

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12421 - L2 Version 2
Chandra X-Ray Center

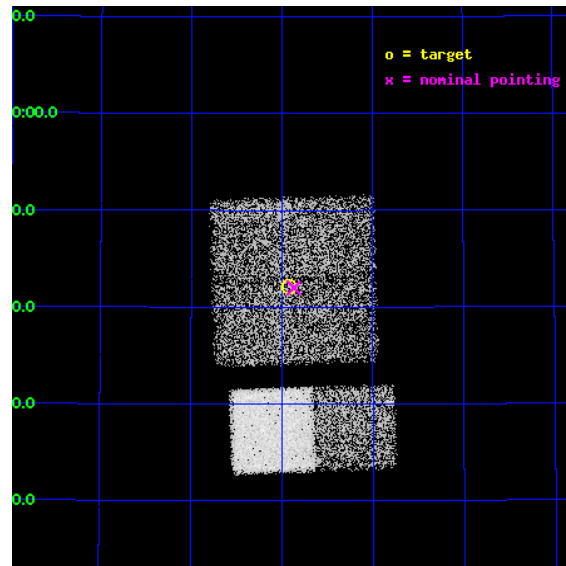
L2 Processing Date : Jul 7 2012

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1 Front

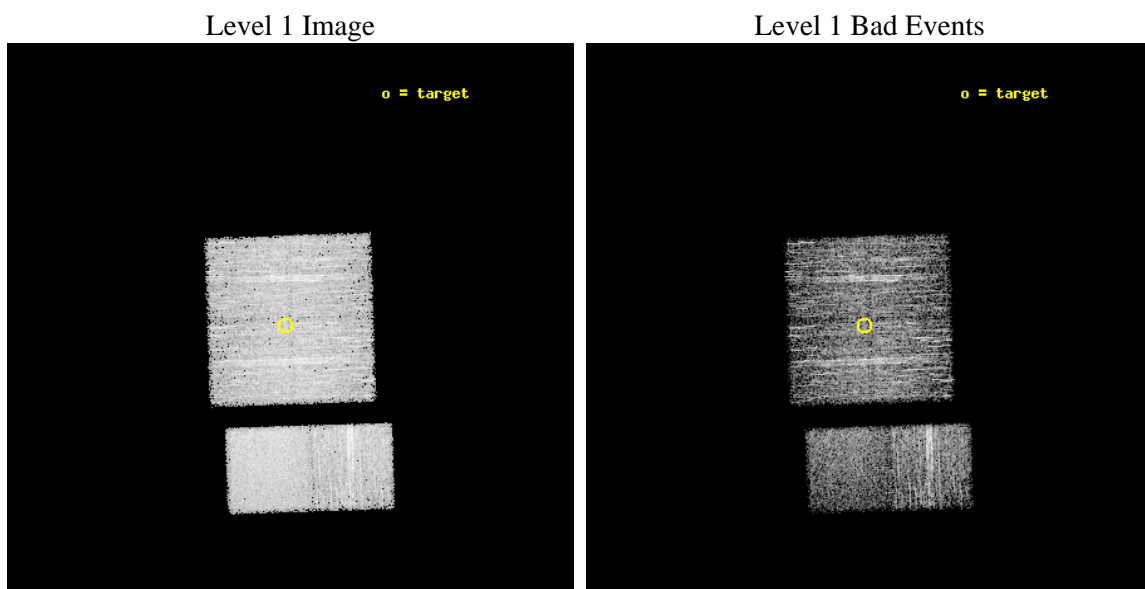
seq_num	401162	Sequence number
obs_id	12421	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	Dr. John Tomsick	Principal investigator
object	IGR J04069+5042	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	61.73	Observer's specified target RA [deg]
dec_targ	50.702	Observer's specified target Dec [deg]
ra_nom	61.716963943412	Nominal RA [deg]
dec_nom	50.700197901675	Nominal Dec [deg]
roll_nom	178.13079926061	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5051.4596179724	Sum of GTIs [s]
livetime	4987.4949946658	Livetime [s]
ontime0	5051.3364979625	Sum of GTIs [s]
ontime1	5051.3775379658	Sum of GTIs [s]
ontime2	5051.4185779691	Sum of GTIs [s]
ontime3	5051.4596179724	Sum of GTIs [s]
ontime6	5051.541697979	Sum of GTIs [s]
ontime7	5051.5006579757	Sum of GTIs [s]
l2events	35077	Number of level 2 events



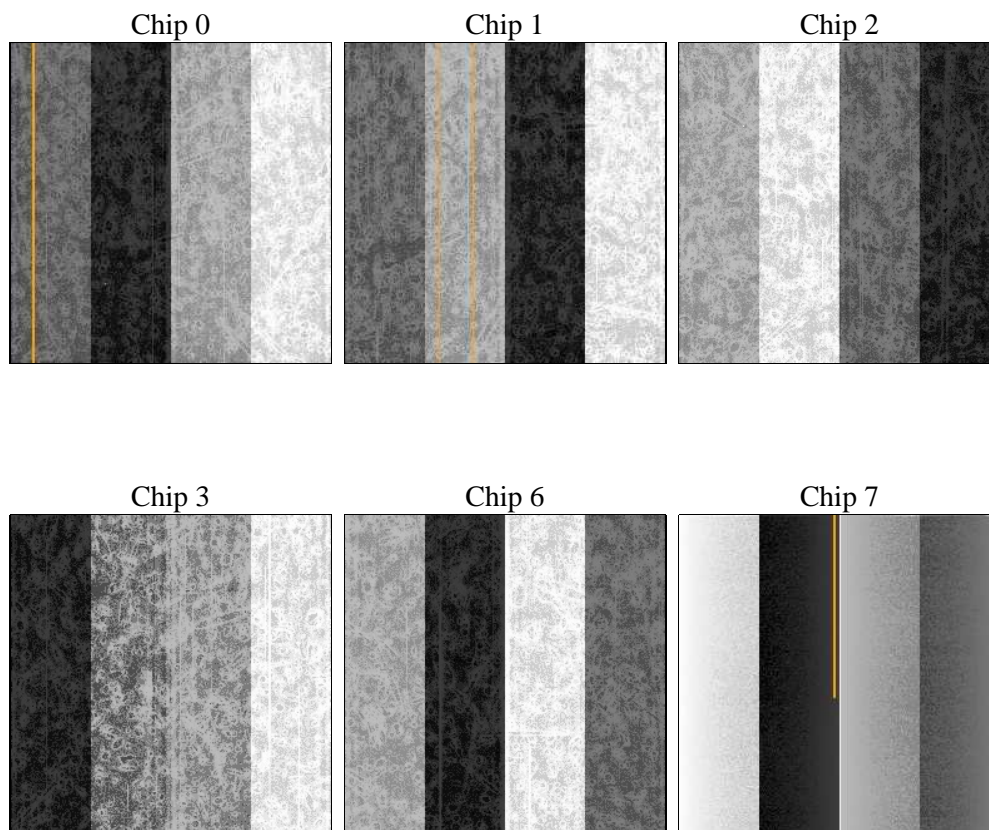
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5051.4596179724	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	5051.3364979625	Sum of GTIs [s]
date	2012-07-07T04:33:13	Date and time of file creation	ontime1	5051.3775379658	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5051.4185779691	Sum of GTIs [s]
			ontime3	5051.4596179724	Sum of GTIs [s]
			ontime6	5051.541697979	Sum of GTIs [s]
			ontime7	5051.5006579757	Sum of GTIs [s]
			l1events	213610	Number of level 1 events

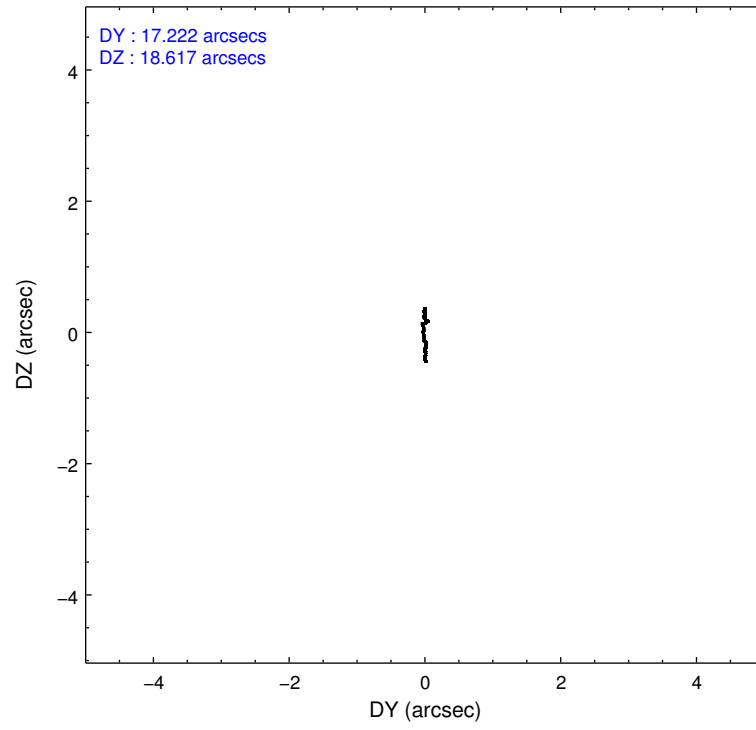
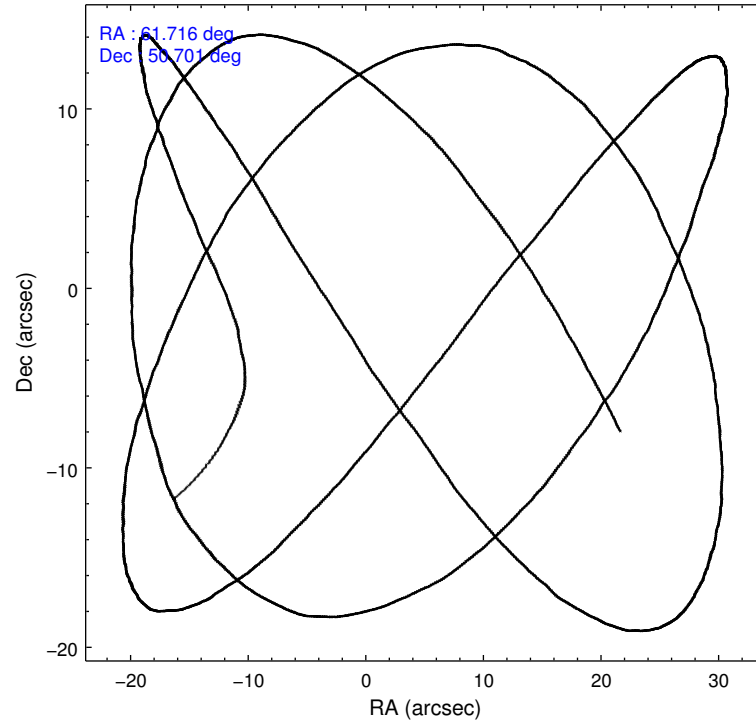
2.1.4 Events

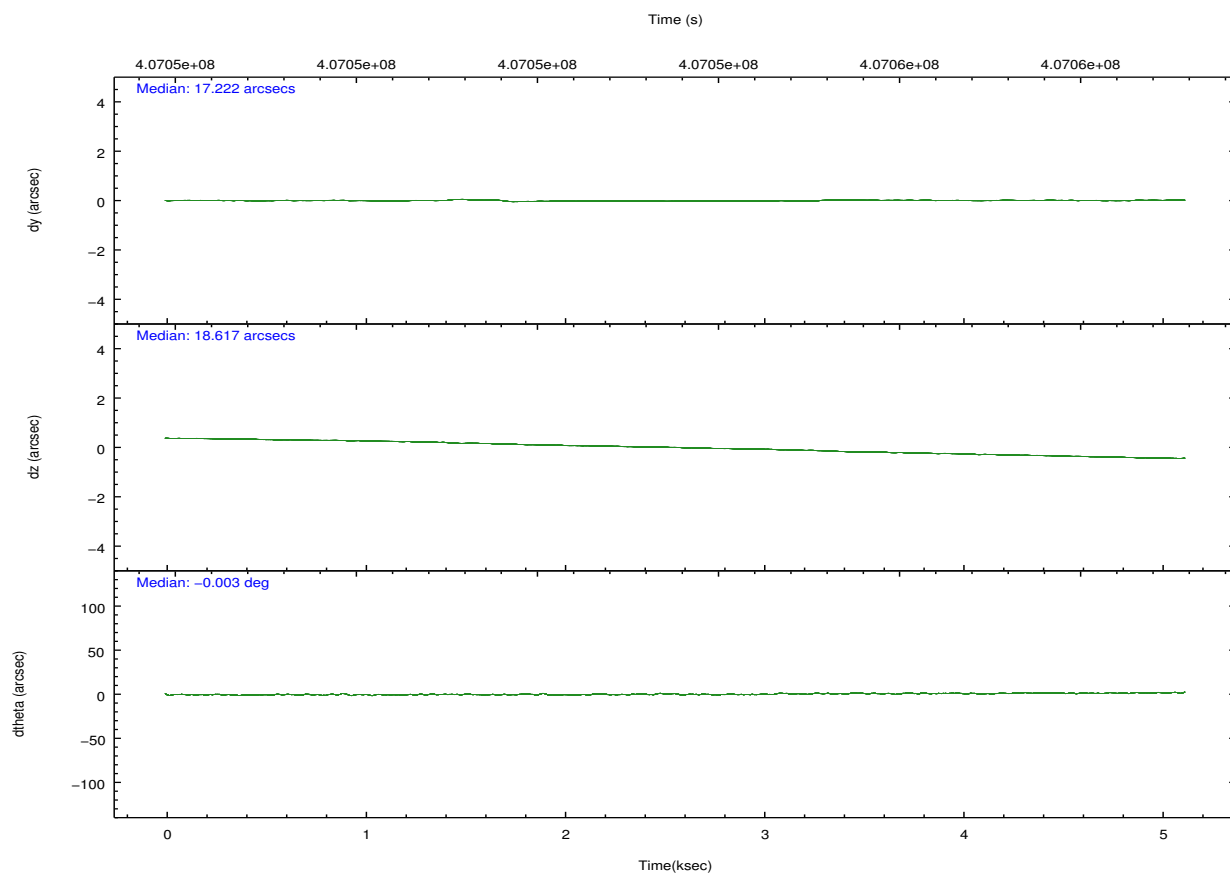
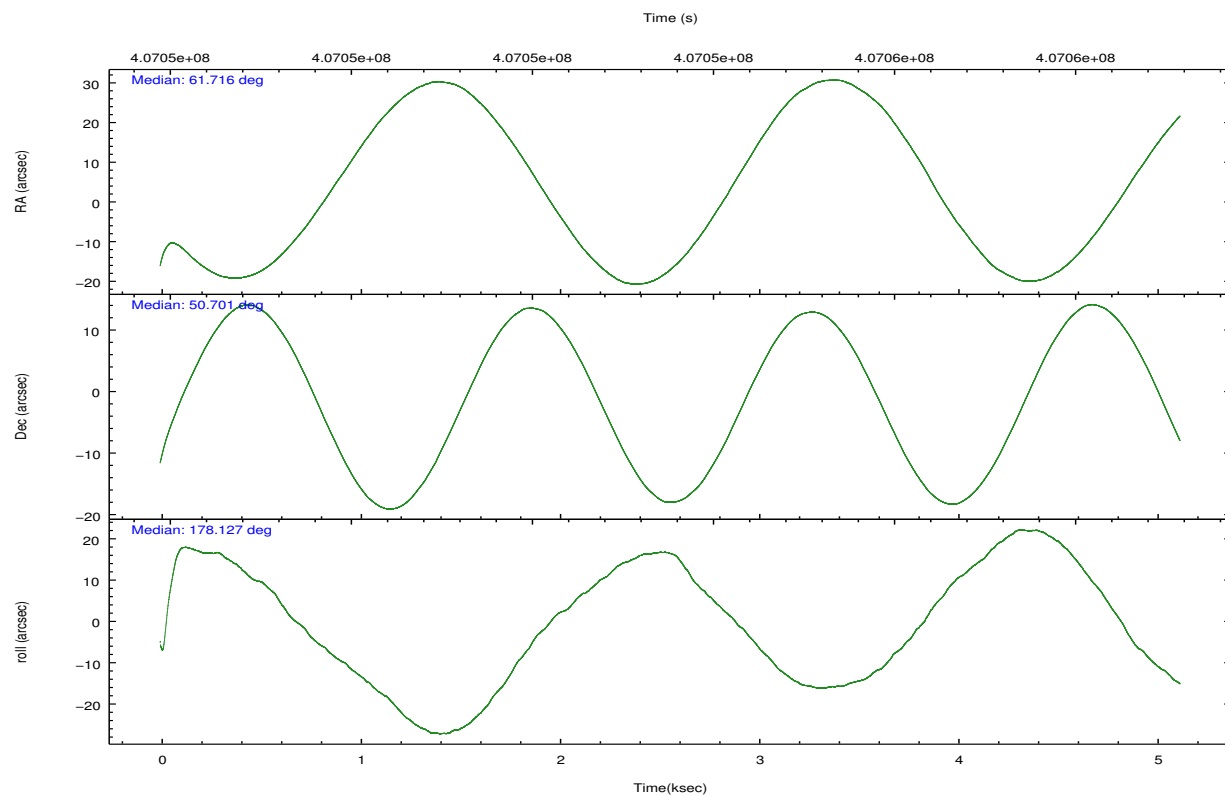
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31627	32131	36618	32760	36968	43506	grade 0 events	1276	1457	1348	1251	1420	1702
rejected events	27815	28002	32844	29148	32844	24074		4%	4%	3%	3%	3%	3%
rejected %	87%	87%	89%	88%	88%	55%	grade 1 events	25	27	27	24	21	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	938	951	933	789	945	4014
								2%	2%	2%	2%	2%	9%
							grade 3 events	416	398	389	401	428	1663
								1%	1%	1%	1%	1%	3%
							grade 4 events	390	428	408	419	444	1656
								1%	1%	1%	1%	1%	3%
							grade 5 events	1448	1581	1412	1576	1715	4484
								4%	4%	3%	4%	4%	10%
							grade 6 events	792	898	701	753	889	10413
								2%	2%	1%	2%	2%	23%
							grade 7 events	26342	26391	31400	27547	31106	19522
								83%	82%	85%	84%	84%	44%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	61.755916	61.7169639434124	CCD I2 on	Y	Y
[deg] Pointing Dec	50.712908	50.70019790167525	CCD I3 on	Y	Y
[deg] Pointing Roll	177.892012	178.1307992606118	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	407051309.184000	407050090.38368	CCD S5 on	N	N
Observation start date	2010-11-25T05:47:23	2010-11-25T05:28:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	407056309.184000	407057699.98407	On-chip summing requested	N	N
Observation end date	2010-11-25T07:10:43	2010-11-25T07:34:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



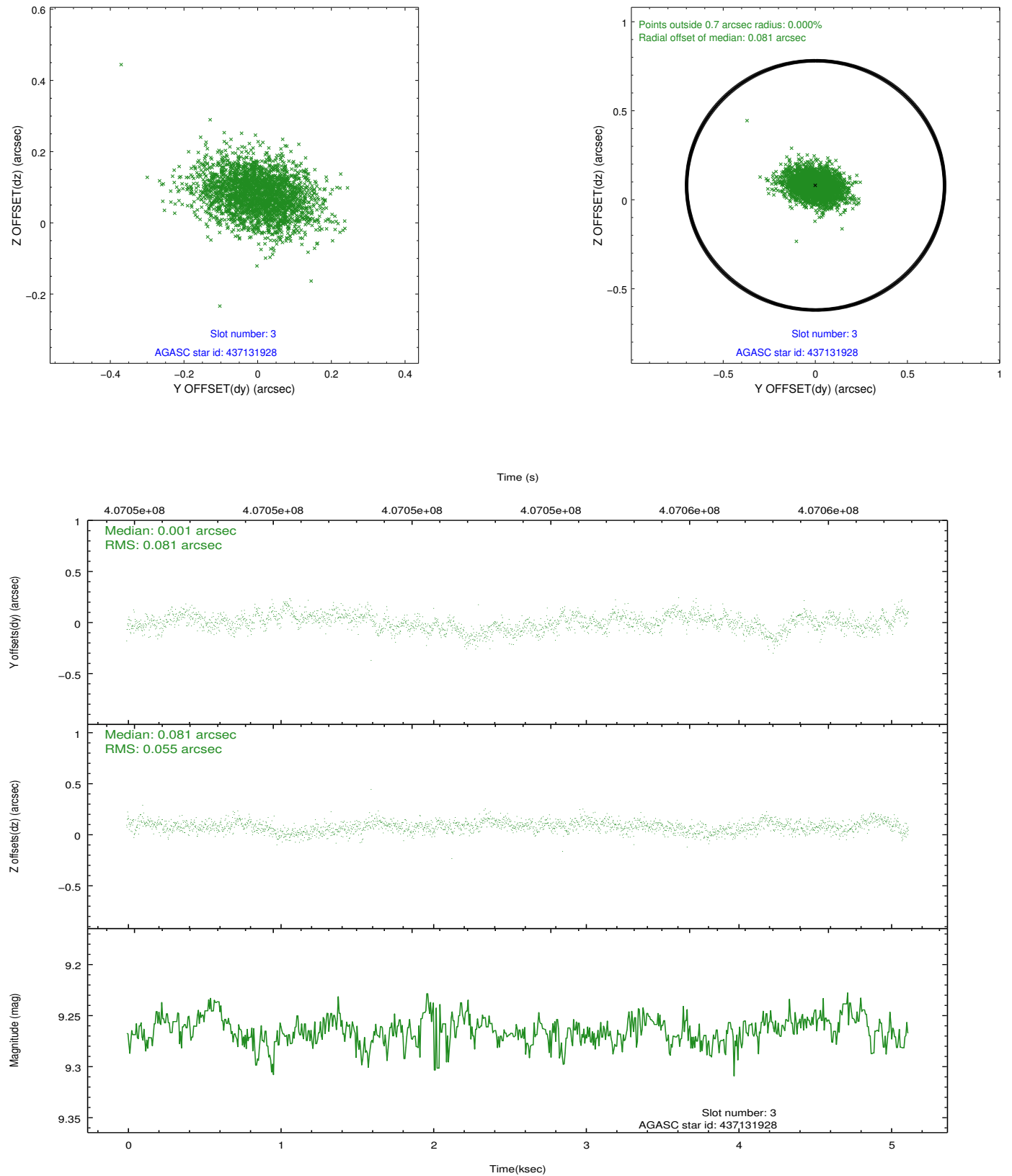


Slot Statistics

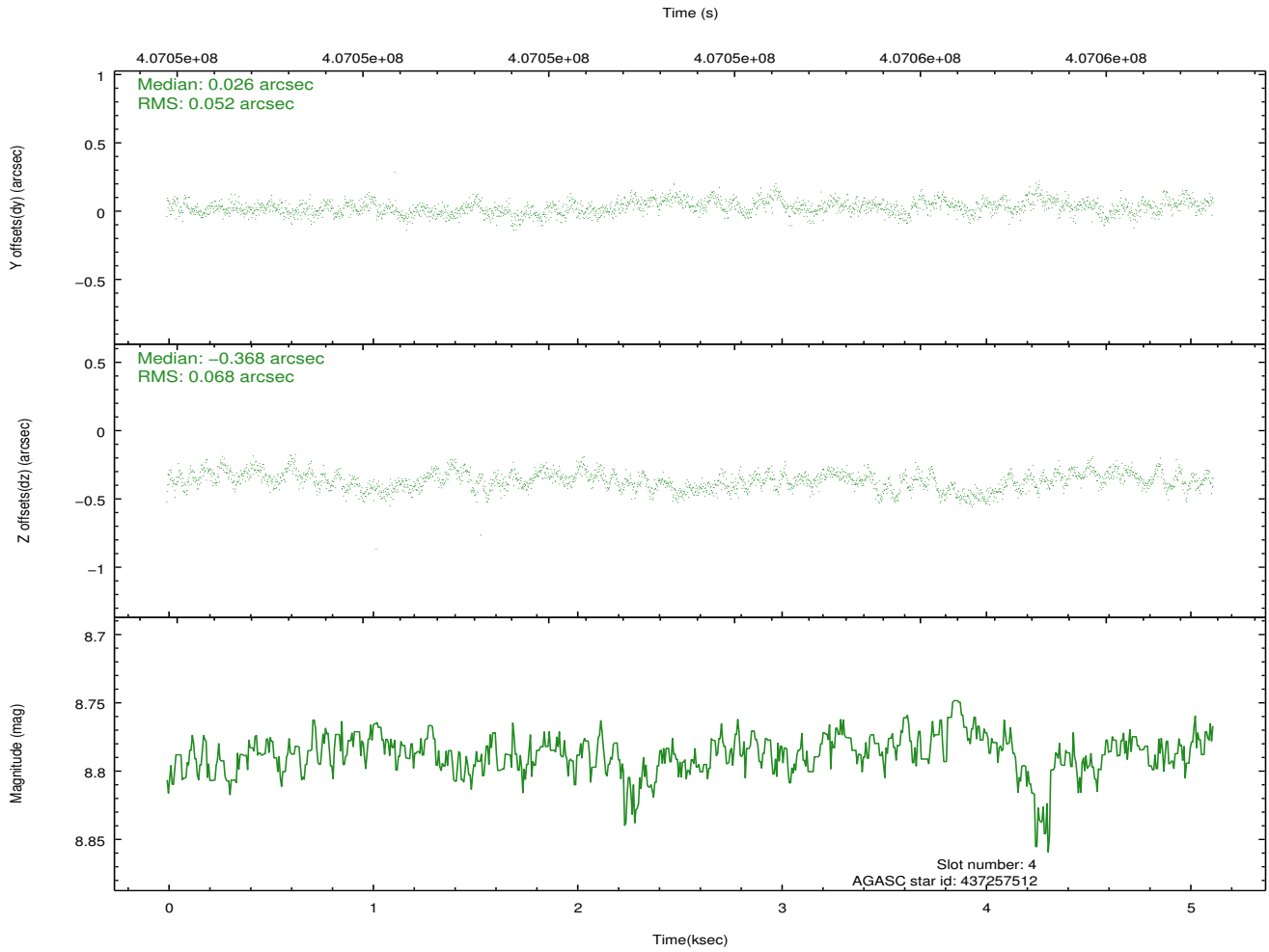
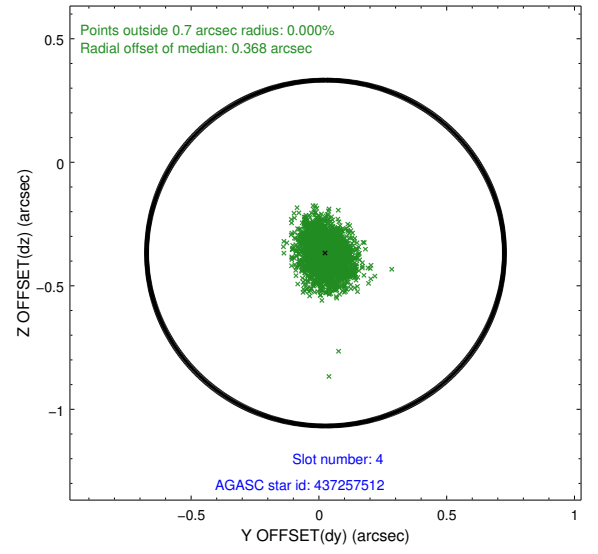
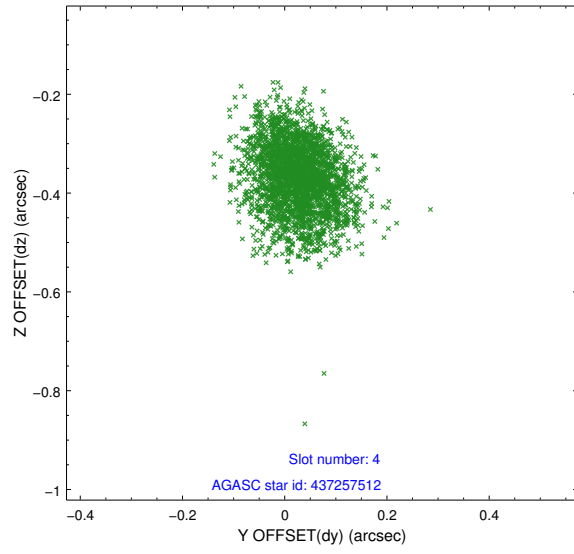
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	1249	0.025	0.030	0.008	0.015	0.000000	0.000000	922.21	-842.25
1	FID	ACIS-I-5	7.00	1249	-0.204	0.039	0.008	0.012	0.000000	0.000000	-1825.50	1054.61
2	FID	ACIS-I-6	7.02	1249	0.087	0.001	0.008	0.014	0.000000	0.000000	386.49	1700.45
3	GUIDE	437131928	9.26	2497	0.001	0.081	0.102	0.175	60.784091	50.604812	2203.35	457.81
4	GUIDE	437257512	8.79	2499	0.026	-0.368	0.090	0.147	62.086535	50.115995	-842.44	2118.82
5	GUIDE	437262440	8.61	2498	-0.130	-0.091	0.084	0.134	61.981144	50.234842	-583.50	1702.08
6	GUIDE	437659880	9.37	2490	-0.059	0.022	0.112	0.184	61.326946	50.641466	967.53	292.39
7	GUIDE	437795288	9.45	2490	0.167	0.355	0.103	0.164	62.717628	50.736824	-2186.81	-179.17

2.4 Star Slots

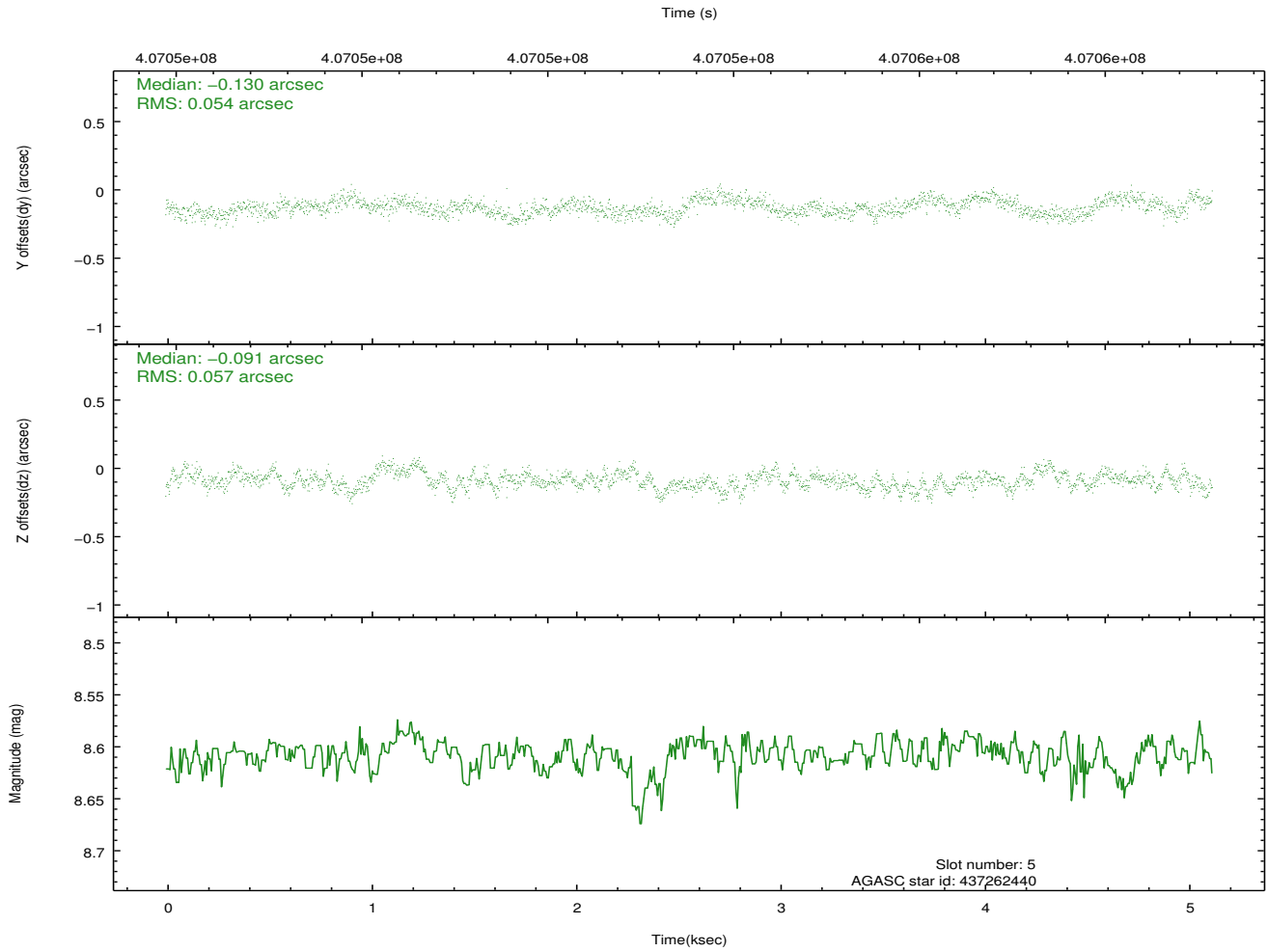
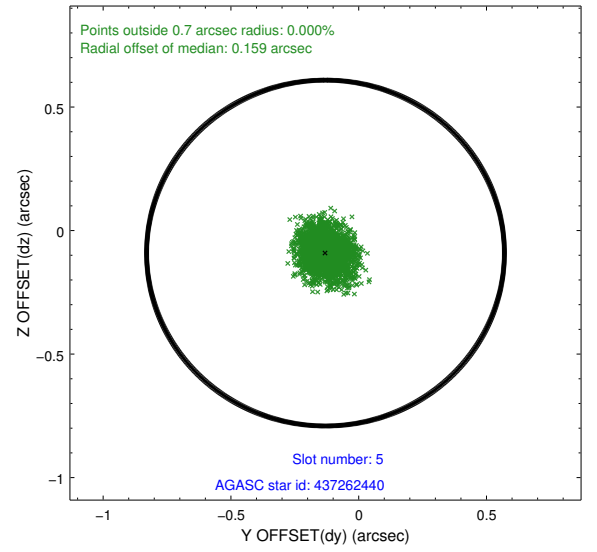
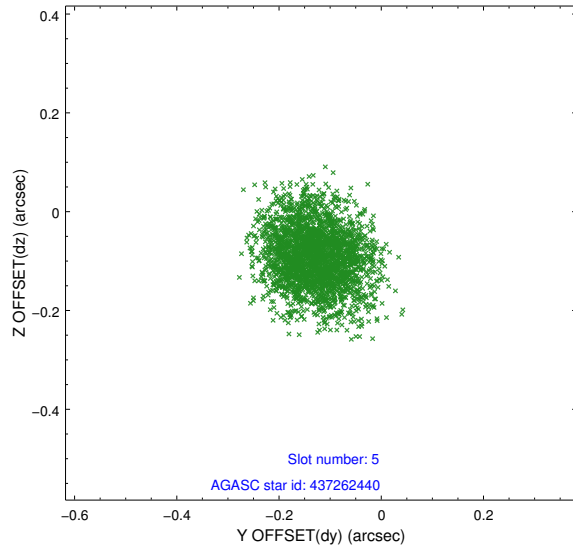
2.4.1 Slot 3



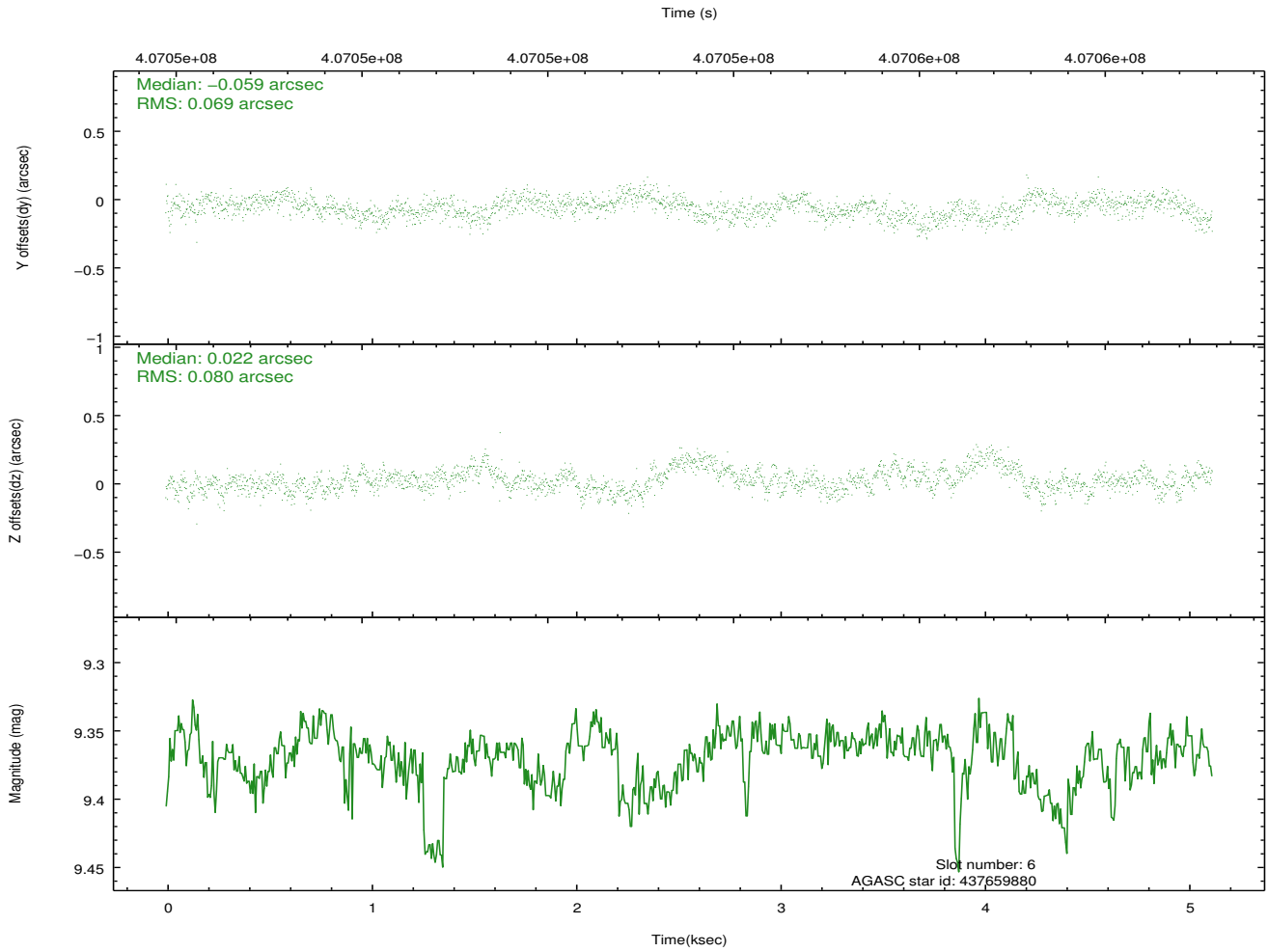
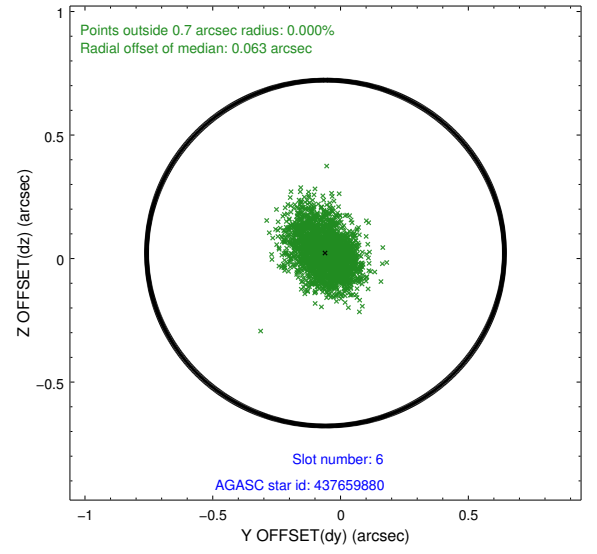
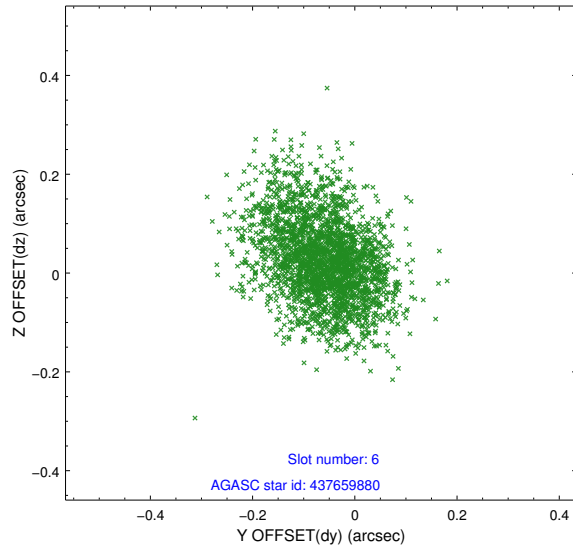
2.4.2 Slot 4



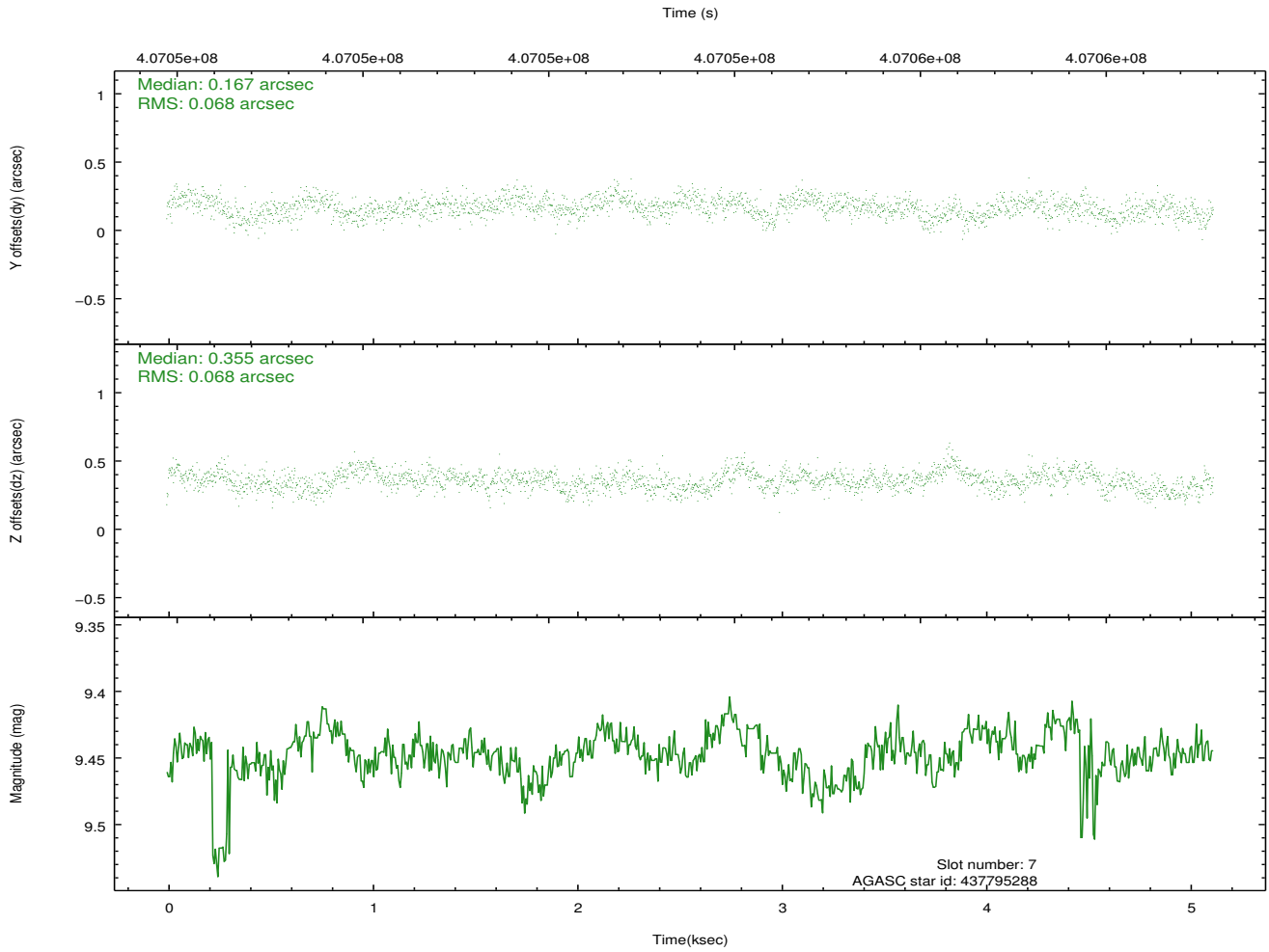
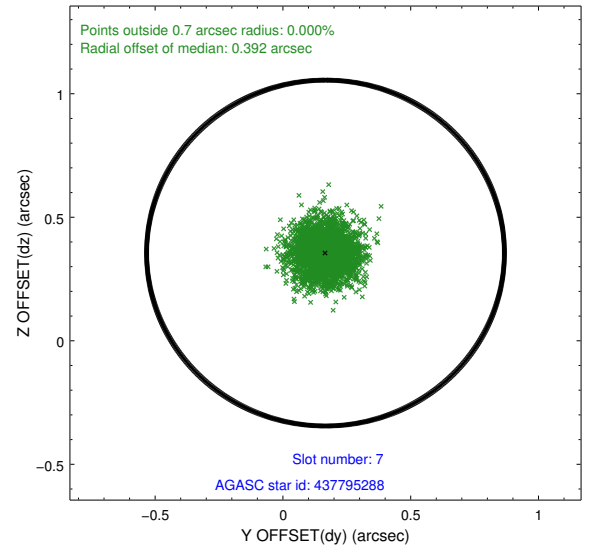
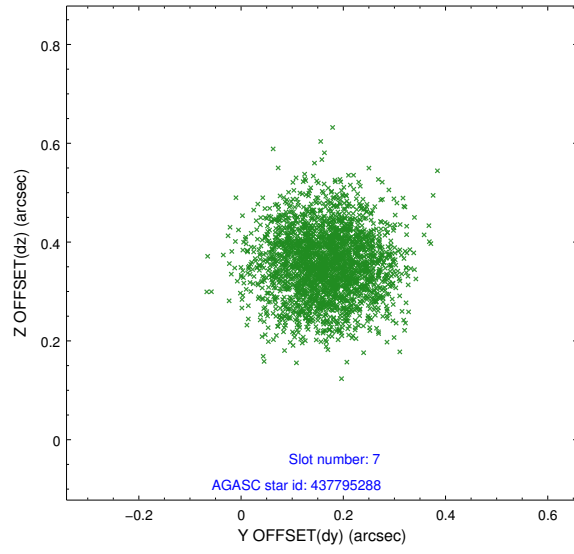
2.4.3 Slot 5



2.4.4 Slot 6

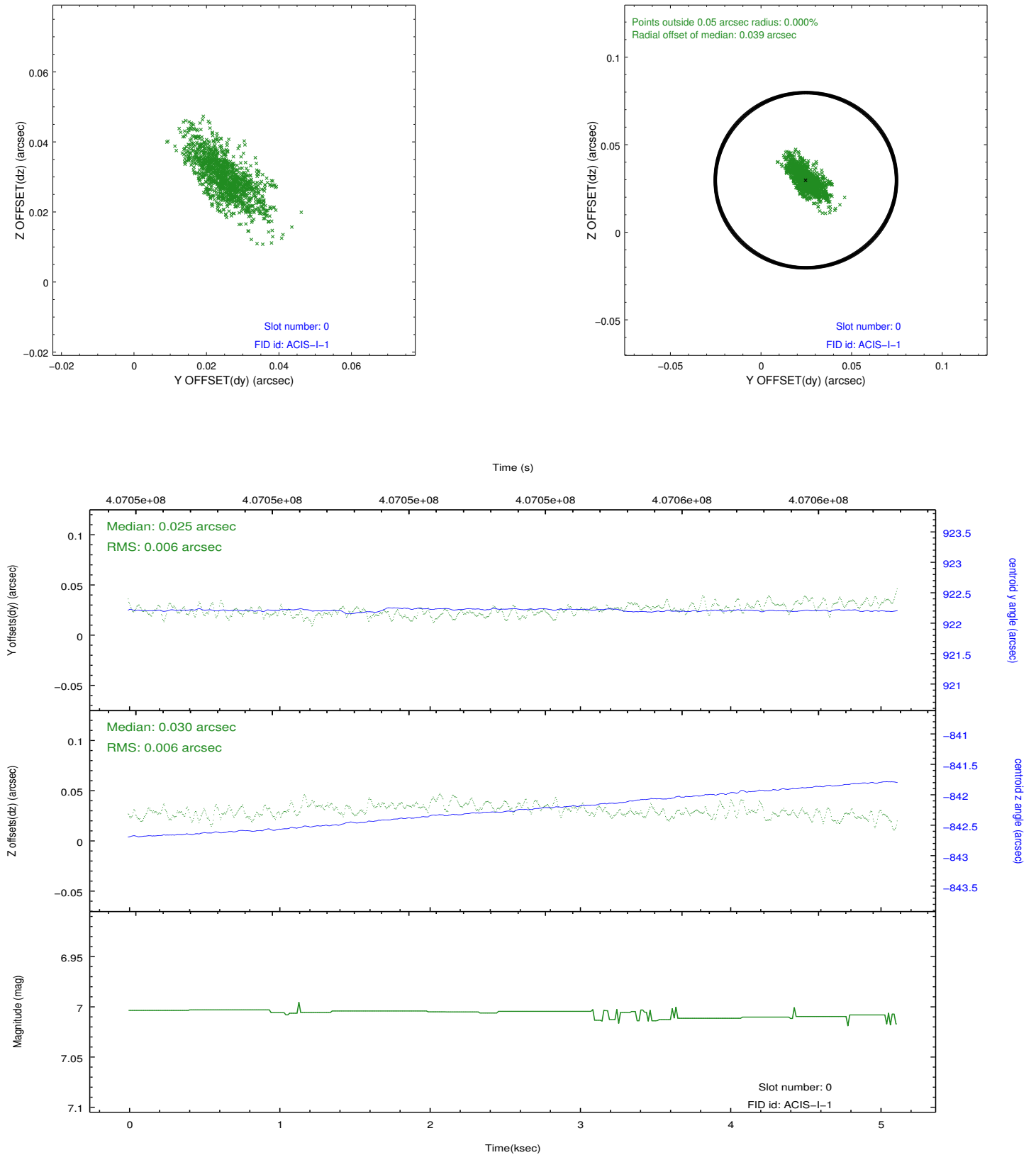


2.4.5 Slot 7

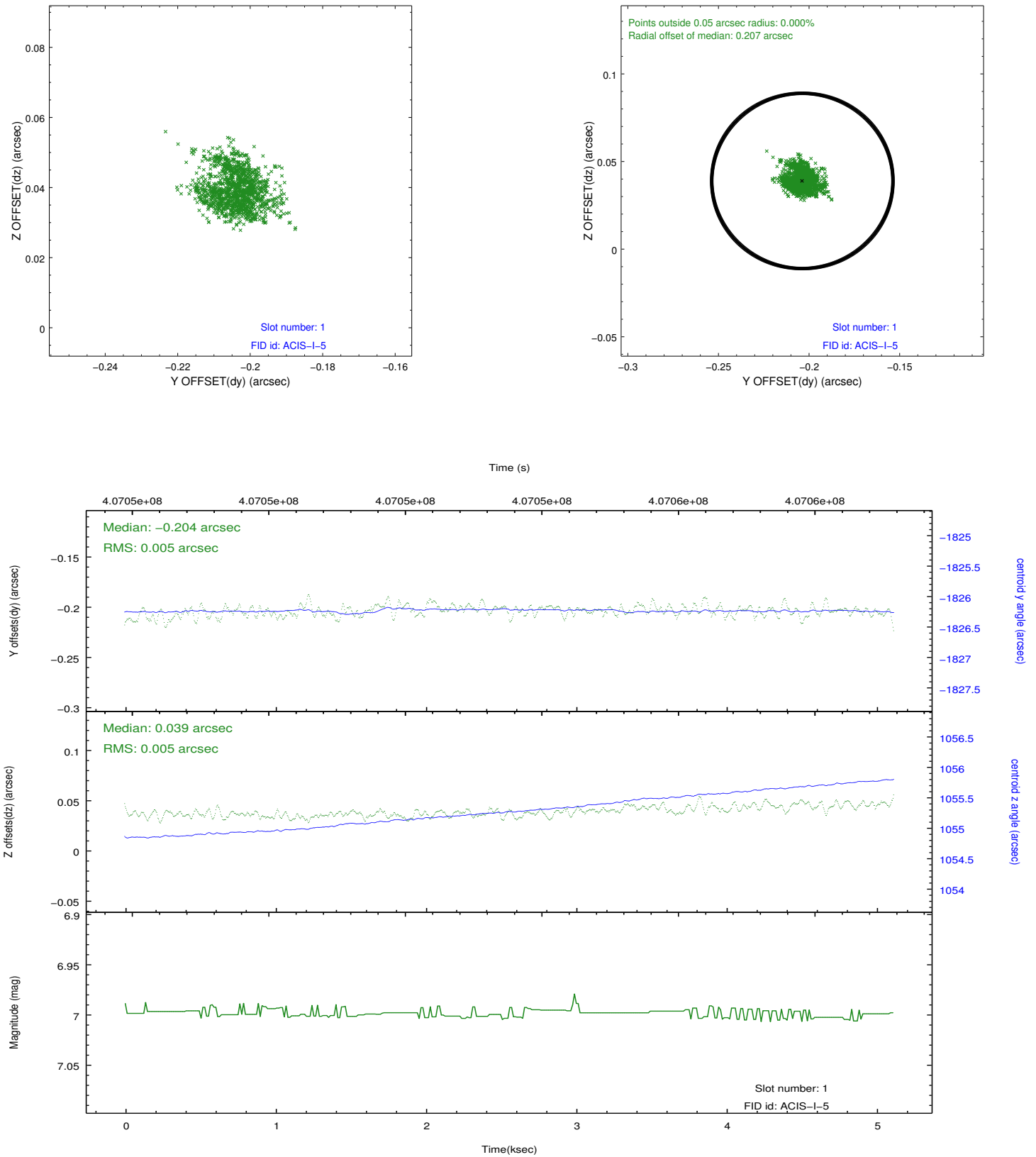


2.5 FID Slots

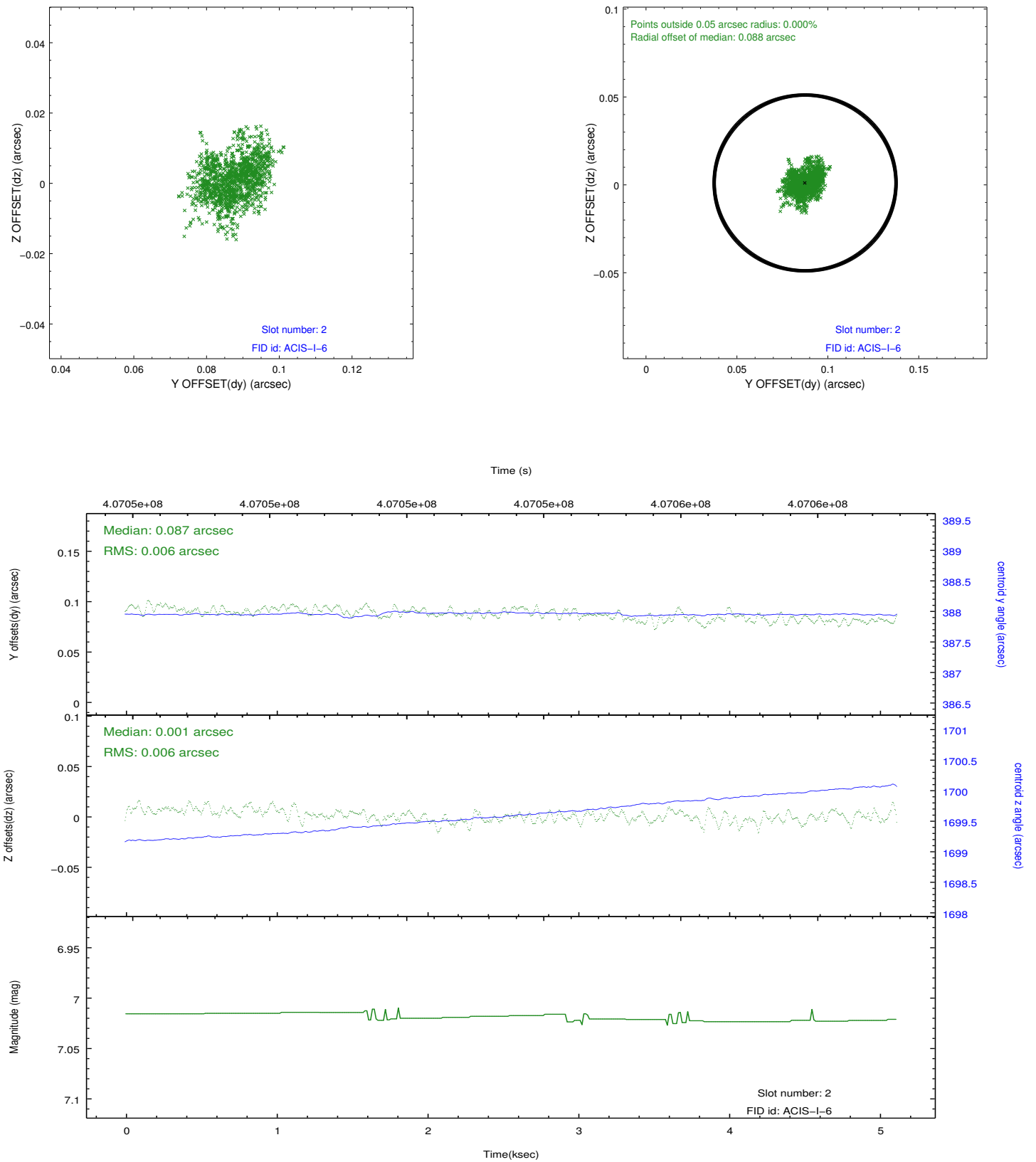
2.5.1 Slot 0



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)	2012.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0514596135616

A.2 Comments