

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18291 - L2 Version 2
Chandra X-Ray Center

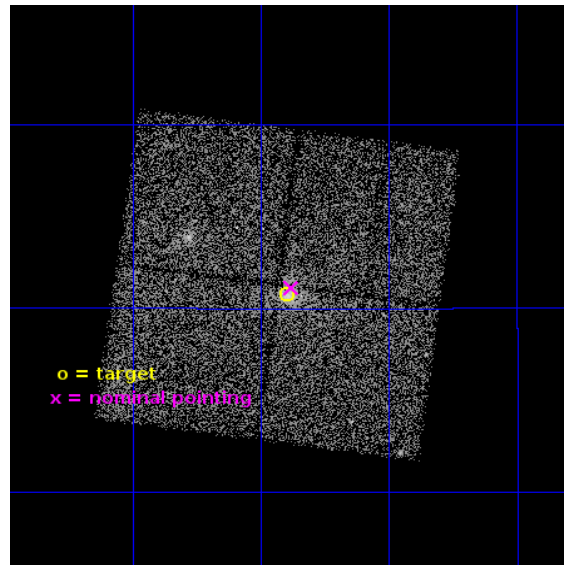
L2 Processing Date : Feb 9 2016

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 4	9
2.4.2	Slot 5	10
2.4.3	Slot 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

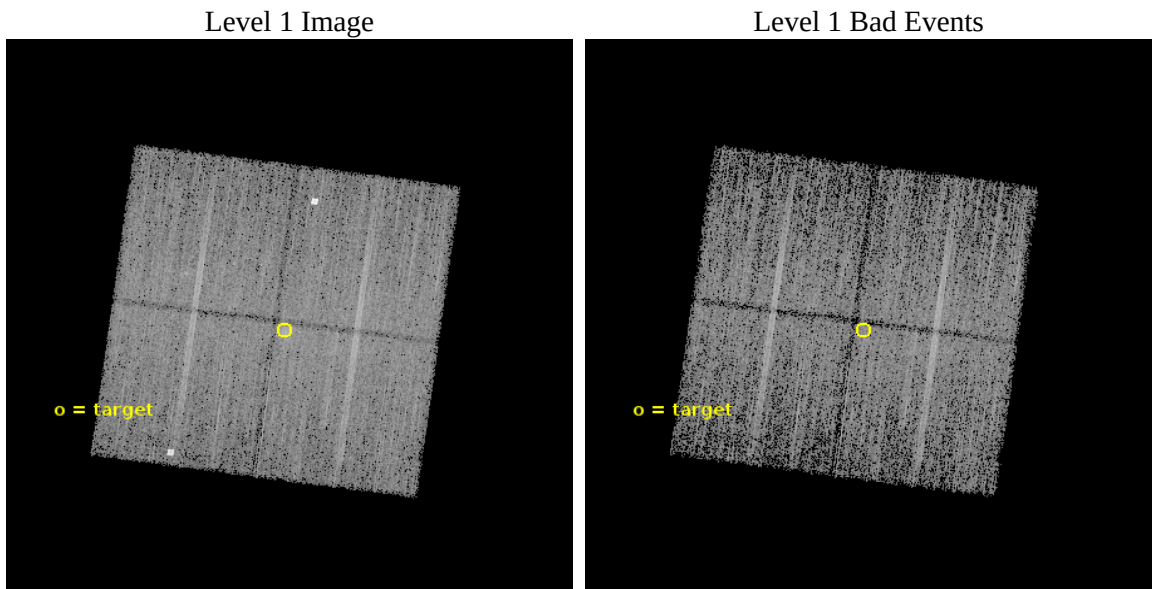
seq_num	801609	Sequence number
obs_id	18291	Observation id
title	Building a Cheap and Cheerful SZ-selected sample of galaxy clusters with the Planck Catalogue.	Proposal title
observer	Dr Mariachiara Rossetti	Principal investigator
object	PSZ2 G213.39+80.59	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.3487	Observer's specified target RA [deg]
dec_targ	26.6796	Observer's specified target Dec [deg]
ra_nom	182.34509008164	Nominal RA [deg]
dec_nom	26.68531406654	Nominal Dec [deg]
roll_nom	97.734278540026	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16085.298209667	Sum of GTIs [s]
livetime	15875.131946734	Livetime [s]
ontime0	16085.175089717	Sum of GTIs [s]
ontime1	16085.216129661	Sum of GTIs [s]
ontime2	16085.257169724	Sum of GTIs [s]
ontime3	16085.298209667	Sum of GTIs [s]
l2events	37718	Number of level 2 events



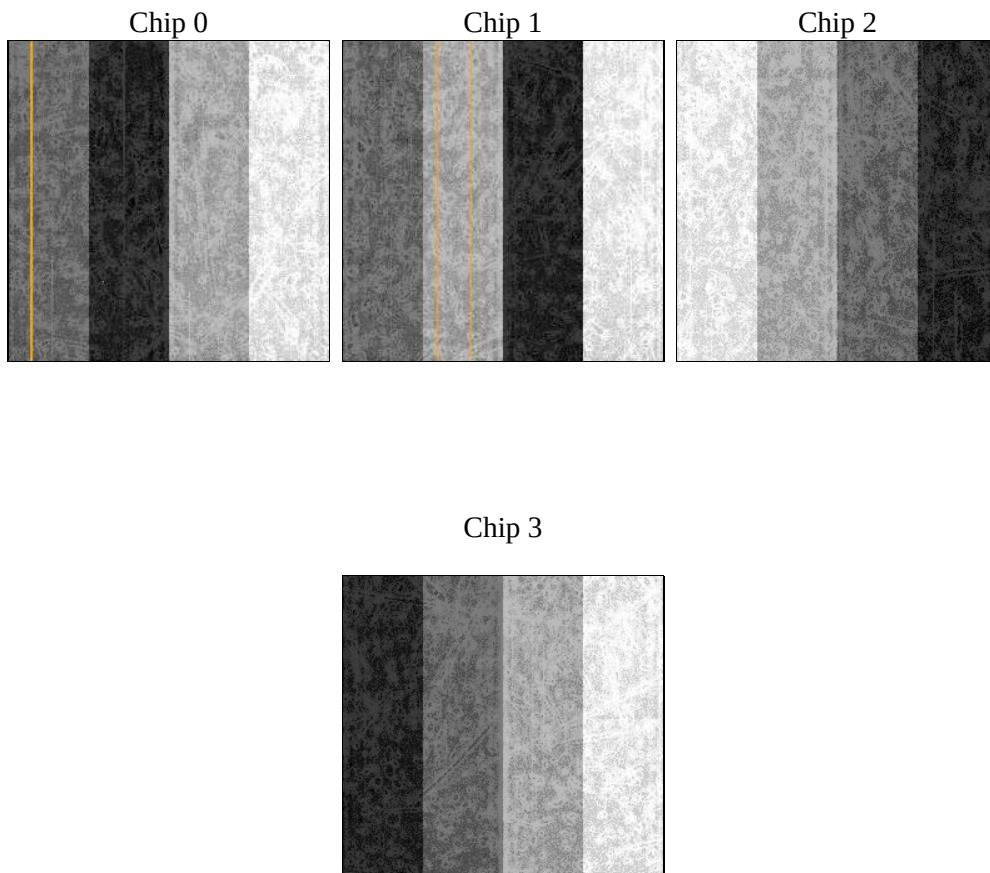
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	16085.298209667	Sum of GTIs [s]
caldbver	4.7.0	 	ontime0	16085.175089717	Sum of GTIs [s]
date	2016-02-09T22:50:01	Date and time of file creation	ontime1	16085.216129661	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	16085.257169724	Sum of GTIs [s]
			ontime3	16085.298209667	Sum of GTIs [s]
			l1events	382984	Number of level 1 events

2.1.4 Events

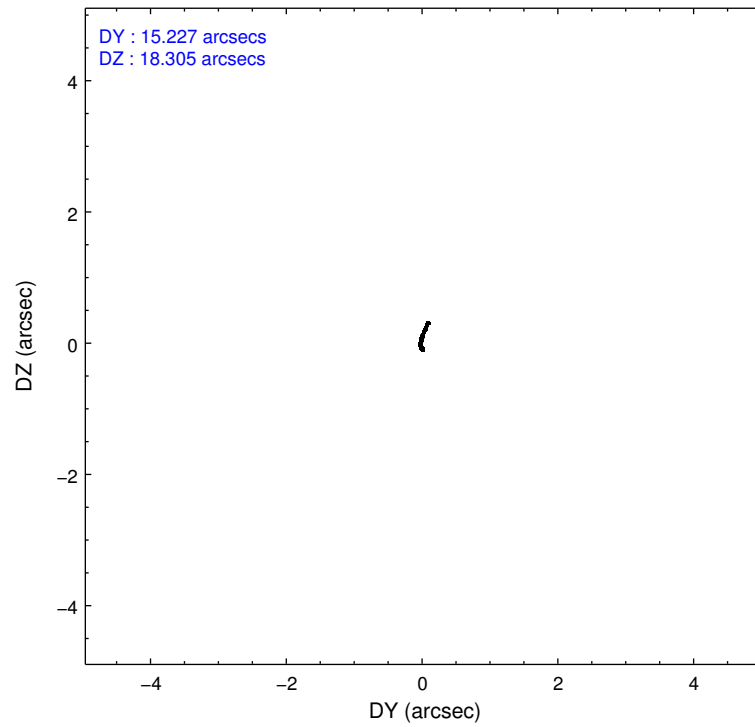
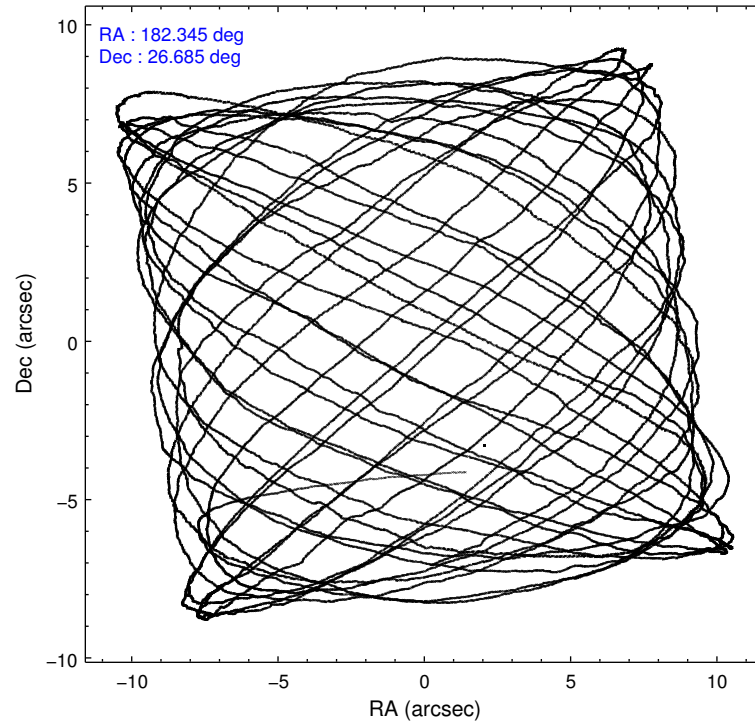
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	91067	92536	102320	97061
rejected events	79961	77969	86962	85781
rejected %	87%	84%	84%	88%

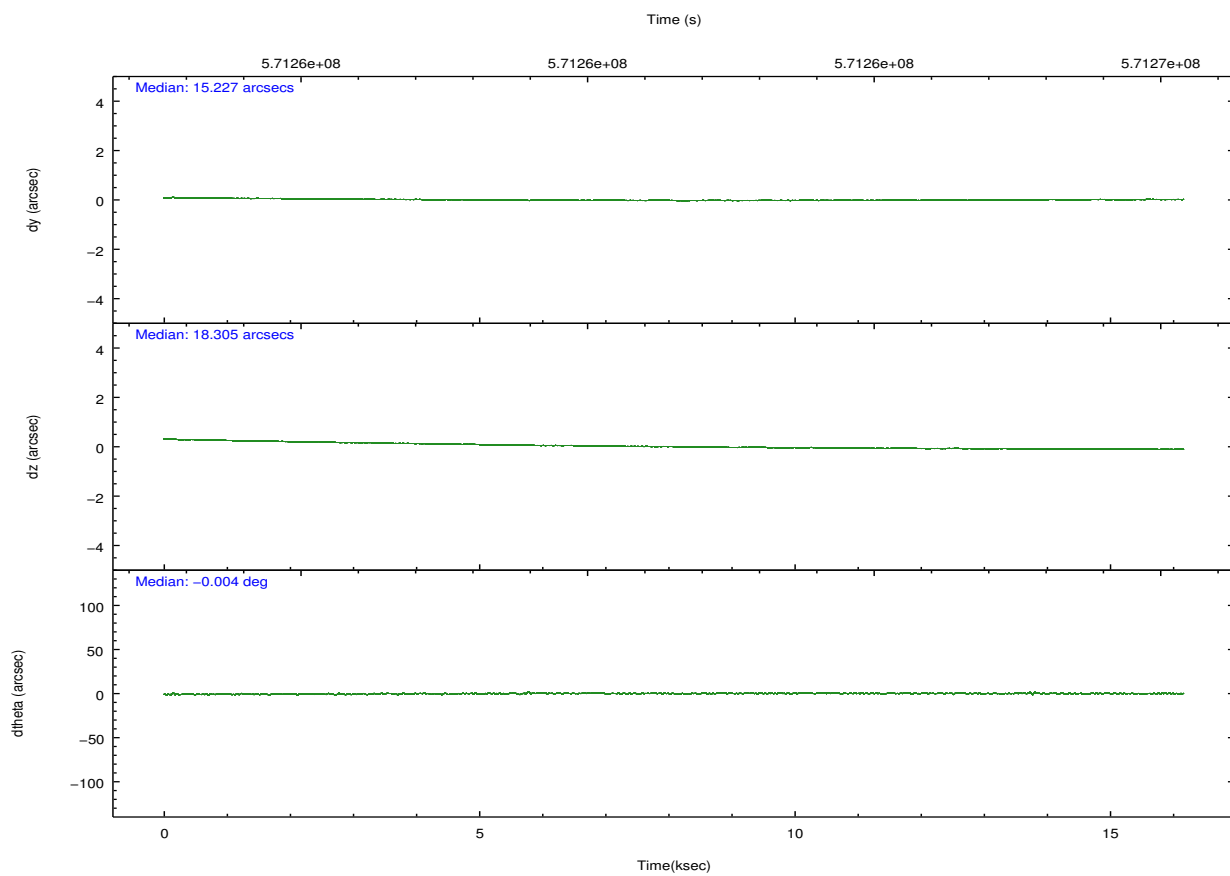
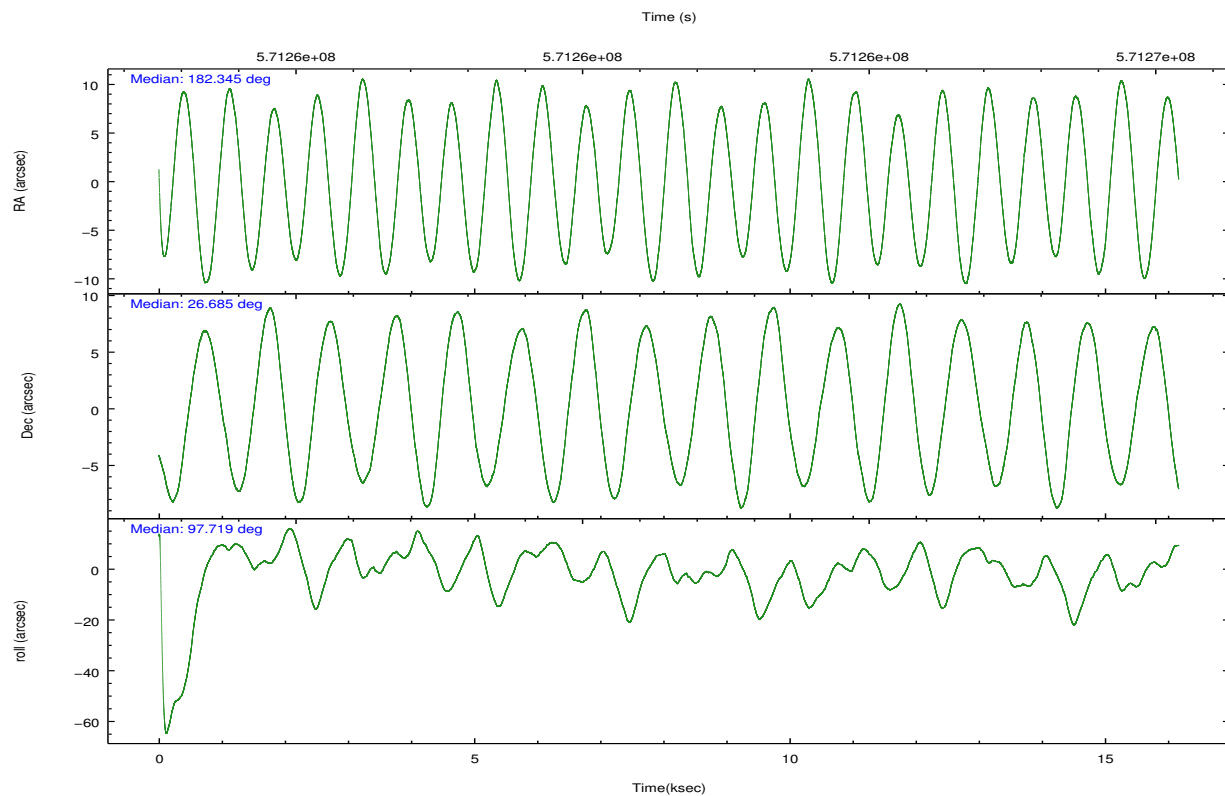
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4023	6849	8904	4491
	4%	7%	8%	4%
grade 1 events	41	52	58	64
	0%	0%	0%	0%
grade 2 events	2577	2804	2303	2310
	2%	3%	2%	2%
grade 3 events	1122	1095	1087	1099
	1%	1%	1%	1%
grade 4 events	1085	1098	1001	1165
	1%	1%	0%	1%
grade 5 events	4139	4189	3750	4709
	4%	4%	3%	4%
grade 6 events	2299	2723	2065	2216
	2%	2%	2%	2%
grade 7 events	75781	73726	83152	81007
	83%	79%	81%	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	182.364075	182.3450900816373	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.663567	26.68531406653989	Alternating exposures requested	N	N
[deg] Pointing Roll	97.517000	97.73427854002574	[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)	571253601.184000	571252657.4374599			
Observation start date	2016-02-07T17:32:13	2016-02-07T17:17:37			
[s] Observation end time (MET)	571269601.184000	571270506.27598			
Observation end date	2016-02-07T21:58:53	2016-02-07T22:15:06			
Read mode	TIMED	TIMED			

2.3 Aspect



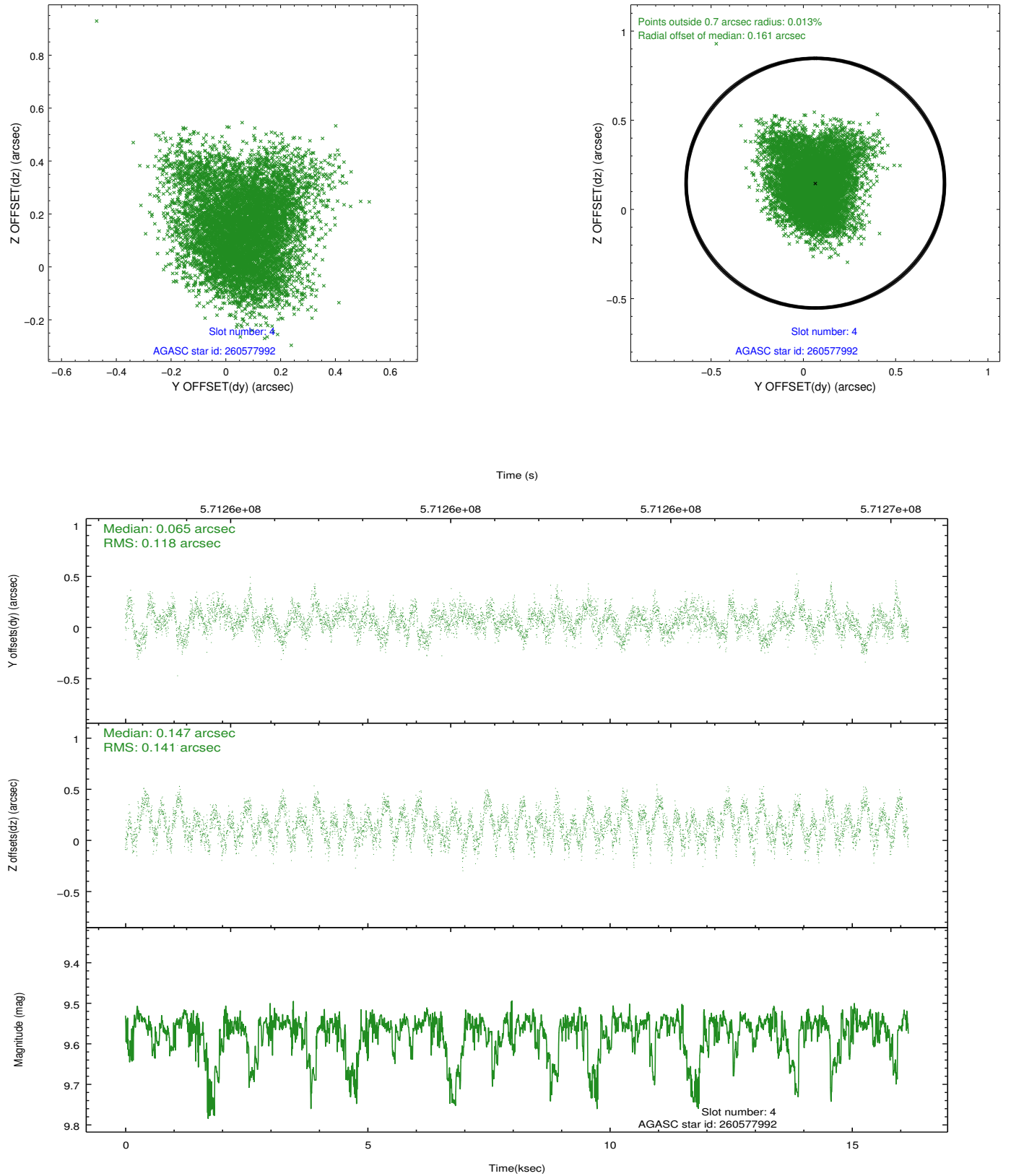


Slot Statistics

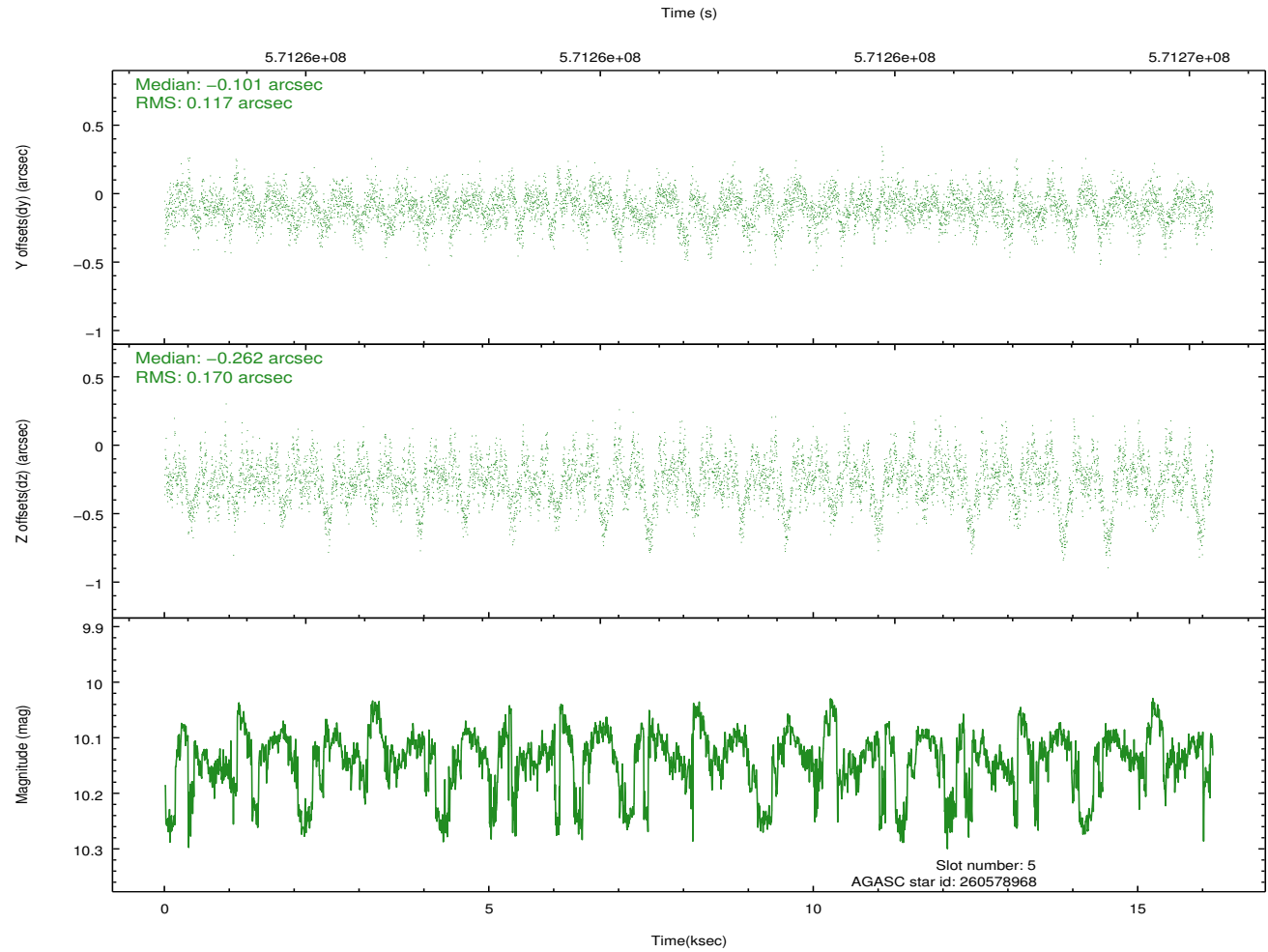
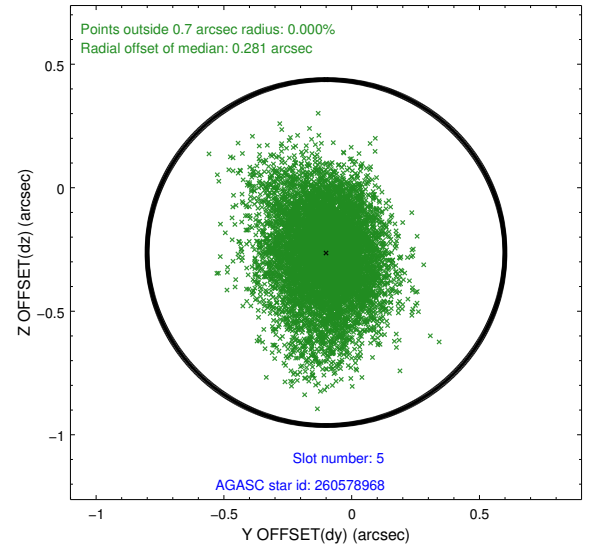
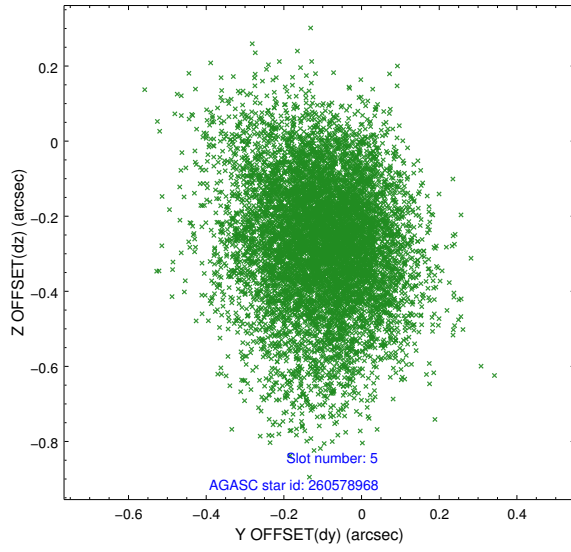
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	3942	0.055	0.009	0.007	0.014	0.000000	0.000000	924.30	-841.99
1	FID		ACIS-I-5	7.27	3943	-0.318	0.035	0.006	0.011	0.000000	0.000000	-1824.10	1055.29
2	FID		ACIS-I-6	7.26	3943	0.172	0.027	0.007	0.012	0.000000	0.000000	389.58	1700.17
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	260577992	9.57	7867	0.065	0.147	0.197	0.317	182.505670	27.046994	1309.83	-629.72
5	GUIDE	used	260578968	10.13	7848	-0.101	-0.262	0.216	0.372	181.760581	26.890900	1069.30	1813.26
6	GUIDE	used	260580680	6.86	7886	0.130	0.062	0.101	0.172	182.155235	26.493548	-518.62	746.30
7	GUIDE	used	260583352	6.44	7886	-0.091	0.056	0.083	0.137	182.692069	27.281504	2069.91	-1330.82

2.4 Star Slots

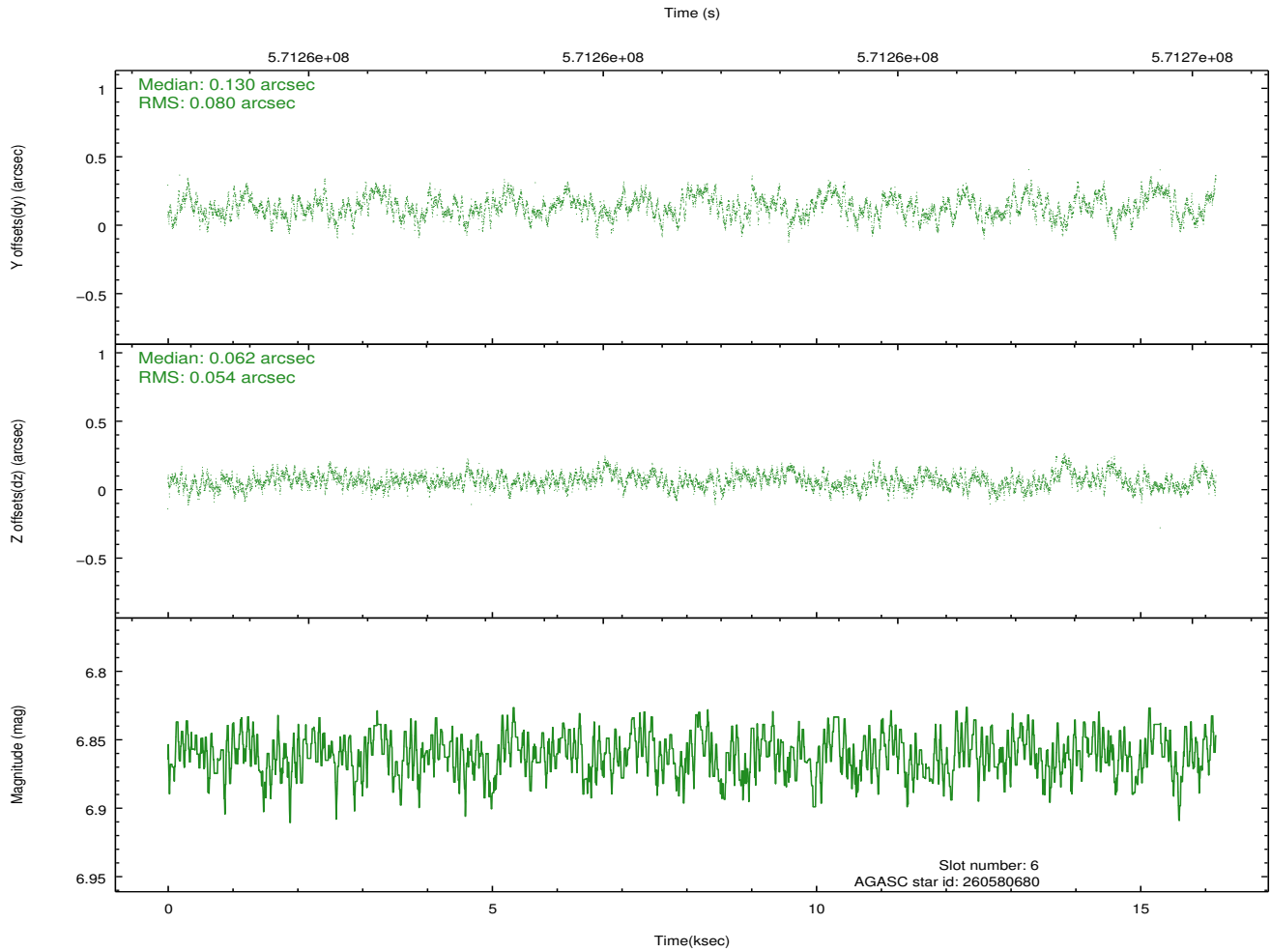
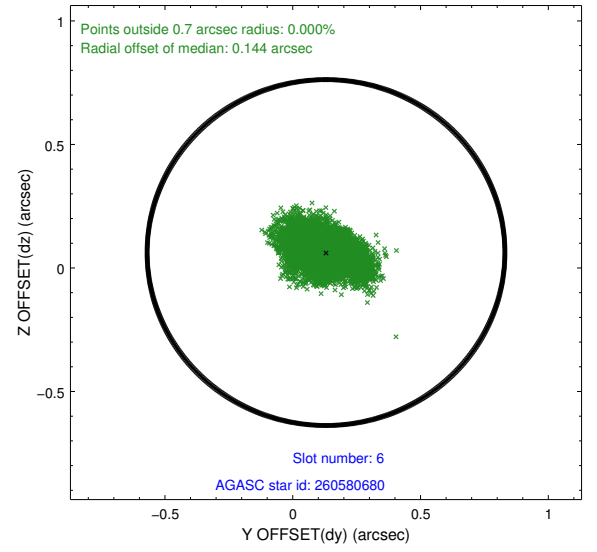
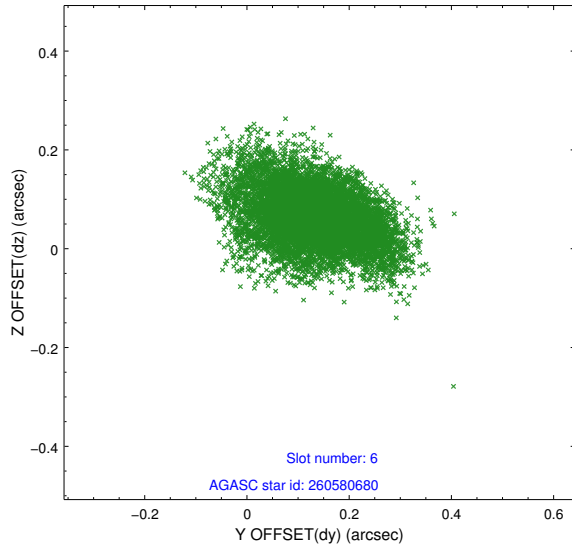
2.4.1 Slot 4



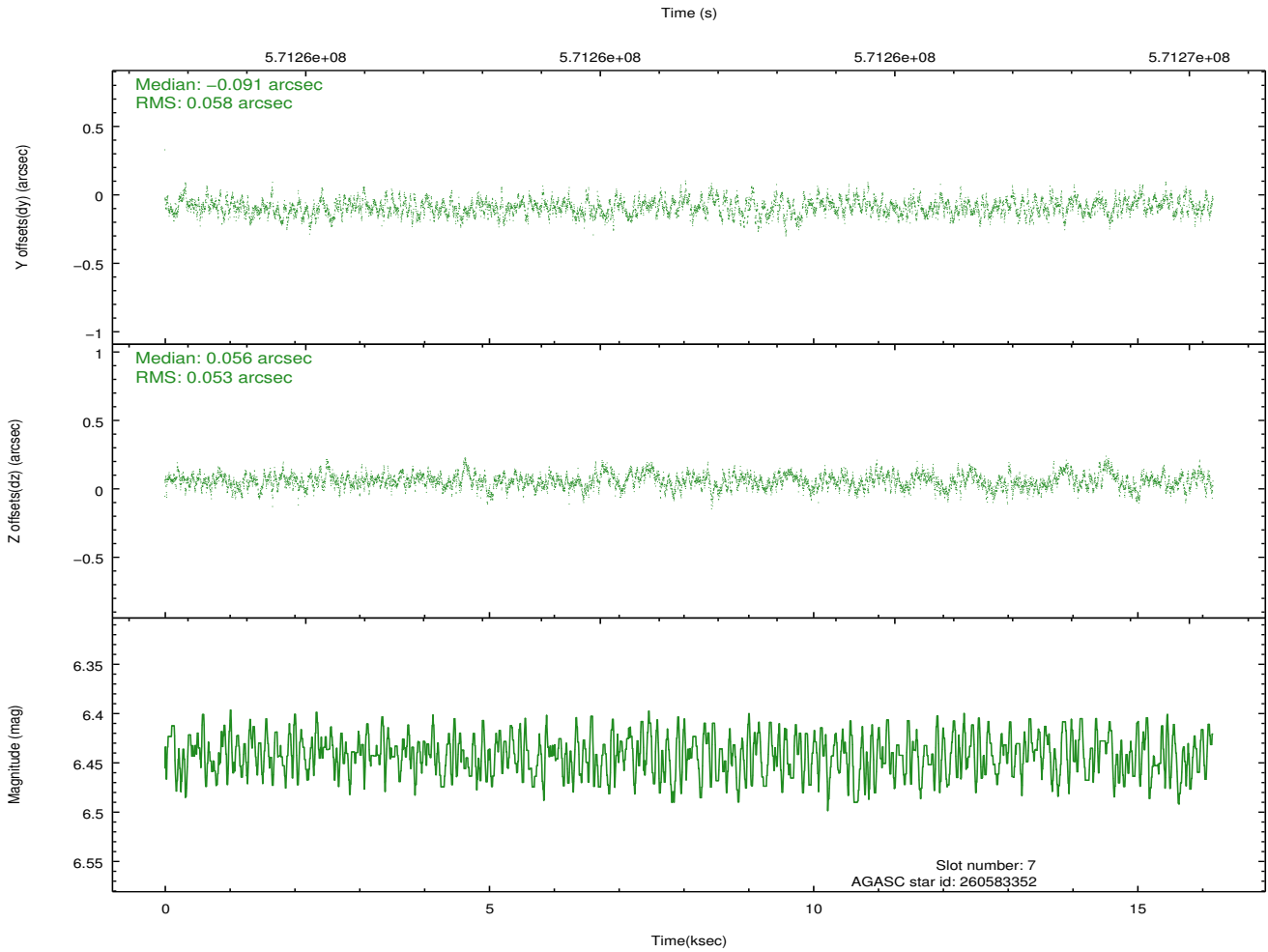
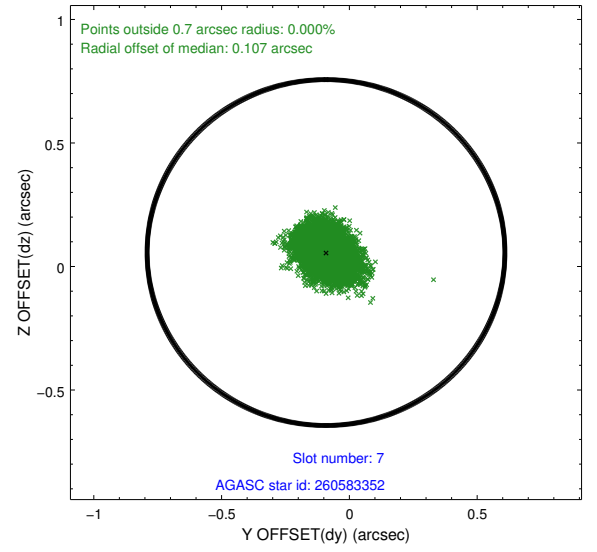
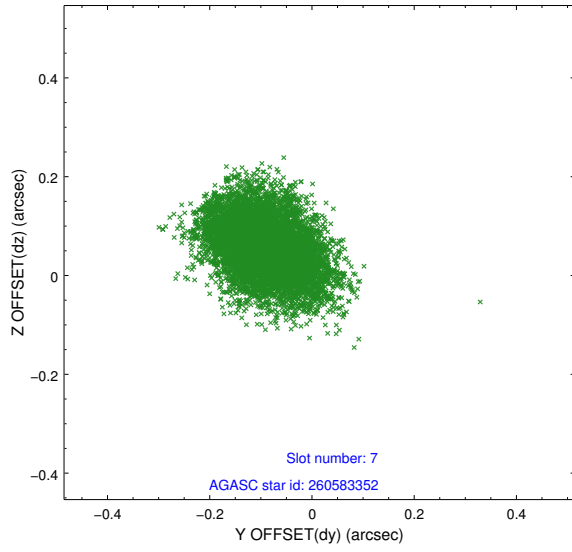
2.4.2 Slot 5



2.4.3 Slot 6

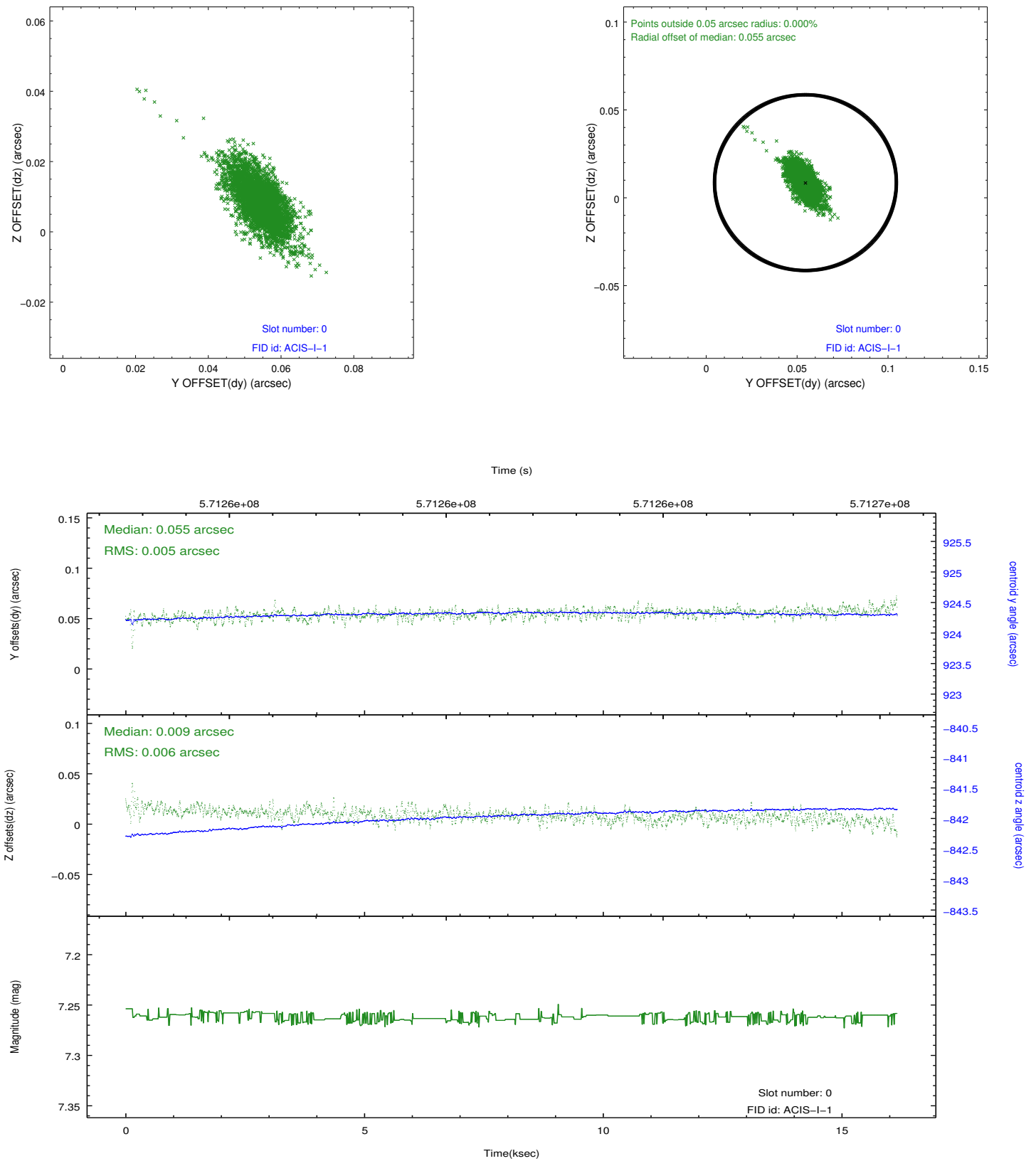


2.4.4 Slot 7

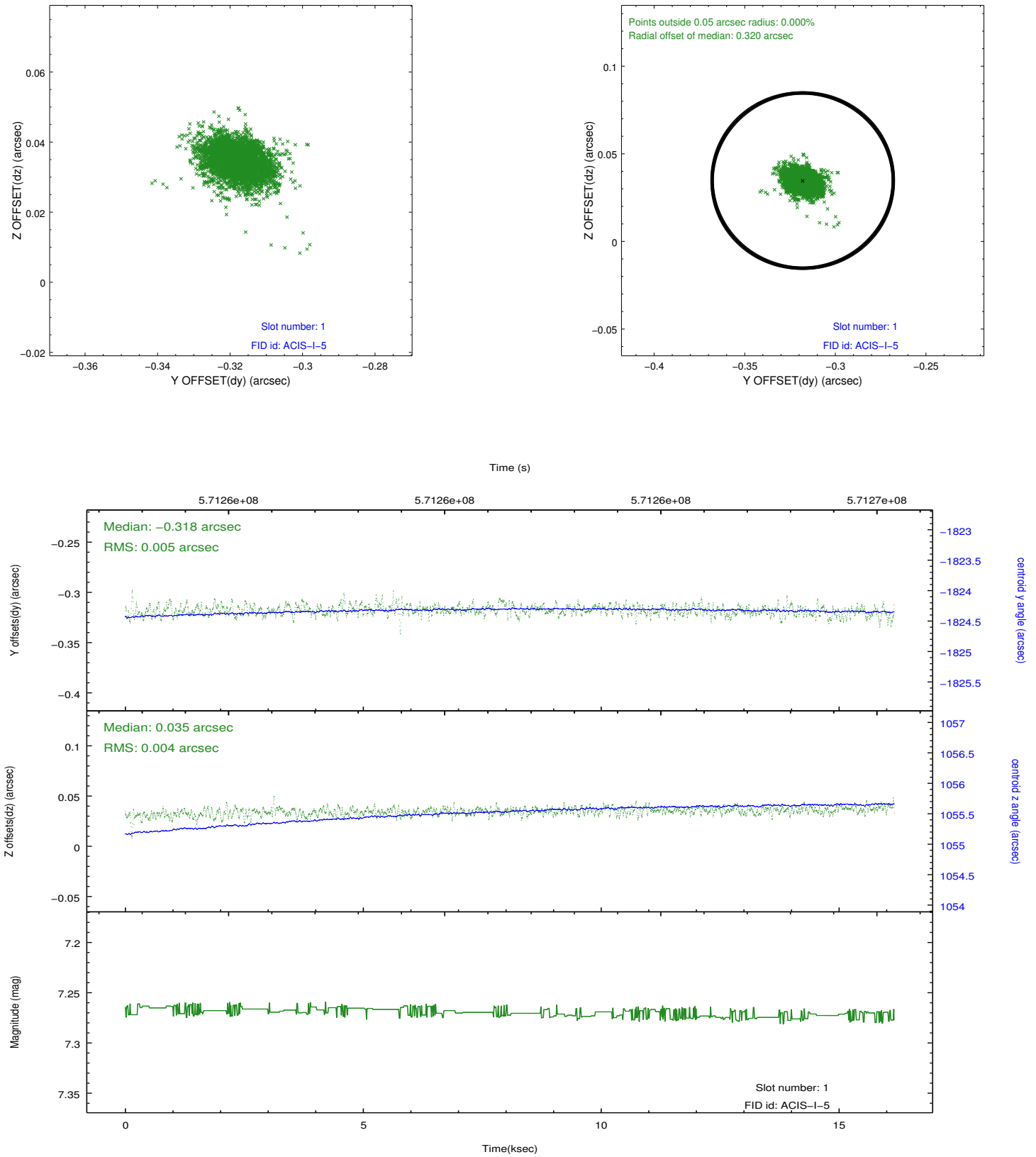


2.5 FID Slots

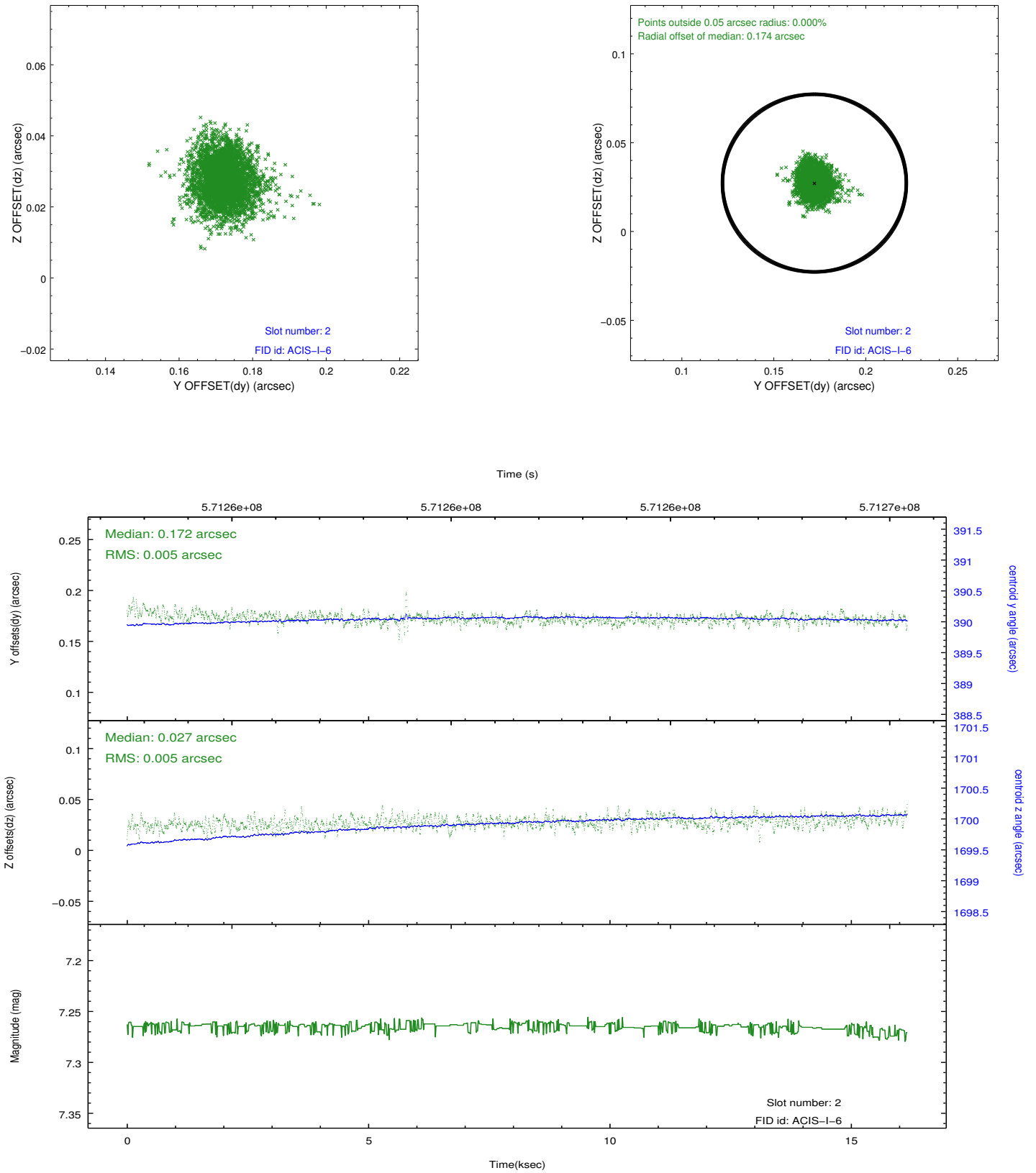
2.5.1 Slot 0



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)	2016.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.085298209667

A.2 Comments

The guide star in slot 3 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.