

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19453 - L2 Version 1
Chandra X-Ray Center

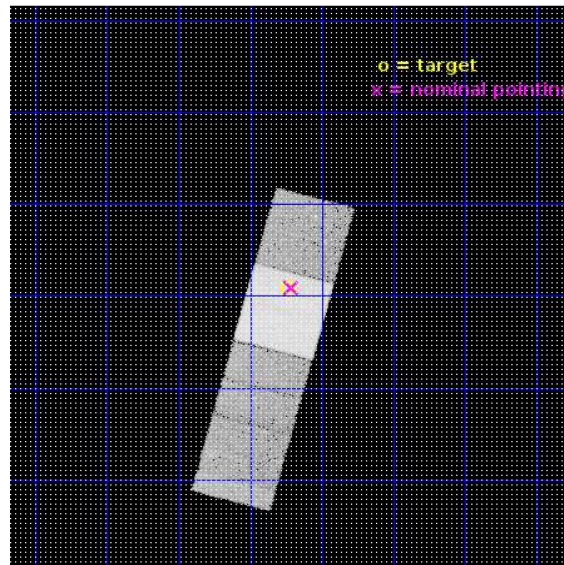
L2 Processing Date : Sep 4 2017

Contents

1	Front	2
2	OBI	3
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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

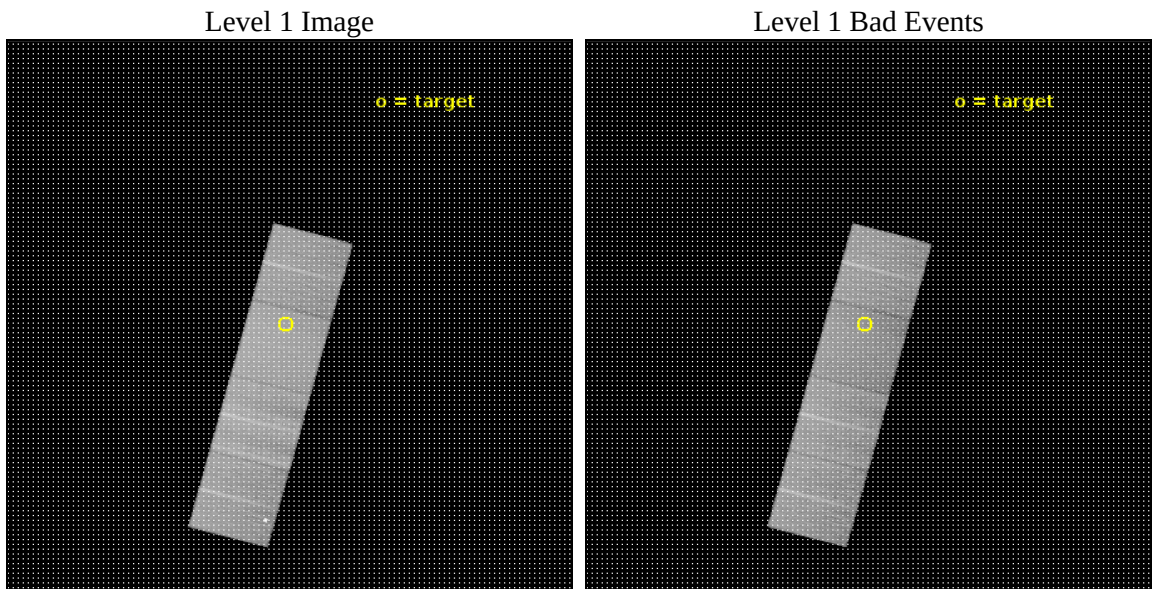
seq_num	703302	Sequence number
obs_id	19453	Observation id
title	Testing the Merger Paradigm: X-ray Observations of Radio-Selected Sub-Galactic-Scale Binary AGNs	Proposal title
observer	Hai Fu	Principal investigator
object	SDSS 0051+0020	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.807917	Observer's specified target RA [deg]
dec_targ	0.346444	Observer's specified target Dec [deg]
ra_nom	12.803393980368	Nominal RA [deg]
dec_nom	0.34827580691962	Nominal Dec [deg]
roll_nom	105.0504911776	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29118.163575292	Sum of GTIs [s]
livetime	28737.7133317	Livetime [s]
ontime6	29118.122535348	Sum of GTIs [s]
ontime7	29118.163575292	Sum of GTIs [s]
ontime8	29118.081495285	Sum of GTIs [s]
ontime9	29118.040455341	Sum of GTIs [s]
l2events	175774	Number of level 2 events



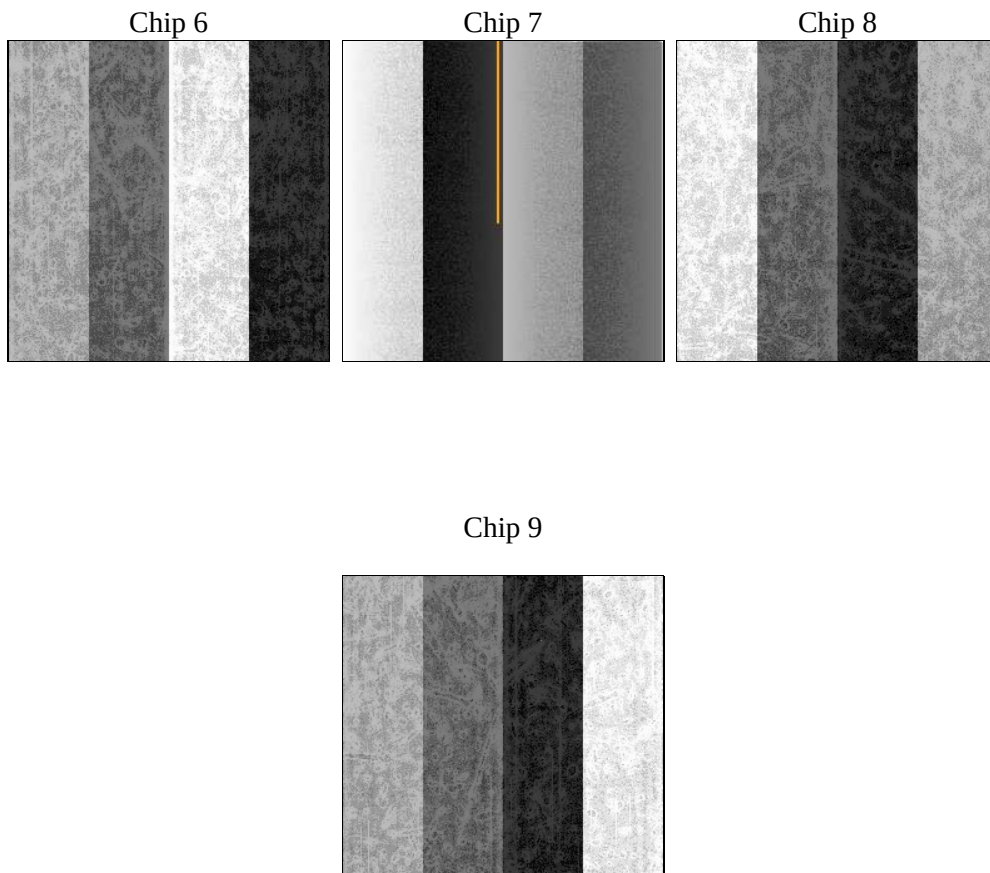
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	29118.163575292	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	29118.122535348	Sum of GTIs [s]
date	2017-09-04T14:30:33	Date and time of file creation	ontime7	29118.163575292	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	29118.081495285	Sum of GTIs [s]
			ontime9	29118.040455341	Sum of GTIs [s]
			l1events	955474	Number of level 1 events

2.1.4 Events

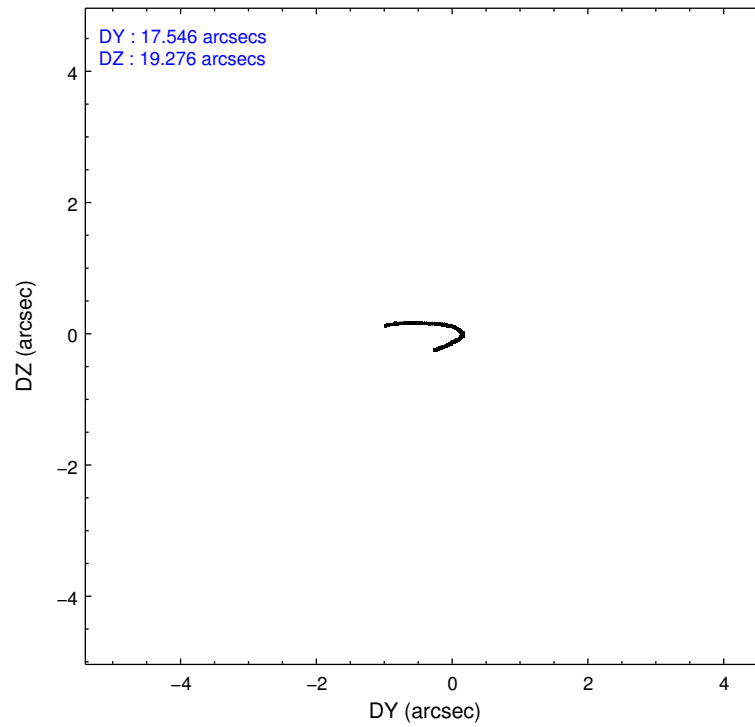
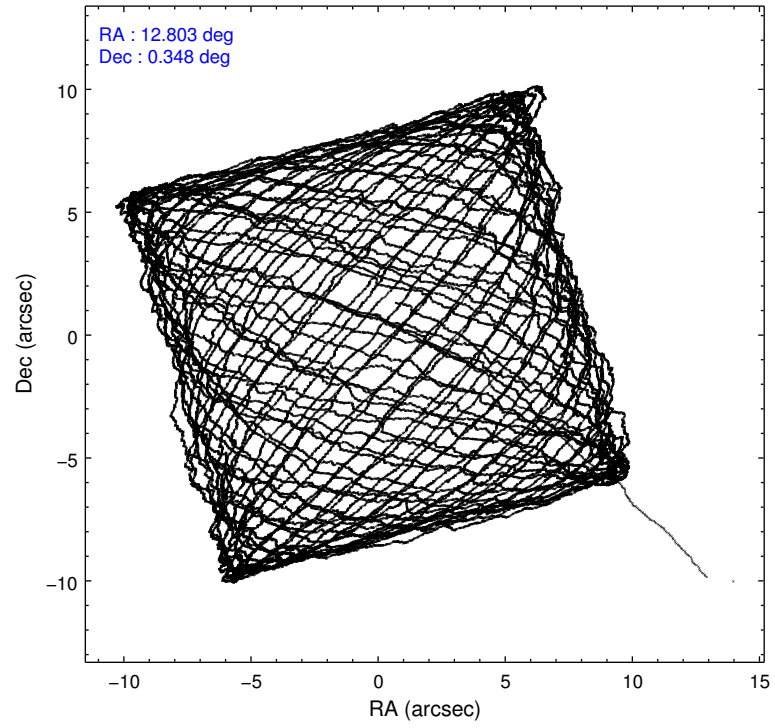
	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	207917	260713	272437	214407
rejected events	184377	147472	199809	180288
rejected %	88%	56%	73%	84%

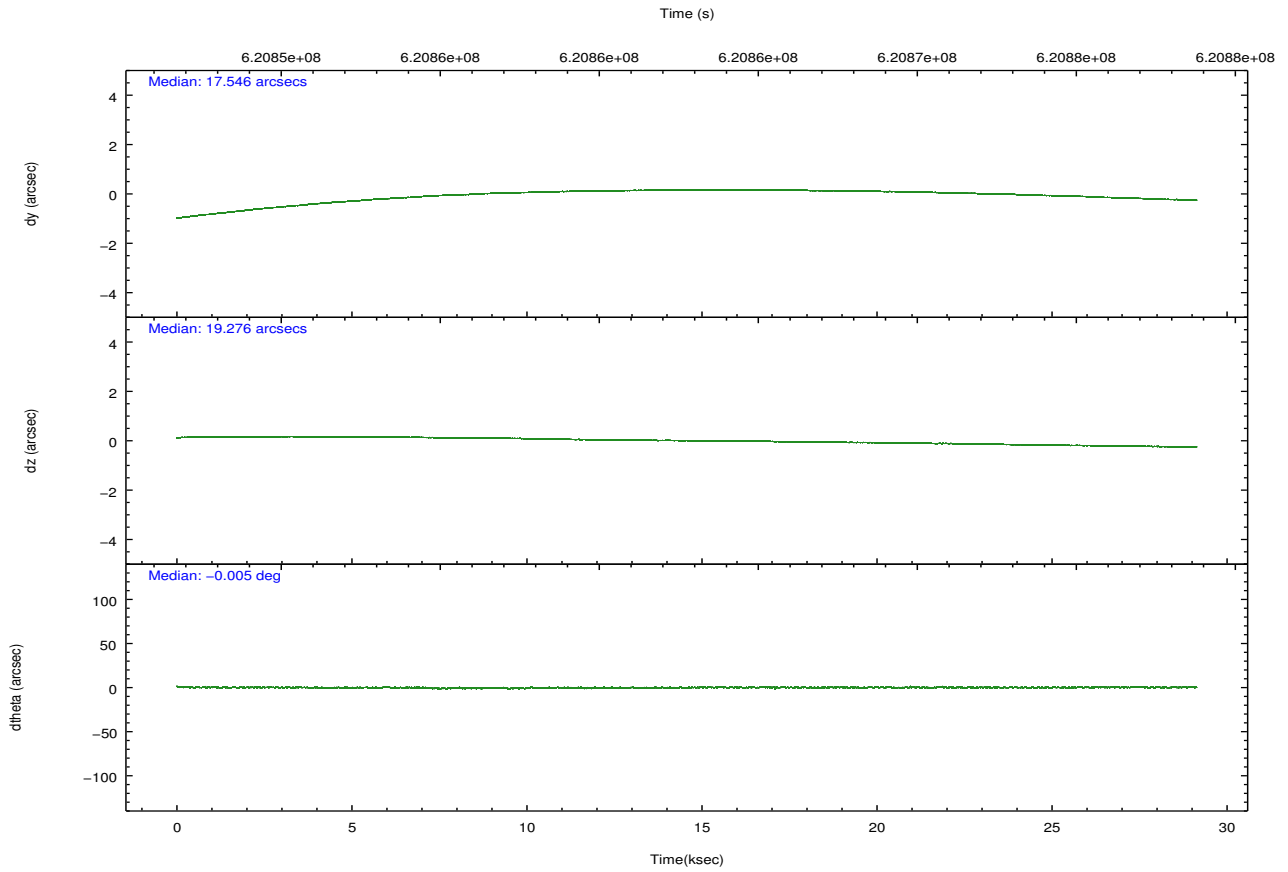
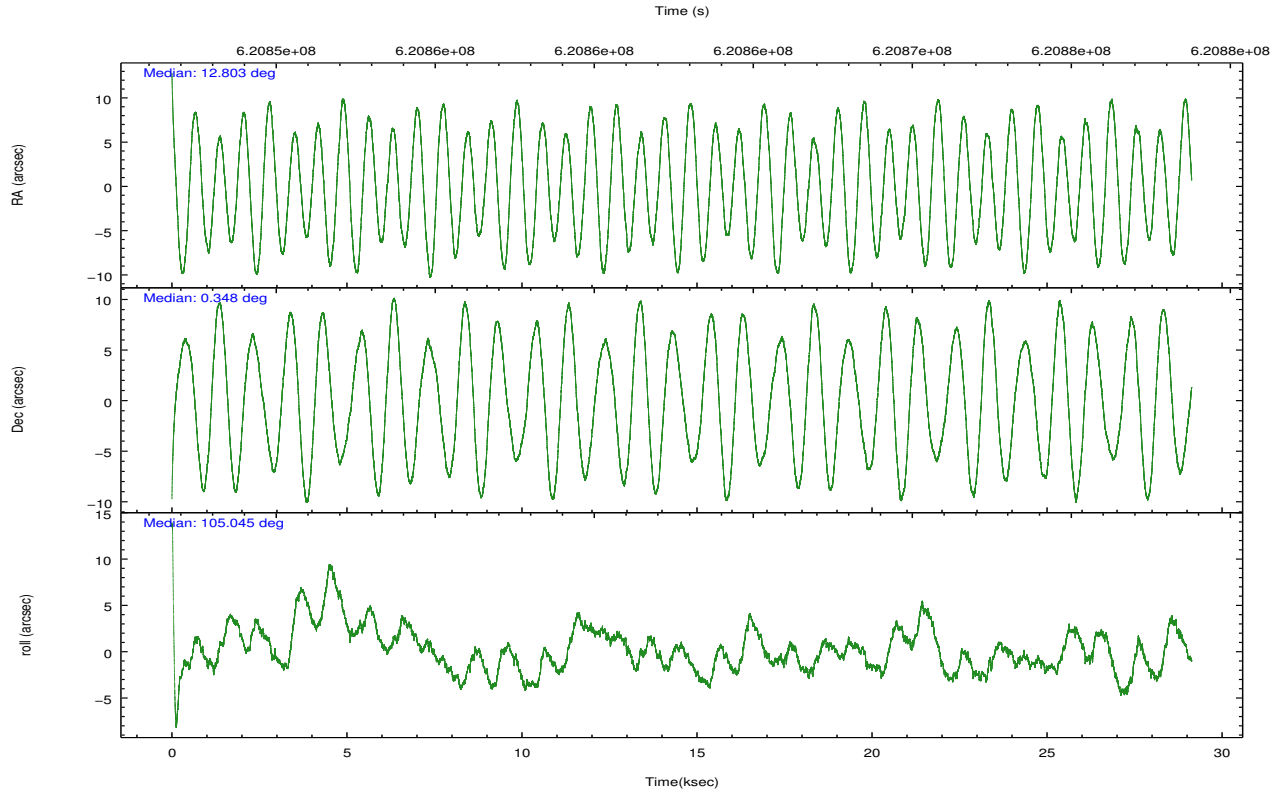
	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	7903	9354	20431	18108
	3%	3%	7%	8%
grade 1 events	105	366	216	148
	0%	0%	0%	0%
grade 2 events	5466	23878	17733	5494
	2%	9%	6%	2%
grade 3 events	2326	9118	7640	2622
	1%	3%	2%	1%
grade 4 events	2267	9134	7234	2473
	1%	3%	2%	1%
grade 5 events	9684	26223	14695	10882
	4%	10%	5%	5%
grade 6 events	5581	61786	19596	5432
	2%	23%	7%	2%
grade 7 events	174585	120854	184892	169248
	83%	46%	67%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-6789	ACIS-6789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	12.823074	12.80339398036772	CCD I2 on	O1	N
[deg] Pointing Dec	0.329151	0.3482758069196195	CCD I3 on	O2	N
[deg] Pointing Roll	104.893732	105.0504911775985	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	620848332.184000	620846657.42276	CCD S5 on	Y	Y
Observation start date	2017-09-03T17:51:03	2017-09-03T17:24:17	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	620877332.184000	620878256.63711	On-chip summing requested	N	N
Observation end date	2017-09-04T01:54:23	2017-09-04T02:10:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



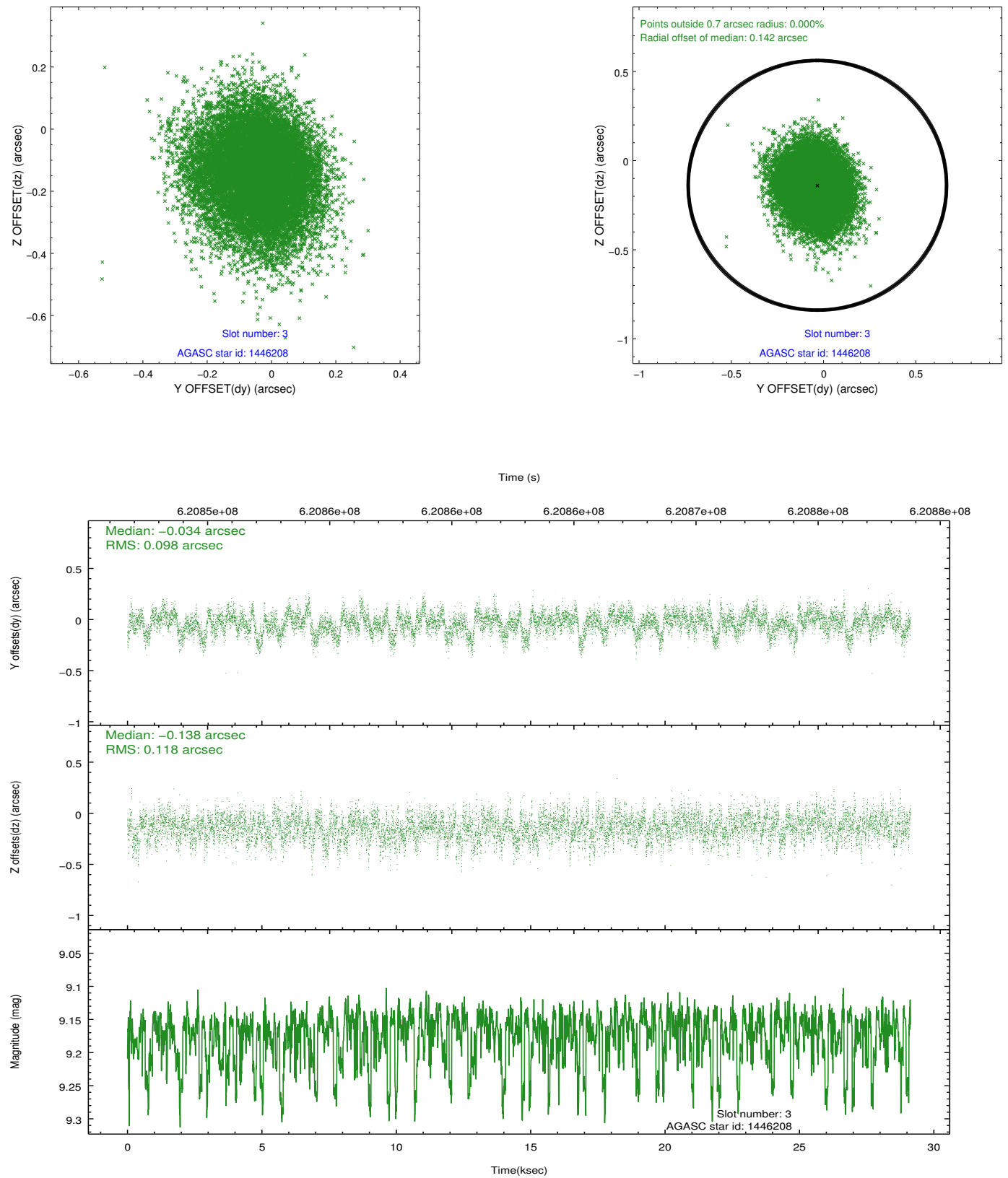


Slot Statistics

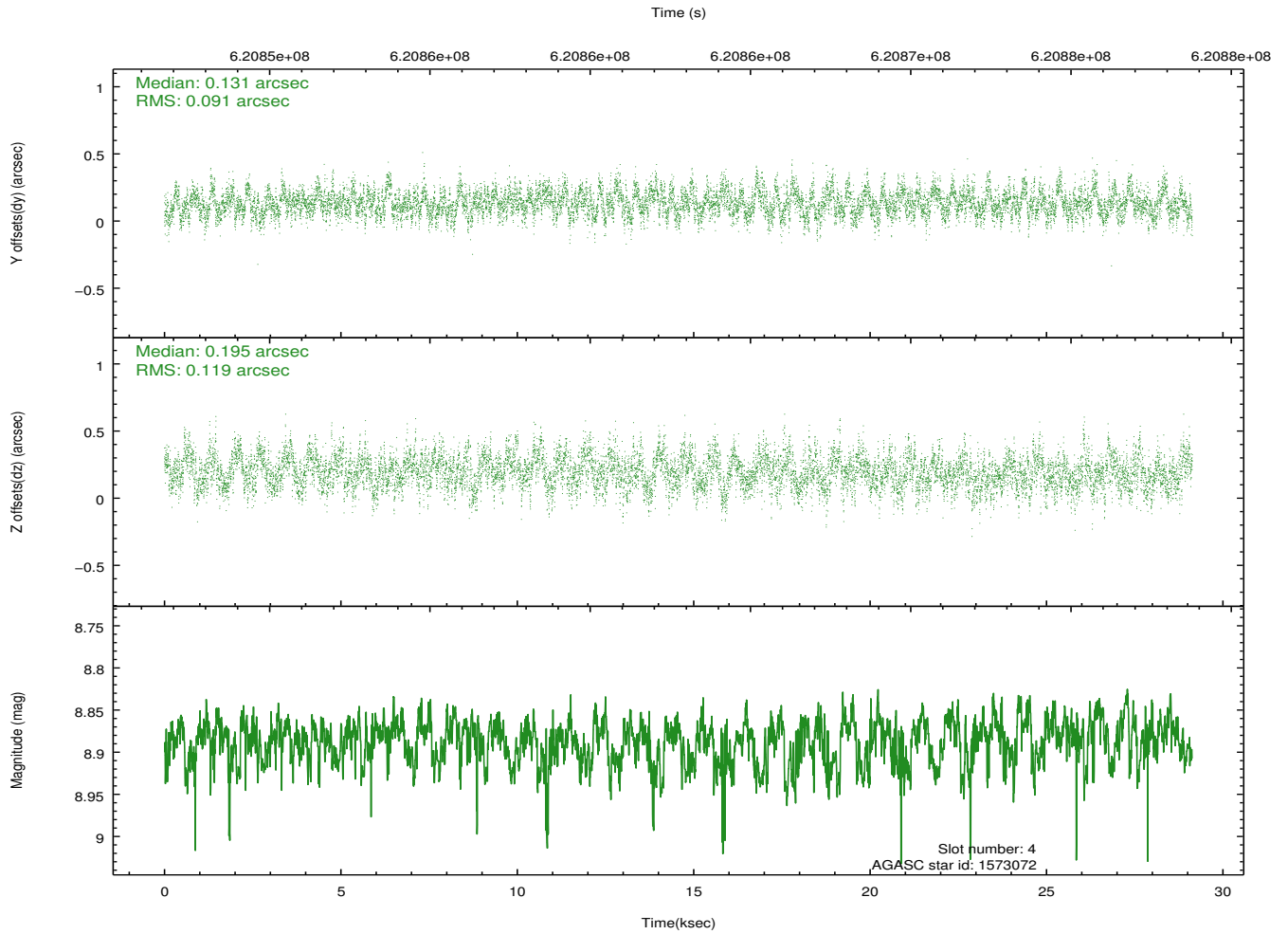
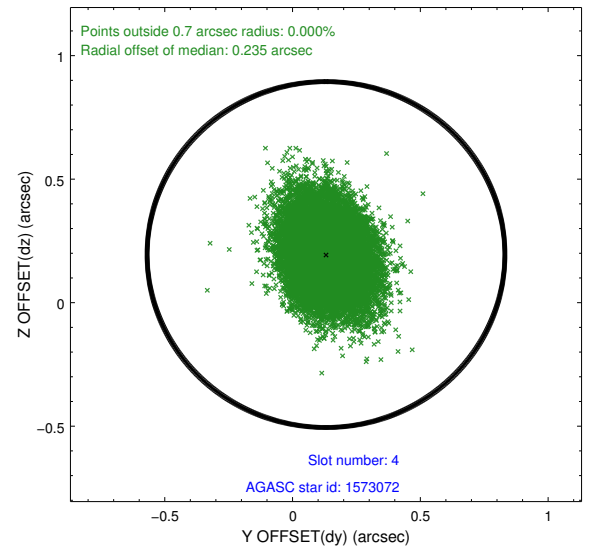
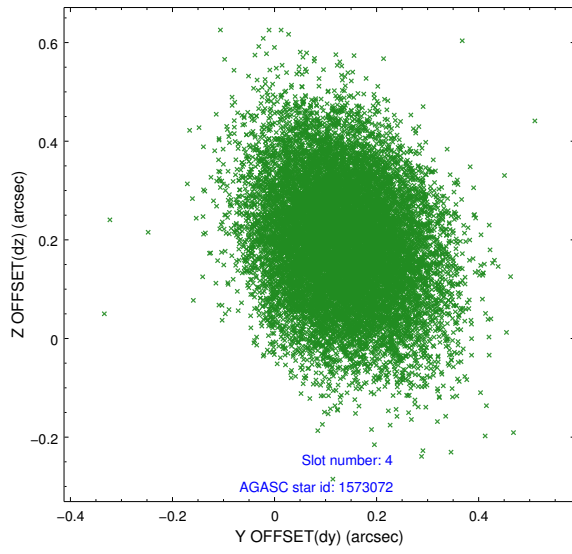
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	7106	-0.205	-0.109	0.010	0.016	0.000000	0.000000	-770.65	-1740.89
1	FID		ACIS-S-4	7.10	7106	0.507	0.128	0.012	0.031	0.000000	0.000000	2143.25	167.81
2	FID		ACIS-S-5	7.10	7105	-0.332	-0.010	0.012	0.032	0.000000	0.000000	-1823.56	161.34
3	GUIDE	used	1446208	9.17	14195	-0.034	-0.138	0.163	0.264	12.396239	0.588171	1296.21	1245.44
4	GUIDE	used	1573072	8.89	14195	0.131	0.195	0.158	0.258	12.859045	0.909941	1986.94	-662.93
5	GUIDE	used	1575296	9.35	14193	-0.311	0.166	0.166	0.277	12.600423	0.316160	160.86	786.83
6	GUIDE	used	612632872	8.62	14200	0.324	0.180	0.133	0.229	12.666370	-0.080556	-1282.04	925.88
7	GUIDE	used	1452160	8.21	14200	-0.102	-0.400	0.128	0.219	12.138425	0.382048	816.77	2331.78

2.4 Star Slots

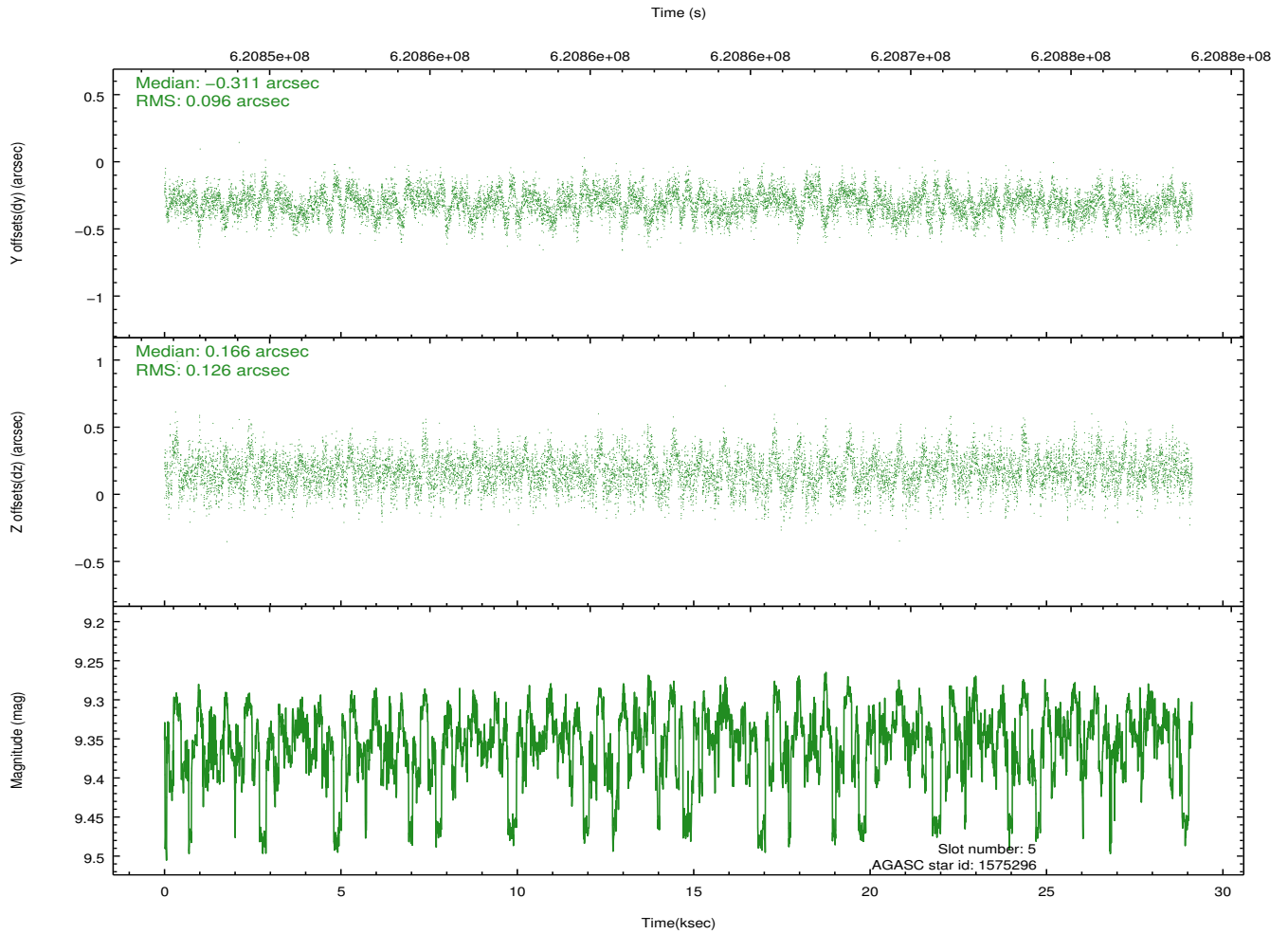
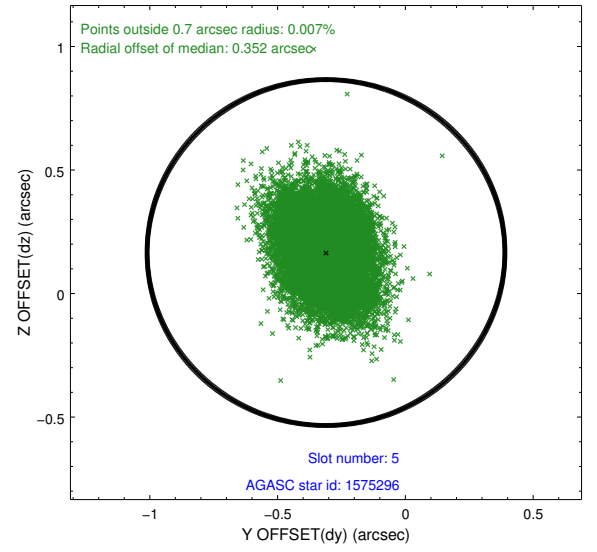
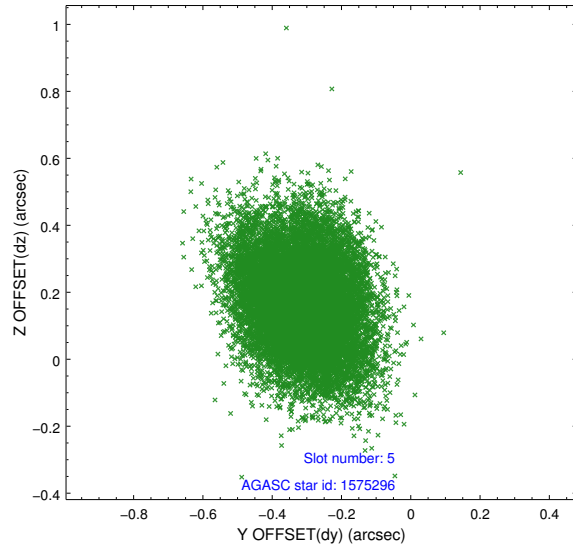
2.4.1 Slot 3



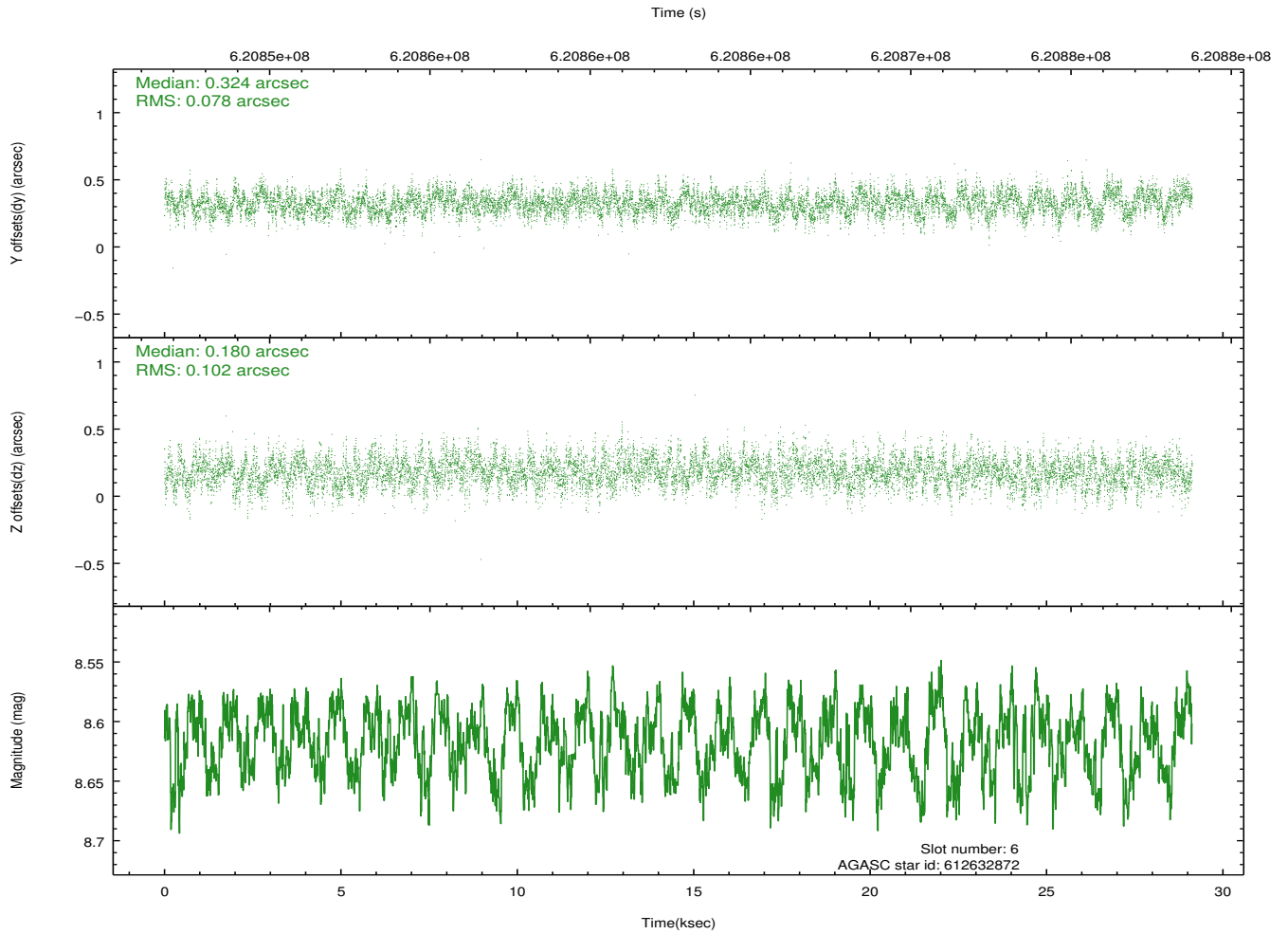
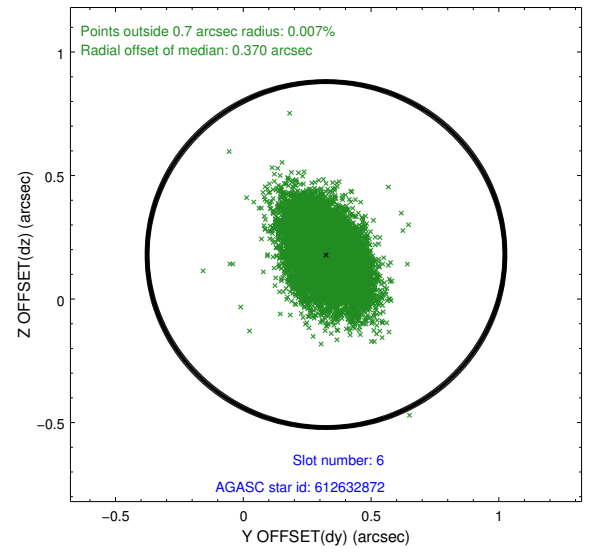
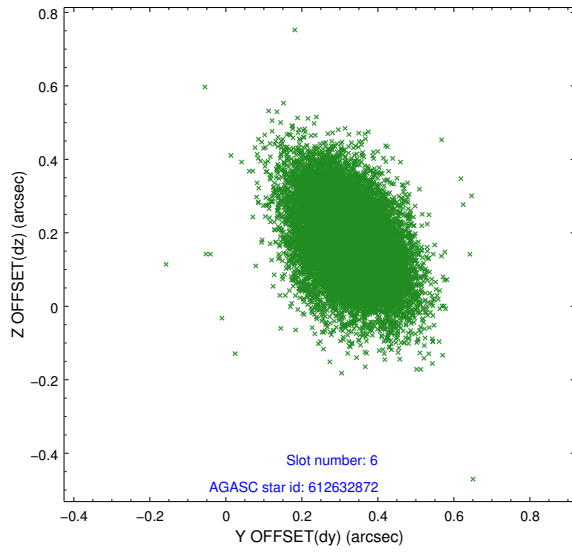
2.4.2 Slot 4



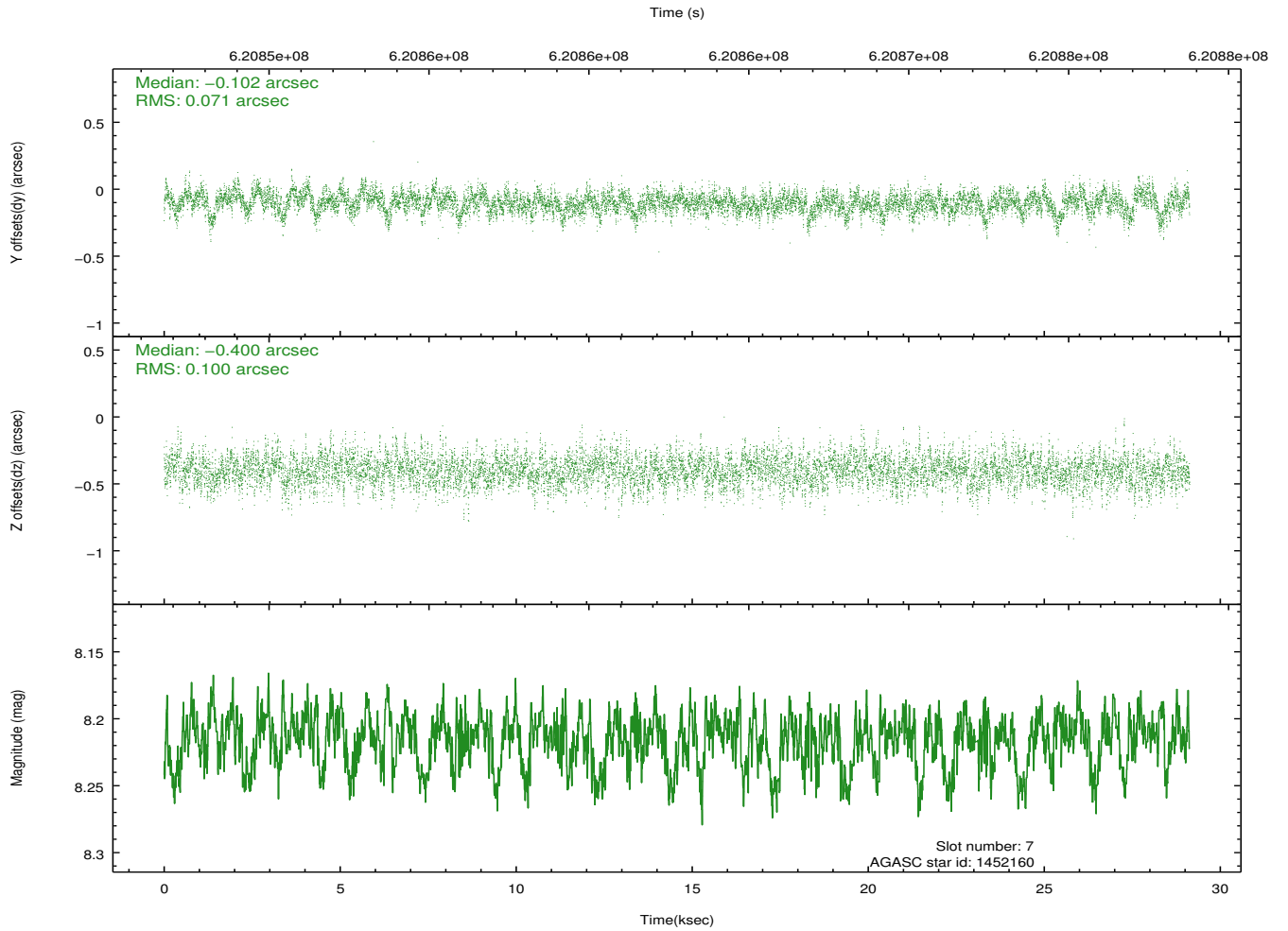
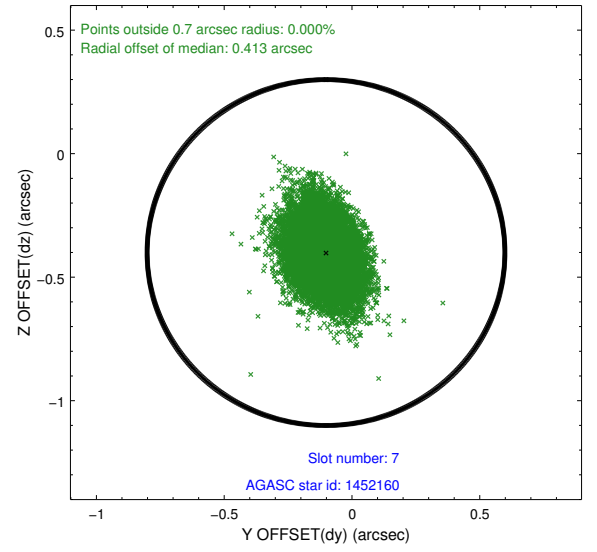
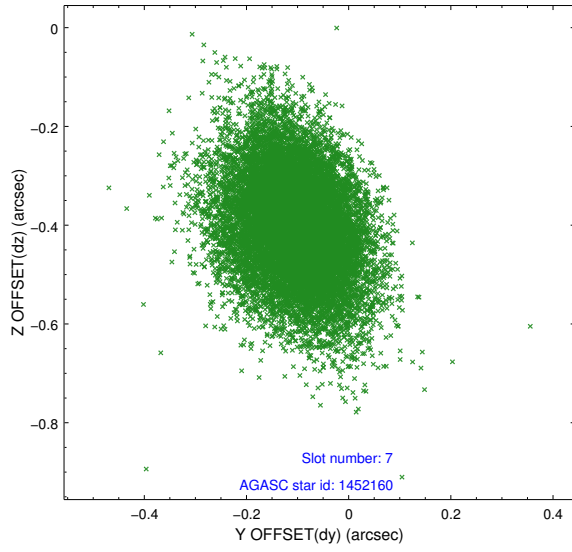
2.4.3 Slot 5



2.4.4 Slot 6

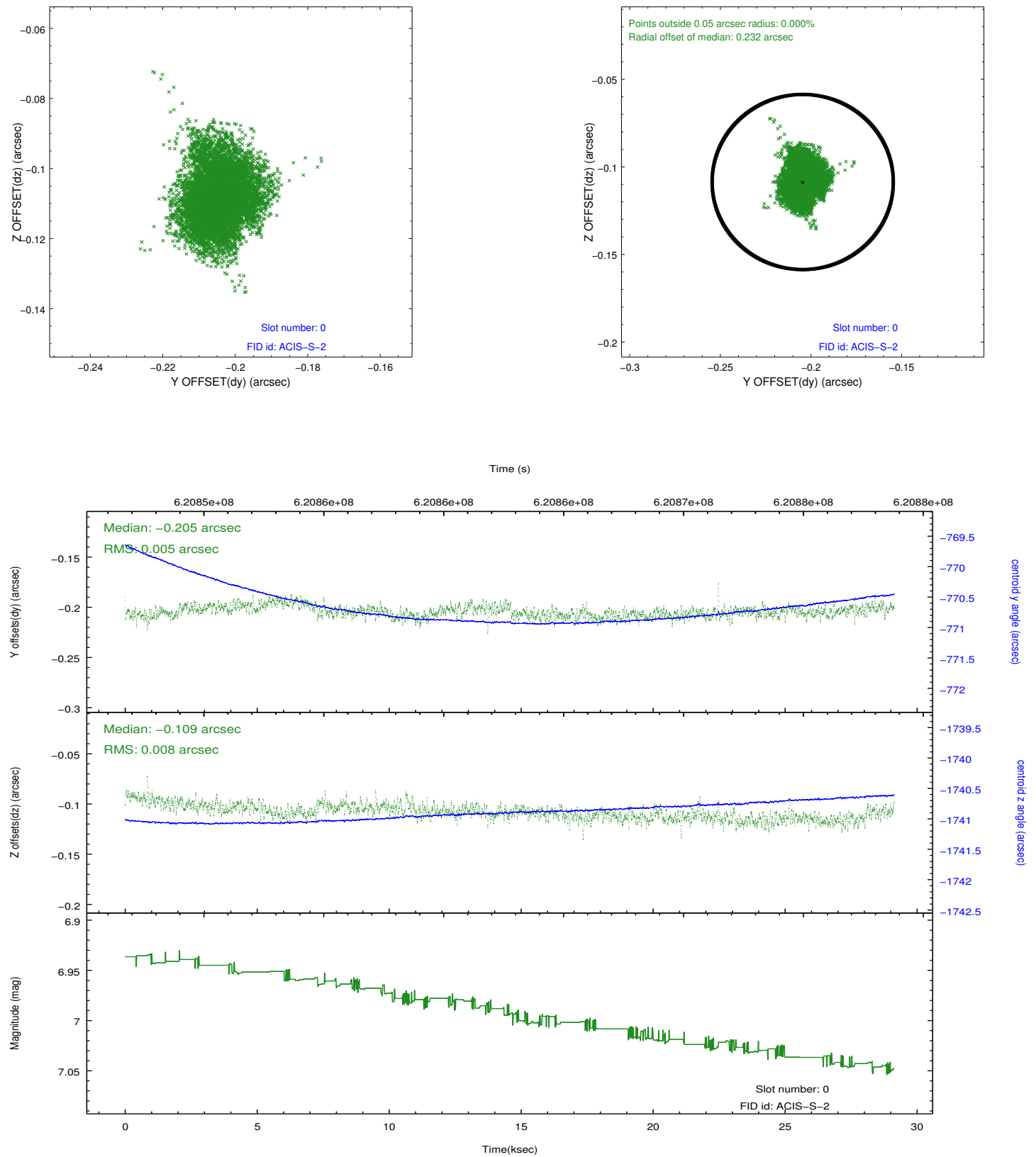


2.4.5 Slot 7

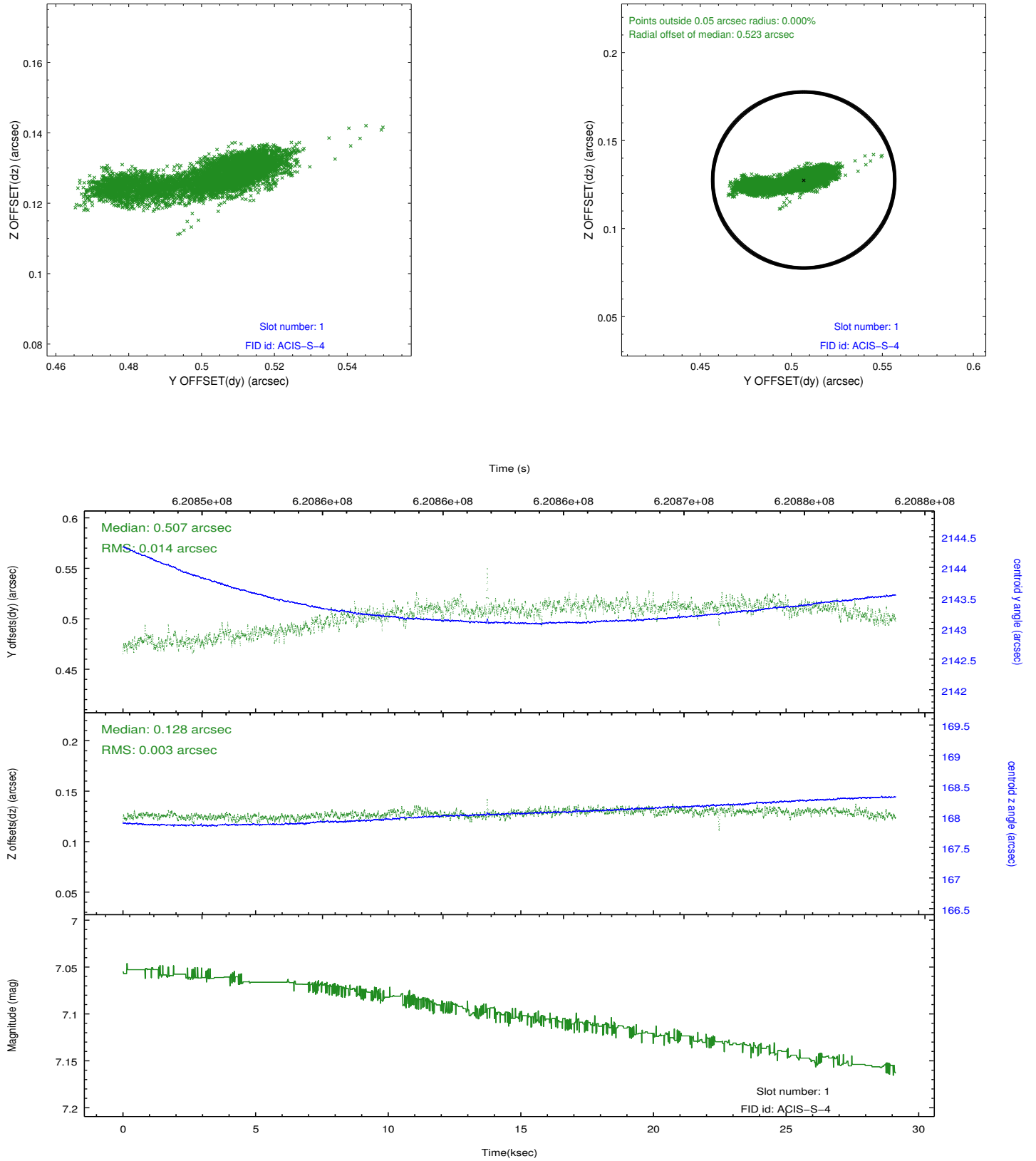


2.5 FID Slots

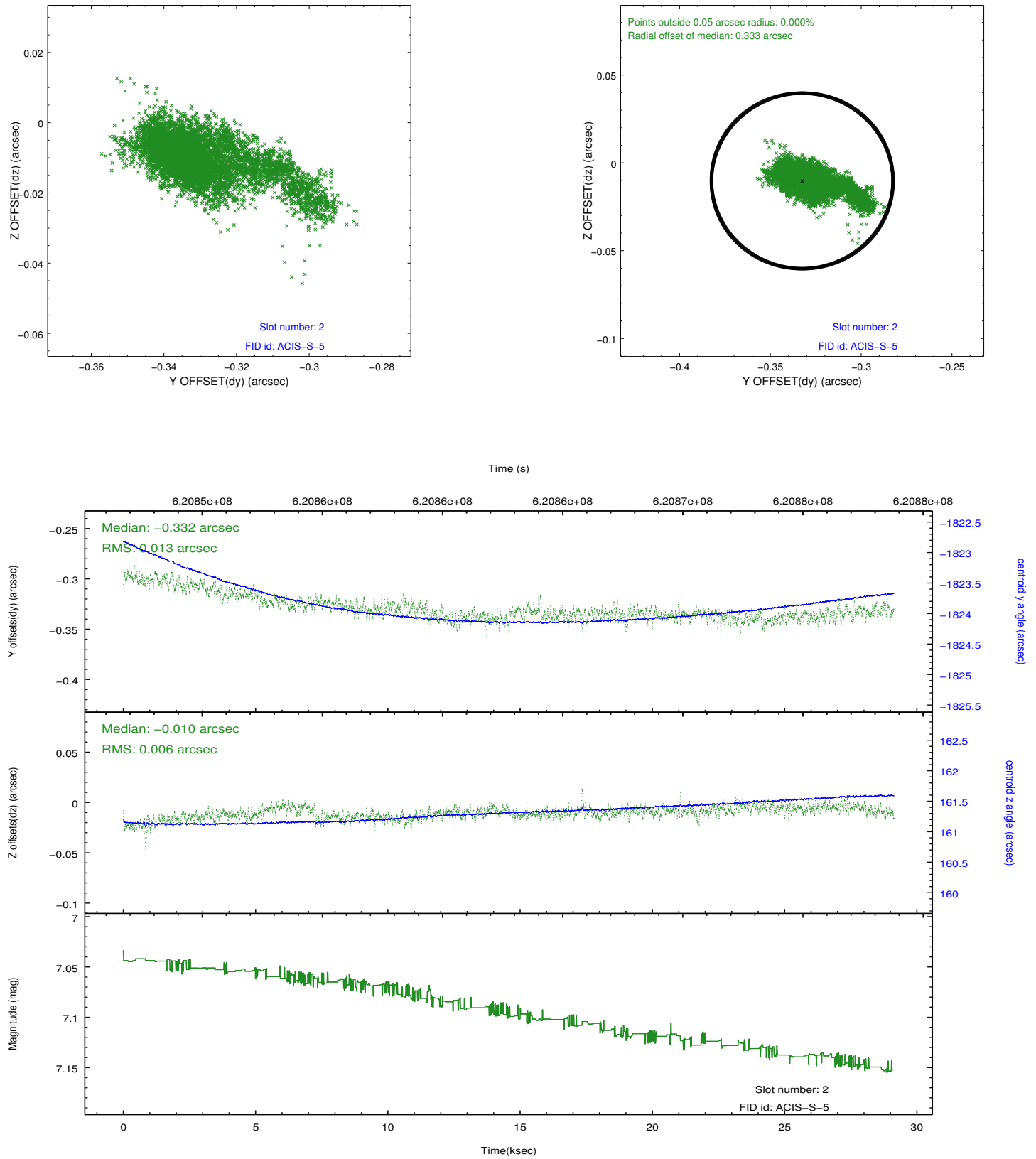
2.5.1 Slot 0



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)	2017.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.118163575292

A.2 Comments

Two optional chips were dropped.