

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 17616 - L2 Version 1
Chandra X-Ray Center

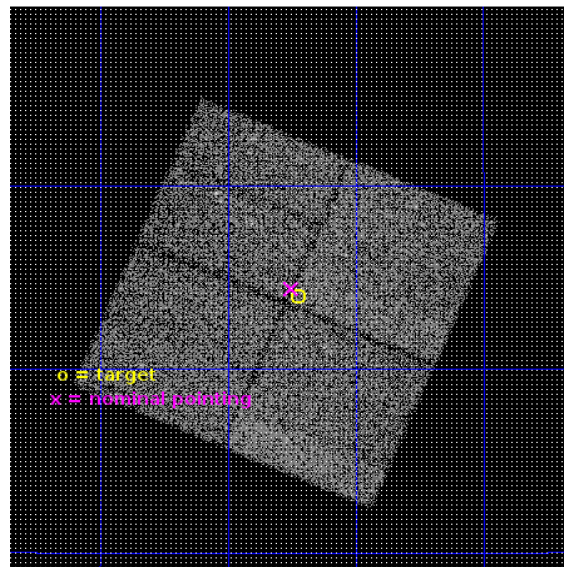
L2 Processing Date : Nov 9 2016

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

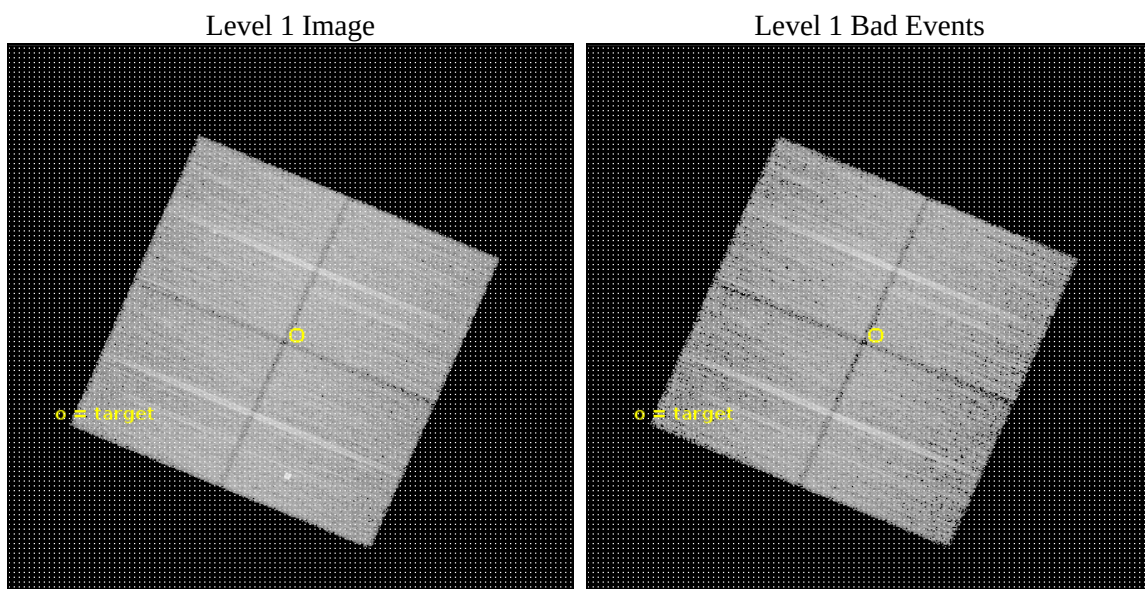
seq_num	801501	Sequence number
obs_id	17616	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.681017	Observer's specified target RA [deg]
dec_targ	26.899714	Observer's specified target Dec [deg]
ra_nom	206.68784862837	Nominal RA [deg]
dec_nom	26.906419493927	Nominal Dec [deg]
roll_nom	23.205590843855	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27406.573834896	Sum of GTIs [s]
livetime	27048.486771317	Livetime [s]
ontime0	27403.309734702	Sum of GTIs [s]
ontime1	27400.209794402	Sum of GTIs [s]
ontime2	27406.532794952	Sum of GTIs [s]
ontime3	27406.573834896	Sum of GTIs [s]
l2events	72648	Number of level 2 events



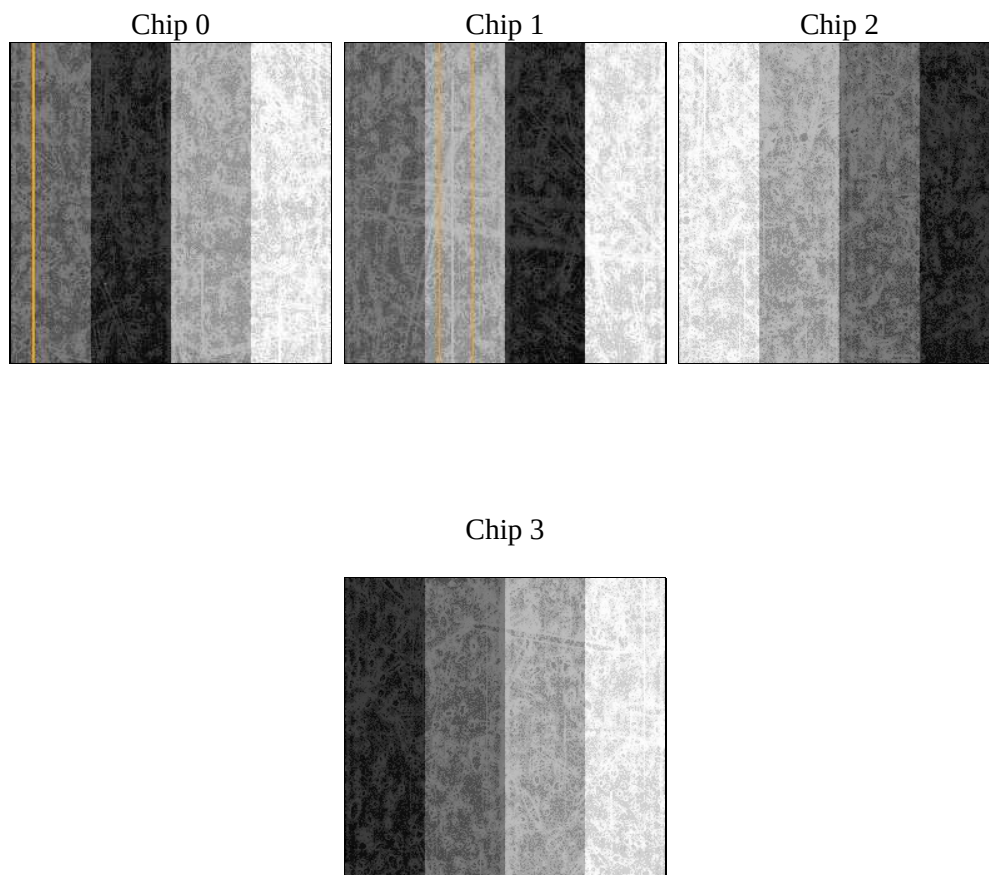
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27330.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	27406.573834896	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	27403.309734702	Sum of GTIs [s]
date	2016-11-09T18:37:19	Date and time of file creation	ontime1	27400.209794402	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	27406.532794952	Sum of GTIs [s]
			ontime3	27406.573834896	Sum of GTIs [s]
			l1events	734090	Number of level 1 events

2.1.4 Events

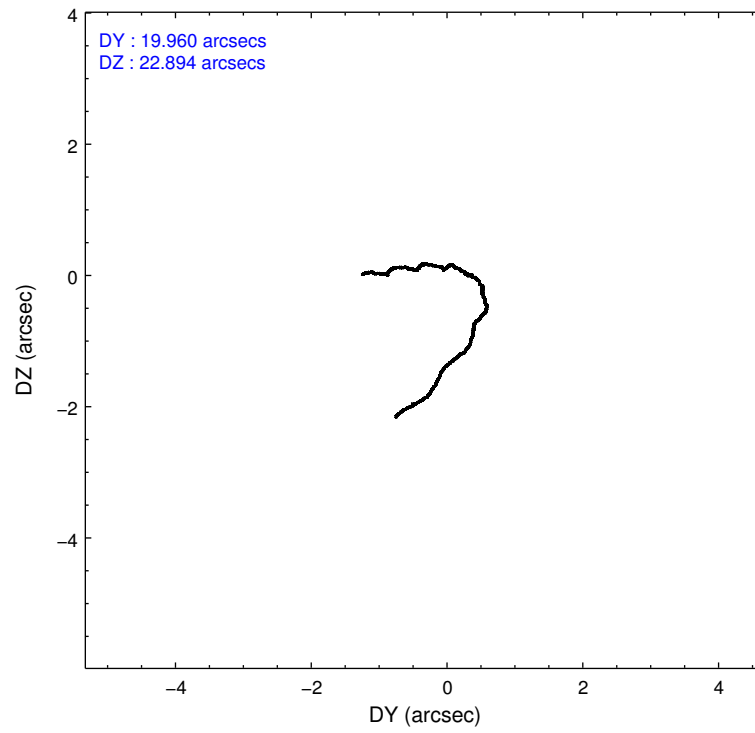
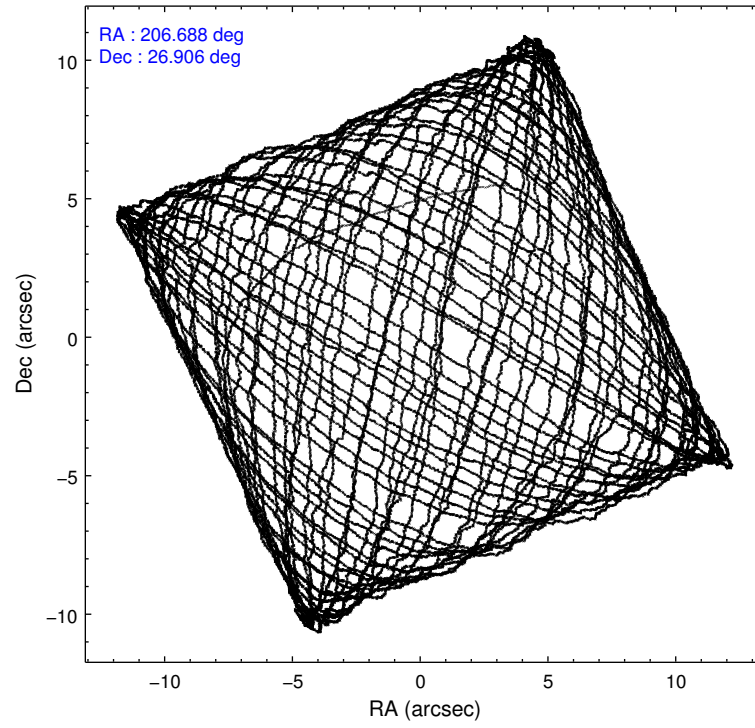
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	171292	177295	195520	189983
rejected events	150123	151788	174596	168603
rejected %	87%	85%	89%	88%

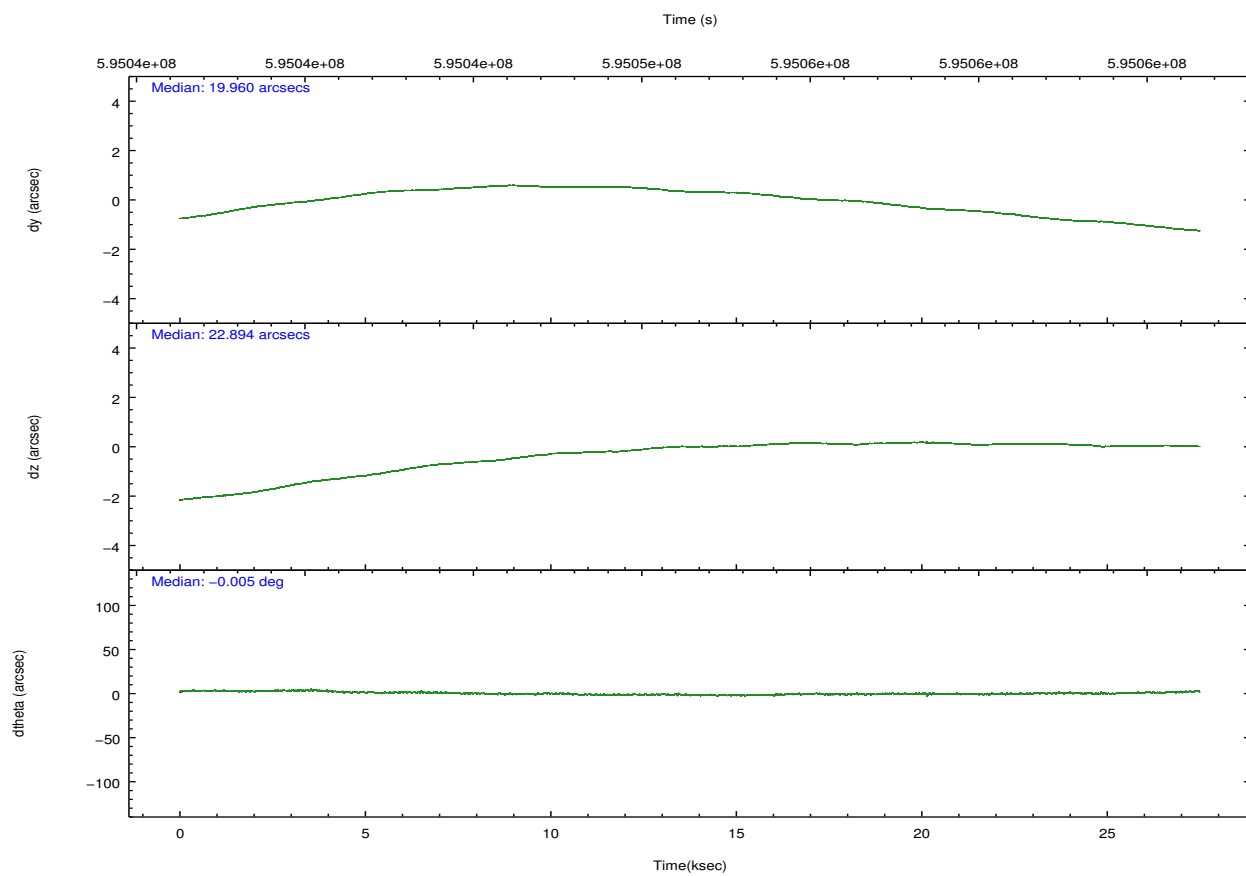
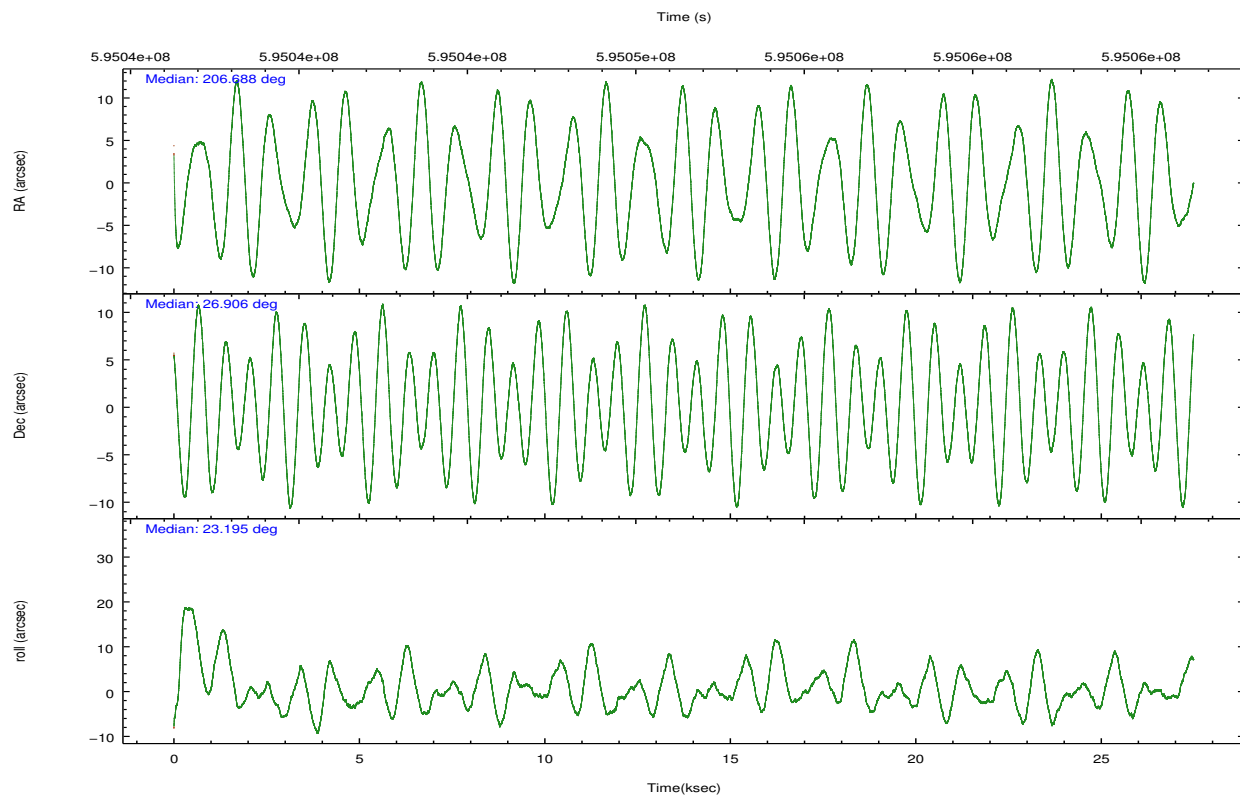
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7231	10015	7495	8272
	4%	5%	3%	4%
grade 1 events	96	99	112	115
	0%	0%	0%	0%
grade 2 events	5421	5859	5282	4630
	3%	3%	2%	2%
grade 3 events	2174	2235	2142	2167
	1%	1%	1%	1%
grade 4 events	2017	2234	2091	2130
	1%	1%	1%	1%
grade 5 events	8116	8586	7607	9153
	4%	4%	3%	4%
grade 6 events	4334	5170	3920	4187
	2%	2%	2%	2%
grade 7 events	141903	143097	166871	159329
	82%	80%	85%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	206.669417	206.6878486283706	CCD I2 on	Y	Y
[deg] Pointing Dec	26.884272	26.90641949392717	CCD I3 on	Y	Y
[deg] Pointing Roll	23.005245	23.20559084385487	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	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)	595037834.184000	595036732.59881	CCD S5 on	N	N
Observation start date	2016-11-09T00:16:06	2016-11-08T23:58:52	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	595065164.184000	595066229.02551	On-chip summing requested	N	N
Observation end date	2016-11-09T07:51:36	2016-11-09T08:10:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



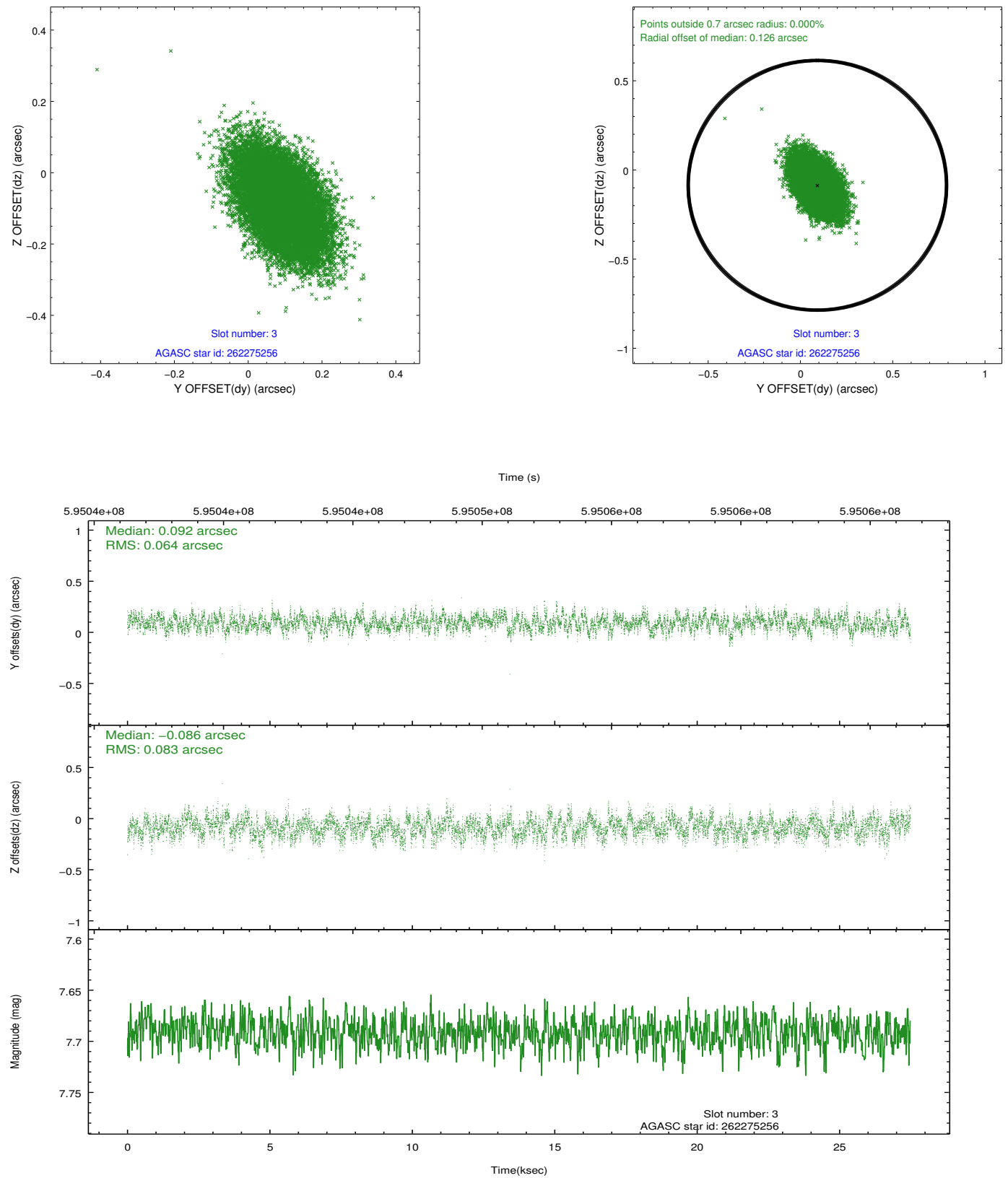


Slot Statistics

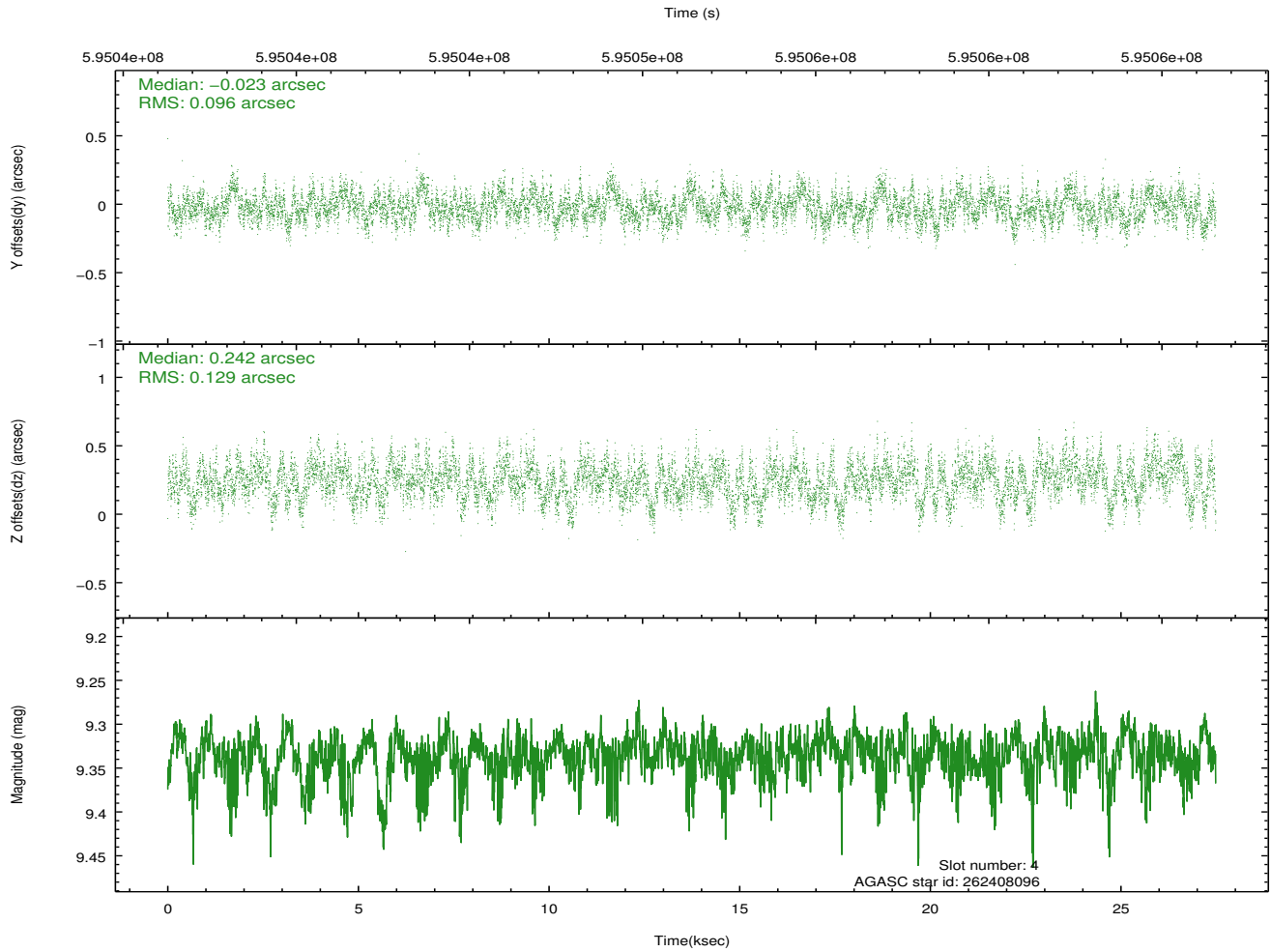
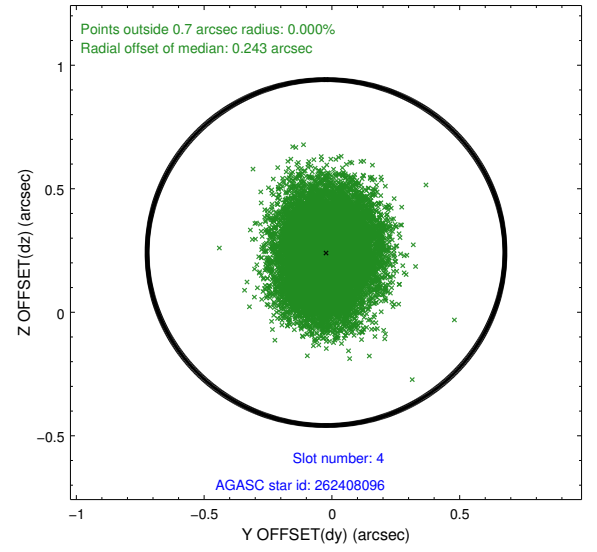
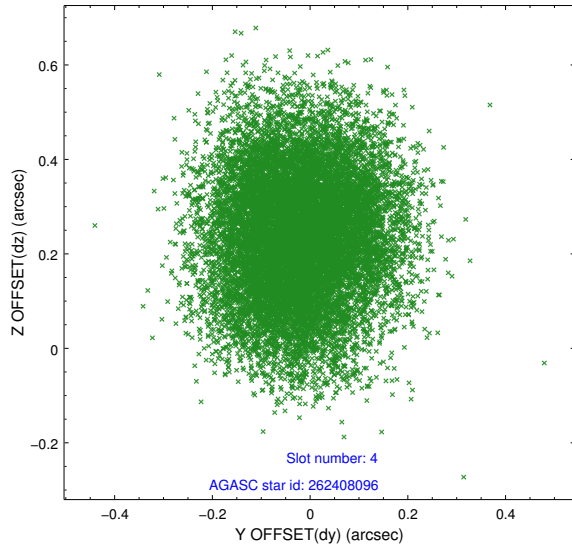
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	6706	0.067	0.003	0.022	0.081	0.000000	0.000000	919.57	-846.25
1	FID		ACIS-I-5	7.09	6706	-0.367	0.034	0.015	0.022	0.000000	0.000000	-1829.03	1051.09
2	FID		ACIS-I-6	7.10	6706	0.204	0.035	0.017	0.074	0.000000	0.000000	385.00	1695.83
3	GUIDE	used	262275256	7.69	13407	0.092	-0.086	0.110	0.185	206.467522	27.226414	-113.05	1386.86
4	GUIDE	used	262408096	9.33	13390	-0.023	0.242	0.172	0.276	207.011678	26.515421	496.78	-1650.76
5	GUIDE	used	262408936	9.64	13396	-0.014	-0.010	0.233	0.370	207.154731	26.726554	1216.54	-1129.83
6	GUIDE	used	262409552	8.16	13400	-0.019	-0.277	0.121	0.186	206.584269	27.192805	183.21	1128.65
7	GUIDE	used	262407608	9.35	13323	-0.062	0.132	0.174	0.278	207.378401	26.435507	1475.93	-2374.02

2.4 Star Slots

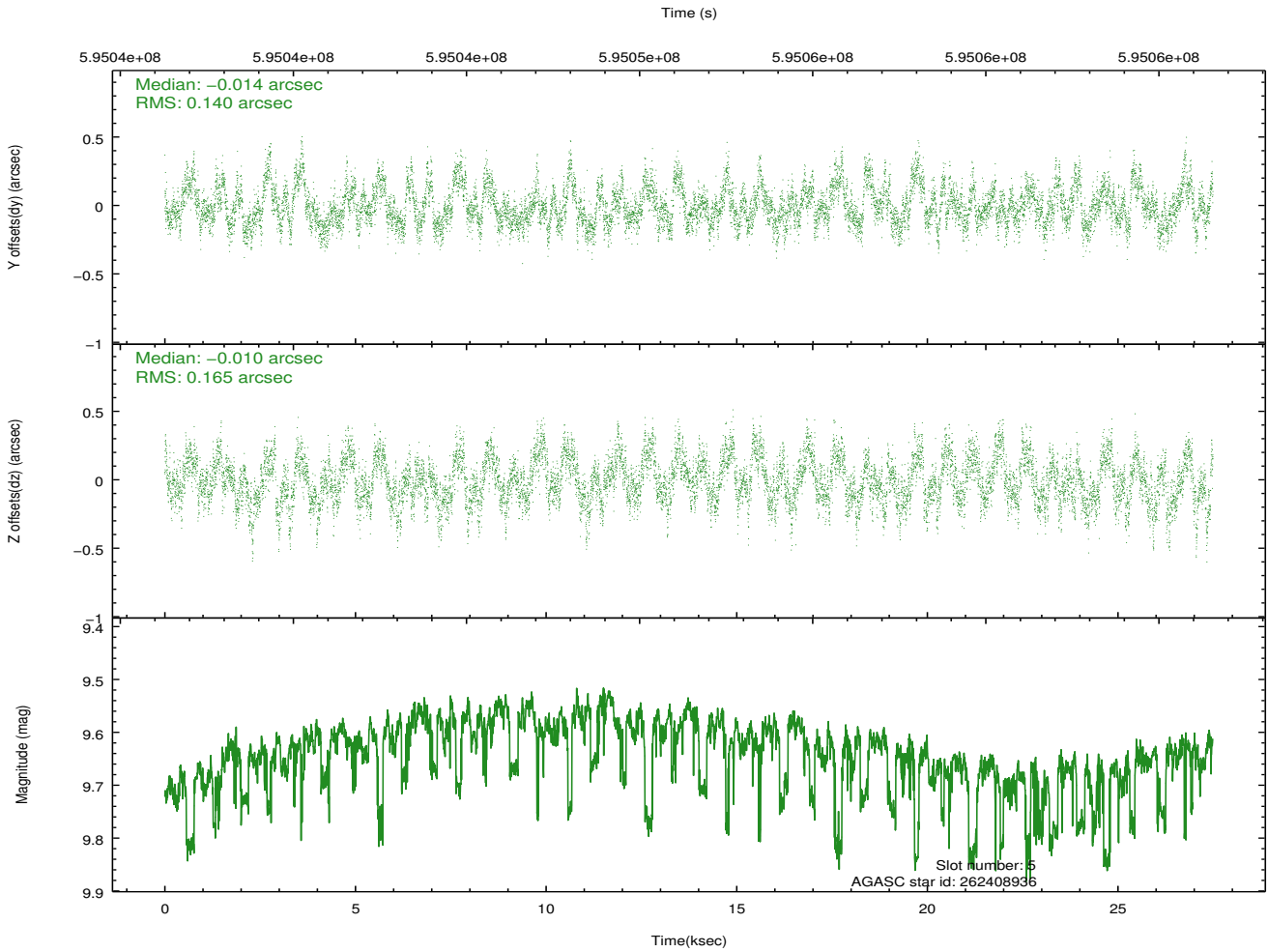
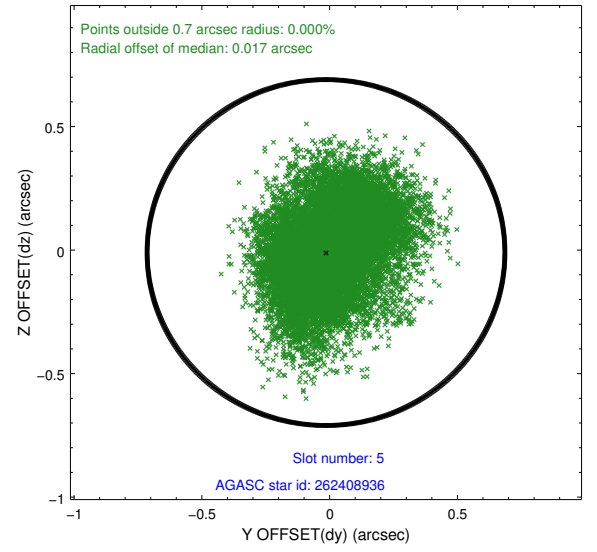
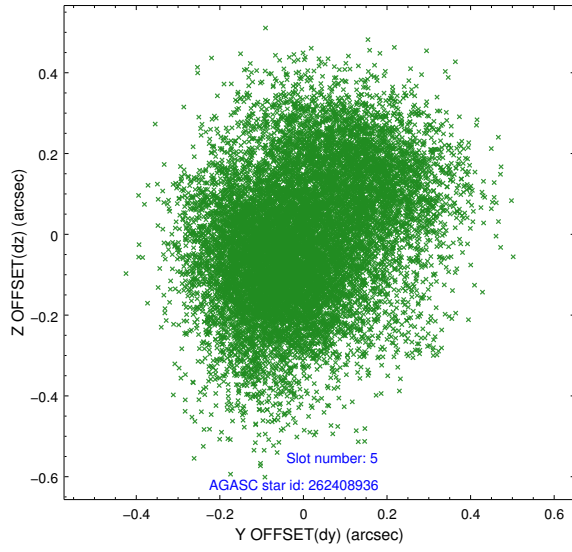
2.4.1 Slot 3



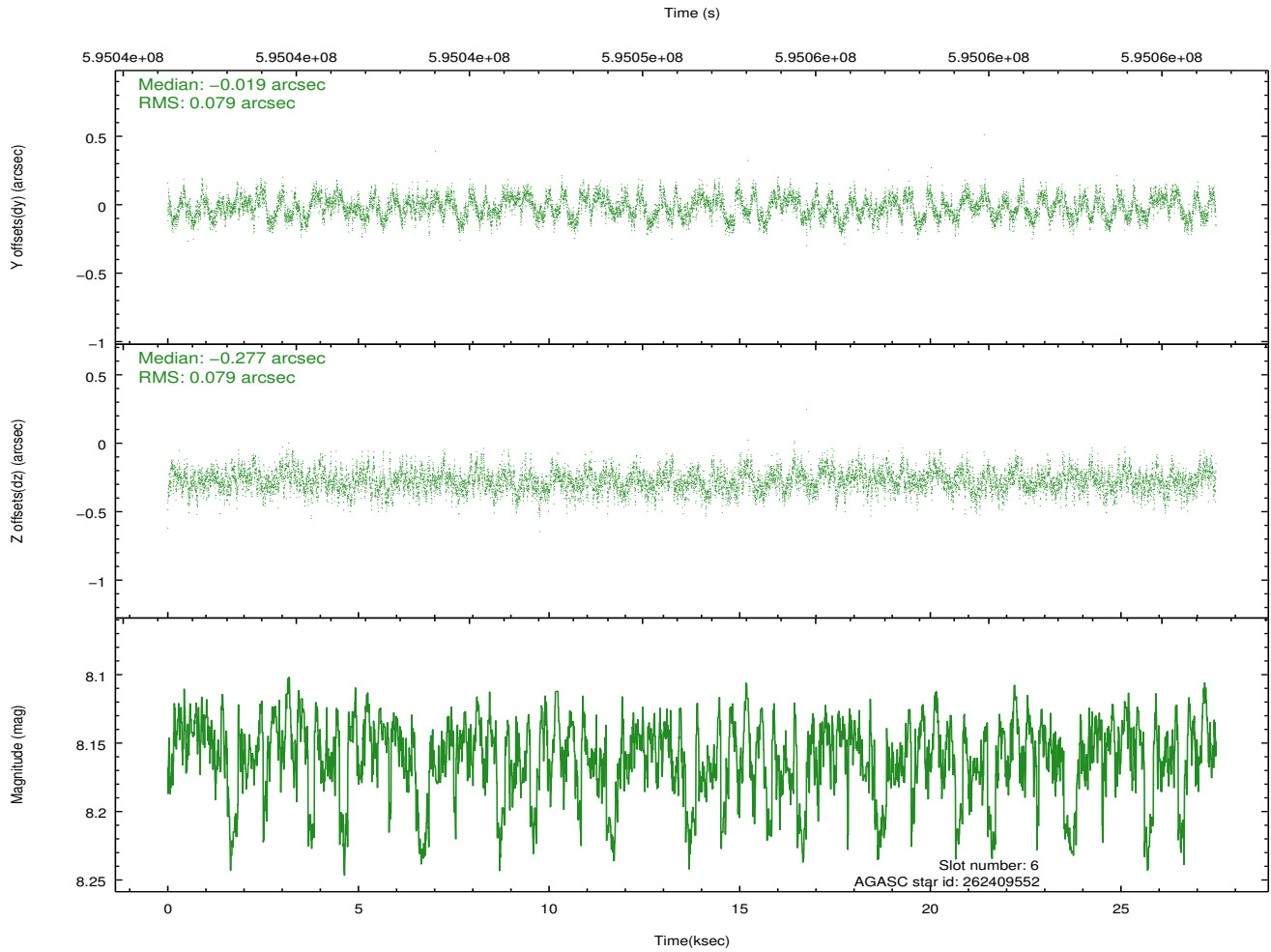
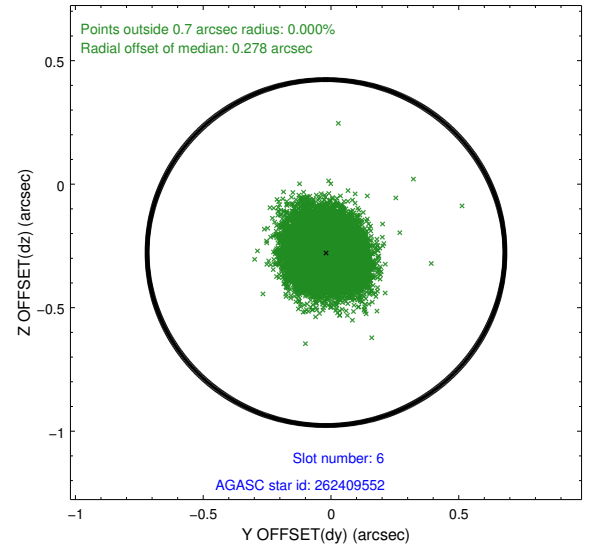
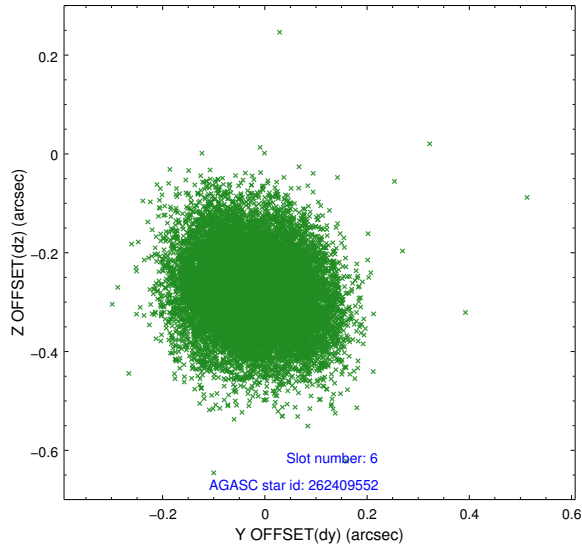
2.4.2 Slot 4



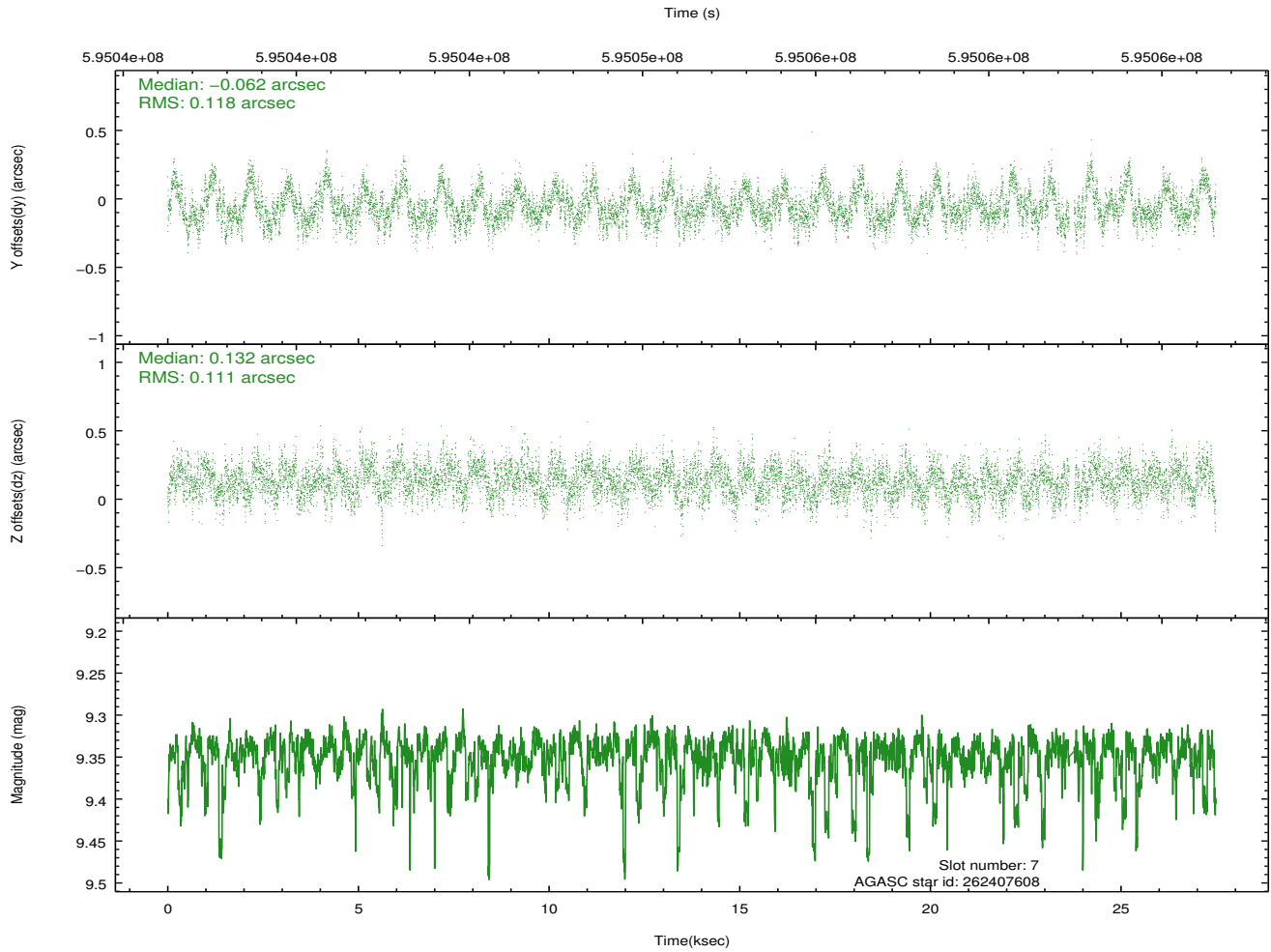
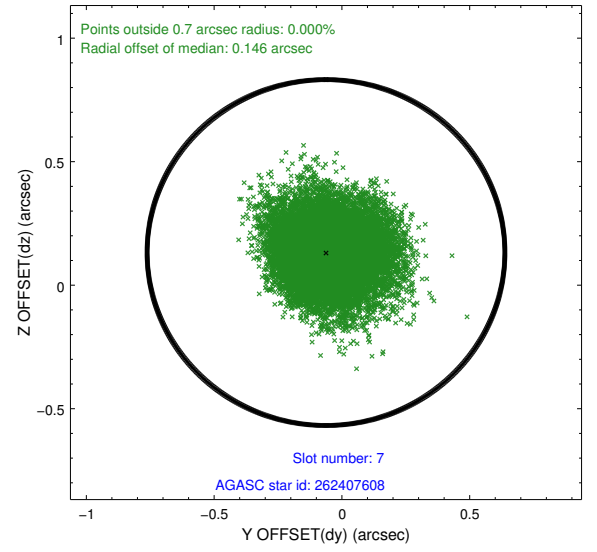
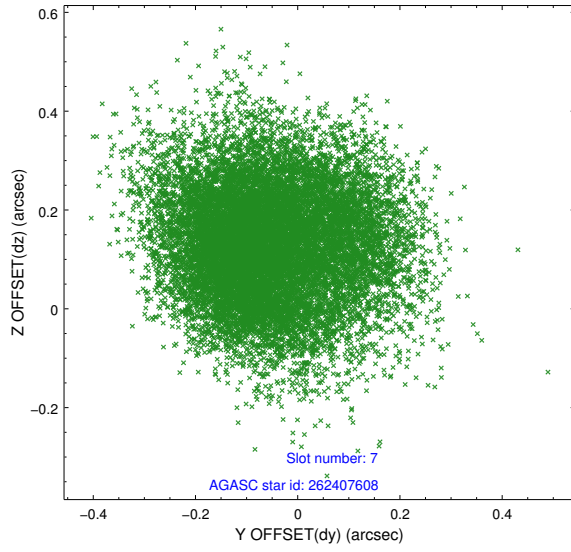
2.4.3 Slot 5



2.4.4 Slot 6

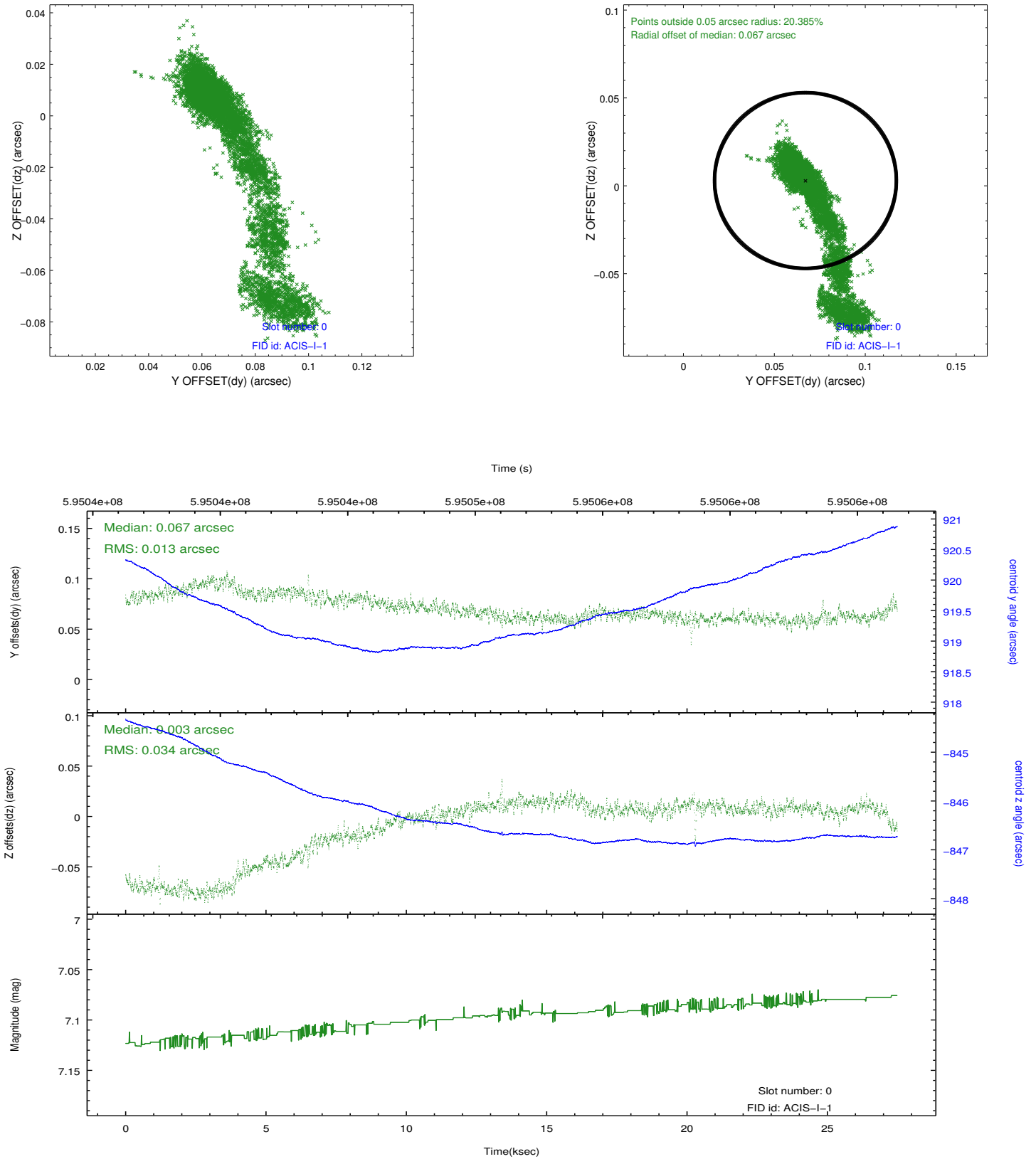


2.4.5 Slot 7

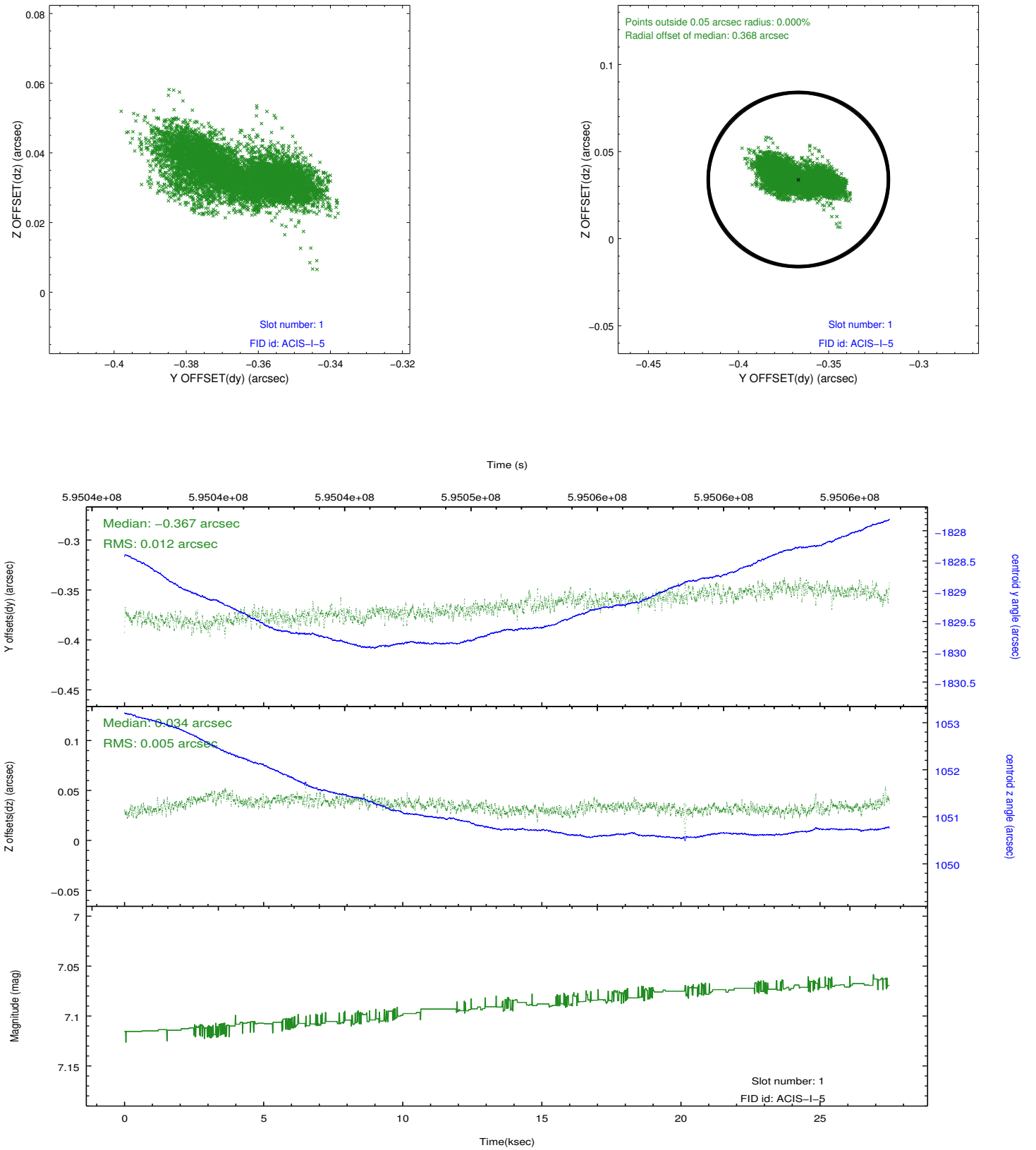


2.5 FID Slots

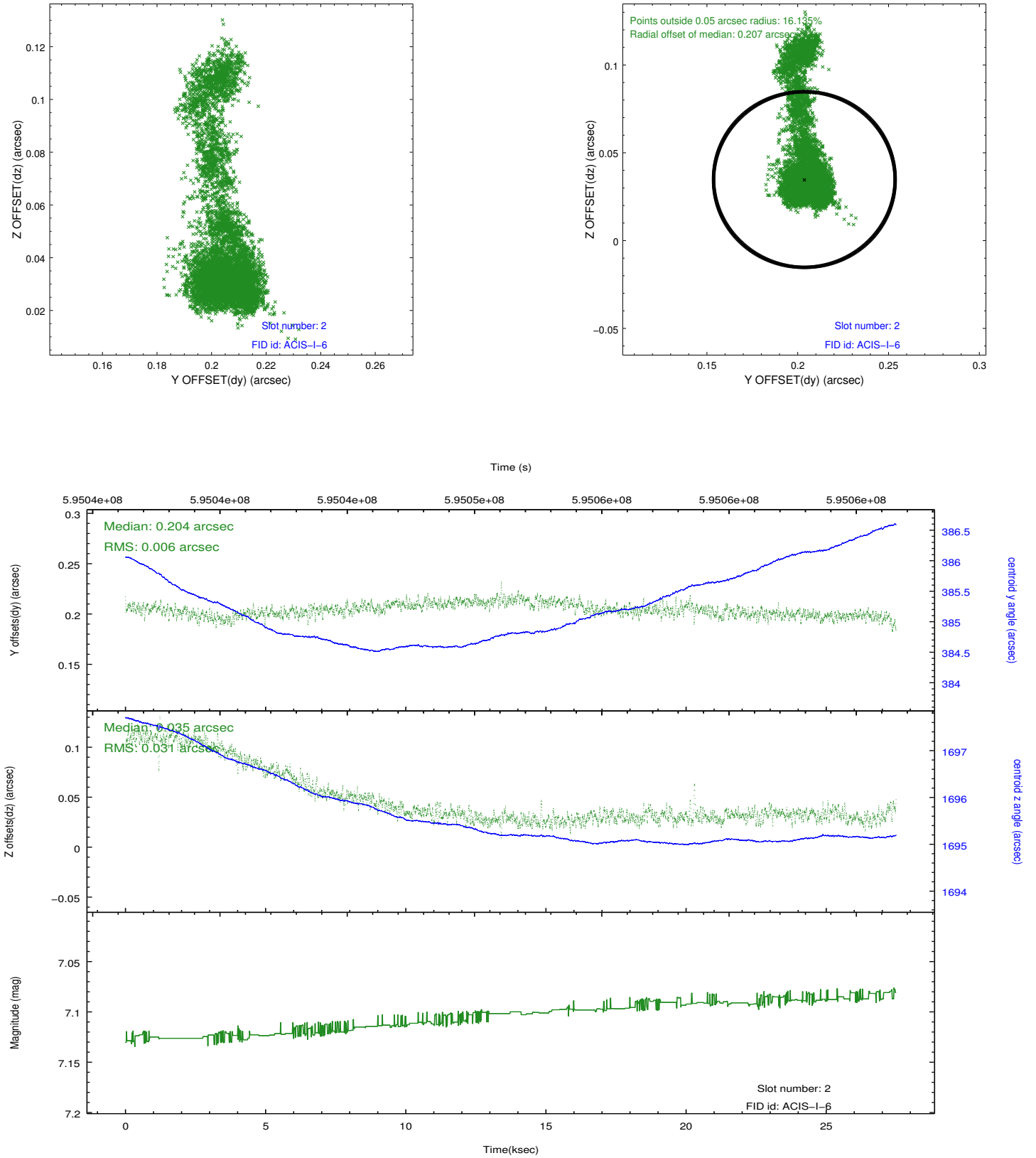
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.406573834896

A.2 Comments

Optional chip S2 not included.