

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18472 - L2 Version 1
Chandra X-Ray Center

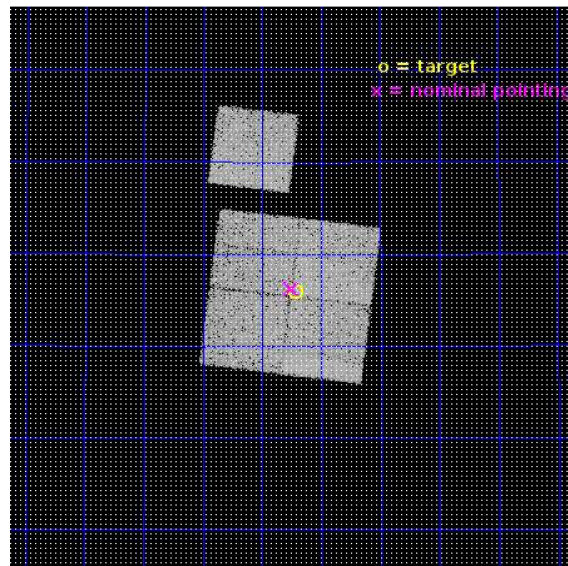
L2 Processing Date : Nov 13 2016

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

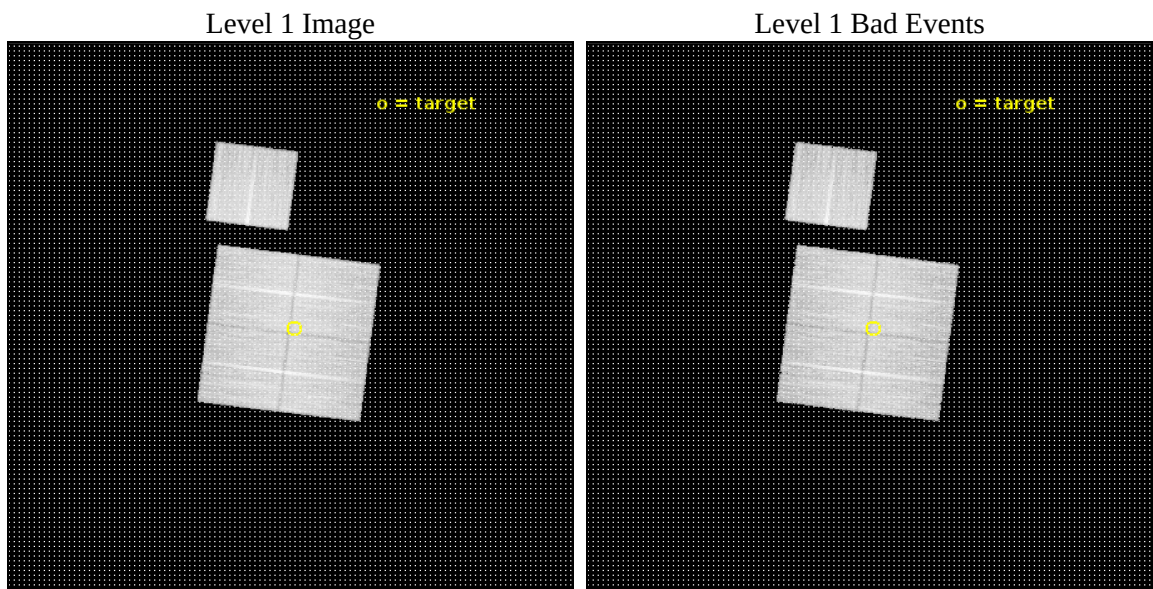
seq_num	901205	Sequence number
obs_id	18472	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.55421	Observer's specified target RA [deg]
dec_targ	34.432639	Observer's specified target Dec [deg]
ra_nom	217.56351958224	Nominal RA [deg]
dec_nom	34.437162401115	Nominal Dec [deg]
roll_nom	7.2034320120145	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24387.618237376	Sum of GTIs [s]
livetime	24068.976051202	Livetime [s]
ontime0	24393.900187731	Sum of GTIs [s]
ontime1	24390.759197593	Sum of GTIs [s]
ontime2	24393.900187731	Sum of GTIs [s]
ontime3	24387.618237376	Sum of GTIs [s]
ontime6	24393.900187731	Sum of GTIs [s]
l2events	79155	Number of level 2 events



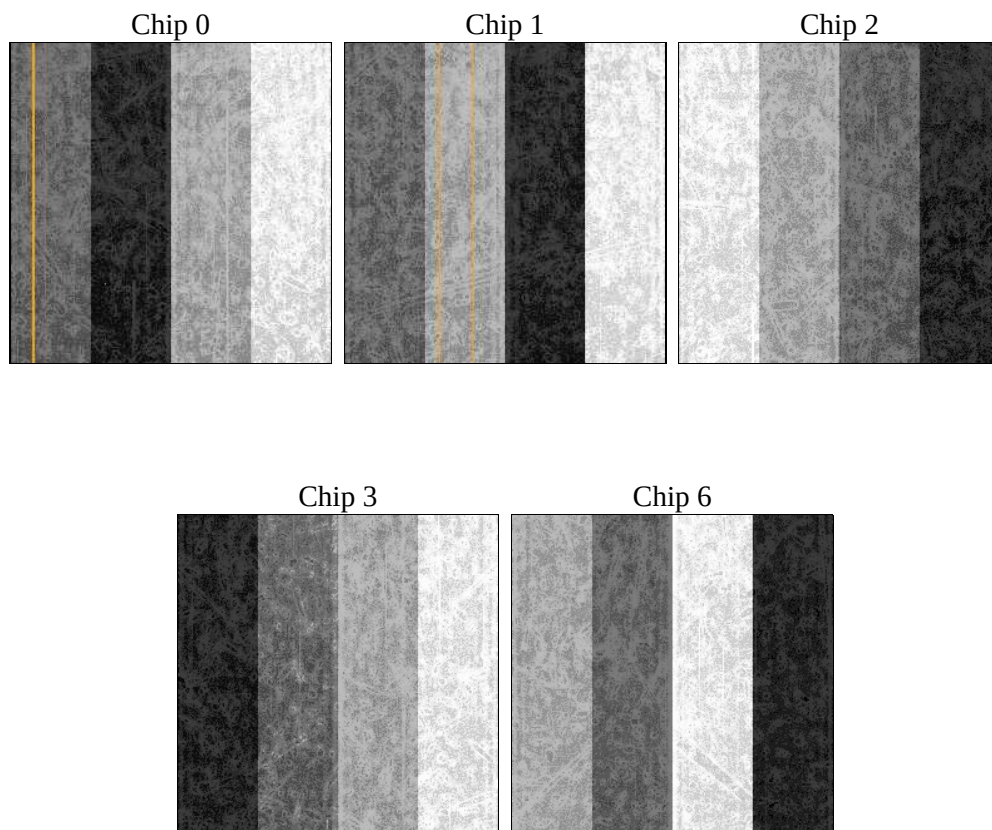
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24621.966000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	24387.618237376	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	24393.900187731	Sum of GTIs [s]
date	2016-11-13T14:59:05	Date and time of file creation	ontime1	24390.759197593	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24393.900187731	Sum of GTIs [s]
			ontime3	24387.618237376	Sum of GTIs [s]
			ontime6	24393.900187731	Sum of GTIs [s]
			l1events	818424	Number of level 1 events

2.1.4 Events

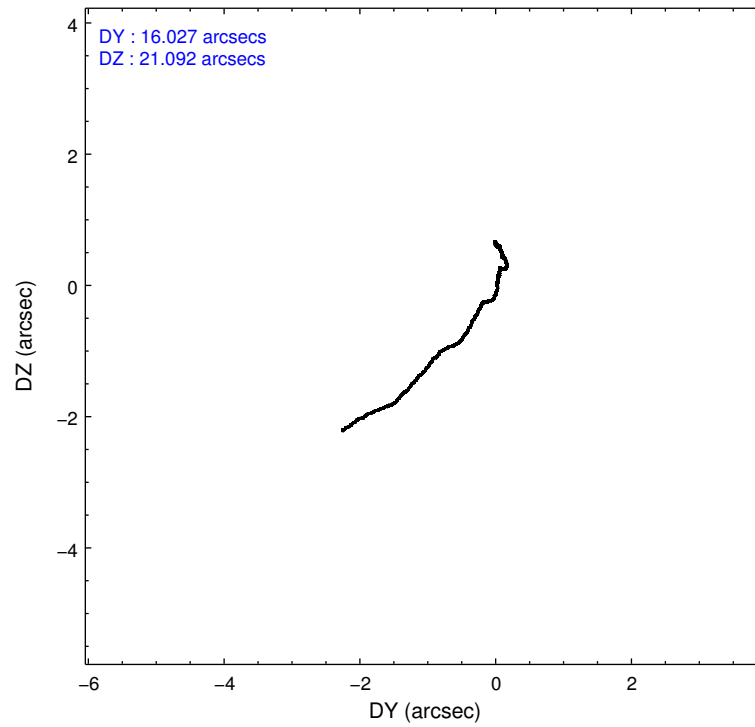
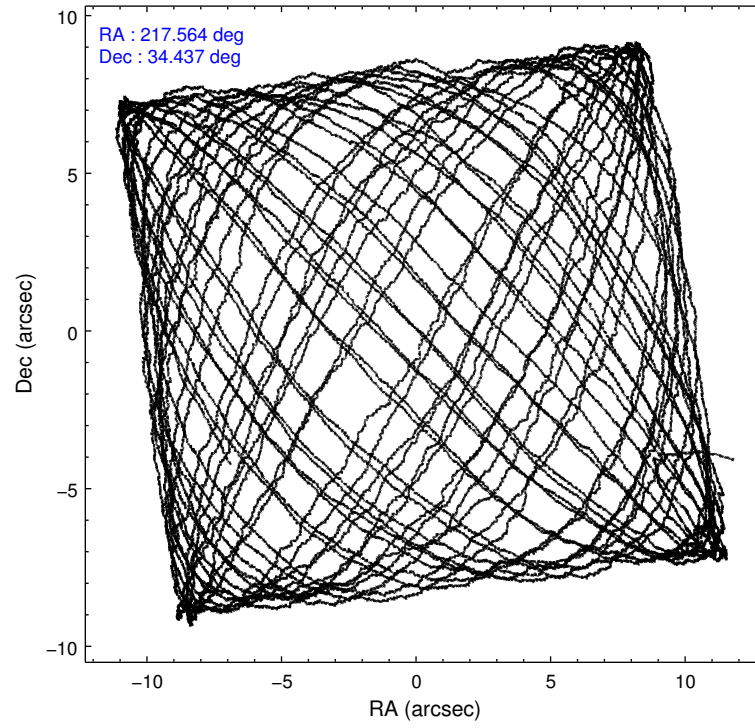
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	155523	156901	171716	163794	170490
rejected events	136899	136307	153392	145341	151658
rejected %	88%	86%	89%	88%	88%

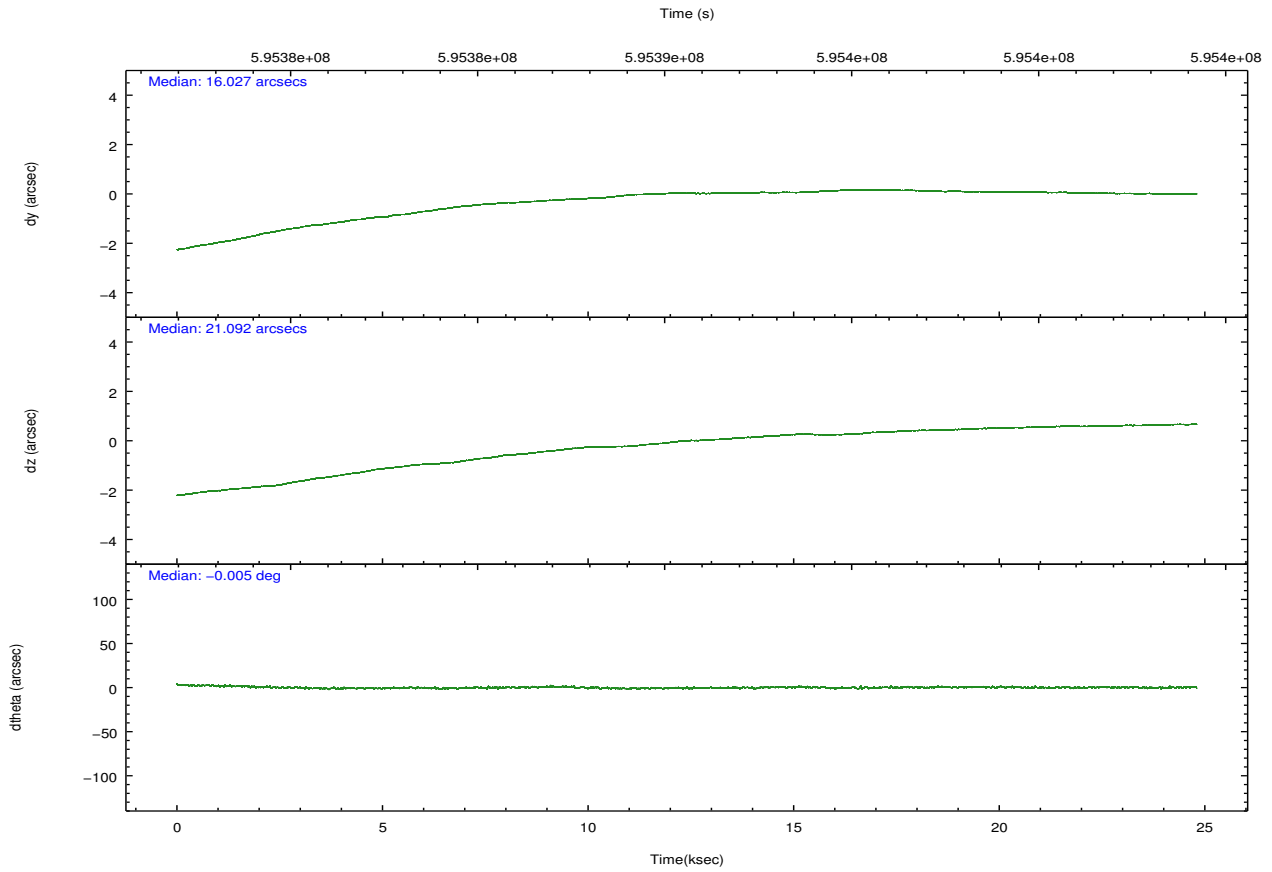
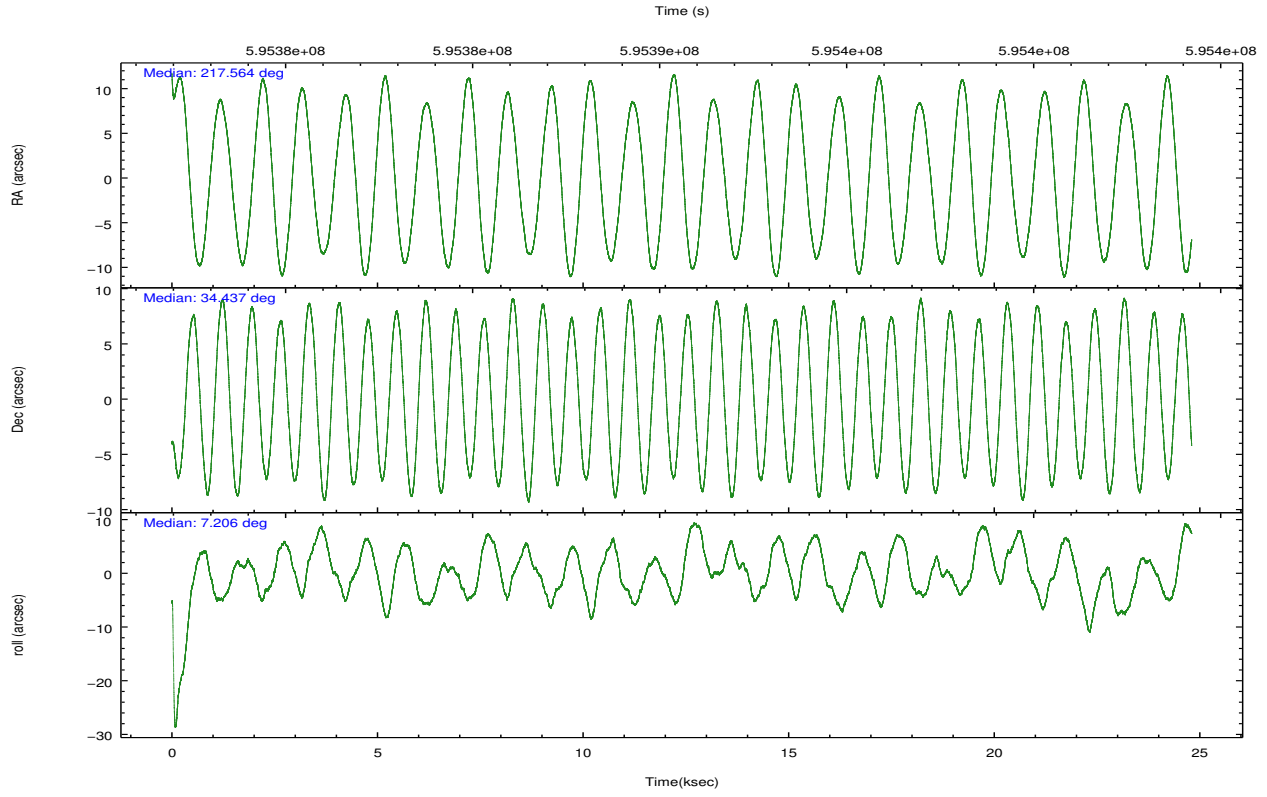
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6251	6976	6548	6984	6276
	4%	4%	3%	4%	3%
grade 1 events	79	80	107	95	76
	0%	0%	0%	0%	0%
grade 2 events	4818	5123	4748	4067	4332
	3%	3%	2%	2%	2%
grade 3 events	1900	2077	1691	1869	1951
	1%	1%	0%	1%	1%
grade 4 events	1841	1983	1768	1858	1856
	1%	1%	1%	1%	1%
grade 5 events	6897	7719	6361	8133	7741
	4%	4%	3%	4%	4%
grade 6 events	3818	4437	3570	3677	4419
	2%	2%	2%	2%	2%
grade 7 events	129919	128506	146923	137111	143839
	83%	81%	85%	83%	84%

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	217.536933	217.5635195822437	CCD I2 on	Y	Y
[deg] Pointing Dec	34.420399	34.4371624011152	CCD I3 on	Y	Y
[deg] Pointing Roll	7.009768	7.203432012014505	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)	595378387.184000	595377369.33096	CCD S5 on	N	N
Observation start date	2016-11-12T22:51:59	2016-11-12T22:36:09	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	595403009.184000	595403238.79495	On-chip summing requested	N	N
Observation end date	2016-11-13T05:42:21	2016-11-13T05:47:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



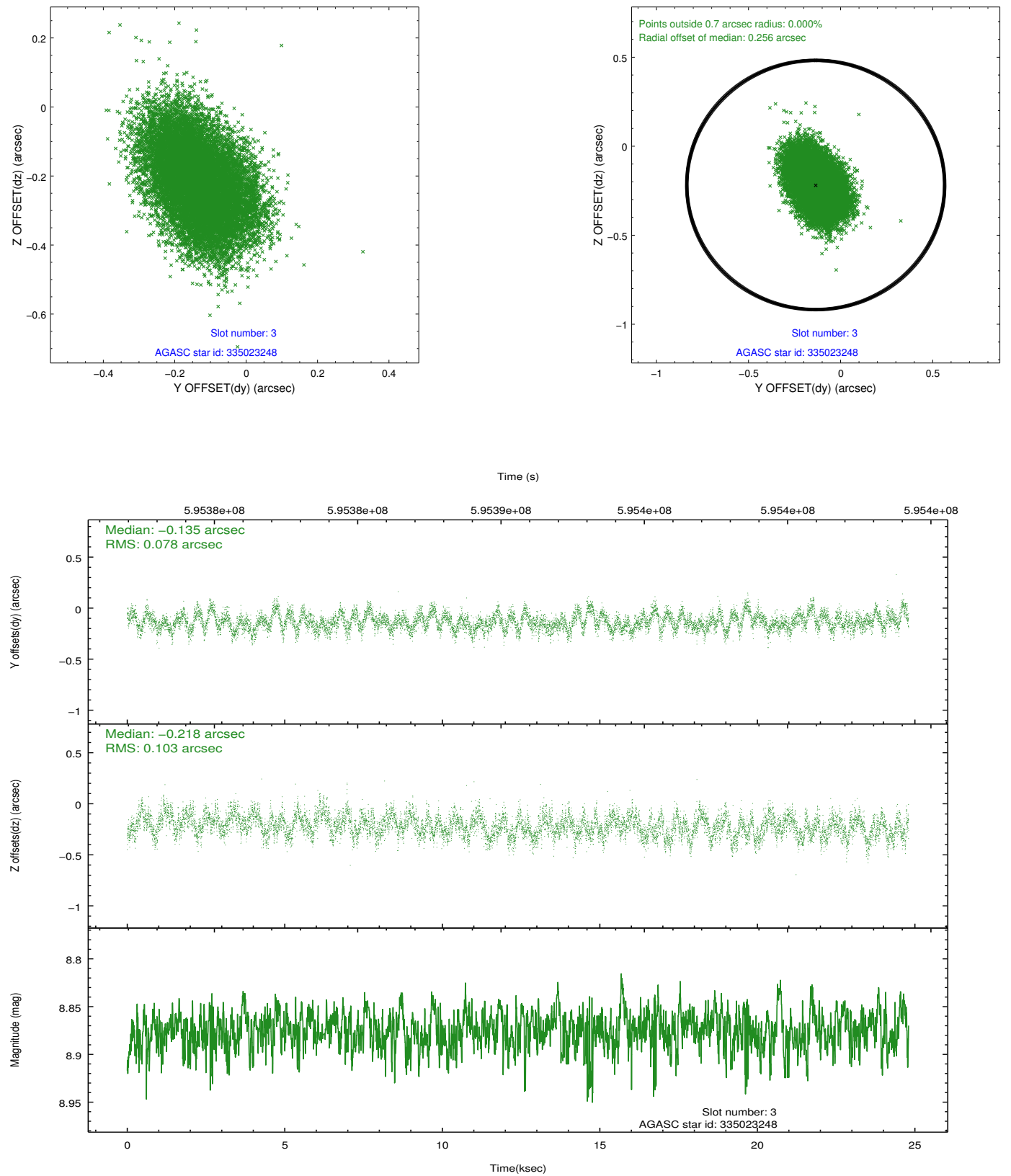


Slot Statistics

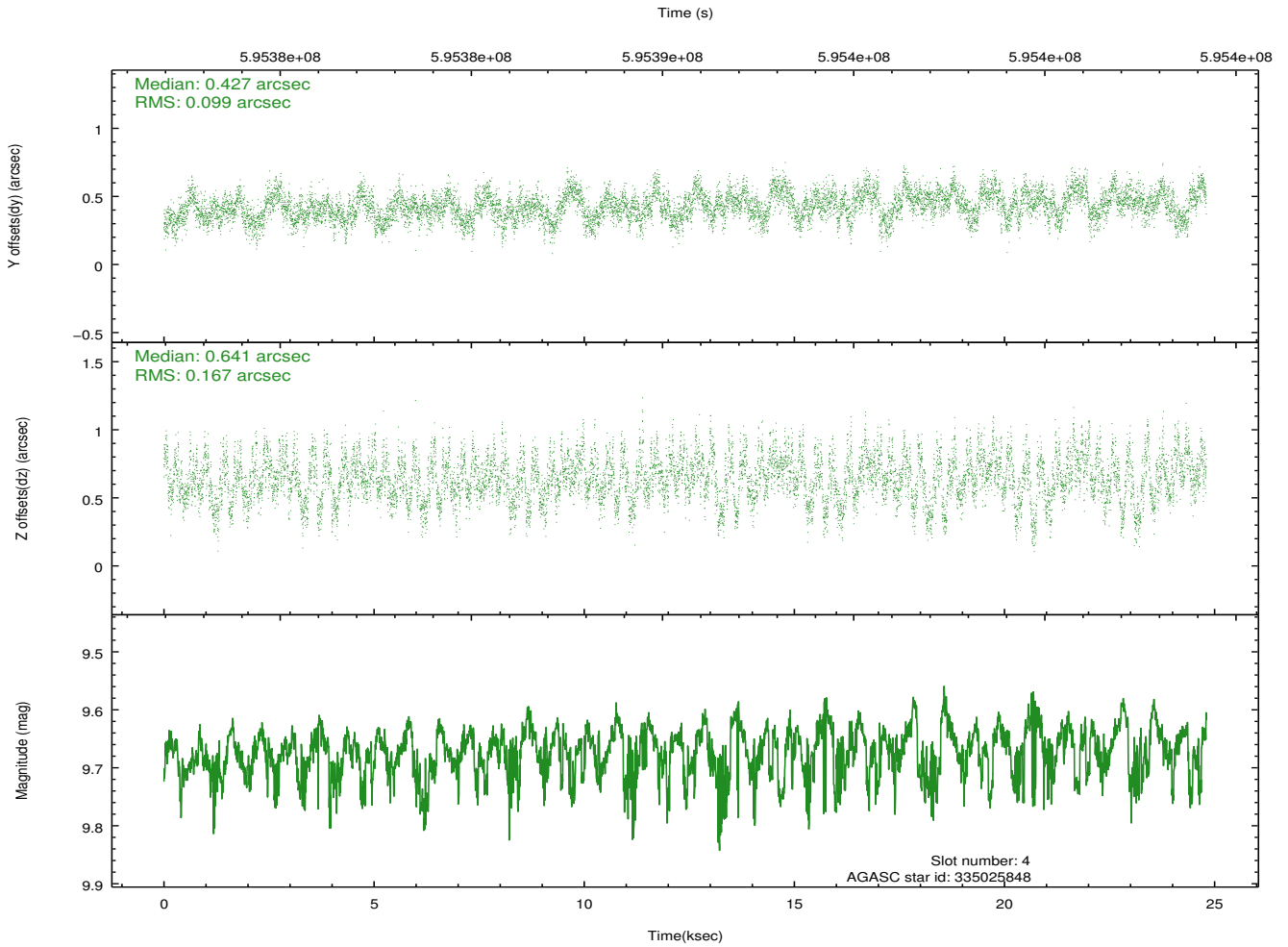
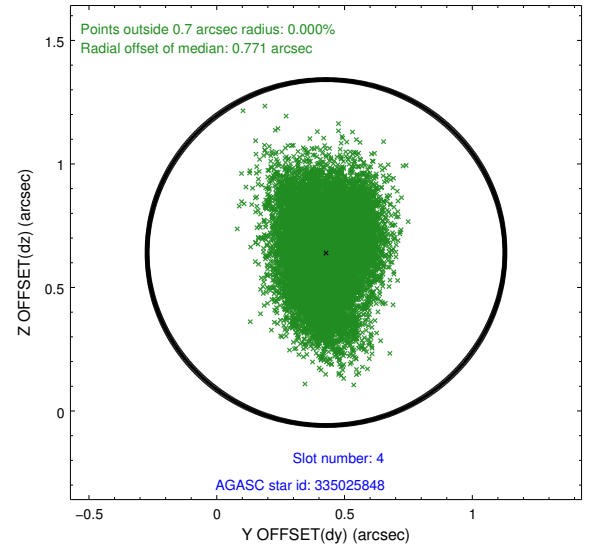
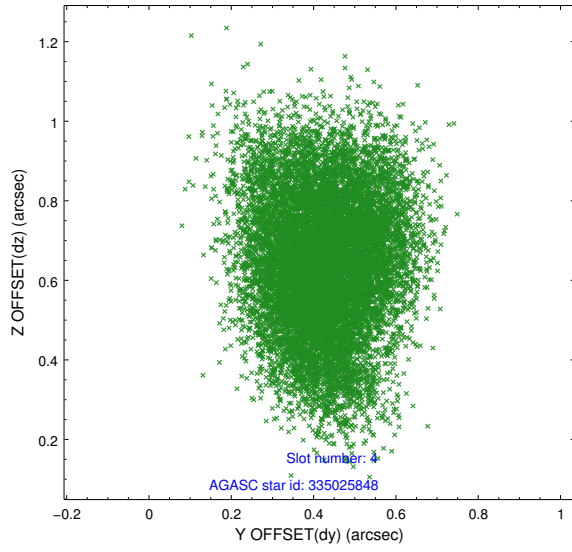
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.08	6050	-0.041	-0.099	0.032	0.115	0.000000	0.000000	923.79	-844.57
1	FID		ACIS-I-4	7.02	6048	0.330	0.112	0.030	0.078	0.000000	0.000000	2144.18	1055.41
2	FID		ACIS-I-5	7.07	6048	-0.387	0.057	0.016	0.038	0.000000	0.000000	-1824.49	1053.15
3	GUIDE	used	335023248	8.87	12090	-0.135	-0.218	0.139	0.223	217.634832	34.944512	516.78	1837.40
4	GUIDE	used	335025848	9.67	12085	0.427	0.641	0.205	0.336	217.530531	33.778292	-300.94	-2291.12
5	GUIDE	used	335028696	9.16	12095	-0.475	0.411	0.165	0.279	217.260519	33.844112	-1074.16	-1956.85
6	GUIDE	used	335030384	8.80	12092	0.365	-0.175	0.103	0.176	216.806407	34.722197	-2011.76	1349.72
7	GUIDE	used	335417968	9.36	12094	-0.184	-0.667	0.163	0.263	217.358149	35.055285	-244.42	2332.77

2.4 Star Slots

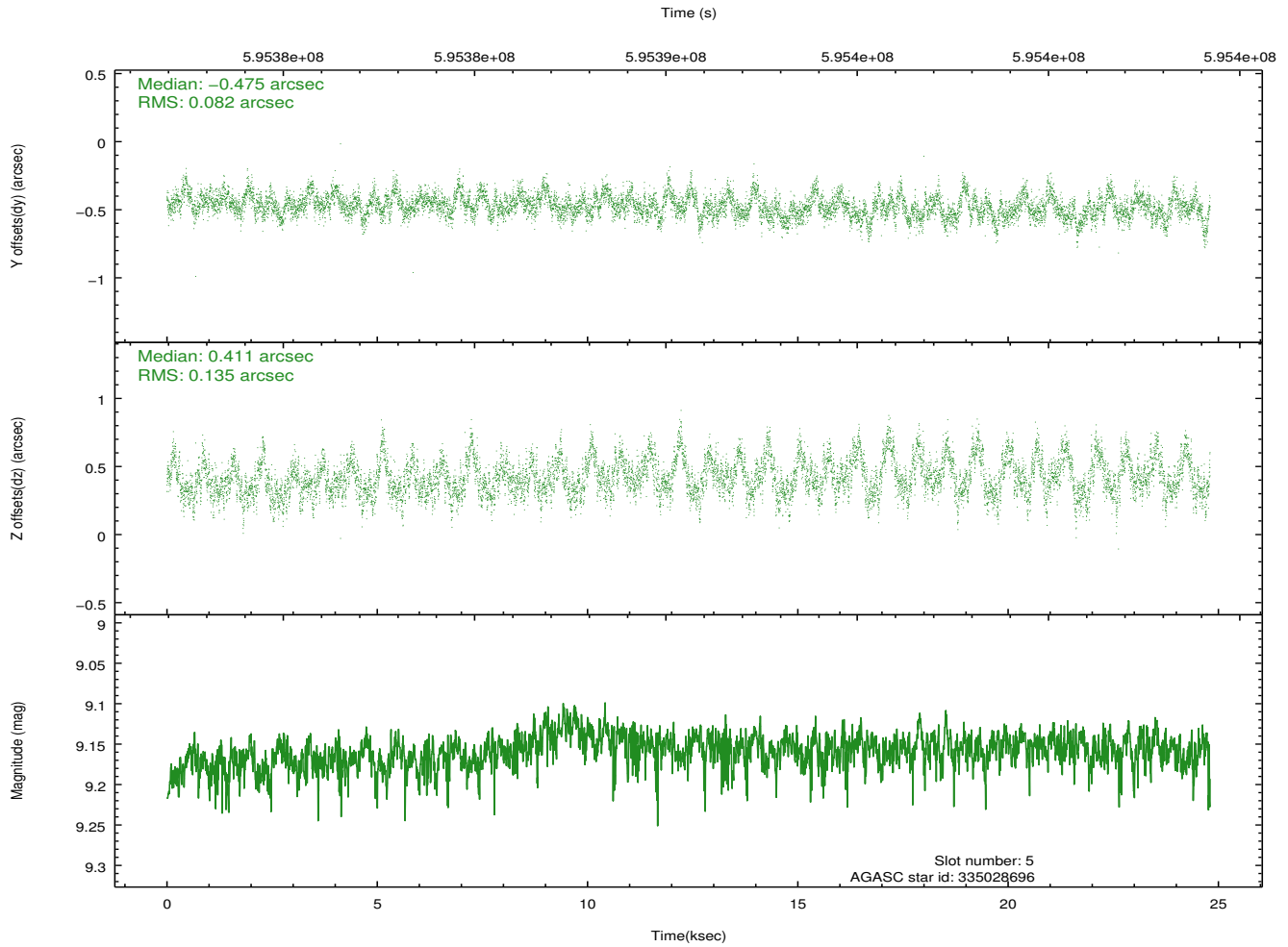
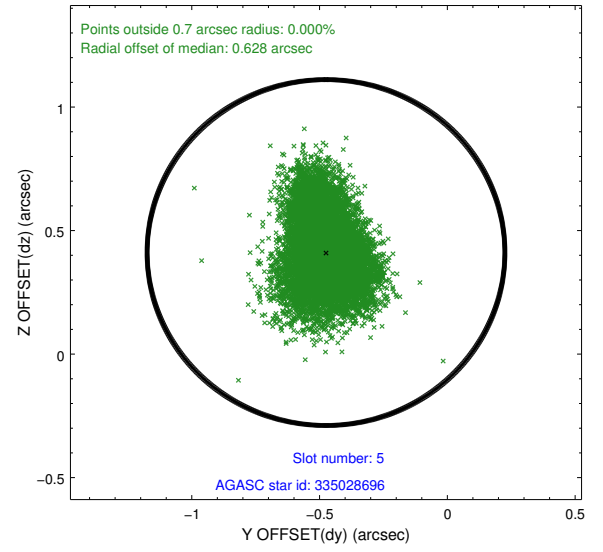
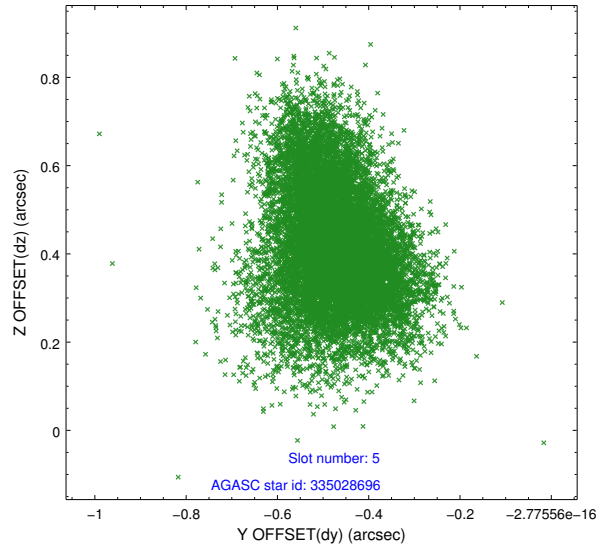
2.4.1 Slot 3



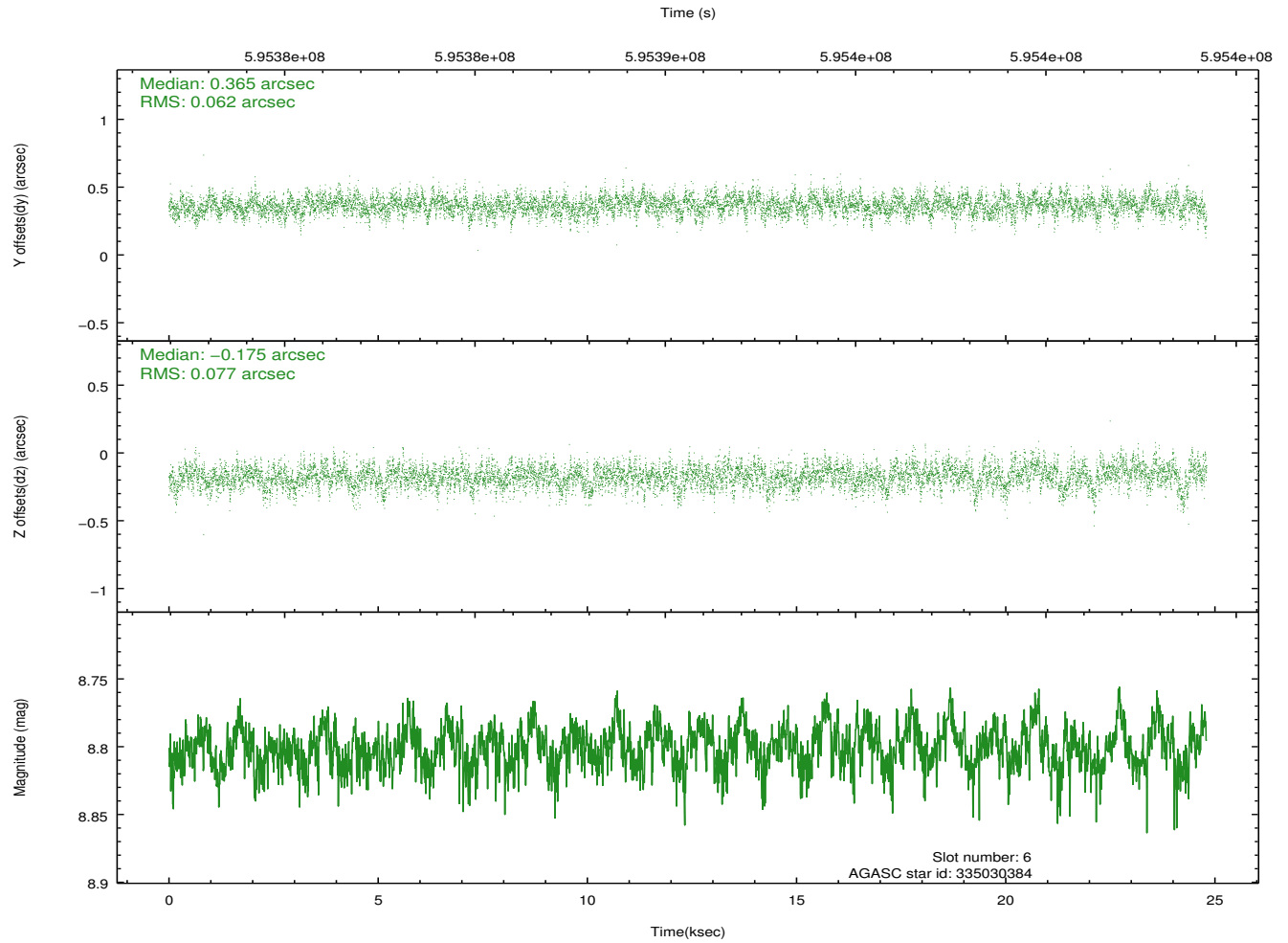
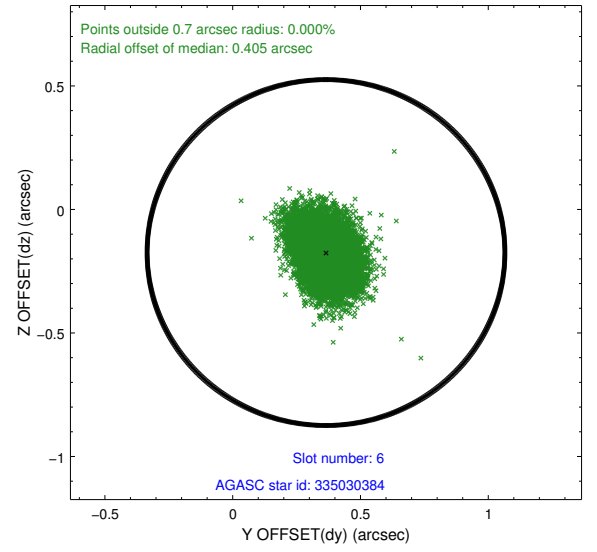
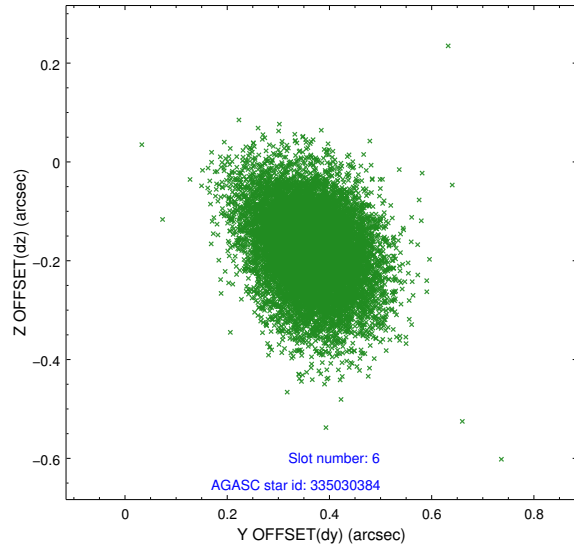
2.4.2 Slot 4



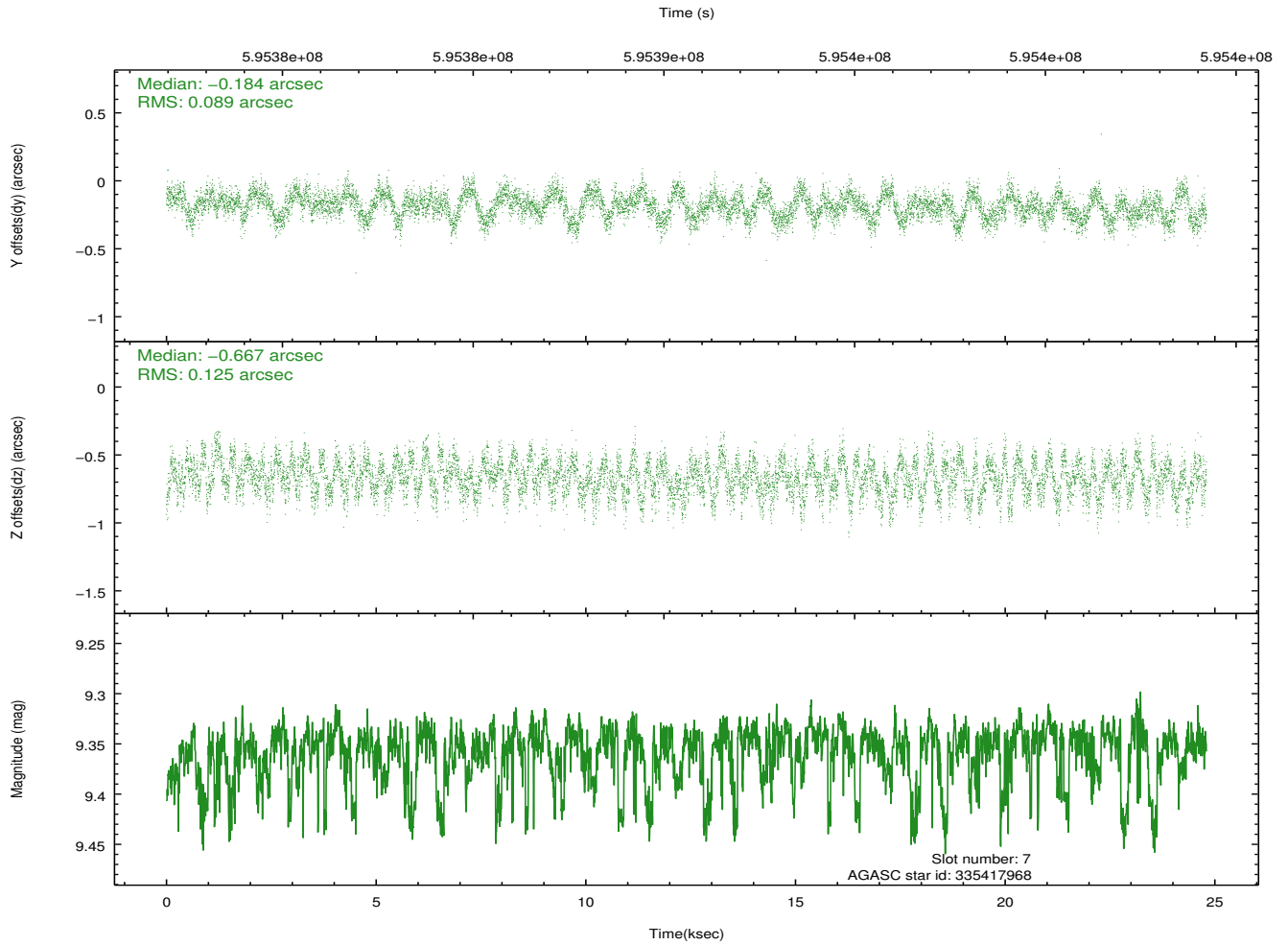
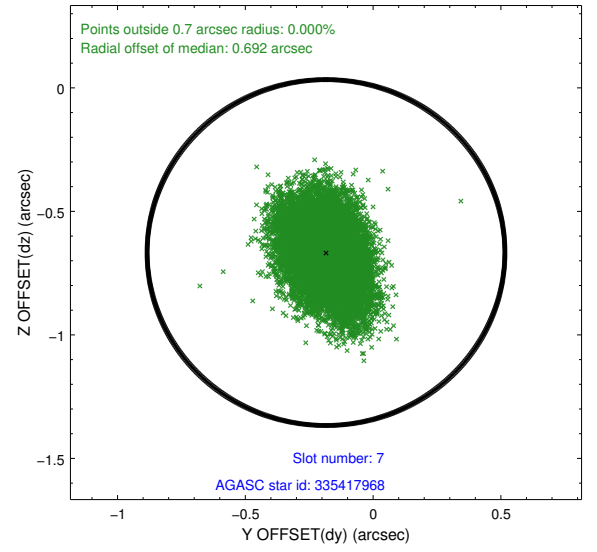
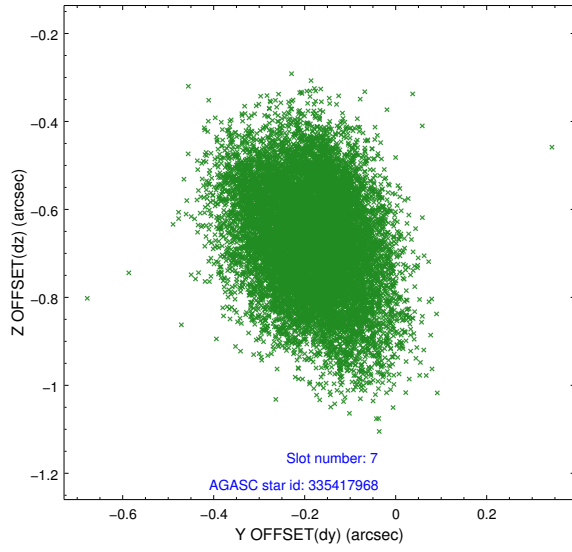
2.4.3 Slot 5



2.4.4 Slot 6

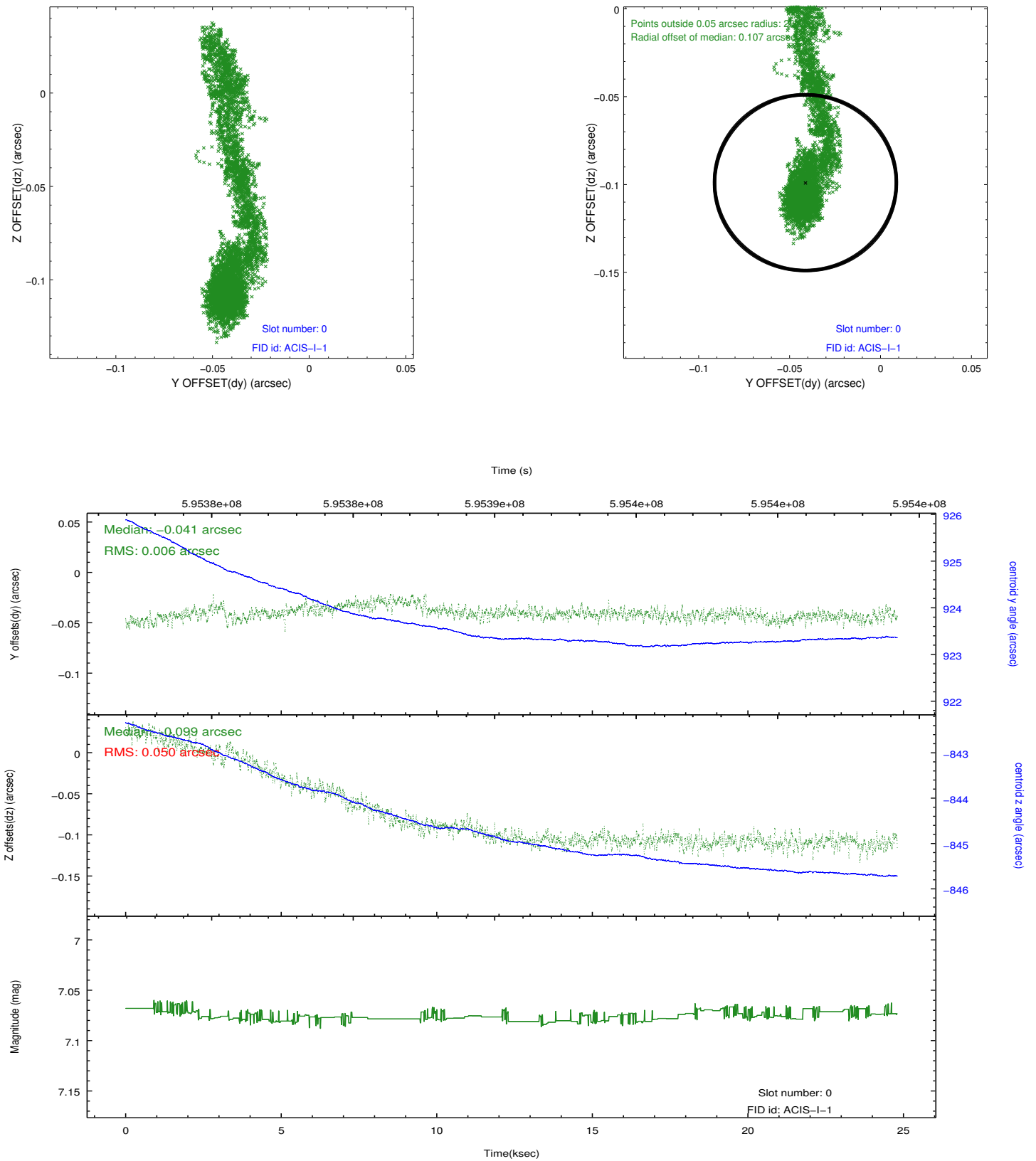


2.4.5 Slot 7

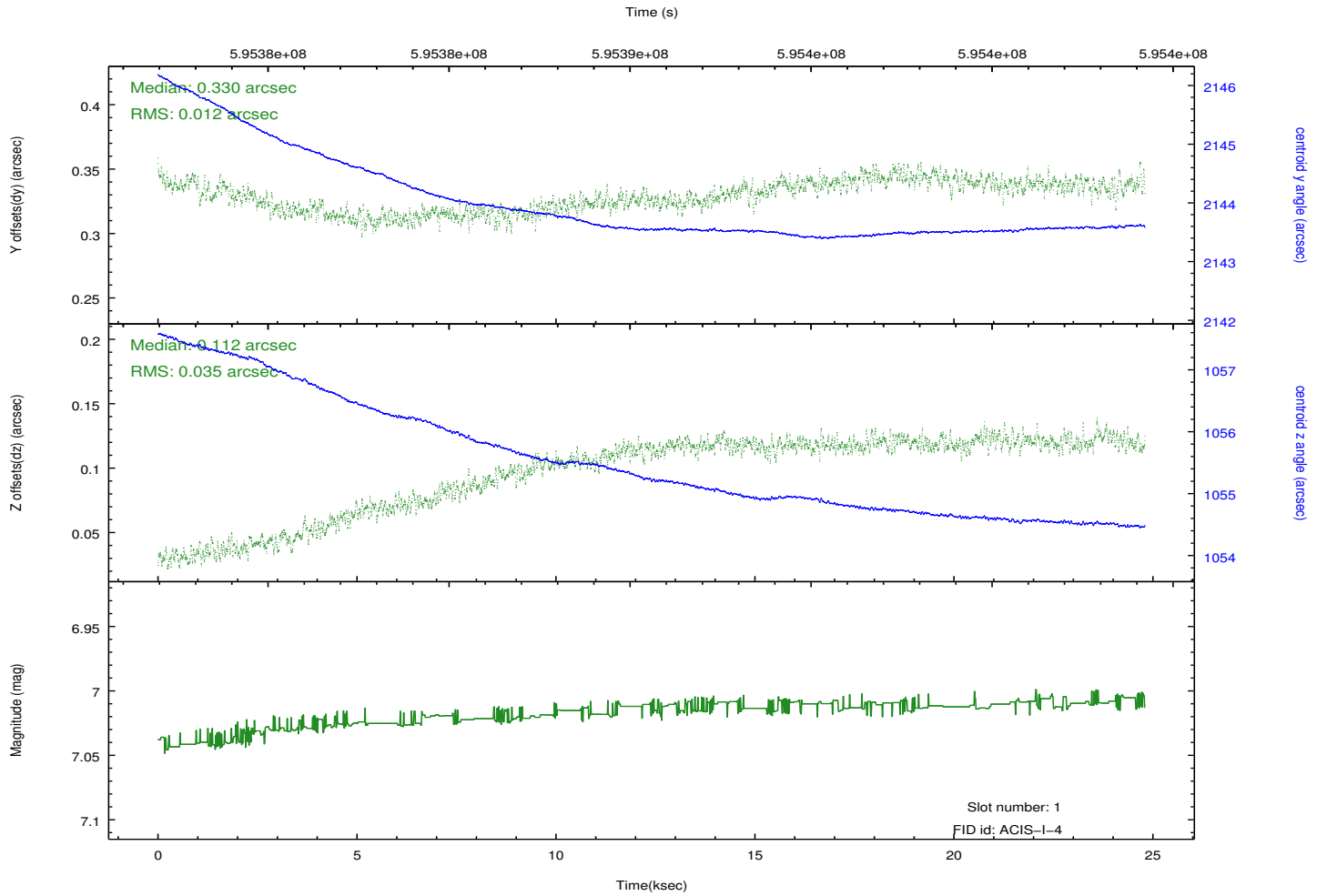
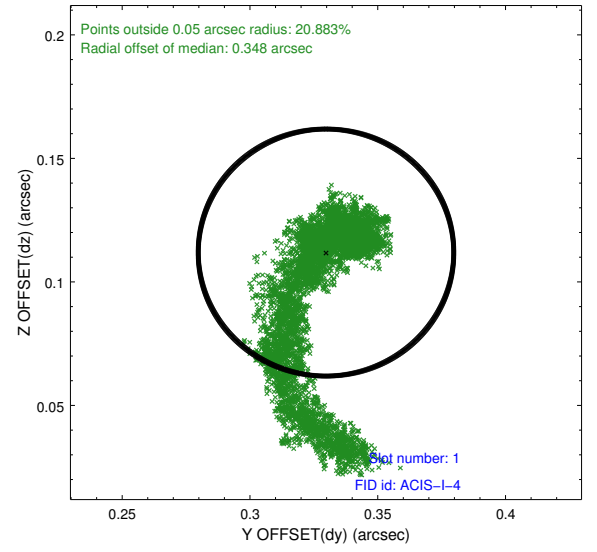
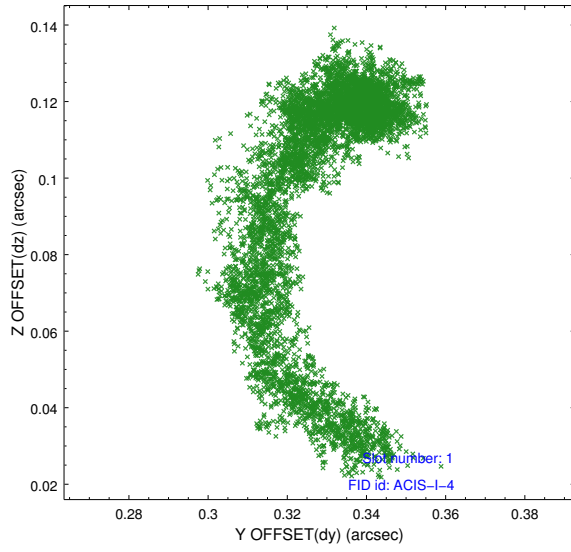


2.5 FID Slots

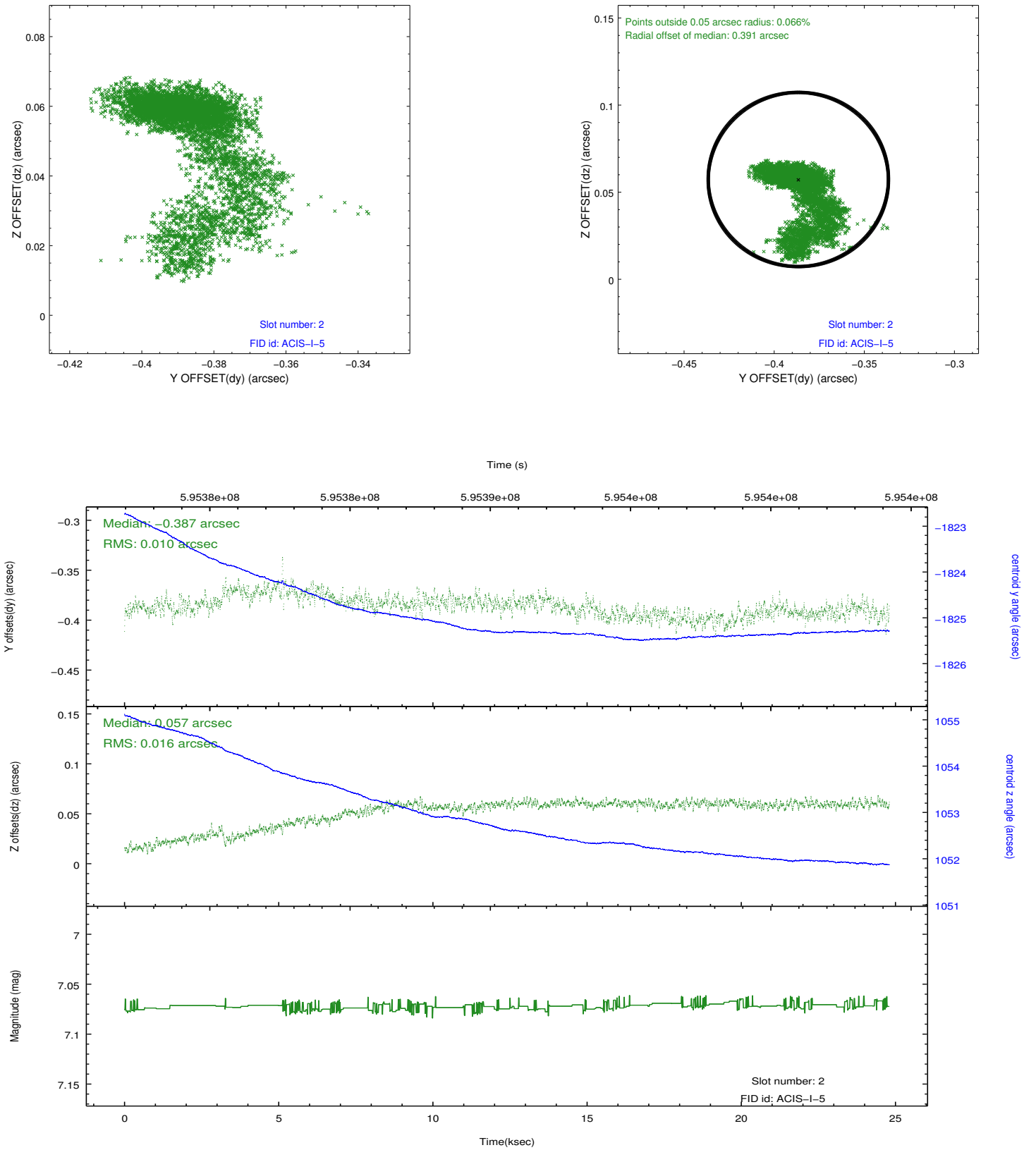
2.5.1 Slot 0



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)	2016.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.387618237376

A.2 Comments

Optional chip S3 was dropped.