

# V&V Reference Report

## L2 ASCDS Version : 10.5.2

Observation 19999 - L2 Version 1  
Chandra X-Ray Center

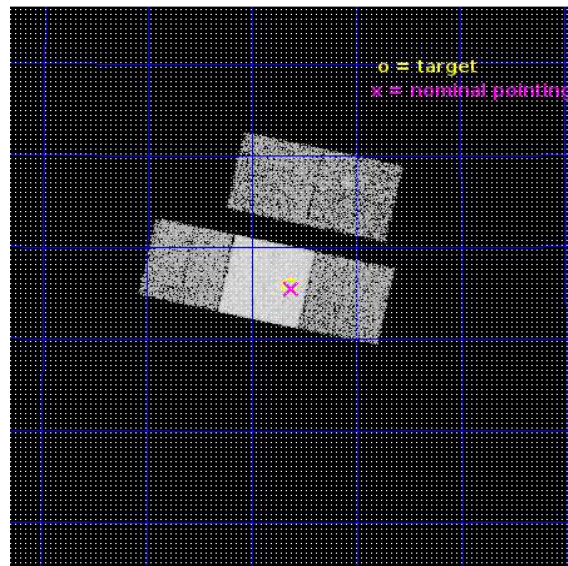
L2 Processing Date : Feb 8 2017

## 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

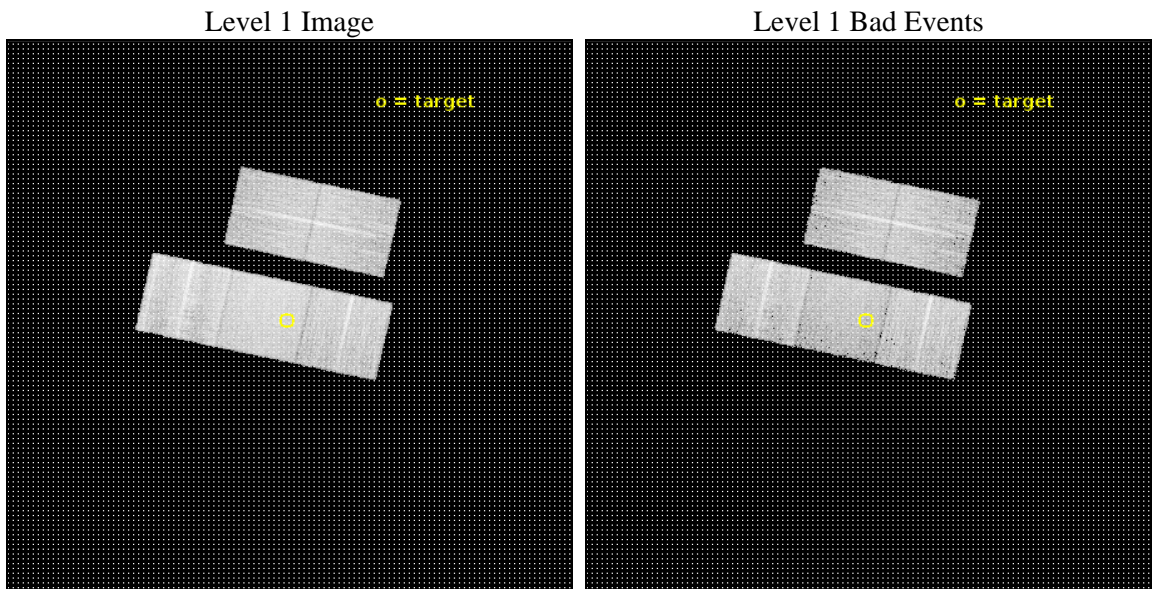
seq_num	502972	Sequence number
obs_id	19999	Observation id
title	iPTF17cw: A relativistic broad-lined type Ic supernova discovered by iPTF	Proposal title
observer	Alessandra Corsi	Principal investigator
object	iPTF17cw	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.91	Observer's specified target RA [deg]
dec_targ	43.097306	Observer's specified target Dec [deg]
ra_nom	135.90537582547	Nominal RA [deg]
dec_nom	43.091790823677	Nominal Dec [deg]
roll_nom	192.40586374921	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9978.9000768661	Sum of GTIs [s]
livetime	9848.5184010025	Livetime [s]
ontime2	9978.9000768661	Sum of GTIs [s]
ontime3	9978.9000768661	Sum of GTIs [s]
ontime6	9978.9000768661	Sum of GTIs [s]
ontime7	9978.9000768661	Sum of GTIs [s]
ontime8	9978.9000768661	Sum of GTIs [s]
l2events	67805	Number of level 2 events



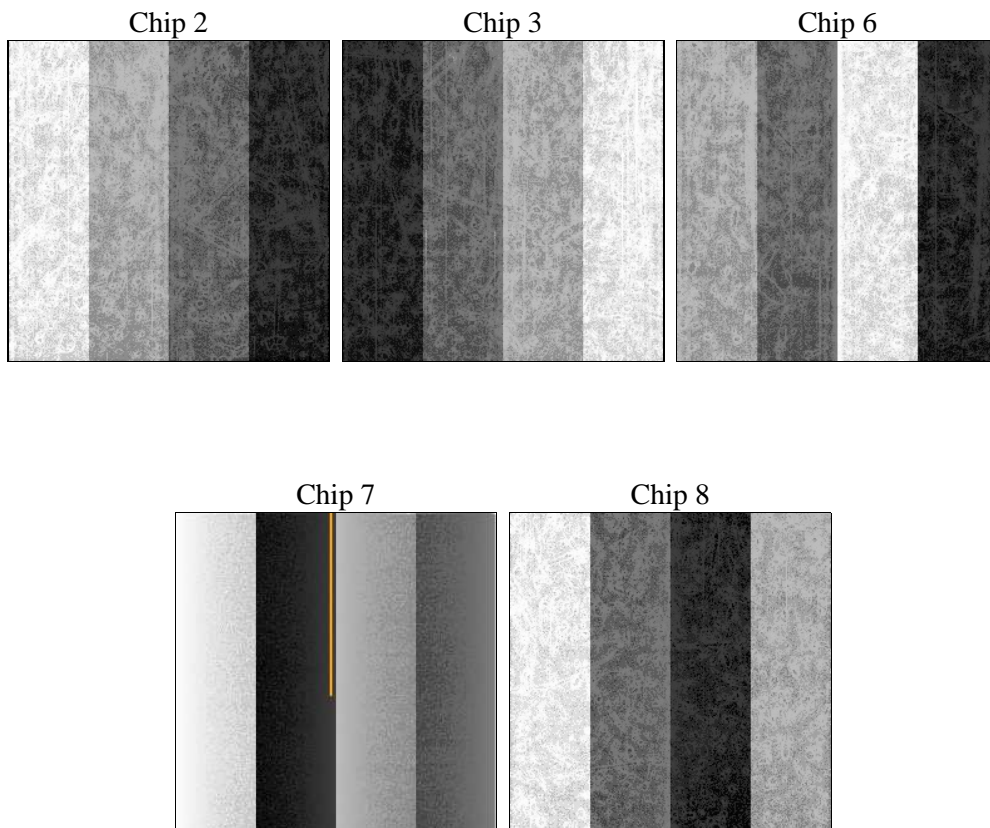
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9932.693000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	9978.9000768661	Sum of GTIs [s]
caldsver	4.7.3	&#160	ontime2	9978.9000768661	Sum of GTIs [s]
date	2017-02-09T01:22:21	Date and time of file creation	ontime3	9978.9000768661	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	9978.9000768661	Sum of GTIs [s]
			ontime7	9978.9000768661	Sum of GTIs [s]
			ontime8	9978.9000768661	Sum of GTIs [s]
			l1events	396746	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	69152	67487	72927	92245	94935
rejected events	61395	60122	64806	51773	69666
rejected %	88%	89%	88%	56%	73%

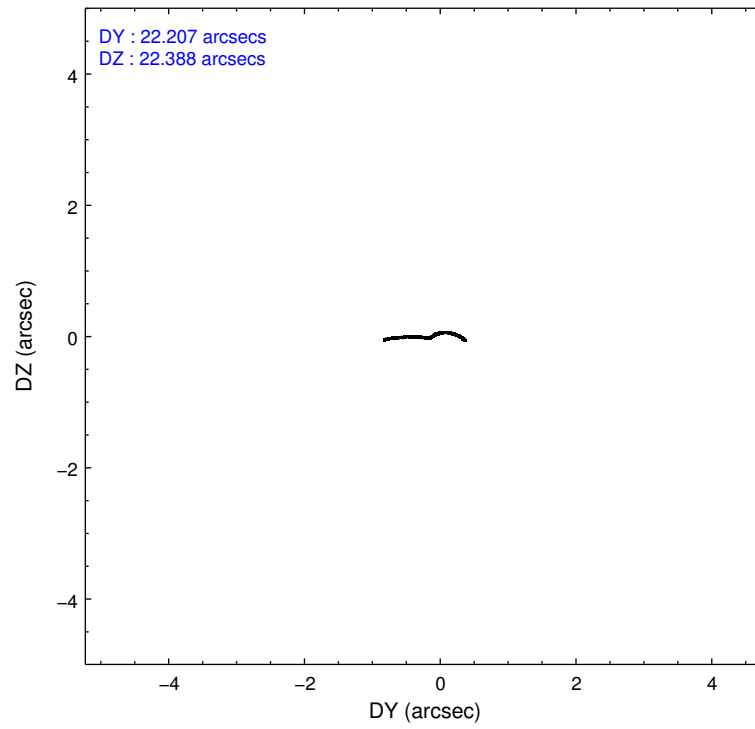
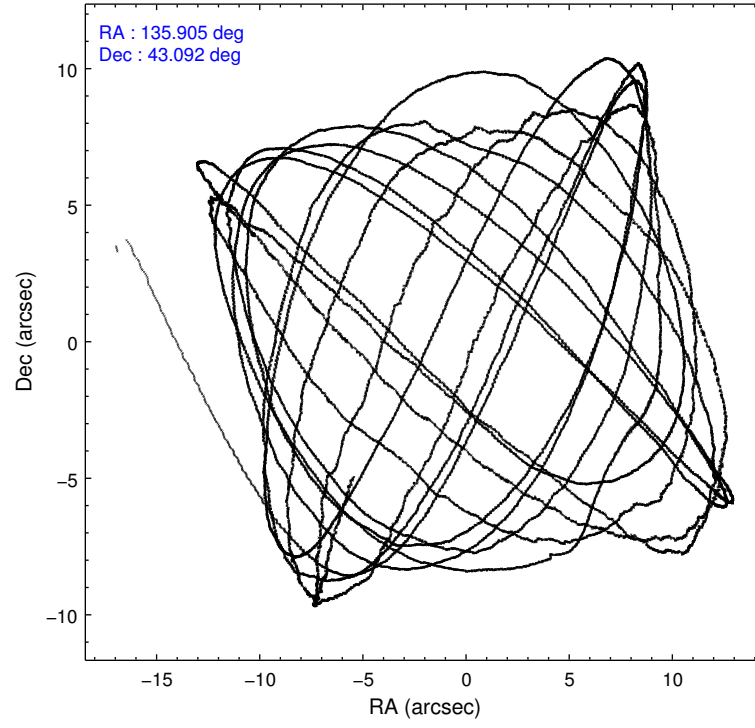
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2790	2599	2630	3508	7125
	4%	3%	3%	3%	7%
grade 1 events	29	46	37	143	64
	0%	0%	0%	0%	0%
grade 2 events	1965	1575	1928	8631	6320
	2%	2%	2%	9%	6%
grade 3 events	749	795	828	3368	2484
	1%	1%	1%	3%	2%
grade 4 events	786	824	854	3279	2337
	1%	1%	1%	3%	2%
grade 5 events	2682	3479	3513	9388	5155
	3%	5%	4%	10%	5%
grade 6 events	1481	1579	1889	21710	7042
	2%	2%	2%	23%	7%
grade 7 events	58670	56590	61248	42218	64408
	84%	83%	83%	45%	67%

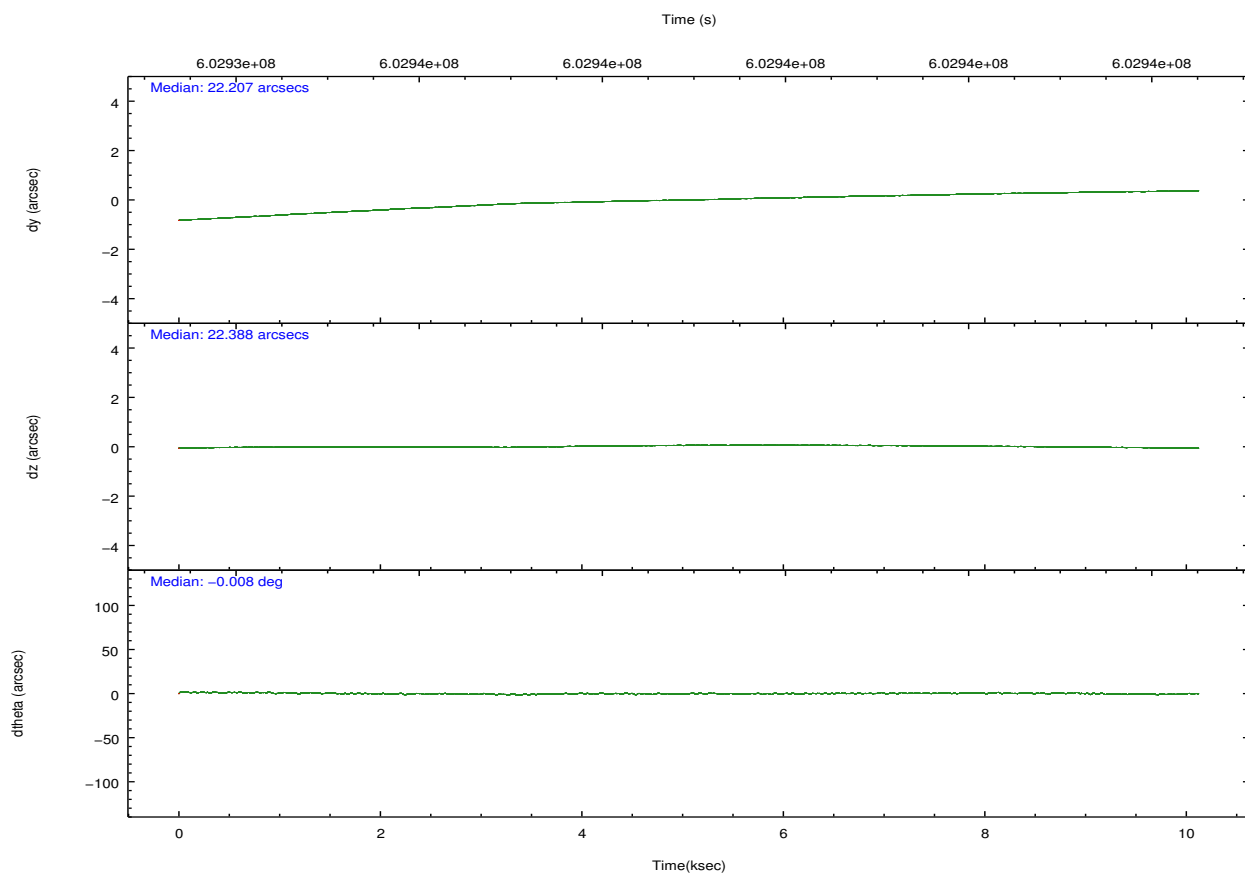
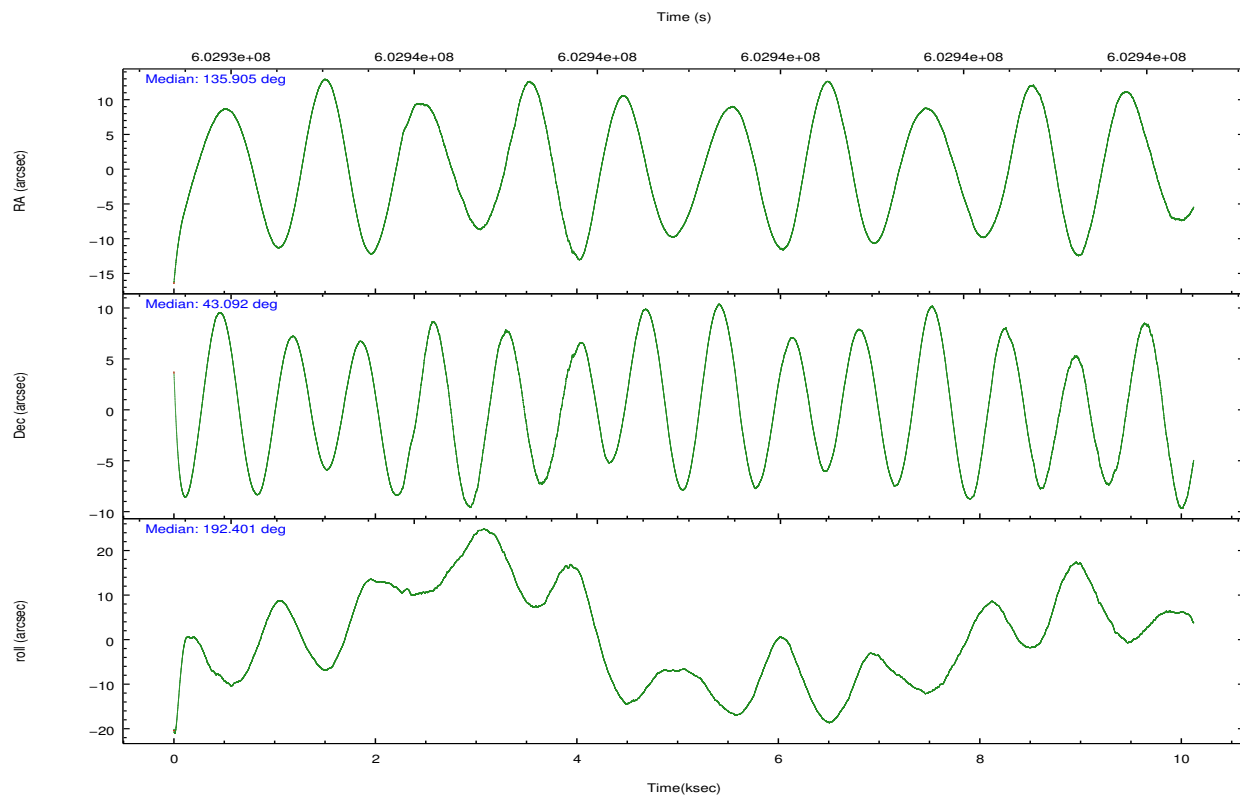


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	135.932795	135.9053758254705	CCD I2 on	O1	Y
[deg] Pointing Dec	43.110627	43.09179082367713	CCD I3 on	Y	Y
[deg] Pointing Roll	192.230511	192.4058637492105	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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)	602934050.184000	602932921.51793	CCD S5 on	N	N
Observation start date	2017-02-08T09:39:41	2017-02-08T09:22:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	602943982.184000	602944206.76858	On-chip summing requested	N	N
Observation end date	2017-02-08T12:25:13	2017-02-08T12:30:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



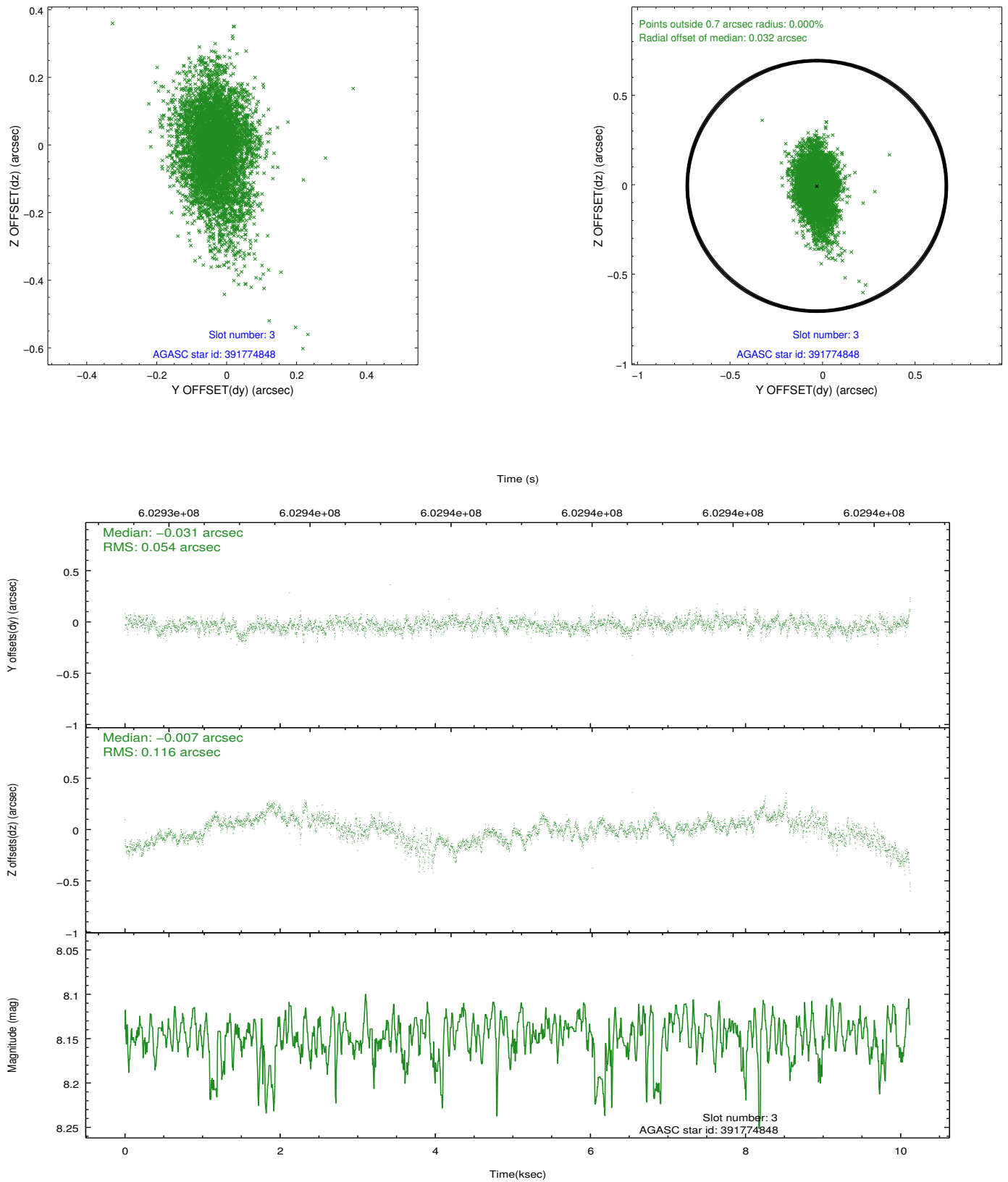


### Slot Statistics

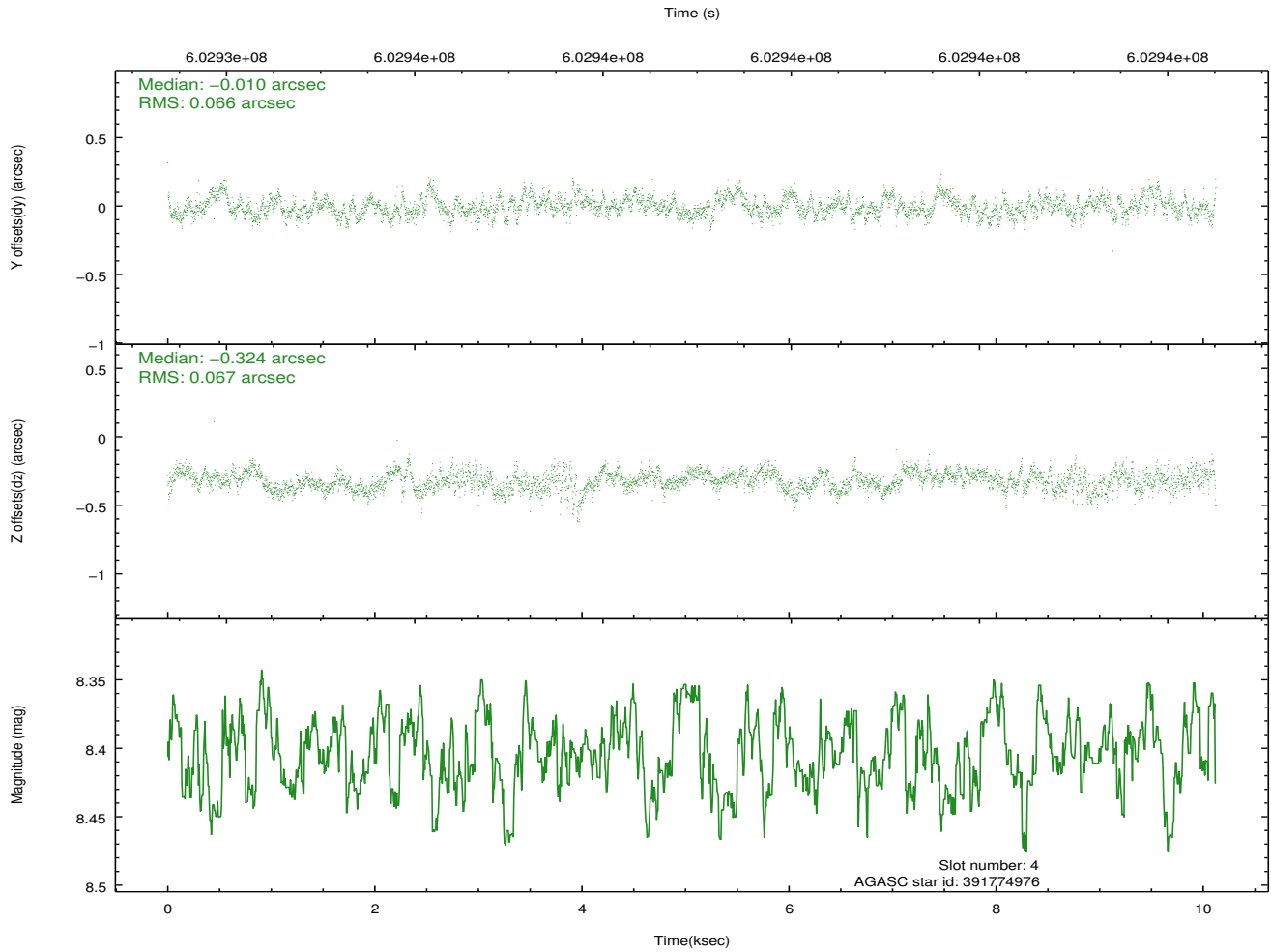
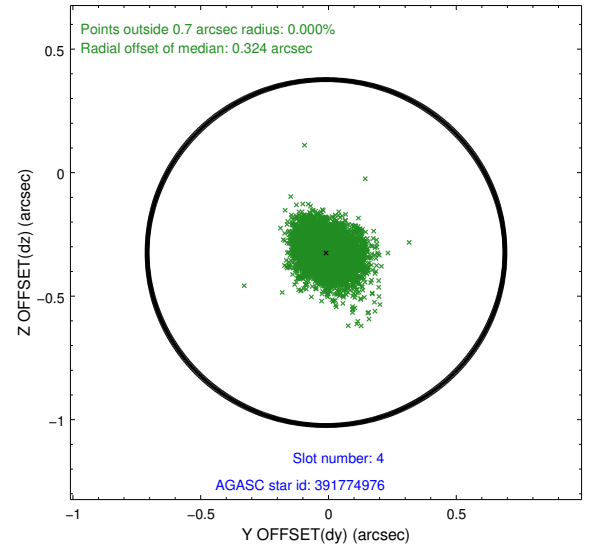
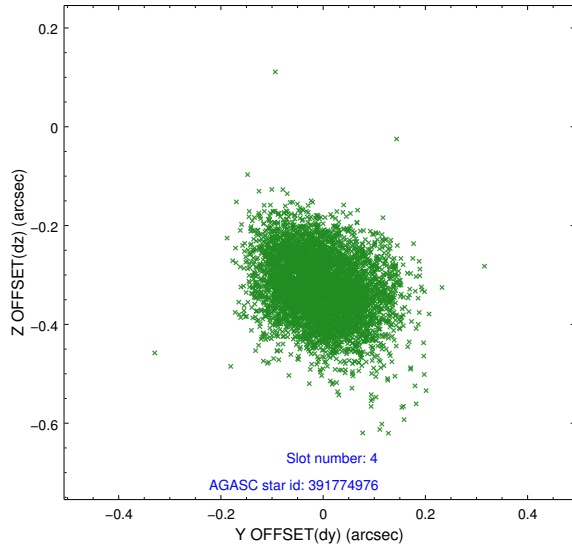
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	2470	0.127	-0.044	0.010	0.021	0.000000	0.000000	920.92	-1739.62
1	FID		ACIS-S-5	7.03	2469	-0.299	0.061	0.018	0.031	0.000000	0.000000	-1828.27	157.40
2	FID		ACIS-S-6	7.17	2470	0.149	-0.005	0.012	0.020	0.000000	0.000000	385.84	801.97
3	GUIDE	used	391774848	8.15	4937	-0.031	-0.007	0.127	0.235	135.130539	42.900793	2225.64	280.64
4	GUIDE	used	391774976	8.40	4936	-0.010	-0.324	0.099	0.159	136.194181	43.054753	-629.15	341.39
5	GUIDE	used	391779088	6.84	4939	0.018	0.087	0.097	0.160	136.113528	43.441927	-714.37	-1065.38
6	GUIDE	used	391781288	7.78	4939	0.072	0.182	0.114	0.183	136.207932	43.456468	-964.43	-1064.86
7	GUIDE	used	391907880	9.07	4935	-0.055	0.074	0.168	0.276	136.970627	42.628007	-2322.39	2263.78

## 2.4 Star Slots

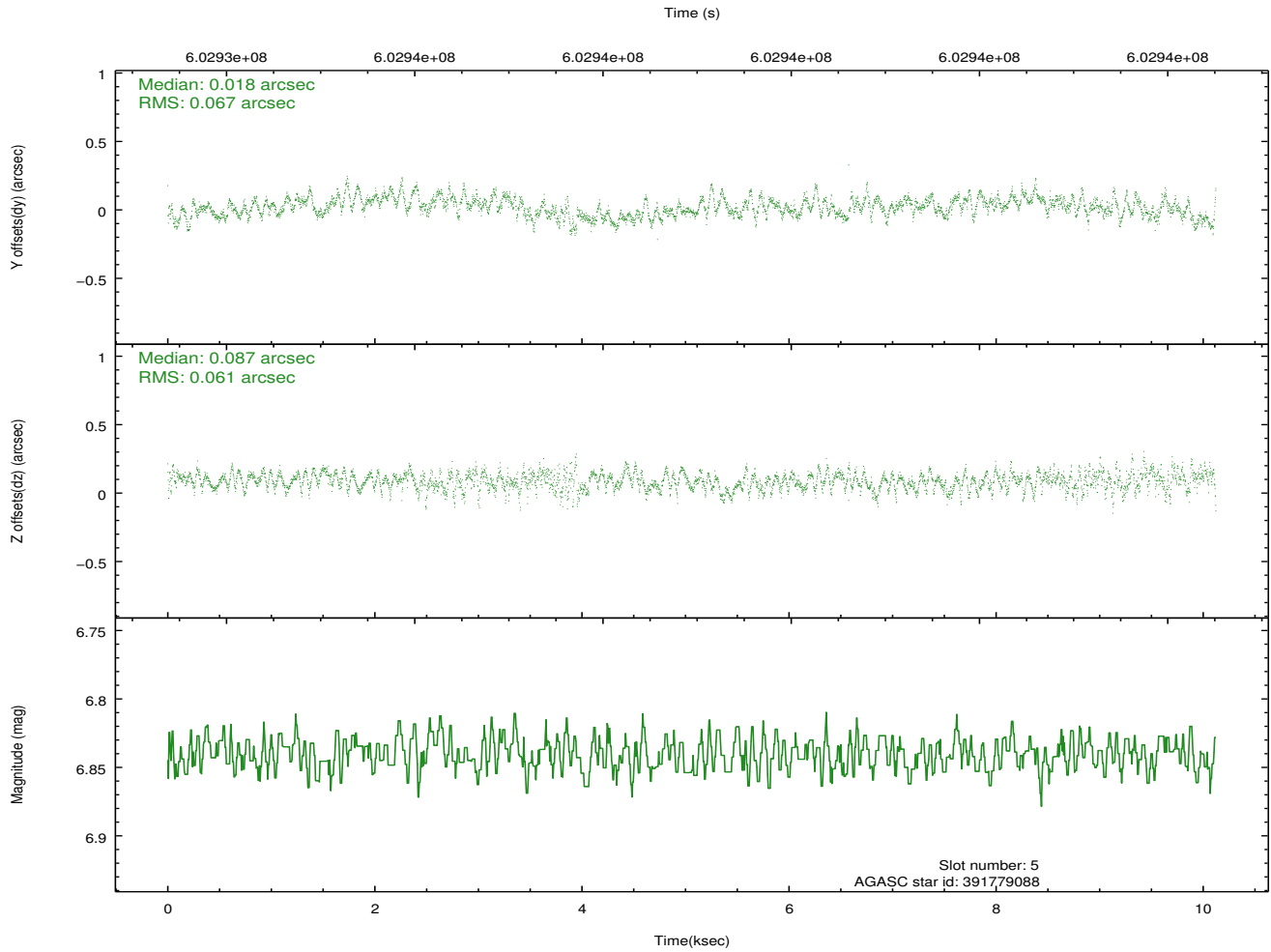
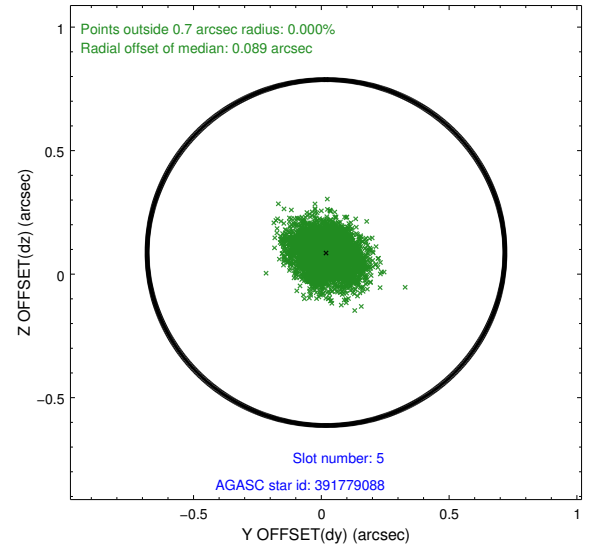
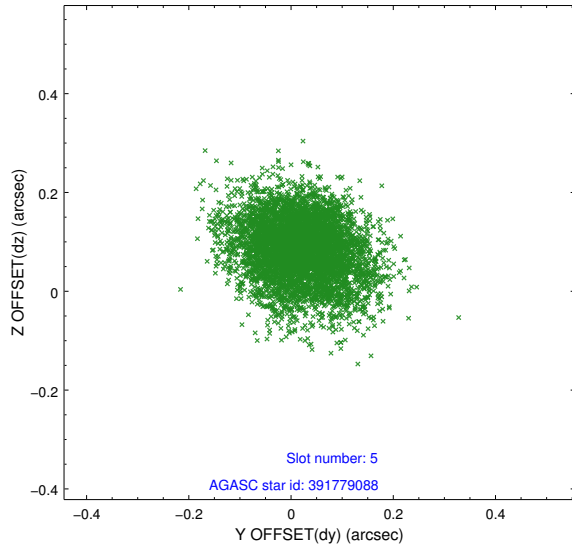
### 2.4.1 Slot 3



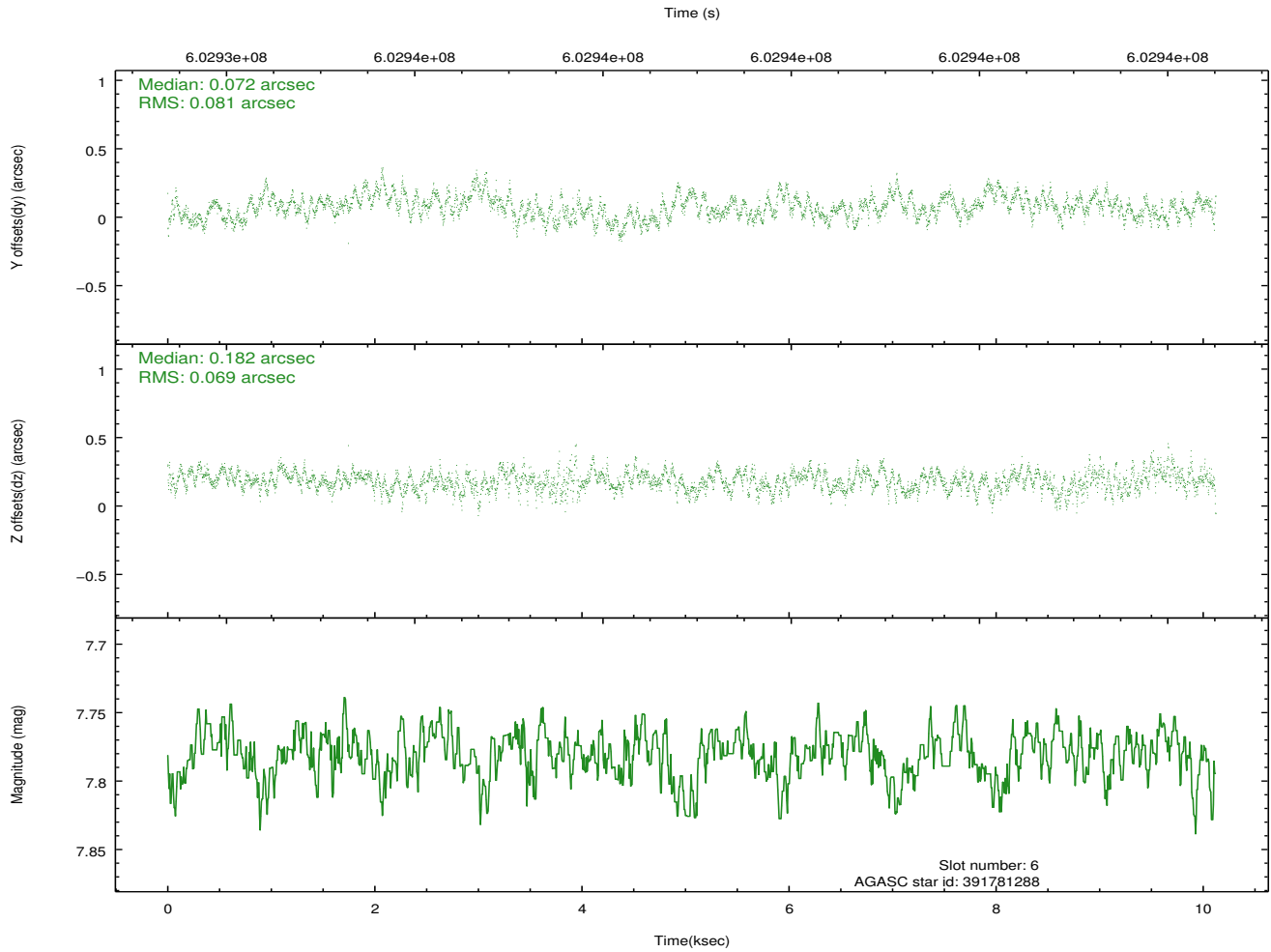
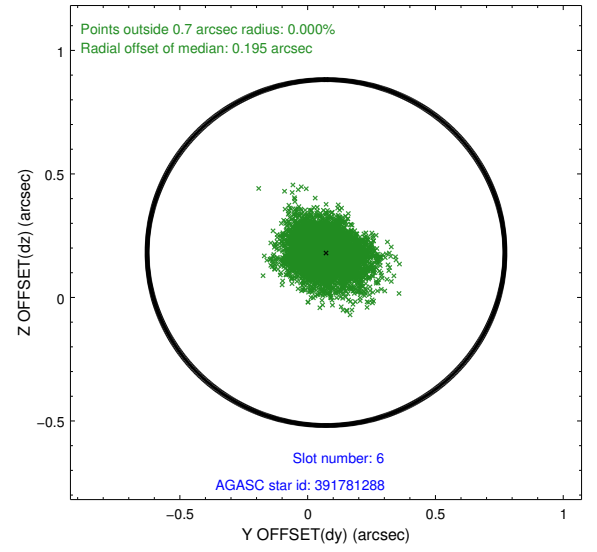
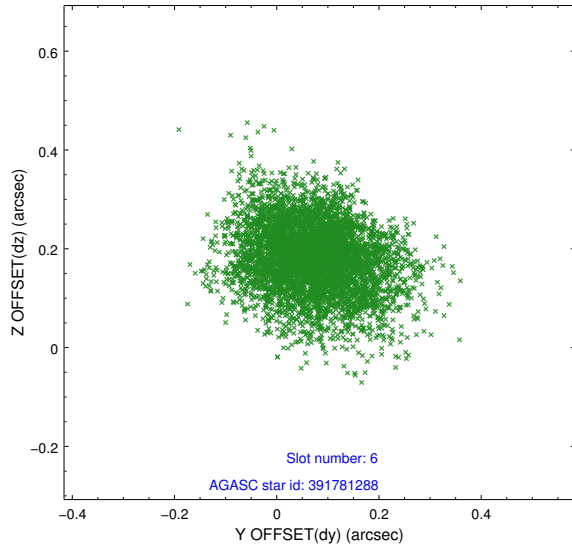
## 2.4.2 Slot 4



### 2.4.3 Slot 5

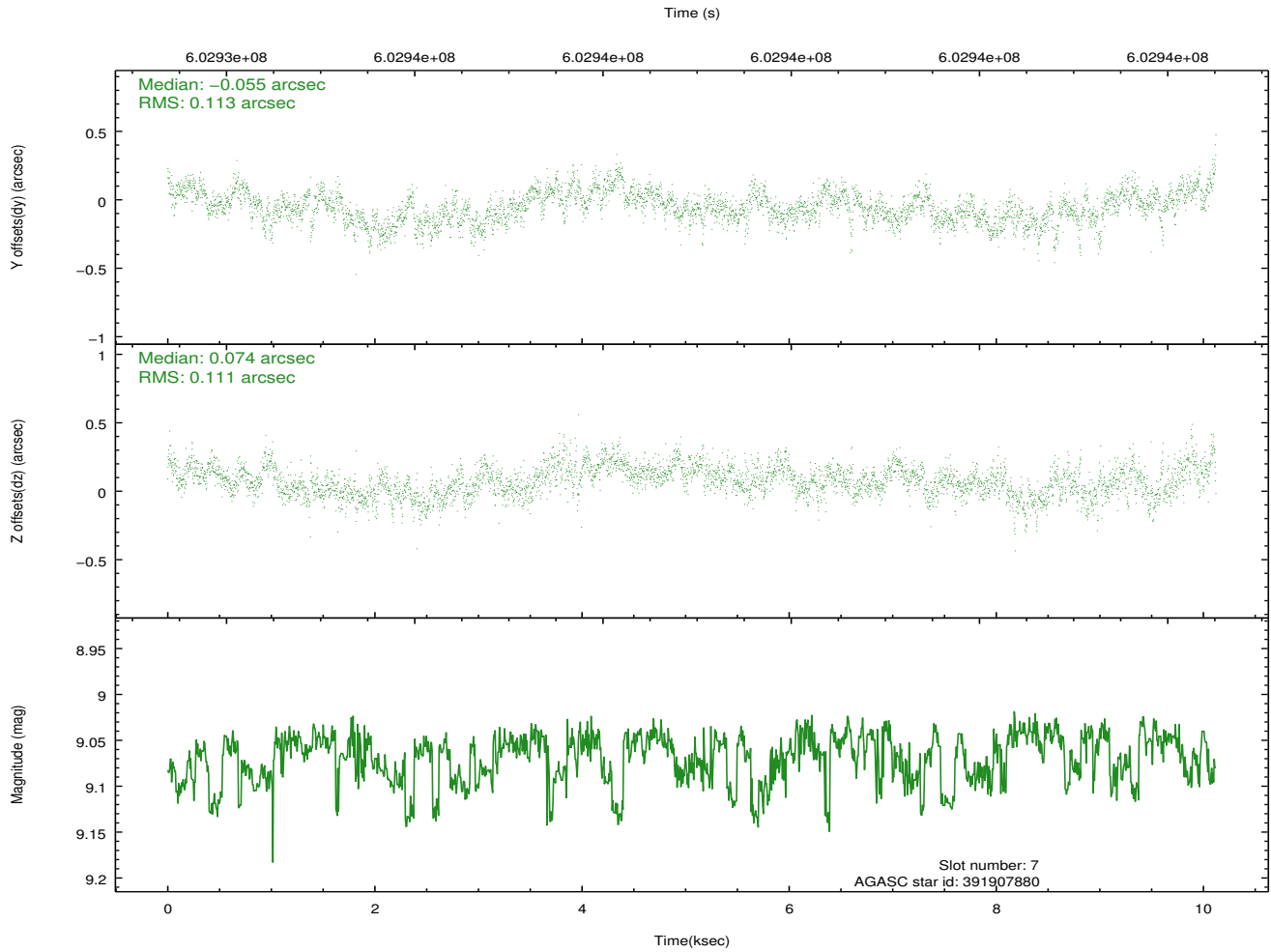
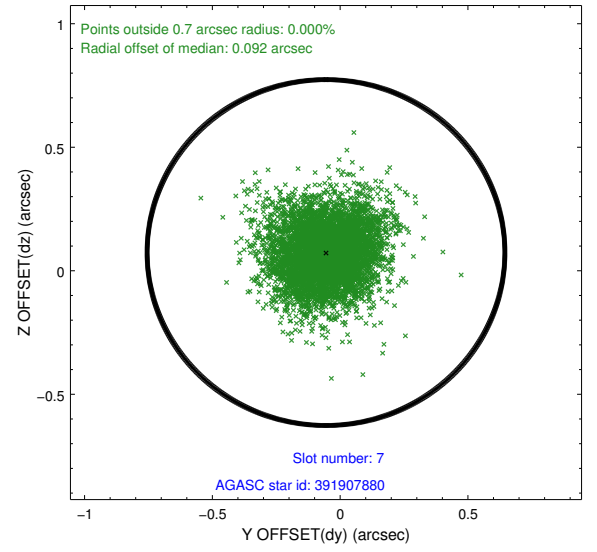
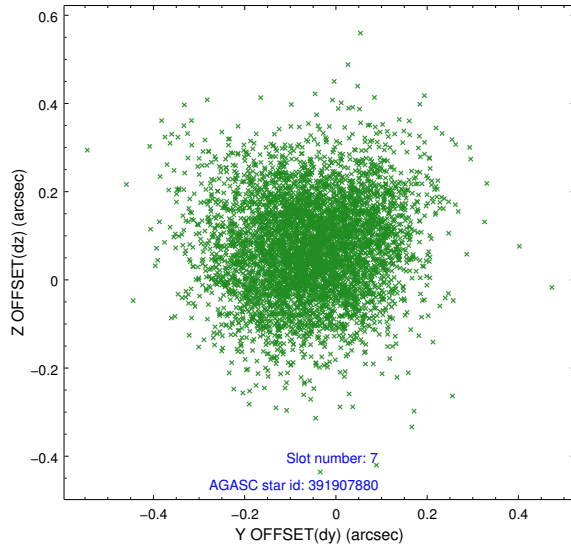


## 2.4.4 Slot 6



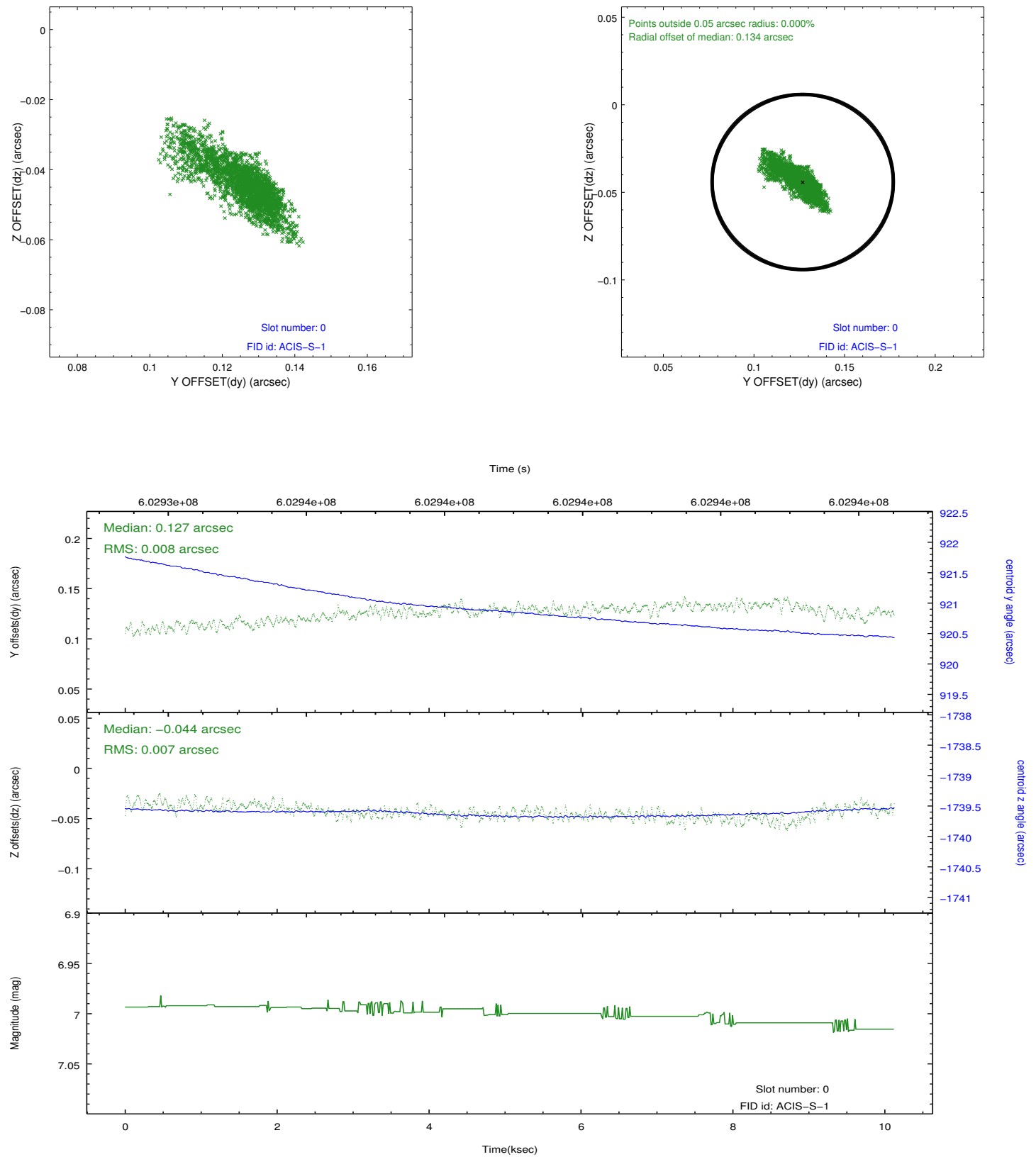


## 2.4.5 Slot 7

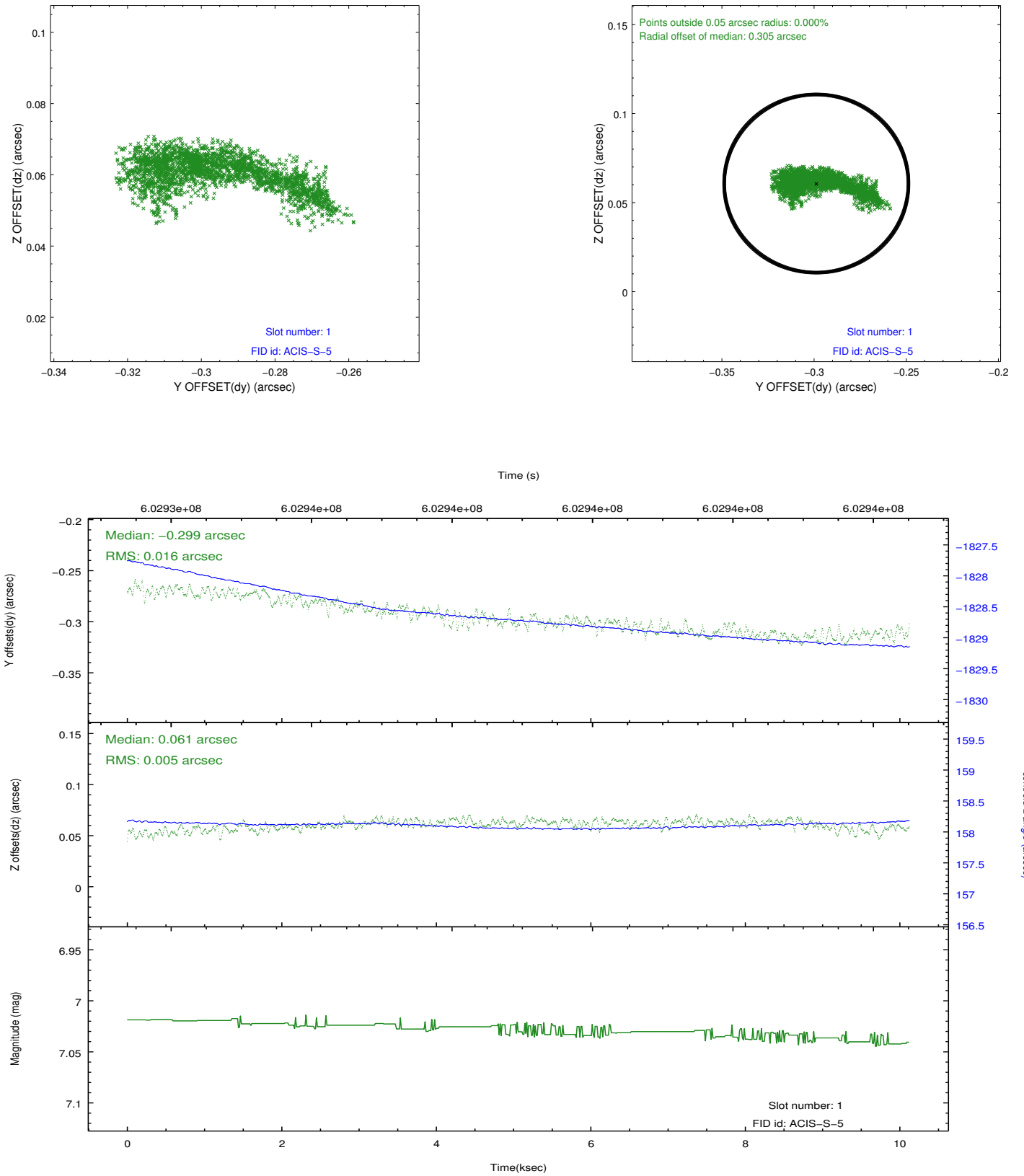


## 2.5 FID Slots

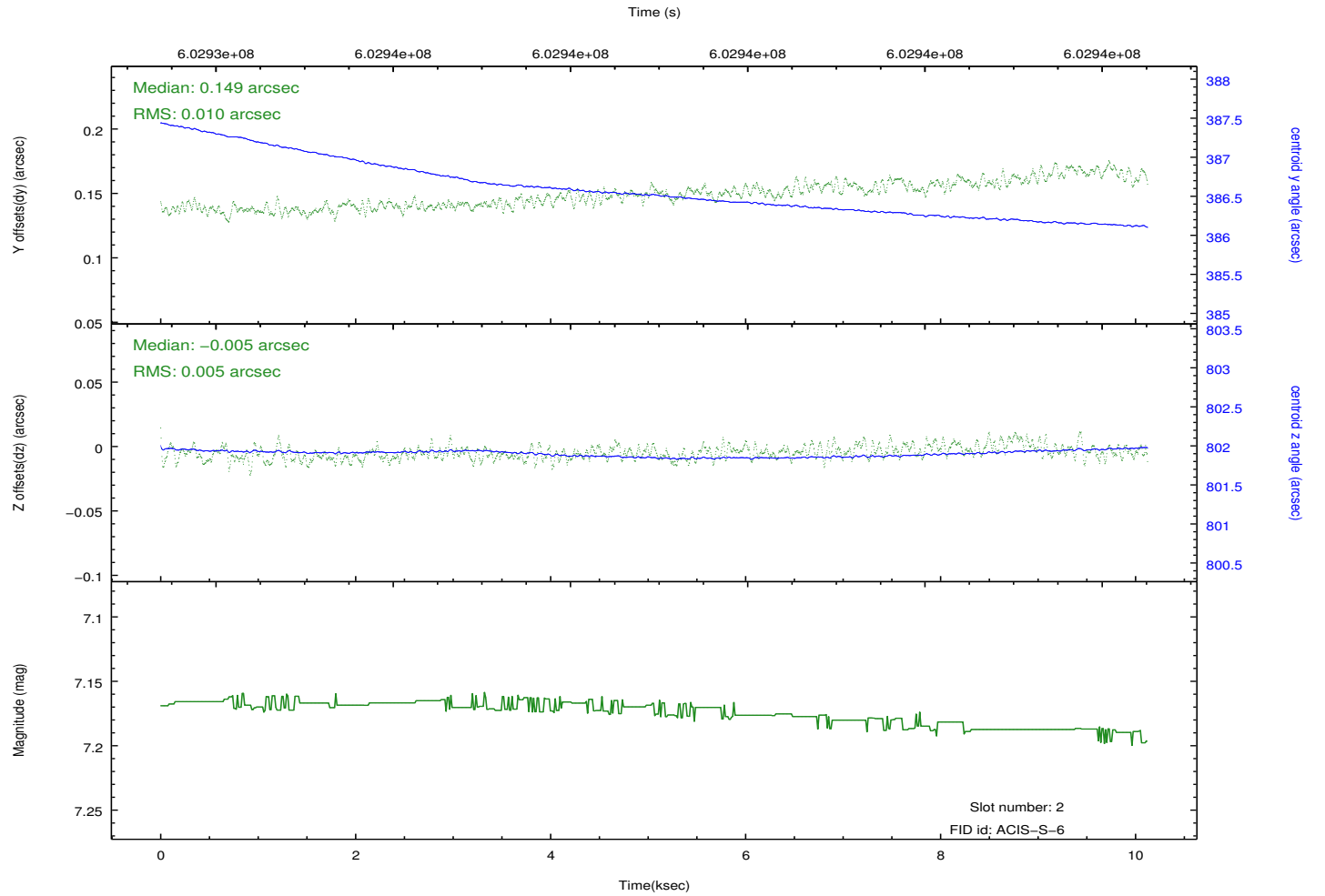
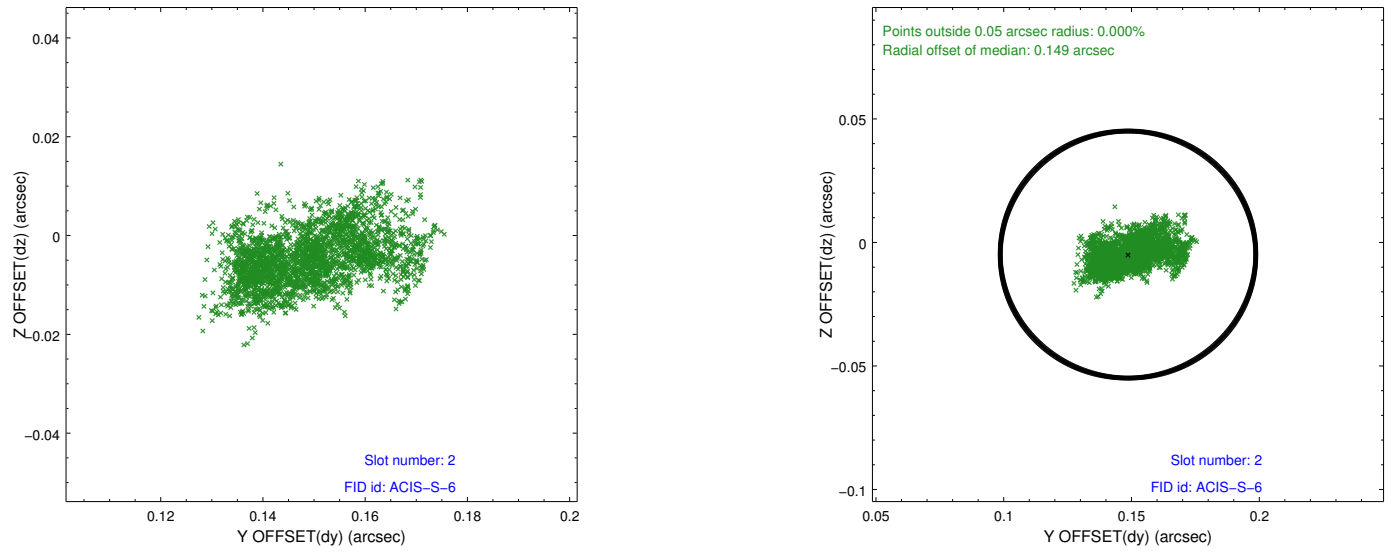
### 2.5.1 Slot 0



## 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)	2017.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9789000768661

### A.2 Comments