

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15144 - L2 Version 2
Chandra X-Ray Center

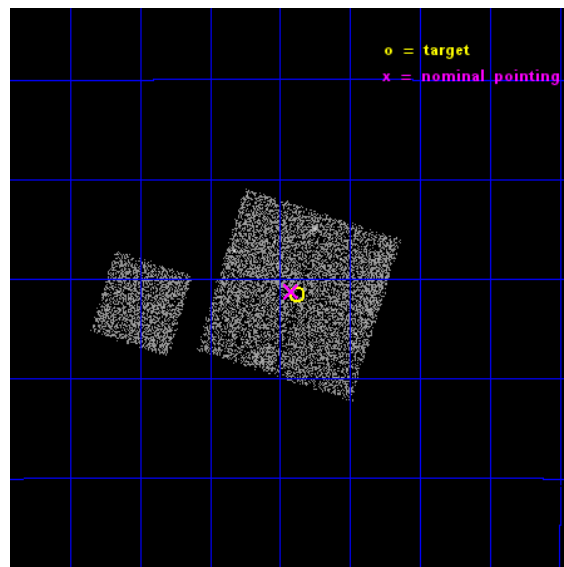
L2 Processing Date : Nov 30 2014

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1 Front

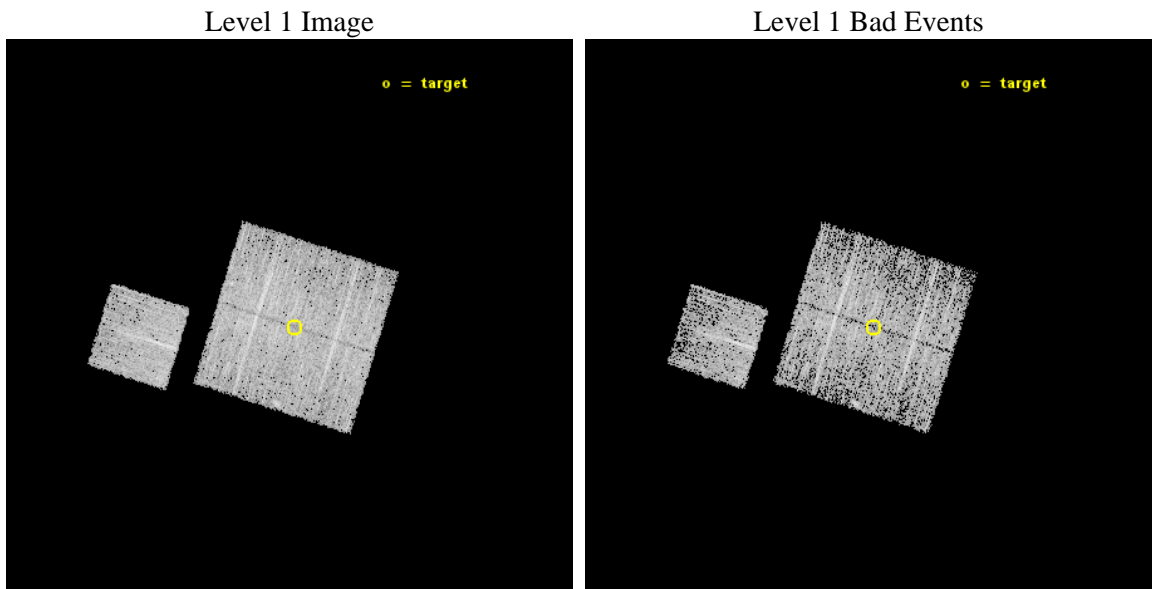
seq_num	801273	Sequence number
obs_id	15144	Observation id
title	TO THE OUTER LIMITS OF CLUSTERS WITH CHANDRA AND SUZAKU	Proposal t
observer	Dr. Eric Miller	Principal investigator
object	A2597	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.220167	Observer's specified target RA [deg]
dec_targ	-12.36005	Observer's specified target Dec [deg]
ra_nom	351.22975486783	Nominal RA [deg]
dec_nom	-12.354318531195	Nominal Dec [deg]
roll_nom	287.53349254887	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5080.9000390768	Sum of GTIs [s]
livetime	5014.5143395621	Livetime [s]
ontime0	5080.9000390768	Sum of GTIs [s]
ontime1	5080.9000390768	Sum of GTIs [s]
ontime2	5080.9000390768	Sum of GTIs [s]
ontime3	5080.9000390768	Sum of GTIs [s]
ontime6	5077.7590687275	Sum of GTIs [s]
l2events	14576	Number of level 2 events



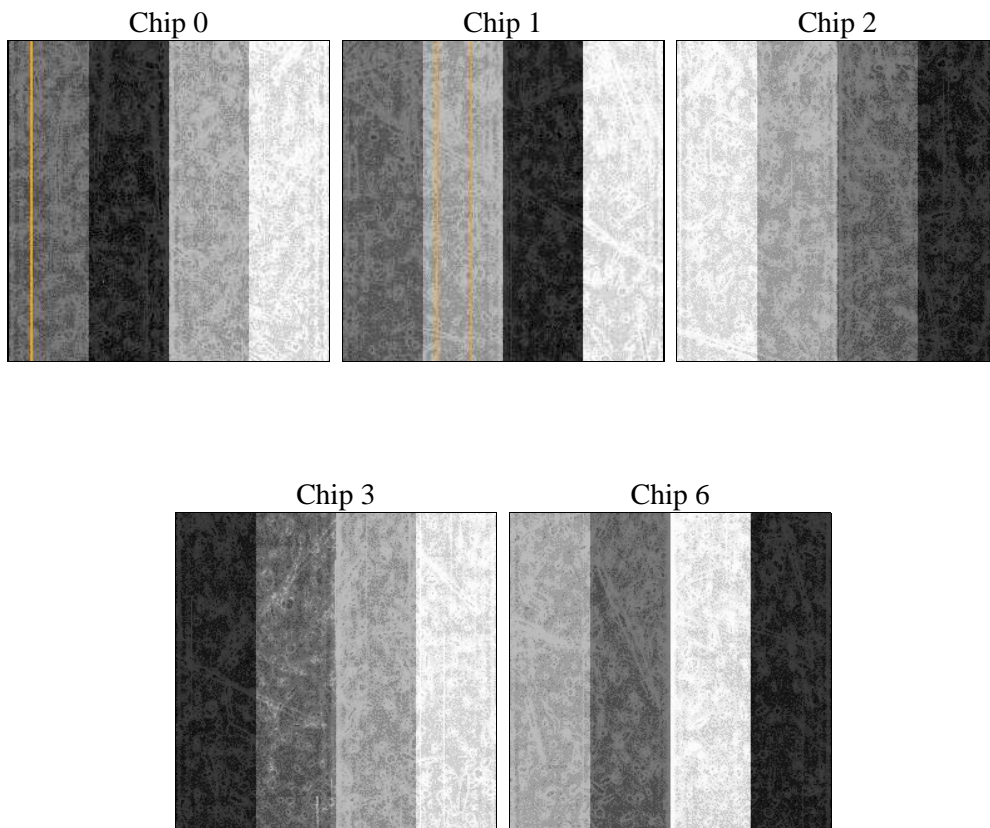
2 OBI

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	Processing system revision	ontime	5080.9000390768	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5080.9000390768	Sum of GTIs [s]
date	2014-12-01T07:00:32	Date and time of file creation	ontime1	5080.9000390768	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5080.9000390768	Sum of GTIs [s]
			ontime3	5080.9000390768	Sum of GTIs [s]
			ontime6	5077.7590687275	Sum of GTIs [s]
			l1events	133295	Number of level 1 events

2.1.4 Events

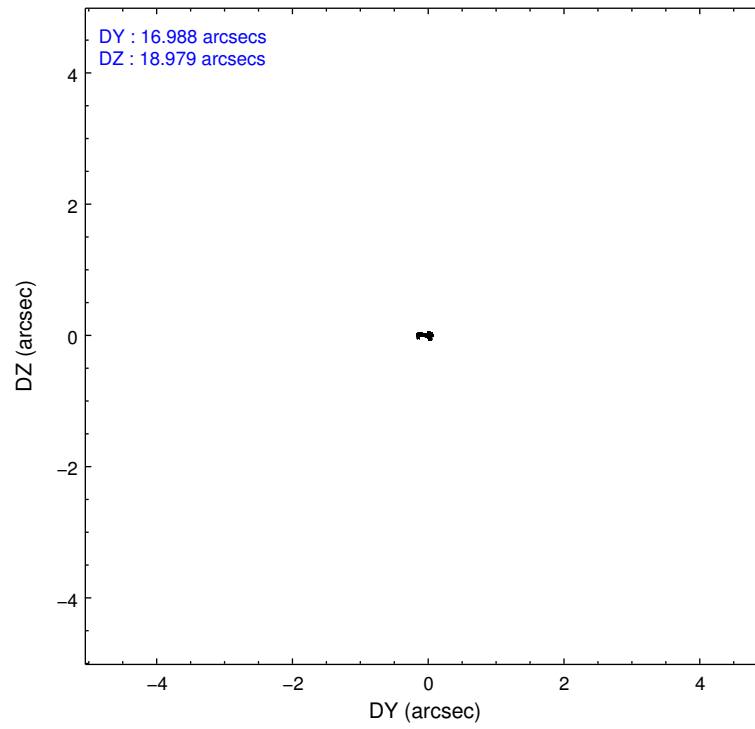
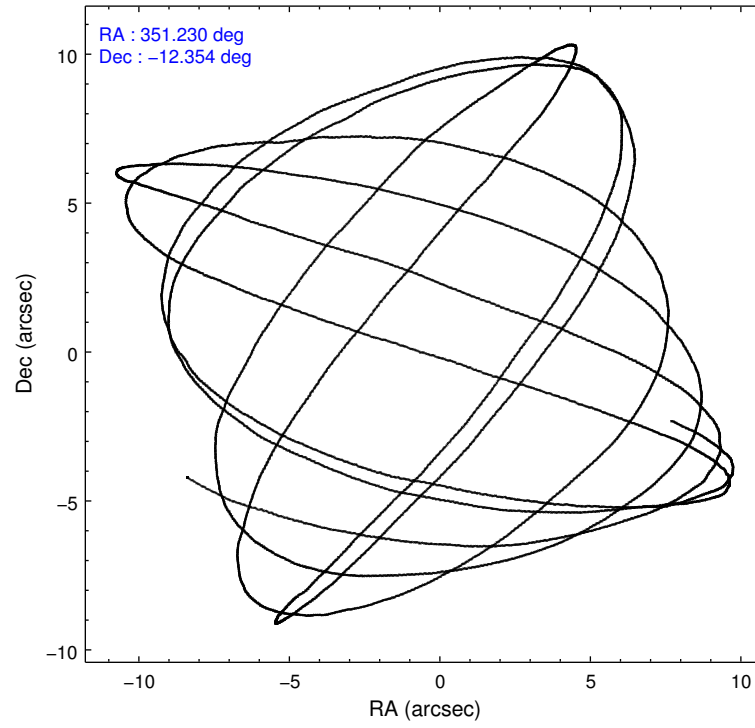
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	25856	25432	27275	27947	26785
rejected events	22482	21789	23884	24423	23494
rejected %	86%	85%	87%	87%	87%

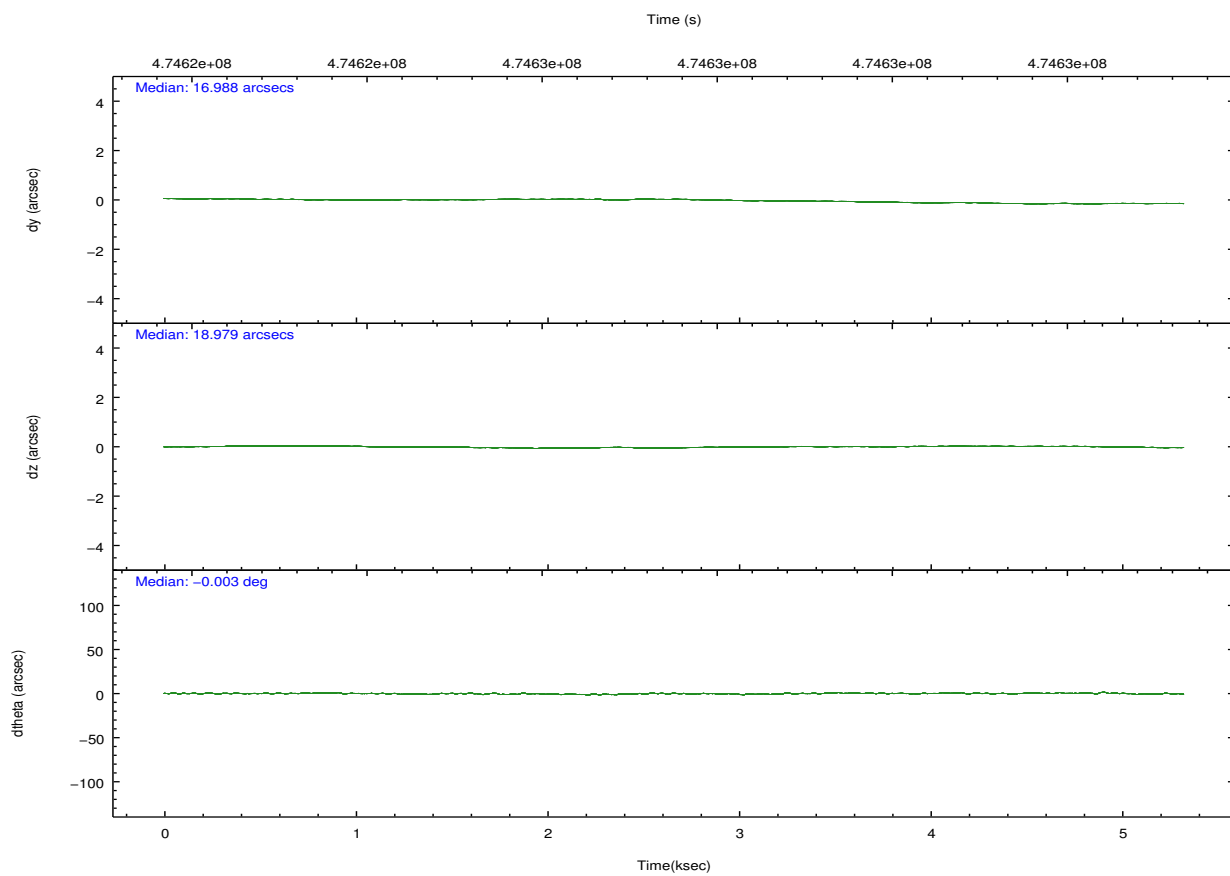
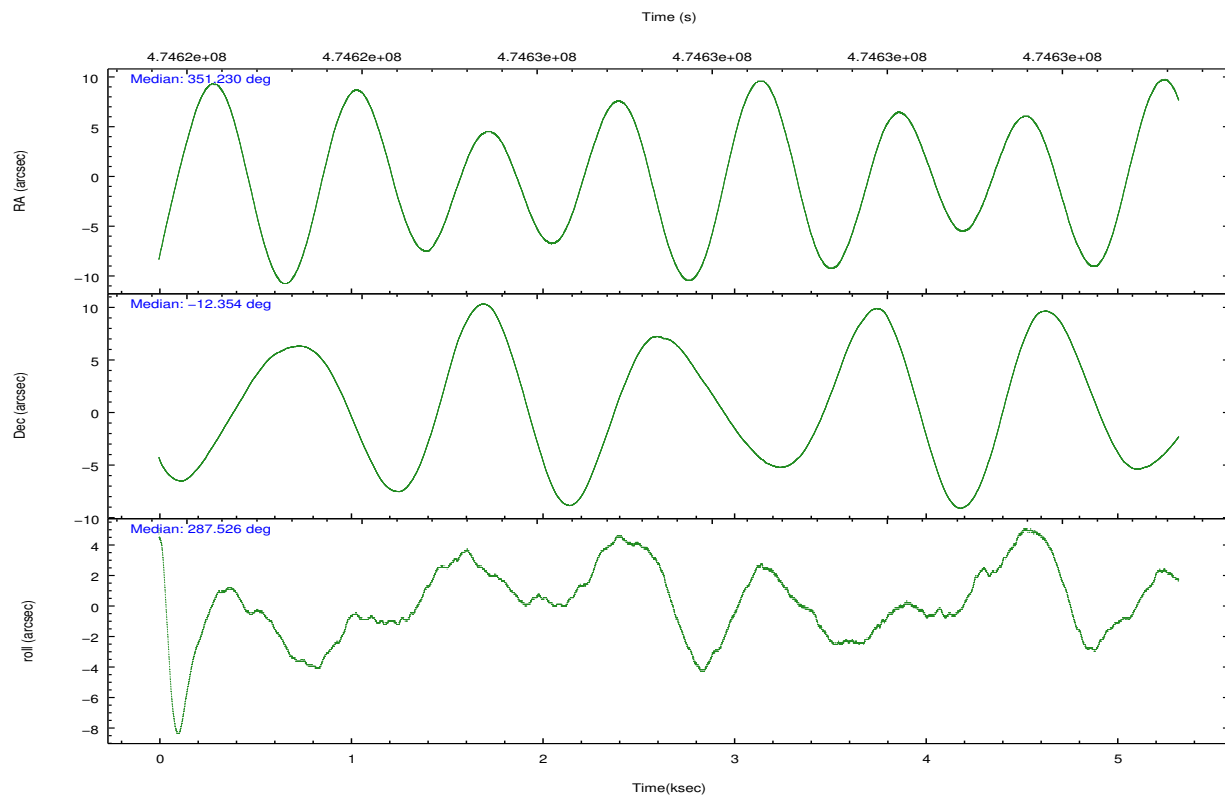
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1186	1265	1271	1372	1123
	4%	4%	4%	4%	4%
grade 1 events	12	15	15	19	12
	0%	0%	0%	0%	0%
grade 2 events	811	867	808	816	716
	3%	3%	2%	2%	2%
grade 3 events	333	373	315	346	357
	1%	1%	1%	1%	1%
grade 4 events	335	360	336	339	330
	1%	1%	1%	1%	1%
grade 5 events	1314	1368	1191	1447	1442
	5%	5%	4%	5%	5%
grade 6 events	710	779	661	654	770
	2%	3%	2%	2%	2%
grade 7 events	21155	20405	22678	22954	22035
	81%	80%	83%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	351.208832	351.2297548678271	CCD I2 on	Y	Y
[deg] Pointing Dec	-12.335750	-12.35431853119522	CCD I3 on	Y	Y
[deg] Pointing Roll	287.320317	287.5334925488702	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	474624414.184000	474623405.93303	CCD S5 on	N	N
Observation start date	2013-01-15T08:05:47	2013-01-15T07:50:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	474629414.184000	474630250.3709	On-chip summing requested	N	N
Observation end date	2013-01-15T09:29:07	2013-01-15T09:44:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



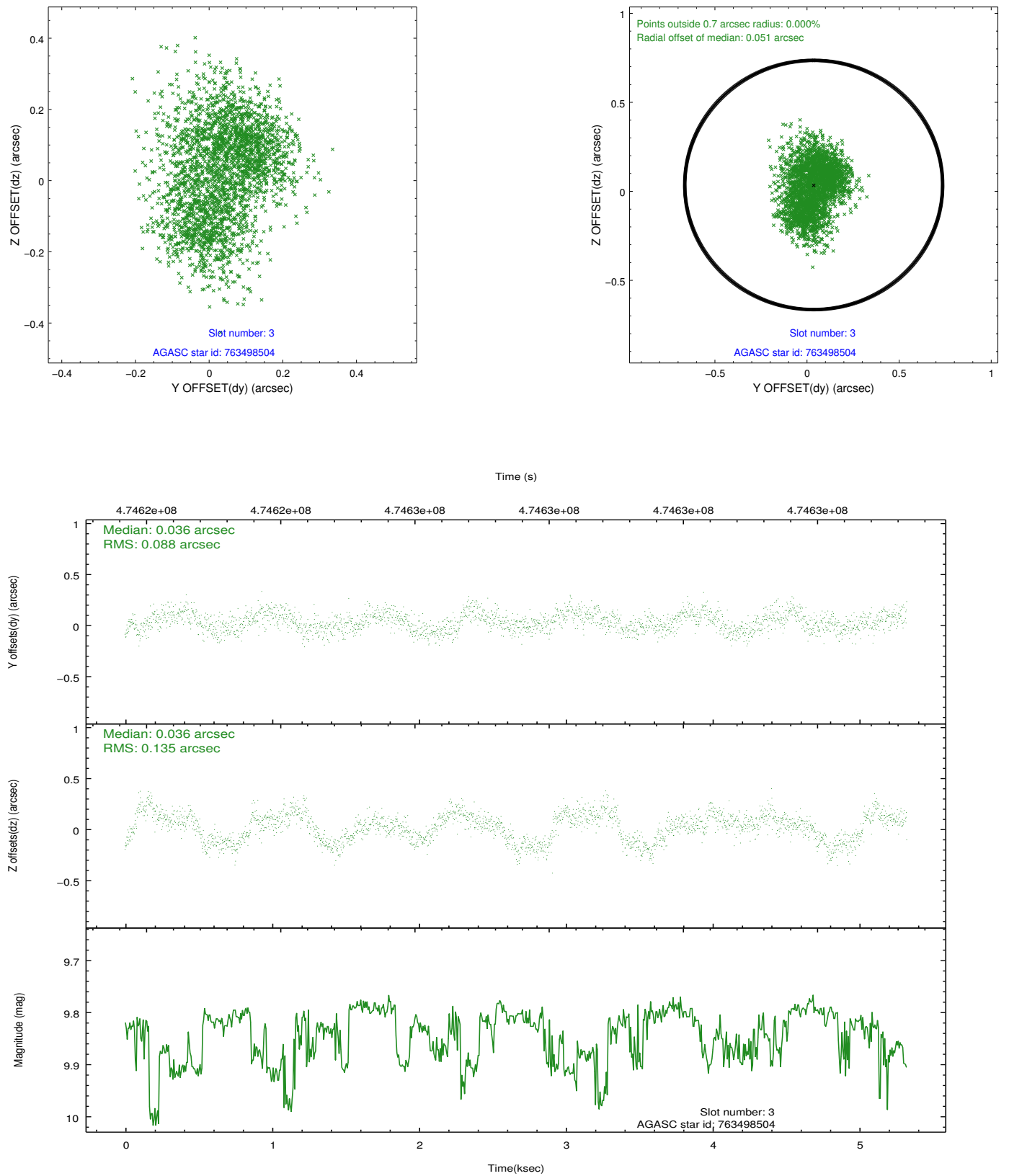


Slot Statistics

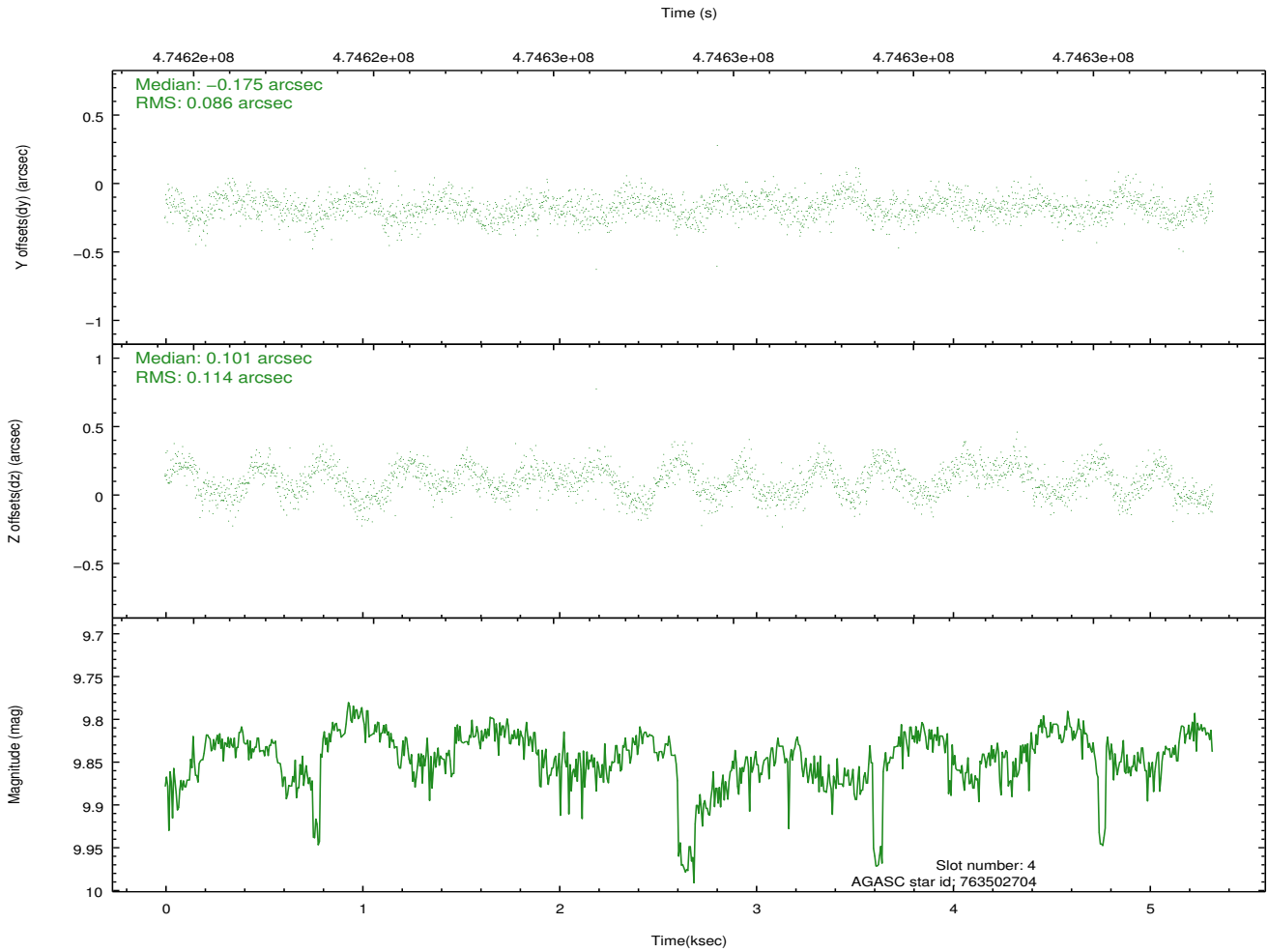
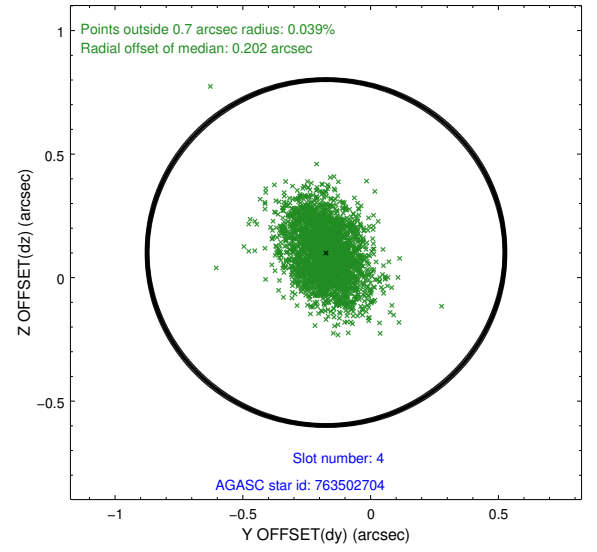
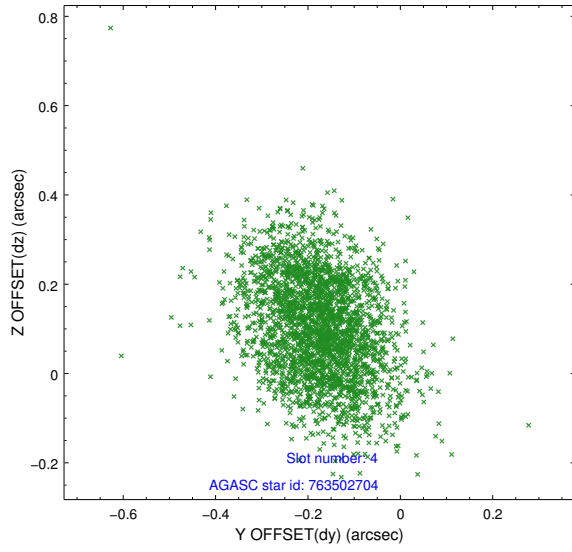
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	1299	0.006	0.064	0.006	0.011	0.000000	0.000000	922.47	-842.60
1	FID		ACIS-I-5	7.05	1299	-0.188	0.030	0.006	0.011	0.000000	0.000000	-1825.24	1054.24
2	FID		ACIS-I-6	7.06	1299	0.091	-0.024	0.006	0.010	0.000000	0.000000	386.82	1700.01
3	GUIDE	used	763498504	9.83	2580	0.036	0.036	0.175	0.272	351.252498	-11.852907	-1613.44	664.58
4	GUIDE	used	763502704	9.84	2584	-0.175	0.101	0.149	0.247	351.449244	-11.609906	-2242.74	1588.04
5	GUIDE	used	763503920	10.45	2567	0.055	-0.064	0.262	0.465	351.705505	-11.725391	-1575.89	2325.19
6	GUIDE	used	763888952	9.01	2597	0.044	0.003	0.094	0.153	351.077405	-12.782990	1399.23	-918.09
7	GUIDE	used	763888960	9.31	2595	0.040	-0.092	0.130	0.213	350.633627	-12.795557	982.06	-2420.50

2.4 Star Slots

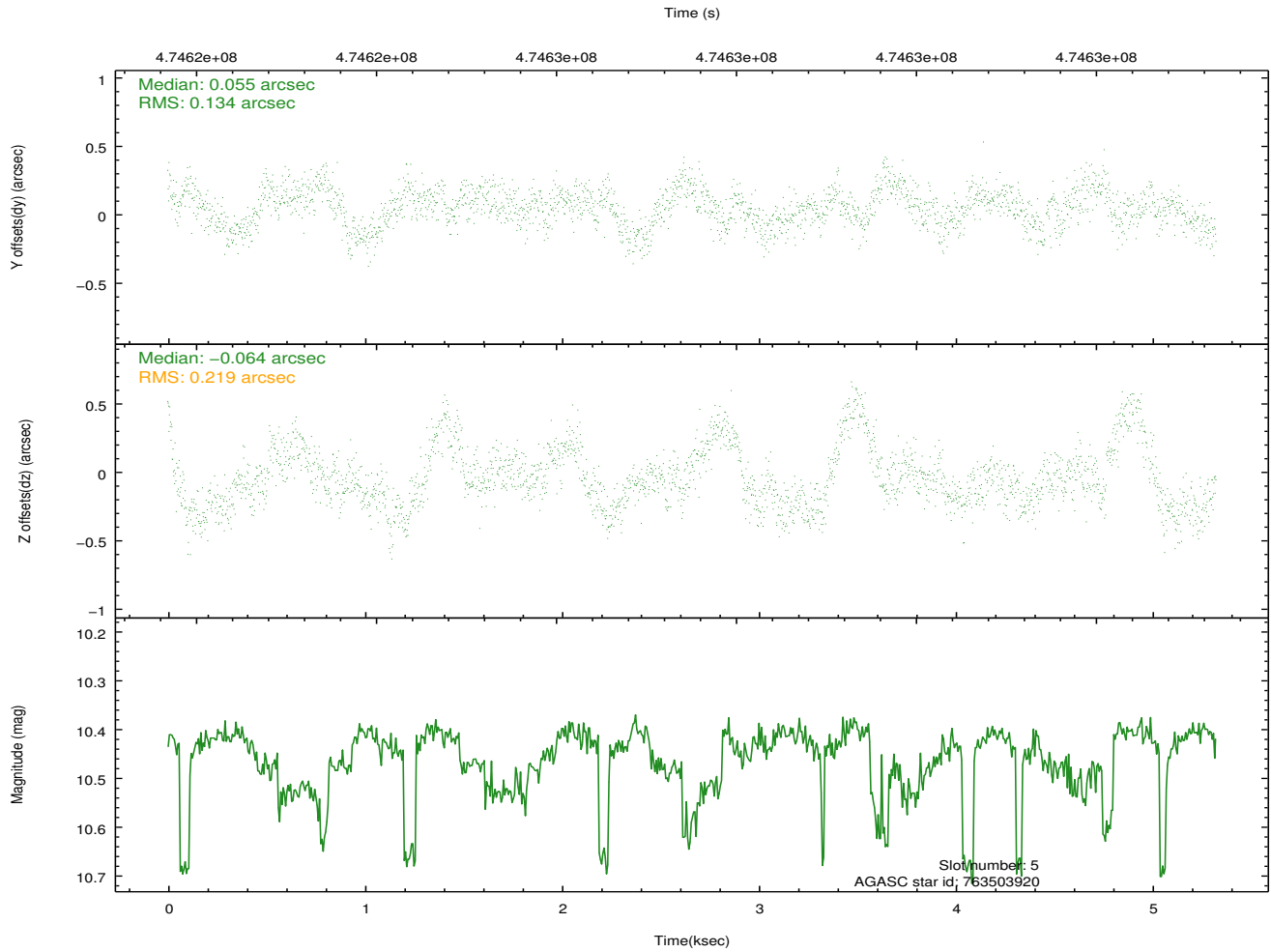
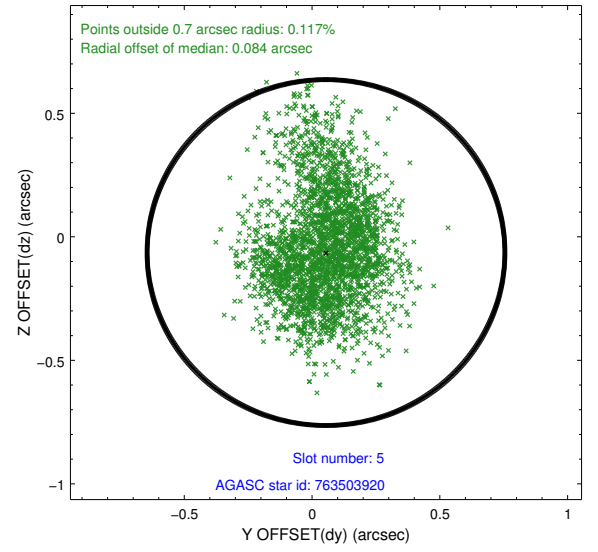
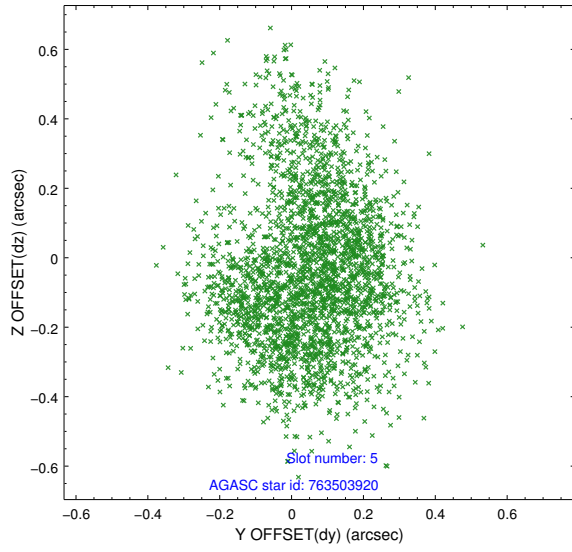
2.4.1 Slot 3



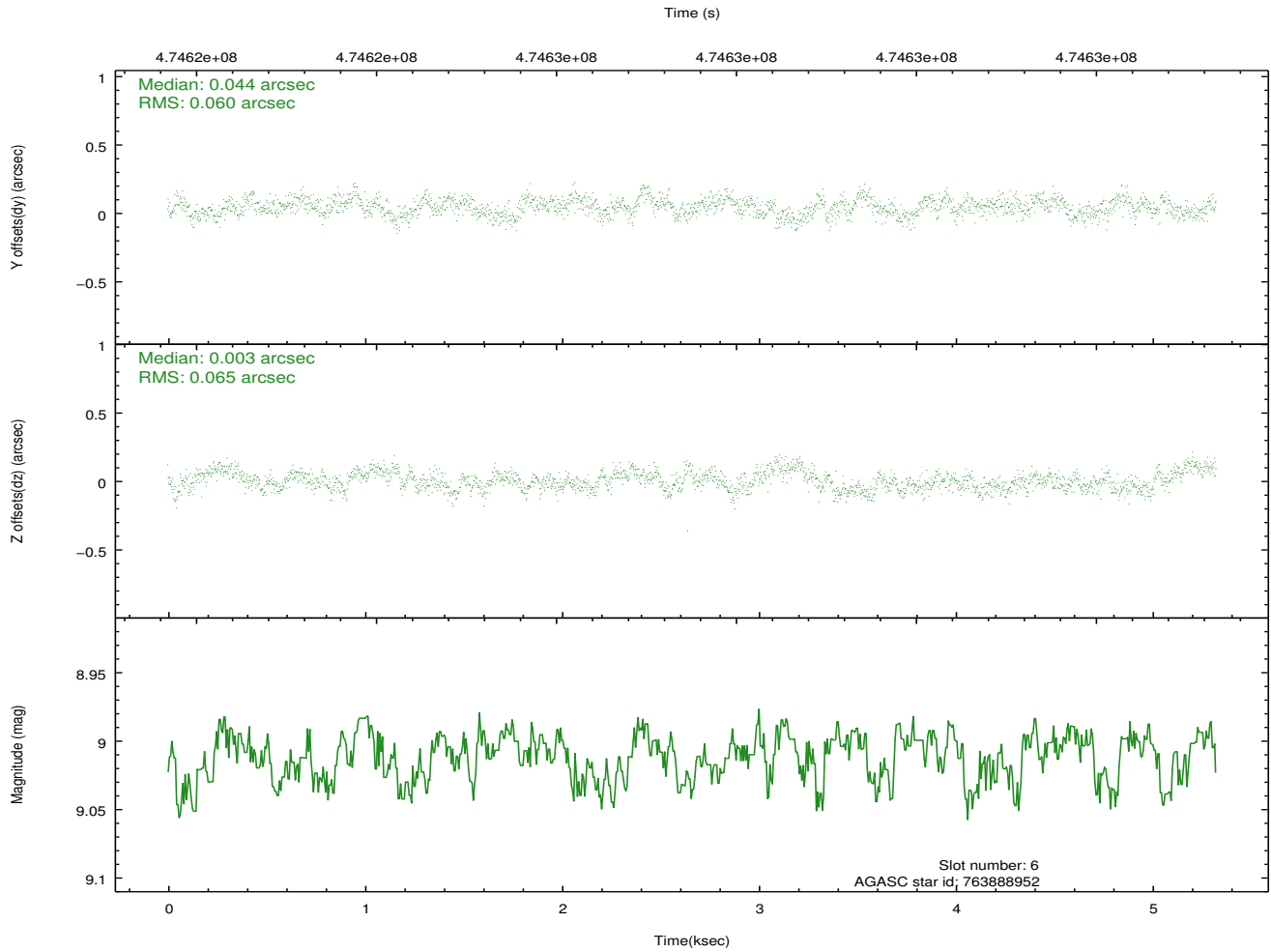
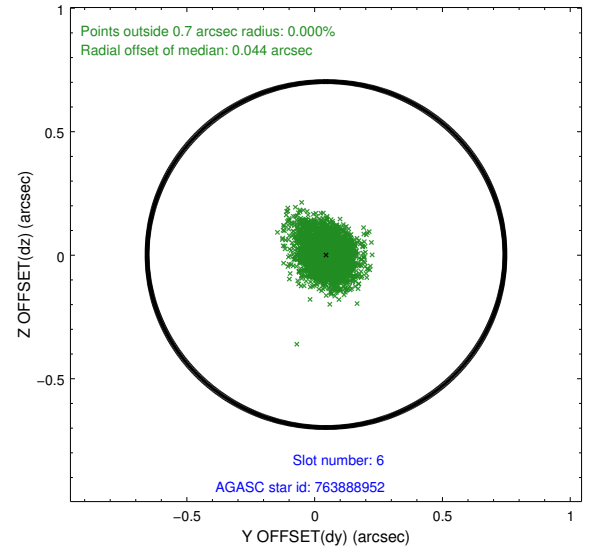
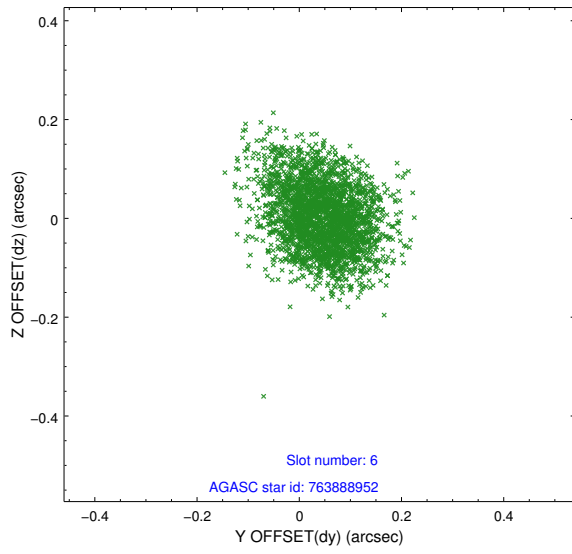
2.4.2 Slot 4



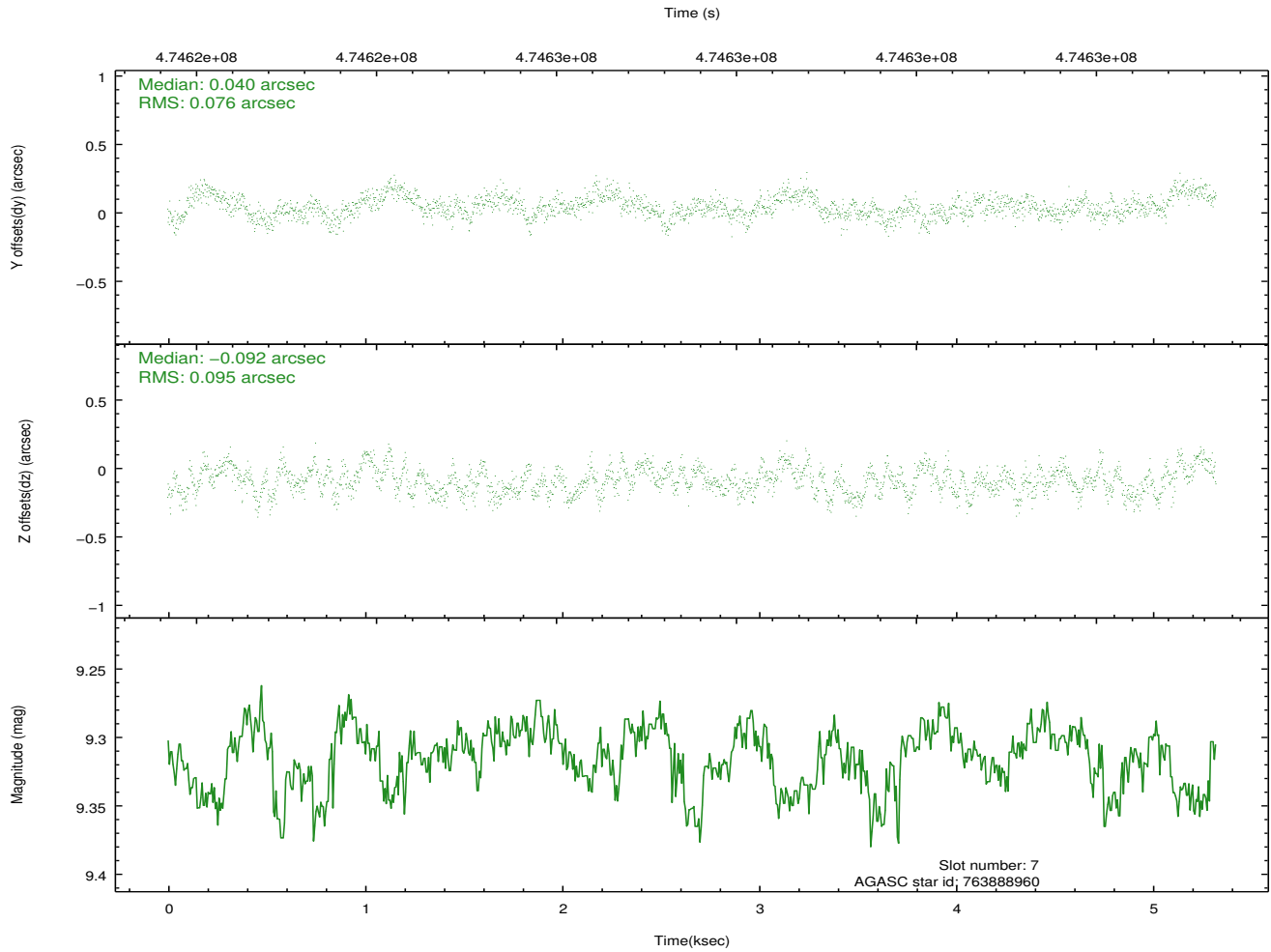
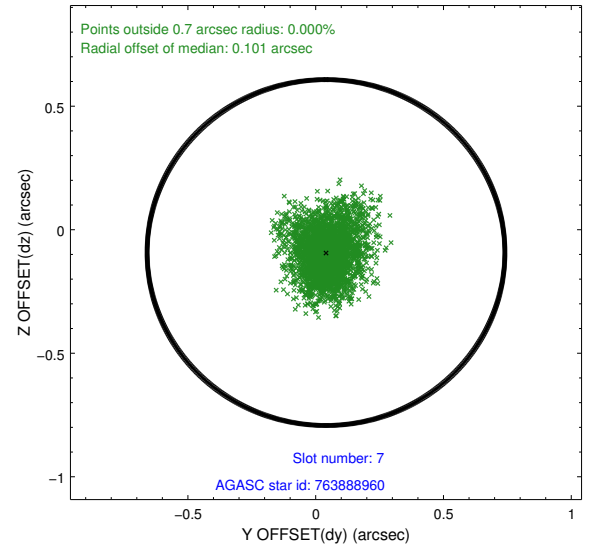
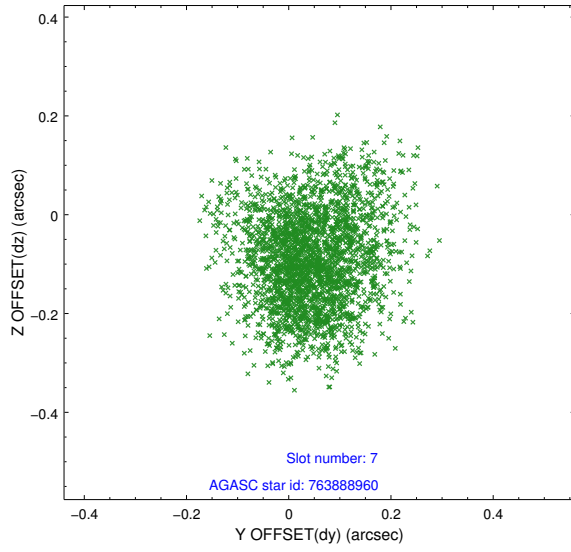
2.4.3 Slot 5



2.4.4 Slot 6

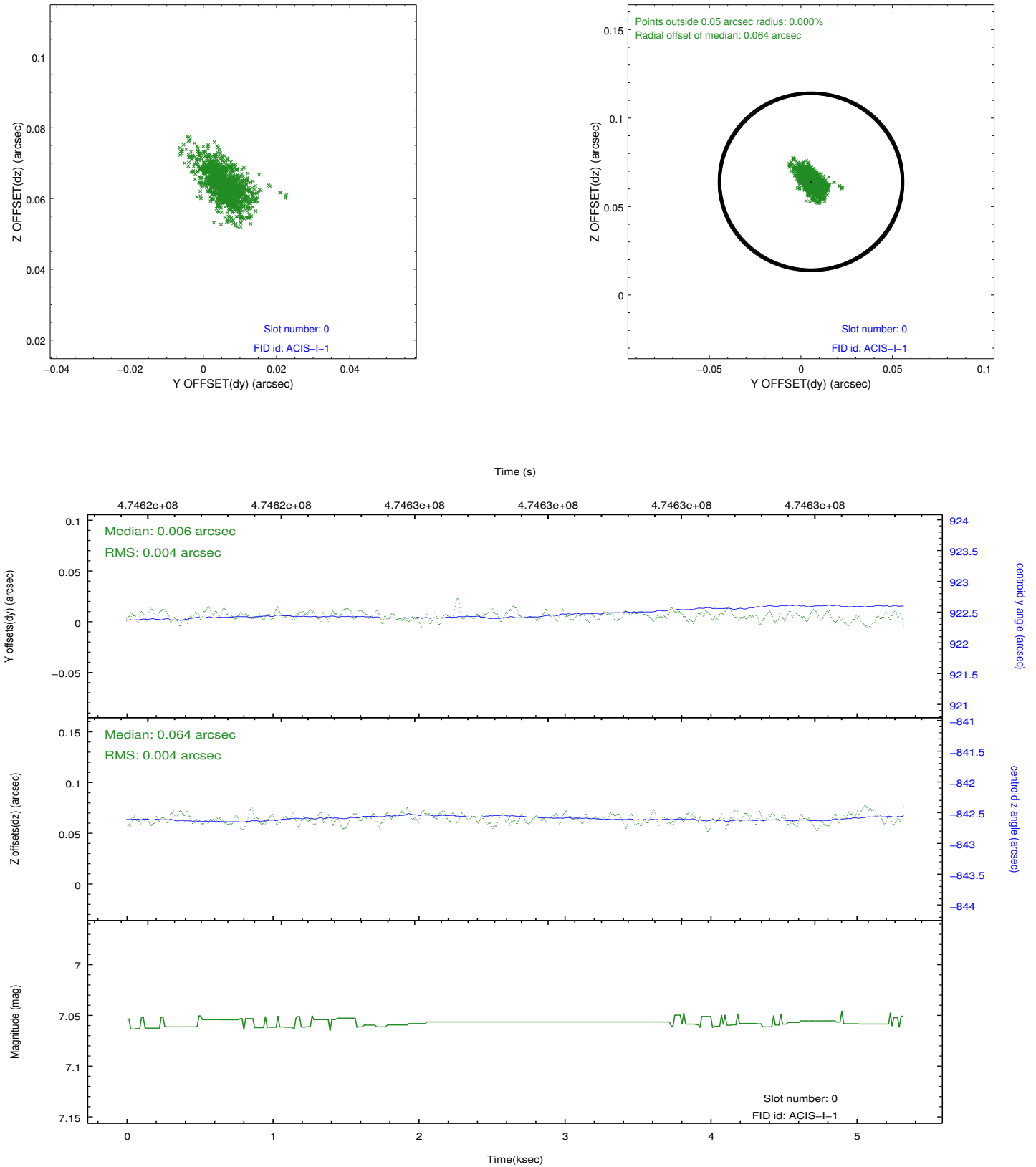


2.4.5 Slot 7

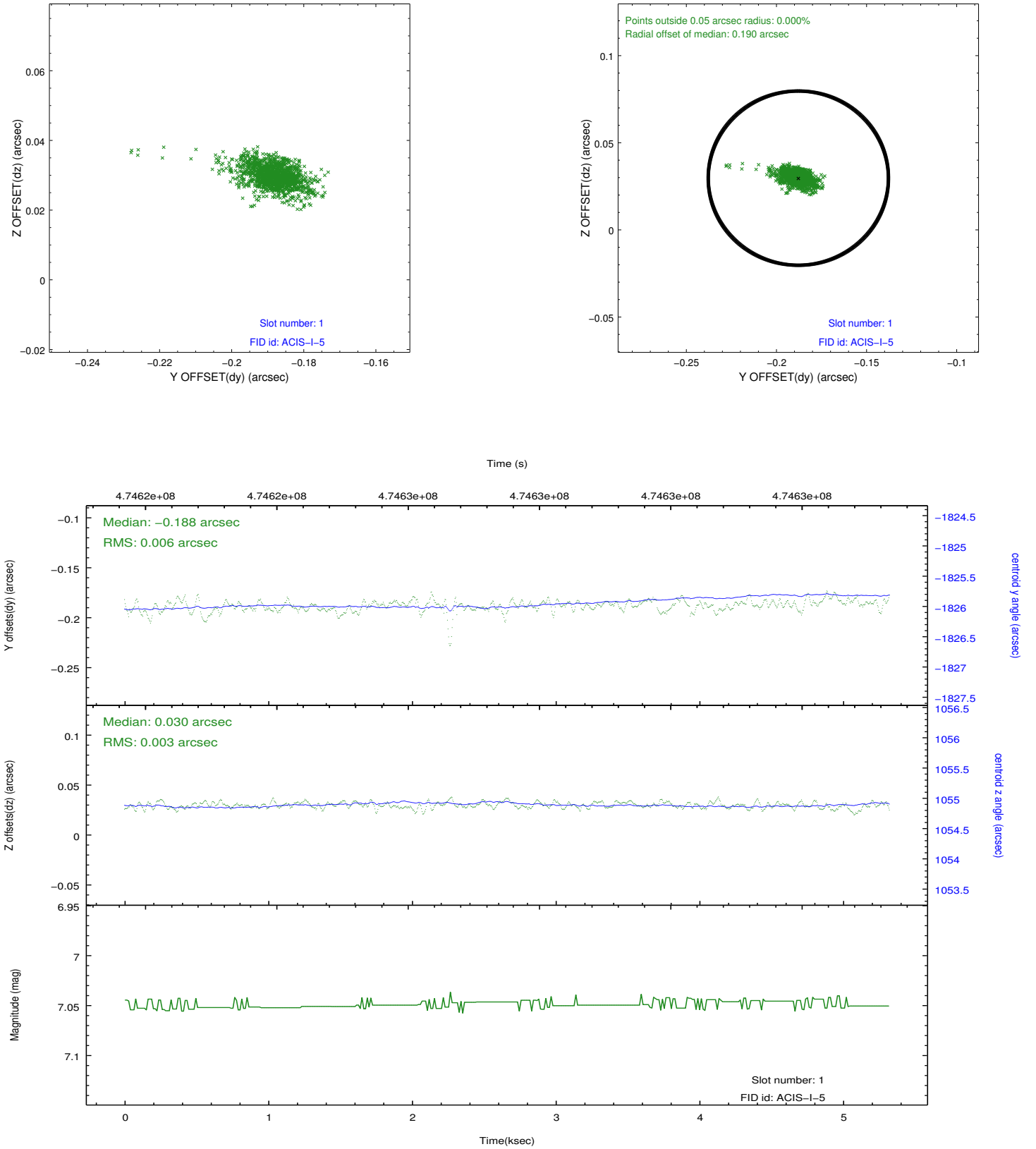


2.5 FID Slots

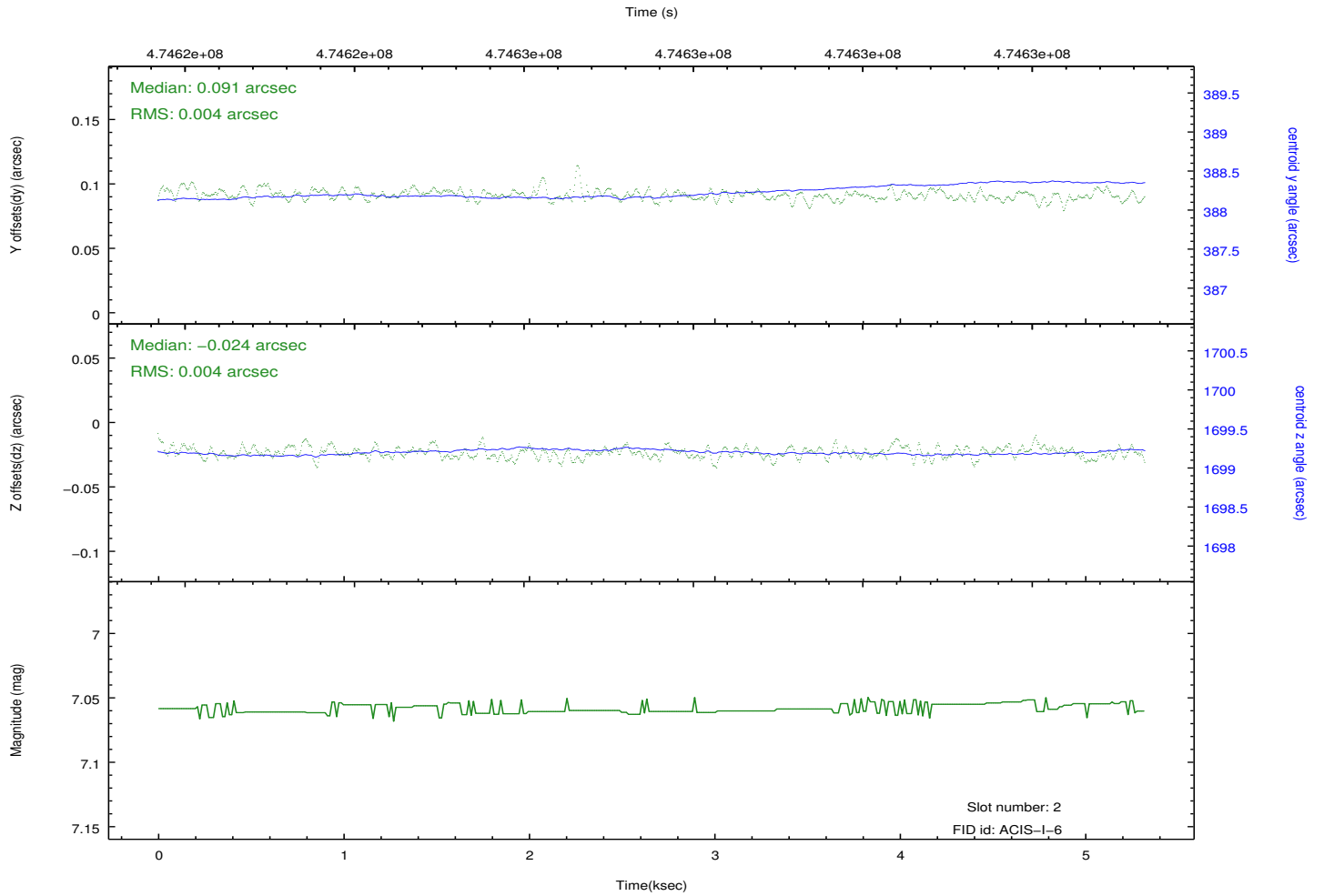
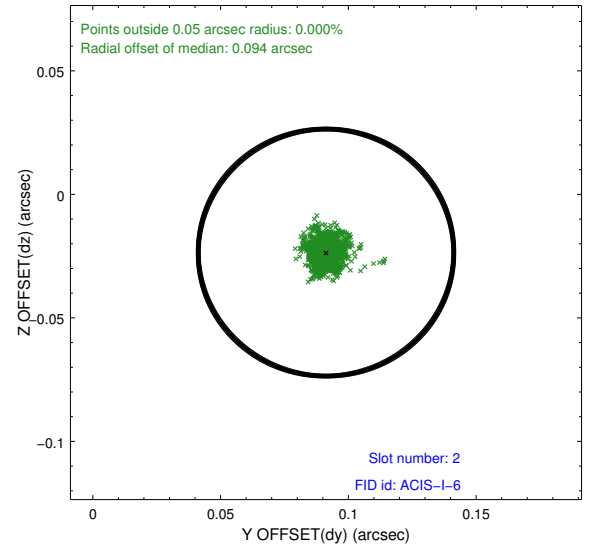
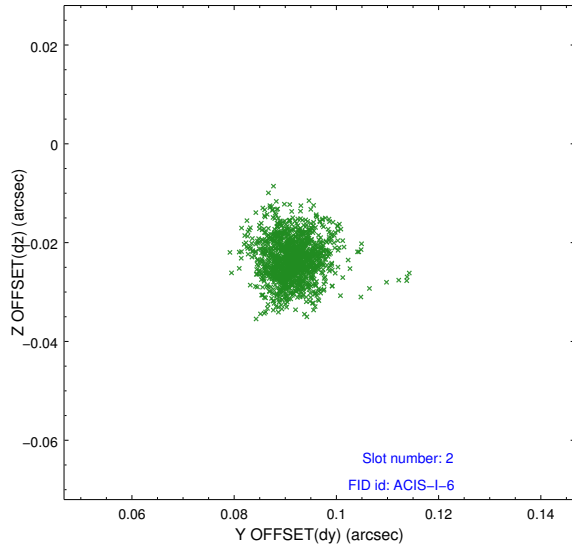
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0809000390768

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.