

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18628 - L2 Version 1
Chandra X-Ray Center

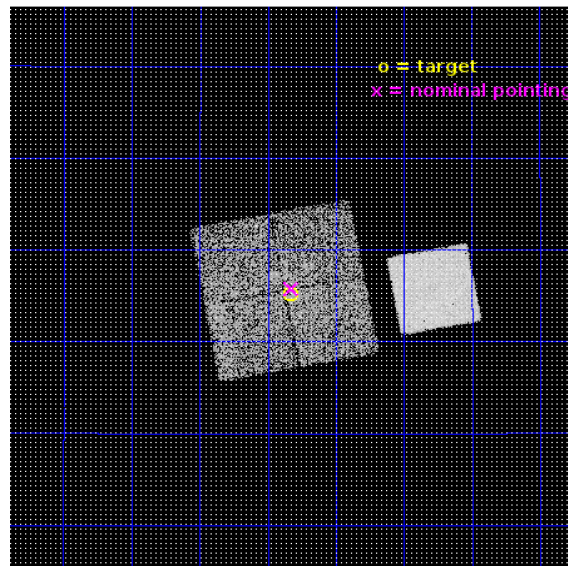
L2 Processing Date : Sep 11 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

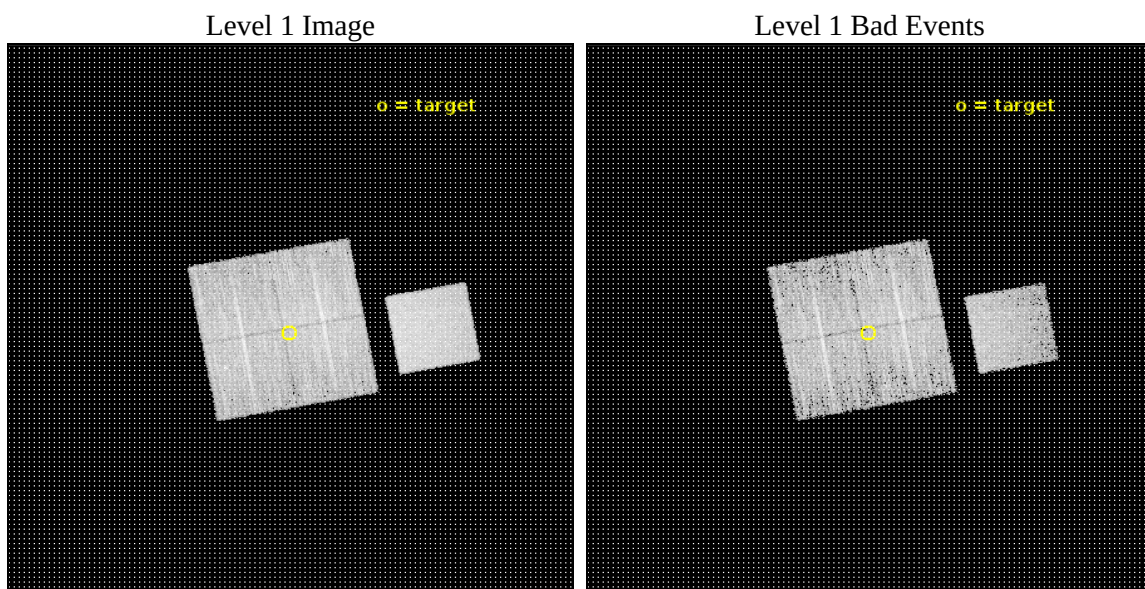
seq_num	801636	Sequence number
obs_id	18628	Observation id
title	Lensing Calibration of the Evolution of Cluster Scaling Relations for eROSITA	Proposal title
observer	Peter Predehl	Principal investigator
object	CODEX 43403	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	122.58375	Observer's specified target RA [deg]
dec_targ	18.253722	Observer's specified target Dec [deg]
ra_nom	122.58155740621	Nominal RA [deg]
dec_nom	18.262779132623	Nominal Dec [deg]
roll_nom	79.45210888956	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7768.5590596199	Sum of GTIs [s]
livetime	7667.057116376	Livetime [s]
ontime0	7771.7000598907	Sum of GTIs [s]
ontime1	7768.5590296984	Sum of GTIs [s]
ontime2	7771.7000598907	Sum of GTIs [s]
ontime3	7768.5590596199	Sum of GTIs [s]
ontime7	7771.7000598907	Sum of GTIs [s]
l2events	46790	Number of level 2 events



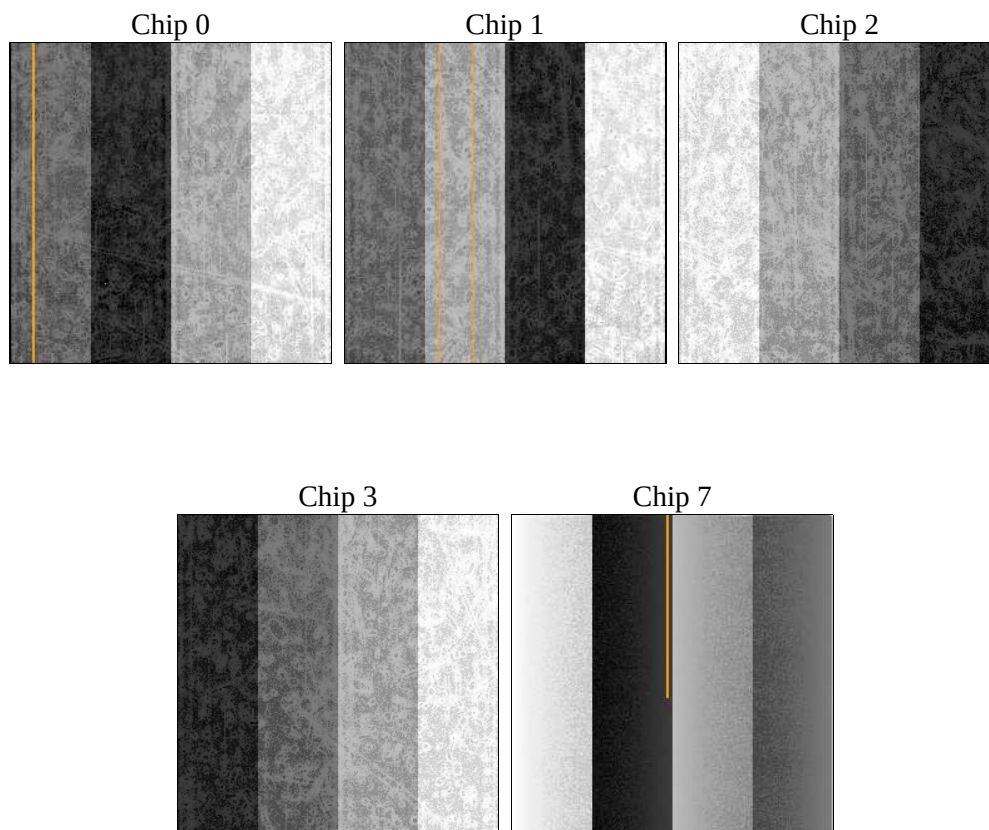
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	7768.5590596199	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	7771.7000598907	Sum of GTIs [s]
date	2016-09-11T06:30:32	Date and time of file creation	ontime1	7768.5590296984	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7771.7000598907	Sum of GTIs [s]
			ontime3	7768.5590596199	Sum of GTIs [s]
			ontime7	7771.7000598907	Sum of GTIs [s]
			l1events	252688	Number of level 1 events

2.1.4 Events

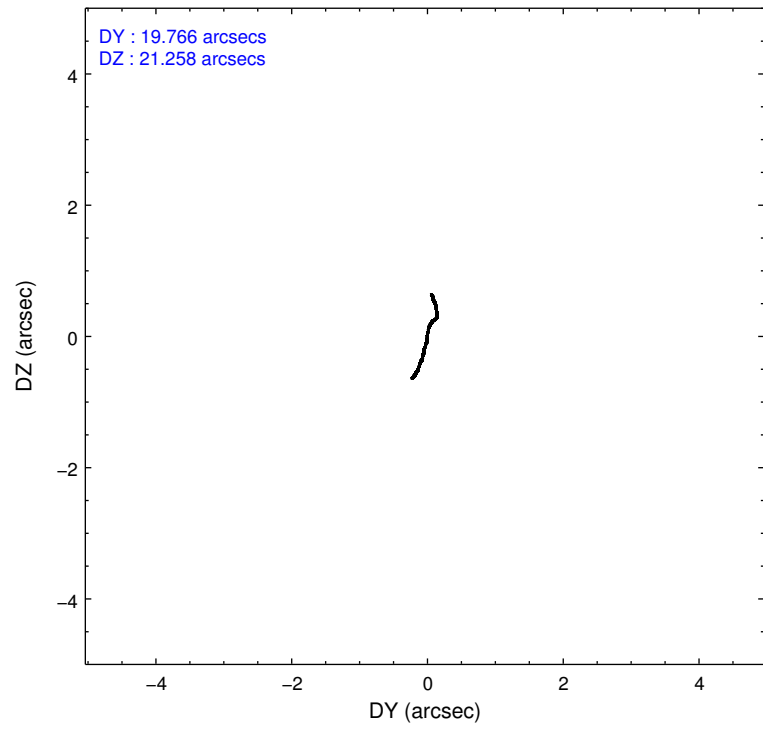
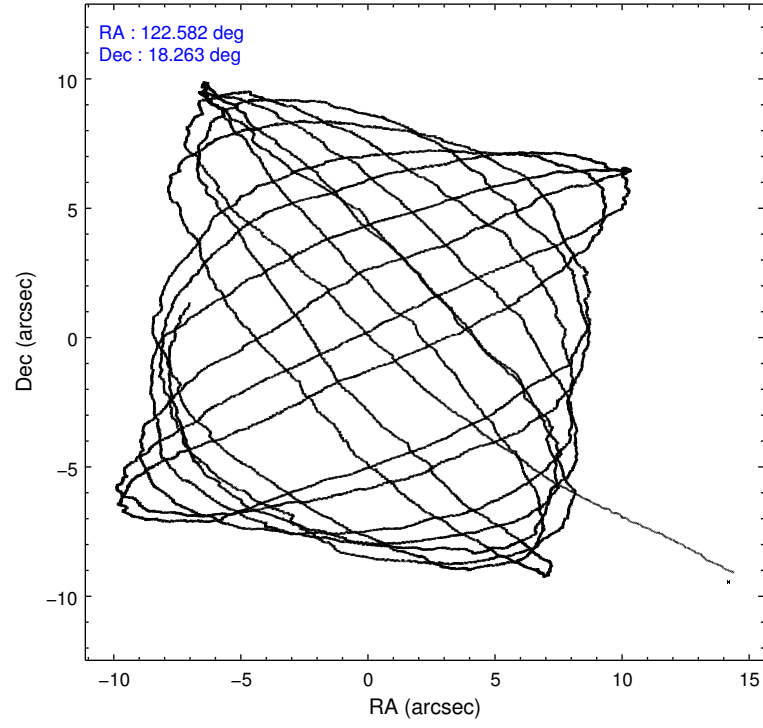
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	44224	44904	50417	47511	65632
rejected events	38301	38572	44811	41949	37370
rejected %	86%	85%	88%	88%	56%

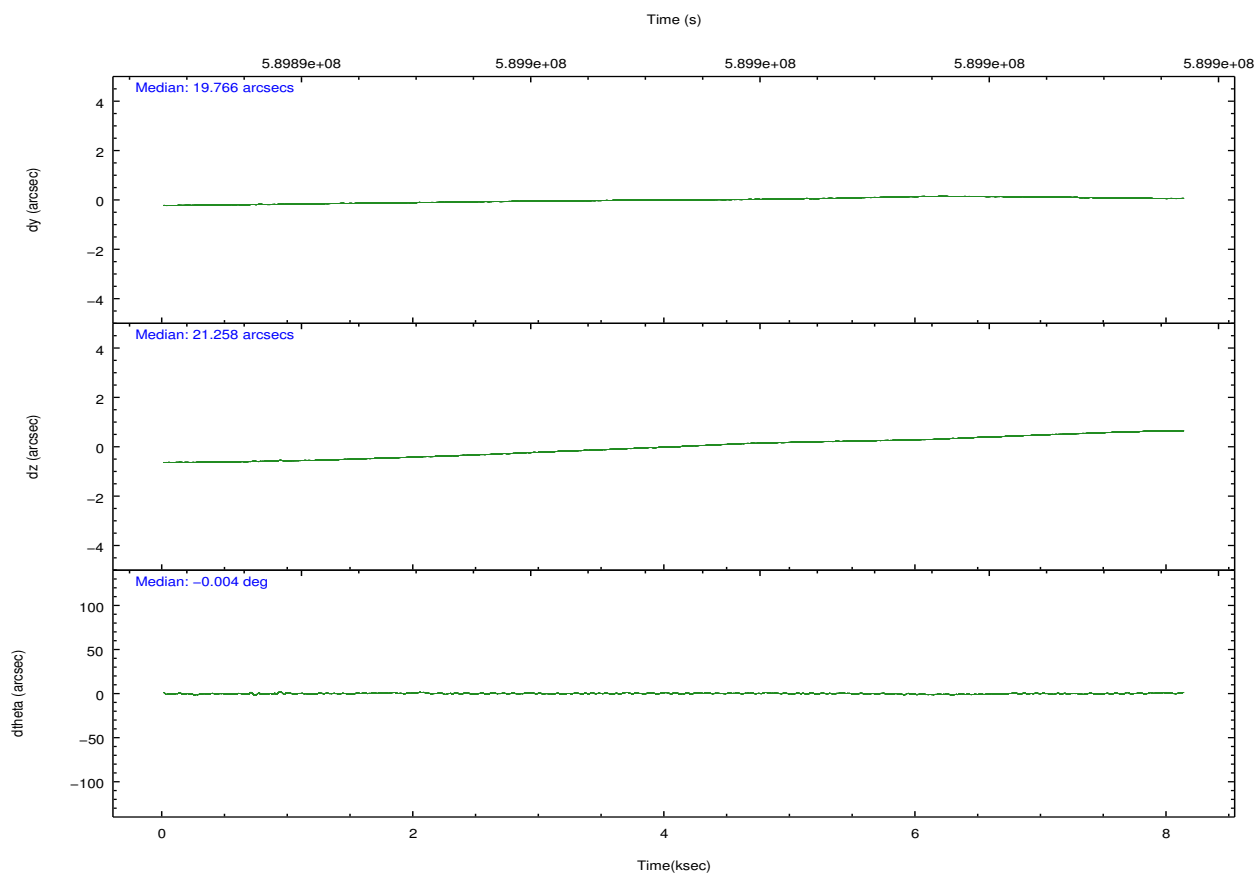
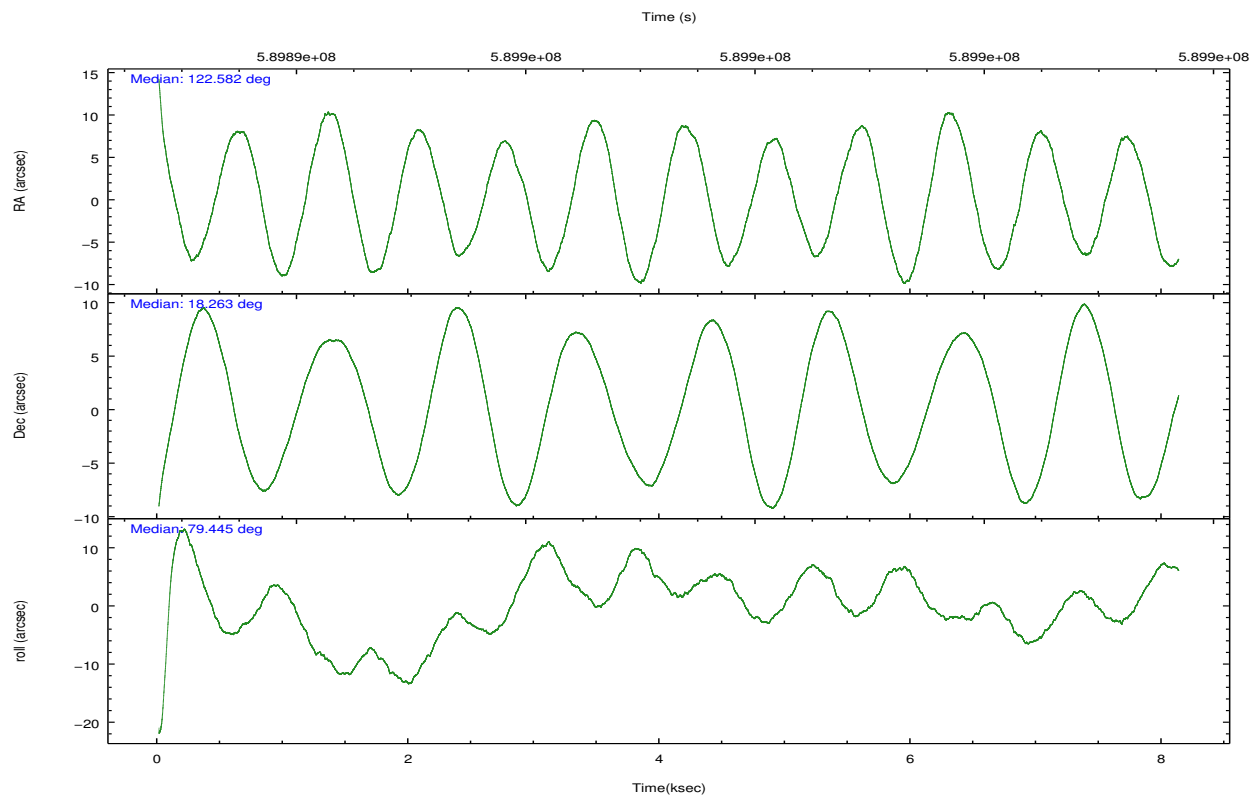
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2053	2318	2018	1997	2469
	4%	5%	4%	4%	3%
grade 1 events	21	21	29	23	92
	0%	0%	0%	0%	0%
grade 2 events	1454	1515	1417	1209	6034
	3%	3%	2%	2%	9%
grade 3 events	606	609	542	598	2321
	1%	1%	1%	1%	3%
grade 4 events	617	569	533	592	2262
	1%	1%	1%	1%	3%
grade 5 events	2256	2280	2045	2480	6603
	5%	5%	4%	5%	10%
grade 6 events	1193	1323	1098	1167	15182
	2%	2%	2%	2%	23%
grade 7 events	36024	36269	42735	39445	30669
	81%	80%	84%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	122.591348	122.581557406211	CCD I2 on	Y	Y
[deg] Pointing Dec	18.236798	18.26277913262295	CCD I3 on	Y	Y
[deg] Pointing Roll	79.240412	79.45210888956008	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	589893325.184000	589892108.6773601	CCD S5 on	N	N
Observation start date	2016-09-10T11:14:17	2016-09-10T10:55:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	589901325.184000	589902132.66544	On-chip summing requested	N	N
Observation end date	2016-09-10T13:27:37	2016-09-10T13:42:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



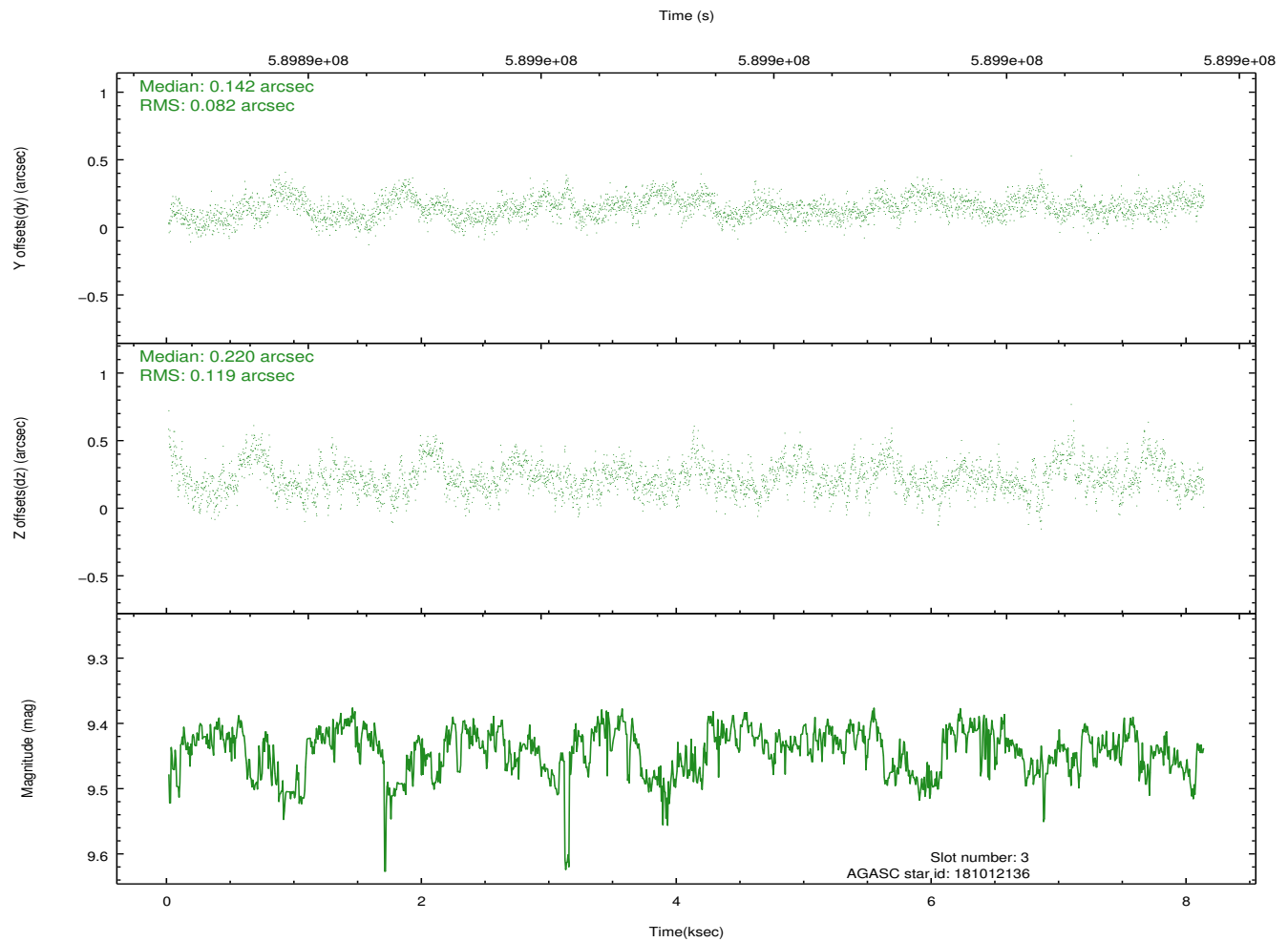
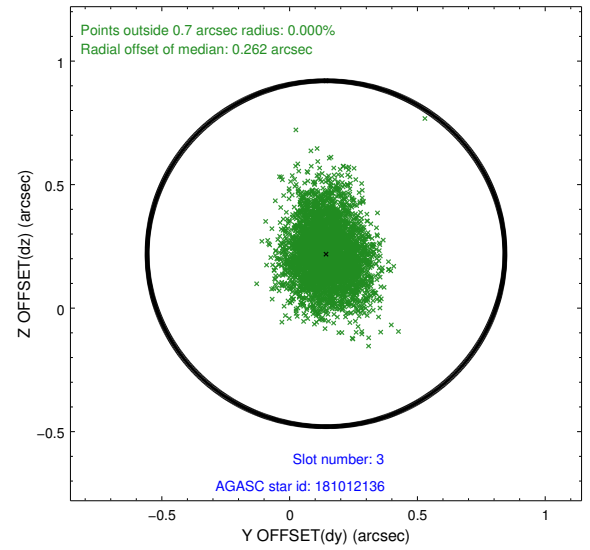
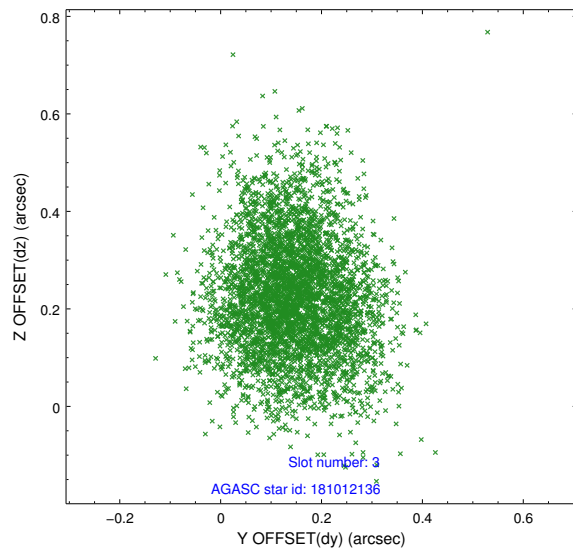


Slot Statistics

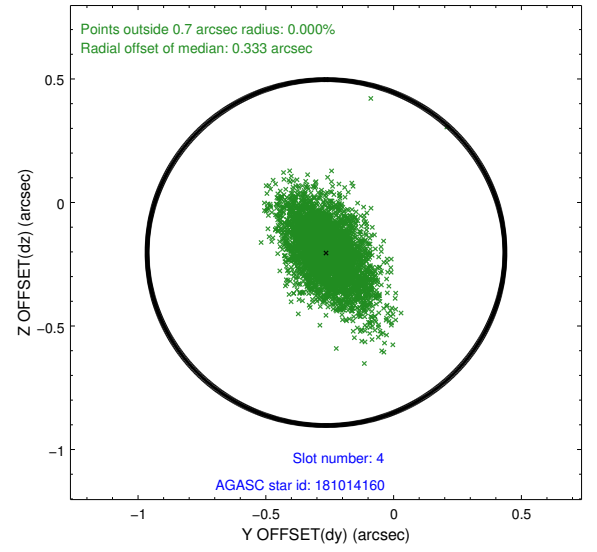
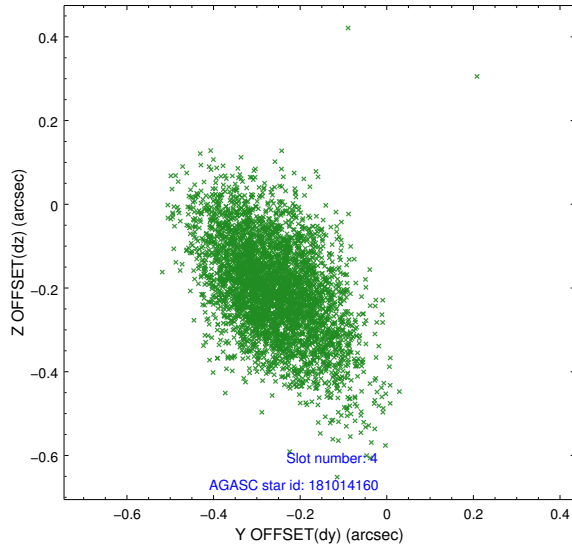
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	1982	0.079	-0.057	0.011	0.018	0.000000	0.000000	919.68	-845.02
1	FID		ACIS-I-5	7.14	1982	-0.377	0.029	0.010	0.018	0.000000	0.000000	-1828.57	1052.11
2	FID		ACIS-I-6	7.15	1982	0.207	0.100	0.016	0.031	0.000000	0.000000	384.51	1697.54
3	GUIDE	used	181012136	9.44	3958	0.142	0.220	0.152	0.252	122.960385	17.810211	-1270.56	-1528.73
4	GUIDE	used	181014160	8.76	3963	-0.265	-0.203	0.151	0.260	123.132786	18.516856	1337.65	-1626.75
5	GUIDE	used	181015552	9.40	3958	0.150	0.213	0.189	0.322	123.190840	18.035257	-326.19	-2150.59
6	GUIDE	used	181016072	8.99	3957	-0.125	-0.678	0.154	0.250	122.010857	17.971717	-1305.74	1774.62
7	GUIDE	used	181019552	8.64	3959	0.084	0.439	0.117	0.189	123.131173	17.625504	-1813.12	-2229.00

2.4 Star Slots

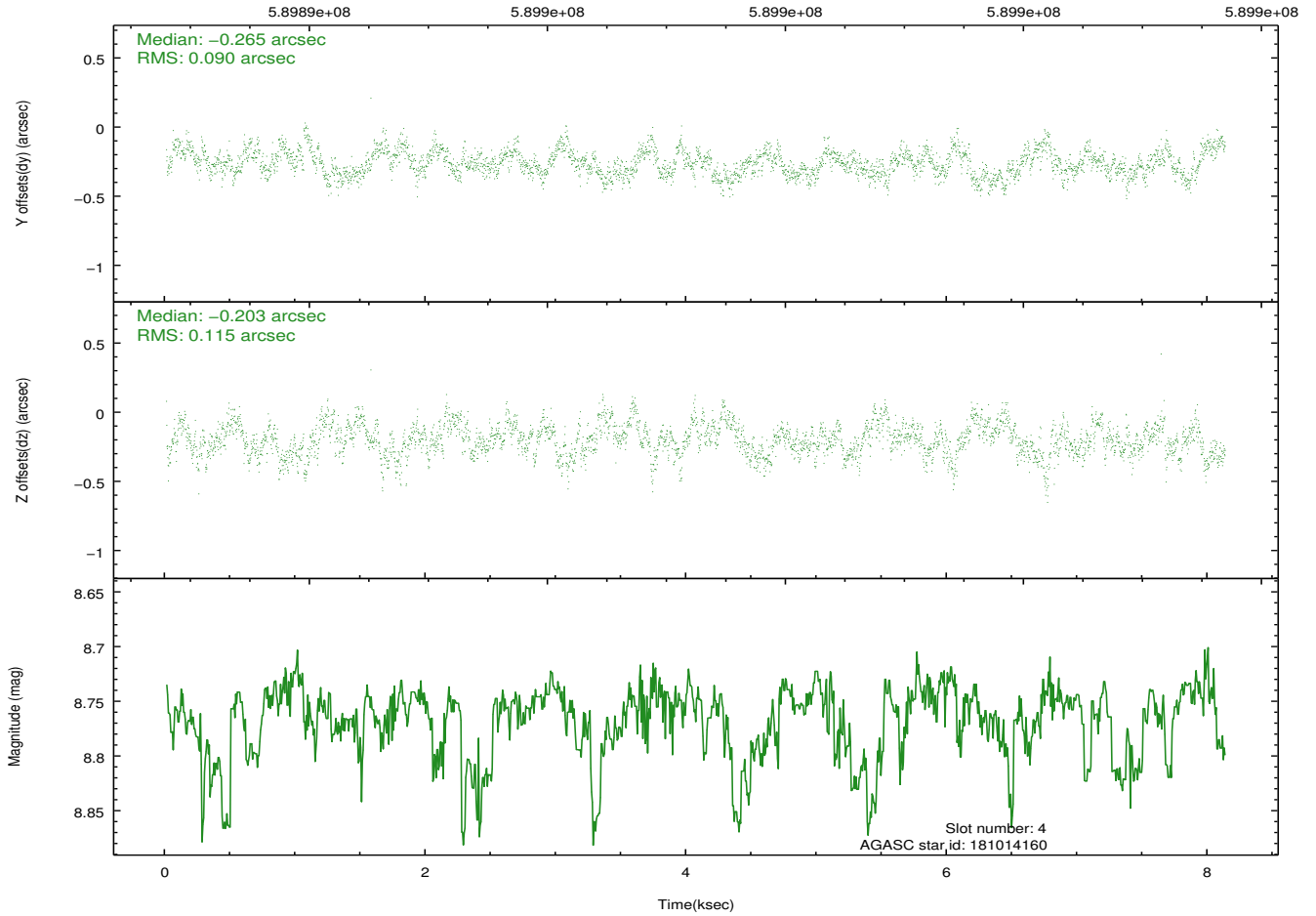
2.4.1 Slot 3



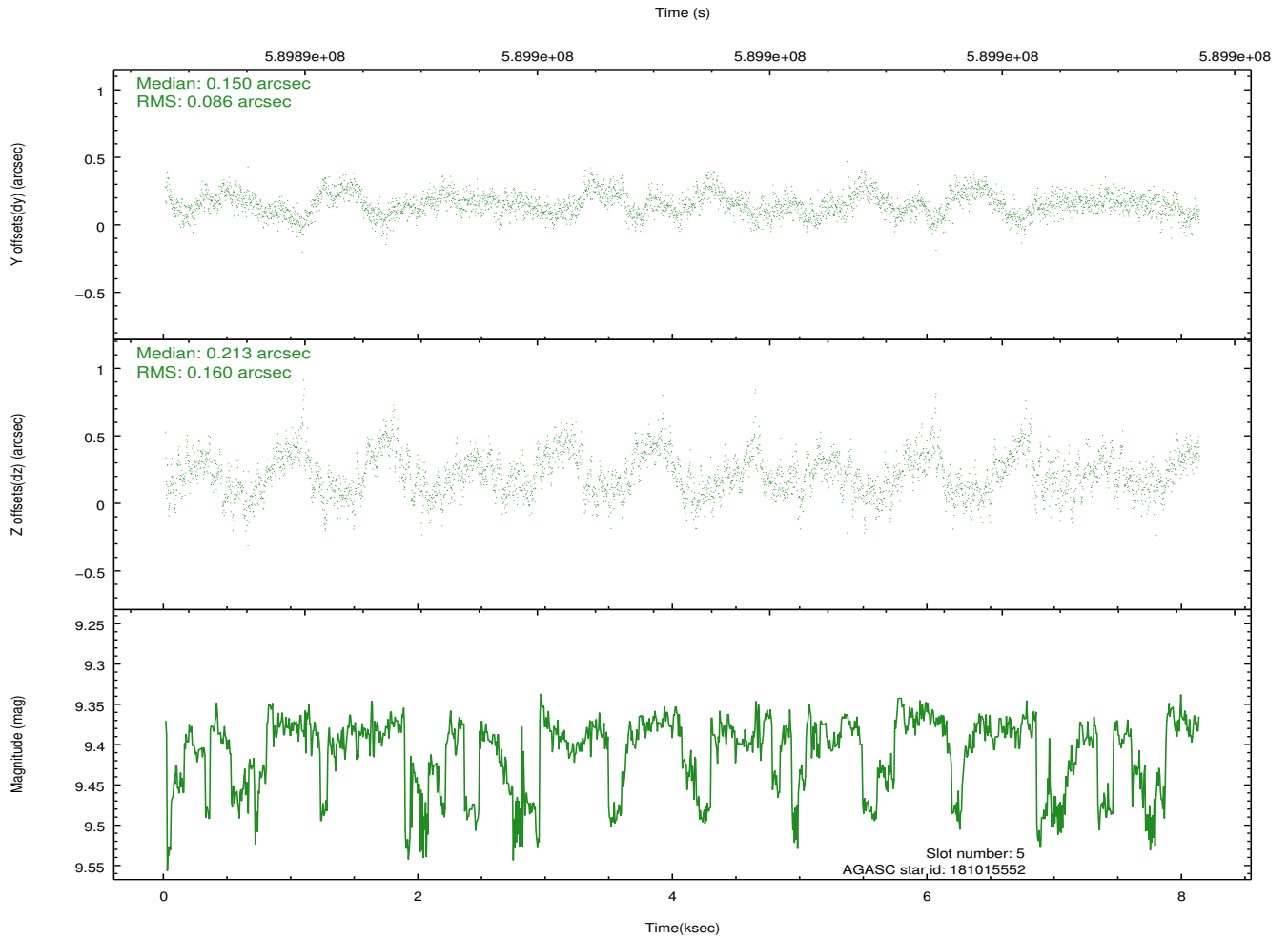
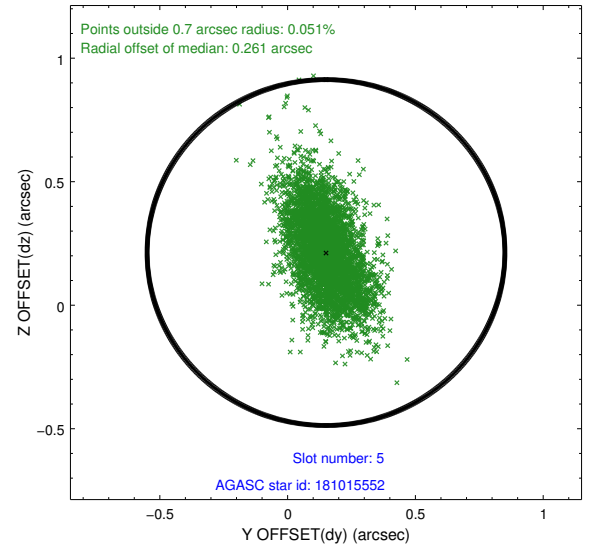
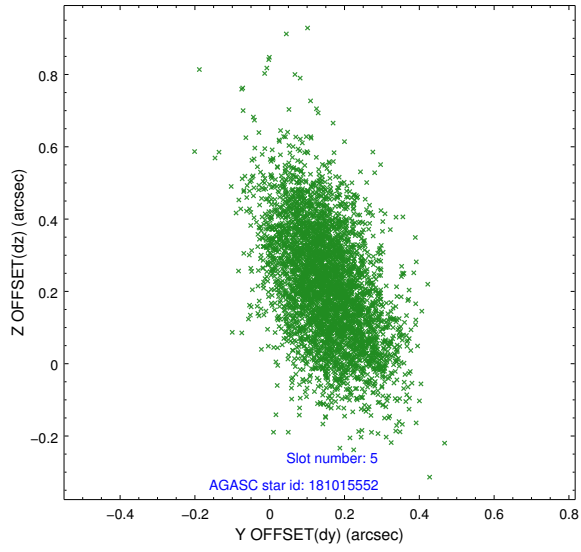
2.4.2 Slot 4



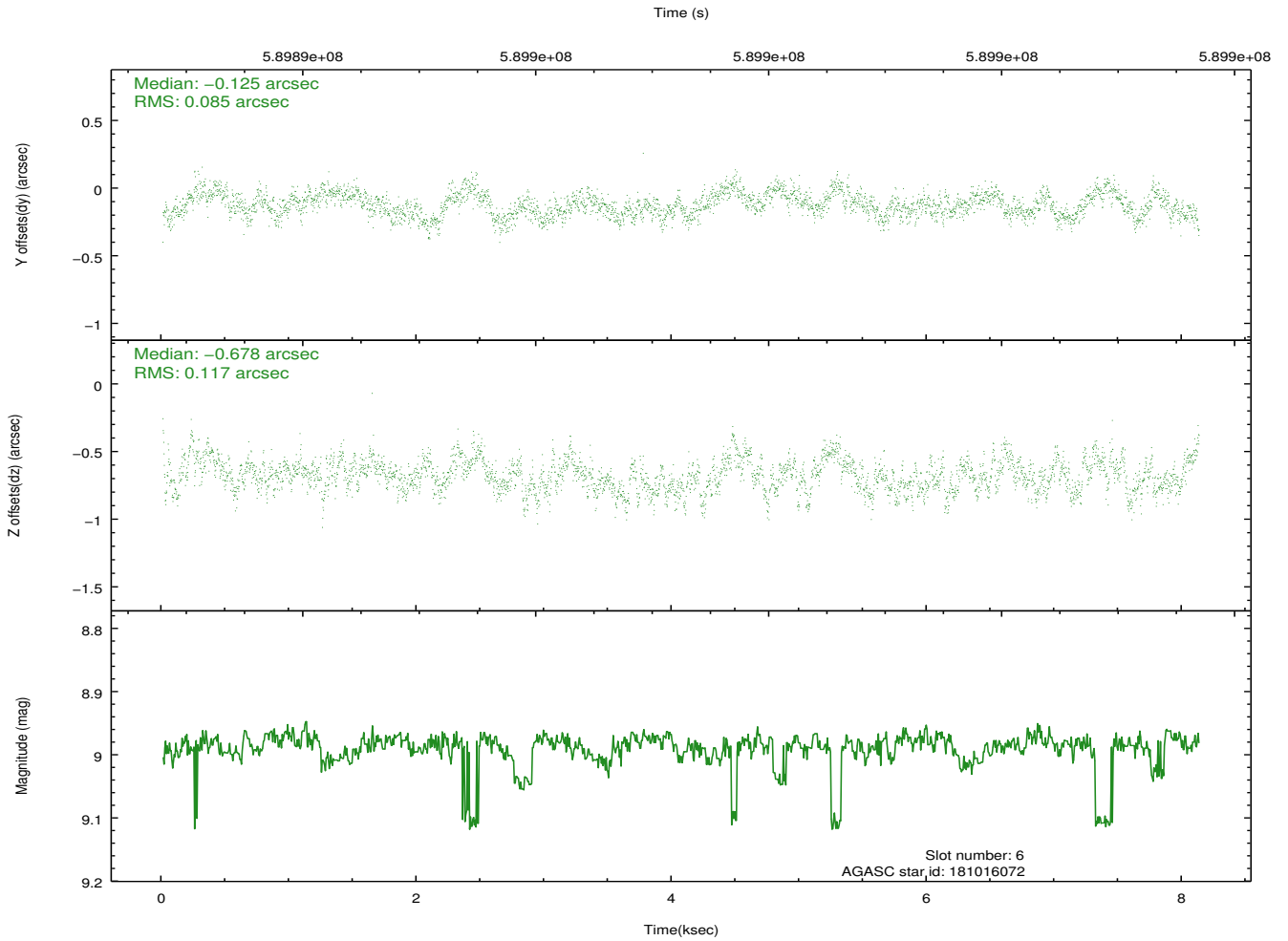
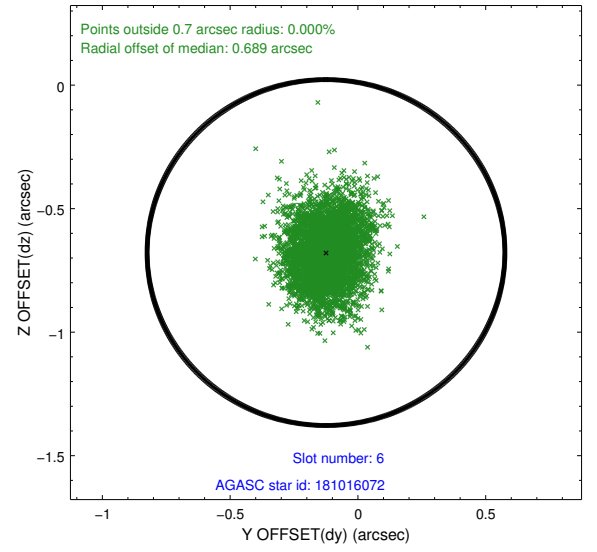
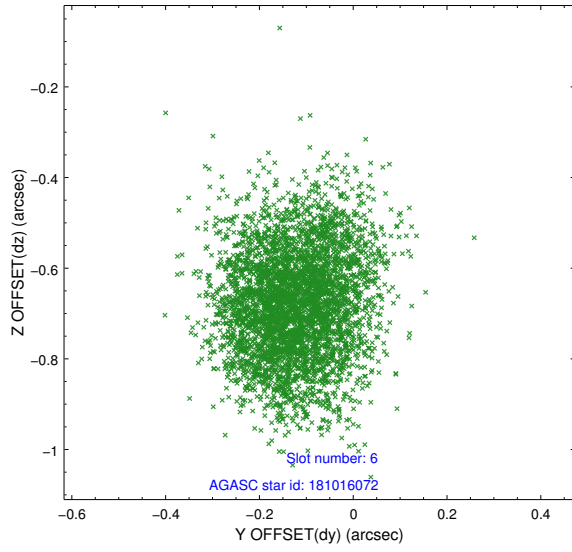
Time (s)



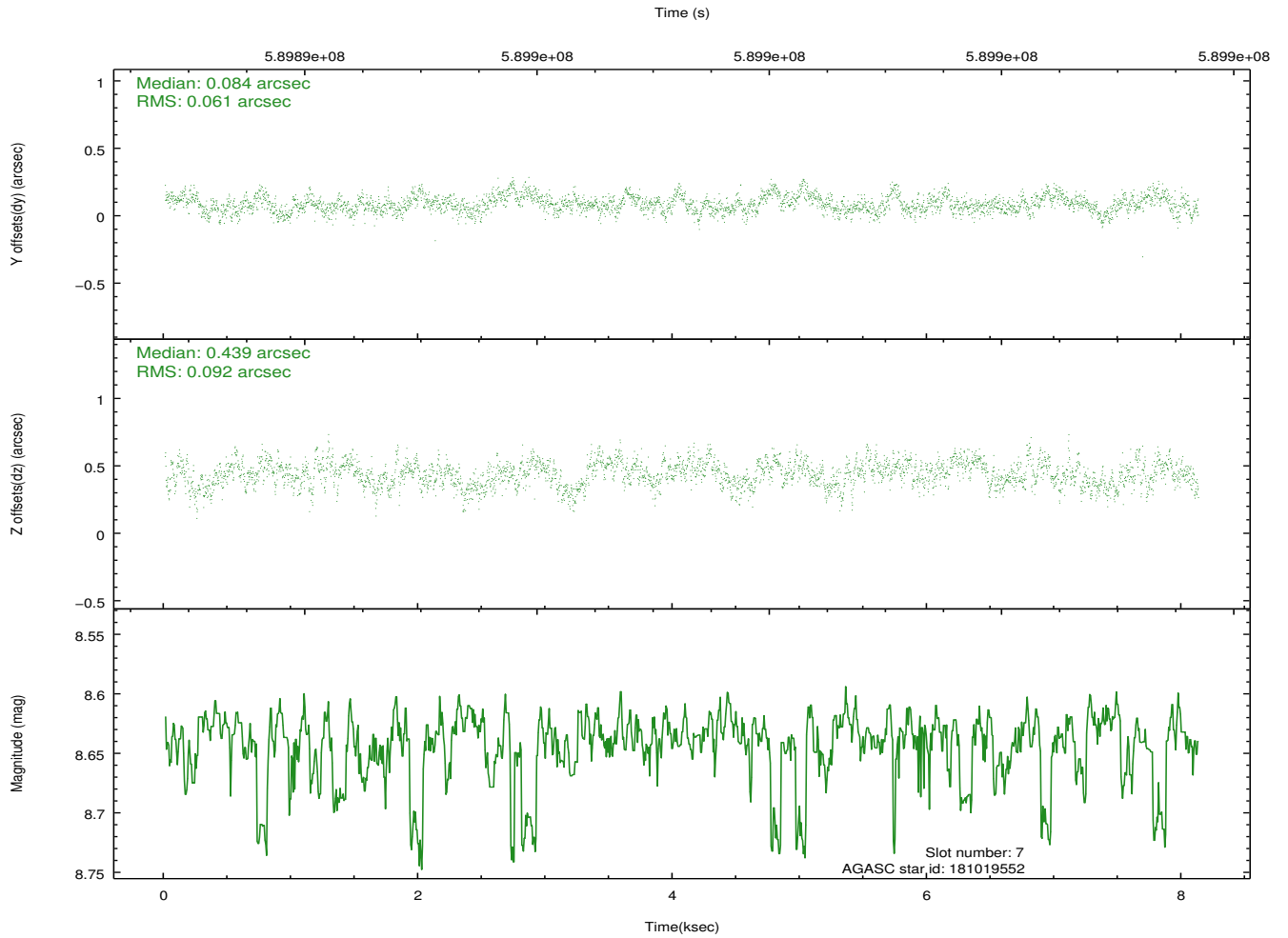
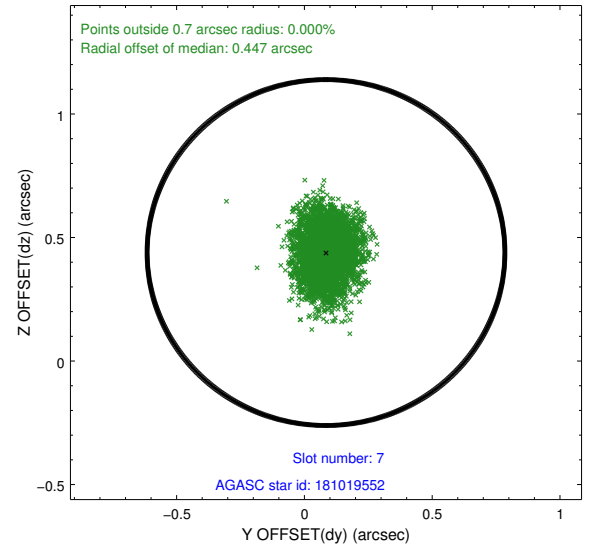
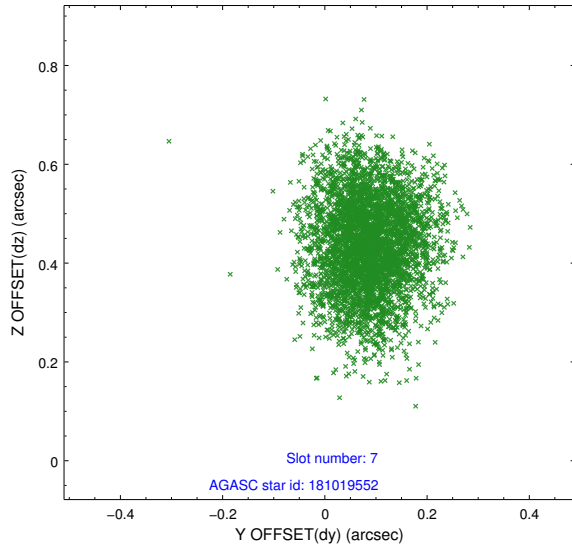
2.4.3 Slot 5



2.4.4 Slot 6

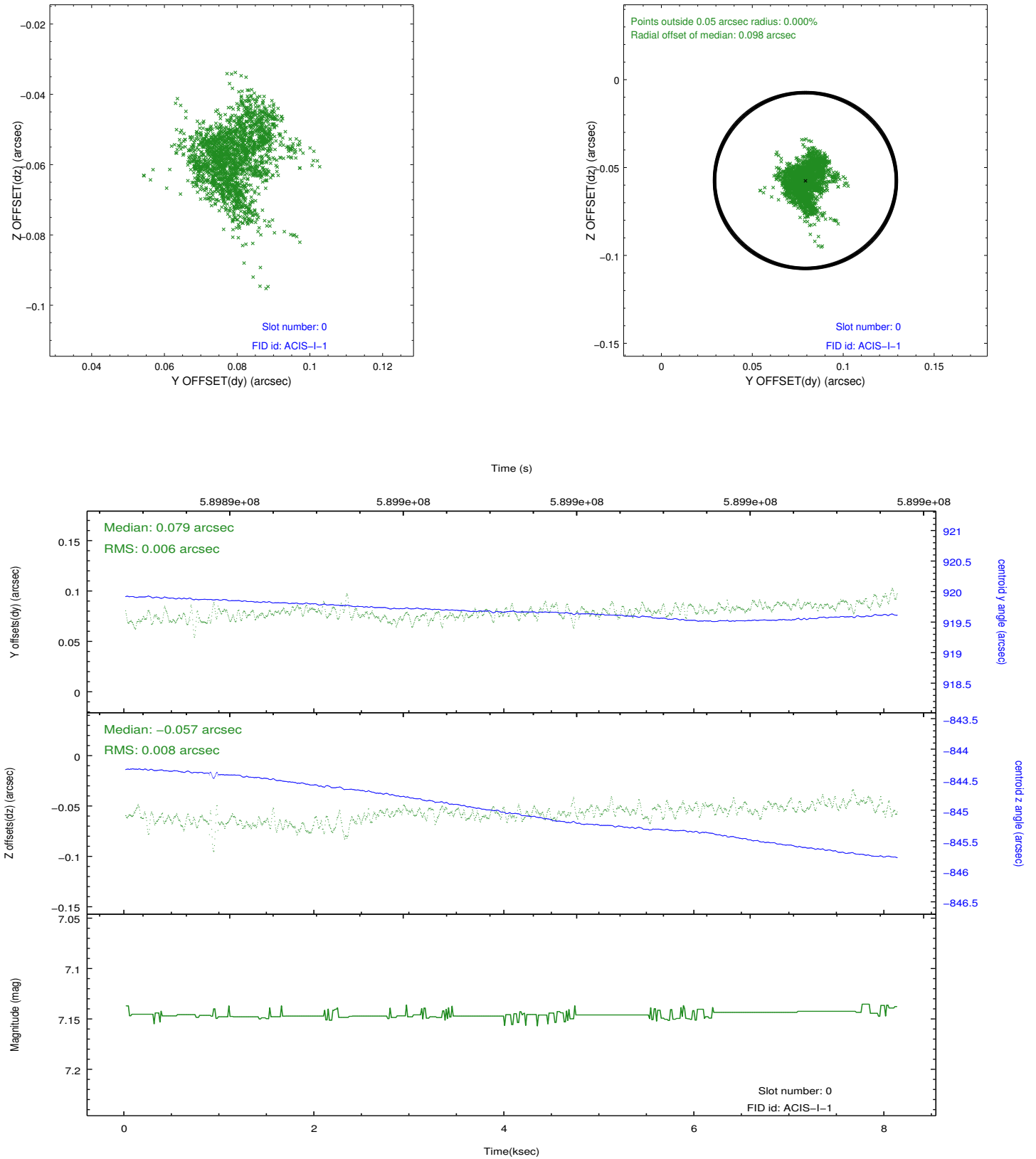


2.4.5 Slot 7

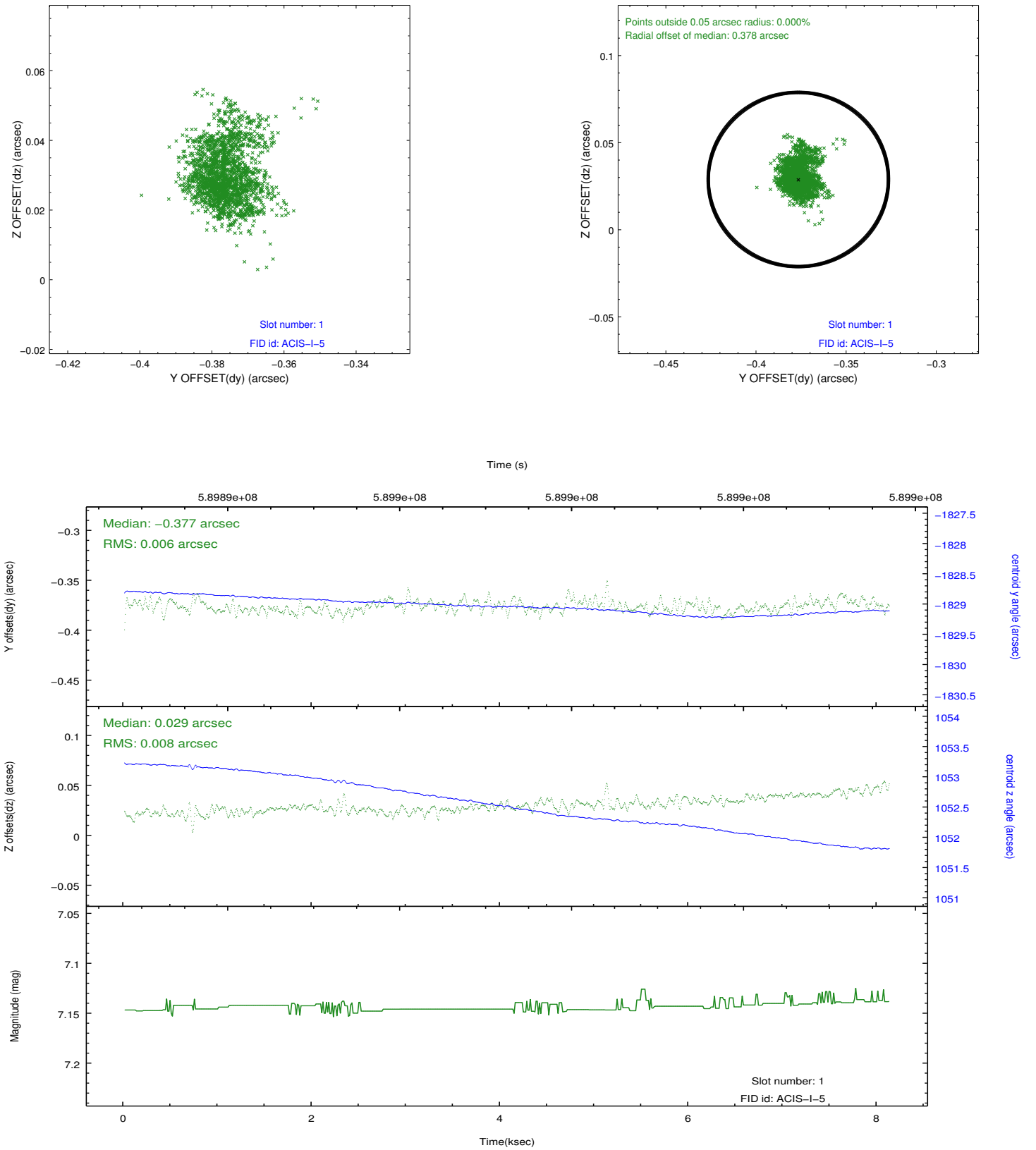


2.5 FID Slots

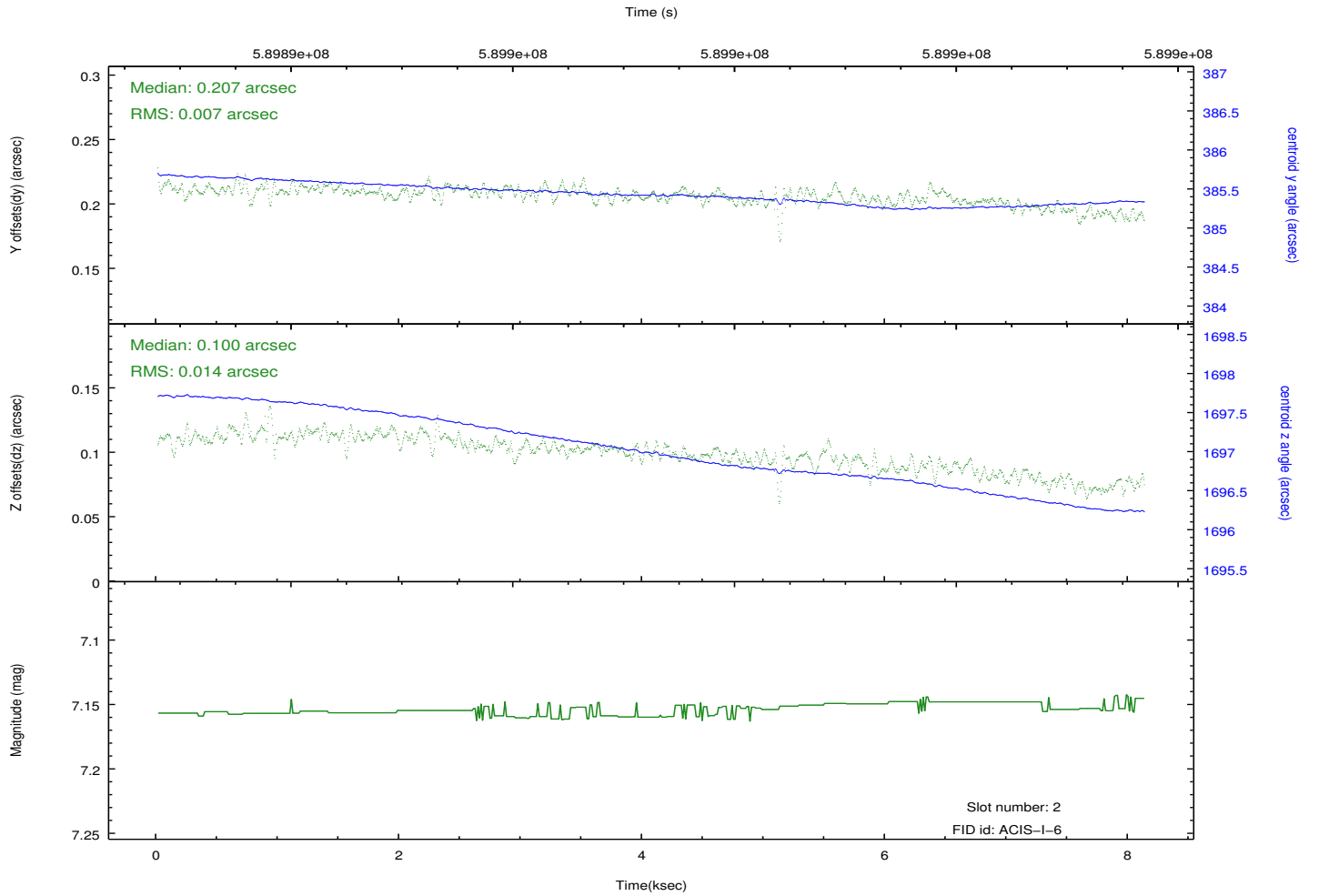
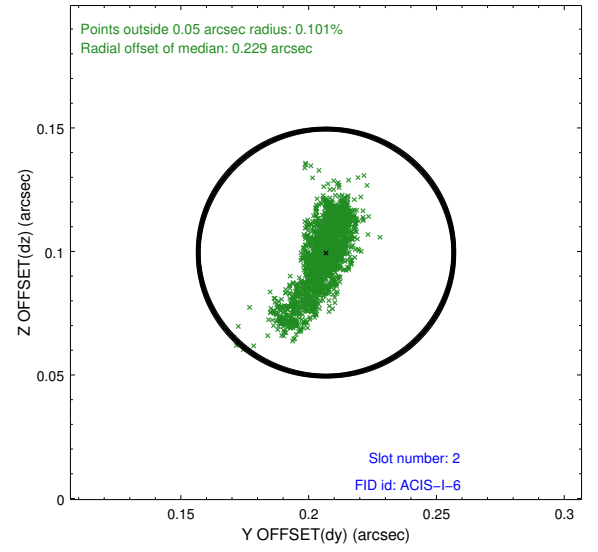
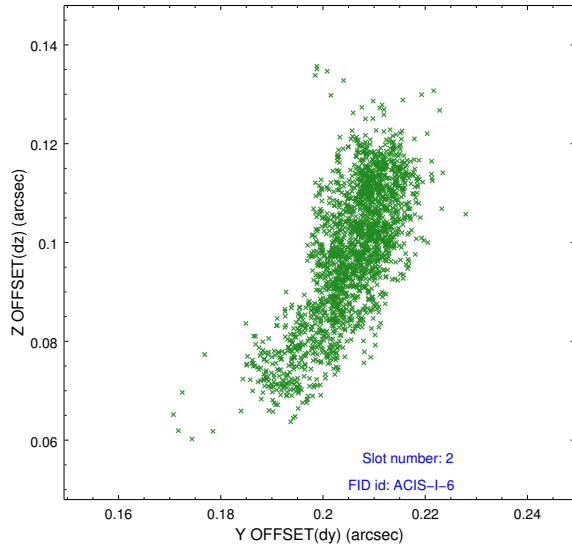
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7685590596199

A.2 Comments