

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1564 - L2 Version 3  
Chandra X-Ray Center

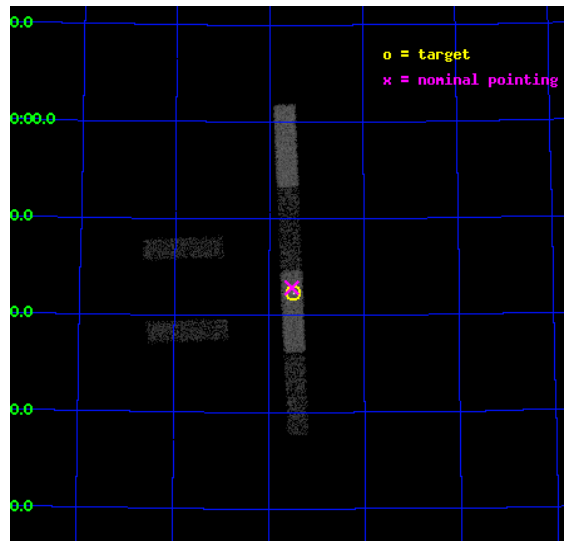
L2 Processing Date : Sep 26 2012

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# 1 Front

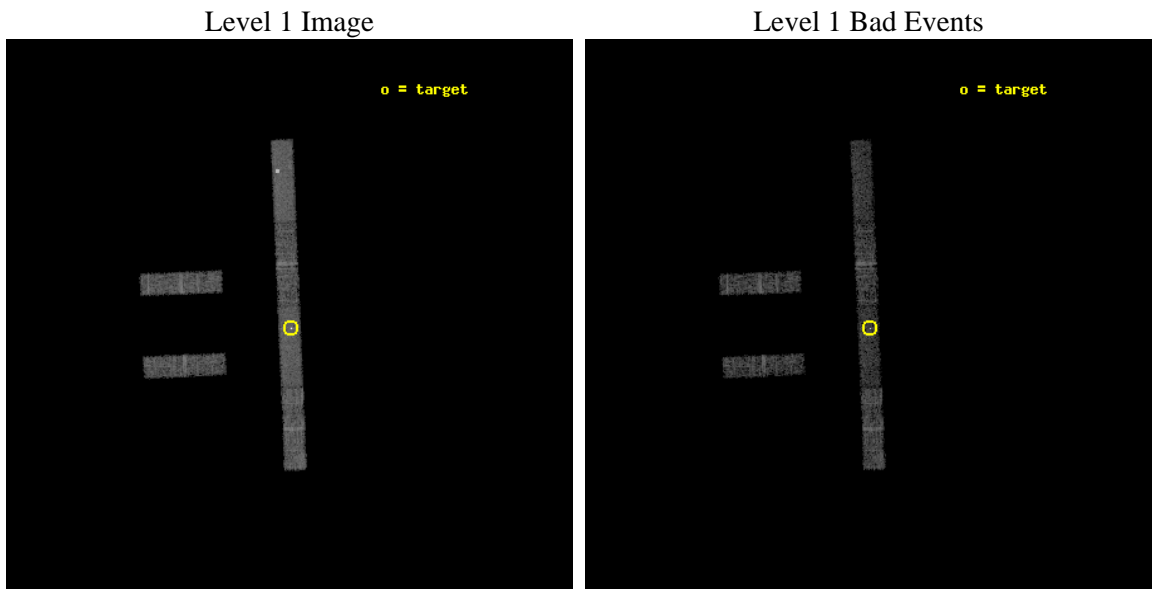
seq_num	600121	Sequence number
obs_id	1564	Observation id
title	CHANDRA OBSERVATIONS OF THE EXTRANUCLEAR SOURCE IN UGC 4305	Propos
observer	Dr. Stephen Murray	Principal investigator
object	UGC 4305	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	124.874583	Observer's specified target RA [deg]
dec_targ	70.705	Observer's specified target Dec [deg]
ra_nom	124.88095142523	Nominal RA [deg]
dec_nom	70.714458417163	Nominal Dec [deg]
roll_nom	87.566861119732	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5336.0999710858	Sum of GTIs [s]
livetime	5144.1754611533	Livetime [s]
ontime2	5336.0999710858	Sum of GTIs [s]
ontime3	5336.0999710858	Sum of GTIs [s]
ontime5	5336.0999710858	Sum of GTIs [s]
ontime6	5336.0999710858	Sum of GTIs [s]
ontime7	5336.0999710858	Sum of GTIs [s]
ontime8	5336.0999710858	Sum of GTIs [s]
l2events	19963	Number of level 2 events



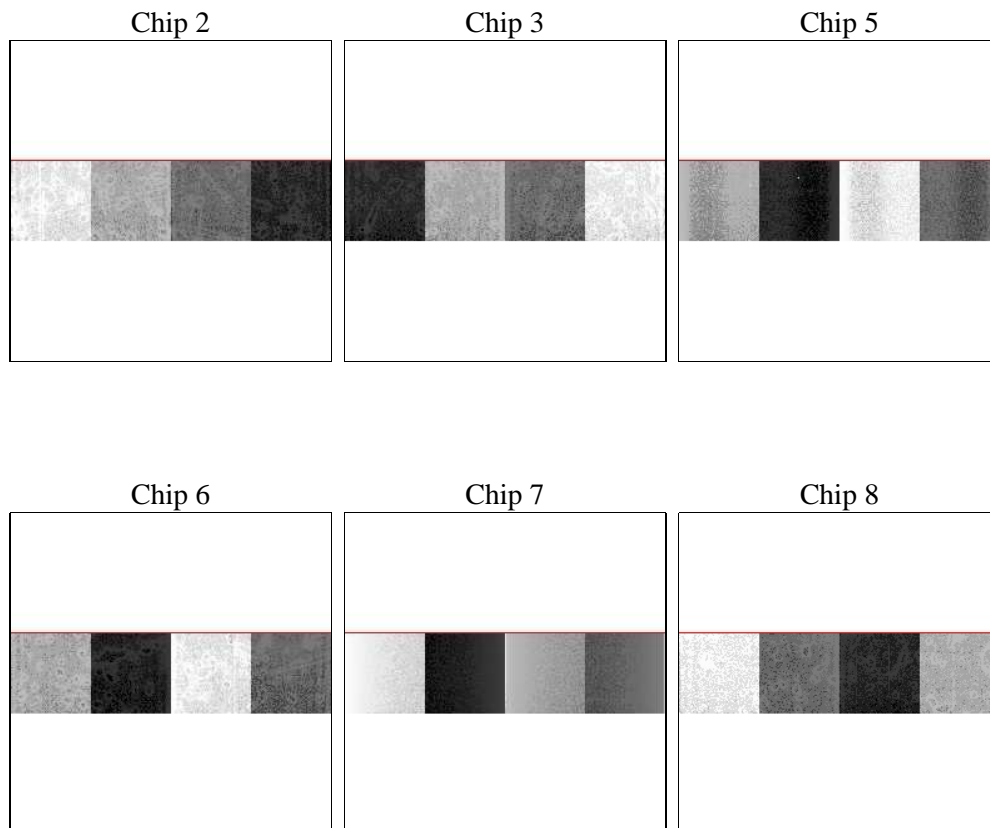
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	5336.0999710858	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	5336.0999710858	Sum of GTIs [s]
date	2012-09-26T02:53:04	Date and time of file creation	ontime3	5336.0999710858	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5336.0999710858	Sum of GTIs [s]
			ontime6	5336.0999710858	Sum of GTIs [s]
			ontime7	5336.0999710858	Sum of GTIs [s]
			ontime8	5336.0999710858	Sum of GTIs [s]
			l1events	82275	Number of level 1 events

### 2.1.4 Events

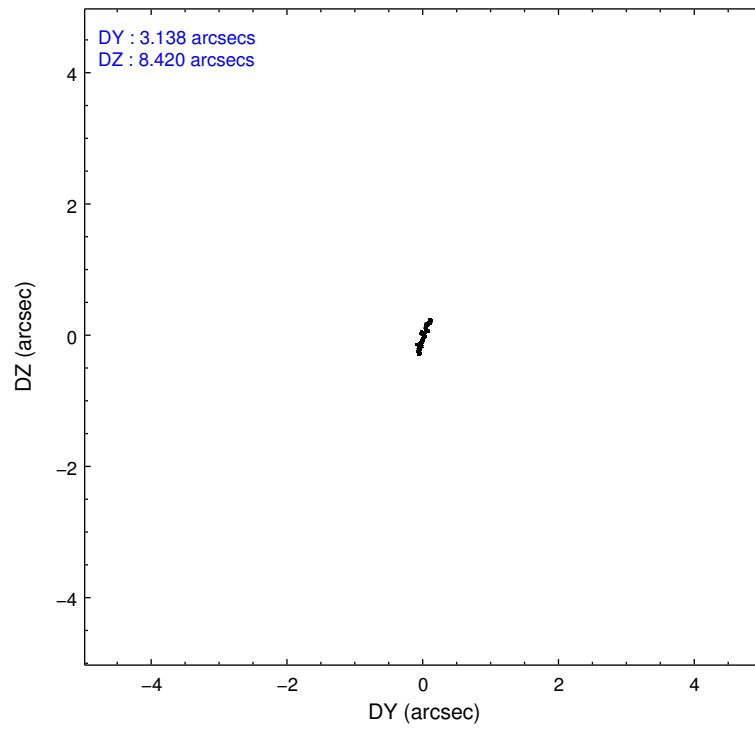
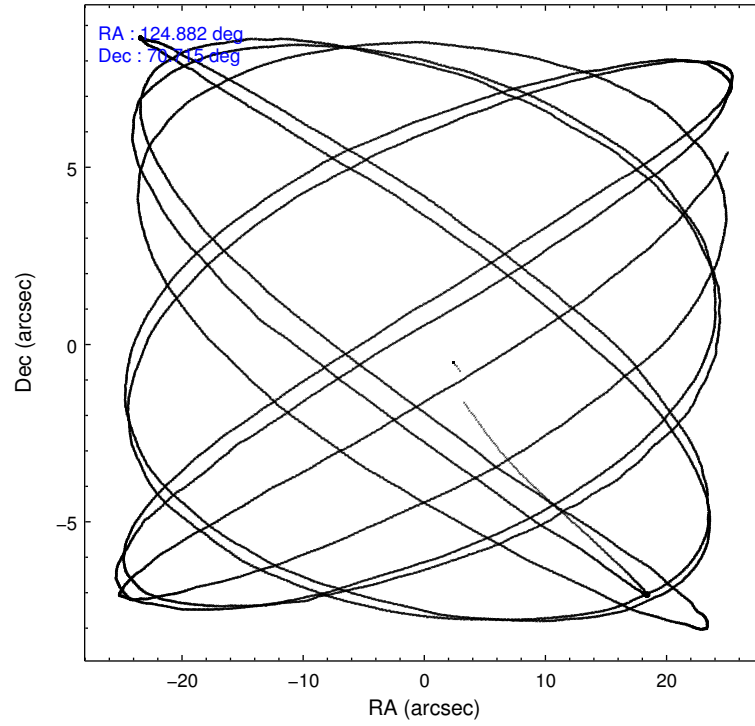
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	11796	10080	17430	11165	17721	14083
rejected events	10531	8846	7457	9905	8353	11858
rejected %	89%	87%	42%	88%	47%	84%

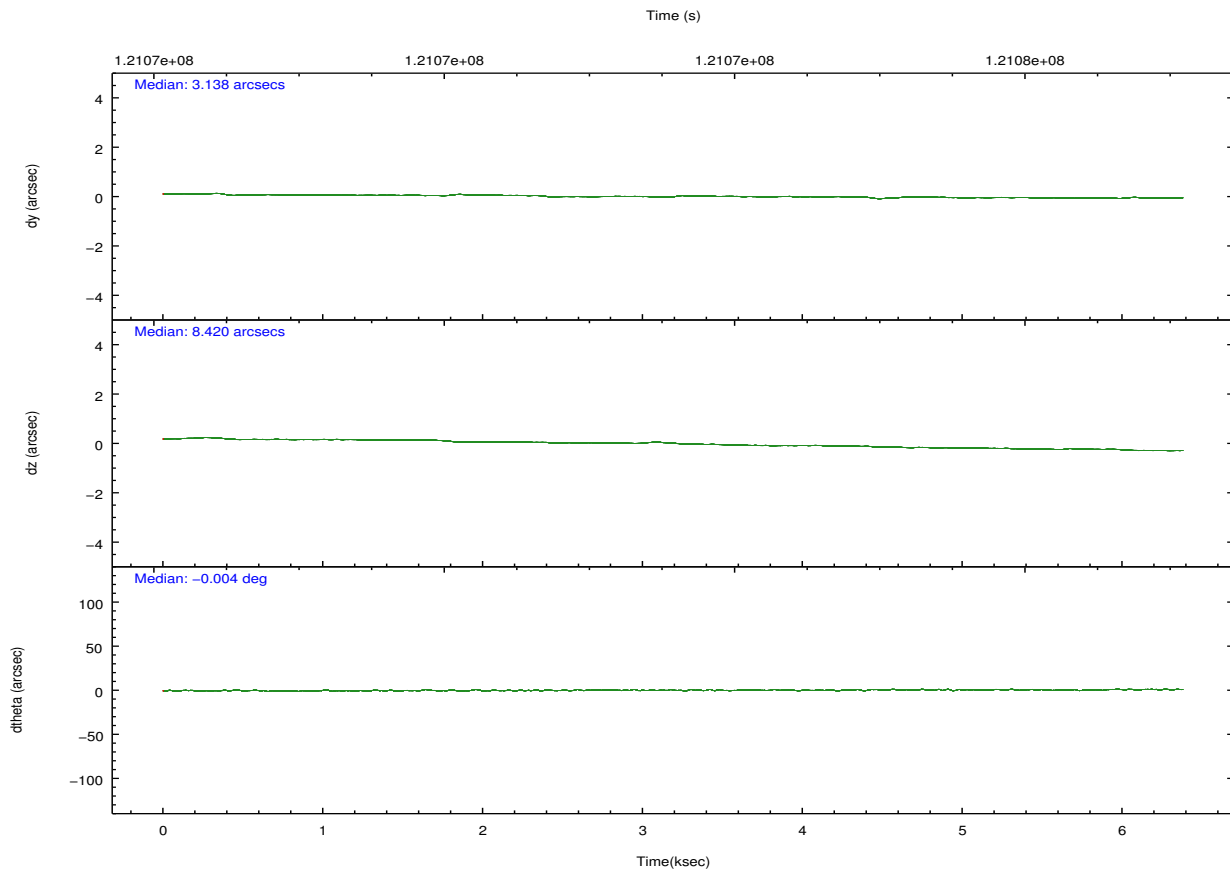
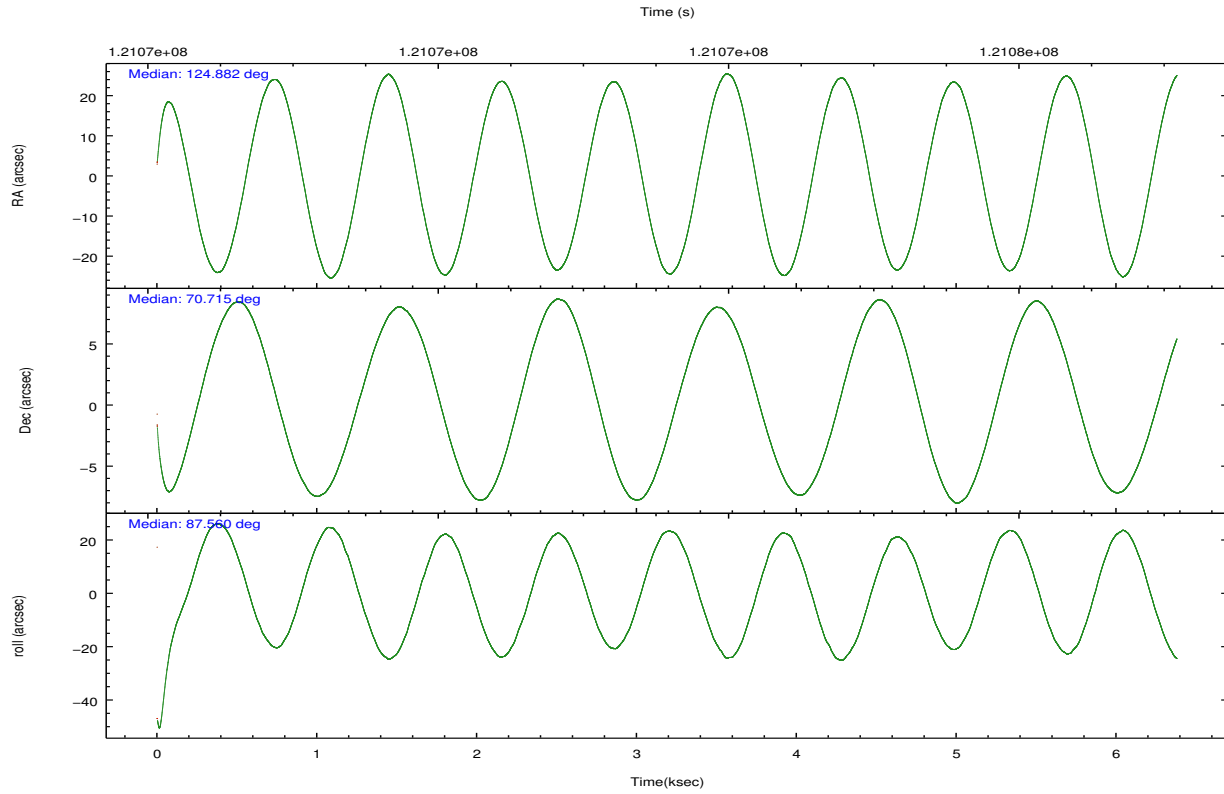
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	496	525	4140	502	1580	742
	4%	5%	23%	4%	8%	5%
grade 1 events	3	1	17	4	128	3
	0%	0%	0%	0%	0%	0%
grade 2 events	270	224	1972	222	2127	433
	2%	2%	11%	1%	12%	3%
grade 3 events	183	169	491	169	1047	284
	1%	1%	2%	1%	5%	2%
grade 4 events	172	149	478	181	986	265
	1%	1%	2%	1%	5%	1%
grade 5 events	352	332	1054	382	1580	477
	2%	3%	6%	3%	8%	3%
grade 6 events	203	205	3308	224	3978	571
	1%	2%	18%	2%	22%	4%
grade 7 events	10117	8475	5970	9481	6295	11308
	85%	84%	34%	84%	35%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	124.920031	124.8809514252275	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	70.690479	70.71445841716269	Subarray start row	385	385
[deg] Pointing Roll	87.373437	87.56686111973215	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.1
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	121070724.184000	121069669.98038			
Observation start date	2001-11-02T06:44:20	2001-11-02T06:27:49			
[s] Observation end time (MET)	121075724.184000	121077080.73068			
Observation end date	2001-11-02T08:07:40	2001-11-02T08:31:20			
Read mode	TIMED	TIMED			

## 2.3 Aspect



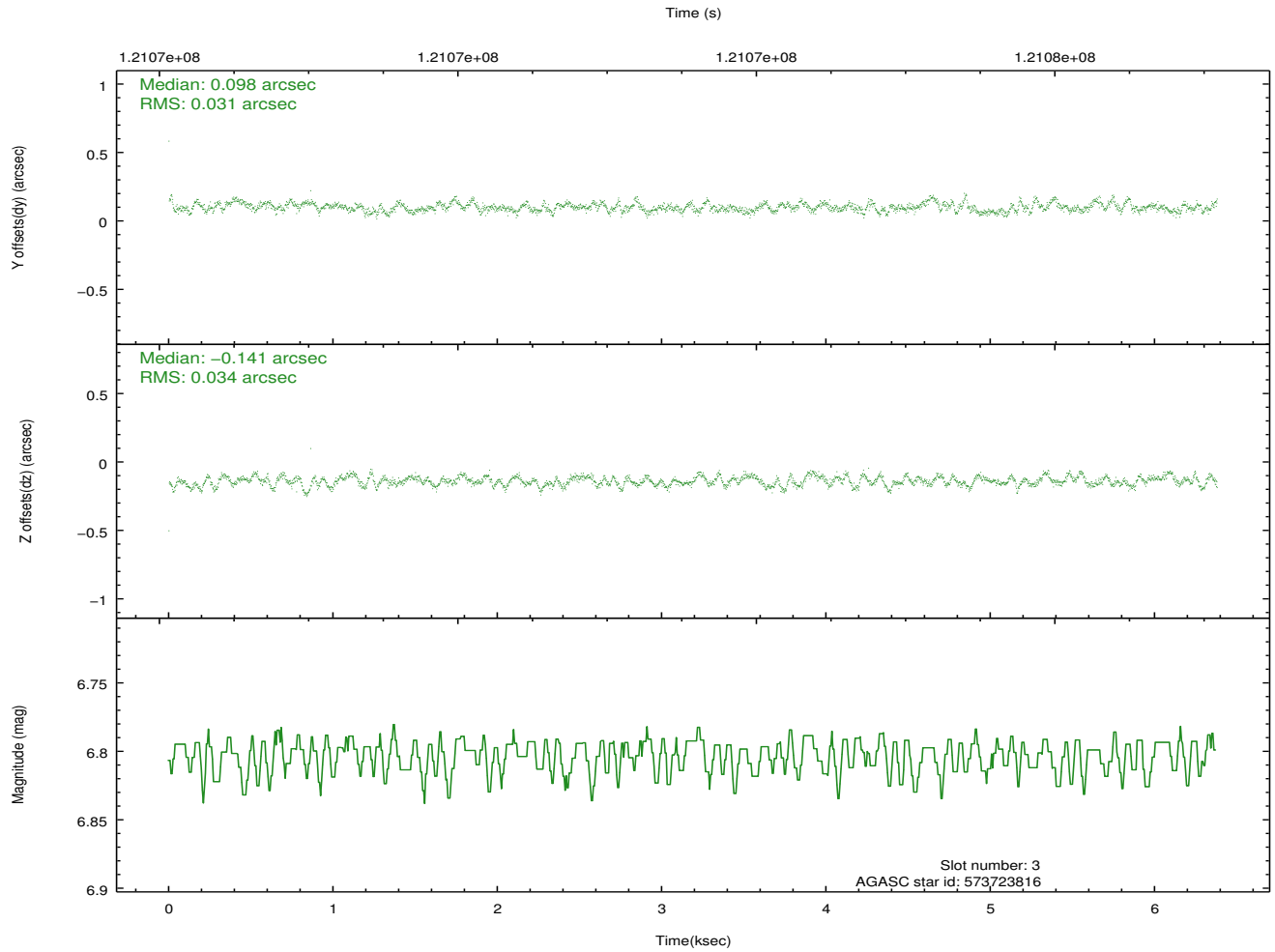
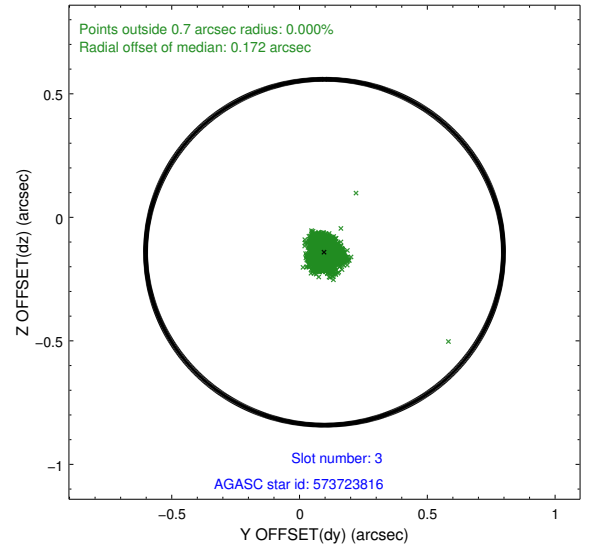
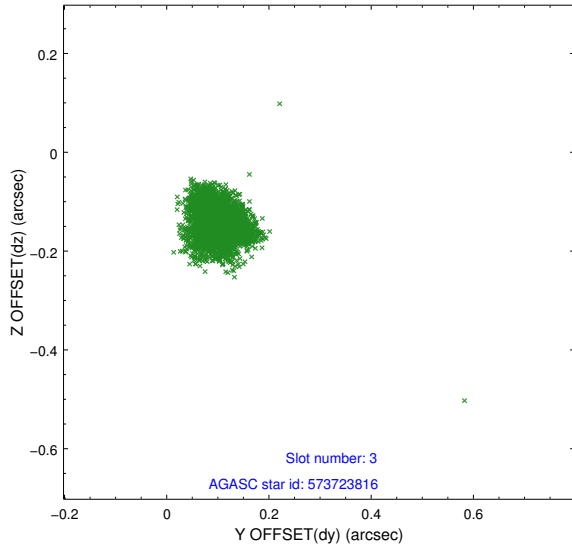


### Slot Statistics

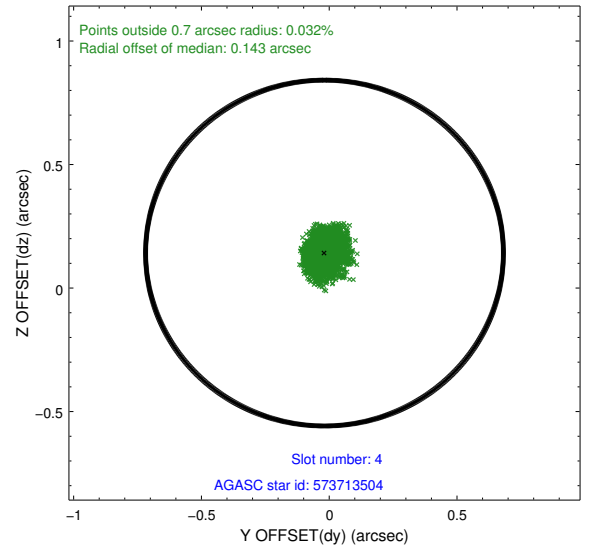
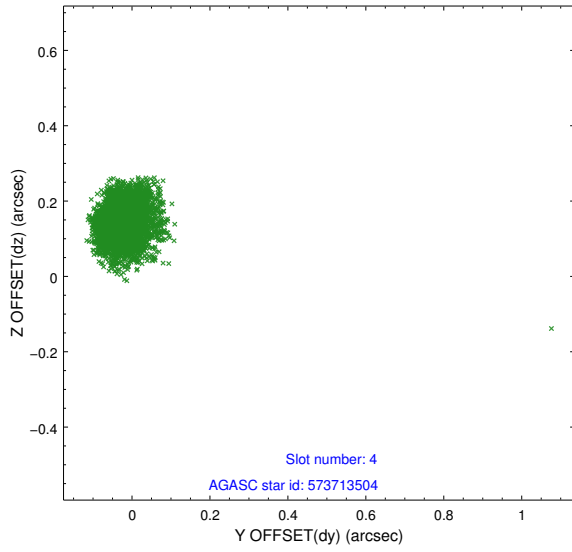
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1557	-0.002	-0.006	0.008	0.012	0.000000	0.000000	-755.80	-1729.60
1	FID	ACIS-S-4	7.19	1557	-0.038	0.002	0.007	0.012	0.000000	0.000000	2157.03	177.93
2	FID	ACIS-S-5	7.24	1557	0.008	0.012	0.007	0.012	0.000000	0.000000	-1807.44	172.68
3	GUIDE	573723816	6.80	3113	0.098	-0.141	0.047	0.076	124.391876	70.177108	-1873.83	559.89
4	GUIDE	573713504	7.26	3111	-0.018	0.142	0.069	0.104	126.581420	70.128073	-1902.96	-2121.28
5	GUIDE	573719824	8.77	3111	-0.126	-0.066	0.058	0.093	124.187277	71.200735	1799.45	933.74
6	GUIDE	573706240	8.96	3113	0.145	-0.129	0.101	0.171	123.203944	70.148644	-2015.56	2008.14
7	GUIDE	573717200	9.28	3112	-0.088	0.192	0.081	0.131	126.642702	71.051410	1417.31	-1948.88

## 2.4 Star Slots

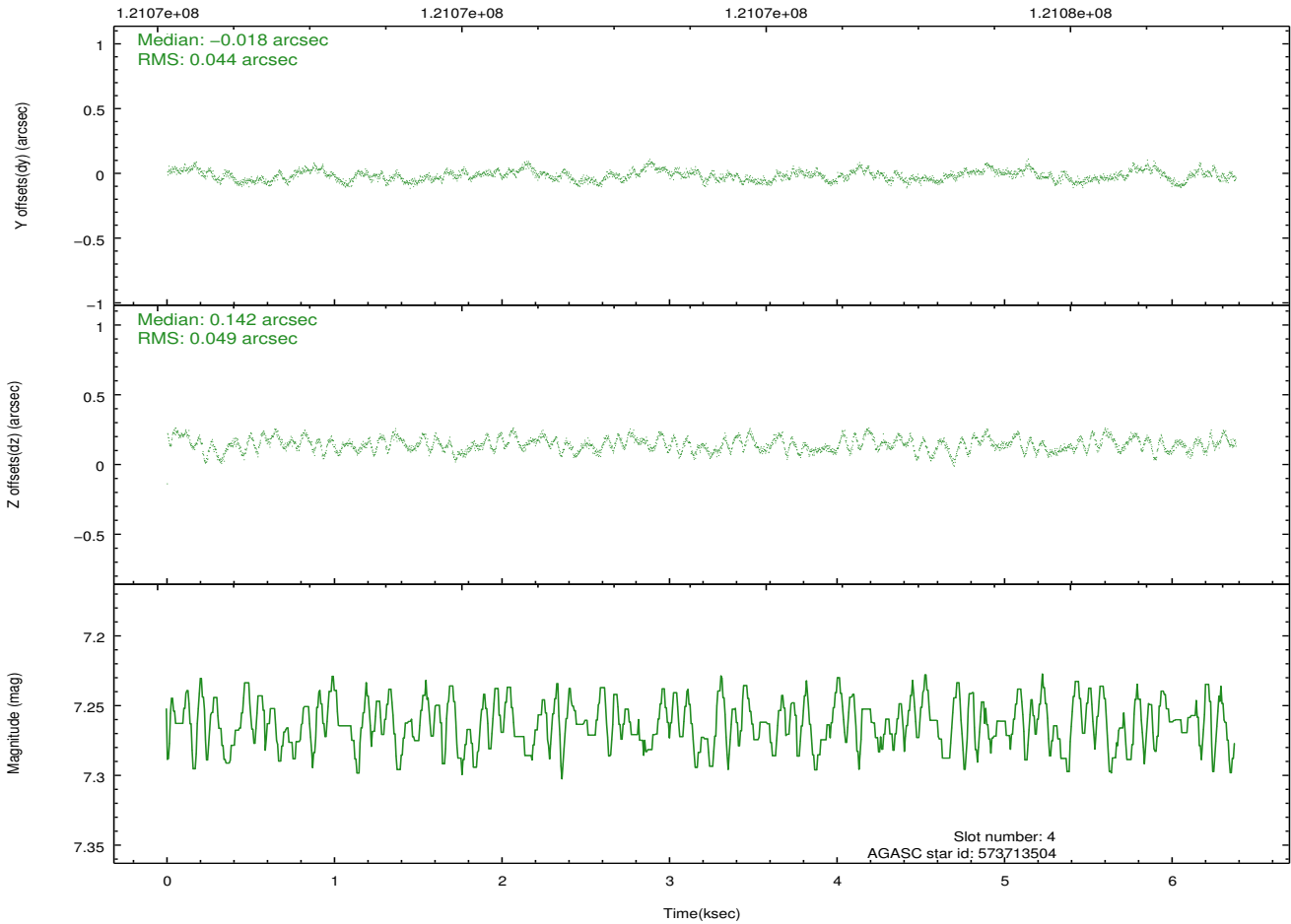
### 2.4.1 Slot 3



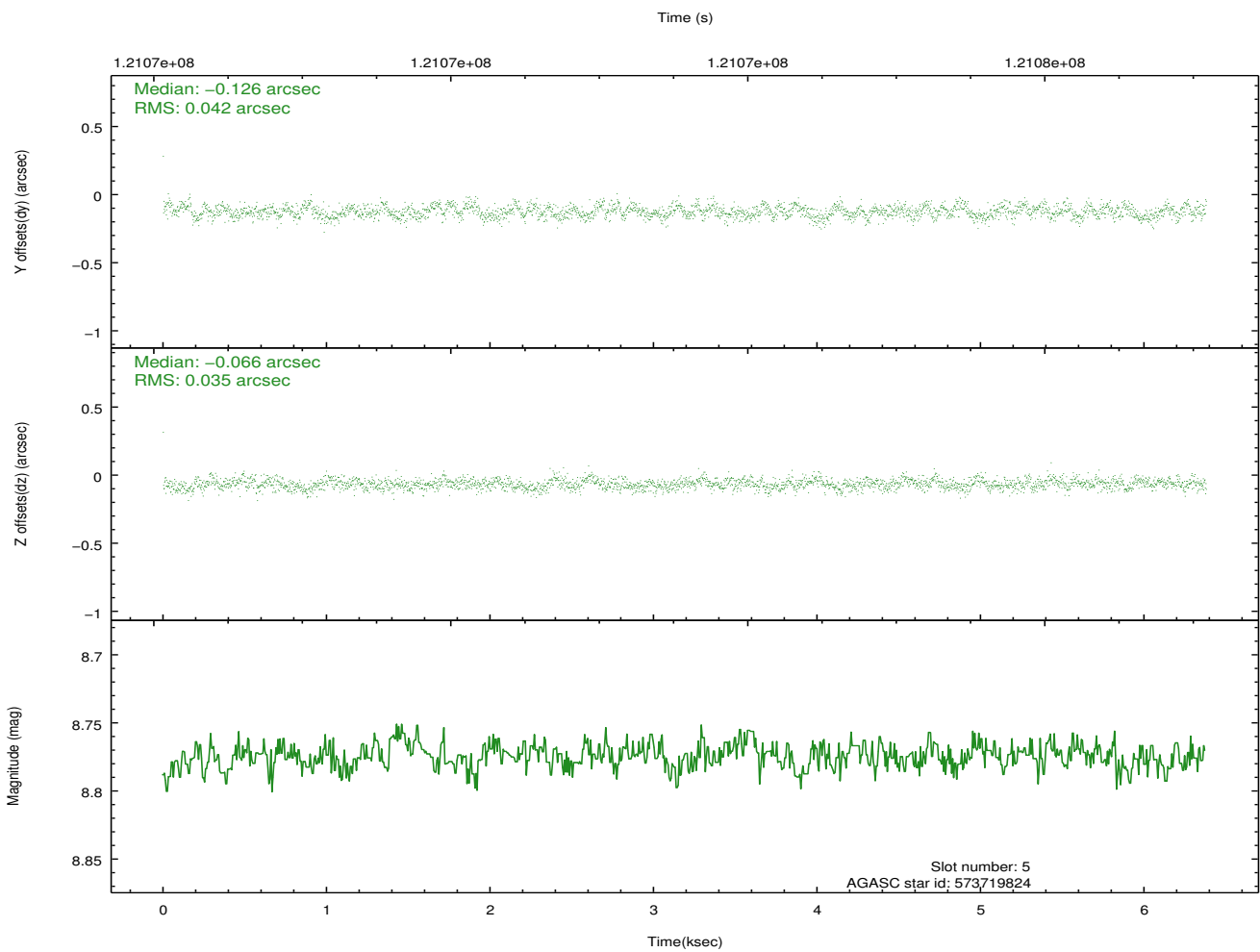
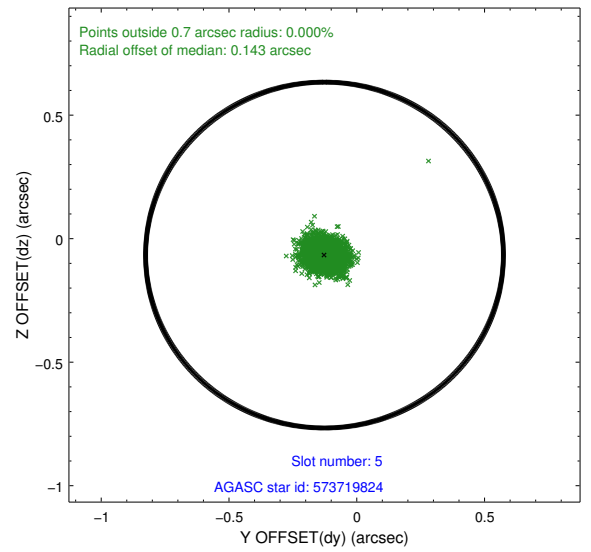
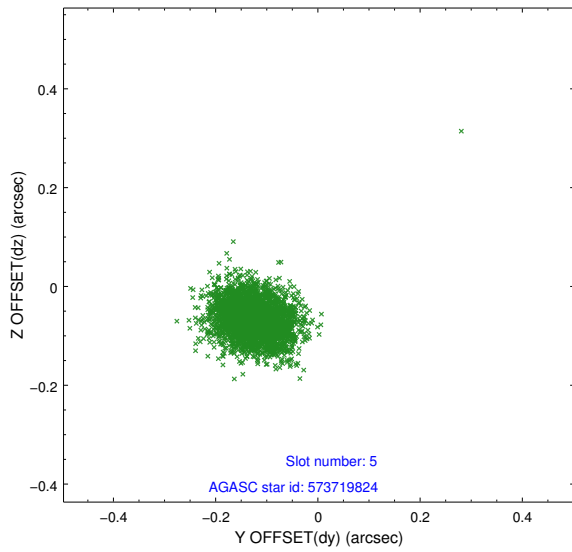
## 2.4.2 Slot 4



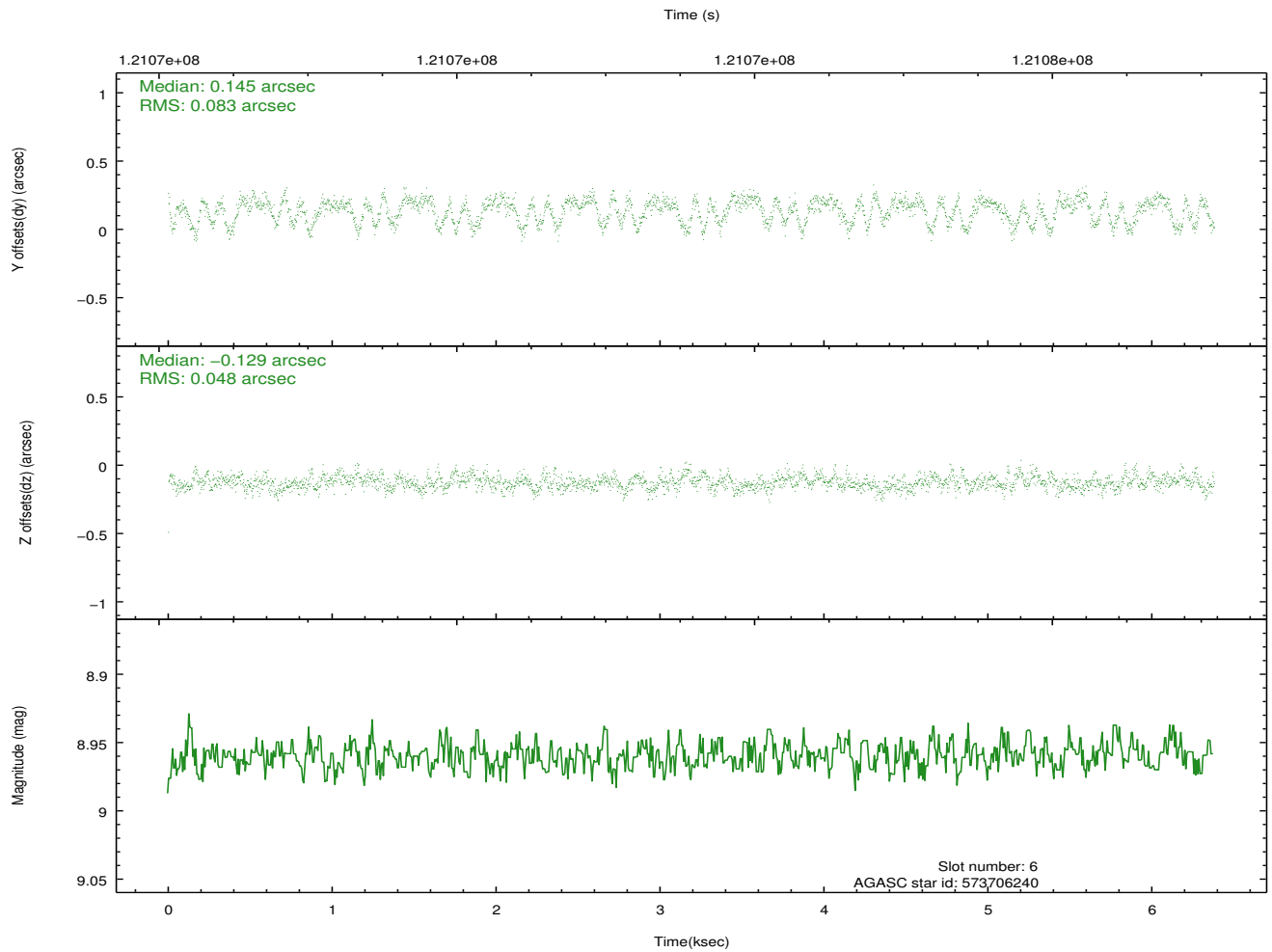
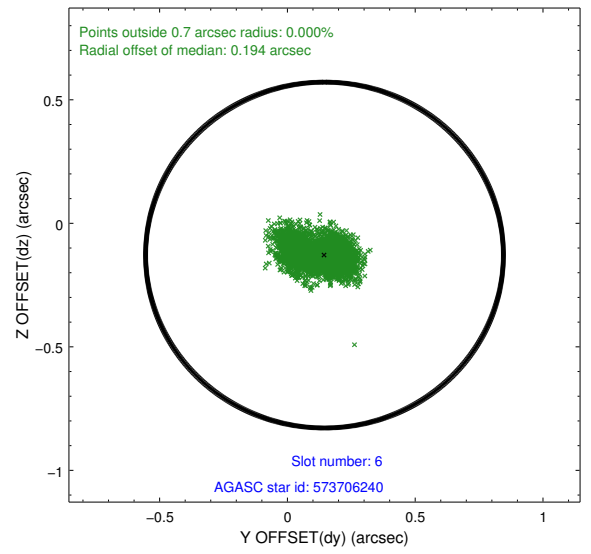
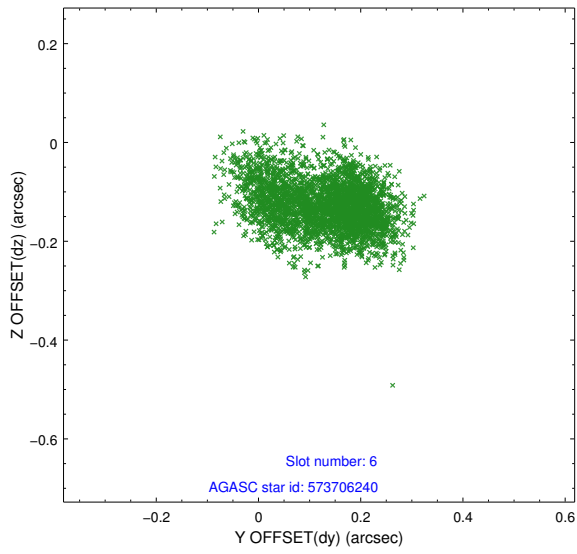
Time (s)



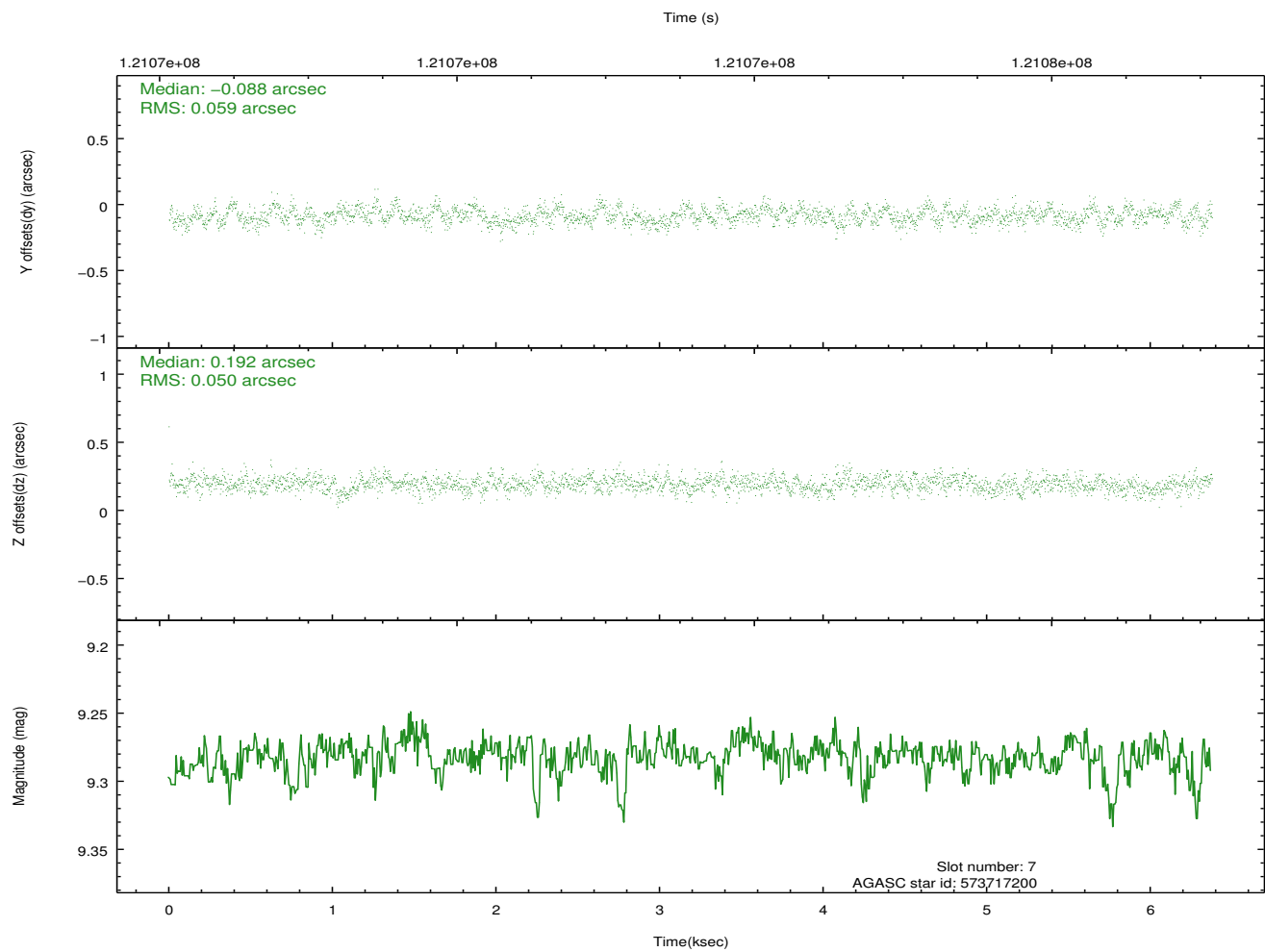
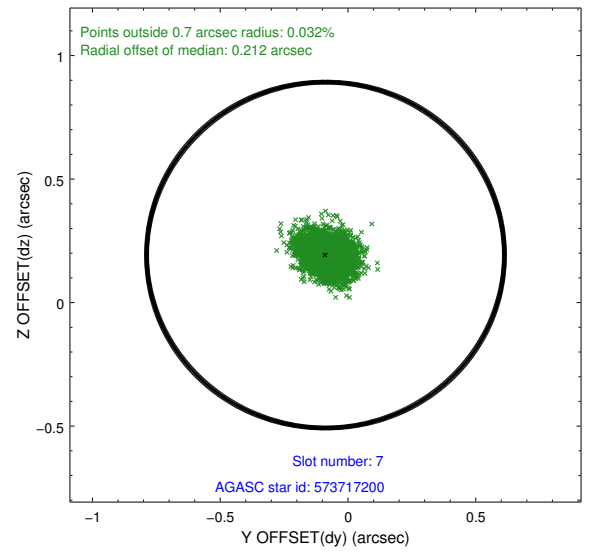
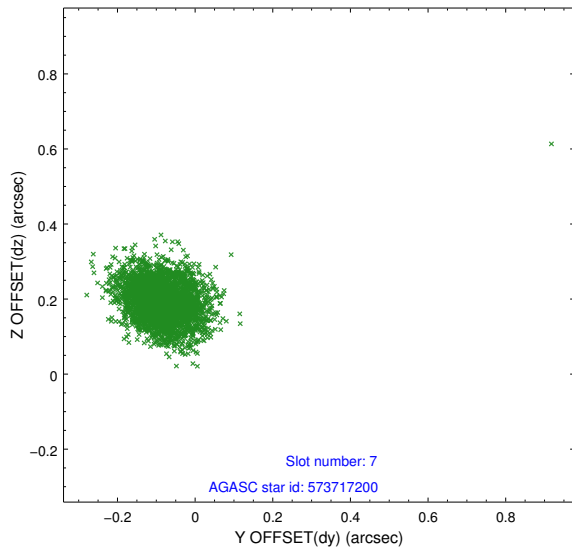
### 2.4.3 Slot 5



### 2.4.4 Slot 6

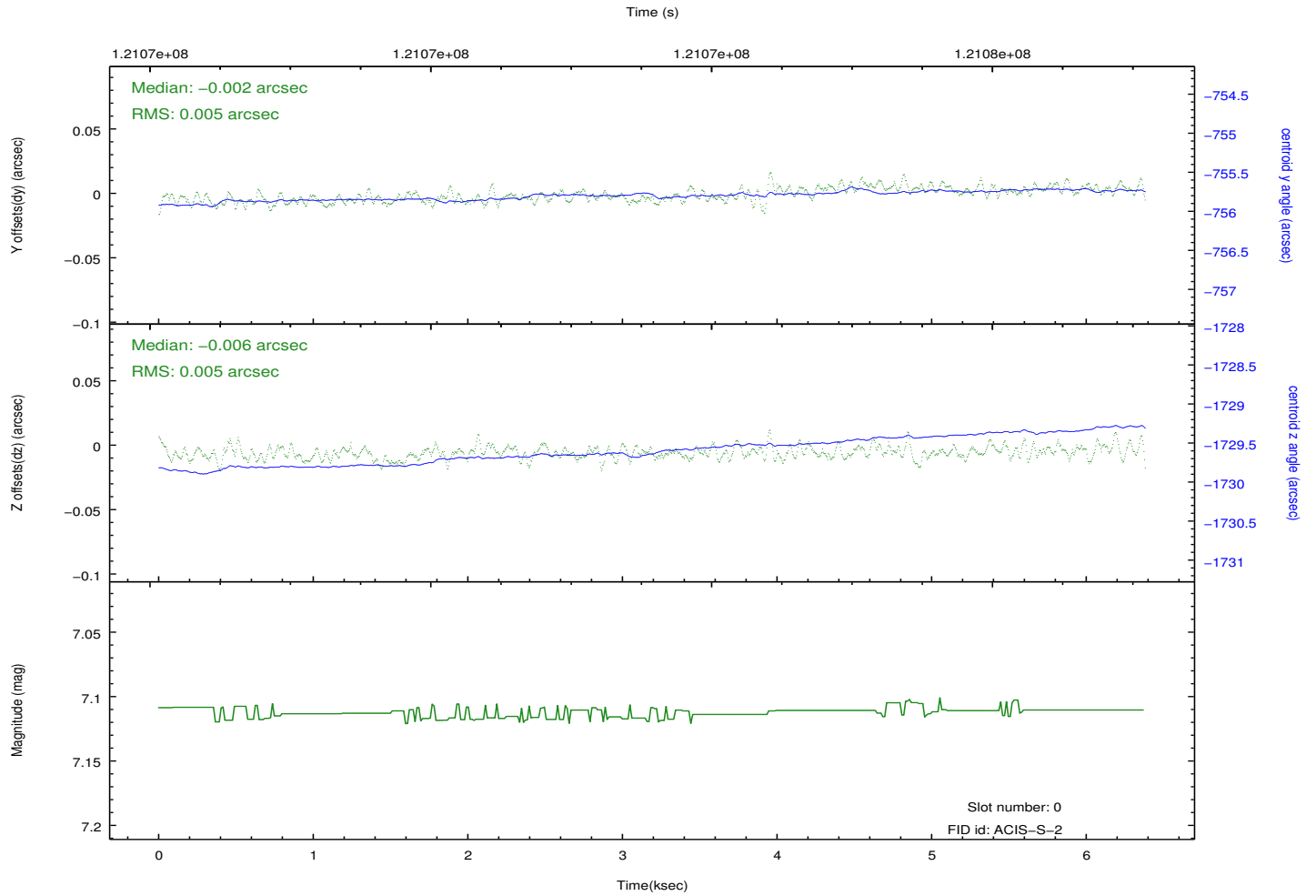
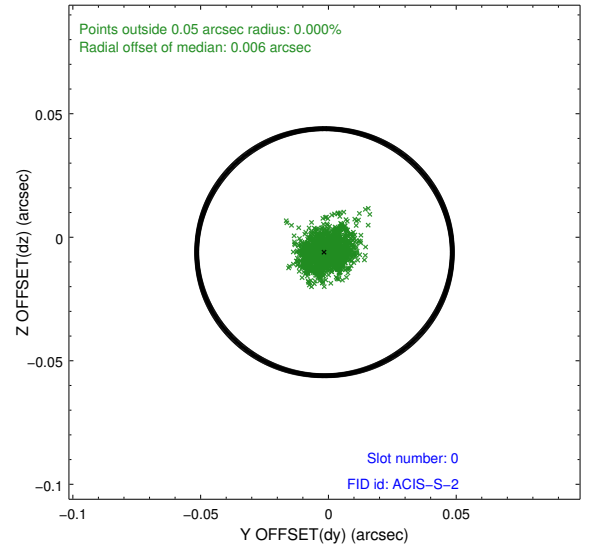
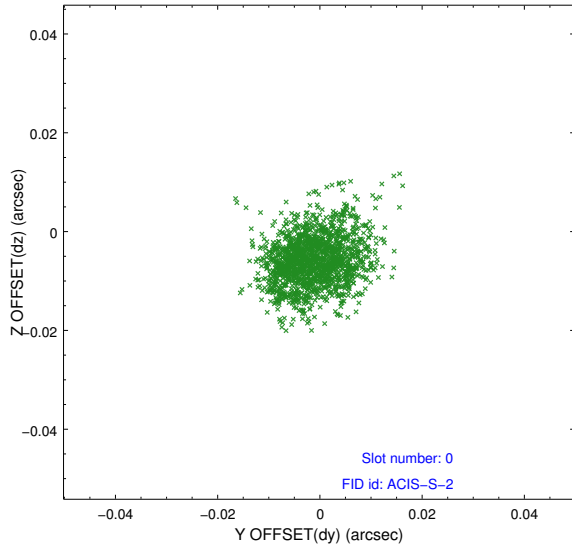


## 2.4.5 Slot 7

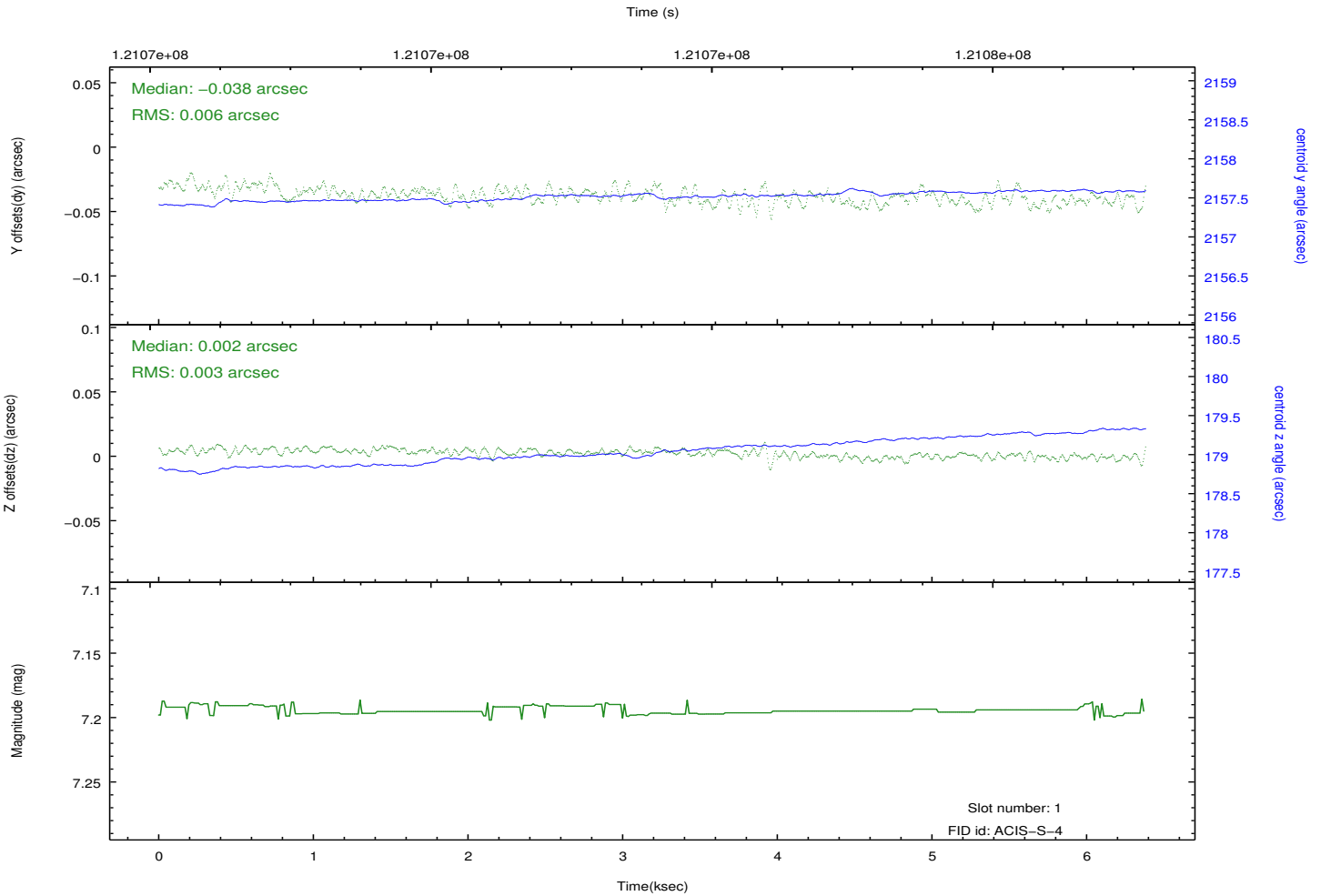
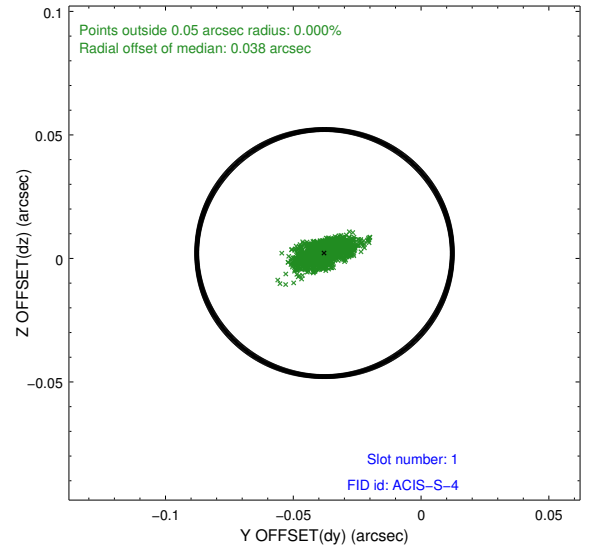
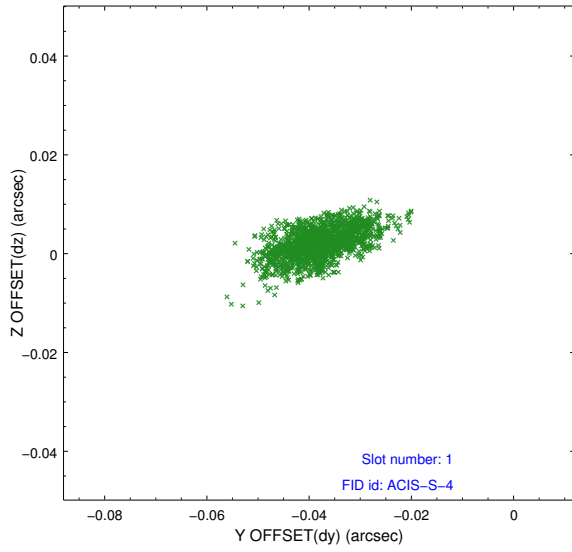


## 2.5 FID Slots

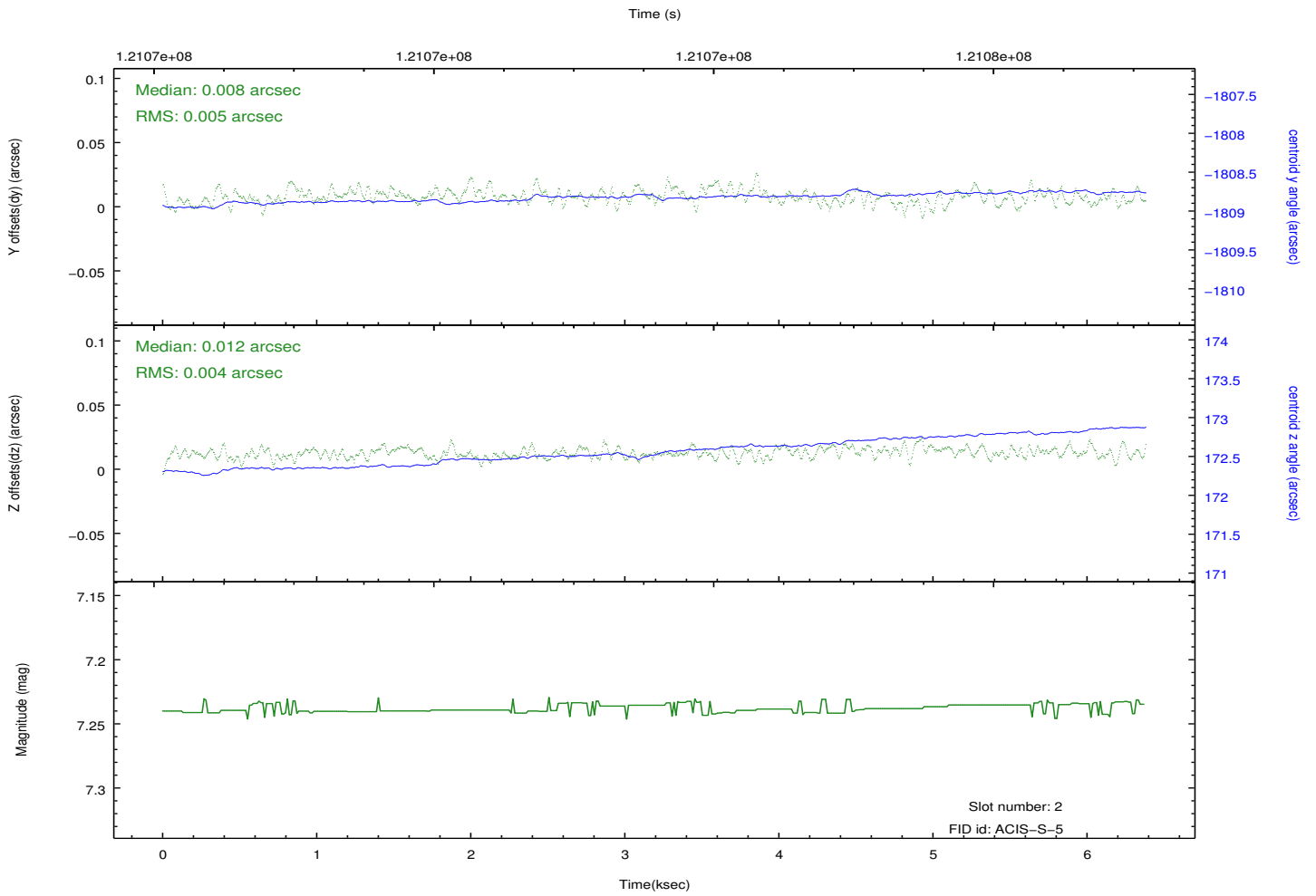
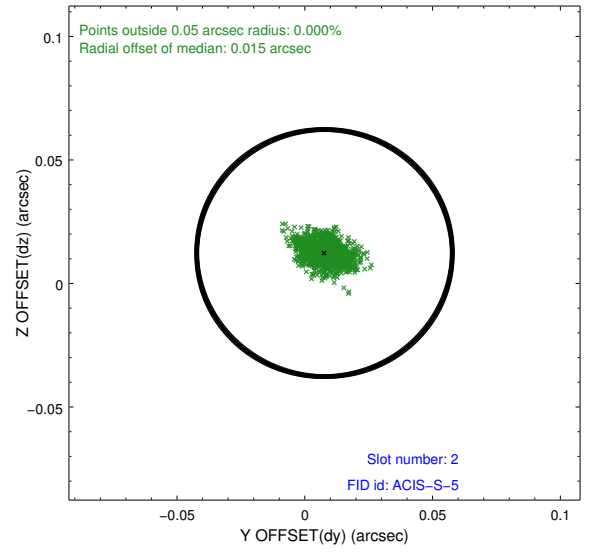
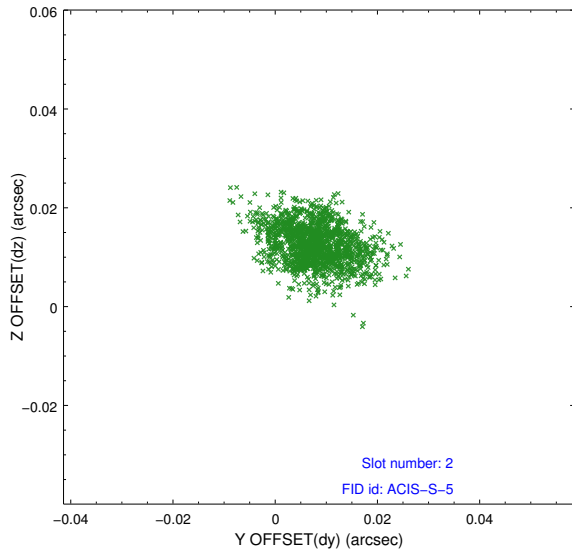
### 2.5.1 Slot 0



## 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)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.336

## A.2 Comments