

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18209 - L2 Version 3
Chandra X-Ray Center

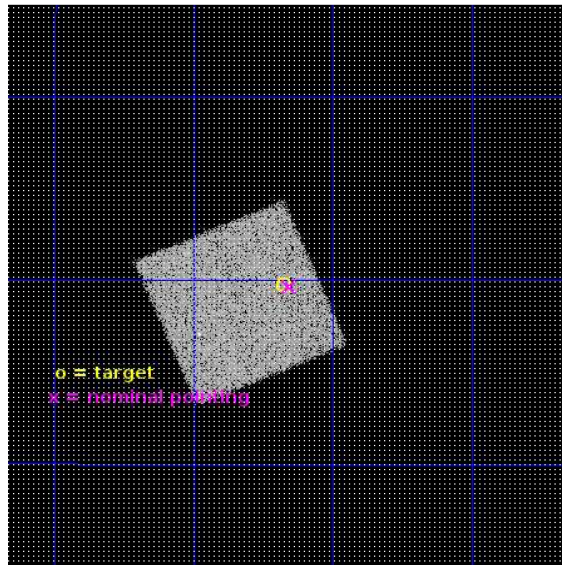
L2 Processing Date : May 5 2017

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1 Front

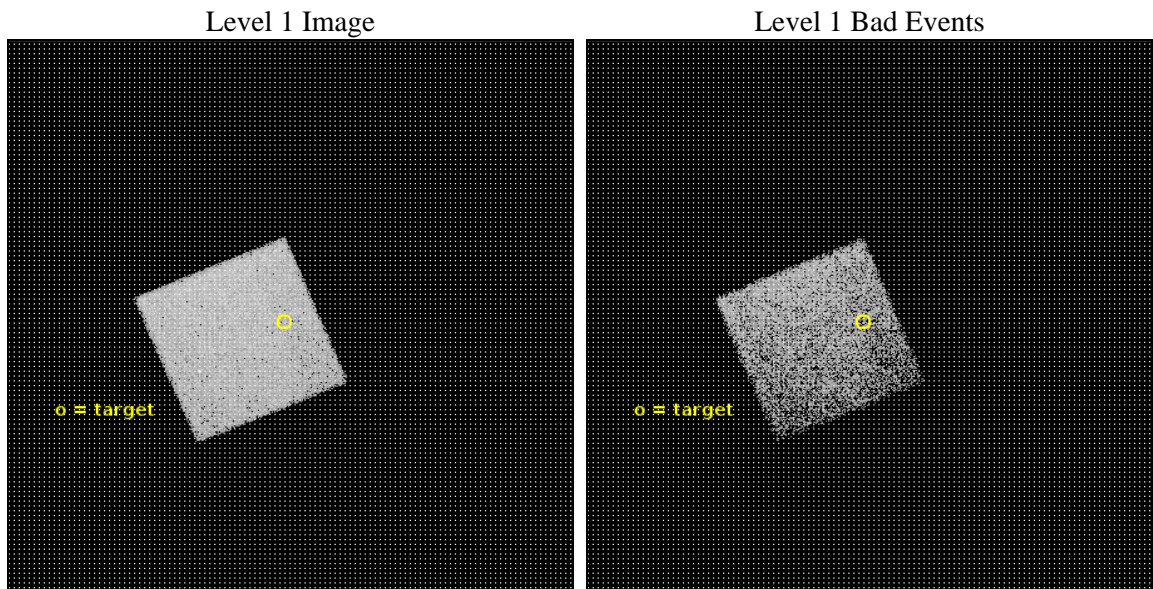
seq_num	703270	Sequence number
obs_id	18209	Observation id
title	'Timely' Observations of Tidal Disruption Events	Proposal title
observer	Professor Shri Kulkarni	Principal investigator
object	iPTF14aon	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.79375	Observer's specified target RA [deg]
dec_targ	13.829694	Observer's specified target Dec [deg]
ra_nom	218.78923430724	Nominal RA [deg]
dec_nom	13.827490176627	Nominal Dec [deg]
roll_nom	157.17569448353	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10090.935872197	Sum of GTIs [s]
livetime	9954.7548261751	Livetime [s]
ontime7	10090.935872197	Sum of GTIs [s]
l2events	39704	Number of level 2 events



2 OBI

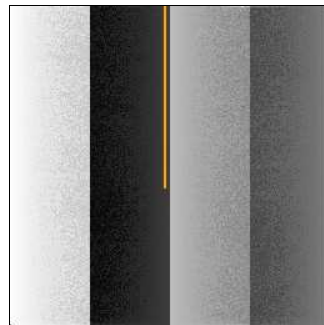
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	10090.935872197	Sum of GTIs [s]
caldbver	4.7.4	 	ontime7	10090.935872197	Sum of GTIs [s]
date	2017-05-05T20:52:31	Date and time of file creation	l1events	90702	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

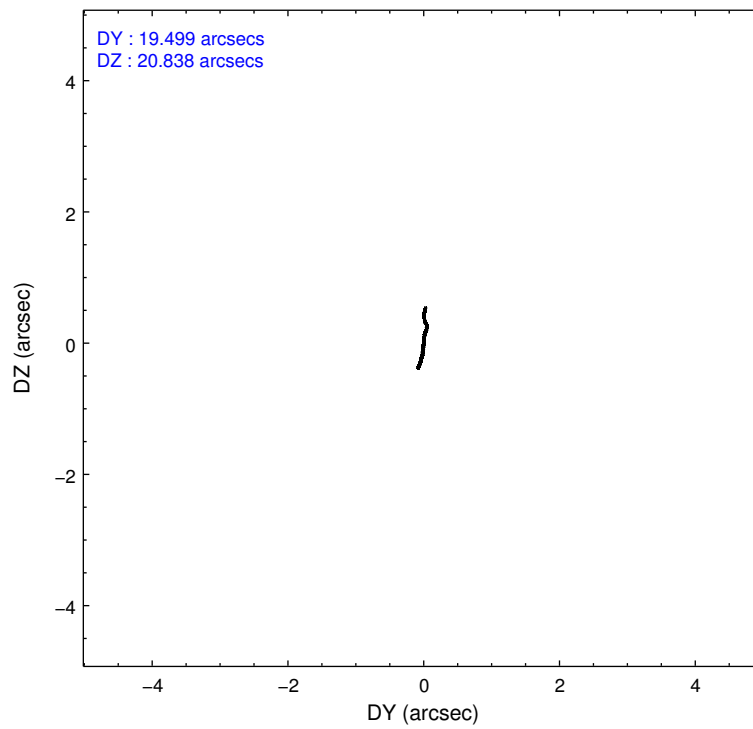
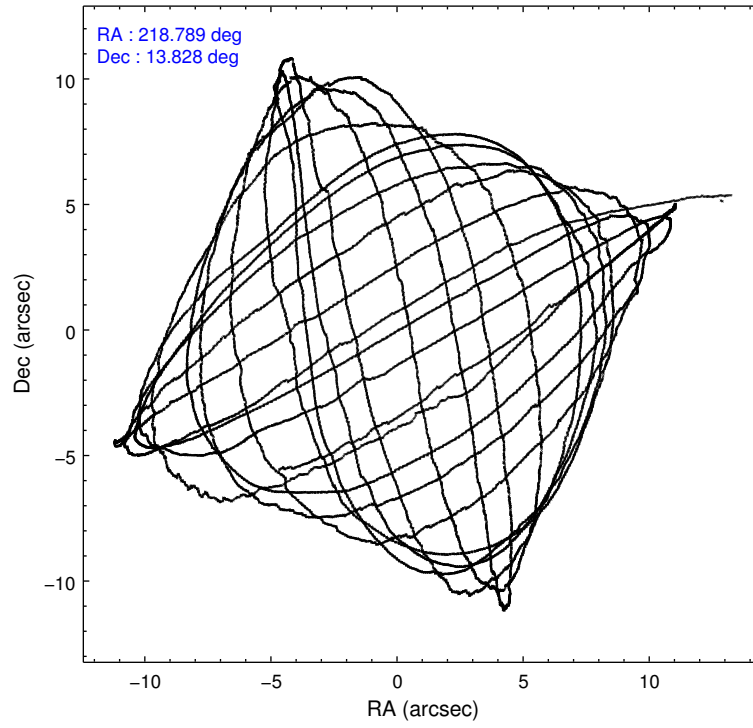
	ccd 7
level 1 events	90702
rejected events	49928
rejected %	55%

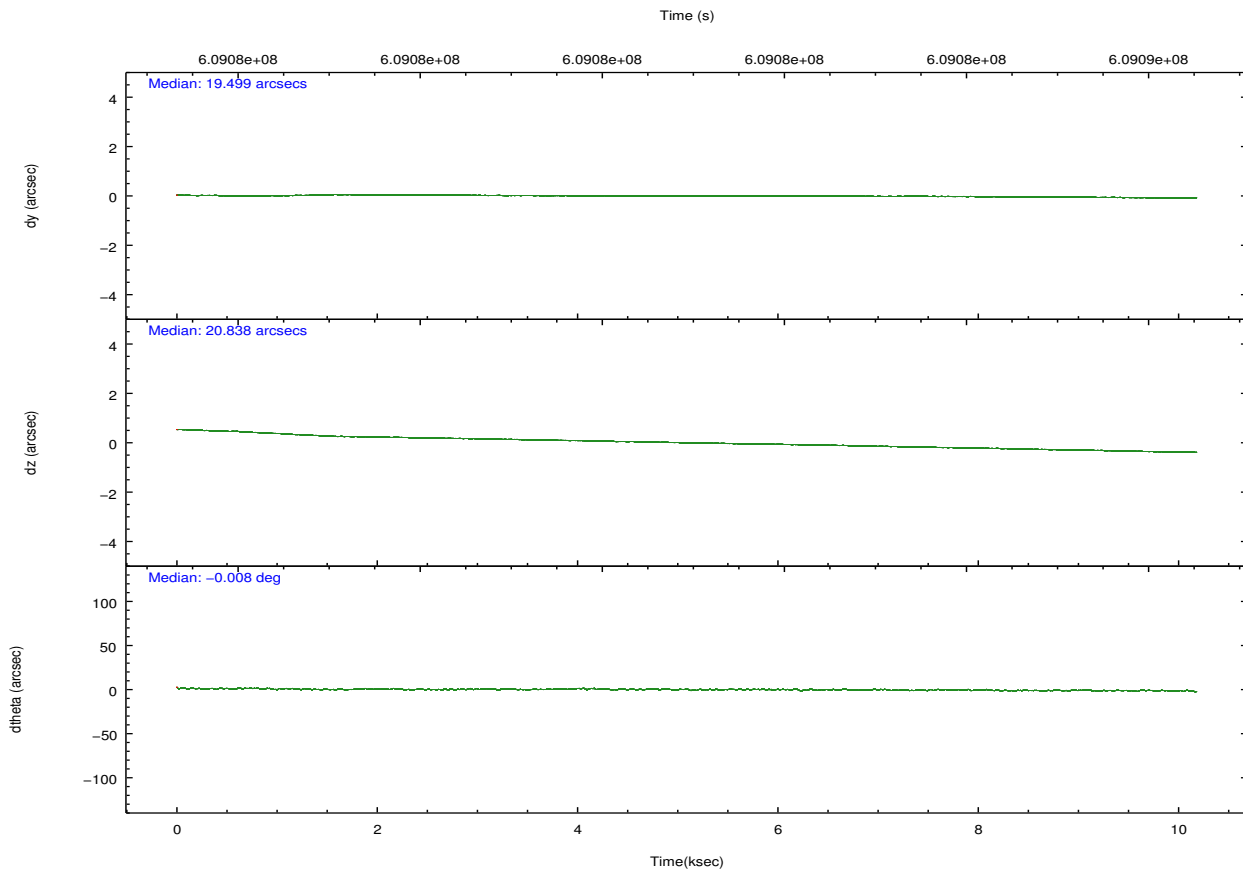
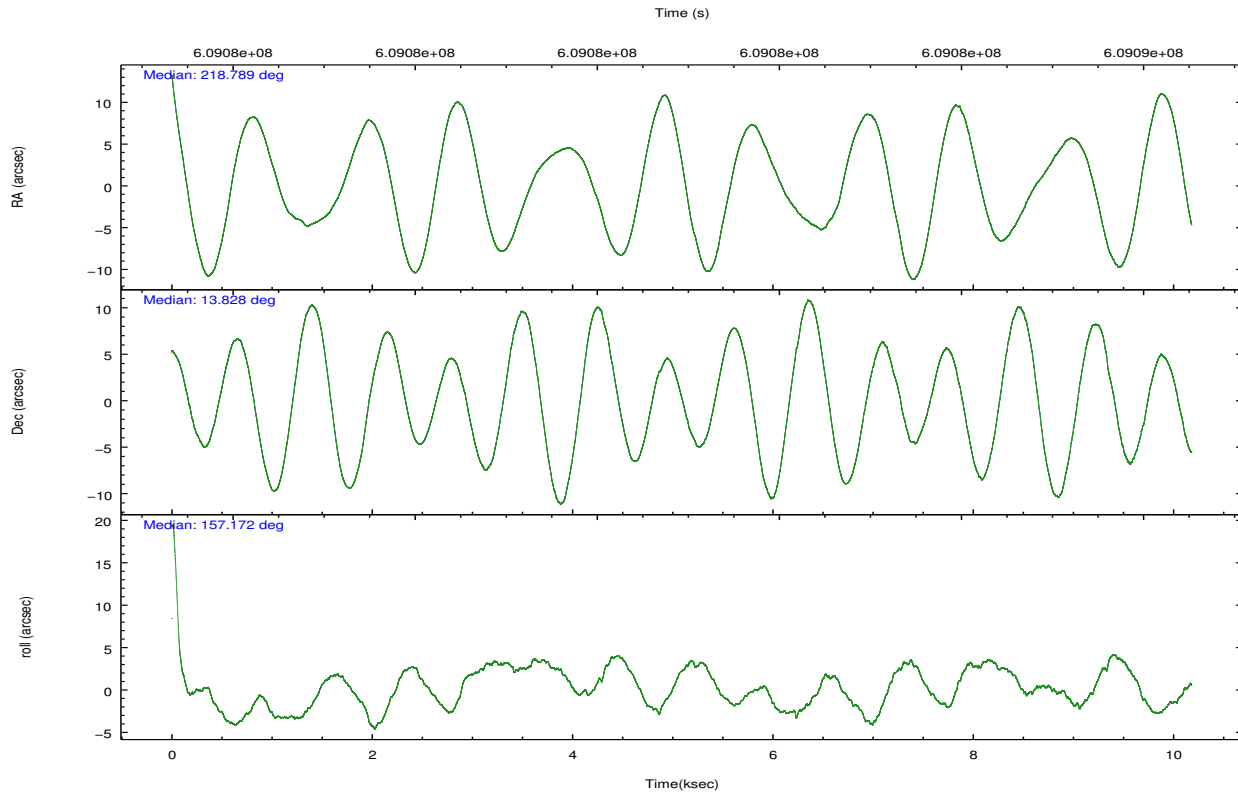
	ccd 7
grade 0 events	3569
	3%
grade 1 events	138
	0%
grade 2 events	8685
	9%
grade 3 events	3444
	3%
grade 4 events	3275
	3%
grade 5 events	9196
	10%
grade 6 events	21827
	24%
grade 7 events	40568
	44%

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	218.817221	218.7892343072385	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.831295	13.82749017662666	Alternating exposures requested	N	N
[deg] Pointing Roll	157.012339	157.1756944835274	[s] Primary exposure time	0.000000	3
[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)	609076037.184000	609075208.23678			
Observation start date	2017-04-20T11:46:08	2017-04-20T11:33:28			
[s] Observation end time (MET)	609086037.184000	609086886.57495			
Observation end date	2017-04-20T14:32:48	2017-04-20T14:48:06			
Read mode	TIMED	TIMED			

2.3 Aspect



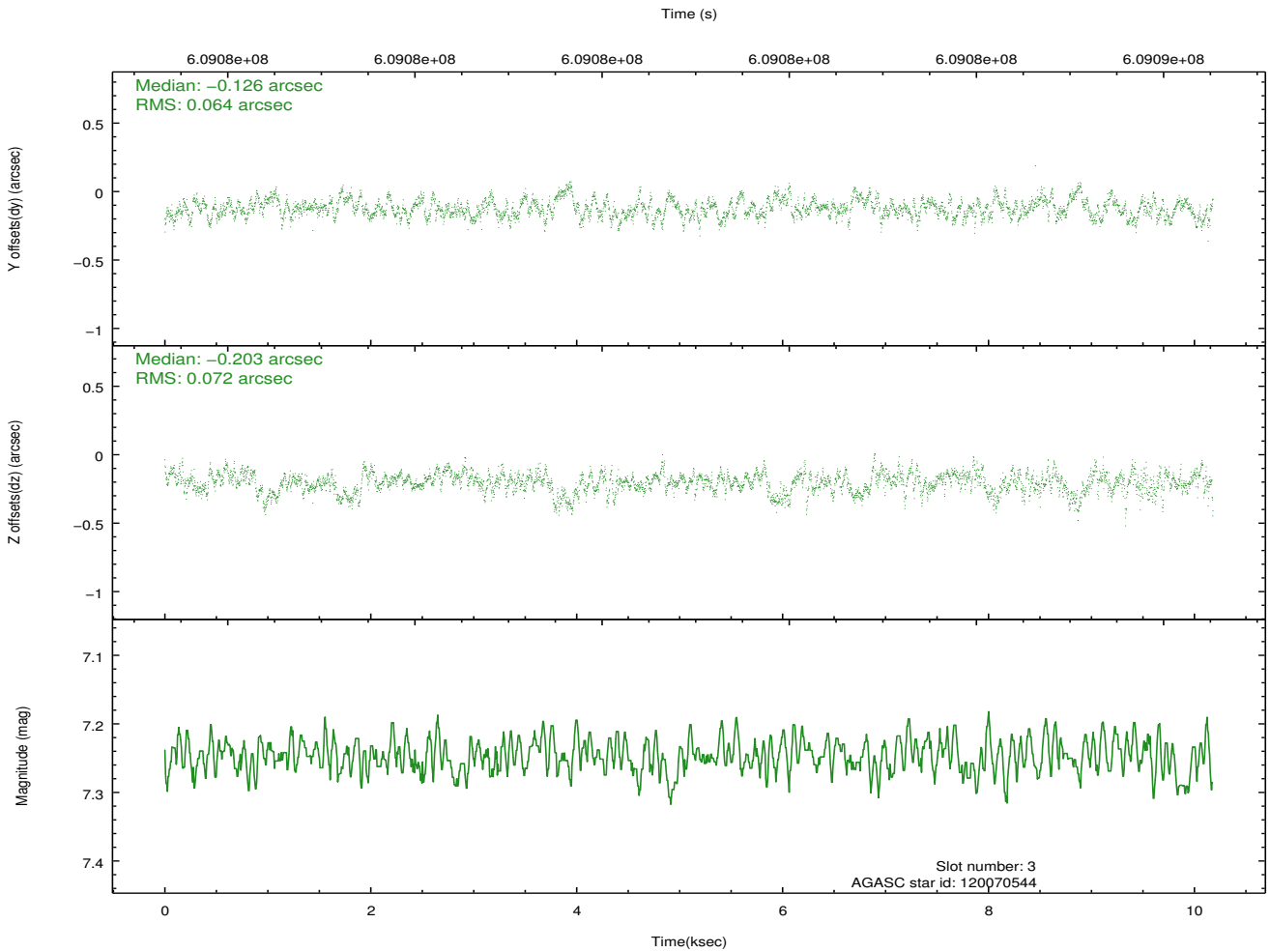
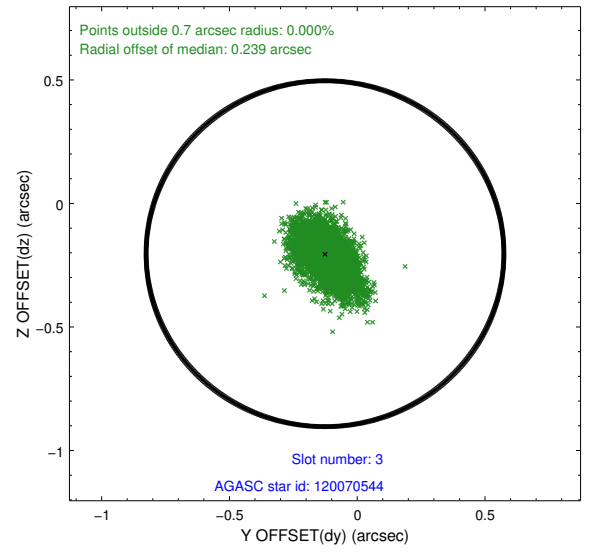
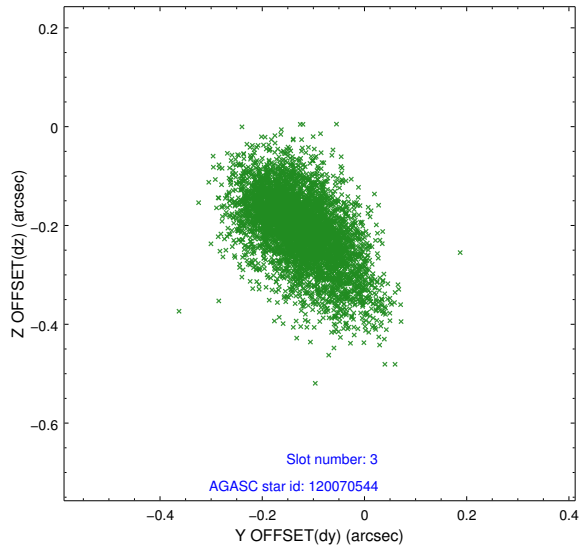


Slot Statistics

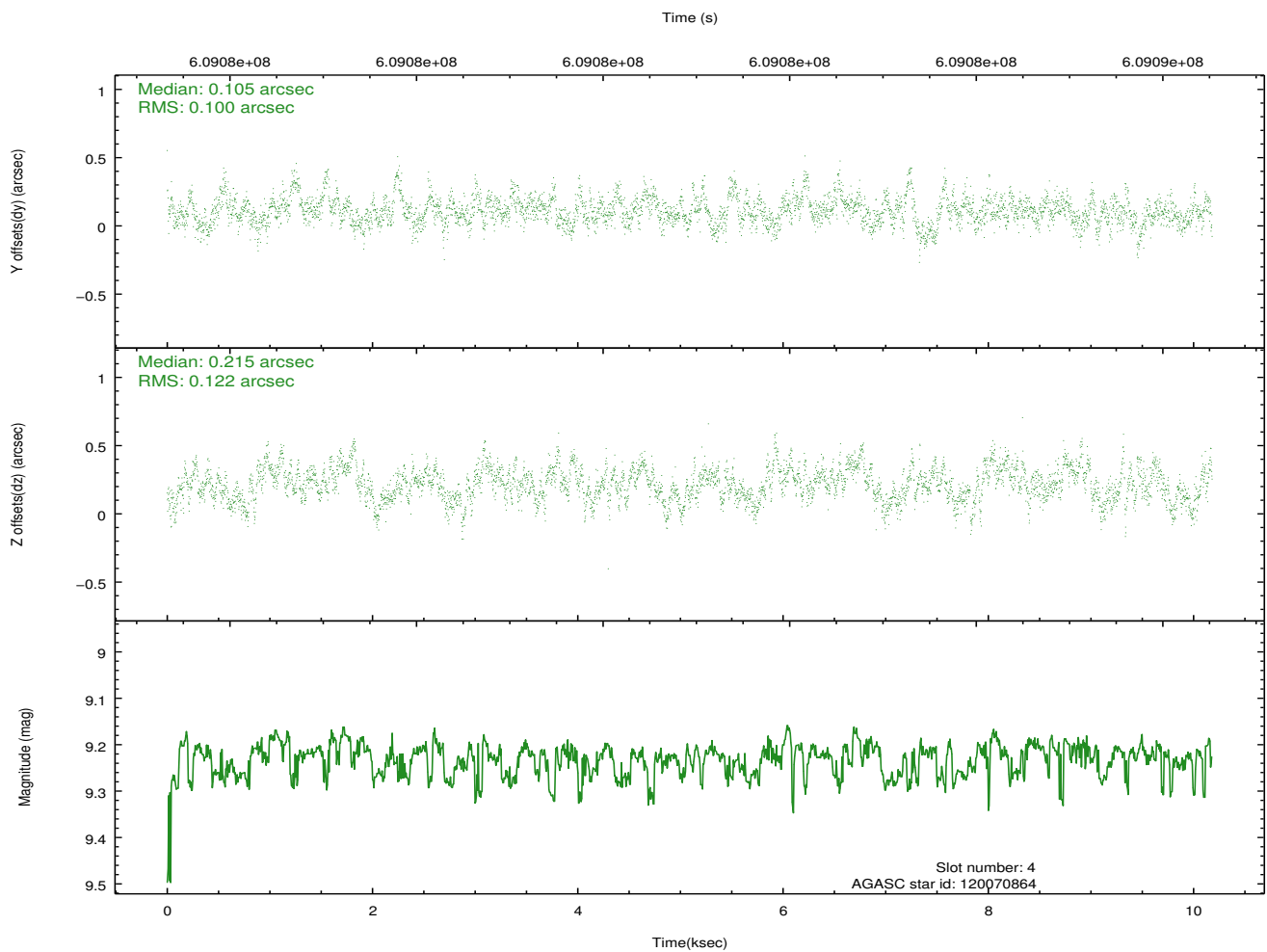
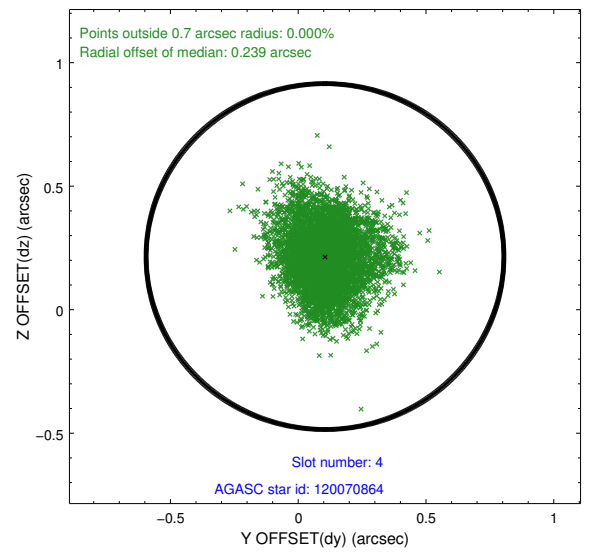
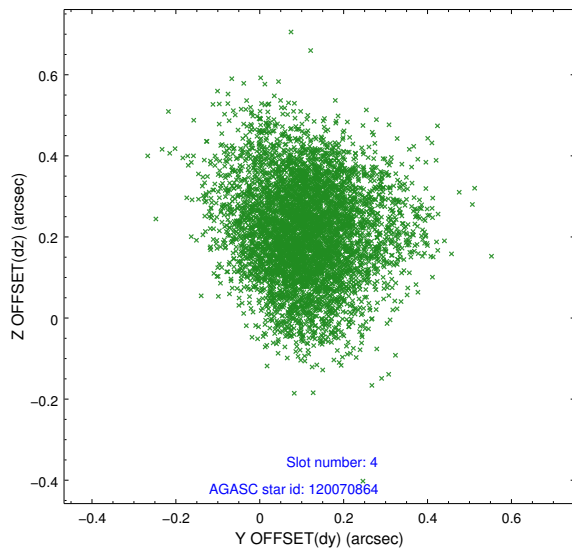
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	2484	0.294	-0.070	0.006	0.011	0.000000	0.000000	923.82	-1738.05
1	FID		ACIS-S-2	6.98	2484	-0.184	-0.036	0.008	0.013	0.000000	0.000000	-772.27	-1743.18
2	FID		ACIS-S-5	7.08	2483	-0.135	0.112	0.007	0.012	0.000000	0.000000	-1826.08	159.03
3	GUIDE	used	120070544	7.25	4967	-0.126	-0.203	0.100	0.176	218.206298	14.060850	2287.36	70.14
4	GUIDE	used	120070864	9.23	4958	0.105	0.215	0.168	0.271	218.365468	14.229689	2012.83	-705.15
5	GUIDE	used	120071928	8.25	4966	0.376	0.432	0.089	0.149	219.560374	14.028891	-2109.83	-1669.78
6	GUIDE	used	120072488	9.24	4960	-0.013	-0.289	0.172	0.254	218.831462	13.242993	-871.26	1929.80
7	GUIDE	used	120072592	7.84	4965	-0.356	-0.150	0.107	0.166	218.230323	13.848468	1913.99	742.24

2.4 Star Slots

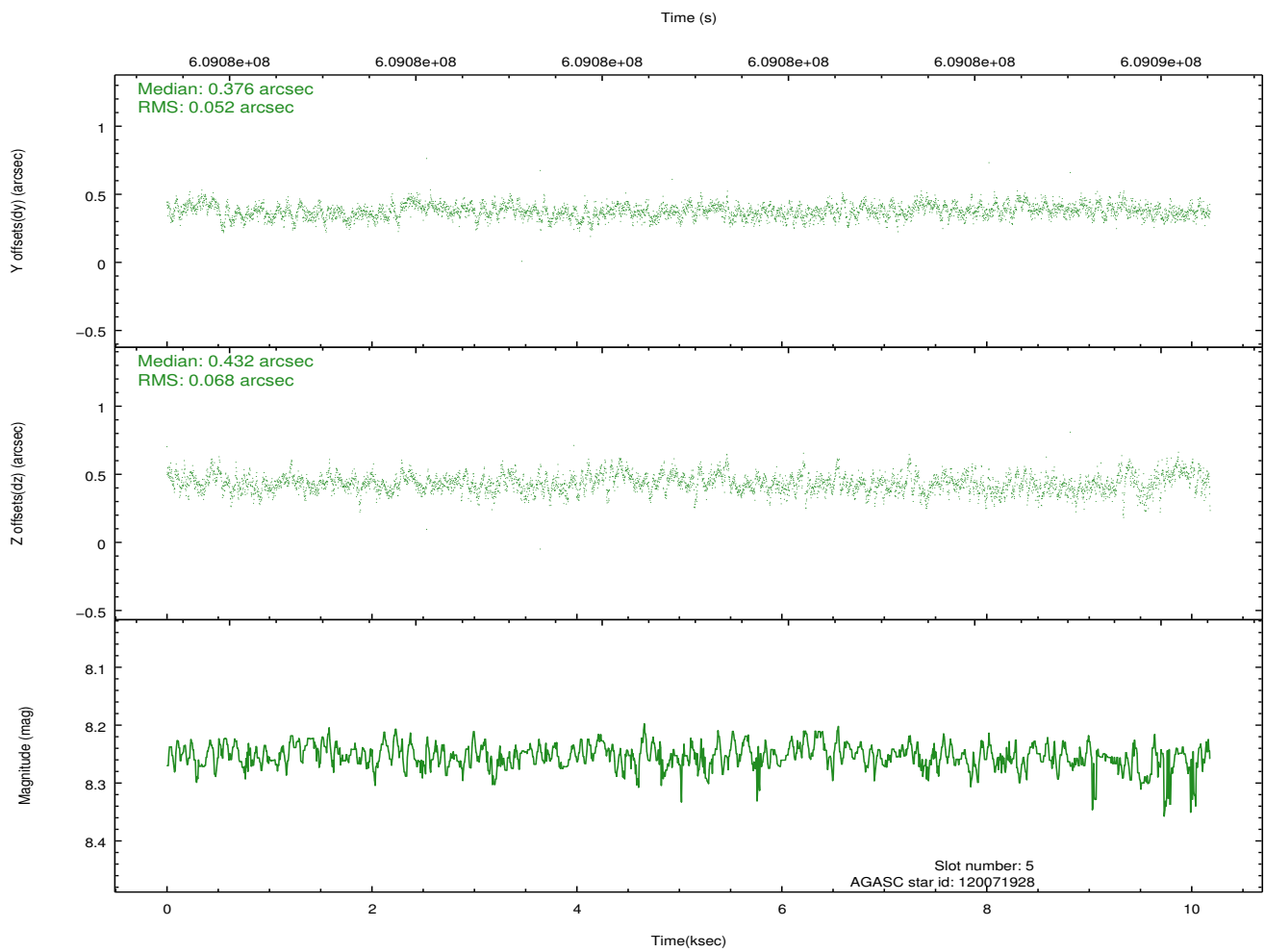
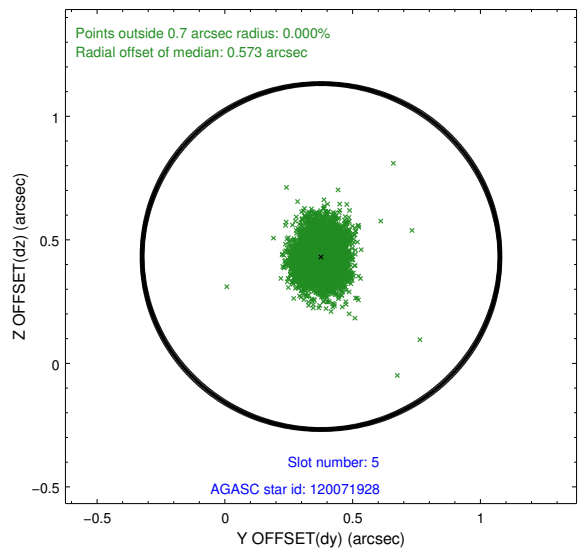
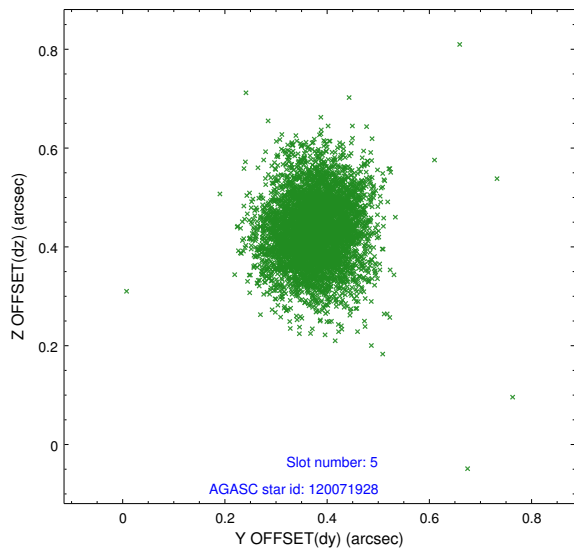
2.4.1 Slot 3



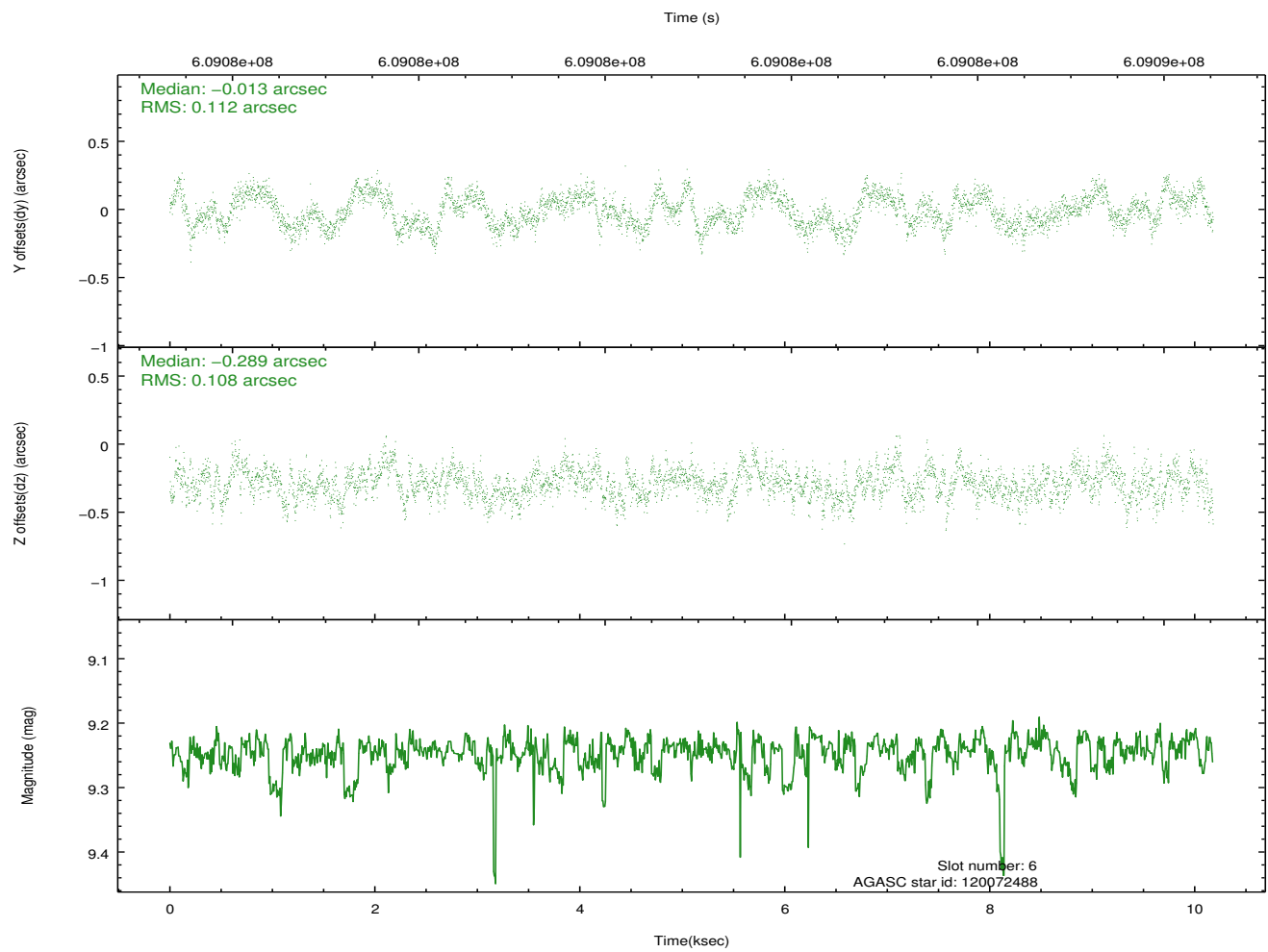
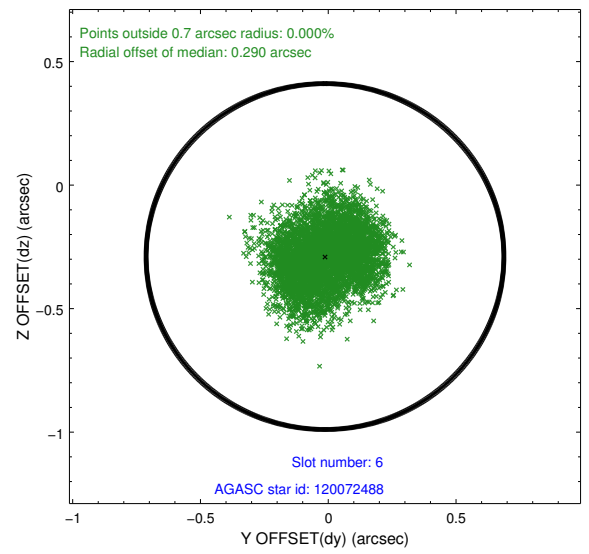
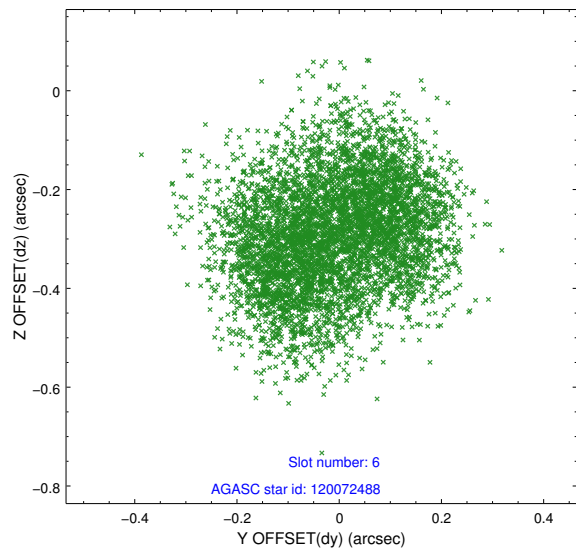
2.4.2 Slot 4



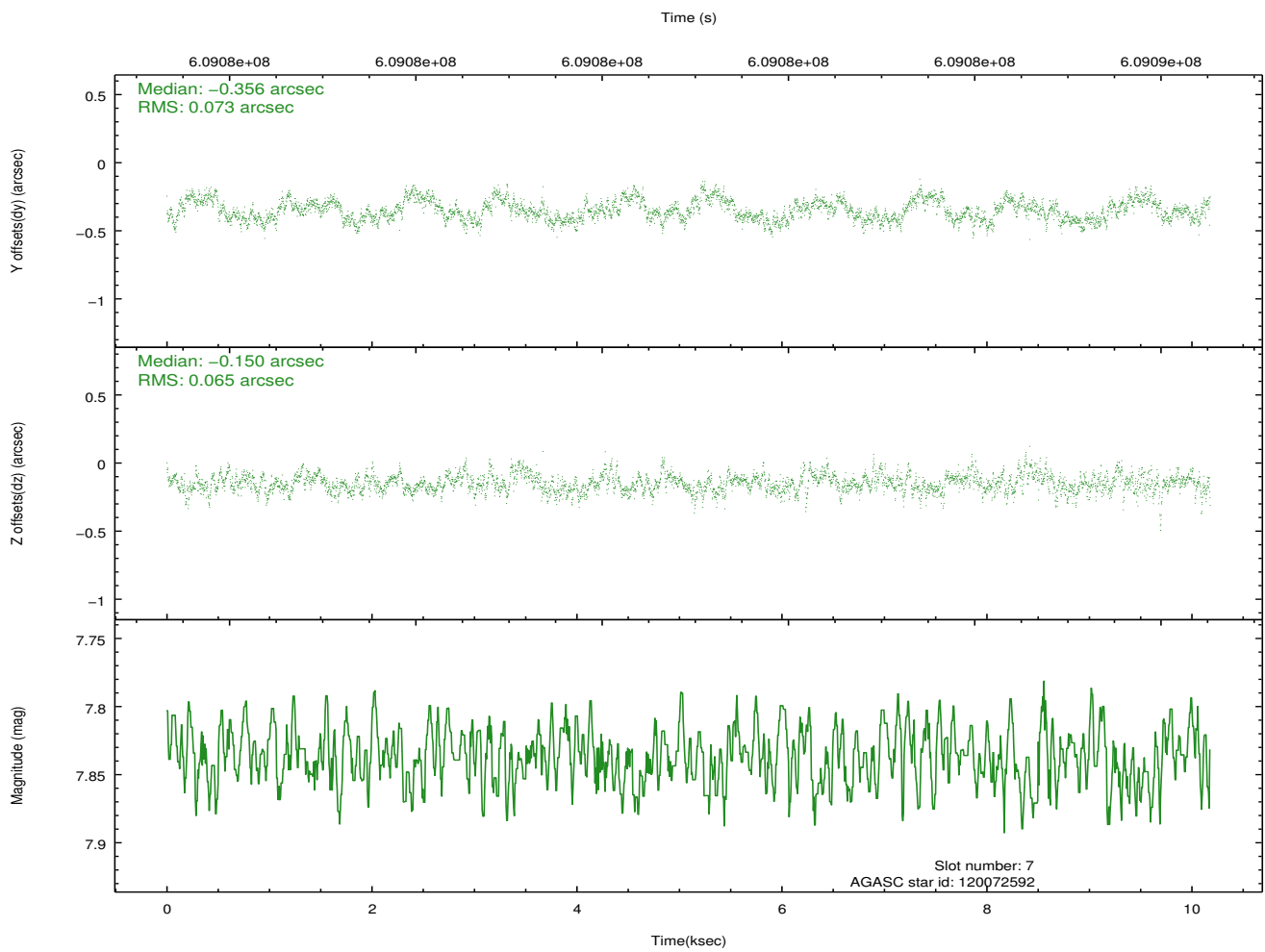
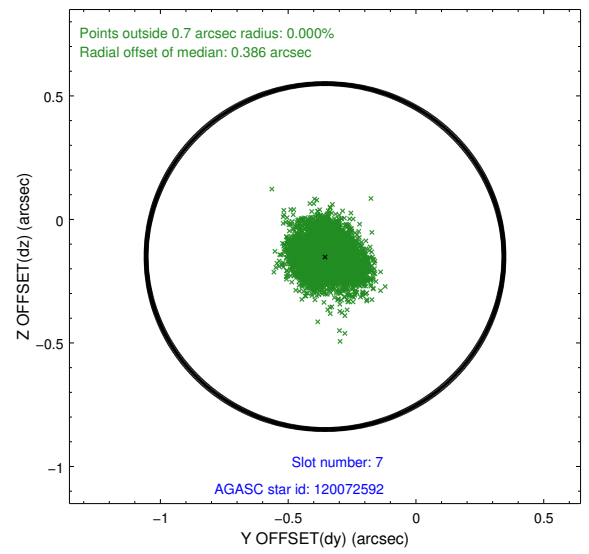
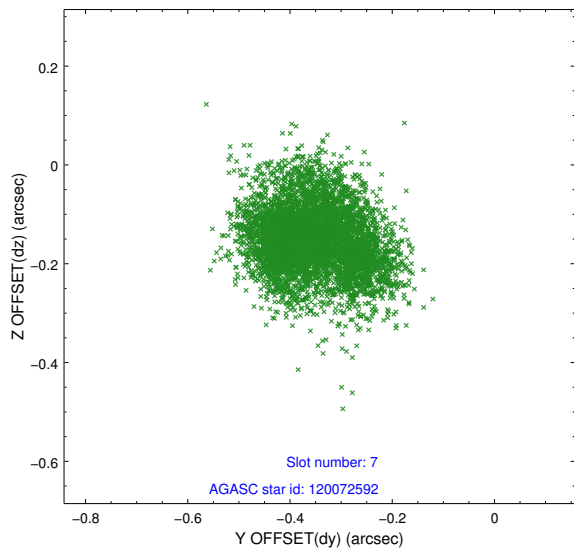
2.4.3 Slot 5



2.4.4 Slot 6

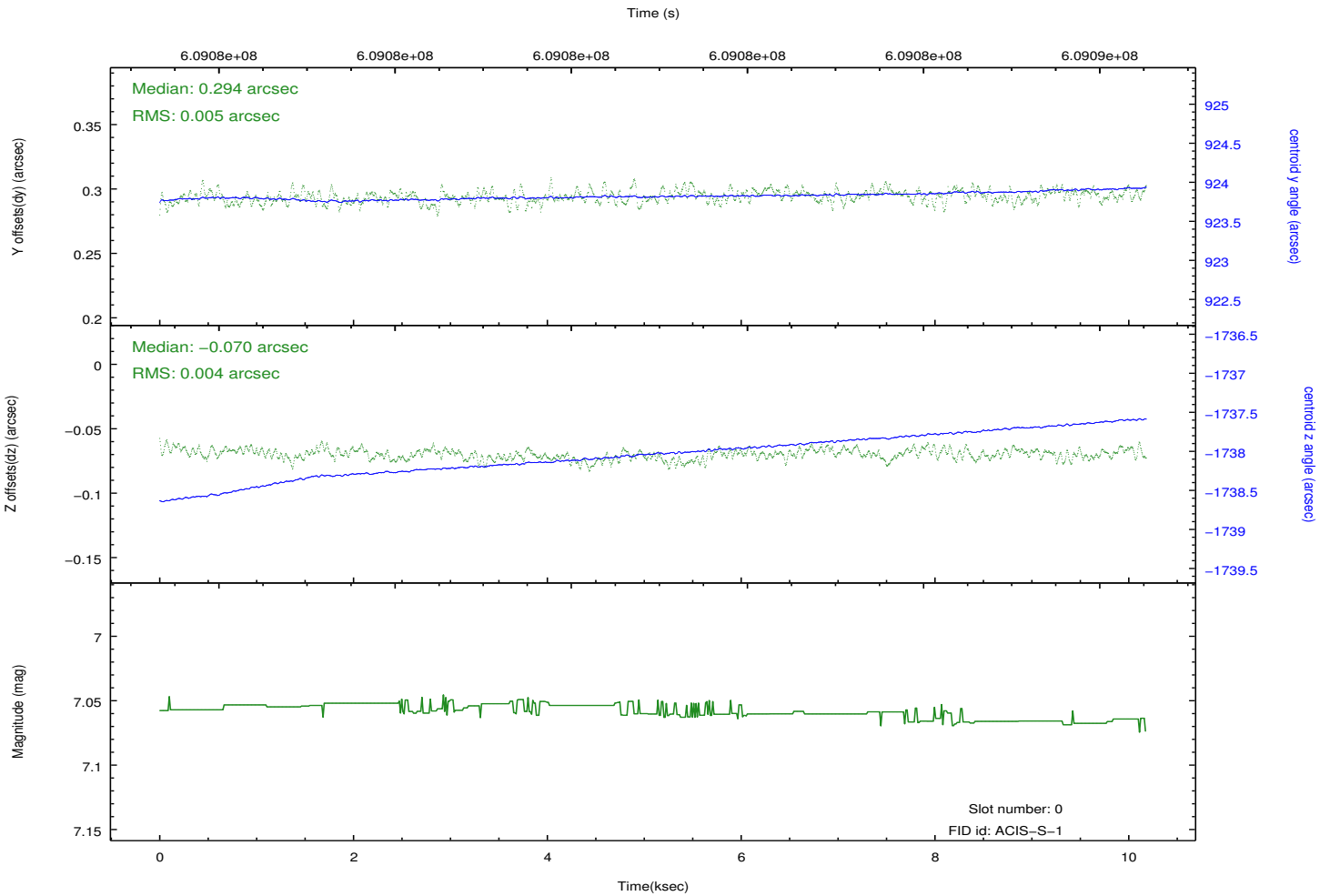
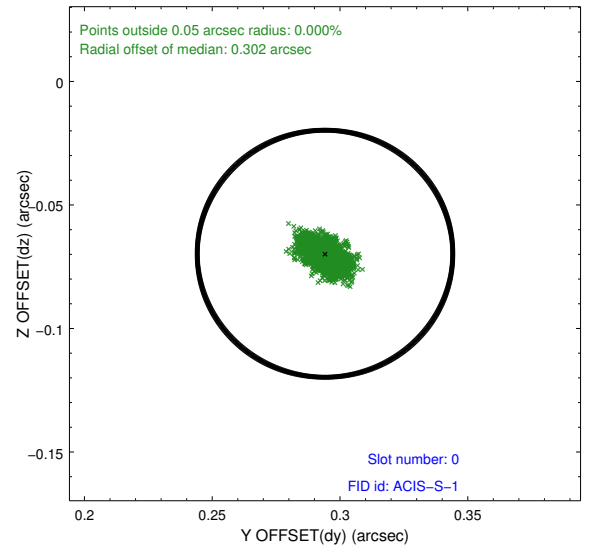
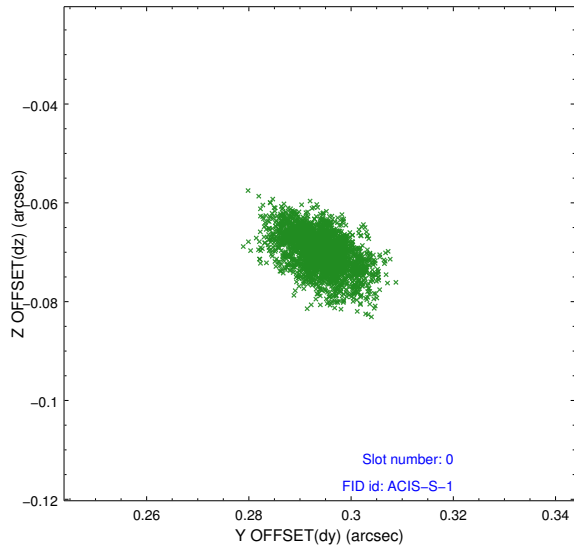


2.4.5 Slot 7

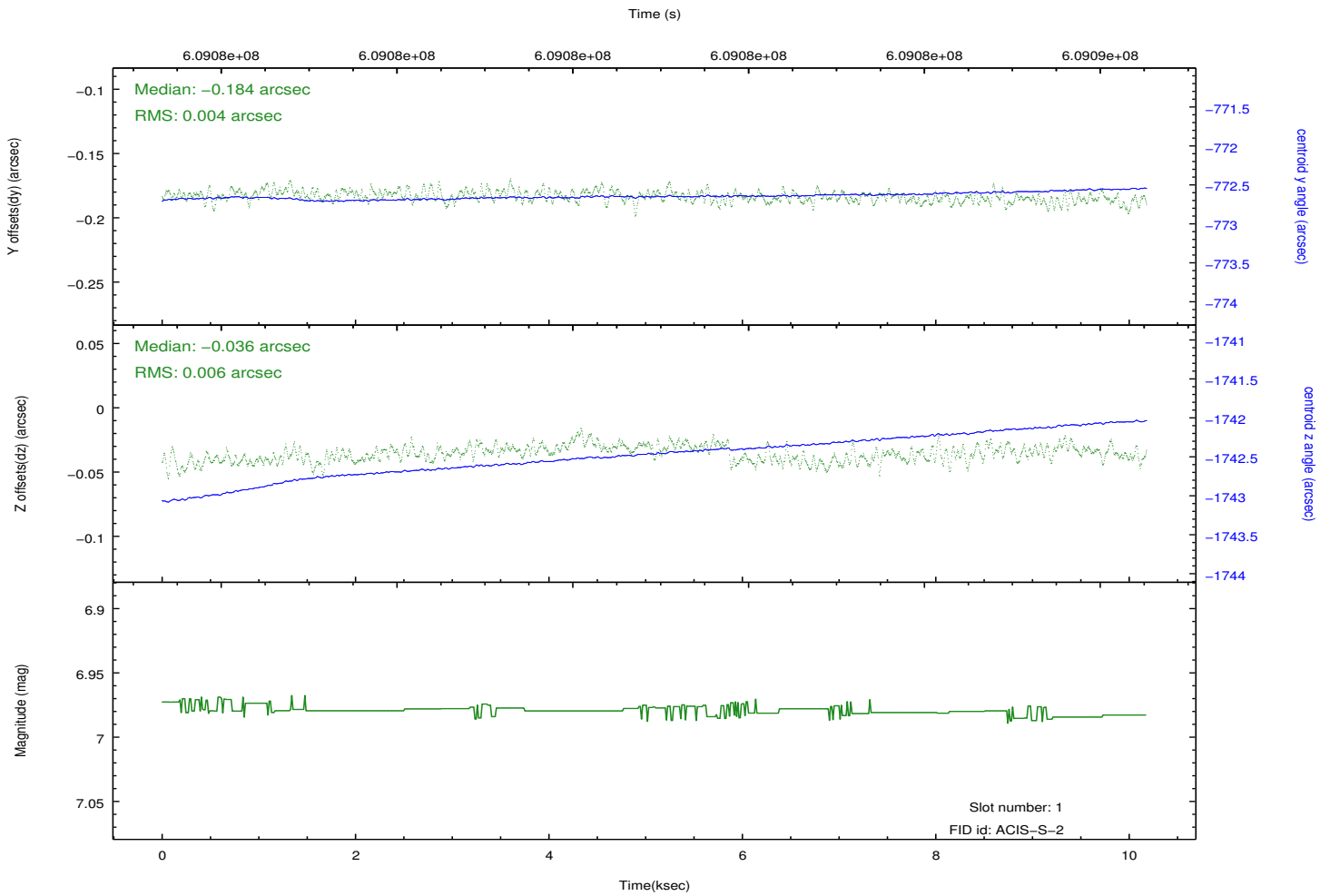
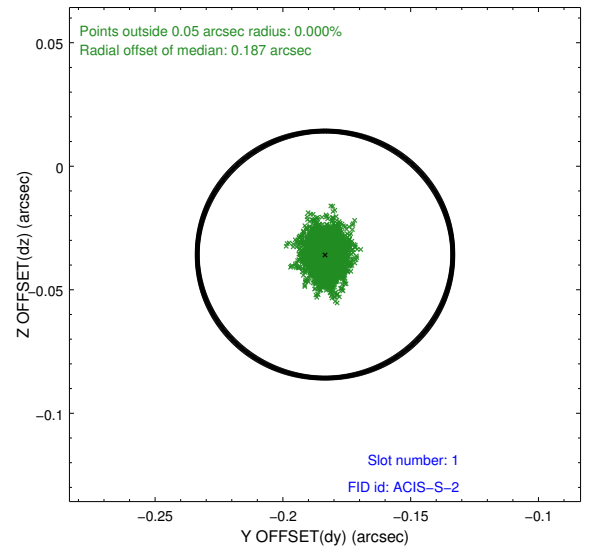
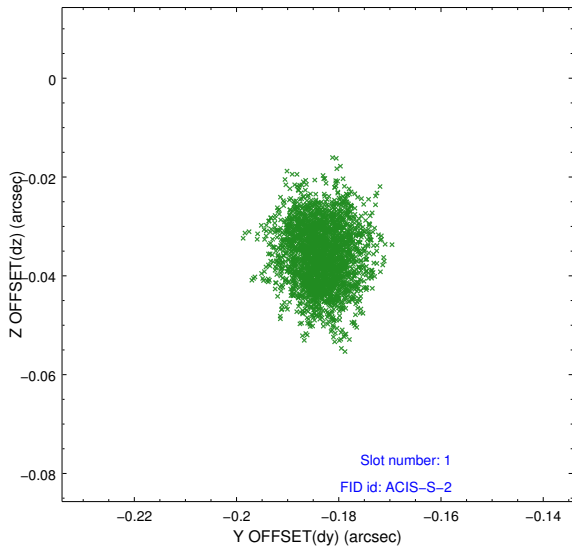


2.5 FID Slots

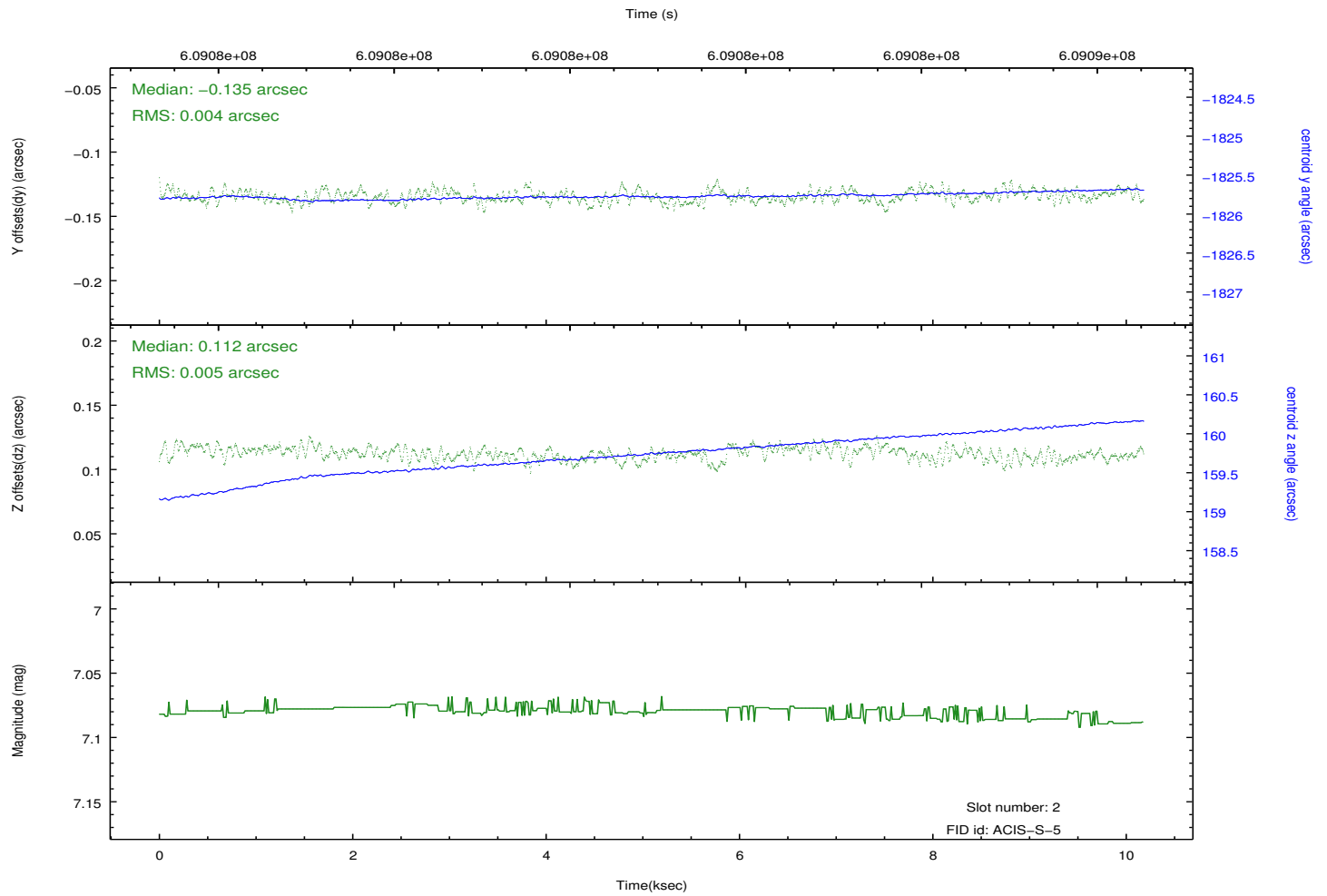
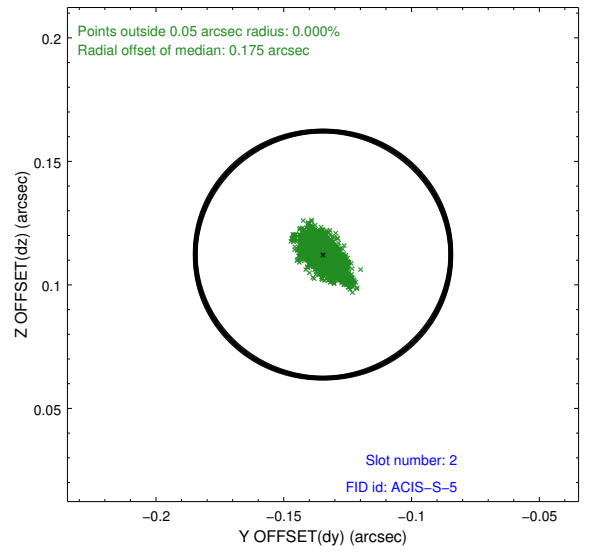
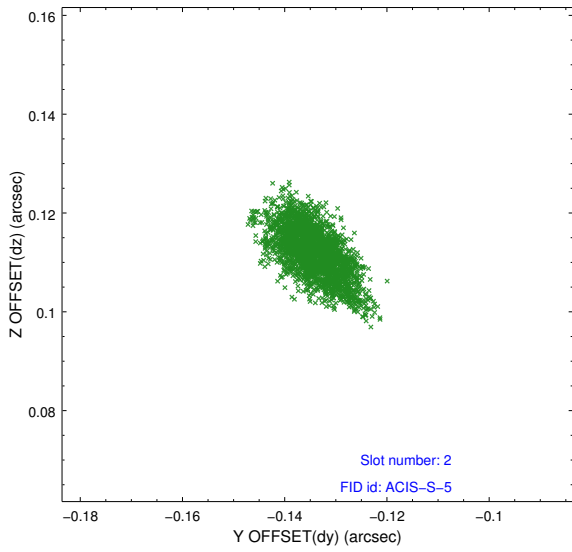
2.5.1 Slot 0



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)	2017.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.090935868502

A.2 Comments

The telemetered bias image for CCD_= 7 showed a shift in column number for all pixels in rows 705-713. The ACIS team was at first unable to correct the telemetered data, so an earlier processing of this observation used a bias file that was reconstructed using scaled data from a comparable bias map to fill the data gaps. However, the original bias file has now been recovered from telemetry, and the observation has been reprocessed without manual intervention.