

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5548 - L2 Version 3  
Chandra X-Ray Center

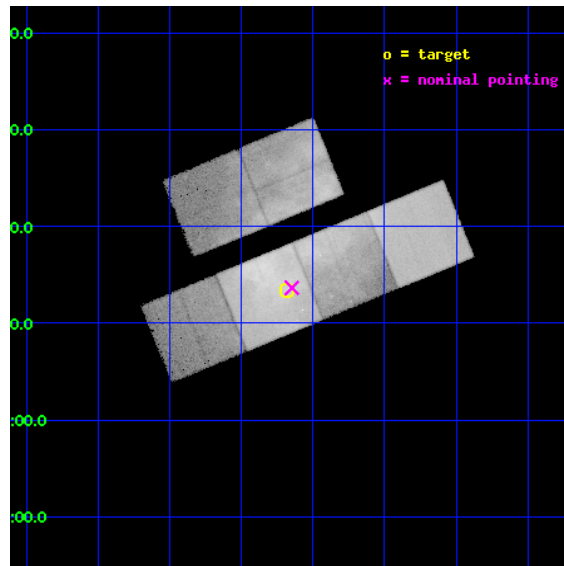
L2 Processing Date : Dec 25 2012

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# 1 Front

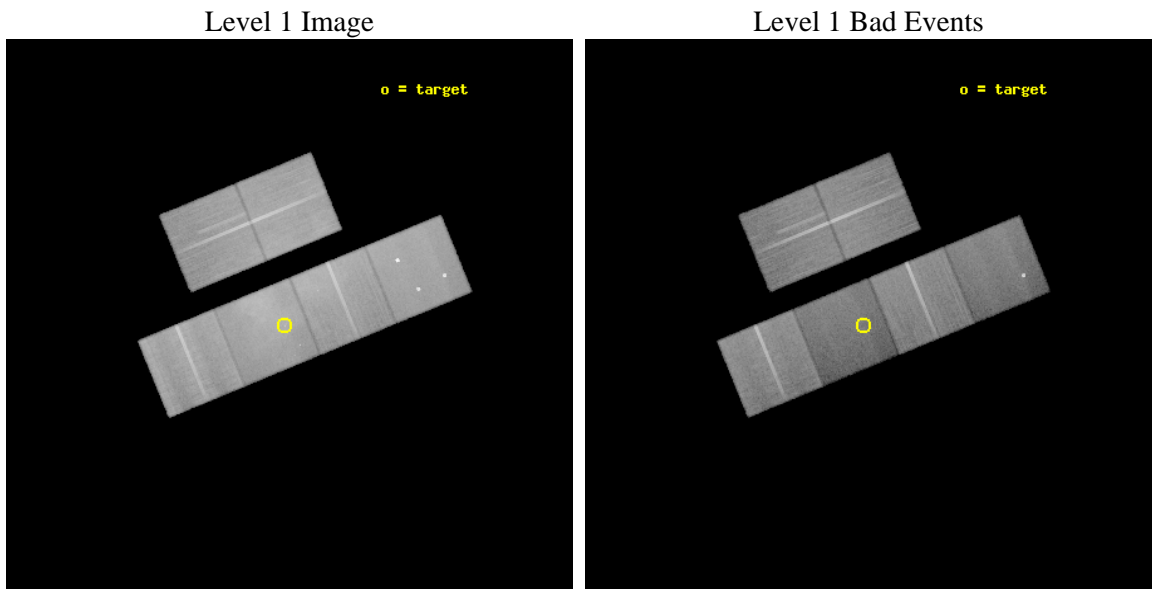
seq_num	500537	Sequence number
obs_id	5548	Observation id
title	The Structure and Spectrum of W44 s Pulsar Wind Nebula	Proposal ti
observer	Dr. Robert Petre	Principal investigator
object	W44 PWN	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	284.045	Observer's specified target RA [deg]
dec_targ	1.2225	Observer's specified target Dec [deg]
ra_nom	284.03683039401	Nominal RA [deg]
dec_nom	1.2276885530105	Nominal Dec [deg]
roll_nom	157.65680261927	Nominal Roll [deg]
revision	3	Processing version of data
ontime	52979.091760635	Sum of GTIs [s]
livetime	52308.238600583	Livetime [s]
ontime2	52972.65083006	Sum of GTIs [s]
ontime3	52966.004709482	Sum of GTIs [s]
ontime5	52979.050720632	Sum of GTIs [s]
ontime6	52975.768700331	Sum of GTIs [s]
ontime7	52979.091760635	Sum of GTIs [s]
ontime8	52972.445729584	Sum of GTIs [s]
l2events	804580	Number of level 2 events



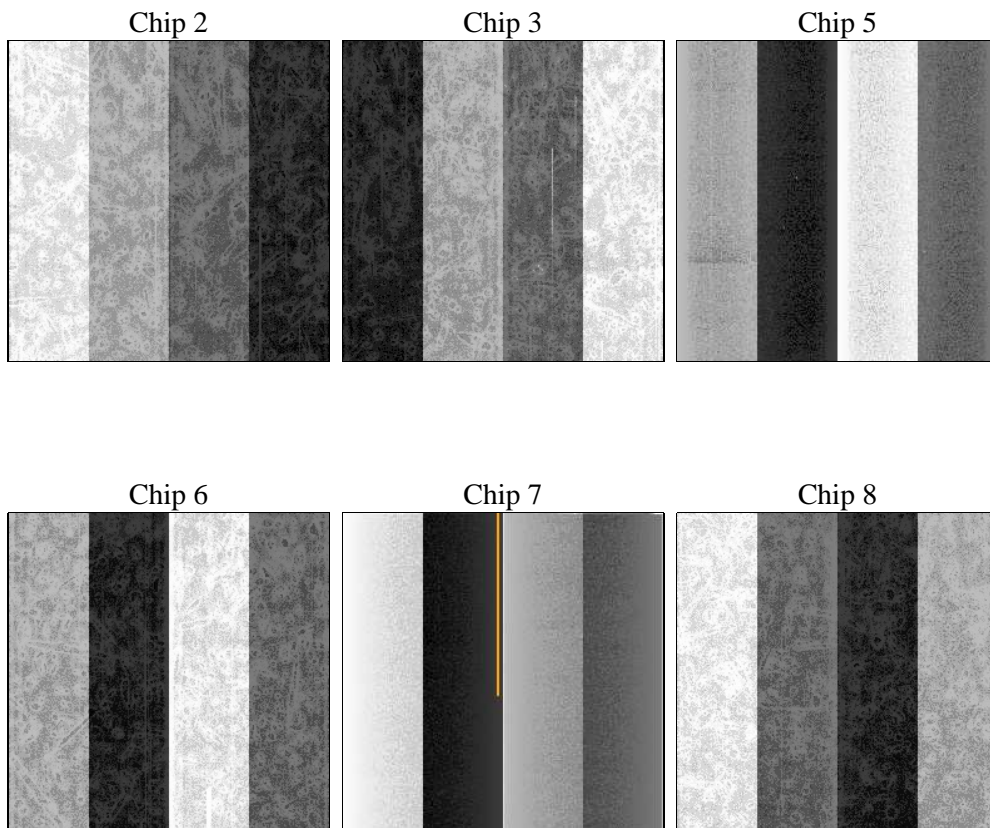
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	53000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	52979.091760635	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime2	52972.65083006	Sum of GTIs [s]
date	2012-12-25T08:56:52	Date and time of file creation	ontime3	52966.004709482	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	52979.050720632	Sum of GTIs [s]
			ontime6	52975.768700331	Sum of GTIs [s]
			ontime7	52979.091760635	Sum of GTIs [s]
			ontime8	52972.445729584	Sum of GTIs [s]
			l1events	2447629	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	443736	332438	407814	431442	437733	394466	grade 0 events	96184	27143	33343	103180	51079	29388
rejected events	310232	283471	191591	289388	160147	297180		21%	8%	8%	23%	11%	7%
rejected %	69%	85%	46%	67%	36%	75%	grade 1 events	571	262	338	562	338	277
								0%	0%	0%	0%	0%	0%
							grade 2 events	17314	8187	60136	17603	64550	22544
								3%	2%	14%	4%	14%	5%
							grade 3 events	6468	3902	8729	6568	28957	10391
								1%	1%	2%	1%	6%	2%
							grade 4 events	6504	3979	8329	6540	29103	9737
								1%	1%	2%	1%	6%	2%
							grade 5 events	9483	10756	33251	11410	34205	16603
								2%	3%	8%	2%	7%	4%
							grade 6 events	7053	5766	105718	8176	103932	25235
								1%	1%	25%	1%	23%	6%
							grade 7 events	300159	272443	157970	277403	125569	280291
								67%	81%	38%	64%	28%	71%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	284.063776	284.0368303940059	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.231681	1.227688553010459	Alternating exposures requested	N	N
[deg] Pointing Roll	157.499600	157.6568026192745	[s] Primary exposure time	0.000000	3.2
[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)	236111531.184000	236110505.32627			
Observation start date	2005-06-25T18:31:07	2005-06-25T18:15:05			
[s] Observation end time (MET)	236164531.184000	236165899.9163			
Observation end date	2005-06-26T09:14:27	2005-06-26T09:38:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect

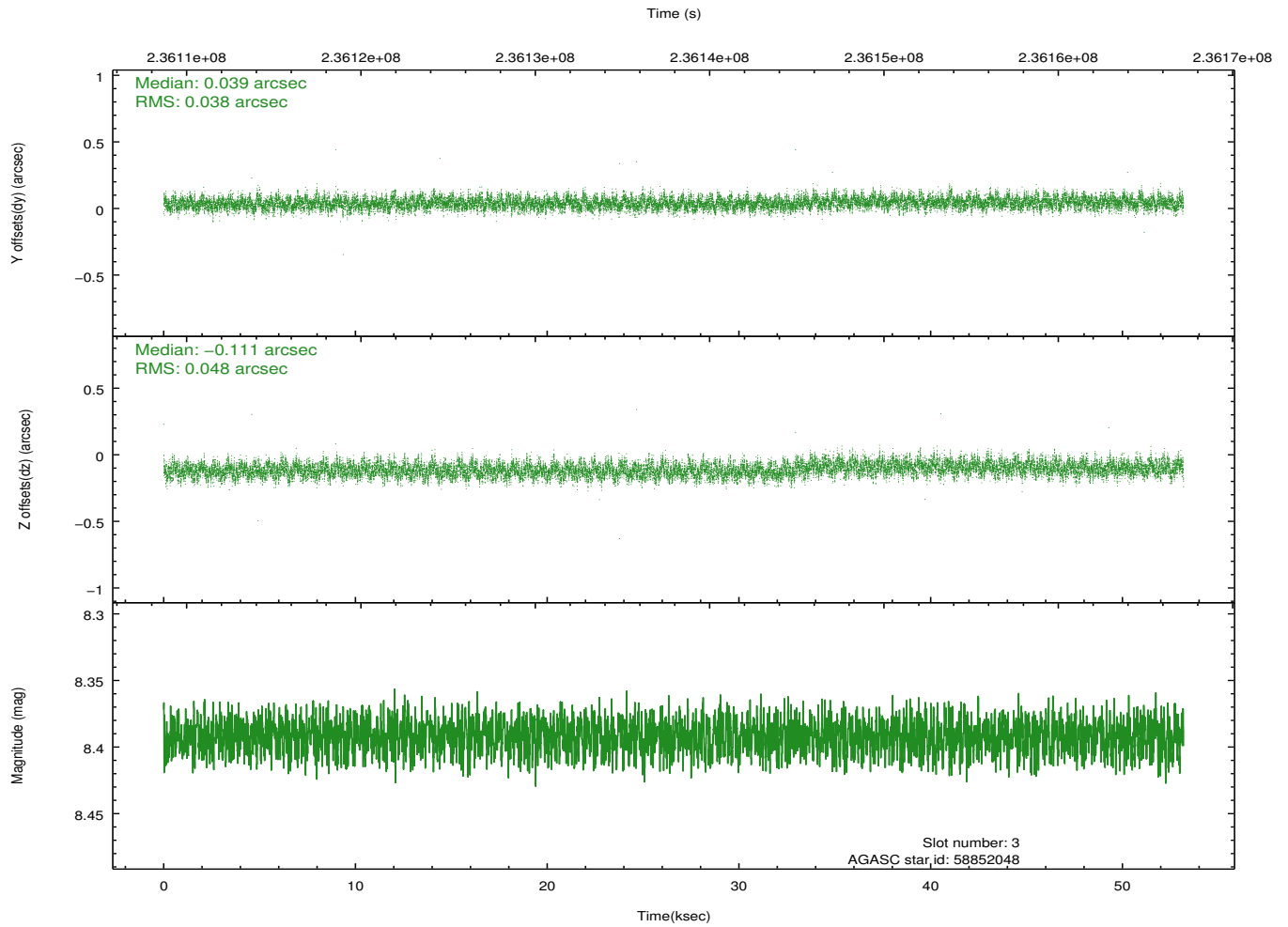
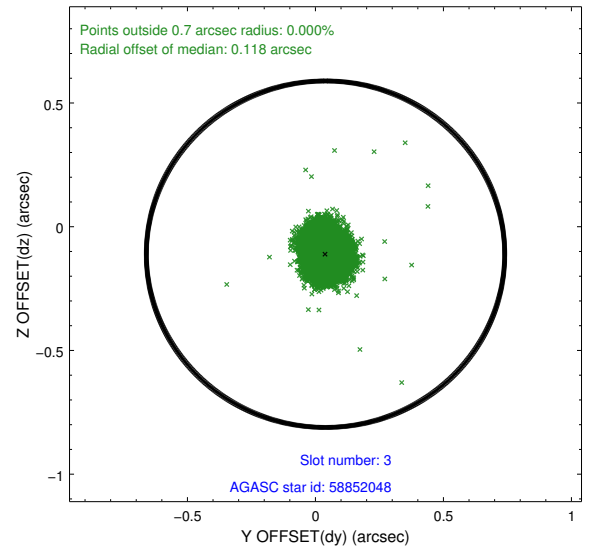
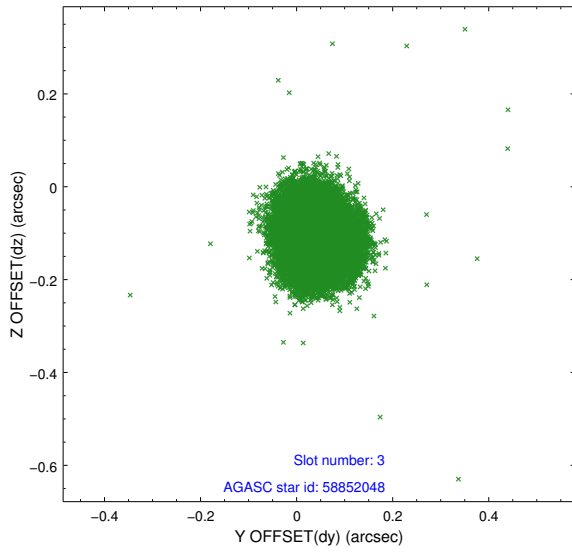


### Slot Statistics

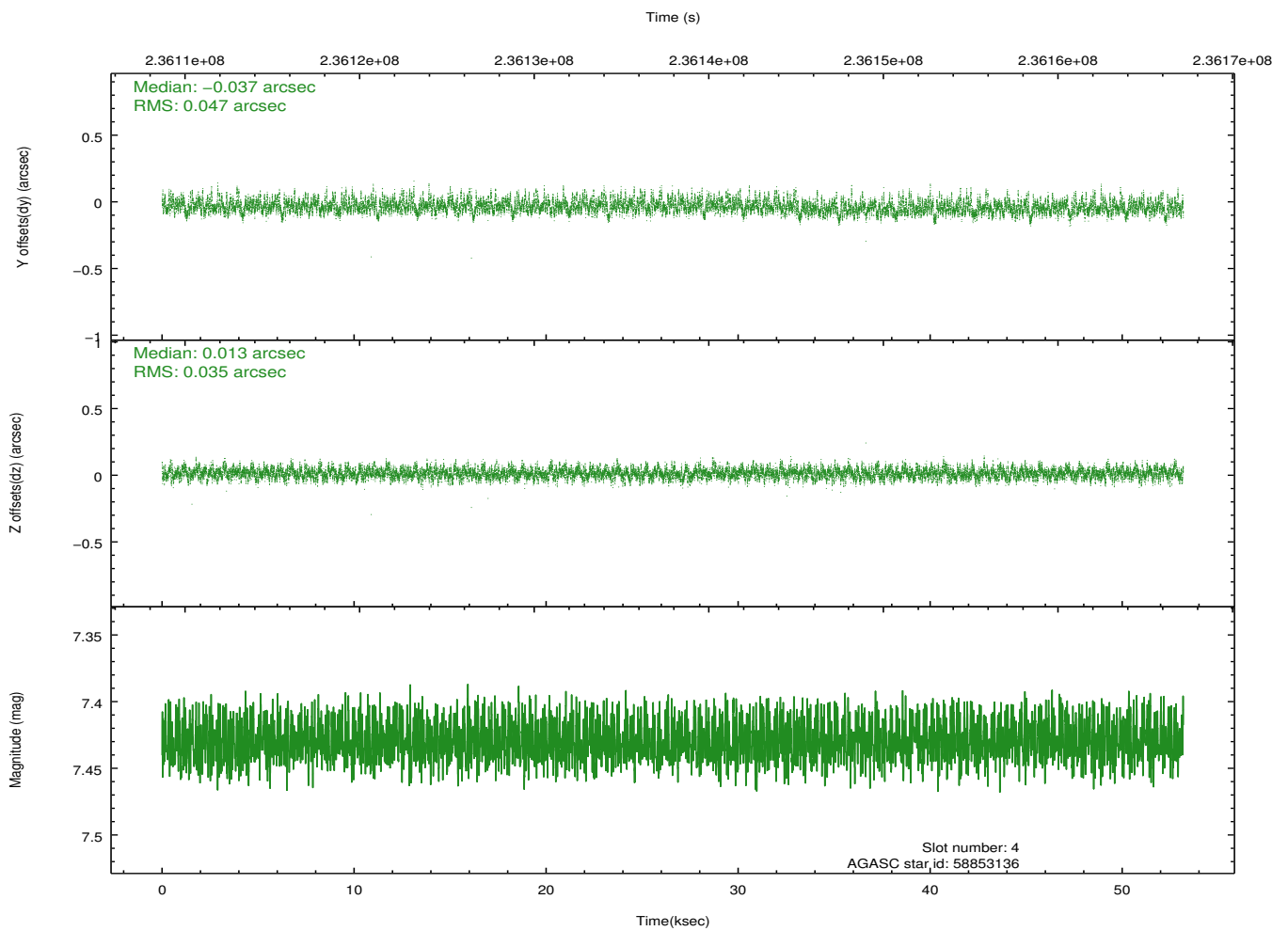
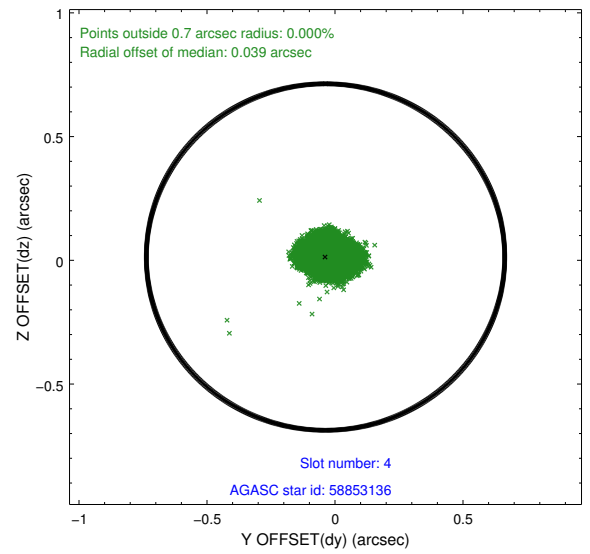
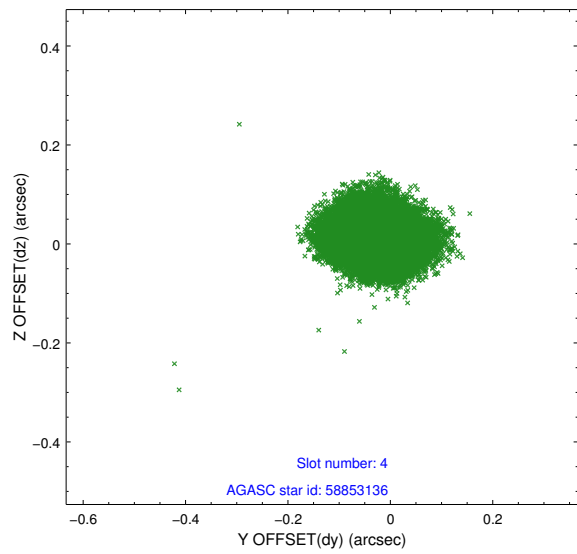
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	12972	-0.050	-0.025	0.018	0.027	0.000000	0.000000	-760.15	-1731.29
1	FID	ACIS-S-4	7.21	12972	0.108	0.031	0.012	0.018	0.000000	0.000000	2153.26	177.34
2	FID	ACIS-S-5	7.23	12971	-0.085	0.004	0.013	0.019	0.000000	0.000000	-1813.09	170.87
3	GUIDE	58852048	8.39	25936	0.039	-0.111	0.065	0.104	283.366398	0.870285	1821.65	2162.66
4	GUIDE	58853136	7.43	25940	-0.037	0.013	0.062	0.101	284.607098	1.198128	-1852.48	-636.77
5	GUIDE	58853800	7.96	25941	0.041	-0.027	0.060	0.096	284.849220	1.406285	-2370.57	-1662.96
6	GUIDE	59377960	7.68	25937	0.040	0.029	0.075	0.132	283.627467	1.897490	2367.92	-1613.25
7	GUIDE	59376240	7.29	25942	-0.084	0.094	0.071	0.113	283.651753	1.887471	2273.61	-1613.58

## 2.4 Star Slots

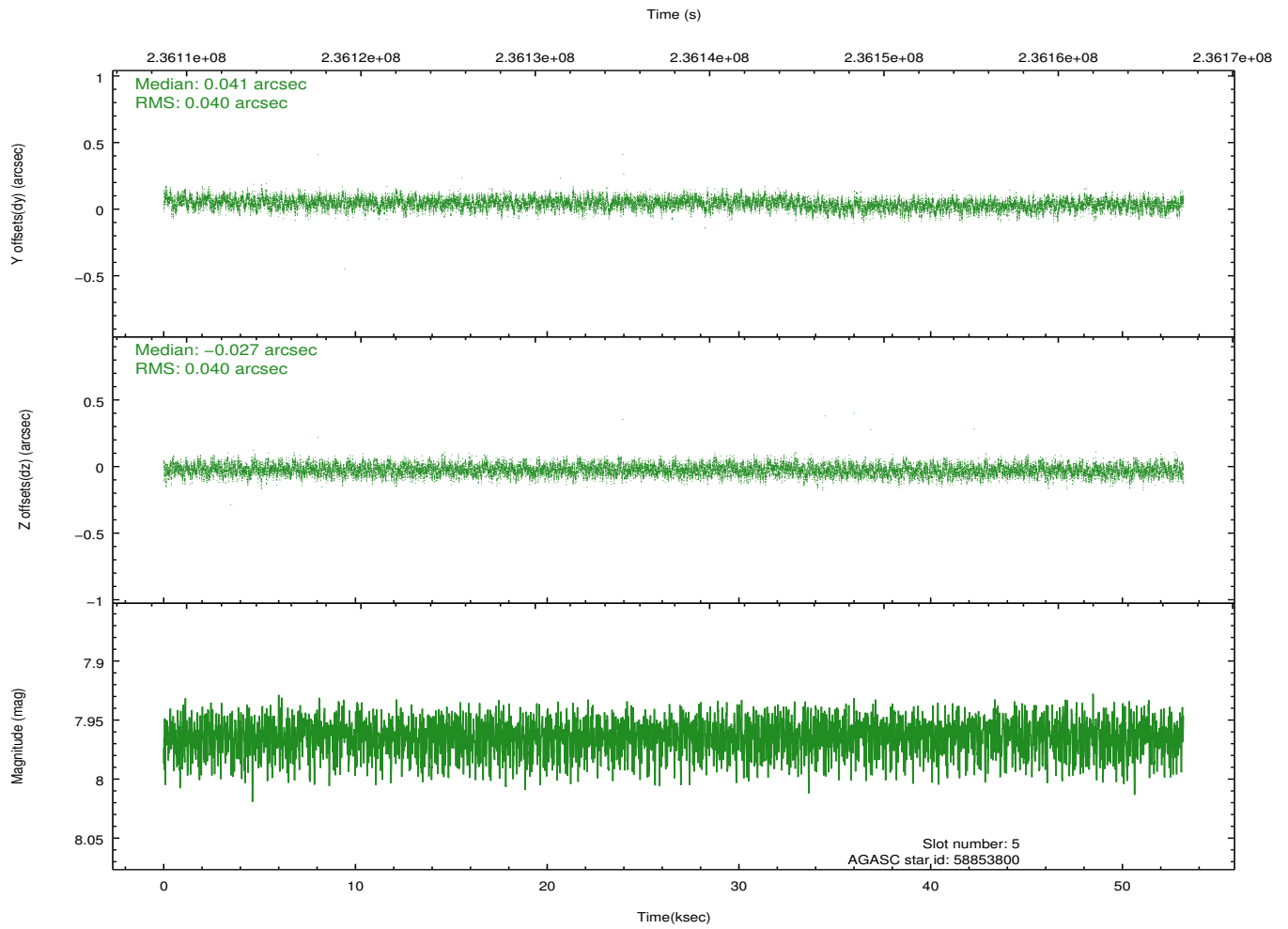
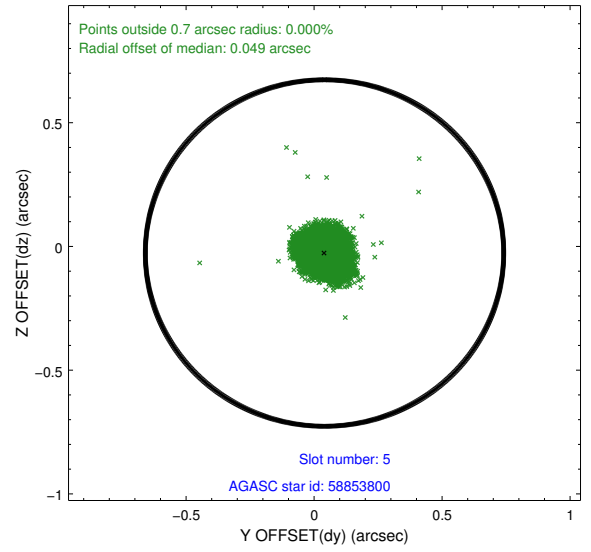
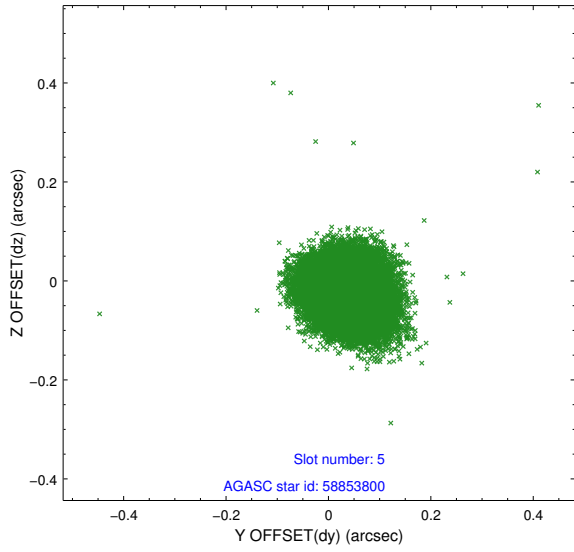
### 2.4.1 Slot 3



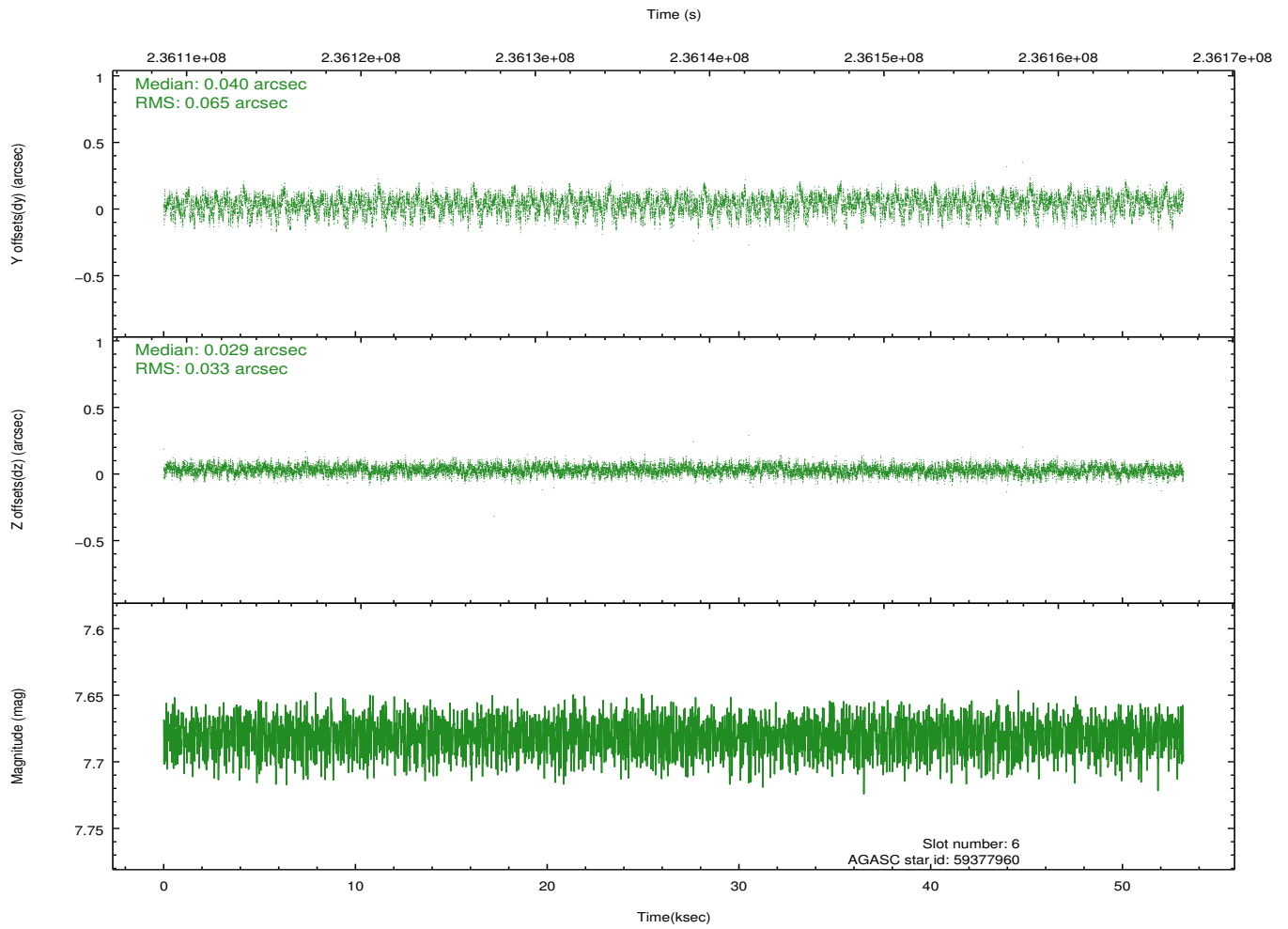
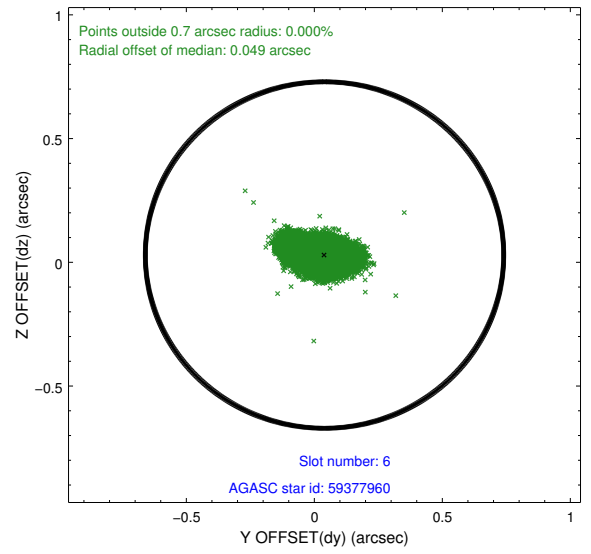
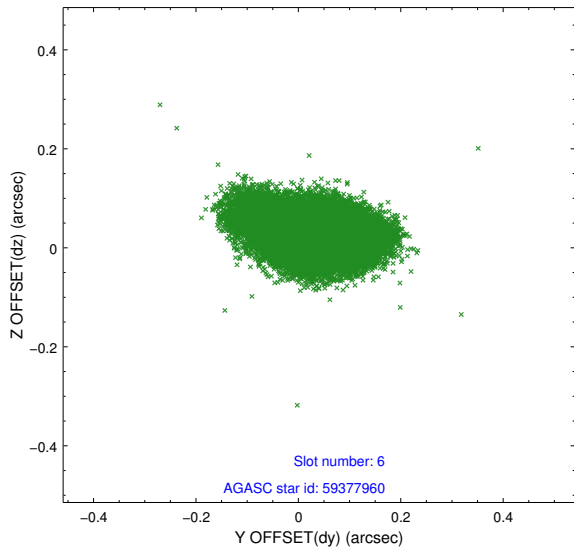
## 2.4.2 Slot 4



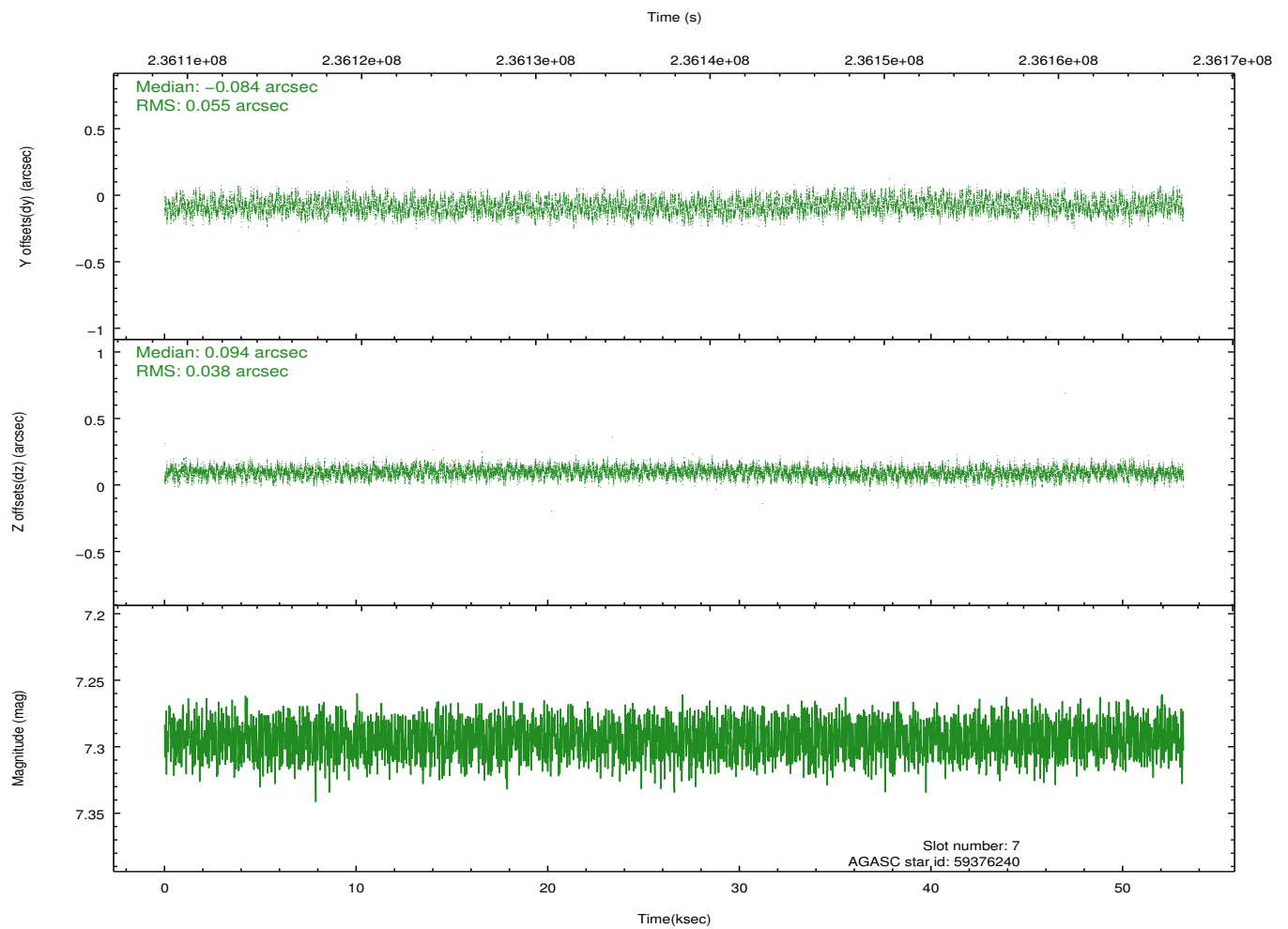
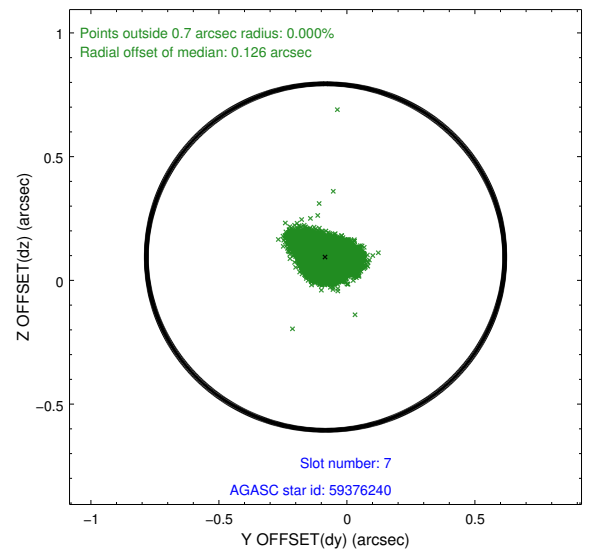
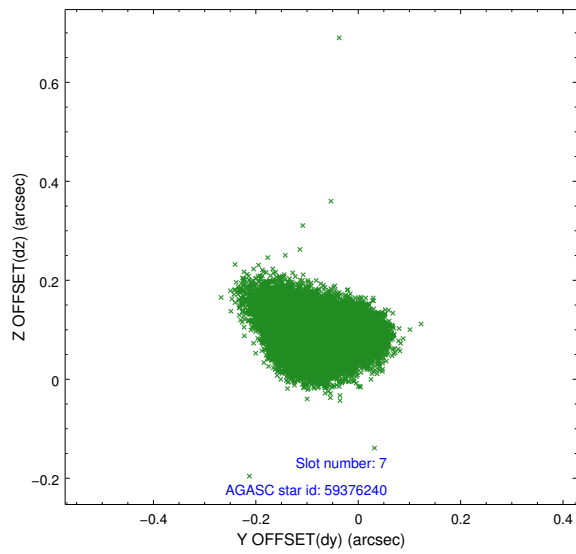
### 2.4.3 Slot 5



### 2.4.4 Slot 6

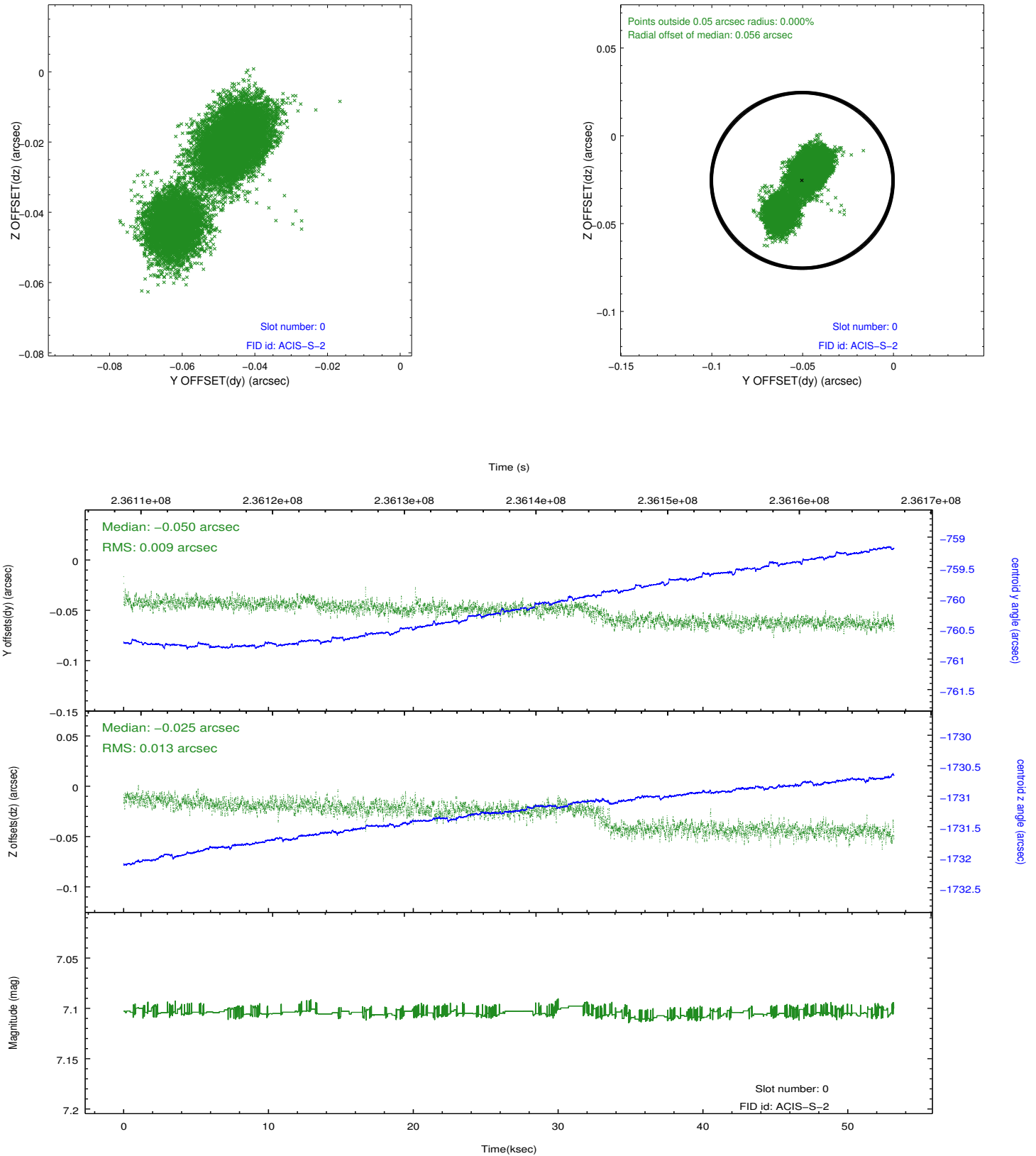


## 2.4.5 Slot 7

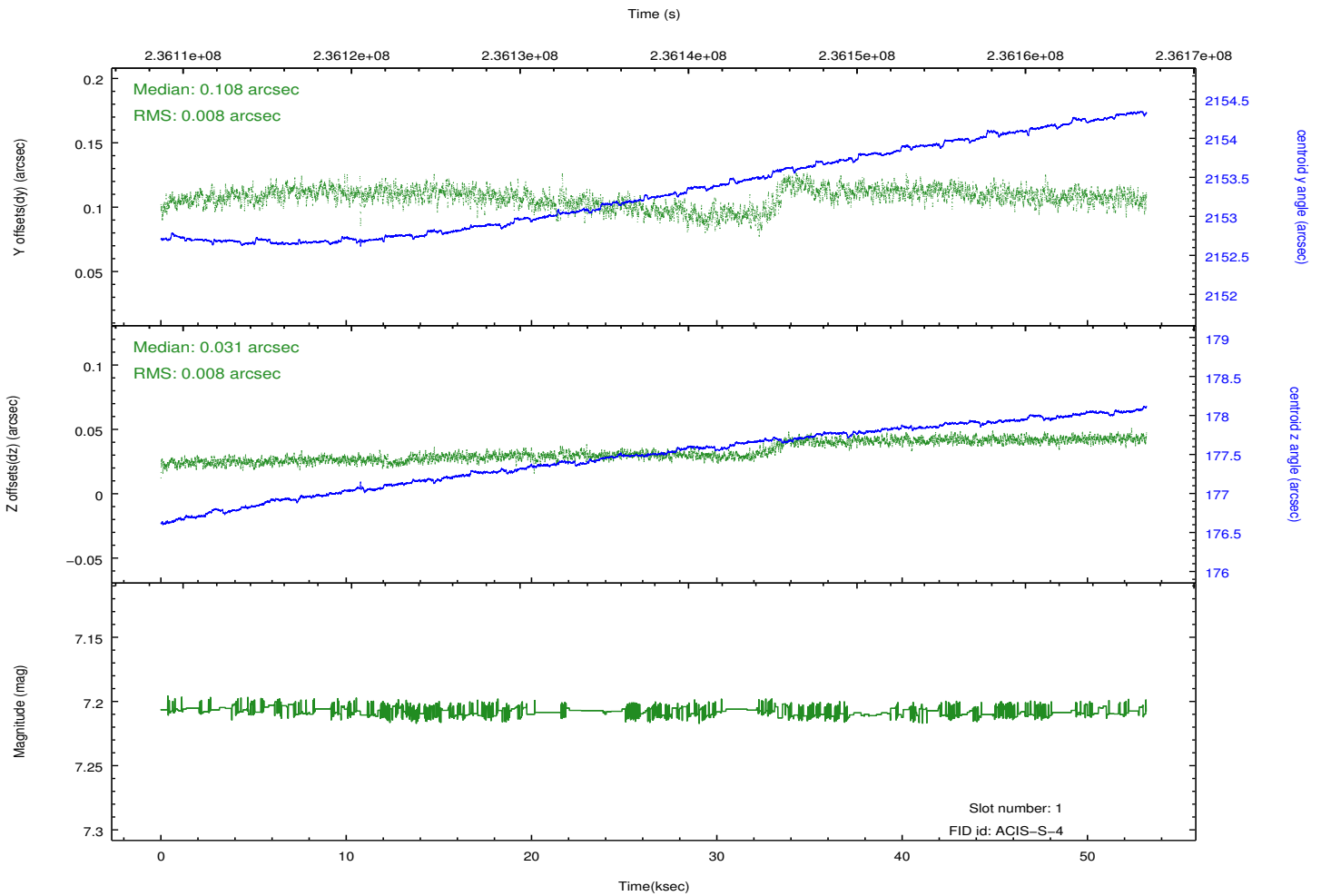
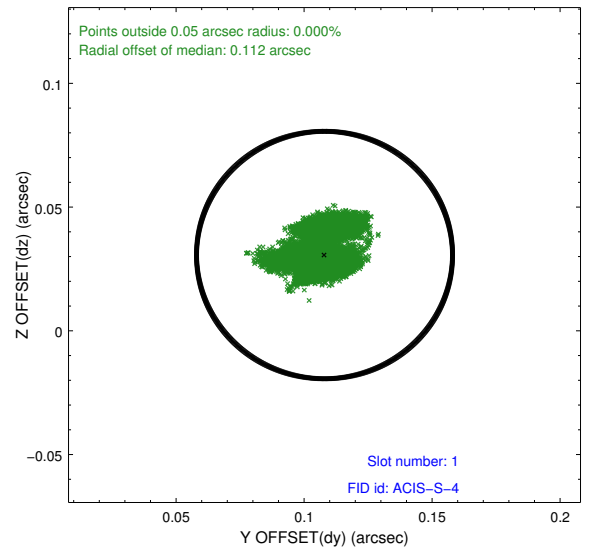
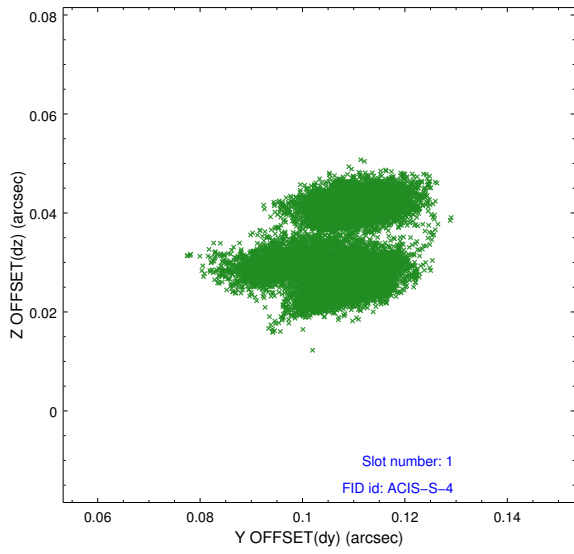


## 2.5 FID Slots

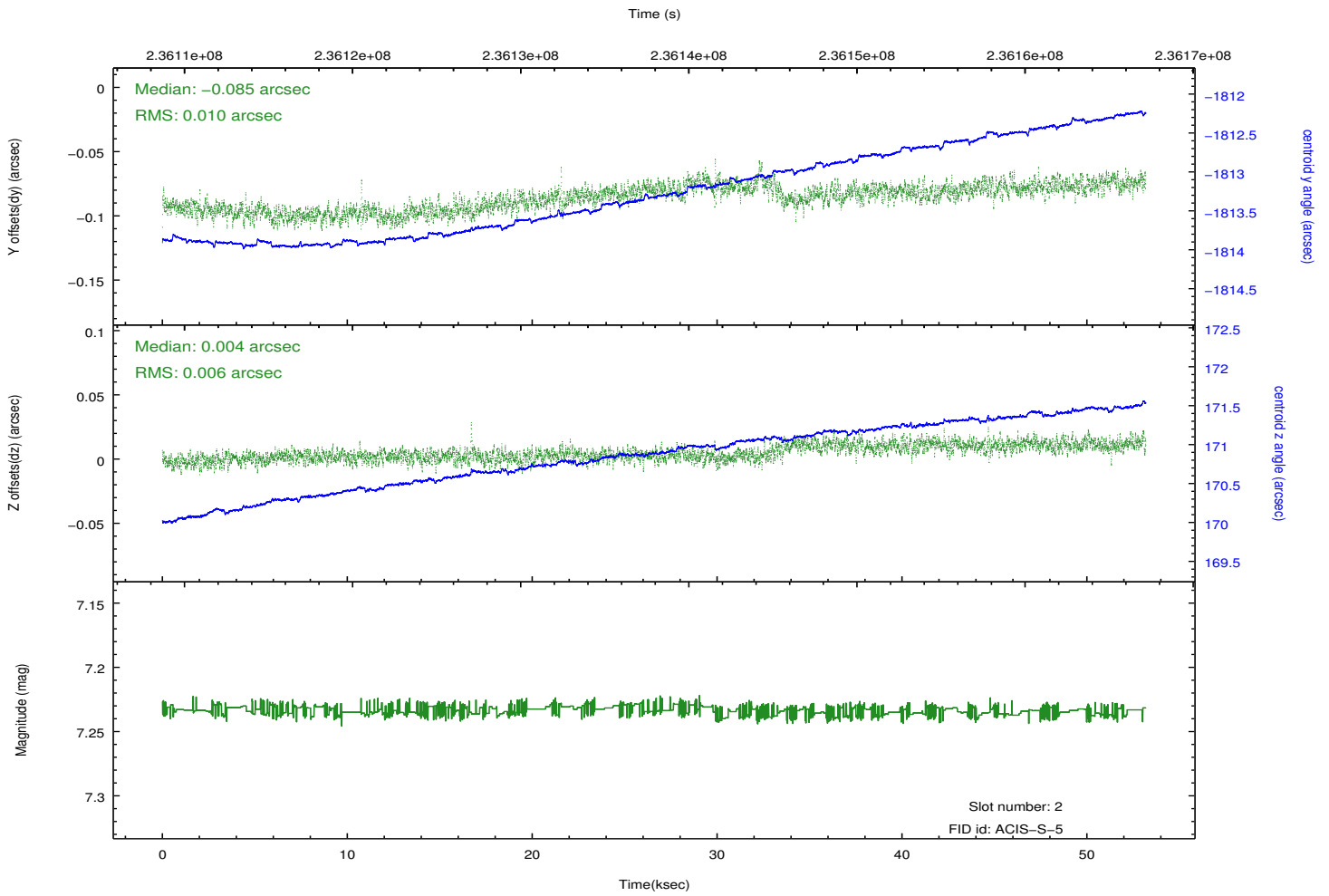
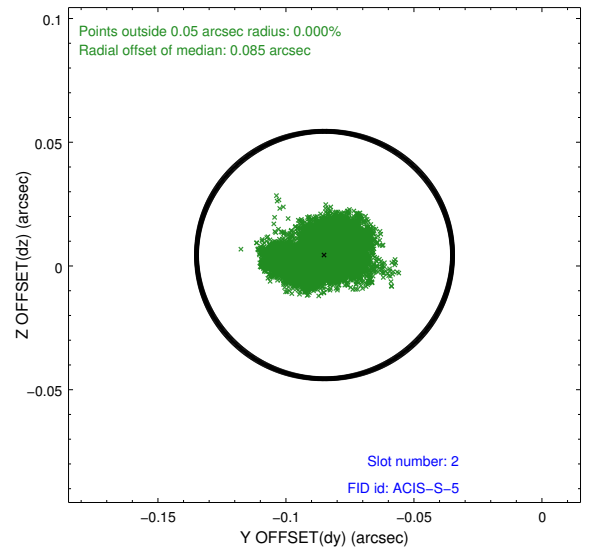
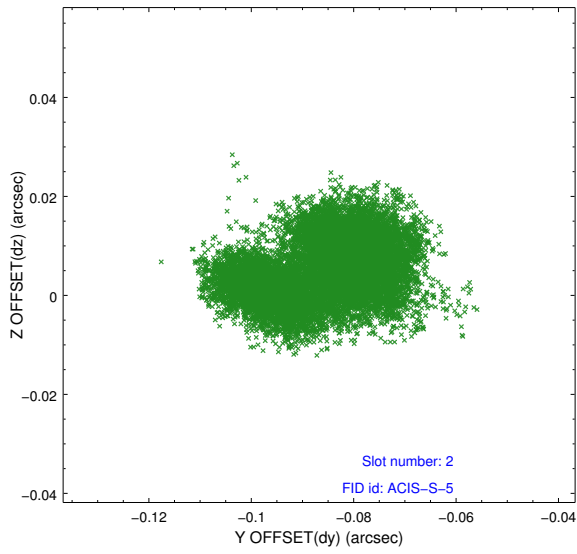
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	52.97919

## A.2 Comments

Roll preference met.