

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13386 - L2 Version 2
Chandra X-Ray Center

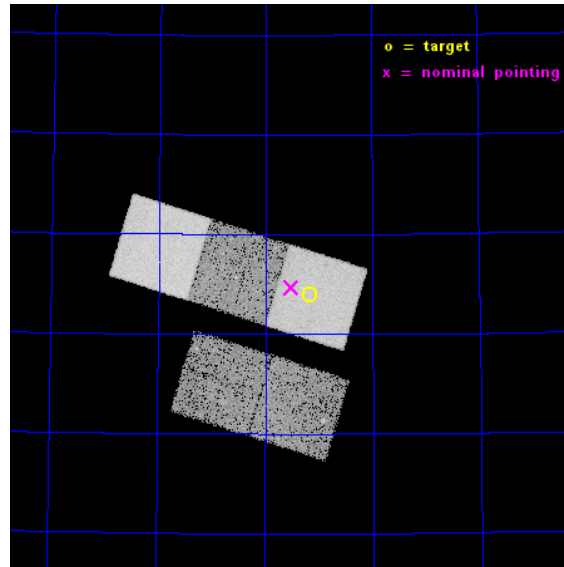
L2 Processing Date : Nov 28 2014

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1 Front

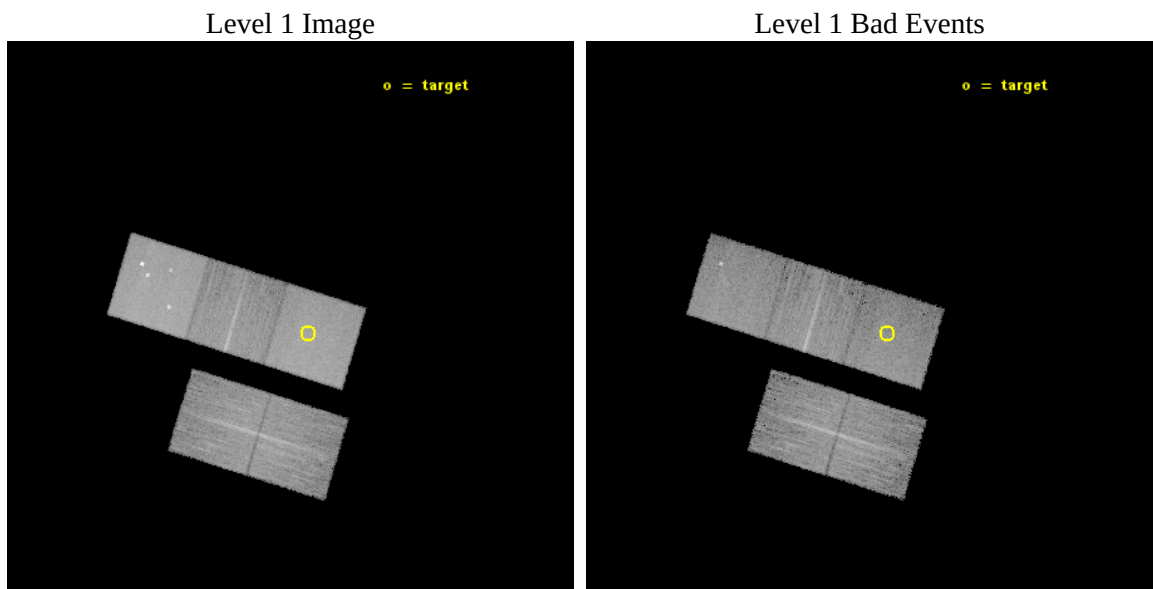
seq_num	801073	Sequence number
obs_id	13386	Observation id
title	Assembling a Large Sample of Fossil Groups	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1227+6803	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.790833	Observer's specified target RA [deg]
dec_targ	68.065722	Observer's specified target Dec [deg]
ra_nom	186.87823697463	Nominal RA [deg]
dec_nom	68.078391871819	Nominal Dec [deg]
roll_nom	17.130062421109	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16129.249953449	Sum of GTIs [s]
livetime	15918.509428626	Livetime [s]
ontime2	16129.085793436	Sum of GTIs [s]
ontime3	16129.126833439	Sum of GTIs [s]
ontime5	16129.208913445	Sum of GTIs [s]
ontime6	16122.885902762	Sum of GTIs [s]
ontime7	16129.249953449	Sum of GTIs [s]
l2events	152620	Number of level 2 events



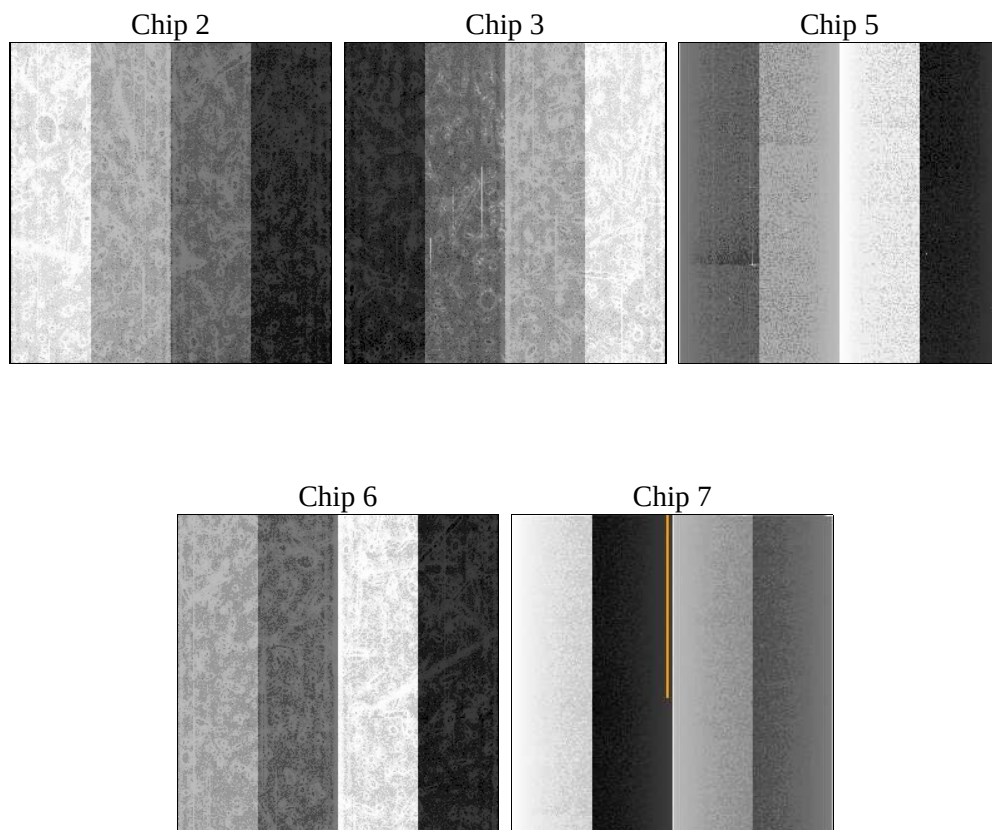
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	16063.445000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	16129.249953449	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	16129.085793436	Sum of GTIs [s]
date	2014-11-28T10:44:53	Date and time of file creation	ontime3	16129.126833439	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	16129.208913445	Sum of GTIs [s]
			ontime6	16122.885902762	Sum of GTIs [s]
			ontime7	16129.249953449	Sum of GTIs [s]
			l1events	514251	Number of level 1 events

2.1.4 Events

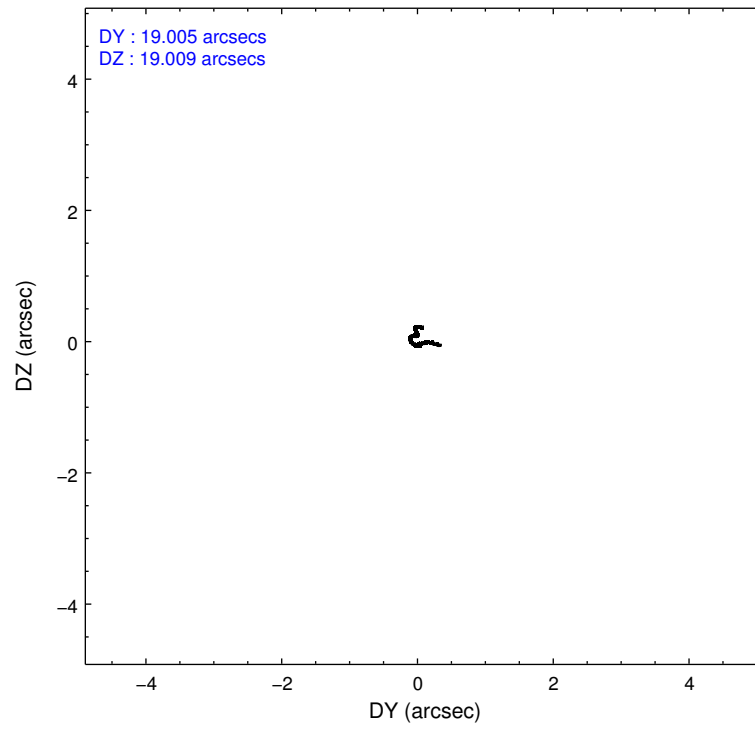
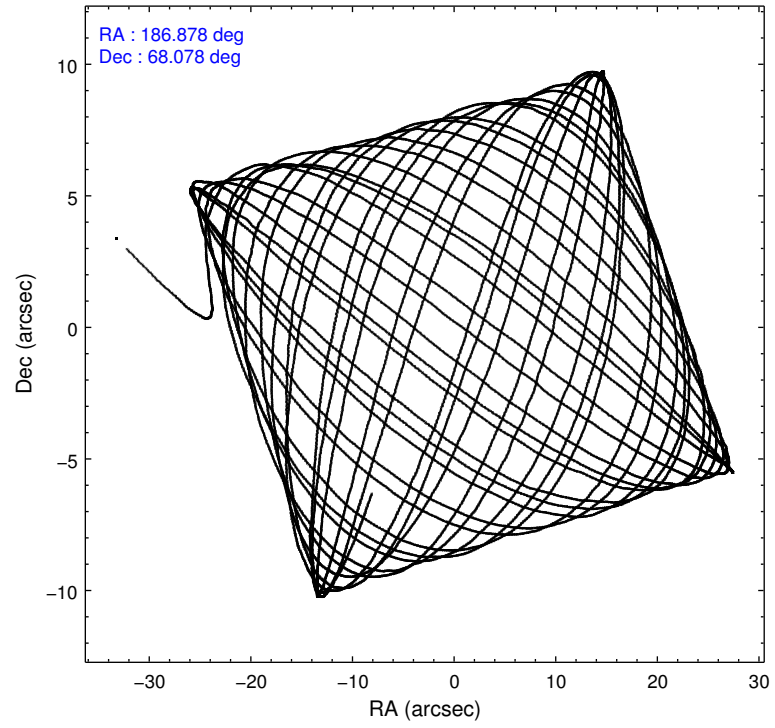
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	82881	80876	145965	86915	117614
rejected events	71308	69560	70955	73854	62377
rejected %	86%	86%	48%	84%	53%

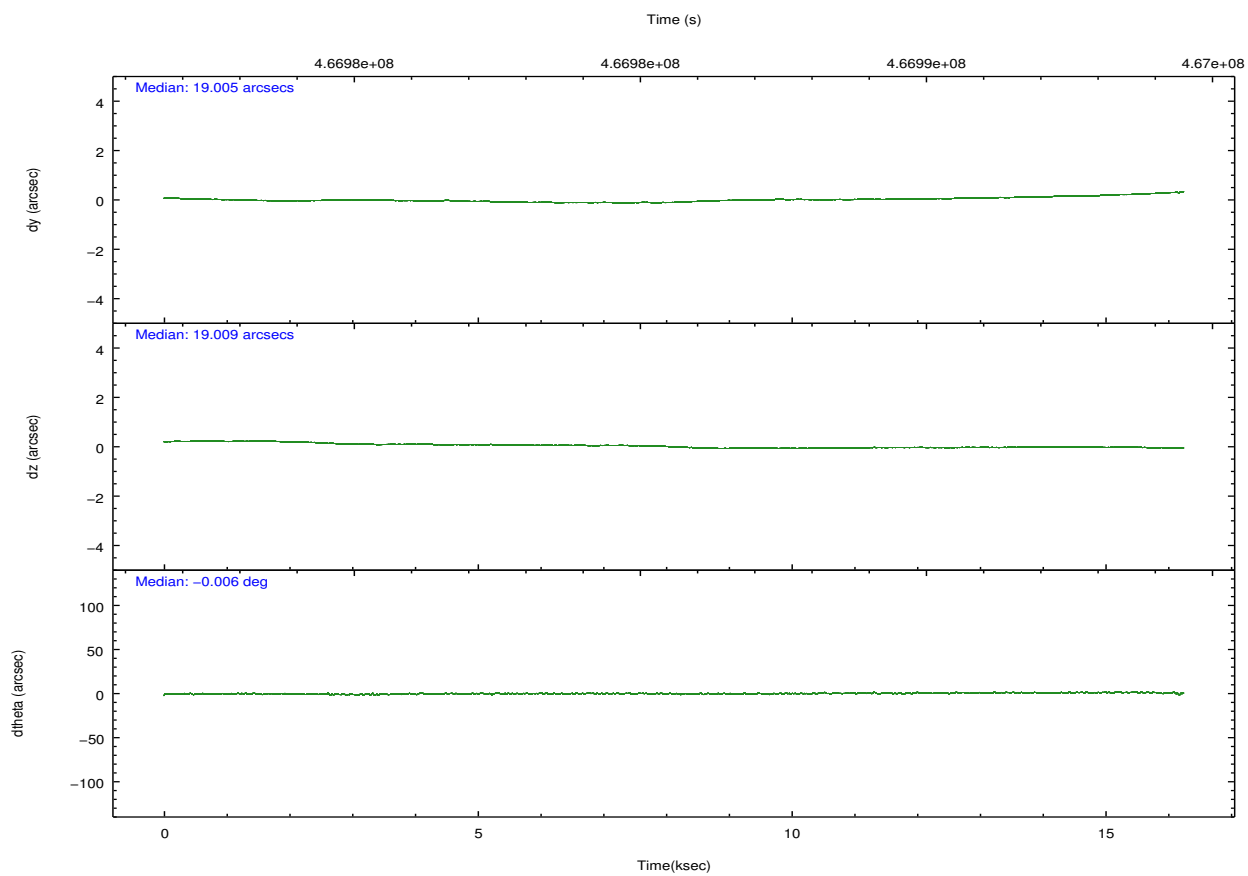
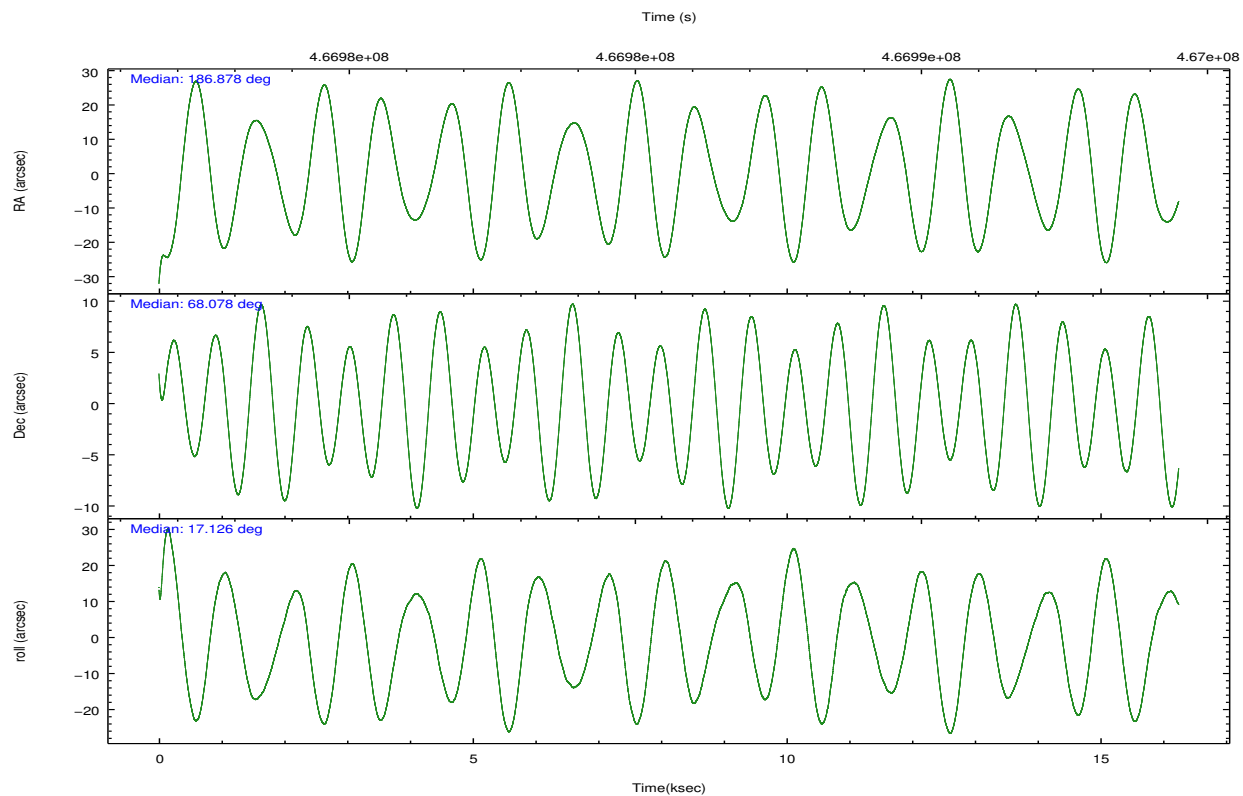
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4948	4691	9676	5559	5046
	5%	5%	6%	6%	4%
grade 1 events	44	51	499	35	133
	0%	0%	0%	0%	0%
grade 2 events	2449	2284	22910	2743	11185
	2%	2%	15%	3%	9%
grade 3 events	1083	1100	2664	1123	4826
	1%	1%	1%	1%	4%
grade 4 events	1068	1068	2535	1149	4635
	1%	1%	1%	1%	3%
grade 5 events	3669	4287	10457	4416	11740
	4%	5%	7%	5%	9%
grade 6 events	2029	2176	37254	2490	29564
	2%	2%	25%	2%	25%
grade 7 events	67591	65219	59970	69400	50485
	81%	80%	41%	79%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	186.829286	186.8782369746316	CCD I2 on	O1	Y
[deg] Pointing Dec	68.058101	68.07839187181888	CCD I3 on	O2	Y
[deg] Pointing Roll	17.018862	17.13006242110941	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	N	N
[s] Observation start time (MET)	466977645.184000	466976234.14655	CCD S5 on	N	N
Observation start date	2012-10-18T19:59:38	2012-10-18T19:37:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	466993708.184000	466993937.435	On-chip summing requested	N	N
Observation end date	2012-10-19T00:27:21	2012-10-19T00:32:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



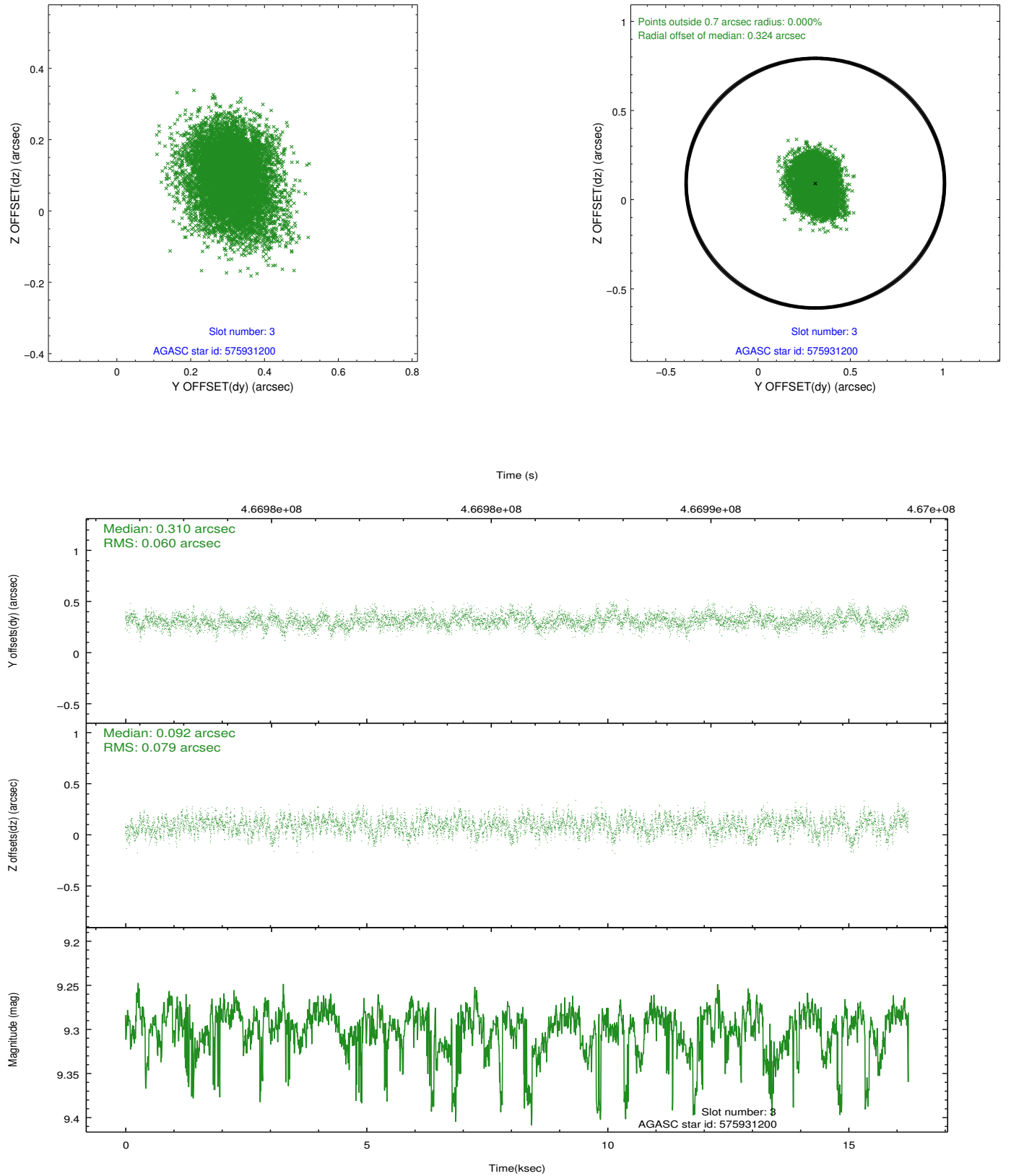


Slot Statistics

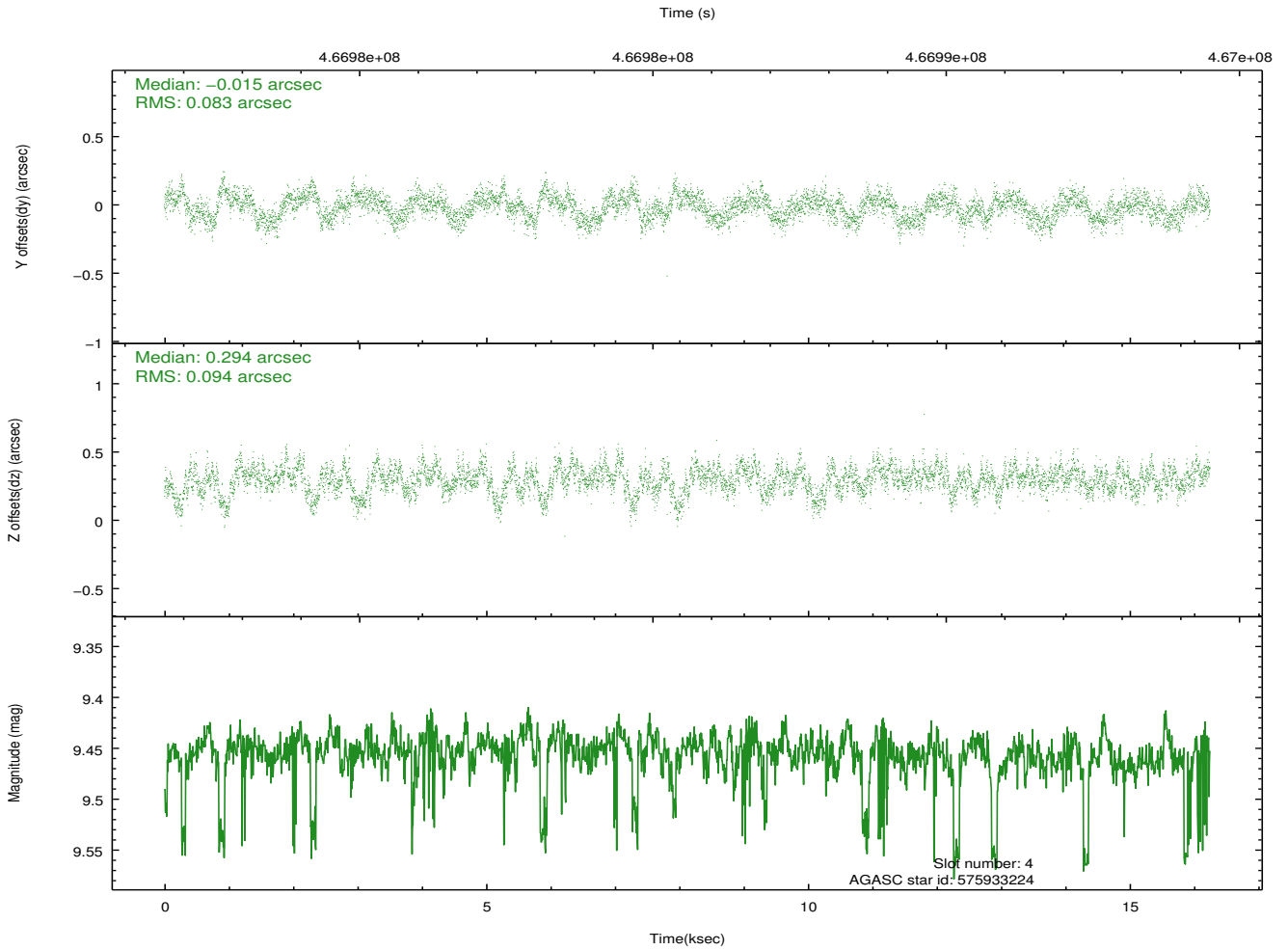
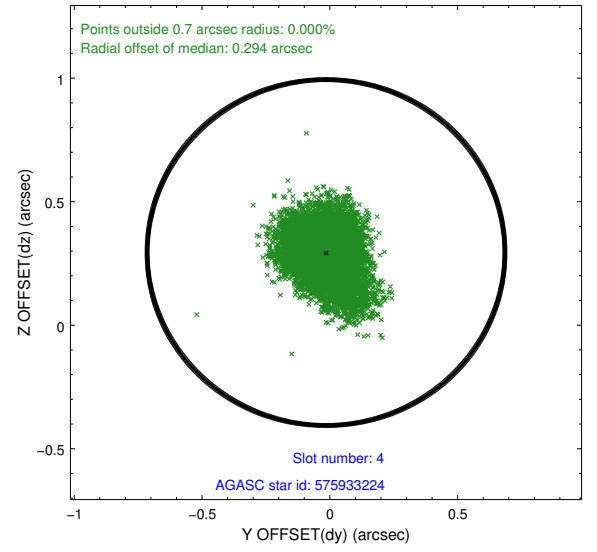
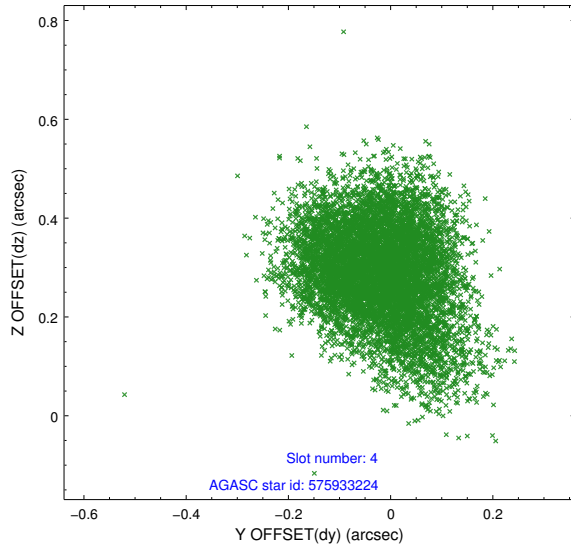
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.01	3963	0.073	-0.007	0.007	0.012	0.000000	0.000000	924.03	-1736.17
1	FID		ACIS-S-5	7.06	3962	-0.178	0.043	0.006	0.011	0.000000	0.000000	-1825.09	161.14
2	FID		ACIS-S-6	7.16	3963	0.084	-0.024	0.007	0.012	0.000000	0.000000	389.28	805.35
3	GUIDE	used	575931200	9.30	7883	0.310	0.092	0.106	0.172	185.861210	68.070526	-1228.02	433.60
4	GUIDE	used	575933224	9.45	7884	-0.015	0.294	0.134	0.218	187.546225	67.926323	790.26	-731.87
5	GUIDE	used	575939432	8.78	7925	0.219	-0.106	0.094	0.152	185.703784	68.524776	-922.50	2053.53
6	GUIDE	used	575941080	7.60	7924	-0.400	-0.137	0.070	0.112	187.405696	68.635467	1331.79	1769.97
7	GUIDE	used	575943416	7.51	7925	-0.112	-0.138	0.084	0.134	187.978358	68.514730	1934.72	1141.65

2.4 Star Slots

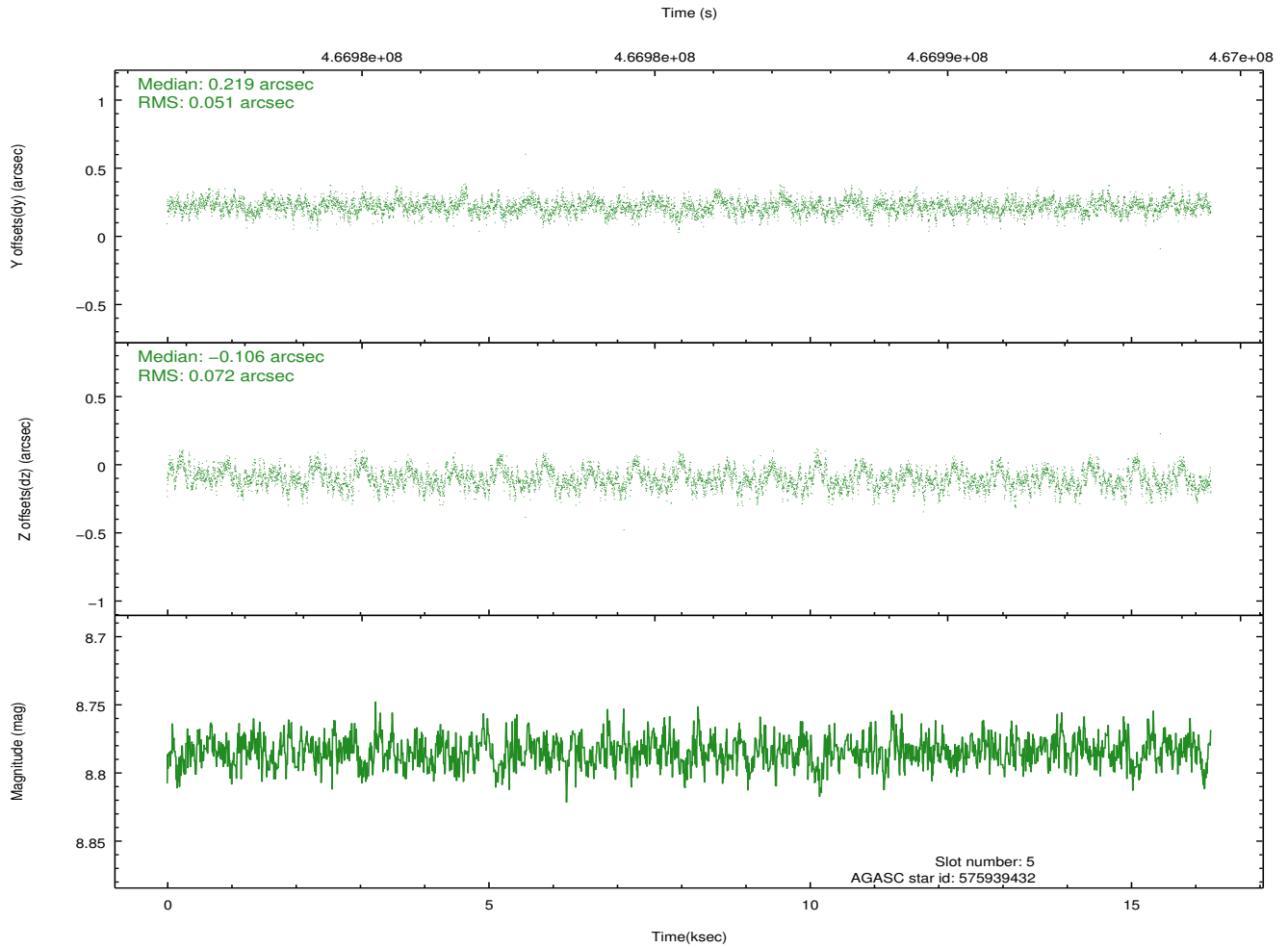
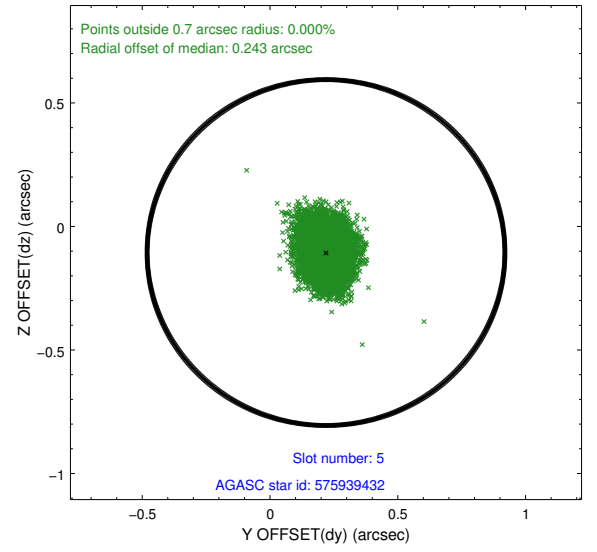
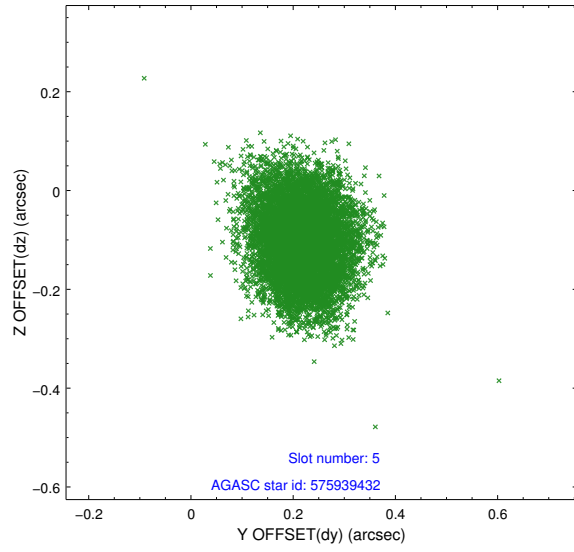
2.4.1 Slot 3



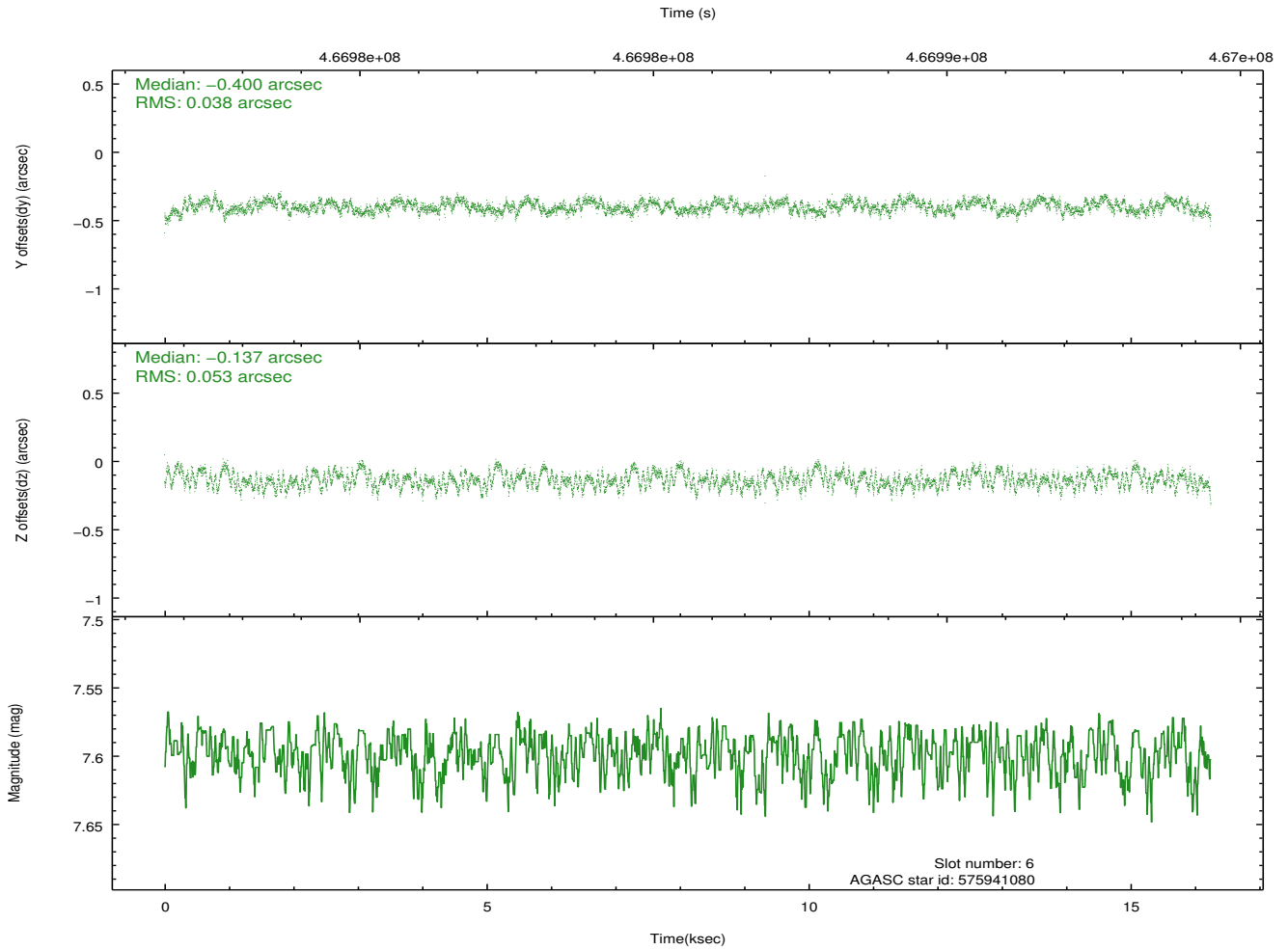
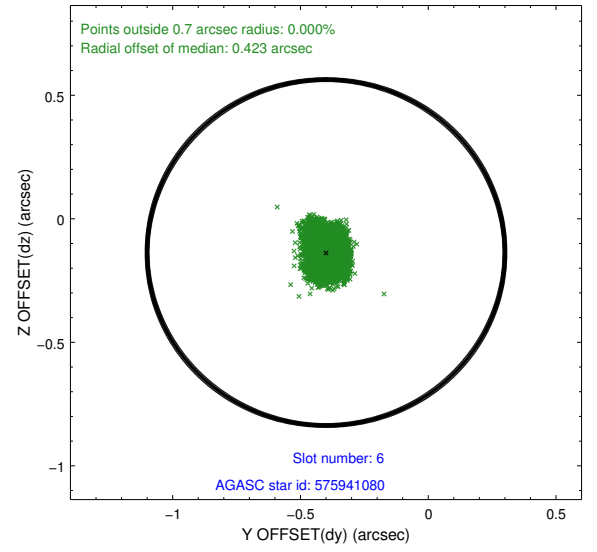
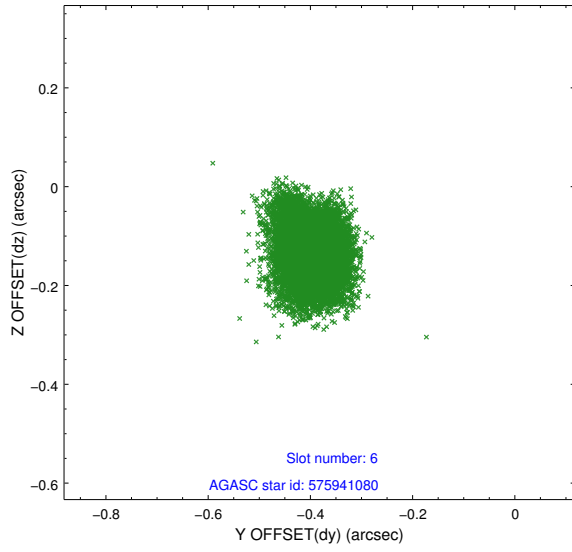
2.4.2 Slot 4



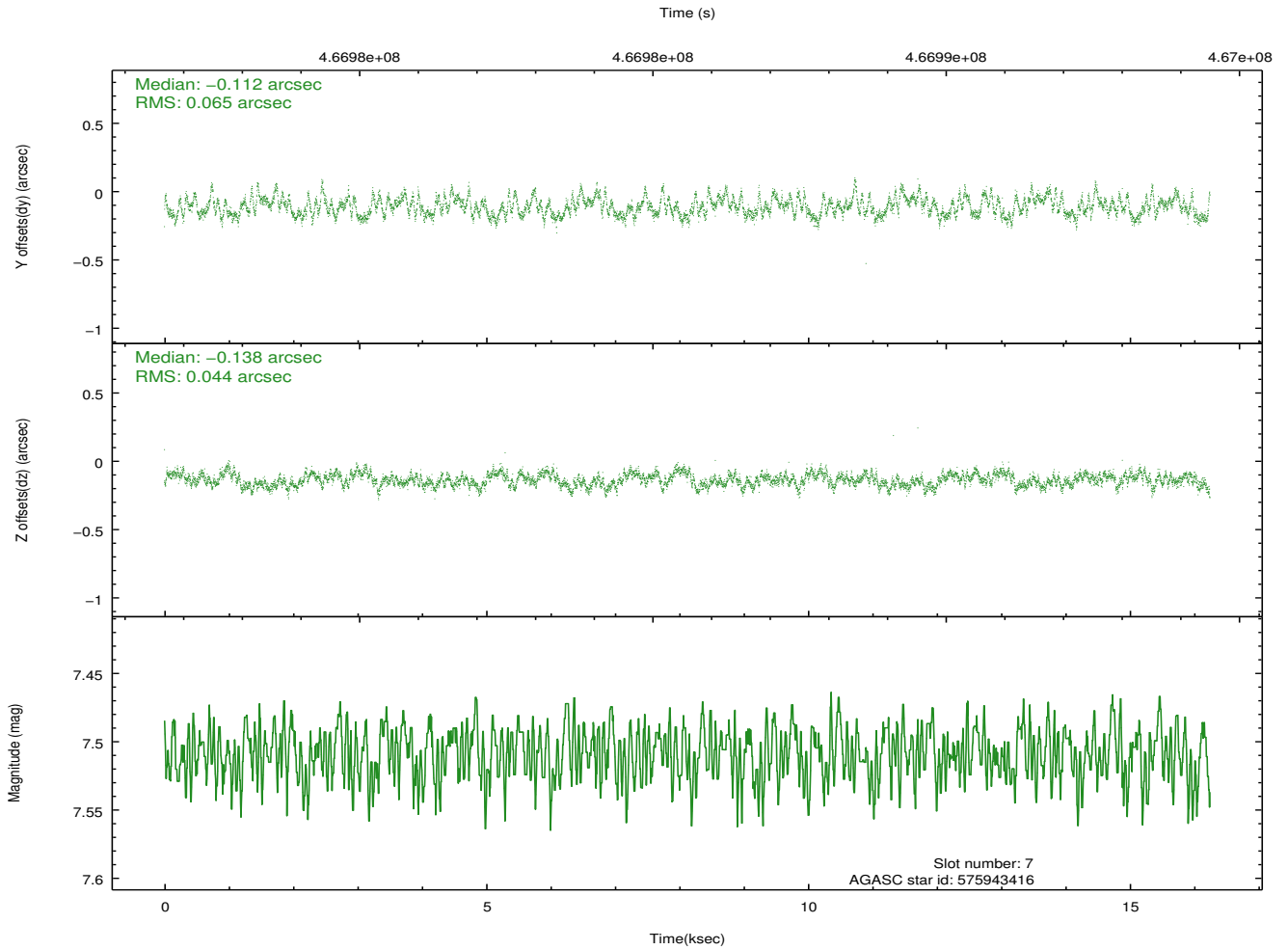
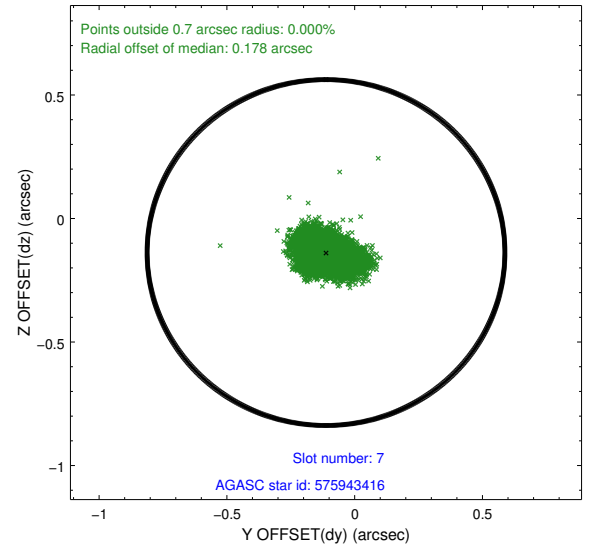
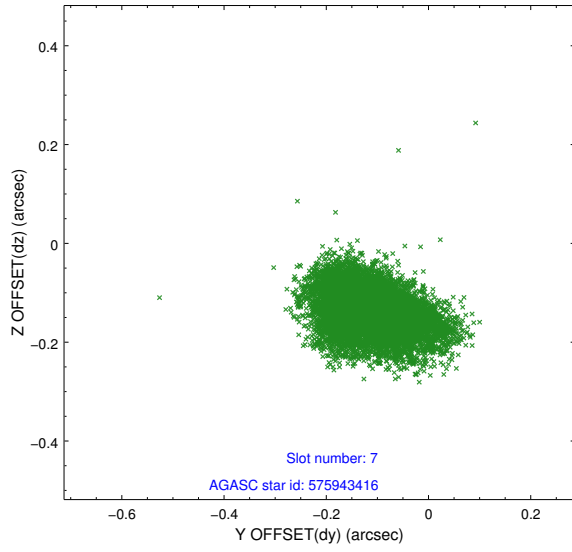
2.4.3 Slot 5



2.4.4 Slot 6

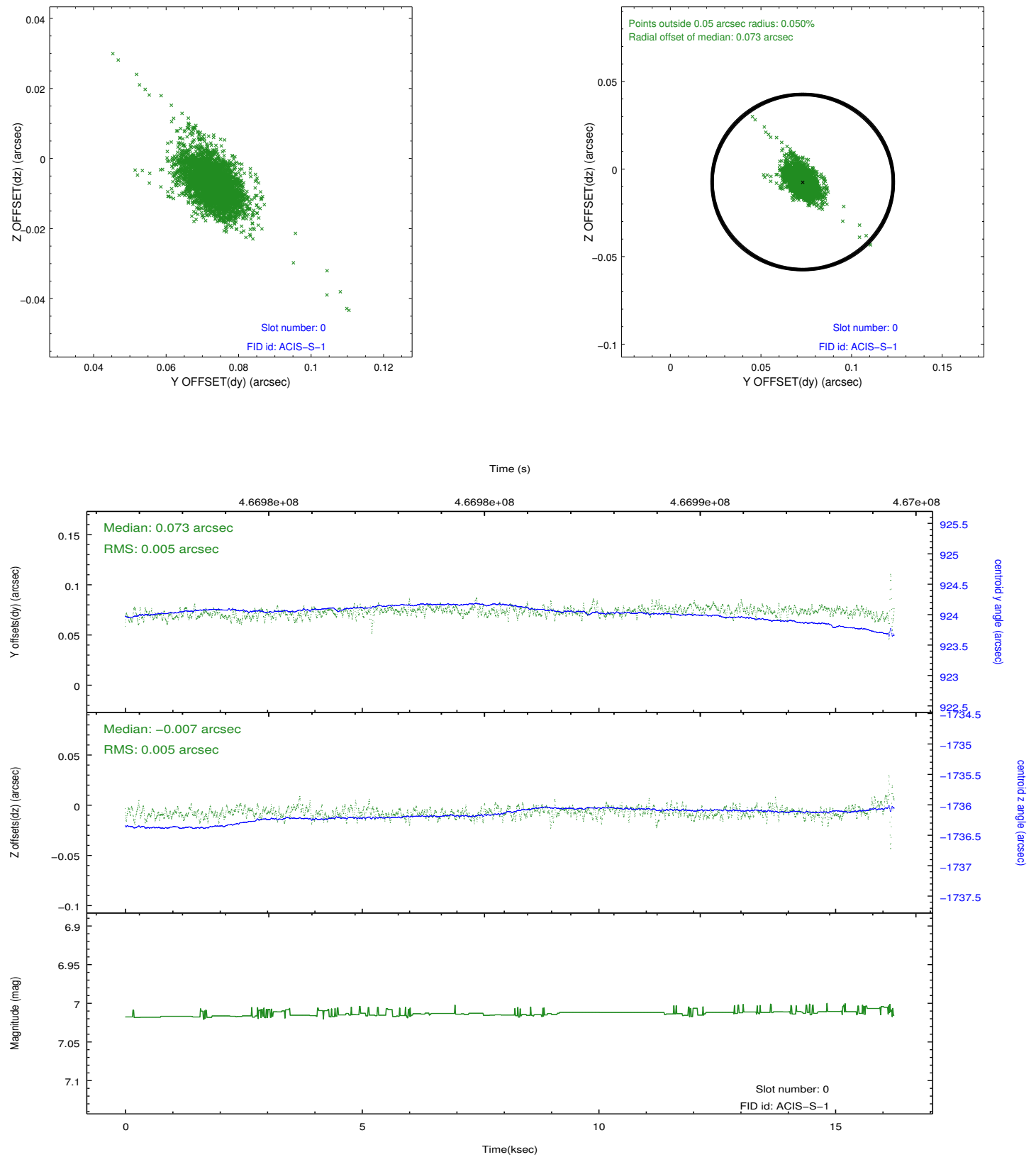


2.4.5 Slot 7

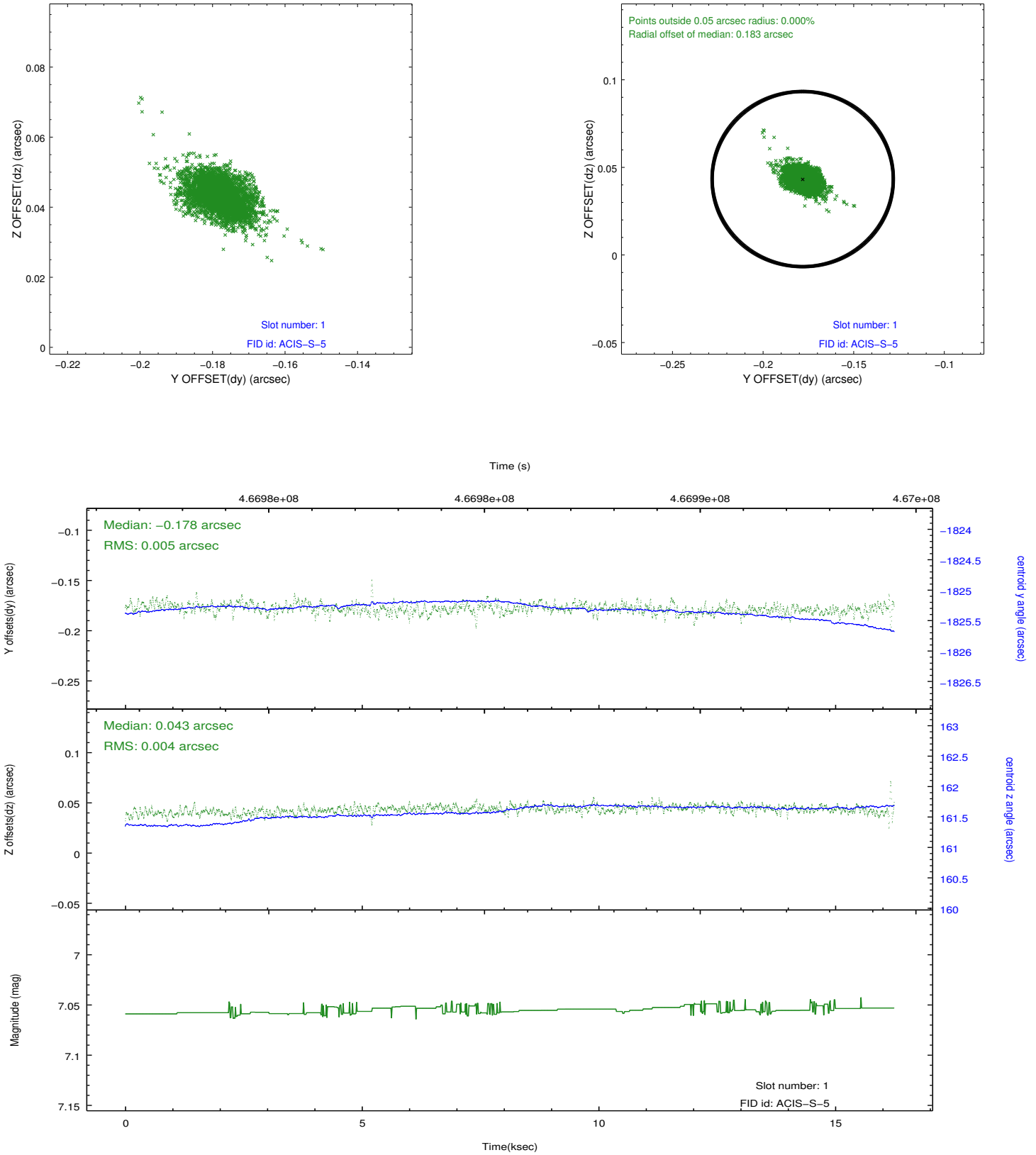


2.5 FID Slots

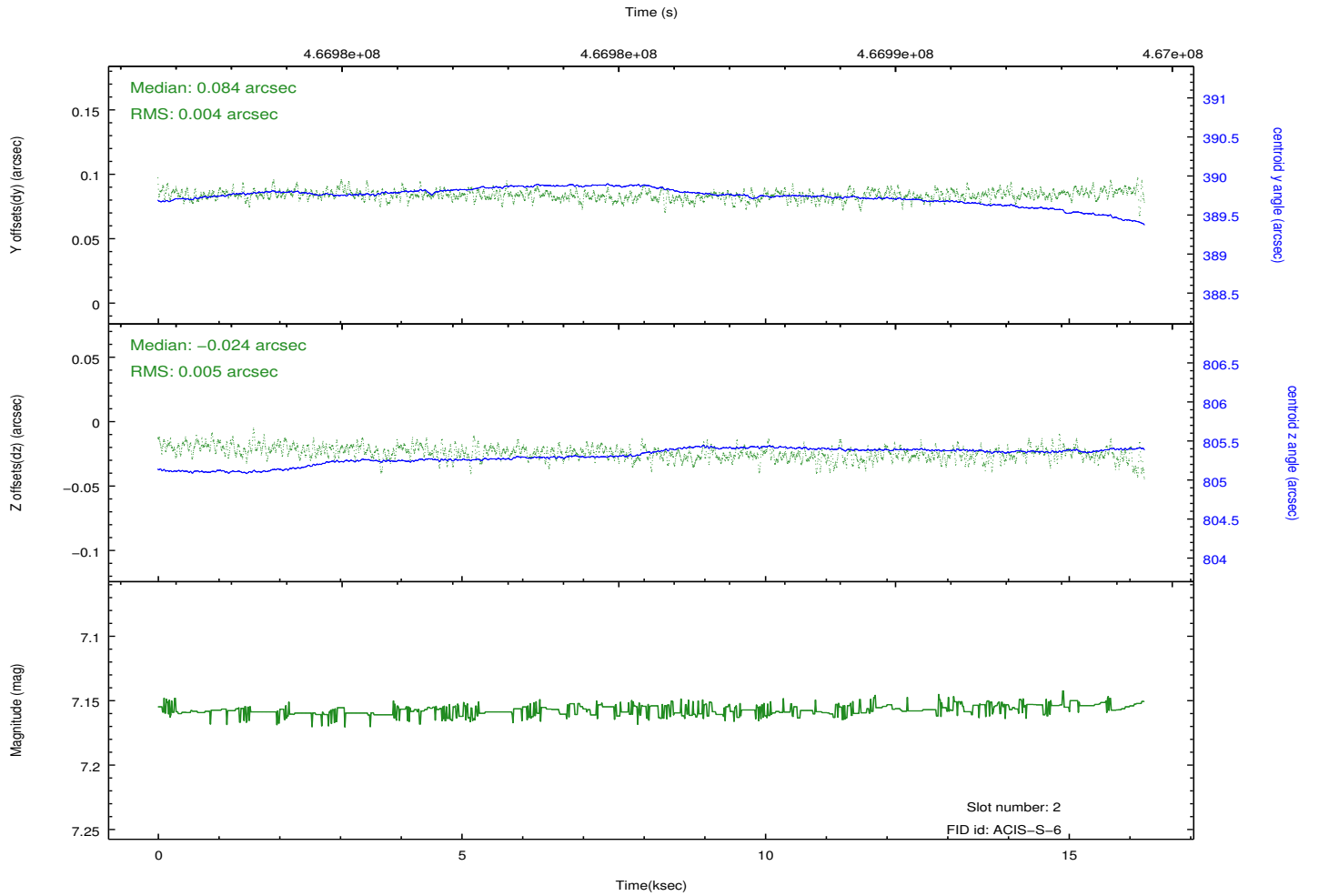
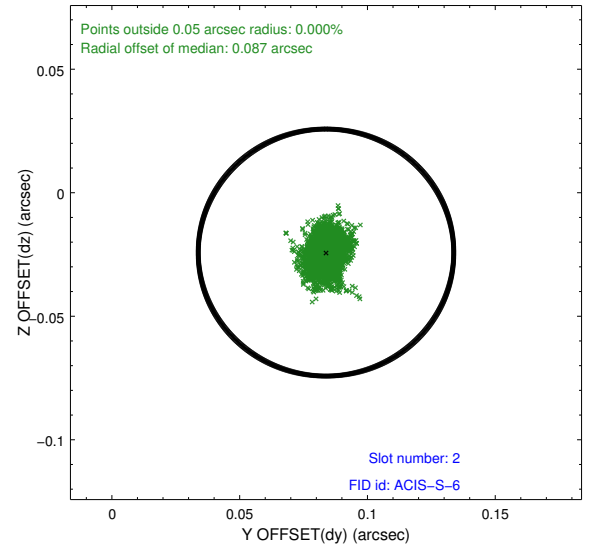
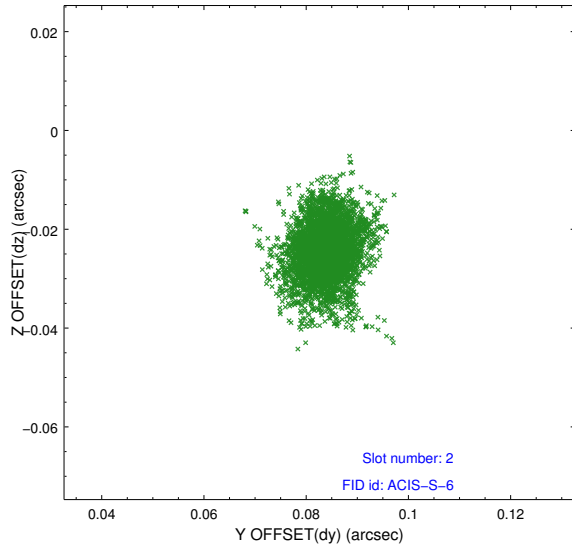
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.129249953449

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.