

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17219 - L2 Version 1
Chandra X-Ray Center

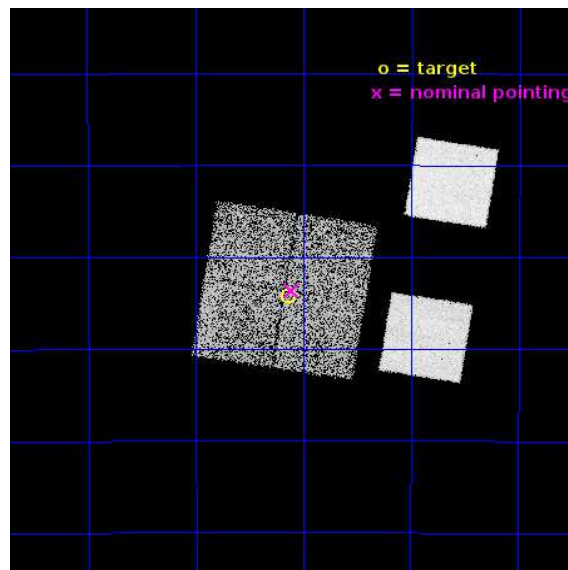
L2 Processing Date : Sep 10 2015

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1 Front

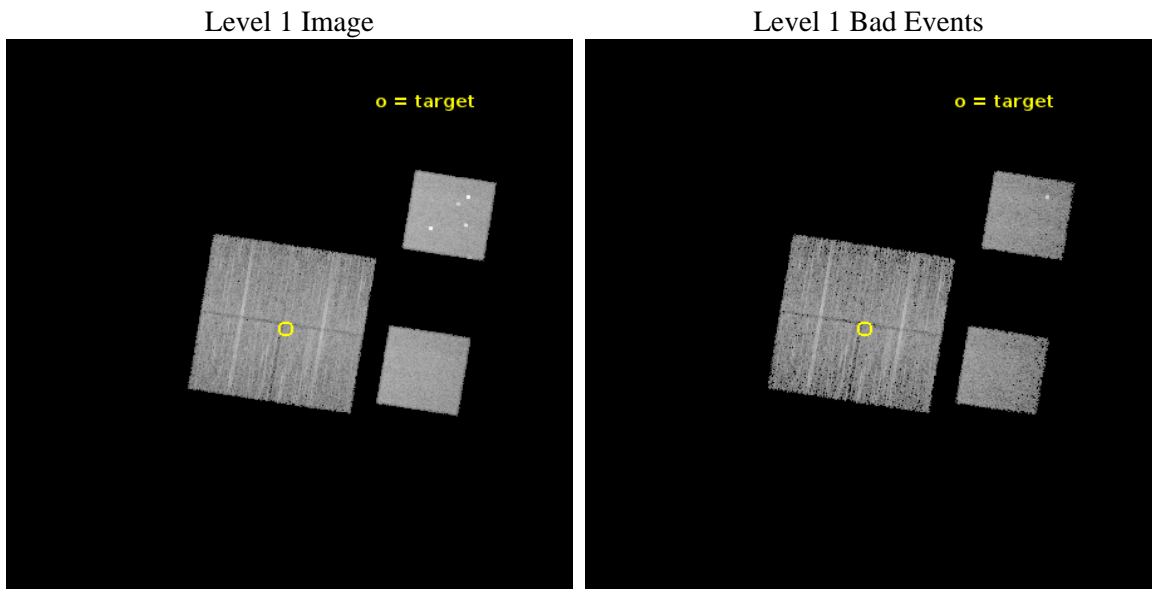
seq_num	801499	Sequence number
obs_id	17219	Observation id
title	Investigating a Potential Benchmark of Relaxed Clusters out to the Virial Radius	Proposal title
observer	Dr. Yuanyuan Su	Principal investigator
object	ESO 3060170 Offset	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	85.034167	Observer's specified target RA [deg]
dec_targ	-41.236611	Observer's specified target Dec [deg]
ra_nom	85.027911063202	Nominal RA [deg]
dec_nom	-41.227767568451	Nominal Dec [deg]
roll_nom	99.037446139238	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9961.1657067537	Sum of GTIs [s]
livetime	9835.0314286809	Livetime [s]
ontime0	9961.288826704	Sum of GTIs [s]
ontime1	9961.0836267471	Sum of GTIs [s]
ontime2	9961.1246666908	Sum of GTIs [s]
ontime3	9961.1657067537	Sum of GTIs [s]
ontime5	9961.2067466974	Sum of GTIs [s]
ontime7	9961.2477867603	Sum of GTIs [s]
l2events	87177	Number of level 2 events



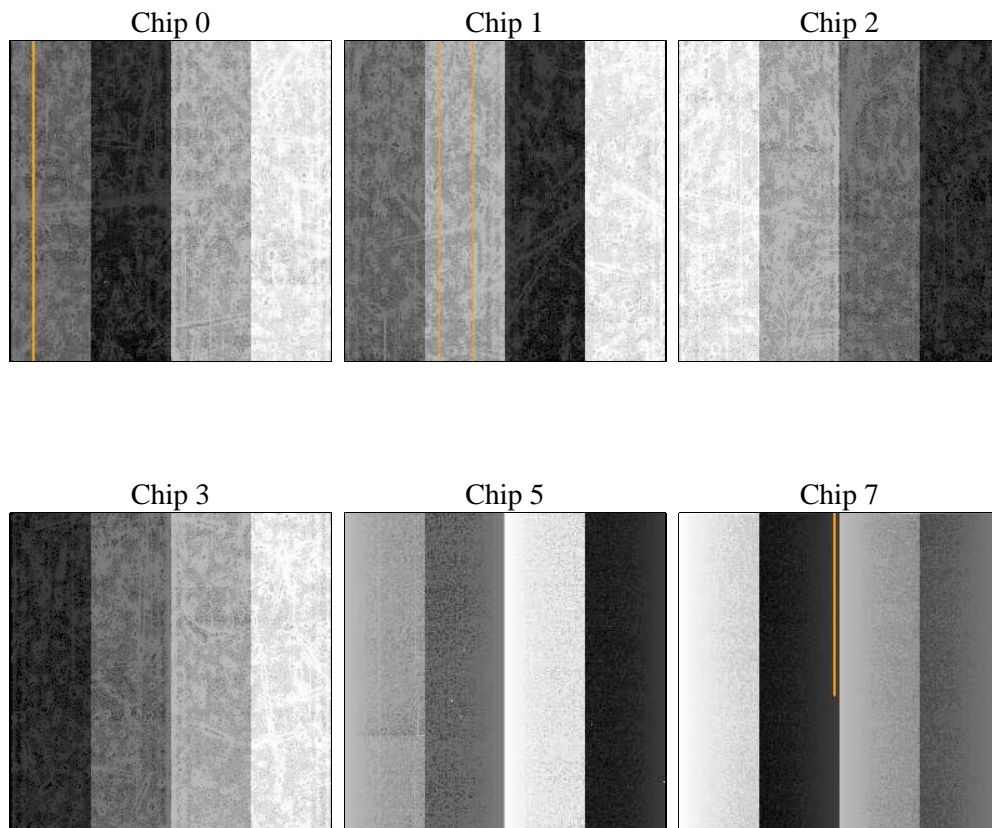
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	9961.1657067537	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	9961.288826704	Sum of GTIs [s]
date	2015-09-10T13:36:19	Date and time of file creation	ontime1	9961.0836267471	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9961.1246666908	Sum of GTIs [s]
			ontime3	9961.1657067537	Sum of GTIs [s]
			ontime5	9961.2067466974	Sum of GTIs [s]
			ontime7	9961.2477867603	Sum of GTIs [s]
			l1events	353450	Number of level 1 events

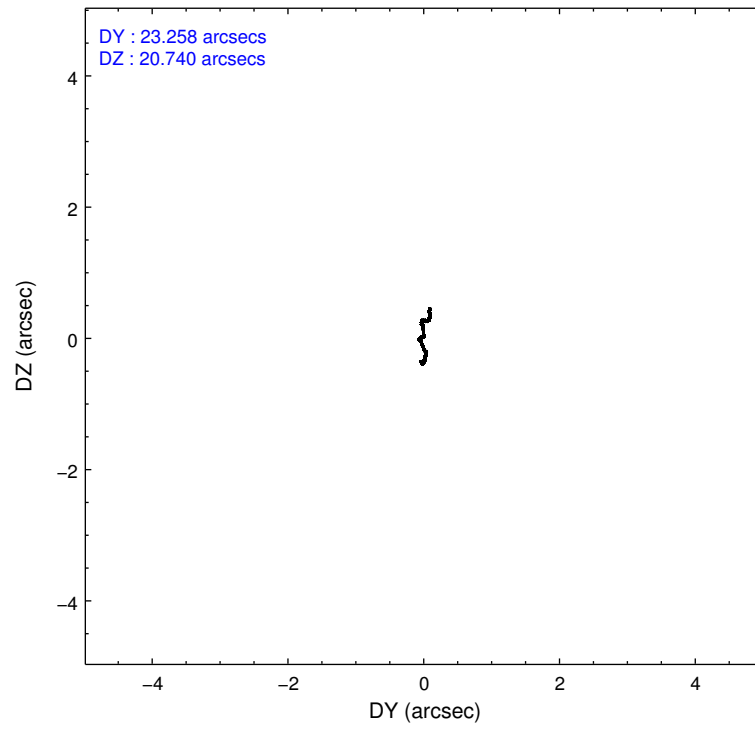
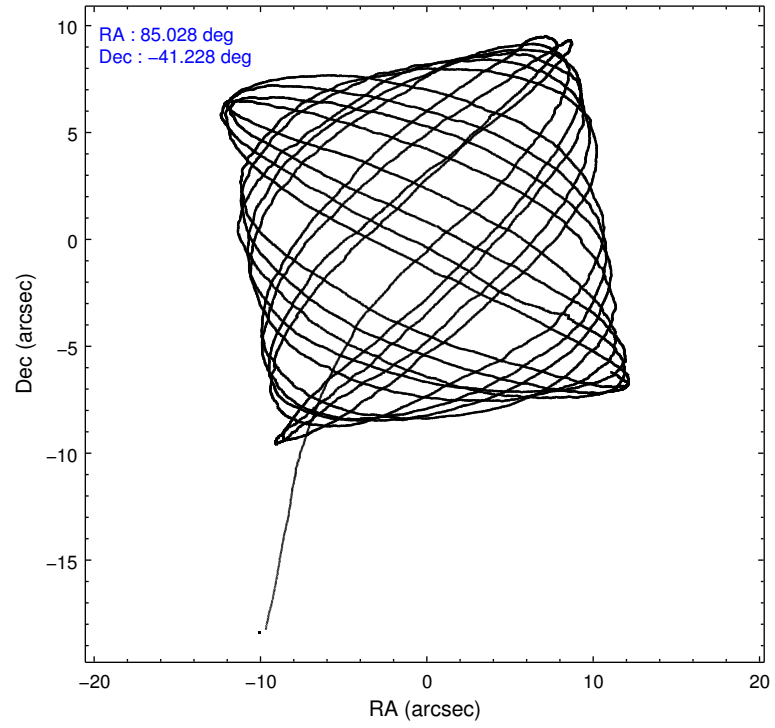
2.1.4 Events

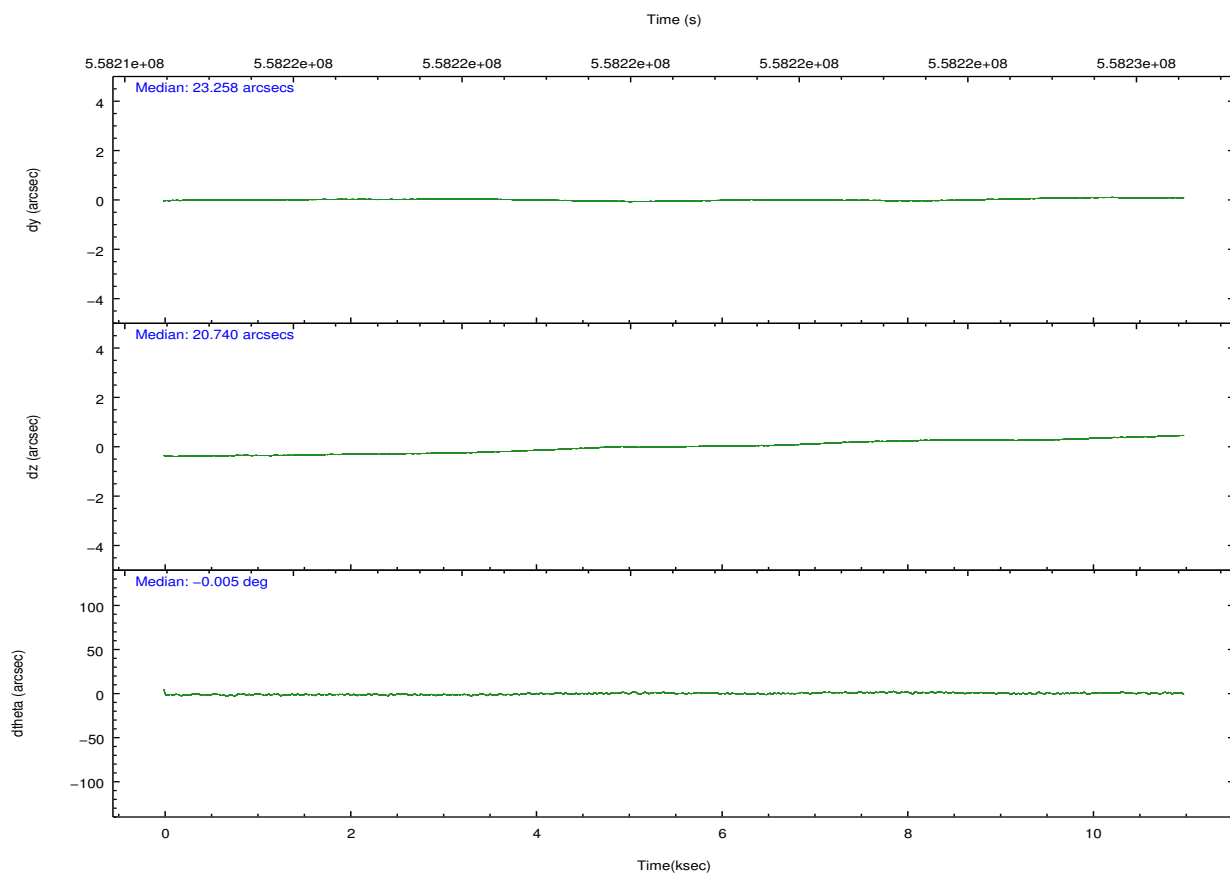
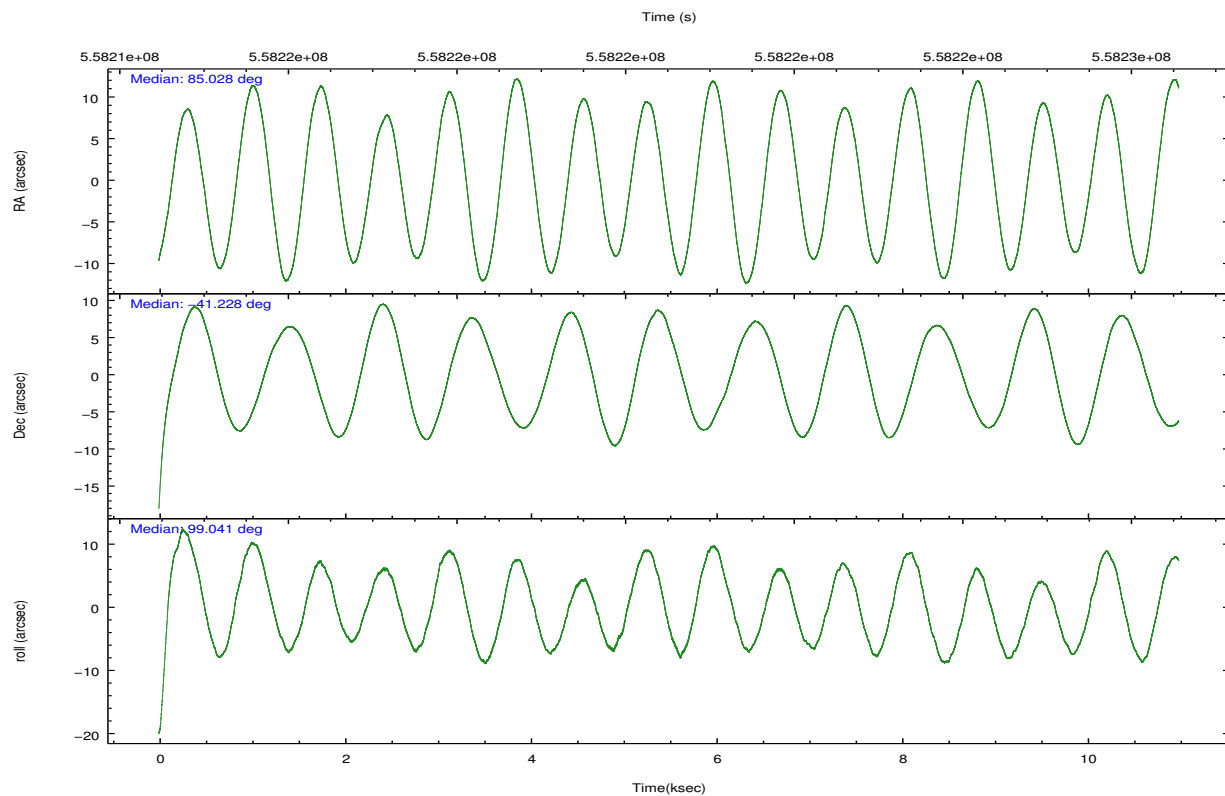
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	47087	47589	50301	48813	91234	68426	grade 0 events	1977	2219	2153	1907	7684	2652
rejected events	41003	41134	44323	43355	44540	38725		4%	4%	4%	3%	8%	3%
rejected %	87%	86%	88%	88%	48%	56%	grade 1 events	35	26	24	12	879	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	1599	1649	1399	1236	14433	6235
								3%	3%	2%	2%	15%	9%
							grade 3 events	615	584	549	582	1361	2407
								1%	1%	1%	1%	1%	3%
							grade 4 events	543	623	644	579	1334	2458
								1%	1%	1%	1%	1%	3%
							grade 5 events	2410	2489	2097	2631	6144	6929
								5%	5%	4%	5%	6%	10%
							grade 6 events	1352	1380	1234	1160	21909	15966
								2%	2%	2%	2%	24%	23%
							grade 7 events	38556	38619	42201	40706	37490	31701
								81%	81%	83%	83%	41%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	85.051114	85.02791106320156	CCD I2 on	Y	Y
[deg] Pointing Dec	-41.249139	-41.22776756845094	CCD I3 on	Y	Y
[deg] Pointing Roll	98.844074	99.03744613923789	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	558216013.184000	558214110.6097701	CCD S5 on	N	N
Observation start date	2015-09-09T19:59:05	2015-09-09T19:28:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	558226013.184000	558226755.01048	On-chip summing requested	N	N
Observation end date	2015-09-09T22:45:45	2015-09-09T22:59:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



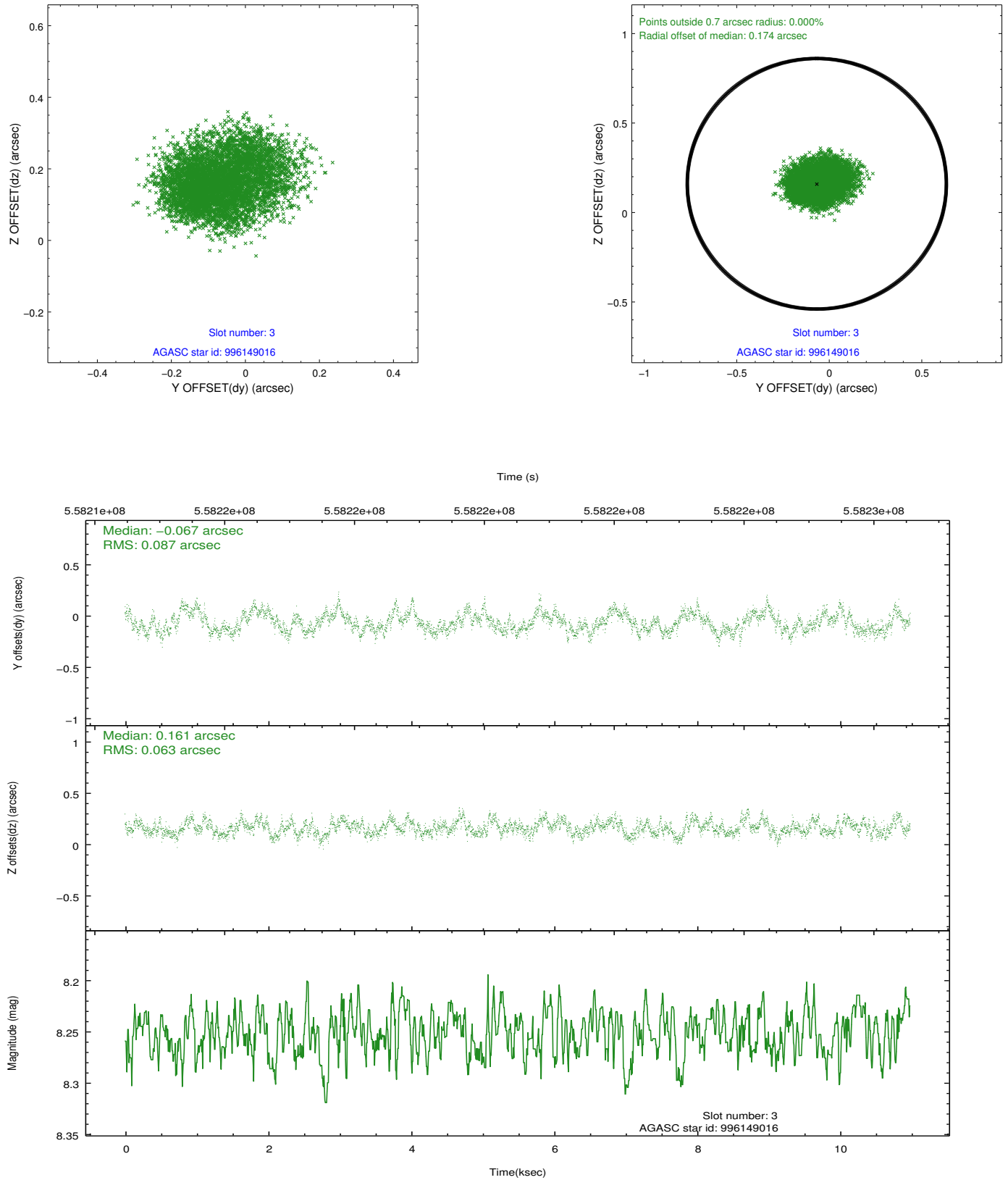


Slot Statistics

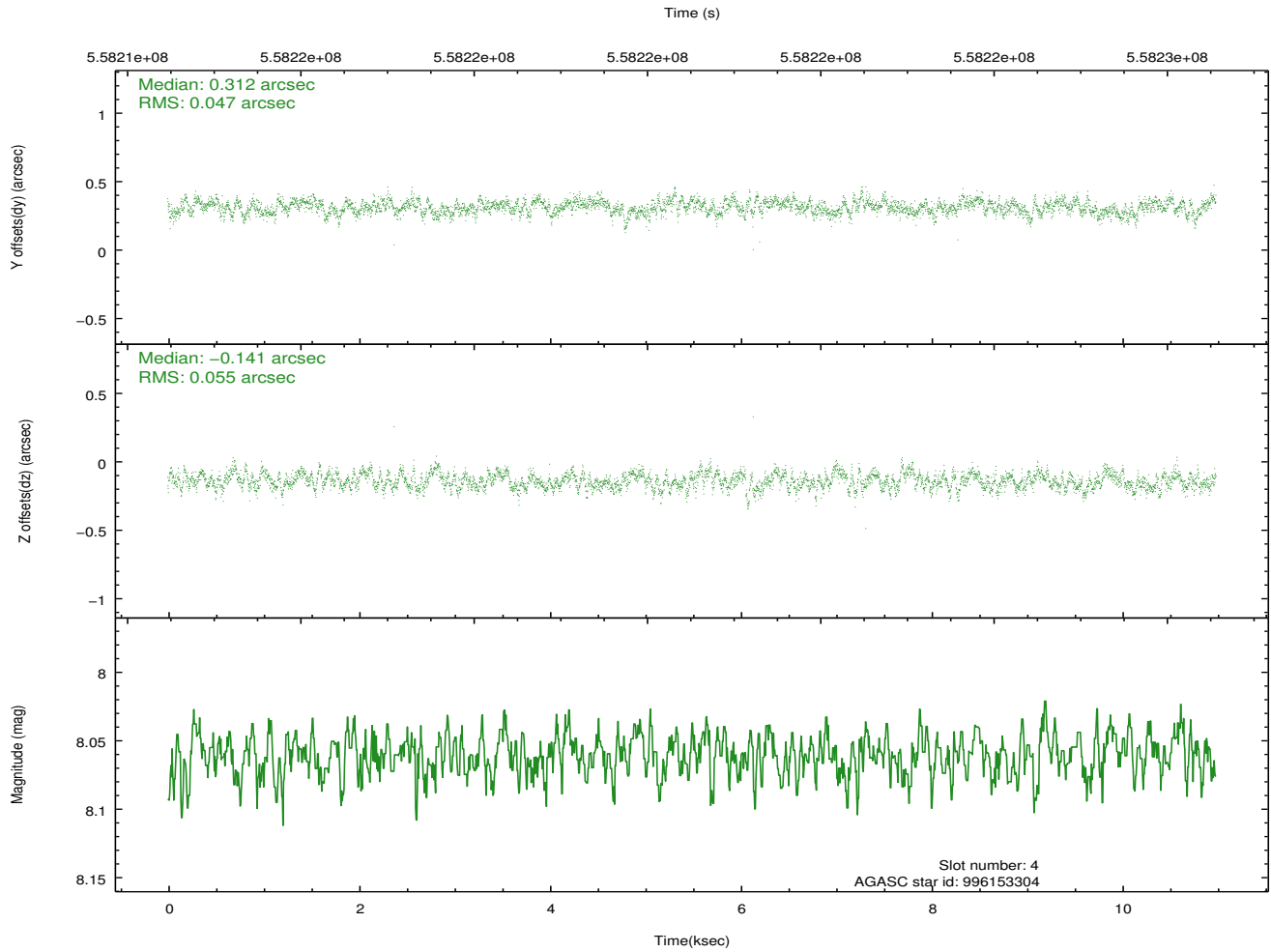
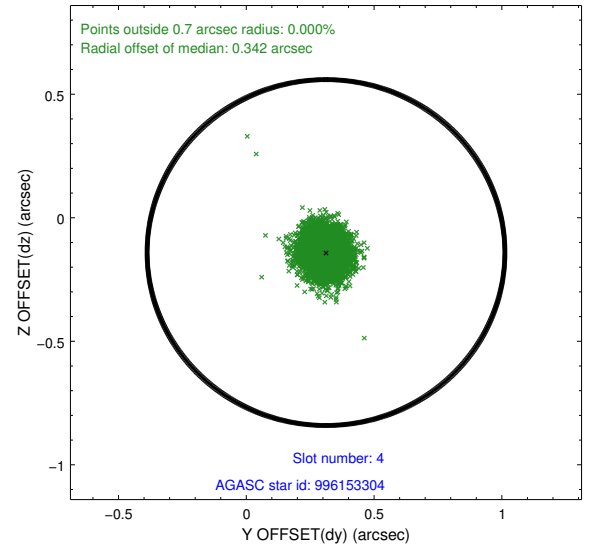
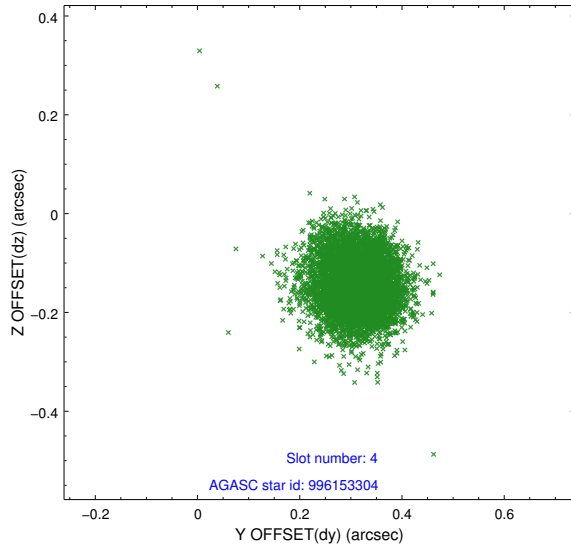
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	2680	-0.010	-0.141	0.019	0.030	0.000000	0.000000	916.00	-844.57
1	FID		ACIS-I-4	7.18	2680	0.383	0.126	0.012	0.019	0.000000	0.000000	2136.59	1055.33
2	FID		ACIS-I-5	7.24	2680	-0.472	0.086	0.010	0.015	0.000000	0.000000	-1831.96	1053.46
3	GUIDE	used	996149016	8.25	5358	-0.067	0.161	0.117	0.179	84.876958	-40.684038	2082.90	156.98
4	GUIDE	used	996153304	8.06	5357	0.312	-0.141	0.077	0.121	84.449102	-41.163019	552.42	1565.40
5	GUIDE	used	996682896	8.62	5356	-0.103	-0.064	0.089	0.140	84.530027	-41.650909	-1217.27	1607.81
6	GUIDE	used	996684400	8.37	5360	0.127	-0.047	0.085	0.138	84.797993	-41.753817	-1692.29	952.15
7	GUIDE	used	996684792	7.49	5359	-0.274	0.083	0.094	0.147	84.983704	-41.514257	-915.77	326.78

2.4 Star Slots

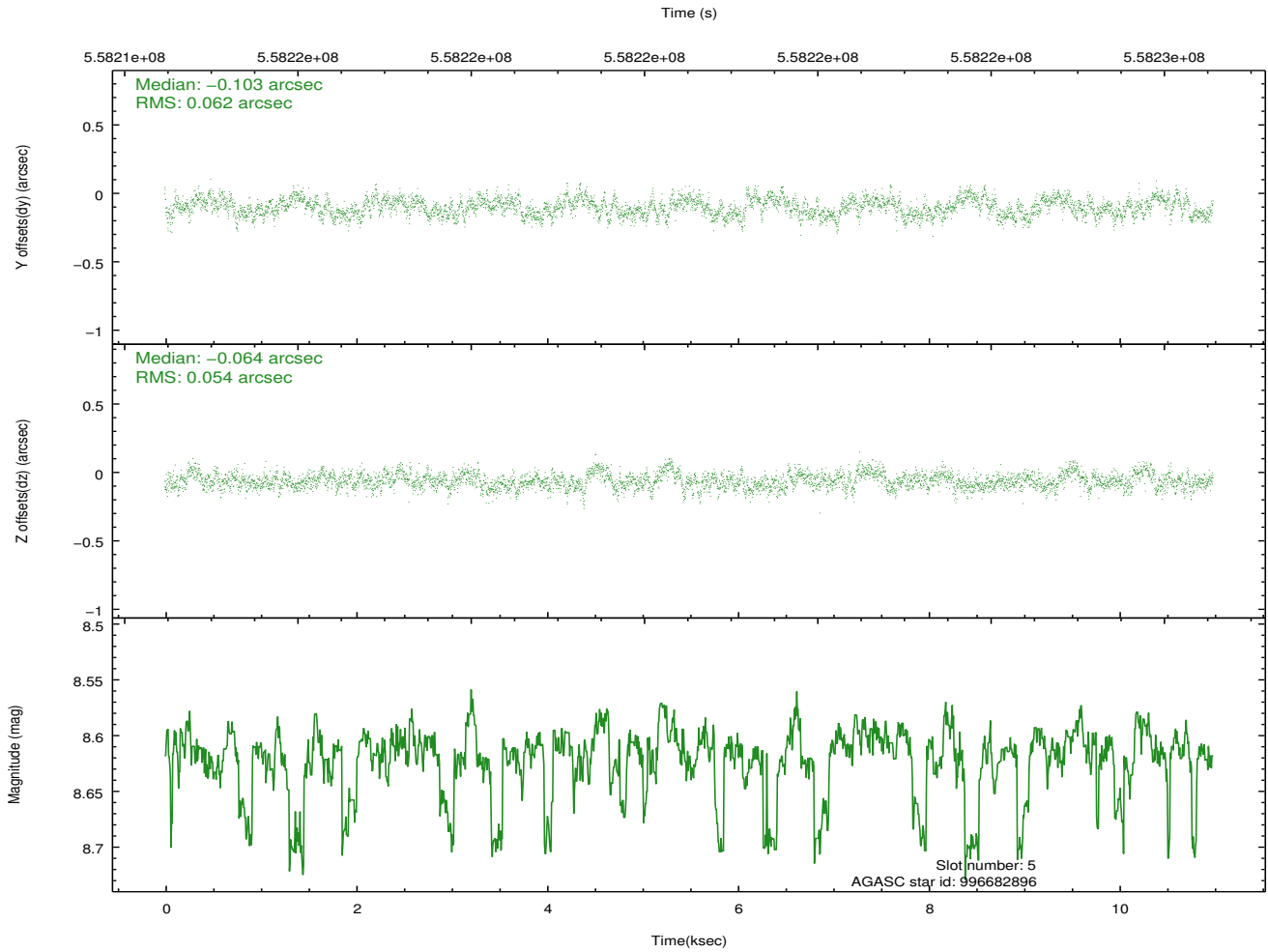
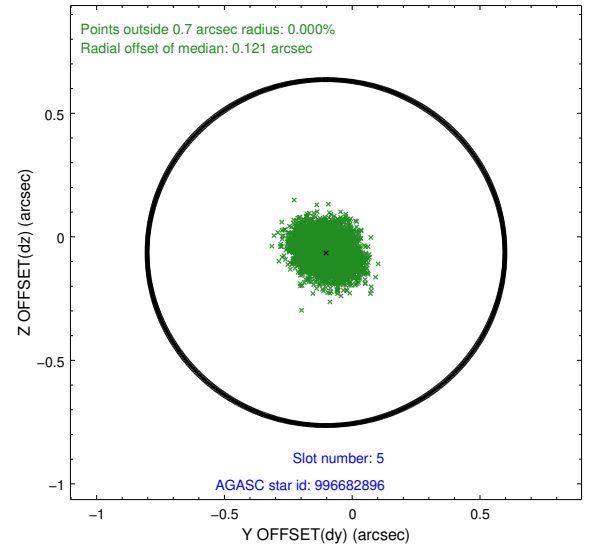
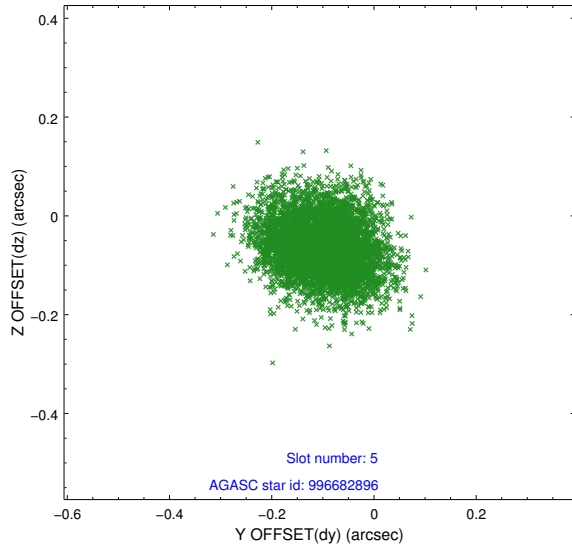
2.4.1 Slot 3



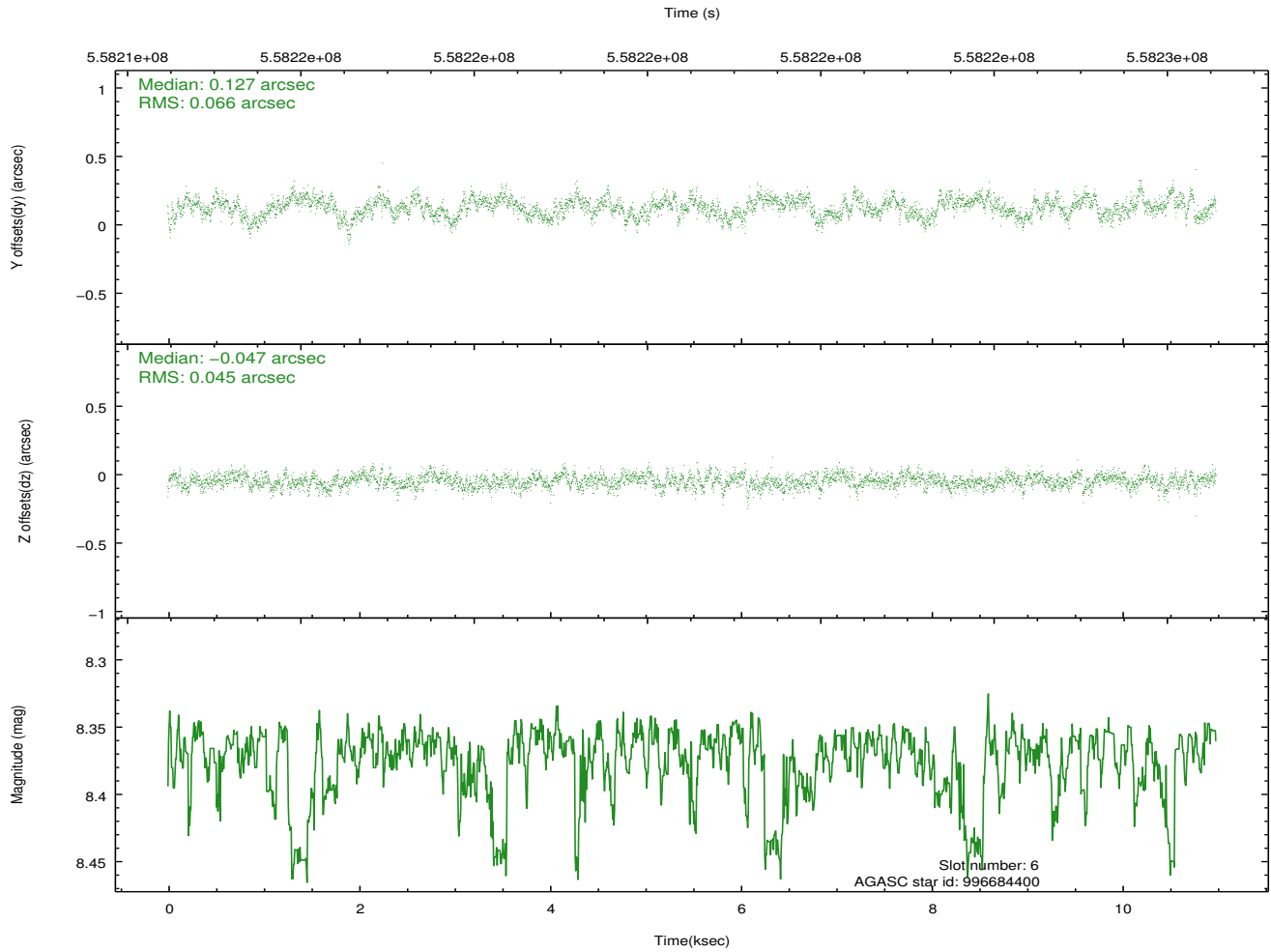
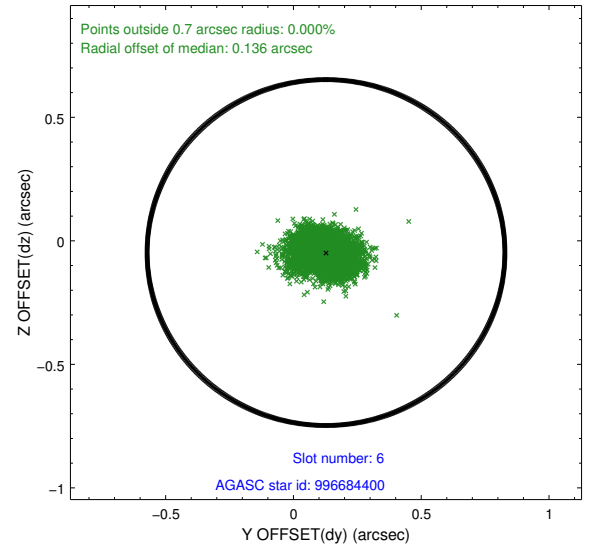
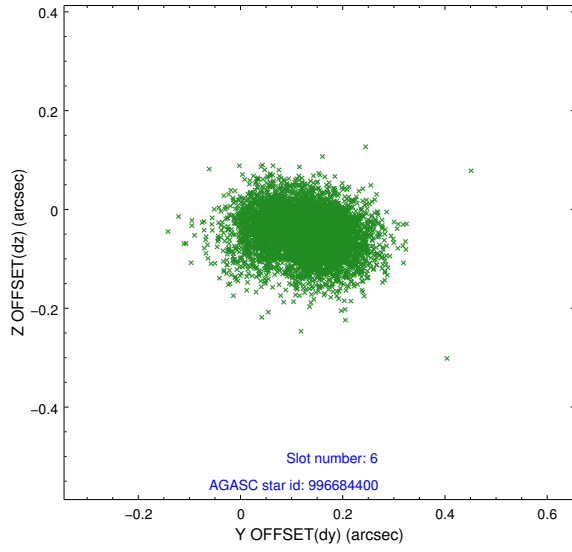
2.4.2 Slot 4



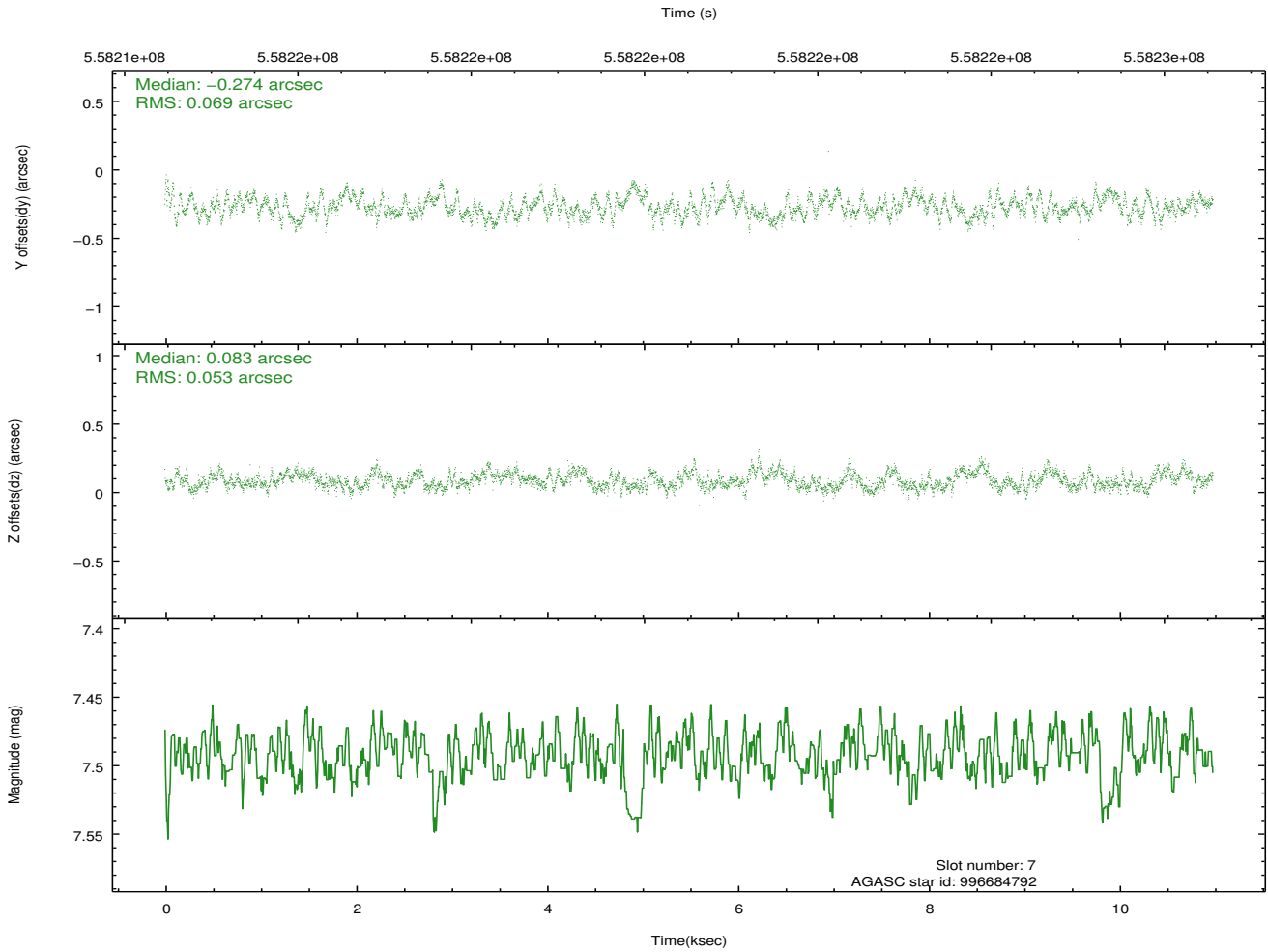
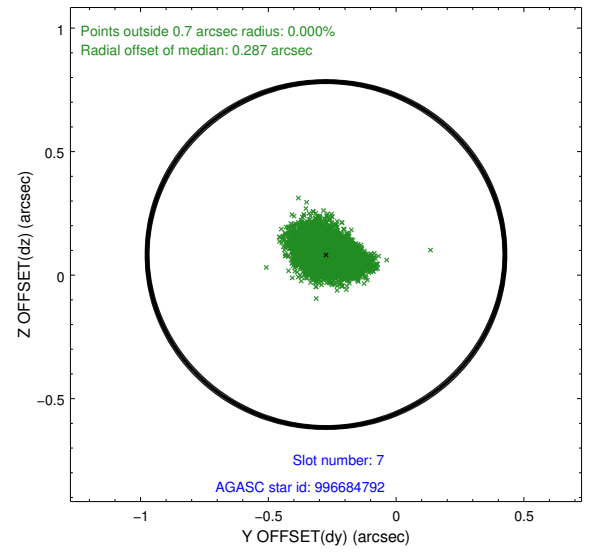
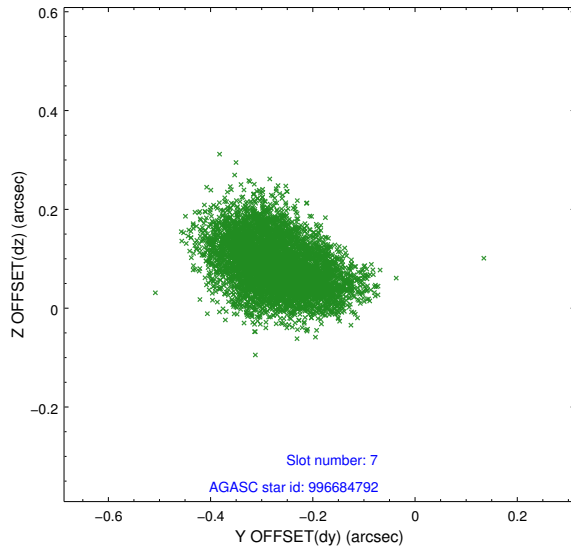
2.4.3 Slot 5



2.4.4 Slot 6

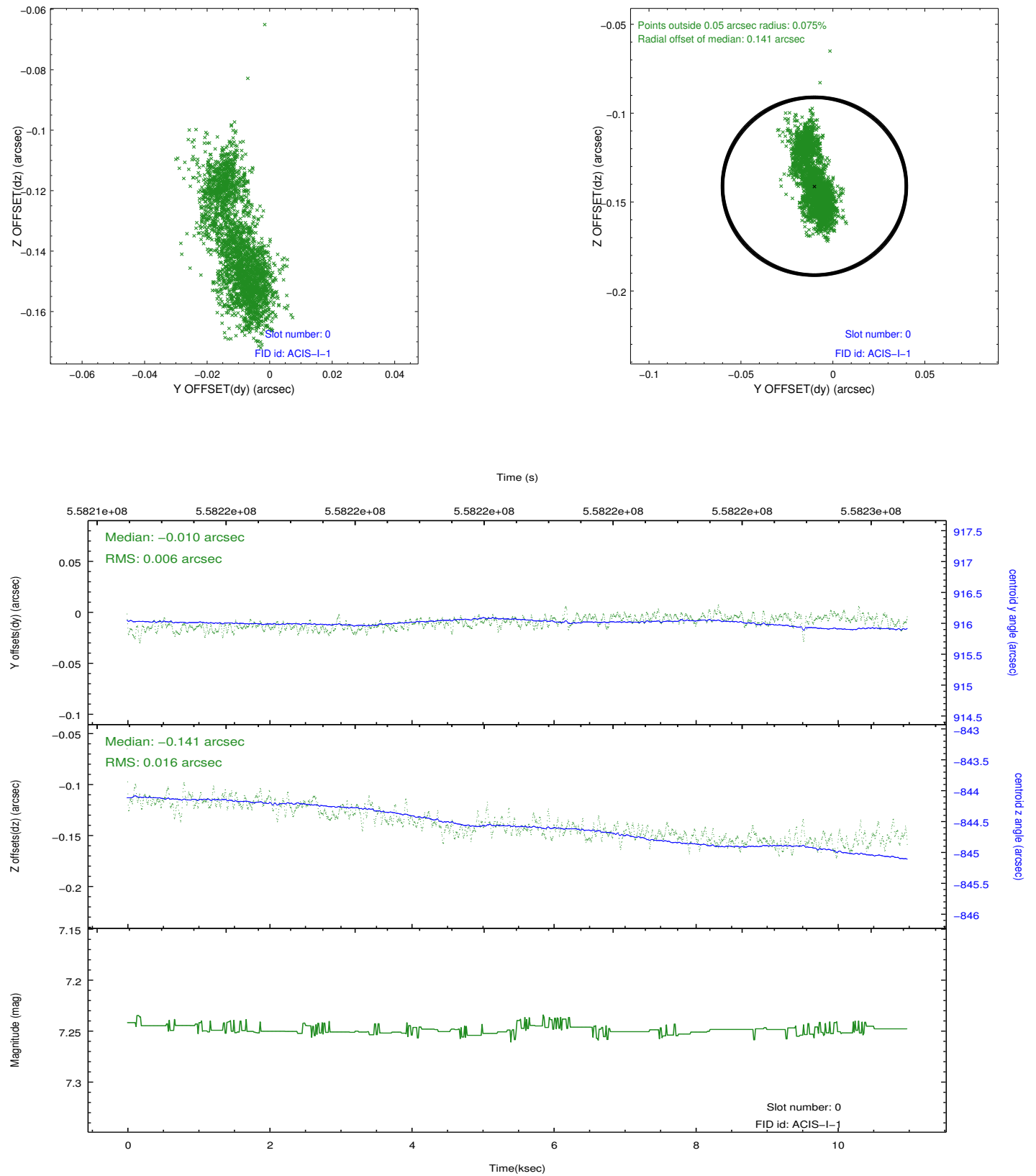


2.4.5 Slot 7

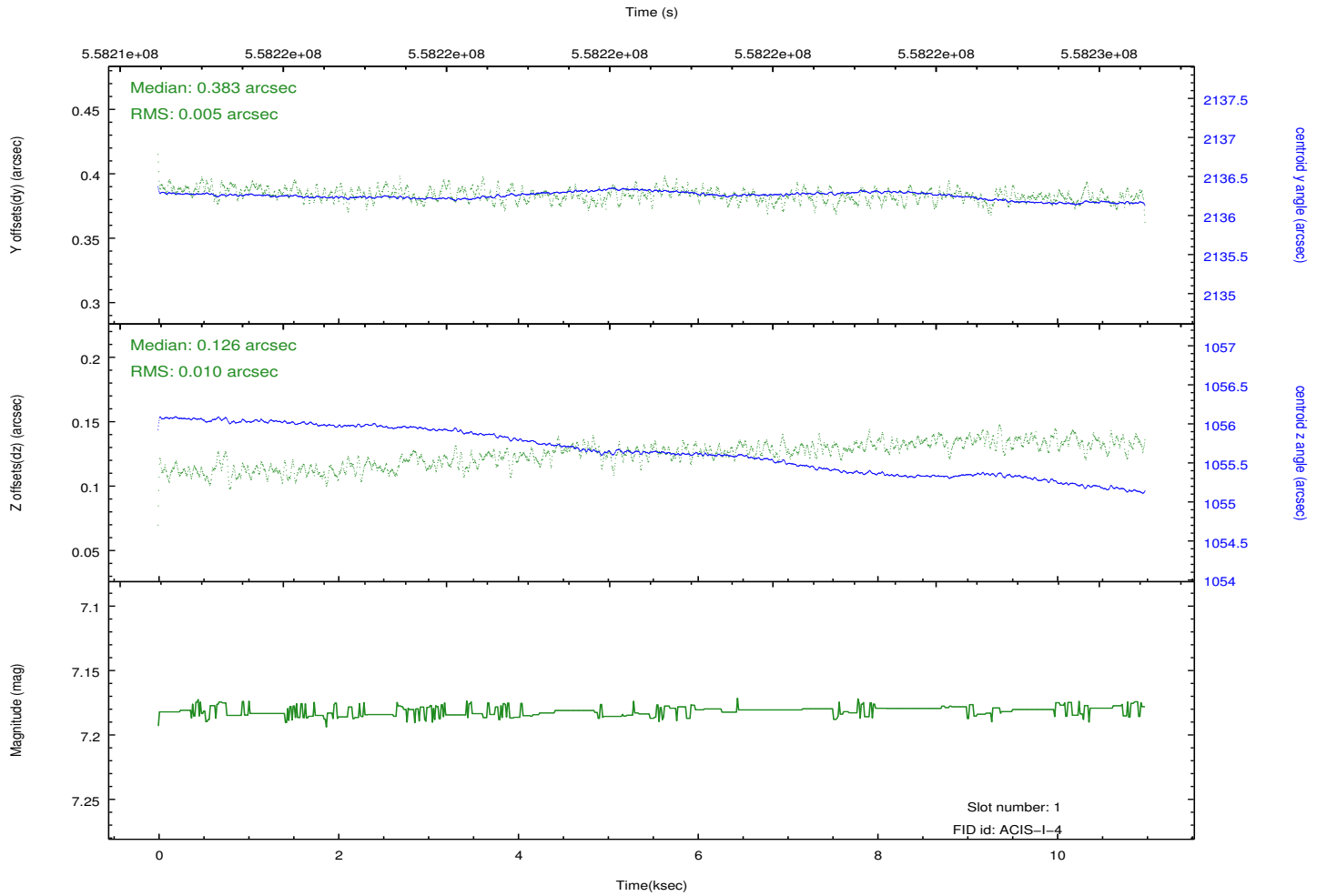
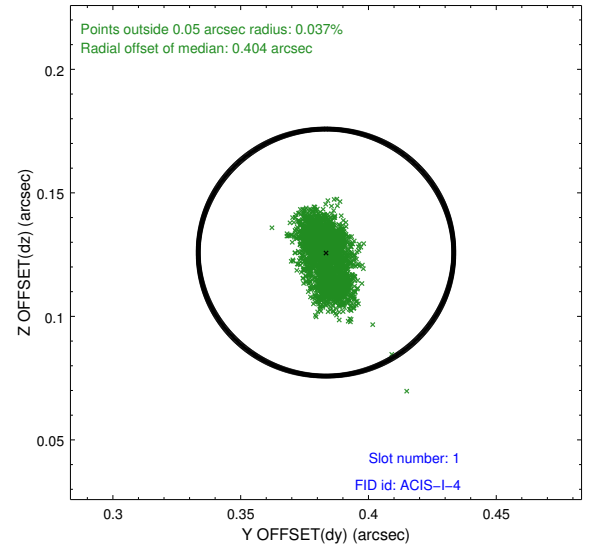
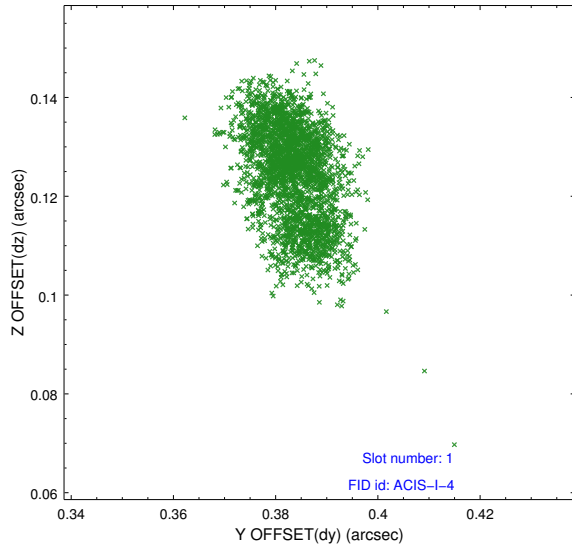


2.5 FID Slots

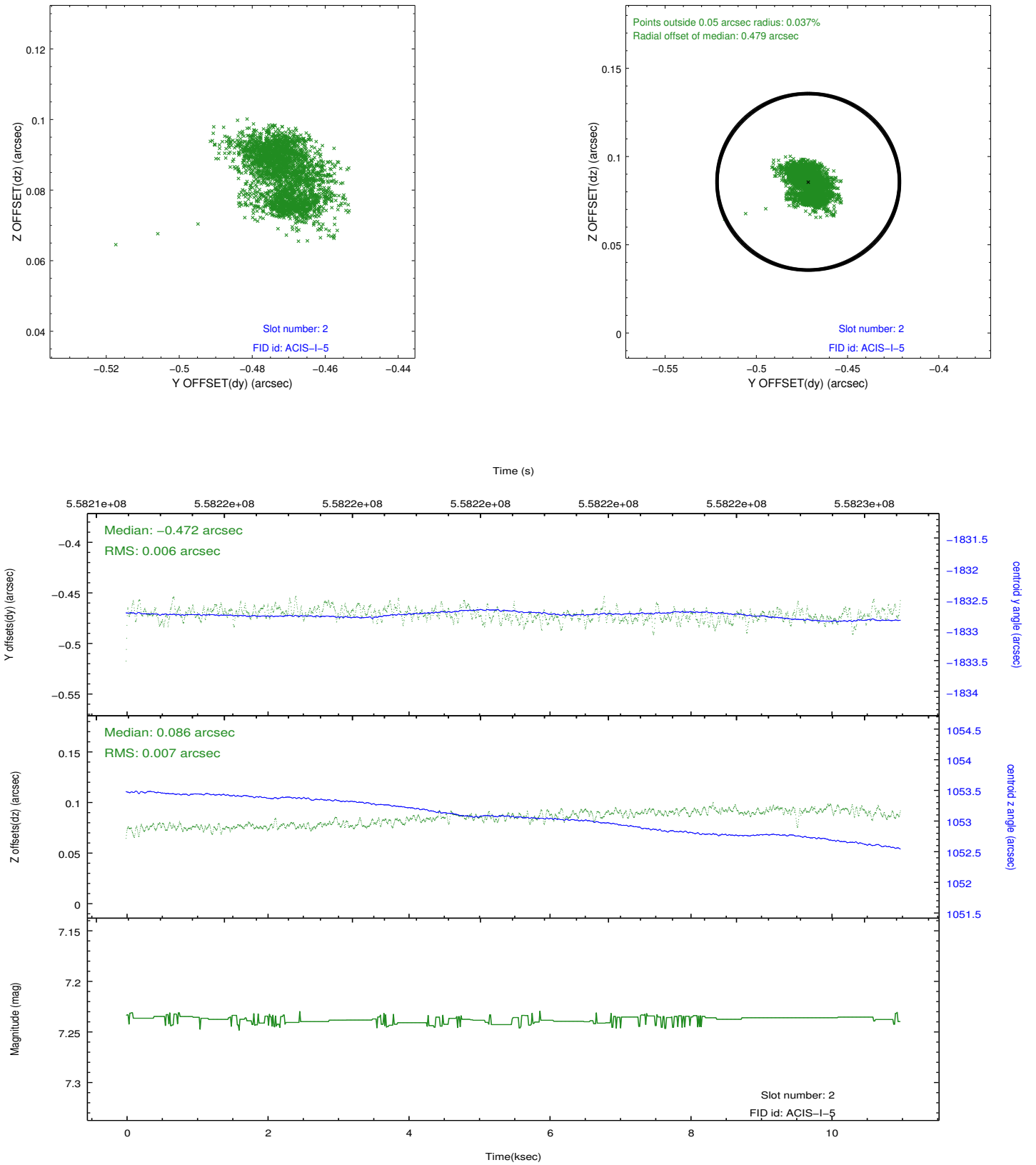
2.5.1 Slot 0



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)	2015.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9611657067537

A.2 Comments