

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18315 - L2 Version 1
Chandra X-Ray Center

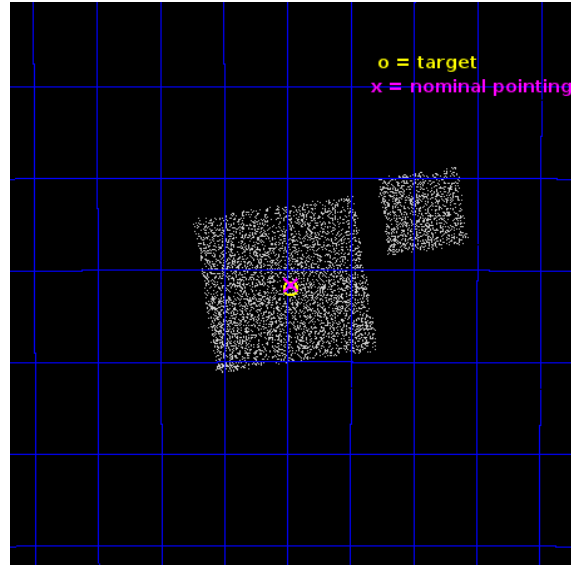
L2 Processing Date : May 11 2016

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1 Front

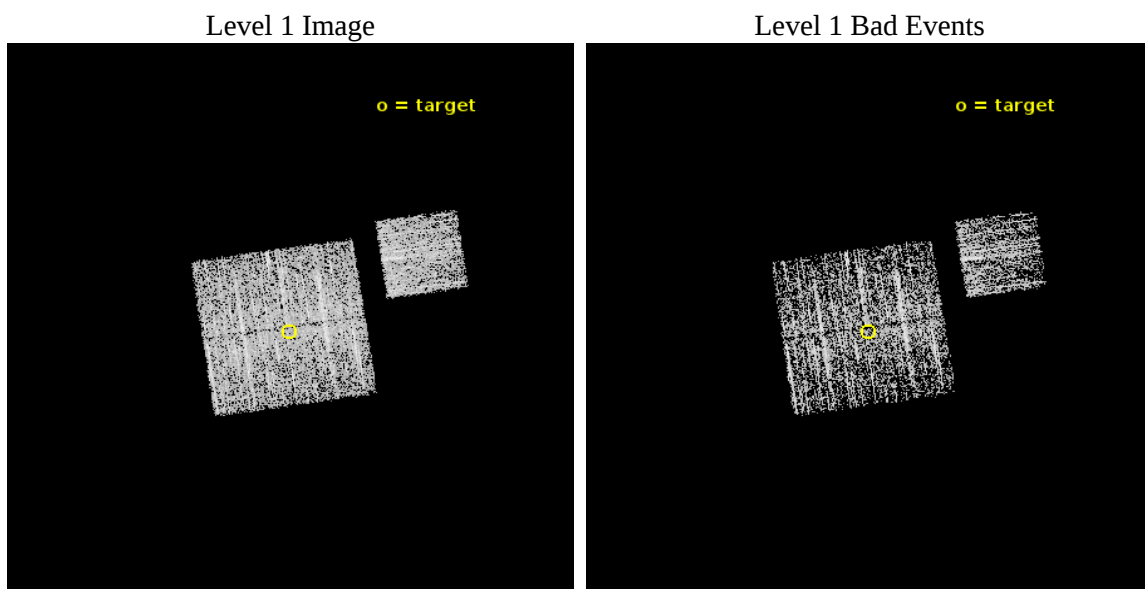
seq_num	300346	Sequence number
obs_id	18315	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.36831	Observer's specified target RA [deg]
dec_targ	-28.03393	Observer's specified target Dec [deg]
ra_nom	265.36670594565	Nominal RA [deg]
dec_nom	-28.026770937782	Nominal Dec [deg]
roll_nom	81.660789523762	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.950517416	Sum of GTIs [s]
livetime	1930.3945839561	Livetime [s]
ontime0	1955.8273974657	Sum of GTIs [s]
ontime1	1955.8684374094	Sum of GTIs [s]
ontime2	1955.9094774723	Sum of GTIs [s]
ontime3	1955.950517416	Sum of GTIs [s]
ontime6	1955.7863574028	Sum of GTIs [s]
l2events	6704	Number of level 2 events



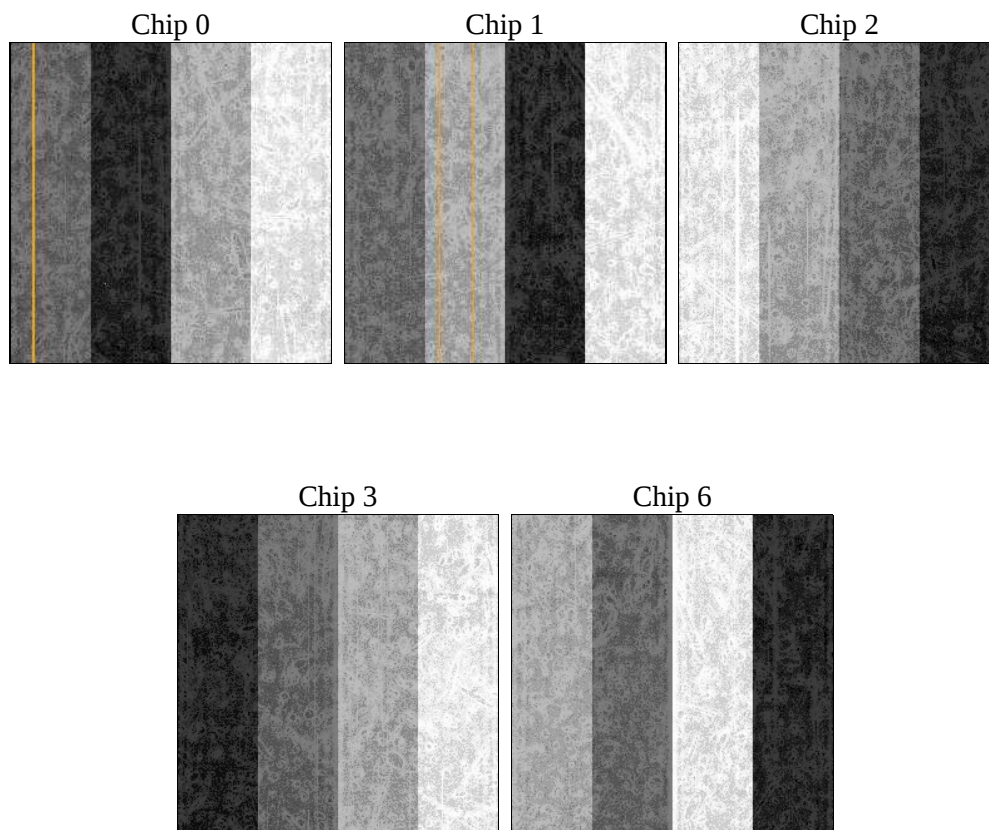
2 OBI

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	1955.950517416	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.8273974657	Sum of GTIs [s]
date	2016-05-11T15:42:48	Date and time of file creation	ontime1	1955.8684374094	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.9094774723	Sum of GTIs [s]
			ontime3	1955.950517416	Sum of GTIs [s]
			ontime6	1955.7863574028	Sum of GTIs [s]
			l1events	61514	Number of level 1 events

2.1.4 Events

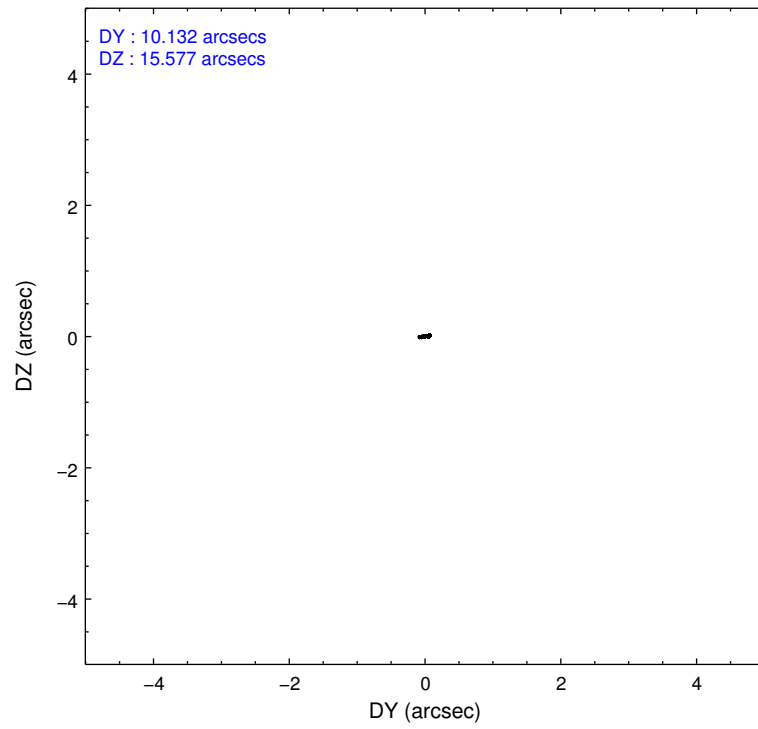
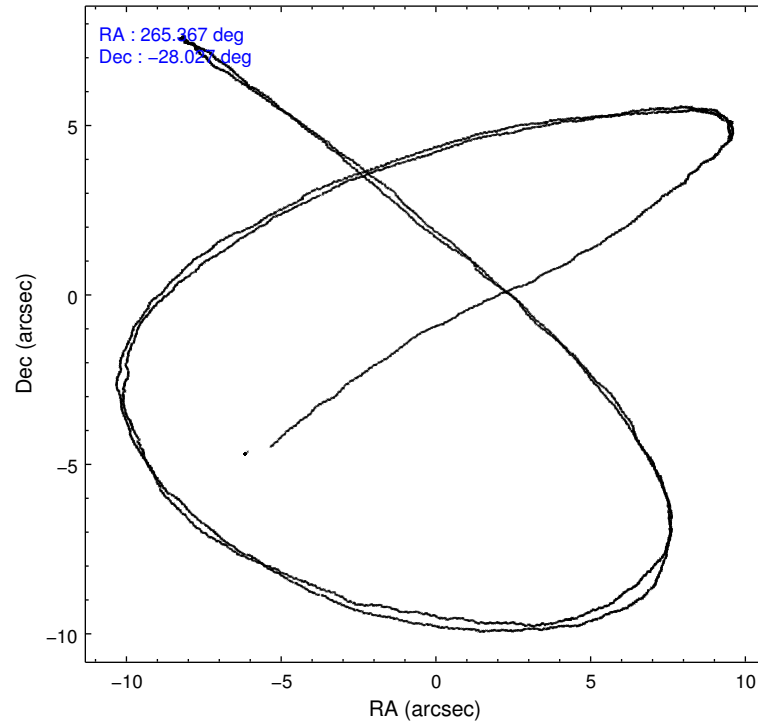
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11846	12520	12707	11775	12666
rejected events	10268	10753	11256	10249	11124
rejected %	86%	85%	88%	87%	87%

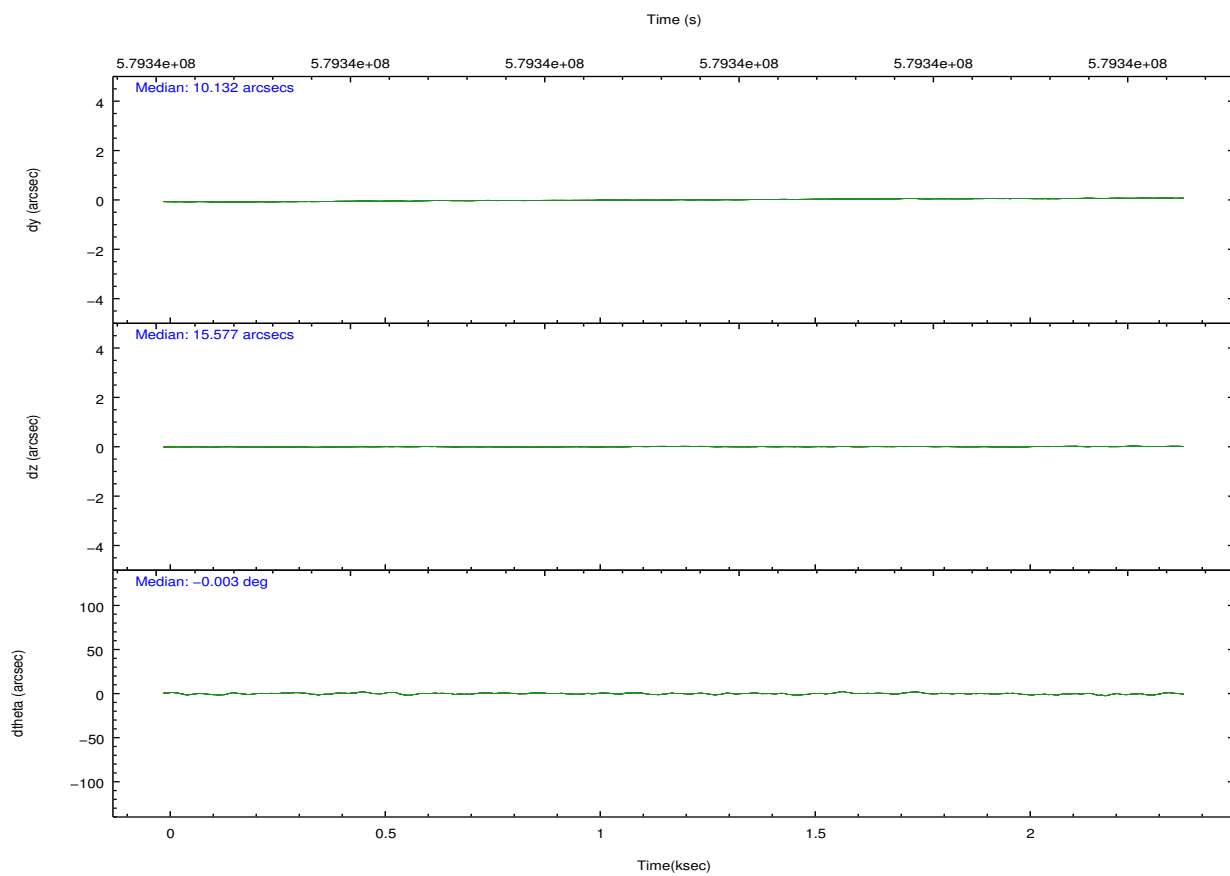
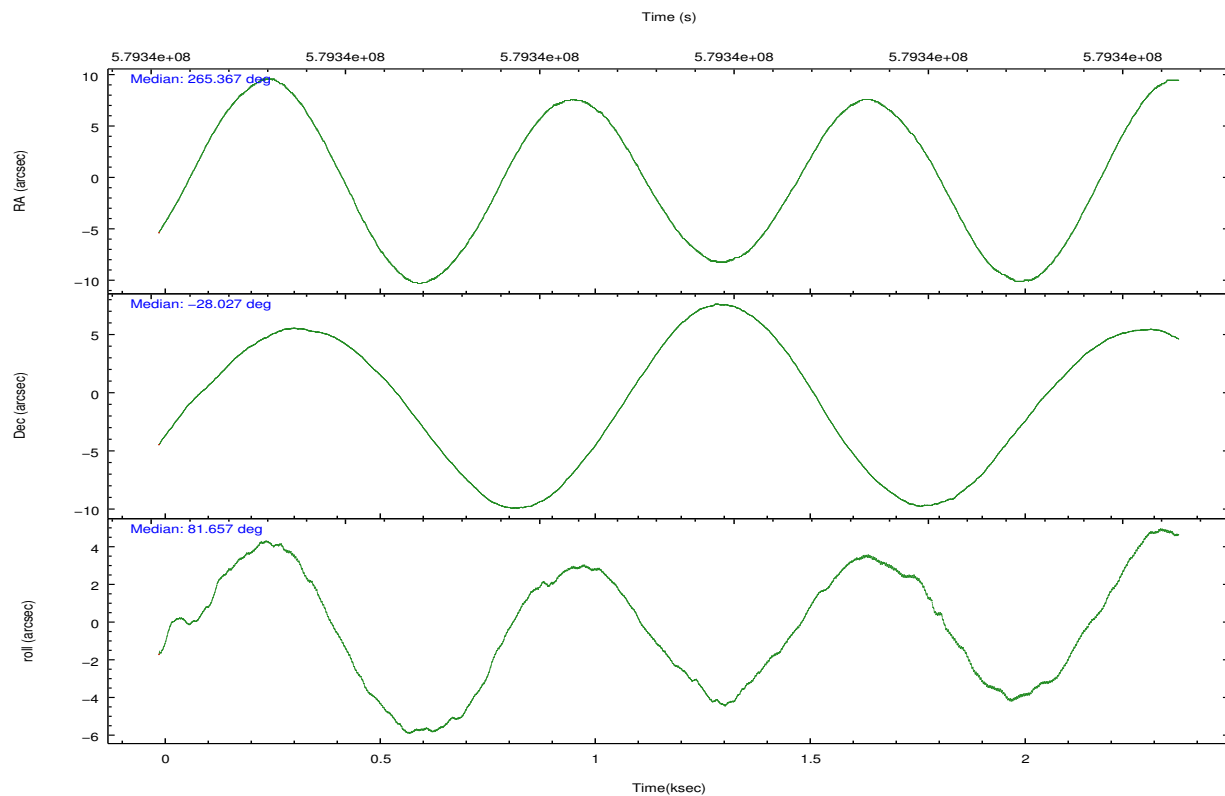
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	628	678	583	650	593
	5%	5%	4%	5%	4%
grade 1 events	10	4	10	7	5
	0%	0%	0%	0%	0%
grade 2 events	361	439	349	295	351
	3%	3%	2%	2%	2%
grade 3 events	151	163	136	135	138
	1%	1%	1%	1%	1%
grade 4 events	142	147	133	150	149
	1%	1%	1%	1%	1%
grade 5 events	559	572	485	638	540
	4%	4%	3%	5%	4%
grade 6 events	298	347	255	299	314
	2%	2%	2%	2%	2%
grade 7 events	9697	10170	10756	9601	10576
	81%	81%	84%	81%	83%

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	265.378267	265.3667059456545	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.052556	-28.02677093778158	CCD I3 on	Y	Y
[deg] Pointing Roll	81.457522	81.66078952376171	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)	579339826.184000	579339450.17199	CCD S5 on	N	N
Observation start date	2016-05-11T07:42:38	2016-05-11T07:37:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579342006.184000	579342139.77214	On-chip summing requested	N	N
Observation end date	2016-05-11T08:18:58	2016-05-11T08:22:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



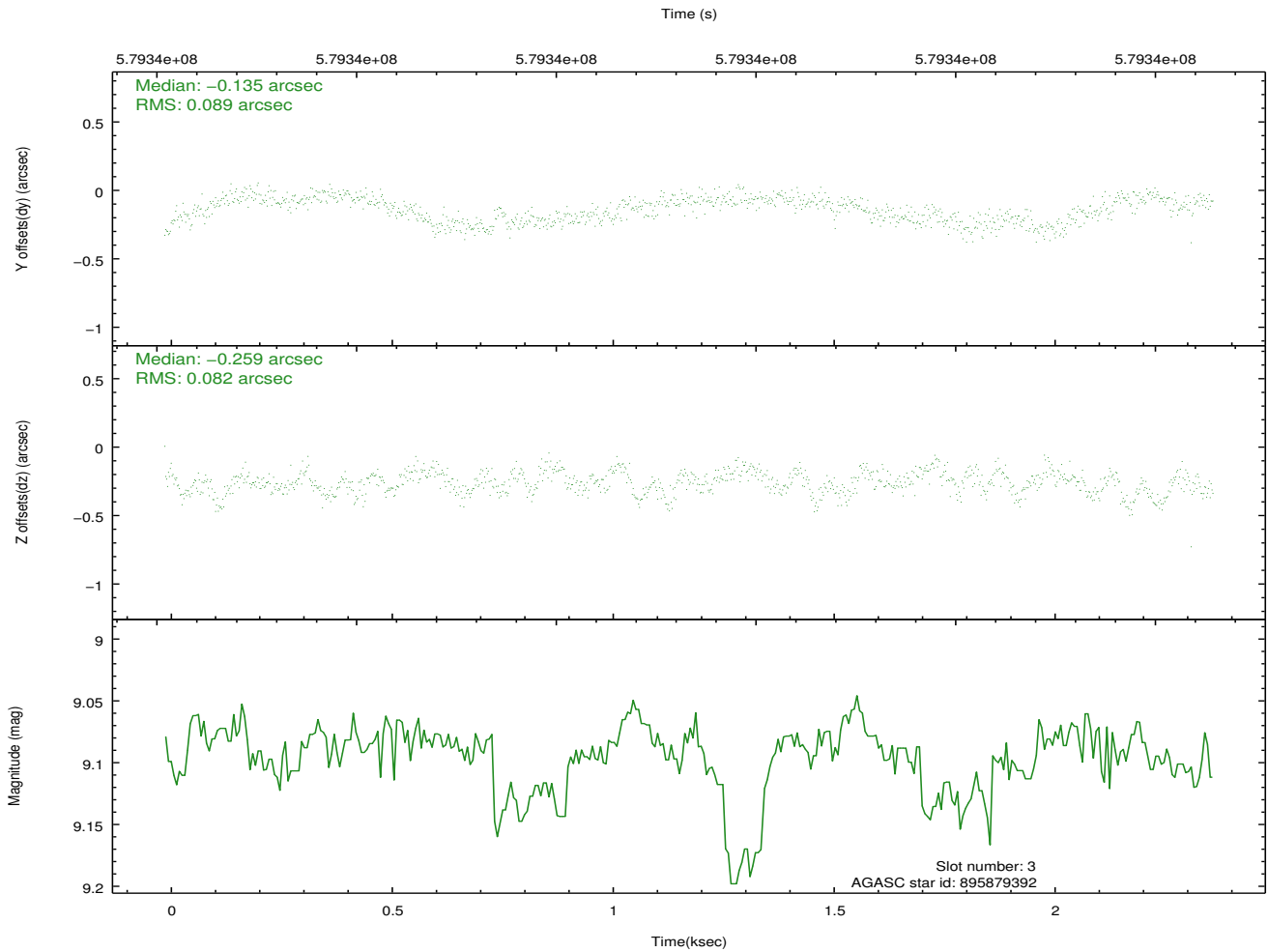
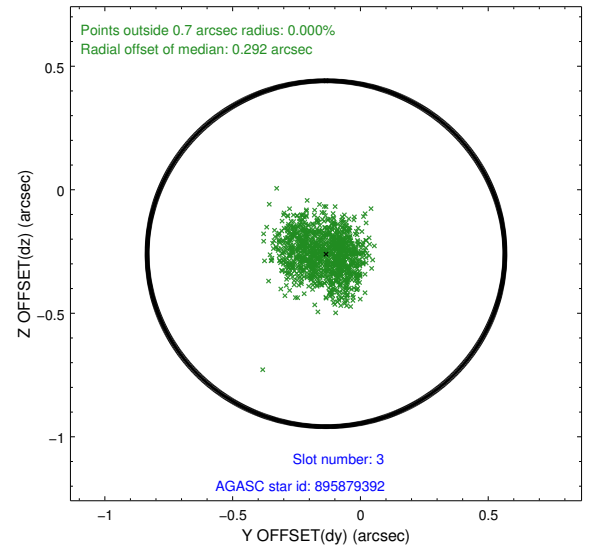
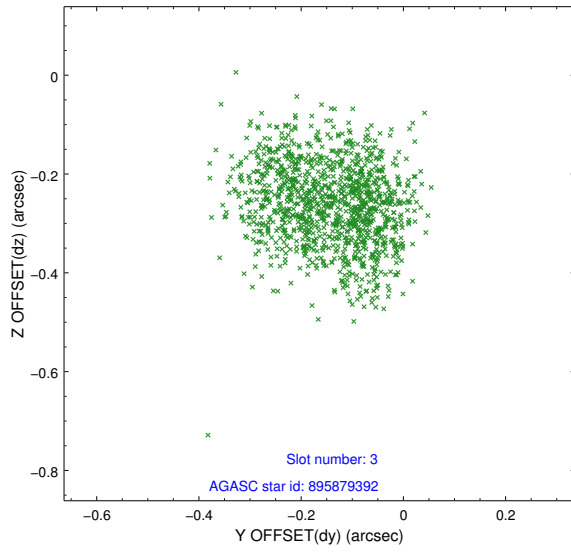


Slot Statistics

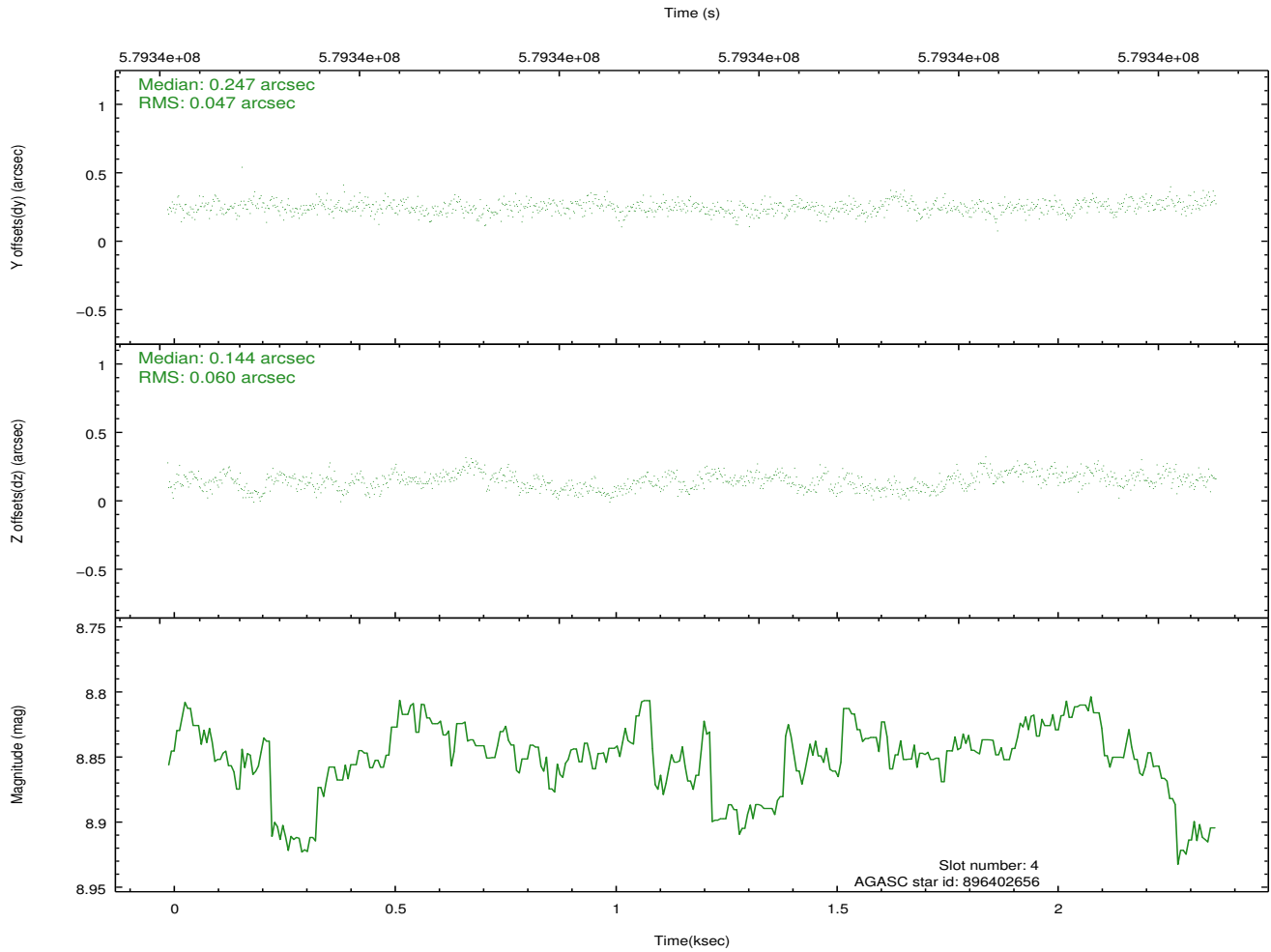
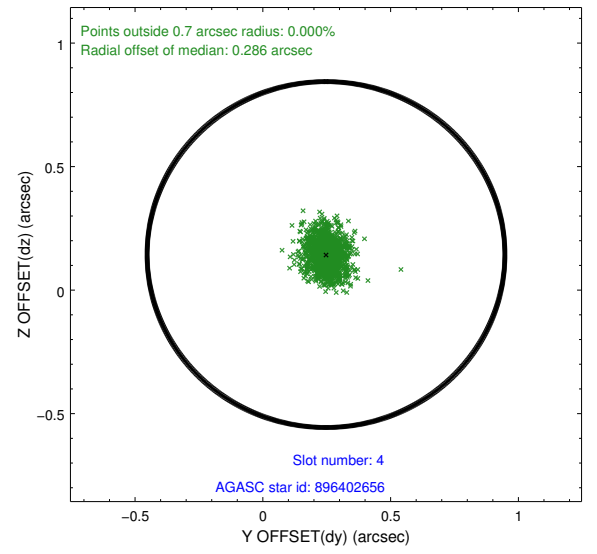
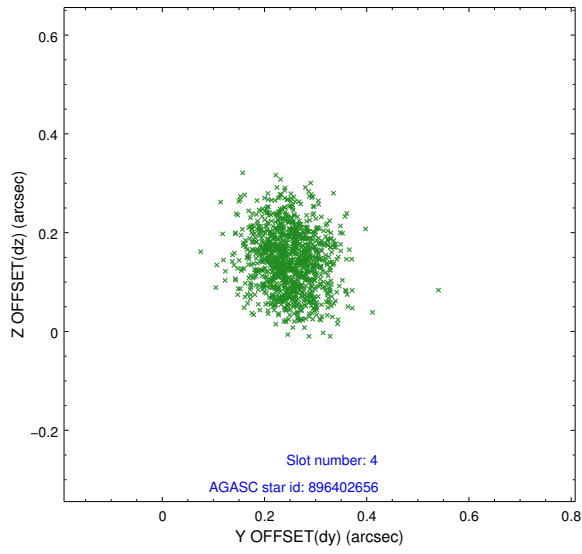
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-4	7.17	579	0.245	0.013	0.008	0.015	0.000000	0.000000	2149.64	1060.74
1	FID		ACIS-I-5	7.24	579	-0.391	-0.003	0.005	0.009	0.000000	0.000000	-1815.43	1060.16
2	FID		ACIS-I-6	7.25	579	0.046	0.057	0.009	0.015	0.000000	0.000000	392.05	1704.59
3	GUIDE	used	895879392	9.09	1157	-0.135	-0.259	0.131	0.196	264.792874	-27.441876	1891.15	2175.64
4	GUIDE	used	896402656	8.85	1157	0.247	0.144	0.081	0.129	265.739192	-28.230753	-464.54	-1225.37
5	GUIDE	used	896404568	7.83	1158	0.220	0.311	0.067	0.107	265.687293	-28.431080	-1204.07	-1170.65
6	GUIDE	used	896405616	7.83	1158	0.006	-0.063	0.105	0.172	264.752771	-28.412560	-1583.93	1765.40
7	GUIDE	used	895879840	7.14	1157	-0.337	-0.139	0.083	0.132	265.218397	-27.395778	2259.45	858.61

2.4 Star Slots

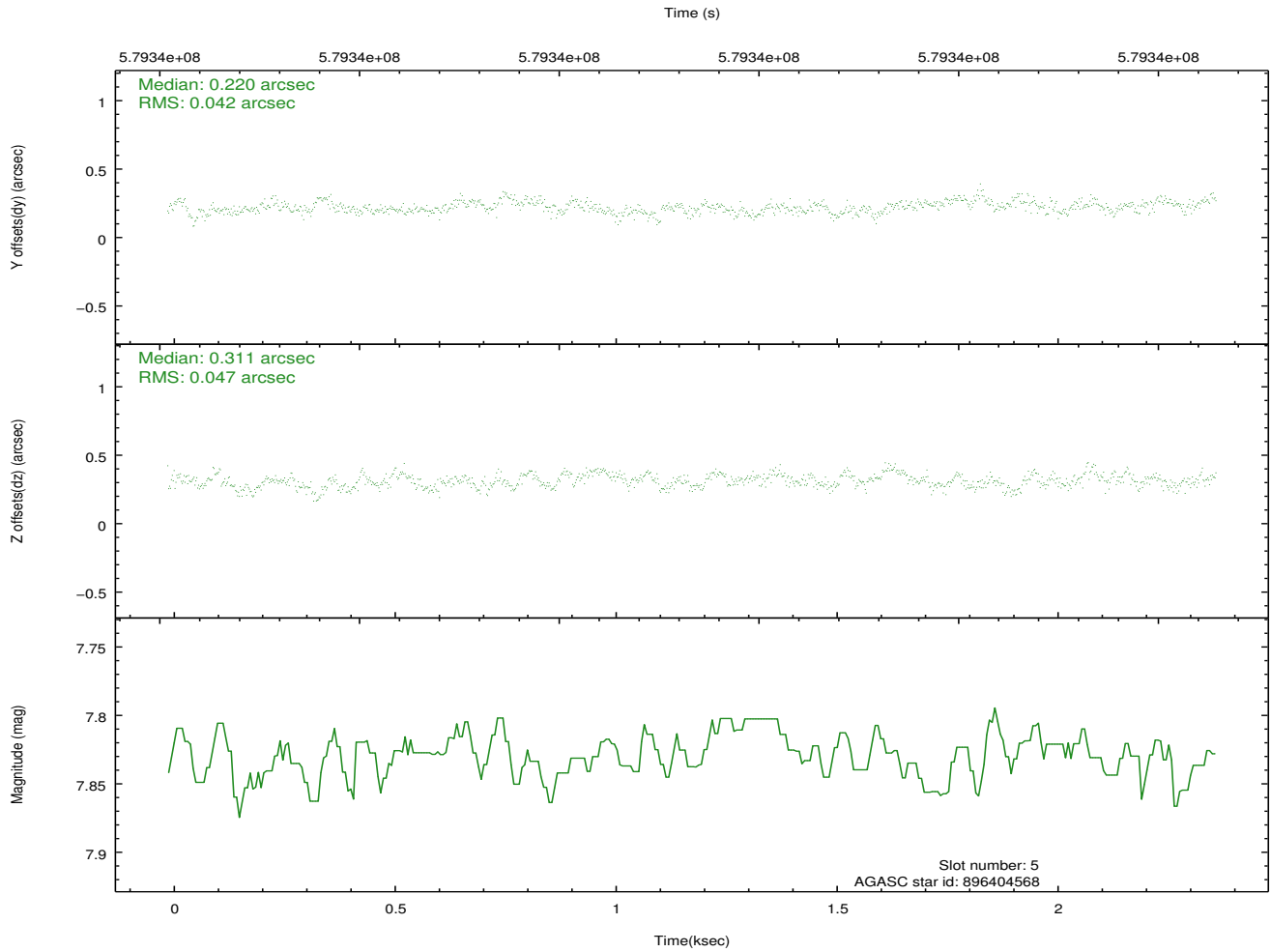
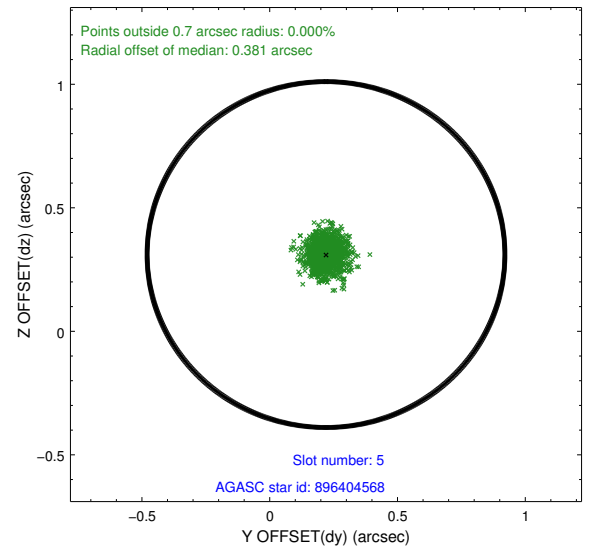
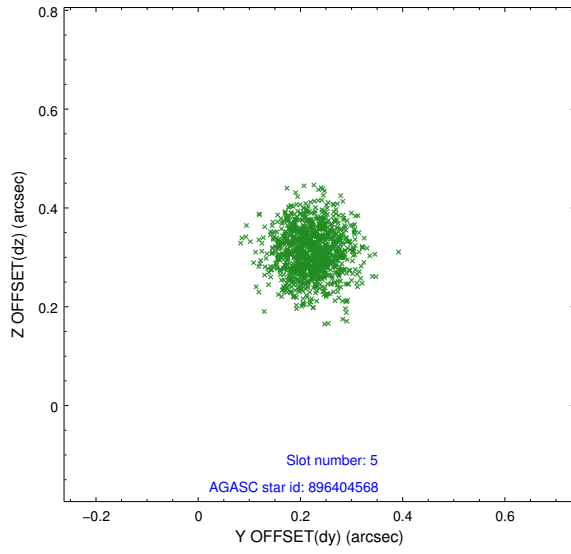
2.4.1 Slot 3



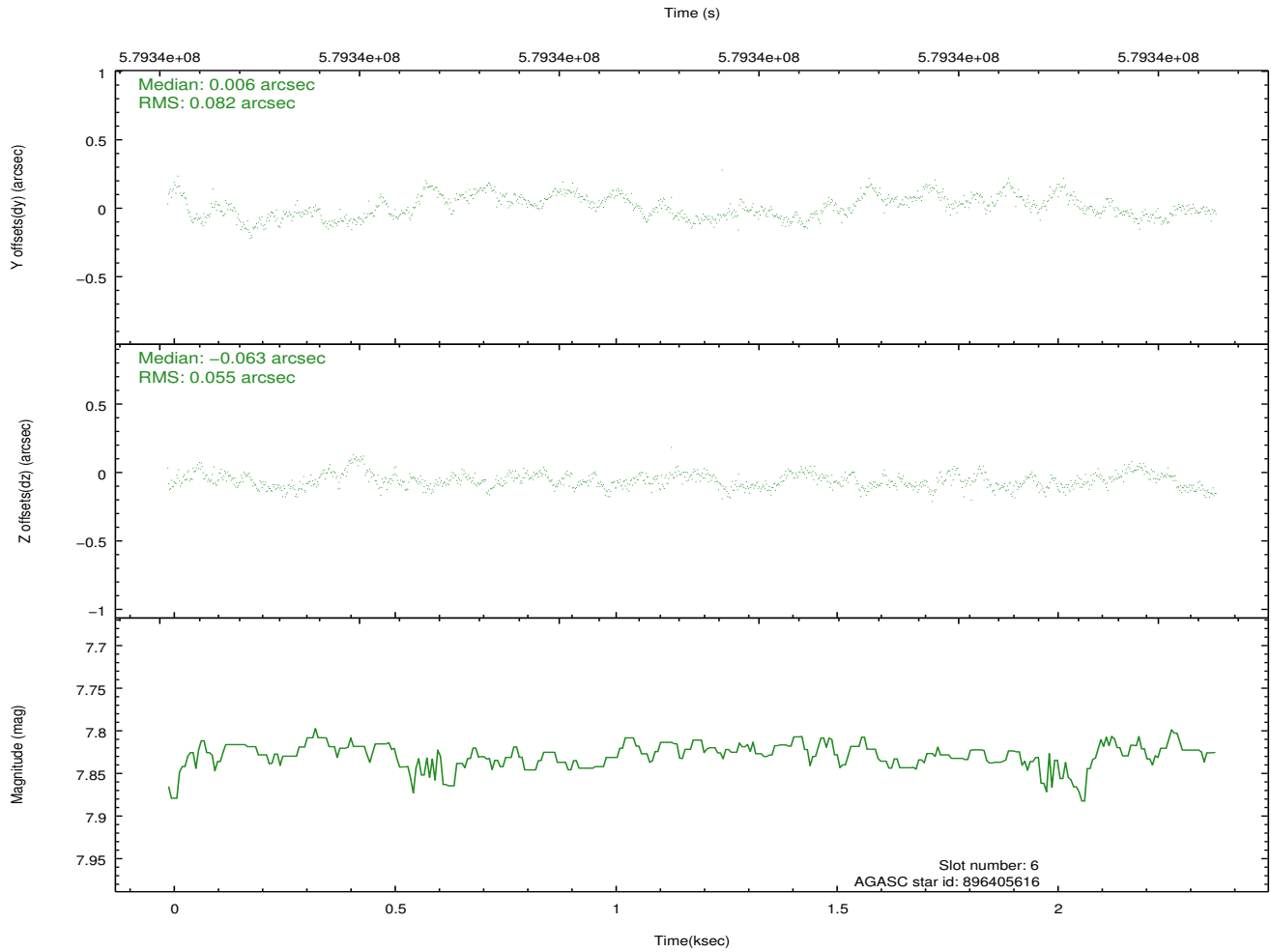
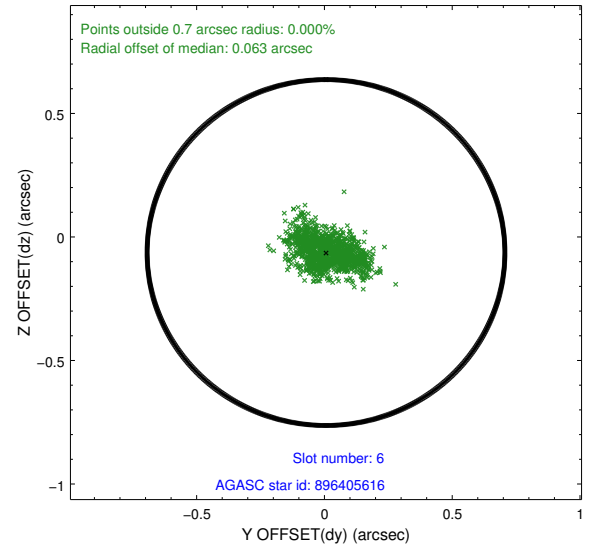
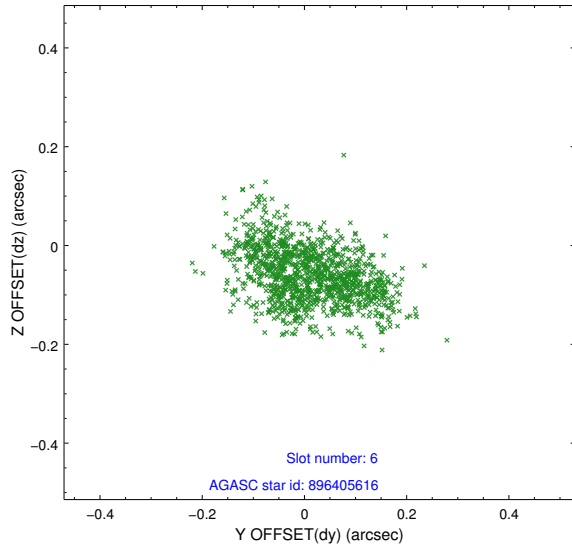
2.4.2 Slot 4



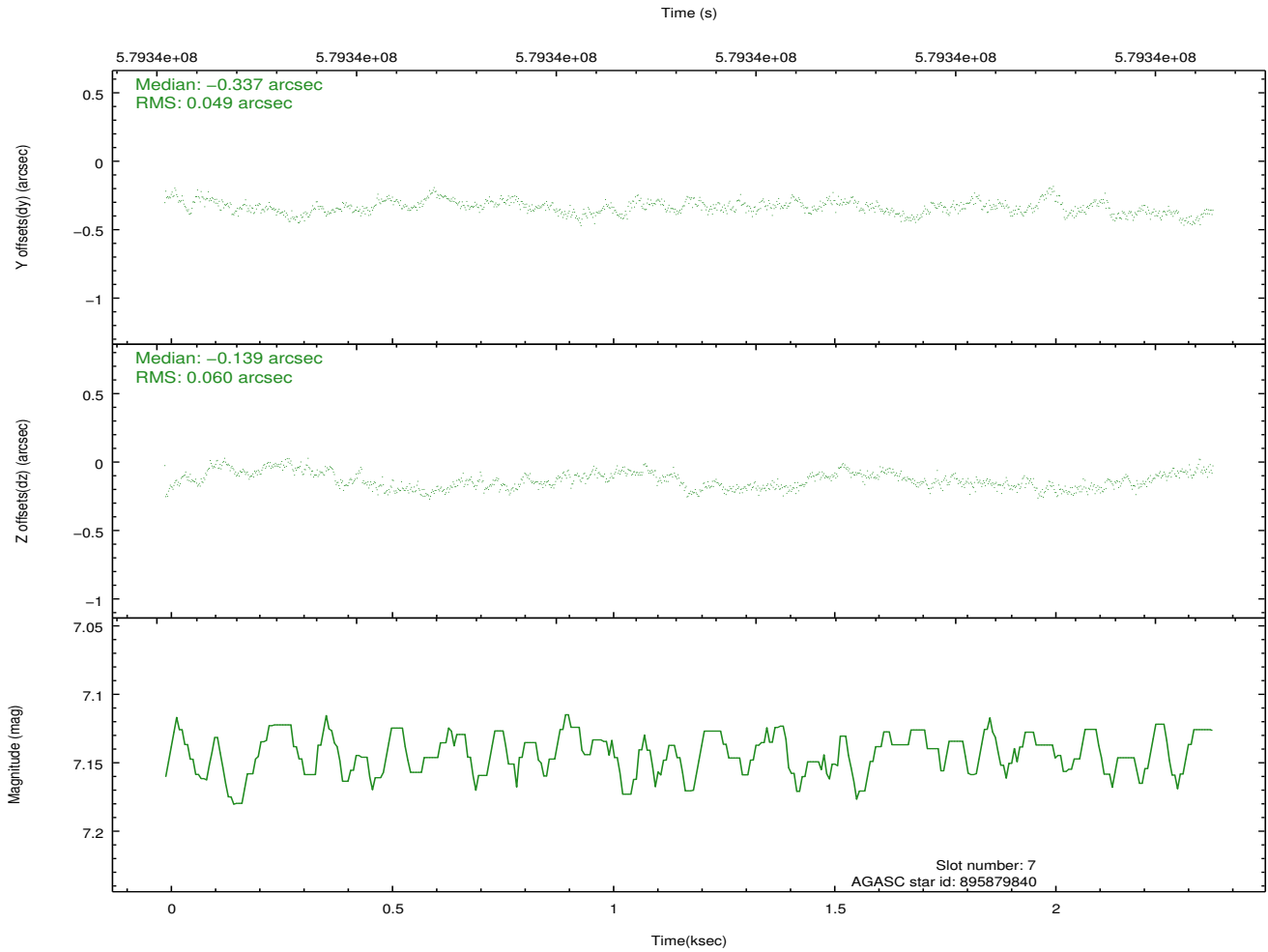
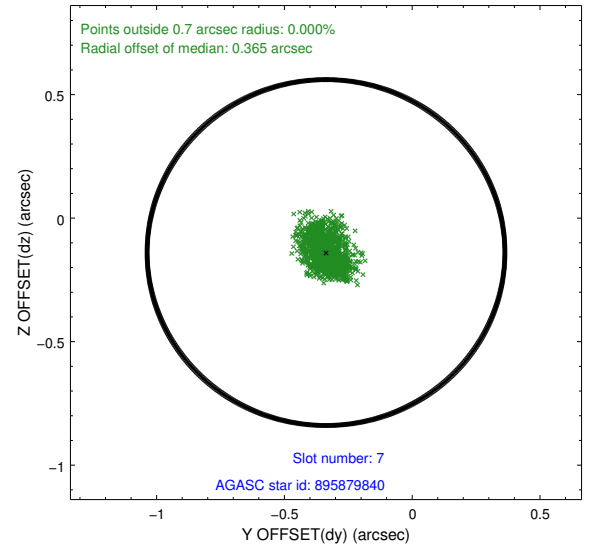
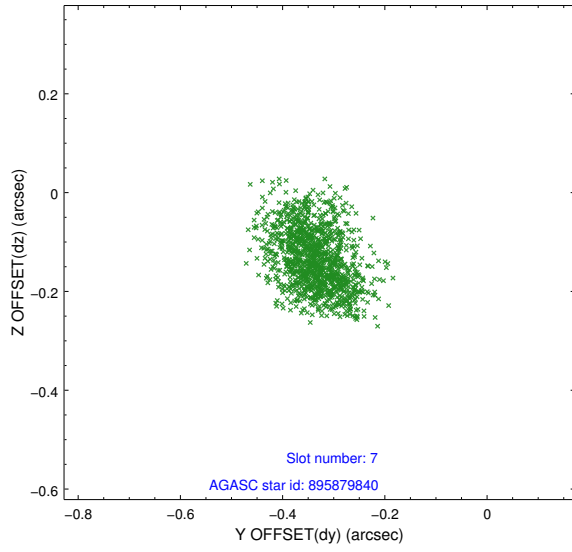
2.4.3 Slot 5



2.4.4 Slot 6

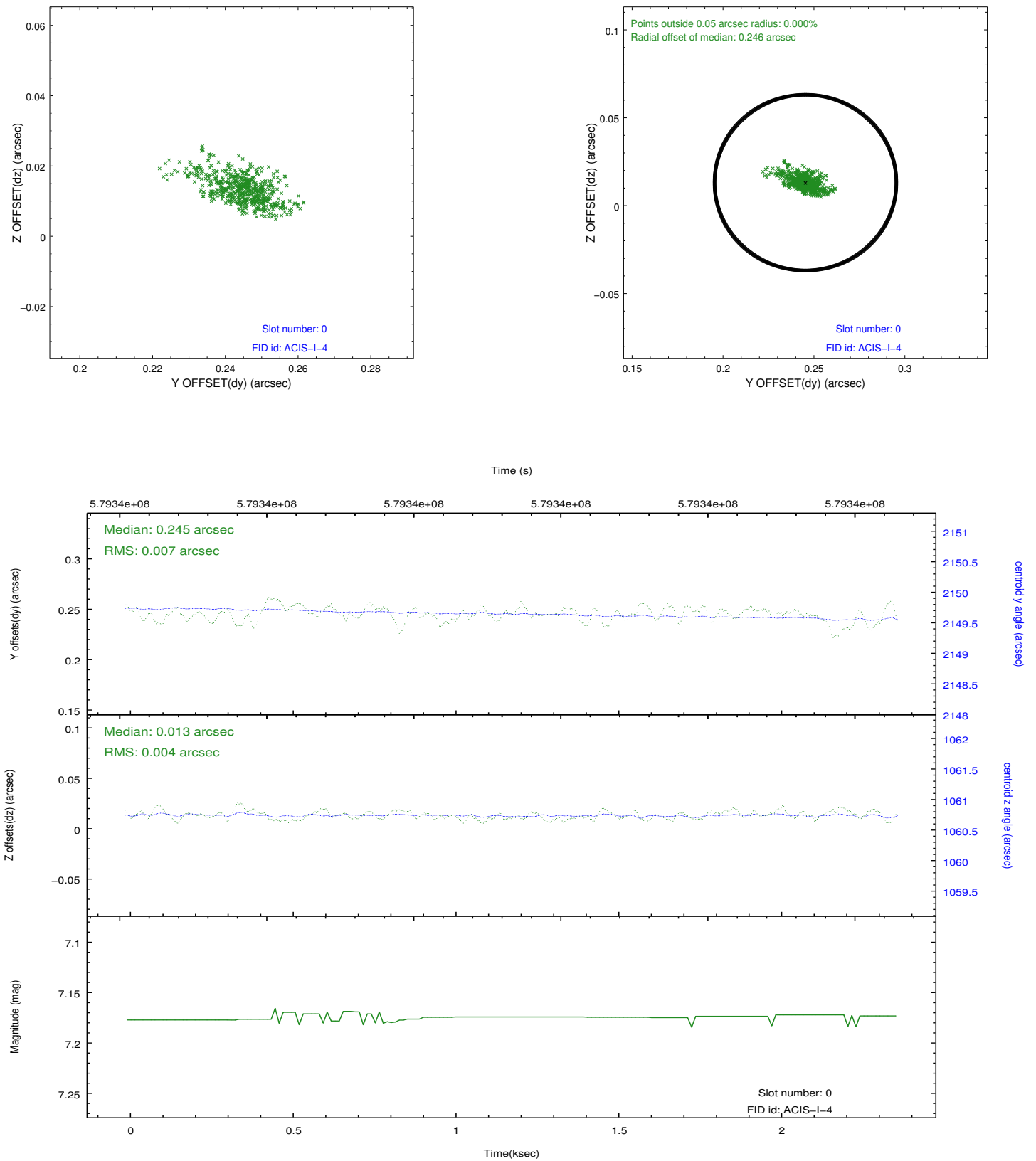


2.4.5 Slot 7

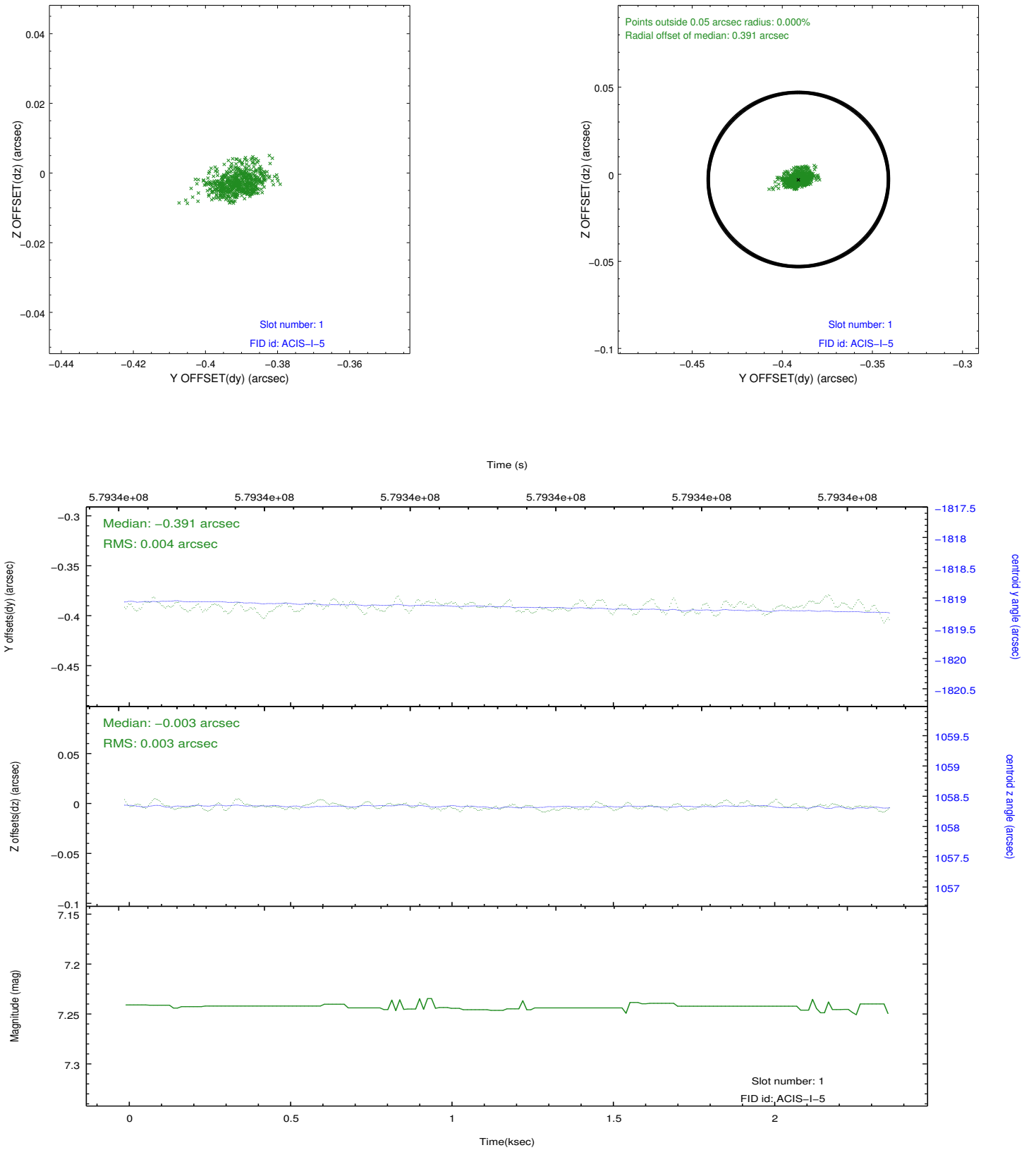


2.5 FID Slots

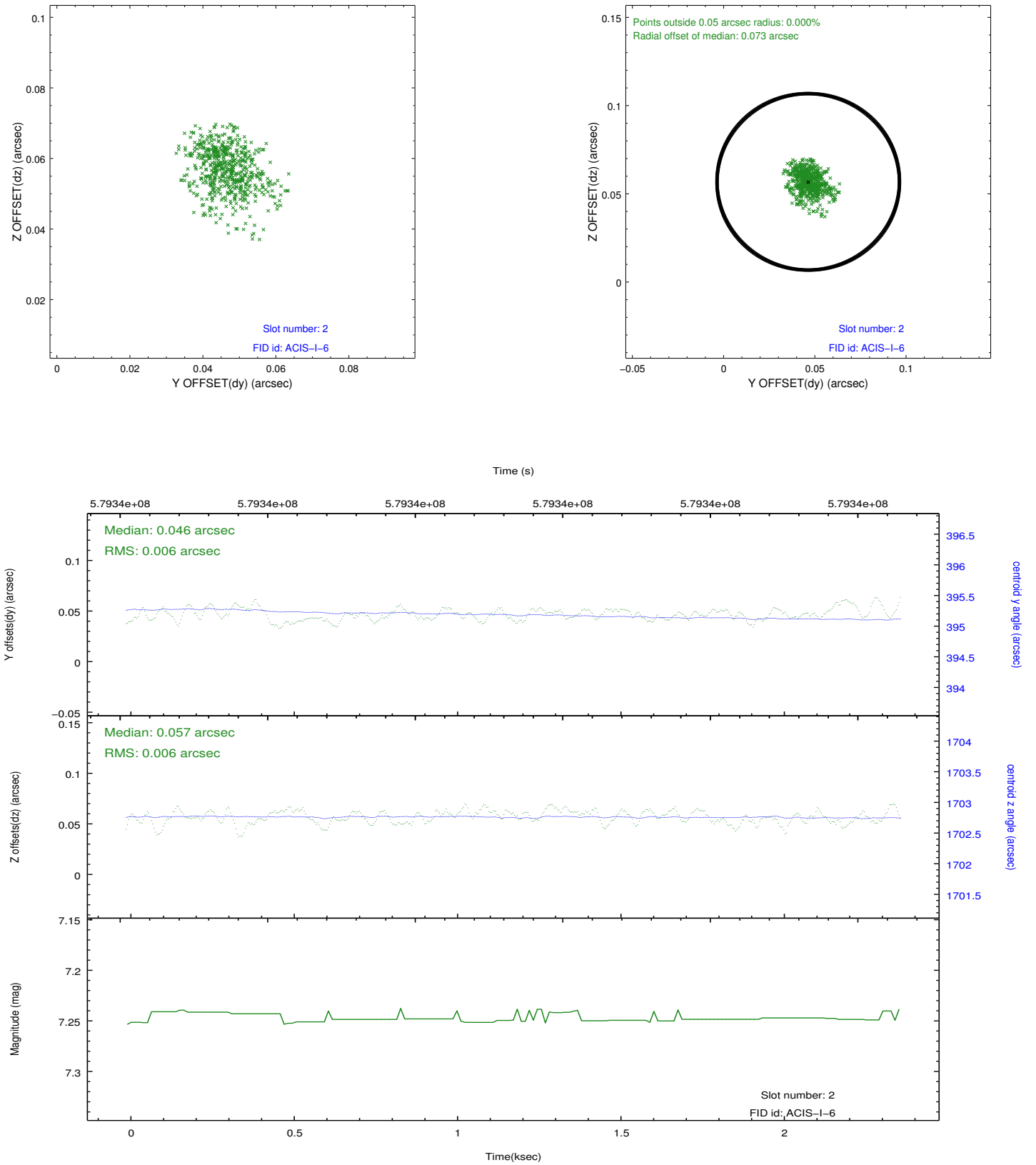
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.955950517416

A.2 Comments