

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19946 - L2 Version 1
Chandra X-Ray Center

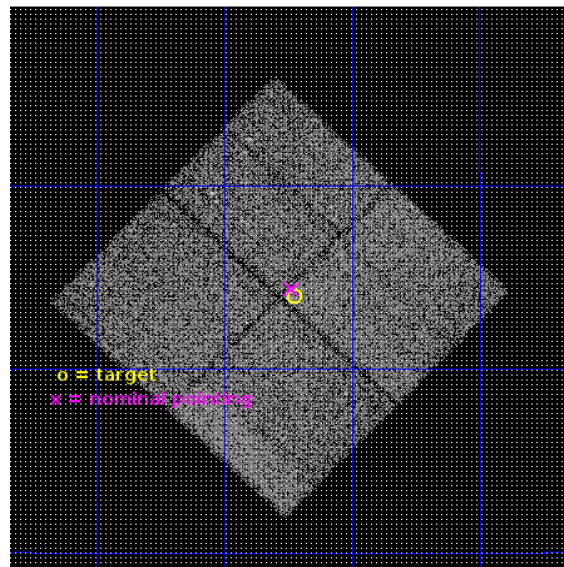
L2 Processing Date : Dec 1 2016

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1 Front

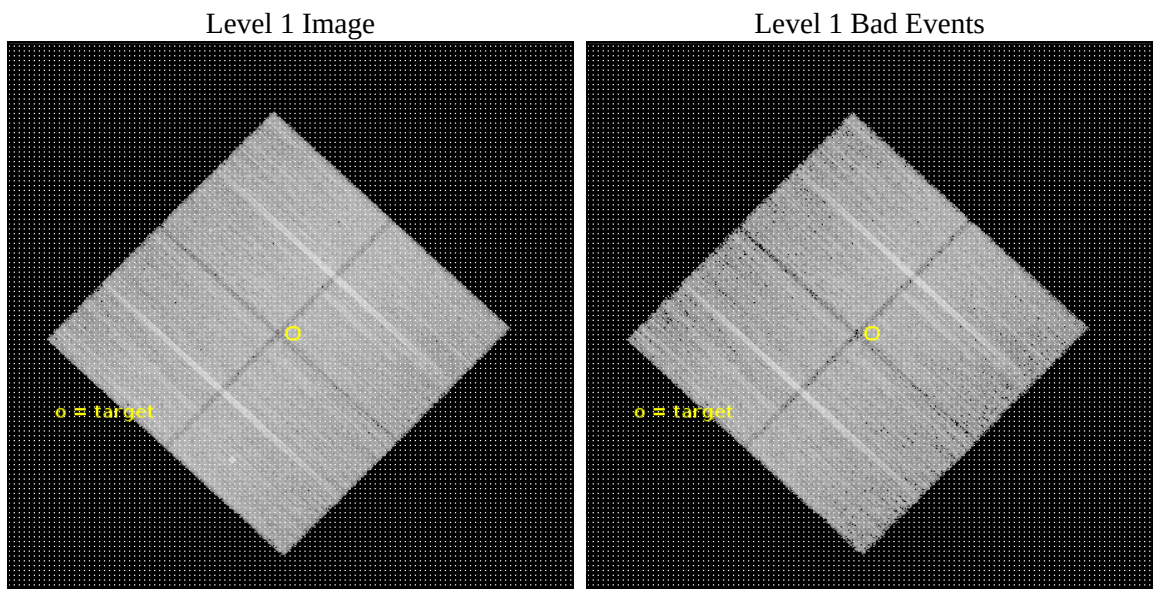
seq_num	801501	Sequence number
obs_id	19946	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? 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	206.68405631389	Nominal RA [deg]
dec_nom	26.906394774659	Nominal Dec [deg]
roll_nom	43.707293894111	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33067.536453128	Sum of GTIs [s]
livetime	32635.484745402	Livetime [s]
ontime0	33080.100254536	Sum of GTIs [s]
ontime1	33080.100254536	Sum of GTIs [s]
ontime2	33076.959284306	Sum of GTIs [s]
ontime3	33067.536453128	Sum of GTIs [s]
l2events	85676	Number of level 2 events



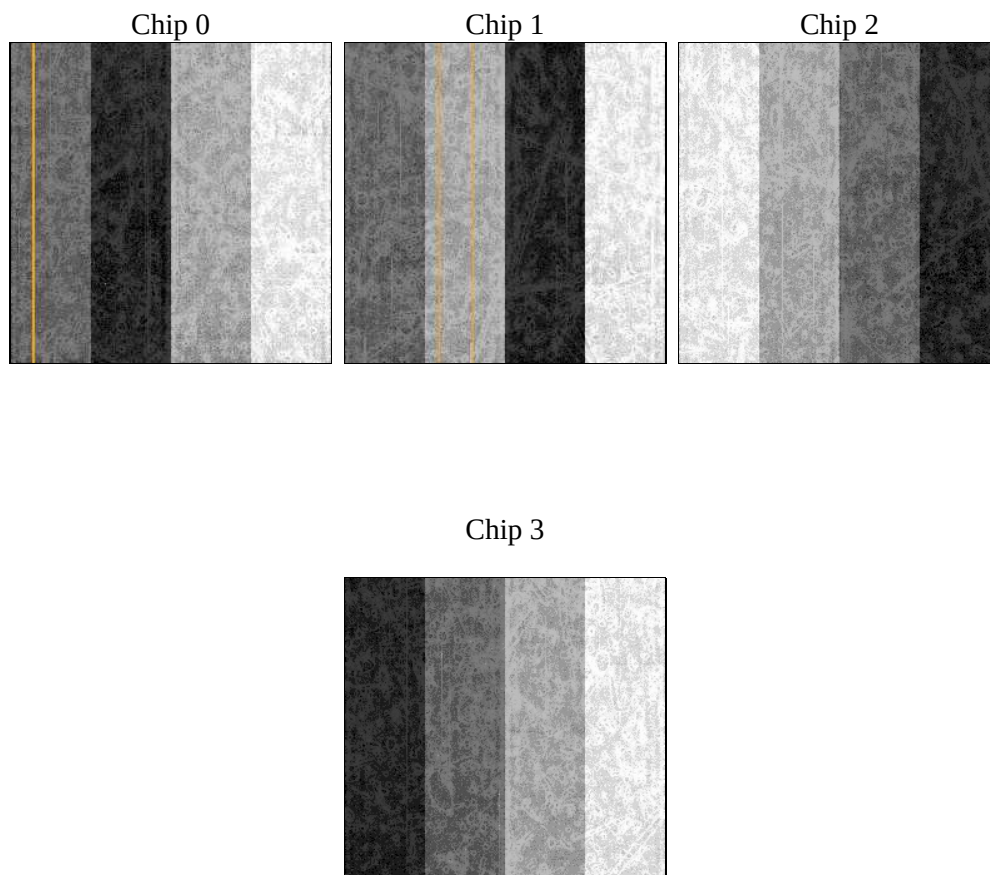
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	33067.536453128	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	33080.100254536	Sum of GTIs [s]
date	2016-12-01T20:00:31	Date and time of file creation	ontime1	33080.100254536	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	33076.959284306	Sum of GTIs [s]
			ontime3	33067.536453128	Sum of GTIs [s]
			l1events	853445	Number of level 1 events

2.1.4 Events

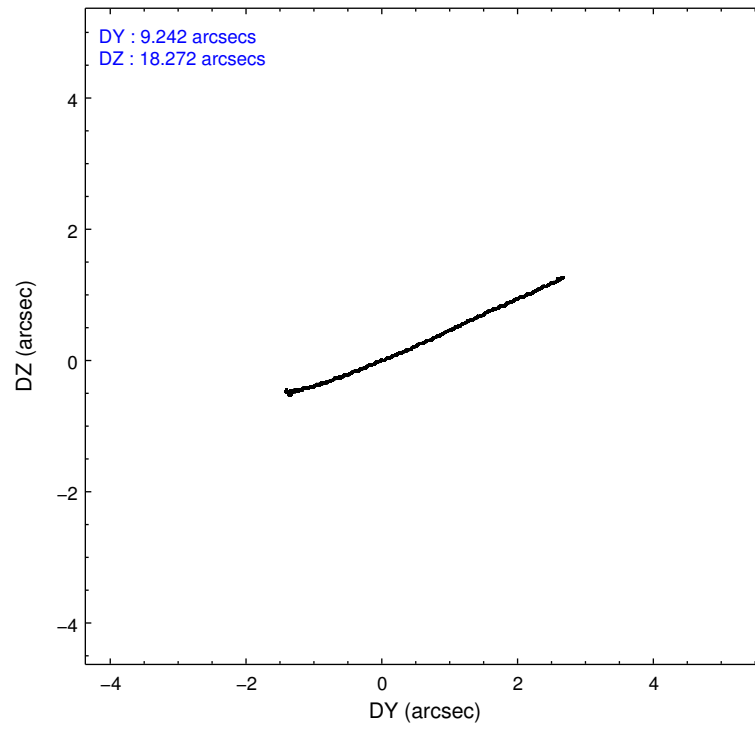
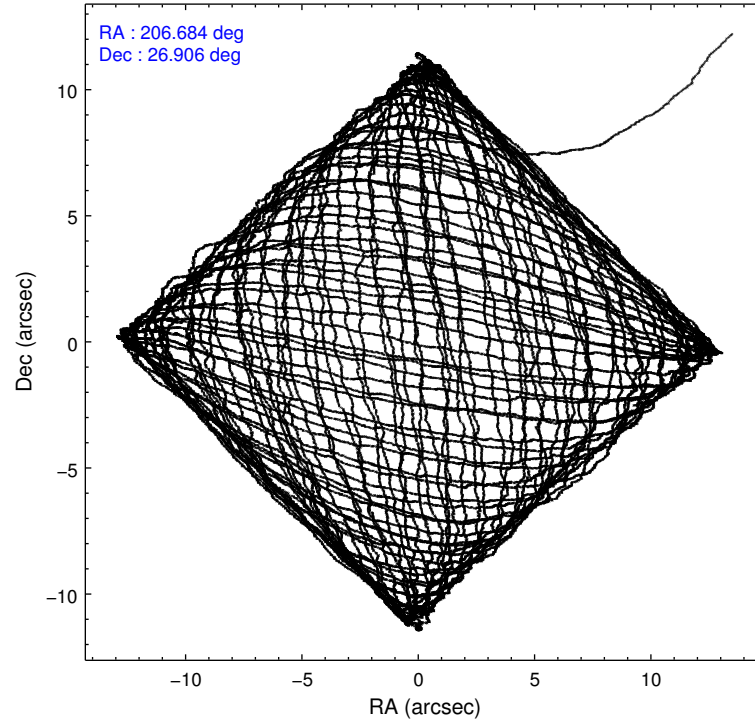
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	206518	211510	220787	214630
rejected events	181342	182946	195524	189781
rejected %	87%	86%	88%	88%

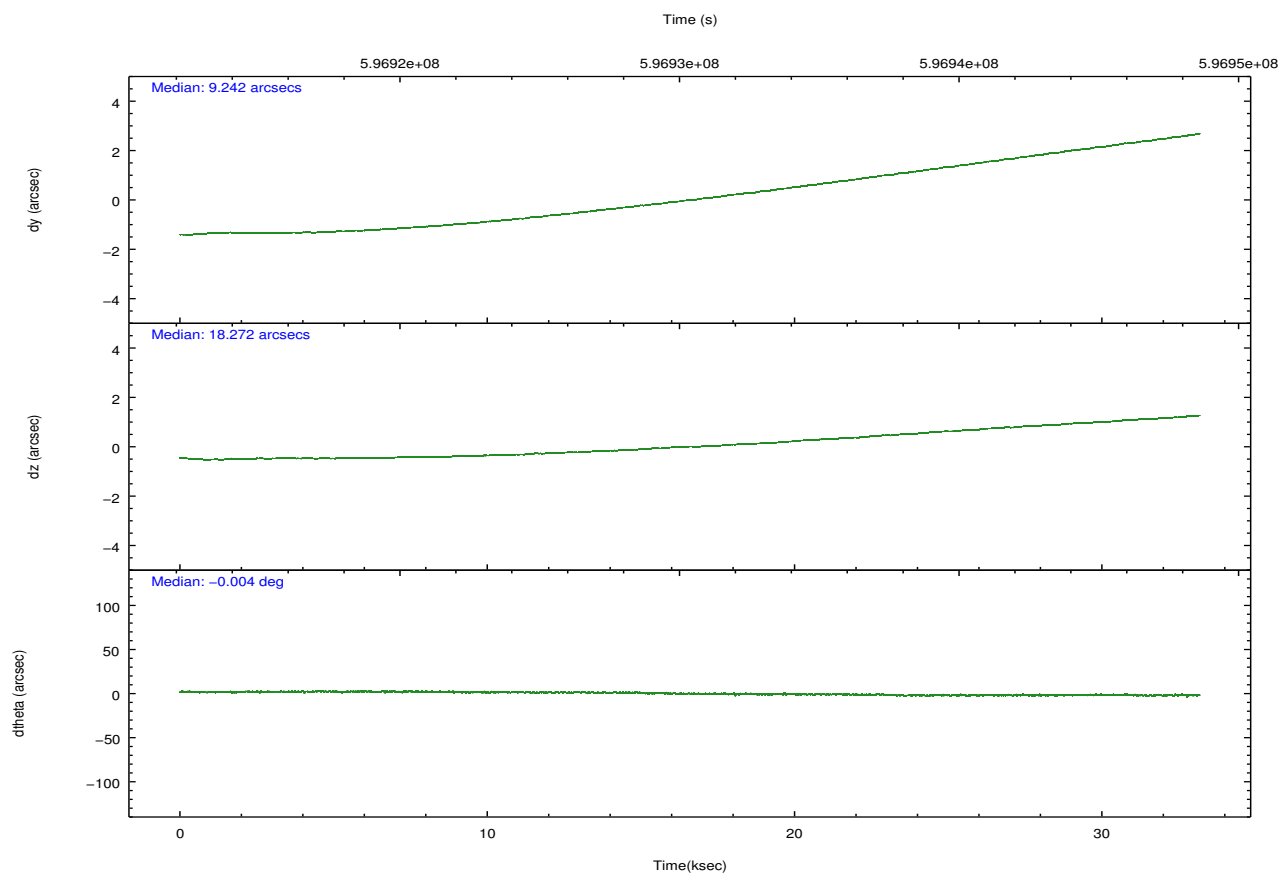
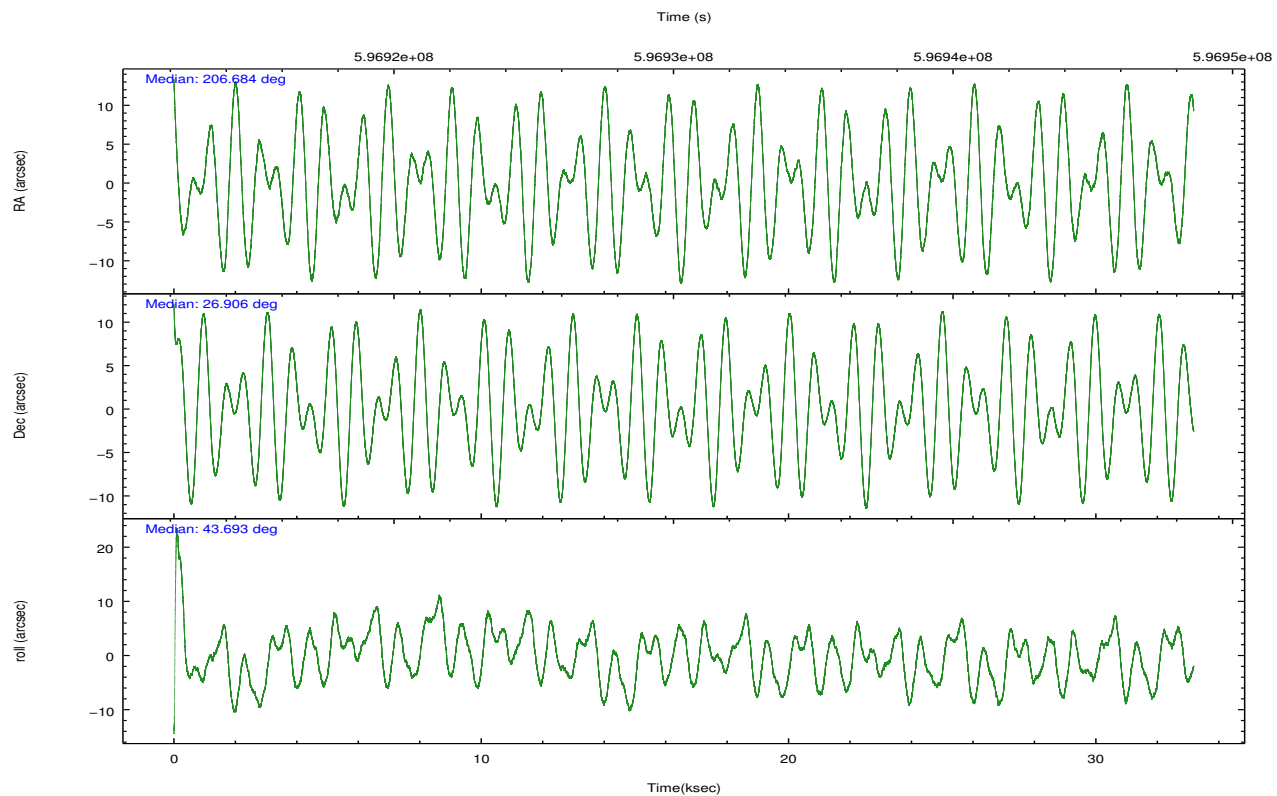
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8438	10297	8977	9518
	4%	4%	4%	4%
grade 1 events	135	124	146	150
	0%	0%	0%	0%
grade 2 events	6487	7029	6447	5320
	3%	3%	2%	2%
grade 3 events	2656	2698	2458	2500
	1%	1%	1%	1%
grade 4 events	2491	2624	2494	2506
	1%	1%	1%	1%
grade 5 events	9663	10331	9326	11008
	4%	4%	4%	5%
grade 6 events	5110	5921	4887	5012
	2%	2%	2%	2%
grade 7 events	171538	172486	186052	178616
	83%	81%	84%	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	206.675473	206.6840563138908	CCD I2 on	Y	Y
[deg] Pointing Dec	26.879871	26.90639477465876	CCD I3 on	Y	Y
[deg] Pointing Roll	43.502508	43.7072938941112	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)	596913942.184000	596912573.93207	CCD S5 on	N	N
Observation start date	2016-11-30T17:24:34	2016-11-30T17:02:53	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	596946942.184000	596947979.99661	On-chip summing requested	N	N
Observation end date	2016-12-01T02:34:34	2016-12-01T02:52:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



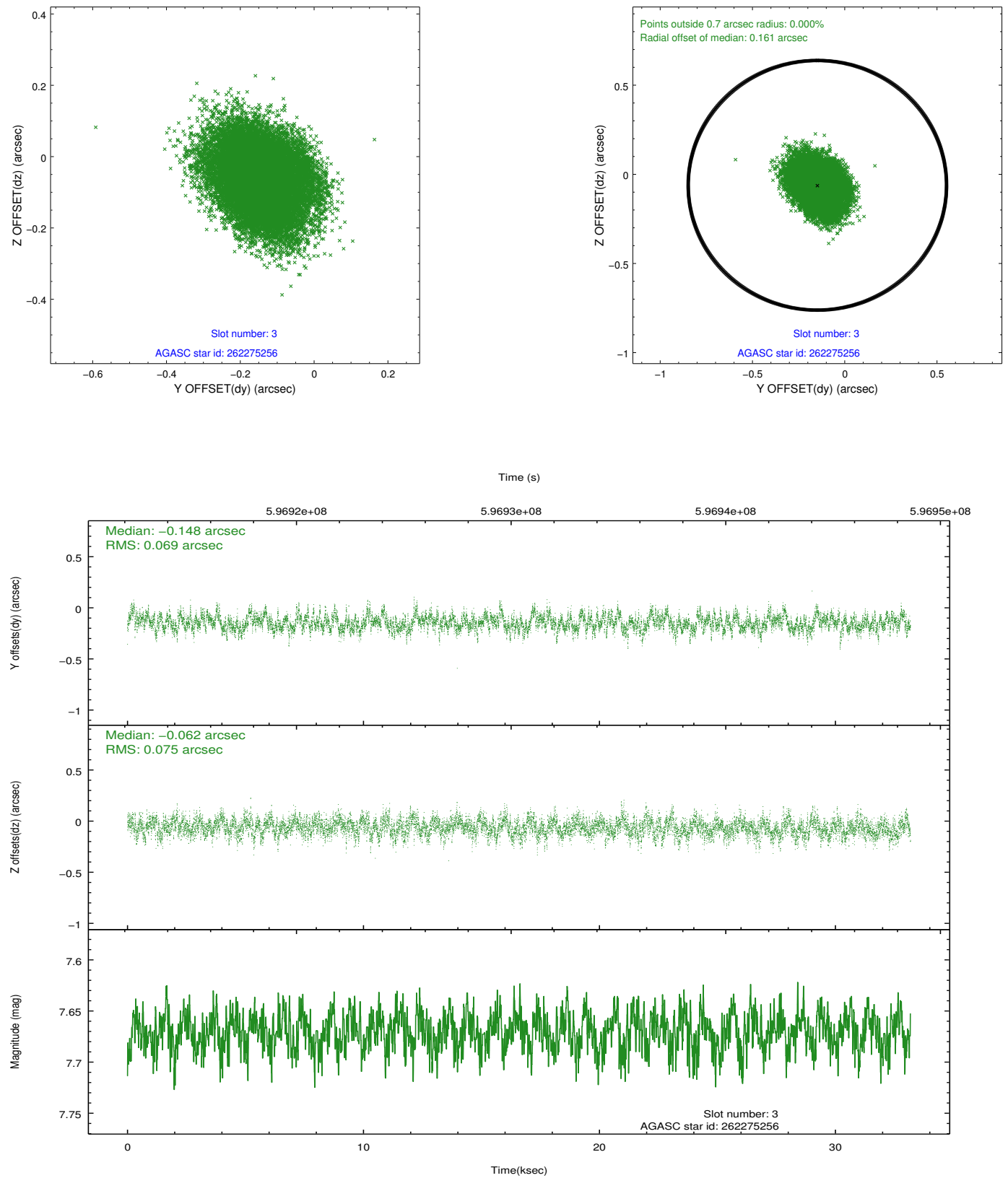


Slot Statistics

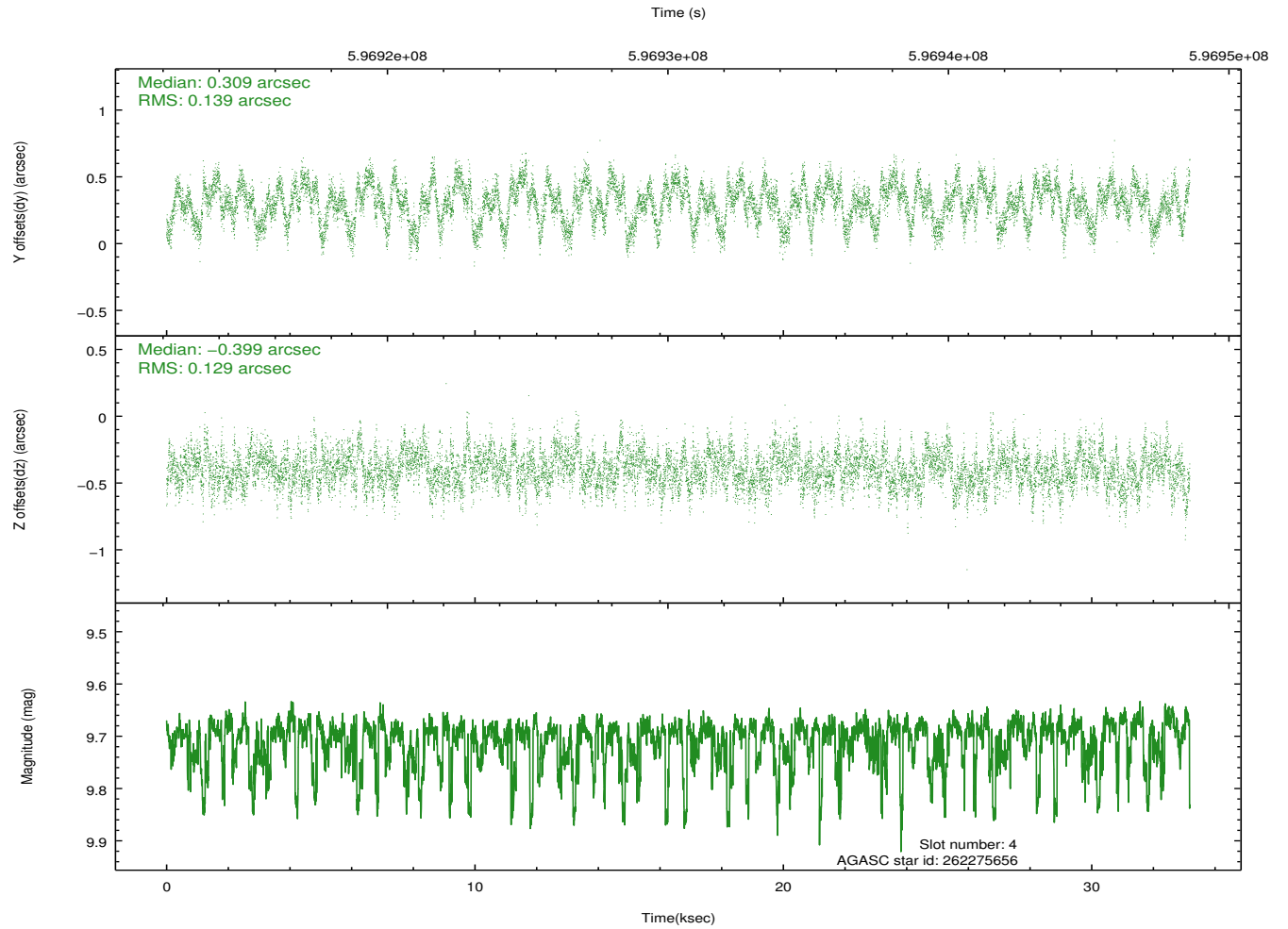
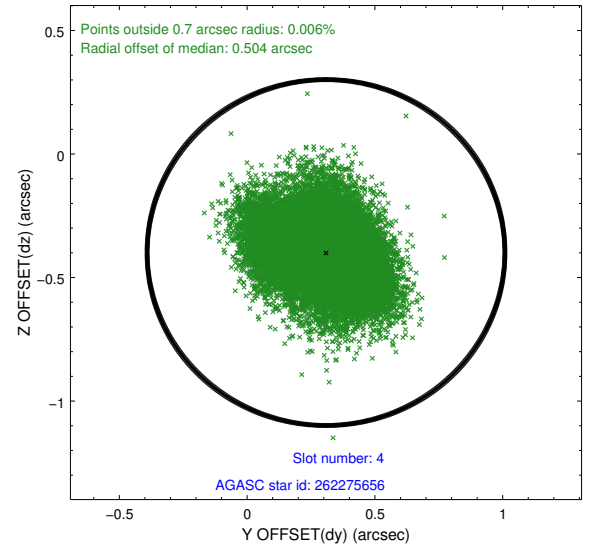
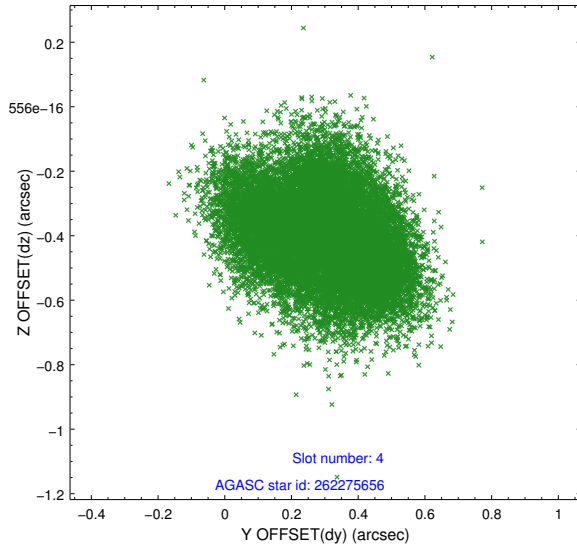
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	8094	0.063	0.016	0.033	0.040	0.000000	0.000000	930.25	-842.06
1	FID		ACIS-I-5	7.06	8094	-0.262	0.061	0.019	0.032	0.000000	0.000000	-1818.21	1055.36
2	FID		ACIS-I-6	7.06	8094	0.115	0.005	0.023	0.031	0.000000	0.000000	395.72	1699.94
3	GUIDE	used	262275256	7.67	16184	-0.148	-0.062	0.108	0.176	206.467522	27.226414	376.30	1363.61
4	GUIDE	used	262275656	9.70	16167	0.309	-0.399	0.206	0.321	206.225445	27.194903	-262.44	1816.11
5	GUIDE	used	262408096	9.33	16163	0.139	0.370	0.177	0.283	207.011678	26.515421	-115.87	-1695.13
6	GUIDE	used	262408936	9.61	16164	-0.139	0.282	0.161	0.269	207.154731	26.726554	740.57	-1459.03
7	GUIDE	used	262409552	8.13	16184	-0.158	-0.195	0.113	0.181	206.584269	27.192805	563.53	1018.04

2.4 Star Slots

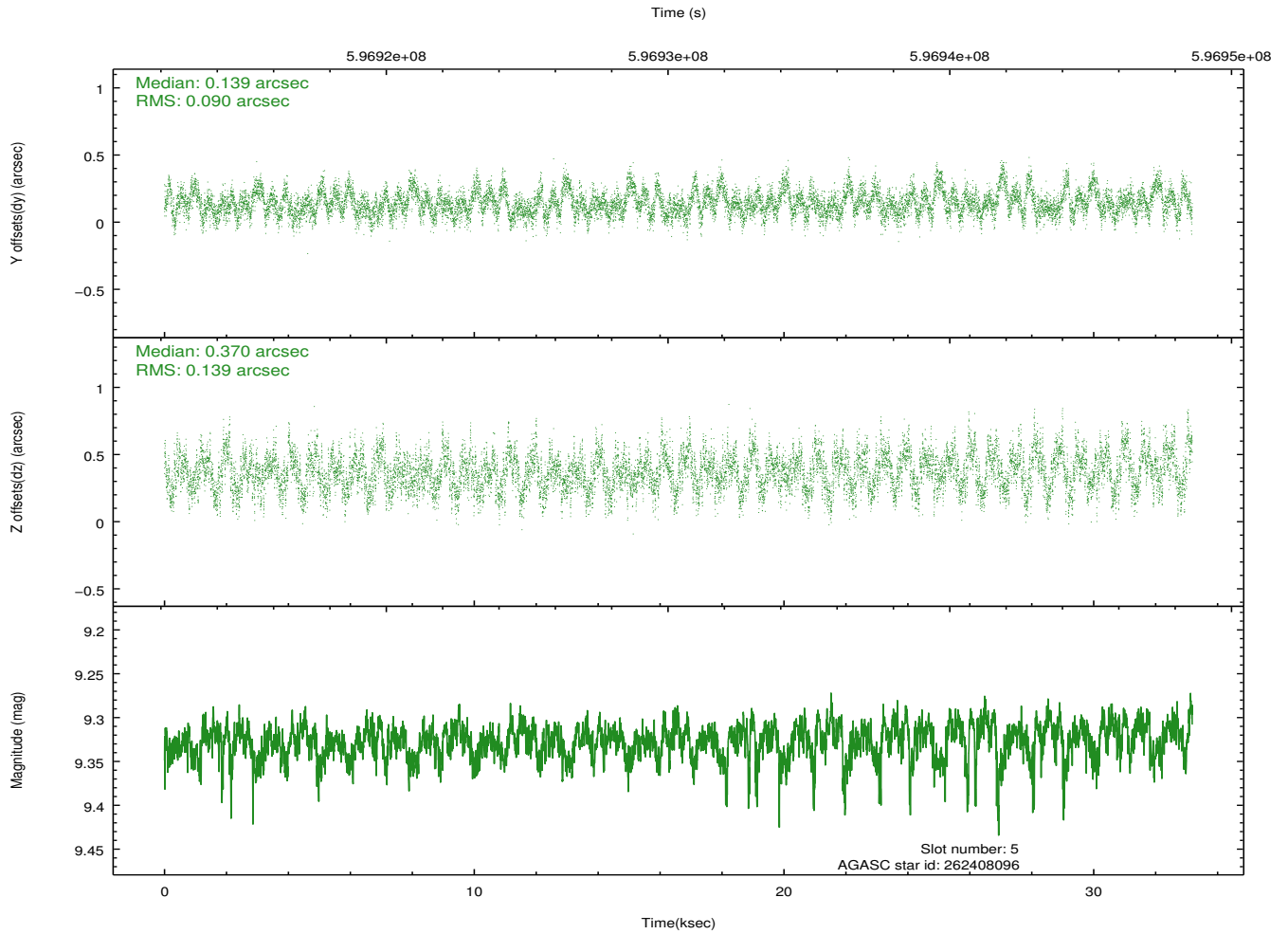
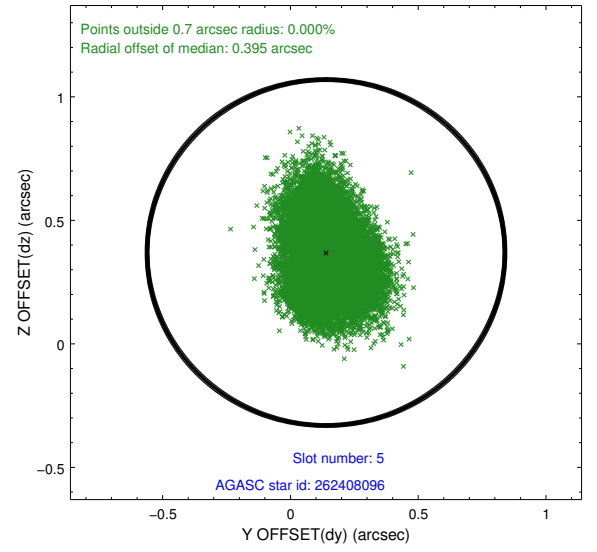
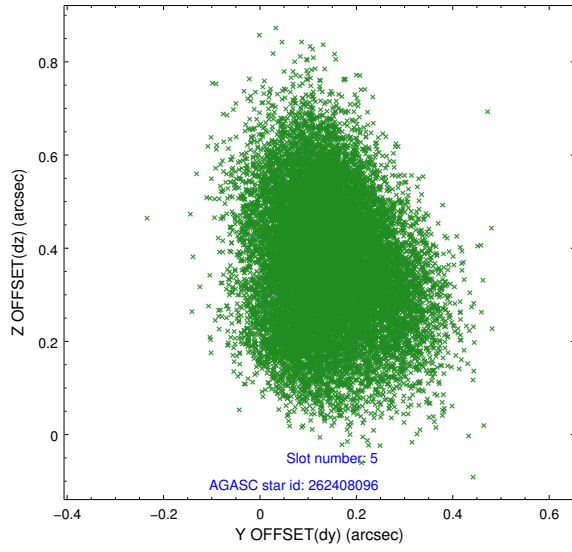
2.4.1 Slot 3



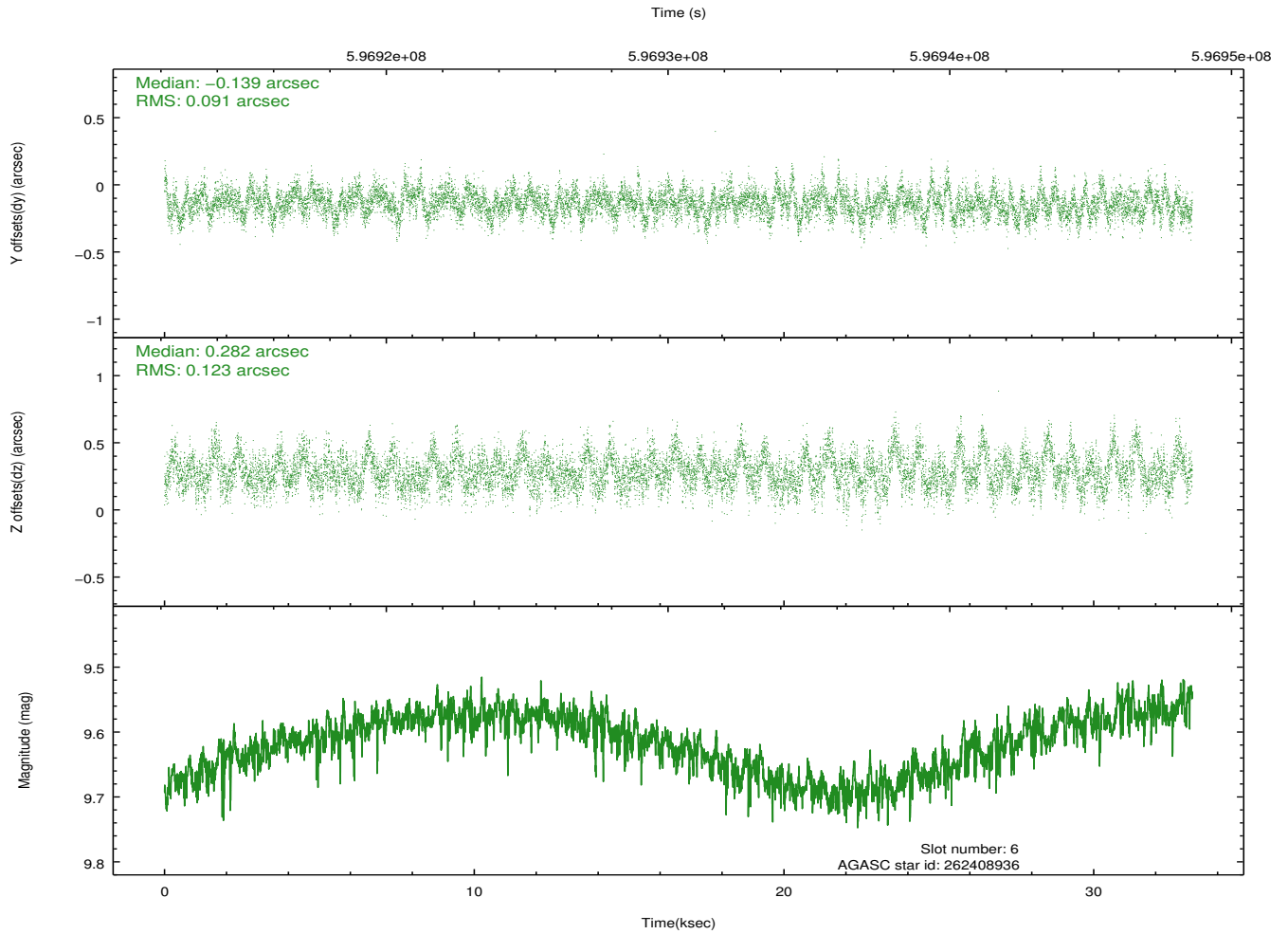
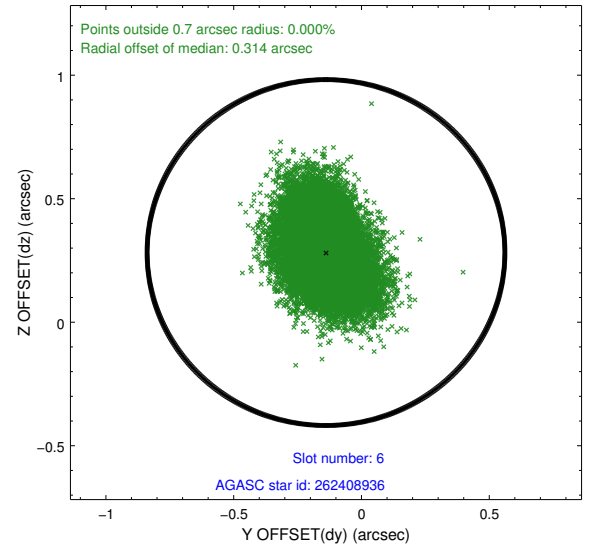
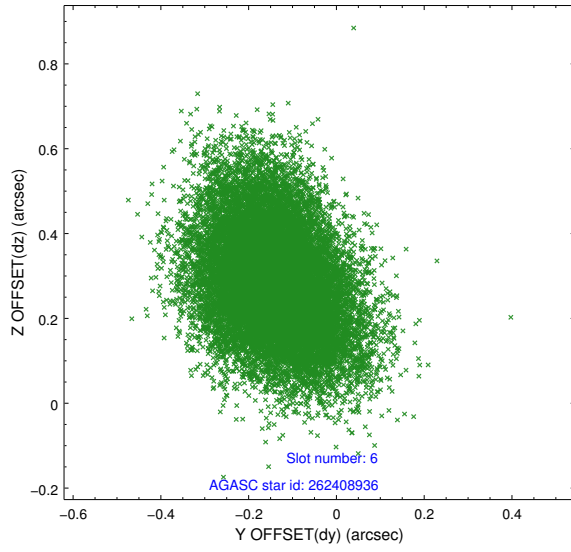
2.4.2 Slot 4



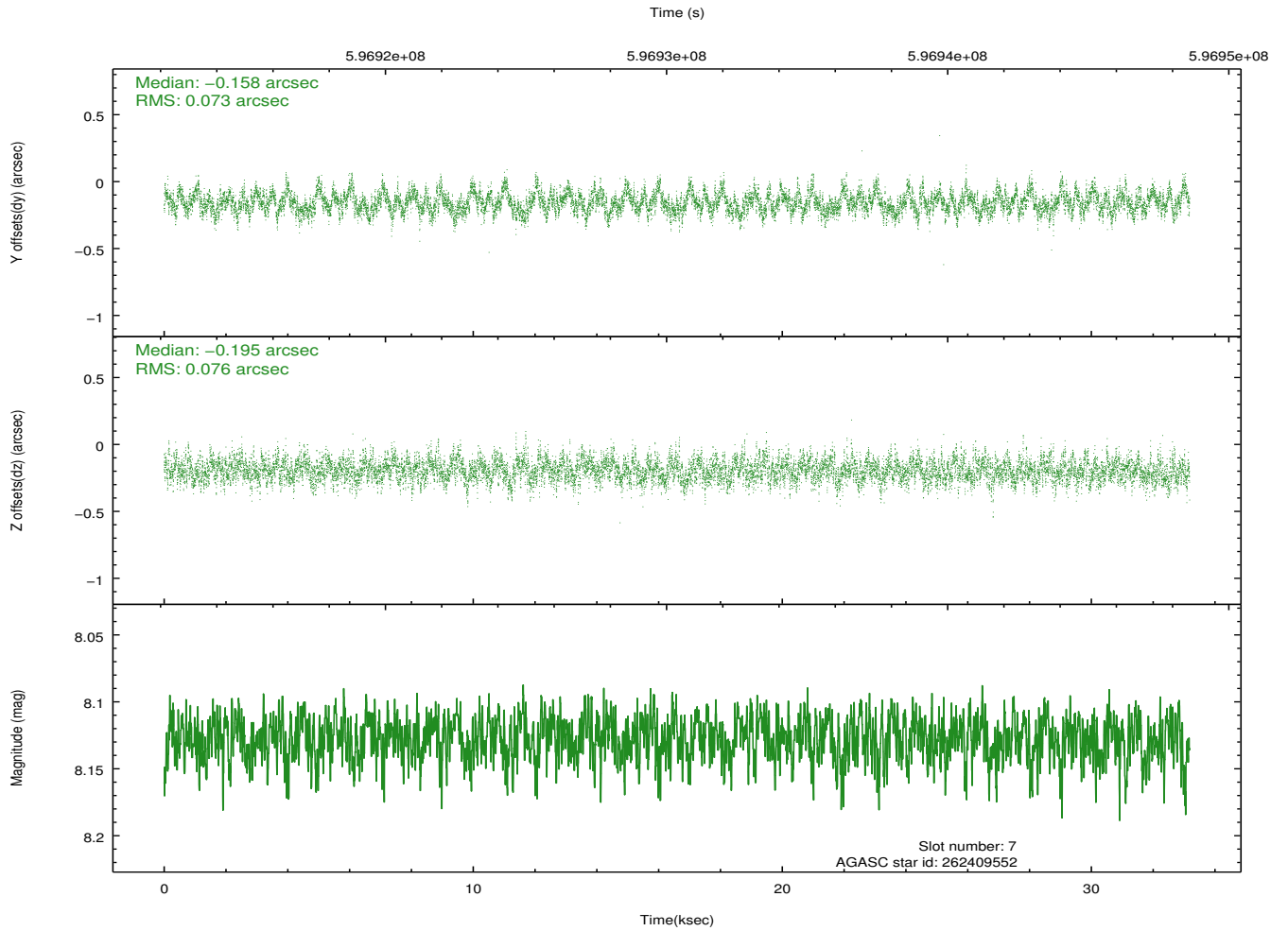
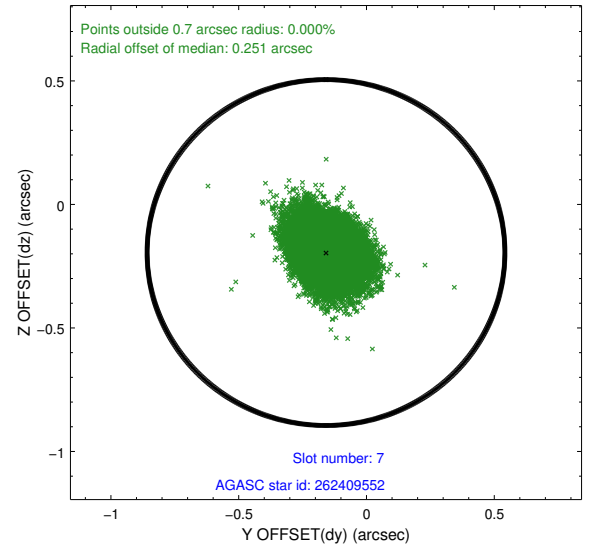
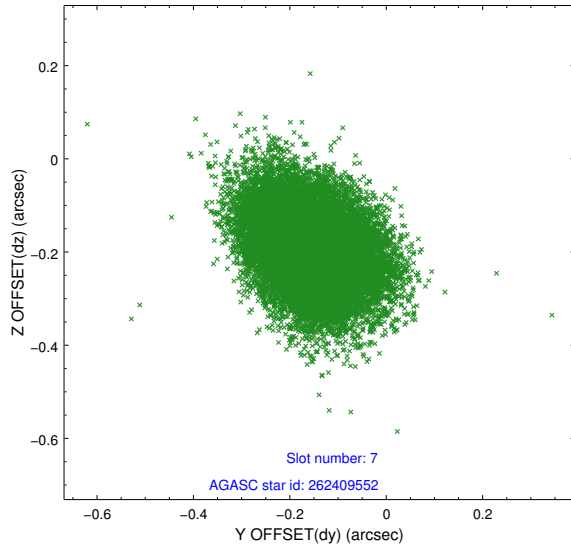
2.4.3 Slot 5



2.4.4 Slot 6

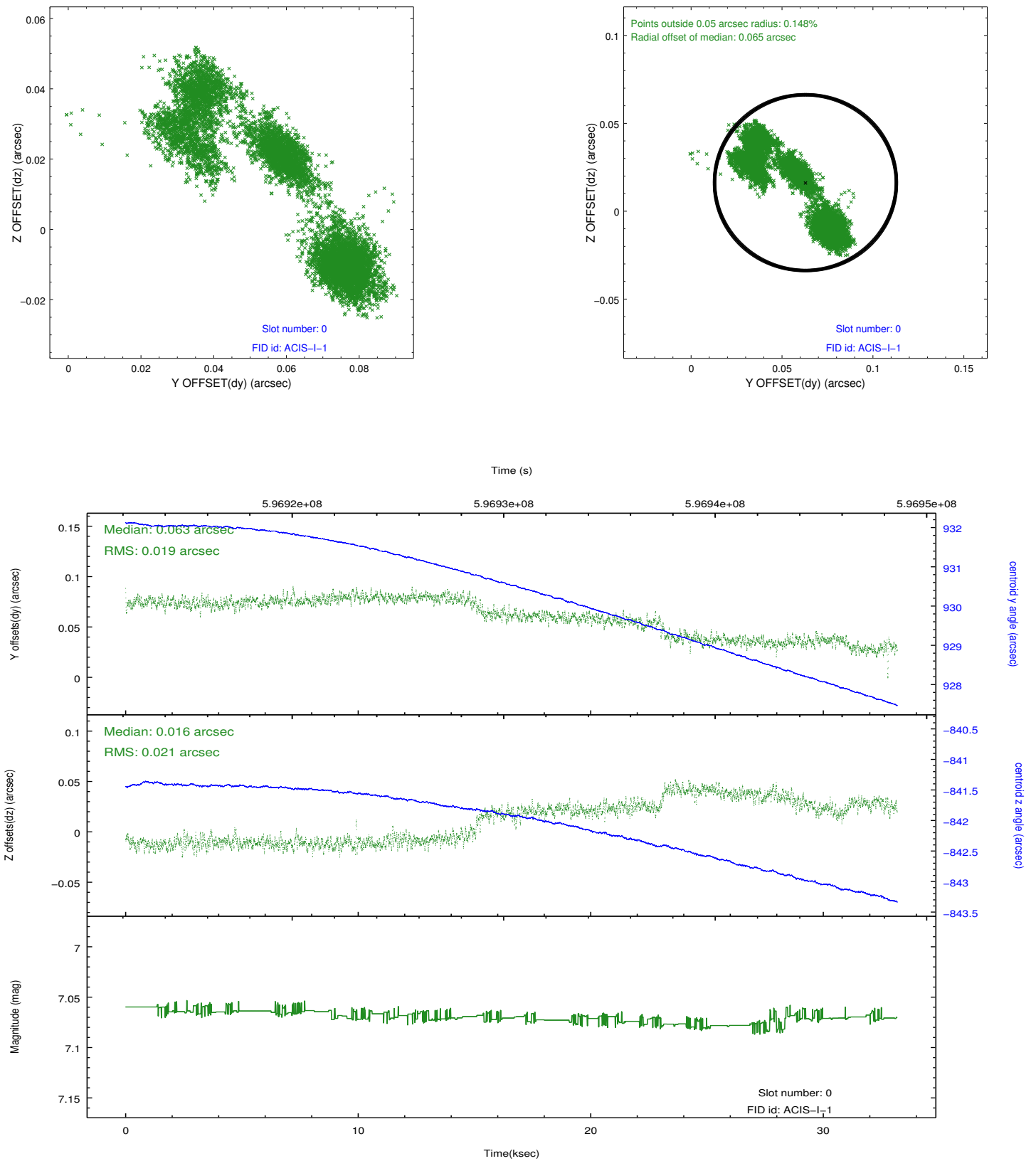


2.4.5 Slot 7

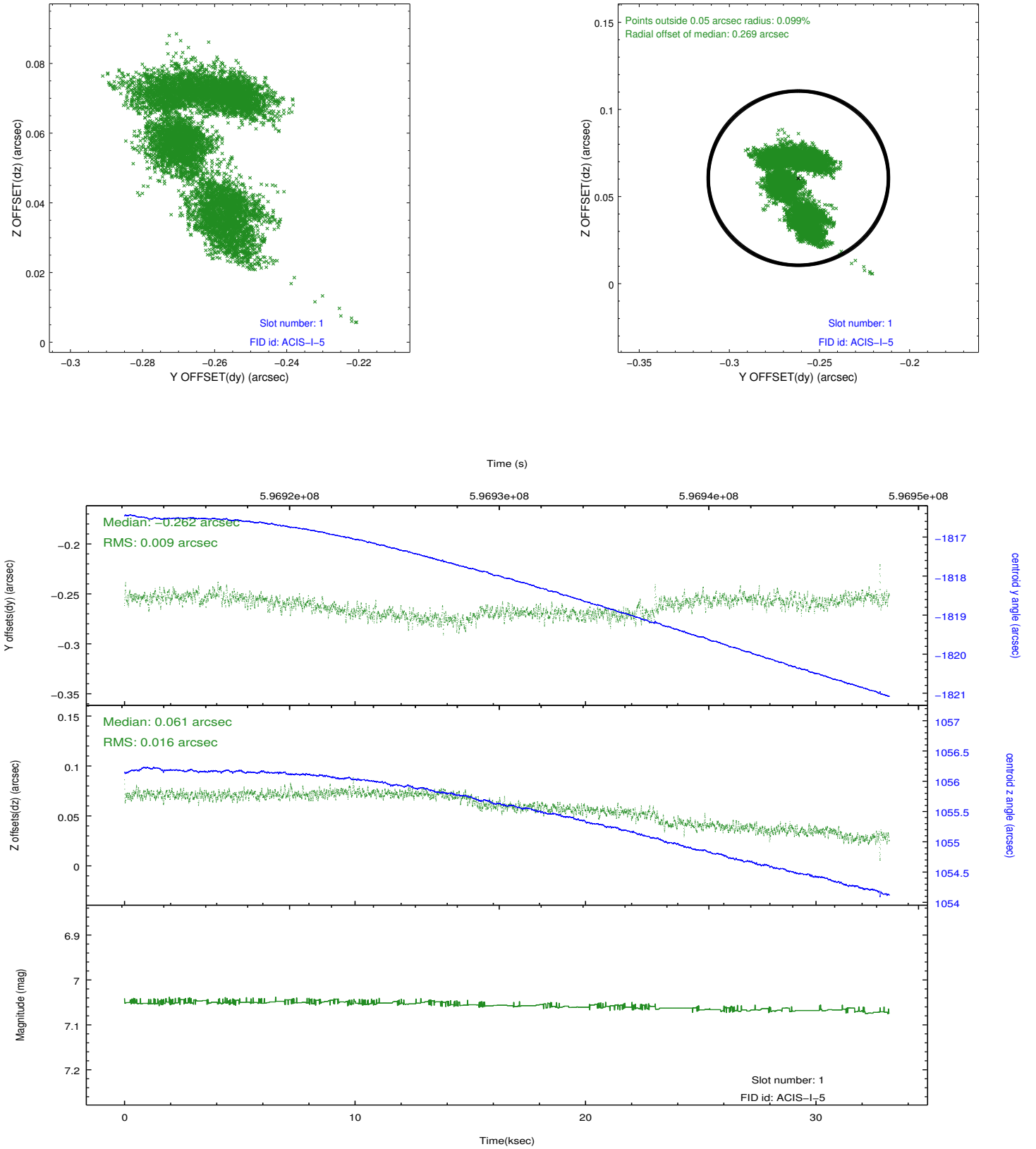


2.5 FID Slots

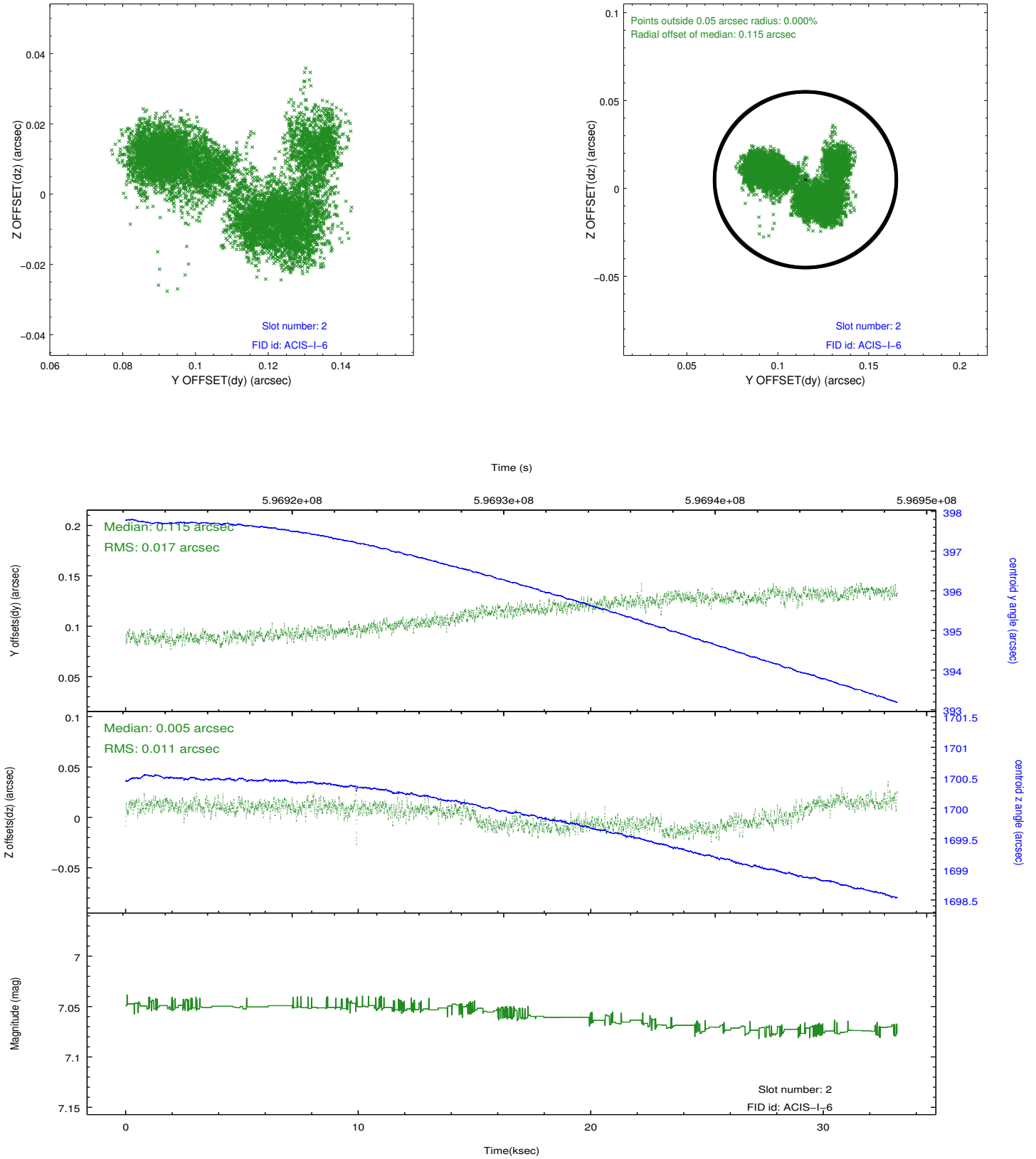
2.5.1 Slot 0



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)	2016.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.067536453128

A.2 Comments

One optional chip was dropped.