

V&V Reference Report

L2 ASCDS Version : 10

Observation 14814 - L2 Version 2
Chandra X-Ray Center

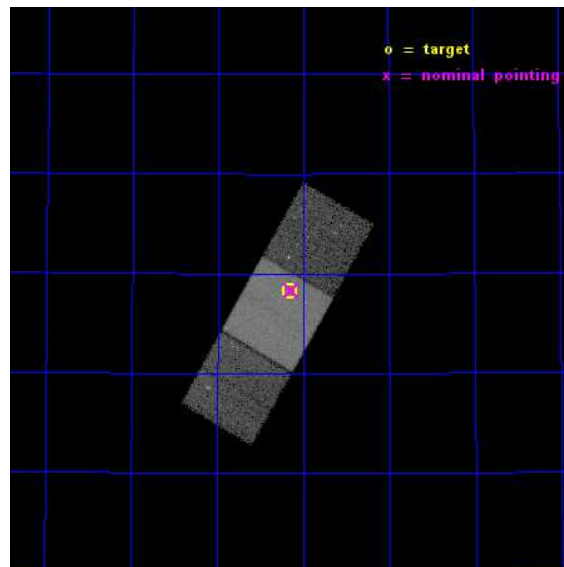
L2 Processing Date : Dec 6 2014

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

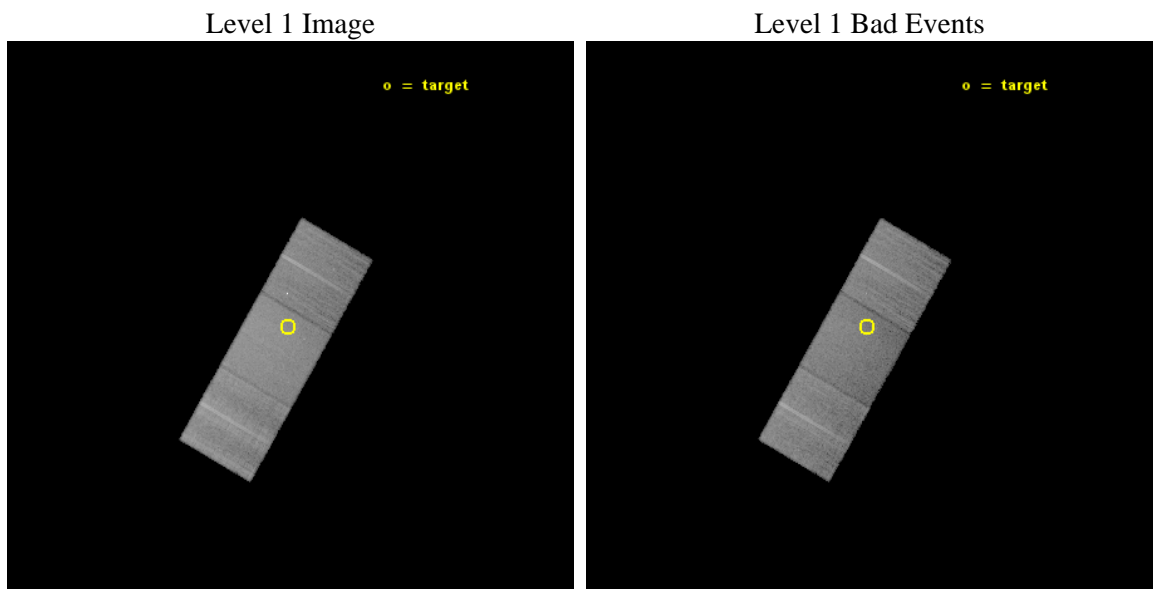
seq_num	501942	Sequence number
obs_id	14814	Observation id
title	Search for X-ray counterparts of potential radio-quiet gamma-ray MSPs in Fermi LAT sources, using Chandra	Proposal title
observer	Dr Pablo Saz Parkinson	Principal investigator
object	2FGL J0212.1+5318	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	33.039583	Observer's specified target RA [deg]
dec_targ	53.305306	Observer's specified target Dec [deg]
ra_nom	33.034524418269	Nominal RA [deg]
dec_nom	53.305467167096	Nominal Dec [deg]
roll_nom	119.88096272043	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30116.260284185	Sum of GTIs [s]
livetime	29722.769172304	Livetime [s]
ontime6	30113.078273833	Sum of GTIs [s]
ontime7	30116.260284185	Sum of GTIs [s]
ontime8	30116.178204179	Sum of GTIs [s]
l2events	122638	Number of level 2 events



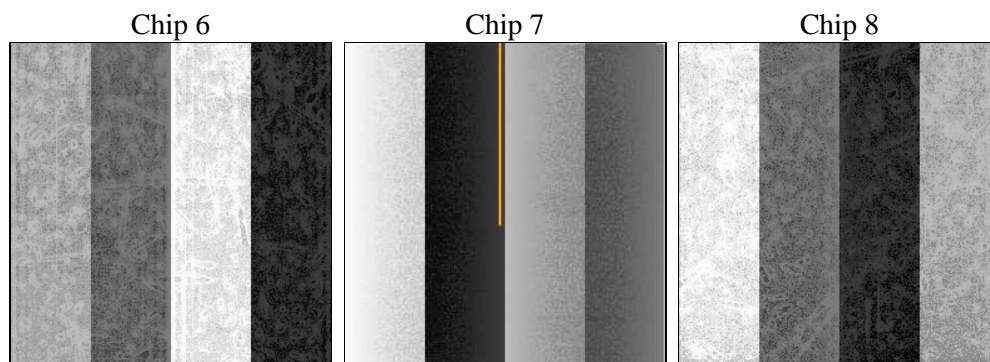
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30116.260284185	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	30113.078273833	Sum of GTIs [s]
date	2014-12-06T05:44:21	Date and time of file creation	ontime7	30116.260284185	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	30116.178204179	Sum of GTIs [s]
			l1events	543504	Number of level 1 events

2.1.4 Events

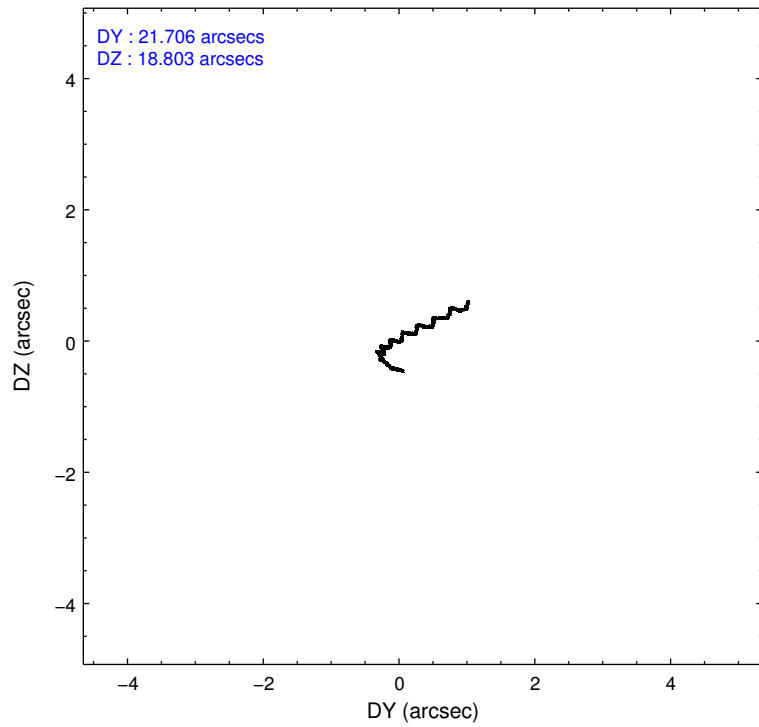
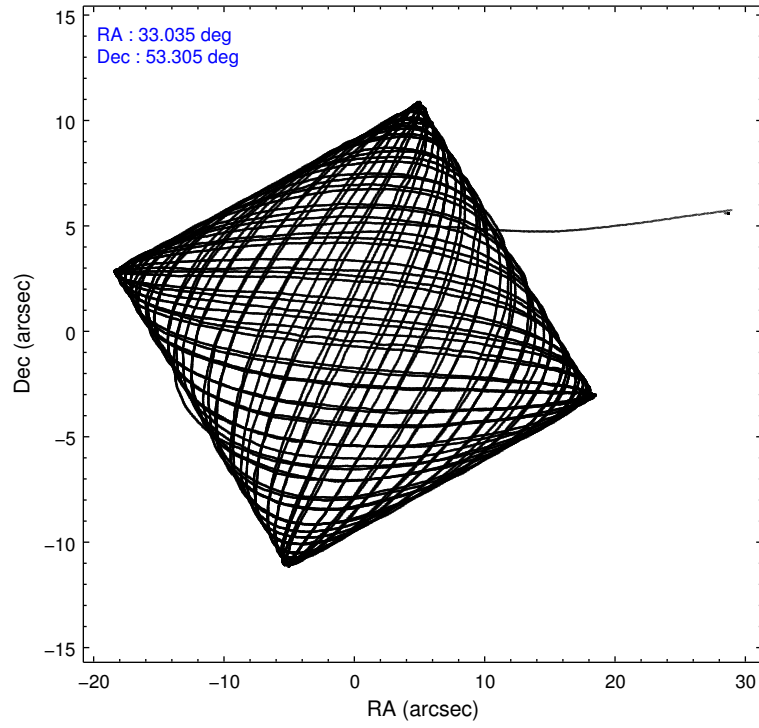
	ccd 6	ccd 7	ccd 8
level 1 events	147865	196512	199127
rejected events	126762	110199	143491
rejected %	85%	56%	72%

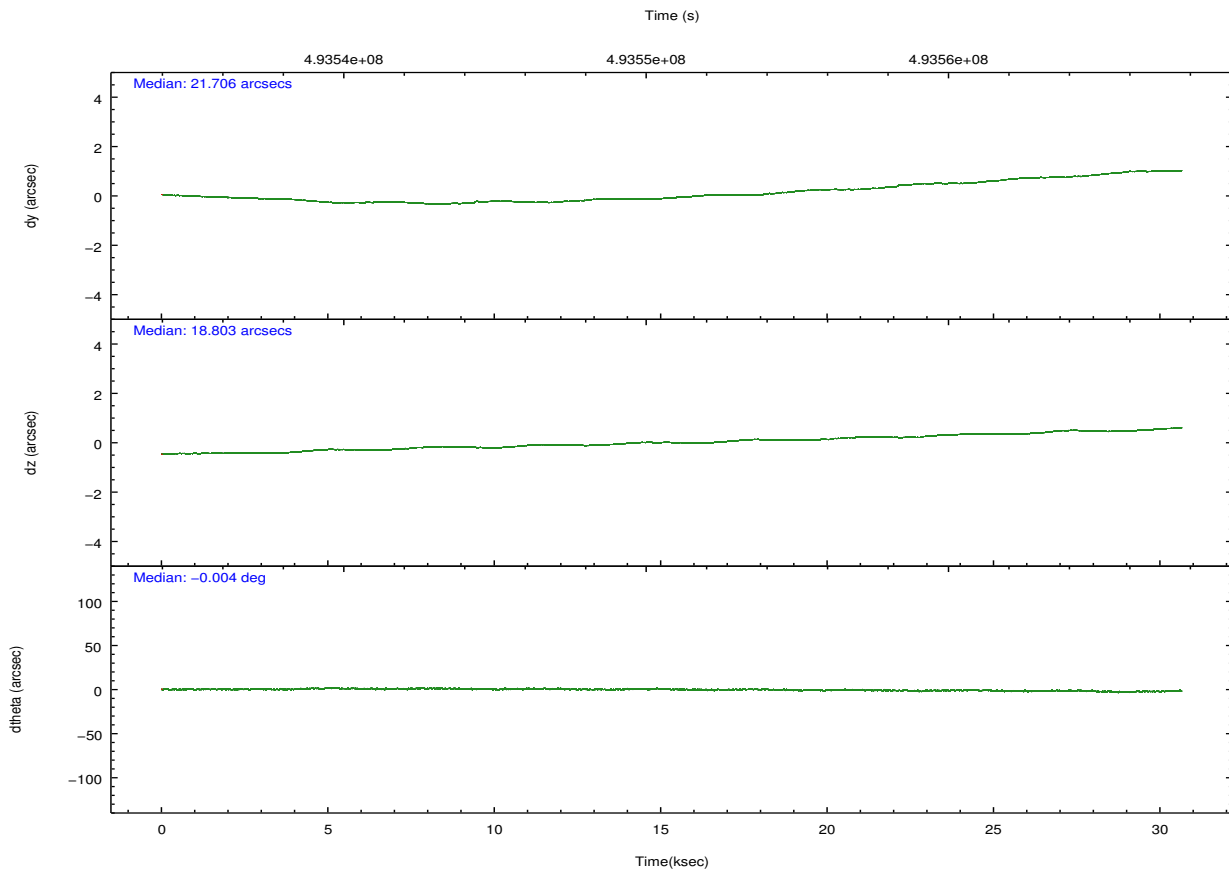
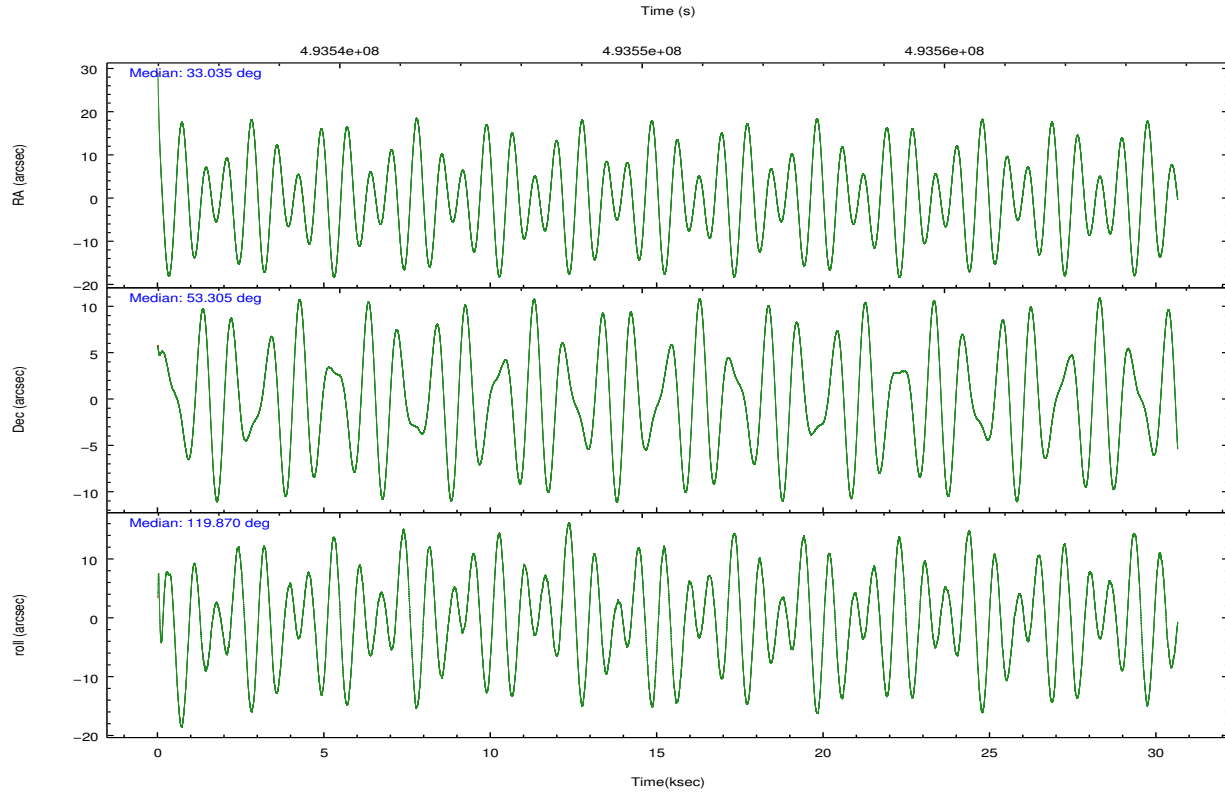
	ccd 6	ccd 7	ccd 8
grade 0 events	8594	7637	16472
	5%	3%	8%
grade 1 events	126	248	154
	0%	0%	0%
grade 2 events	4456	17612	12731
	3%	8%	6%
grade 3 events	1967	7463	6100
	1%	3%	3%
grade 4 events	1901	7423	5707
	1%	3%	2%
grade 5 events	7771	20300	10949
	5%	10%	5%
grade 6 events	4193	46199	14643
	2%	23%	7%
grade 7 events	118857	89630	132371
	80%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	33.074394	33.03452441826863	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.292044	53.30546716709607	Alternating exposures requested	N	N
[deg] Pointing Roll	119.692364	119.8809627204253	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	493536175.184000	493534680.02074			
Observation start date	2013-08-22T05:21:48	2013-08-22T04:58:00			
[s] Observation end time (MET)	493566175.184000	493566870.1475			
Observation end date	2013-08-22T13:41:48	2013-08-22T13:54:30			
Read mode	TIMED	TIMED			

2.3 Aspect





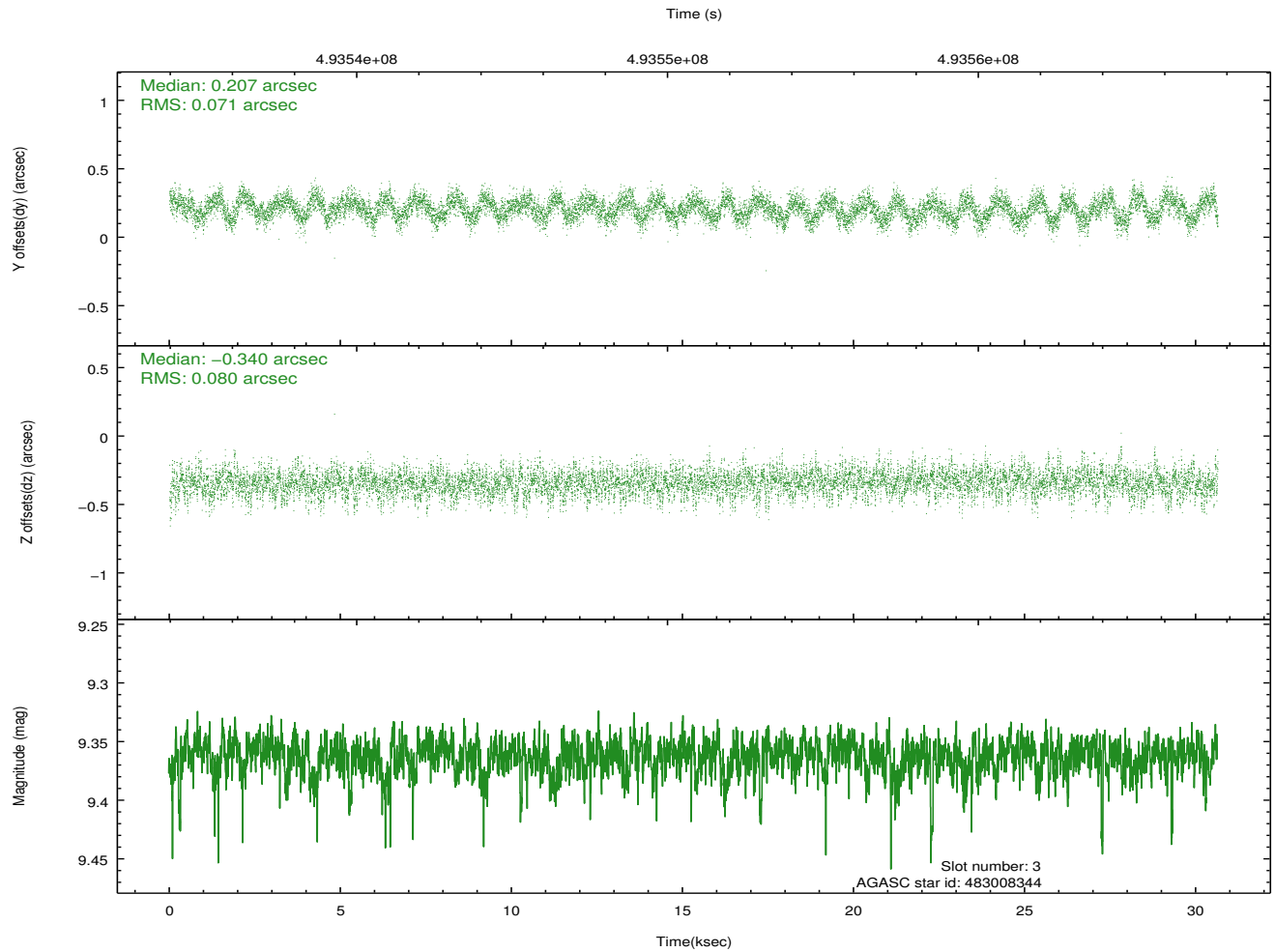
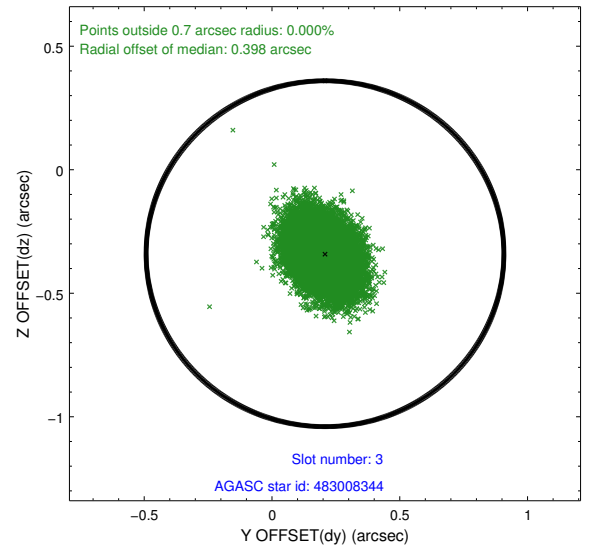
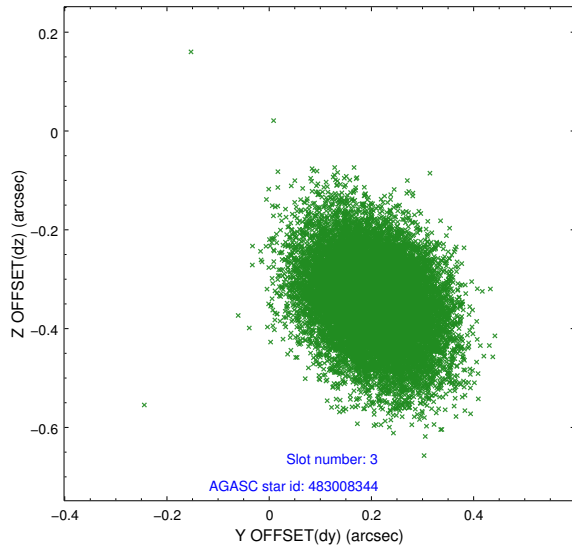
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	7474	-0.117	-0.058	0.009	0.019	0.000000	0.000000	-775.13	-1740.36
1	FID		ACIS-S-4	7.05	7474	0.263	0.072	0.015	0.041	0.000000	0.000000	2138.51	168.17
2	FID		ACIS-S-5	7.08	7474	-0.180	-0.005	0.014	0.036	0.000000	0.000000	-1827.95	161.85
3	GUIDE	used	483008344	9.36	14924	0.207	-0.340	0.114	0.187	32.515451	52.776531	-1005.04	1973.96
4	GUIDE	used	483014136	7.56	14944	-0.009	-0.207	0.075	0.114	32.355571	53.242657	619.31	1429.65
5	GUIDE	used	483015904	9.14	14901	-0.257	-0.138	0.107	0.176	32.663348	53.882852	2282.00	-296.52
6	GUIDE	used	483142464	8.30	14941	-0.003	0.351	0.076	0.124	33.568985	53.840726	1199.09	-1892.47
7	GUIDE	used	483144000	8.28	14940	0.060	0.328	0.072	0.116	33.804129	53.577984	129.34	-1868.39

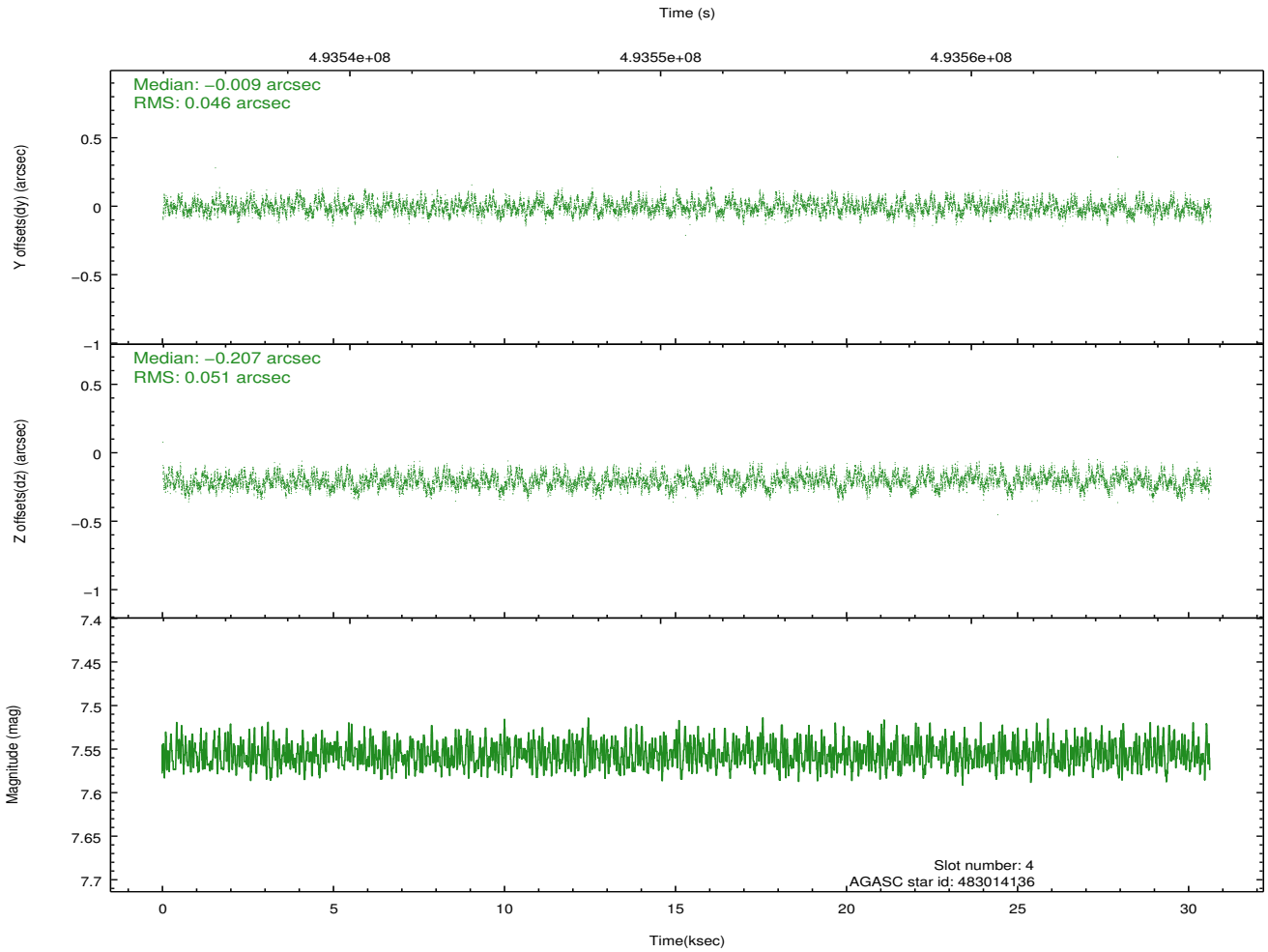
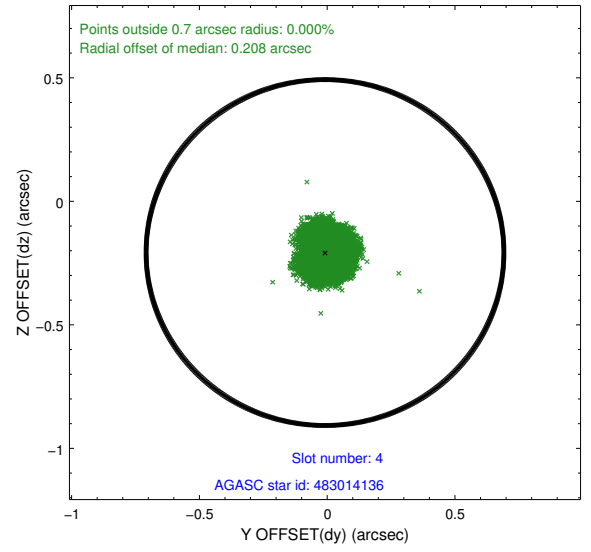
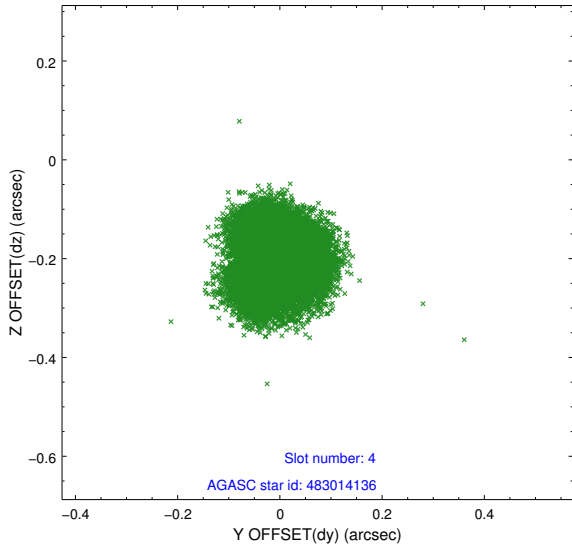
∞

2.4 Star Slots

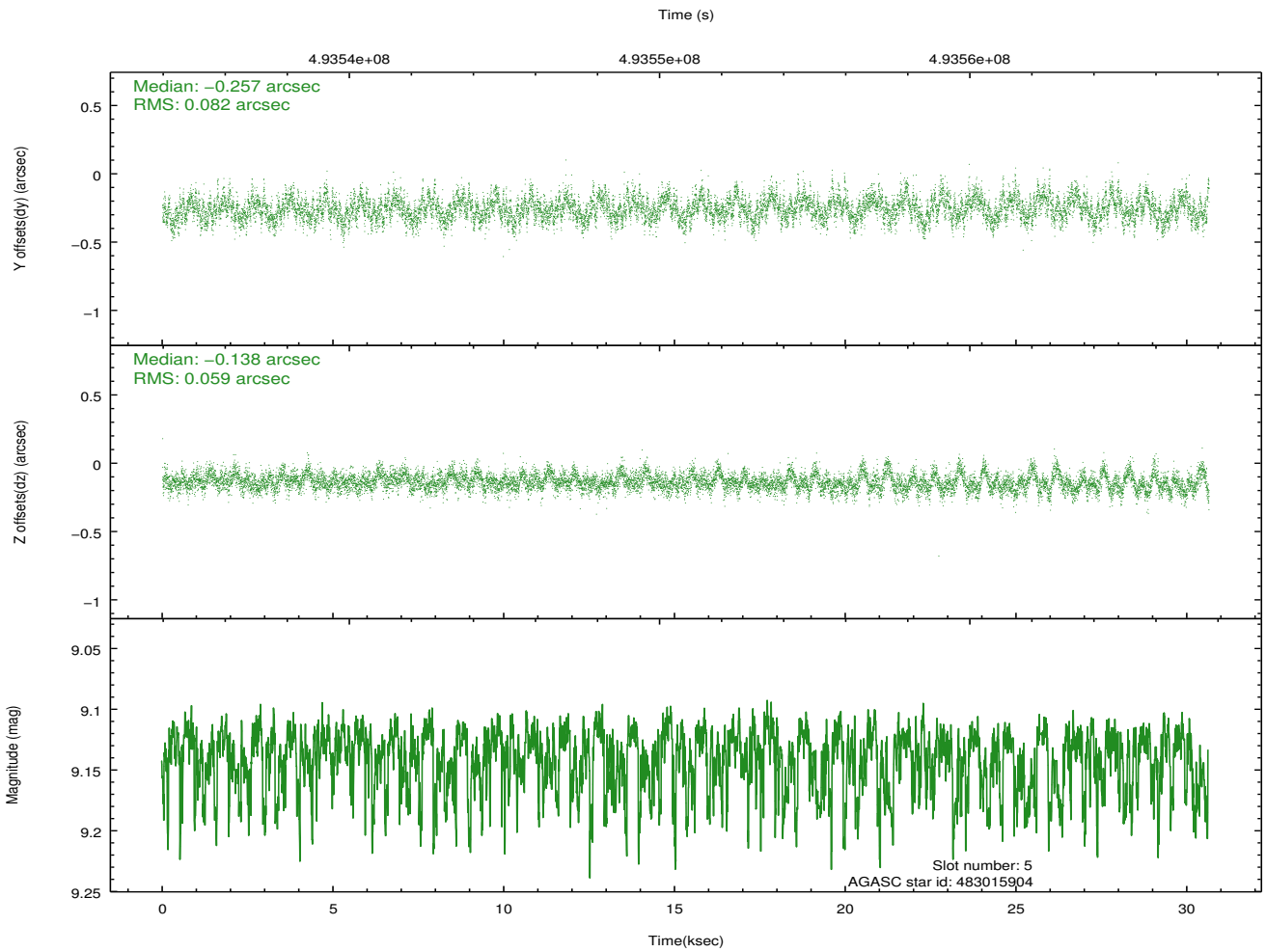
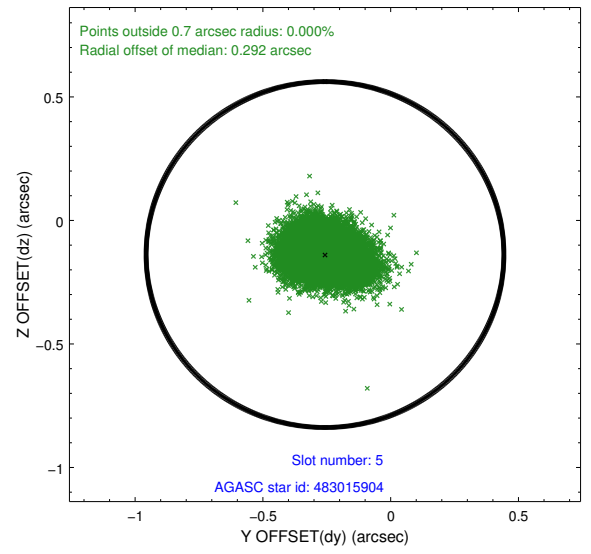
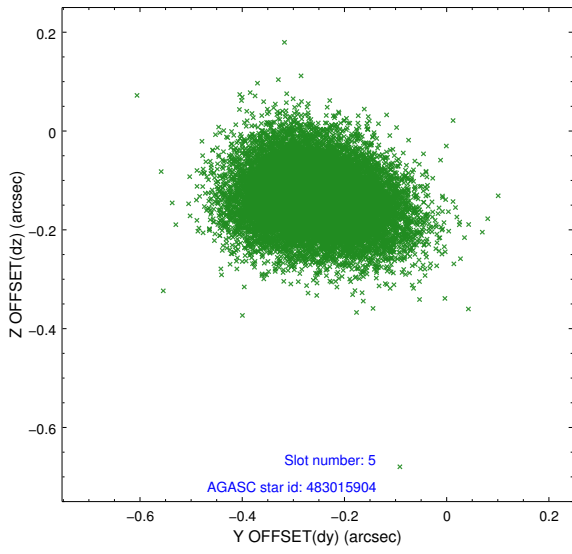
2.4.1 Slot 3



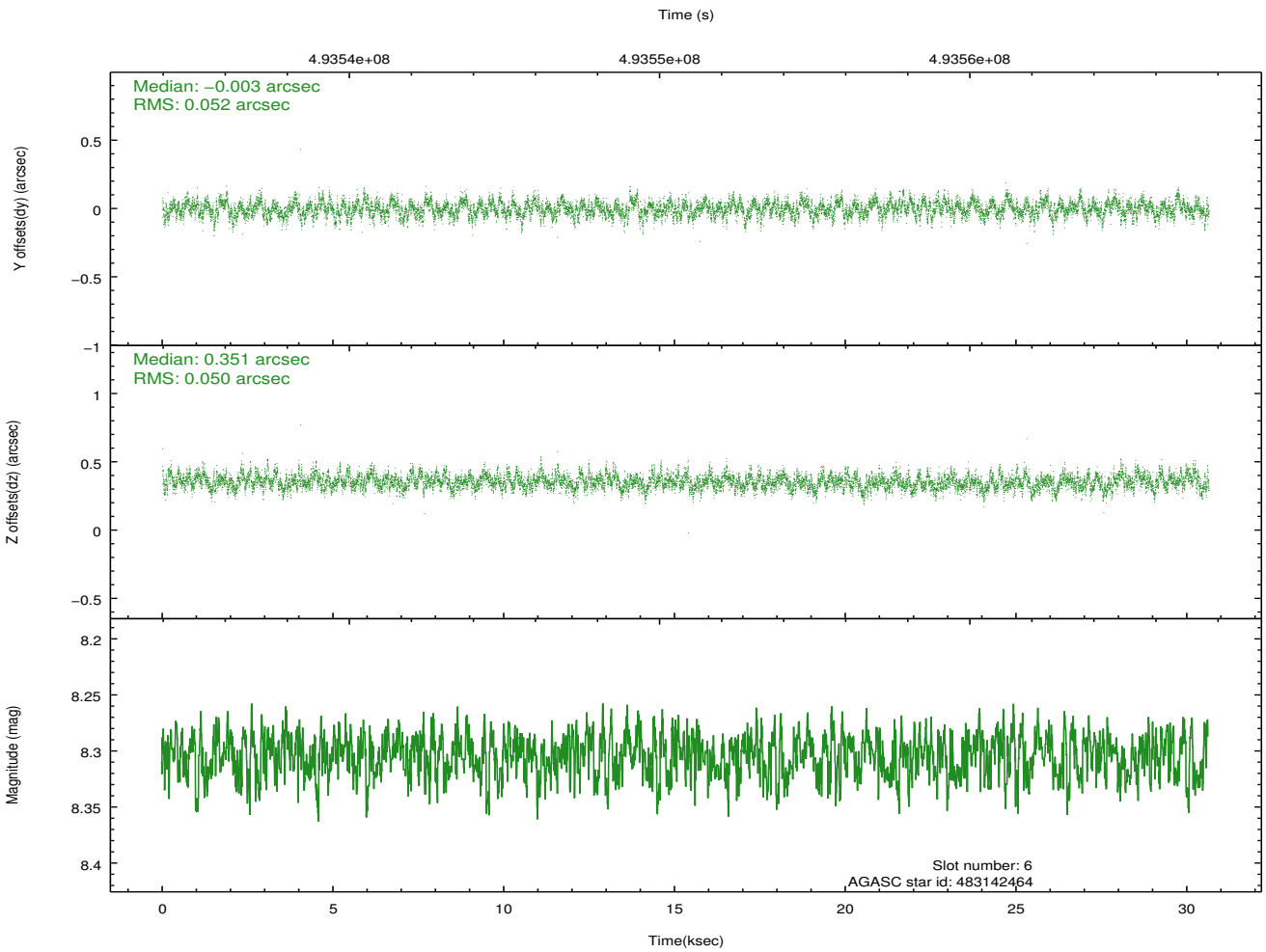
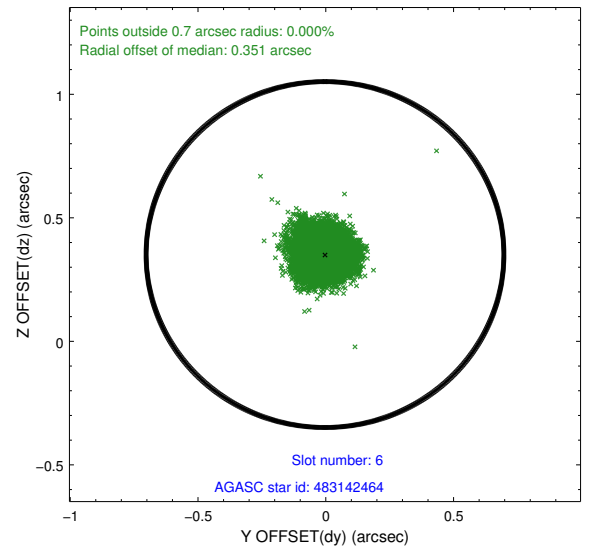
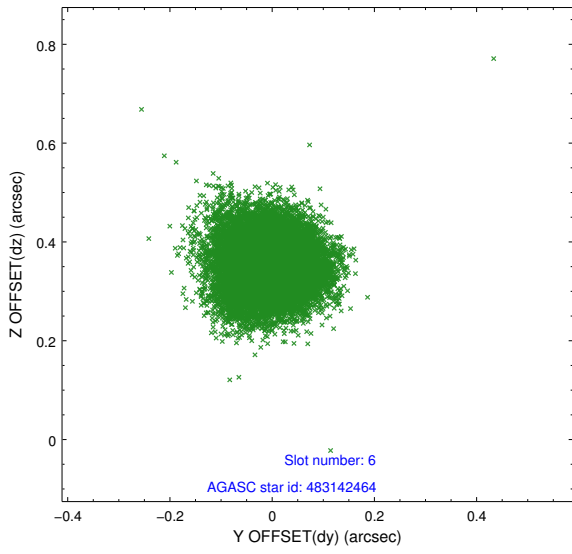
2.4.2 Slot 4



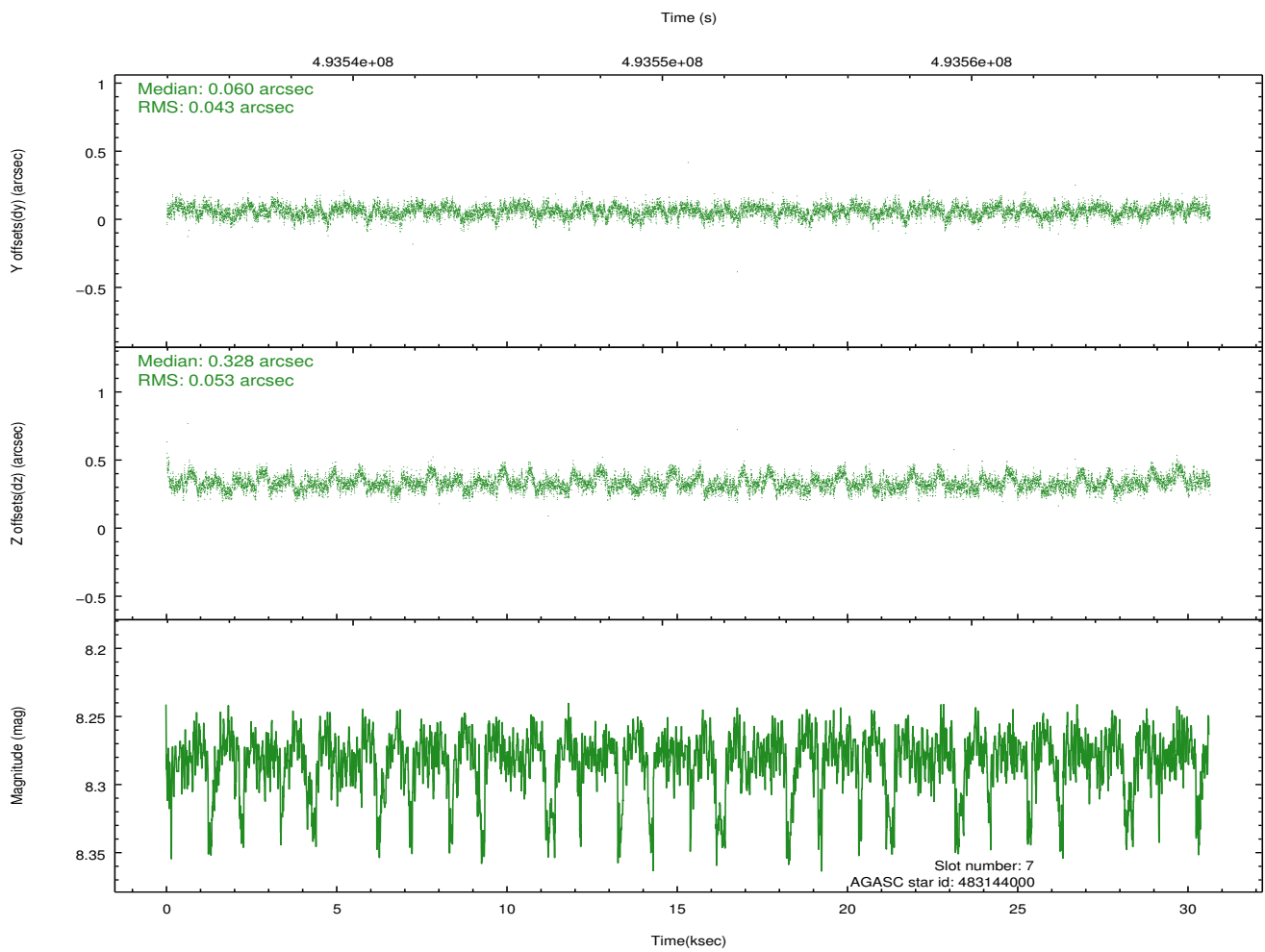
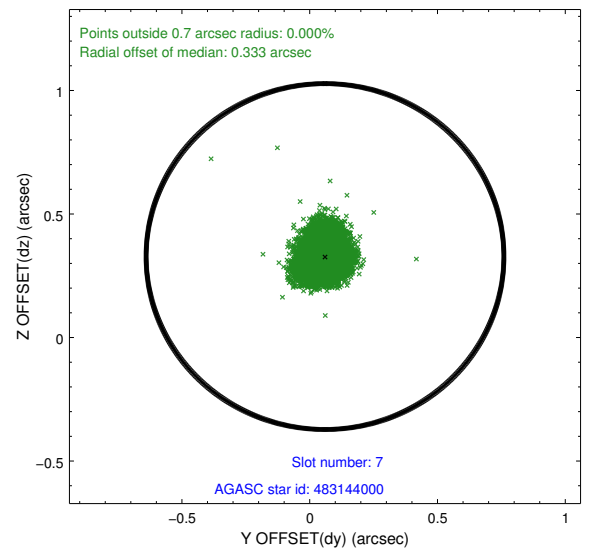
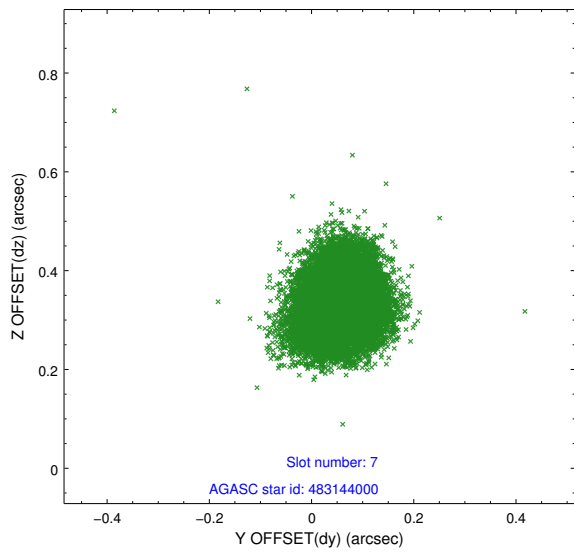
2.4.3 Slot 5



2.4.4 Slot 6

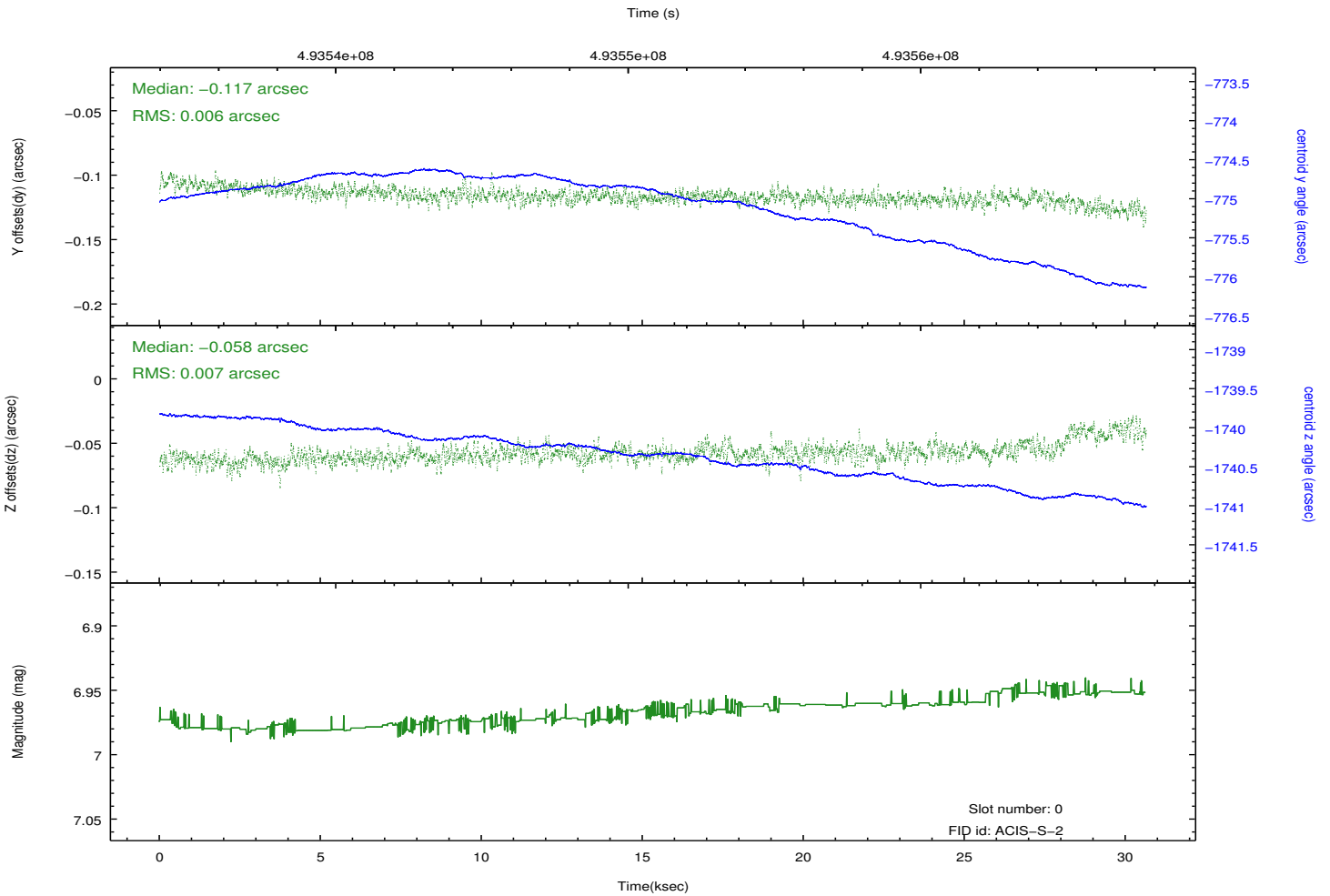
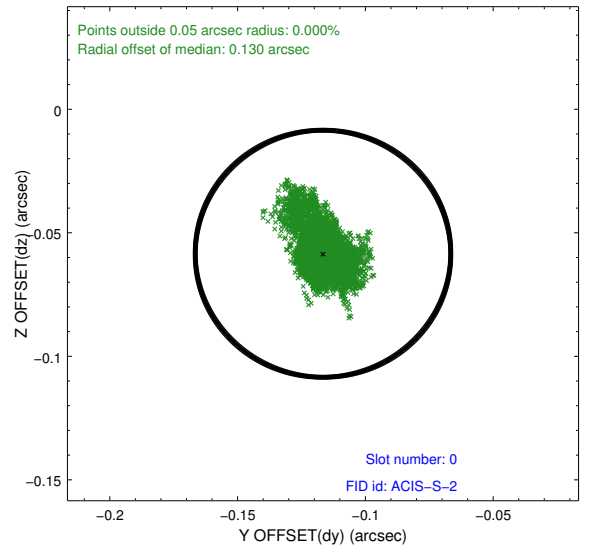
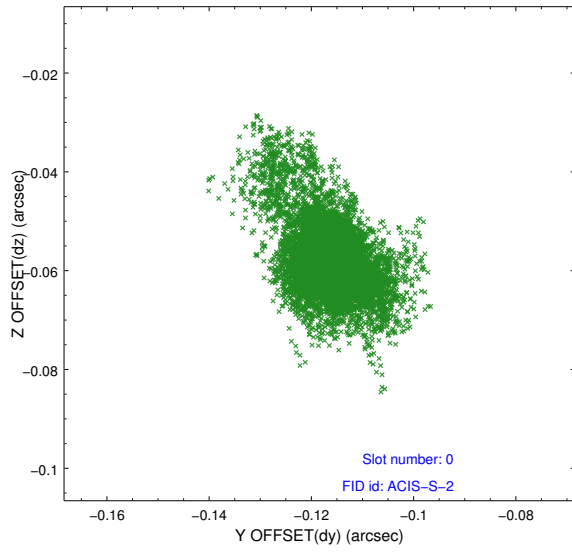


2.4.5 Slot 7

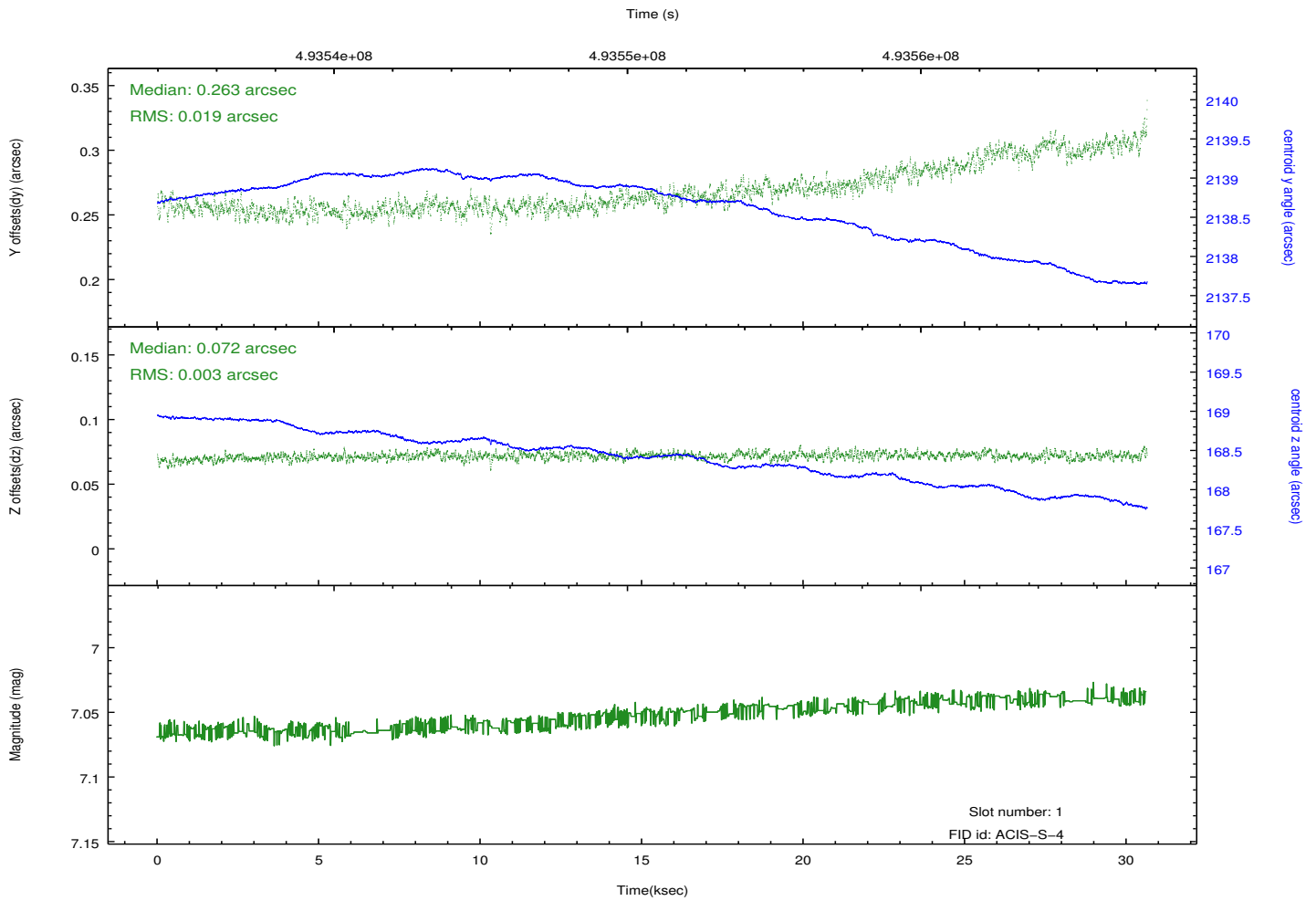
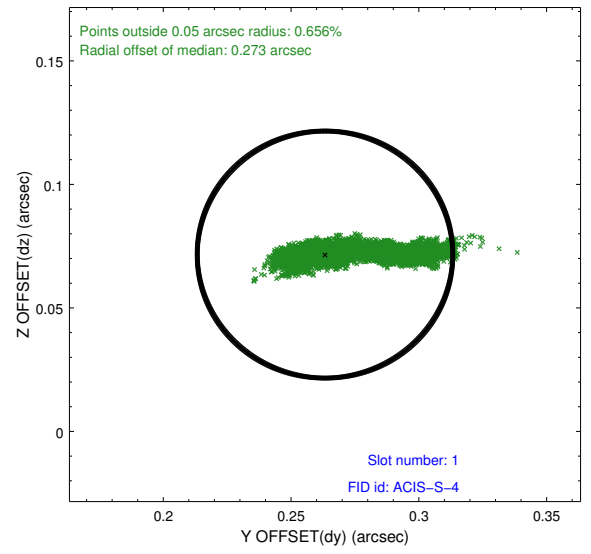
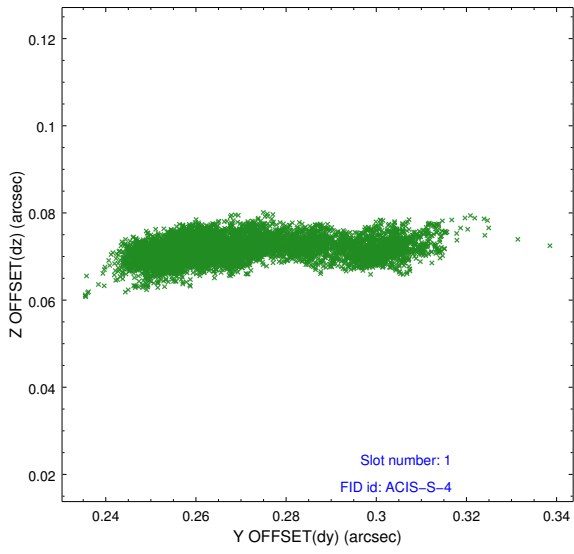


2.5 FID Slots

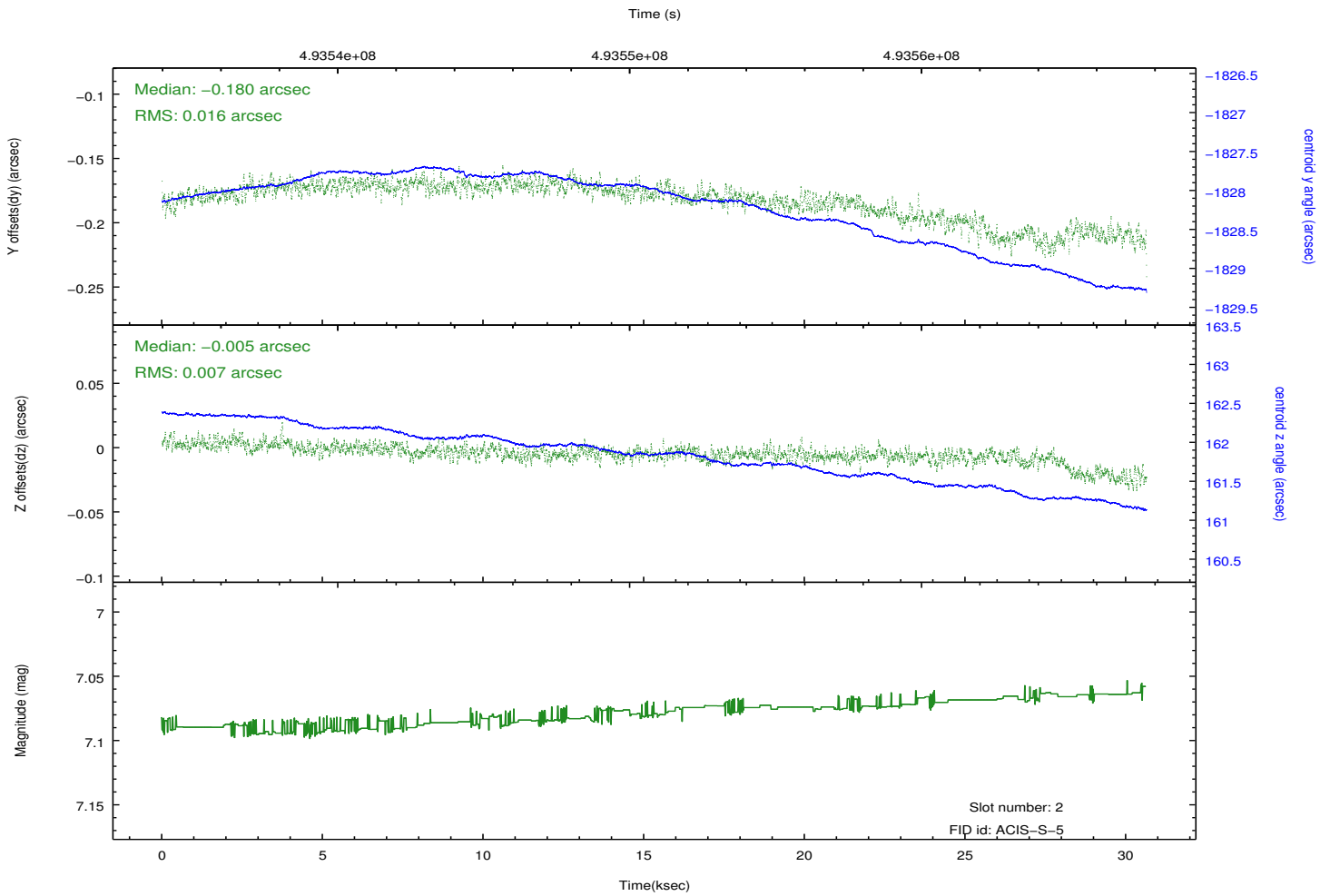
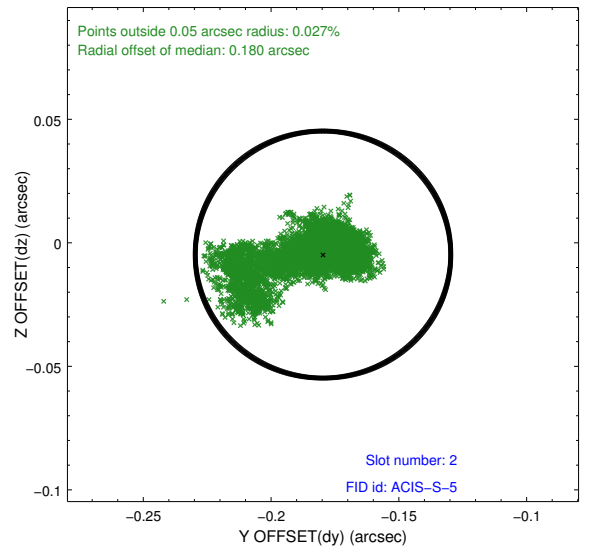
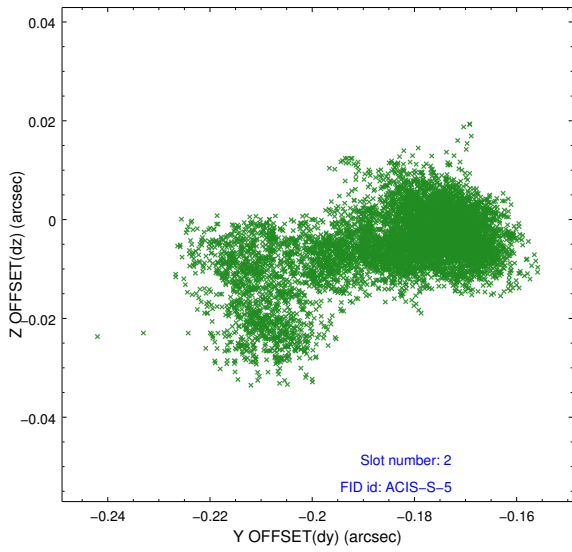
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.116260284185

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.