

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18319 - L2 Version 1
Chandra X-Ray Center

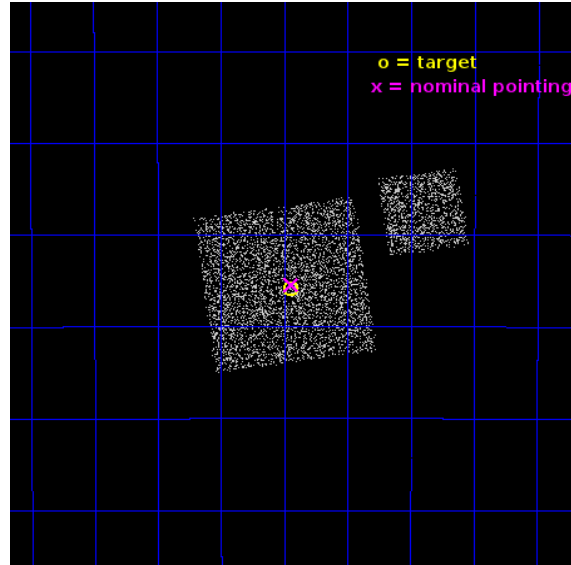
L2 Processing Date : May 12 2016

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1 Front

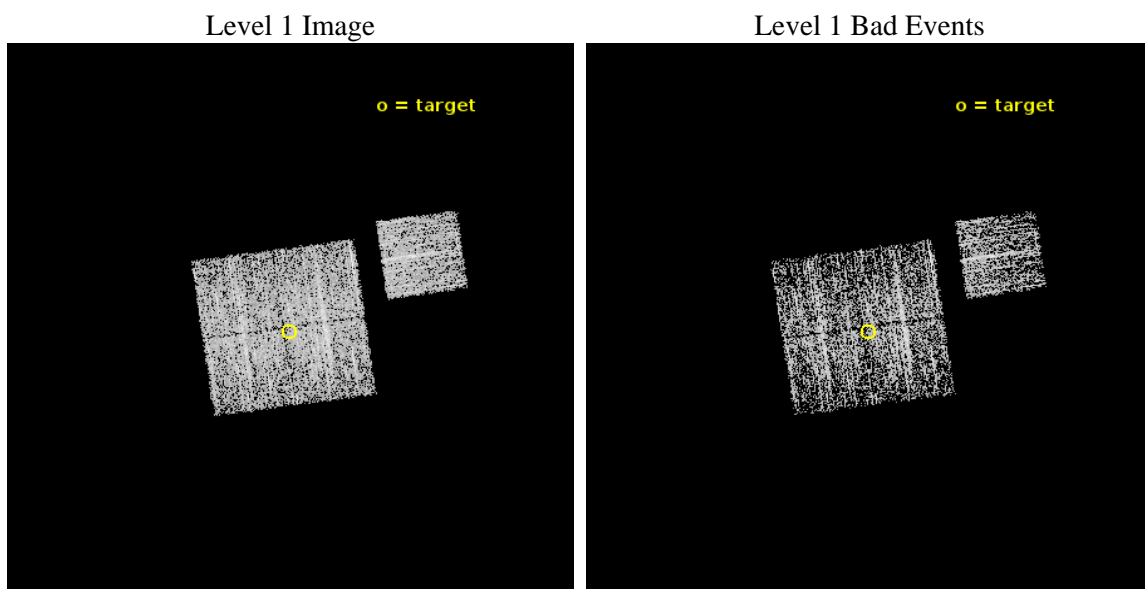
seq_num	300350	Sequence number
obs_id	18319	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.73742	Observer's specified target RA [deg]
dec_targ	-27.93097	Observer's specified target Dec [deg]
ra_nom	265.73580598306	Nominal RA [deg]
dec_nom	-27.924198695413	Nominal Dec [deg]
roll_nom	82.019996320812	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.7659620047	Sum of GTIs [s]
livetime	1930.2124398971	Livetime [s]
ontime0	1955.6428420544	Sum of GTIs [s]
ontime1	1955.6838819981	Sum of GTIs [s]
ontime2	1955.724922061	Sum of GTIs [s]
ontime3	1955.7659620047	Sum of GTIs [s]
ontime6	1955.6018019915	Sum of GTIs [s]
l2events	6652	Number of level 2 events



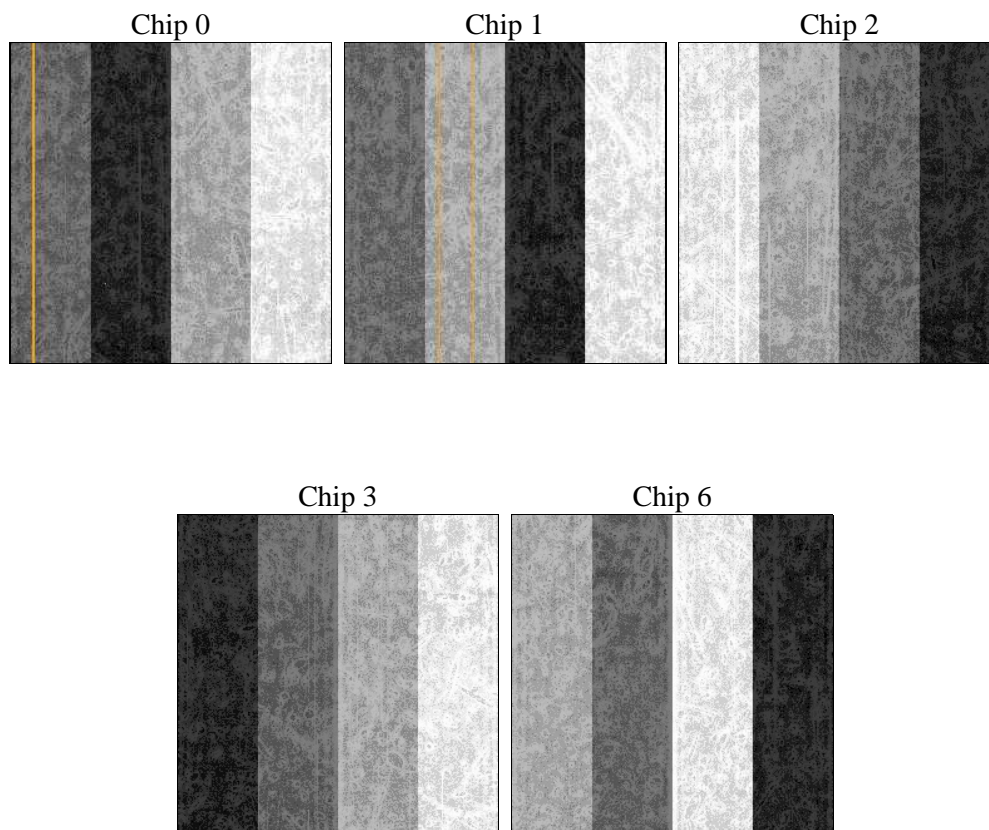
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.7659620047	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.6428420544	Sum of GTIs [s]
date	2016-05-12T06:23:12	Date and time of file creation	ontime1	1955.6838819981	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.724922061	Sum of GTIs [s]
			ontime3	1955.7659620047	Sum of GTIs [s]
			ontime6	1955.6018019915	Sum of GTIs [s]
			l1events	60687	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11366	11836	12695	12017	12773
rejected events	9760	10164	11149	10597	11218
rejected %	85%	85%	87%	88%	87%

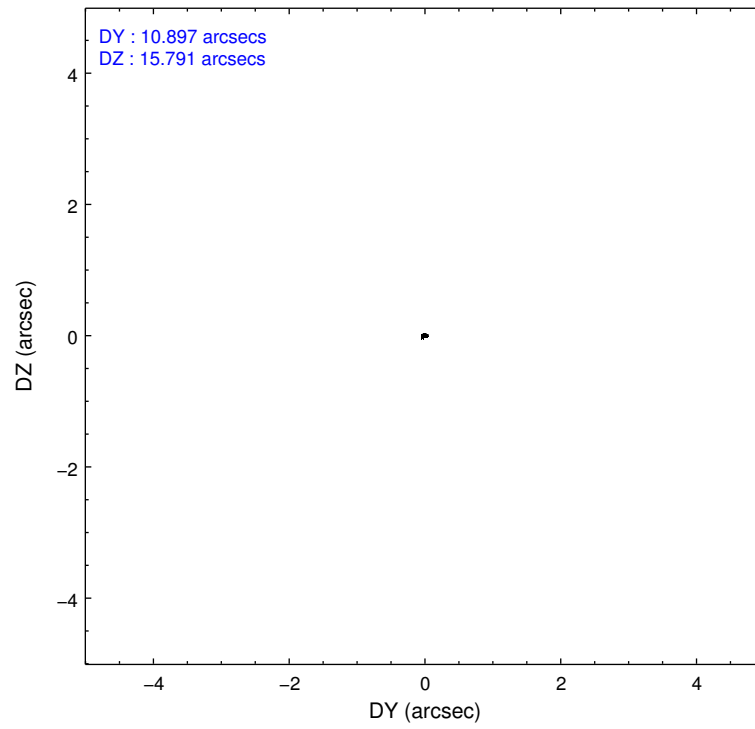
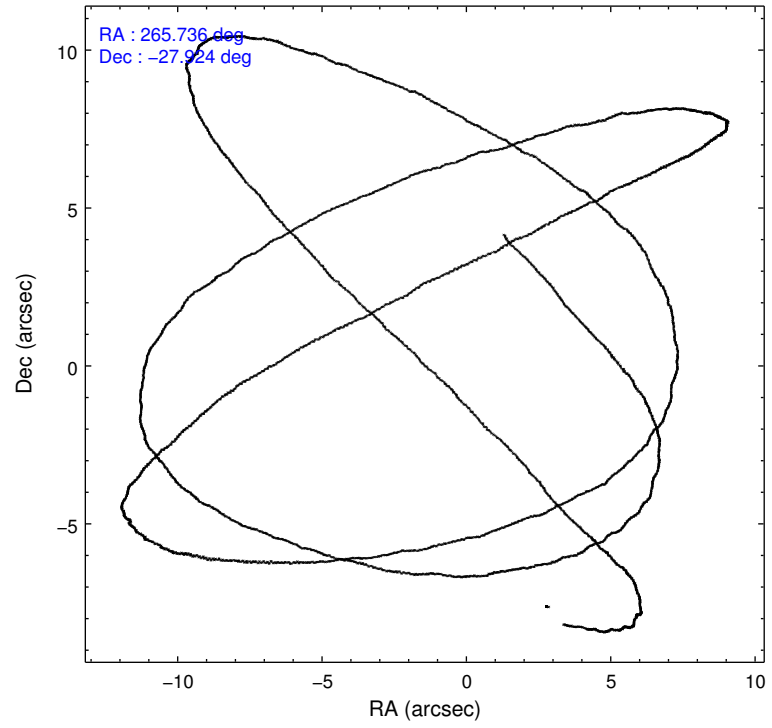
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	624	623	676	585	607
	5%	5%	5%	4%	4%
grade 1 events	9	6	9	9	4
	0%	0%	0%	0%	0%
grade 2 events	397	412	349	292	305
	3%	3%	2%	2%	2%
grade 3 events	164	157	128	147	142
	1%	1%	1%	1%	1%
grade 4 events	137	134	139	128	149
	1%	1%	1%	1%	1%
grade 5 events	505	526	485	559	546
	4%	4%	3%	4%	4%
grade 6 events	286	352	256	270	354
	2%	2%	2%	2%	2%
grade 7 events	9244	9626	10653	10027	10666
	81%	81%	83%	83%	83%

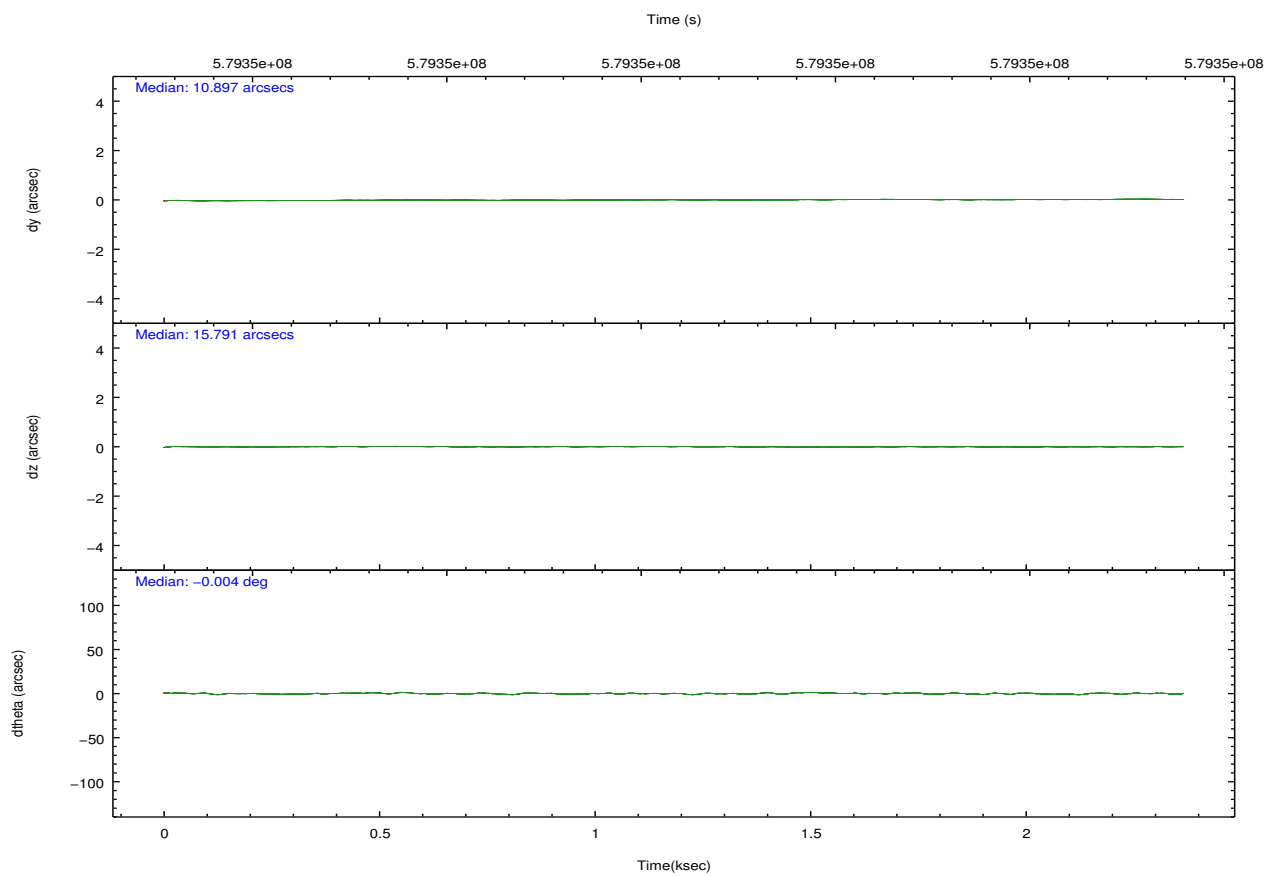
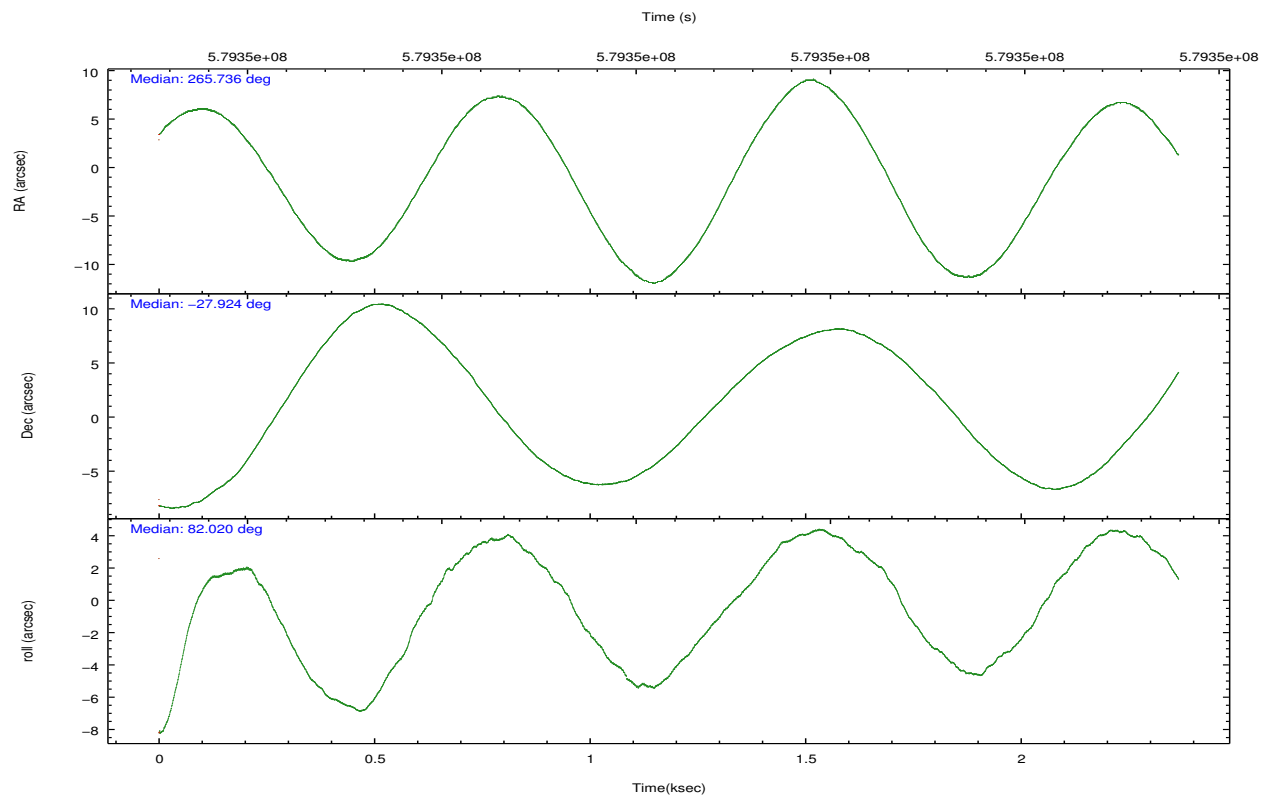
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.747507	265.7358059830614
[deg] Pointing Dec	-27.949547	-27.92419869541335
[deg] Pointing Roll	81.816791	82.0199963208117
[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)	579350586.184000	579350210.1101
Observation start date	2016-05-11T10:41:58	2016-05-11T10:36:50
[s] Observation end time (MET)	579352766.184000	579352900.22276
Observation end date	2016-05-11T11:18:18	2016-05-11T11:21:40
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	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



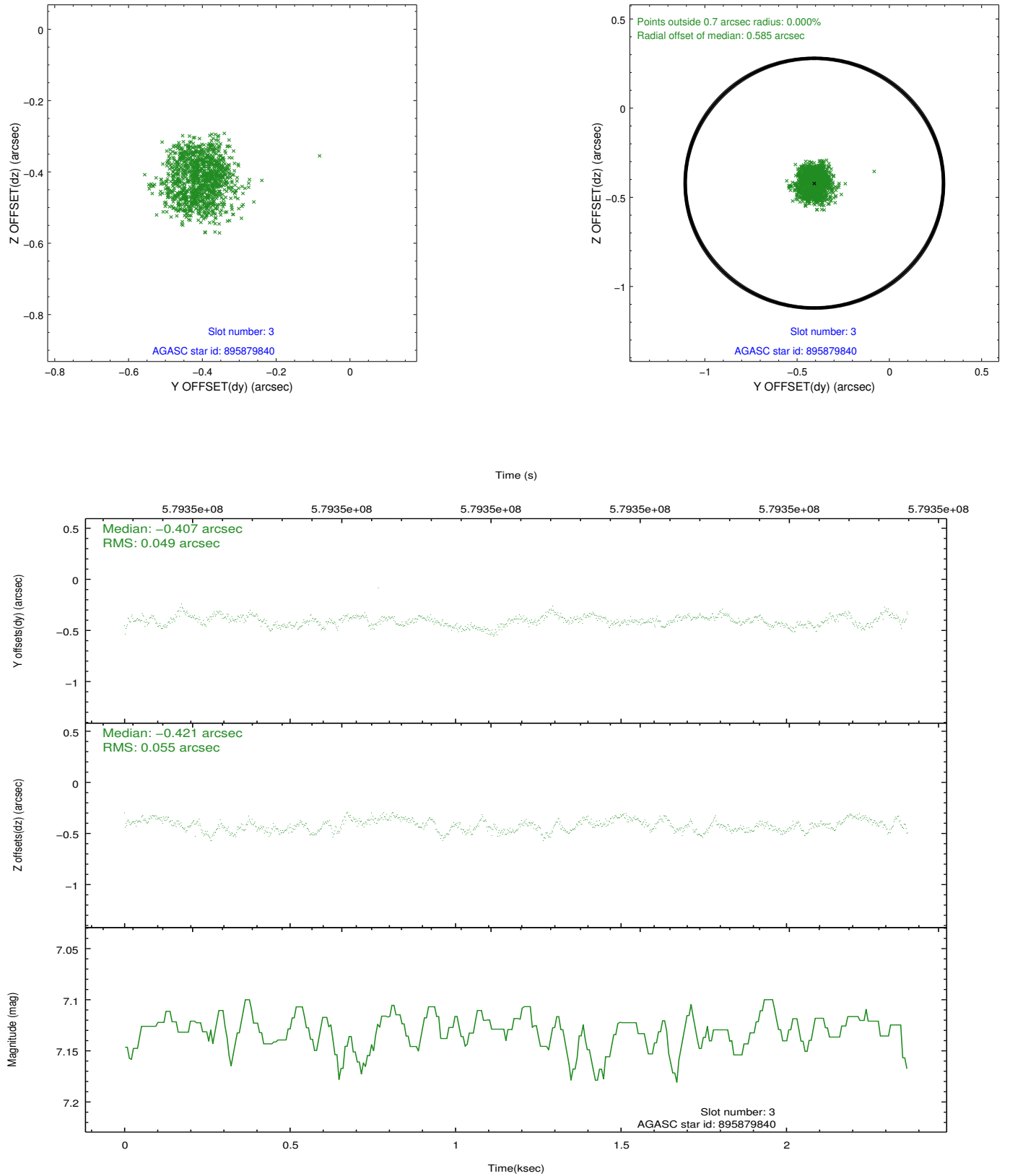


Slot Statistics

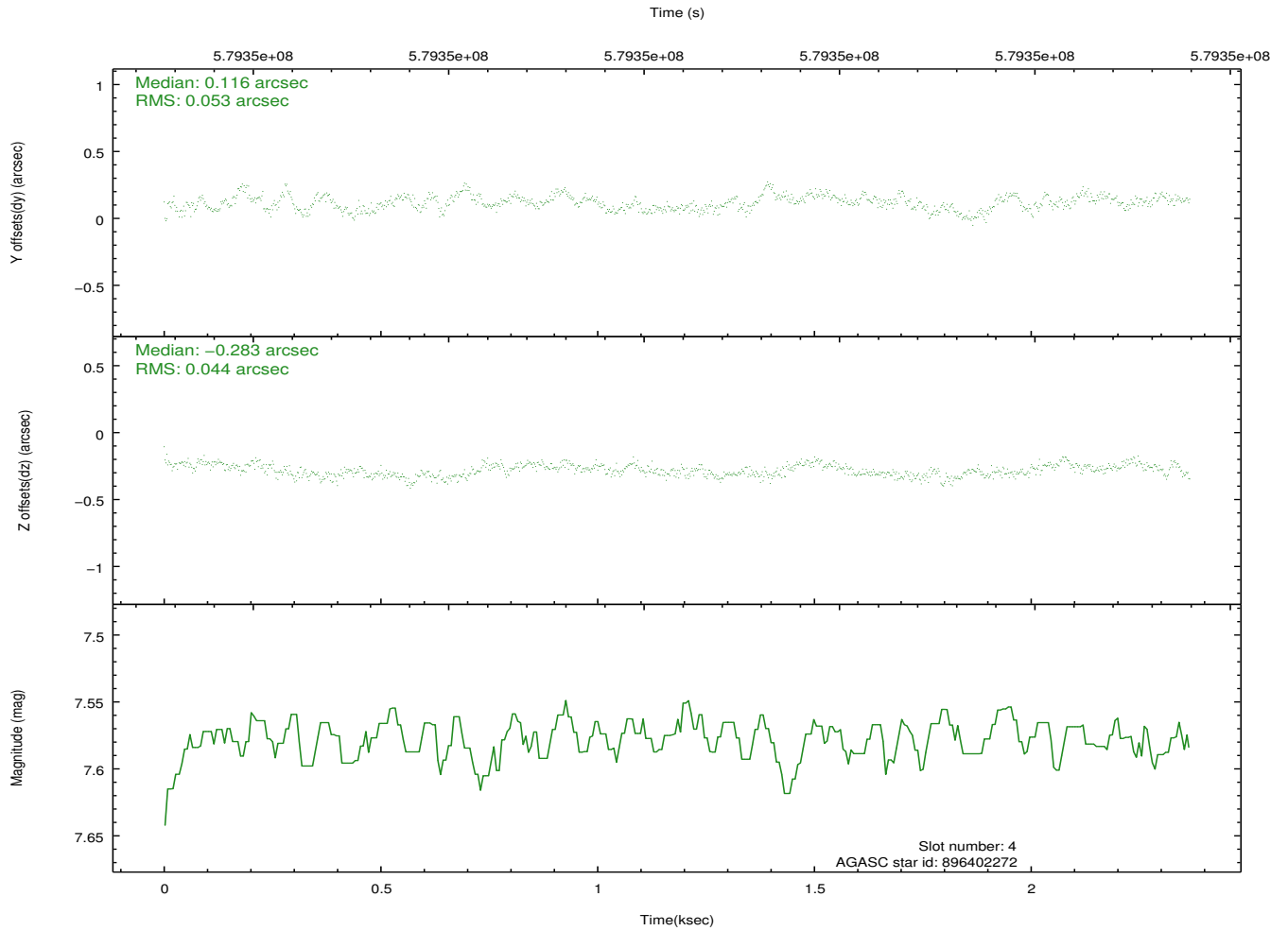
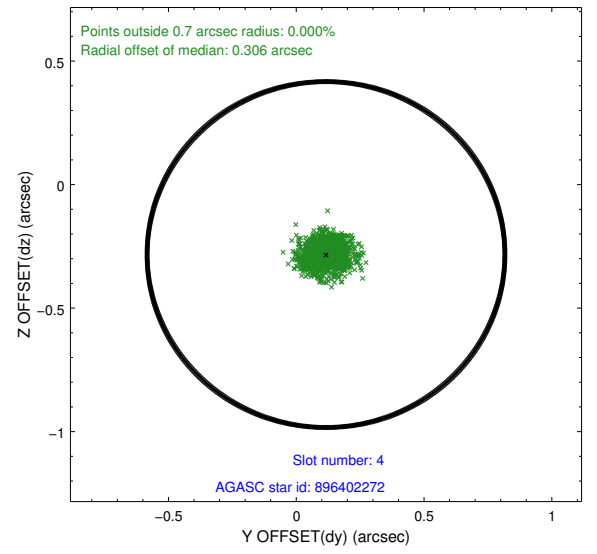
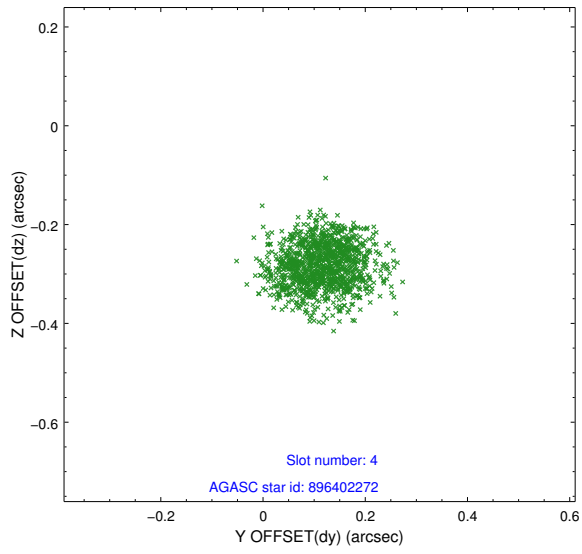
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	577	0.201	-0.028	0.007	0.013	0.000000	0.000000	928.90	-839.41
1	FID		ACIS-I-2	7.15	578	-0.143	-0.054	0.013	0.021	0.000000	0.000000	-764.01	-847.31
2	FID		ACIS-I-5	7.24	578	-0.150	0.155	0.008	0.016	0.000000	0.000000	-1821.02	1056.78
3	GUIDE	used	895879840	7.13	1155	-0.407	-0.421	0.080	0.120	265.218397	-27.395778	1729.10	1957.75
4	GUIDE	used	896402272	7.58	1154	0.116	-0.283	0.074	0.116	265.637294	-28.313189	-1343.25	161.38
5	GUIDE	used	896532680	8.72	1154	0.135	0.141	0.099	0.165	266.342632	-28.496299	-1685.10	-2143.75
6	GUIDE	used	896534664	8.18	1155	-0.249	0.295	0.082	0.132	266.405570	-28.407461	-1341.64	-2299.02
7	GUIDE	used	896538696	6.79	1154	0.405	0.275	0.067	0.108	266.298470	-28.325572	-1095.28	-1922.61

2.4 Star Slots

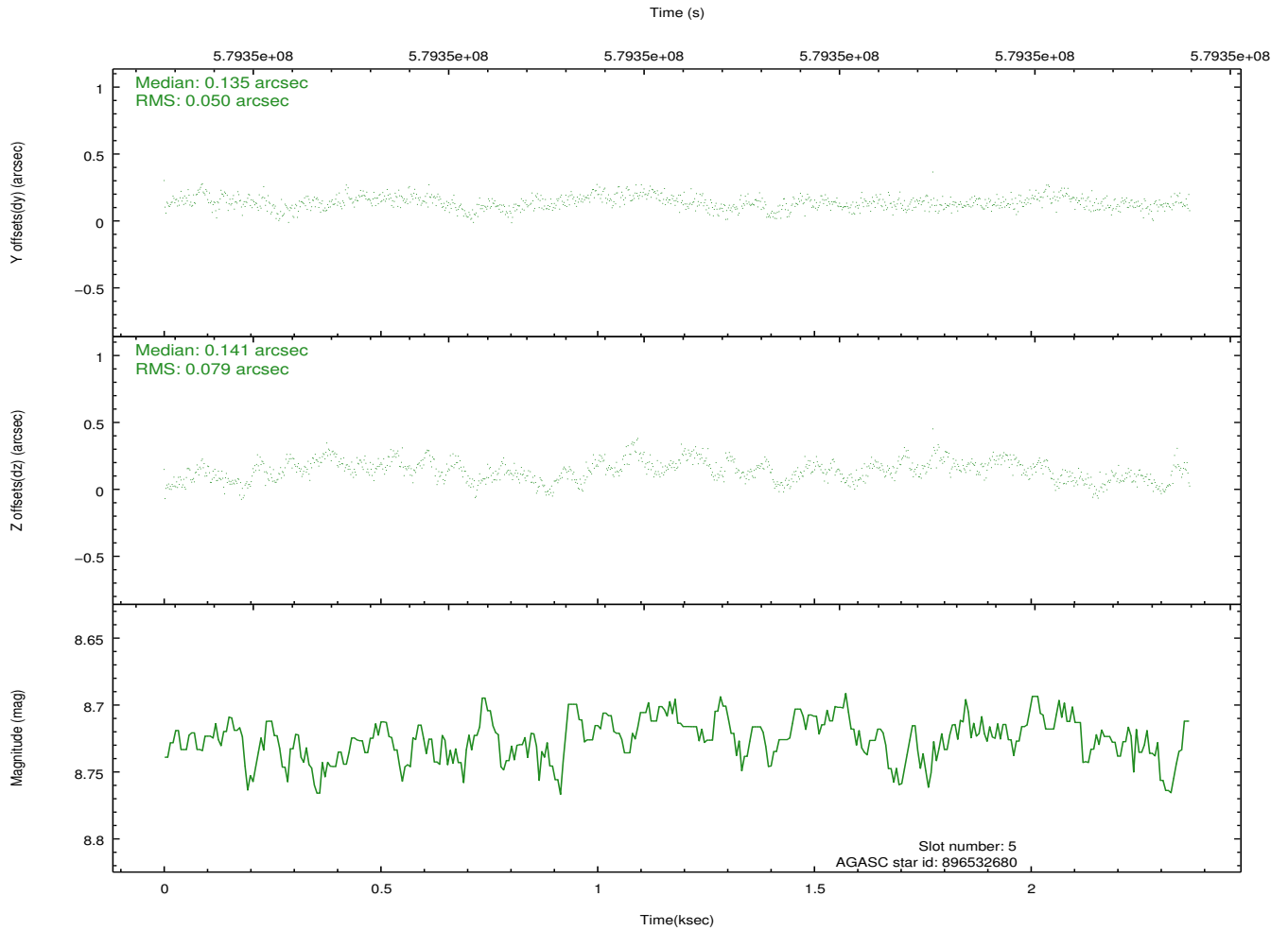
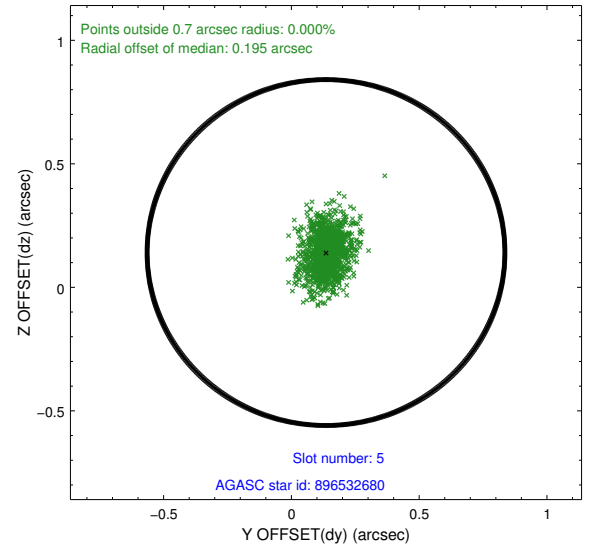
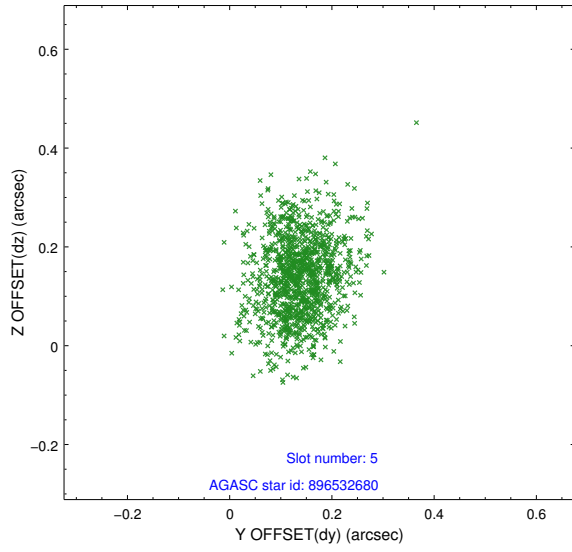
2.4.1 Slot 3



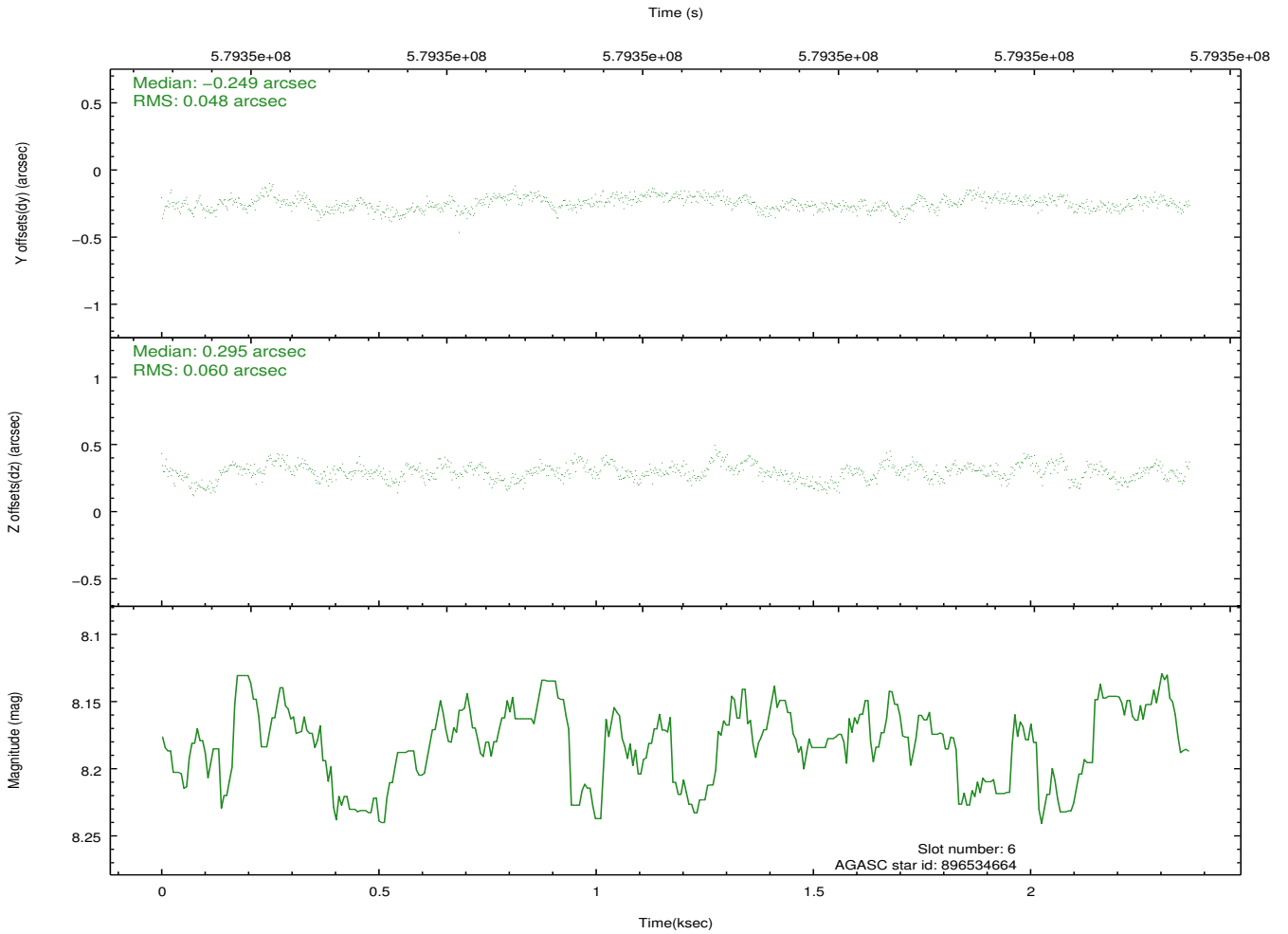
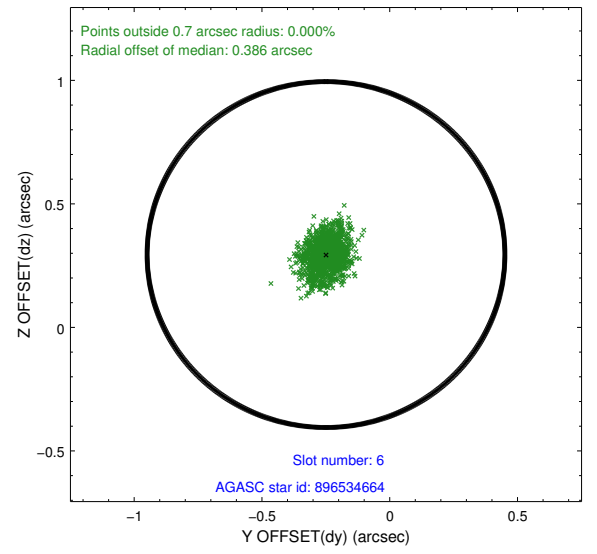
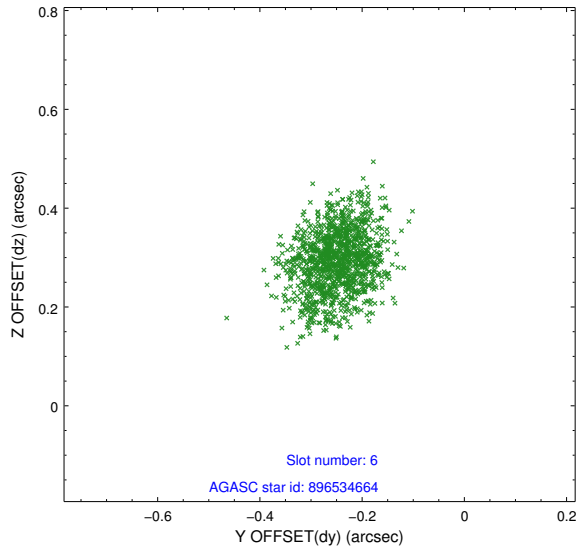
2.4.2 Slot 4



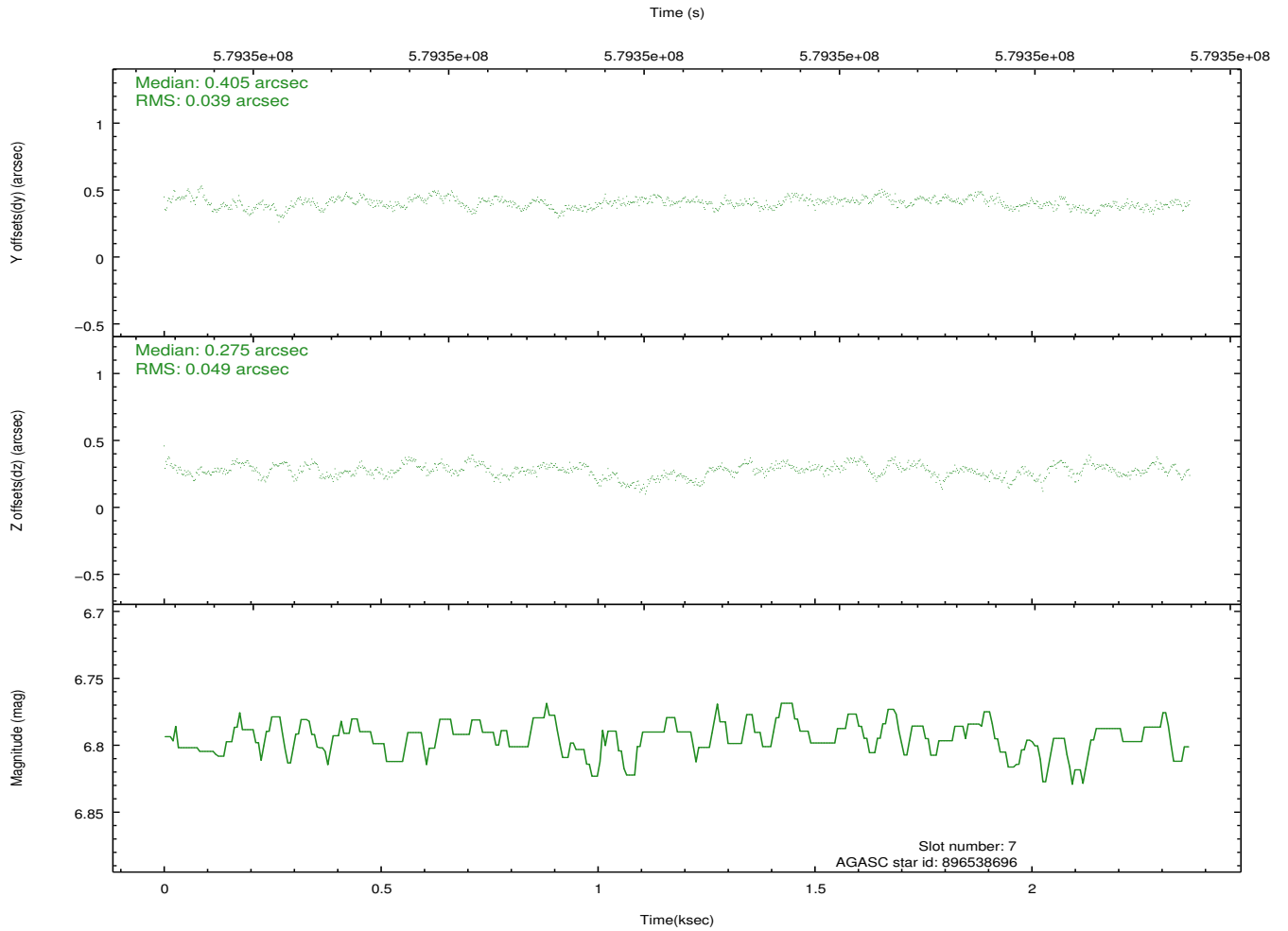
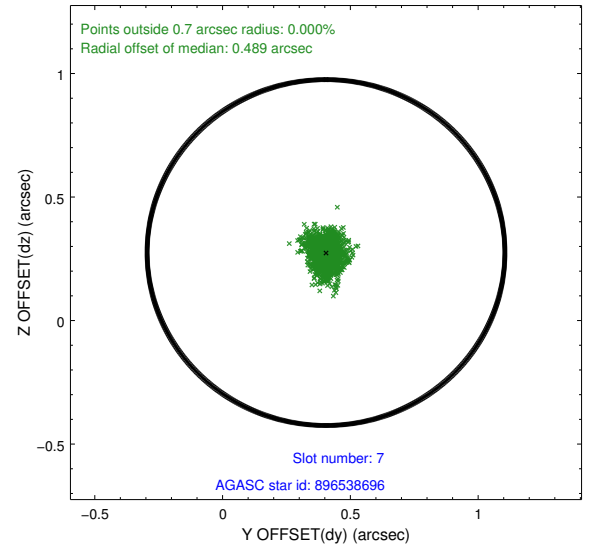
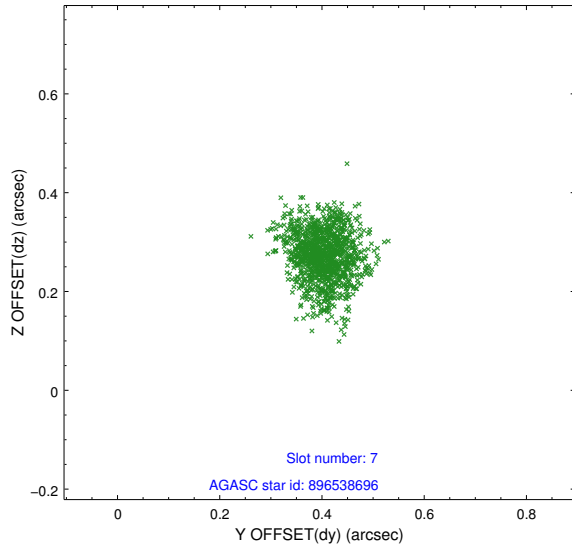
2.4.3 Slot 5



2.4.4 Slot 6

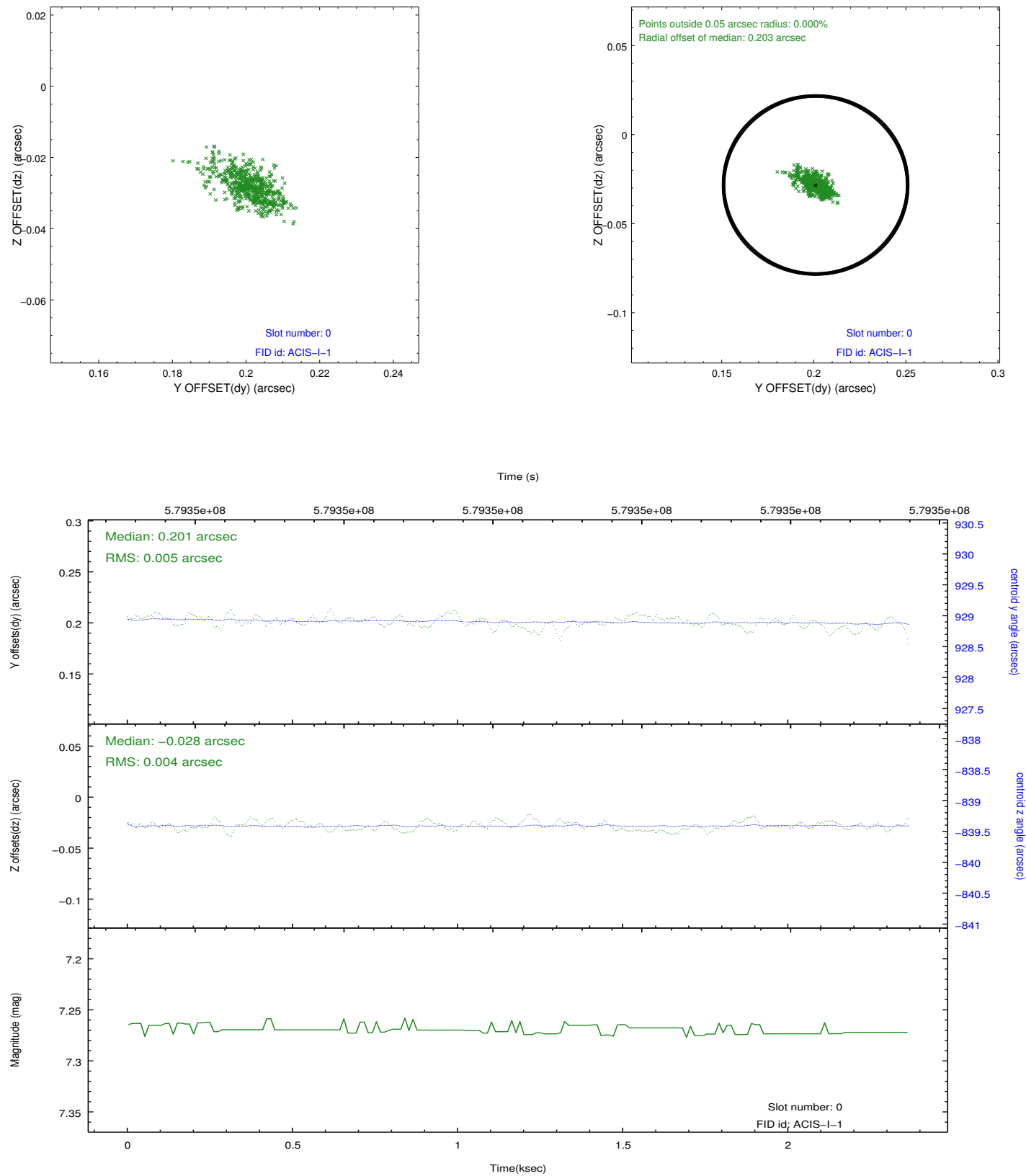


2.4.5 Slot 7

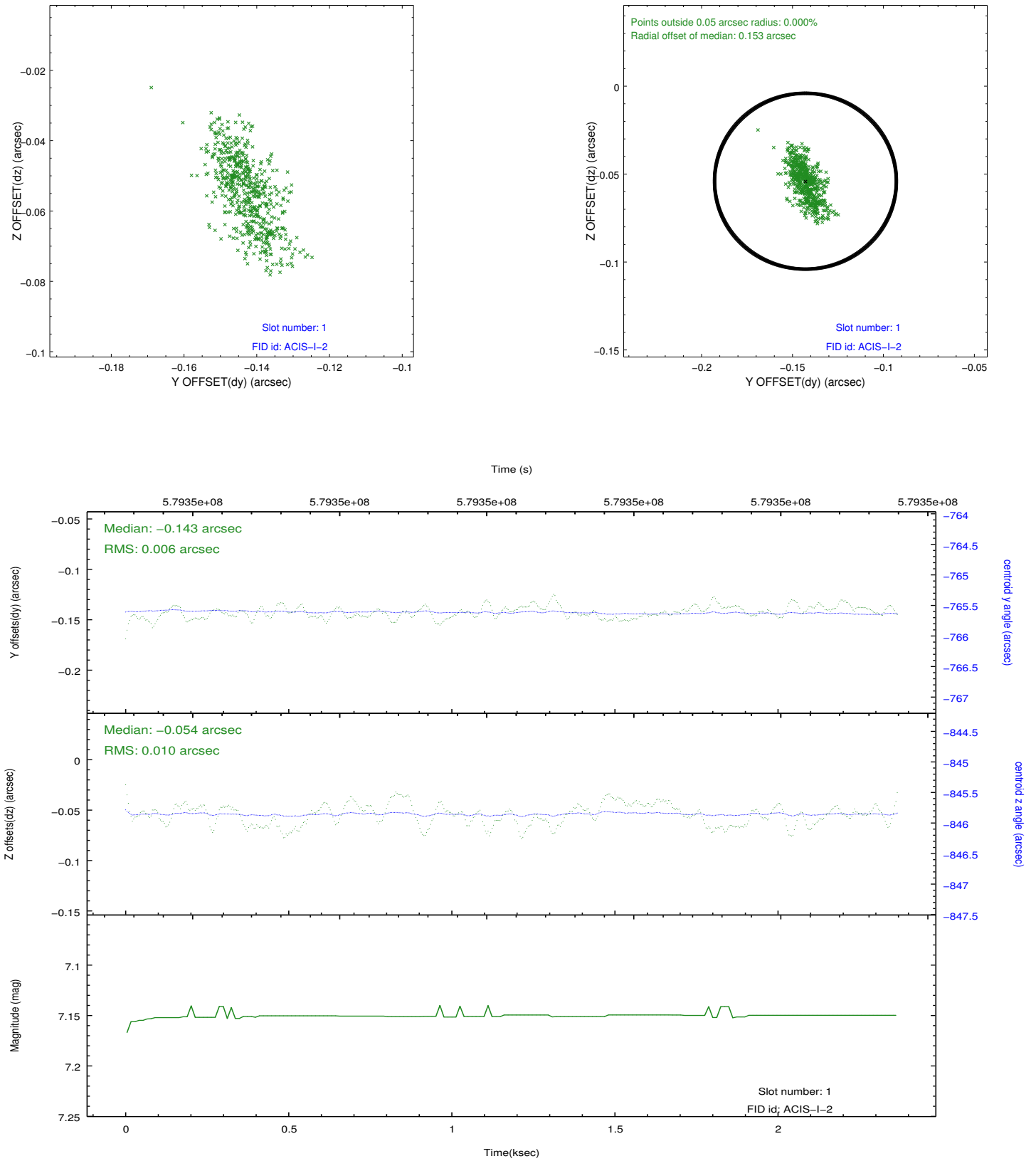


2.5 FID Slots

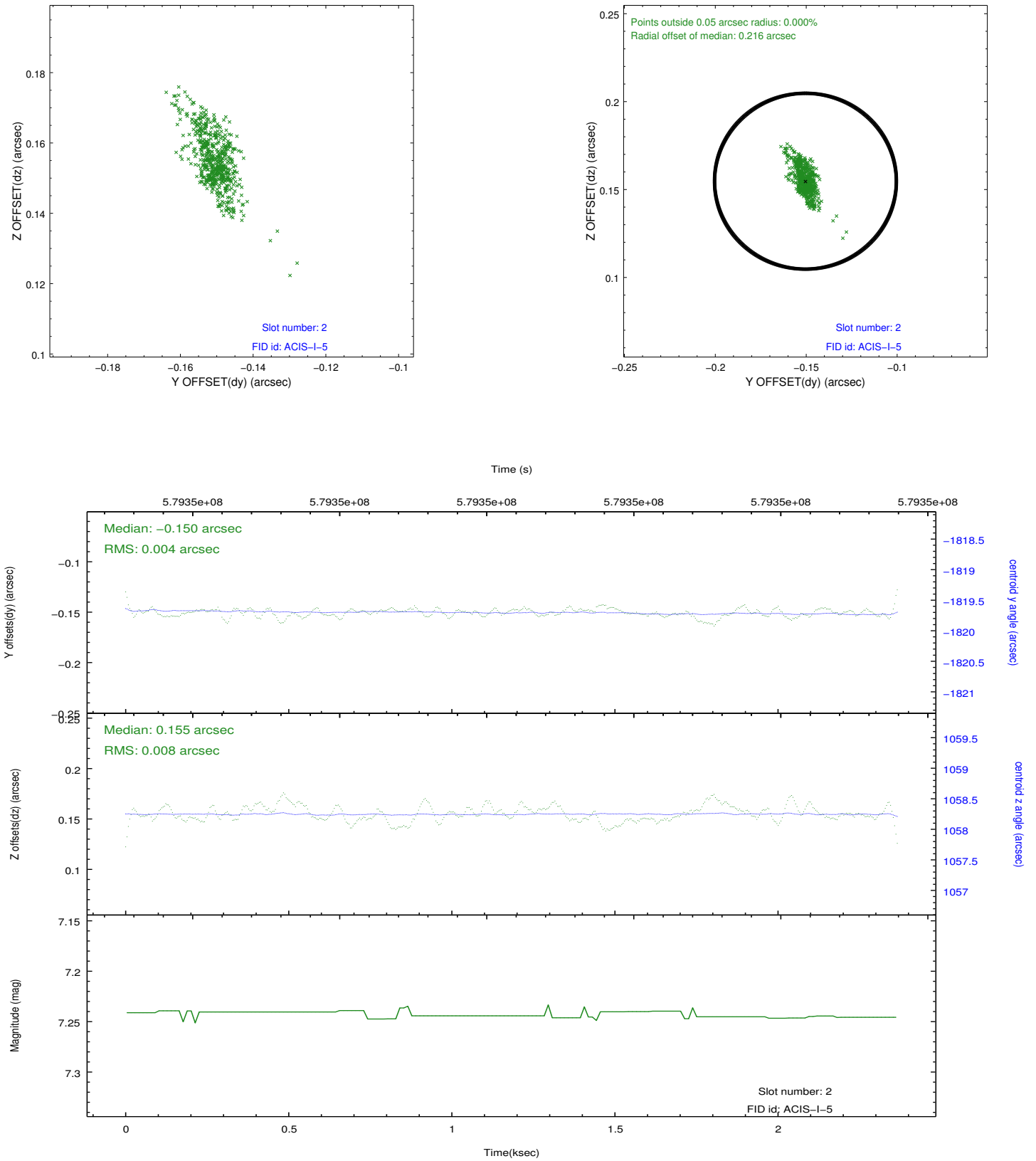
2.5.1 Slot 0



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)	2016.05.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9557659620047

A.2 Comments