

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18329 - L2 Version 1
Chandra X-Ray Center

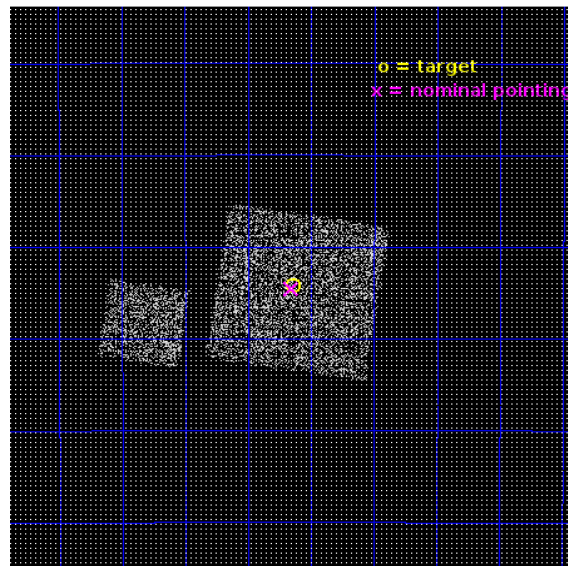
L2 Processing Date : Jul 15 2016

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1 Front

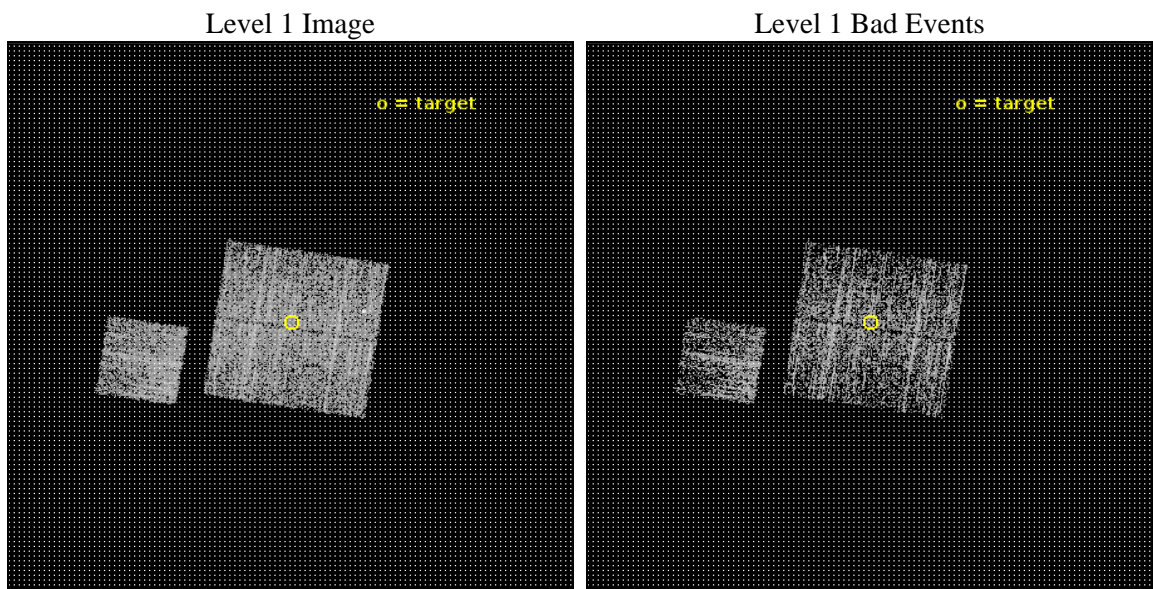
seq_num	300360	Sequence number
obs_id	18329	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.53468	Observer's specified target RA [deg]
dec_targ	-28.40341	Observer's specified target Dec [deg]
ra_nom	266.53894685249	Nominal RA [deg]
dec_nom	-28.409427271942	Nominal Dec [deg]
roll_nom	278.91504904684	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.4882990122	Sum of GTIs [s]
livetime	1929.938404776	Livetime [s]
ontime0	1955.3651690483	Sum of GTIs [s]
ontime1	1955.406208992	Sum of GTIs [s]
ontime2	1955.4472490549	Sum of GTIs [s]
ontime3	1955.4882990122	Sum of GTIs [s]
ontime6	1955.3241289854	Sum of GTIs [s]
l2events	7382	Number of level 2 events



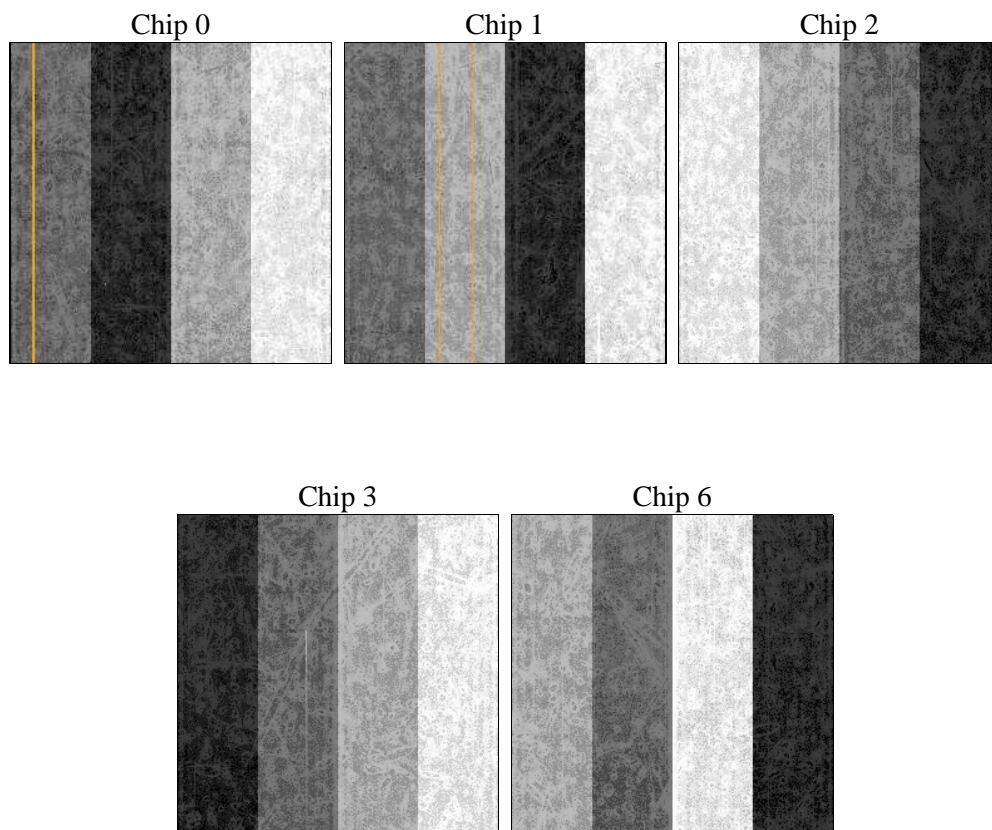
2 OBI

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	10.5	Processing system revision	ontime	1955.4882990122	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1955.3651690483	Sum of GTIs [s]
date	2016-07-16T03:28:09	Date and time of file creation	ontime1	1955.406208992	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.4472490549	Sum of GTIs [s]
			ontime3	1955.4882990122	Sum of GTIs [s]
			ontime6	1955.3241289854	Sum of GTIs [s]
			l1events	59120	Number of level 1 events

2.1.4 Events

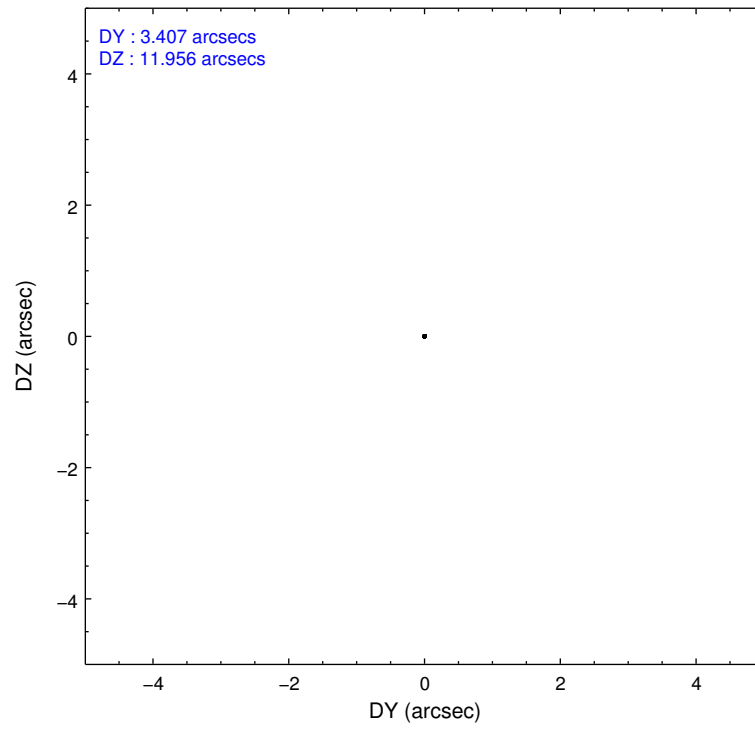
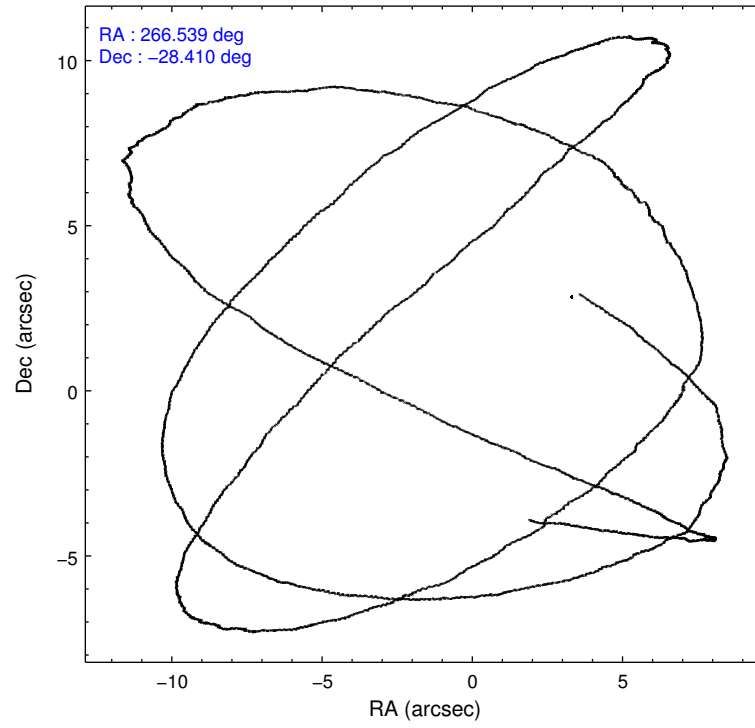
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11023	12067	12638	11458	11934
rejected events	9354	9689	10902	9892	10281
rejected %	84%	80%	86%	86%	86%

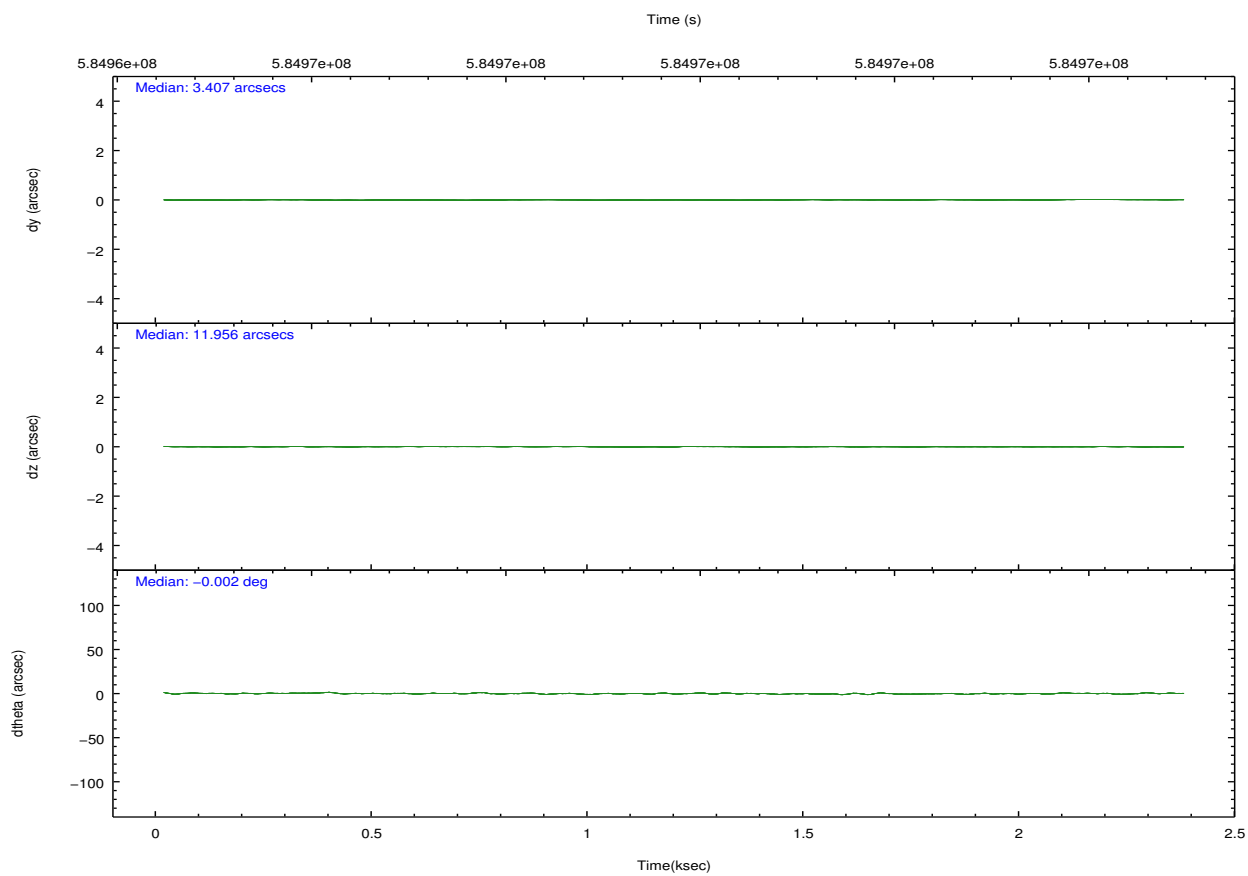
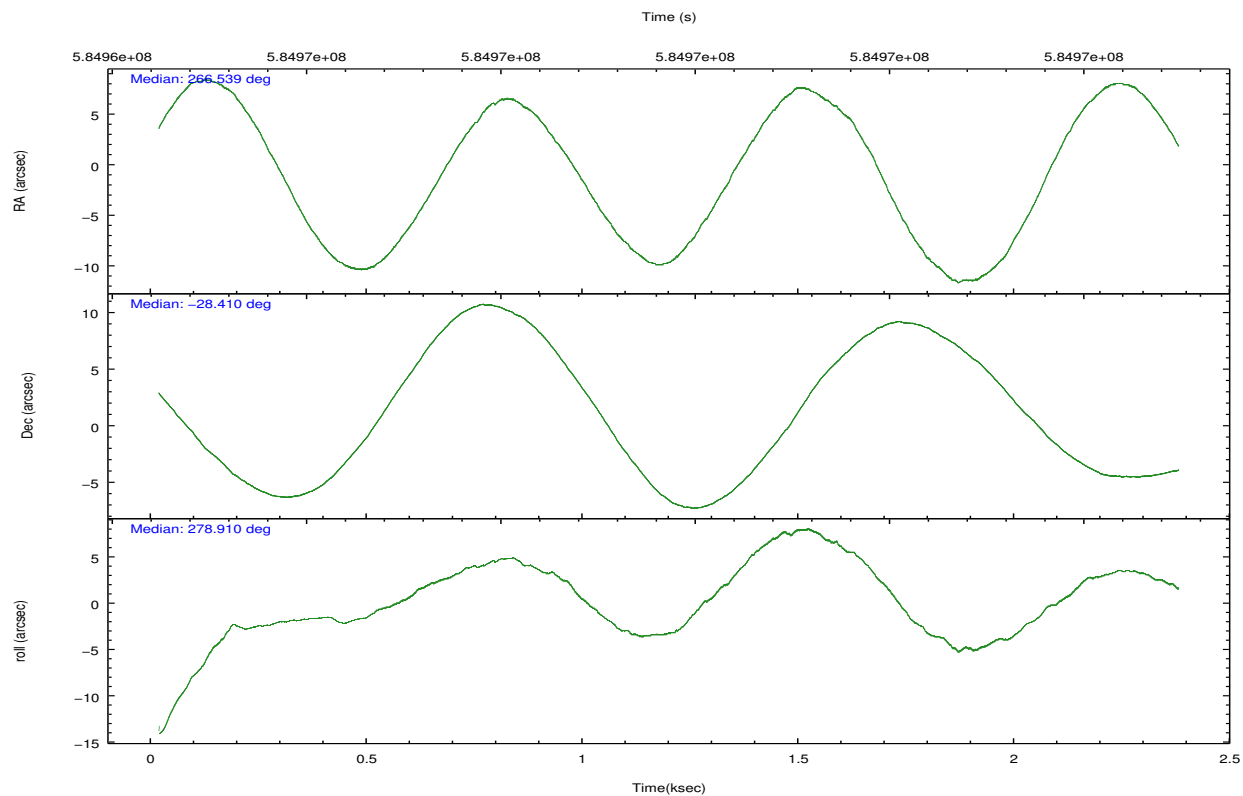
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	687	1269	796	680	592
	6%	10%	6%	5%	4%
grade 1 events	14	12	8	5	6
	0%	0%	0%	0%	0%
grade 2 events	373	400	335	322	374
	3%	3%	2%	2%	3%
grade 3 events	154	170	158	140	171
	1%	1%	1%	1%	1%
grade 4 events	152	177	153	149	149
	1%	1%	1%	1%	1%
grade 5 events	549	563	507	642	616
	4%	4%	4%	5%	5%
grade 6 events	305	364	302	278	369
	2%	3%	2%	2%	3%
grade 7 events	8789	9112	10379	9242	9657
	79%	75%	82%	80%	80%

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	266.518827	266.538946852488	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.387814	-28.40942727194169	CCD I3 on	Y	Y
[deg] Pointing Roll	278.696770	278.915049046844	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)	584965450.184000	584965073.81924	CCD S5 on	N	N
Observation start date	2016-07-15T10:23:02	2016-07-15T10:17:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584967630.184000	584967764.4443901	On-chip summing requested	N	N
Observation end date	2016-07-15T10:59:22	2016-07-15T11:02:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



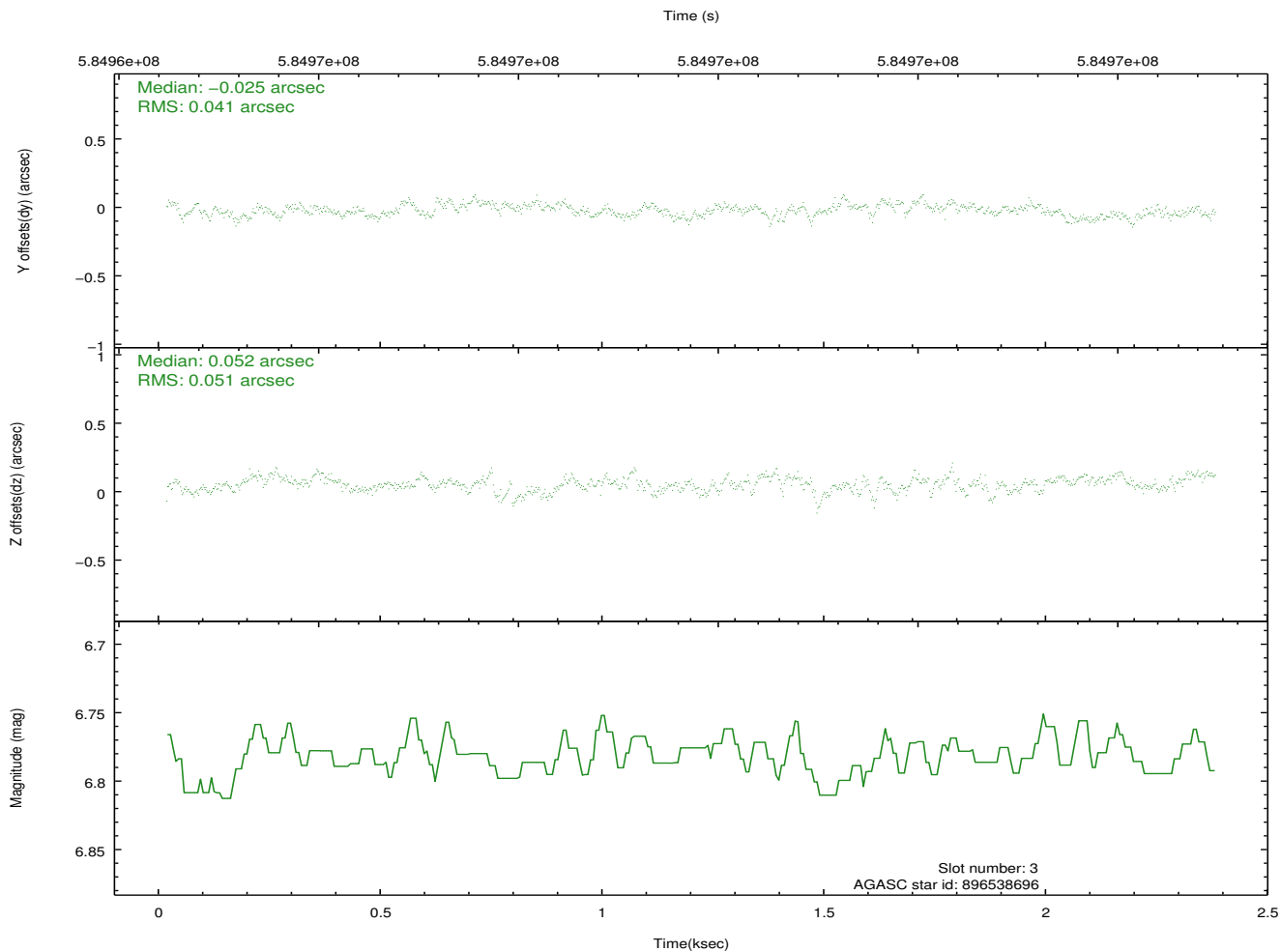
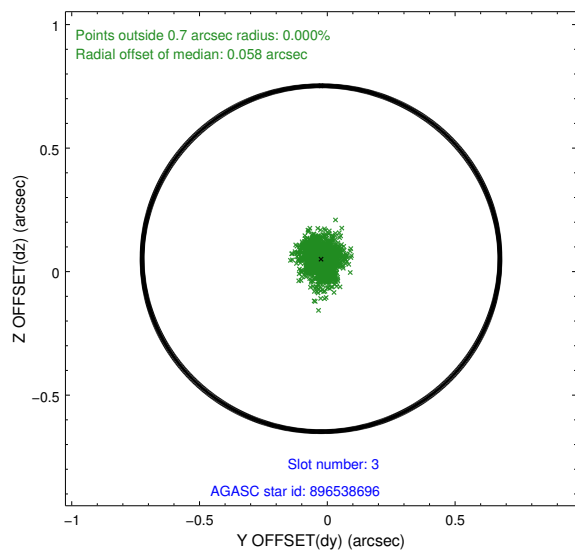
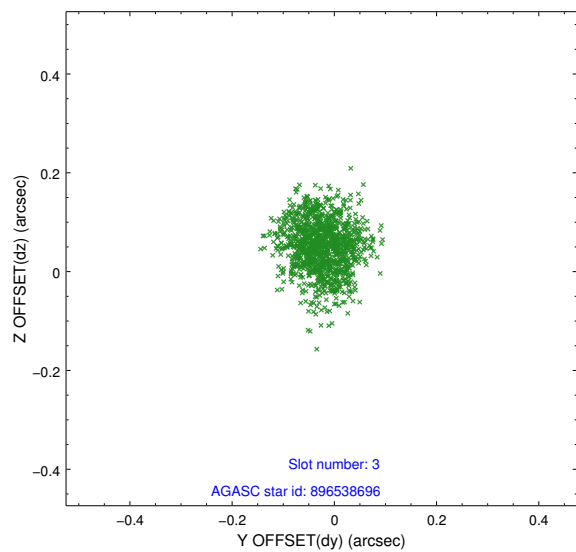


Slot Statistics

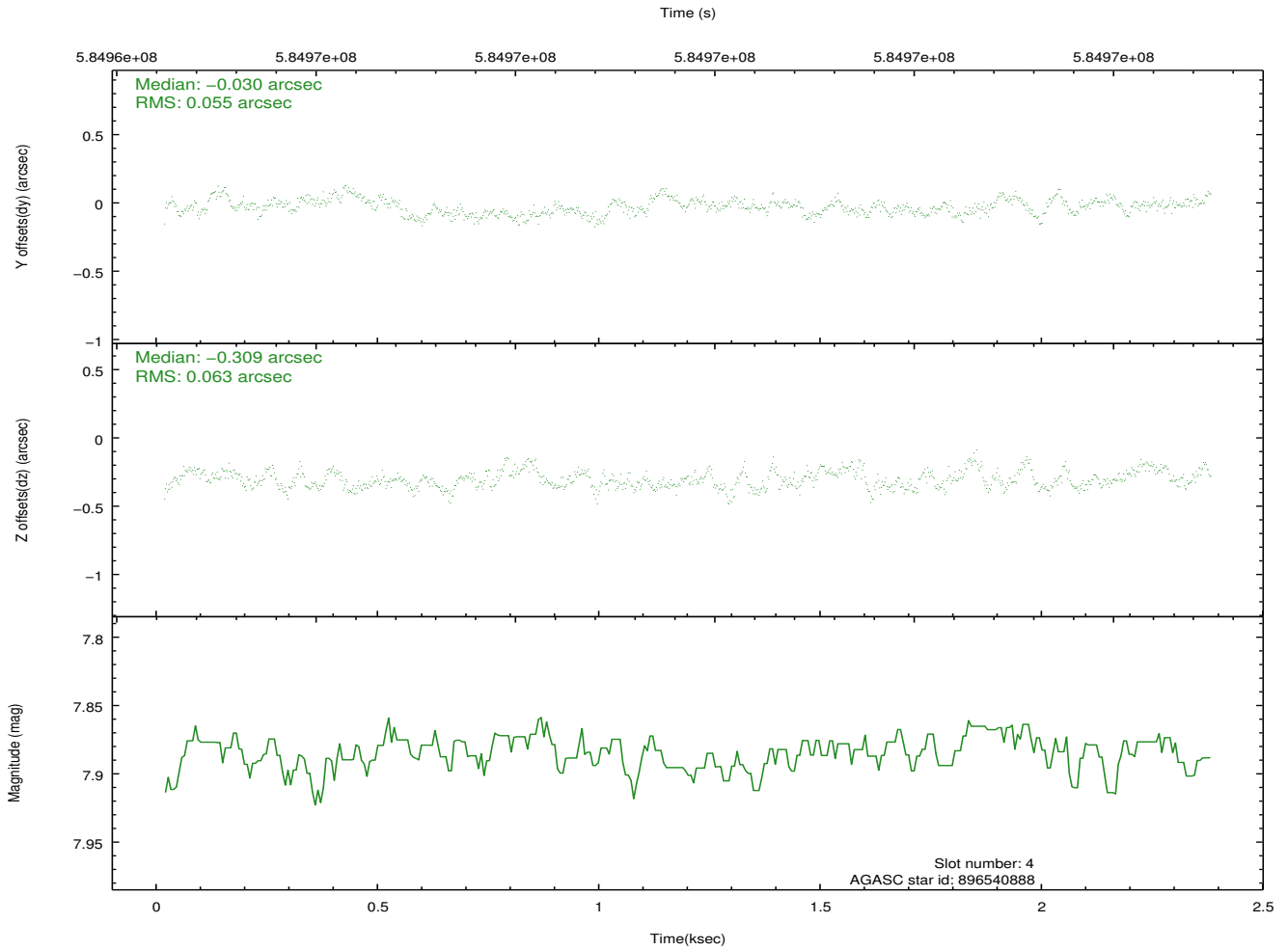
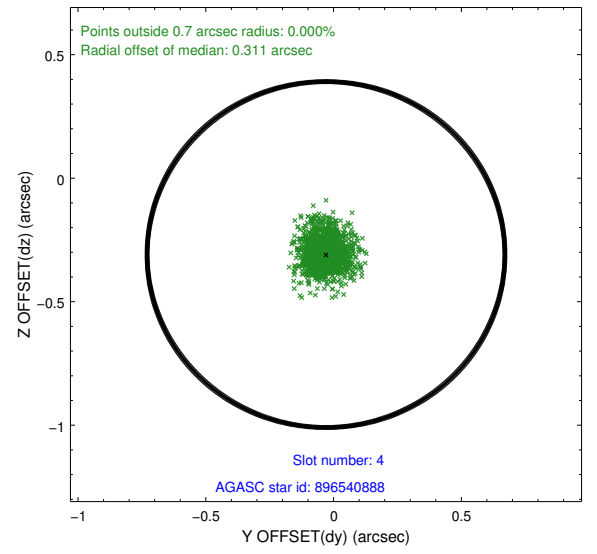
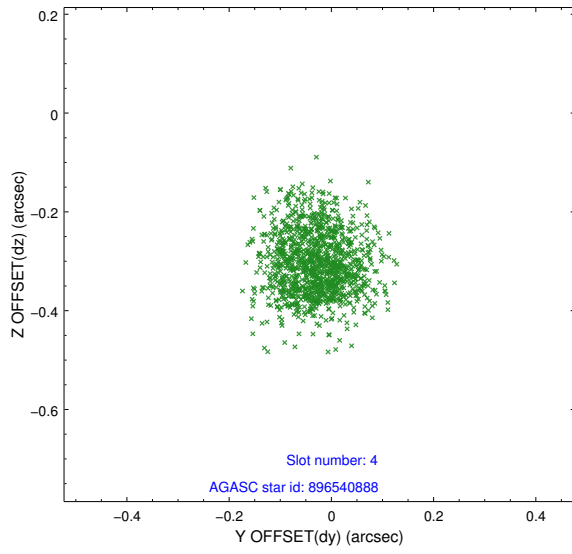
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	577	0.125	-0.094	0.006	0.011	0.000000	0.000000	936.50	-835.57
1	FID		ACIS-I-5	7.22	577	-0.252	0.110	0.006	0.010	0.000000	0.000000	-1810.47	1060.73
2	FID		ACIS-I-6	7.24	577	0.036	0.053	0.007	0.011	0.000000	0.000000	398.96	1708.31
3	GUIDE	used	896538696	6.78	1154	-0.025	0.052	0.070	0.112	266.298470	-28.325572	-327.01	-657.35
4	GUIDE	used	896540888	7.88	1154	-0.030	-0.309	0.088	0.144	267.212234	-28.246138	-166.52	2248.12
5	GUIDE	used	895879608	8.92	1154	-0.078	0.073	0.103	0.164	265.708239	-27.843915	-2317.86	-2255.01
6	GUIDE	used	896402656	8.82	1154	0.249	0.309	0.098	0.156	265.739192	-28.230753	-927.11	-2362.72
7	GUIDE	used	896541576	8.14	1152	-0.118	-0.128	0.078	0.128	267.051055	-28.762912	1590.87	1452.68

2.4 Star Slots

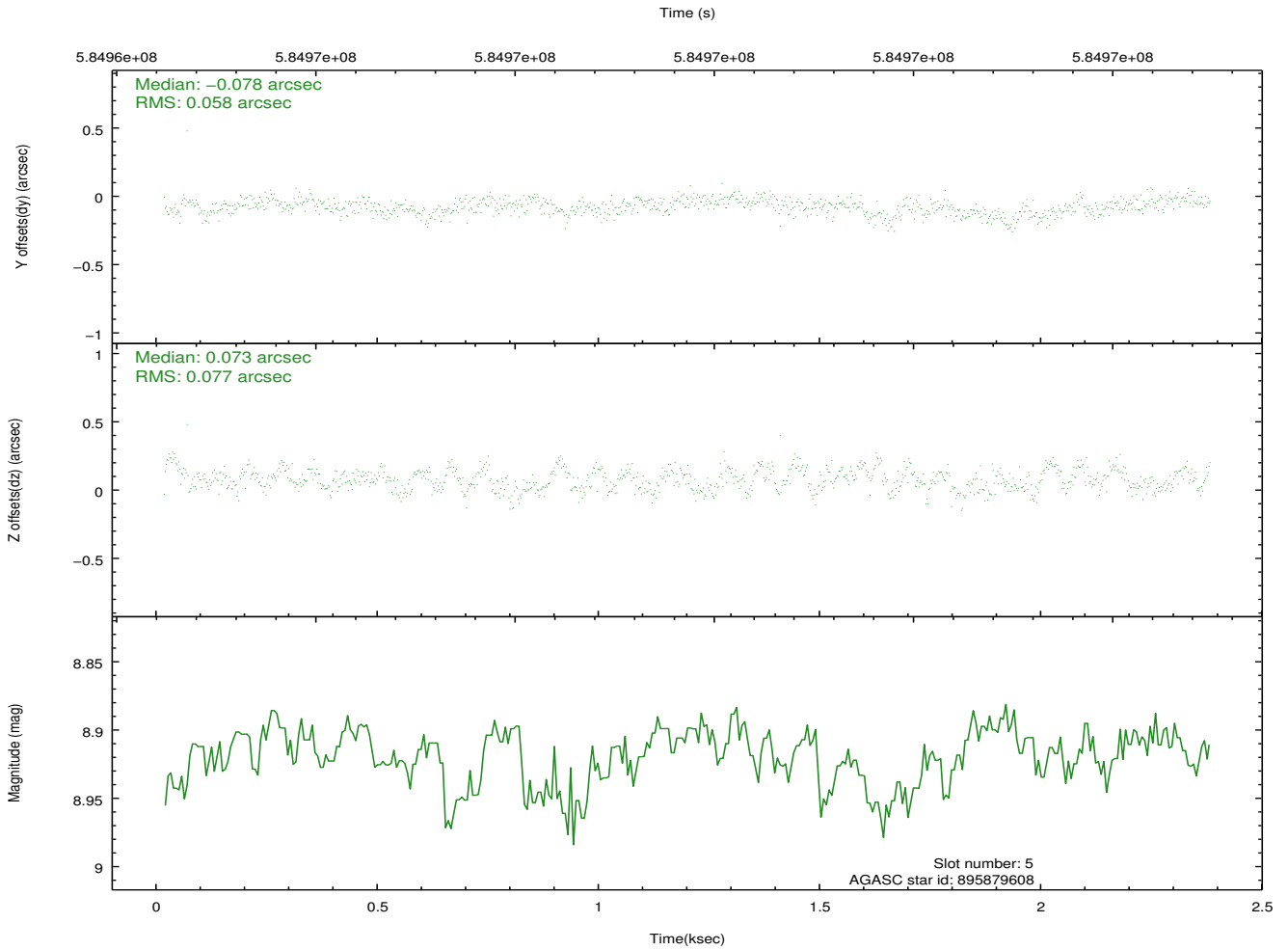
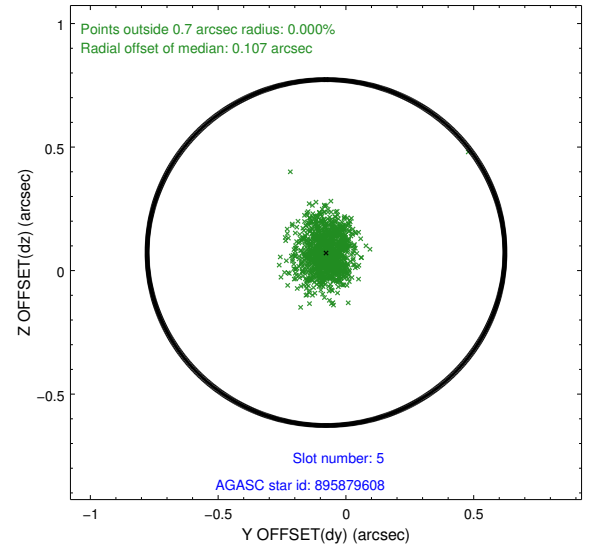
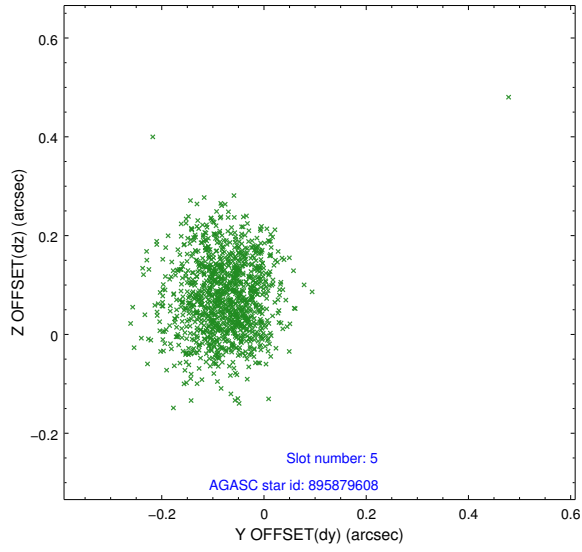
2.4.1 Slot 3



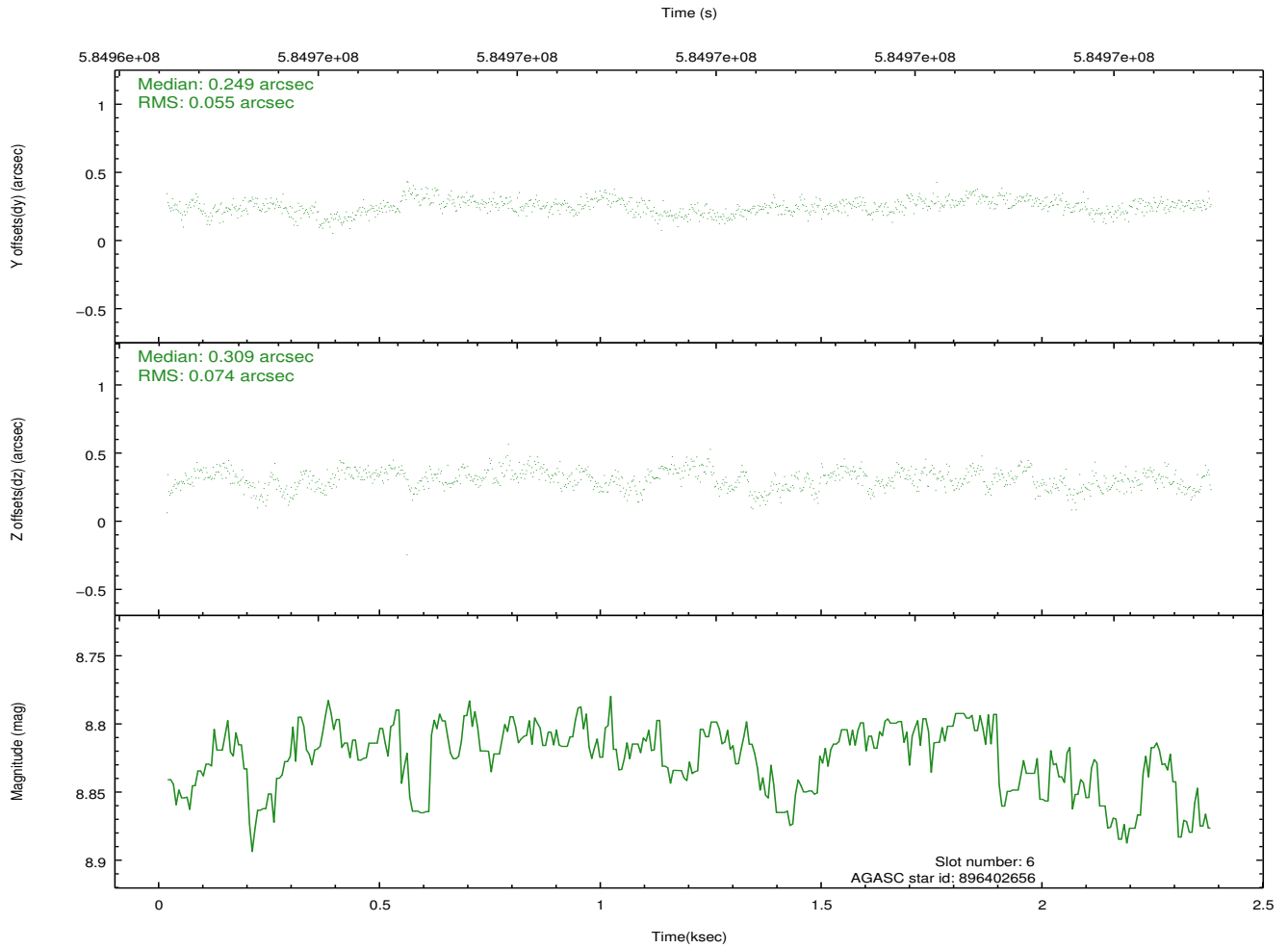
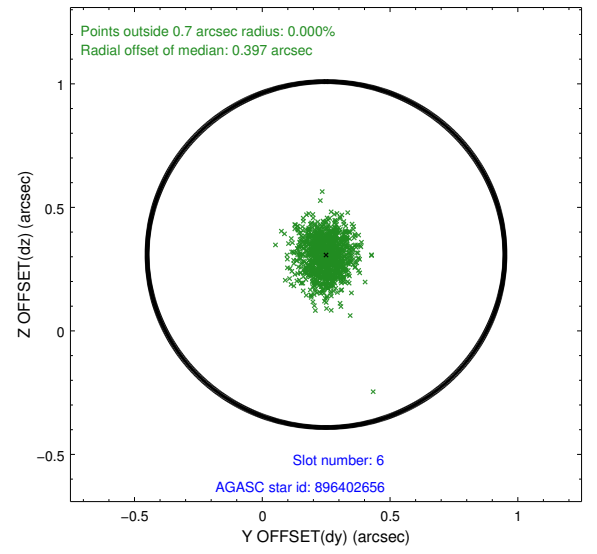
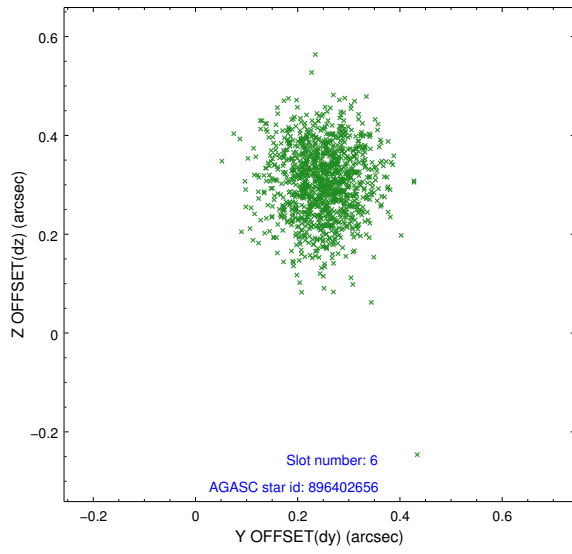
2.4.2 Slot 4



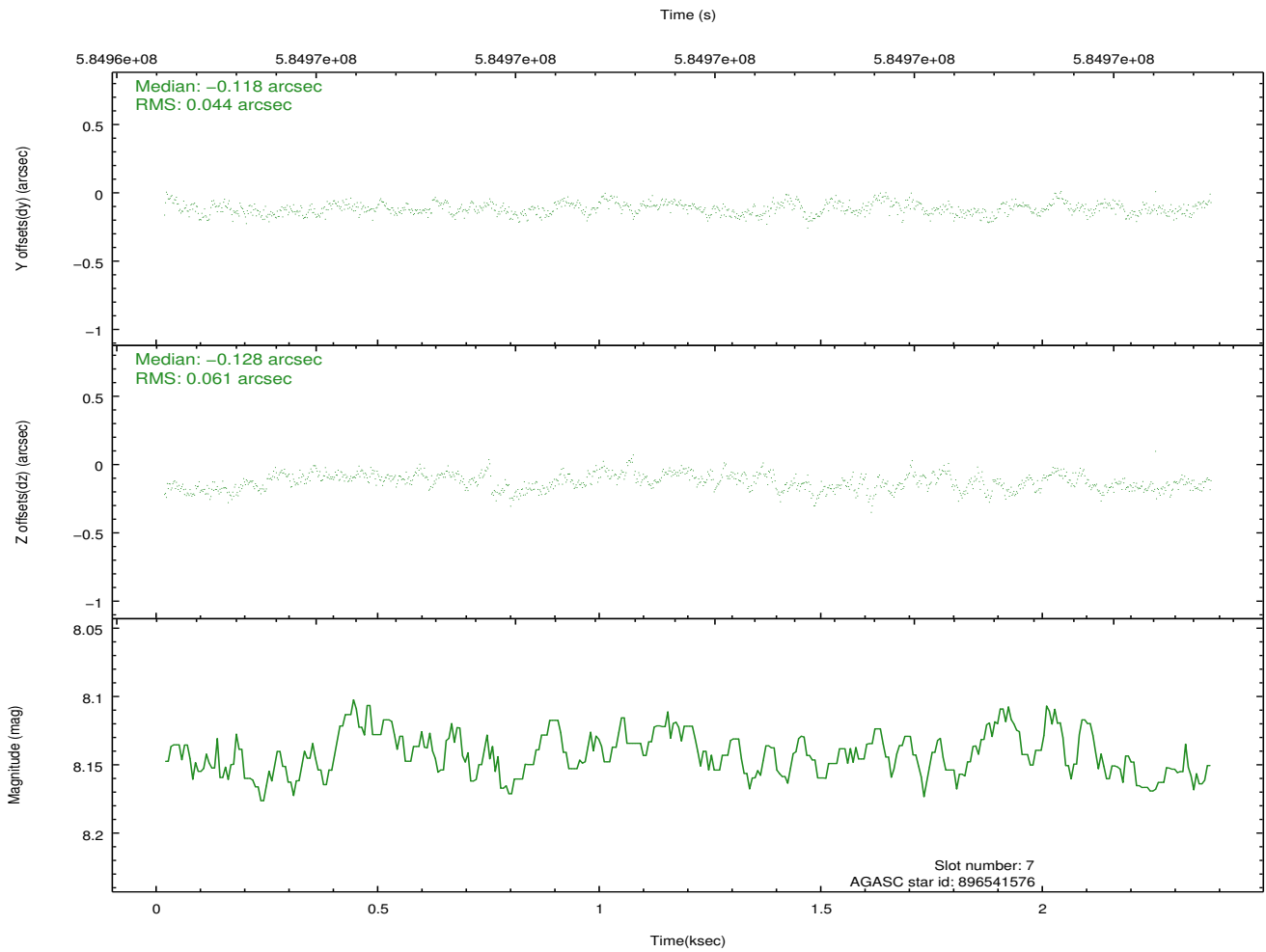
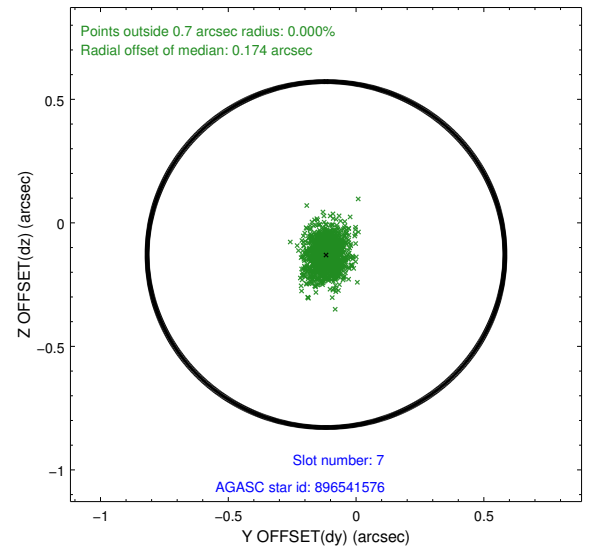
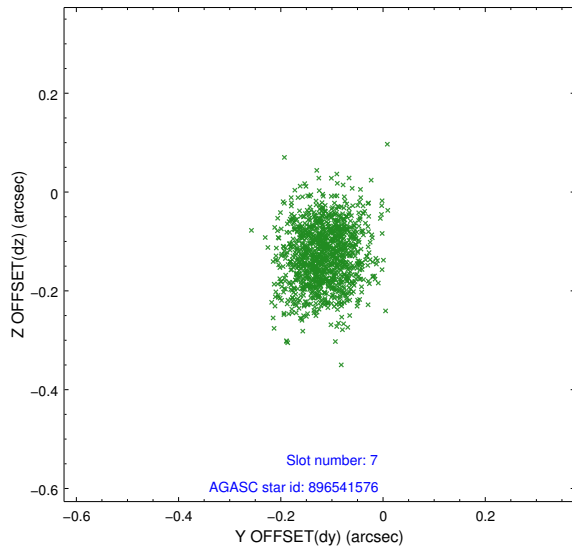
2.4.3 Slot 5



2.4.4 Slot 6

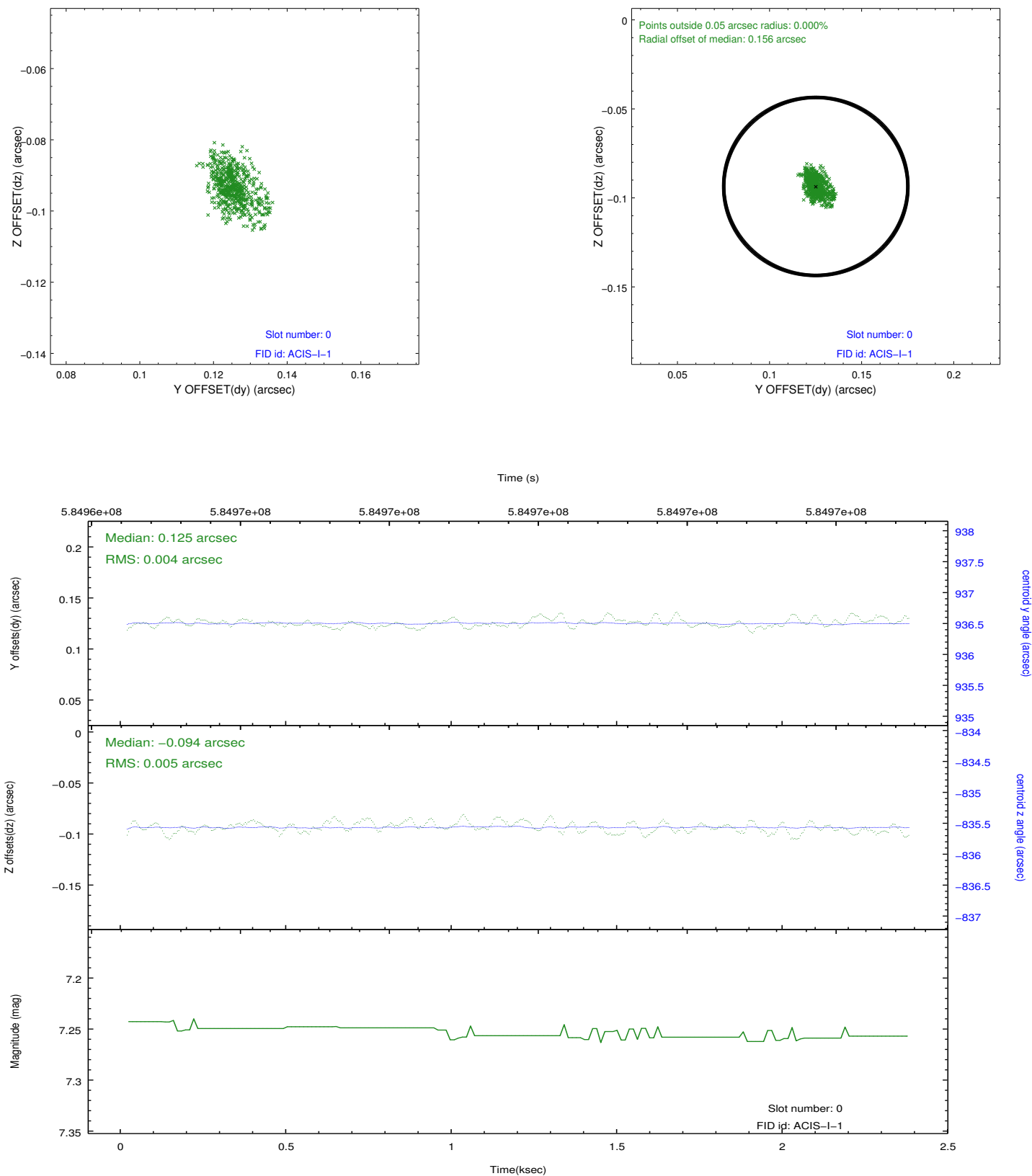


2.4.5 Slot 7

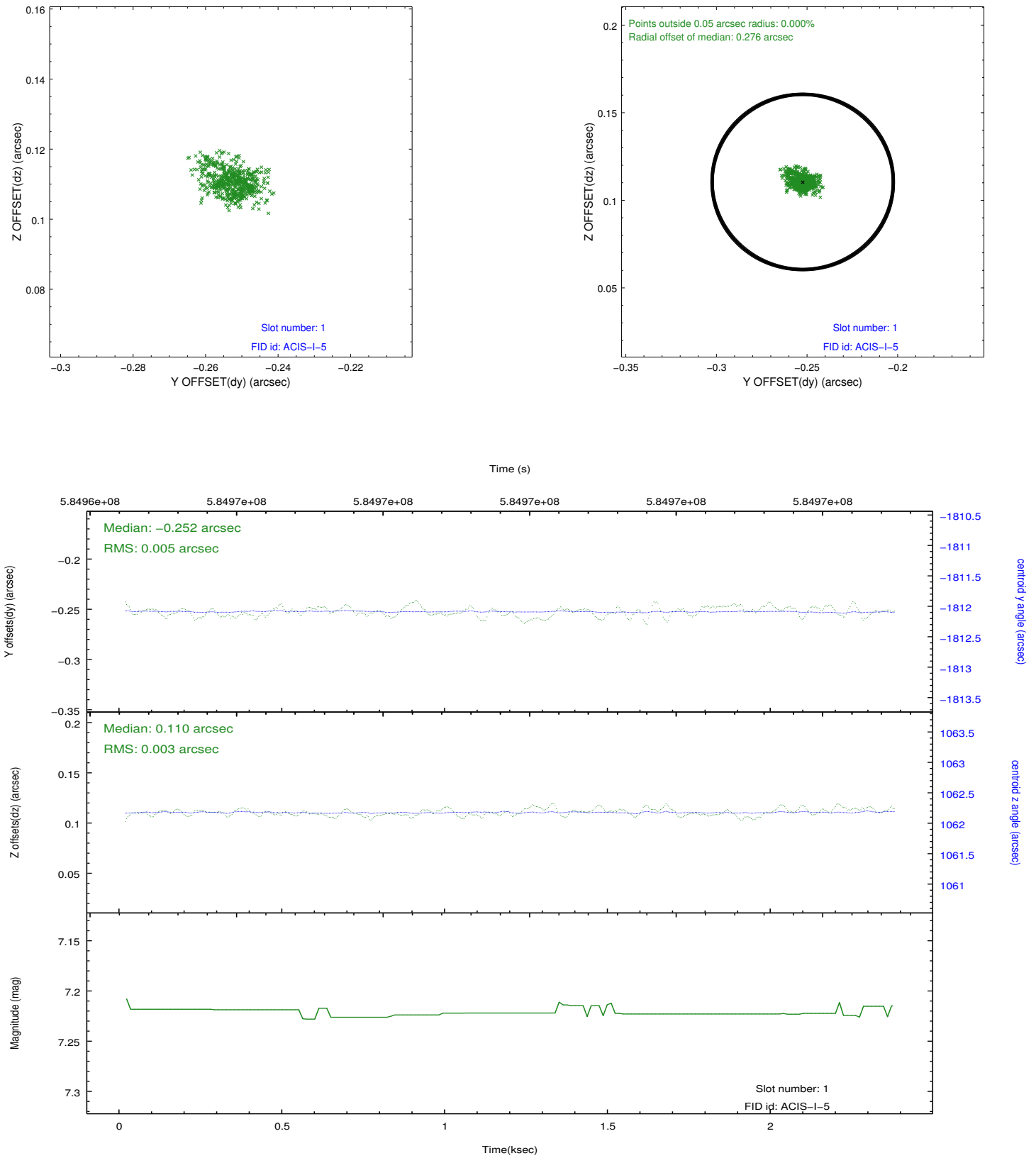


2.5 FID Slots

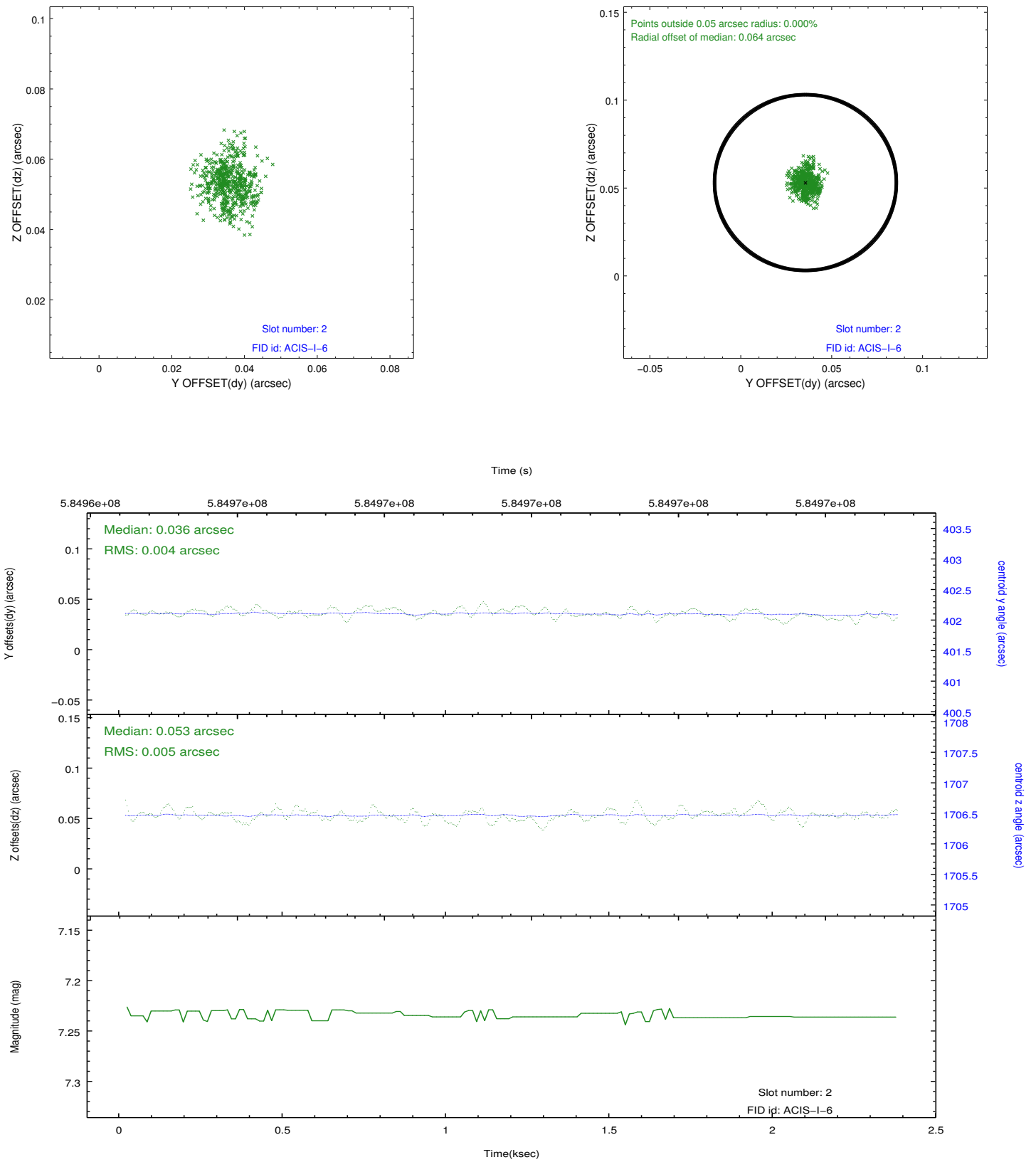
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9554882990122

A.2 Comments