

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 18960 - L2 Version 1  
Chandra X-Ray Center

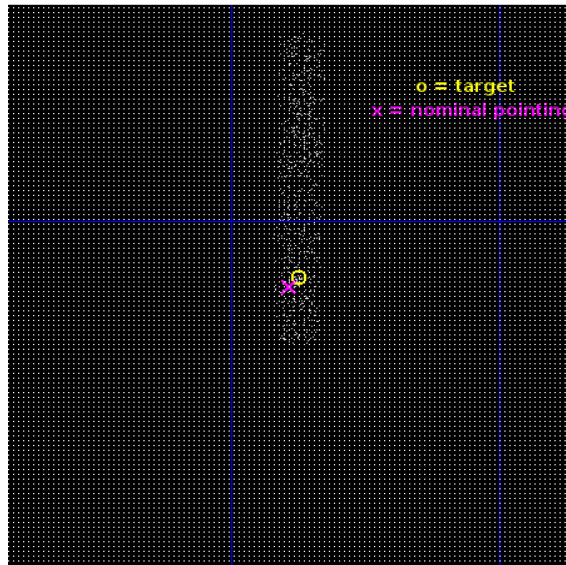
L2 Processing Date : Oct 23 2017

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# 1 Front

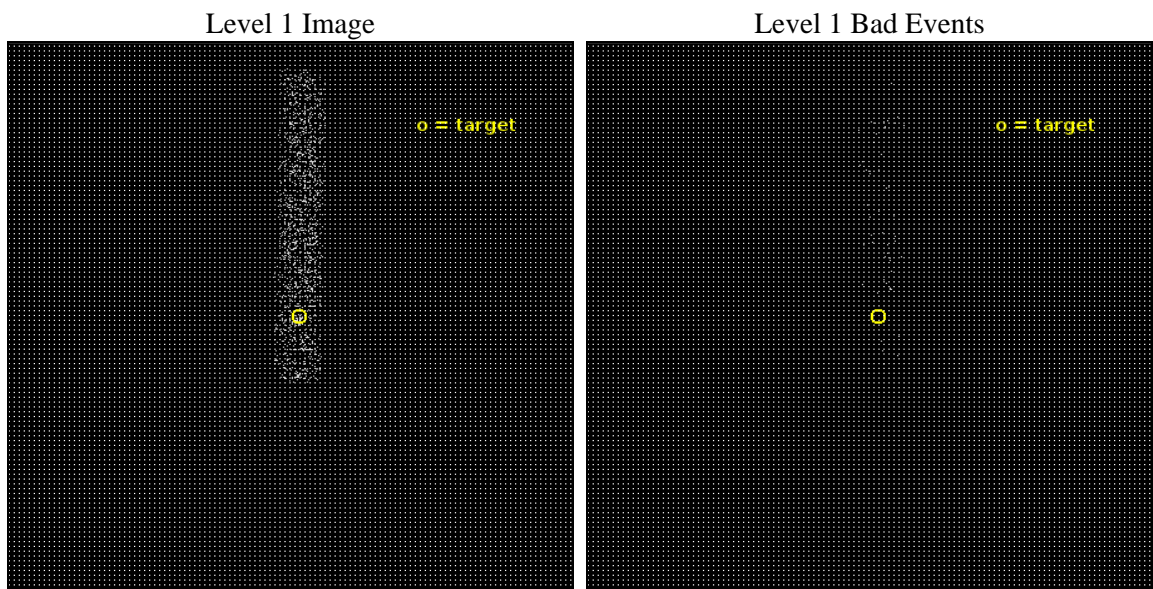
seq_num	401828	Sequence number
obs_id	18960	Observation id
title	Precise Localization of Transient Low-Mass X-ray Binaries	Proposal
observer	Deepto Chakrabarty	Principal investigator
object	SAX J1748.9-2021 field	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.218083	Observer's specified target RA [deg]
dec_targ	-20.358944	Observer's specified target Dec [deg]
ra_nom	267.22279578848	Nominal RA [deg]
dec_nom	-20.363092346425	Nominal Dec [deg]
roll_nom	271.05534006565	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1069.1999361515	Sum of GTIs [s]
livetime	969.70790508934	Livetime [s]
ontime7	1069.1999361515	Sum of GTIs [s]
l2events	664	Number of level 2 events



## 2 OBI

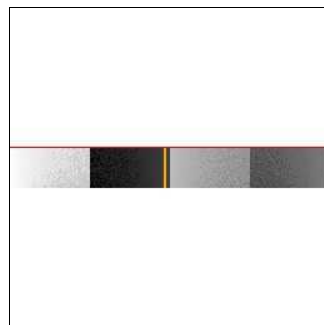
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1069.1999361515	Sum of GTIs [s]
caldsver	4.7.6	&#160	ontime7	1069.1999361515	Sum of GTIs [s]
date	2017-10-24T01:07:50	Date and time of file creation	l1events	1315	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

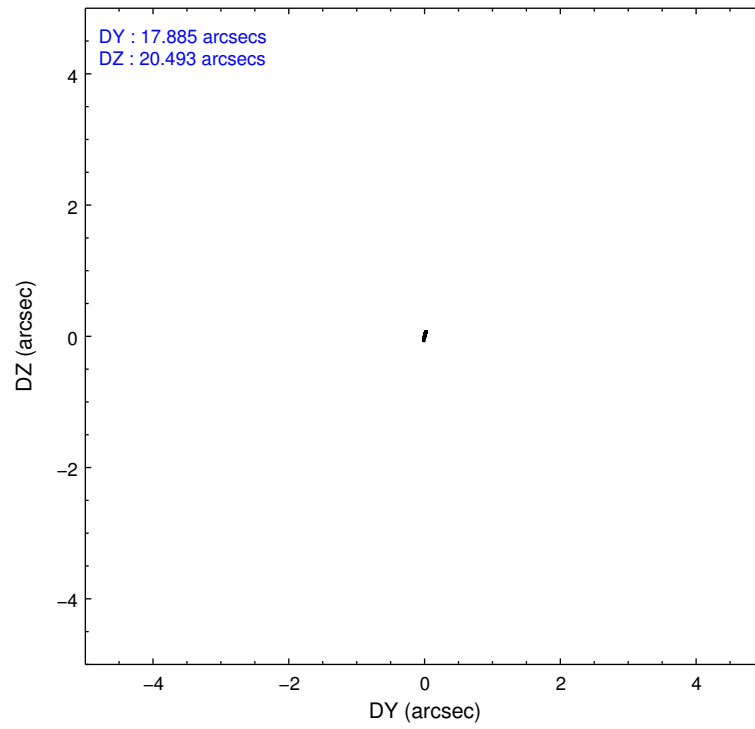
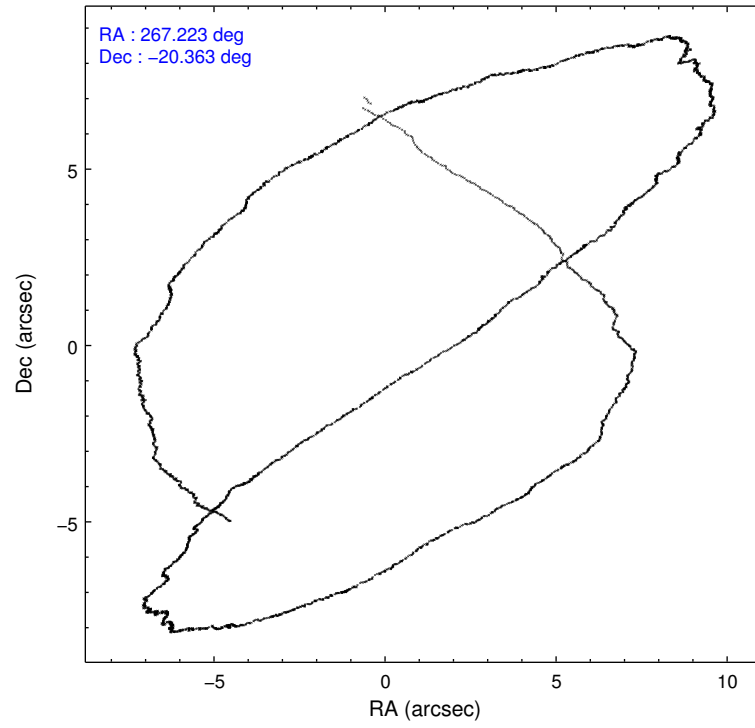
	<b>ccd 7</b>
level 1 events	1315
rejected events	624
rejected %	47%

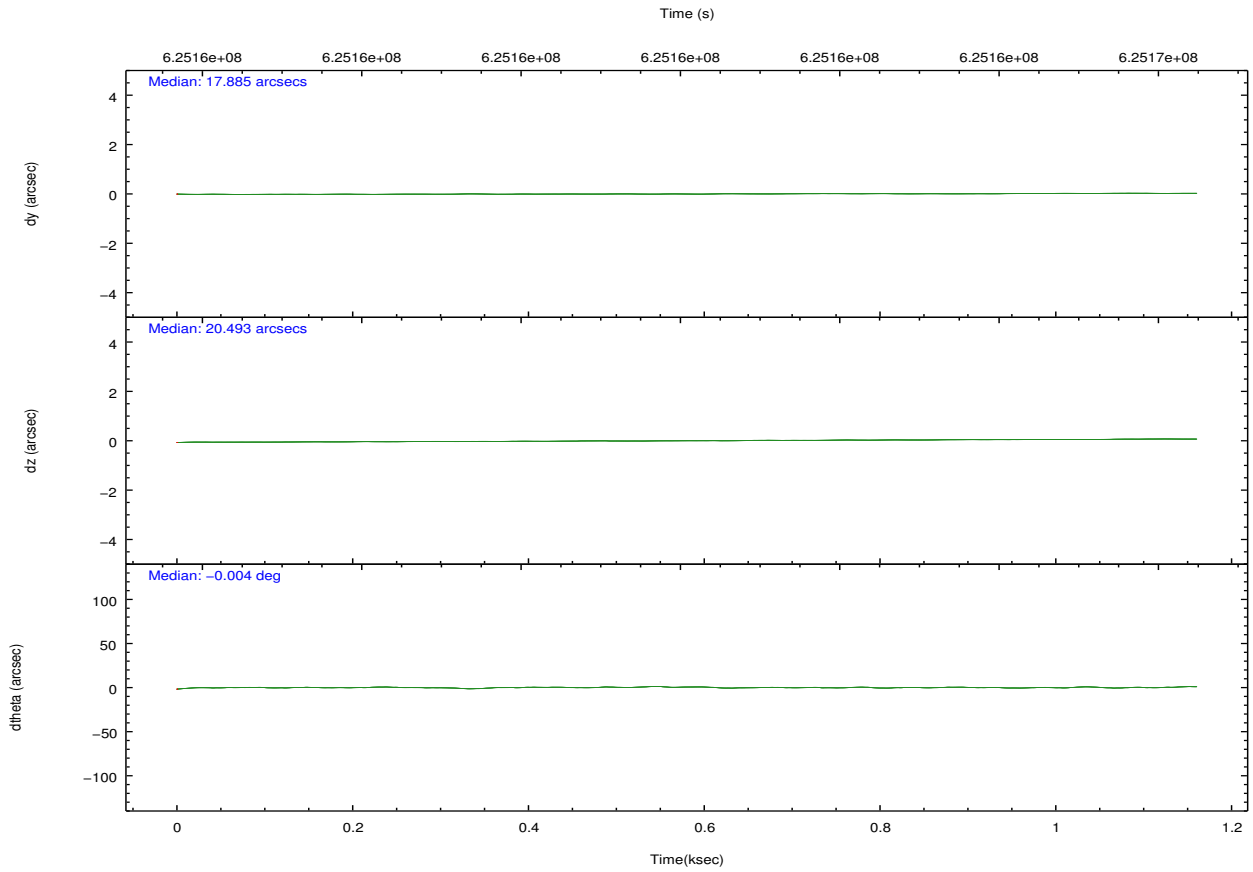
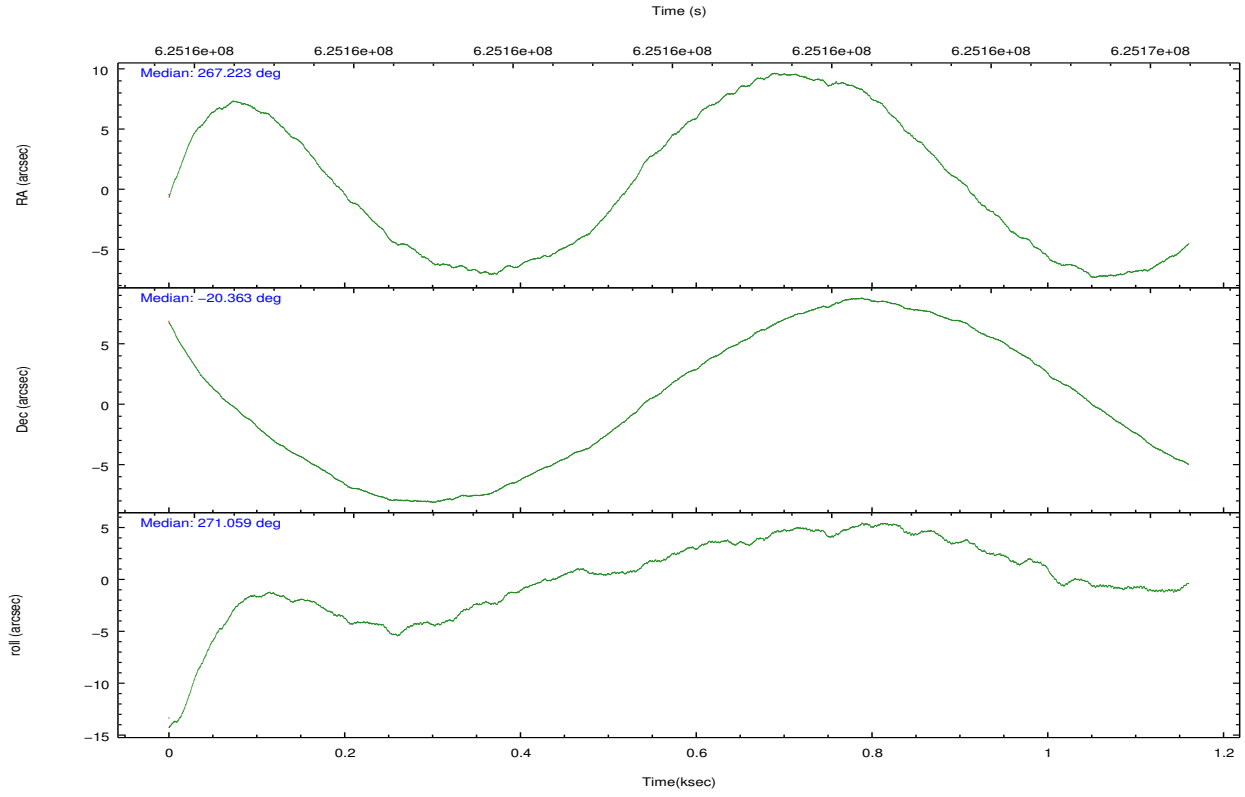
	<b>ccd 7</b>
grade 0 events	78
	5%
grade 1 events	3
	0%
grade 2 events	140
	10%
grade 3 events	103
	7%
grade 4 events	87
	6%
grade 5 events	129
	9%
grade 6 events	283
	21%
grade 7 events	492
	37%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.207562	267.222795788478	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-20.339764	-20.36309234642508	Subarray start row	449	449
[deg] Pointing Roll	270.893617	271.0553400656513	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	625164183.184000	625162978.80046			
Observation start date	2017-10-23T16:41:54	2017-10-23T16:22:58			
[s] Observation end time (MET)	625165183.184000	625166276.22565			
Observation end date	2017-10-23T16:58:34	2017-10-23T17:17:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect





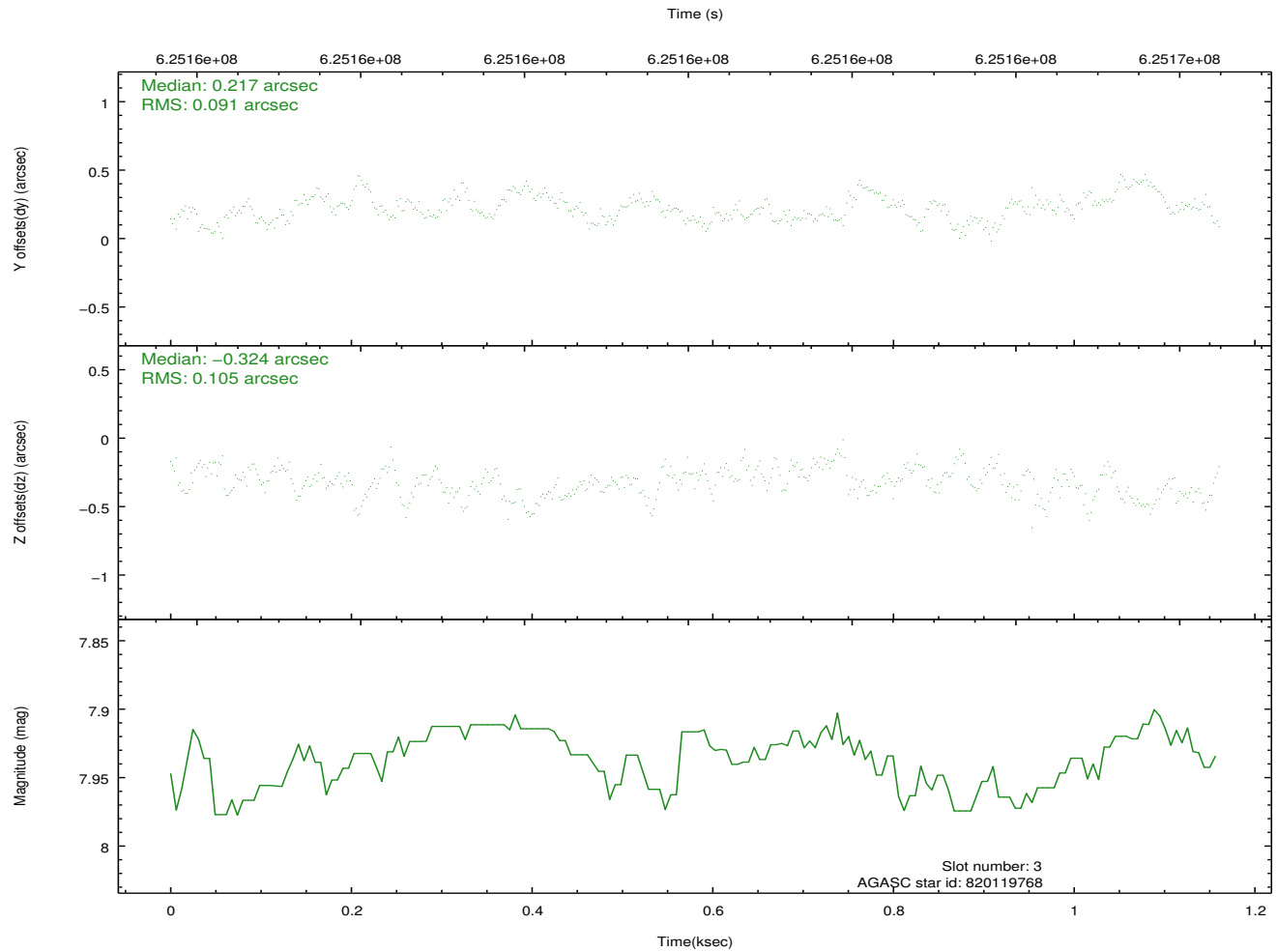
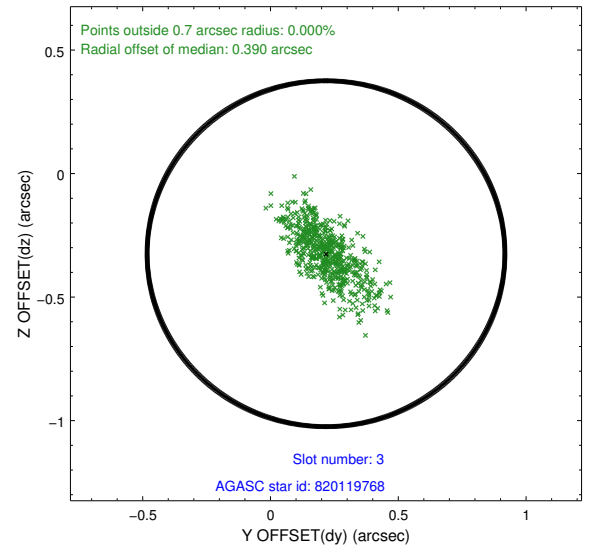
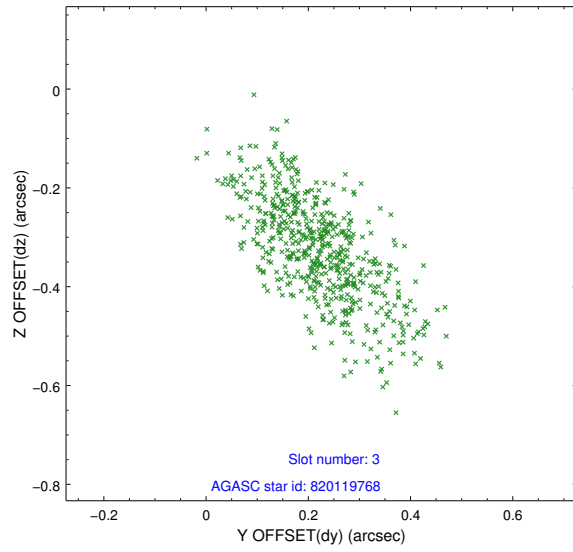
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.04	284	0.205	-0.026	0.007	0.010	0.000000	0.000000	925.26	-1737.70
1	FID		ACIS-S-2	6.96	284	-0.249	-0.082	0.006	0.010	0.000000	0.000000	-767.92	-1748.22
2	FID		ACIS-S-6	7.20	284	0.024	0.112	0.006	0.011	0.000000	0.000000	388.17	797.80
3	GUIDE	used	820119768	7.93	567	0.217	-0.324	0.142	0.260	267.398392	-20.006729	-1187.74	664.60
4	GUIDE	used	820121744	6.70	567	0.251	0.483	0.108	0.201	267.173633	-19.779615	-2019.93	-80.87
5	GUIDE	used	820641816	7.19	566	0.045	-0.135	0.129	0.231	267.363435	-20.830907	1773.04	497.16
6	GUIDE	used	820643312	8.50	567	-0.206	-0.122	0.137	0.222	267.616726	-20.709653	1357.66	1358.38
7	GUIDE	used	820644800	8.82	566	-0.315	0.108	0.134	0.226	267.803773	-20.964535	2286.10	1972.20

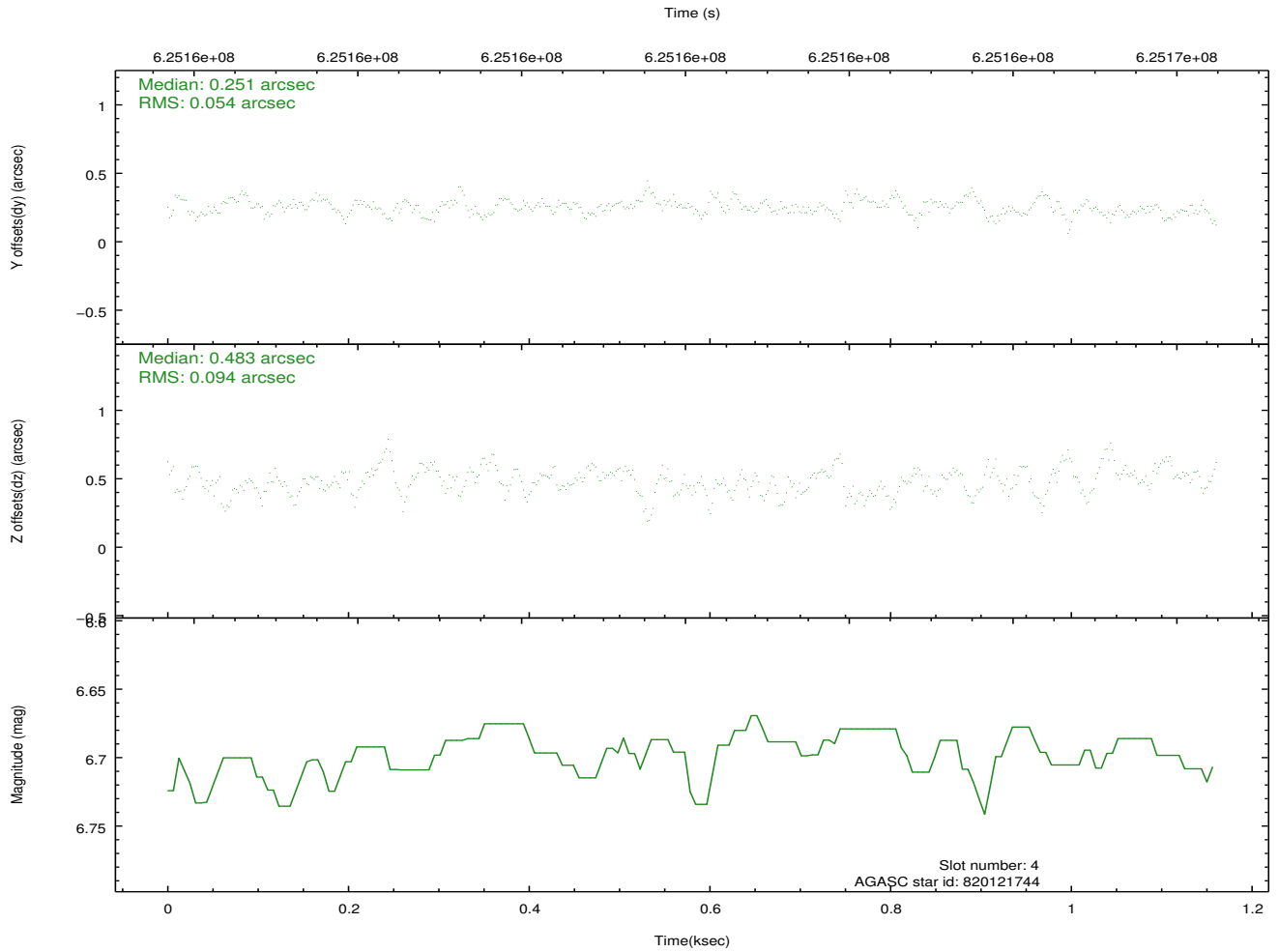
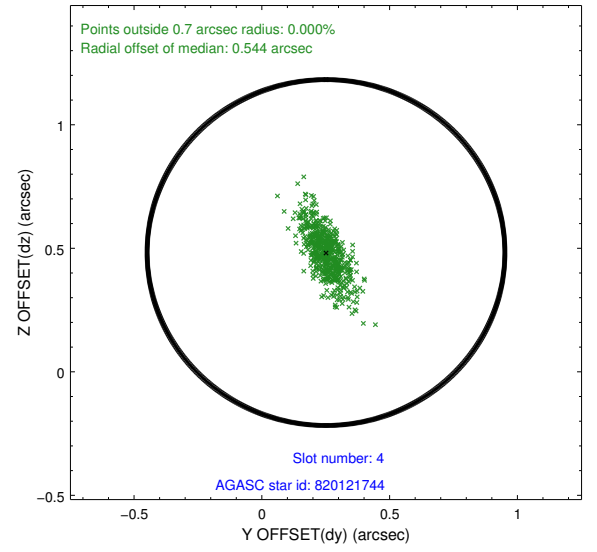
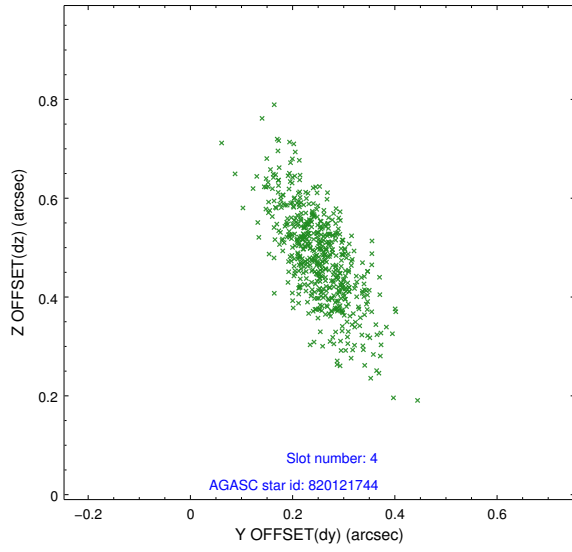


## 2.4 Star Slots

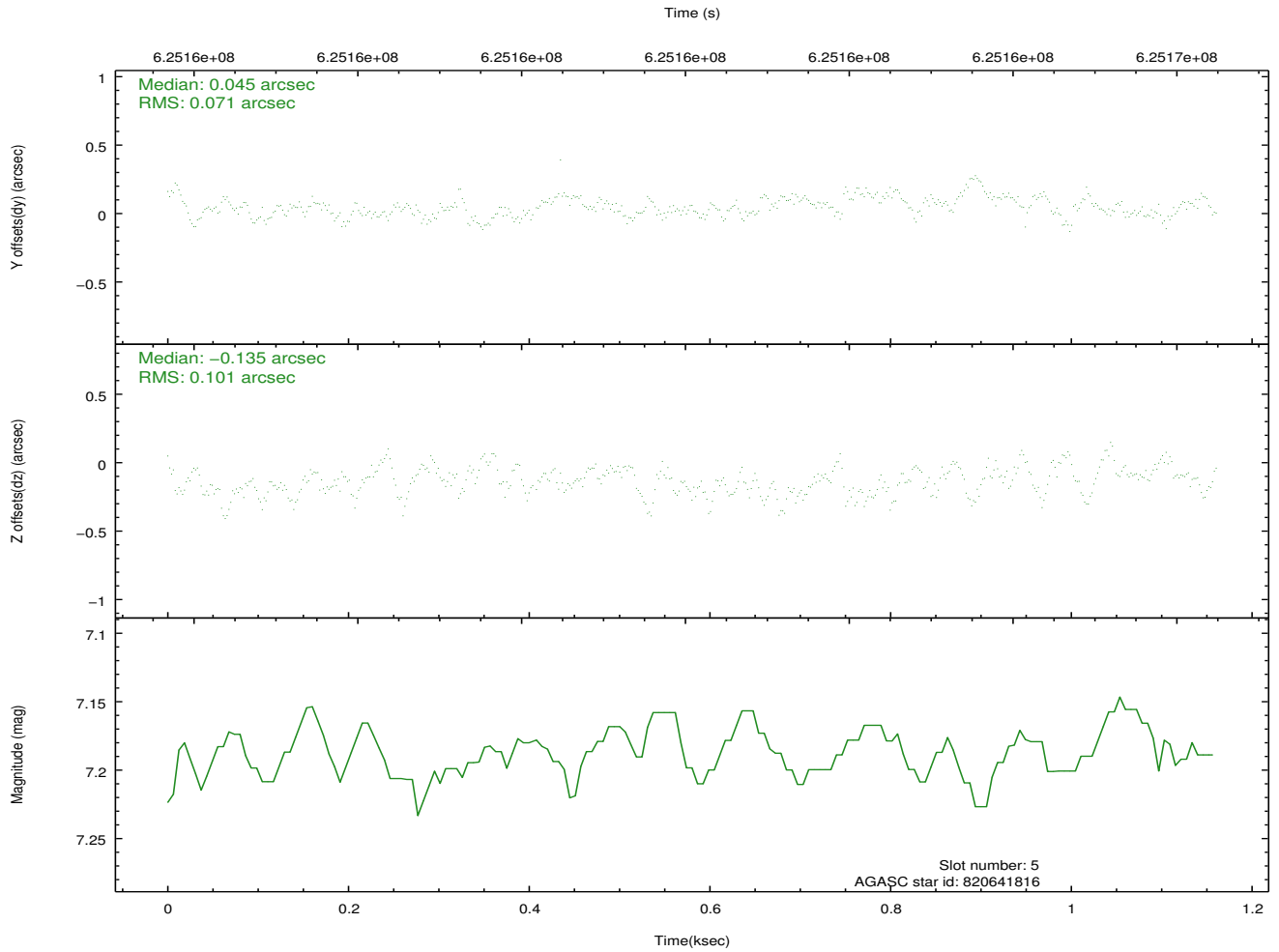
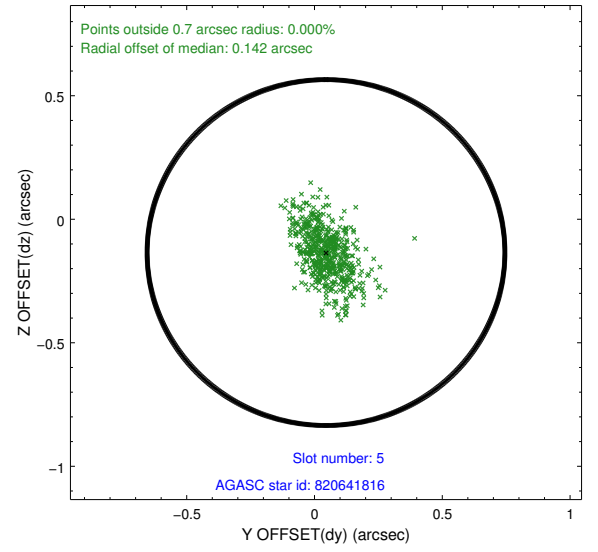
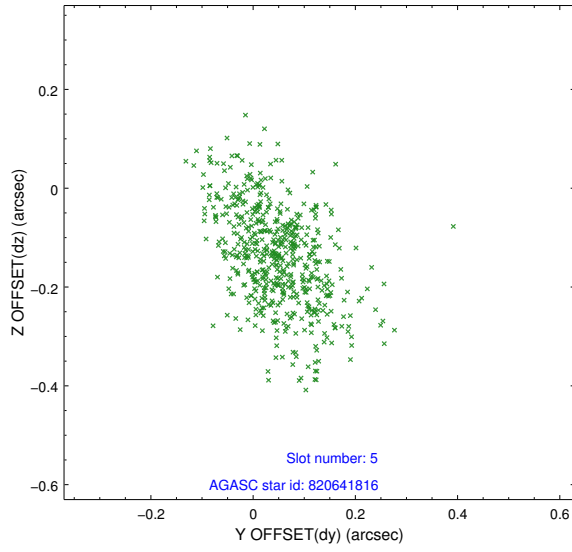
### 2.4.1 Slot 3



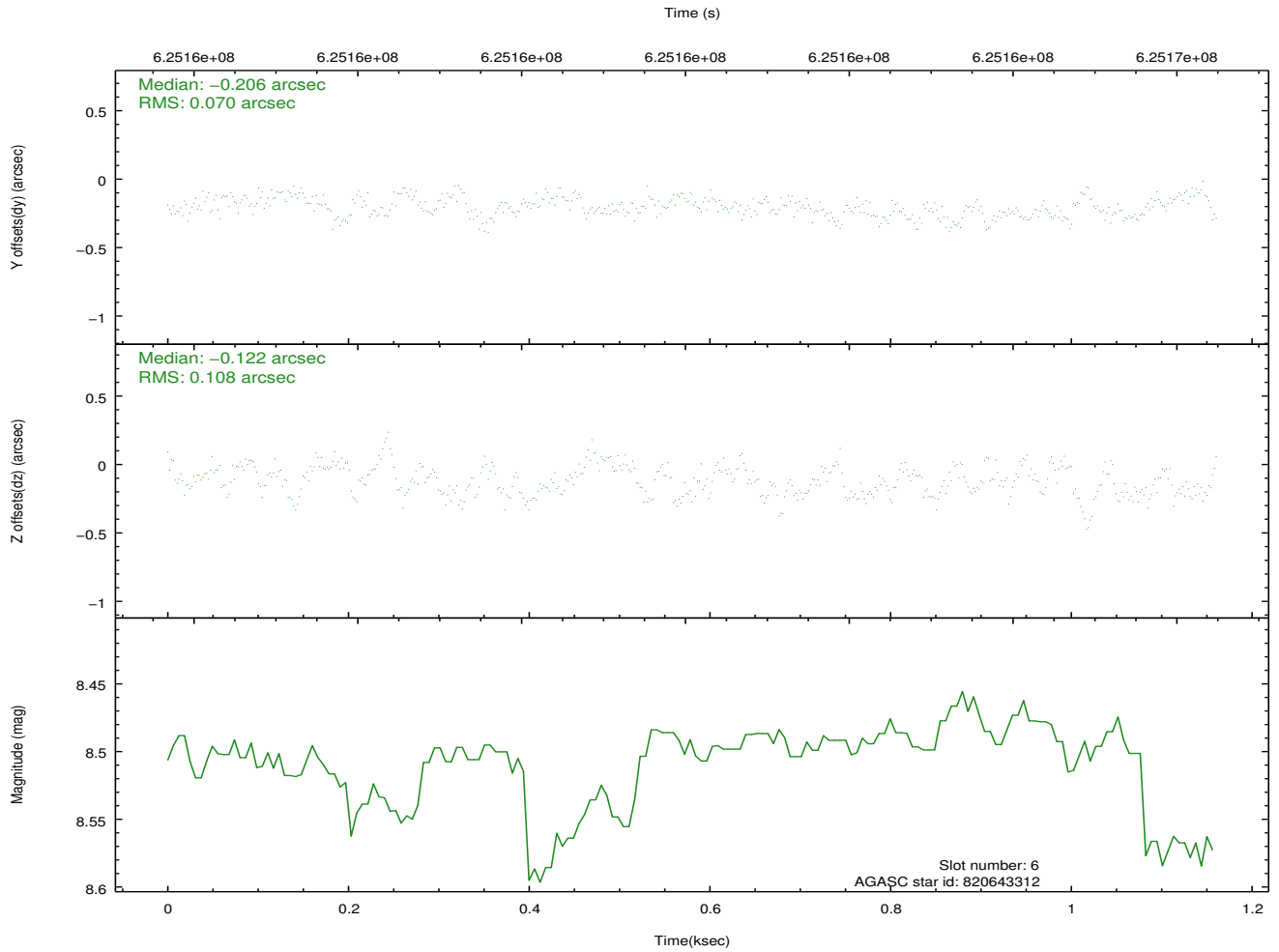
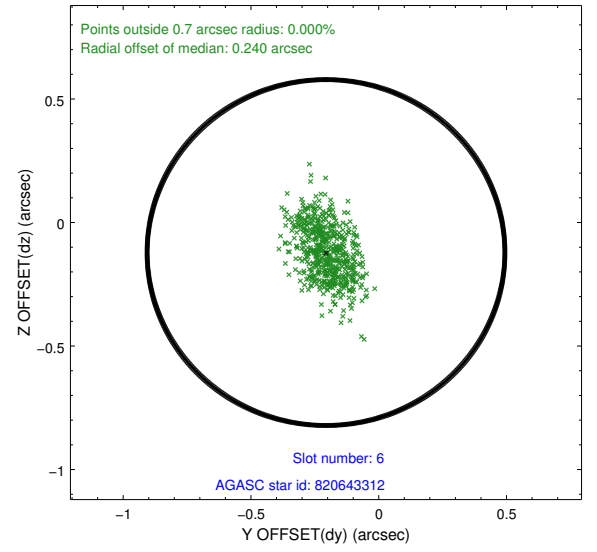
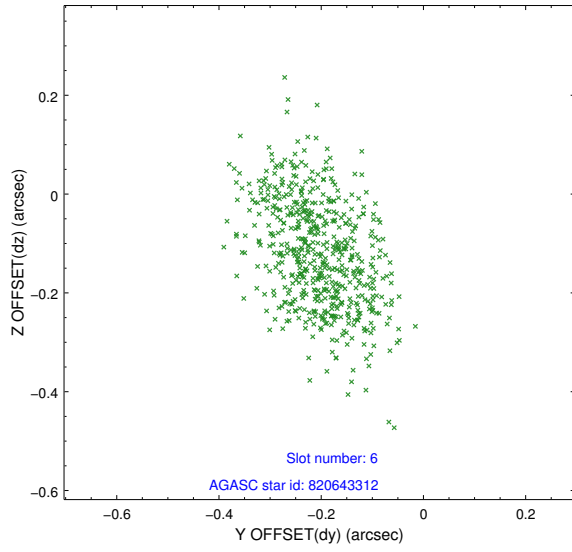
## 2.4.2 Slot 4



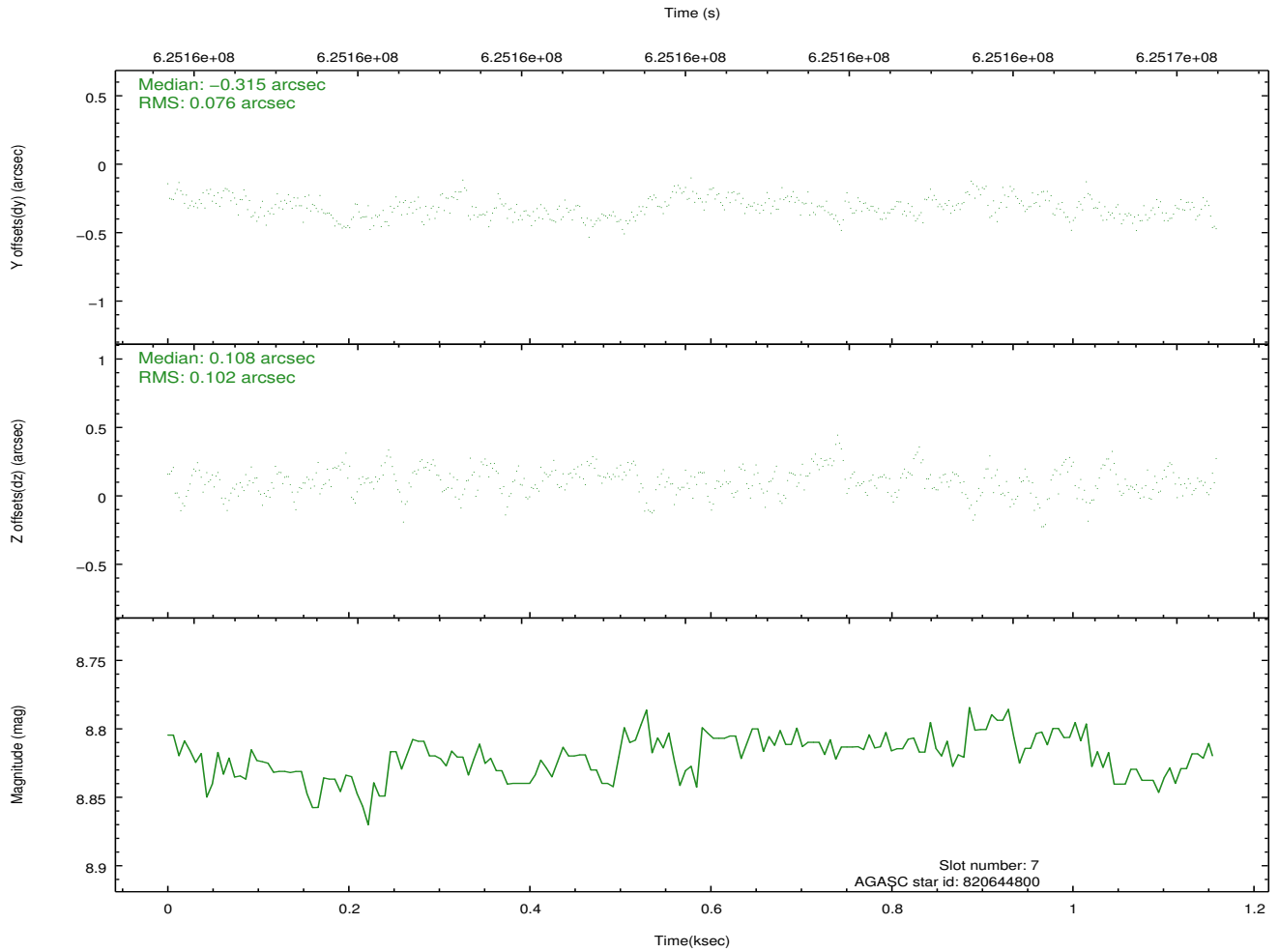
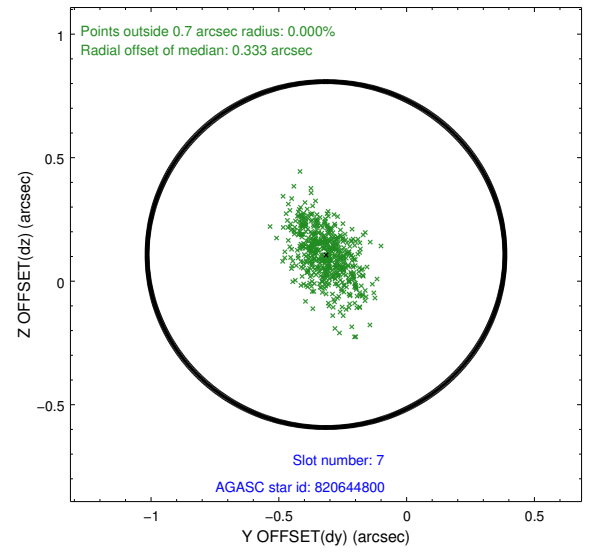
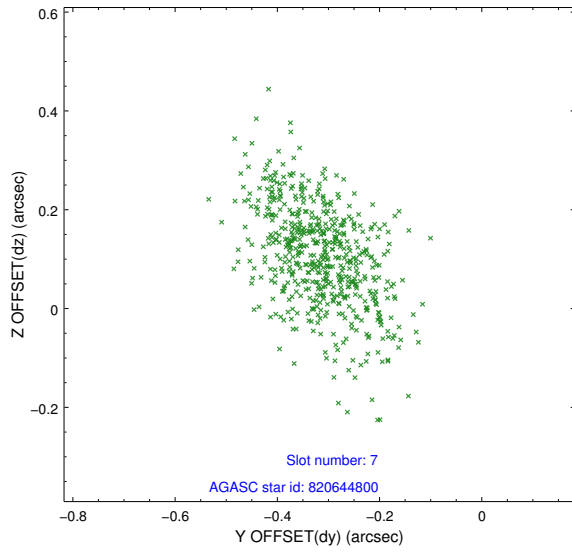
### 2.4.3 Slot 5



## 2.4.4 Slot 6

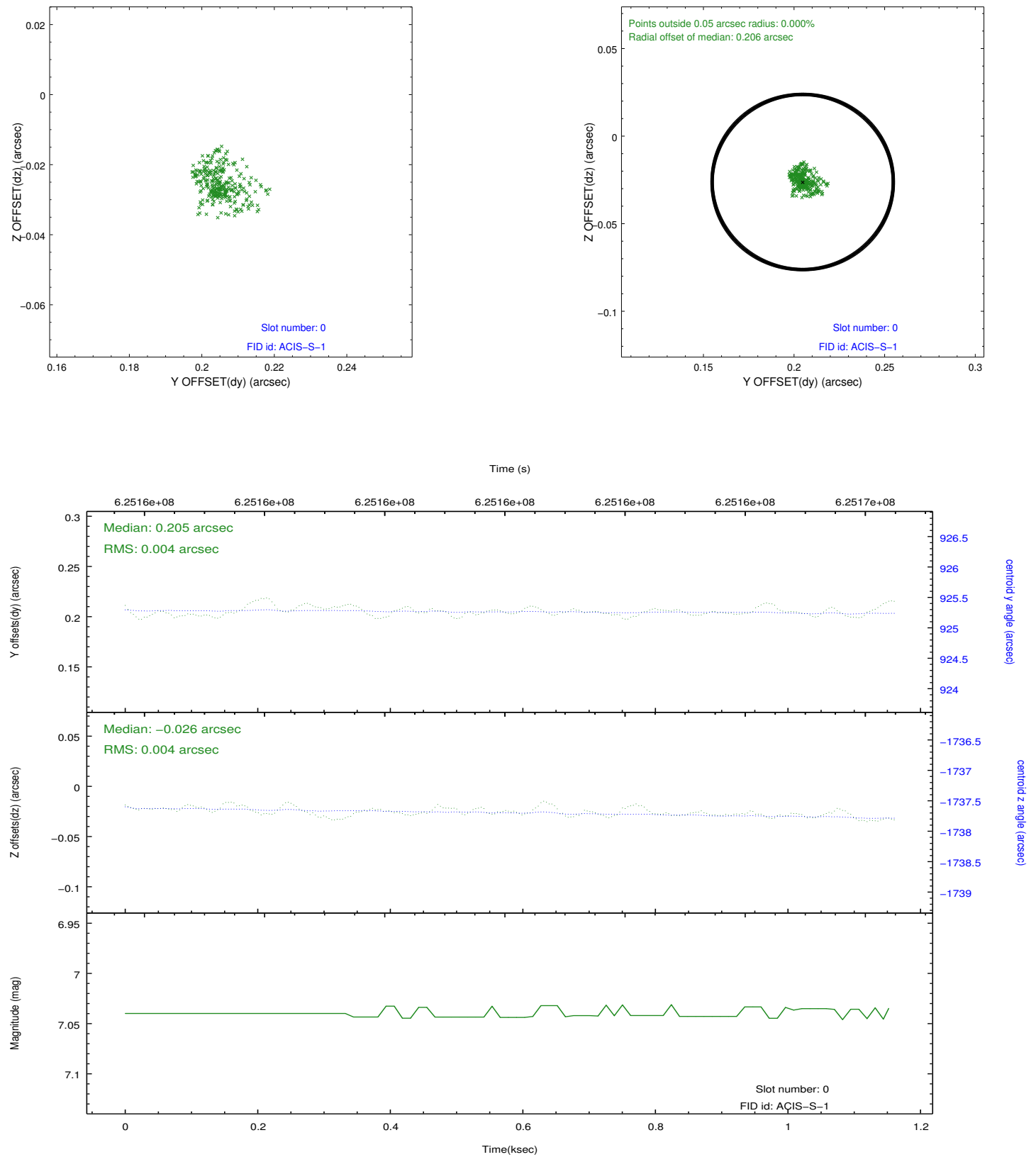


## 2.4.5 Slot 7

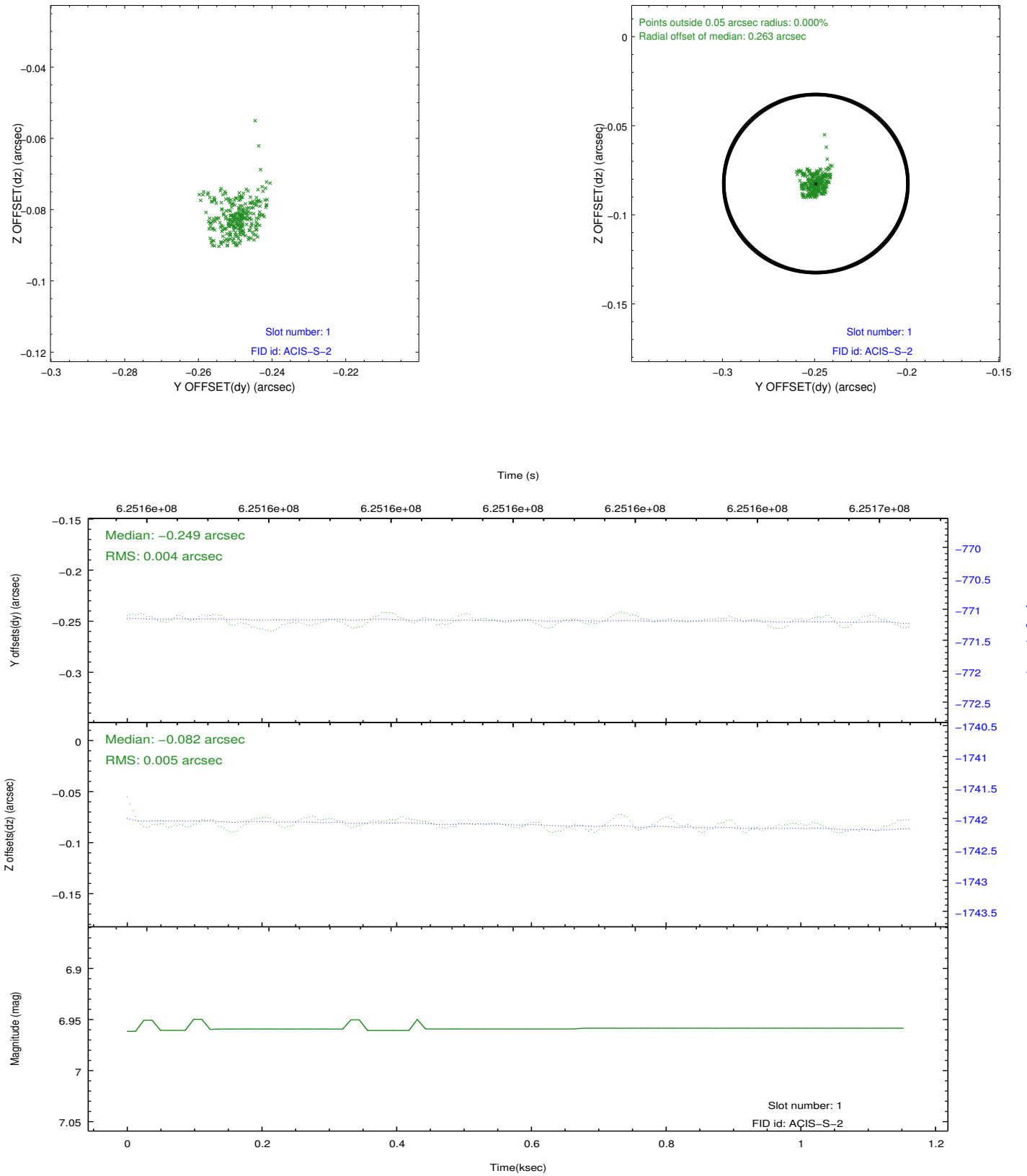


## 2.5 FID Slots

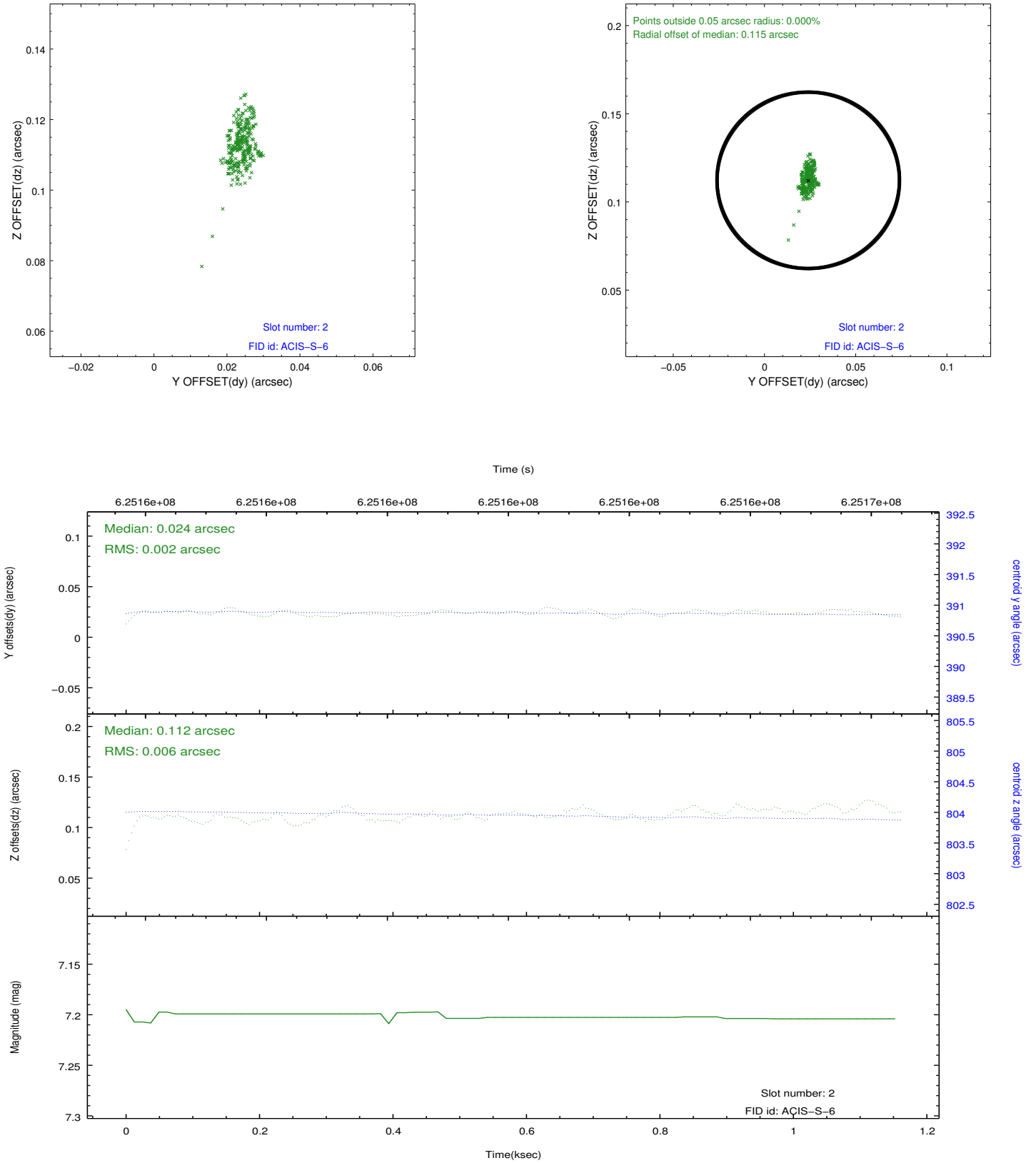
### 2.5.1 Slot 0



## 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)	2017.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0691999361515

### A.2 Comments