

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14334 - L2 Version 3
Chandra X-Ray Center

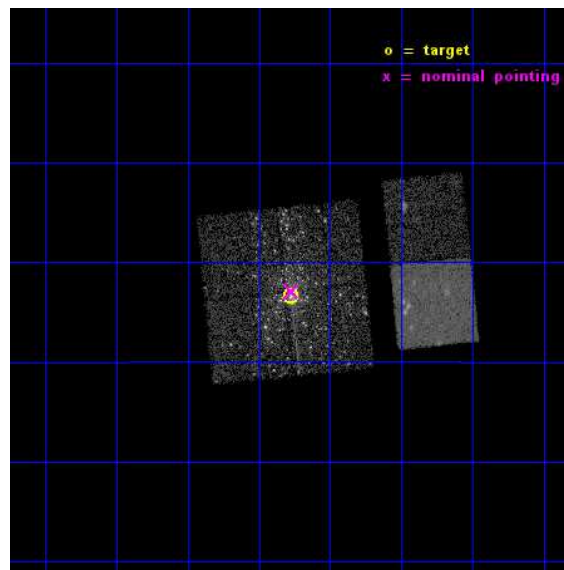
L2 Processing Date : Nov 27 2014

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1 Front

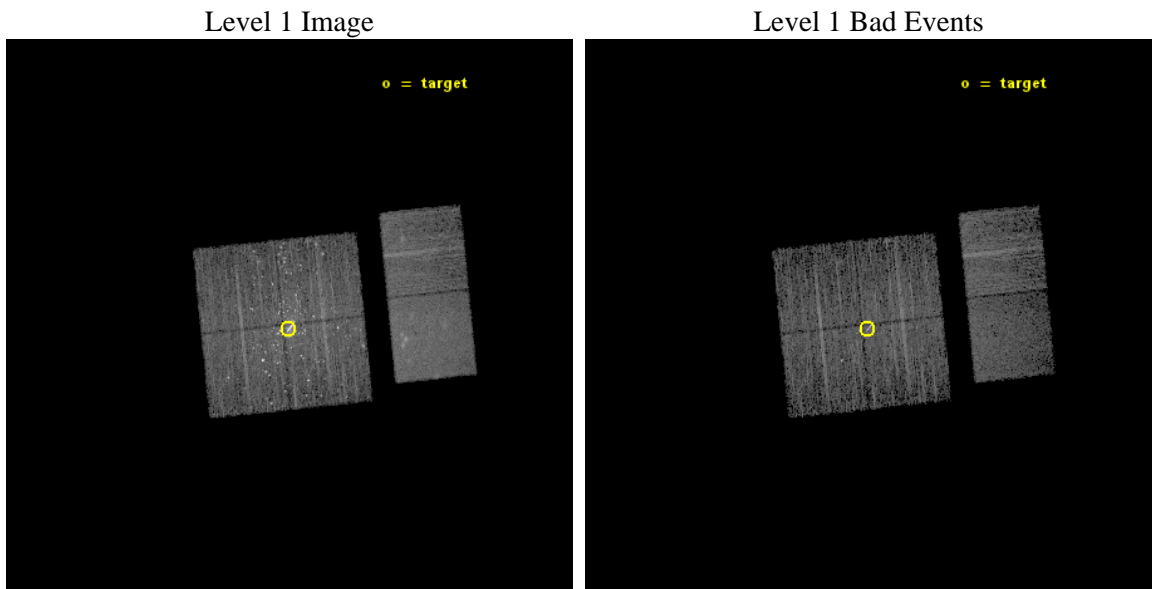
seq_num	200827	Sequence number
obs_id	14334	Observation id
title	Simultaneous X-ray and radio flaring of Young Stellar Objects in the Orion Nebula Cluster	Proposal title
observer	Dr Jan Forbrich	Principal investigator
object	Orion Nebula Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.819583	Observer's specified target RA [deg]
dec_targ	-5.39	Observer's specified target Dec [deg]
ra_nom	83.817955798397	Nominal RA [deg]
dec_nom	-5.3820160351209	Nominal Dec [deg]
roll_nom	84.10853646678	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8479.9999684691	Sum of GTIs [s]
livetime	8372.6211028254	Livetime [s]
ontime0	8479.9999684691	Sum of GTIs [s]
ontime1	8479.9999684691	Sum of GTIs [s]
ontime2	8479.9999684691	Sum of GTIs [s]
ontime3	8479.9999684691	Sum of GTIs [s]
ontime6	8479.9999684691	Sum of GTIs [s]
ontime7	8479.9999684691	Sum of GTIs [s]
l2events	105460	Number of level 2 events



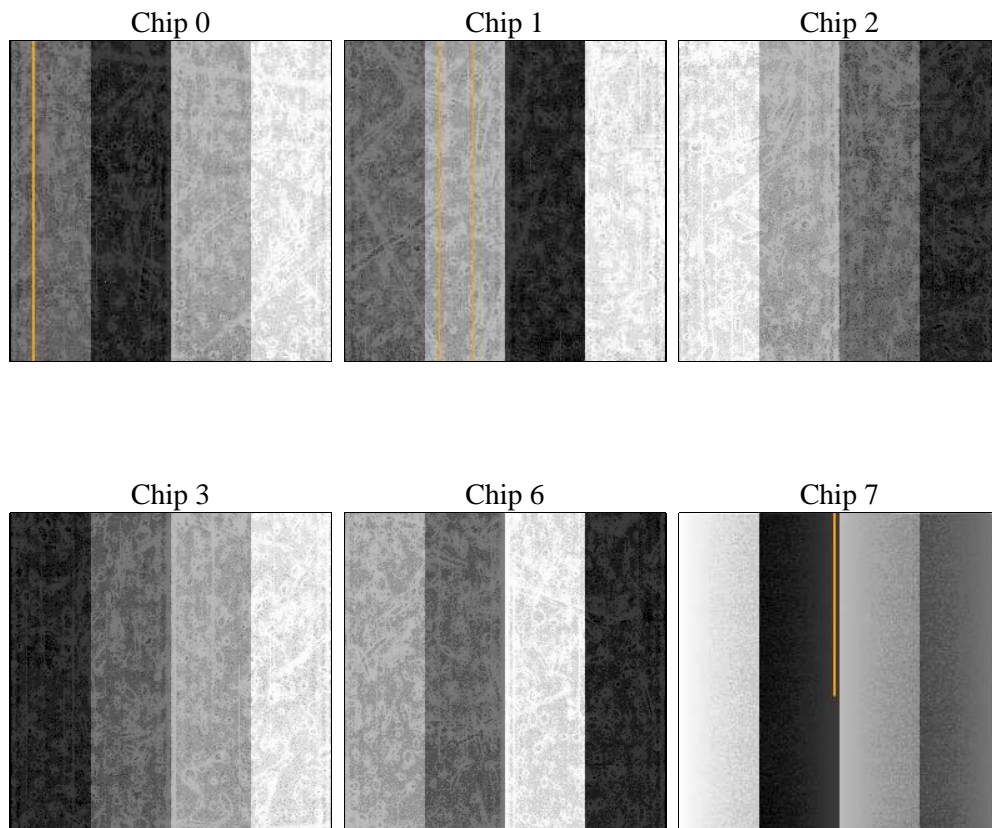
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8508.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	8479.9999684691	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	8479.9999684691	Sum of GTIs [s]
date	2014-11-27T23:12:54	Date and time of file creation	ontime1	8479.9999684691	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8479.9999684691	Sum of GTIs [s]
			ontime3	8479.9999684691	Sum of GTIs [s]
			ontime6	8479.9999684691	Sum of GTIs [s]
			ontime7	8479.9999684691	Sum of GTIs [s]
			l1events	337889	Number of level 1 events

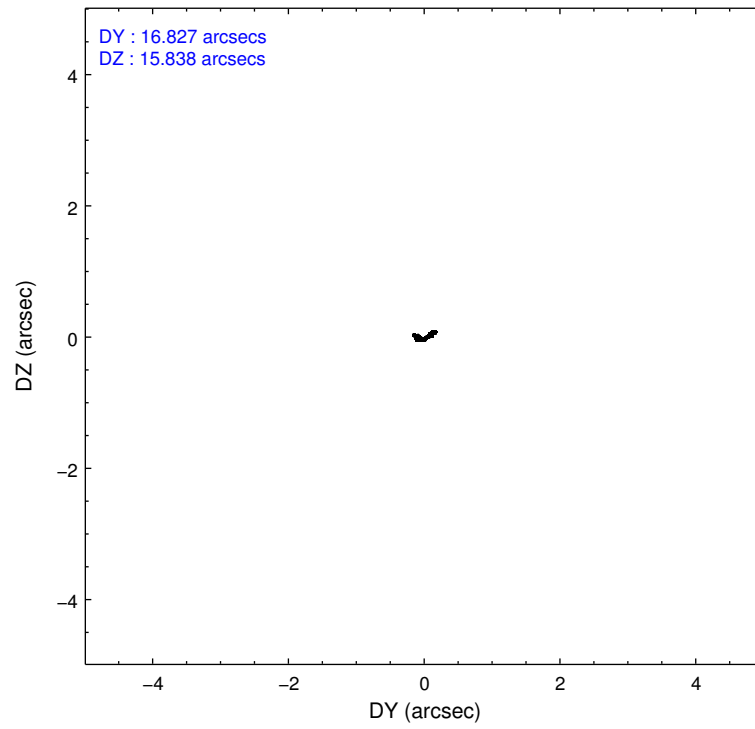
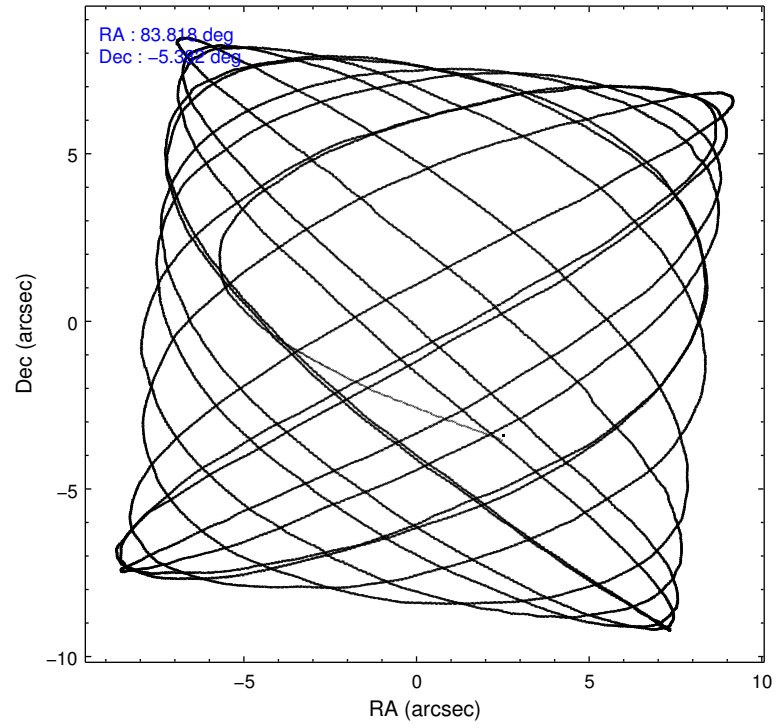
2.1.4 Events

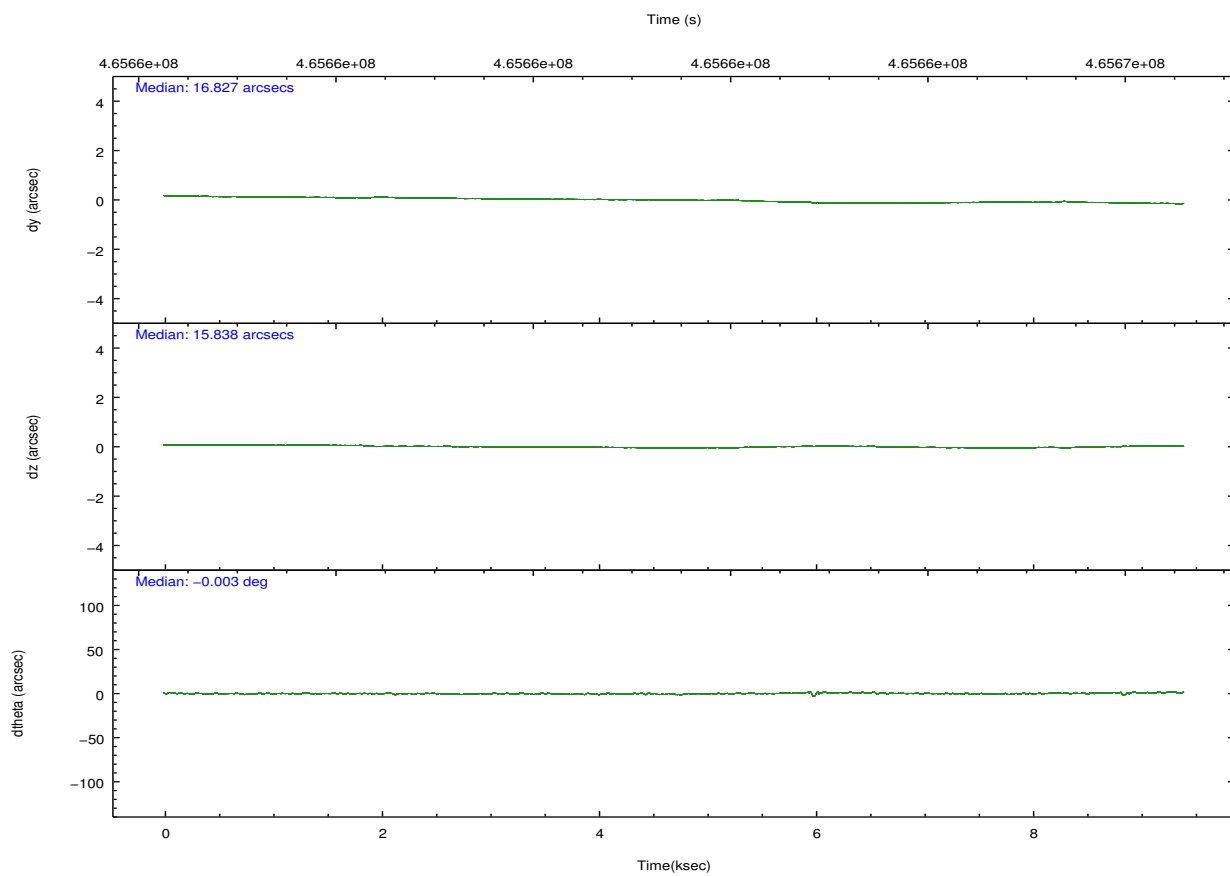
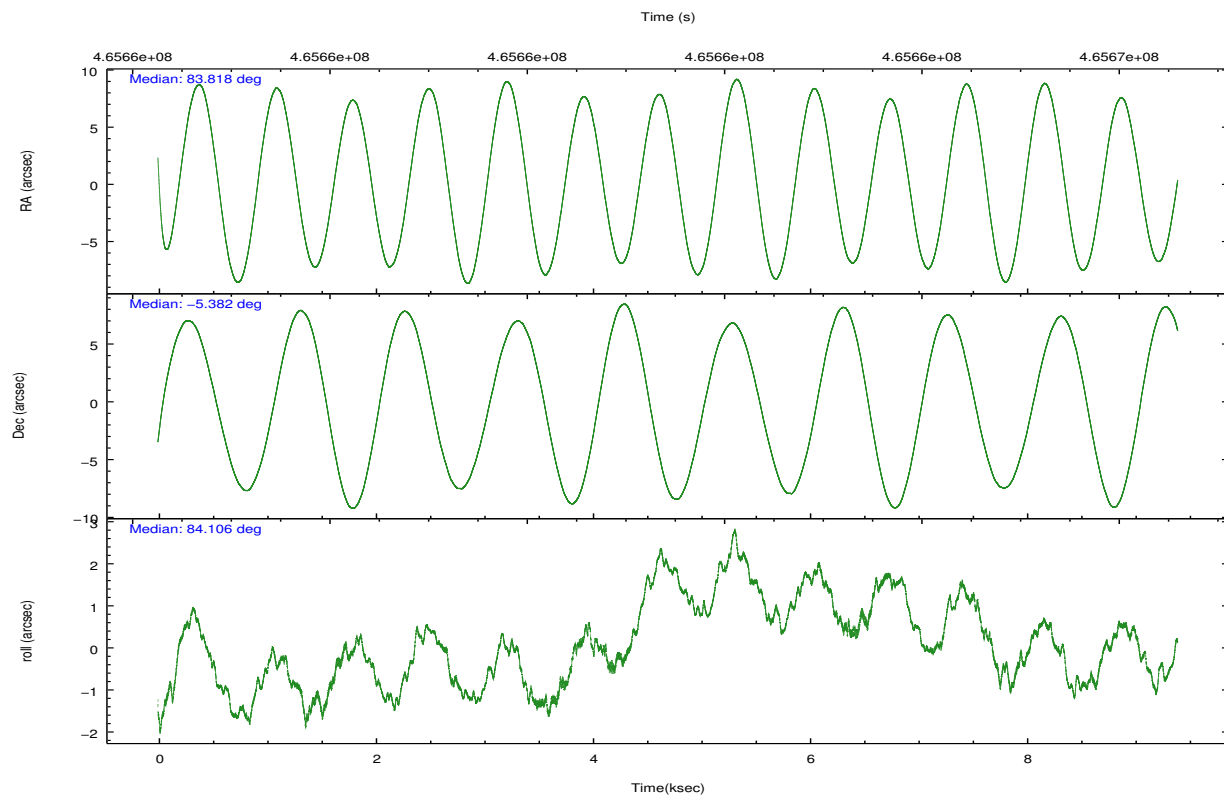
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	44526	55831	57804	70469	47474	61785	grade 0 events	5721	12461	12636	20687	2257	3129
rejected events	34245	36568	38812	40773	41421	33132		12%	22%	21%	29%	4%	5%
rejected %	76%	65%	67%	57%	87%	53%	grade 1 events	59	359	230	960	27	62
								0%	0%	0%	1%	0%	0%
							grade 2 events	1920	3015	2847	3967	1293	5951
								4%	5%	4%	5%	2%	9%
							grade 3 events	745	991	1035	1493	551	2572
								1%	1%	1%	2%	1%	4%
							grade 4 events	662	1068	1002	1470	615	2561
								1%	1%	1%	2%	1%	4%
							grade 5 events	2077	2331	2006	3042	2358	6217
								4%	4%	3%	4%	4%	10%
							grade 6 events	1238	1731	1479	2095	1342	14450
								2%	3%	2%	2%	2%	23%
							grade 7 events	32104	33875	36569	36755	39031	26843
								72%	60%	63%	52%	82%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	83.829357	83.81795579839735	CCD I2 on	Y	Y
[deg] Pointing Dec	-5.407136	-5.382016035120923	CCD I3 on	Y	Y
[deg] Pointing Roll	83.900924	84.10853646678015	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	465657611.184000	465655979.23816	CCD S5 on	N	N
Observation start date	2012-10-03T13:19:04	2012-10-03T12:52:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465666119.184000	465667004.65125	On-chip summing requested	N	N
Observation end date	2012-10-03T15:40:52	2012-10-03T15:56:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



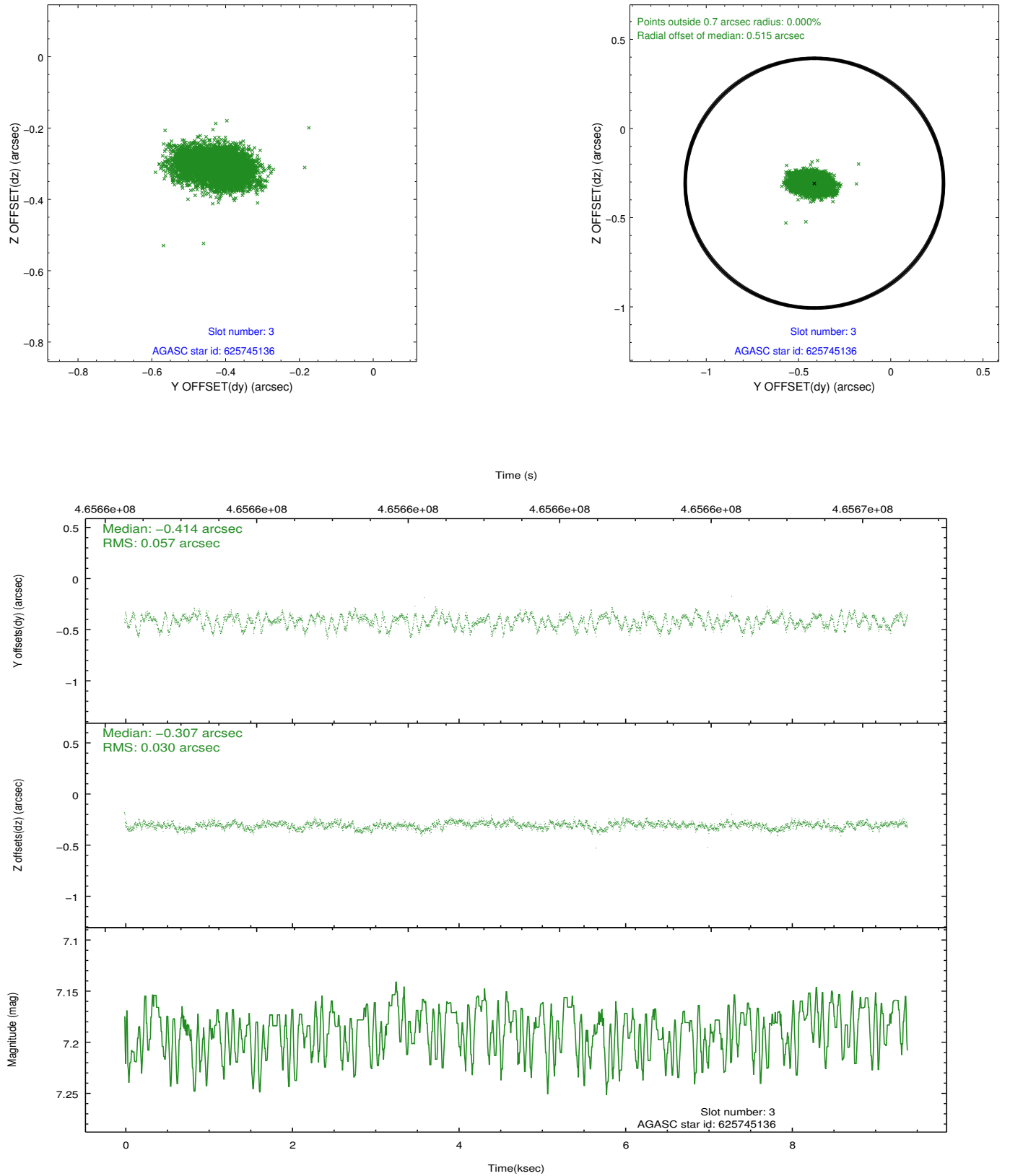


Slot Statistics

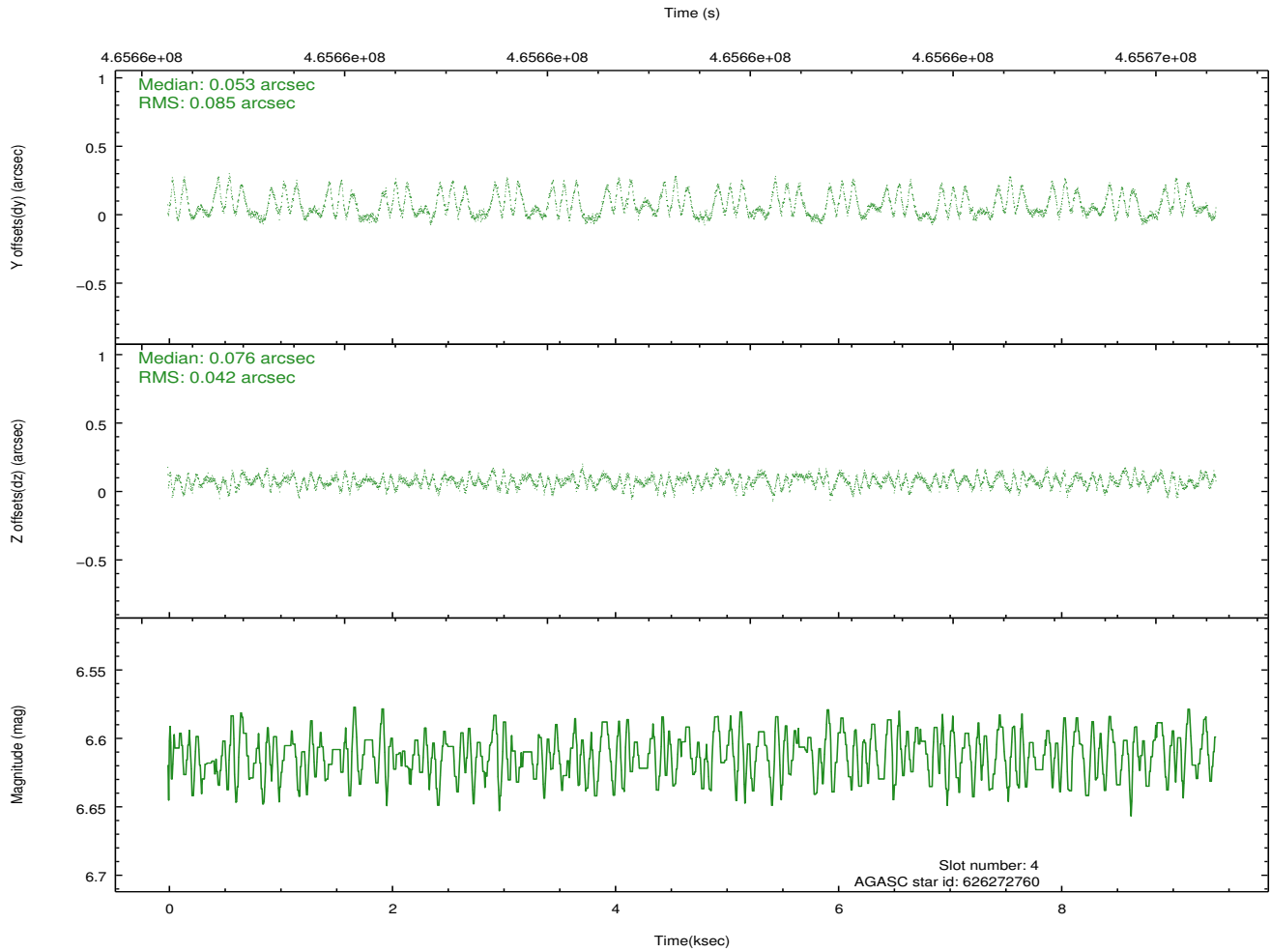
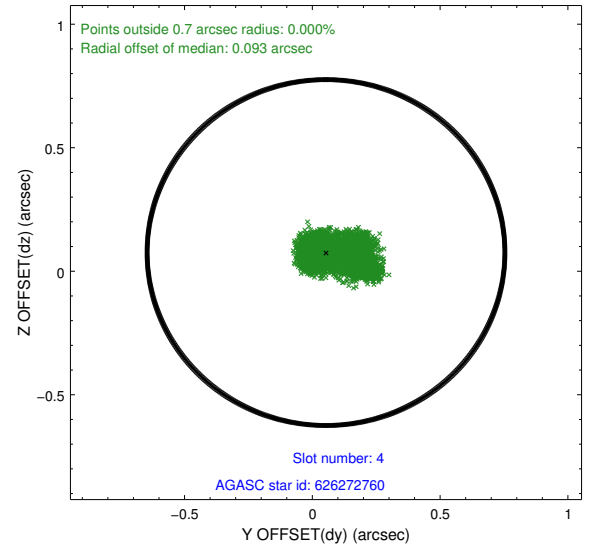
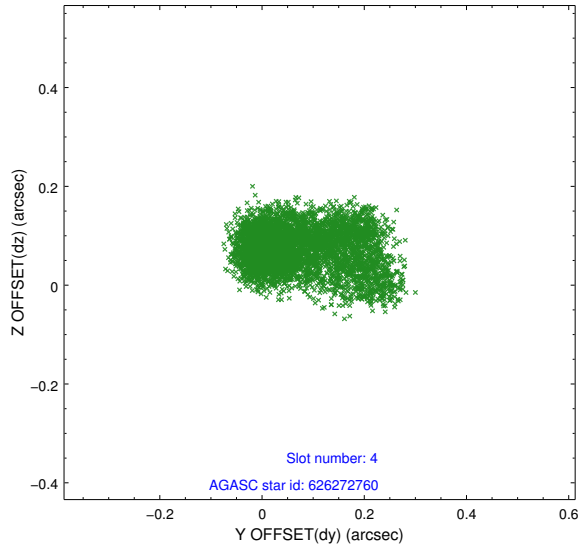
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.05	2292	0.048	-0.027	0.007	0.013	0.000000	0.000000	922.65	-839.48
1	FID		ACIS-I-5	7.04	2292	-0.237	0.042	0.008	0.013	0.000000	0.000000	-1825.45	1057.76
2	FID		ACIS-I-6	7.05	2292	0.098	0.056	0.007	0.012	0.000000	0.000000	387.59	1702.95
3	GUIDE	used	625745136	7.19	4584	-0.414	-0.307	0.068	0.116	83.600341	-4.804339	2069.99	1047.28
4	GUIDE	used	626272760	6.61	4585	0.053	0.076	0.093	0.179	84.363987	-5.938389	-1698.60	-2106.52
5	GUIDE	used	626272976	7.95	4584	0.102	0.023	0.069	0.115	83.795875	-5.926912	-1873.62	-79.99
6	GUIDE	used	625874664	6.72	4585	0.046	0.114	0.065	0.121	84.472438	-4.814037	2366.81	-2066.92
7	GUIDE	used	626272880	7.66	4584	0.180	0.097	0.079	0.140	83.815609	-6.032748	-2243.99	-190.69

2.4 Star Slots

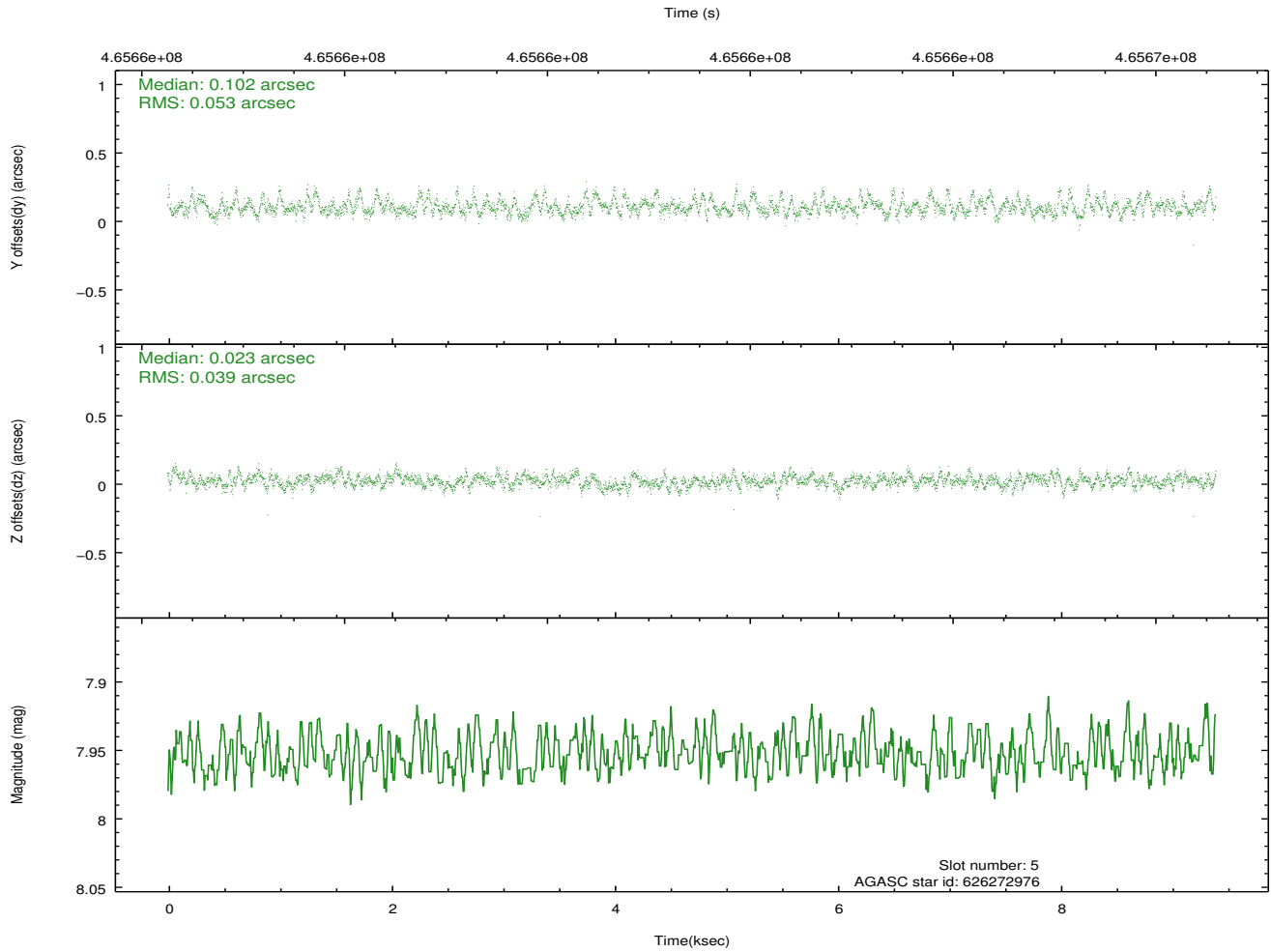
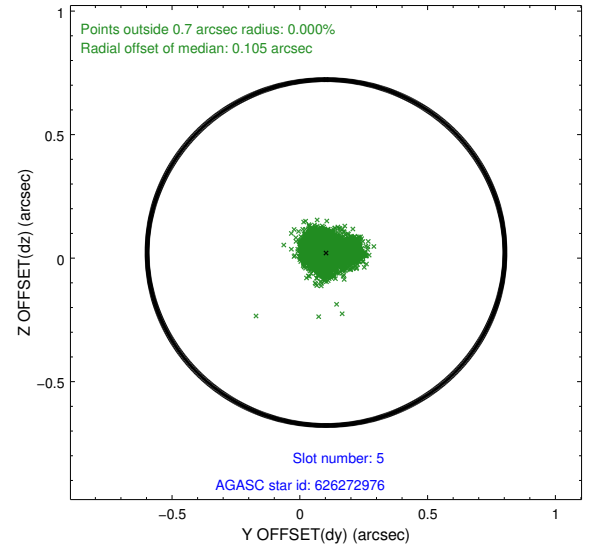
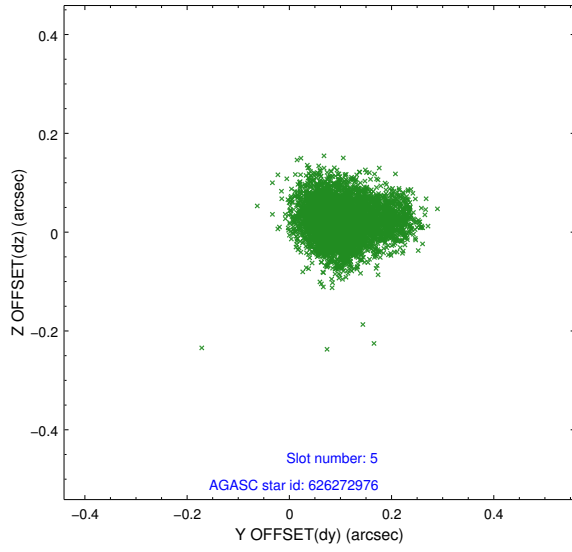
2.4.1 Slot 3



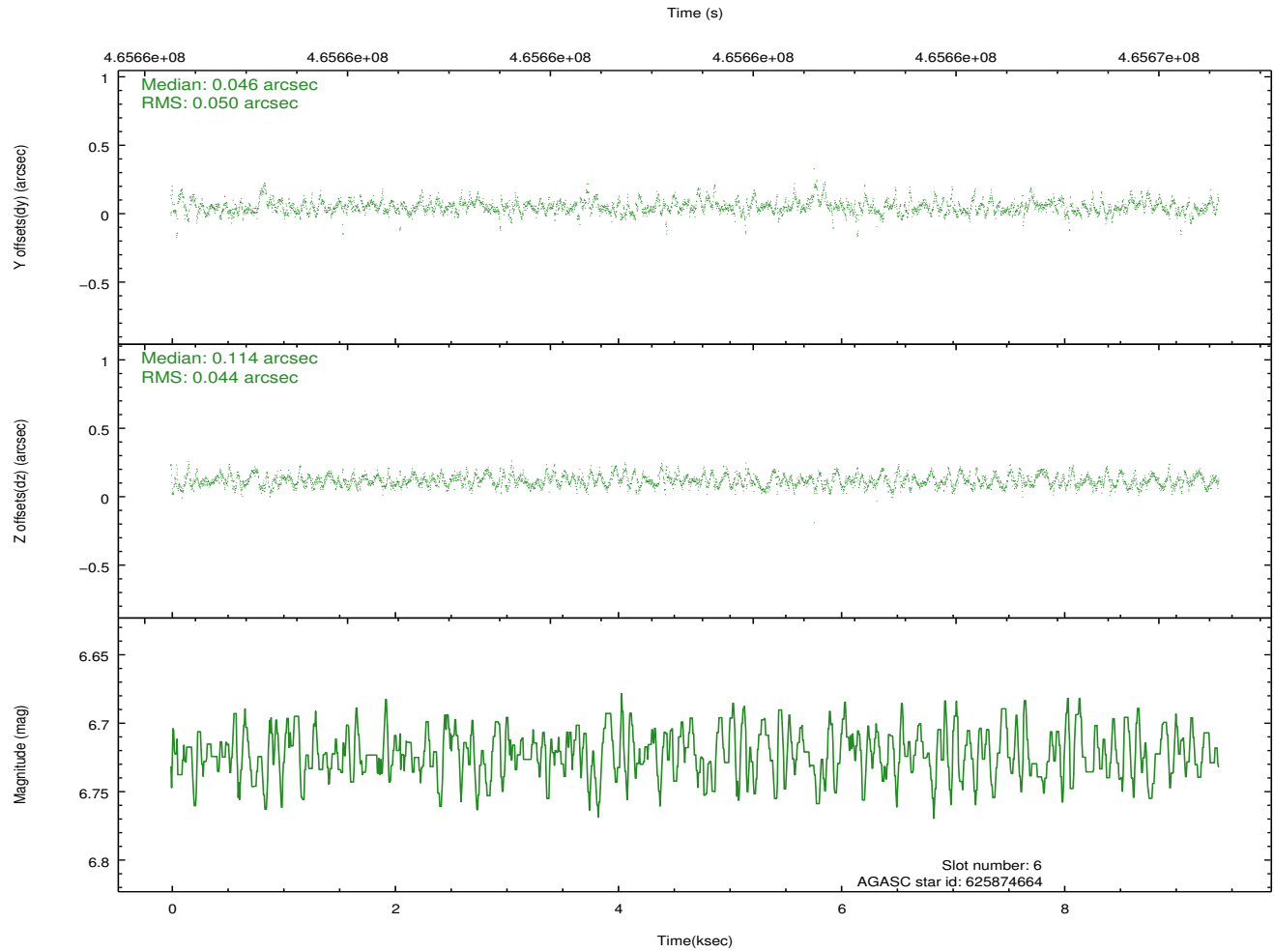
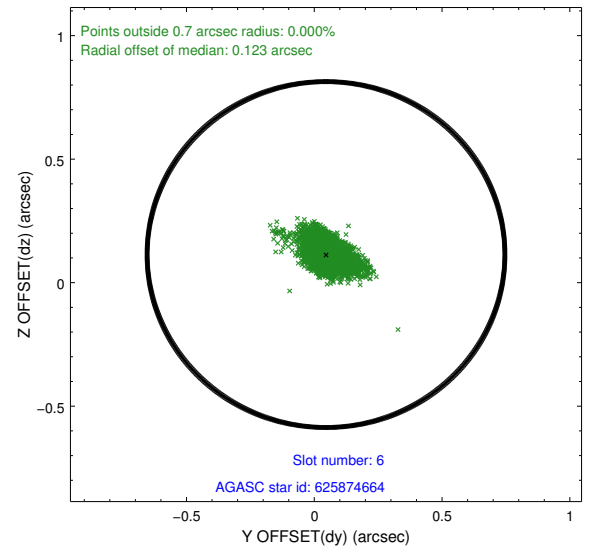
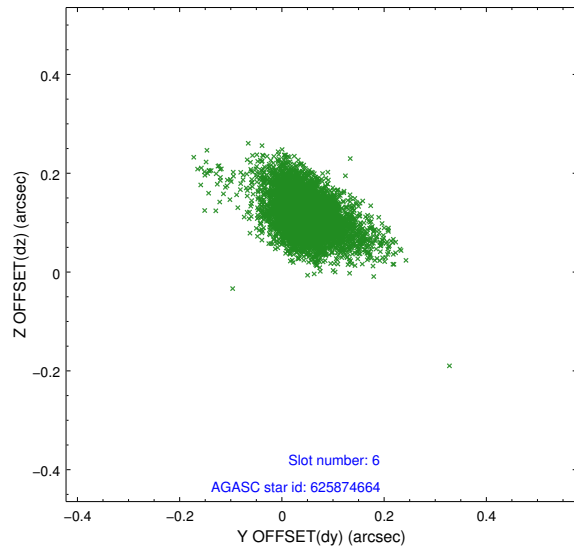
2.4.2 Slot 4



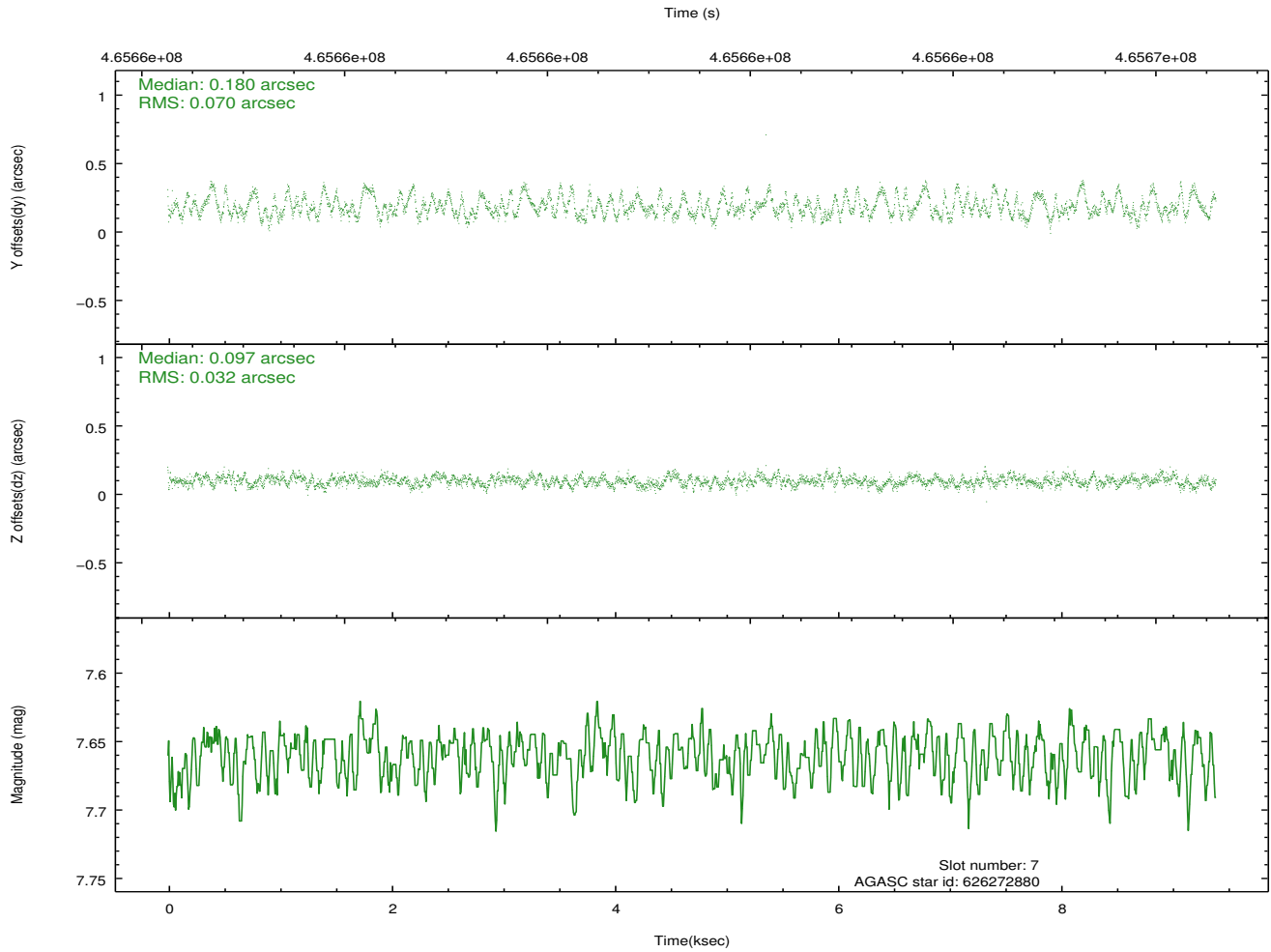
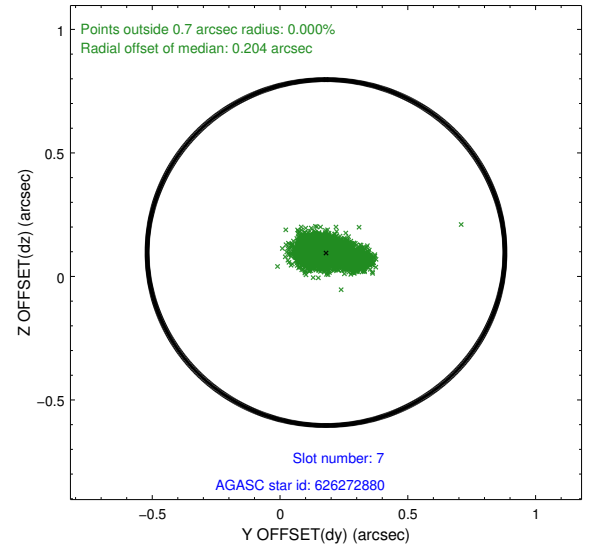
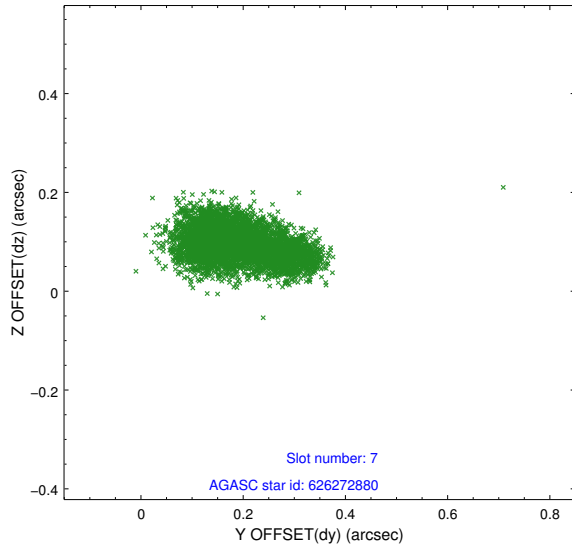
2.4.3 Slot 5



2.4.4 Slot 6

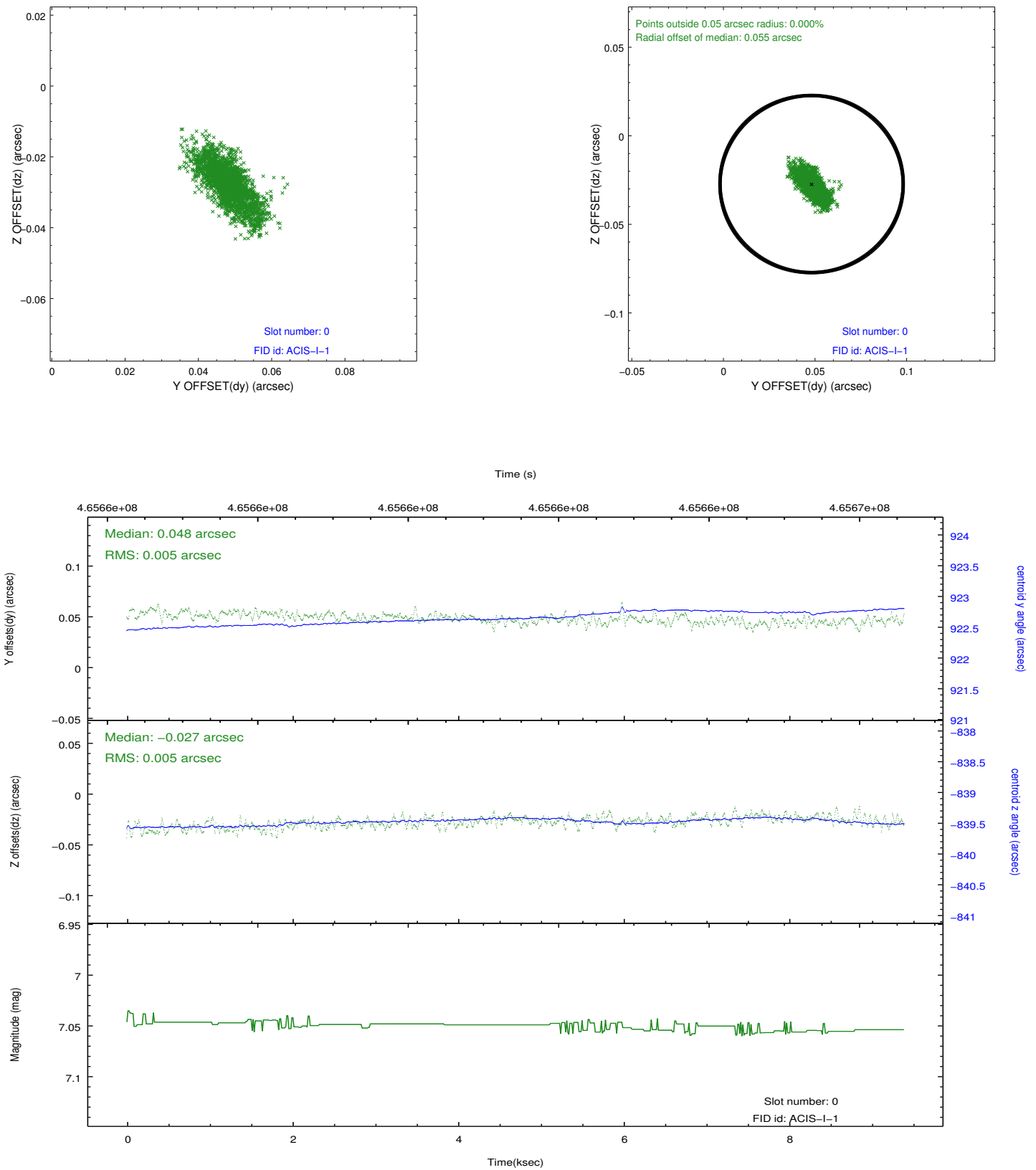


2.4.5 Slot 7

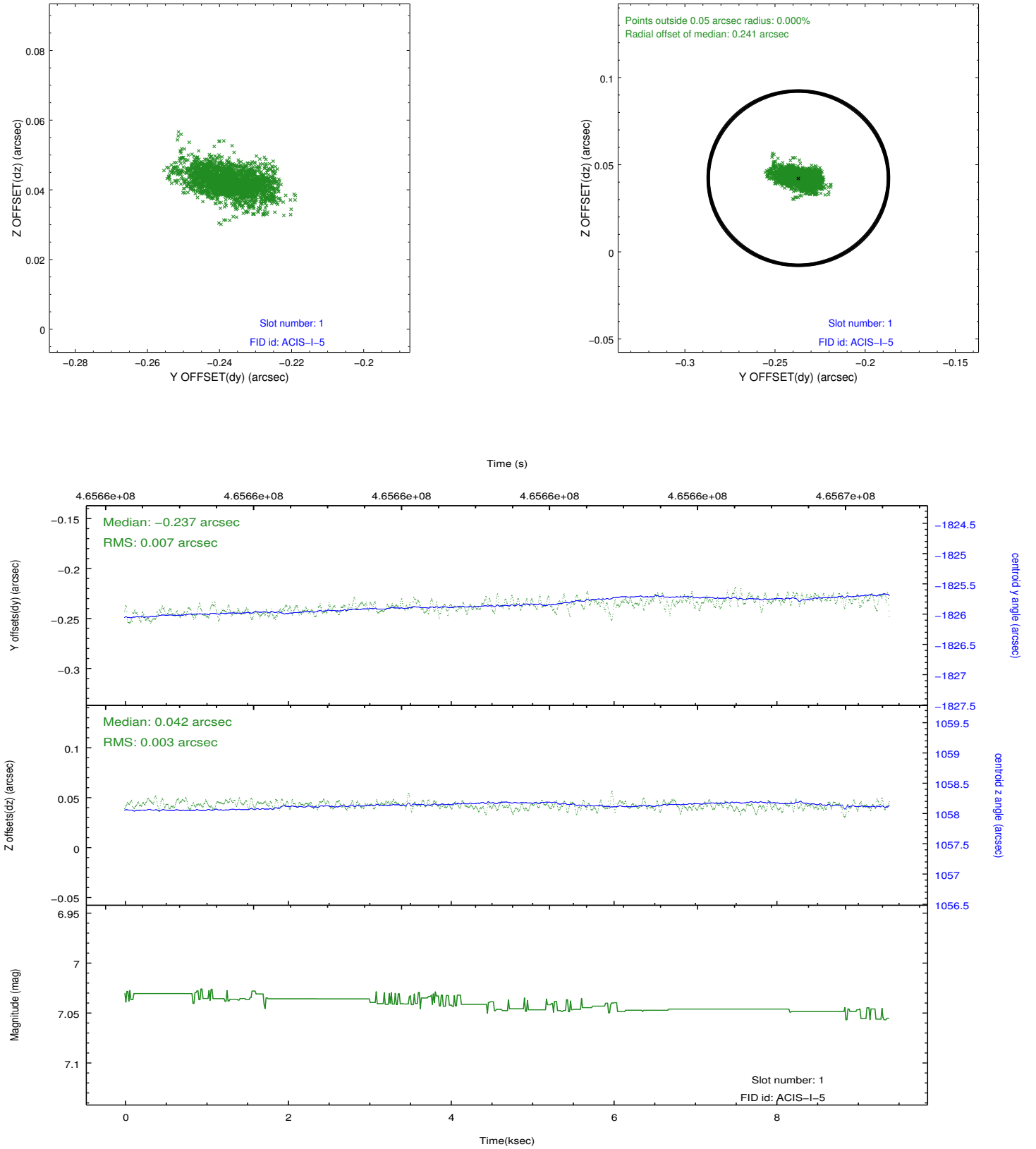


2.5 FID Slots

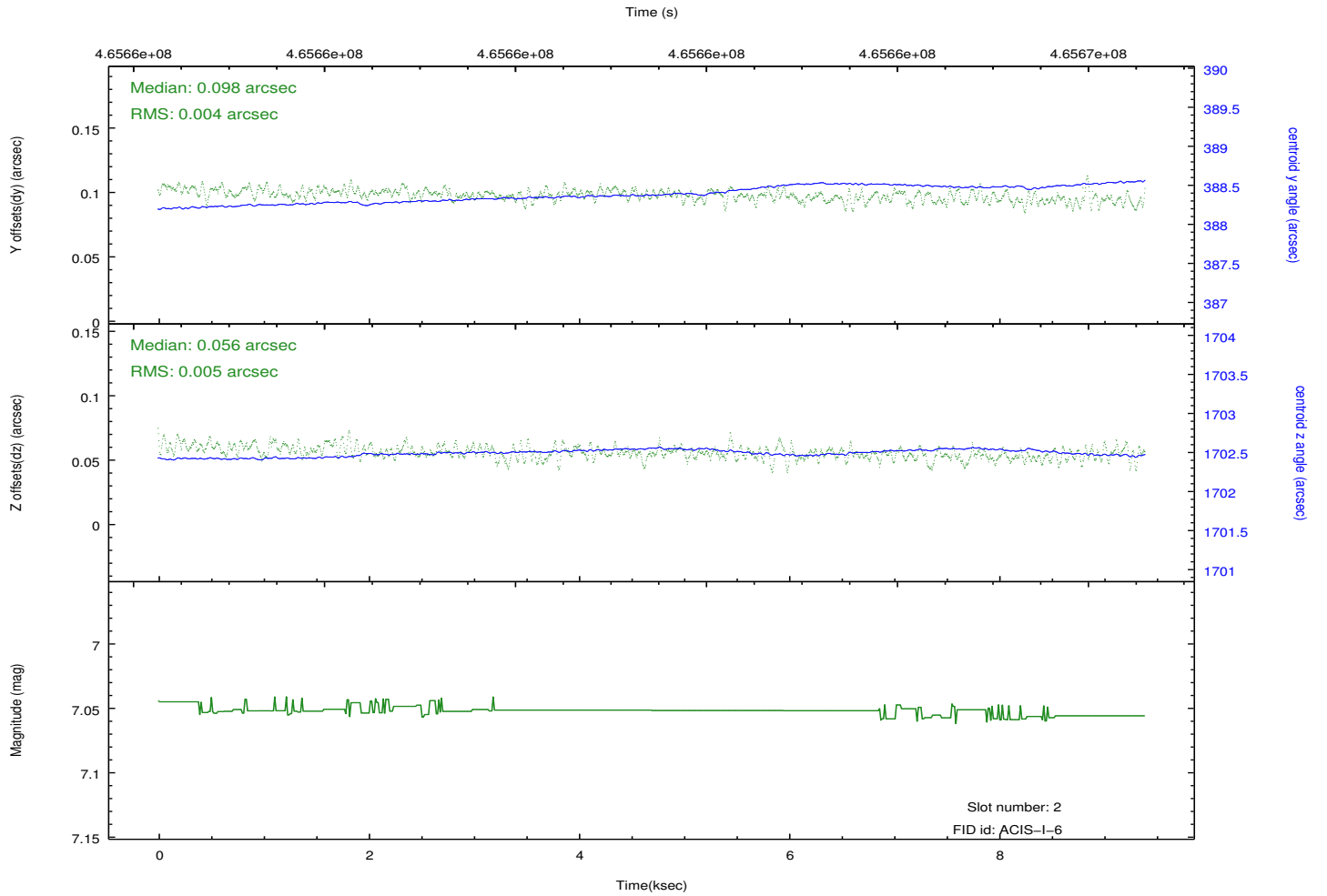
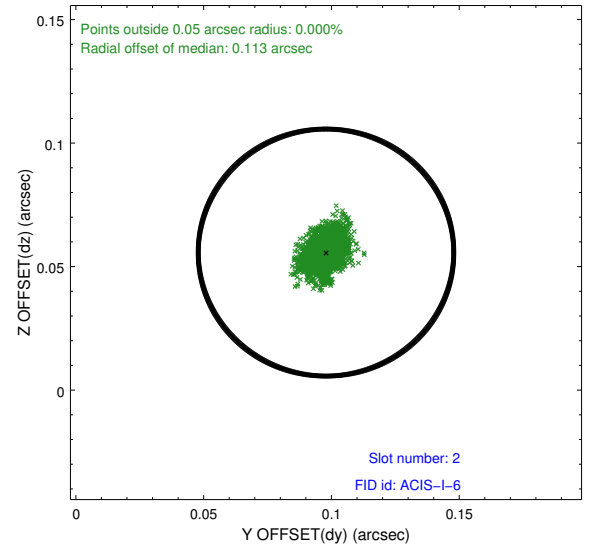
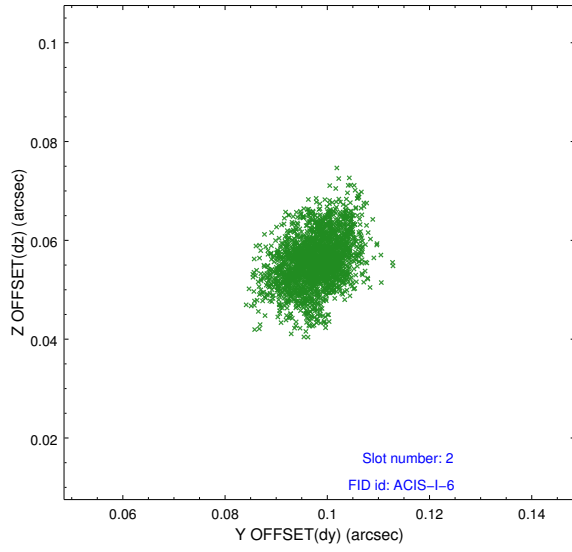
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4799999684691

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with EVLA.

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.