

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21611 - L2 Version 1
Chandra X-Ray Center

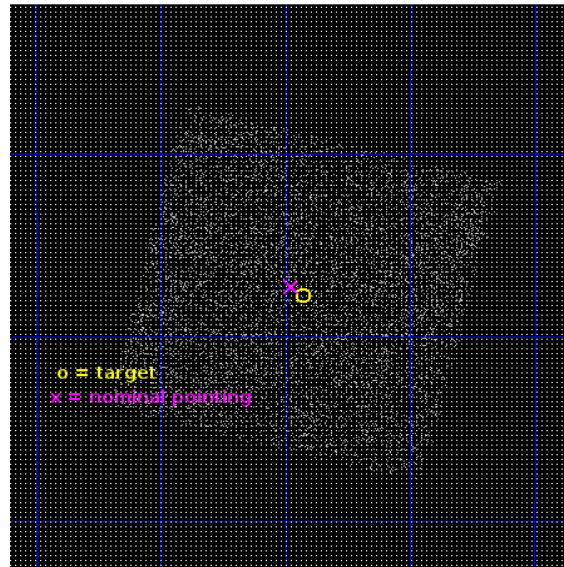
L2 Processing Date : Jul 8 2019

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1 Front

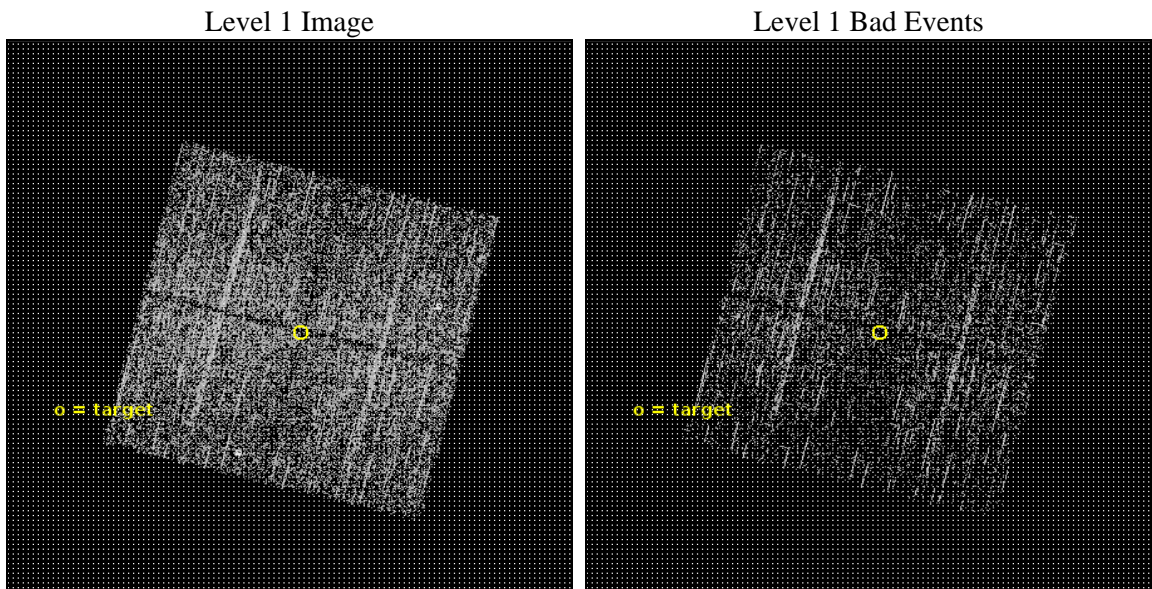
seq_num	300443	Sequence number
obs_id	21611	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.48198	Observer's specified target RA [deg]
dec_targ	-29.463195	Observer's specified target Dec [deg]
ra_nom	265.49405699358	Nominal RA [deg]
dec_nom	-29.454536835558	Nominal Dec [deg]
roll_nom	284.21464659312	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3064236641	Sum of GTIs [s]
livetime	1883.3729953642	Livetime [s]
ontime0	1908.1833037138	Sum of GTIs [s]
ontime1	1908.2243537903	Sum of GTIs [s]
ontime2	1908.2653938532	Sum of GTIs [s]
ontime3	1908.3064236641	Sum of GTIs [s]
l2events	6026	Number of level 2 events



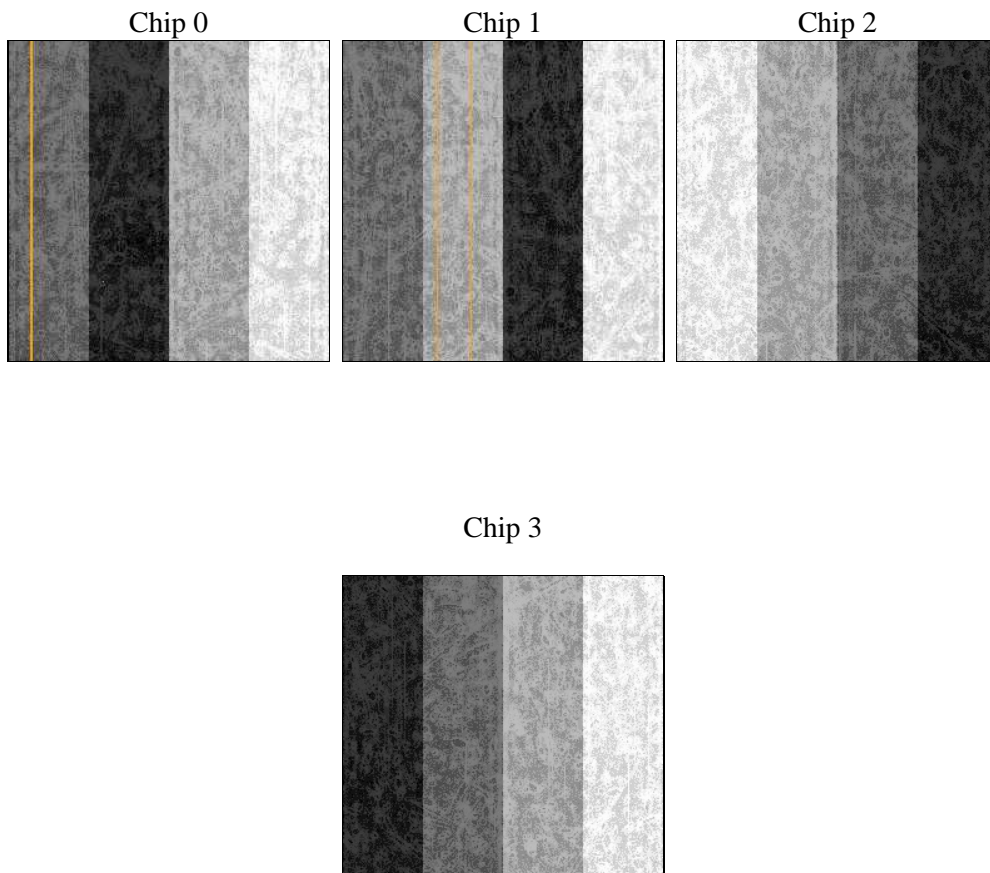
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.3064236641	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.1833037138	Sum of GTIs [s]
date	2019-07-08T11:17:10	Date and time of file creation	ontime1	1908.2243537903	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.2653938532	Sum of GTIs [s]
			ontime3	1908.3064236641	Sum of GTIs [s]
			l1events	59294	Number of level 1 events

2.1.4 Events

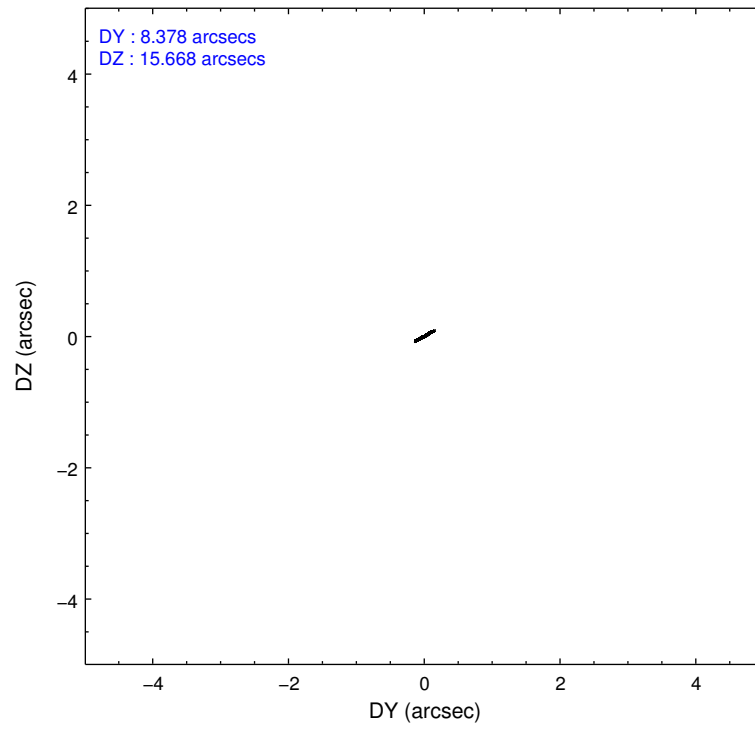
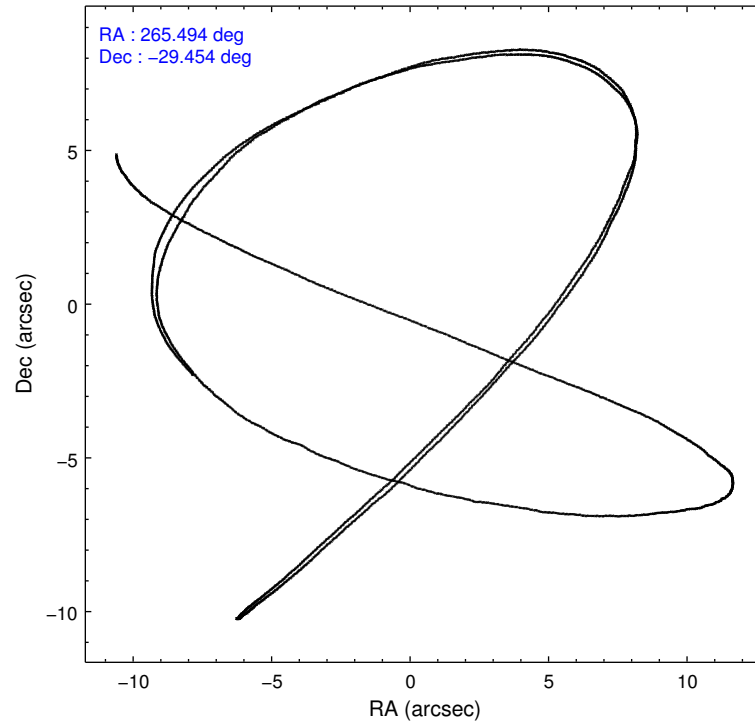
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14090	14251	15746	15207
rejected events	12325	11921	13532	13560
rejected %	87%	83%	85%	89%

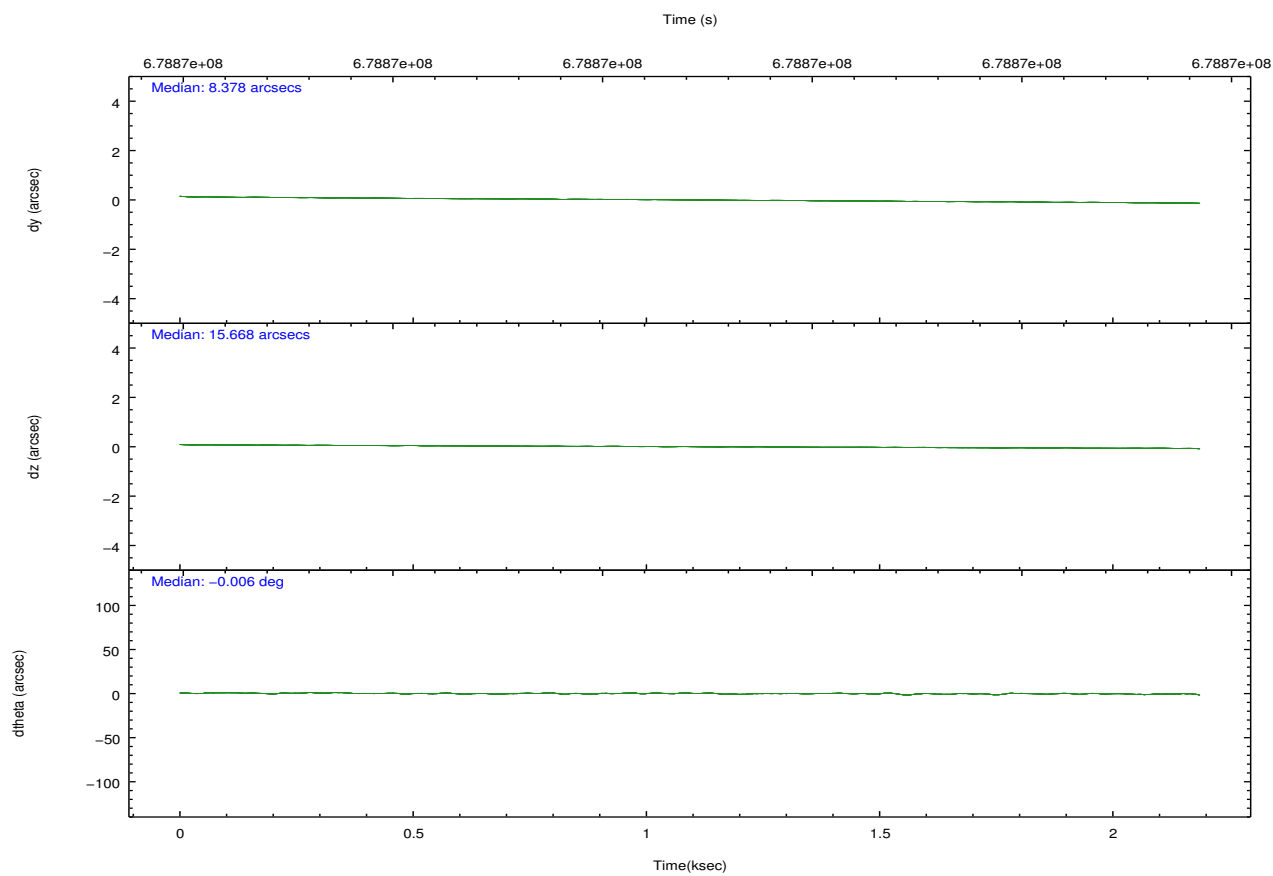
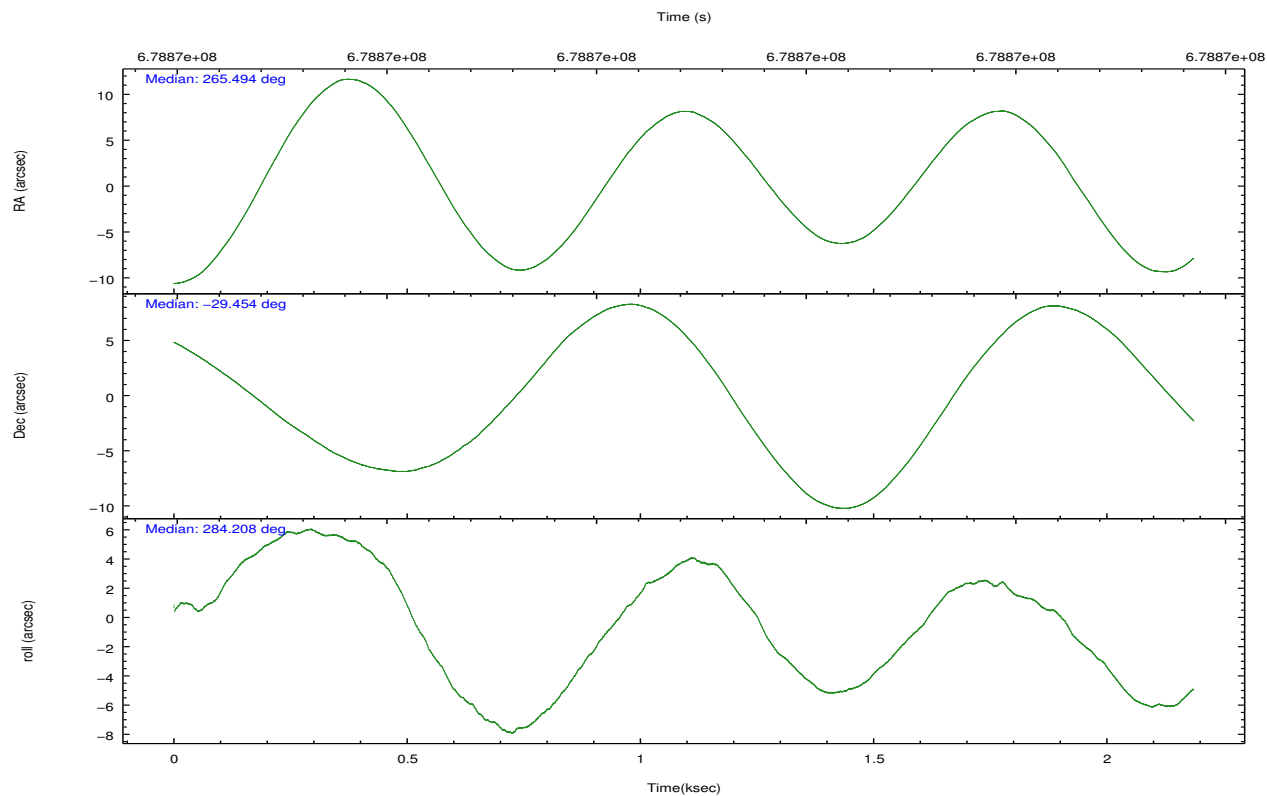
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	637	1051	1114	595
	4%	7%	7%	3%
grade 1 events	9	13	14	4
	0%	0%	0%	0%
grade 2 events	420	510	437	369
	2%	3%	2%	2%
grade 3 events	158	158	167	158
	1%	1%	1%	1%
grade 4 events	186	164	180	164
	1%	1%	1%	1%
grade 5 events	649	675	630	741
	4%	4%	4%	4%
grade 6 events	376	450	318	363
	2%	3%	2%	2%
grade 7 events	11655	11230	12886	12813
	82%	78%	81%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	265.471924	265.4940569935787	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.434906	-29.45453683555822	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995061	284.2146465931189	[s] Primary exposure time	0.000000	3.1
[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)	678869315.184000	678868939.46811			
Observation start date	2019-07-07T06:47:26	2019-07-07T06:42:19			
[s] Observation end time (MET)	678871315.184000	678871449.69326			
Observation end date	2019-07-07T07:20:46	2019-07-07T07:24:09			
Read mode	TIMED	TIMED			

2.3 Aspect



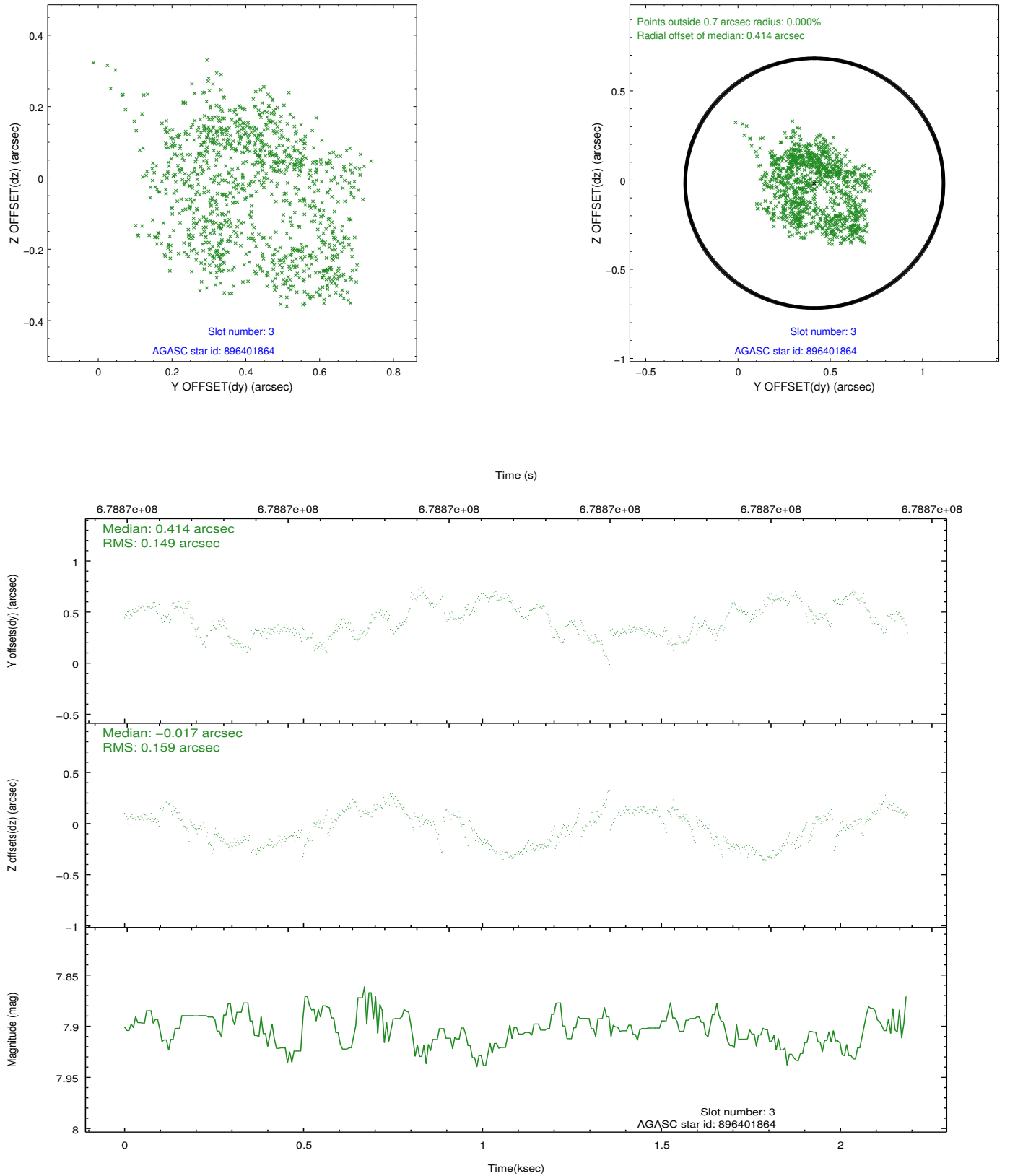


Slot Statistics

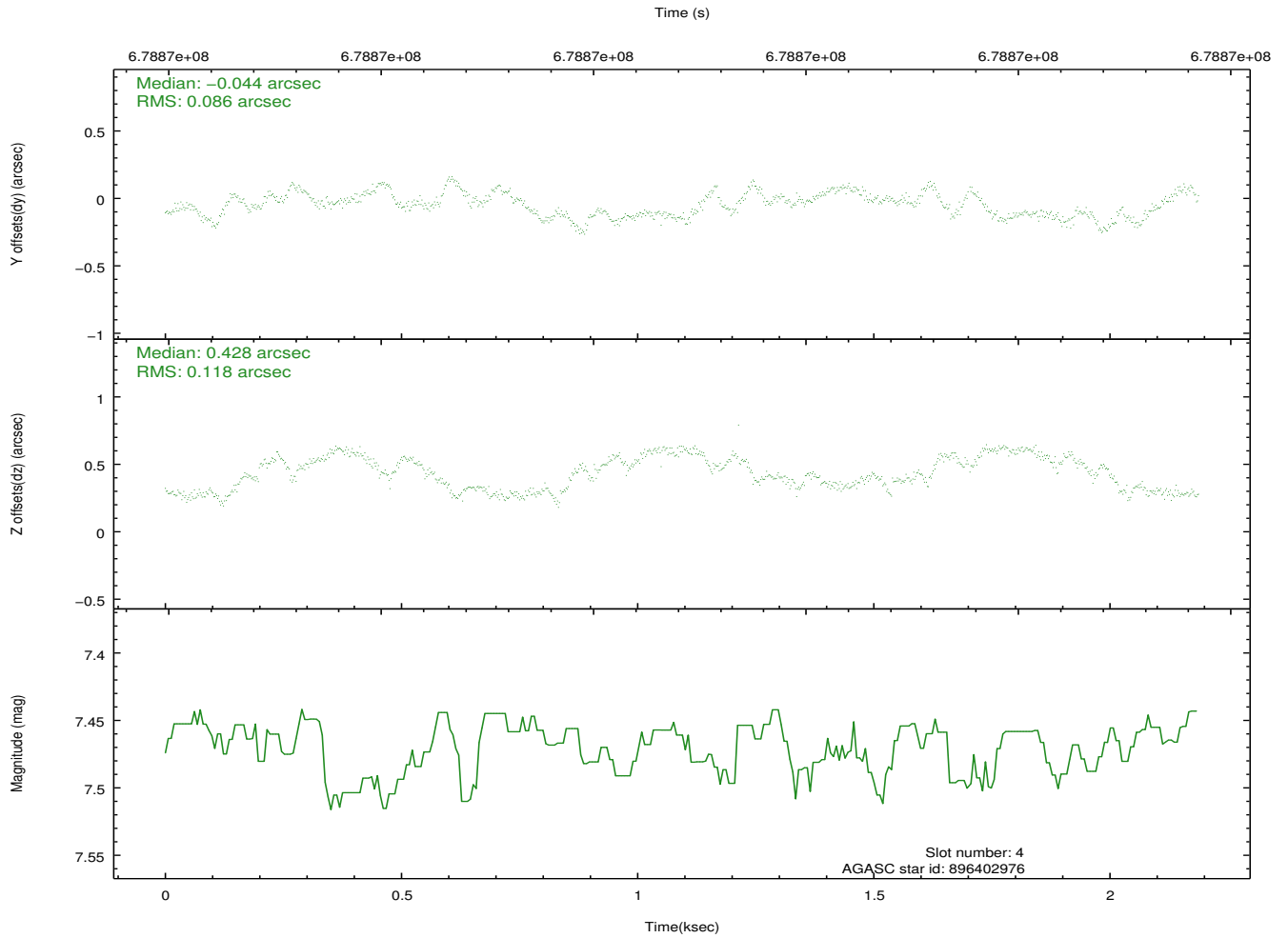
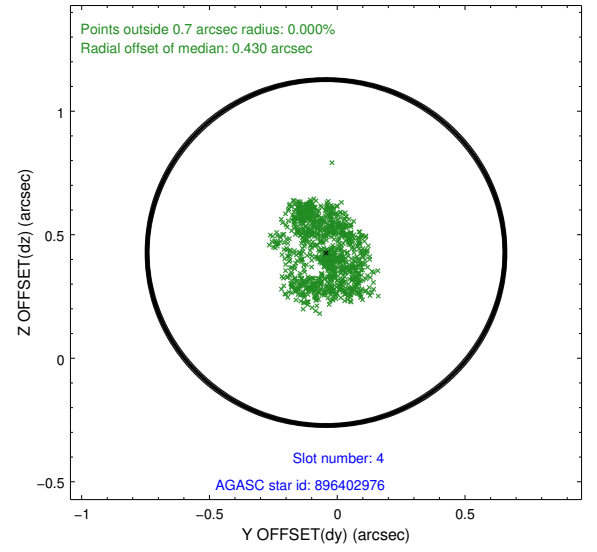
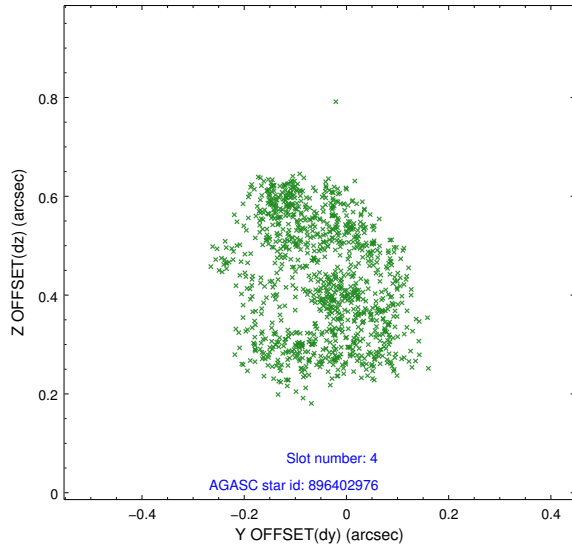
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	534	1.000	0.113	-0.165	0.006	0.011	0.000000	0.000000	931.44	-839
1	FID		ACIS-I-5	7.15	534	1.000	-0.454	0.020	0.006	0.010	0.000000	0.000000	-1815.72	1056
2	FID		ACIS-I-6	7.13	534	1.000	0.250	0.216	0.006	0.010	0.000000	0.000000	393.70	1704
3	GUIDE	used	896401864	7.90	1068	1.000	0.414	-0.017	0.239	0.346	264.861768	-29.959752	1379.45	-2304
4	GUIDE	used	896402976	7.47	1067	1.000	-0.044	0.428	0.165	0.216	265.099474	-28.923203	-2067.31	-695
5	GUIDE	used	896403224	8.28	1067	1.000	-0.225	-0.176	0.129	0.199	265.612825	-29.438915	120.05	424
6	GUIDE	used	896404376	6.67	1068	1.000	0.122	0.192	0.104	0.172	264.835179	-29.530972	-140.01	-2019
7	GUIDE	used	896541168	8.10	1066	1.000	-0.272	-0.396	0.125	0.194	266.319970	-29.850801	2102.82	2202

2.4 Star Slots

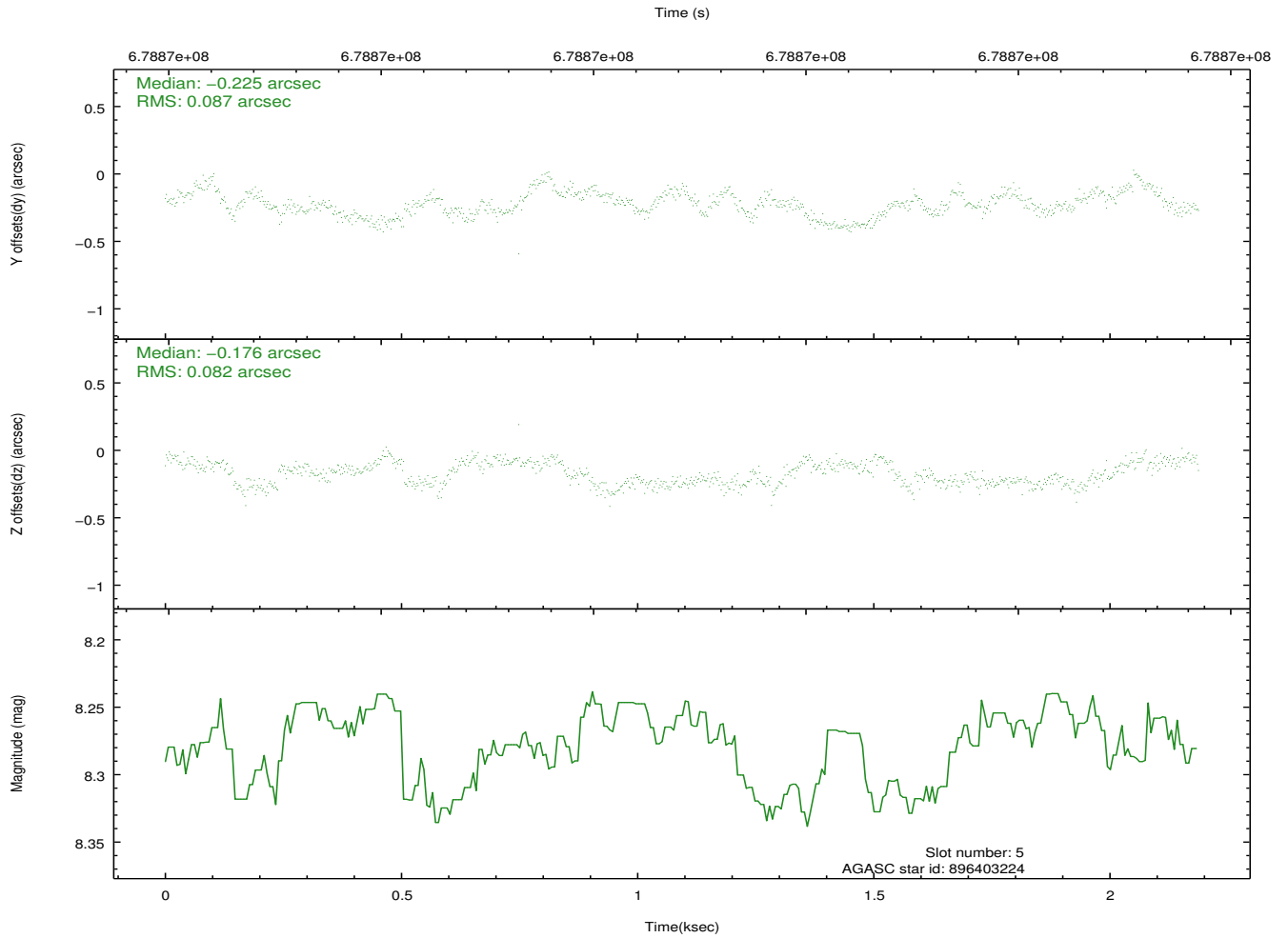
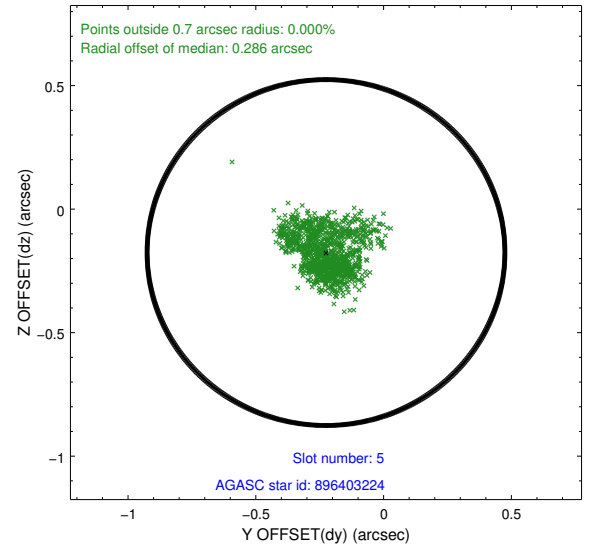
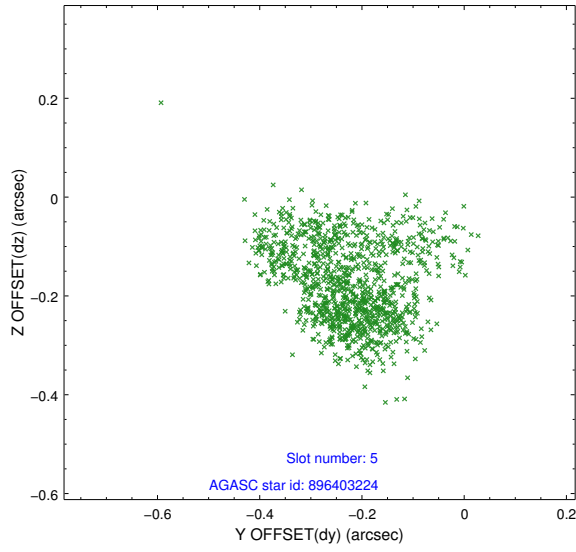
2.4.1 Slot 3



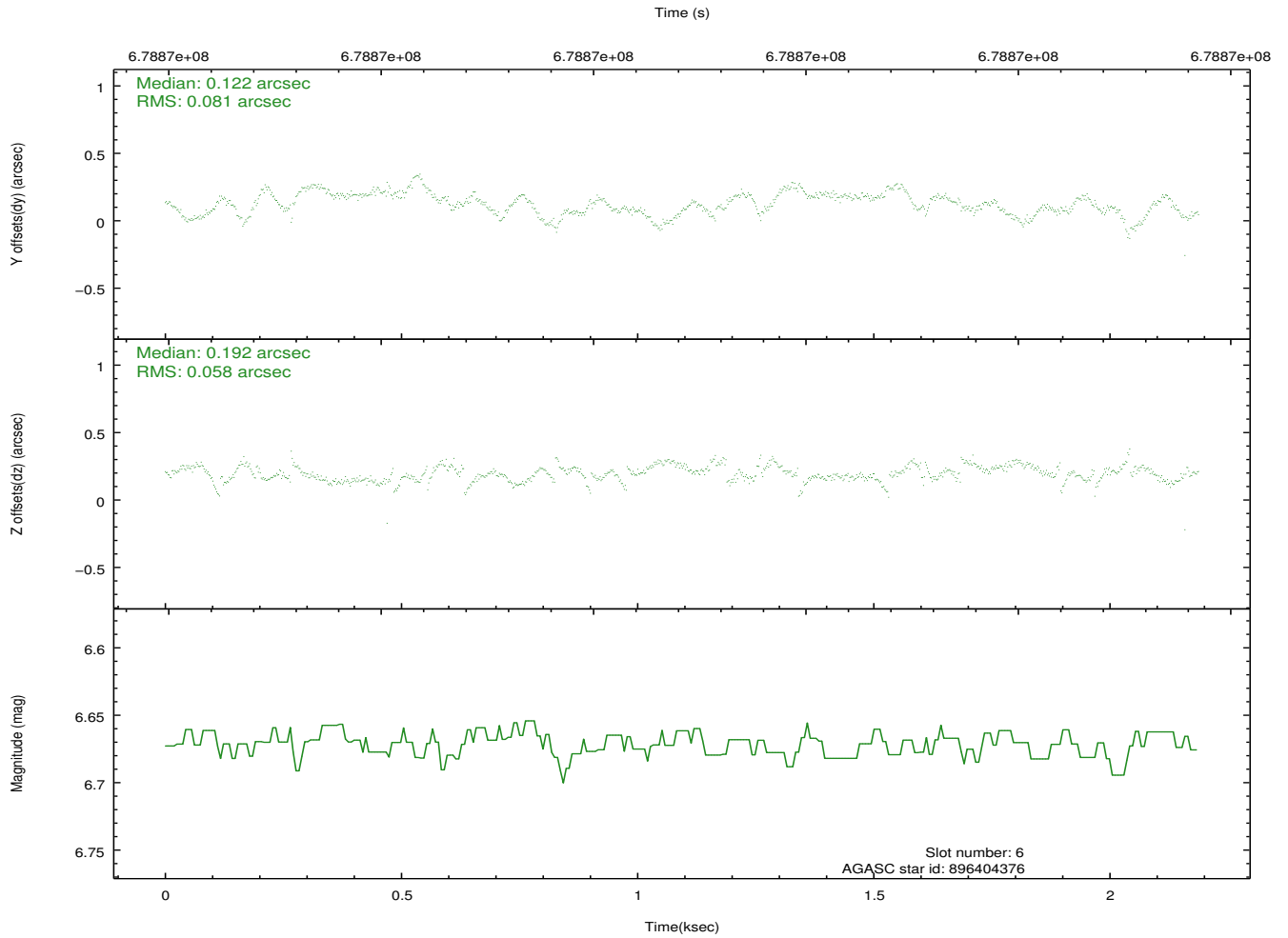
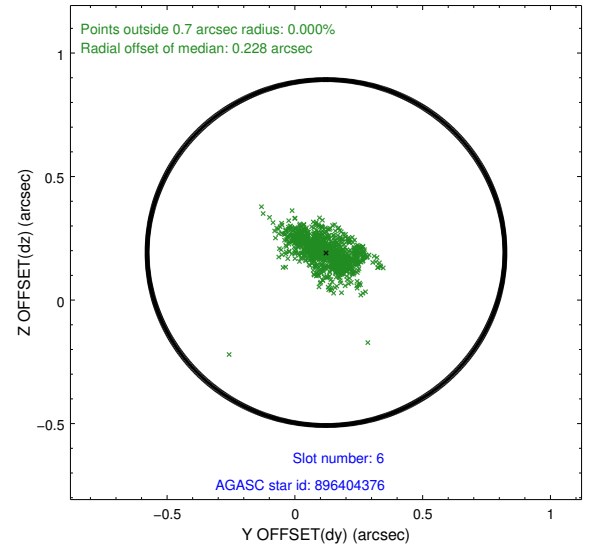
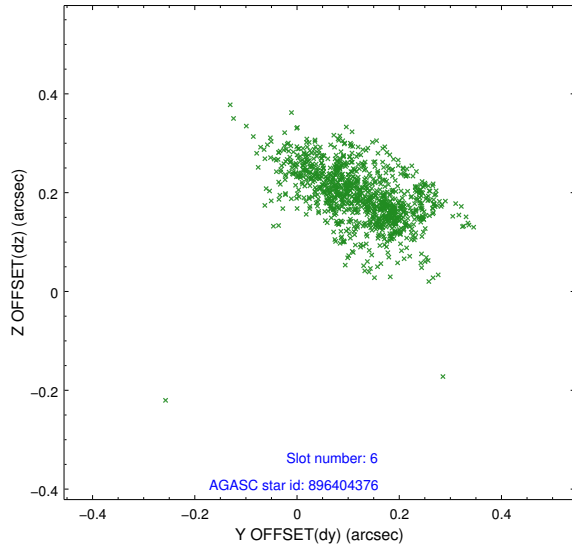
2.4.2 Slot 4



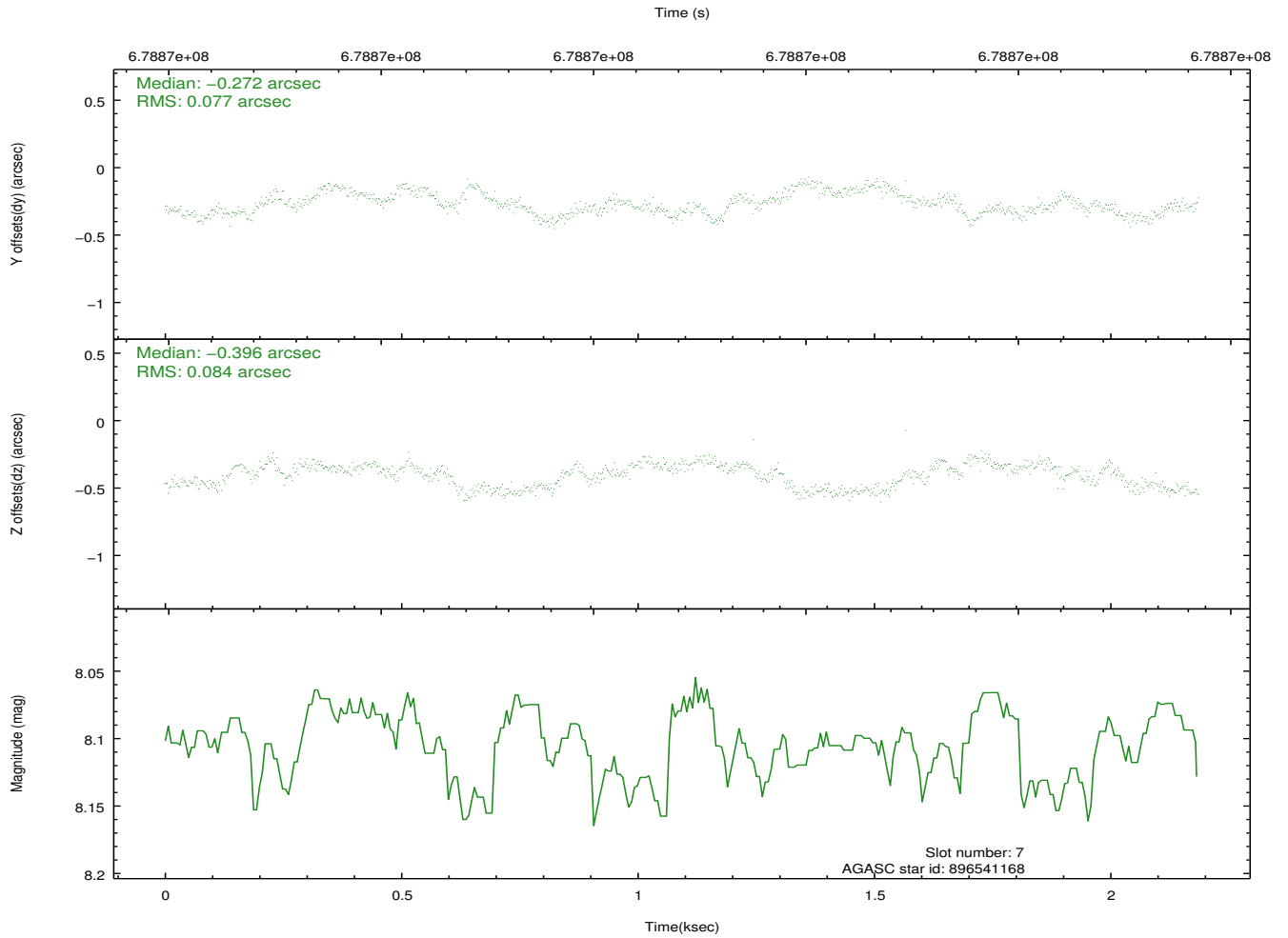
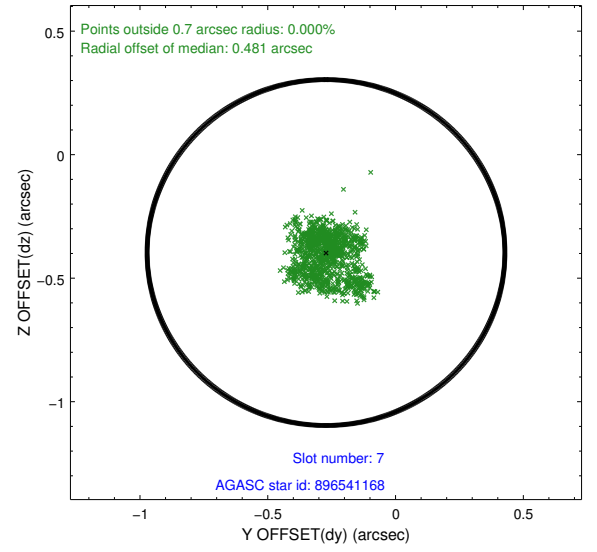
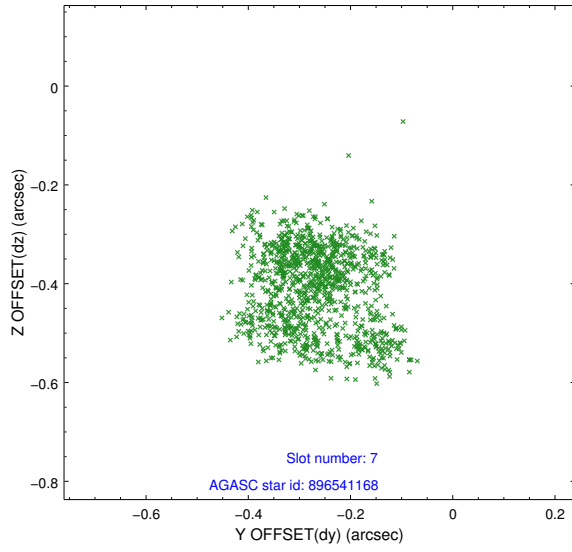
2.4.3 Slot 5



2.4.4 Slot 6

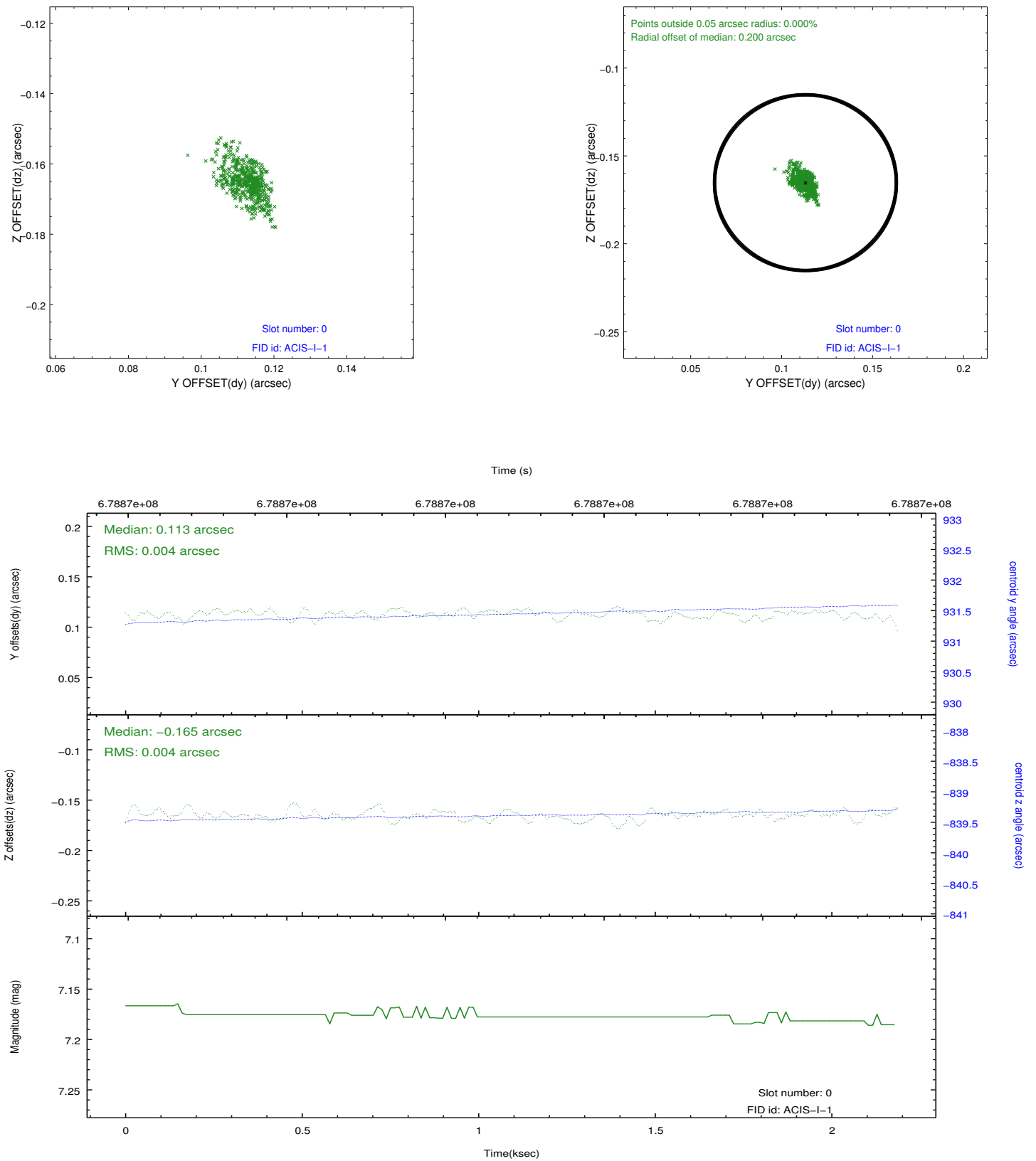


2.4.5 Slot 7

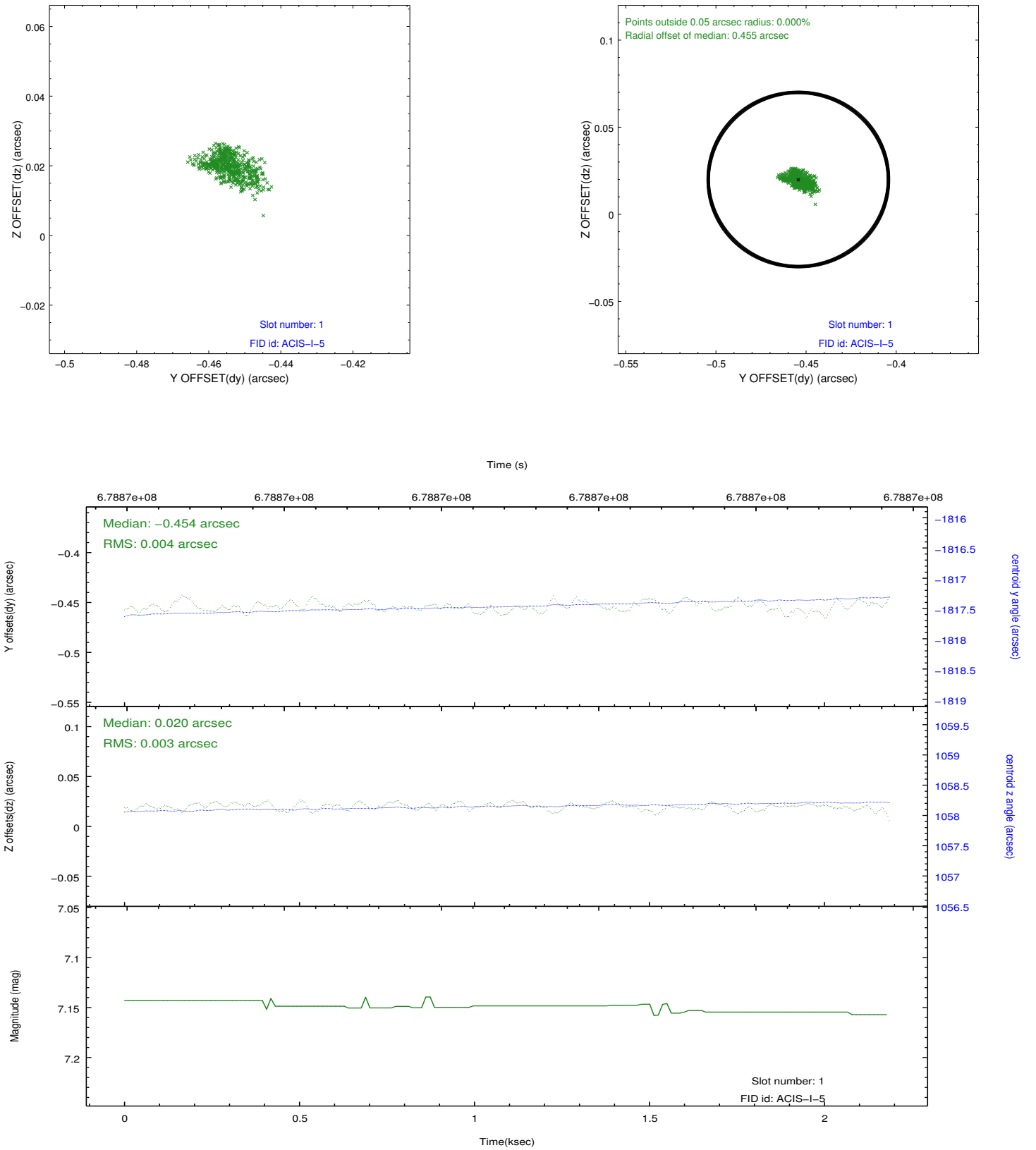


2.5 FID Slots

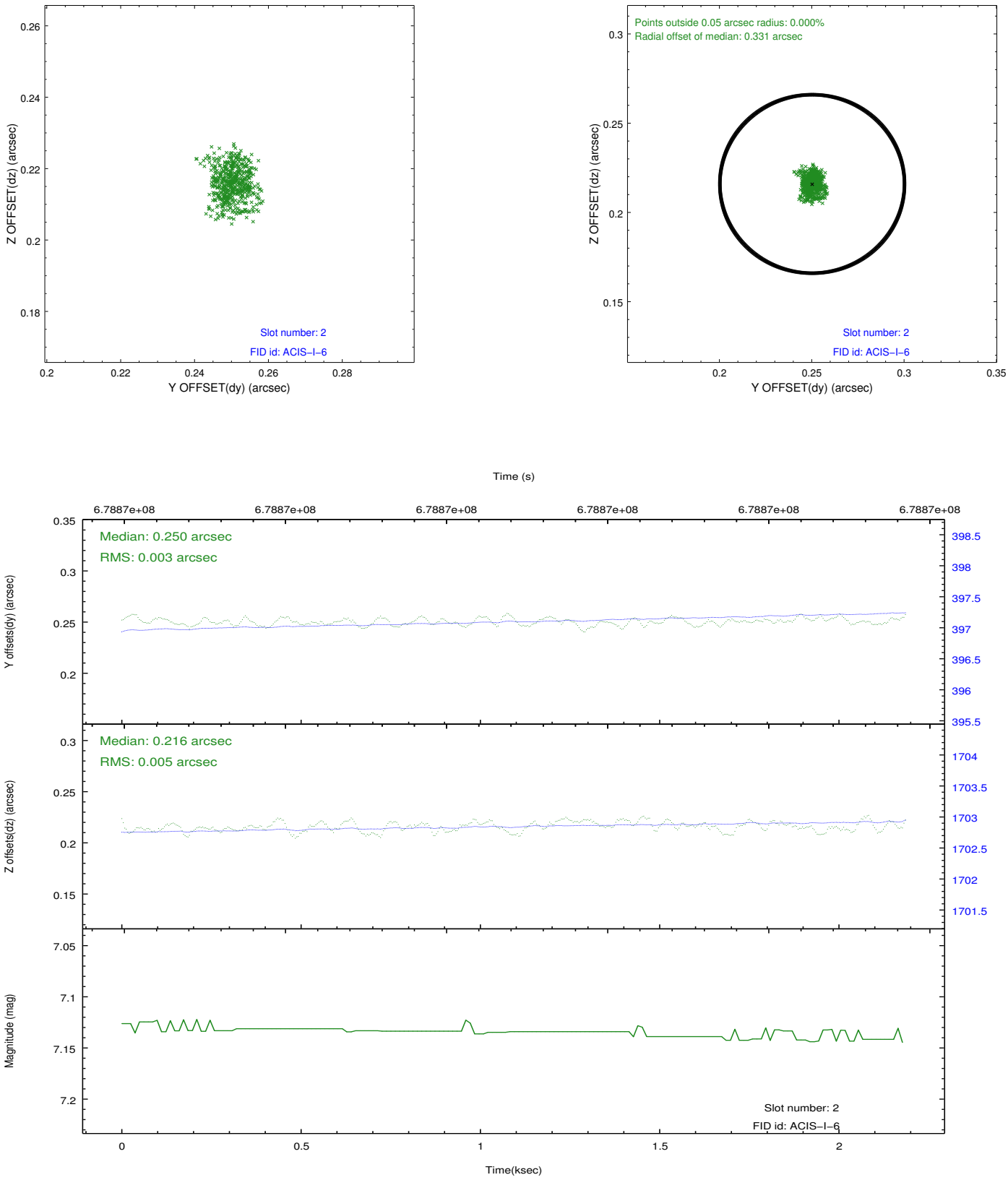
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9083064236641

A.2 Comments