

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18642 - L2 Version 1
Chandra X-Ray Center

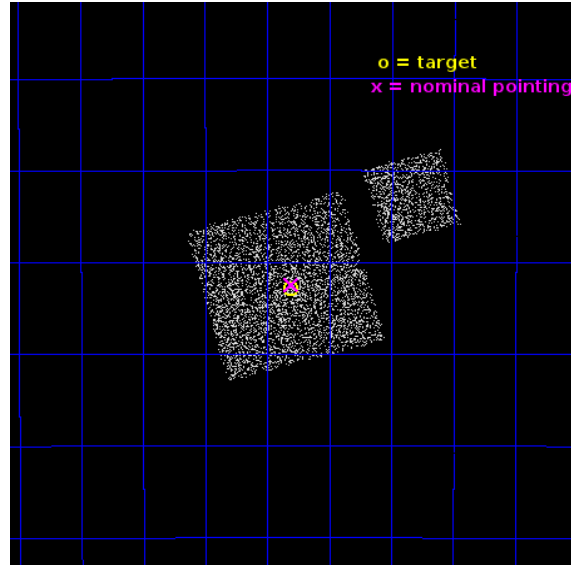
L2 Processing Date : May 22 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

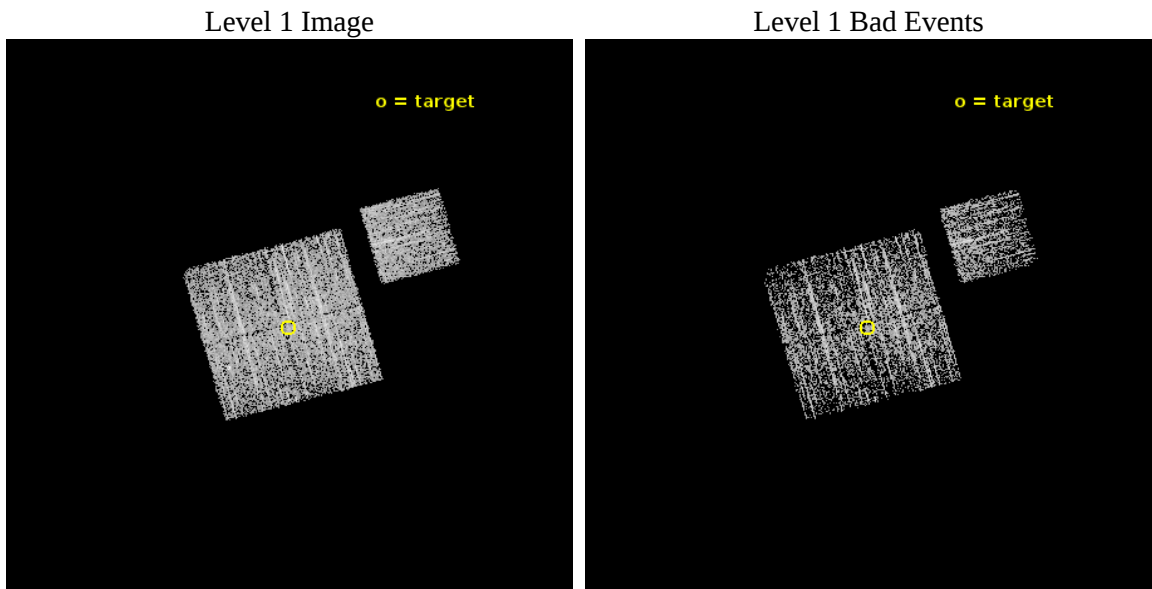
seq_num	300366	Sequence number
obs_id	18642	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.45199	Observer's specified target RA [deg]
dec_targ	-29.88179	Observer's specified target Dec [deg]
ra_nom	265.45149942684	Nominal RA [deg]
dec_nom	-29.874477628131	Nominal Dec [deg]
roll_nom	74.632804030781	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.6436213255	Sum of GTIs [s]
livetime	1930.091697689	Livetime [s]
ontime0	1955.5205013752	Sum of GTIs [s]
ontime1	1955.5615413189	Sum of GTIs [s]
ontime2	1955.6025813818	Sum of GTIs [s]
ontime3	1955.6436213255	Sum of GTIs [s]
ontime6	1955.4794613123	Sum of GTIs [s]
l2events	6553	Number of level 2 events



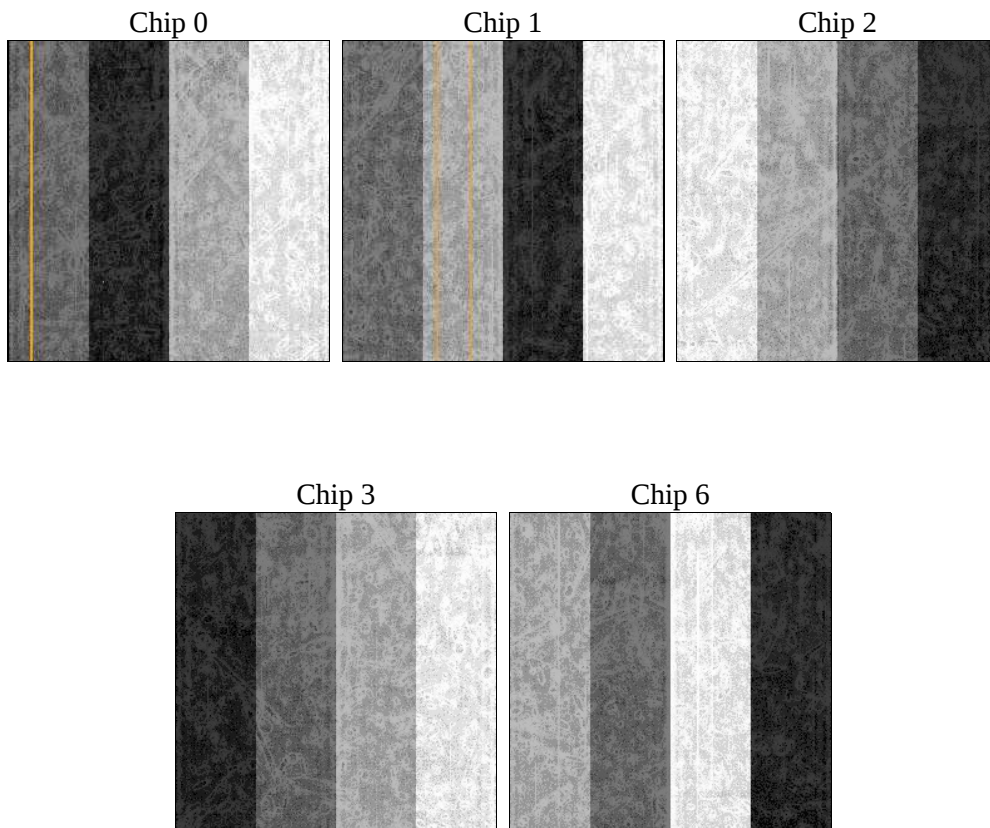
2 OBI

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	1955.6436213255	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.5205013752	Sum of GTIs [s]
date	2016-05-22T07:36:15	Date and time of file creation	ontime1	1955.5615413189	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.6025813818	Sum of GTIs [s]
			ontime3	1955.6436213255	Sum of GTIs [s]
			ontime6	1955.4794613123	Sum of GTIs [s]
			l1events	59425	Number of level 1 events

2.1.4 Events

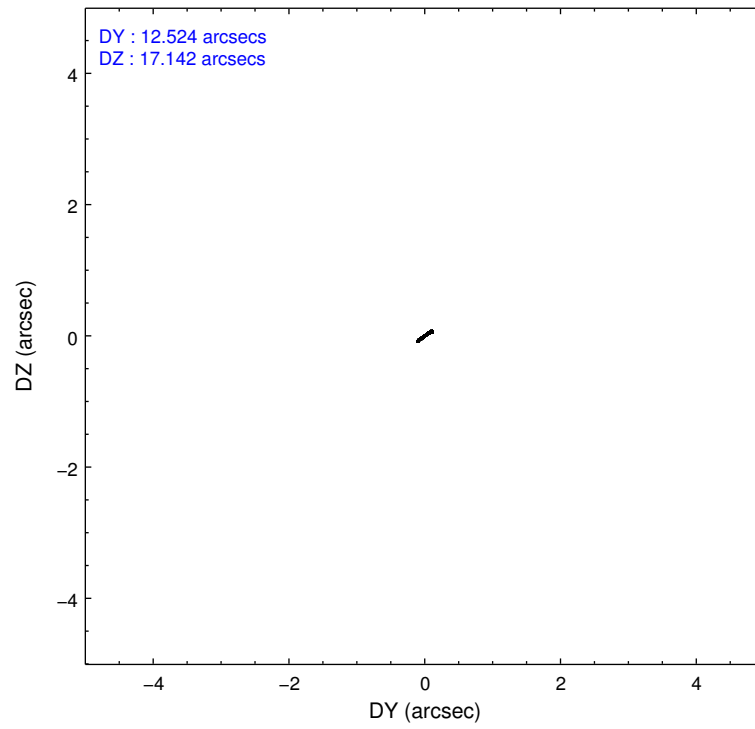
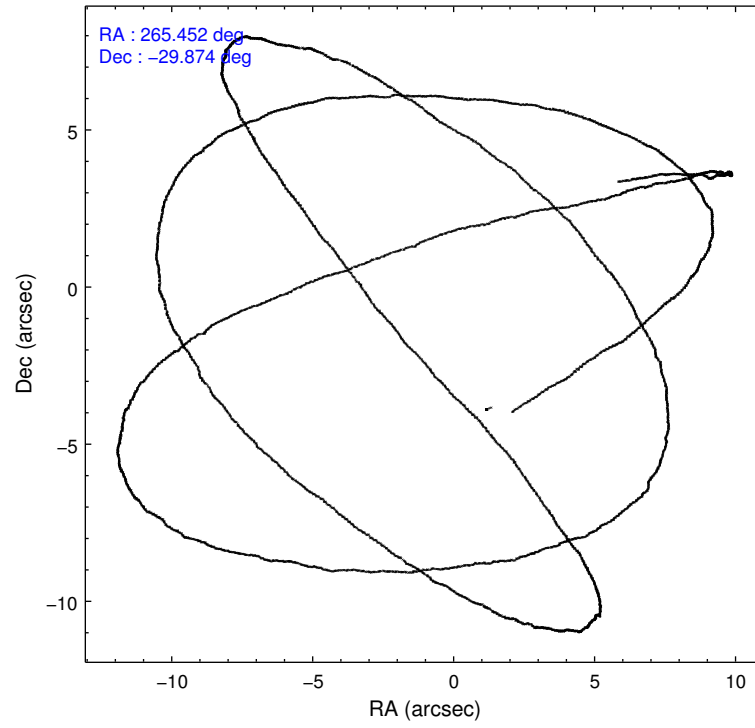
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10440	11136	13561	12386	11902
rejected events	8938	9267	12154	10925	10378
rejected %	85%	83%	89%	88%	87%

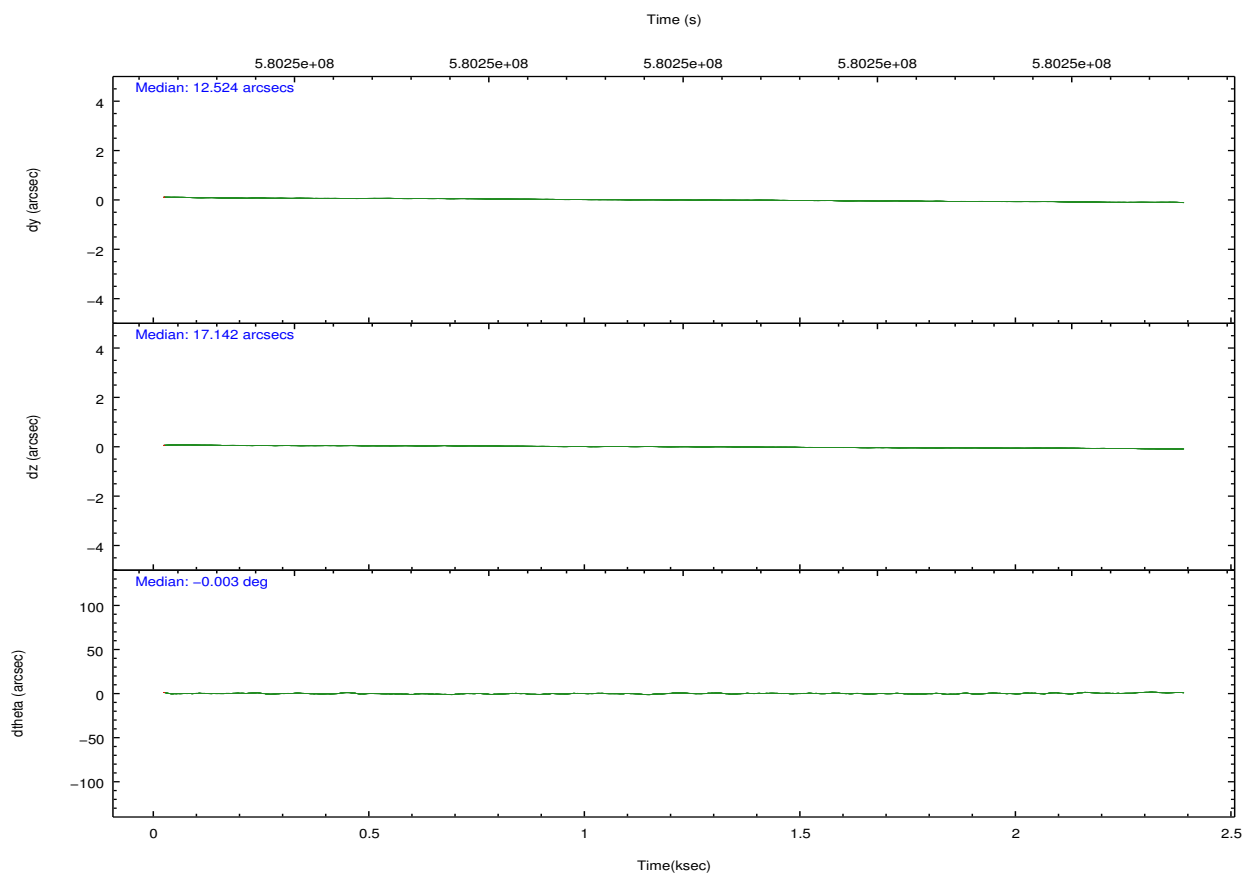
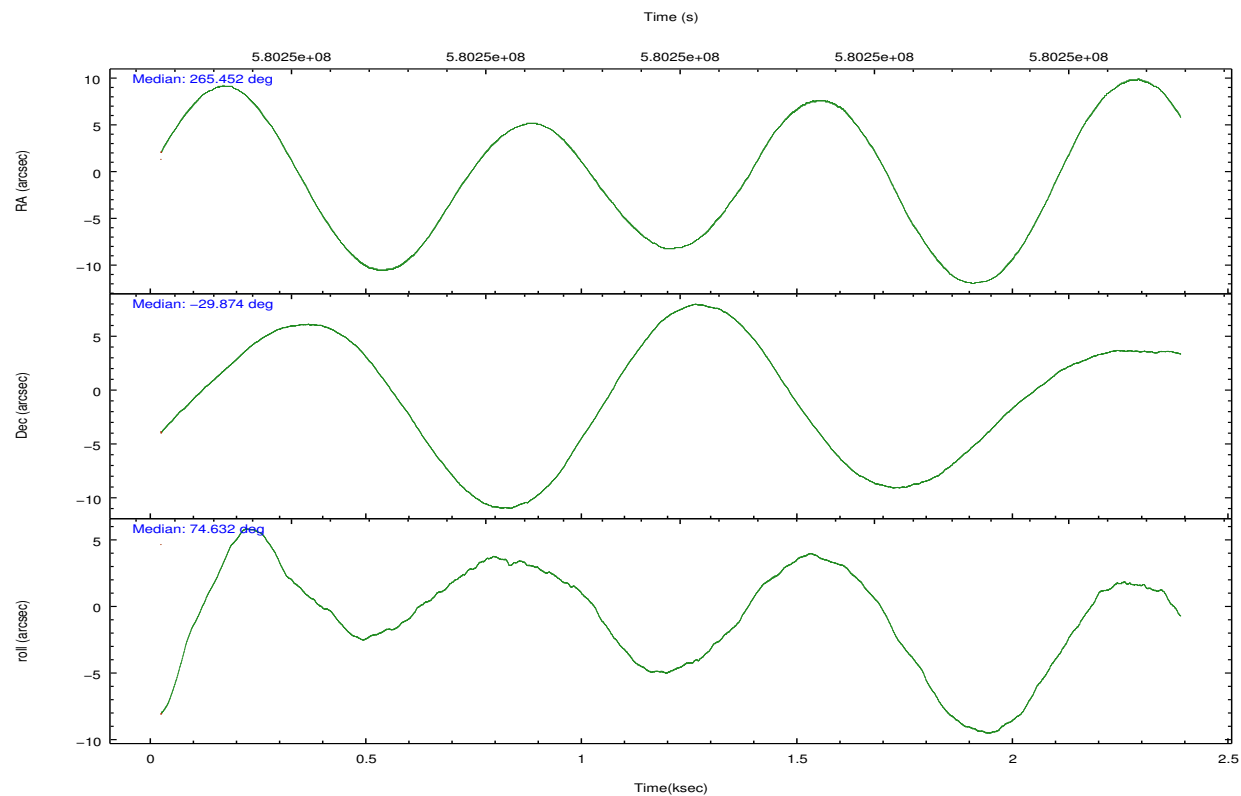
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	592	814	542	581	558
	5%	7%	3%	4%	4%
grade 1 events	6	7	12	10	6
	0%	0%	0%	0%	0%
grade 2 events	320	433	331	286	331
	3%	3%	2%	2%	2%
grade 3 events	155	132	146	157	130
	1%	1%	1%	1%	1%
grade 4 events	143	145	145	152	146
	1%	1%	1%	1%	1%
grade 5 events	462	499	527	576	601
	4%	4%	3%	4%	5%
grade 6 events	292	349	246	292	363
	2%	3%	1%	2%	3%
grade 7 events	8470	8757	11612	10332	9767
	81%	78%	85%	83%	82%

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	265.459424	265.4514994268393	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.901349	-29.87447762813117	CCD I3 on	Y	Y
[deg] Pointing Roll	74.428051	74.63280403078122	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)	580250003.184000	580249627.16154	CCD S5 on	N	N
Observation start date	2016-05-21T20:32:15	2016-05-21T20:27:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	580252183.184000	580252317.2742	On-chip summing requested	N	N
Observation end date	2016-05-21T21:08:35	2016-05-21T21:11:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



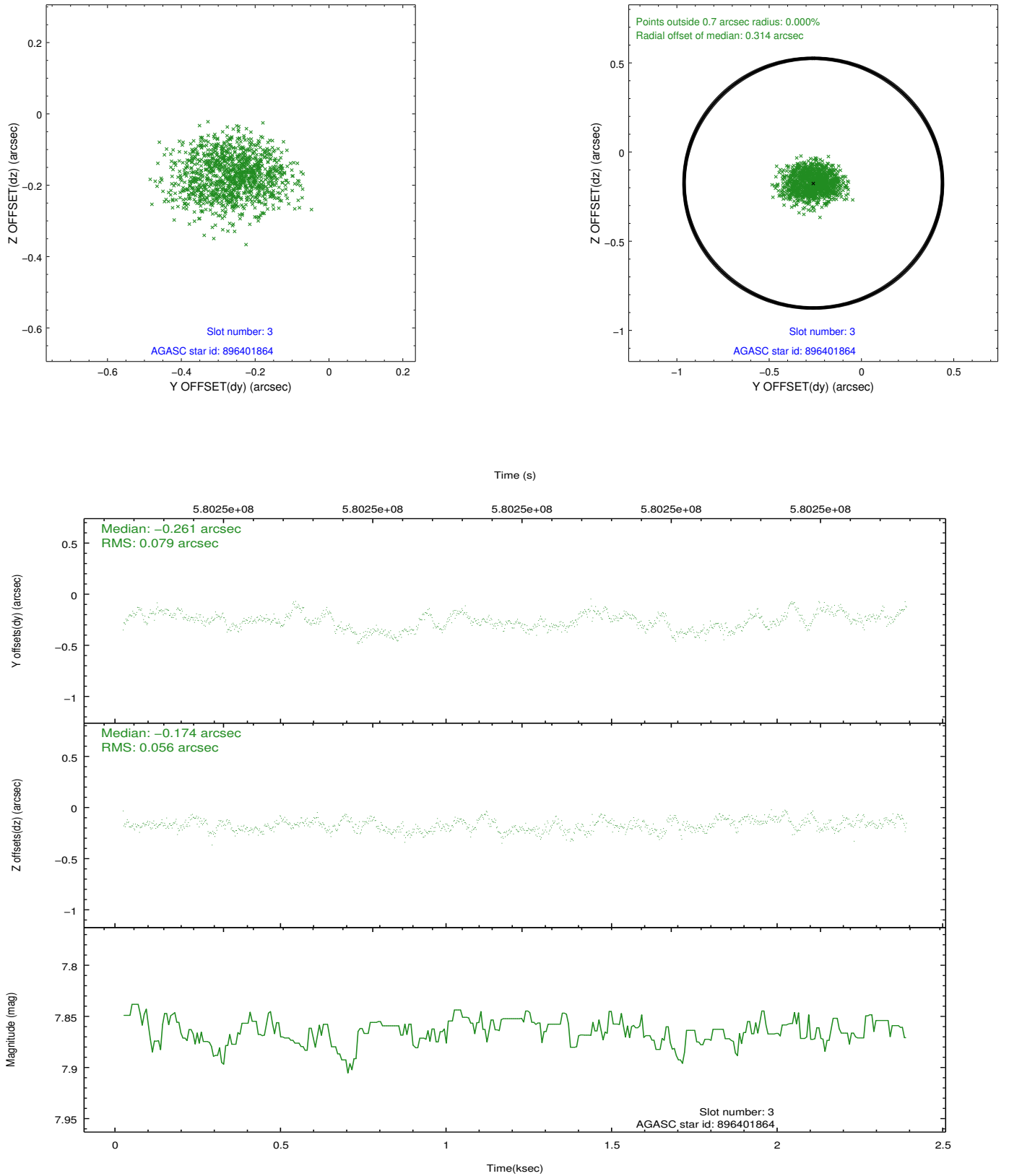


Slot Statistics

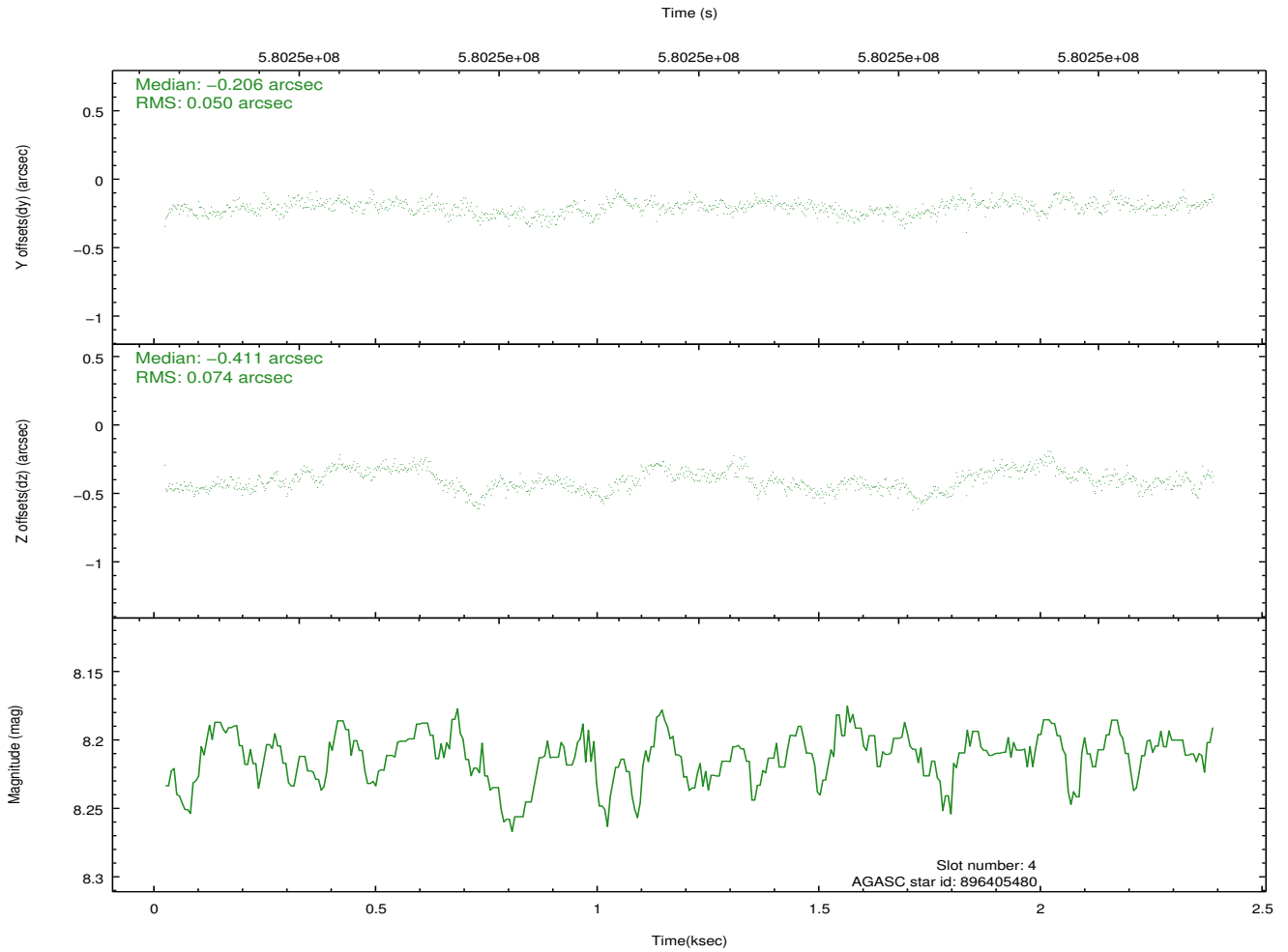
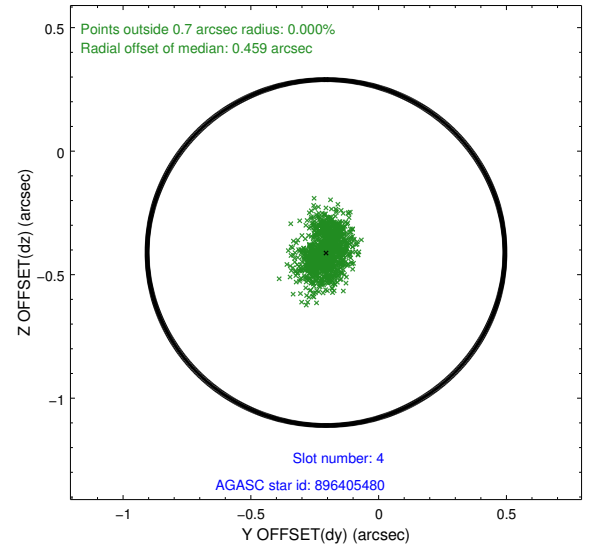
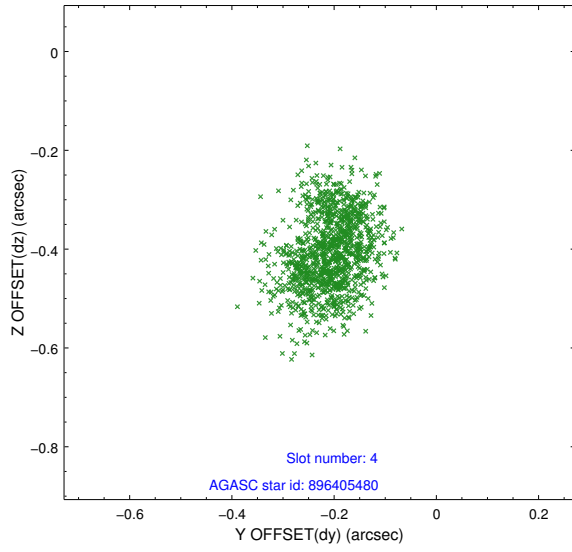
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	578	0.075	-0.050	0.008	0.021	0.000000	0.000000	927.09	-840.83
1	FID		ACIS-I-5	7.26	578	-0.304	0.048	0.007	0.013	0.000000	0.000000	-1819.91	1055.33
2	FID		ACIS-I-6	7.26	578	0.138	0.073	0.008	0.014	0.000000	0.000000	389.67	1703.00
3	GUIDE	used	896401864	7.86	1154	-0.261	-0.174	0.106	0.164	264.861768	-29.959752	-708.62	1738.26
4	GUIDE	used	896405480	8.21	1155	-0.206	-0.411	0.097	0.151	265.220460	-29.599691	843.03	1013.55
5	GUIDE	used	966790944	8.74	1152	-0.035	-0.139	0.099	0.160	265.185568	-30.443091	-2107.83	296.21
6	GUIDE	used	966920024	8.82	1154	0.413	0.543	0.212	0.294	265.515080	-30.492187	-2004.71	-736.04
7	GUIDE	used	966924920	8.05	1153	0.071	0.187	0.112	0.186	265.875401	-30.176961	-612.85	-1513.95

2.4 Star Slots

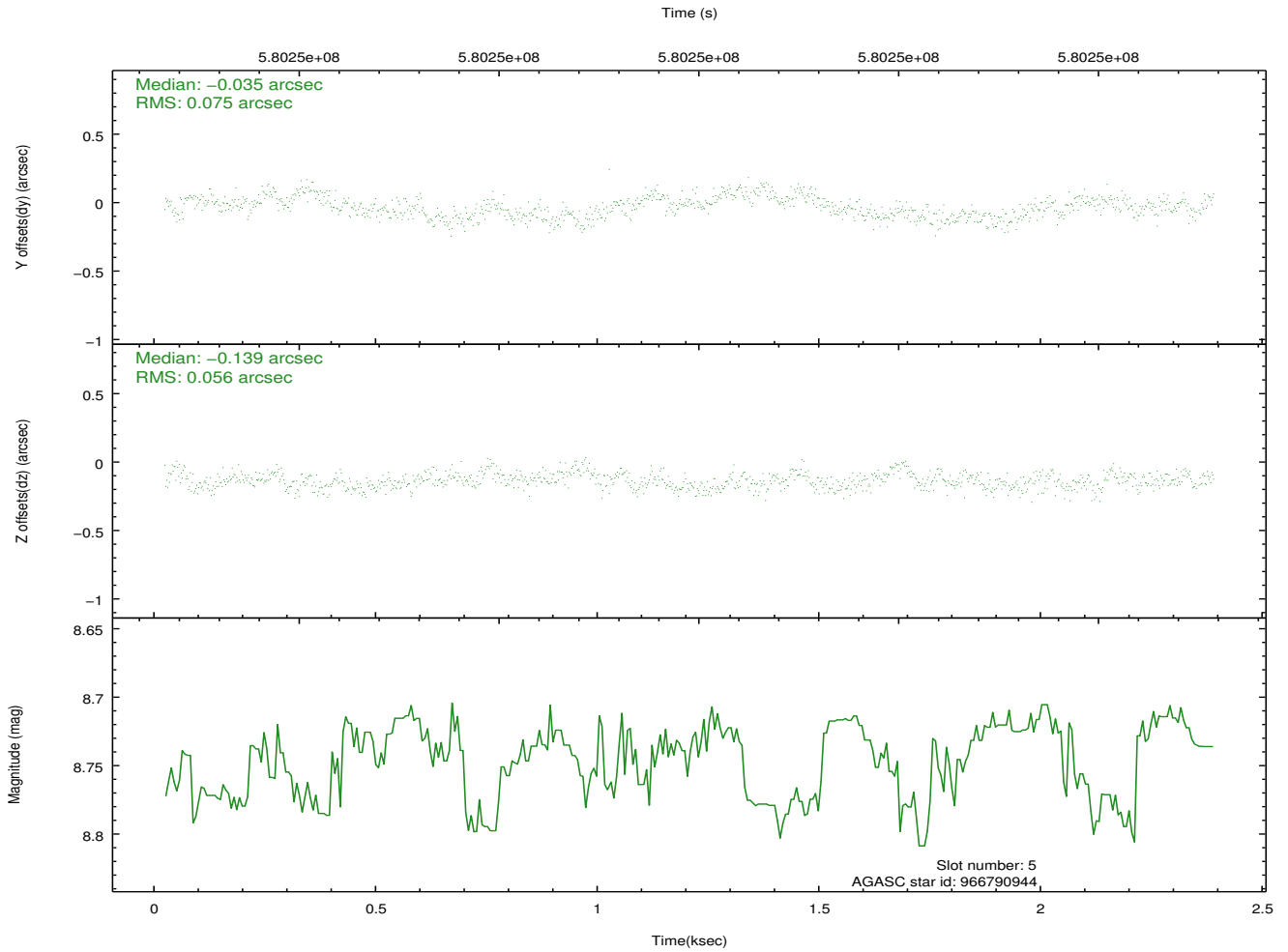
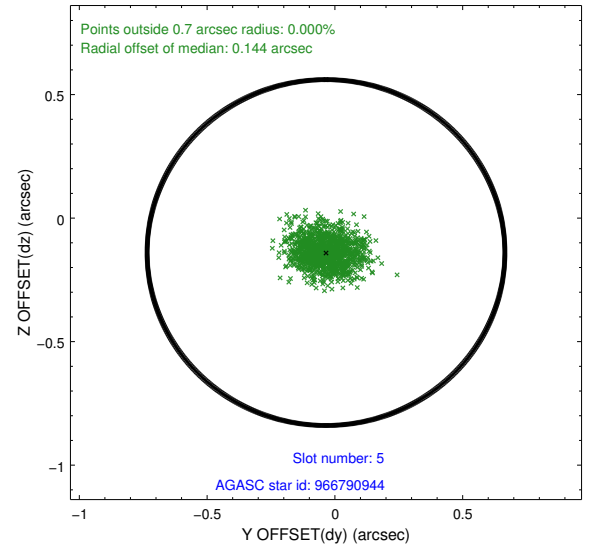
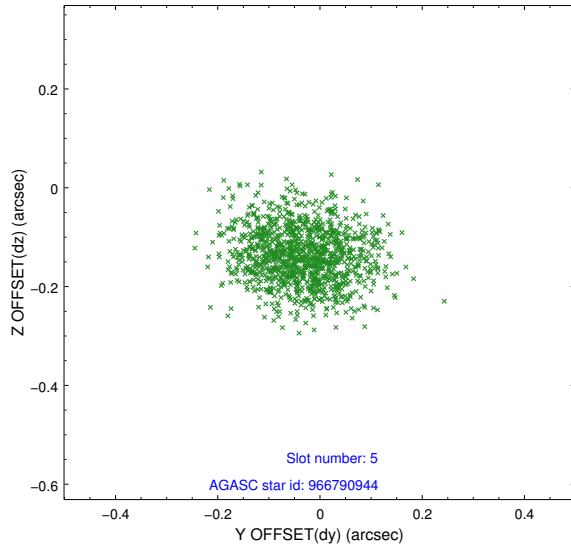
2.4.1 Slot 3



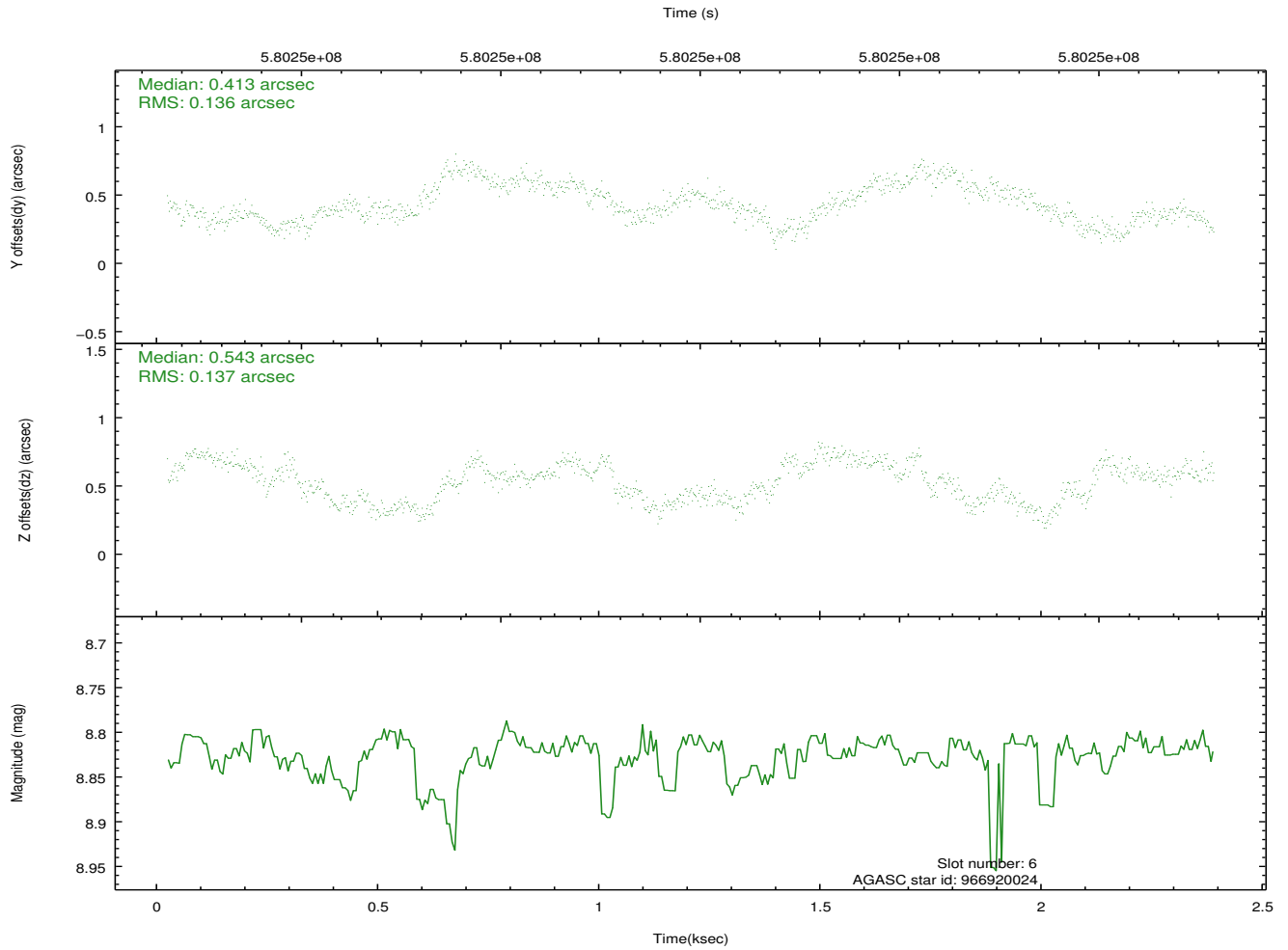
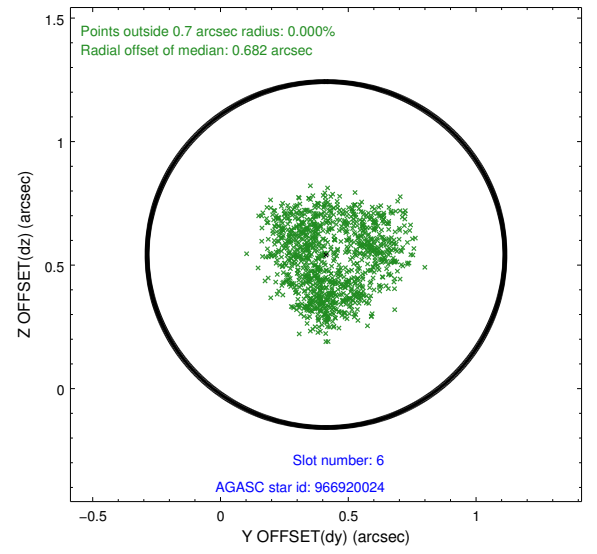
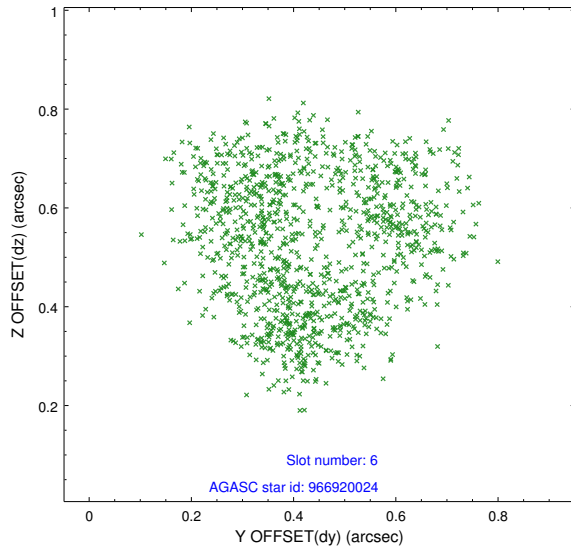
2.4.2 Slot 4



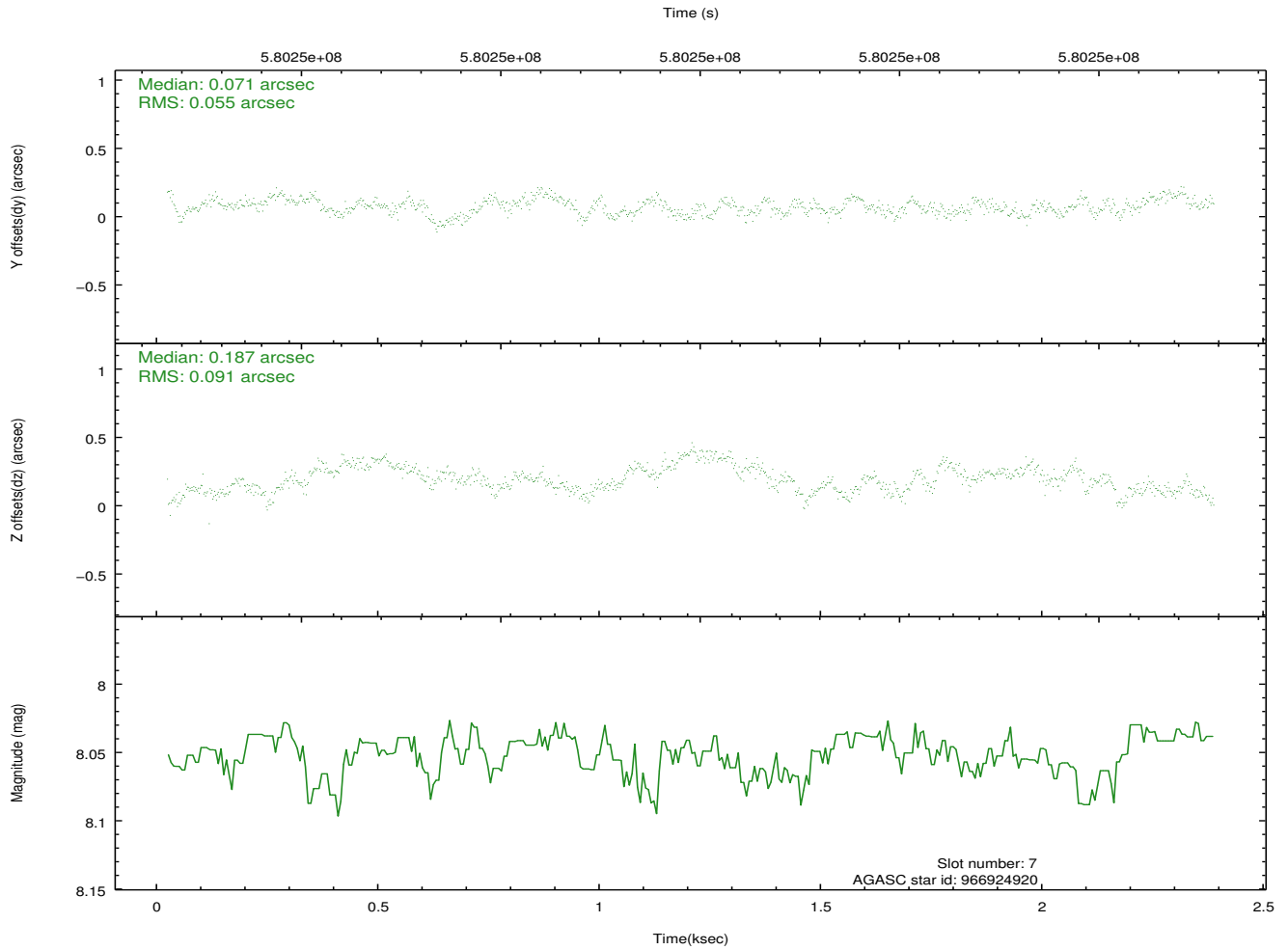
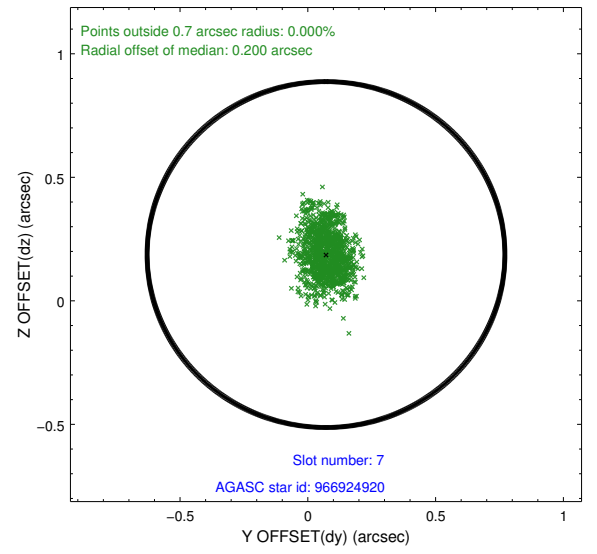
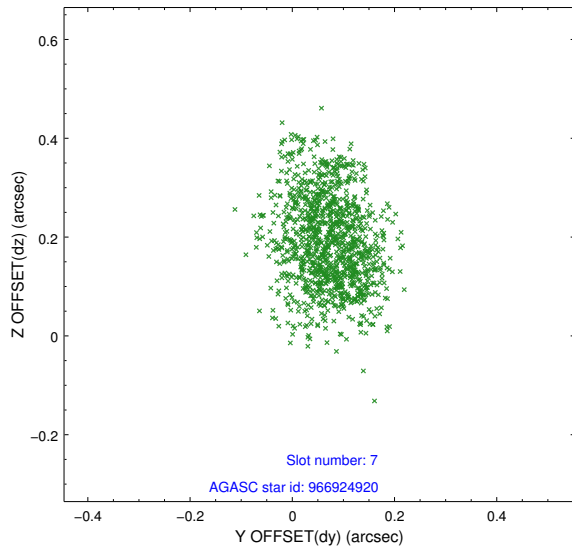
2.4.3 Slot 5



2.4.4 Slot 6

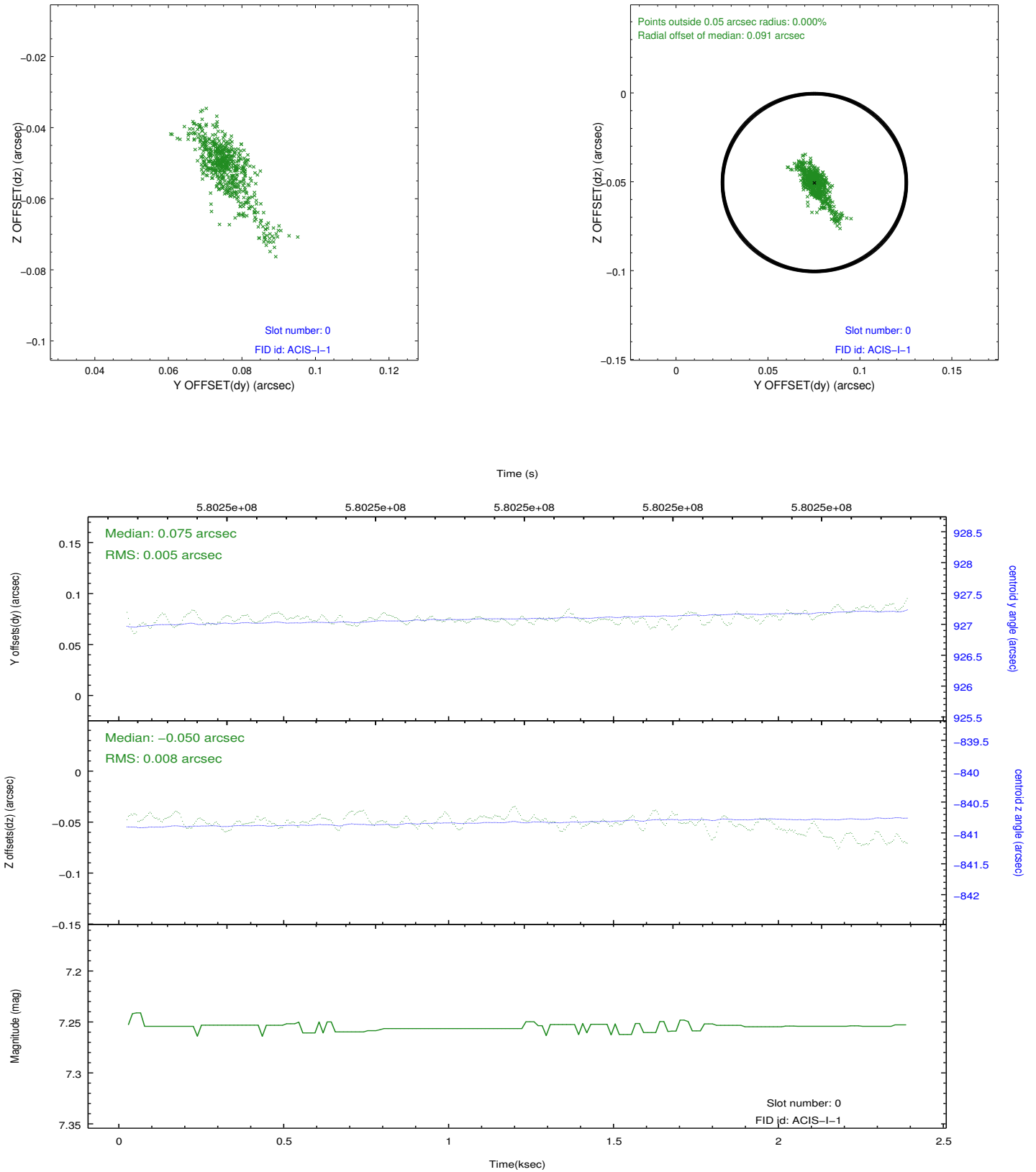


2.4.5 Slot 7

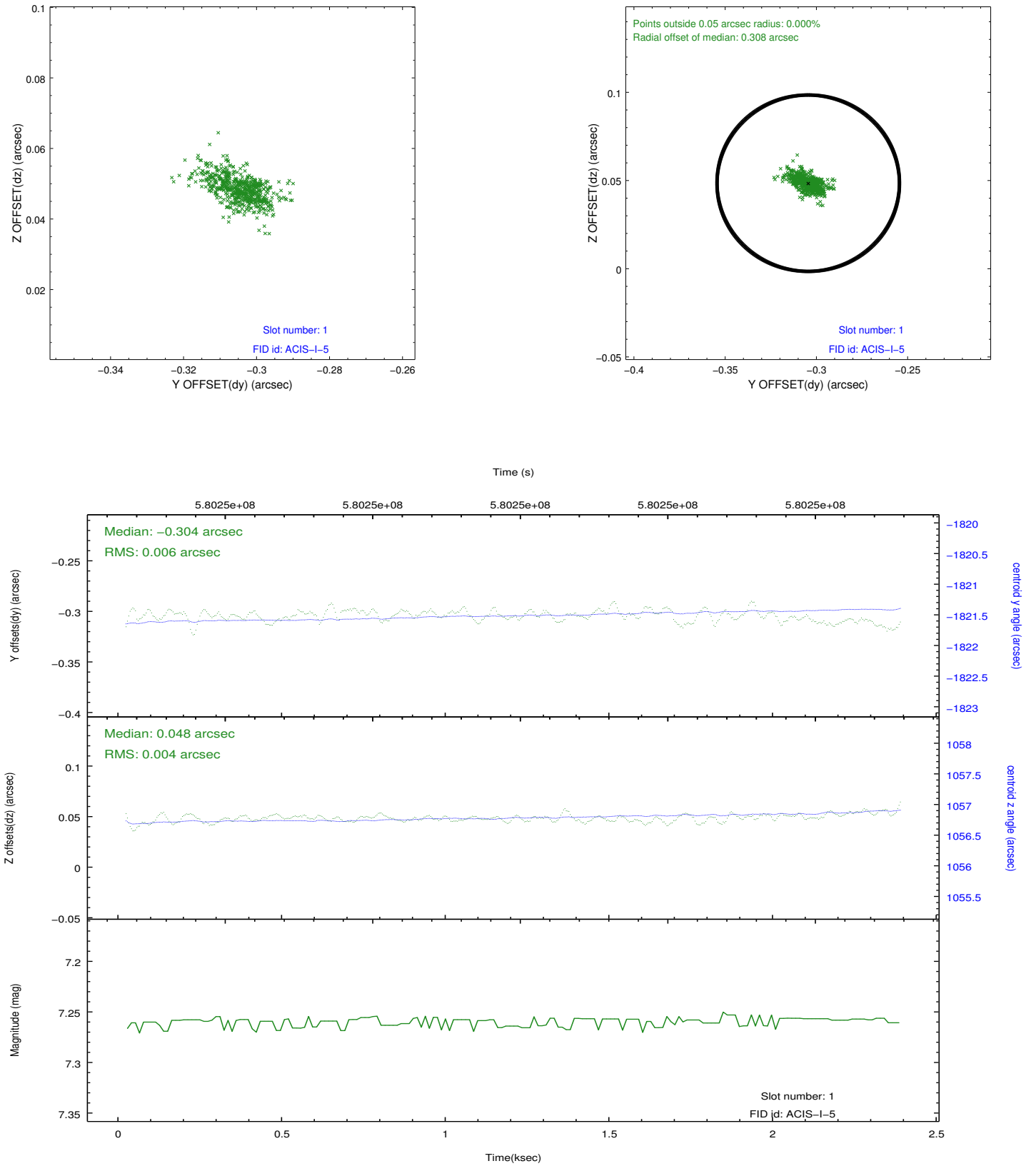


2.5 FID Slots

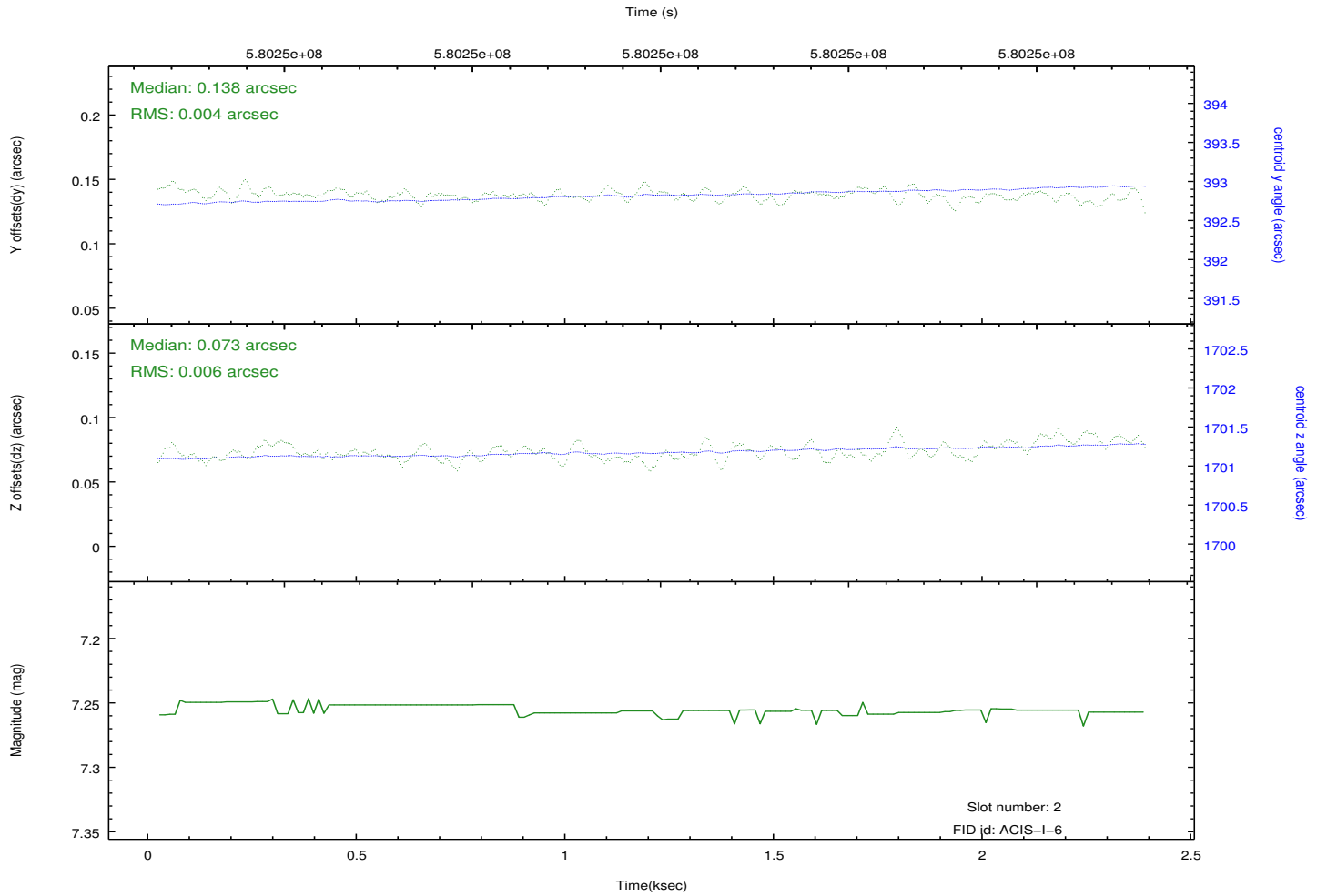
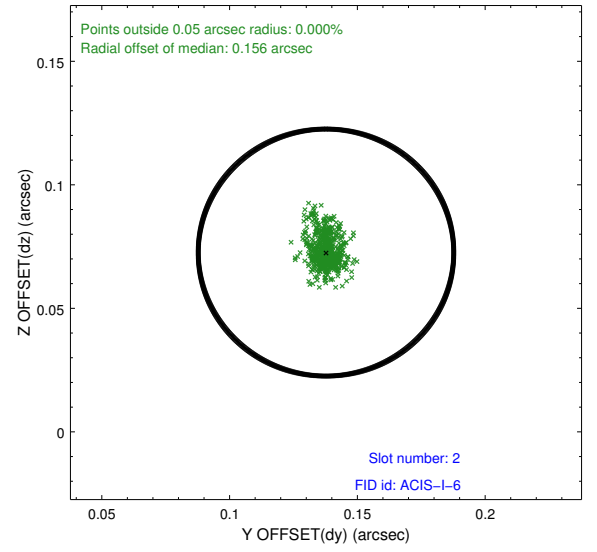
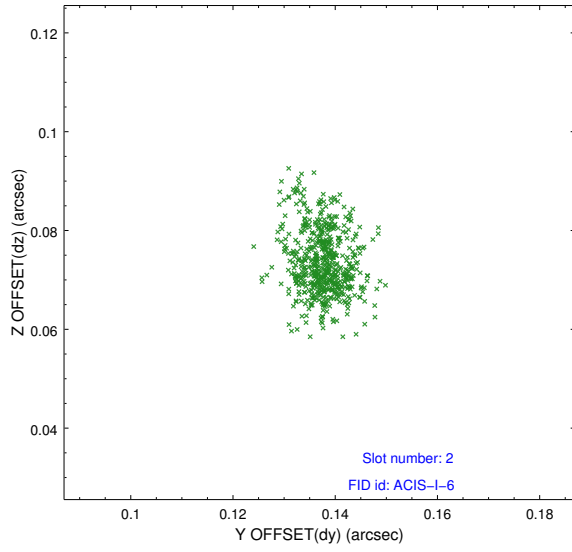
2.5.1 Slot 0



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	1.9556436213255

A.2 Comments