

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18778 - L2 Version 1
Chandra X-Ray Center

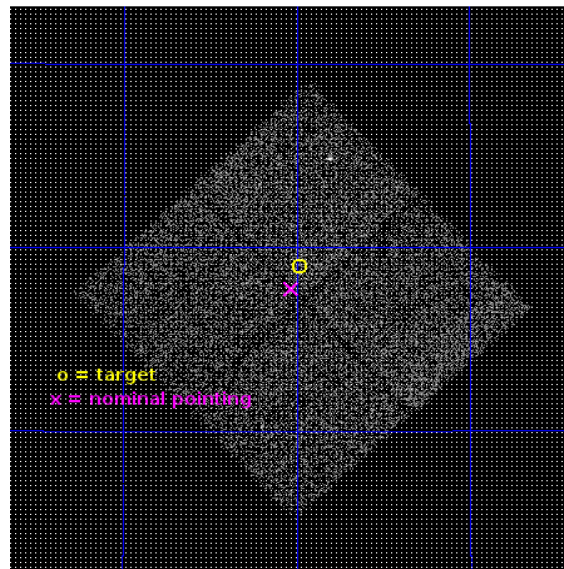
L2 Processing Date : Sep 30 2016

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 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

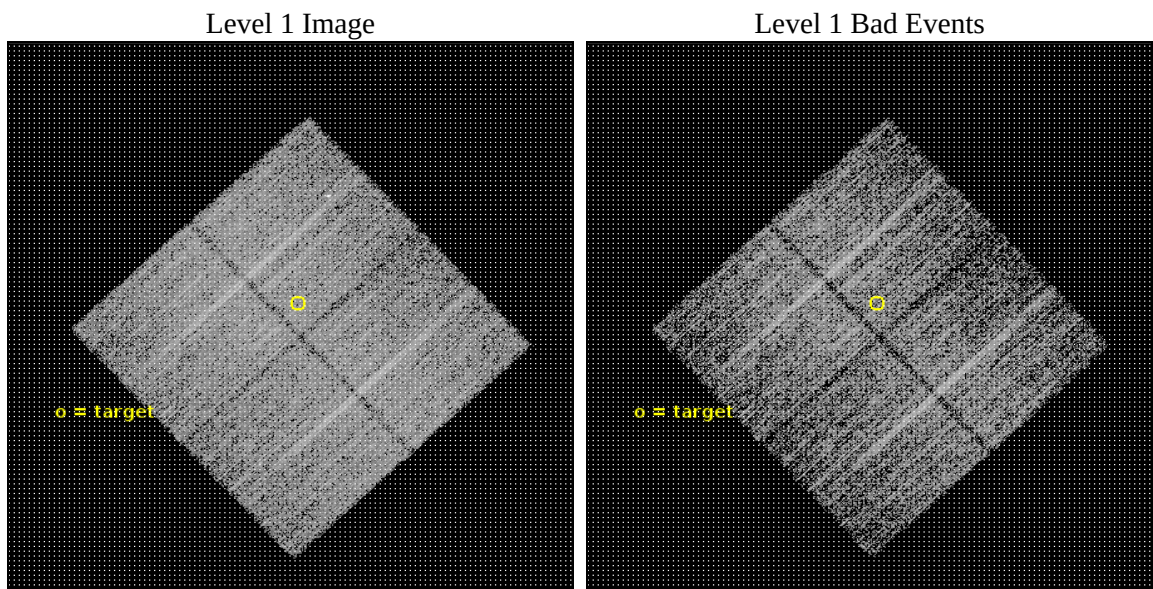
seq_num	801653	Sequence number
obs_id	18778	Observation id
title	Probing the extreme mass peaks at $z>0.7$	Proposal title
observer	Monique ARNAUD	Principal investigator
object	PSZ2 G088.98+55.07	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.74484	Observer's specified target RA [deg]
dec_targ	52.81668	Observer's specified target Dec [deg]
ra_nom	224.75743994817	Nominal RA [deg]
dec_nom	52.79601244973	Nominal Dec [deg]
roll_nom	317.00953000726	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10080.670657754	Sum of GTIs [s]
livetime	9948.9592743286	Livetime [s]
ontime0	10083.688527822	Sum of GTIs [s]
ontime1	10080.588597536	Sum of GTIs [s]
ontime2	10080.629637599	Sum of GTIs [s]
ontime3	10080.670657754	Sum of GTIs [s]
l2events	25033	Number of level 2 events



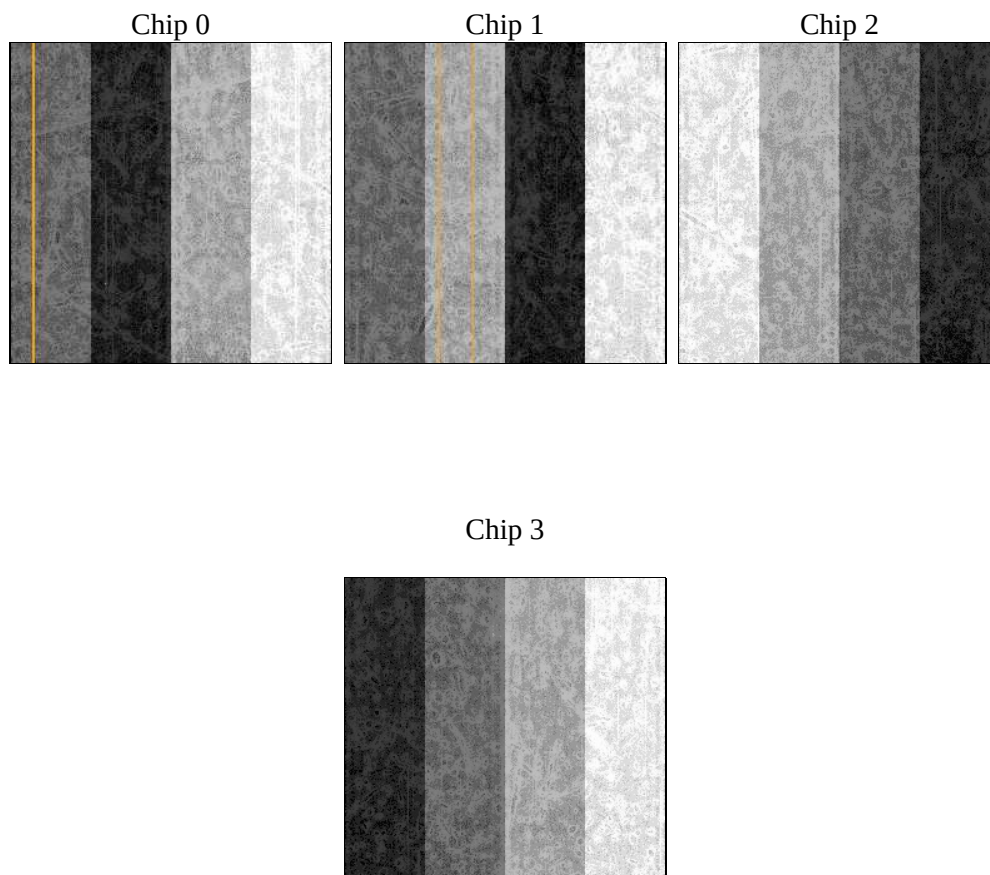
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	10080.670657754	Sum of GTIs [s]
caldbver	4.7.2	 	ontime0	10083.688527822	Sum of GTIs [s]
date	2016-09-30T19:07:06	Date and time of file creation	ontime1	10080.588597536	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10080.629637599	Sum of GTIs [s]
			ontime3	10080.670657754	Sum of GTIs [s]
			l1events	247333	Number of level 1 events

2.1.4 Events

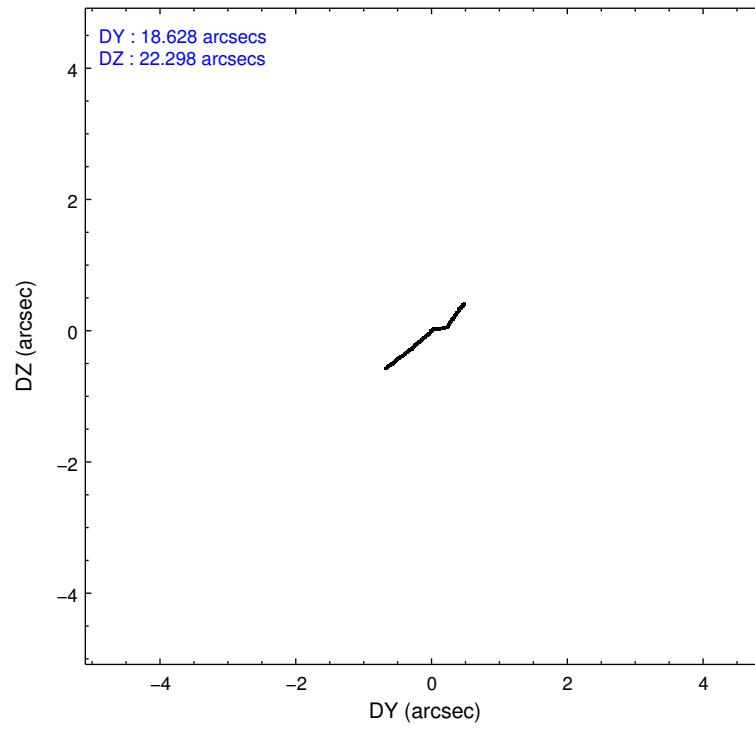
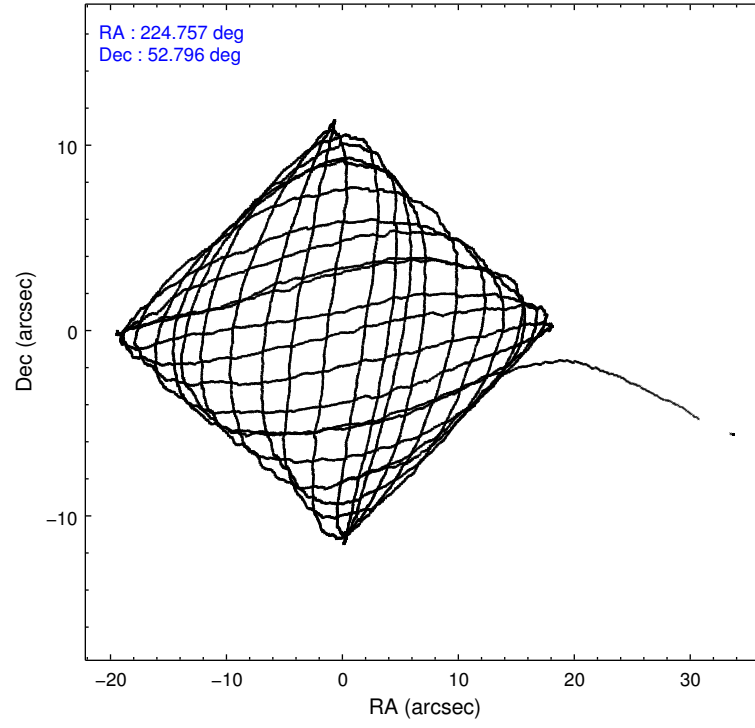
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	57534	61358	64472	63969
rejected events	50426	53141	57466	56154
rejected %	87%	86%	89%	87%

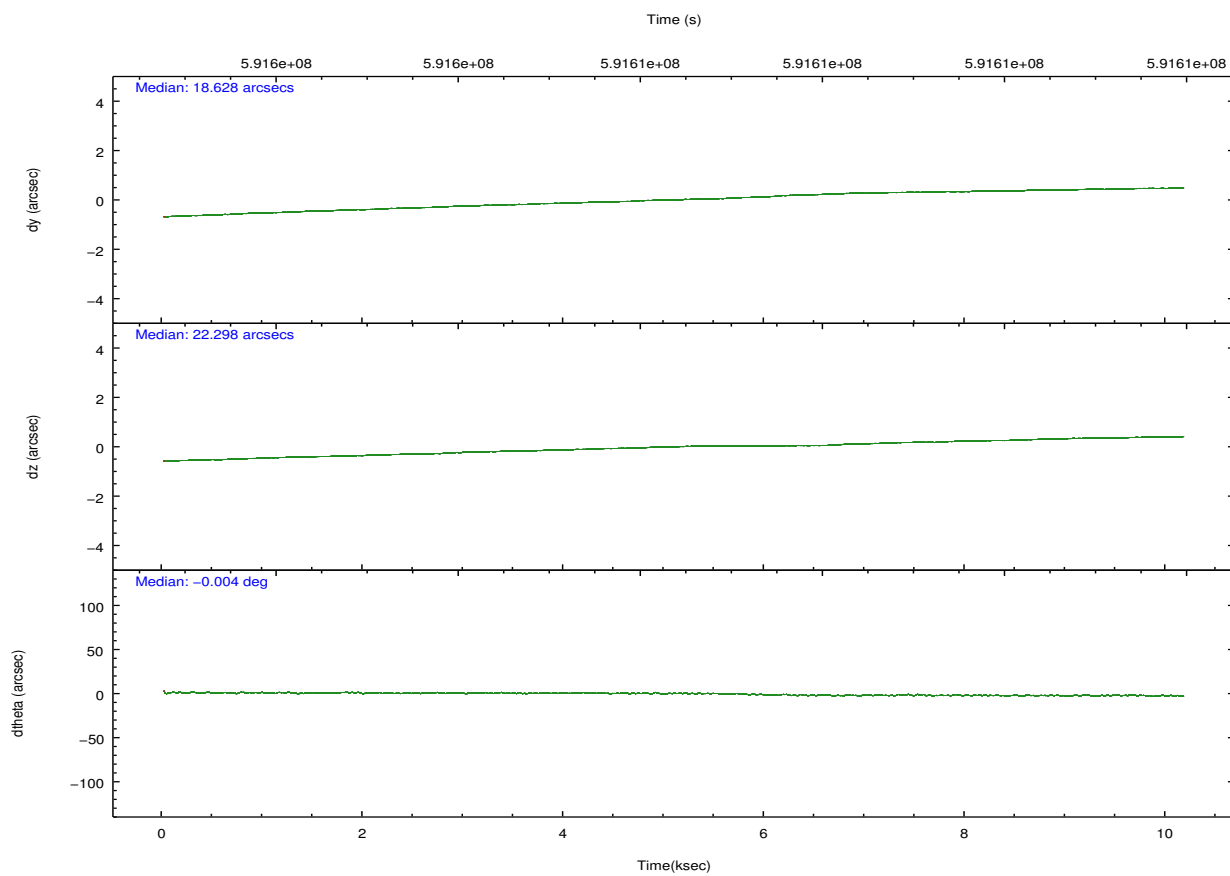
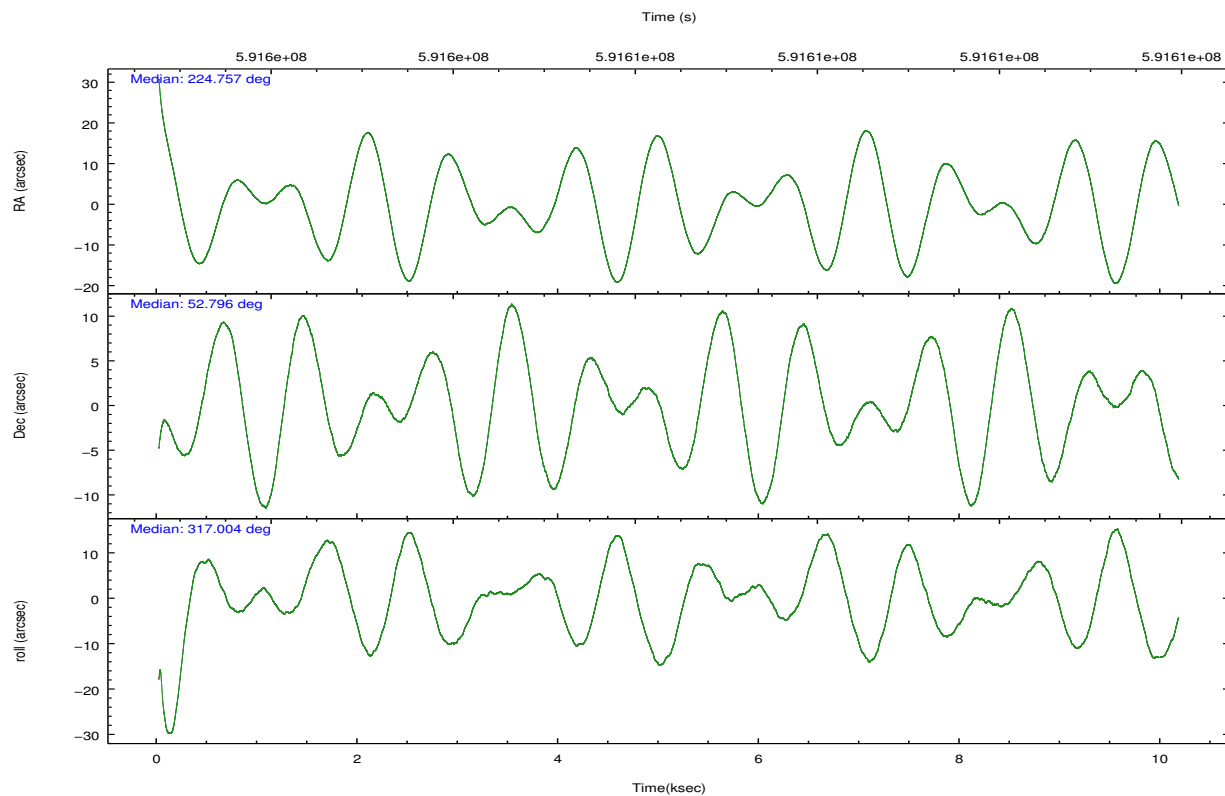
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2366	2870	2390	3256
	4%	4%	3%	5%
grade 1 events	27	44	46	57
	0%	0%	0%	0%
grade 2 events	1823	2048	1800	1617
	3%	3%	2%	2%
grade 3 events	739	788	727	746
	1%	1%	1%	1%
grade 4 events	718	783	747	751
	1%	1%	1%	1%
grade 5 events	2841	2922	2660	3185
	4%	4%	4%	4%
grade 6 events	1466	1736	1346	1449
	2%	2%	2%	2%
grade 7 events	47554	50167	54756	52908
	82%	81%	84%	82%

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	224.712854	224.7574399481746	Subarray requested	NONE	NONE
[deg] Pointing Dec	52.802134	52.79601244972991	Alternating exposures requested	N	N
[deg] Pointing Roll	316.836325	317.0095300072578	[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)	591601469.184000	591600255.38819			
Observation start date	2016-09-30T05:43:21	2016-09-30T05:24:15			
[s] Observation end time (MET)	591611469.184000	591612475.4389			
Observation end date	2016-09-30T08:30:01	2016-09-30T08:47:55			
Read mode	TIMED	TIMED			

2.3 Aspect



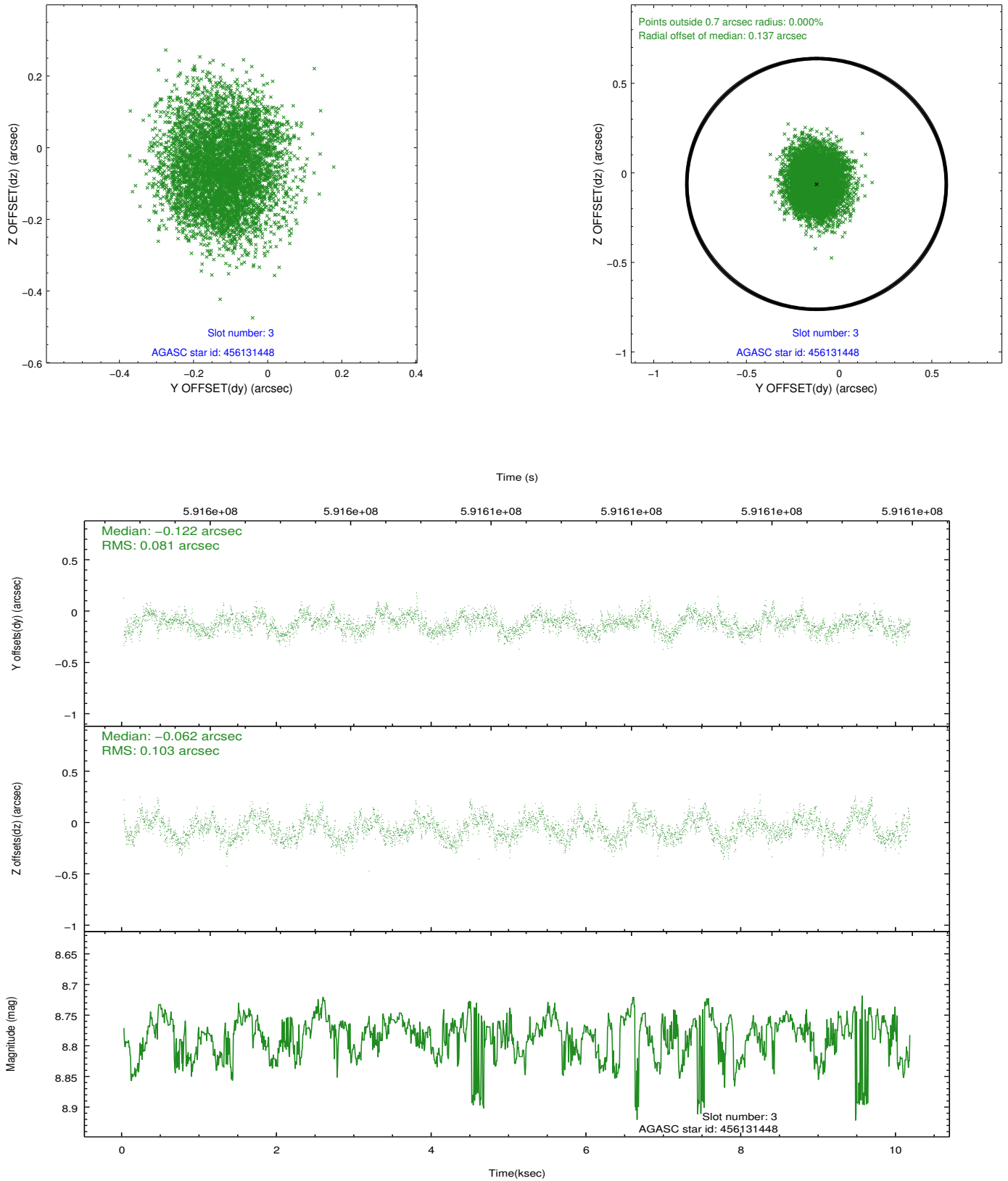


Slot Statistics

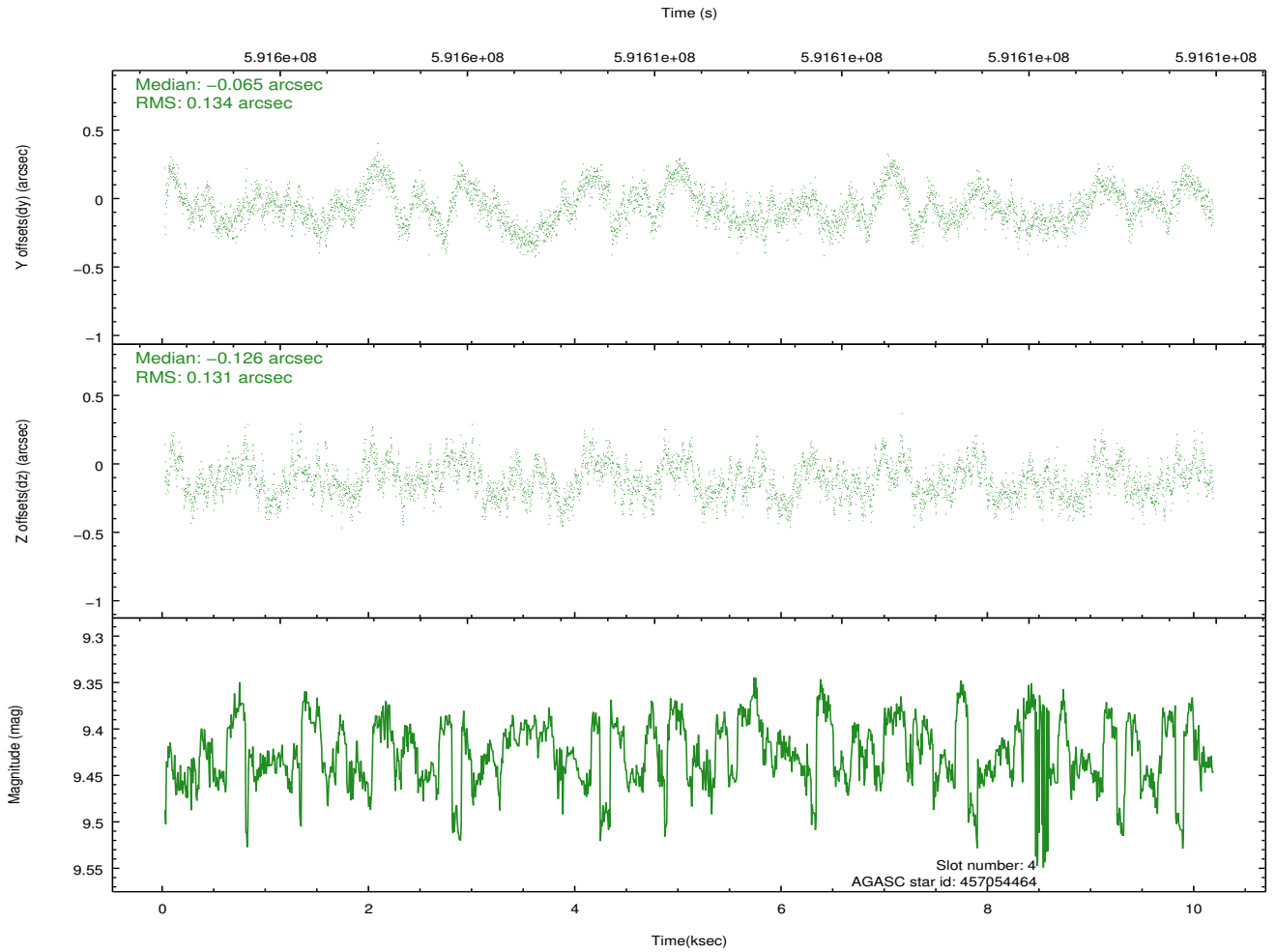
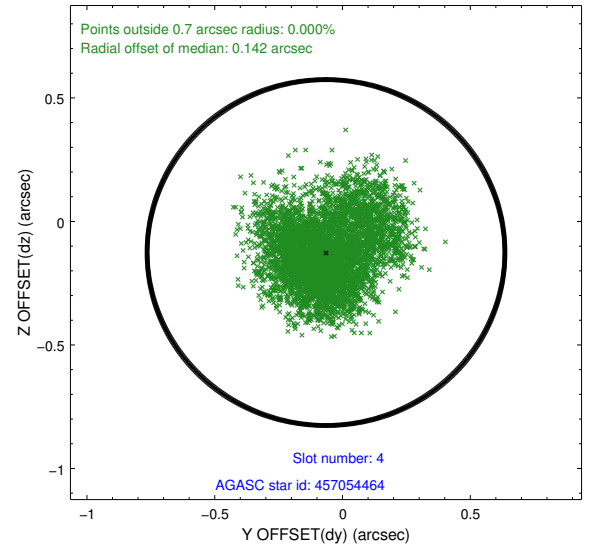
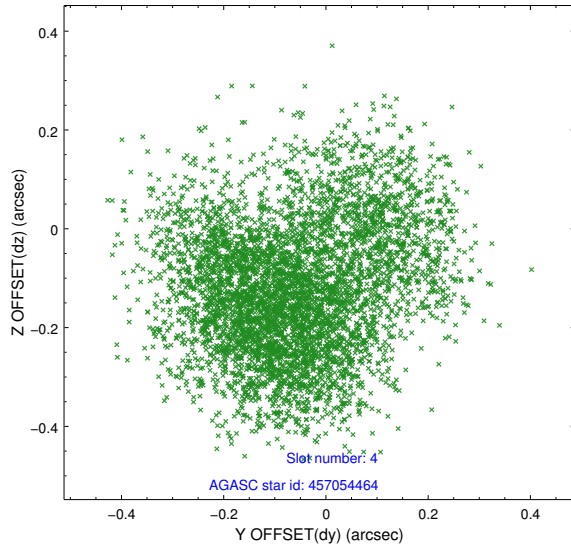
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	2479	0.091	-0.052	0.025	0.038	0.000000	0.000000	920.86	-846.06
1	FID		ACIS-I-5	7.09	2479	-0.366	0.047	0.008	0.013	0.000000	0.000000	-1827.48	1051.17
2	FID		ACIS-I-6	7.10	2479	0.184	0.071	0.021	0.029	0.000000	0.000000	385.85	1696.36
3	GUIDE	used	456131448	8.78	4957	-0.122	-0.062	0.141	0.219	224.726970	52.184757	1543.94	-1599.52
4	GUIDE	used	457054464	9.43	4949	-0.065	-0.126	0.203	0.319	225.214355	52.401875	1787.35	-294.12
5	GUIDE	used	506070824	8.82	4952	0.207	0.204	0.138	0.225	223.962172	52.659903	-849.89	-1487.90
6	GUIDE	used	506071024	7.71	4957	0.091	0.049	0.100	0.161	223.906104	52.567262	-718.26	-1819.96
7	GUIDE	used	506071128	8.47	4957	-0.115	-0.066	0.116	0.184	224.227712	53.382165	-2187.53	809.33

2.4 Star Slots

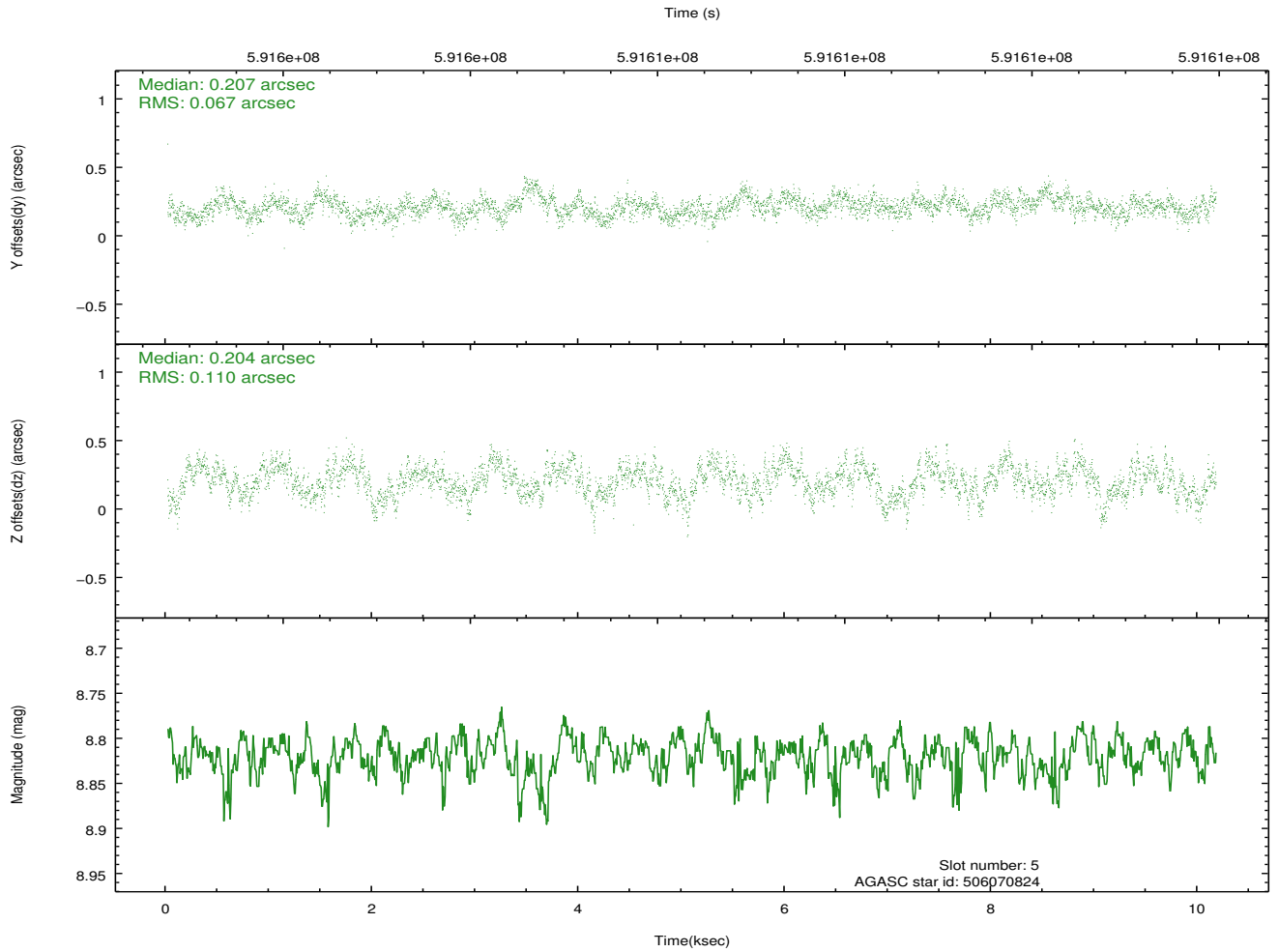
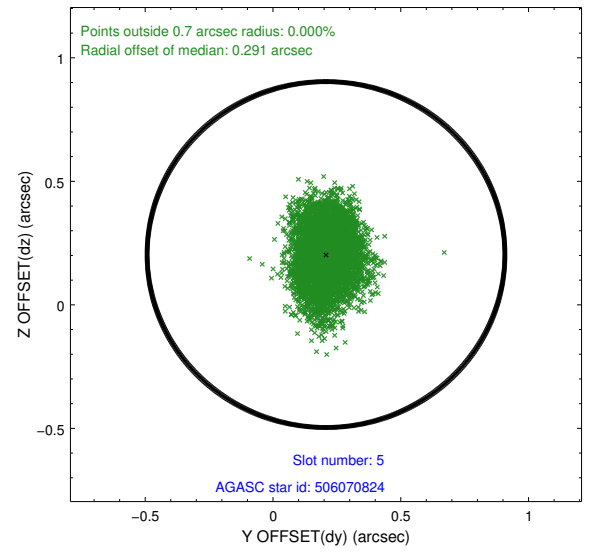
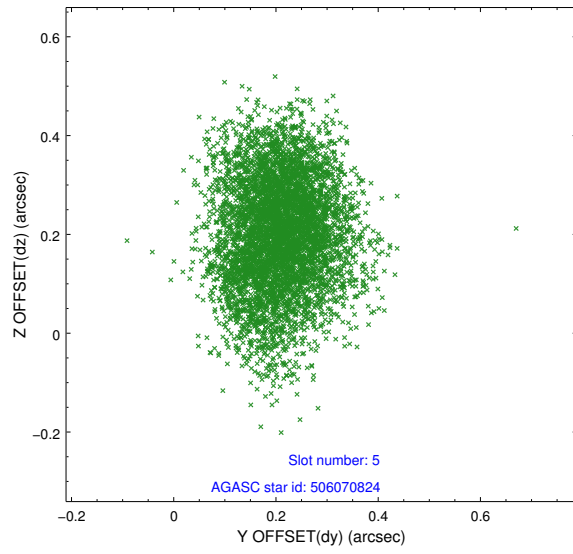
2.4.1 Slot 3



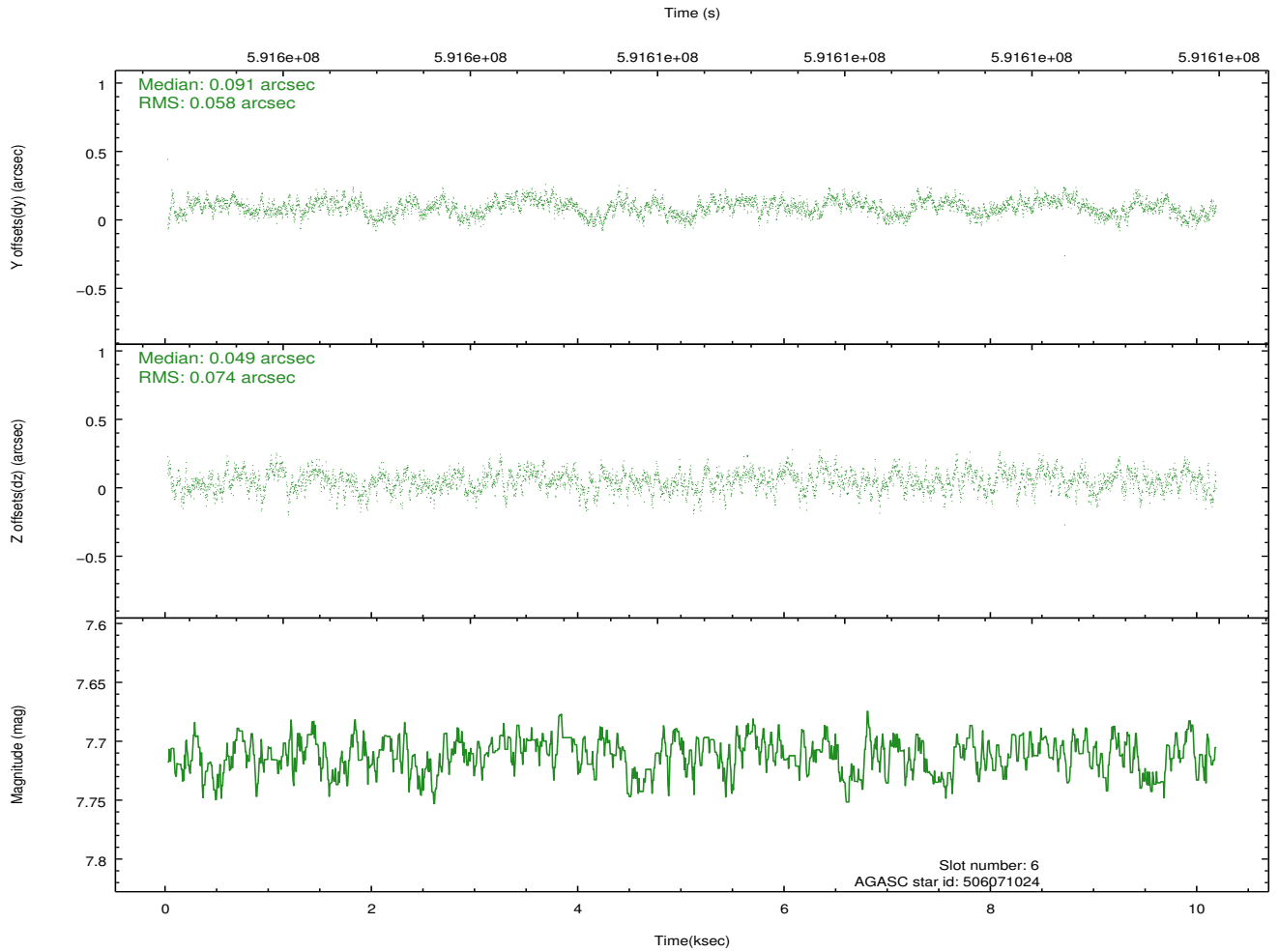
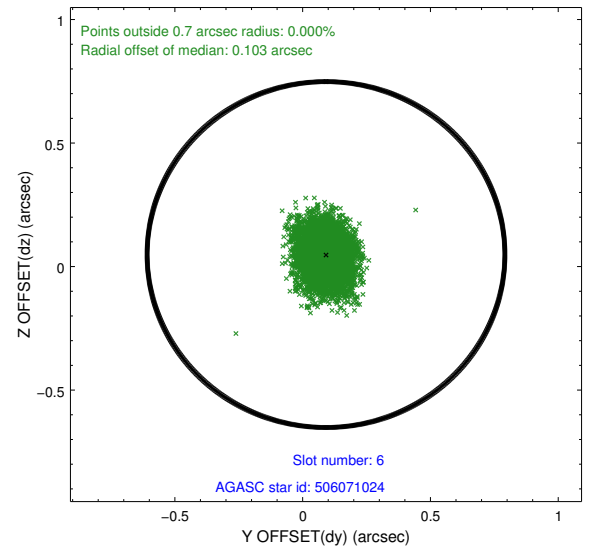
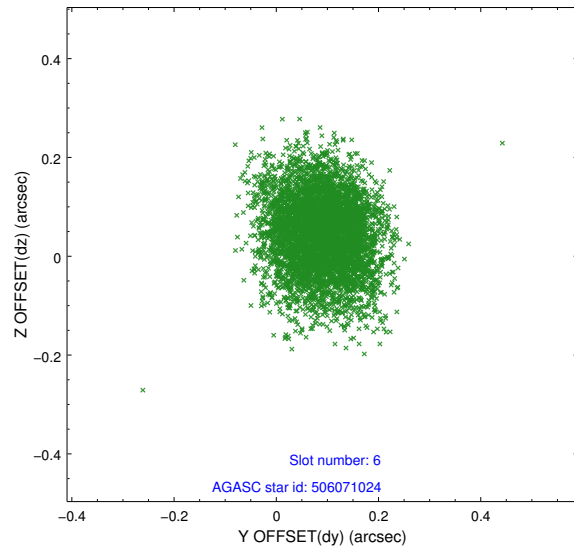
2.4.2 Slot 4



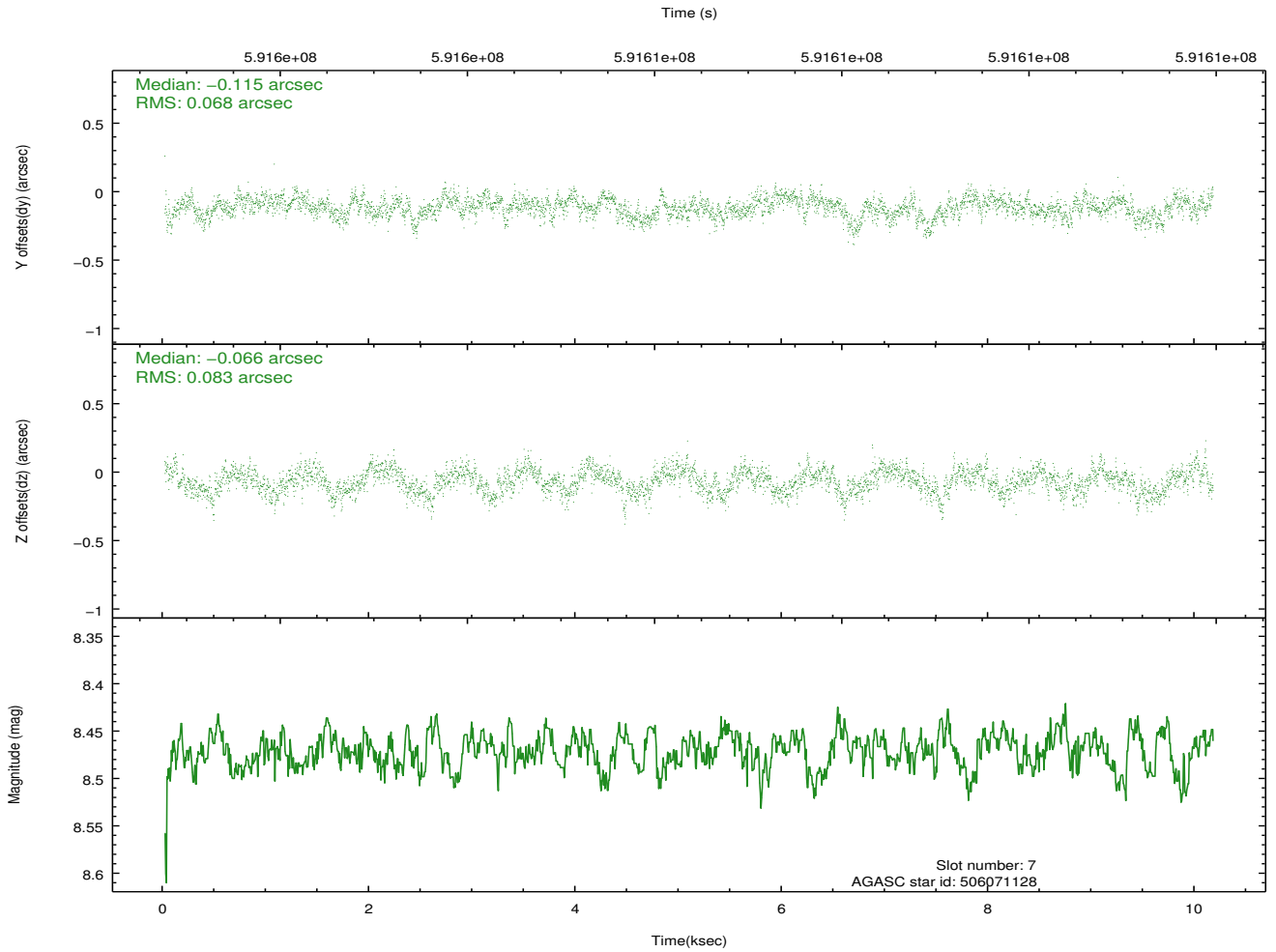
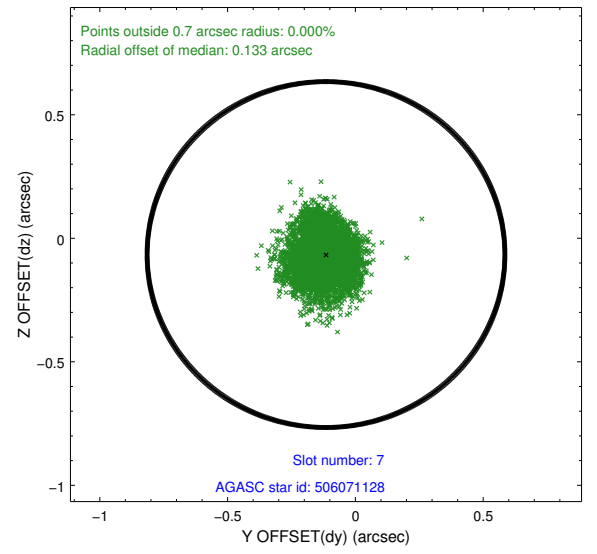
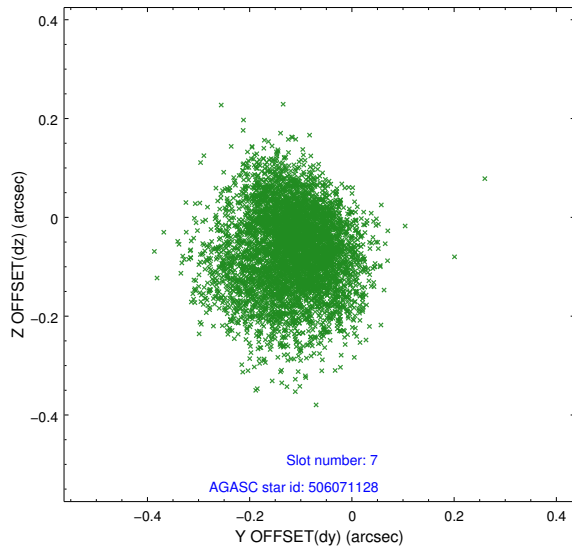
2.4.3 Slot 5



2.4.4 Slot 6

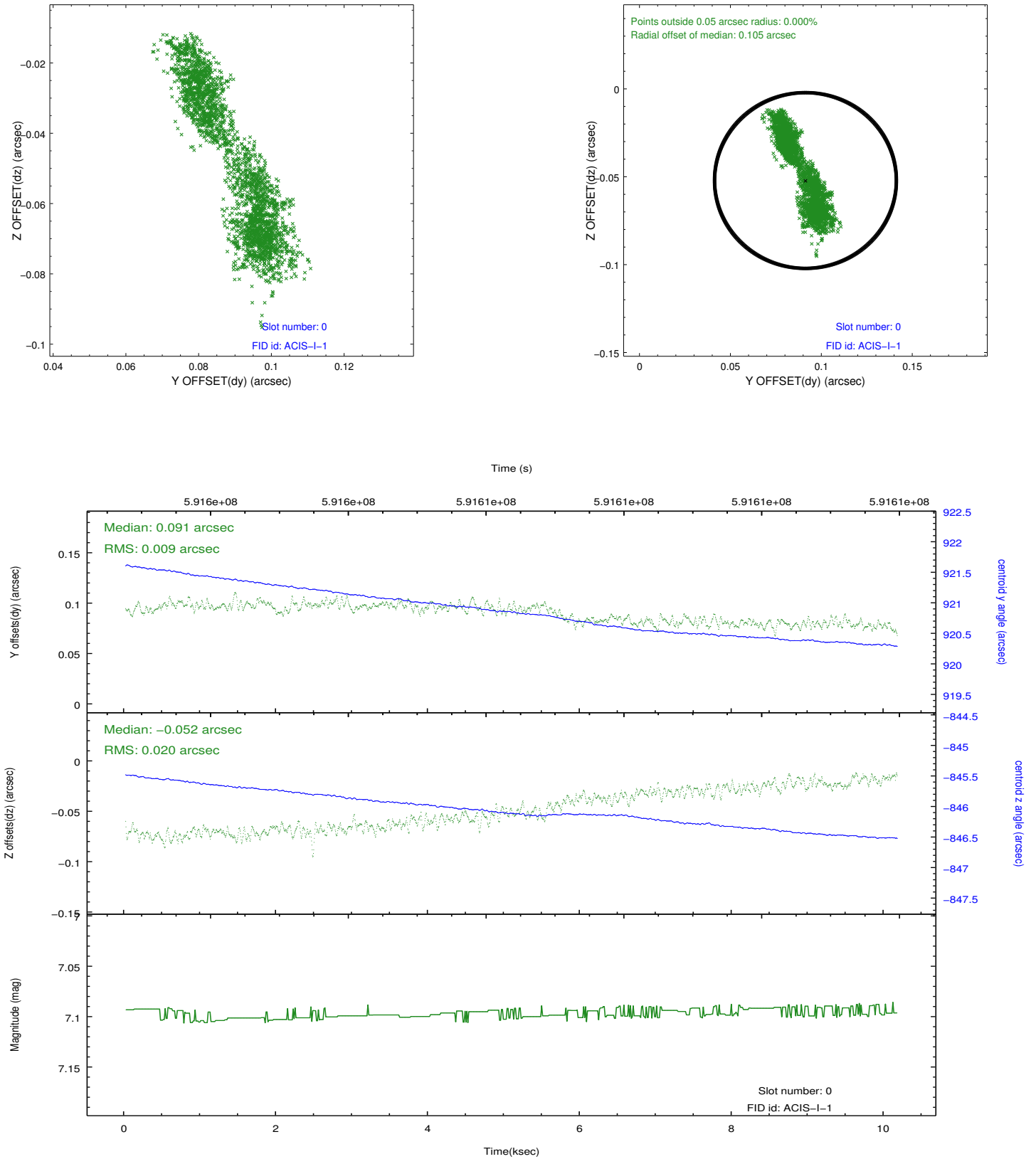


2.4.5 Slot 7

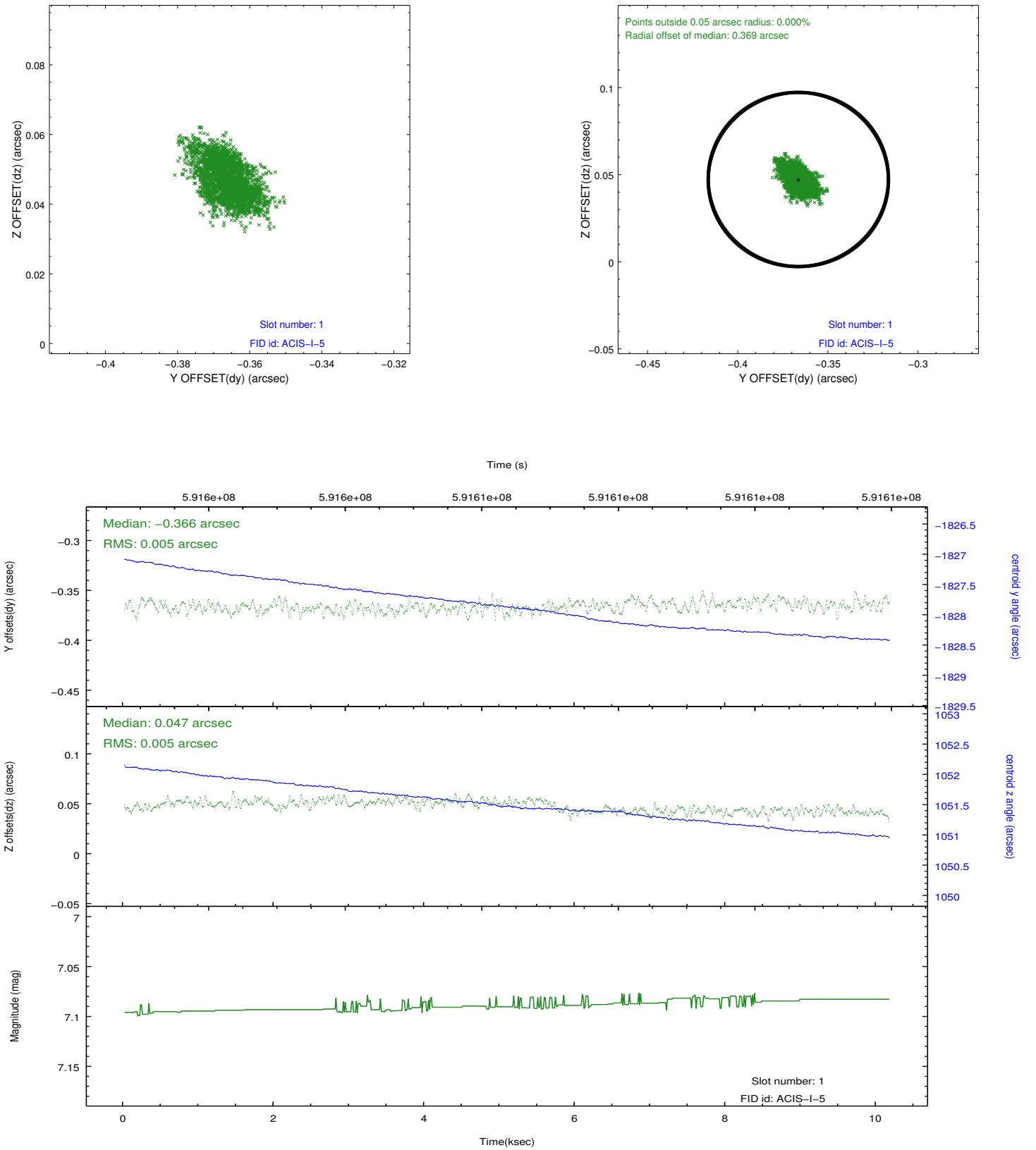


2.5 FID Slots

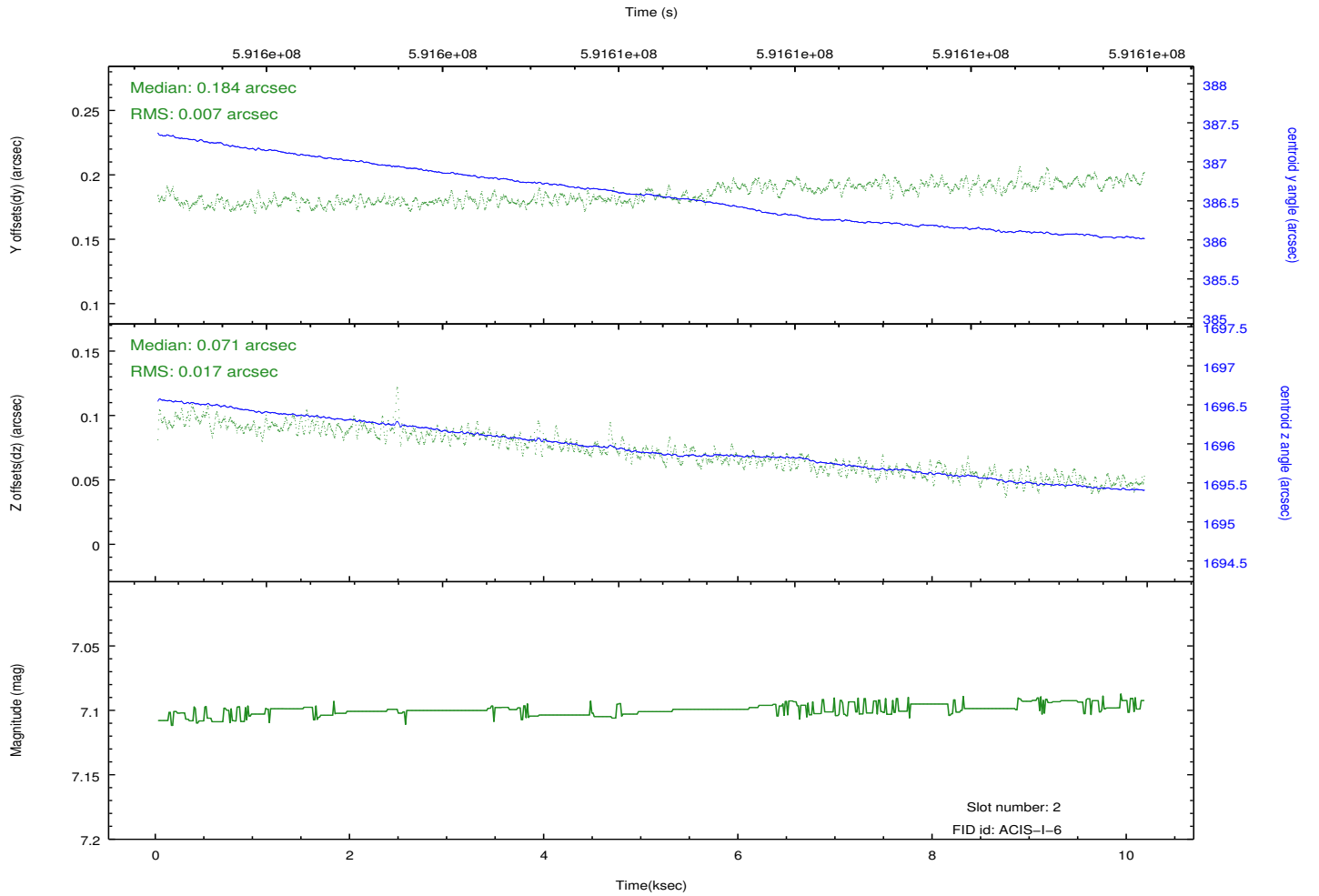
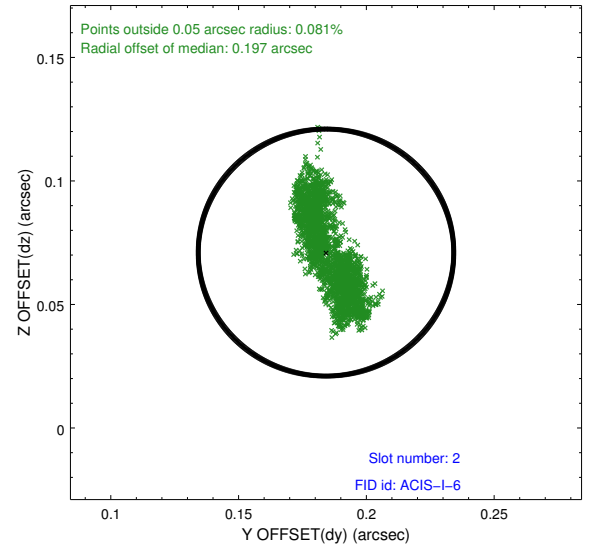
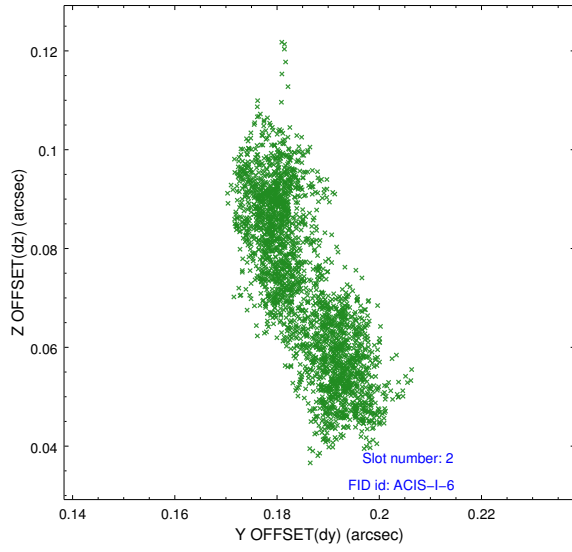
2.5.1 Slot 0



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)	2016.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.080670657754

A.2 Comments

Joint proposal with XMM.