

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 15071 - L2 Version 2
Chandra X-Ray Center

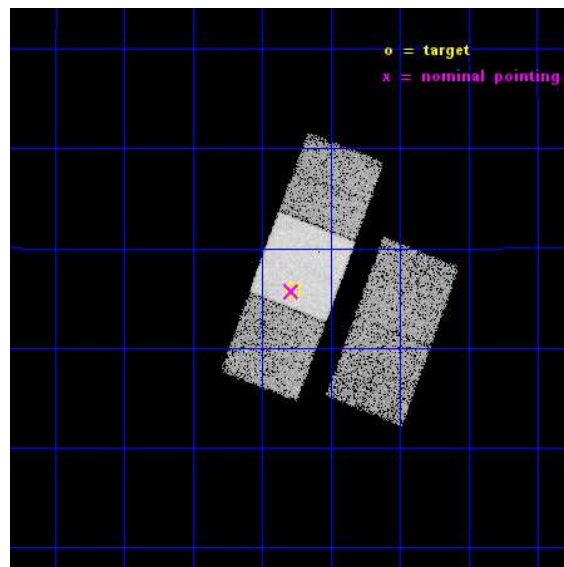
L2 Processing Date : Nov 30 2014

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1 Front

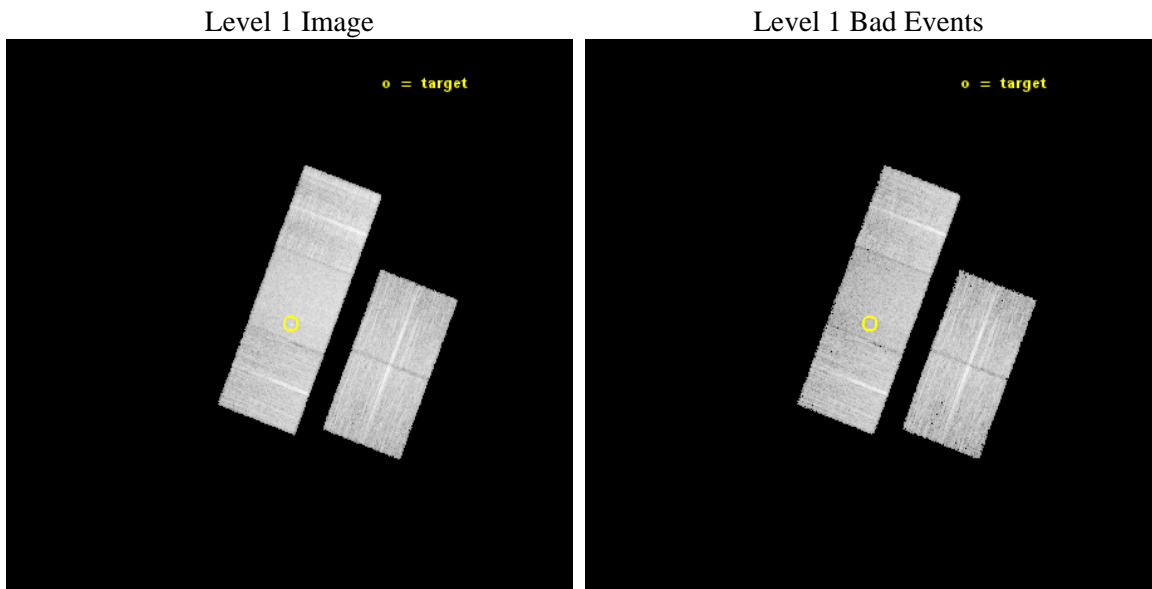
seq_num	702878	Sequence number
obs_id	15071	Observation id
title	C-GOALS: The Chandra-RBGS Survey of a Complete Sample of Major-Merger LIRGs	Proposal title
observer	Professor David Sanders	Principal investigator
object	CGCG 465-012	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.568333	Observer's specified target RA [deg]
dec_targ	15.928889	Observer's specified target Dec [deg]
ra_nom	58.571441625309	Nominal RA [deg]
dec_nom	15.928289157848	Nominal Dec [deg]
roll_nom	290.79420313382	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15068.465707064	Sum of GTIs [s]
livetime	14871.585109358	Livetime [s]
ontime2	15068.30154705	Sum of GTIs [s]
ontime3	15068.383627057	Sum of GTIs [s]
ontime6	15065.283626676	Sum of GTIs [s]
ontime7	15068.465707064	Sum of GTIs [s]
ontime8	15065.201536715	Sum of GTIs [s]
l2events	78404	Number of level 2 events



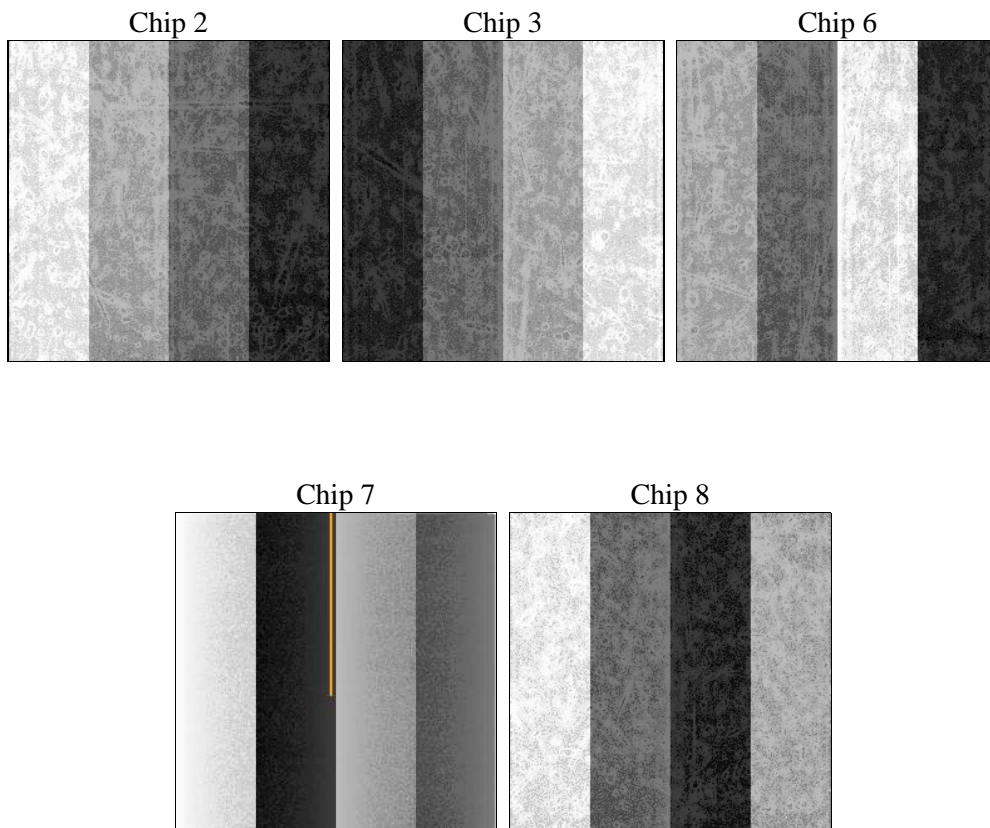
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	15068.465707064	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	15068.30154705	Sum of GTIs [s]
date	2014-11-30T07:33:21	Date and time of file creation	ontime3	15068.383627057	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15065.283626676	Sum of GTIs [s]
			ontime7	15068.465707064	Sum of GTIs [s]
			ontime8	15065.201536715	Sum of GTIs [s]
			l1events	452745	Number of level 1 events

2.1.4 Events

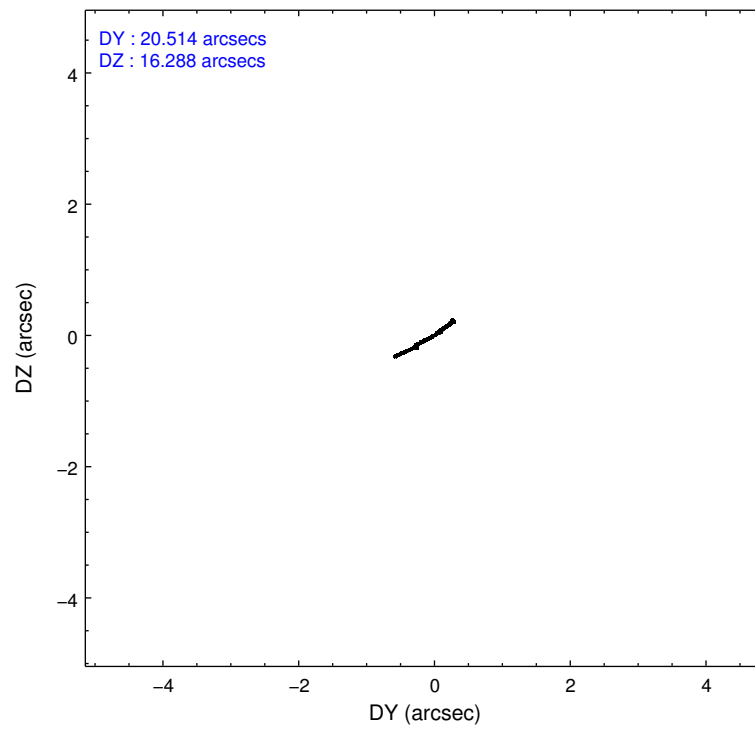
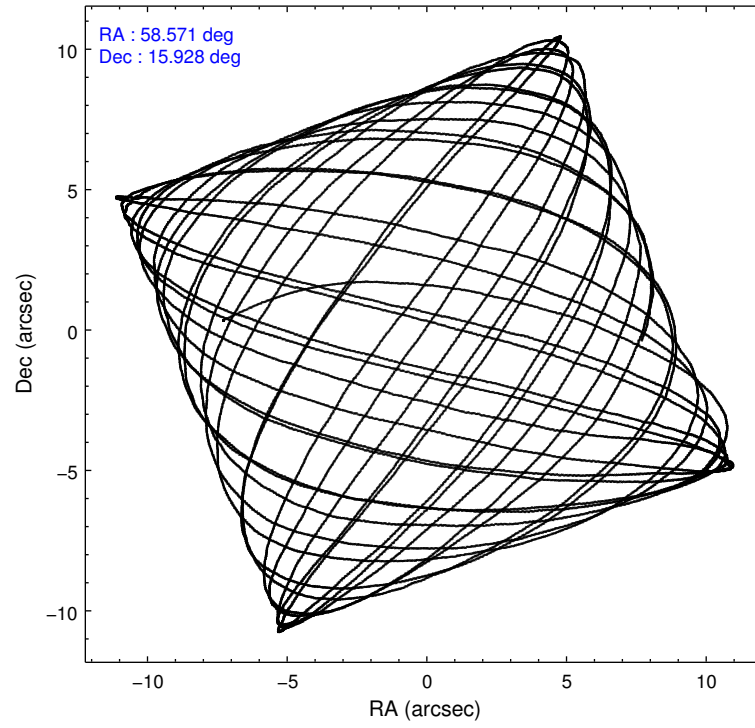
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	77043	77797	82099	108738	107068
rejected events	68259	69108	72298	61529	79403
rejected %	88%	88%	88%	56%	74%

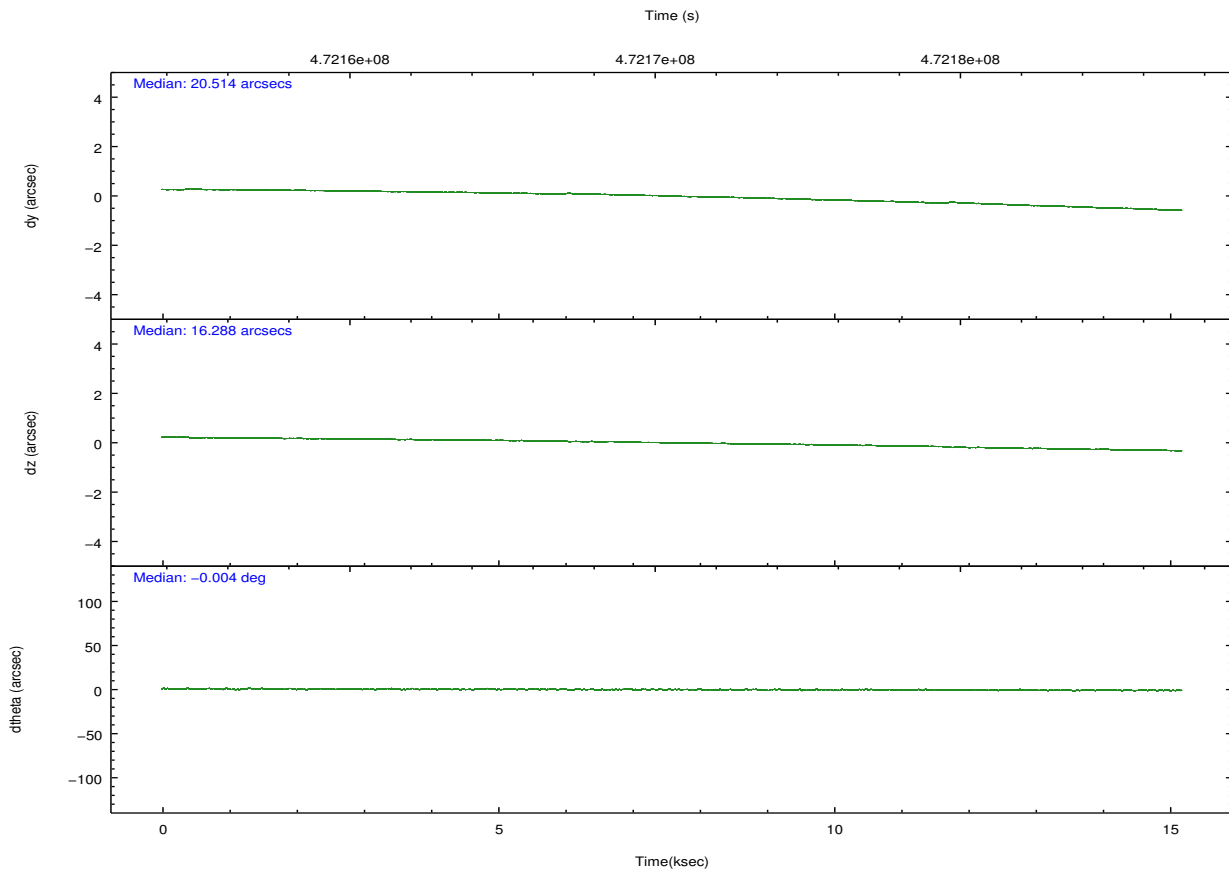
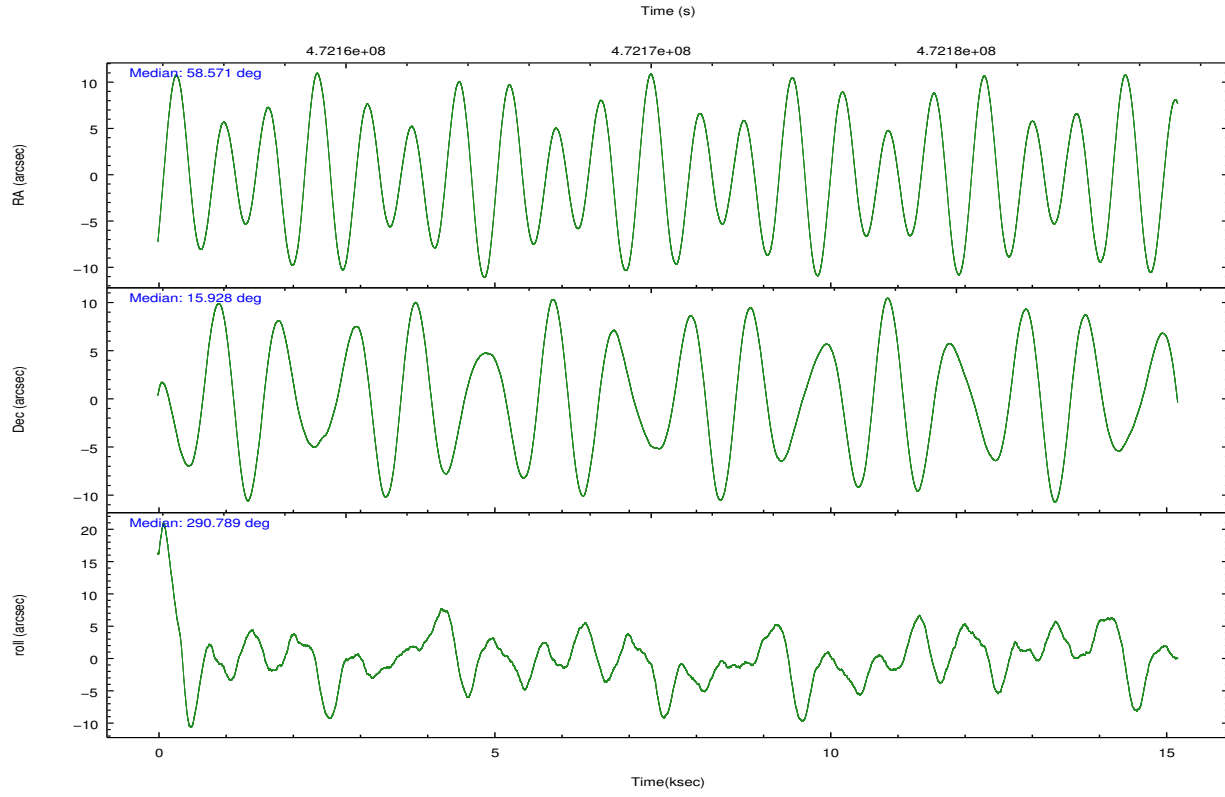
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3007	2991	3274	4203	7537
	3%	3%	3%	3%	7%
grade 1 events	51	33	53	120	82
	0%	0%	0%	0%	0%
grade 2 events	2190	1986	2167	9575	6815
	2%	2%	2%	8%	6%
grade 3 events	956	951	1042	4095	2956
	1%	1%	1%	3%	2%
grade 4 events	912	928	1033	3956	2752
	1%	1%	1%	3%	2%
grade 5 events	3386	4166	4279	11233	6107
	4%	5%	5%	10%	5%
grade 6 events	1720	1839	2288	25392	7638
	2%	2%	2%	23%	7%
grade 7 events	64821	64903	67963	50164	73181
	84%	83%	82%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	58.549142	58.57144162530935	CCD I2 on	O2	Y
[deg] Pointing Dec	15.945266	15.92828915784755	CCD I3 on	Y	Y
[deg] Pointing Roll	290.643695	290.7942031338224	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	472162852.184000	472161099.03783	CCD S5 on	N	N
Observation start date	2012-12-17T20:19:45	2012-12-17T19:51:39	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	472177852.184000	472178417.95126	On-chip summing requested	N	N
Observation end date	2012-12-18T00:29:45	2012-12-18T00:40:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





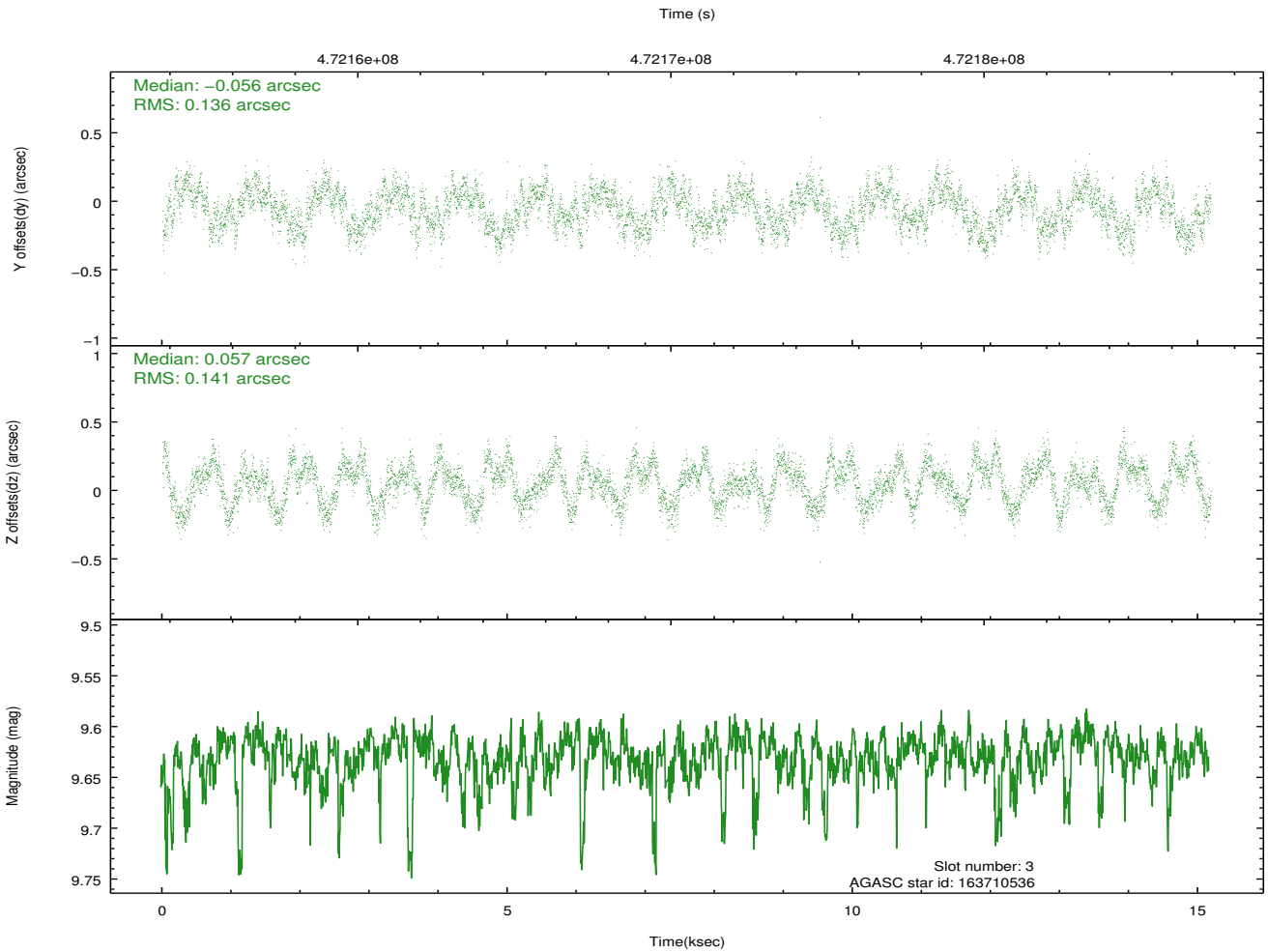
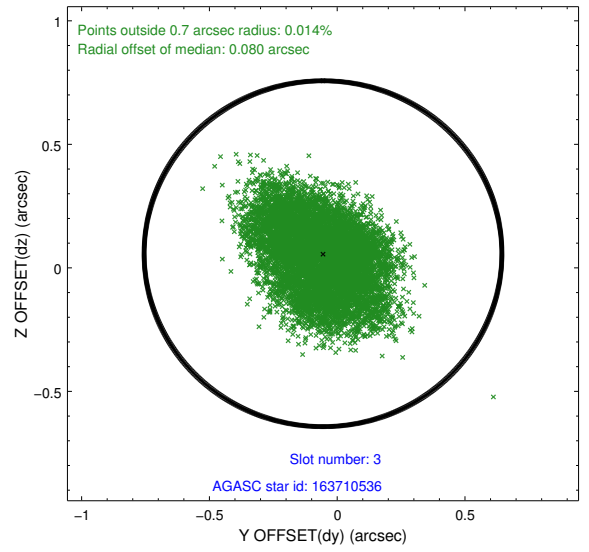
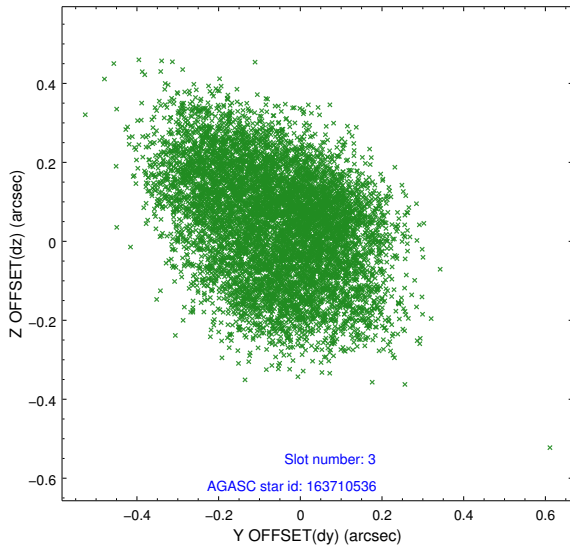
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	3703	-0.142	-0.018	0.011	0.016	0.000000	0.000000	-773.72	-1737.65
1	FID		ACIS-S-4	7.07	3703	0.286	0.074	0.009	0.019	0.000000	0.000000	2139.85	170.62
2	FID		ACIS-S-5	7.10	3702	-0.177	-0.046	0.010	0.016	0.000000	0.000000	-1826.21	164.50
3	GUIDE	used	163710536	9.63	7391	-0.056	0.057	0.214	0.326	58.291310	15.193722	2216.12	-1791.62
4	GUIDE	used	163713296	9.84	7391	0.115	-0.101	0.227	0.374	58.959374	16.142769	-165.42	1578.60
5	GUIDE	used	163713896	9.90	7397	-0.066	-0.005	0.162	0.280	59.097214	16.255464	-379.38	2167.25
6	GUIDE	used	163714192	8.91	7396	-0.100	-0.075	0.122	0.181	59.221347	15.536998	2194.30	1665.85
7	GUIDE	used	163717336	9.35	7364	0.108	0.143	0.149	0.246	58.167927	15.974732	-564.40	-1196.40

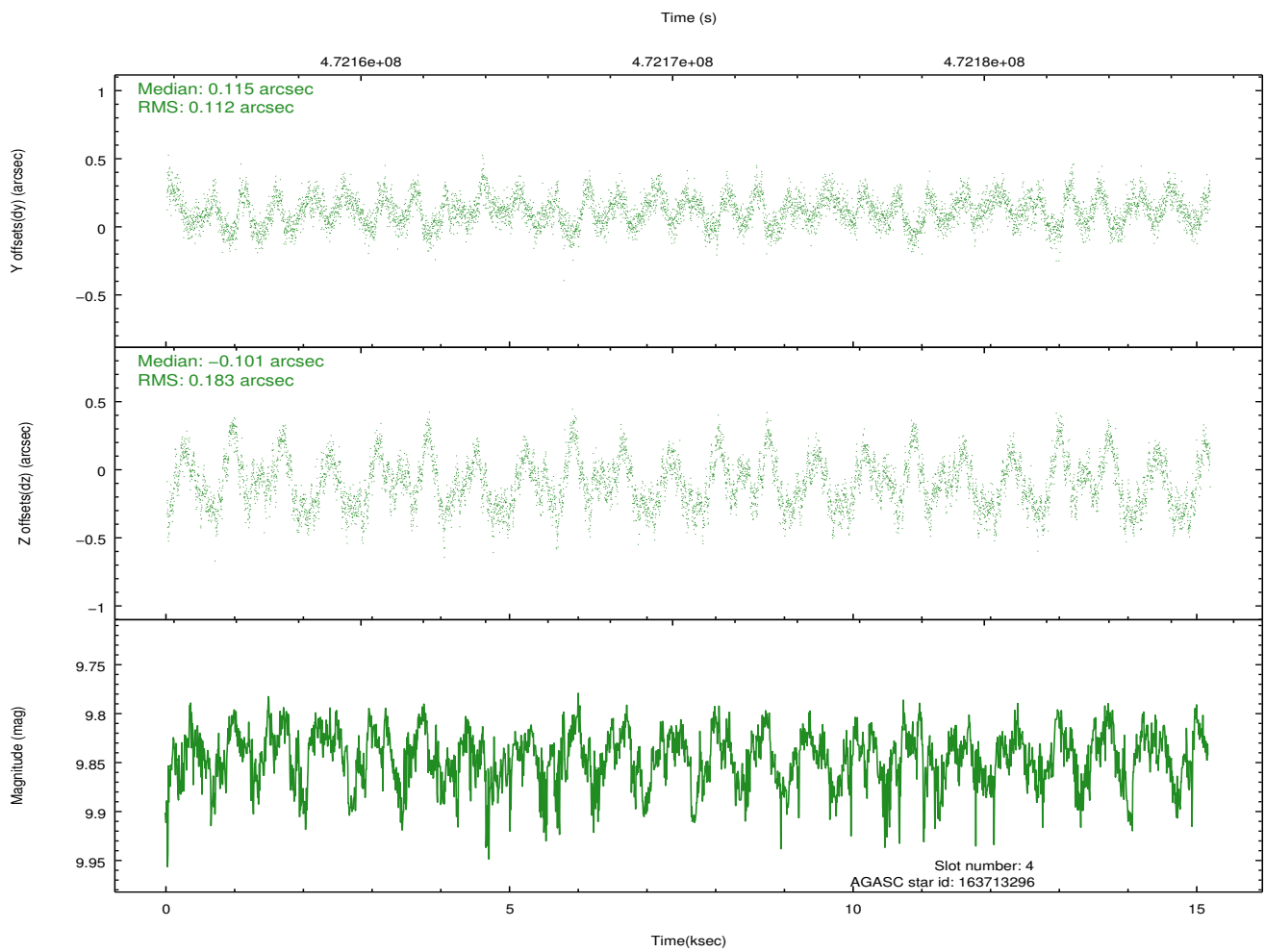
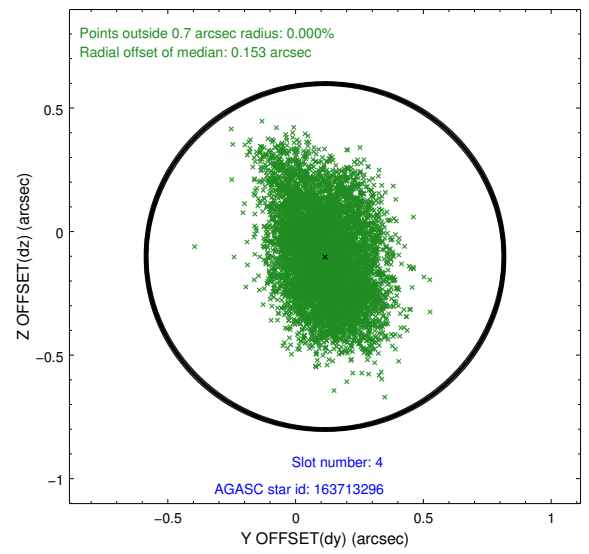
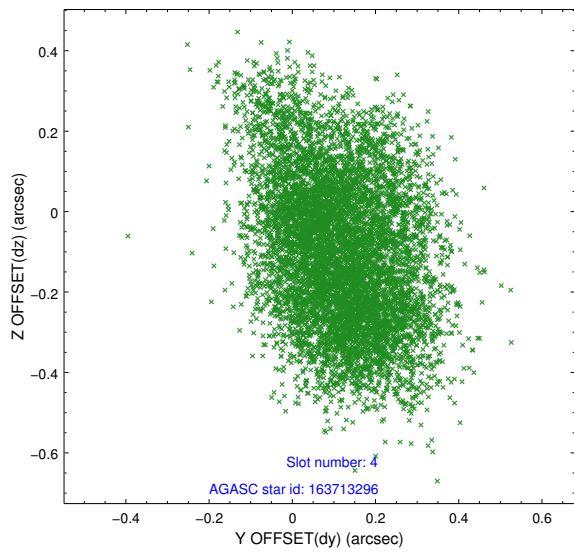
∞

2.4 Star Slots

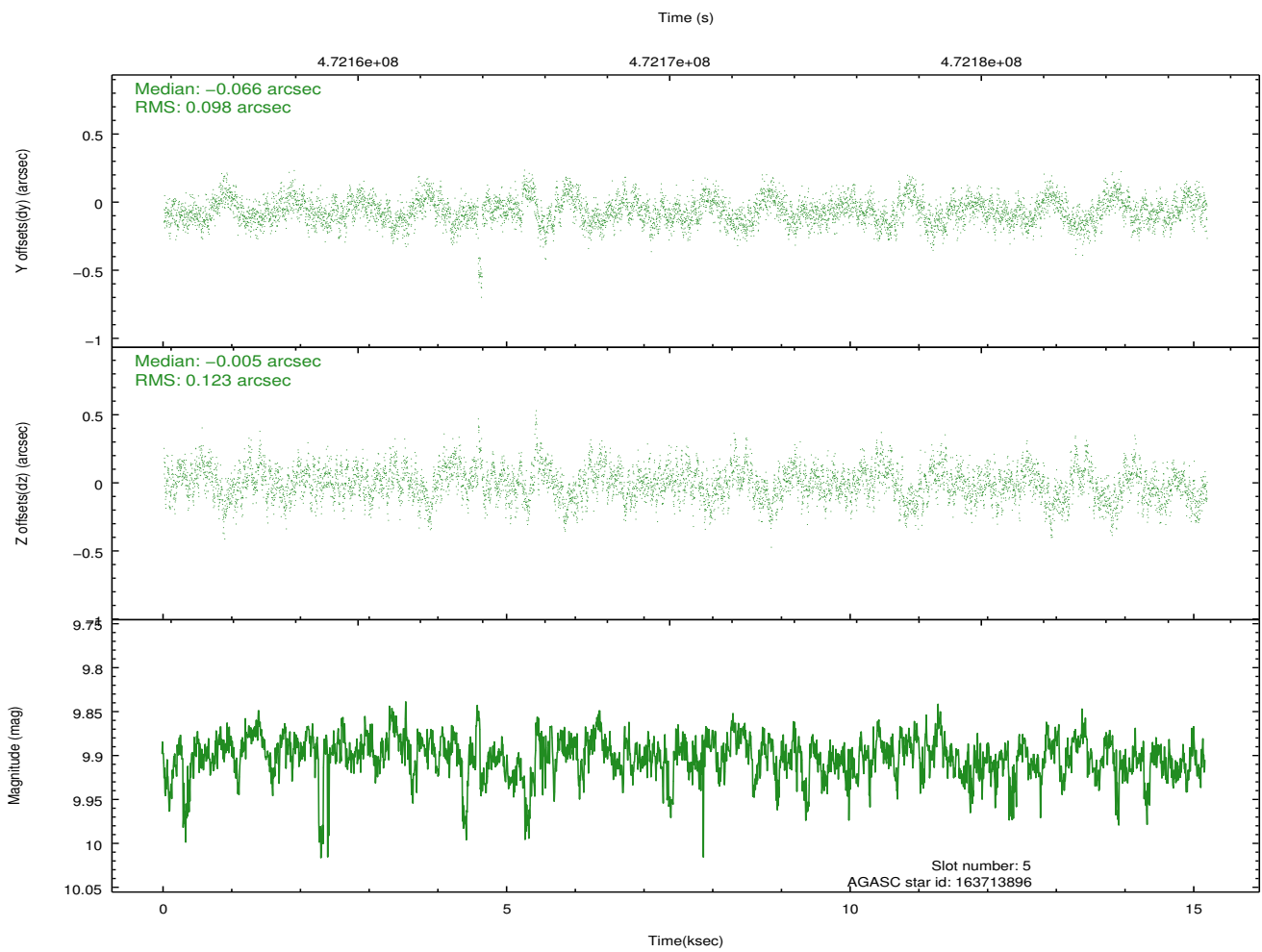
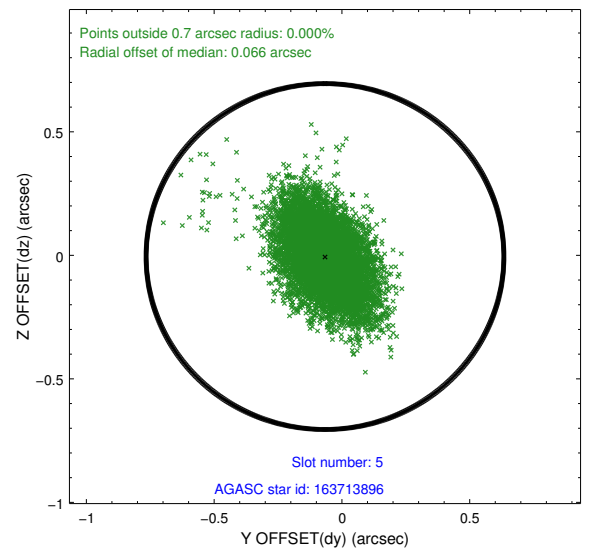
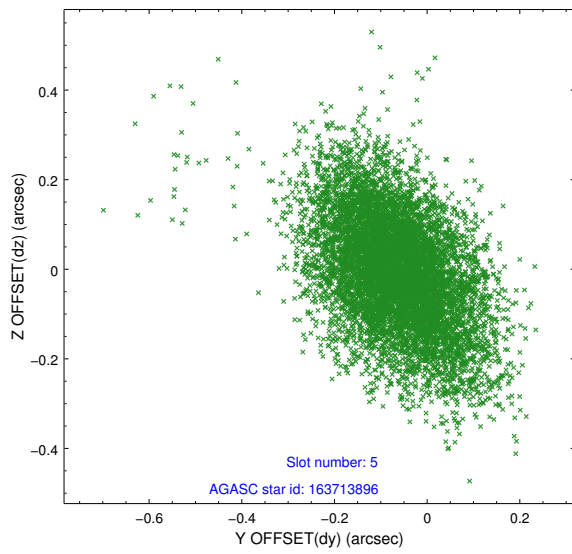
2.4.1 Slot 3



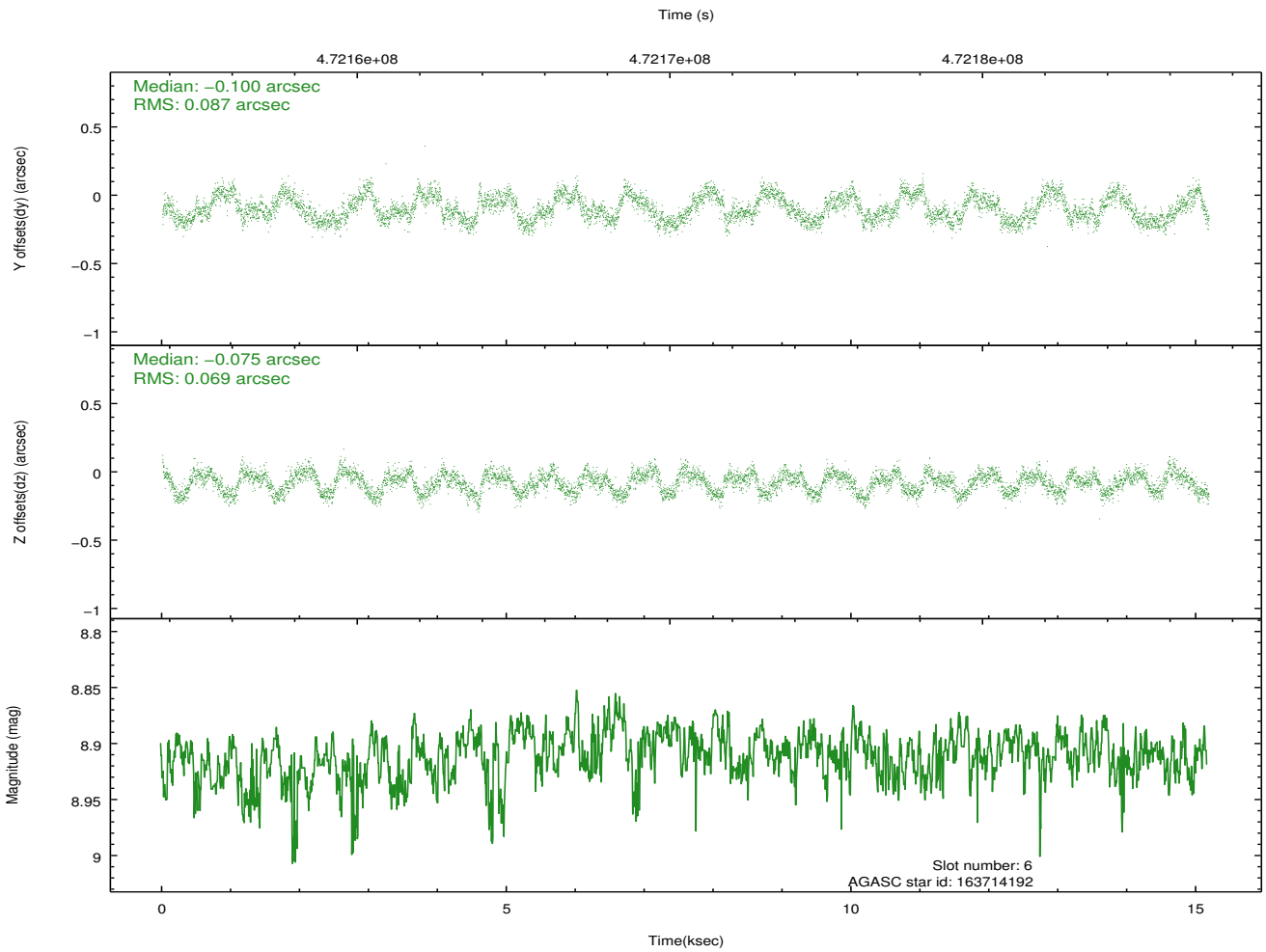
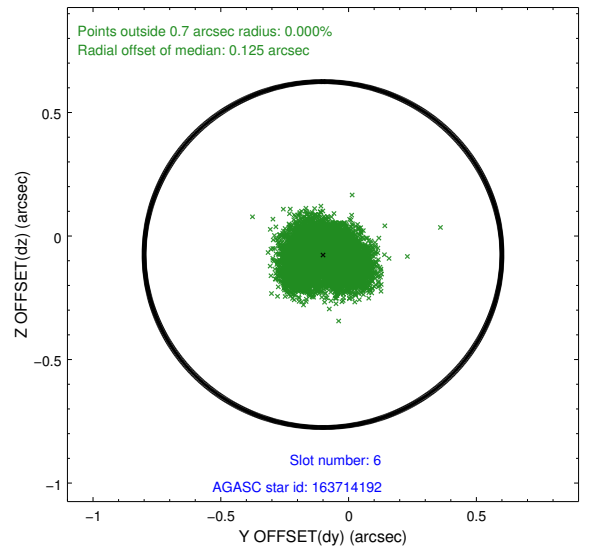
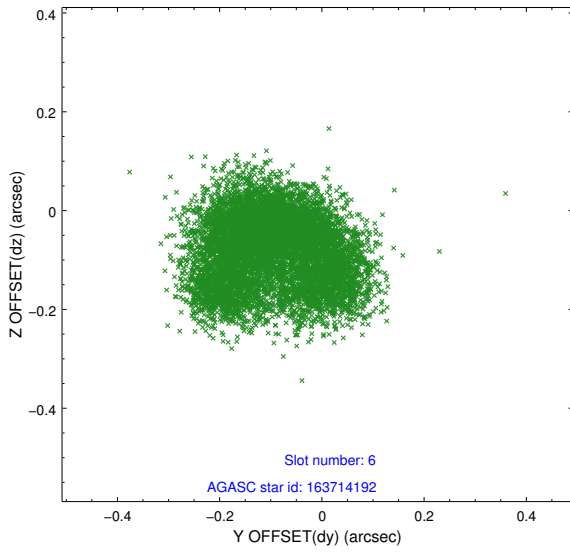
2.4.2 Slot 4



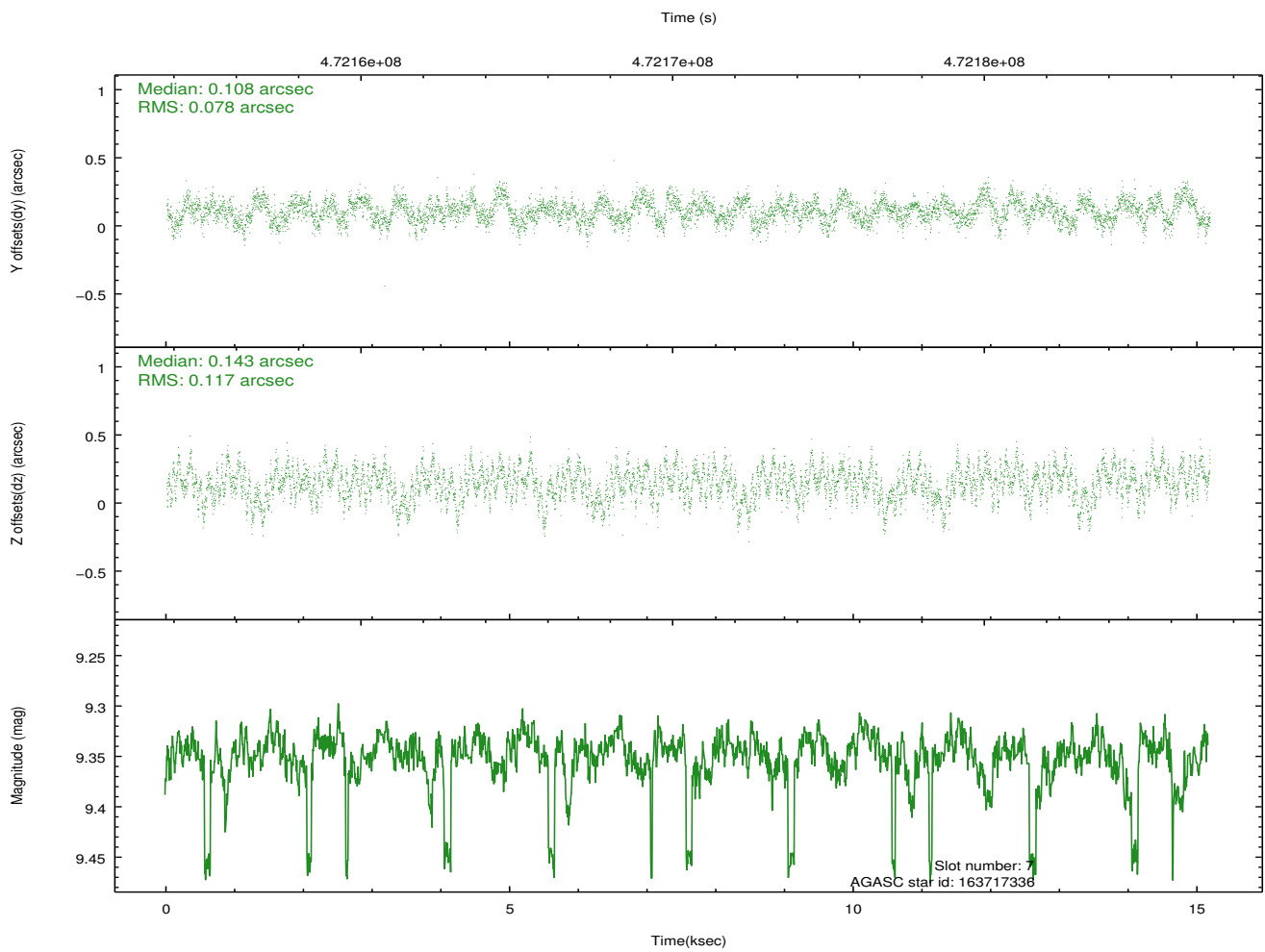
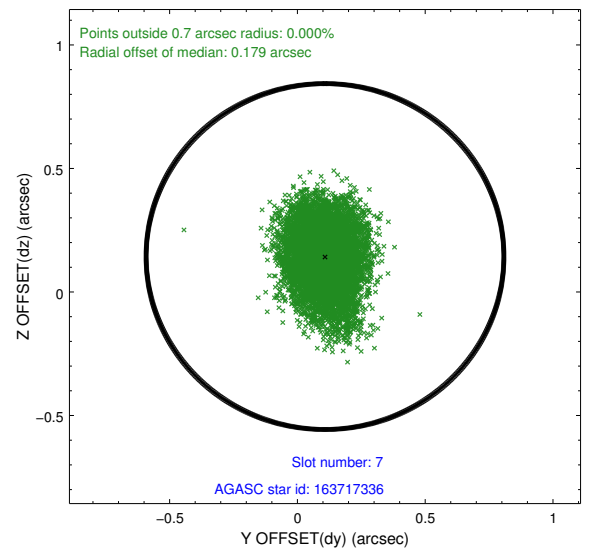
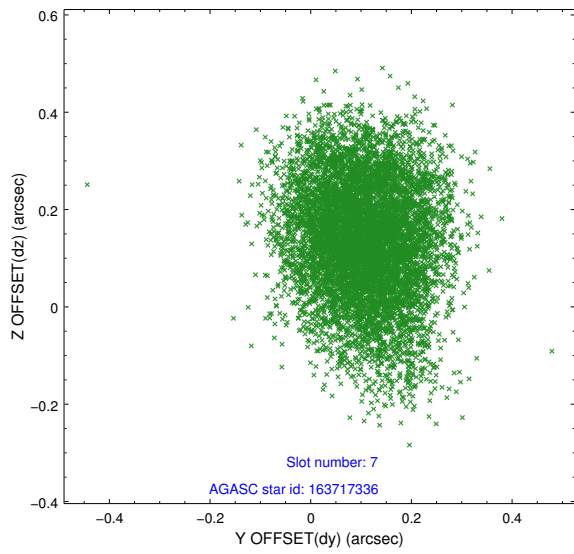
2.4.3 Slot 5



2.4.4 Slot 6

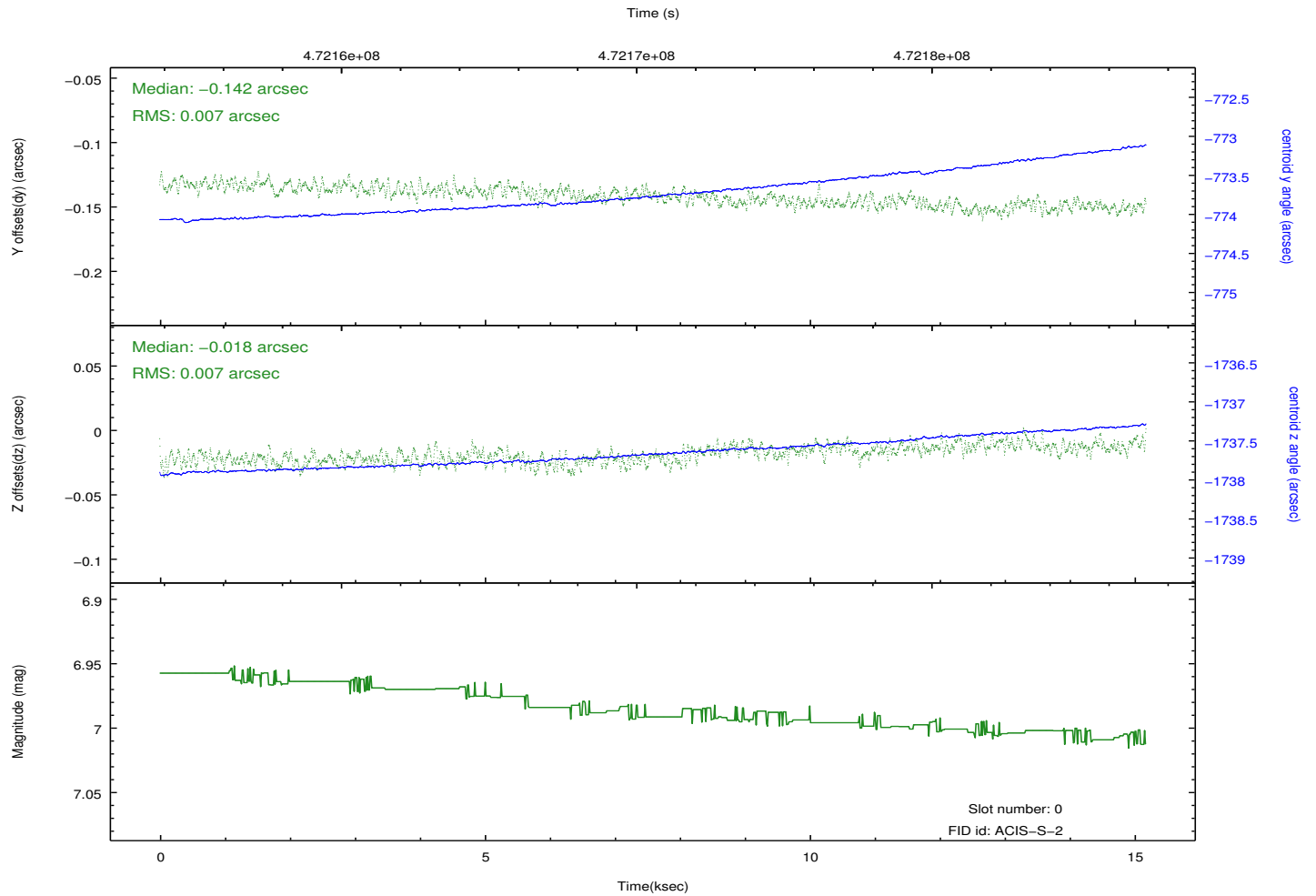
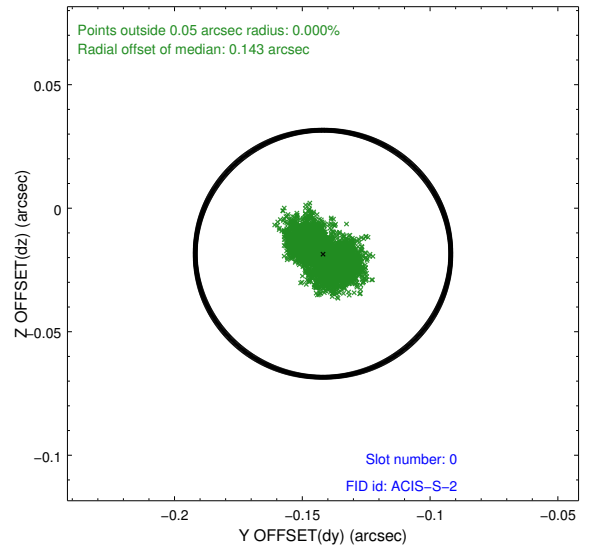
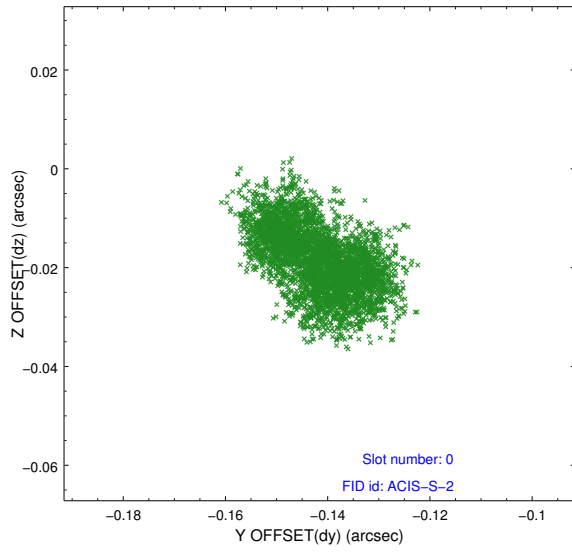


2.4.5 Slot 7

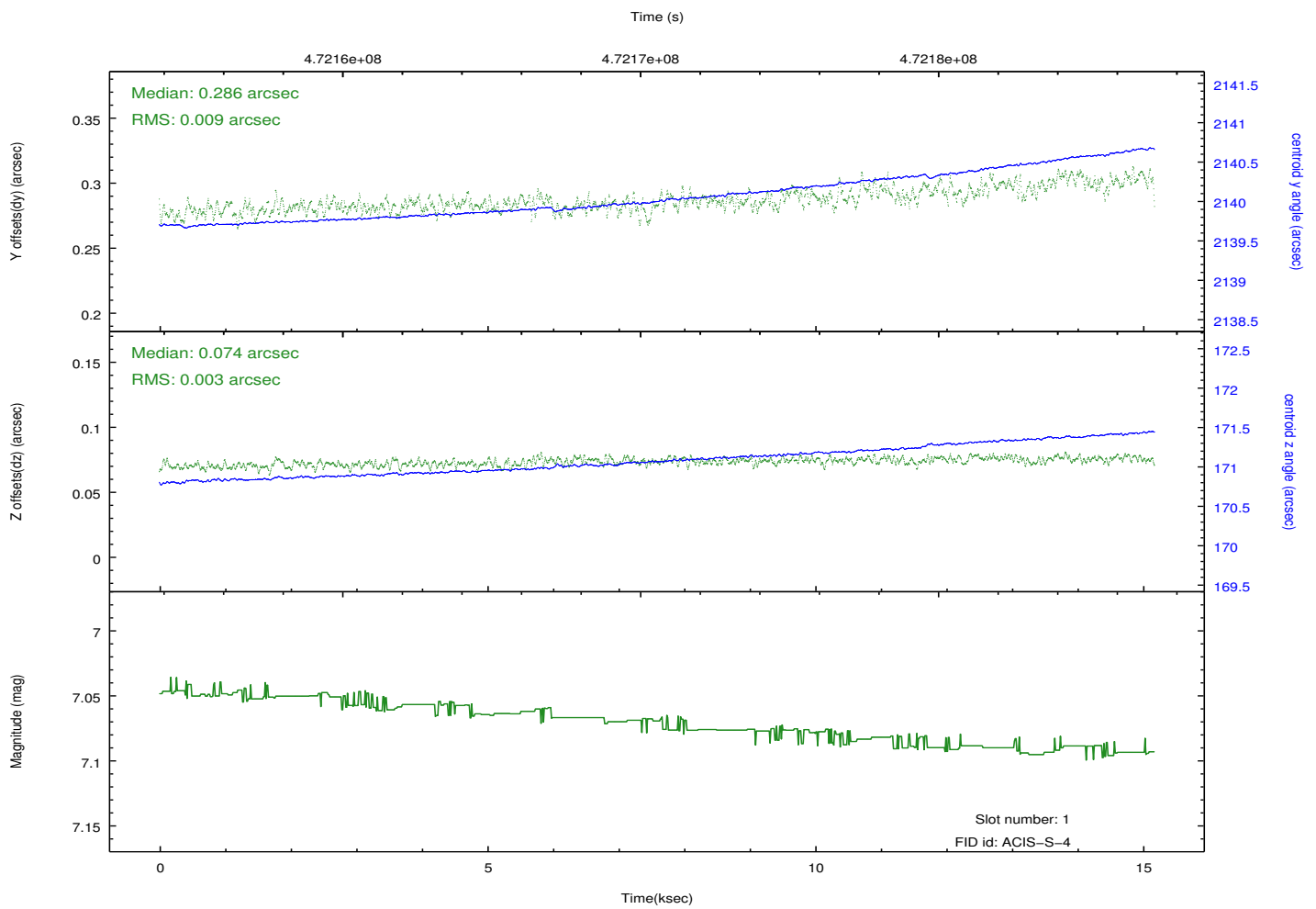
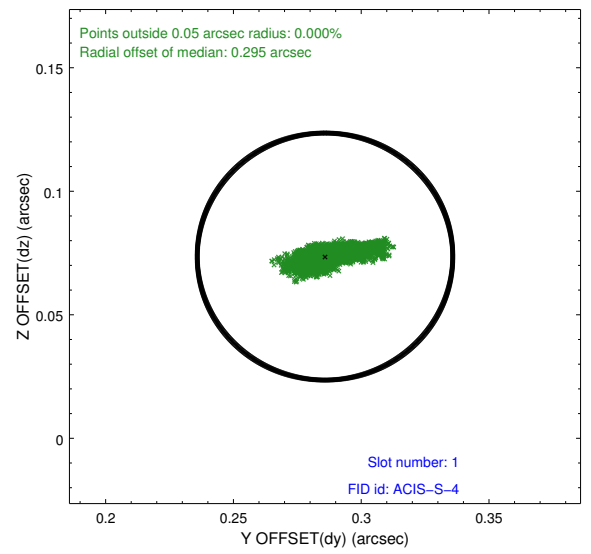
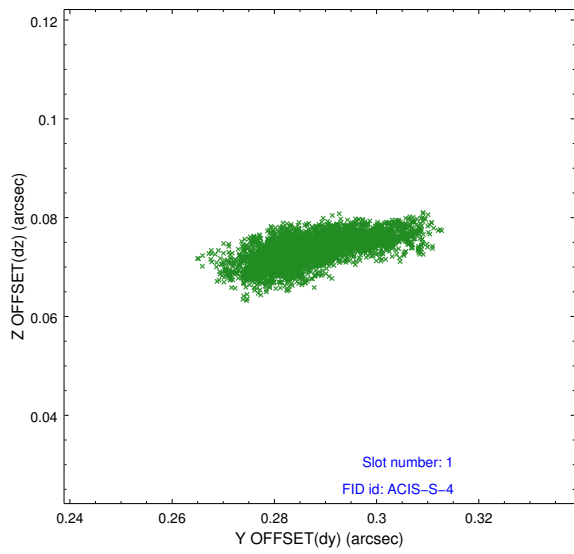


2.5 FID Slots

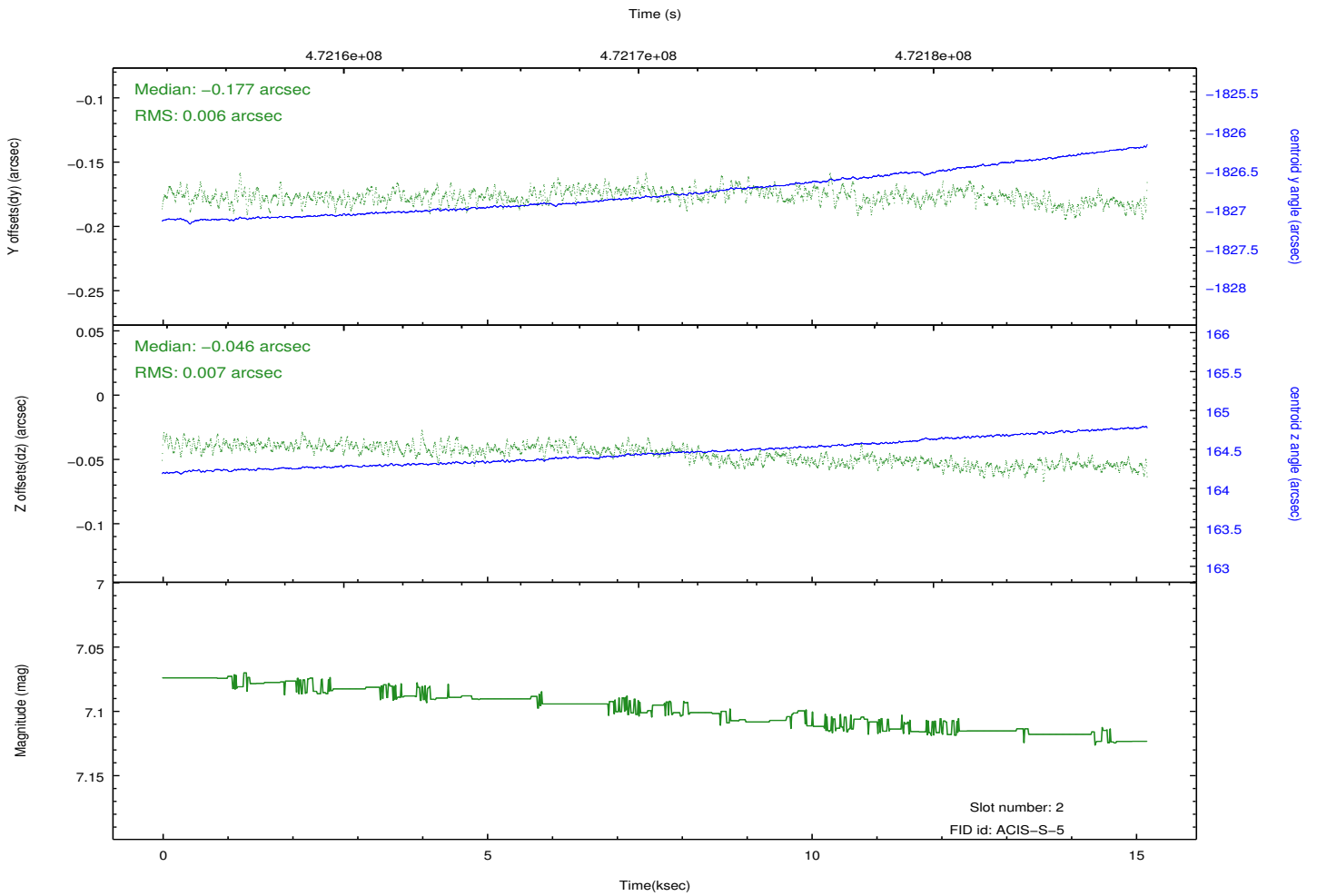
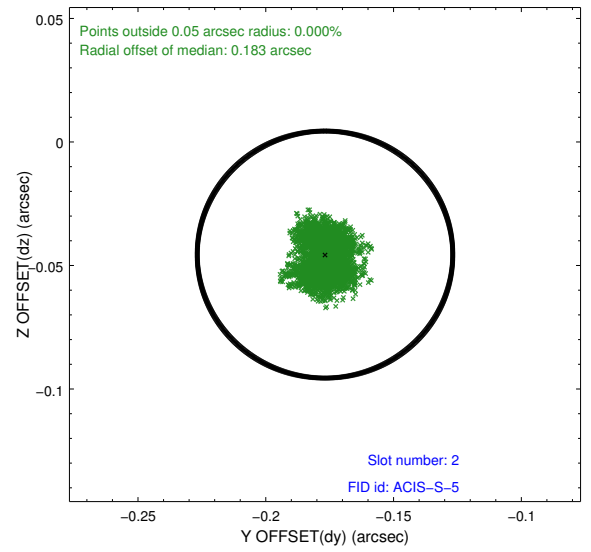
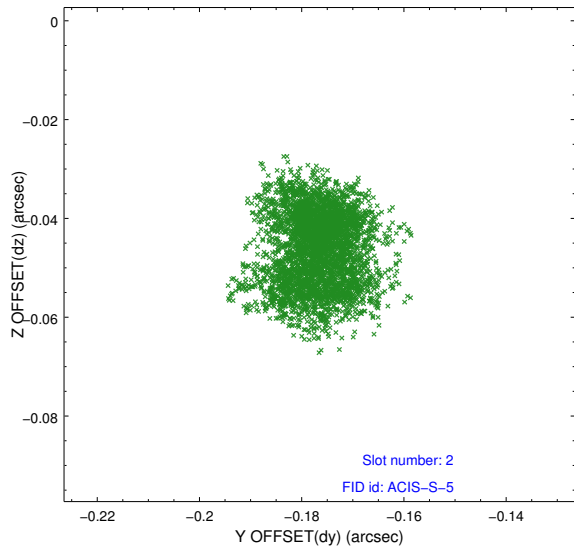
2.5.1 Slot 0



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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.068465707064

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.