

V&V Reference Report

L2 ASCDS Version : 10

Observation 14889 - L2 Version 2
Chandra X-Ray Center

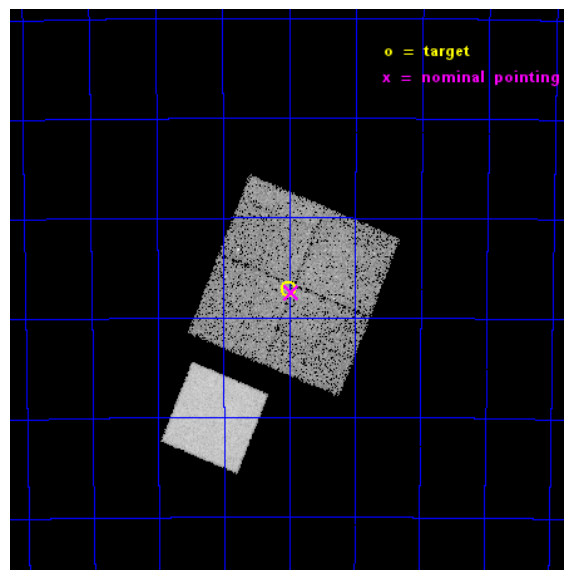
L2 Processing Date : Dec 6 2014

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

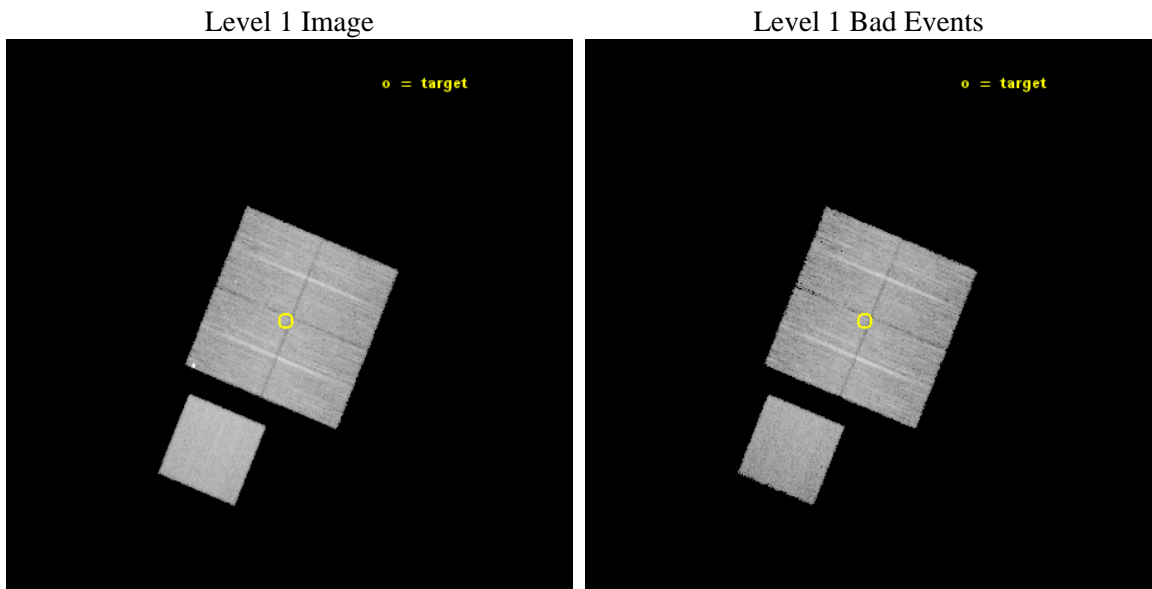
seq_num	502013	Sequence number
obs_id	14889	Observation id
title	Chandra observations of 4 Fermi-LAT-detected Supernova Remnants with pulsar-like gamma-ray emission	Proposal title
observer	Dr Pablo Saz Parkinson	Principal investigator
object	G298.6-0.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.505	Observer's specified target RA [deg]
dec_targ	-62.619806	Observer's specified target Dec [deg]
ra_nom	183.49136924658	Nominal RA [deg]
dec_nom	-62.624957059784	Nominal Dec [deg]
roll_nom	202.20824361416	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.359164178	Sum of GTIs [s]
livetime	19807.138211851	Livetime [s]
ontime0	20072.500154376	Sum of GTIs [s]
ontime1	20072.500154376	Sum of GTIs [s]
ontime2	20072.500154376	Sum of GTIs [s]
ontime3	20069.359164178	Sum of GTIs [s]
ontime7	20072.500154376	Sum of GTIs [s]
l2events	95834	Number of level 2 events



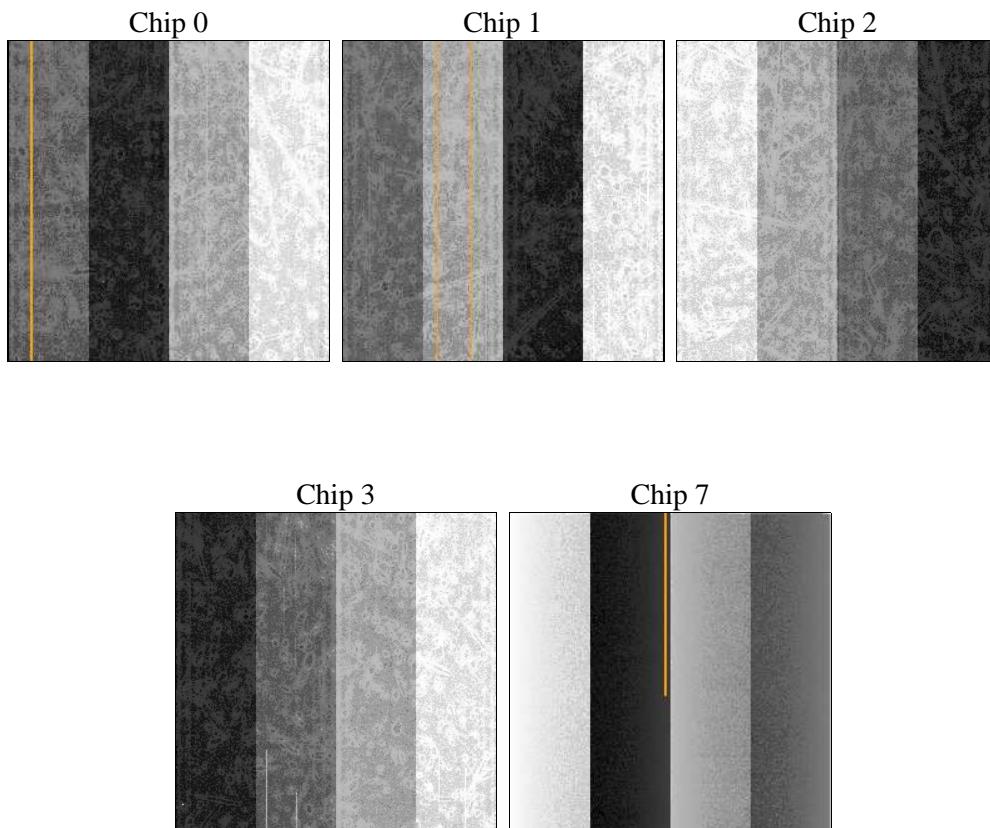
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	20069.359164178	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	20072.500154376	Sum of GTIs [s]
date	2014-12-06T10:32:25	Date and time of file creation	ontime1	20072.500154376	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20072.500154376	Sum of GTIs [s]
			ontime3	20069.359164178	Sum of GTIs [s]
			ontime7	20072.500154376	Sum of GTIs [s]
			l1events	479992	Number of level 1 events

2.1.4 Events

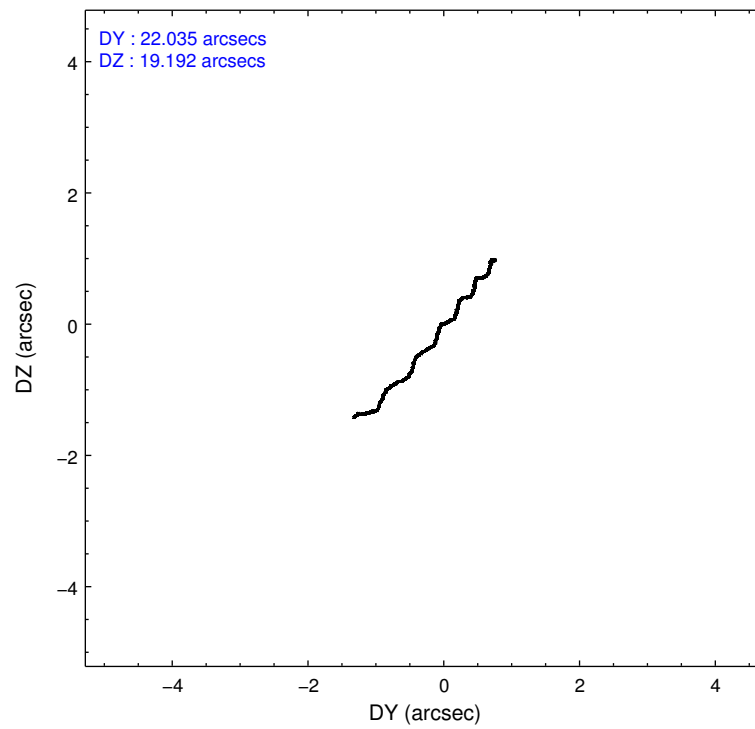
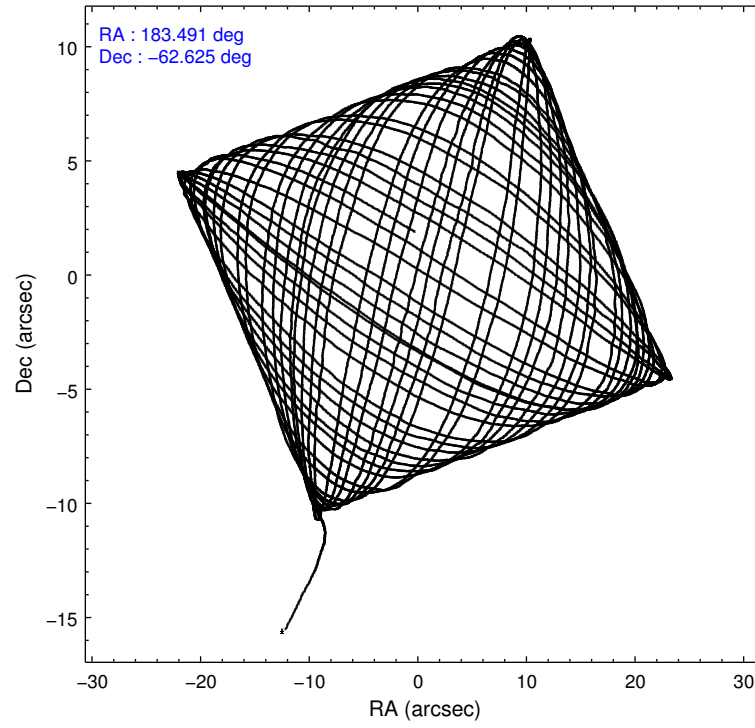
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	83942	86056	92757	90916	126321
rejected events	70701	72923	80853	77508	70935
rejected %	84%	84%	87%	85%	56%

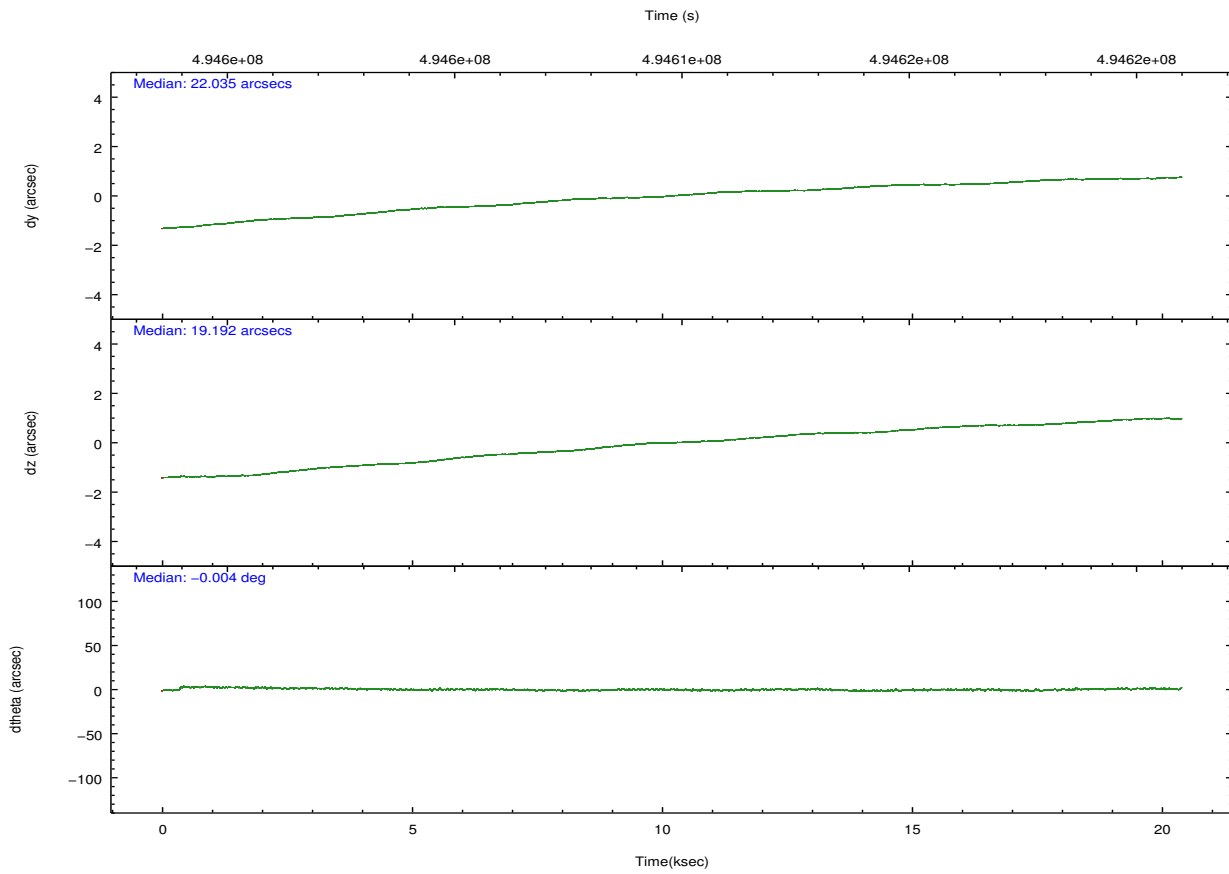
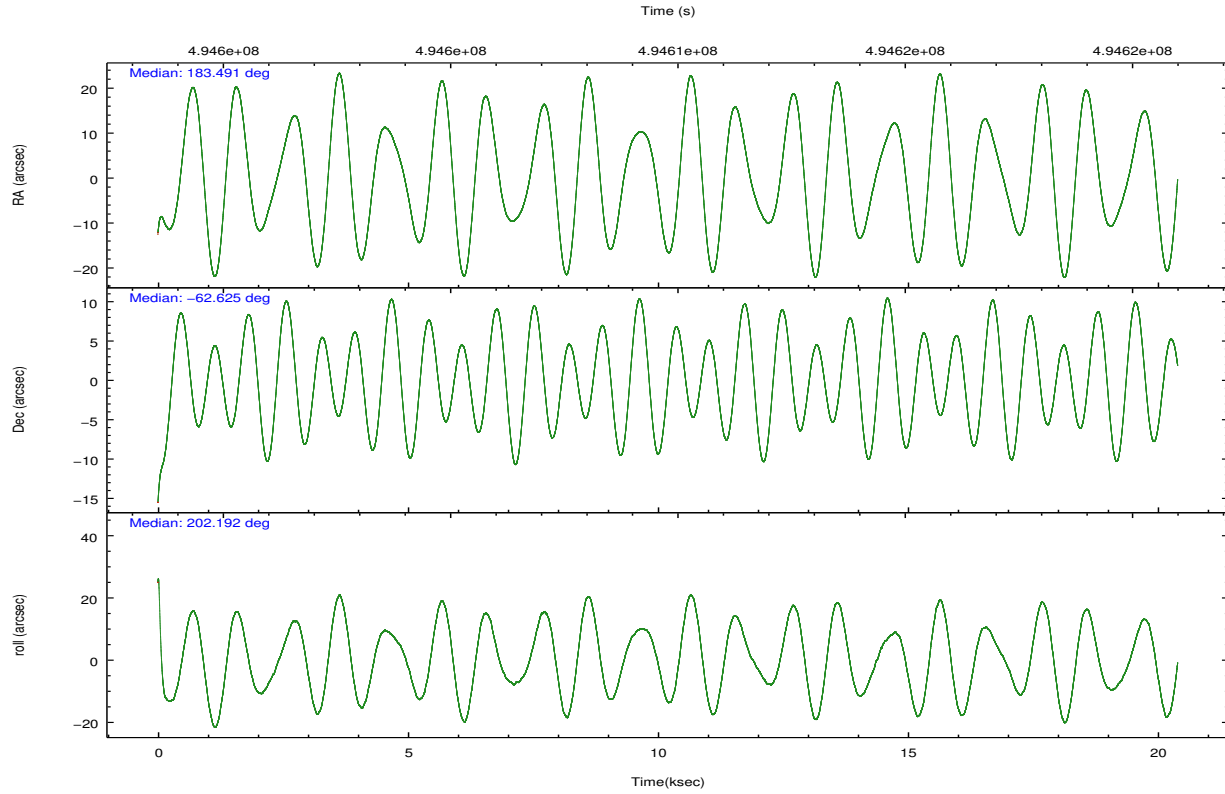
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	5757	5046	4950	6537	4828
	6%	5%	5%	7%	3%
grade 1 events	50	46	51	56	137
	0%	0%	0%	0%	0%
grade 2 events	2910	3098	2748	2469	11506
	3%	3%	2%	2%	9%
grade 3 events	1251	1200	1102	1115	4793
	1%	1%	1%	1%	3%
grade 4 events	1109	1194	1117	1123	4599
	1%	1%	1%	1%	3%
grade 5 events	4423	4623	3924	4957	12865
	5%	5%	4%	5%	10%
grade 6 events	2222	2597	1989	2166	29669
	2%	3%	2%	2%	23%
grade 7 events	66220	68252	76876	72493	57924
	78%	79%	82%	79%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	183.527866	183.4913692465815	CCD I2 on	Y	Y
[deg] Pointing Dec	-62.603153	-62.62495705978392	CCD I3 on	Y	Y
[deg] Pointing Roll	202.031945	202.2082436141632	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	494599969.184000	494598923.7413	CCD S5 on	N	N
Observation start date	2013-09-03T12:51:42	2013-09-03T12:35:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	494619969.184000	494620361.10497	On-chip summing requested	N	N
Observation end date	2013-09-03T18:25:02	2013-09-03T18:32:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





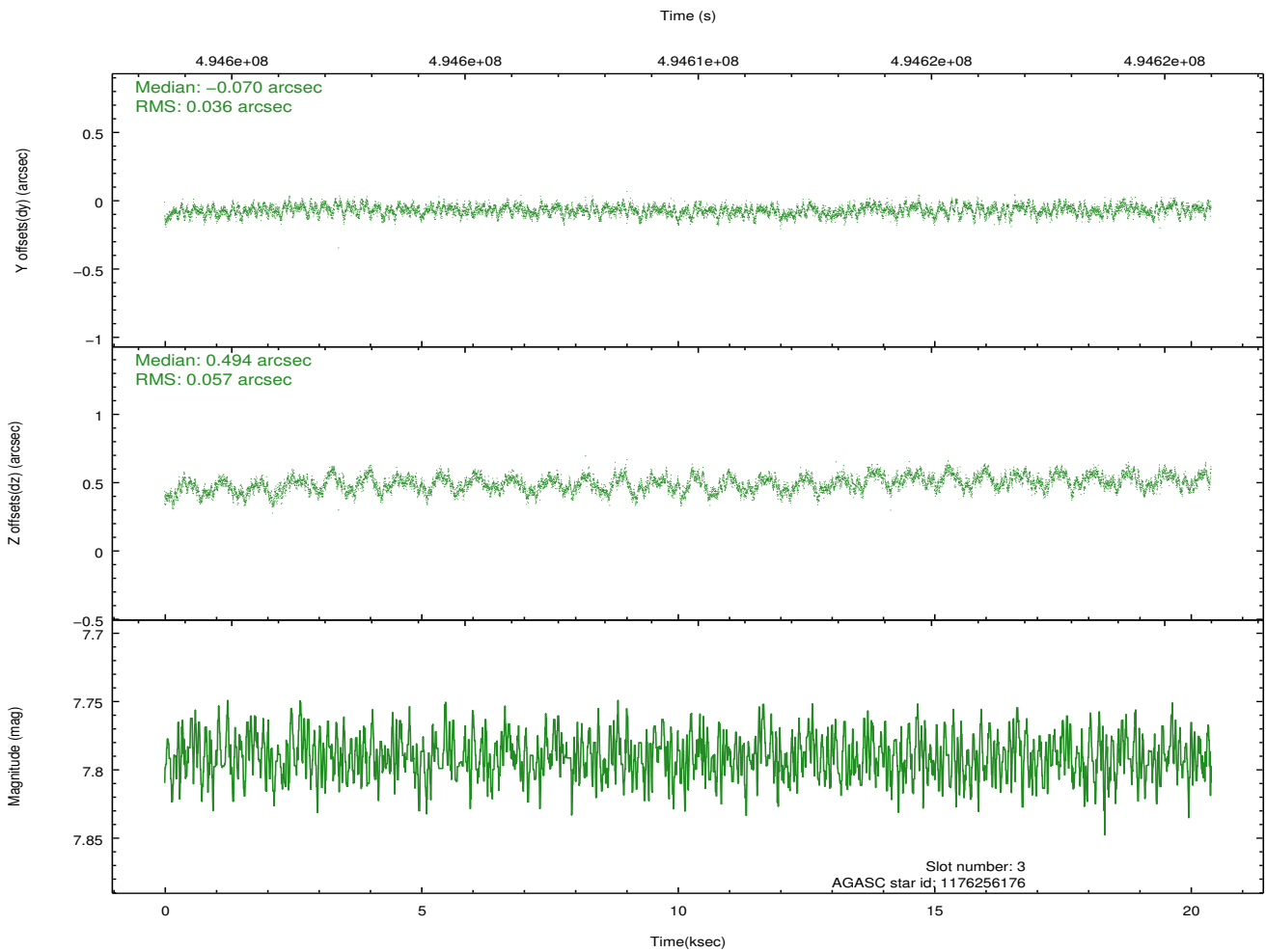
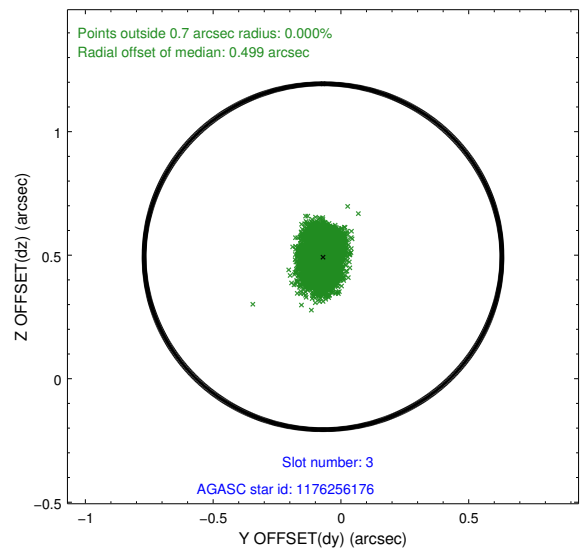
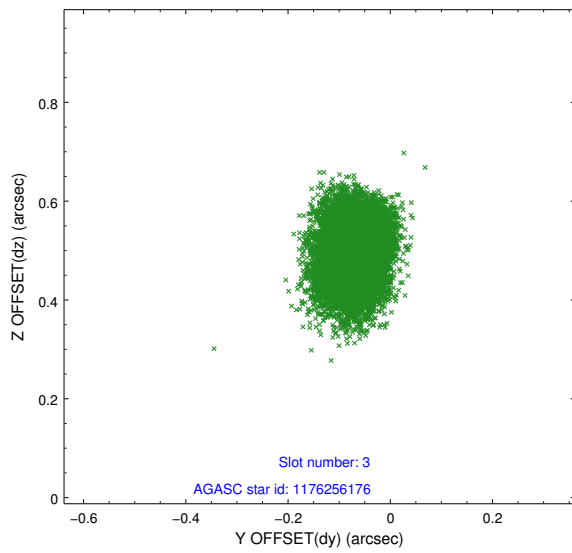
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.02	4976	-0.047	-0.003	0.015	0.036	0.000000	0.000000	917.31	-842.76
1	FID		ACIS-I-4	6.96	4975	0.268	0.049	0.016	0.040	0.000000	0.000000	2137.68	1057.06
2	FID		ACIS-I-5	7.01	4975	-0.316	0.025	0.020	0.030	0.000000	0.000000	-1830.81	1054.94
3	GUIDE	used	1176256176	7.79	9949	-0.070	0.494	0.072	0.116	183.737977	-61.869724	-1320.37	-2312.99
4	GUIDE	used	1176777960	7.68	9945	-0.033	-0.155	0.081	0.128	182.999354	-63.380794	1841.33	2278.96
5	GUIDE	used	1176811504	7.28	9949	-0.058	-0.048	0.065	0.109	183.821836	-62.887748	-62.59	1131.96
6	GUIDE	used	1176768808	8.56	9940	0.288	-0.108	0.089	0.142	182.961838	-62.013533	92.58	-2322.28
7	GUIDE	used	1176808824	7.12	9950	-0.123	-0.187	0.072	0.117	184.159290	-63.197902	-144.11	2372.71

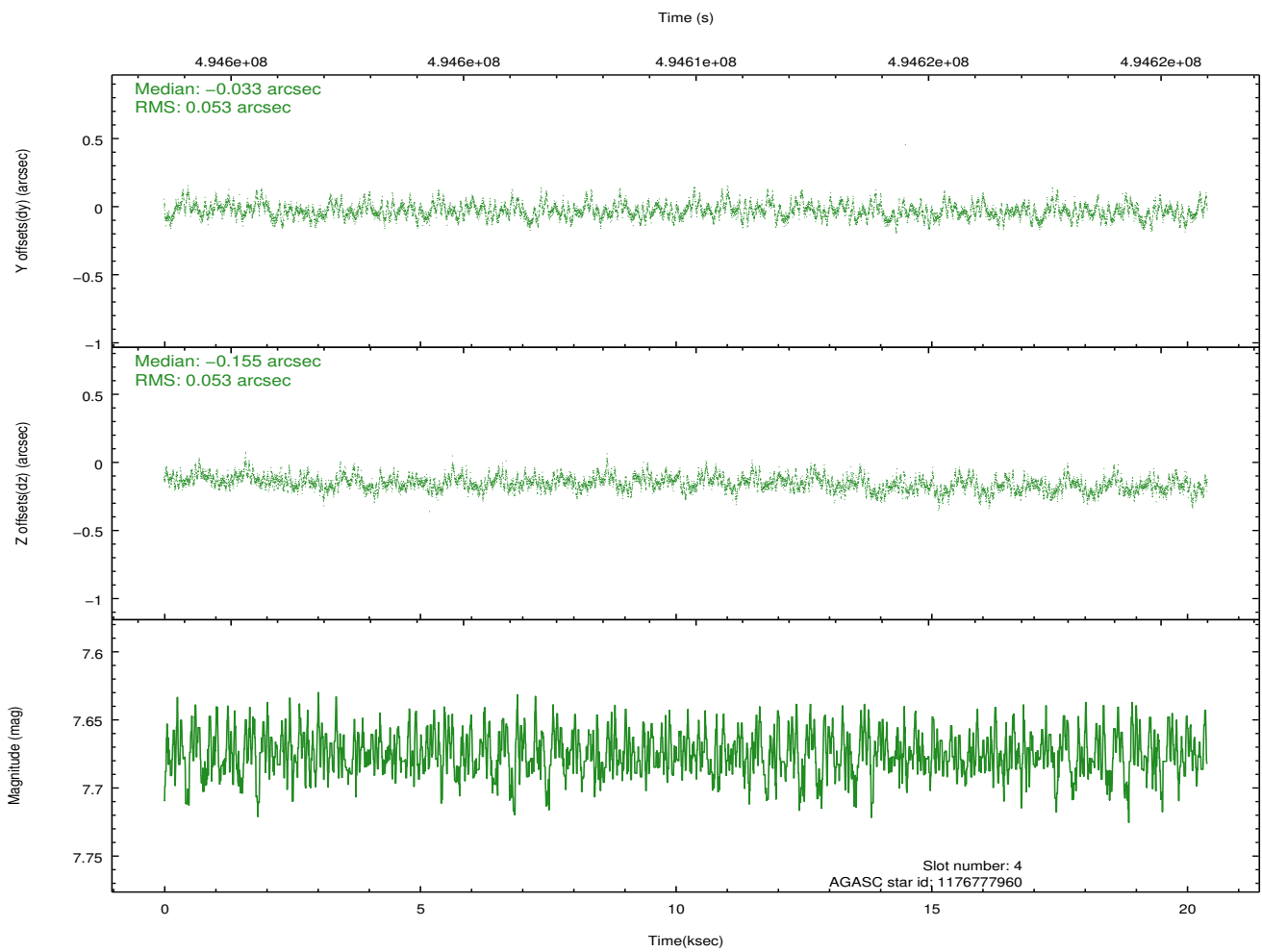
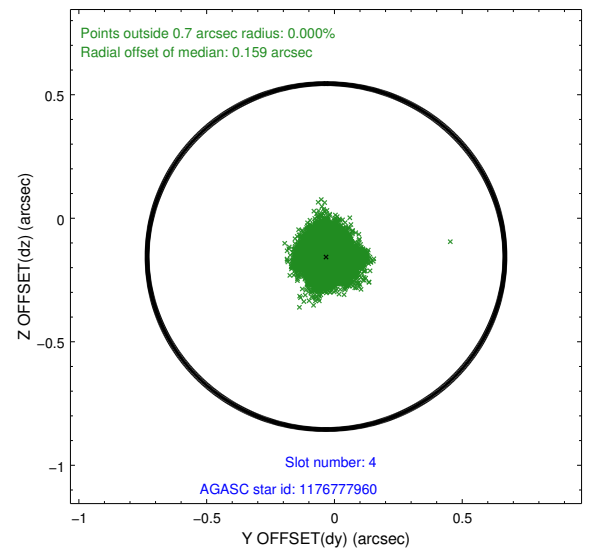
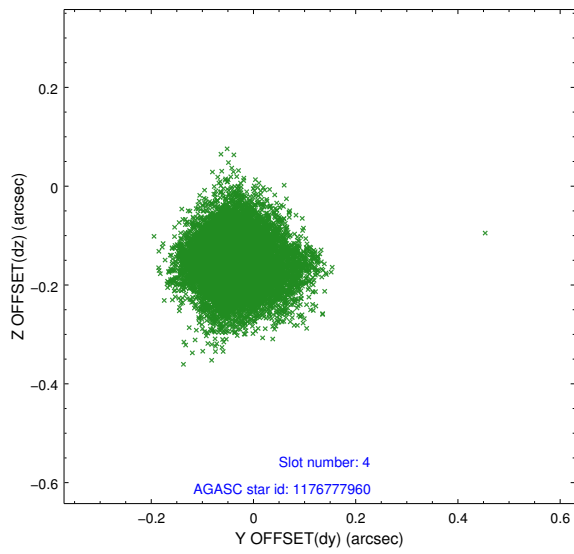
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2.4 Star Slots

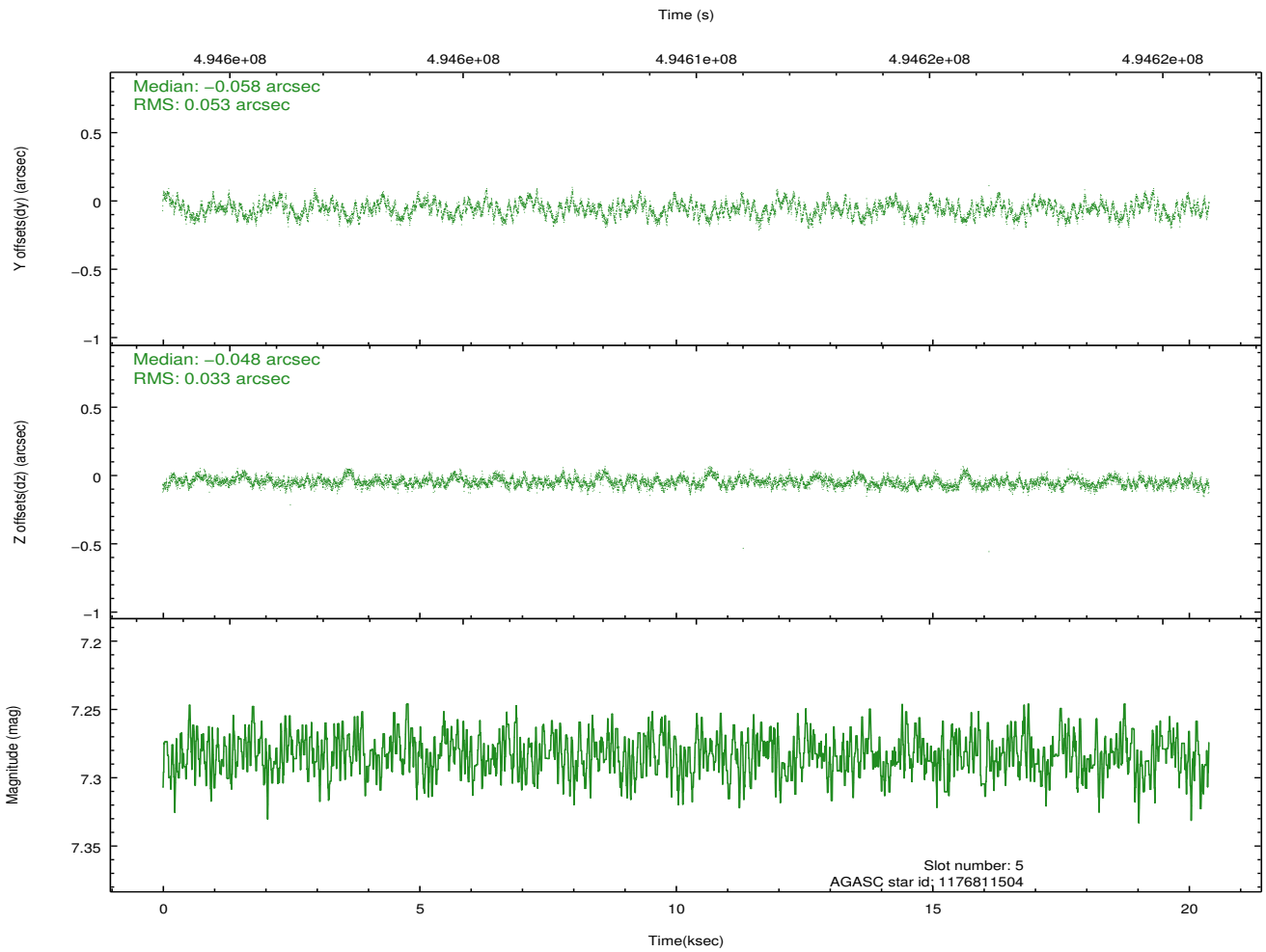
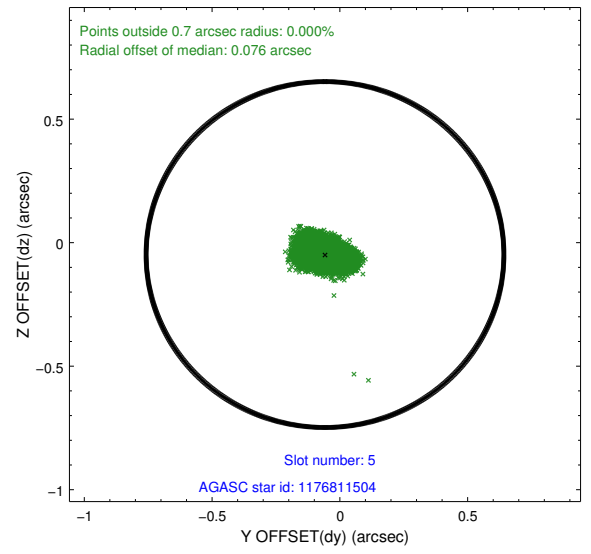
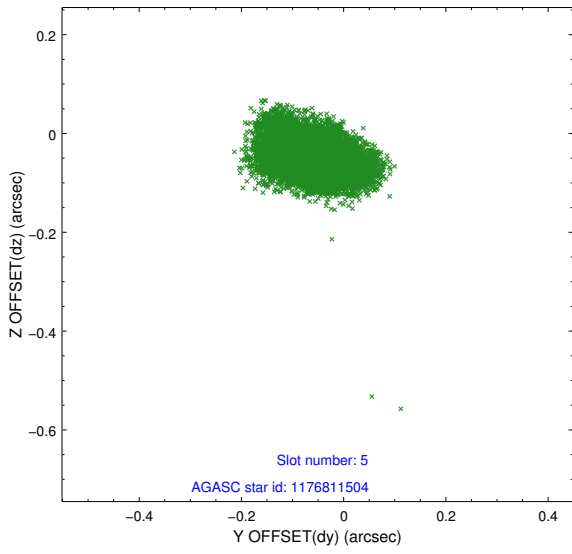
2.4.1 Slot 3



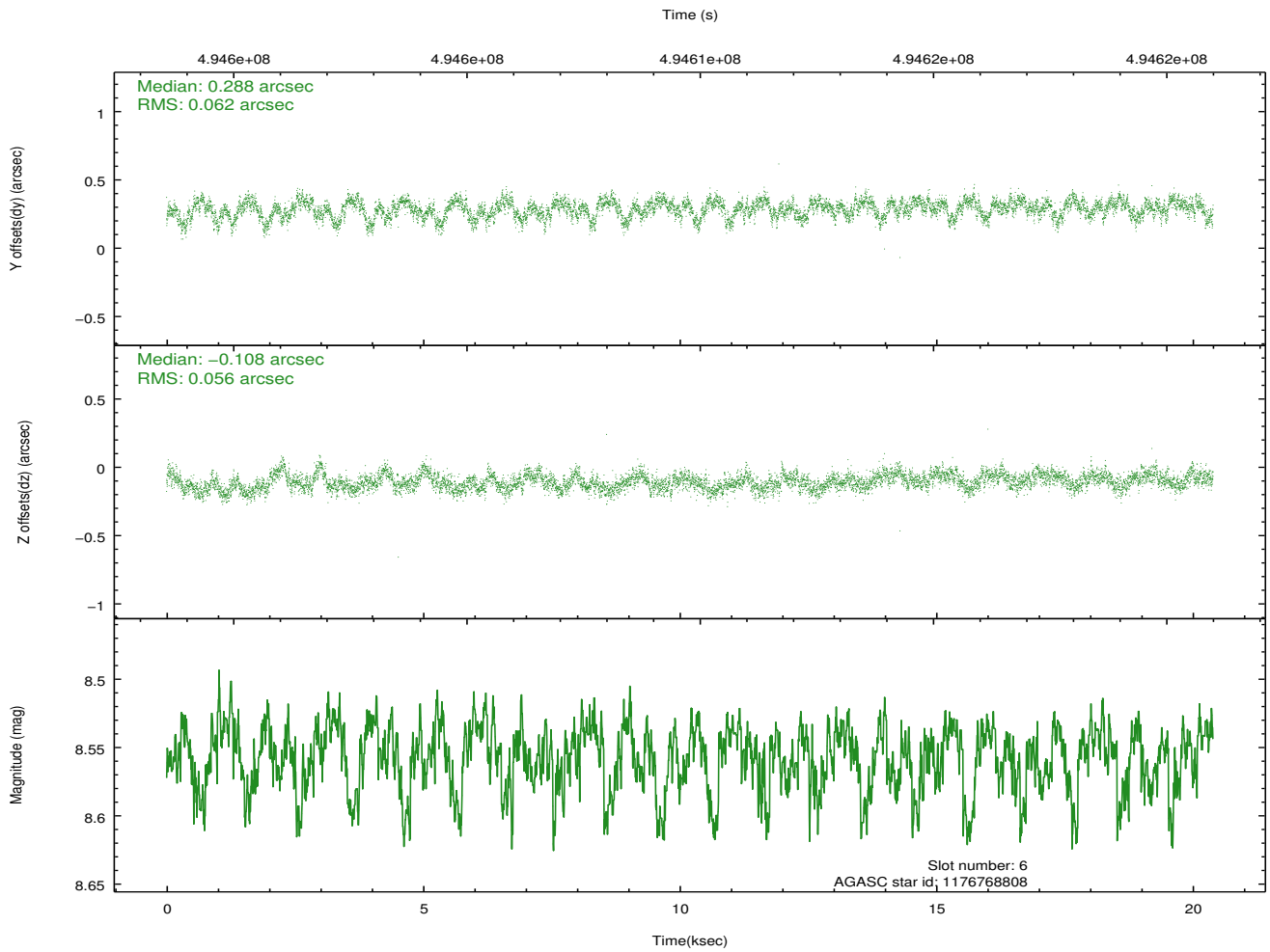
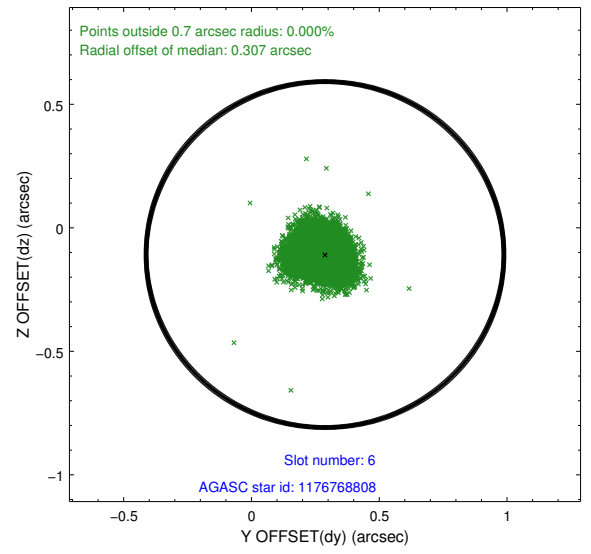
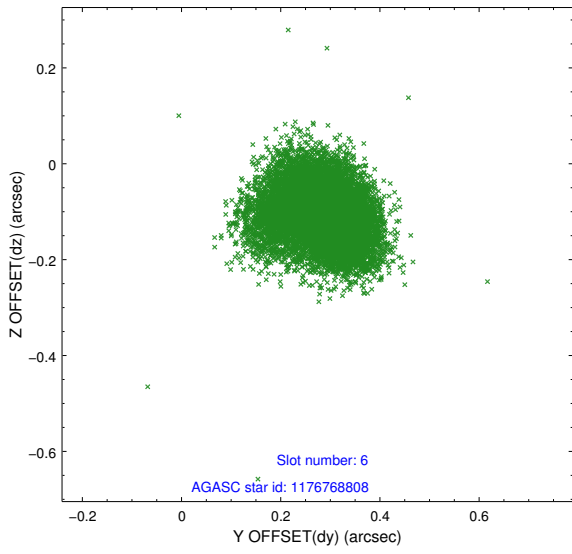
2.4.2 Slot 4



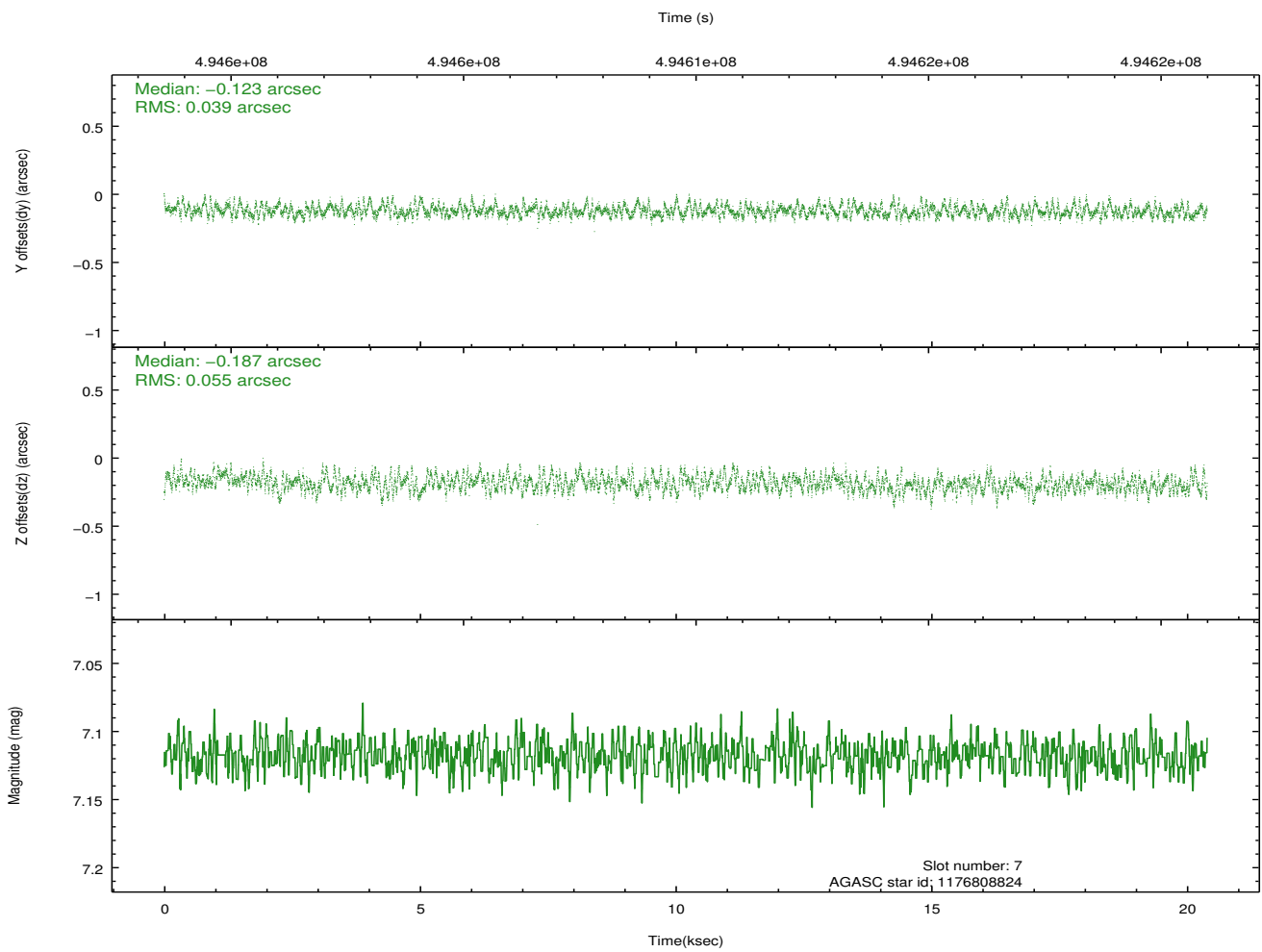
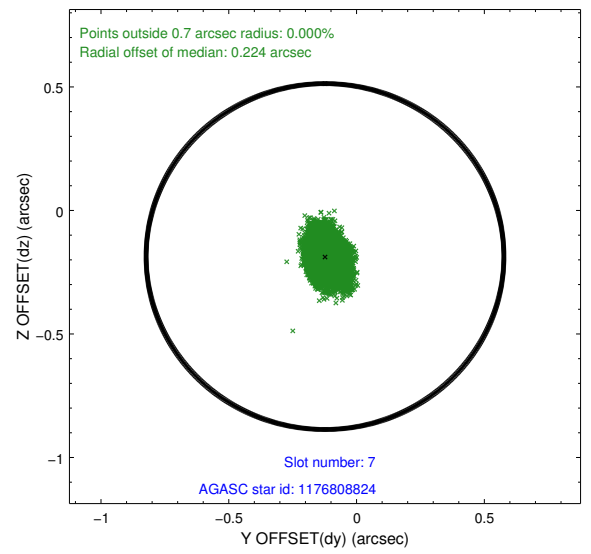
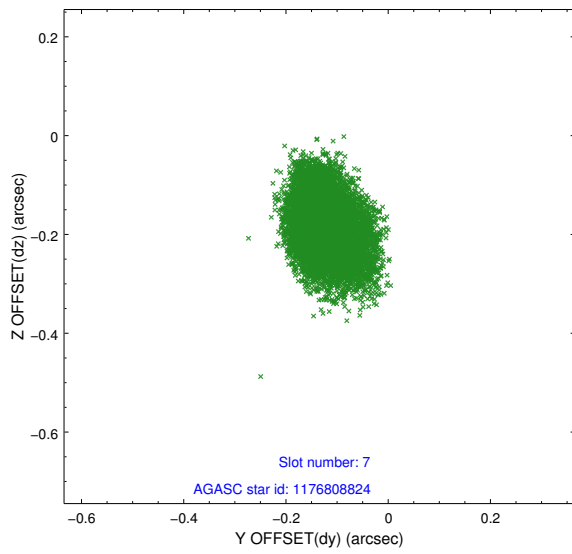
2.4.3 Slot 5



2.4.4 Slot 6

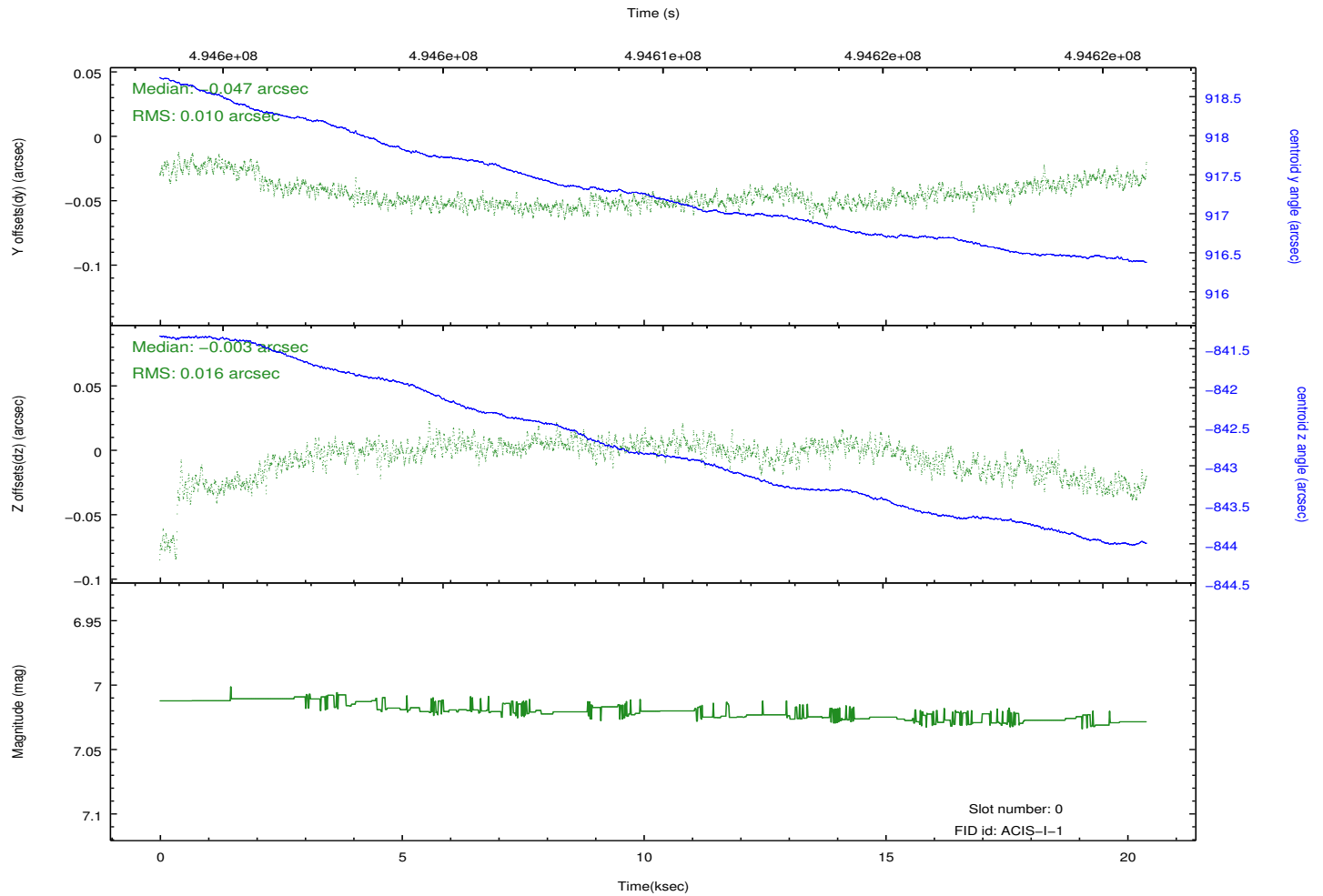
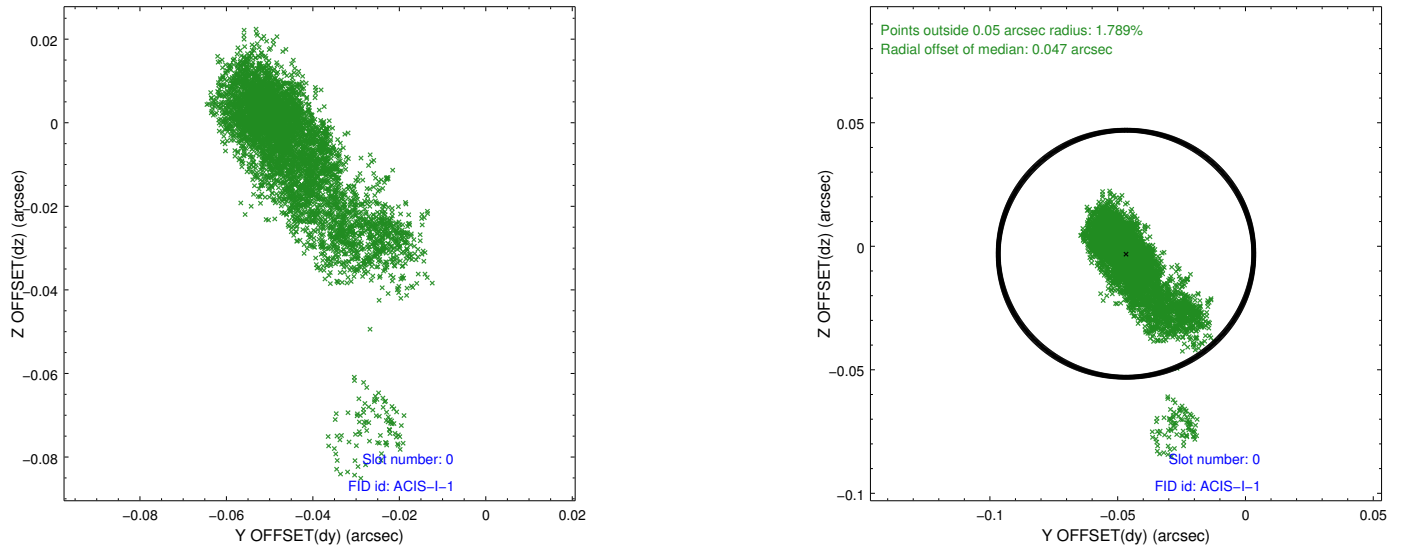


2.4.5 Slot 7

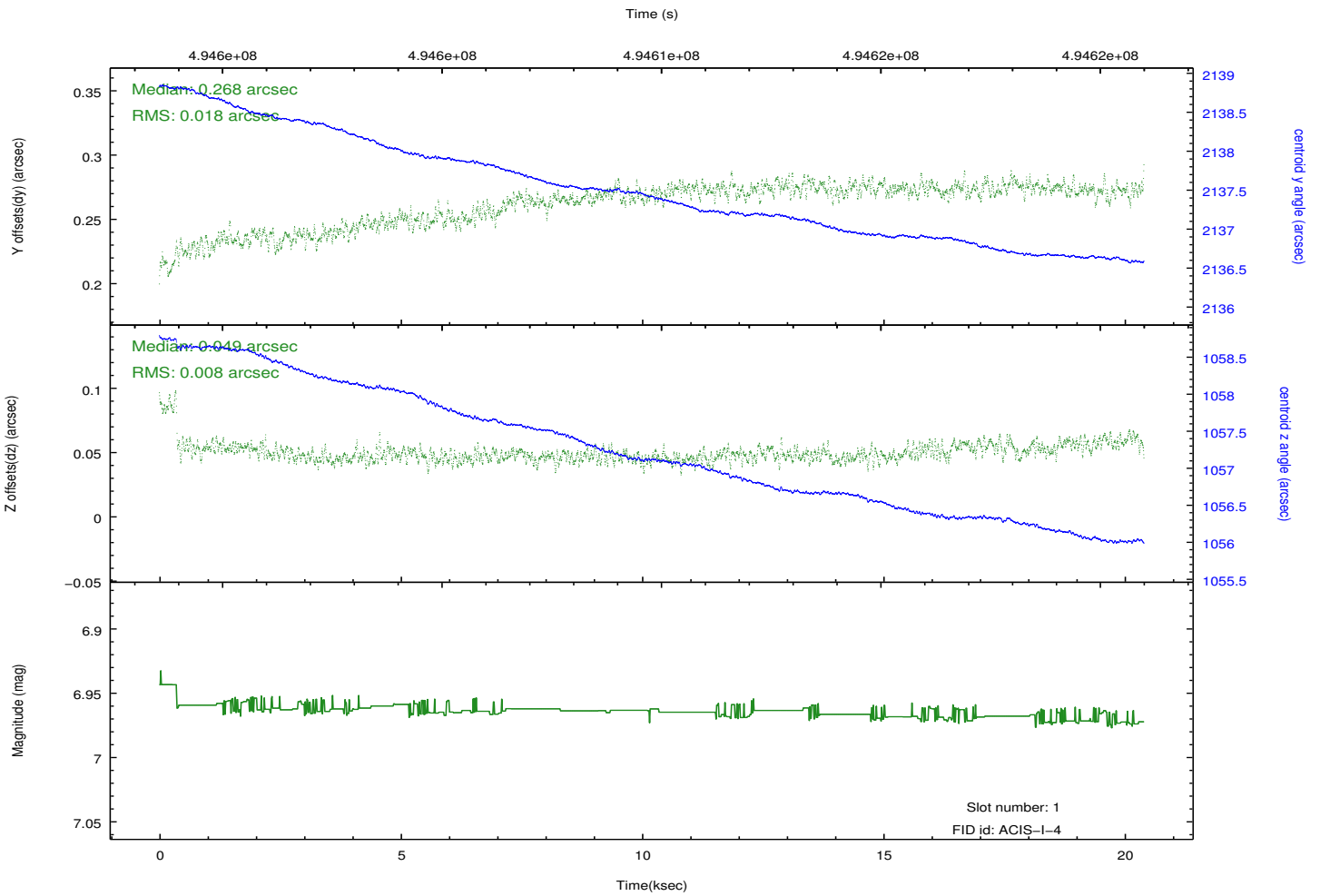
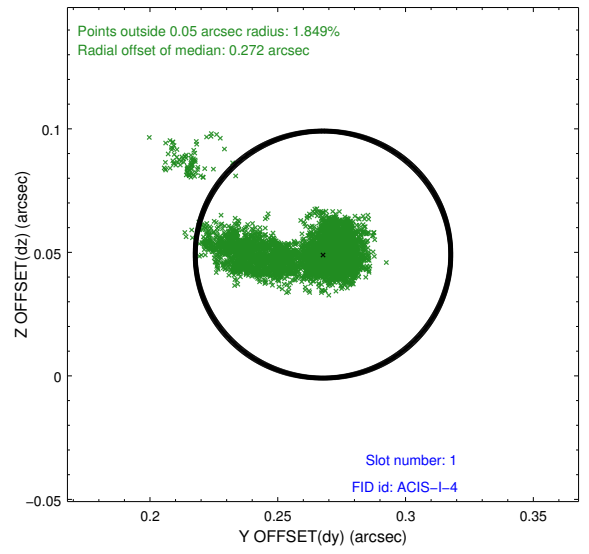
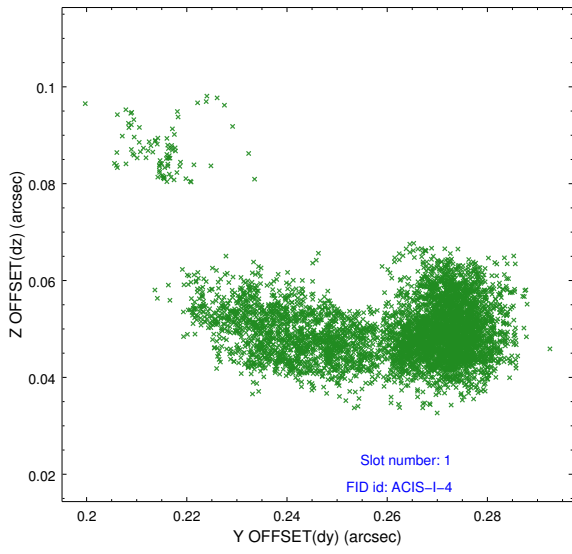


2.5 FID Slots

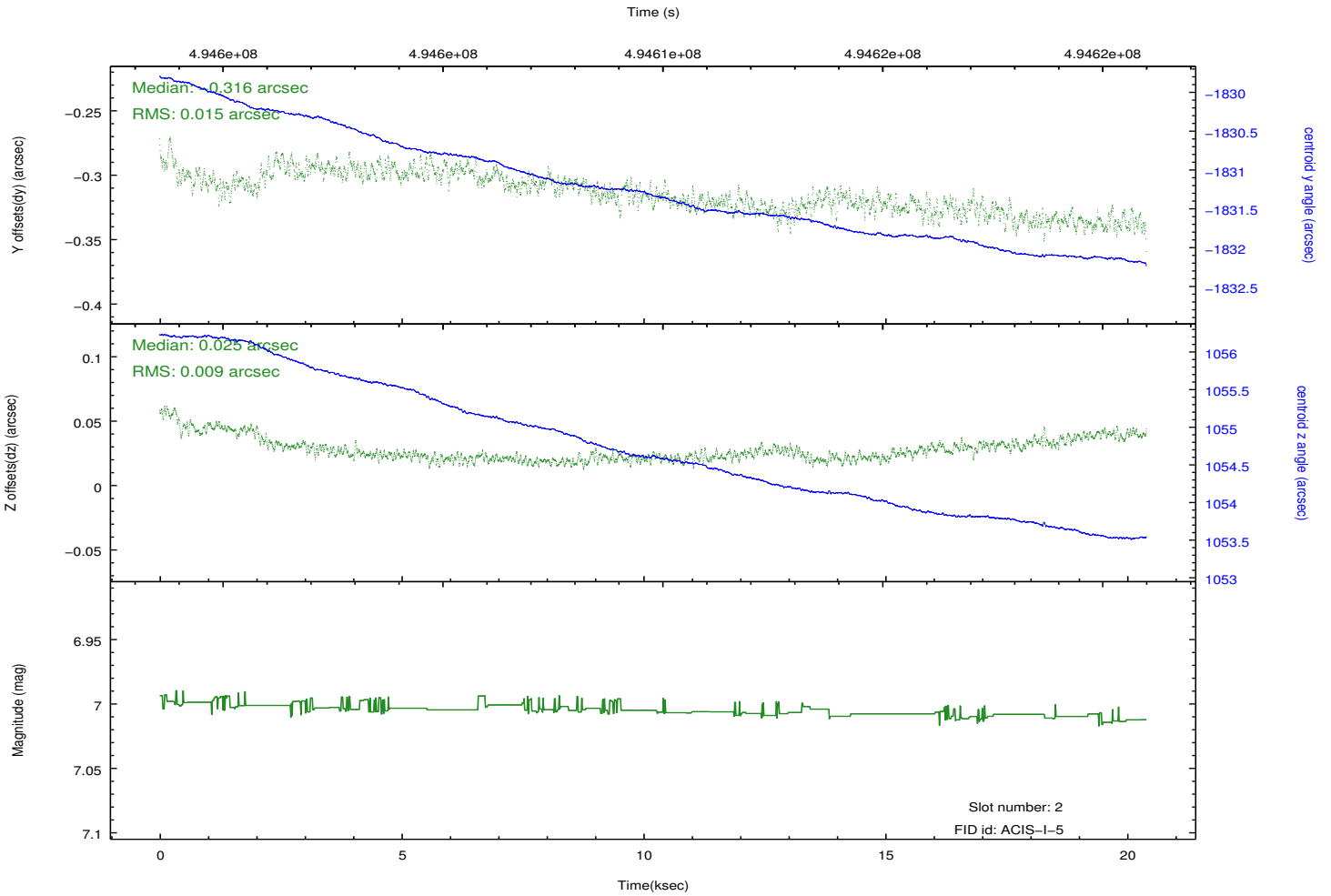
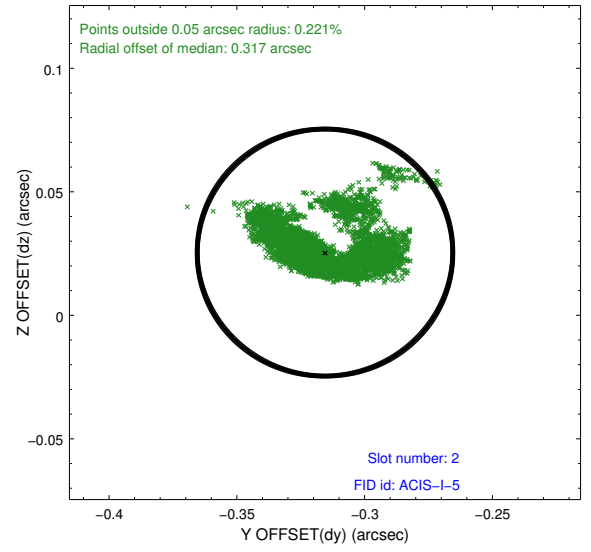
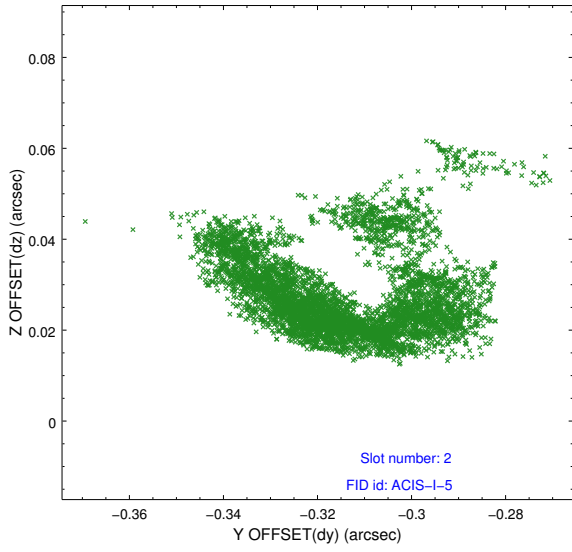
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069359164178

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.