

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10129 - L2 Version 2  
Chandra X-Ray Center

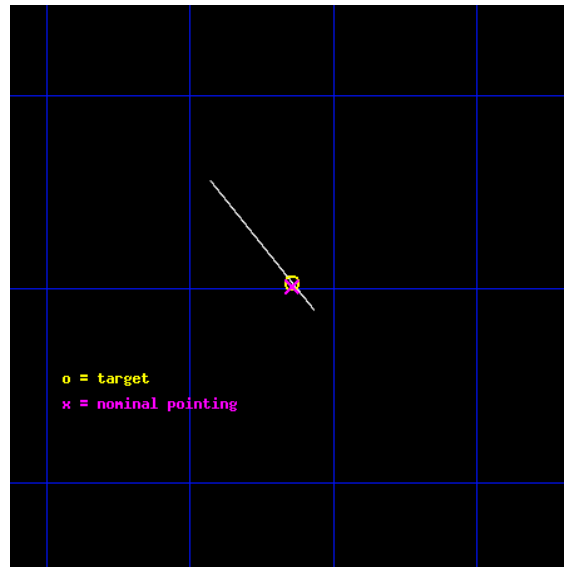
L2 Processing Date : Jun 11 2012

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# 1 Front

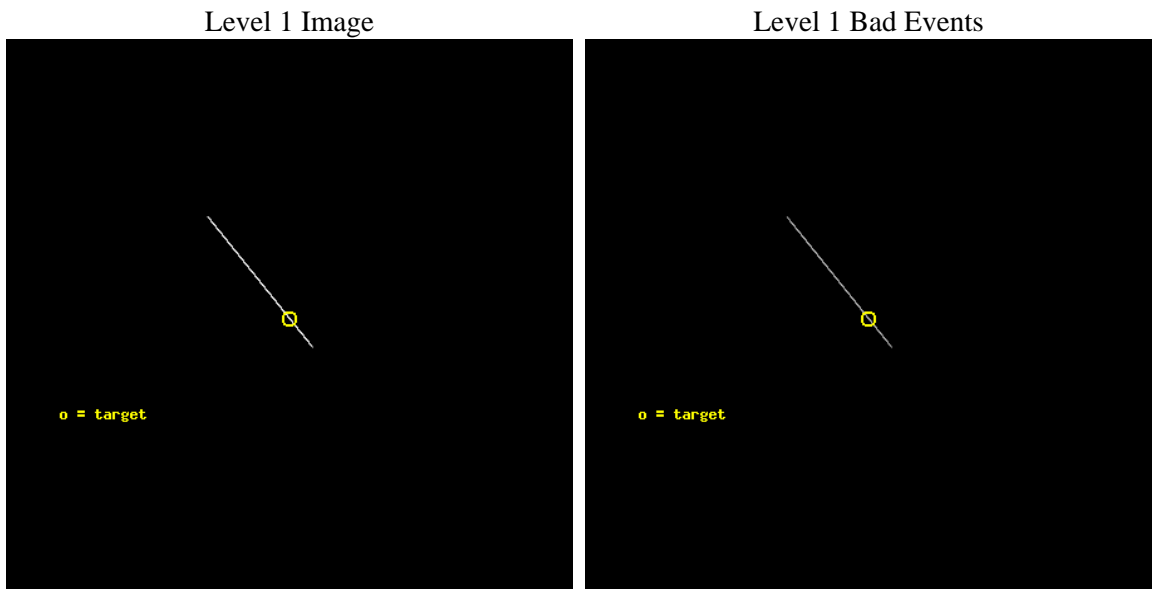
seq_num	501056	Sequence number
obs_id	10129	Observation id
title	The Weakly Magnetized Pulsar in Kes 79	Proposal title
observer	Prof. Jules Halpern	Principal investigator
object	PSR J1852+0040	Source name
ra_targ	283.160833	Observer's specified target RA [deg]
dec_targ	0.672167	Observer's specified target Dec [deg]
ra_nom	283.16127382539	Nominal RA [deg]
dec_nom	0.66864759918959	Nominal Dec [deg]
roll_nom	230.87712568067	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32181.5	Sum of GTIs [s]
liveltime	32055.791015625	Livetime [s]
ontime7	32181.5	Sum of GTIs [s]
l2events	215797	Number of level 2 events



## 2 OBI

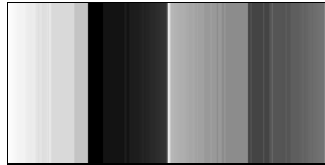
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	32181.5	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	32181.5	Sum of GTIs [s]
date	2012-06-11T01:54:44	Date and time of file creation	l1events	264281	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

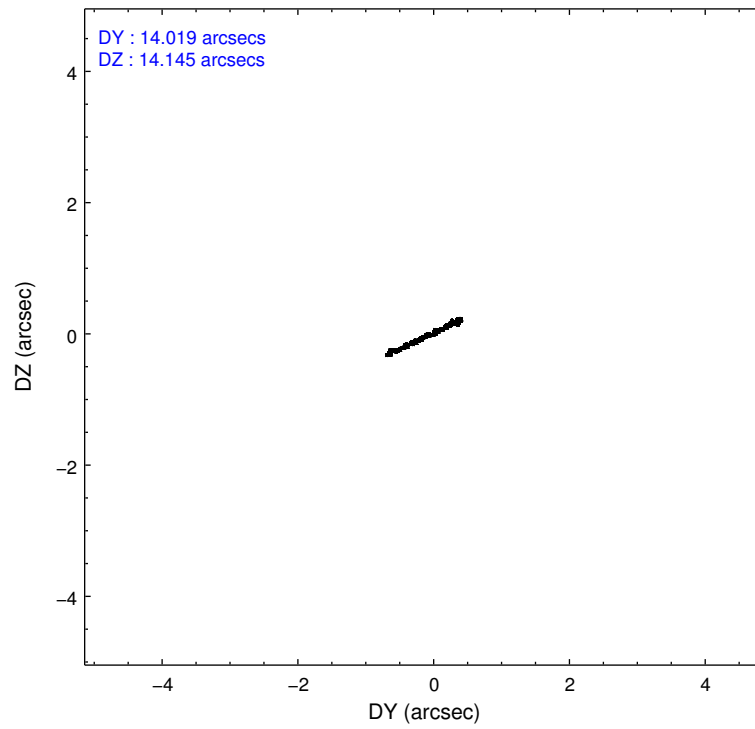
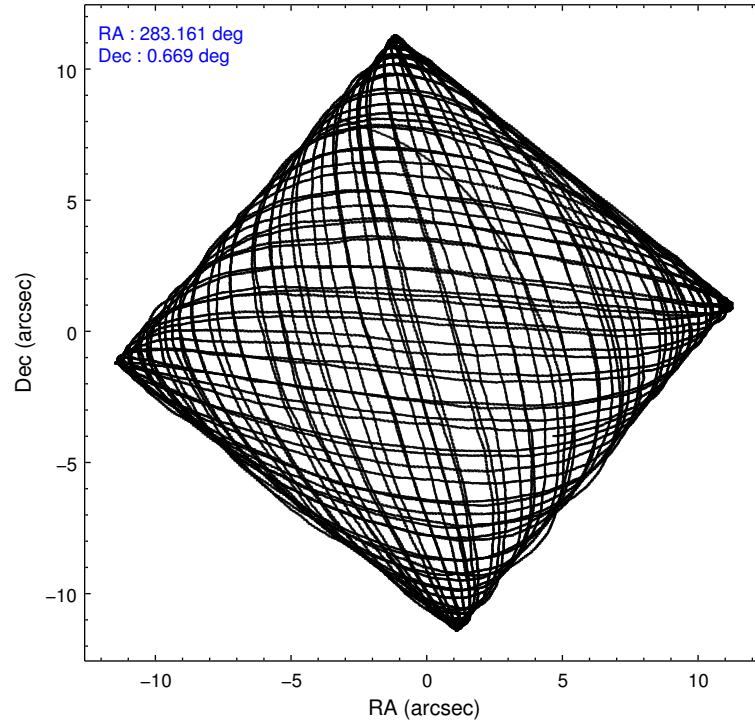
	<b>ccd 7</b>
level 1 events	264281
rejected events	40423
rejected %	15%

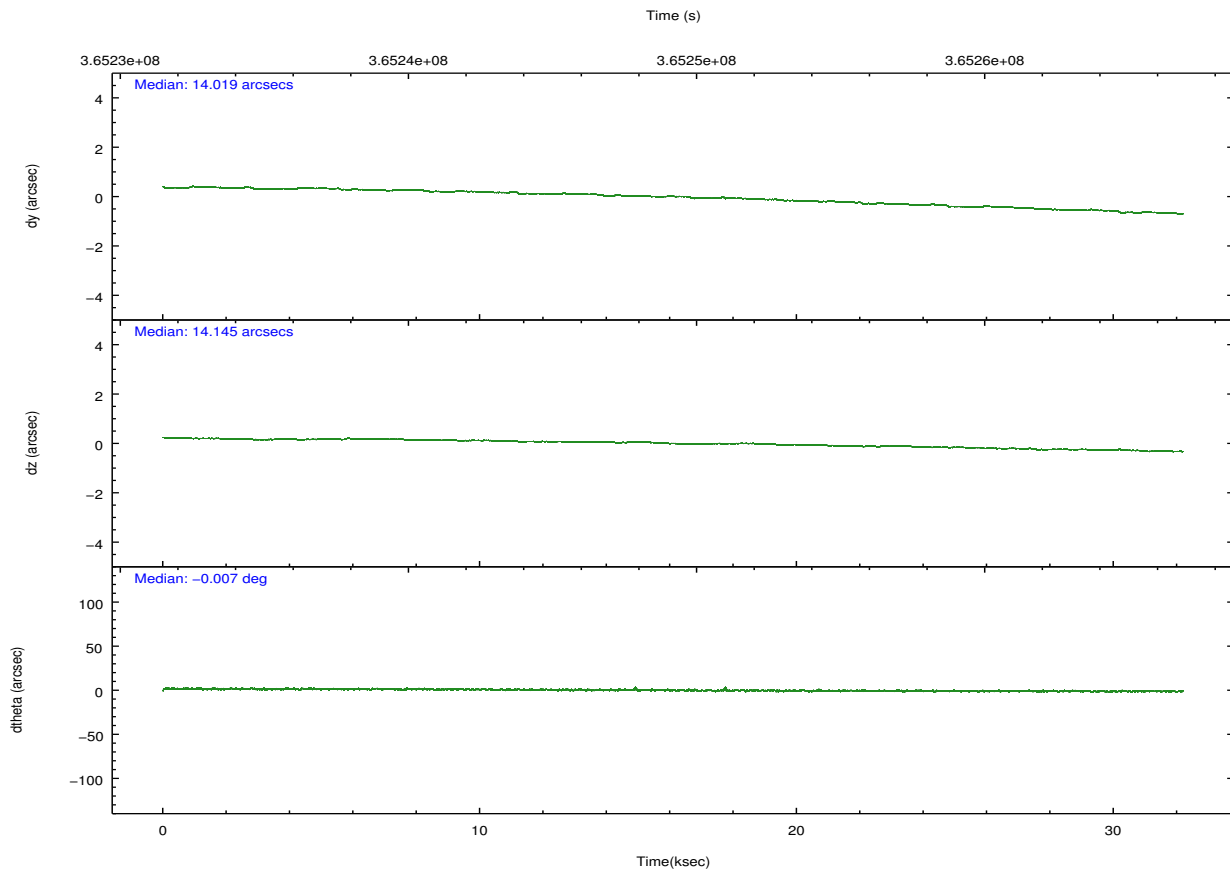
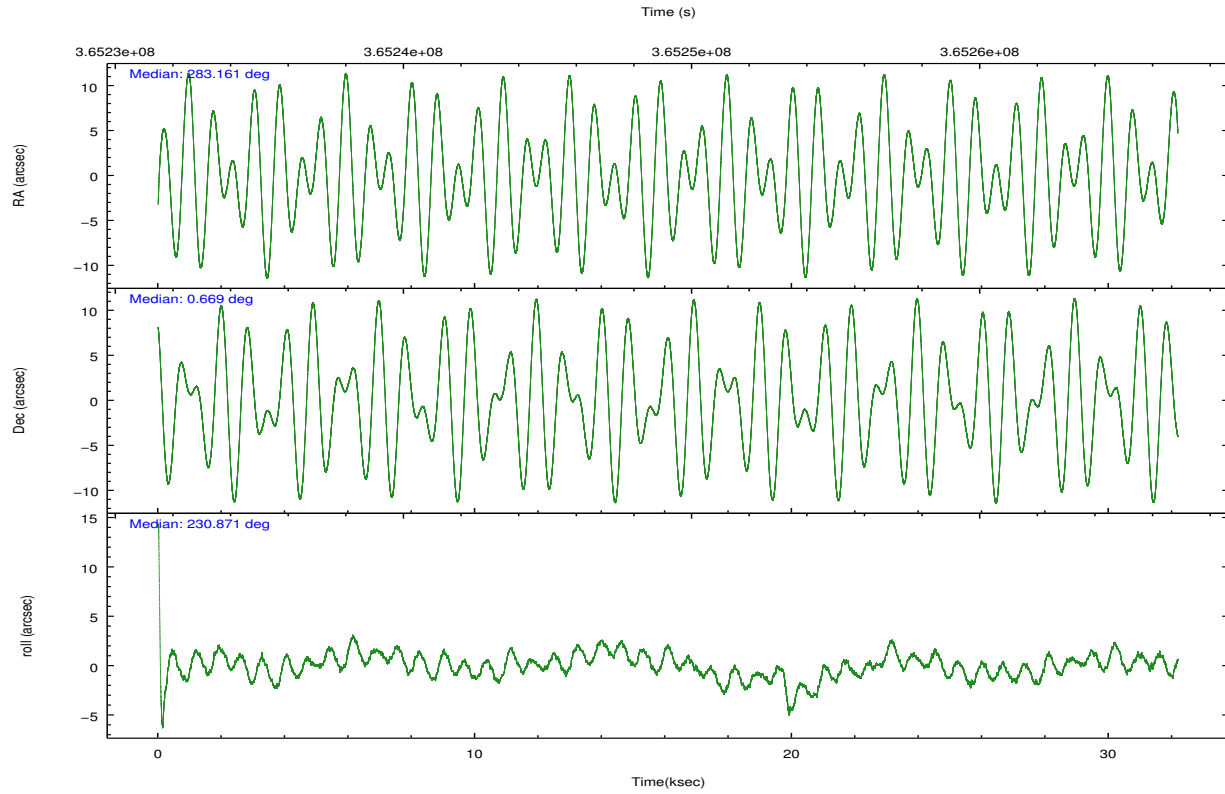
	<b>ccd 7</b>
grade 0 events	20161
	7%
grade 1 events	519
	0%
grade 2 events	62141
	23%
grade 3 events	12905
	4%
grade 4 events	12849
	4%
grade 5 events	35670
	13%
grade 6 events	120036
	45%
grade 7 events	0
	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	283.165231	283.1612738253934	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.695706	0.6686475991895863	Alternating exposures requested	N	N
[deg] Pointing Roll	230.720444	230.8771256806705	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	364780866.184000	364780866.184000			
[s] Window stop time (MET)	366681606.184000	366681606.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-180.462523	-180.4674950847706			
[mm] SIM translation stage offset	-9.67	-9.665027498237237			
[s] Observation start time (MET)	365233288.184000	365232400.14721			
Observation start date	2009-07-29T05:40:22	2009-07-29T05:26:40			
[s] Observation end time (MET)	365265288.184000	365266263.58641			
Observation end date	2009-07-29T14:33:42	2009-07-29T14:51:03			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



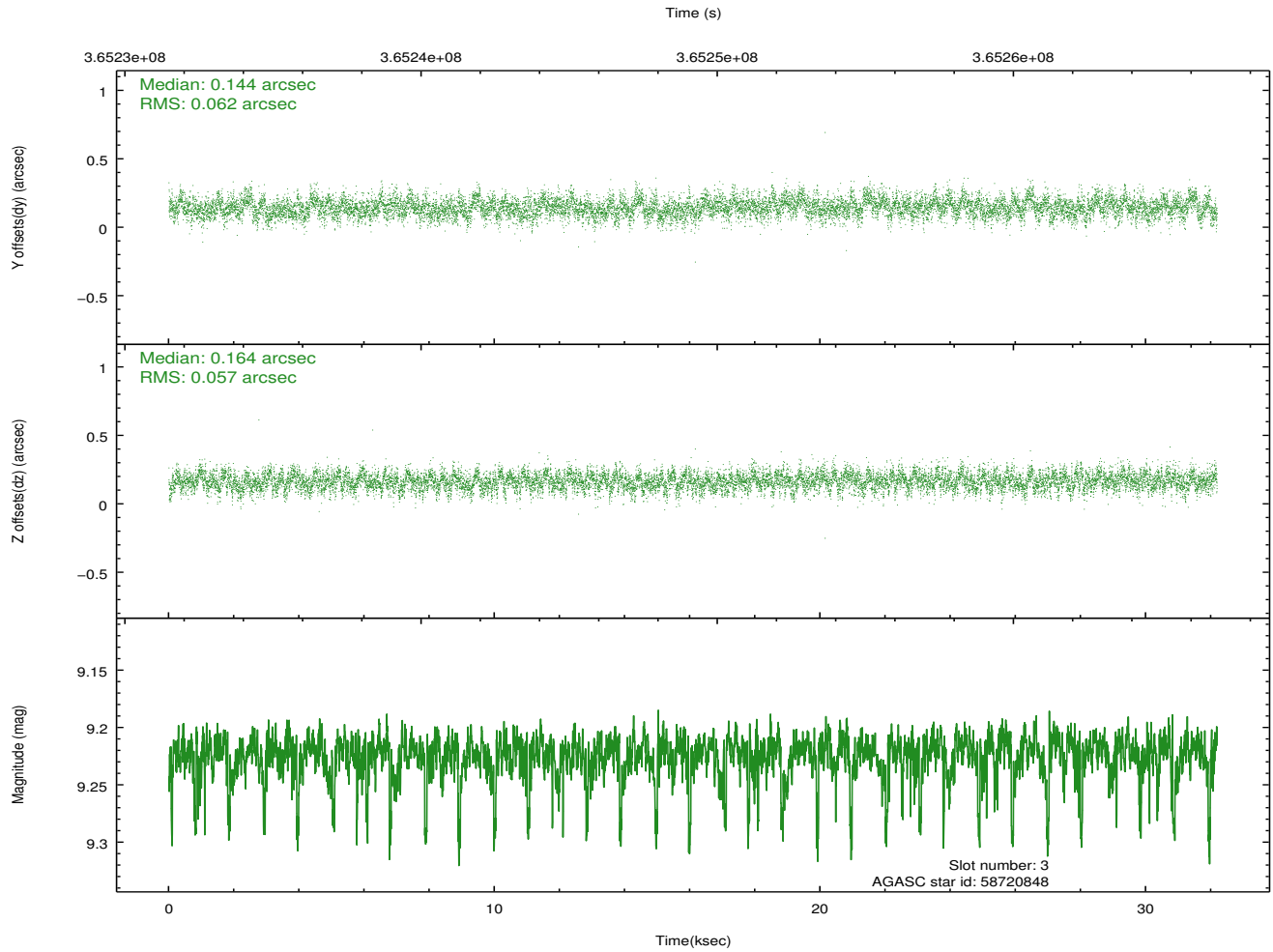
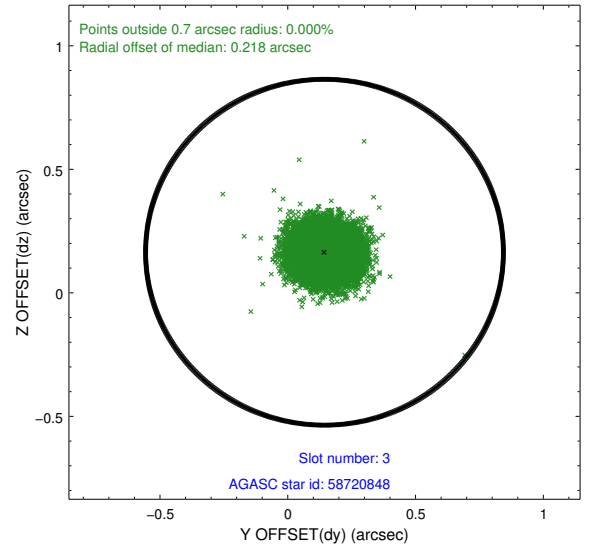
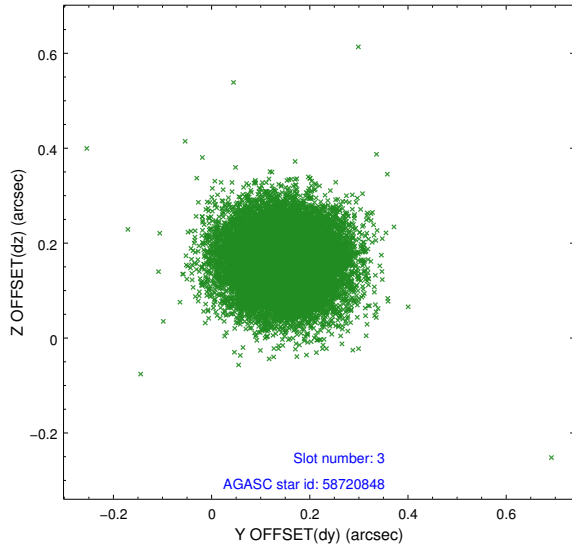


### Slot Statistics

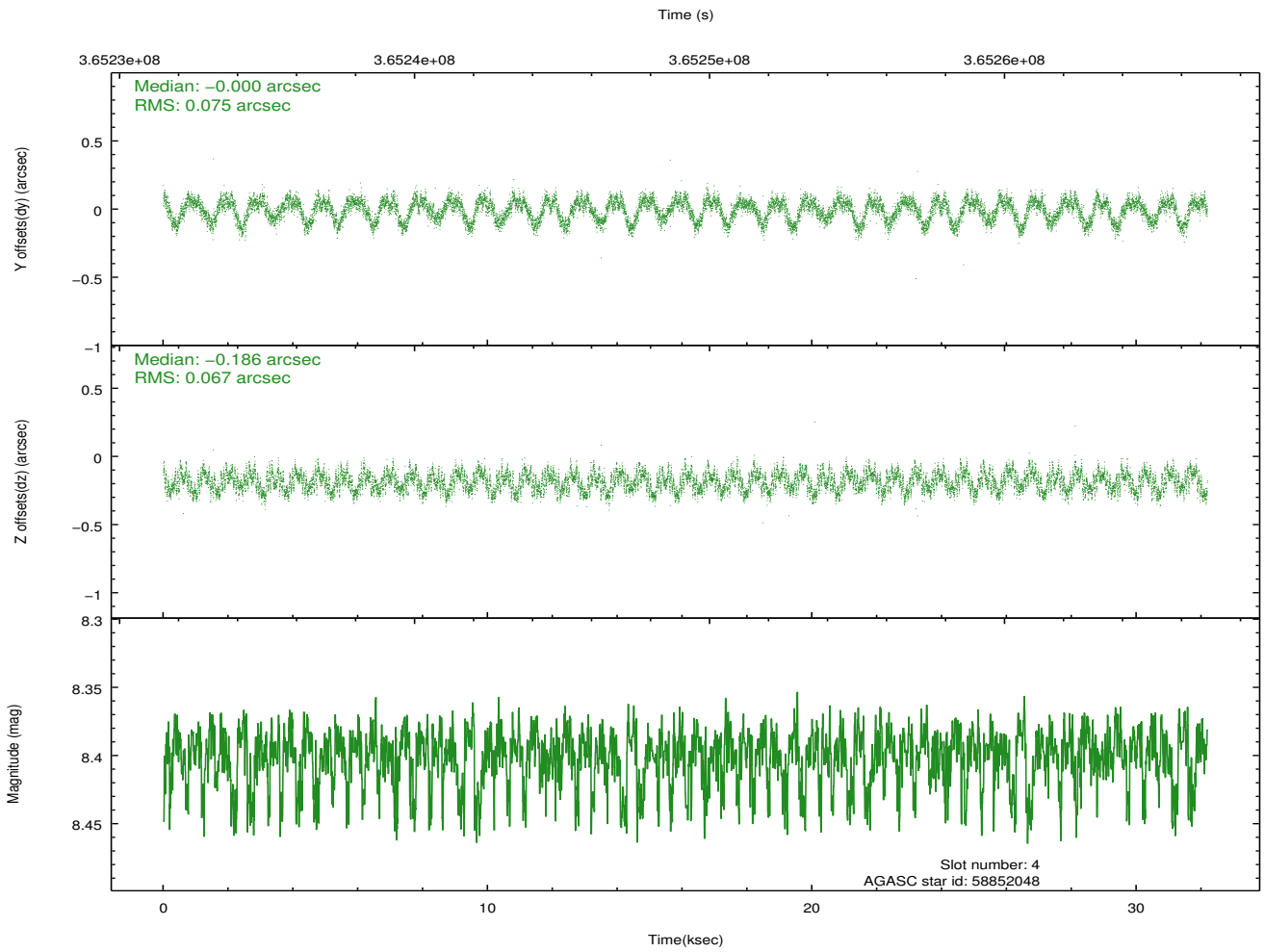
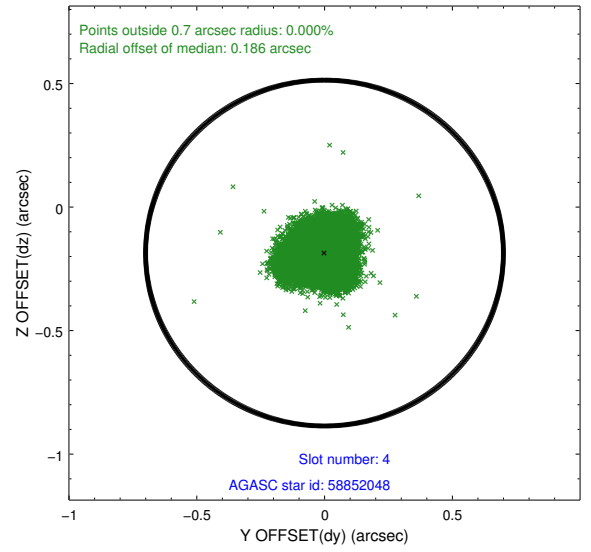
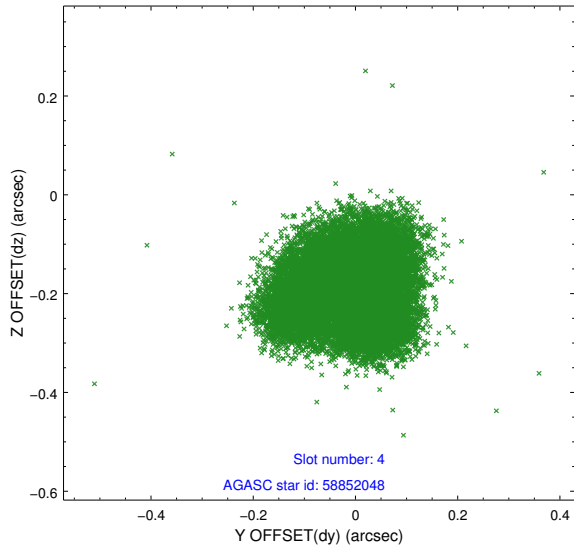
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	7851	0.085	0.181	0.014	0.025	0.000000	0.000000	929.97	-1929.95
1	FID	ACIS-S-2	6.91	7851	-0.186	-0.114	0.014	0.022	0.000000	0.000000	-766.17	-1934.92
2	FID	ACIS-S-6	7.23	7850	0.082	-0.063	0.012	0.018	0.000000	0.000000	395.55	611.03
3	GUIDE	58720848	9.22	15676	0.144	0.164	0.089	0.145	282.753905	0.246323	2190.27	-121.44
4	GUIDE	58852048	8.40	15691	-0.000	-0.186	0.110	0.162	283.366398	0.870285	-944.44	162.49
5	GUIDE	58857104	9.19	15677	-0.004	-0.023	0.085	0.138	283.814800	0.638238	-1320.22	1940.92
6	GUIDE	58724088	6.72	15699	-0.017	-0.084	0.079	0.126	282.404972	0.836197	1341.57	-2438.14
7	GUIDE	58720424	9.00	15692	-0.111	0.131	0.102	0.165	282.873634	1.408205	-1320.53	-2436.11

## 2.4 Star Slots

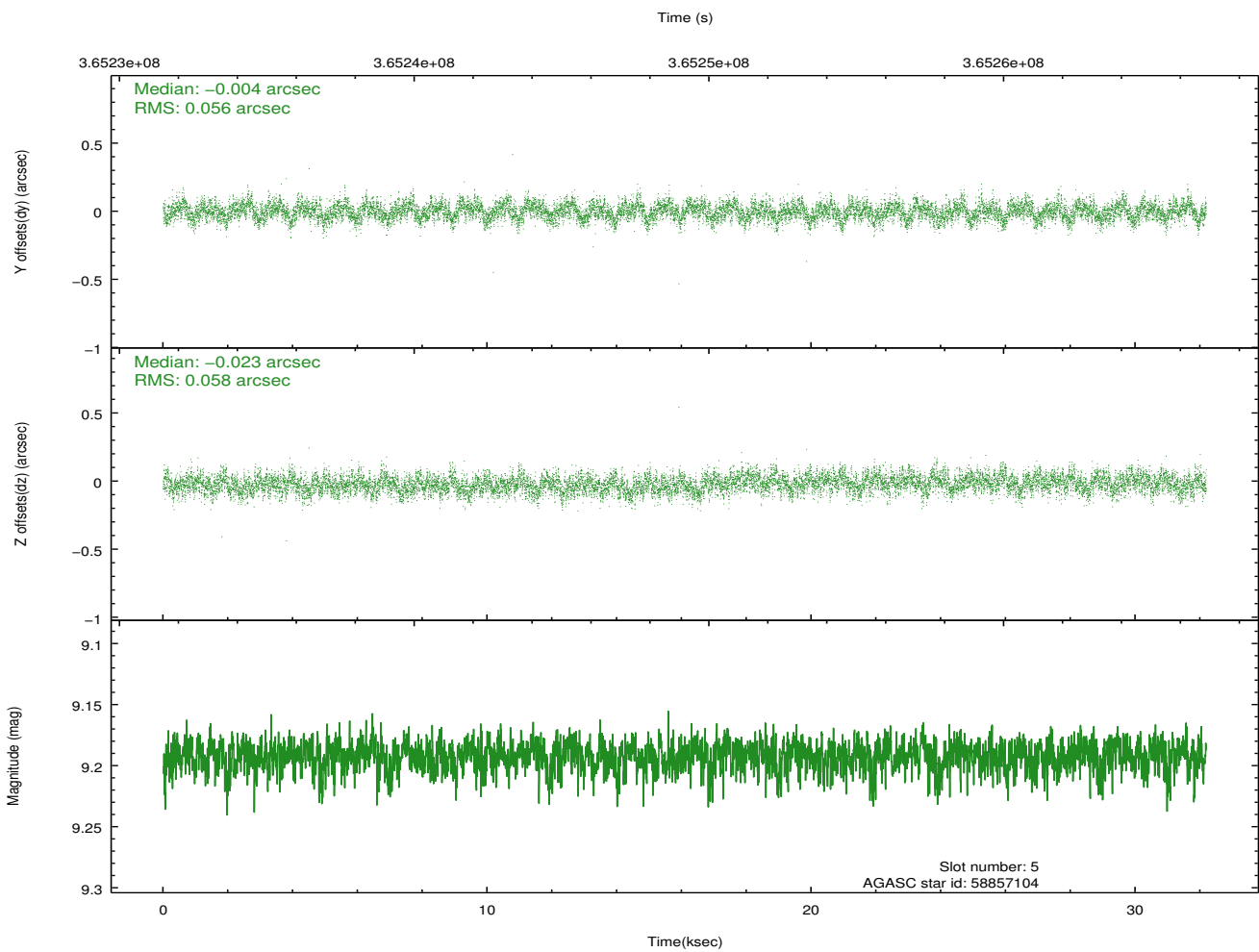
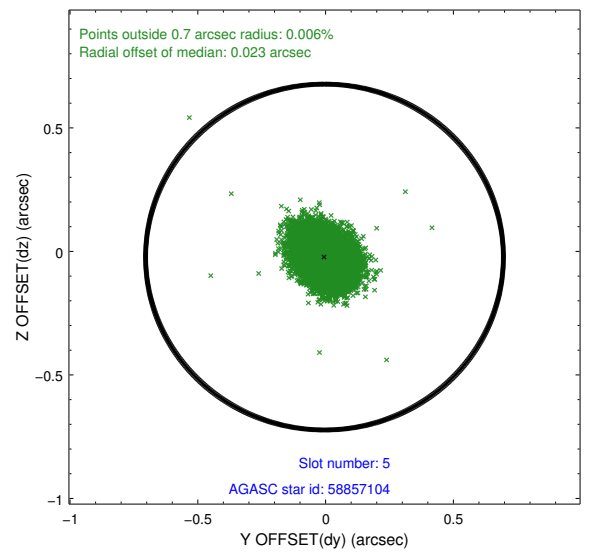
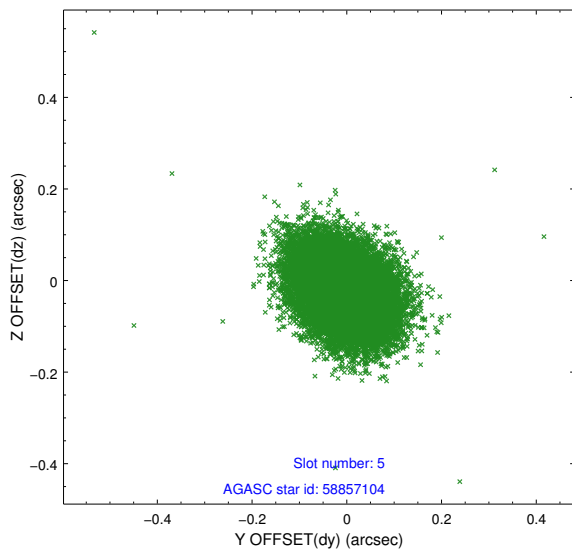
### 2.4.1 Slot 3



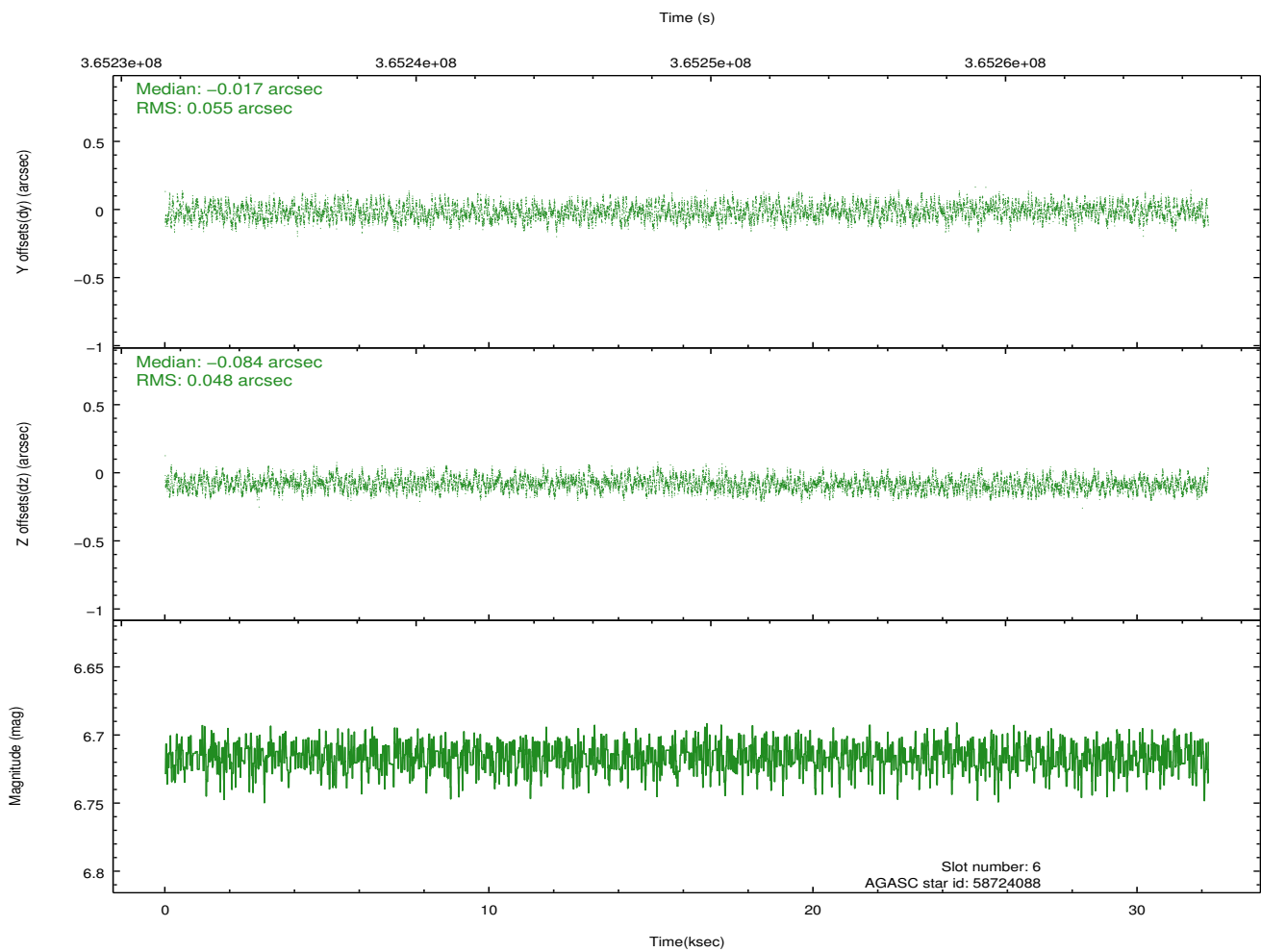
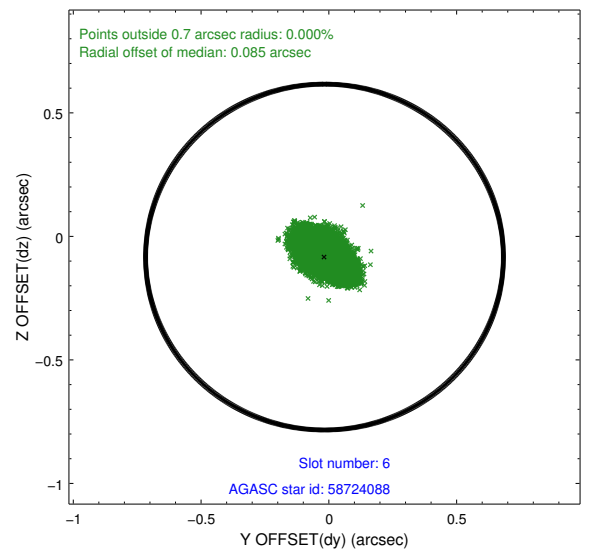
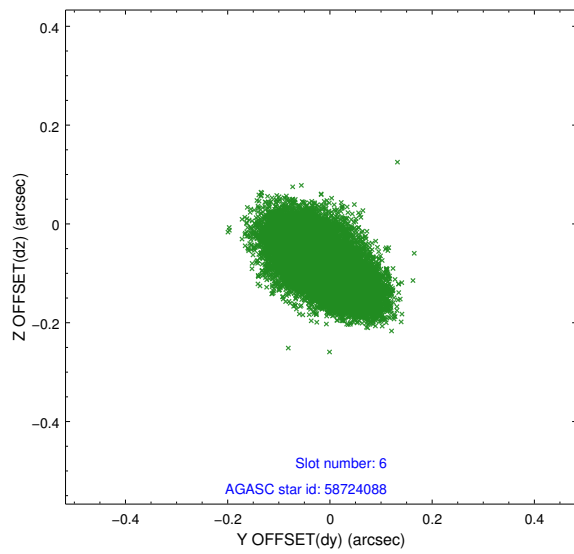
### 2.4.2 Slot 4



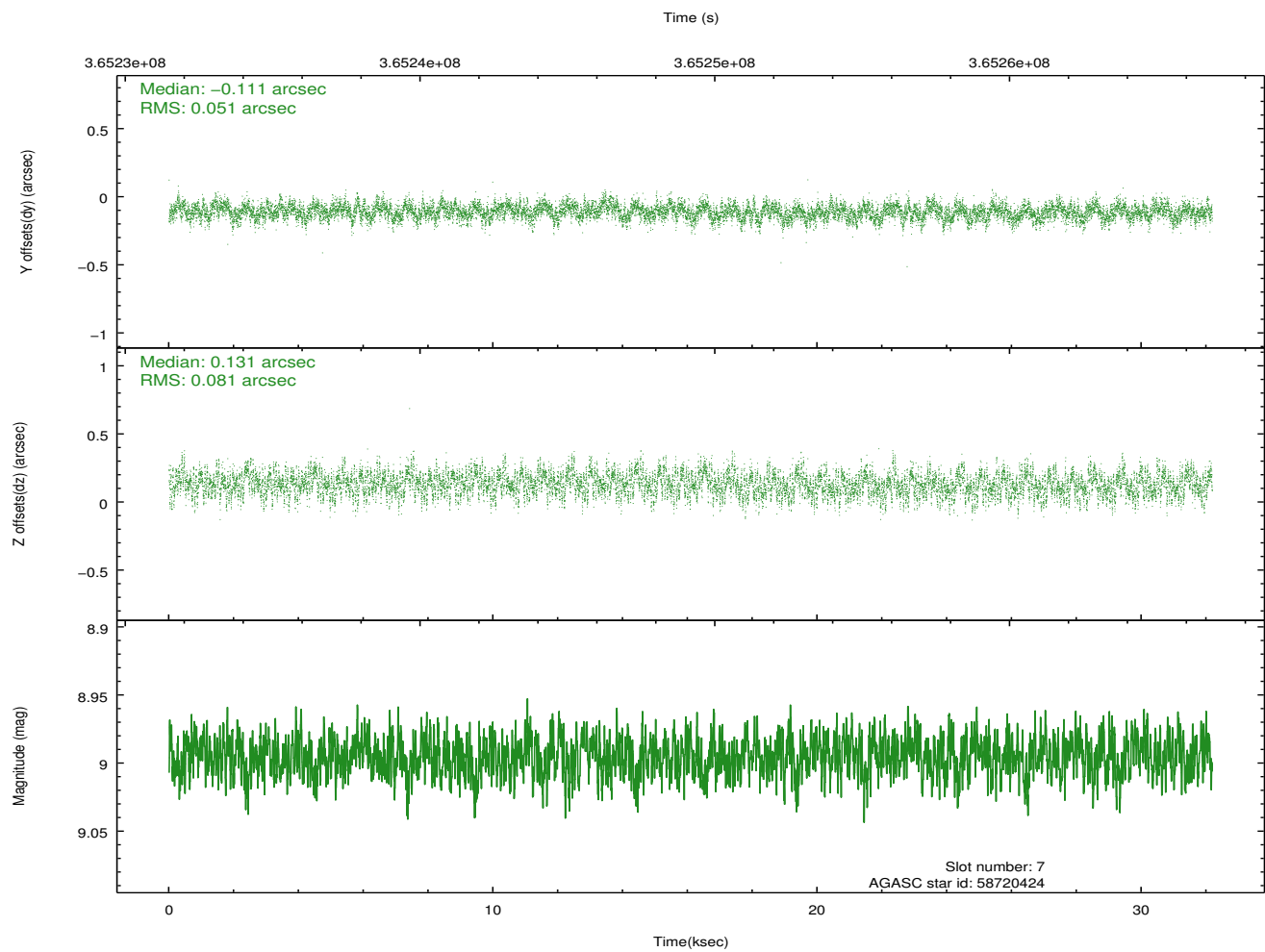
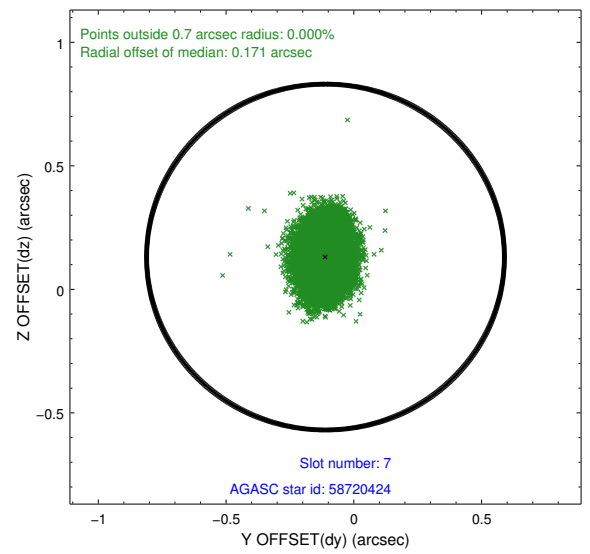
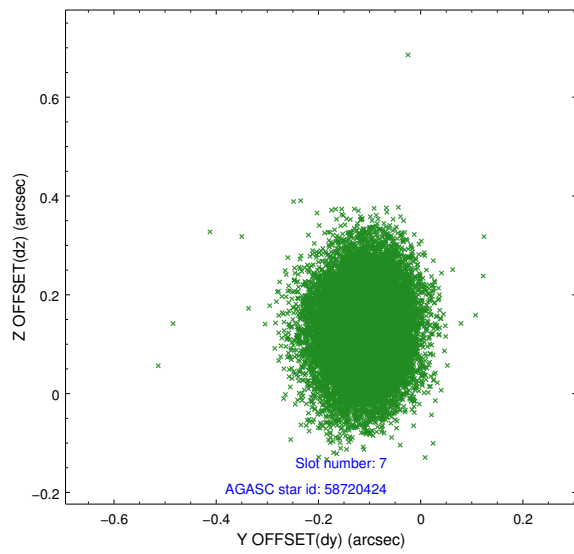
### 2.4.3 Slot 5



## 2.4.4 Slot 6

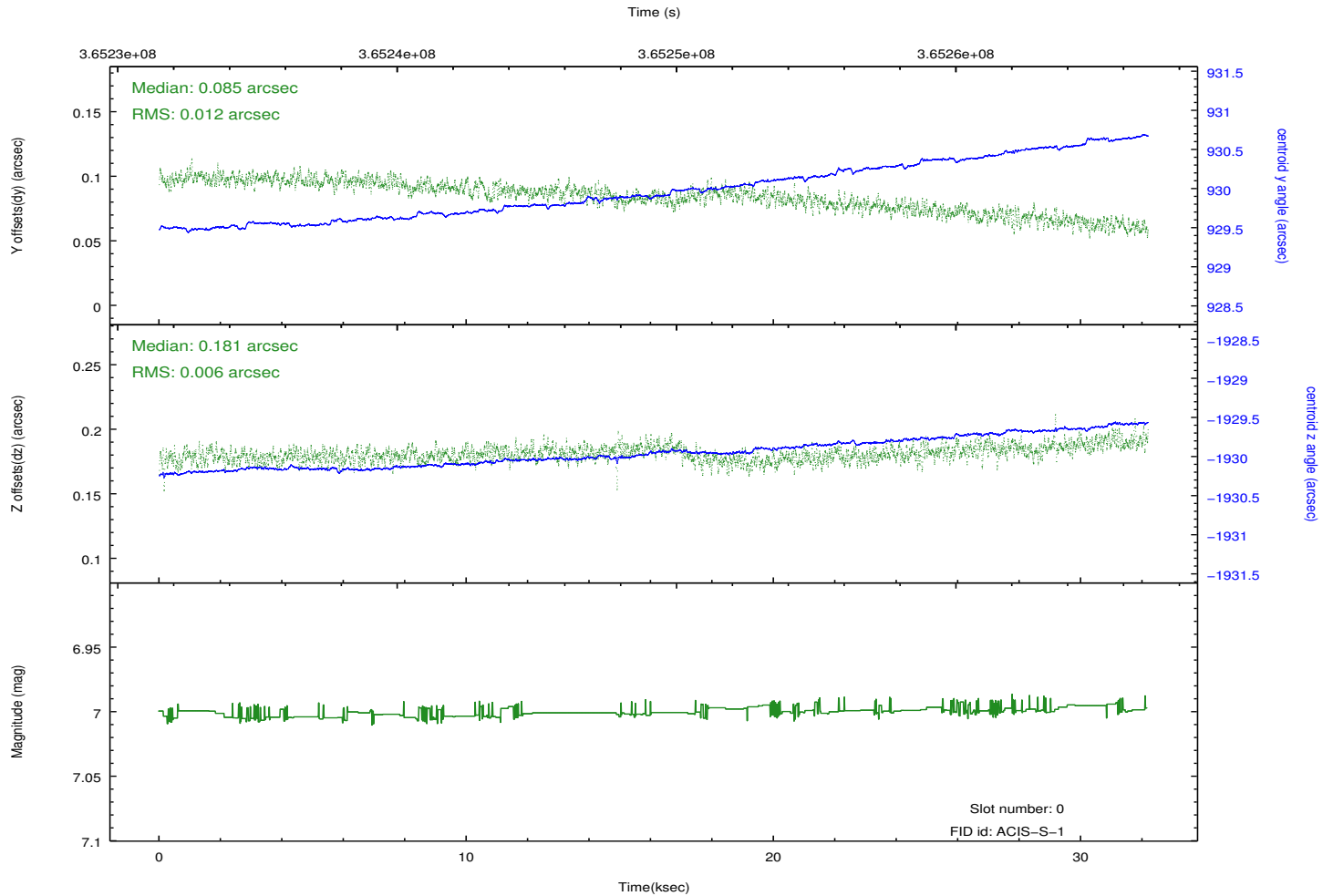
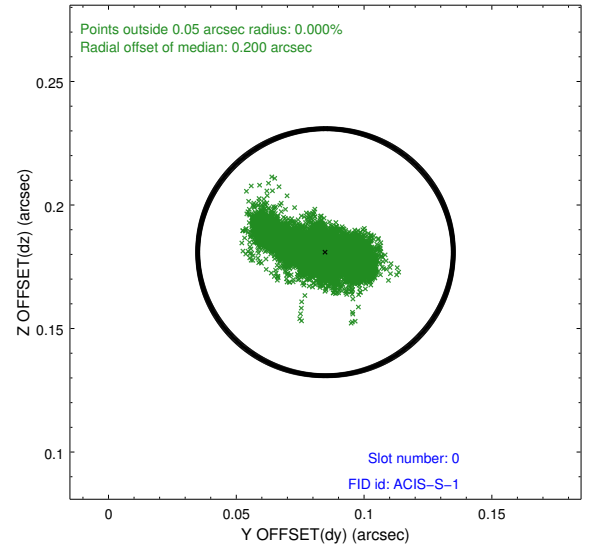
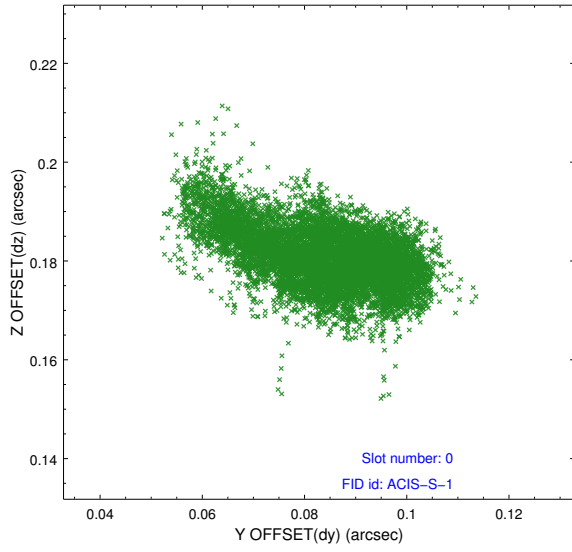


## 2.4.5 Slot 7

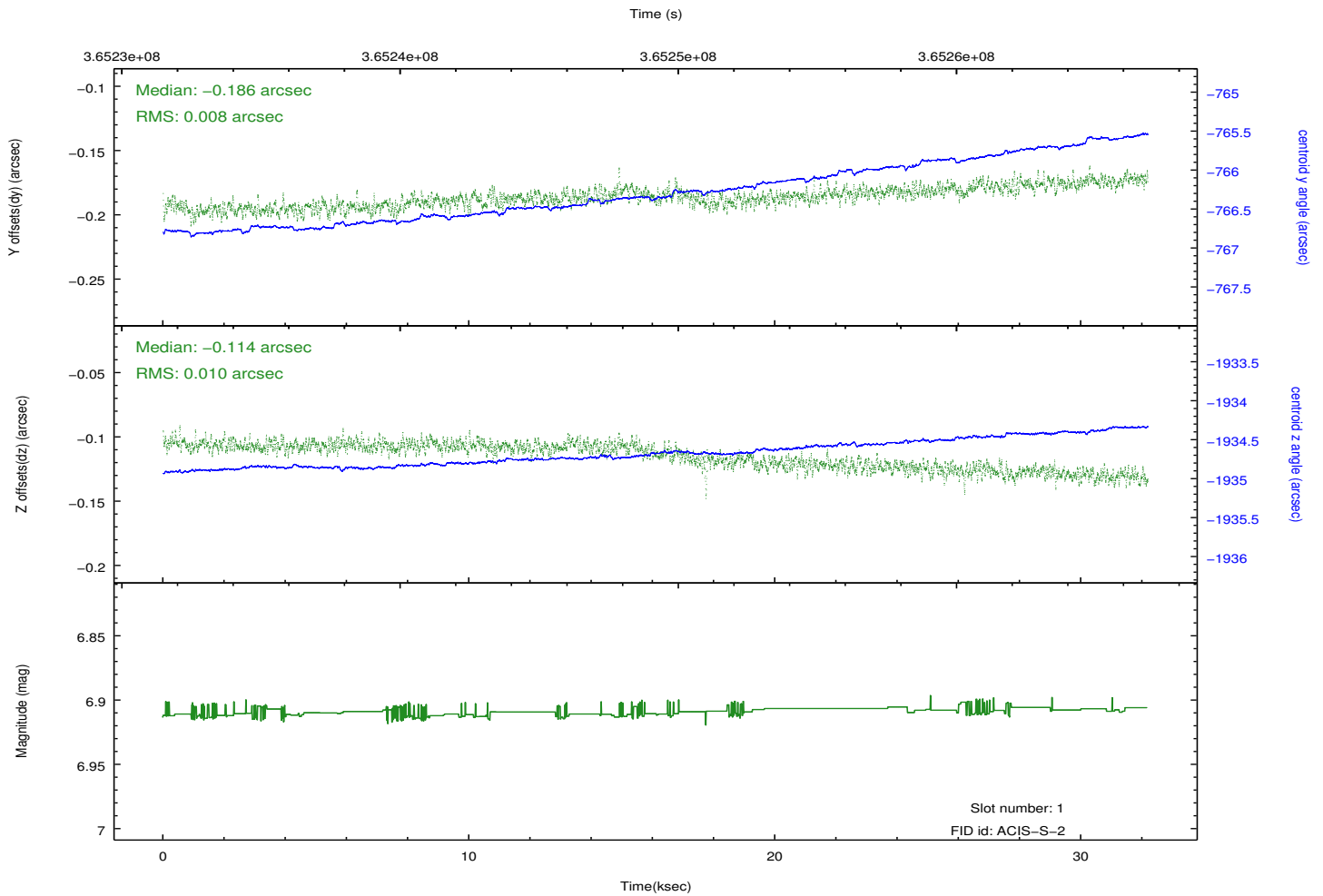
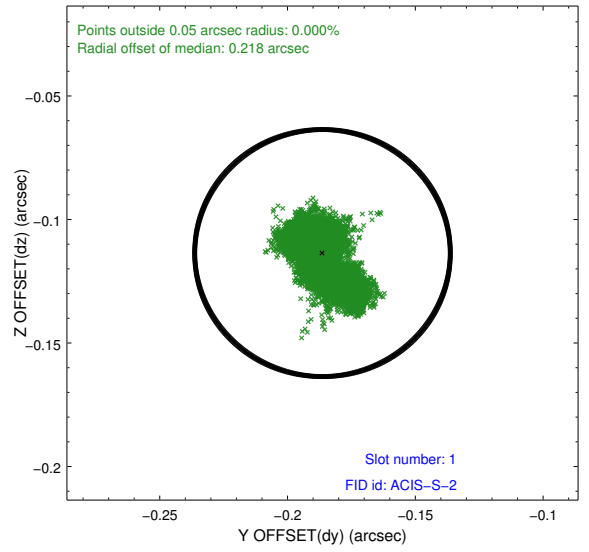
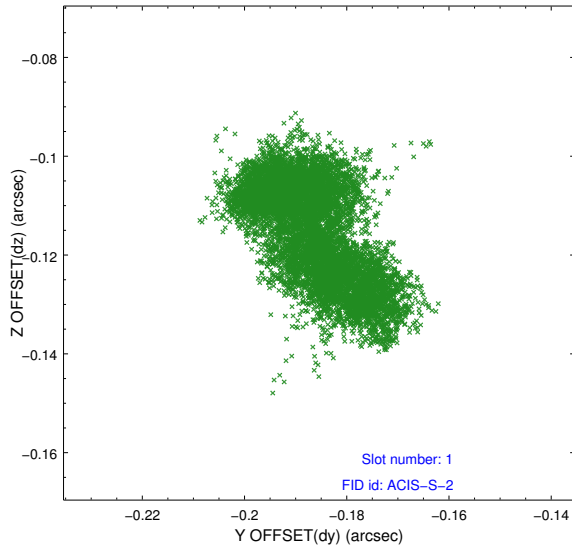


## 2.5 FID Slots

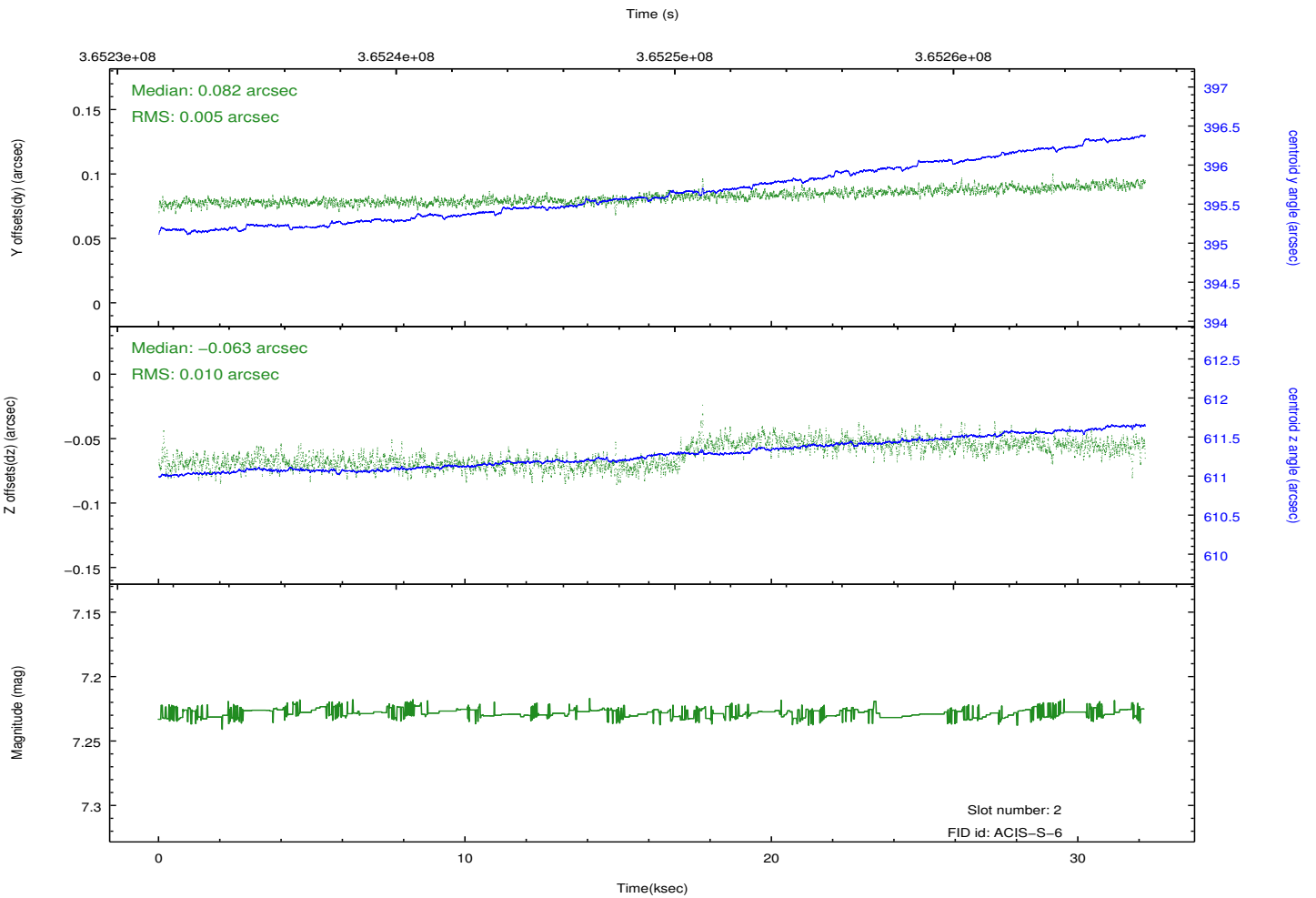
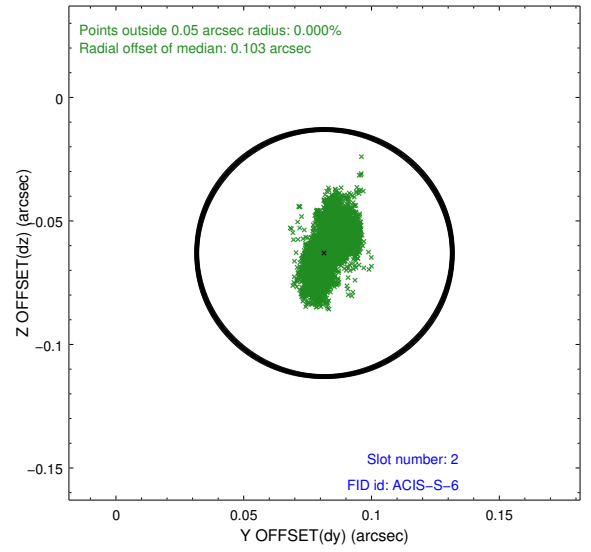
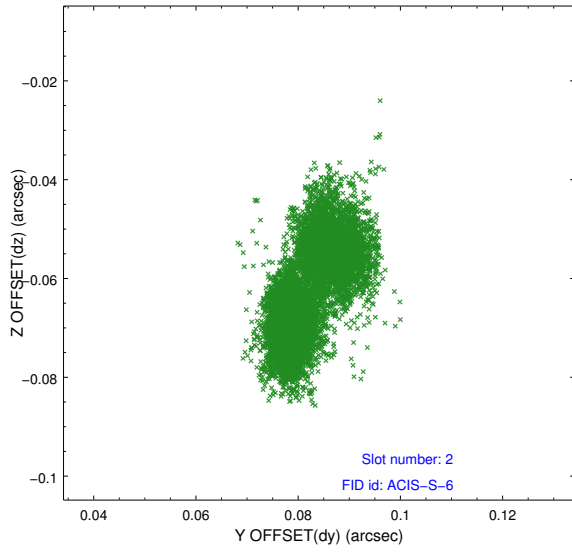
### 2.5.1 Slot 0



## 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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.1815

## A.2 Comments

Time constraint met.