

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18279 - L2 Version 1
Chandra X-Ray Center

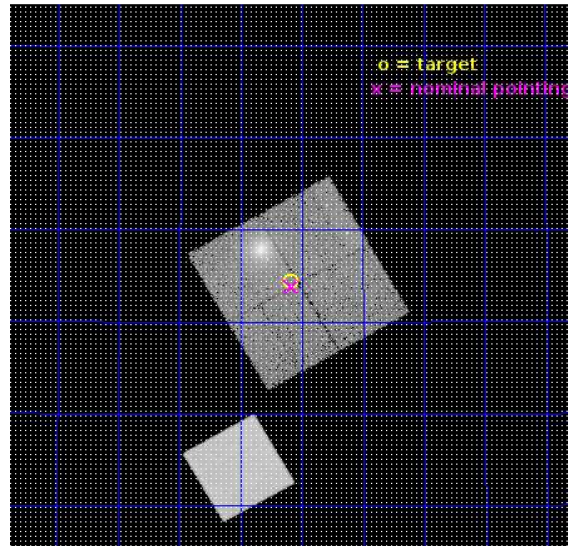
L2 Processing Date : Feb 9 2017

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

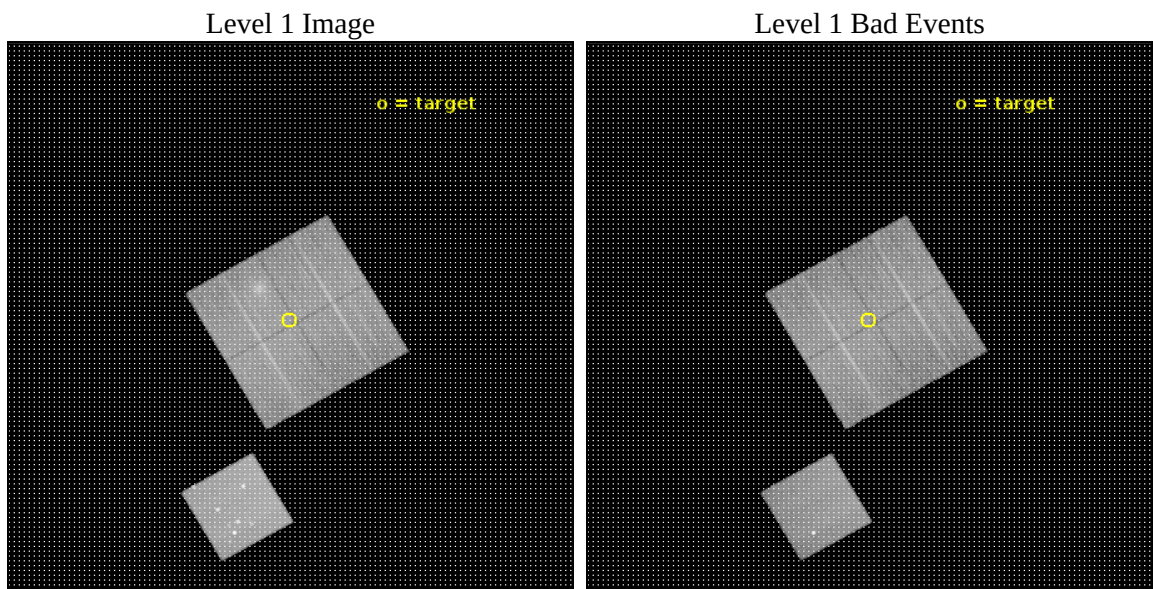
seq_num	801597	Sequence number
obs_id	18279	Observation id
title	Mapping an unusually Relaxed Non-Cool-Core Cluster out to the Viral Radius	Proposal title
observer	Yuanyuan Su	Principal investigator
object	Abell 586	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.0225	Observer's specified target RA [deg]
dec_targ	31.57375	Observer's specified target Dec [deg]
ra_nom	113.0212697063	Nominal RA [deg]
dec_nom	31.563897350245	Nominal Dec [deg]
roll_nom	240.20933832627	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26061.700200558	Sum of GTIs [s]
livetime	25721.184901093	Livetime [s]
ontime0	26061.700200558	Sum of GTIs [s]
ontime1	26061.700200558	Sum of GTIs [s]
ontime2	26061.700200558	Sum of GTIs [s]
ontime3	26061.700200558	Sum of GTIs [s]
ontime5	26061.700200558	Sum of GTIs [s]
l2events	223998	Number of level 2 events



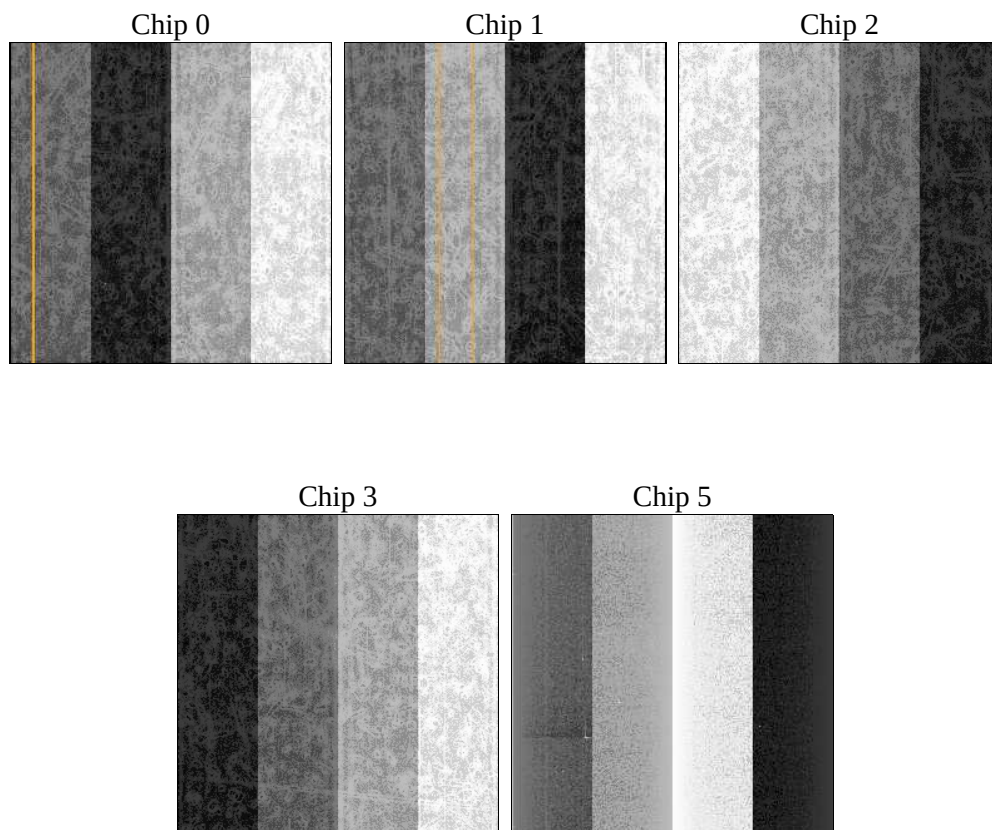
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	26061.700200558	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	26061.700200558	Sum of GTIs [s]
date	2017-02-10T00:57:08	Date and time of file creation	ontime1	26061.700200558	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26061.700200558	Sum of GTIs [s]
			ontime3	26061.700200558	Sum of GTIs [s]
			ontime5	26061.700200558	Sum of GTIs [s]
			l1events	1053251	Number of level 1 events

2.1.4 Events

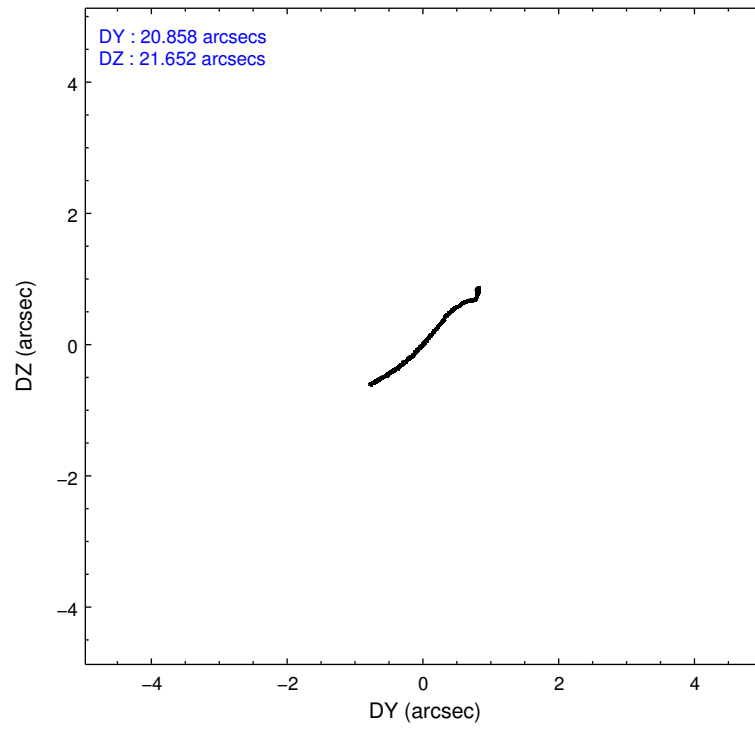
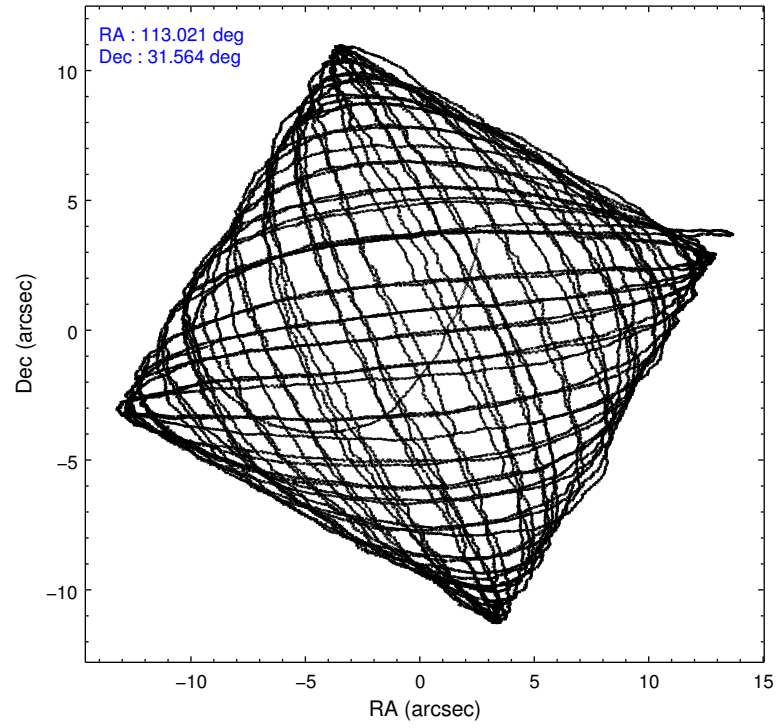
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
level 1 events	168279	177163	186134	199587	322088
rejected events	147600	152753	166076	163175	161262
rejected %	87%	86%	89%	81%	50%

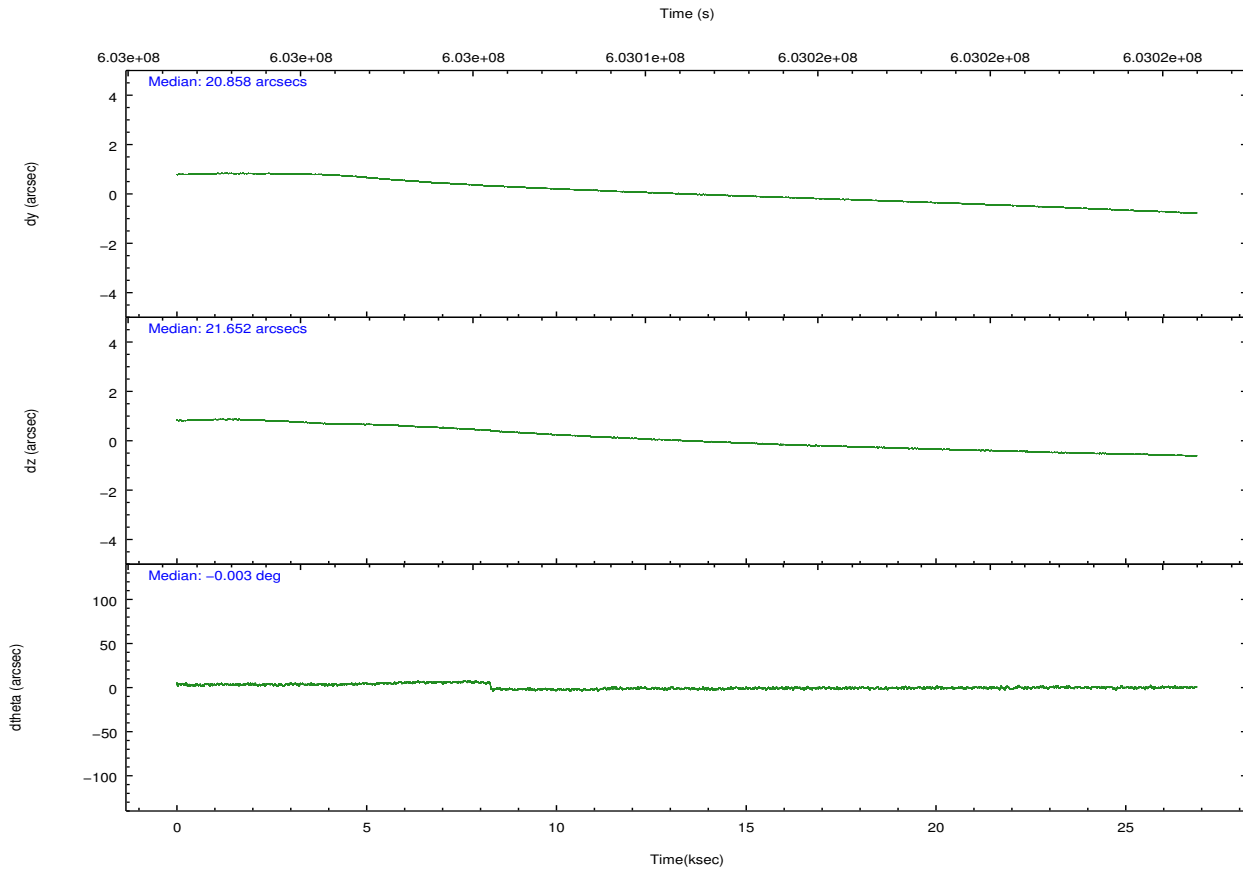
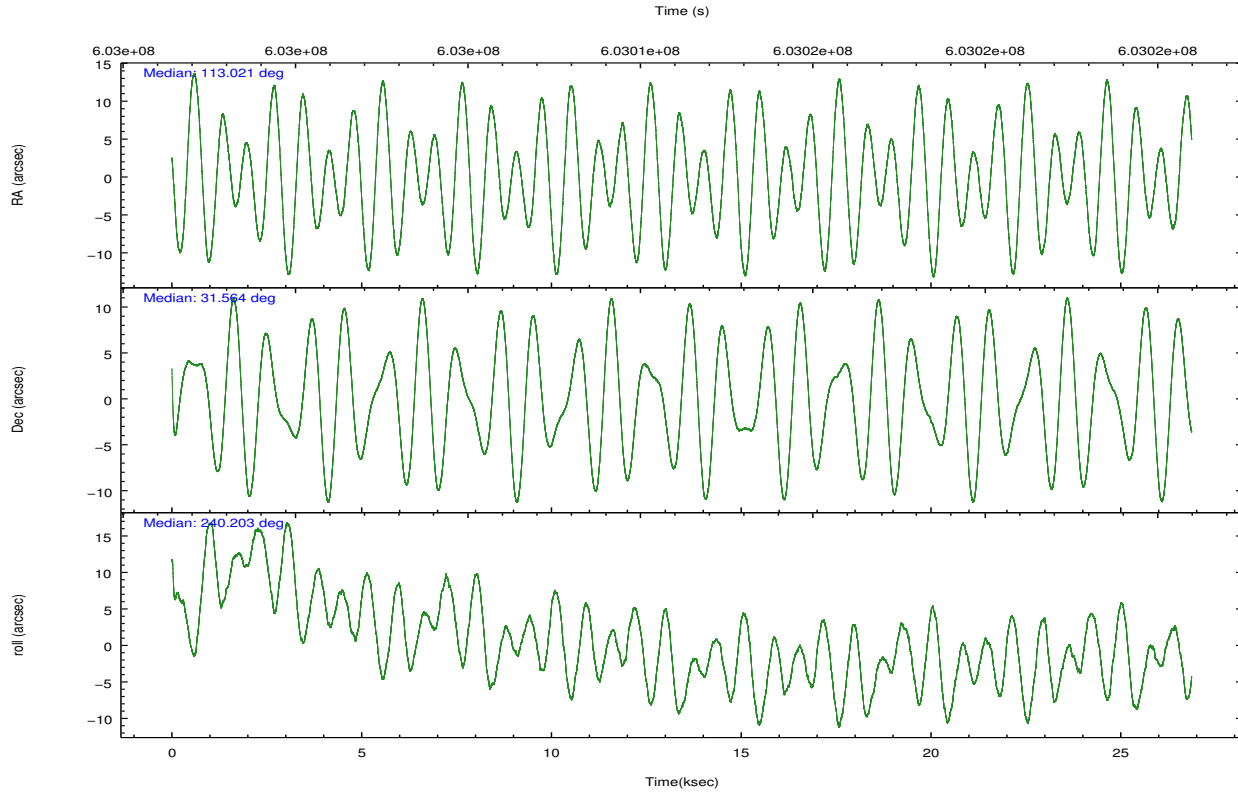
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
grade 0 events	7021	9025	7098	20236	24822
	4%	5%	3%	10%	7%
grade 1 events	113	102	114	201	648
	0%	0%	0%	0%	0%
grade 2 events	5131	5729	4994	6252	47534
	3%	3%	2%	3%	14%
grade 3 events	2157	2190	1972	2719	5135
	1%	1%	1%	1%	1%
grade 4 events	2059	2273	2044	2642	4938
	1%	1%	1%	1%	1%
grade 5 events	8065	8414	7439	9078	21460
	4%	4%	3%	4%	6%
grade 6 events	4318	5200	3956	4570	78424
	2%	2%	2%	2%	24%
grade 7 events	139415	144230	158517	153889	139127
	82%	81%	85%	77%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01235	ACIS-01235	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	113.021029	113.0212697062999	CCD I2 on	Y	Y
[deg] Pointing Dec	31.591488	31.56389735024465	CCD I3 on	Y	Y
[deg] Pointing Roll	240.000769	240.2093383262731	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	602998635.184000	602996610.40912	CCD S5 on	N	N
Observation start date	2017-02-09T03:36:06	2017-02-09T03:03:30	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	603024635.184000	603025484.66079	On-chip summing requested	N	N
Observation end date	2017-02-09T10:49:26	2017-02-09T11:04:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



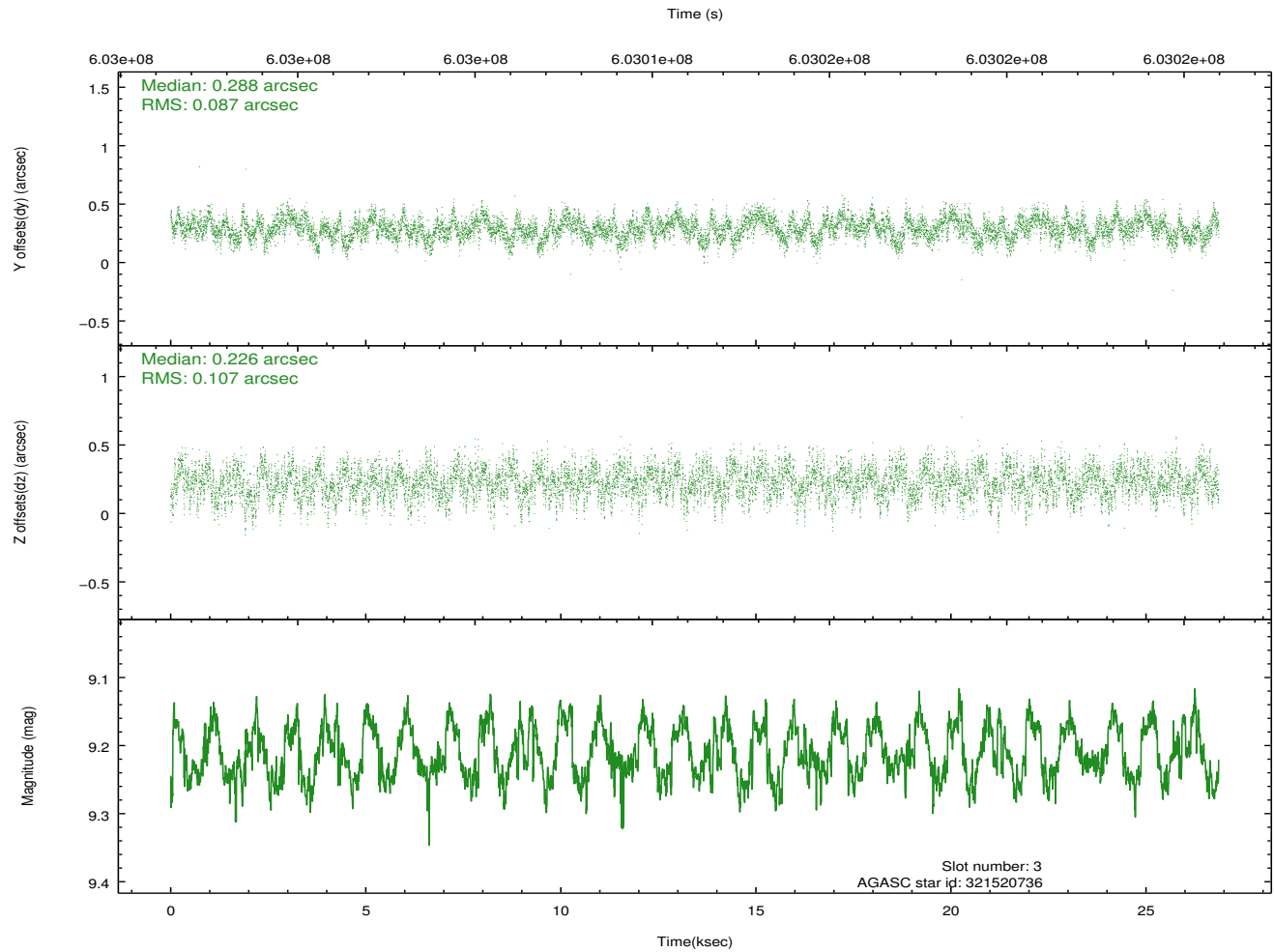
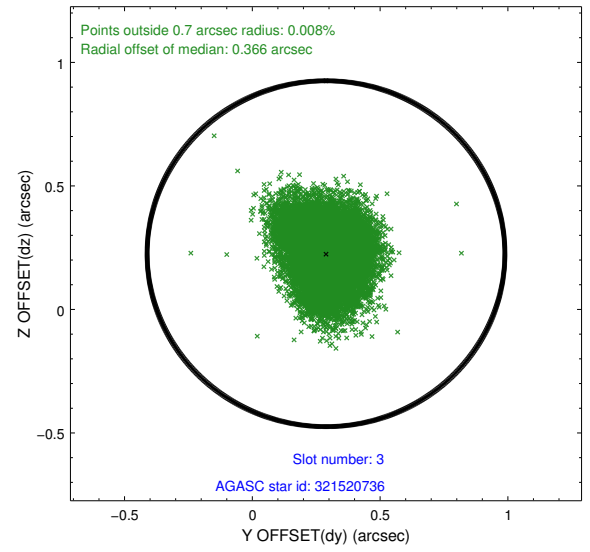
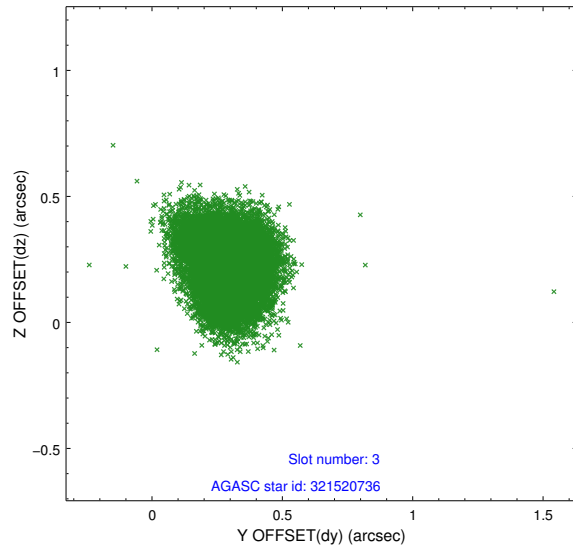


Slot Statistics

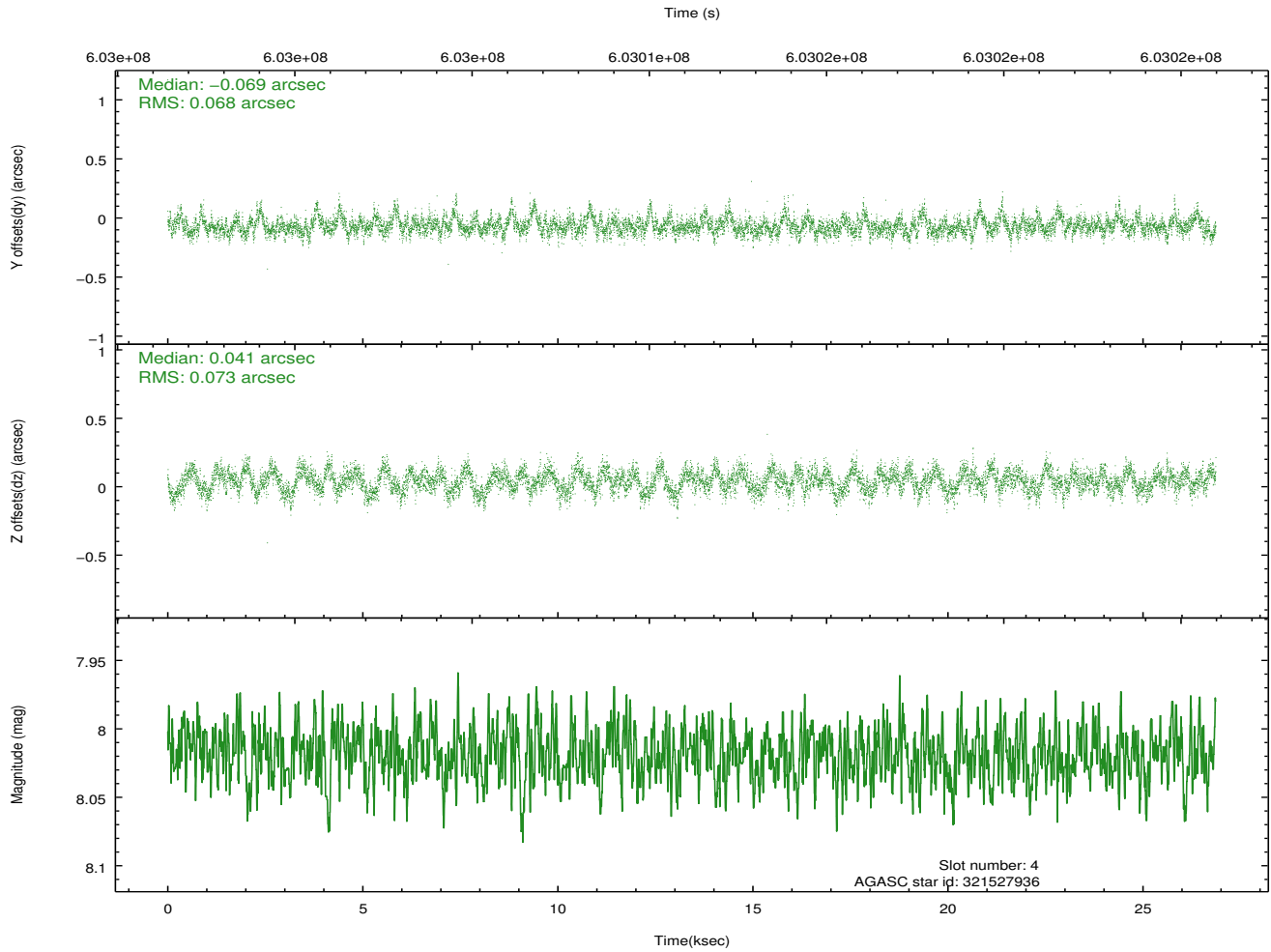
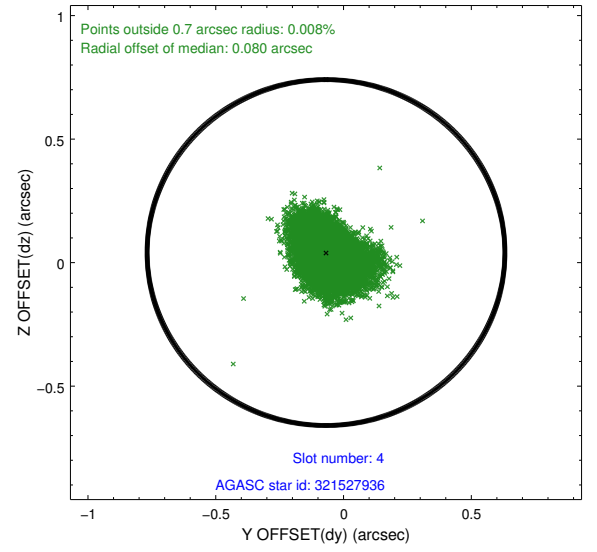
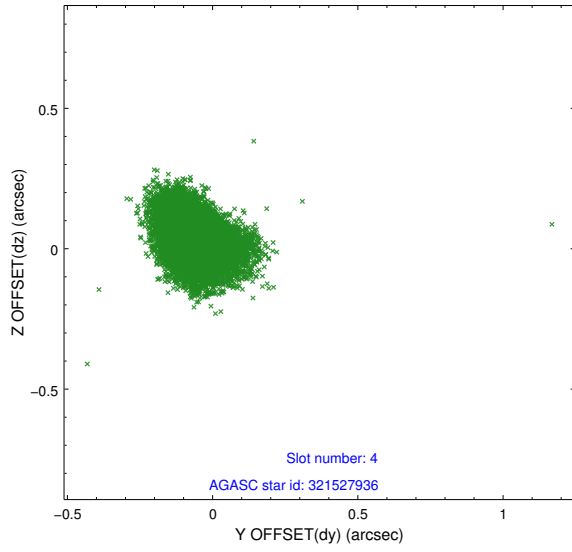
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.98	6553	-0.353	-0.196	0.014	0.047	0.000000	0.000000	-776.13	-852.07
1	FID		ACIS-I-4	7.04	6553	0.281	0.225	0.024	0.059	0.000000	0.000000	2138.51	1054.49
2	FID		ACIS-I-6	7.10	6554	-0.024	0.039	0.036	0.072	0.000000	0.000000	384.36	1696.59
3	GUIDE	used	321520736	9.22	13087	0.288	0.226	0.148	0.234	113.387072	31.695033	-884.32	784.06
4	GUIDE	used	321527936	8.02	13104	-0.069	0.041	0.104	0.174	112.604277	31.145118	2032.39	-309.32
5	GUIDE	used	321533568	8.83	13093	0.072	-0.040	0.132	0.227	112.684501	31.559166	616.38	-836.43
6	GUIDE	used	322050952	8.39	13104	0.132	0.179	0.088	0.141	112.842649	31.961208	-879.85	-1137.30
7	GUIDE	used	321528936	7.85	13104	-0.431	-0.385	0.122	0.213	113.393387	30.858982	1706.56	2314.06

2.4 Star Slots

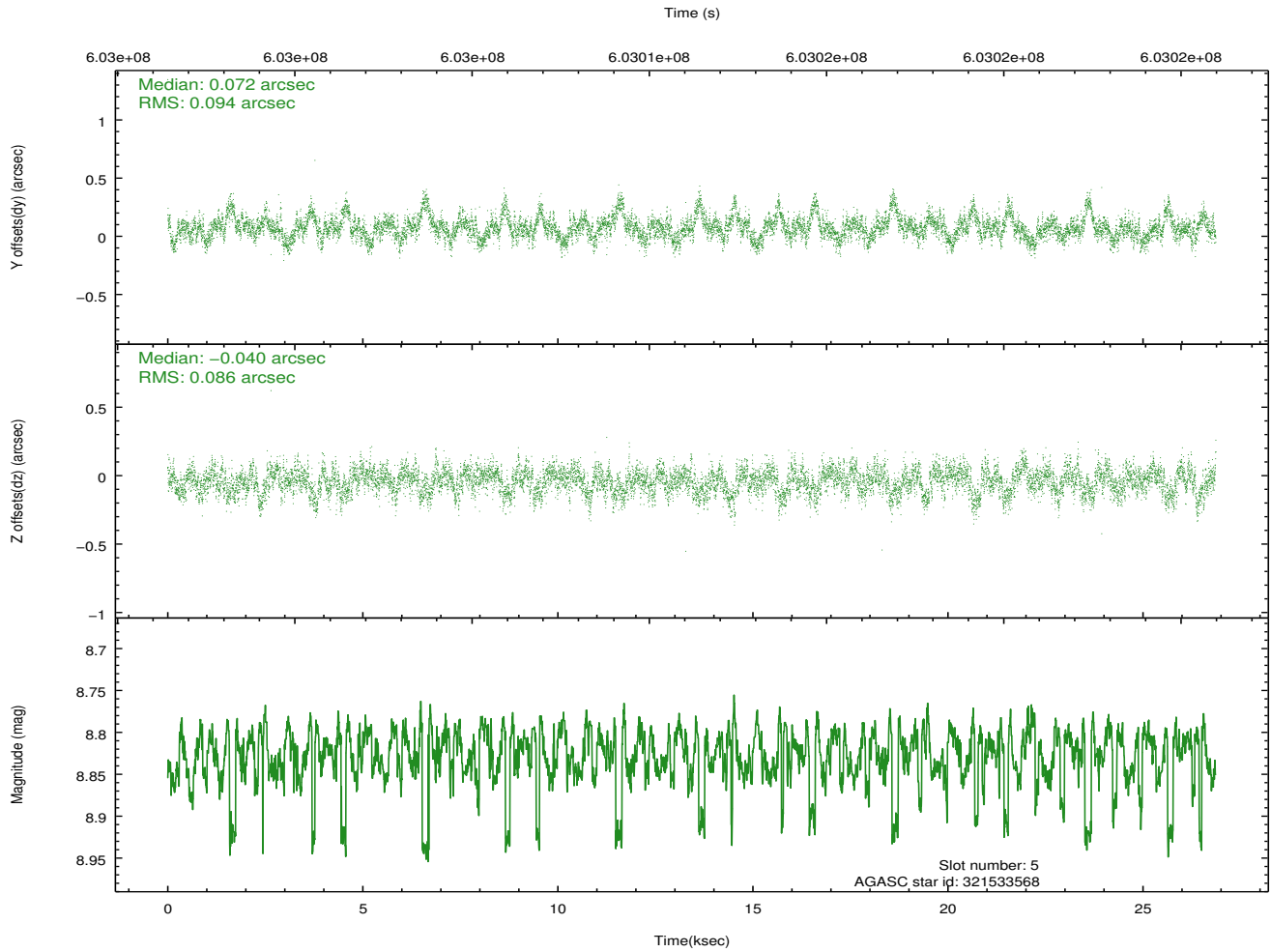
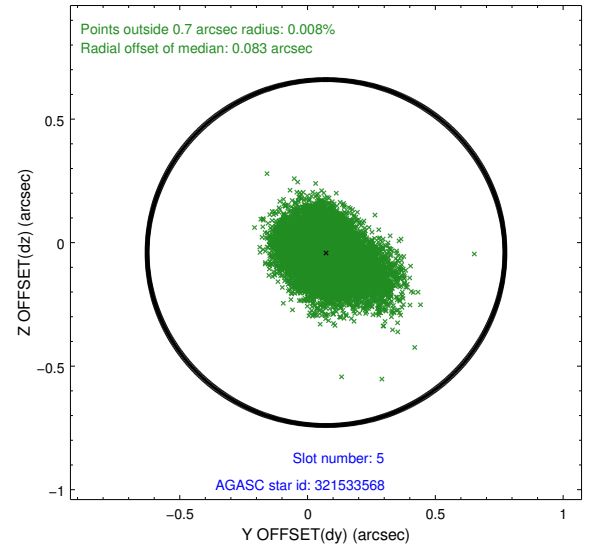
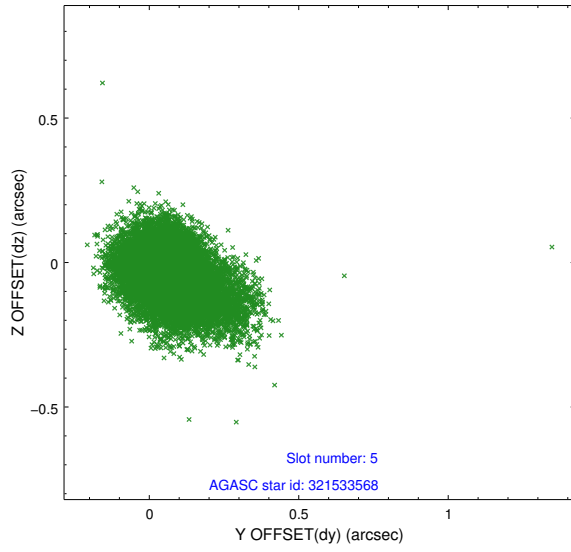
2.4.1 Slot 3



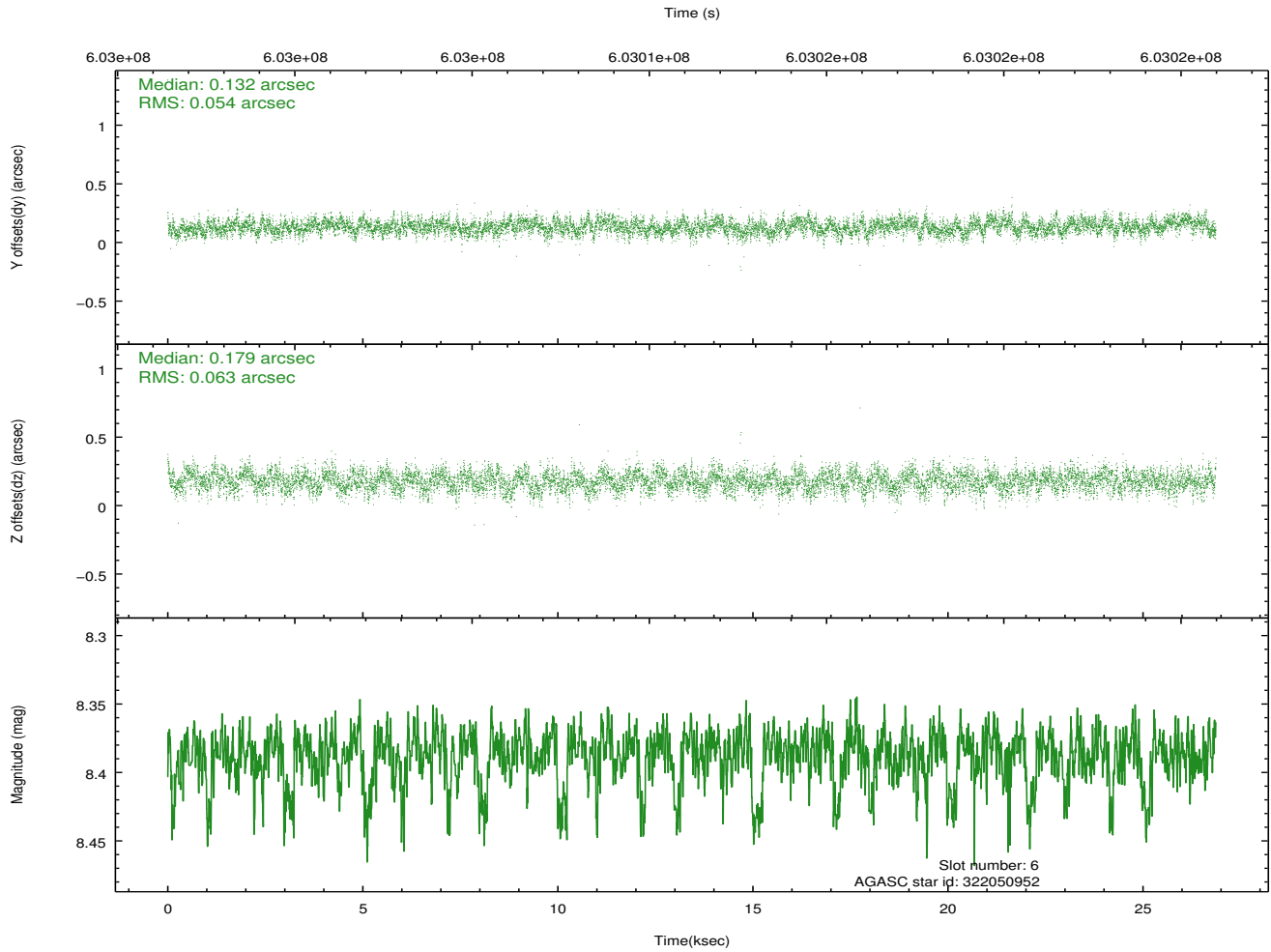
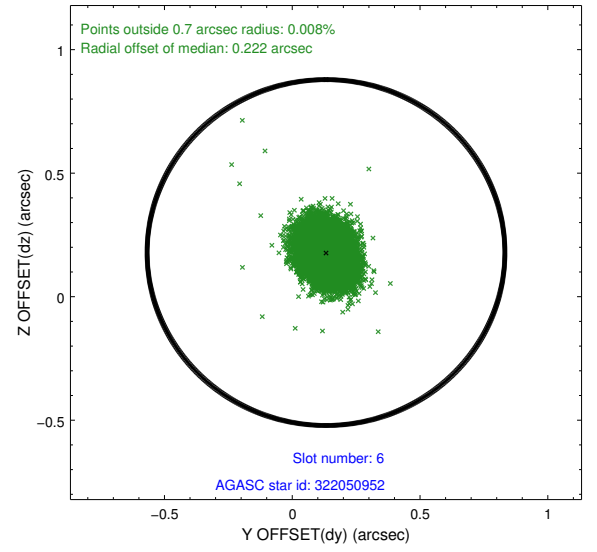
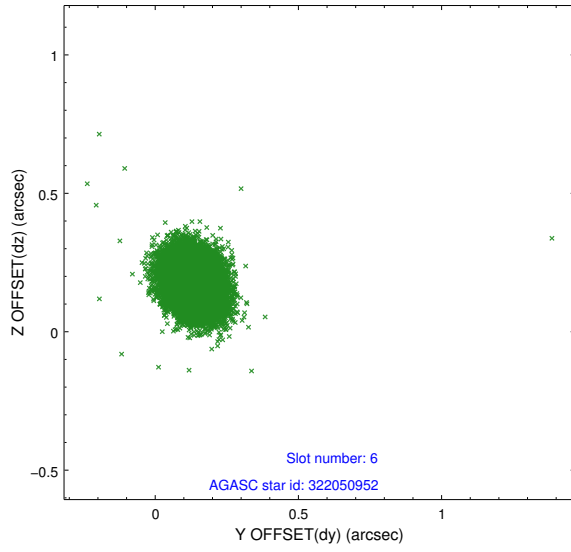
2.4.2 Slot 4



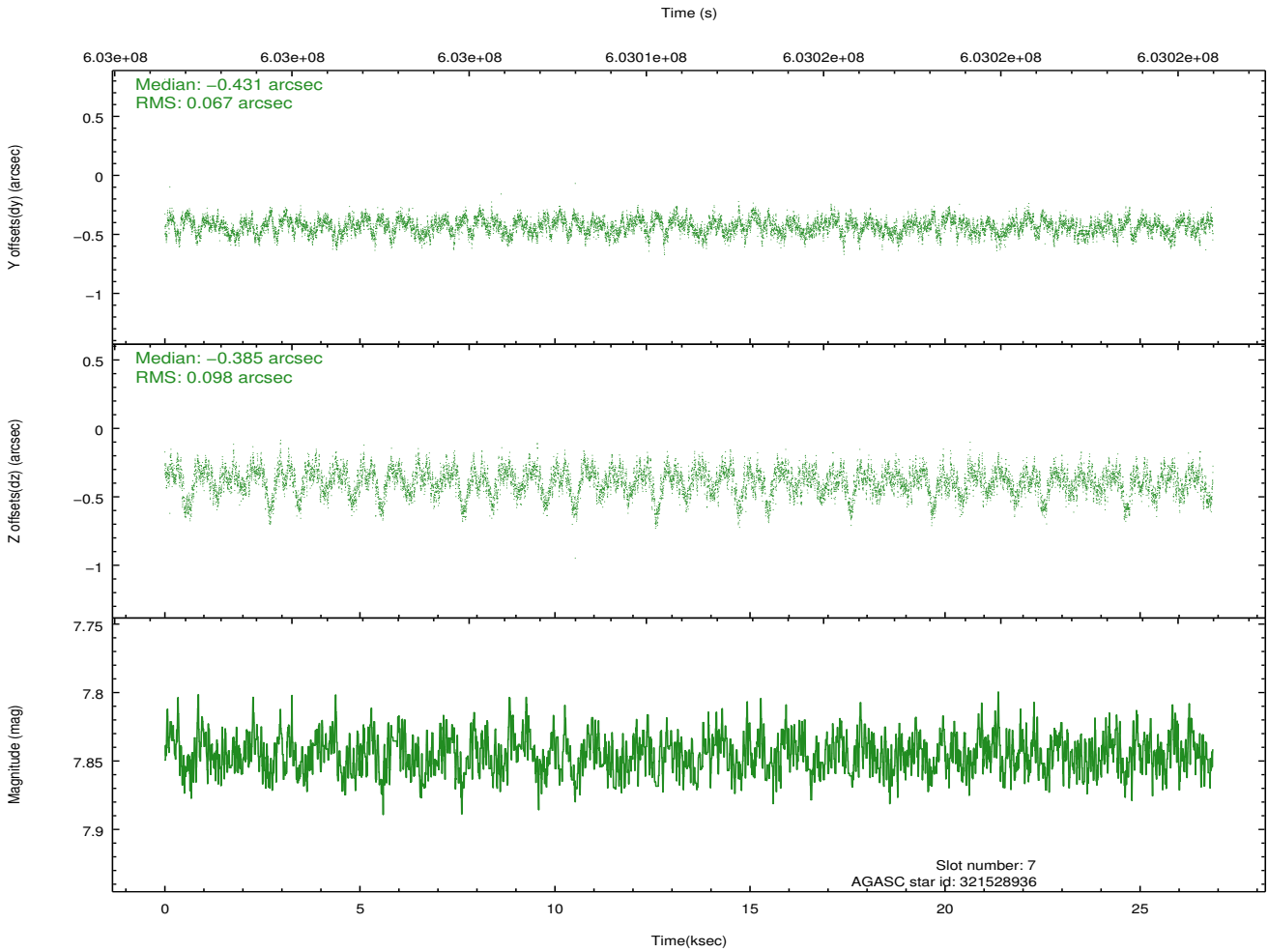
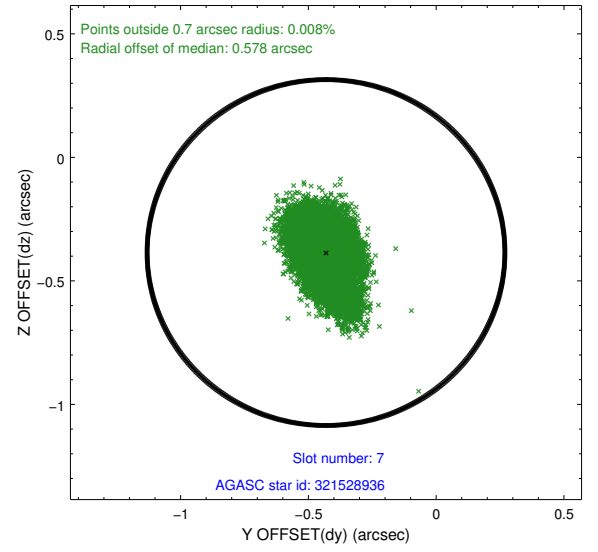
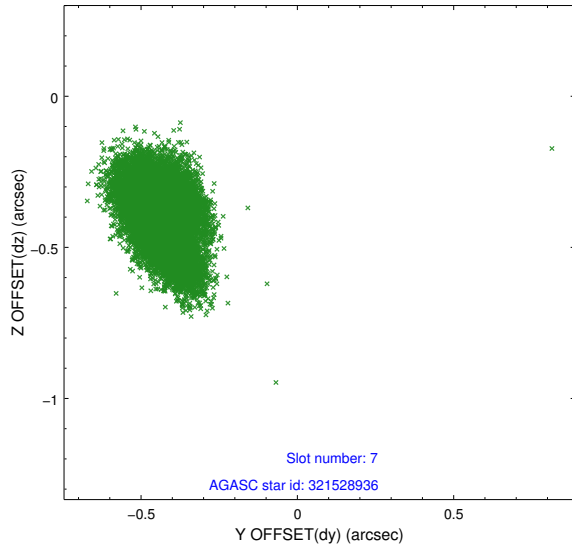
2.4.3 Slot 5



2.4.4 Slot 6

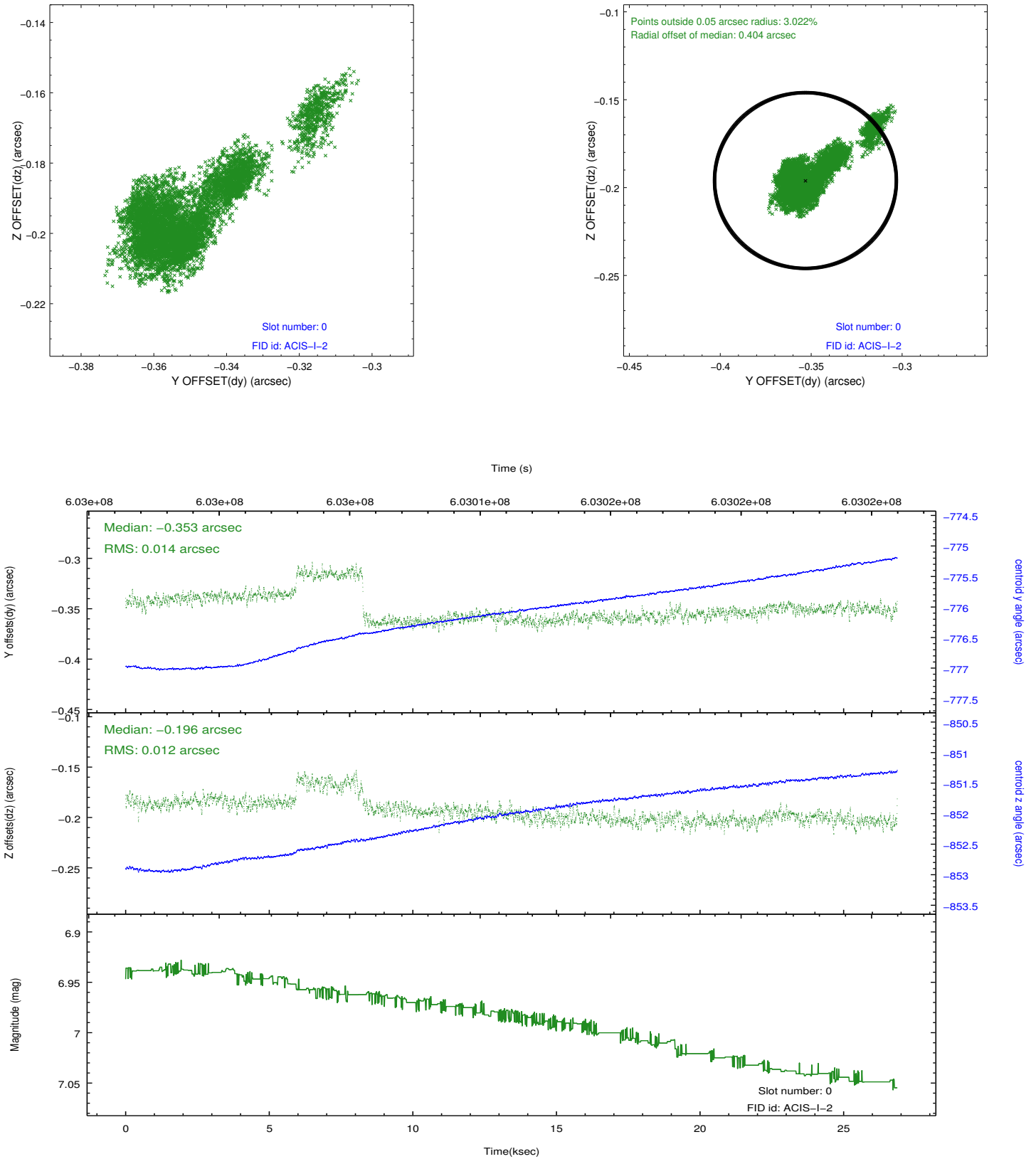


2.4.5 Slot 7

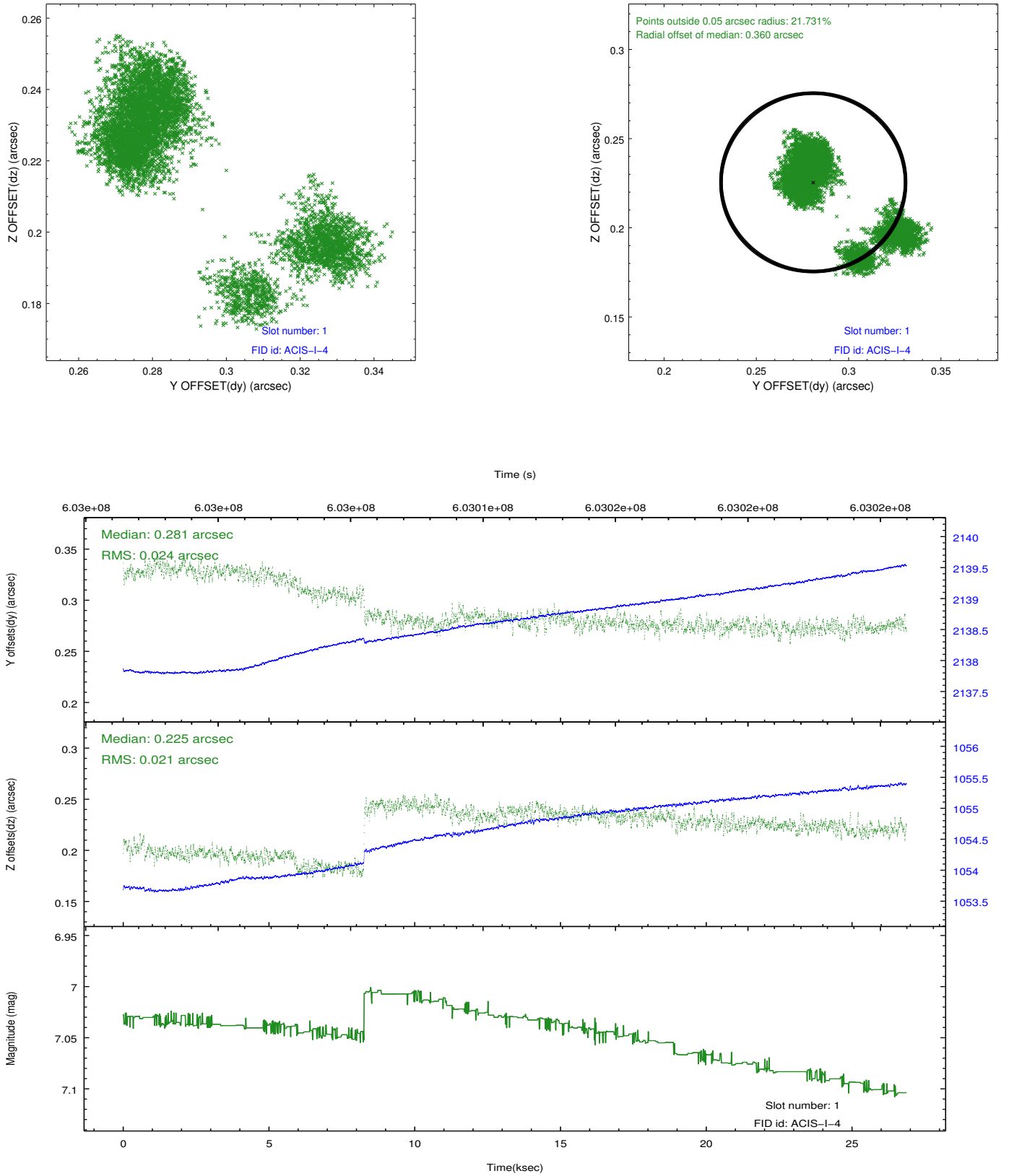


2.5 FID Slots

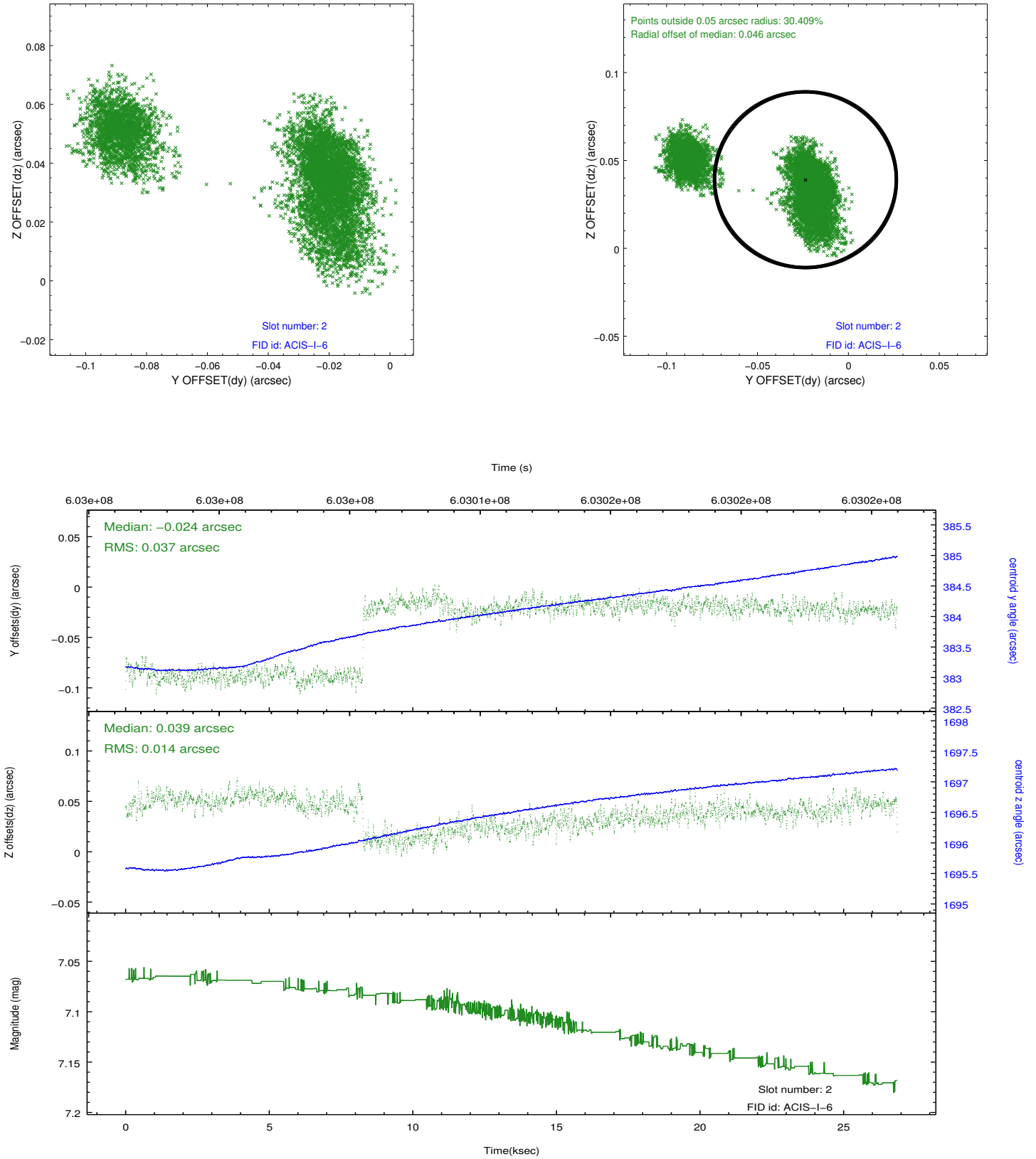
2.5.1 Slot 0



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)	2017.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.061700200558

A.2 Comments