

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15579 - L2 Version 2
Chandra X-Ray Center

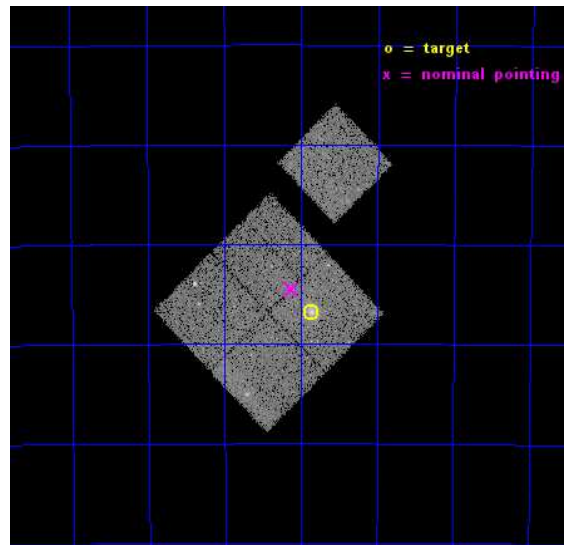
L2 Processing Date : Nov 29 2014

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

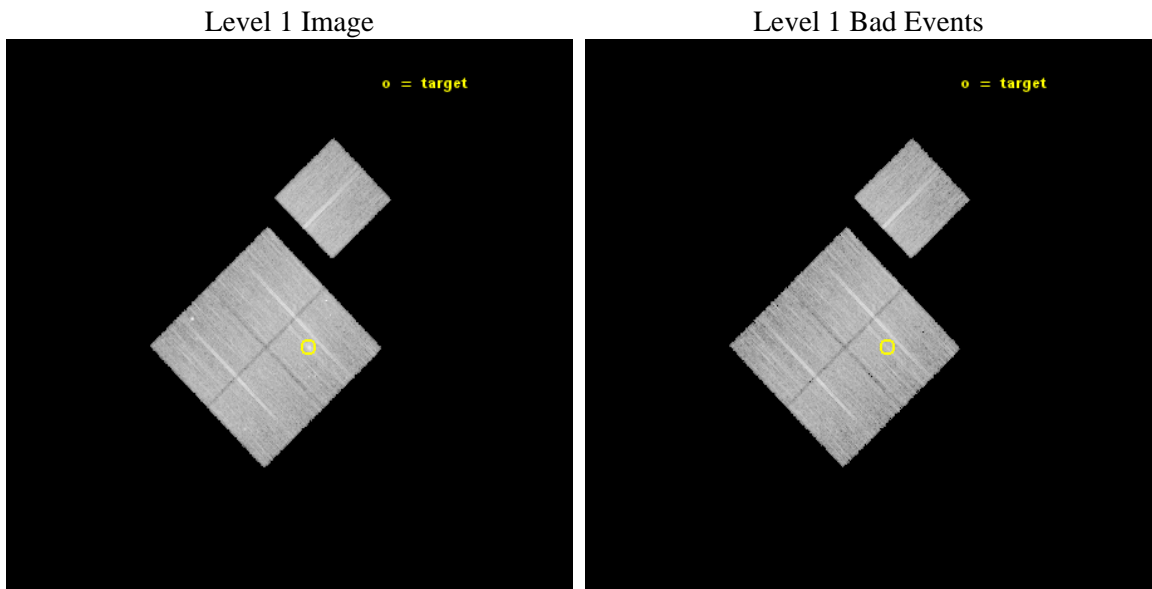
seq_num	801197	Sequence number
obs_id	15579	Observation id
title	A DETAILED CHANDRA/HST STUDY OF THE FIRST z approx 1 CLUSTER BLINDLY DISCOVERED IN THE PLANCK ALL SKY SURVEY	Proposal title
observer	Dr. Pasquale Mazzotta	Principal investigator
object	PLCKG266.6-27.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	93.966667	Observer's specified target RA [deg]
dec_targ	-57.781	Observer's specified target Dec [deg]
ra_nom	94.031545462358	Nominal RA [deg]
dec_nom	-57.74230364989	Nominal Dec [deg]
roll_nom	45.763564773804	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20078.700154424	Sum of GTIs [s]
livetime	19816.357155182	Livetime [s]
ontime0	20075.559164107	Sum of GTIs [s]
ontime1	20078.700154424	Sum of GTIs [s]
ontime2	20075.559193671	Sum of GTIs [s]
ontime3	20078.700154424	Sum of GTIs [s]
ontime6	20075.559124053	Sum of GTIs [s]
l2events	58405	Number of level 2 events



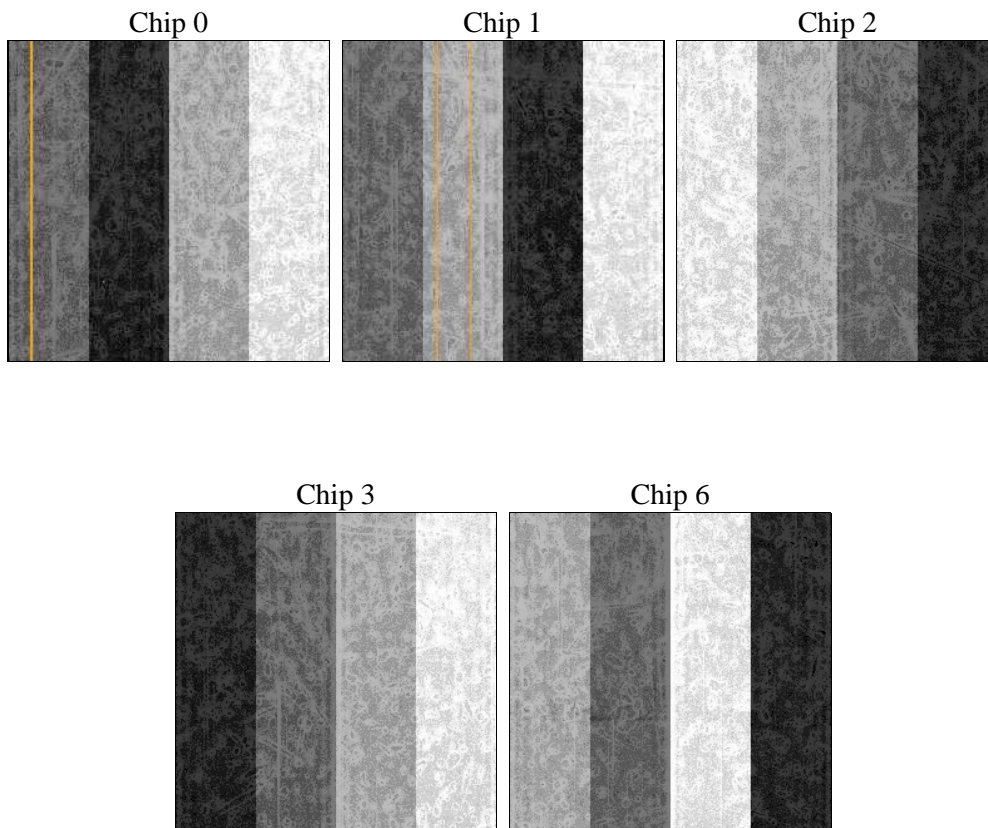
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19998.892000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20078.700154424	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	20075.559164107	Sum of GTIs [s]
date	2014-11-29T11:58:25	Date and time of file creation	ontime1	20078.700154424	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20075.559193671	Sum of GTIs [s]
			ontime3	20078.700154424	Sum of GTIs [s]
			ontime6	20075.559124053	Sum of GTIs [s]
			l1events	533217	Number of level 1 events

2.1.4 Events

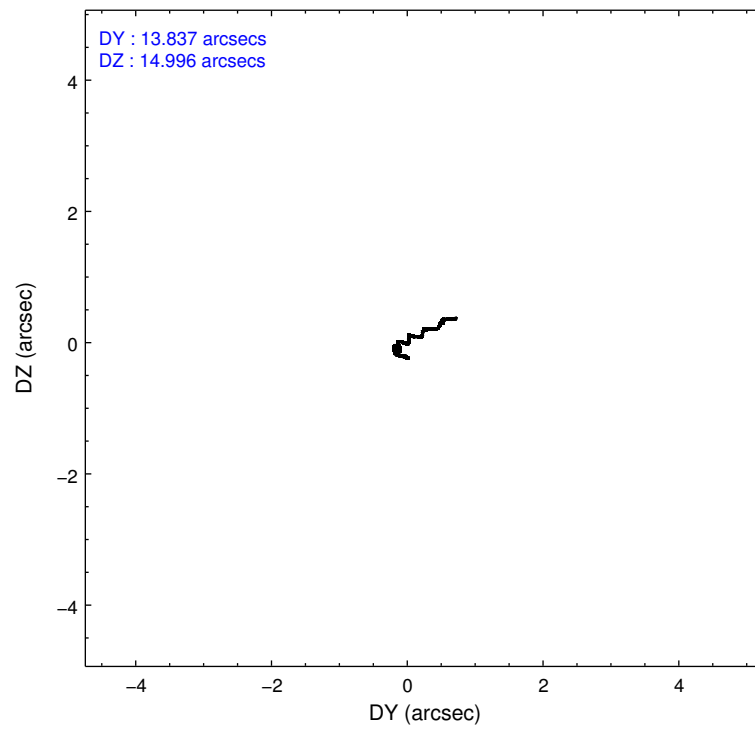
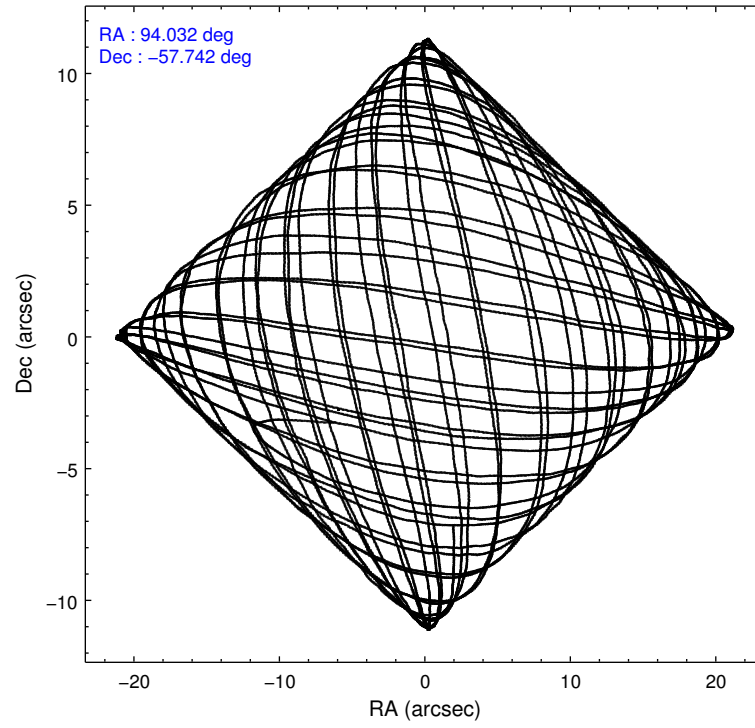
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	97938	101164	111953	111722	110440
rejected events	84469	86914	99413	96597	97318
rejected %	86%	85%	88%	86%	88%

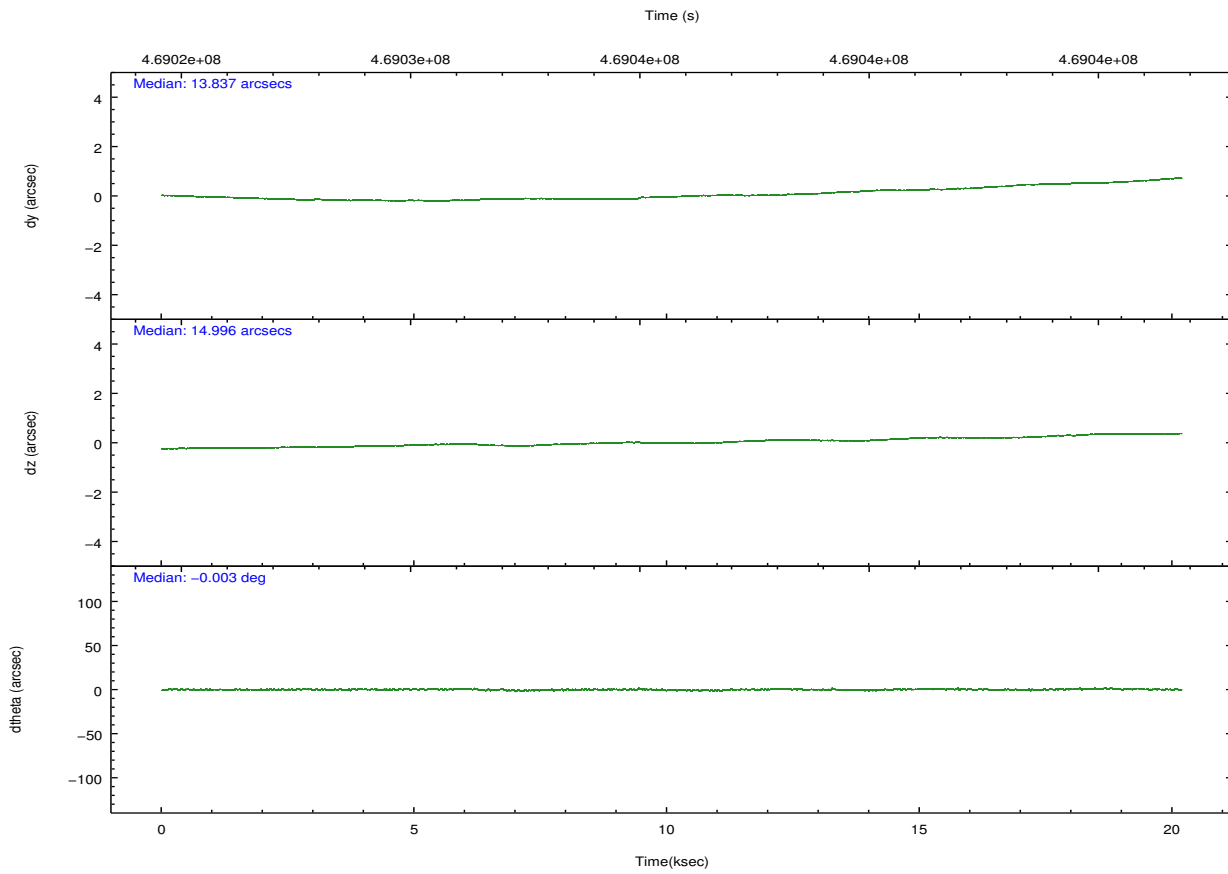
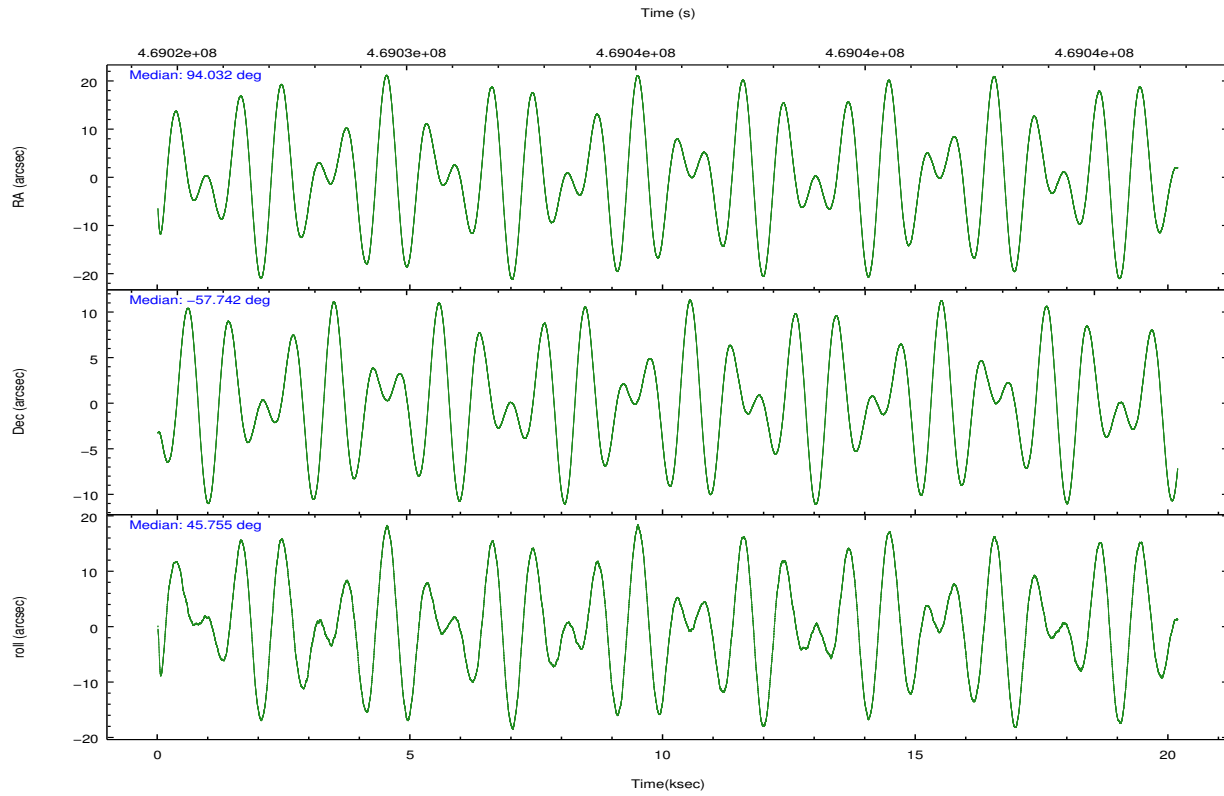
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5007	5167	4475	6749	4636
	5%	5%	3%	6%	4%
grade 1 events	56	58	65	86	56
	0%	0%	0%	0%	0%
grade 2 events	3268	3429	2973	2977	2935
	3%	3%	2%	2%	2%
grade 3 events	1381	1371	1255	1383	1294
	1%	1%	1%	1%	1%
grade 4 events	1230	1362	1332	1430	1339
	1%	1%	1%	1%	1%
grade 5 events	5081	5372	4798	5661	5322
	5%	5%	4%	5%	4%
grade 6 events	2589	2924	2507	2591	2921
	2%	2%	2%	2%	2%
grade 7 events	79326	81481	94548	90845	91937
	80%	80%	84%	81%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	94.019077	94.0315454623582	CCD I2 on	Y	Y
[deg] Pointing Dec	-57.768959	-57.74230364989033	CCD I3 on	Y	Y
[deg] Pointing Roll	45.544332	45.76356477380374	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.848371962627	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.744081040302689	CCD S4 on	N	N
[s] Observation start time (MET)	469025795.184000	469024829.49407	CCD S5 on	N	N
Observation start date	2012-11-11T12:55:28	2012-11-11T12:40:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	469045794.184000	469046028.54521	On-chip summing requested	N	N
Observation end date	2012-11-11T18:28:47	2012-11-11T18:33:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





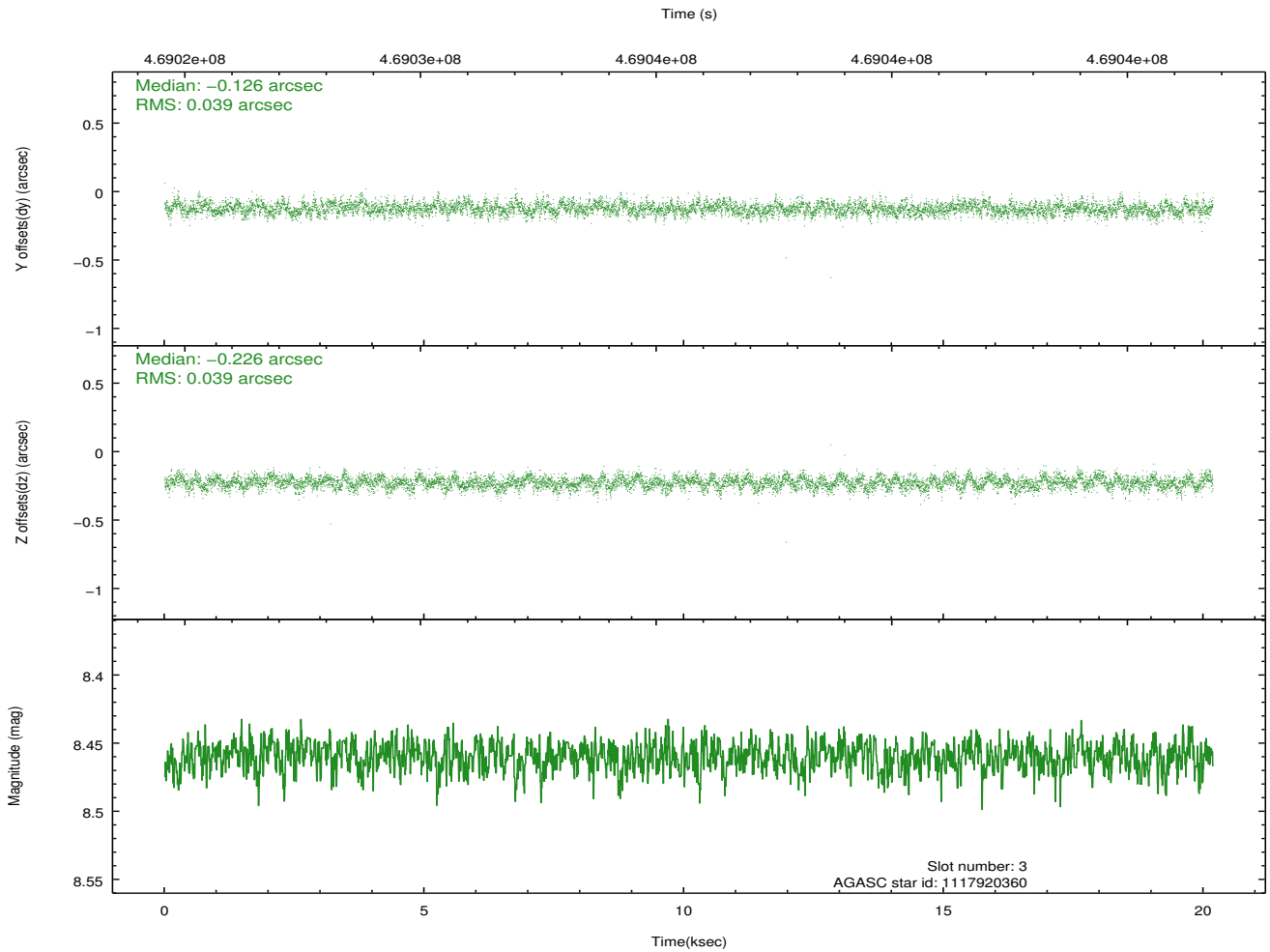
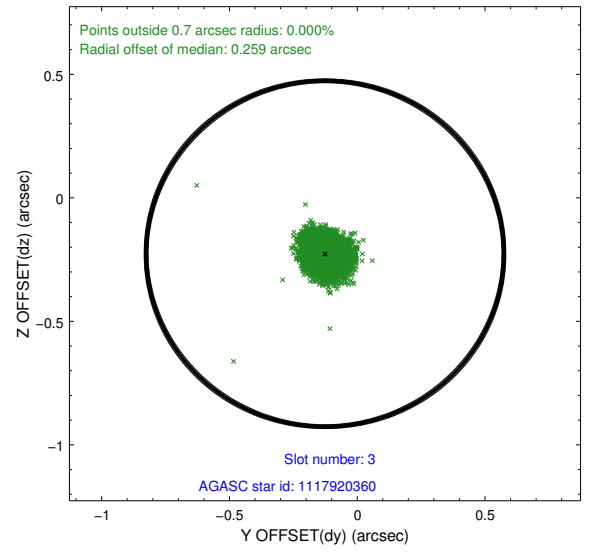
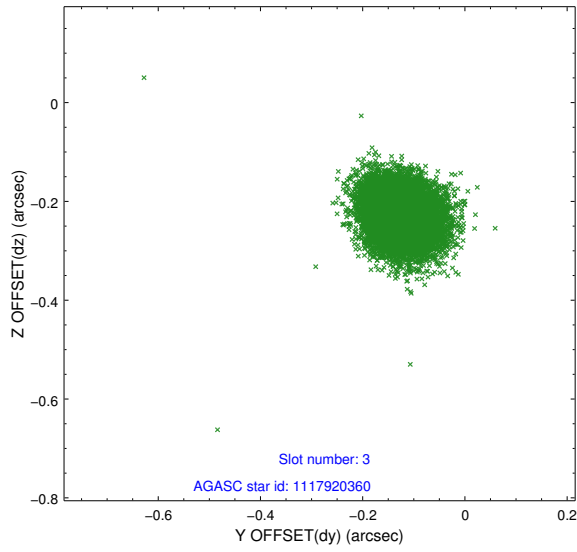
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	4922	0.131	-0.105	0.011	0.020	0.000000	0.000000	925.58	-997.69
1	FID		ACIS-I-5	7.15	4922	-0.332	0.091	0.009	0.015	0.000000	0.000000	-1822.93	899.81
2	FID		ACIS-I-6	7.16	4922	0.109	0.084	0.008	0.012	0.000000	0.000000	390.85	1544.57
3	GUIDE	used	1117920360	8.46	9844	-0.126	-0.226	0.059	0.095	92.689586	-57.826981	-1951.69	1655.10
4	GUIDE	used	1119617128	9.08	9842	0.470	0.557	0.107	0.178	93.986624	-58.000911	-638.62	-539.64
5	GUIDE	used	1119617976	7.99	9839	-0.227	-0.237	0.077	0.122	94.543198	-57.336411	1822.15	361.57
6	GUIDE	used	1119620096	9.02	9834	-0.243	0.140	0.109	0.173	94.803811	-58.054312	308.62	-1791.63
7	GUIDE	used	1119619792	9.41	9777	0.120	-0.225	0.103	0.173	93.499770	-57.916921	-1077.84	332.87

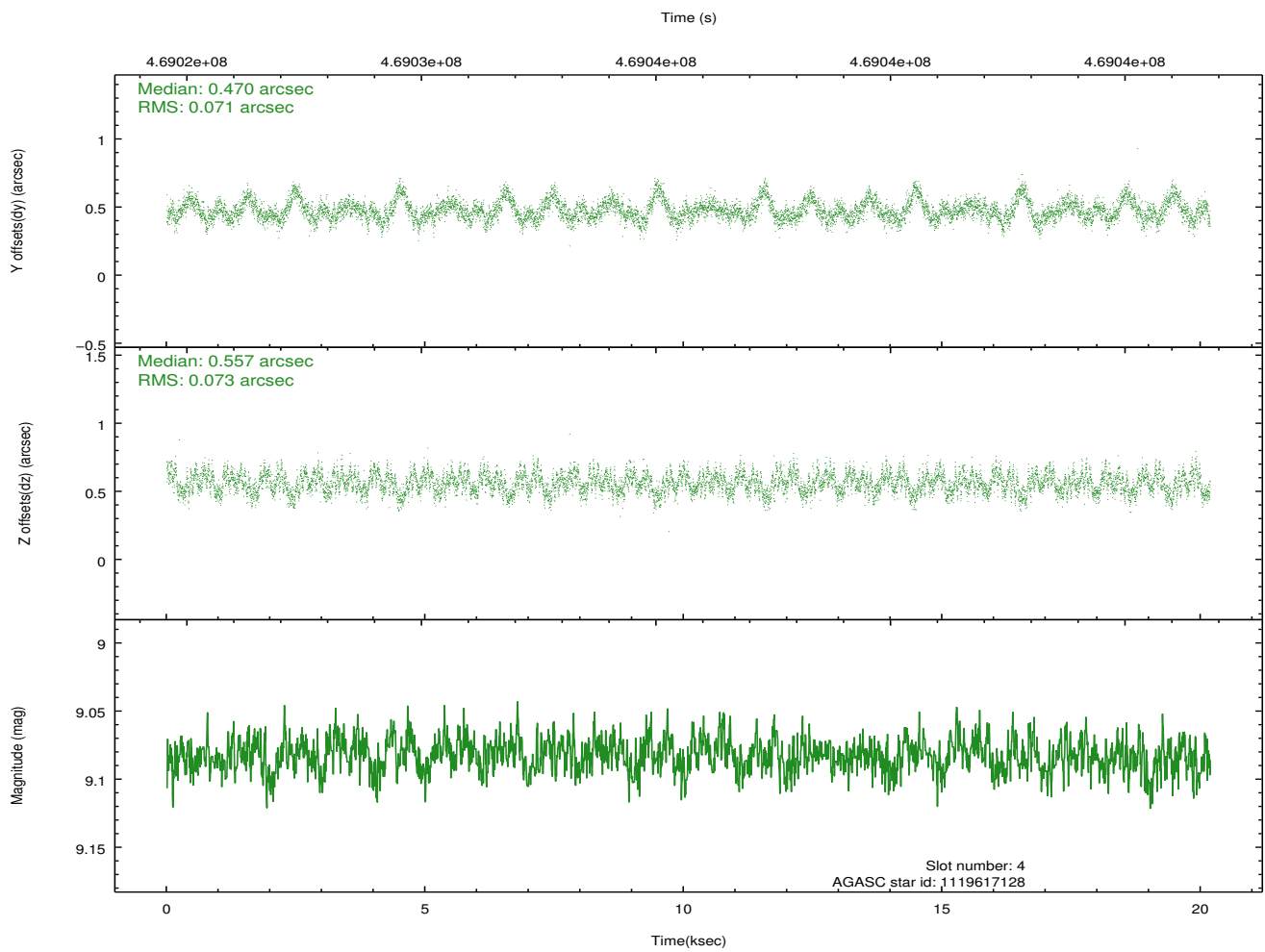
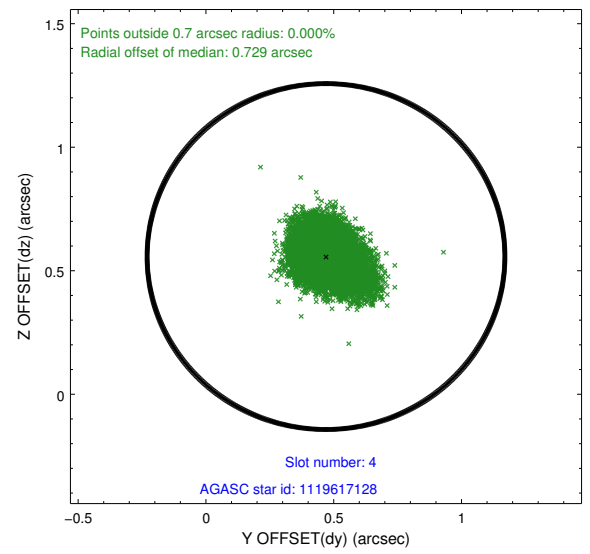
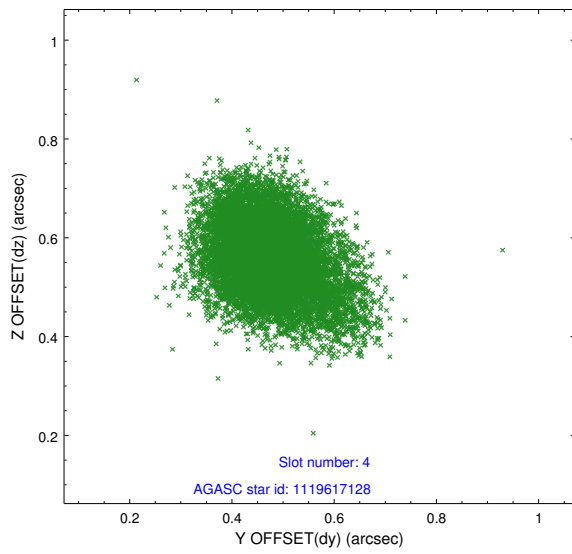
∞

2.4 Star Slots

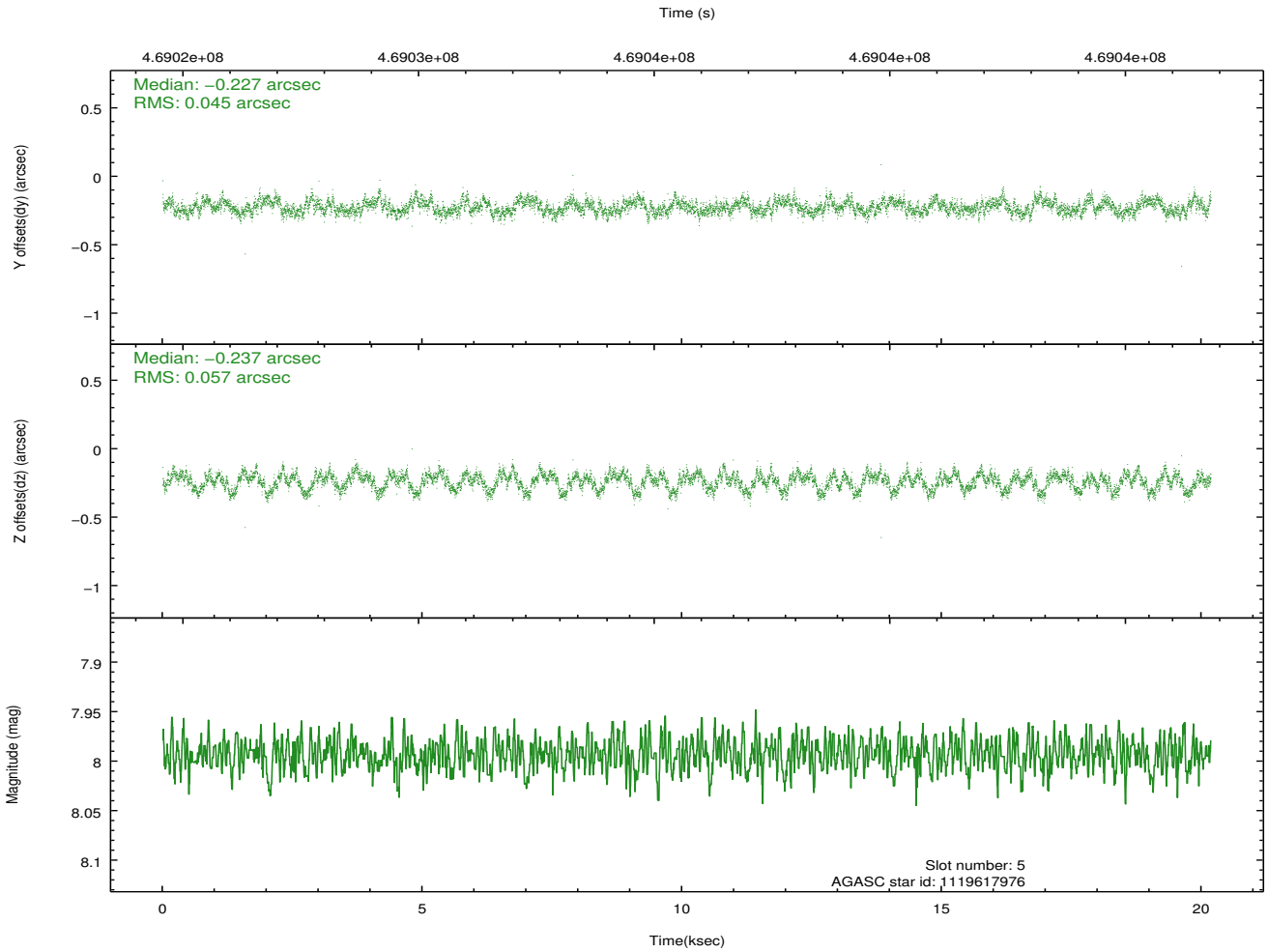
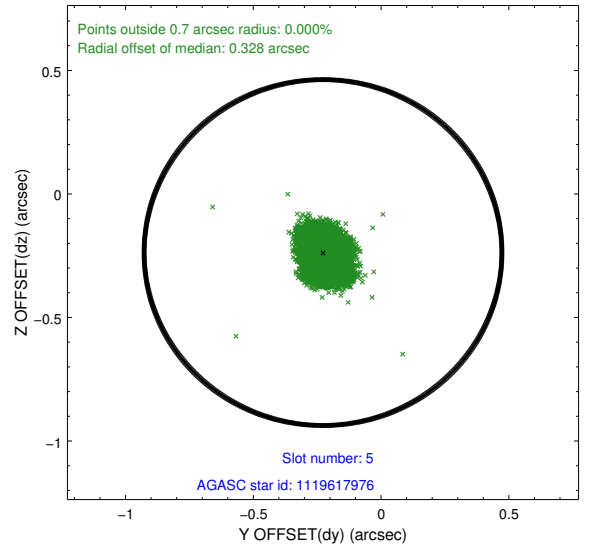
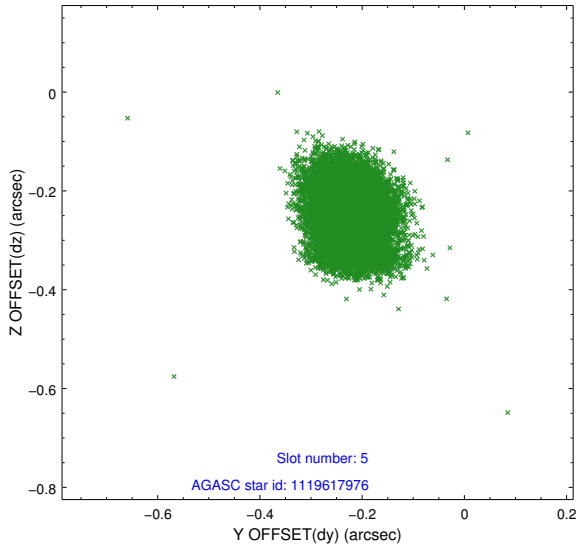
2.4.1 Slot 3



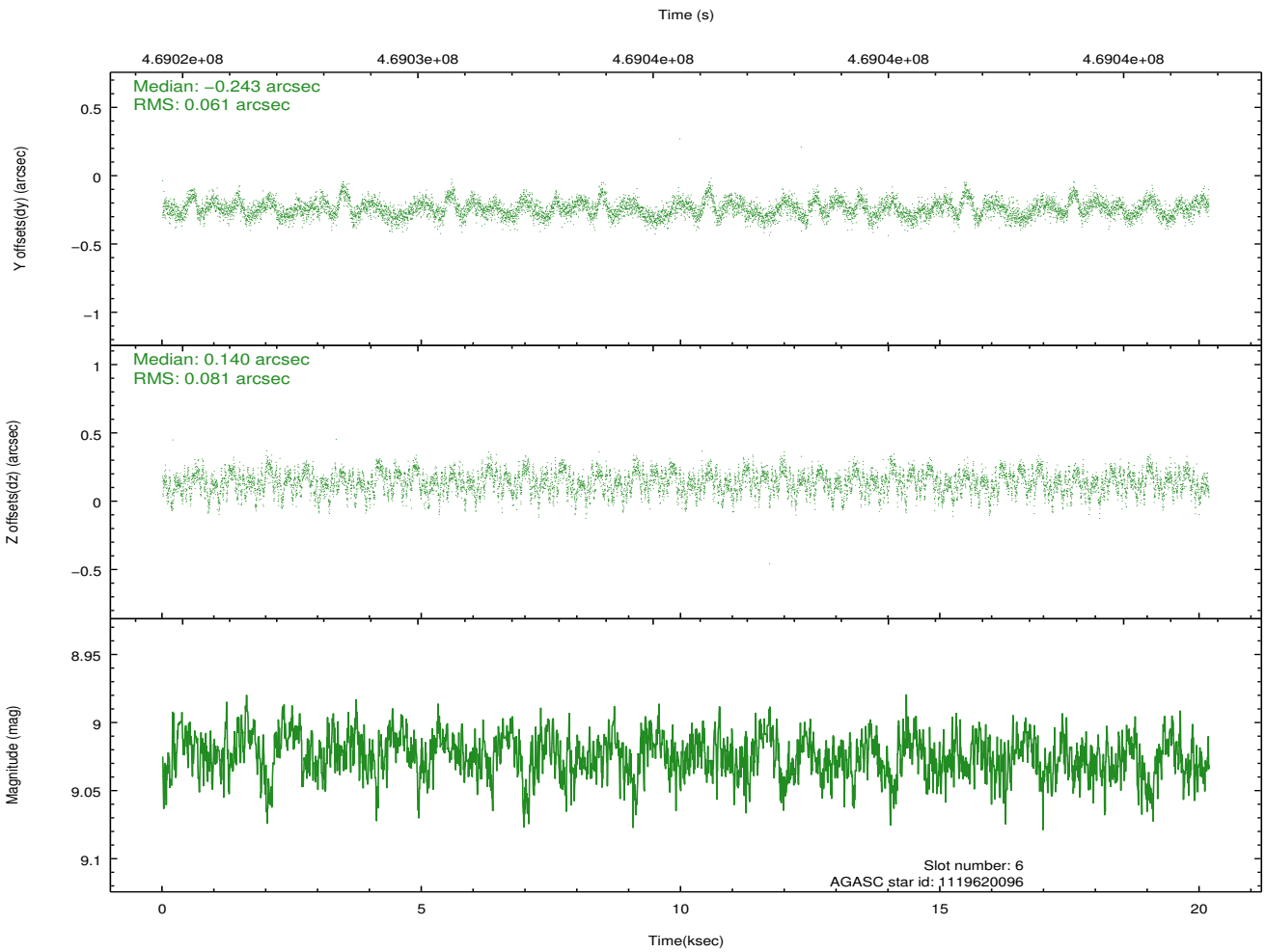
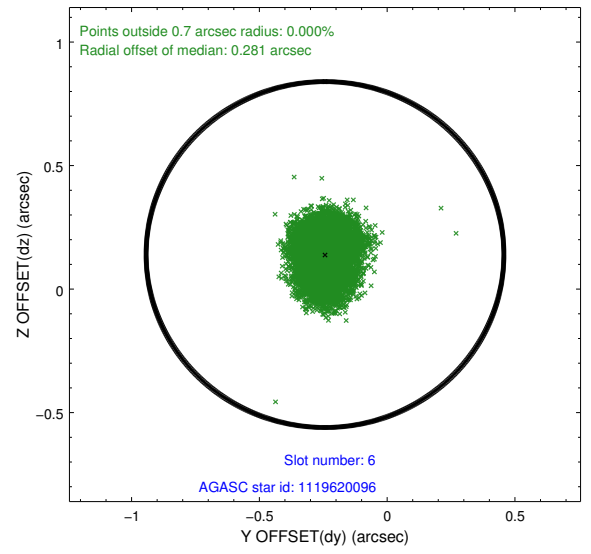
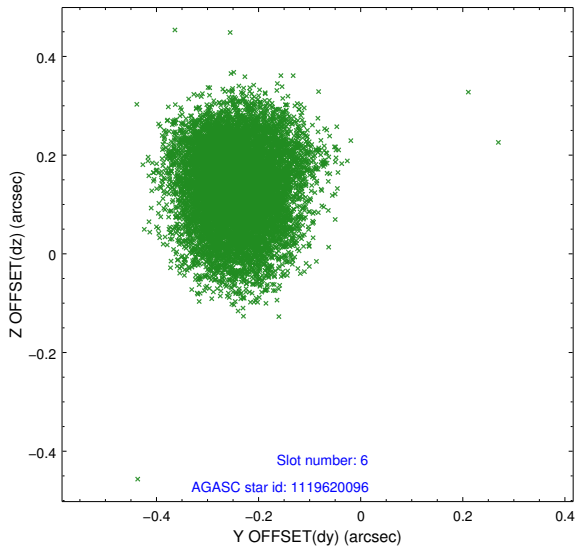
2.4.2 Slot 4



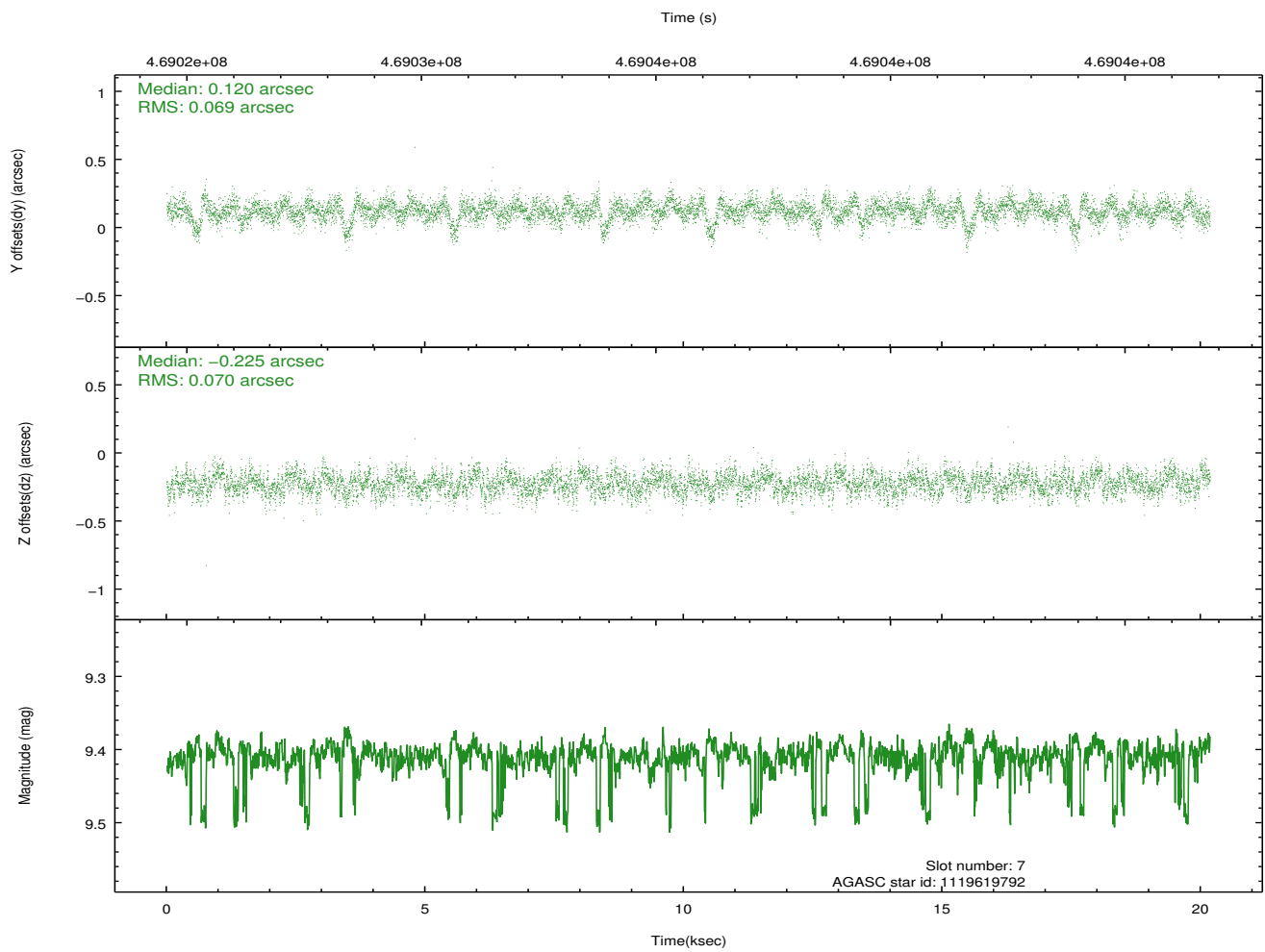
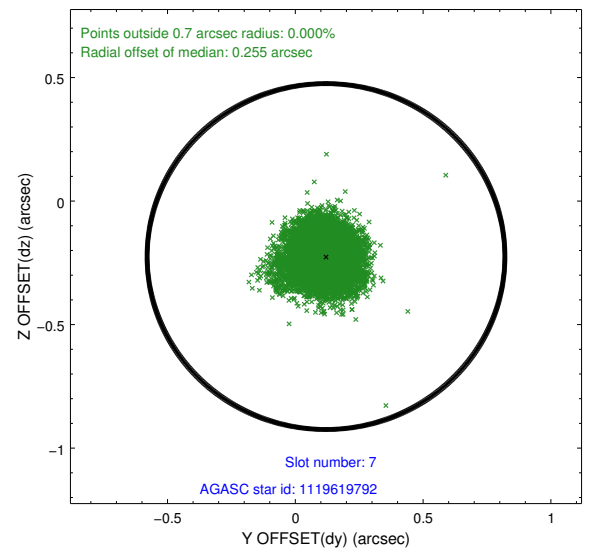
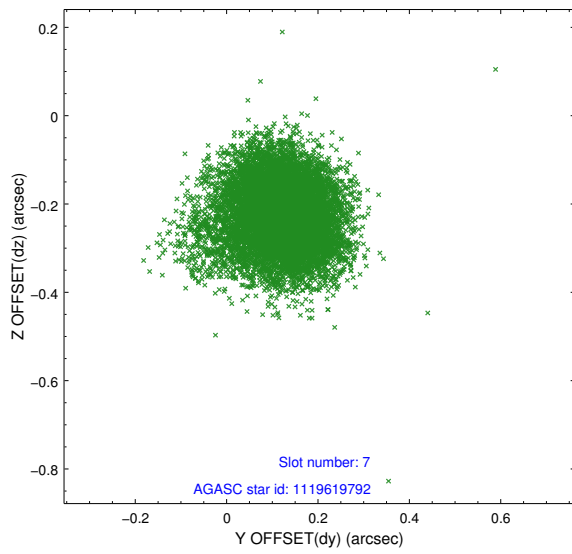
2.4.3 Slot 5



2.4.4 Slot 6

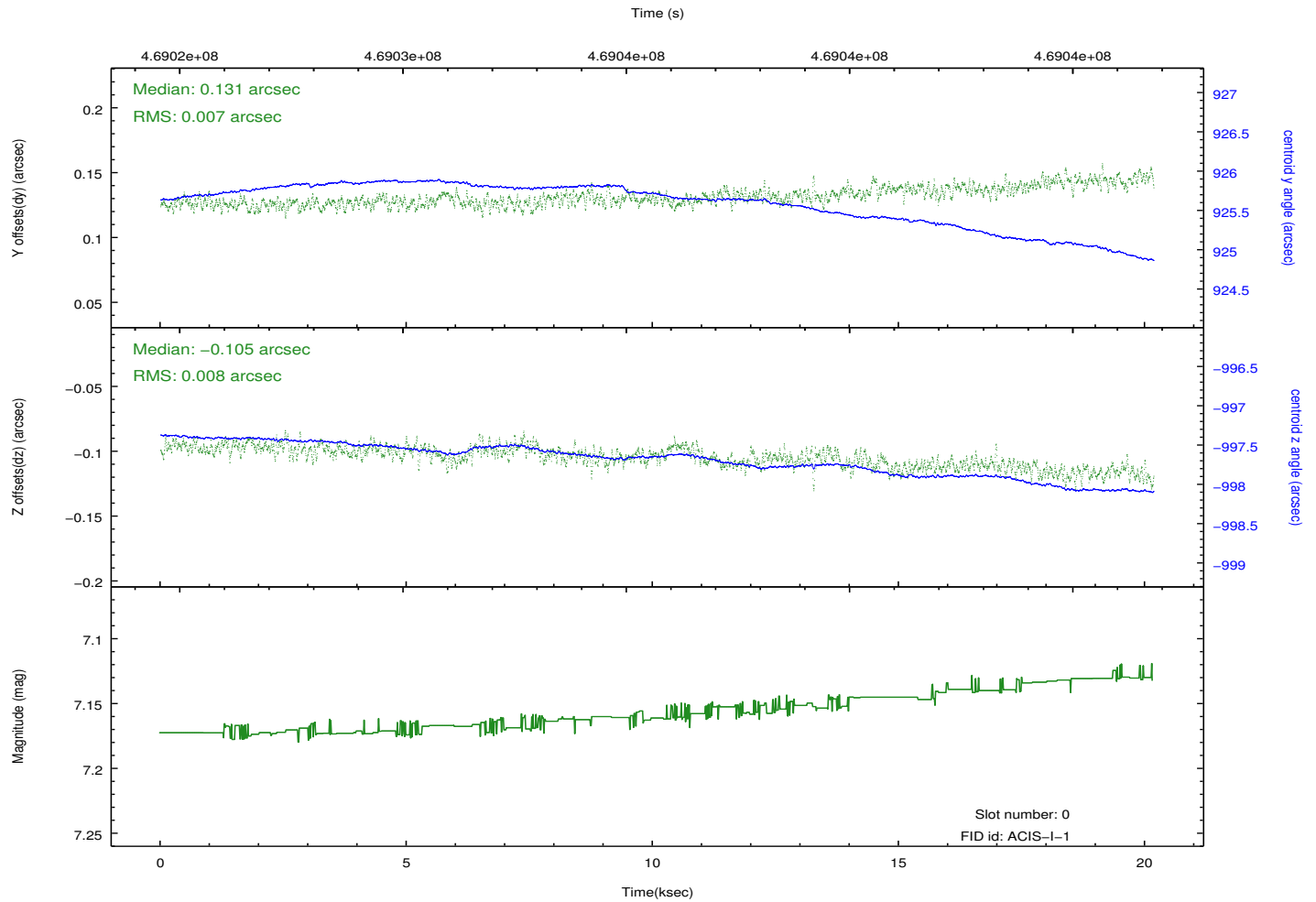
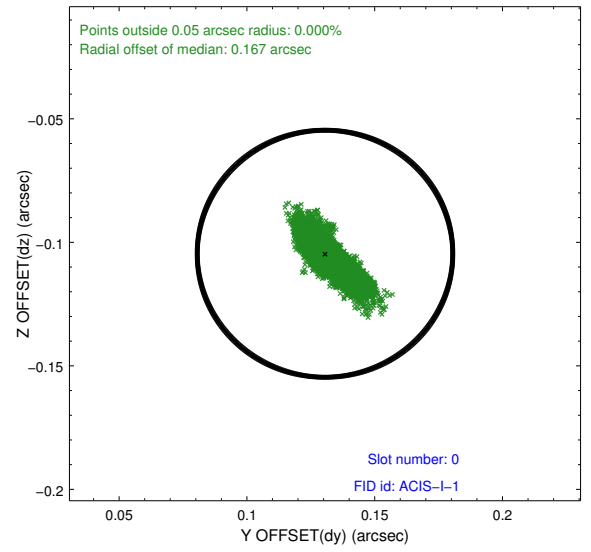
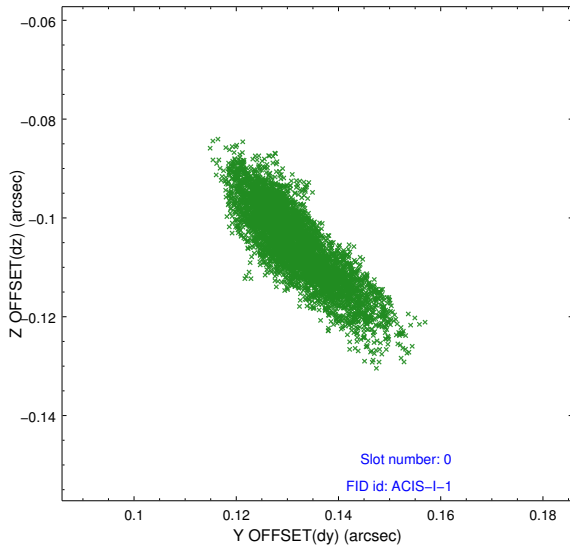


2.4.5 Slot 7

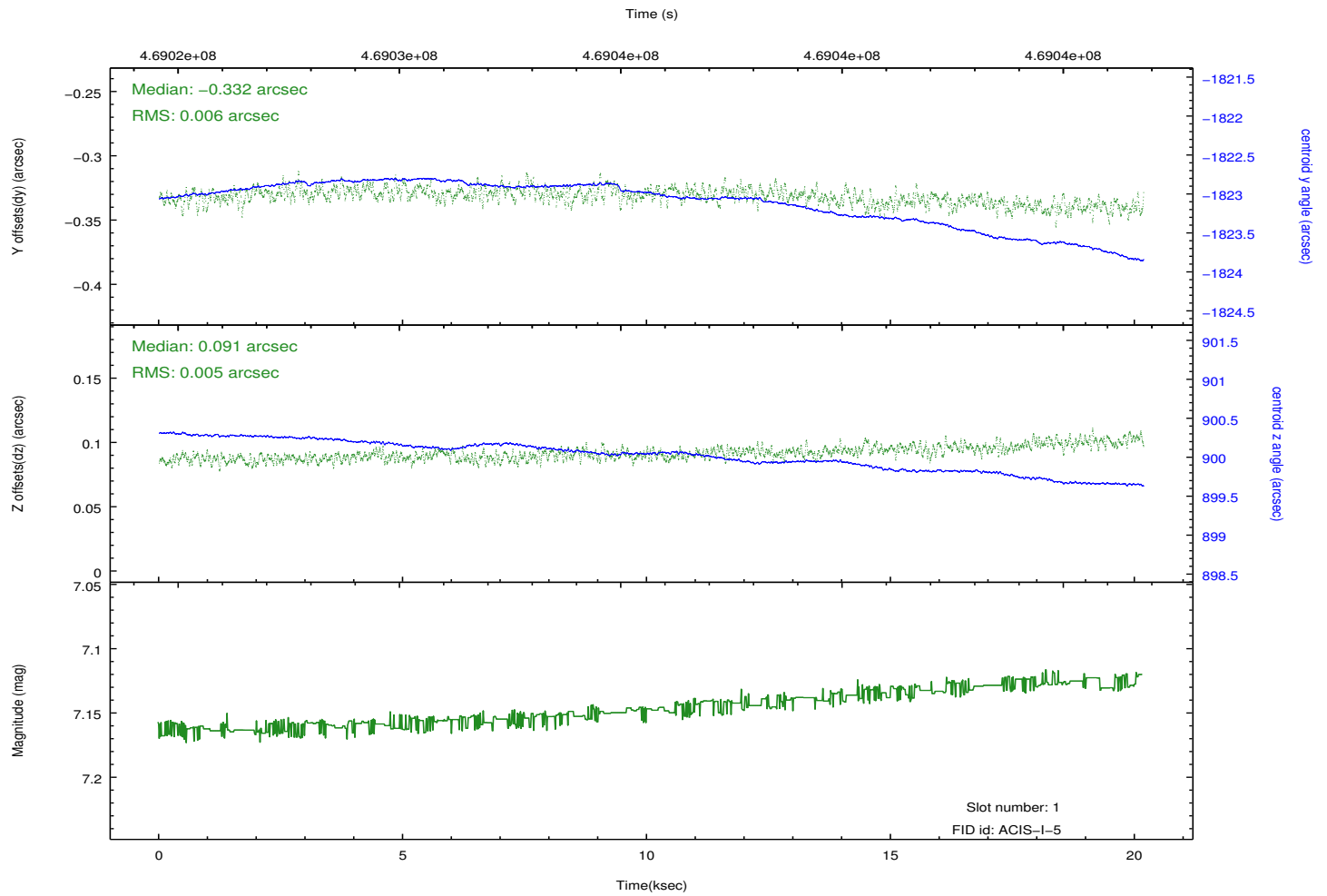
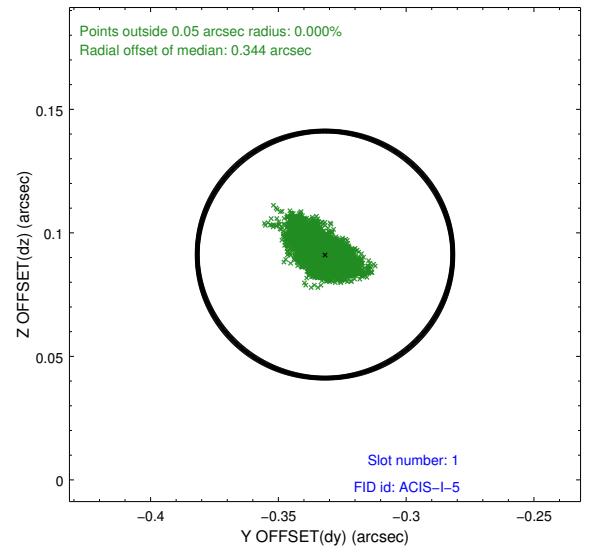
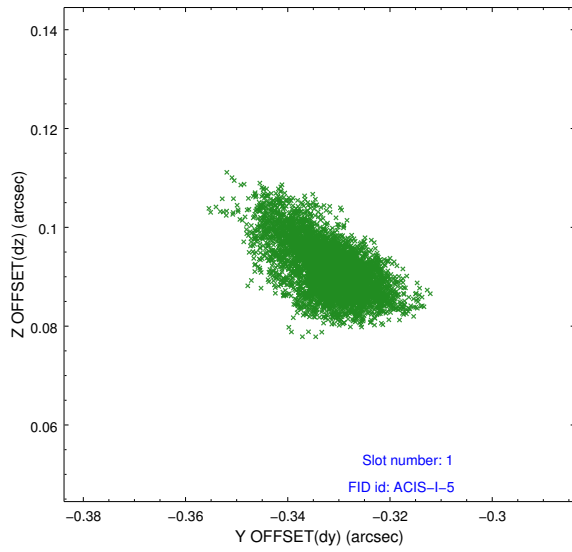


2.5 FID Slots

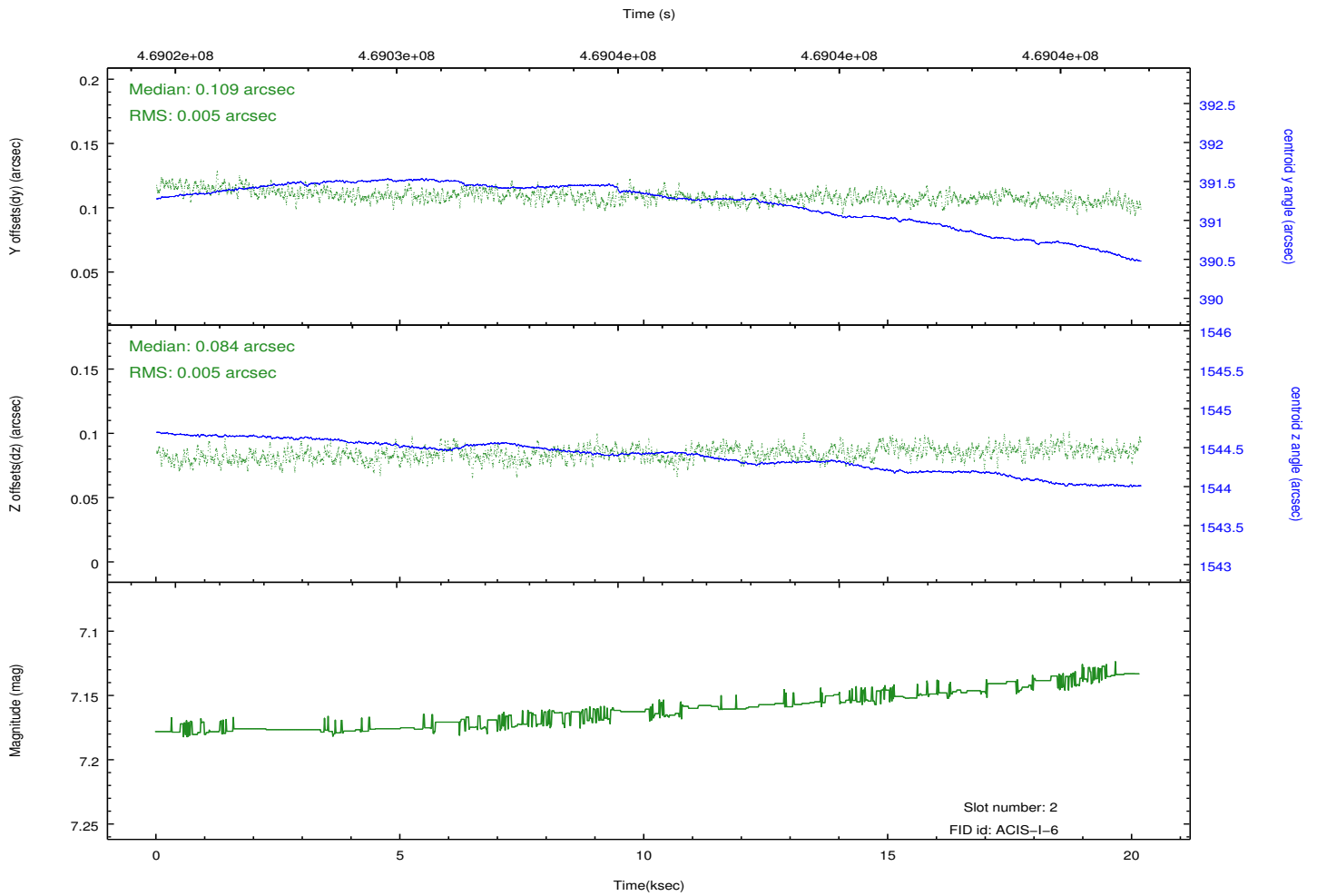
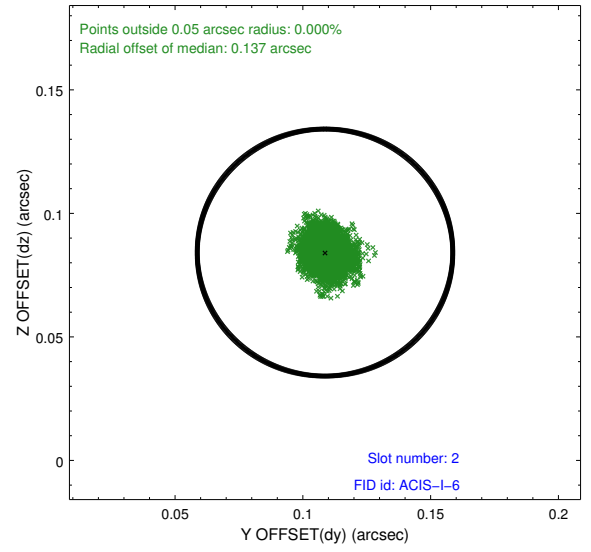
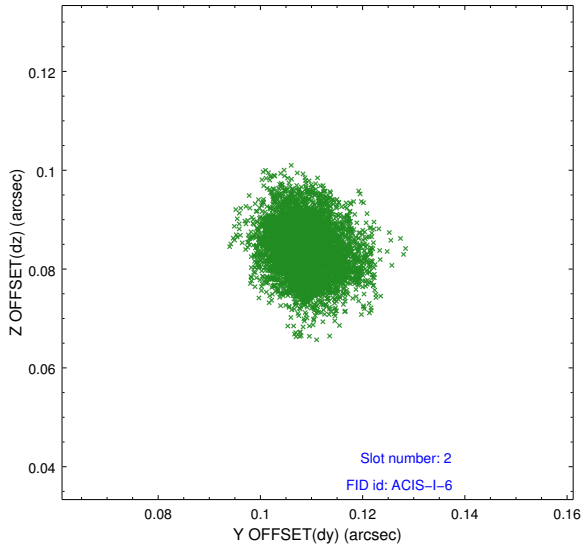
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.078700154424

A.2 Comments

Joint Proposal: HST

=====

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.