

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 494 - L2 Version 4

Chandra X-Ray Center

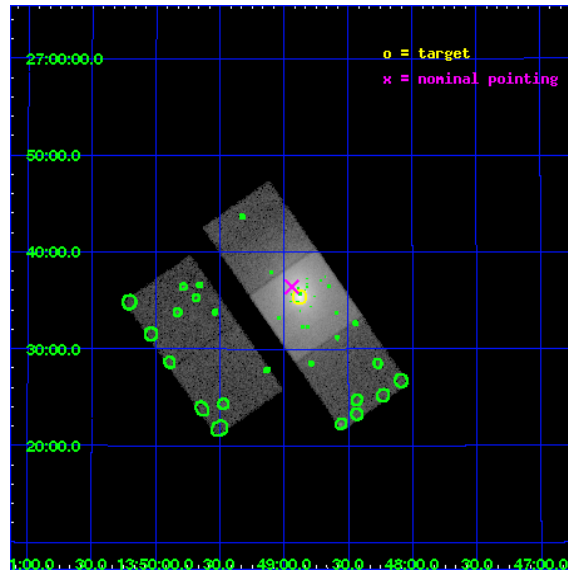
L2 Processing Date : Nov 26 2009

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1 Front

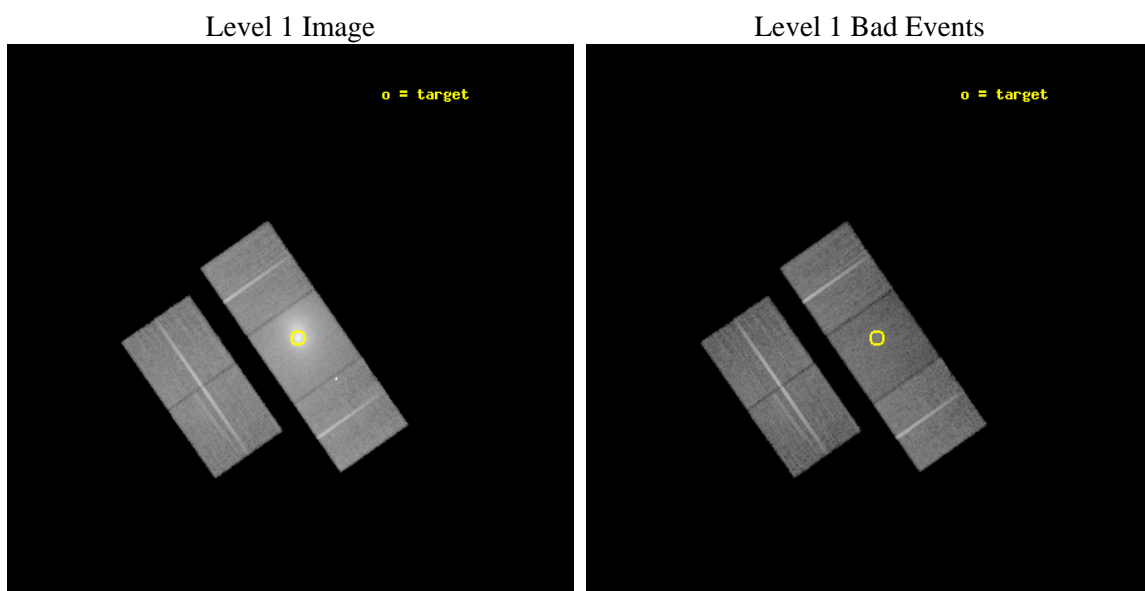
seq_num	800002	Sequence number
obs_id	494	Observation id
title	THE COOLING FLOW IN A1795	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA
dec_targ	26.590833	Observer's specified target Dec
ra_nom	207.23492835464	Nominal RA
dec_nom	26.607131636792	Nominal Dec
roll_nom	55.134079413676	Nominal Roll
revision	4	Processing version of data
ontime	19769.600018412	Sum of GTIs [s]
livetime	19519.265439155	Livetime [s]
ontime2	19769.600018412	Sum of GTIs [s]
ontime3	19769.600018412	Sum of GTIs [s]
ontime6	19769.600018412	Sum of GTIs [s]
ontime7	19769.600018412	Sum of GTIs [s]
ontime8	19769.600018412	Sum of GTIs [s]
l2events	471512	Number of level 2 events



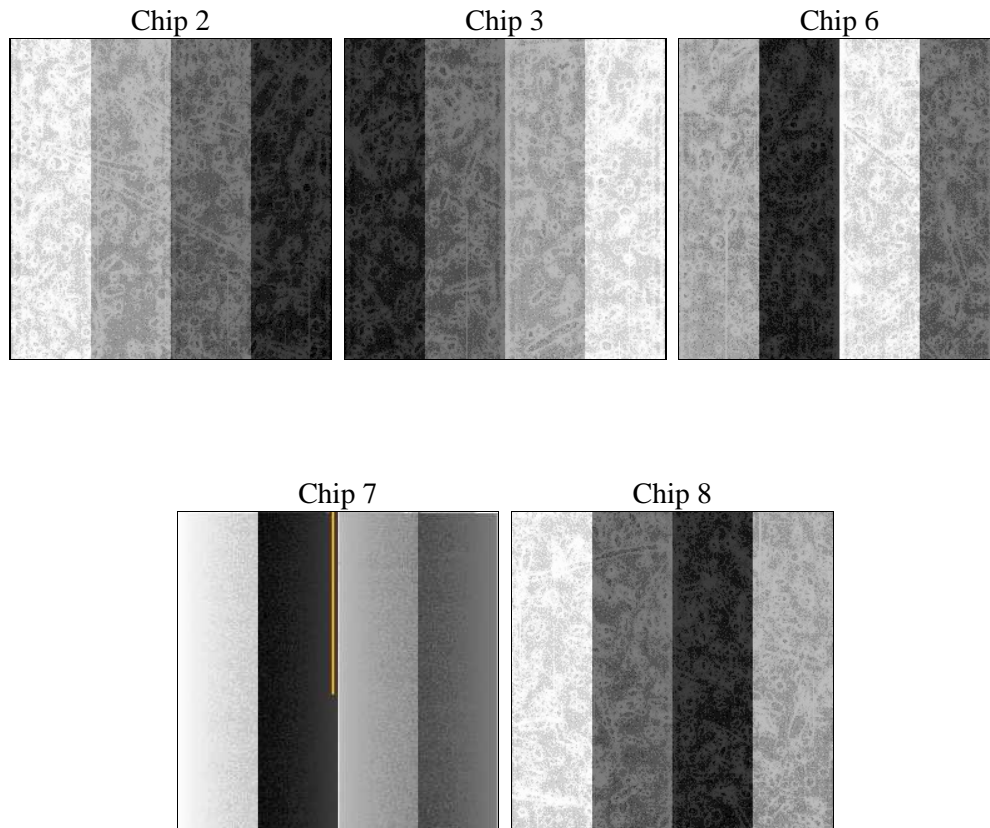
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	19769.600018412	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	19769.600018412	Sum of GTIs [s]
date	2009-11-26T07:51:34	Date and time of file creation	ontime3	19769.600018412	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	19769.600018412	Sum of GTIs [s]
			ontime7	19769.600018412	Sum of GTIs [s]
			ontime8	19769.600018412	Sum of GTIs [s]
			l1events	1244936	Number of level 1 events

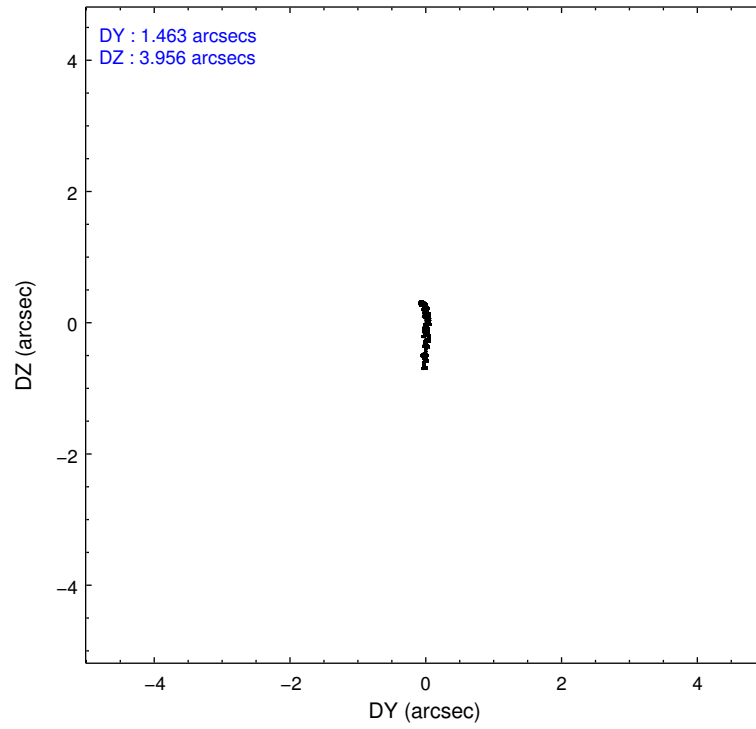
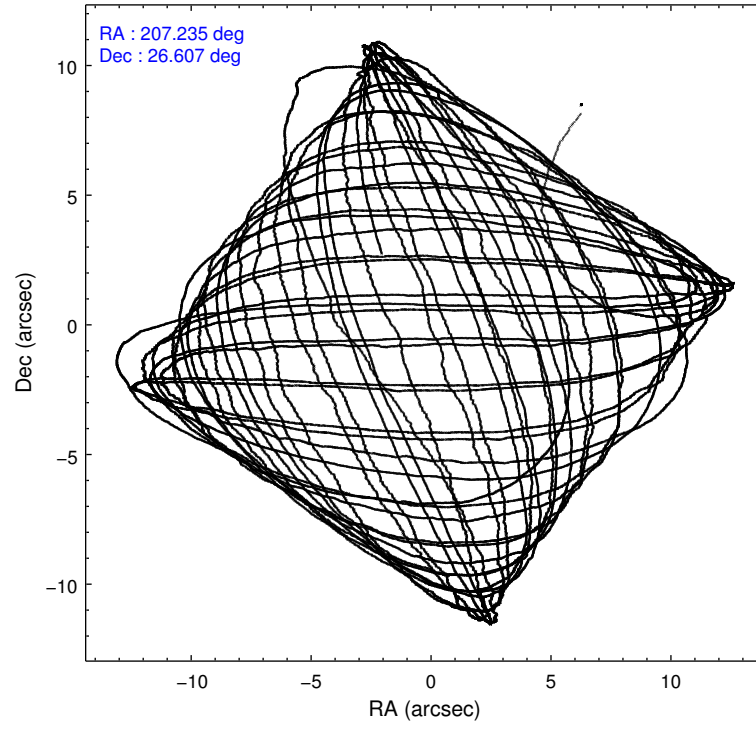
2.1.4 Events

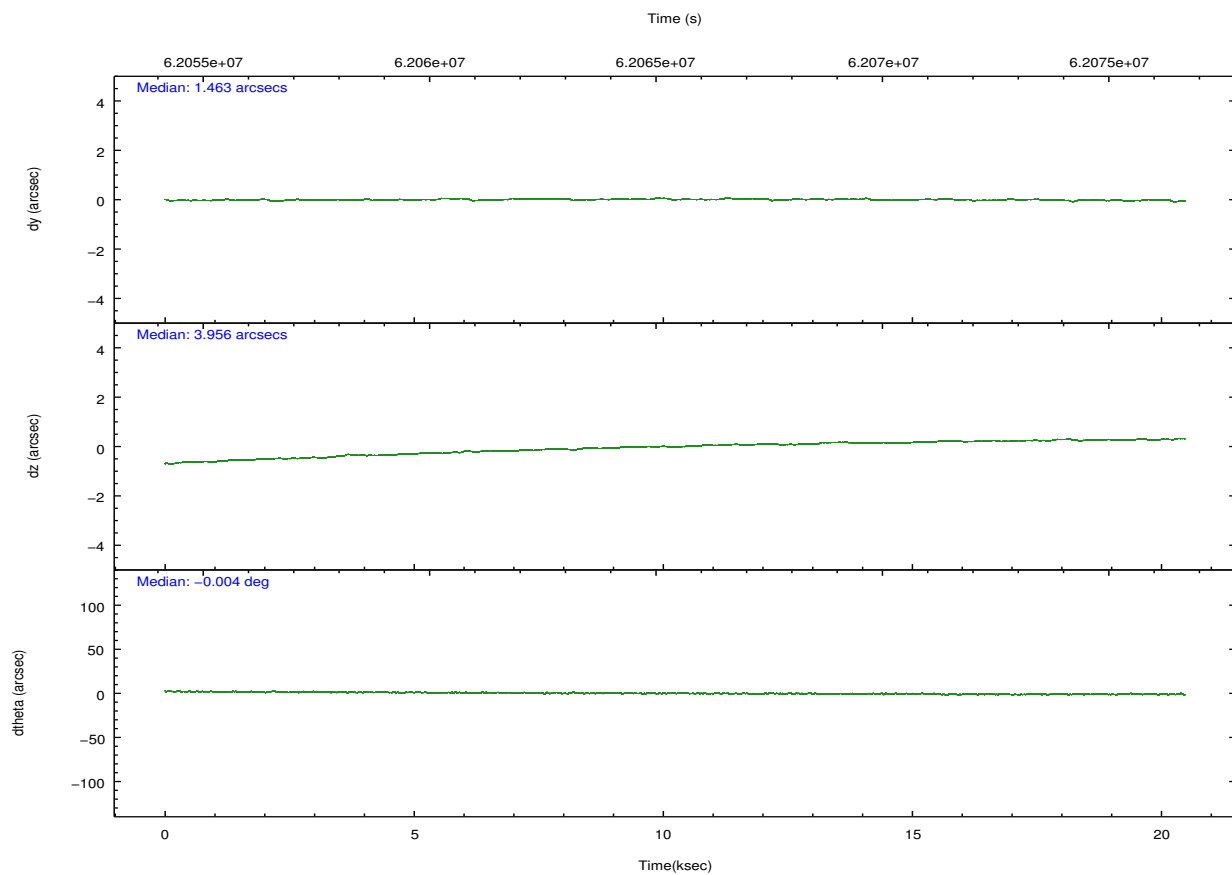
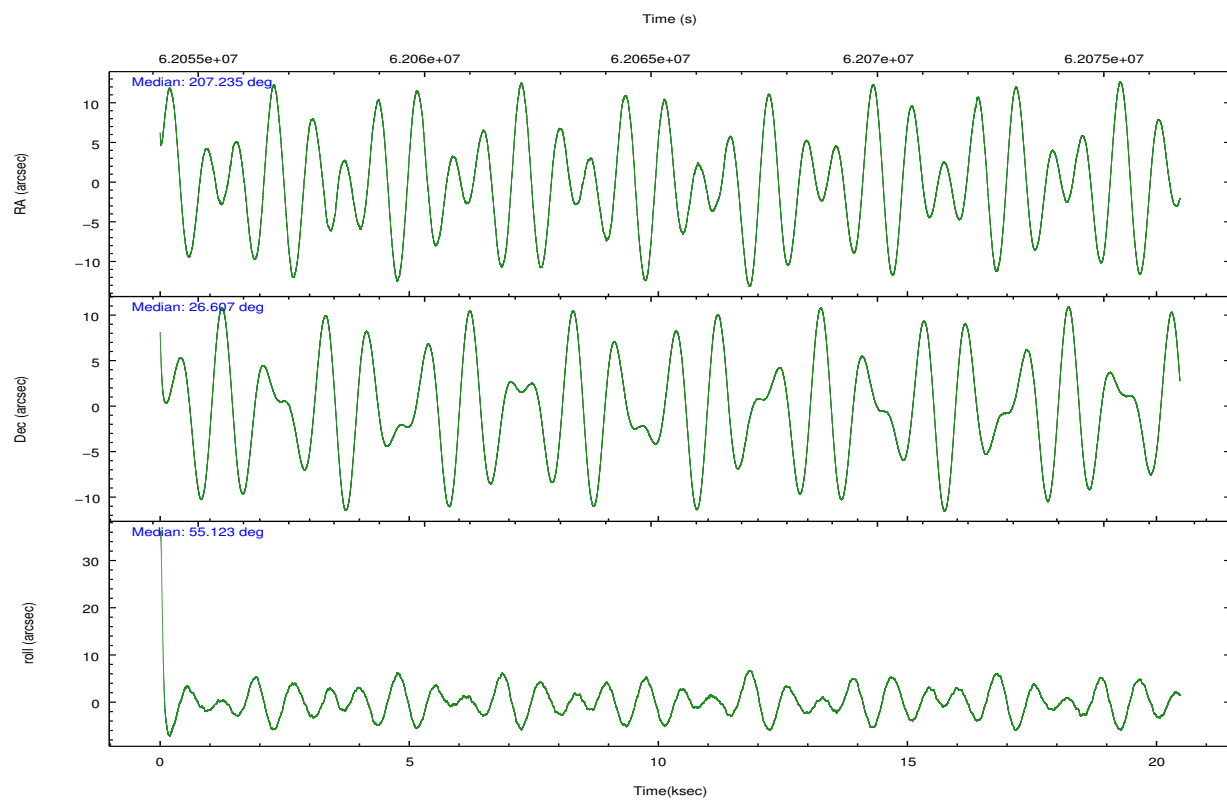
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	170812	168888	191184	501229	212823	grade 0 events	4277	4291	15214	105871	15523
rejected events	154365	151788	157009	115788	169308		2%	2%	7%	21%	7%
rejected %	90%	89%	82%	23%	79%	grade 1 events	37	31	62	217	109
							0%	0%	0%	0%	0%
						grade 2 events	6313	6837	10961	97042	12212
							3%	4%	5%	19%	5%
						grade 3 events	989	1022	1450	40599	2914
							0%	0%	0%	8%	1%
						grade 4 events	1018	977	1375	37993	2698
							0%	0%	0%	7%	1%
						grade 5 events	2896	3117	3727	13092	4625
							1%	1%	1%	2%	2%
						grade 6 events	3854	3981	5185	104086	10193
							2%	2%	2%	20%	4%
						grade 7 events	151428	148632	153210	102329	164549
							88%	88%	80%	20%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	207.232226	207.2349283546407	Subarray requested	NONE	NONE
Pointing Dec	26.579658	26.60713163679204	Alternating exposures requested	N	N
Pointing Roll	54.978639	55.13407941367626	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	62055653.184000	62053257.548475			
Observation start date	1999-12-20T05:39:49	1999-12-20T05:00:57			
Observation end time	62075653.184000	62076368.224312			
Observation end date	1999-12-20T11:13:09	1999-12-20T11:26:08			
Read mode	TIMED	TIMED			

2.3 Aspect



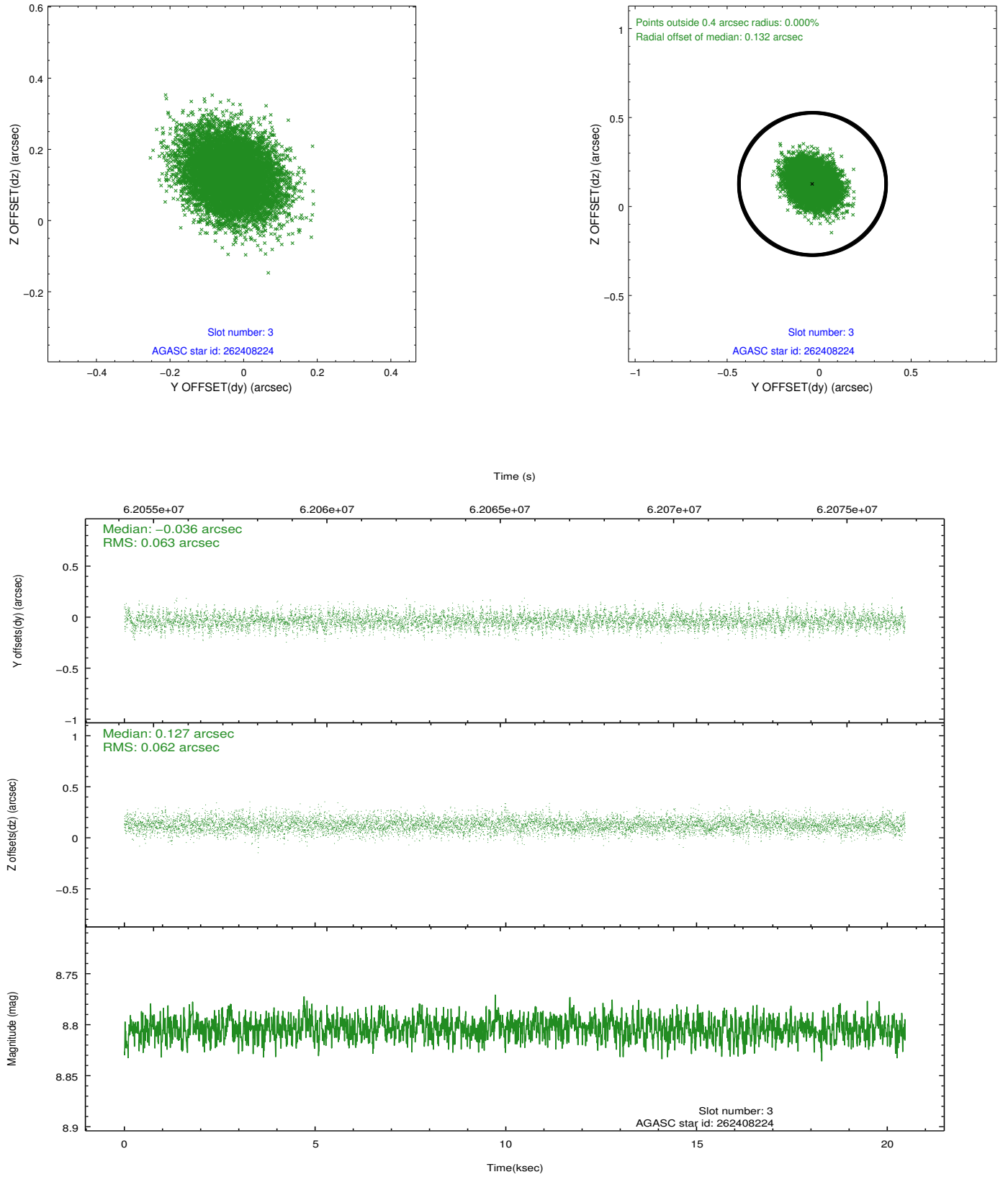


Slot Statistics

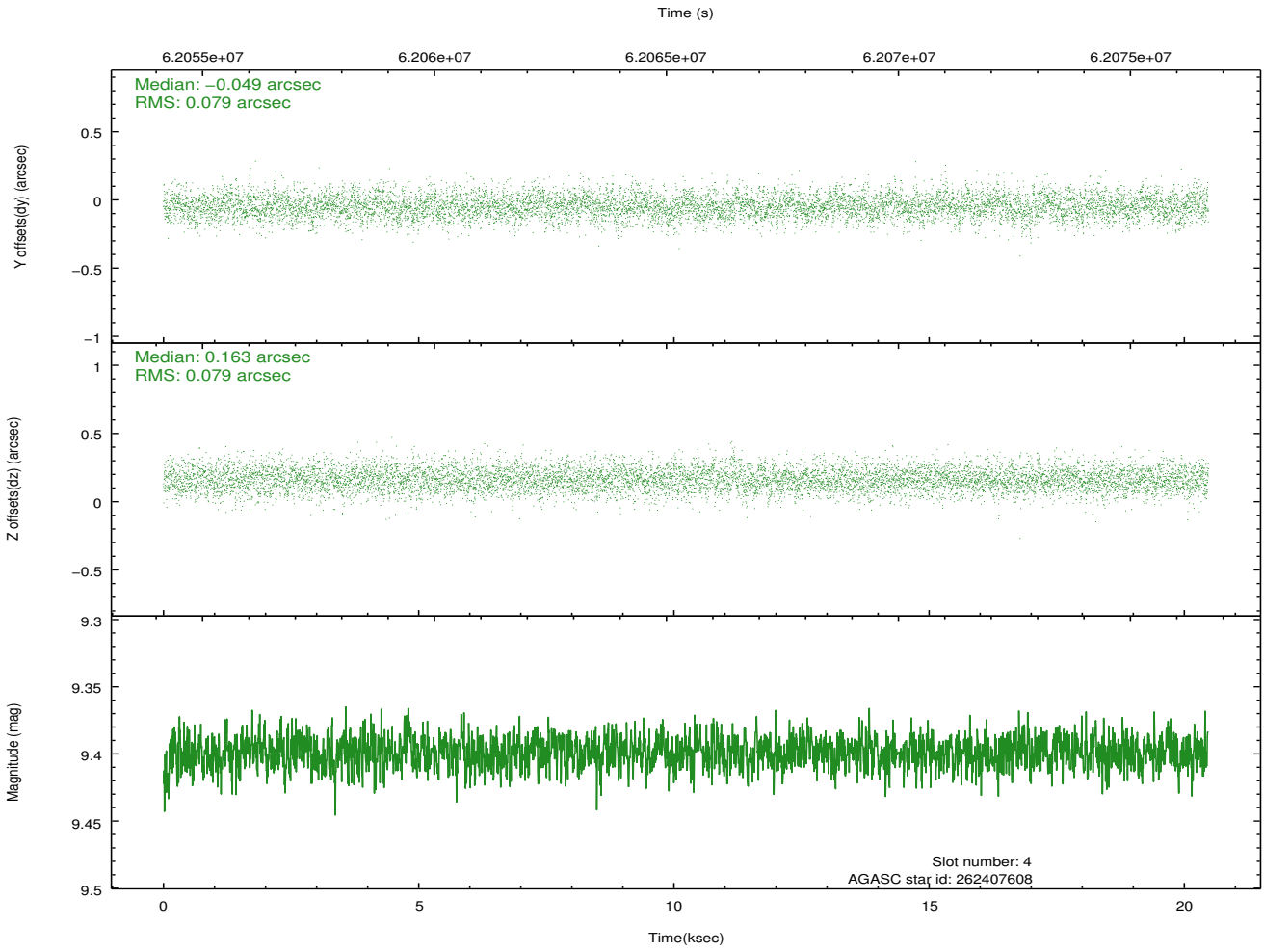
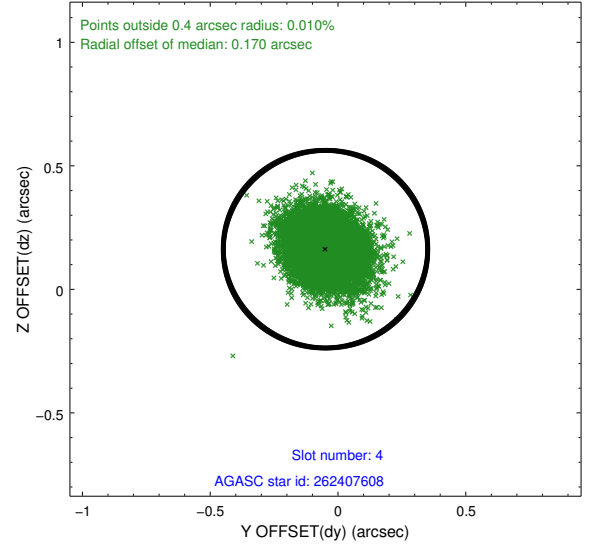
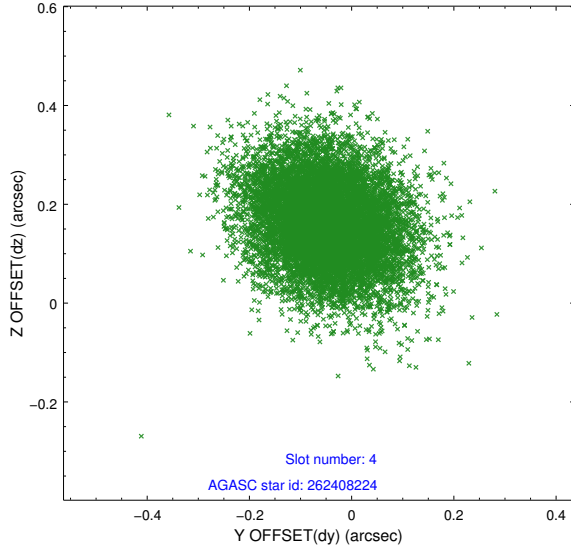
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.21	9984	0.036	-0.050	0.013	0.022	0.000000	0.000000	941.95	-1720.69
1	FID	ACIS-S-5	7.26	9985	-0.033	0.033	0.008	0.014	0.000000	0.000000	-1807.04	177.04
2	FID	ACIS-S-6	7.37	9986	-0.025	0.031	0.008	0.013	0.000000	0.000000	407.52	820.93
3	GUIDE	262408224	8.80	9980	-0.036	0.127	0.093	0.155	207.599344	26.288334	-176.96	-1570.90
4	GUIDE	262407608	9.40	9976	-0.049	0.163	0.118	0.194	207.378401	26.435507	-154.03	-683.27
5	GUIDE	262408096	9.35	9983	0.045	-0.031	0.118	0.193	207.011678	26.515421	-596.40	449.55
6	GUIDE	262408936	9.67	9978	-0.035	-0.049	0.140	0.229	207.154731	26.726554	290.21	507.94
7	GUIDE	262407760	9.96	9976	0.070	-0.210	0.173	0.278	206.566773	26.577263	-1232.03	1752.74

2.4 Star Slots

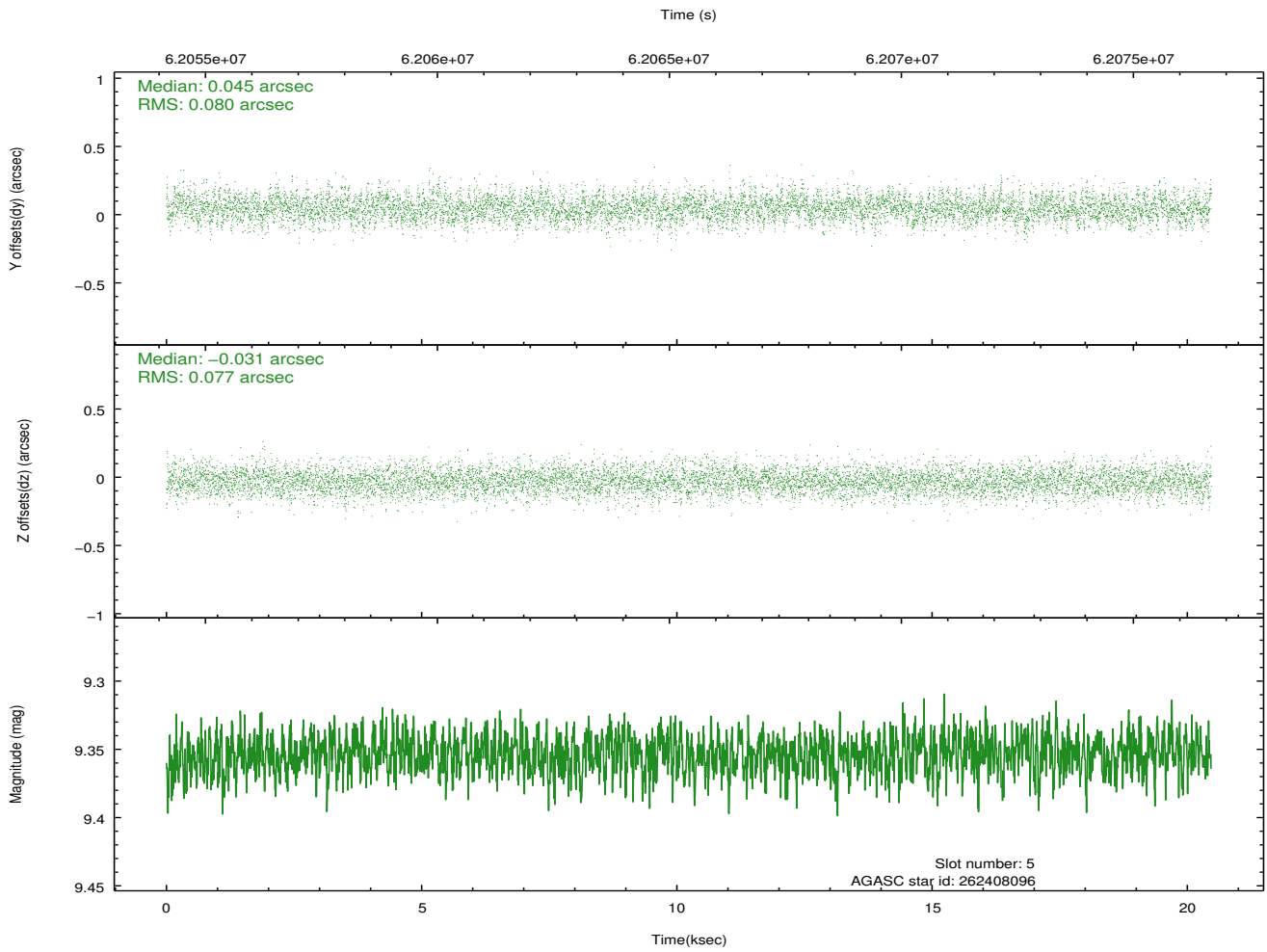
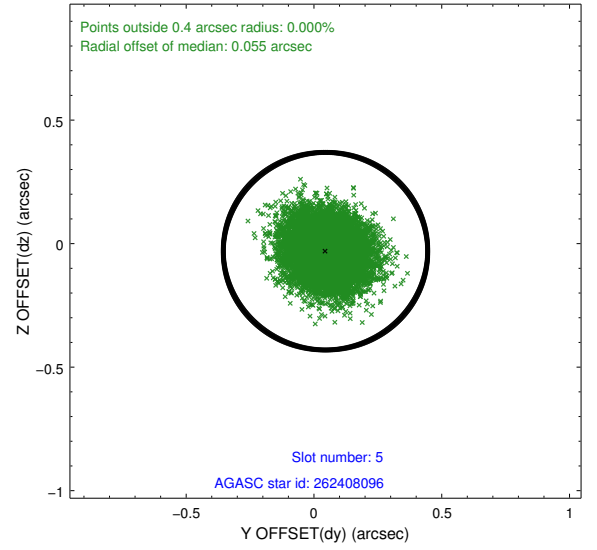
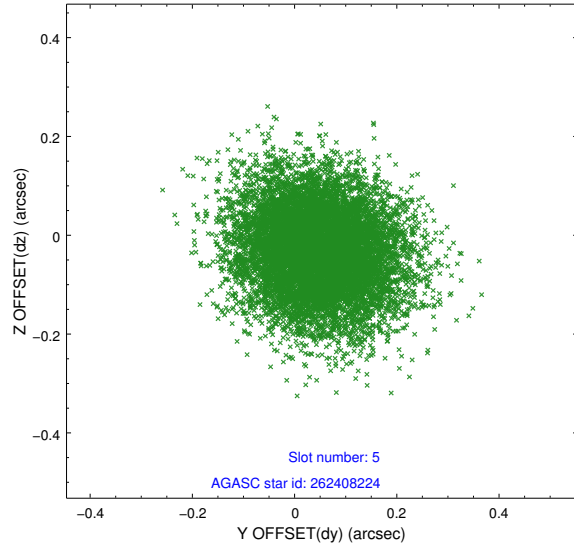
2.4.1 Slot 3



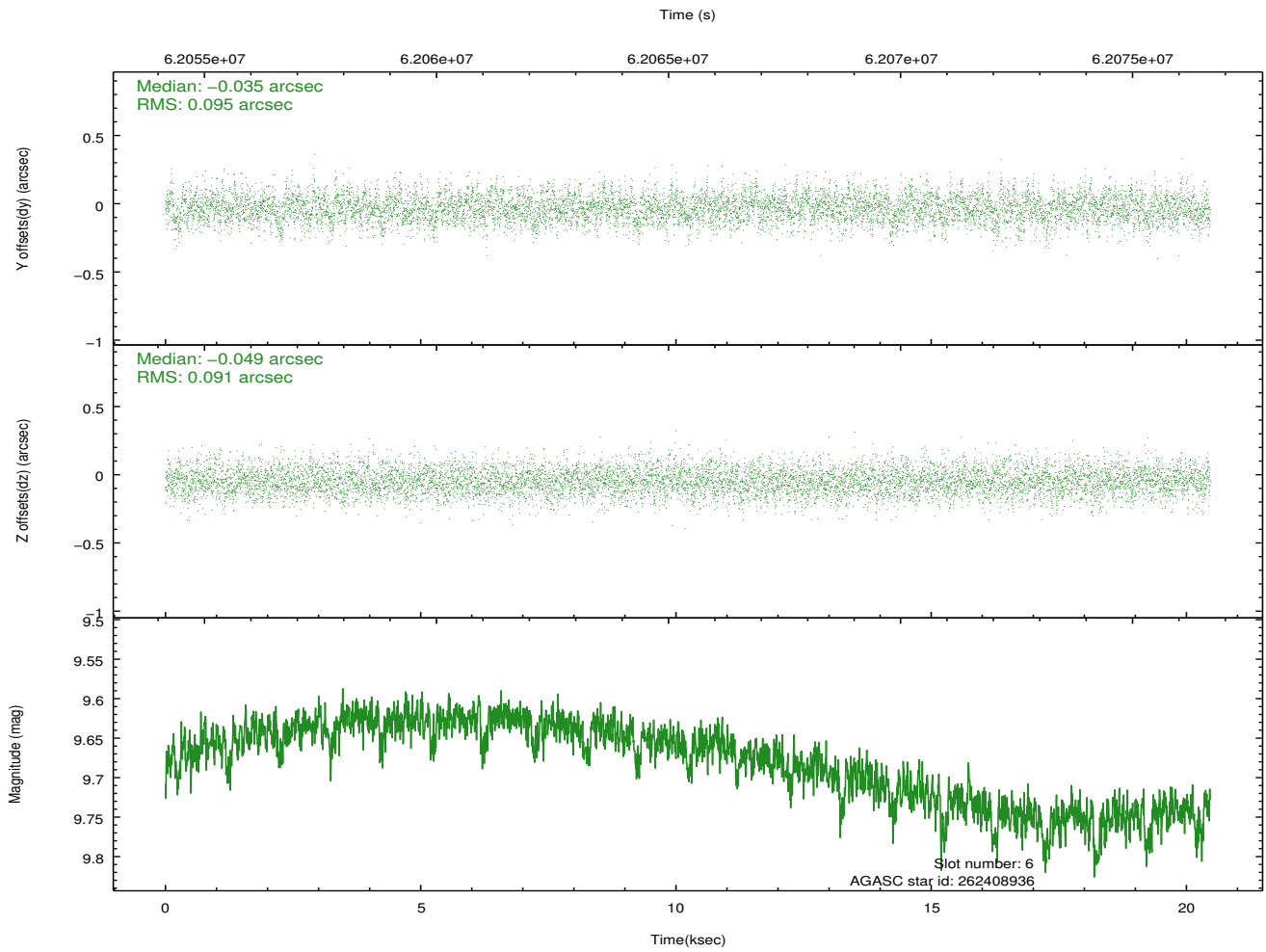
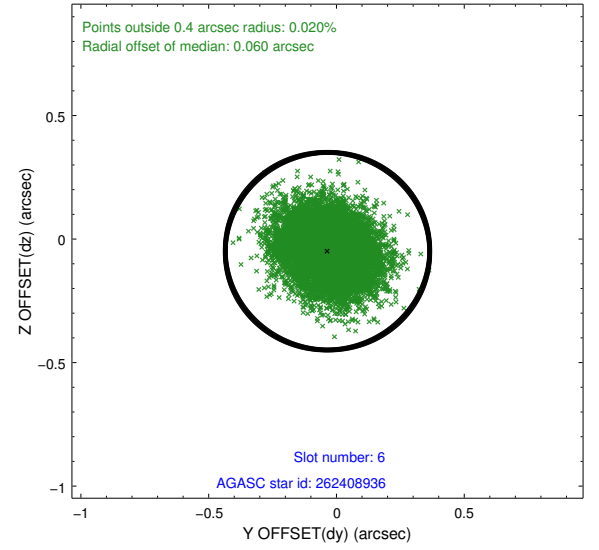
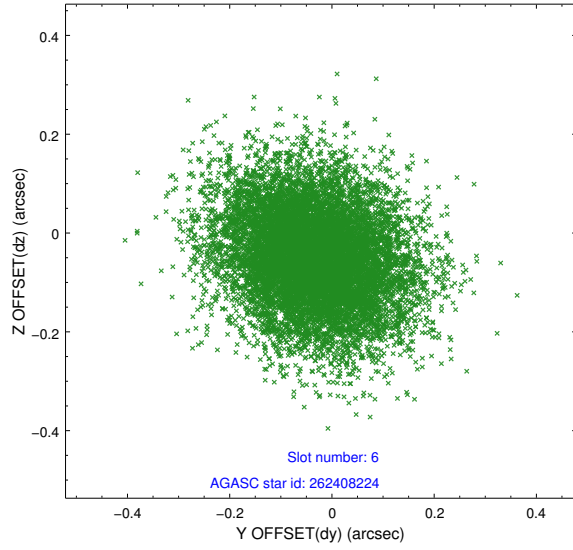
2.4.2 Slot 4



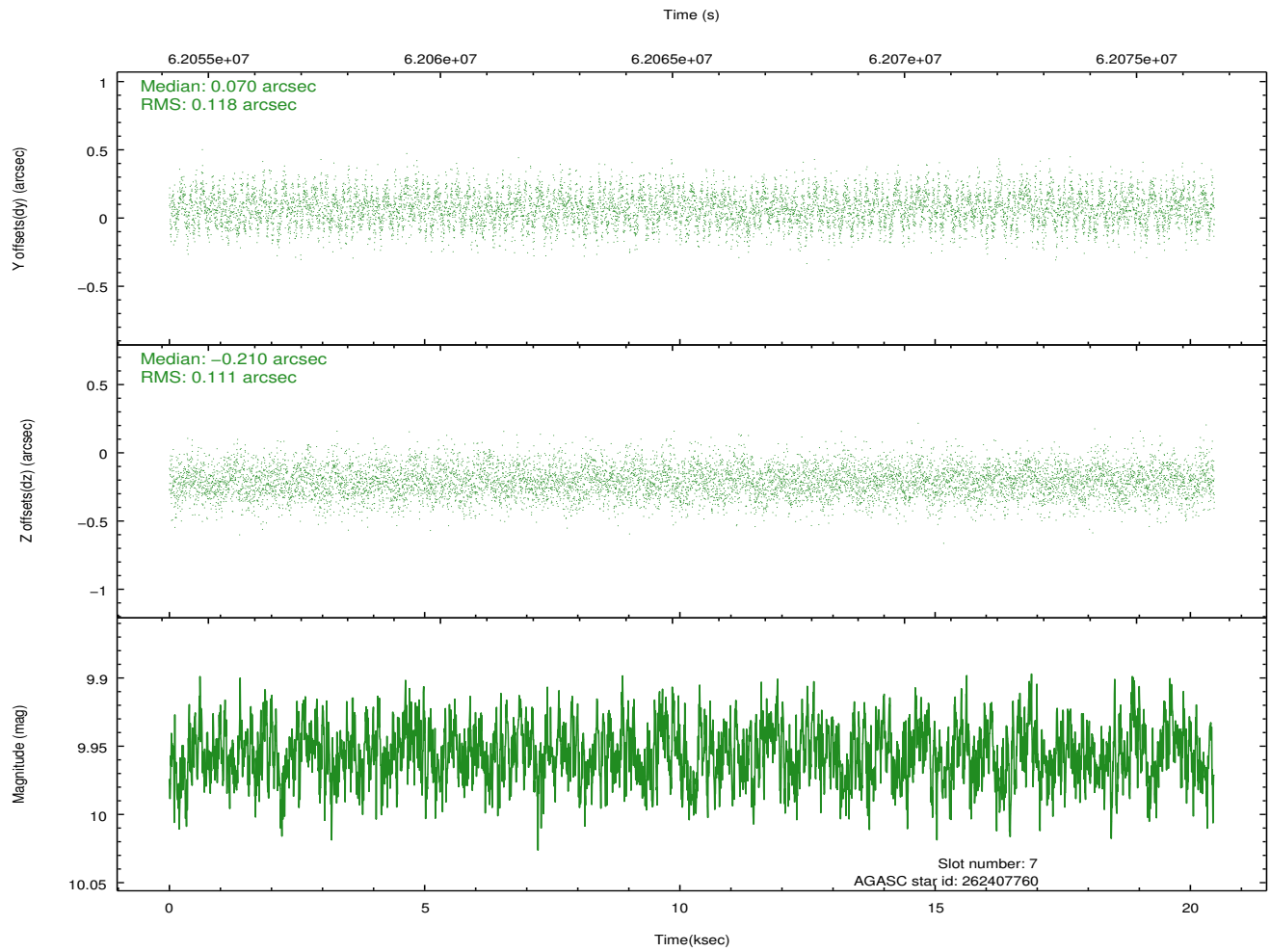
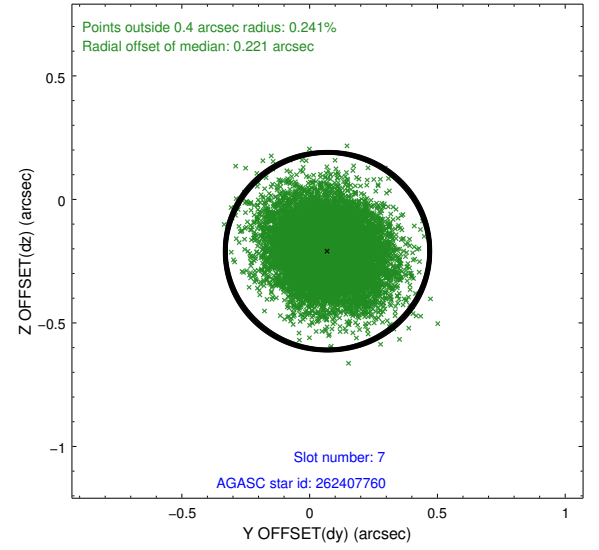
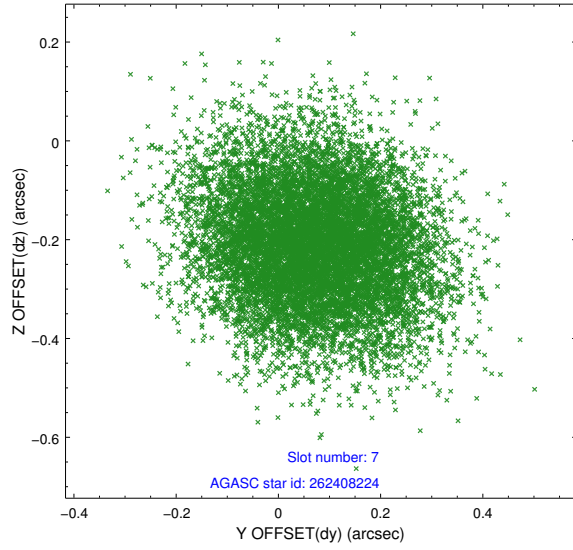
2.4.3 Slot 5



2.4.4 Slot 6

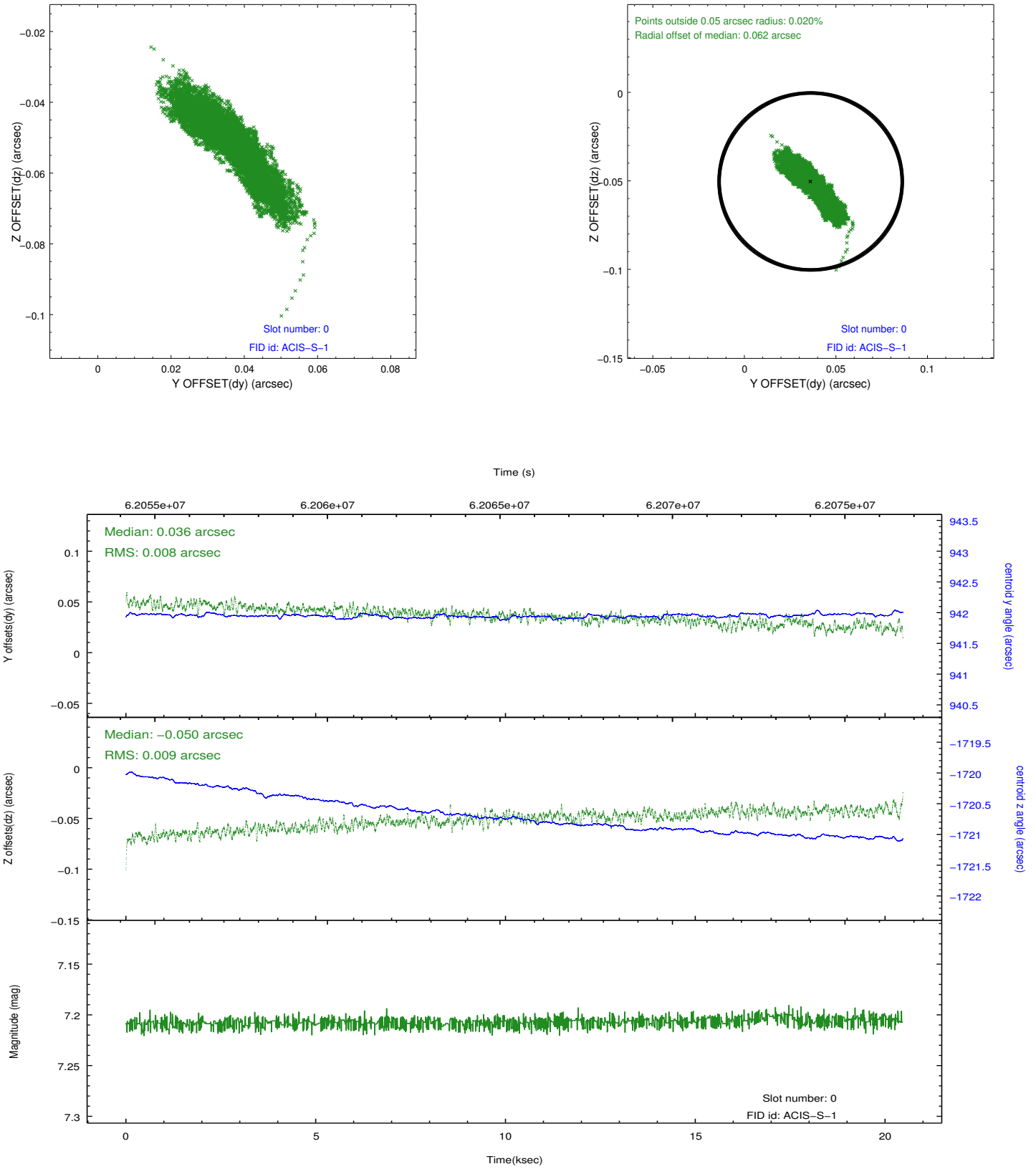


2.4.5 Slot 7

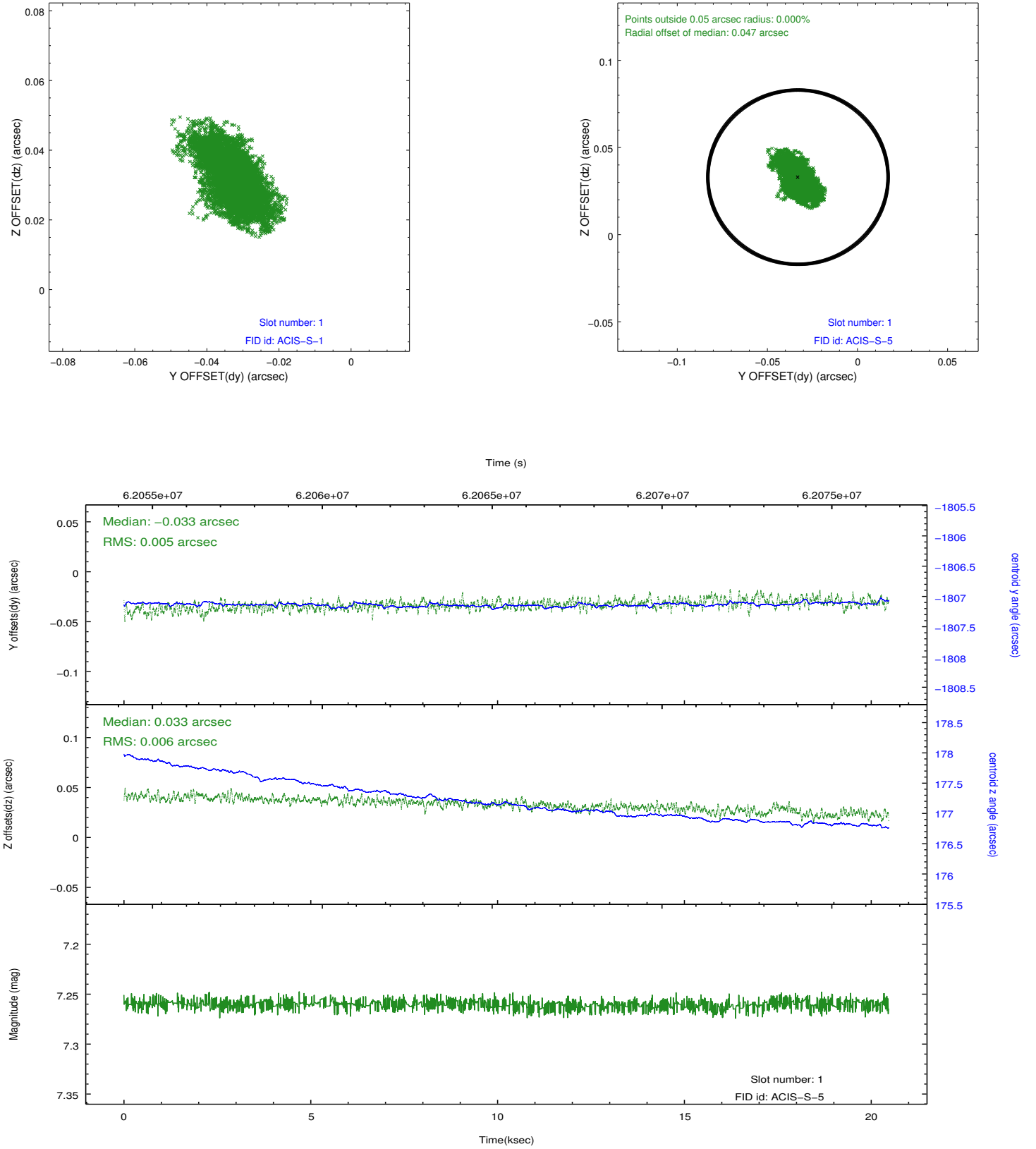


2.5 FID Slots

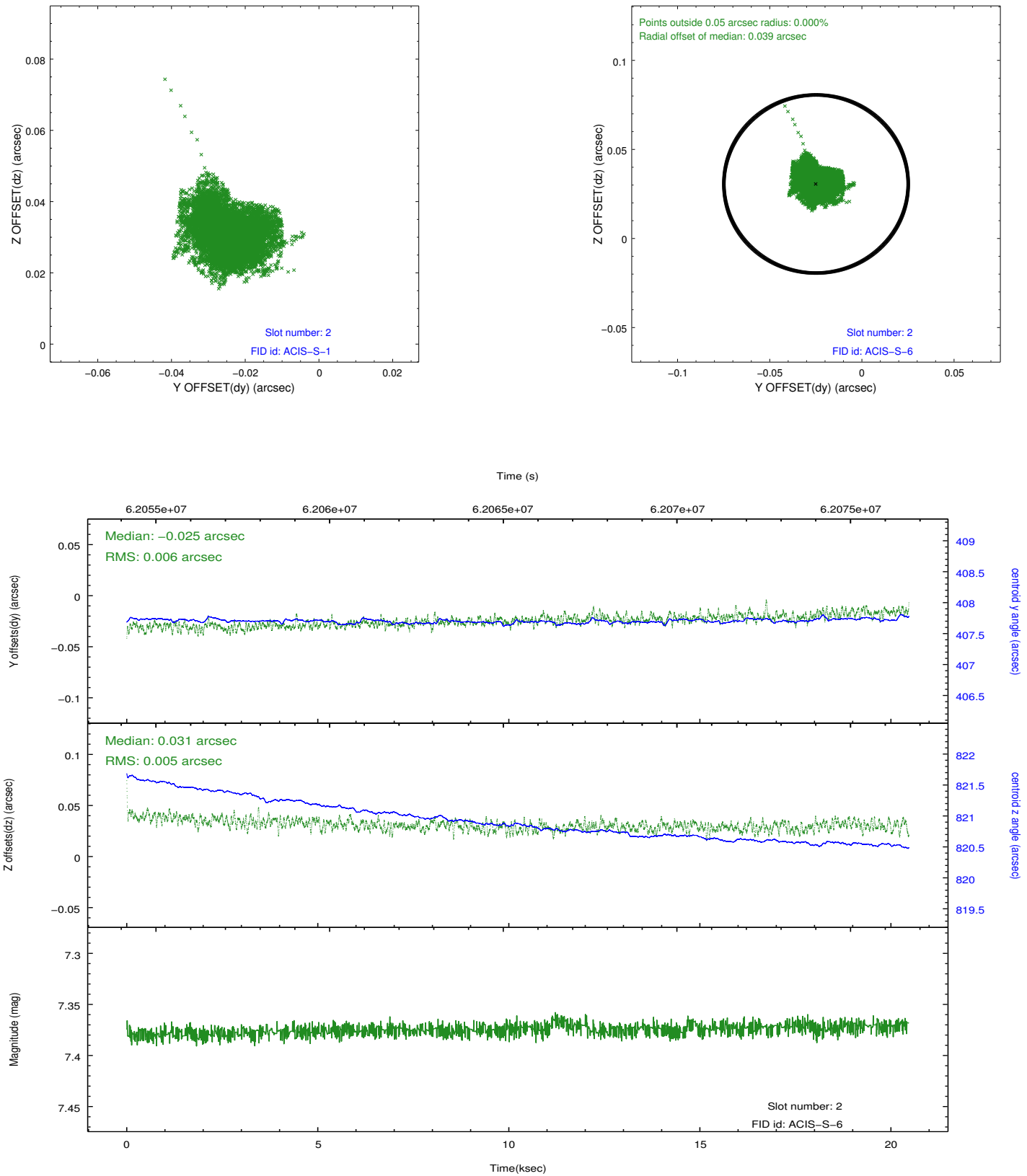
2.5.1 Slot 0



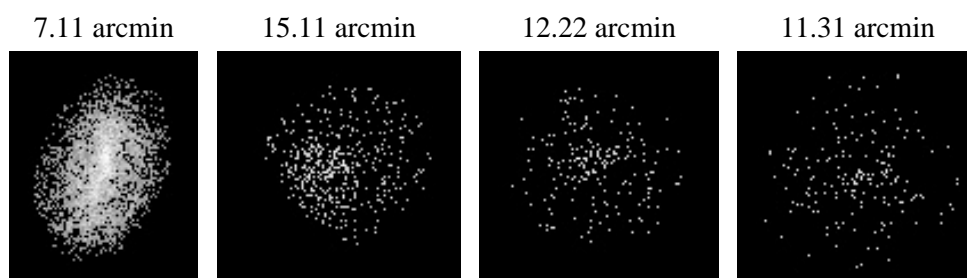
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.11.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.772

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

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This reprocessing of the data applies no CTI correction because none is available for that temperature.