

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 15785 - L2 Version 2  
Chandra X-Ray Center

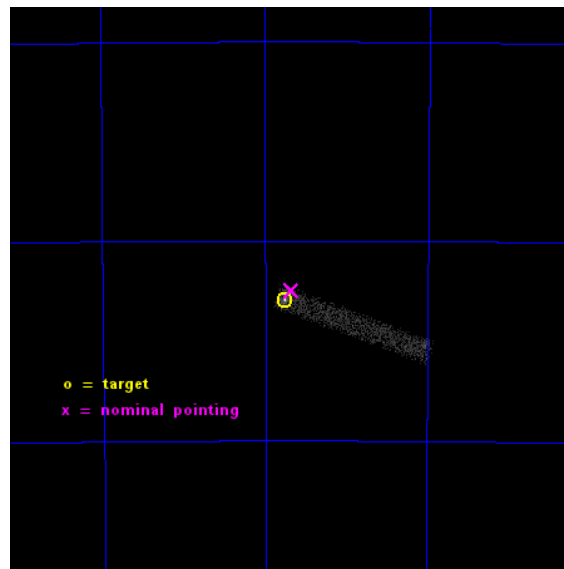
L2 Processing Date : Dec 12 2014

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

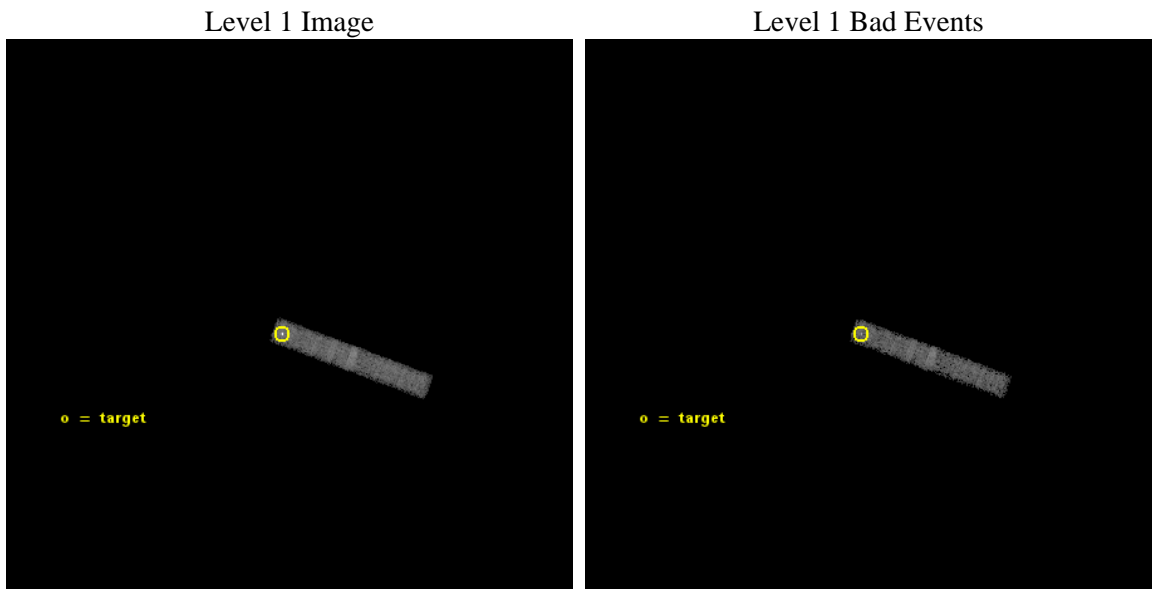
seq_num	401582	Sequence number
obs_id	15785	Observation id
title	Chandra's study of the slow pulsar SXP1062 associated with a young SNR in the SMC	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	SXP 1062	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	21.94125	Observer's specified target RA [deg]
dec_targ	-73.548972	Observer's specified target Dec [deg]
ra_nom	21.919204717082	Nominal RA [deg]
dec_nom	-73.541264520804	Nominal Dec [deg]
roll_nom	110.03036833501	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29810.795873046	Sum of GTIs [s]
livetime	27549.530416463	Livetime [s]
ontime3	29810.795873046	Sum of GTIs [s]
l2events	7547	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29707.780000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	29810.795873046	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime3	29810.795873046	Sum of GTIs [s]
date	2014-12-12T06:52:32	Date and time of file creation	l1events	28338	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

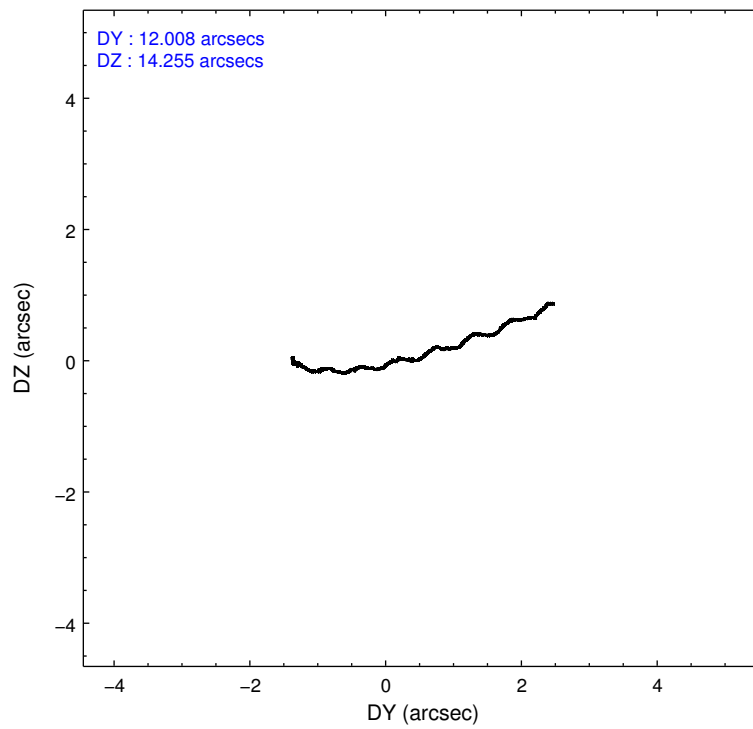
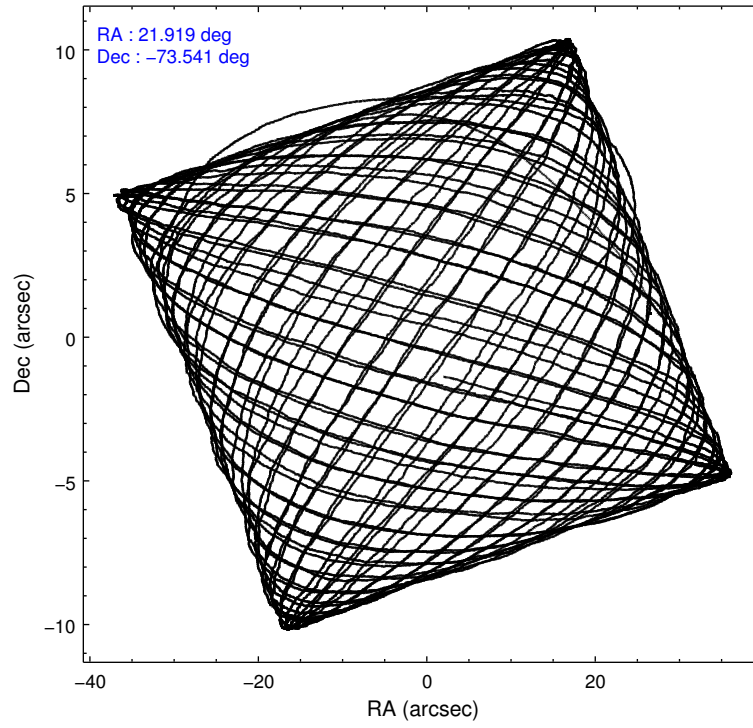
	<b>ccd 3</b>
level 1 events	28338
rejected events	20273
rejected %	71%

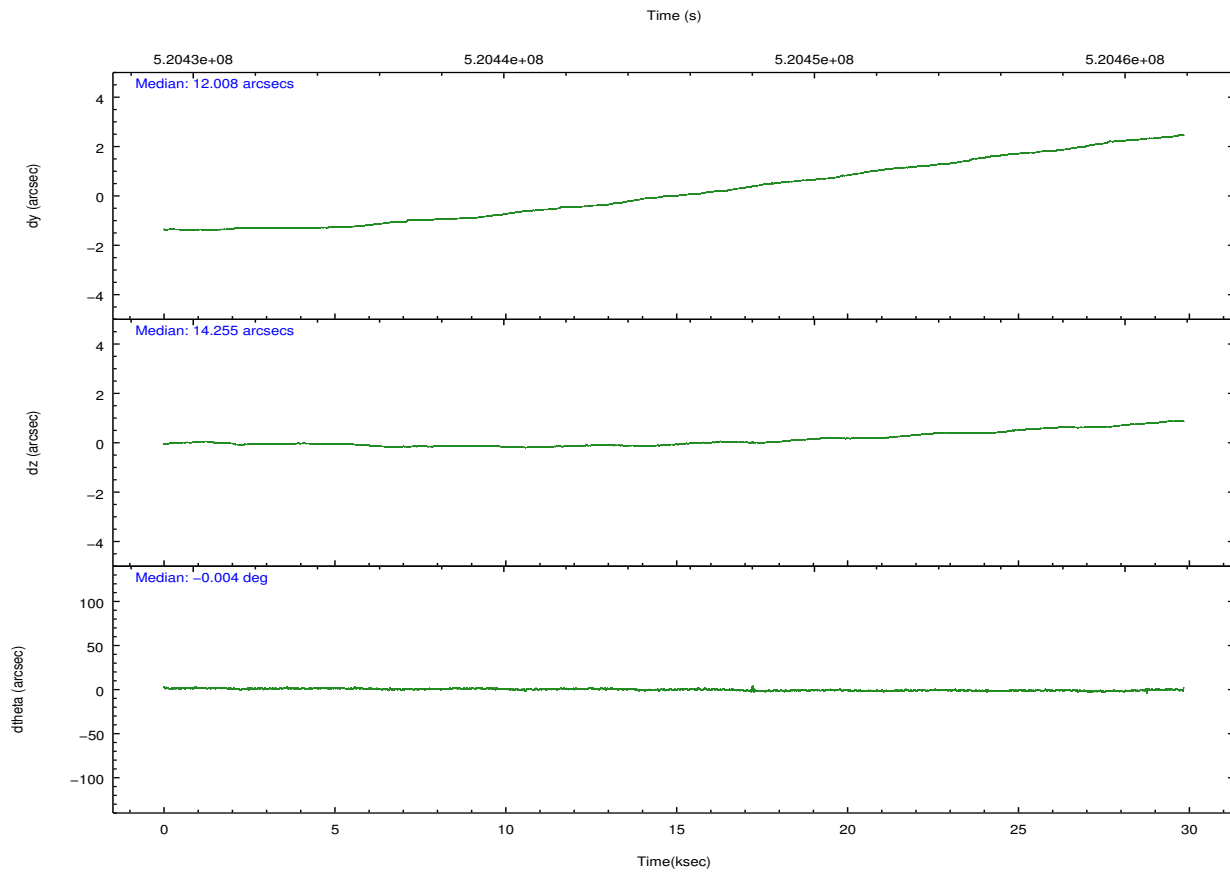
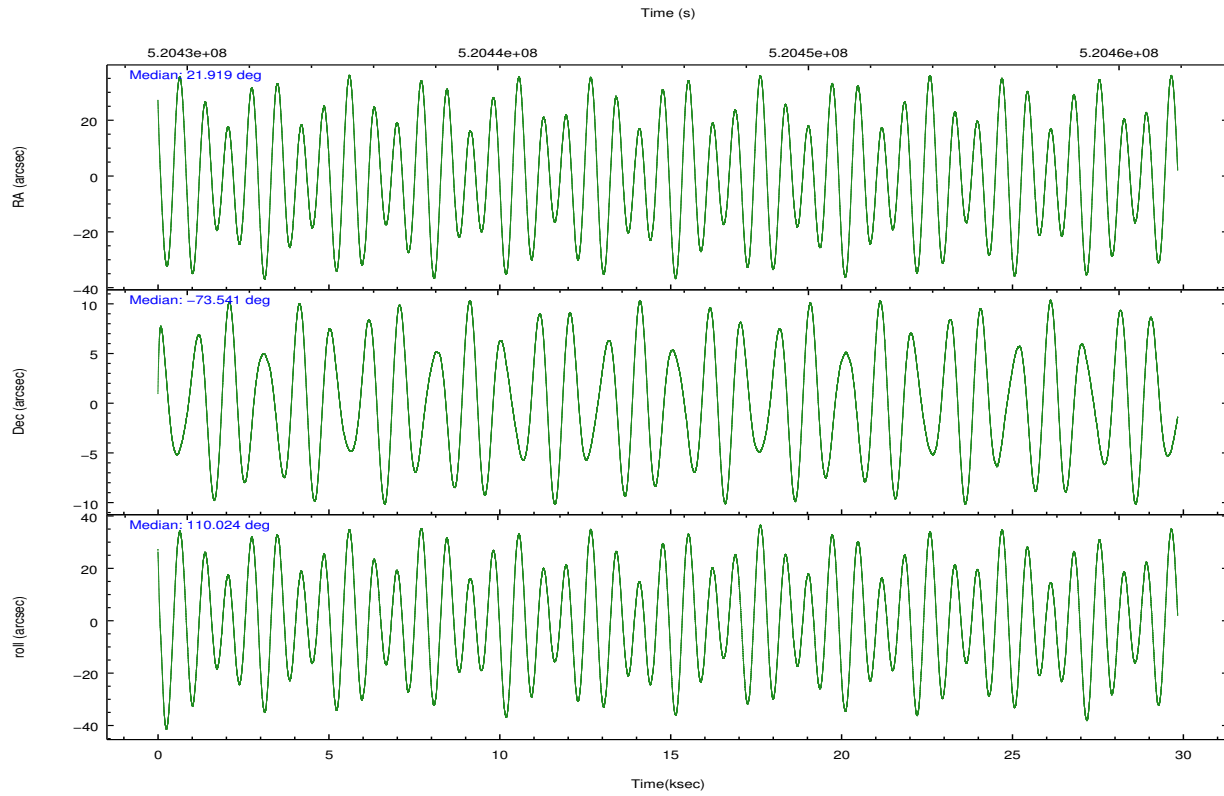
	<b>ccd 3</b>
grade 0 events	4398
	15%
grade 1 events	66
	0%
grade 2 events	1102
	3%
grade 3 events	845
	2%
grade 4 events	719
	2%
grade 5 events	1046
	3%
grade 6 events	1002
	3%
grade 7 events	19160
	67%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	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	21.993889	21.91920471708164	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-73.558832	-73.54126452080375	Subarray start row	897	897
[deg] Pointing Roll	109.893309	110.0303683350129	Subarray row count	128	128
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	520430684.184000	520429599.09903			
Observation start date	2014-06-29T12:03:37	2014-06-29T11:46:39			
[s] Observation end time (MET)	520460392.184000	520460631.48825			
Observation end date	2014-06-29T20:18:45	2014-06-29T20:23:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect





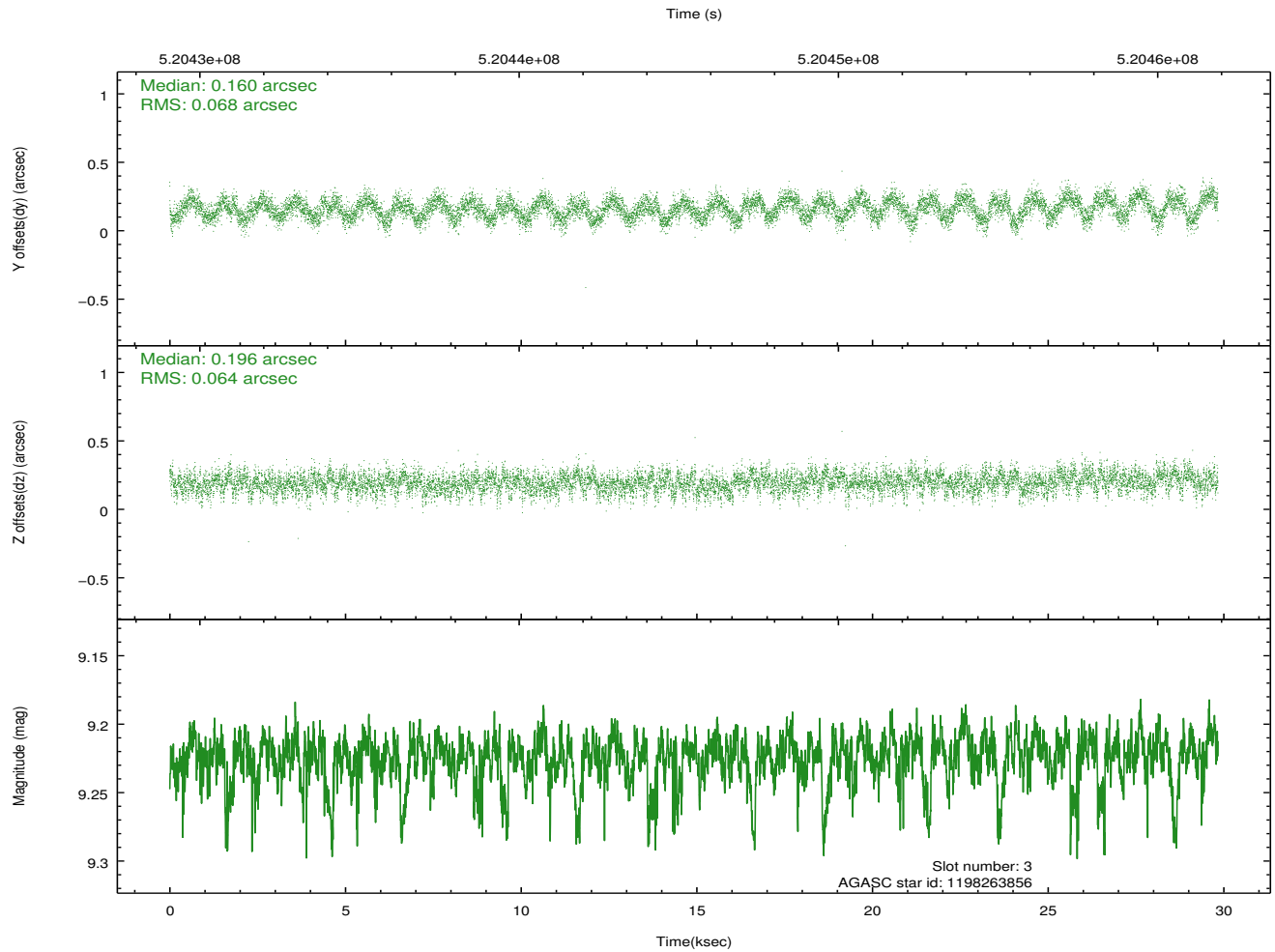
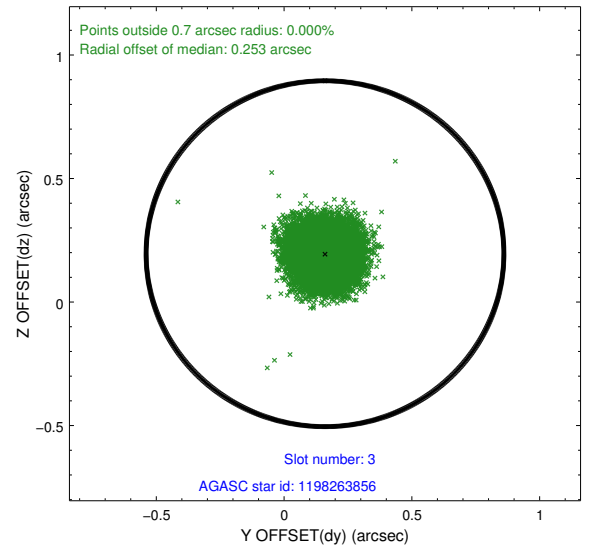
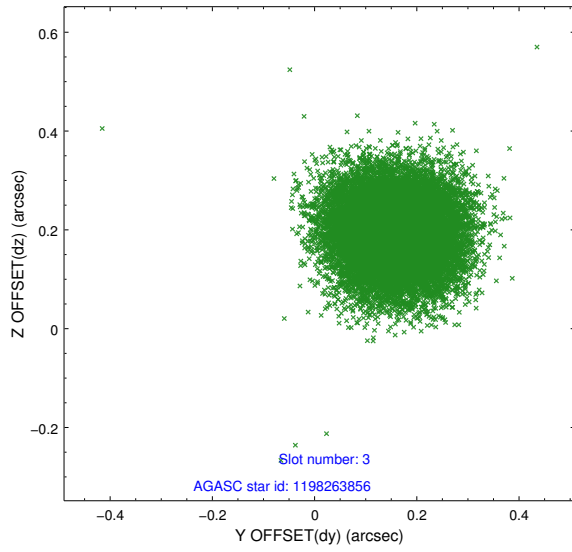
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	7277	0.090	0.013	0.017	0.026	0.000000	0.000000	927.48	-837.92
1	FID		ACIS-I-2	7.06	7278	-0.076	-0.078	0.021	0.031	0.000000	0.000000	-766.73	-844.55
2	FID		ACIS-I-5	7.16	7278	-0.105	0.137	0.012	0.019	0.000000	0.000000	-1821.09	1059.54
3	GUIDE	used	1198263856	9.22	14547	0.160	0.196	0.101	0.156	23.344483	-73.858921	-1489.60	-898.01
4	GUIDE	used	1198268712	8.52	14551	0.042	0.182	0.076	0.123	21.961983	-73.269598	990.53	-323.45
5	GUIDE	used	1198269920	8.25	14553	-0.127	-0.192	0.066	0.106	20.316466	-73.033728	2353.95	1021.76
6	GUIDE	used	1198272400	9.14	14546	-0.139	-0.258	0.101	0.161	20.411923	-73.620598	317.46	1592.83
7	GUIDE	used	1198264032	7.99	14549	0.061	0.075	0.066	0.107	22.563131	-73.173817	1099.08	-1027.34

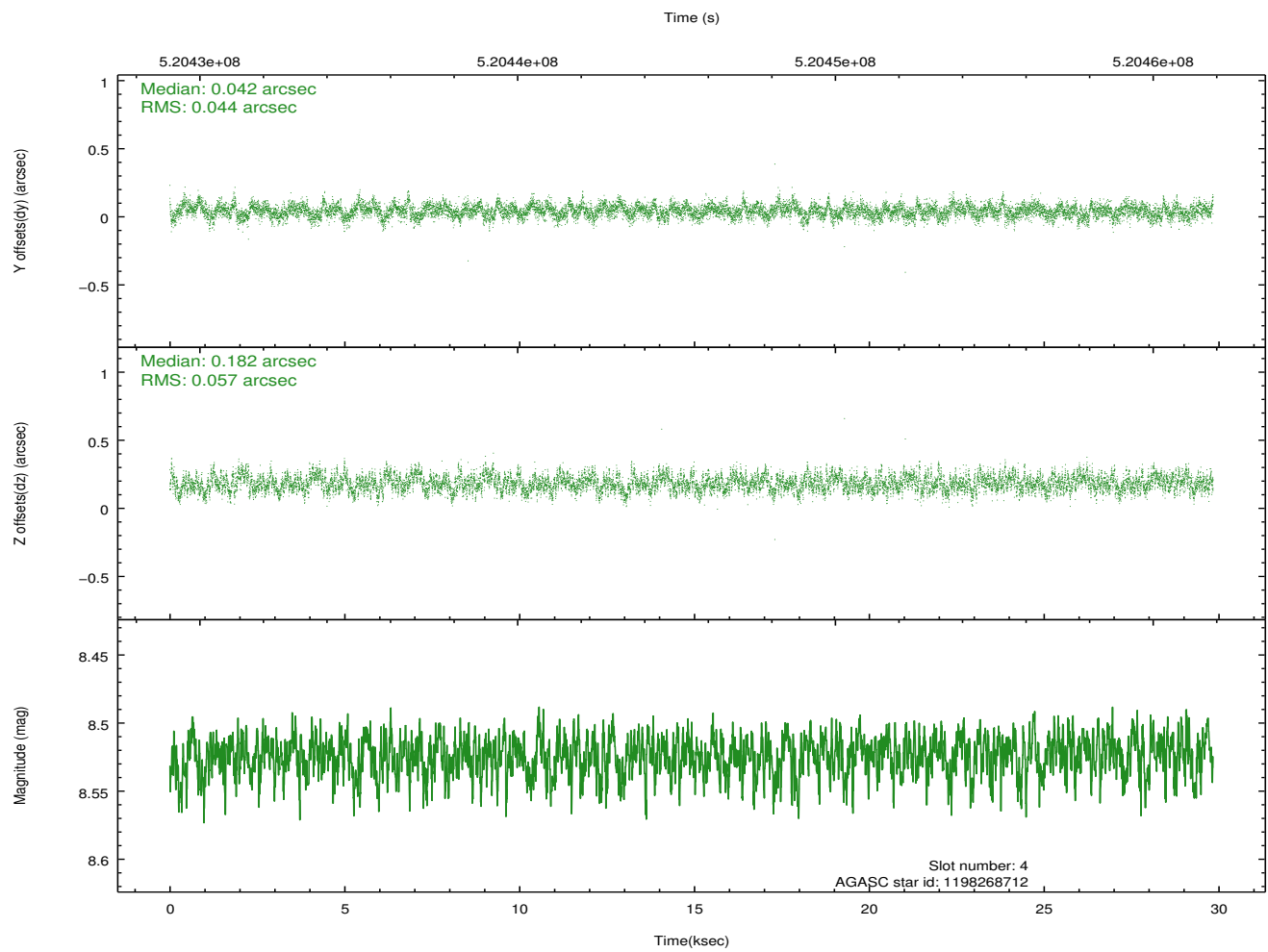
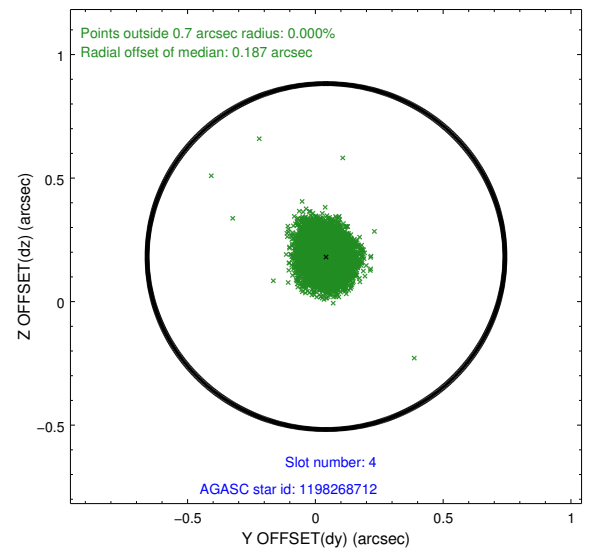
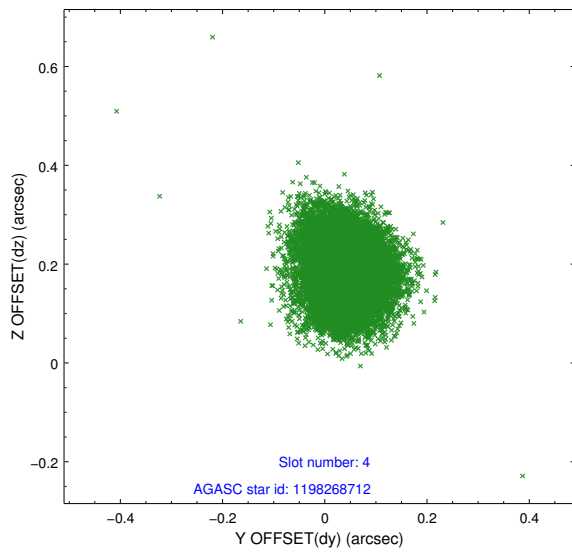
∞

## 2.4 Star Slots

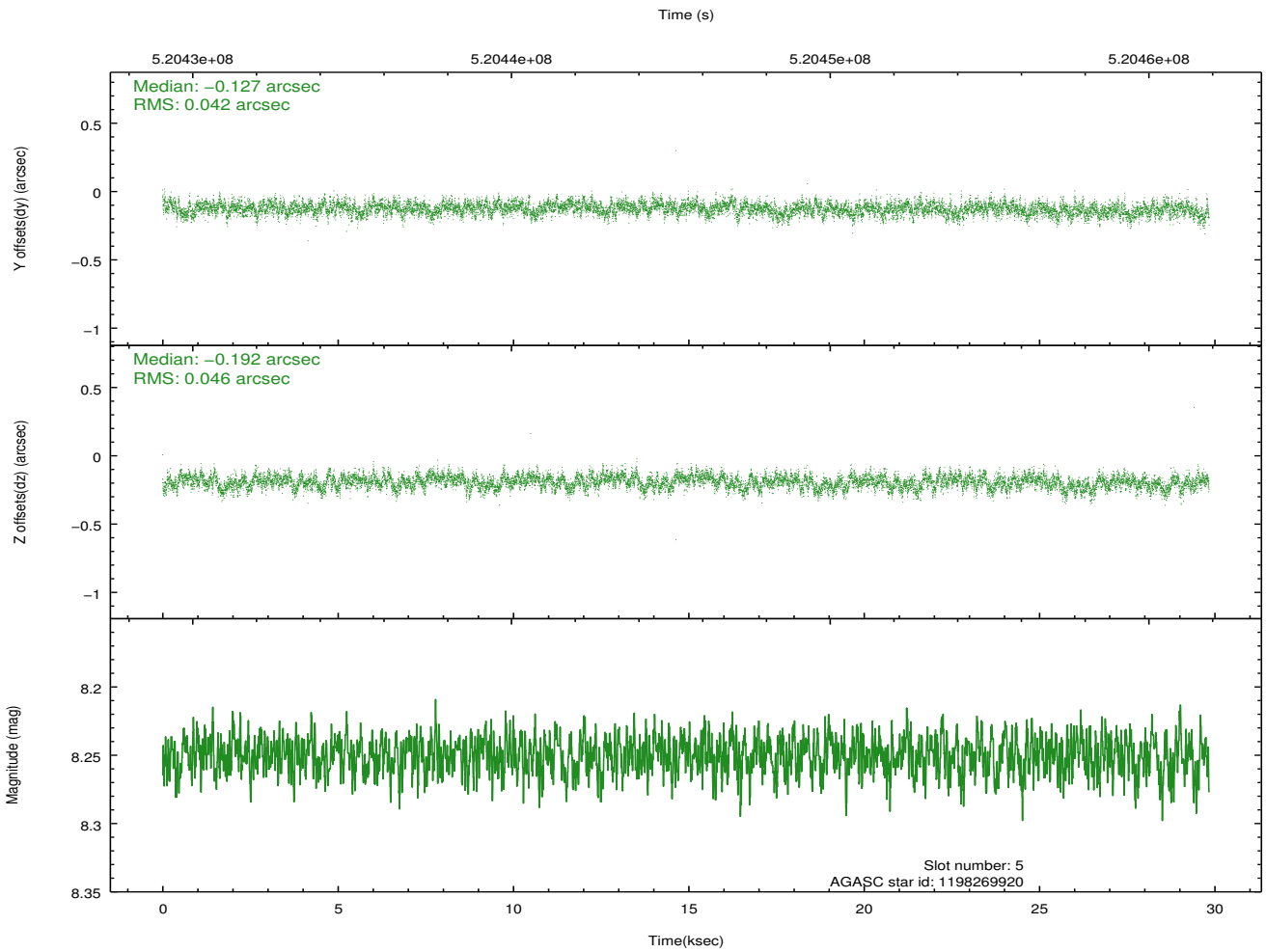
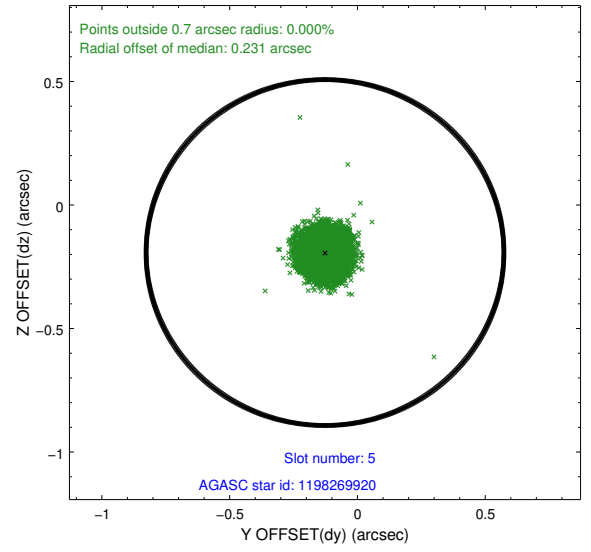
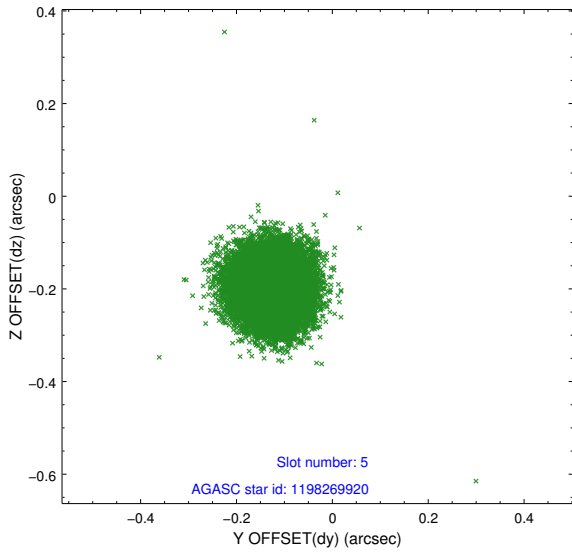
### 2.4.1 Slot 3



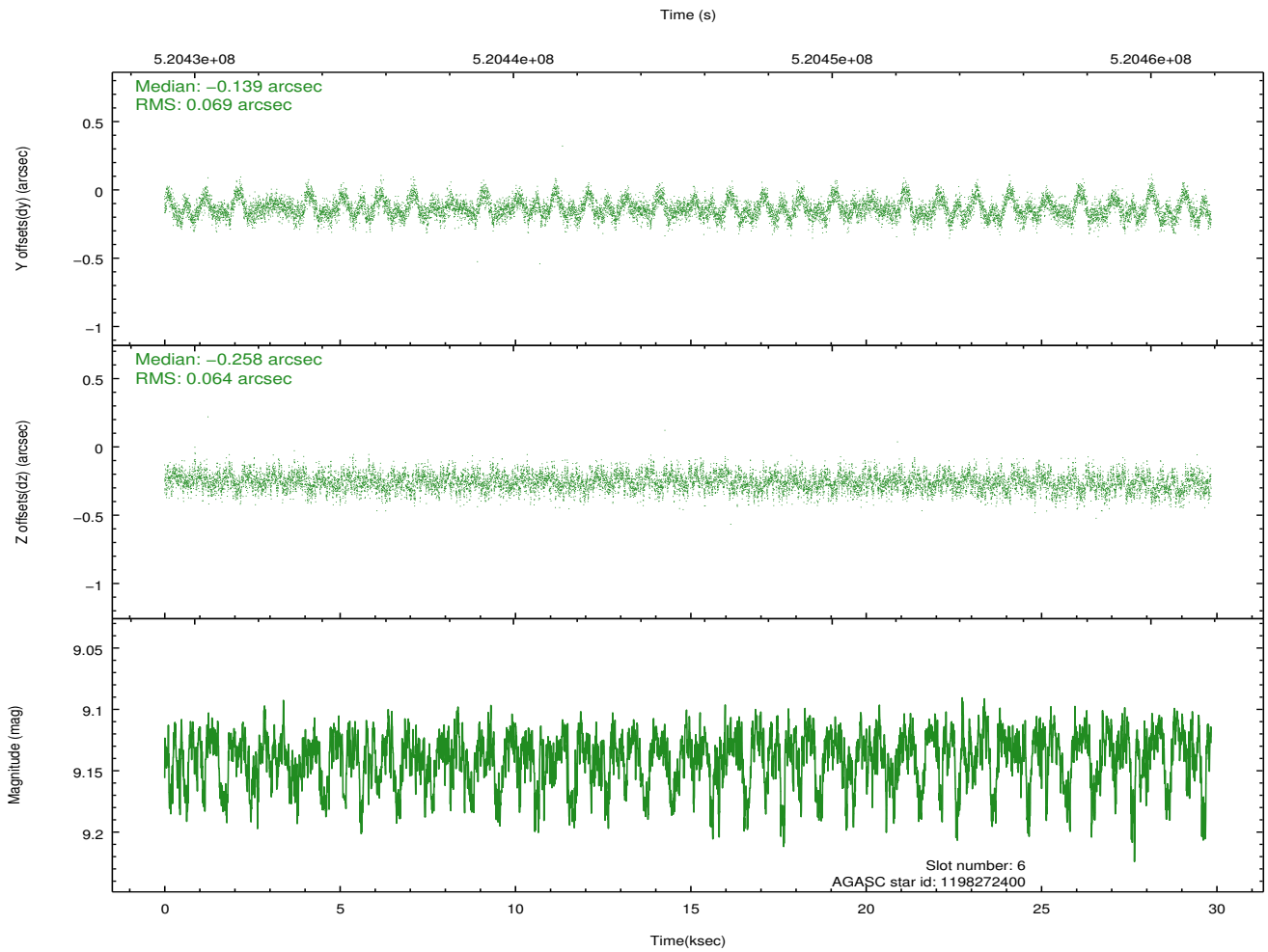
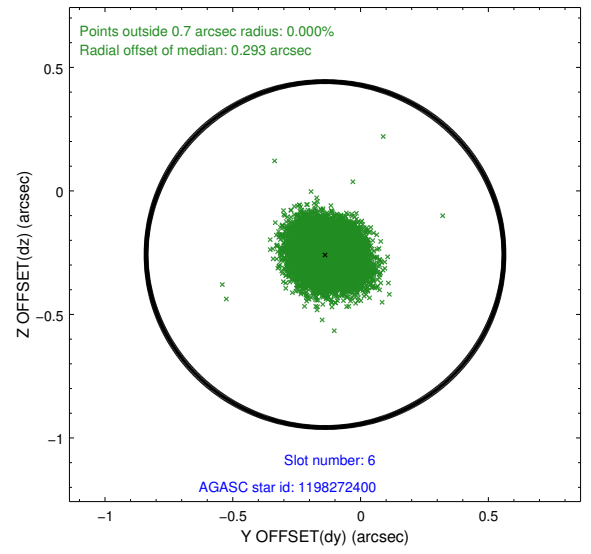
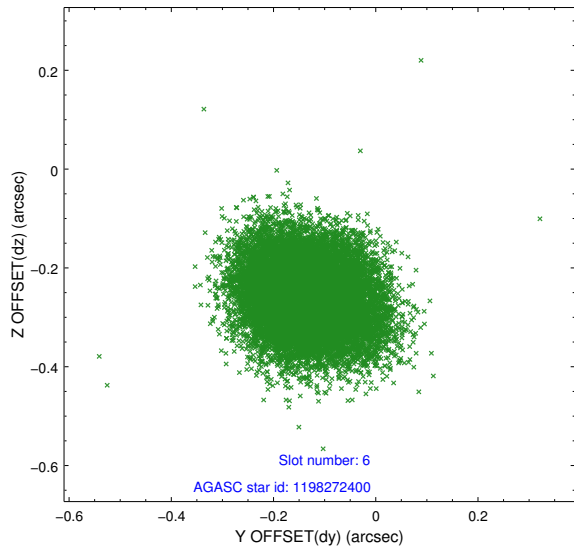
## 2.4.2 Slot 4



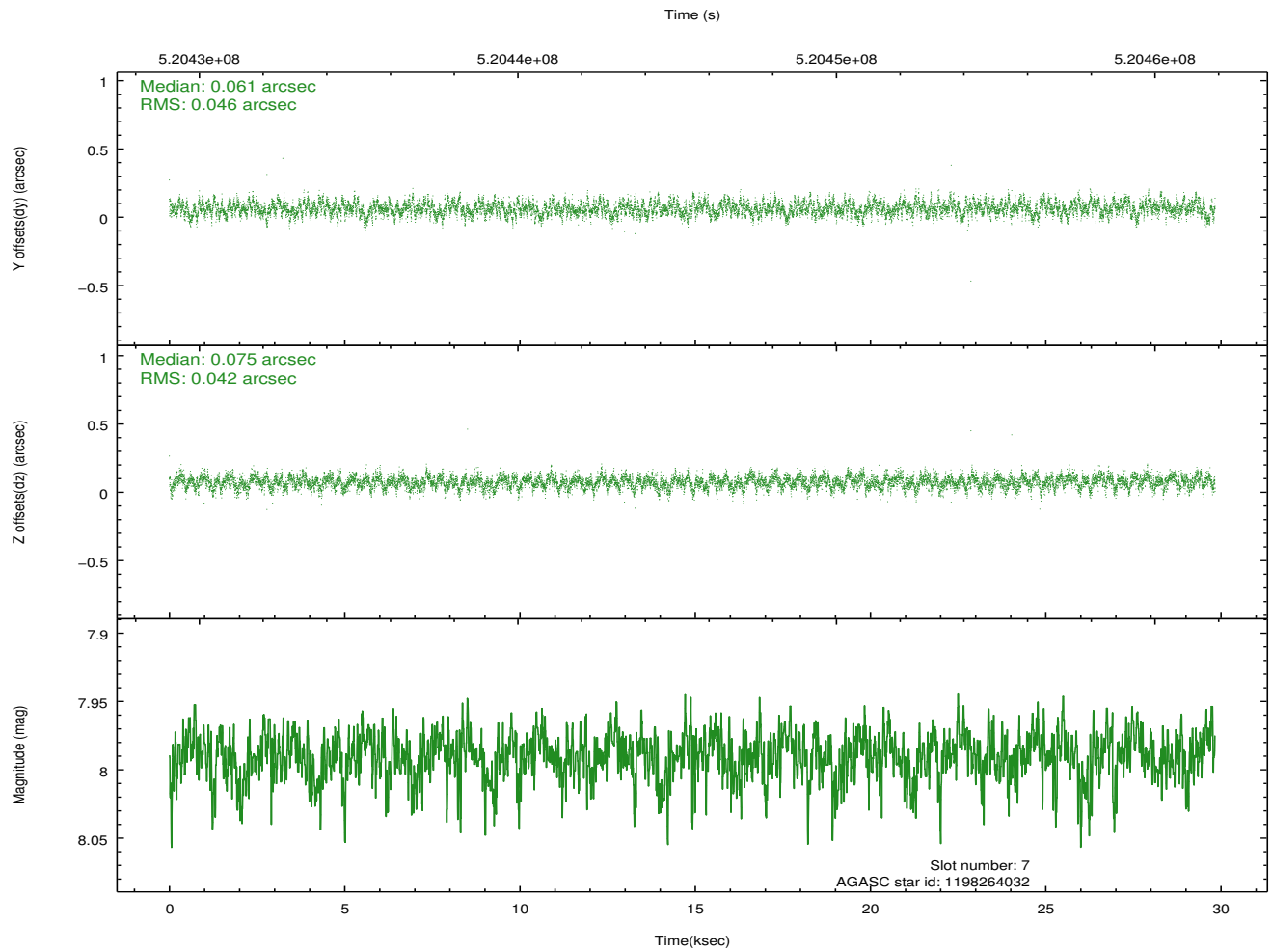
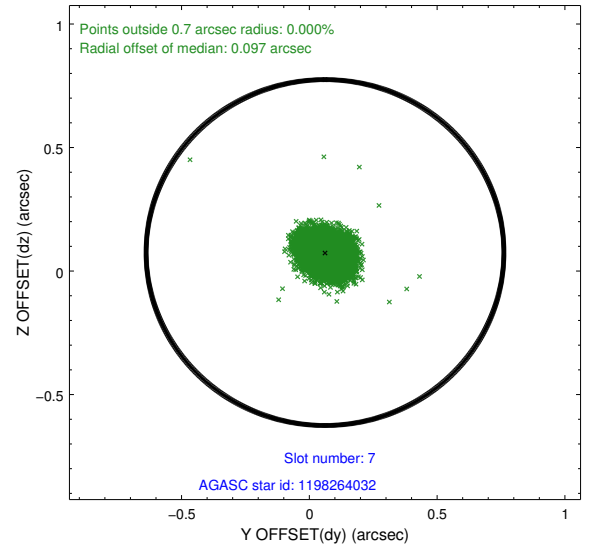
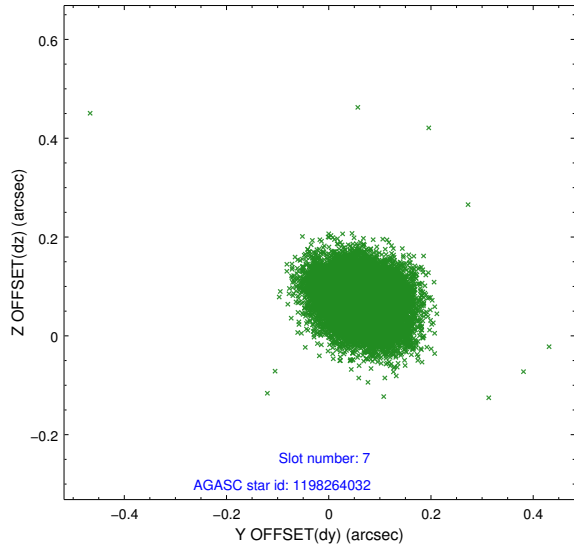
### 2.4.3 Slot 5



## 2.4.4 Slot 6

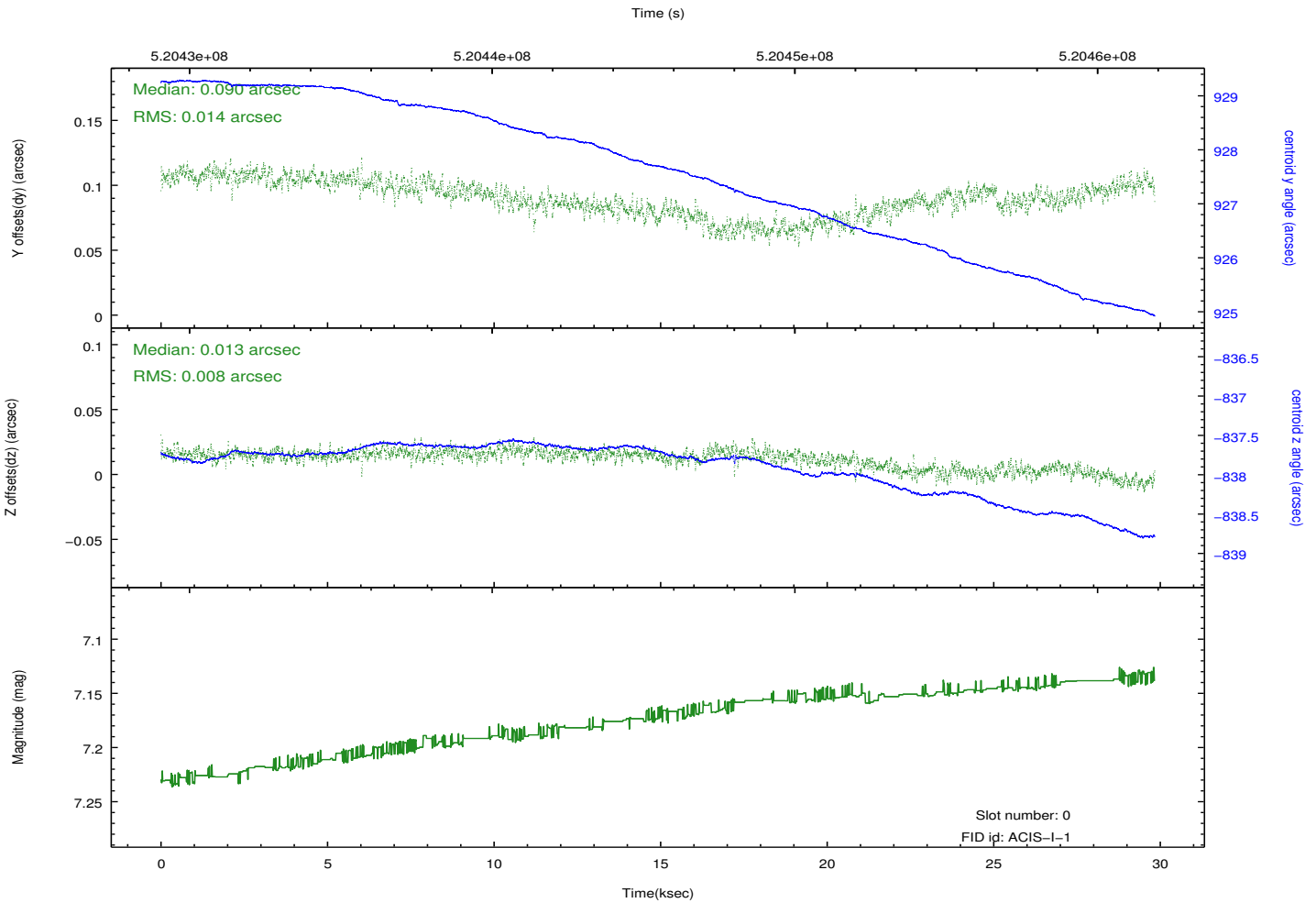
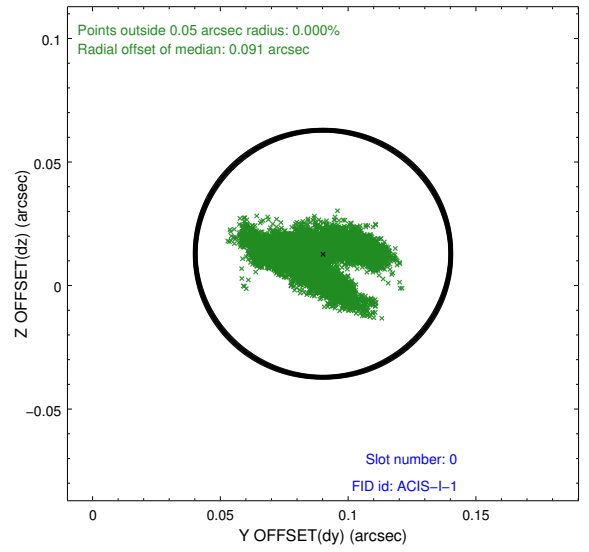
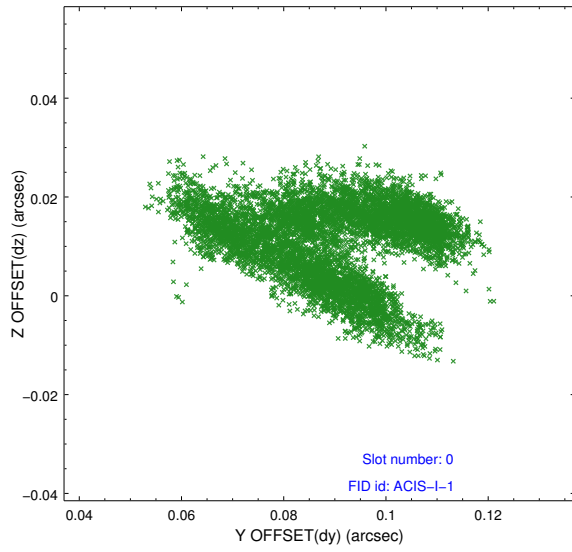


## 2.4.5 Slot 7

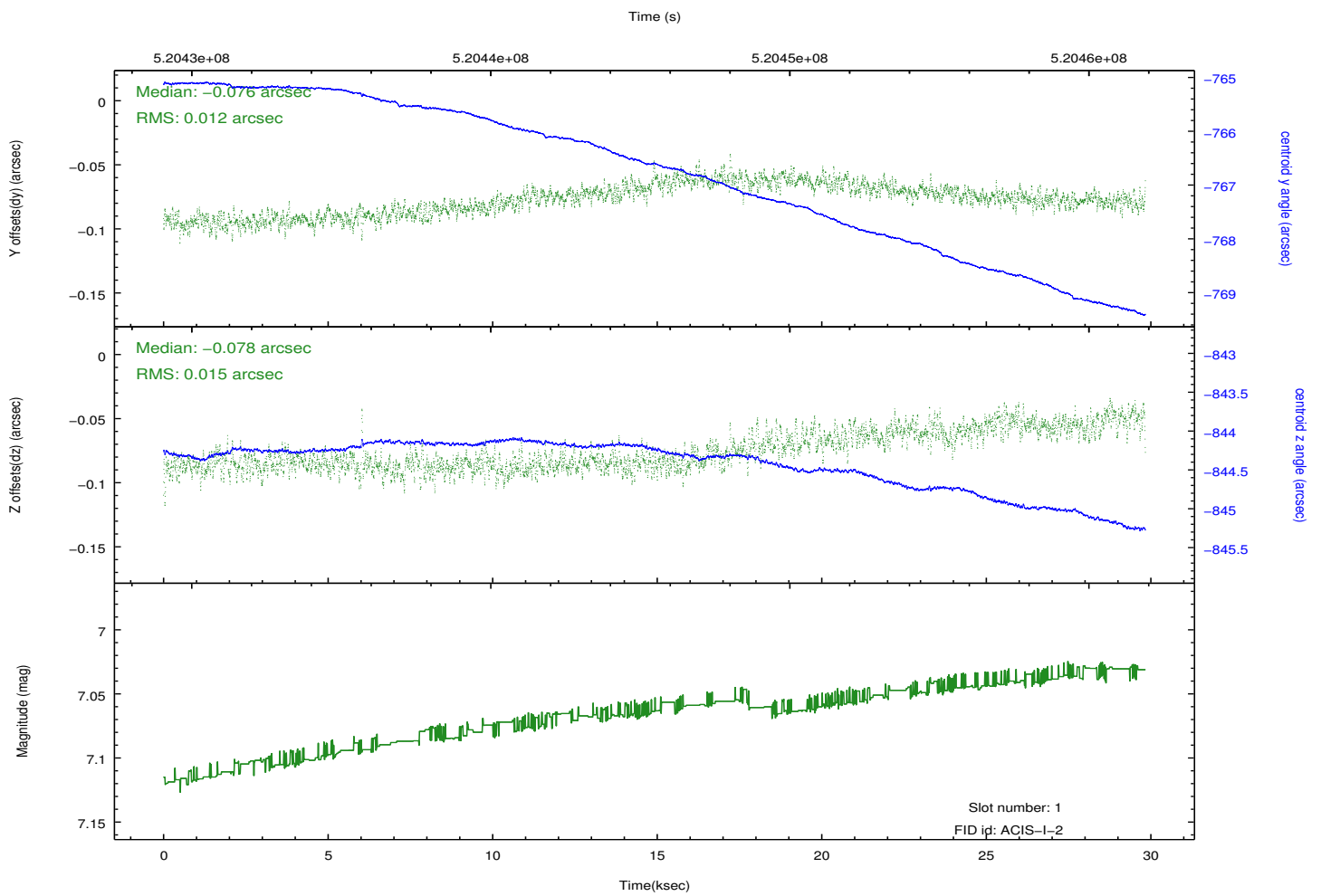
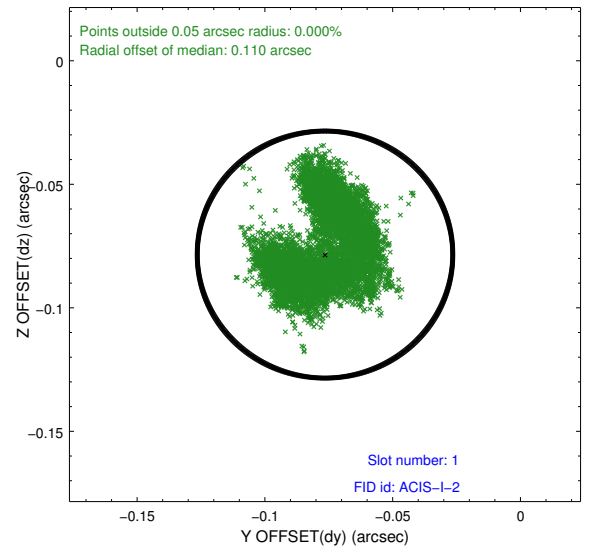
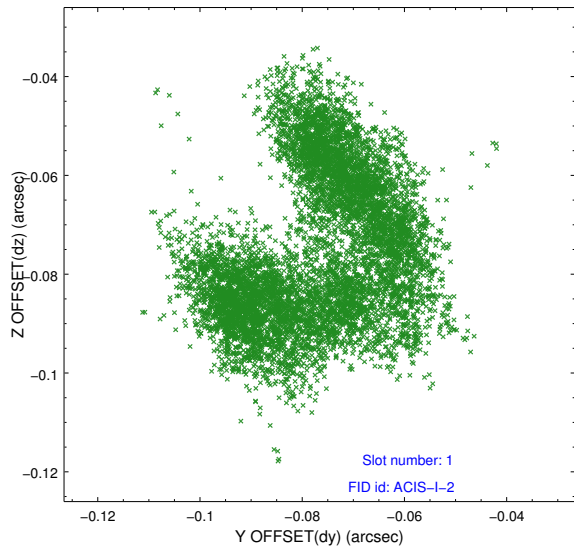


## 2.5 FID Slots

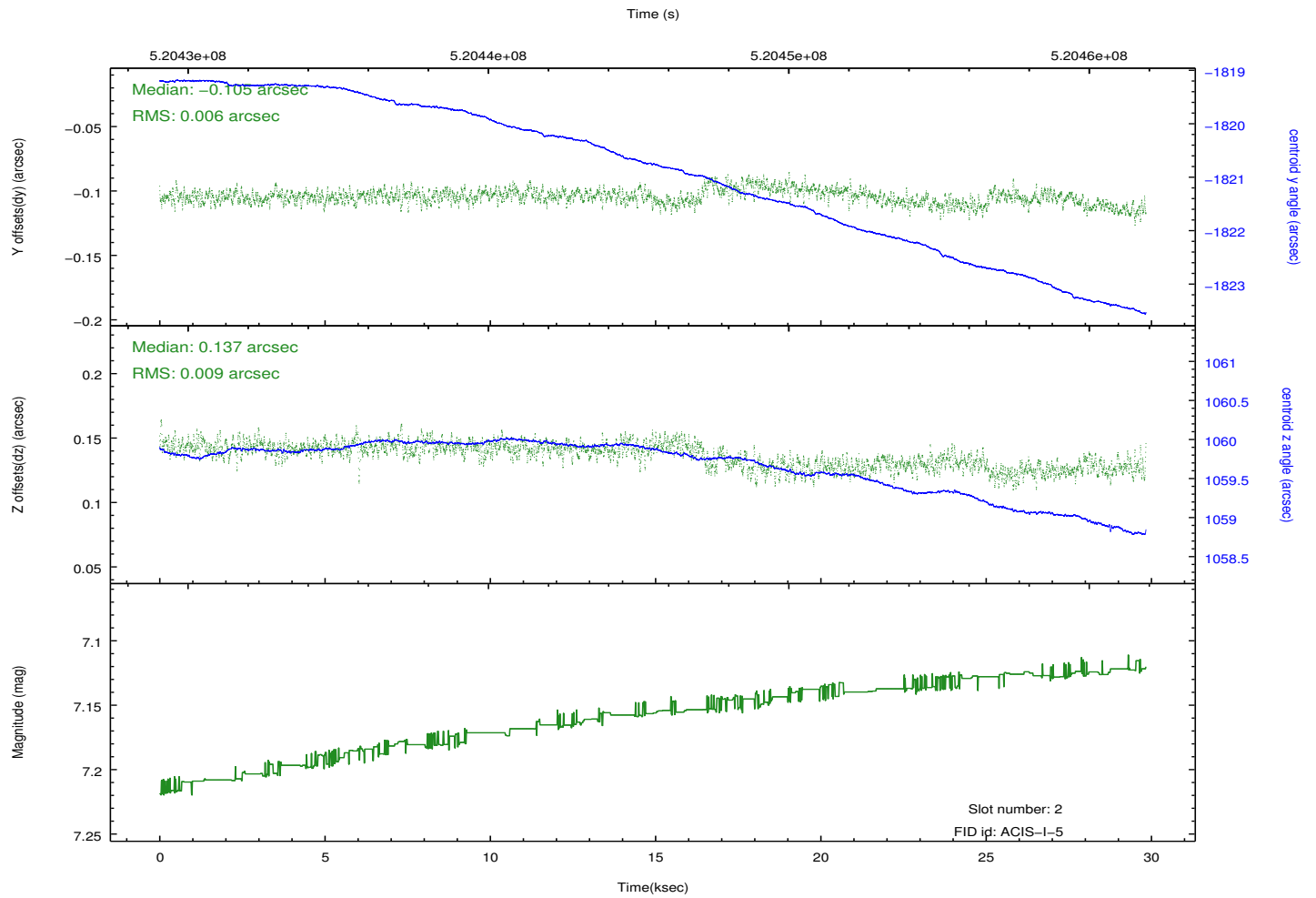
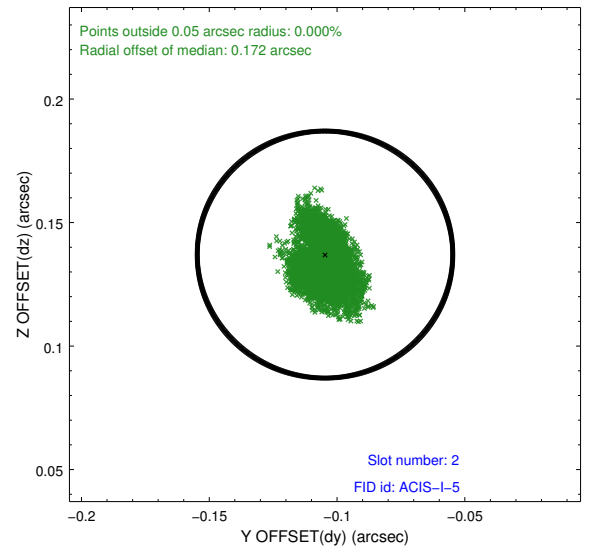
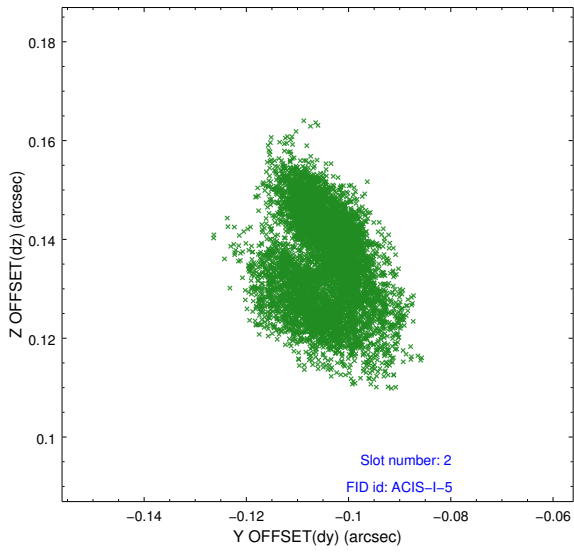
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.810795873046

## A.2 Comments

Joint proposal with Swift.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.