

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9856 - L2 Version 2  
Chandra X-Ray Center

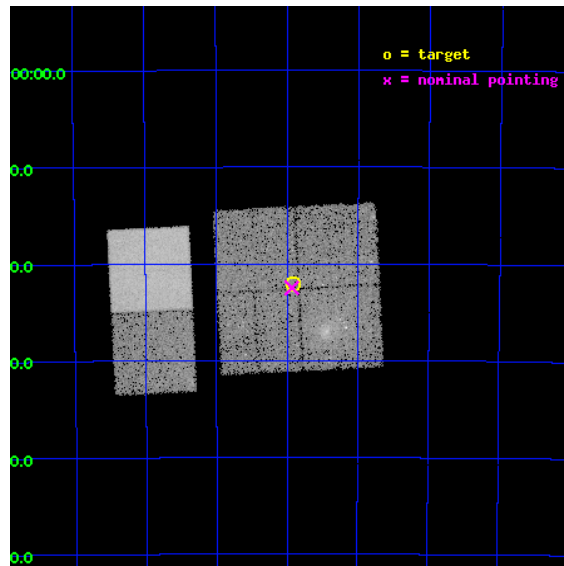
L2 Processing Date : May 15 2012

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# 1 Front

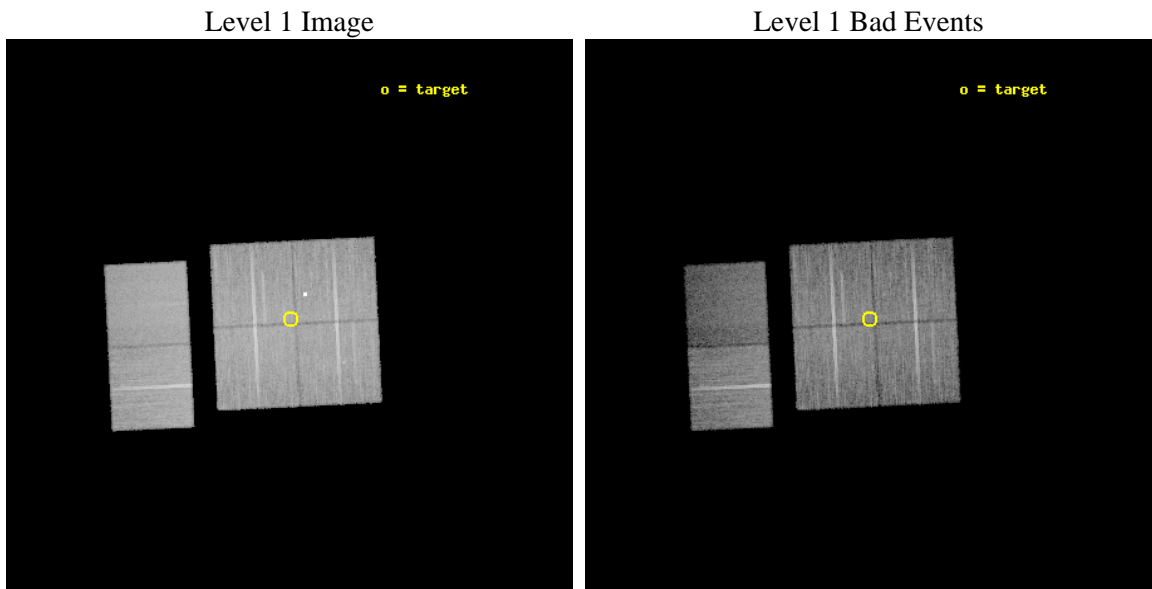
seq_num	900831	Sequence number
obs_id	9856	Observation id
title	The Great Nebula in Carina: Protoplanetary Disks to Starburst Galaxies	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	Carina South Pillars Ptg 4	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.729167	Observer's specified target RA [deg]
dec_targ	-60.367139	Observer's specified target Dec [deg]
ra_nom	161.73326831864	Nominal RA [deg]
dec_nom	-60.374940950507	Nominal Dec [deg]
roll_nom	267.21225086708	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19109.469352782	Sum of GTIs [s]
livetime	18867.493745496	Livetime [s]
ontime0	19109.346232772	Sum of GTIs [s]
ontime1	19102.905272067	Sum of GTIs [s]
ontime2	19109.428312778	Sum of GTIs [s]
ontime3	19109.469352782	Sum of GTIs [s]
ontime6	19106.310432434	Sum of GTIs [s]
ontime7	19109.510392785	Sum of GTIs [s]
l2events	129625	Number of level 2 events



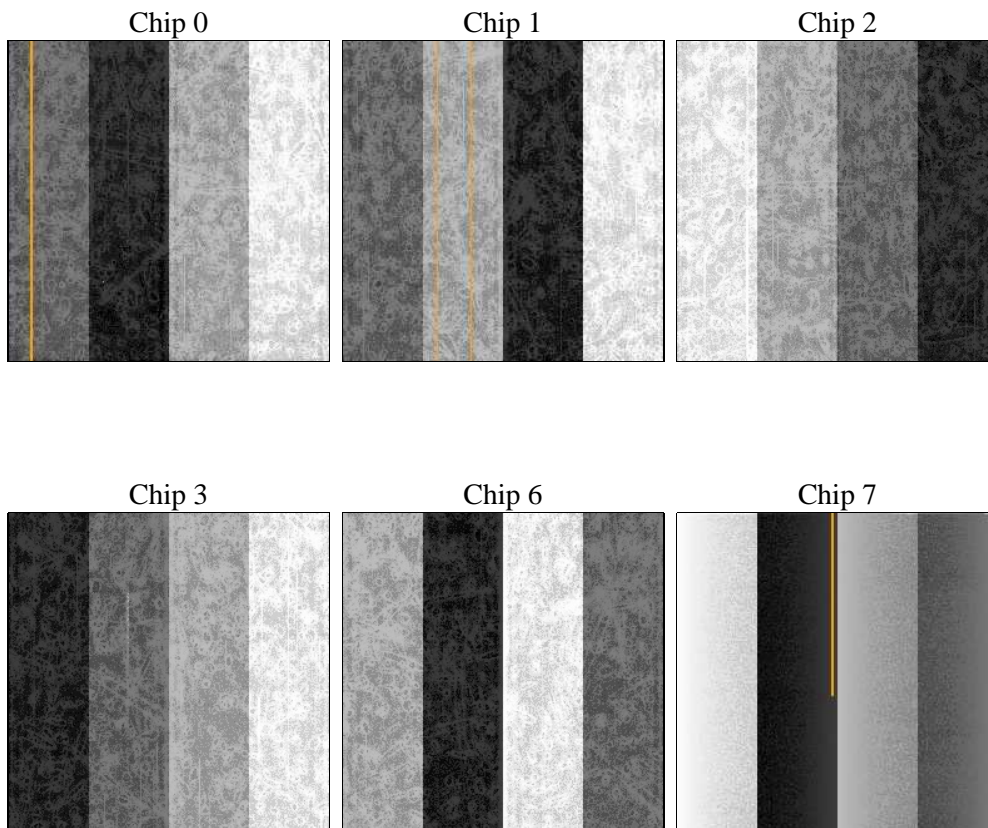
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	19109.469352782	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	19109.346232772	Sum of GTIs [s]
date	2012-05-15T15:29:16	Date and time of file creation	ontime1	19102.905272067	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	19109.428312778	Sum of GTIs [s]
			ontime3	19109.469352782	Sum of GTIs [s]
			ontime6	19106.310432434	Sum of GTIs [s]
			ontime7	19109.510392785	Sum of GTIs [s]
			l1events	825858	Number of level 1 events

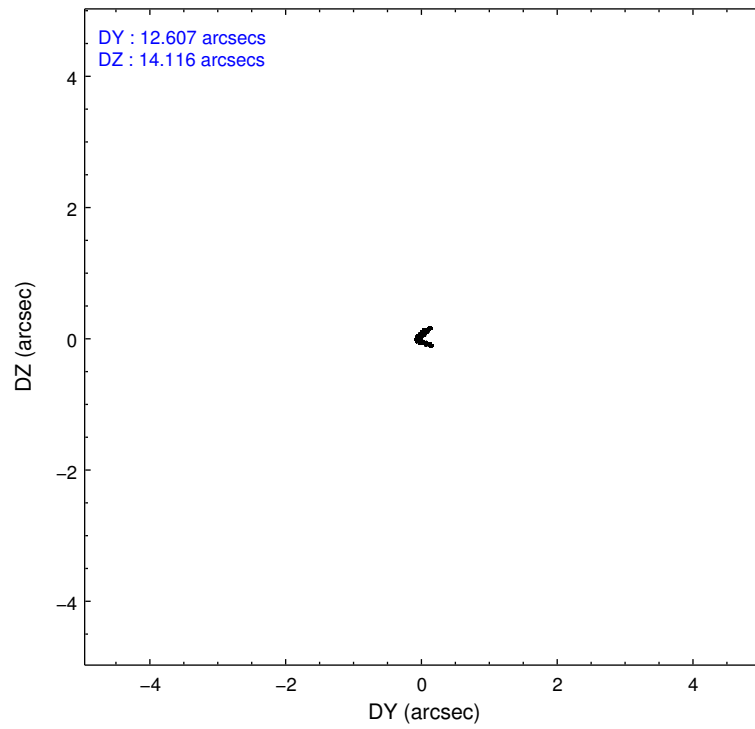
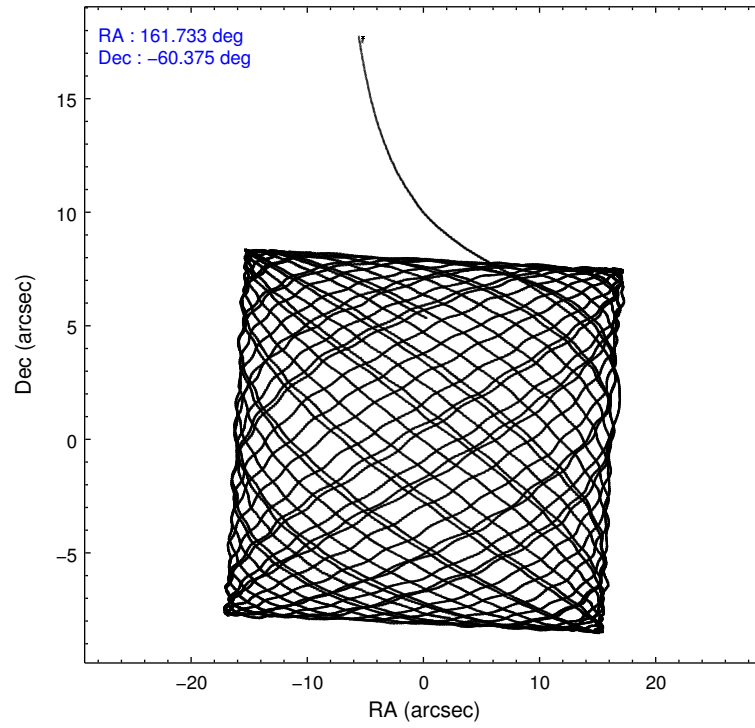
### 2.1.4 Events

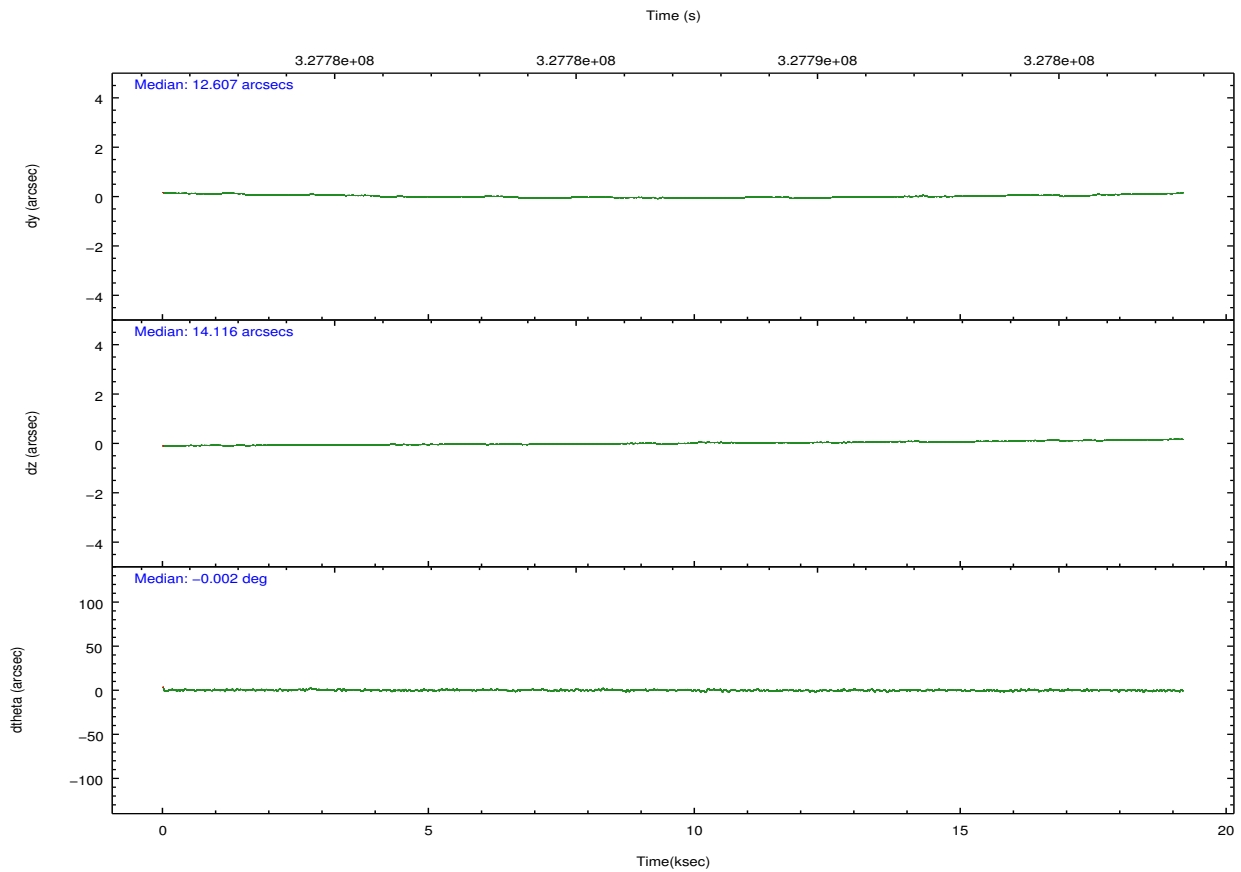
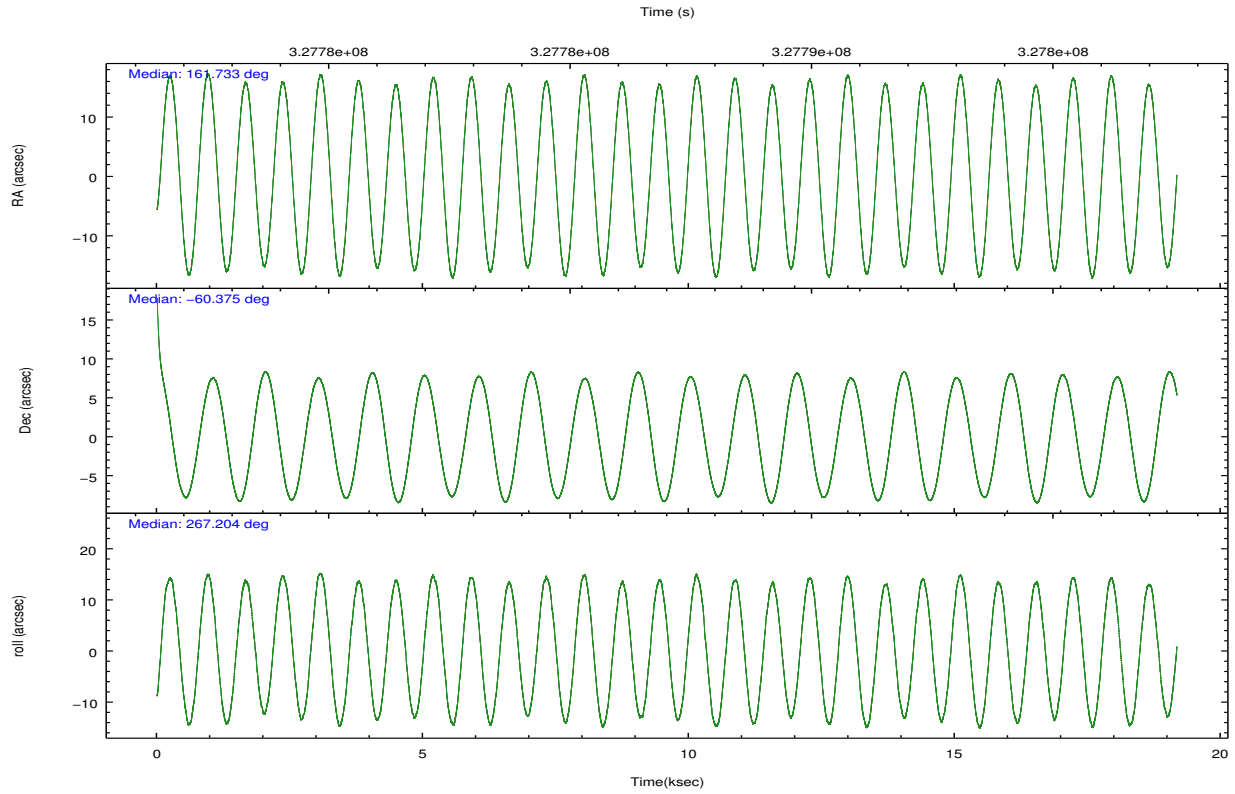
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	134317	131847	144687	135948	144179	134880	grade 0 events	8827	11273	6417	5232	5676	6874
rejected events	115473	111175	129452	122499	129183	67963		6%	8%	4%	3%	3%	5%
rejected %	85%	84%	89%	90%	89%	50%	grade 1 events	89	176	81	77	74	173
								0%	0%	0%	0%	0%	0%
							grade 2 events	3932	3297	3387	2974	3256	14011
								2%	2%	2%	2%	2%	10%
							grade 3 events	1780	1624	1503	1436	1590	6342
								1%	1%	1%	1%	1%	4%
							grade 4 events	1619	1643	1477	1419	1492	6250
								1%	1%	1%	1%	1%	4%
							grade 5 events	4067	4681	3903	4803	5048	14449
								3%	3%	2%	3%	3%	10%
							grade 6 events	2696	2840	2452	2390	2985	33463
								2%	2%	1%	1%	2%	24%
							grade 7 events	111307	106313	125467	117617	124058	53318
								82%	80%	86%	86%	86%	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	161.707643	161.7332683186379	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.350556	-60.37494095050693	CCD I3 on	Y	Y
[deg] Pointing Roll	266.981296	267.2122508670843	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	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327777595.184000	327776409.31048	CCD S5 on	N	N
Observation start date	2008-05-21T17:18:50	2008-05-21T17:00:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327796595.184000	327797138.39899	On-chip summing requested	N	N
Observation end date	2008-05-21T22:35:30	2008-05-21T22:45:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



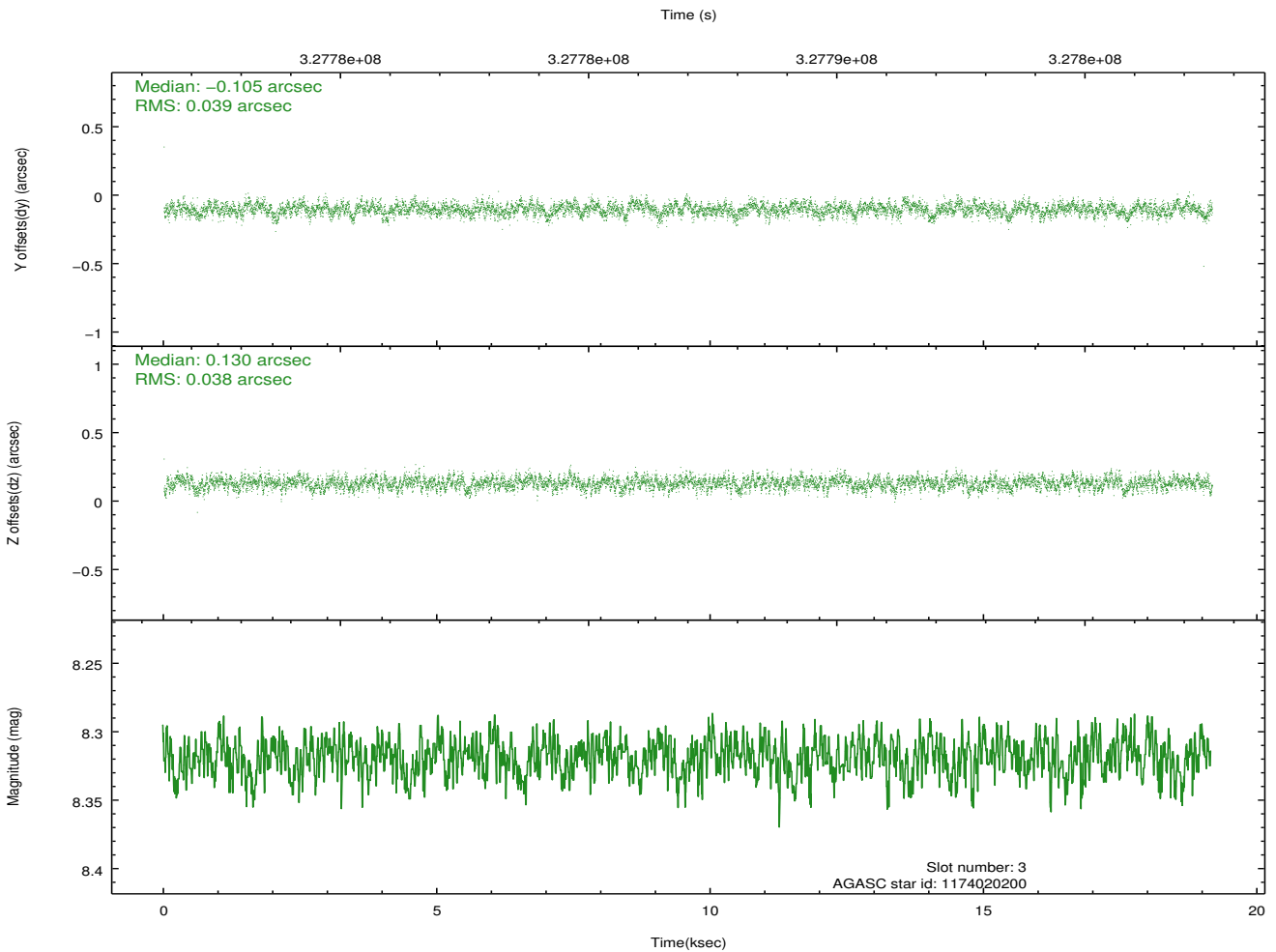
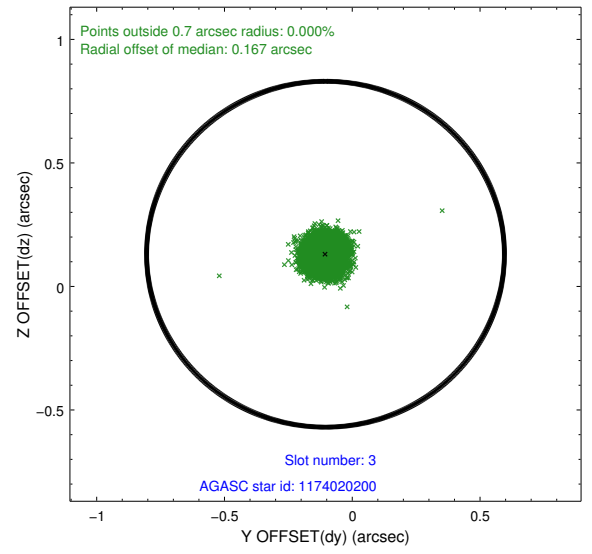
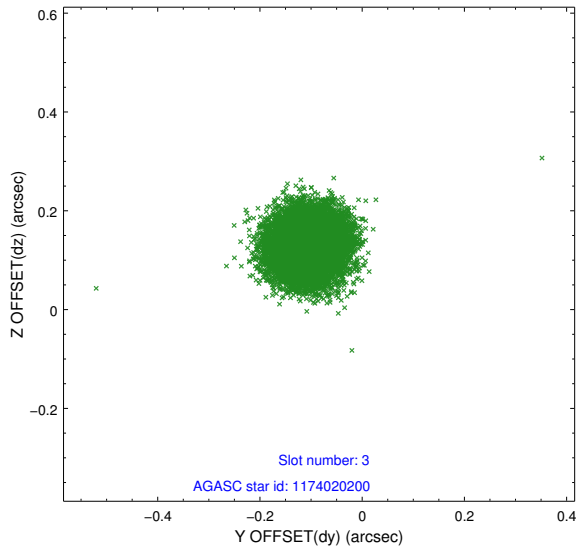


### Slot Statistics

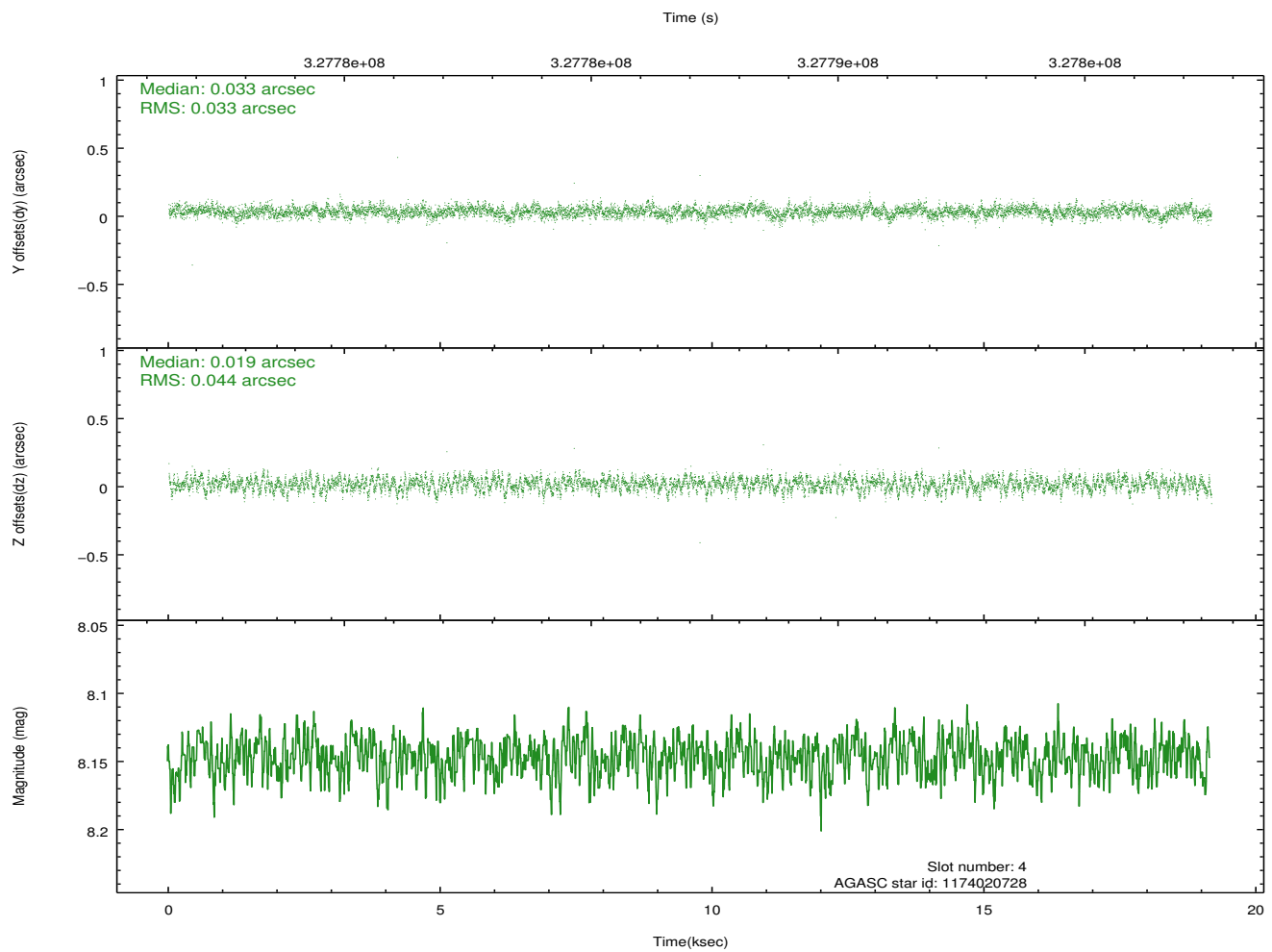
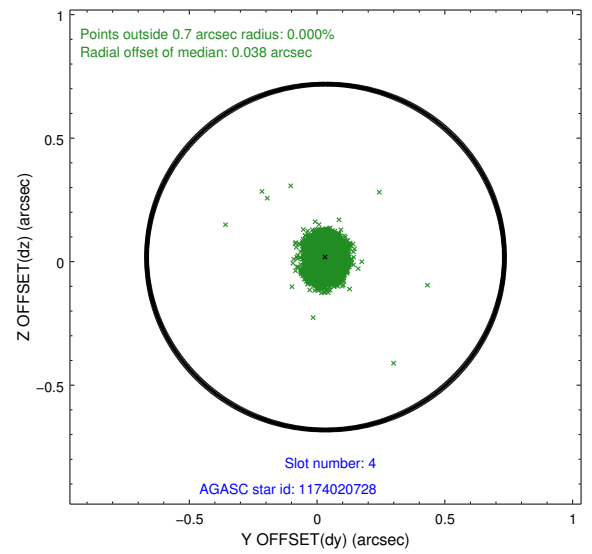
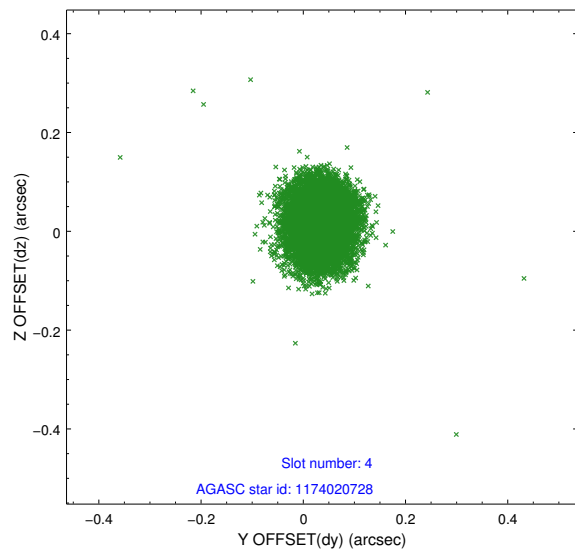
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.01	4677	0.143	0.024	0.008	0.014	0.000000	0.000000	2147.01	1062.19
1	FID	ACIS-I-5	7.06	4675	-0.242	0.020	0.007	0.012	0.000000	0.000000	-1821.07	1060.11
2	FID	ACIS-I-6	7.07	4676	-0.000	0.023	0.008	0.015	0.000000	0.000000	392.23	1704.44
3	GUIDE	1174020200	8.32	9351	-0.105	0.130	0.058	0.092	160.489138	-60.487295	625.83	-2130.42
4	GUIDE	1174020728	8.15	9353	0.033	0.019	0.058	0.094	162.364714	-60.294672	-256.57	1160.19
5	GUIDE	1174033752	8.46	9350	-0.036	-0.026	0.067	0.106	162.418977	-60.164599	-728.70	1237.54
6	GUIDE	1130642000	7.94	9351	-0.061	-0.005	0.064	0.110	162.836255	-59.743891	-2271.49	1930.30
7	GUIDE	1174030544	7.59	9350	0.169	-0.116	0.069	0.114	160.765344	-60.986885	2386.49	-1521.17

## 2.4 Star Slots

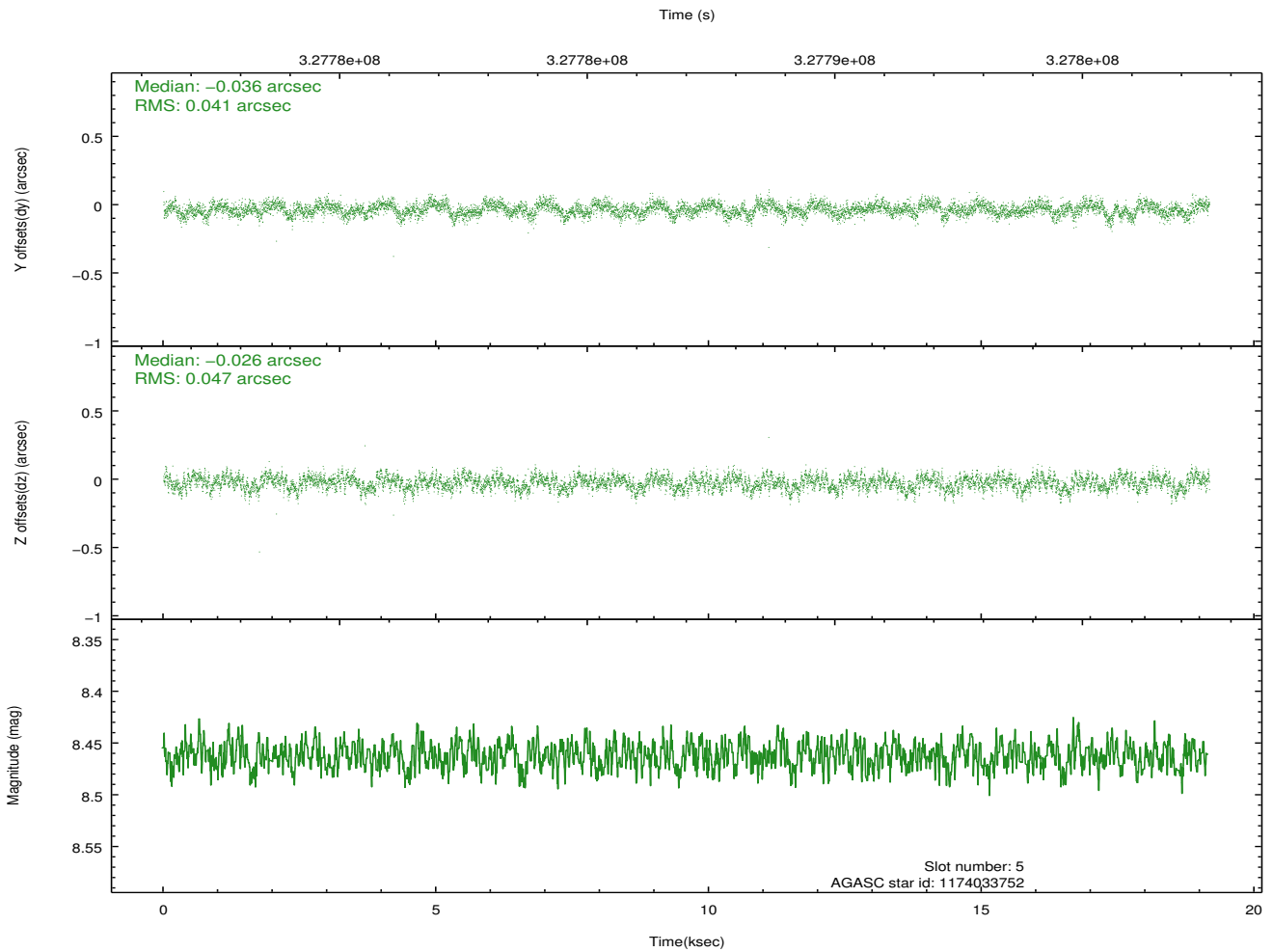
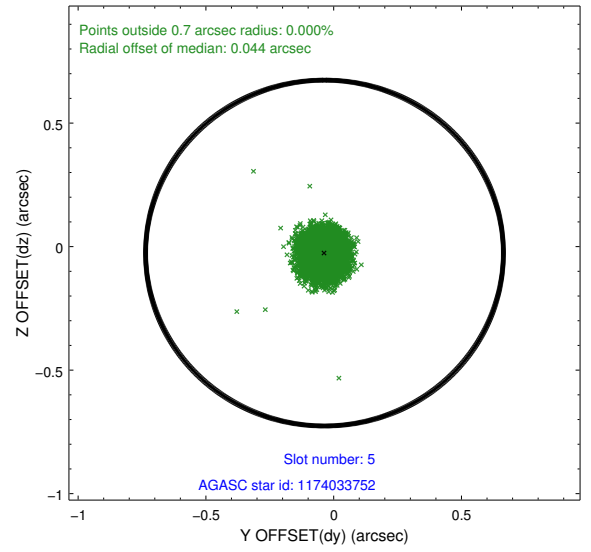
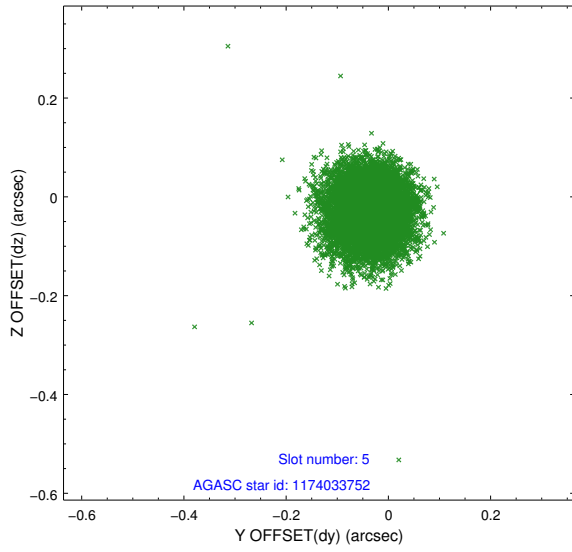
### 2.4.1 Slot 3



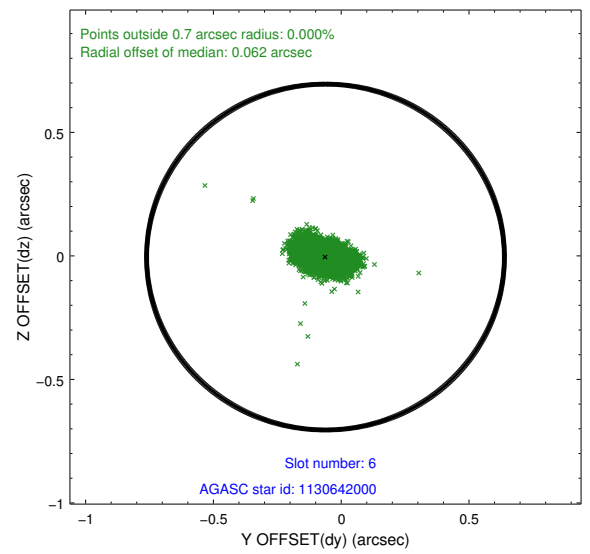
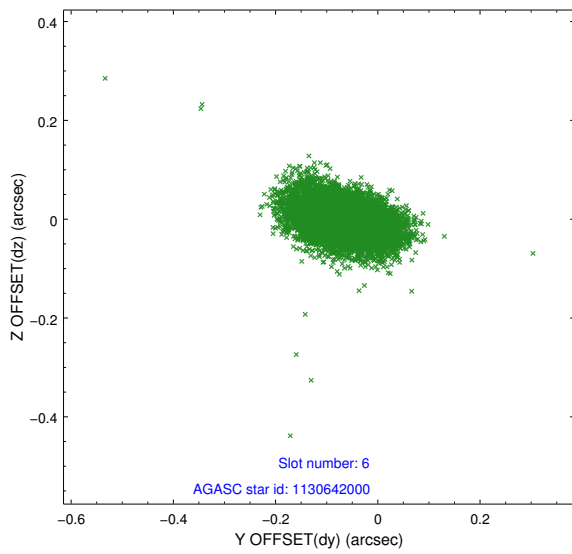
## 2.4.2 Slot 4



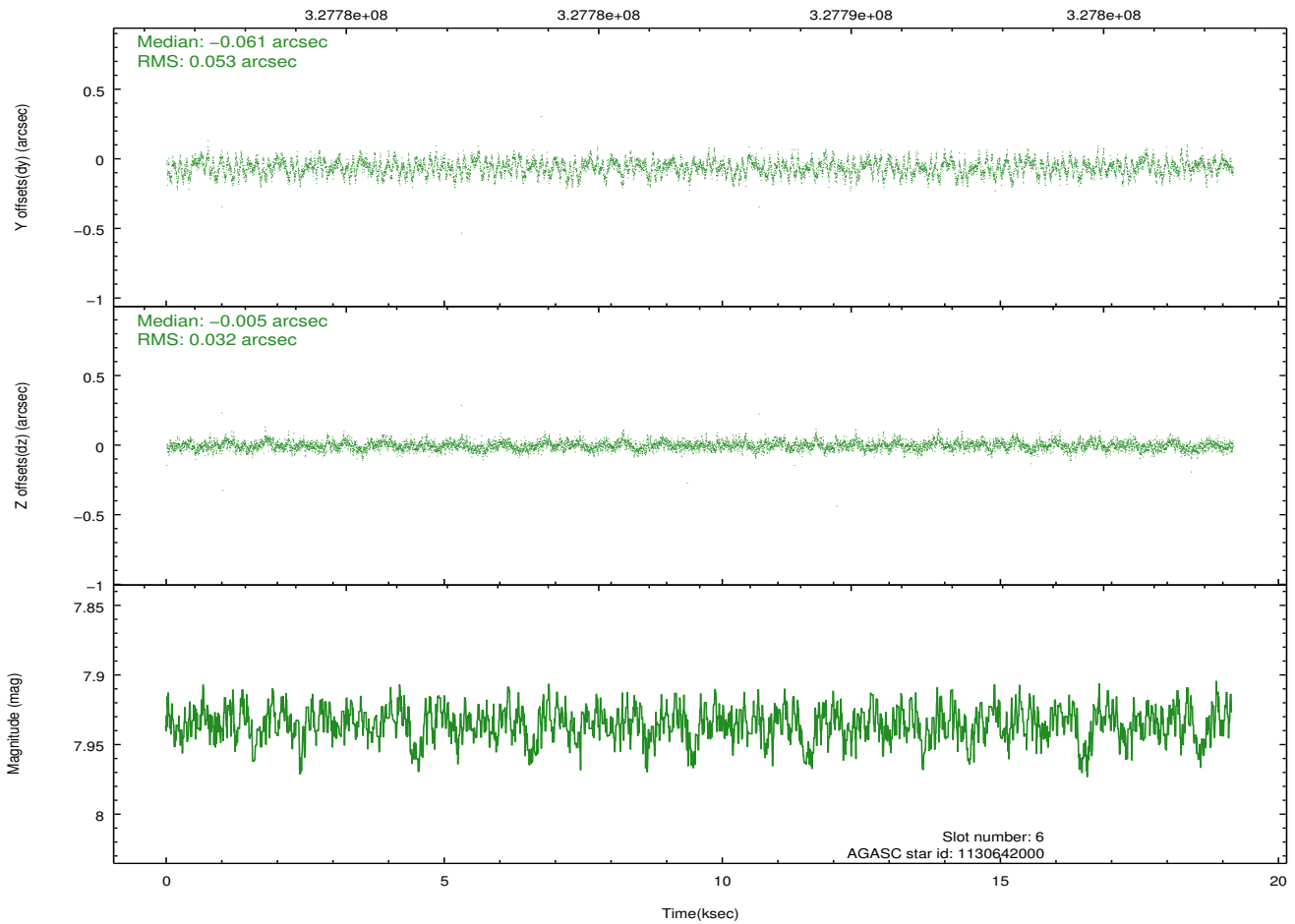
### 2.4.3 Slot 5



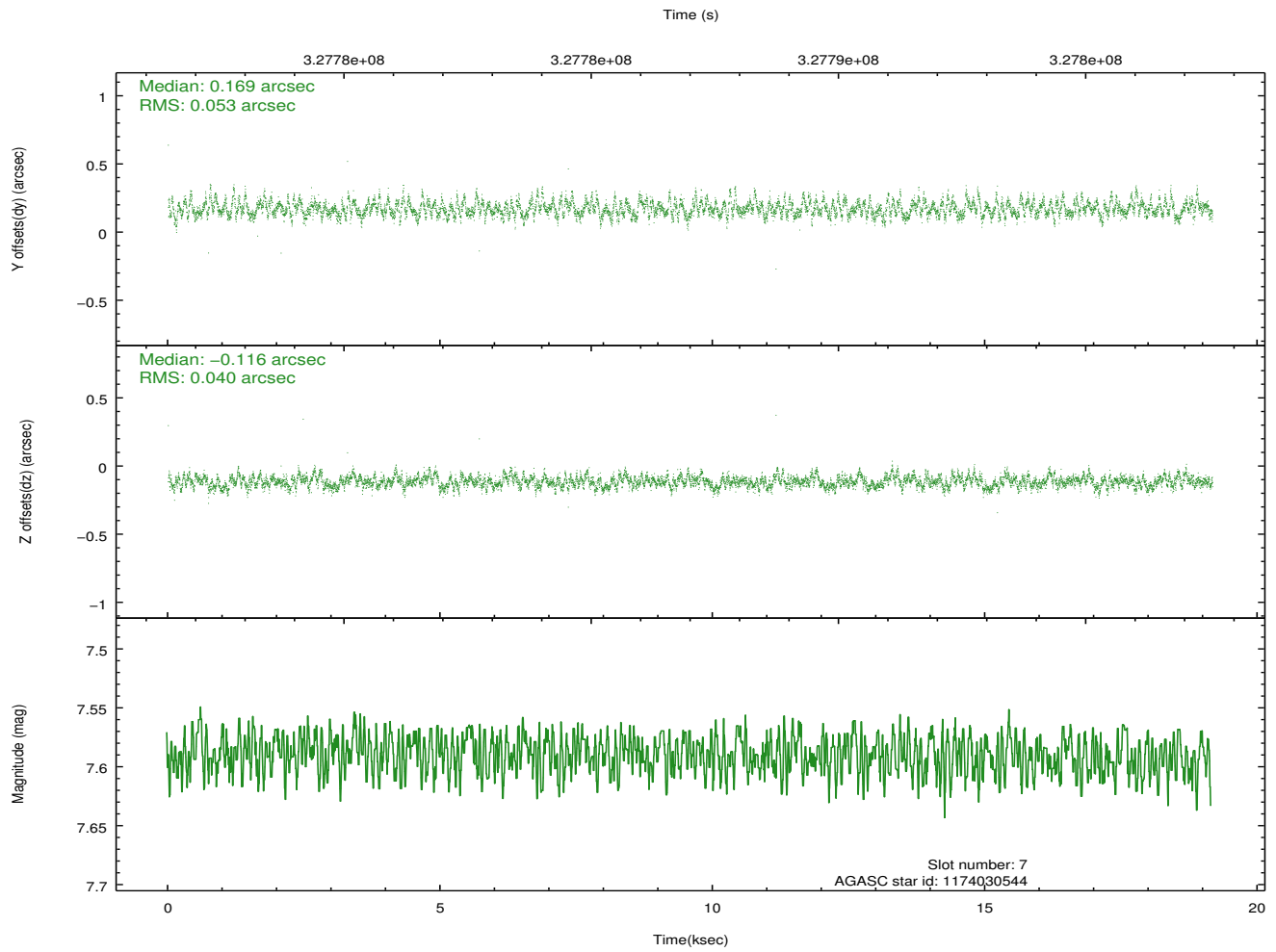
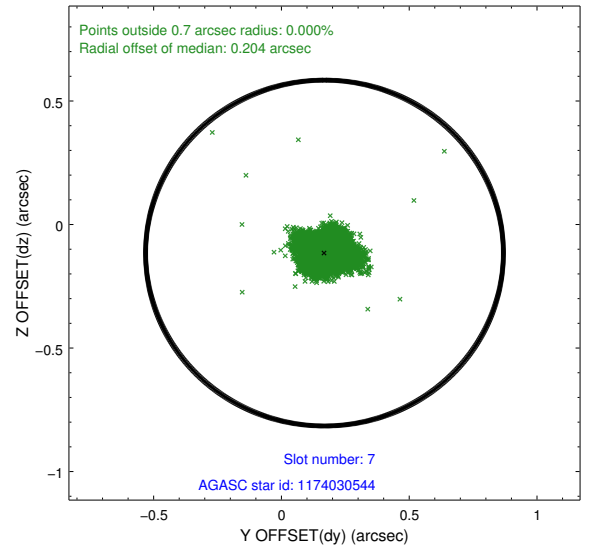
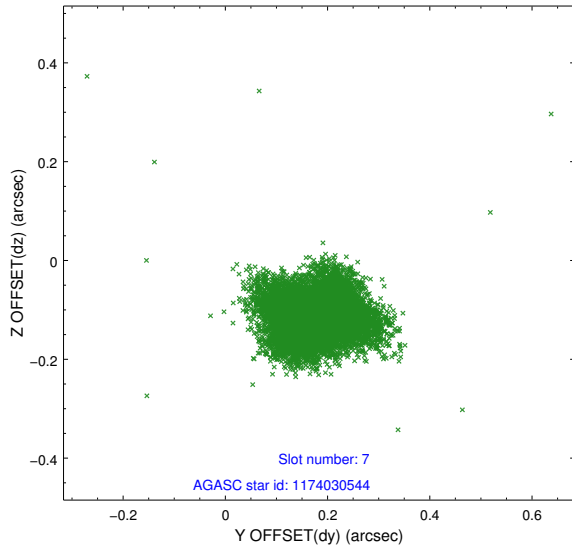
## 2.4.4 Slot 6



Time (s)

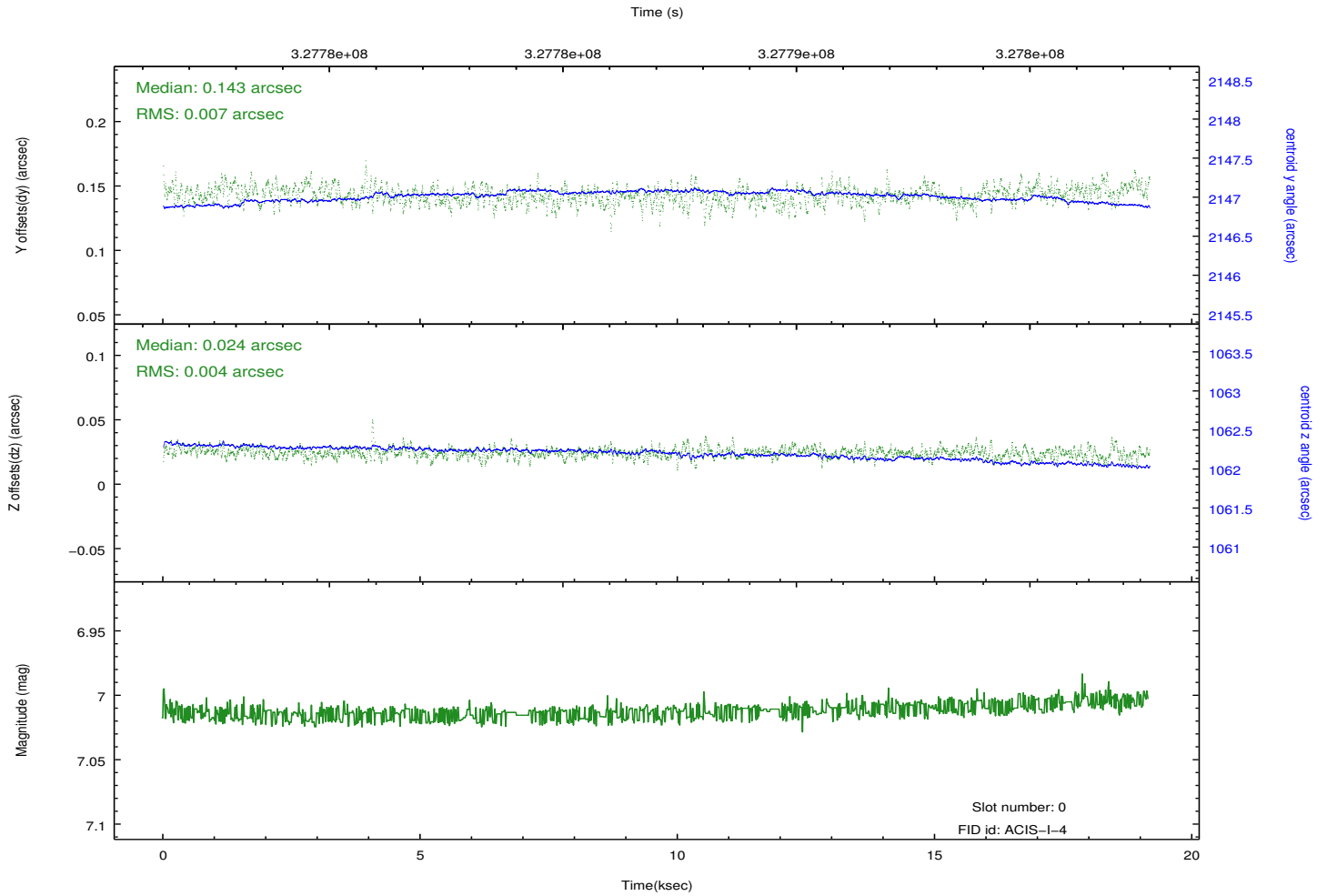
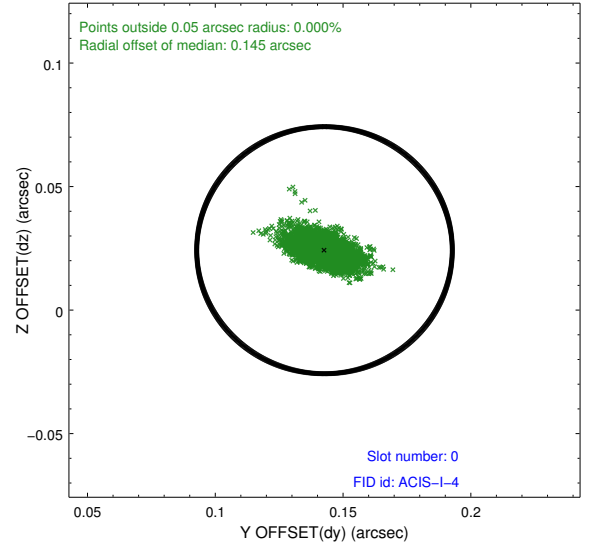
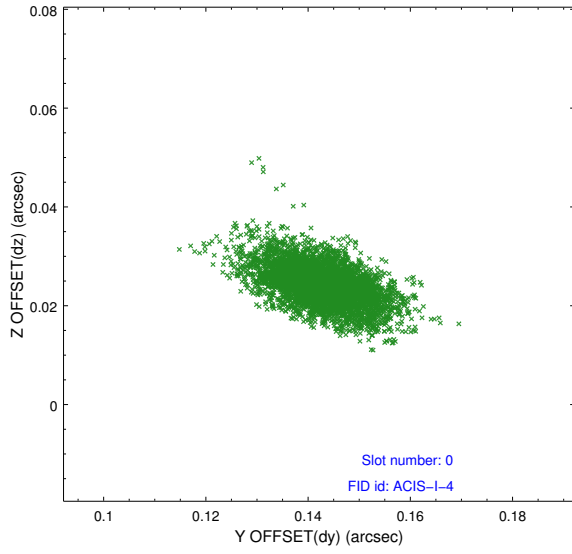


### 2.4.5 Slot 7

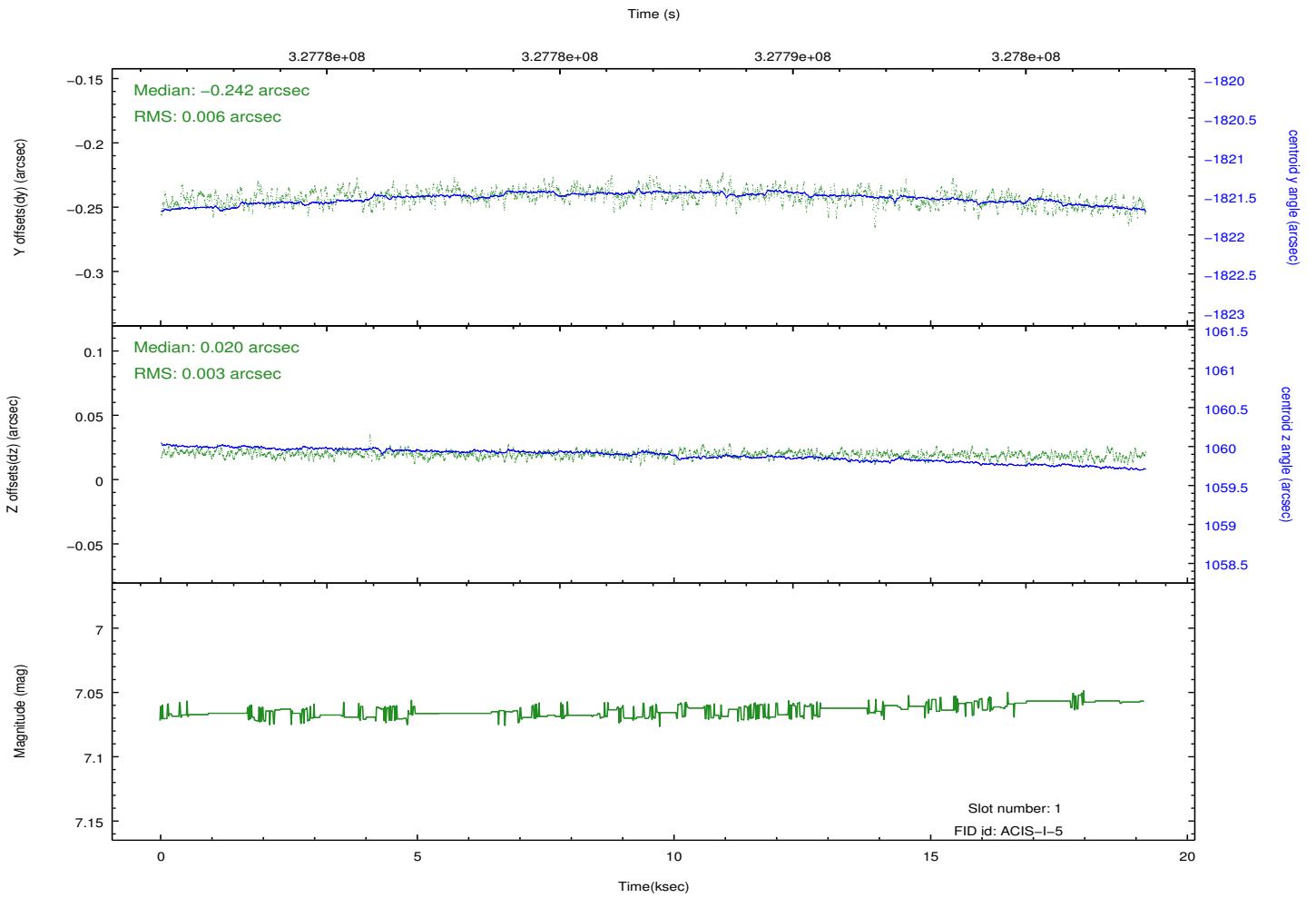
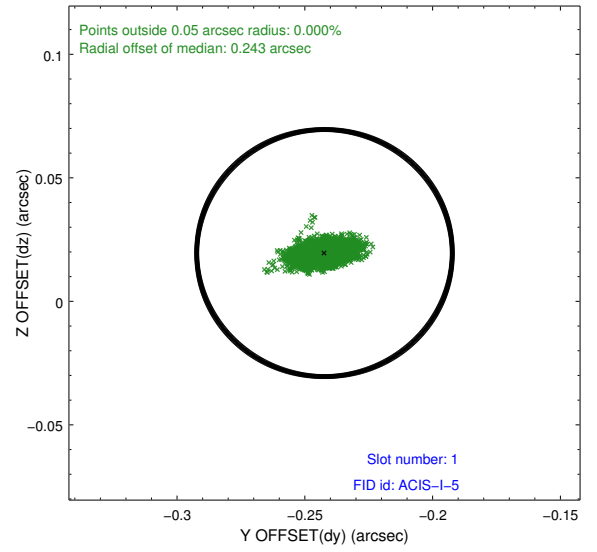
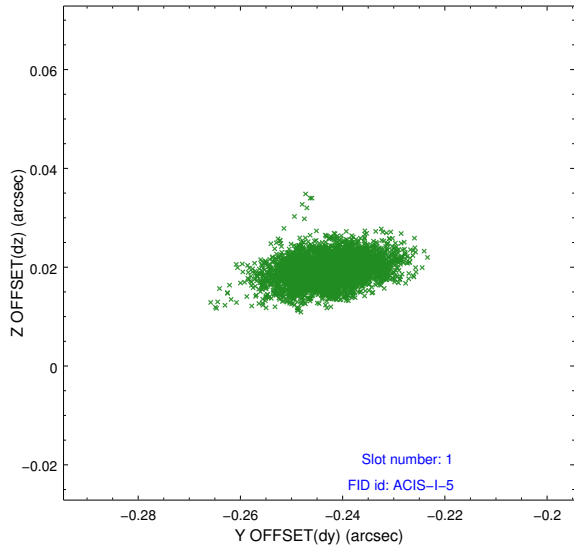


## 2.5 FID Slots

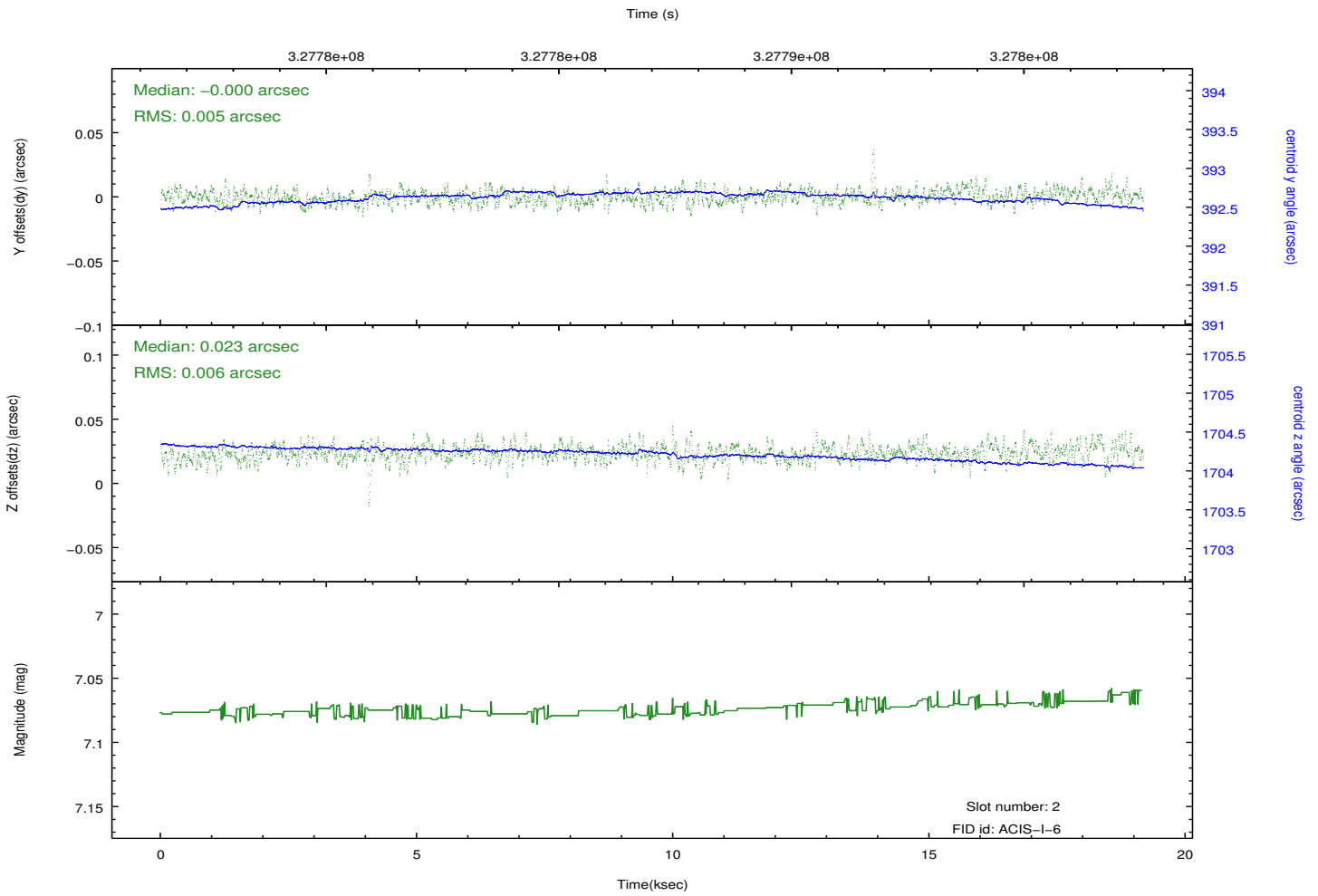
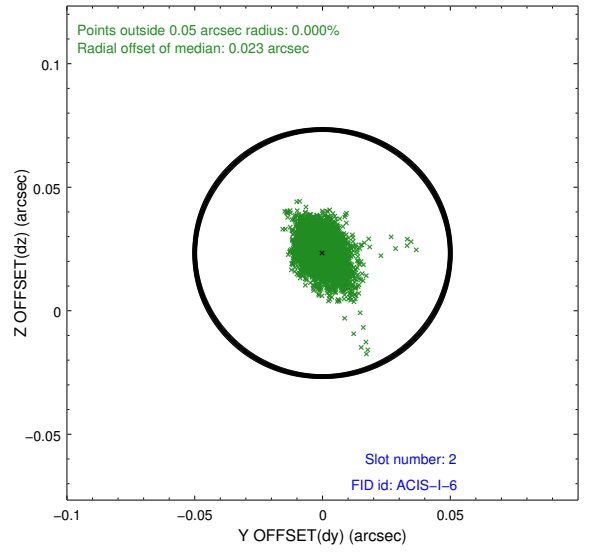
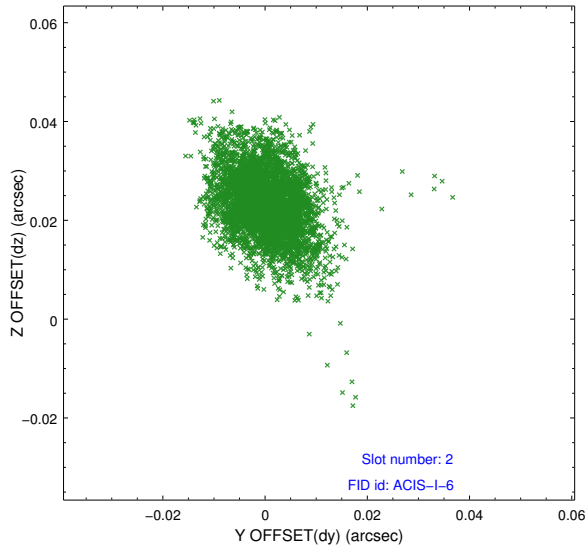
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.1103999

## A.2 Comments