

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22141 - L2 Version 1
Chandra X-Ray Center

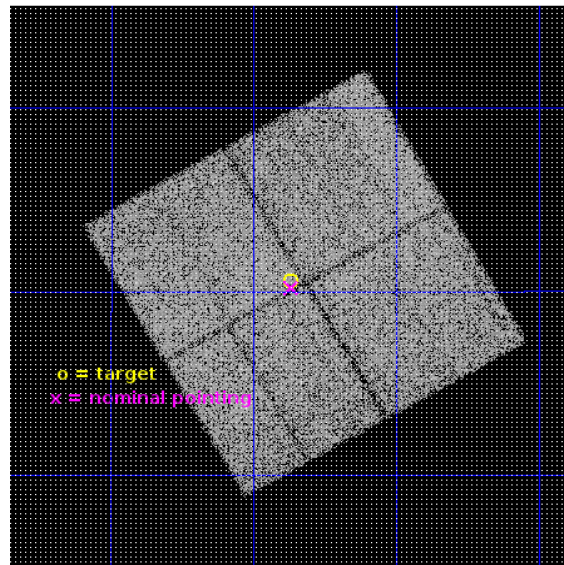
L2 Processing Date : Aug 11 2019

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1 Front

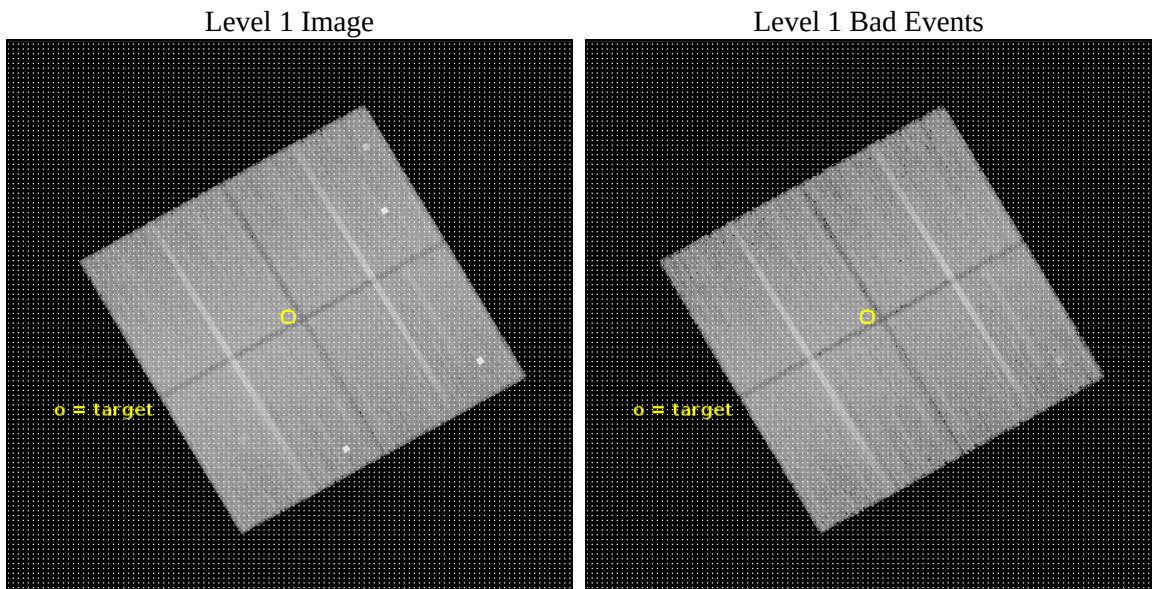
seq_num	402058	Sequence number
obs_id	22141	Observation id
title	Resolving the terminal shock driven by the jet from a microquasar SS433 at the eastern ear of W50	Proposal title
observer	Shinya Yamada	Principal investigator
object	SS433-W50 (eastern ear)	Source name
dtcycle	0	
cycle	P	events from which 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	288.96699456994	Nominal RA [deg]
dec_nom	4.8366443788569	Nominal Dec [deg]
roll_nom	240.20870090513	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40072.256559491	Sum of GTIs [s]
livetime	39548.683026775	Livetime [s]
ontime0	40072.133459568	Sum of GTIs [s]
ontime1	40072.174519658	Sum of GTIs [s]
ontime2	40078.497679949	Sum of GTIs [s]
ontime3	40072.256559491	Sum of GTIs [s]
l2events	119333	Number of level 2 events



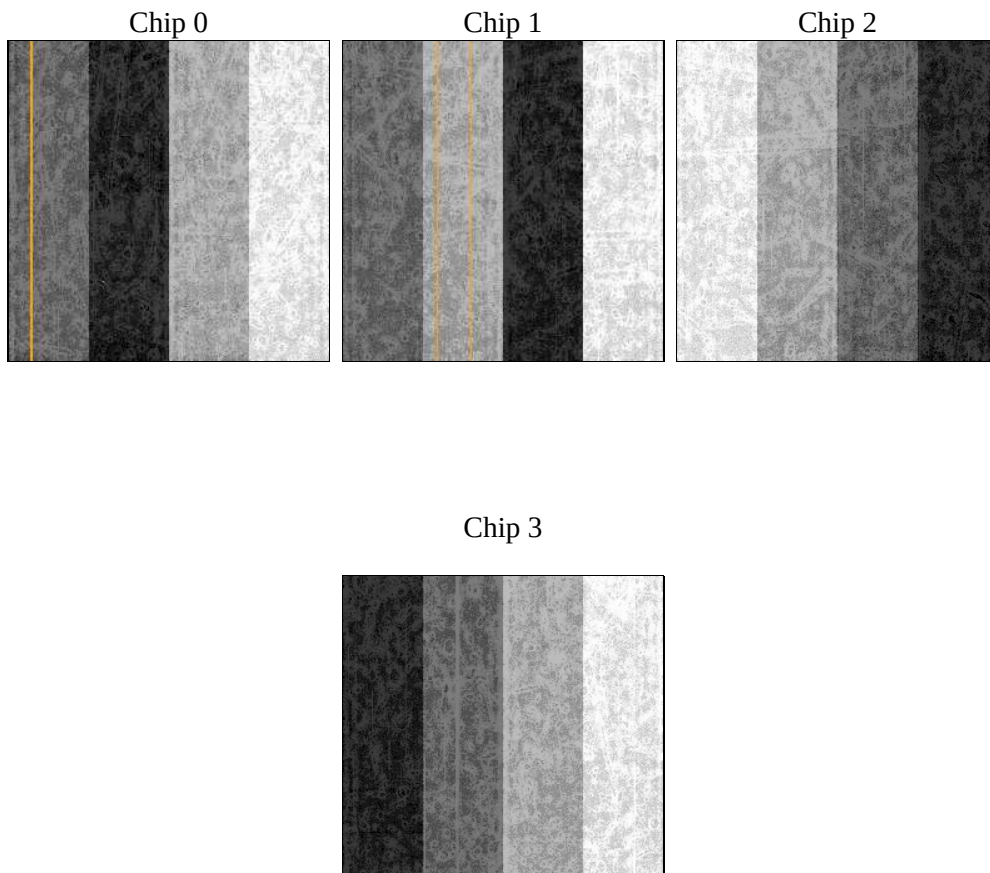
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	40072.256559491	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	40072.133459568	Sum of GTIs [s]
date	2019-08-11T04:33:47	Date and time of file creation	ontime1	40072.174519658	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40078.497679949	Sum of GTIs [s]
			ontime3	40072.256559491	Sum of GTIs [s]
			l1events	1205920	Number of level 1 events

2.1.4 Events

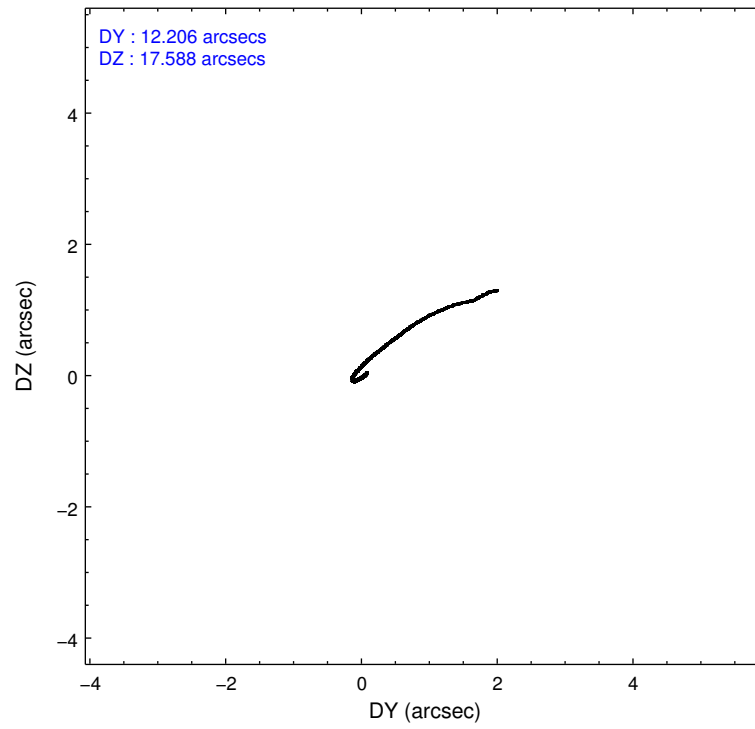
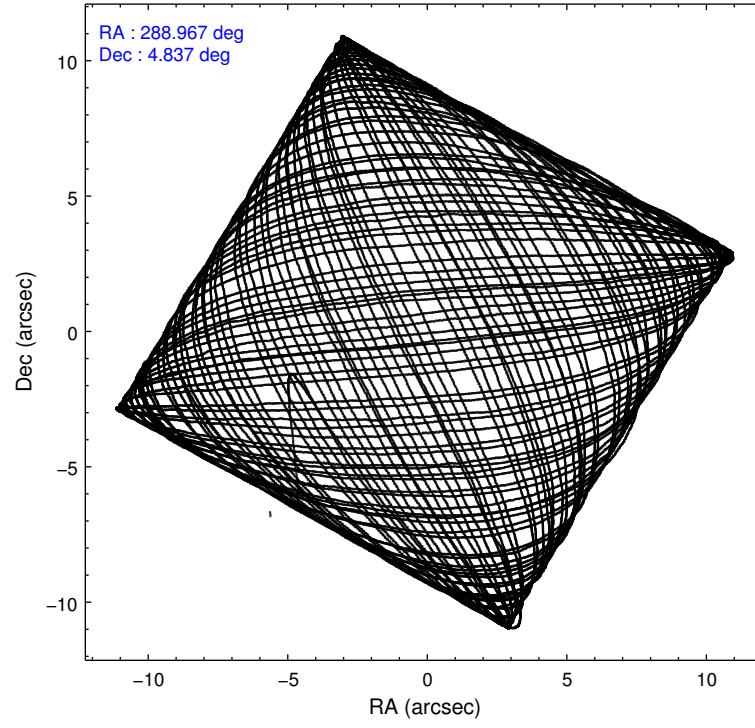
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	291276	296264	317081	301299
rejected events	249897	251611	277616	268066
rejected %	85%	84%	87%	88%

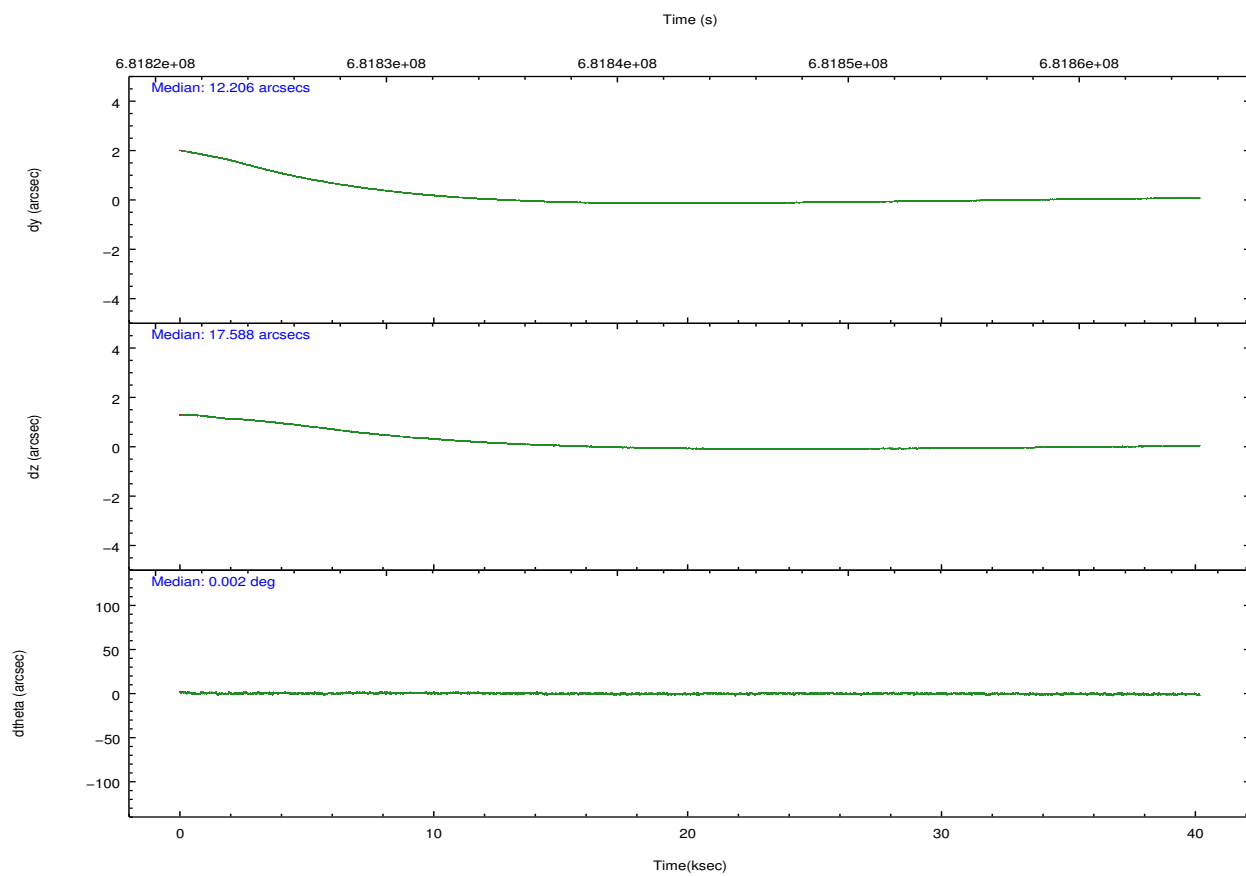
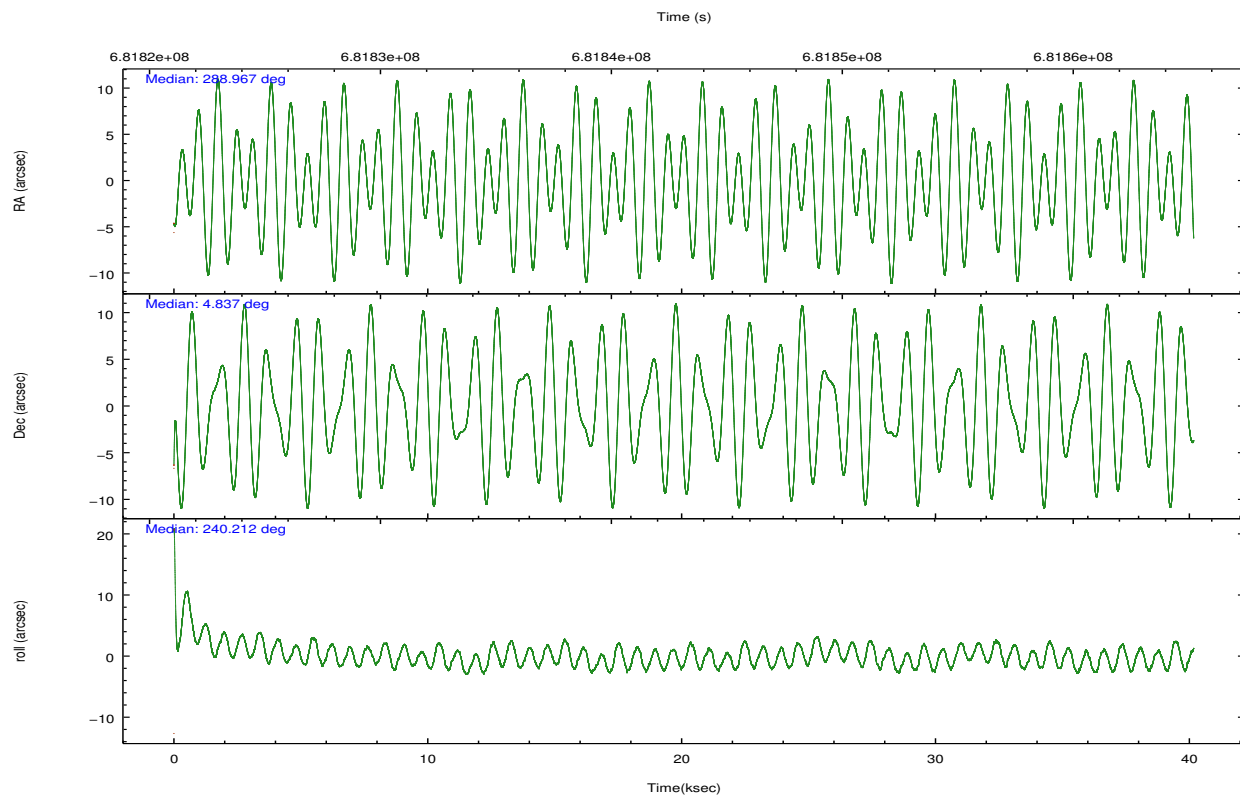
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12942	18845	18226	12011
	4%	6%	5%	3%
grade 1 events	232	188	231	145
	0%	0%	0%	0%
grade 2 events	14271	10053	7964	7235
	4%	3%	2%	2%
grade 3 events	3344	3293	3235	3353
	1%	1%	1%	1%
grade 4 events	3103	3217	3163	3337
	1%	1%	0%	1%
grade 5 events	12545	12456	11991	14000
	4%	4%	3%	4%
grade 6 events	7722	9249	6881	7301
	2%	3%	2%	2%
grade 7 events	237117	238963	265390	253917
	81%	80%	83%	84%

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	288.966786	288.9669945699385	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.864254	4.836644378856894	Alternating exposures requested	N	N
[deg] Pointing Roll	240.000023	240.2087009051284	[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)	681823222.184000	681822372.59556			
Observation start date	2019-08-10T11:19:13	2019-08-10T11:06:12			
[s] Observation end time (MET)	681863222.184000	681864058.83557			
Observation end date	2019-08-10T22:25:53	2019-08-10T22:40:58			
Read mode	TIMED	TIMED			

2.3 Aspect



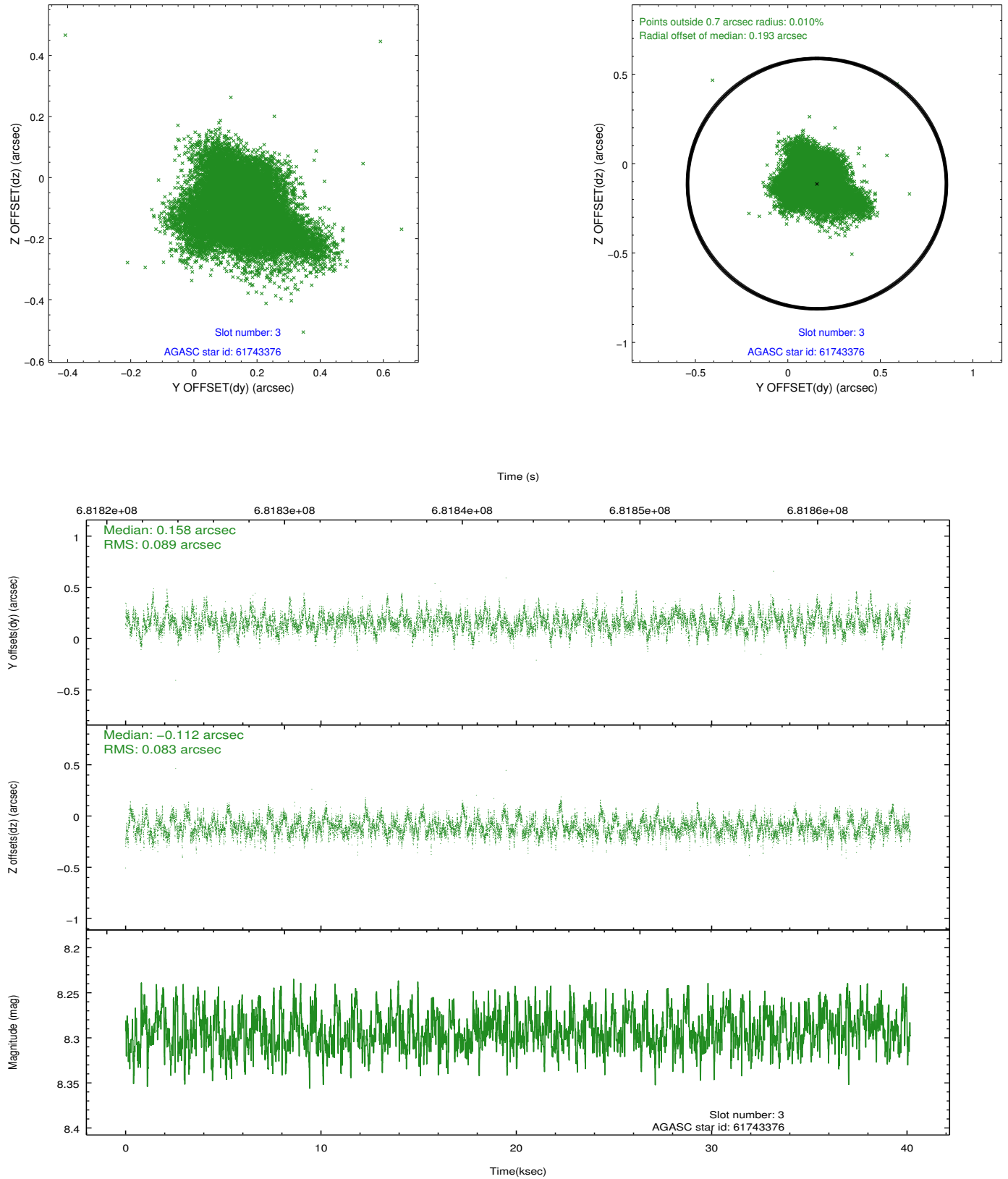


Slot Statistics

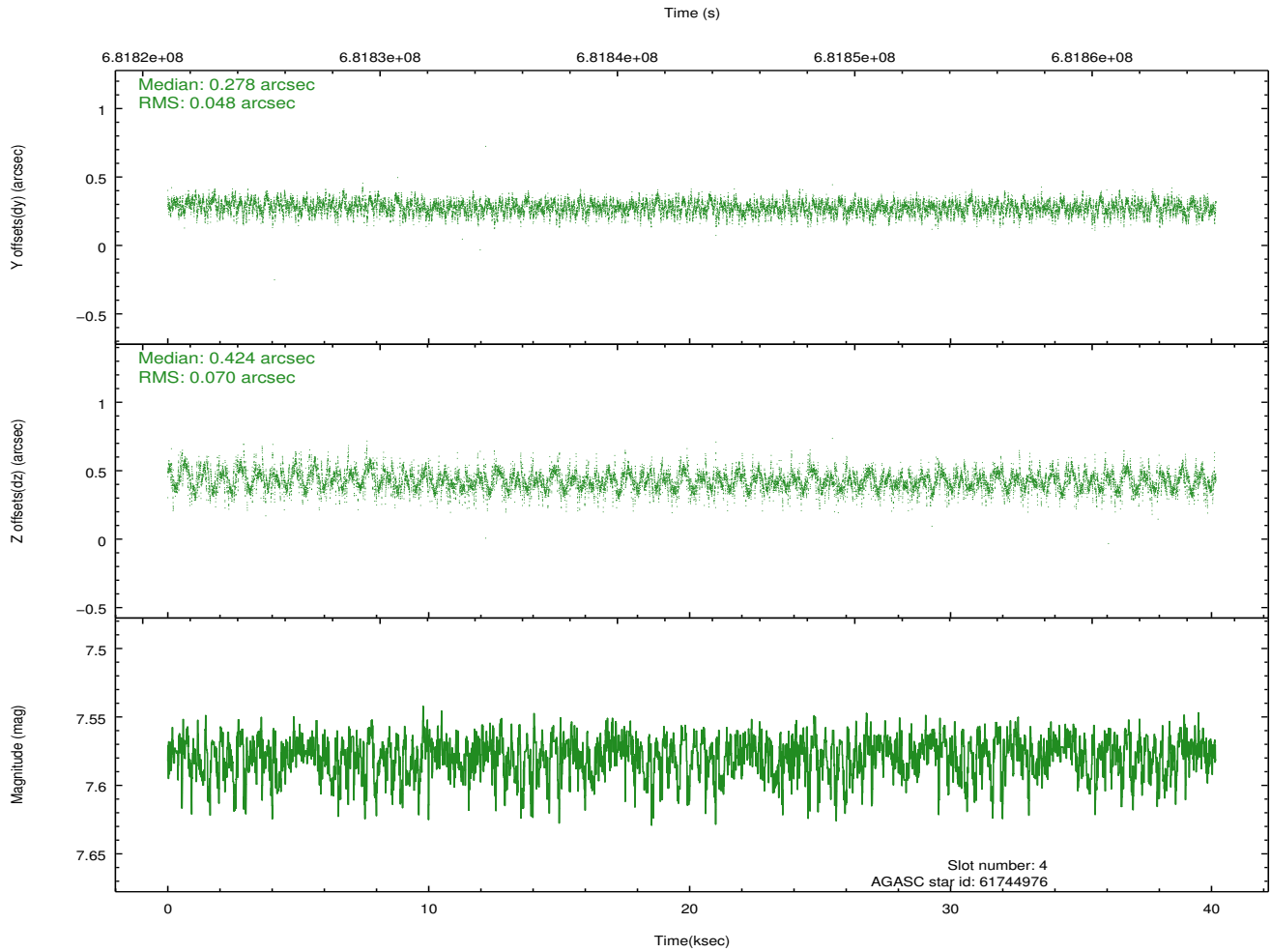
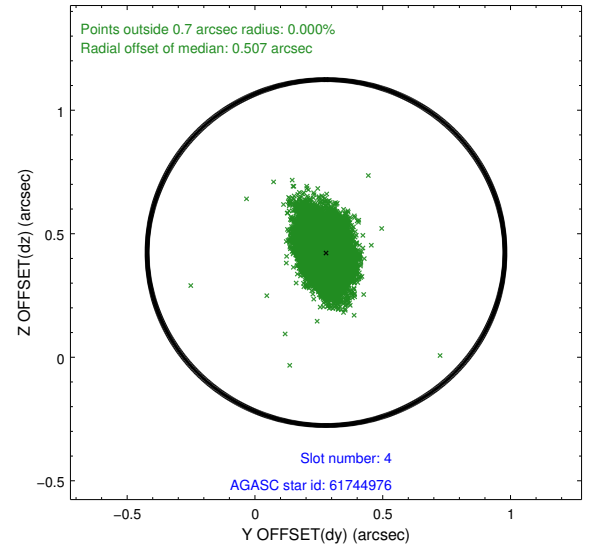
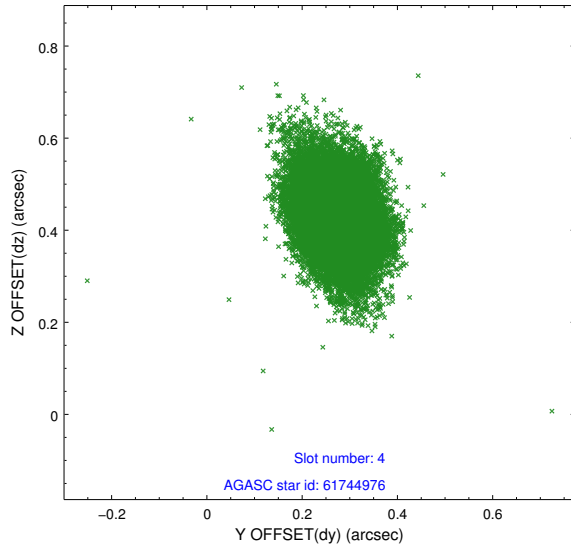
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	9798	1.000	0.129	-0.098	0.013	0.035	0.000000	0.000000	927.18	-841
1	FID		ACIS-I-3	7.43	9797	1.000	-0.145	0.104	0.013	0.030	0.000000	0.000000	44.41	-974
2	FID		ACIS-I-6	7.20	9796	1.000	-0.073	0.064	0.019	0.062	0.000000	0.000000	392.85	1700
3	GUIDE	used	61743376	8.29	19584	1.000	0.158	-0.112	0.127	0.215	288.690993	4.620047	1256.67	-417
4	GUIDE	used	61744976	7.58	19589	1.000	0.278	0.424	0.088	0.148	288.430364	5.306675	-418.02	-2461
5	GUIDE	used	61876720	8.23	19587	1.000	-0.075	0.144	0.097	0.151	289.011366	5.192818	-1103.90	-452
6	GUIDE	used	61884904	7.32	19591	1.000	-0.255	-0.113	0.100	0.164	289.597127	5.131045	-1963.60	1477
7	GUIDE	used	61746744	8.51	19578	1.000	-0.105	-0.351	0.128	0.193	288.662479	4.255976	2442.87	148

2.4 Star Slots

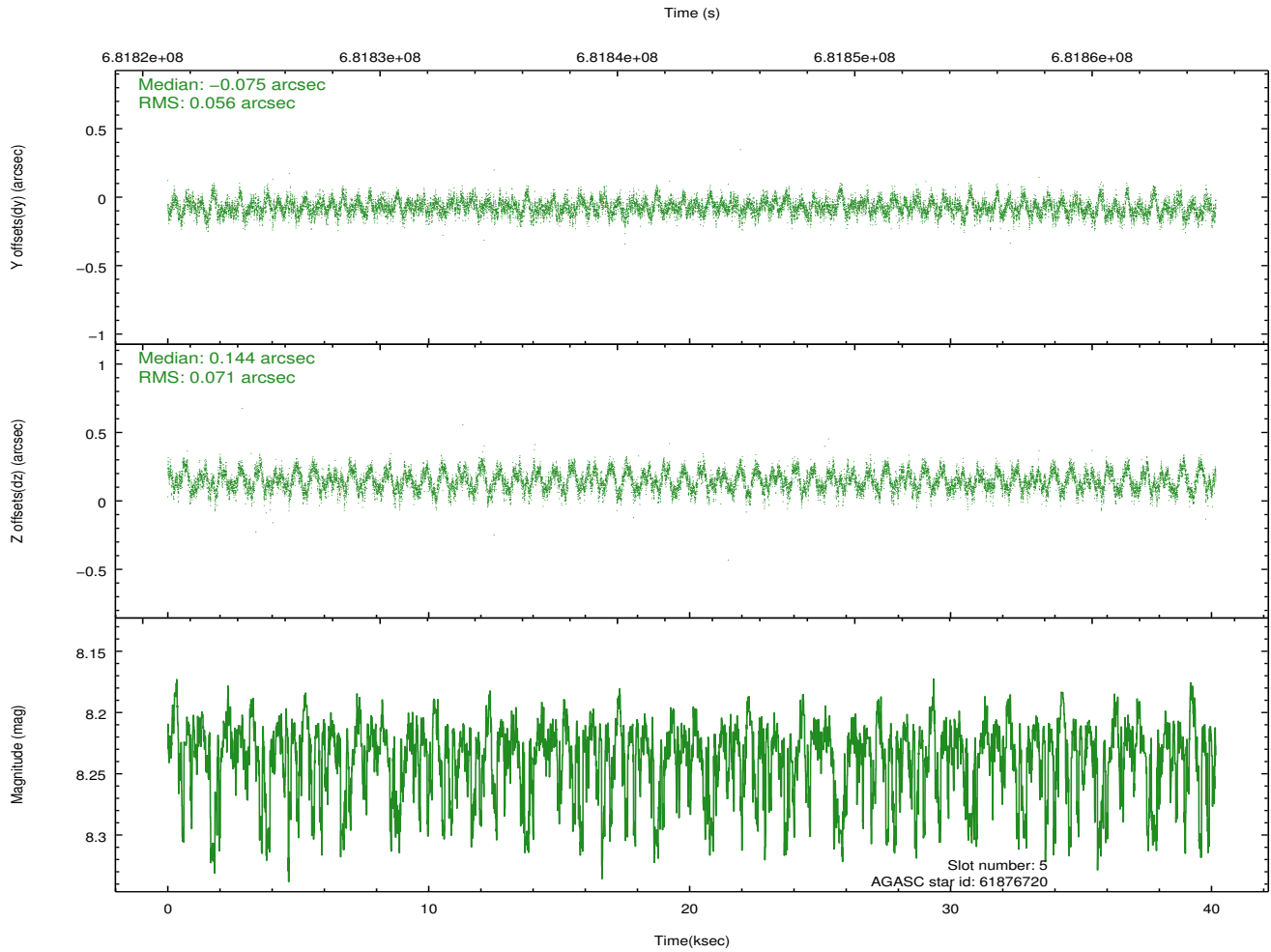
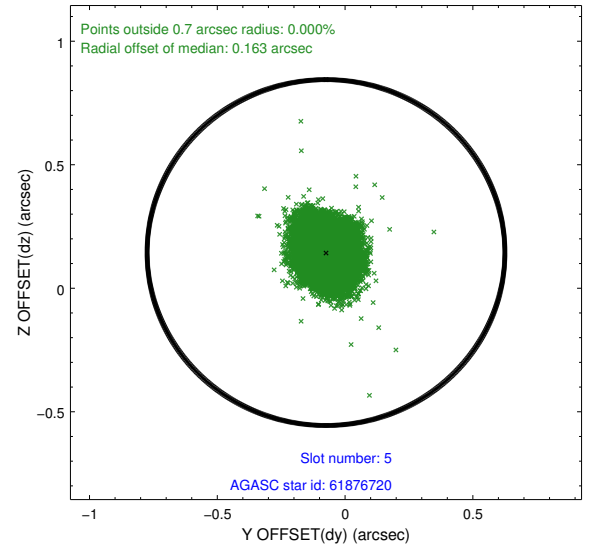
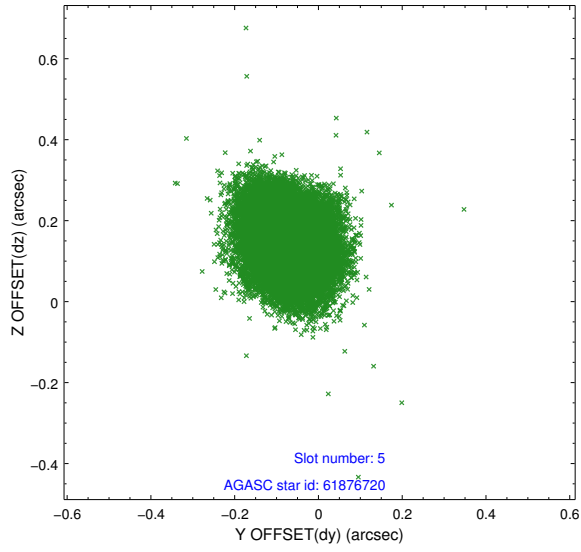
2.4.1 Slot 3



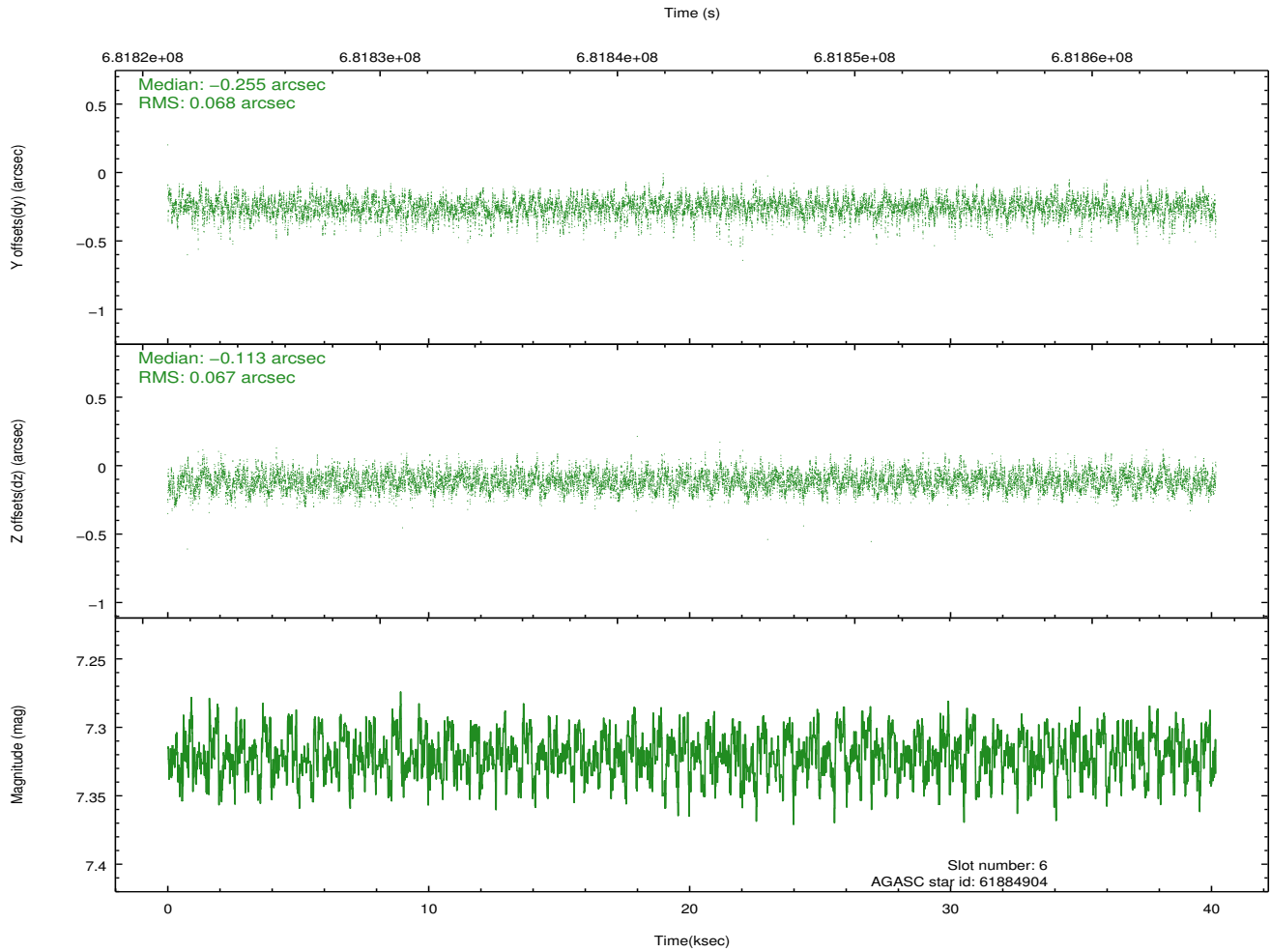
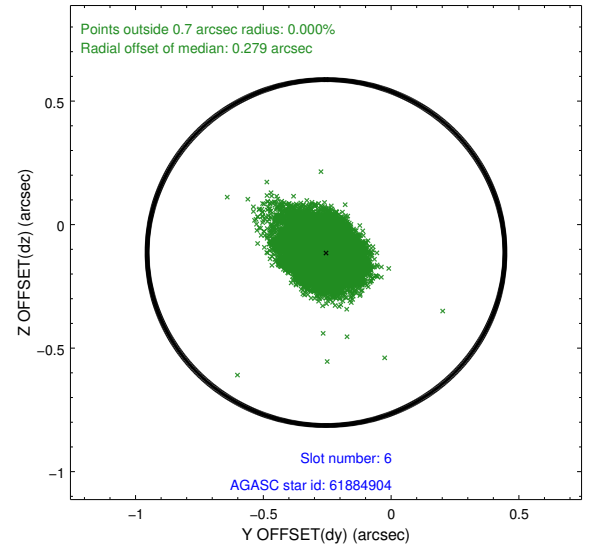
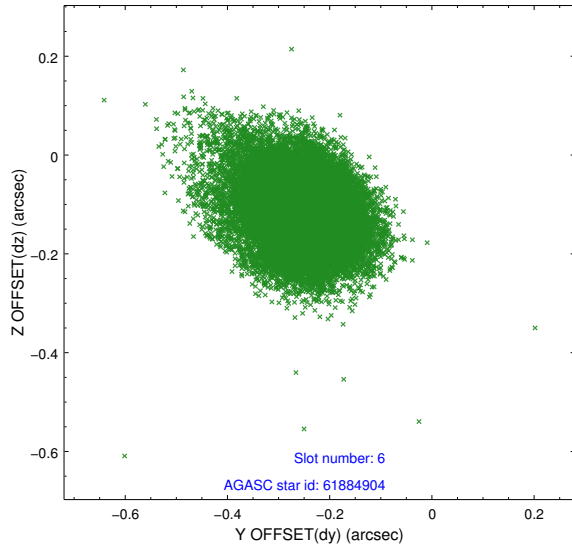
2.4.2 Slot 4



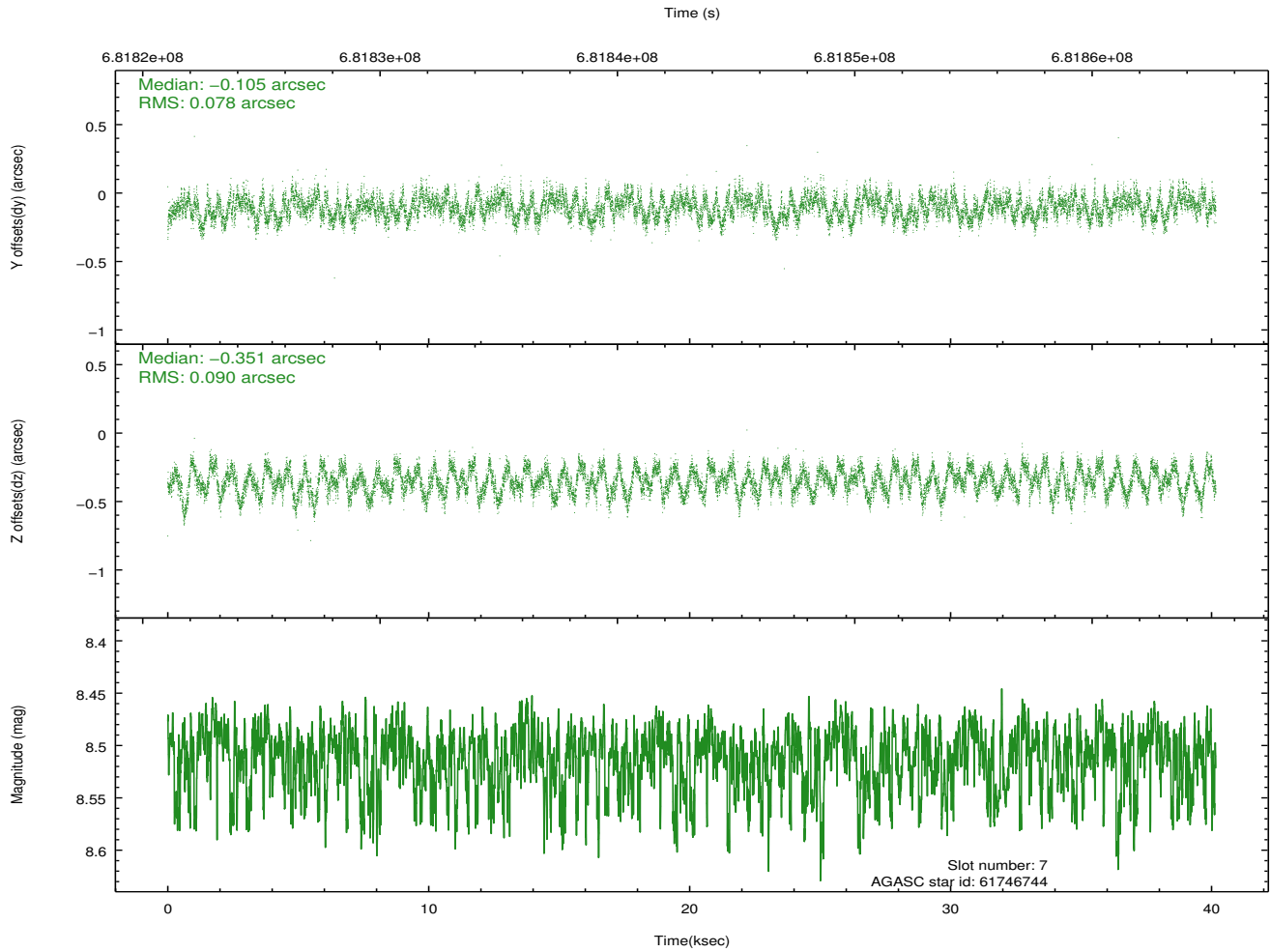
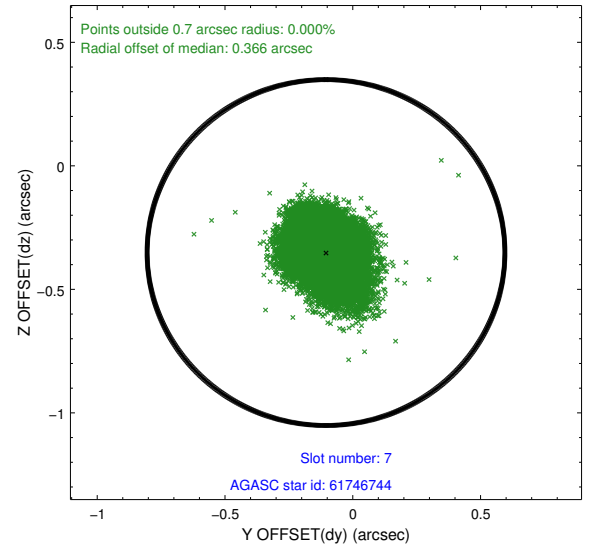
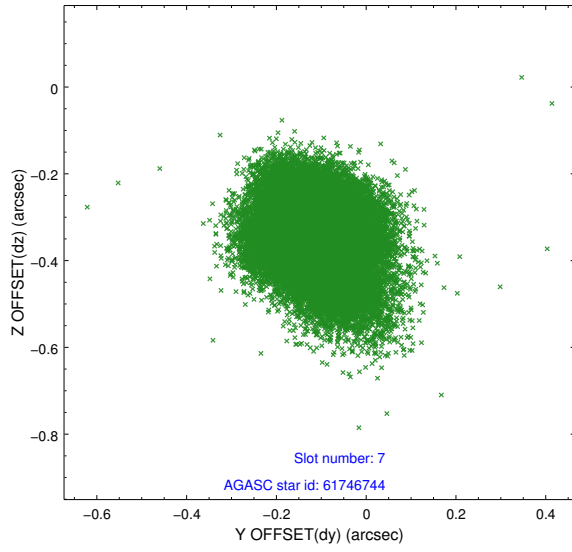
2.4.3 Slot 5



2.4.4 Slot 6

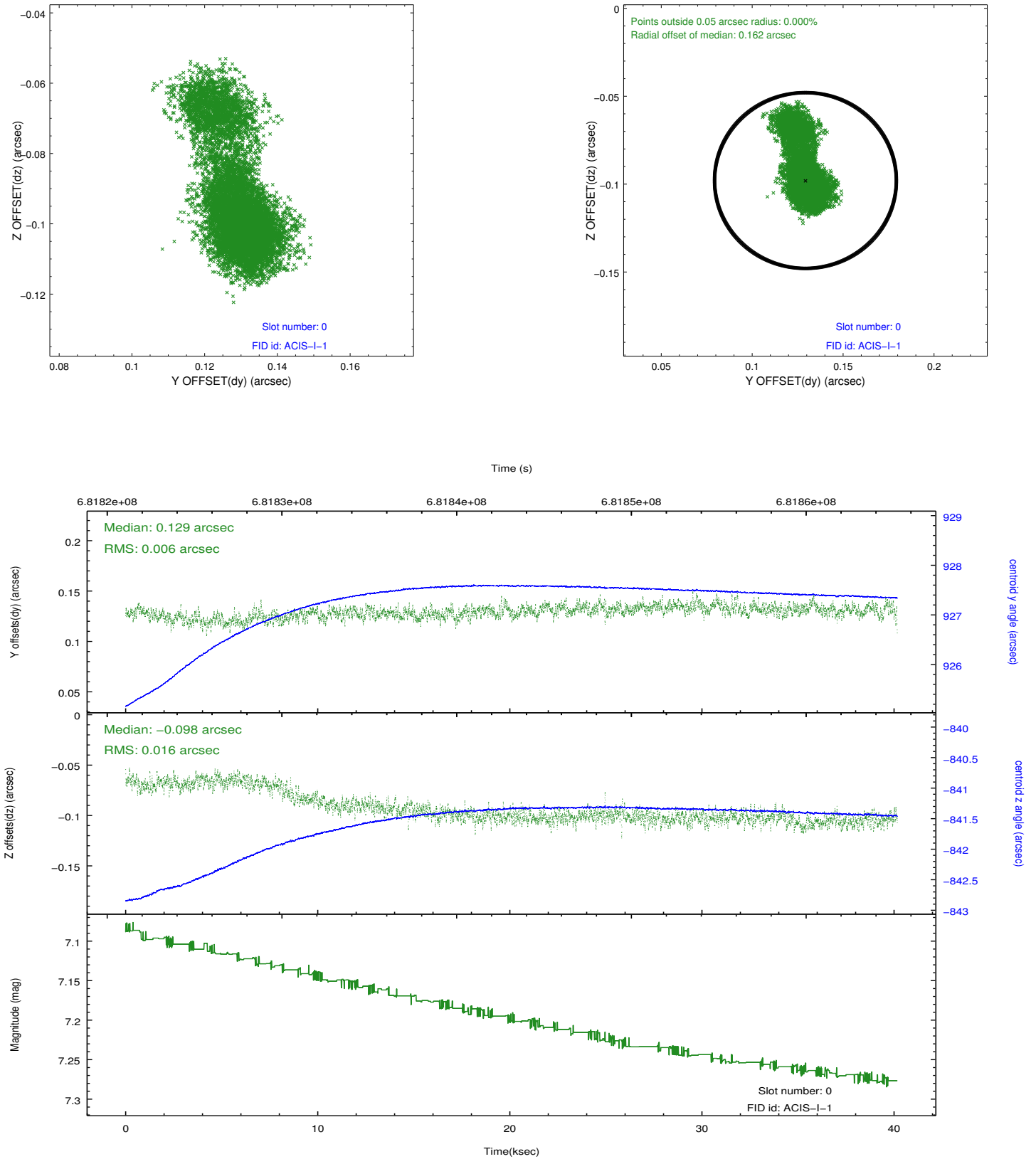


2.4.5 Slot 7

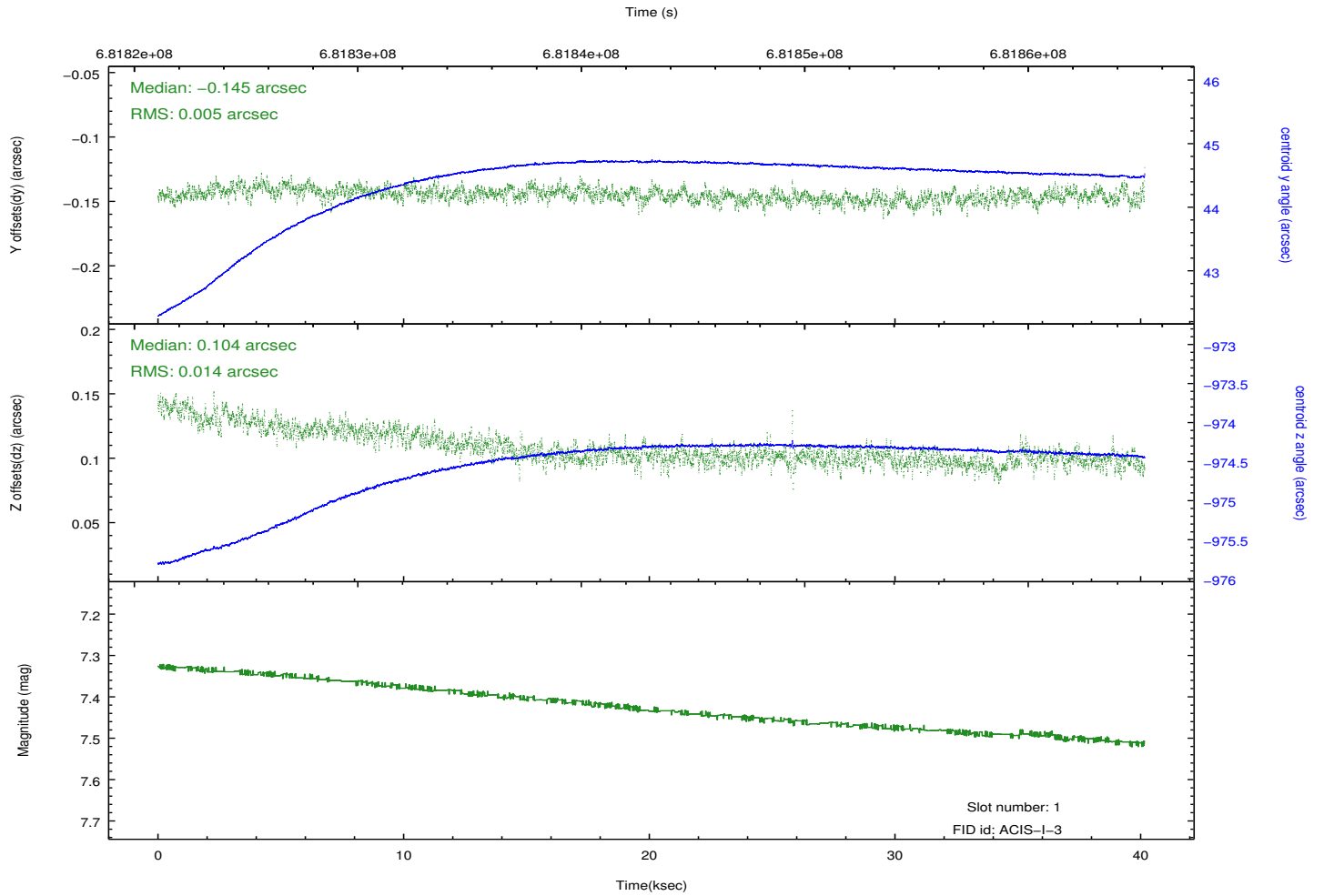
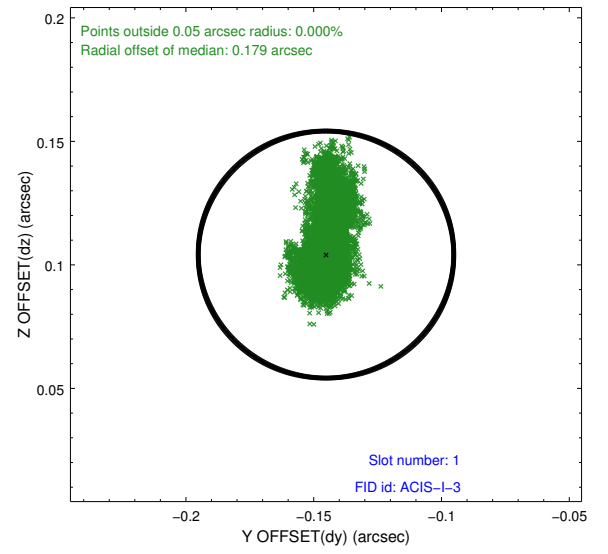
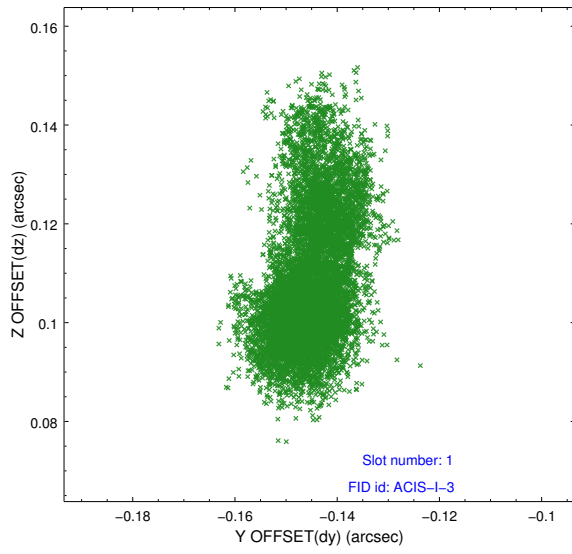


2.5 FID Slots

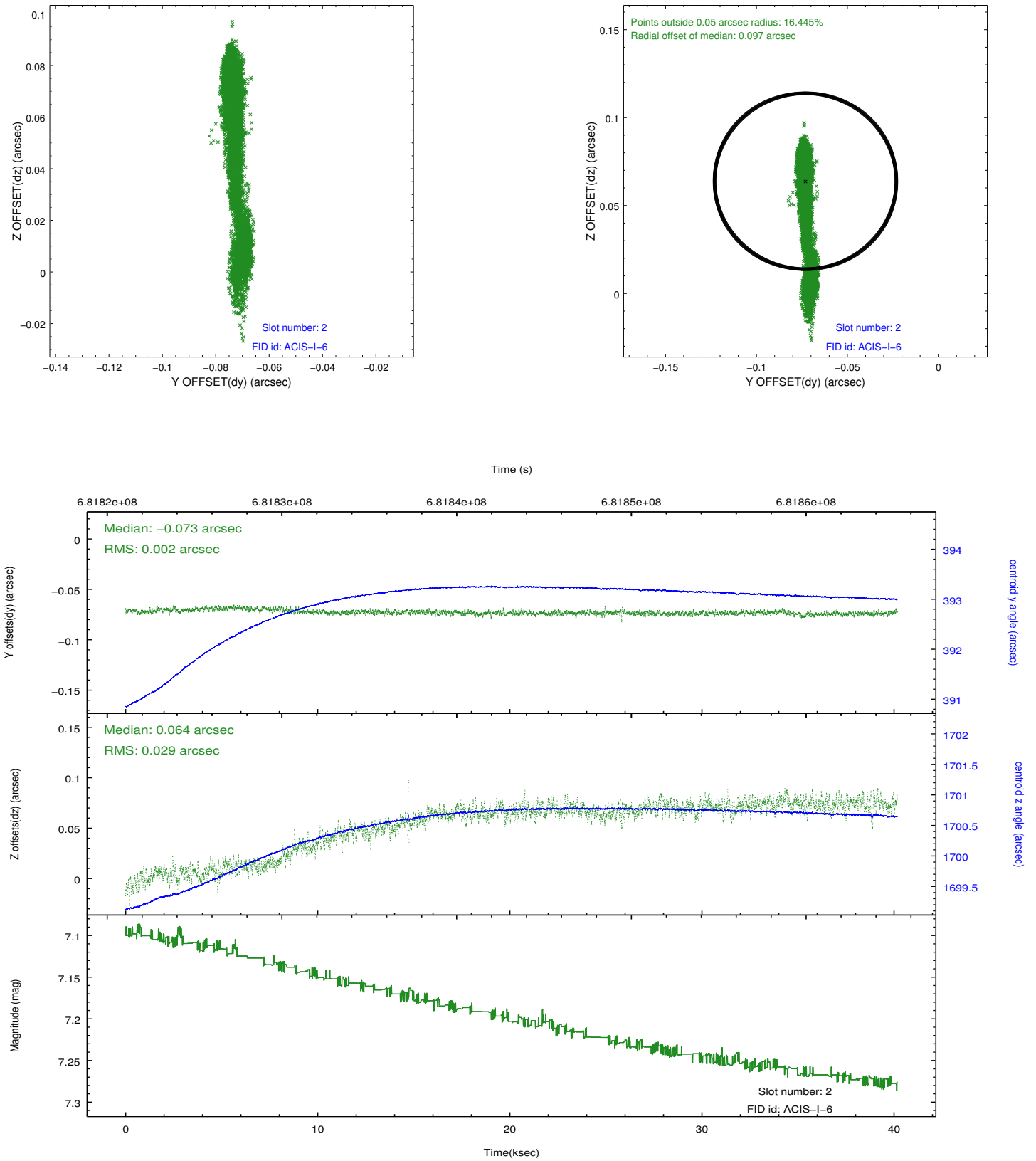
2.5.1 Slot 0



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)	2019.08.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.072256559491

A.2 Comments