

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21510 - L2 Version 1
Chandra X-Ray Center

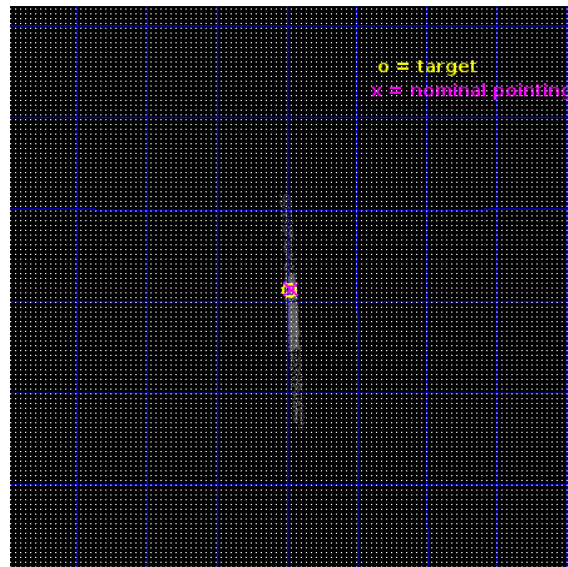
L2 Processing Date : Oct 25 2018

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1 Front

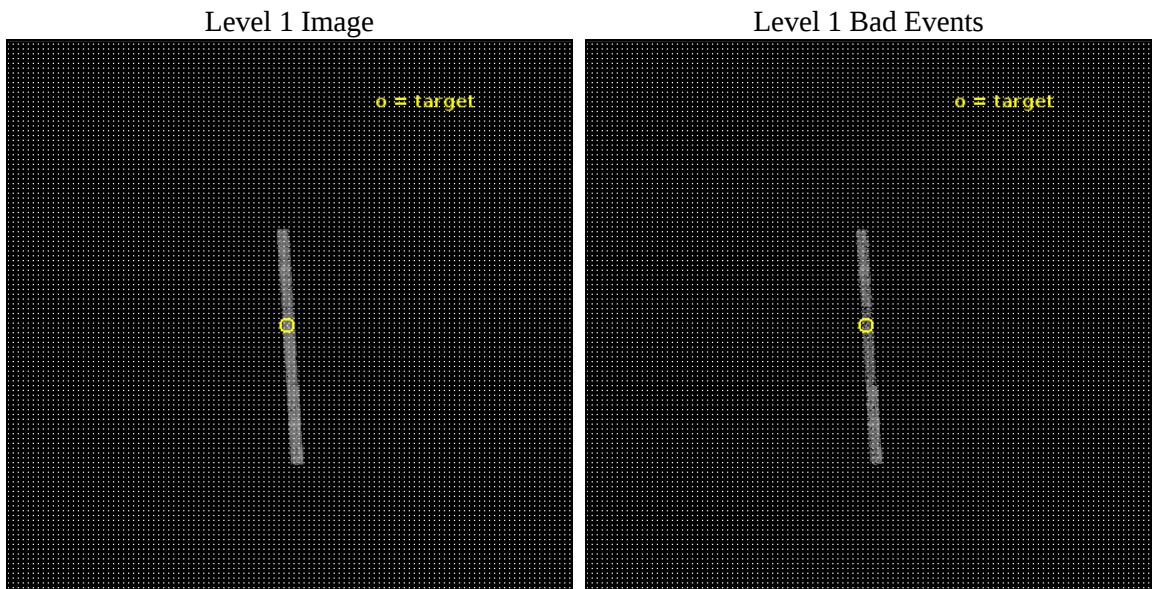
seq_num	703803	Sequence number
obs_id	21510	Observation id
title	X-ray Properties of Extreme Super Eddington Accreting Massive Black Holes	Proposal title
observer	Michael Brotherton	Principal investigator
object	IRAS 04416+1215	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	71.12	Observer's specified target RA [deg]
dec_targ	12.353333	Observer's specified target Dec [deg]
ra_nom	71.116357841012	Nominal RA [deg]
dec_nom	12.355964330045	Nominal Dec [deg]
roll_nom	86.623655523668	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3703.800147295	Sum of GTIs [s]
livetime	3466.6792842522	Livetime [s]
ontime6	3703.800147295	Sum of GTIs [s]
ontime7	3703.800147295	Sum of GTIs [s]
ontime8	3703.800147295	Sum of GTIs [s]
l2events	4397	Number of level 2 events



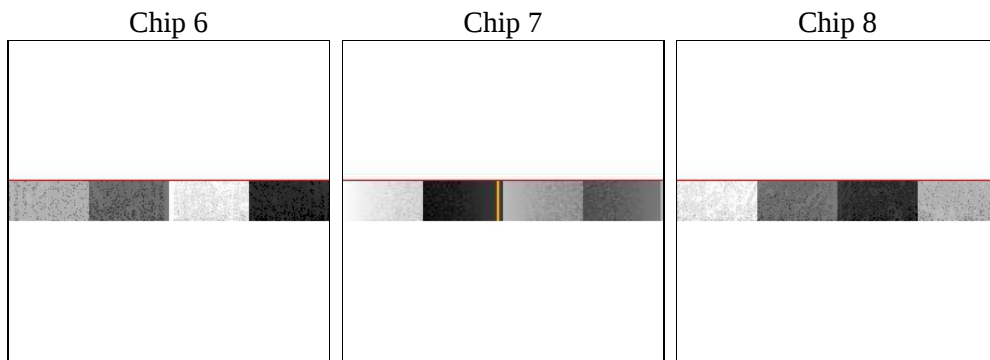
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3600.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	3703.800147295	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	3703.800147295	Sum of GTIs [s]
date	2018-10-25T04:12:30	Date and time of file creation	ontime7	3703.800147295	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3703.800147295	Sum of GTIs [s]
			l1events	17645	Number of level 1 events

2.1.4 Events

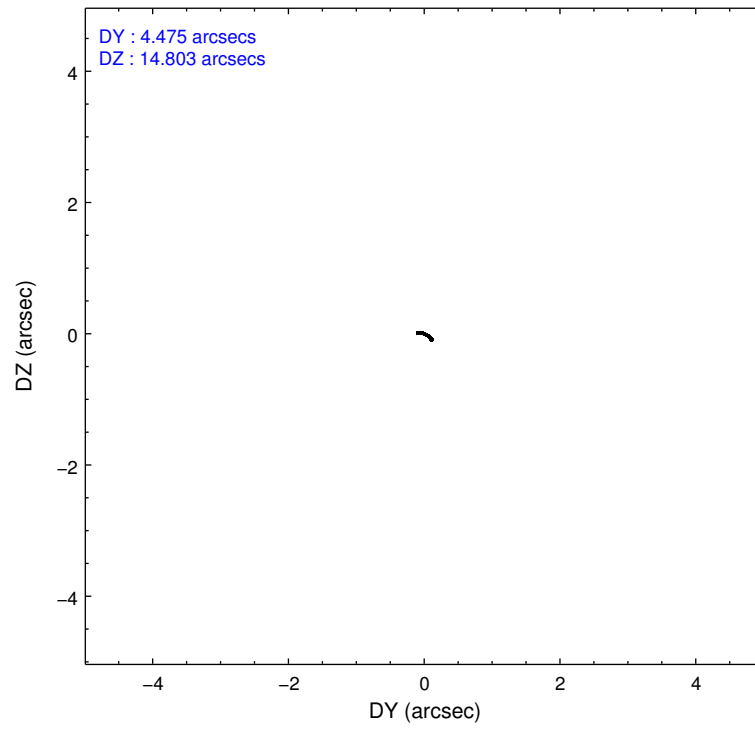
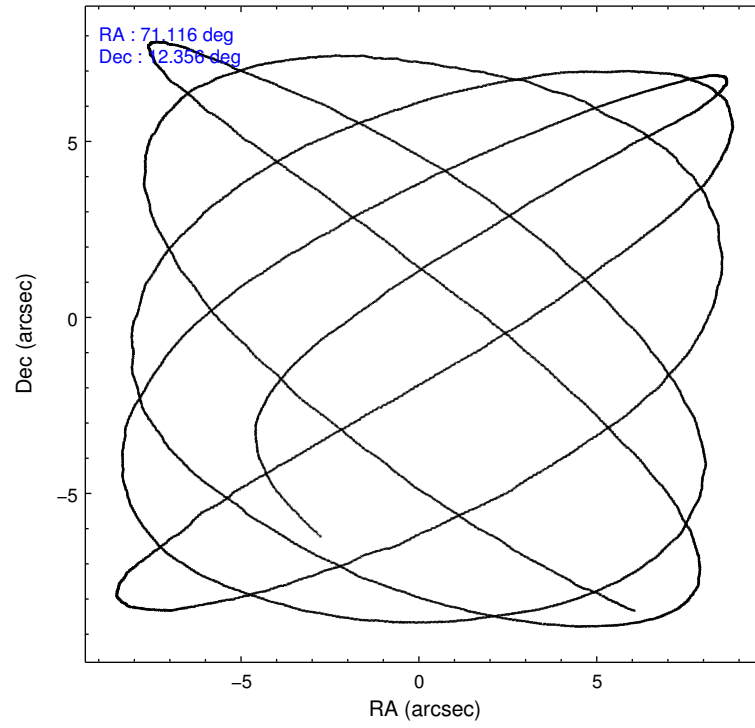
	ccd 6	ccd 7	ccd 8
level 1 events	4863	6230	6552
rejected events	4330	2624	5216
rejected %	89%	42%	79%

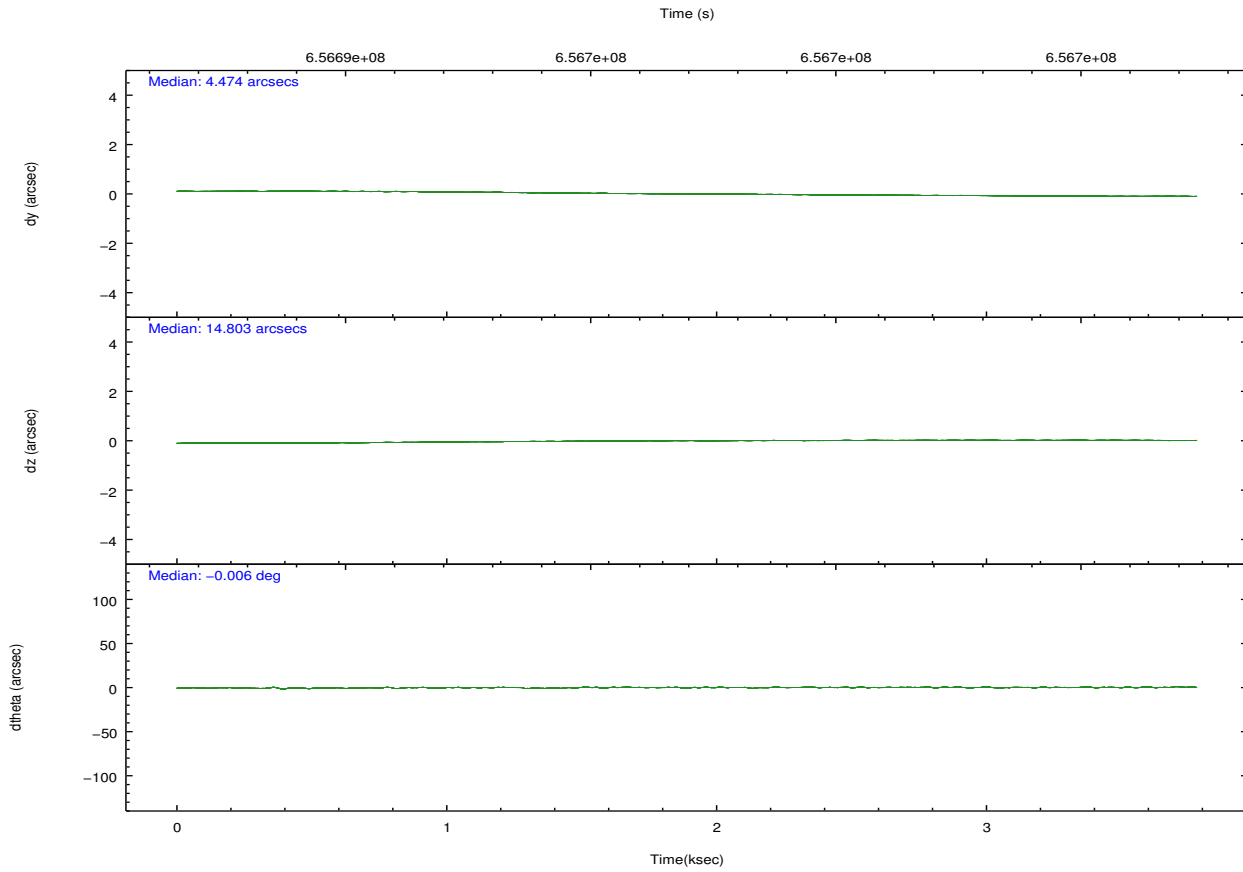
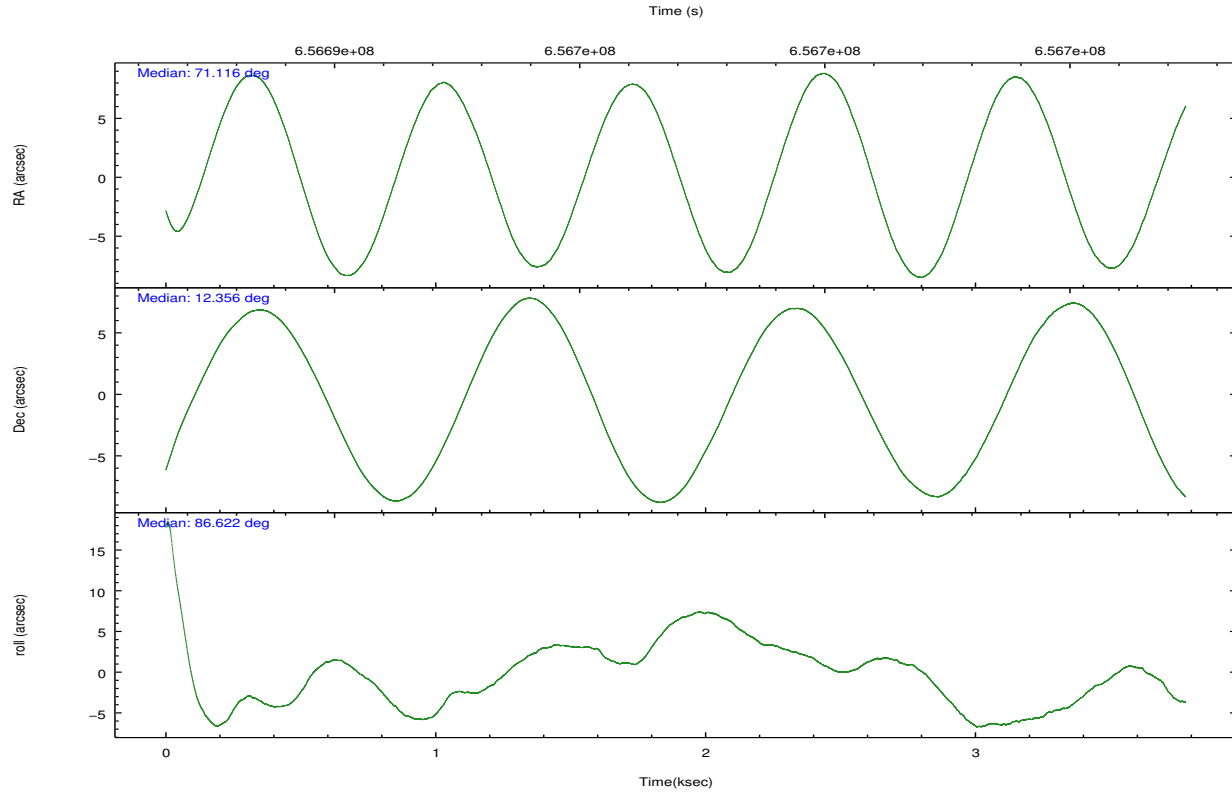
	ccd 6	ccd 7	ccd 8
grade 0 events	133	517	261
	2%	8%	3%
grade 1 events	3	4	3
	0%	0%	0%
grade 2 events	95	755	326
	1%	12%	4%
grade 3 events	82	416	149
	1%	6%	2%
grade 4 events	112	413	155
	2%	6%	2%
grade 5 events	157	511	235
	3%	8%	3%
grade 6 events	111	1506	445
	2%	24%	6%
grade 7 events	4170	2108	4978
	85%	33%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	71.129316	71.116357841012	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.331476	12.35596433004545	Subarray start row	449	449
[deg] Pointing Roll	86.464193	86.62365552366812	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.6
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	656693657.184000	656692997.0299799			
Observation start date	2018-10-23T14:53:08	2018-10-23T14:43:17			
[s] Observation end time (MET)	656697257.184000	656697635.66775			
Observation end date	2018-10-23T15:53:08	2018-10-23T16:00:35			
Read mode	TIMED	TIMED			

2.3 Aspect



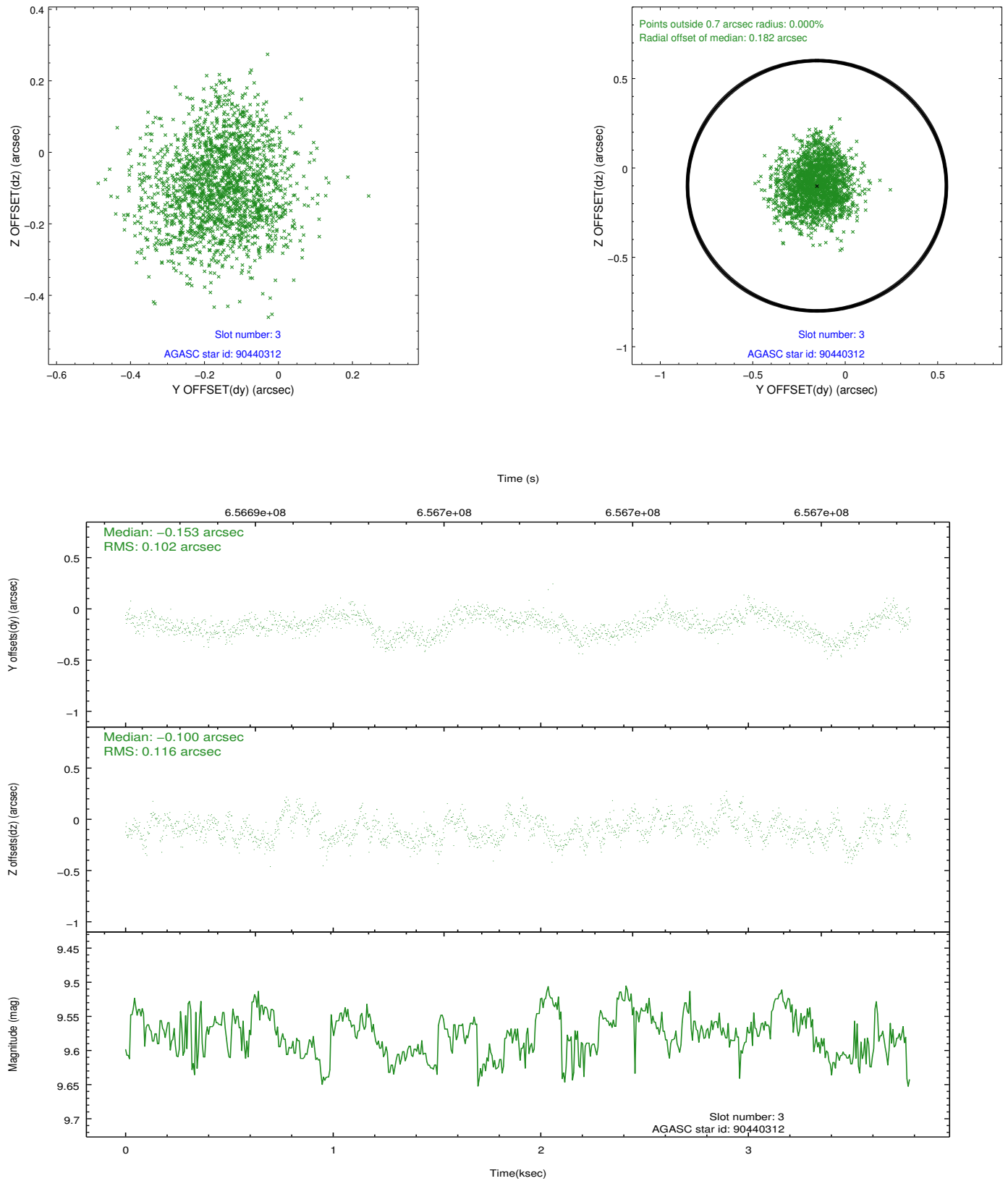


Slot Statistics

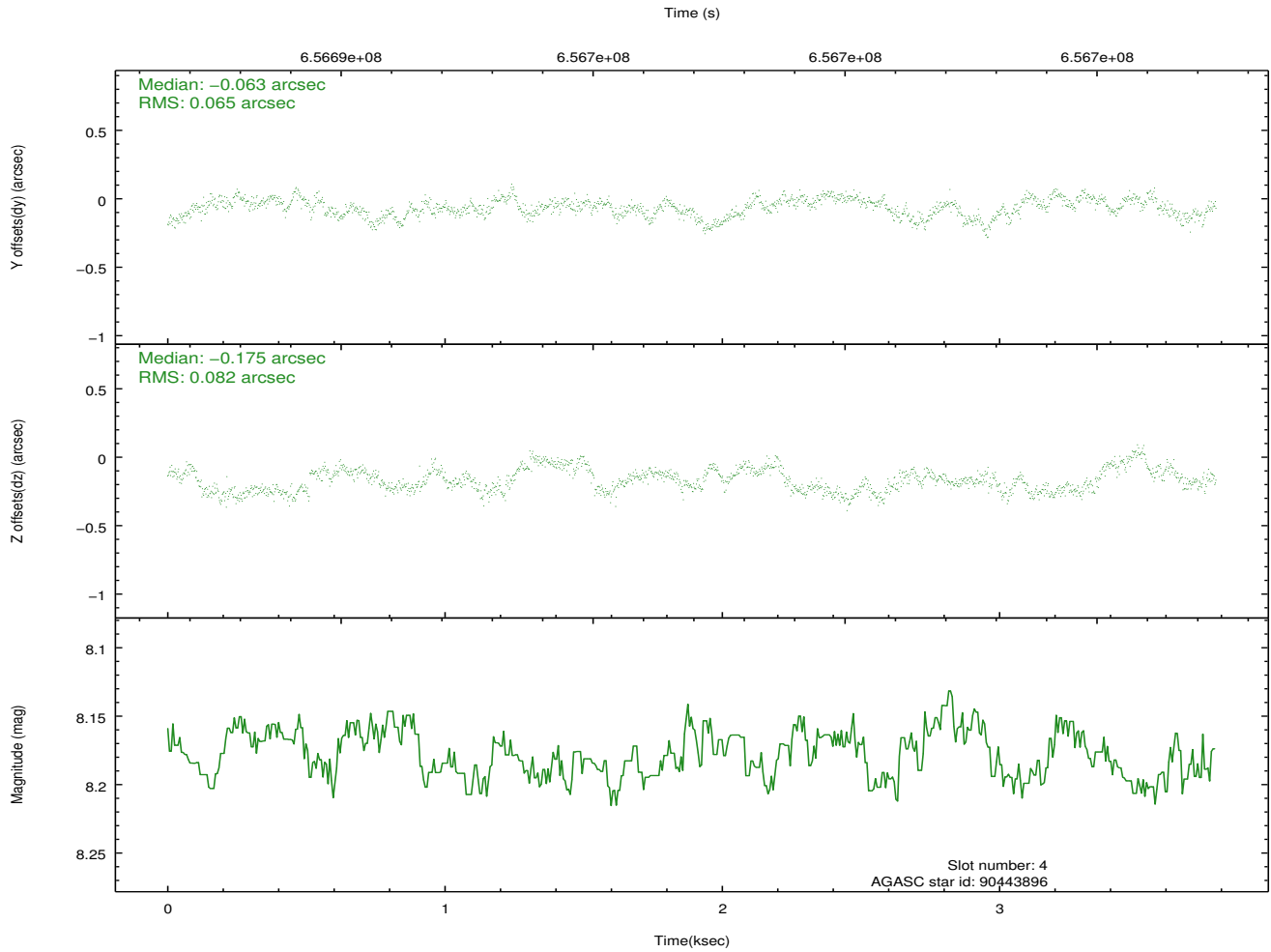
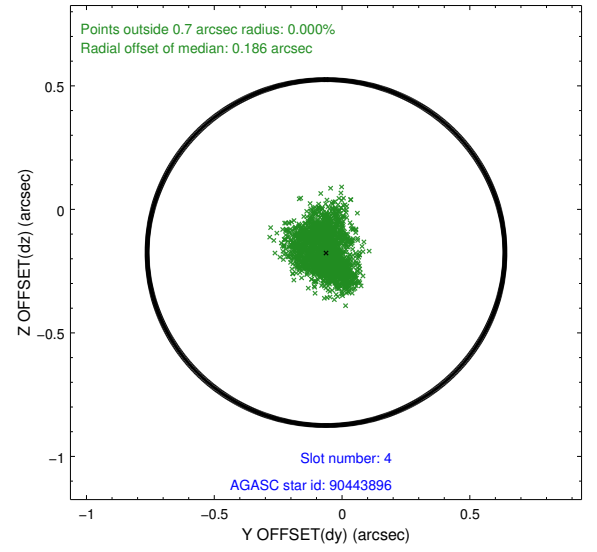
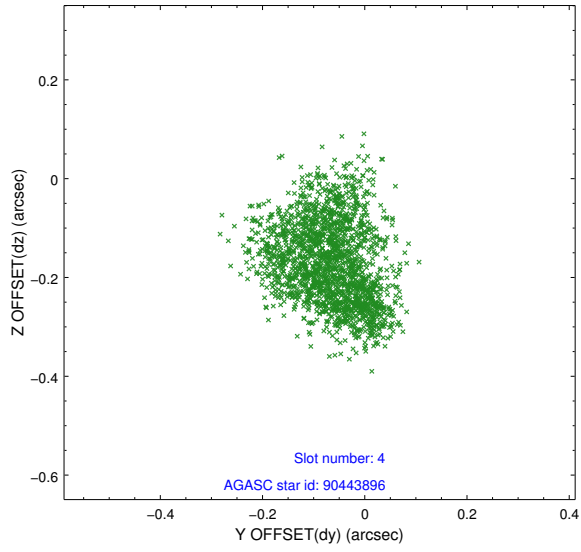
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	922	1.000	-0.287	-0.143	0.006	0.010	0.000000	0.000000	-757.38	-1736
1	FID		ACIS-S-4	7.21	922	1.000	0.620	0.177	0.006	0.010	0.000000	0.000000	2155.98	170
2	FID		ACIS-S-5	7.21	922	1.000	-0.365	-0.024	0.006	0.010	0.000000	0.000000	-1808.24	166
3	GUIDE	used	90440312	9.58	1845	1.000	-0.153	-0.100	0.166	0.262	70.840501	12.445997	348.82	1038
4	GUIDE	used	90443896	8.18	1845	1.000	-0.063	-0.175	0.114	0.175	70.655998	12.311121	-174.45	1657
5	GUIDE	used	90451080	7.44	1844	1.000	-0.110	-0.097	0.106	0.175	70.703474	12.209767	-533.14	1467
6	GUIDE	used	90572856	7.78	1844	1.000	-0.279	-0.192	0.080	0.141	71.015501	12.991327	2346.42	545
7	GUIDE	used	90573600	9.55	1841	1.000	0.611	0.558	0.163	0.250	71.459360	11.842572	-1682.72	-1268

2.4 Star Slots

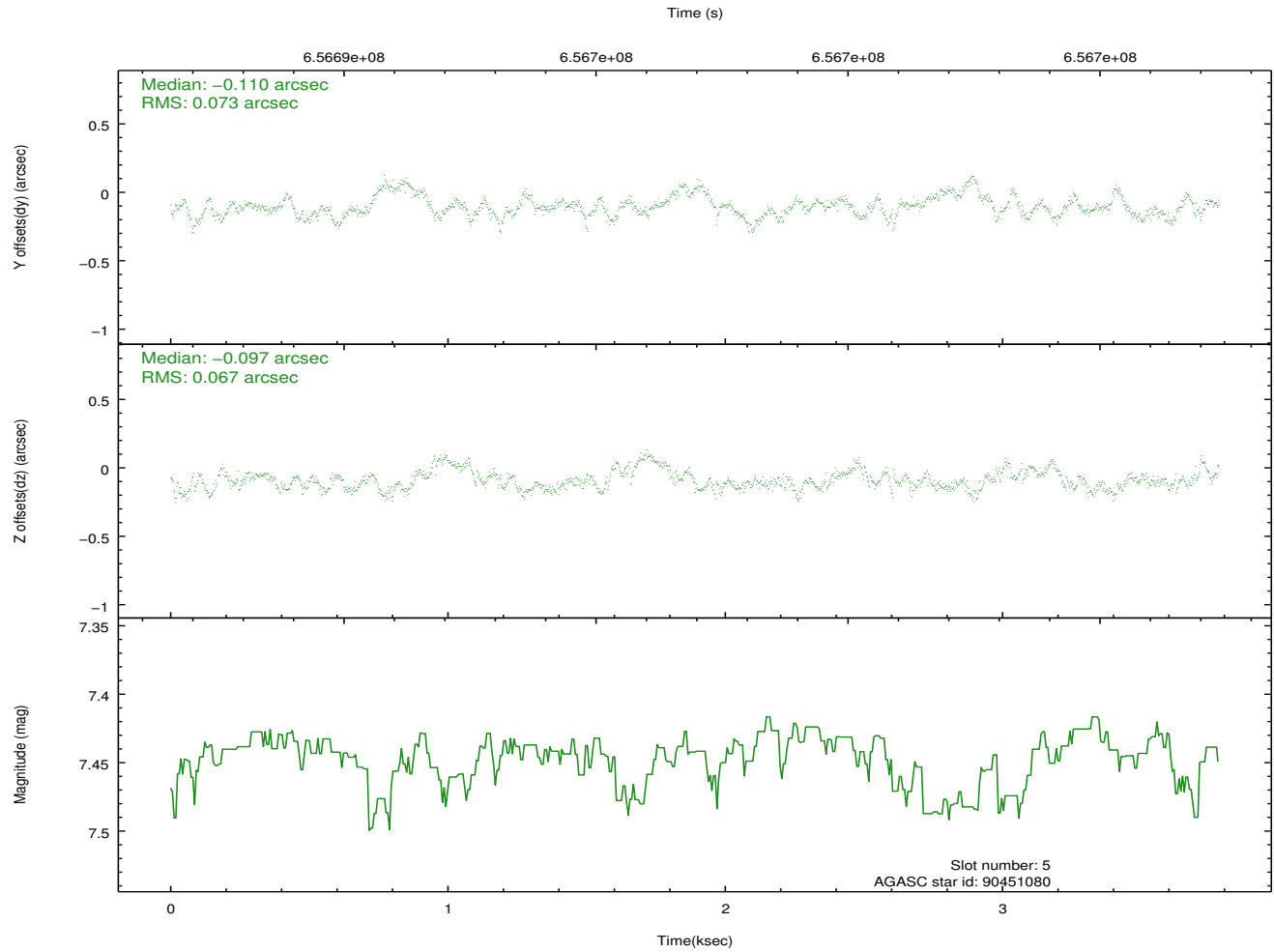
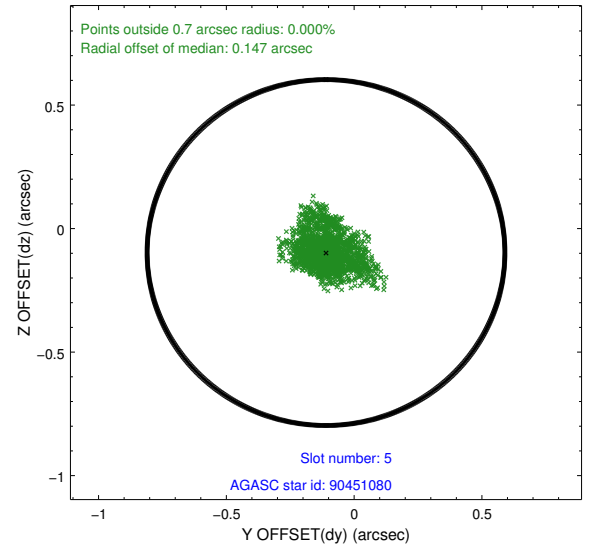
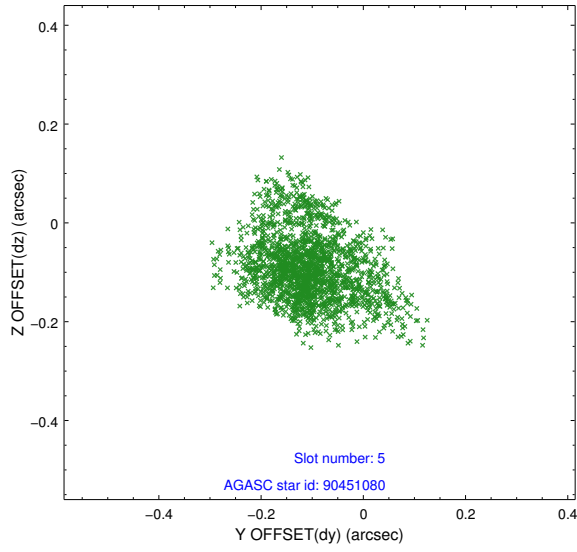
2.4.1 Slot 3



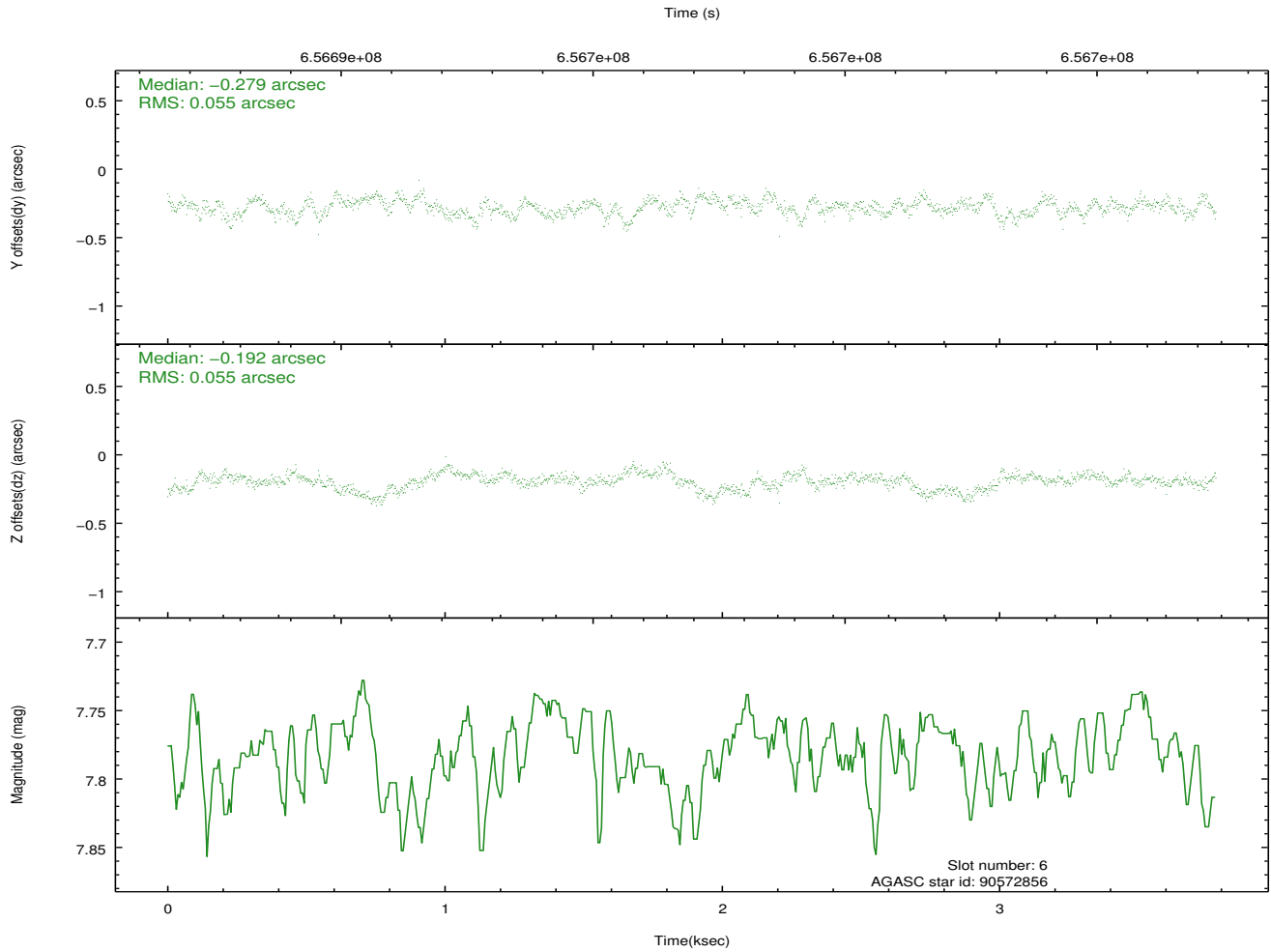
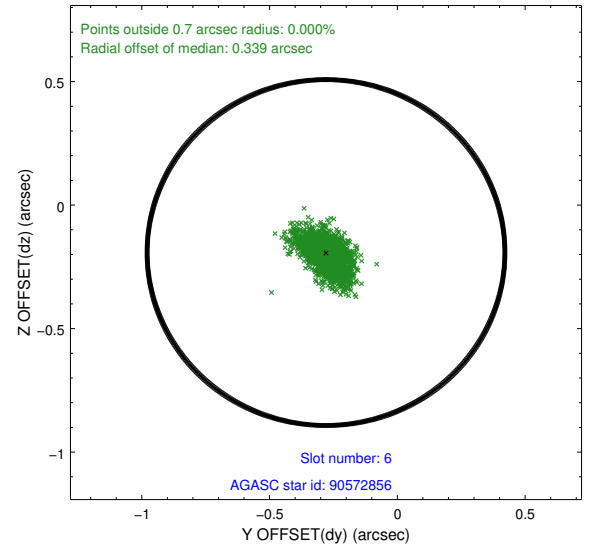
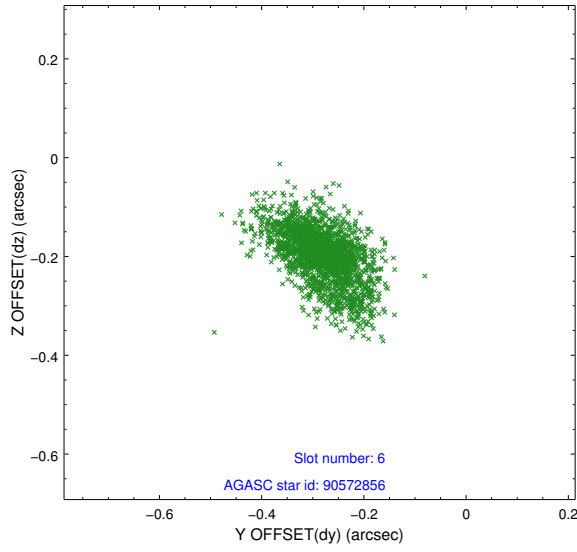
2.4.2 Slot 4



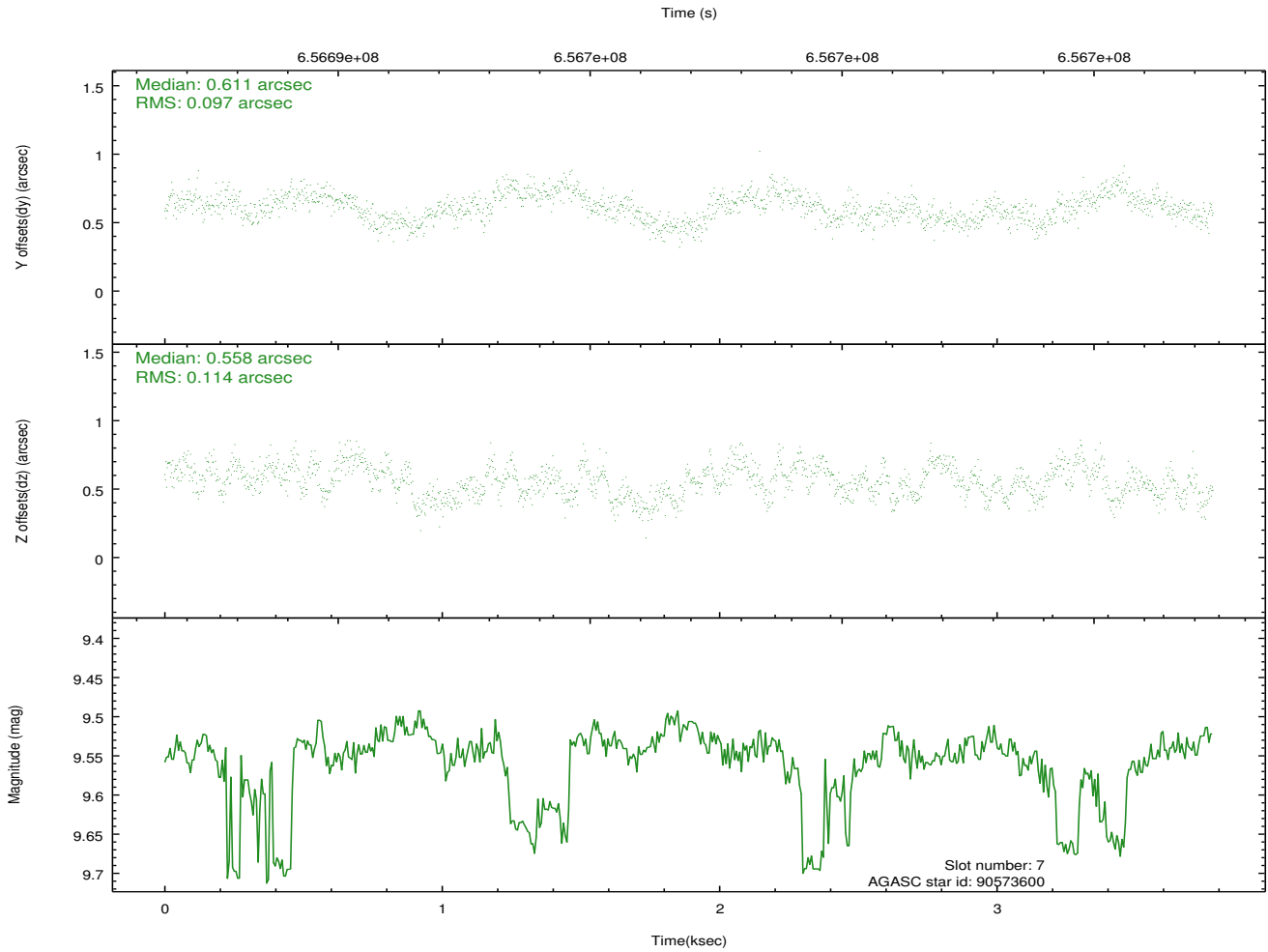
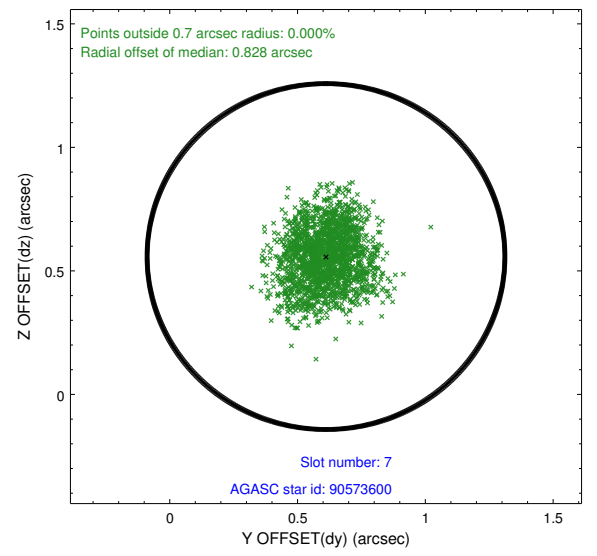
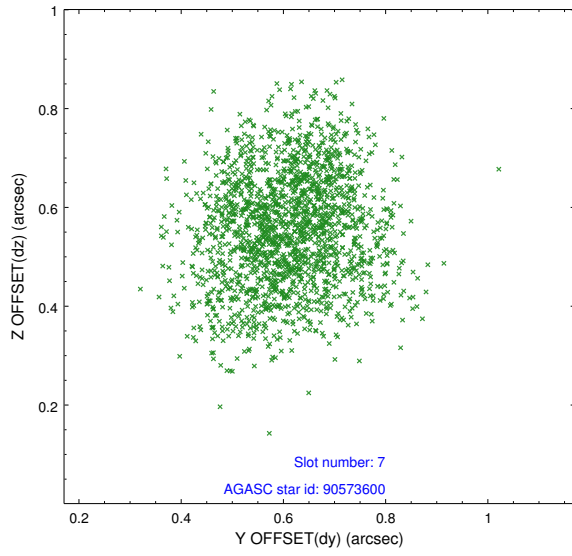
2.4.3 Slot 5



2.4.4 Slot 6

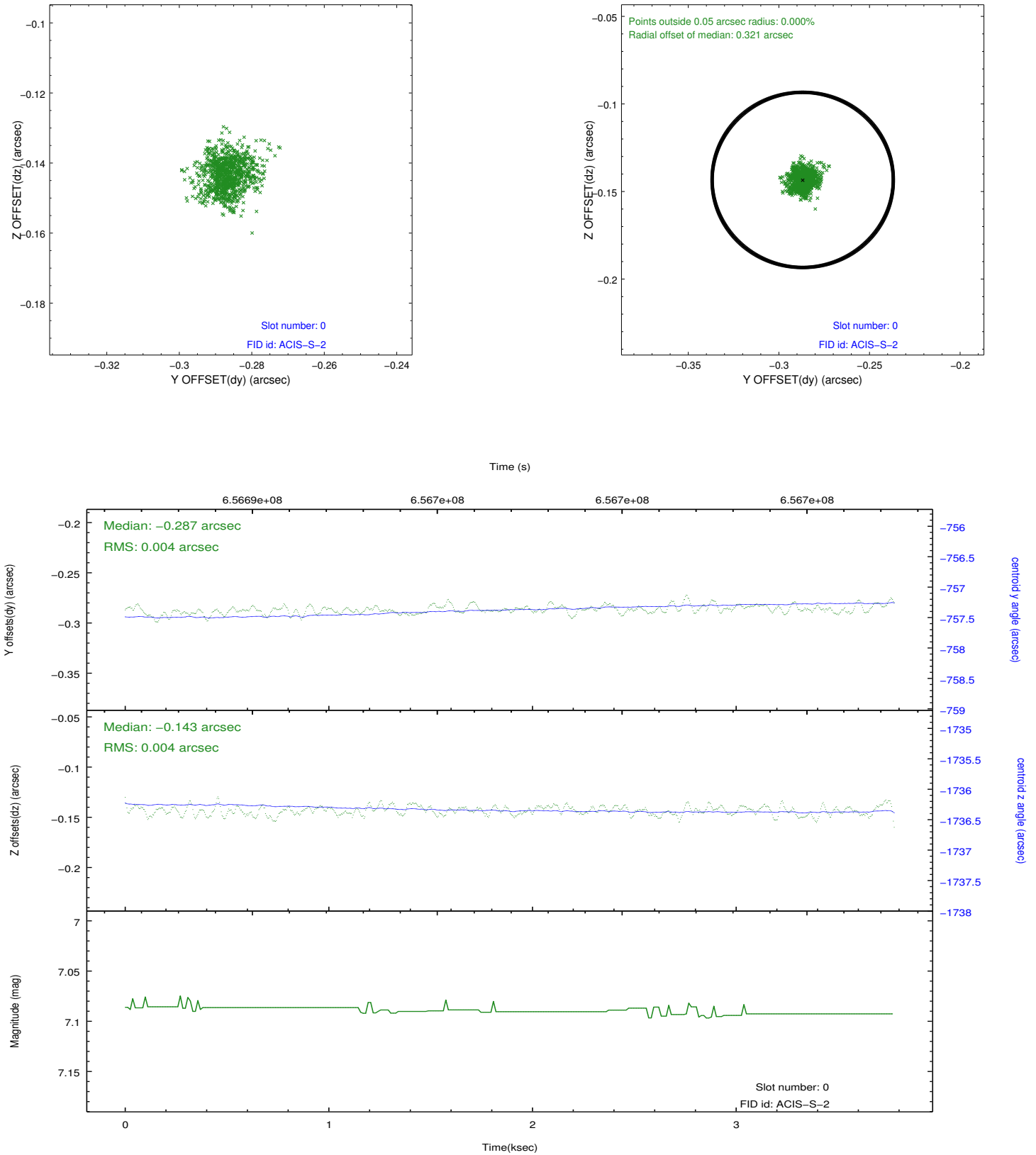


2.4.5 Slot 7

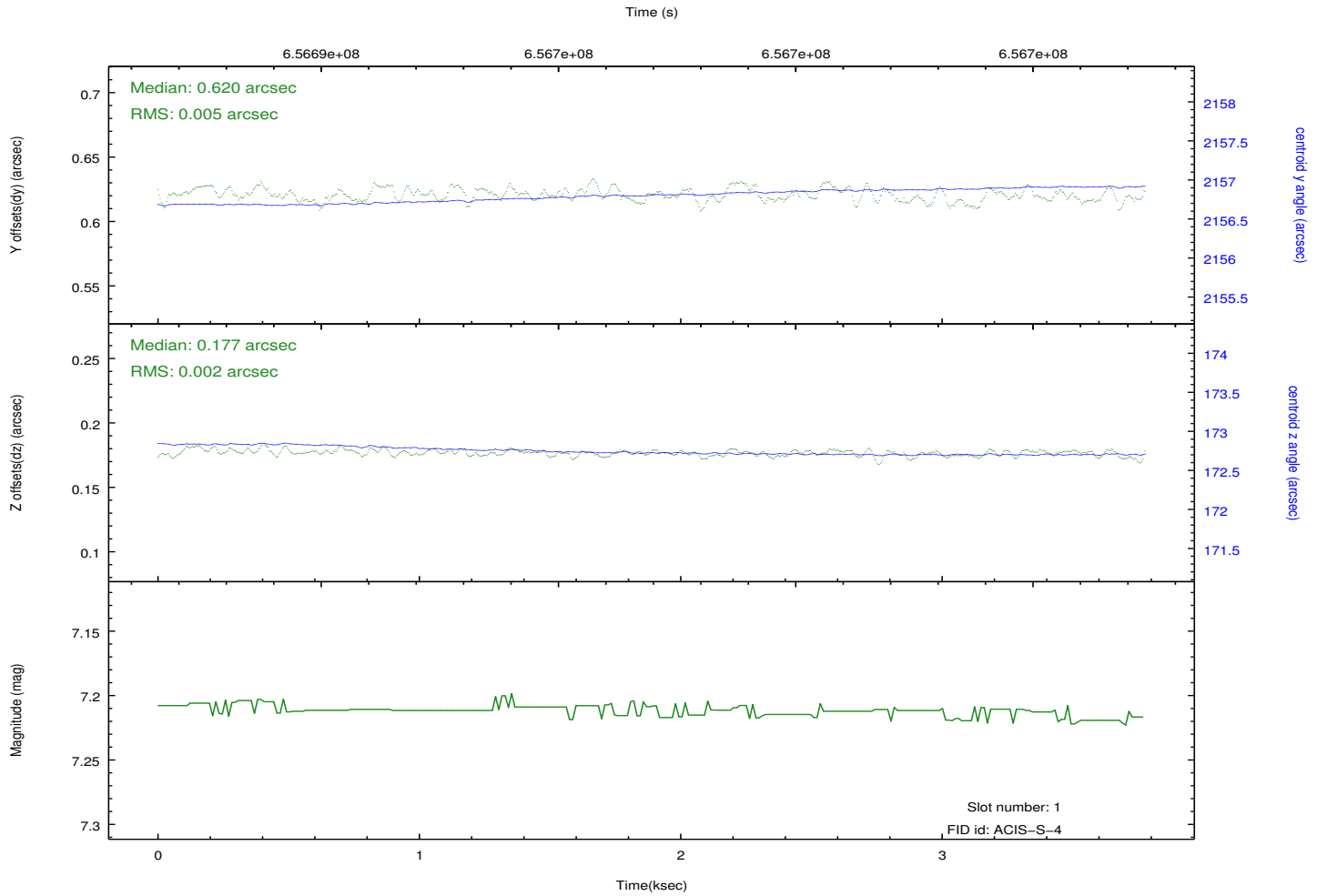
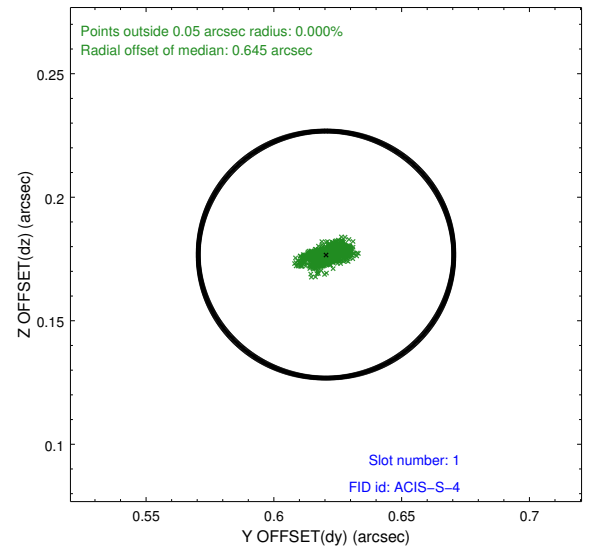
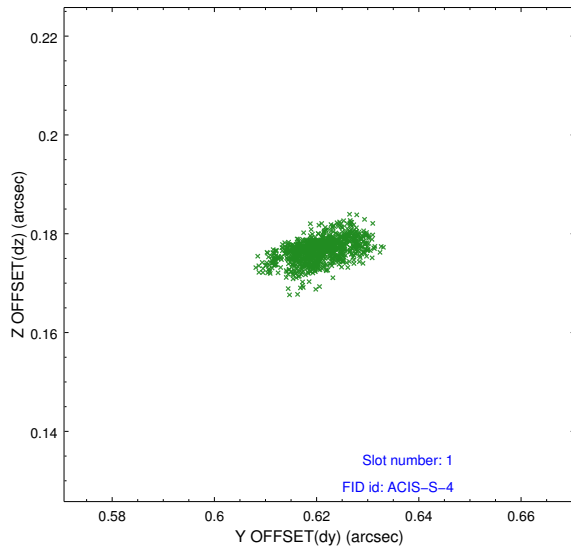


2.5 FID Slots

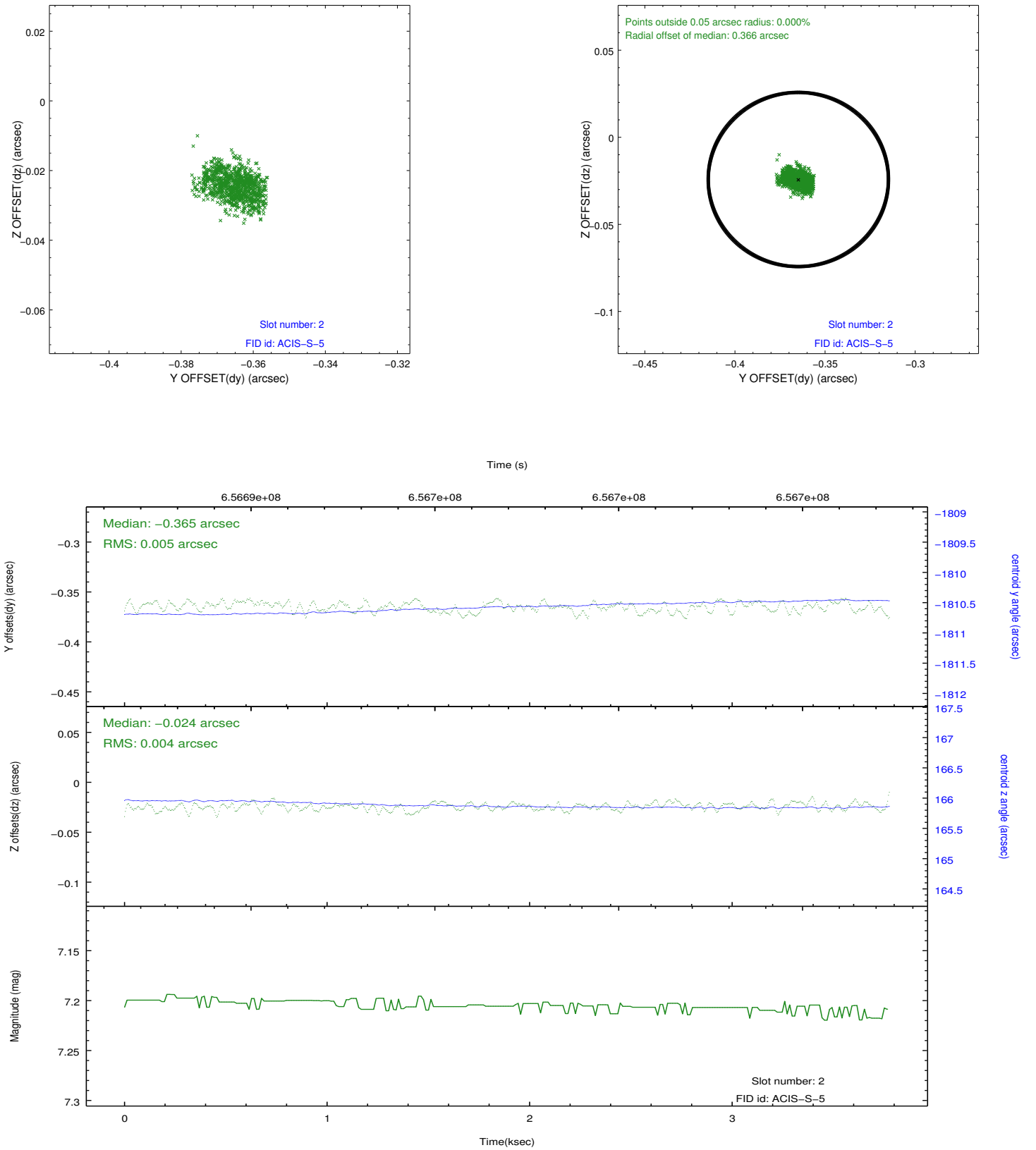
2.5.1 Slot 0



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)	2018.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.703800147295

A.2 Comments