

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18420 - L2 Version 1  
Chandra X-Ray Center

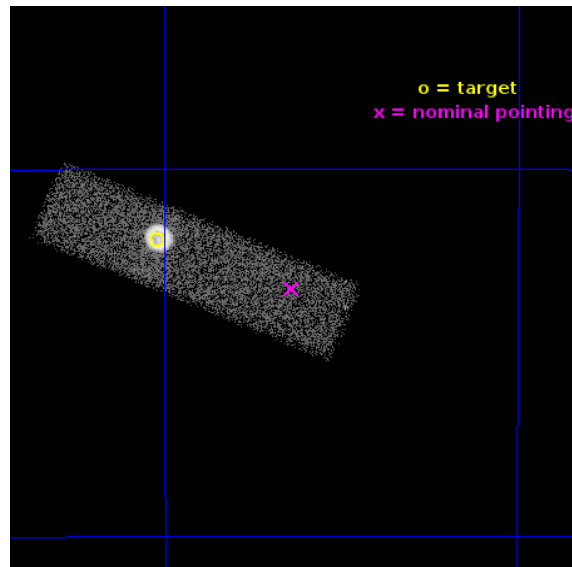
L2 Processing Date : Mar 14 2016

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# 1 Front

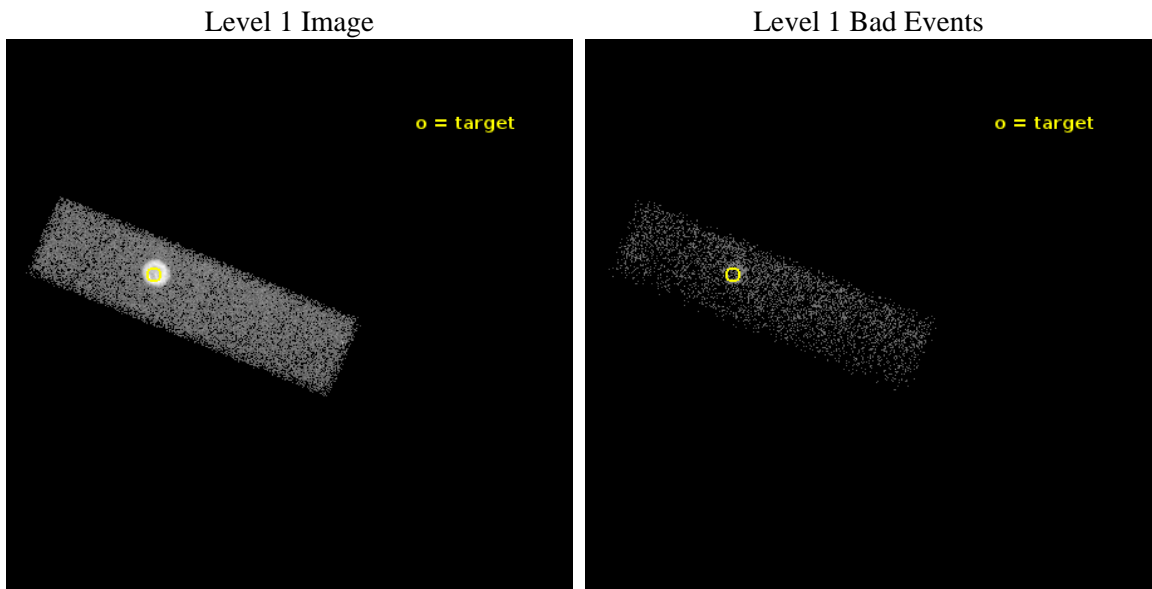
seq_num	590550	Sequence number
obs_id	18420	Observation id
title	AO-17 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S3,-120,1,0,0	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.820100648163	Nominal RA [deg]
dec_nom	-72.05442593956	Nominal Dec [deg]
roll_nom	203.19477593325	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20063.998804092	Sum of GTIs [s]
livetime	19084.941314651	Livetime [s]
ontime7	20063.998804092	Sum of GTIs [s]
l2events	53891	Number of level 2 events



## 2 OBI

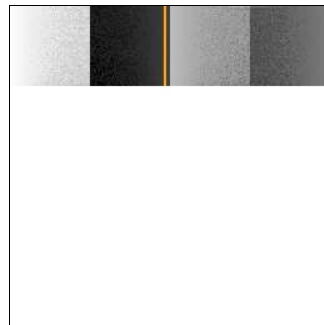
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	20063.998804092	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime7	20063.998804092	Sum of GTIs [s]
date	2016-03-14T15:31:21	Date and time of file creation	l1events	71683	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

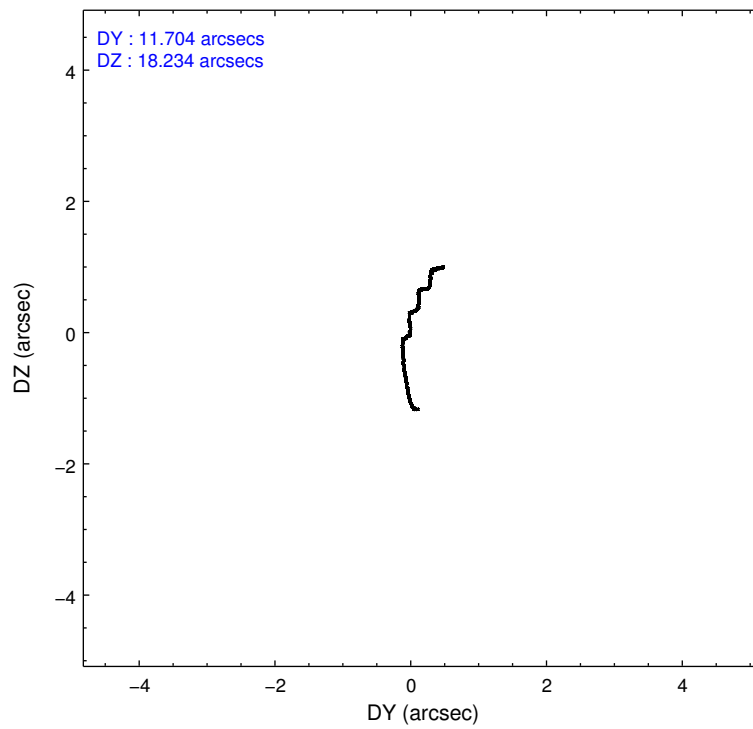
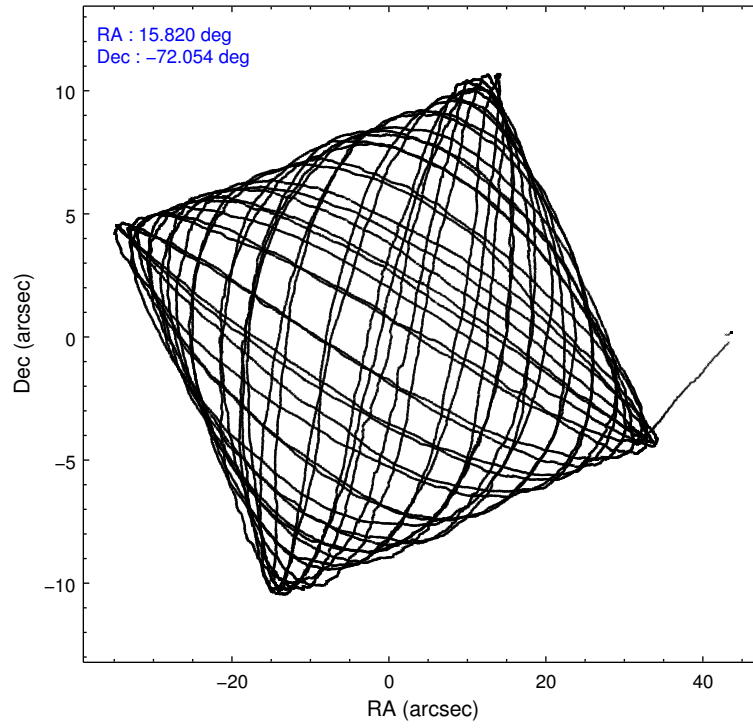
	<b>ccd 7</b>
level 1 events	71683
rejected events	17047
rejected %	<b>23%</b>

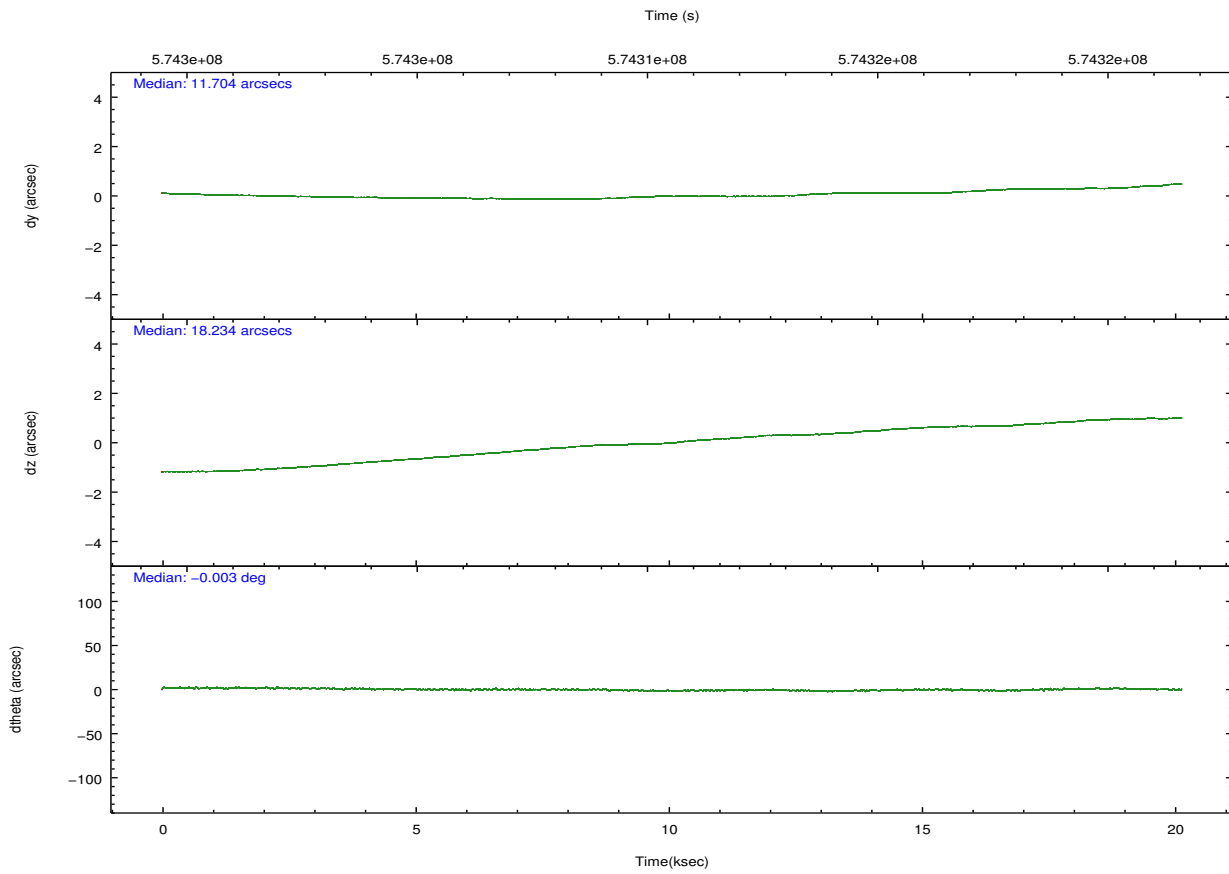
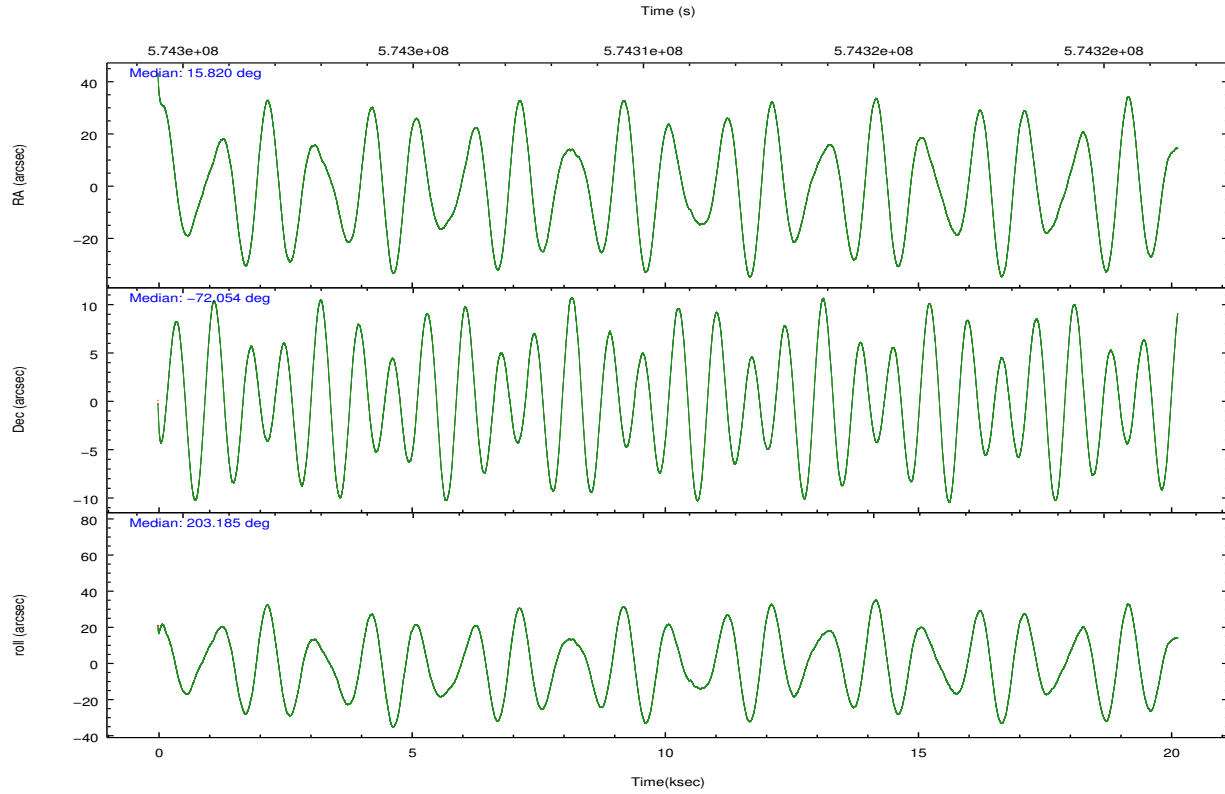
	<b>ccd 7</b>
grade 0 events	14588
	20%
grade 1 events	84
	0%
grade 2 events	13879
	19%
grade 3 events	6400
	8%
grade 4 events	6245
	8%
grade 5 events	3876
	5%
grade 6 events	13531
	18%
grade 7 events	13080
	18%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.872383	15.82010064816288	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.032218	-72.05442593955998	Subarray start row	769	769
[deg] Pointing Roll	203.087899	203.1947759332495	Subarray row count	256	256
[s] Window start time (MET)	570672068.184000	570672068.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	575769668.184000	575769668.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-200.662523	-200.6624755869005			
[mm] SIM translation stage offset	10.53	10.52995300389267			
[s] Observation start time (MET)	574300600.184000	574299472.6089799			
Observation start date	2016-03-13T23:55:32	2016-03-13T23:37:52			
[s] Observation end time (MET)	574320600.184000	574320734.1851799			
Observation end date	2016-03-14T05:28:52	2016-03-14T05:32:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect





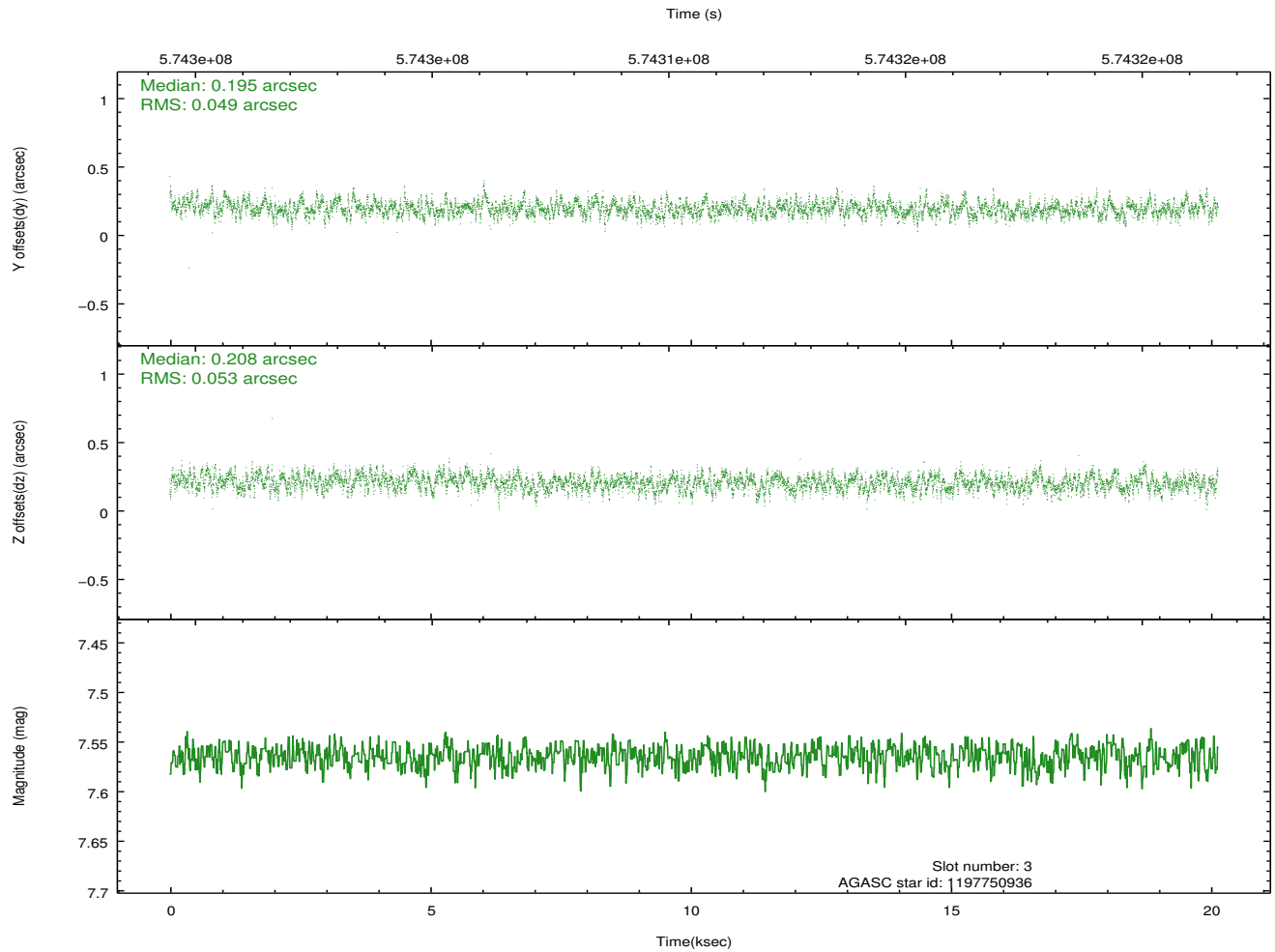
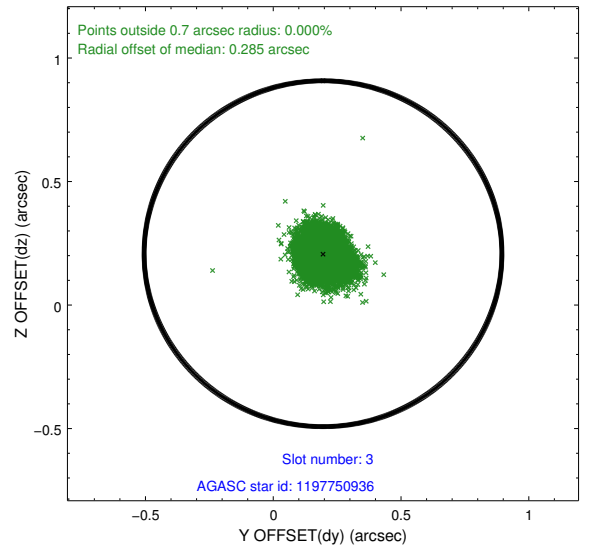
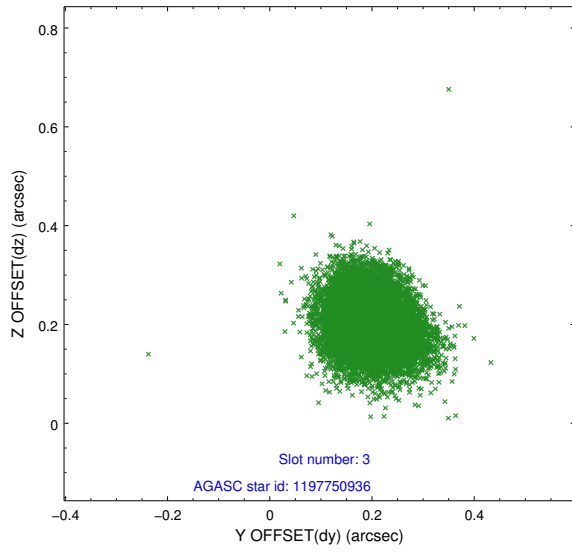
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.16	4912	-0.055	0.065	0.012	0.021	0.000000	0.000000	-765.35	-1522.51
1	FID		ACIS-S-4	7.24	4913	0.358	0.010	0.008	0.014	0.000000	0.000000	2148.29	385.73
2	FID		ACIS-S-5	7.24	4913	-0.335	-0.064	0.010	0.016	0.000000	0.000000	-1818.20	379.61
3	GUIDE	used	1197750936	7.56	9826	0.195	0.208	0.077	0.122	15.387940	-71.549550	-171.64	-1811.79
4	GUIDE	used	1197884712	8.28	9824	-0.141	-0.071	0.094	0.150	16.087398	-72.252690	94.55	823.09
5	GUIDE	used	1197885104	9.30	9811	0.133	0.031	0.126	0.213	17.845067	-72.189368	-1760.66	1405.52
6	GUIDE	used	1197885328	7.23	9824	0.109	0.251	0.091	0.144	16.283090	-71.733943	-848.01	-804.24
7	GUIDE	used	1198189696	7.33	9824	-0.306	-0.413	0.102	0.162	15.223750	-72.697522	1579.20	1934.64

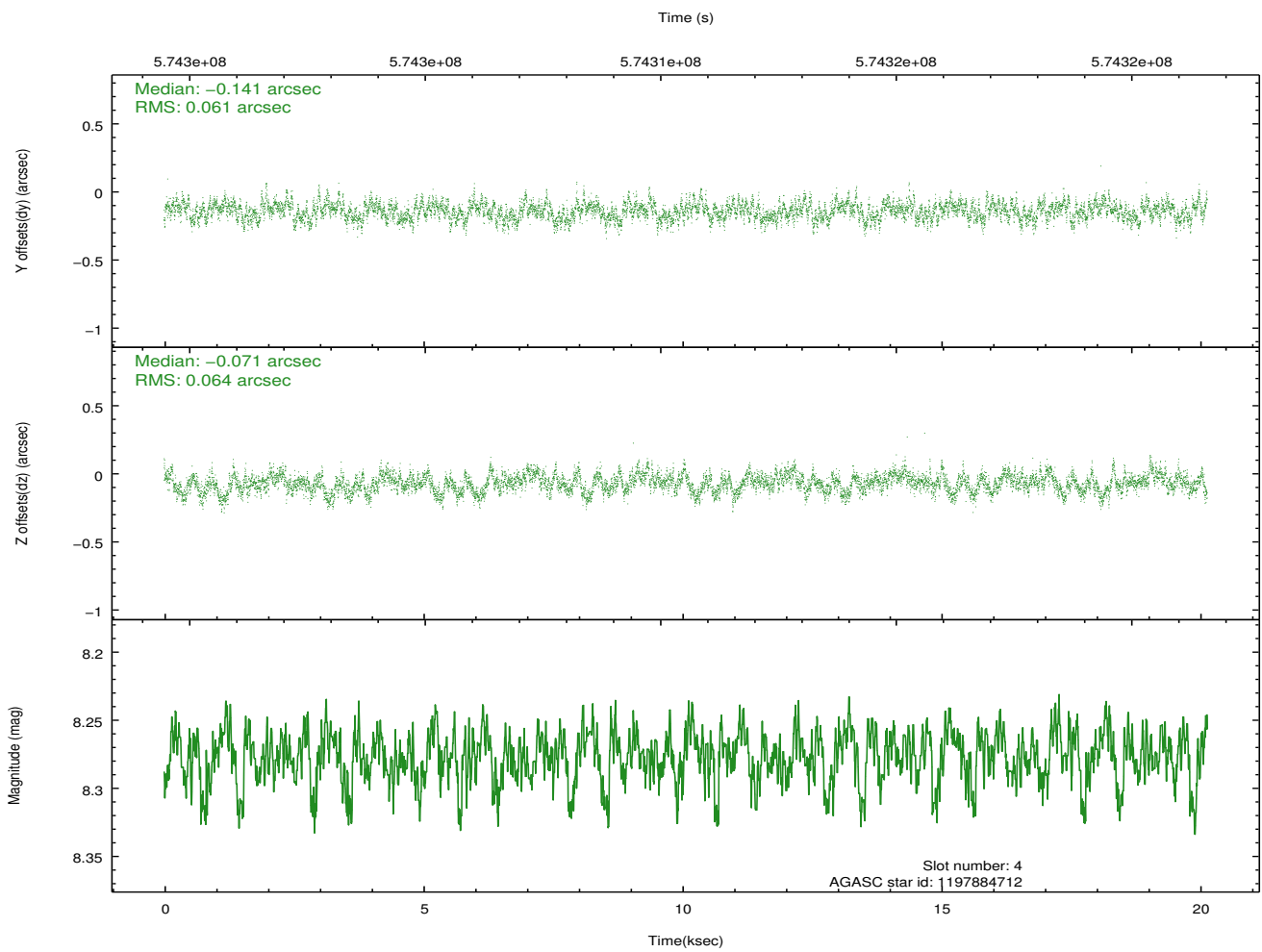
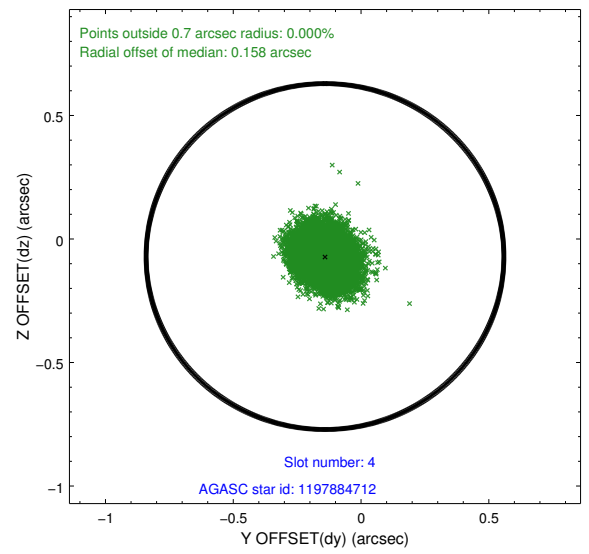
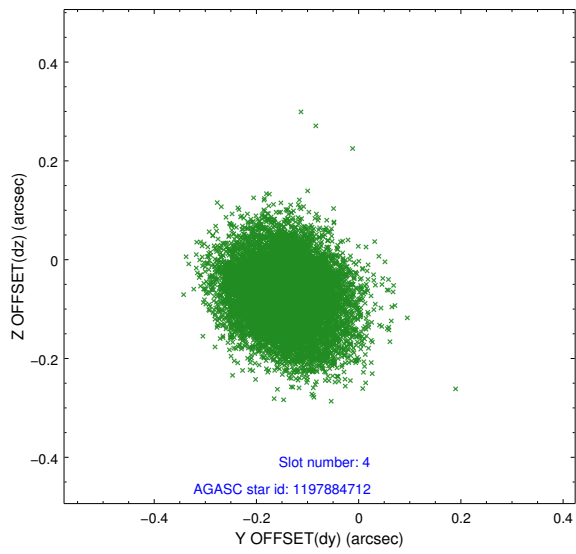
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## 2.4 Star Slots

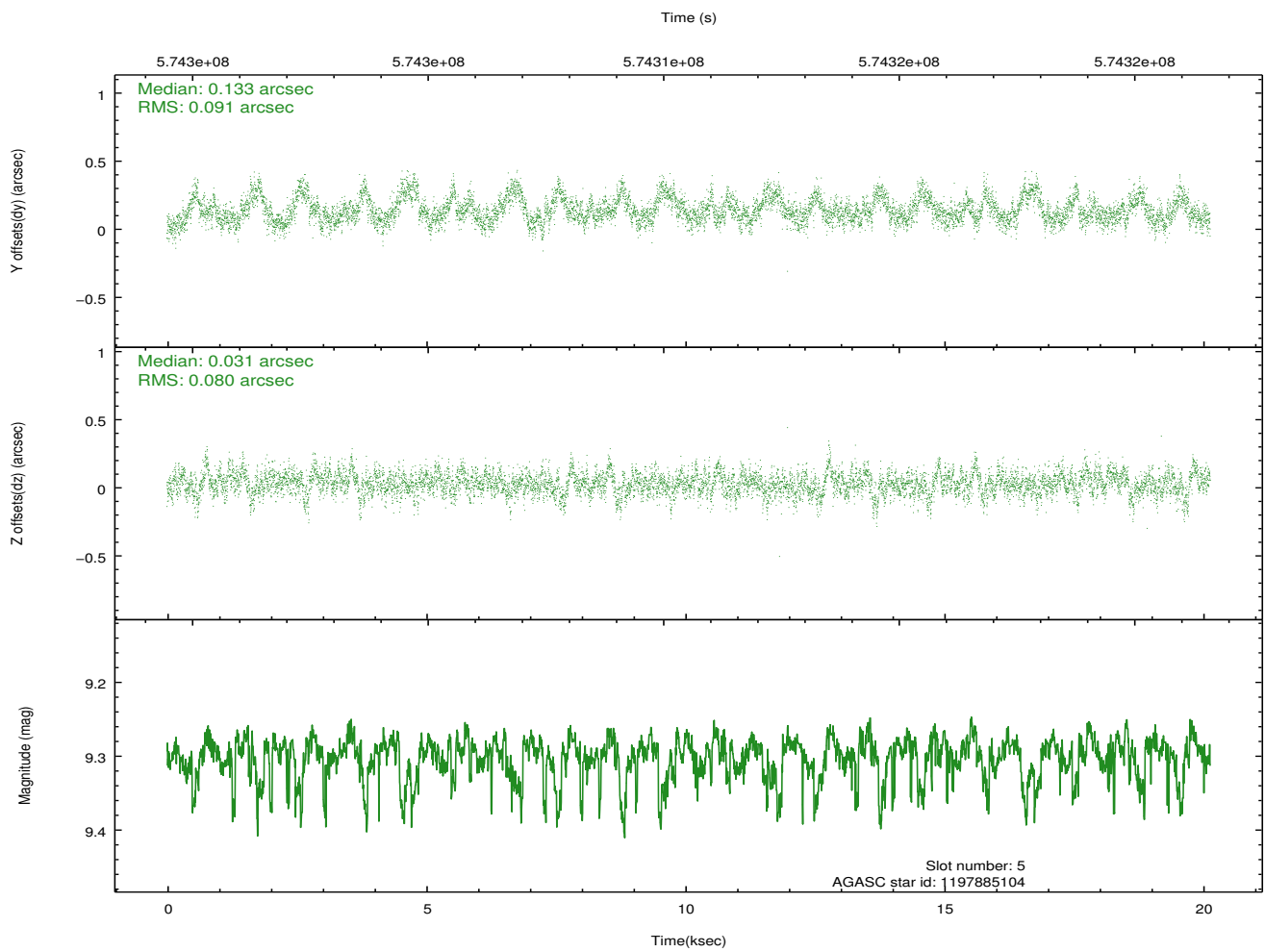
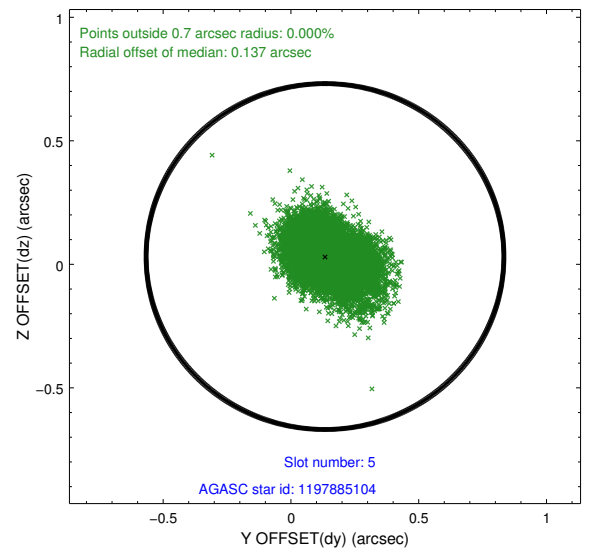
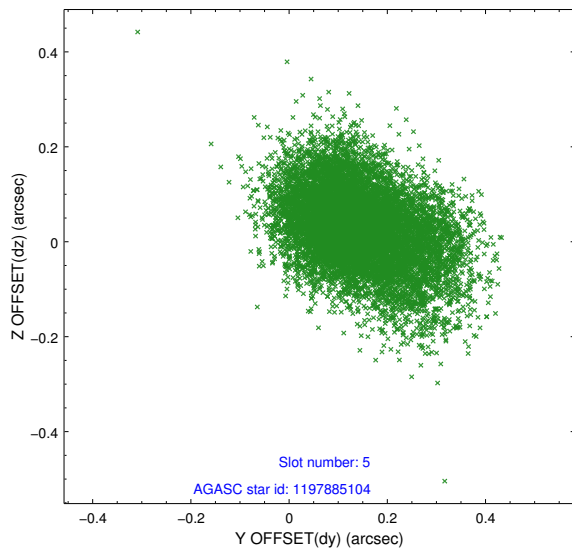
### 2.4.1 Slot 3



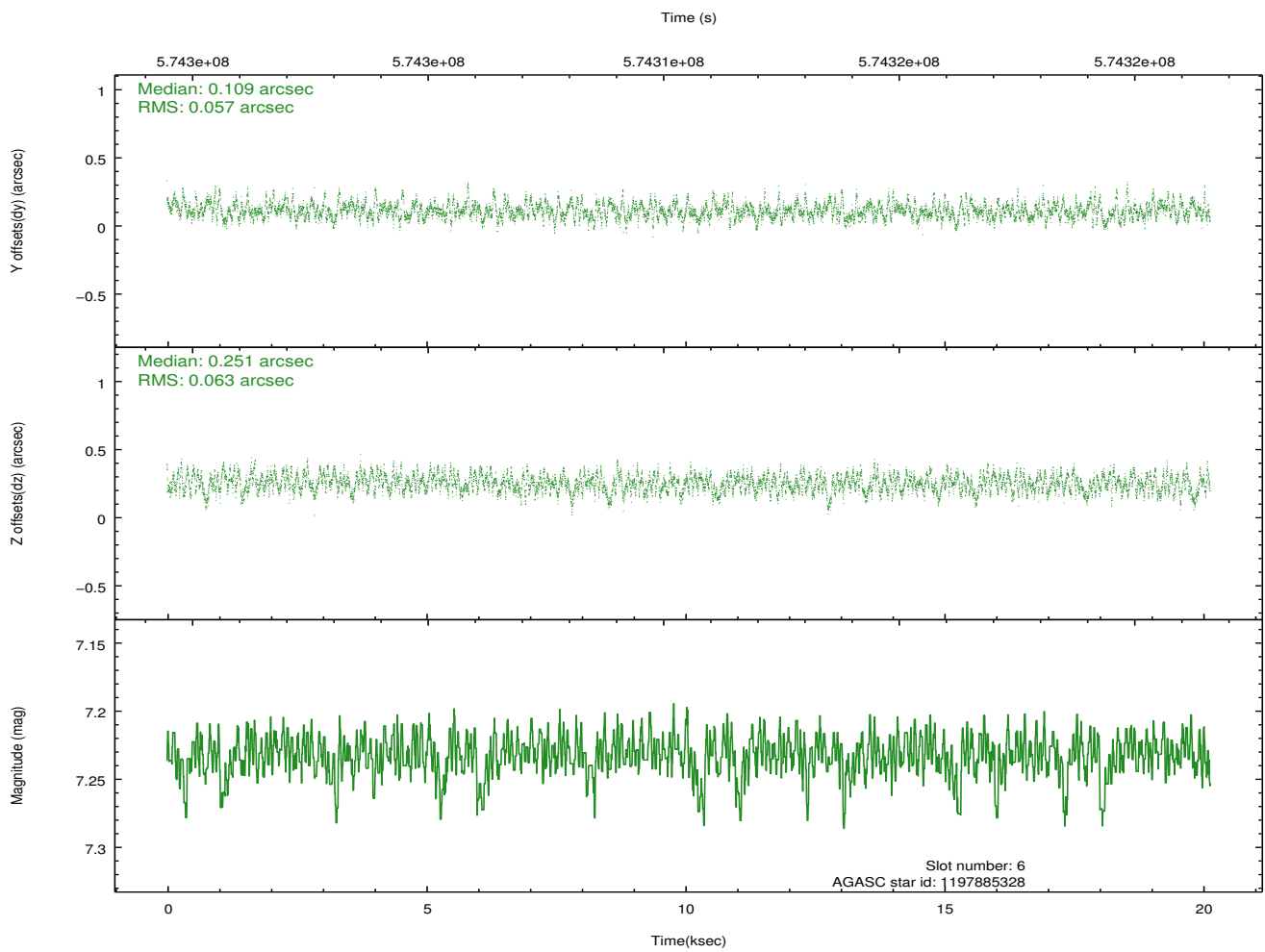
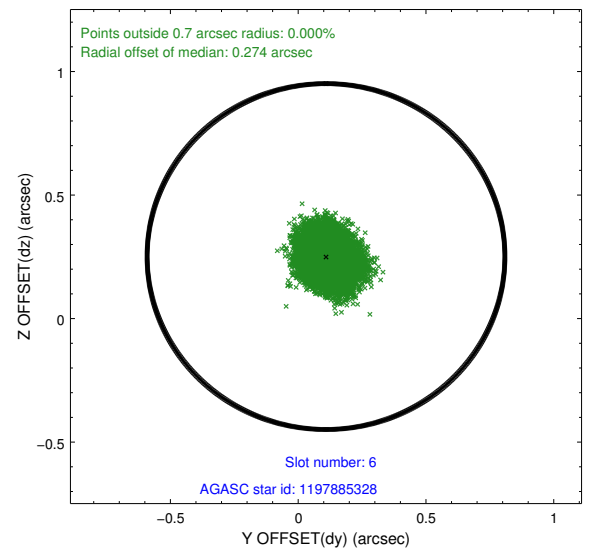
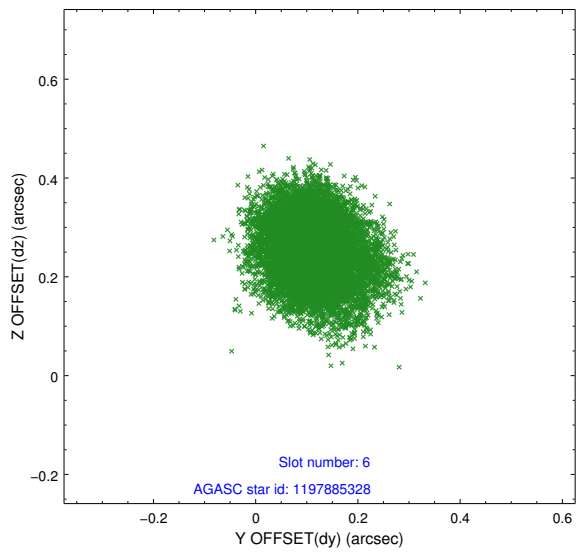
## 2.4.2 Slot 4



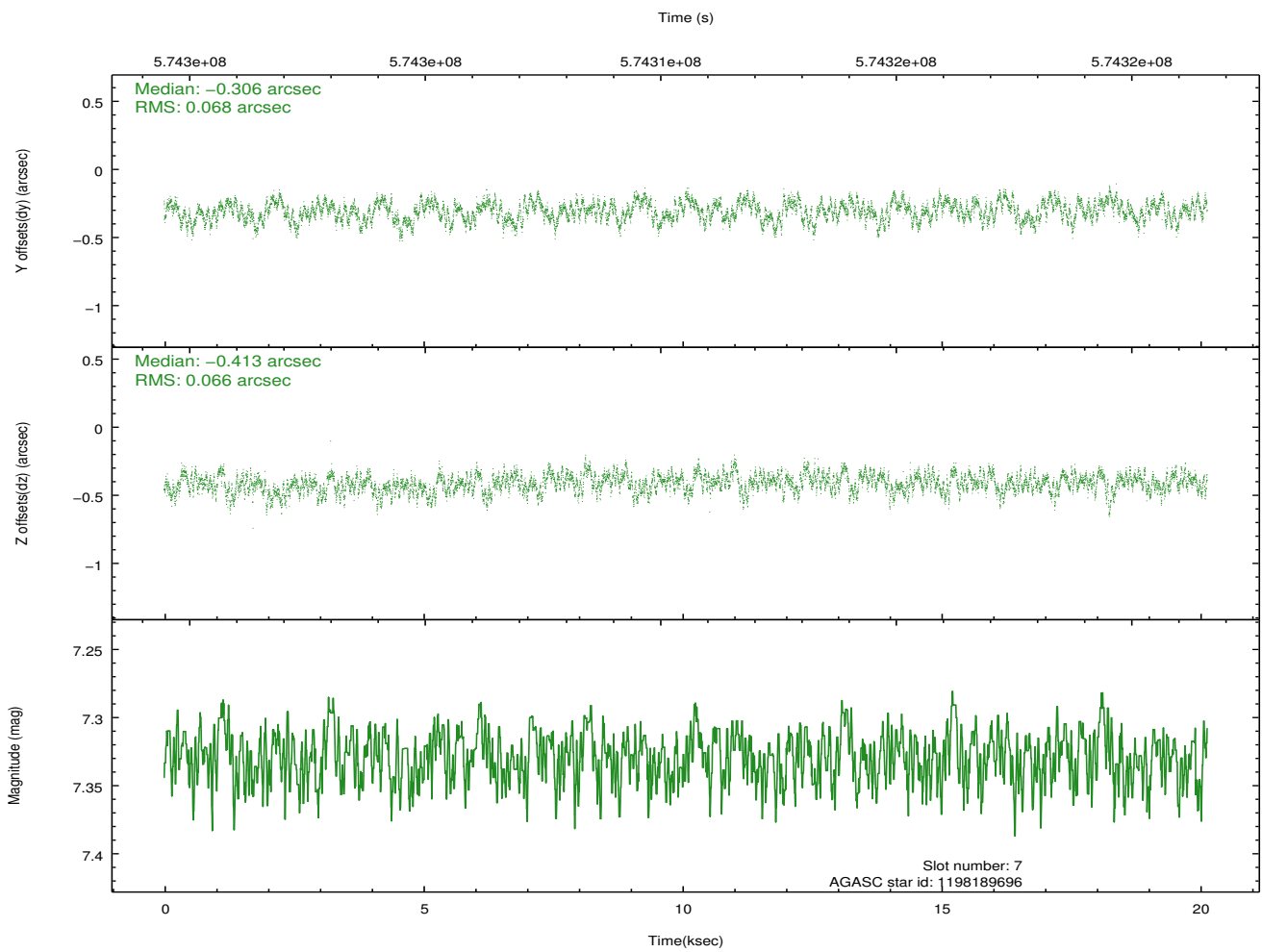
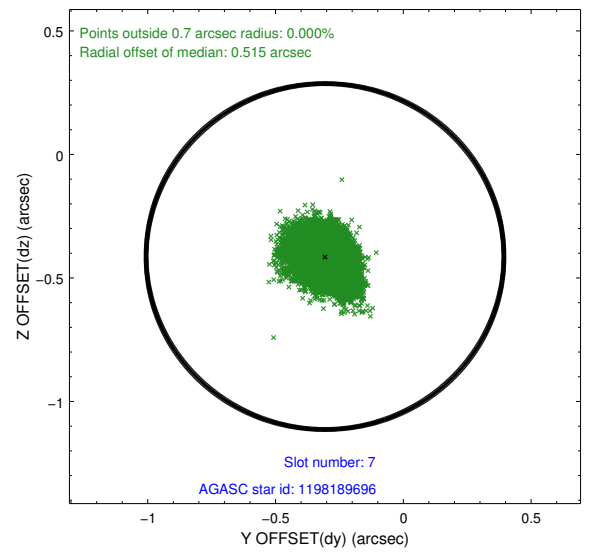
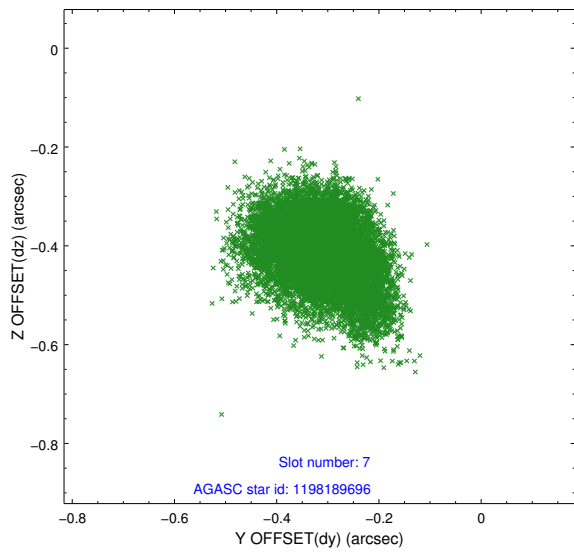
### 2.4.3 Slot 5



## 2.4.4 Slot 6

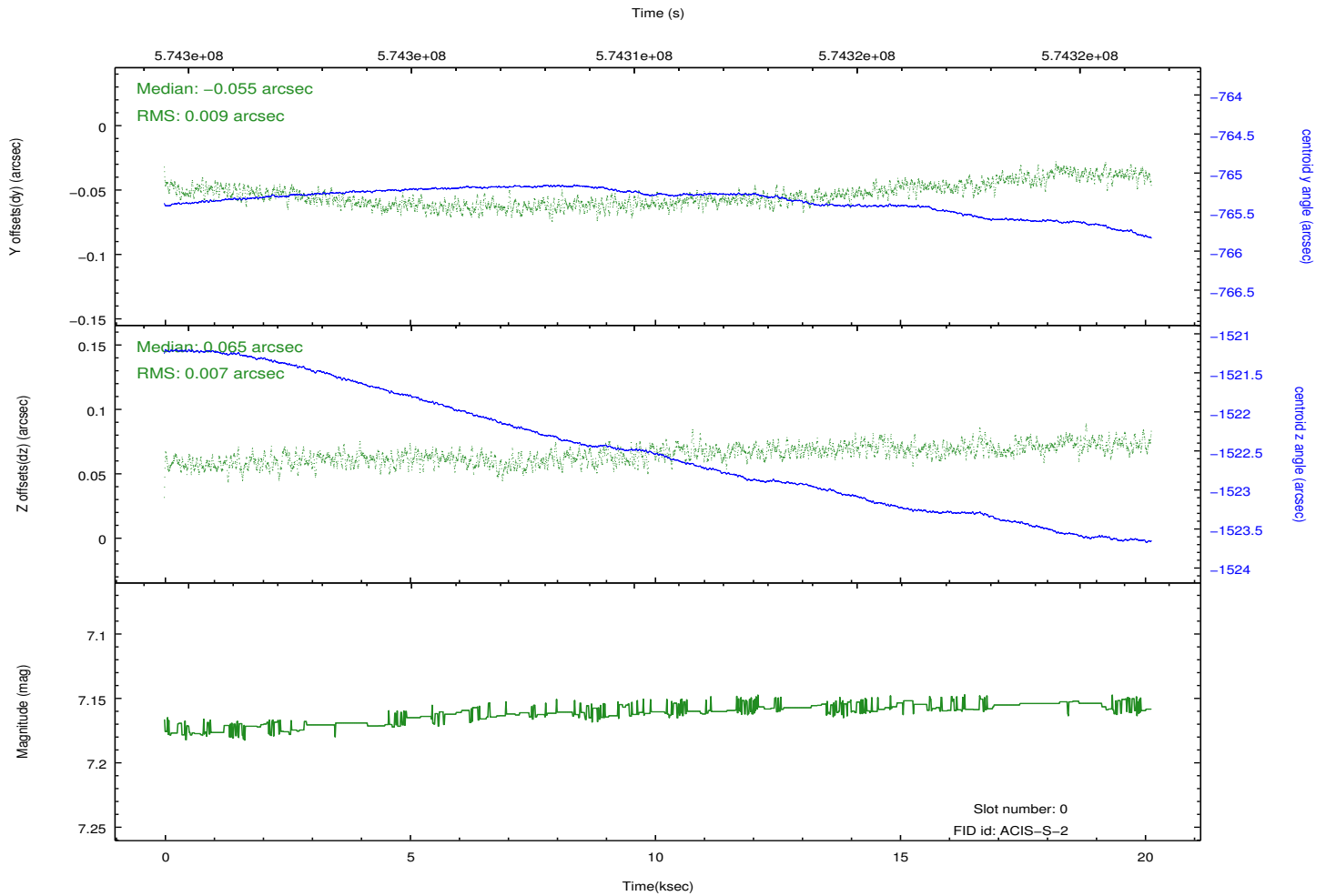
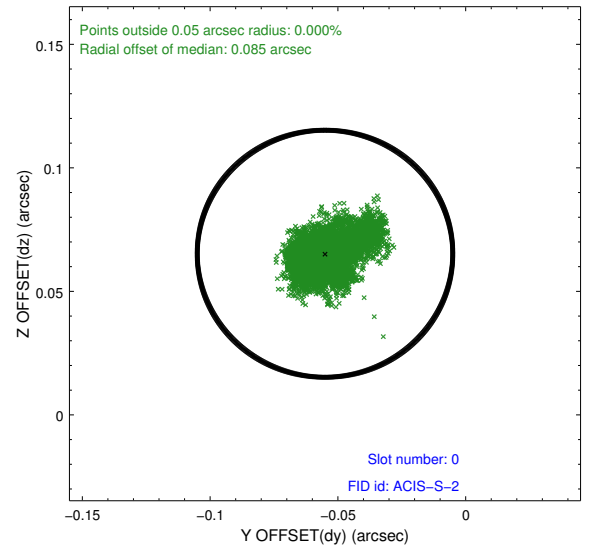
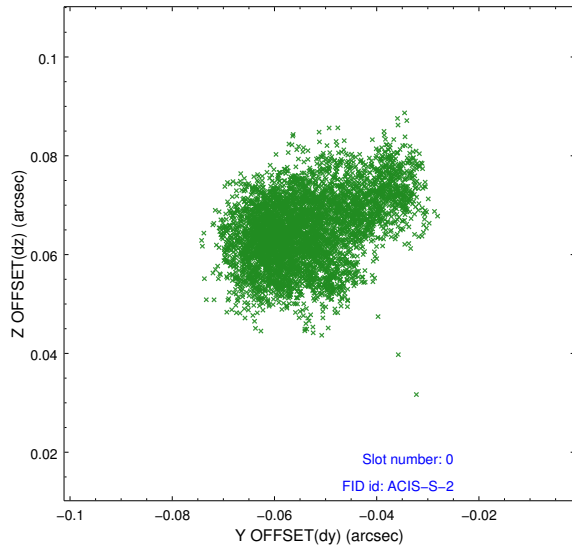


### 2.4.5 Slot 7

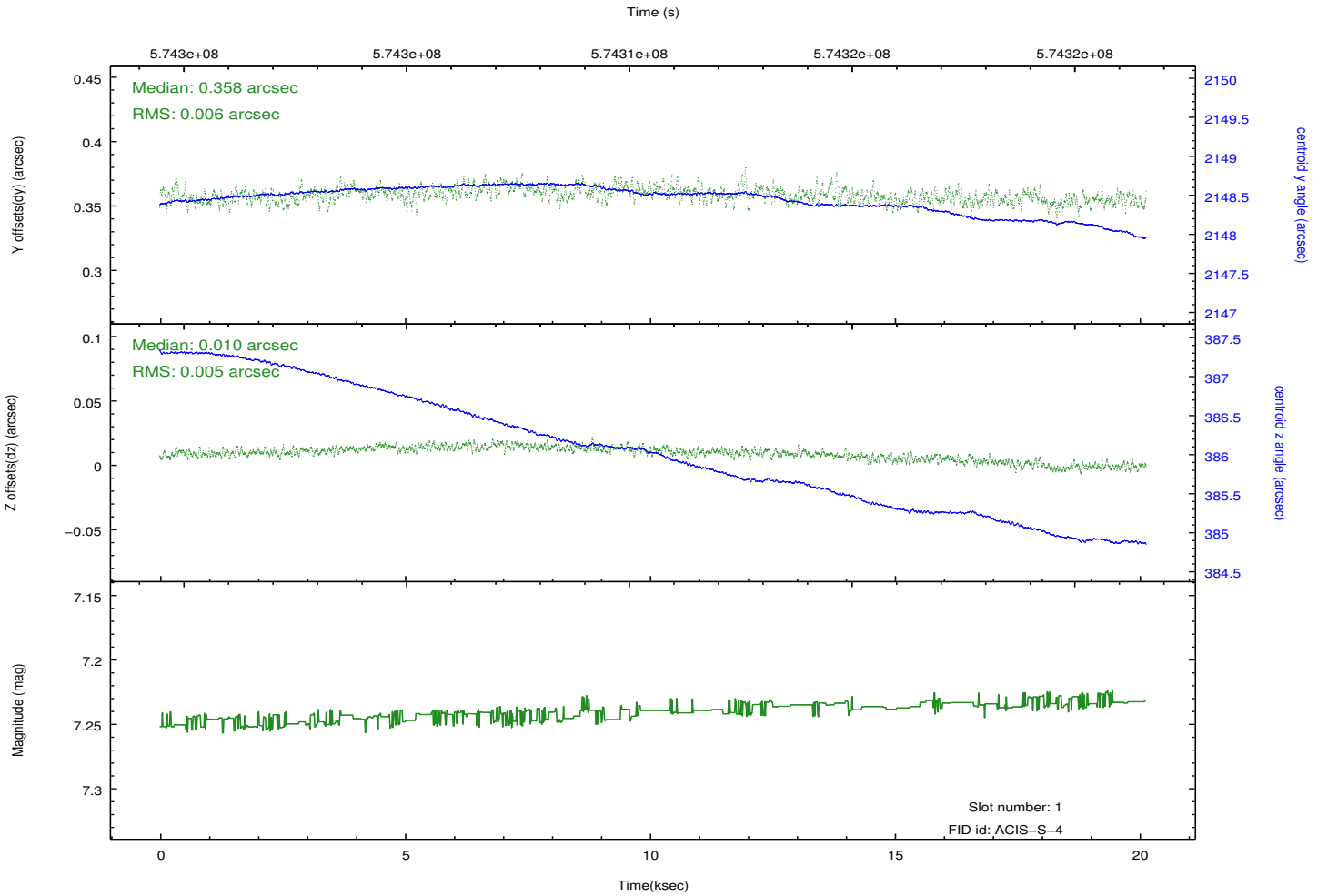
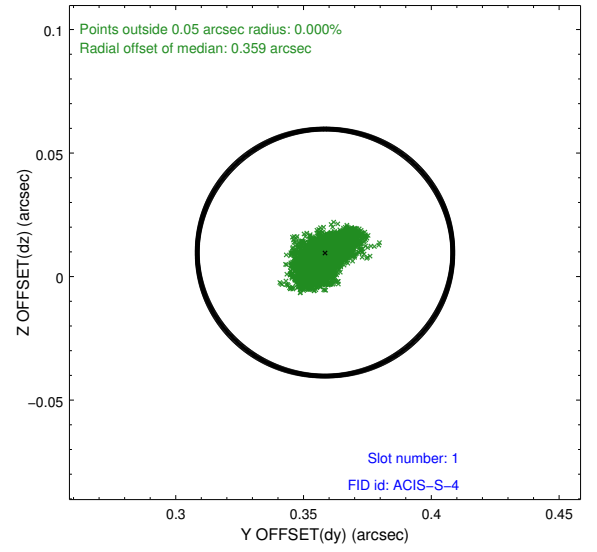
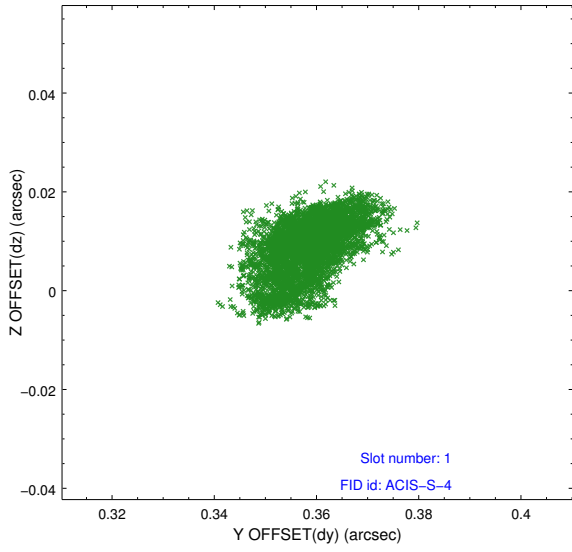


## 2.5 FID Slots

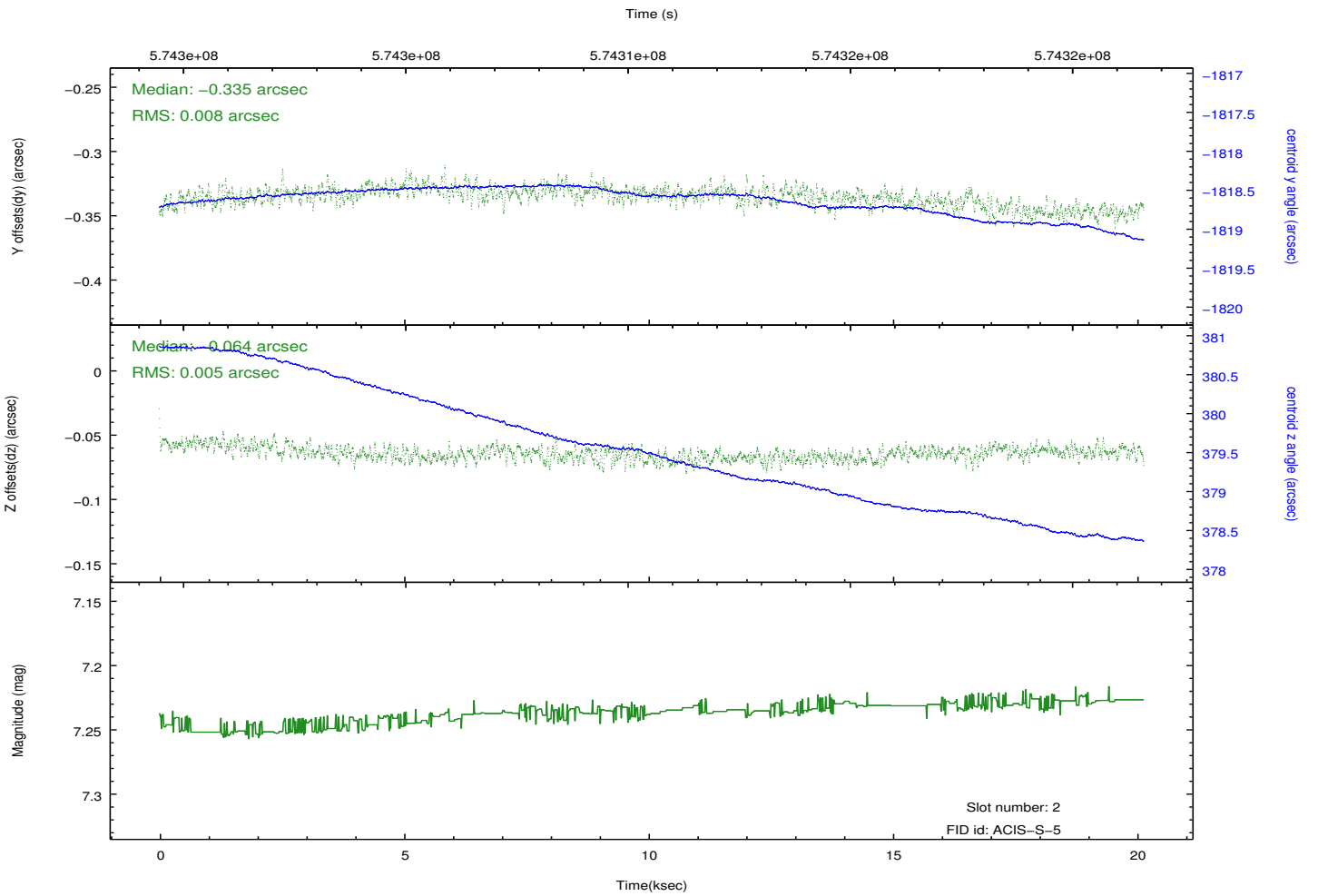
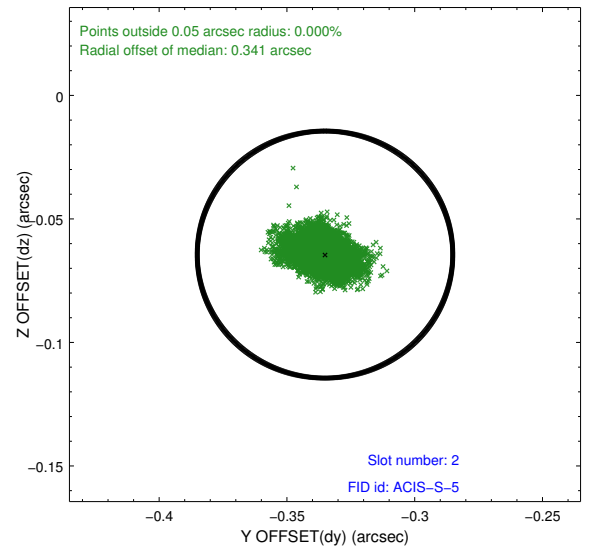
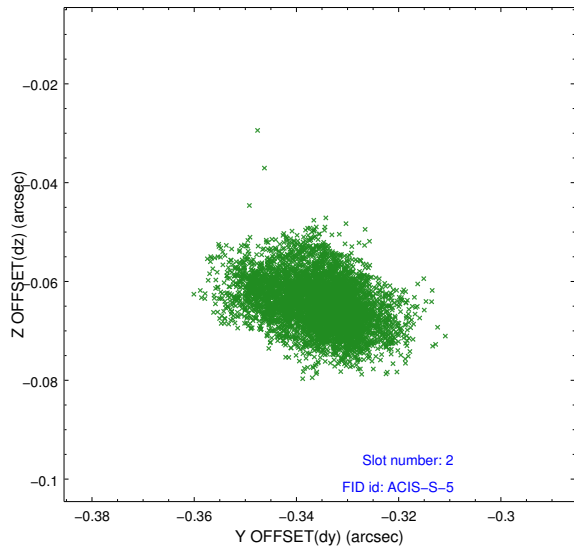
### 2.5.1 Slot 0



## 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)	2016.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.063998804092

## A.2 Comments

Window preference met.