

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15972 - L2 Version 2
Chandra X-Ray Center

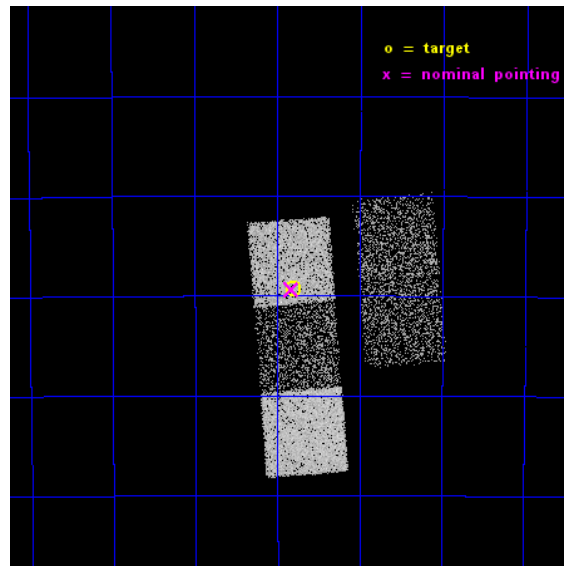
L2 Processing Date : Dec 11 2014

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1 Front

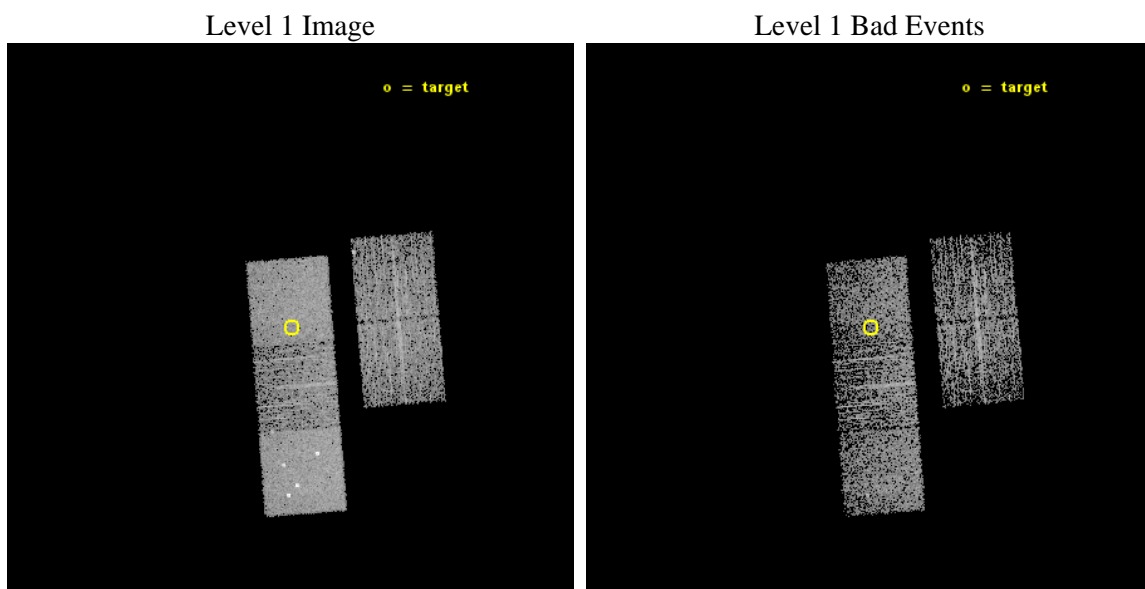
seq_num	502205	Sequence number
obs_id	15972	Observation id
title	Where Have All The Central Compact Objects Gone?	Proposal title
observer	Dr Eric Gotthelf	Principal investigator
object	PSR J0656-5449	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.20375	Observer's specified target RA [deg]
dec_targ	-54.820806	Observer's specified target Dec [deg]
ra_nom	104.20784112114	Nominal RA [deg]
dec_nom	-54.822740113096	Nominal Dec [deg]
roll_nom	265.4719739454	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3571.0896517038	Sum of GTIs [s]
livetime	3524.4307364064	Livetime [s]
ontime2	3570.9254916906	Sum of GTIs [s]
ontime3	3570.9665316939	Sum of GTIs [s]
ontime5	3571.0486117005	Sum of GTIs [s]
ontime6	3571.0075716972	Sum of GTIs [s]
ontime7	3571.0896517038	Sum of GTIs [s]
l2events	27279	Number of level 2 events



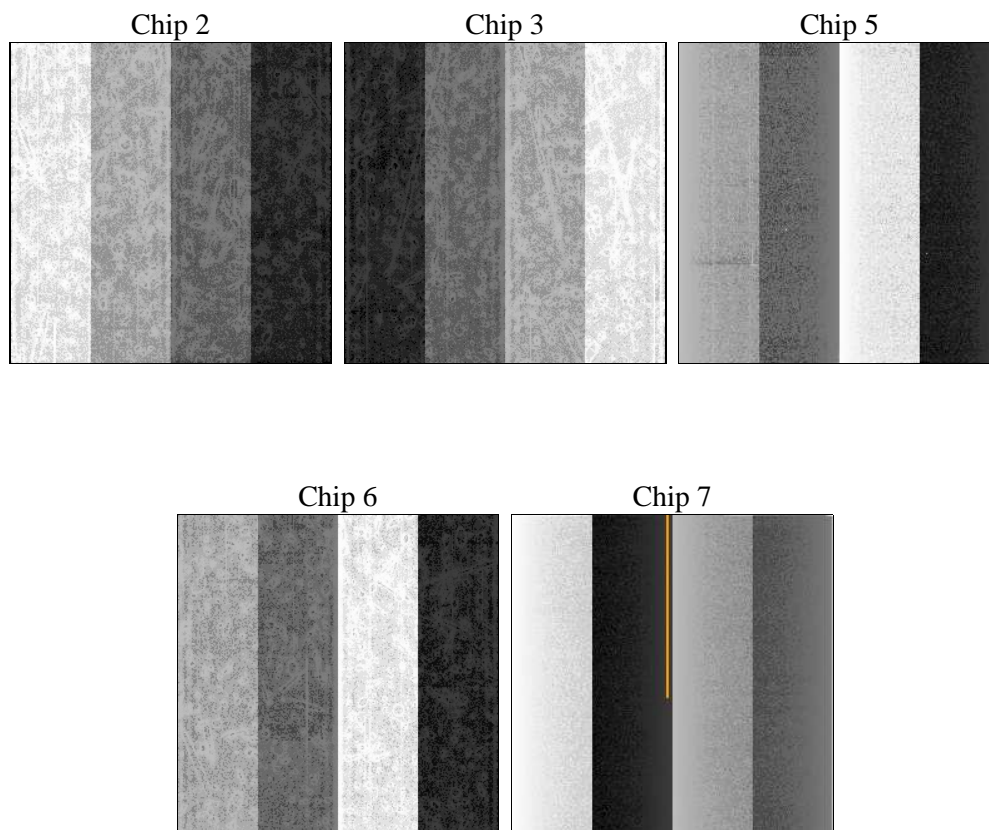
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3571.0896517038	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3570.9254916906	Sum of GTIs [s]
date	2014-12-11T05:40:27	Date and time of file creation	ontime3	3570.9665316939	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3571.0486117005	Sum of GTIs [s]
			ontime6	3571.0075716972	Sum of GTIs [s]
			ontime7	3571.0896517038	Sum of GTIs [s]
			l1events	101671	Number of level 1 events

2.1.4 Events

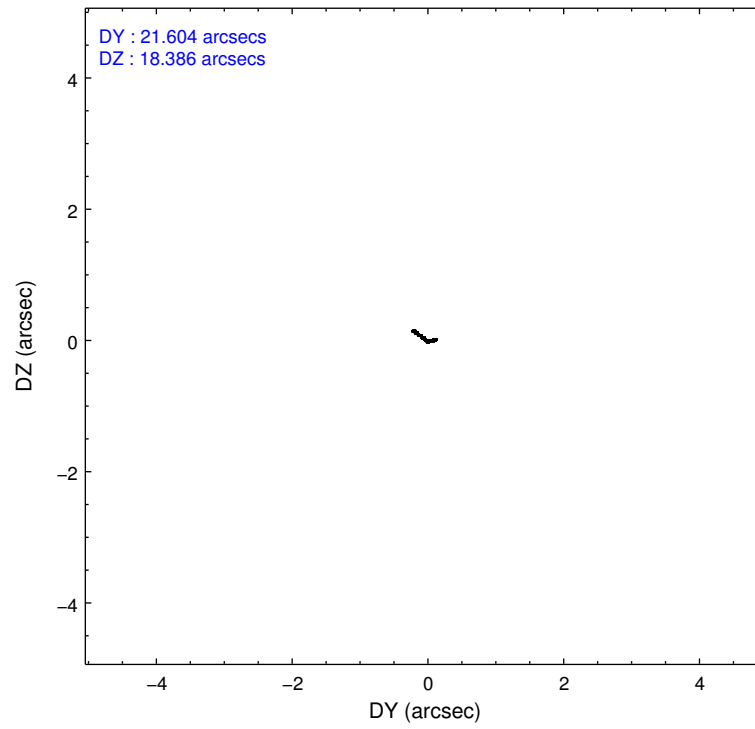
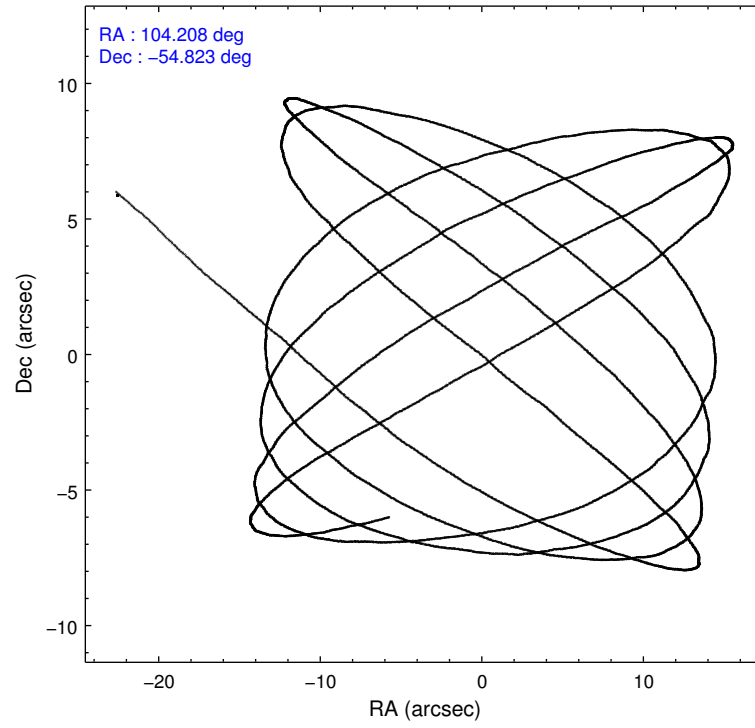
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	15979	15491	30648	16581	22972
rejected events	13960	13448	14578	14555	12950
rejected %	87%	86%	47%	87%	56%

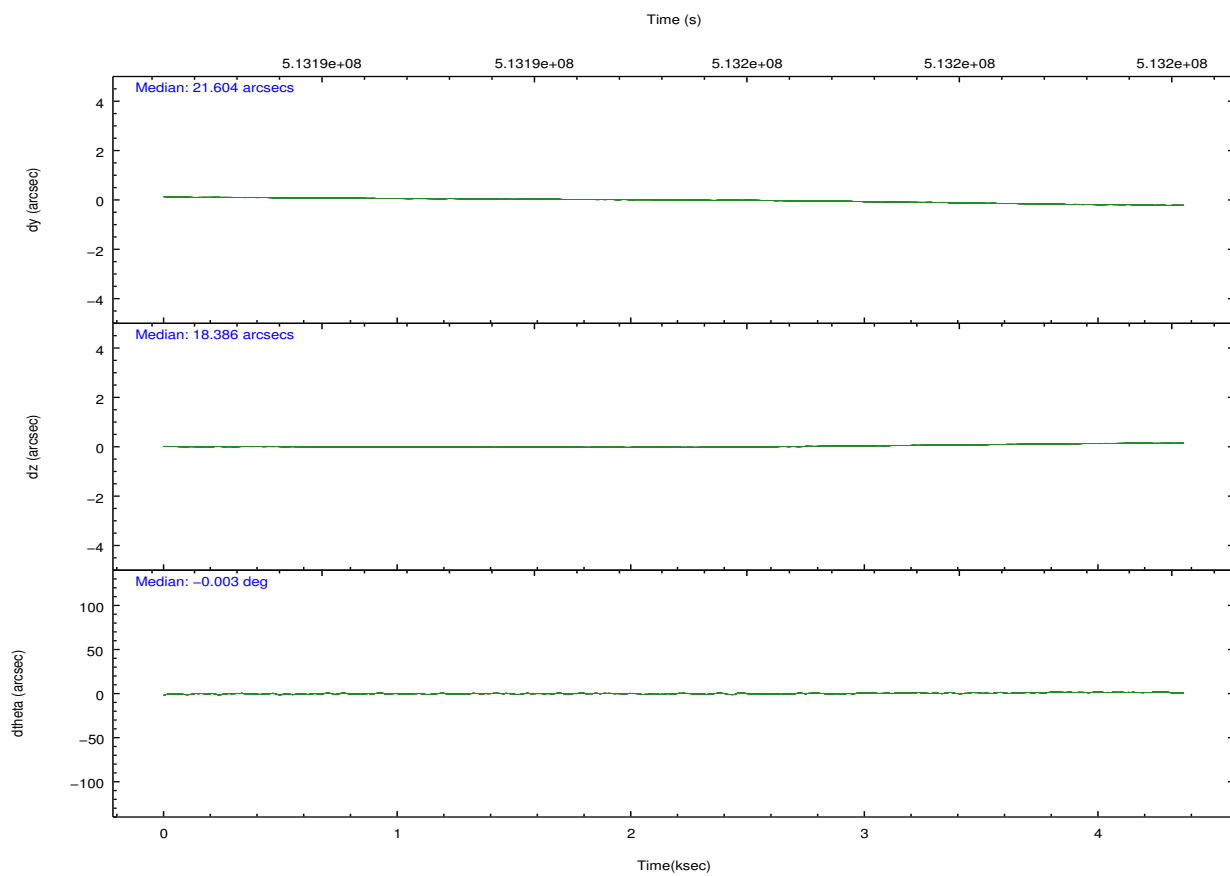
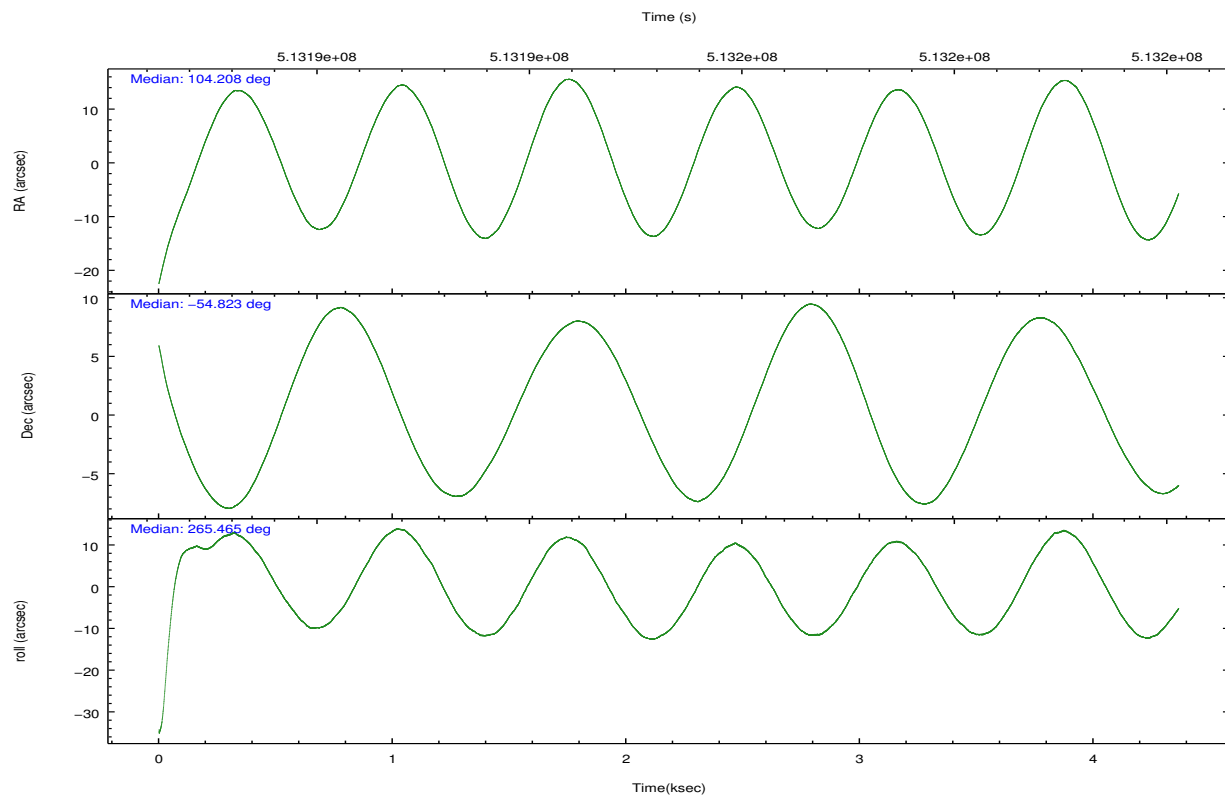
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	717	805	3535	710	951
	4%	5%	11%	4%	4%
grade 1 events	13	8	132	2	26
	0%	0%	0%	0%	0%
grade 2 events	503	431	4428	470	2079
	3%	2%	14%	2%	9%
grade 3 events	185	203	496	184	761
	1%	1%	1%	1%	3%
grade 4 events	208	202	472	194	860
	1%	1%	1%	1%	3%
grade 5 events	785	847	1995	809	2401
	4%	5%	6%	4%	10%
grade 6 events	408	403	7150	471	5379
	2%	2%	23%	2%	23%
grade 7 events	13160	12592	12440	13741	10515
	82%	81%	40%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	104.186965	104.2078411211436	CCD I2 on	O2	Y
[deg] Pointing Dec	-54.798104	-54.82274011309598	CCD I3 on	O3	Y
[deg] Pointing Roll	265.298400	265.4719739453975	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	513193348.184000	513191679.07422	CCD S5 on	N	N
Observation start date	2014-04-06T17:41:21	2014-04-06T17:14:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	513196848.184000	513197451.36204	On-chip summing requested	N	N
Observation end date	2014-04-06T18:39:41	2014-04-06T18:50:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



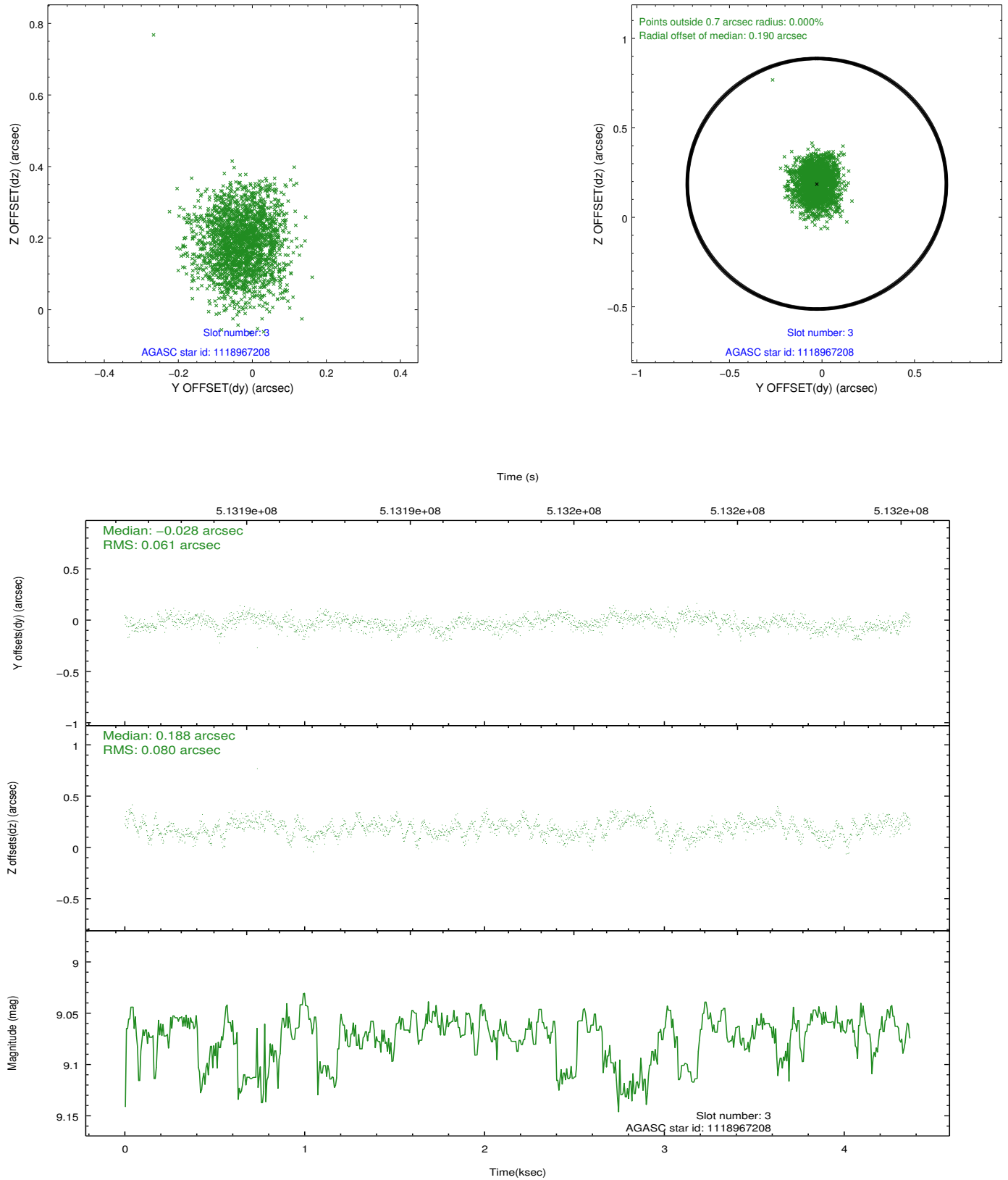


Slot Statistics

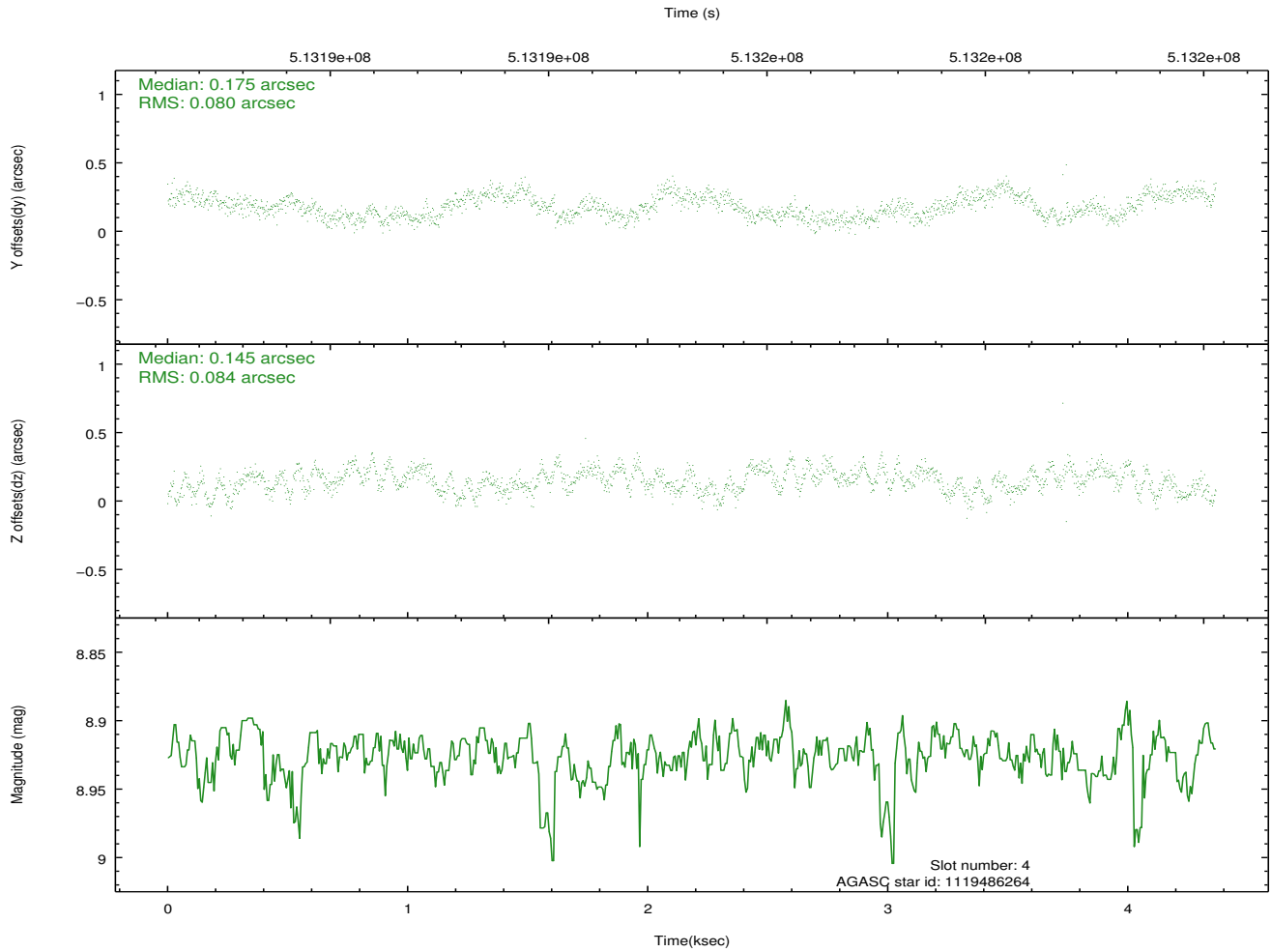
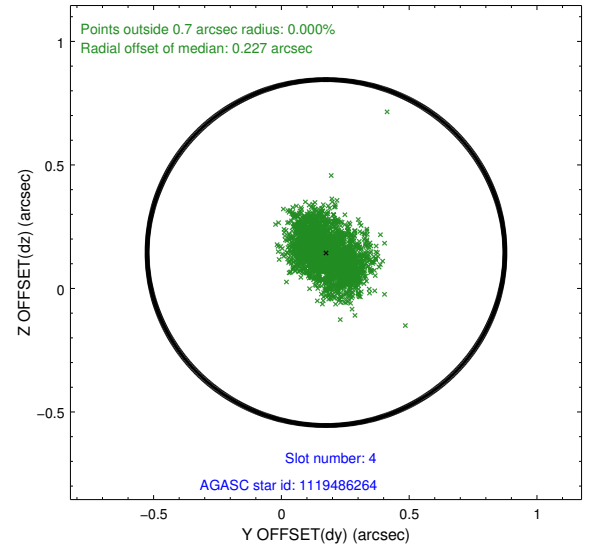
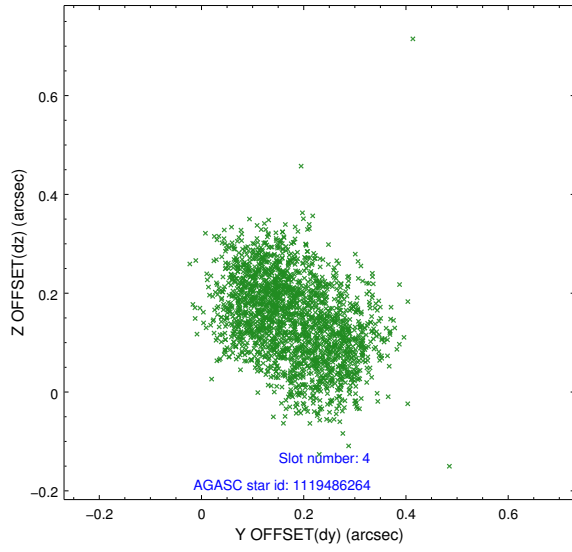
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	1065	-0.126	-0.055	0.006	0.010	0.000000	0.000000	-774.88	-1739.92
1	FID		ACIS-S-4	7.03	1065	0.166	0.074	0.006	0.010	0.000000	0.000000	2138.06	167.16
2	FID		ACIS-S-6	7.16	1065	-0.068	-0.012	0.007	0.012	0.000000	0.000000	389.01	806.11
3	GUIDE	used	1118967208	9.07	2131	-0.028	0.188	0.107	0.170	104.361772	-54.284761	-1871.72	215.07
4	GUIDE	used	1119486264	8.92	2130	0.175	0.145	0.126	0.188	103.385449	-54.467728	-1039.07	-1767.43
5	GUIDE	used	1119489712	7.77	2131	0.083	0.128	0.084	0.135	103.390033	-54.882905	447.05	-1618.64
6	GUIDE	used	1119490784	6.78	2131	-0.065	-0.277	0.054	0.090	104.275452	-55.047428	879.62	254.95
7	GUIDE	used	1119491704	8.71	2128	-0.174	-0.181	0.083	0.138	104.969552	-54.957819	449.31	1660.44

2.4 Star Slots

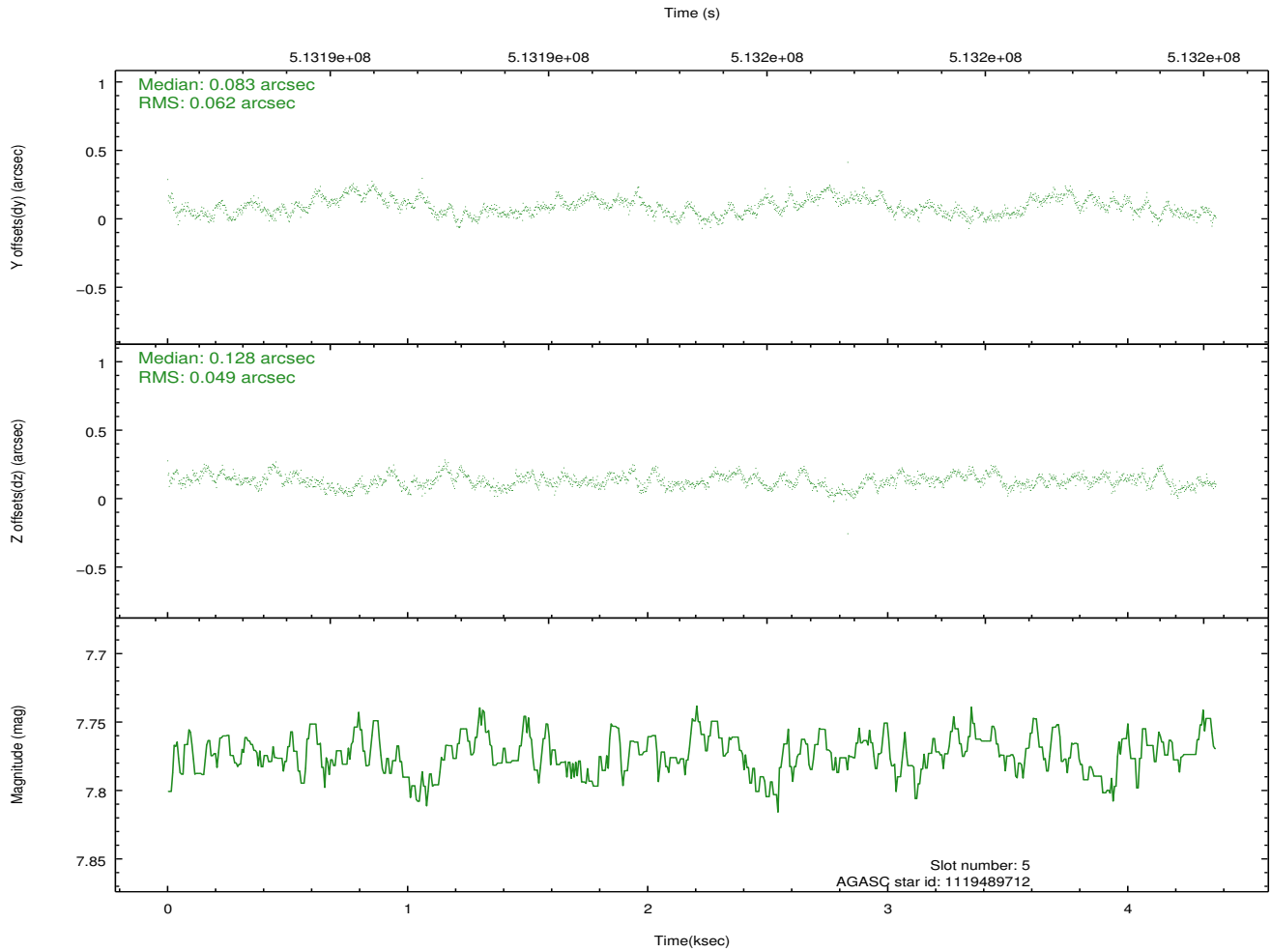
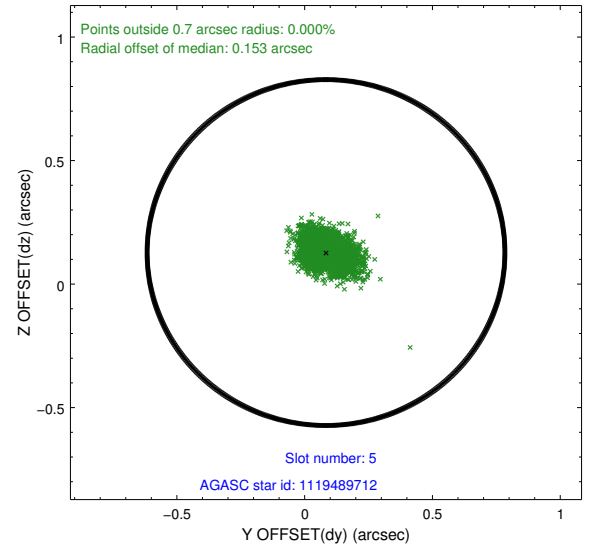
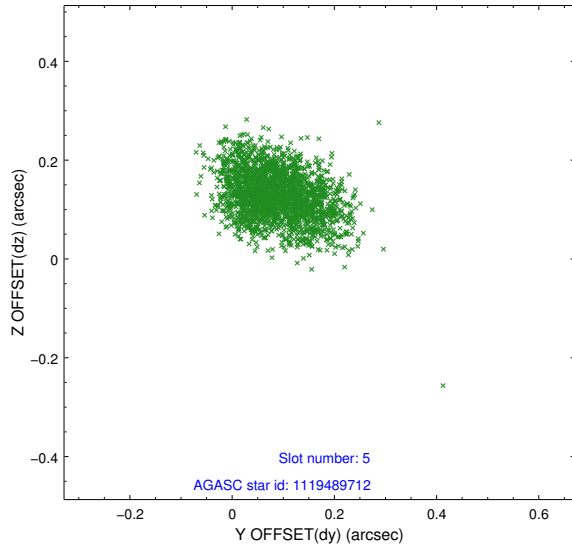
2.4.1 Slot 3



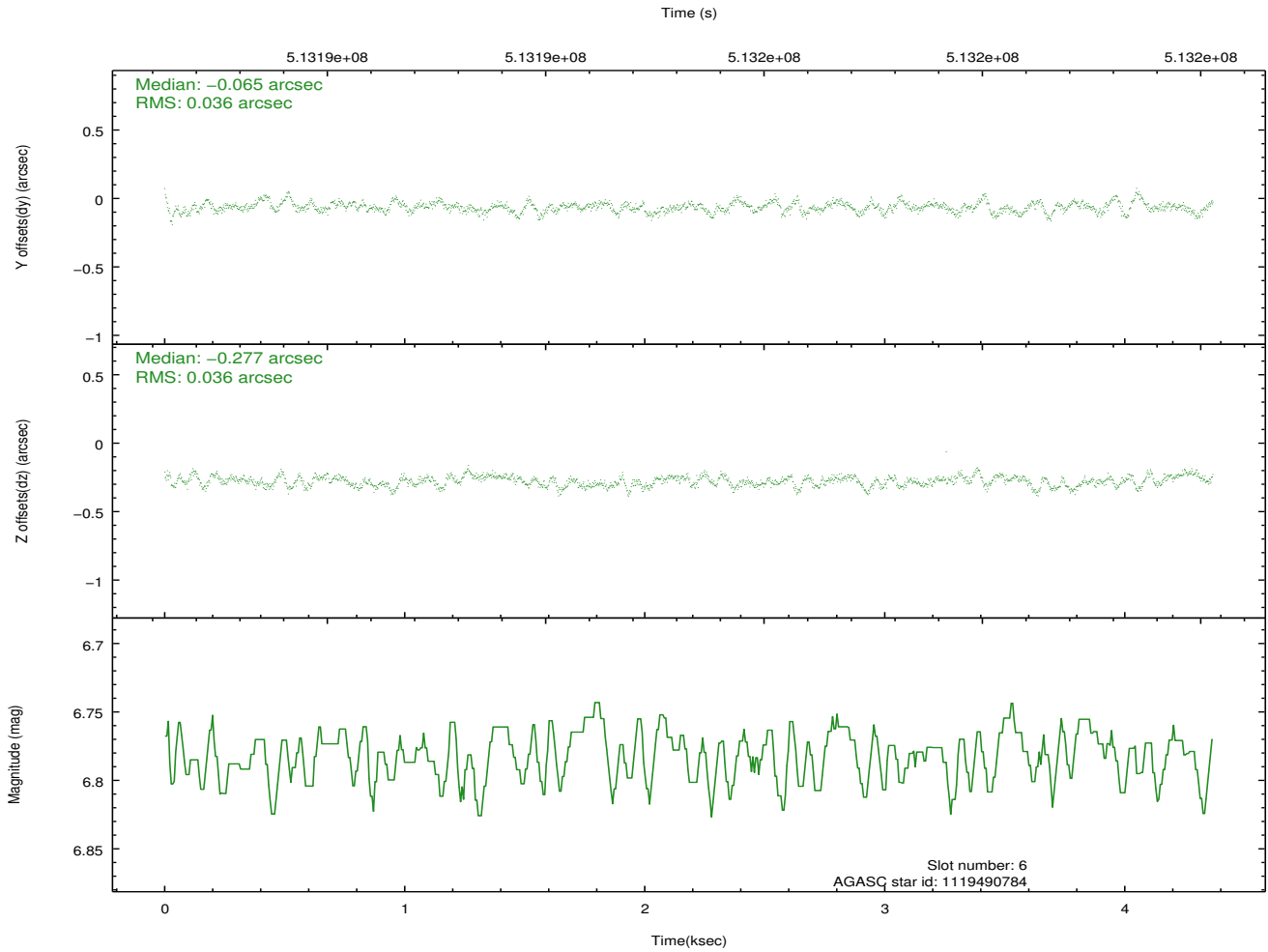
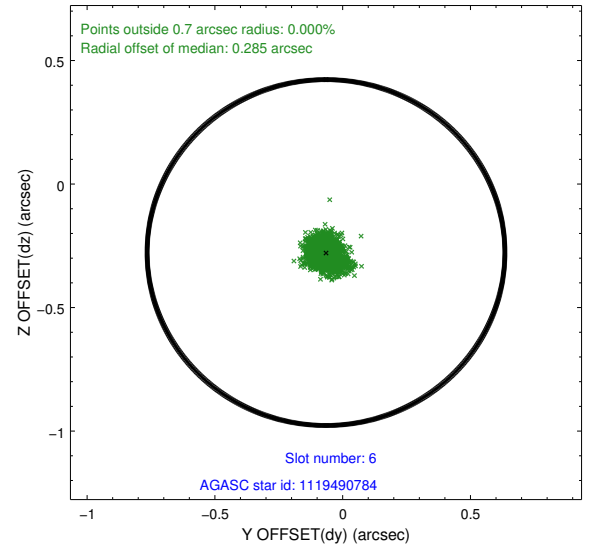
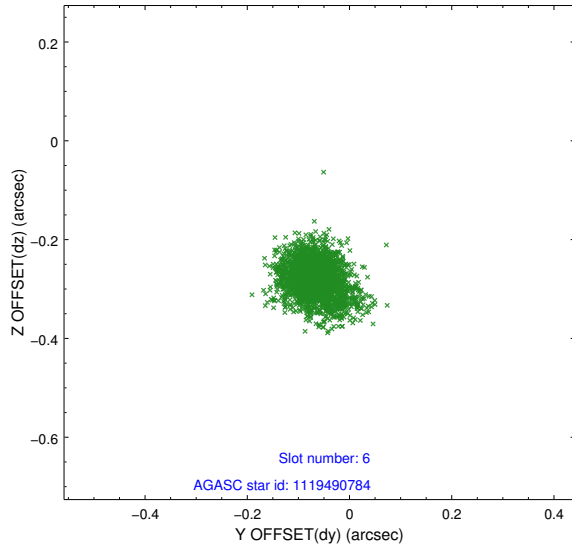
2.4.2 Slot 4



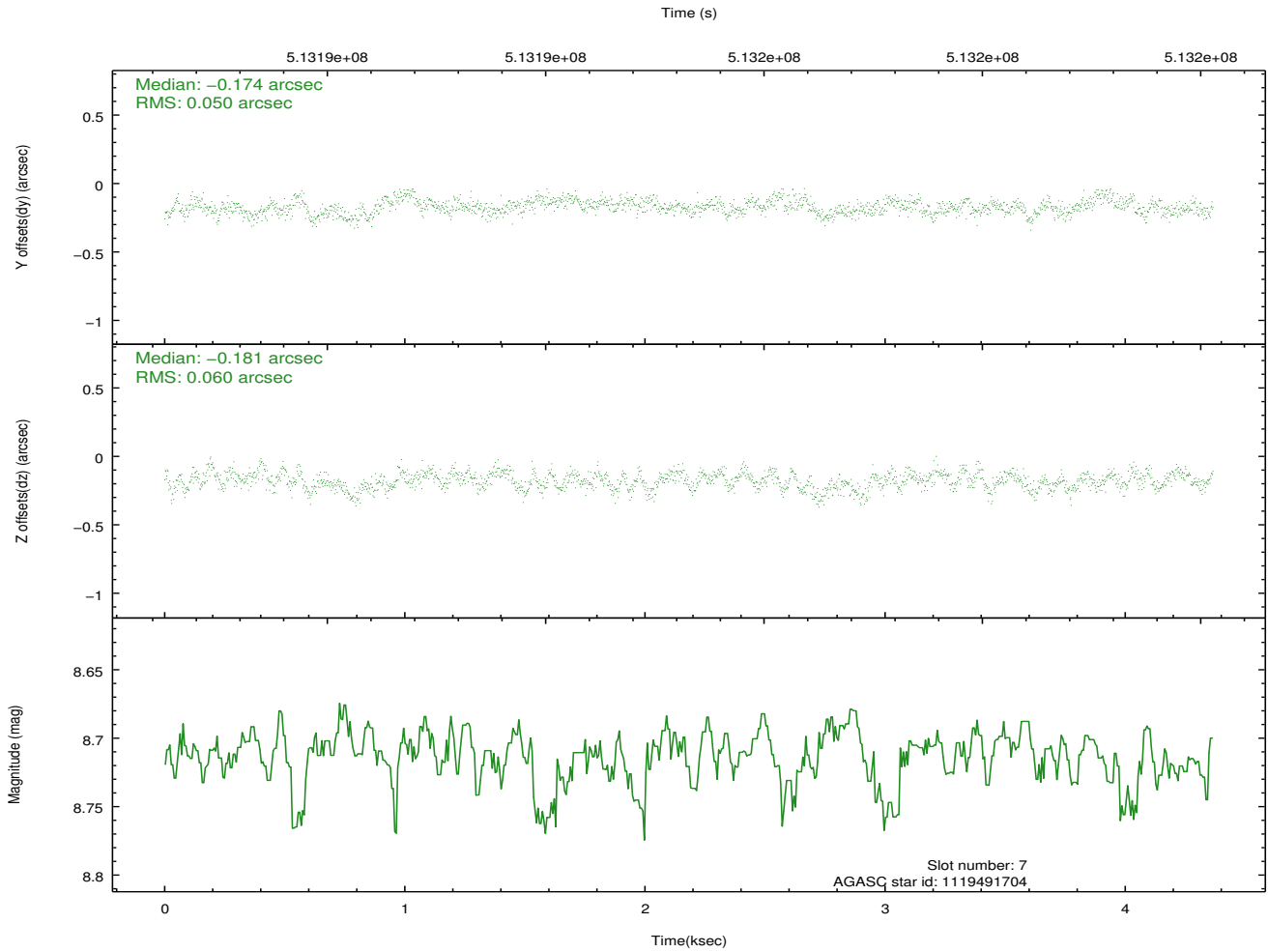
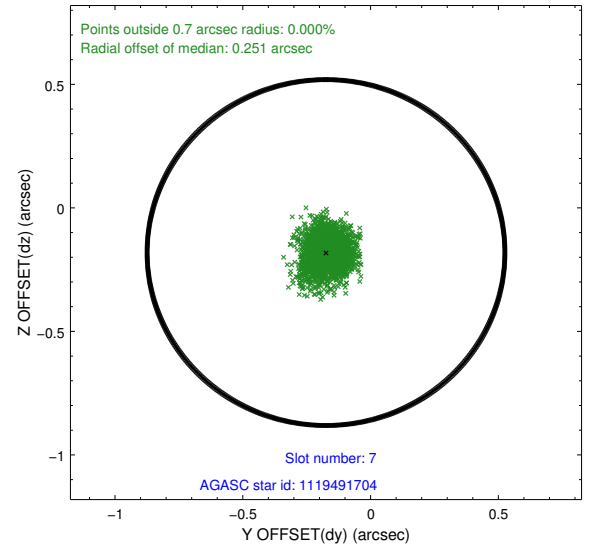
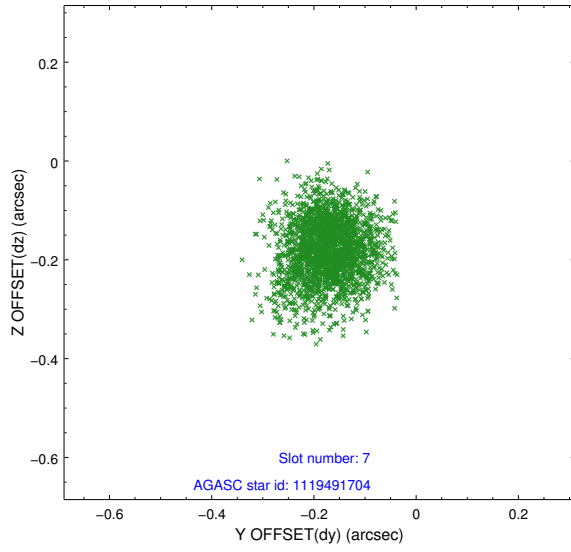
2.4.3 Slot 5



2.4.4 Slot 6

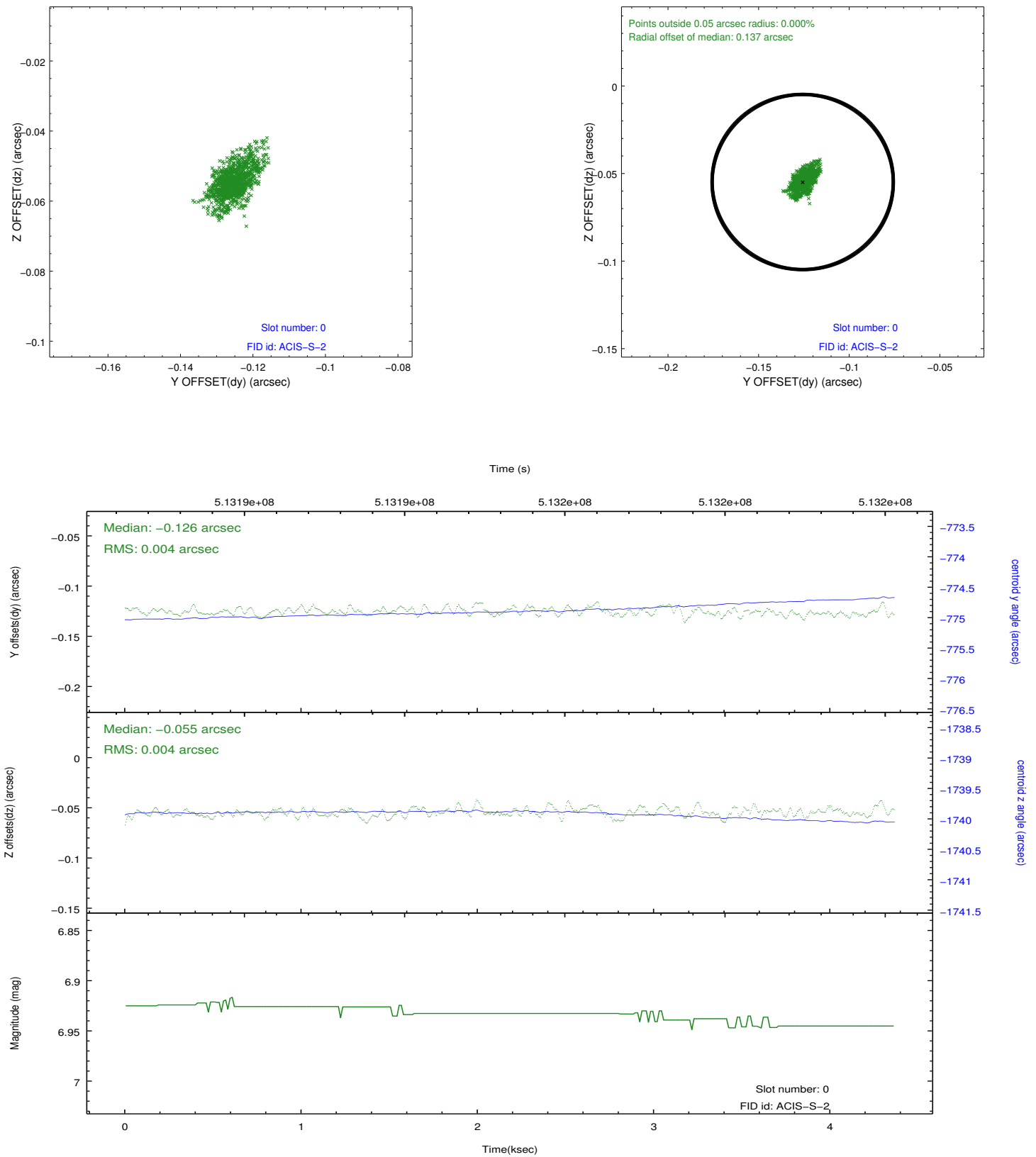


2.4.5 Slot 7

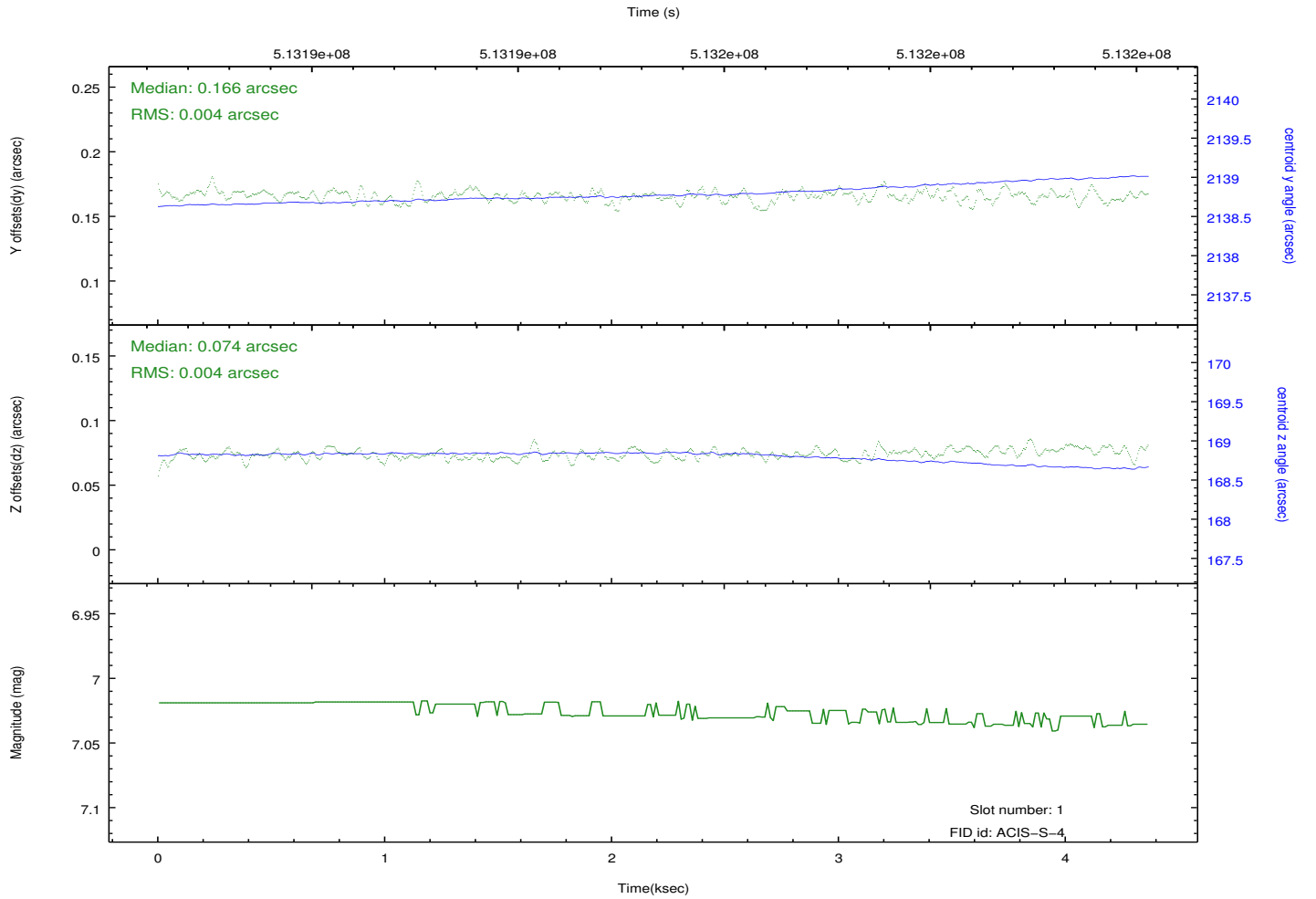
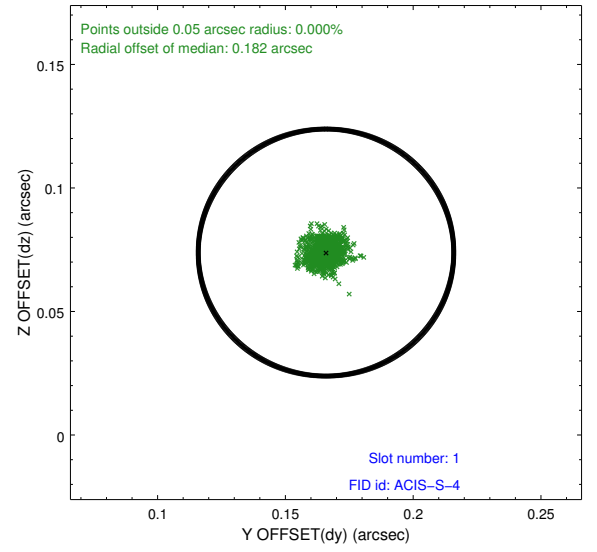
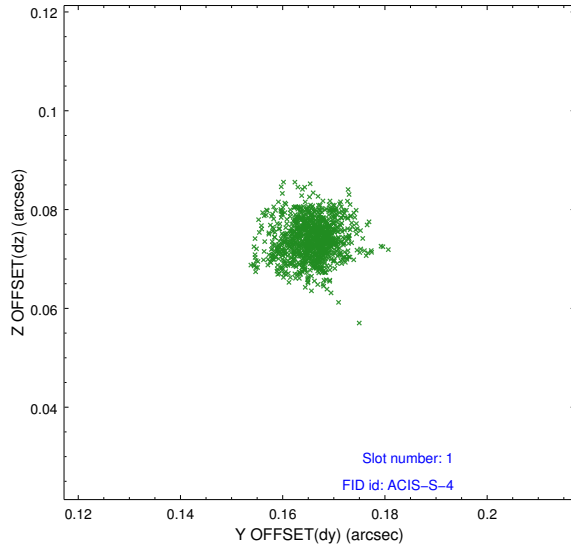


2.5 FID Slots

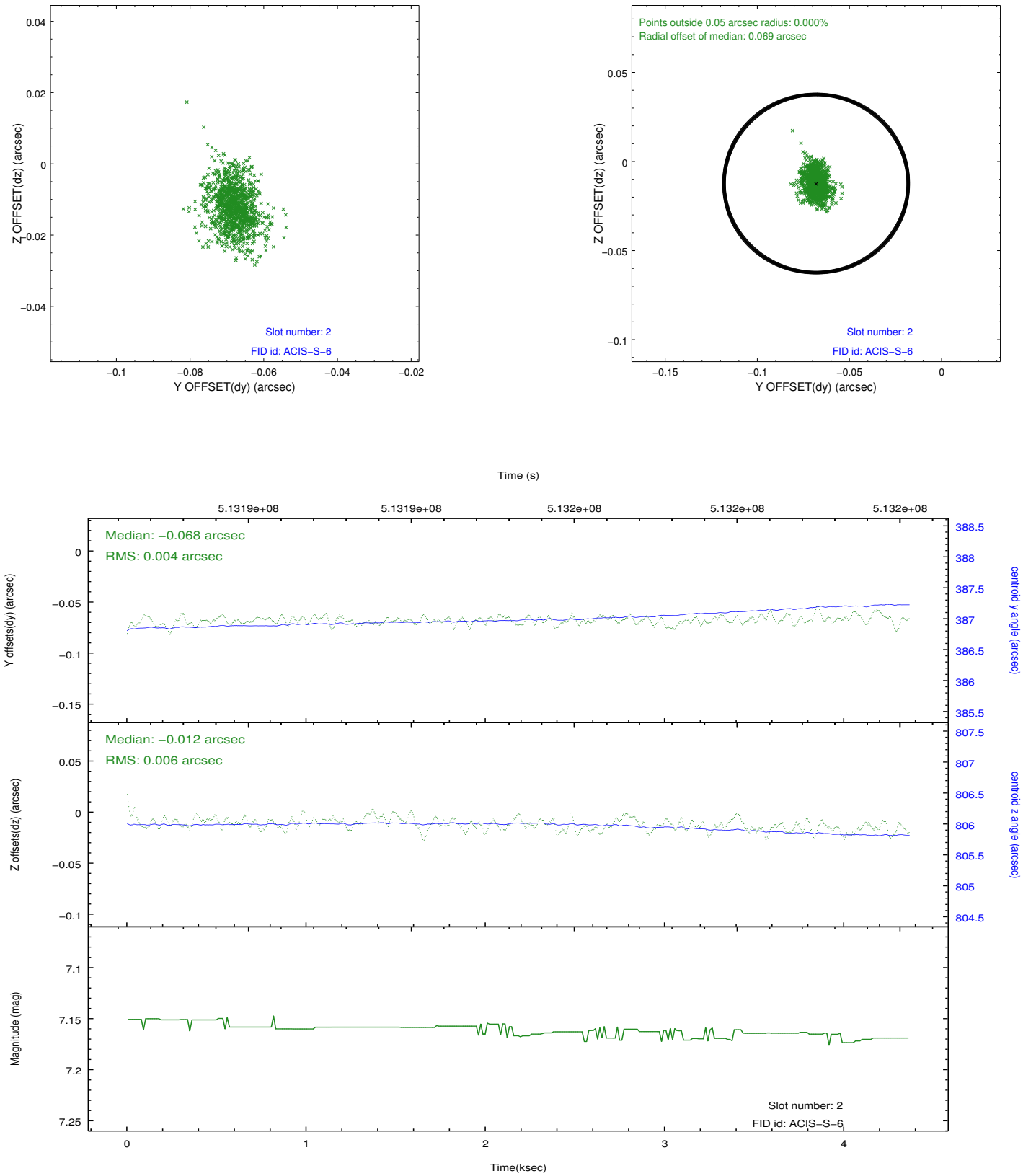
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5710896517038

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.