

# V&V Reference Report

## L2 ASCDS Version : 10.5.2

Observation 19484 - L2 Version 1  
Chandra X-Ray Center

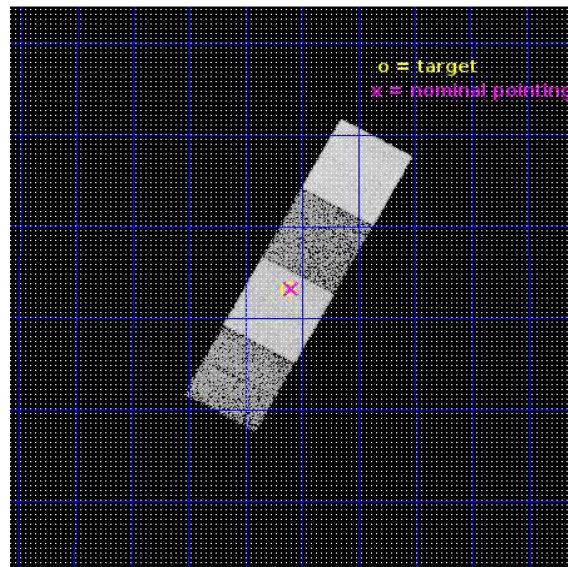
L2 Processing Date : Jan 11 2017

## 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

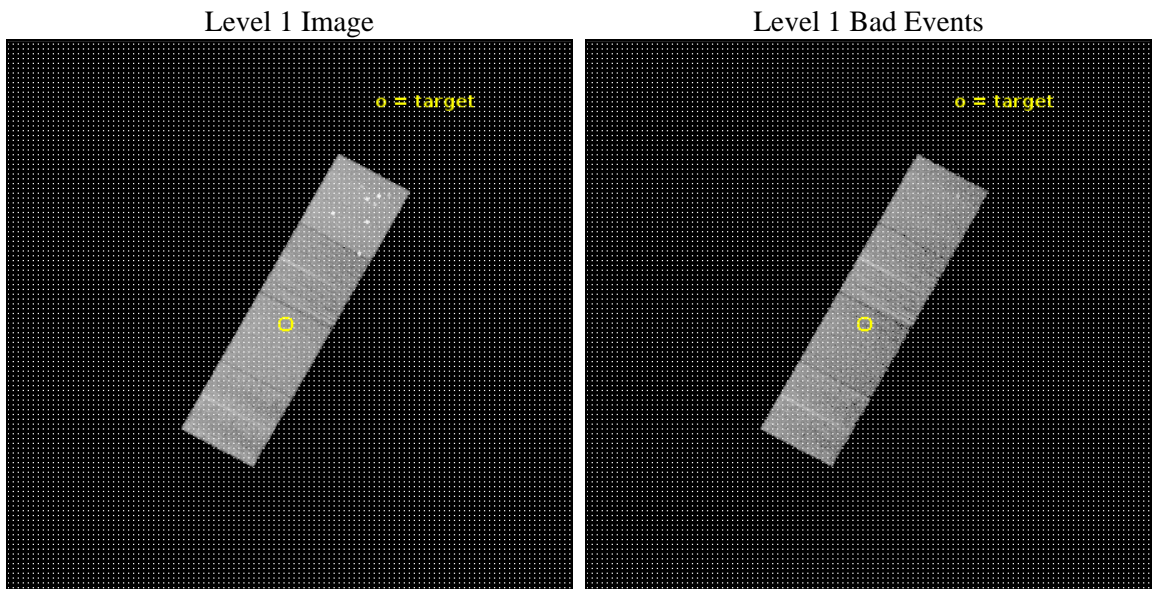
seq_num	703332	Sequence number
obs_id	19484	Observation id
title	UNDERSTANDING THE ROLE OF AGN IN TRANSITIONING GALAXI	Proposal tit
observer	Dr. Laurantne Lanz	Principal investigator
object	spog1562	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.53	Observer's specified target RA [deg]
dec_targ	37.886111	Observer's specified target Dec [deg]
ra_nom	138.52364266491	Nominal RA [deg]
dec_nom	37.887013039306	Nominal Dec [deg]
roll_nom	118.74784342485	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10062.60007751	Sum of GTIs [s]
livetime	9931.1247995188	Livetime [s]
ontime5	10062.60007751	Sum of GTIs [s]
ontime6	10062.60007751	Sum of GTIs [s]
ontime7	10062.60007751	Sum of GTIs [s]
ontime8	10062.60007751	Sum of GTIs [s]
l2events	104961	Number of level 2 events



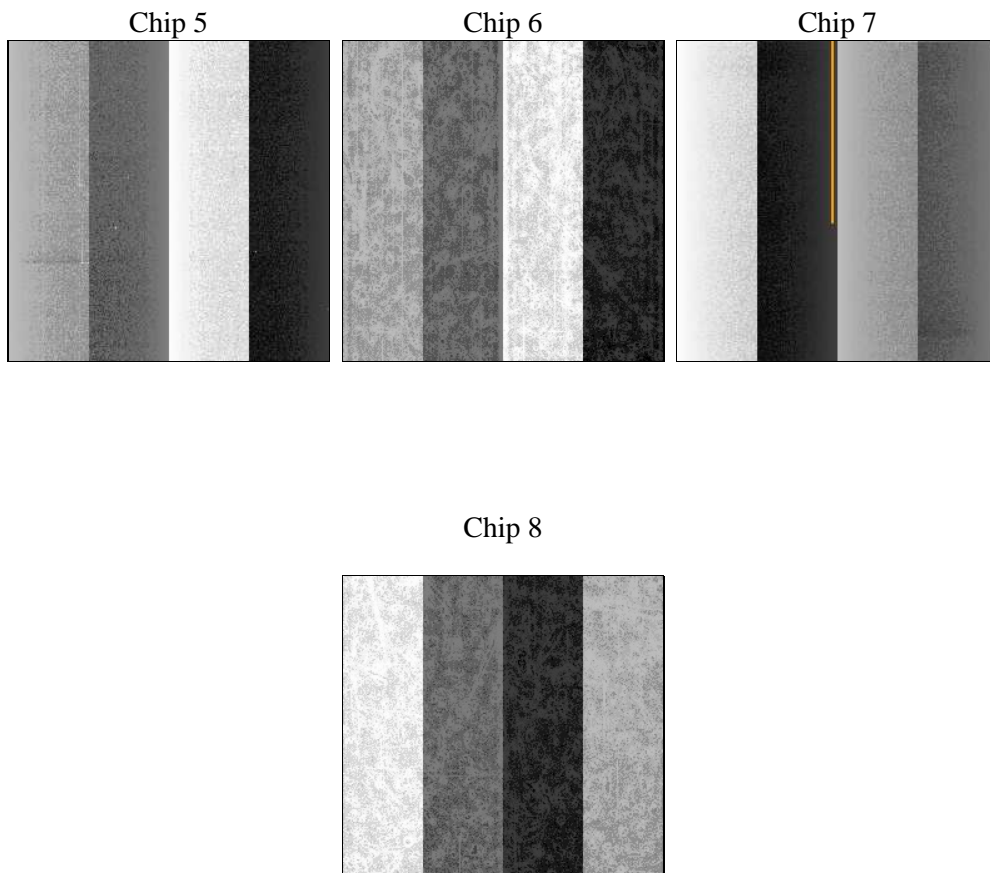
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10062.60007751	Sum of GTIs [s]
caldsver	4.7.3	&#160	ontime5	10062.60007751	Sum of GTIs [s]
date	2017-01-11T19:41:12	Date and time of file creation	ontime6	10062.60007751	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10062.60007751	Sum of GTIs [s]
			ontime8	10062.60007751	Sum of GTIs [s]
			l1events	384232	Number of level 1 events

### 2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	126696	73954	92264	91318
rejected events	58482	65869	52577	67579
rejected %	46%	89%	56%	74%

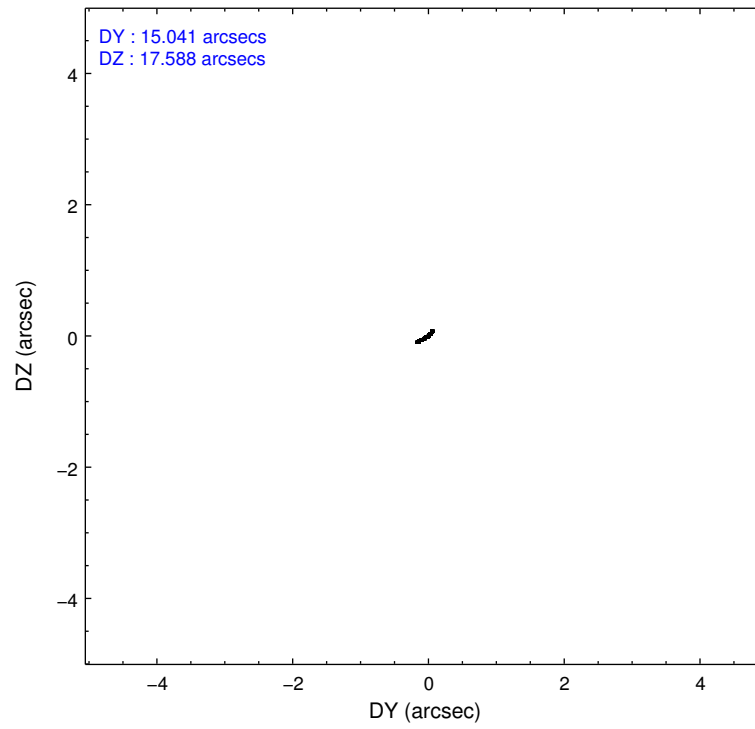
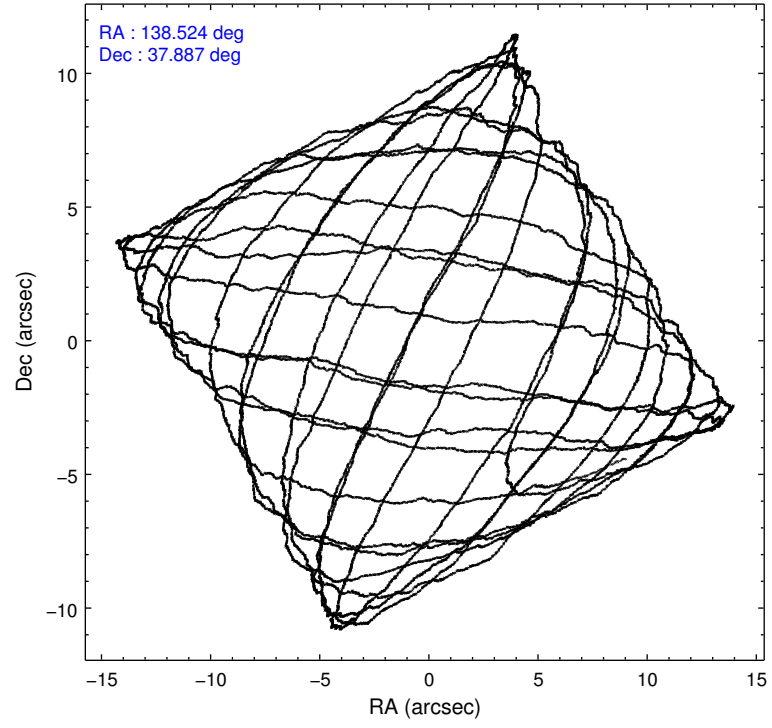
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	14106	2612	3338	6727
	11%	3%	3%	7%
grade 1 events	612	40	111	69
	0%	0%	0%	0%
grade 2 events	19496	1916	8378	5923
	15%	2%	9%	6%
grade 3 events	2243	786	3080	2423
	1%	1%	3%	2%
grade 4 events	2458	773	3064	2291
	1%	1%	3%	2%
grade 5 events	7814	3394	9011	4957
	6%	4%	9%	5%
grade 6 events	29931	2000	21834	6382
	23%	2%	23%	6%
grade 7 events	50036	62433	43448	62546
	39%	84%	47%	68%

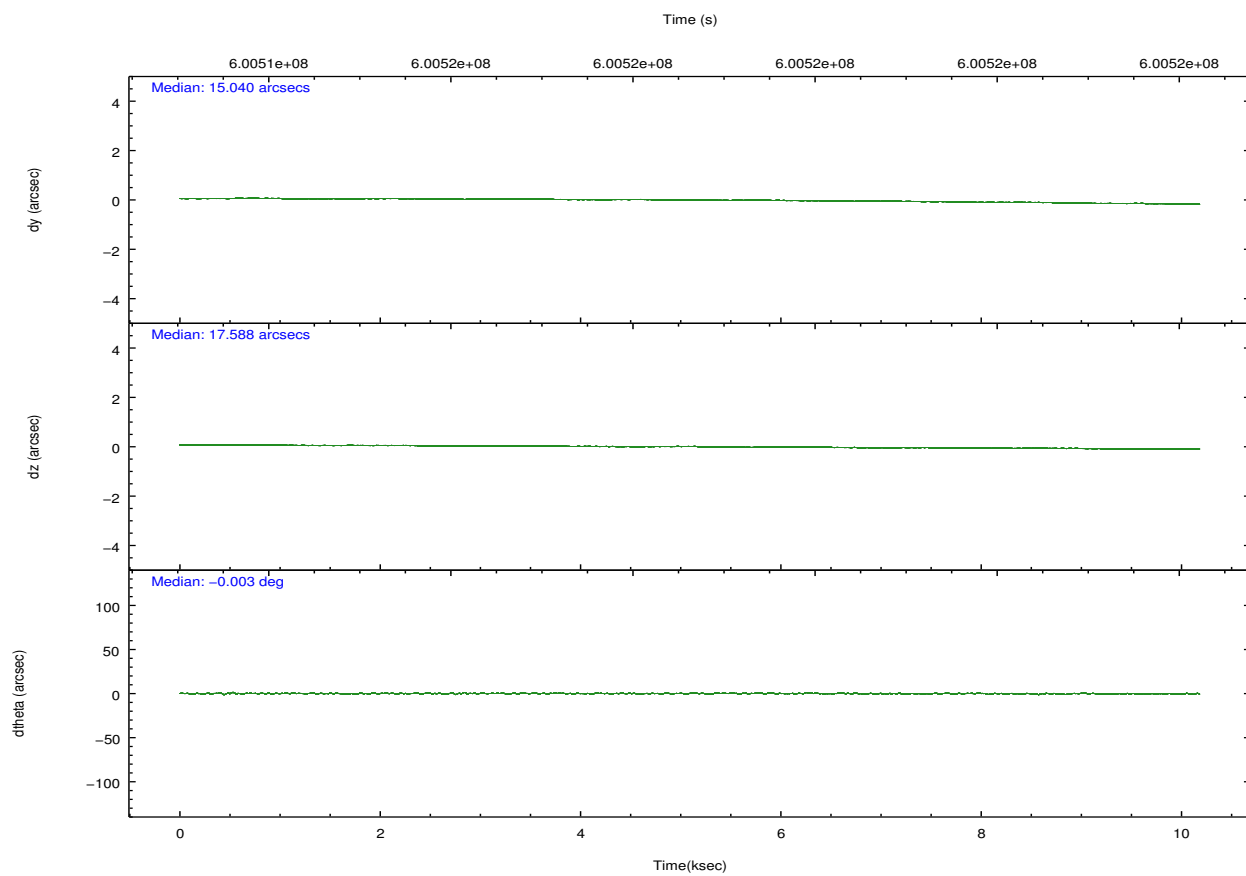
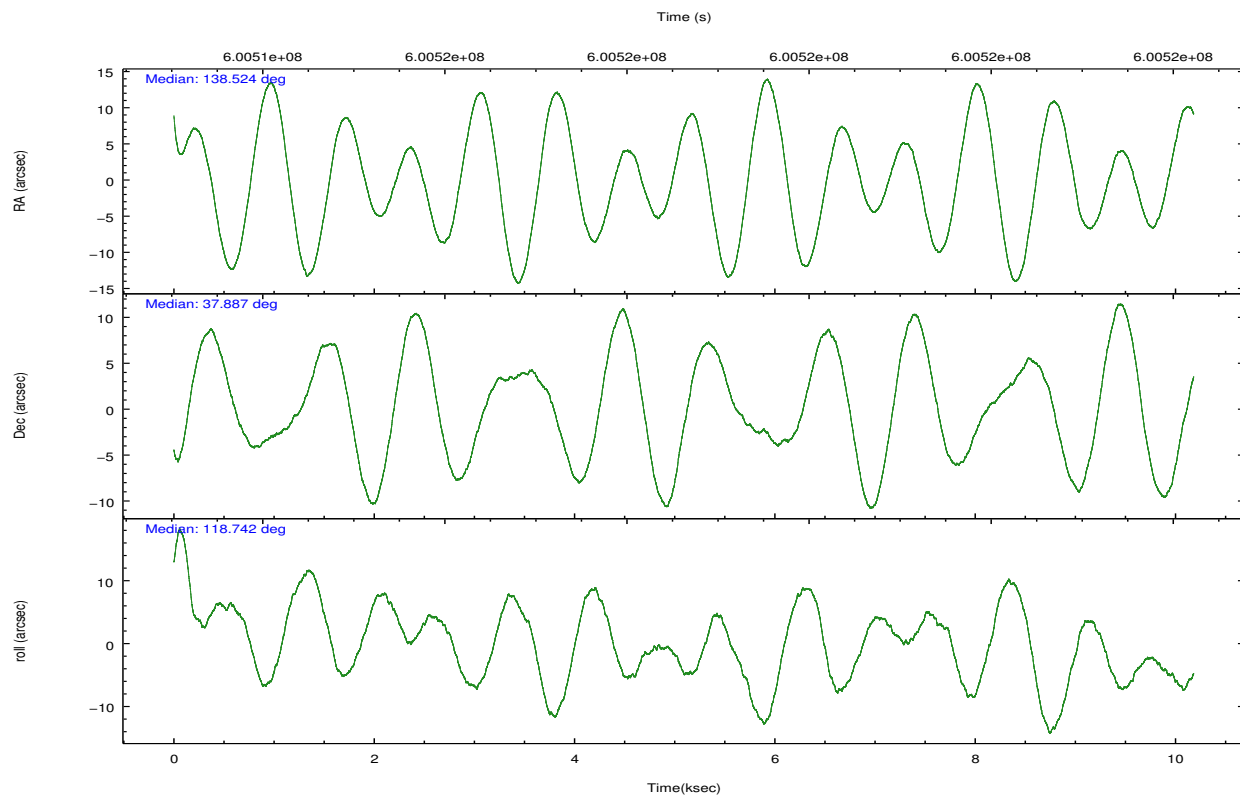


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	138.553566	138.523642664912	CCD I2 on	O2	N
[deg] Pointing Dec	37.873092	37.88701303930623	CCD I3 on	O1	N
[deg] Pointing Roll	118.572844	118.7478434248479	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)	600513725.184000	600512595.02776	CCD S5 on	N	N
Observation start date	2017-01-11T09:20:56	2017-01-11T09:03:15	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	600523725.184000	600524325.12844	On-chip summing requested	N	N
Observation end date	2017-01-11T12:07:36	2017-01-11T12:18:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



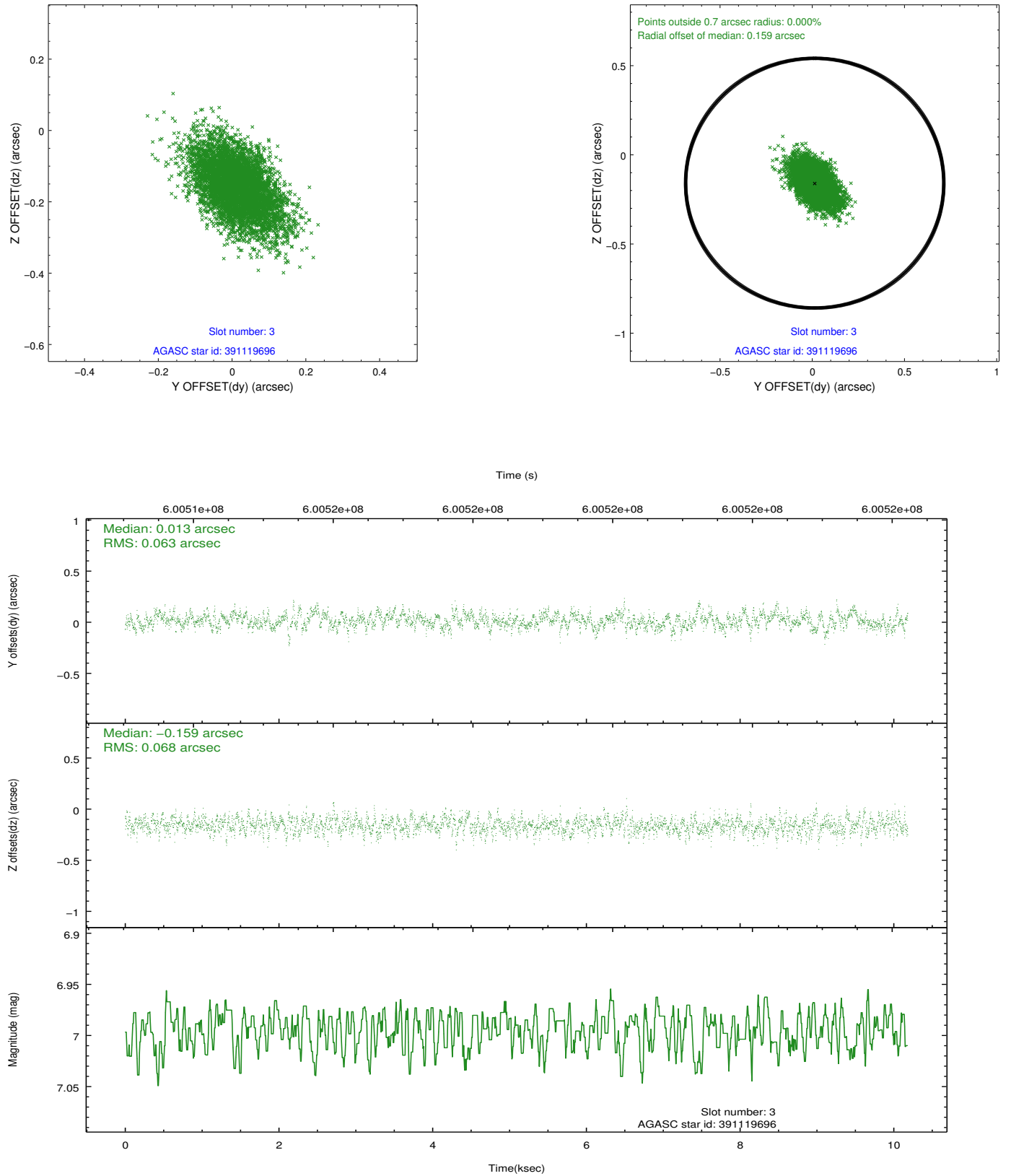


### Slot Statistics

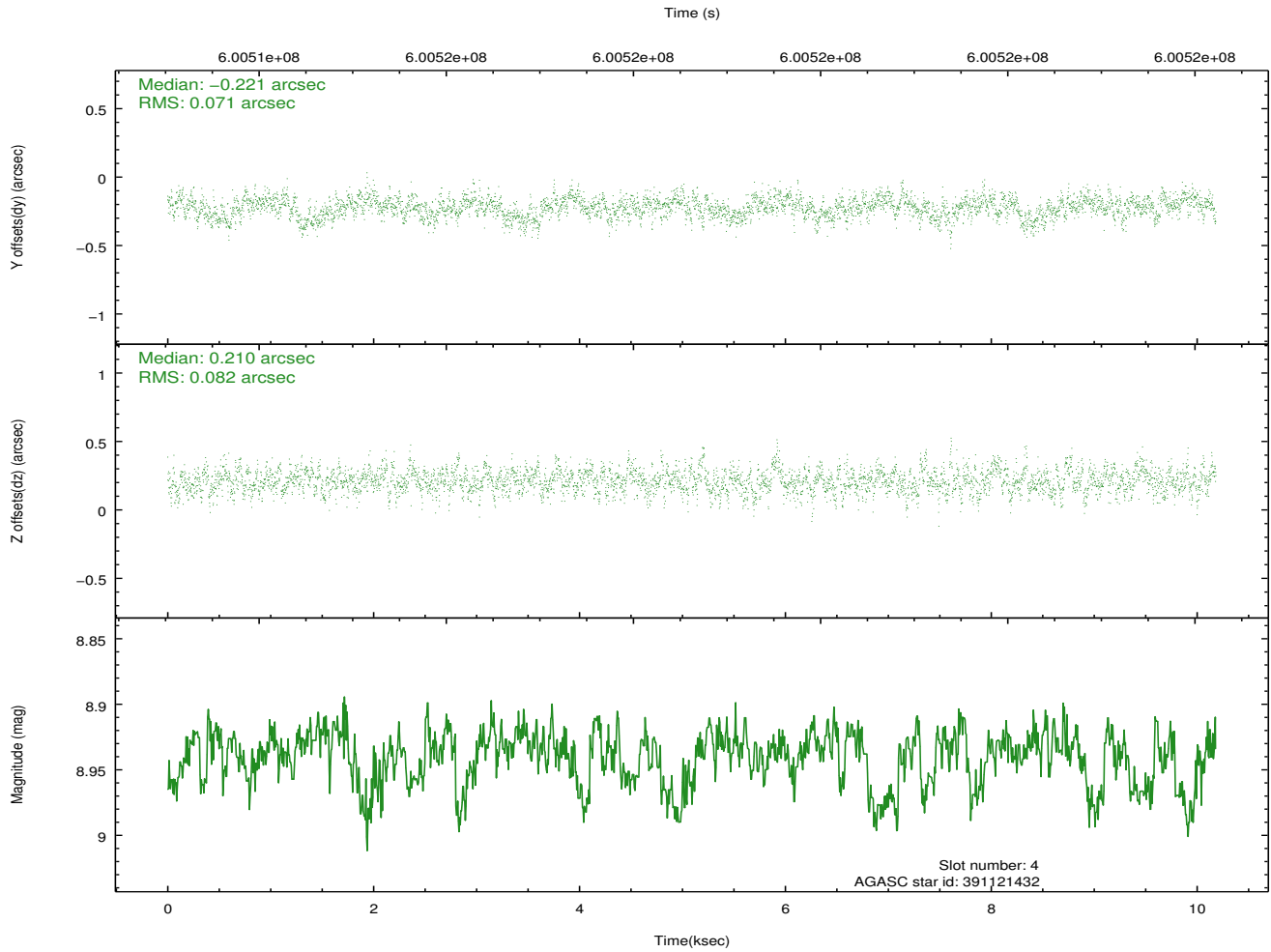
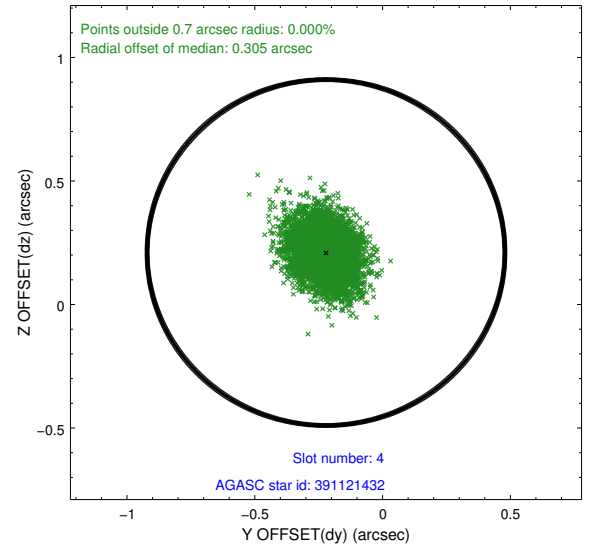
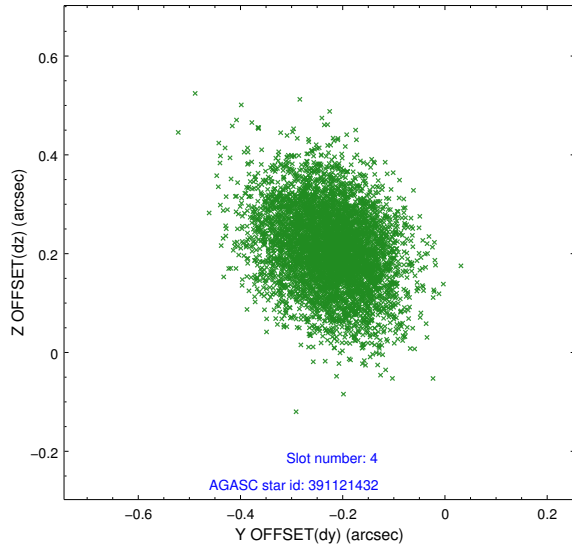
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	2484	-0.177	-0.115	0.007	0.011	0.000000	0.000000	-768.19	-1739.14
1	FID		ACIS-S-4	7.15	2484	0.452	0.116	0.006	0.011	0.000000	0.000000	2145.50	169.00
2	FID		ACIS-S-5	7.15	2484	-0.306	0.008	0.007	0.012	0.000000	0.000000	-1820.47	163.20
3	GUIDE	used	391119696	6.99	4968	0.013	-0.159	0.097	0.168	138.741058	38.609321	2078.84	-1729.38
4	GUIDE	used	391121432	8.94	4966	-0.221	0.210	0.115	0.190	138.941064	38.300975	832.08	-1698.97
5	GUIDE	used	391121912	8.36	4965	0.215	0.217	0.108	0.186	138.788488	38.334900	1144.54	-1377.82
6	GUIDE	used	391129232	9.25	4963	0.003	-0.567	0.179	0.281	138.004774	37.530659	-328.79	1963.18
7	GUIDE	used	391130304	9.19	4958	-0.006	0.298	0.145	0.231	138.771062	37.741703	-710.44	-316.94

## 2.4 Star Slots

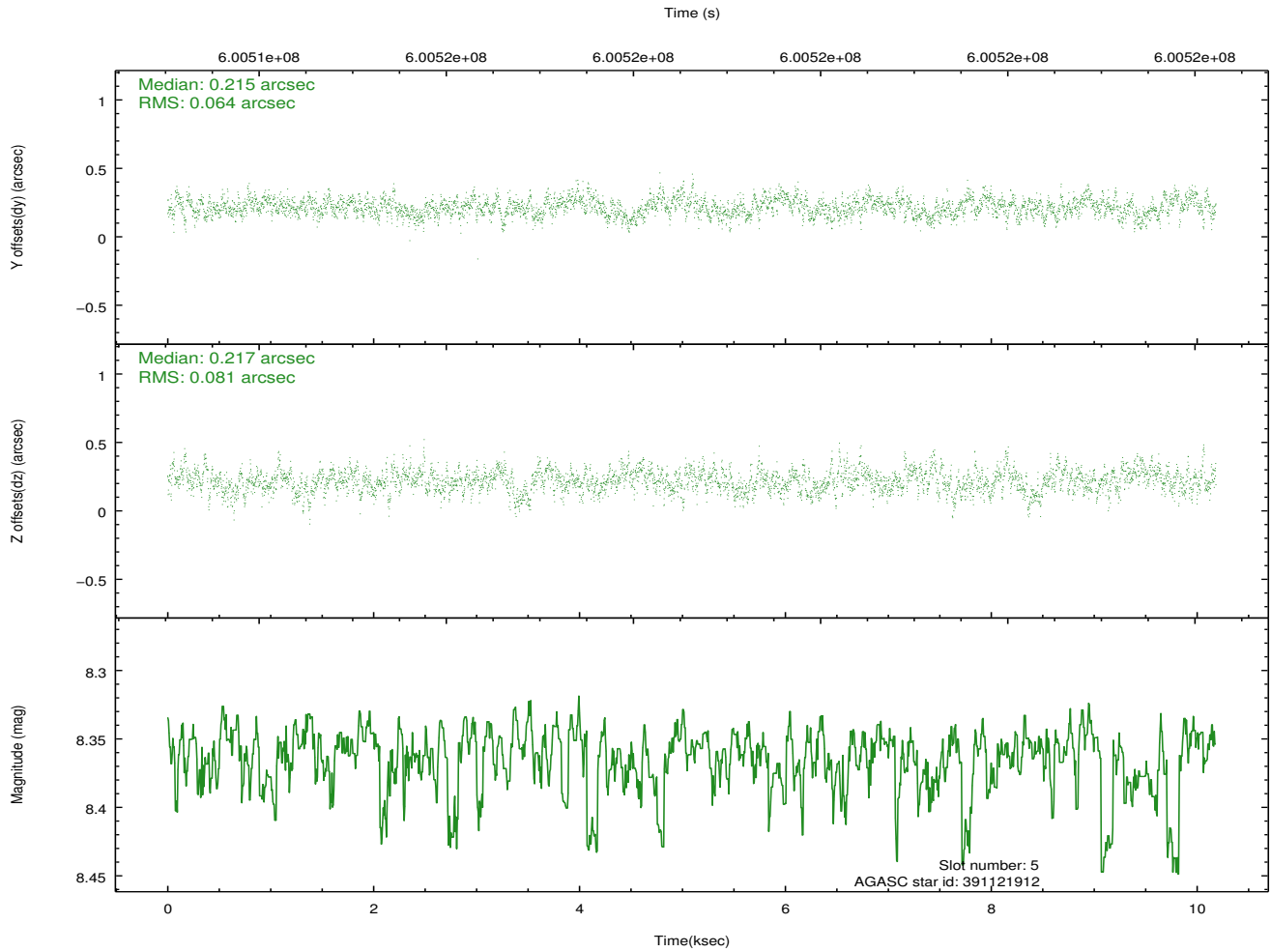
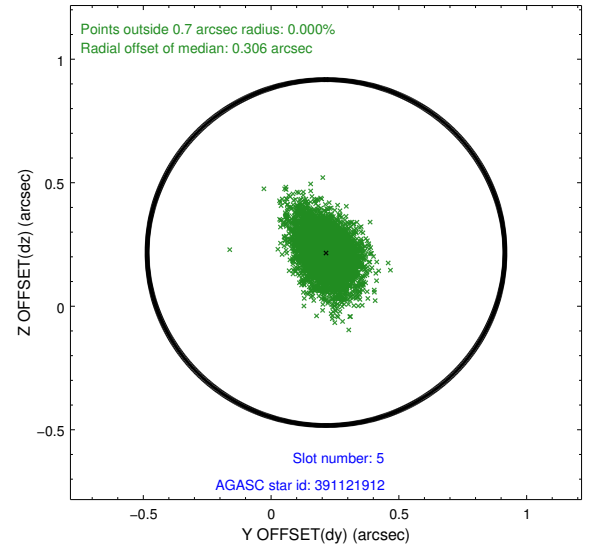
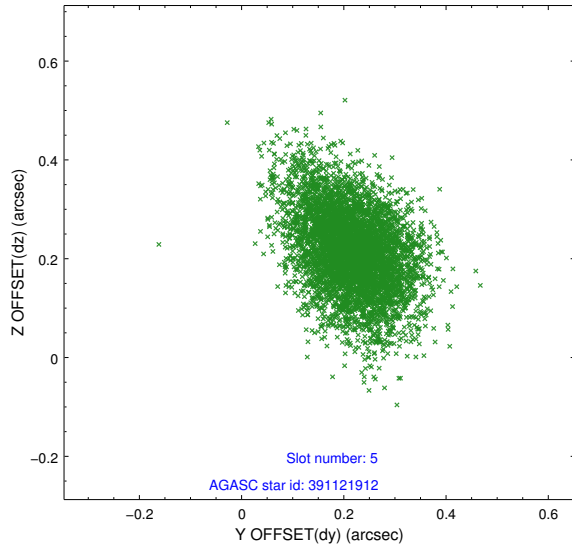
### 2.4.1 Slot 3



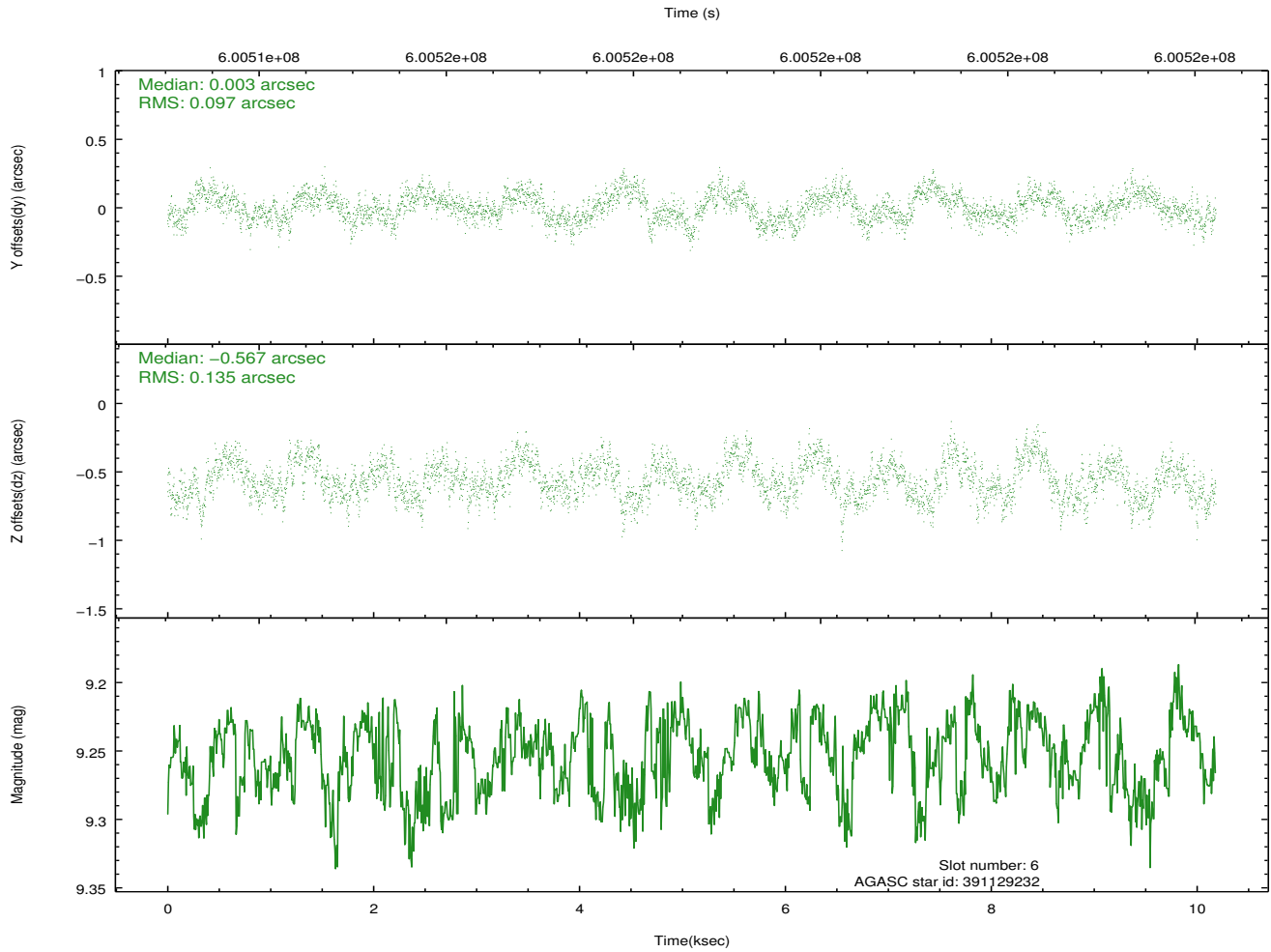
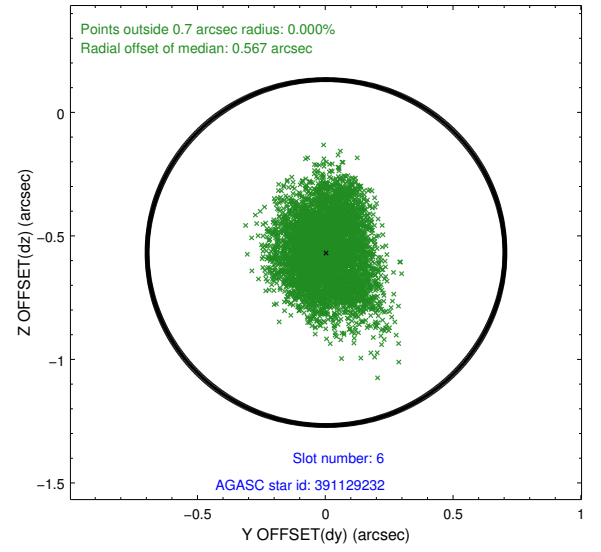
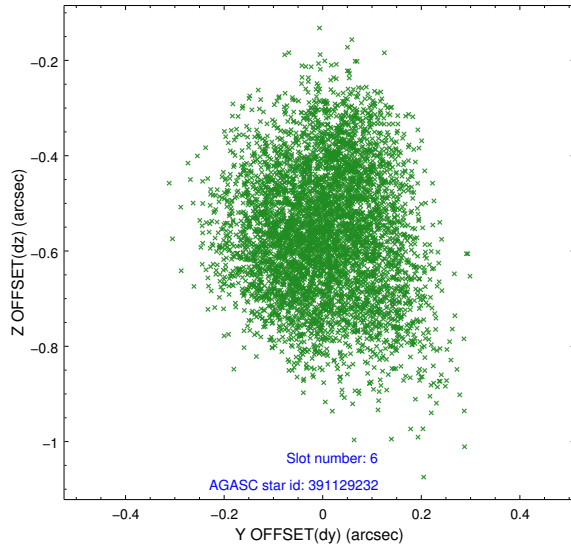
## 2.4.2 Slot 4



### 2.4.3 Slot 5

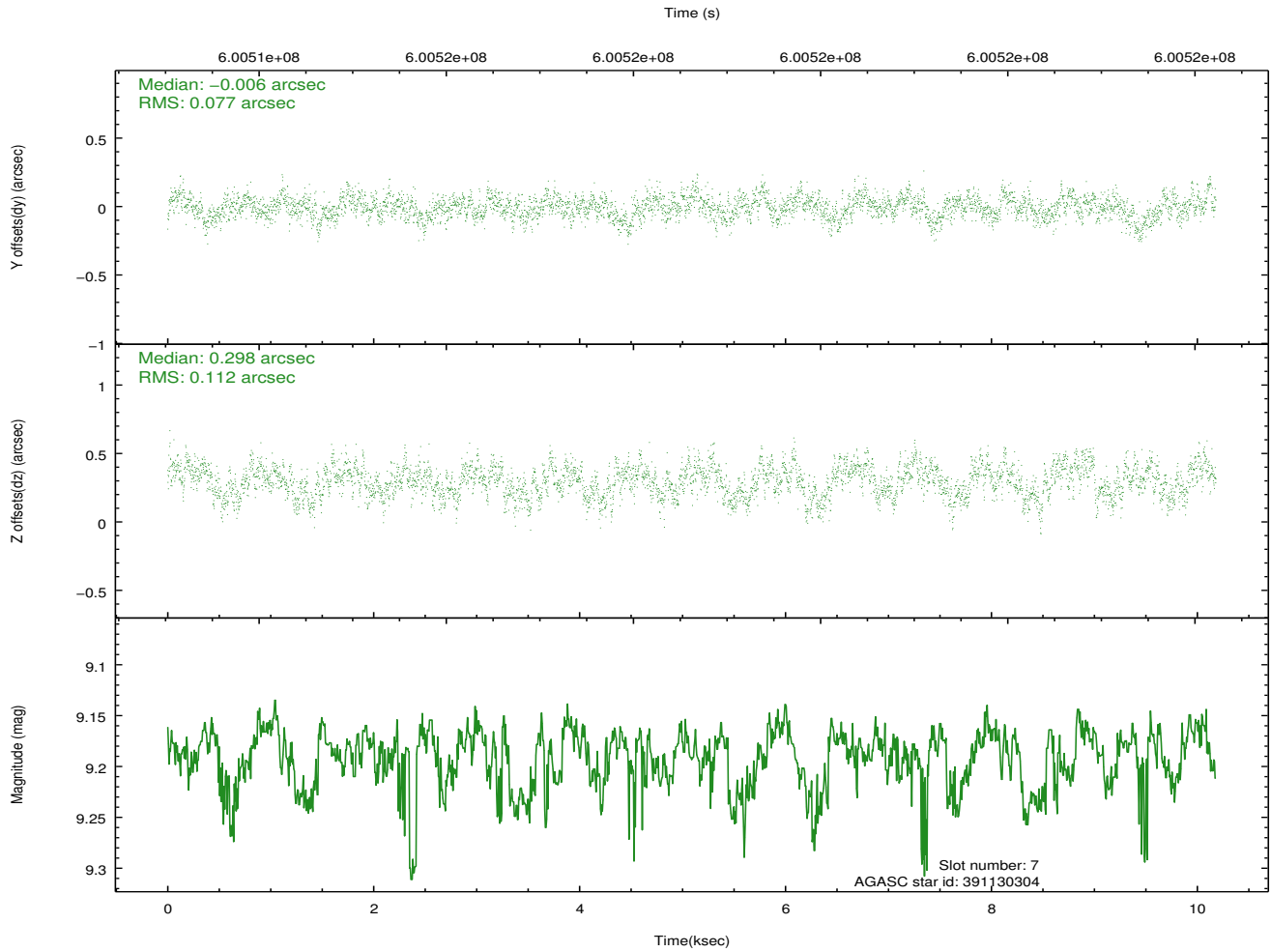
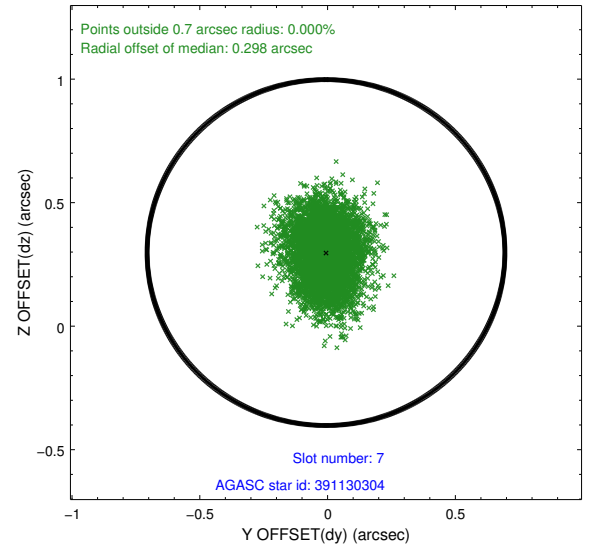
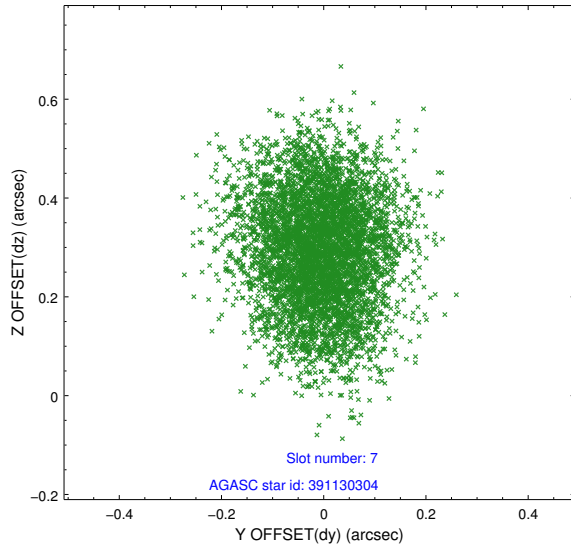


## 2.4.4 Slot 6



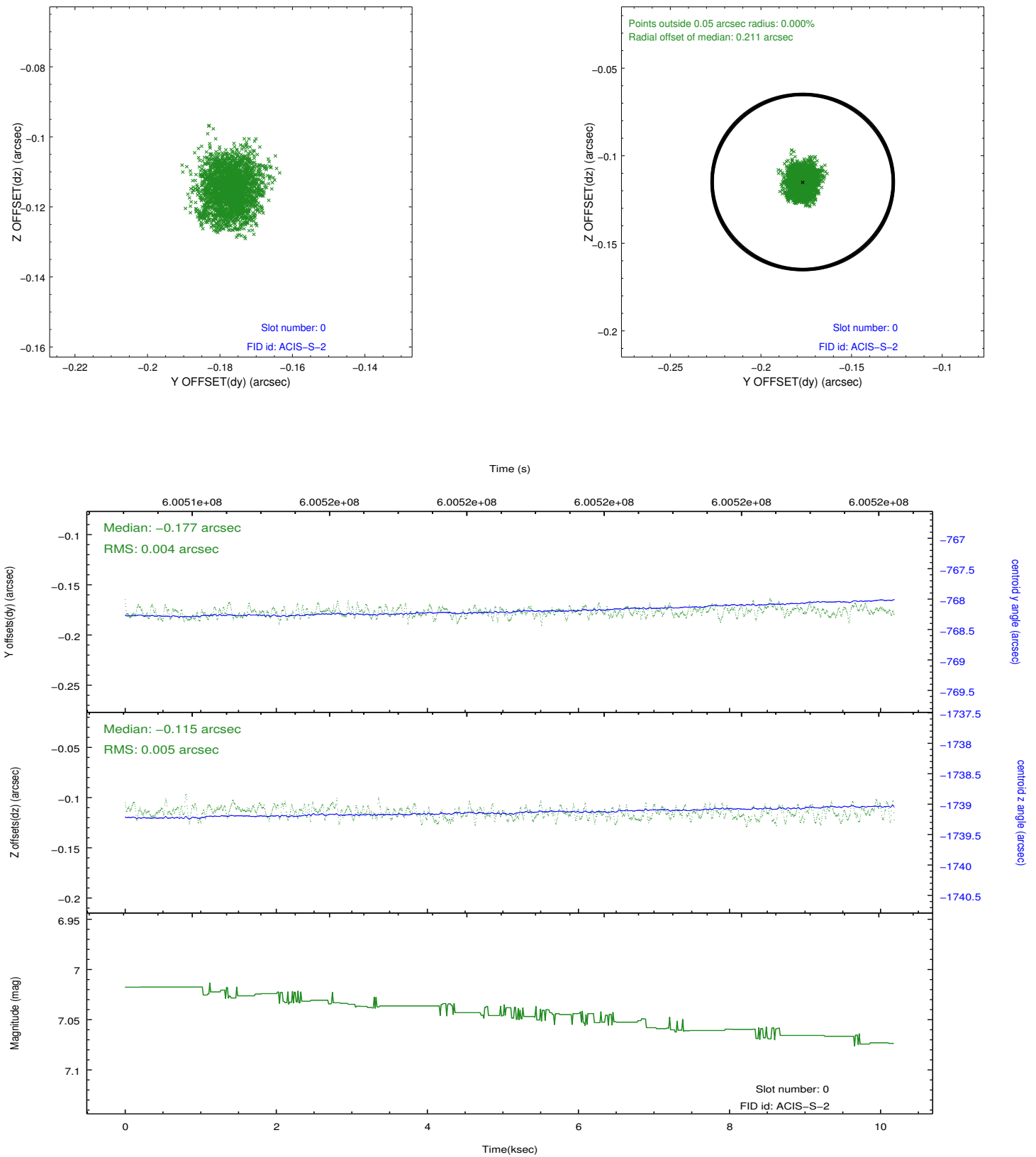


## 2.4.5 Slot 7

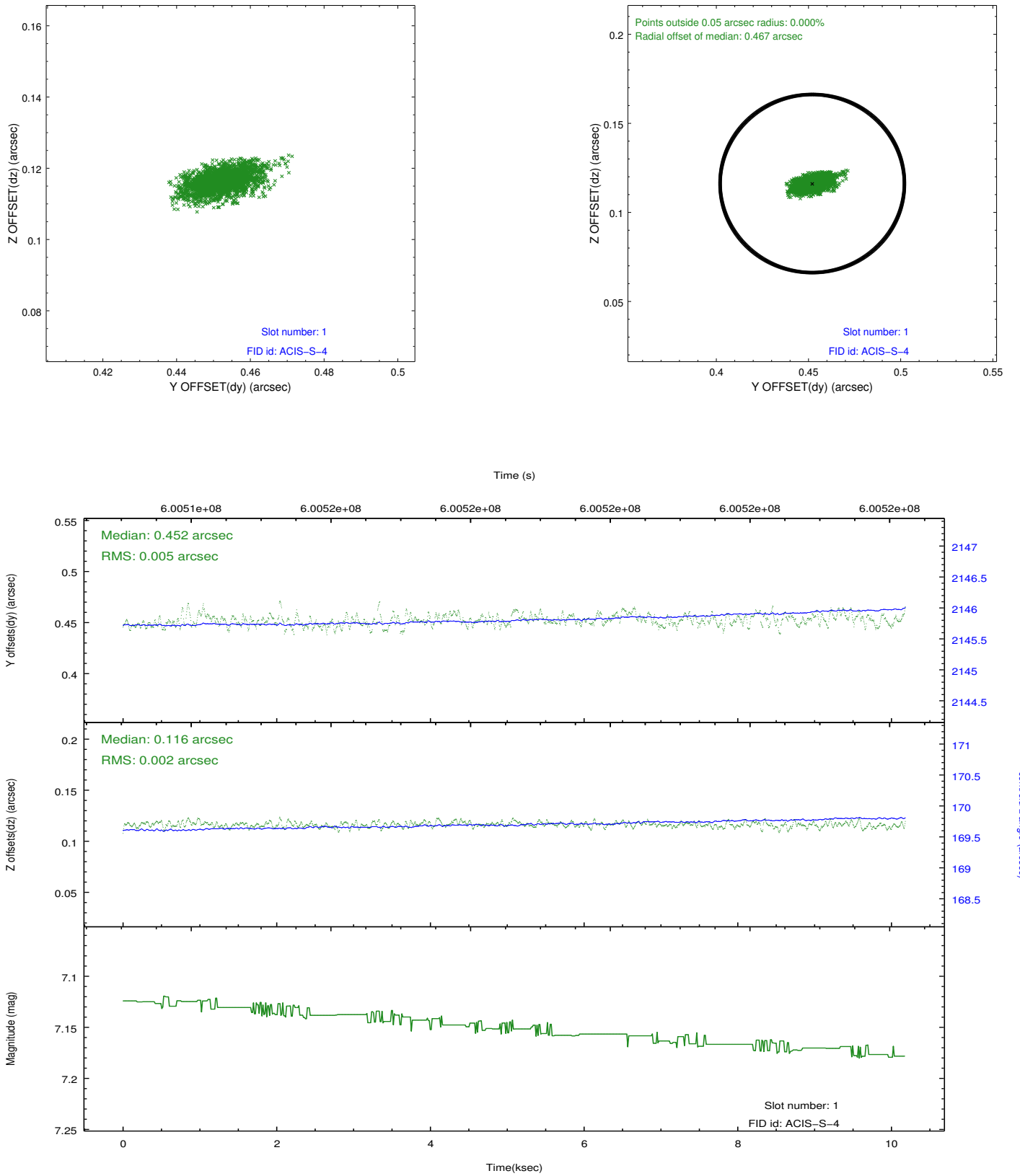


## 2.5 FID Slots

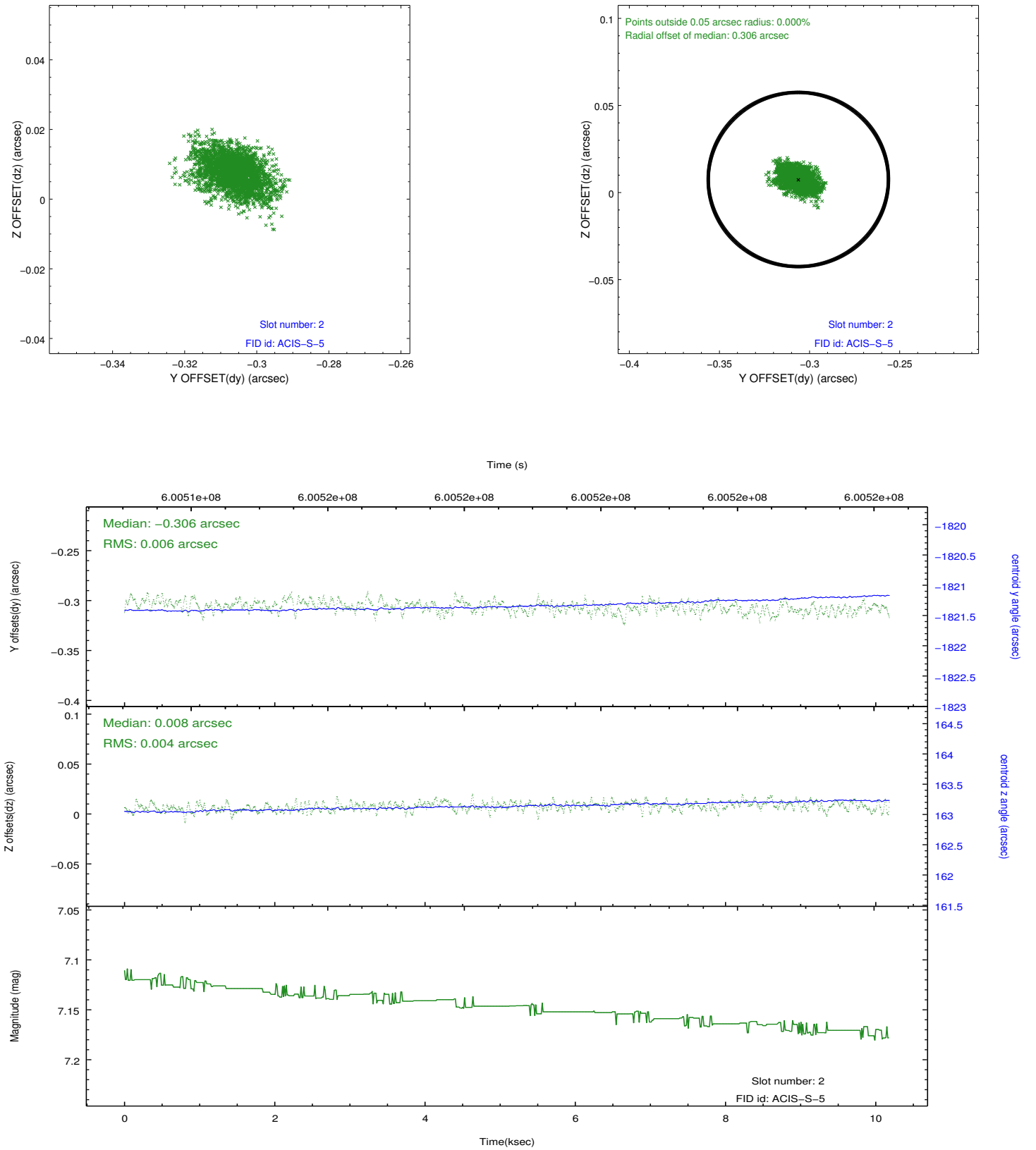
### 2.5.1 Slot 0



## 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)	2017.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06260007751

### A.2 Comments

Optional chips I3 and I2 not included.