

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15793 - L2 Version 2
Chandra X-Ray Center

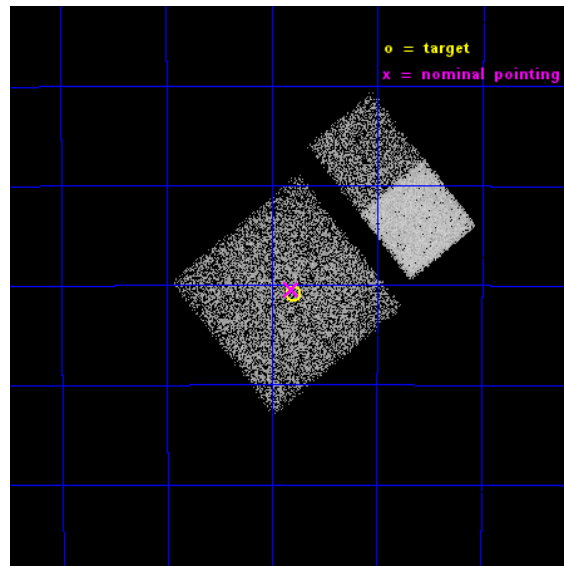
L2 Processing Date : Dec 8 2014

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1 Front

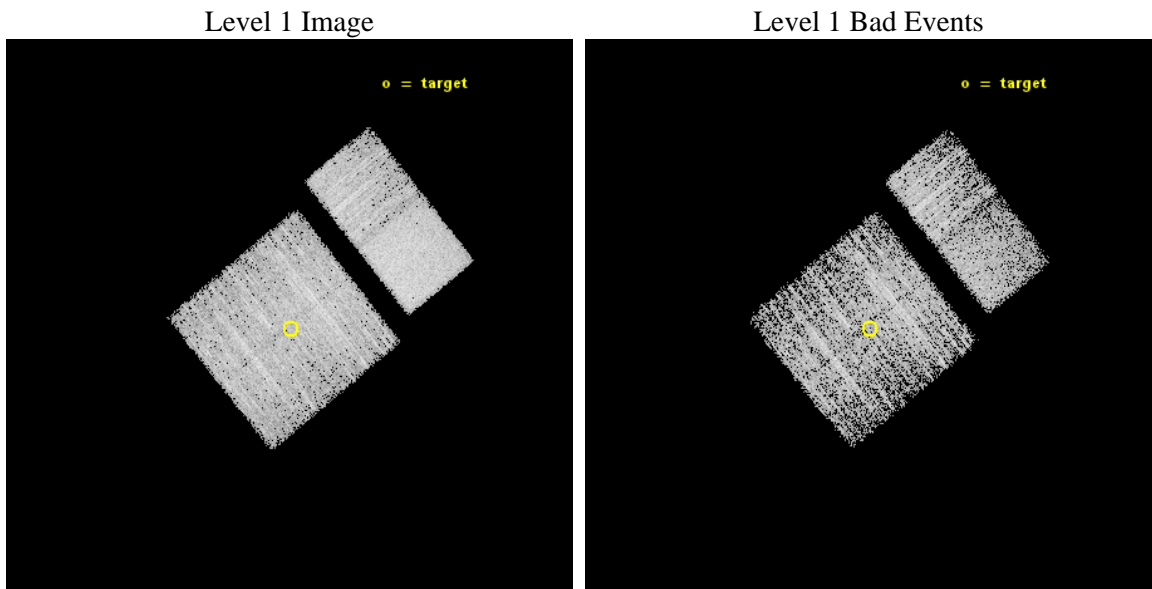
seq_num	401590	Sequence number
obs_id	15793	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	Dr. John Tomsick	Principal investigator
object	IGR J08297-4250	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	127.45	Observer's specified target RA [deg]
dec_targ	-42.848	Observer's specified target Dec [deg]
ra_nom	127.45343554094	Nominal RA [deg]
dec_nom	-42.840743073926	Nominal Dec [deg]
roll_nom	50.957351895729	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4971.590434432	Sum of GTIs [s]
livetime	4908.6371628189	Livetime [s]
ontime0	4971.4673144221	Sum of GTIs [s]
ontime1	4971.5083544254	Sum of GTIs [s]
ontime2	4971.5493944287	Sum of GTIs [s]
ontime3	4971.590434432	Sum of GTIs [s]
ontime6	4971.6725144386	Sum of GTIs [s]
ontime7	4971.6314744353	Sum of GTIs [s]
l2events	34568	Number of level 2 events



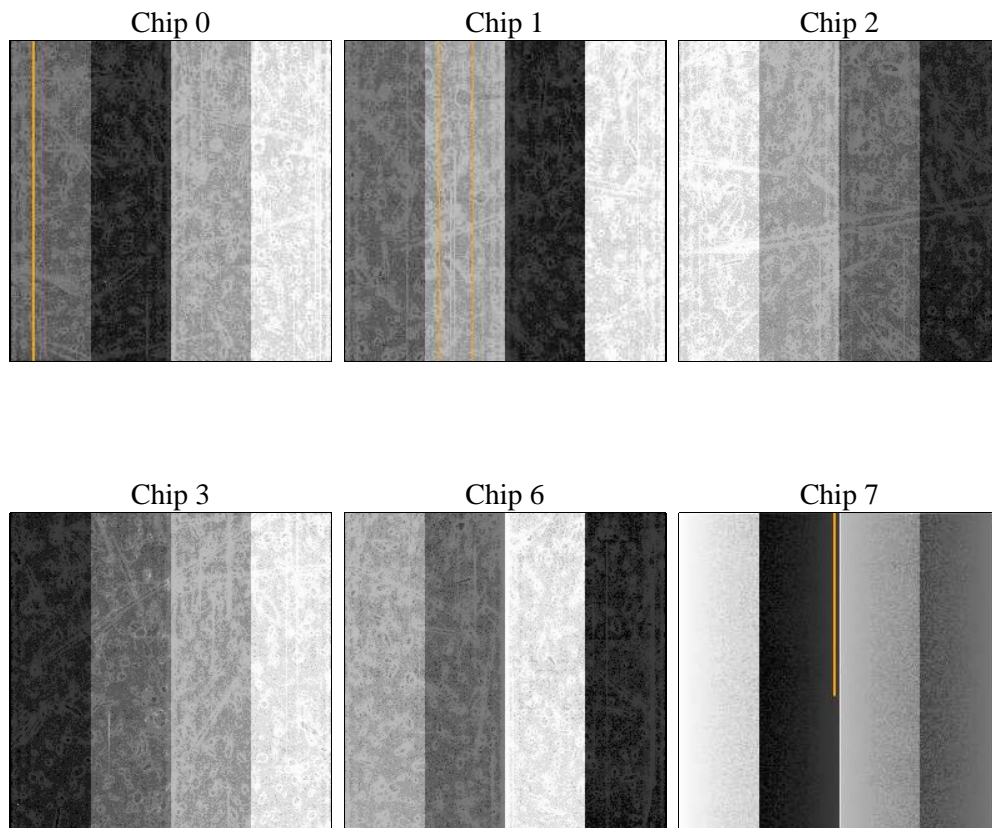
2 OBI

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	10.3.1	Processing system revision	ontime	4971.590434432	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	4971.4673144221	Sum of GTIs [s]
date	2014-12-08T07:42:49	Date and time of file creation	ontime1	4971.5083544254	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4971.5493944287	Sum of GTIs [s]
			ontime3	4971.590434432	Sum of GTIs [s]
			ontime6	4971.6725144386	Sum of GTIs [s]
			ontime7	4971.6314744353	Sum of GTIs [s]
			l1events	152469	Number of level 1 events

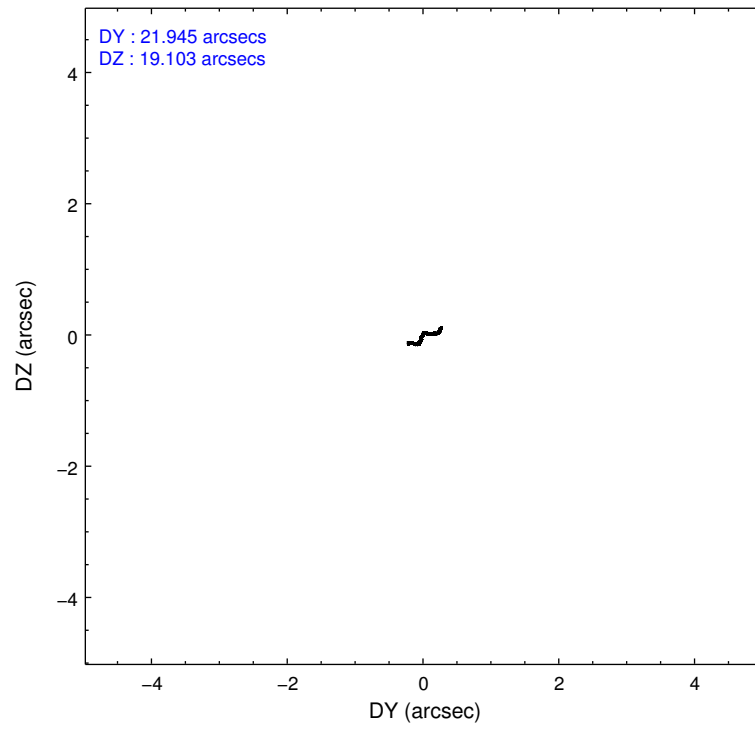
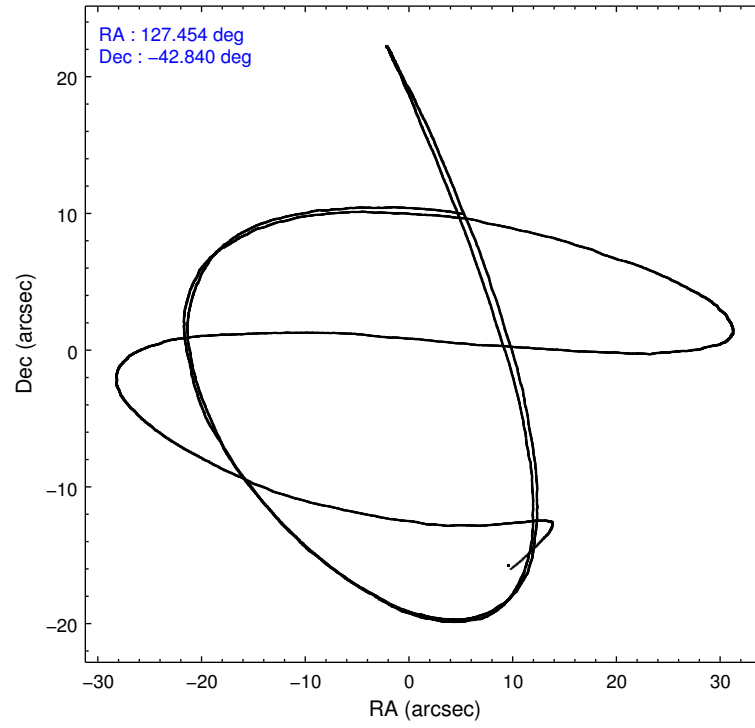
2.1.4 Events

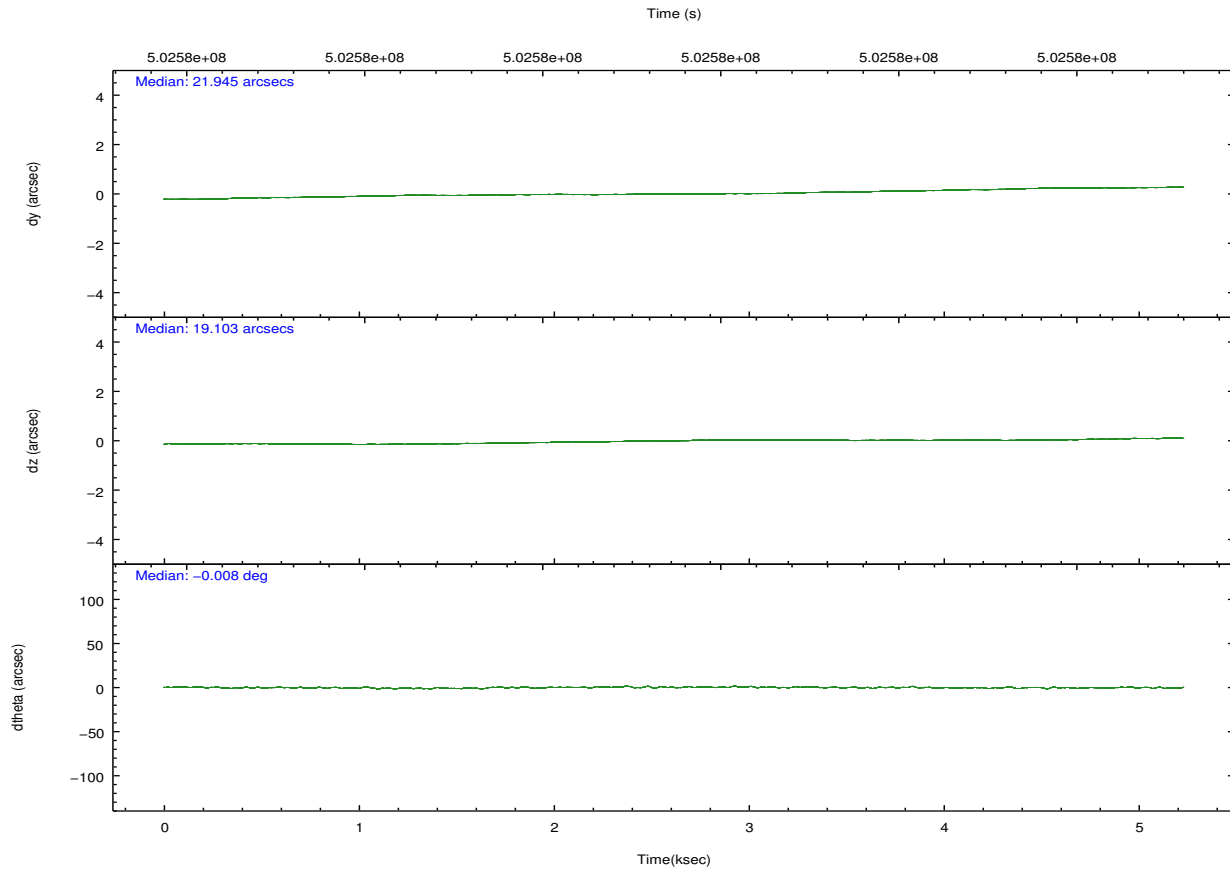
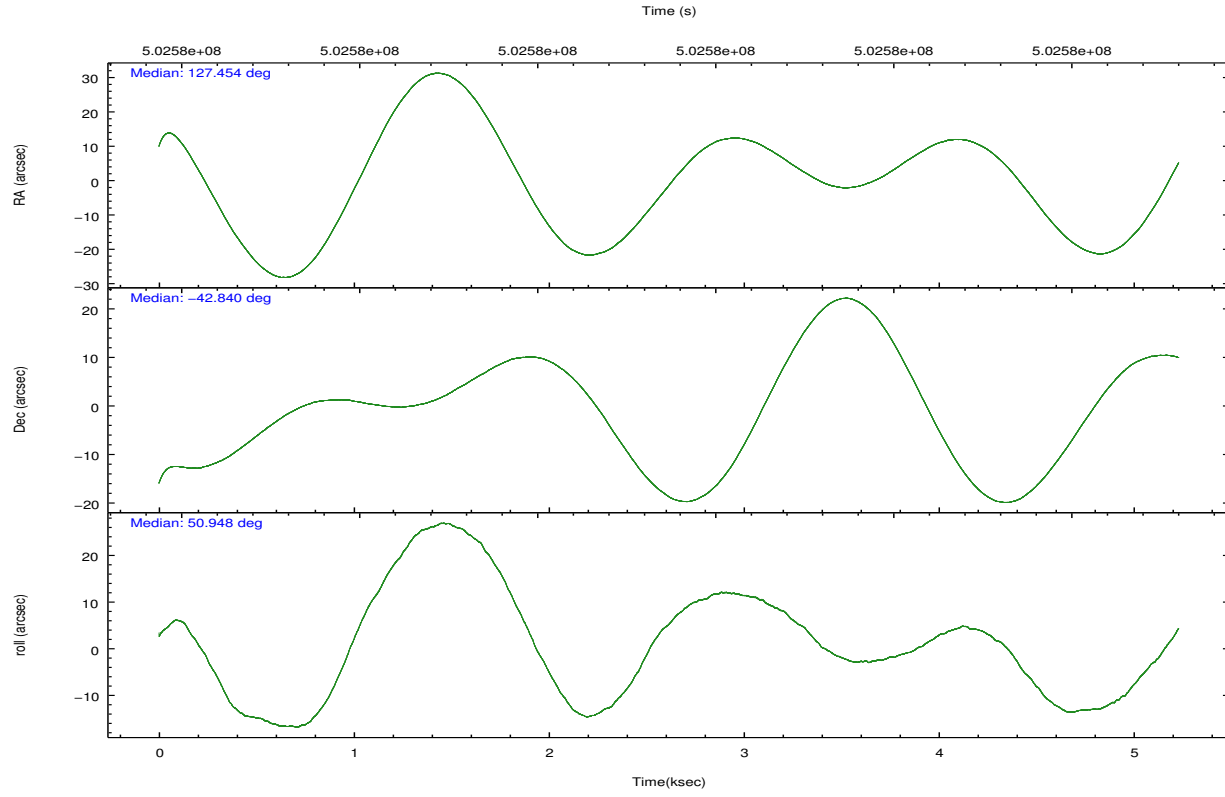
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	22609	21241	23711	24124	25176	35608	grade 0 events	2224	2171	2236	2321	1461	3118
rejected events	18452	16986	19654	20053	21676	18326		9%	10%	9%	9%	5%	8%
rejected %	81%	79%	82%	83%	86%	51%	grade 1 events	15	10	17	15	14	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	792	791	692	662	688	3592
								3%	3%	2%	2%	2%	10%
							grade 3 events	320	312	321	283	288	1523
								1%	1%	1%	1%	1%	4%
							grade 4 events	266	315	291	290	321	1413
								1%	1%	1%	1%	1%	3%
							grade 5 events	1032	1146	976	1261	1292	3335
								4%	5%	4%	5%	5%	9%
							grade 6 events	557	669	518	518	747	7654
								2%	3%	2%	2%	2%	21%
							grade 7 events	17403	15827	18660	18774	20365	14939
								76%	74%	78%	77%	80%	41%

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	127.448335	127.4534355409392	CCD I2 on	Y	Y
[deg] Pointing Dec	-42.867660	-42.84074307392633	CCD I3 on	Y	Y
[deg] Pointing Roll	50.745206	50.95735189572896	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)	502576357.184000	502575354.76522	CCD S5 on	N	N
Observation start date	2013-12-04T20:31:30	2013-12-04T20:15:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	502581357.184000	502581948.59058	On-chip summing requested	N	N
Observation end date	2013-12-04T21:54:50	2013-12-04T22:05:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



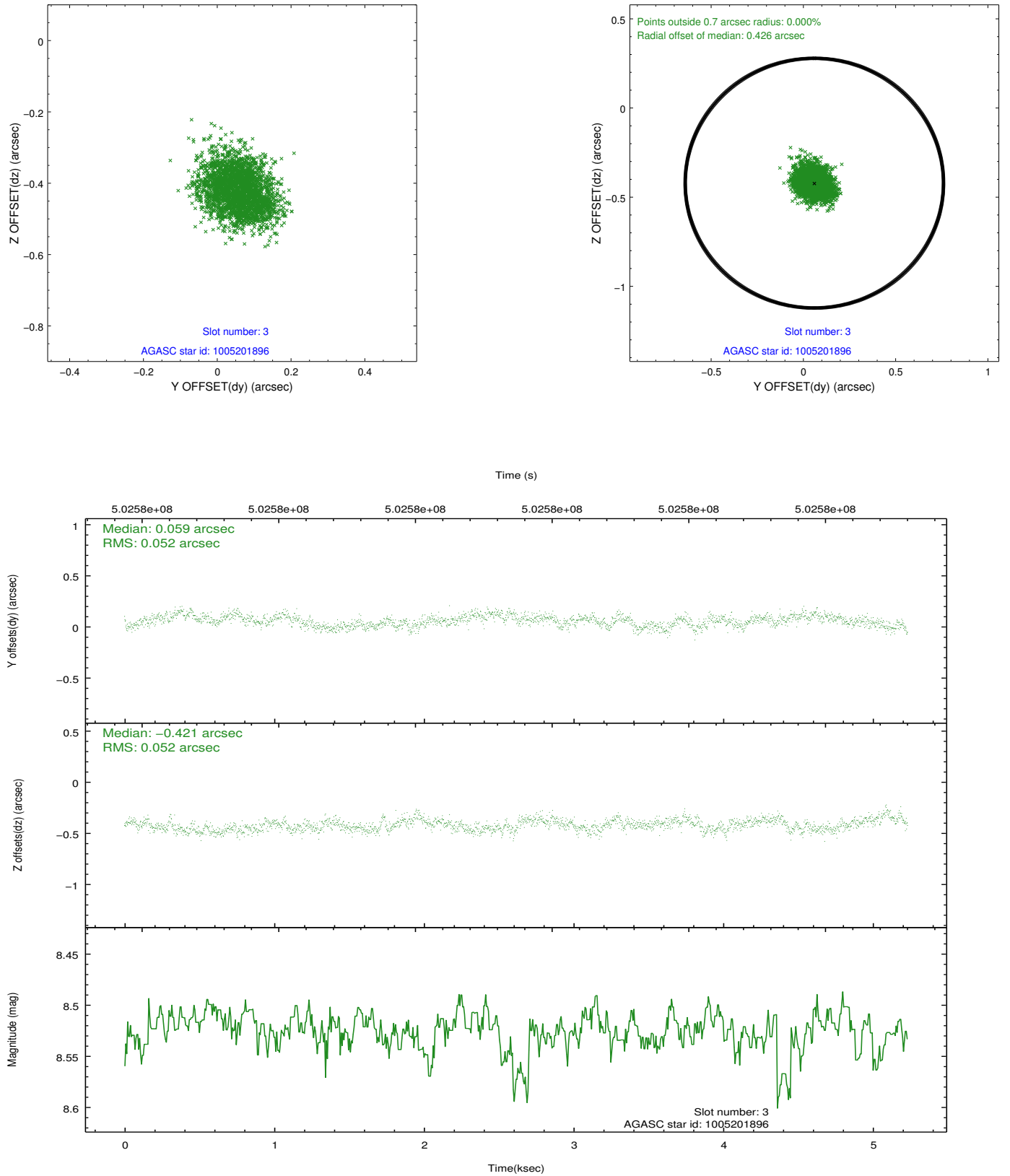


Slot Statistics

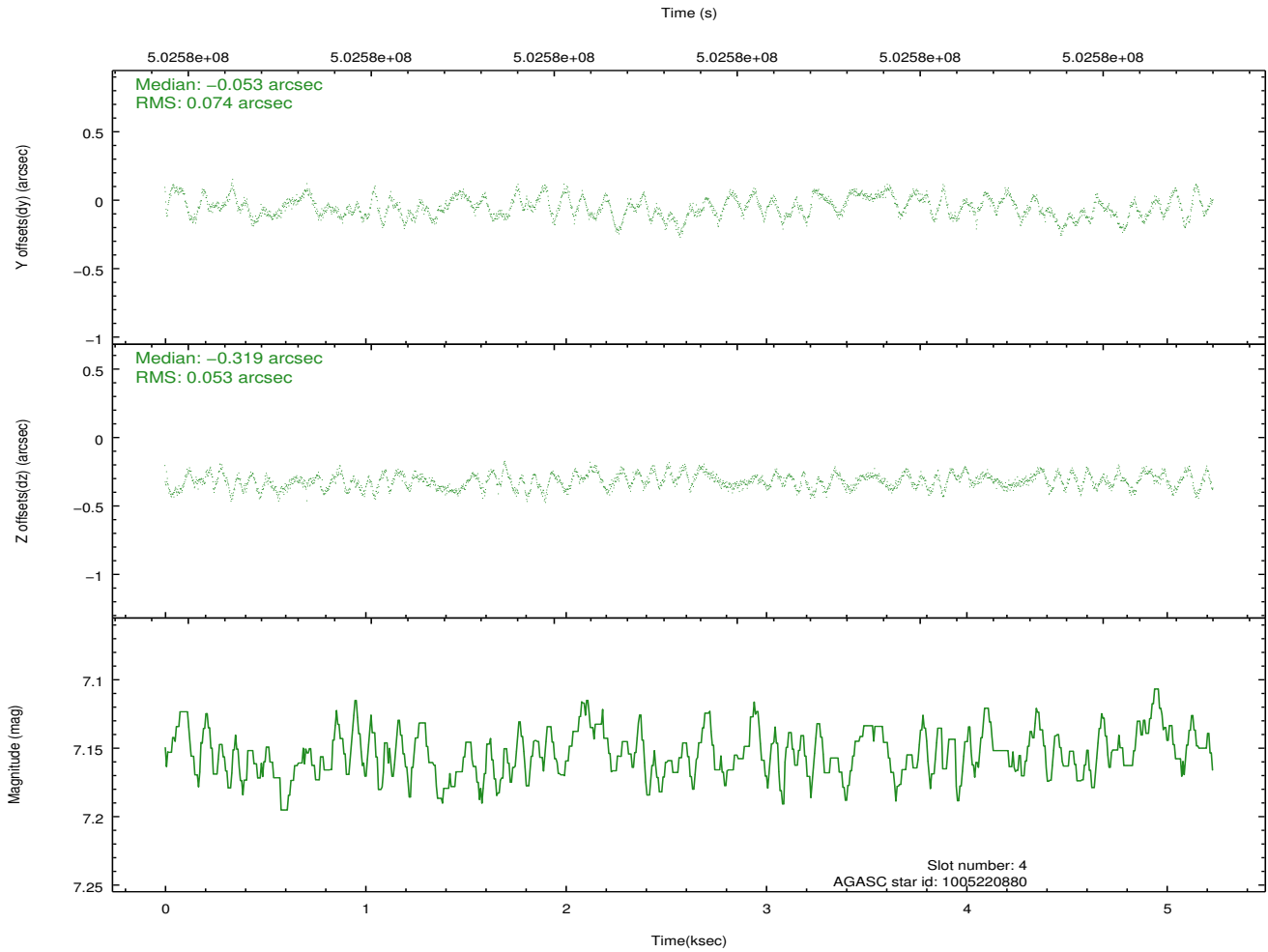
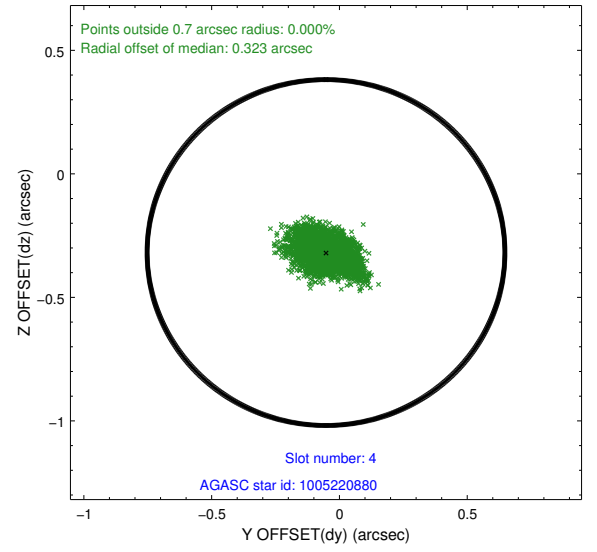
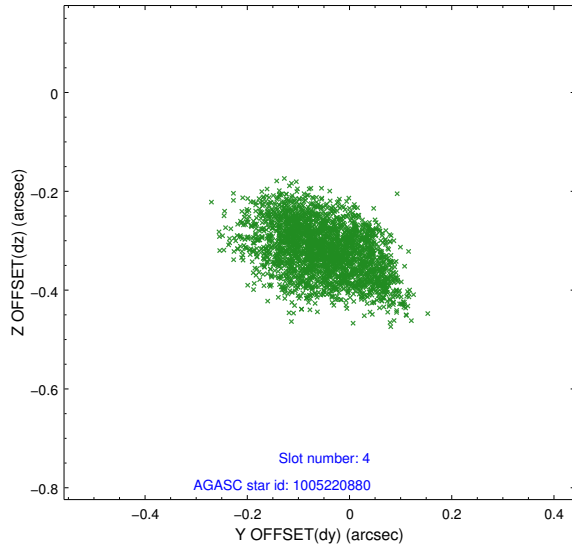
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	1276	0.048	-0.013	0.008	0.015	0.000000	0.000000	917.43	-842.70
1	FID		ACIS-I-2	7.03	1275	-0.017	-0.045	0.011	0.018	0.000000	0.000000	-776.09	-849.92
2	FID		ACIS-I-5	7.12	1276	-0.123	0.130	0.007	0.013	0.000000	0.000000	-1831.73	1054.08
3	GUIDE	used	1005201896	8.52	2553	0.059	-0.421	0.079	0.125	126.670468	-42.695868	-828.84	1977.95
4	GUIDE	used	1005220880	7.15	2553	-0.053	-0.319	0.098	0.154	127.216917	-42.587477	393.93	1112.73
5	GUIDE	used	1005337992	8.49	2551	-0.186	0.265	0.107	0.171	128.344661	-42.851803	1533.78	-1803.33
6	GUIDE	used	1005858928	8.83	2552	0.287	0.426	0.099	0.160	127.582499	-43.495757	-1526.07	-1703.27
7	GUIDE	used	1005323352	8.98	2550	-0.111	0.047	0.108	0.175	128.148703	-42.787542	1390.05	-1255.75

2.4 Star Slots

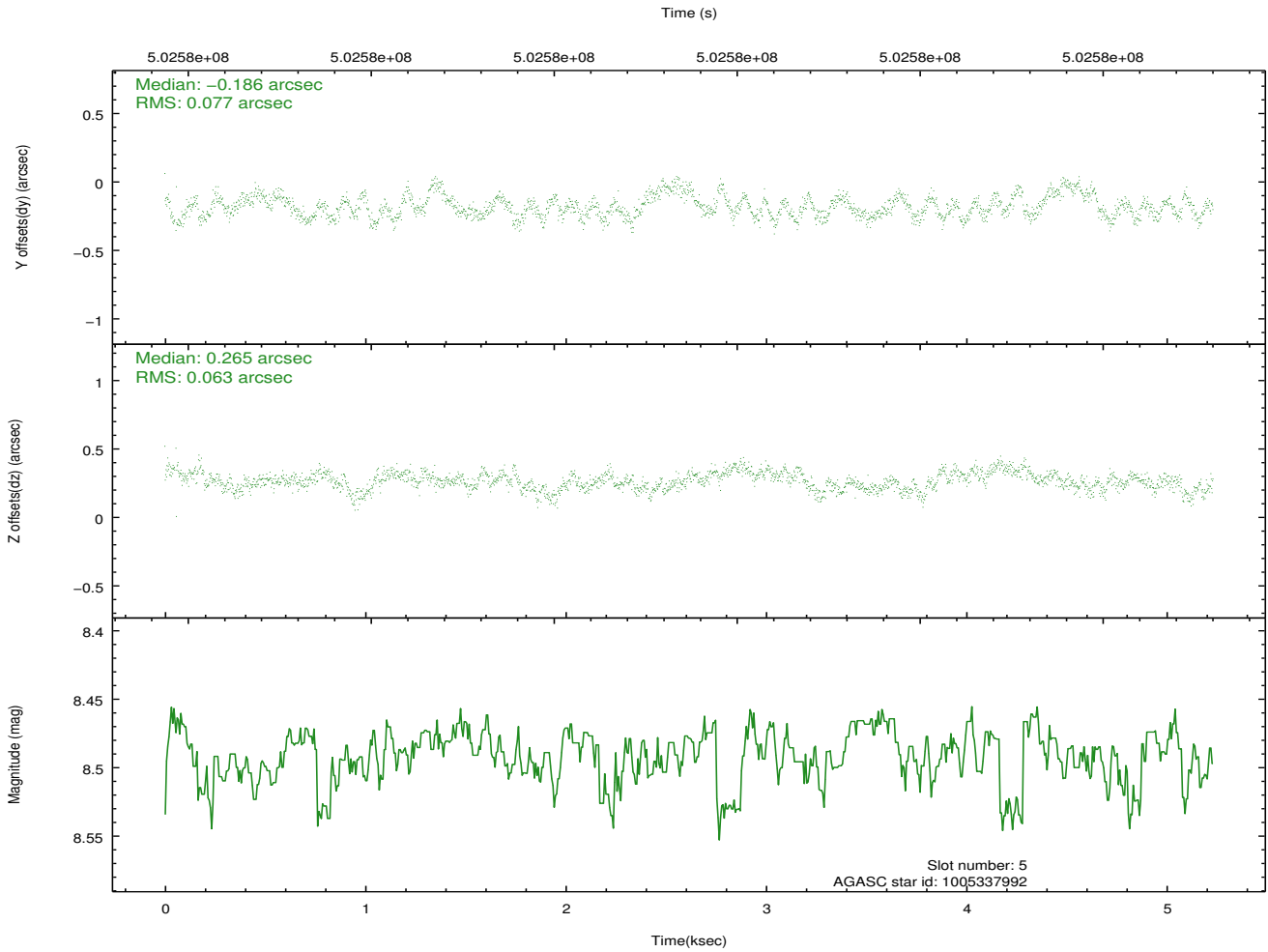
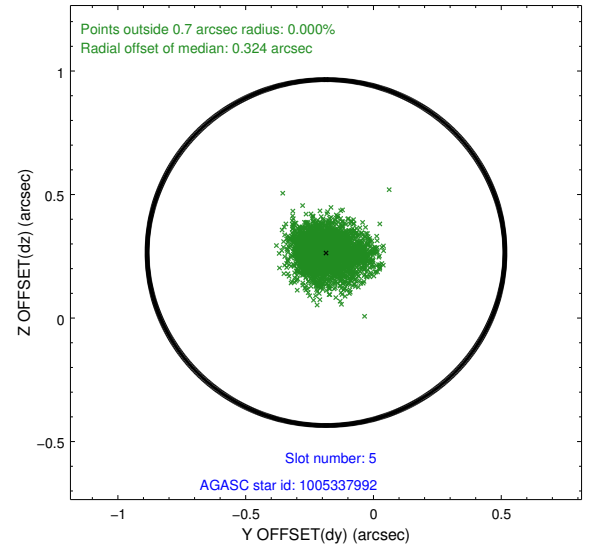
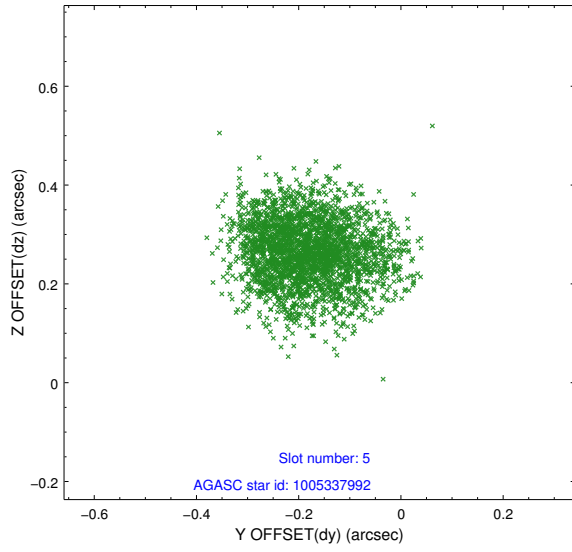
2.4.1 Slot 3



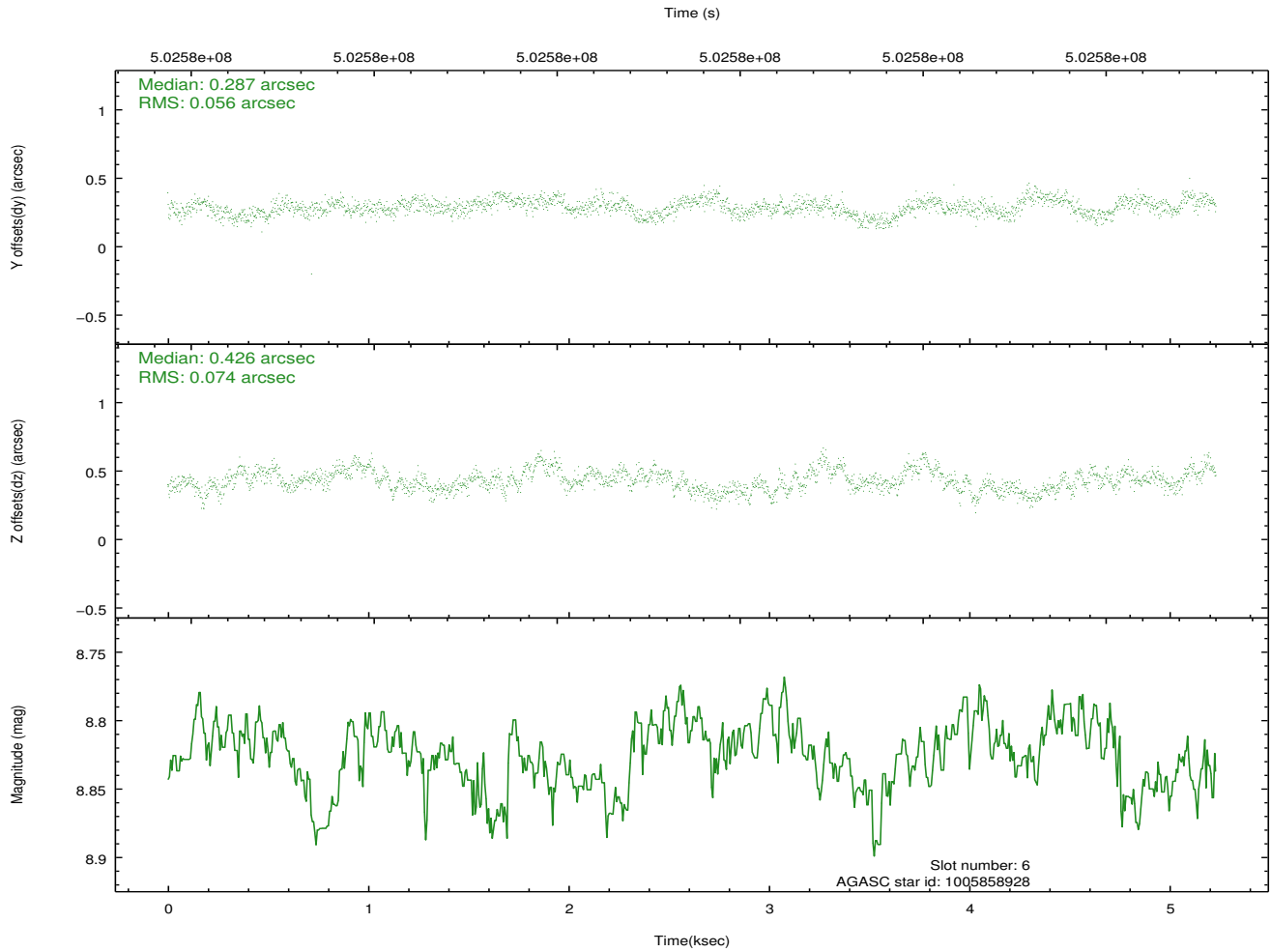
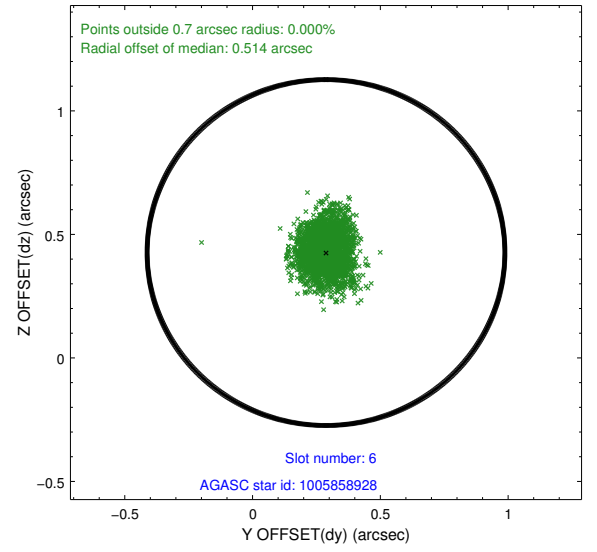
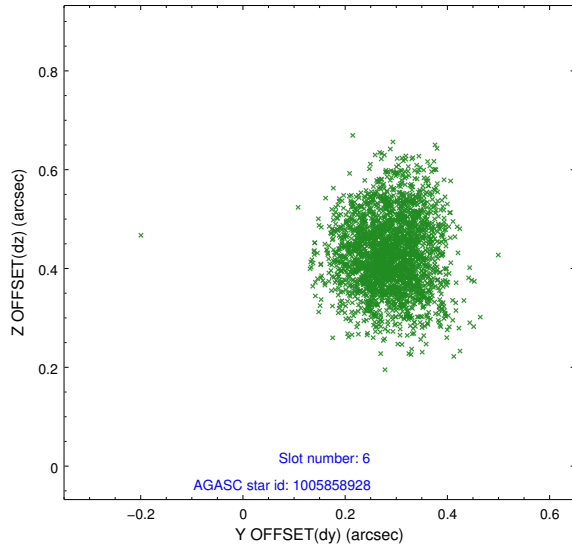
2.4.2 Slot 4



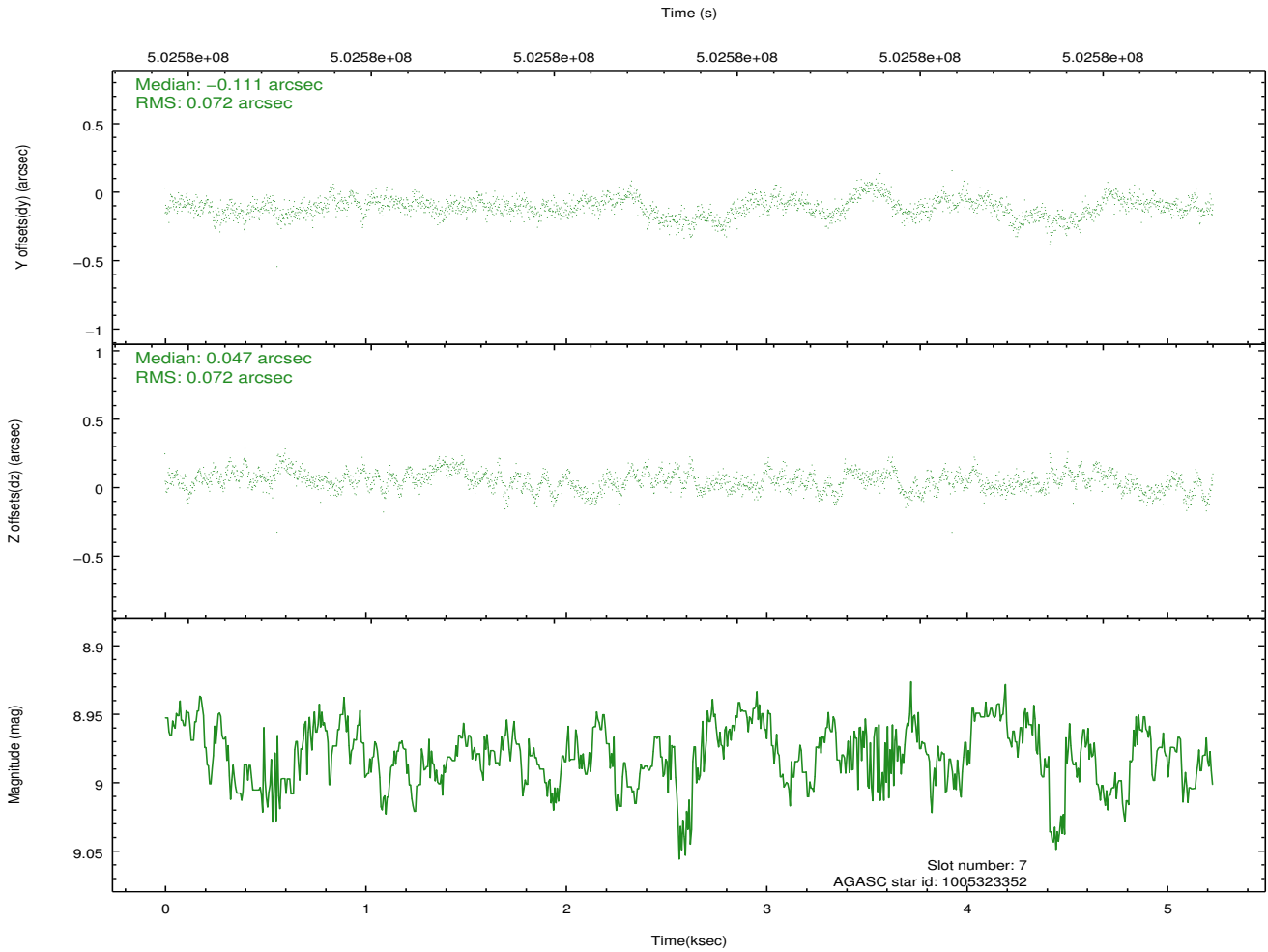
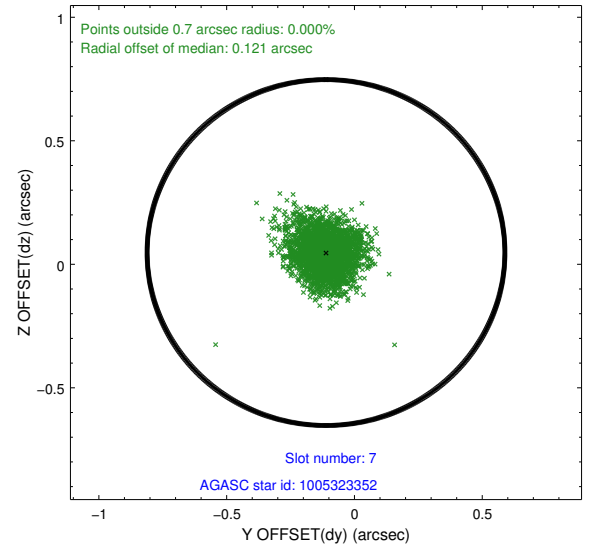
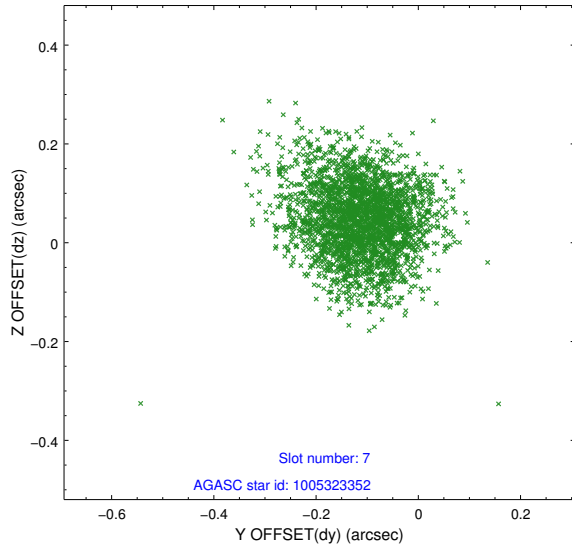
2.4.3 Slot 5



2.4.4 Slot 6

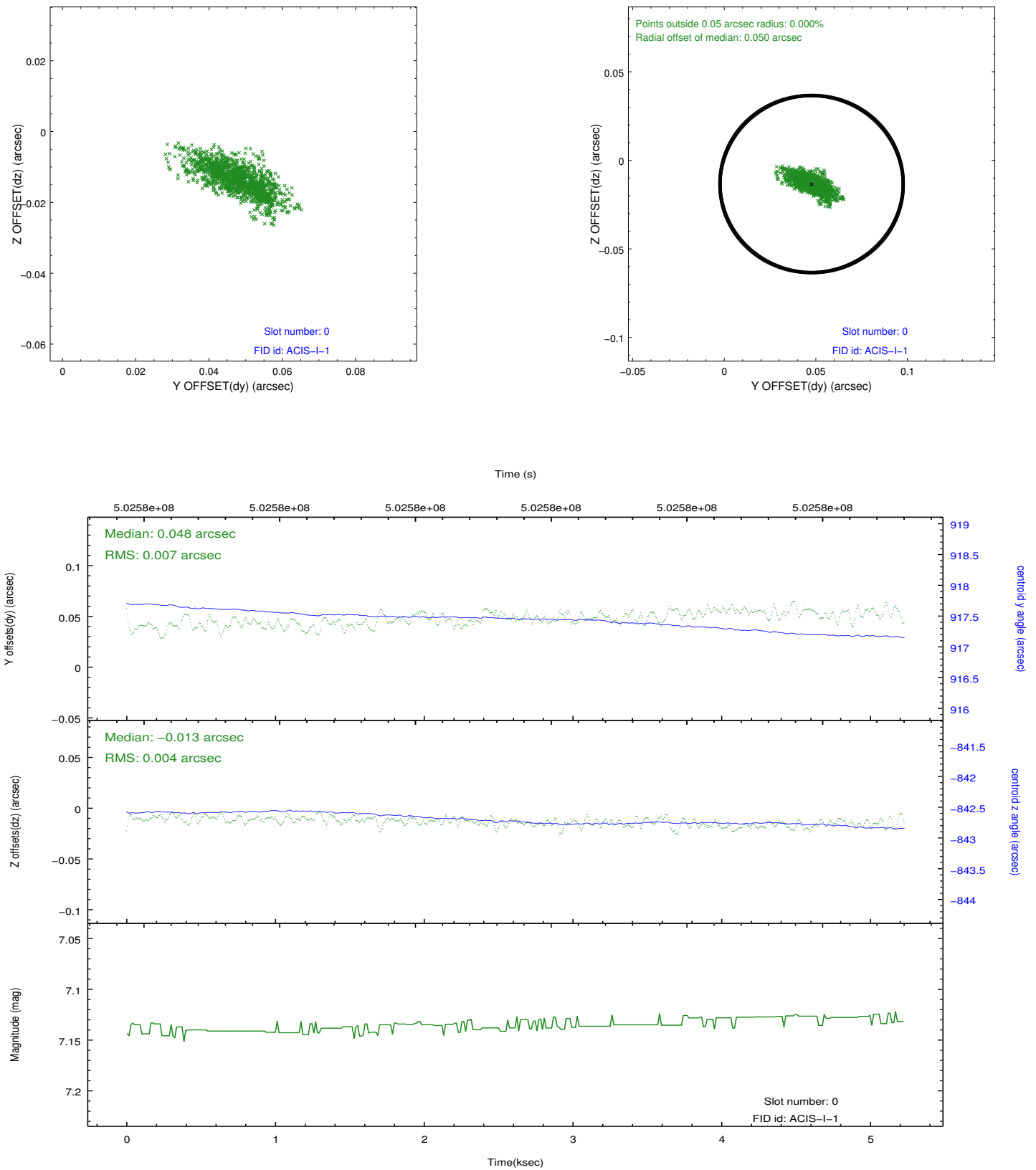


2.4.5 Slot 7

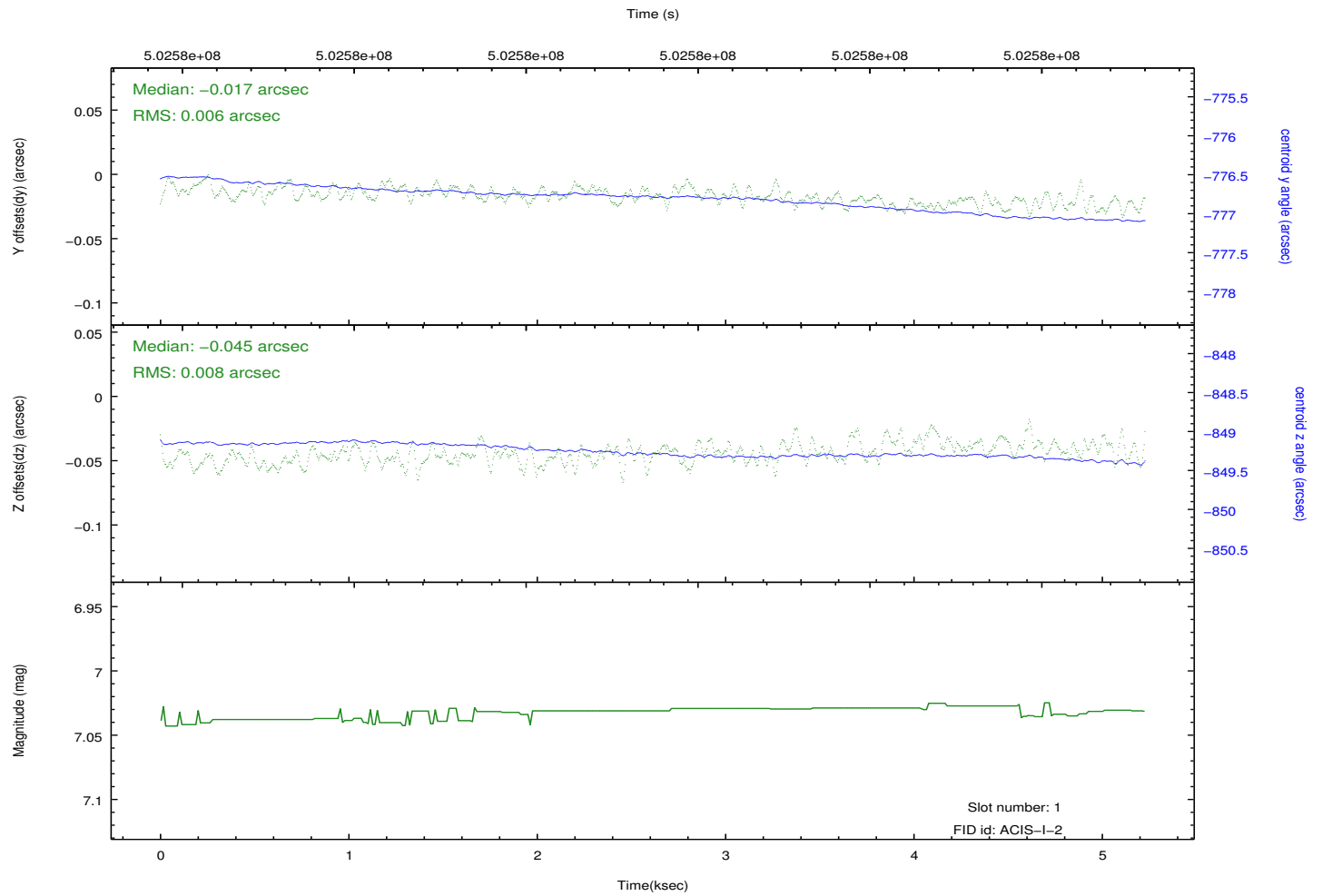
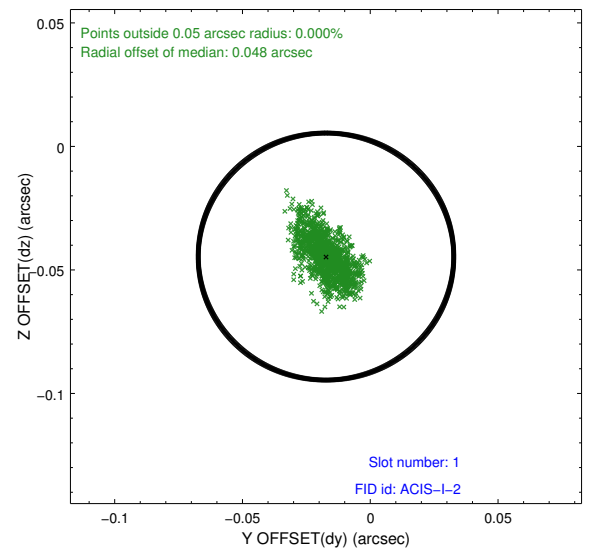
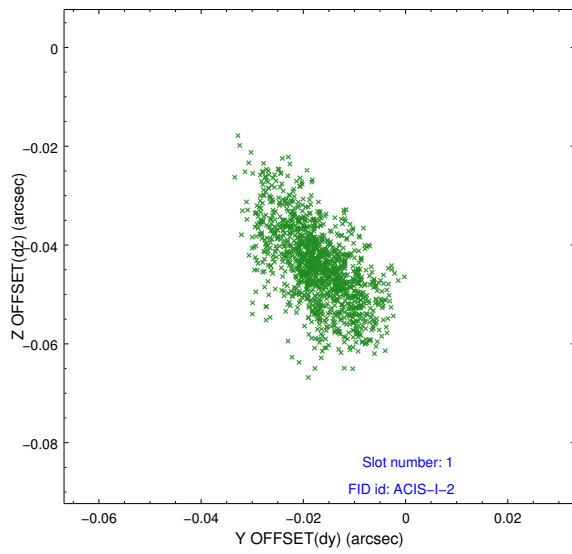


2.5 FID Slots

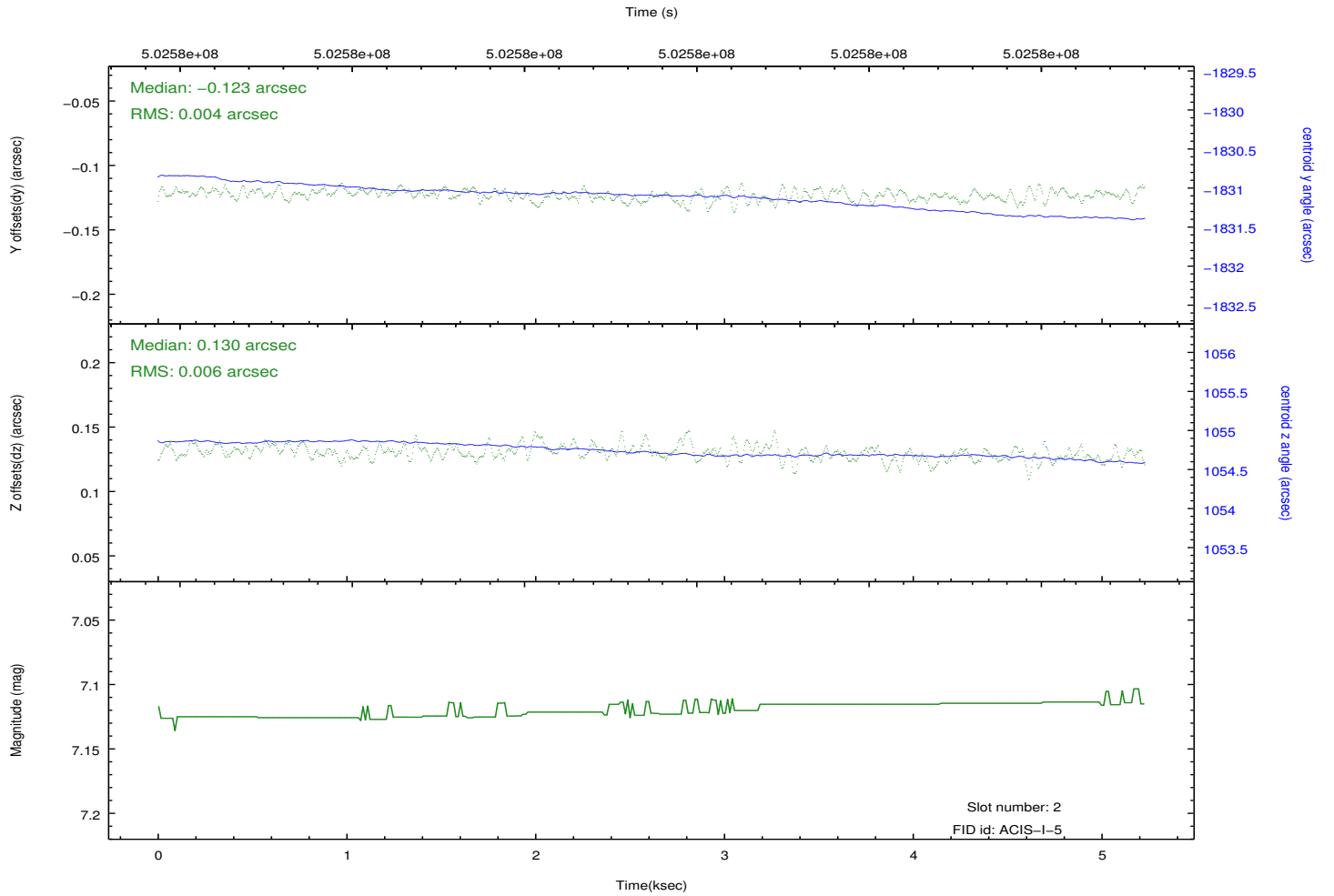
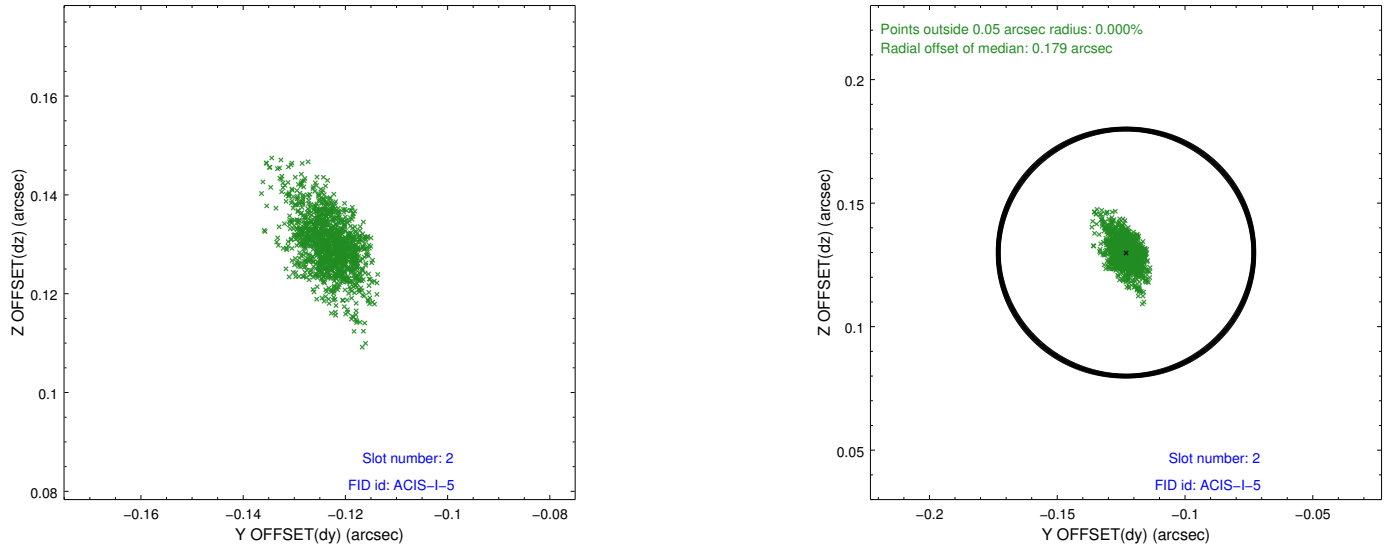
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.971590434432

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.