

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19583 - L2 Version 1
Chandra X-Ray Center

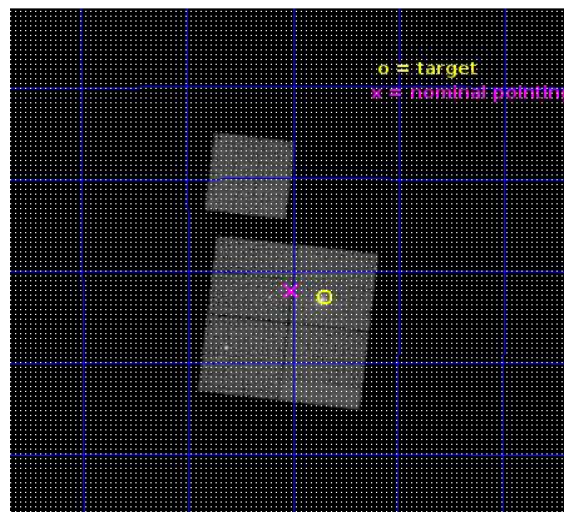
L2 Processing Date : Sep 14 2017

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1 Front

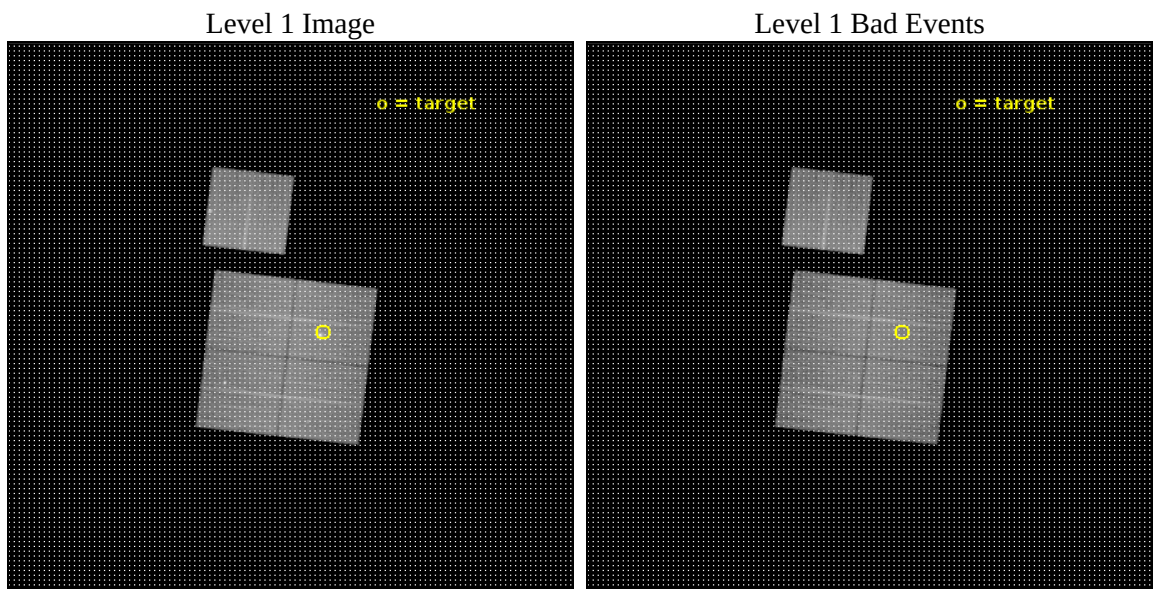
seq_num	801673	Sequence number
obs_id	19583	Observation id
title	A Deep, High-Resolution X-ray Analysis of the Phoenix Cluster	Prop
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2344-4242	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	356.175	Observer's specified target RA [deg]
dec_targ	-42.714611	Observer's specified target Dec [deg]
ra_nom	356.25353336376	Nominal RA [deg]
dec_nom	-42.703623291924	Nominal Dec [deg]
roll_nom	6.7115277238635	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25068.303152204	Sum of GTIs [s]
livetime	24740.767316504	Livetime [s]
ontime0	25068.180052161	Sum of GTIs [s]
ontime1	25071.362102389	Sum of GTIs [s]
ontime2	25058.839191079	Sum of GTIs [s]
ontime3	25068.303152204	Sum of GTIs [s]
ontime6	25071.280022383	Sum of GTIs [s]
l2events	140526	Number of level 2 events



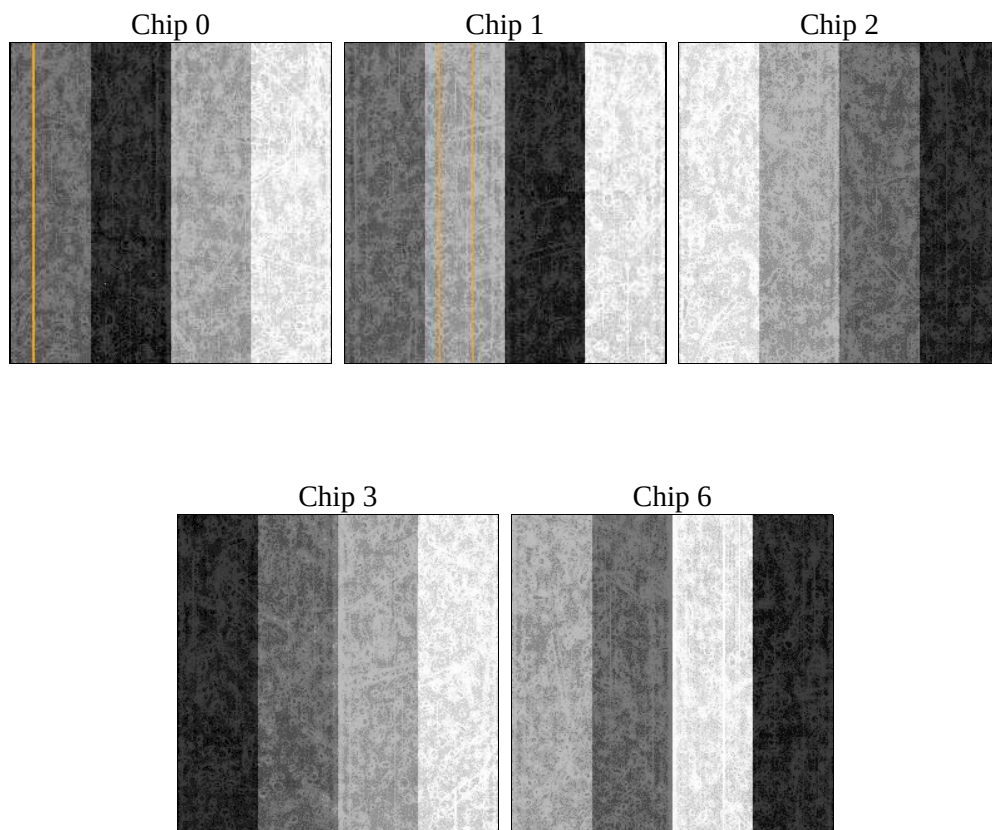
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25068.303152204	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	25068.180052161	Sum of GTIs [s]
date	2017-09-15T00:36:06	Date and time of file creation	ontime1	25071.362102389	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25058.839191079	Sum of GTIs [s]
			ontime3	25068.303152204	Sum of GTIs [s]
			ontime6	25071.280022383	Sum of GTIs [s]
			l1events	1060158	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	192658	202295	221119	220845	223241
rejected events	160780	170548	189414	179204	190536
rejected %	83%	84%	85%	81%	85%

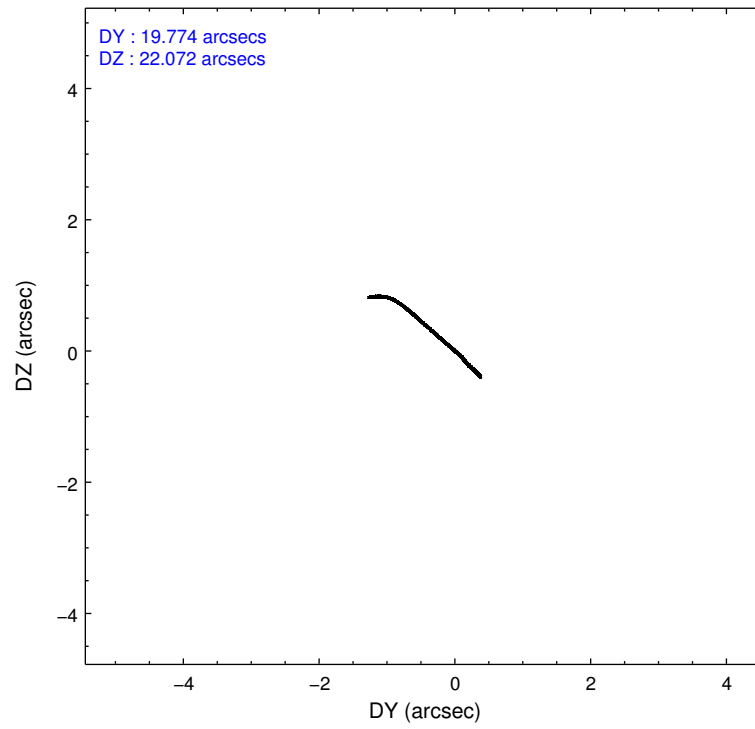
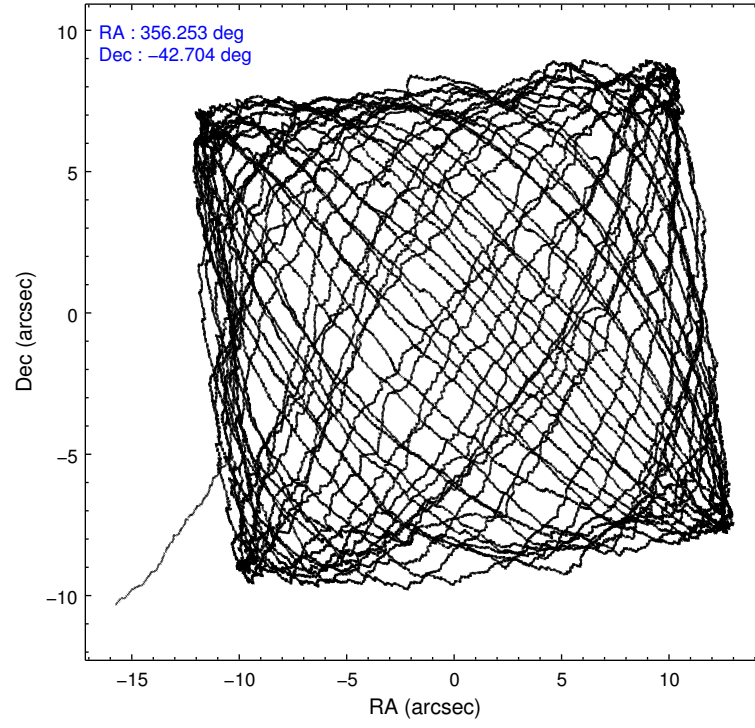
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	13361	12207	13254	22111	11553
	6%	6%	5%	10%	5%
grade 1 events	135	125	165	231	108
	0%	0%	0%	0%	0%
grade 2 events	7595	7781	7673	7399	9622
	3%	3%	3%	3%	4%
grade 3 events	2648	2596	2467	2874	2350
	1%	1%	1%	1%	1%
grade 4 events	2502	2595	2787	3084	2477
	1%	1%	1%	1%	1%
grade 5 events	7688	8098	7142	8670	8219
	3%	4%	3%	3%	3%
grade 6 events	5777	6575	5525	6175	6706
	2%	3%	2%	2%	3%
grade 7 events	152952	162318	182106	170301	182206
	79%	80%	82%	77%	81%

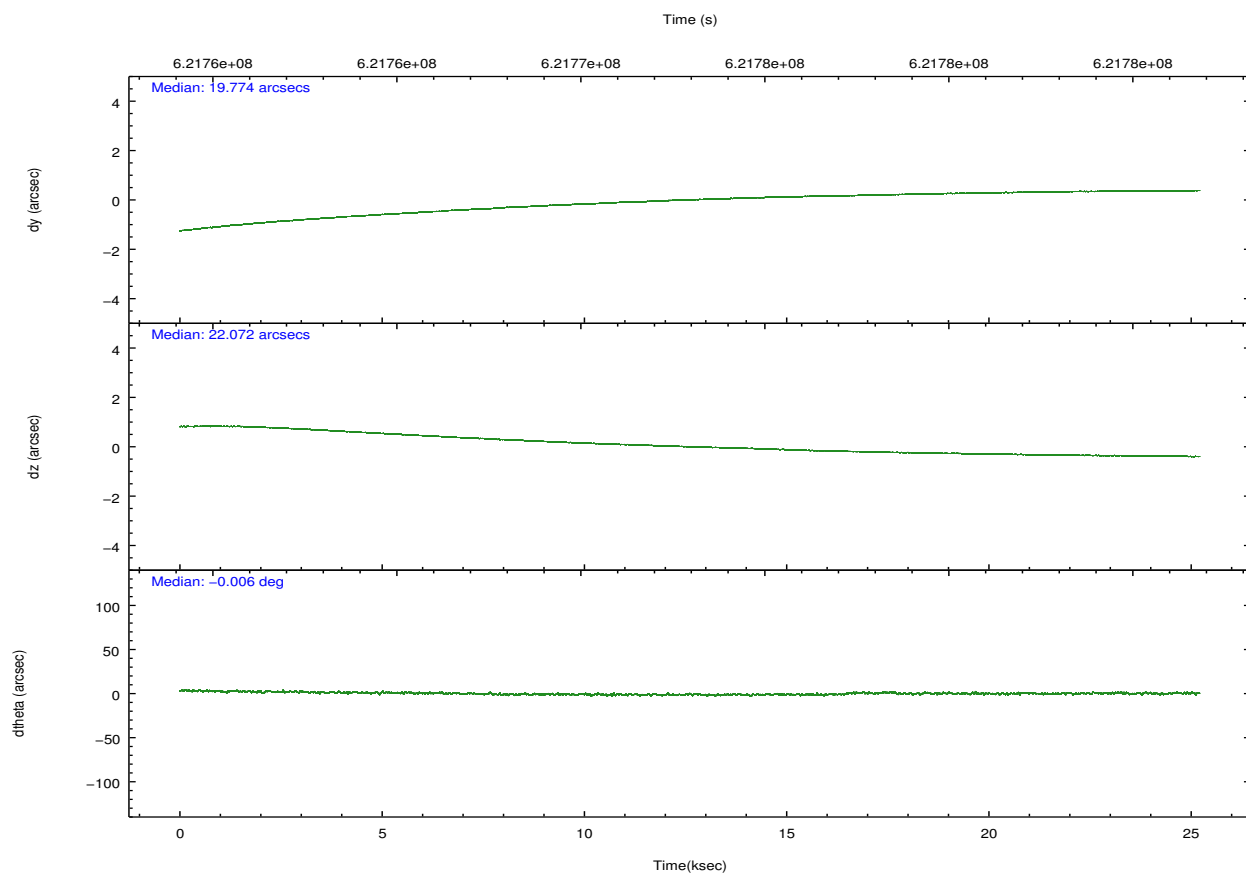
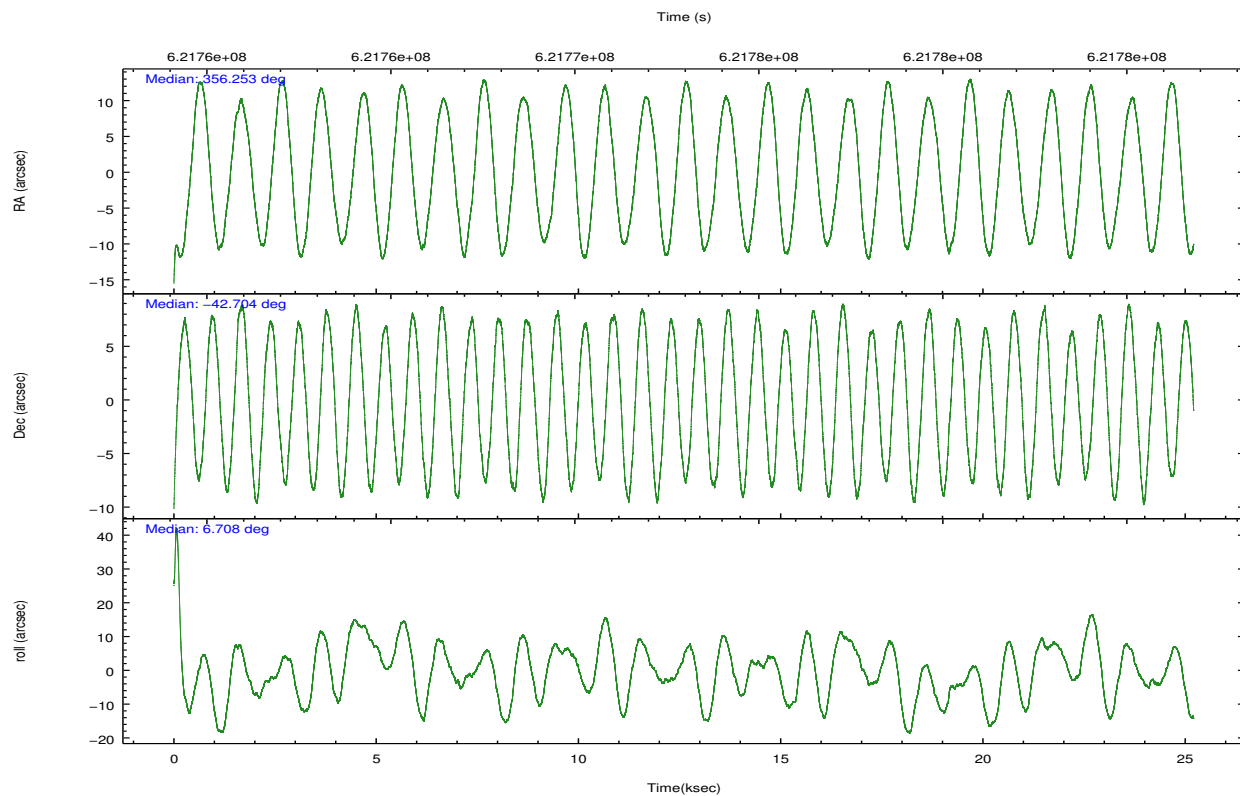
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	356.223531	356.2535333637579
[deg] Pointing Dec	-42.720214	-42.70362329192357
[deg] Pointing Roll	6.482493	6.711527723863524
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.840463	-225.8433433320239
[mm] SIM translation stage offset	-7.752	-7.749109670905796
[s] Observation start time (MET)	621760561.184000	621759445.0886101
Observation start date	2017-09-14T07:14:52	2017-09-14T06:57:25
[s] Observation end time (MET)	621785561.184000	621786265.7526799
Observation end date	2017-09-14T14:11:32	2017-09-14T14:24:25
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



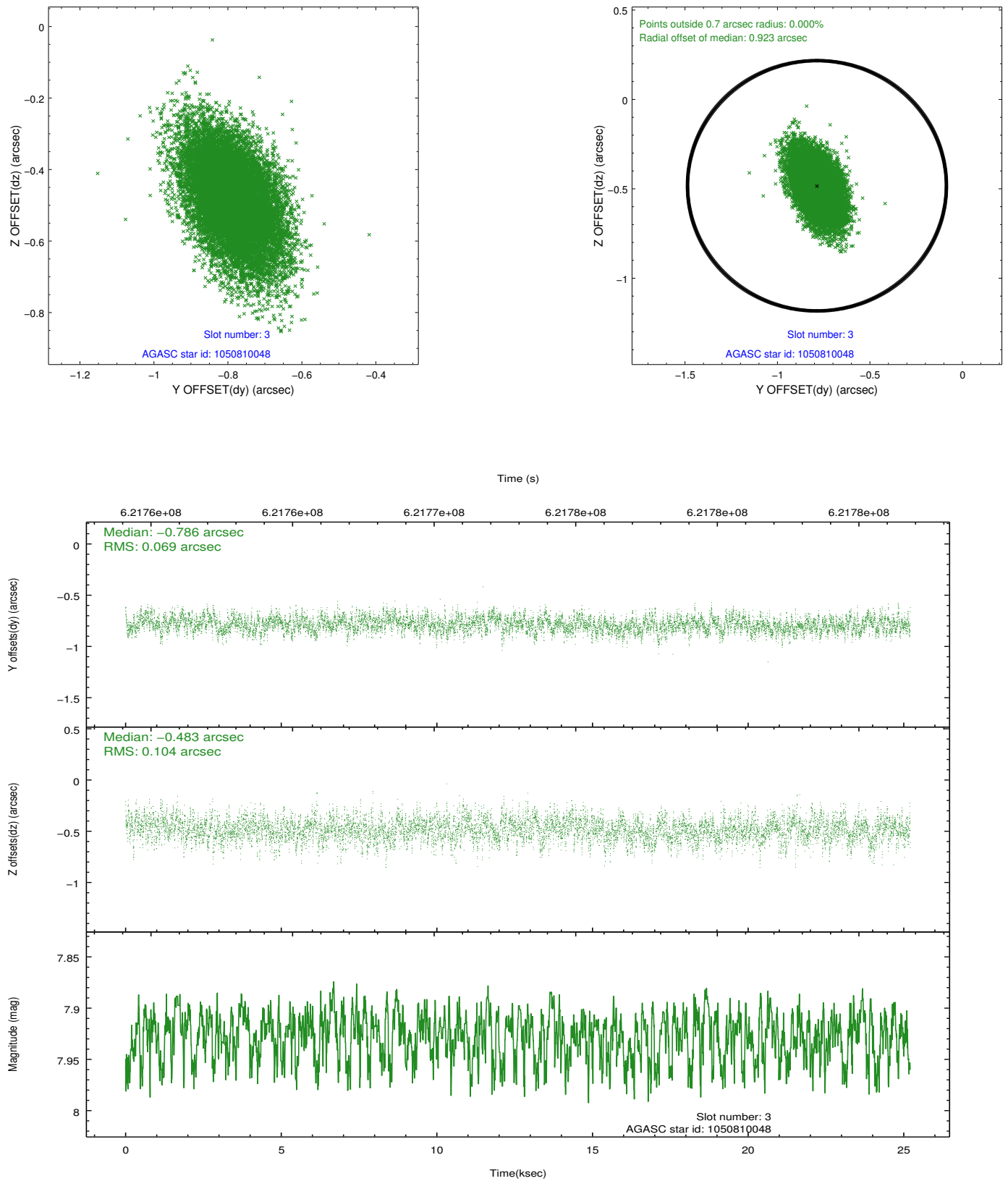


Slot Statistics

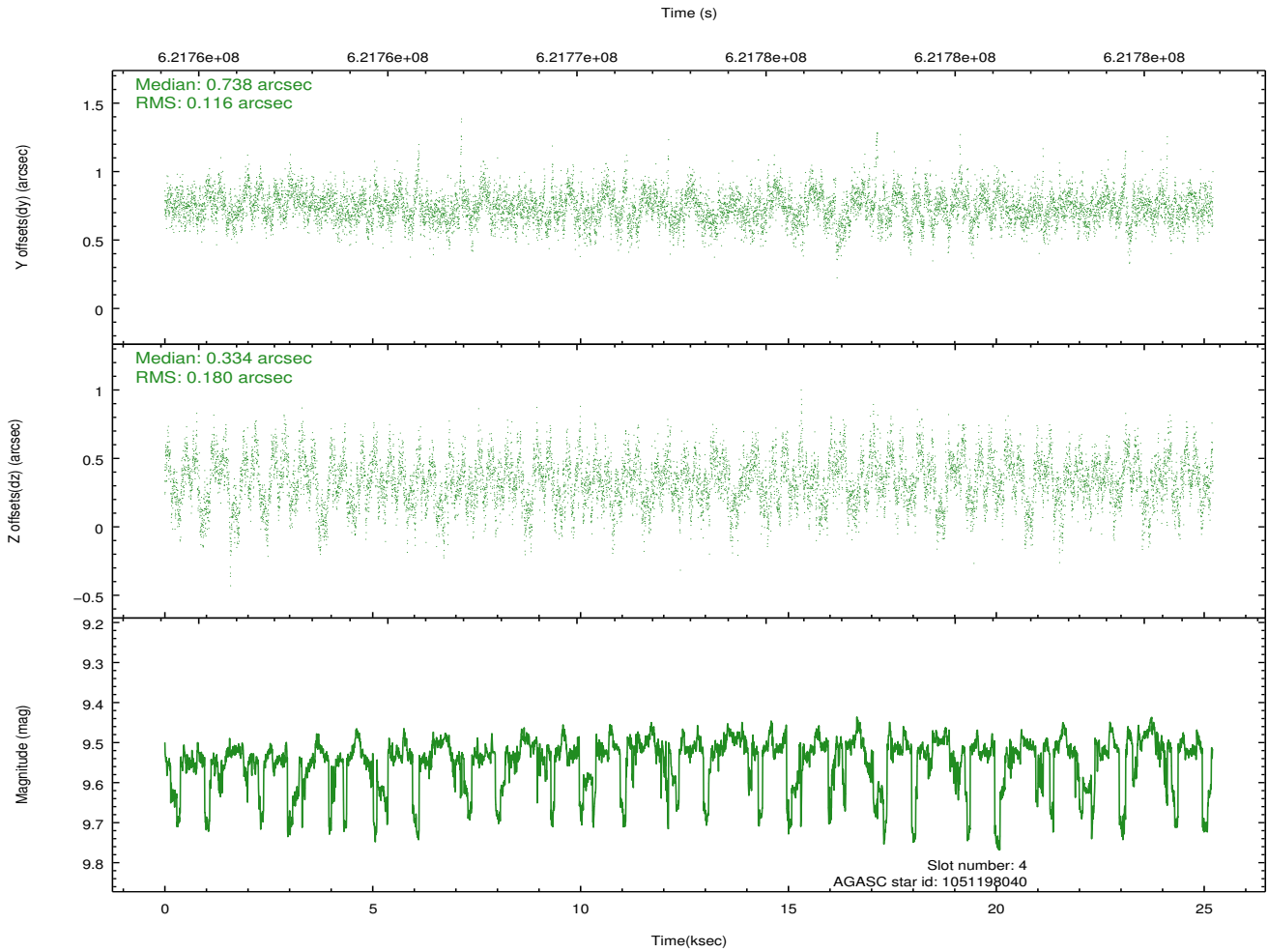
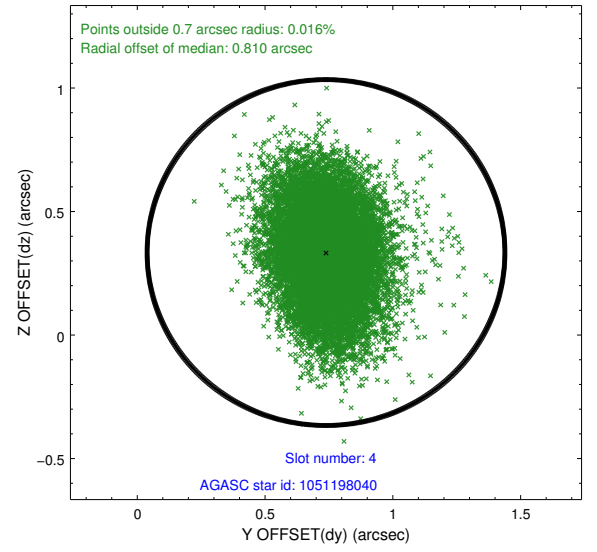
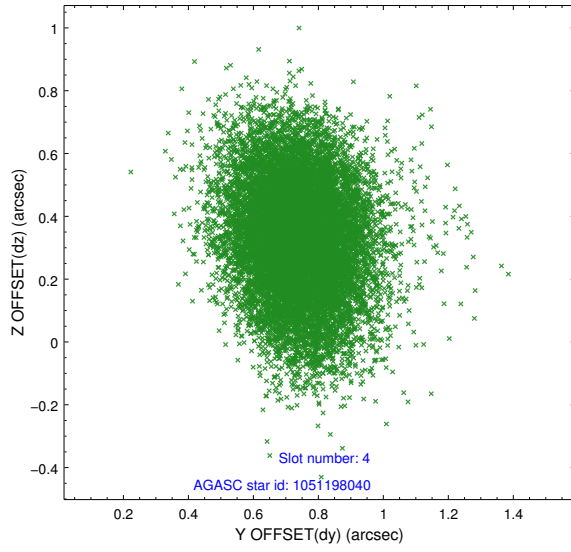
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	6149	-0.114	-0.151	0.015	0.031	0.000000	0.000000	919.51	-1005.12
1	FID		ACIS-I-4	7.02	6147	0.108	0.146	0.017	0.027	0.000000	0.000000	2139.27	895.94
2	FID		ACIS-I-6	7.12	6148	-0.088	0.076	0.027	0.039	0.000000	0.000000	385.41	1537.10
3	GUIDE	used	1050810048	7.93	12292	-0.786	-0.483	0.128	0.226	356.469230	-42.341180	803.59	1280.46
4	GUIDE	used	1051198040	9.53	12274	0.738	0.334	0.225	0.378	355.390308	-42.851948	-2238.32	-233.43
5	GUIDE	used	1051204328	9.86	11898	0.104	0.268	0.316	0.525	355.958163	-43.245581	-902.19	-1801.17
6	GUIDE	used	1051205696	8.11	12293	-0.021	-0.128	0.151	0.260	356.065268	-43.024313	-536.72	-1040.60
7	GUIDE	used	1051205736	9.57	12286	-0.027	0.045	0.304	0.496	356.603876	-43.253982	774.86	-2024.42

2.4 Star Slots

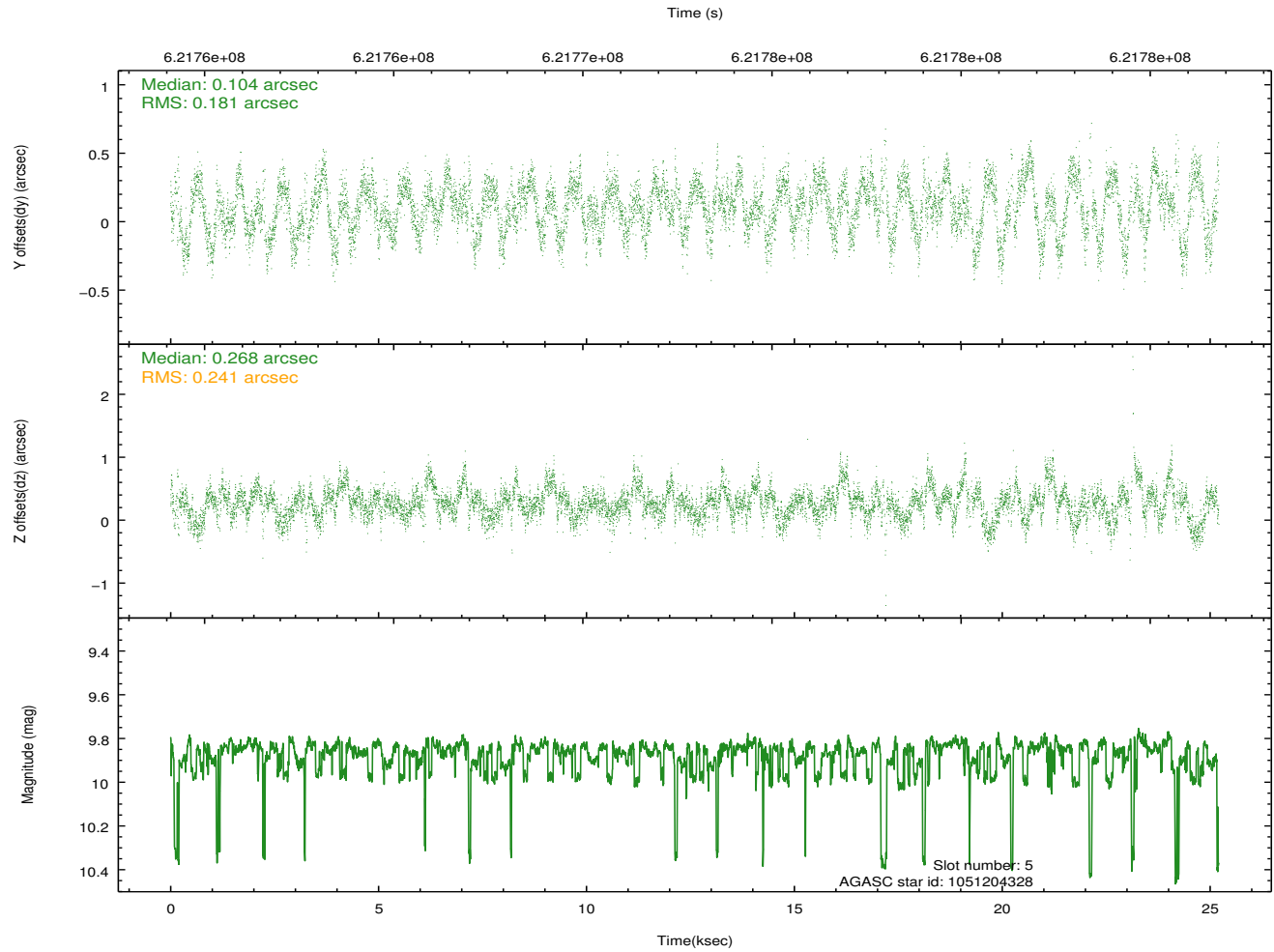
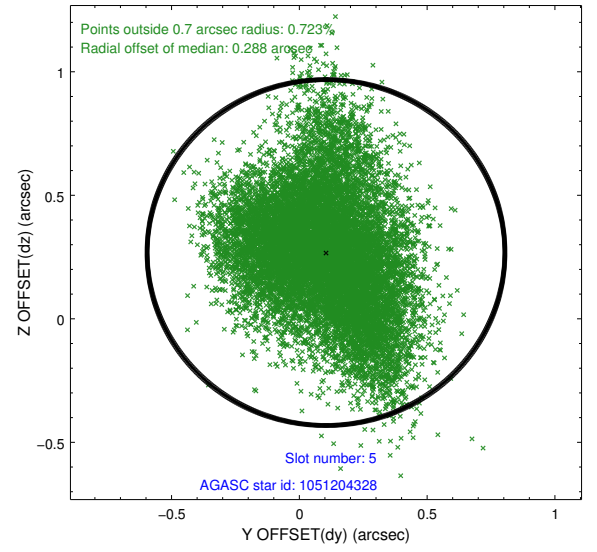
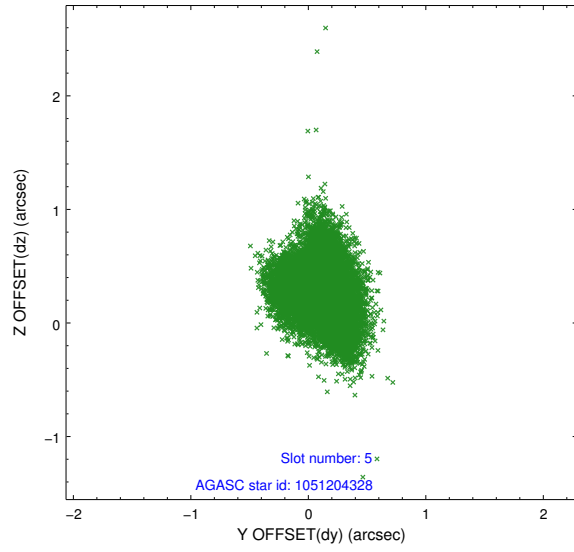
2.4.1 Slot 3



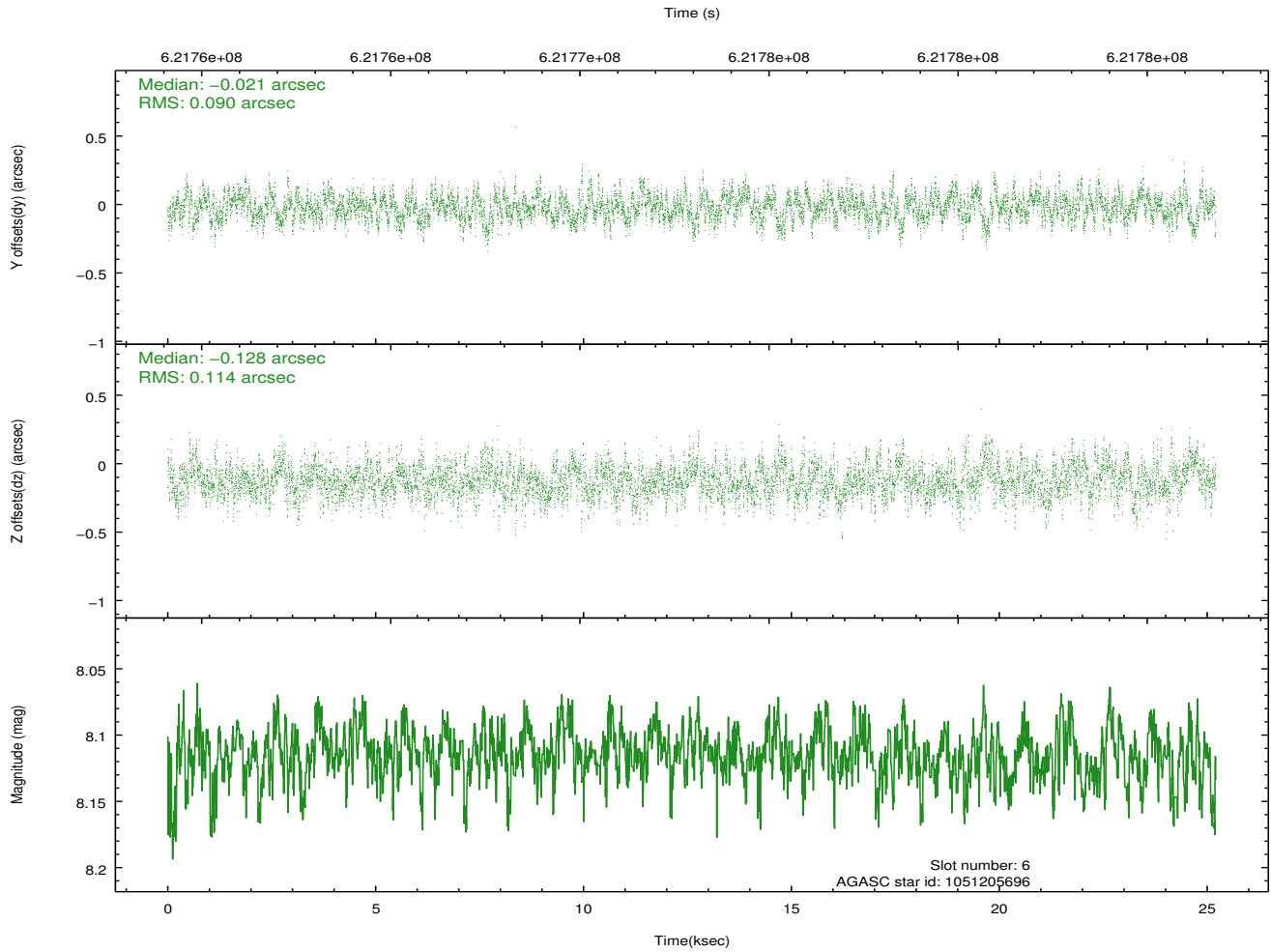
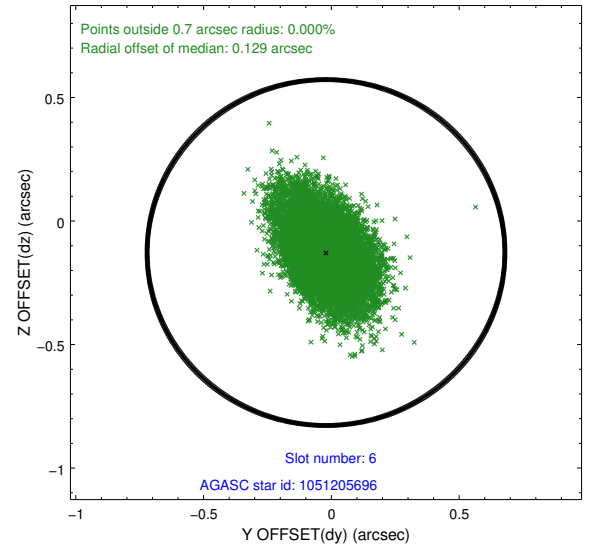
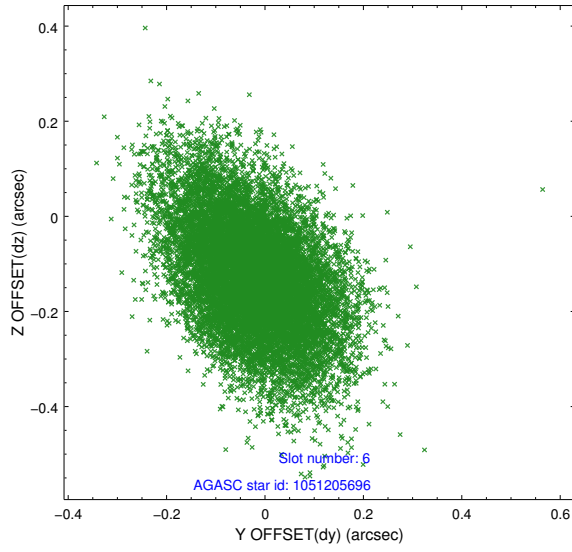
2.4.2 Slot 4



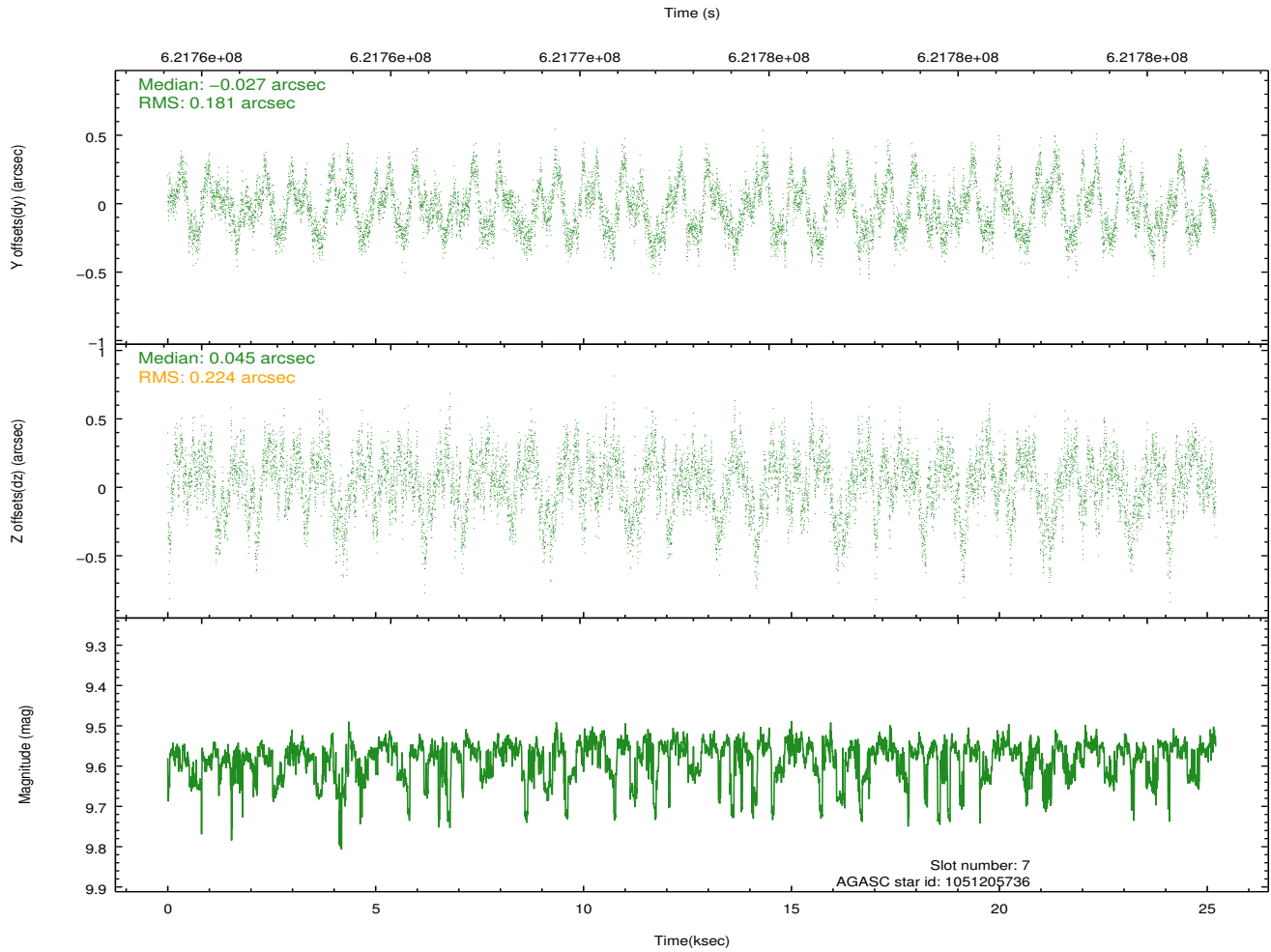
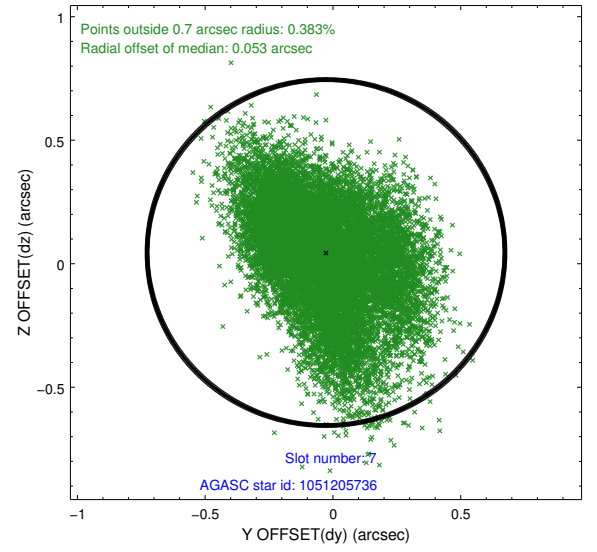
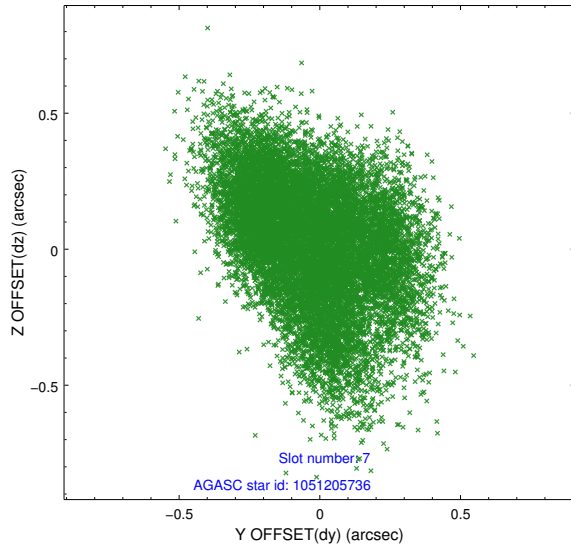
2.4.3 Slot 5



2.4.4 Slot 6

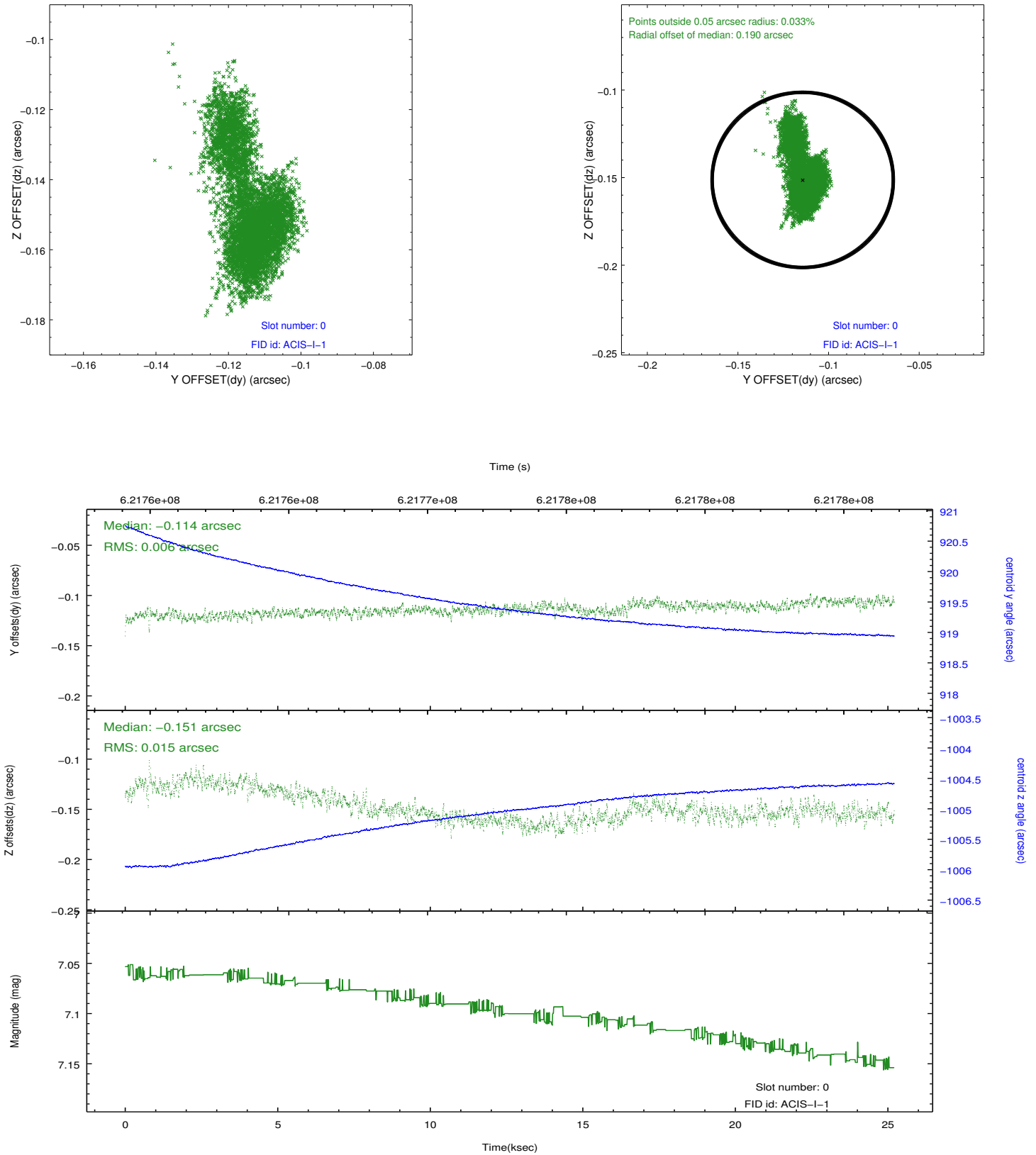


2.4.5 Slot 7

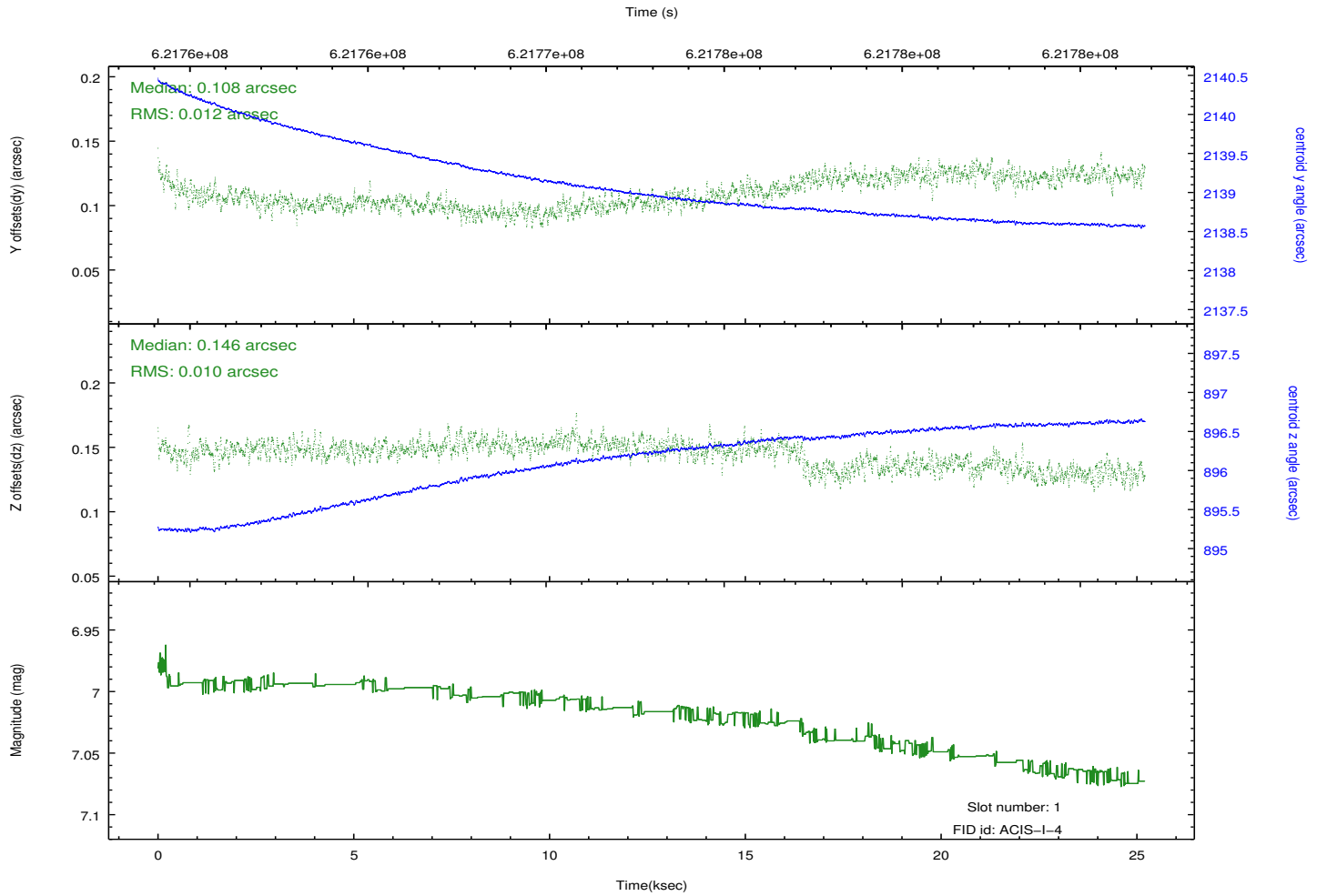
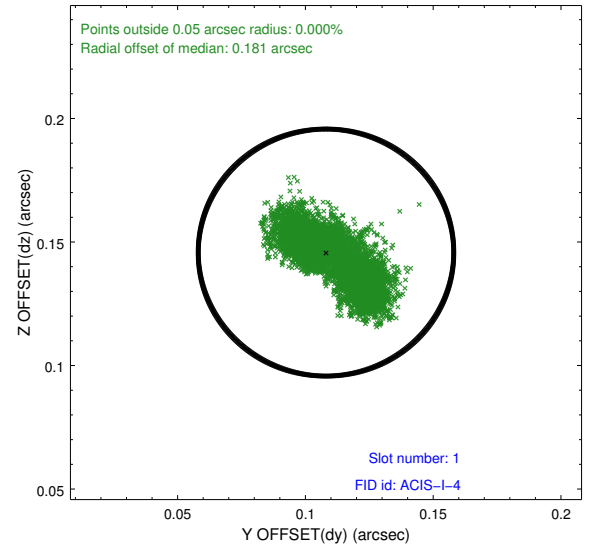
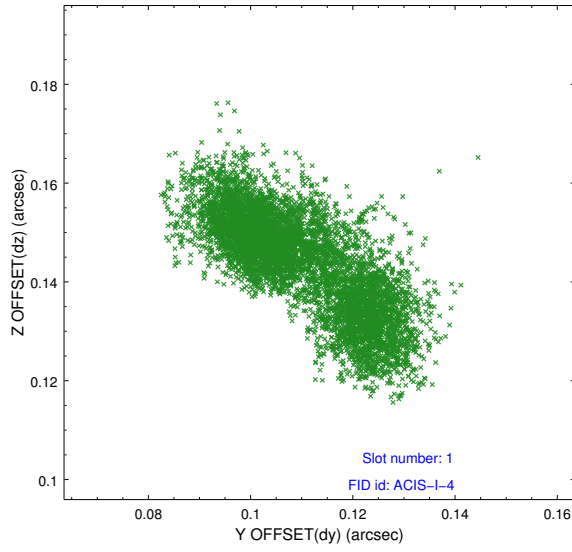


2.5 FID Slots

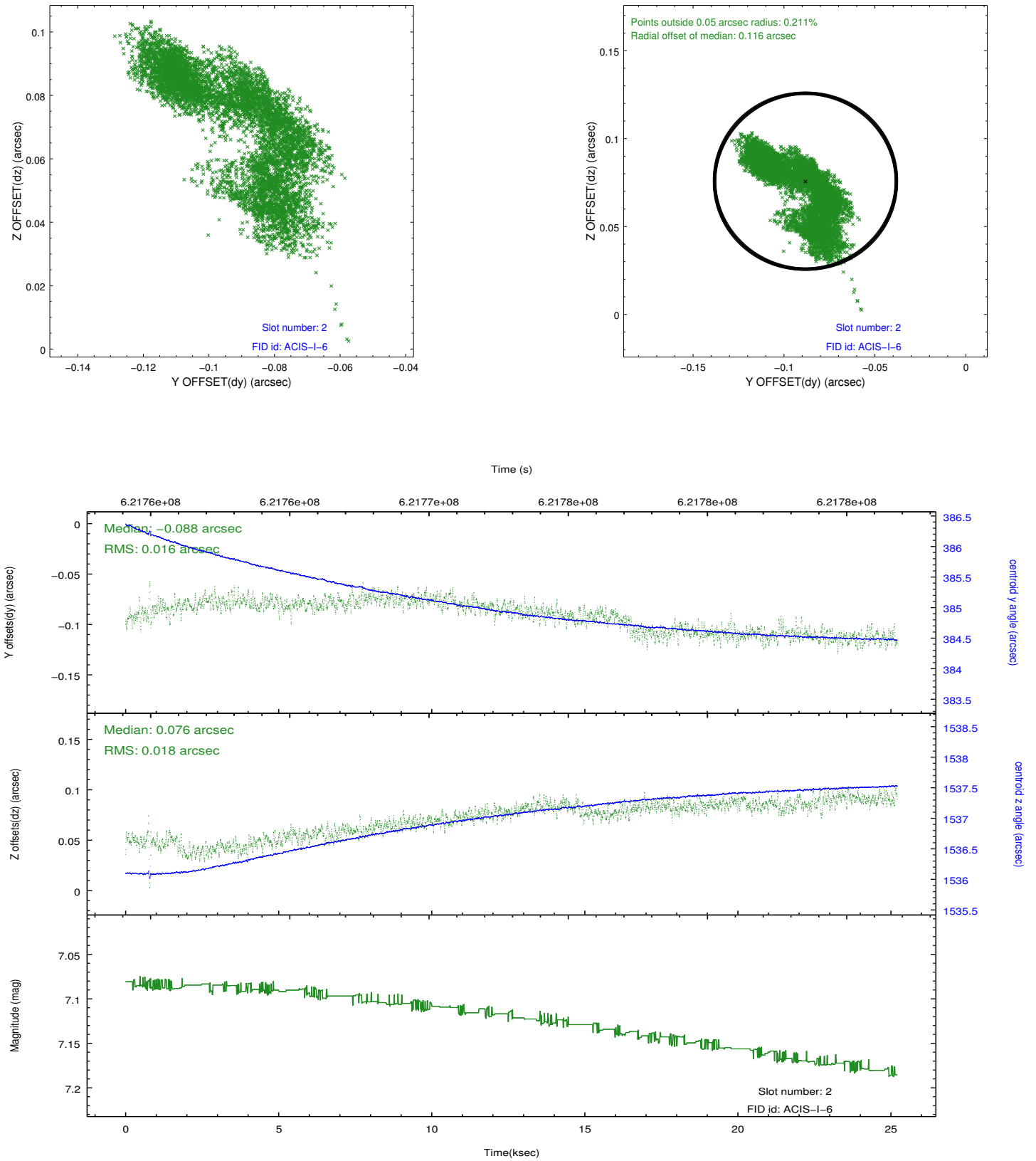
2.5.1 Slot 0



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)	2017.09.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.068303152204

A.2 Comments