

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22052 - L2 Version 1
Chandra X-Ray Center

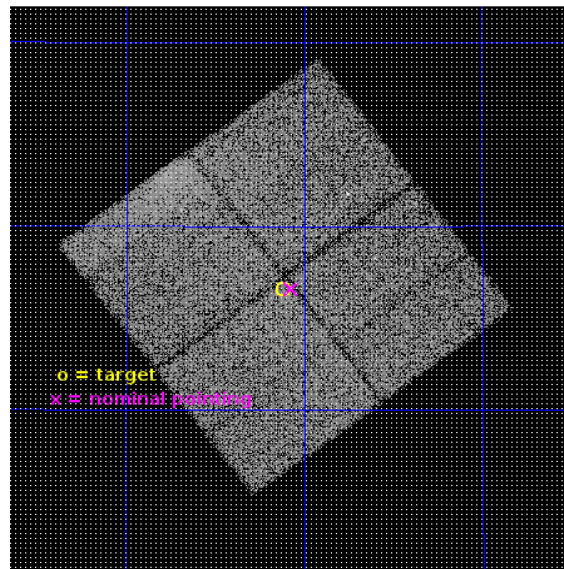
L2 Processing Date : Jan 21 2019

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1 Front

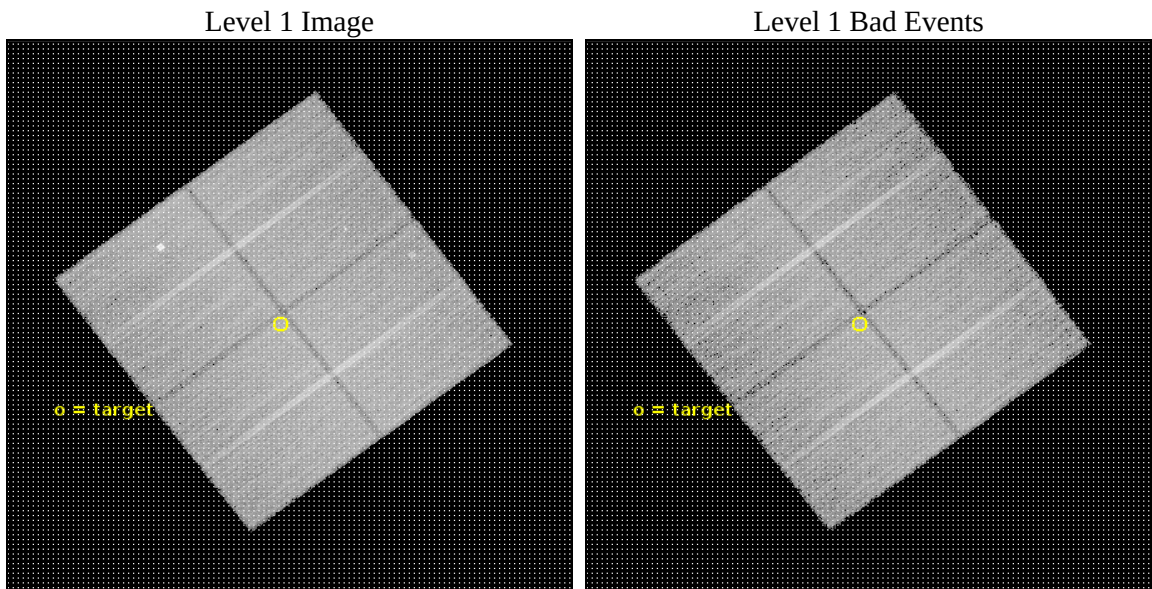
seq_num	801825	Sequence number
obs_id	22052	Observation id
title	A direct Chandra - Suzaku comparison of cluster outskirts	Proposal
observer	Andrea Morandi	Principal investigator
object	A773	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.27875	Observer's specified target RA [deg]
dec_targ	51.608944	Observer's specified target Dec [deg]
ra_nom	139.26783872652	Nominal RA [deg]
dec_nom	51.609932860959	Nominal Dec [deg]
roll_nom	143.21725458815	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31554.227319002	Sum of GTIs [s]
livetime	31141.948109195	Livetime [s]
ontime0	31550.963118792	Sum of GTIs [s]
ontime1	31544.722068191	Sum of GTIs [s]
ontime2	31554.186279058	Sum of GTIs [s]
ontime3	31554.227319002	Sum of GTIs [s]
l2events	92733	Number of level 2 events



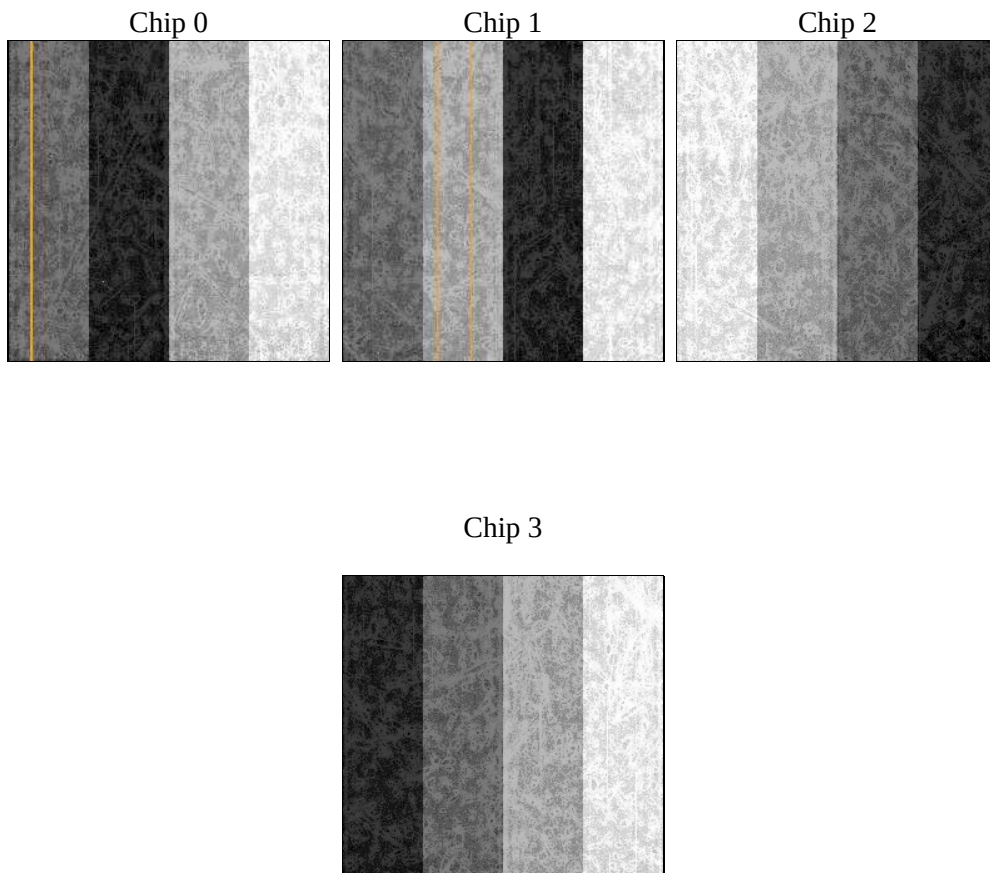
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31475.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	31554.227319002	Sum of GTIs [s]
caldbver	4.8.2	 	ontime0	31550.963118792	Sum of GTIs [s]
date	2019-01-21T04:53:08	Date and time of file creation	ontime1	31544.722068191	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31554.186279058	Sum of GTIs [s]
			ontime3	31554.227319002	Sum of GTIs [s]
			l1events	939860	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	217874	231062	249719	241205
rejected events	189937	195569	223487	216146
rejected %	87%	84%	89%	89%

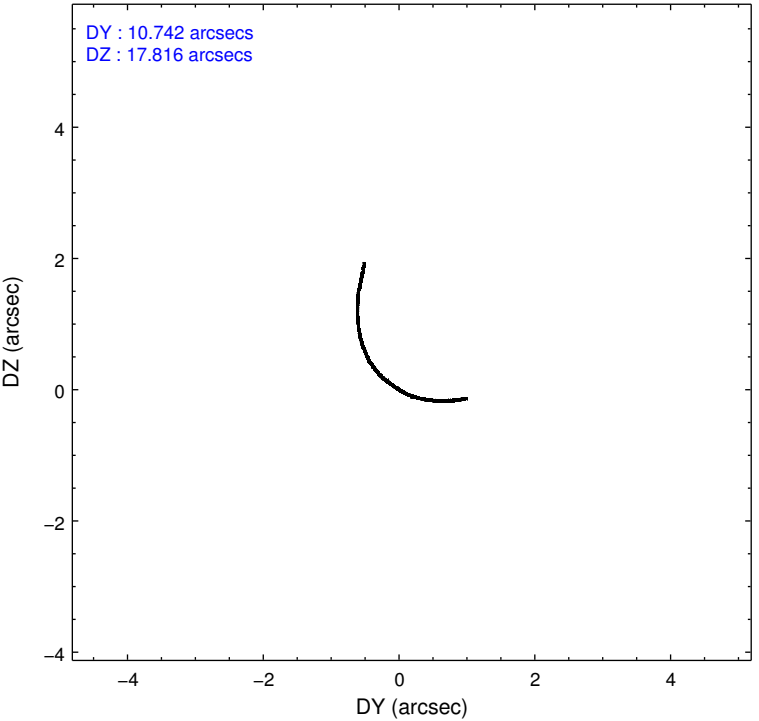
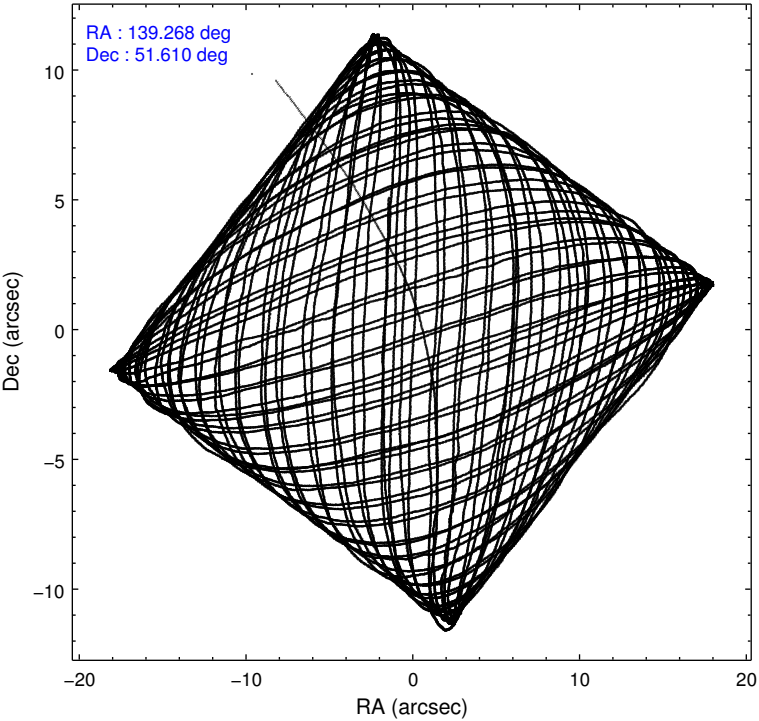
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9791	15085	9519	8640
	4%	6%	3%	3%
grade 1 events	126	169	150	144
	0%	0%	0%	0%
grade 2 events	6891	7834	6423	5525
	3%	3%	2%	2%
grade 3 events	2761	2951	2562	2671
	1%	1%	1%	1%
grade 4 events	2599	2758	2643	2654
	1%	1%	1%	1%
grade 5 events	10403	10431	9361	11234
	4%	4%	3%	4%
grade 6 events	5901	6869	5090	5570
	2%	2%	2%	2%
grade 7 events	179402	184965	213971	204767
	82%	80%	85%	84%

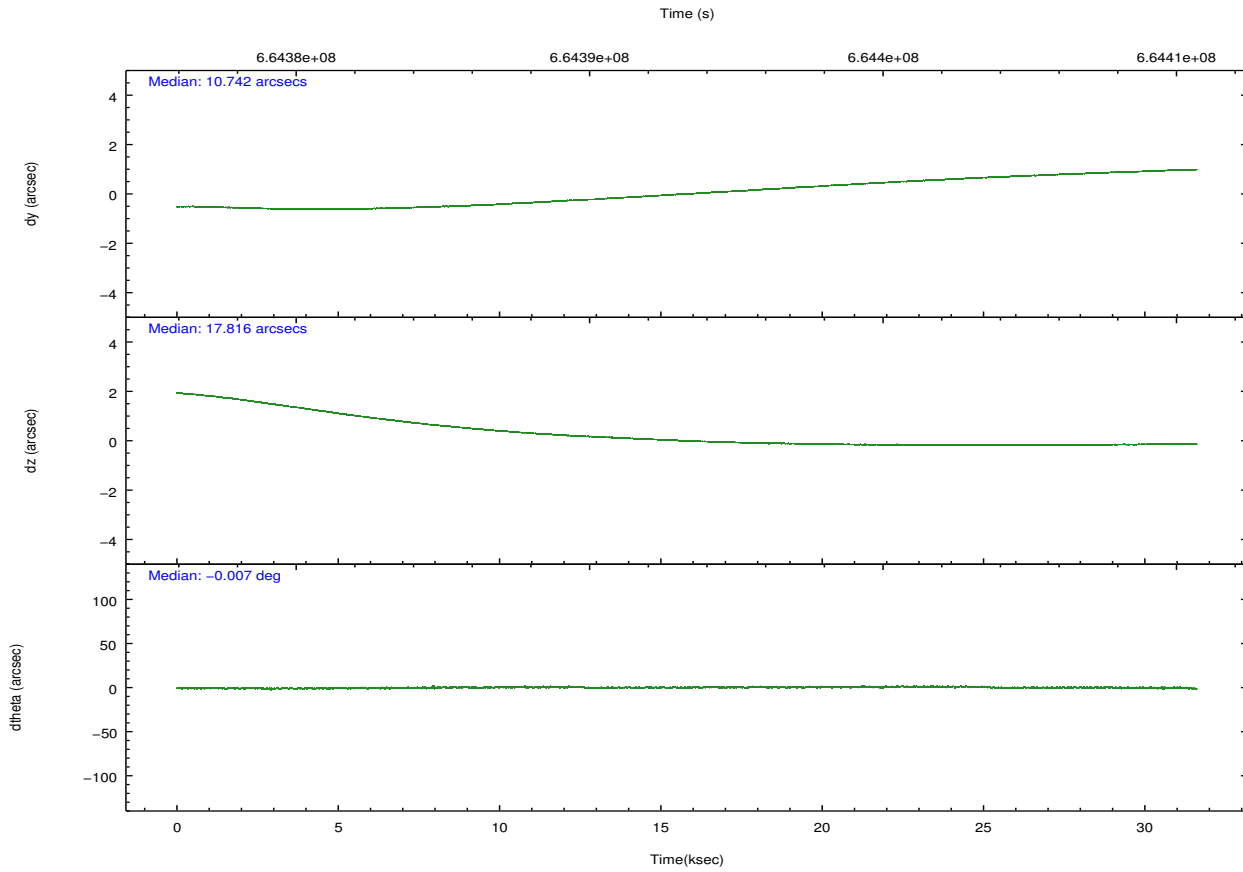
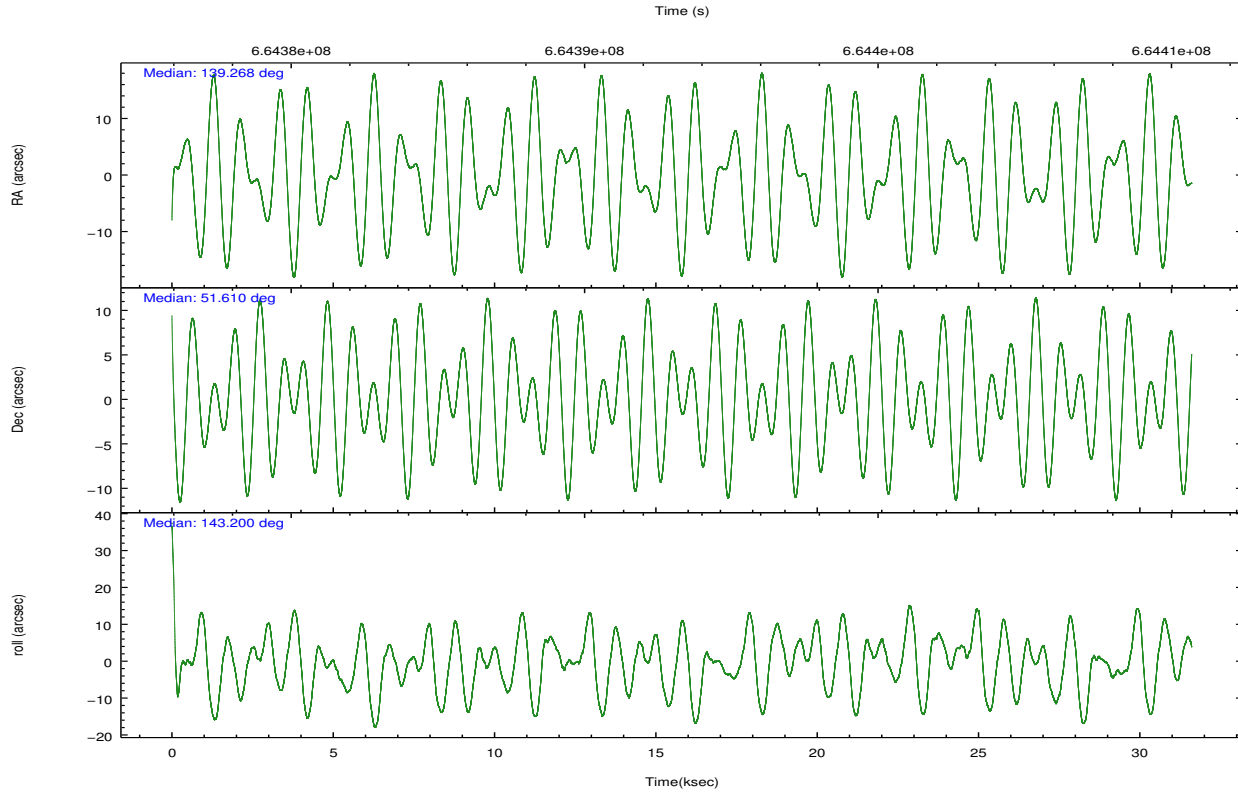
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	139.311985	139.267838726521
[deg] Pointing Dec	51.606798	51.60993286095874
[deg] Pointing Roll	142.973951	143.217254588153
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	664377657.184000	664376278.0754499
Observation start date	2019-01-20T13:19:48	2019-01-20T12:57:58
[s] Observation end time (MET)	664409132.184000	664409814.02745
Observation end date	2019-01-20T22:04:23	2019-01-20T22:16:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



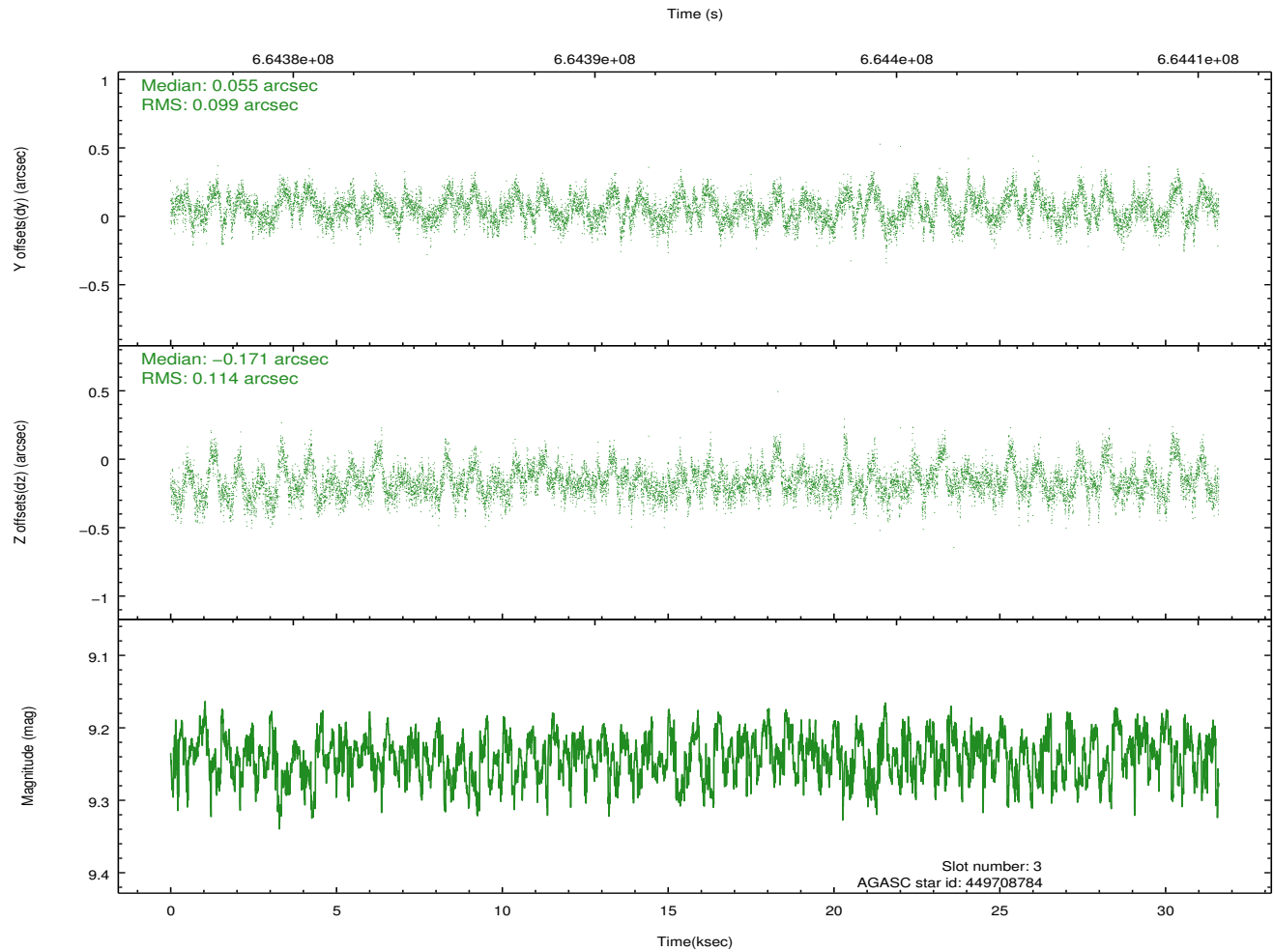
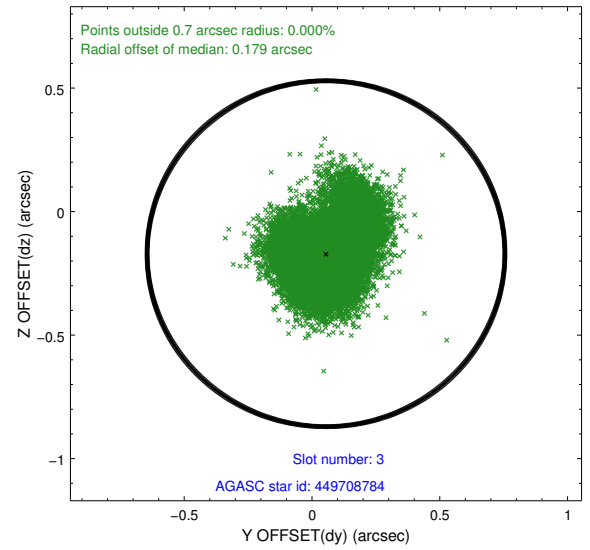
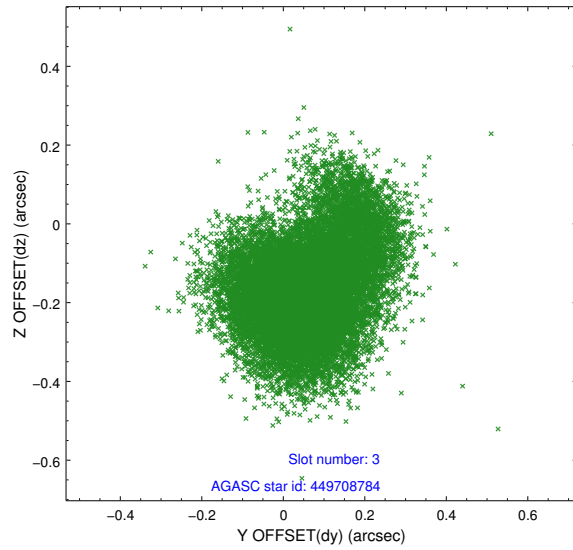


Slot Statistics

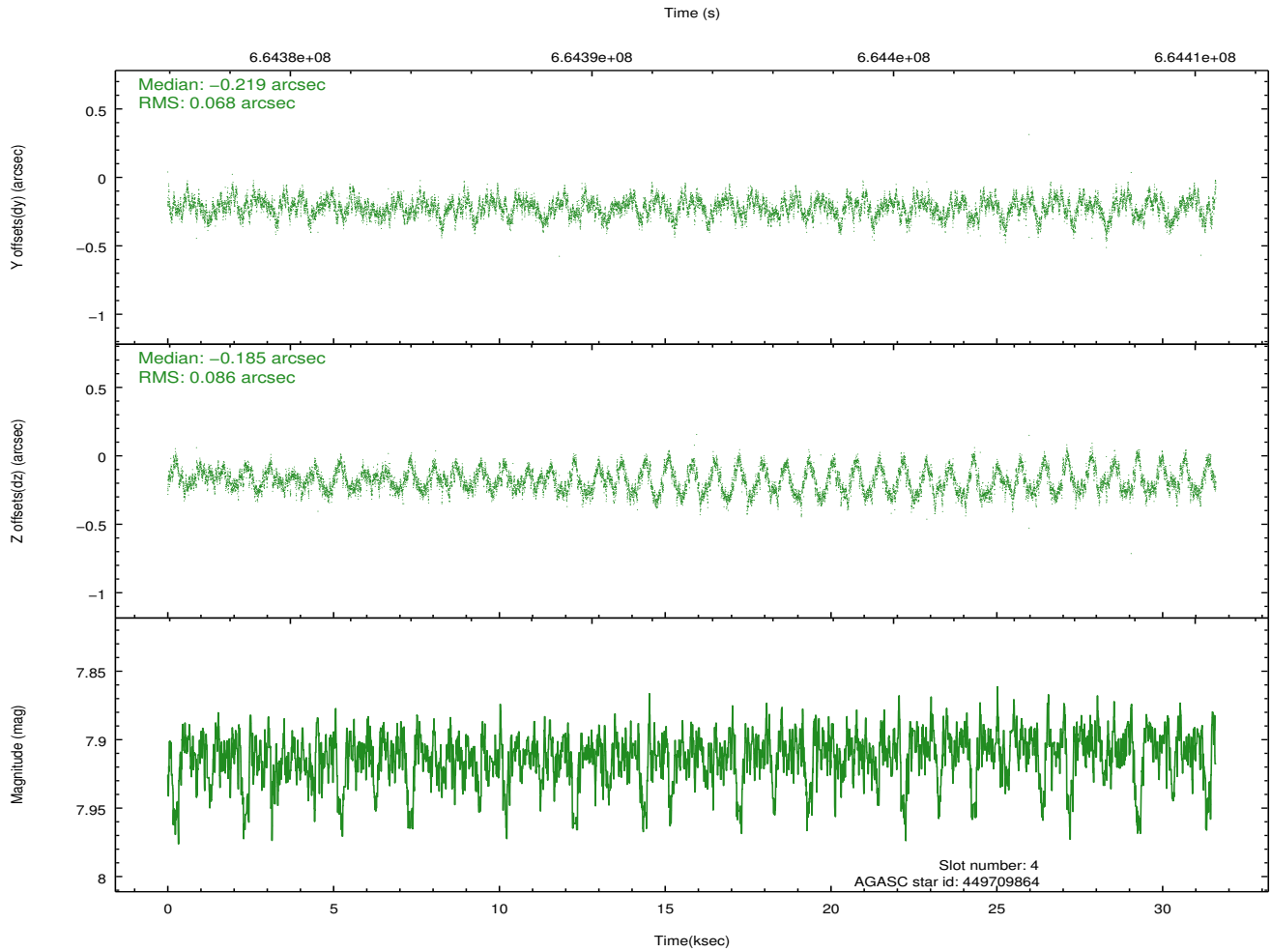
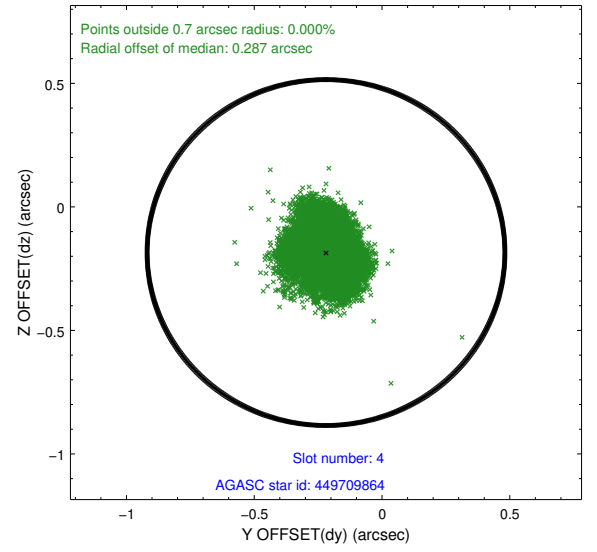
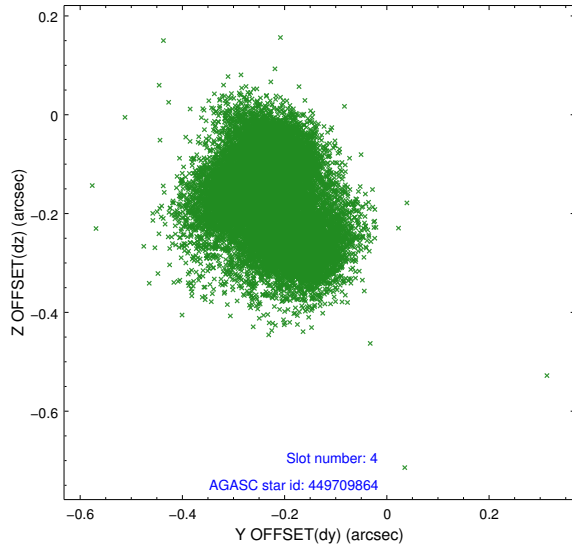
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	7709	1.000	0.087	-0.059	0.025	0.043	0.000000	0.000000	928.93	-841
1	FID		ACIS-I-5	7.21	7710	1.000	-0.448	0.016	0.020	0.030	0.000000	0.000000	-1819.84	1055
2	FID		ACIS-I-6	7.20	7709	1.000	0.271	0.112	0.029	0.039	0.000000	0.000000	394.38	1700
3	GUIDE	used	449708784	9.24	15383	1.000	0.055	-0.171	0.159	0.266	139.281247	51.322176	-560.80	860
4	GUIDE	used	449709864	7.91	15410	1.000	-0.219	-0.185	0.121	0.178	139.601682	51.402076	-962.39	195
5	GUIDE	used	449712184	9.42	15391	1.000	-0.043	-0.385	0.153	0.256	138.777153	51.162194	2.49	2001
6	GUIDE	used	449712984	8.71	15402	1.000	0.079	0.221	0.181	0.282	139.803051	51.633381	-815.76	-739
7	GUIDE	used	449708464	9.43	15389	1.000	0.139	0.516	0.209	0.363	140.342196	51.951871	-1065.92	-2380

2.4 Star Slots

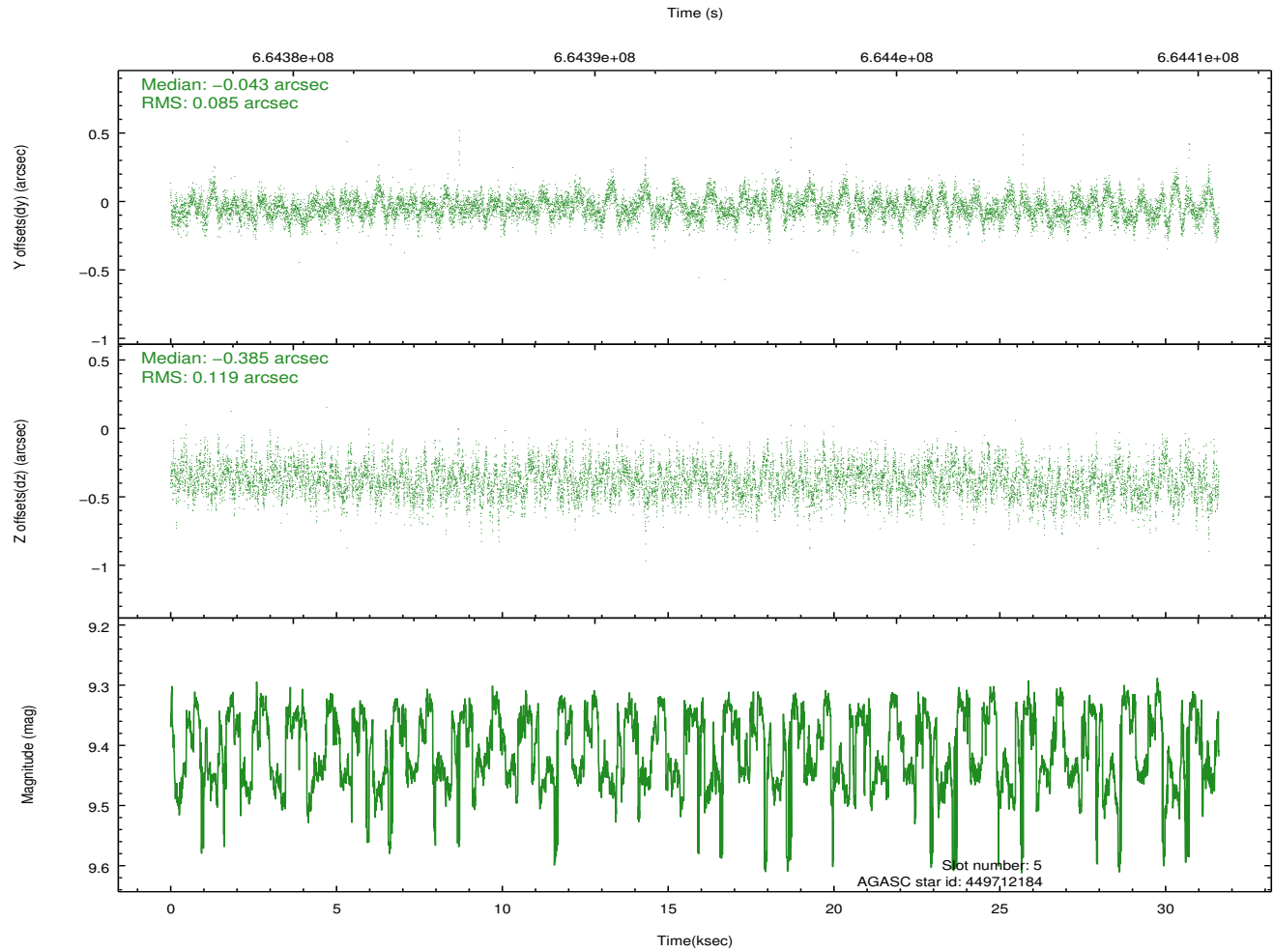
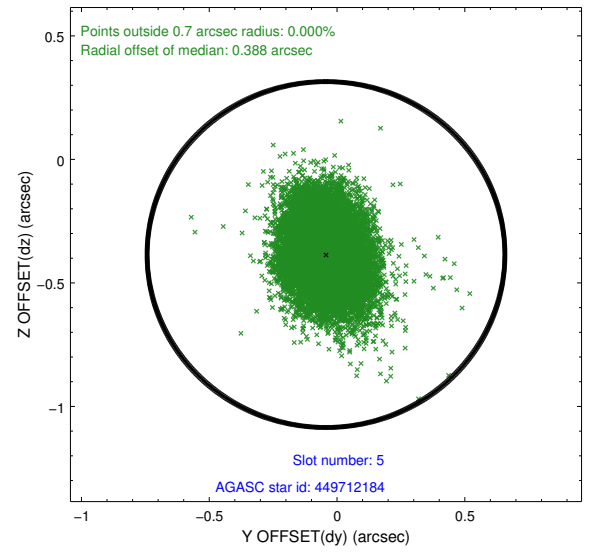
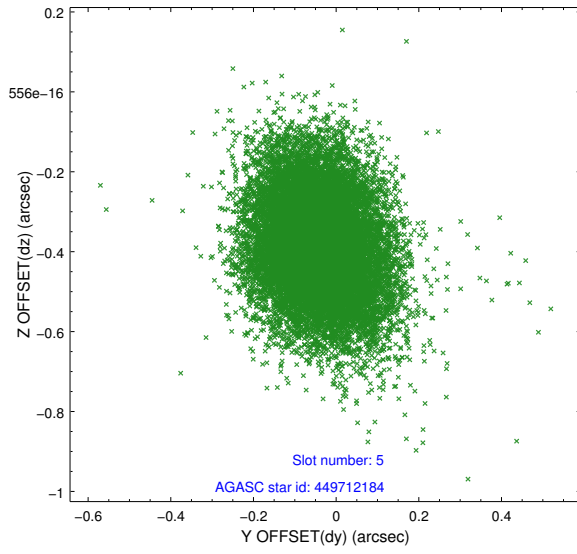
2.4.1 Slot 3



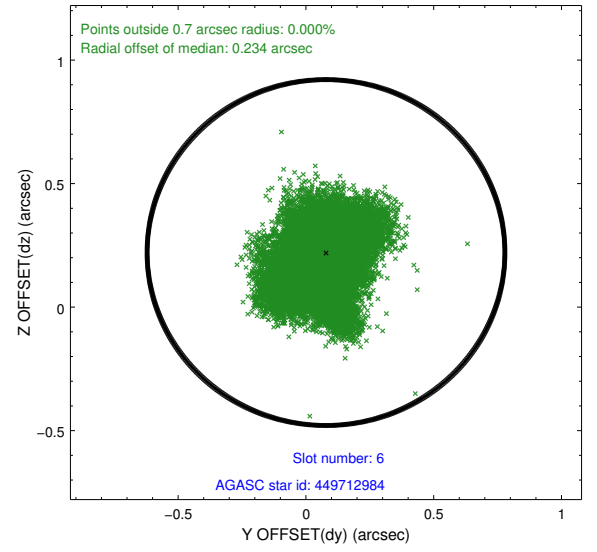
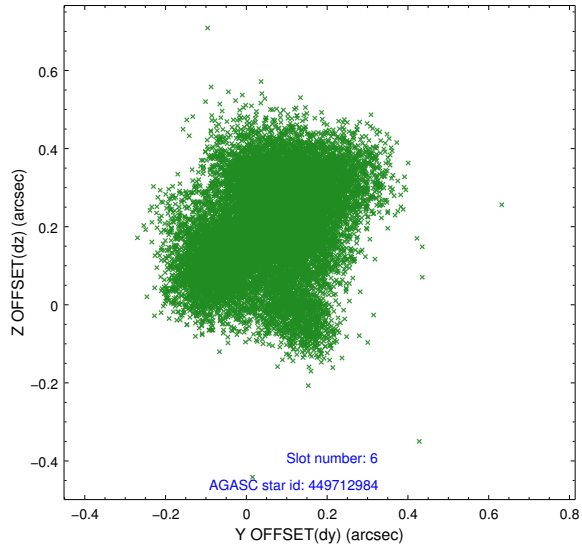
2.4.2 Slot 4



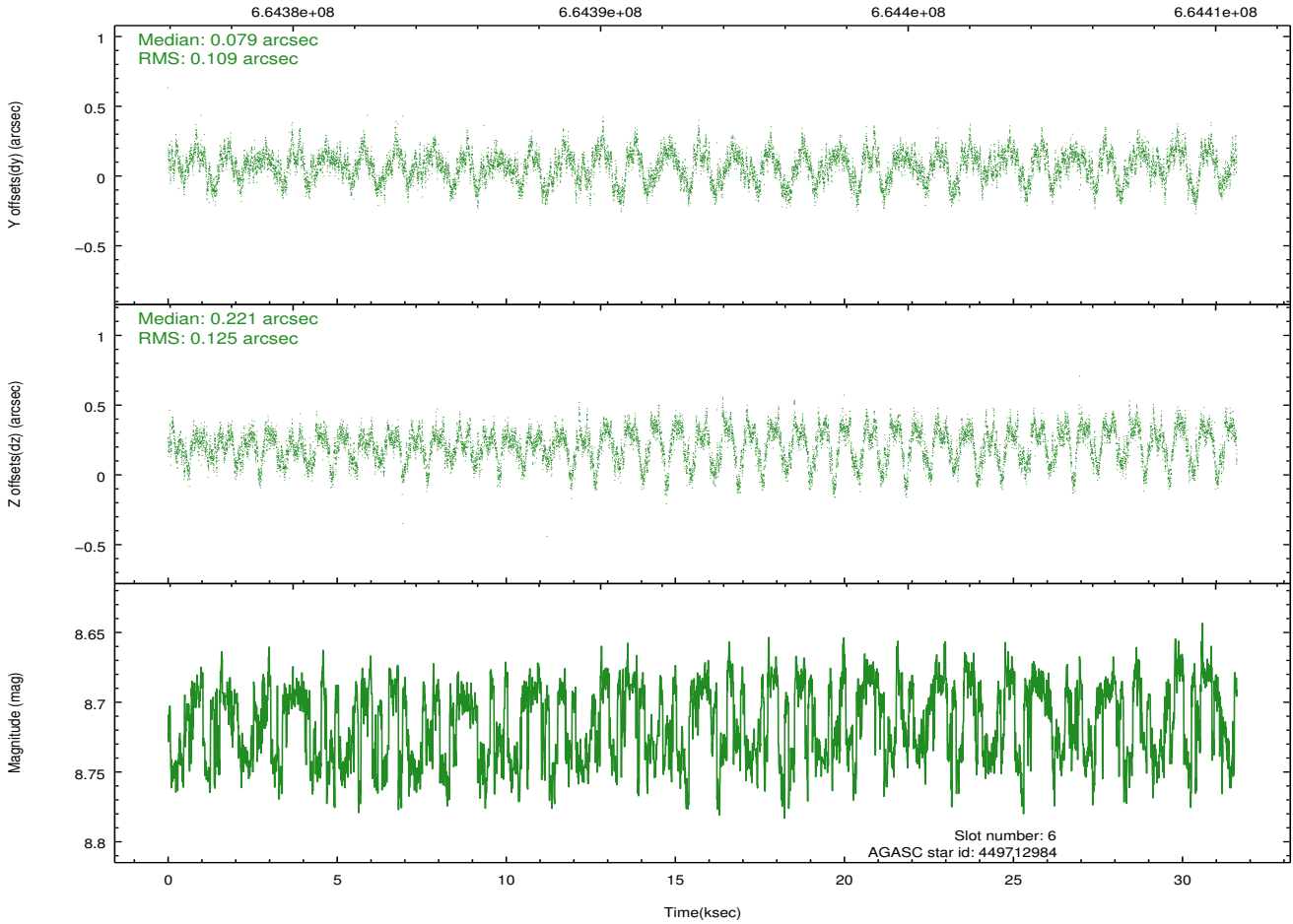
2.4.3 Slot 5



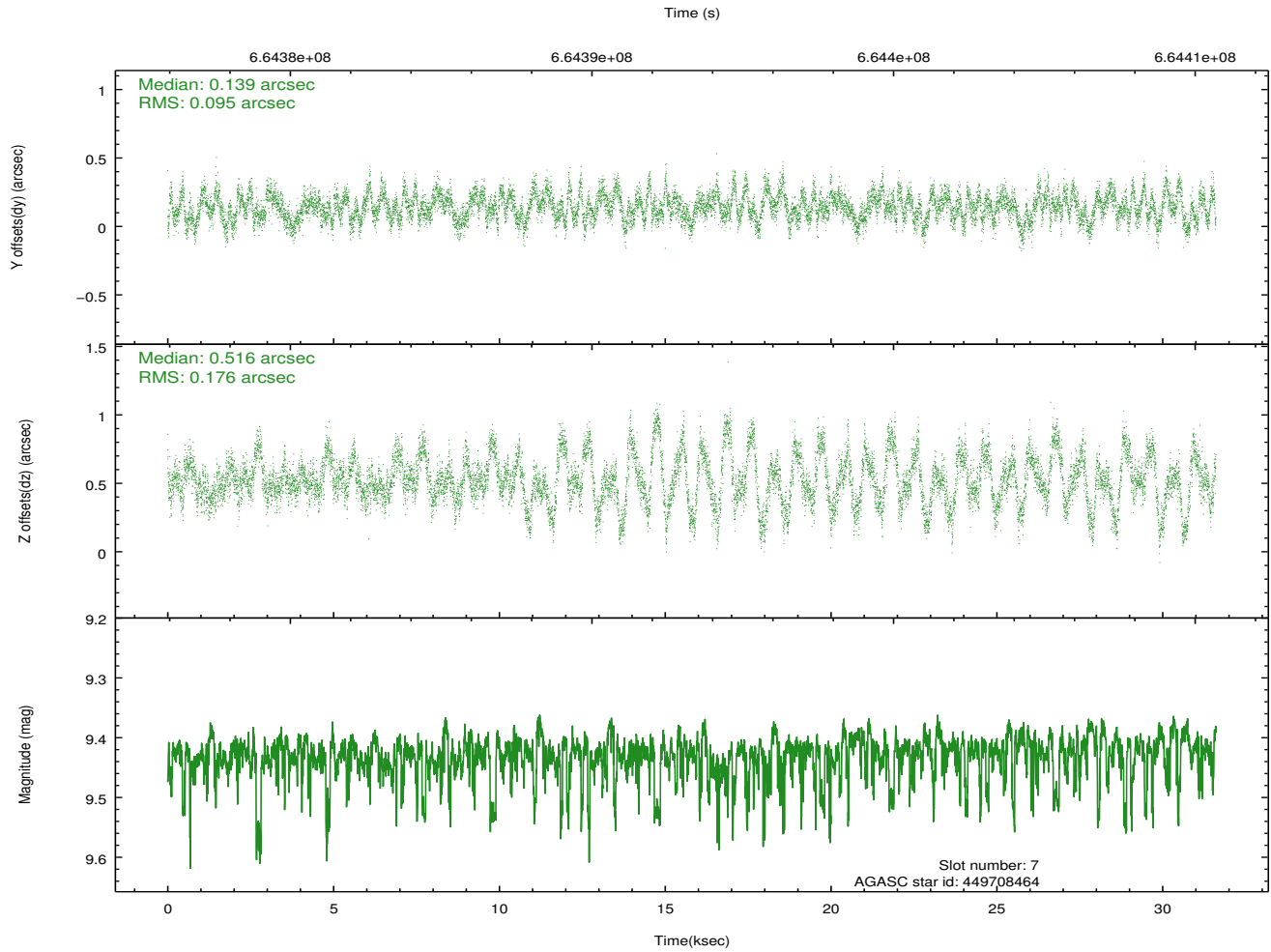
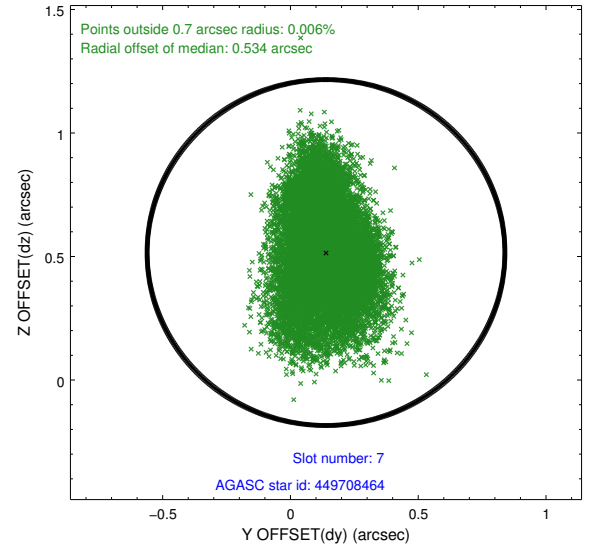
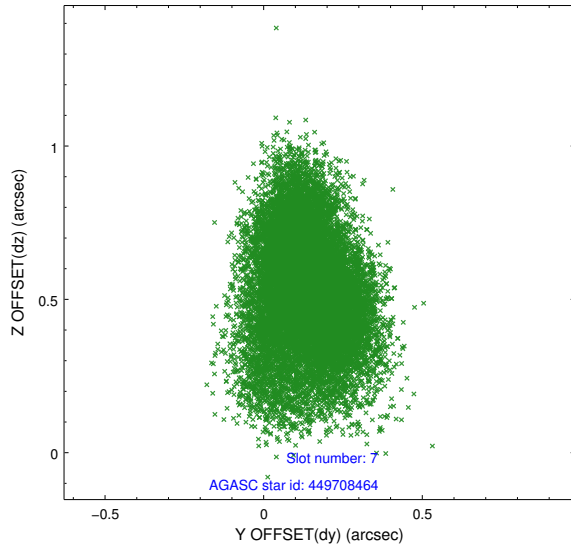
2.4.4 Slot 6



Time (s)

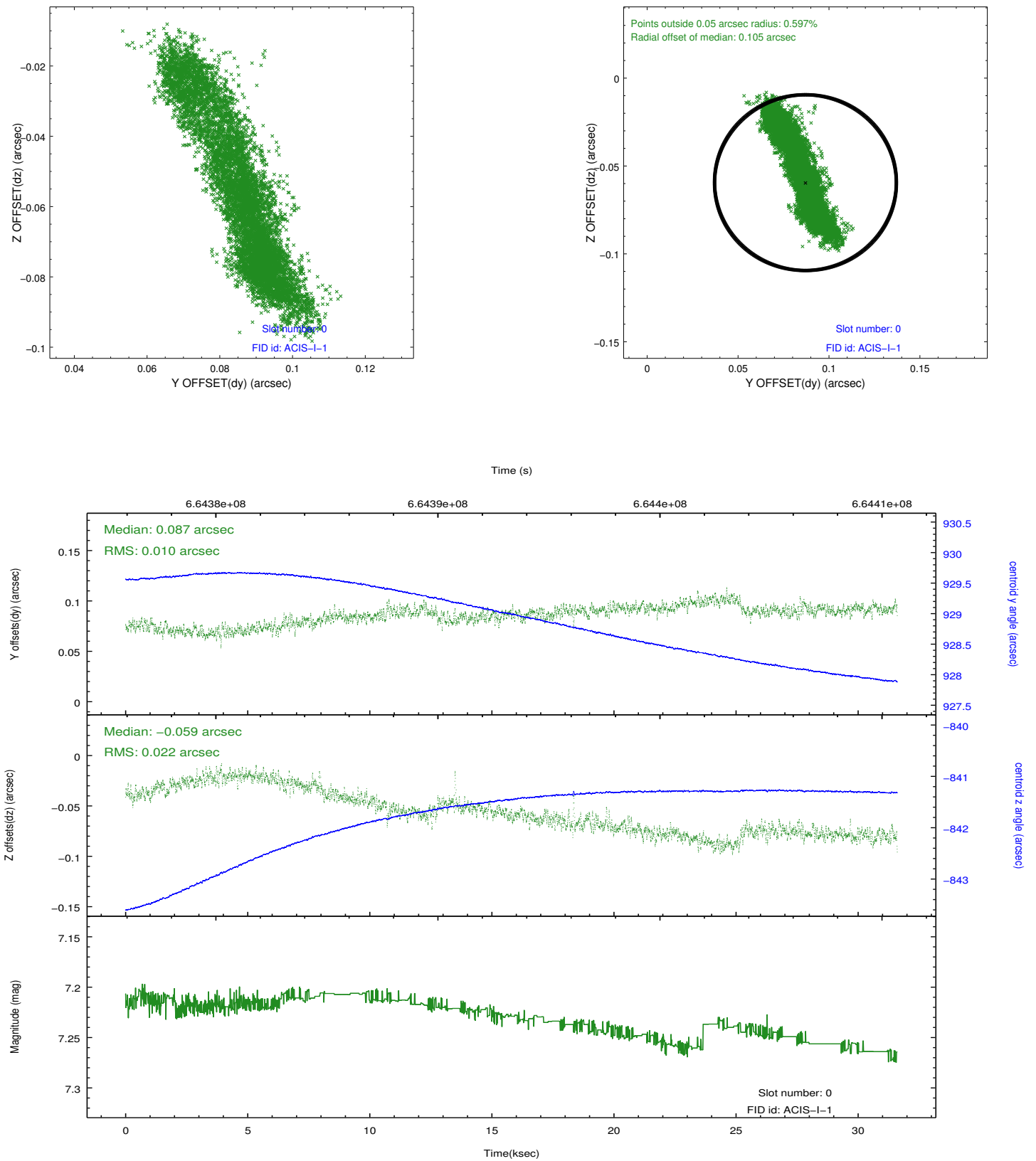


2.4.5 Slot 7

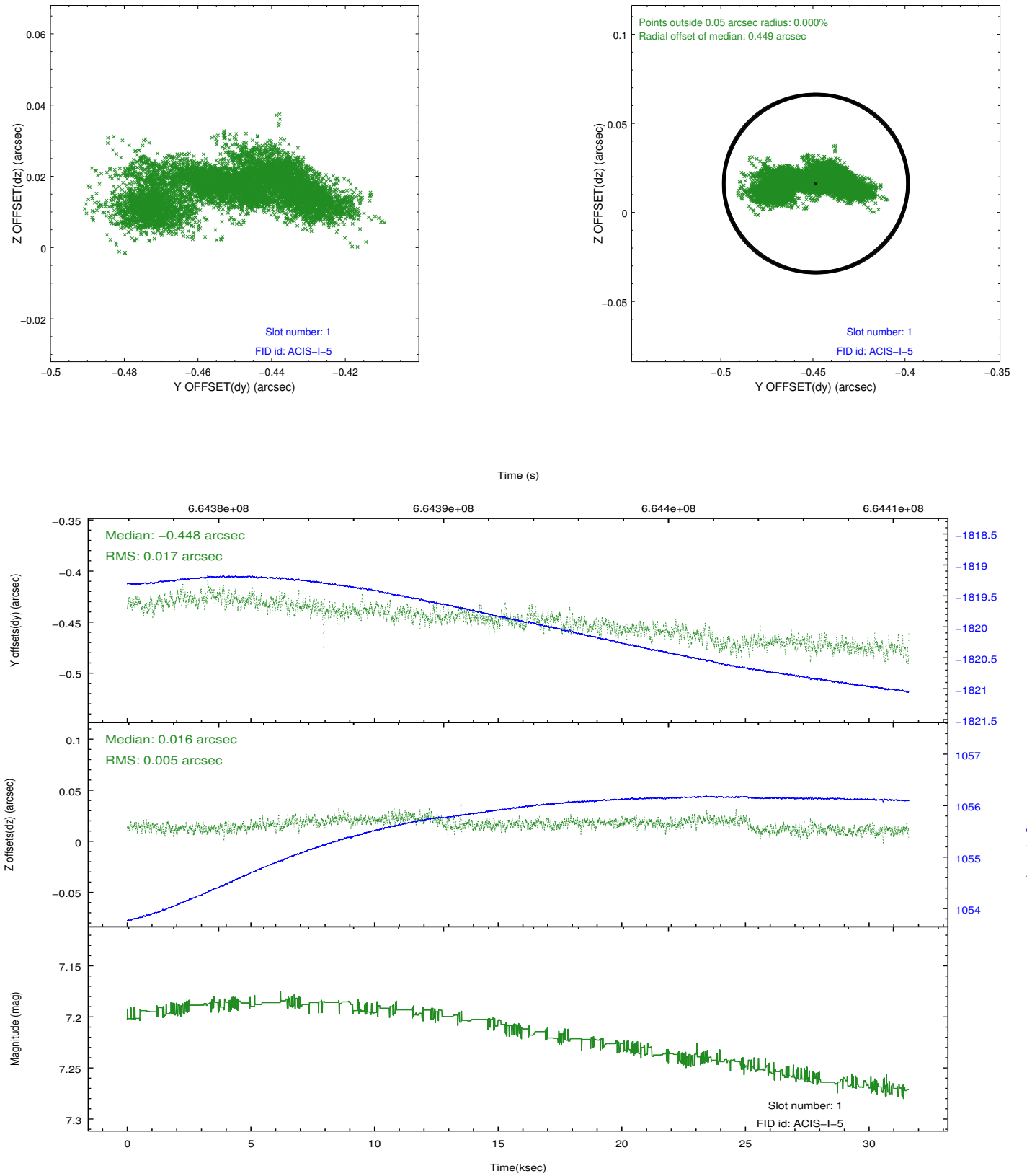


2.5 FID Slots

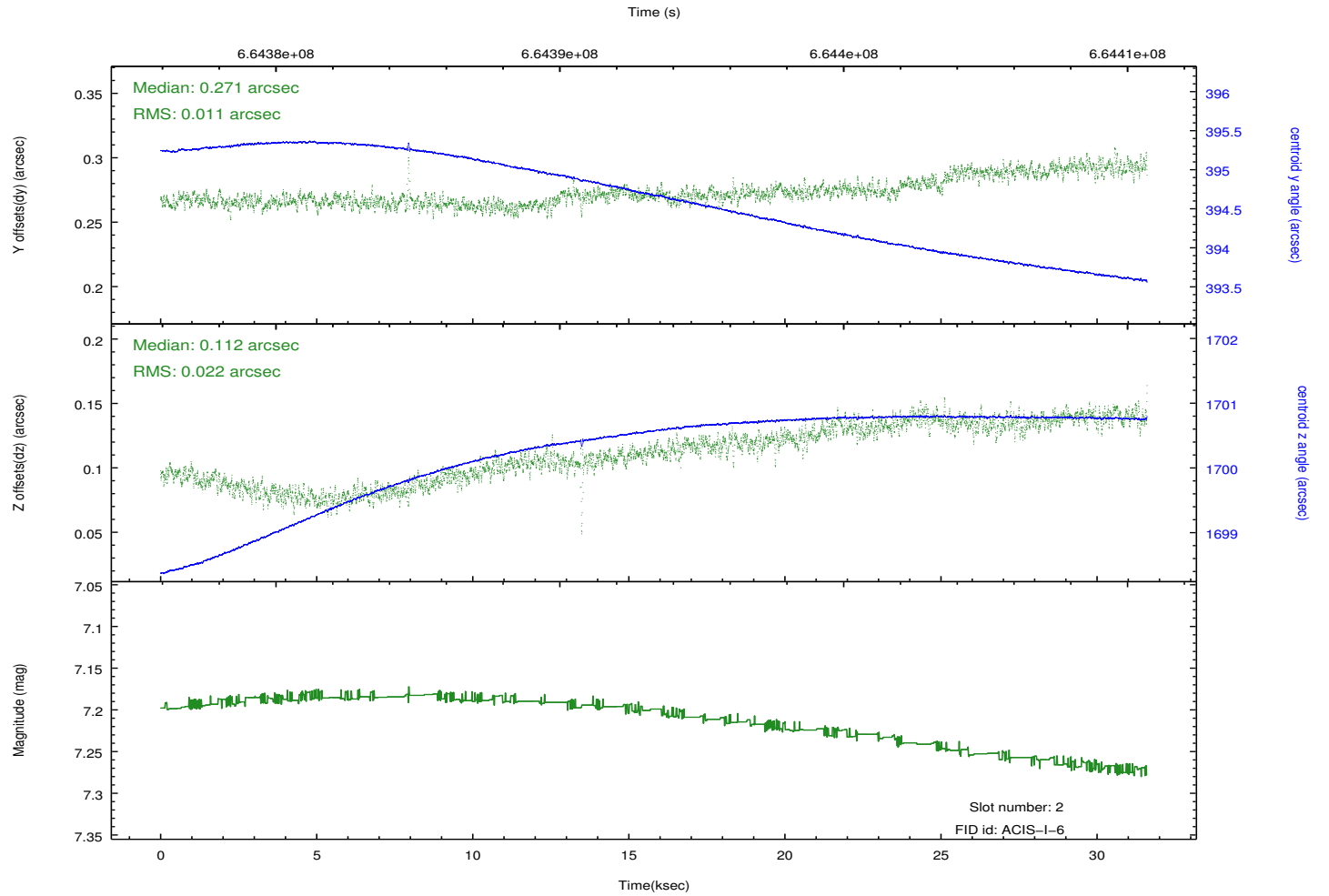
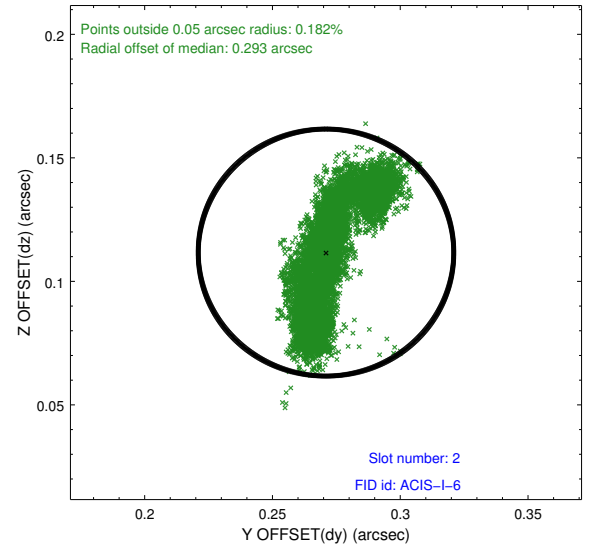
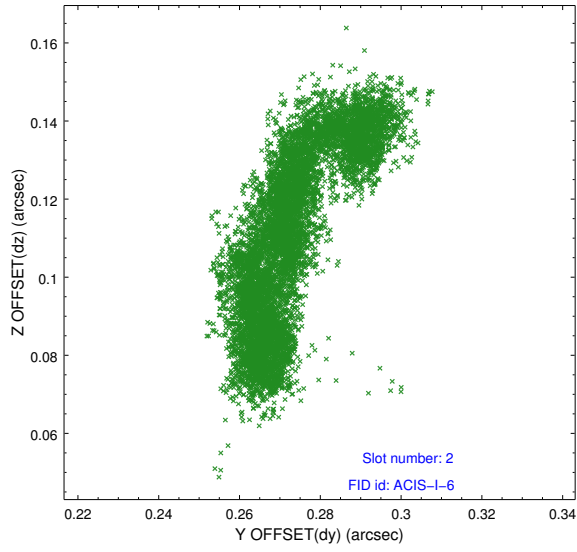
2.5.1 Slot 0



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)	2019.01.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.554227319002

A.2 Comments