

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18117 - L2 Version 1  
Chandra X-Ray Center

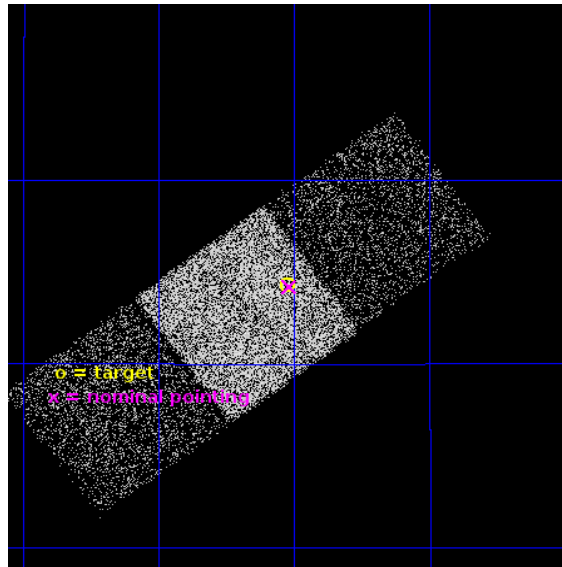
L2 Processing Date : Apr 4 2016

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# 1 Front

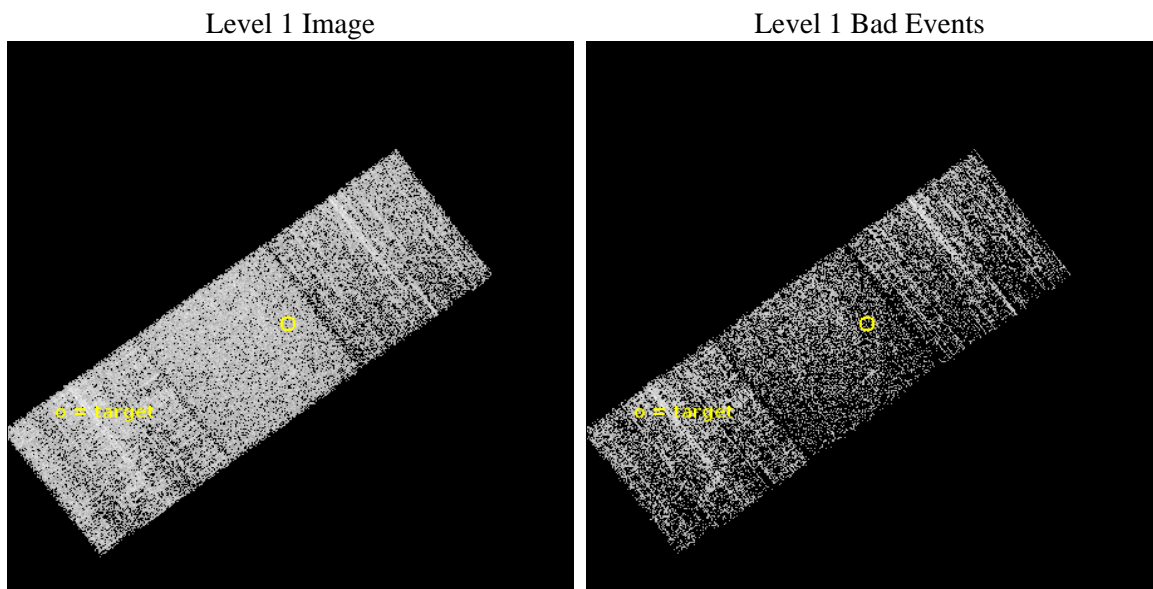
seq_num	703183	Sequence number
obs_id	18117	Observation id
title	Bridging the Gap Between Weak-Line and Typical Quasars	Proposal ti
observer	William Brandt	Principal investigator
object	SDSS J1407+1904	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.756667	Observer's specified target RA [deg]
dec_targ	19.071639	Observer's specified target Dec [deg]
ra_nom	211.75442720513	Nominal RA [deg]
dec_nom	19.070038760872	Nominal Dec [deg]
roll_nom	143.1937173277	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5111.9000394344	Sum of GTIs [s]
livetime	5045.1093020932	Livetime [s]
ontime6	5111.9000394344	Sum of GTIs [s]
ontime7	5111.9000394344	Sum of GTIs [s]
ontime8	5111.9000394344	Sum of GTIs [s]
l2events	24486	Number of level 2 events



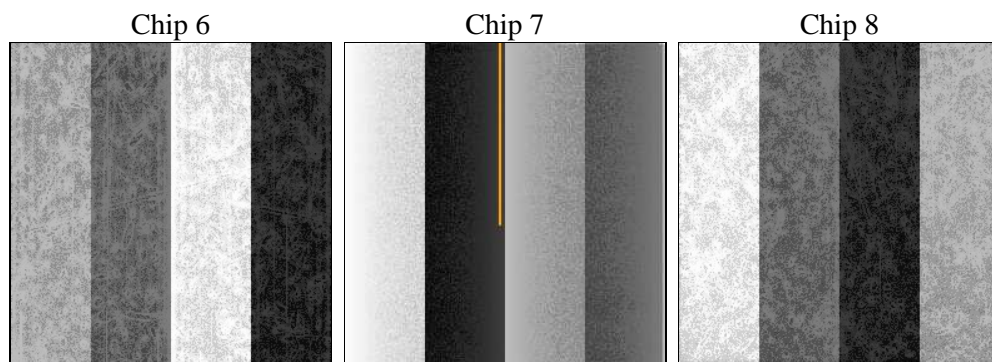
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	5111.9000394344	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime6	5111.9000394344	Sum of GTIs [s]
date	2016-04-04T23:56:40	Date and time of file creation	ontime7	5111.9000394344	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	5111.9000394344	Sum of GTIs [s]
			l1events	116599	Number of level 1 events

### 2.1.4 Events

	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	31668	42141	42790
rejected events	28039	23961	32079
rejected %	88%	56%	74%

	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	1157	1499	2800
	3%	3%	6%
grade 1 events	17	52	27
	0%	0%	0%
grade 2 events	870	3782	2764
	2%	8%	6%
grade 3 events	385	1362	1027
	1%	3%	2%
grade 4 events	347	1433	1012
	1%	3%	2%
grade 5 events	1463	3967	2308
	4%	9%	5%
grade 6 events	873	10121	3112
	2%	24%	7%
grade 7 events	26556	19925	29740
	83%	47%	69%

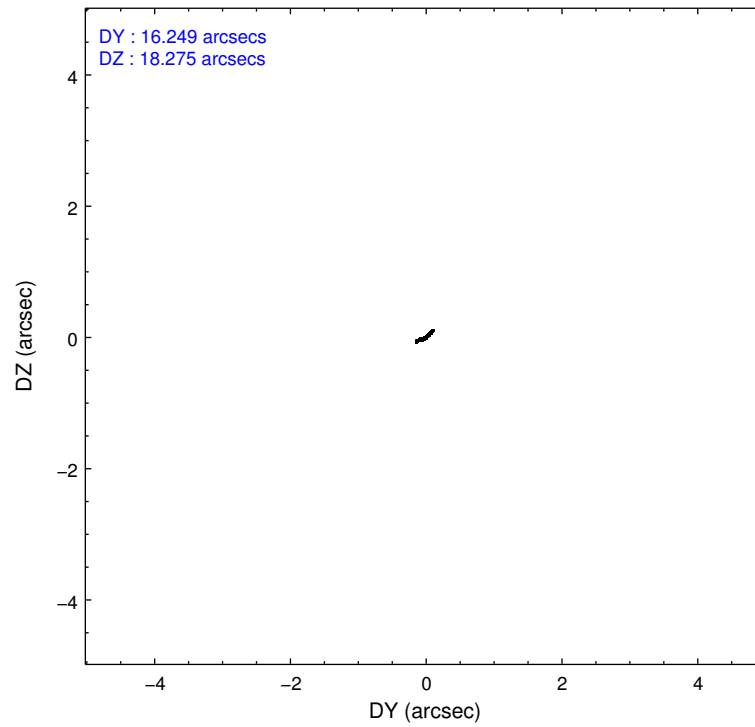
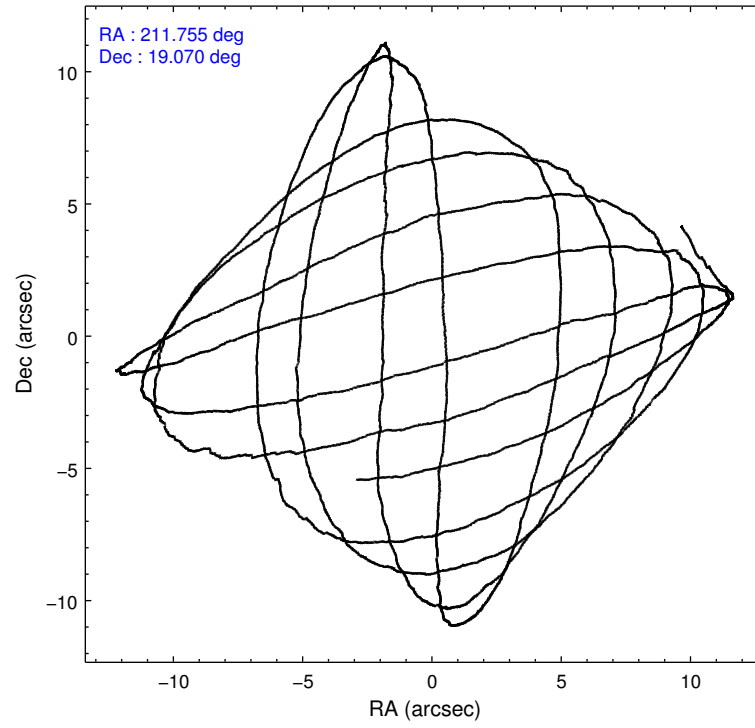


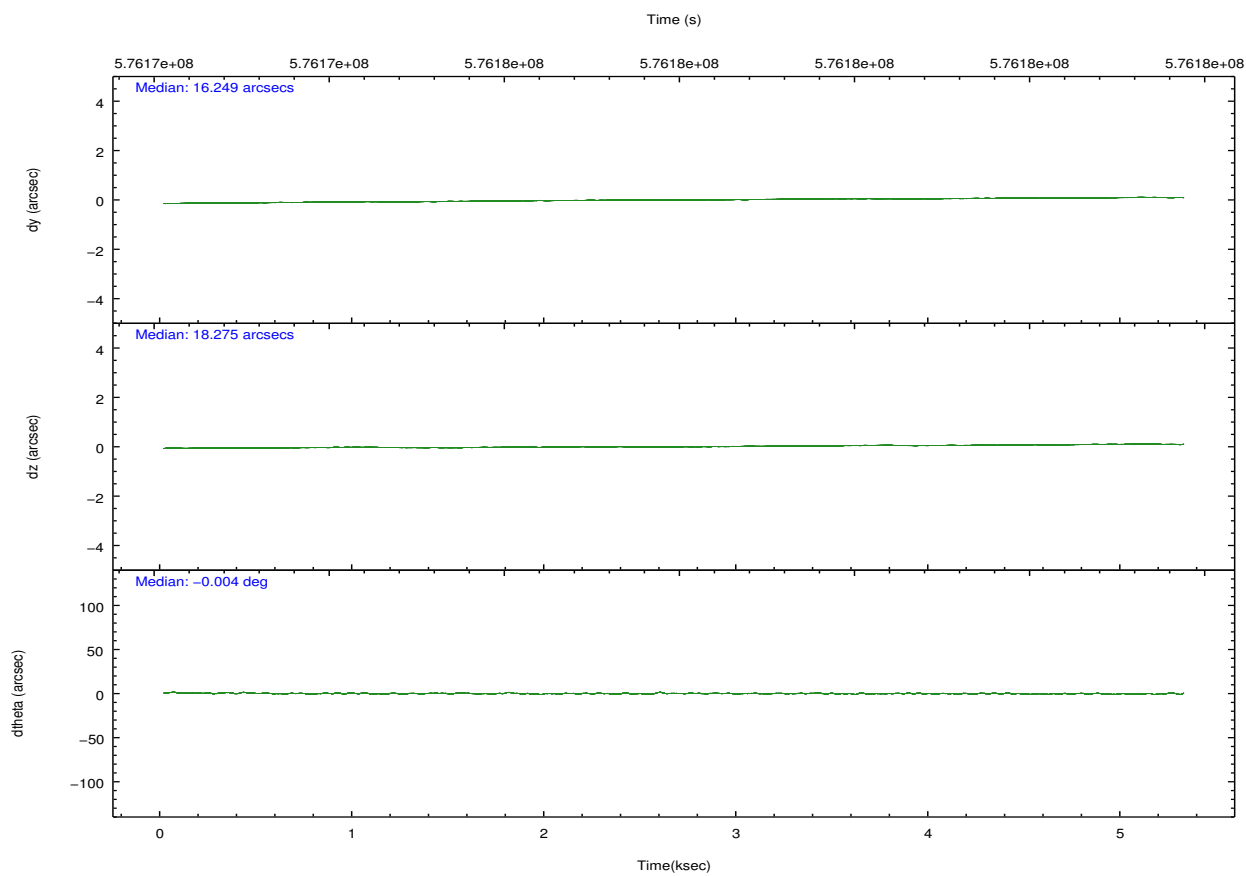
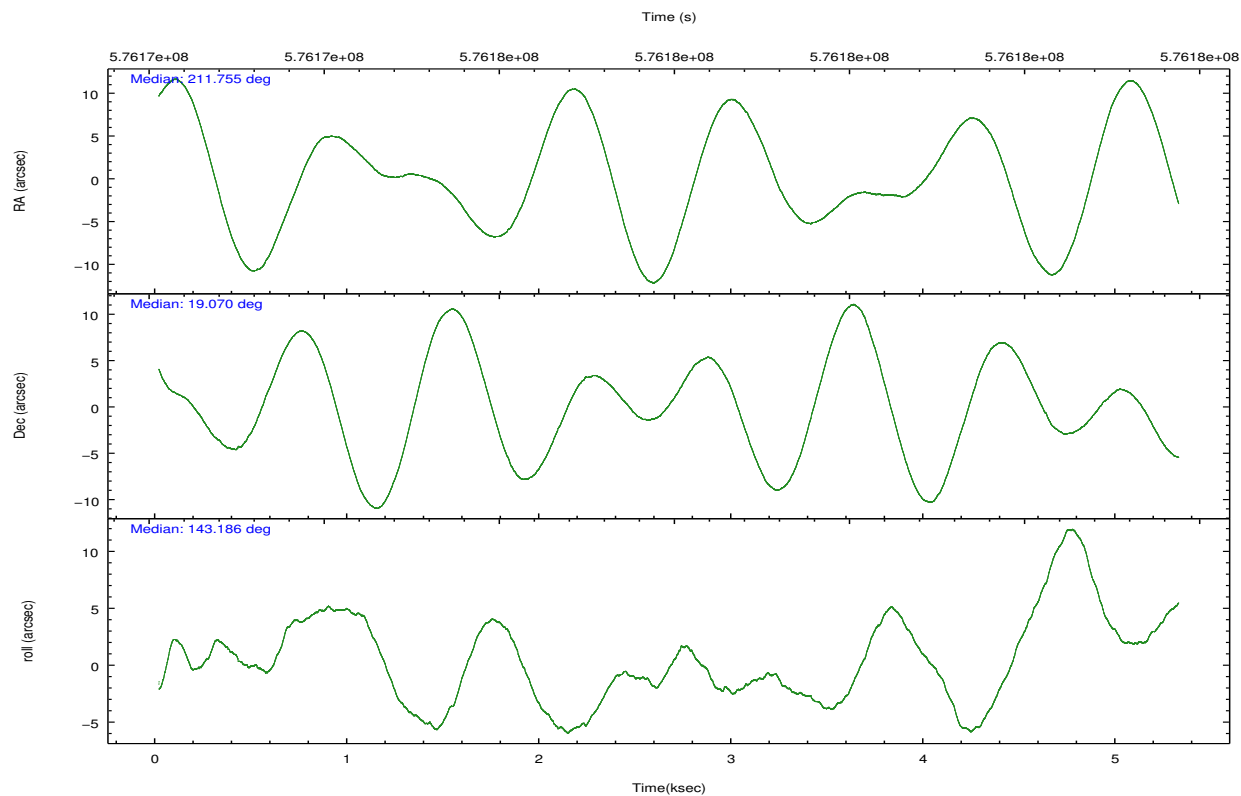
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	211.783195	211.7544272051273
[deg] Pointing Dec	19.067178	19.07003876087176
[deg] Pointing Roll	143.027695	143.1937173277049
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	576173645.184000	576172742.72847
Observation start date	2016-04-04T16:12:57	2016-04-04T15:59:02
[s] Observation end time (MET)	576178645.184000	576179339.1163501
Observation end date	2016-04-04T17:36:17	2016-04-04T17:48:59
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



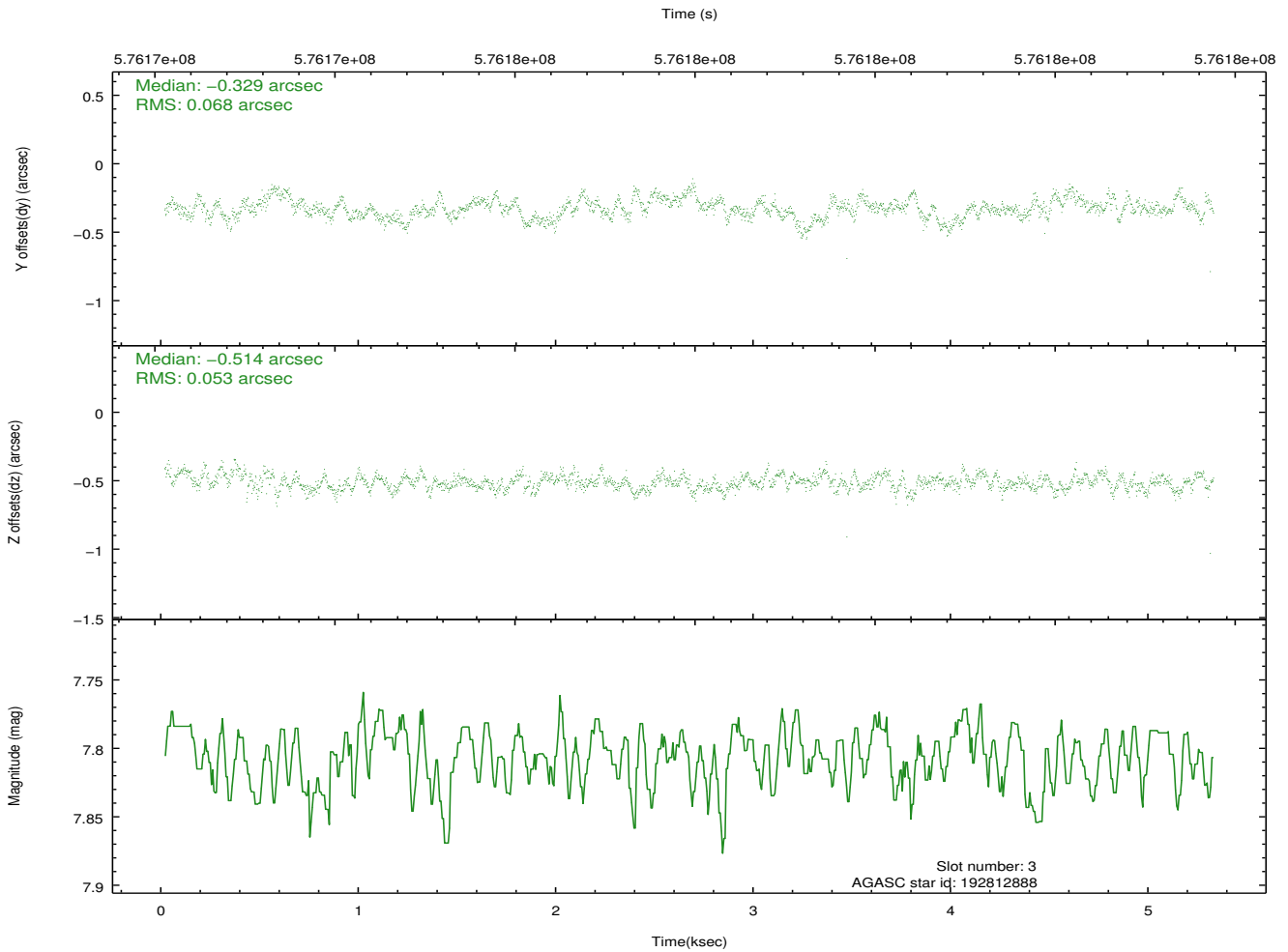
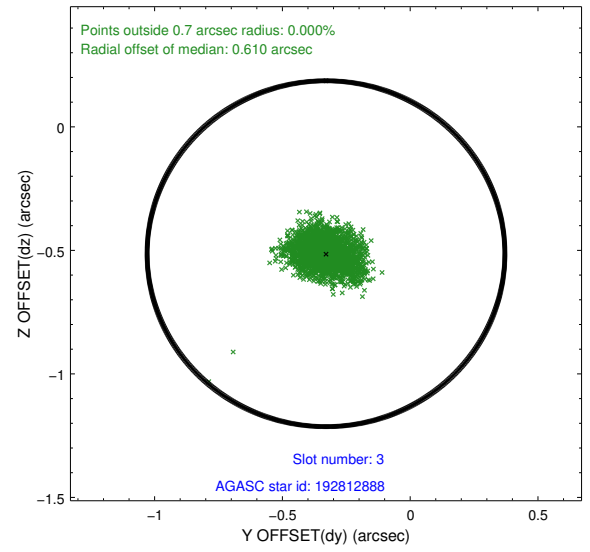
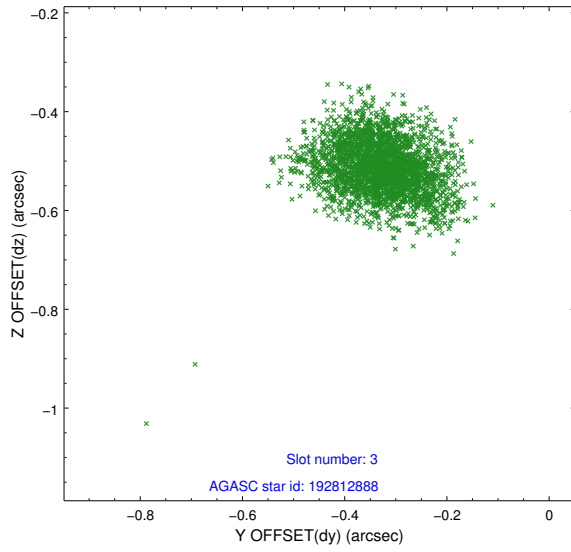


### Slot Statistics

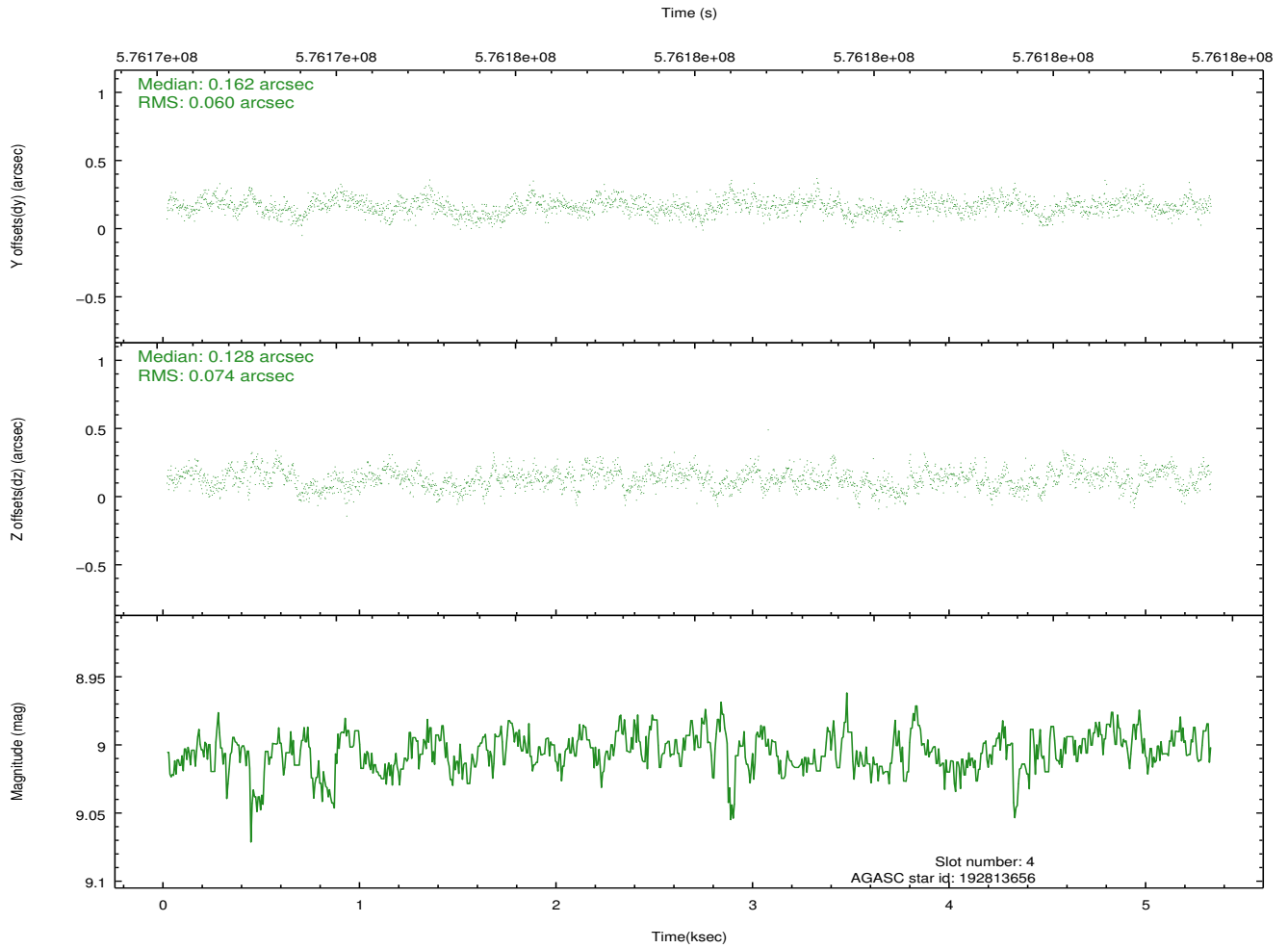
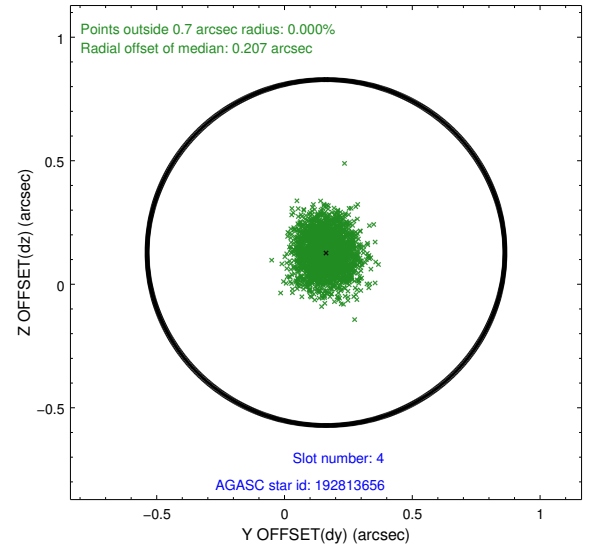
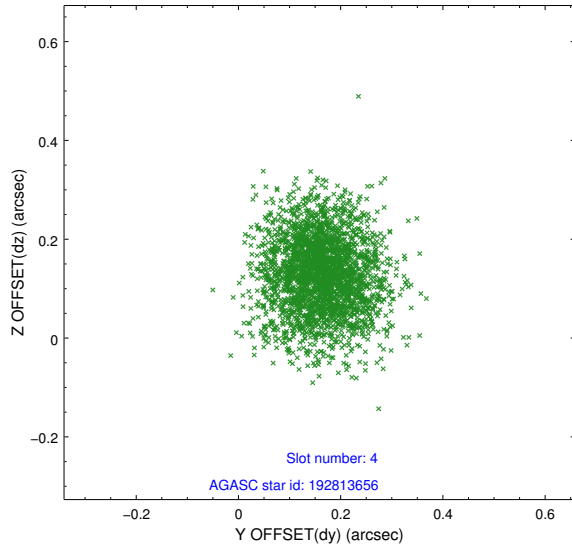
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	1296	-0.181	-0.143	0.007	0.012	0.000000	0.000000	-769.43	-1739.84
1	FID		ACIS-S-4	7.23	1296	0.441	0.125	0.006	0.010	0.000000	0.000000	2143.95	167.72
2	FID		ACIS-S-5	7.24	1296	-0.291	0.026	0.007	0.012	0.000000	0.000000	-1820.92	162.59
3	GUIDE	used	192812888	7.81	2592	-0.329	-0.514	0.090	0.151	211.135167	19.177364	2001.37	1007.30
4	GUIDE	used	192813656	9.00	2592	0.162	0.128	0.102	0.165	212.096471	19.325541	-288.90	-1383.01
5	GUIDE	used	192815016	9.68	2591	-0.146	-0.282	0.159	0.270	211.669354	18.488824	-940.48	1896.51
6	GUIDE	used	192815432	8.90	2585	0.126	0.207	0.119	0.189	212.224732	19.467318	-328.17	-2052.03
7	GUIDE	used	192811344	8.81	2587	0.187	0.457	0.091	0.153	212.554970	19.355331	-1465.92	-2409.67

## 2.4 Star Slots

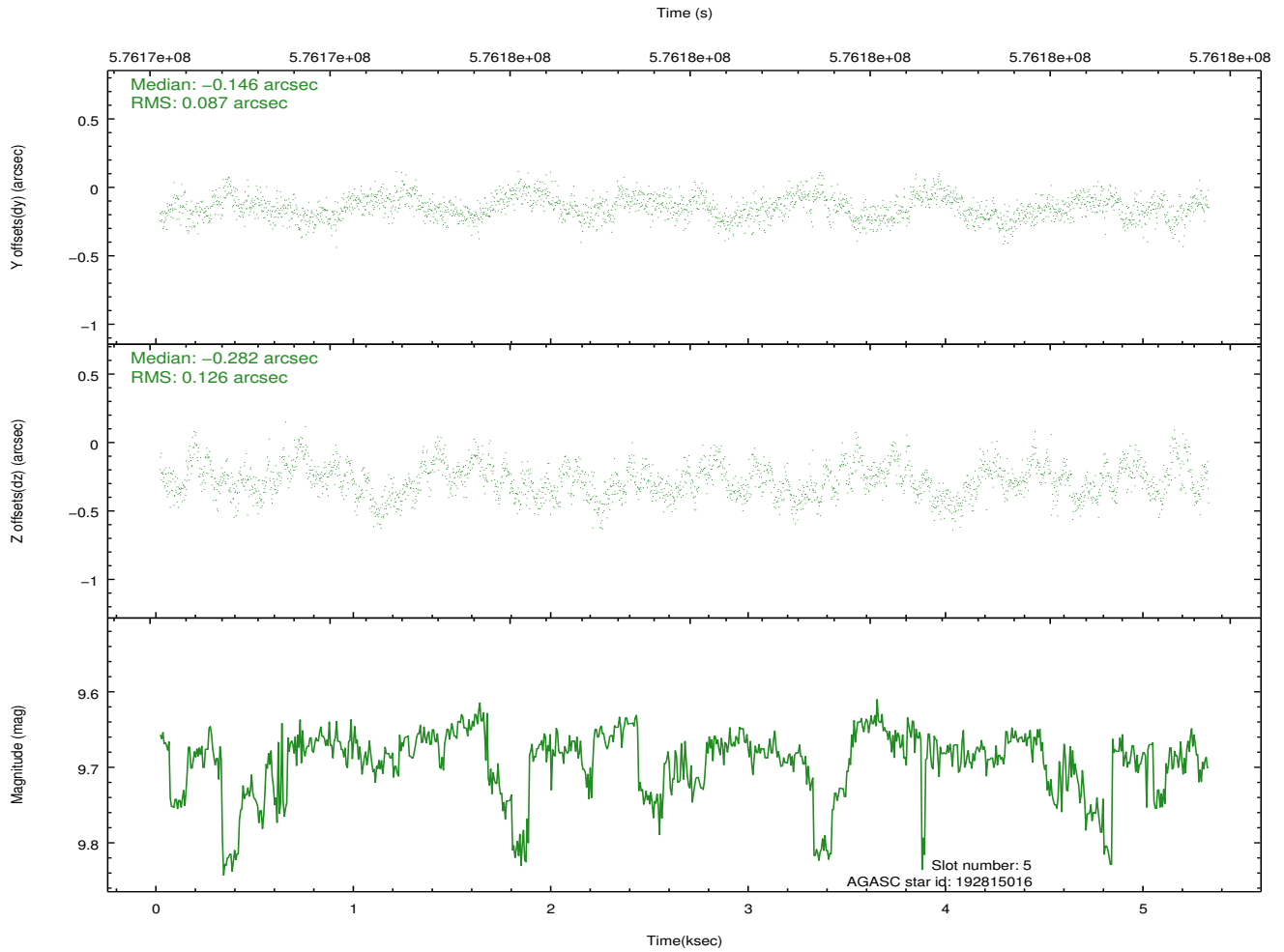
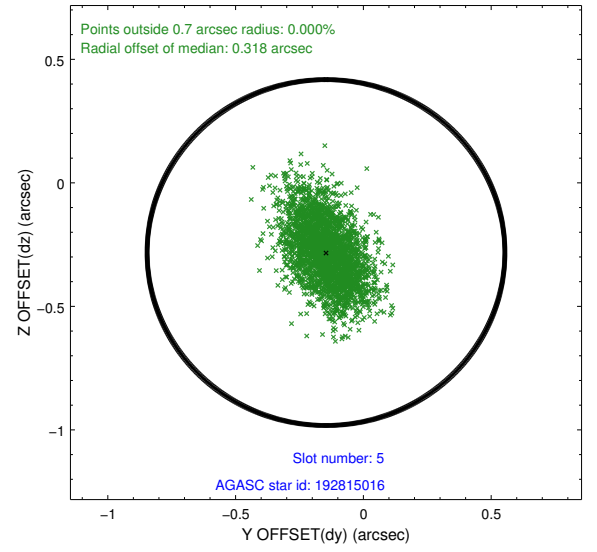
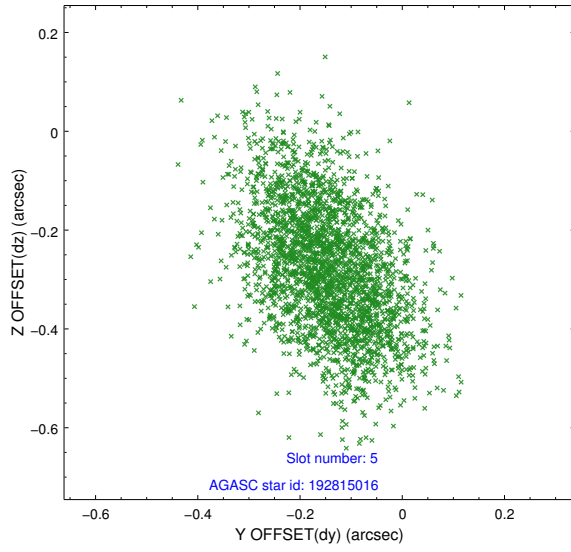
### 2.4.1 Slot 3



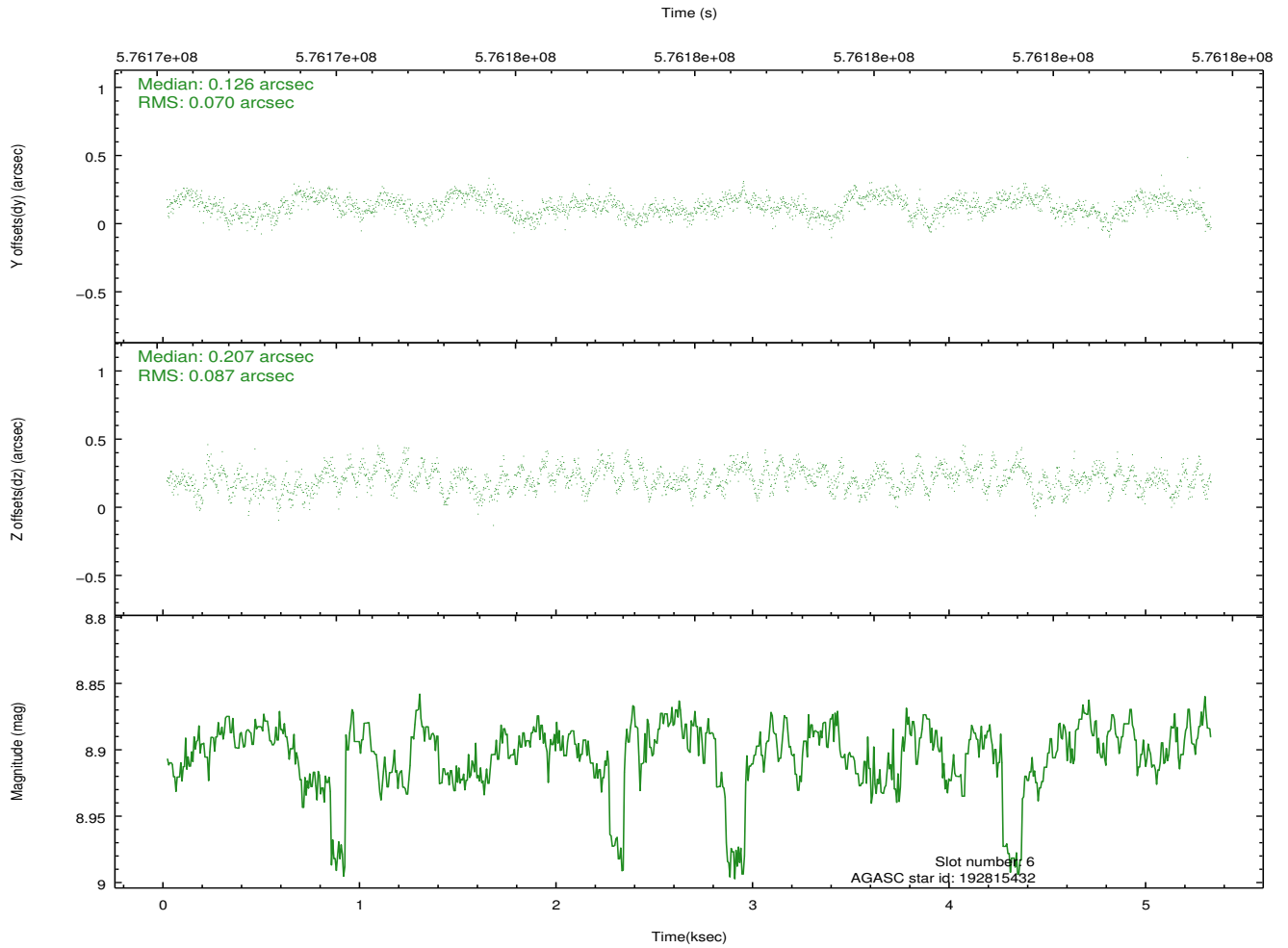
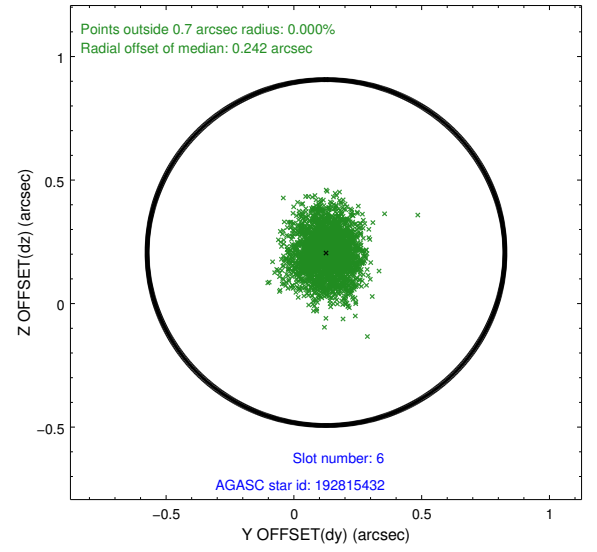
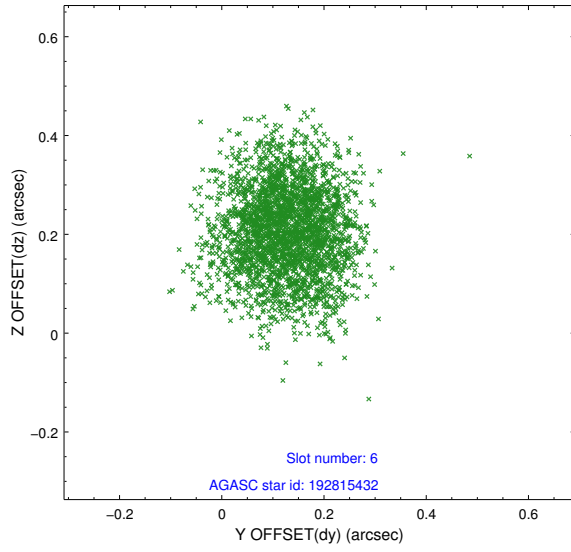
## 2.4.2 Slot 4



### 2.4.3 Slot 5

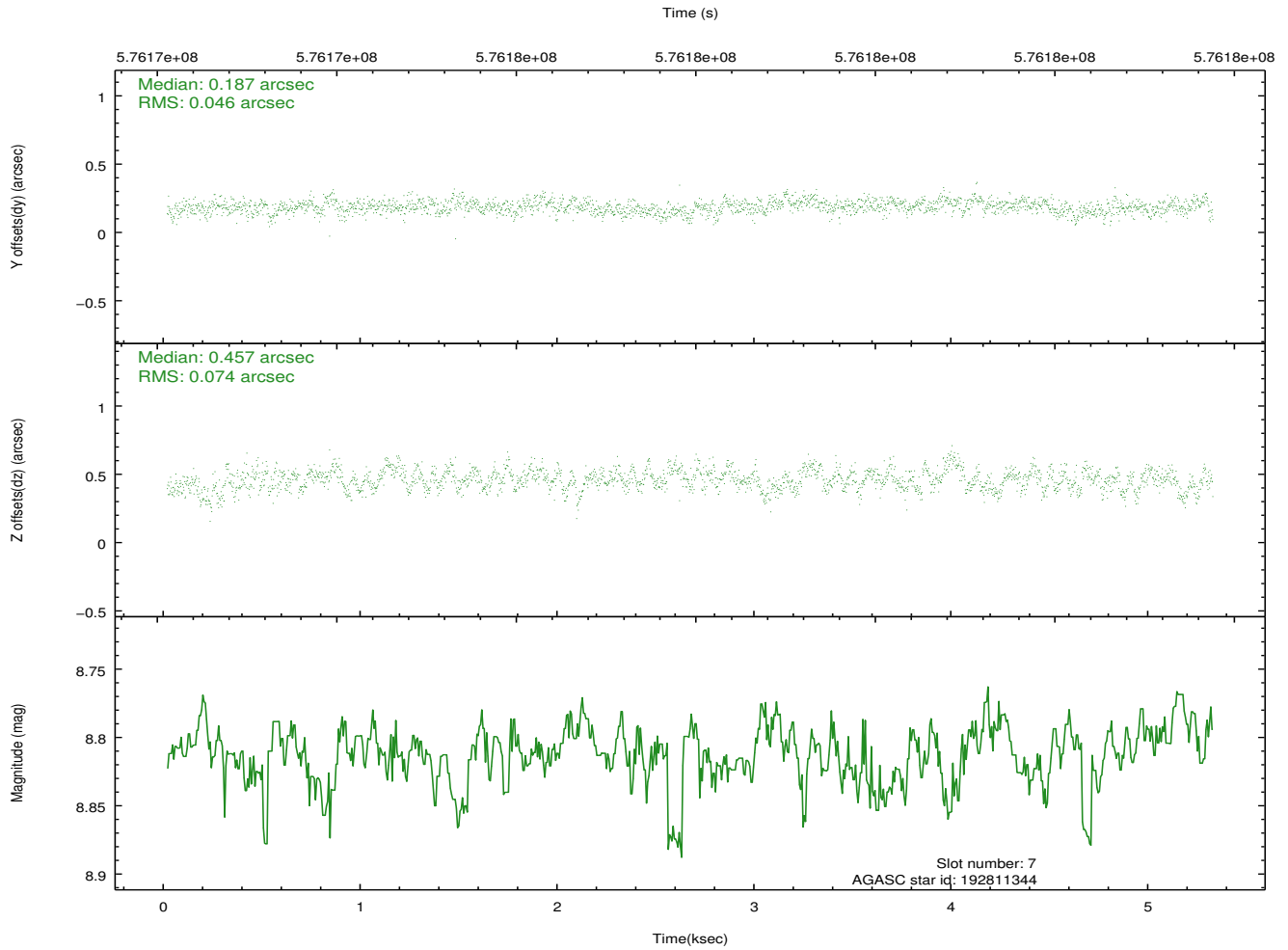
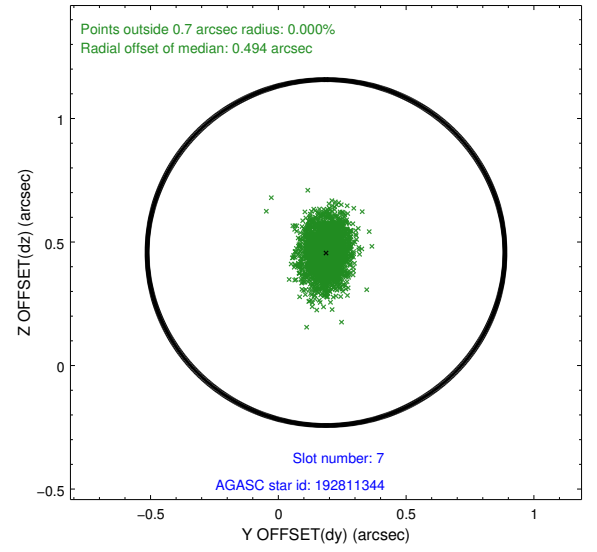
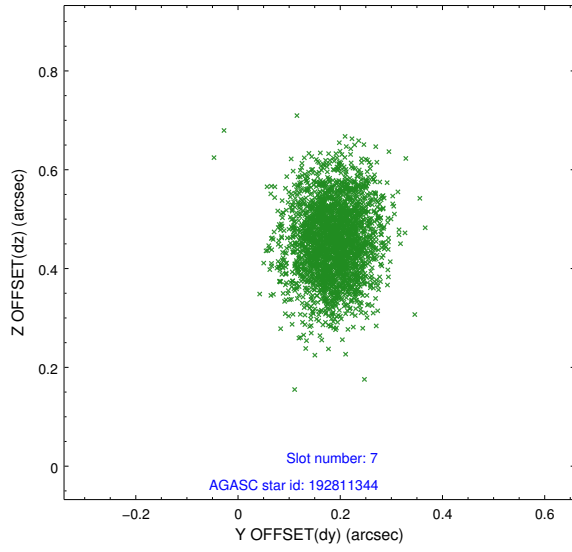


## 2.4.4 Slot 6



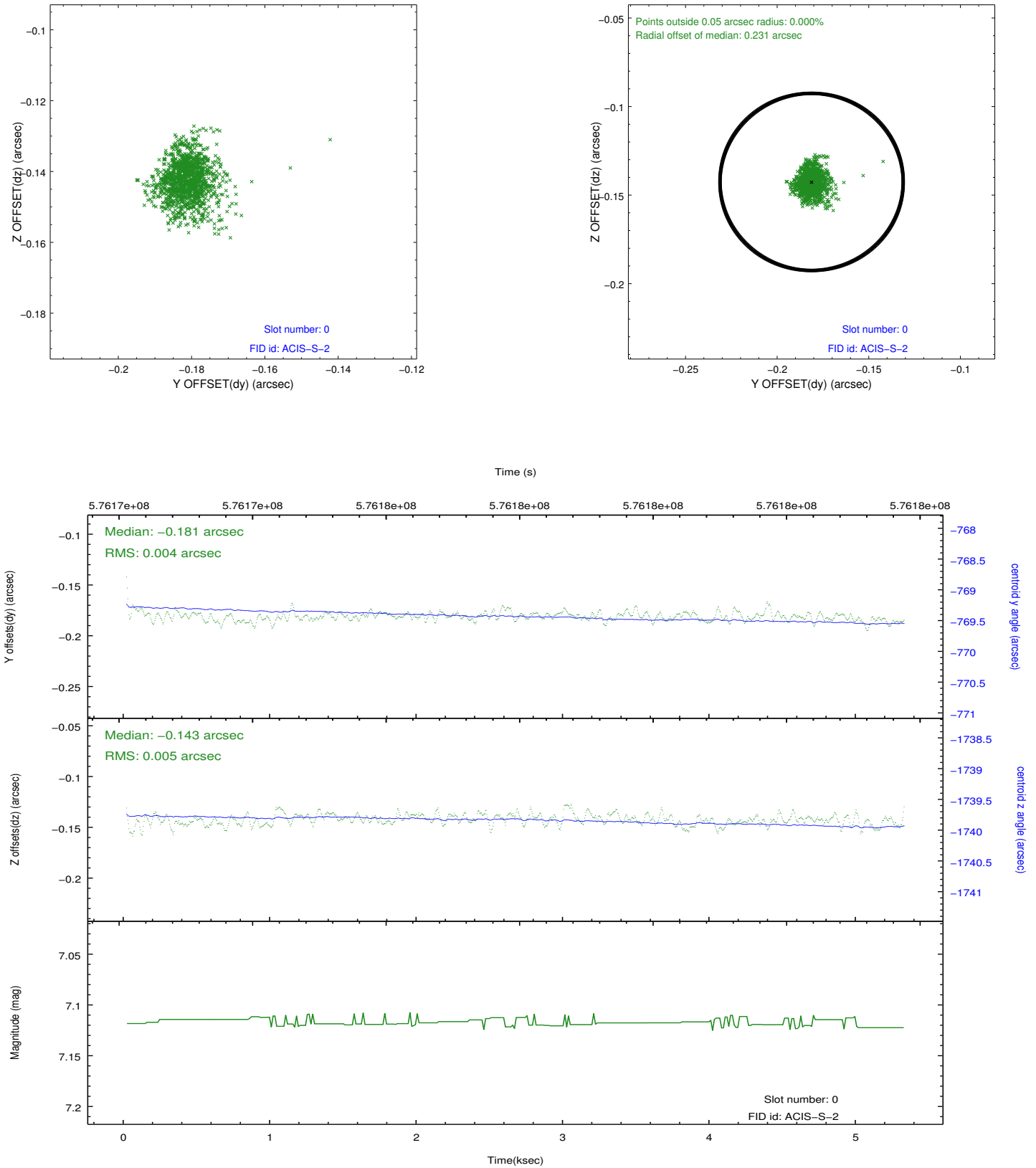


## 2.4.5 Slot 7

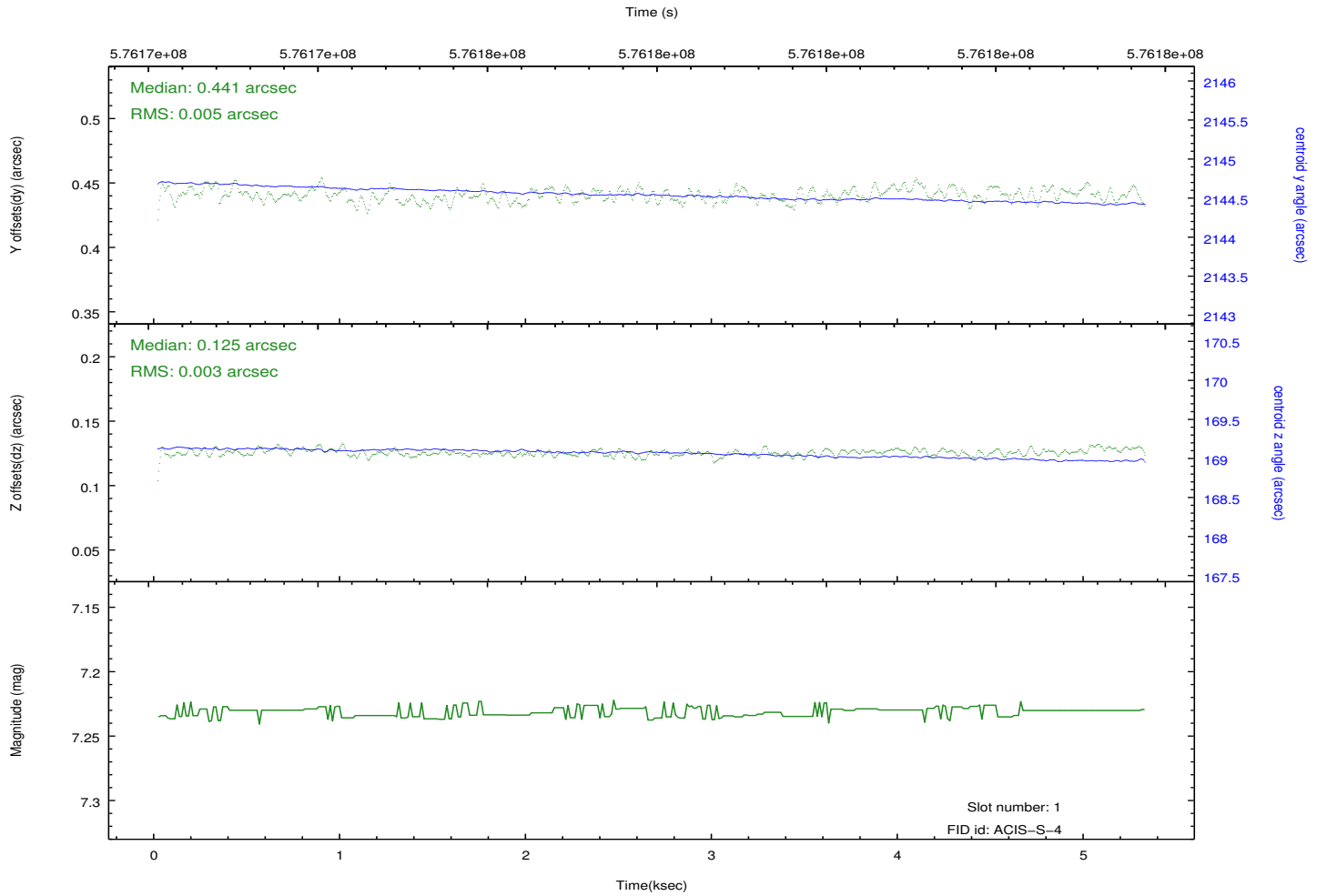
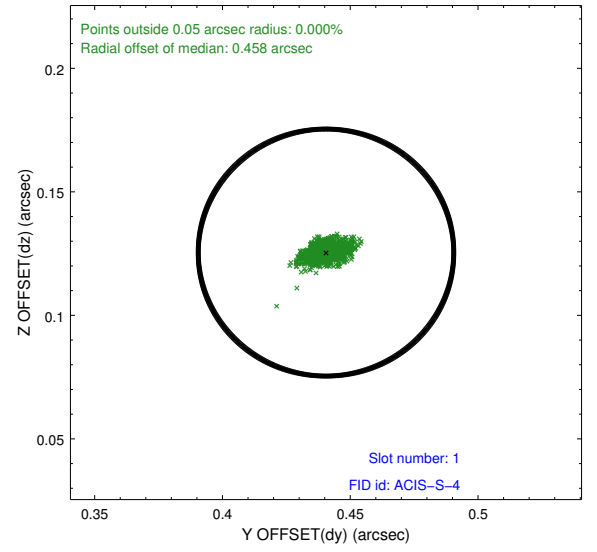
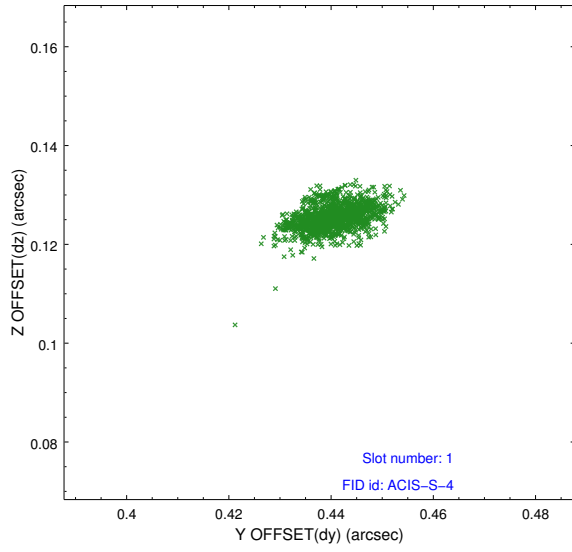


## 2.5 FID Slots

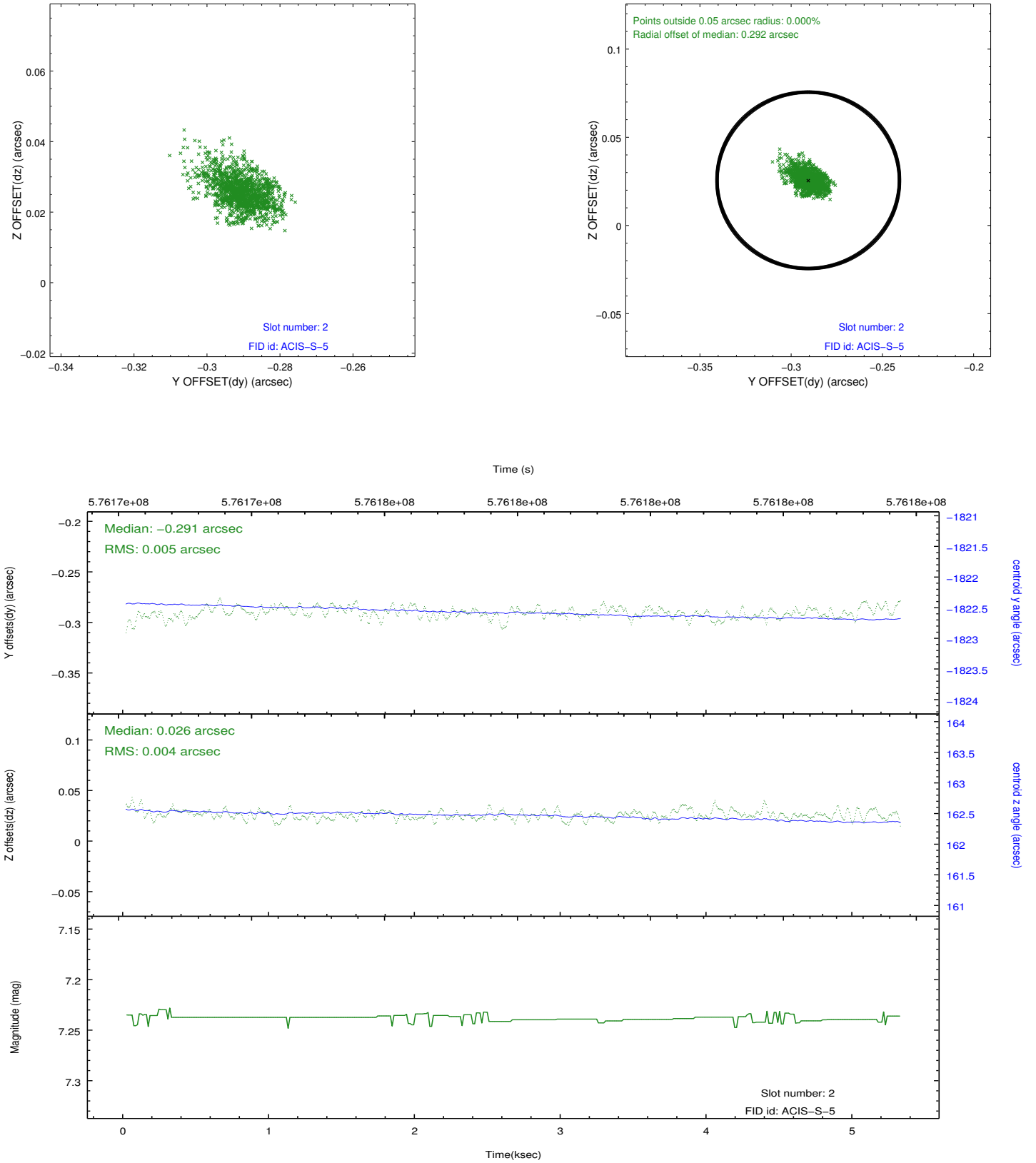
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1119000394344

### A.2 Comments