

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18333 - L2 Version 1
Chandra X-Ray Center

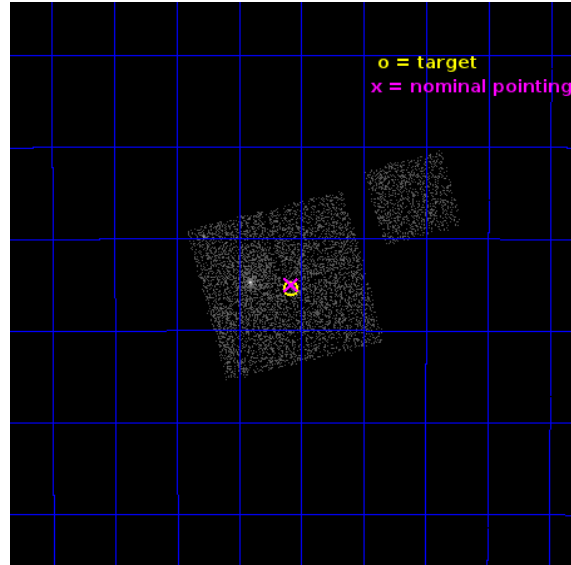
L2 Processing Date : May 22 2016

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1 Front

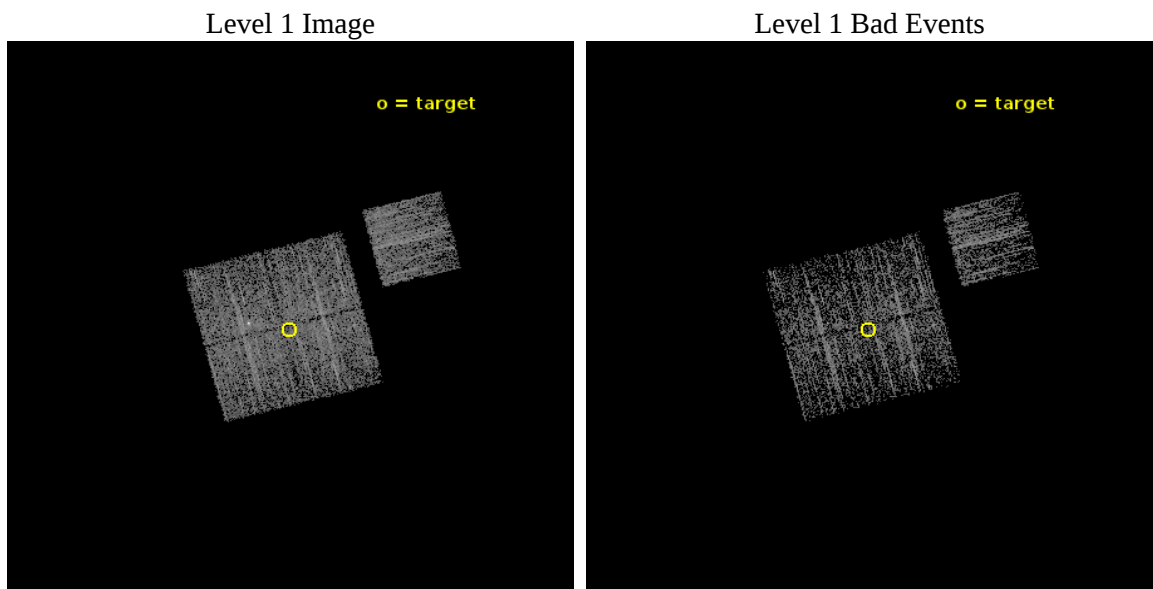
seq_num	300364	Sequence number
obs_id	18333	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.89598	Observer's specified target RA [deg]
dec_targ	-29.75729	Observer's specified target Dec [deg]
ra_nom	265.89489380266	Nominal RA [deg]
dec_nom	-29.750382832127	Nominal Dec [deg]
roll_nom	75.338362941289	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1956.0807090998	Sum of GTIs [s]
livetime	1930.5230745897	Livetime [s]
ontime0	1955.9575890303	Sum of GTIs [s]
ontime1	1955.998628974	Sum of GTIs [s]
ontime2	1956.0396691561	Sum of GTIs [s]
ontime3	1956.0807090998	Sum of GTIs [s]
ontime6	1955.9165489674	Sum of GTIs [s]
l2events	8839	Number of level 2 events



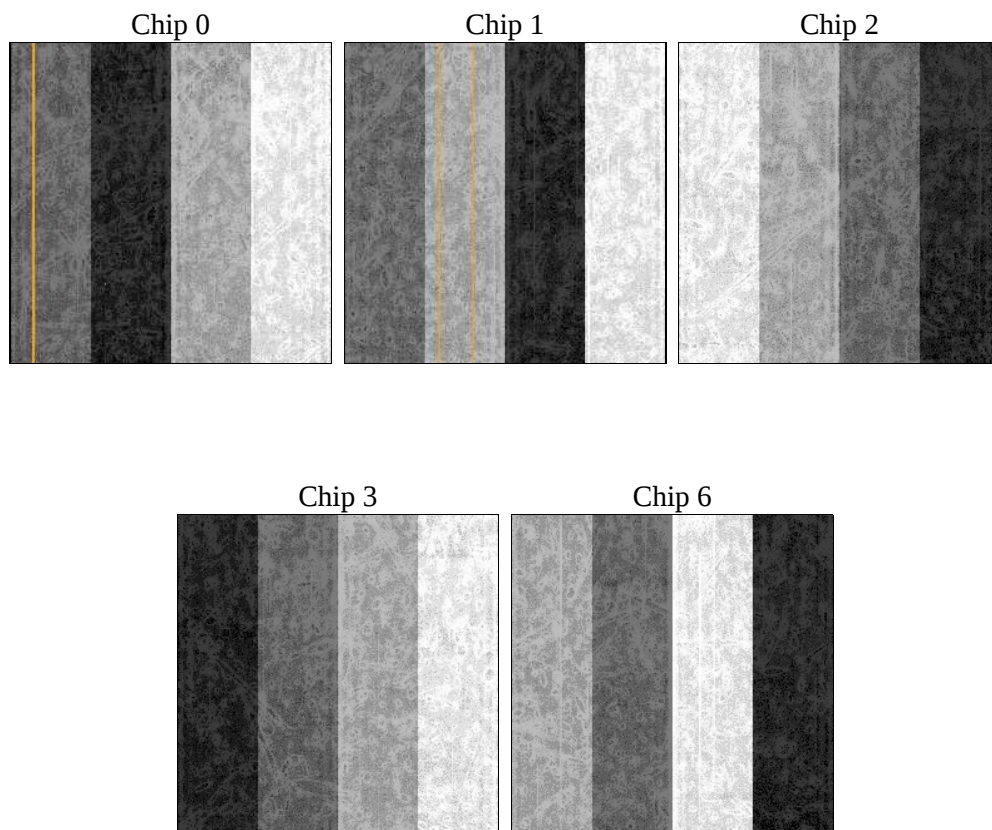
2 OBI

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	1956.0807090998	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.9575890303	Sum of GTIs [s]
date	2016-05-22T07:33:18	Date and time of file creation	ontime1	1955.998628974	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1956.0396691561	Sum of GTIs [s]
			ontime3	1956.0807090998	Sum of GTIs [s]
			ontime6	1955.9165489674	Sum of GTIs [s]
			l1events	61943	Number of level 1 events

2.1.4 Events

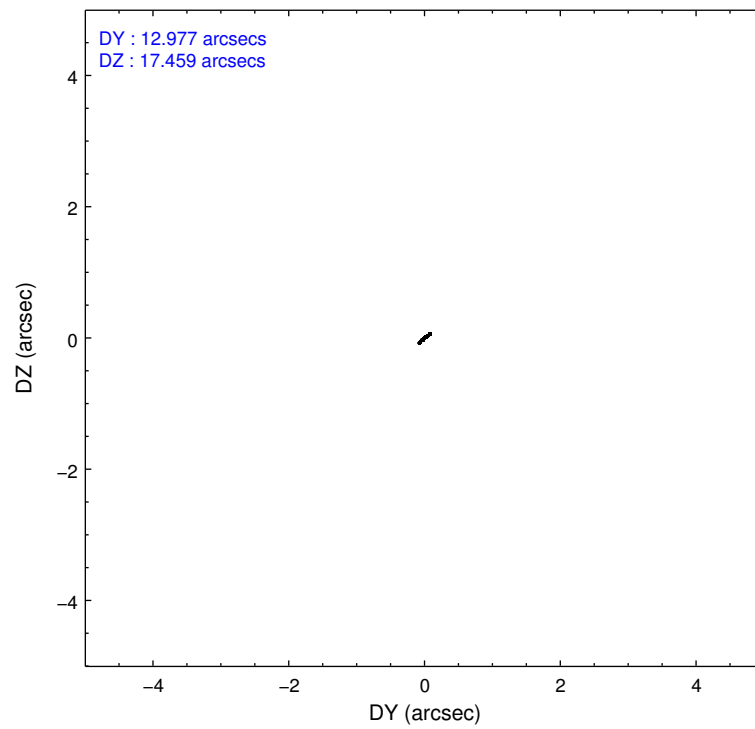
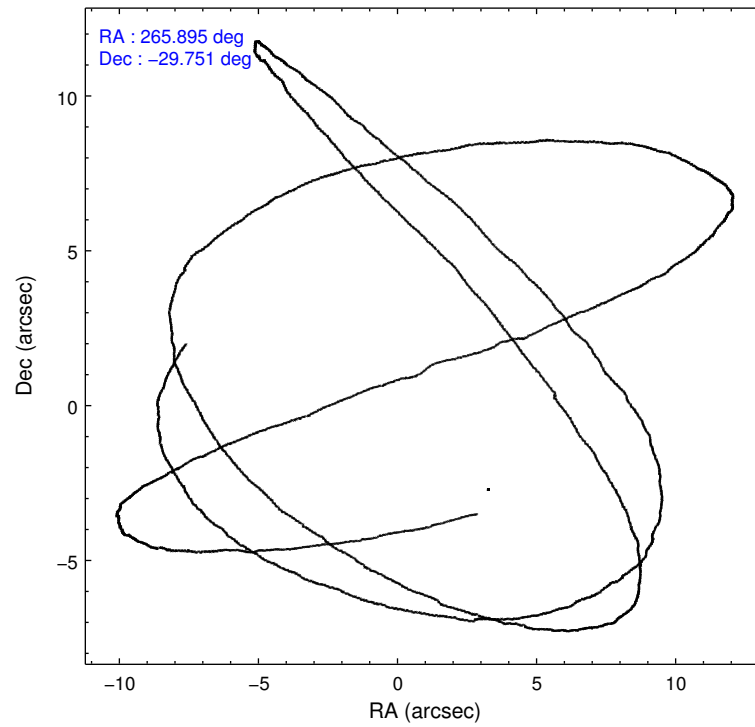
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	12612	11937	12473	12008	12913
rejected events	9428	9859	10644	10384	11415
rejected %	74%	82%	85%	86%	88%

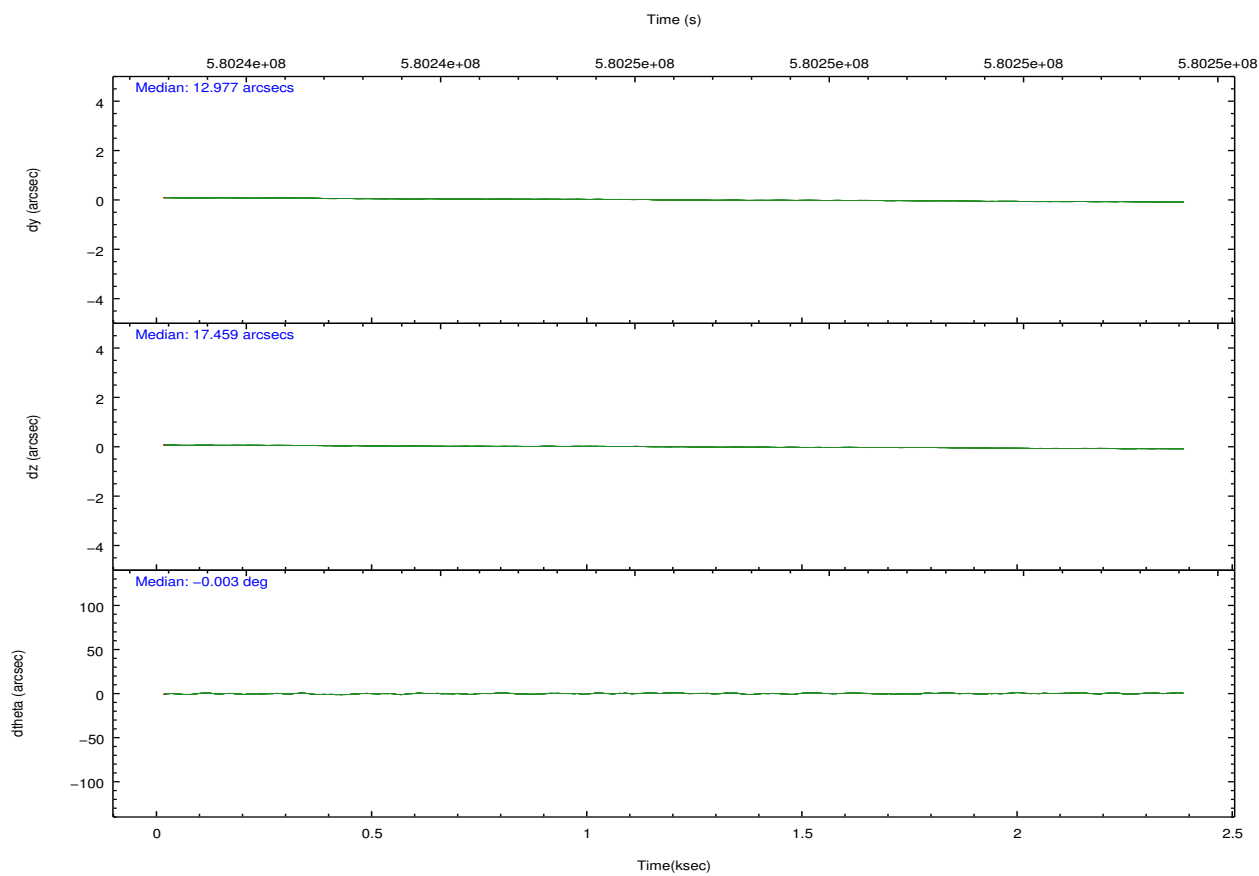
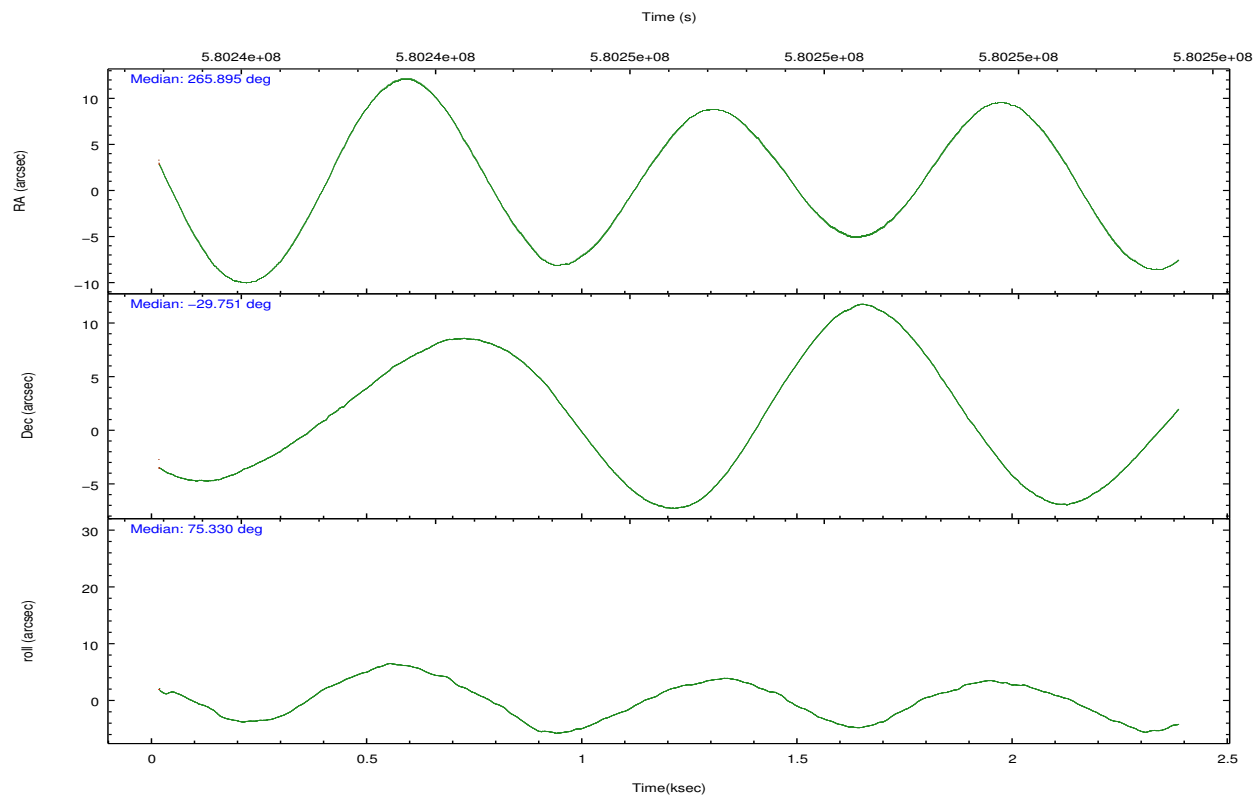
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1753	938	863	693	572
	13%	7%	6%	5%	4%
grade 1 events	40	10	12	13	6
	0%	0%	0%	0%	0%
grade 2 events	598	472	394	340	308
	4%	3%	3%	2%	2%
grade 3 events	225	159	157	151	137
	1%	1%	1%	1%	1%
grade 4 events	215	162	135	135	140
	1%	1%	1%	1%	1%
grade 5 events	542	549	471	645	570
	4%	4%	3%	5%	4%
grade 6 events	395	350	281	308	343
	3%	2%	2%	2%	2%
grade 7 events	8844	9297	10160	9723	10837
	70%	77%	81%	80%	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	265.903685	265.8948938026559	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.776774	-29.75038283212714	CCD I3 on	Y	Y
[deg] Pointing Roll	75.134049	75.33836294128919	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)	580244623.184000	580244247.44874	CCD S5 on	N	N
Observation start date	2016-05-21T19:02:35	2016-05-21T18:57:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580246803.184000	580246937.04889	On-chip summing requested	N	N
Observation end date	2016-05-21T19:38:55	2016-05-21T19:42:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



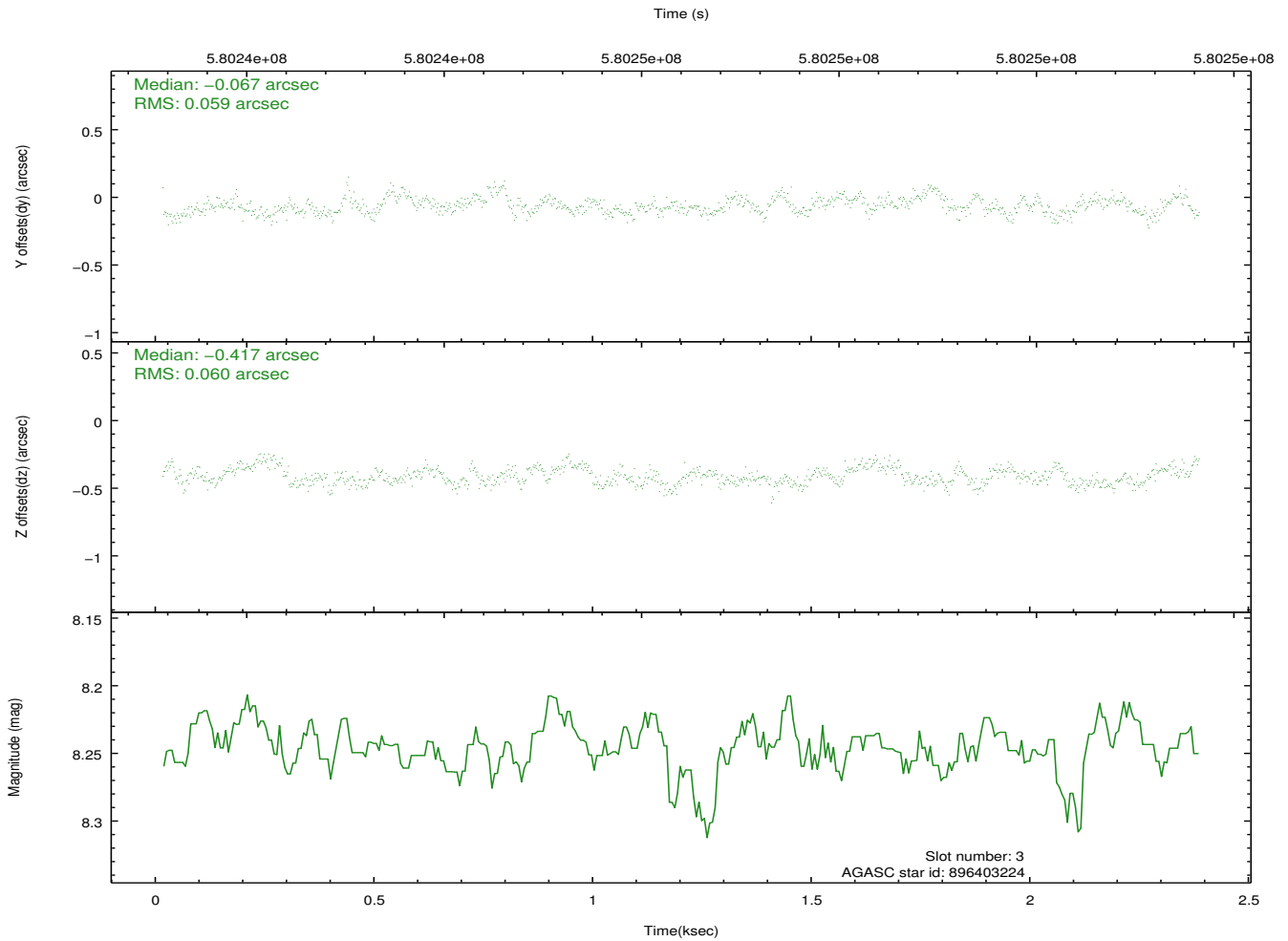
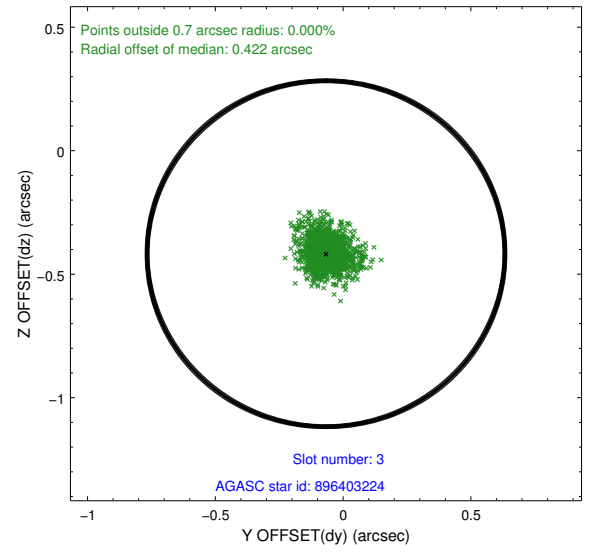
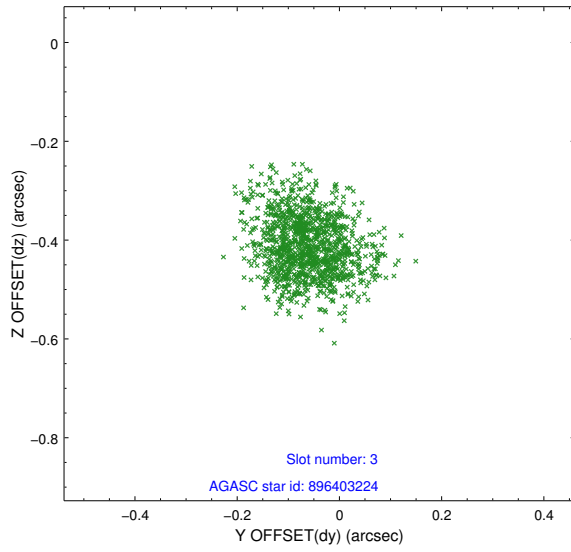


Slot Statistics

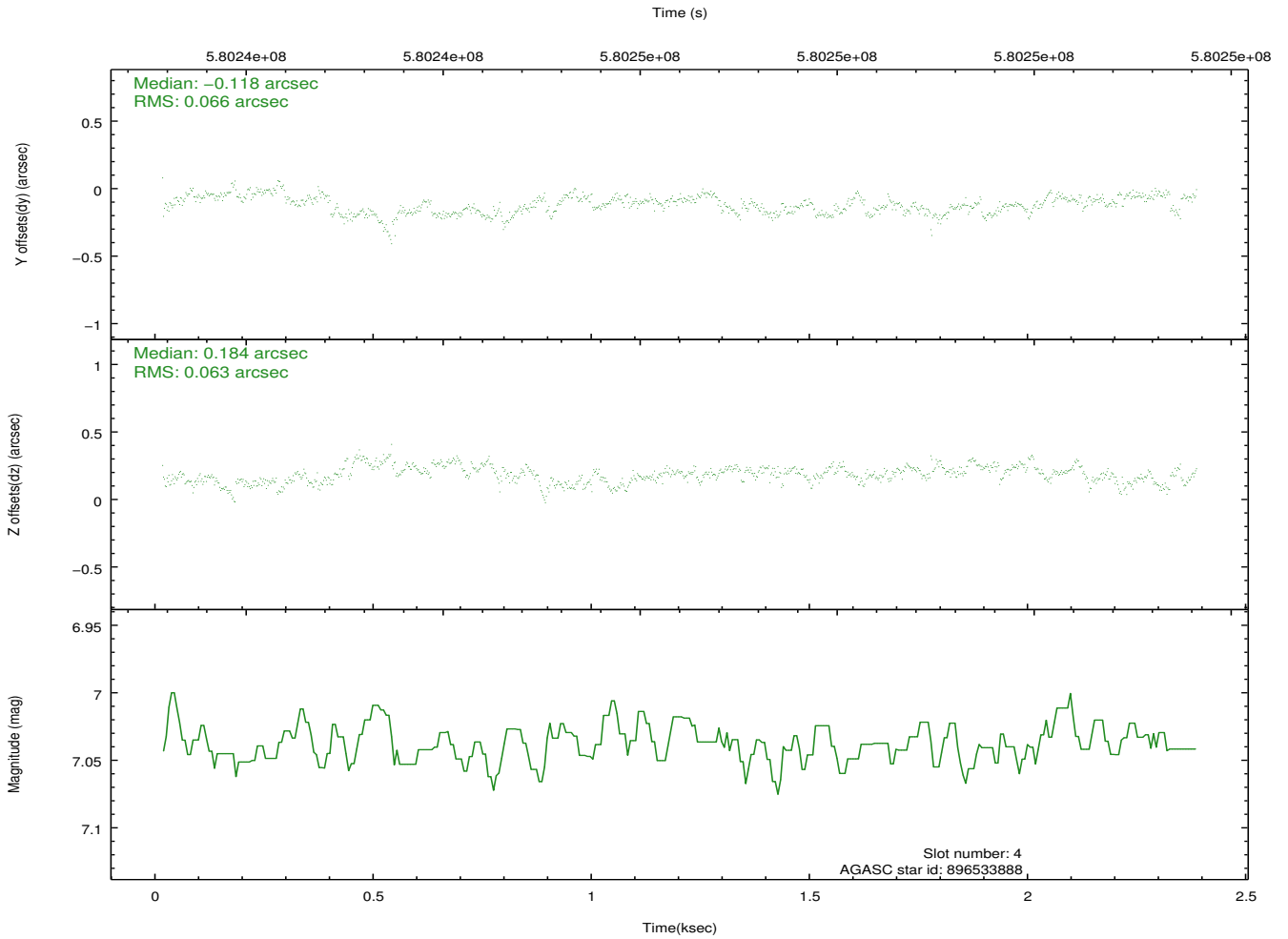
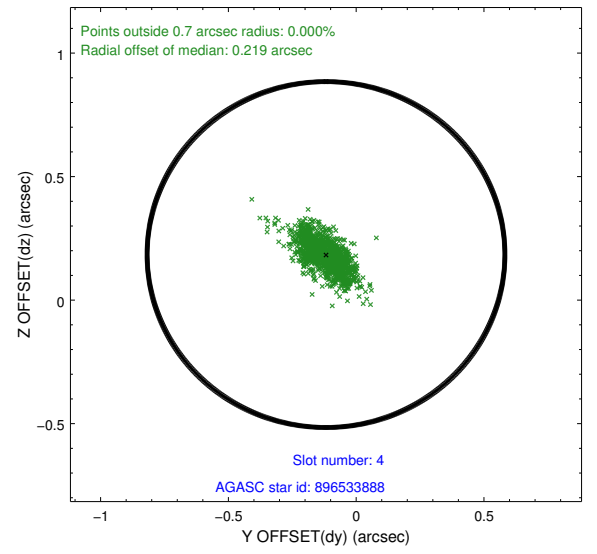
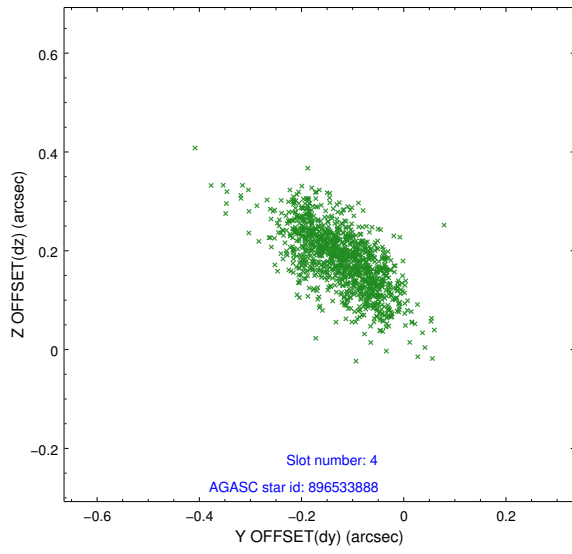
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	579	0.071	-0.037	0.006	0.011	0.000000	0.000000	926.62	-841.14
1	FID		ACIS-I-5	7.27	579	-0.305	0.046	0.006	0.009	0.000000	0.000000	-1820.39	1055.00
2	FID		ACIS-I-6	7.25	579	0.142	0.060	0.006	0.011	0.000000	0.000000	389.21	1702.66
3	GUIDE	used	896403224	8.25	1157	-0.067	-0.417	0.087	0.148	265.612825	-29.438915	941.04	1192.19
4	GUIDE	used	896533888	7.04	1157	-0.118	0.184	0.093	0.153	266.666434	-29.392757	1944.46	-1958.72
5	GUIDE	used	896541360	7.72	1157	0.014	0.221	0.085	0.142	266.684478	-29.453744	1747.05	-2071.12
6	GUIDE	used	966924920	8.06	1157	-0.026	0.232	0.092	0.159	265.875401	-30.176961	-1412.45	-286.75
7	GUIDE	used	966788216	9.06	1154	0.189	-0.227	0.123	0.201	265.089173	-30.220730	-2204.21	2035.52

2.4 Star Slots

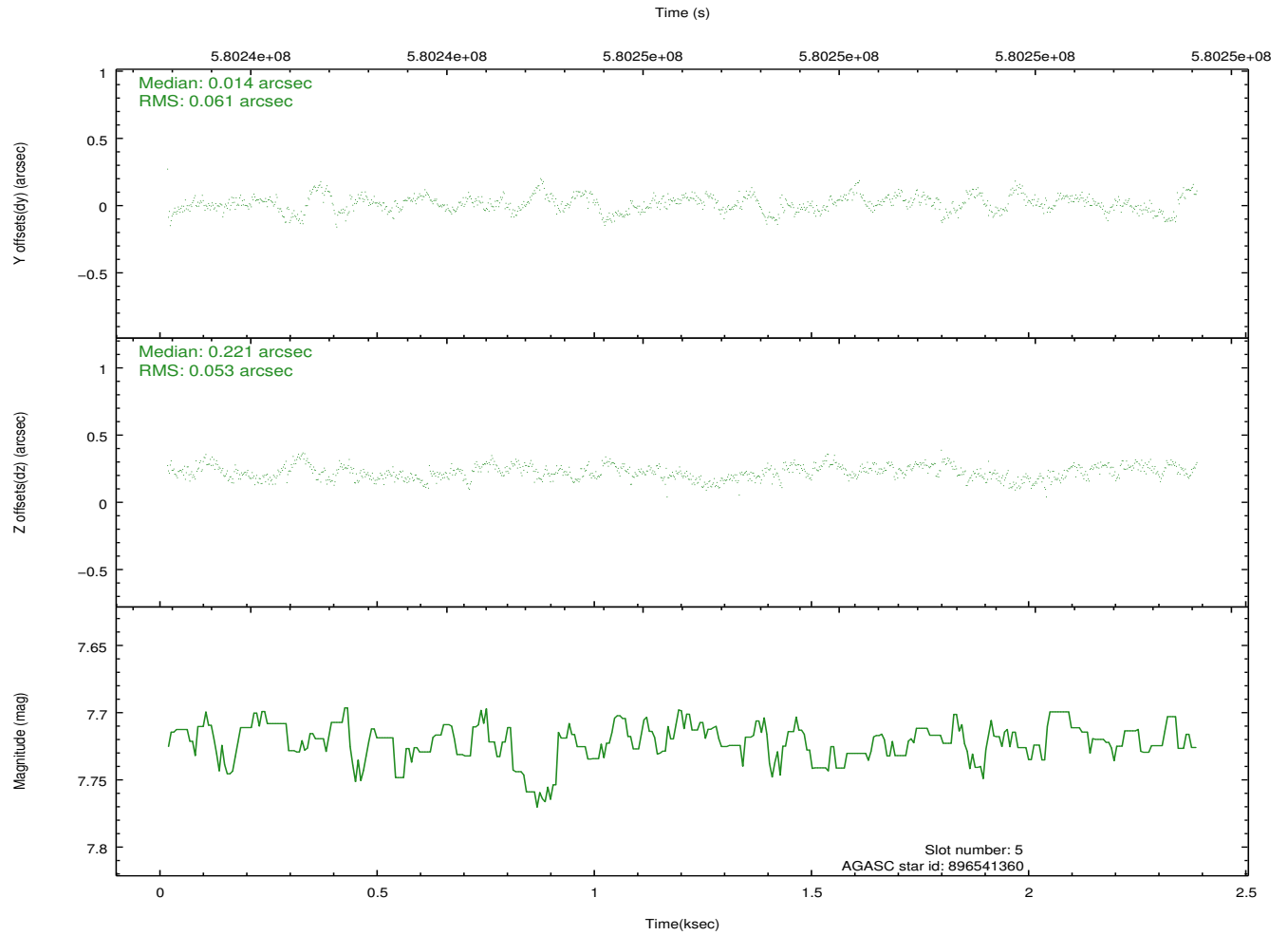
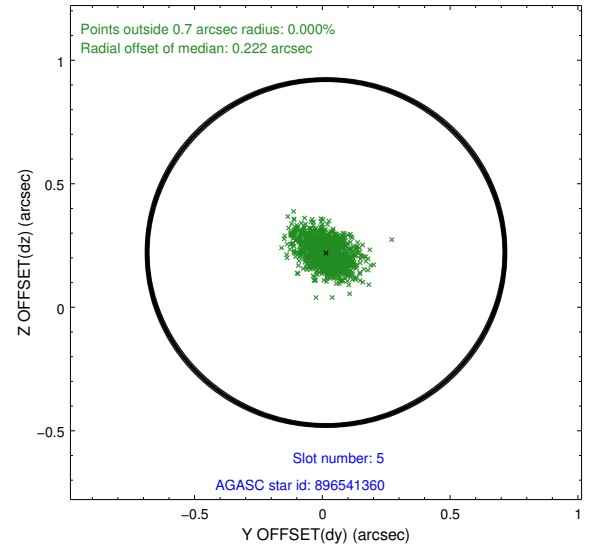
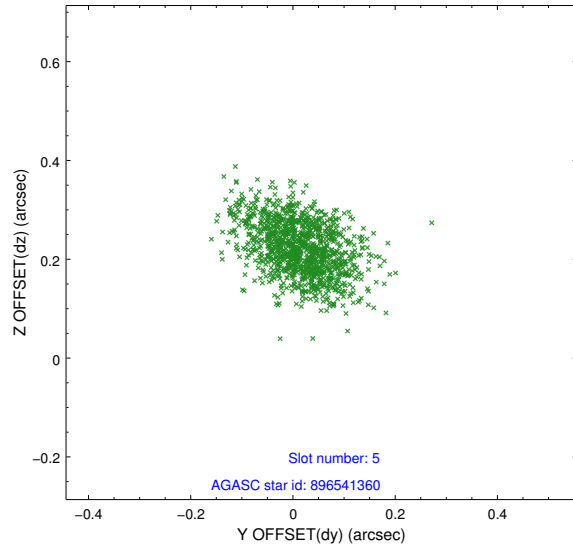
2.4.1 Slot 3



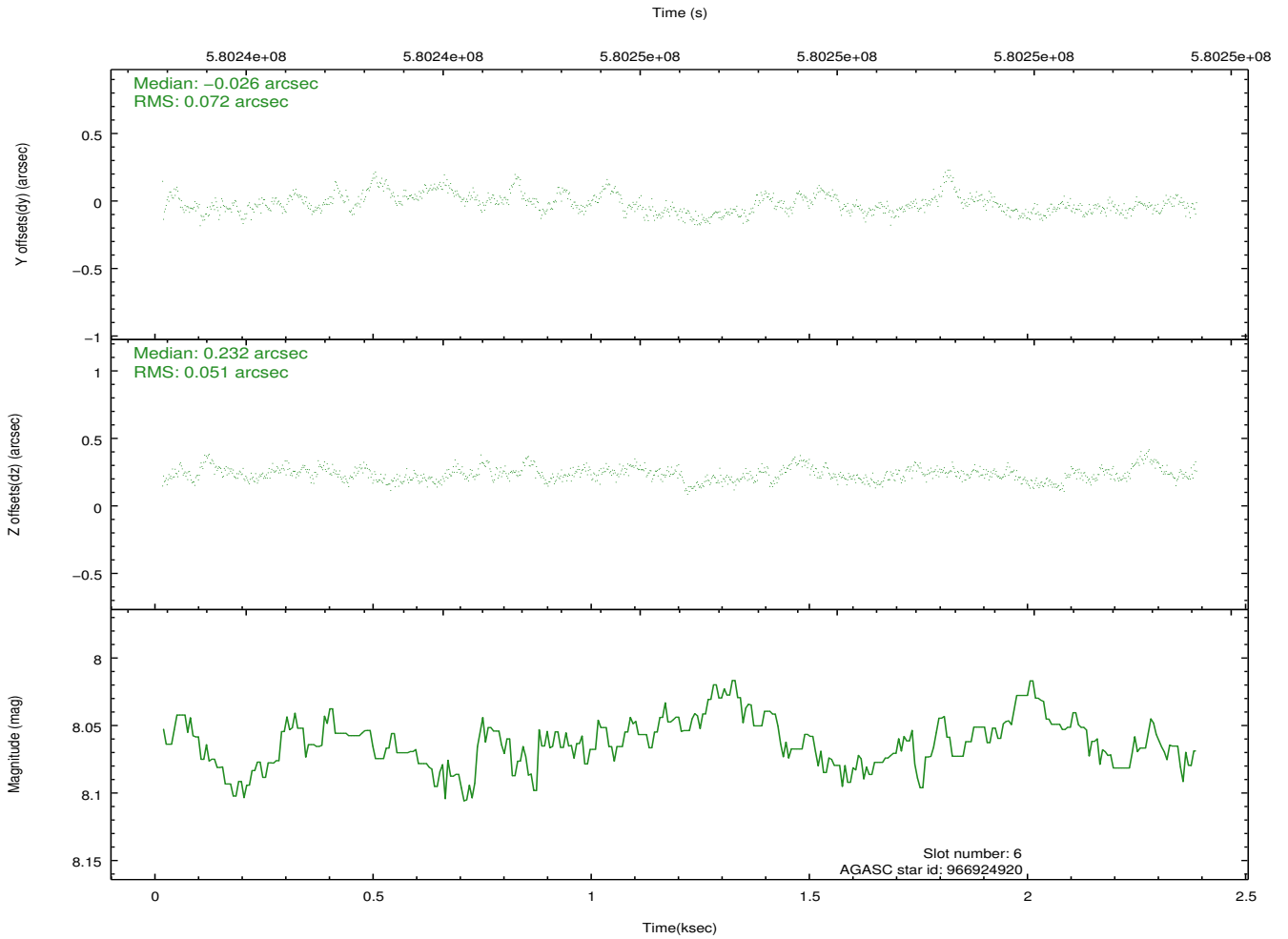
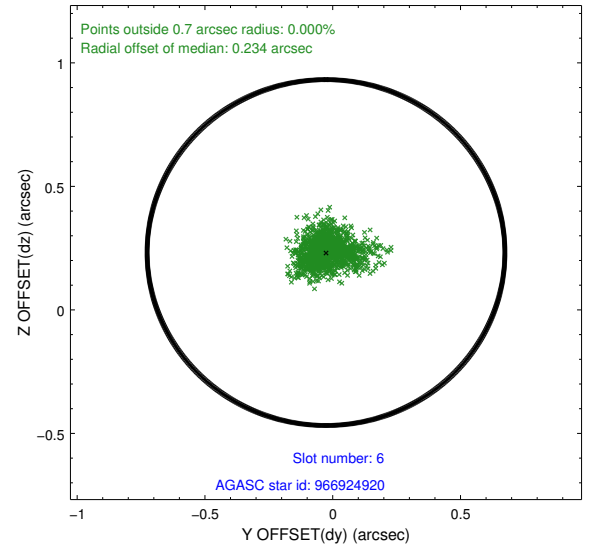
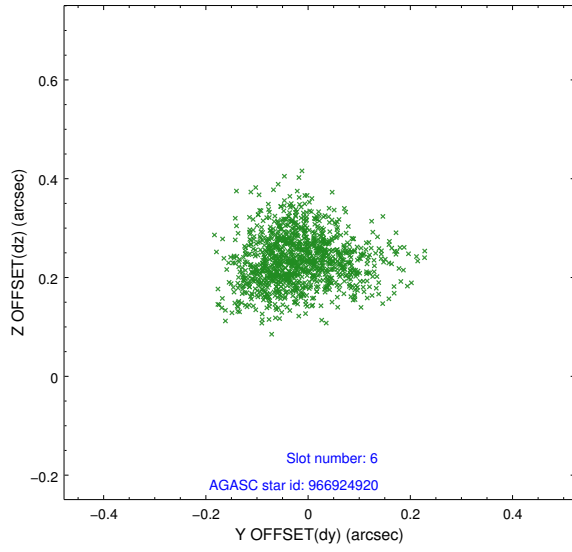
2.4.2 Slot 4



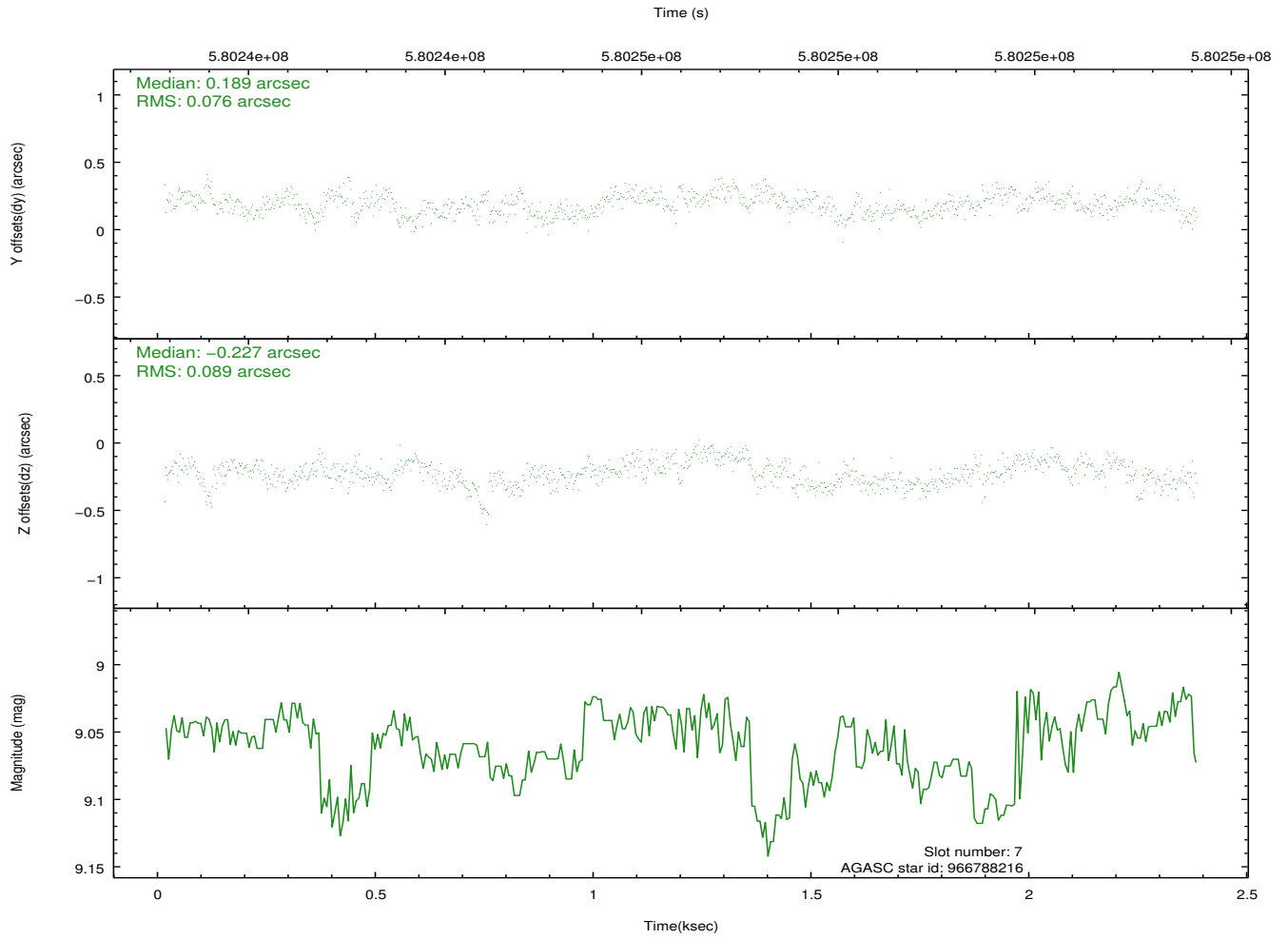
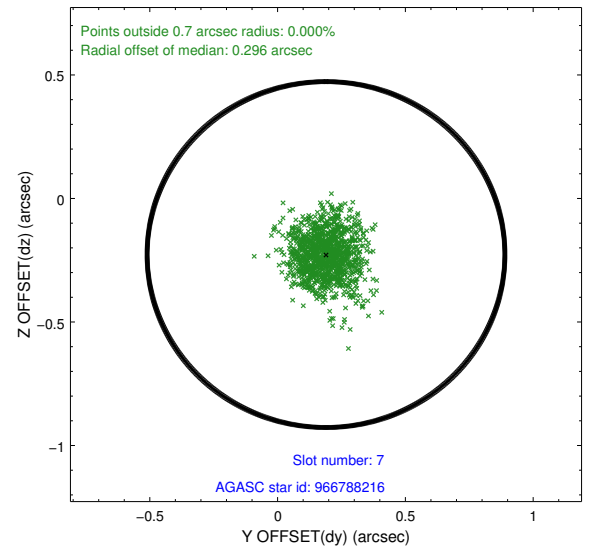
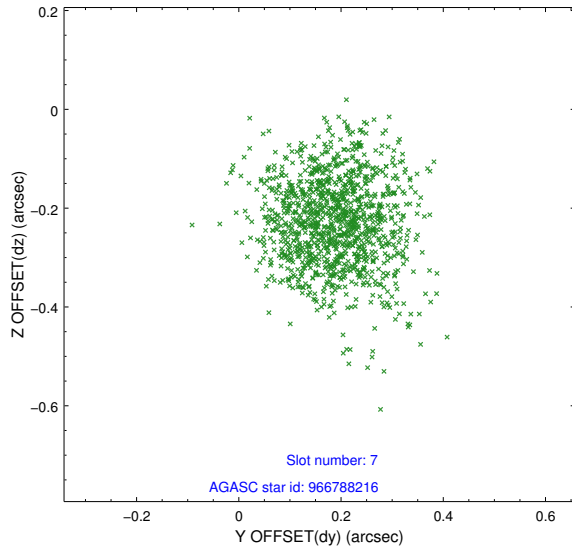
2.4.3 Slot 5



2.4.4 Slot 6

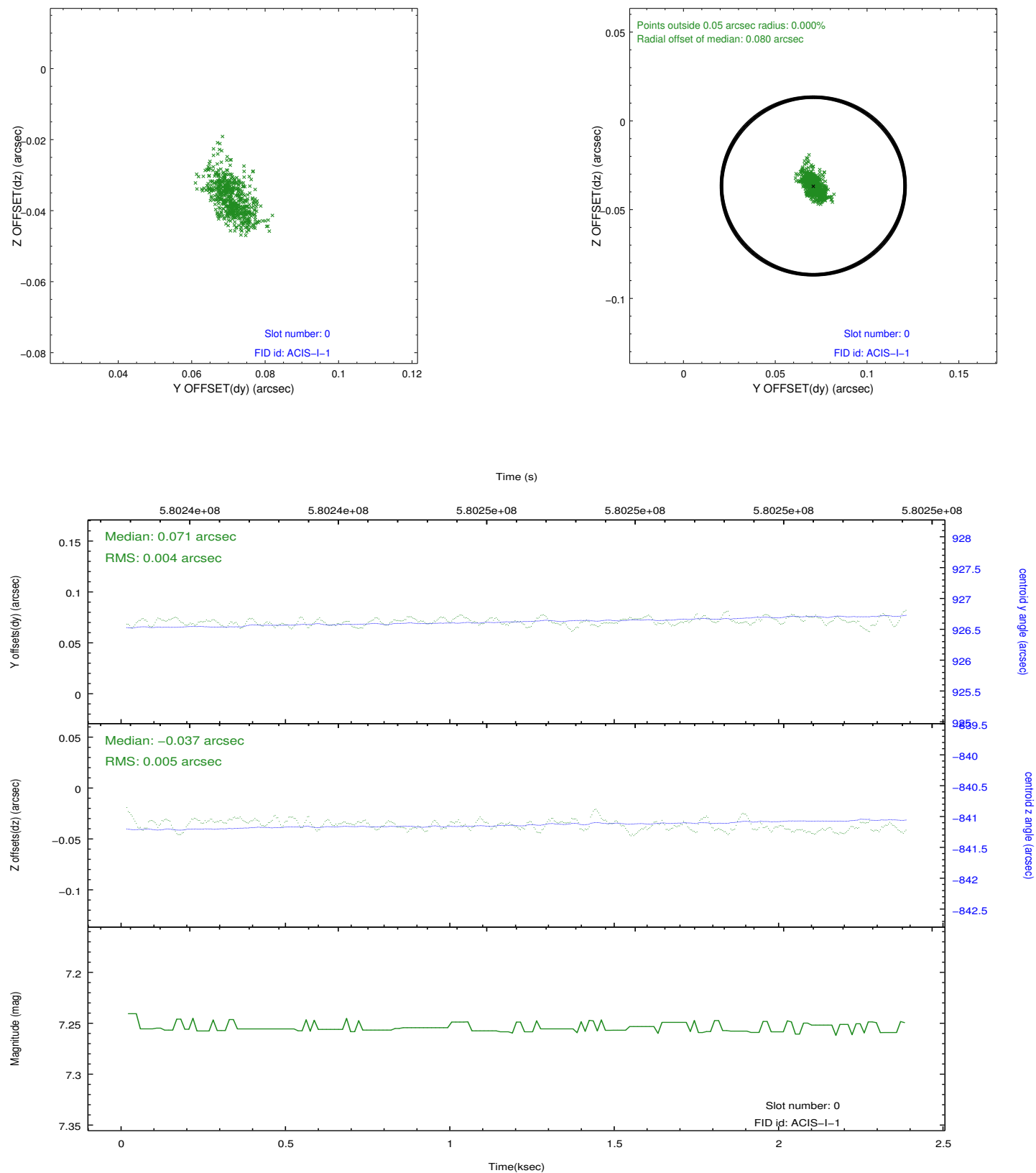


2.4.5 Slot 7

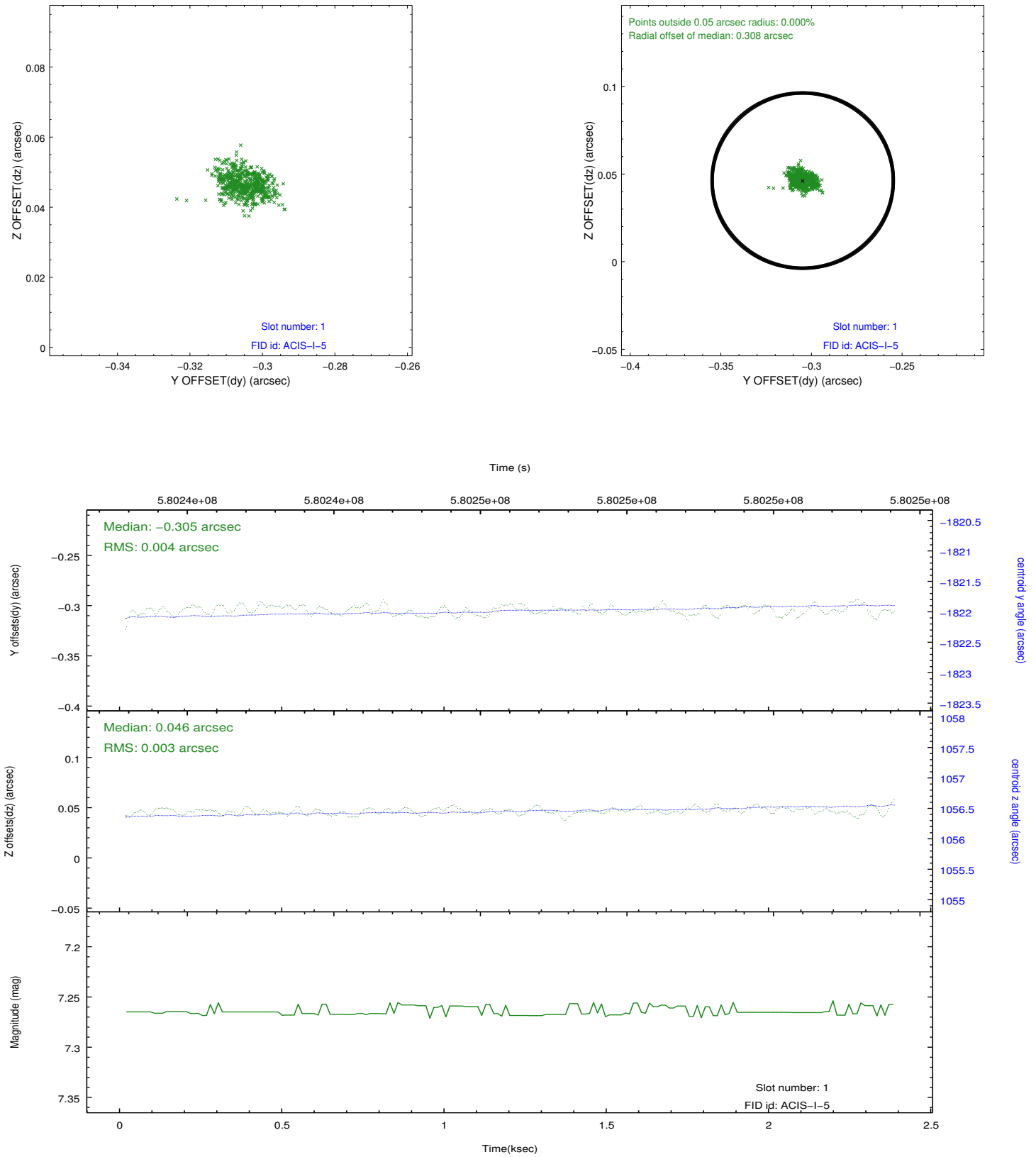


2.5 FID Slots

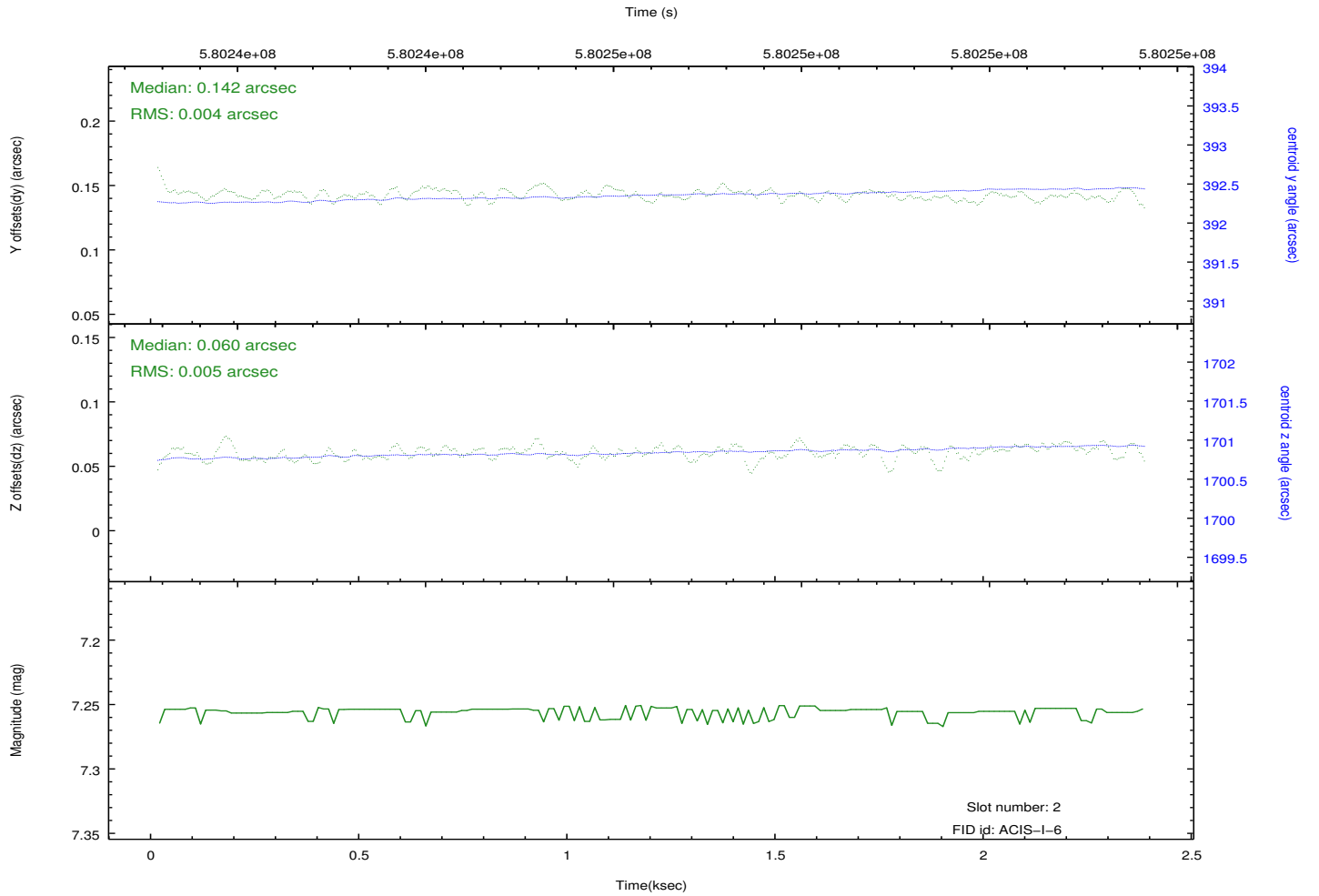
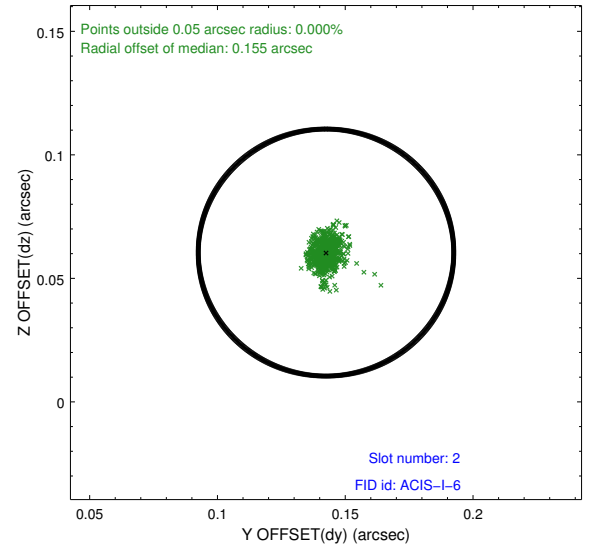
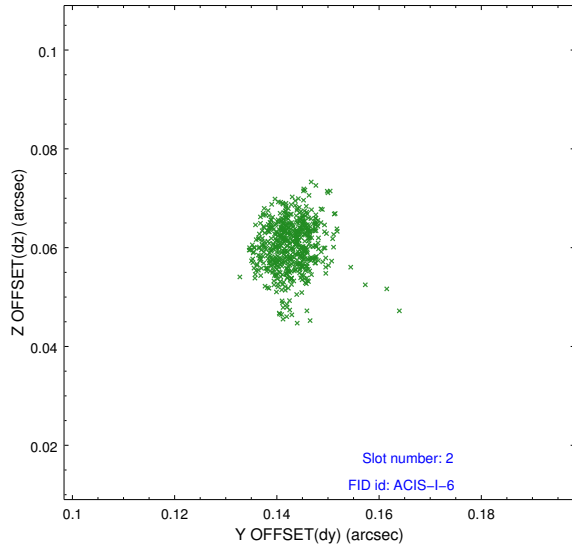
2.5.1 Slot 0



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)	2016.05.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9560807090998

A.2 Comments