

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18477 - L2 Version 1
Chandra X-Ray Center

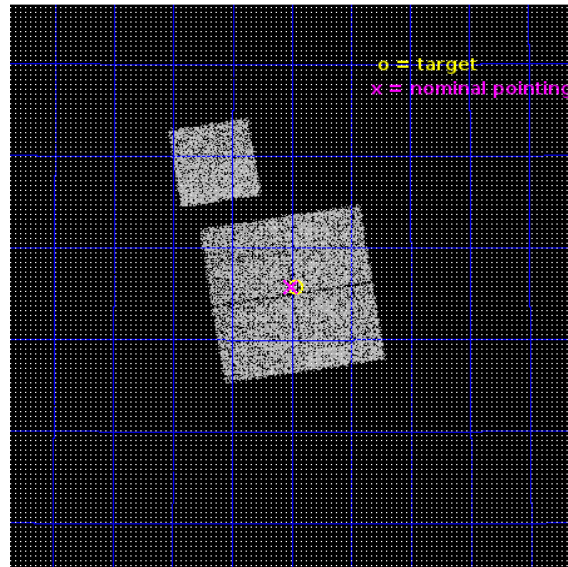
L2 Processing Date : Oct 26 2016

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1 Front

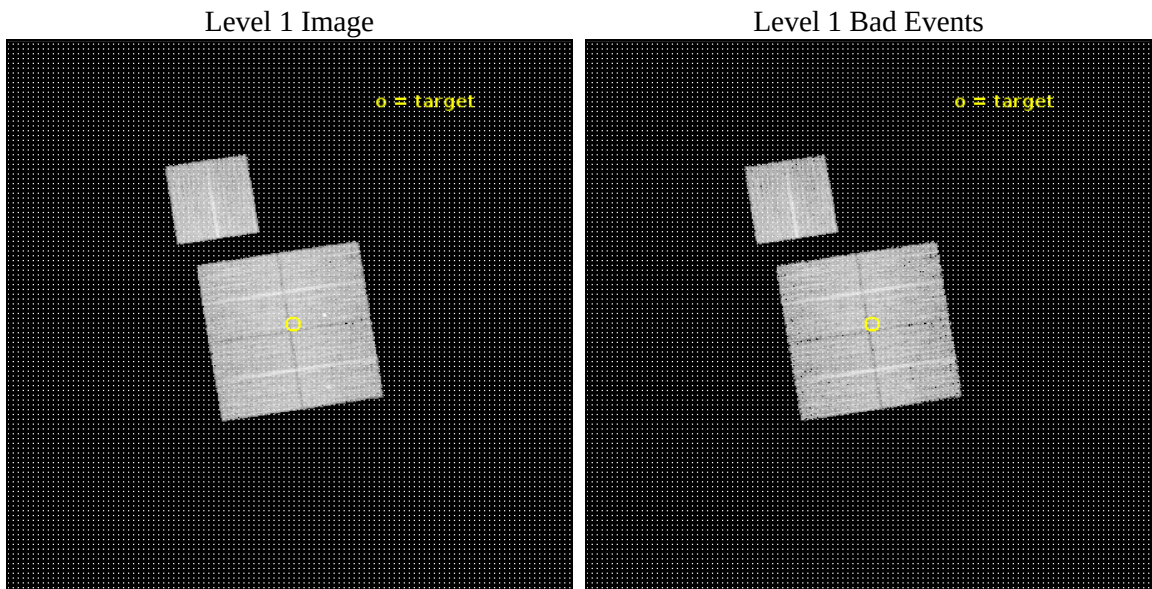
seq_num	901210	Sequence number
obs_id	18477	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.7415	Observer's specified target RA [deg]
dec_targ	33.92775	Observer's specified target Dec [deg]
ra_nom	216.75070999182	Nominal RA [deg]
dec_nom	33.929664437225	Nominal Dec [deg]
roll_nom	351.07354409584	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.086612225	Sum of GTIs [s]
livetime	9936.5396486183	Livetime [s]
ontime0	10064.822422147	Sum of GTIs [s]
ontime1	10068.004532218	Sum of GTIs [s]
ontime2	10068.045572281	Sum of GTIs [s]
ontime3	10068.086612225	Sum of GTIs [s]
ontime6	10064.781402111	Sum of GTIs [s]
l2events	31816	Number of level 2 events



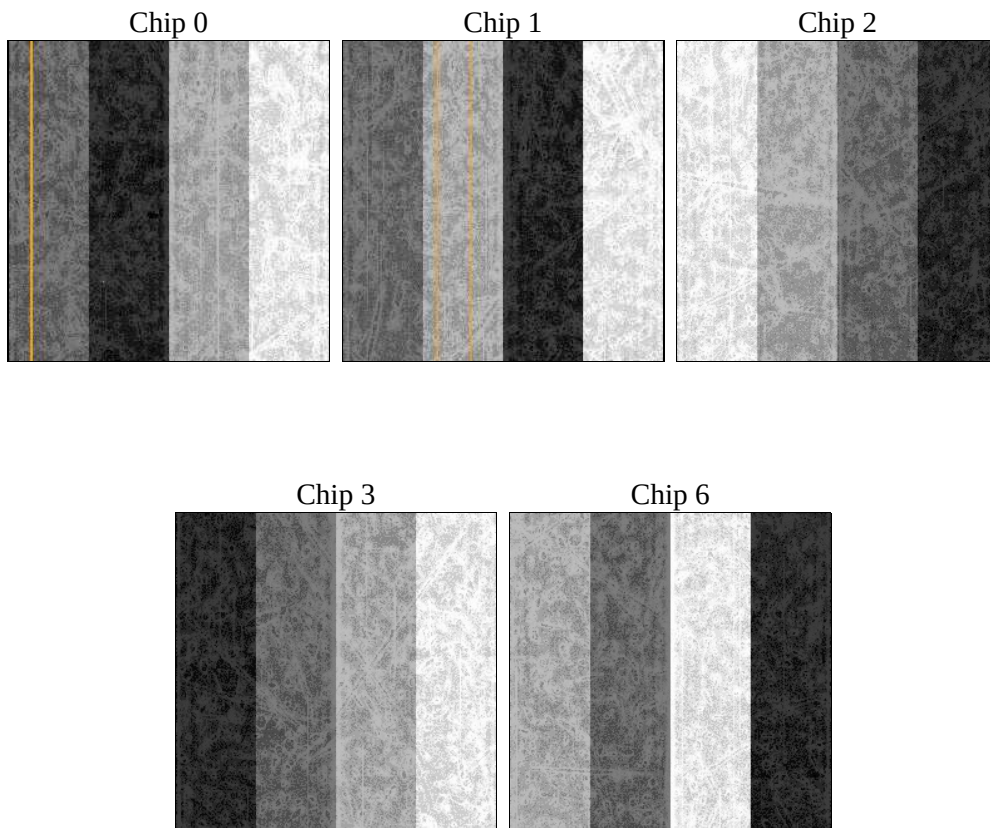
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	10068.086612225	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	10064.822422147	Sum of GTIs [s]
date	2016-10-26T05:52:53	Date and time of file creation	ontime1	10068.004532218	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10068.045572281	Sum of GTIs [s]
			ontime3	10068.086612225	Sum of GTIs [s]
			ontime6	10064.781402111	Sum of GTIs [s]
			l1events	344058	Number of level 1 events

2.1.4 Events

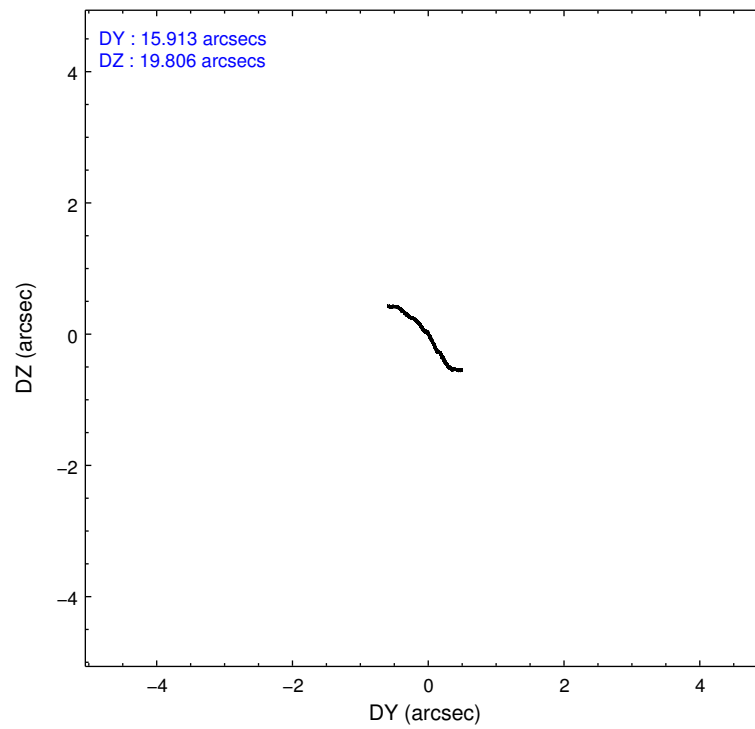
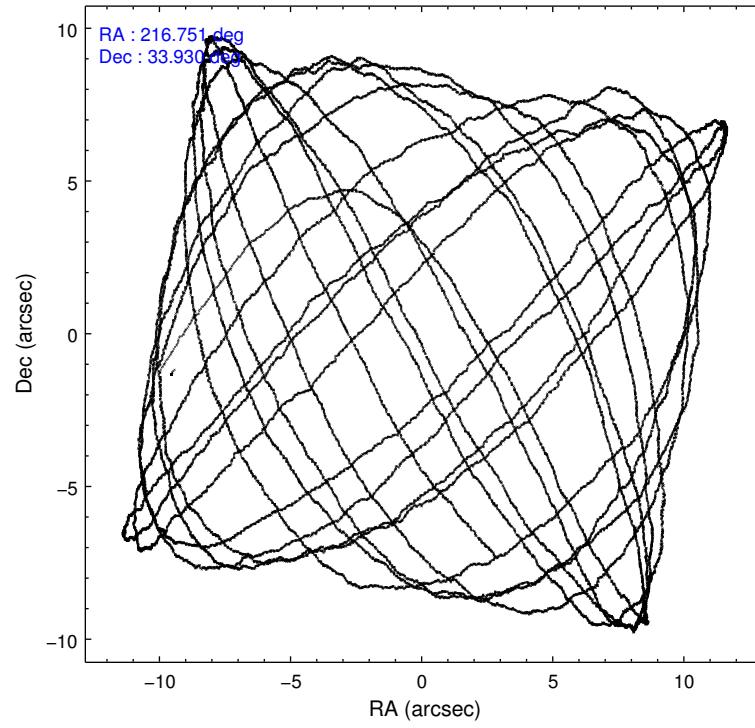
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	65456	66638	72434	68664	70866
rejected events	57772	58322	65459	60984	63282
rejected %	88%	87%	90%	88%	89%

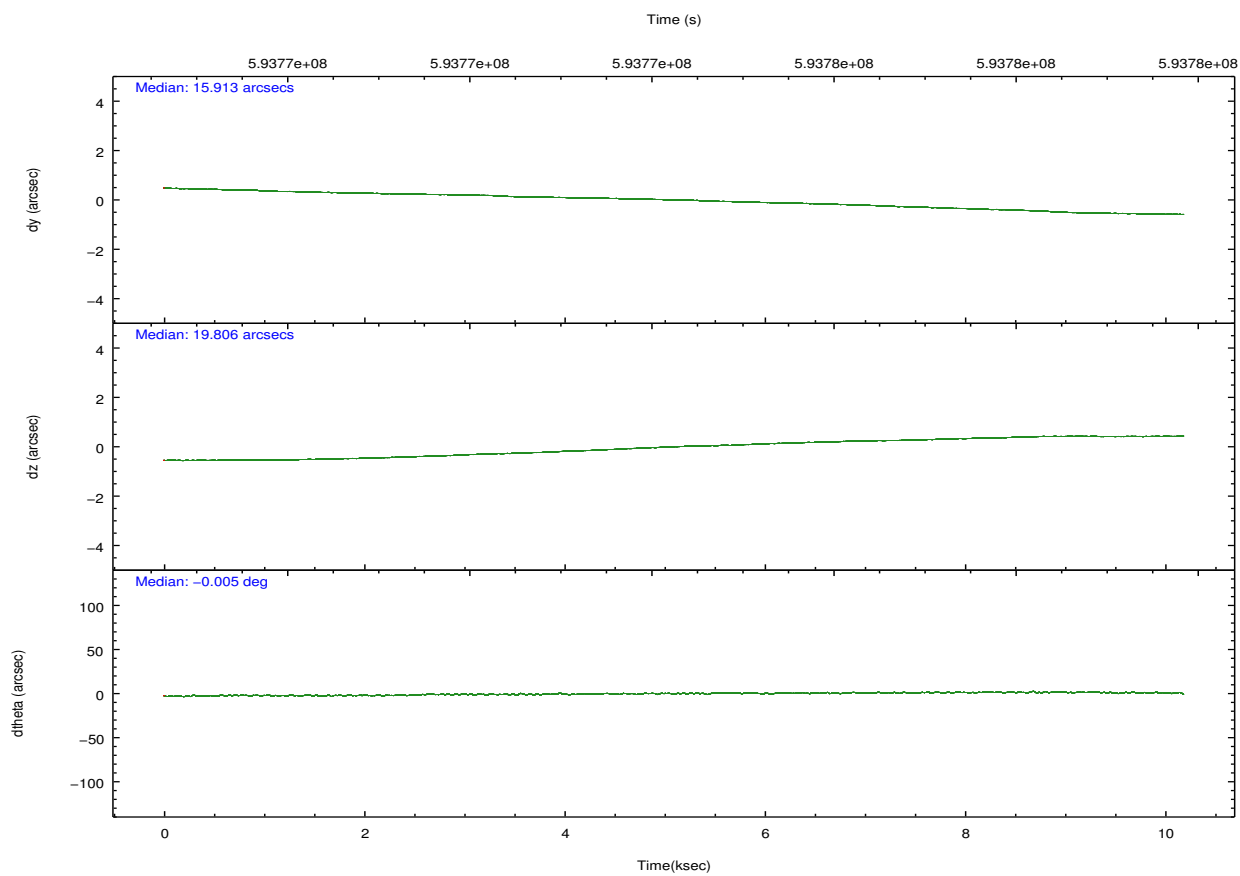
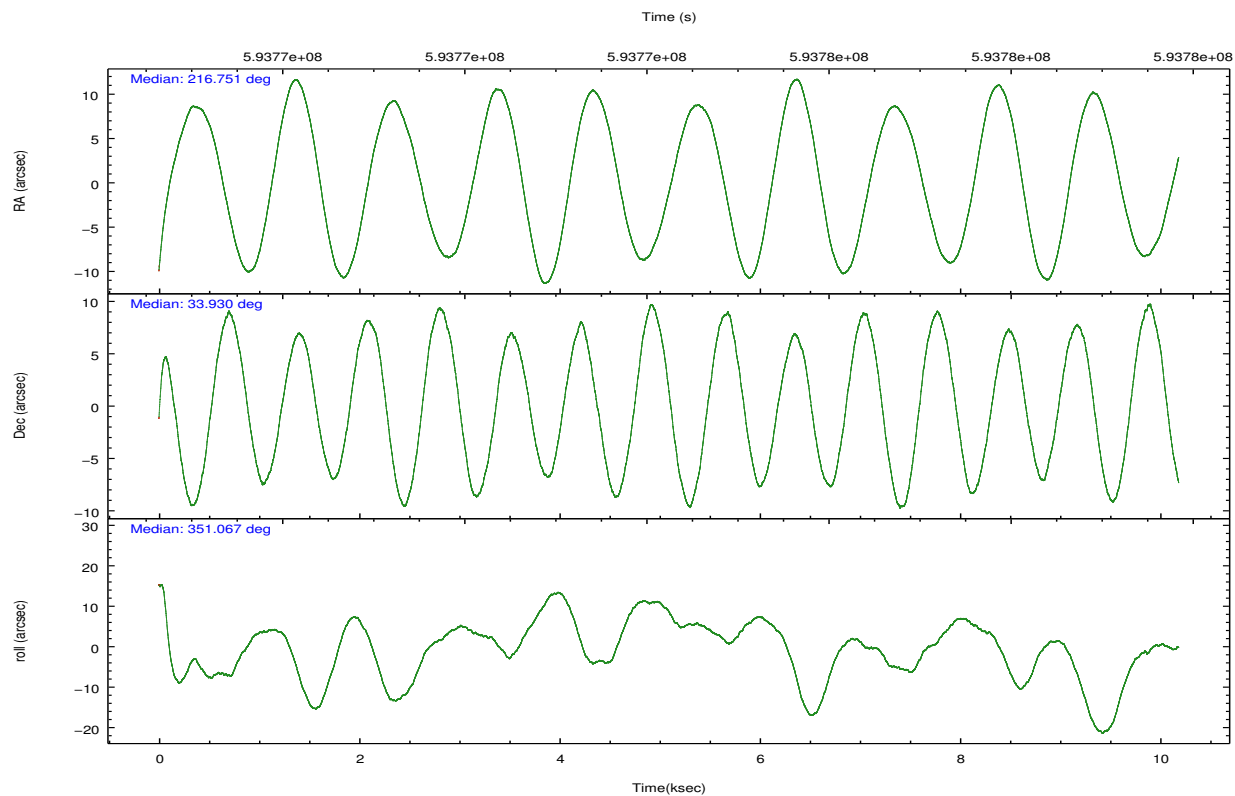
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2573	2635	2457	2396	2368
	3%	3%	3%	3%	3%
grade 1 events	25	32	43	35	32
	0%	0%	0%	0%	0%
grade 2 events	1899	2216	1663	2158	1846
	2%	3%	2%	3%	2%
grade 3 events	740	729	721	778	700
	1%	1%	0%	1%	0%
grade 4 events	723	751	707	785	702
	1%	1%	0%	1%	0%
grade 5 events	2745	2856	2640	3223	2995
	4%	4%	3%	4%	4%
grade 6 events	1755	1989	1435	1567	1973
	2%	2%	1%	2%	2%
grade 7 events	54996	55430	62768	57722	60250
	84%	83%	86%	84%	85%

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	216.719729	216.7507099918232	CCD I2 on	Y	Y
[deg] Pointing Dec	33.919647	33.92966443722501	CCD I3 on	Y	Y
[deg] Pointing Roll	350.882153	351.0735440958372	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	593769331.184000	593768010.58811	CCD S5 on	N	N
Observation start date	2016-10-25T07:54:23	2016-10-25T07:33:30	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	593779331.184000	593779480.33877	On-chip summing requested	N	N
Observation end date	2016-10-25T10:41:03	2016-10-25T10:44:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



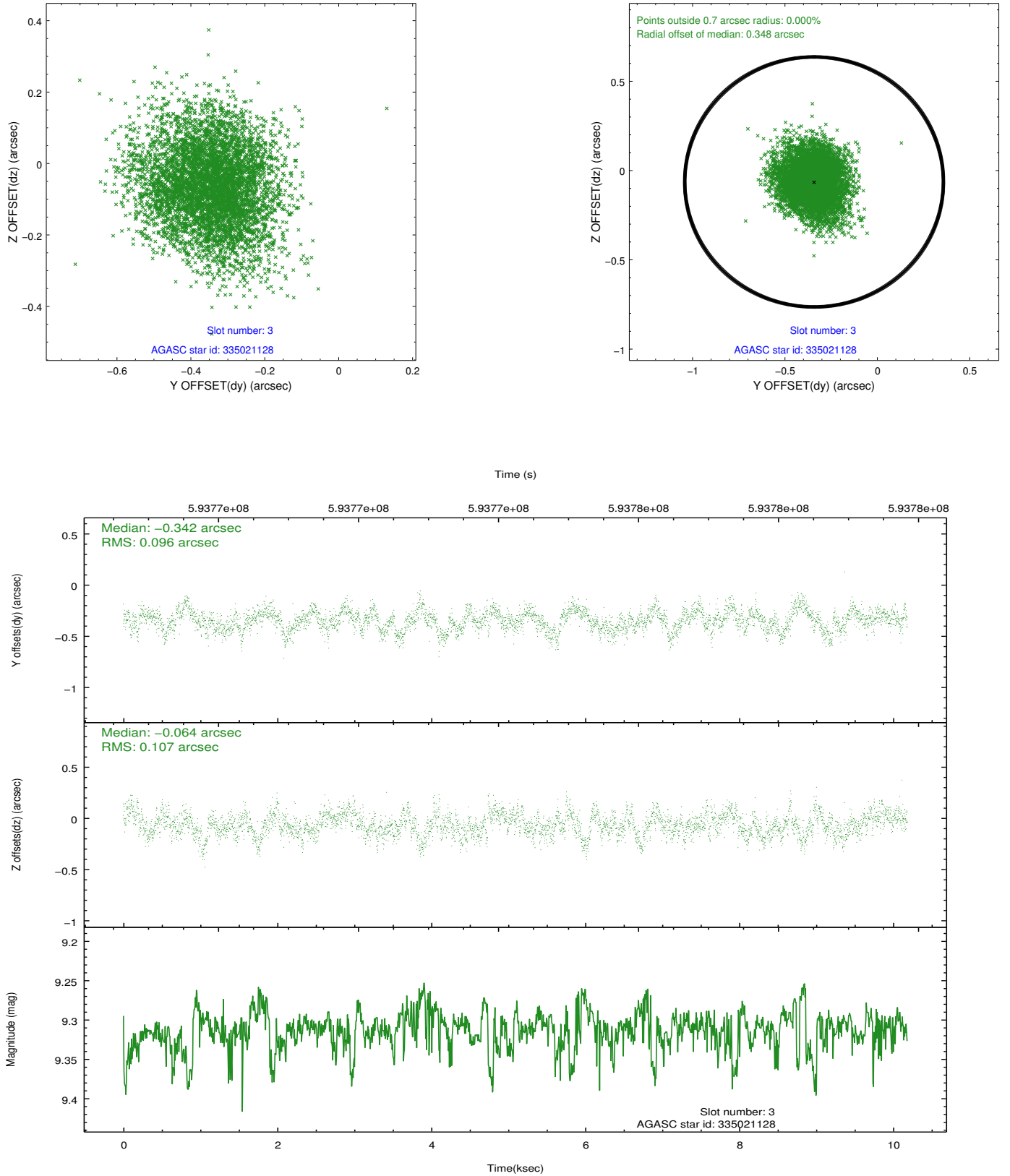


Slot Statistics

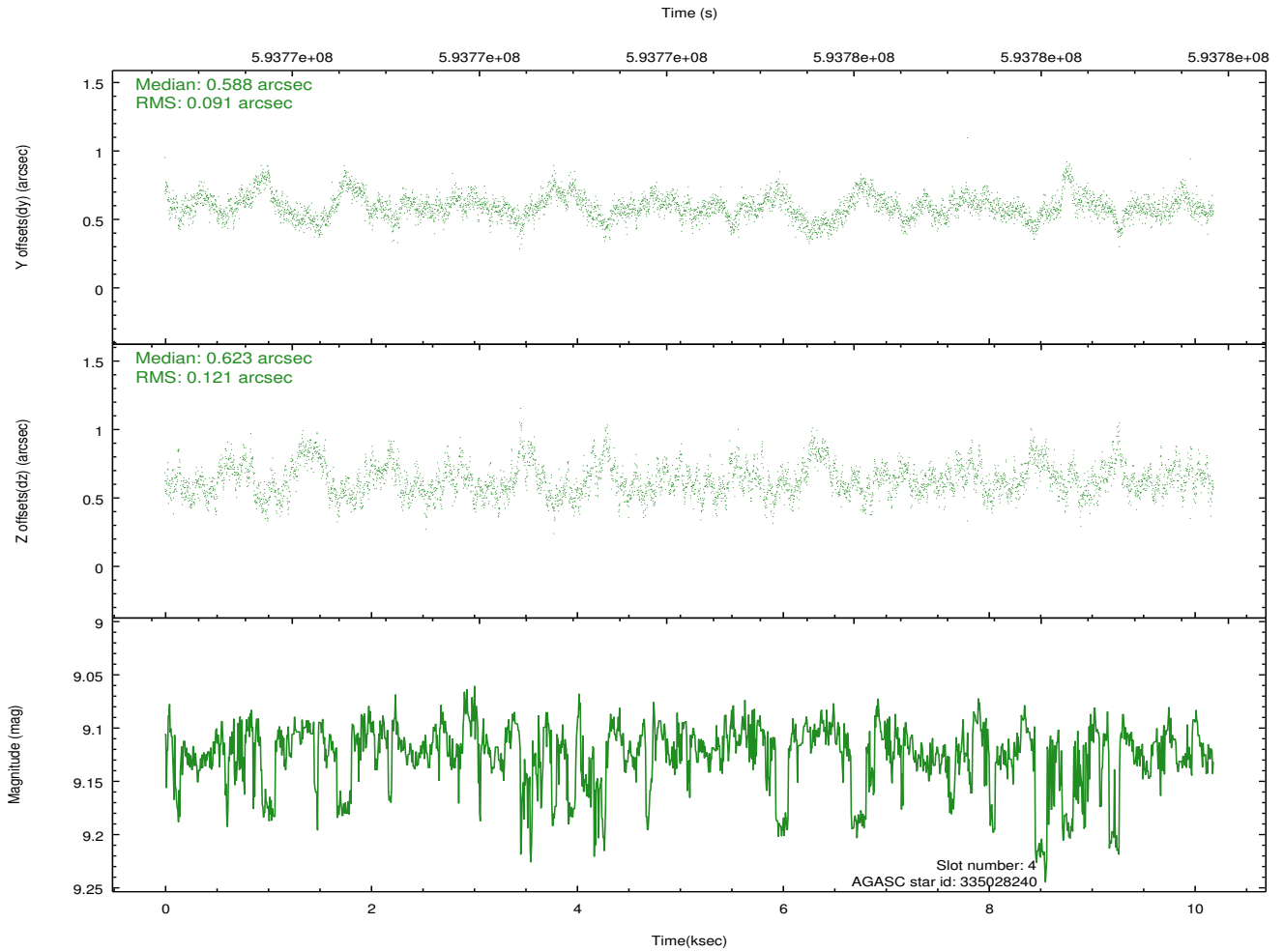
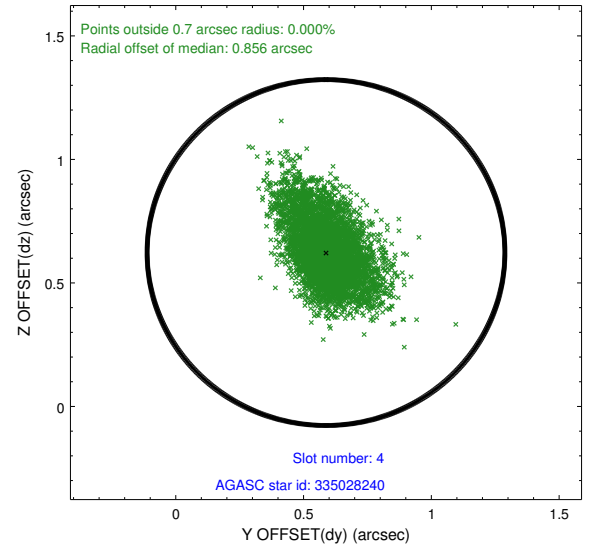
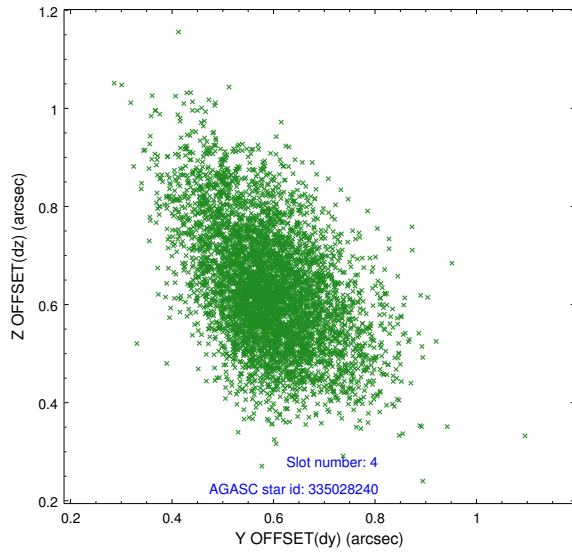
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.28	2485	0.078	-0.052	0.014	0.032	0.000000	0.000000	923.67	-843.50
1	FID		ACIS-I-5	7.29	2484	-0.382	0.029	0.012	0.018	0.000000	0.000000	-1824.69	1053.68
2	FID		ACIS-I-6	7.29	2485	0.212	0.092	0.018	0.028	0.000000	0.000000	388.67	1698.93
3	GUIDE	used	335021128	9.31	4966	-0.342	-0.064	0.154	0.245	216.159551	34.422539	-1930.78	1528.18
4	GUIDE	used	335028240	9.12	4965	0.588	0.623	0.154	0.276	216.746851	33.385009	384.77	-1886.05
5	GUIDE	used	335021368	9.64	4963	-0.344	-0.231	0.248	0.385	217.529643	33.934817	2377.91	446.42
6	GUIDE	used	335028696	9.18	4964	-0.680	-0.360	0.247	0.358	217.260519	33.844112	1638.66	-8.10
7	GUIDE	used	335024096	10.56	4840	0.778	0.010	0.296	0.493	216.160719	34.374830	-1899.72	1359.03

2.4 Star Slots

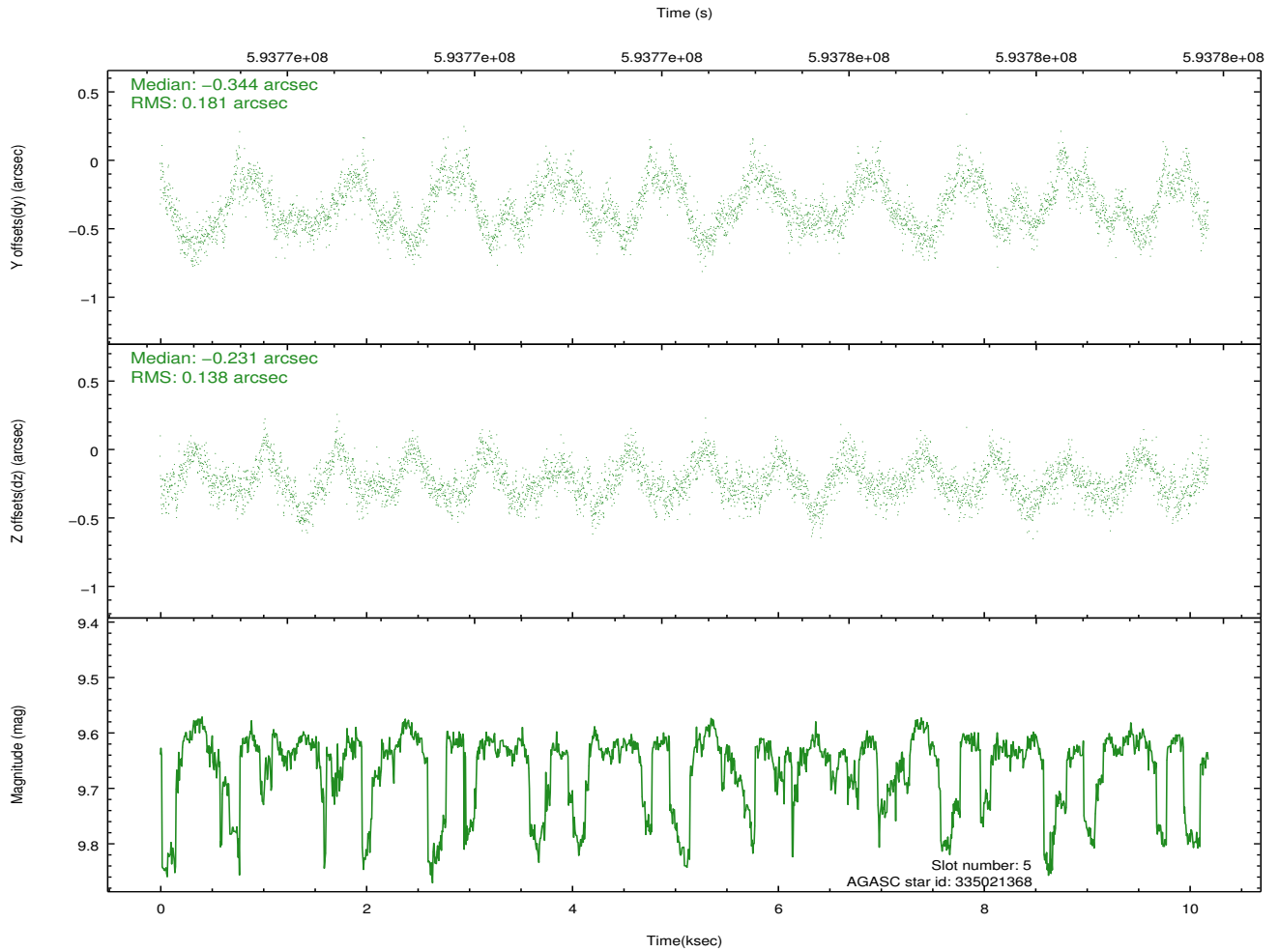
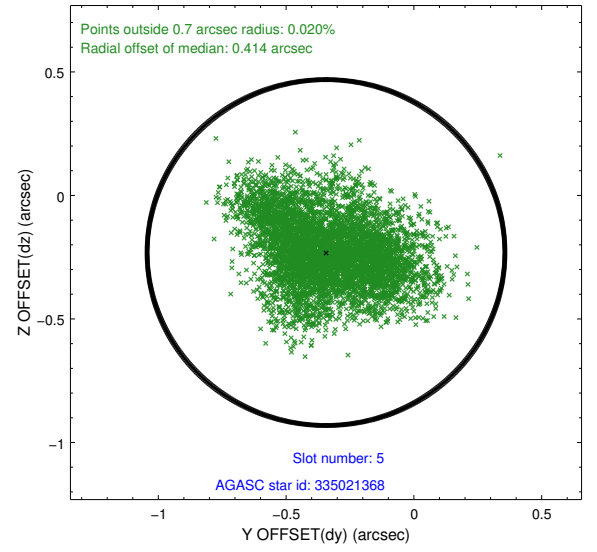
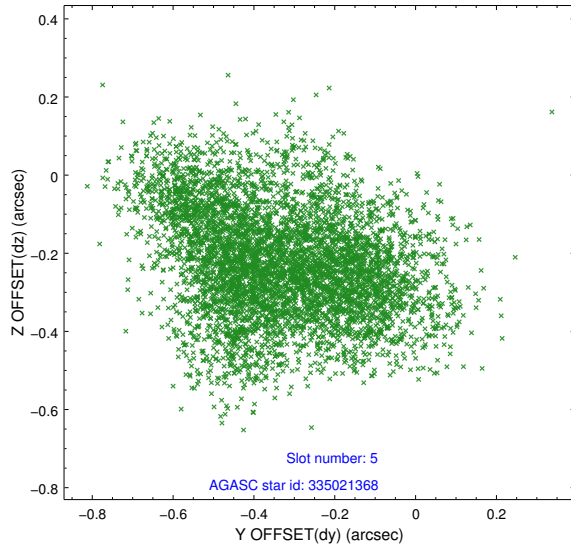
2.4.1 Slot 3



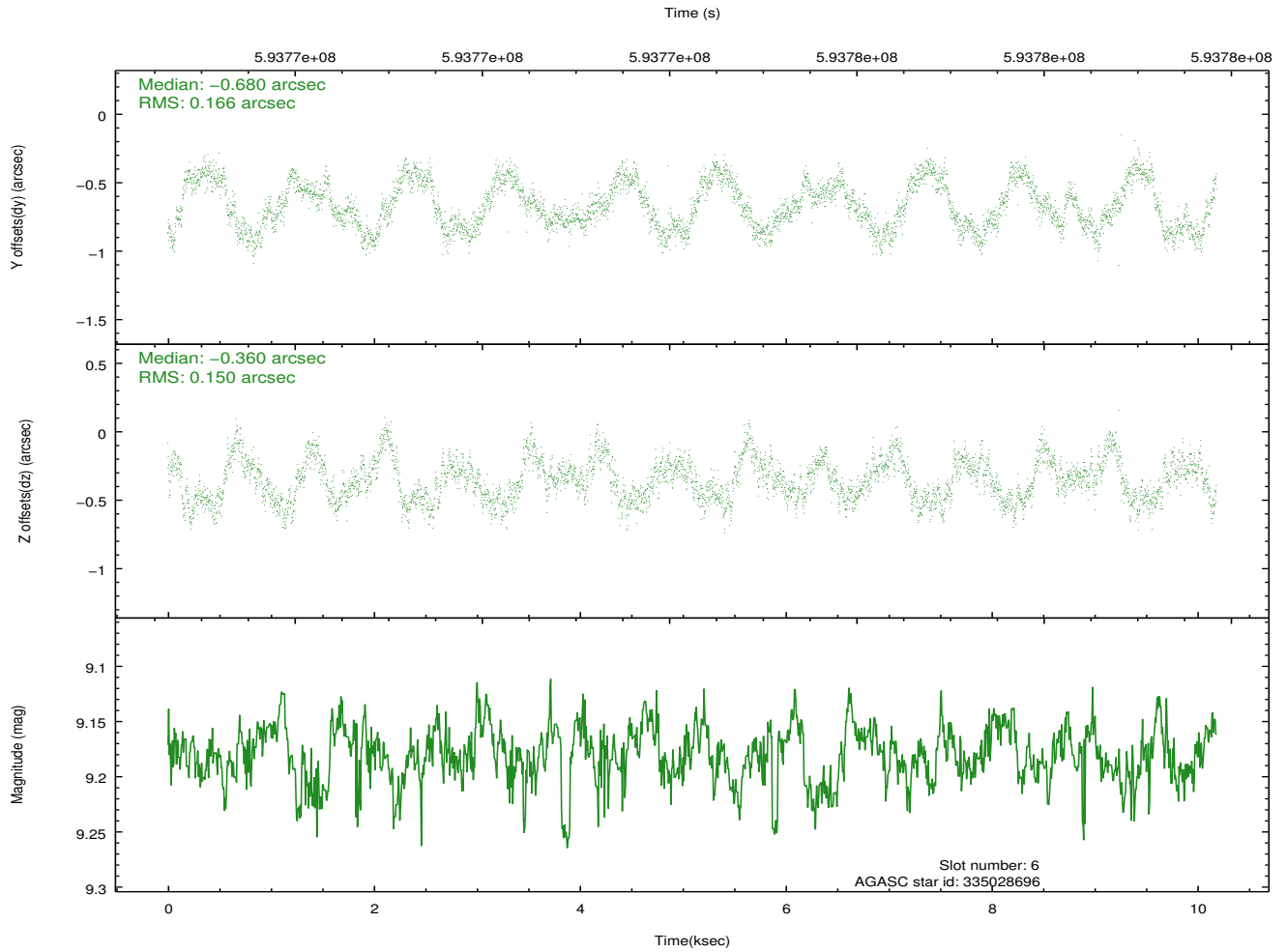
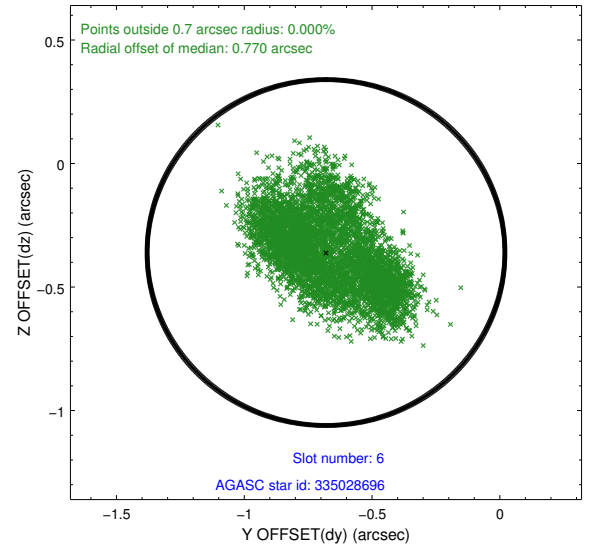
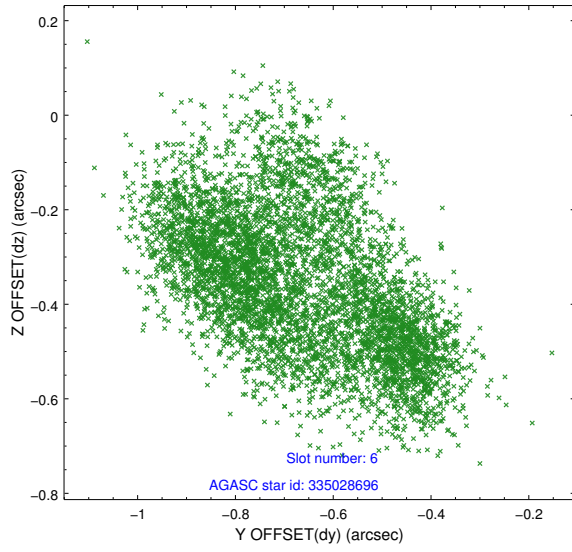
2.4.2 Slot 4



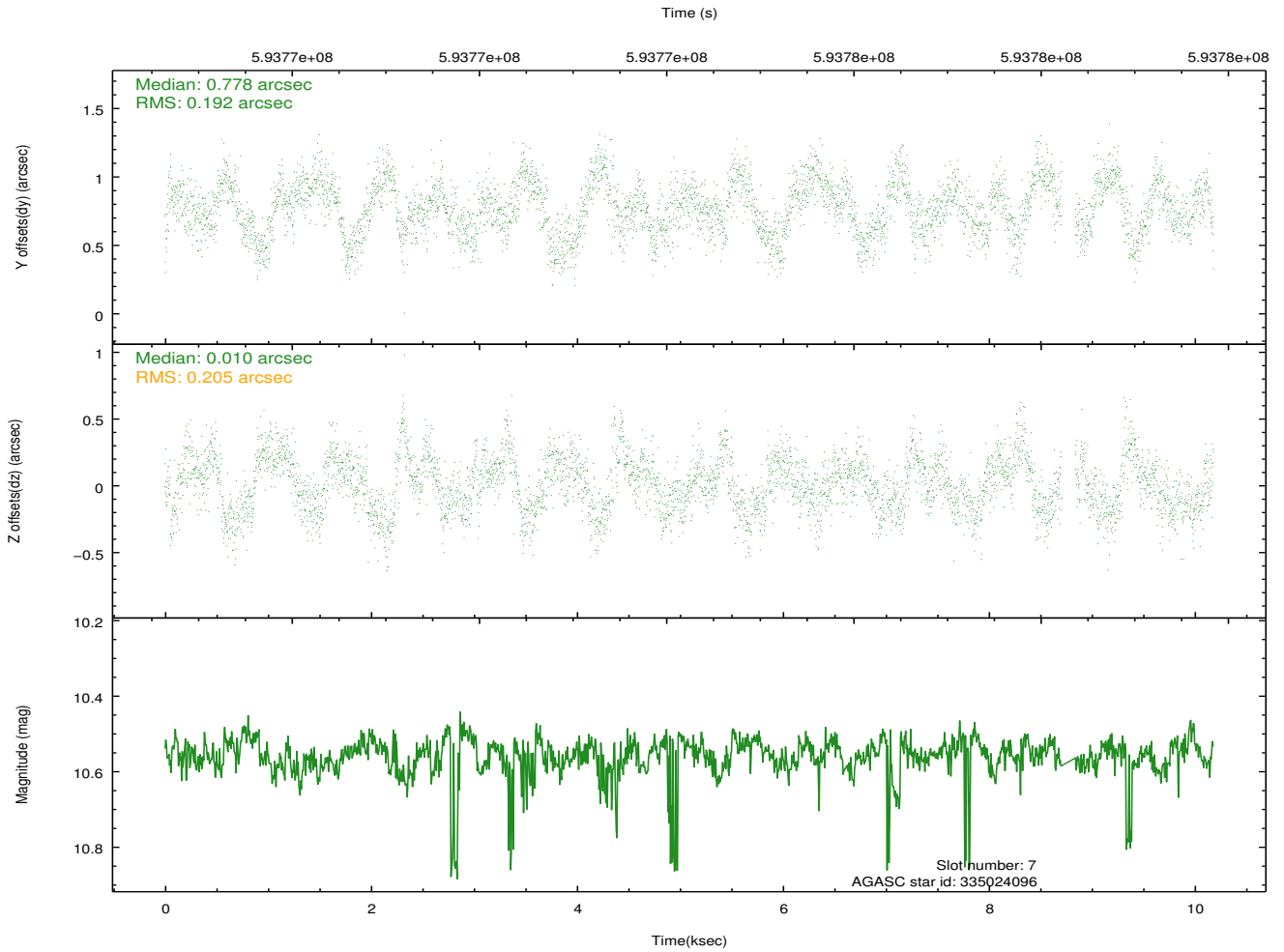
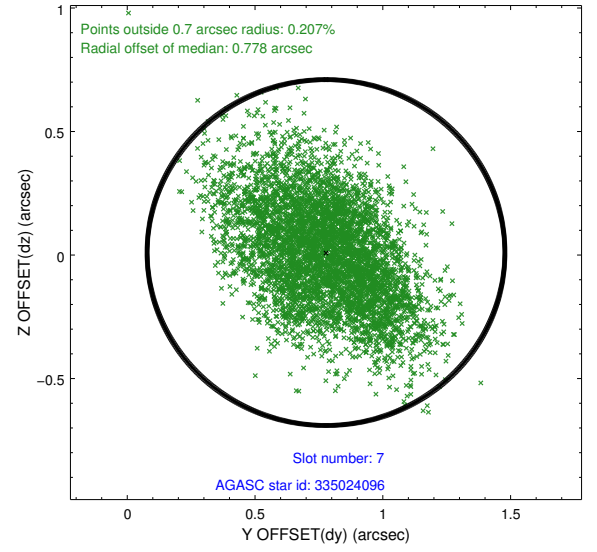
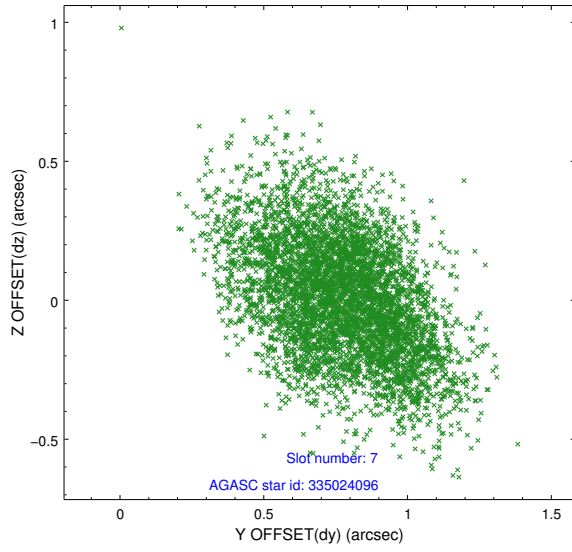
2.4.3 Slot 5



2.4.4 Slot 6

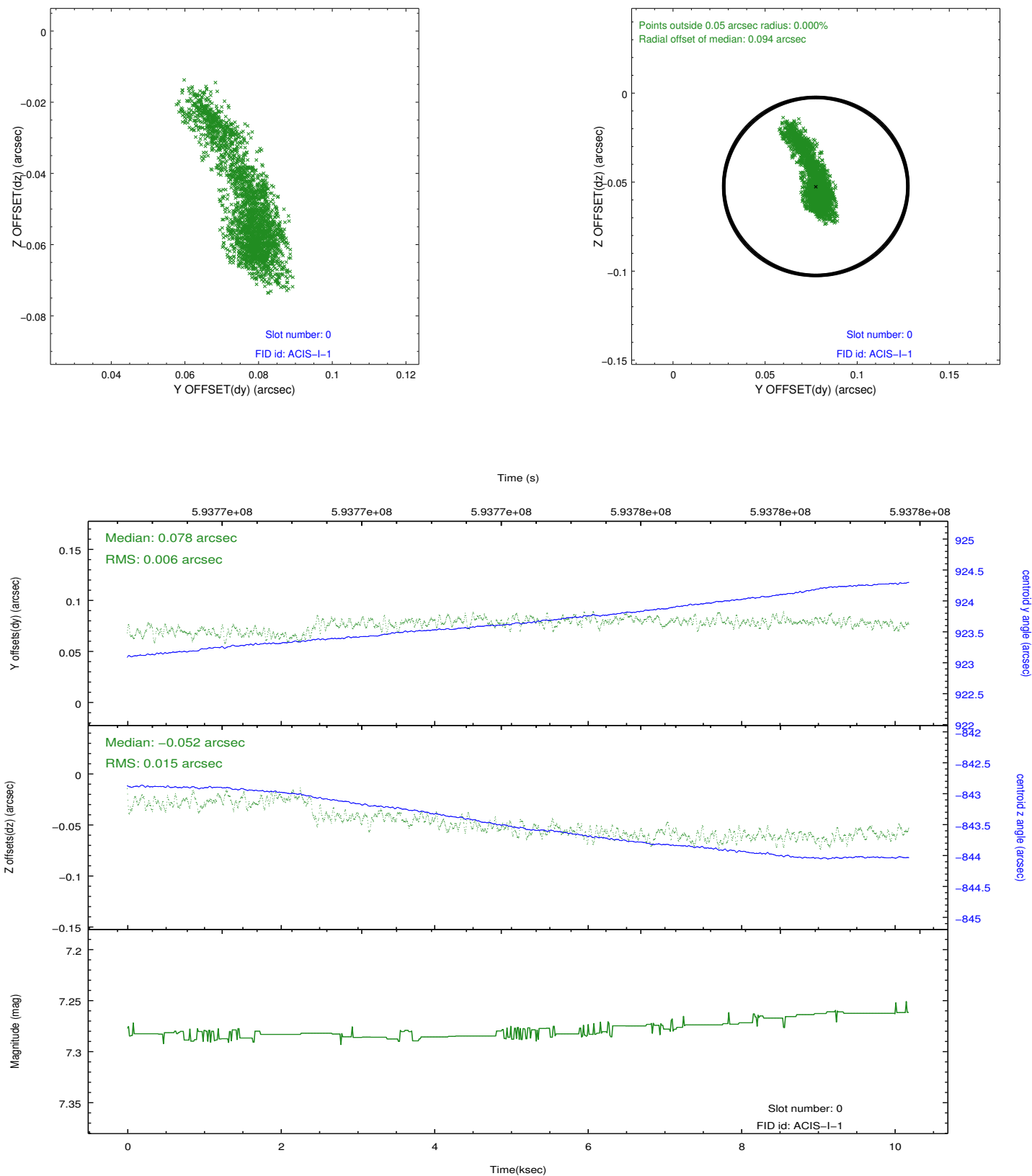


2.4.5 Slot 7

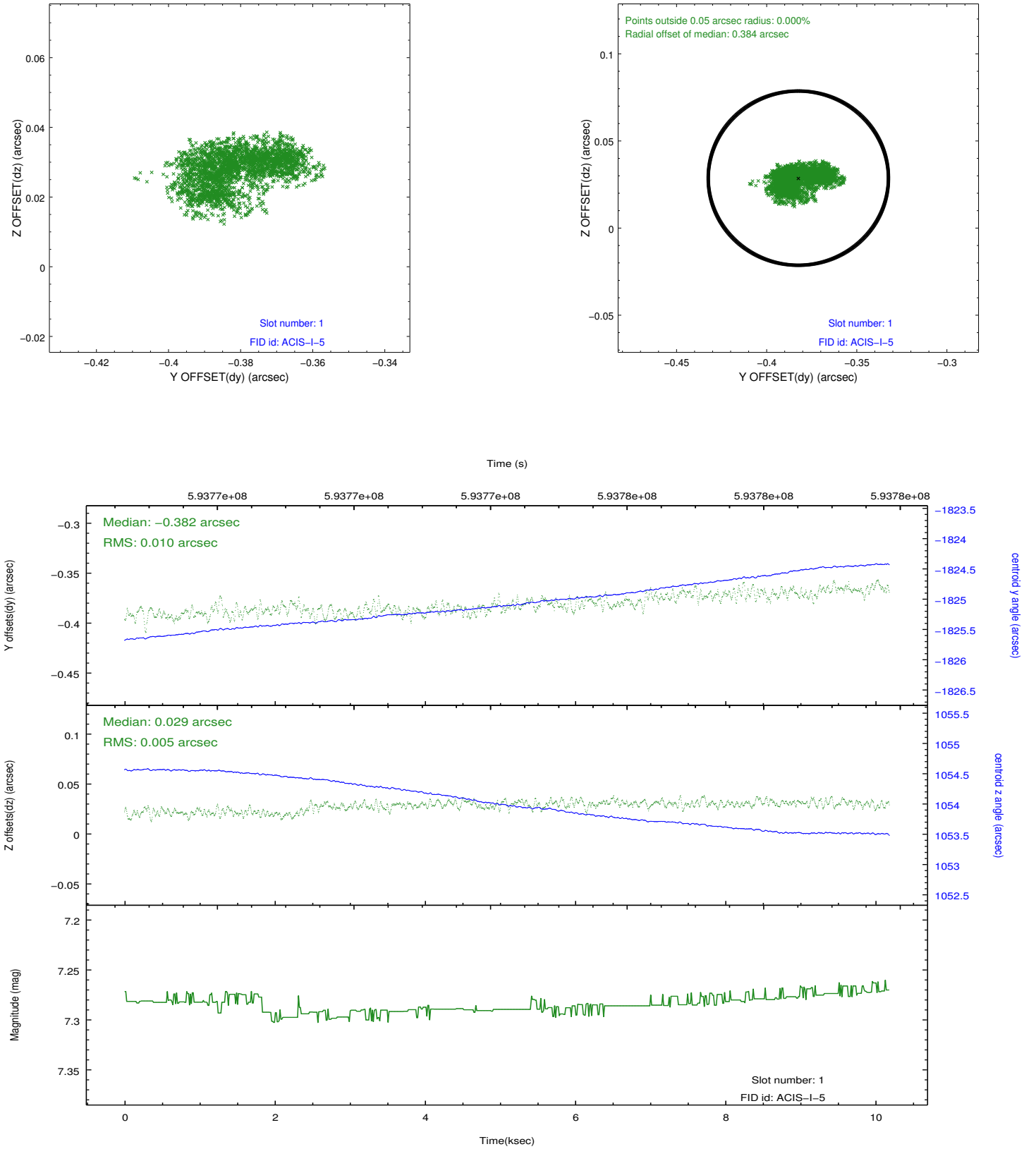


2.5 FID Slots

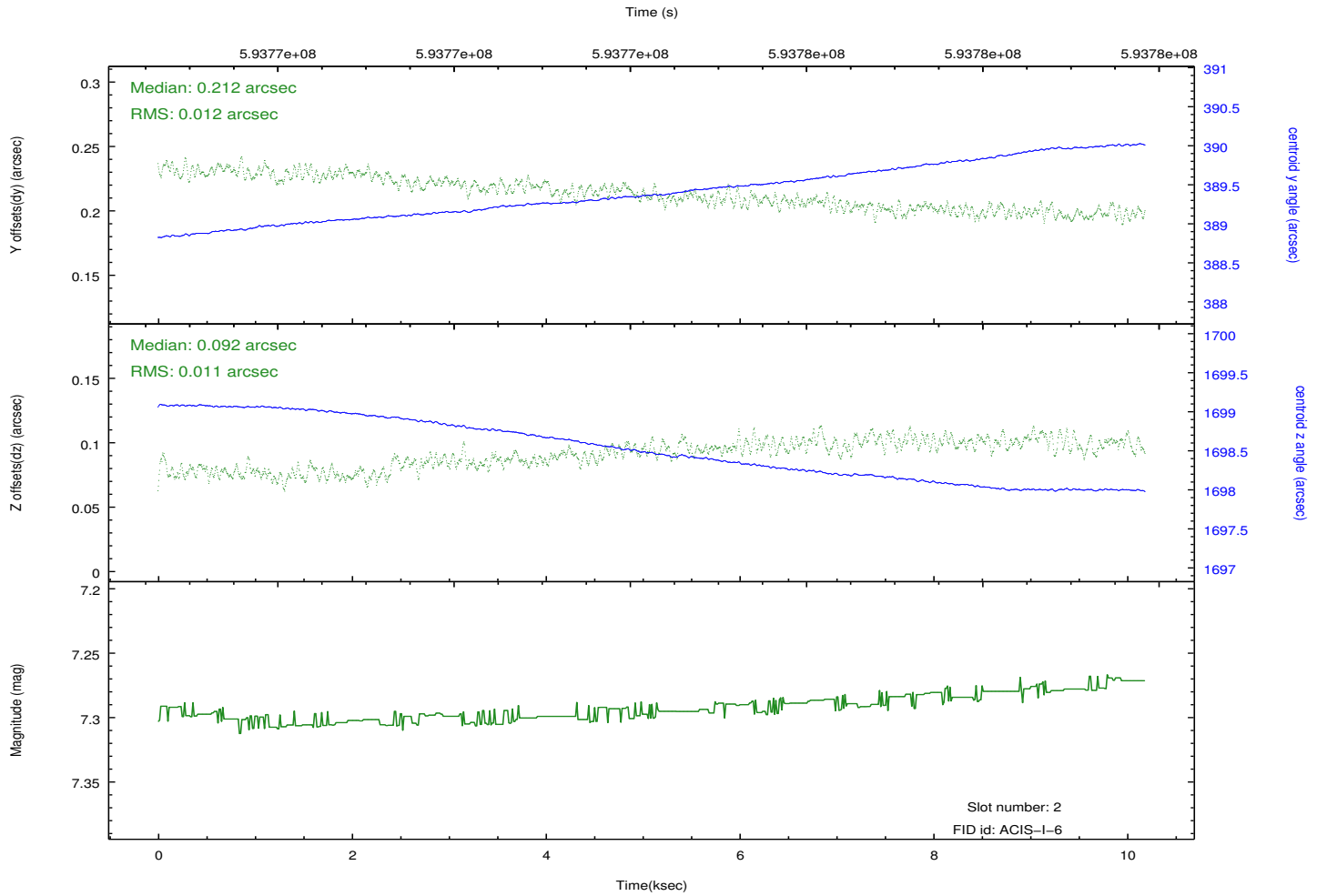
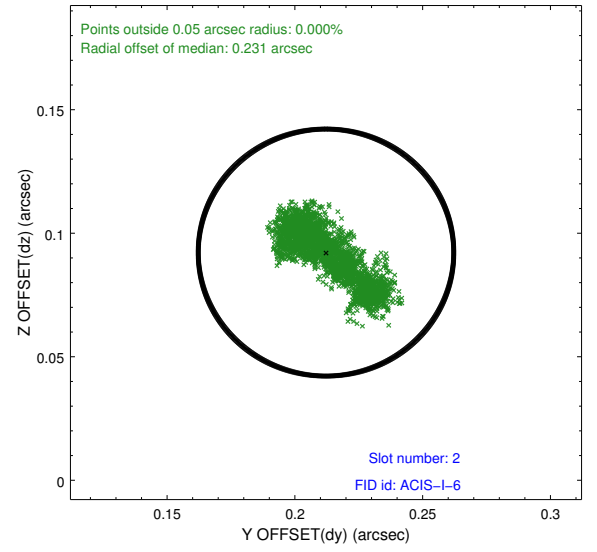
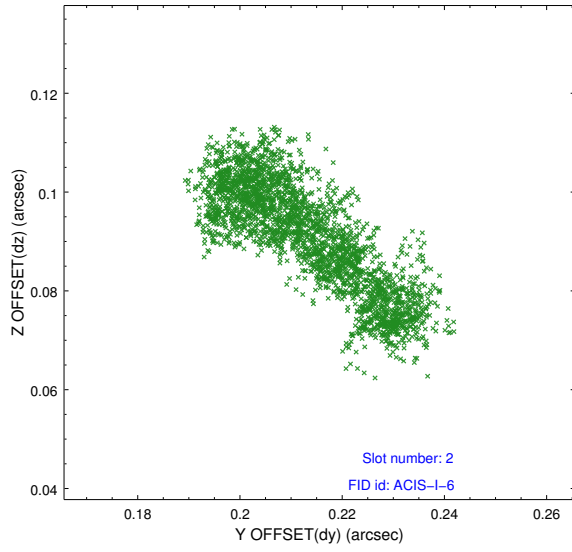
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068086612225

A.2 Comments