

V&V Reference Report

L2 ASCDS Version : 10

Observation 14800 - L2 Version 2
Chandra X-Ray Center

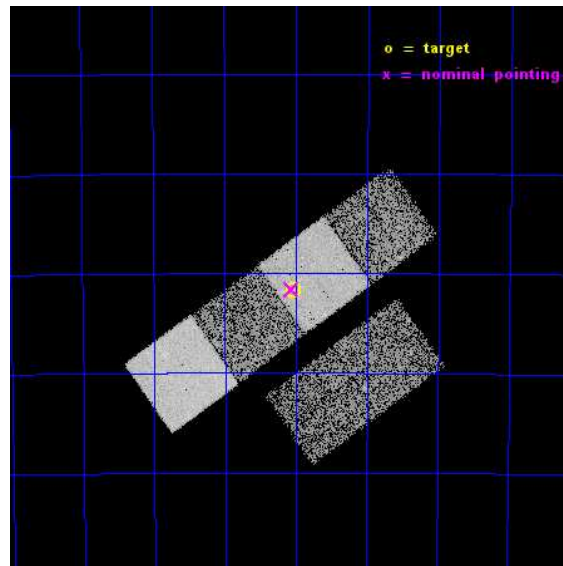
L2 Processing Date : Dec 3 2014

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1 Front

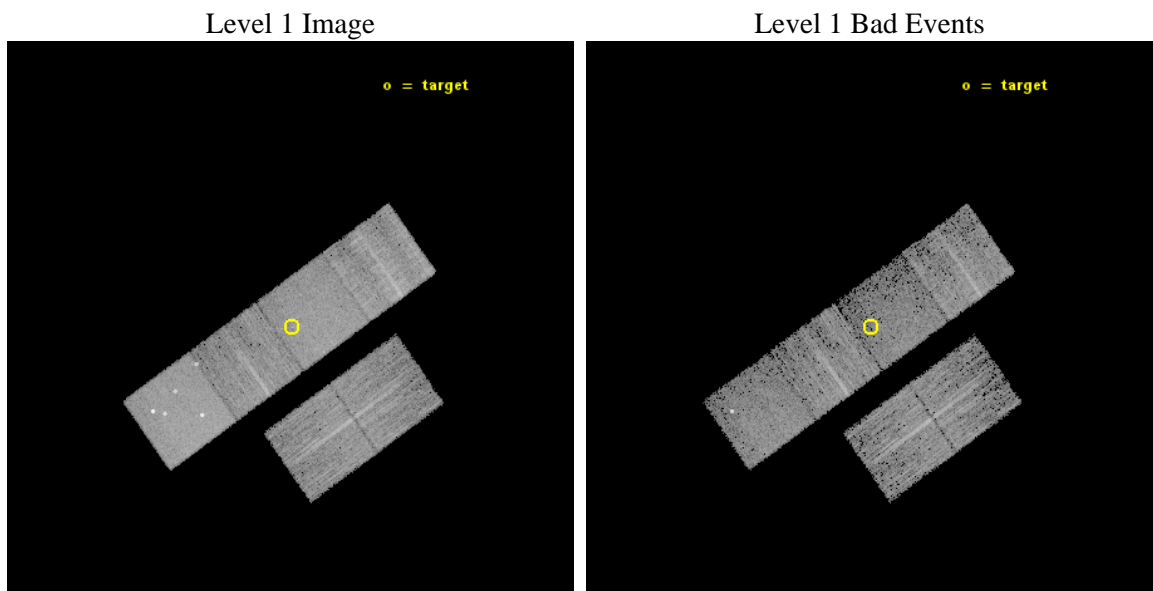
seq_num	501928	Sequence number
obs_id	14800	Observation id
title	Chandra Observations of New X-ray Supernovae	Proposal title
observer	Dr. David Pooley	Principal investigator
object	SN 2013by	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.760125	Observer's specified target RA [deg]
dec_targ	-60.194944	Observer's specified target Dec [deg]
ra_nom	254.76573605446	Nominal RA [deg]
dec_nom	-60.193816374913	Nominal Dec [deg]
roll_nom	324.40883578205	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9966.9566258192	Sum of GTIs [s]
livetime	9840.7490196423	Livetime [s]
ontime2	9966.9976658225	Sum of GTIs [s]
ontime3	9966.8335058093	Sum of GTIs [s]
ontime5	9966.9155858159	Sum of GTIs [s]
ontime6	9966.8745458126	Sum of GTIs [s]
ontime7	9966.9566258192	Sum of GTIs [s]
ontime8	9963.551425457	Sum of GTIs [s]
l2events	76887	Number of level 2 events



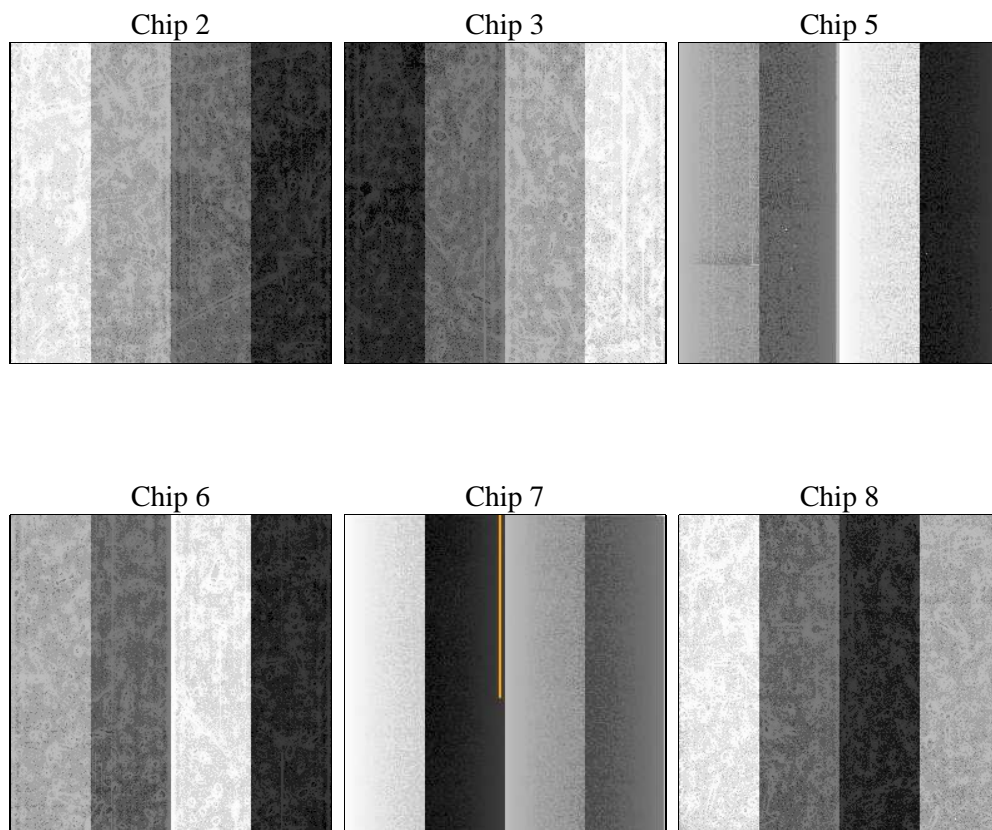
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9966.9566258192	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	9966.9976658225	Sum of GTIs [s]
date	2014-12-04T00:53:12	Date and time of file creation	ontime3	9966.8335058093	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9966.9155858159	Sum of GTIs [s]
			ontime6	9966.8745458126	Sum of GTIs [s]
			ontime7	9966.9566258192	Sum of GTIs [s]
			ontime8	9963.551425457	Sum of GTIs [s]
			l1events	311871	Number of level 1 events

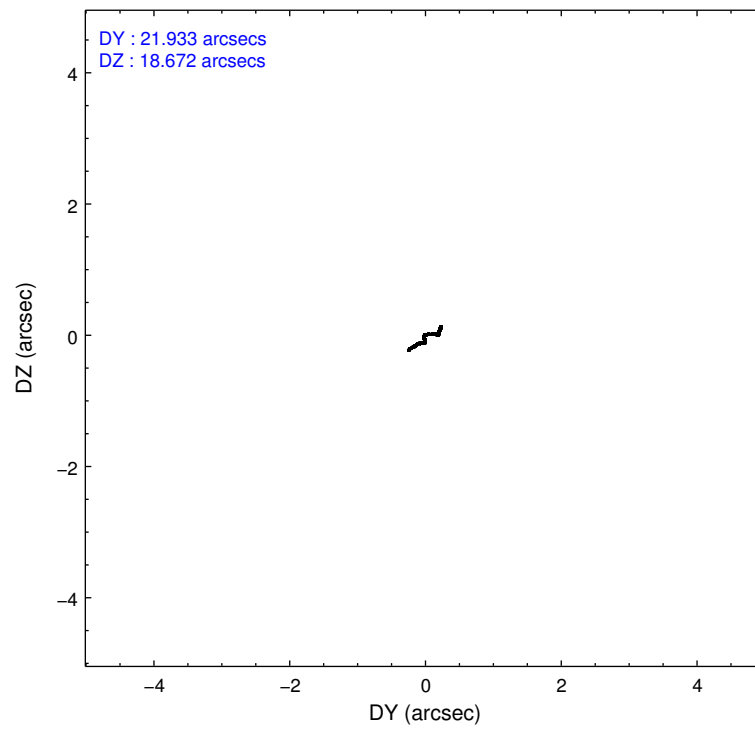
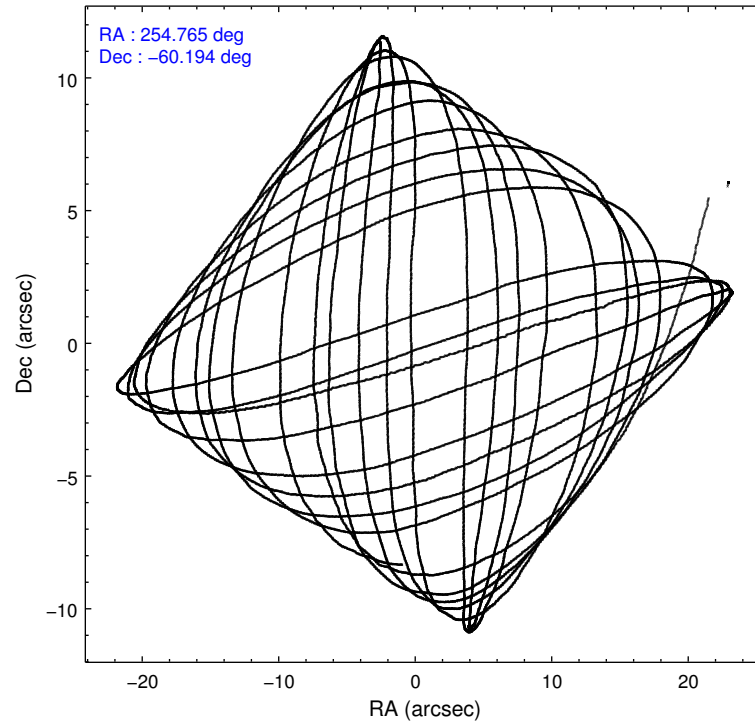
2.1.4 Events

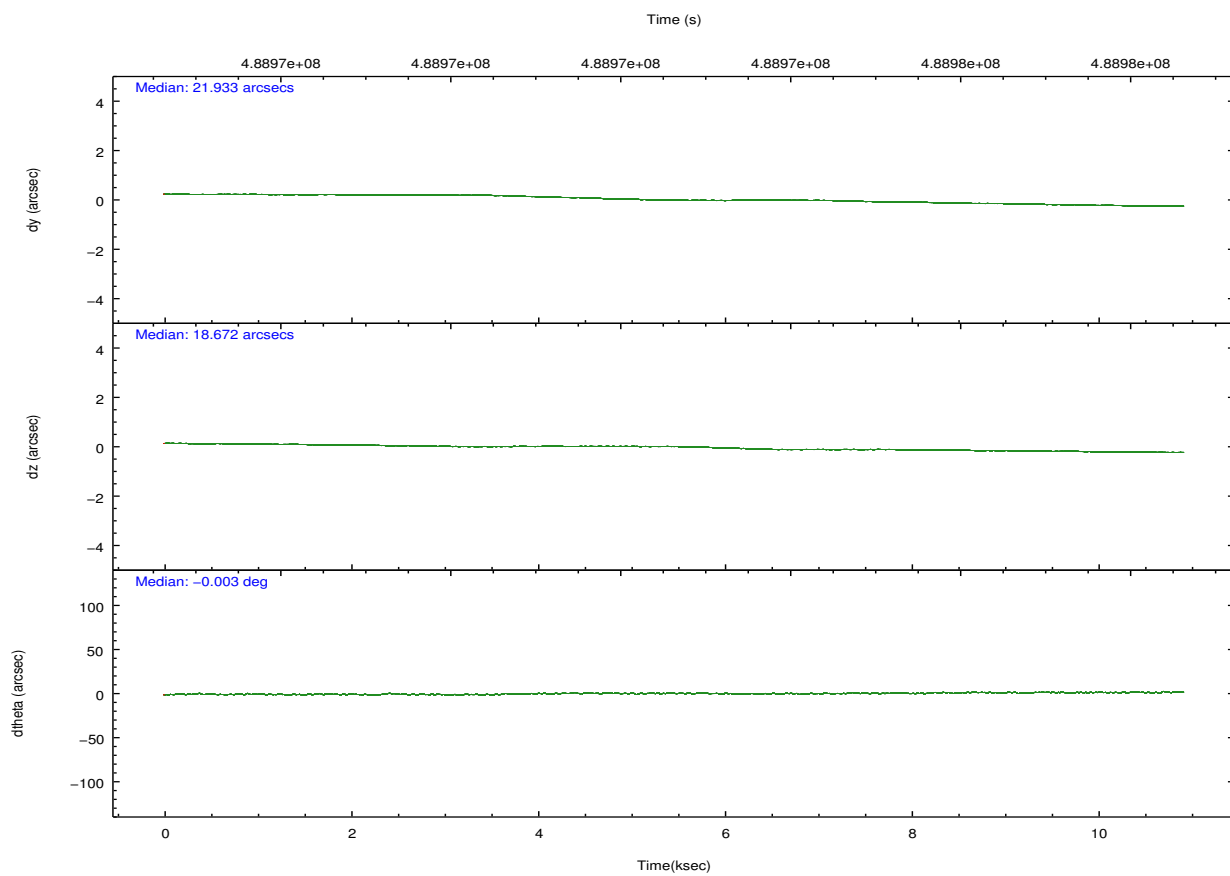
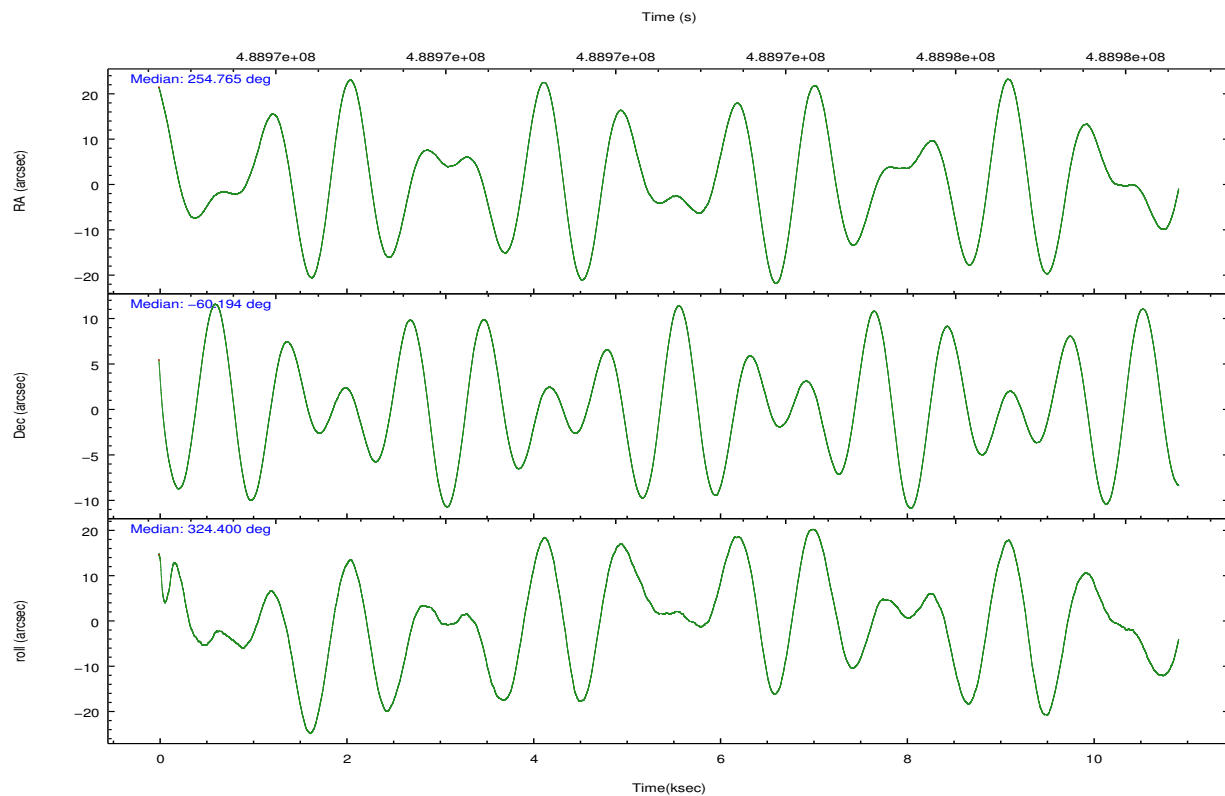
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45054	40379	71958	44240	53558	56682	grade 0 events	2005	1927	6628	2398	2796	4890
rejected events	39841	35363	33316	38322	27781	40004		4%	4%	9%	5%	5%	8%
rejected %	88%	87%	46%	86%	51%	70%	grade 1 events	38	29	158	15	75	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1258	1039	11465	1236	5616	4008
								2%	2%	15%	2%	10%	7%
							grade 3 events	496	532	1419	555	2365	1782
								1%	1%	1%	1%	4%	3%
							grade 4 events	502	534	1330	582	2223	1634
								1%	1%	1%	1%	4%	2%
							grade 5 events	1693	1997	5440	1967	5662	2900
								3%	4%	7%	4%	10%	5%
							grade 6 events	952	988	17828	1149	12795	4374
								2%	2%	24%	2%	23%	7%
							grade 7 events	38110	33333	27690	36338	22026	37043
								84%	82%	38%	82%	41%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	254.710973	254.7657360544626	CCD I2 on	O5	Y
[deg] Pointing Dec	-60.191515	-60.19381637491338	CCD I3 on	O4	Y
[deg] Pointing Roll	324.204670	324.4088357820514	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	488968074.184000	488966290.64698	CCD S5 on	N	N
Observation start date	2013-06-30T08:26:47	2013-06-30T07:58:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	488978074.184000	488979040.11017	On-chip summing requested	N	N
Observation end date	2013-06-30T11:13:27	2013-06-30T11:30:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



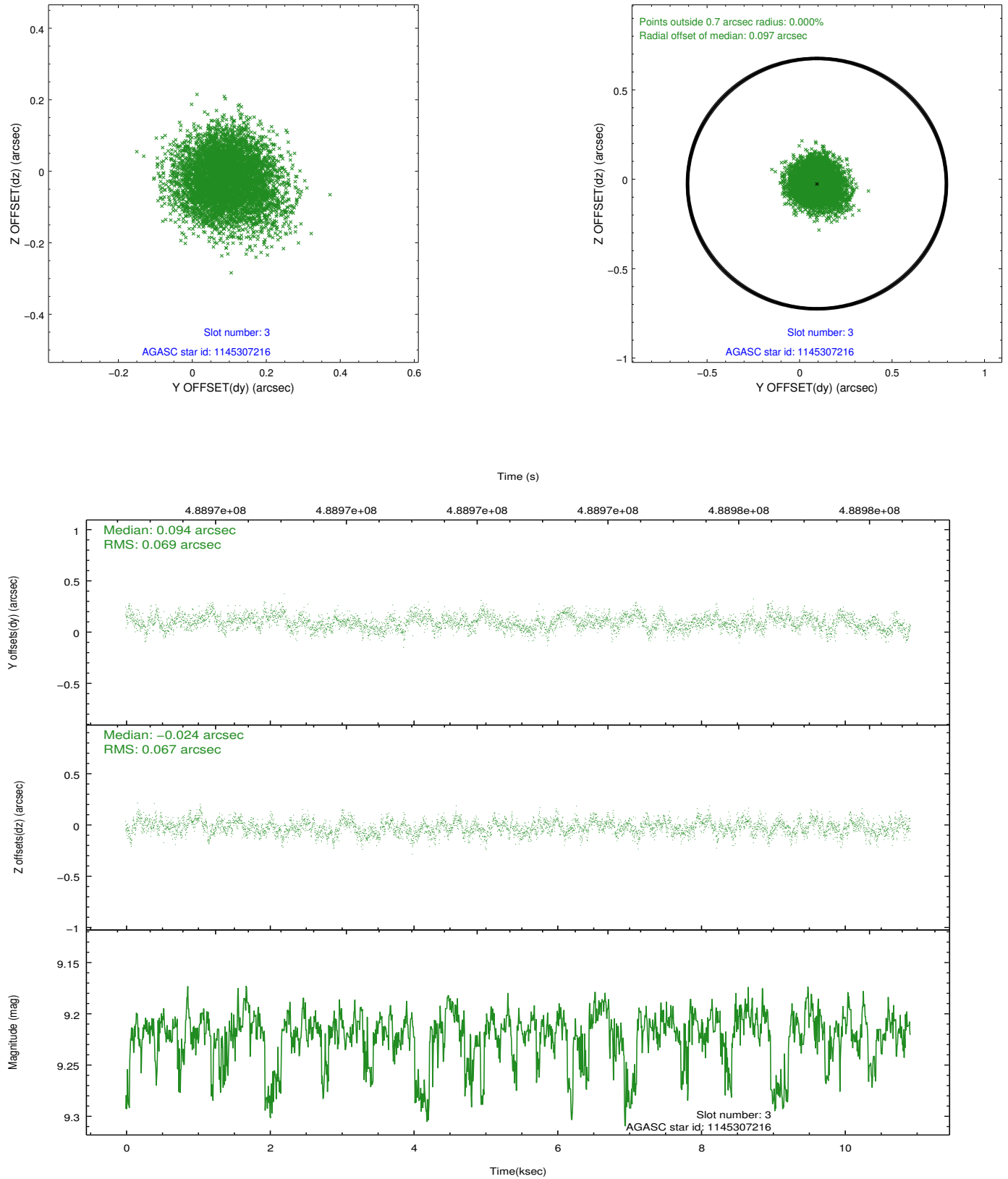


Slot Statistics

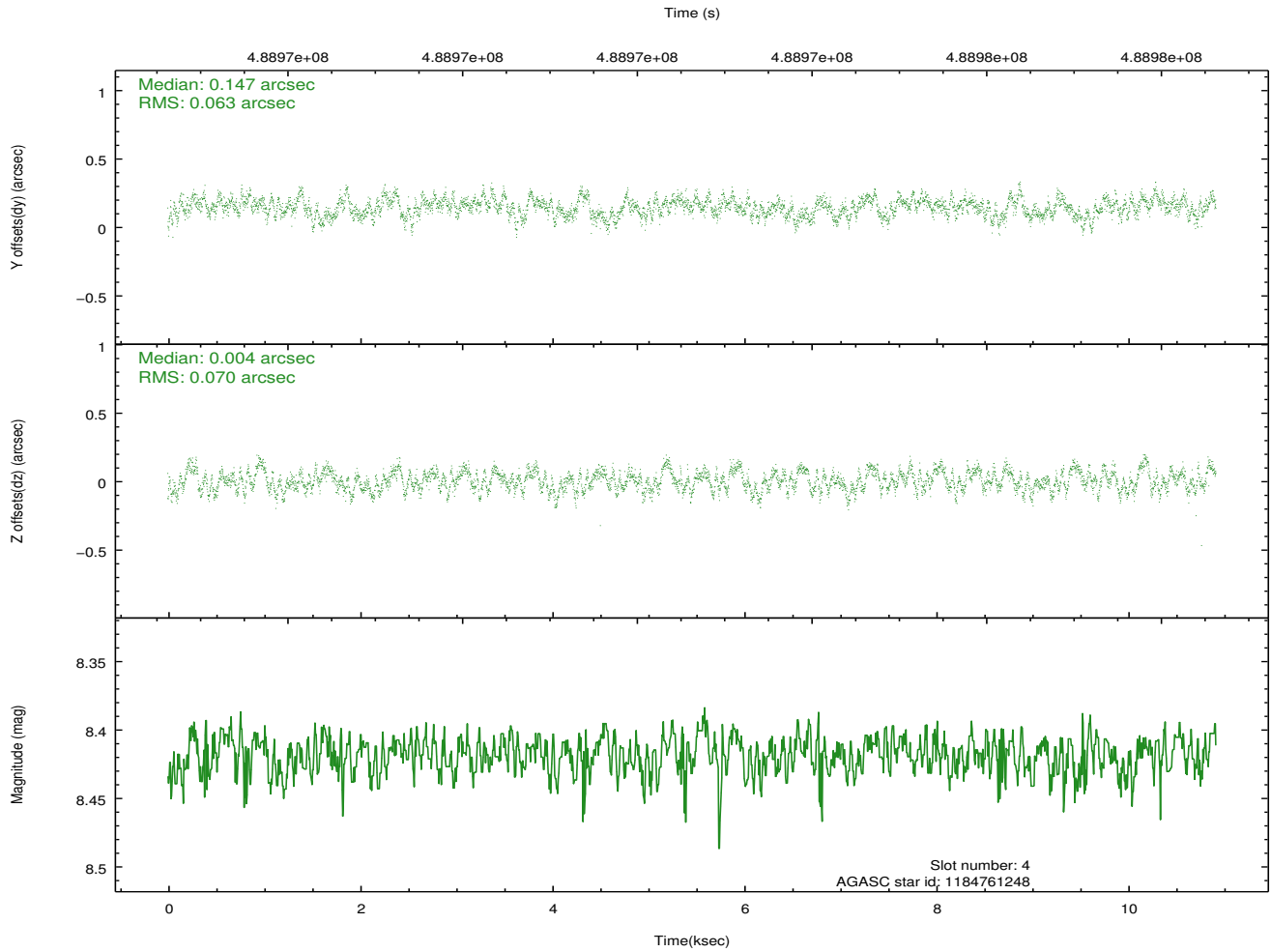
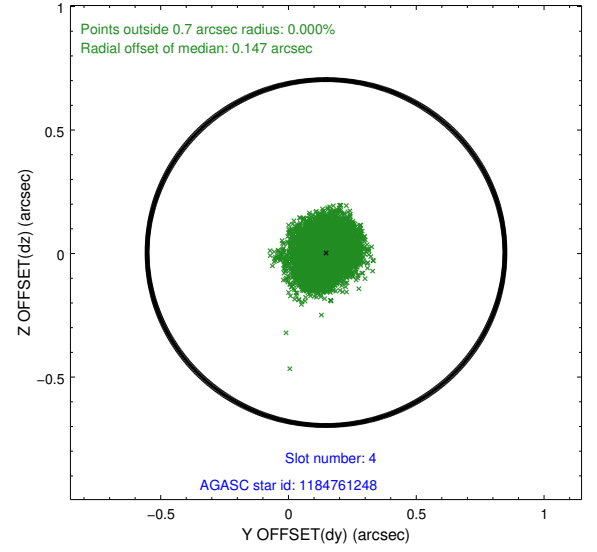
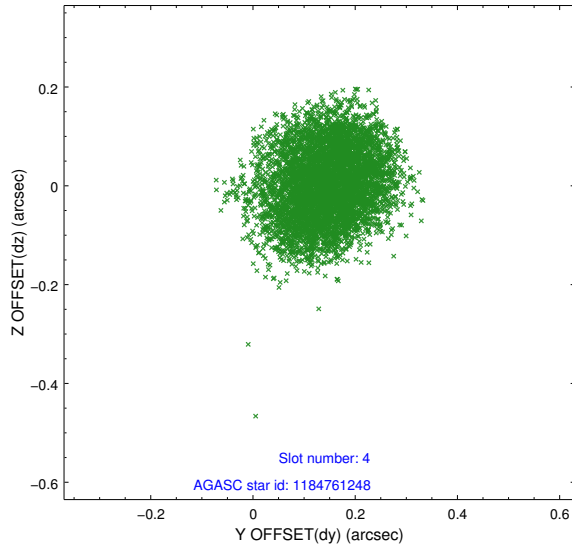
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	2664	-0.163	-0.101	0.007	0.013	0.000000	0.000000	-775.31	-1740.19
1	FID		ACIS-S-4	7.06	2664	0.211	0.081	0.006	0.010	0.000000	0.000000	2138.15	167.93
2	FID		ACIS-S-6	7.19	2664	-0.076	0.028	0.007	0.013	0.000000	0.000000	387.40	805.84
3	GUIDE	used	1145307216	9.22	5321	0.094	-0.024	0.103	0.166	253.961695	-59.762405	-2000.23	452.30
4	GUIDE	used	1184761248	8.42	5327	0.147	0.004	0.103	0.157	254.072232	-60.160415	-989.85	-582.60
5	GUIDE	used	1184768368	8.59	5300	0.184	-0.132	0.093	0.149	254.209182	-60.405956	-269.35	-1150.65
6	GUIDE	used	1184770504	6.99	5326	-0.053	0.096	0.070	0.114	253.893416	-60.677437	-139.93	-2269.48
7	GUIDE	used	1184771104	10.21	5300	-0.375	0.058	0.217	0.356	254.589554	-60.340442	138.52	-561.53

2.4 Star Slots

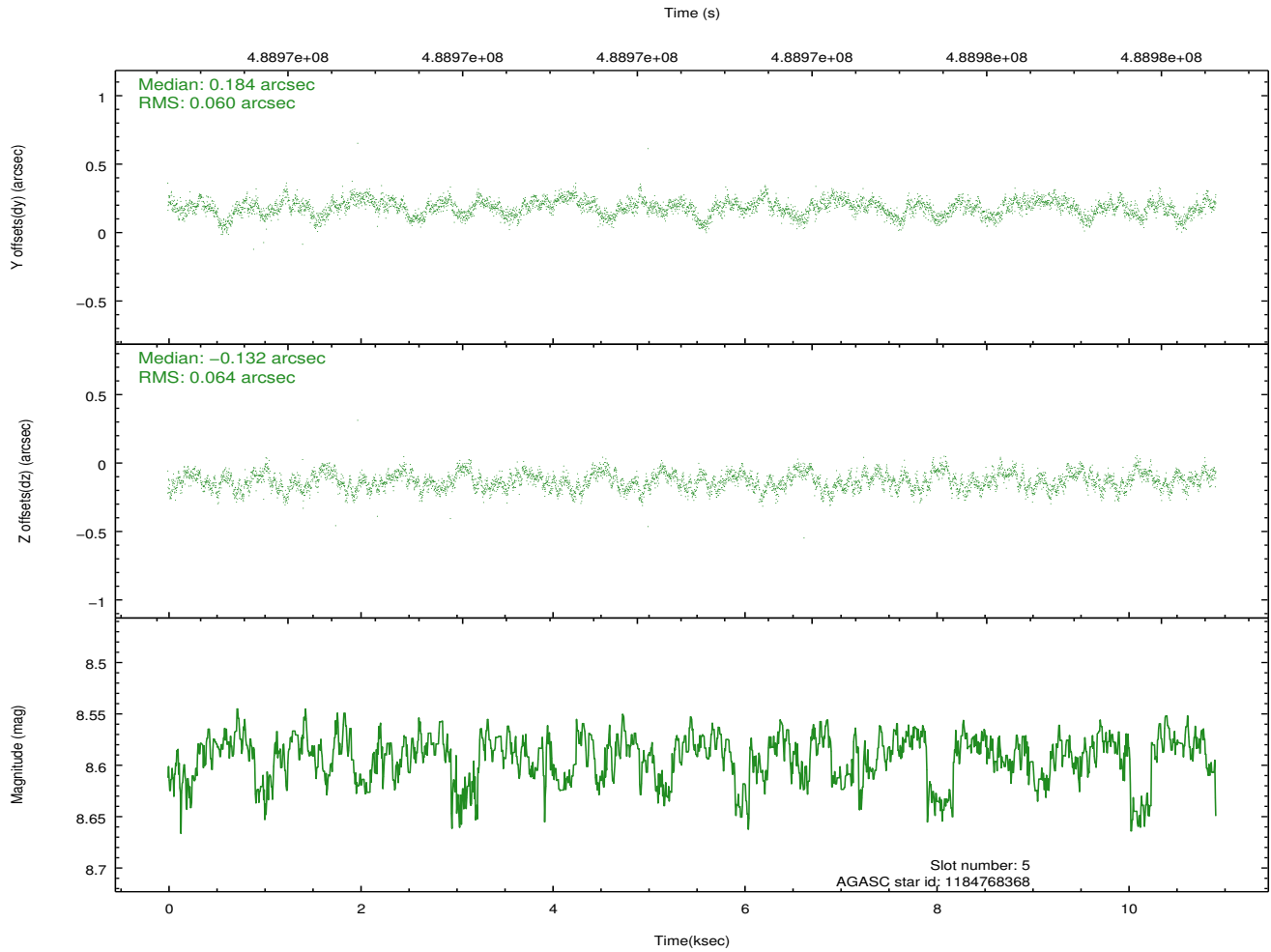
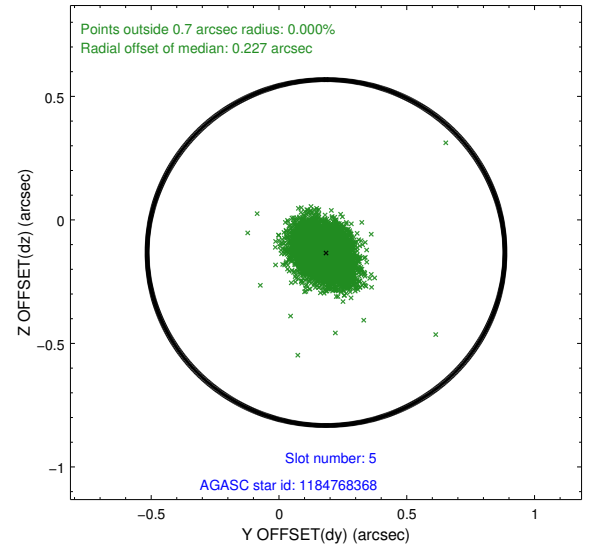
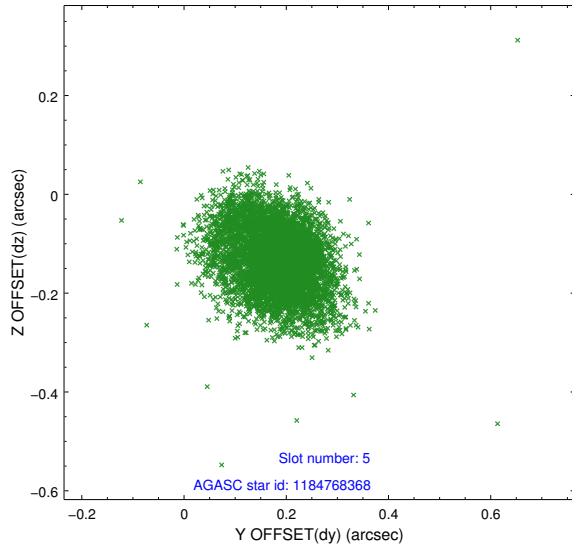
2.4.1 Slot 3



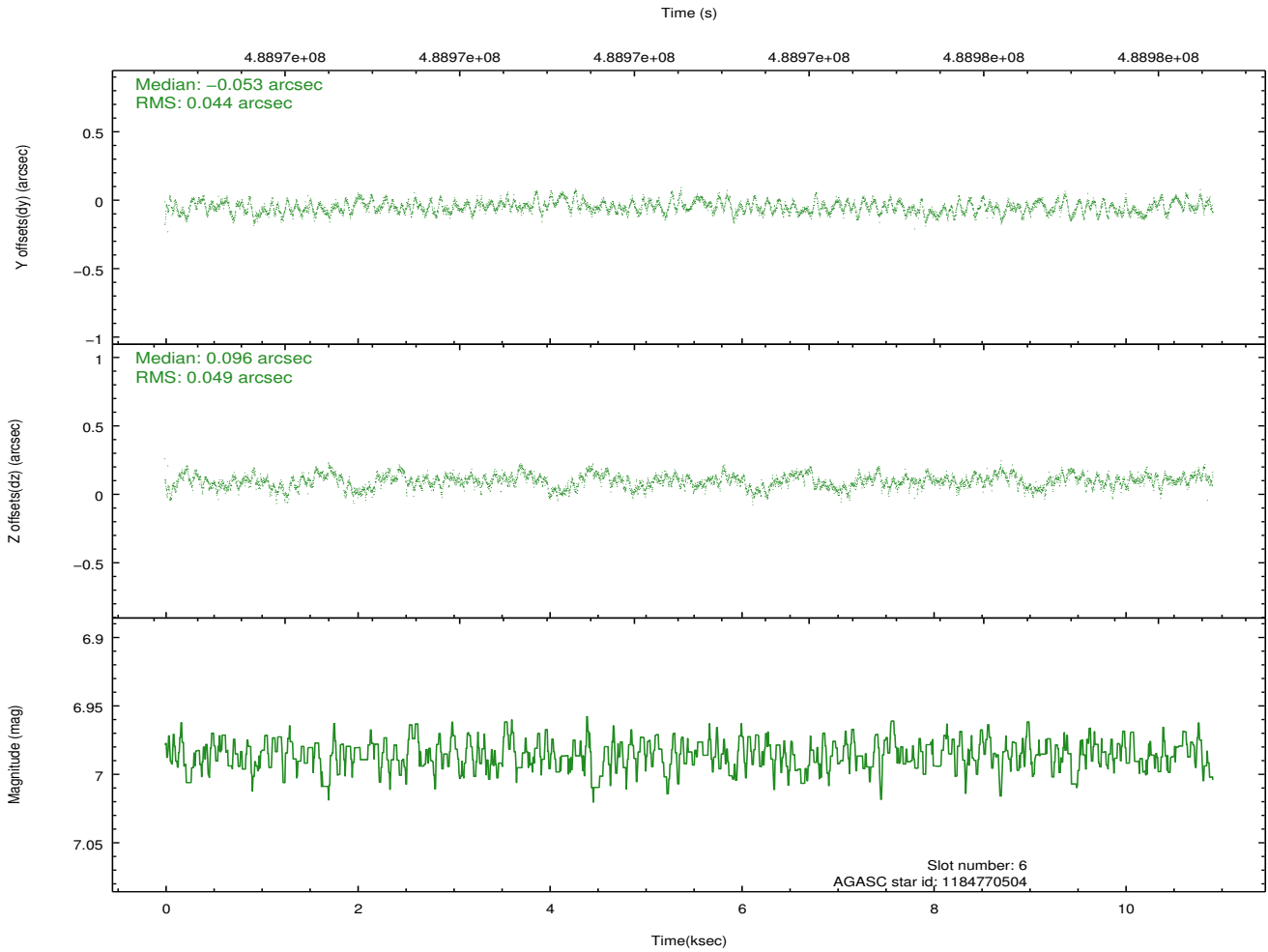
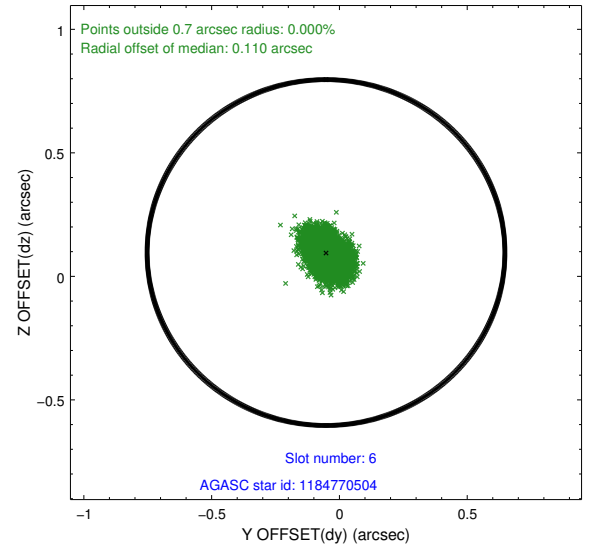
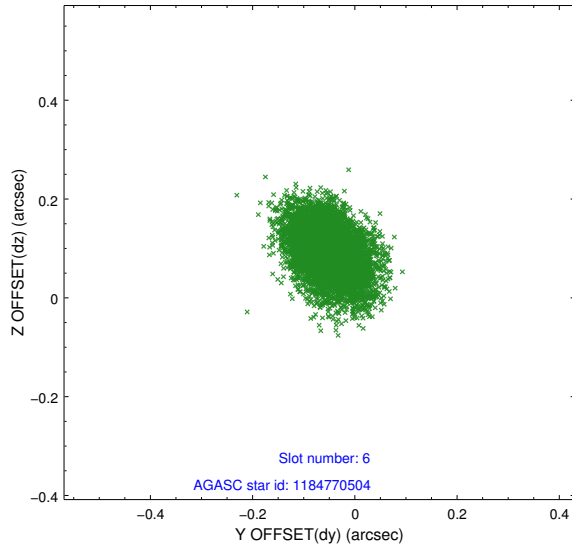
2.4.2 Slot 4



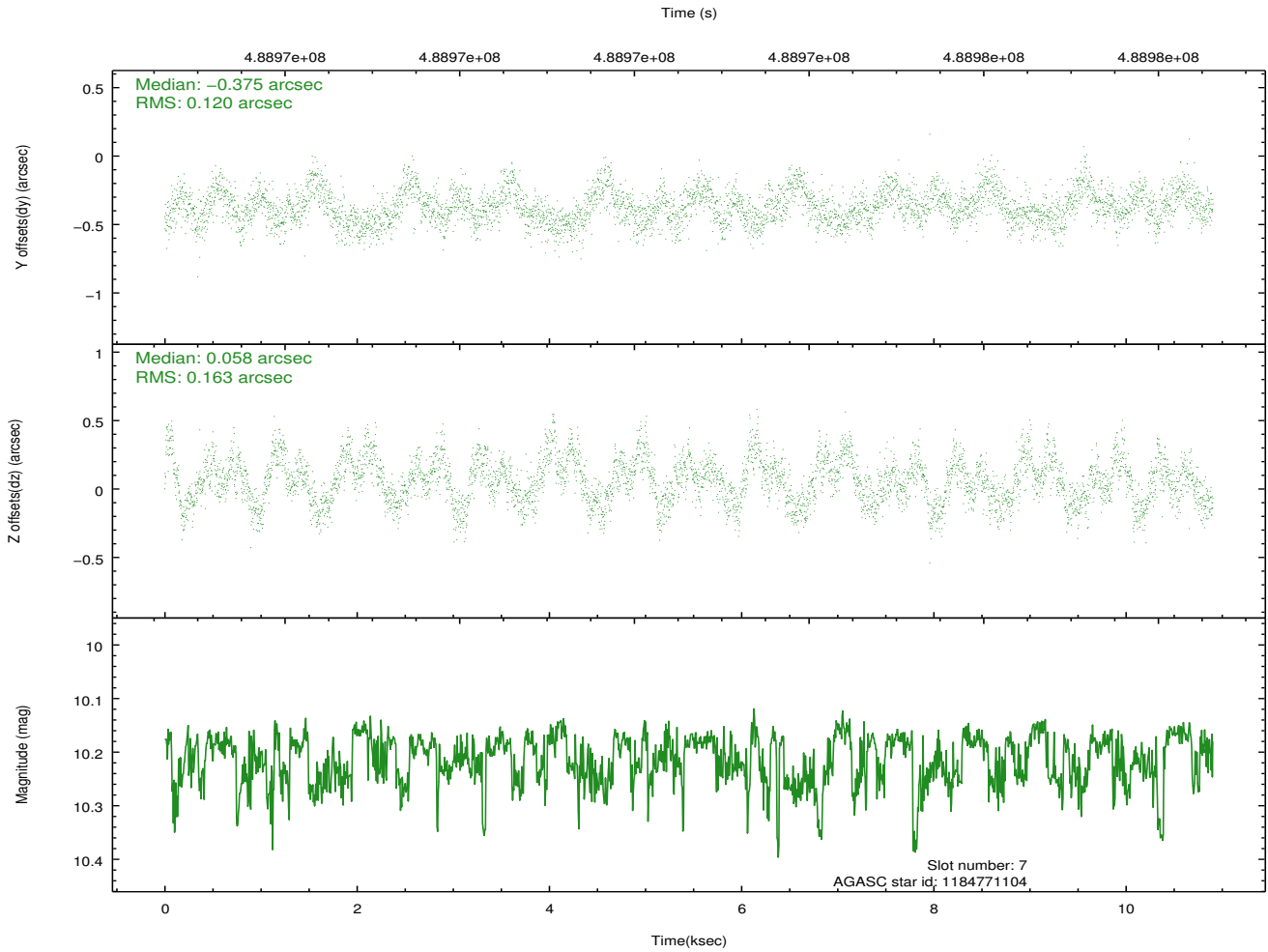
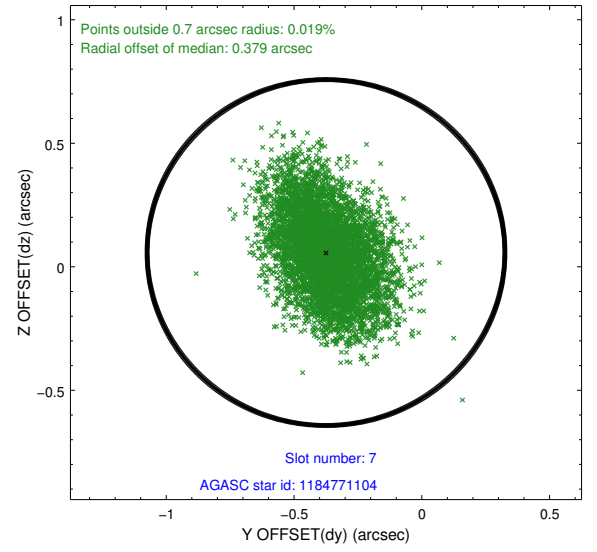
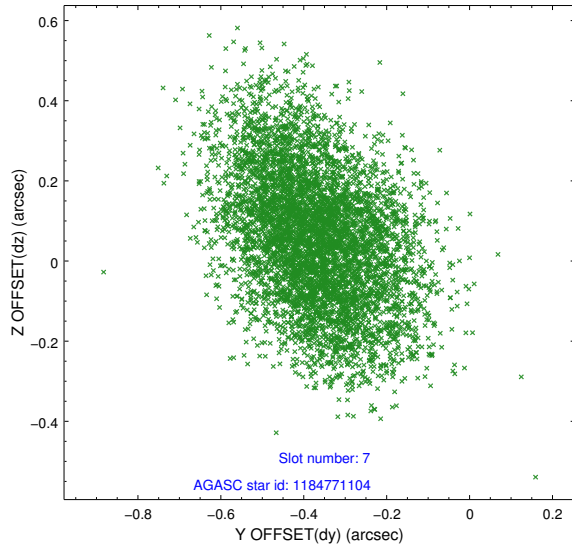
2.4.3 Slot 5



2.4.4 Slot 6

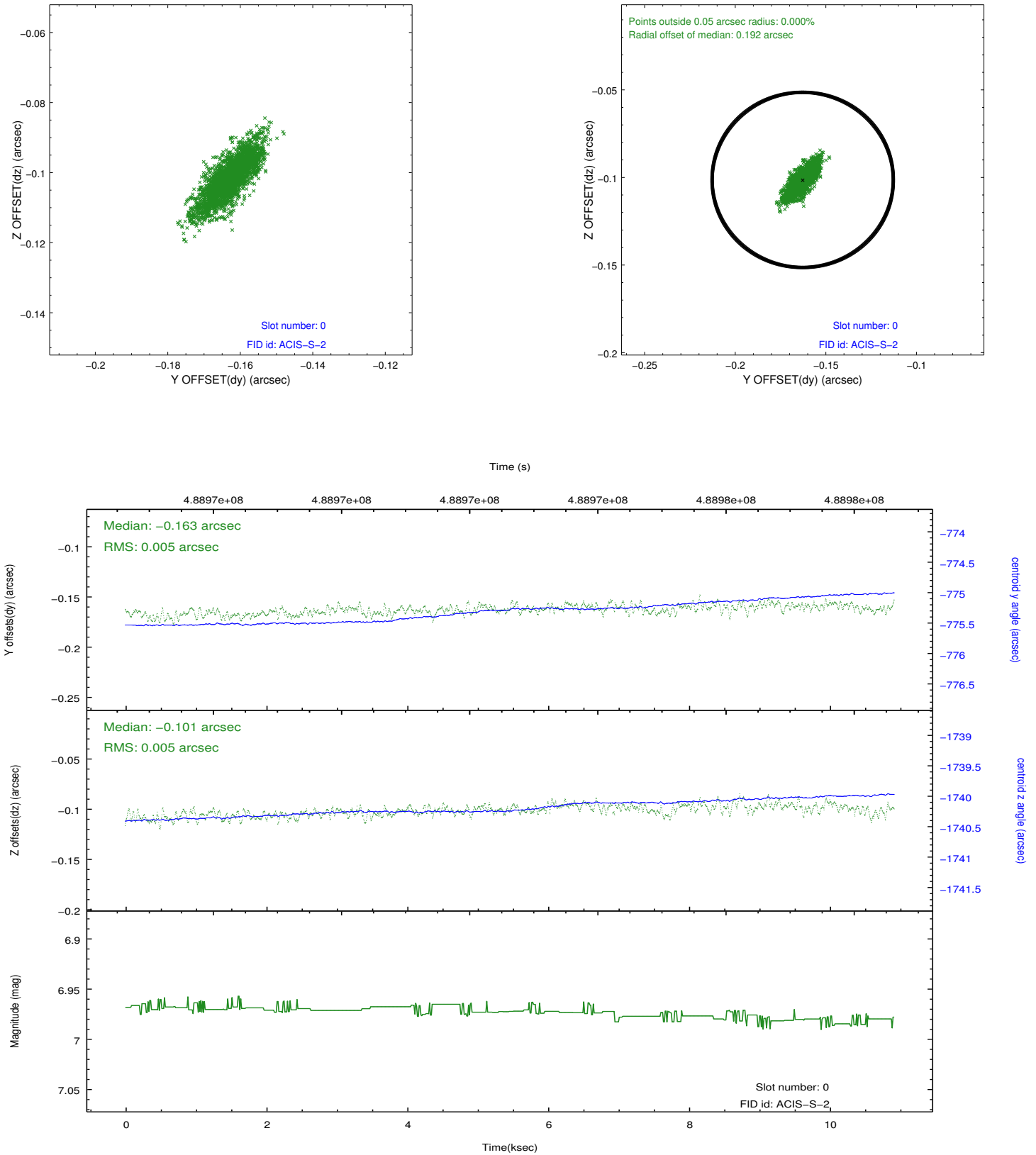


2.4.5 Slot 7

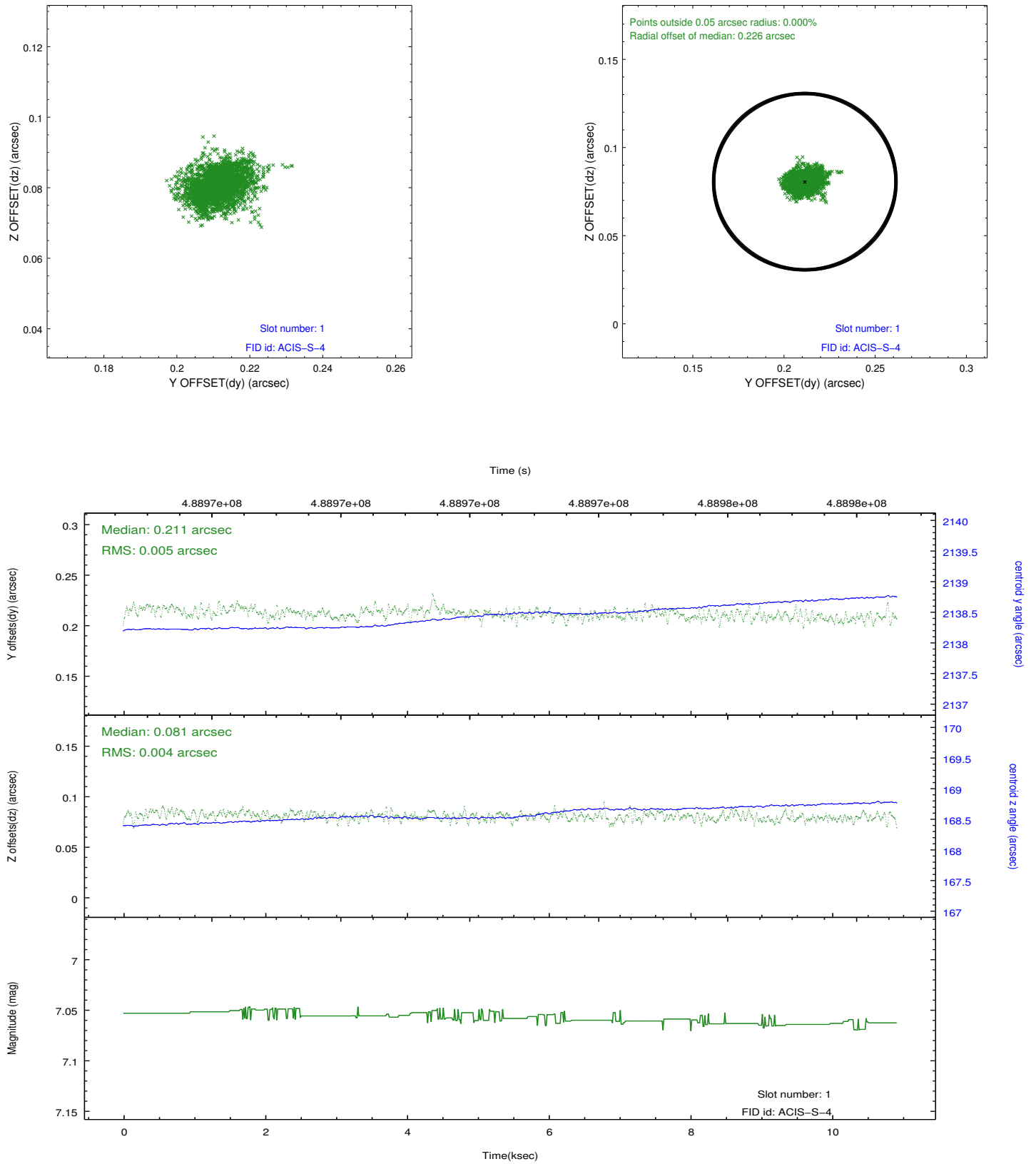


2.5 FID Slots

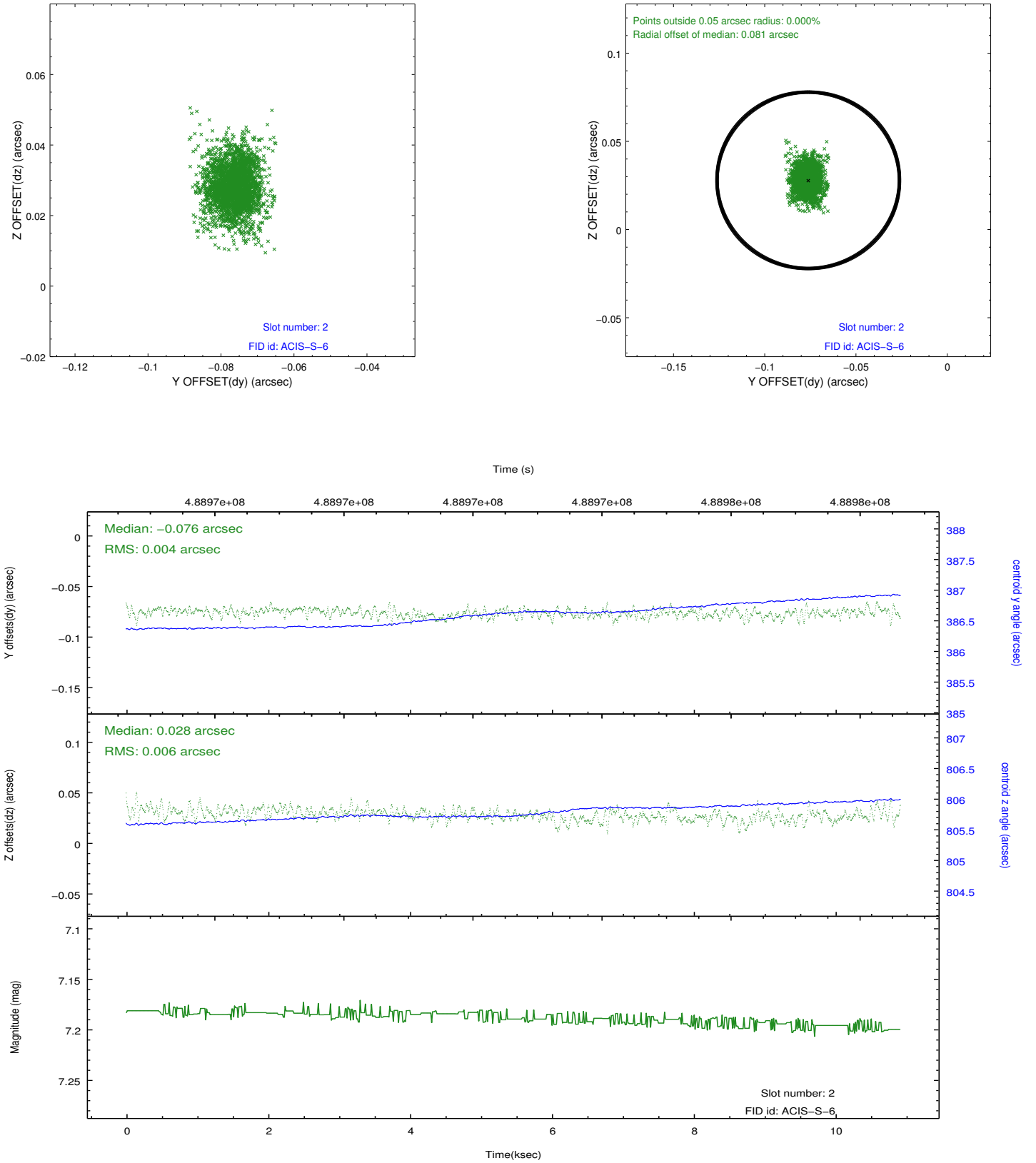
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9669566258192

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.