

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21714 - L2 Version 1
Chandra X-Ray Center

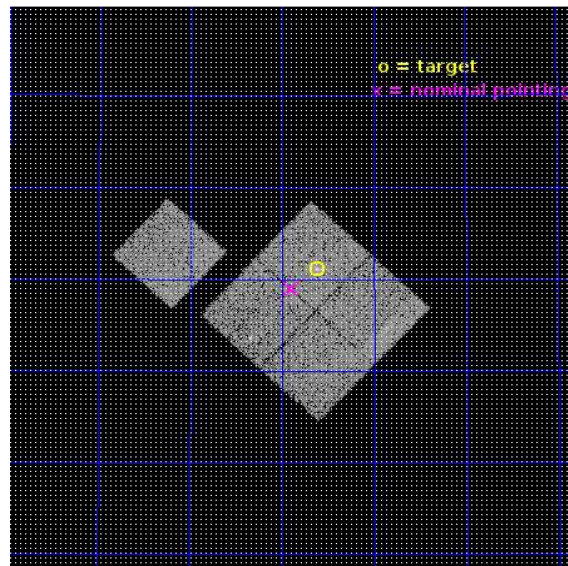
L2 Processing Date : Sep 4 2019

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1 Front

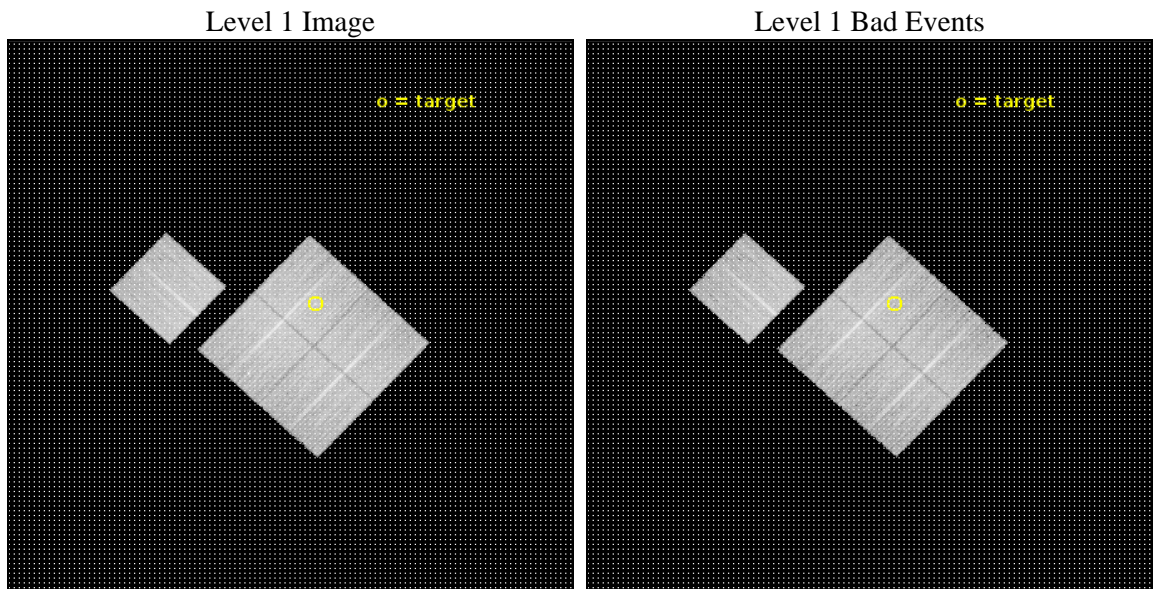
seq_num	801860	Sequence number
obs_id	21714	Observation id
title	Snapshot Survey of LOFAR-selected Galaxy Clusters	Proposal title
observer	Ralph Kraft	Principal investigator
object	WHL J134737.4+501109	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.905833	Observer's specified target RA [deg]
dec_targ	50.185833	Observer's specified target Dec [deg]
ra_nom	206.97502892397	Nominal RA [deg]
dec_nom	50.149714271472	Nominal Dec [deg]
roll_nom	313.15559012841	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15066.000115991	Sum of GTIs [s]
livetime	14869.151733047	Livetime [s]
ontime0	15062.859125614	Sum of GTIs [s]
ontime1	15066.000115991	Sum of GTIs [s]
ontime2	15066.000115991	Sum of GTIs [s]
ontime3	15066.000115991	Sum of GTIs [s]
ontime6	15066.000115991	Sum of GTIs [s]
l2events	54382	Number of level 2 events



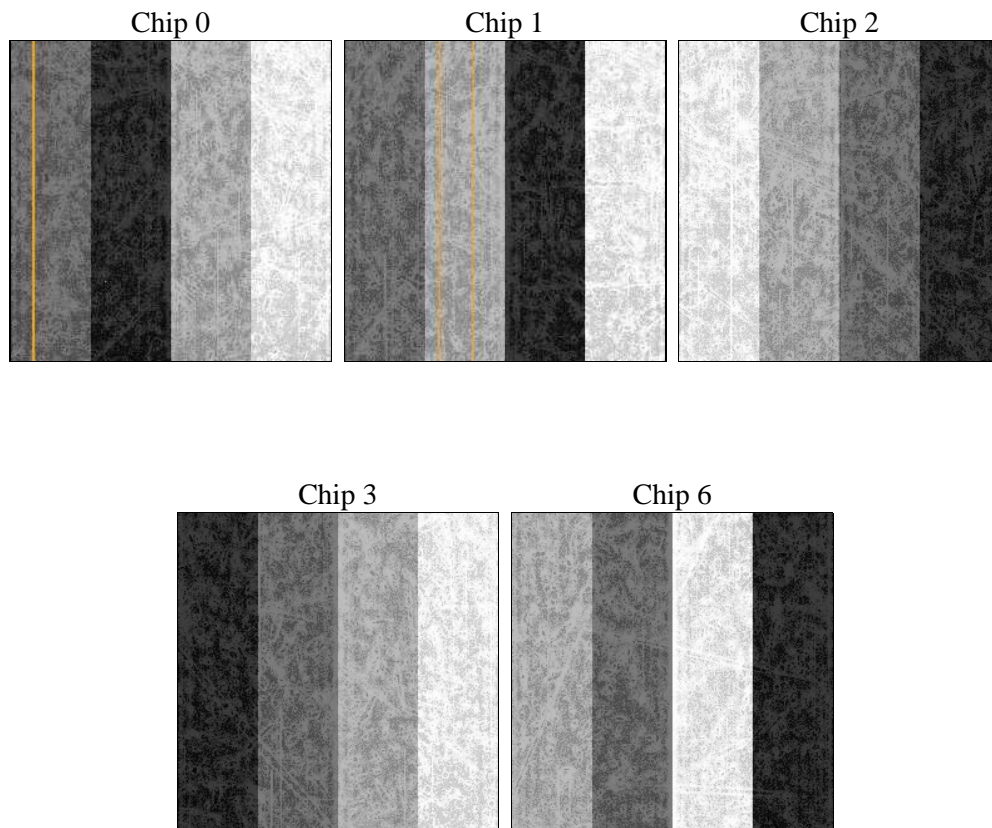
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	15066.000115991	Sum of GTIs [s]
caldsver	4.8.4	 	ontime0	15062.859125614	Sum of GTIs [s]
date	2019-09-04T23:57:22	Date and time of file creation	ontime1	15066.000115991	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15066.000115991	Sum of GTIs [s]
			ontime3	15066.000115991	Sum of GTIs [s]
			ontime6	15066.000115991	Sum of GTIs [s]
			l1events	570350	Number of level 1 events

2.1.4 Events

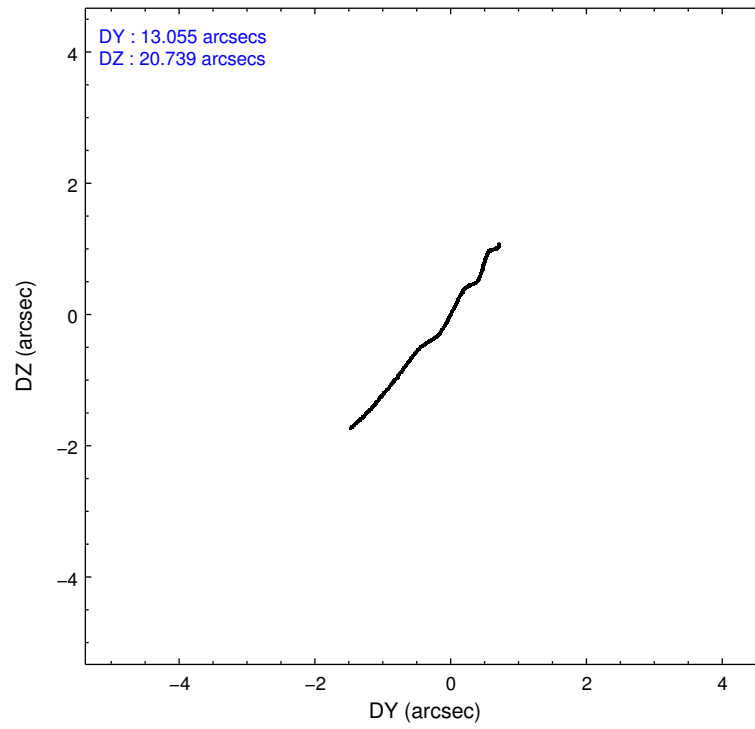
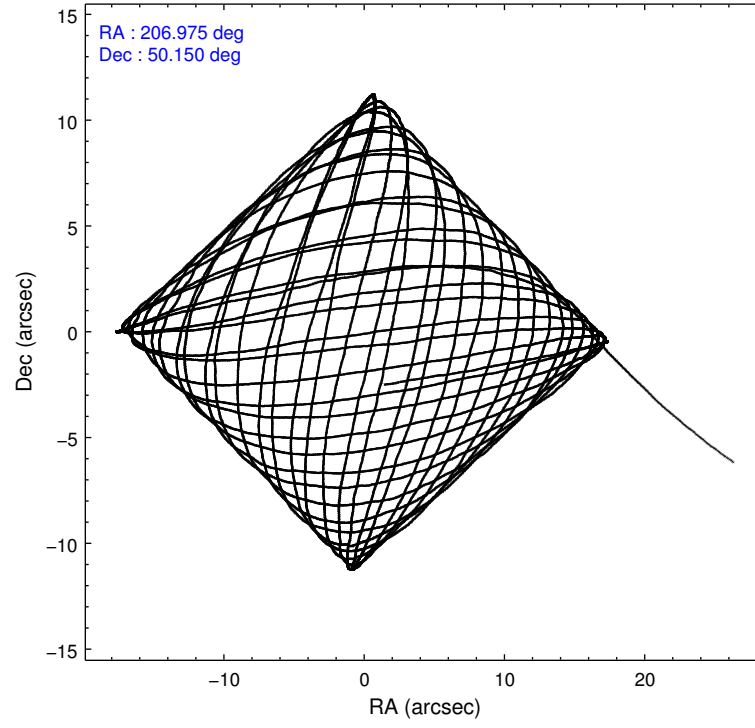
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	105504	108342	121112	116214	119178
rejected events	92860	94211	109002	103483	106446
rejected %	88%	86%	90%	89%	89%

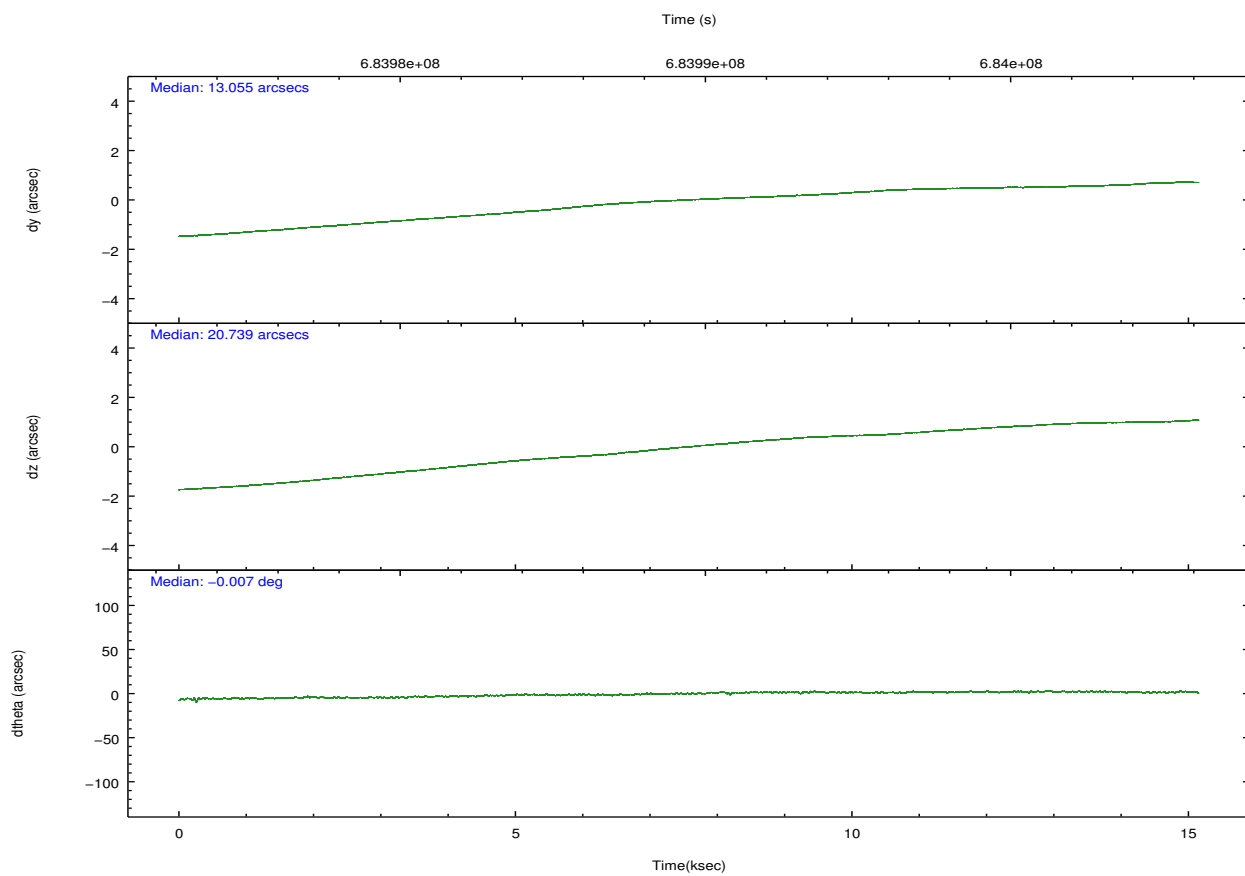
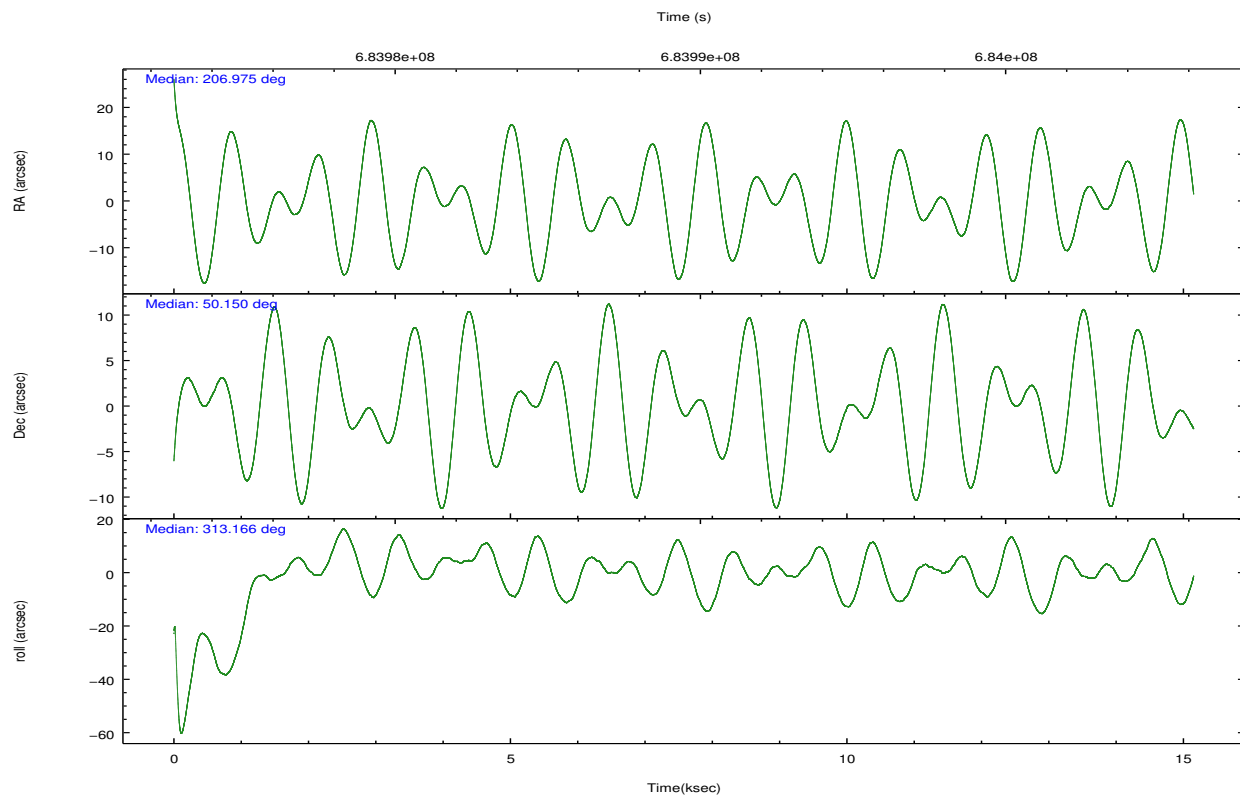
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4142	4446	4411	4902	3731
	3%	4%	3%	4%	3%
grade 1 events	63	43	71	63	57
	0%	0%	0%	0%	0%
grade 2 events	3425	3964	2948	2755	3402
	3%	3%	2%	2%	2%
grade 3 events	1244	1236	1213	1212	1150
	1%	1%	1%	1%	0%
grade 4 events	1145	1179	1165	1208	1182
	1%	1%	0%	1%	0%
grade 5 events	4492	4850	4323	5349	4798
	4%	4%	3%	4%	4%
grade 6 events	2690	3306	2377	2659	3267
	2%	3%	1%	2%	2%
grade 7 events	88303	89318	104604	98066	101591
	83%	82%	86%	84%	85%

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	206.933704	206.9750289239666	CCD I2 on	Y	Y
[deg] Pointing Dec	50.157608	50.14971427147152	CCD I3 on	Y	Y
[deg] Pointing Roll	312.978590	313.155590128408	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	683982306.184000	683981228.75041	CCD S5 on	N	N
Observation start date	2019-09-04T11:03:57	2019-09-04T10:47:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	683997306.184000	683997671.2889	On-chip summing requested	N	N
Observation end date	2019-09-04T15:13:57	2019-09-04T15:21:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



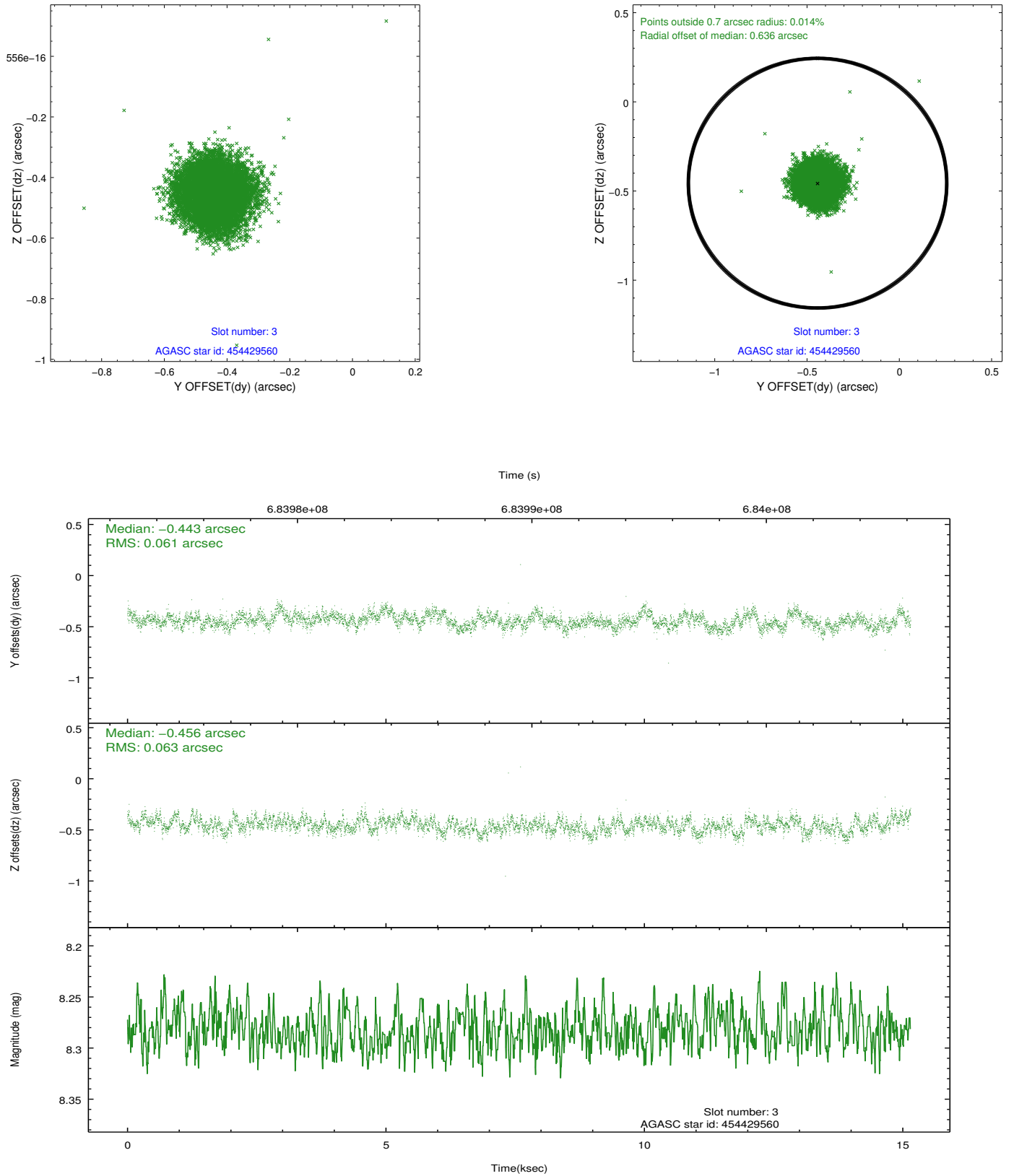


Slot Statistics

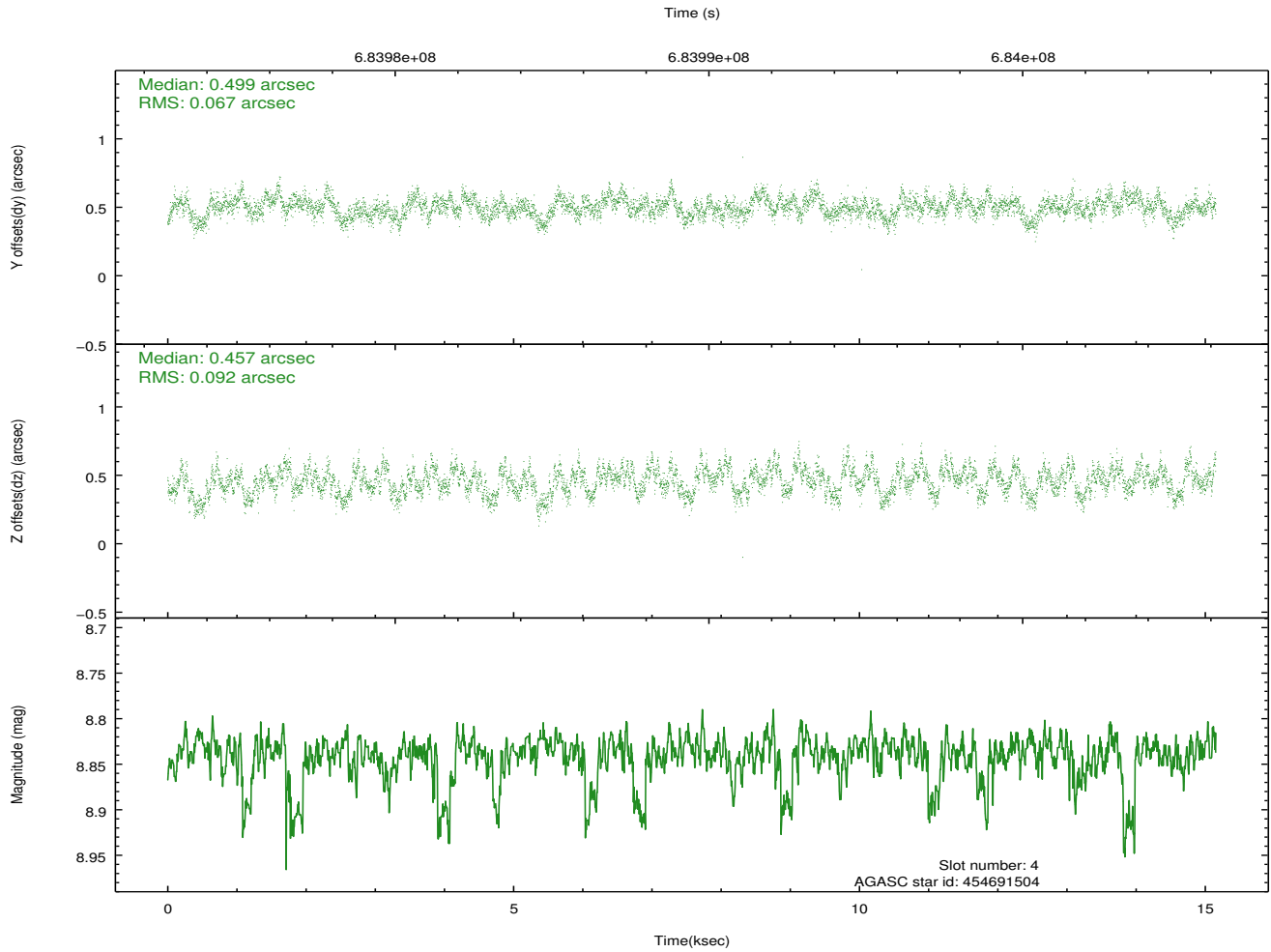
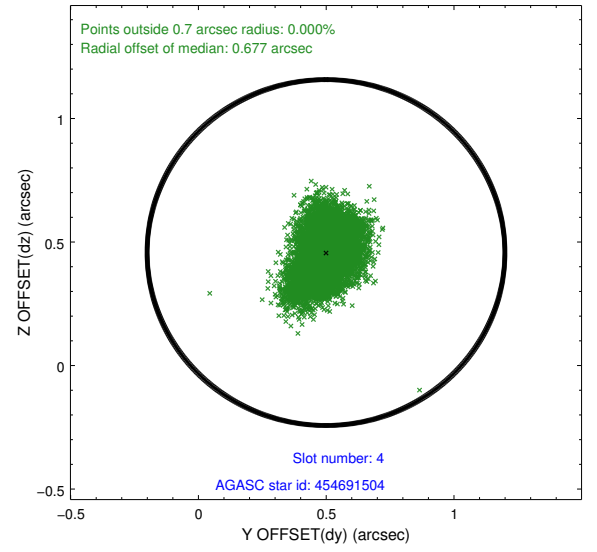
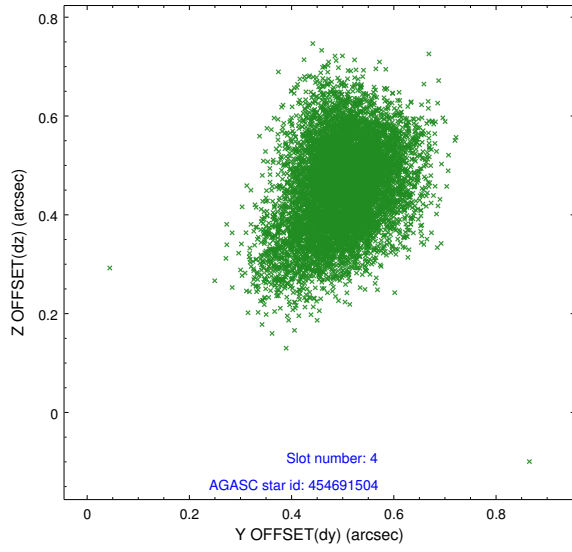
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	3696	1.000	0.194	-0.225	0.022	0.069	0.000000	0.000000	926.76	-1003
1	FID		ACIS-I-5	7.23	3695	1.000	-0.532	0.077	0.014	0.028	0.000000	0.000000	-1822.06	893
2	FID		ACIS-I-6	7.26	3696	1.000	0.247	0.218	0.019	0.057	0.000000	0.000000	391.82	1538
3	GUIDE	used	454429560	8.28	7391	1.000	-0.443	-0.456	0.094	0.144	208.000020	49.950913	2223.12	1315
4	GUIDE	used	454691504	8.84	7390	1.000	0.499	0.457	0.120	0.197	205.975257	50.280822	-1836.92	-1300
5	GUIDE	used	454696696	9.36	7381	1.000	0.311	0.407	0.232	0.343	206.056542	50.275512	-1695.79	-1179
6	GUIDE	used	454820416	9.36	7379	1.000	-0.495	-0.254	0.152	0.240	208.096544	50.316538	1388.88	2359
7	GUIDE	used	454829104	8.86	7387	1.000	0.141	-0.146	0.145	0.214	206.635917	50.516953	-1411.36	384

2.4 Star Slots

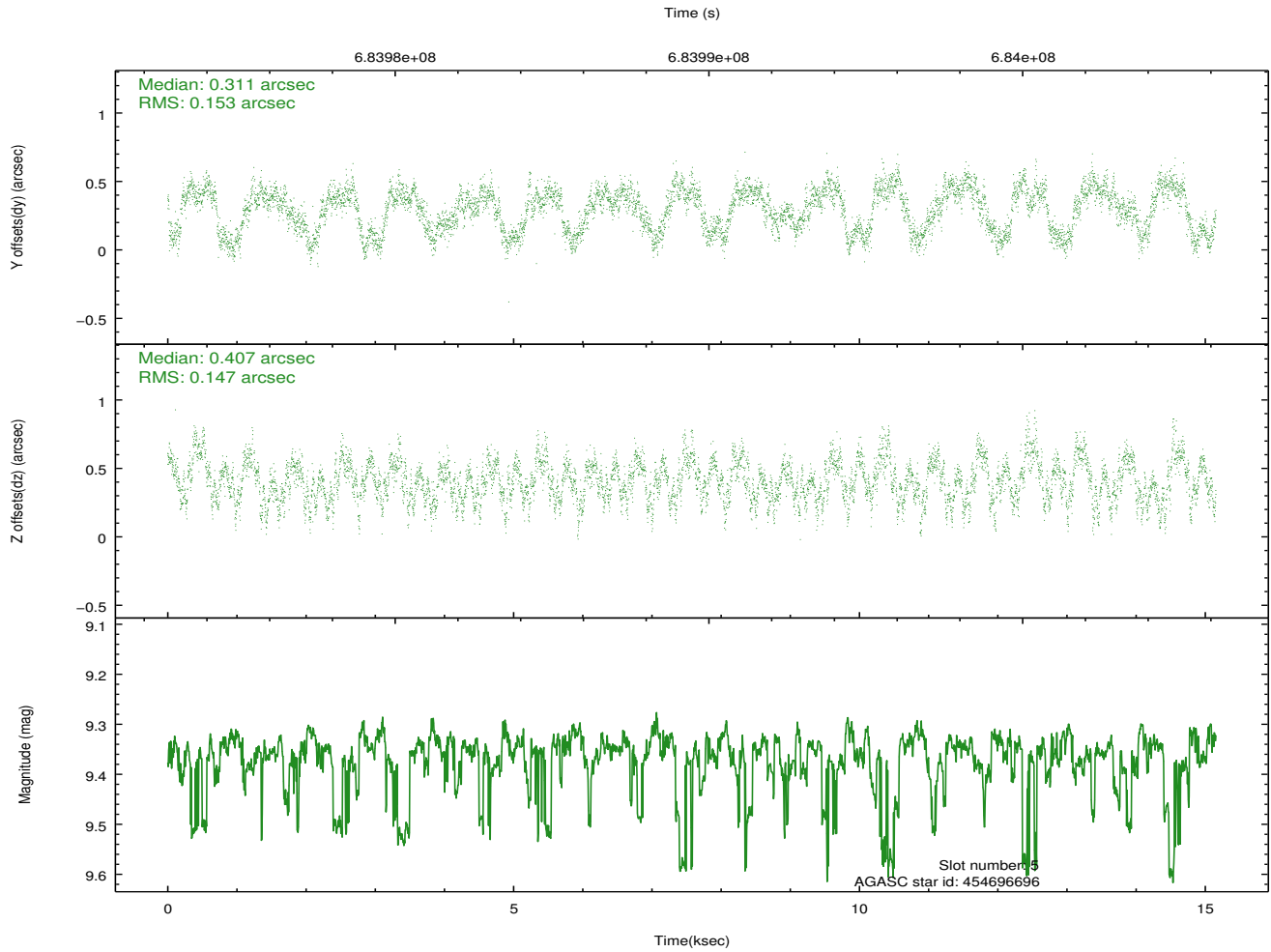
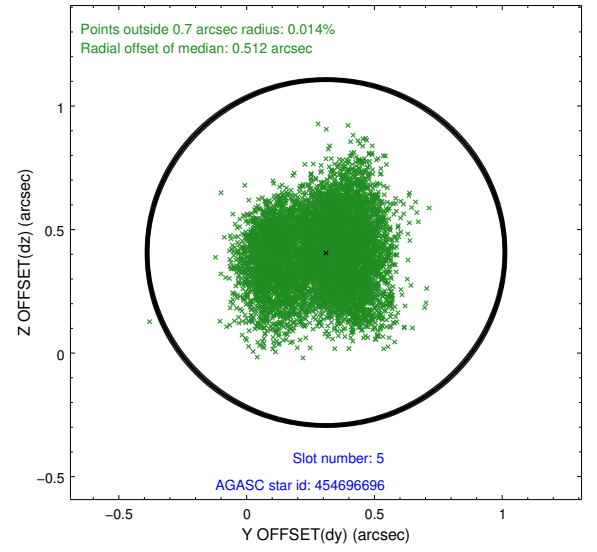
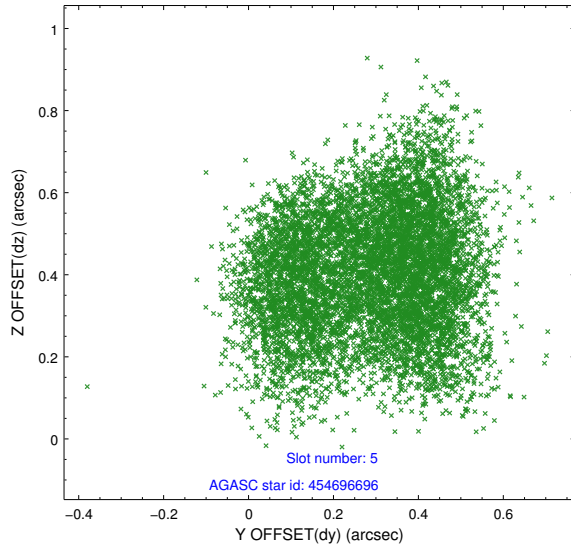
2.4.1 Slot 3



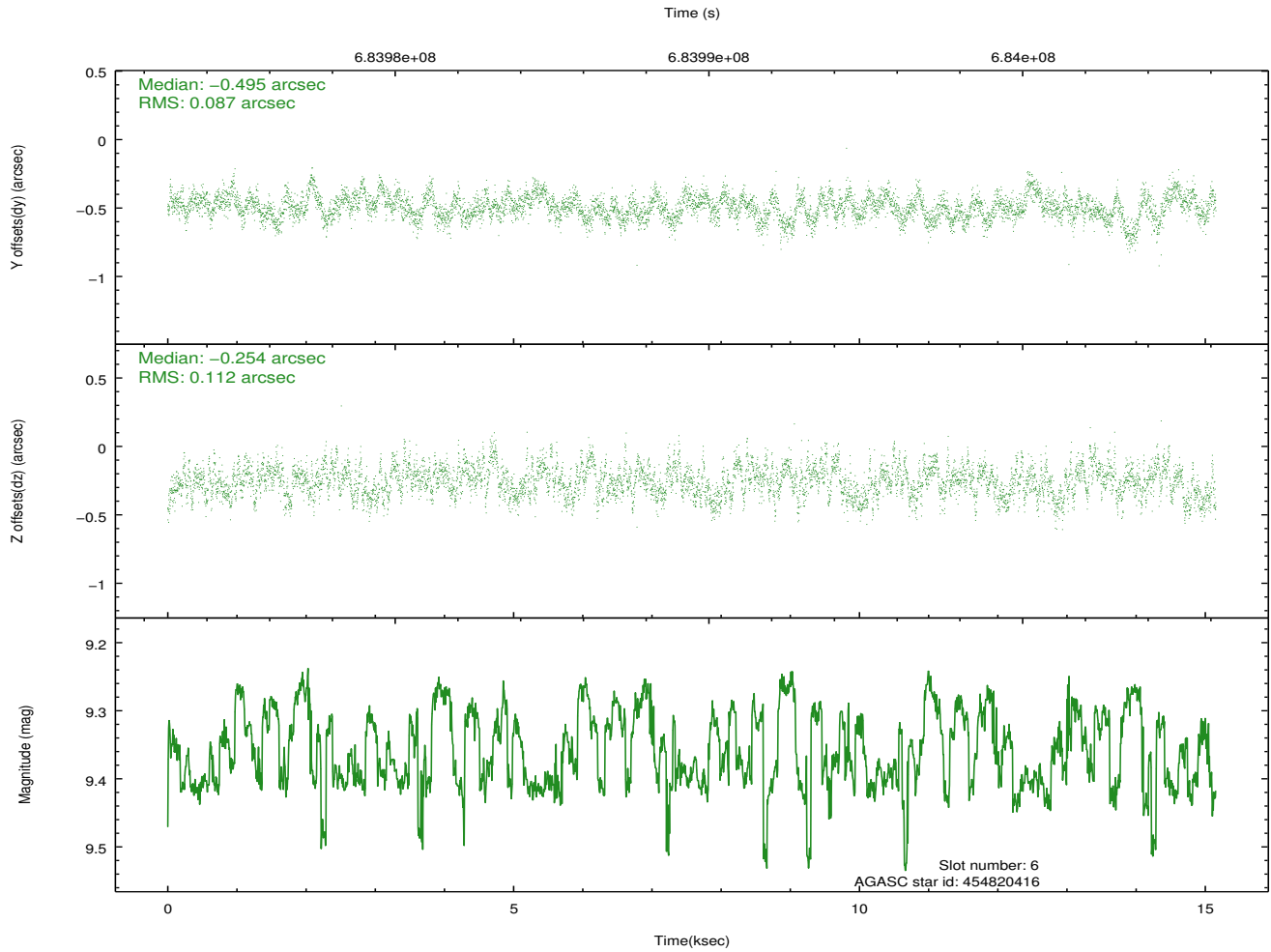
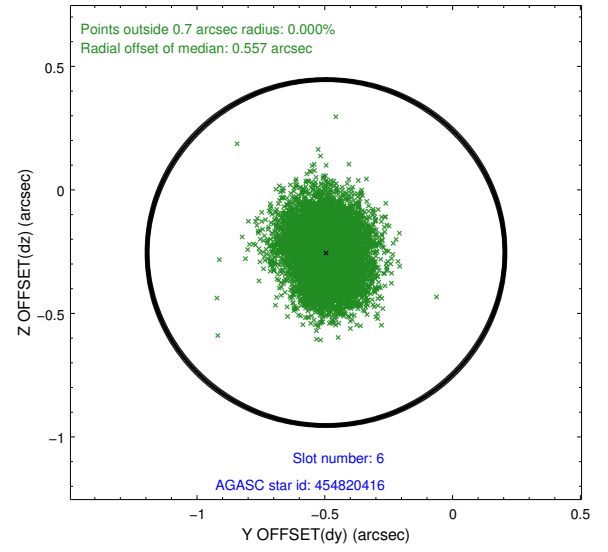
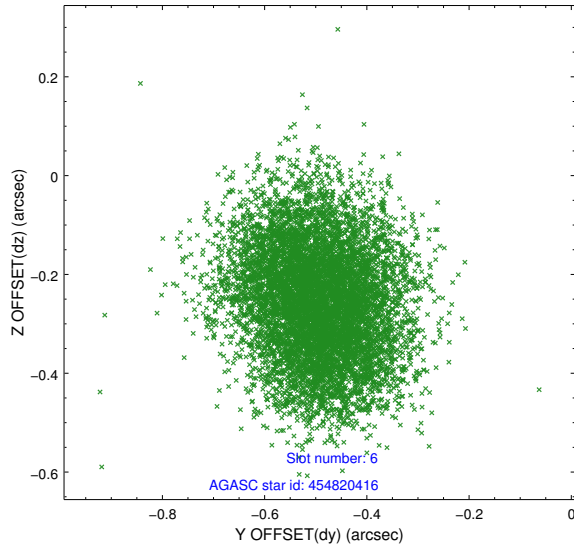
2.4.2 Slot 4



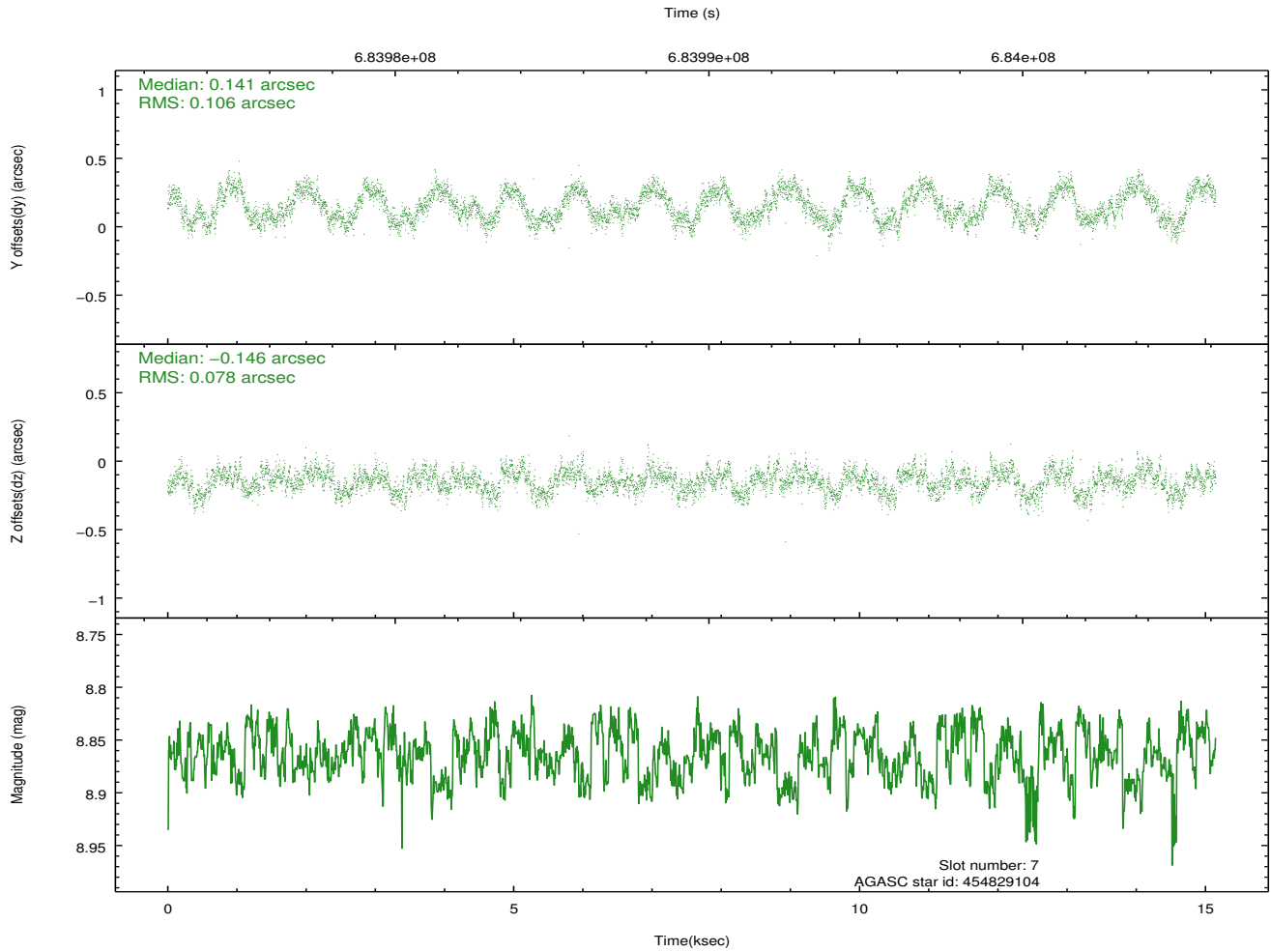
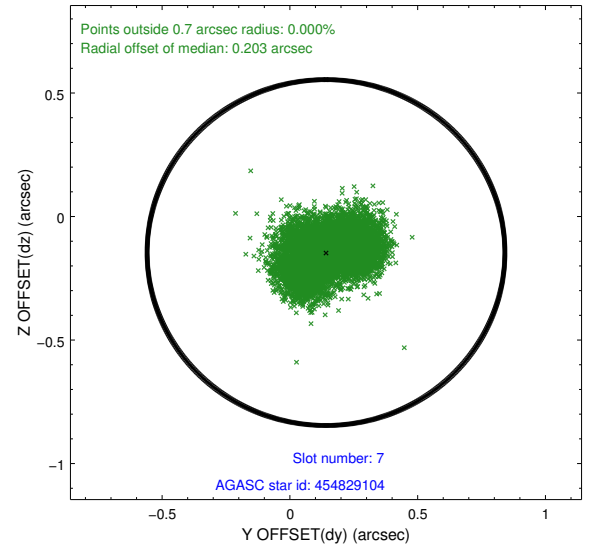
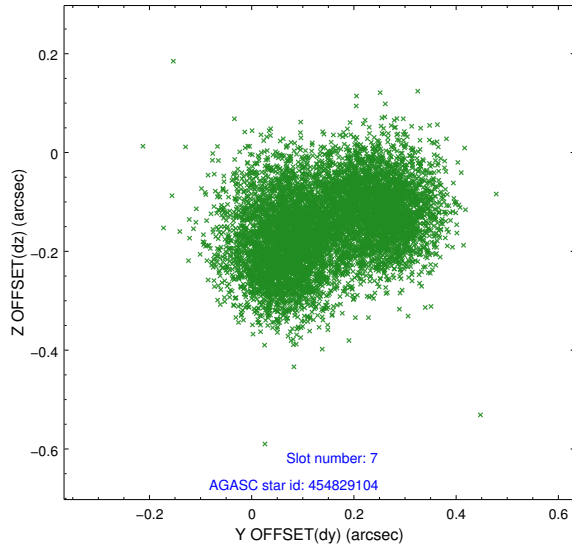
2.4.3 Slot 5



2.4.4 Slot 6

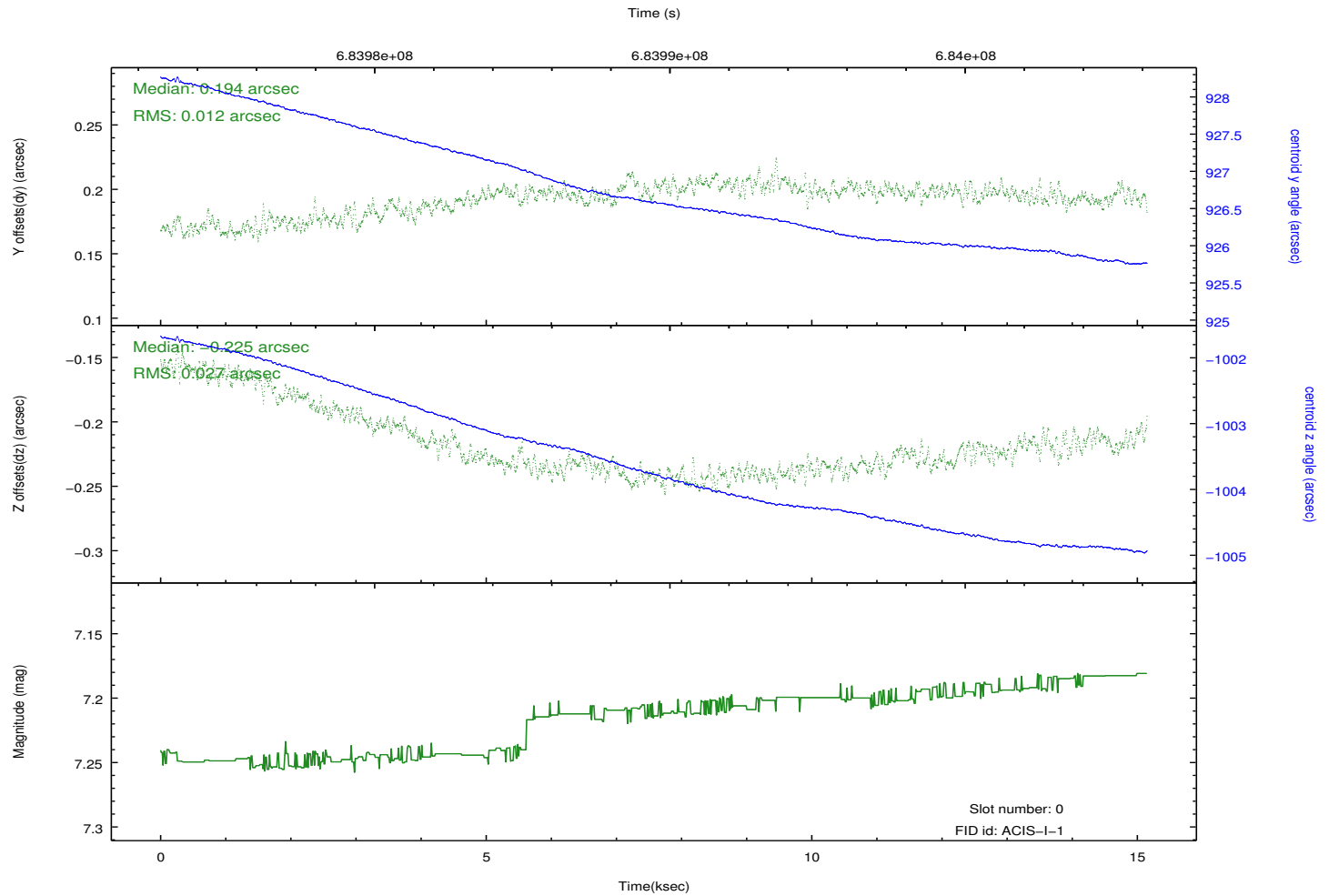
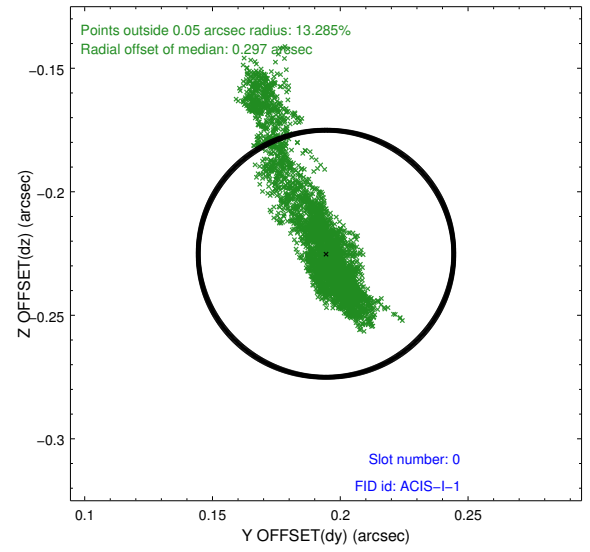
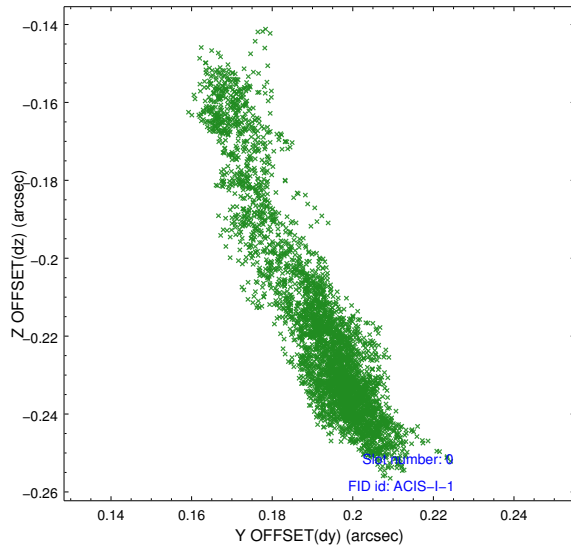


2.4.5 Slot 7

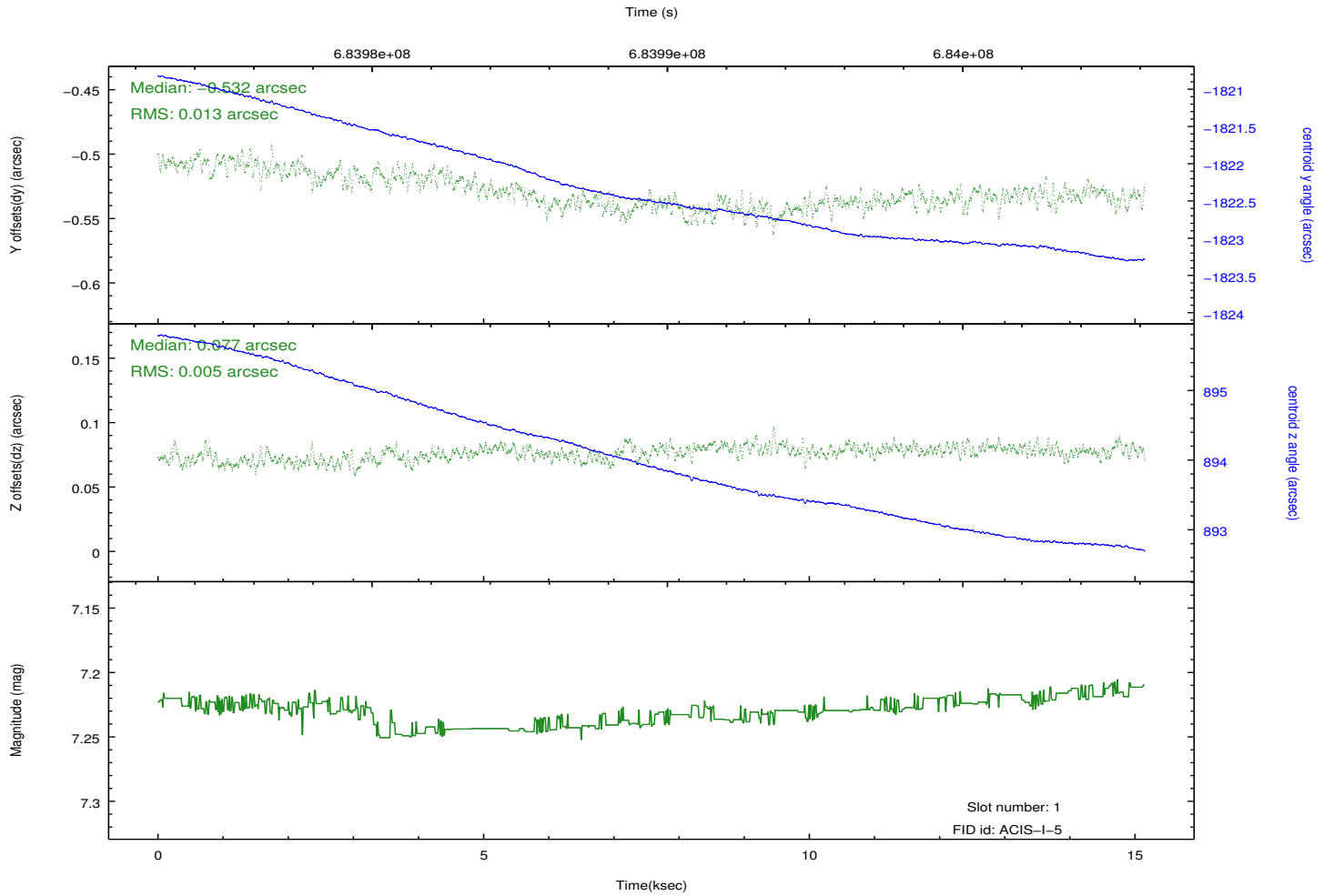
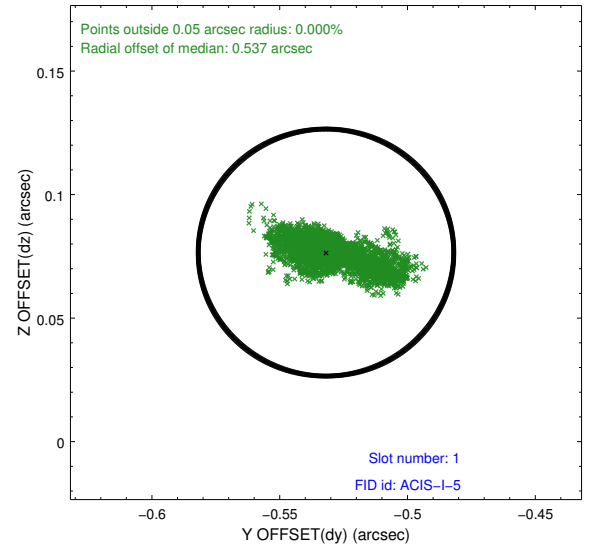
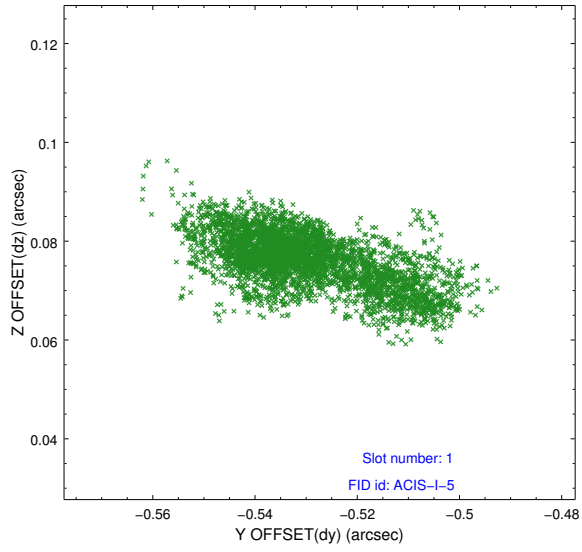


2.5 FID Slots

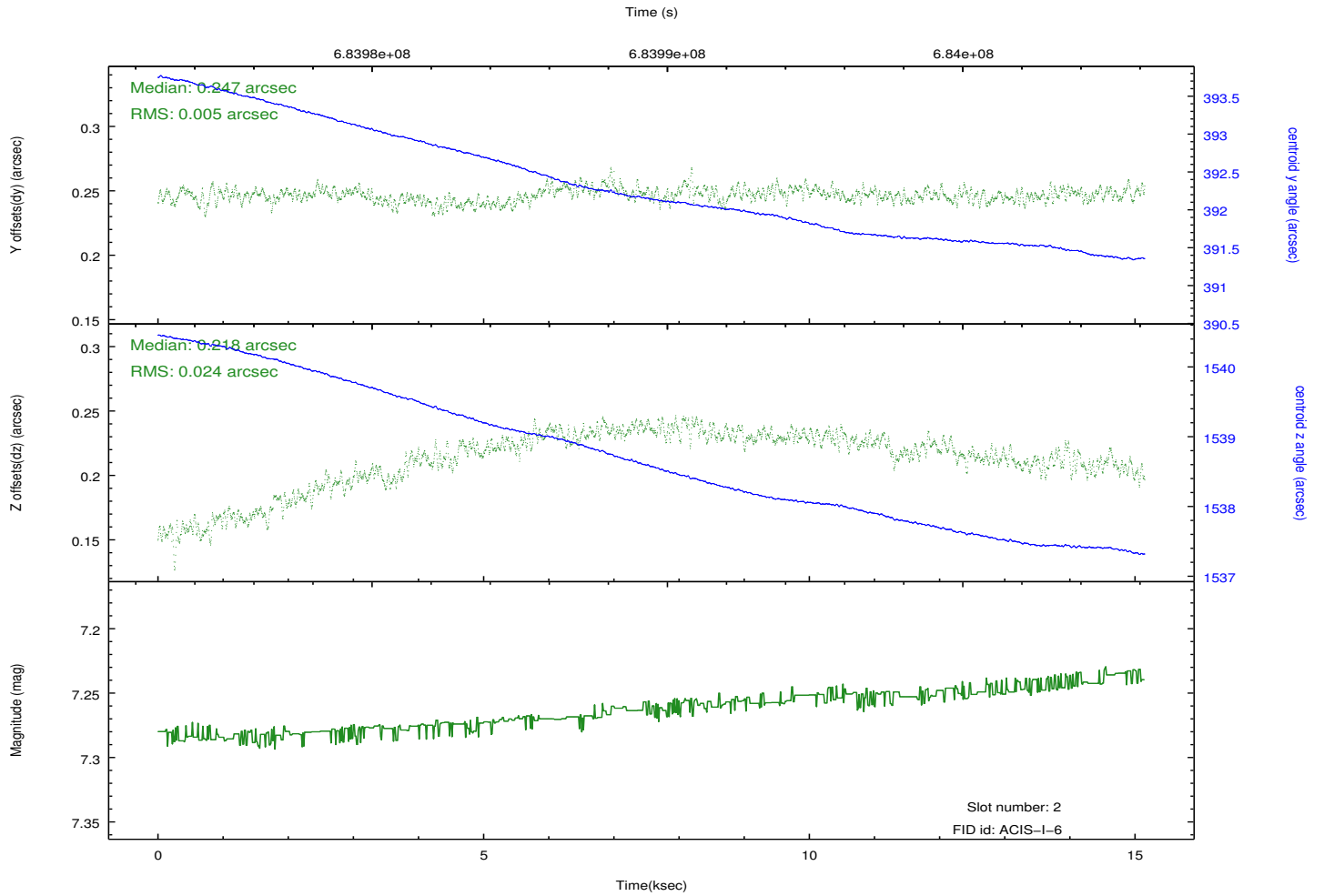
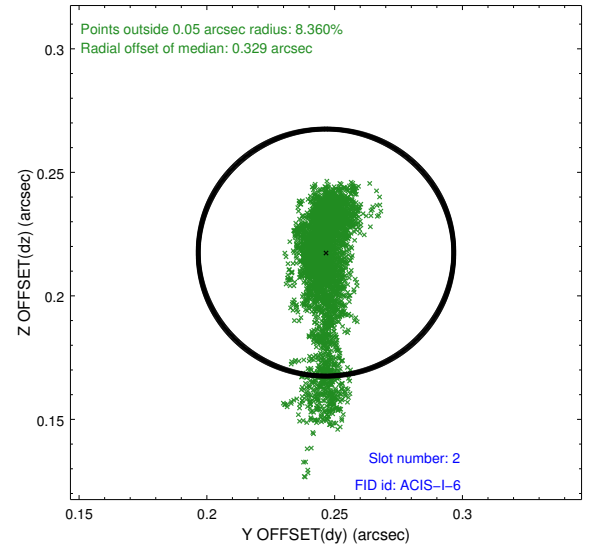
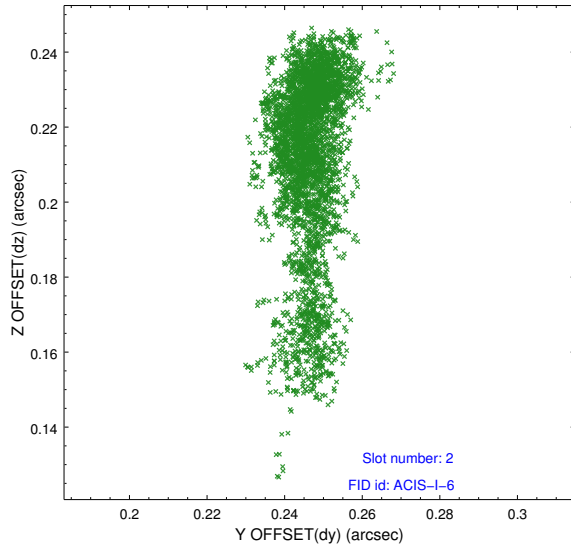
2.5.1 Slot 0



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)	2019.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.066000115991

A.2 Comments