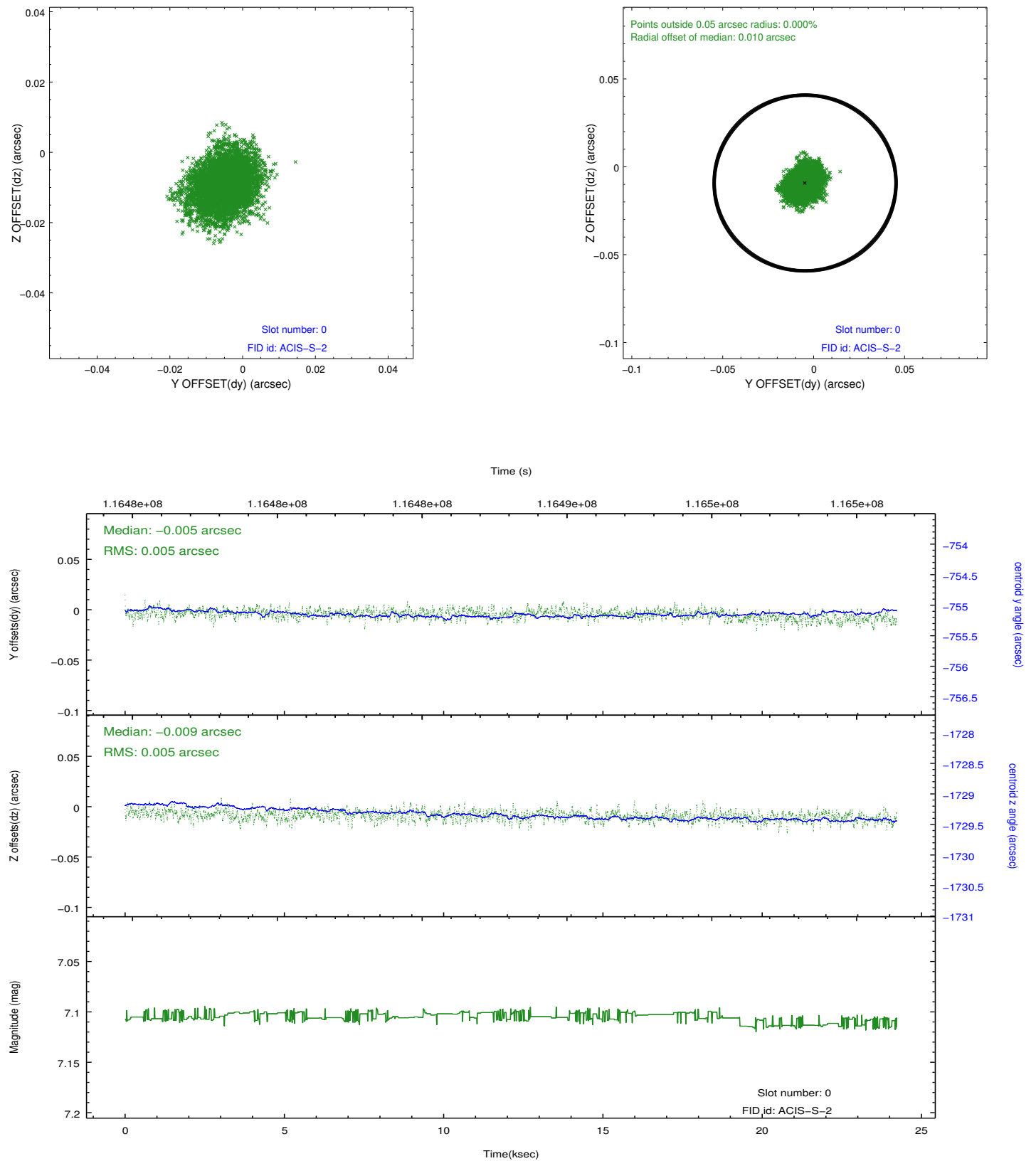


## 2.4.5 Slot 7

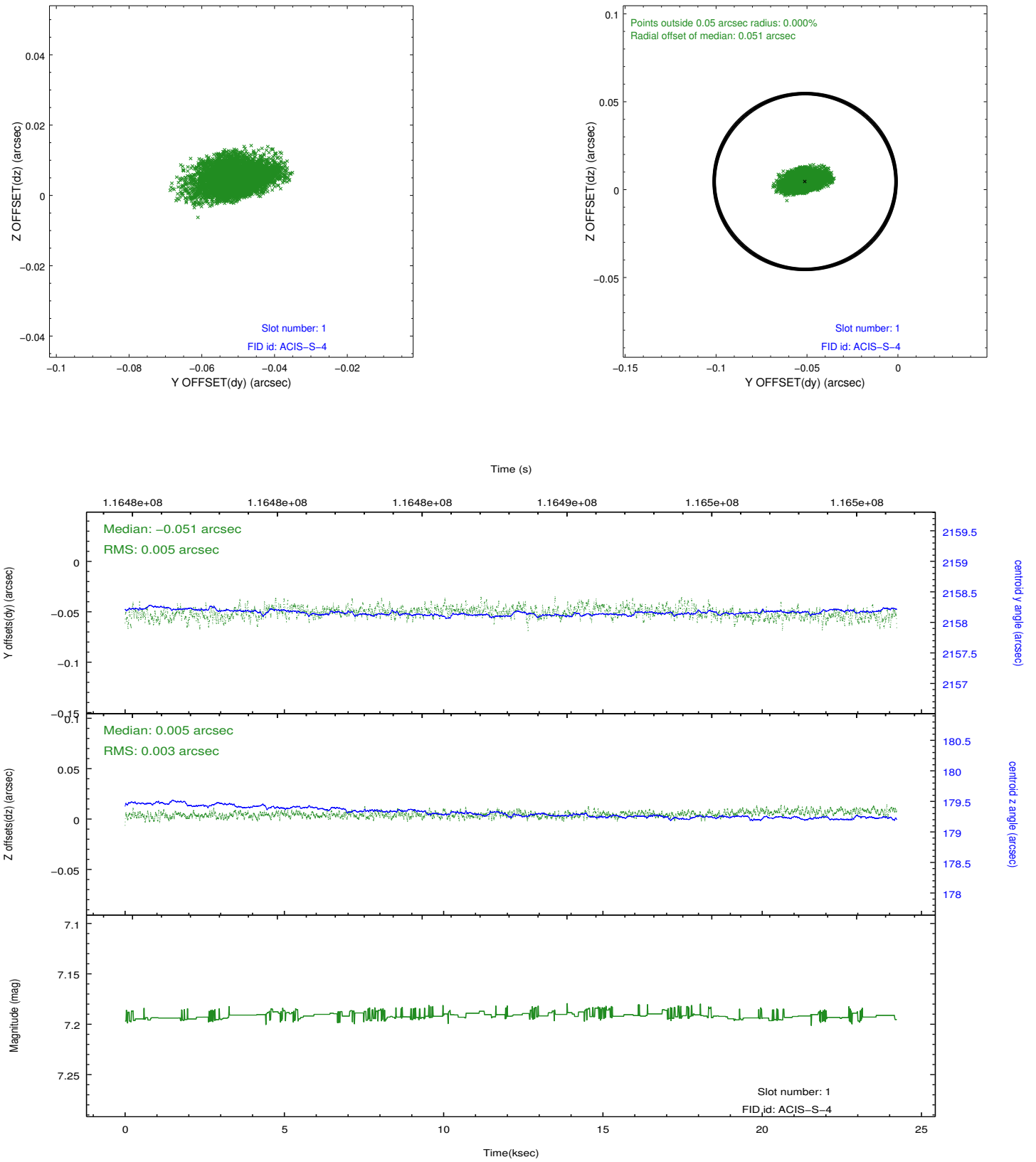


## 2.5 FID Slots

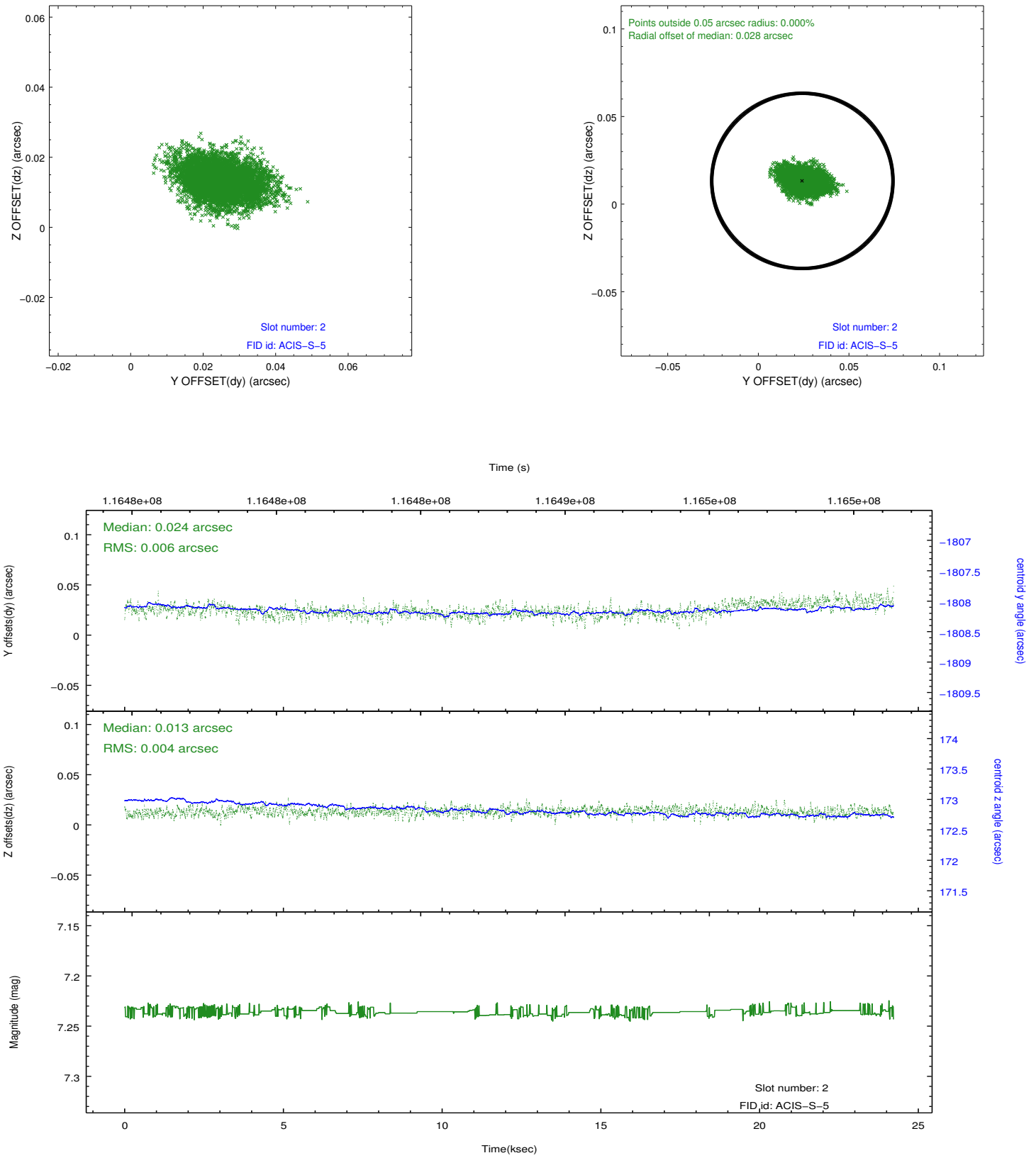
### 2.5.1 Slot 0



## 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)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.224

### A.2 Comments