

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16151 - L2 Version 1
Chandra X-Ray Center

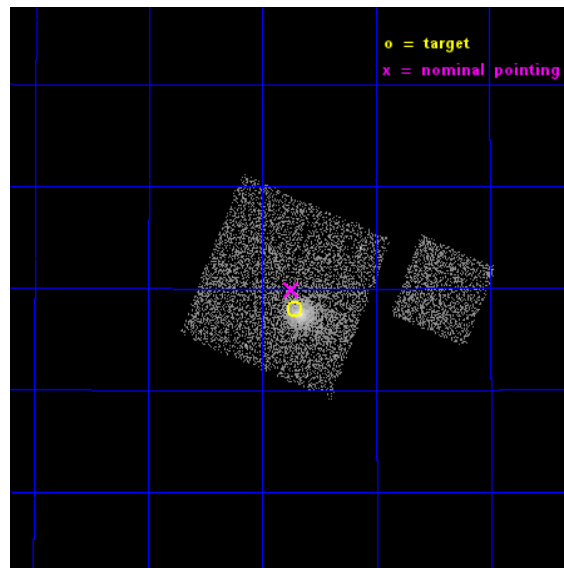
L2 Processing Date : Mar 7 2015

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1 Front

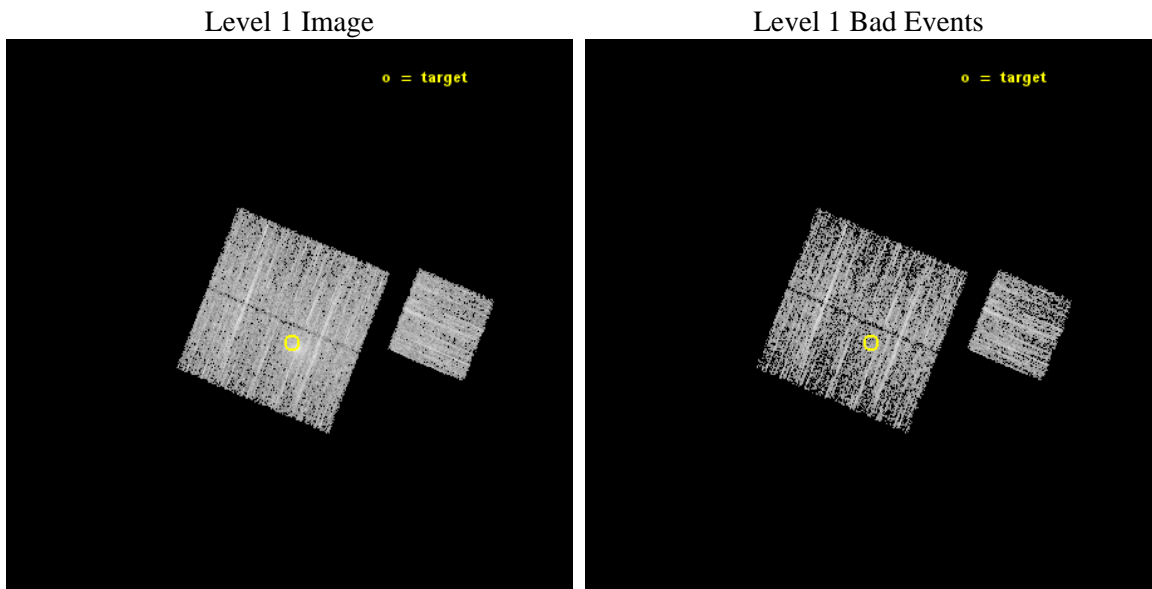
seq_num	801404	Sequence number
obs_id	16151	Observation id
title	Setting the Scale: Supporting precision cluster cosmology with Chandra observations of low-z lensing clusters	Proposal title
observer	Dr Adam Mantz	Principal investigator
object	A1902	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.427917	Observer's specified target RA [deg]
dec_targ	37.299	Observer's specified target Dec [deg]
ra_nom	215.43619632105	Nominal RA [deg]
dec_nom	37.331617814798	Nominal Dec [deg]
roll_nom	112.20353111657	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5121.200039506	Sum of GTIs [s]
livetime	5054.2877908172	Livetime [s]
ontime0	5121.200039506	Sum of GTIs [s]
ontime1	5121.200039506	Sum of GTIs [s]
ontime2	5121.200039506	Sum of GTIs [s]
ontime3	5121.200039506	Sum of GTIs [s]
ontime6	5121.200039506	Sum of GTIs [s]
l2events	13435	Number of level 2 events



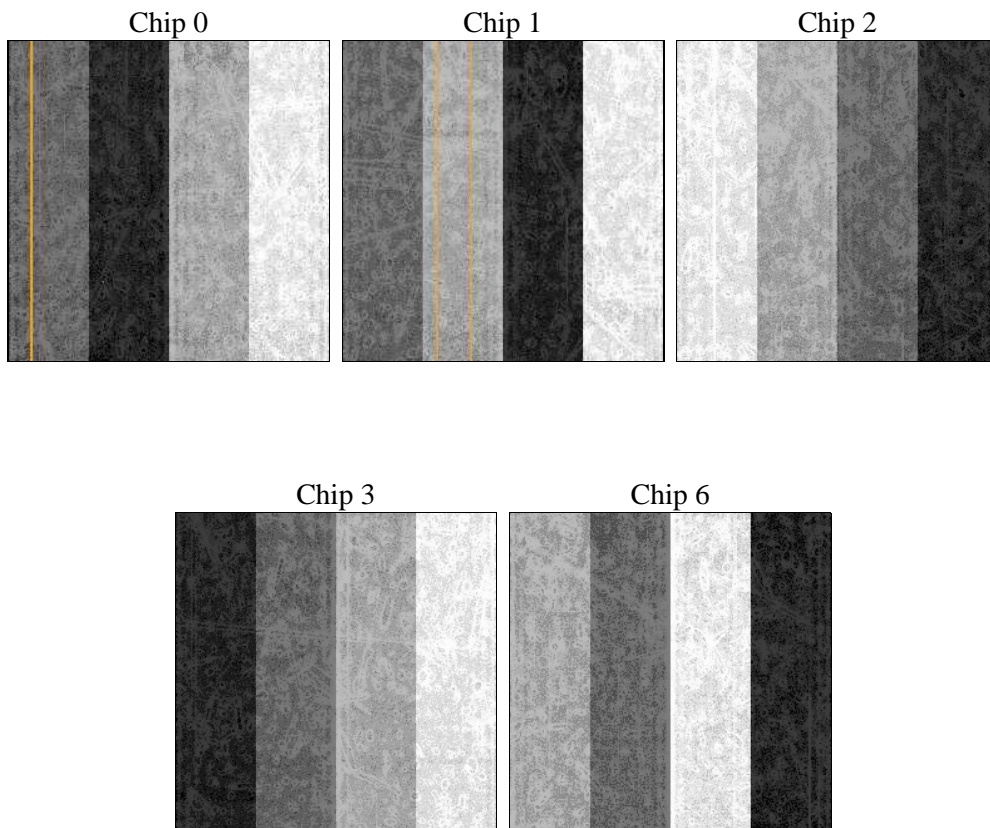
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	5121.200039506	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	5121.200039506	Sum of GTIs [s]
date	2015-03-07T15:00:44	Date and time of file creation	ontime1	5121.200039506	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5121.200039506	Sum of GTIs [s]
			ontime3	5121.200039506	Sum of GTIs [s]
			ontime6	5121.200039506	Sum of GTIs [s]
			l1events	109421	Number of level 1 events

2.1.4 Events

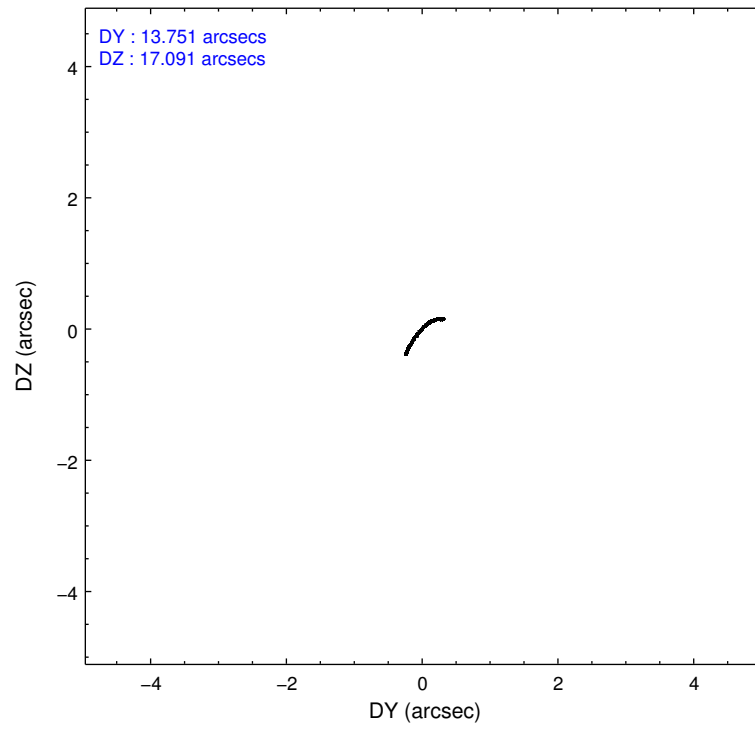
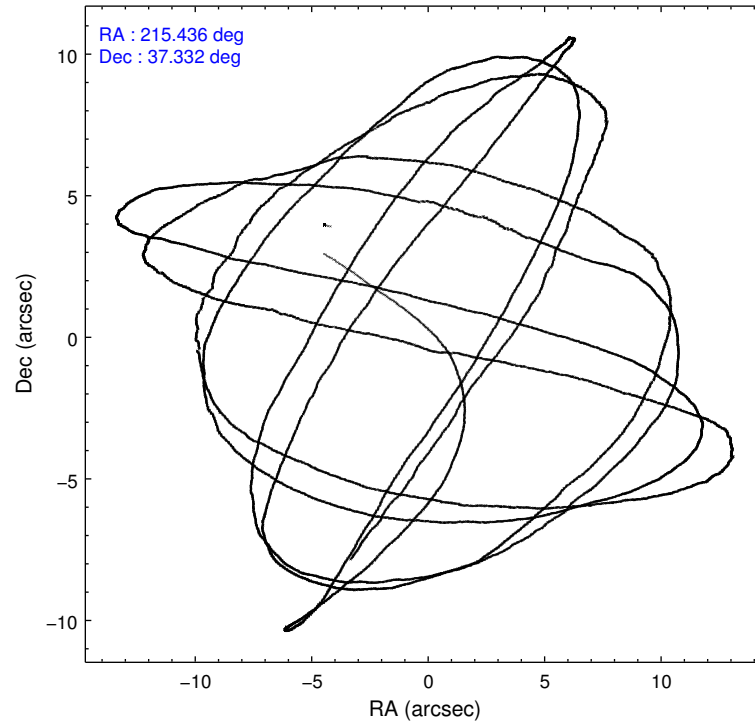
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	20328	20576	22548	23078	22891
rejected events	17933	18001	20107	17481	20455
rejected %	88%	87%	89%	75%	89%

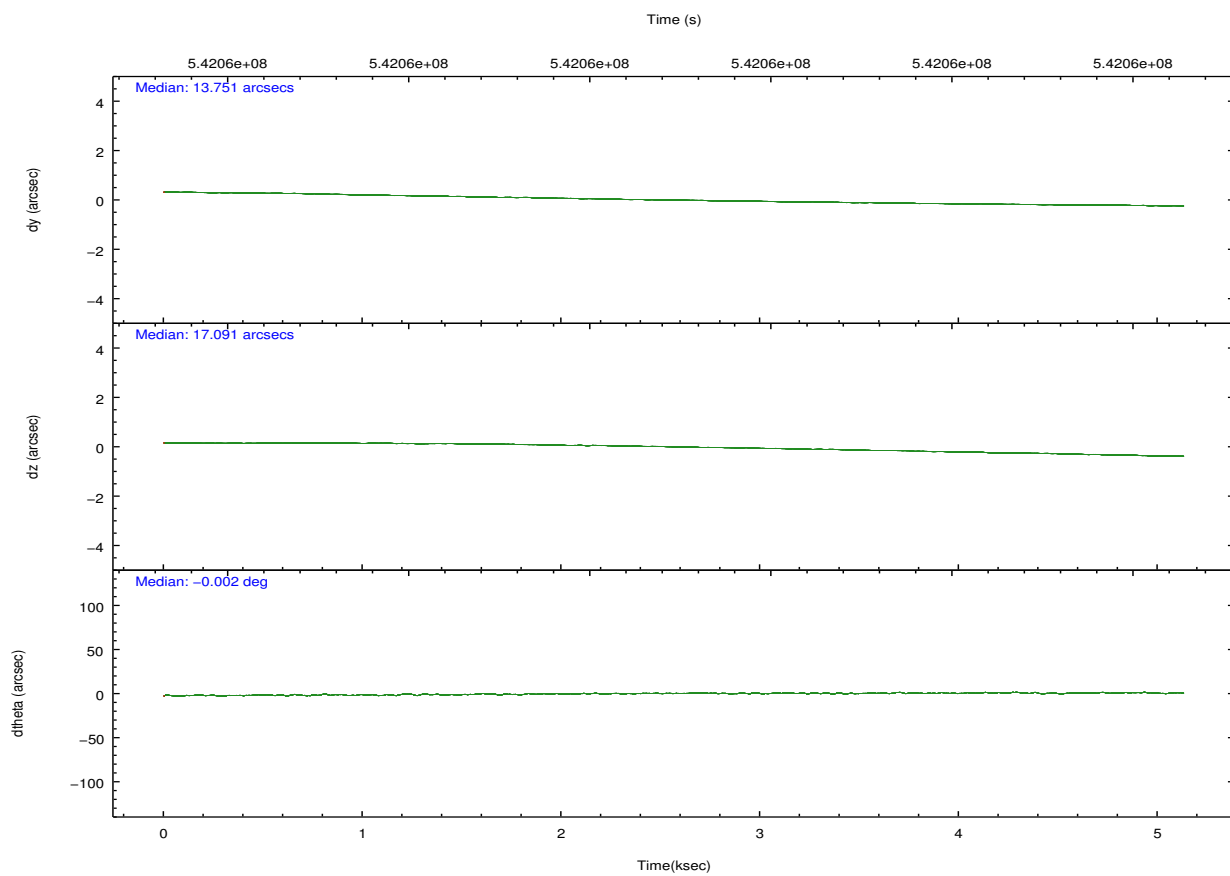
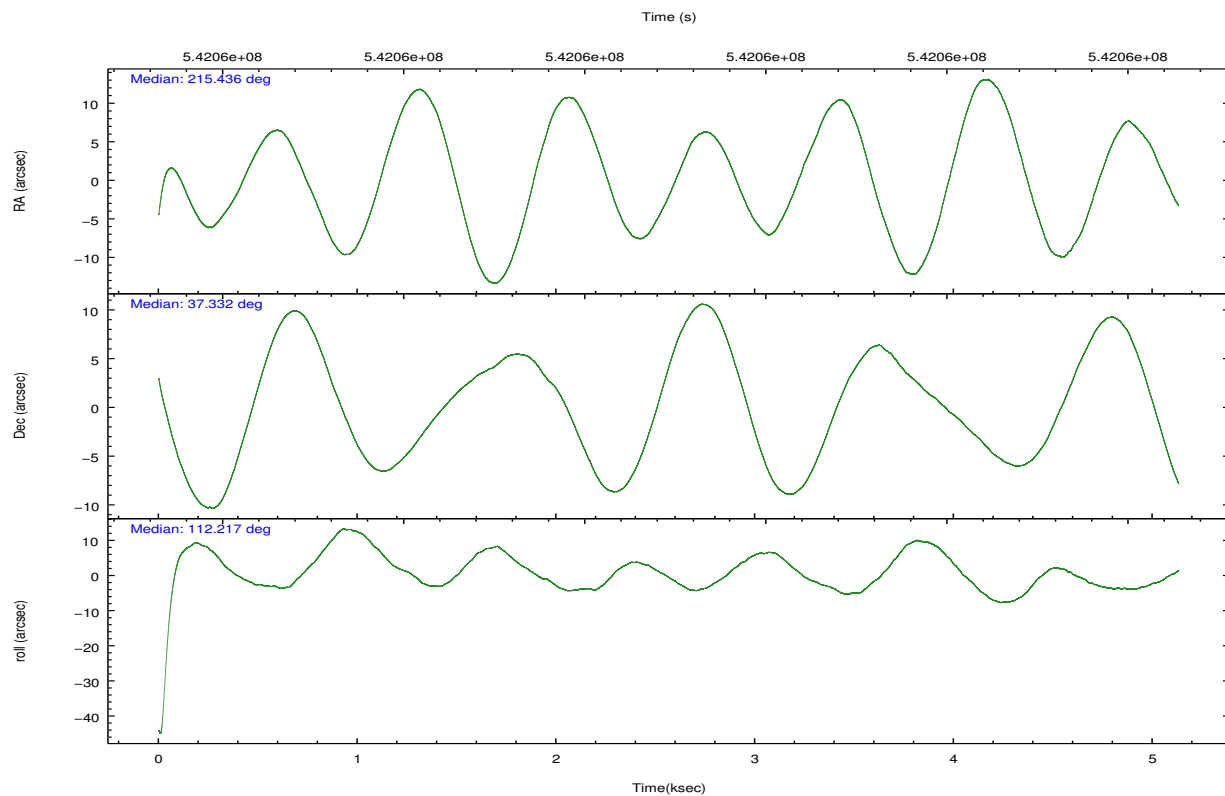
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	867	1003	1060	3597	878
	4%	4%	4%	15%	3%
grade 1 events	10	11	15	31	11
	0%	0%	0%	0%	0%
grade 2 events	600	586	540	824	555
	2%	2%	2%	3%	2%
grade 3 events	244	253	230	329	224
	1%	1%	1%	1%	0%
grade 4 events	230	257	215	323	252
	1%	1%	0%	1%	1%
grade 5 events	638	777	593	787	735
	3%	3%	2%	3%	3%
grade 6 events	455	480	397	528	529
	2%	2%	1%	2%	2%
grade 7 events	17284	17209	19498	16659	19707
	85%	83%	86%	72%	86%

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	215.463727	215.4361963210547	CCD I2 on	Y	Y
[deg] Pointing Dec	37.314813	37.33161781479764	CCD I3 on	Y	Y
[deg] Pointing Roll	111.978290	112.2035311165702	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)	542060038.184000	542058799.75237	CCD S5 on	N	N
Observation start date	2015-03-06T20:12:51	2015-03-06T19:53:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	542065038.184000	542066369.89029	On-chip summing requested	N	N
Observation end date	2015-03-06T21:36:11	2015-03-06T21:59:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



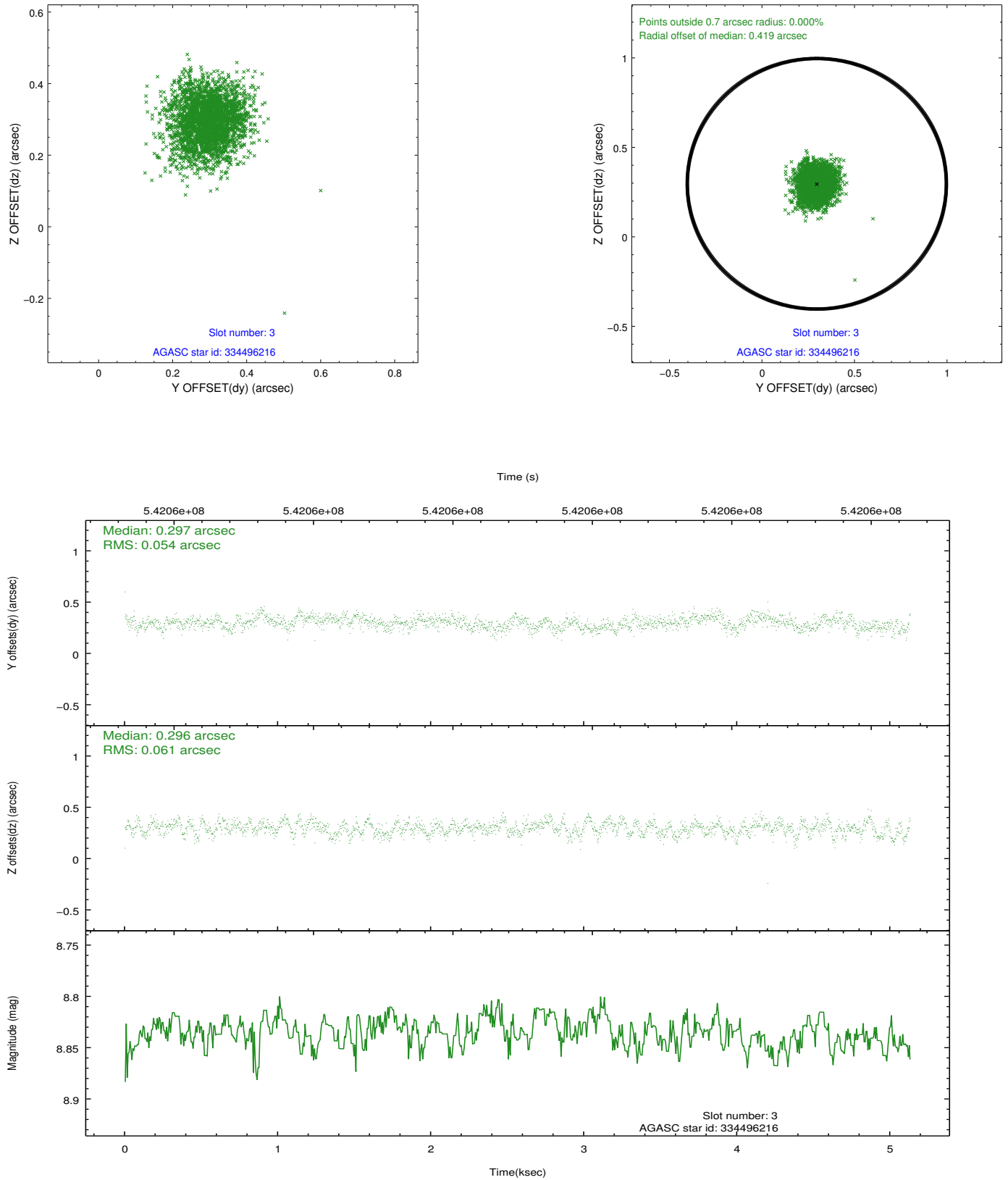


Slot Statistics

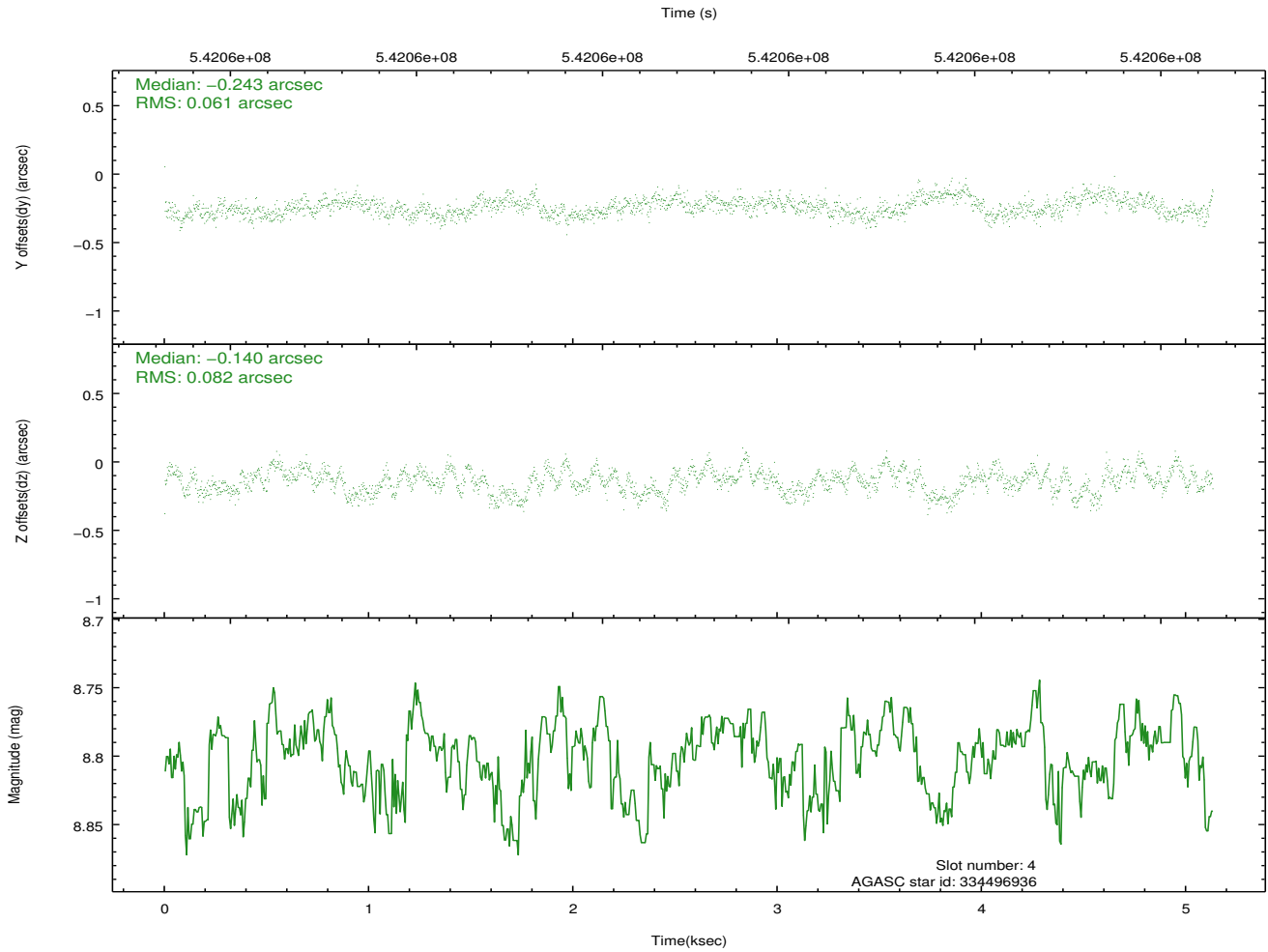
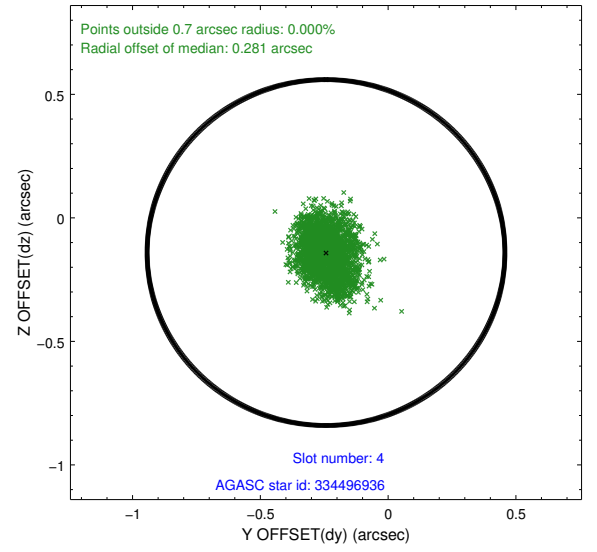
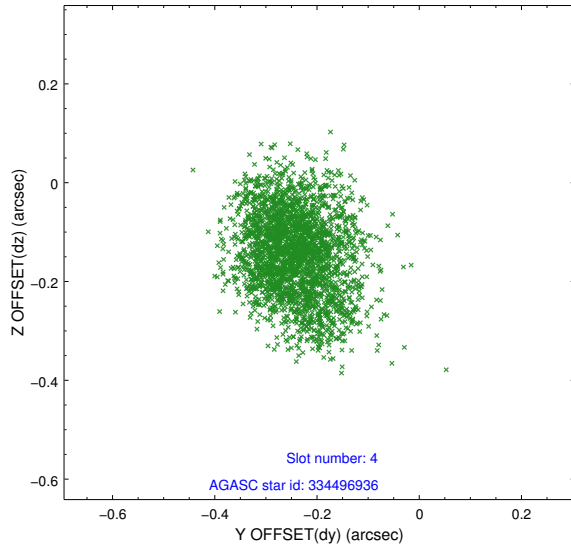
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	1252	0.099	-0.065	0.023	0.034	0.000000	0.000000	925.82	-840.77
1	FID		ACIS-I-5	7.25	1252	-0.270	0.081	0.008	0.012	0.000000	0.000000	-1822.00	1056.28
2	FID		ACIS-I-6	7.25	1252	0.081	0.051	0.019	0.027	0.000000	0.000000	390.07	1702.08
3	GUIDE	used	334496216	8.84	2504	0.297	0.296	0.086	0.138	215.852753	36.859565	-1936.38	-426.05
4	GUIDE	used	334496936	8.80	2504	-0.243	-0.140	0.110	0.176	215.286913	37.401026	477.45	353.93
5	GUIDE	used	334497512	9.63	2501	0.020	-0.302	0.155	0.238	215.621392	36.908672	-1524.77	126.63
6	GUIDE	used	334498120	9.70	2504	-0.215	0.156	0.129	0.220	215.492635	36.701909	-2077.51	748.95
7	GUIDE	used	334498696	7.59	2503	0.143	-0.014	0.109	0.158	215.863981	37.206551	-787.85	-917.93

2.4 Star Slots

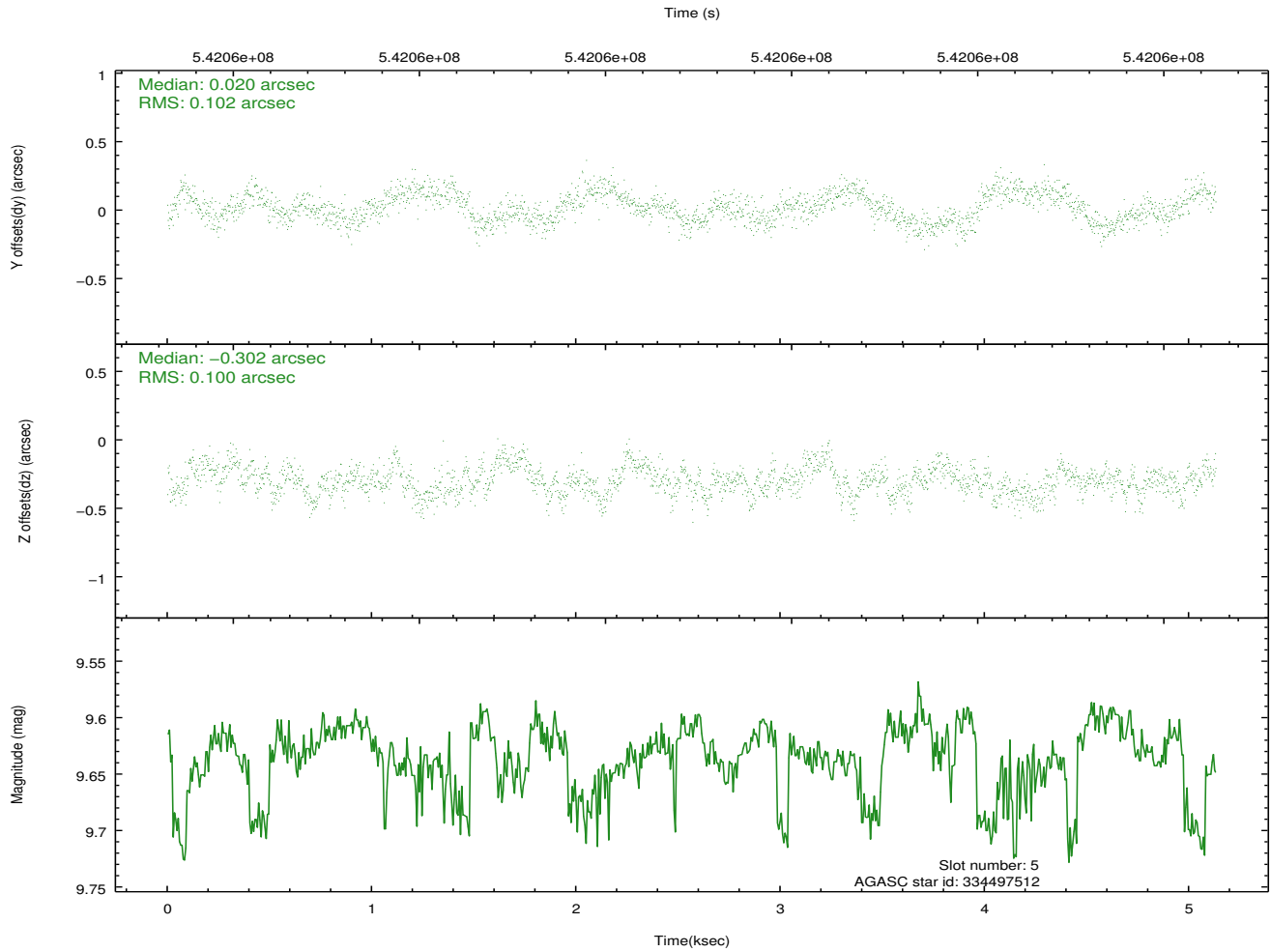
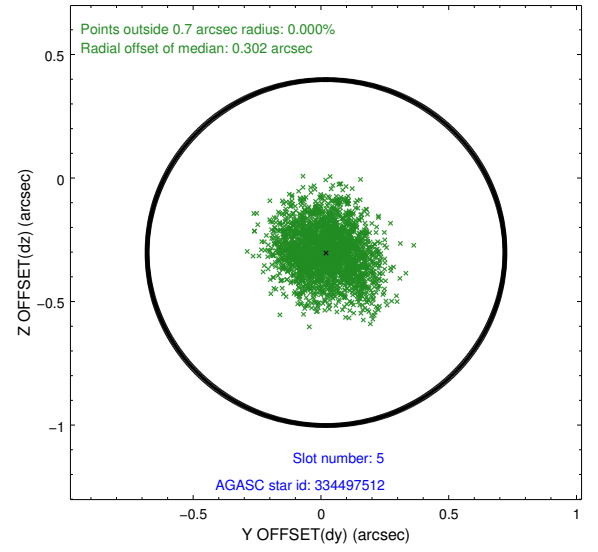
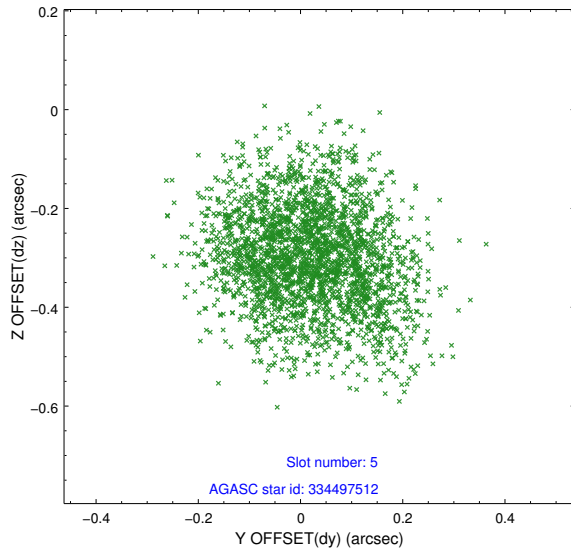
2.4.1 Slot 3



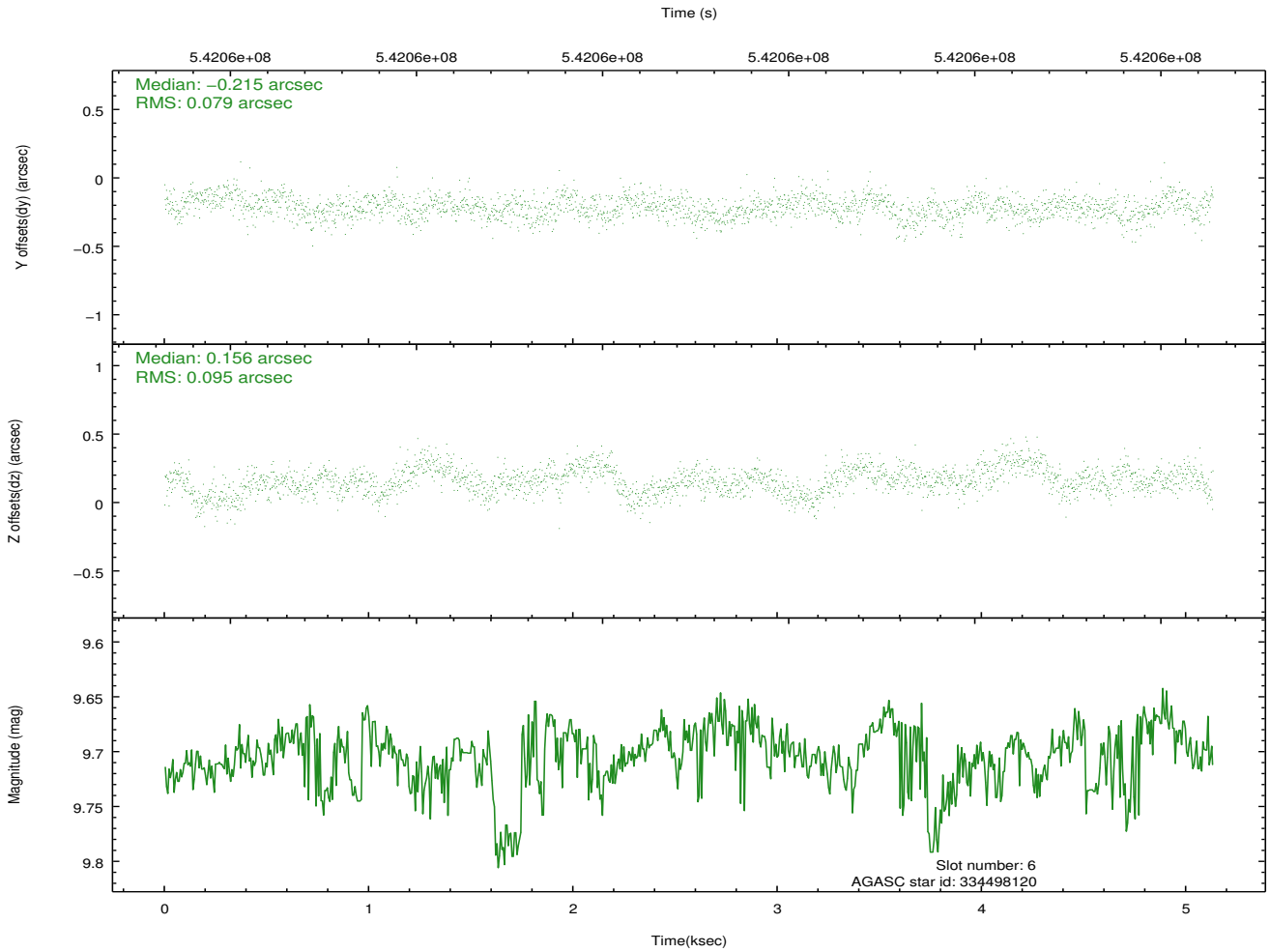
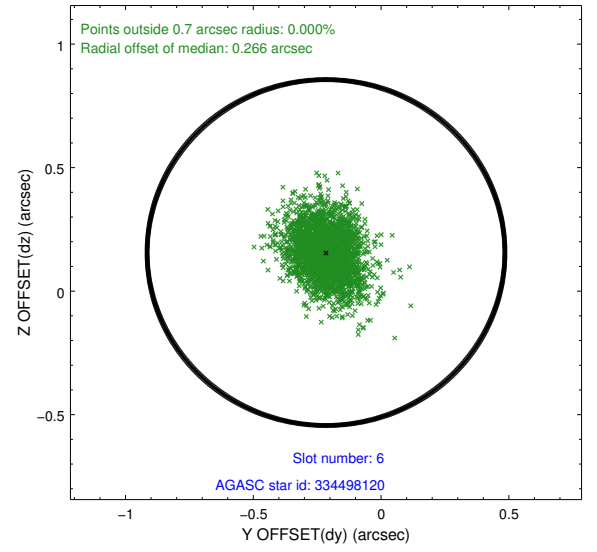
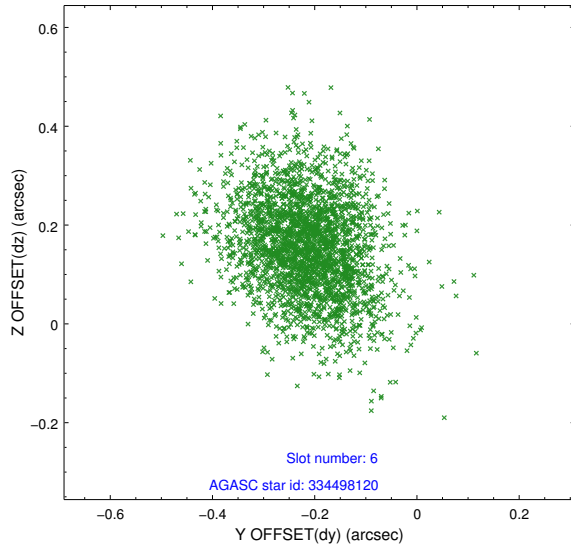
2.4.2 Slot 4



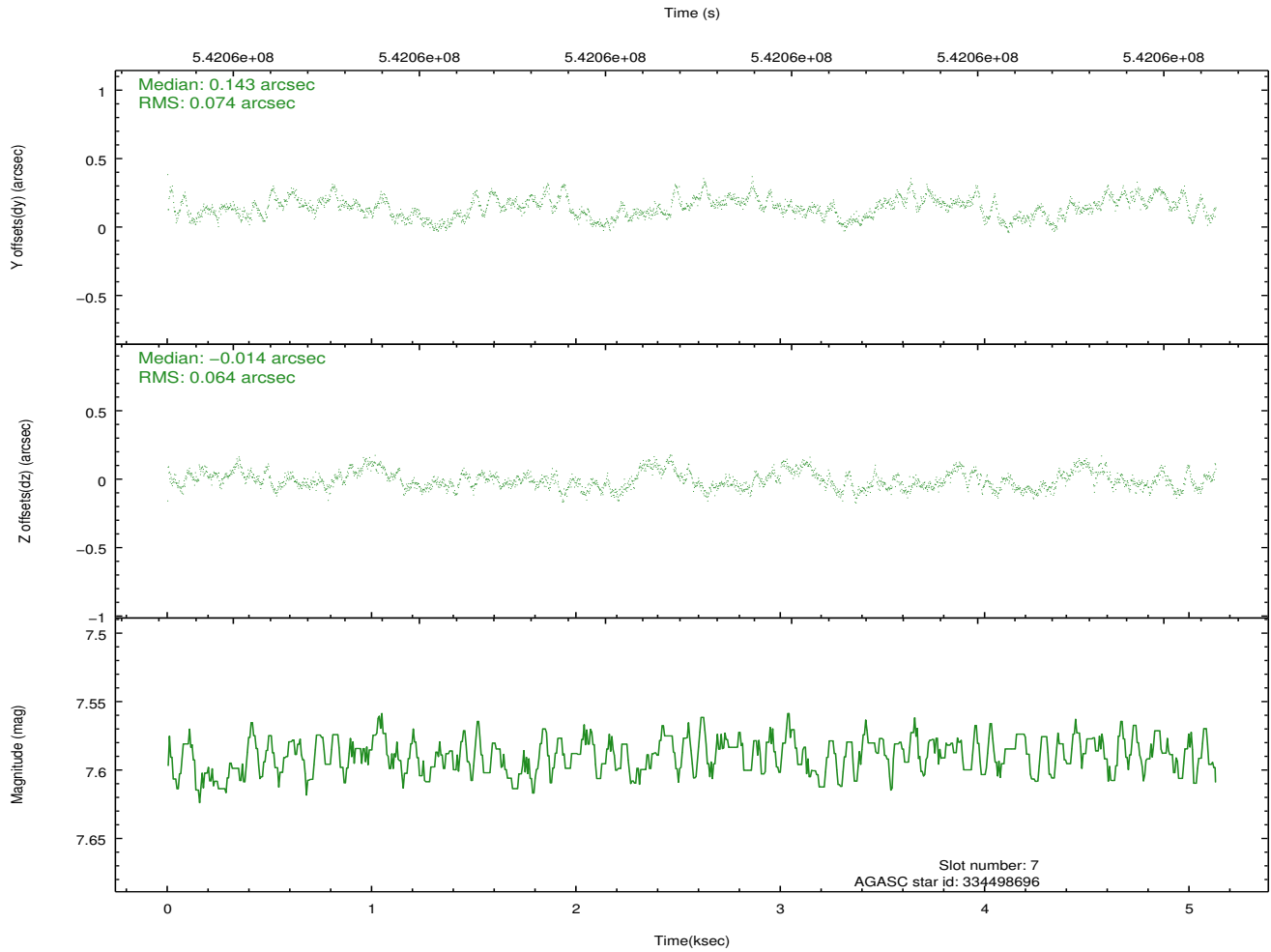
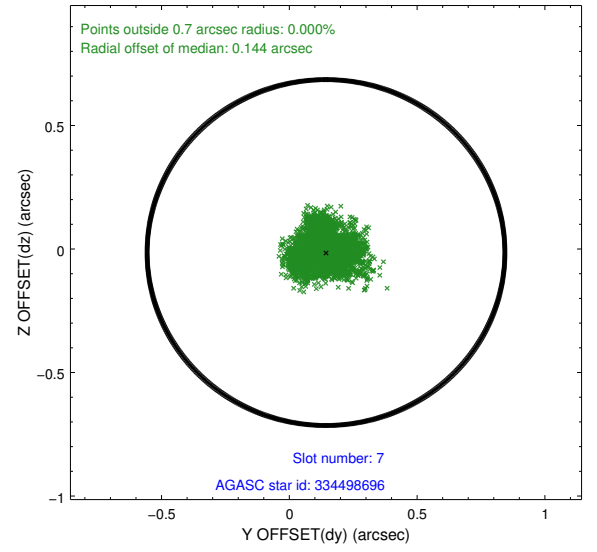
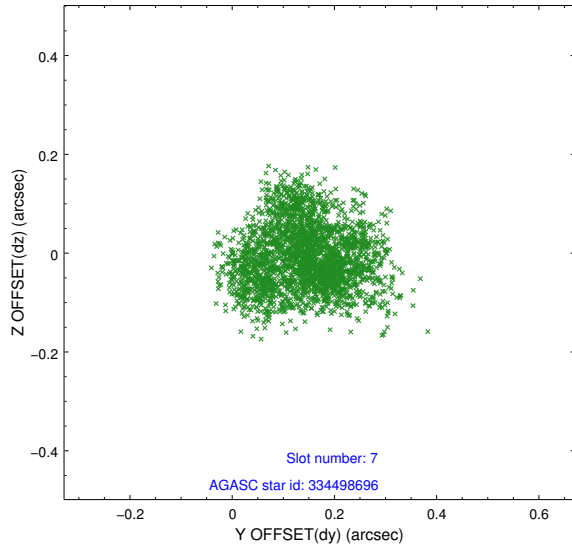
2.4.3 Slot 5



2.4.4 Slot 6

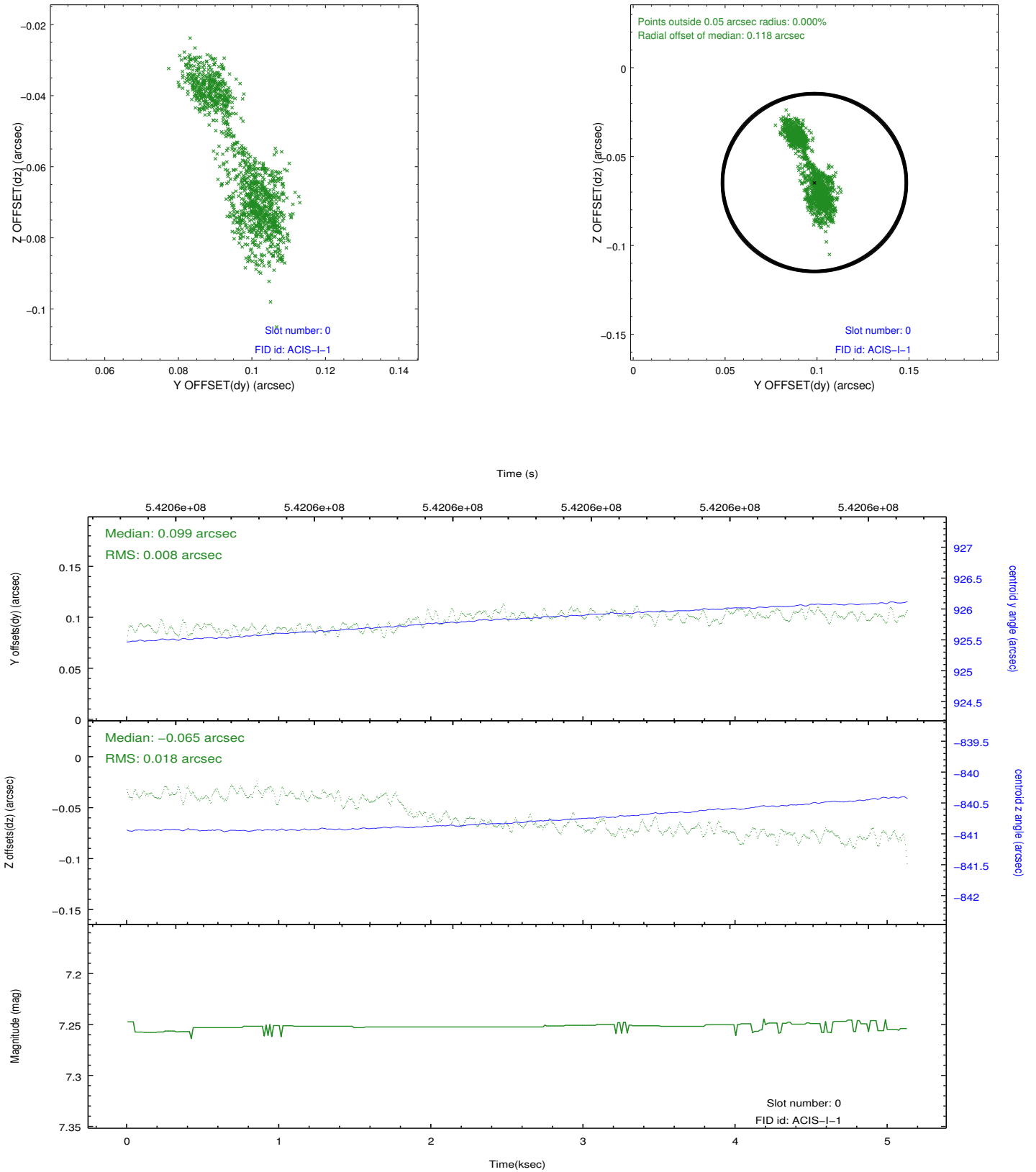


2.4.5 Slot 7

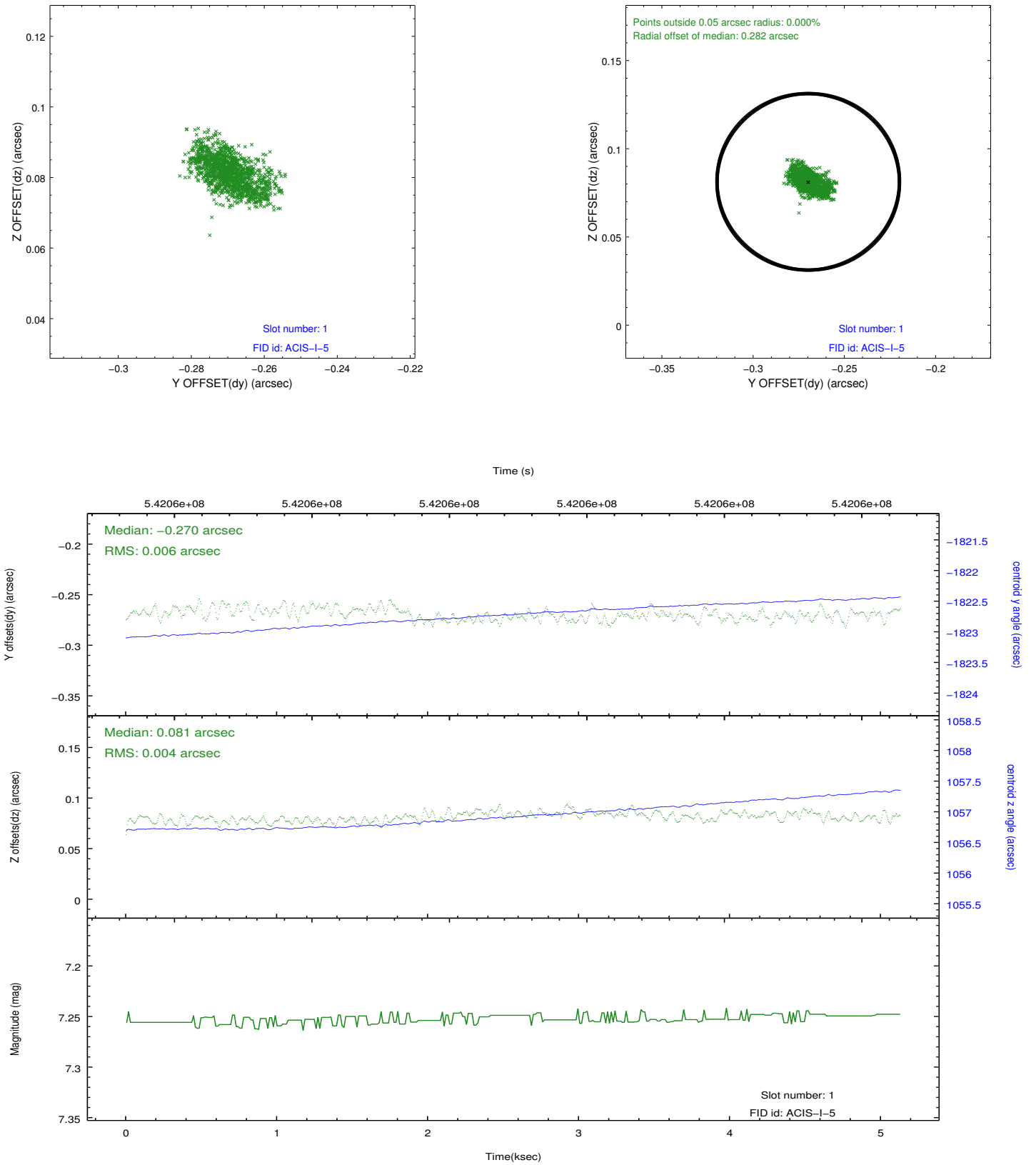


2.5 FID Slots

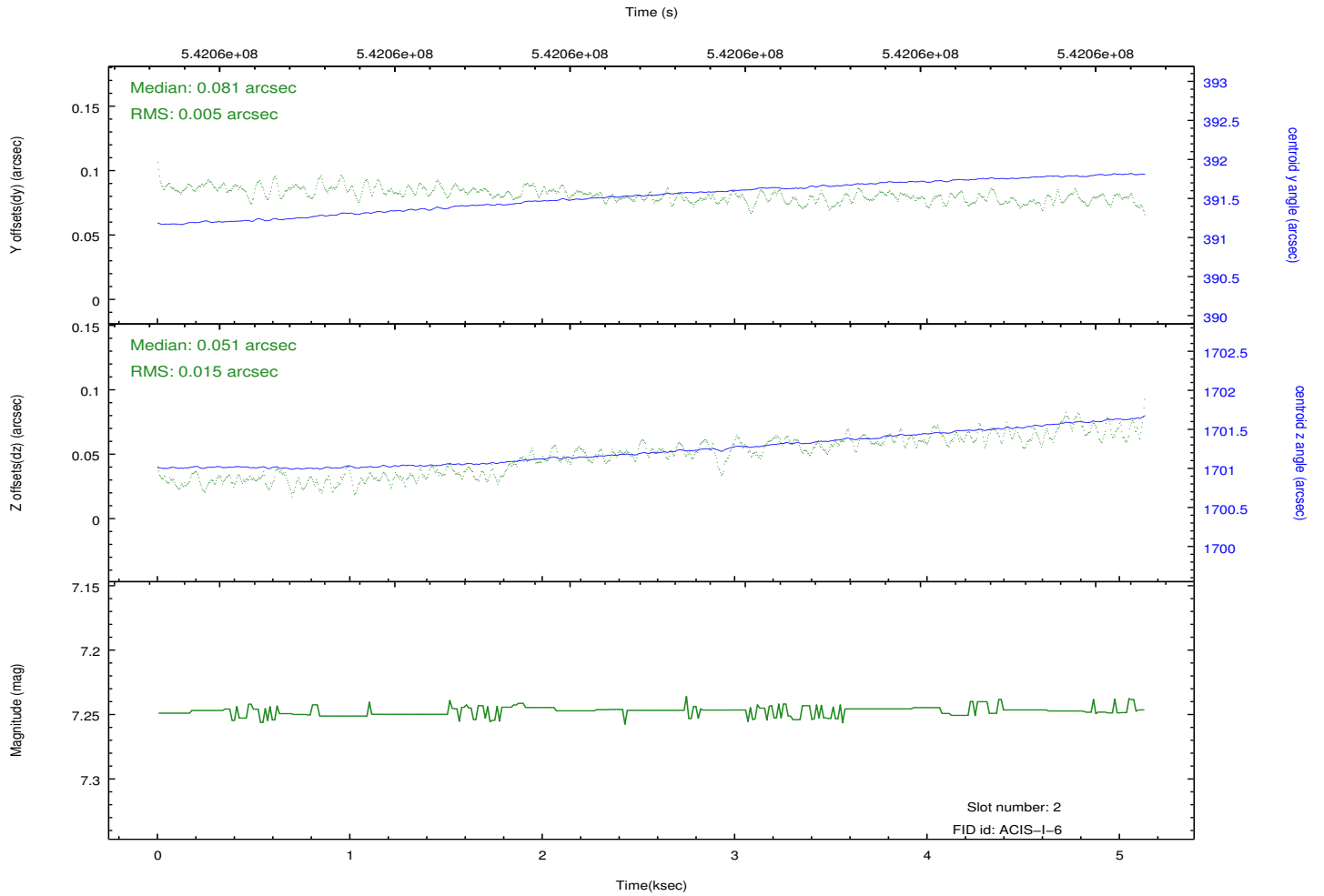
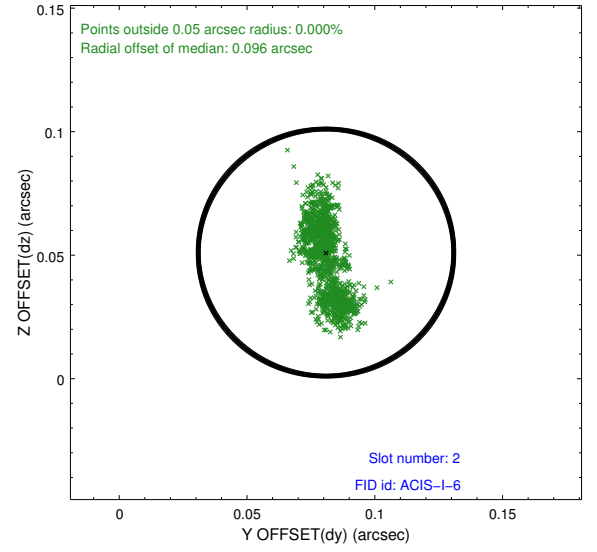
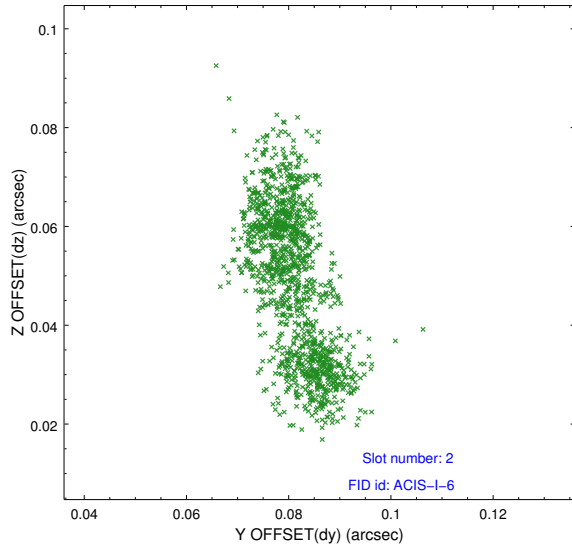
2.5.1 Slot 0



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)	2015.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.121200039506

A.2 Comments