

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10495 - L2 Version 2
Chandra X-Ray Center

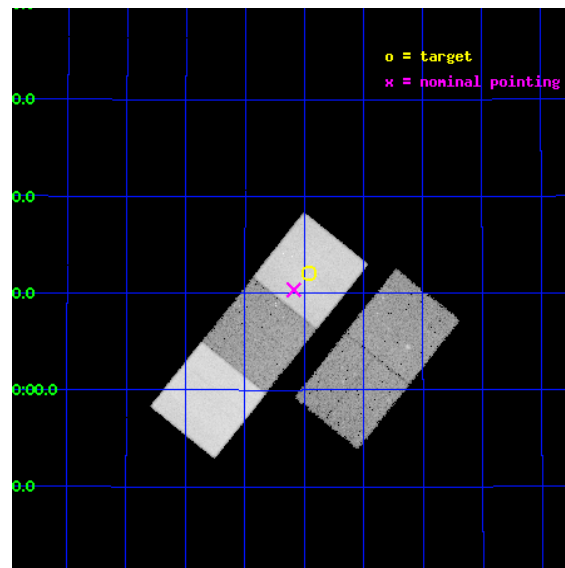
L2 Processing Date : Jun 13 2012

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1 Front

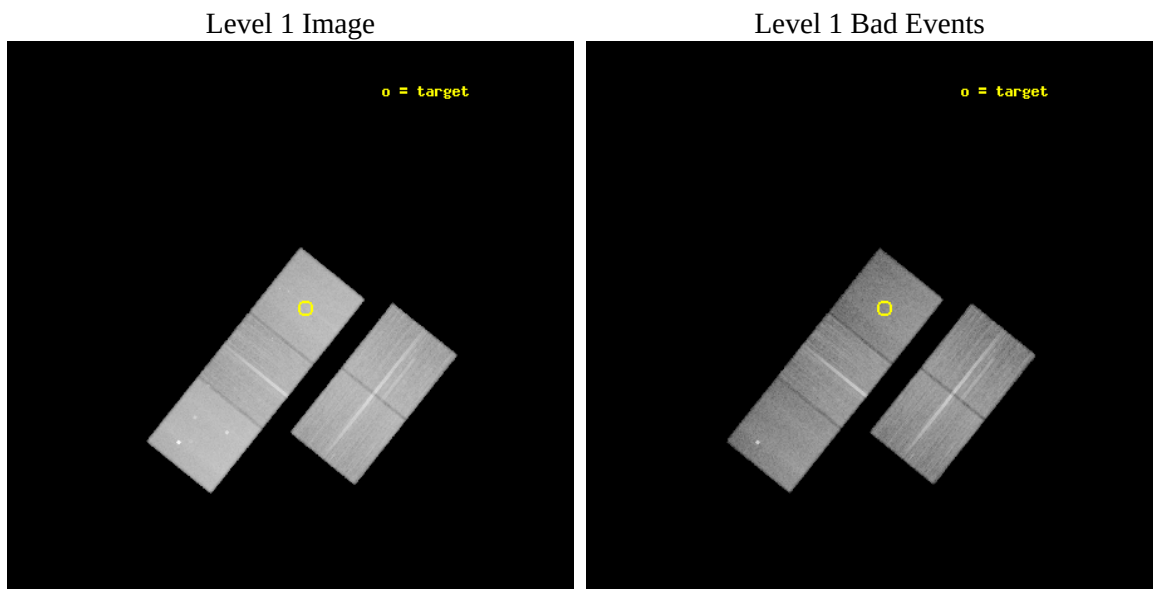
seq_num	900866	Sequence number
obs_id	10495	Observation id
title	Understanding Group Evolution with Chandra	Proposal title
observer	Dr. Eric Miller	Principal investigator
object	Bootes Group 23	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.74125	Observer's specified target RA [deg]
dec_targ	34.200389	Observer's specified target Dec [deg]
ra_nom	216.77190276575	Nominal RA [deg]
dec_nom	34.172701087826	Nominal Dec [deg]
roll_nom	308.7161309384	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31142.600239515	Sum of GTIs [s]
livetime	30735.699240537	Livetime [s]
ontime2	31136.318288922	Sum of GTIs [s]
ontime3	31139.459279239	Sum of GTIs [s]
ontime5	31142.600239515	Sum of GTIs [s]
ontime6	31136.318318784	Sum of GTIs [s]
ontime7	31142.600239515	Sum of GTIs [s]
l2events	391884	Number of level 2 events



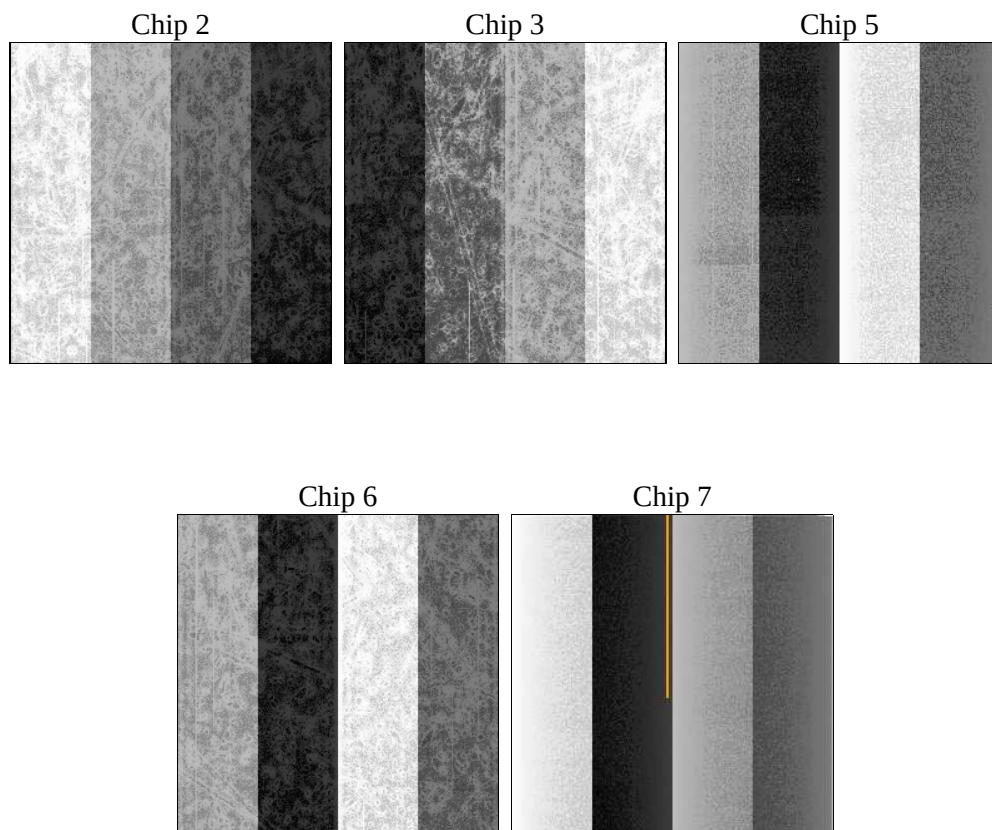
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31111.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	31142.600239515	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	31136.318288922	Sum of GTIs [s]
date	2012-06-13T21:56:19	Date and time of file creation	ontime3	31139.459279239	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	31142.600239515	Sum of GTIs [s]
			ontime6	31136.318318784	Sum of GTIs [s]
			ontime7	31142.600239515	Sum of GTIs [s]
			l1events	1515667	Number of level 1 events

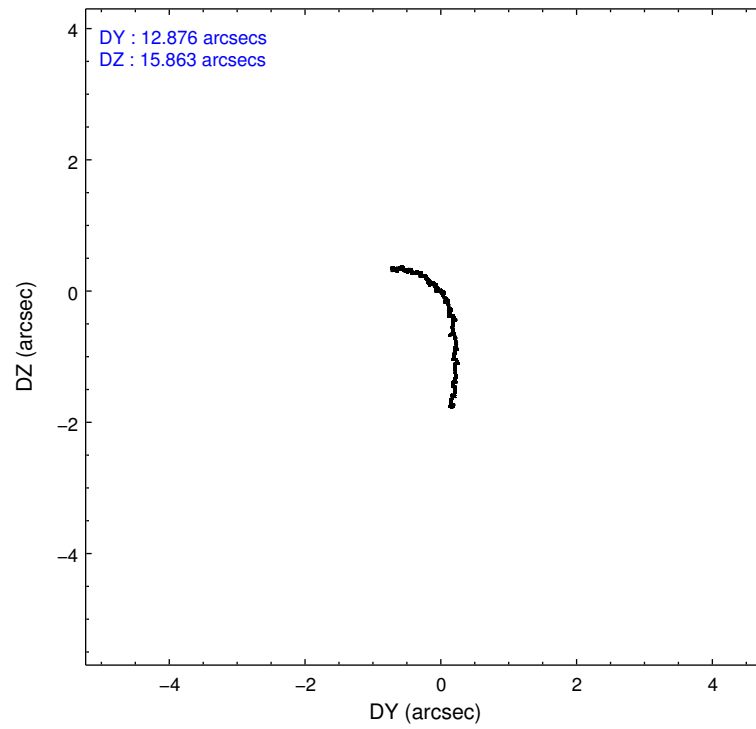
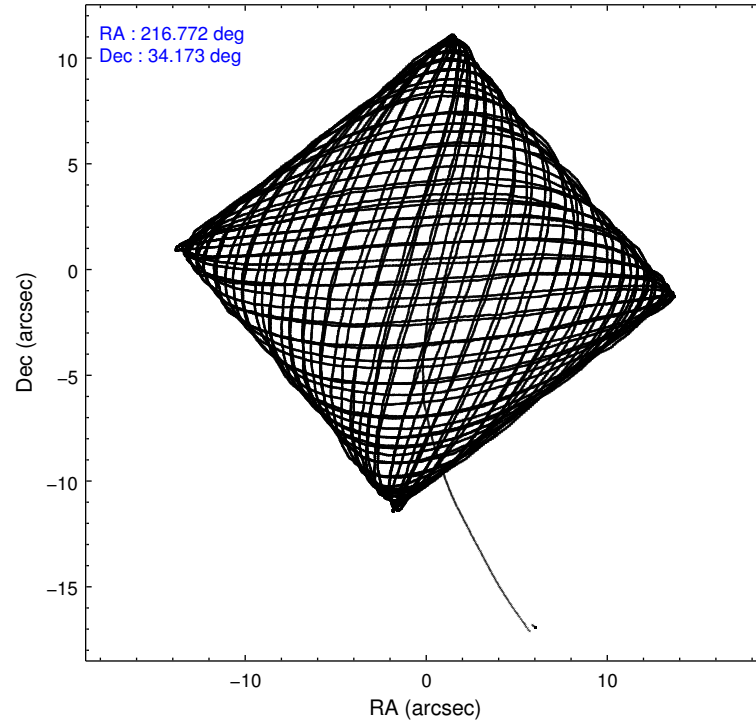
2.1.4 Events

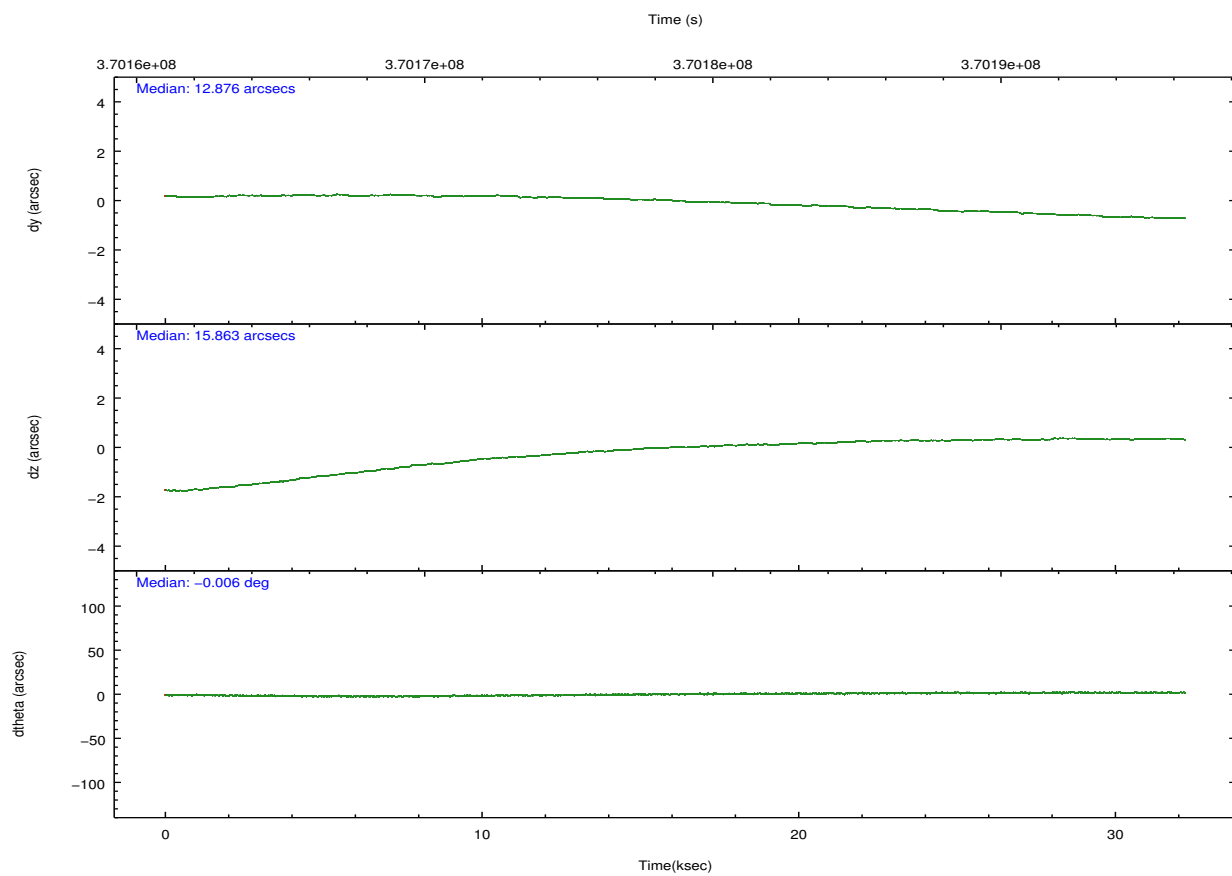
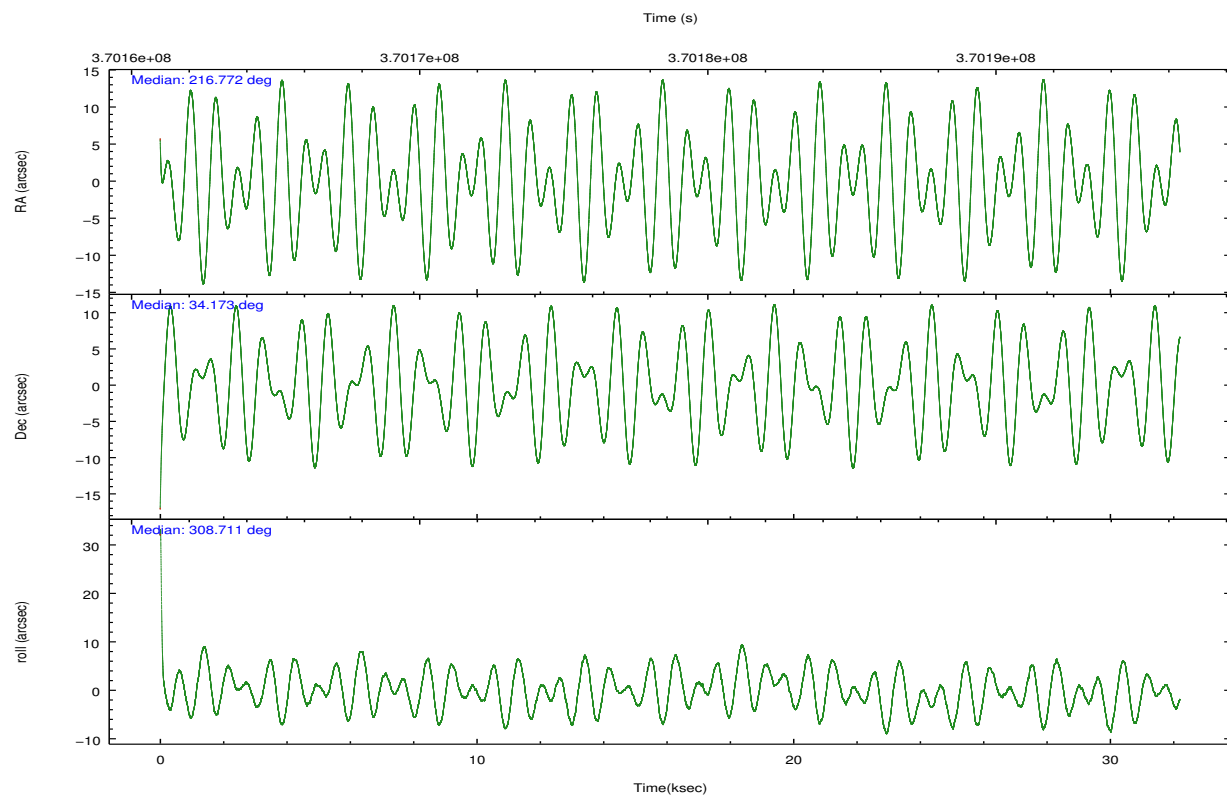
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	280061	262190	387591	273295	312530	grade 0 events	9558	9144	18224	10129	14352
rejected events	253057	236189	194741	244450	168568		3%	3%	4%	3%	4%
rejected %	90%	90%	50%	89%	53%	grade 1 events	193	149	2759	141	460
							0%	0%	0%	0%	0%
						grade 2 events	6668	5827	57946	6521	29885
							2%	2%	14%	2%	9%
						grade 3 events	2718	2922	7915	3090	12946
							0%	1%	2%	1%	4%
						grade 4 events	2934	2854	7536	3021	12939
							1%	1%	1%	1%	4%
						grade 5 events	8976	10922	30052	11127	32247
							3%	4%	7%	4%	10%
						grade 6 events	5130	5260	101264	6092	73862
							1%	2%	26%	2%	23%
						grade 7 events	243884	225112	161895	233174	135839
							87%	85%	41%	85%	43%

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	216.740929	216.7719027657494	CCD I2 on	O1	Y
[deg] Pointing Dec	34.182274	34.17270108782562	CCD I3 on	O2	Y
[deg] Pointing Roll	308.576893	308.7161309383985	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)	370163677.184000	370161393.23175	CCD S5 on	N	N
Observation start date	2009-09-24T07:13:31	2009-09-24T06:36:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	370194788.184000	370195672.82097	On-chip summing requested	N	N
Observation end date	2009-09-24T15:52:02	2009-09-24T16:07:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



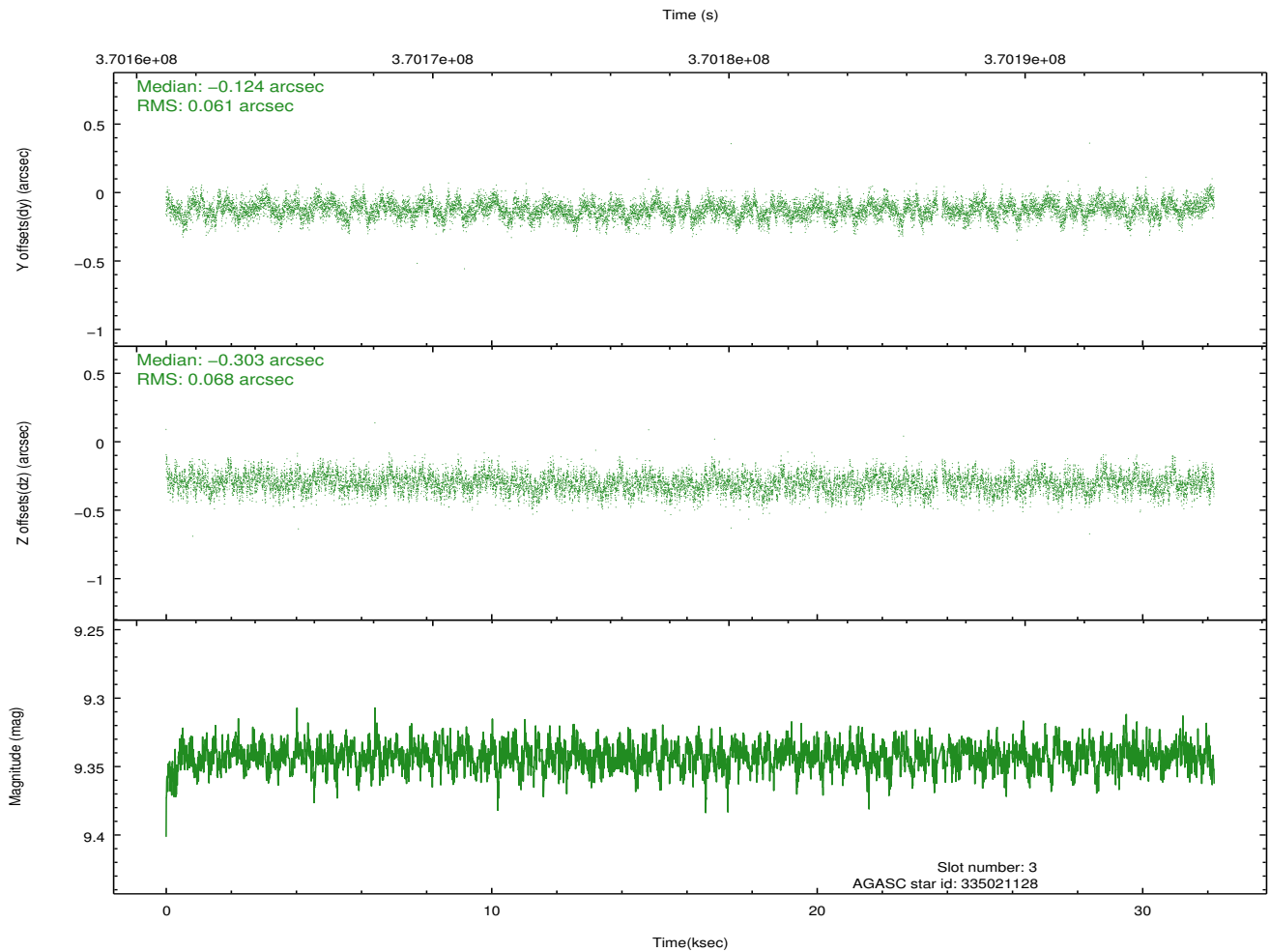
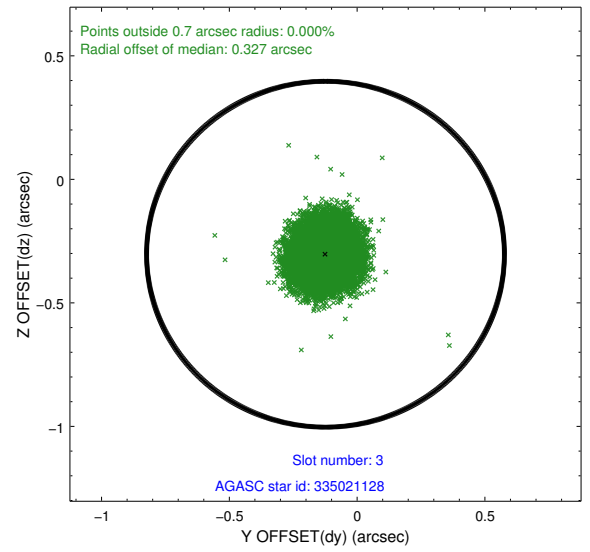
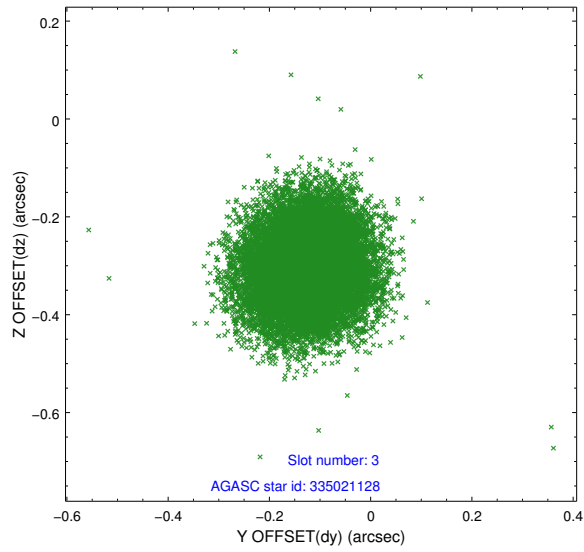


Slot Statistics

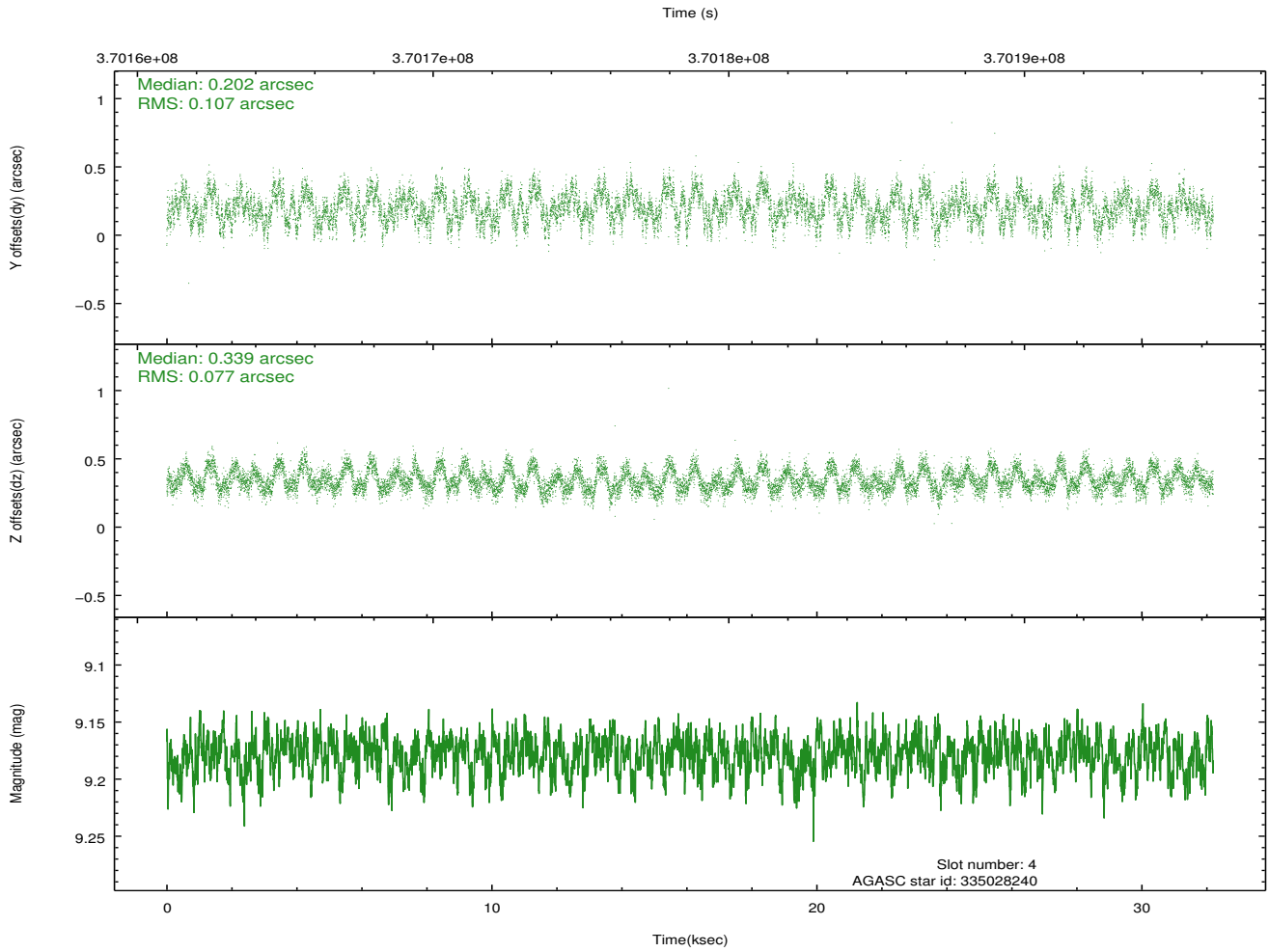
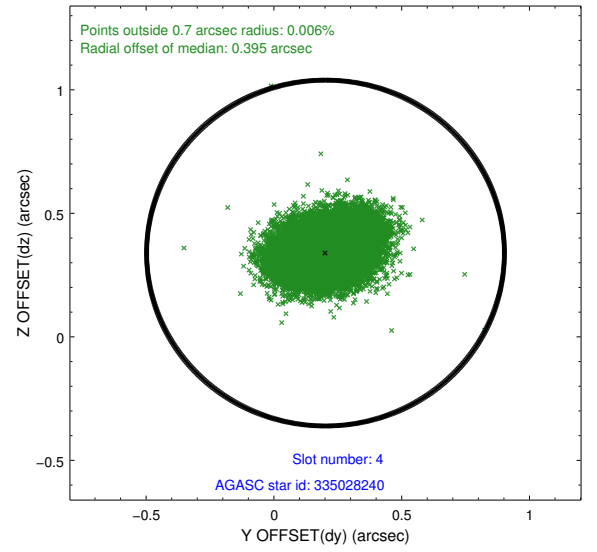
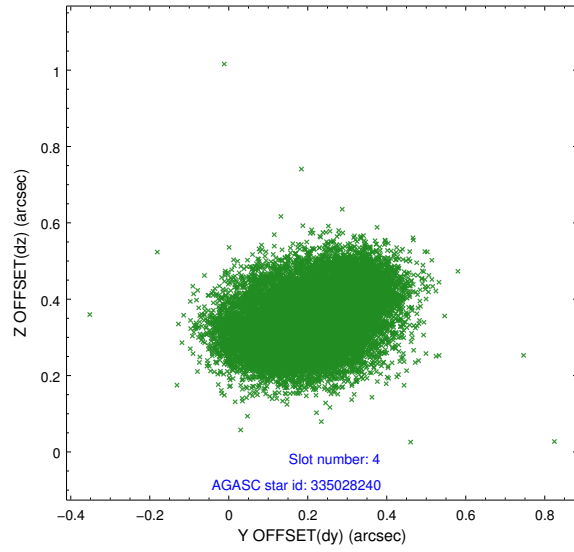
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.93	7855	0.077	-0.089	0.035	0.081	0.000000	0.000000	930.45	-1732.67
1	FID	ACIS-S-5	6.97	7854	-0.126	0.045	0.015	0.024	0.000000	0.000000	-1818.73	164.92
2	FID	ACIS-S-6	7.06	7855	0.034	0.053	0.030	0.076	0.000000	0.000000	395.88	808.95
3	GUIDE	335021128	9.34	15632	-0.124	-0.303	0.097	0.157	216.159551	34.422539	-1756.47	-807.69
4	GUIDE	335028240	9.18	15692	0.202	0.339	0.144	0.223	216.746851	33.385009	2254.77	-1775.61
5	GUIDE	335028336	9.45	15678	0.071	0.282	0.158	0.252	217.189840	34.665629	-533.59	2126.19
6	GUIDE	335028696	9.15	15696	-0.270	-0.503	0.085	0.136	217.260519	33.844112	1917.23	457.74
7	GUIDE	335030384	8.83	15627	0.122	0.185	0.094	0.151	216.806407	34.722197	-1398.48	1363.70

2.4 Star Slots

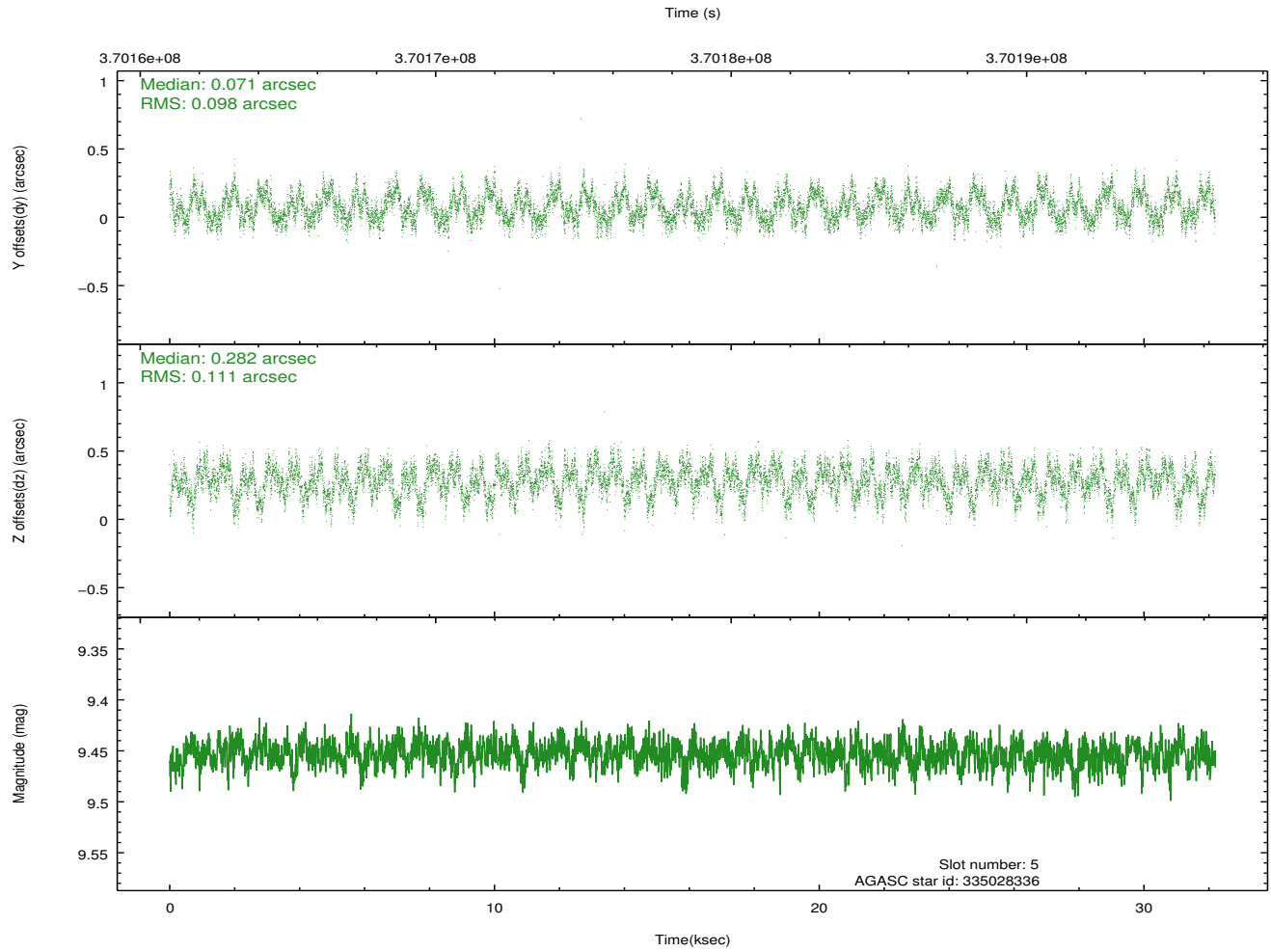
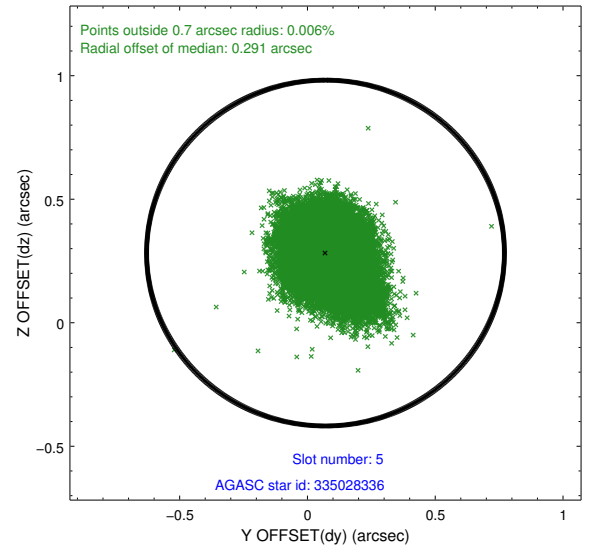
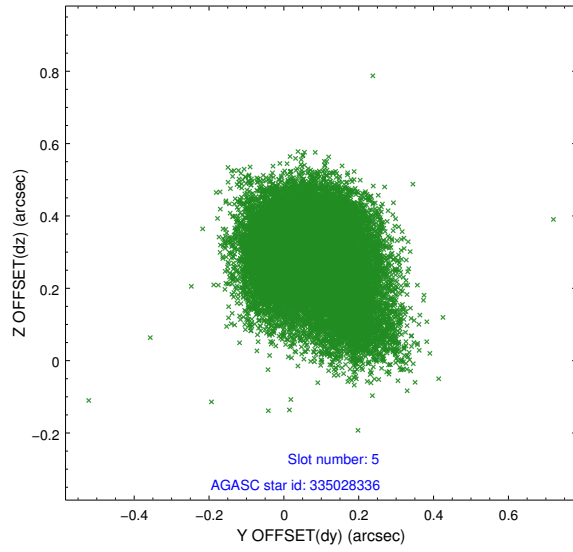
2.4.1 Slot 3



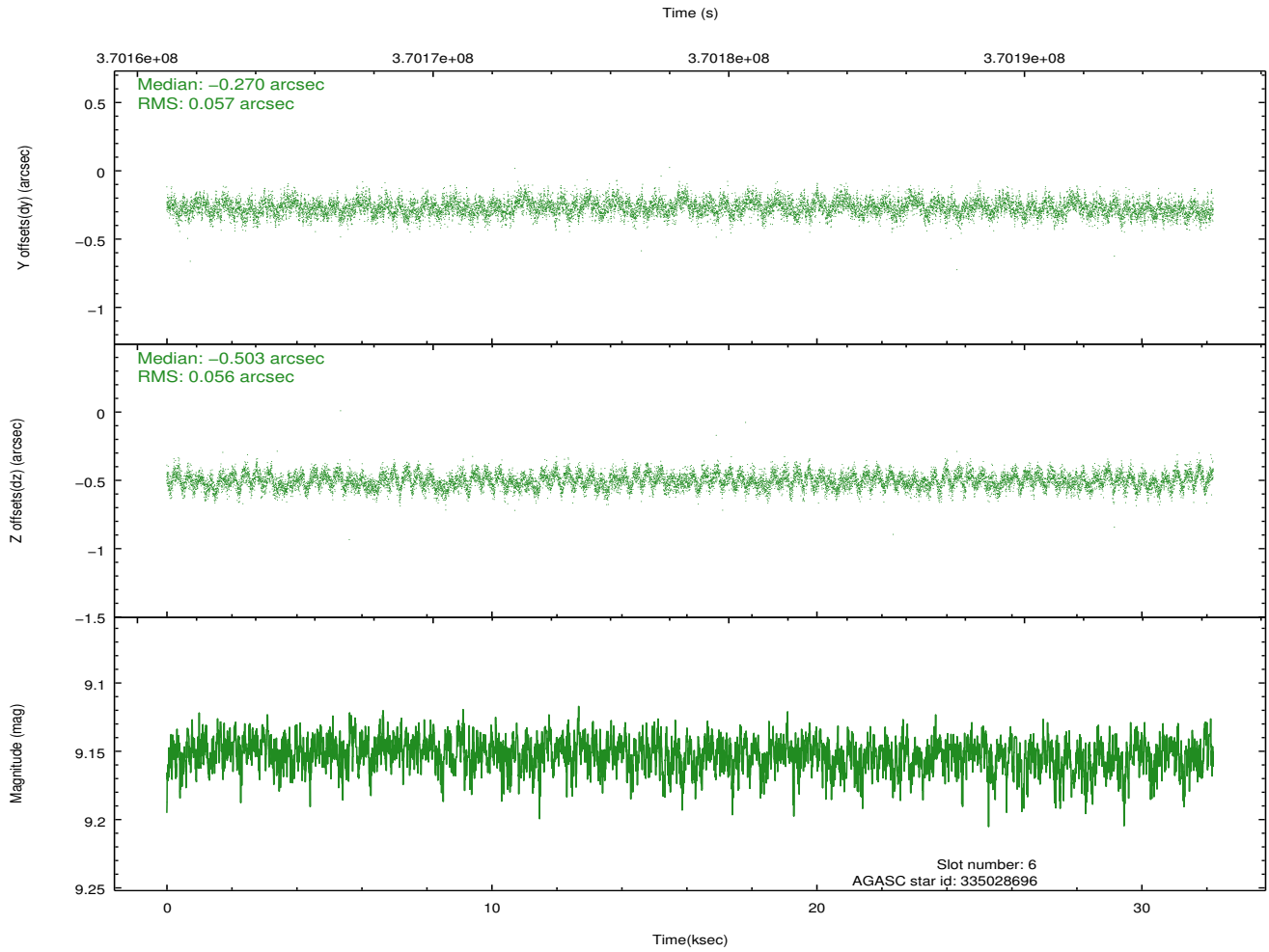
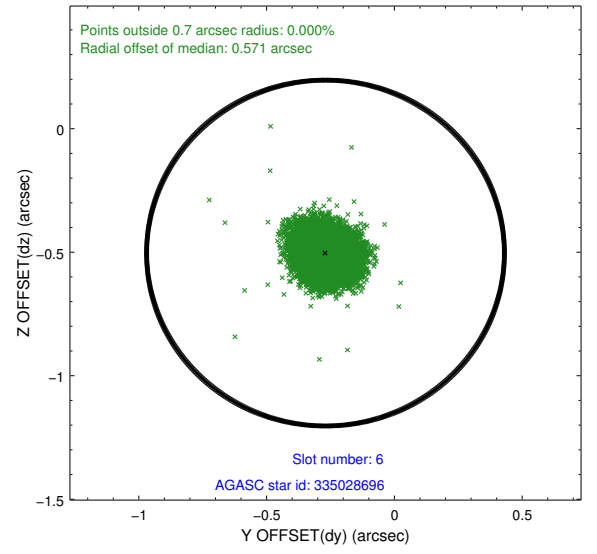
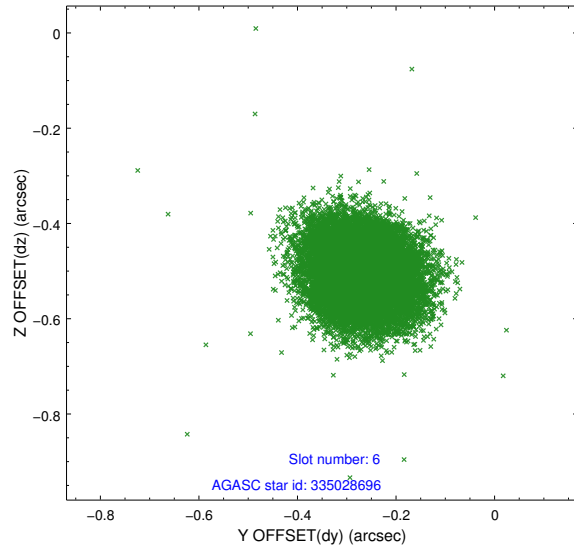
2.4.2 Slot 4



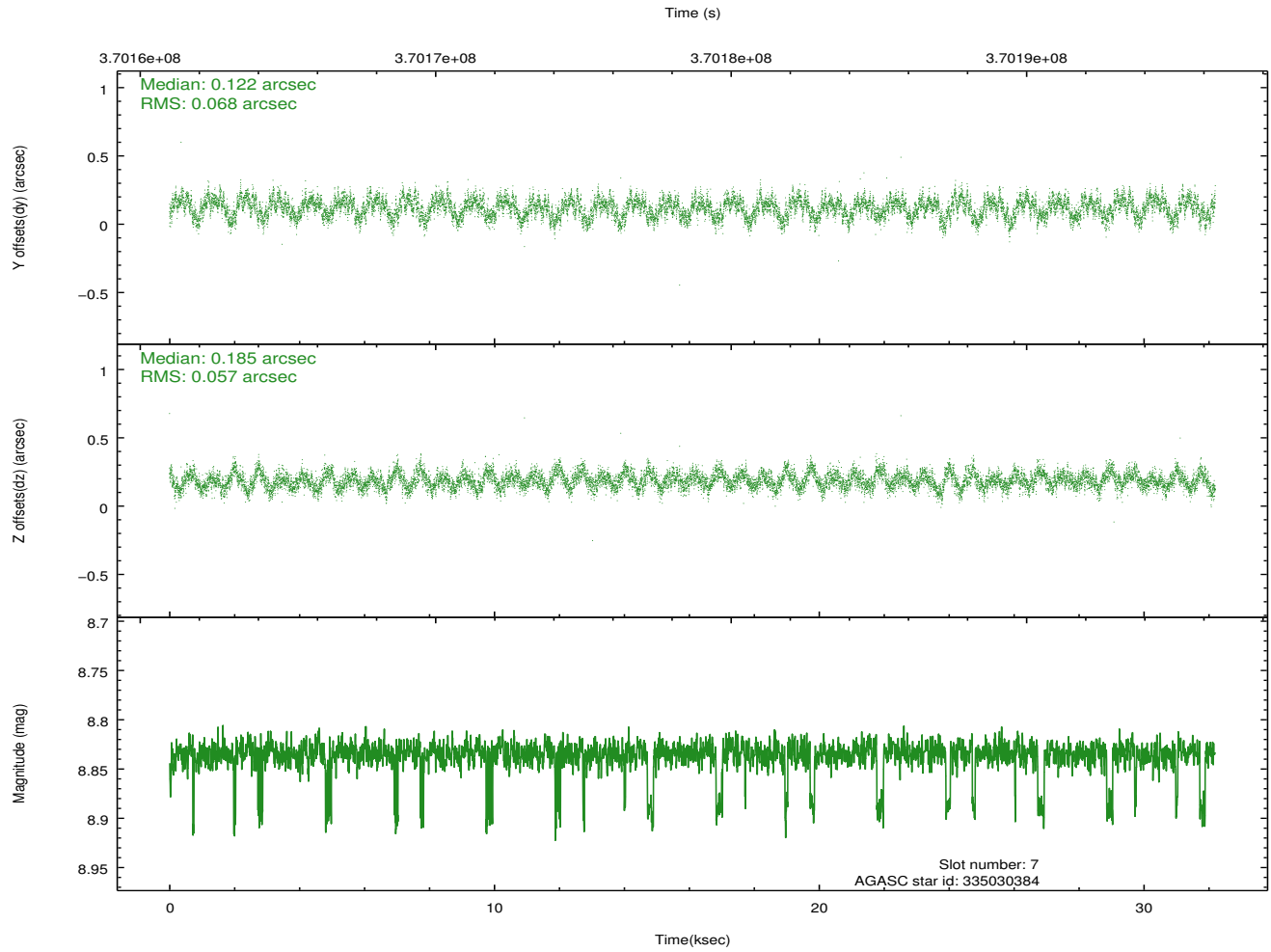
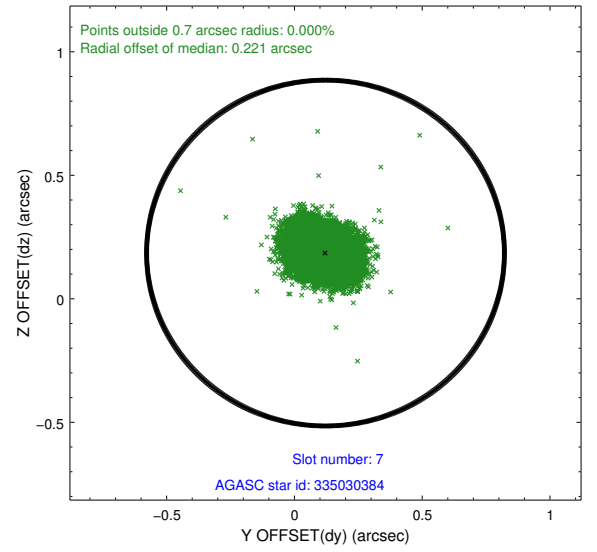
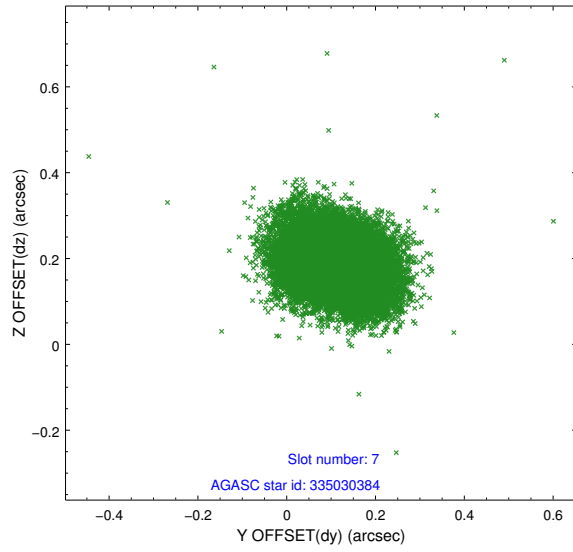
2.4.3 Slot 5



2.4.4 Slot 6

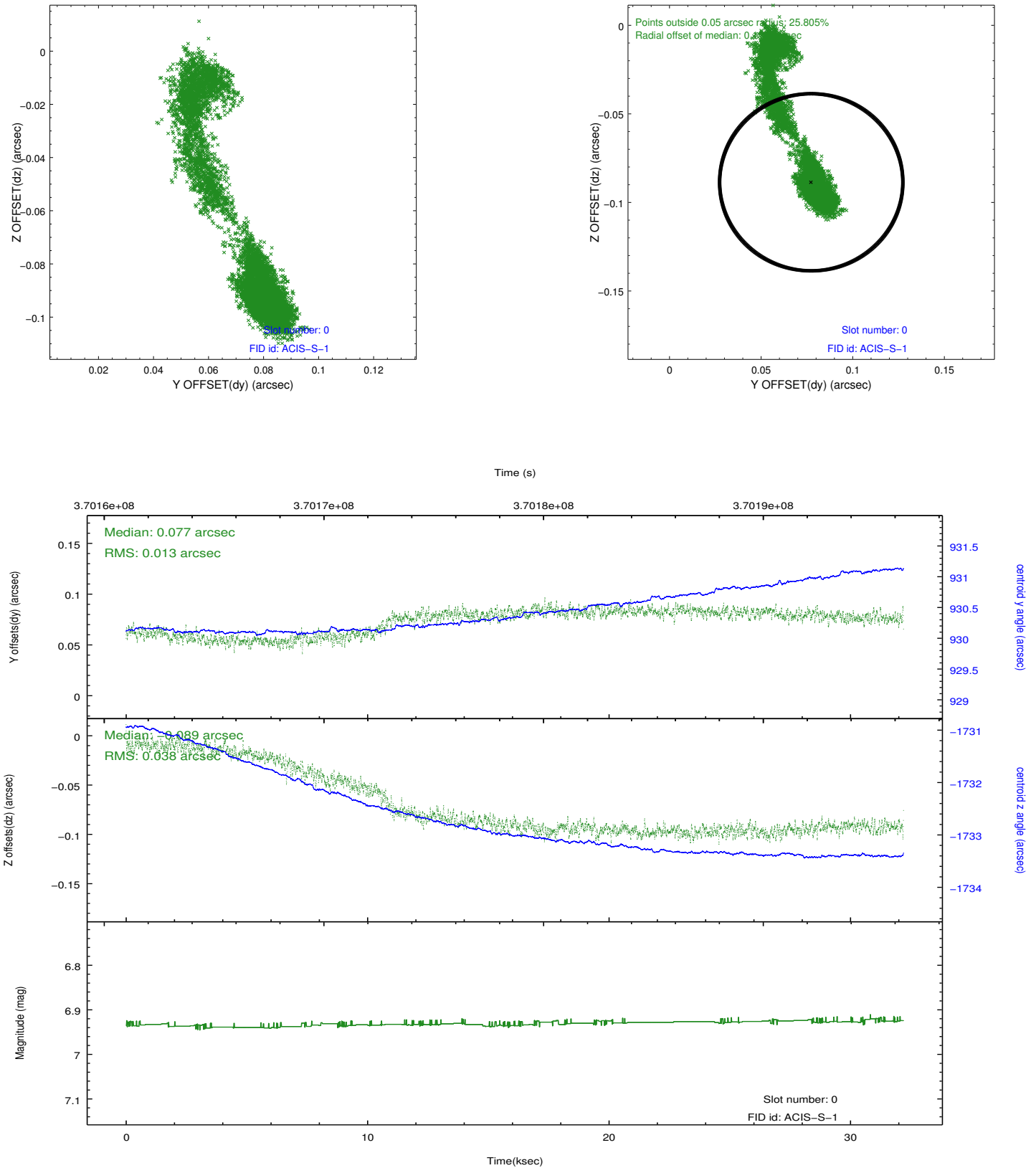


2.4.5 Slot 7

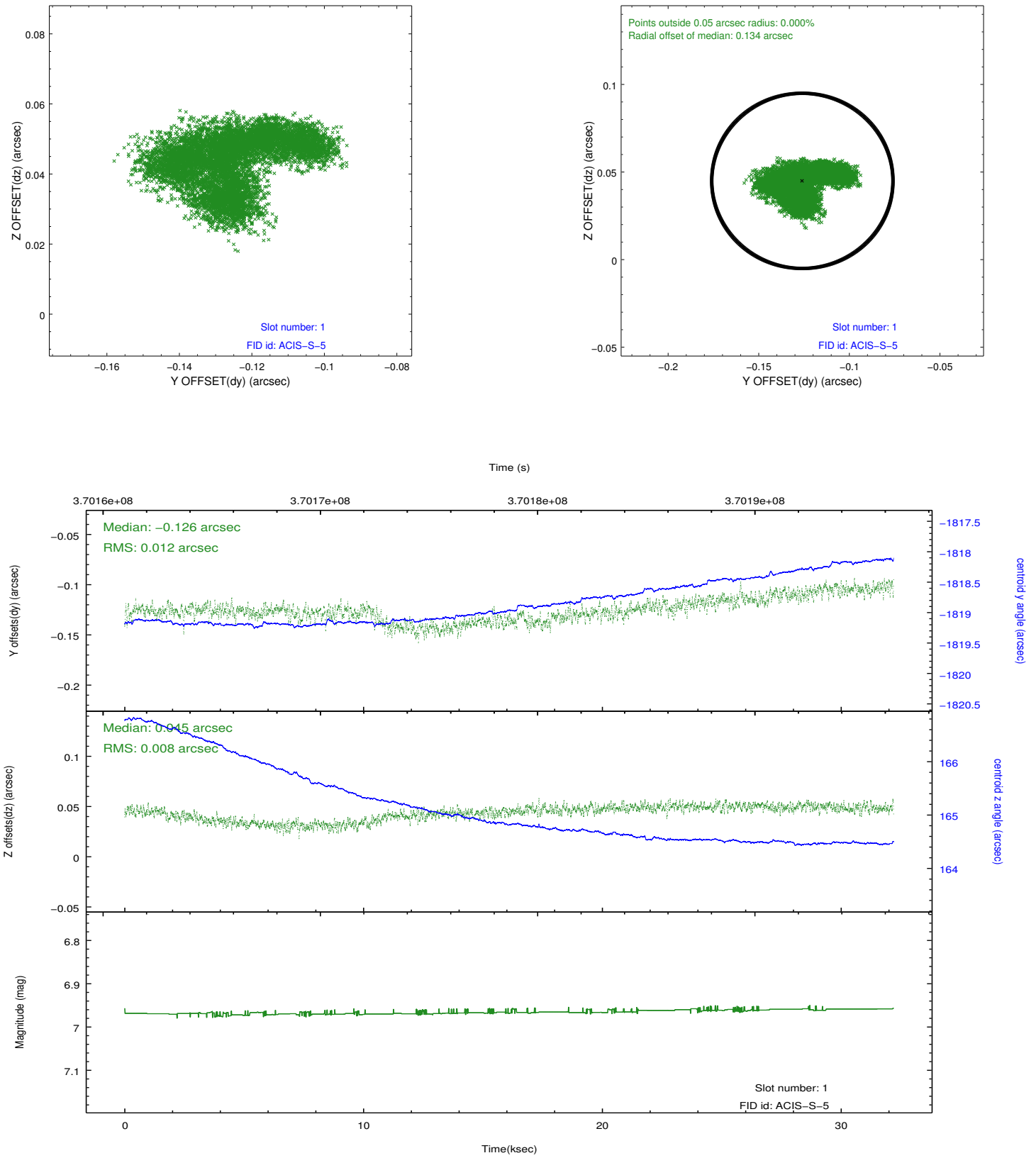


2.5 FID Slots

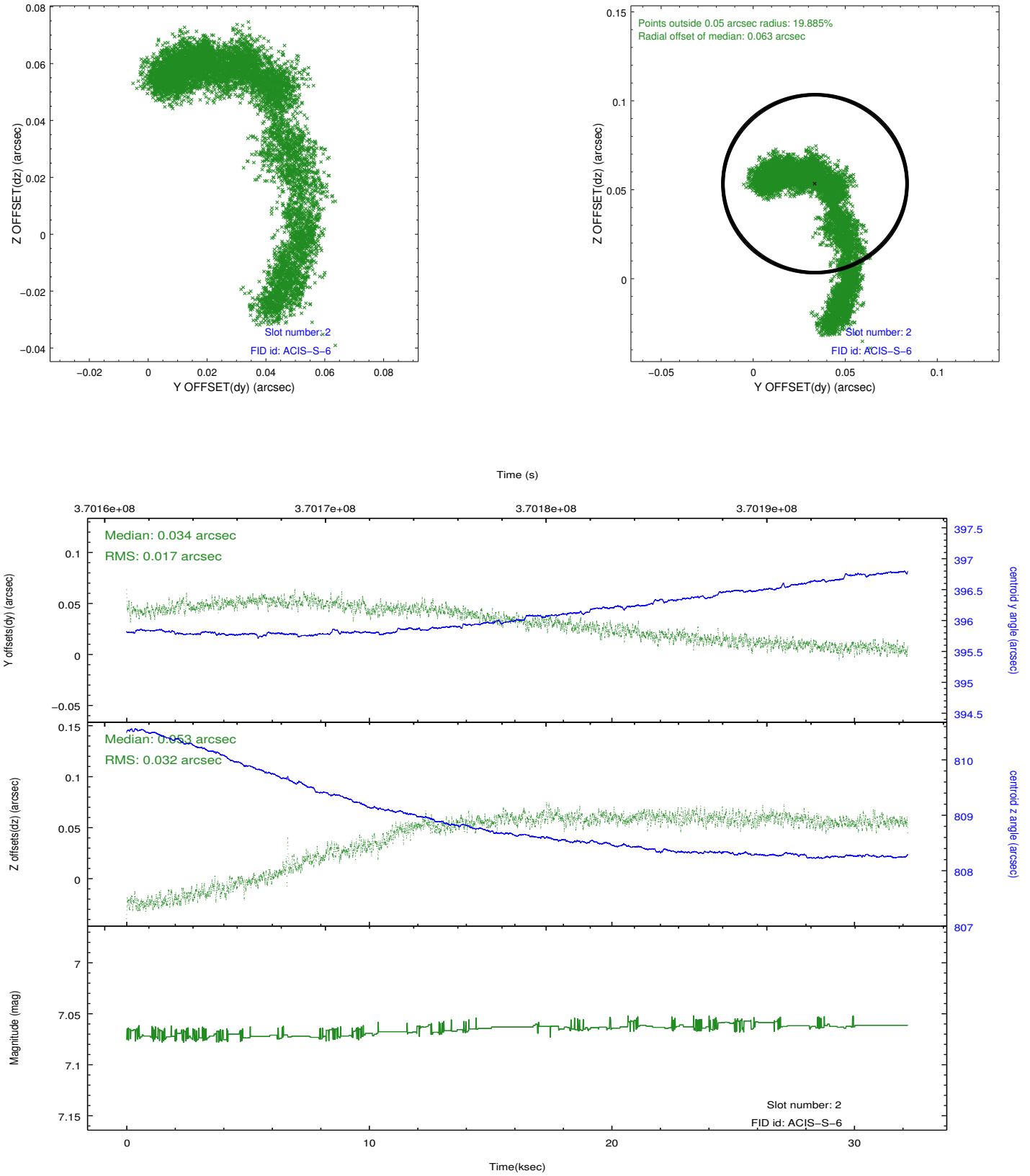
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.144485830009

A.2 Comments