

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18023 - L2 Version 1
Chandra X-Ray Center

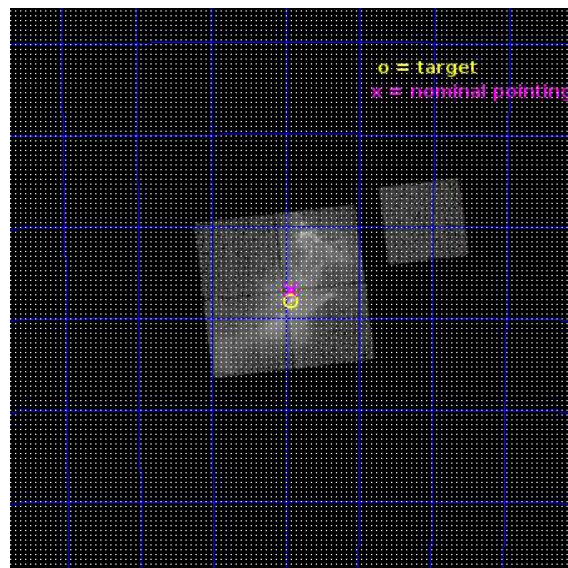
L2 Processing Date : Feb 3 2017

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1 Front

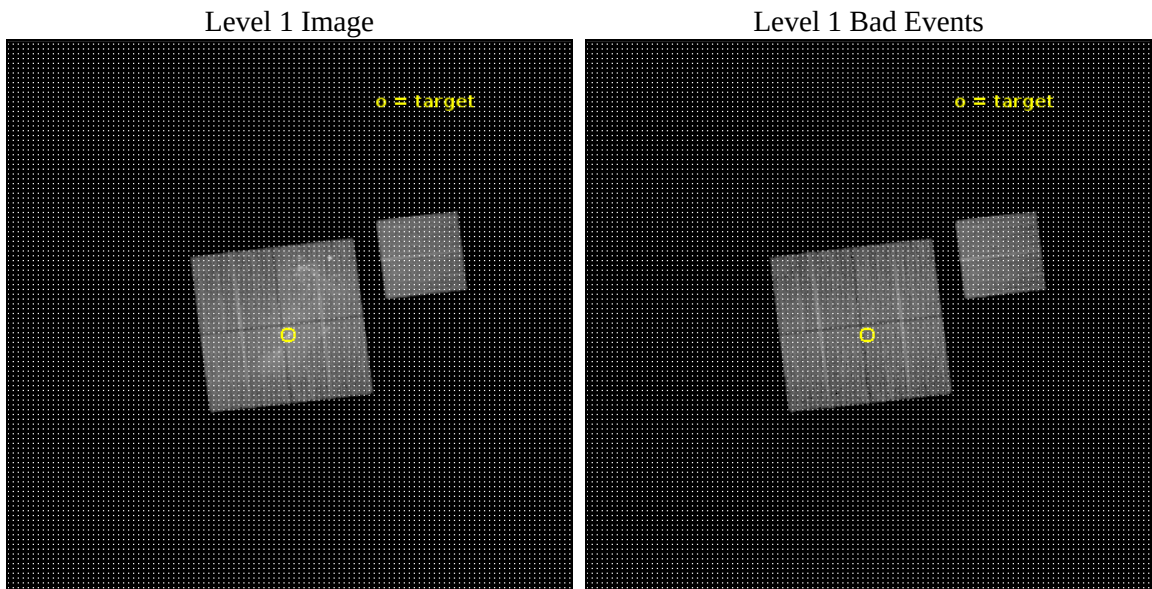
seq_num	502640	Sequence number
obs_id	18023	Observation id
title	IS MUZZIO 10 THE EX-COMPANION STAR OF THE PSR B1509-58 PROGENITOR?	
observer	Zhichao Xue	Principal investigator
object	PSR B1509-58	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.48125	Observer's specified target RA [deg]
dec_targ	-59.135778	Observer's specified target Dec [deg]
ra_nom	228.47913703541	Nominal RA [deg]
dec_nom	-59.115635198957	Nominal Dec [deg]
roll_nom	83.139423971617	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18562.800142884	Sum of GTIs [s]
livetime	18320.263493283	Livetime [s]
ontime0	18553.377022028	Sum of GTIs [s]
ontime1	18556.518162251	Sum of GTIs [s]
ontime2	18562.800142884	Sum of GTIs [s]
ontime3	18562.800142884	Sum of GTIs [s]
ontime6	18559.659252048	Sum of GTIs [s]
l2events	205241	Number of level 2 events



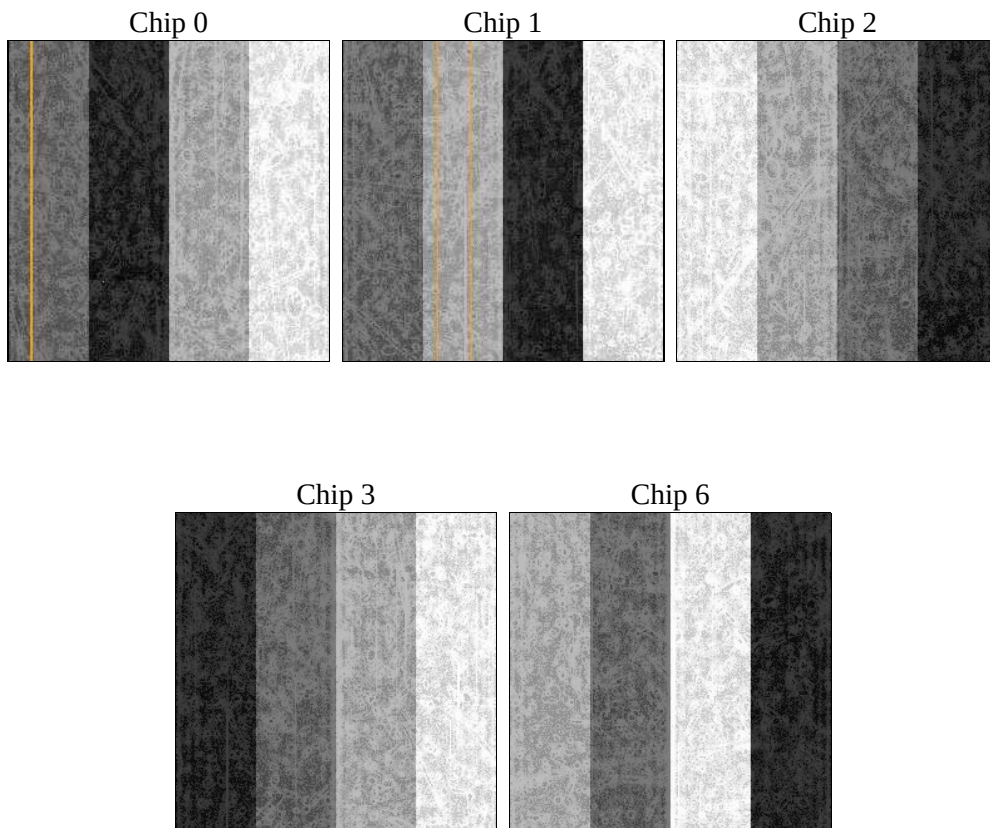
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18501.277000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	18562.800142884	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	18553.377022028	Sum of GTIs [s]
date	2017-02-03T14:20:59	Date and time of file creation	ontime1	18556.518162251	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18562.800142884	Sum of GTIs [s]
			ontime3	18562.800142884	Sum of GTIs [s]
			ontime6	18559.659252048	Sum of GTIs [s]
			l1events	796658	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126742	161950	200238	173881	133847
rejected events	103942	109060	120815	115082	117509
rejected %	82%	67%	60%	66%	87%

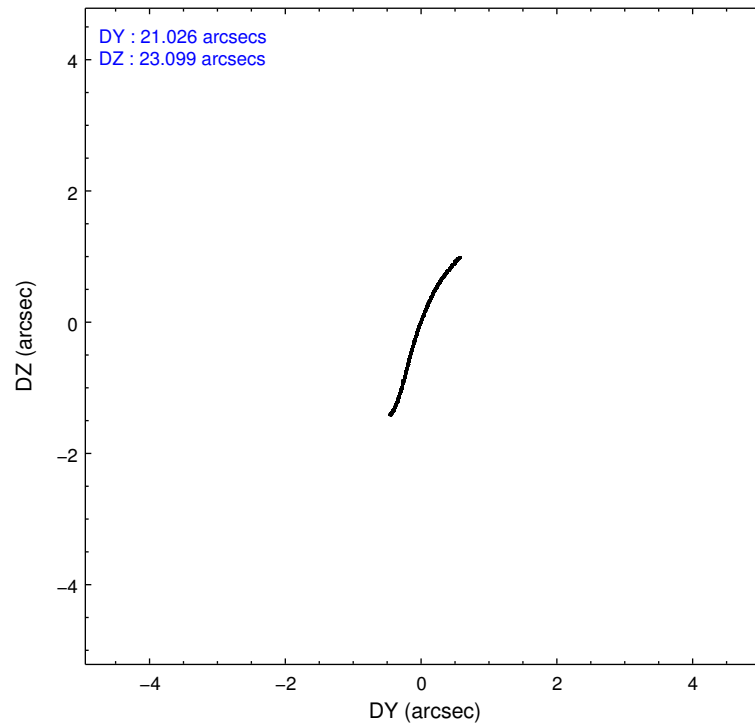
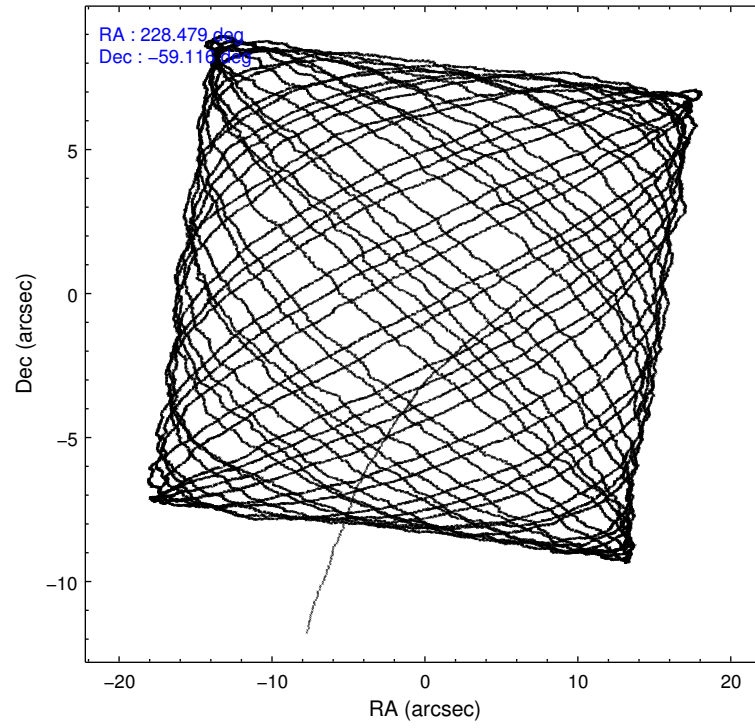
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11448	33170	58721	38258	6004
	9%	20%	29%	22%	4%
grade 1 events	98	161	361	972	65
	0%	0%	0%	0%	0%
grade 2 events	4687	8874	9759	8471	3608
	3%	5%	4%	4%	2%
grade 3 events	1758	2884	3393	3343	1601
	1%	1%	1%	1%	1%
grade 4 events	1647	2891	3338	3330	1538
	1%	1%	1%	1%	1%
grade 5 events	5430	6039	5243	7246	5982
	4%	3%	2%	4%	4%
grade 6 events	3268	5084	4247	5404	3591
	2%	3%	2%	3%	2%
grade 7 events	98406	102847	115176	106857	111458
	77%	63%	57%	61%	83%

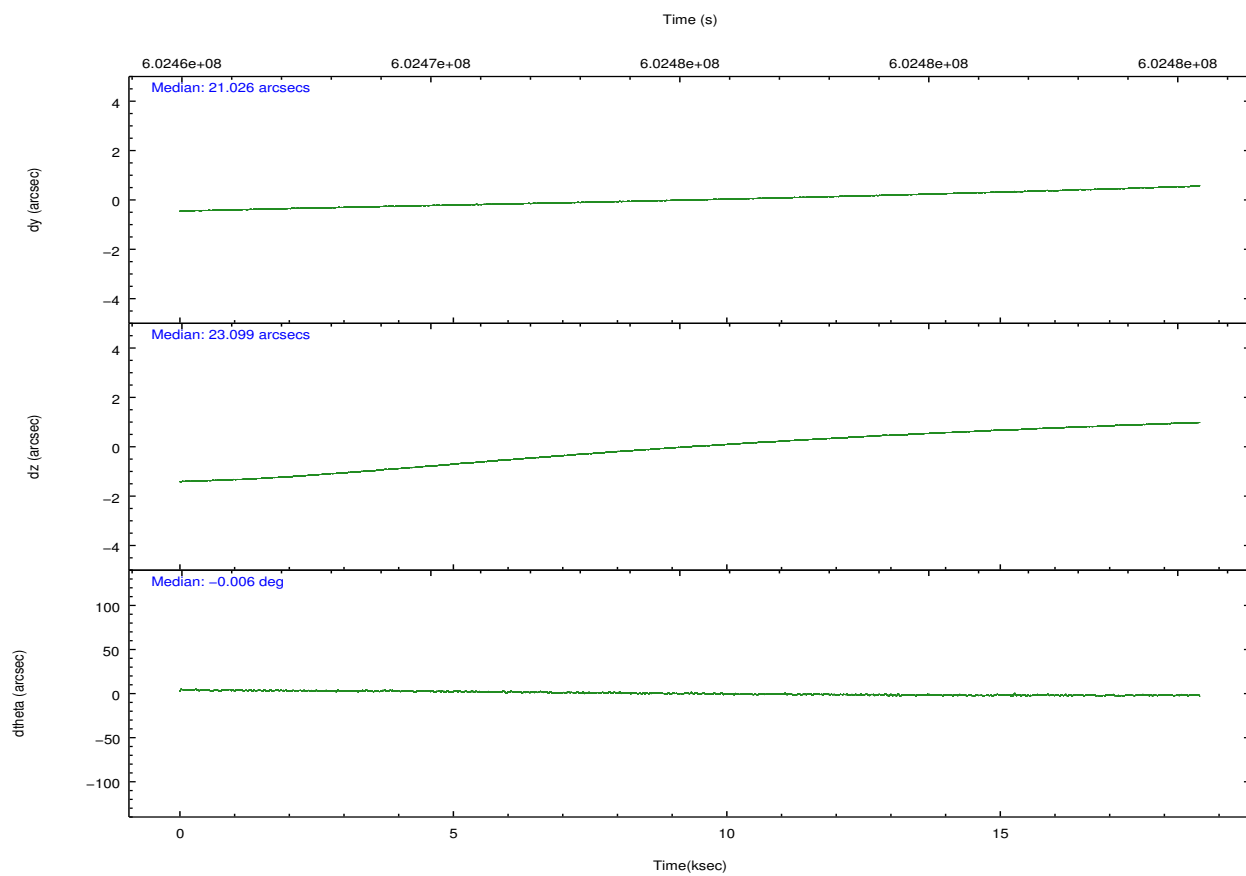
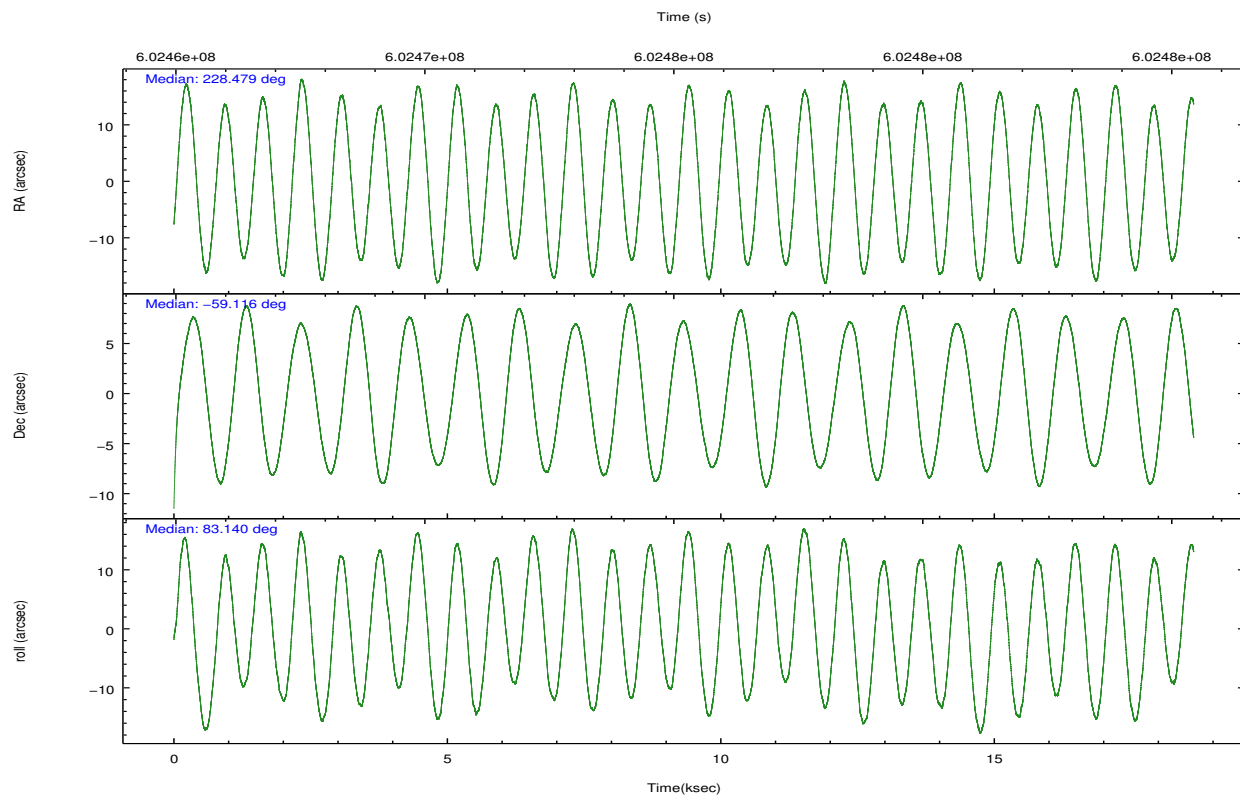
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	228.500420	228.4791370354062
[deg] Pointing Dec	-59.141012	-59.11563519895747
[deg] Pointing Roll	82.949010	83.13942397161676
[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)	602466022.184000	602464769.14082
Observation start date	2017-02-02T23:39:13	2017-02-02T23:19:29
[s] Observation end time (MET)	602484523.184000	602484756.6419801
Observation end date	2017-02-03T04:47:34	2017-02-03T04:52:36
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



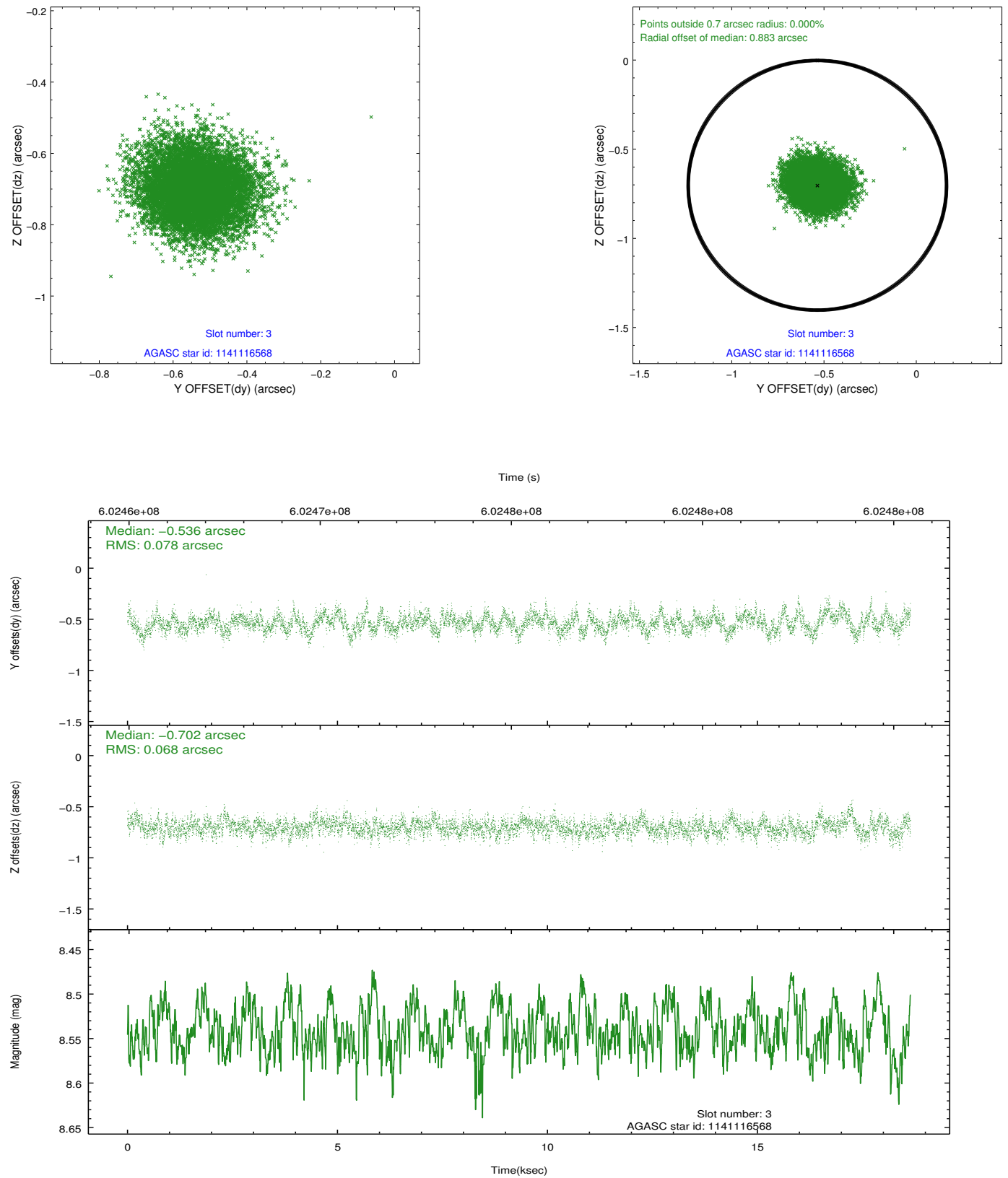


Slot Statistics

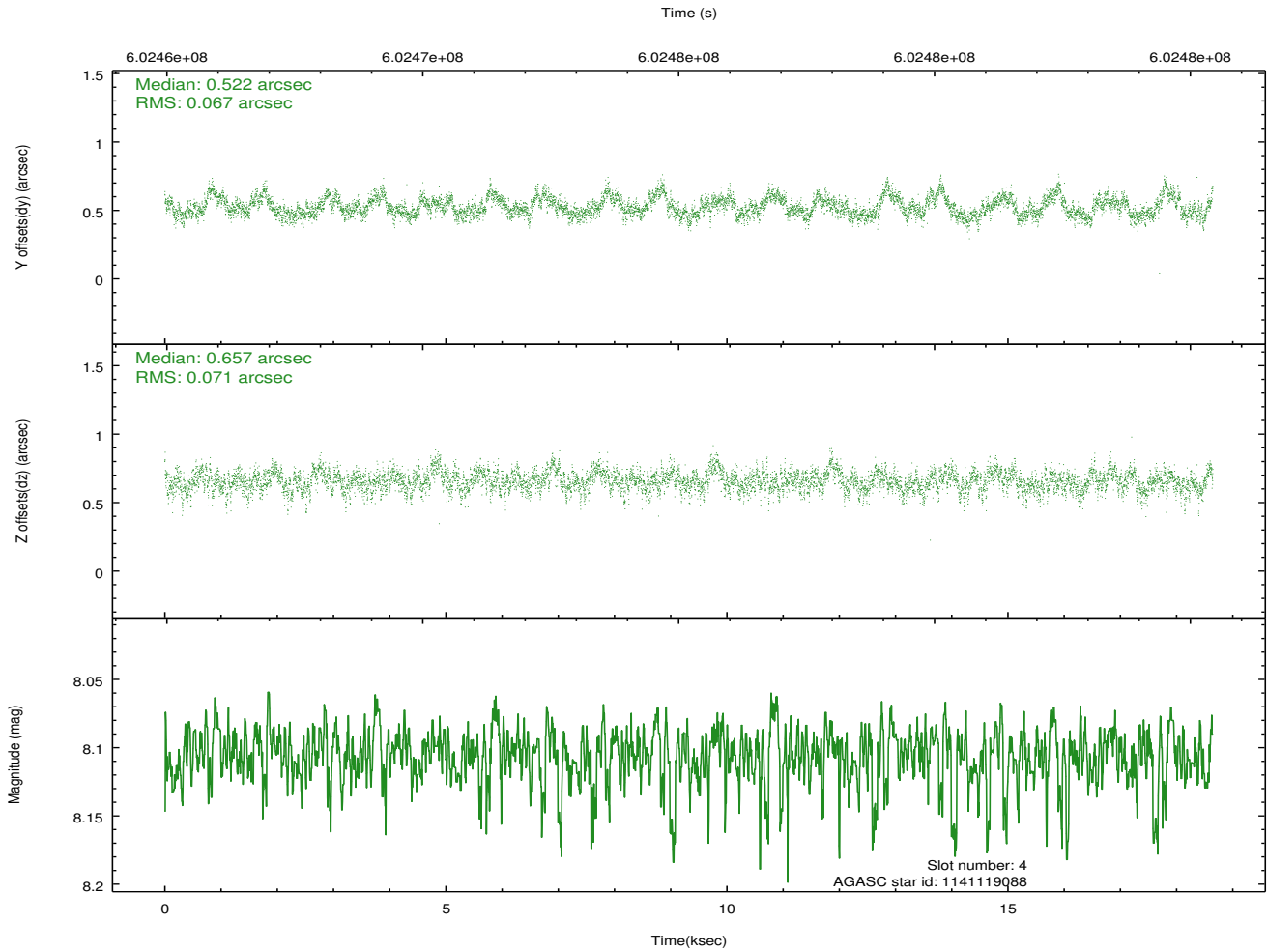
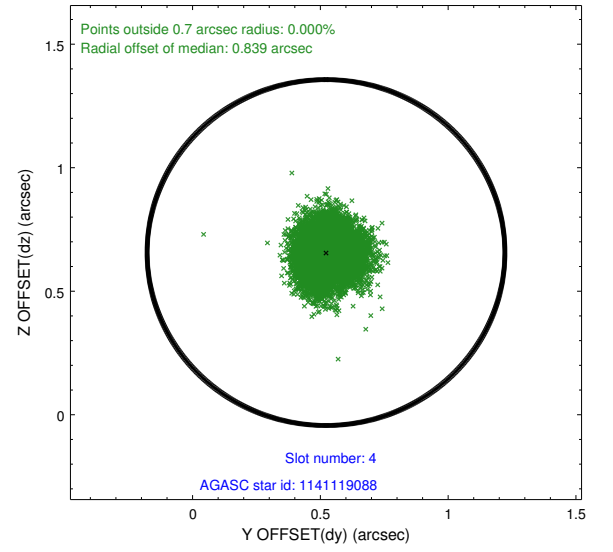
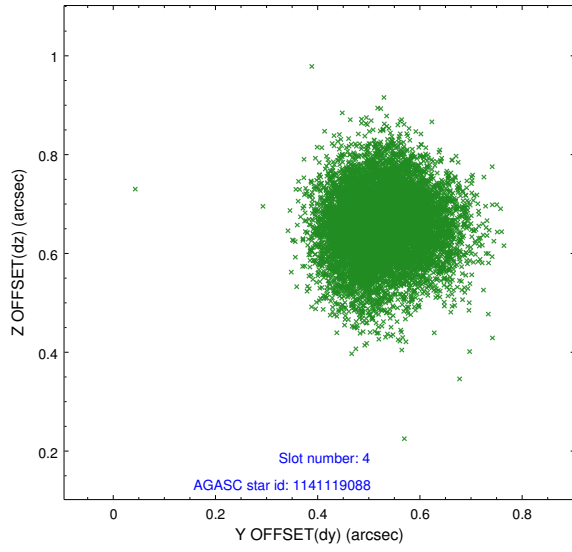
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	4548	0.067	0.008	0.027	0.063	0.000000	0.000000	918.37	-846.75
1	FID		ACIS-I-5	7.19	4549	-0.386	0.030	0.013	0.019	0.000000	0.000000	-1830.20	1050.48
2	FID		ACIS-I-6	7.21	4546	0.226	0.039	0.020	0.047	0.000000	0.000000	383.67	1695.39
3	GUIDE	used	1141116568	8.54	9086	-0.536	-0.702	0.111	0.178	228.578452	-58.520066	2236.21	128.38
4	GUIDE	used	1141119088	8.10	9092	0.522	0.657	0.103	0.165	229.638476	-59.667928	-1645.10	-2287.43
5	GUIDE	used	1141119896	8.36	9094	0.450	0.457	0.096	0.168	229.637327	-59.405643	-707.01	-2186.07
6	GUIDE	used	1141121072	9.03	9090	-0.105	-0.242	0.160	0.251	227.898628	-59.420815	-1140.43	970.10
7	GUIDE	used	1141120488	8.74	9090	-0.341	-0.164	0.105	0.169	228.236450	-59.504731	-1359.78	317.97

2.4 Star Slots

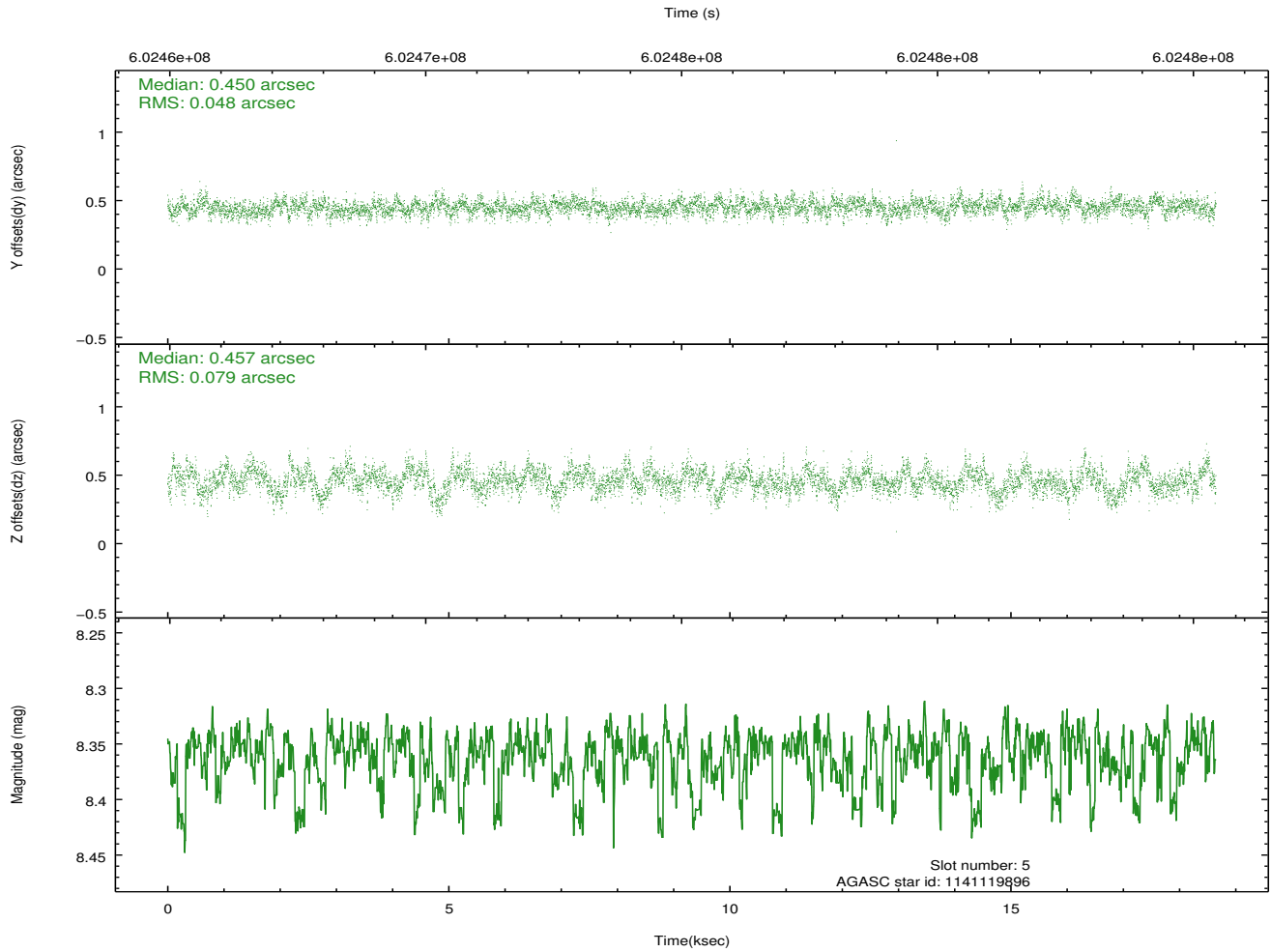
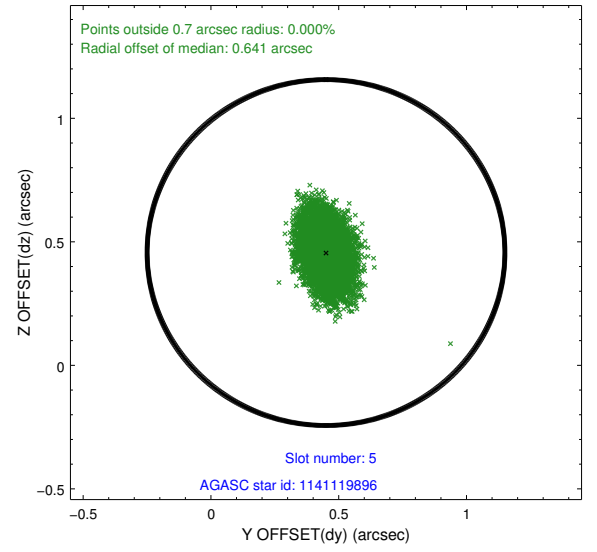
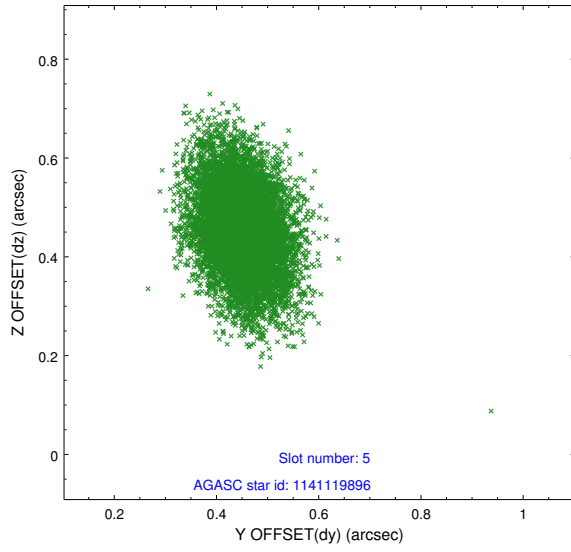
2.4.1 Slot 3



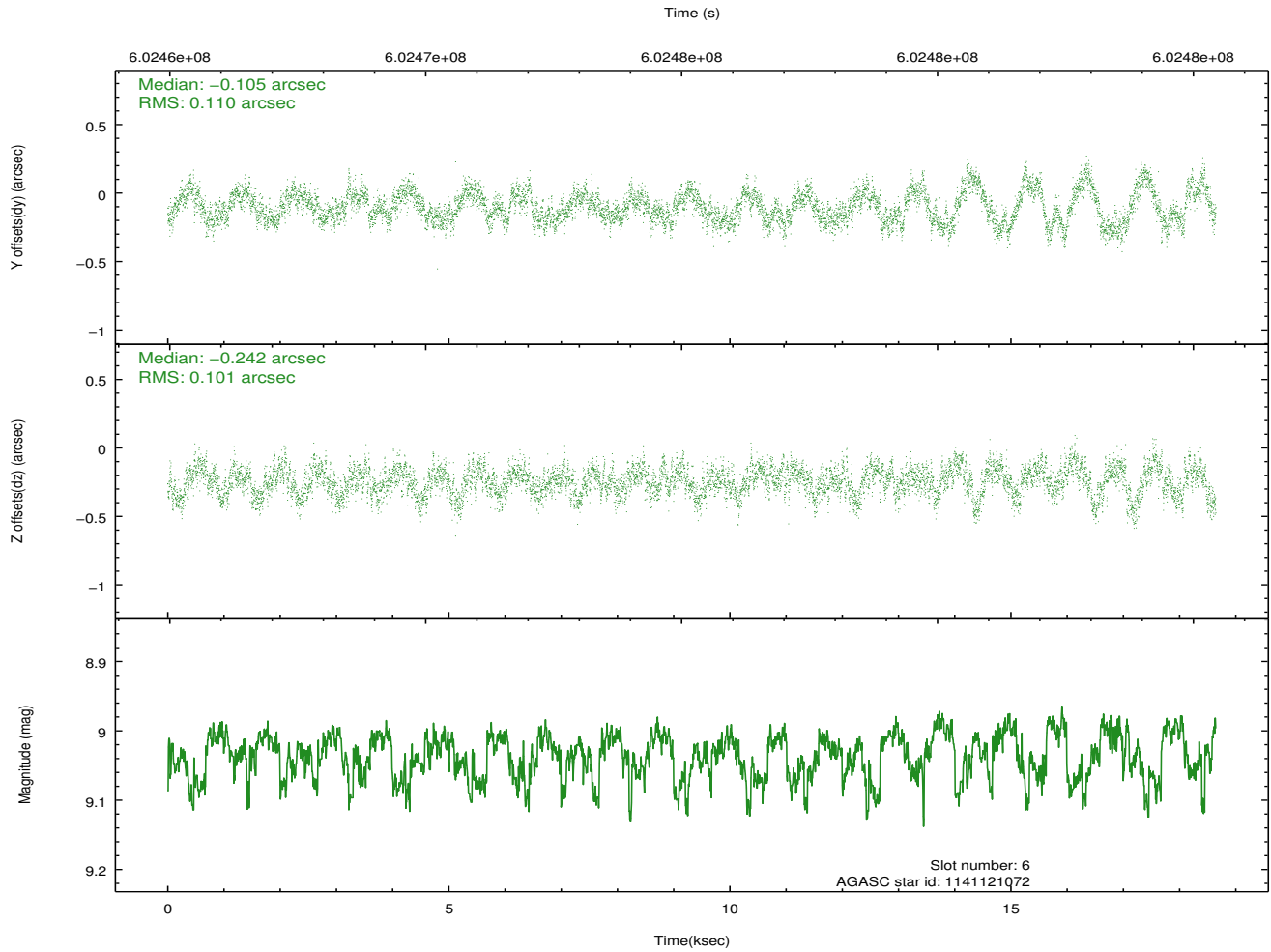
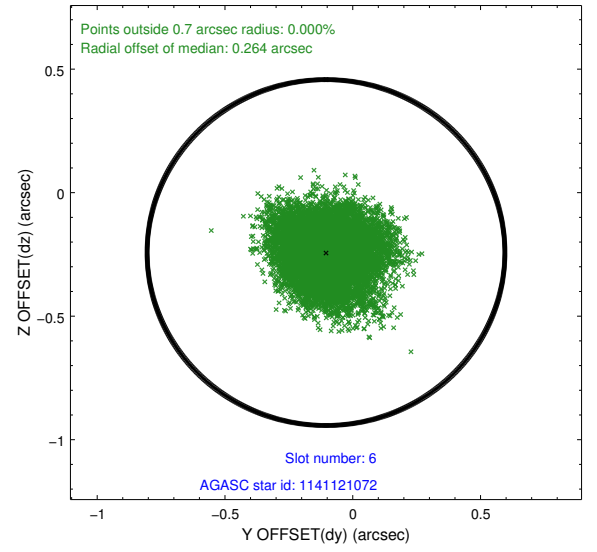
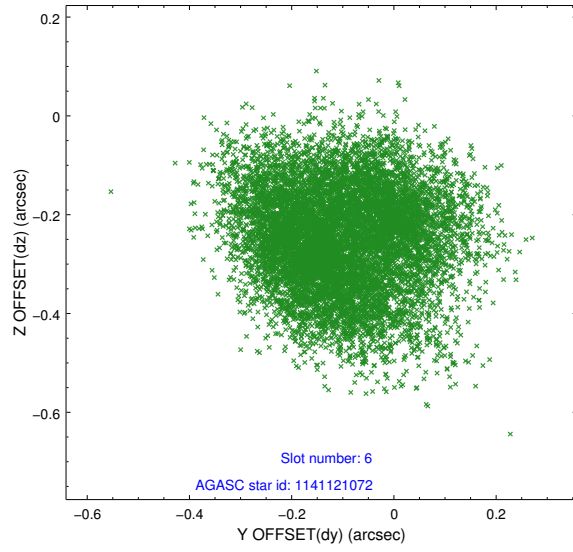
2.4.2 Slot 4



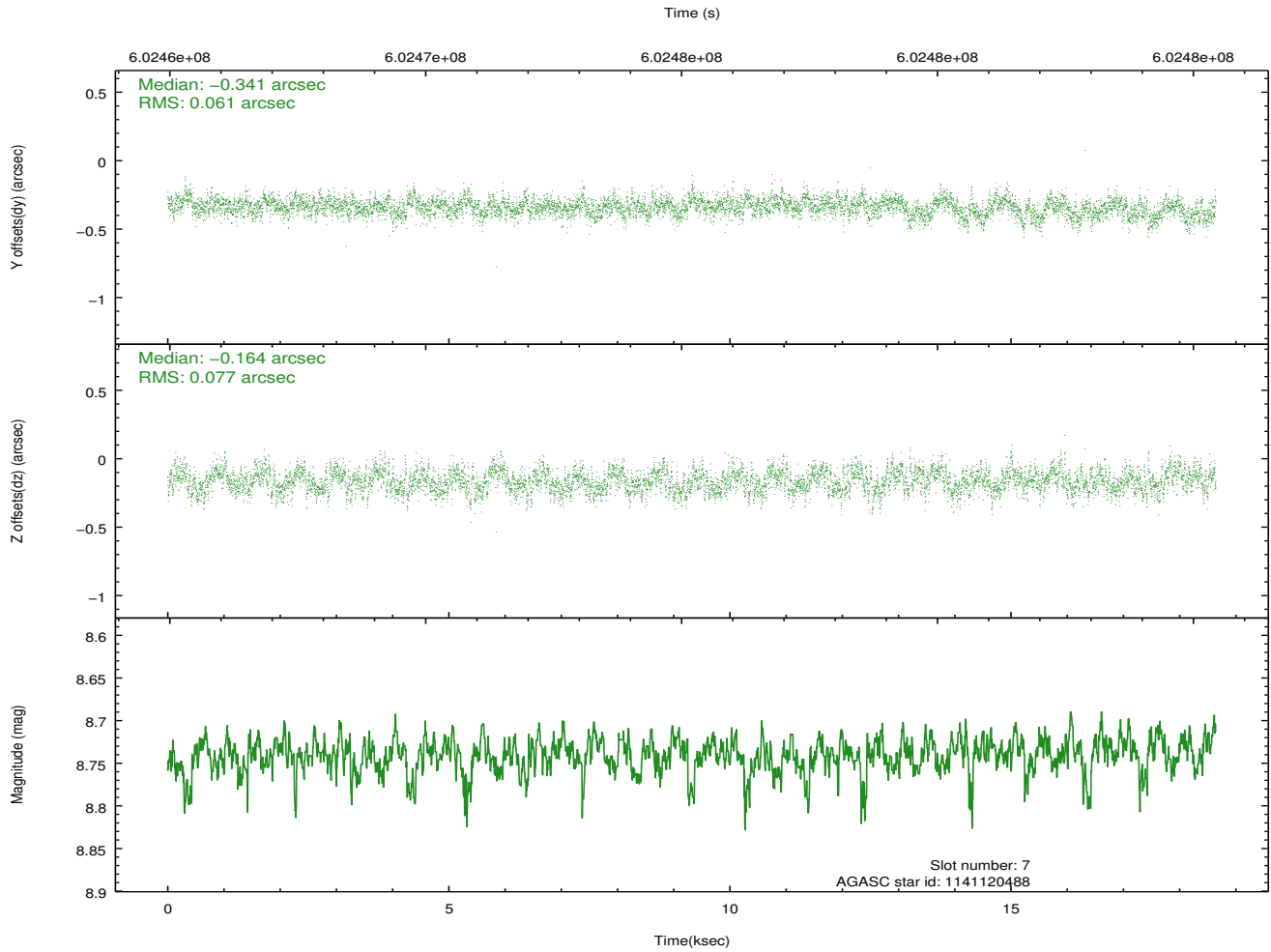
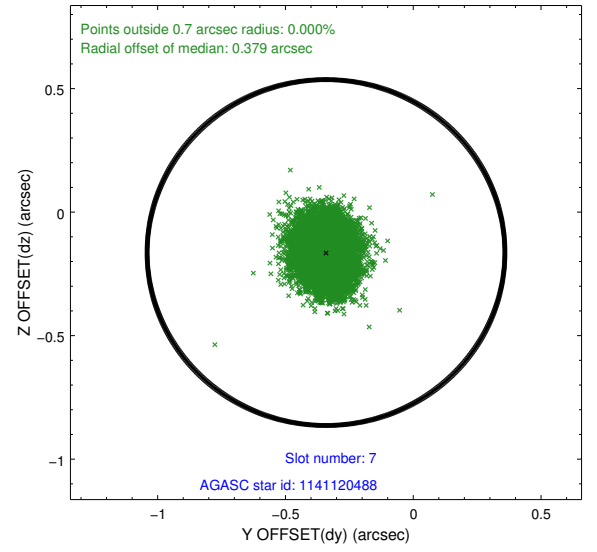
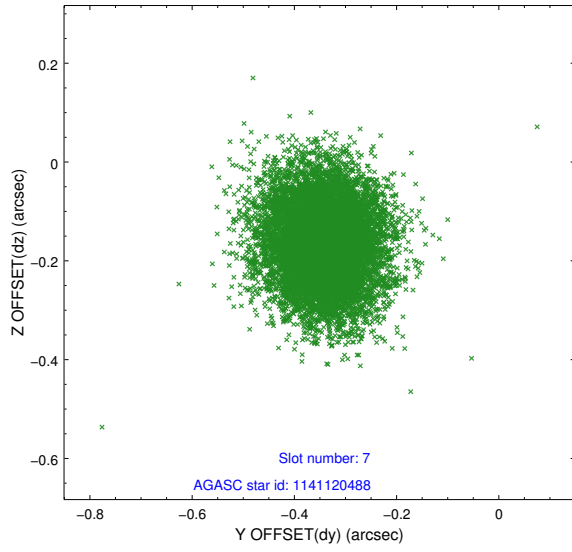
2.4.3 Slot 5



2.4.4 Slot 6

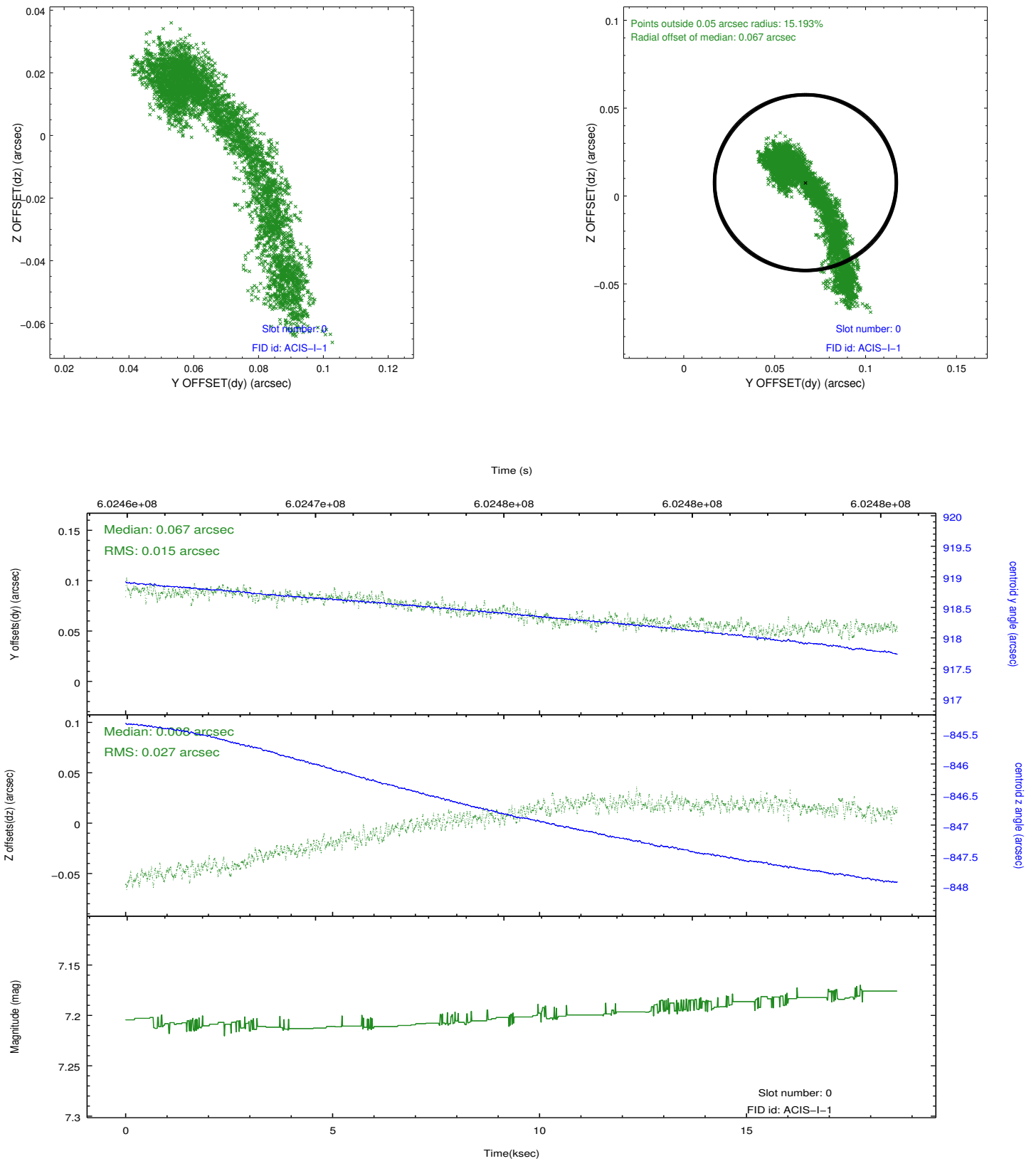


2.4.5 Slot 7

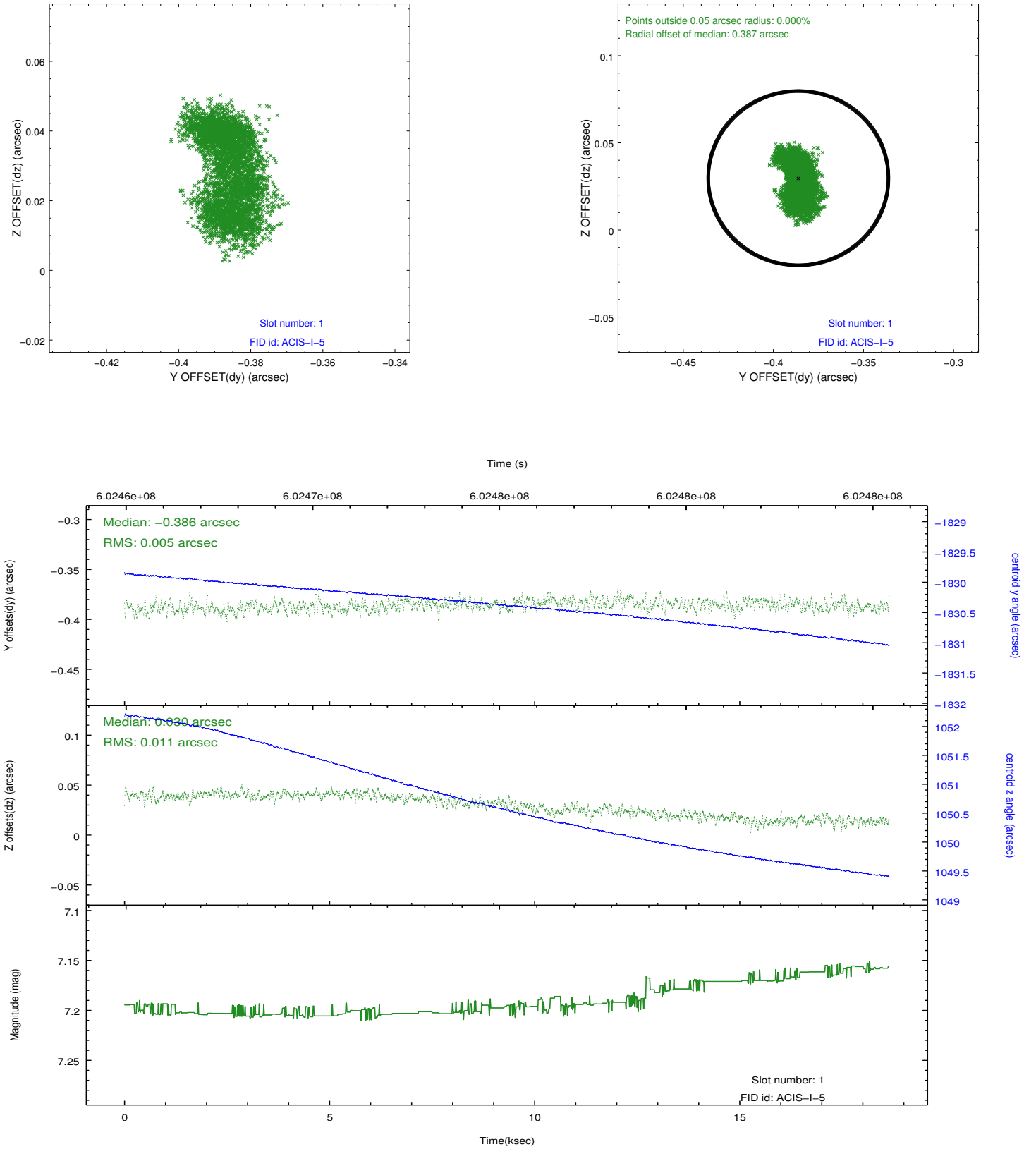


2.5 FID Slots

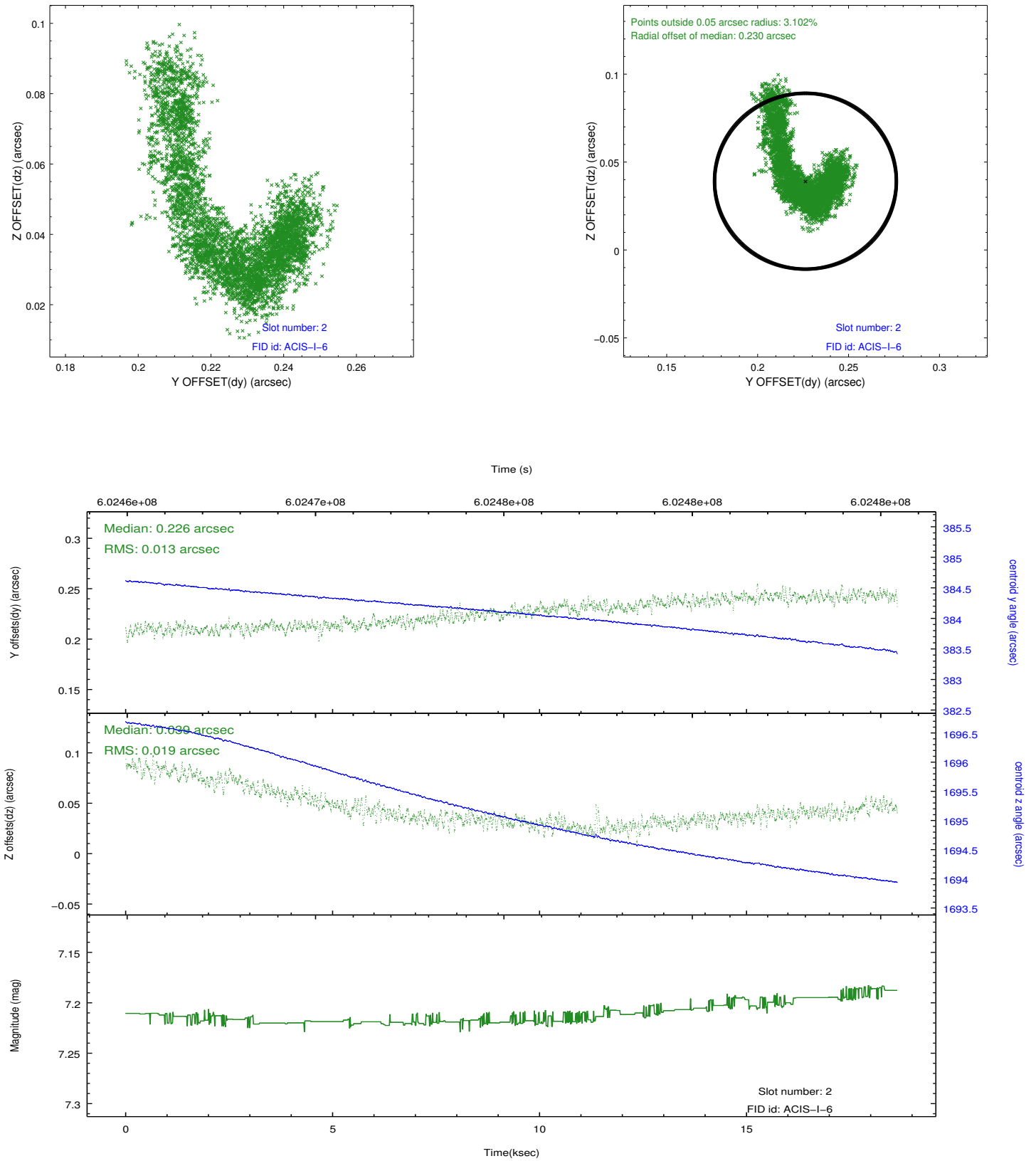
2.5.1 Slot 0



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)	2017.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.562800142884

A.2 Comments

Joint Proposal: HST