

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22045 - L2 Version 1
Chandra X-Ray Center

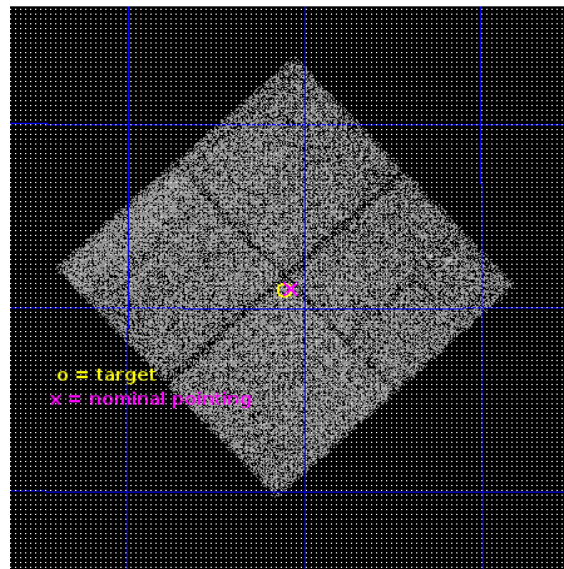
L2 Processing Date : Jan 14 2019

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1 Front

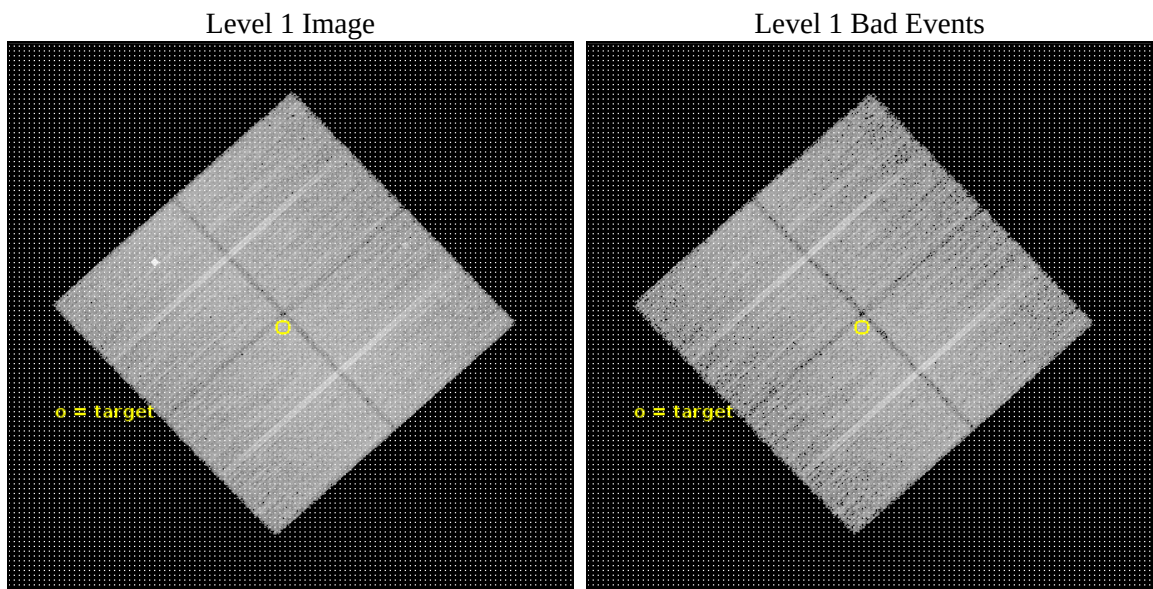
seq_num	801823	Sequence number
obs_id	22045	Observation id
title	A direct Chandra - Suzaku comparison of cluster outskirts	Proposal
observer	Andrea Morandi	Principal investigator
object	A773	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.277917	Observer's specified target RA [deg]
dec_targ	51.849472	Observer's specified target Dec [deg]
ra_nom	139.26815298836	Nominal RA [deg]
dec_nom	51.850985695777	Nominal Dec [deg]
roll_nom	137.21635201007	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26072.88482666	Sum of GTIs [s]
livetime	25732.223391821	Livetime [s]
ontime0	26079.043787122	Sum of GTIs [s]
ontime1	26075.943756819	Sum of GTIs [s]
ontime2	26075.984806895	Sum of GTIs [s]
ontime3	26072.88482666	Sum of GTIs [s]
l2events	72319	Number of level 2 events



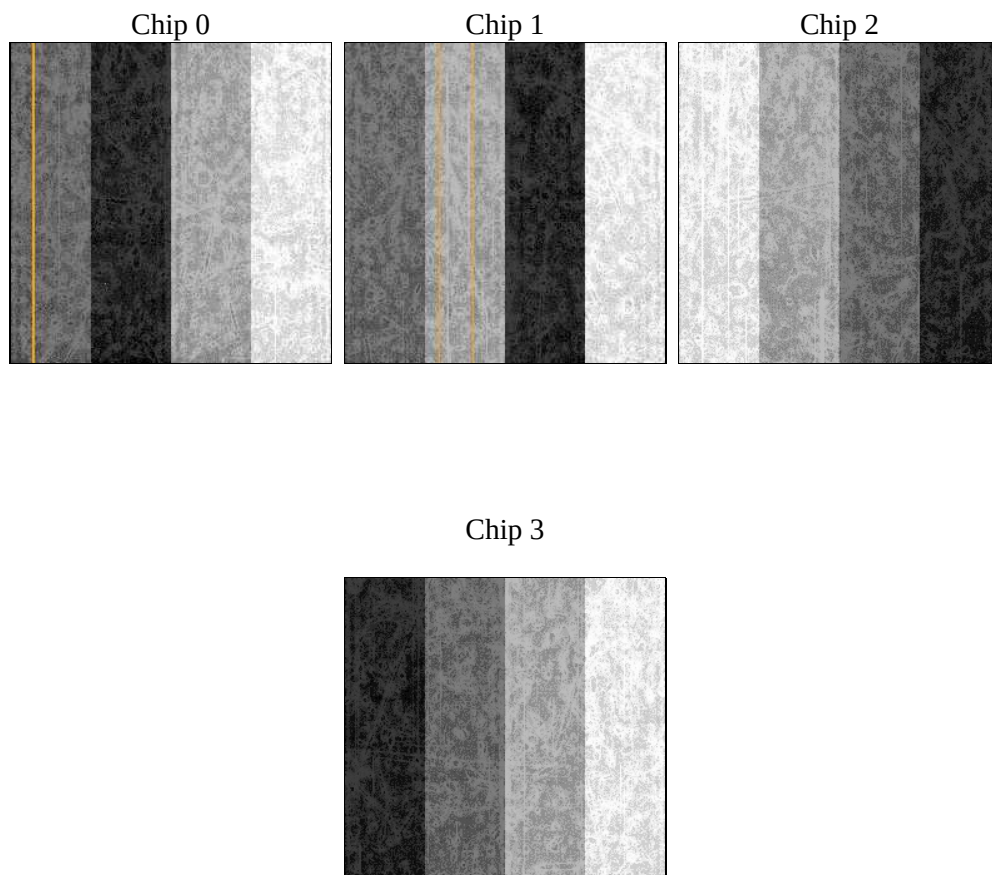
2 OBI

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	10.7.1	Processing system revision	ontime	26072.88482666	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	26079.043787122	Sum of GTIs [s]
date	2019-01-14T15:22:06	Date and time of file creation	ontime1	26075.943756819	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26075.984806895	Sum of GTIs [s]
			ontime3	26072.88482666	Sum of GTIs [s]
			l1events	759572	Number of level 1 events

2.1.4 Events

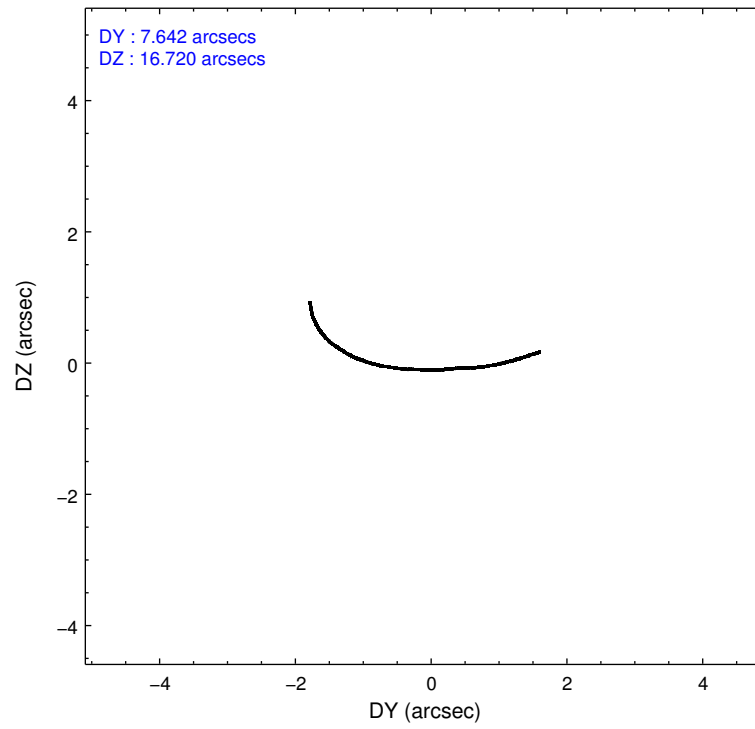
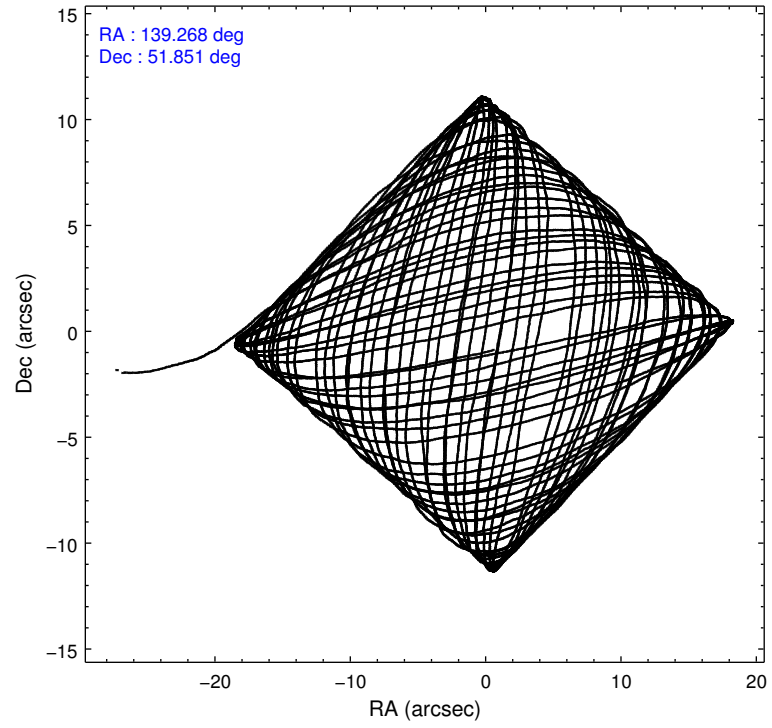
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	177850	189684	197680	194358
rejected events	156366	163007	176588	173534
rejected %	87%	85%	89%	89%

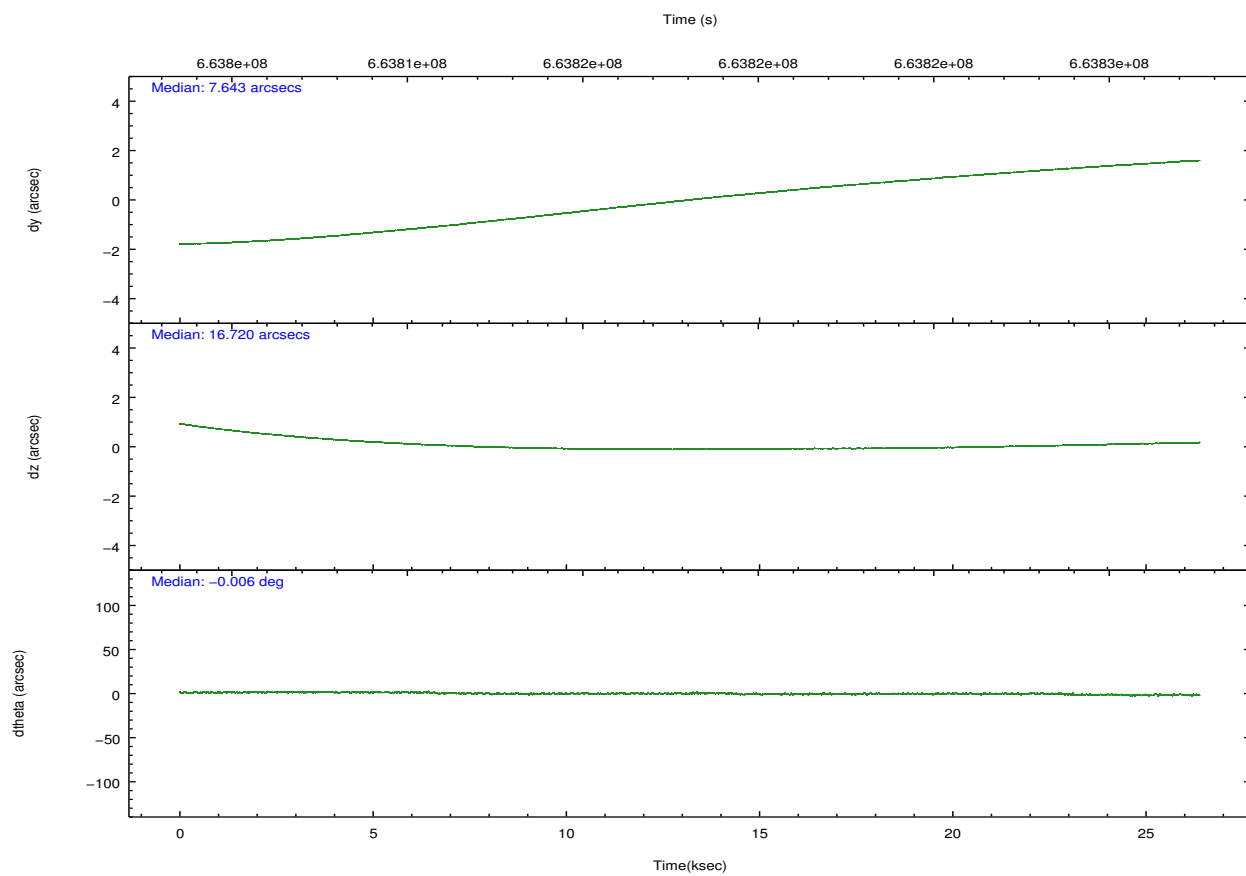
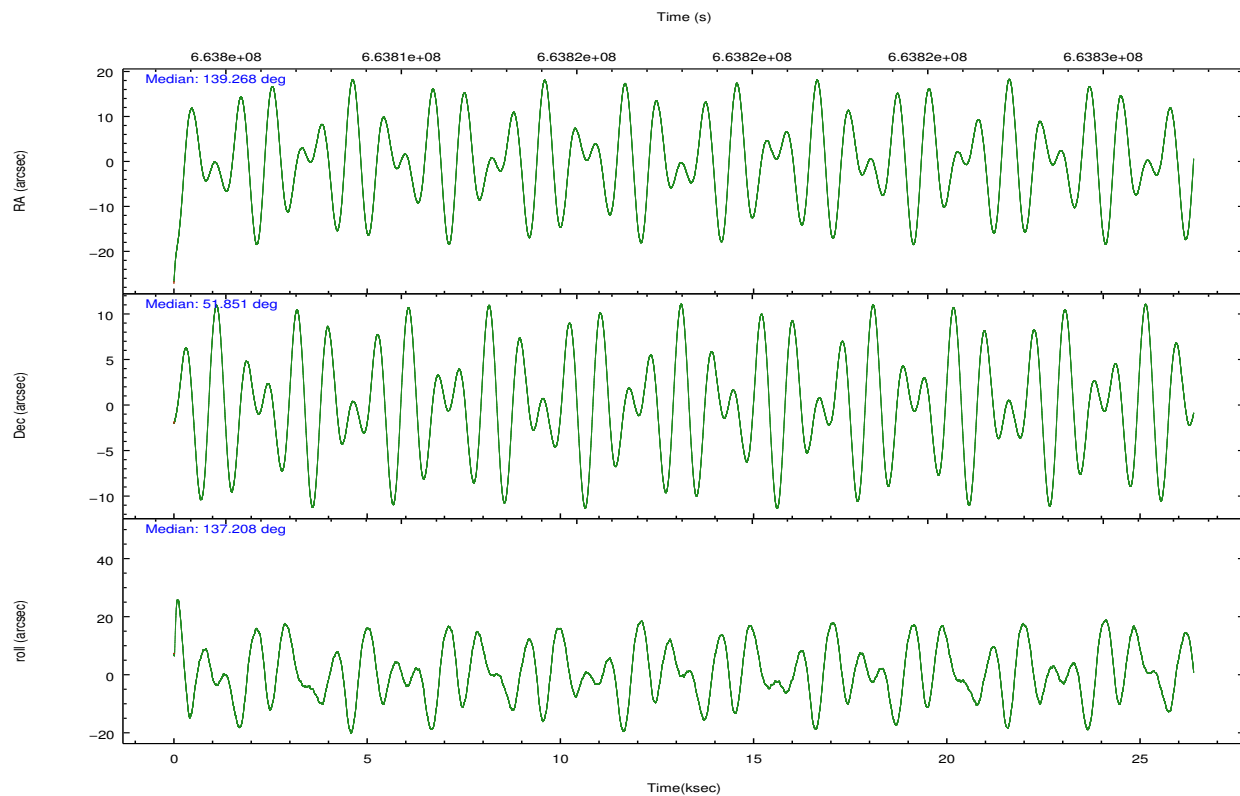
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7177	10632	7537	7383
	4%	5%	3%	3%
grade 1 events	97	140	135	119
	0%	0%	0%	0%
grade 2 events	5446	6169	5133	4662
	3%	3%	2%	2%
grade 3 events	2159	2273	2112	2143
	1%	1%	1%	1%
grade 4 events	2113	2132	2102	2112
	1%	1%	1%	1%
grade 5 events	8281	8566	7640	9073
	4%	4%	3%	4%
grade 6 events	4590	5477	4212	4526
	2%	2%	2%	2%
grade 7 events	147987	154295	168809	164340
	83%	81%	85%	84%

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	139.311814	139.2681529883629	CCD I2 on	Y	Y
[deg] Pointing Dec	51.844965	51.85098569577694	CCD I3 on	Y	Y
[deg] Pointing Roll	136.973345	137.2163520100668	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)	663805254.184000	663804271.15379	CCD S5 on	N	N
Observation start date	2019-01-13T22:19:45	2019-01-13T22:04:31	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	663831254.184000	663832145.5179501	On-chip summing requested	N	N
Observation end date	2019-01-14T05:33:05	2019-01-14T05:49:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



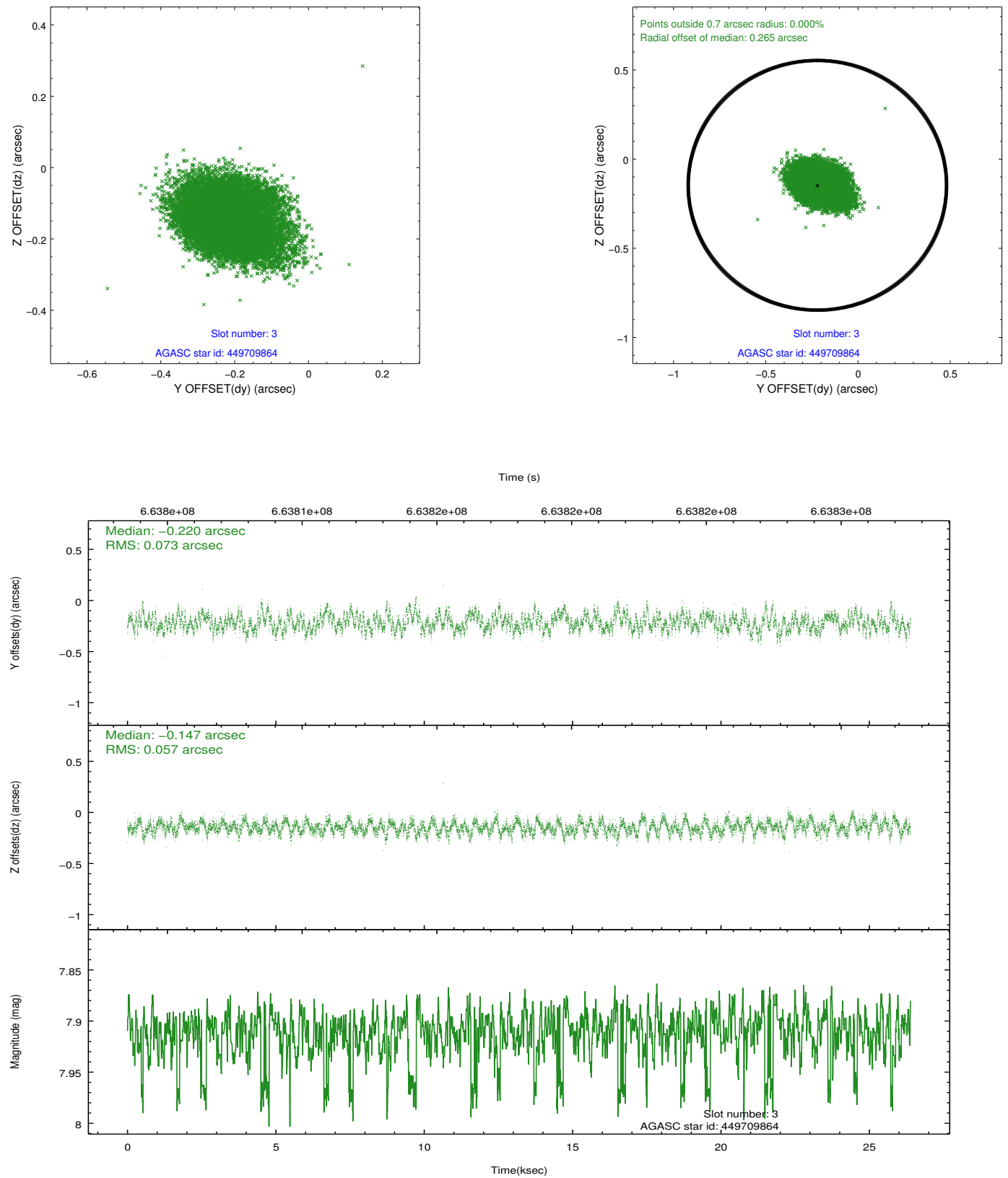


Slot Statistics

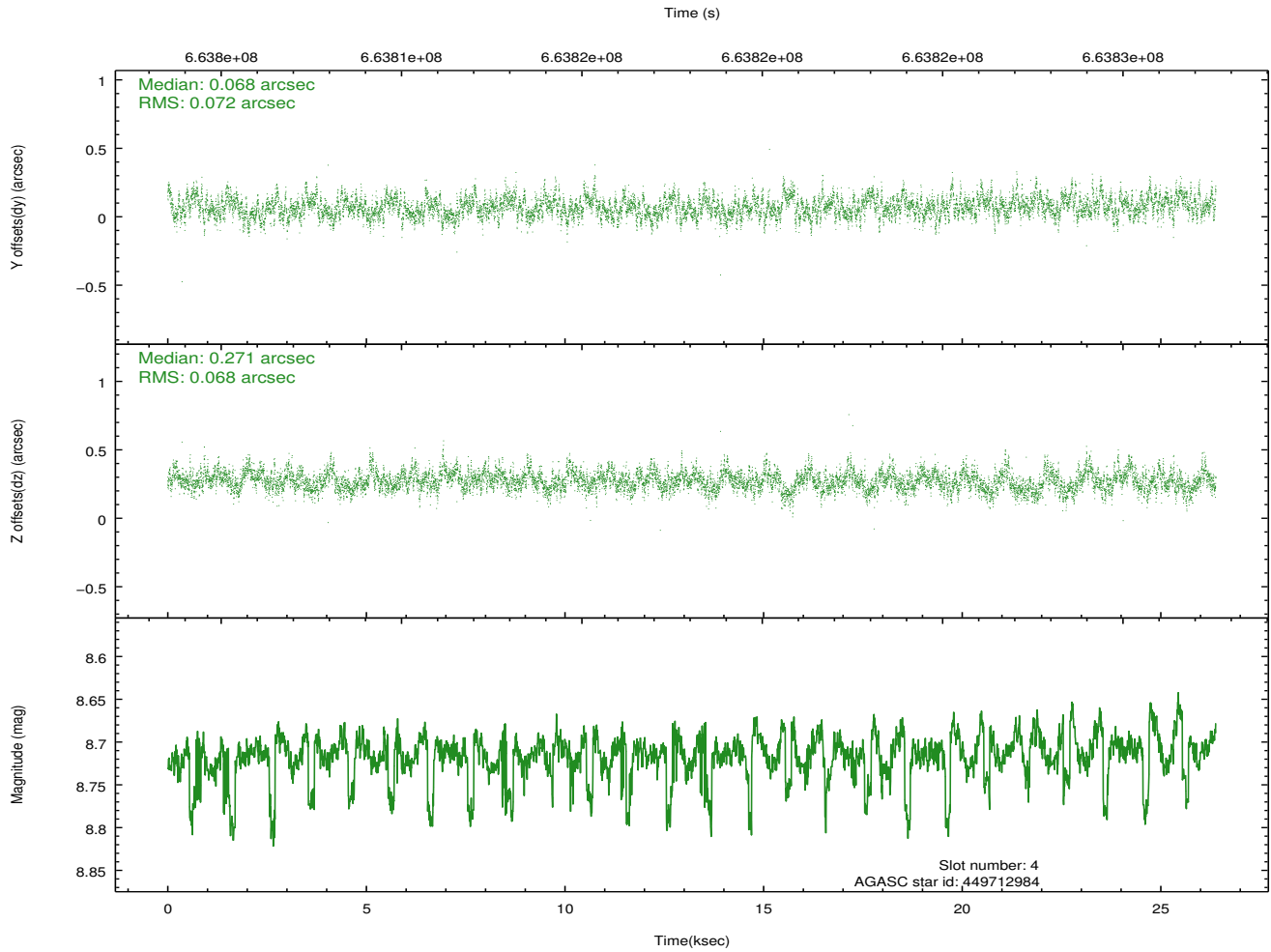
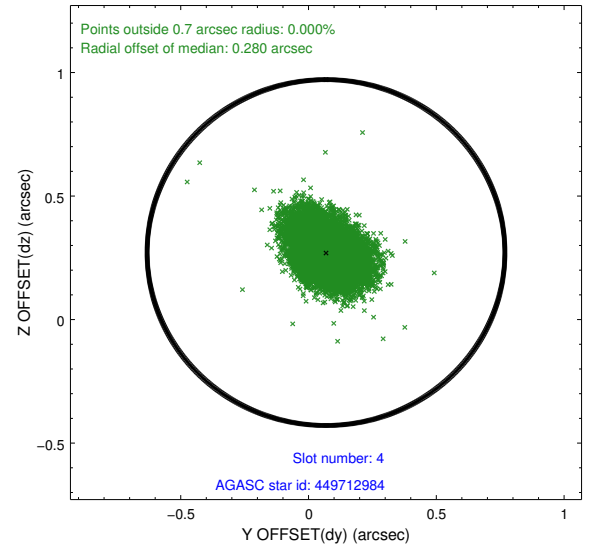
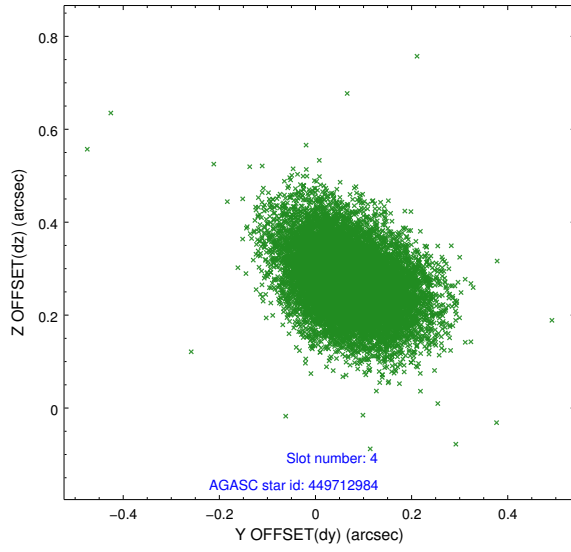
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	6437	1.000	0.125	-0.148	0.018	0.046	0.000000	0.000000	932.28	-840
1	FID		ACIS-I-5	7.19	6437	1.000	-0.448	0.040	0.021	0.029	0.000000	0.000000	-1816.47	1056
2	FID		ACIS-I-6	7.17	6437	1.000	0.232	0.187	0.031	0.078	0.000000	0.000000	397.64	1701
3	GUIDE	used	449709864	7.91	12872	1.000	-0.220	-0.147	0.099	0.159	139.601682	51.402076	-1563.10	720
4	GUIDE	used	449712984	8.72	12859	1.000	0.068	0.271	0.103	0.175	139.803051	51.633381	-1319.74	-194
5	GUIDE	used	498865336	9.15	12858	1.000	0.018	-0.007	0.152	0.275	139.050858	52.564533	2186.13	-1503
6	GUIDE	used	498868696	8.85	12859	1.000	0.066	-0.063	0.185	0.331	139.337086	52.680422	2012.70	-2236
7	GUIDE	used	449708784	9.25	12859	1.000	0.075	-0.041	0.165	0.281	139.281247	51.322176	-1233.01	1423

2.4 Star Slots

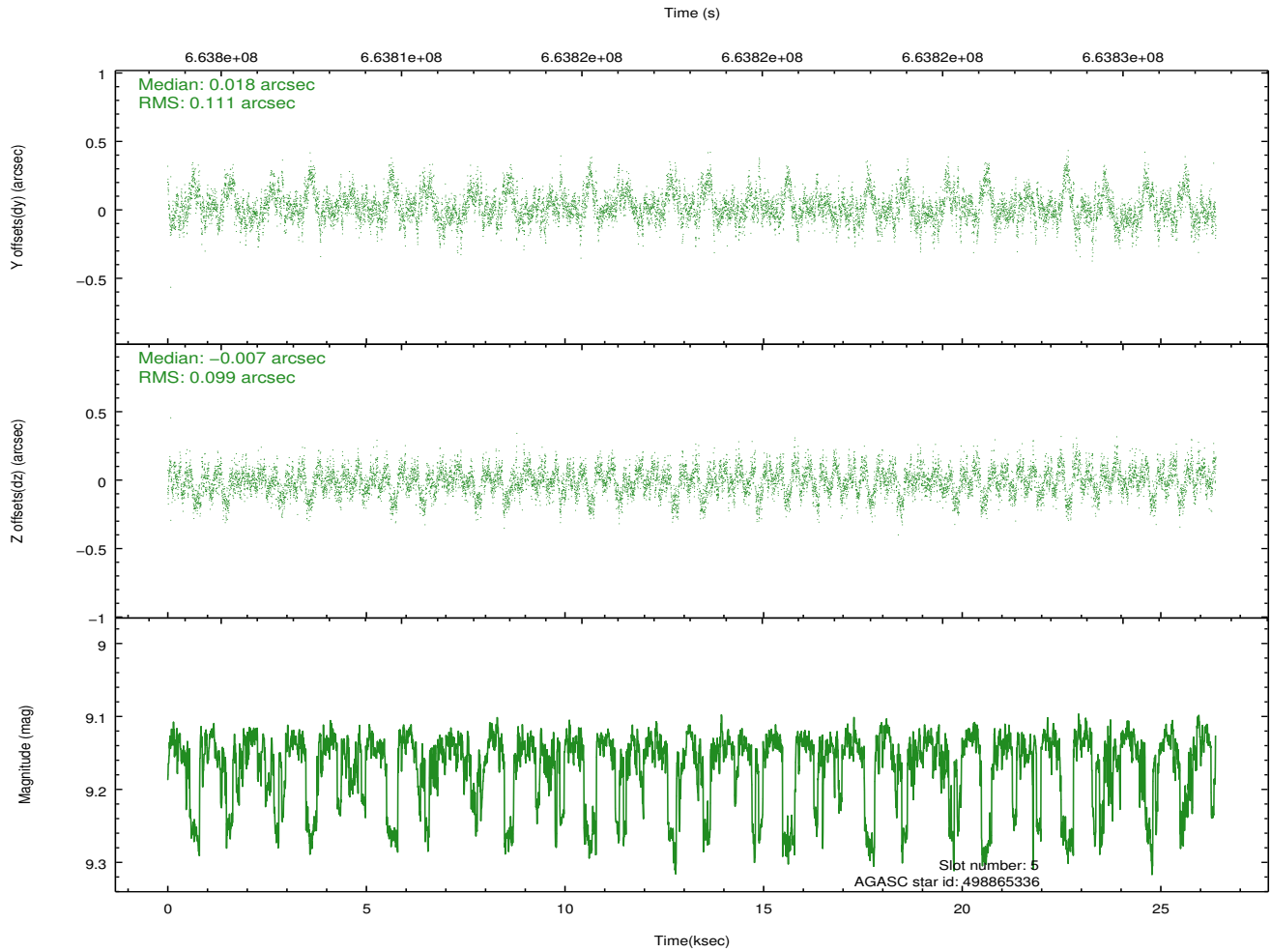
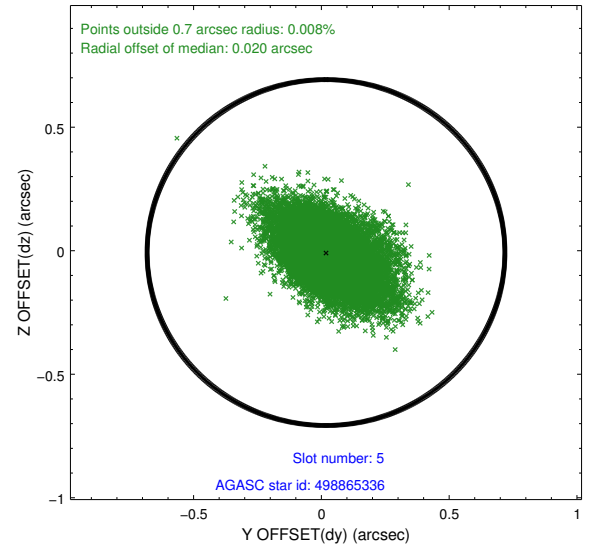
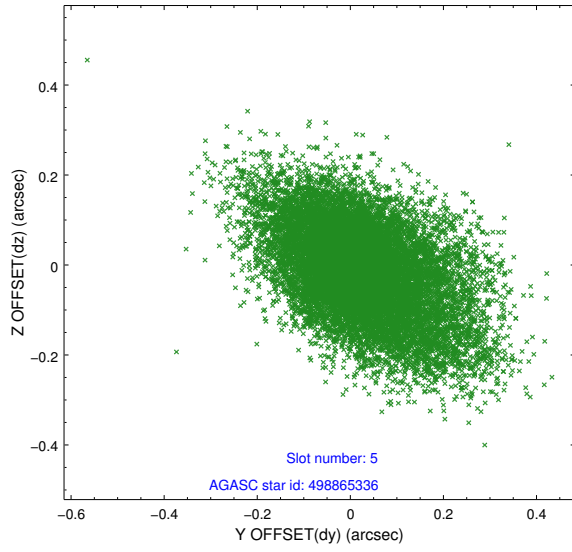
2.4.1 Slot 3



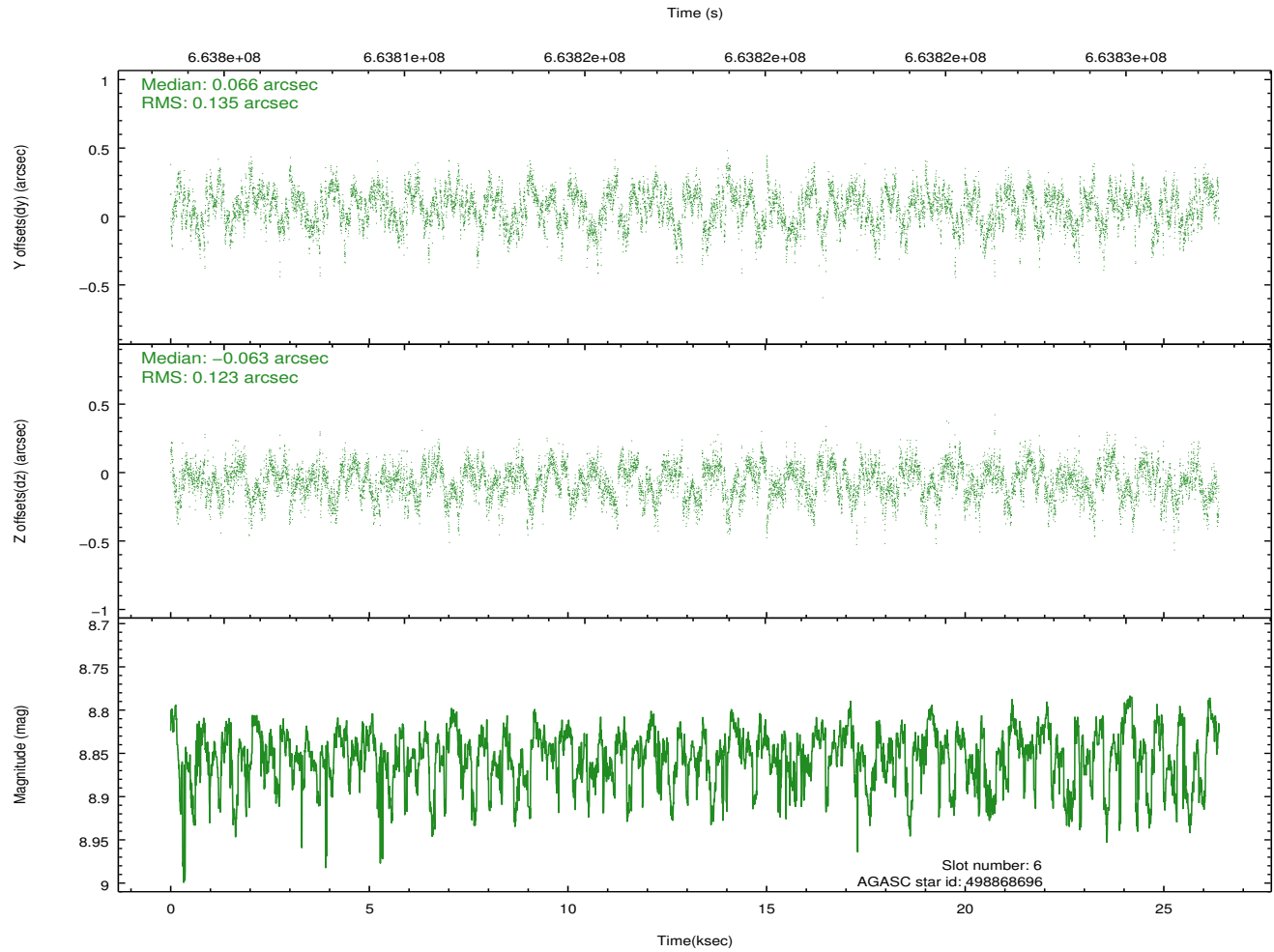
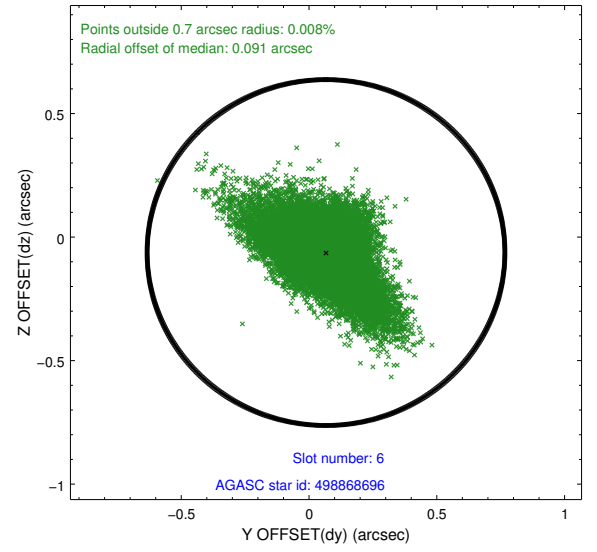
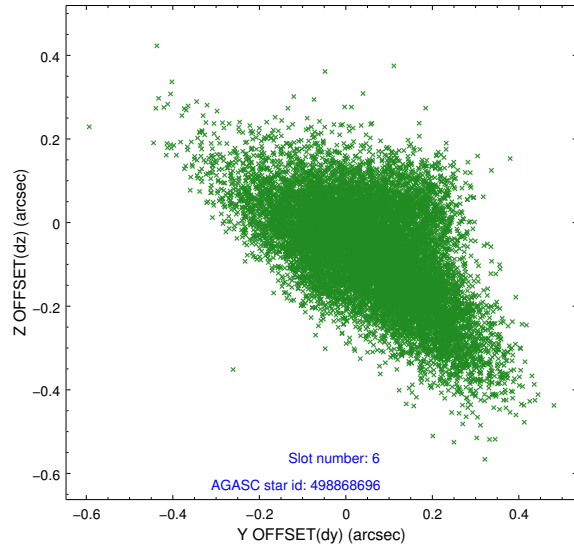
2.4.2 Slot 4



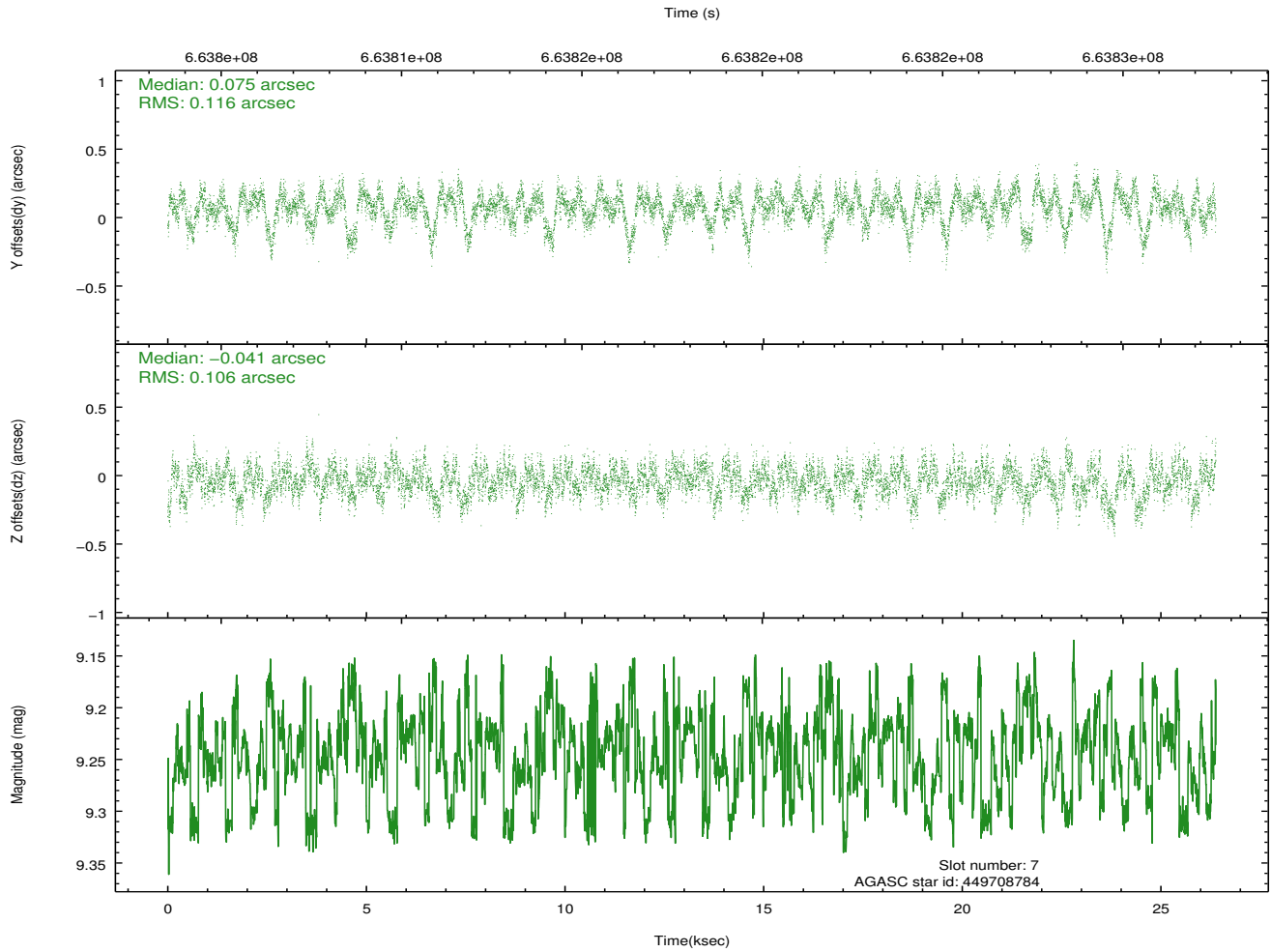
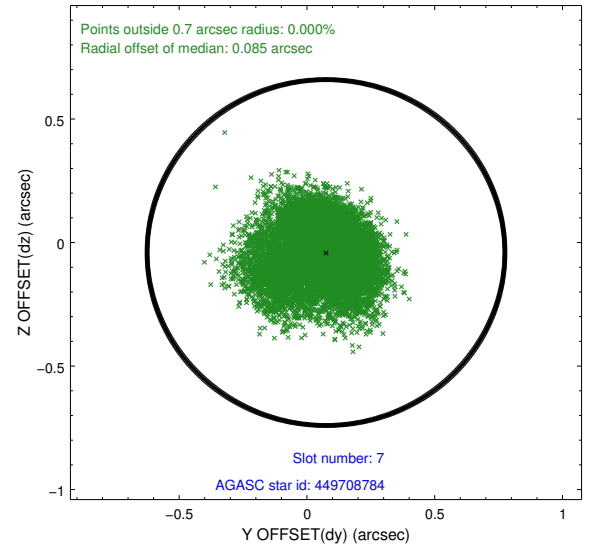
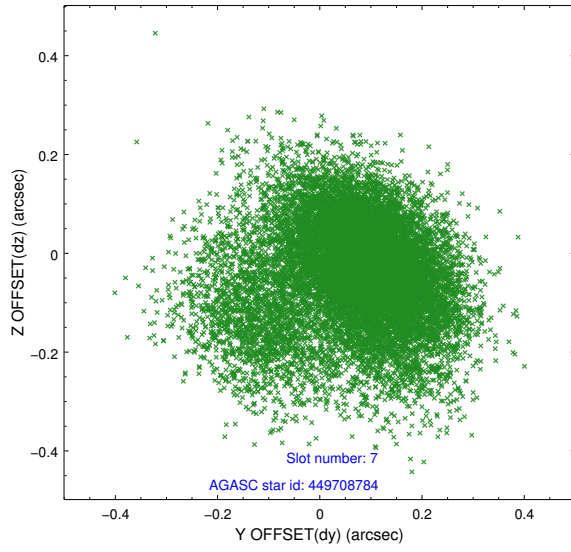
2.4.3 Slot 5



2.4.4 Slot 6

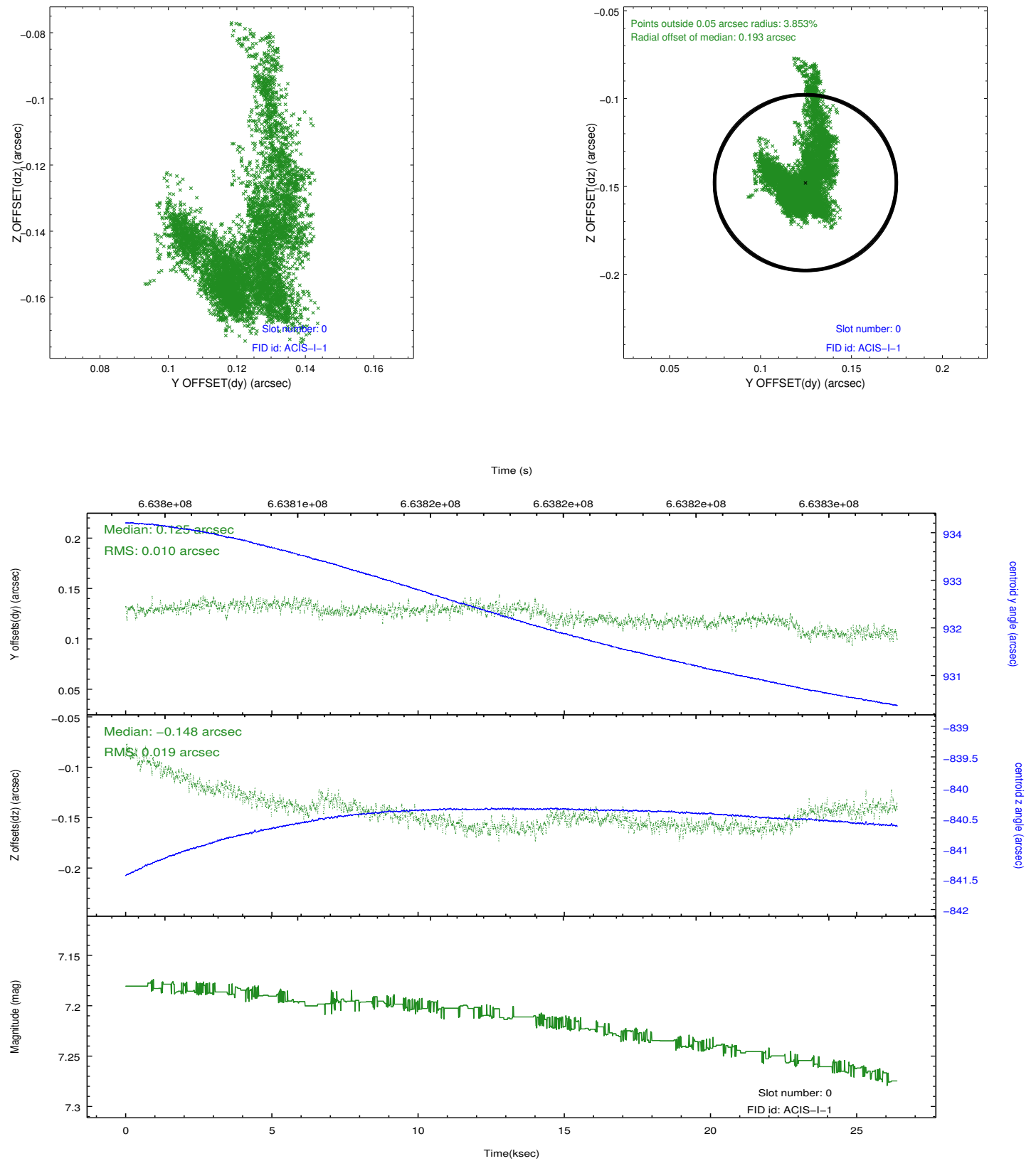


2.4.5 Slot 7

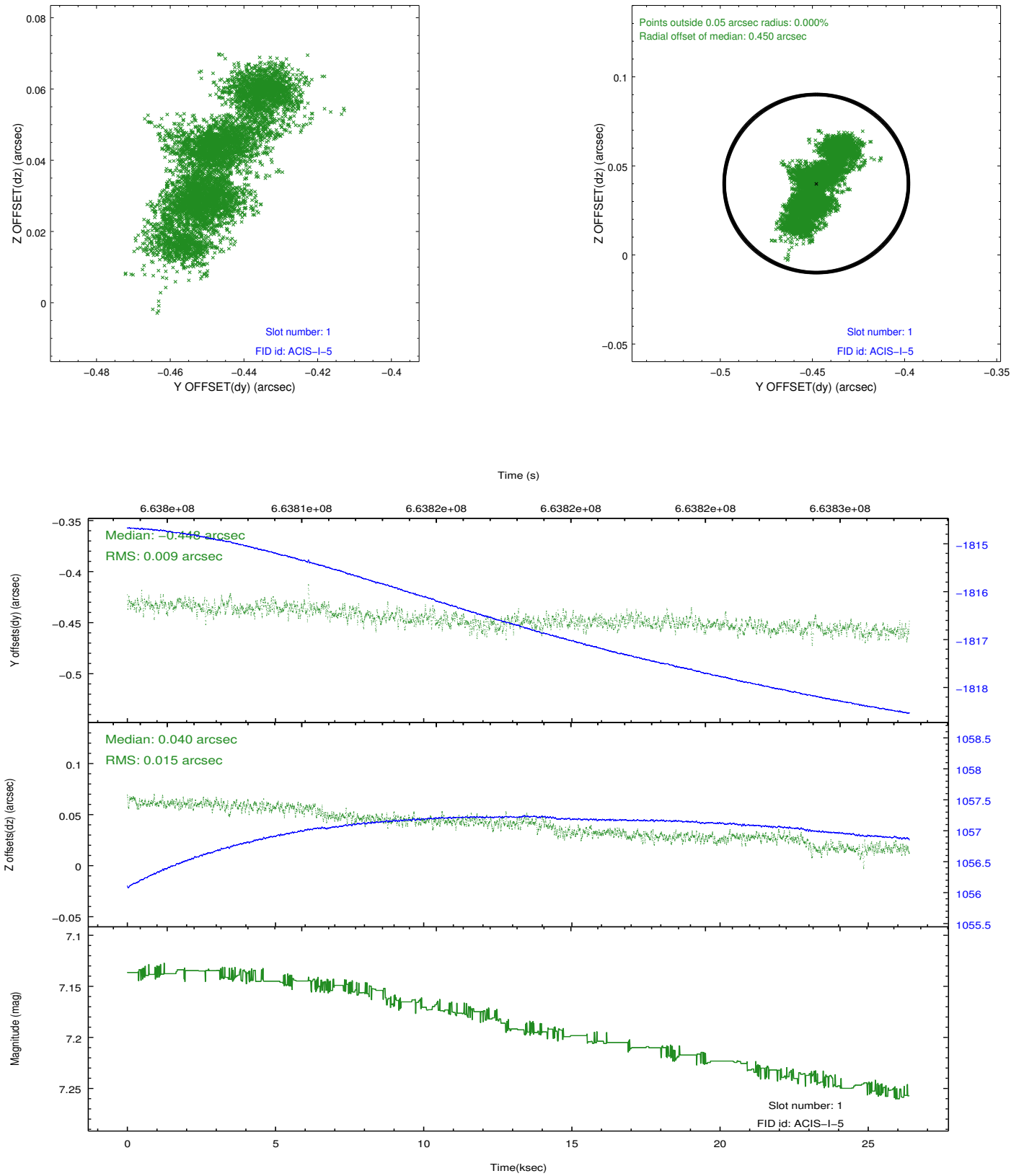


2.5 FID Slots

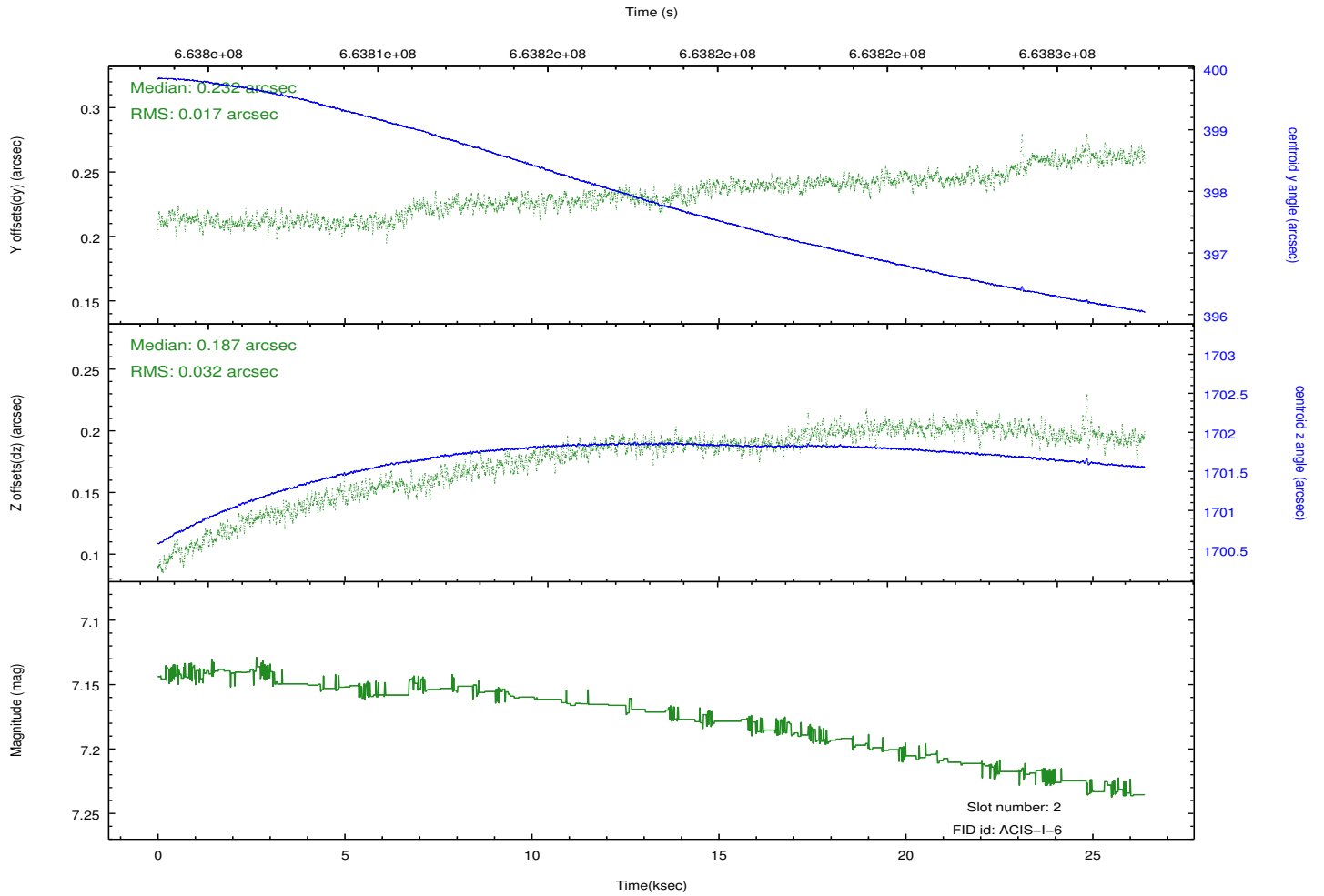
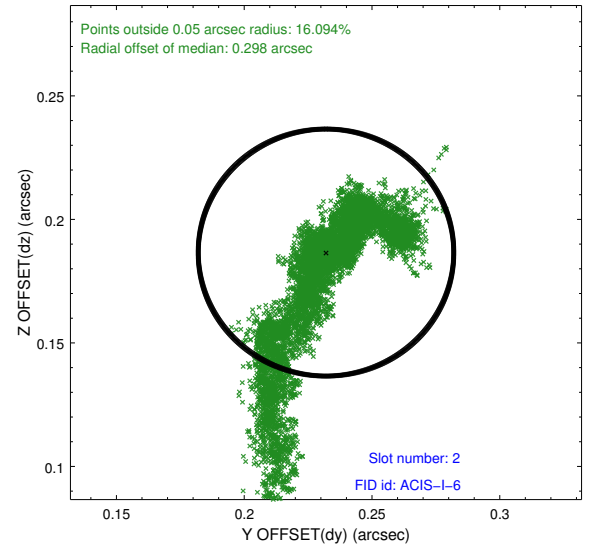
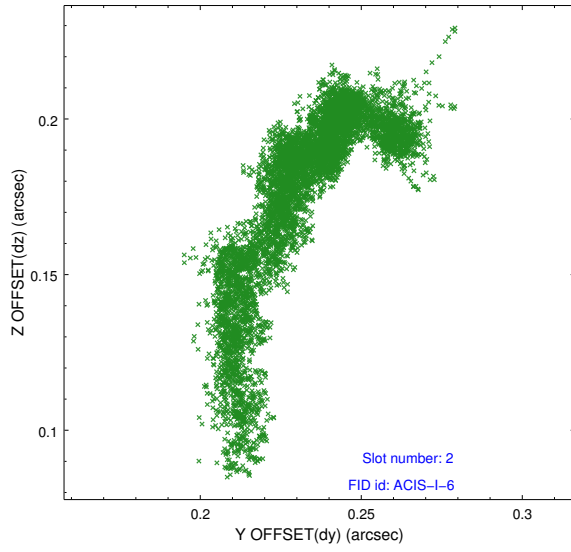
2.5.1 Slot 0



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)	2019.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.07288482666

A.2 Comments

Optional chip S2 not included.