

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18290 - L2 Version 2
Chandra X-Ray Center

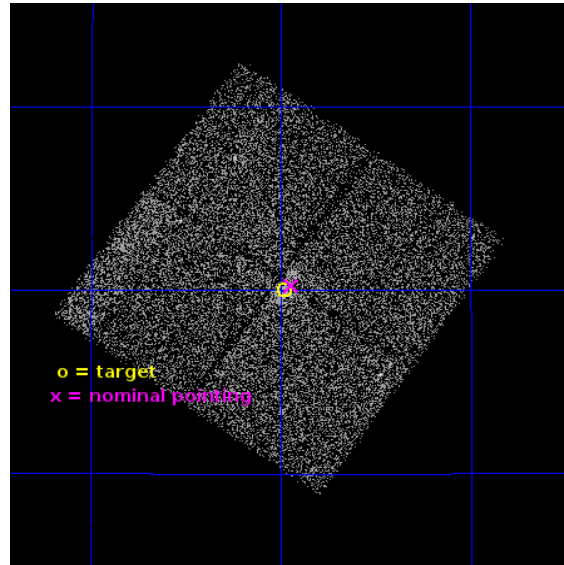
L2 Processing Date : Dec 31 2015

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1 Front

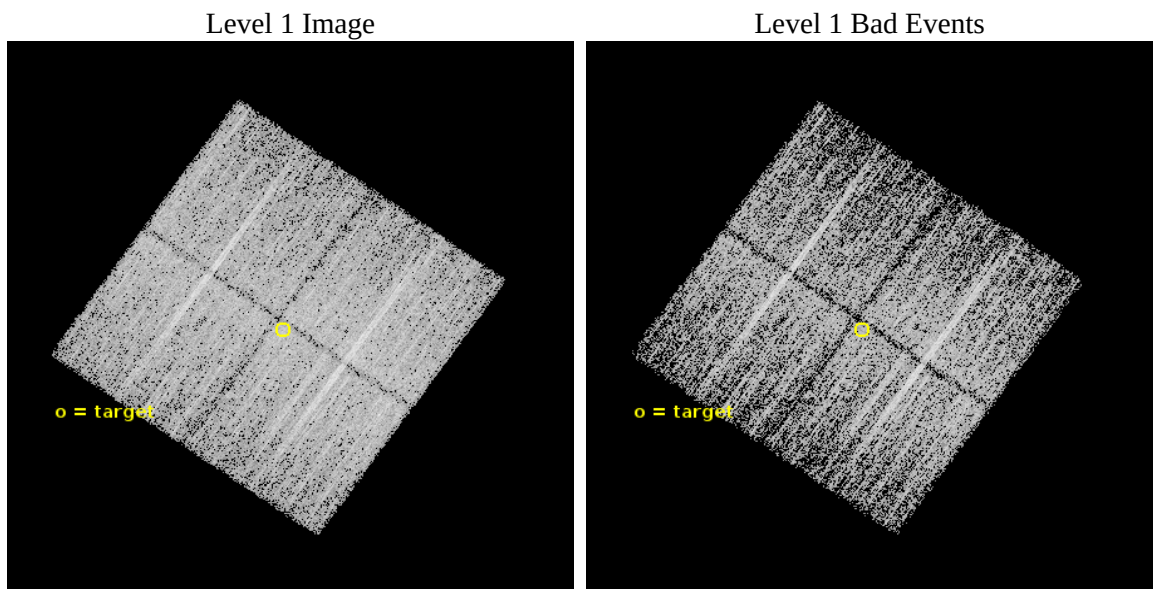
seq_num	801608	Sequence number
obs_id	18290	Observation id
title	Building a Cheap and Cheerful SZ-selected sample of galaxy clusters with the Planck Catalogue.	Proposal title
observer	Dr Mariachiara Rossetti	Principal investigator
object	PSZ2 G170.98+39.45	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.7444	Observer's specified target RA [deg]
dec_targ	48.5007	Observer's specified target Dec [deg]
ra_nom	132.7360637597	Nominal RA [deg]
dec_nom	48.504235742002	Nominal Dec [deg]
roll_nom	125.21496641817	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11085.595631957	Sum of GTIs [s]
livetime	10940.754163929	Livetime [s]
ontime0	11085.472512007	Sum of GTIs [s]
ontime1	11085.51355195	Sum of GTIs [s]
ontime2	11085.554592013	Sum of GTIs [s]
ontime3	11085.595631957	Sum of GTIs [s]
l2events	27823	Number of level 2 events



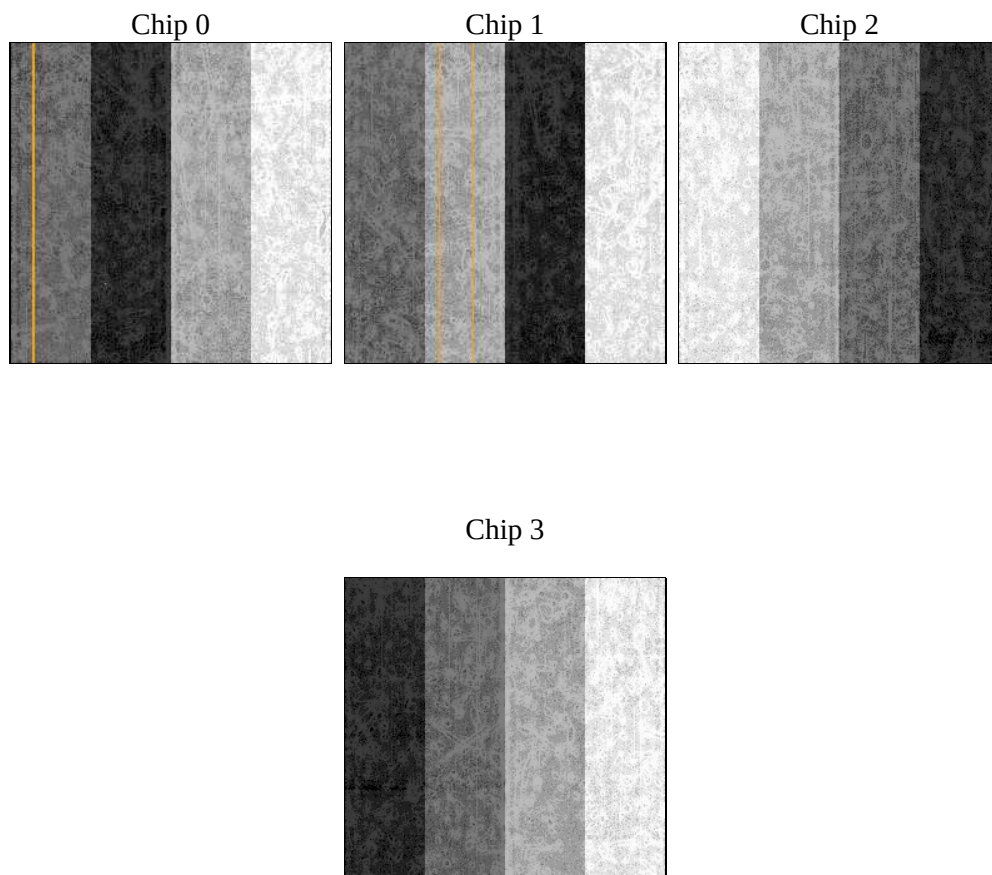
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	11085.595631957	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	11085.472512007	Sum of GTIs [s]
date	2015-12-31T15:13:15	Date and time of file creation	ontime1	11085.51355195	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	11085.554592013	Sum of GTIs [s]
			ontime3	11085.595631957	Sum of GTIs [s]
			l1events	268400	Number of level 1 events

2.1.4 Events

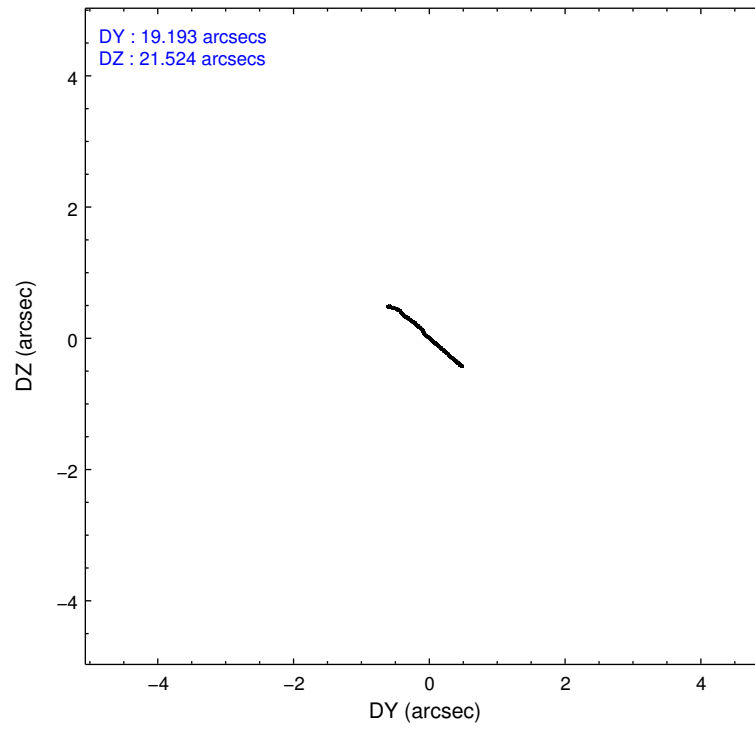
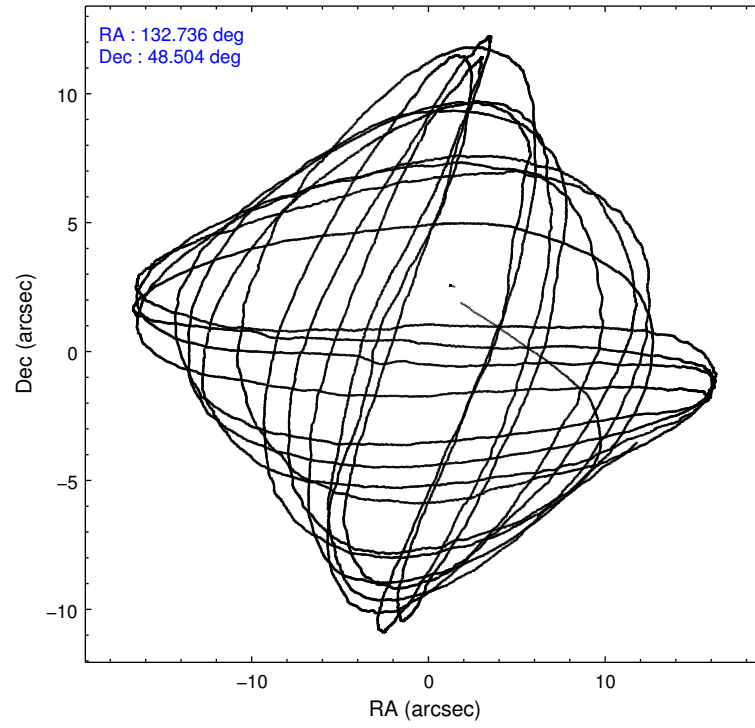
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	61492	66452	71780	68676
rejected events	52859	57498	62686	60686
rejected %	85%	86%	87%	88%

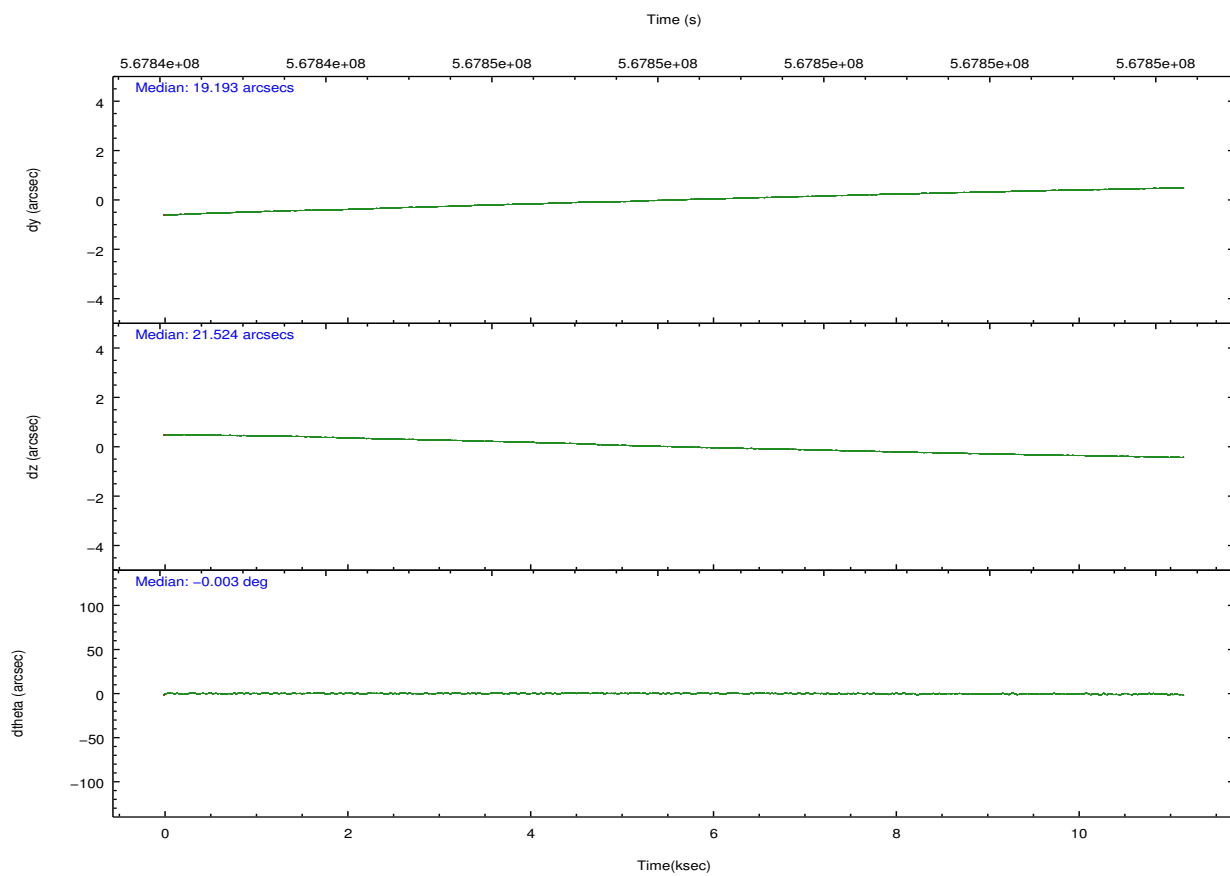
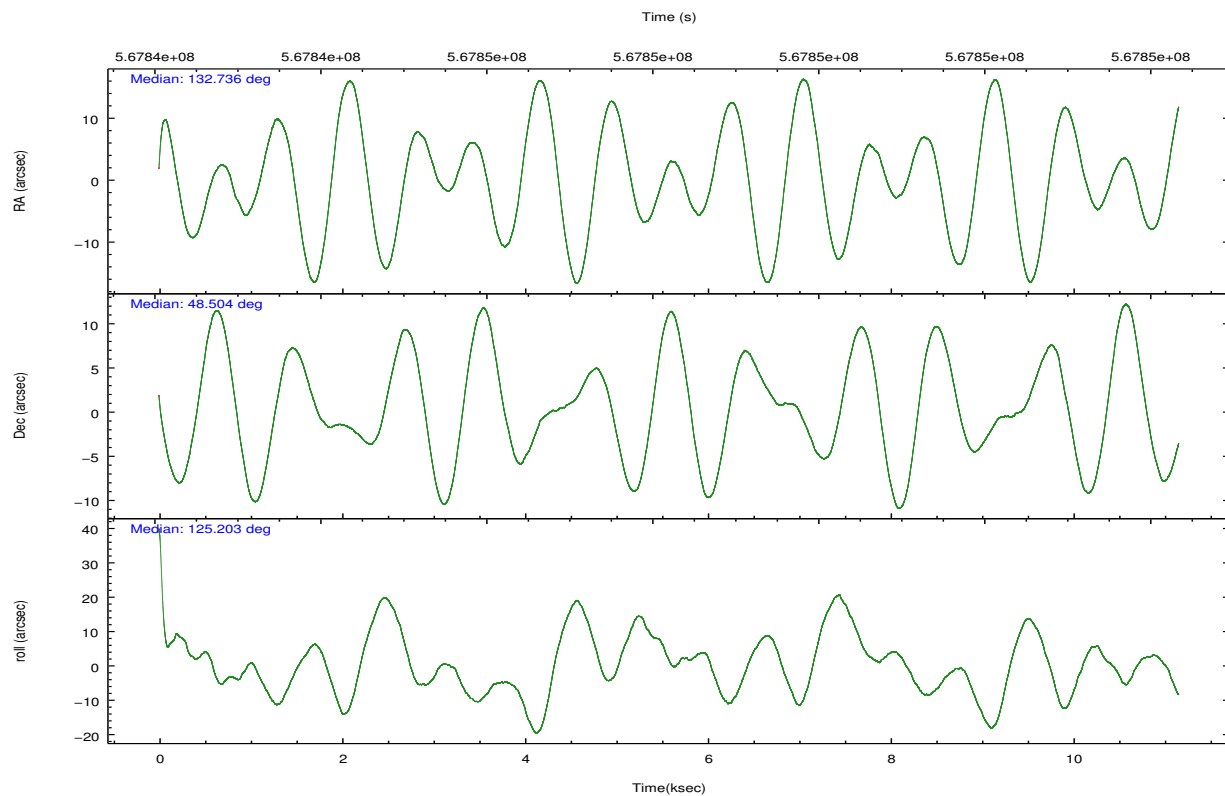
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3322	3192	3716	3172
	5%	4%	5%	4%
grade 1 events	46	31	55	38
	0%	0%	0%	0%
grade 2 events	2067	2295	2169	1743
	3%	3%	3%	2%
grade 3 events	792	792	787	775
	1%	1%	1%	1%
grade 4 events	761	834	925	799
	1%	1%	1%	1%
grade 5 events	2982	3097	2868	3363
	4%	4%	3%	4%
grade 6 events	1697	1843	1502	1507
	2%	2%	2%	2%
grade 7 events	49825	54368	59758	57279
	81%	81%	83%	83%

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	132.773980	132.7360637597027	Subarray requested	NONE	NONE
[deg] Pointing Dec	48.492785	48.50423574200212	Alternating exposures requested	N	N
[deg] Pointing Roll	124.977845	125.214966418172	[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)	567842768.184000	567841357.3062299			
Observation start date	2015-12-30T06:05:00	2015-12-30T05:42:37			
[s] Observation end time (MET)	567853768.184000	567854742.26949			
Observation end date	2015-12-30T09:08:20	2015-12-30T09:25:42			
Read mode	TIMED	TIMED			

2.3 Aspect



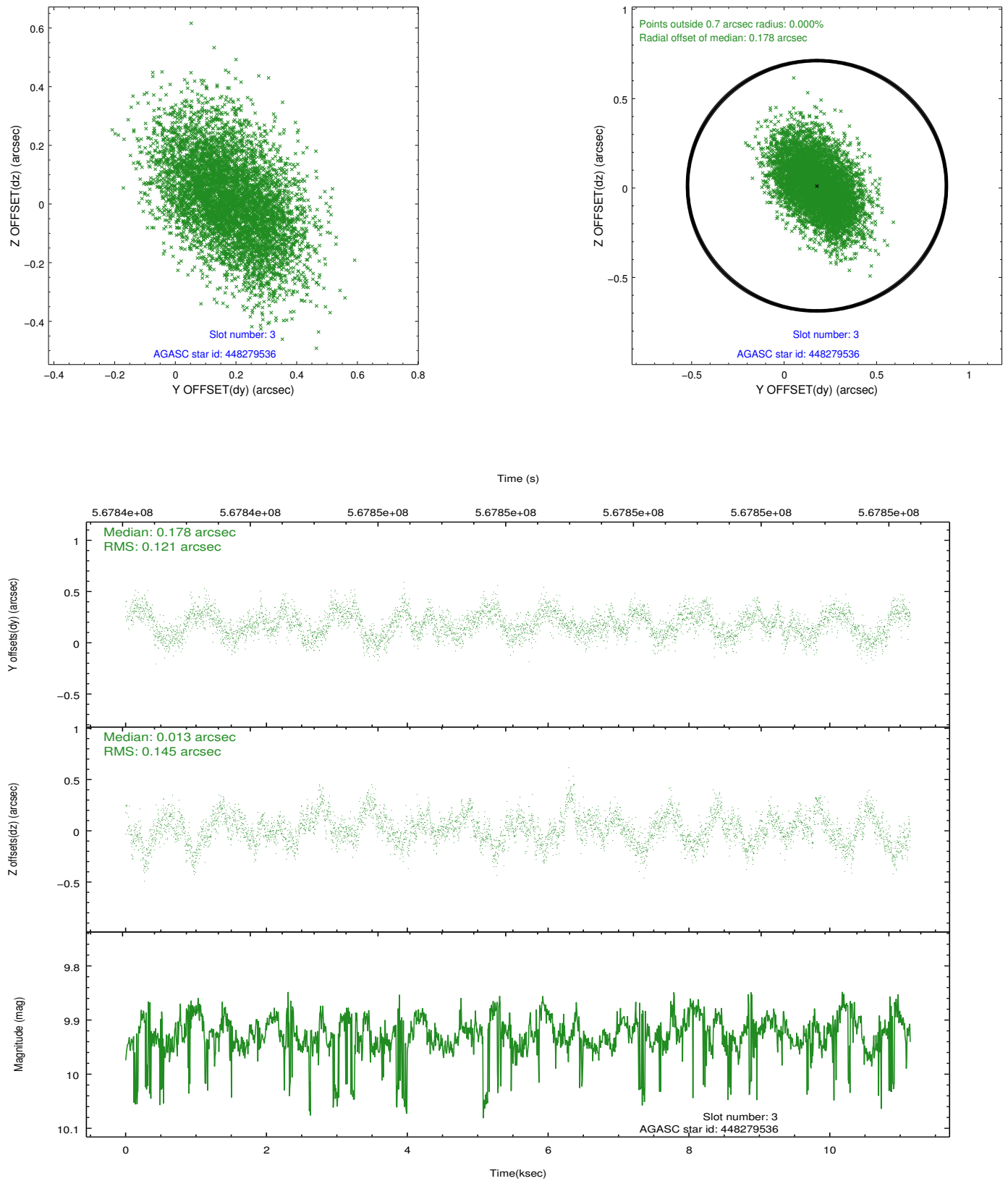


Slot Statistics

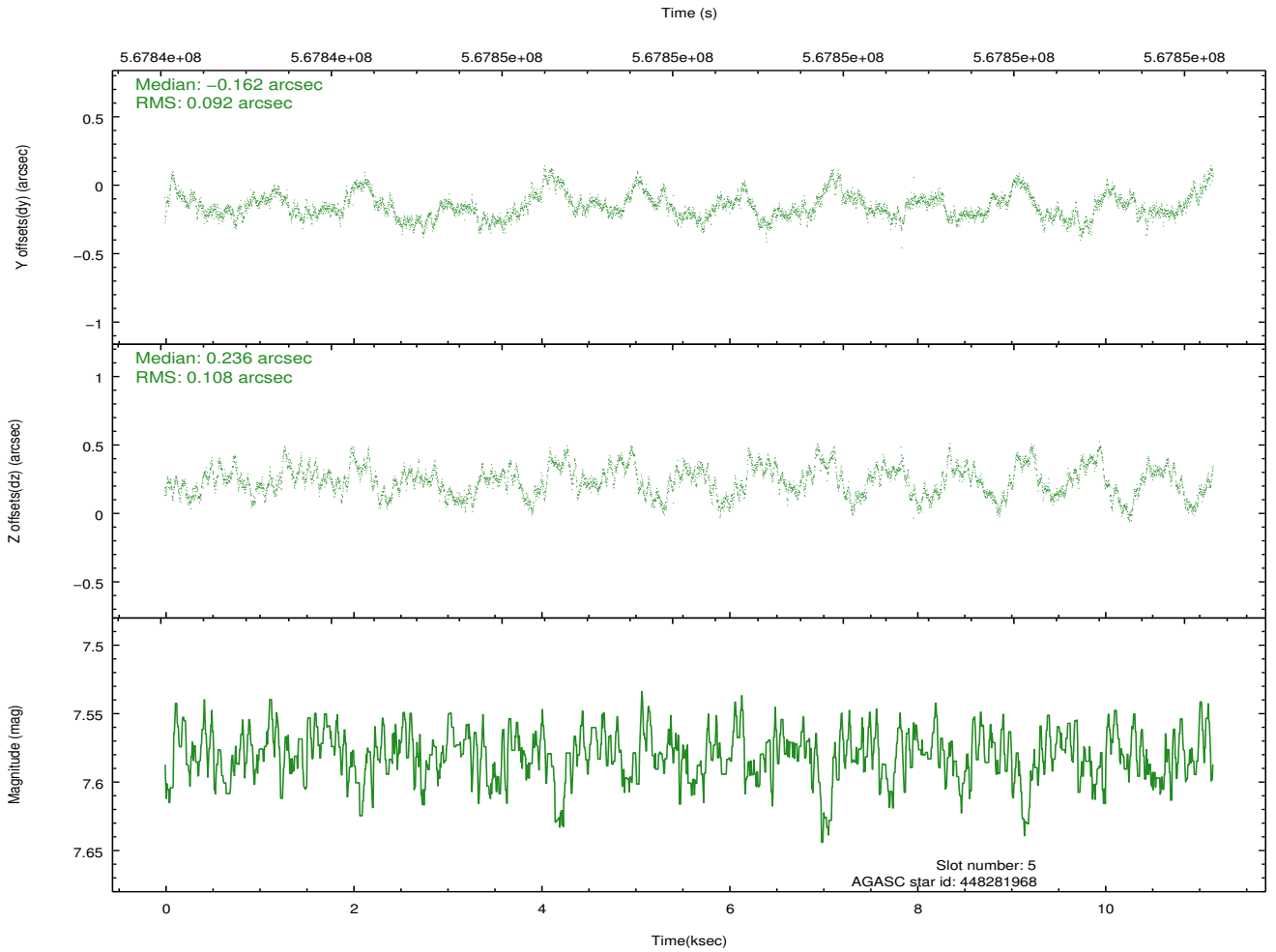
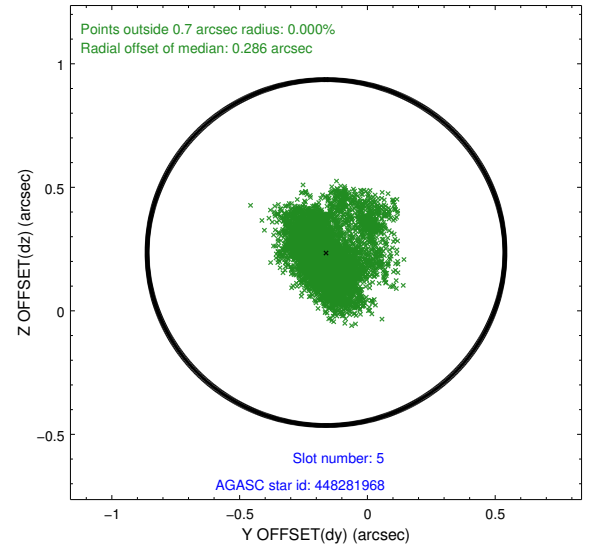
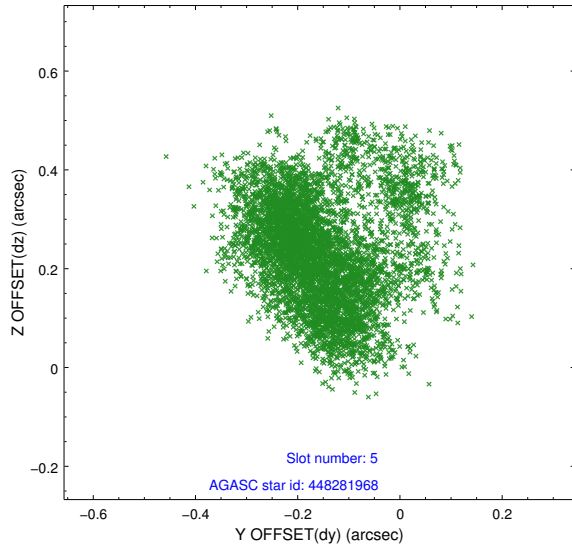
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	2722	0.097	-0.068	0.015	0.026	0.000000	0.000000	920.28	-845.37
1	FID		ACIS-I-5	7.25	2721	-0.362	0.053	0.009	0.016	0.000000	0.000000	-1828.08	1051.95
2	FID		ACIS-I-6	7.26	2721	0.173	0.086	0.018	0.029	0.000000	0.000000	385.34	1697.05
3	GUIDE	used	448279536	9.93	5409	0.178	0.013	0.199	0.331	132.690707	47.977101	-1407.07	1229.97
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	448281968	7.58	5443	-0.162	0.236	0.153	0.245	132.815842	48.584035	211.98	-269.17
6	GUIDE	used	448283328	9.60	5435	-0.110	-0.197	0.319	0.440	132.184800	48.000948	-632.97	2174.59
7	GUIDE	used	448279552	10.23	5422	0.114	-0.012	0.250	0.434	132.238149	48.018672	-654.87	2033.83

2.4 Star Slots

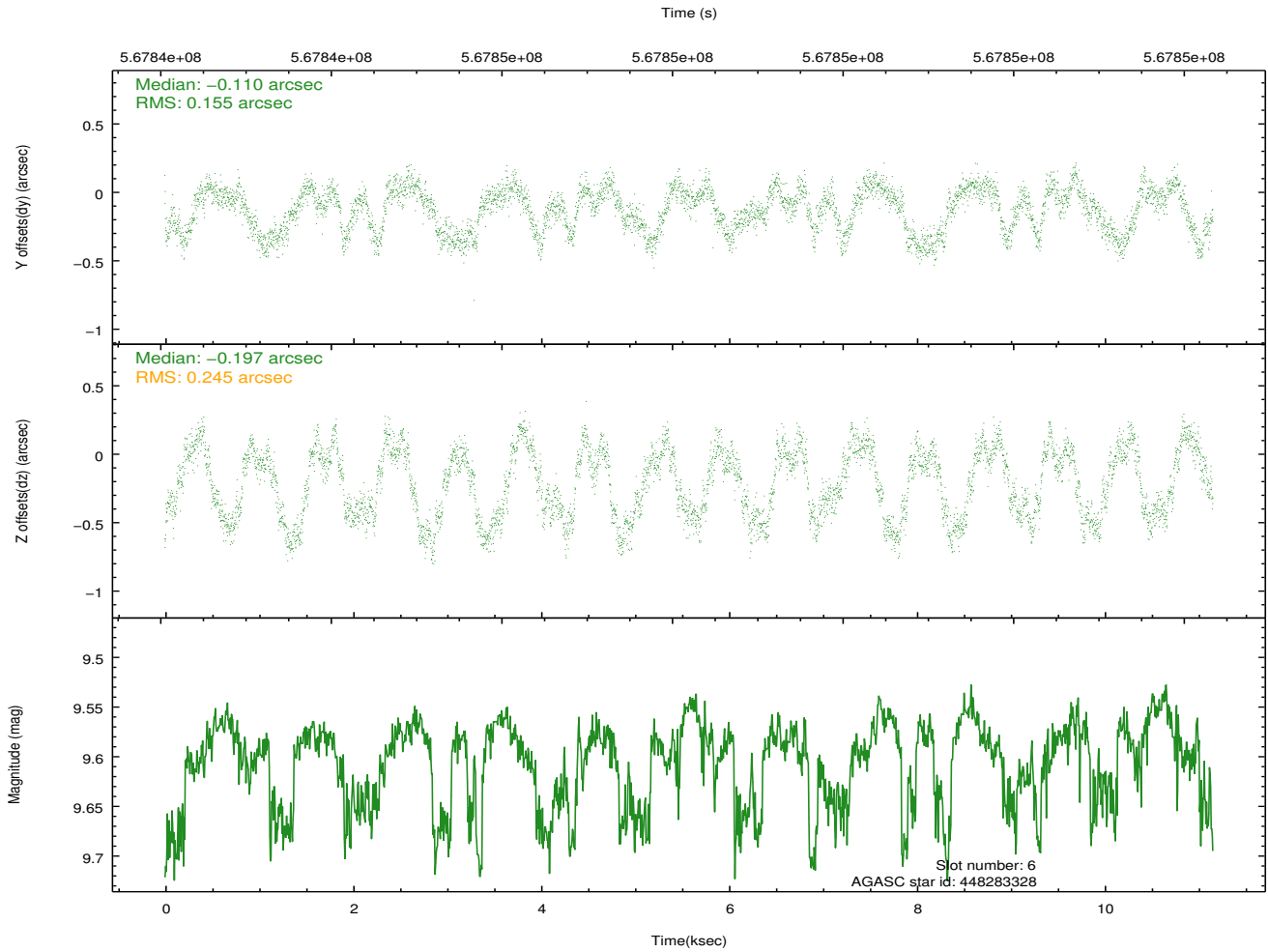
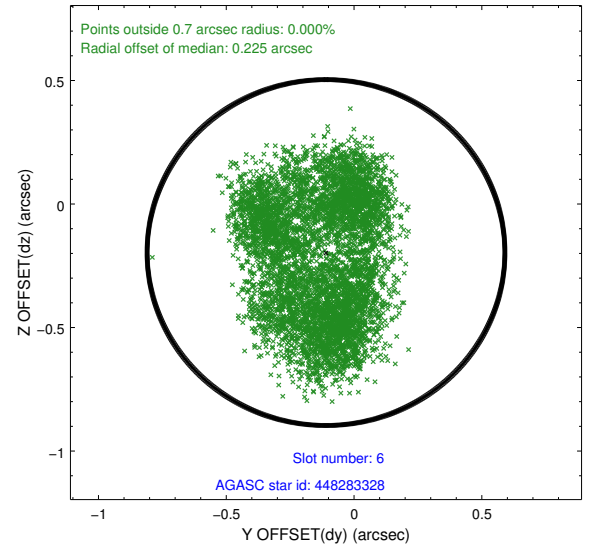
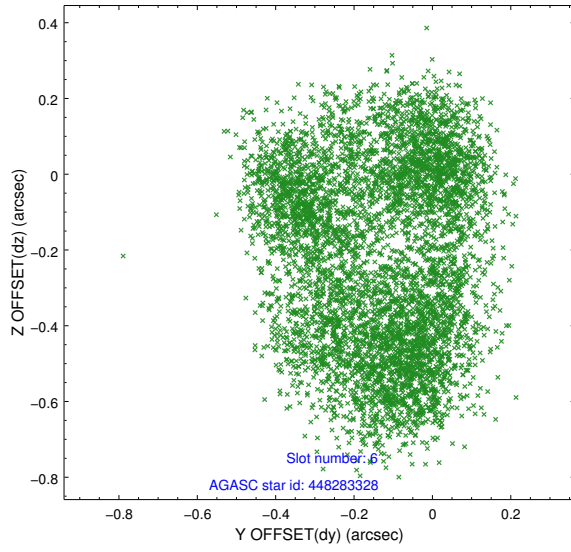
2.4.1 Slot 3



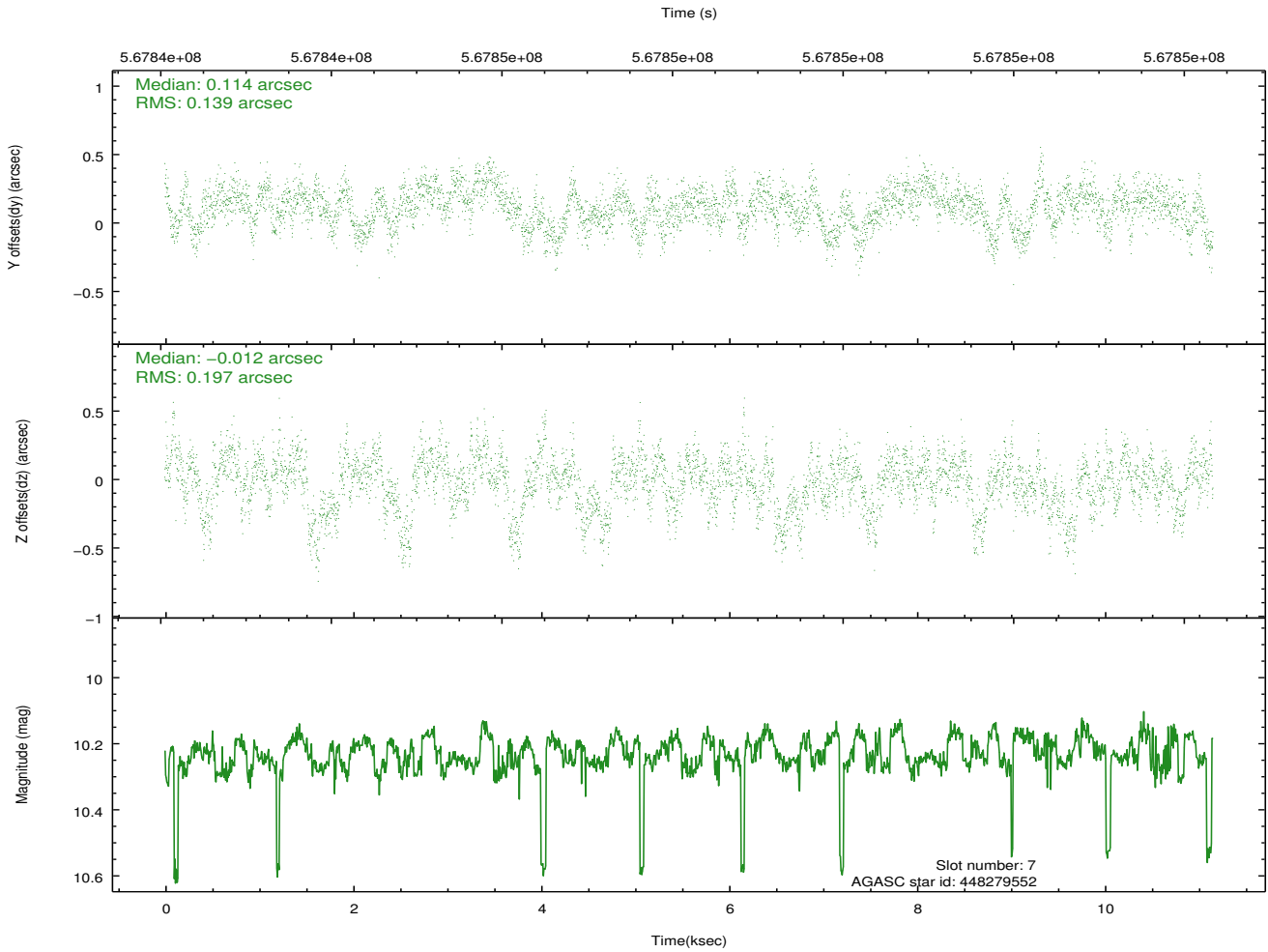
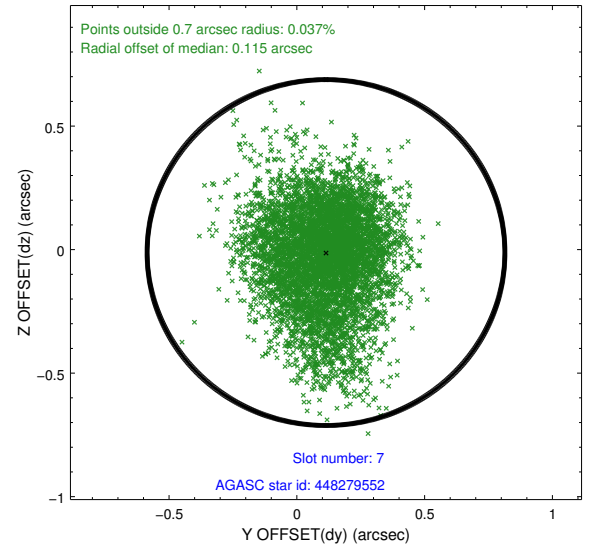
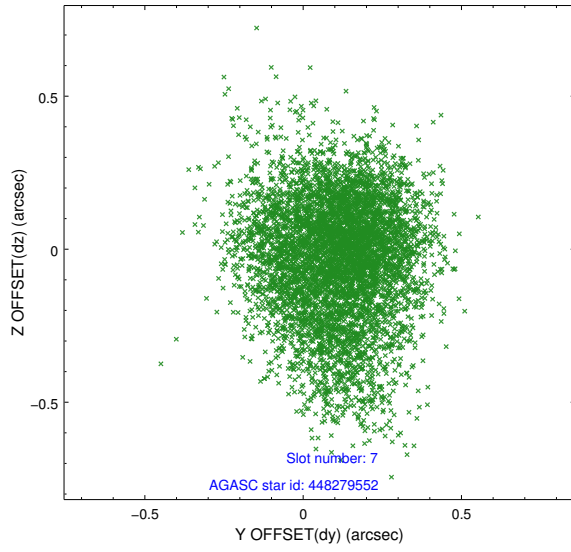
2.4.2 Slot 5



2.4.3 Slot 6

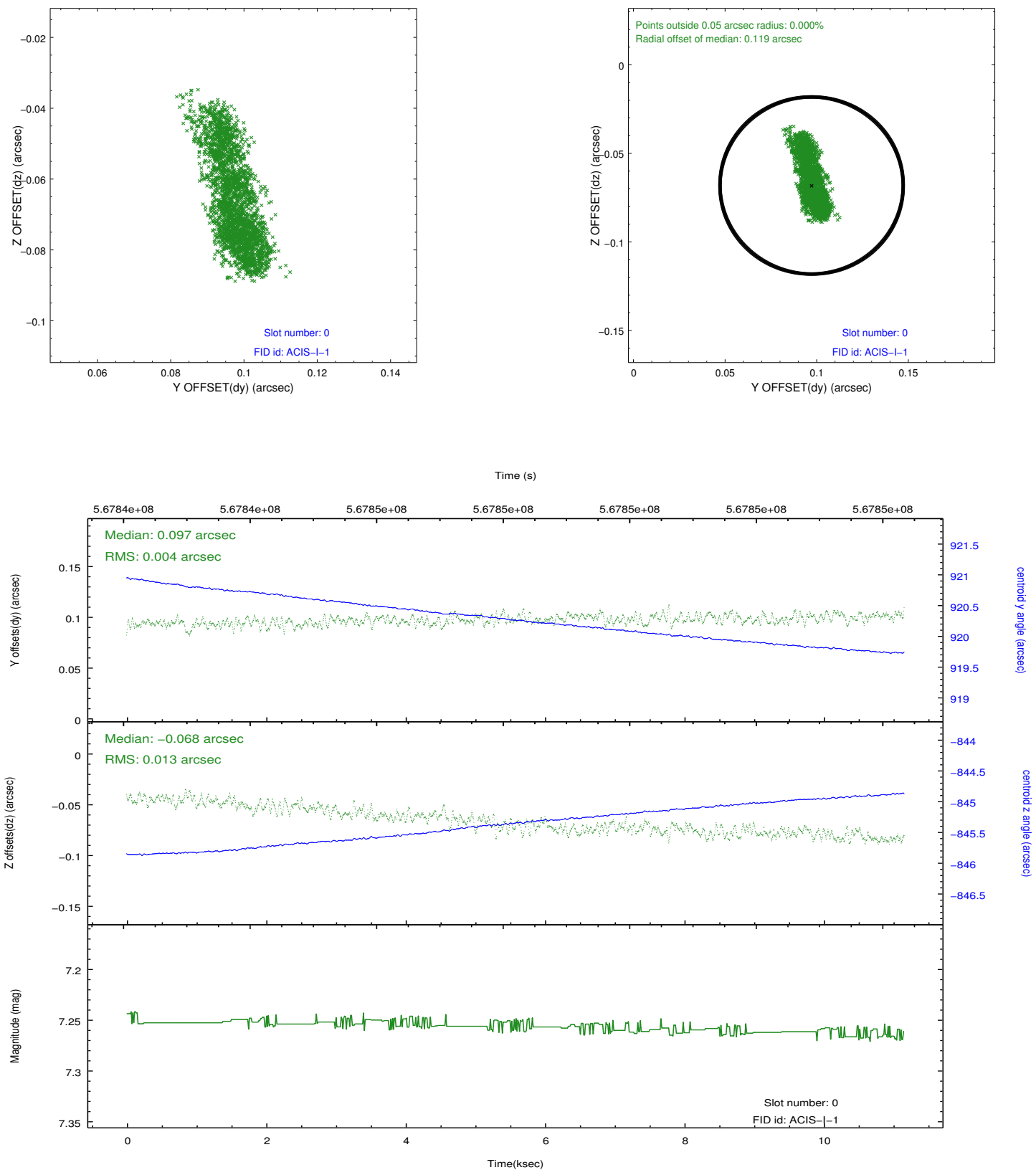


2.4.4 Slot 7

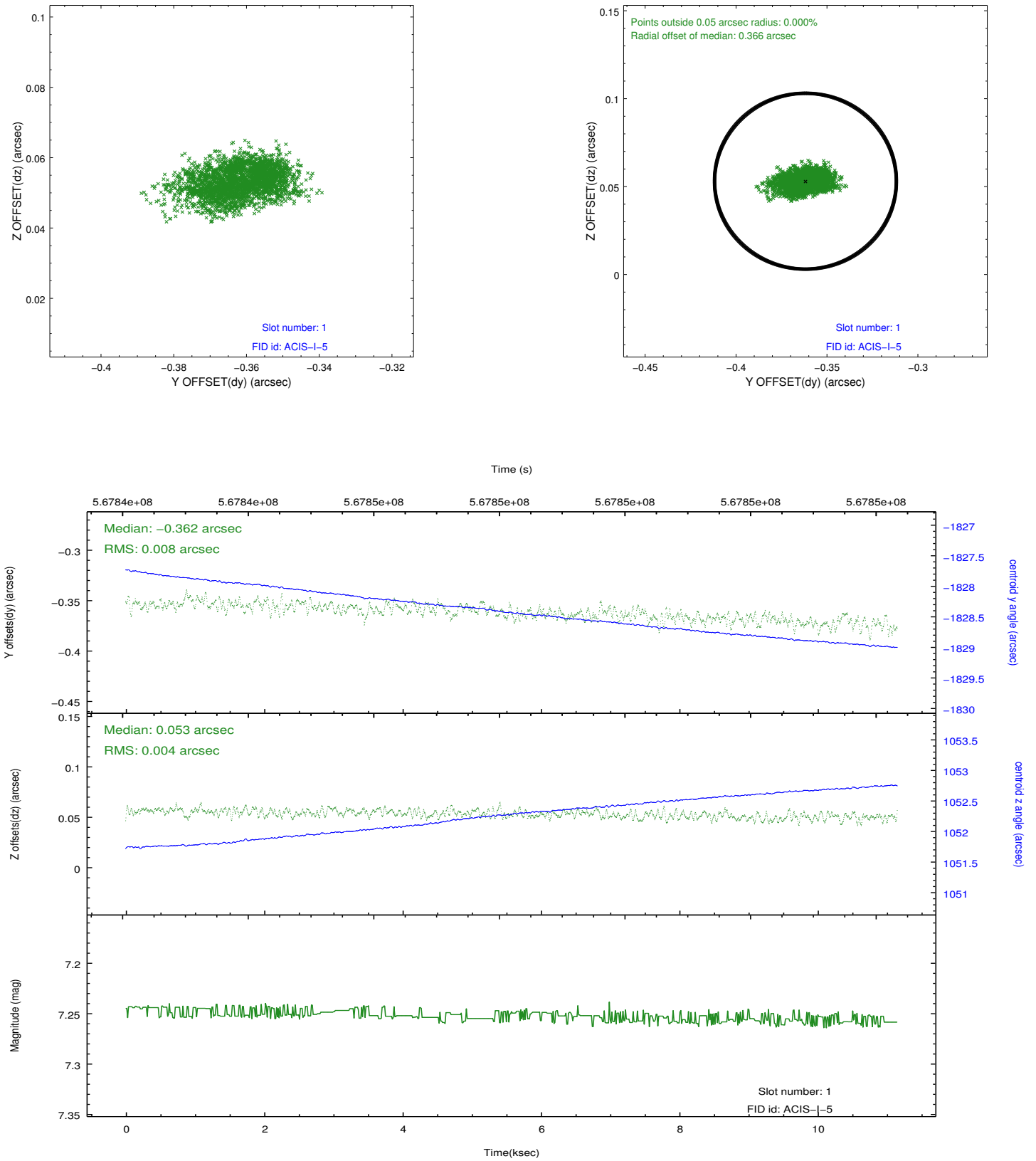


2.5 FID Slots

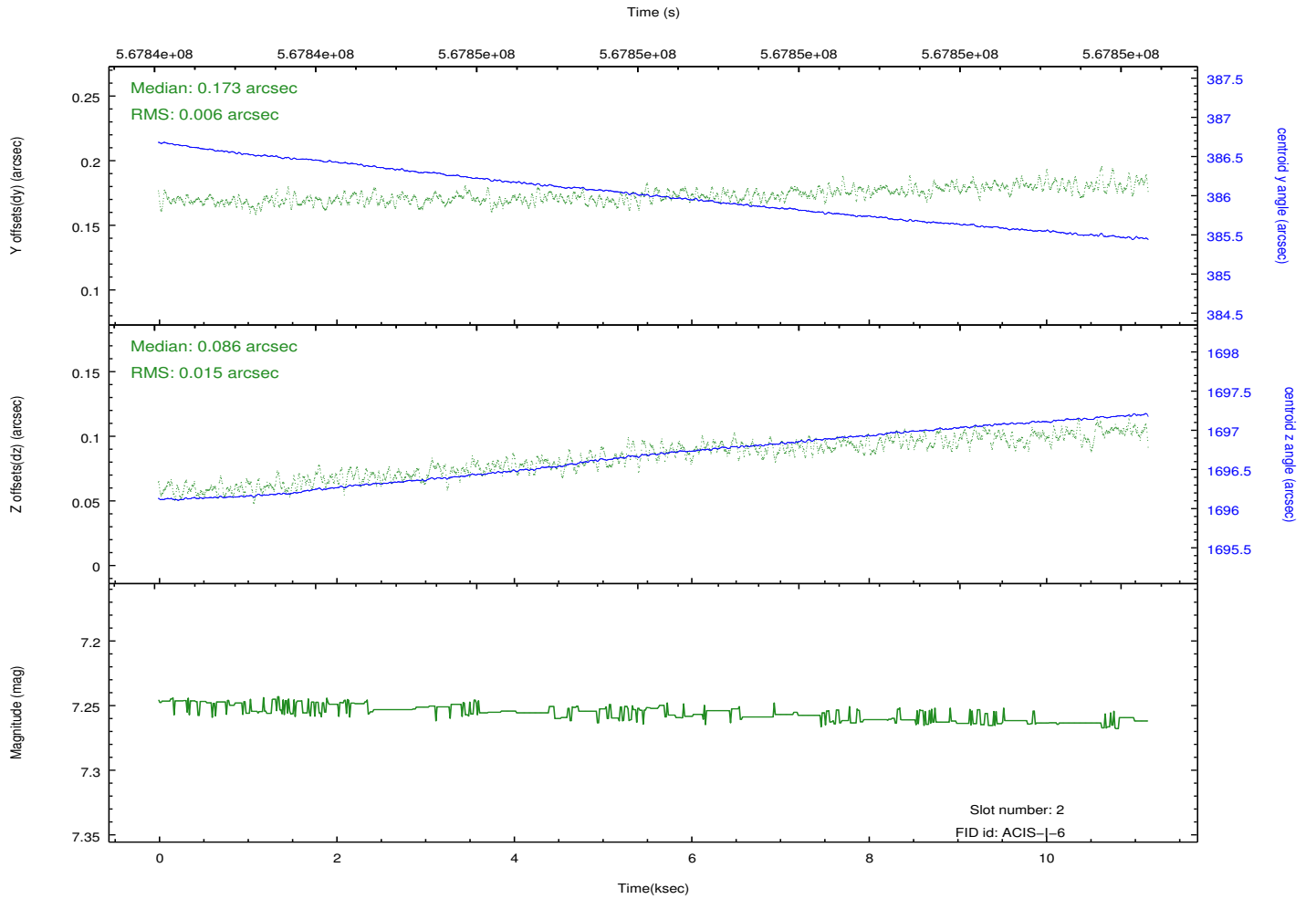
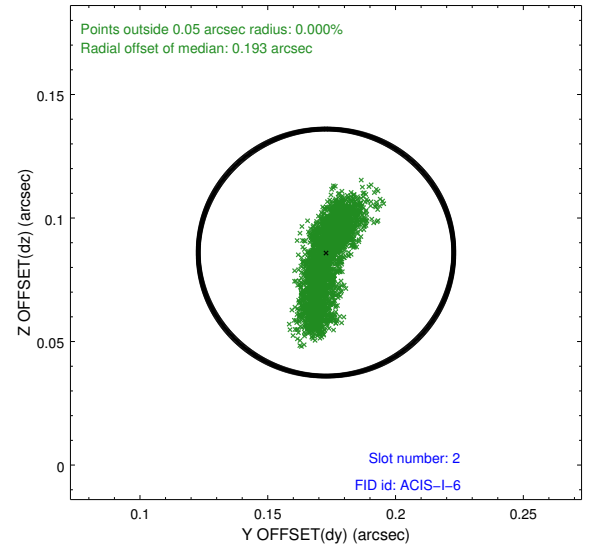
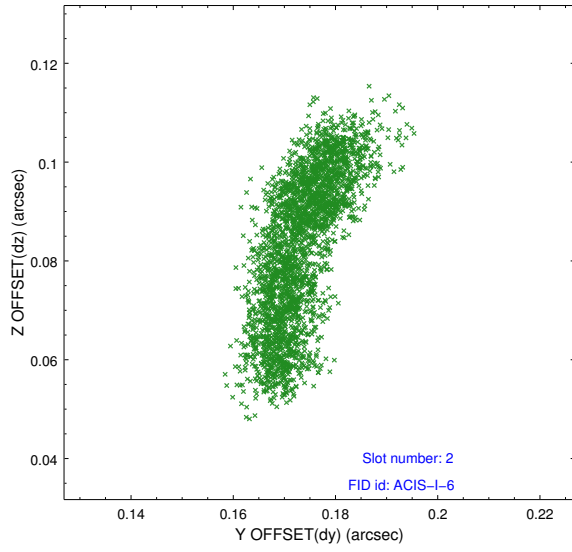
2.5.1 Slot 0



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)	2015.12.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.085595631957

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.