

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21857 - L2 Version 1
Chandra X-Ray Center

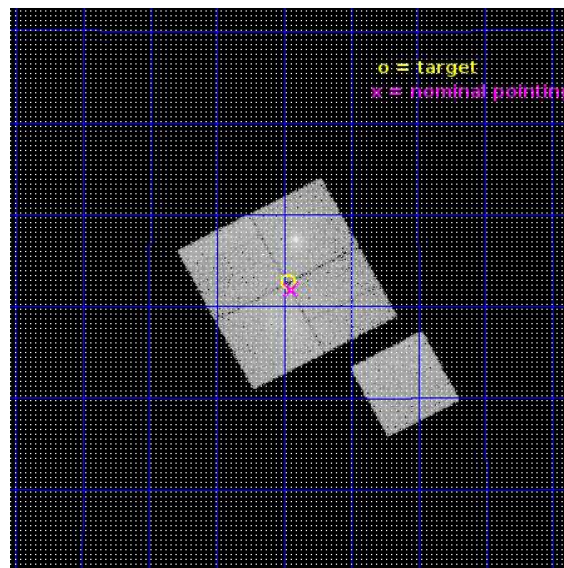
L2 Processing Date : Sep 30 2018

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1 Front

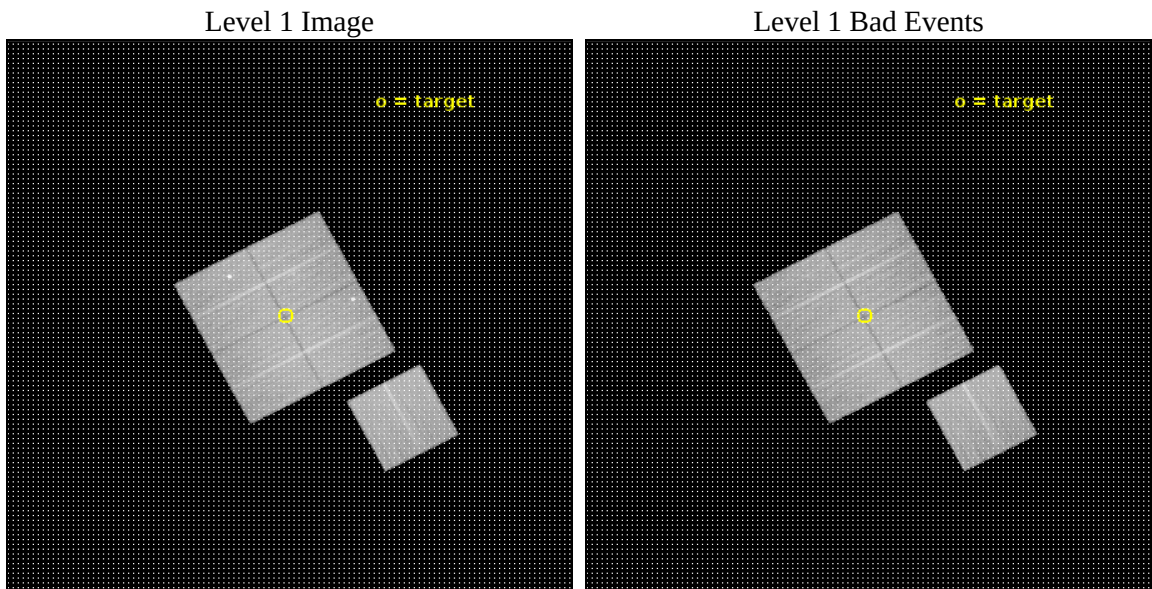
seq_num	801818	Sequence number
obs_id	21857	Observation id
title	Deep Chandra Observations of the Shock Front and Faint Filament in the Pre-Merger Cluster Abell 98	Proposal title
observer	Scott Randall	Principal investigator
object	Abell 98	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.615833	Observer's specified target RA [deg]
dec_targ	20.544667	Observer's specified target Dec [deg]
ra_nom	11.611042599244	Nominal RA [deg]
dec_nom	20.530255418658	Nominal Dec [deg]
roll_nom	152.21036539455	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31067.512230992	Sum of GTIs [s]
livetime	30661.592312125	Livetime [s]
ontime0	31070.61224103	Sum of GTIs [s]
ontime1	31067.512230992	Sum of GTIs [s]
ontime2	31067.553290725	Sum of GTIs [s]
ontime3	31067.594290614	Sum of GTIs [s]
ontime6	31064.289060593	Sum of GTIs [s]
l2events	120293	Number of level 2 events



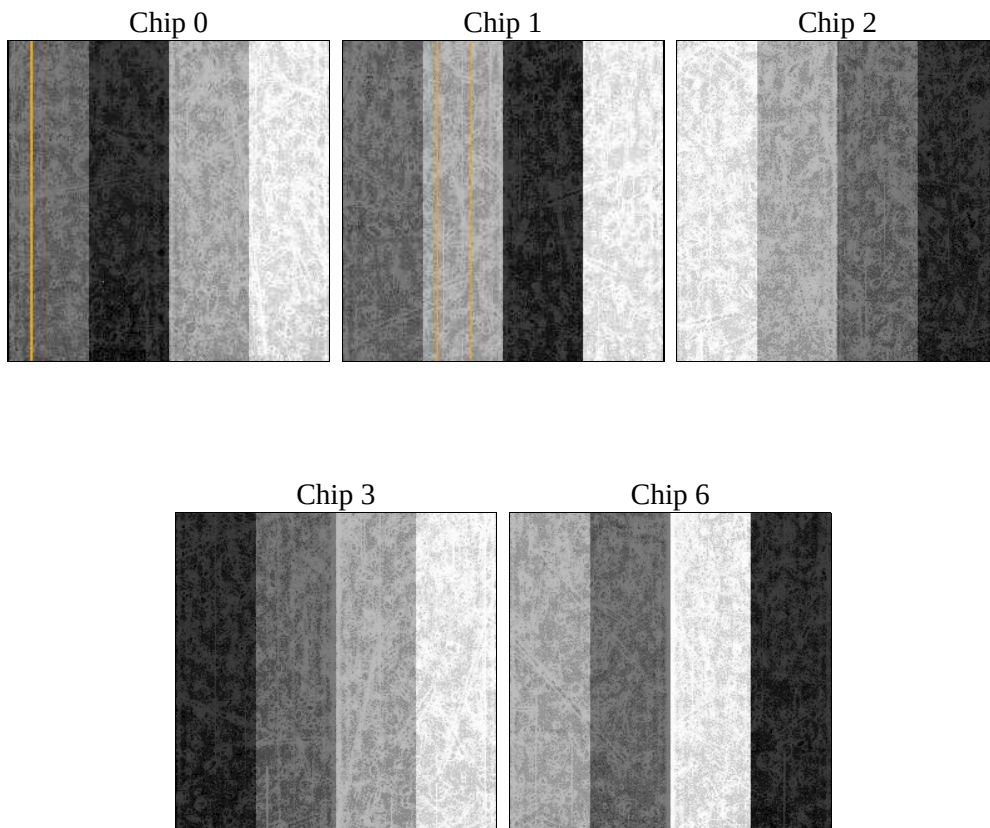
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	31067.512230992	Sum of GTIs [s]
caldsver	4.8.0	 	ontime0	31070.61224103	Sum of GTIs [s]
date	2018-10-01T01:26:16	Date and time of file creation	ontime1	31067.512230992	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31067.553290725	Sum of GTIs [s]
			ontime3	31067.594290614	Sum of GTIs [s]
			ontime6	31064.289060593	Sum of GTIs [s]
			l1events	1179590	Number of level 1 events

2.1.4 Events

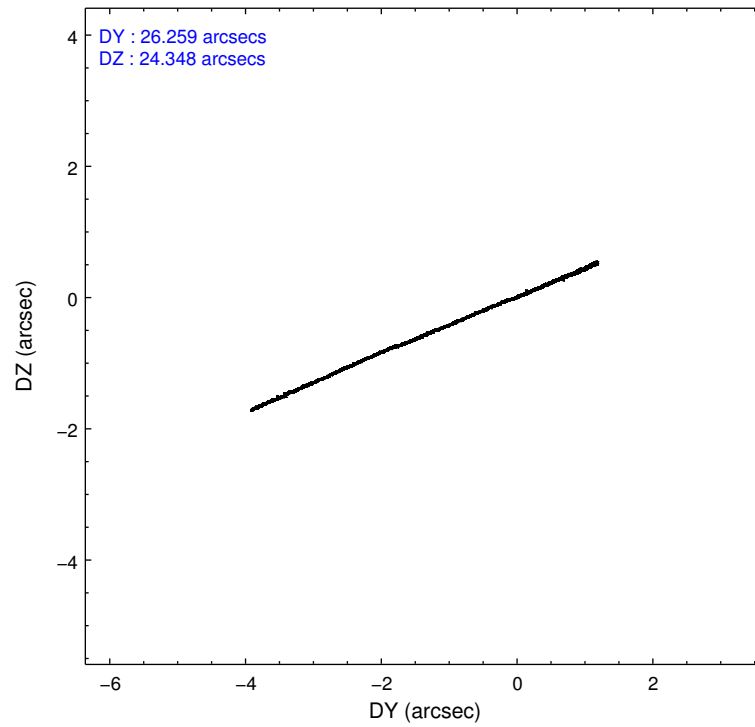
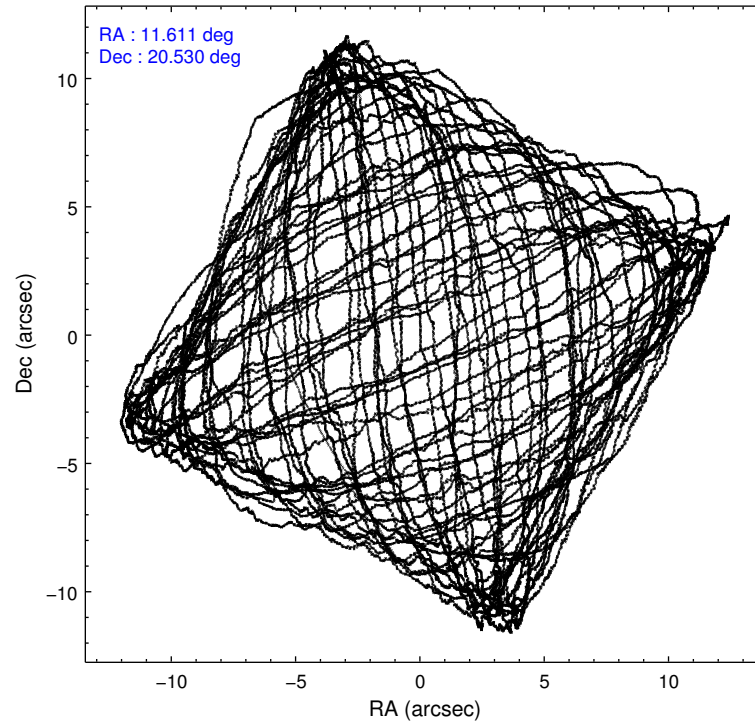
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	224673	229464	247823	238559	239071
rejected events	193958	194694	217512	209987	212579
rejected %	86%	84%	87%	88%	88%

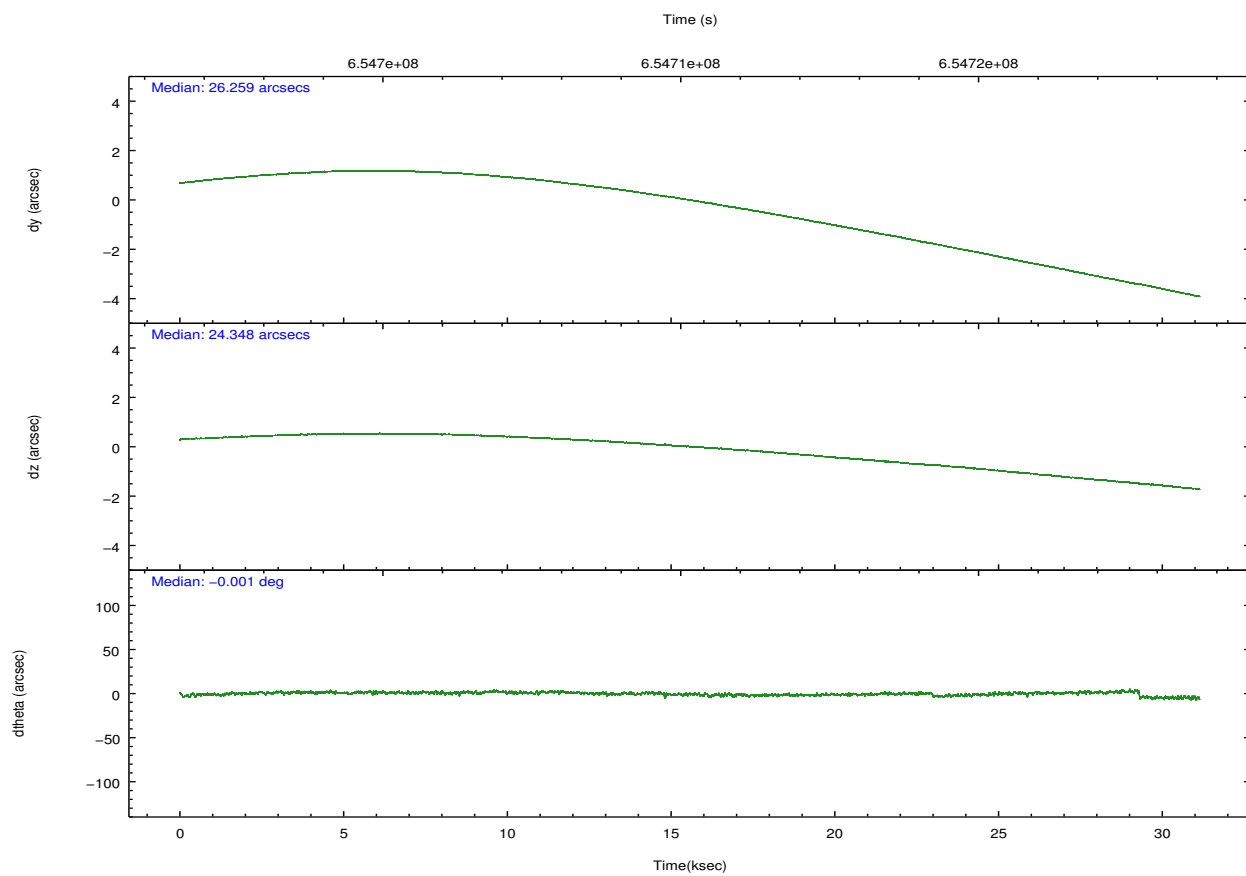
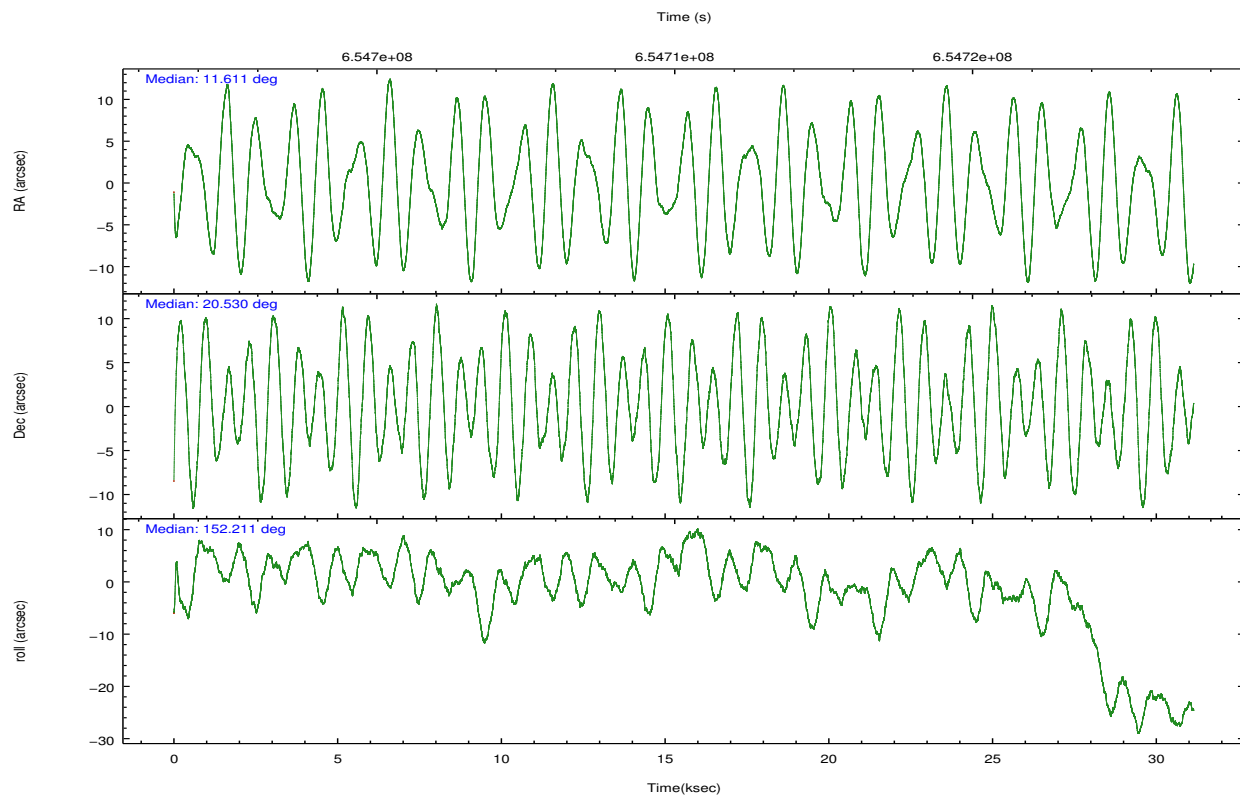
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12563	15614	13691	11820	8384
	5%	6%	5%	4%	3%
grade 1 events	152	147	155	160	124
	0%	0%	0%	0%	0%
grade 2 events	7103	7076	6314	5847	6556
	3%	3%	2%	2%	2%
grade 3 events	2752	2780	2561	2709	2538
	1%	1%	1%	1%	1%
grade 4 events	2657	2725	2684	2699	2599
	1%	1%	1%	1%	1%
grade 5 events	9936	10098	9413	11173	10600
	4%	4%	3%	4%	4%
grade 6 events	5643	6579	5062	5499	6416
	2%	2%	2%	2%	2%
grade 7 events	183867	184445	207943	198652	201854
	81%	80%	83%	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	11.640492	11.61104259924416	CCD I2 on	Y	Y
[deg] Pointing Dec	20.531425	20.53025541865755	CCD I3 on	Y	Y
[deg] Pointing Roll	151.991355	152.2103653945495	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	Y
[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)	654694864.184000	654693810.69374	CCD S5 on	N	N
Observation start date	2018-09-30T11:39:55	2018-09-30T11:23:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	654725864.184000	654726299.09567	On-chip summing requested	N	N
Observation end date	2018-09-30T20:16:35	2018-09-30T20:24:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



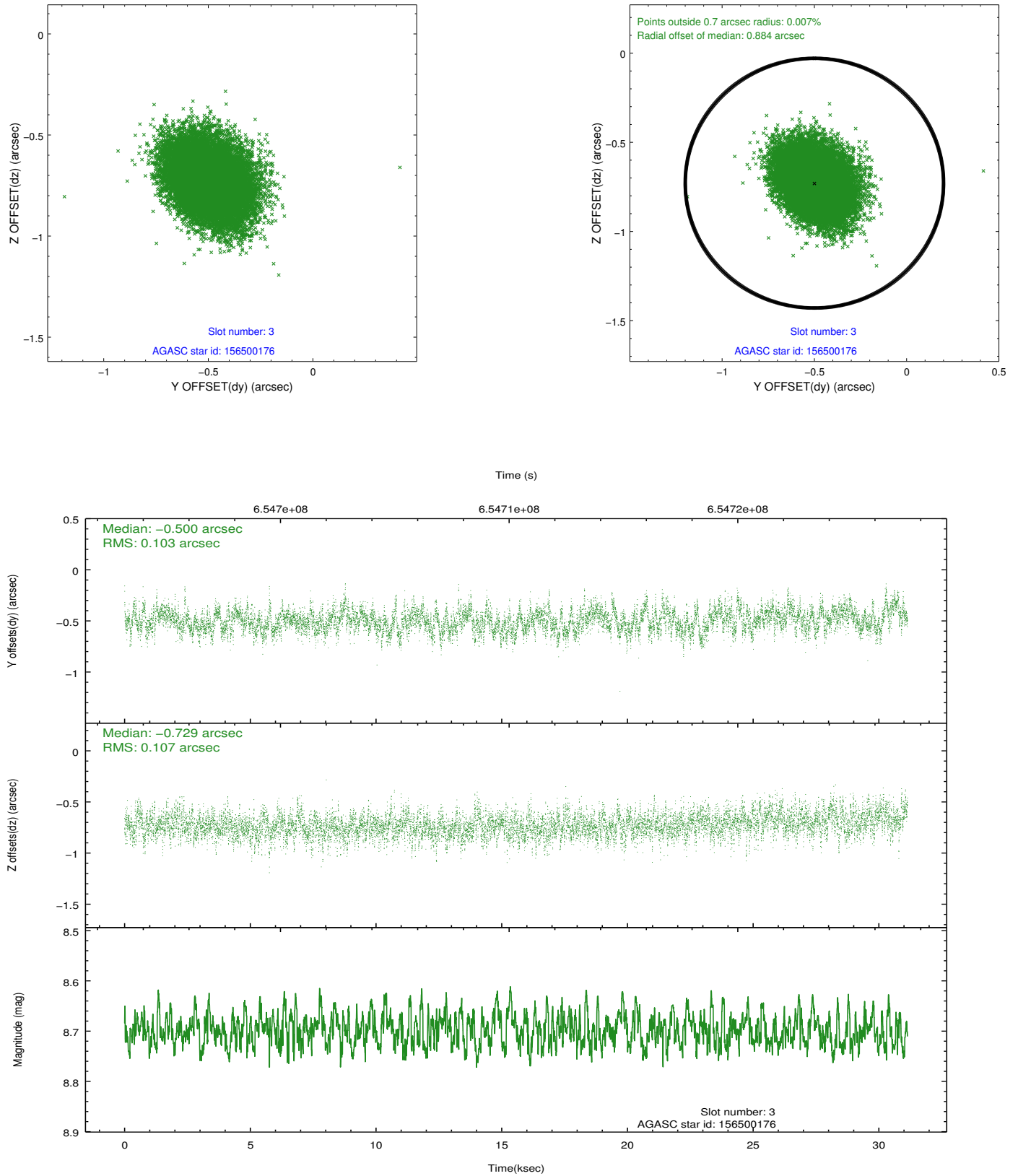


Slot Statistics

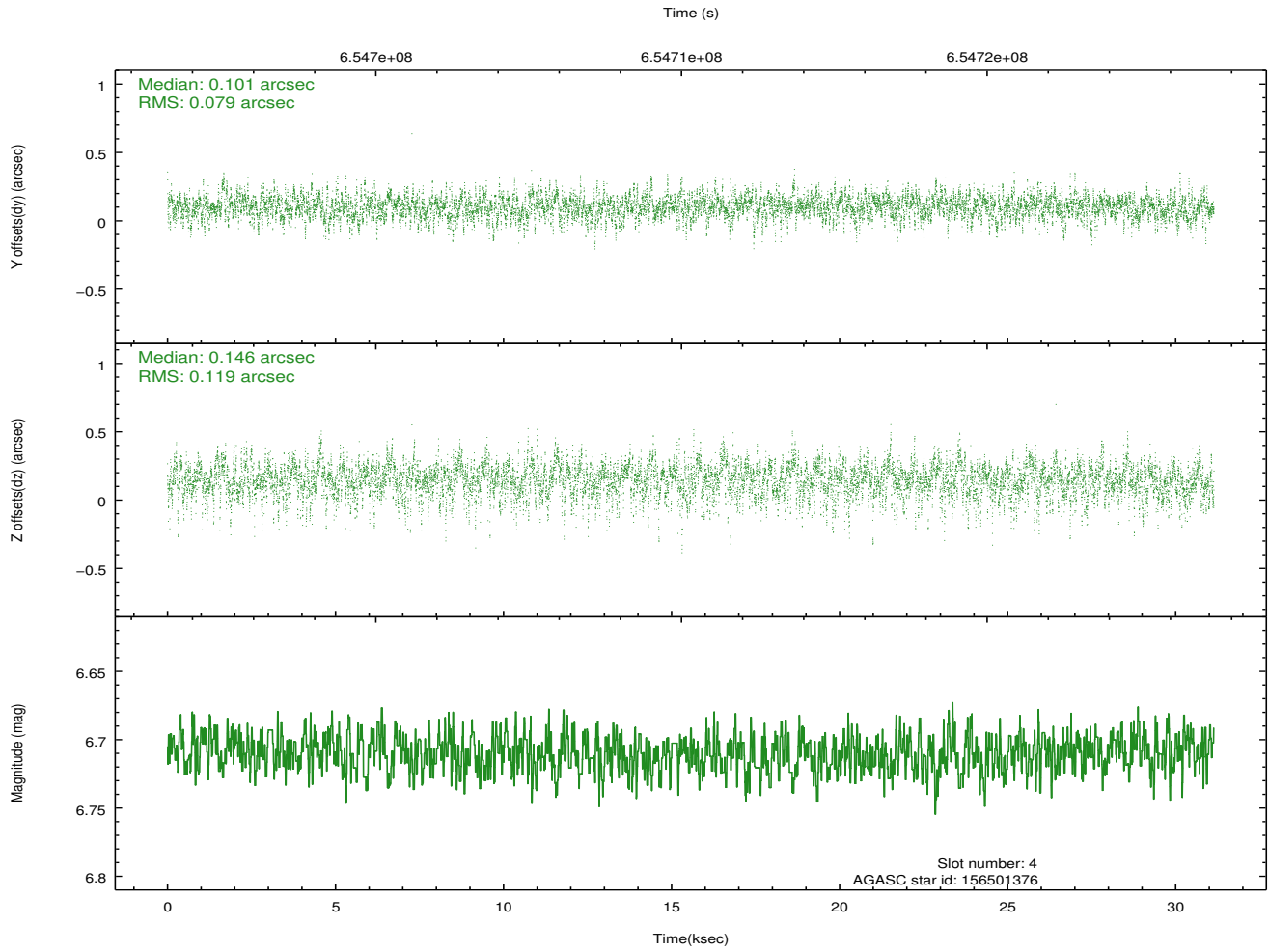
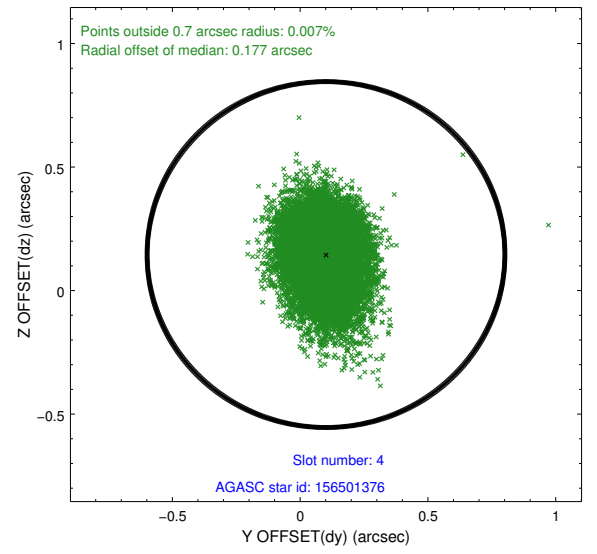
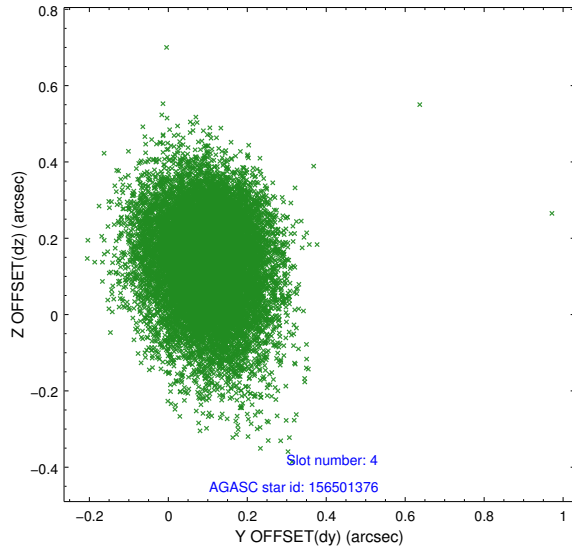
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	7596	1.000	-0.047	0.052	0.016	0.076	0.000000	0.000000	913.37	-847
1	FID		ACIS-I-2	7.10	7596	1.000	-0.491	-0.302	0.015	0.034	0.000000	0.000000	-781.13	-854
2	FID		ACIS-I-4	7.16	7595	1.000	0.442	0.318	0.018	0.041	0.000000	0.000000	2133.73	1052
3	GUIDE	used	156500176	8.70	15171	1.000	-0.500	-0.729	0.156	0.259	11.171670	20.448926	1255.07	1004
4	GUIDE	used	156501376	6.71	15191	1.000	0.101	0.146	0.147	0.255	11.978451	20.925347	-338.26	-1787
5	GUIDE	used	156502176	8.02	15183	1.000	0.224	0.221	0.141	0.239	11.982190	21.024044	-179.63	-2104
6	GUIDE	used	156504328	9.24	15176	1.000	0.289	0.543	0.224	0.353	12.430893	20.736850	-1998.36	-1906
7	GUIDE	used	156509336	7.45	15191	1.000	-0.108	-0.173	0.127	0.217	12.201488	20.214746	-2206.58	114

2.4 Star Slots

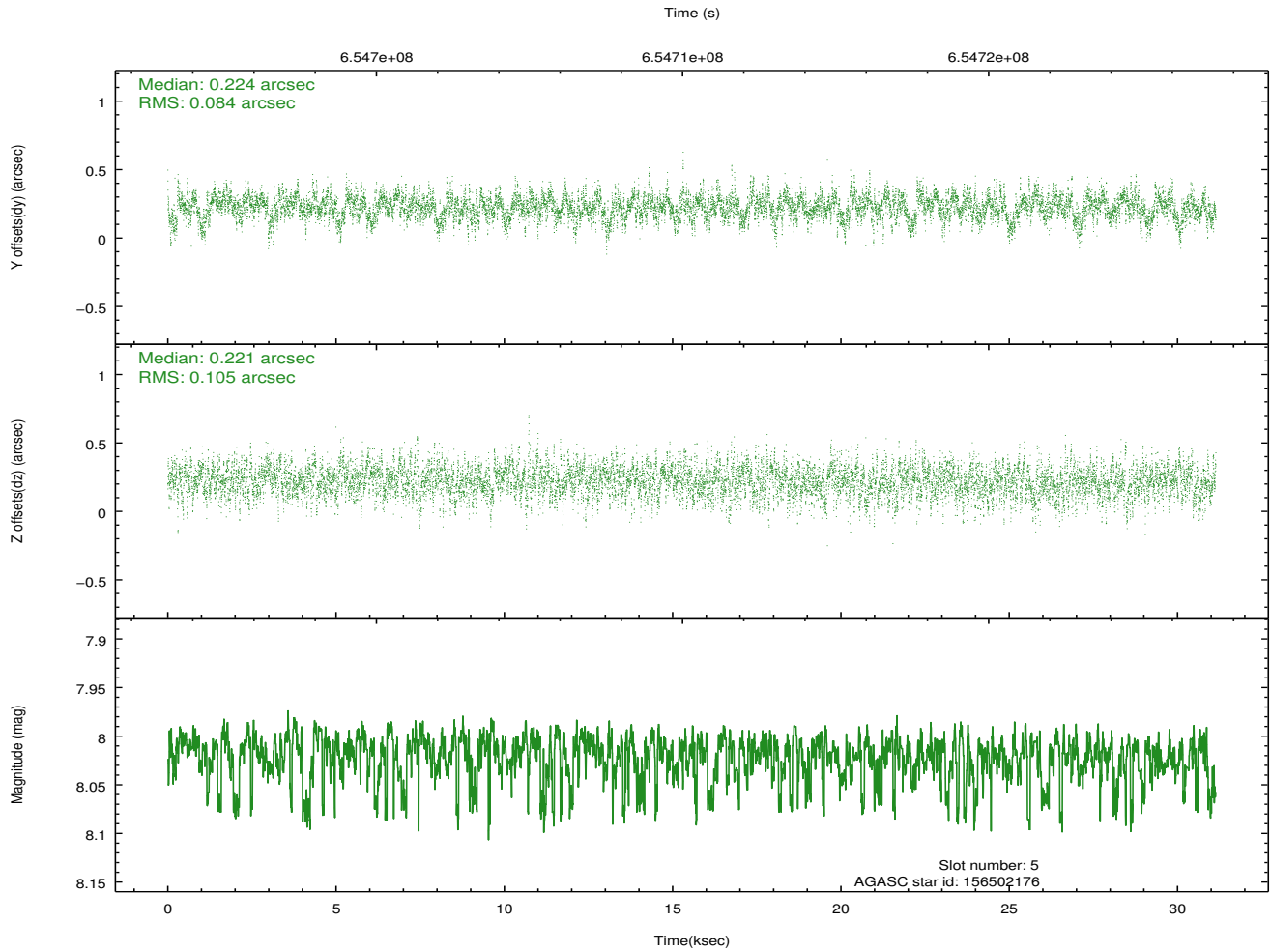
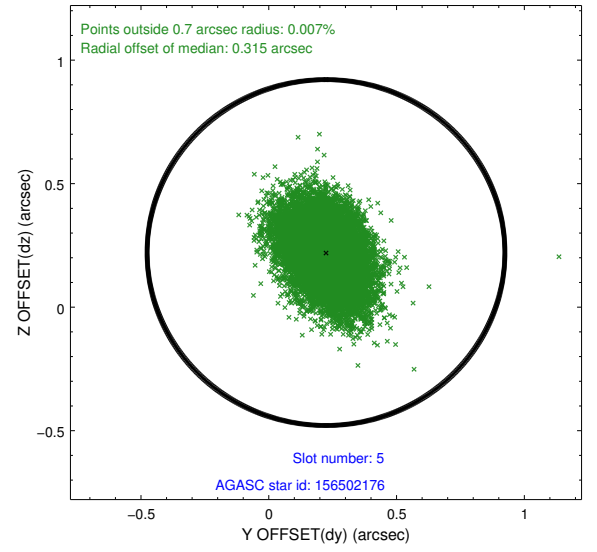
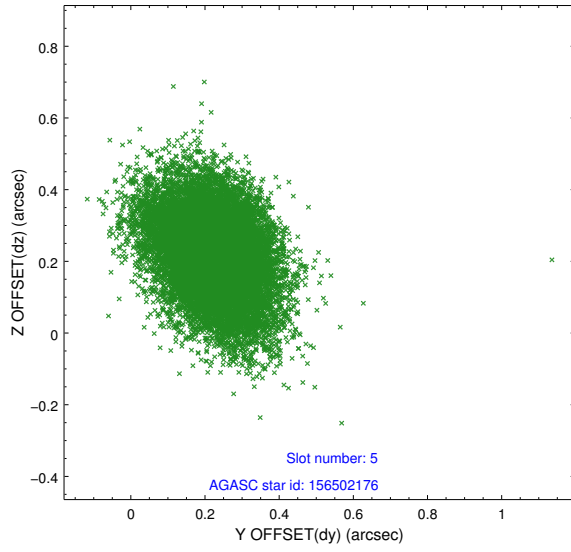
2.4.1 Slot 3



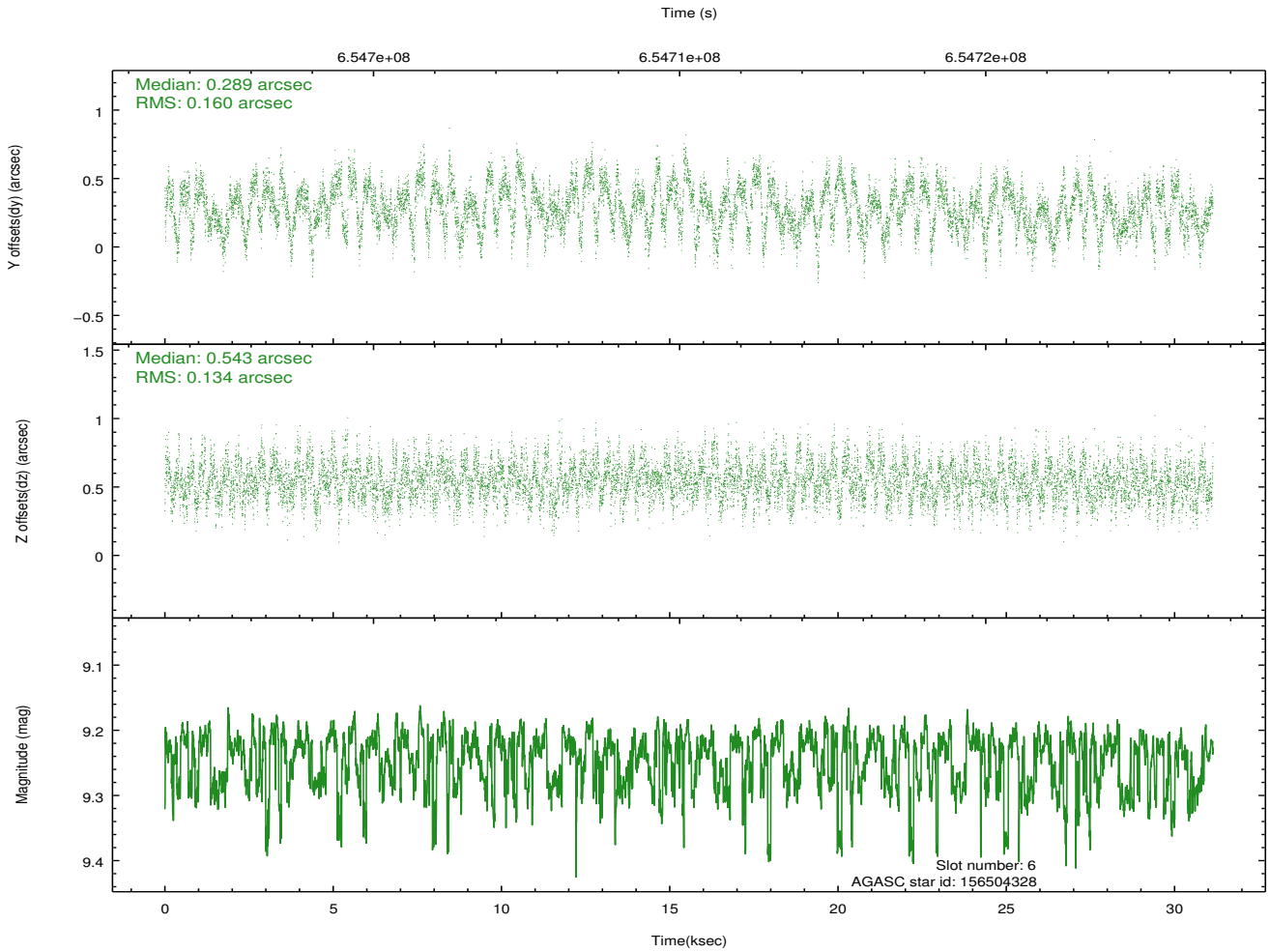
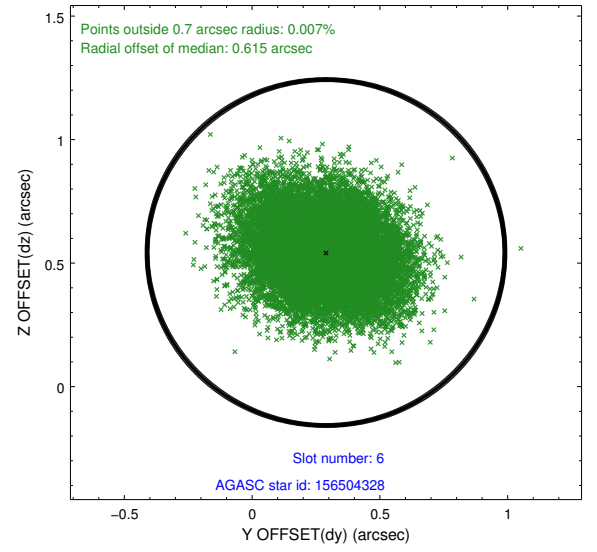
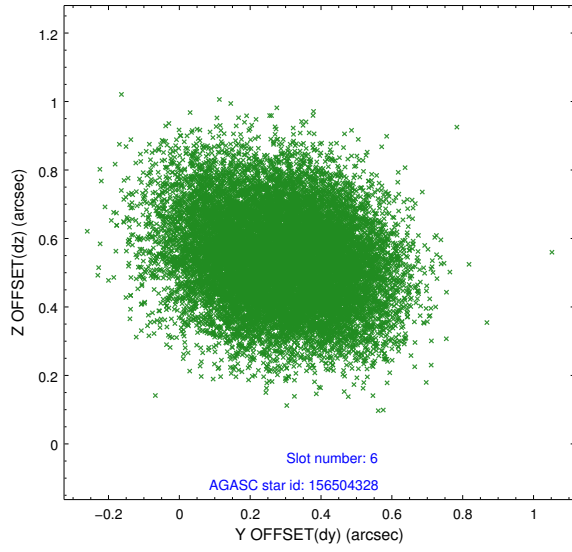
2.4.2 Slot 4



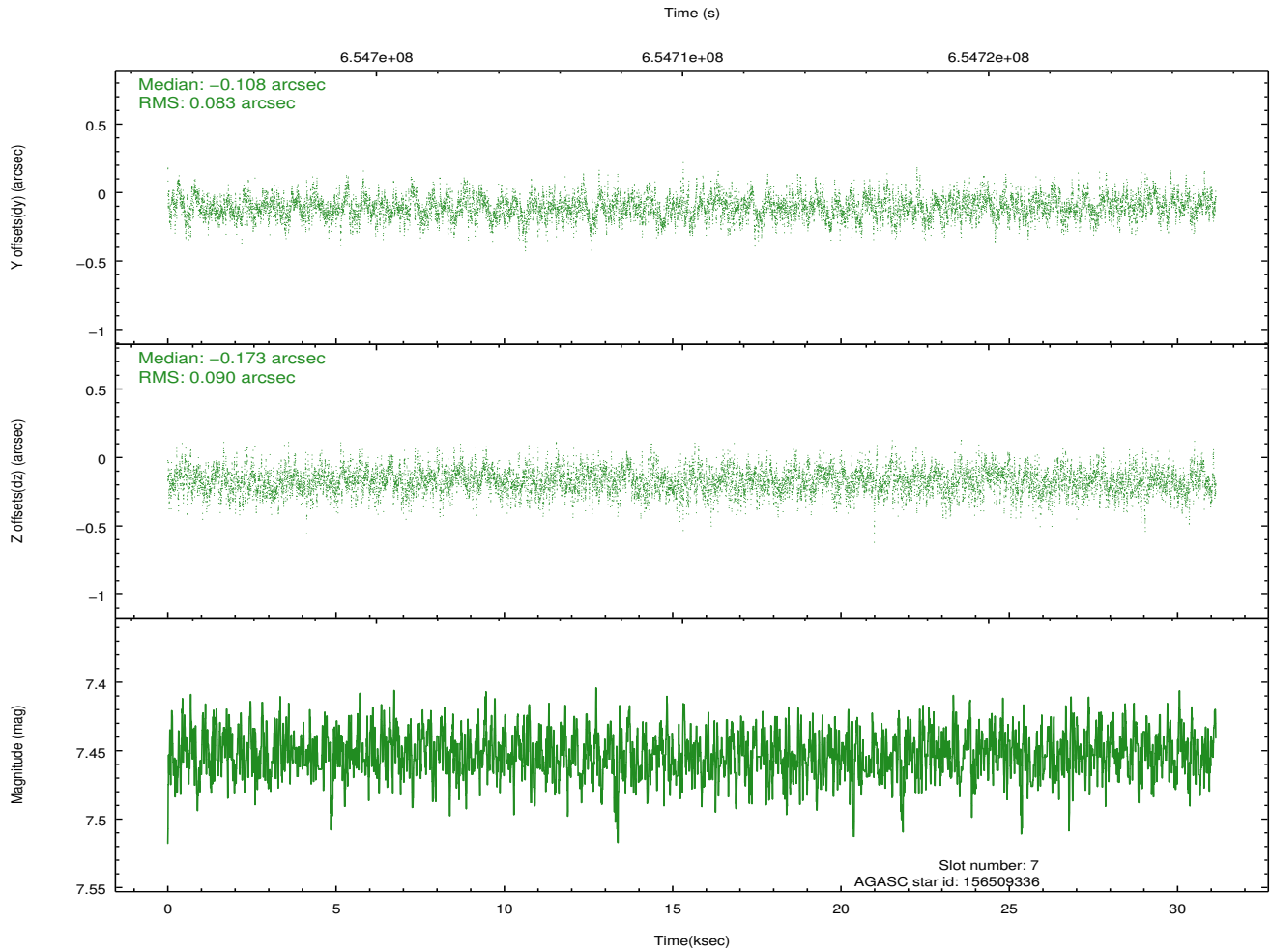
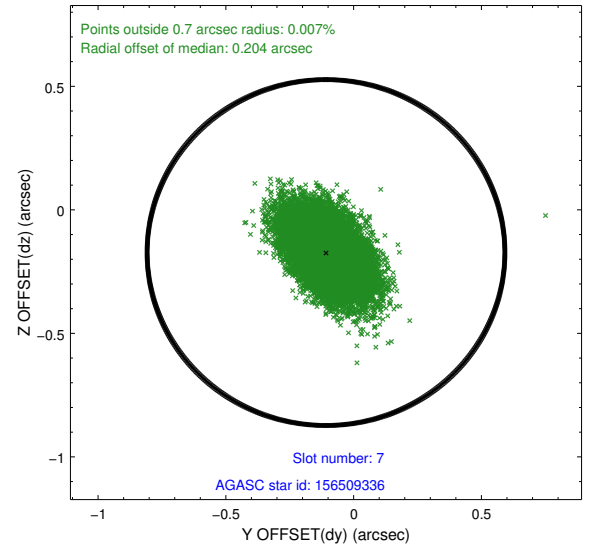
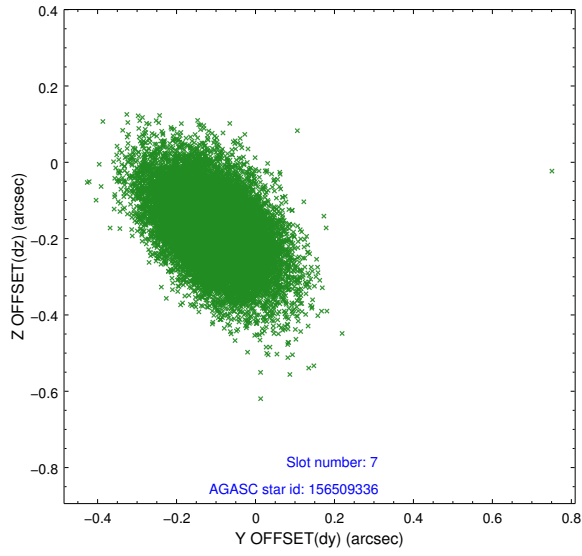
2.4.3 Slot 5



2.4.4 Slot 6

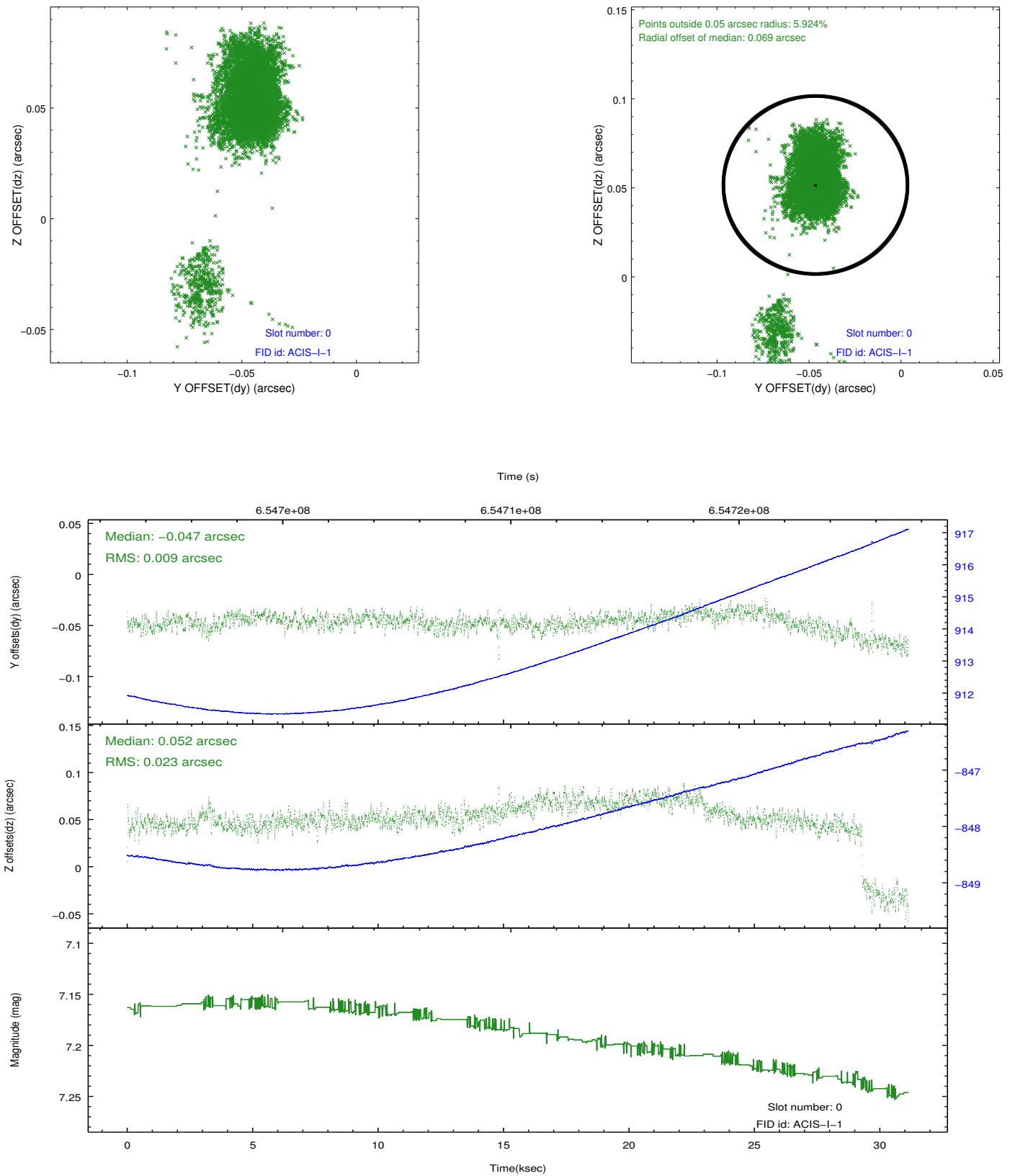


2.4.5 Slot 7

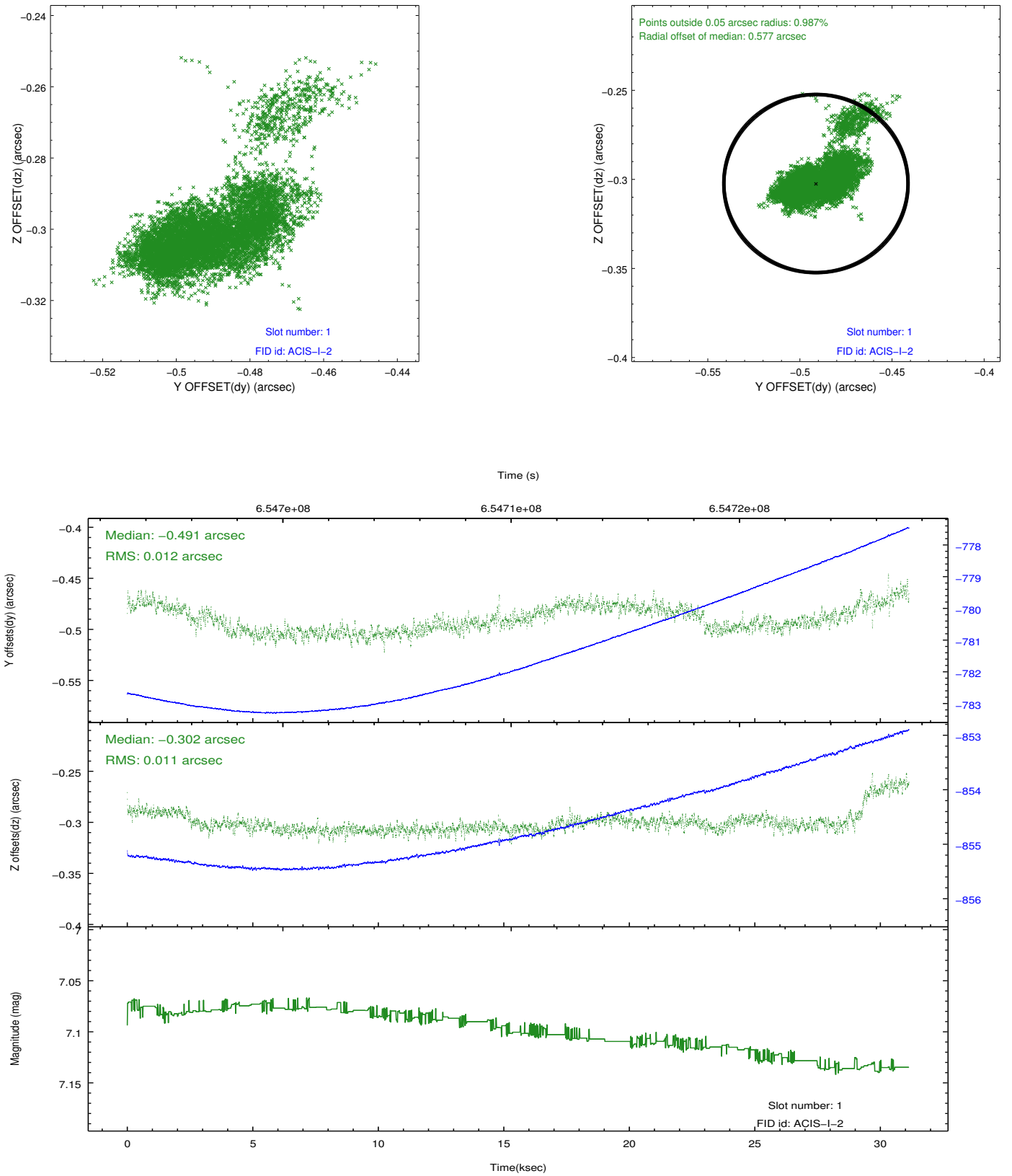


2.5 FID Slots

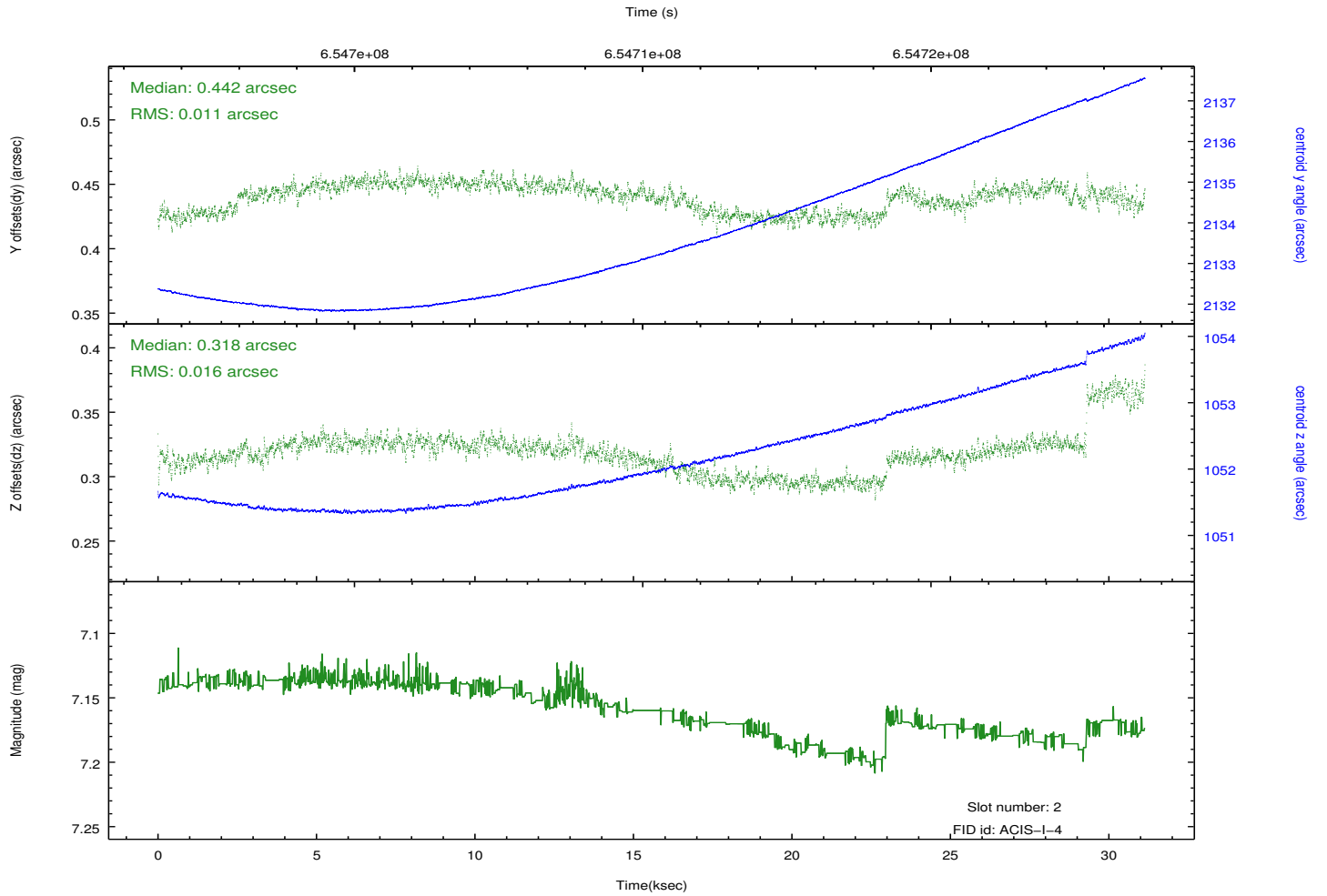
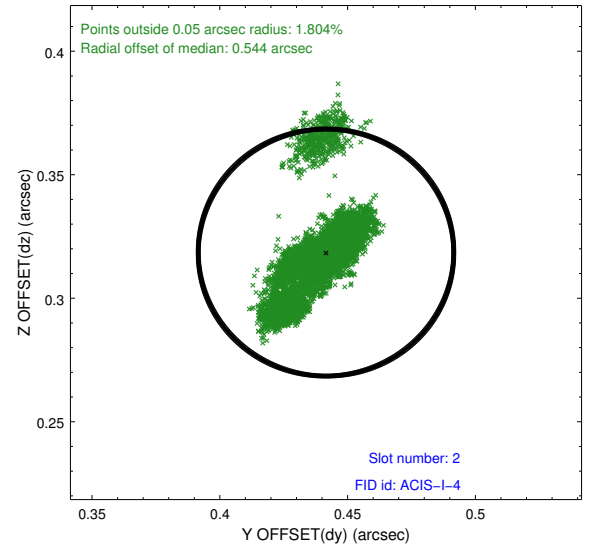
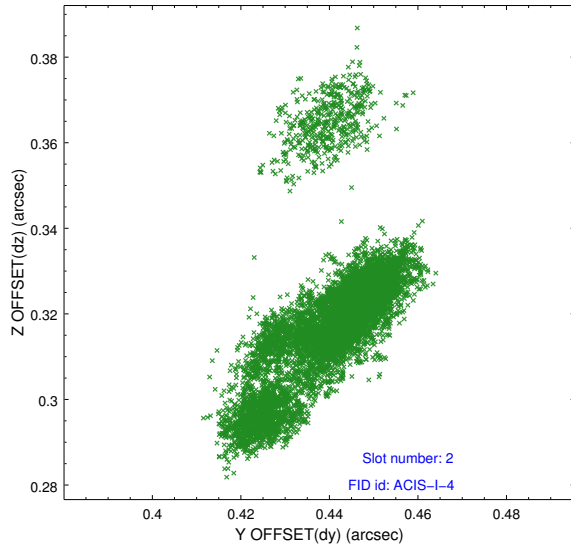
2.5.1 Slot 0



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)	2018.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.067512230992

A.2 Comments