

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21584 - L2 Version 2
Chandra X-Ray Center

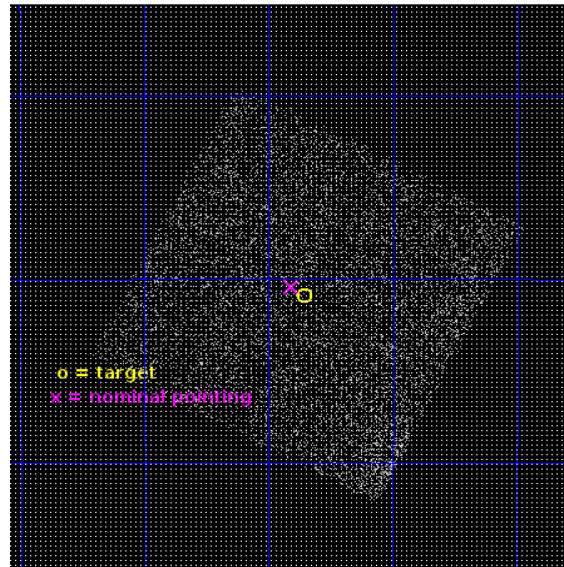
L2 Processing Date : Jul 8 2019

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1 Front

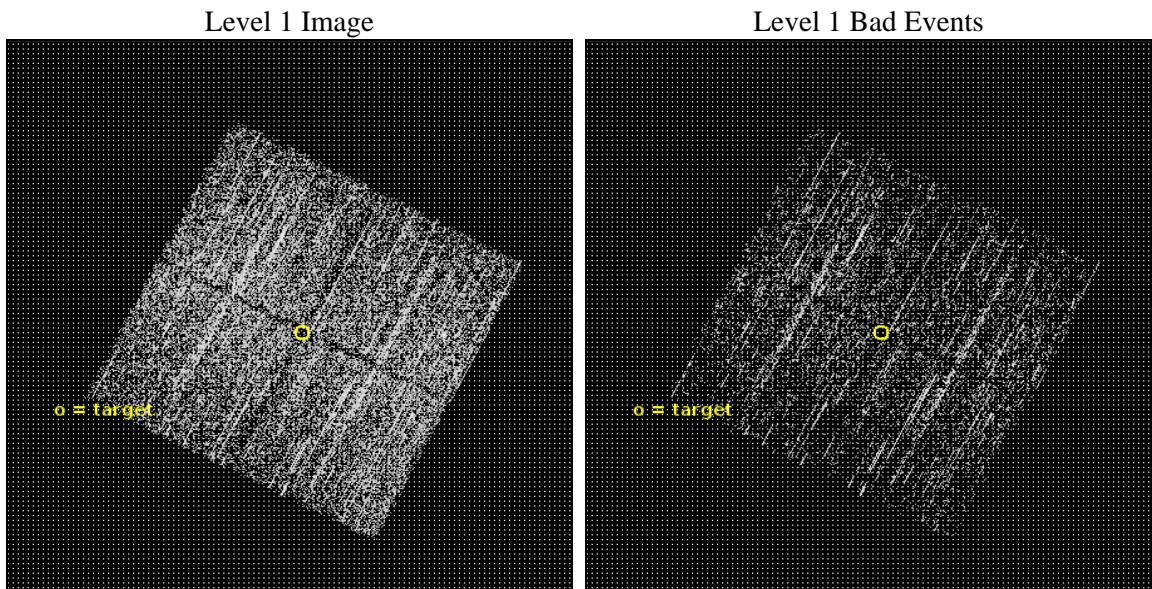
seq_num	300416	Sequence number
obs_id	21584	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.9634	Observer's specified target RA [deg]
dec_targ	-29.847932	Observer's specified target Dec [deg]
ra_nom	266.97722567886	Nominal RA [deg]
dec_nom	-29.840082280732	Nominal Dec [deg]
roll_nom	297.2155983365	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1908.1913713217	Sum of GTIs [s]
livetime	1883.2594462653	Livetime [s]
ontime0	1908.1503216028	Sum of GTIs [s]
ontime1	1908.1913713217	Sum of GTIs [s]
ontime2	1908.2324016094	Sum of GTIs [s]
ontime3	1908.2734513283	Sum of GTIs [s]
l2events	7058	Number of level 2 events



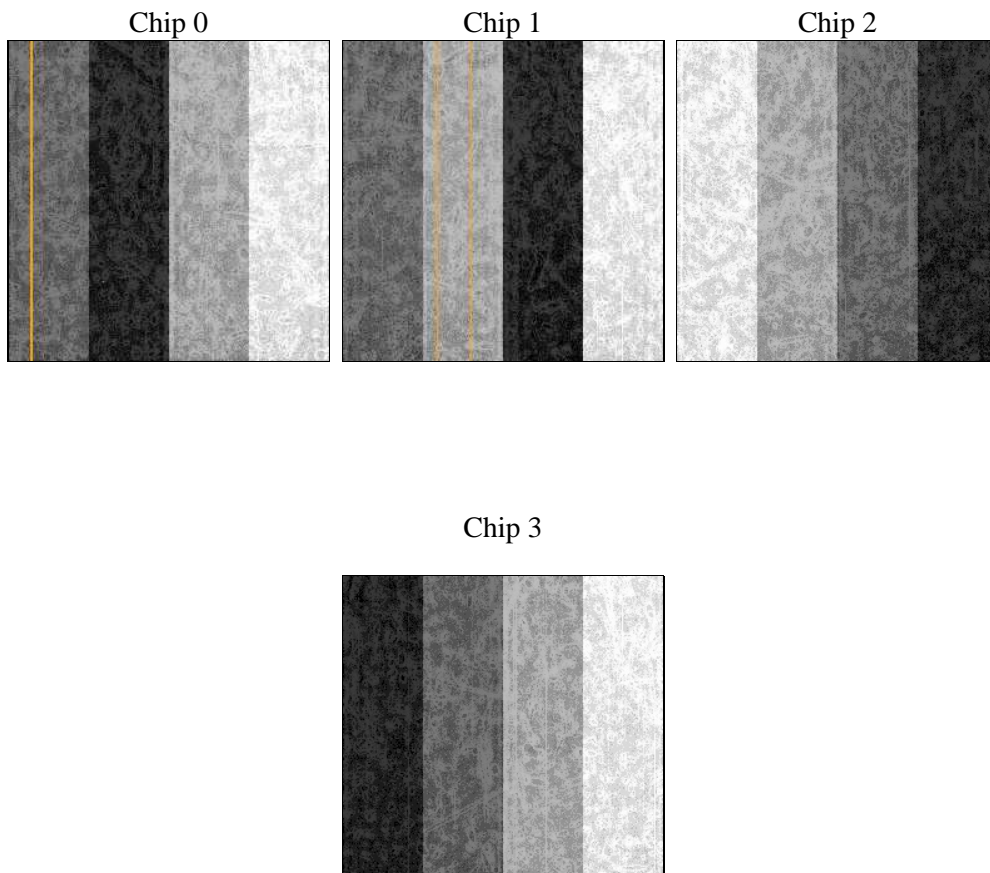
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.1913713217	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.1503216028	Sum of GTIs [s]
date	2019-07-08T16:50:59	Date and time of file creation	ontime1	1908.1913713217	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1908.2324016094	Sum of GTIs [s]
			ontime3	1908.2734513283	Sum of GTIs [s]
			l1events	55710	Number of level 1 events

2.1.4 Events

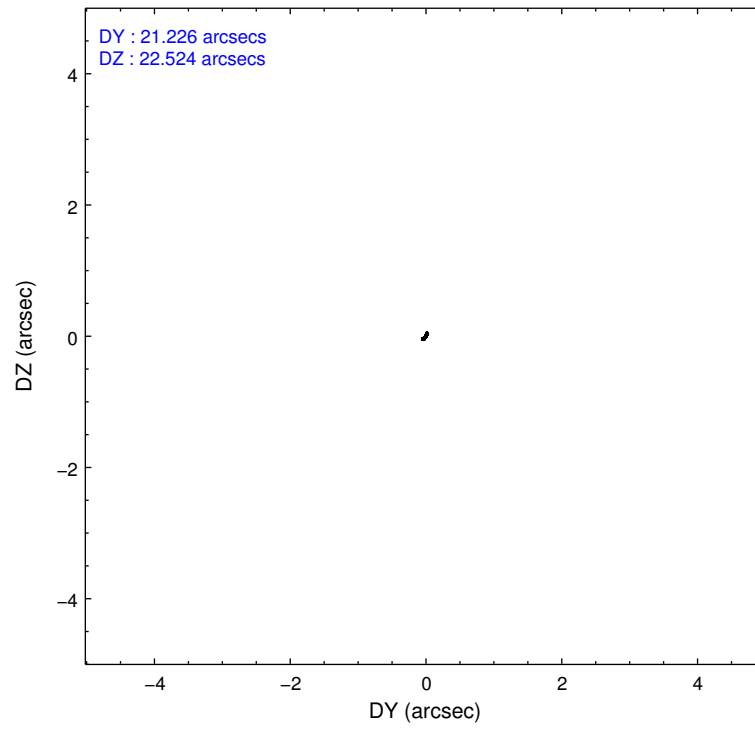
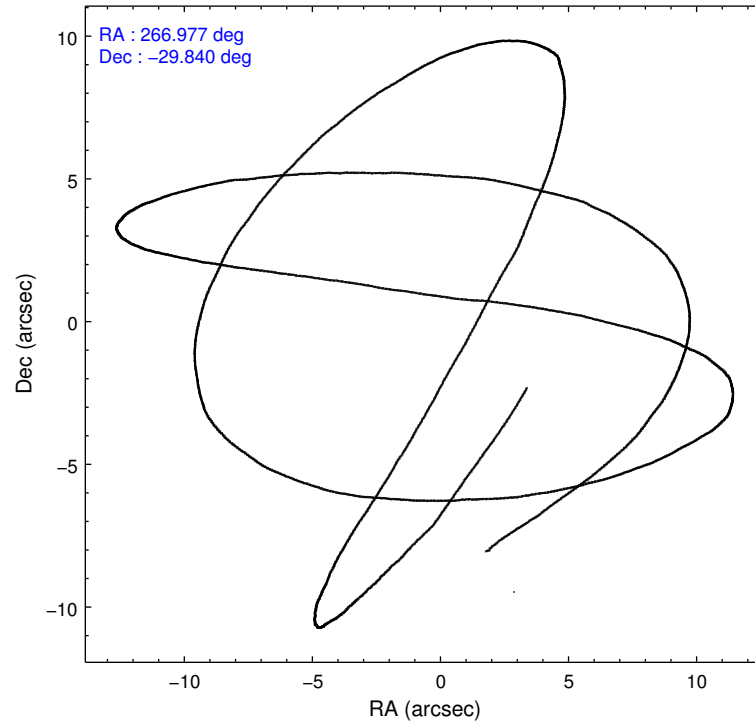
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14077	14005	13334	14294
rejected events	11593	11740	11531	12519
rejected %	82%	83%	86%	87%

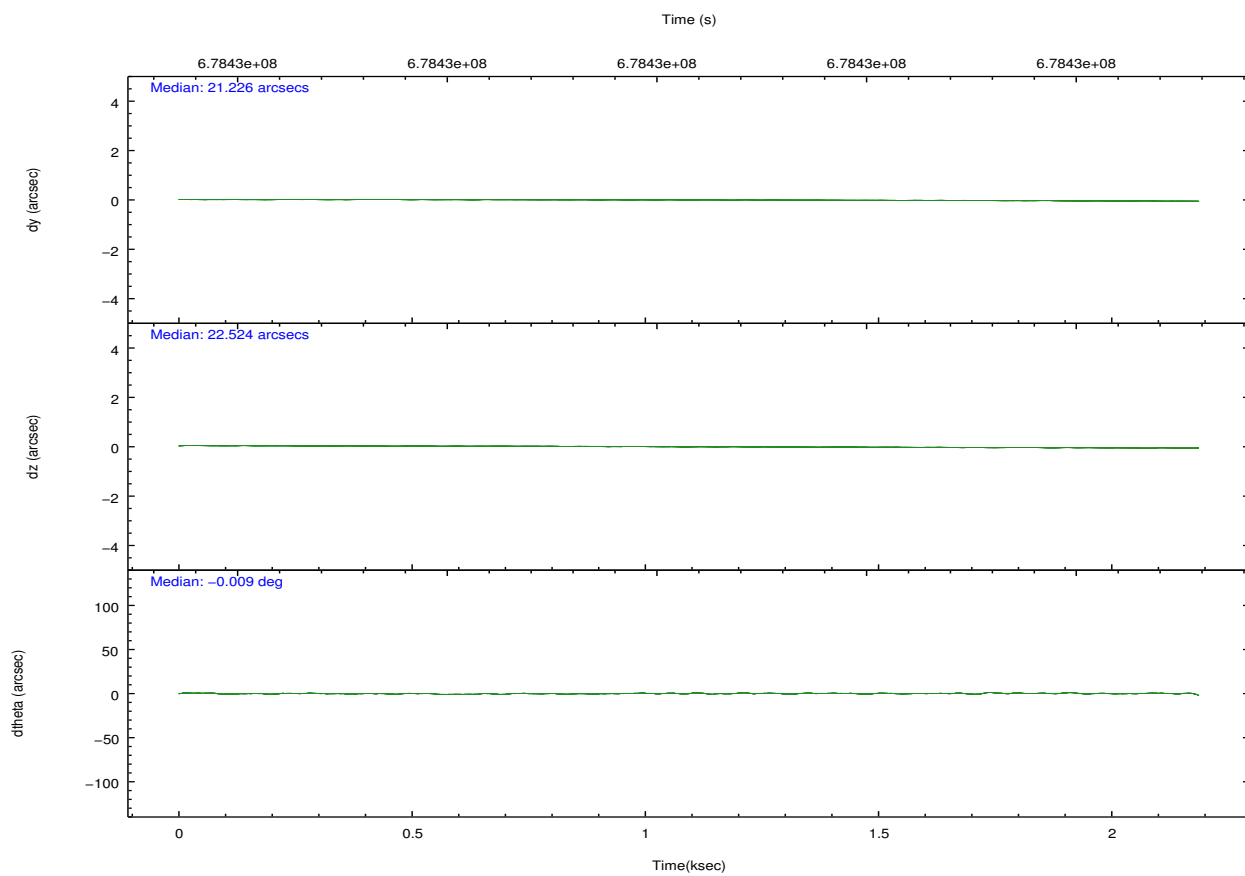
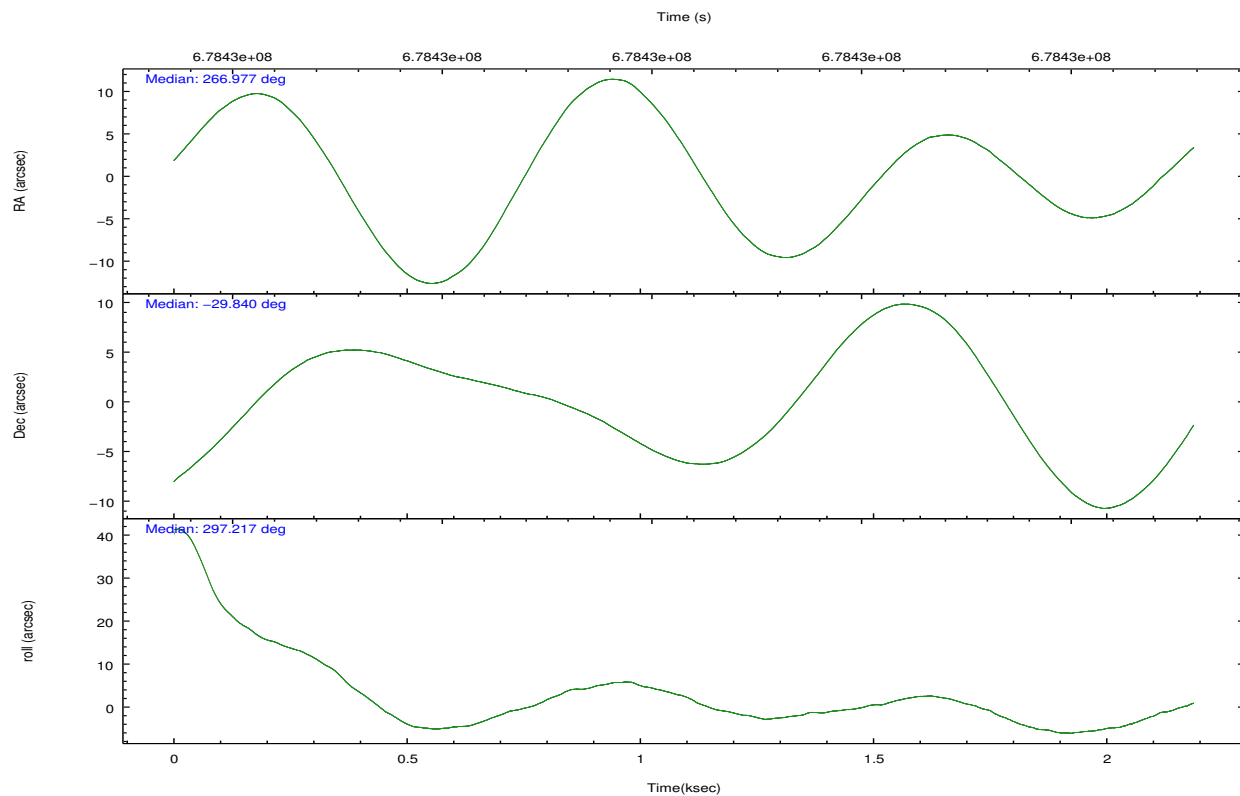
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1174	923	742	750
	8%	6%	5%	5%
grade 1 events	10	9	5	8
	0%	0%	0%	0%
grade 2 events	504	519	393	361
	3%	3%	2%	2%
grade 3 events	223	199	159	161
	1%	1%	1%	1%
grade 4 events	188	186	174	171
	1%	1%	1%	1%
grade 5 events	662	696	685	742
	4%	4%	5%	5%
grade 6 events	400	443	338	337
	2%	3%	2%	2%
grade 7 events	10916	11030	10838	11764
	77%	78%	81%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.950296	266.9772256788591	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.825094	-29.84008228073238	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993480	297.2155983365005	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	678431677.184000	678431301.34185			
Observation start date	2019-07-02T05:13:28	2019-07-02T05:08:21			
[s] Observation end time (MET)	678433677.184000	678433811.567			
Observation end date	2019-07-02T05:46:48	2019-07-02T05:50:11			
Read mode	TIMED	TIMED			

2.3 Aspect



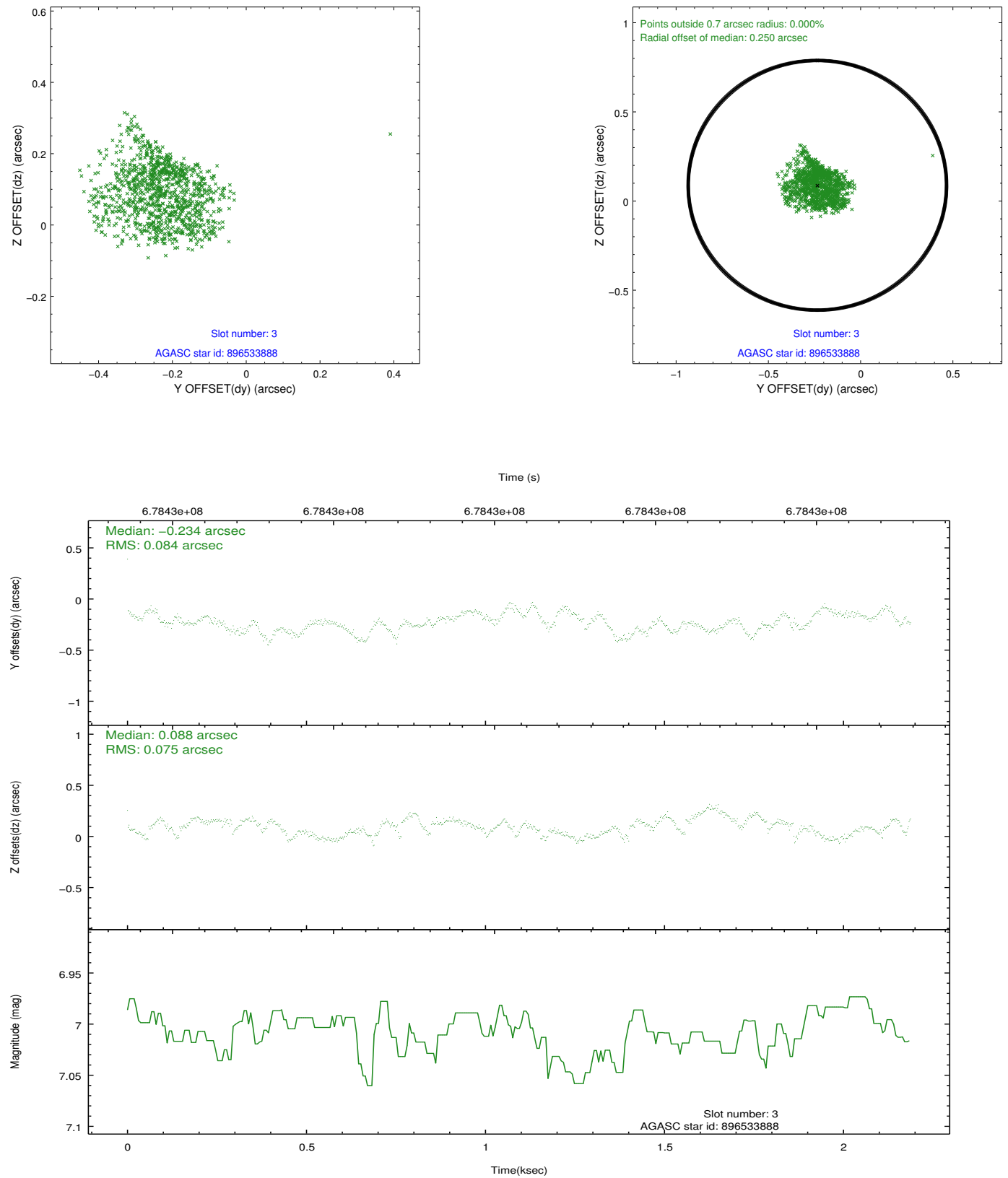


Slot Statistics

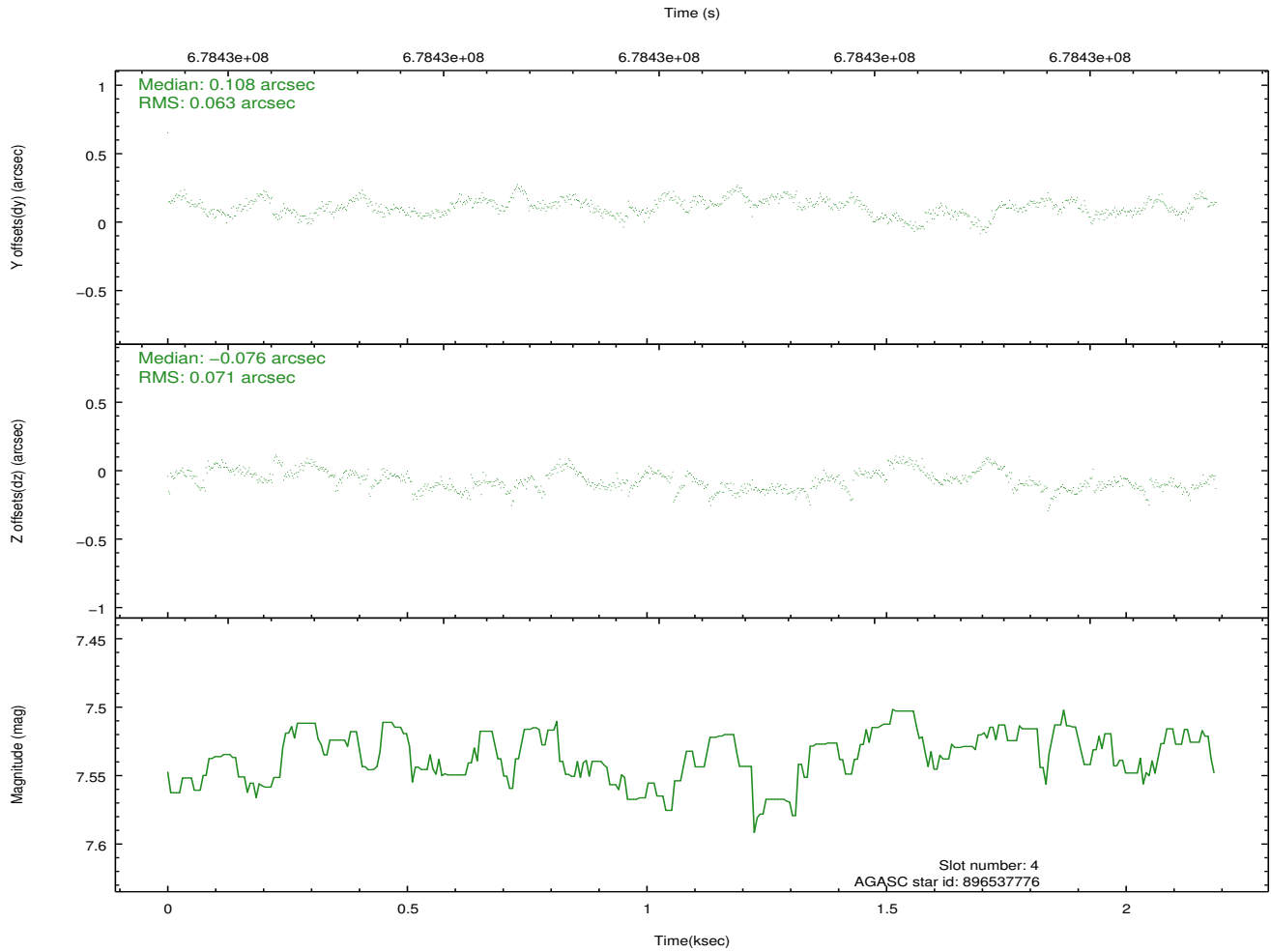
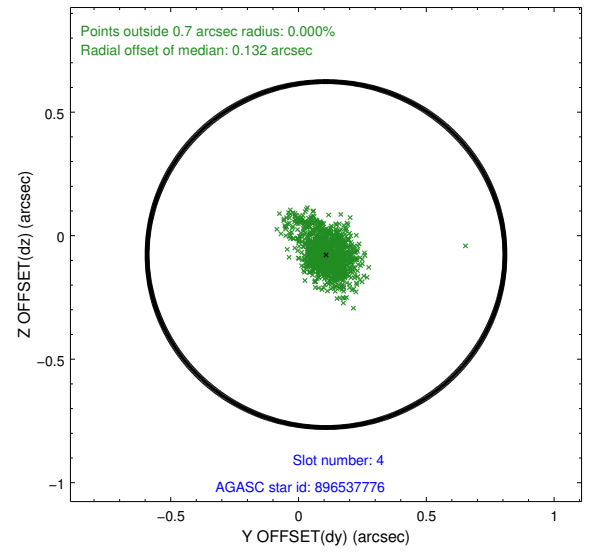
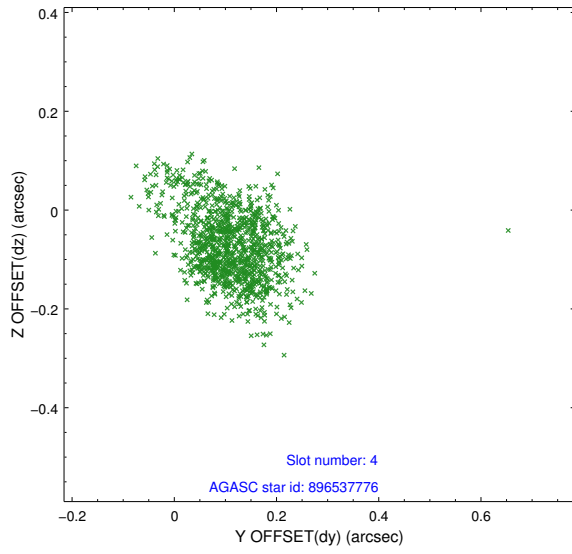
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	534	1.000	0.116	-0.081	0.007	0.012	0.000000	0.000000	918.28	-846
1	FID		ACIS-I-5	7.14	534	1.000	-0.606	-0.000	0.006	0.012	0.000000	0.000000	-1829.13	1049
2	FID		ACIS-I-6	7.17	534	1.000	0.399	0.153	0.006	0.011	0.000000	0.000000	380.56	1697
3	GUIDE	used	896533888	7.01	1068	1.000	-0.234	0.088	0.121	0.185	266.666434	-29.392757	-1789.56	-86
4	GUIDE	used	896537776	7.53	1068	1.000	0.108	-0.076	0.096	0.172	266.655684	-29.665673	-929.71	-560
5	GUIDE	used	896541360	7.72	1068	1.000	-0.009	0.086	0.087	0.150	266.684478	-29.453744	-1569.01	-135
6	GUIDE	used	966926496	8.14	1066	1.000	-0.135	-0.251	0.161	0.235	267.109389	-30.299474	1745.23	-335
7	GUIDE	used	966918832	8.73	1066	1.000	0.251	0.160	0.161	0.277	266.278876	-30.183148	207.98	-2448

2.4 Star Slots

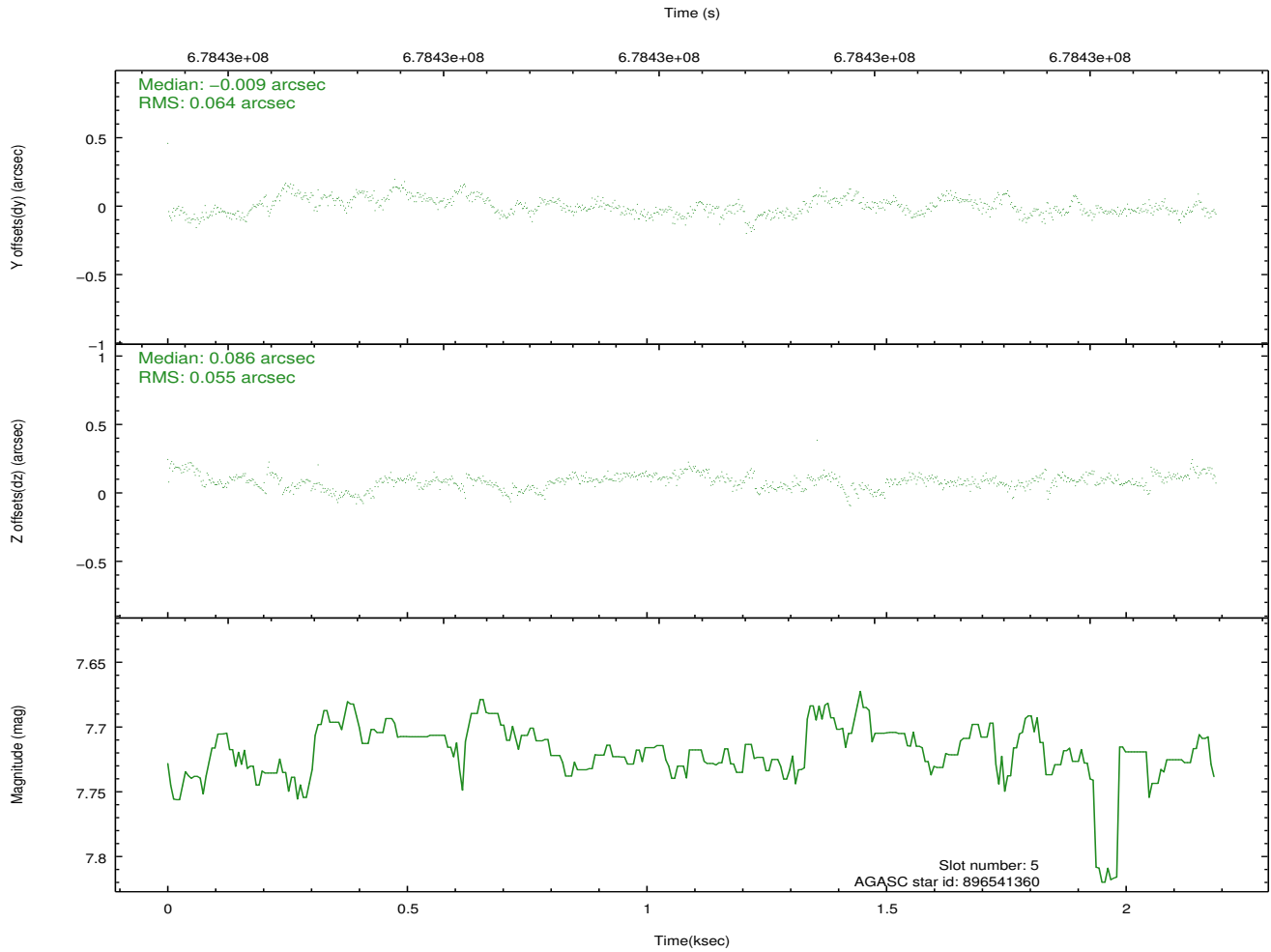
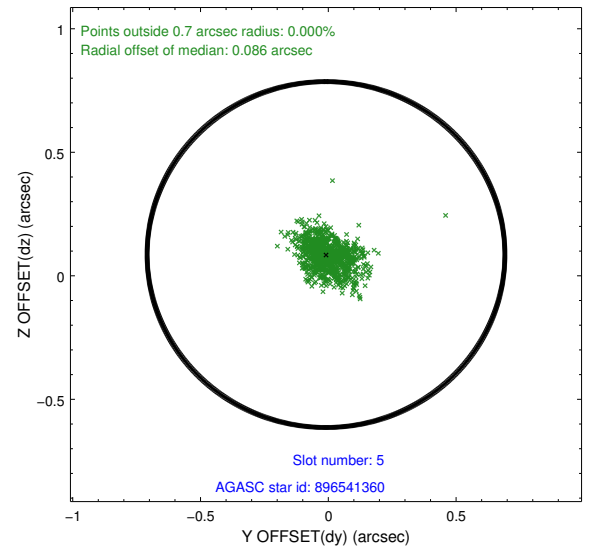
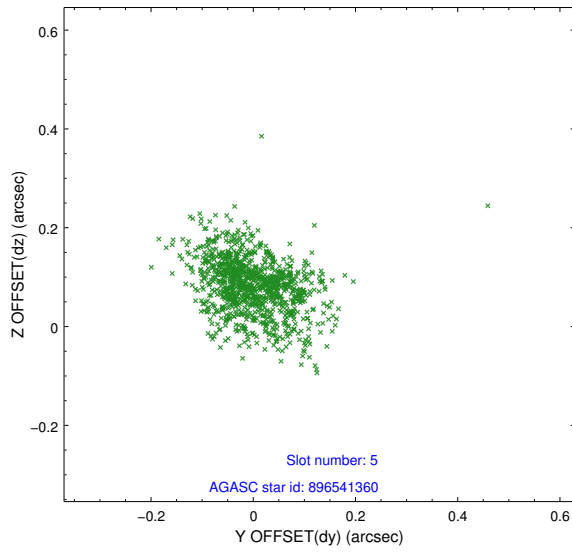
2.4.1 Slot 3



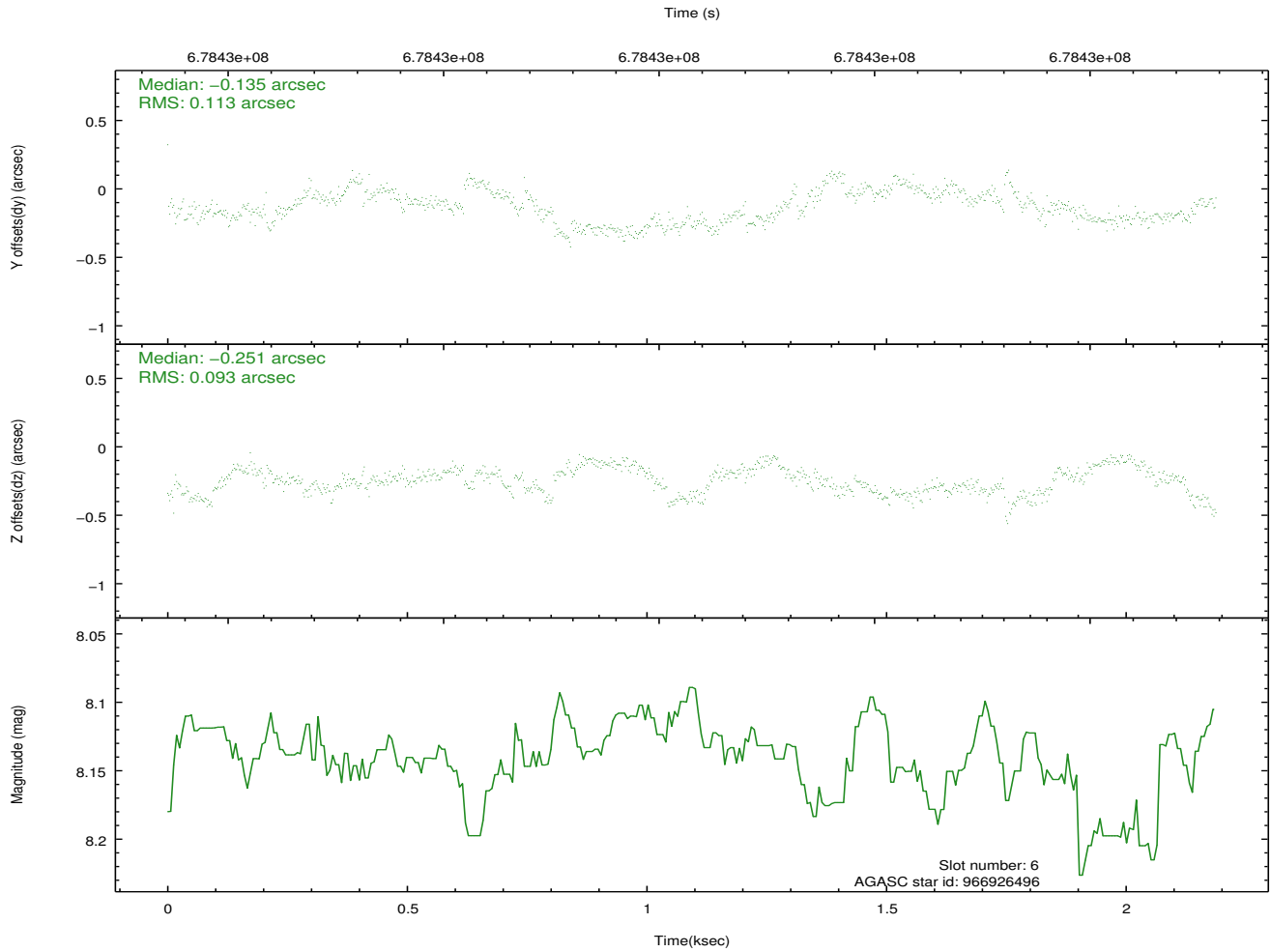
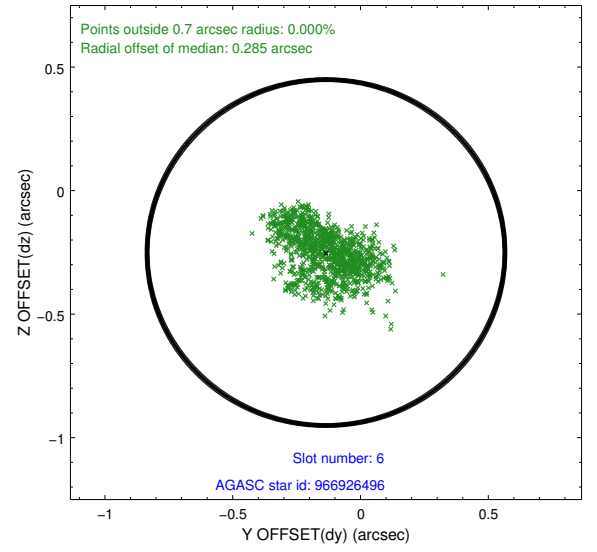
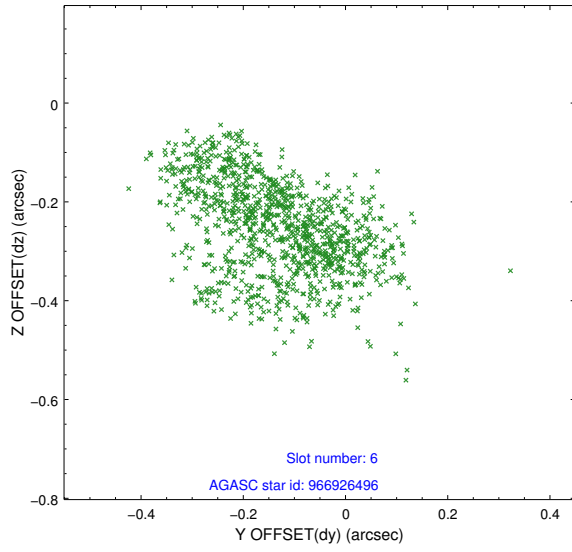
2.4.2 Slot 4



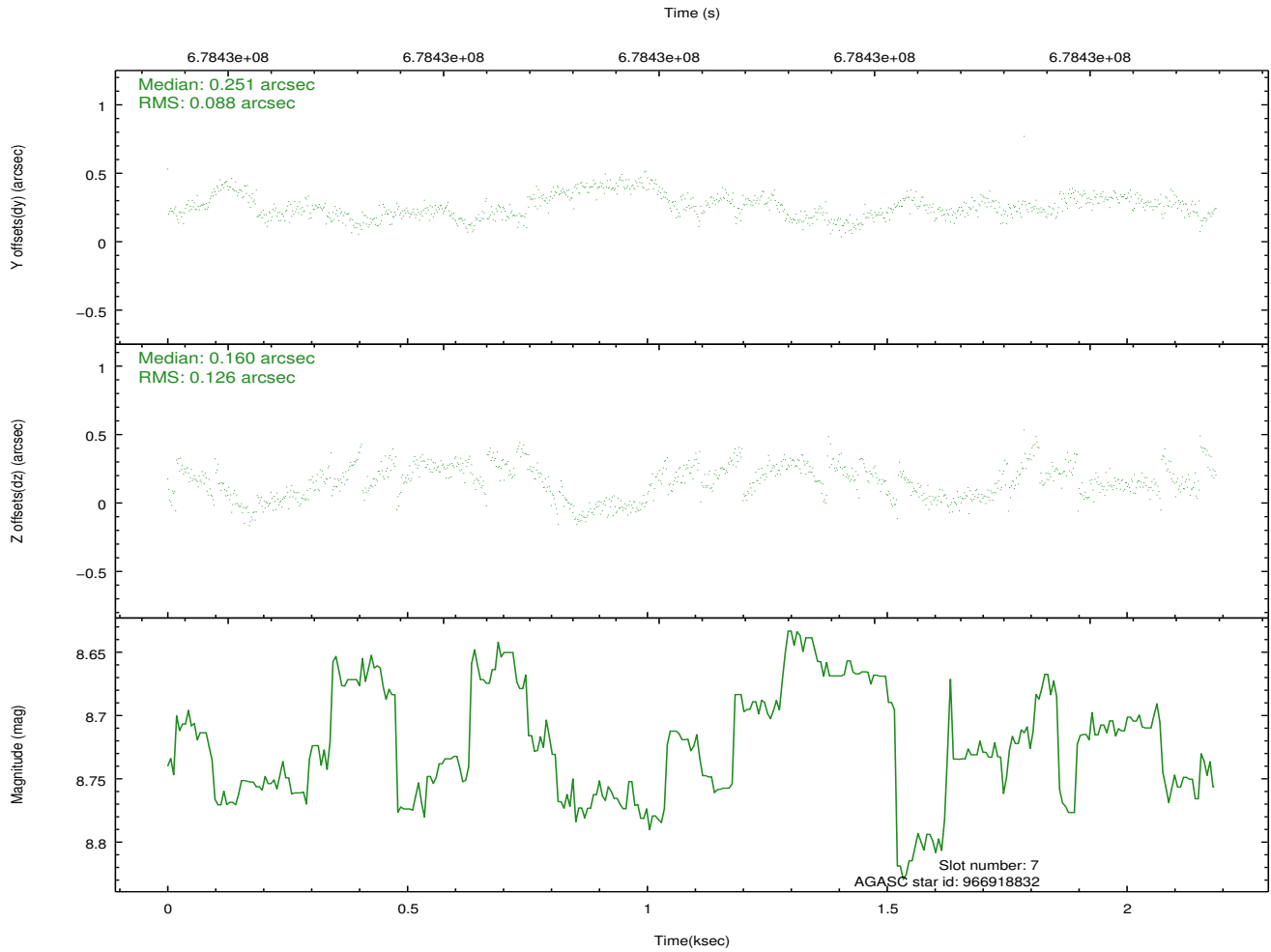
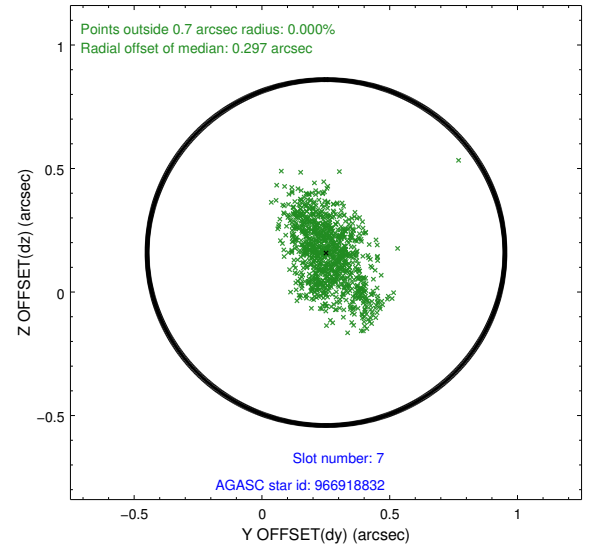
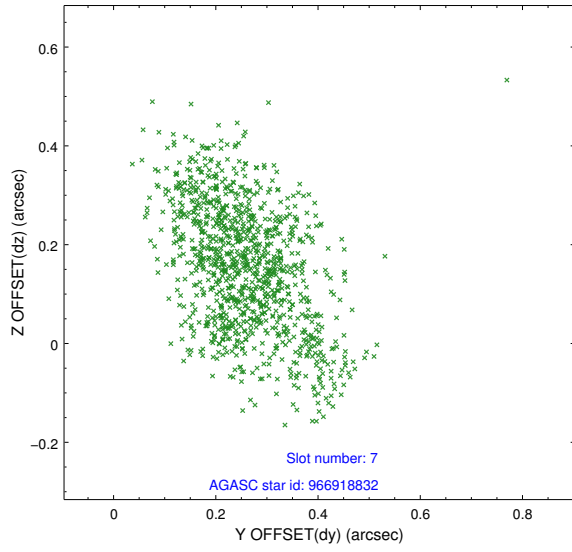
2.4.3 Slot 5



2.4.4 Slot 6

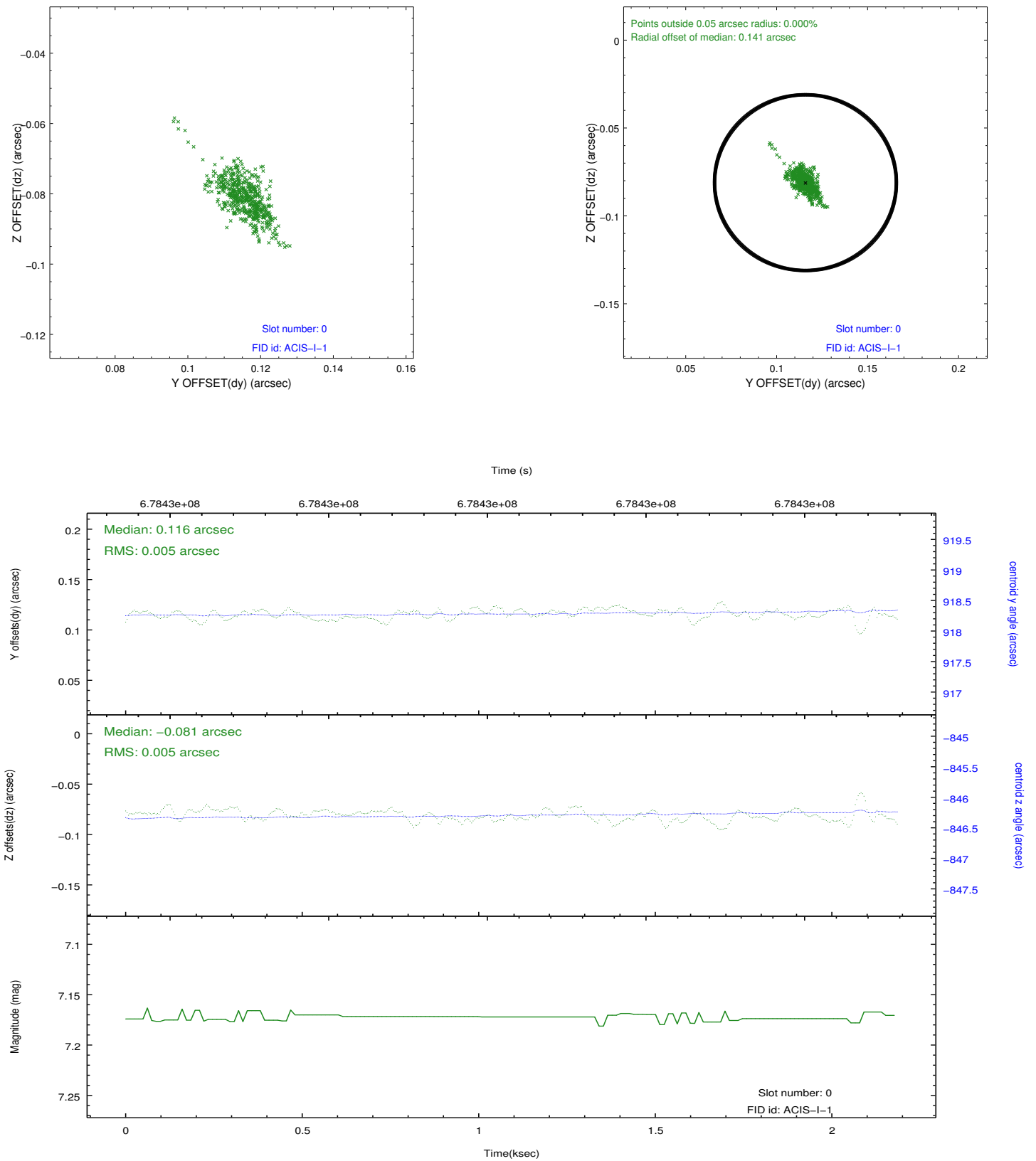


2.4.5 Slot 7

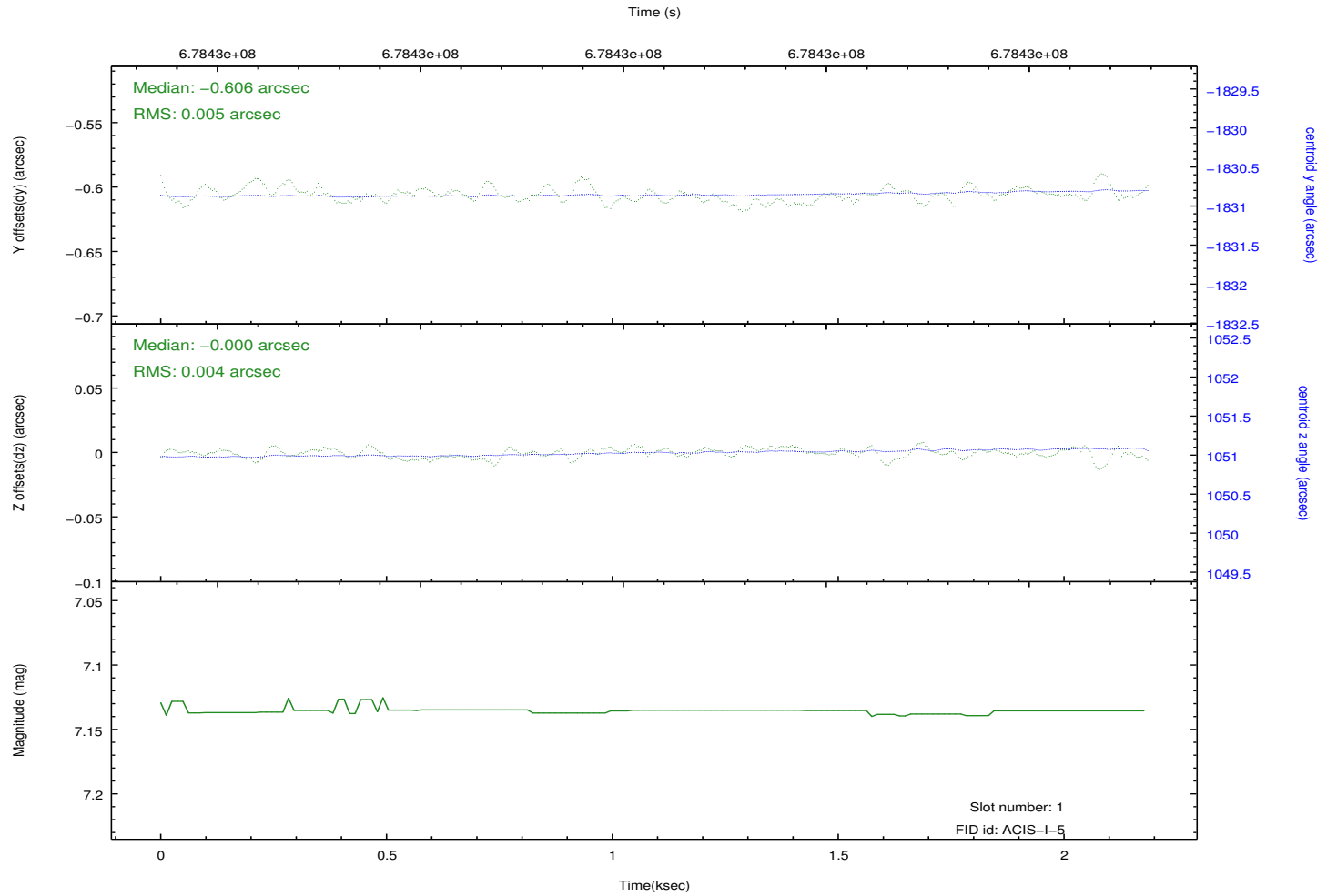
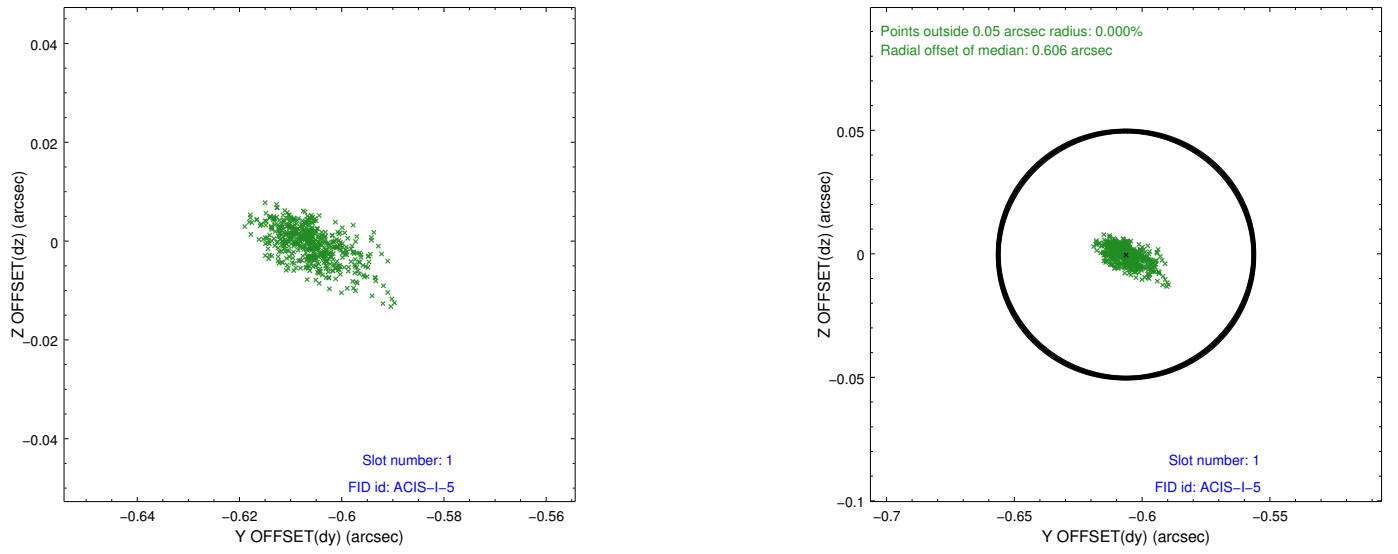


2.5 FID Slots

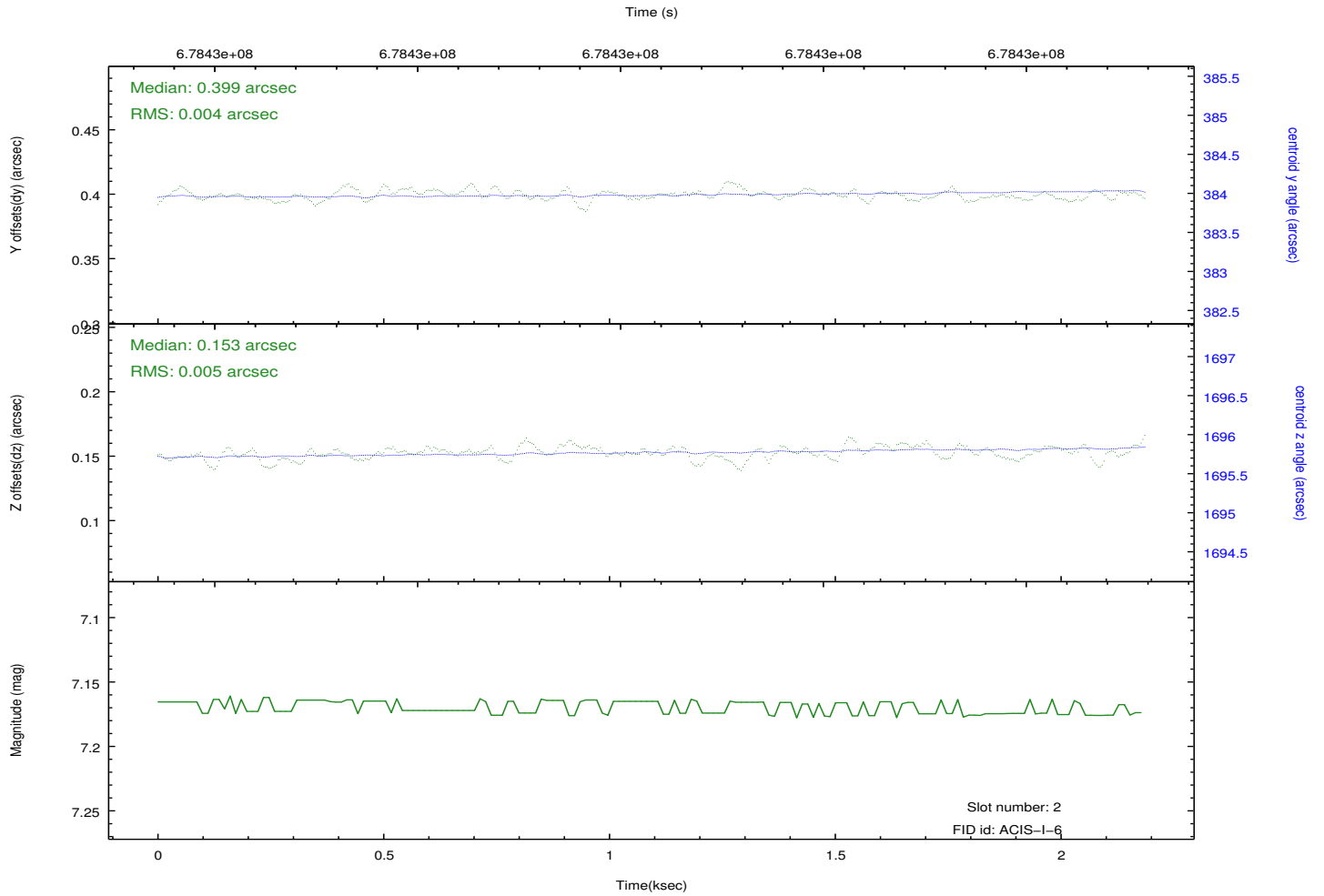
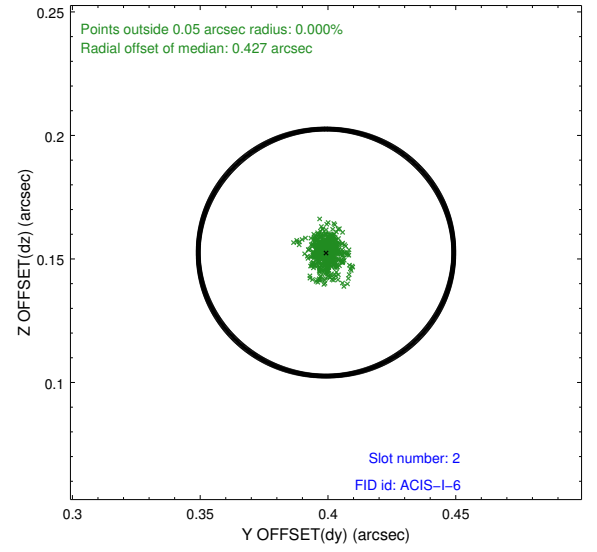
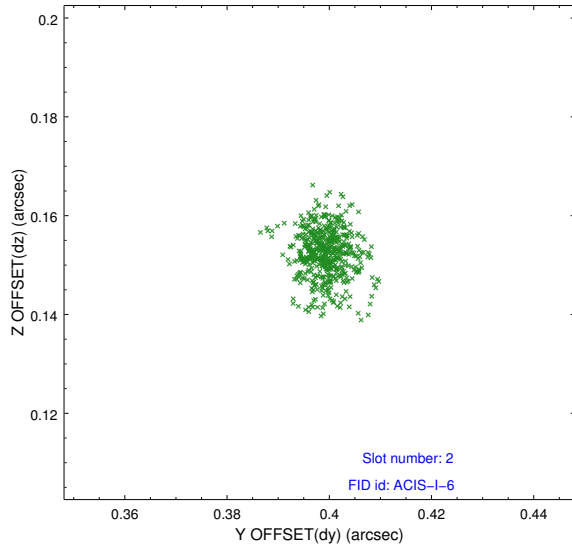
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9081913713217

A.2 Comments