

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19442 - L2 Version 1
Chandra X-Ray Center

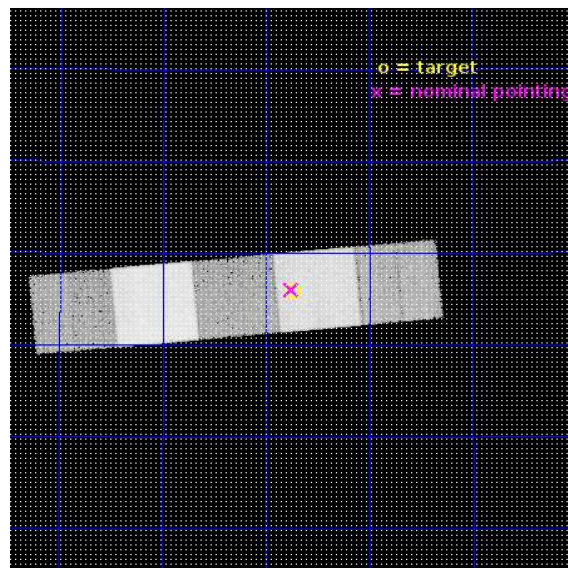
L2 Processing Date : Oct 11 2017

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

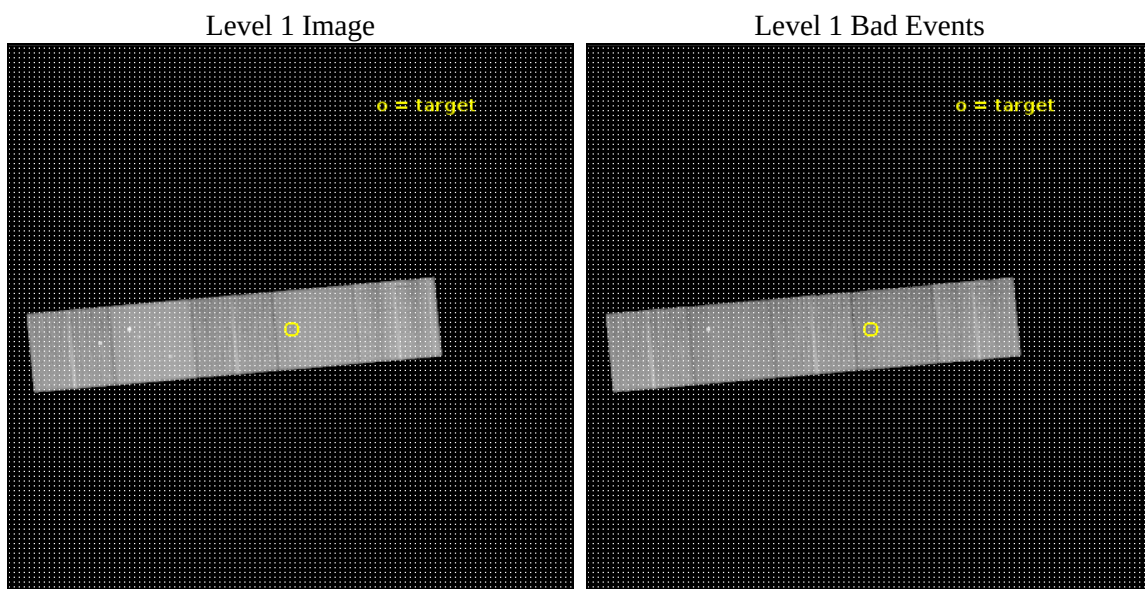
seq_num	601399	Sequence number
obs_id	19442	Observation id
title	Too young to shine? Nearby Primordial Starbursts and the X-ray Scaling Relations in the Early Universe	Proposal title
observer	Antara Basu-zych	Principal investigator
object	J132844.05+435550.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.18375	Observer's specified target RA [deg]
dec_targ	43.930694	Observer's specified target Dec [deg]
ra_nom	202.18851396445	Nominal RA [deg]
dec_nom	43.934354002693	Nominal Dec [deg]
roll_nom	354.65333493445	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33852.000260472	Sum of GTIs [s]
livetime	33409.698955589	Livetime [s]
ontime4	33842.577379584	Sum of GTIs [s]
ontime5	33852.000260472	Sum of GTIs [s]
ontime6	33852.000260472	Sum of GTIs [s]
ontime7	33852.000260472	Sum of GTIs [s]
ontime8	33852.000260472	Sum of GTIs [s]
l2events	364687	Number of level 2 events



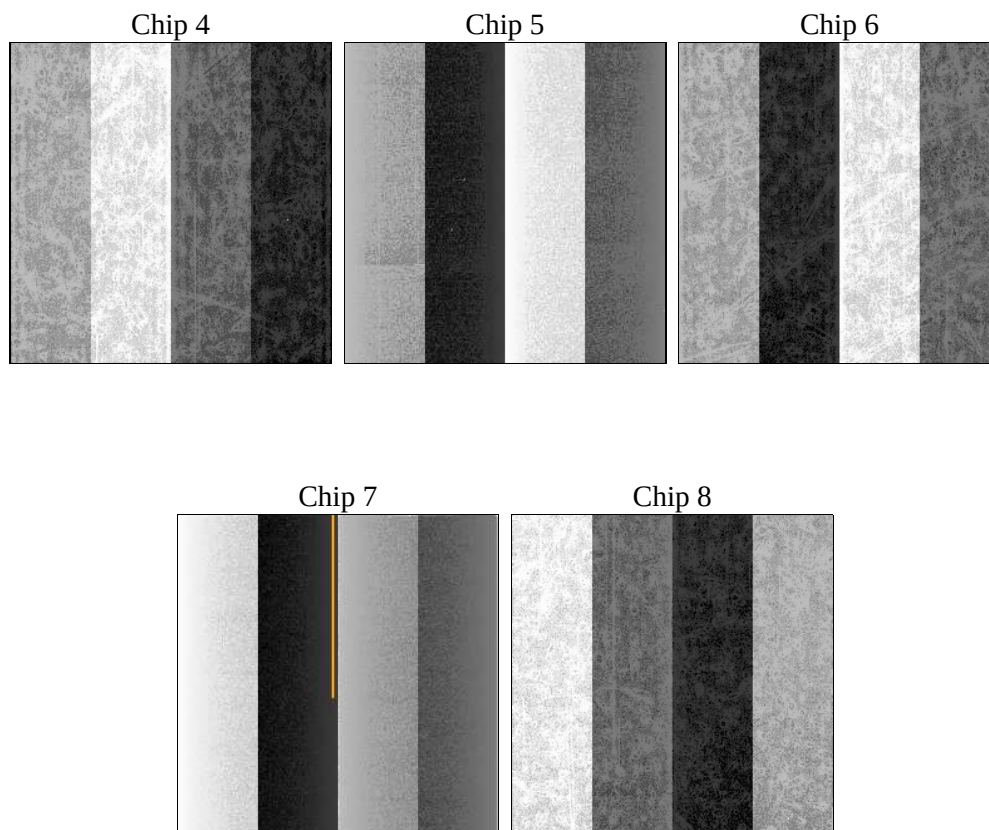
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33800.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	33852.000260472	Sum of GTIs [s]
caldsver	4.7.6	 	ontime4	33842.577379584	Sum of GTIs [s]
date	2017-10-11T13:09:14	Date and time of file creation	ontime5	33852.000260472	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	33852.000260472	Sum of GTIs [s]
			ontime7	33852.000260472	Sum of GTIs [s]
			ontime8	33852.000260472	Sum of GTIs [s]
			l1events	1464181	Number of level 1 events

2.1.4 Events

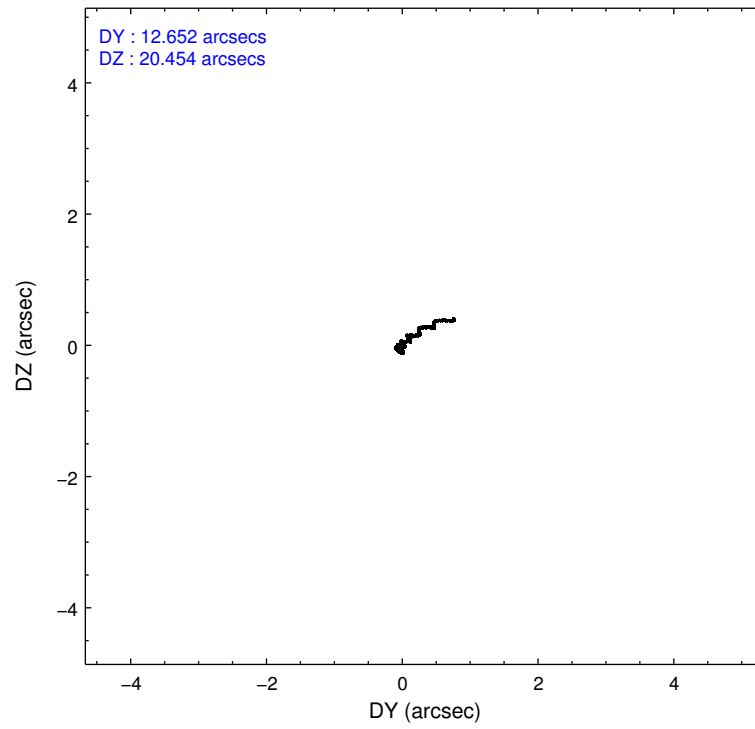
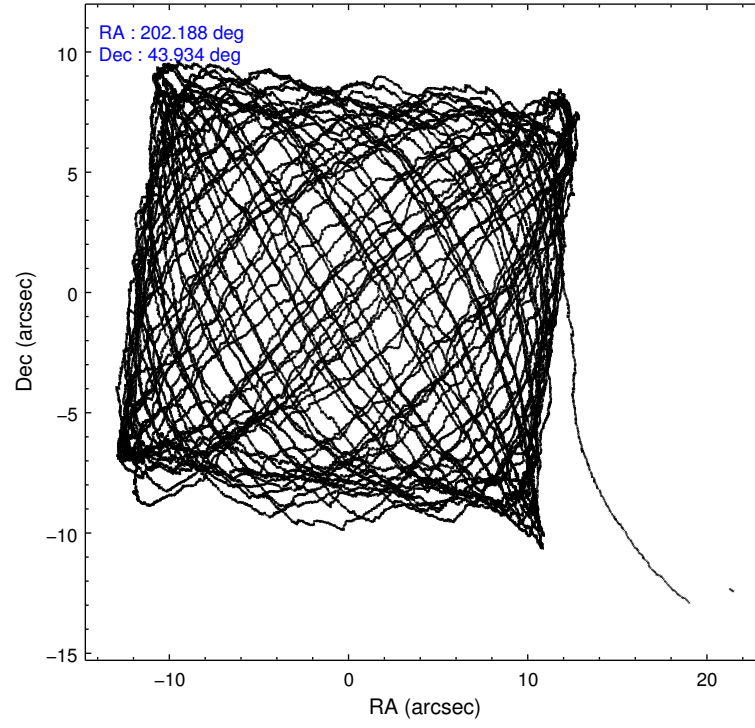
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	253785	374493	231039	293903	310961	grade 0 events	17027	13675	8513	10989	24738
rejected events	219344	195273	205031	166147	225147		6%	3%	3%	3%	7%
rejected %	86%	52%	88%	56%	72%	grade 1 events	242	816	131	432	230
							0%	0%	0%	0%	0%
						grade 2 events	6845	59489	6124	27140	20968
							2%	15%	2%	9%	6%
						grade 3 events	2940	5502	2585	10301	8636
							1%	1%	1%	3%	2%
						grade 4 events	2832	5364	2577	10433	8205
							1%	1%	1%	3%	2%
						grade 5 events	11102	27035	10863	29794	16972
							4%	7%	4%	10%	5%
						grade 6 events	4801	95206	6209	68900	23268
							1%	25%	2%	23%	7%
						grade 7 events	207996	167406	194037	135914	207944
							81%	44%	83%	46%	66%

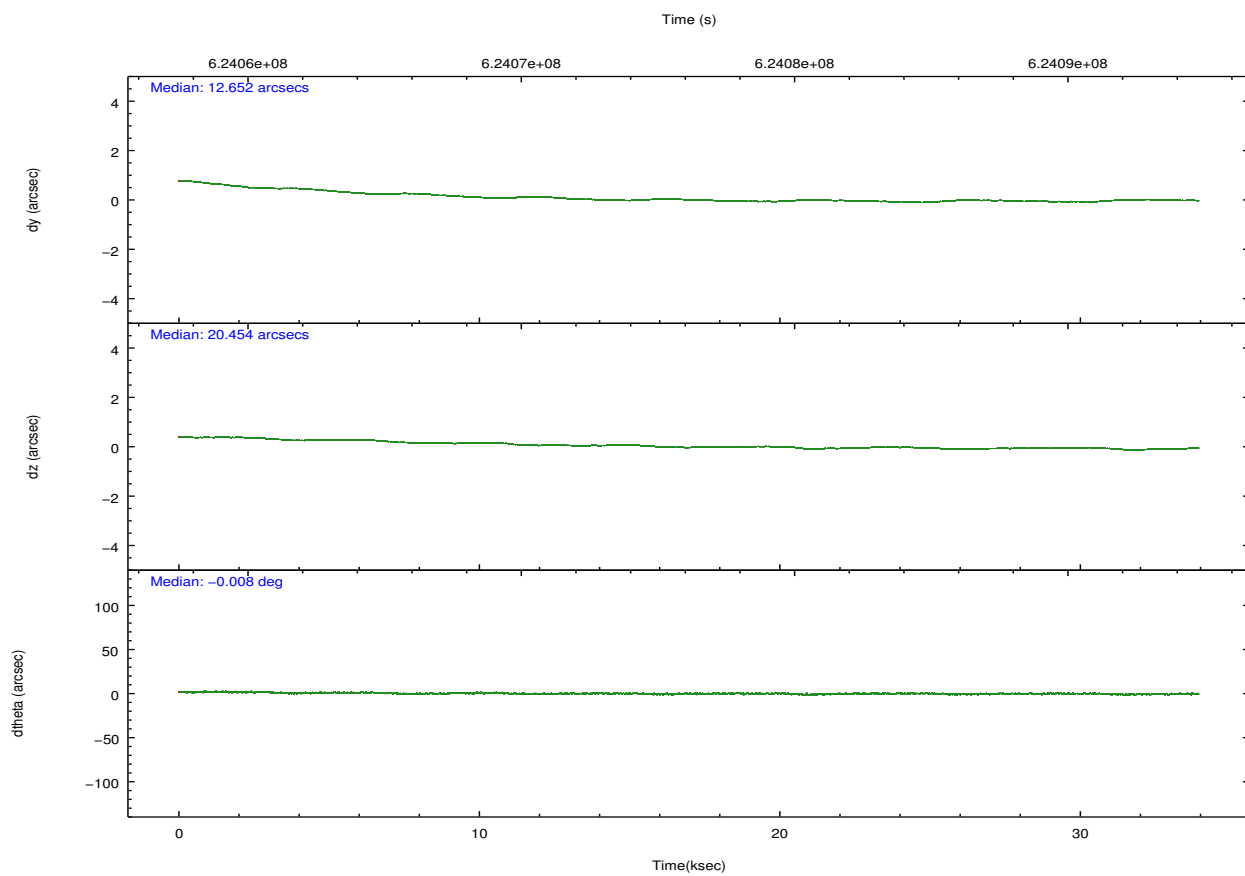
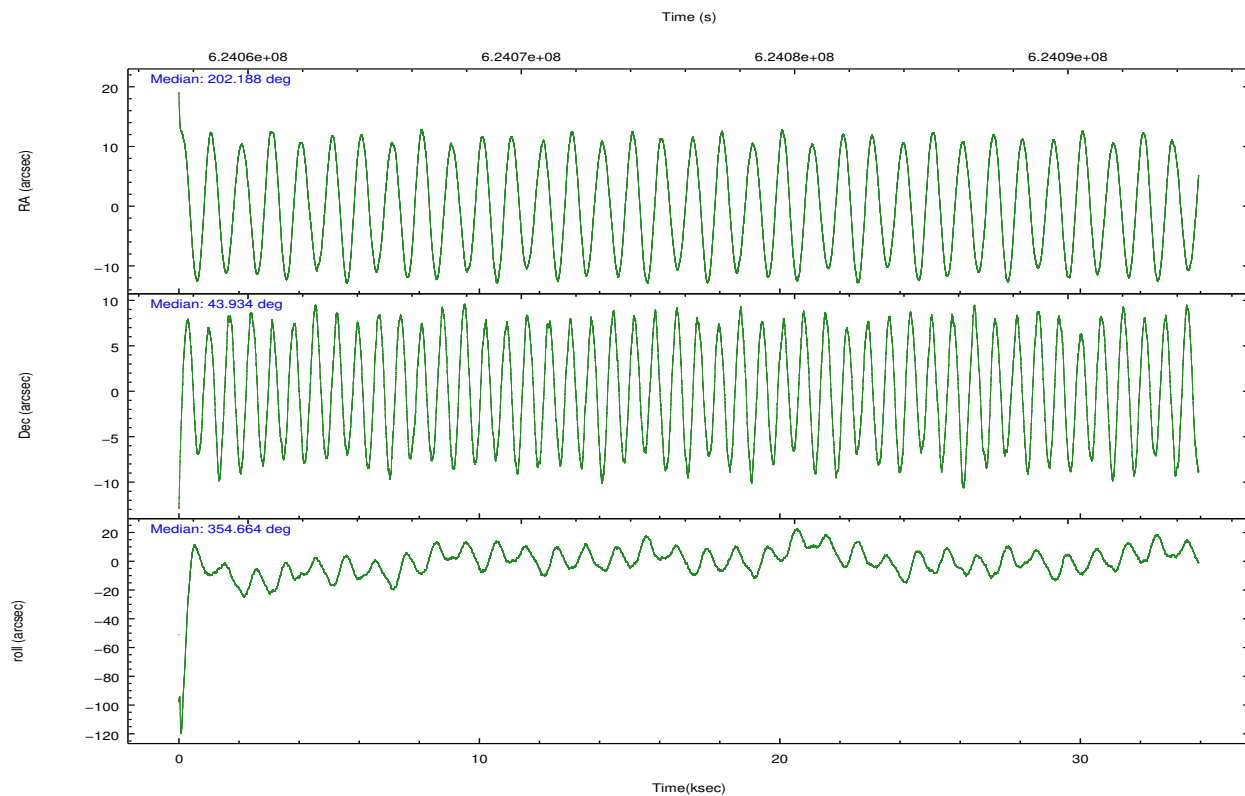
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-45678	ACIS-45678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	202.154108	202.1885139644455
[deg] Pointing Dec	43.922572	43.93435400269337
[deg] Pointing Roll	354.520563	354.6533349344521
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	624059307.184000	624058094.3357199
Observation start date	2017-10-10T21:47:18	2017-10-10T21:28:14
[s] Observation end time (MET)	624093107.184000	624094104.63783
Observation end date	2017-10-11T07:10:38	2017-10-11T07:28:24
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O3	Y
CCD S1 on	O2	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



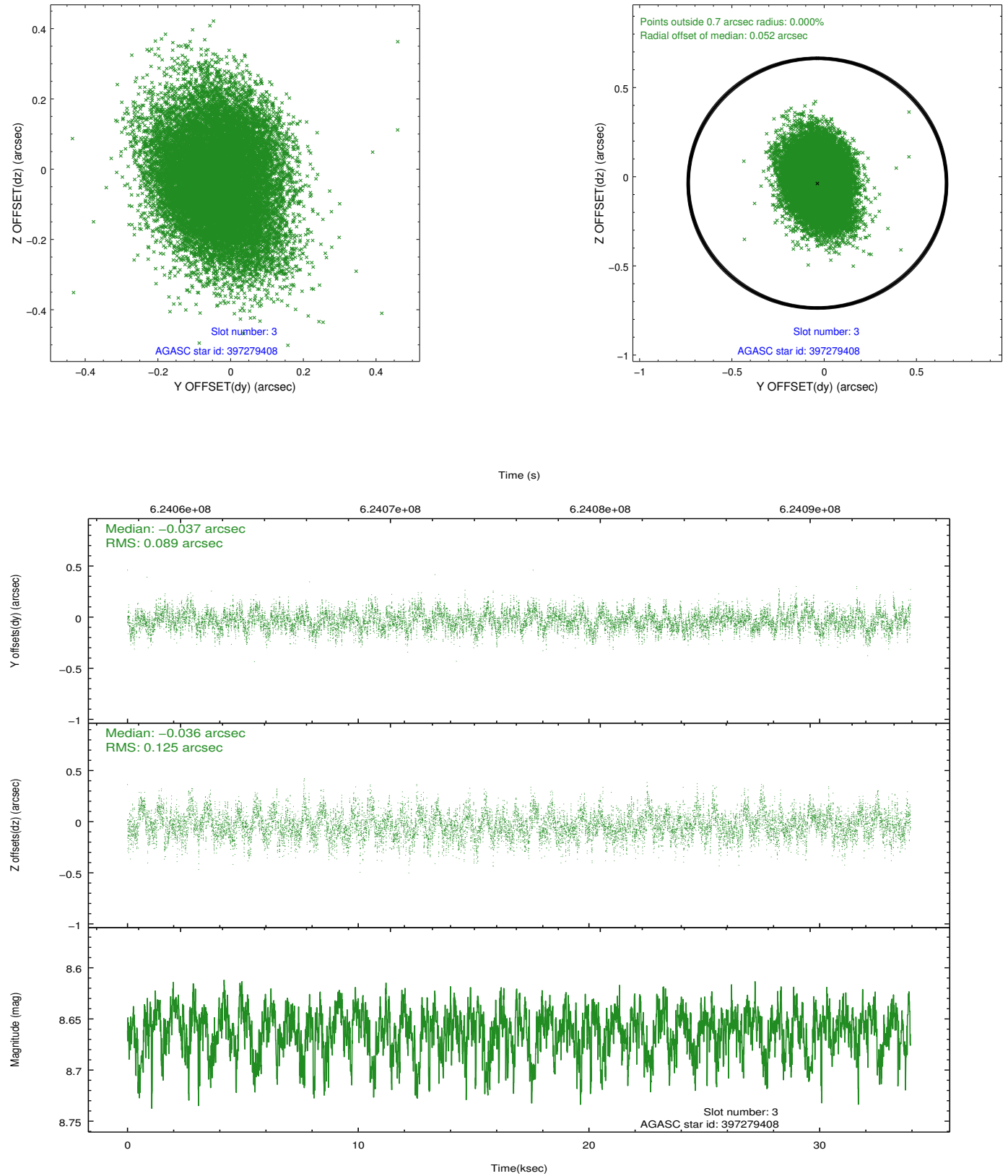


Slot Statistics

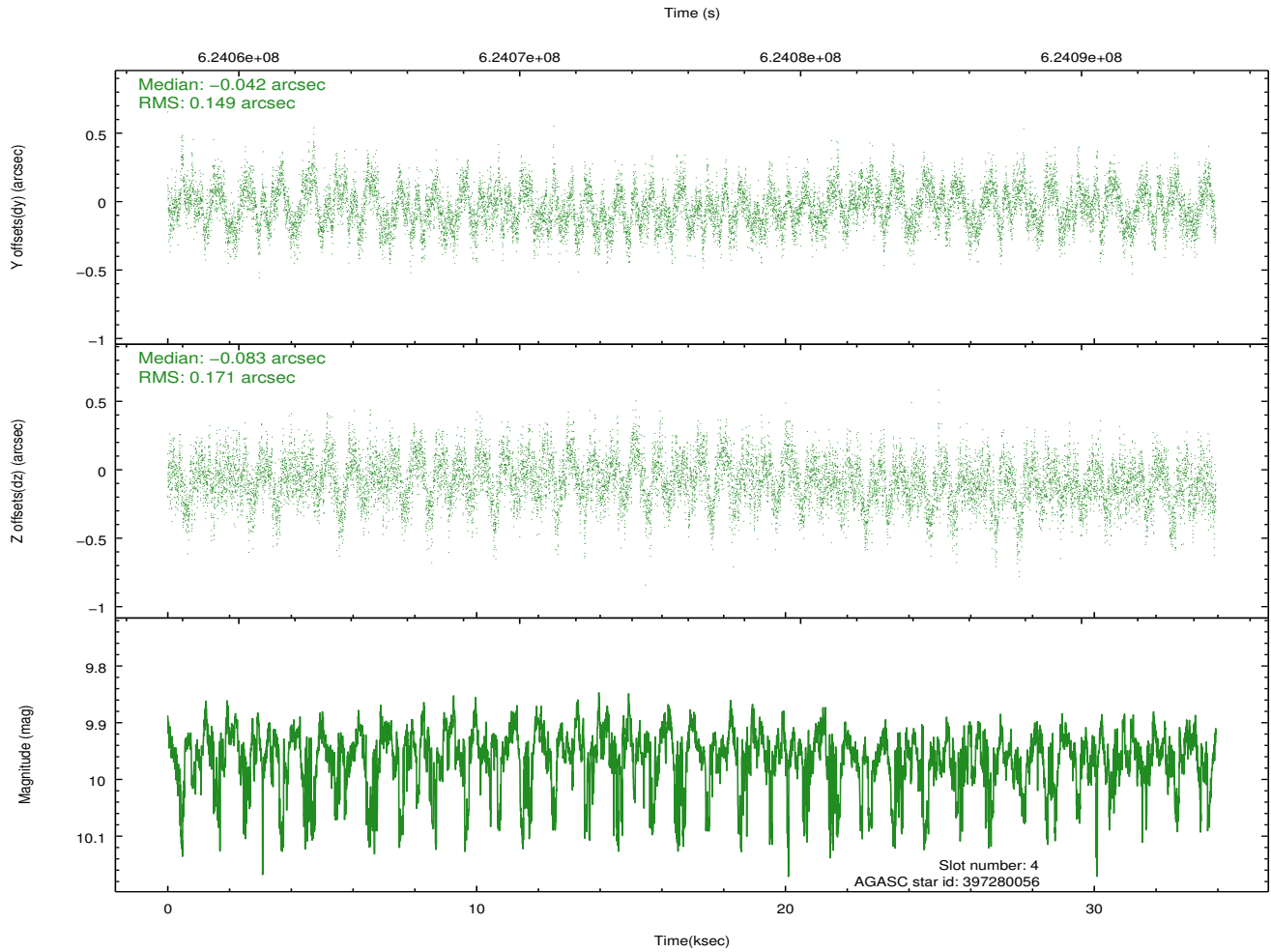
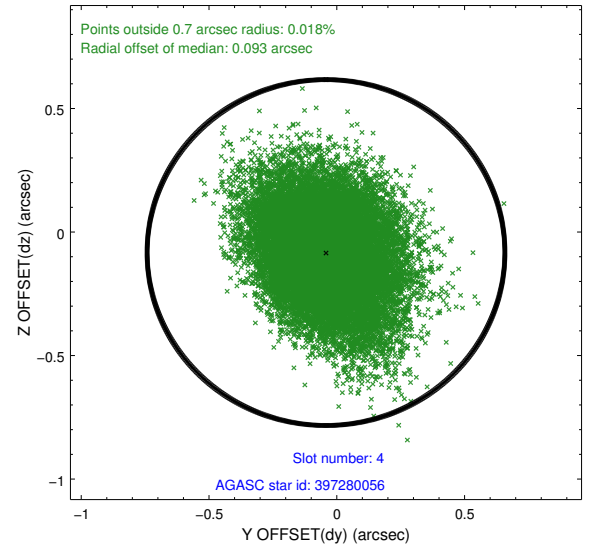
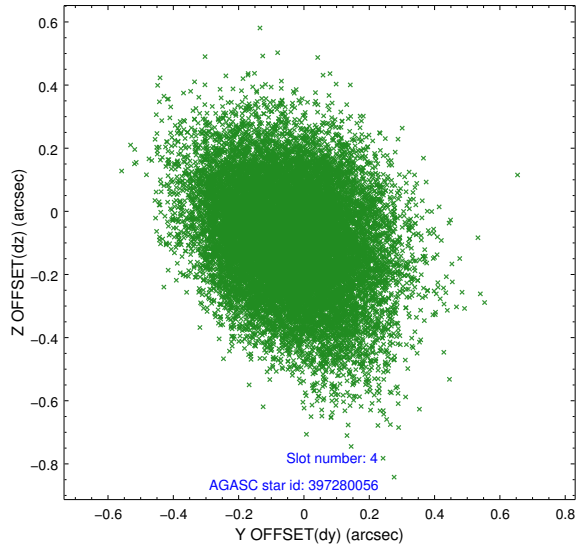
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.03	8277	0.103	-0.066	0.013	0.028	0.000000	0.000000	930.55	-1737.71
1	FID		ACIS-S-5	7.06	8277	-0.241	0.045	0.012	0.039	0.000000	0.000000	-1818.85	159.80
2	FID		ACIS-S-6	7.18	8277	0.118	0.033	0.011	0.026	0.000000	0.000000	395.97	803.89
3	GUIDE	used	397279408	8.66	16548	-0.037	-0.036	0.161	0.269	202.652948	43.790253	1335.87	-346.68
4	GUIDE	used	397280056	9.96	16512	-0.042	-0.083	0.240	0.391	202.678564	43.511752	1504.84	-1337.01
5	GUIDE	used	397280136	9.35	16536	0.087	0.137	0.207	0.337	202.404129	43.306092	865.62	-2147.69
6	GUIDE	used	397280976	9.52	16523	0.002	-0.019	0.188	0.319	202.988020	43.477202	2321.32	-1377.00
7	UNUSED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

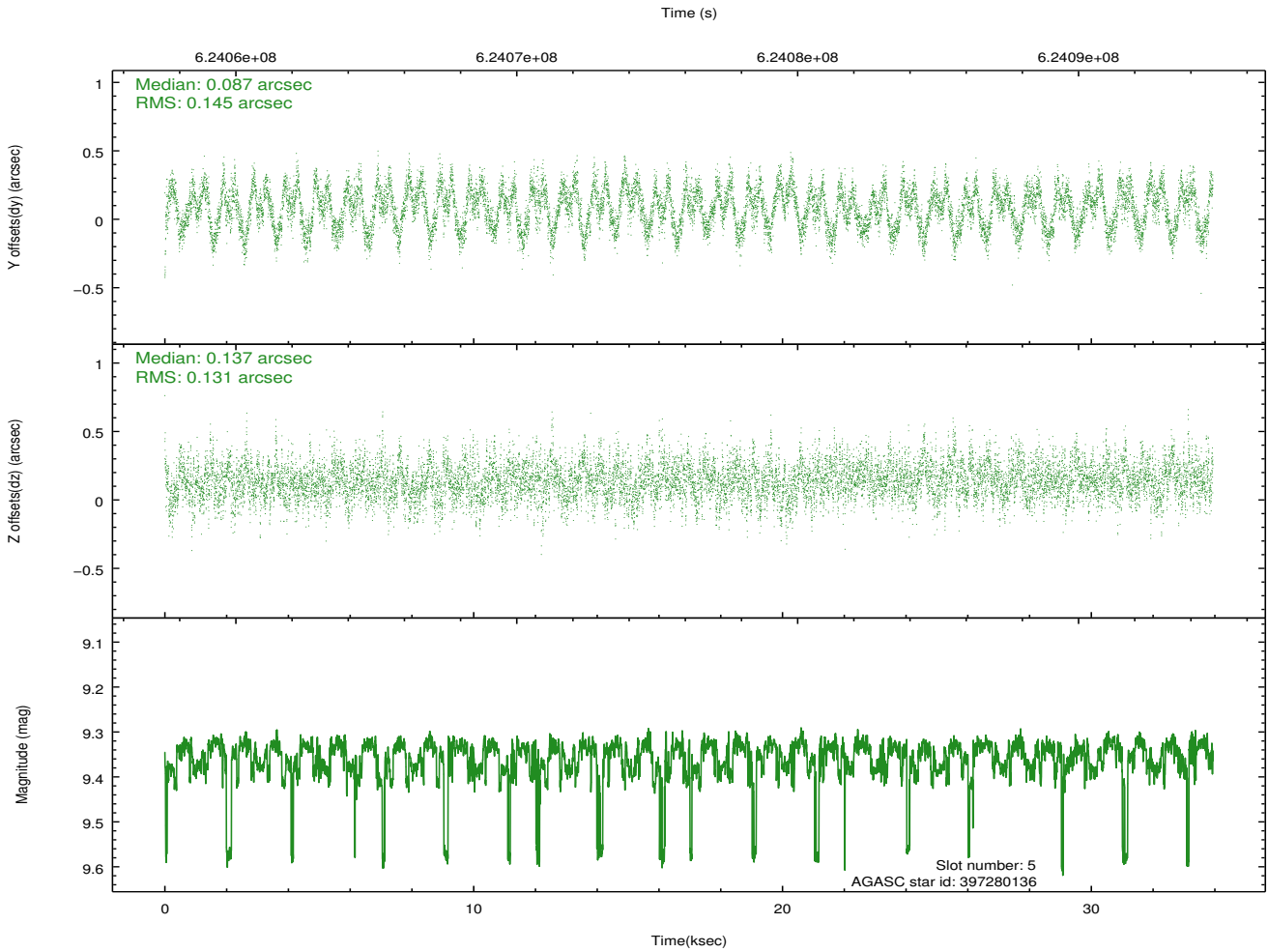
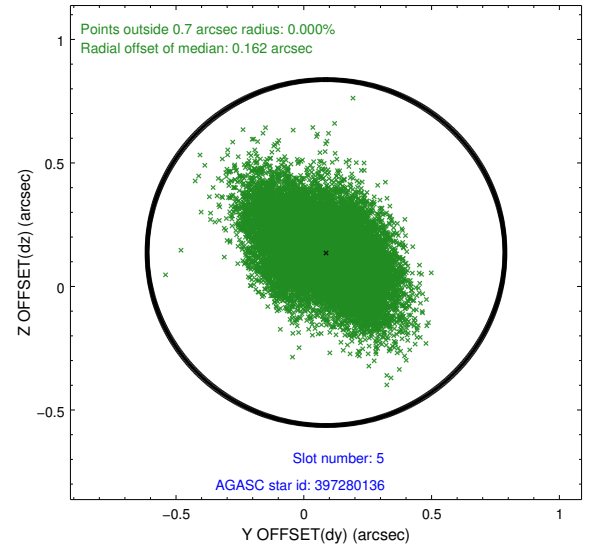
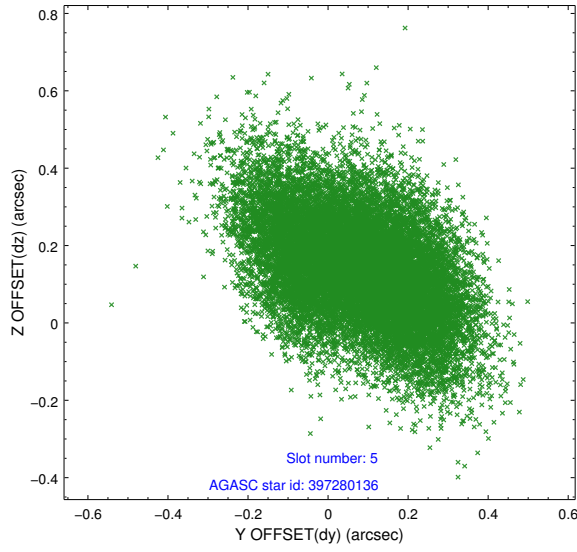
2.4.1 Slot 3



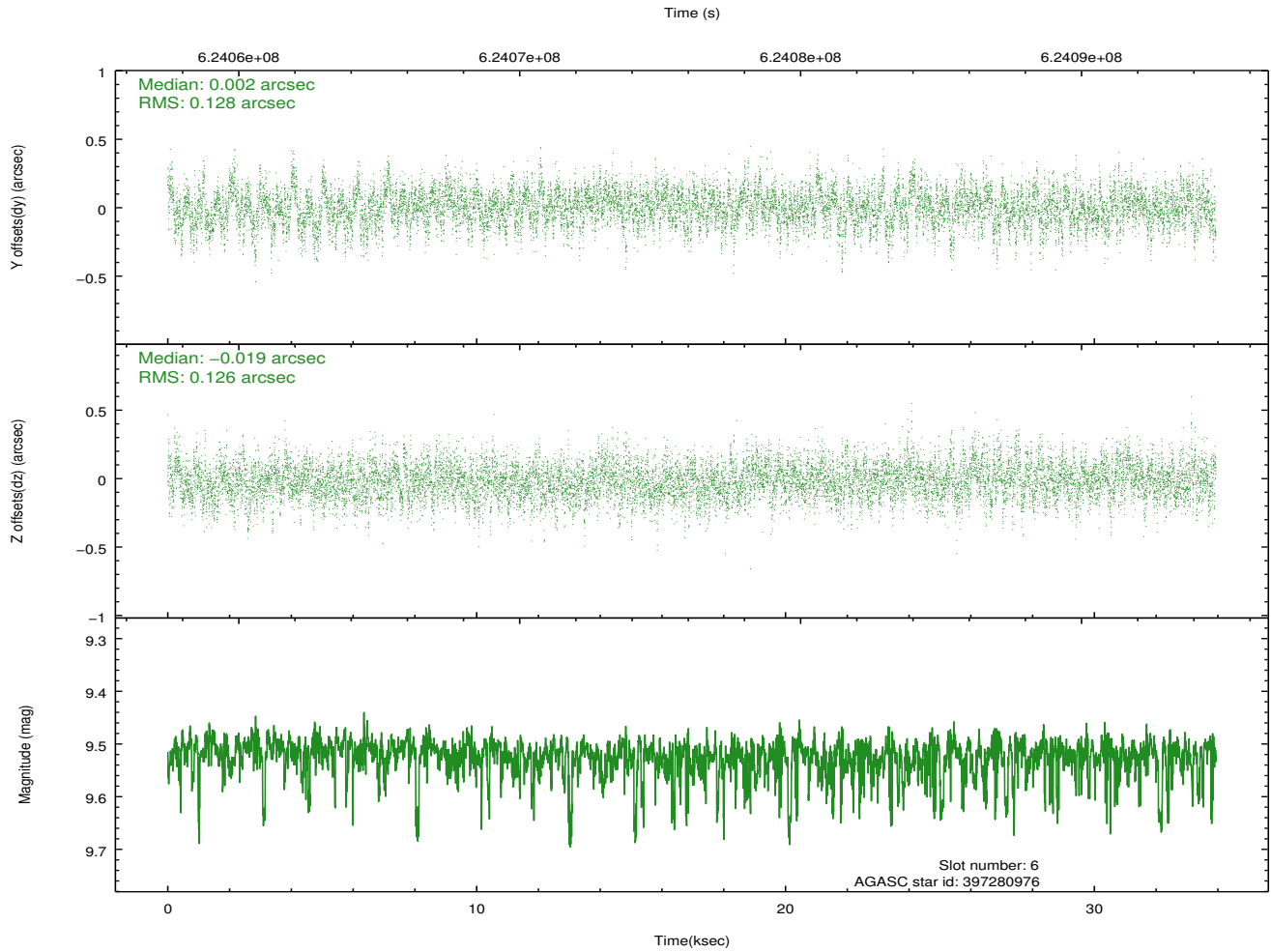
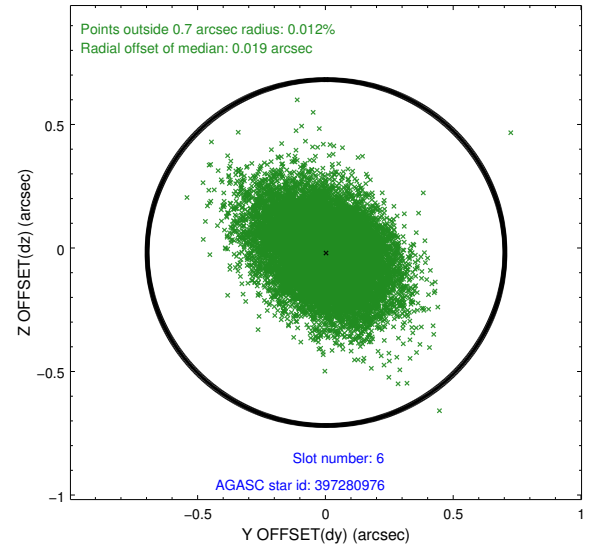
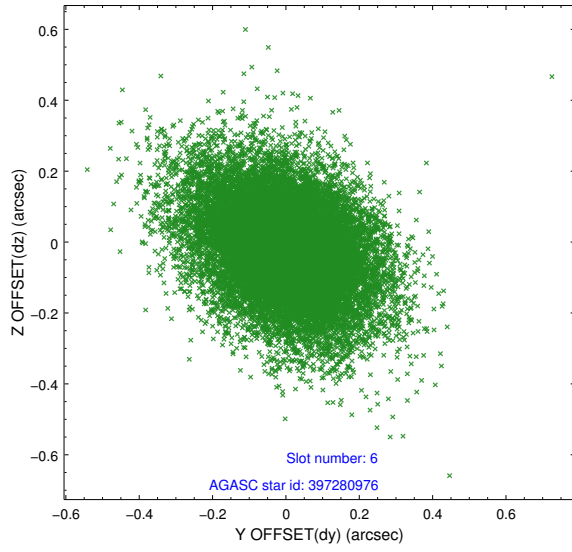
2.4.2 Slot 4



2.4.3 Slot 5

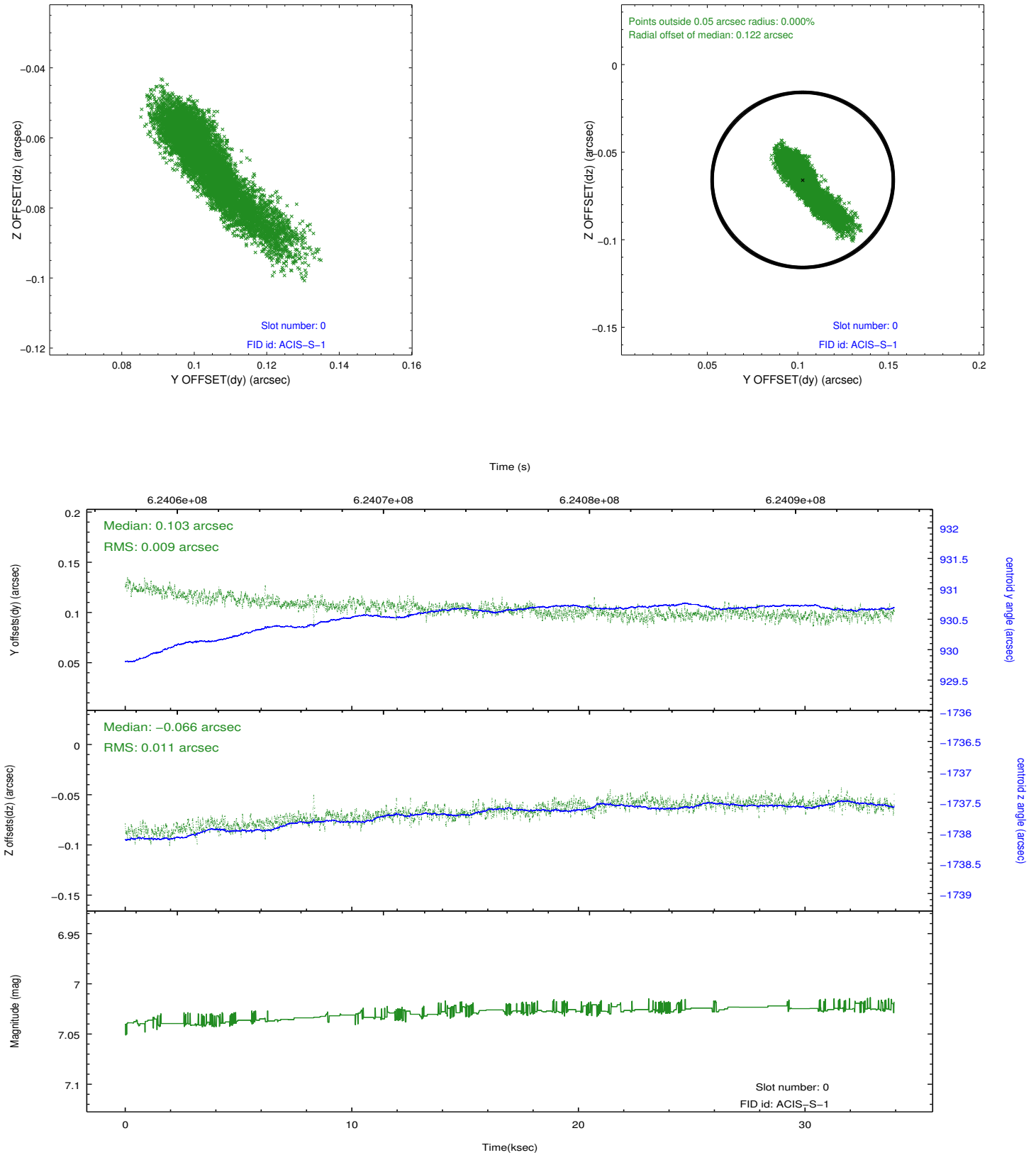


2.4.4 Slot 6

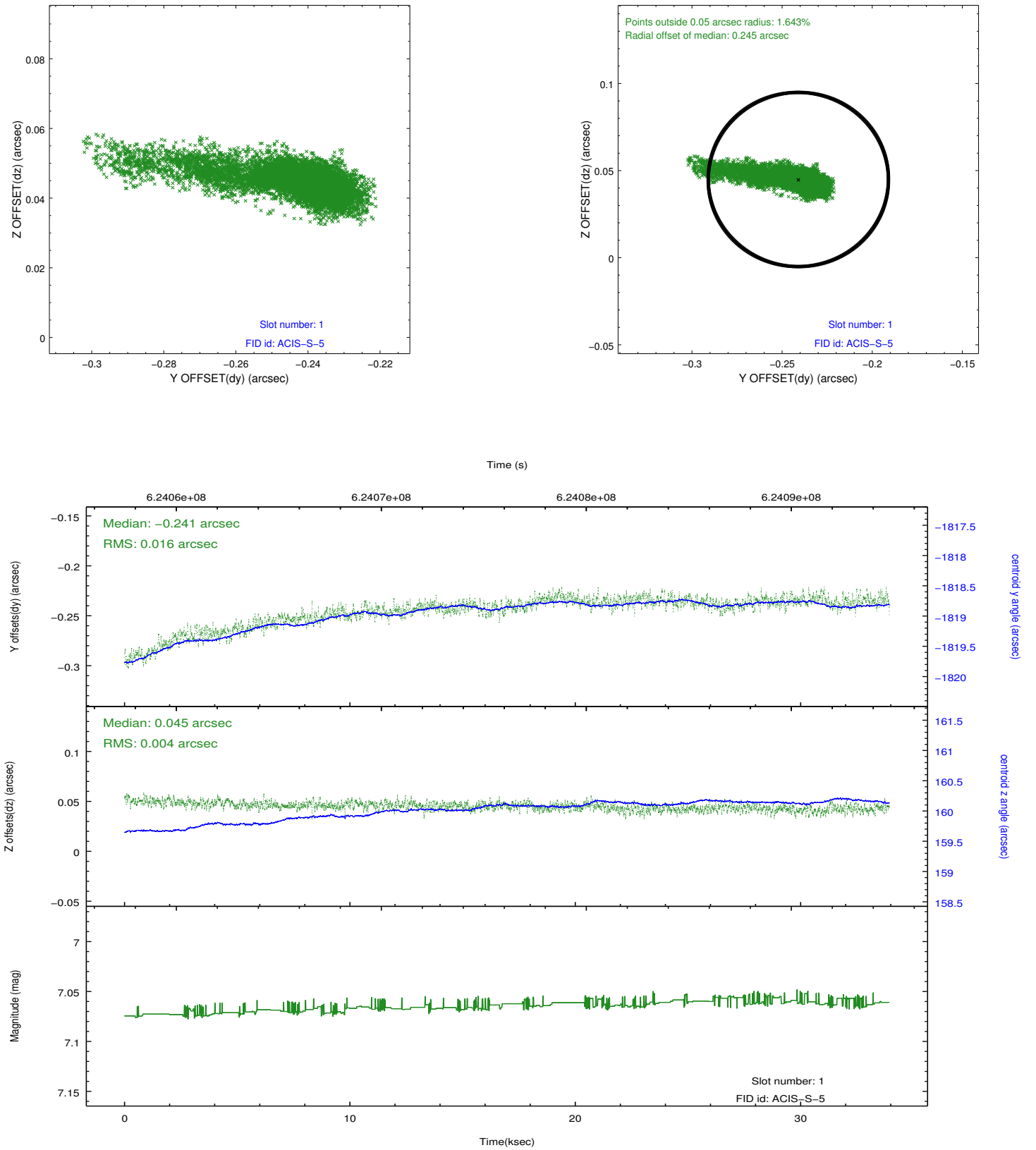


2.5 FID Slots

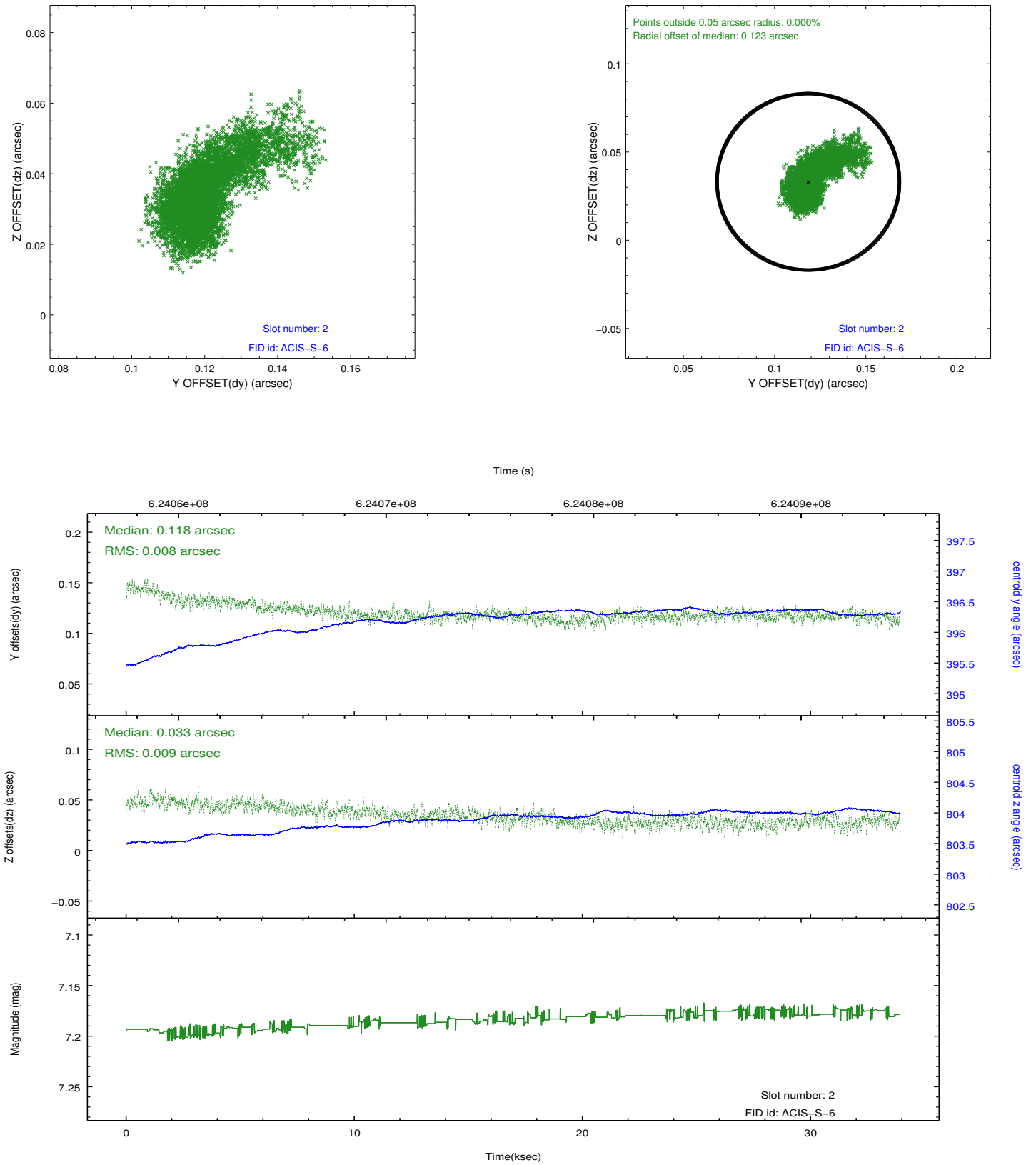
2.5.1 Slot 0



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)	2017.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.852000260472

A.2 Comments

Optional chip S5 not included. Only 4 guide stars were commanded for this observation.