

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21667 - L2 Version 1
Chandra X-Ray Center

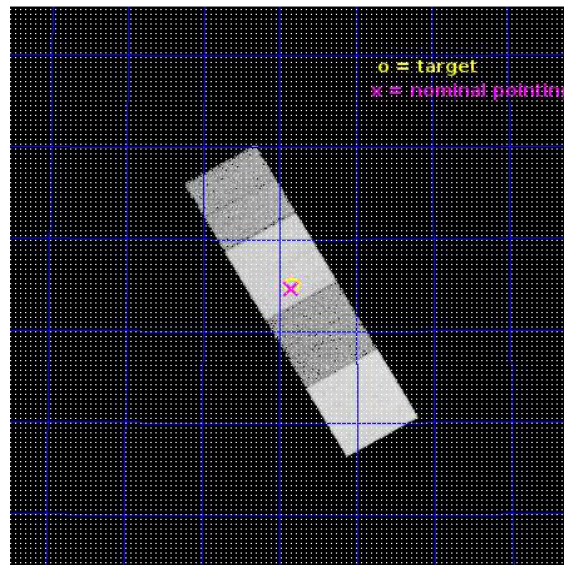
L2 Processing Date : Aug 7 2018

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1 Front

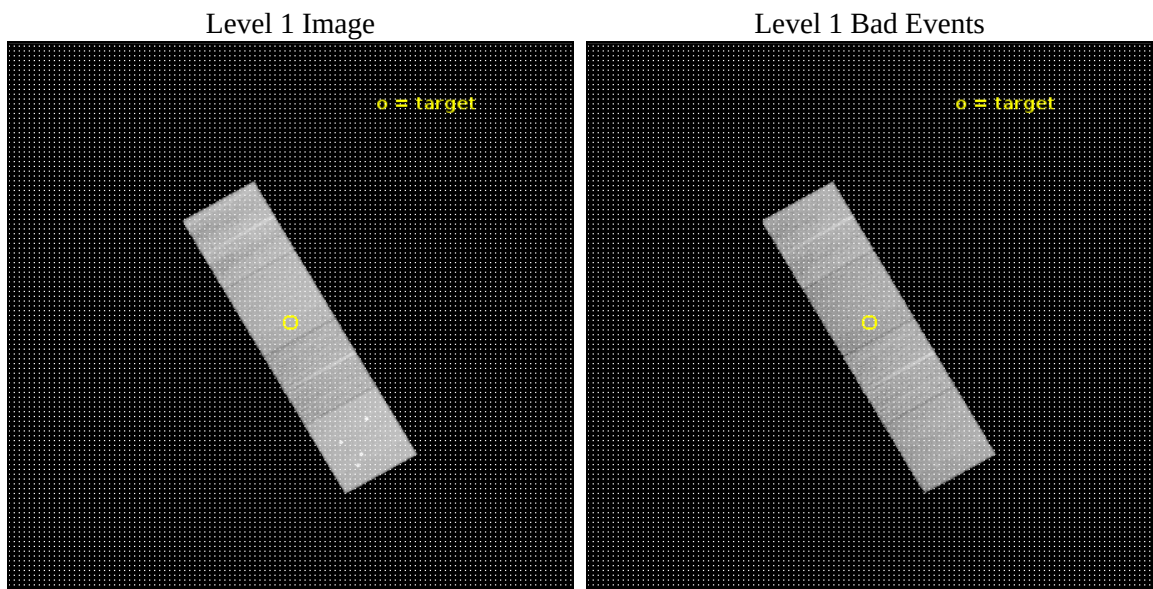
seq_num	703553	Sequence number
obs_id	21667	Observation id
title	Late-time X-ray and Radio Observations of the Unique Relativistic TDE Sw 1644+57	Proposal title
observer	Tarraneh Eftekhari	Principal investigator
object	Sw1644+57	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.207917	Observer's specified target RA [deg]
dec_targ	57.58325	Observer's specified target Dec [deg]
ra_nom	251.21138599868	Nominal RA [deg]
dec_nom	57.577148978224	Nominal Dec [deg]
roll_nom	240.15371796392	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24061.289681315	Sum of GTIs [s]
livetime	23746.911217965	Livetime [s]
ontime5	24061.248641372	Sum of GTIs [s]
ontime6	24061.207601309	Sum of GTIs [s]
ontime7	24061.289681315	Sum of GTIs [s]
ontime8	24061.166561365	Sum of GTIs [s]
l2events	270136	Number of level 2 events



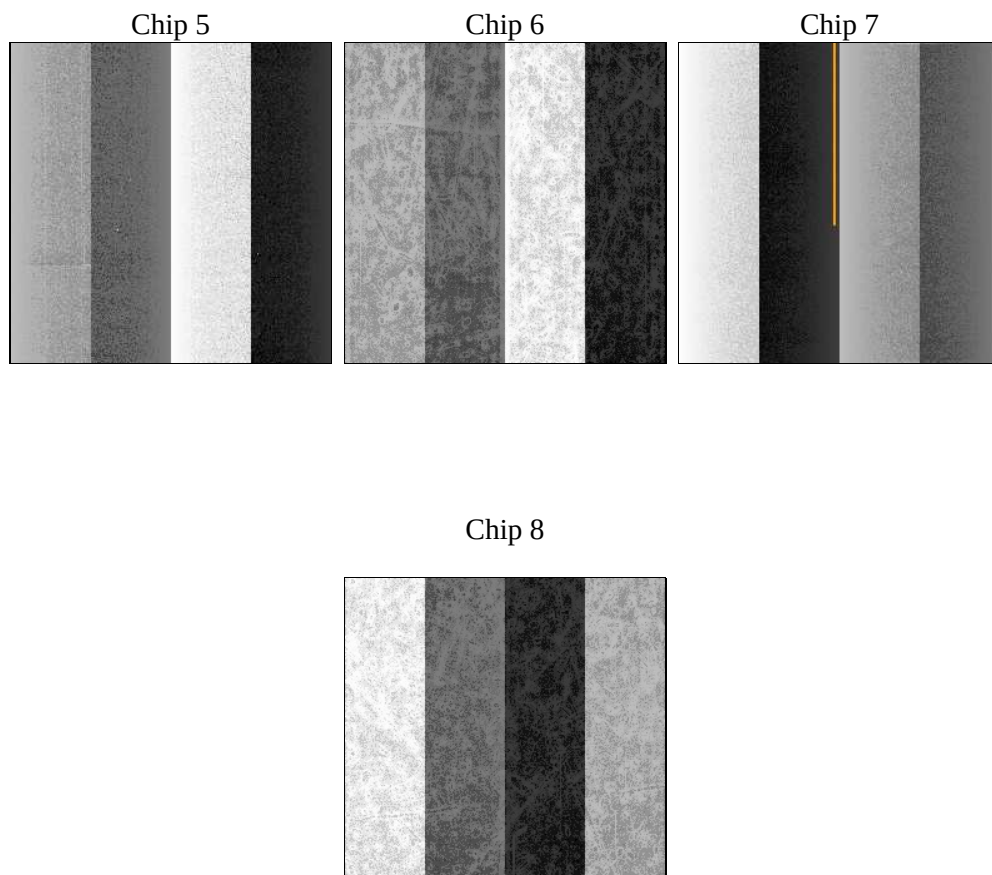
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24001.490000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	24061.289681315	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	24061.248641372	Sum of GTIs [s]
date	2018-08-07T16:32:14	Date and time of file creation	ontime6	24061.207601309	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	24061.289681315	Sum of GTIs [s]
			ontime8	24061.166561365	Sum of GTIs [s]
			l1events	952024	Number of level 1 events

2.1.4 Events

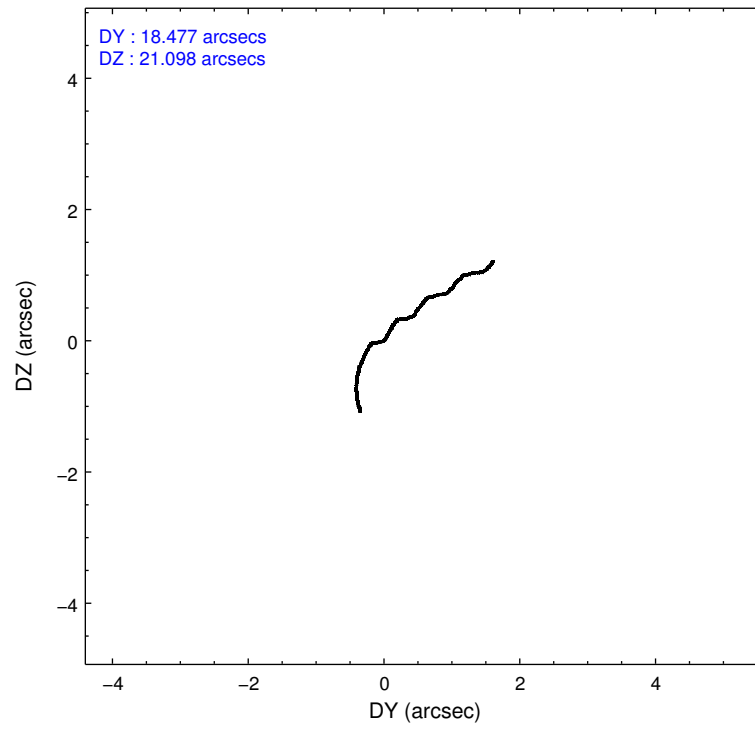
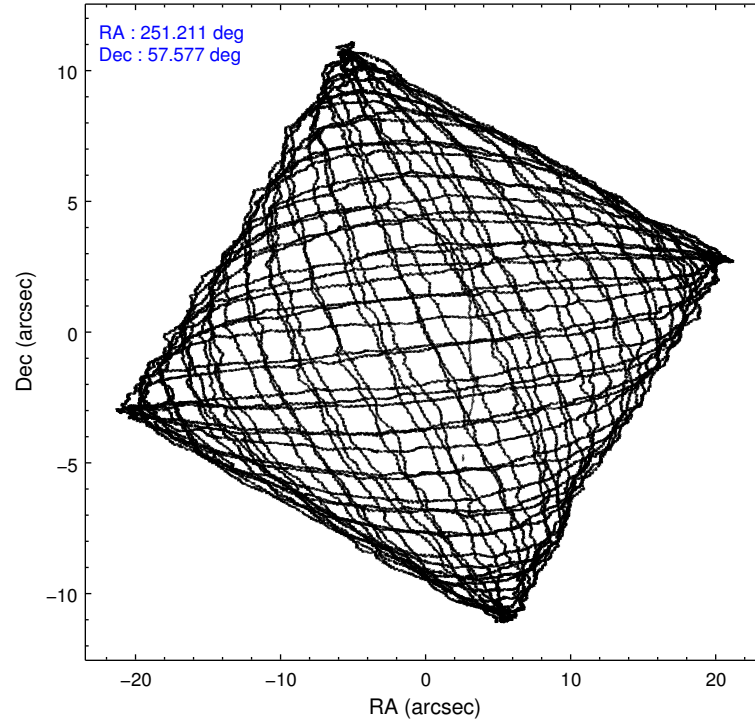
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	296559	183147	232460	239858
rejected events	148223	162528	130542	174955
rejected %	49%	88%	56%	72%

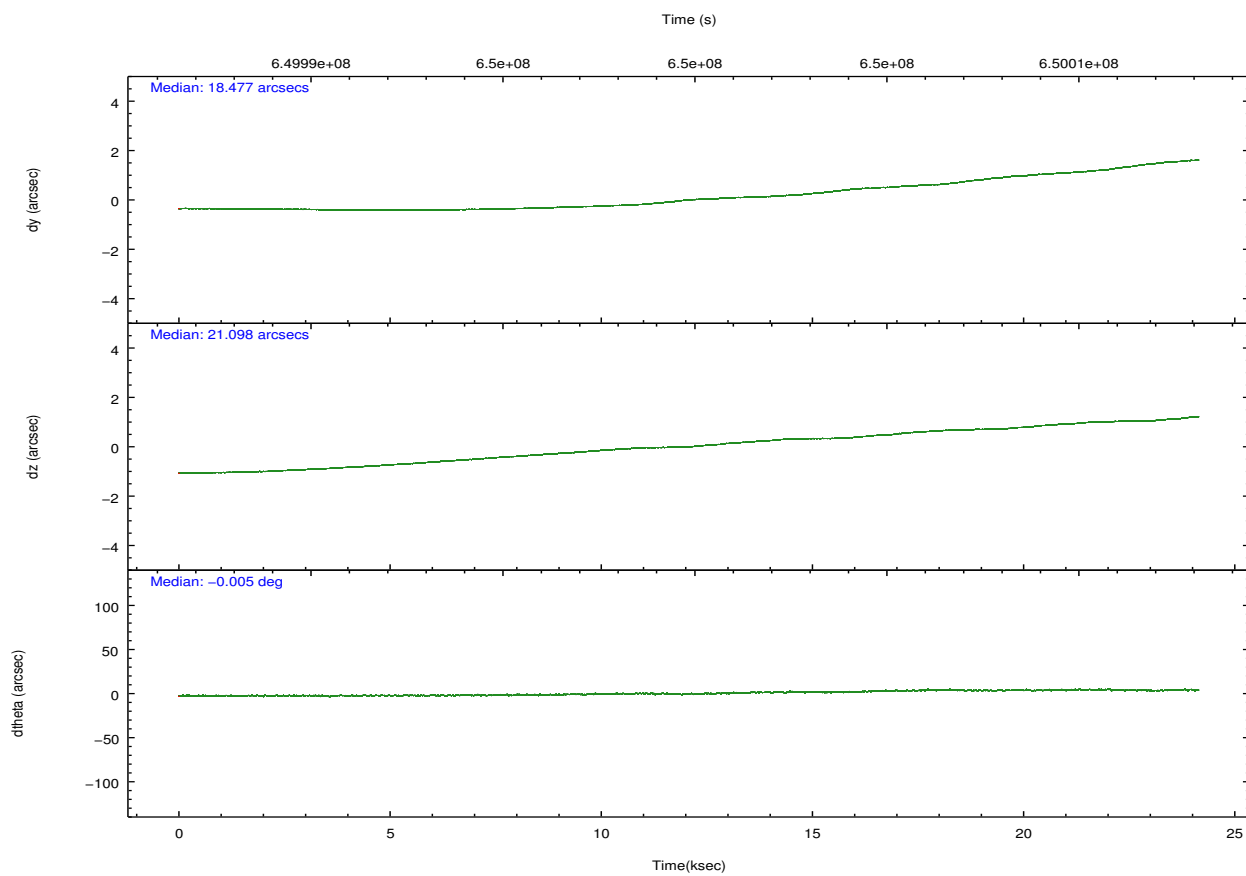
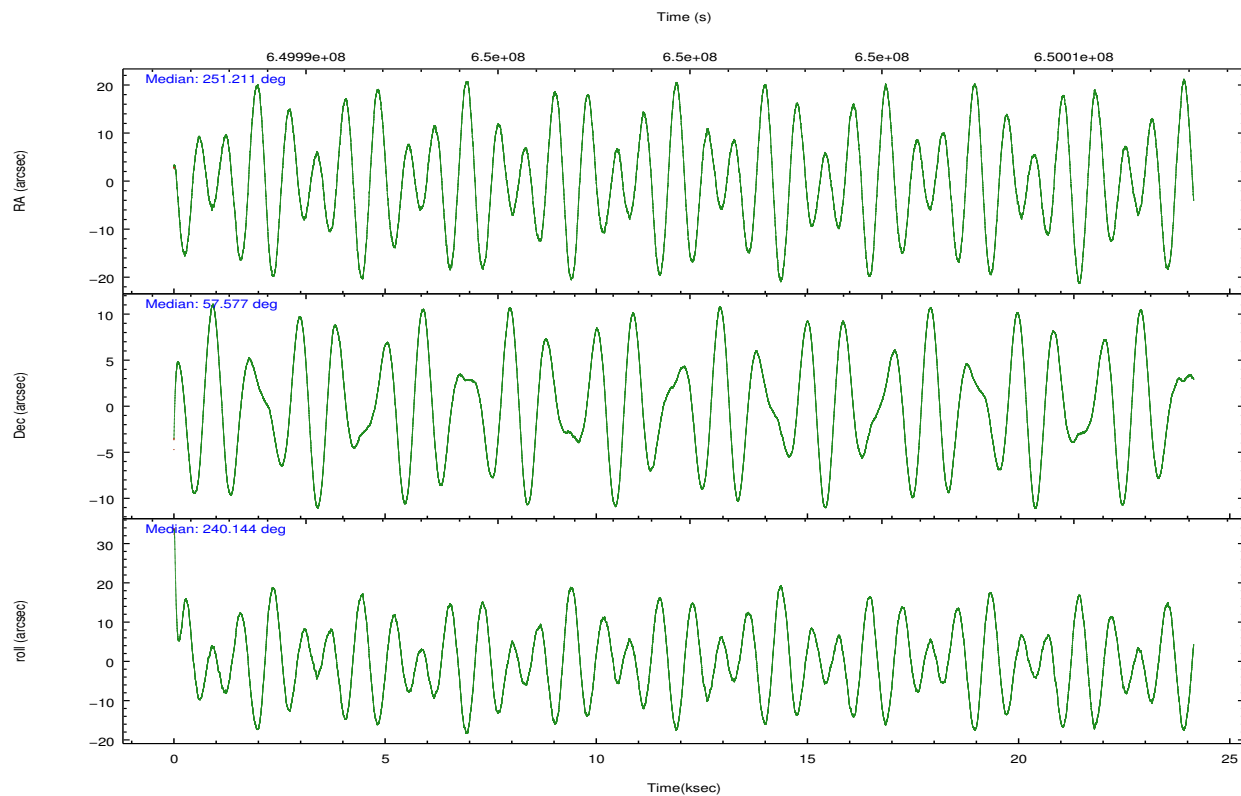
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	18392	6891	8782	18715
	6%	3%	3%	7%
grade 1 events	808	92	321	196
	0%	0%	0%	0%
grade 2 events	45821	4834	21617	15628
	15%	2%	9%	6%
grade 3 events	4291	2022	8326	6877
	1%	1%	3%	2%
grade 4 events	4146	1932	7910	6418
	1%	1%	3%	2%
grade 5 events	19907	8390	23400	13036
	6%	4%	10%	5%
grade 6 events	75715	4944	55301	17336
	25%	2%	23%	7%
grade 7 events	127479	154042	106803	161652
	42%	84%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	251.210568	251.2113859986775	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.604596	57.57714897822439	Alternating exposures requested	N	N
[deg] Pointing Roll	239.997762	240.1537179639166	[s] Primary exposure time	0.000000	3.1
[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)	649987930.184000	649986853.07671			
Observation start date	2018-08-07T00:11:01	2018-08-06T23:54:13			
[s] Observation end time (MET)	650011932.184000	650012774.30325			
Observation end date	2018-08-07T06:51:03	2018-08-07T07:06:14			
Read mode	TIMED	TIMED			

2.3 Aspect



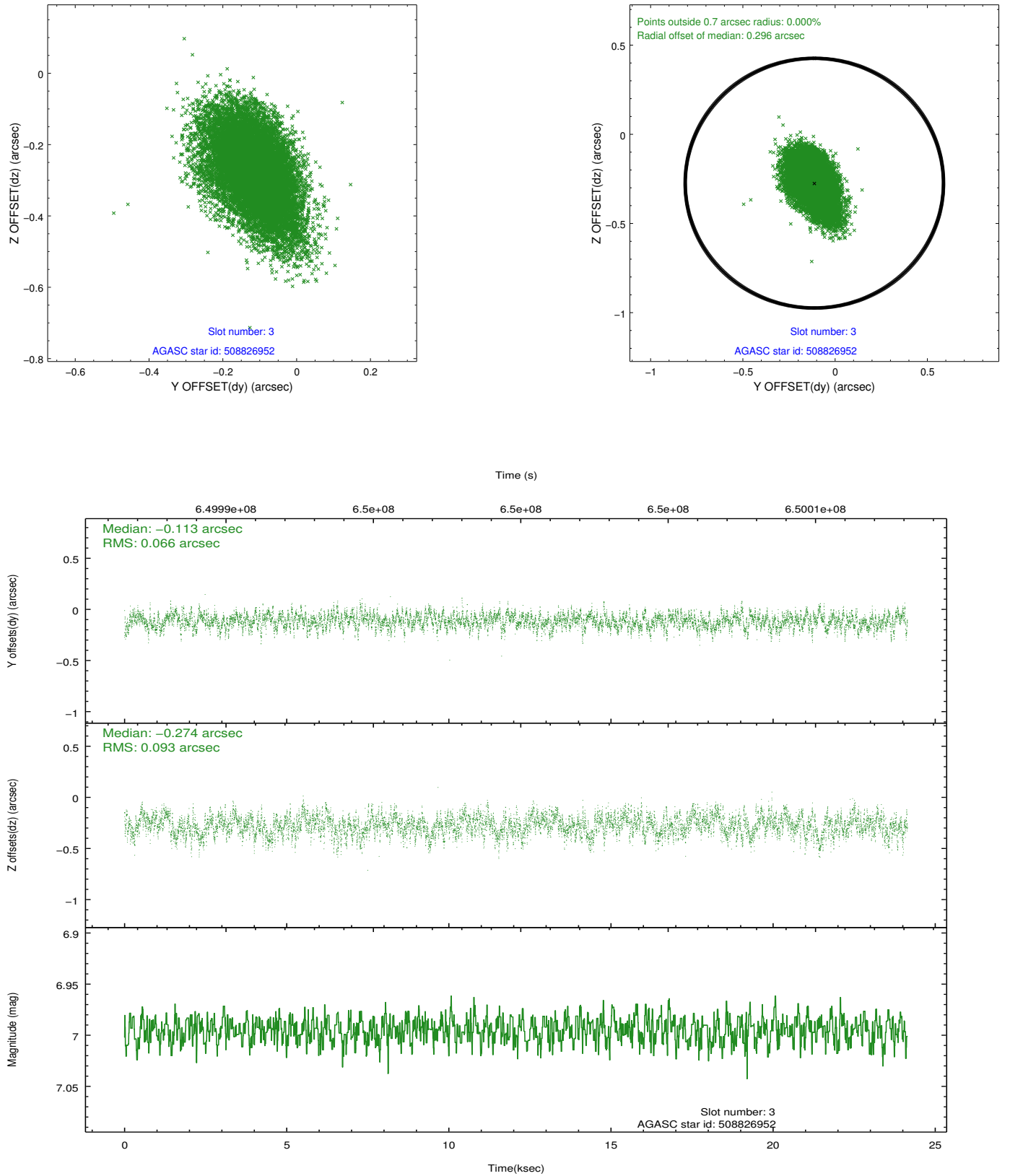


Slot Statistics

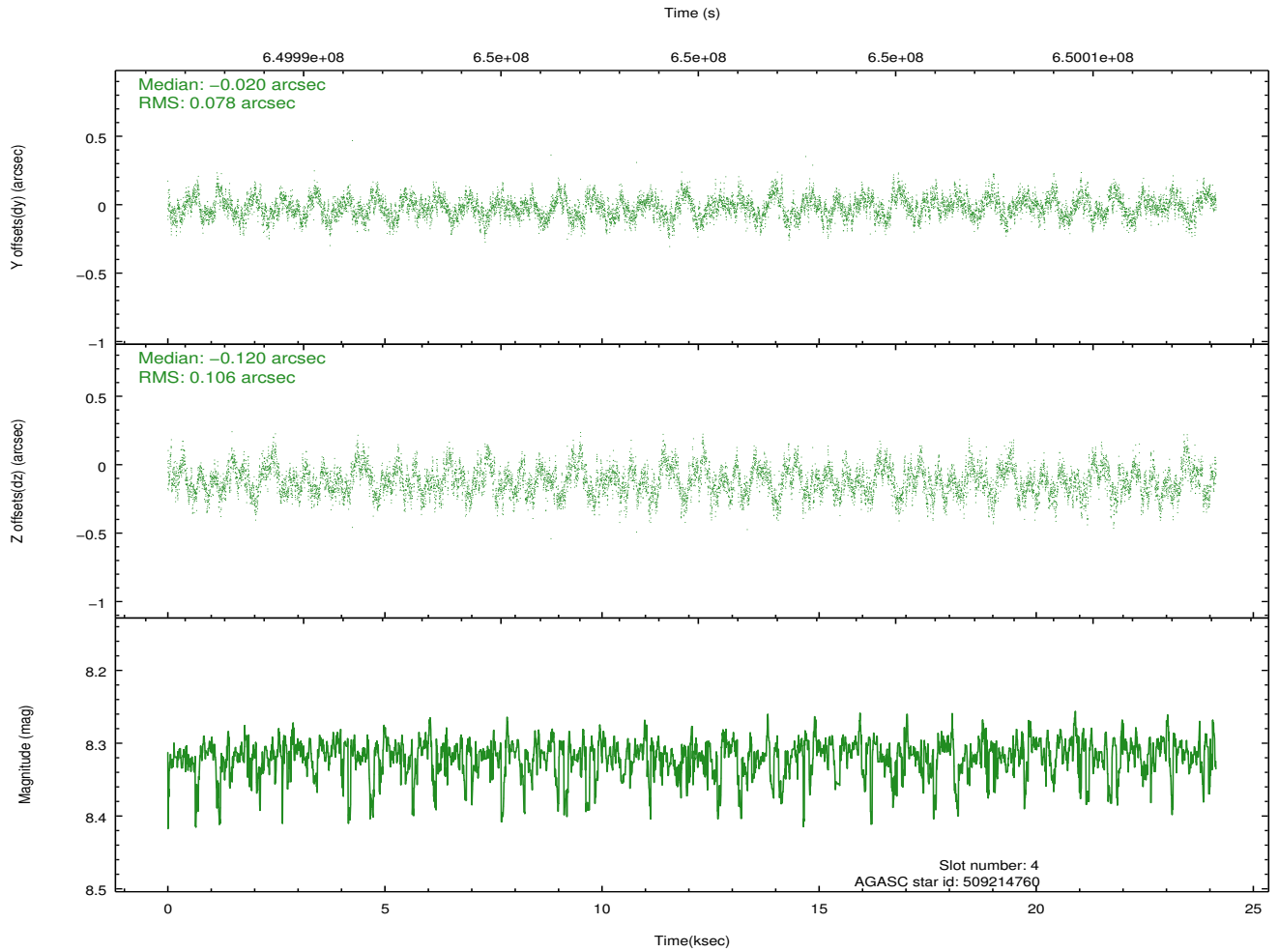
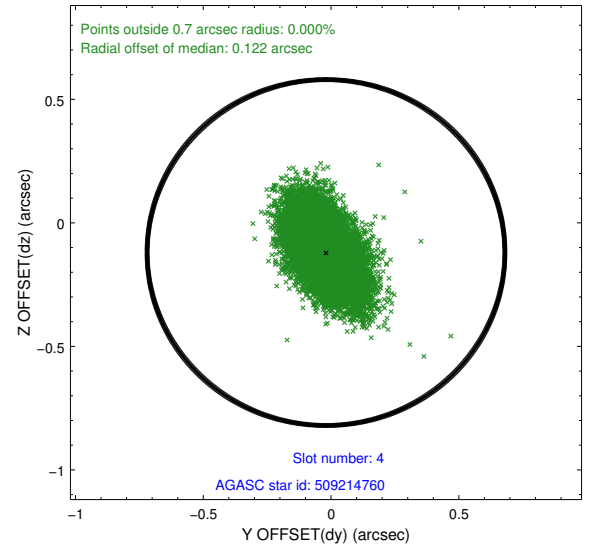
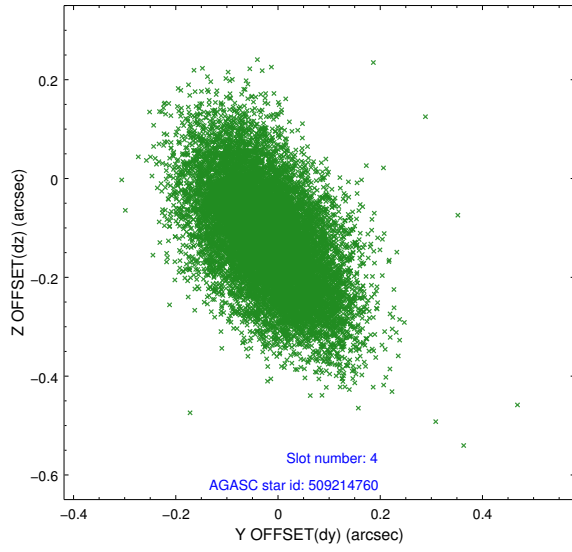
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	5890	1.000	-0.230	-0.121	0.032	0.045	0.000000	0.000000	-771.96	-1742
1	FID		ACIS-S-4	7.16	5888	1.000	0.535	0.143	0.013	0.021	0.000000	0.000000	2142.01	165
2	FID		ACIS-S-5	7.15	5889	1.000	-0.335	-0.012	0.022	0.028	0.000000	0.000000	-1824.75	159
3	GUIDE	used	508826952	6.99	11777	1.000	-0.113	-0.274	0.118	0.203	252.003832	57.489272	-415.53	1532
4	GUIDE	used	509214760	8.32	11773	1.000	-0.020	-0.120	0.139	0.233	250.589992	57.556199	746.11	-953
5	GUIDE	used	509223192	7.65	11777	1.000	-0.042	0.328	0.136	0.203	251.320493	58.085113	-1602.13	-683
6	GUIDE	used	509228136	9.24	11760	1.000	0.130	0.064	0.169	0.276	249.958671	57.735608	776.71	-2329
7	GUIDE	used	509227784	9.23	11765	1.000	0.051	0.003	0.162	0.262	250.982124	57.635413	123.93	-437

2.4 Star Slots

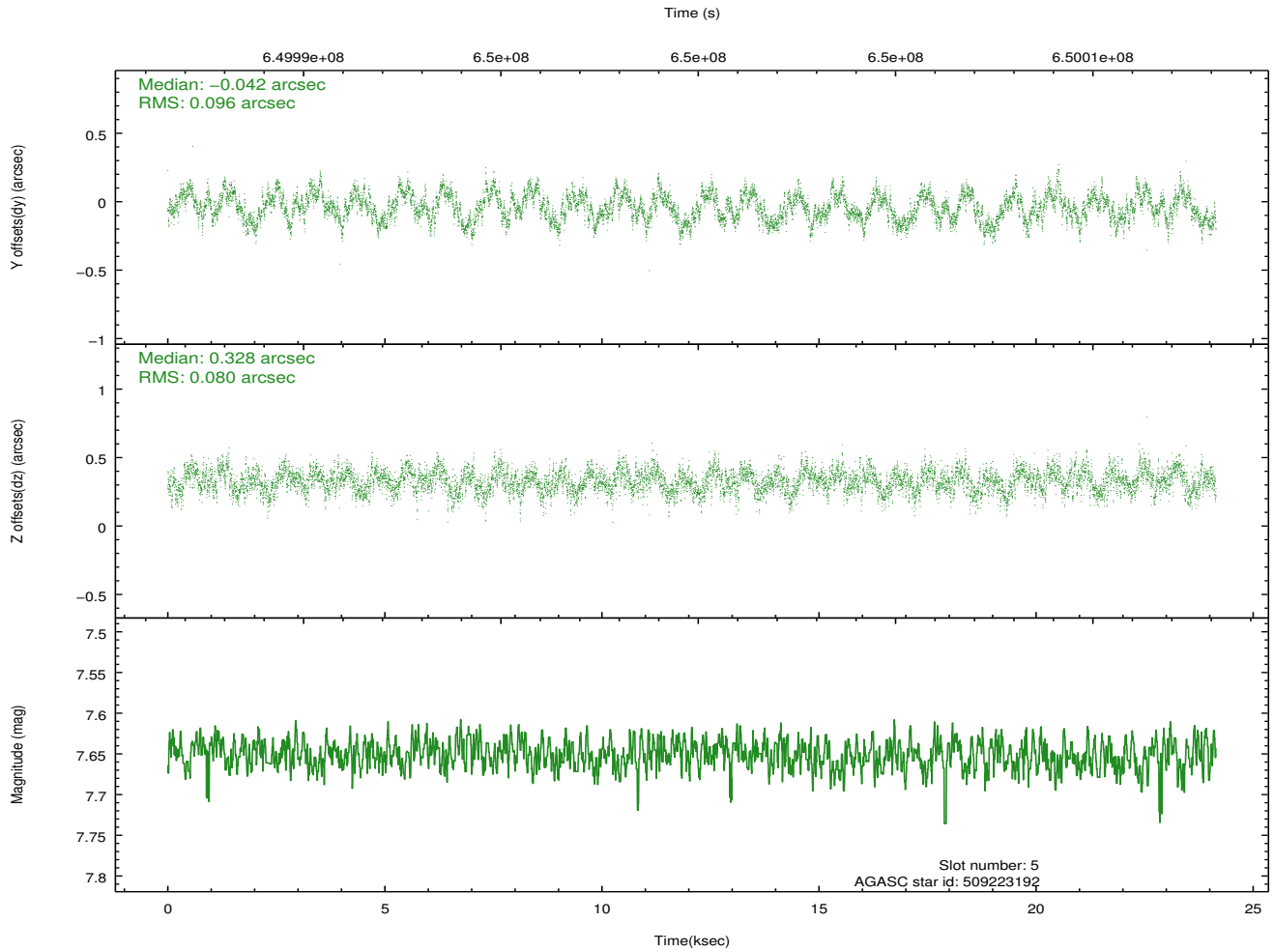
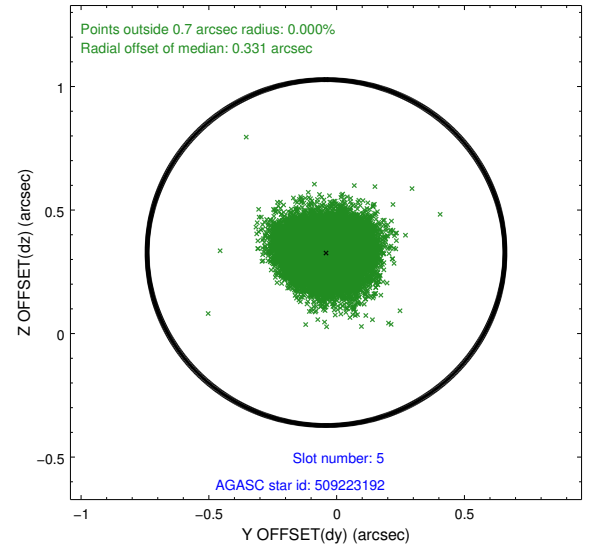
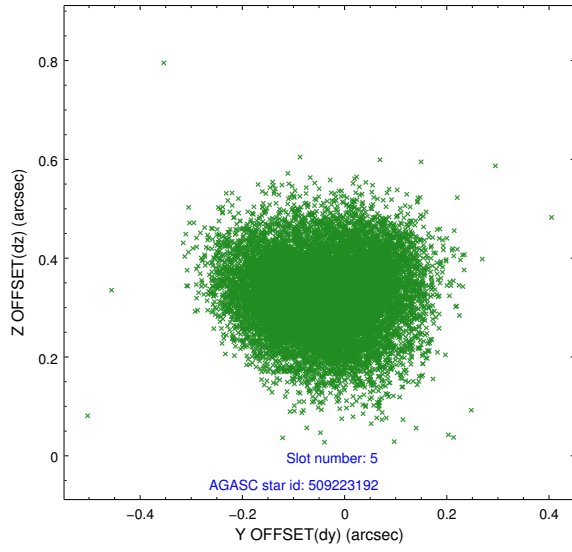
2.4.1 Slot 3



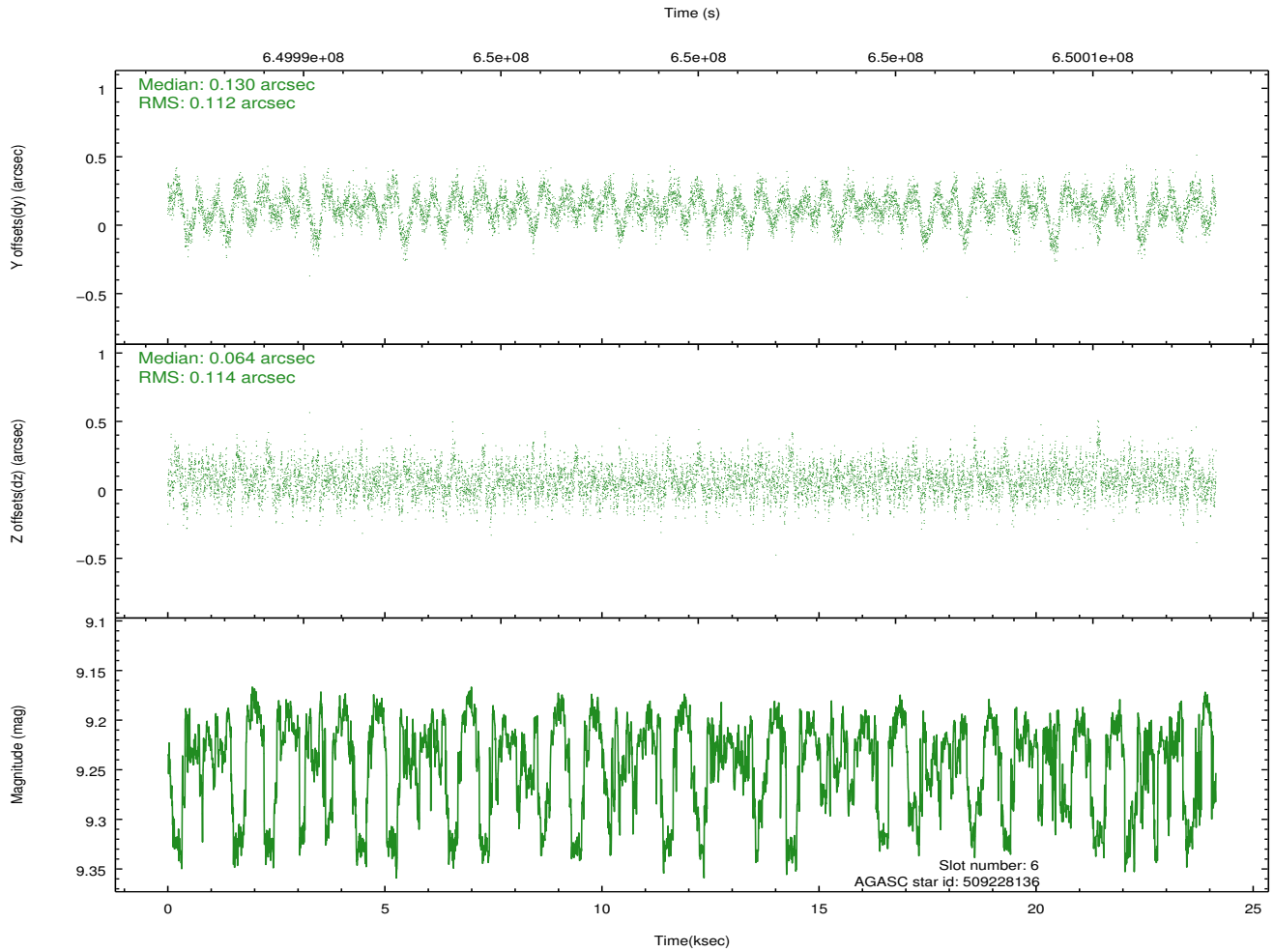
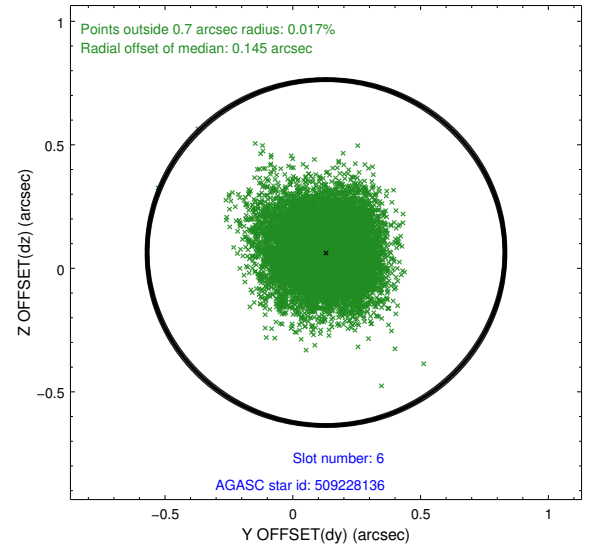
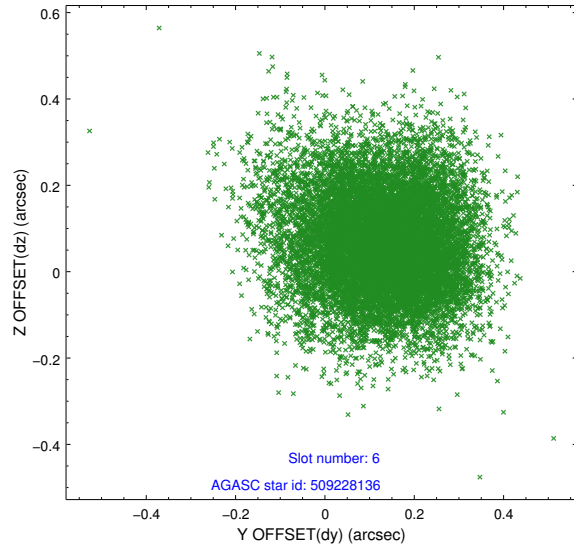
2.4.2 Slot 4



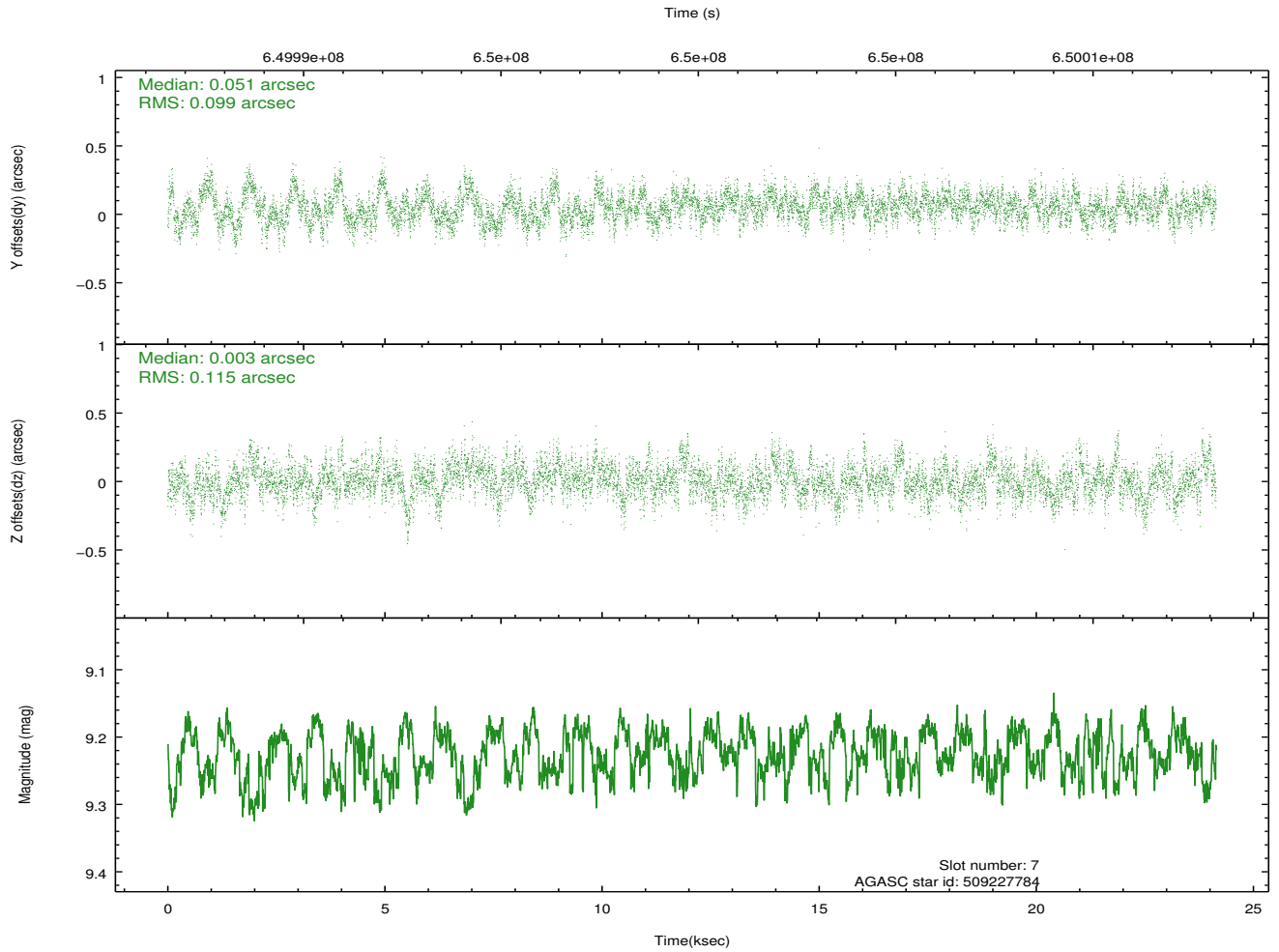
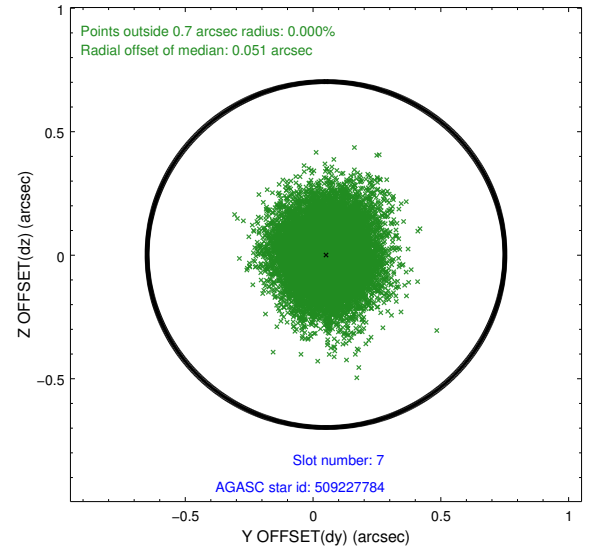
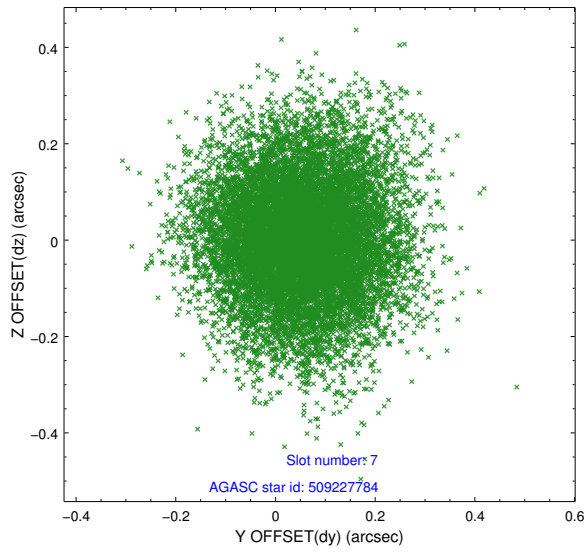
2.4.3 Slot 5



2.4.4 Slot 6

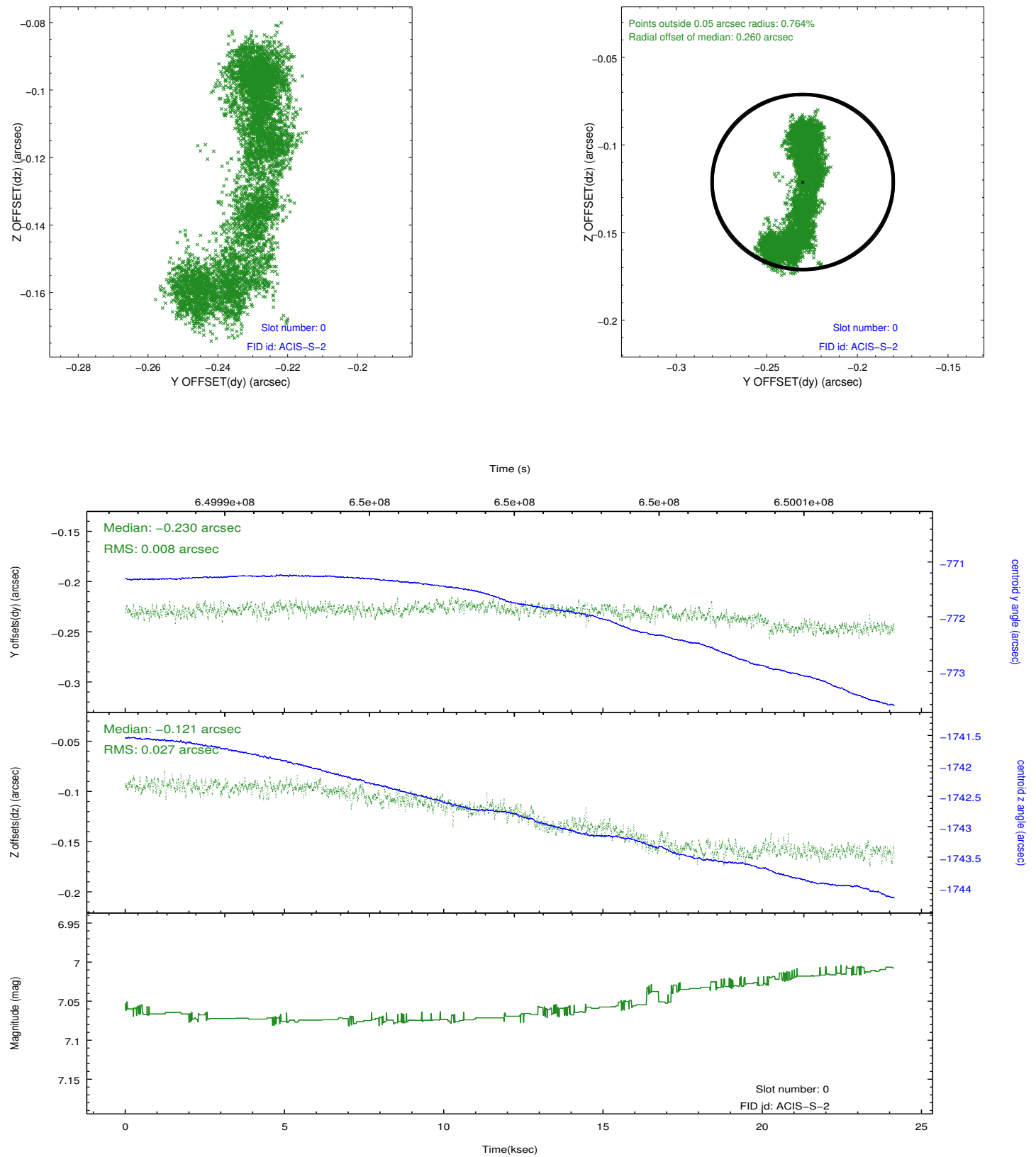


2.4.5 Slot 7

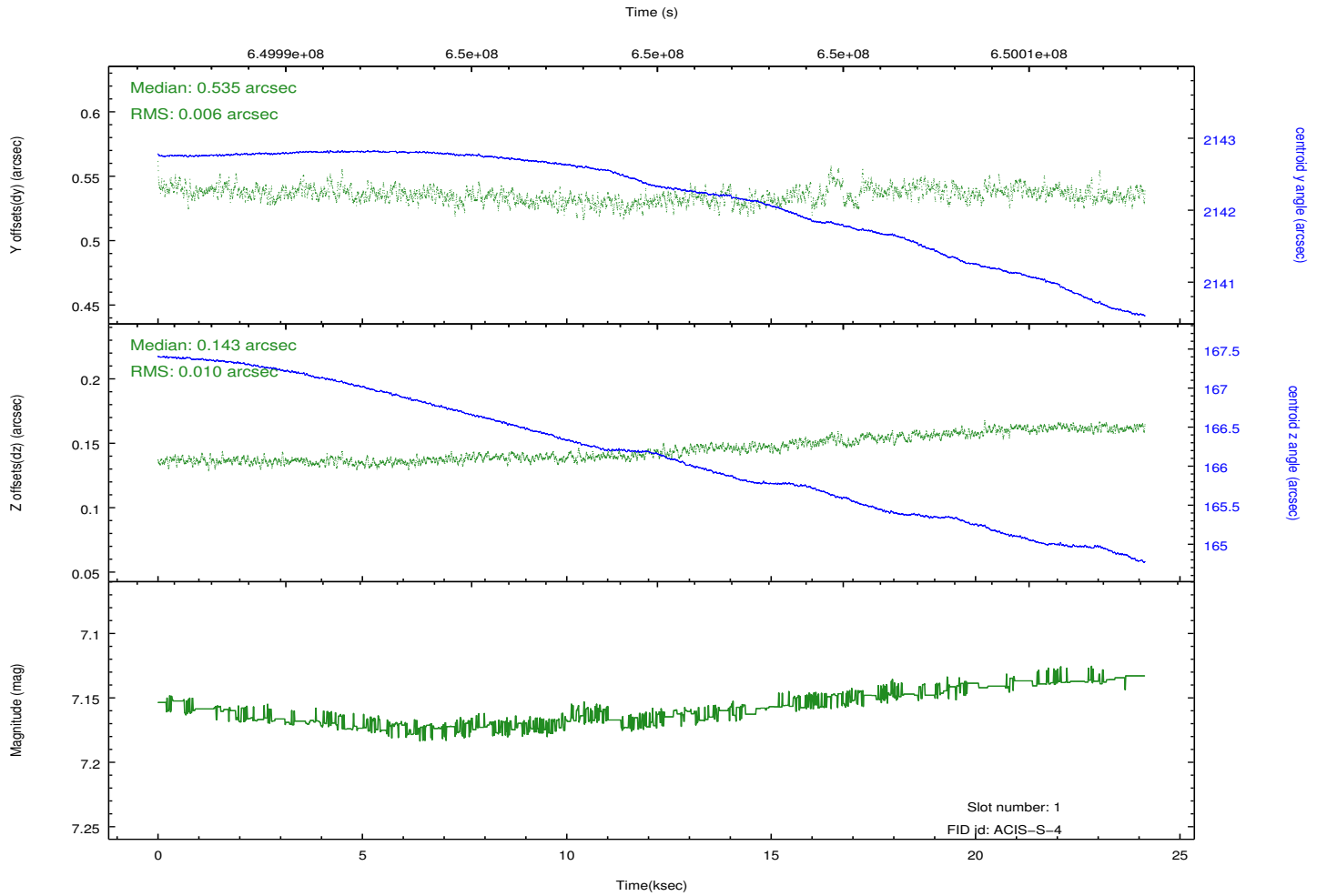
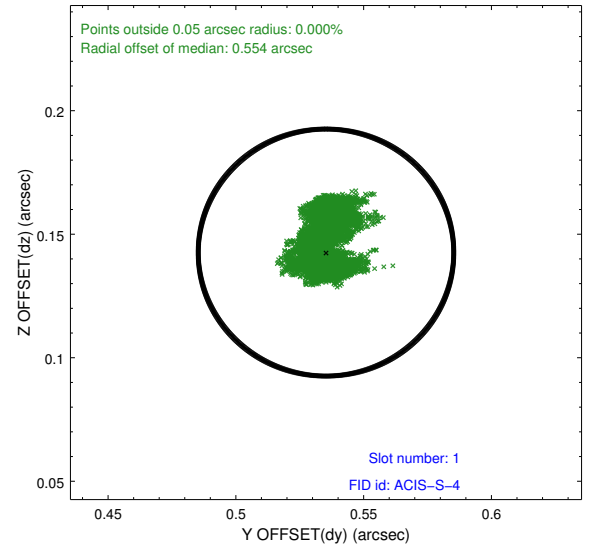
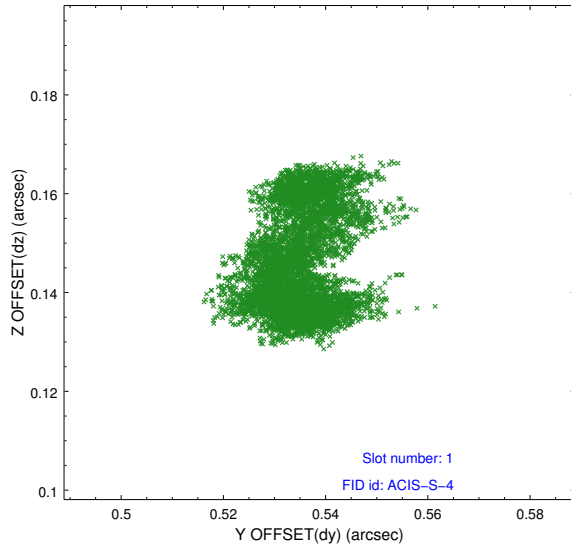


2.5 FID Slots

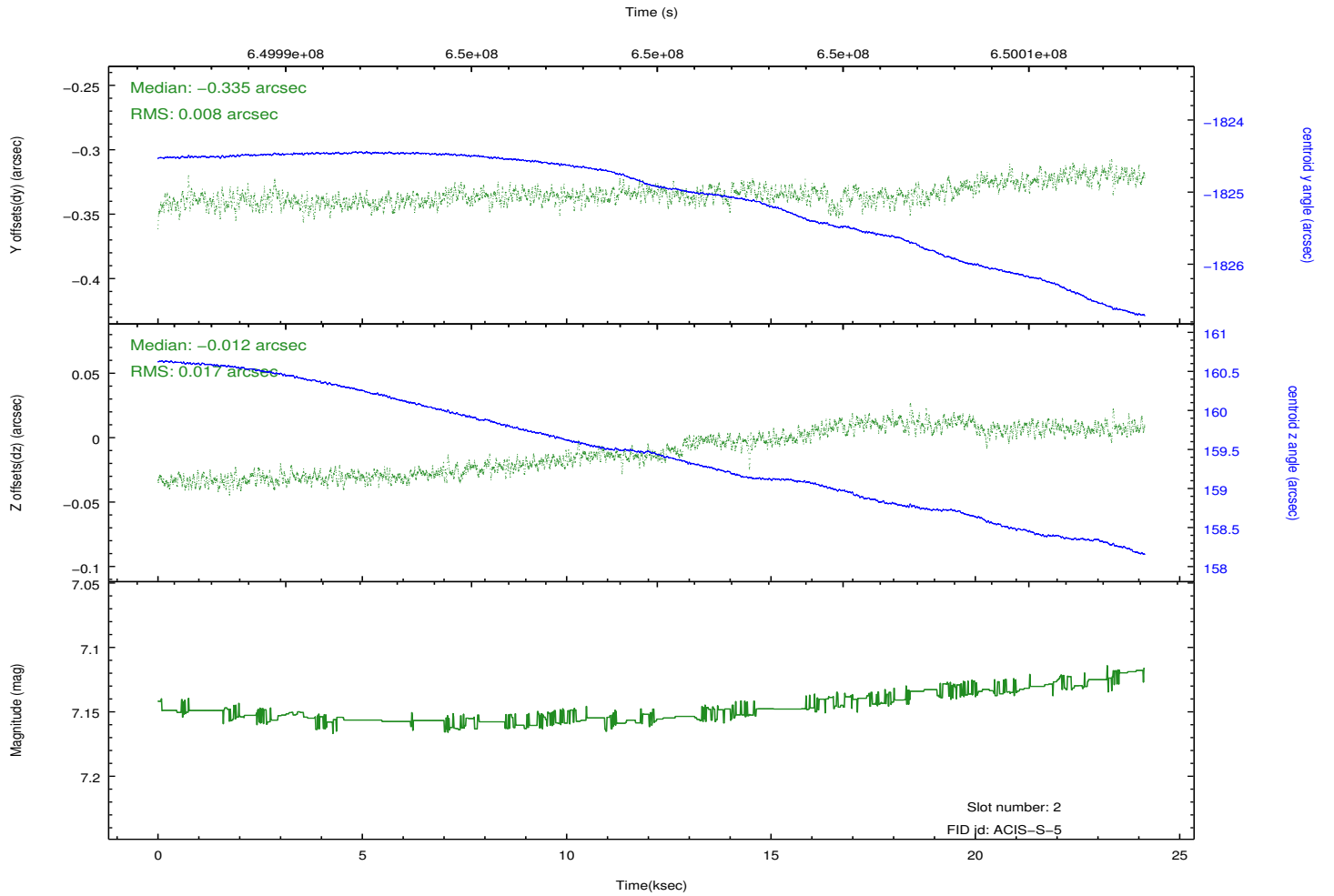
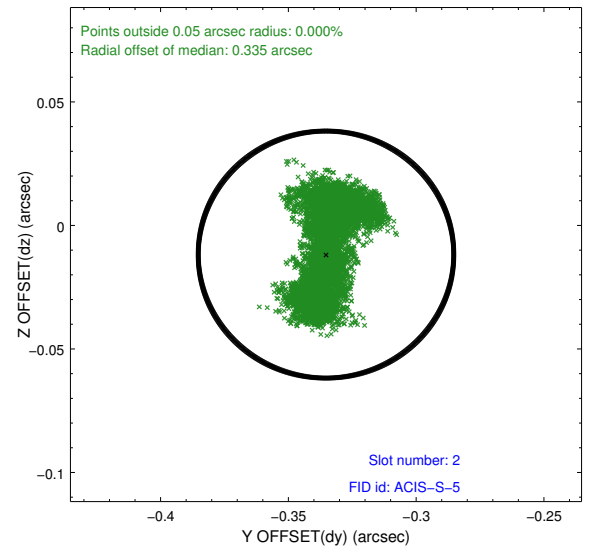
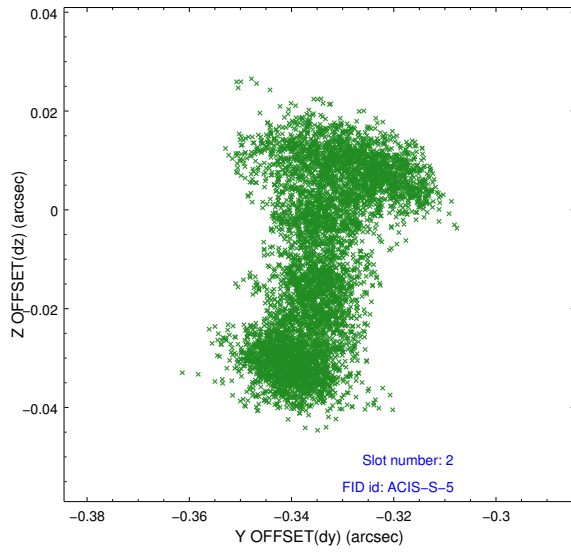
2.5.1 Slot 0



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)	2018.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.061289681315

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with NRAO.