

V&V Reference Report

L2 ASCDS Version : 10

Observation 15055 - L2 Version 2
Chandra X-Ray Center

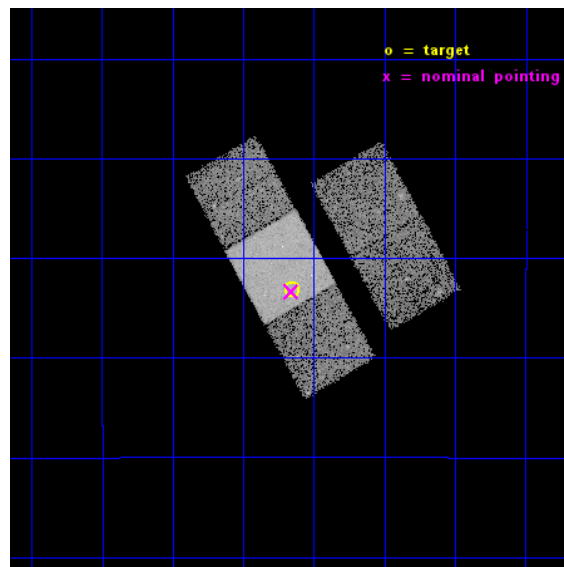
L2 Processing Date : Dec 3 2014

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1 Front

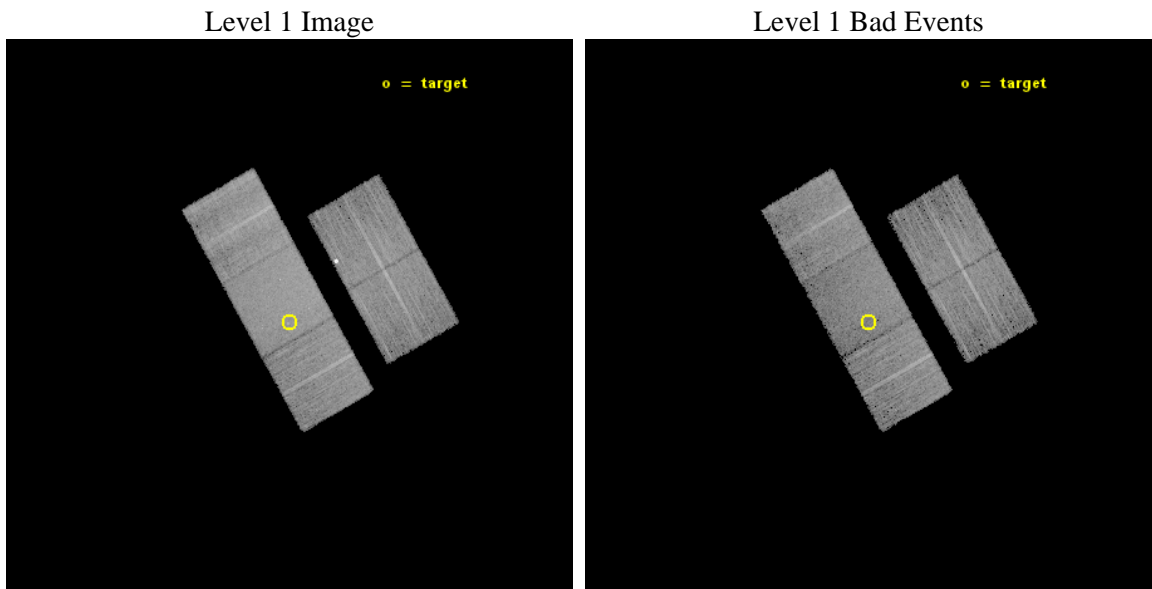
seq_num	702862	Sequence number
obs_id	15055	Observation id
title	C-GOALS: The Chandra-RBGS Survey of a Complete Sample of Major-Merger LIRGs	Proposal title
observer	Professor David Sanders	Principal investigator
object	IRAS F16399-0937	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	250.663333	Observer's specified target RA [deg]
dec_targ	-9.719722	Observer's specified target Dec [deg]
ra_nom	250.66475195413	Nominal RA [deg]
dec_nom	-9.7224046613892	Nominal Dec [deg]
roll_nom	240.5451623822	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15068.202978075	Sum of GTIs [s]
livetime	14871.325813116	Livetime [s]
ontime2	15068.038818061	Sum of GTIs [s]
ontime3	15068.120898068	Sum of GTIs [s]
ontime6	15068.161938071	Sum of GTIs [s]
ontime7	15068.202978075	Sum of GTIs [s]
ontime8	15068.079858065	Sum of GTIs [s]
l2events	73431	Number of level 2 events



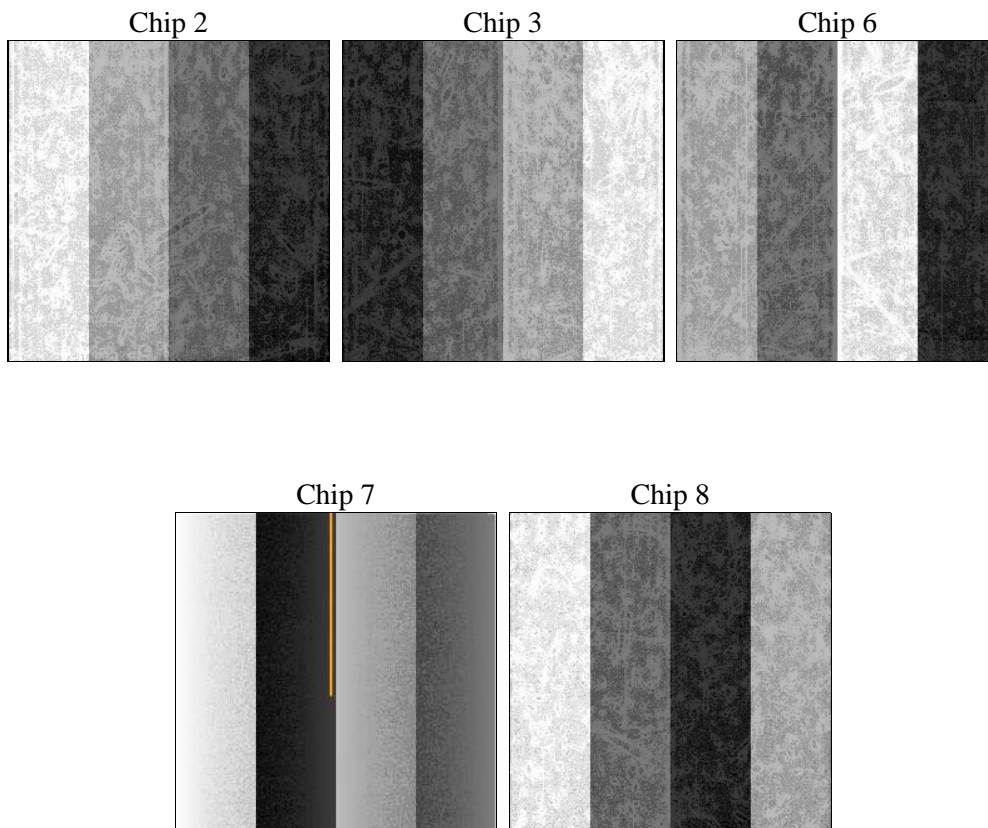
2 OBI

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	15068.202978075	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	15068.038818061	Sum of GTIs [s]
date	2014-12-04T00:56:59	Date and time of file creation	ontime3	15068.120898068	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15068.161938071	Sum of GTIs [s]
			ontime7	15068.202978075	Sum of GTIs [s]
			ontime8	15068.079858065	Sum of GTIs [s]
			l1events	415733	Number of level 1 events

2.1.4 Events

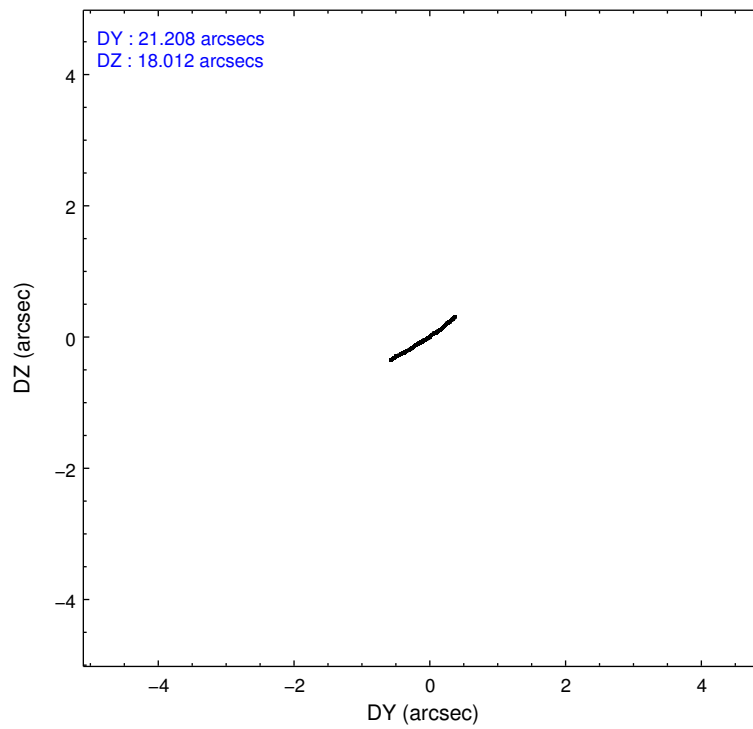
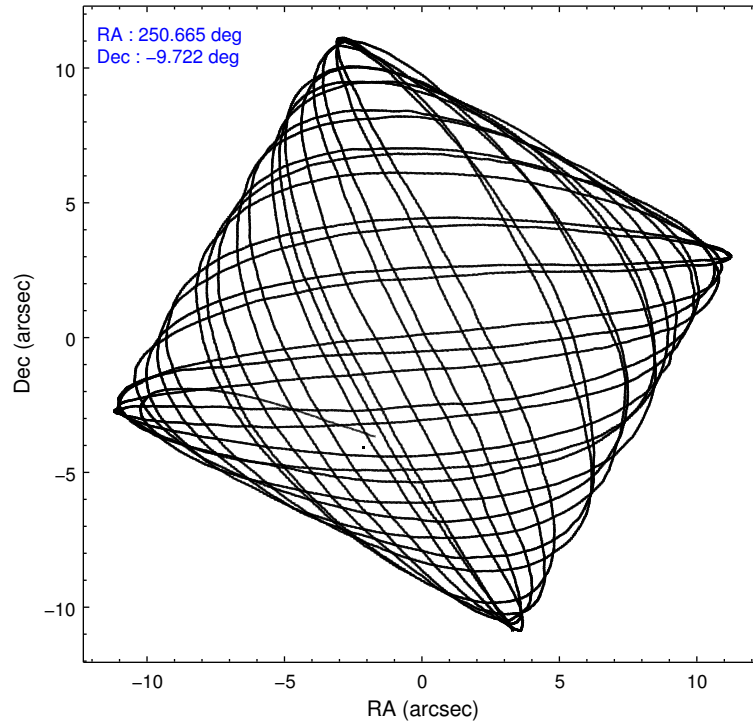
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	68969	75183	75199	100772	95610
rejected events	60898	62371	66217	56759	70737
rejected %	88%	82%	88%	56%	73%

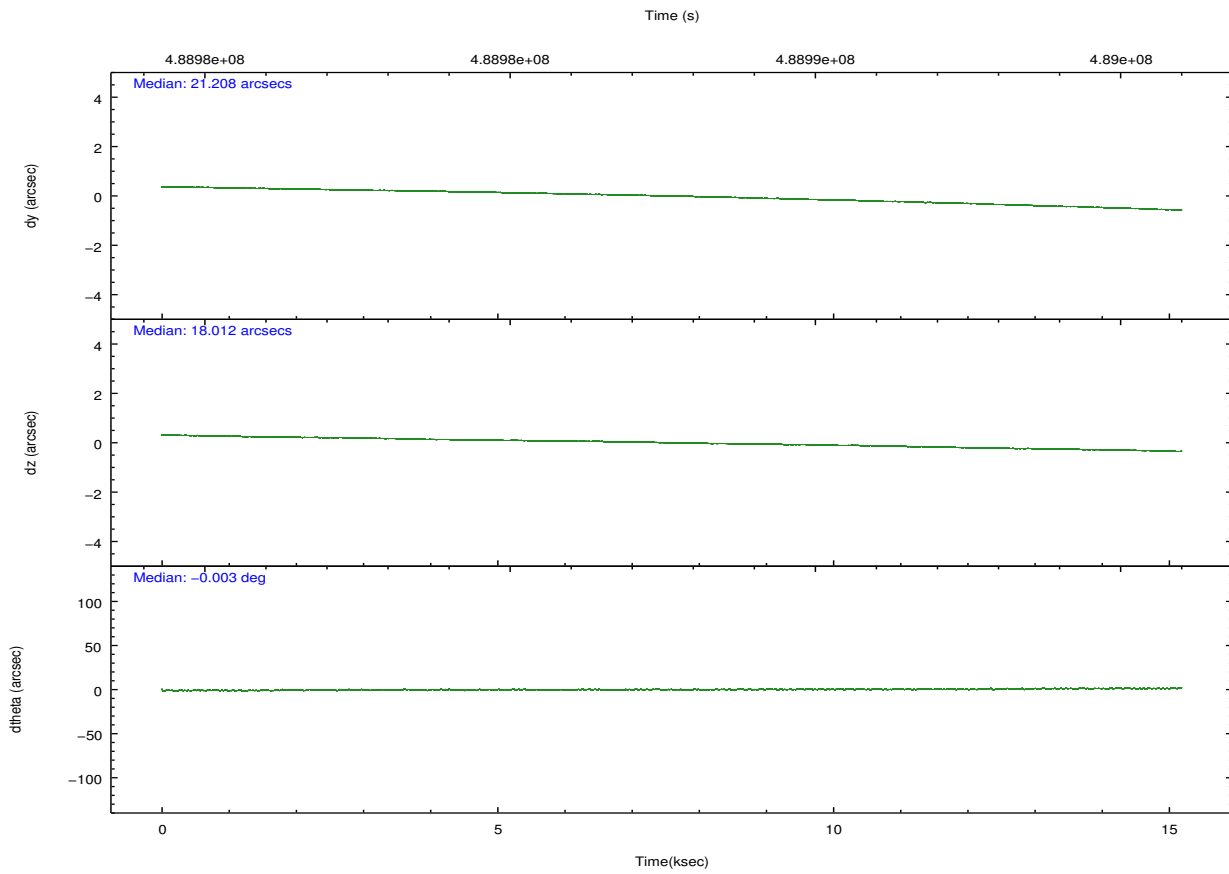
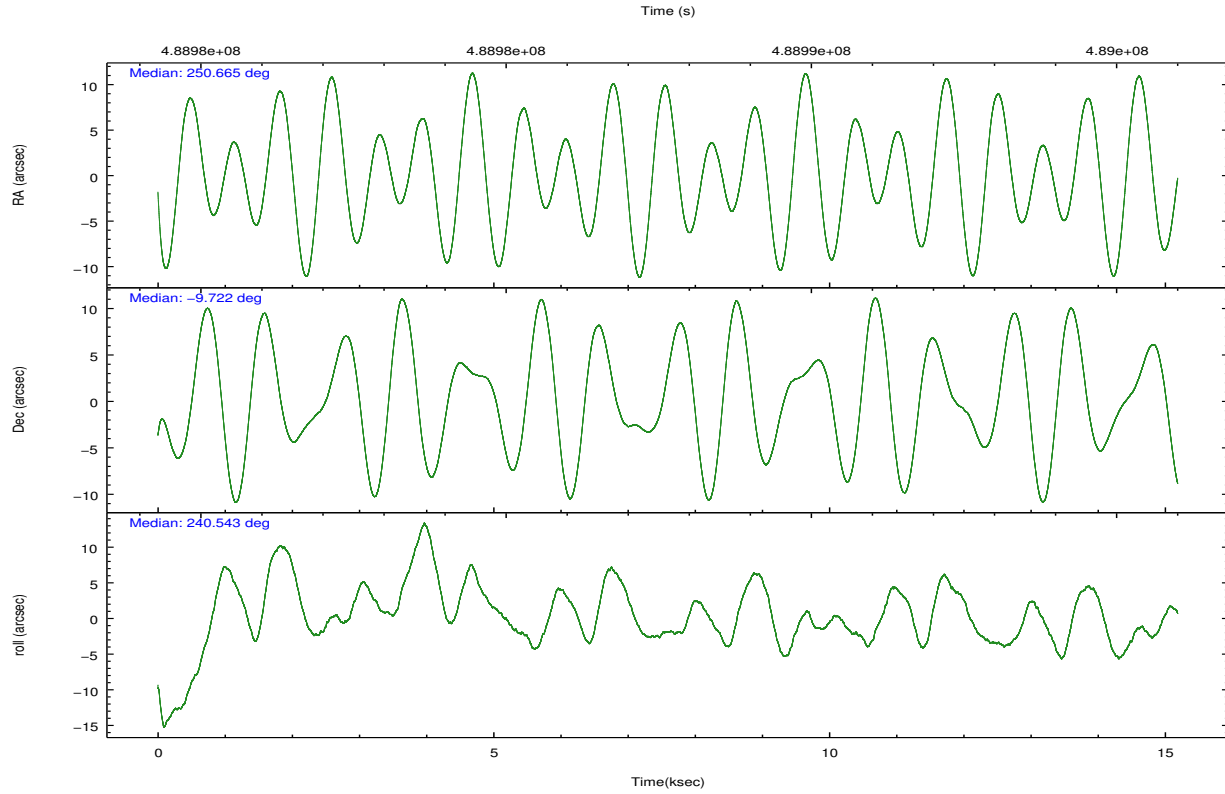
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3016	7473	3155	4197	7229
	4%	9%	4%	4%	7%
grade 1 events	41	60	39	84	64
	0%	0%	0%	0%	0%
grade 2 events	1893	1869	2016	8973	5935
	2%	2%	2%	8%	6%
grade 3 events	832	850	925	3754	2675
	1%	1%	1%	3%	2%
grade 4 events	811	857	896	3762	2509
	1%	1%	1%	3%	2%
grade 5 events	3063	3904	3899	10366	5551
	4%	5%	5%	10%	5%
grade 6 events	1522	1767	1995	23346	6559
	2%	2%	2%	23%	6%
grade 7 events	57791	58403	62274	46290	65088
	83%	77%	82%	45%	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	250.664131	250.6647519541279	CCD I2 on	O2	Y
[deg] Pointing Dec	-9.695058	-9.722404661389211	CCD I3 on	Y	Y
[deg] Pointing Roll	240.388422	240.5451623822001	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	488980248.184000	488979040.11017	CCD S5 on	N	N
Observation start date	2013-06-30T11:49:41	2013-06-30T11:30:40	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	488995248.184000	488996204.24861	On-chip summing requested	N	N
Observation end date	2013-06-30T15:59:41	2013-06-30T16:16:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





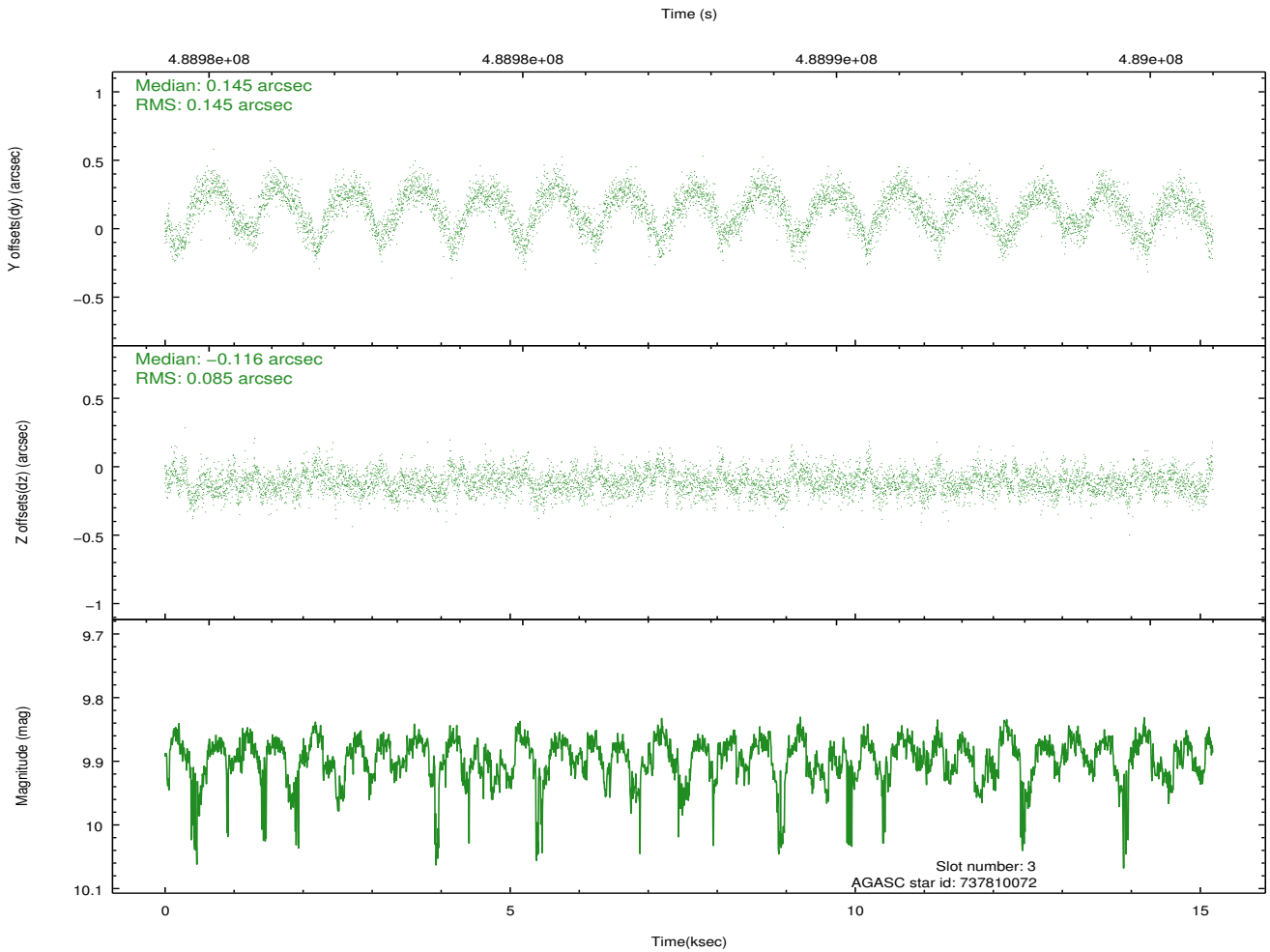
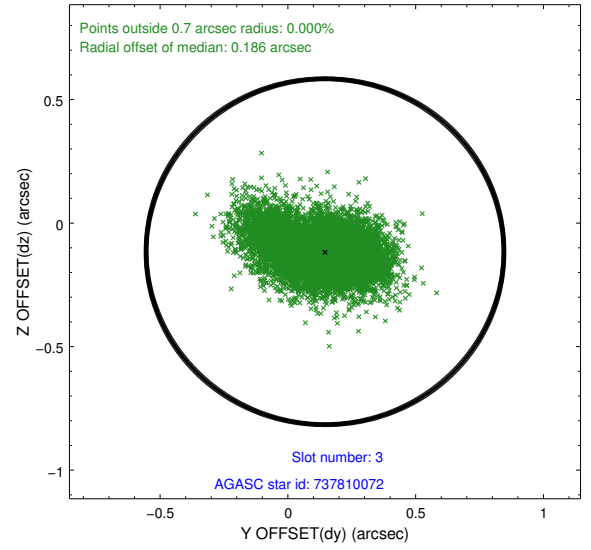
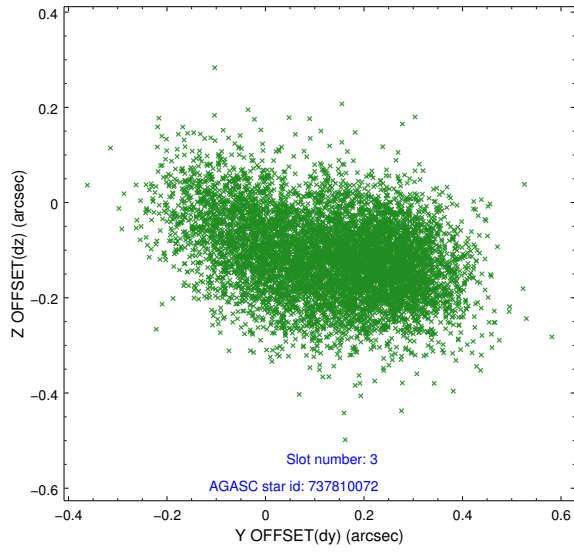
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	3704	-0.109	-0.056	0.008	0.013	0.000000	0.000000	-774.45	-1739.50
1	FID		ACIS-S-4	7.09	3703	0.243	0.067	0.007	0.013	0.000000	0.000000	2139.08	168.74
2	FID		ACIS-S-5	7.12	3704	-0.165	-0.003	0.008	0.015	0.000000	0.000000	-1826.93	162.75
3	GUIDE	used	737810072	9.89	7384	0.145	-0.116	0.175	0.298	251.159986	-9.293706	-2125.04	818.30
4	GUIDE	used	738199128	8.70	7405	-0.084	0.230	0.091	0.144	250.073538	-9.440497	241.58	-2274.81
5	GUIDE	used	738333088	9.50	7399	-0.181	-0.131	0.200	0.310	250.891884	-10.354629	1666.37	1874.71
6	GUIDE	used	738334352	9.60	7376	0.120	-0.015	0.189	0.290	251.066799	-9.769048	-472.90	1374.44
7	GUIDE	used	738334600	10.03	7361	-0.009	0.008	0.238	0.387	251.267105	-9.544707	-1525.48	1595.10

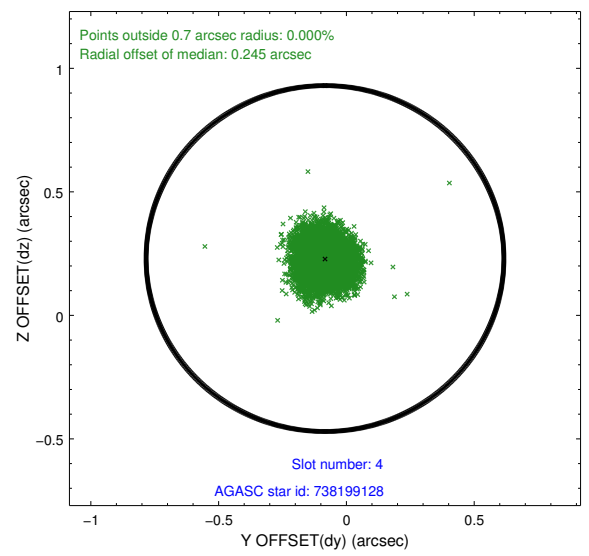
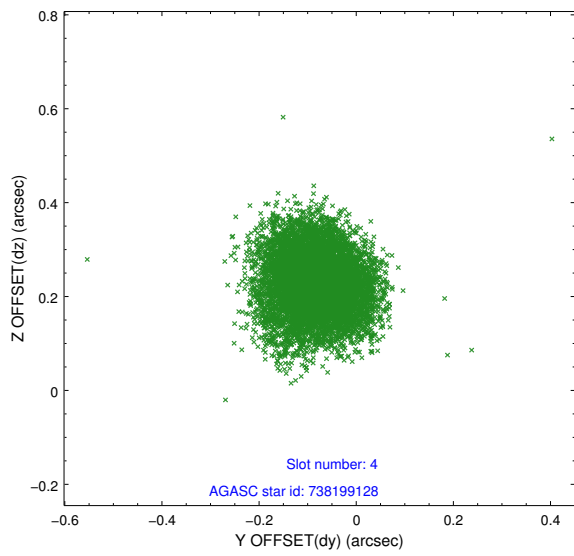
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2.4 Star Slots

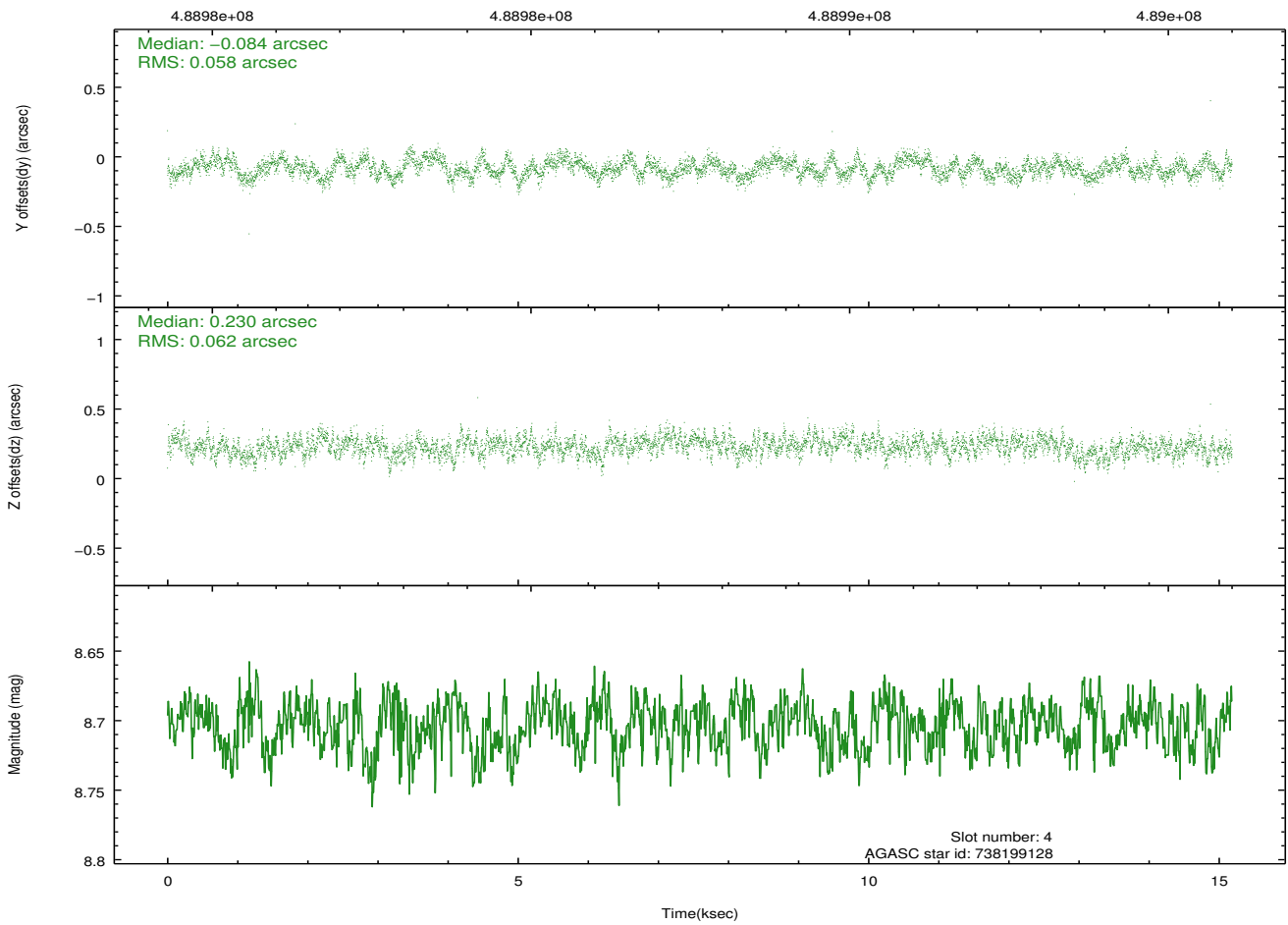
2.4.1 Slot 3



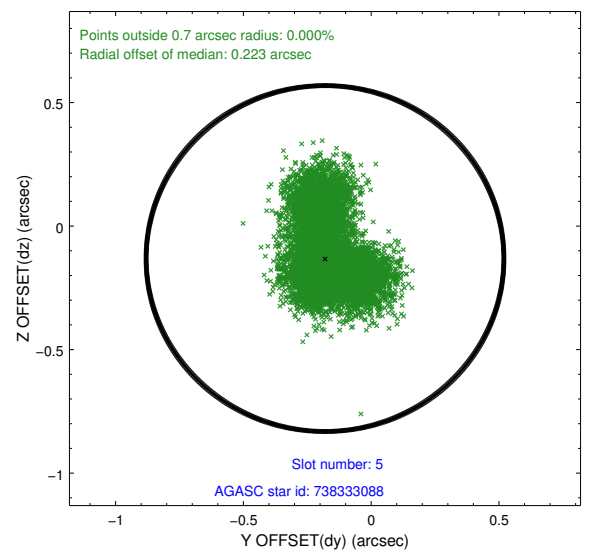
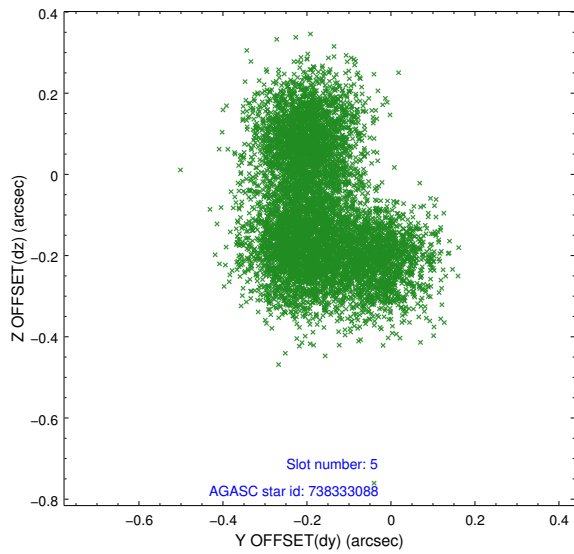
2.4.2 Slot 4



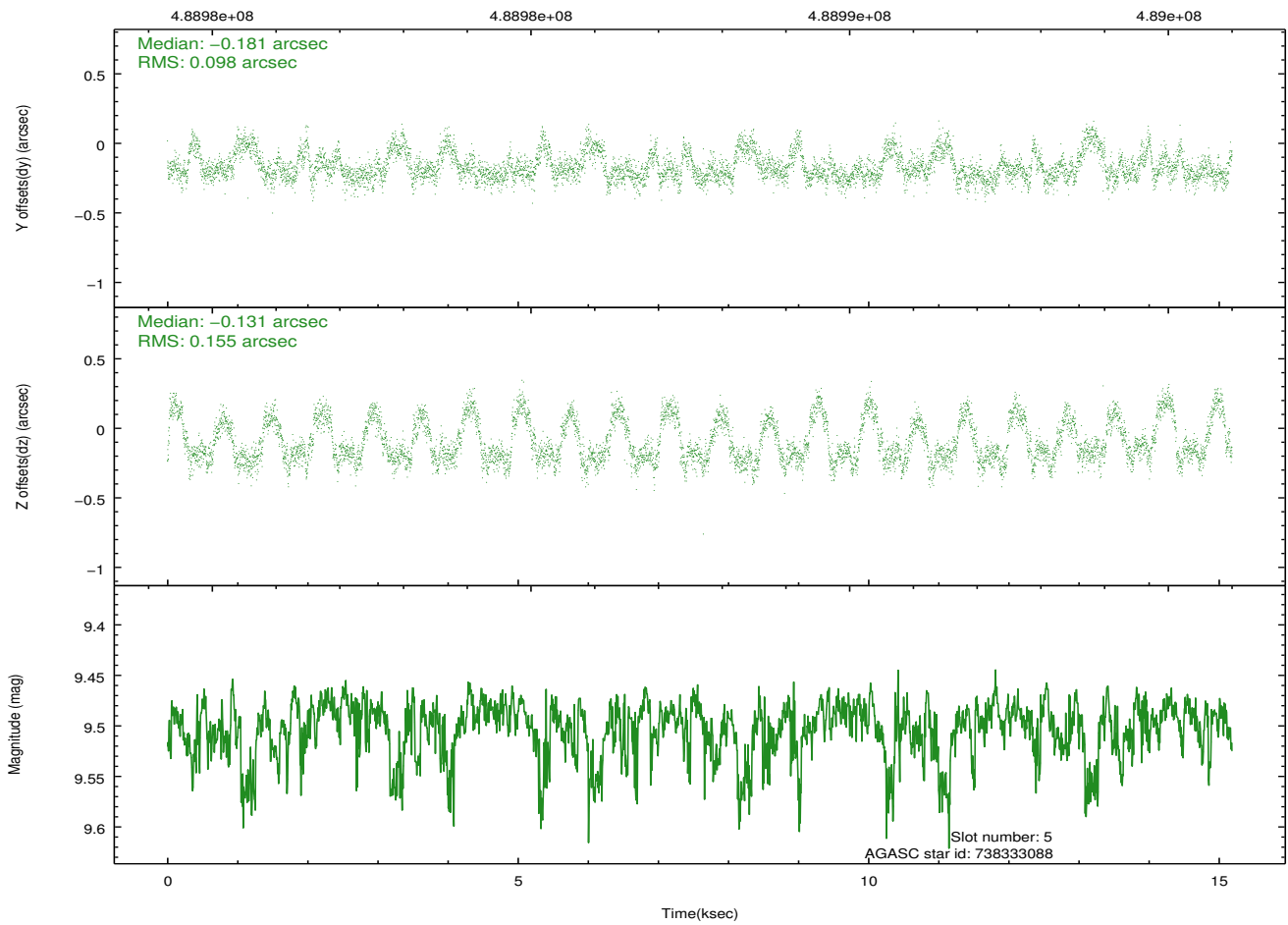
Time (s)



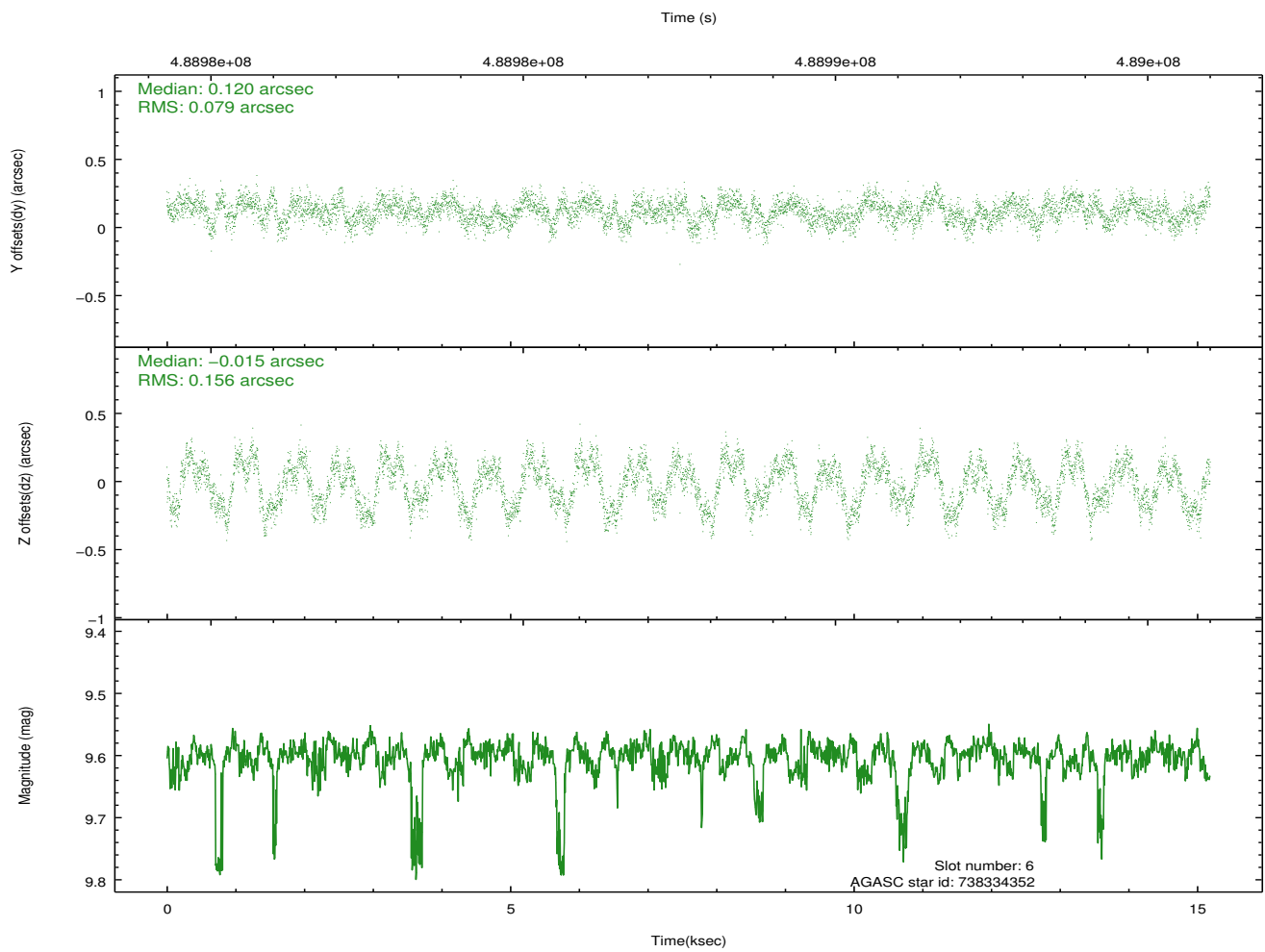
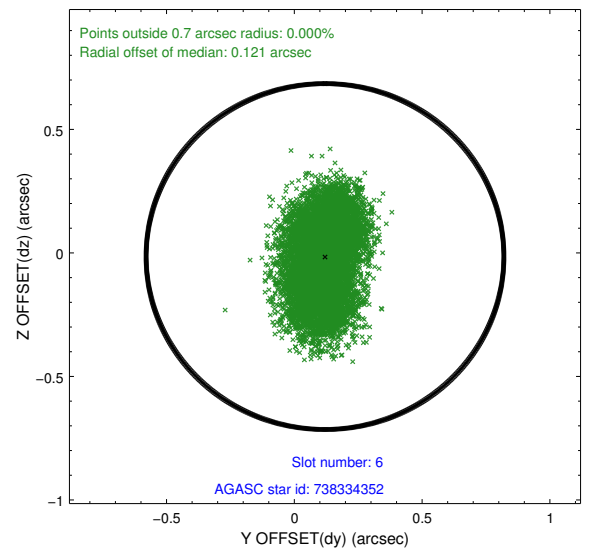
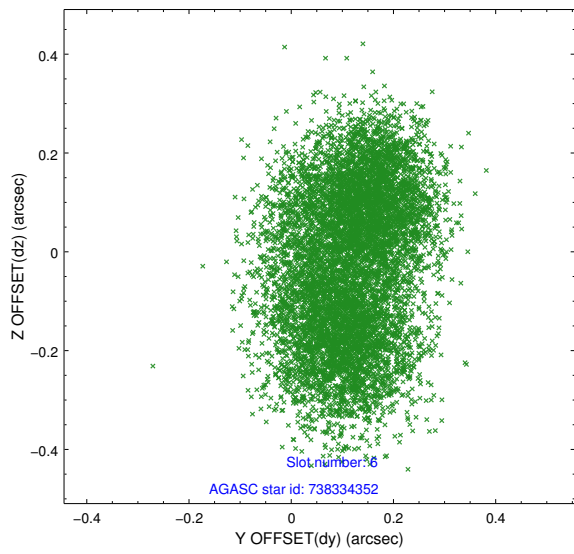
2.4.3 Slot 5



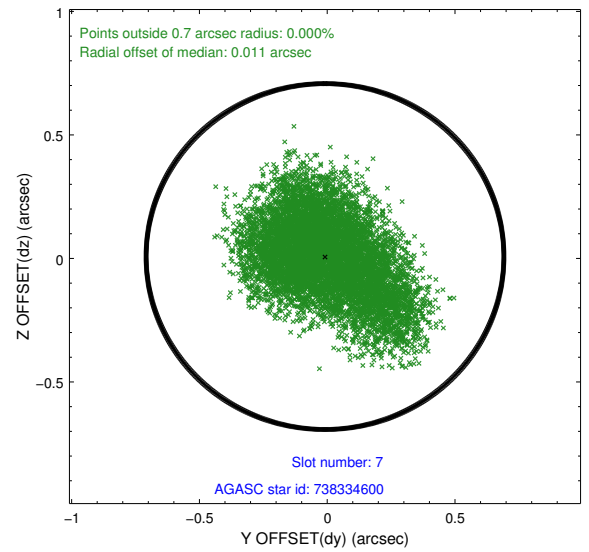
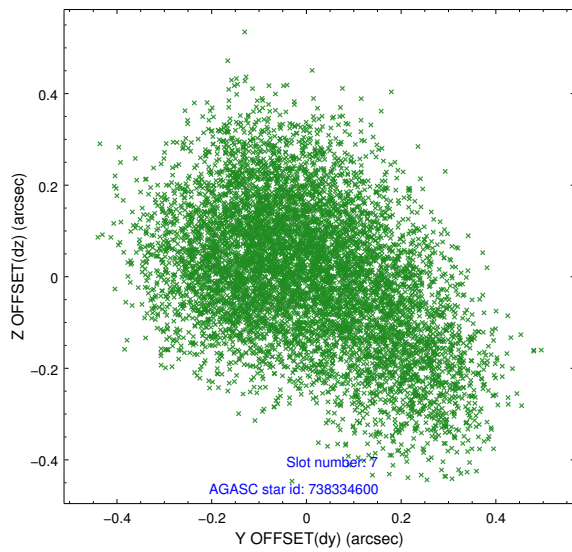
Time (s)



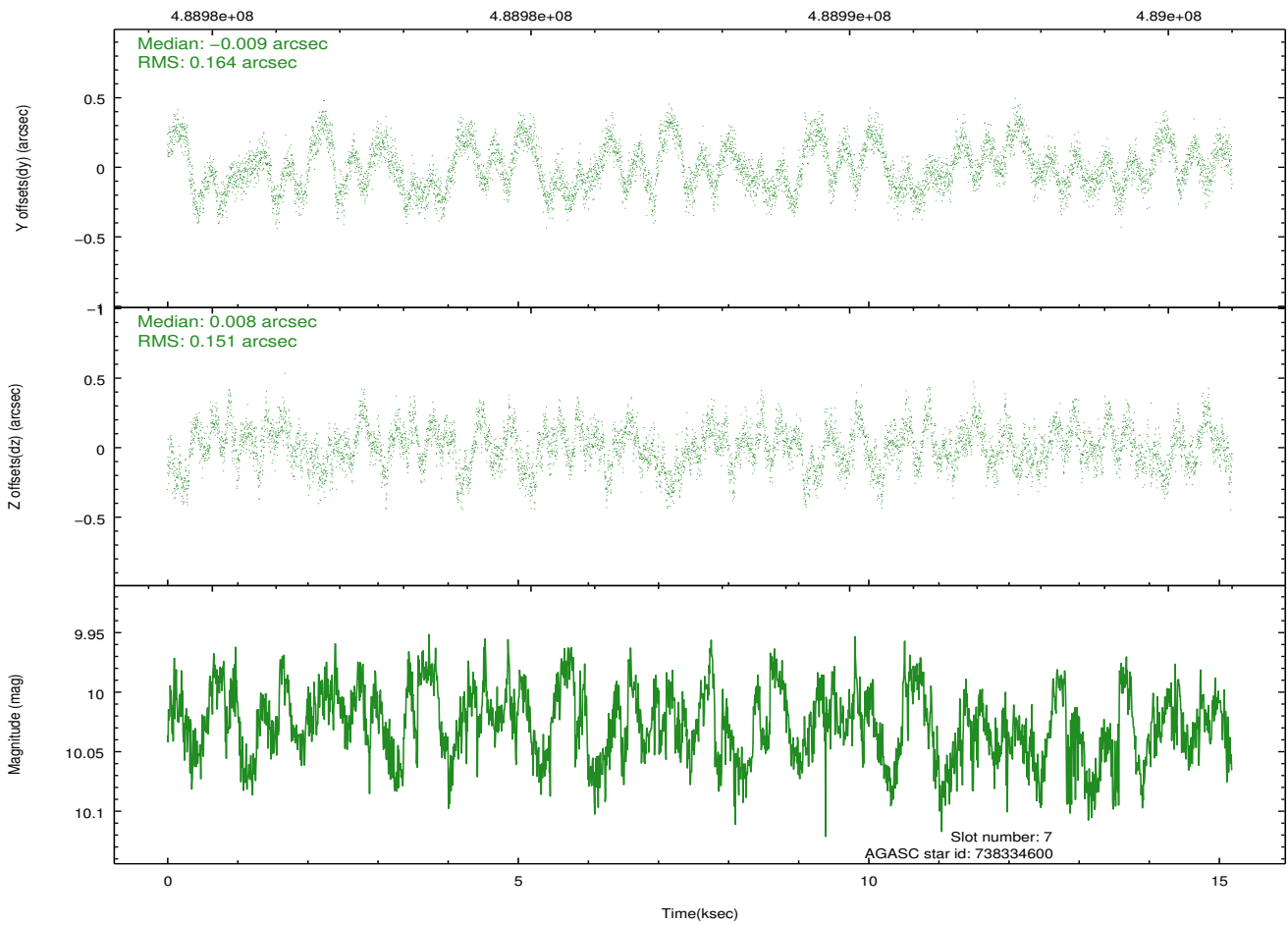
2.4.4 Slot 6



2.4.5 Slot 7

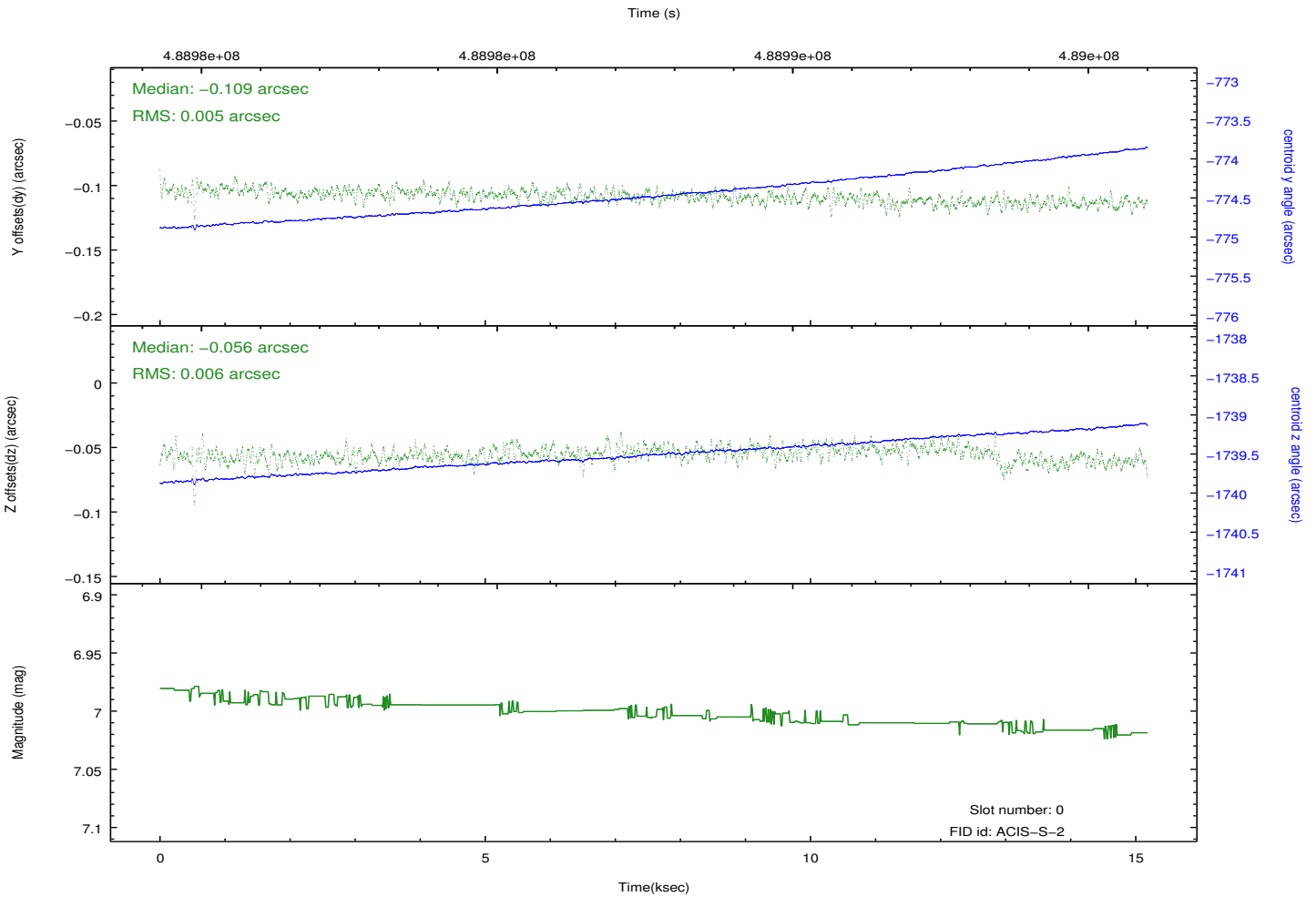
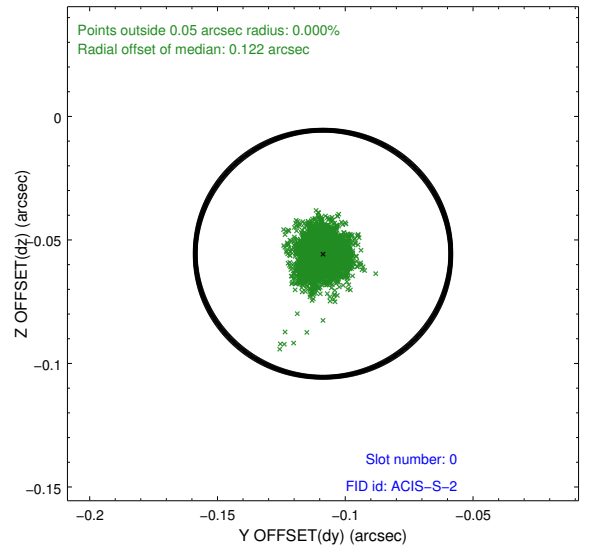
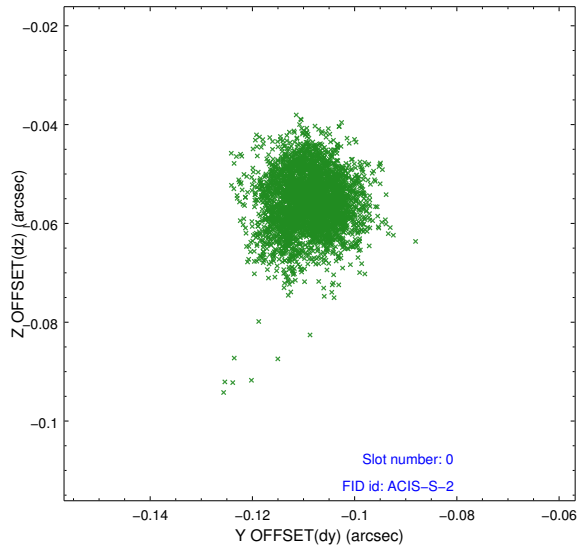


Time (s)

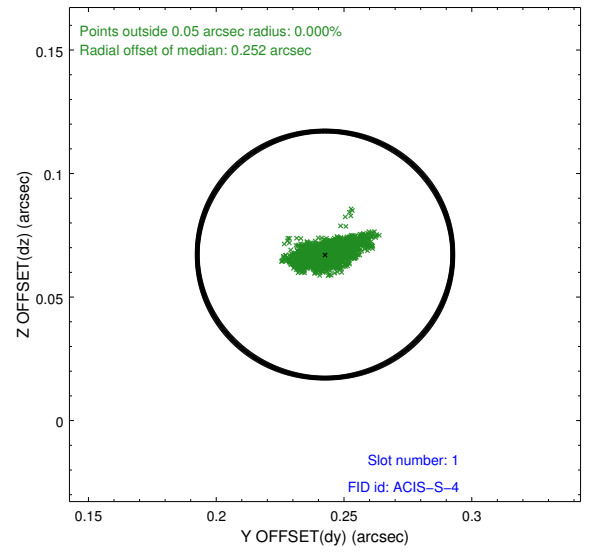
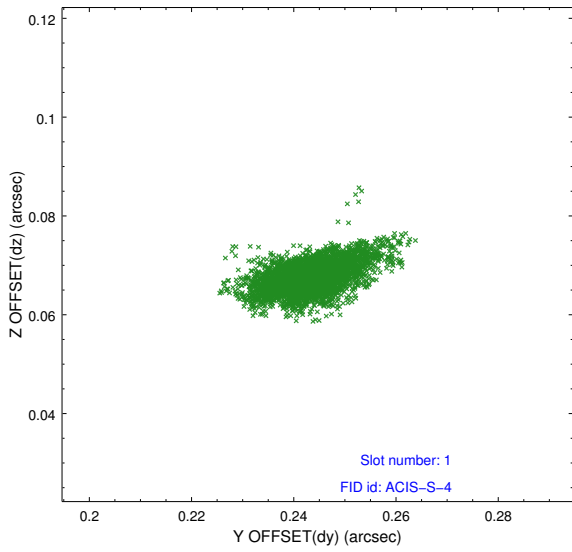


2.5 FID Slots

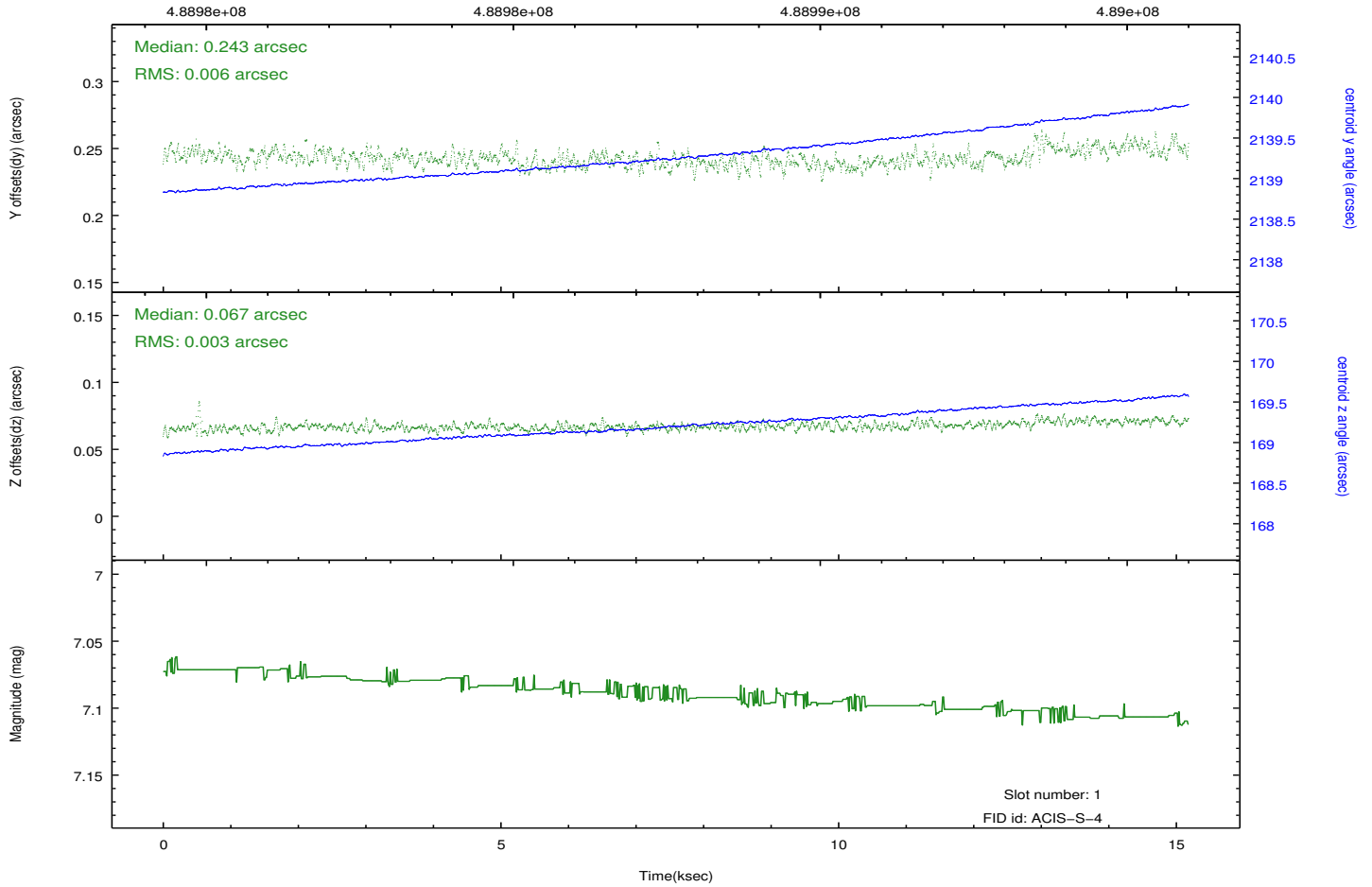
2.5.1 Slot 0



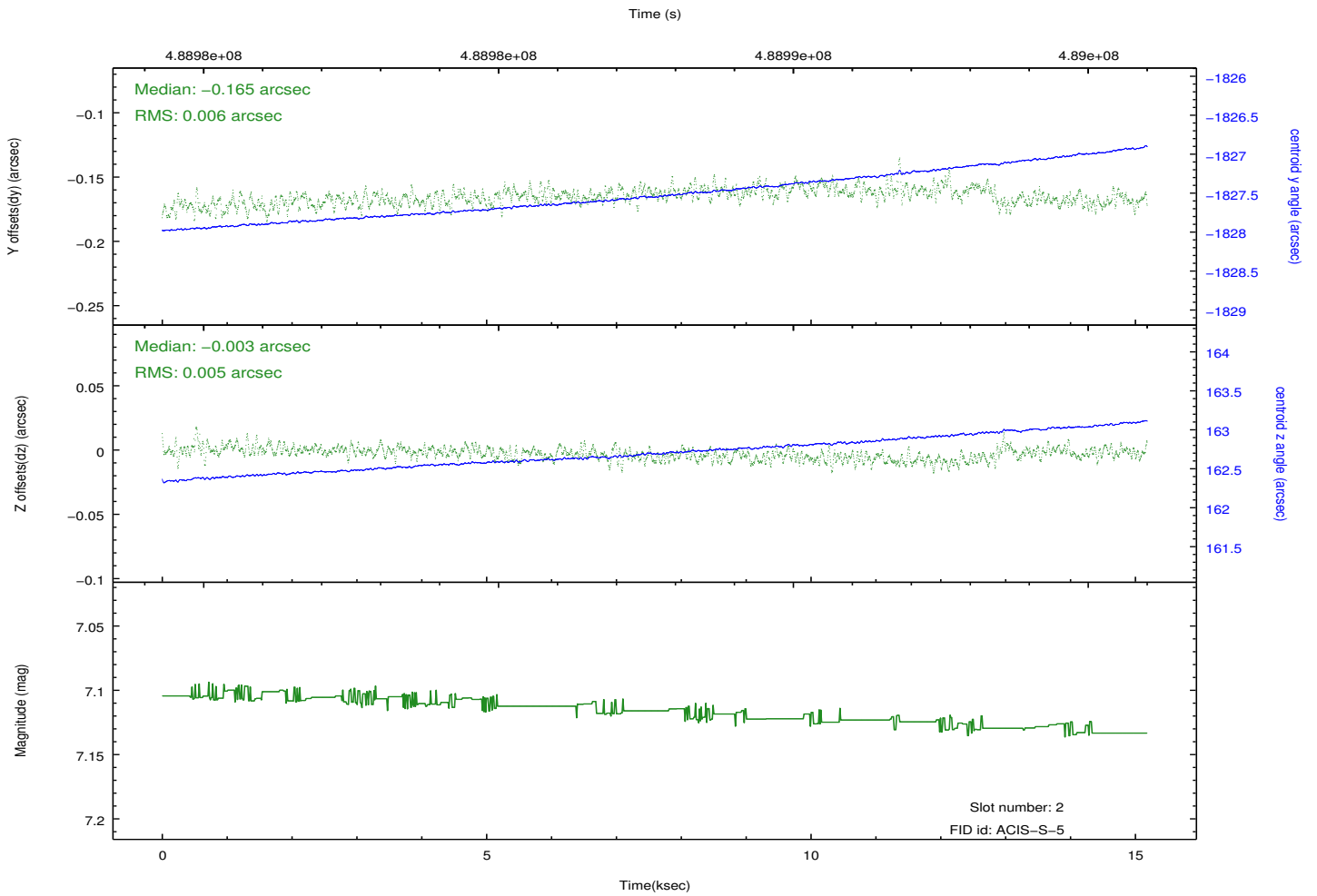
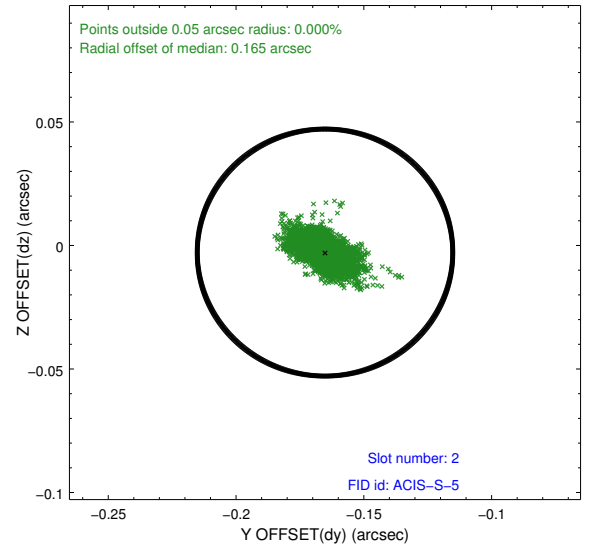
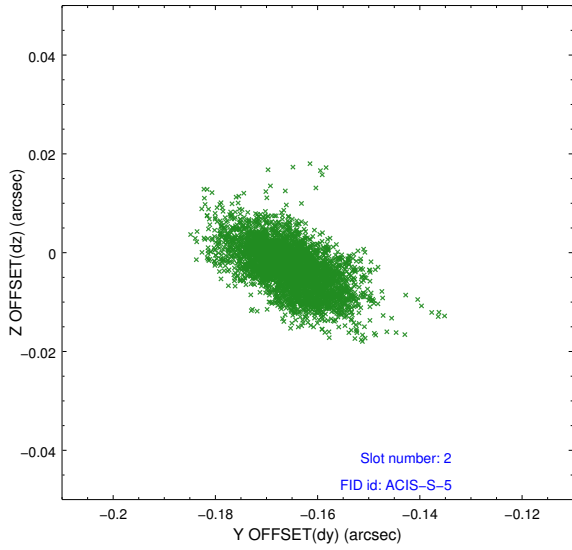
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.068202978075

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.