

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 7911 - L2 Version 2  
Chandra X-Ray Center

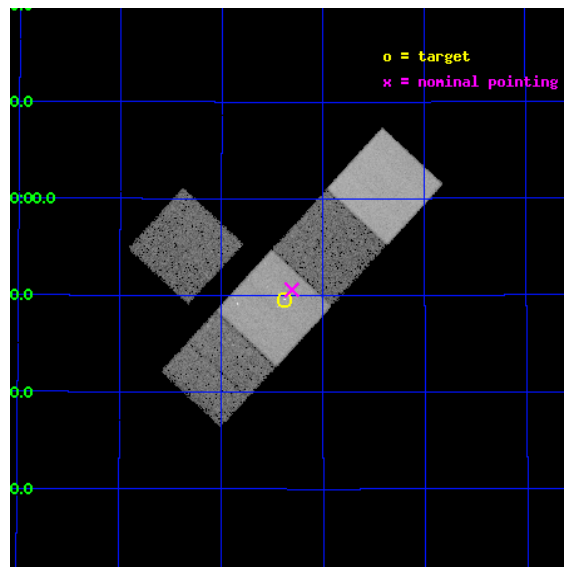
L2 Processing Date : Jun 28 2012

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# 1 Front

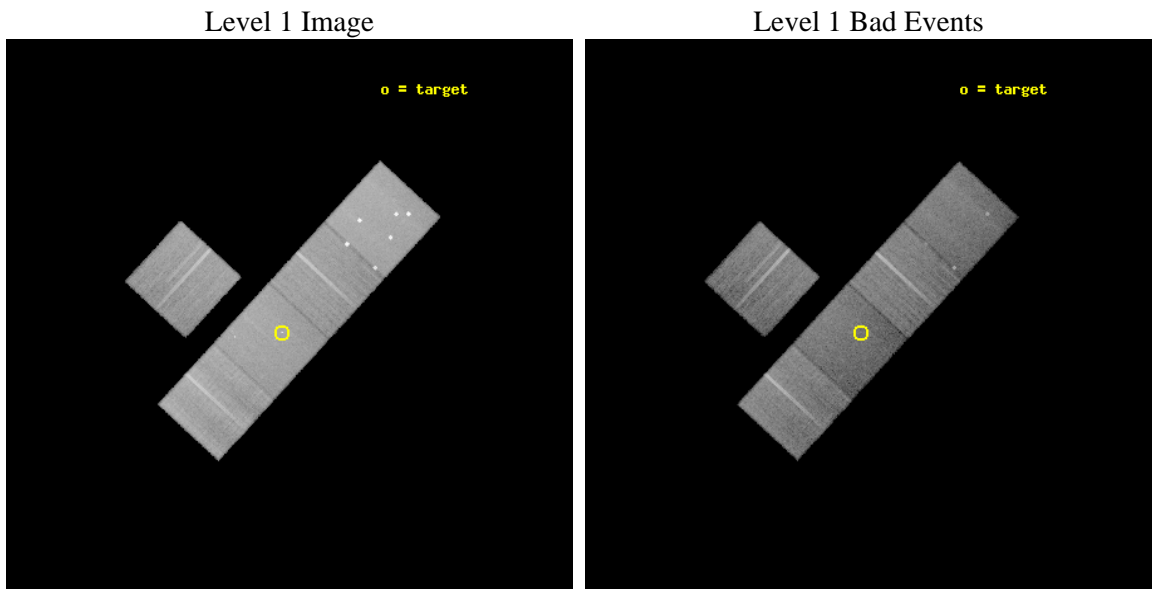
seq_num	800629	Sequence number
obs_id	7911	Observation id
title	A search for clusters around luminous radio-quiet FRI quasars	Prop
observer	Professor Andrew Fabian	Principal investigator
object	7C1040+4449	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.095	Observer's specified target RA [deg]
dec_targ	44.826861	Observer's specified target Dec [deg]
ra_nom	160.07686245922	Nominal RA [deg]
dec_nom	44.843277630077	Nominal Dec [deg]
roll_nom	132.61545565932	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20177.900155187	Sum of GTIs [s]
livetime	19914.261034905	Livetime [s]
ontime3	20174.759134829	Sum of GTIs [s]
ontime5	20177.900155187	Sum of GTIs [s]
ontime6	20177.900155187	Sum of GTIs [s]
ontime7	20177.900155187	Sum of GTIs [s]
ontime8	20168.477094293	Sum of GTIs [s]
l2events	235098	Number of level 2 events



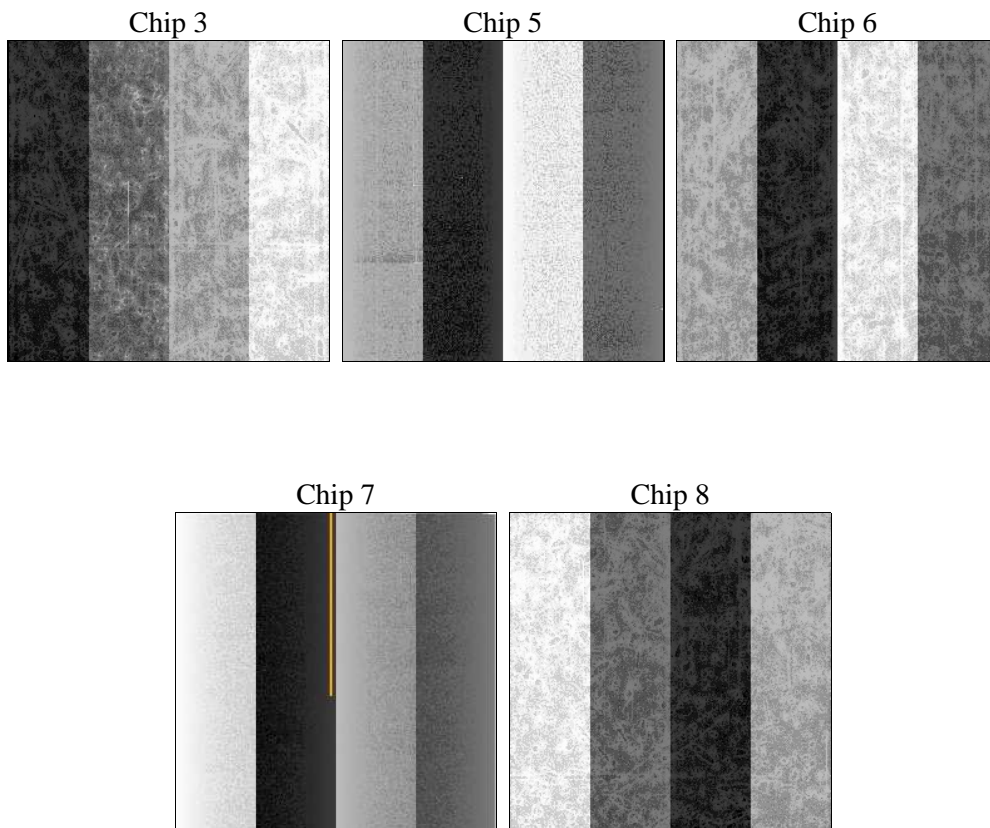
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20177.900155187	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime3	20174.759134829	Sum of GTIs [s]
date	2012-06-28T13:09:31	Date and time of file creation	ontime5	20177.900155187	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20177.900155187	Sum of GTIs [s]
			ontime7	20177.900155187	Sum of GTIs [s]
			ontime8	20168.477094293	Sum of GTIs [s]
			l1events	987651	Number of level 1 events

### 2.1.4 Events

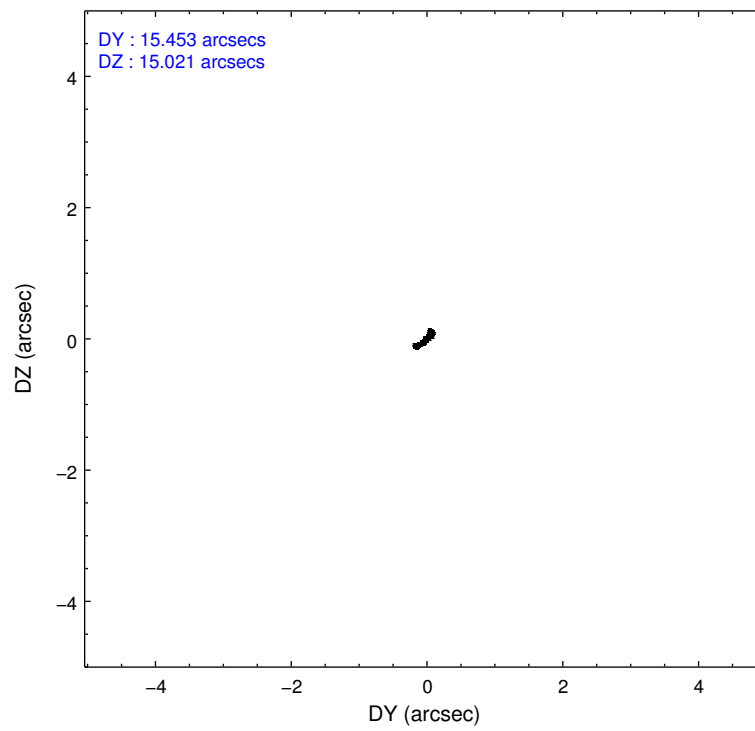
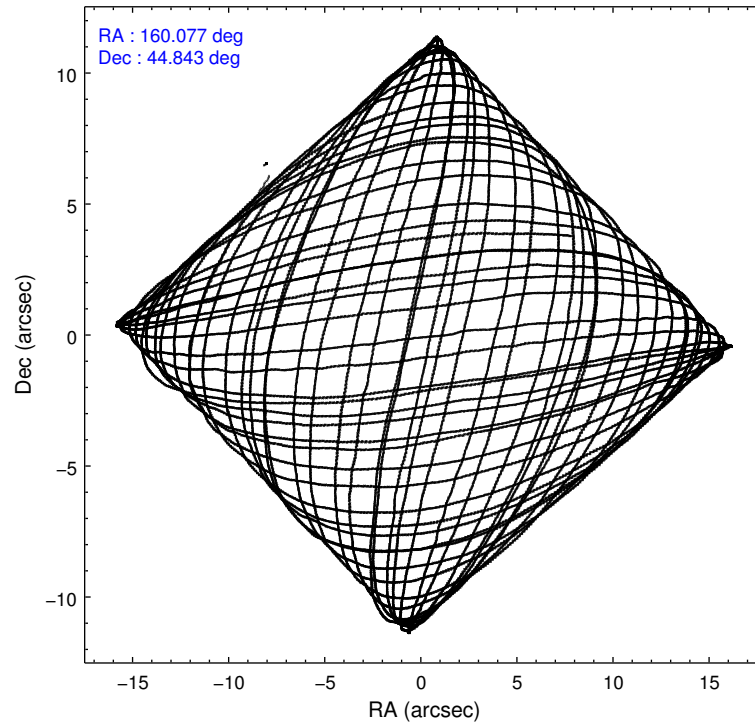
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	160423	253244	174318	188661	211005
rejected events	144909	118570	151600	103330	159959
rejected %	90%	46%	86%	54%	75%

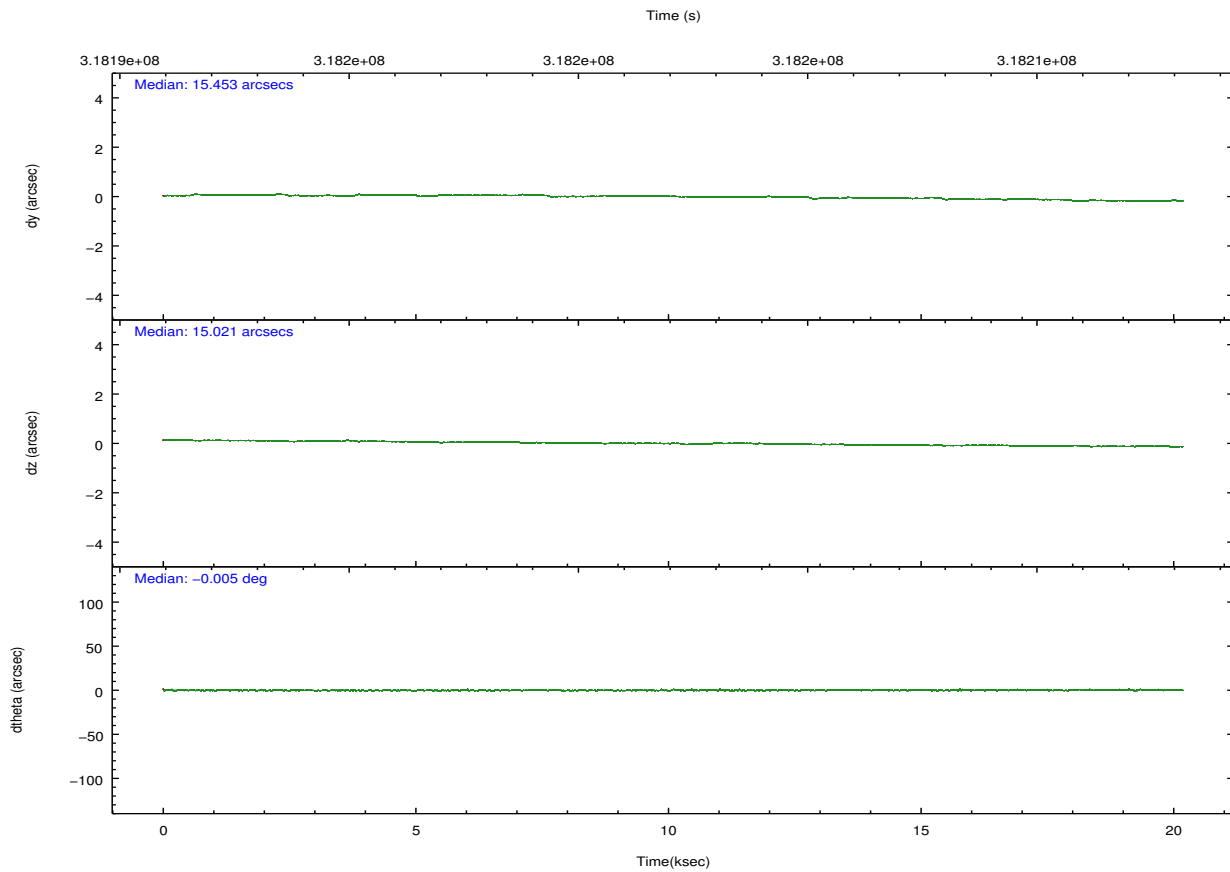
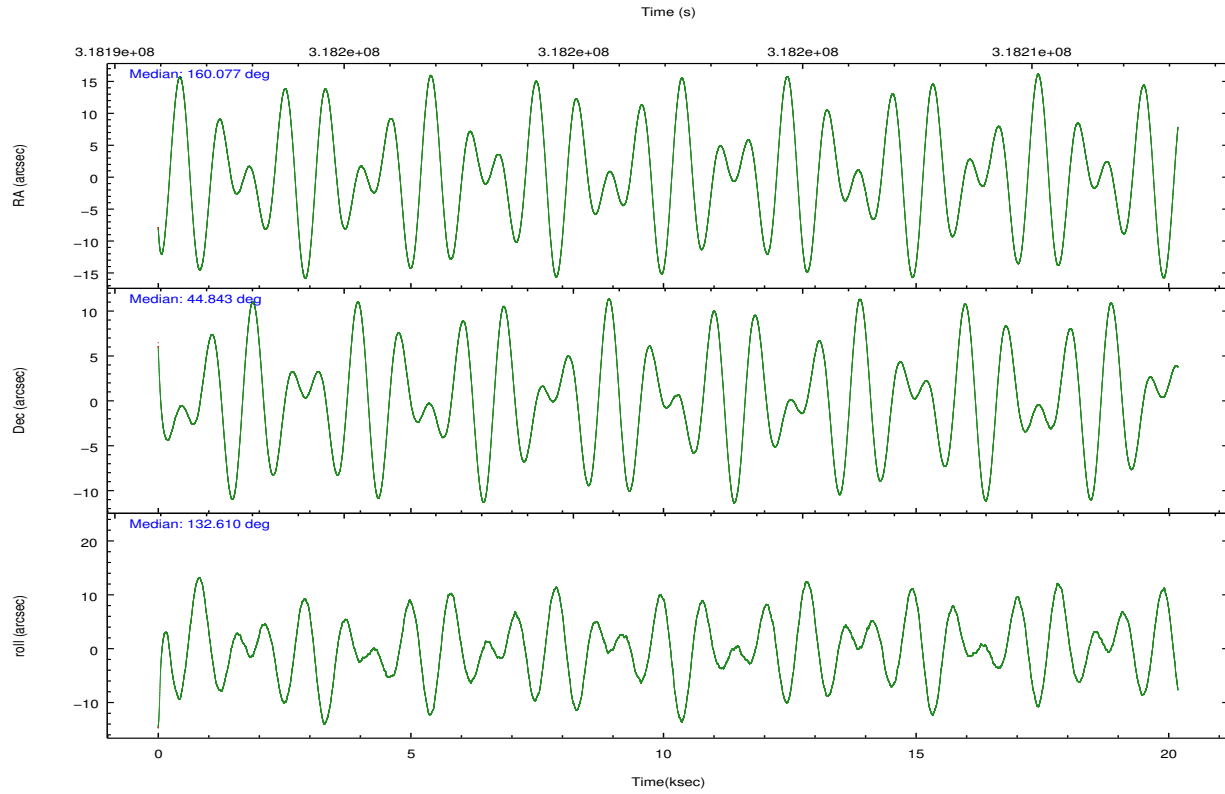
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5432	26508	5719	8386	14737
	3%	10%	3%	4%	6%
grade 1 events	81	1250	84	236	175
	0%	0%	0%	0%	0%
grade 2 events	3387	38438	9635	17264	11697
	2%	15%	5%	9%	5%
grade 3 events	1799	4762	1900	7491	5692
	1%	1%	1%	3%	2%
grade 4 events	1787	4816	1835	7717	5235
	1%	1%	1%	4%	2%
grade 5 events	6656	17867	6735	19425	9809
	4%	7%	3%	10%	4%
grade 6 events	3167	60633	3711	44798	13826
	1%	23%	2%	23%	6%
grade 7 events	138114	98970	144699	83344	149834
	86%	39%	83%	44%	71%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	160.113840	160.0768624592244	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.835460	44.84327763007661	Alternating exposures requested	N	N
[deg] Pointing Roll	132.432752	132.6154556593244	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	318192151.184000	318191113.6567			
Observation start date	2008-01-31T18:41:26	2008-01-31T18:25:13			
[s] Observation end time (MET)	318212151.184000	318212699.13275			
Observation end date	2008-02-01T00:14:46	2008-02-01T00:24:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



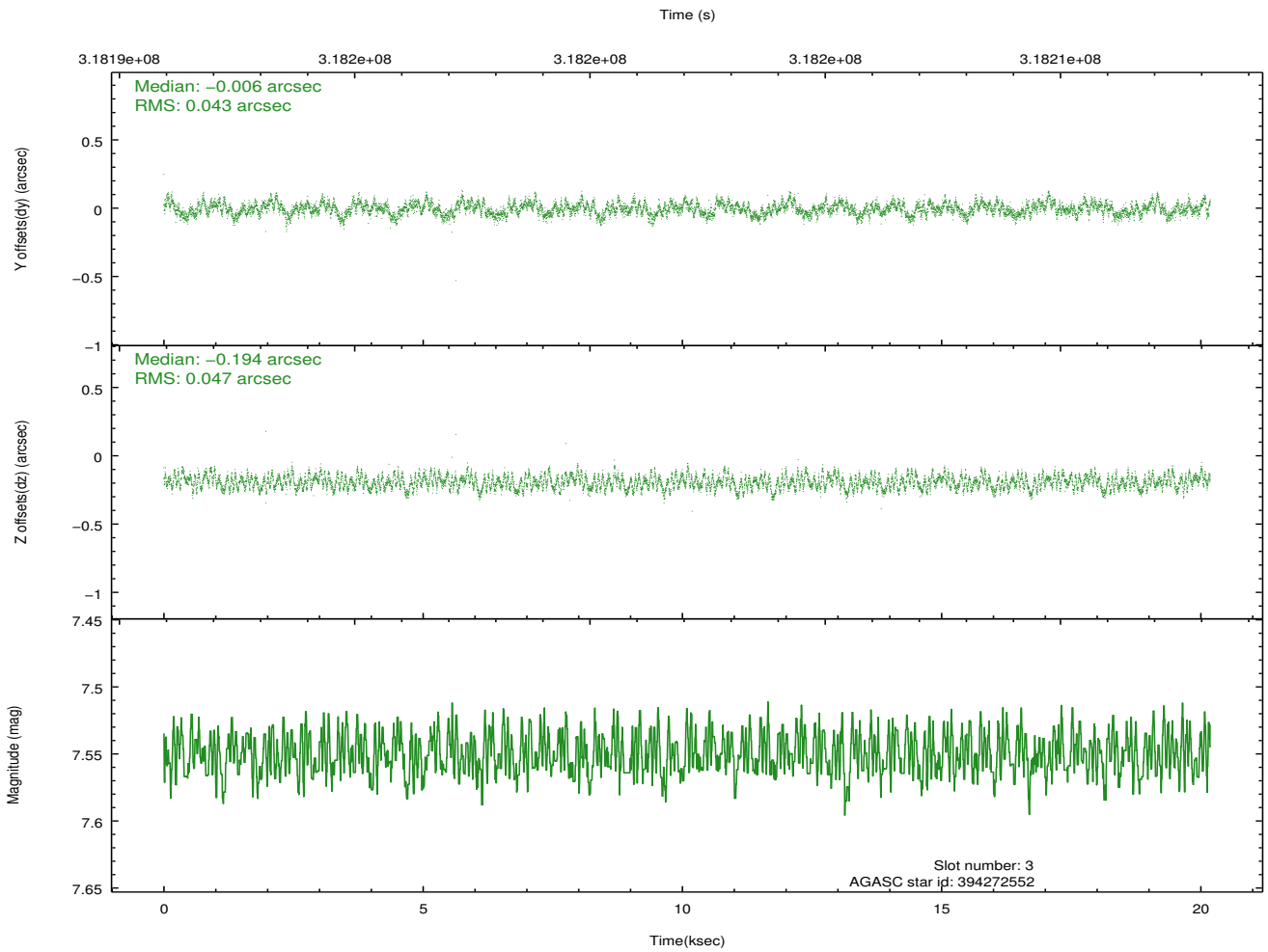
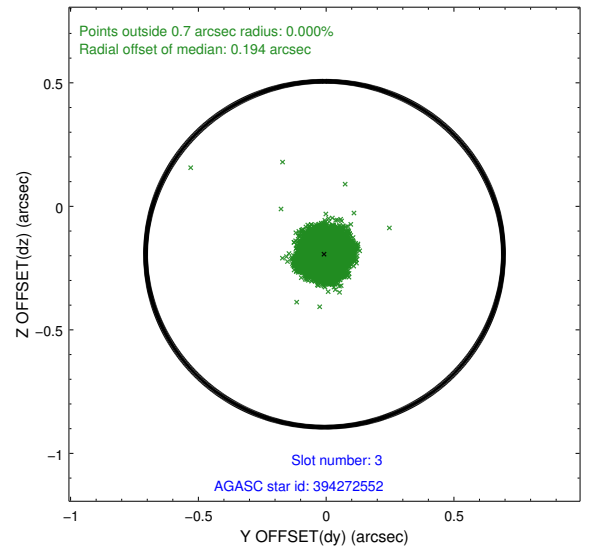
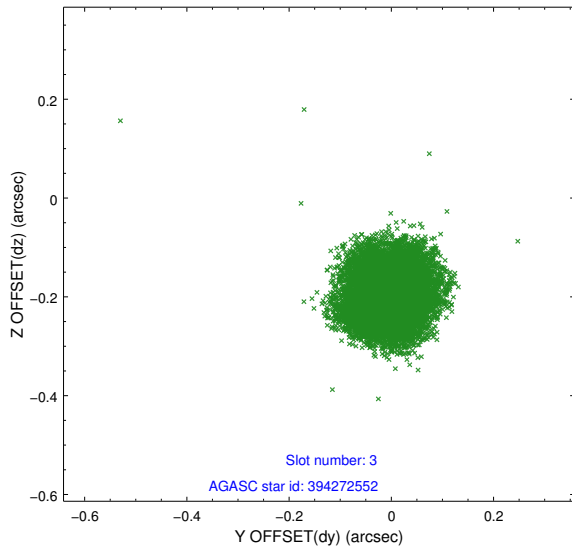


### Slot Statistics

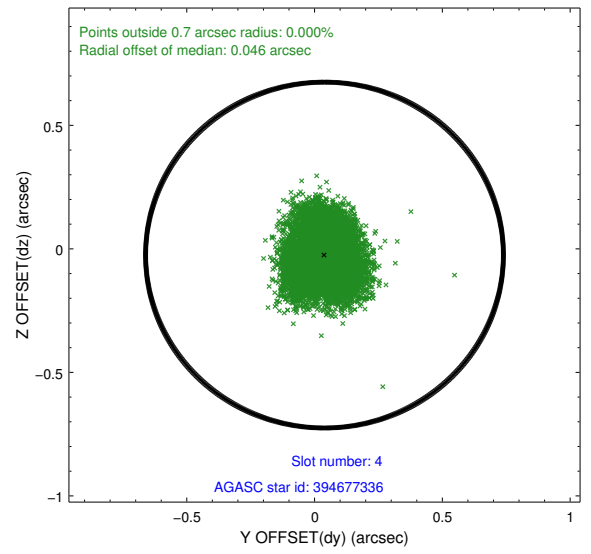
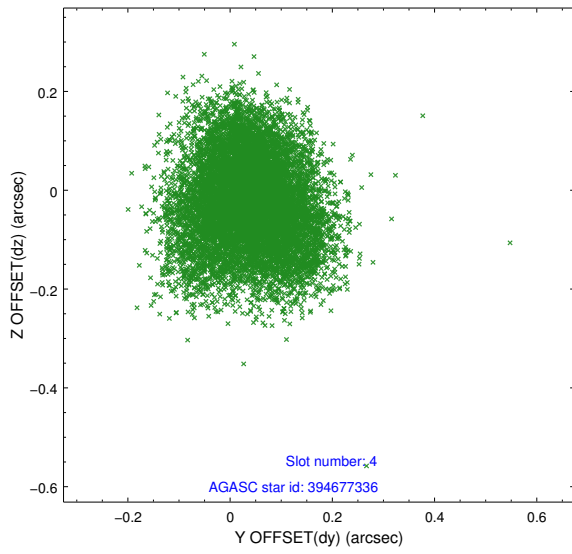
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4922	-0.109	-0.034	0.007	0.012	0.000000	0.000000	-768.50	-1736.44
1	FID	ACIS-S-4	7.20	4924	0.201	0.062	0.006	0.012	0.000000	0.000000	2144.98	171.97
2	FID	ACIS-S-5	7.23	4923	-0.124	-0.019	0.007	0.012	0.000000	0.000000	-1821.14	165.74
3	GUIDE	394272552	7.55	9845	-0.006	-0.194	0.069	0.106	159.745273	44.847844	669.50	662.86
4	GUIDE	394677336	9.30	9839	0.039	-0.025	0.123	0.194	160.856363	44.950515	-963.72	-1681.40
5	GUIDE	451152928	8.99	9834	-0.026	-0.084	0.098	0.152	159.900505	45.372733	1792.46	-907.22
6	GUIDE	451154488	8.89	9838	-0.044	0.167	0.098	0.160	160.255183	45.512906	1560.37	-1908.53
7	GUIDE	451154728	9.60	9835	0.035	0.138	0.130	0.210	160.830985	45.185227	-291.71	-2197.90

## 2.4 Star Slots

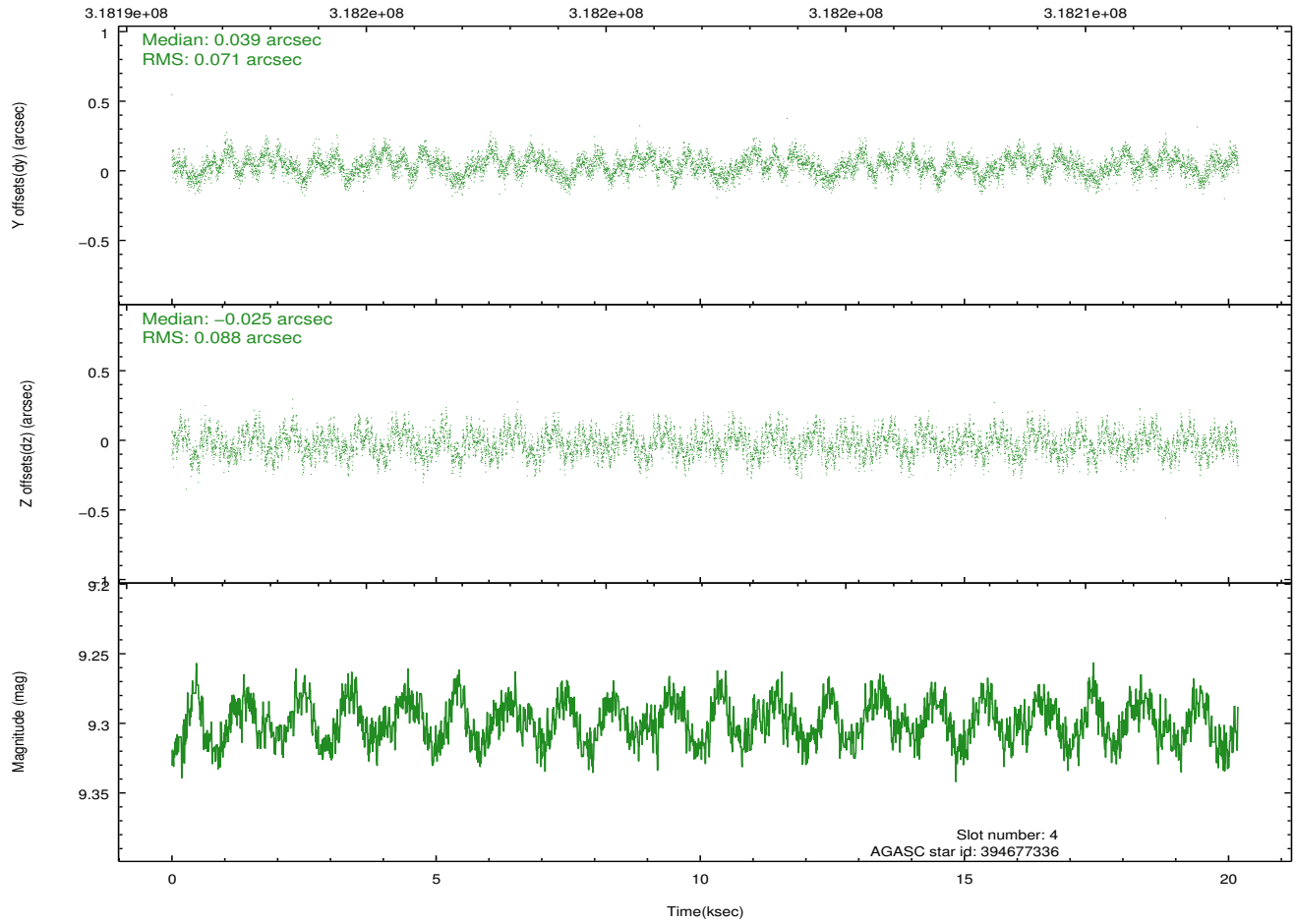
### 2.4.1 Slot 3



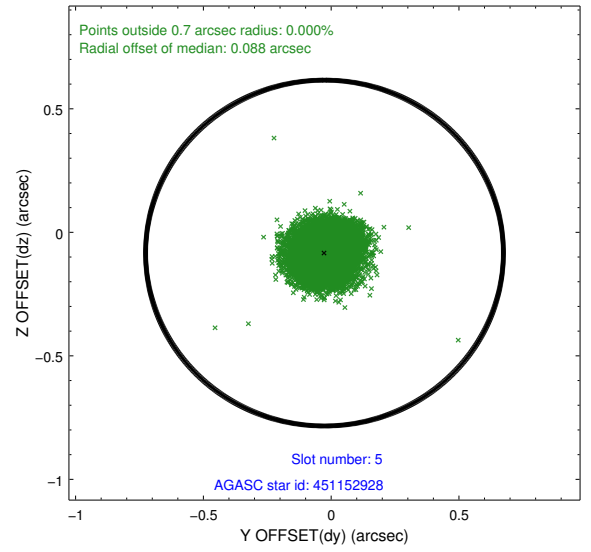
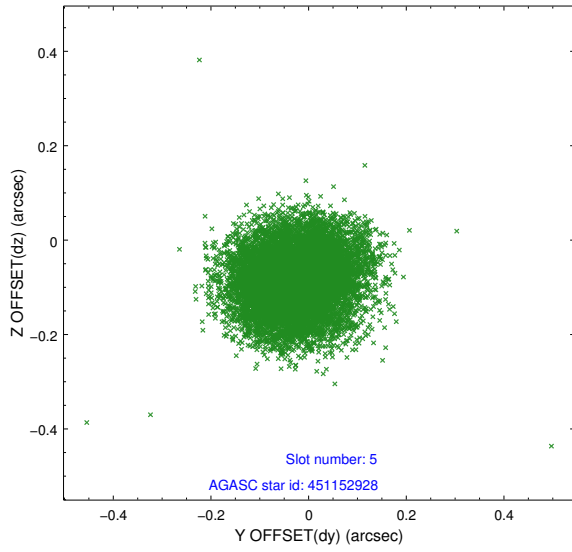
## 2.4.2 Slot 4



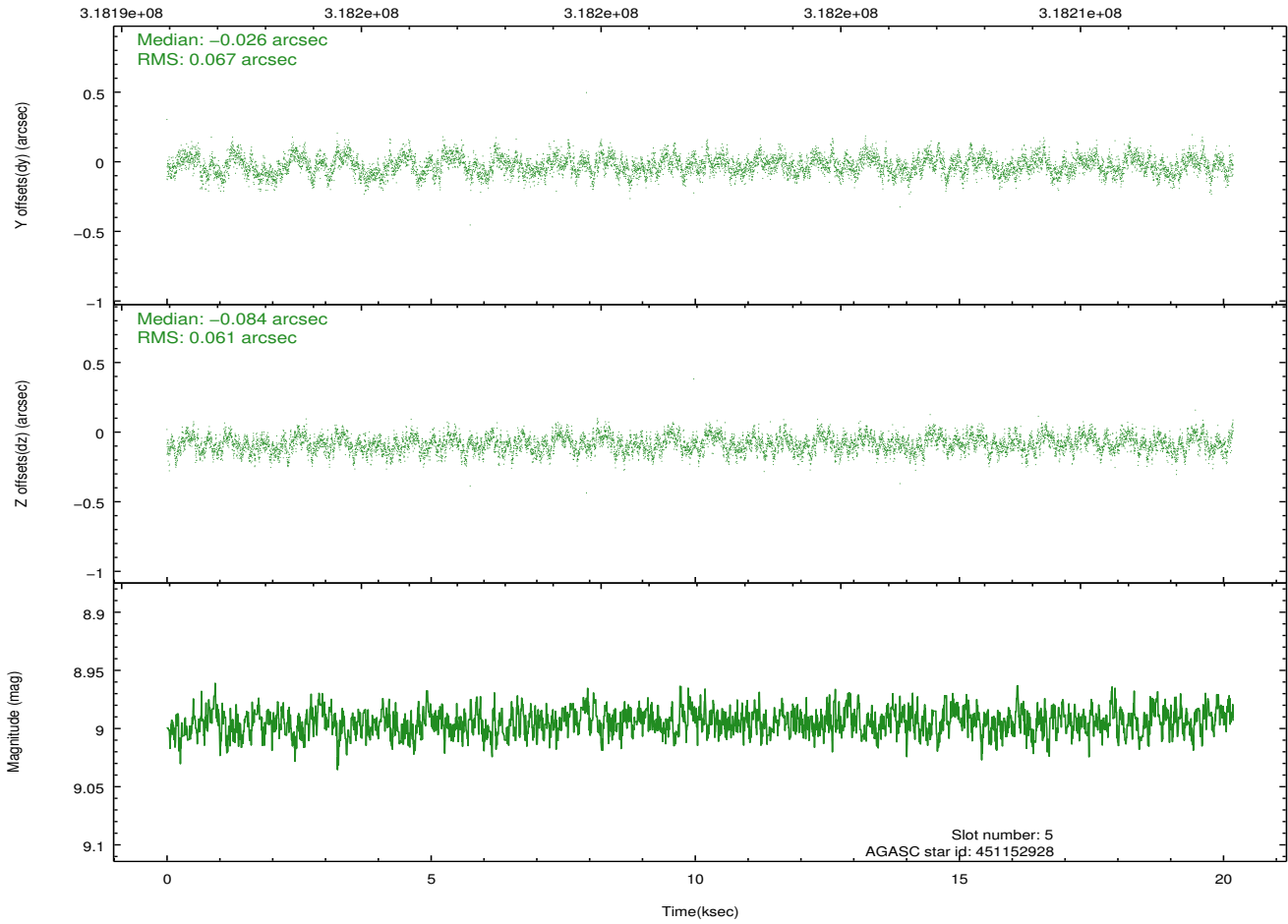
Time (s)



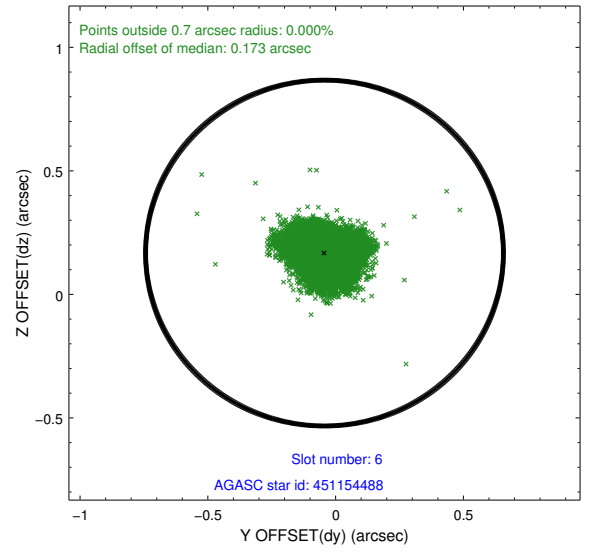
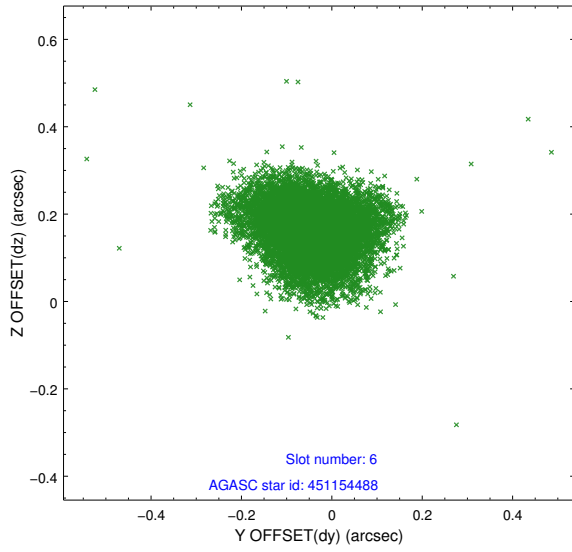
### 2.4.3 Slot 5



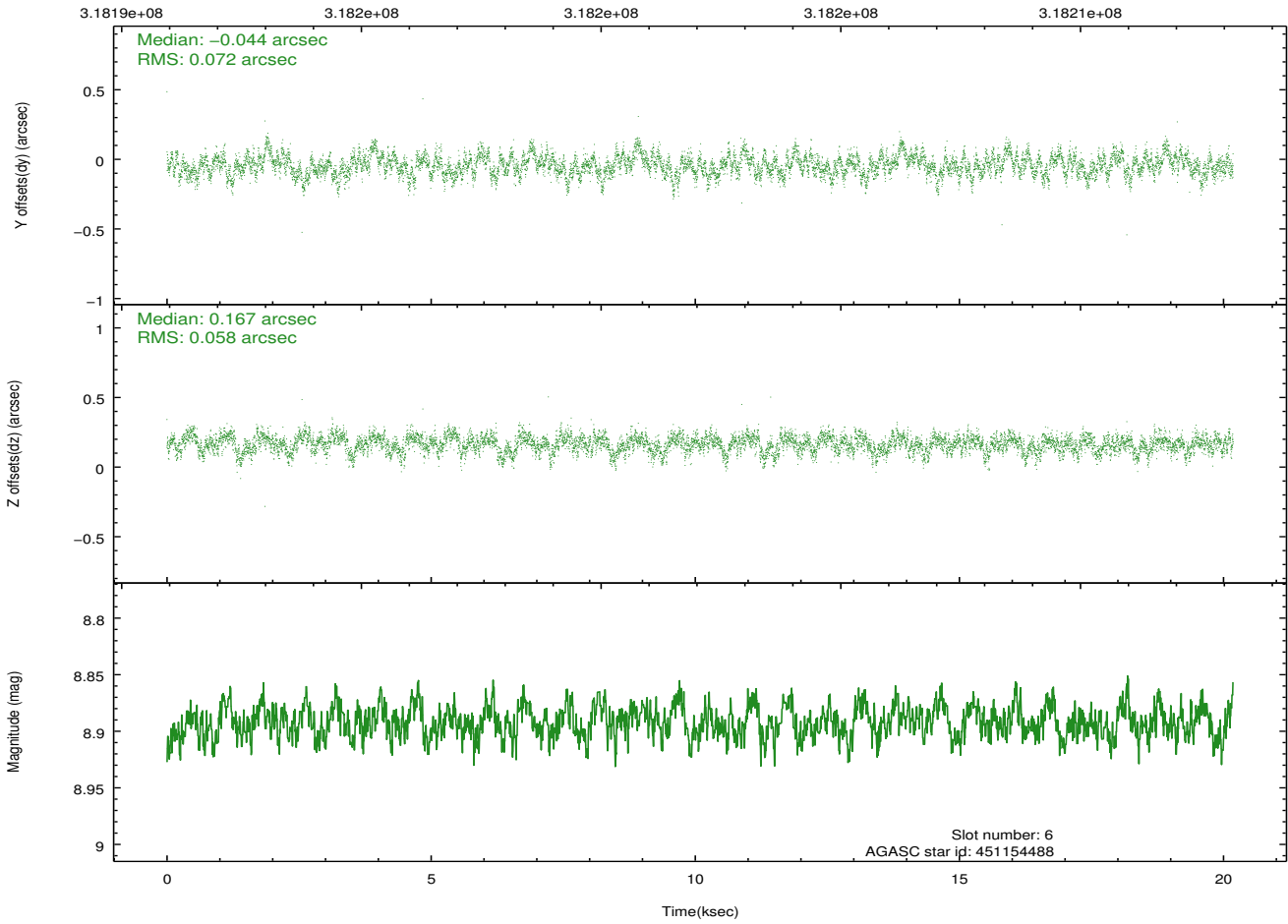
Time (s)



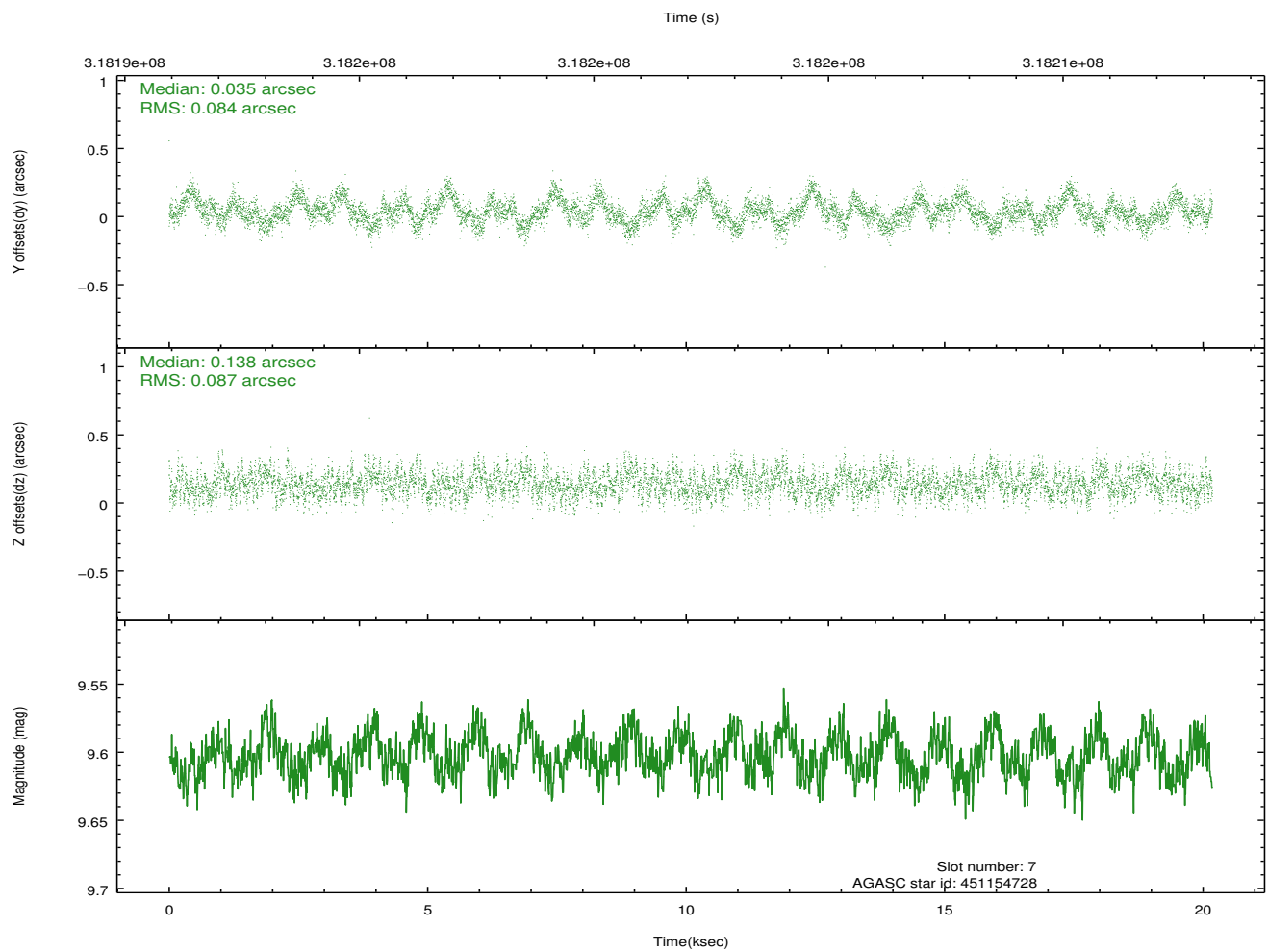
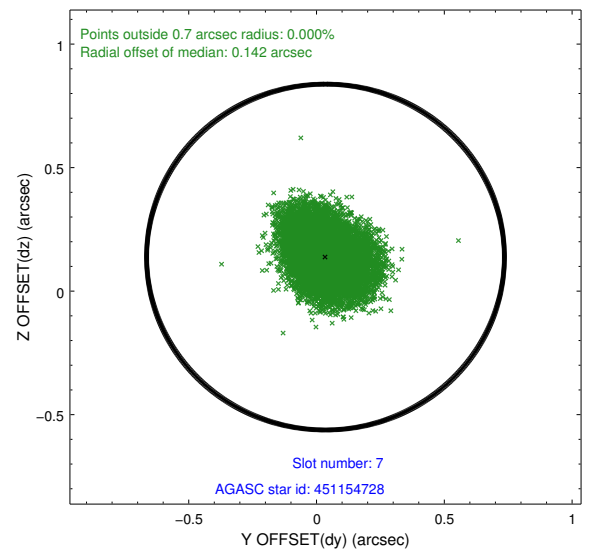
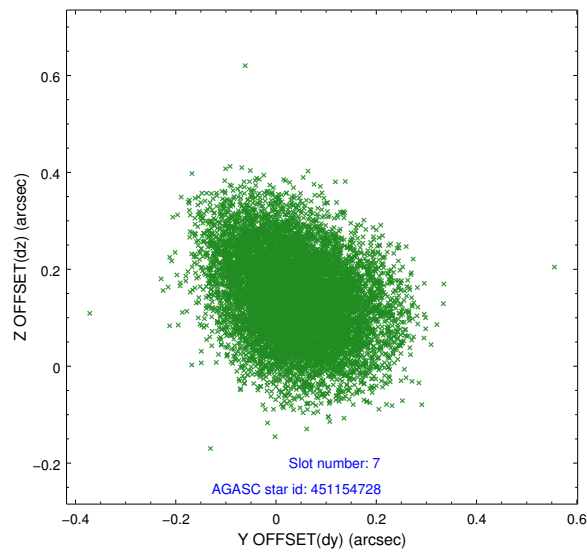
### 2.4.4 Slot 6



Time (s)

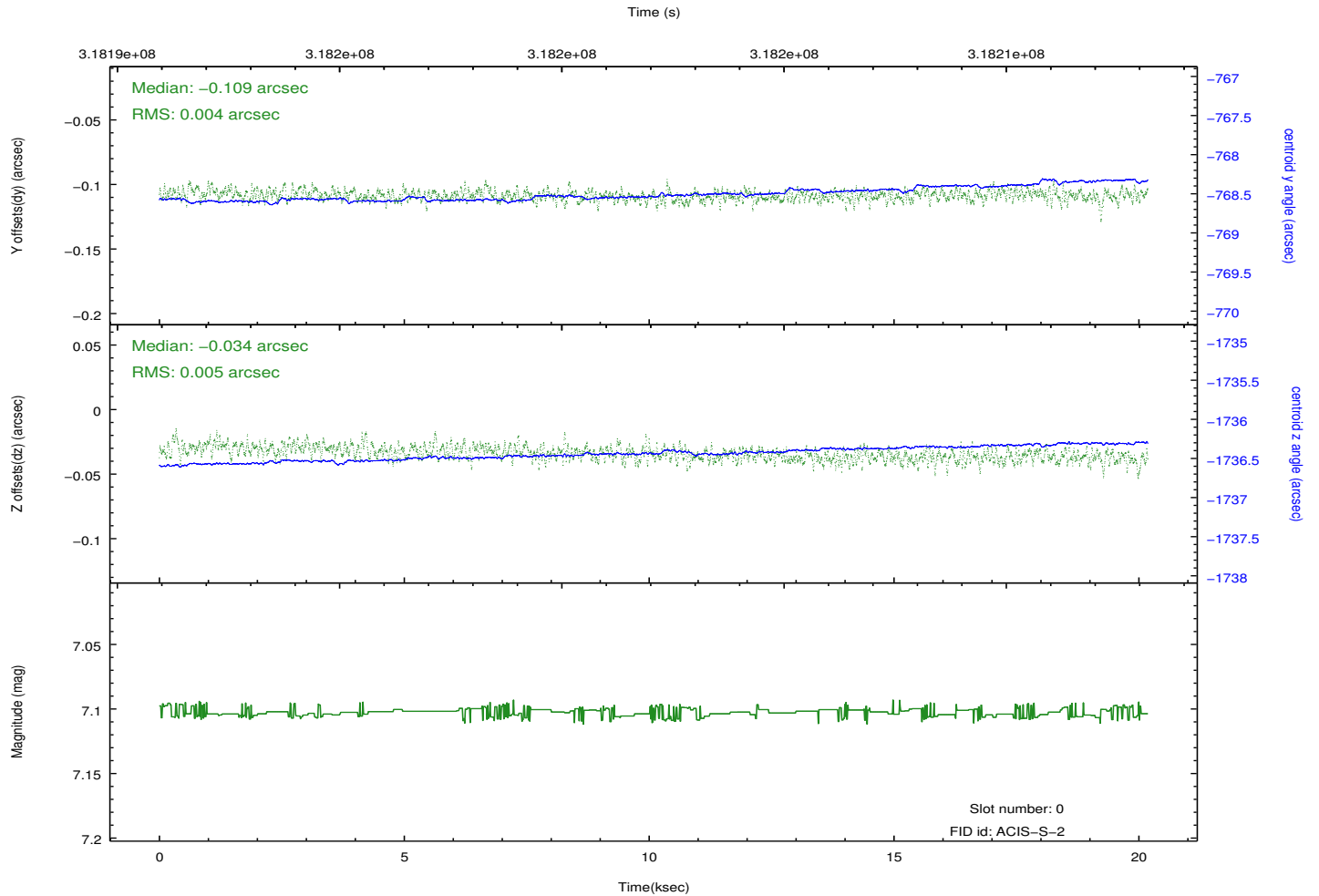
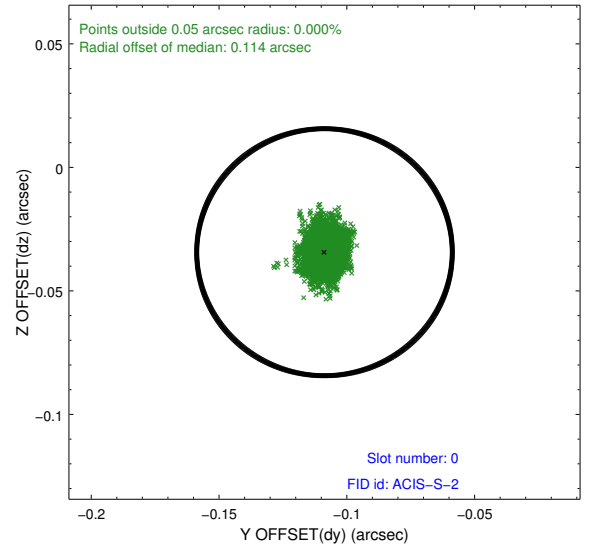
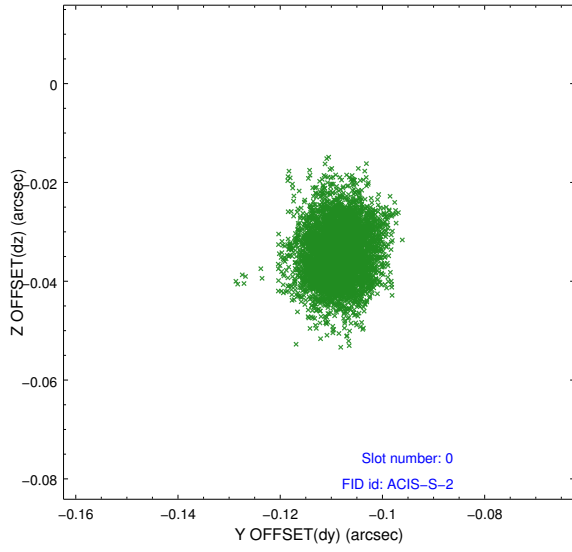


## 2.4.5 Slot 7

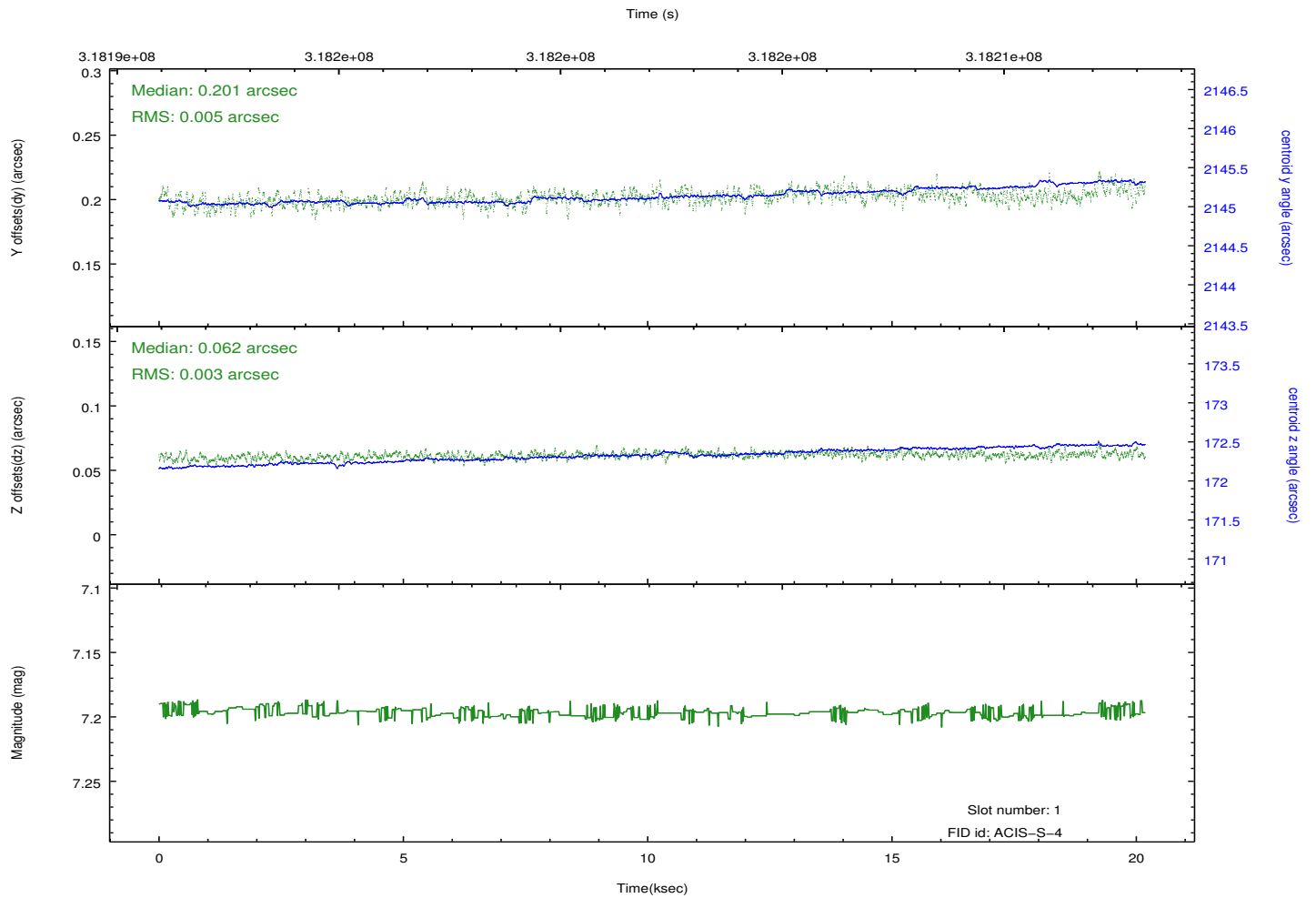
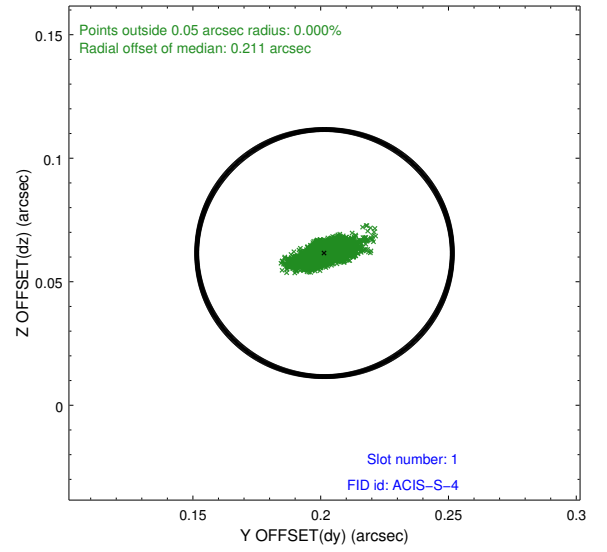
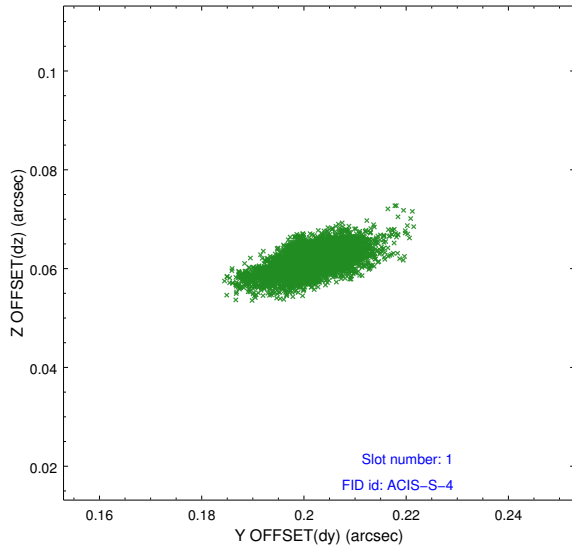


## 2.5 FID Slots

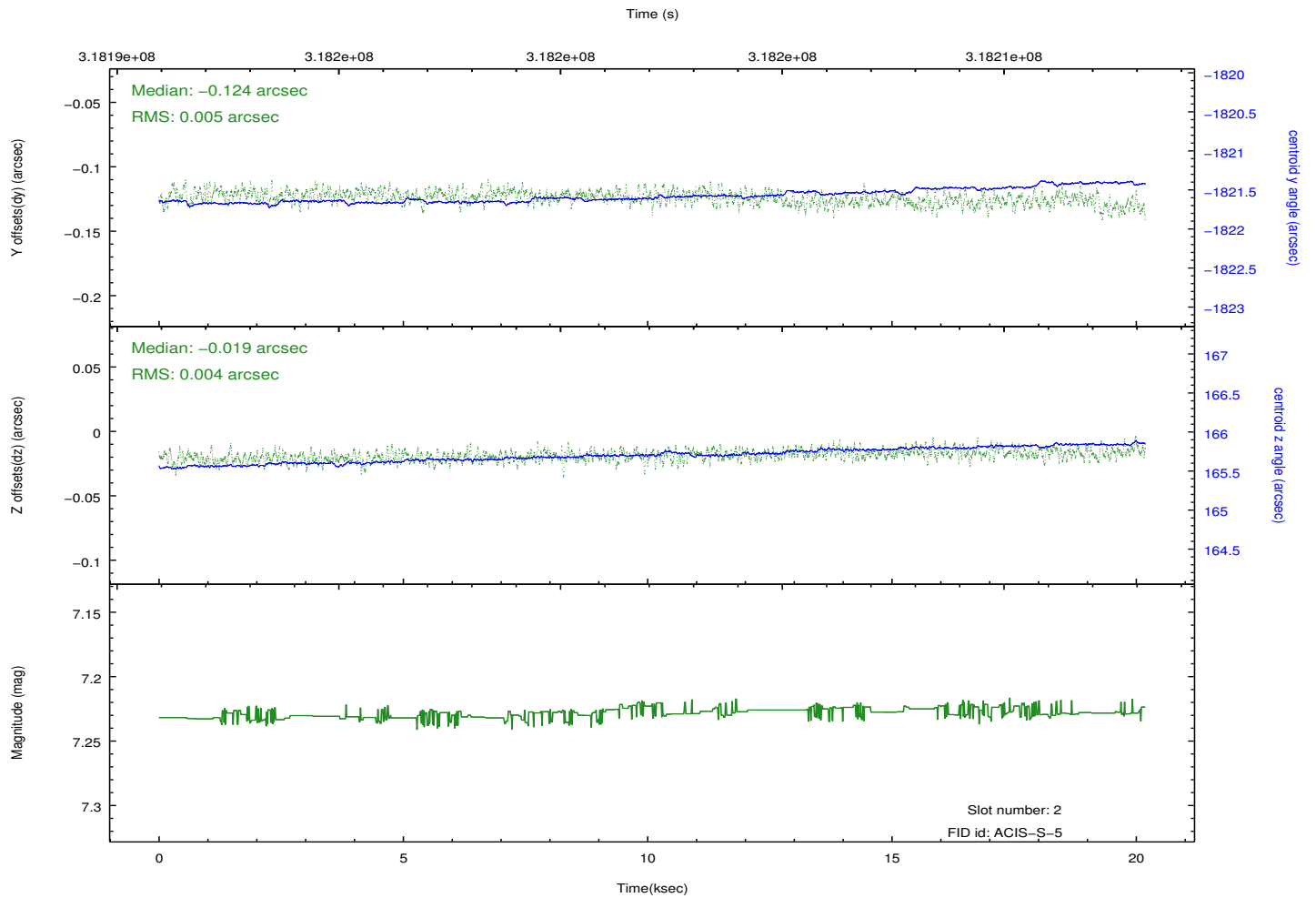
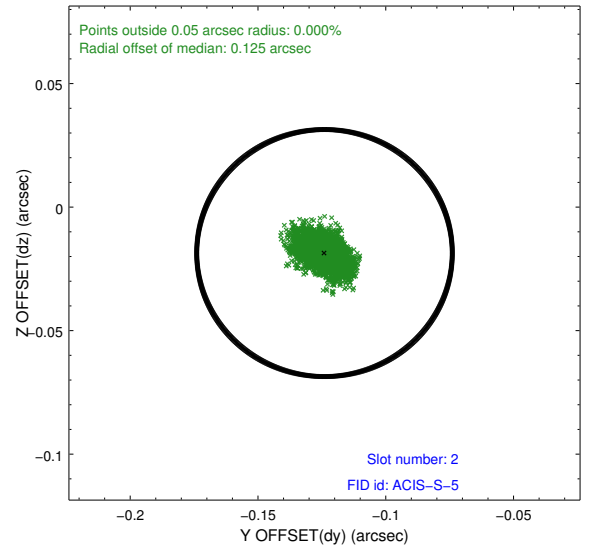
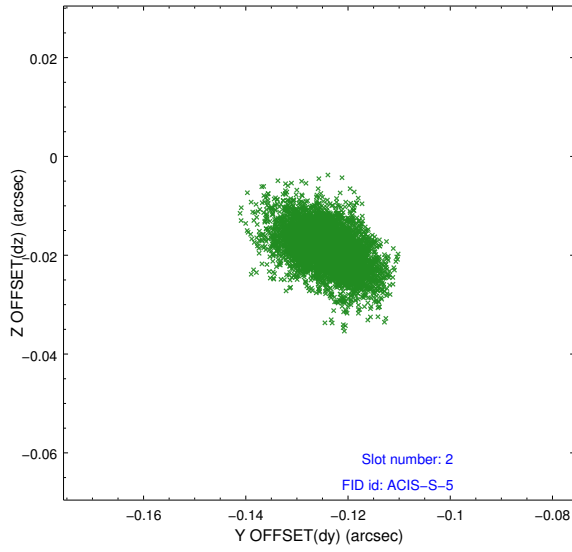
### 2.5.1 Slot 0



## 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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1779001

### A.2 Comments