

# V&V Reference Report

## L2 ASCDS Version : 10.6.4

Observation 20753 - L2 Version 1  
Chandra X-Ray Center

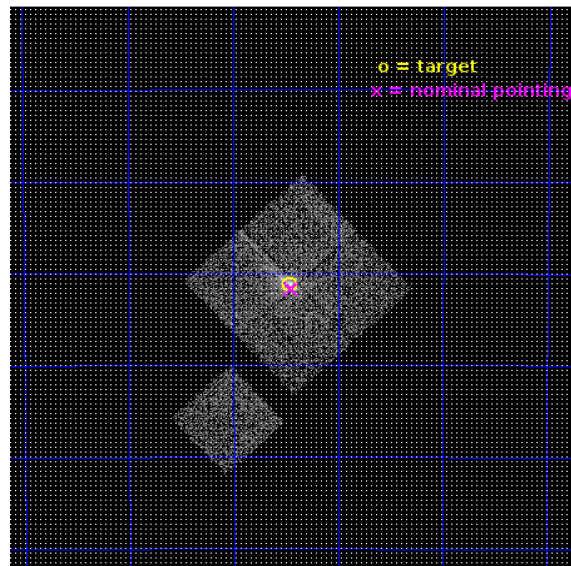
L2 Processing Date : Sep 1 2018

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# 1 Front

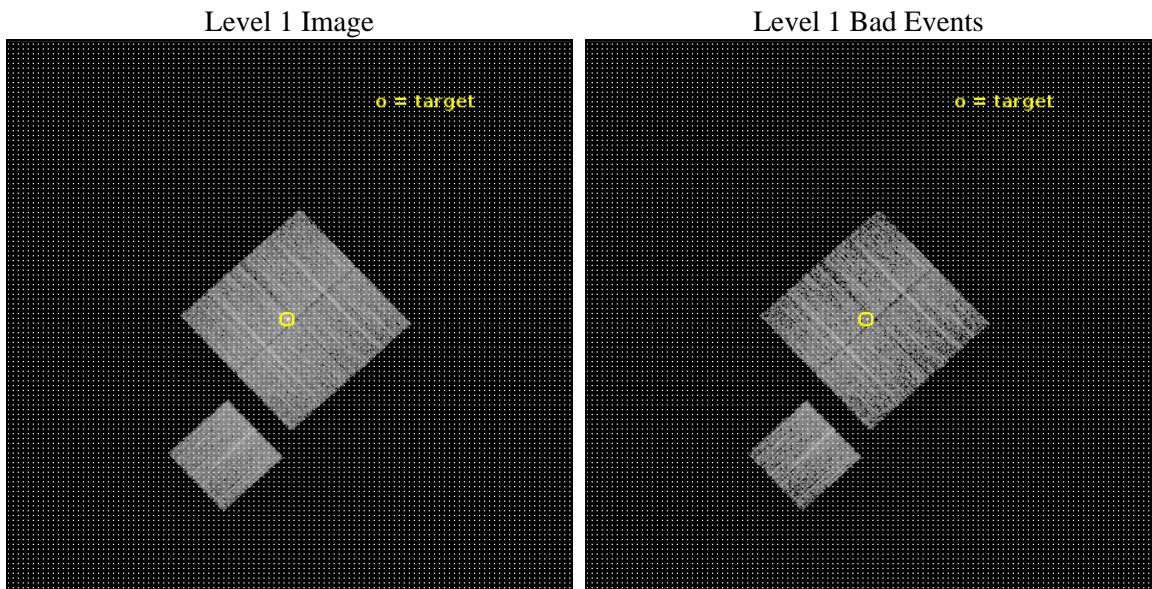
seq_num	703618	Sequence number
obs_id	20753	Observation id
title	Continuous Monitoring of the Jet in Centaurus A	Proposal title
observer	Ralph Kraft	Principal investigator
object	Centaurus A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.365	Observer's specified target RA [deg]
dec_targ	-43.019167	Observer's specified target Dec [deg]
ra_nom	201.36171354037	Nominal RA [deg]
dec_nom	-43.027965989994	Nominal Dec [deg]
roll_nom	227.15693404729	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5067.879843235	Sum of GTIs [s]
livetime	5001.6642621643	Livetime [s]
ontime0	5067.7567232847	Sum of GTIs [s]
ontime1	5067.7977632284	Sum of GTIs [s]
ontime2	5061.5569324493	Sum of GTIs [s]
ontime3	5067.879843235	Sum of GTIs [s]
ontime6	5067.7156832218	Sum of GTIs [s]
l2events	25552	Number of level 2 events



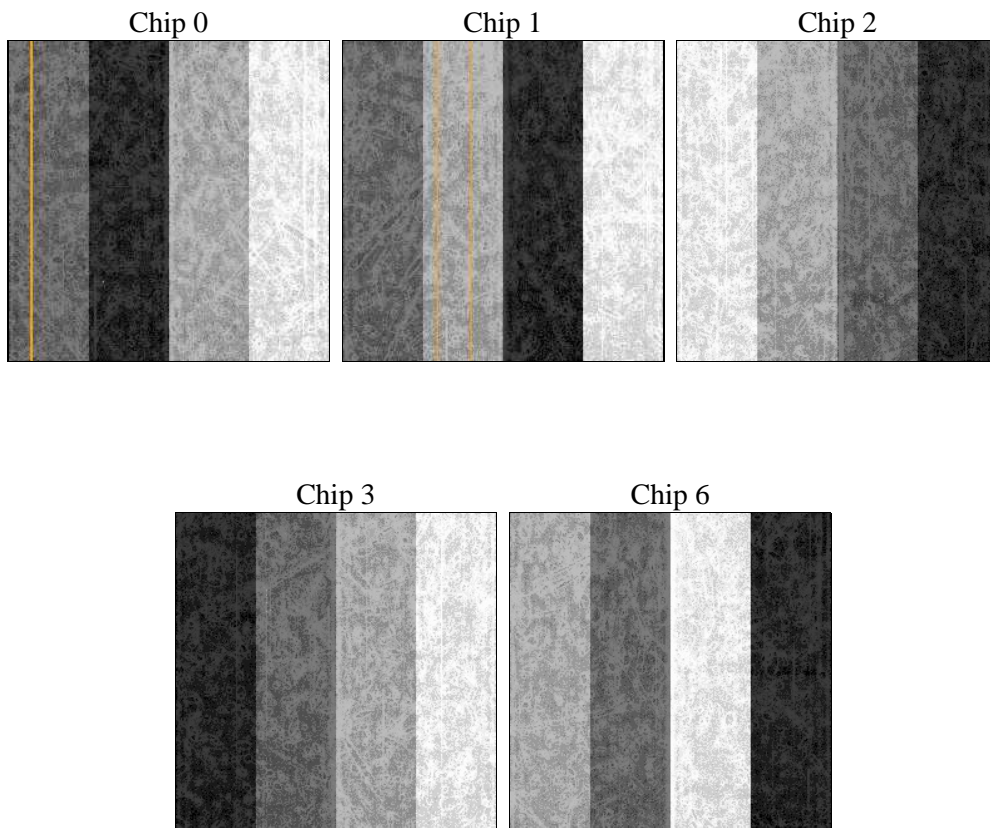
## 2 OBI

### 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	10.6.4	Processing system revision	ontime	5067.879843235	Sum of GTIs [s]
caldsver	4.7.8	&#160	ontime0	5067.7567232847	Sum of GTIs [s]
date	2018-09-01T14:24:33	Date and time of file creation	ontime1	5067.7977632284	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5061.5569324493	Sum of GTIs [s]
			ontime3	5067.879843235	Sum of GTIs [s]
			ontime6	5067.7156832218	Sum of GTIs [s]
			l1events	188779	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	33915	36625	37856	42544	37839
rejected events	28841	31042	32686	33340	33459
rejected %	85%	84%	86%	78%	88%

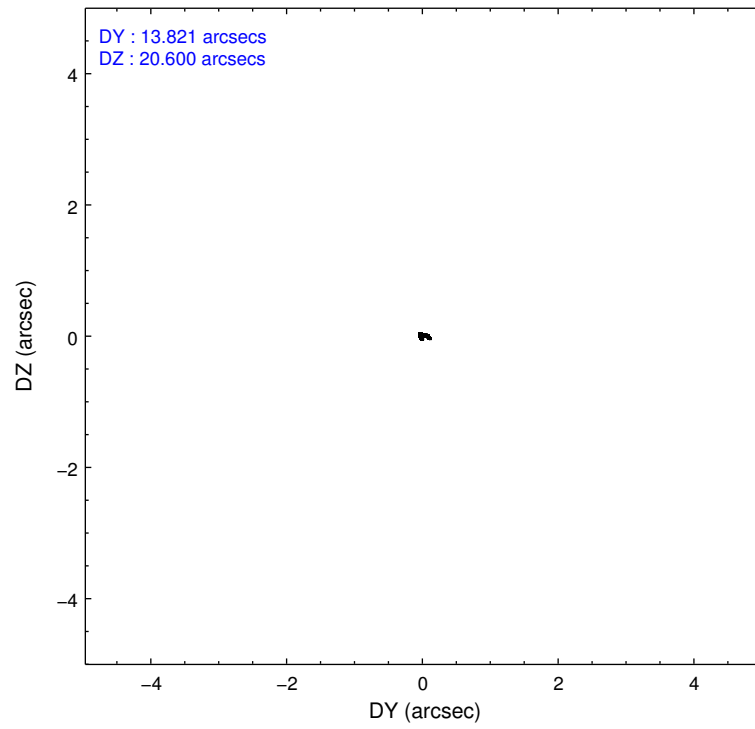
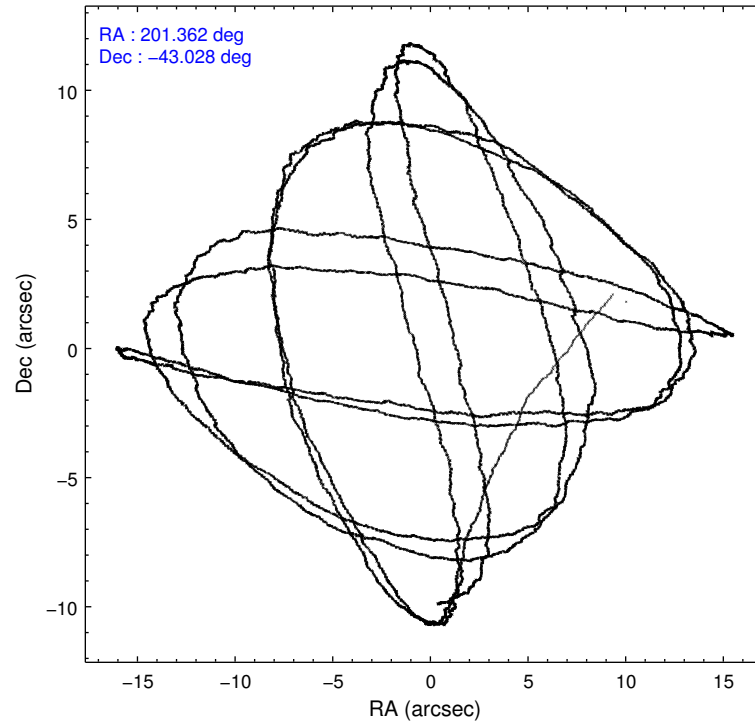
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2013	2163	2123	4846	1469
	5%	5%	5%	11%	3%
grade 1 events	30	26	29	155	20
	0%	0%	0%	0%	0%
grade 2 events	1159	1343	1206	1595	1020
	3%	3%	3%	3%	2%
grade 3 events	487	510	442	691	420
	1%	1%	1%	1%	1%
grade 4 events	445	467	476	641	457
	1%	1%	1%	1%	1%
grade 5 events	1706	1760	1663	2017	1777
	5%	4%	4%	4%	4%
grade 6 events	975	1104	925	1443	1019
	2%	3%	2%	3%	2%
grade 7 events	27100	29252	30992	31156	31657
	79%	79%	81%	73%	83%

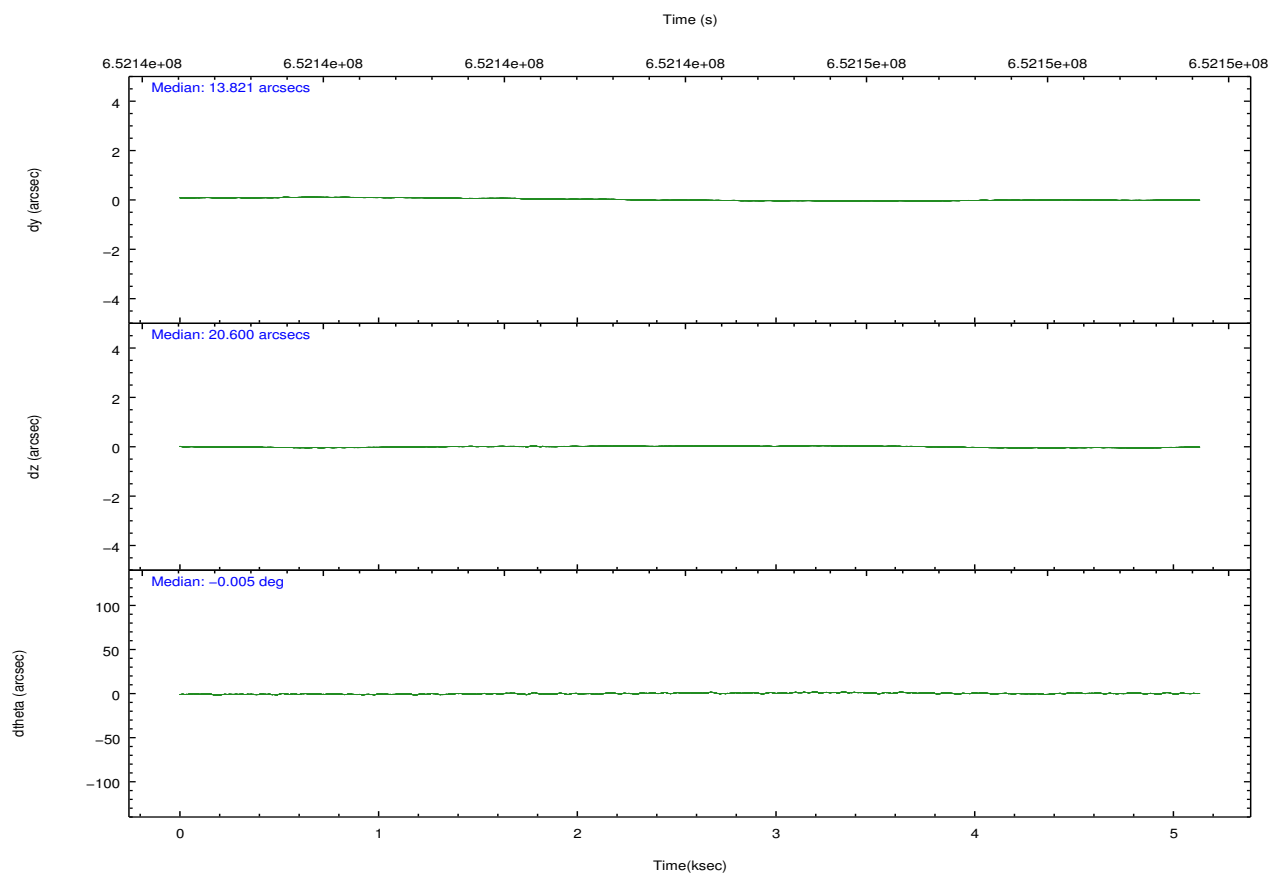
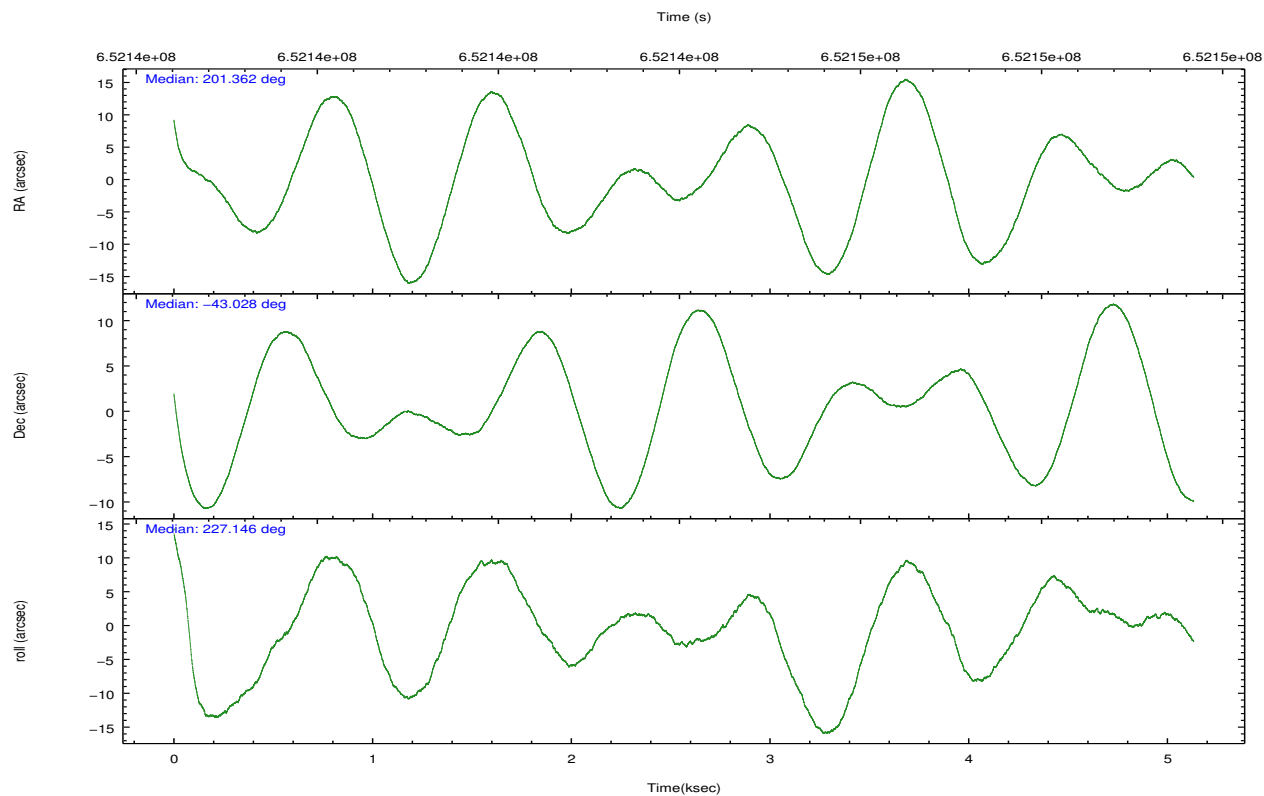


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	201.369926	201.3617135403692	CCD I2 on	Y	Y
[deg] Pointing Dec	-43.000972	-43.02796598999426	CCD I3 on	Y	Y
[deg] Pointing Roll	226.953801	227.1569340472874	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	652142612.184000	652141277.6421	CCD S5 on	N	N
Observation start date	2018-08-31T22:42:23	2018-08-31T22:21:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652147612.184000	652148378.84252	On-chip summing requested	N	N
Observation end date	2018-09-01T00:05:43	2018-09-01T00:19:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



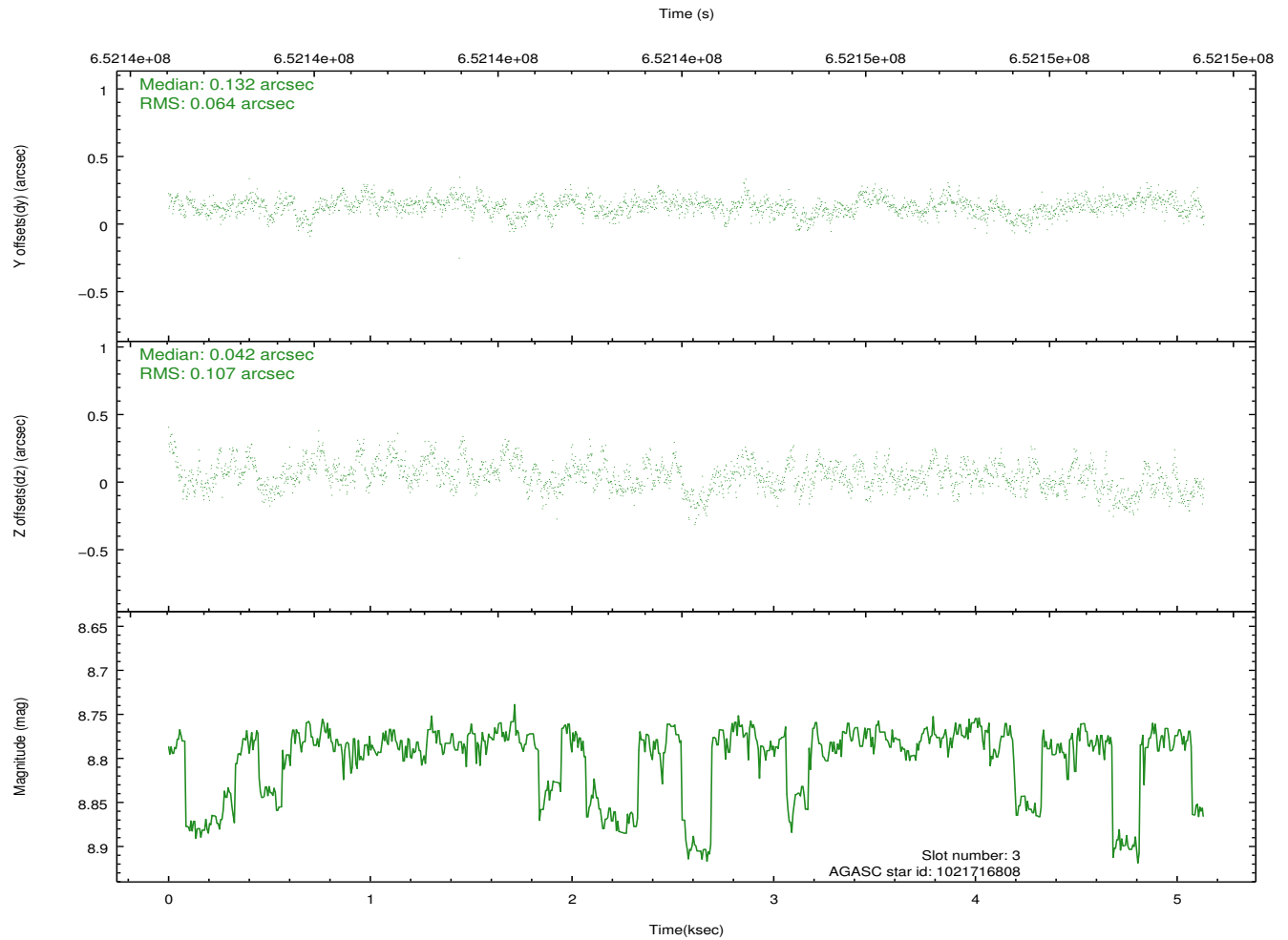
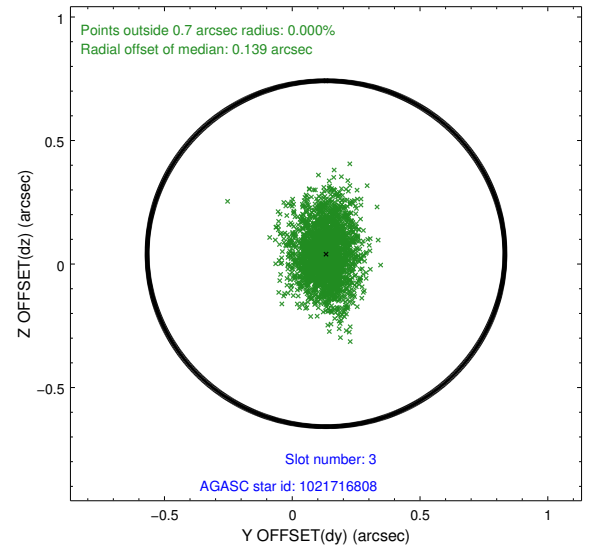
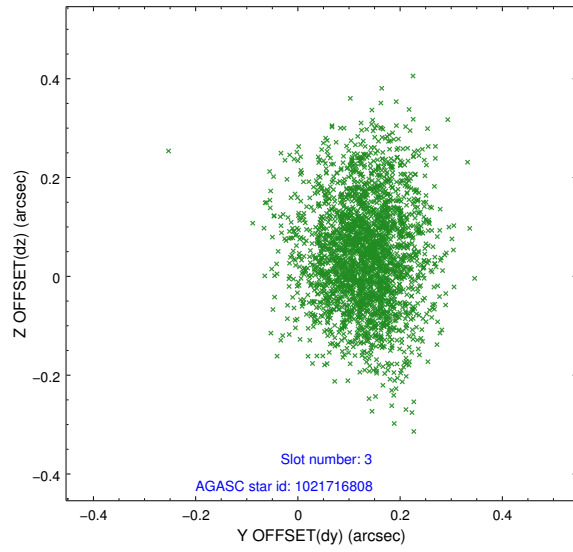


Slot Statistics

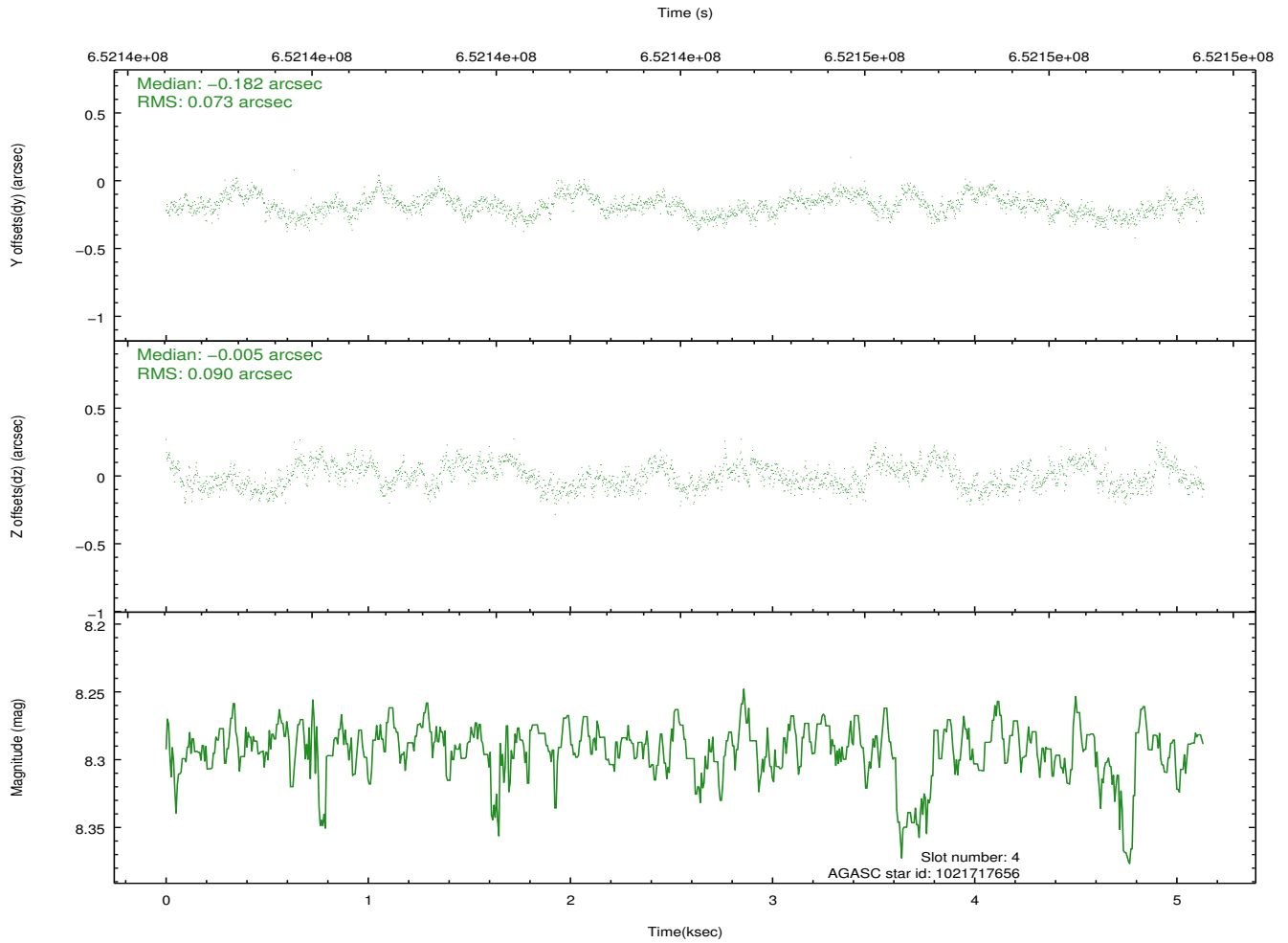
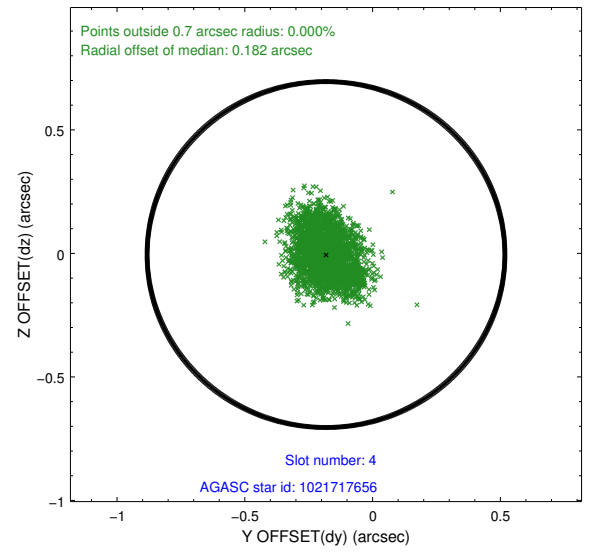
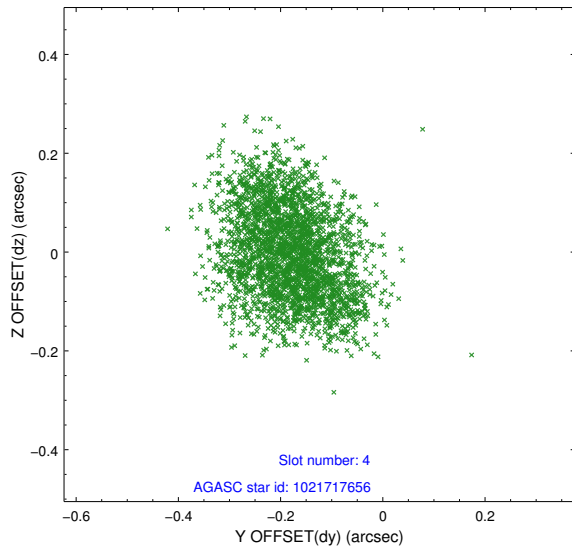
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.07	1252	1.000	0.058	-0.035	0.010	0.016	0.000000	0.000000	925.74	-844
1	FID		ACIS-I-5	7.05	1252	1.000	-0.317	0.028	0.007	0.013	0.000000	0.000000	-1822.18	1052
2	FID		ACIS-I-6	7.07	1252	1.000	0.168	0.077	0.007	0.012	0.000000	0.000000	389.99	1698
3	GUIDE	used	1021716808	8.79	2504	1.000	0.132	0.042	0.131	0.225	200.901189	-42.531395	-382.94	-2060
4	GUIDE	used	1021717656	8.29	2502	1.000	-0.182	-0.005	0.125	0.191	201.139642	-43.082878	629.41	-241
5	GUIDE	used	1021719704	7.57	2504	1.000	0.027	-0.117	0.116	0.187	200.511976	-43.050426	1679.89	-1519
6	GUIDE	used	1021721672	9.48	2501	1.000	-0.018	0.028	0.182	0.283	201.740358	-43.079729	-455.22	906
7	GUIDE	used	1022235840	9.39	2500	1.000	0.057	0.048	0.238	0.367	201.679306	-43.544276	879.26	1926

## 2.4 Star Slots

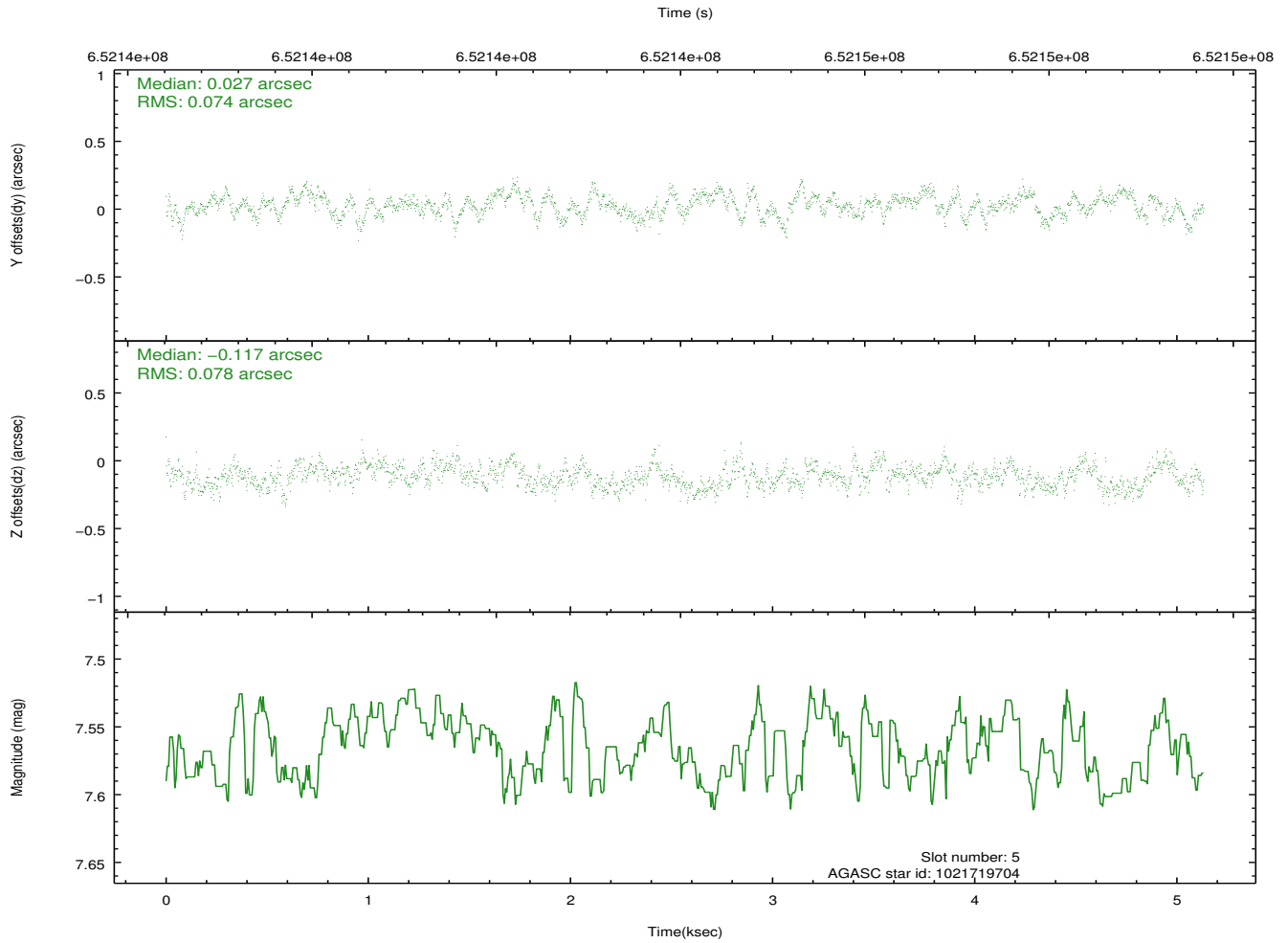
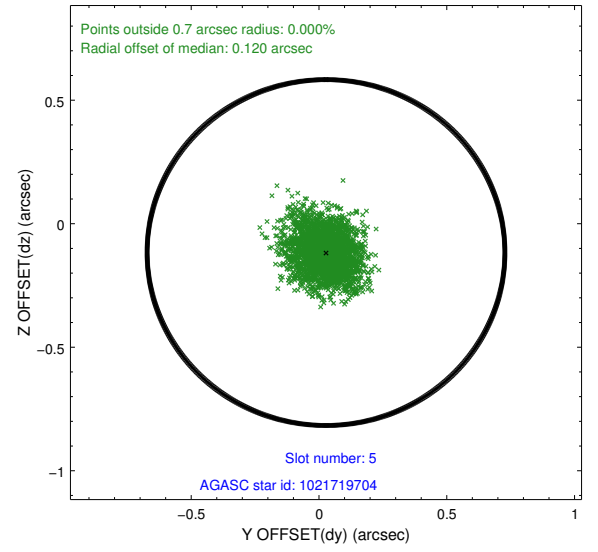
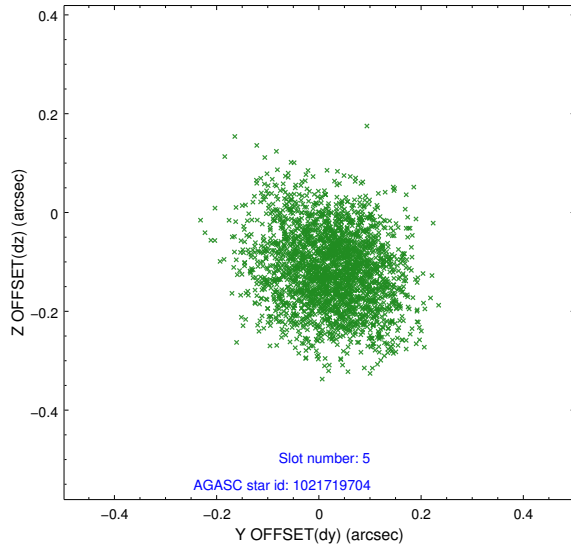
### 2.4.1 Slot 3



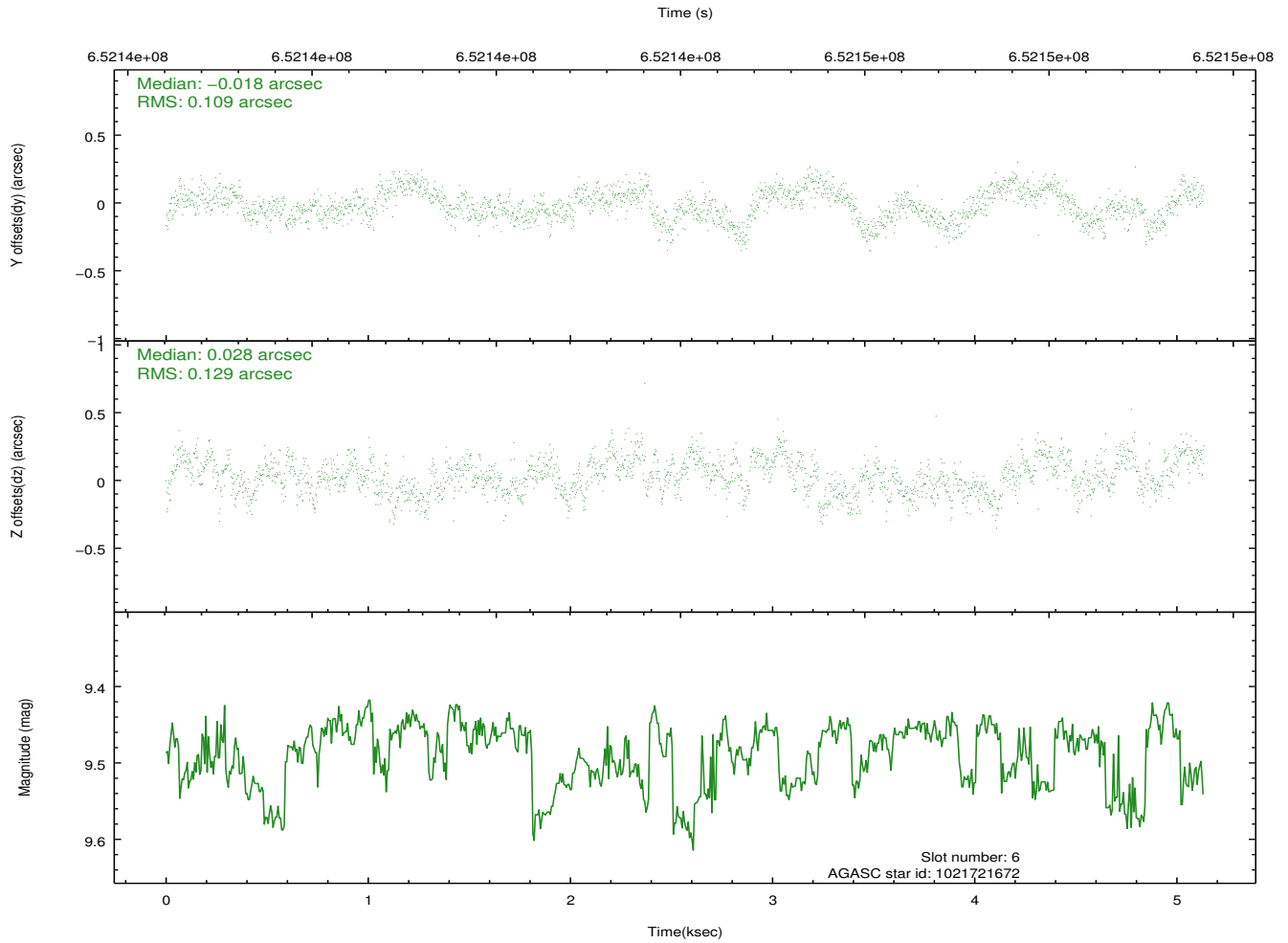
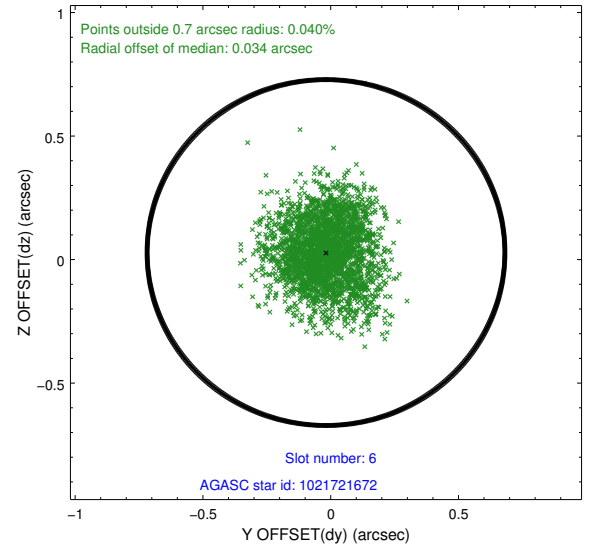
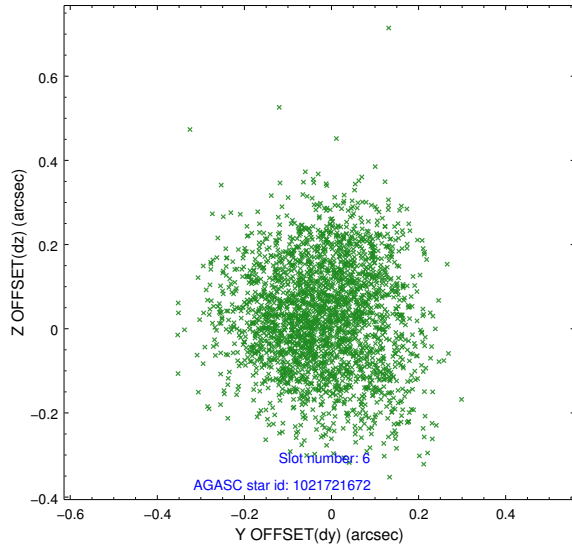
## 2.4.2 Slot 4



### 2.4.3 Slot 5

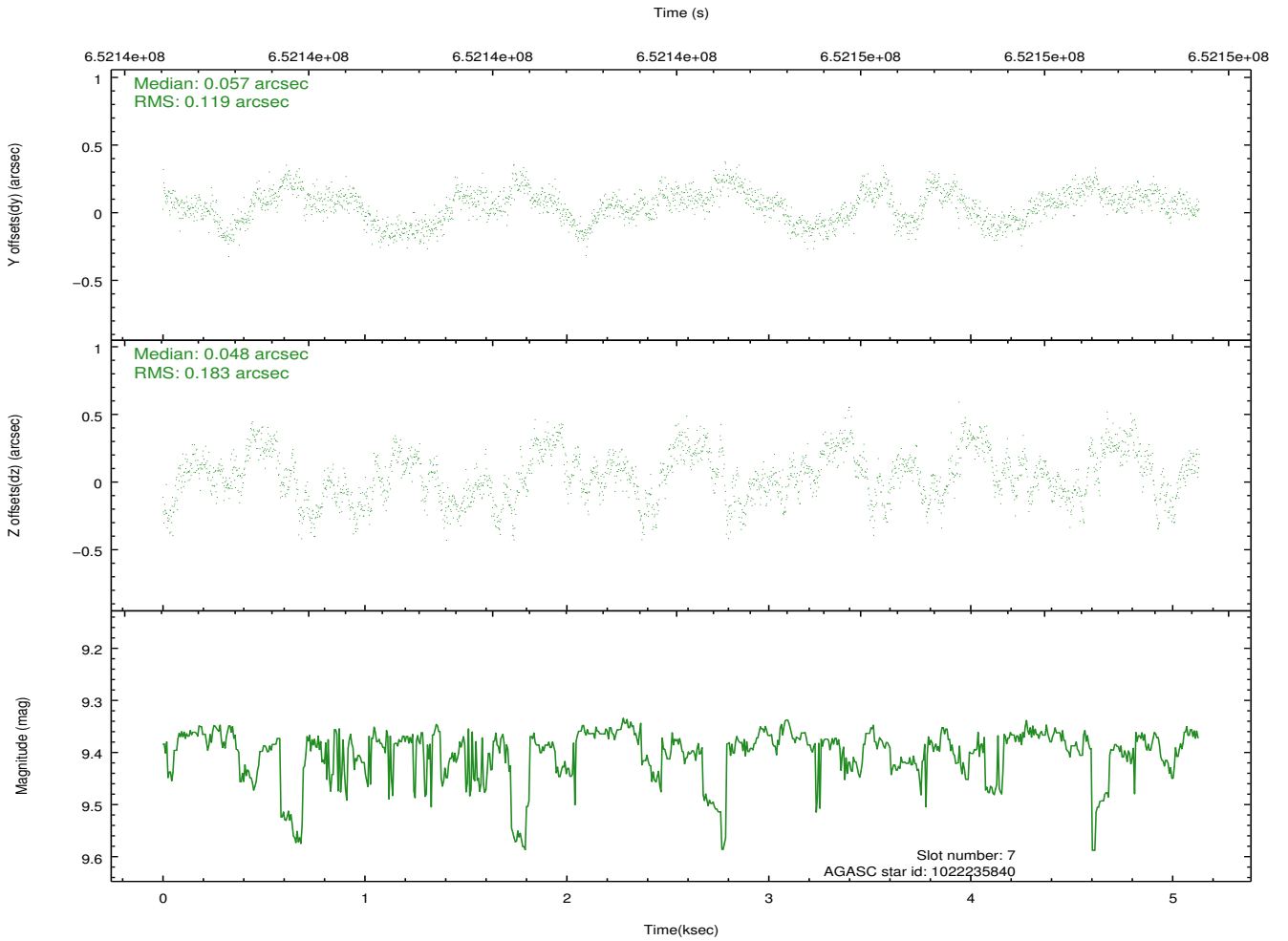
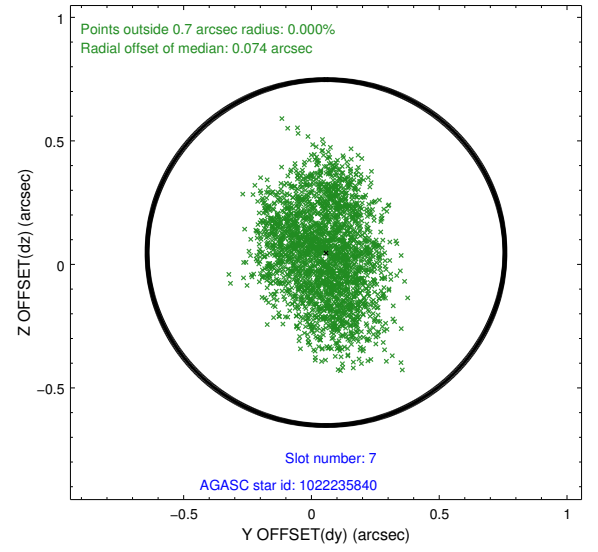
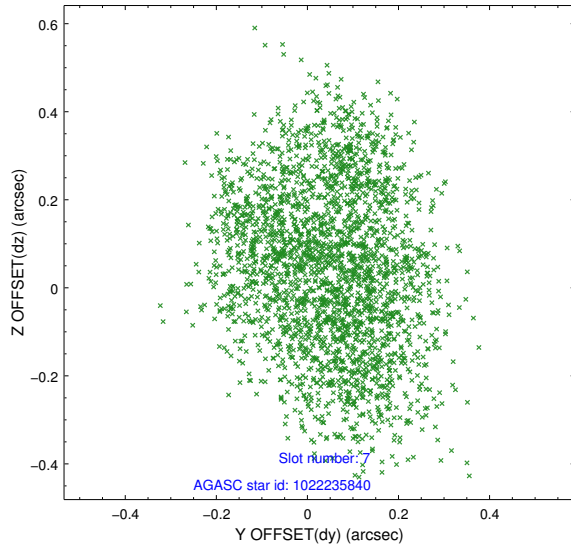


## 2.4.4 Slot 6



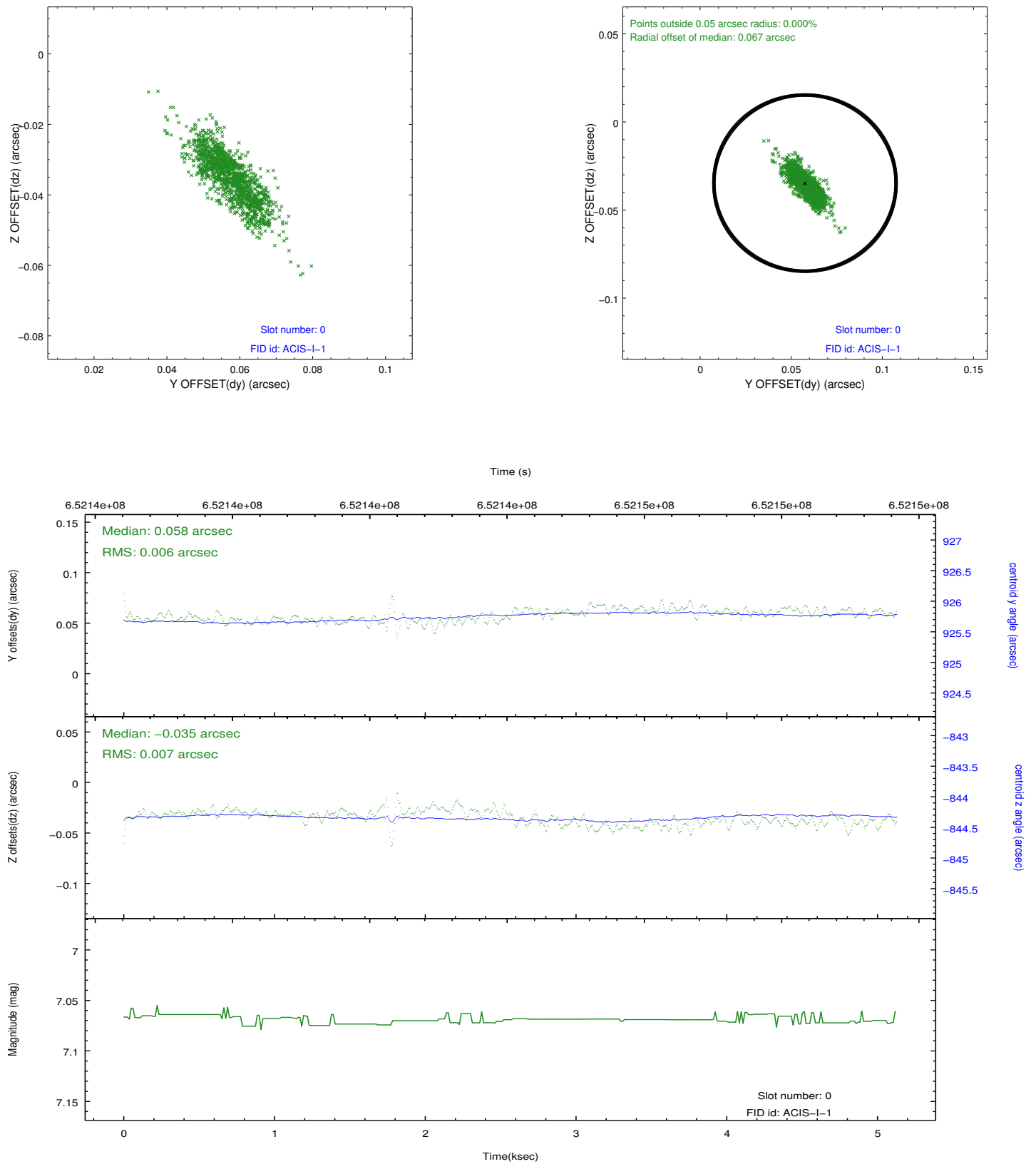


## 2.4.5 Slot 7

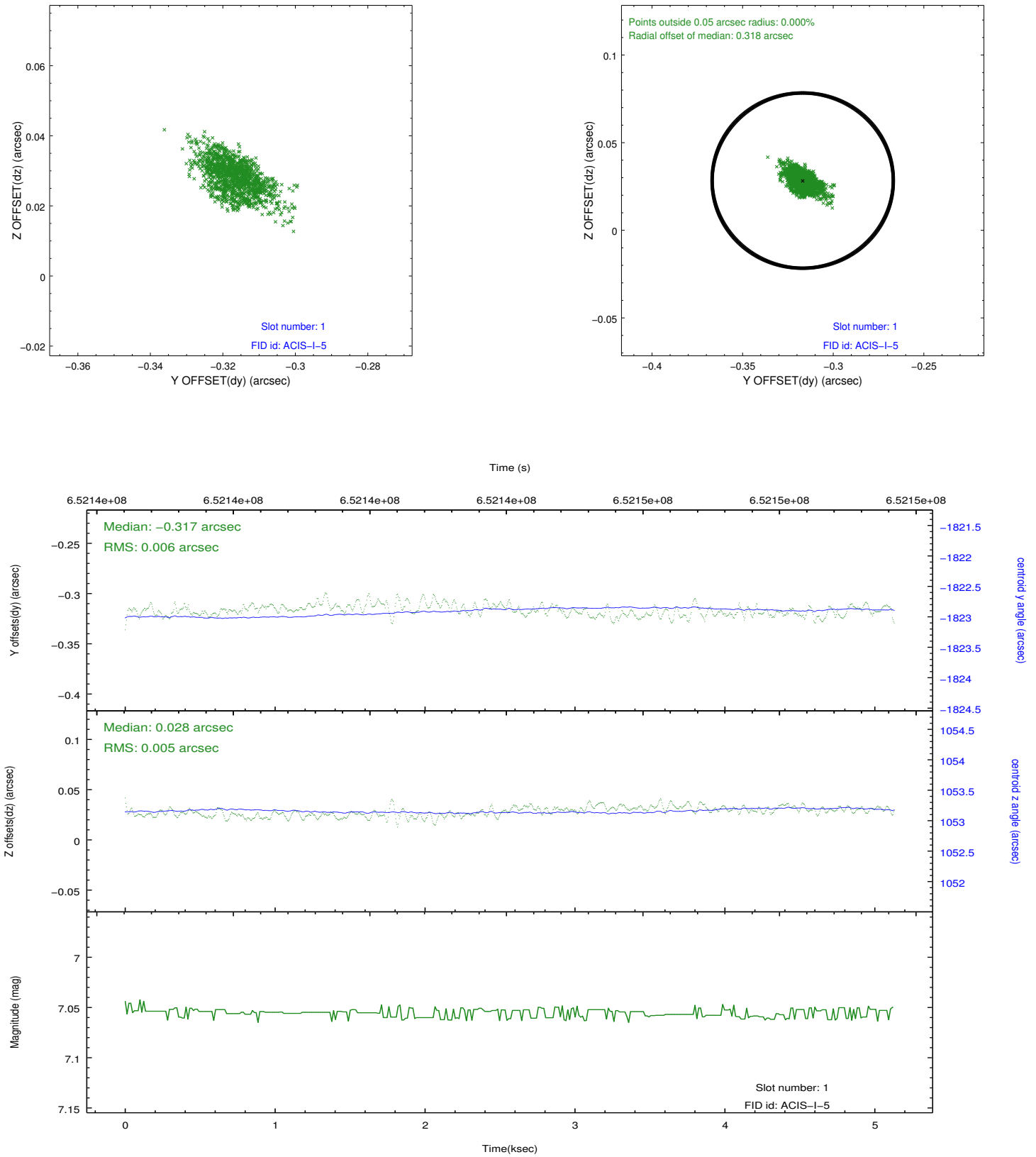


## 2.5 FID Slots

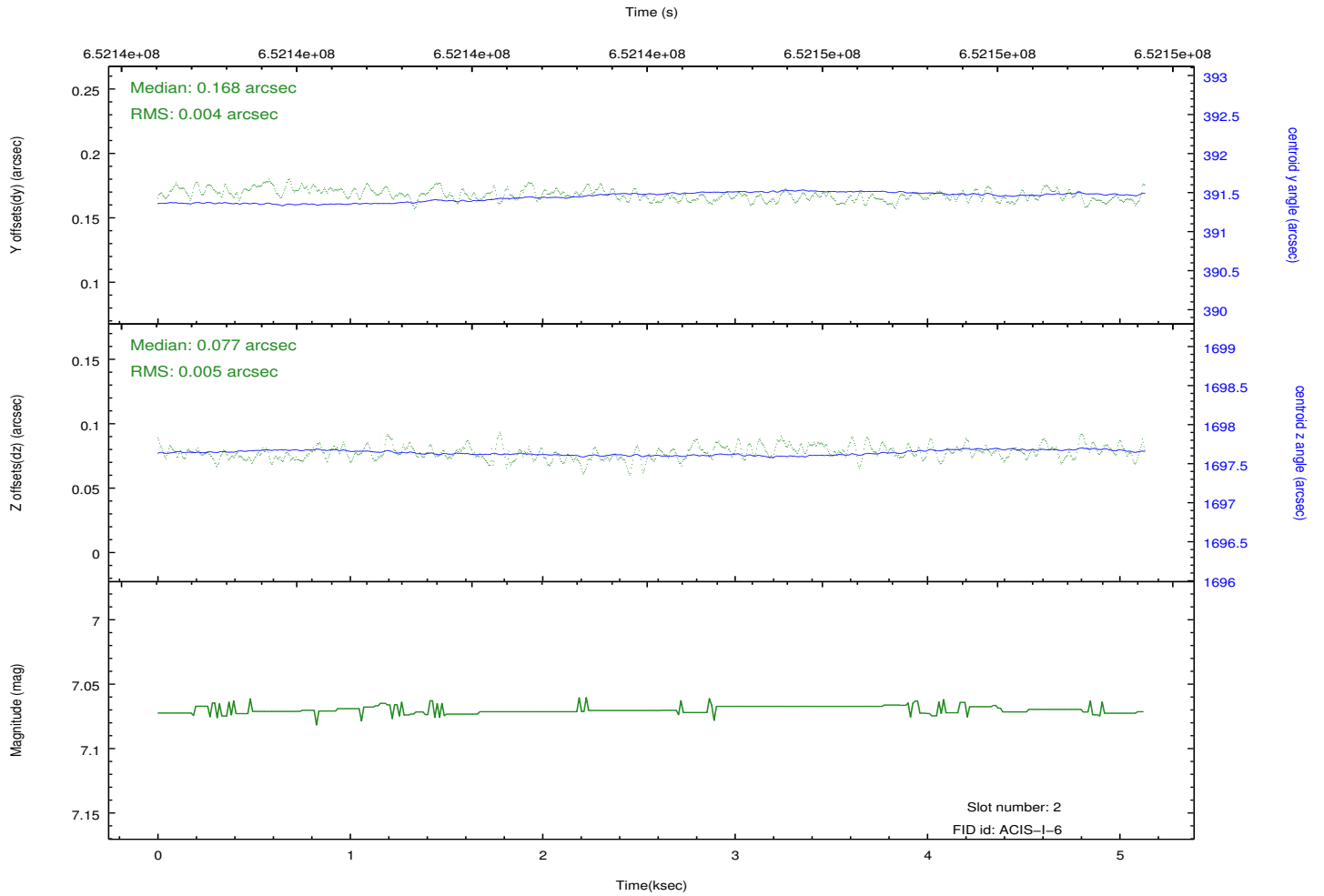
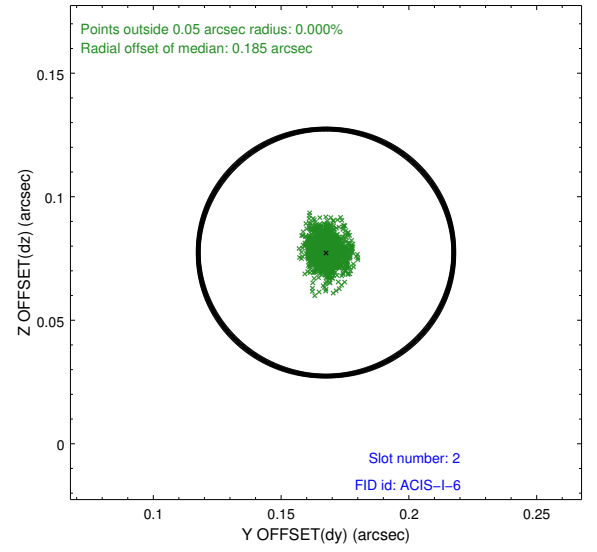
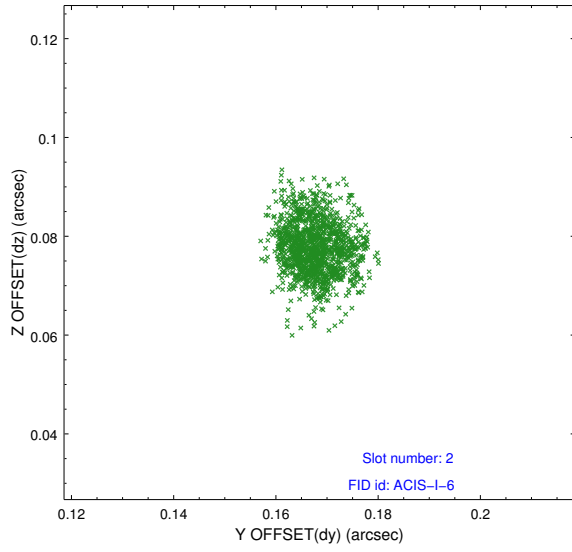
### 2.5.1 Slot 0



## 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)	2018.09.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.067879843235

### A.2 Comments