

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22683 - L2 Version 1
Chandra X-Ray Center

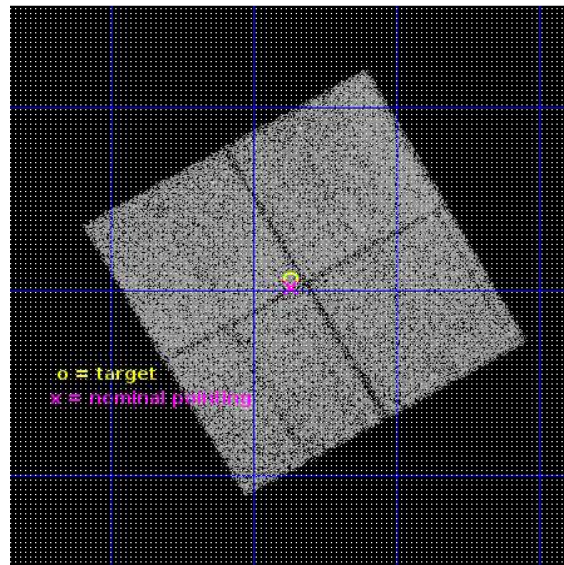
L2 Processing Date : Aug 17 2019

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

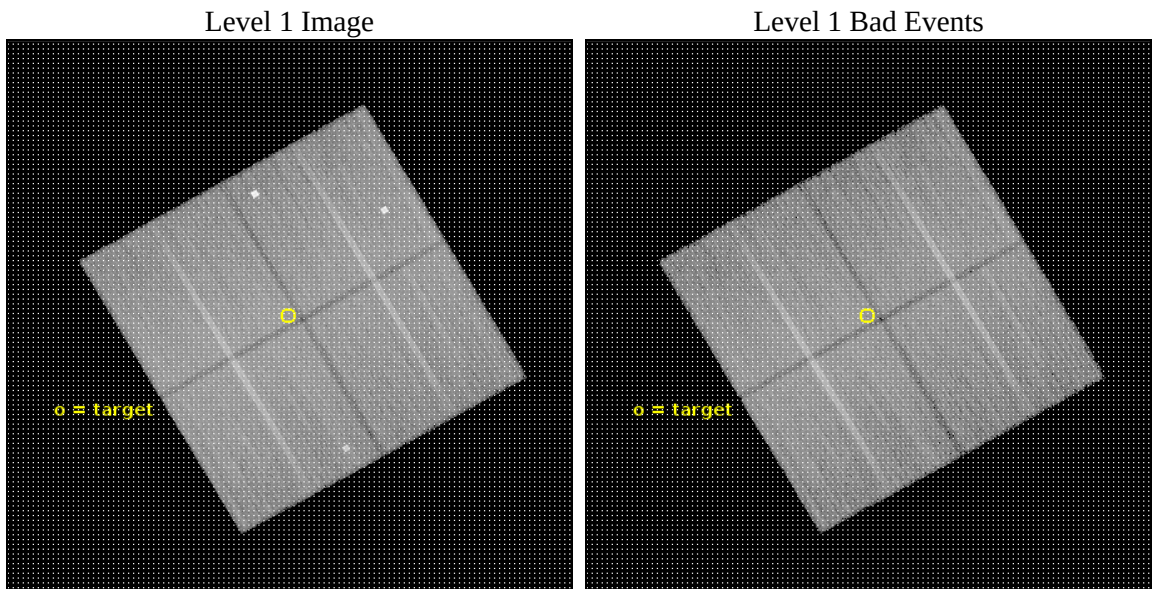
seq_num	402058	Sequence number
obs_id	22683	Observation id
title	Resolving the terminal shock driven by the jet from a microquasar SS433 at the eastern ear of W50	Proposal title
observer	Shinya Yamada	Principal investigator
object	SS433-W50 (eastern ear)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.967083	Observer's specified target RA [deg]
dec_targ	4.843111	Observer's specified target Dec [deg]
ra_nom	288.96696734887	Nominal RA [deg]
dec_nom	4.836297314689	Nominal Dec [deg]
roll_nom	240.20869059124	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45077.059266567	Sum of GTIs [s]
livetime	44488.094302001	Livetime [s]
ontime0	45076.957793355	Sum of GTIs [s]
ontime1	45070.716723204	Sum of GTIs [s]
ontime2	45077.039863348	Sum of GTIs [s]
ontime3	45077.059266567	Sum of GTIs [s]
l2events	130569	Number of level 2 events



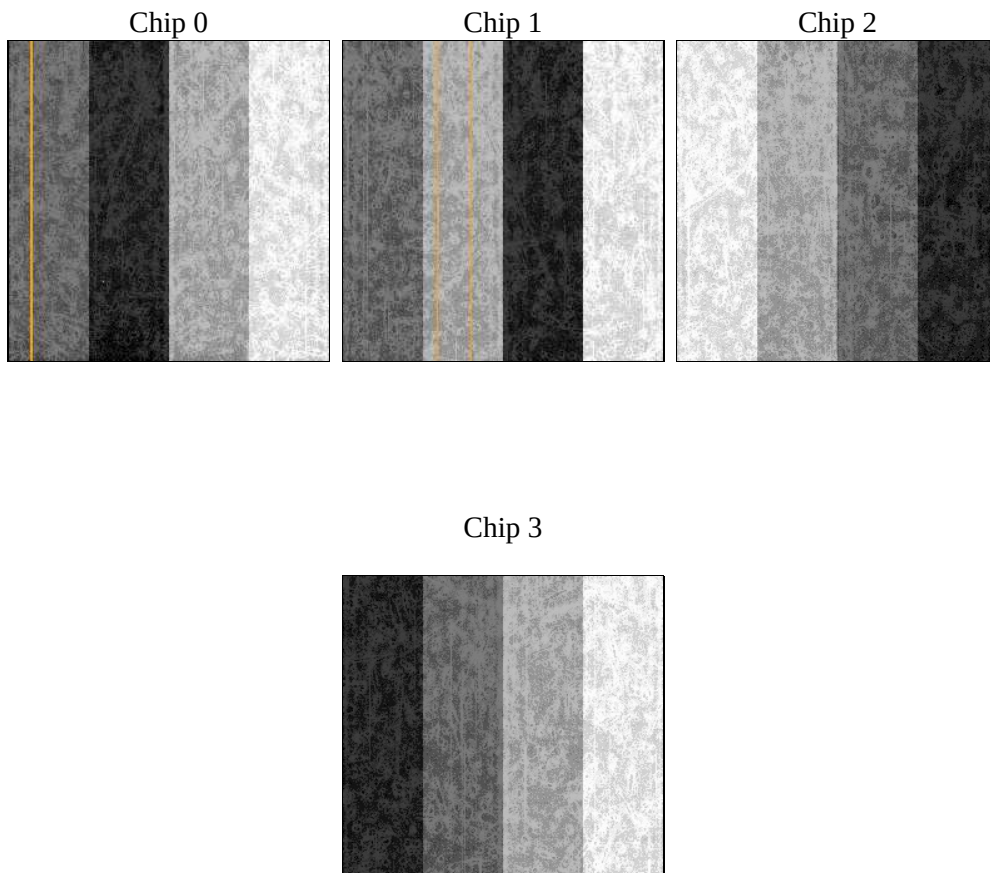
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	45077.059266567	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	45076.957793355	Sum of GTIs [s]
date	2019-08-17T04:49:37	Date and time of file creation	ontime1	45070.716723204	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	45077.039863348	Sum of GTIs [s]
			ontime3	45077.059266567	Sum of GTIs [s]
			l1events	1382546	Number of level 1 events

2.1.4 Events

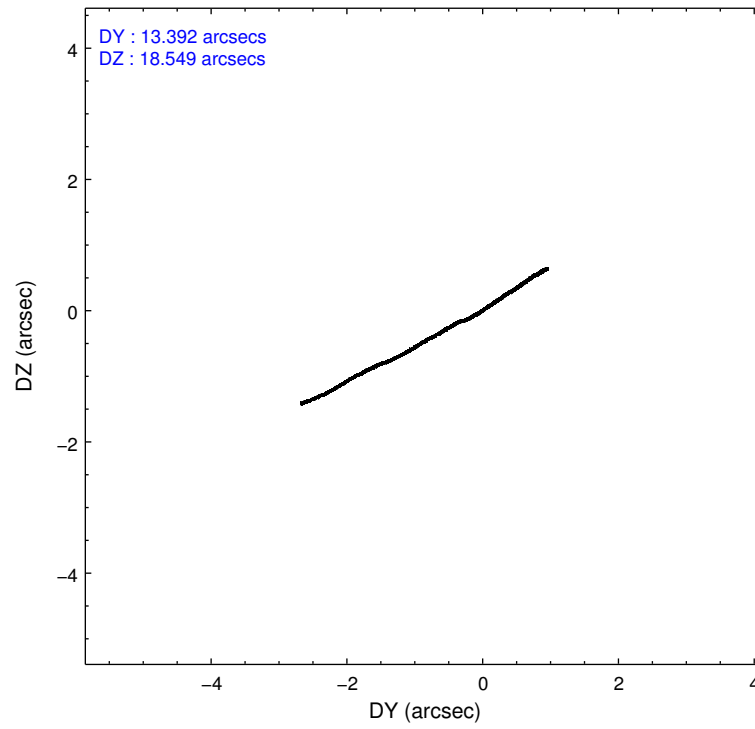
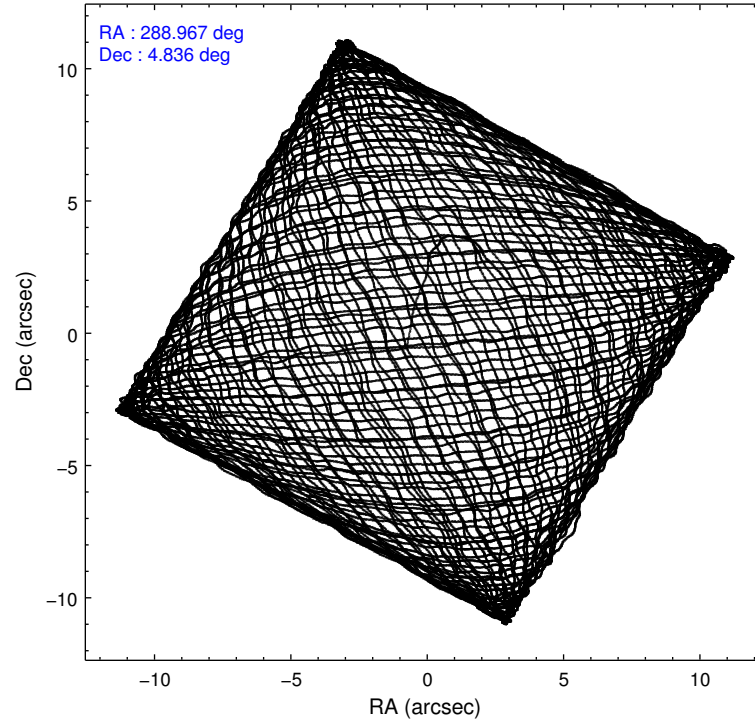
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	322374	359491	353280	347401
rejected events	283512	293787	312531	311063
rejected %	87%	81%	88%	89%

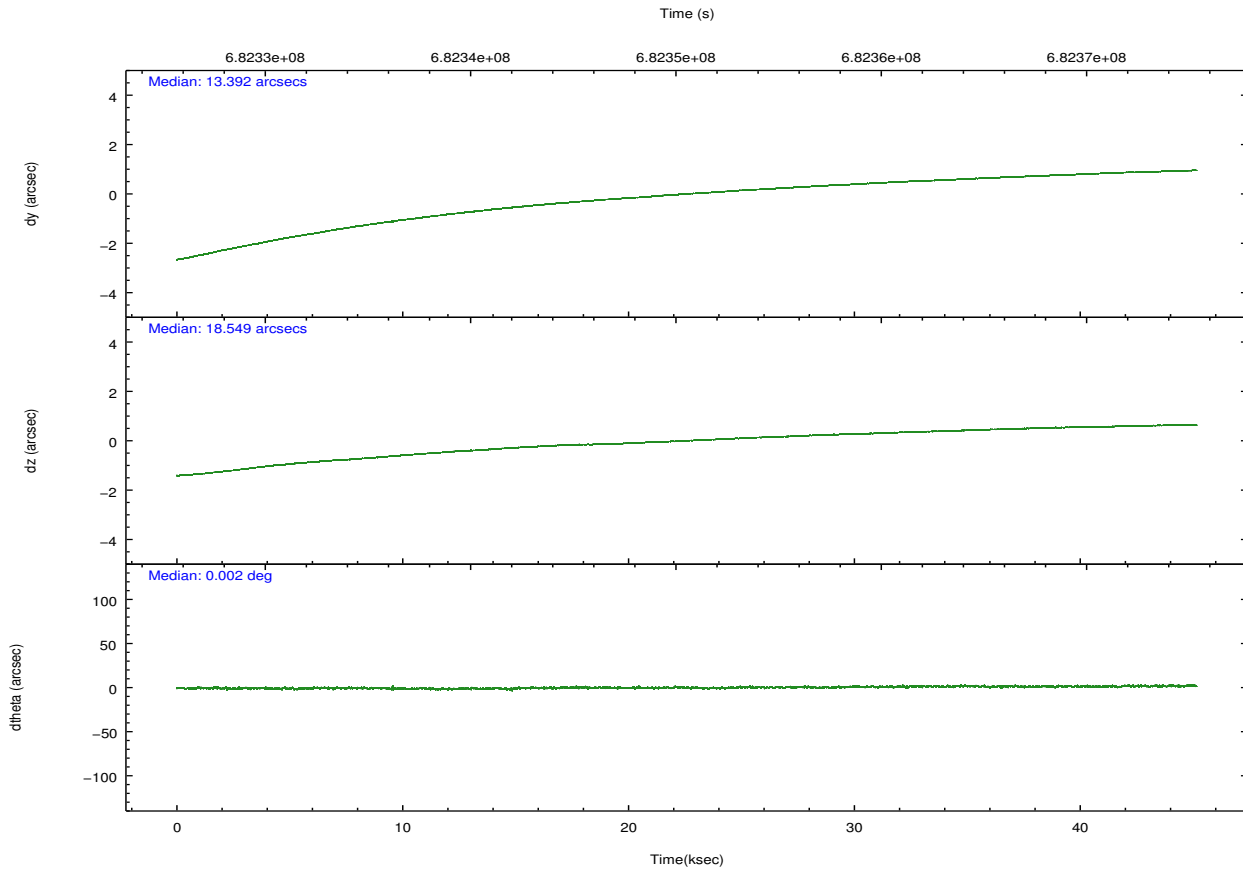
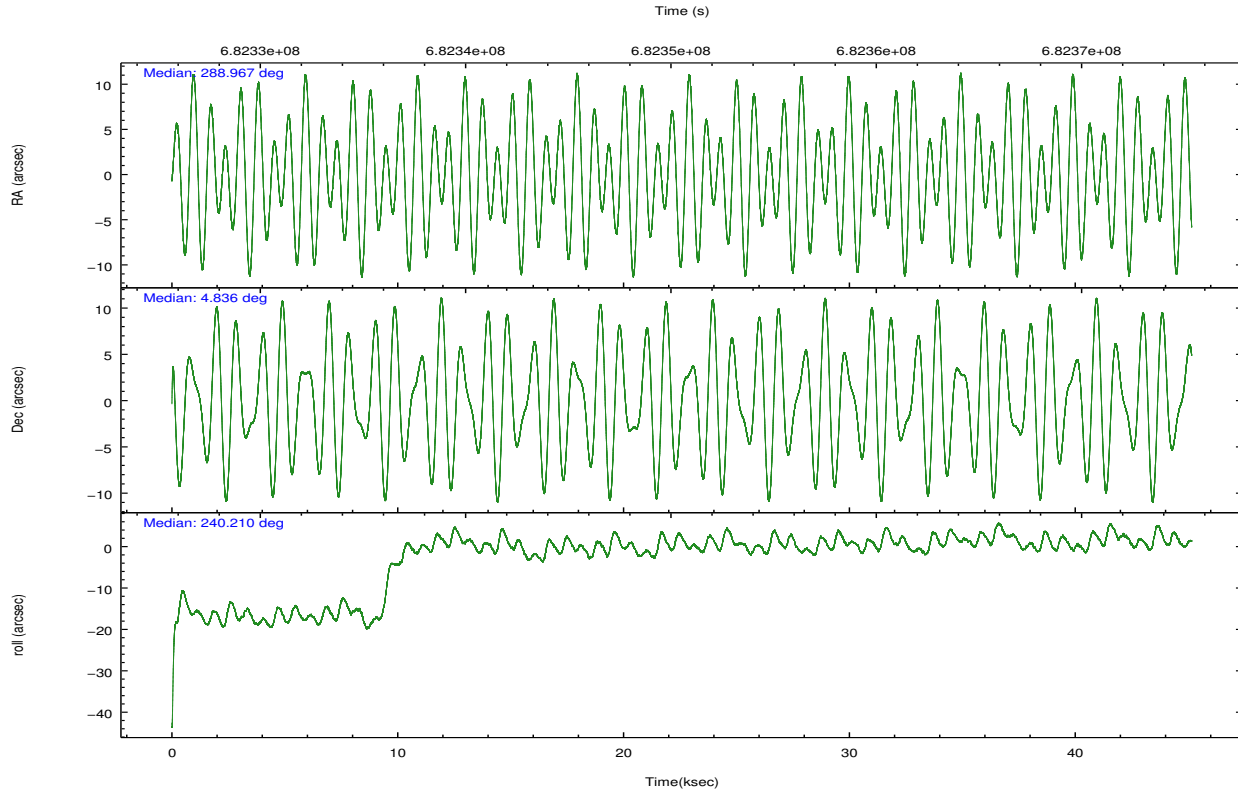
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	13339	36556	17326	12873
	4%	10%	4%	3%
grade 1 events	170	292	216	167
	0%	0%	0%	0%
grade 2 events	9833	11516	8730	8039
	3%	3%	2%	2%
grade 3 events	3622	3547	3622	3745
	1%	0%	1%	1%
grade 4 events	3394	3520	3604	3668
	1%	0%	1%	1%
grade 5 events	13724	13976	13148	15574
	4%	3%	3%	4%
grade 6 events	8674	10569	7469	8018
	2%	2%	2%	2%
grade 7 events	269618	279515	299165	295317
	83%	77%	84%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	288.966759	288.966967348867	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.863901	4.836297314689038	Alternating exposures requested	N	N
[deg] Pointing Roll	240.000030	240.2086905912445	[s] Primary exposure time	0.000000	3.1
[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)	682328114.184000	682327172.31341			
Observation start date	2019-08-16T07:34:05	2019-08-16T07:19:32			
[s] Observation end time (MET)	682373114.184000	682373744.21621			
Observation end date	2019-08-16T20:04:05	2019-08-16T20:15:44			
Read mode	TIMED	TIMED			

2.3 Aspect



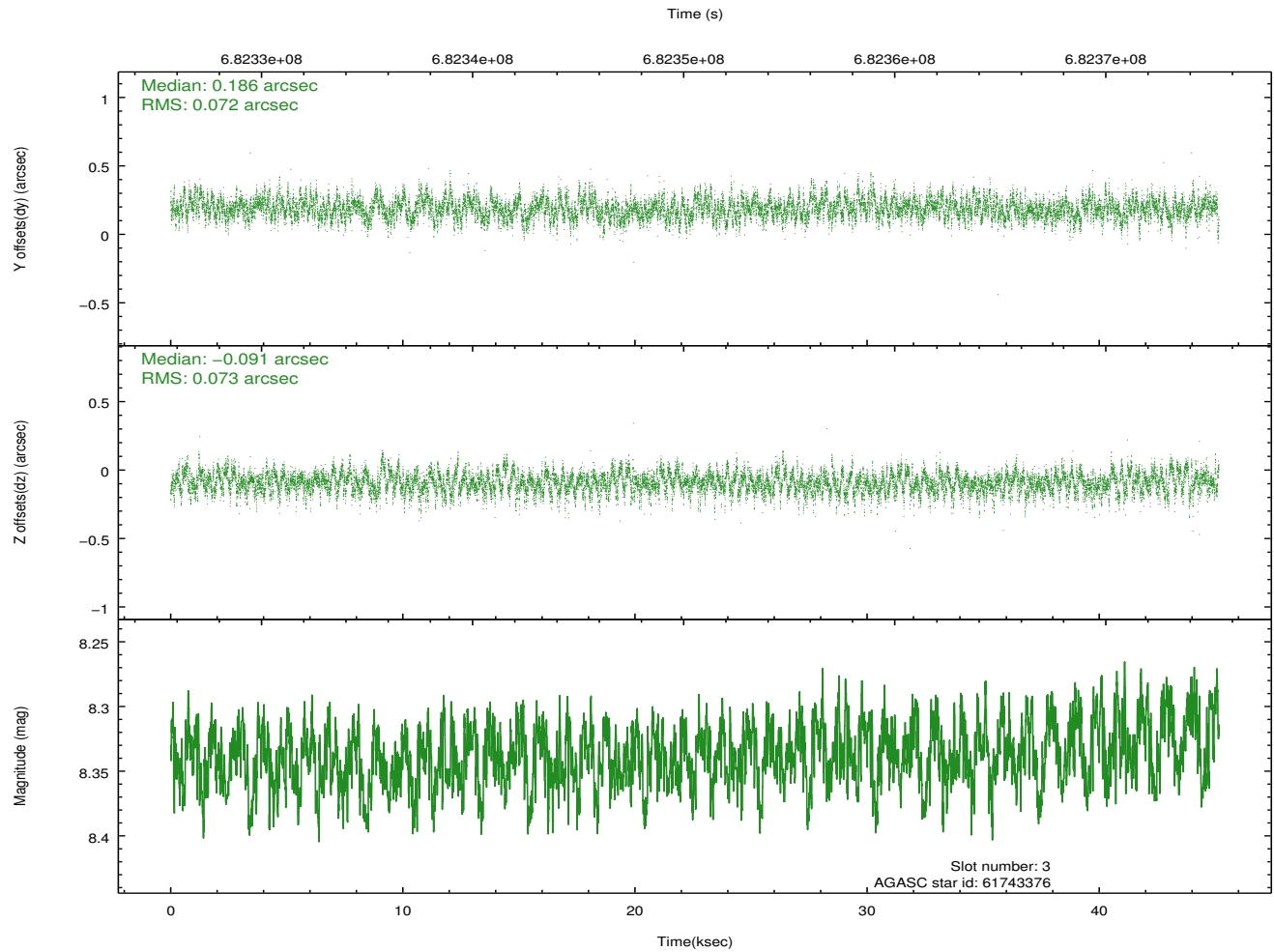
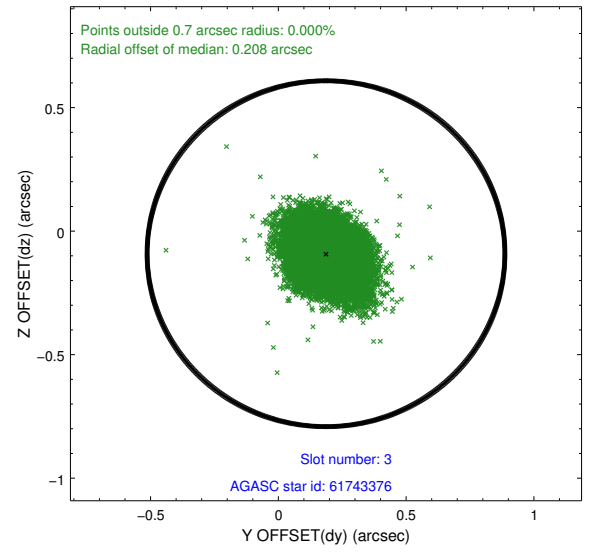
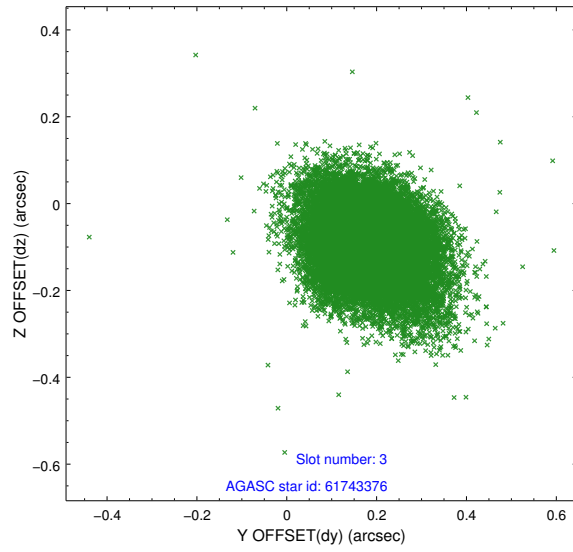


Slot Statistics

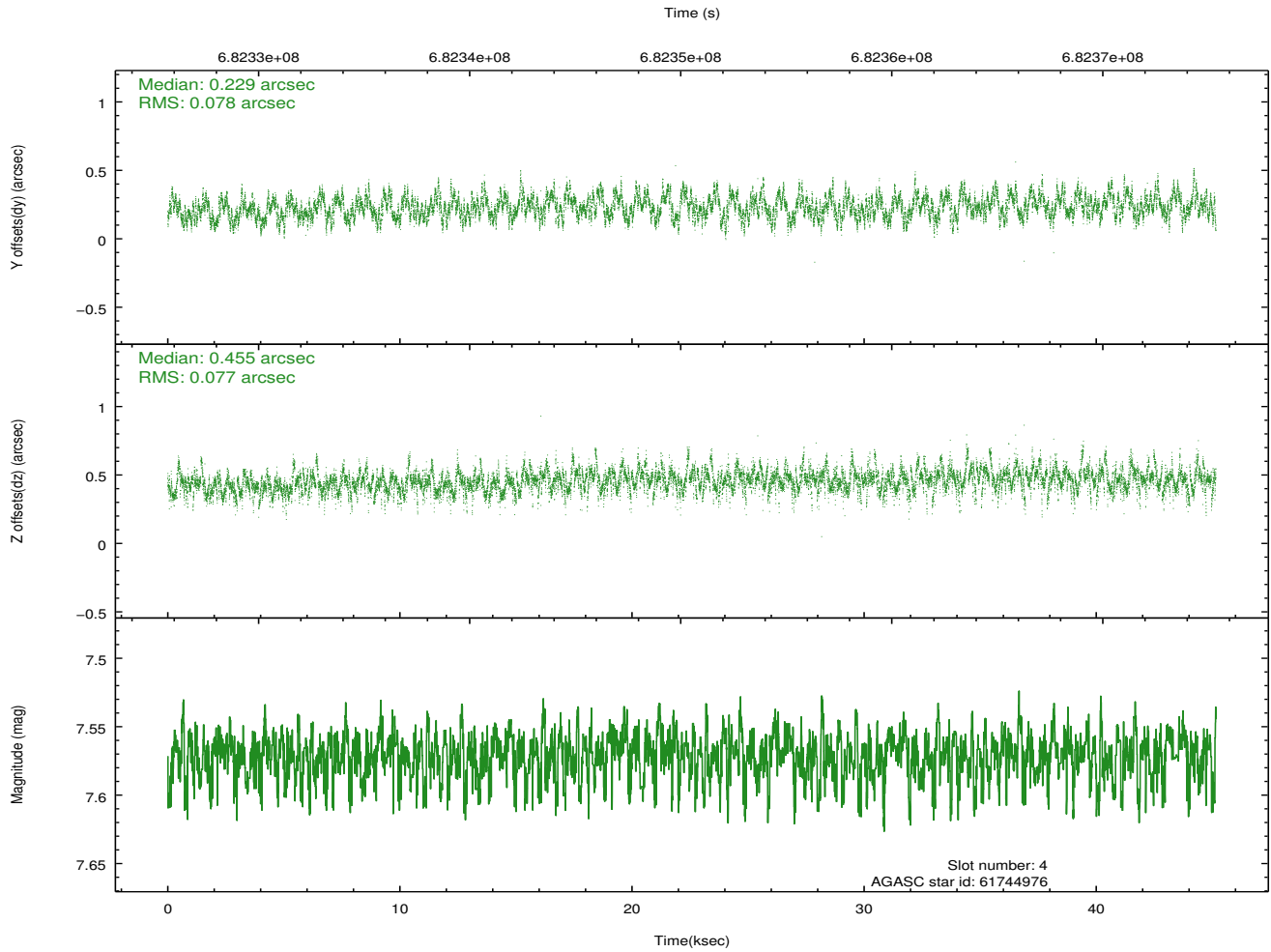
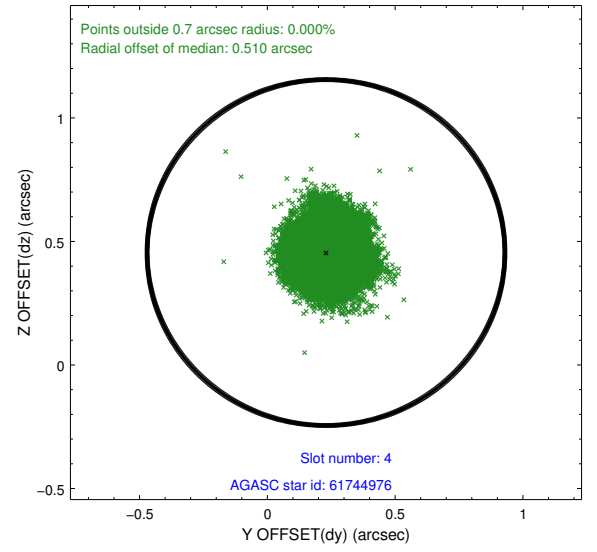
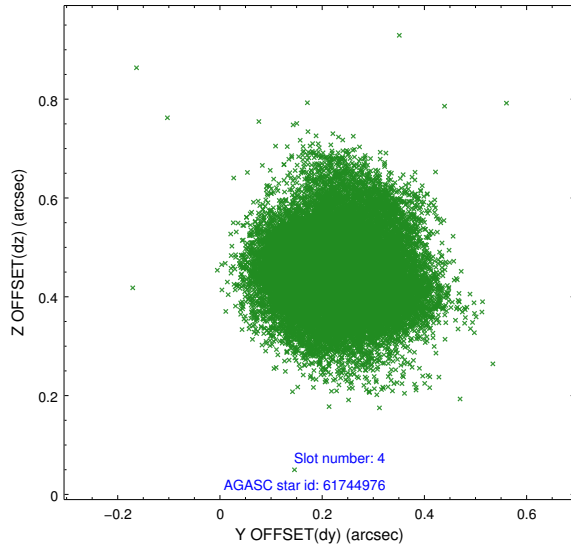
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	11011	1.000	0.131	-0.080	0.012	0.035	0.000000	0.000000	926.45 -842
1	FID		ACIS-I-3	7.48	11014	1.000	-0.147	0.126	0.011	0.024	0.000000	0.000000	43.66 -975
2	FID		ACIS-I-6	7.25	11013	1.000	-0.073	0.020	0.012	0.057	0.000000	0.000000	392.12 1699
3	GUIDE	used	61743376	8.34	22017	1.000	0.186	-0.091	0.108	0.180	288.690993	4.620047	1255.53 -417
4	GUIDE	used	61744976	7.57	22017	1.000	0.229	0.455	0.118	0.185	288.430364	5.306675	-419.15 -2461
5	GUIDE	used	61867344	8.63	22008	1.000	-0.178	0.035	0.131	0.213	289.421608	4.970198	-1147.61 1221
6	GUIDE	used	61884904	7.32	22024	1.000	-0.175	-0.041	0.105	0.176	289.597127	5.131045	-1964.77 1477
7	GUIDE	used	61746744	8.52	22012	1.000	-0.062	-0.354	0.096	0.160	288.662479	4.255976	2441.74 148

2.4 Star Slots

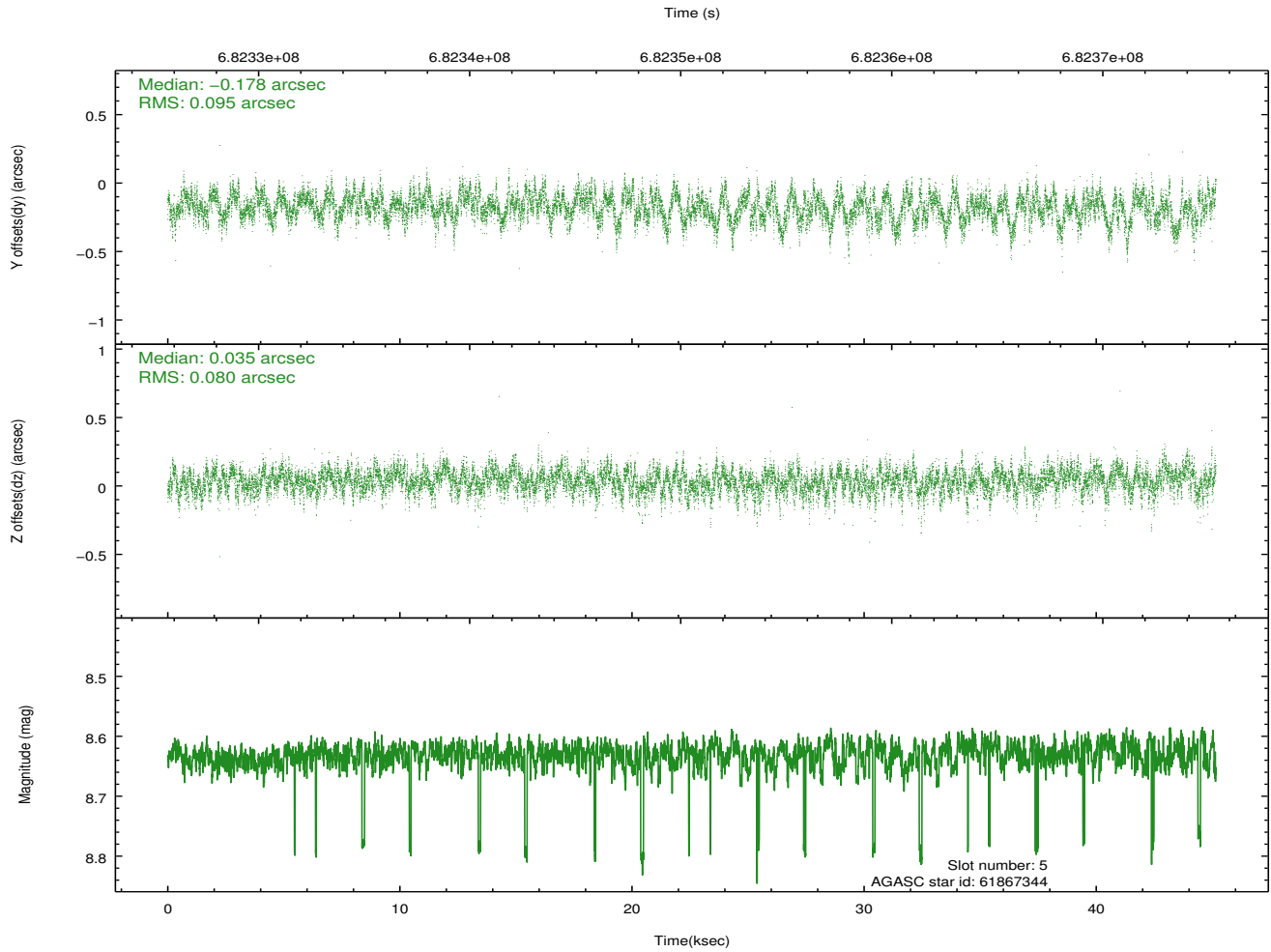
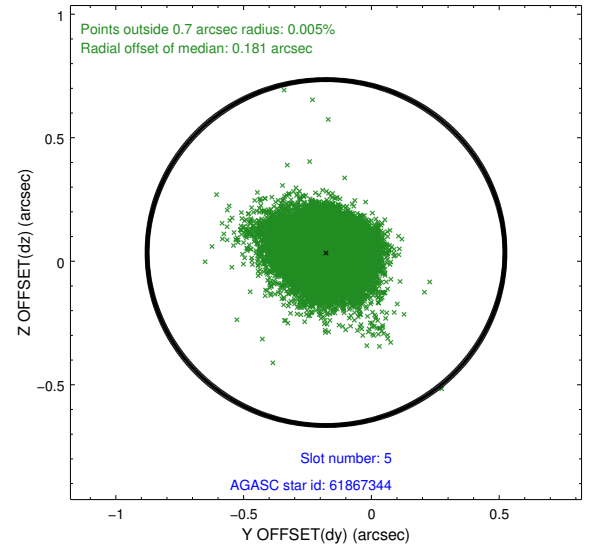
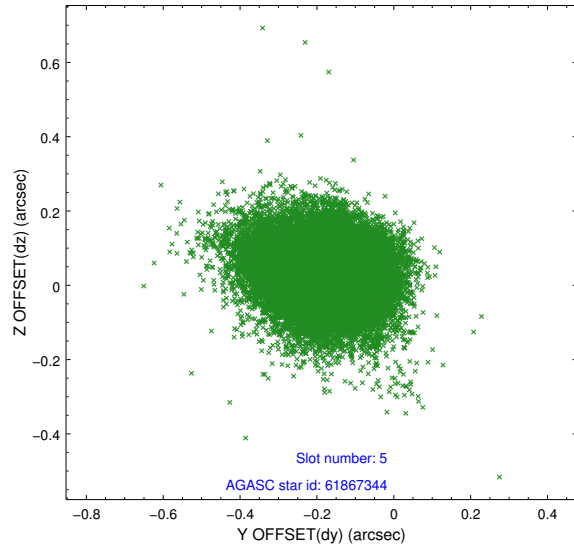
2.4.1 Slot 3



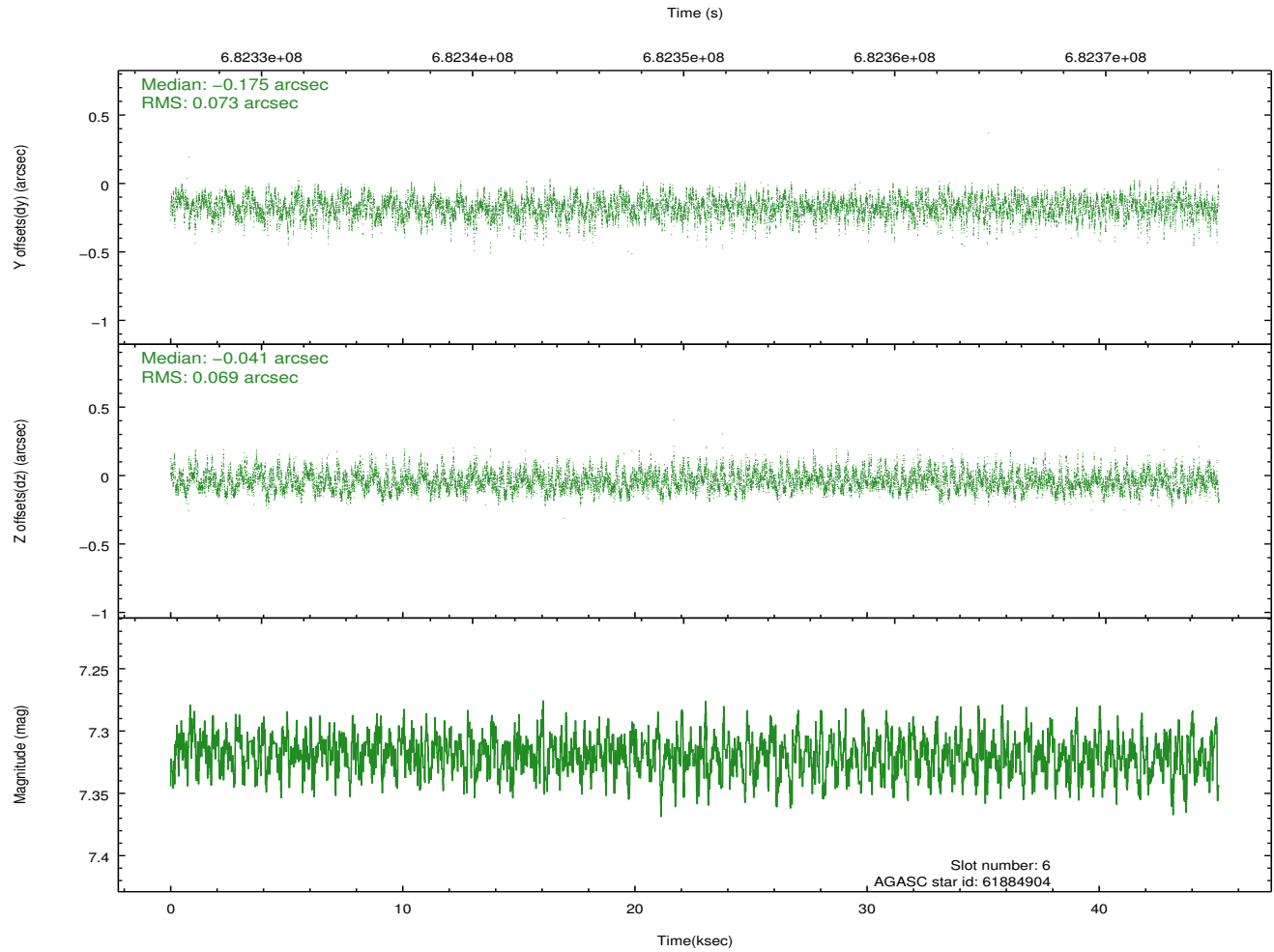
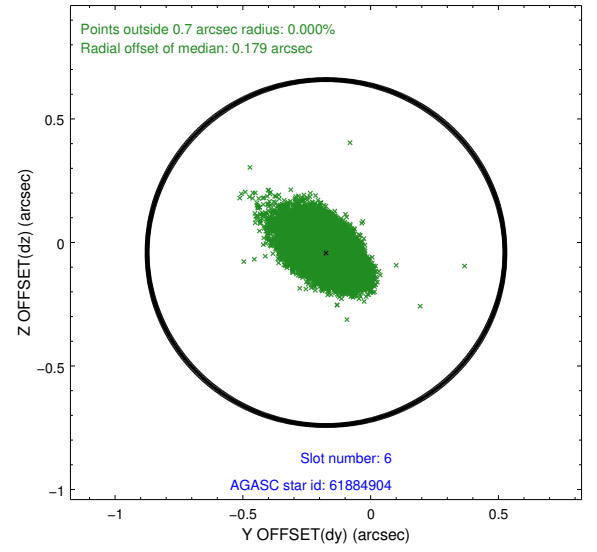
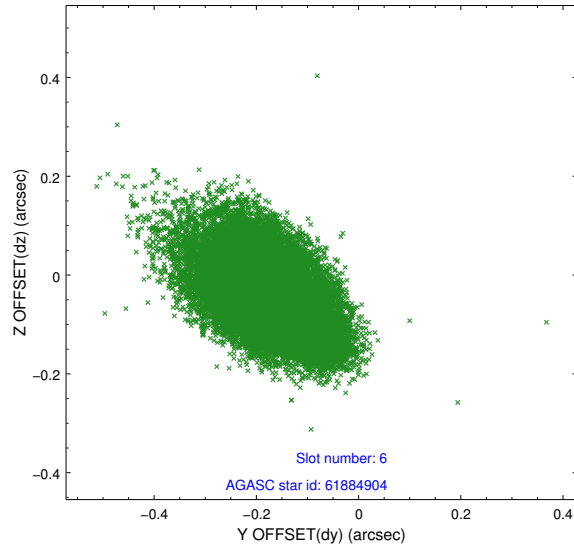
2.4.2 Slot 4



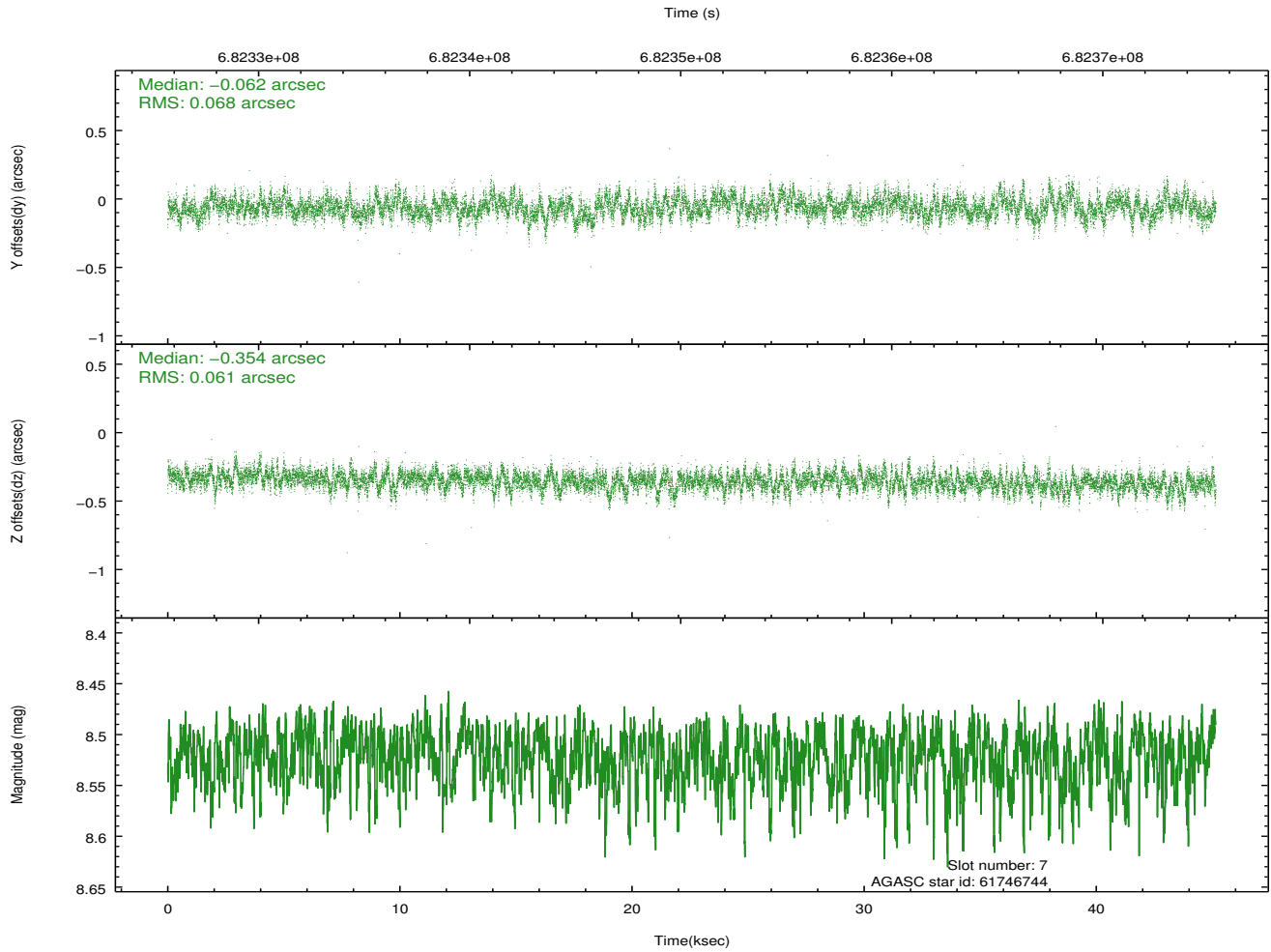
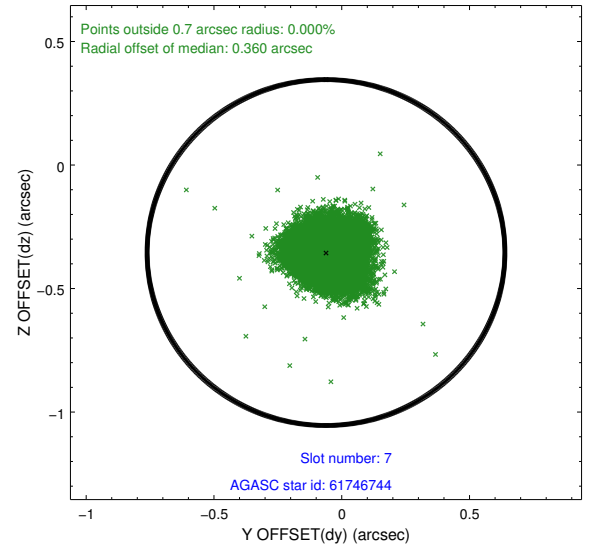
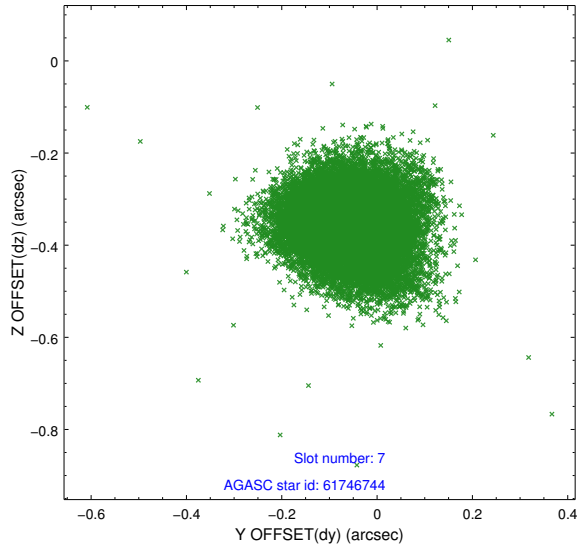
2.4.3 Slot 5



2.4.4 Slot 6

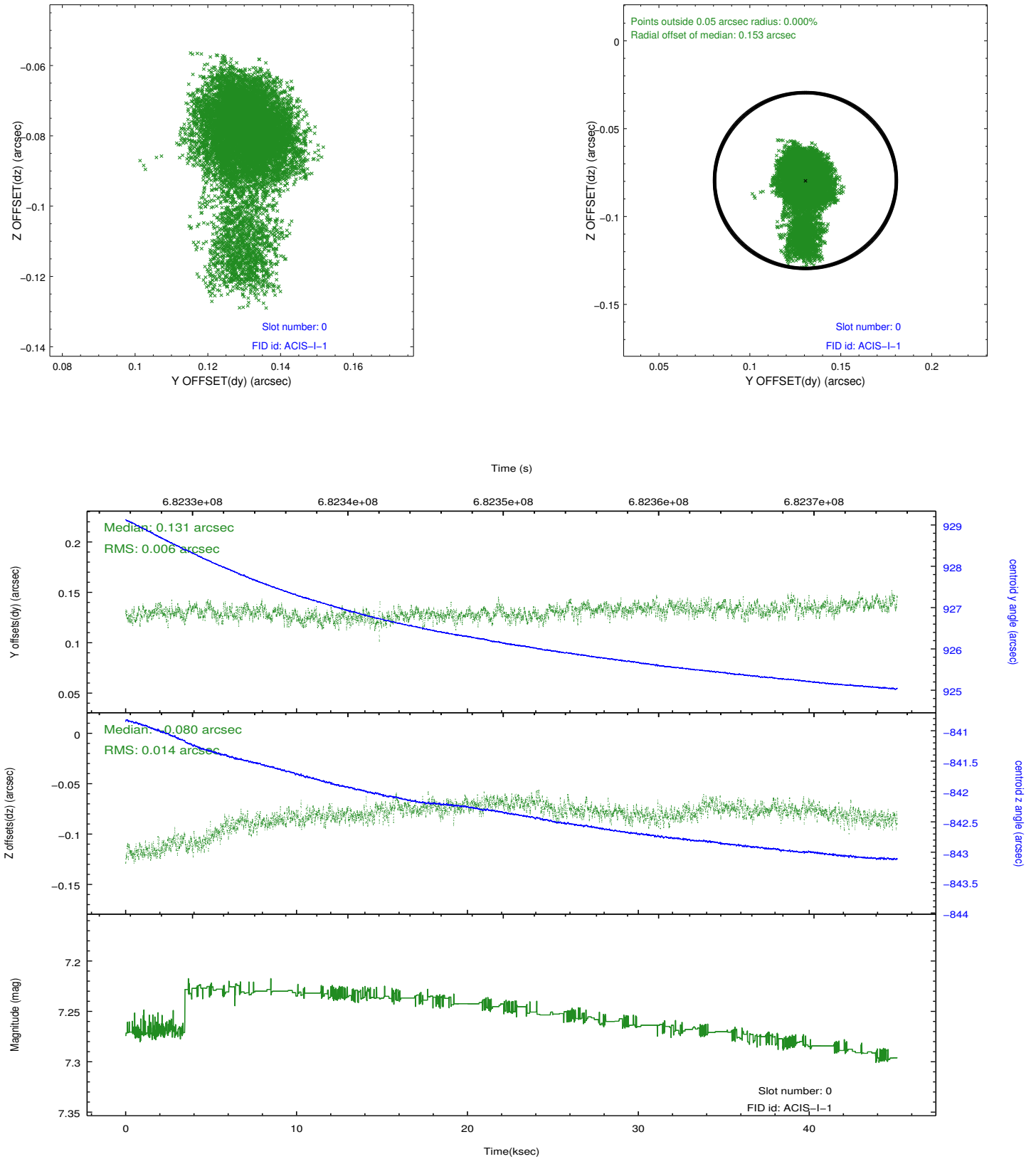


2.4.5 Slot 7

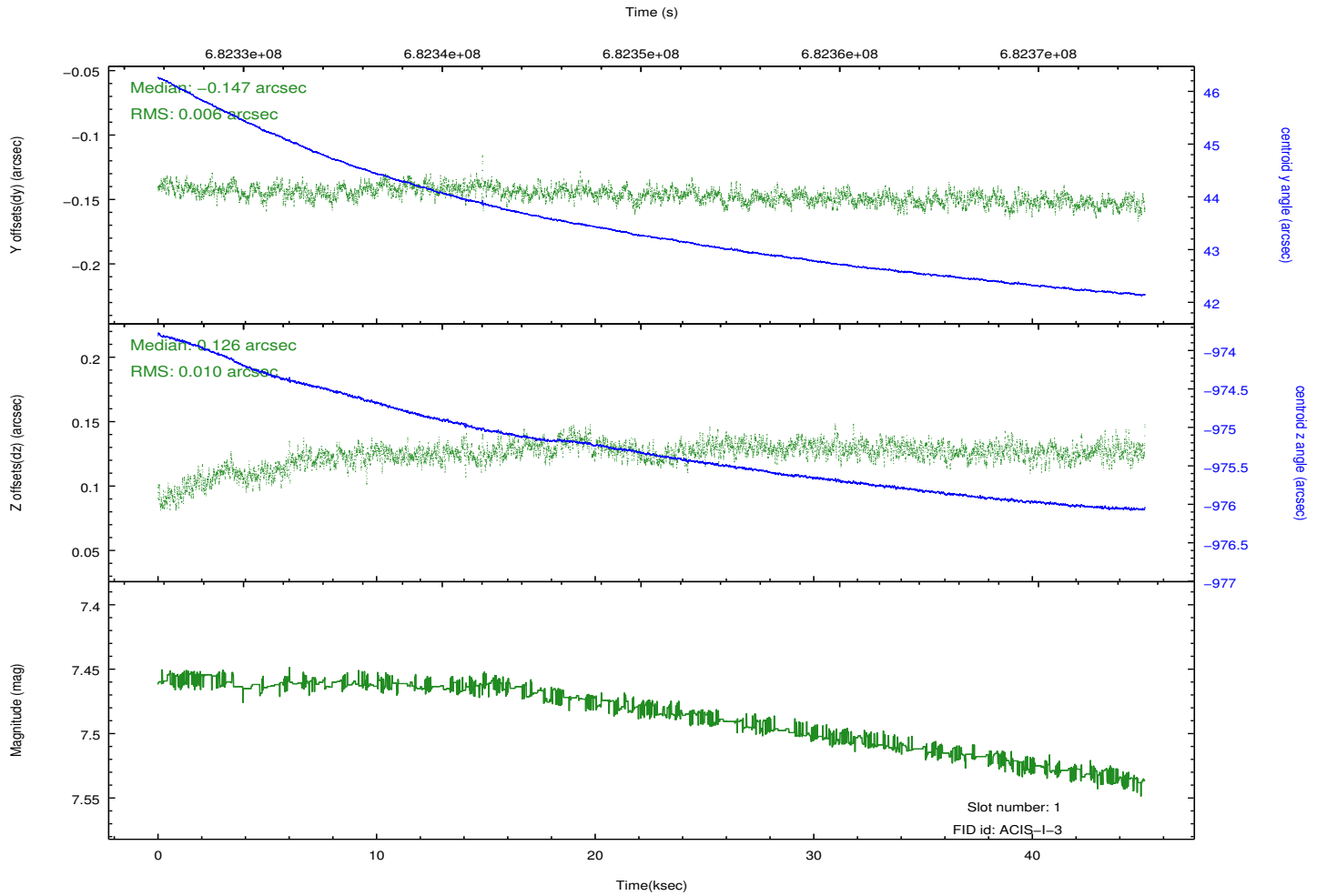
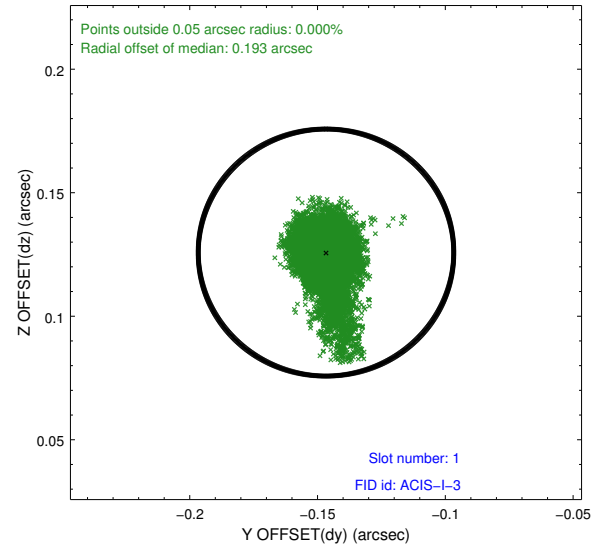
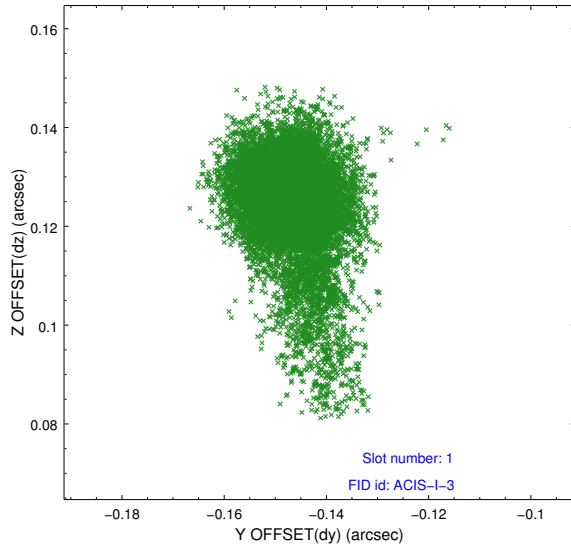


2.5 FID Slots

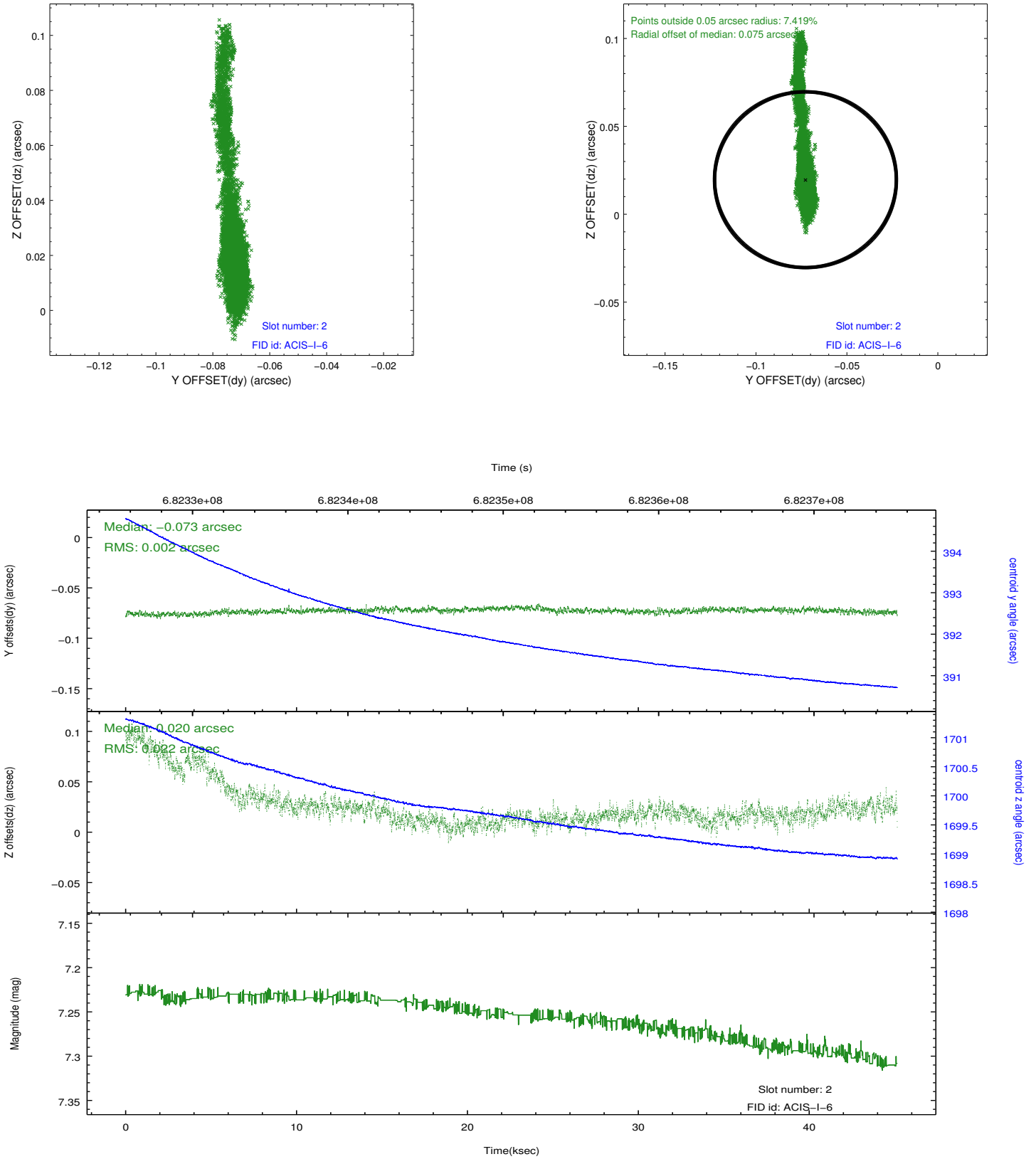
2.5.1 Slot 0



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)	2019.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.077059266567

A.2 Comments