

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 20147 - L2 Version 1
Chandra X-Ray Center

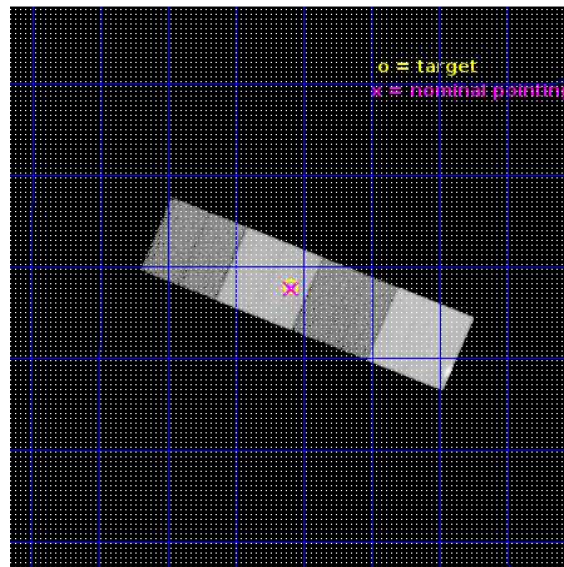
L2 Processing Date : Jul 29 2019

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1 Front

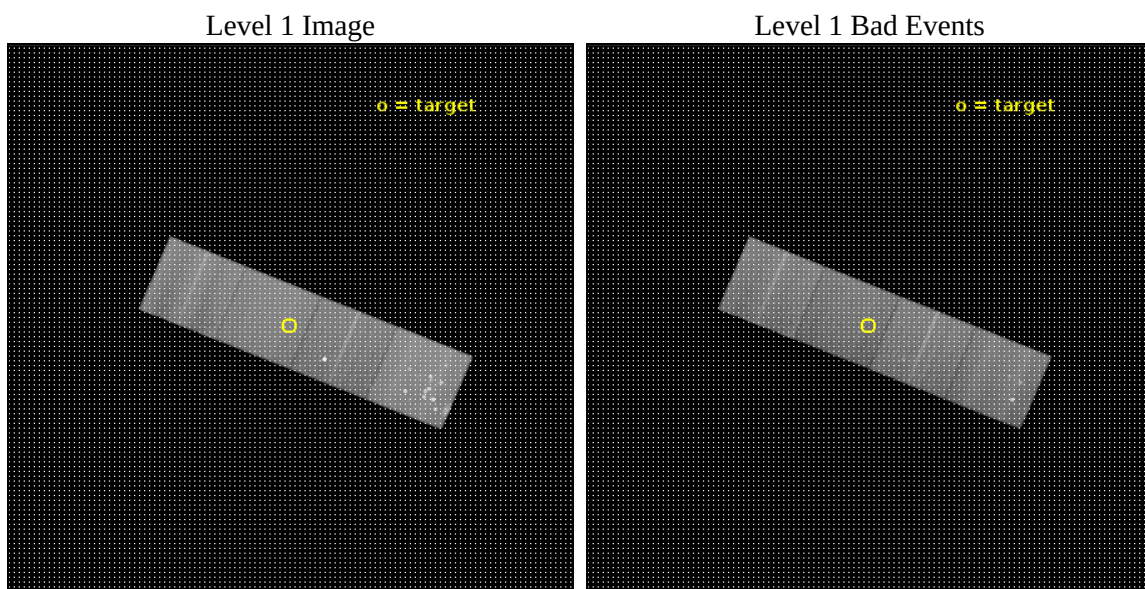
seq_num	201169	Sequence number
obs_id	20147	Observation id
title	Catching an FUor in the Act: Chandra ToO Observations of Extreme Accretion onto Young S	Proposal title
observer	David Pooley	Principal investigator
object	Gaia17bpi	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.773292	Observer's specified target RA [deg]
dec_targ	18.464519	Observer's specified target Dec [deg]
ra_nom	292.77254257876	Nominal RA [deg]
dec_nom	18.460108226401	Nominal Dec [deg]
roll_nom	202.47619499761	Nominal Roll [deg]
revision	1	Processing version of data
ontime	32059.666215658	Sum of GTIs [s]
livetime	31640.783074568	Livetime [s]
ontime5	32059.625175714	Sum of GTIs [s]
ontime6	32059.584135652	Sum of GTIs [s]
ontime7	32059.666215658	Sum of GTIs [s]
ontime8	32056.40202558	Sum of GTIs [s]
l2events	374057	Number of level 2 events



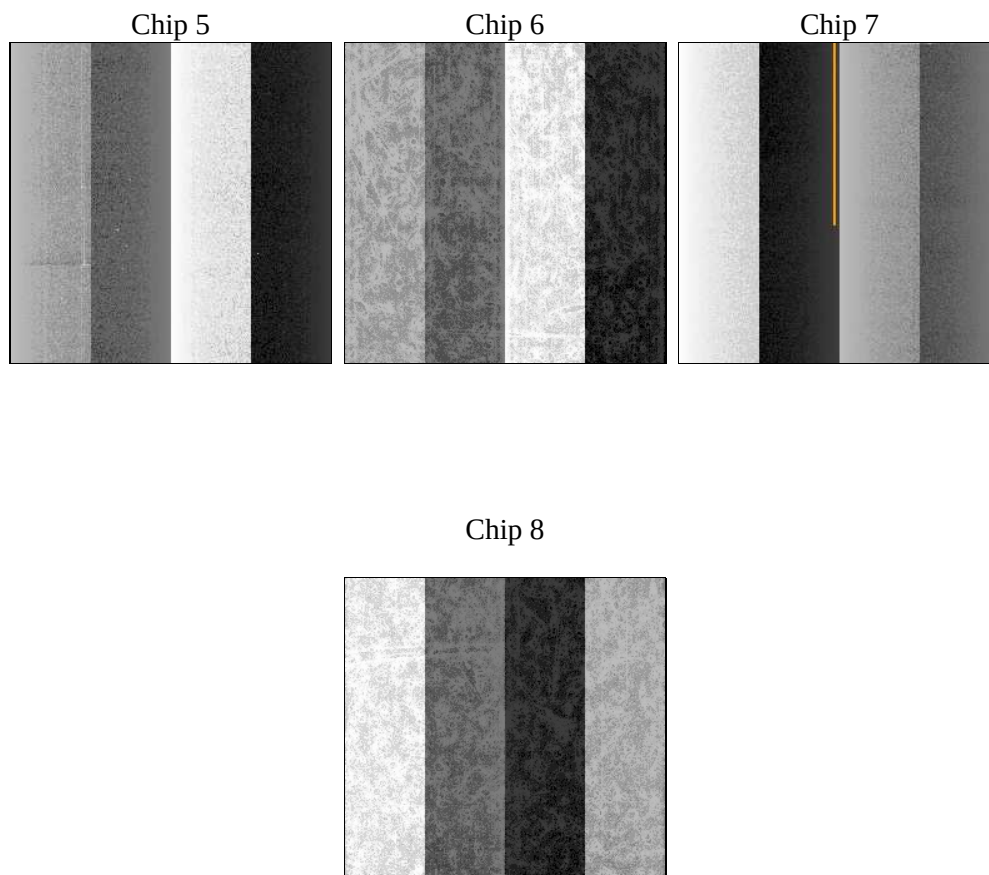
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	32059.666215658	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime5	32059.625175714	Sum of GTIs [s]
date	2019-07-29T21:54:24	Date and time of file creation	ontime6	32059.584135652	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	32059.666215658	Sum of GTIs [s]
			ontime8	32056.40202558	Sum of GTIs [s]
			l1events	1433911	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	487145	307679	320292	318795
rejected events	226161	236845	183434	241386
rejected %	46%	76%	57%	75%

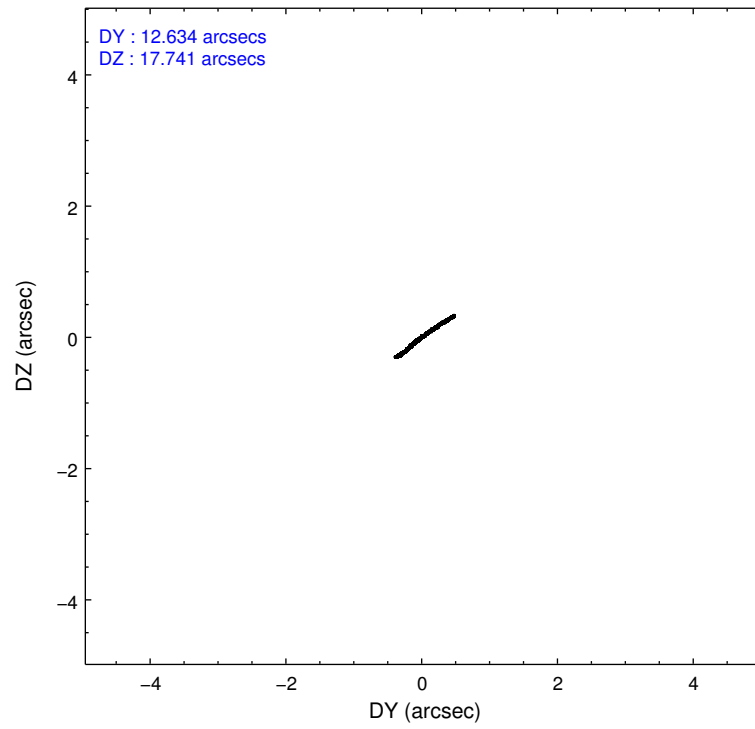
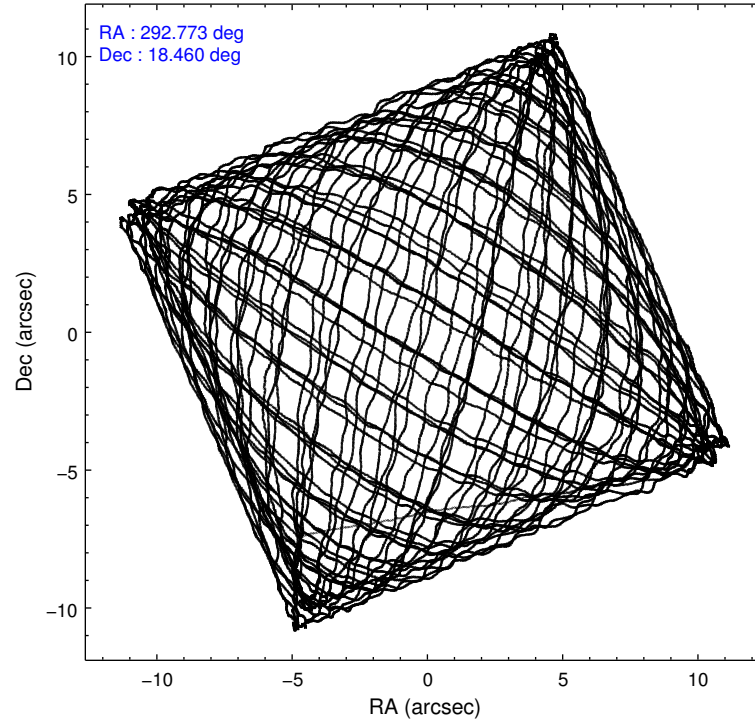
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	61151	49930	11348	20870
	12%	16%	3%	6%
grade 1 events	1091	298	512	214
	0%	0%	0%	0%
grade 2 events	76428	8401	28443	19841
	15%	2%	8%	6%
grade 3 events	7163	2251	10485	7401
	1%	0%	3%	2%
grade 4 events	5847	2234	10164	6872
	1%	0%	3%	2%
grade 5 events	27409	9989	30244	16119
	5%	3%	9%	5%
grade 6 events	110415	8023	76427	22445
	22%	2%	23%	7%
grade 7 events	197641	226553	152669	225033
	40%	73%	47%	70%

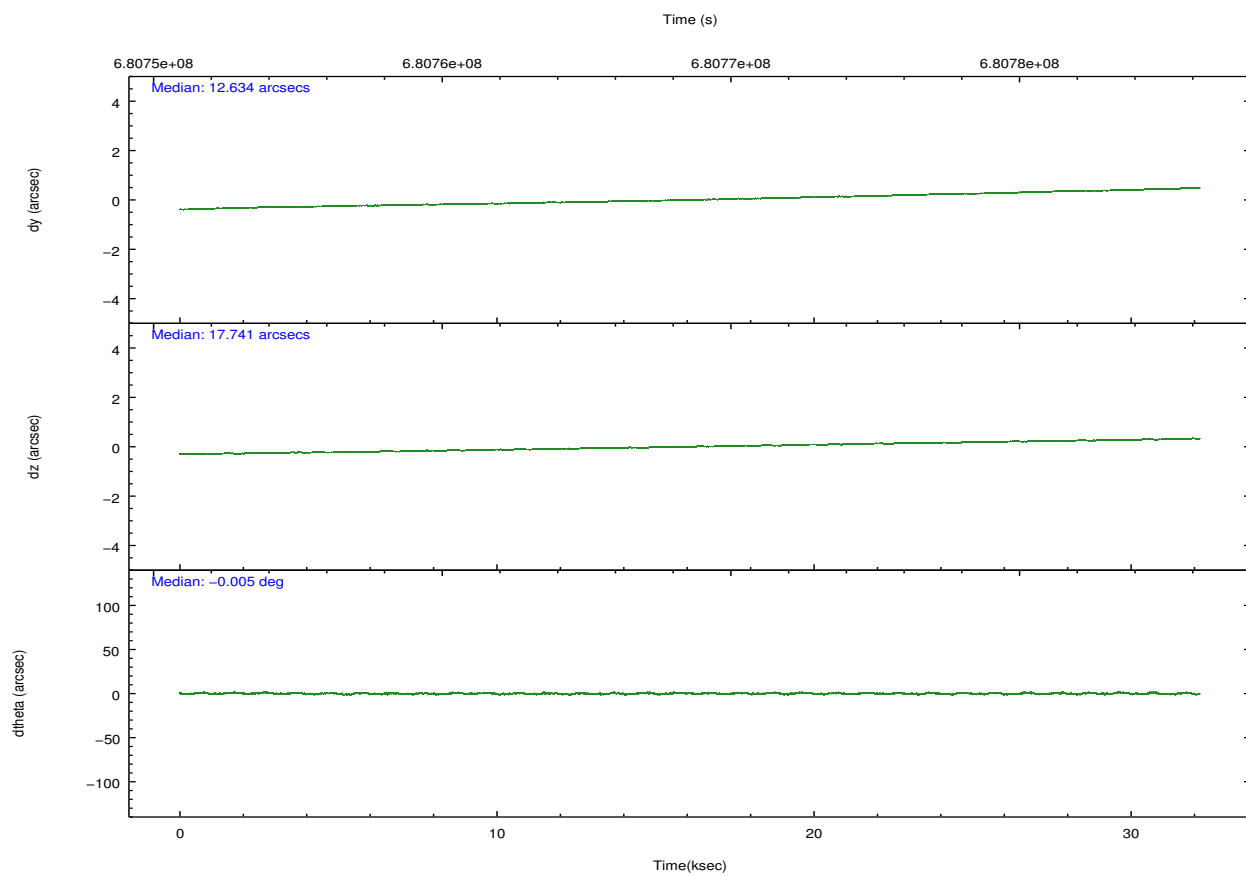
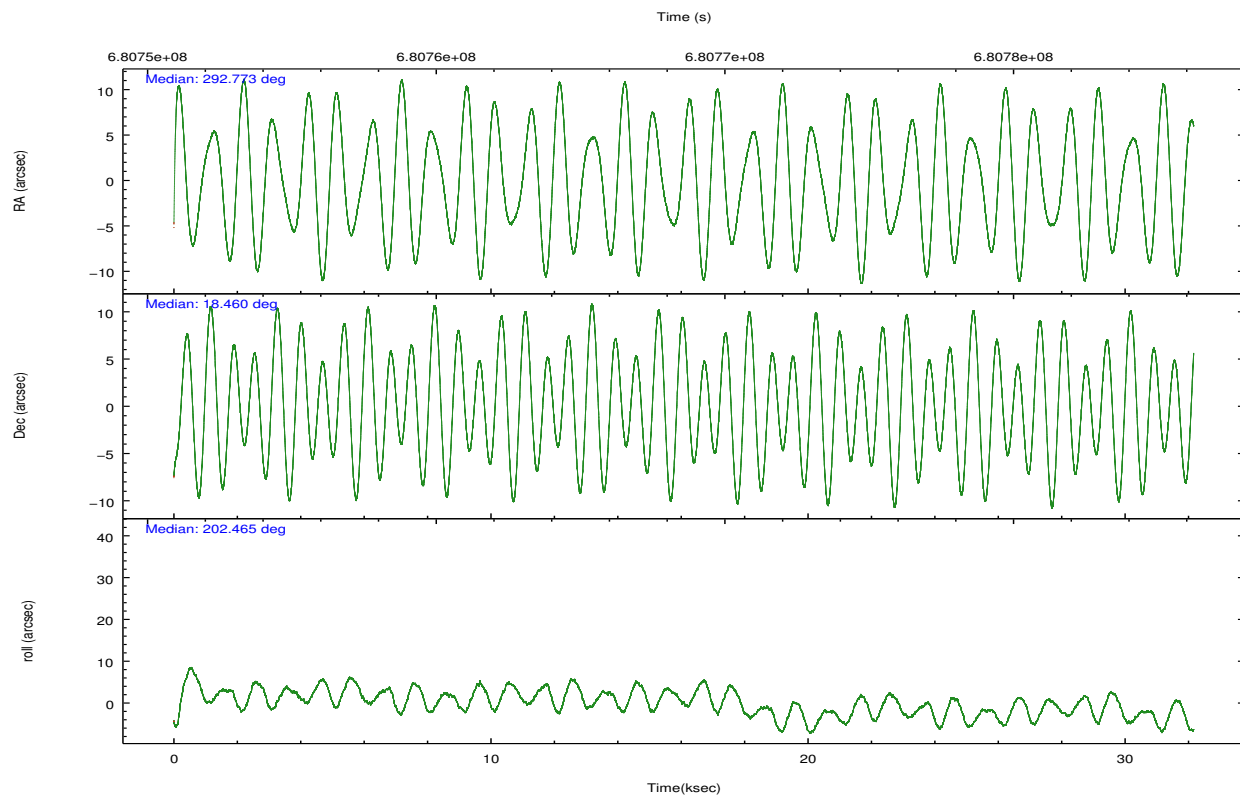
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	292.789851	292.7725425787587
[deg] Pointing Dec	18.482108	18.46010822640103
[deg] Pointing Roll	202.314081	202.4761949976125
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	680752658.184000	680751434.0811599
Observation start date	2019-07-29T01:56:29	2019-07-29T01:37:14
[s] Observation end time (MET)	680784658.184000	680785562.99571
Observation end date	2019-07-29T10:49:49	2019-07-29T11:06:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	O2	N
CCD S0 on	N	N
CCD S1 on	O3	Y
CCD S2 on	O5	Y
CCD S3 on	Y	Y
CCD S4 on	O4	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



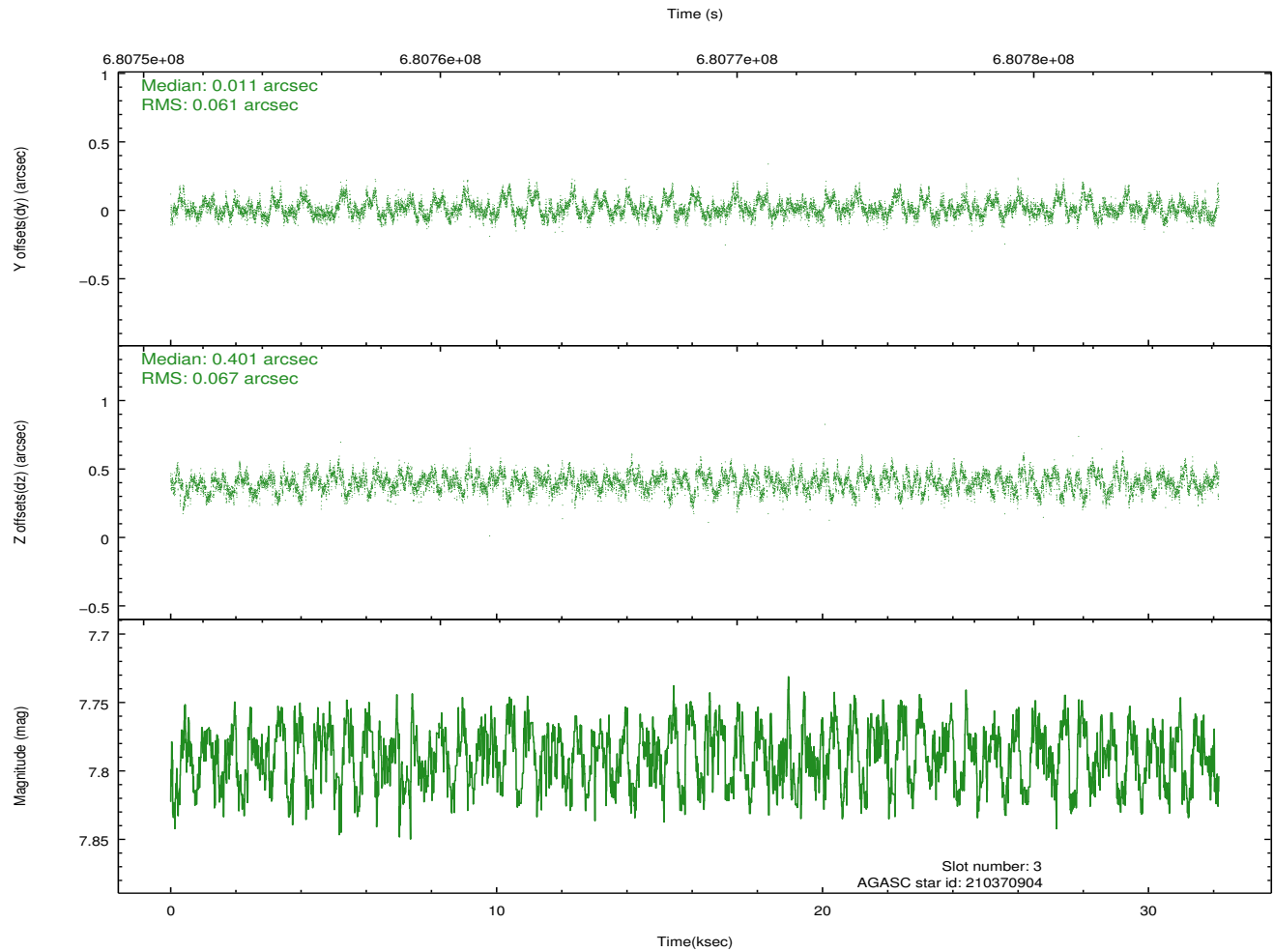
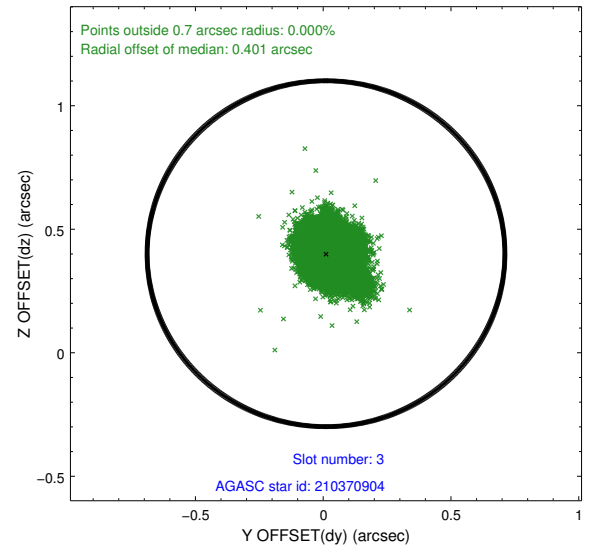
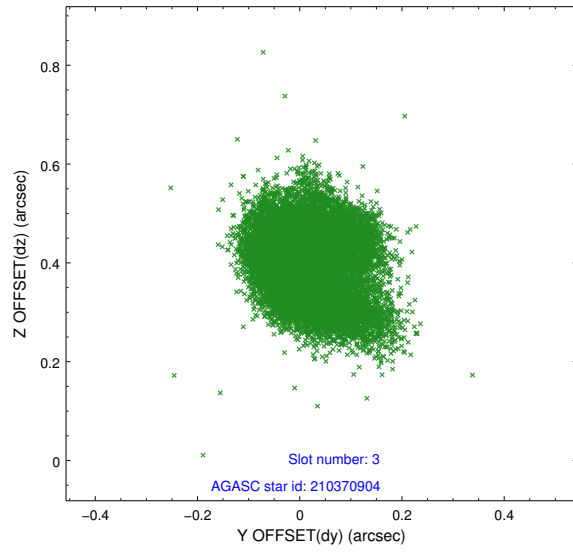


Slot Statistics

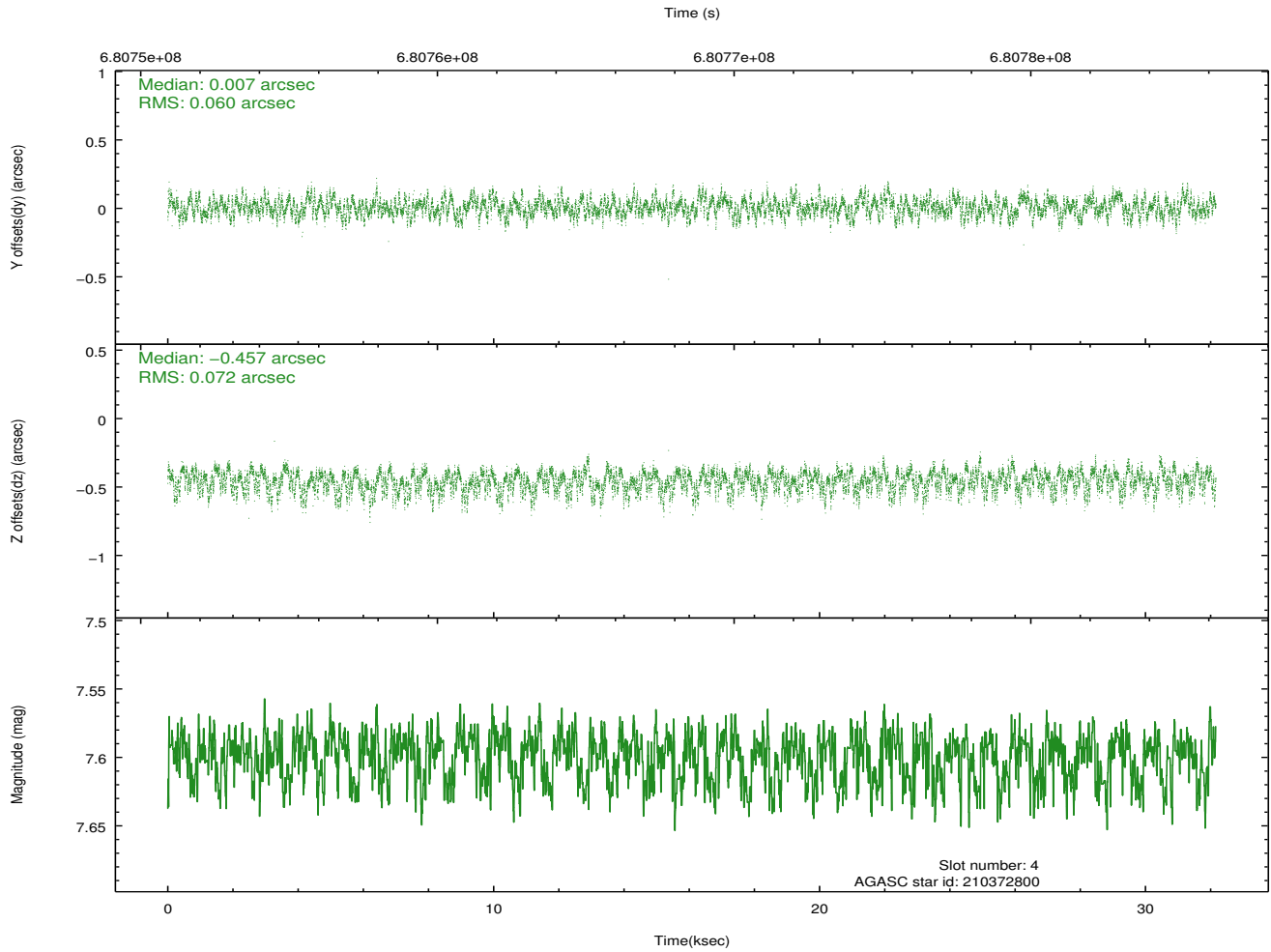
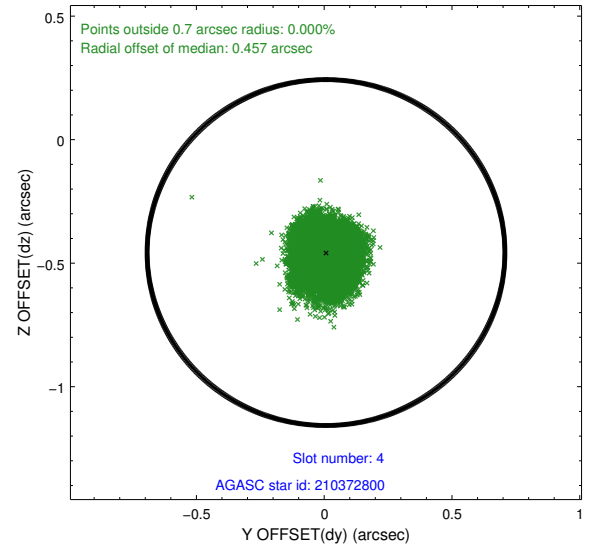
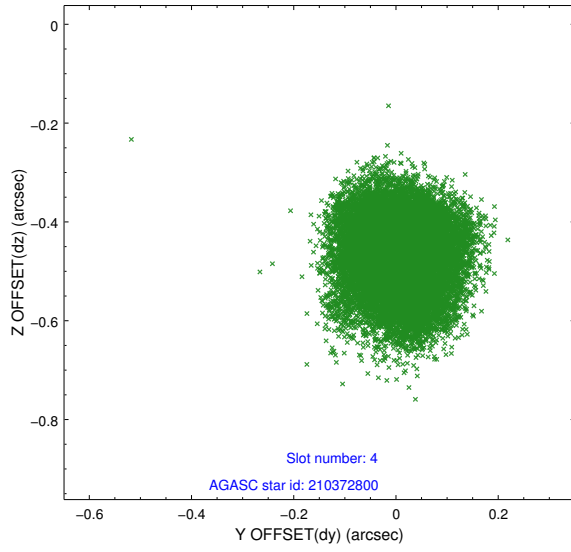
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.40	7845	1.000	-0.176	-0.217	0.021	0.030	0.000000	0.000000	47.48	-1868
1	FID		ACIS-S-4	7.27	7843	1.000	0.699	0.194	0.028	0.046	0.000000	0.000000	2148.48	169
2	FID		ACIS-S-5	7.24	7844	1.000	-0.545	0.032	0.032	0.049	0.000000	0.000000	-1818.88	163
3	GUIDE	used	210370904	7.79	15687	1.000	0.011	0.401	0.095	0.155	292.563039	18.704932	411.74	-1035
4	GUIDE	used	210372800	7.60	15686	1.000	0.007	-0.457	0.100	0.159	292.605285	17.695257	1660.70	2379
5	GUIDE	used	210373136	7.95	15685	1.000	-0.102	-0.084	0.095	0.157	292.893985	17.958185	385.65	1879
6	GUIDE	used	210375784	7.13	15687	1.000	0.006	-0.016	0.080	0.129	292.707024	18.250669	578.30	663
7	GUIDE	used	210900512	7.80	15680	1.000	0.068	0.174	0.150	0.247	292.050352	18.917419	1734.04	-2410

2.4 Star Slots

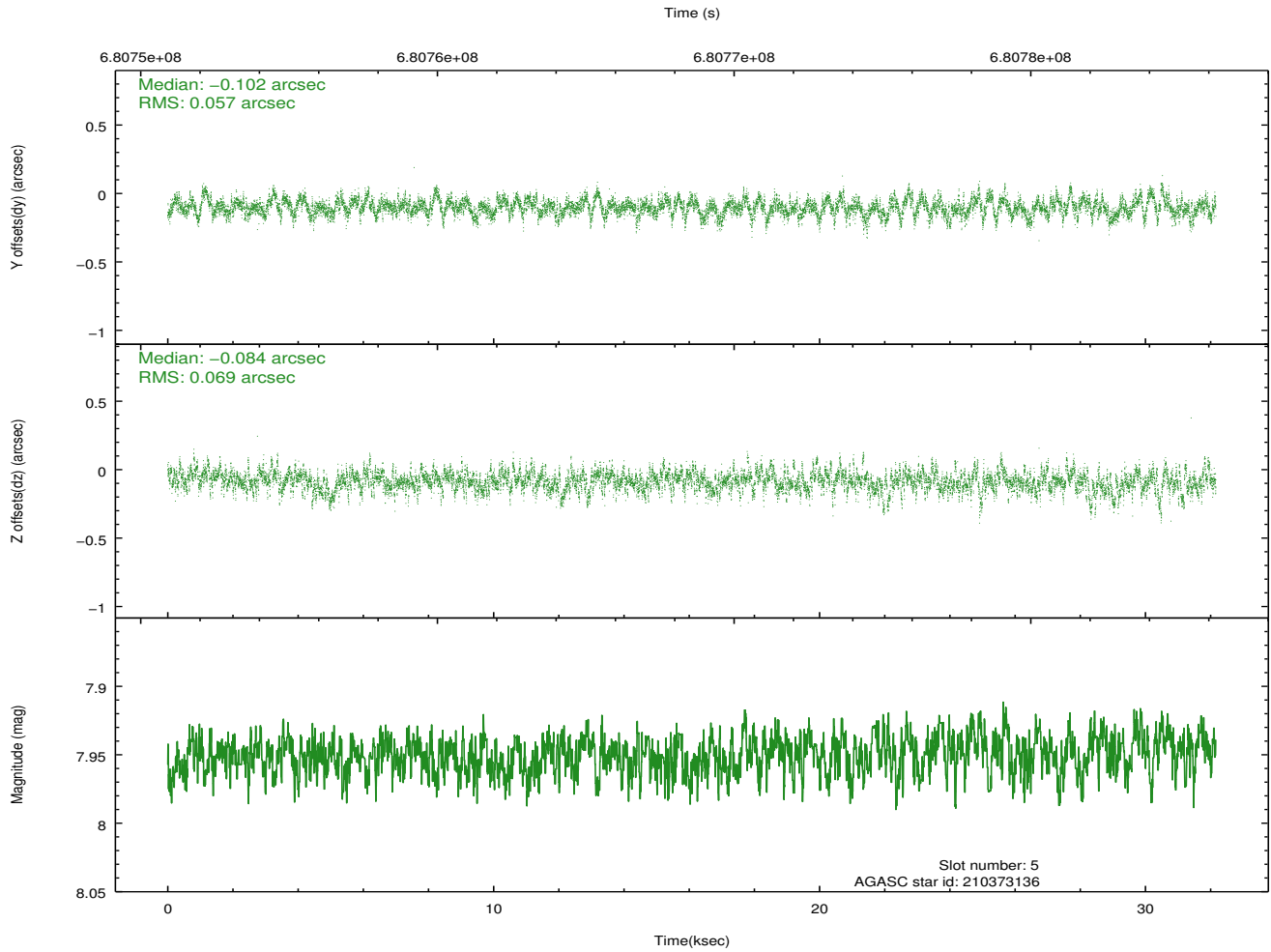
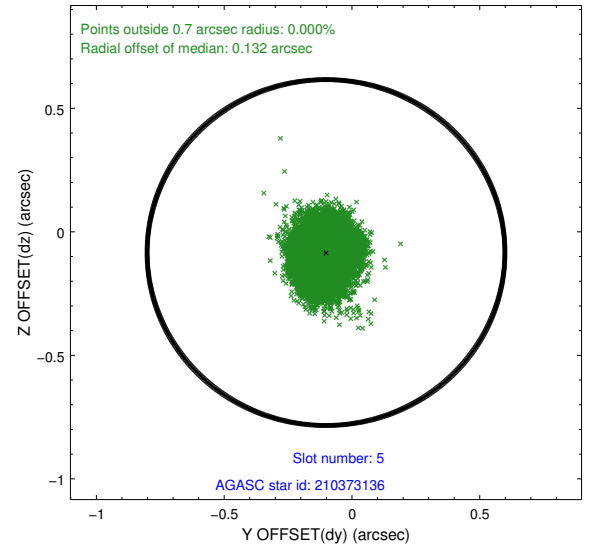
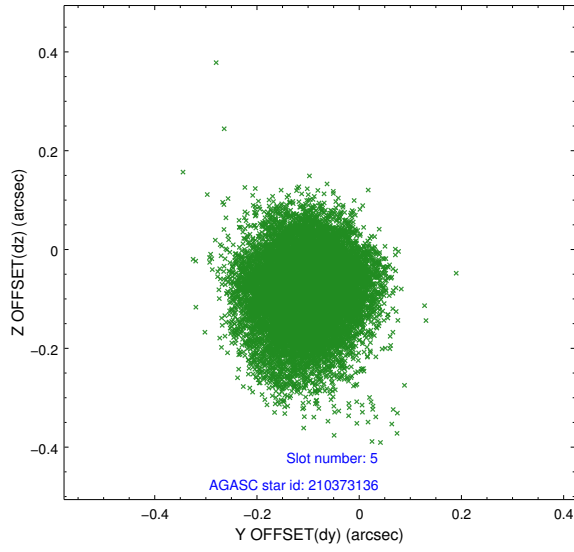
2.4.1 Slot 3



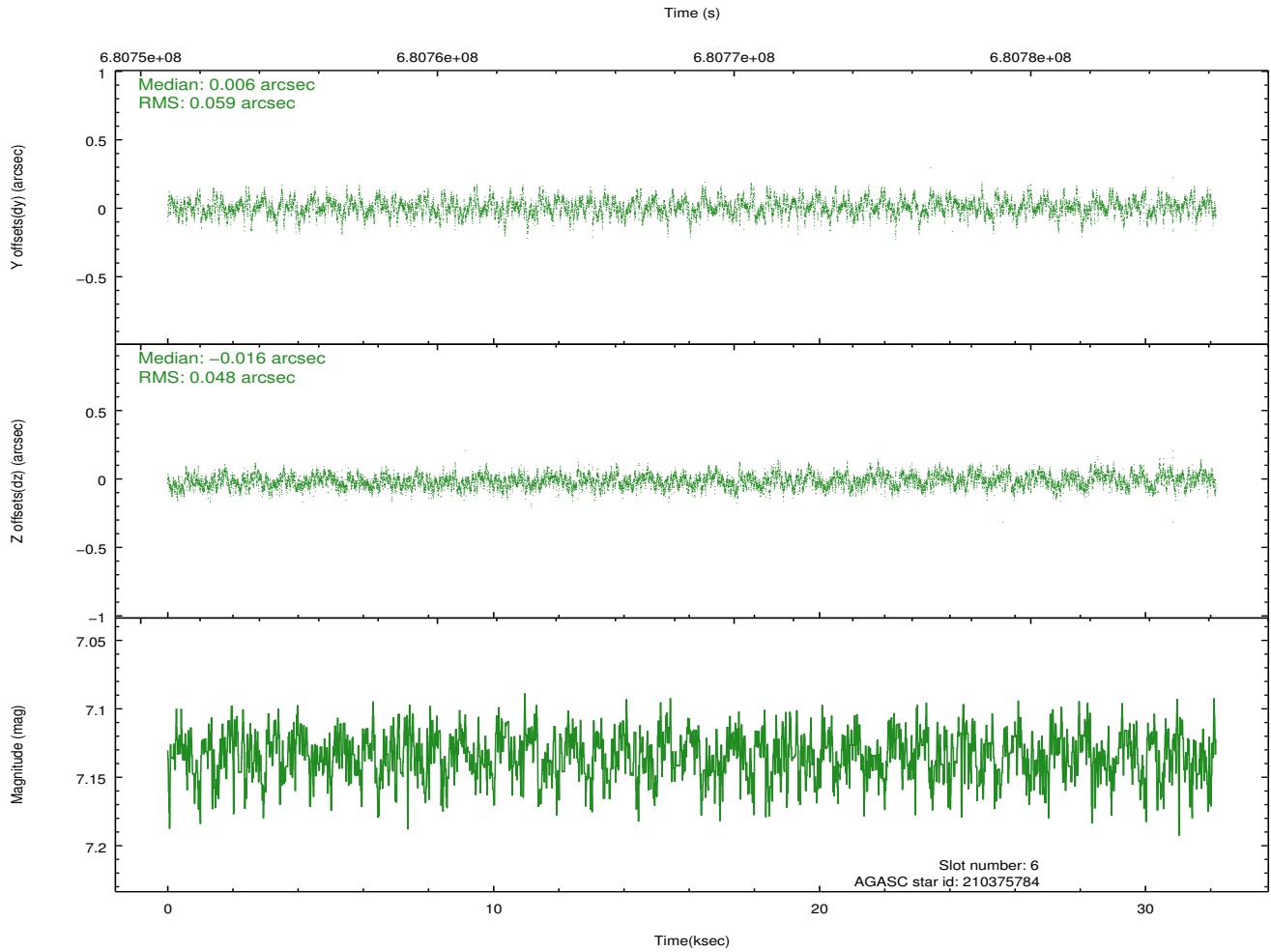
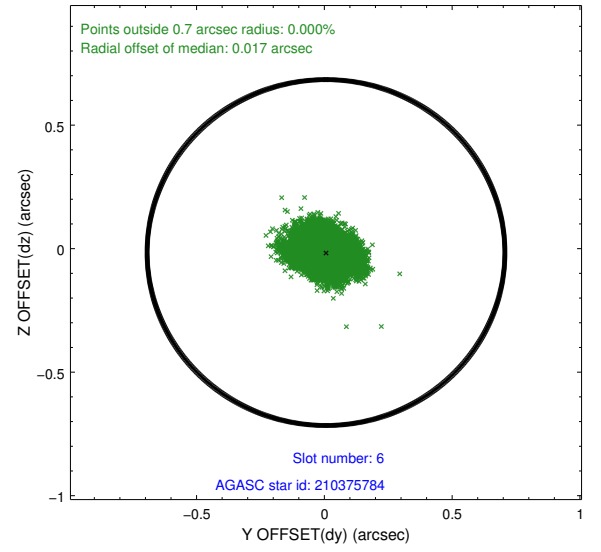
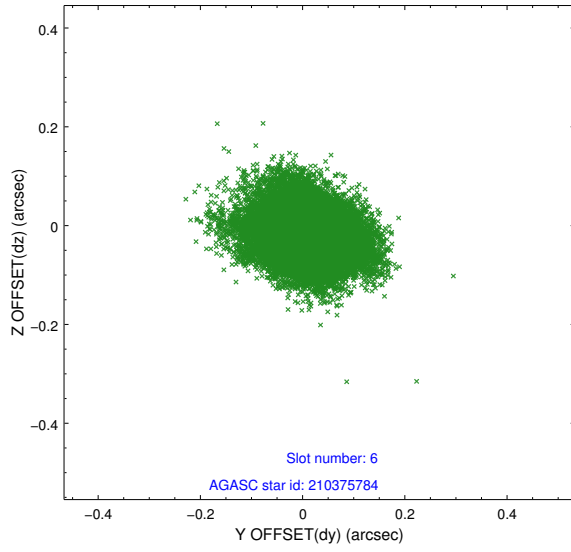
2.4.2 Slot 4



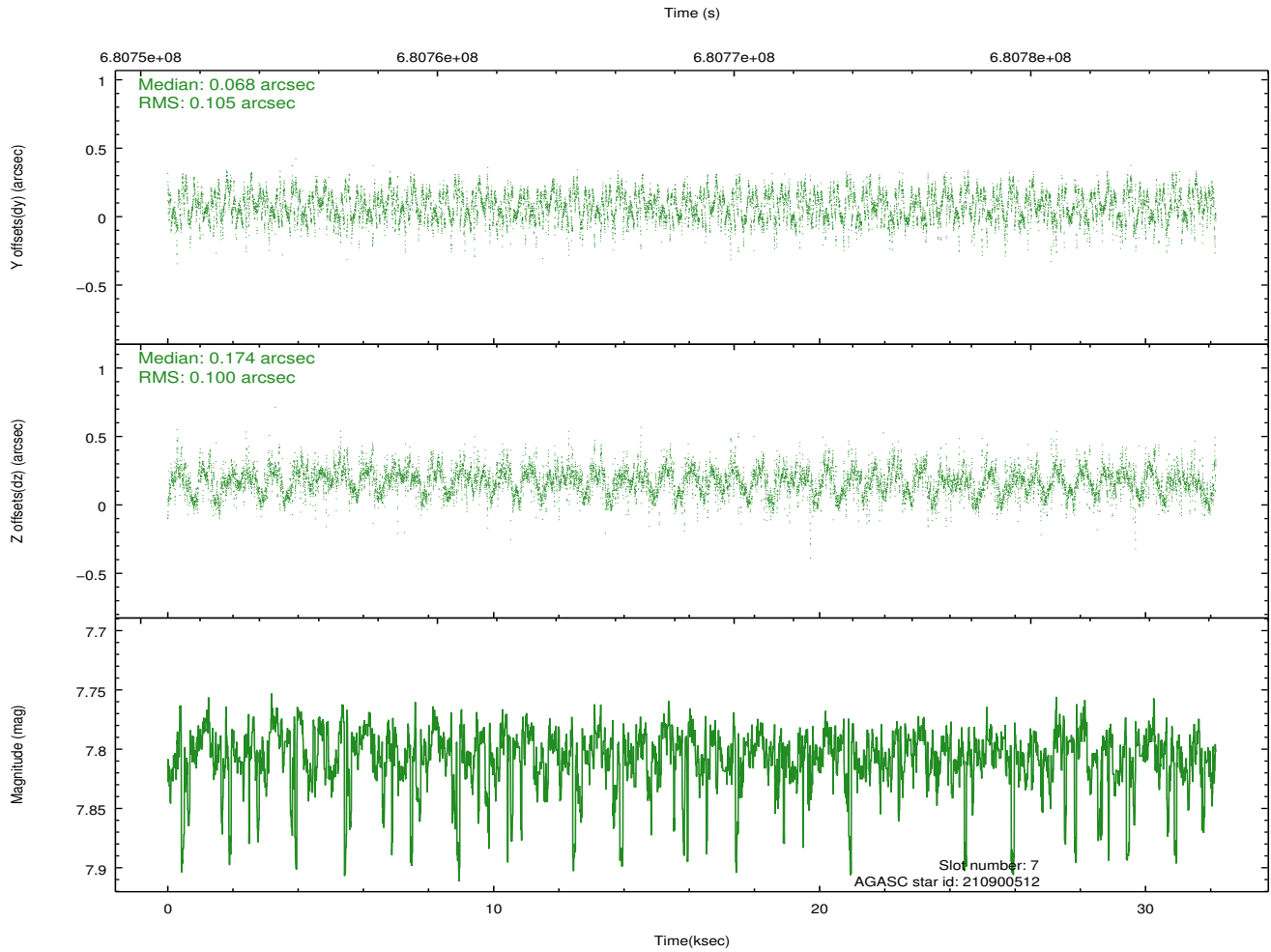
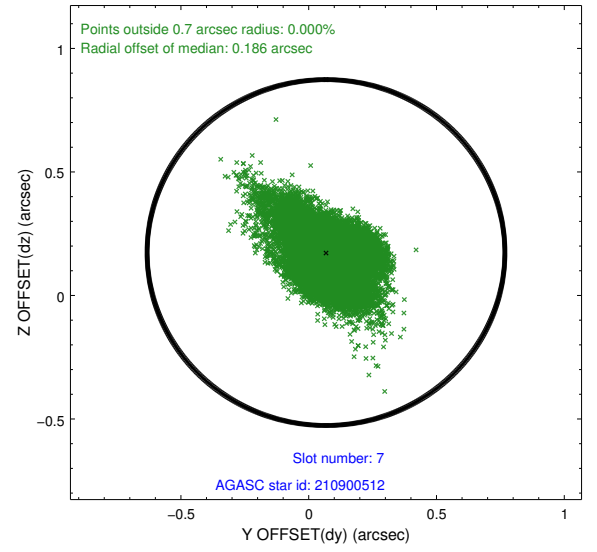
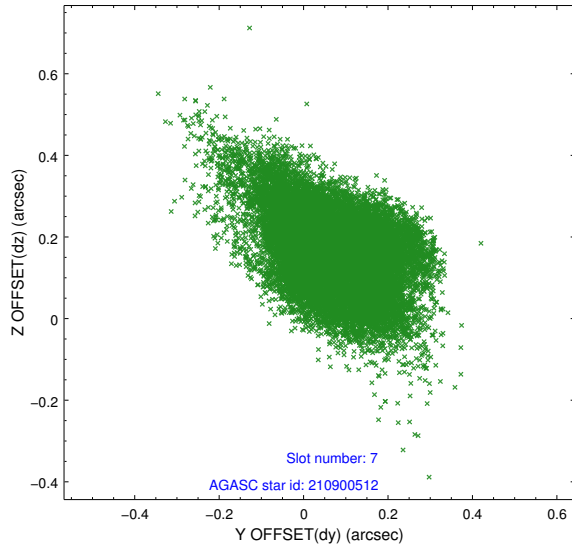
2.4.3 Slot 5



2.4.4 Slot 6

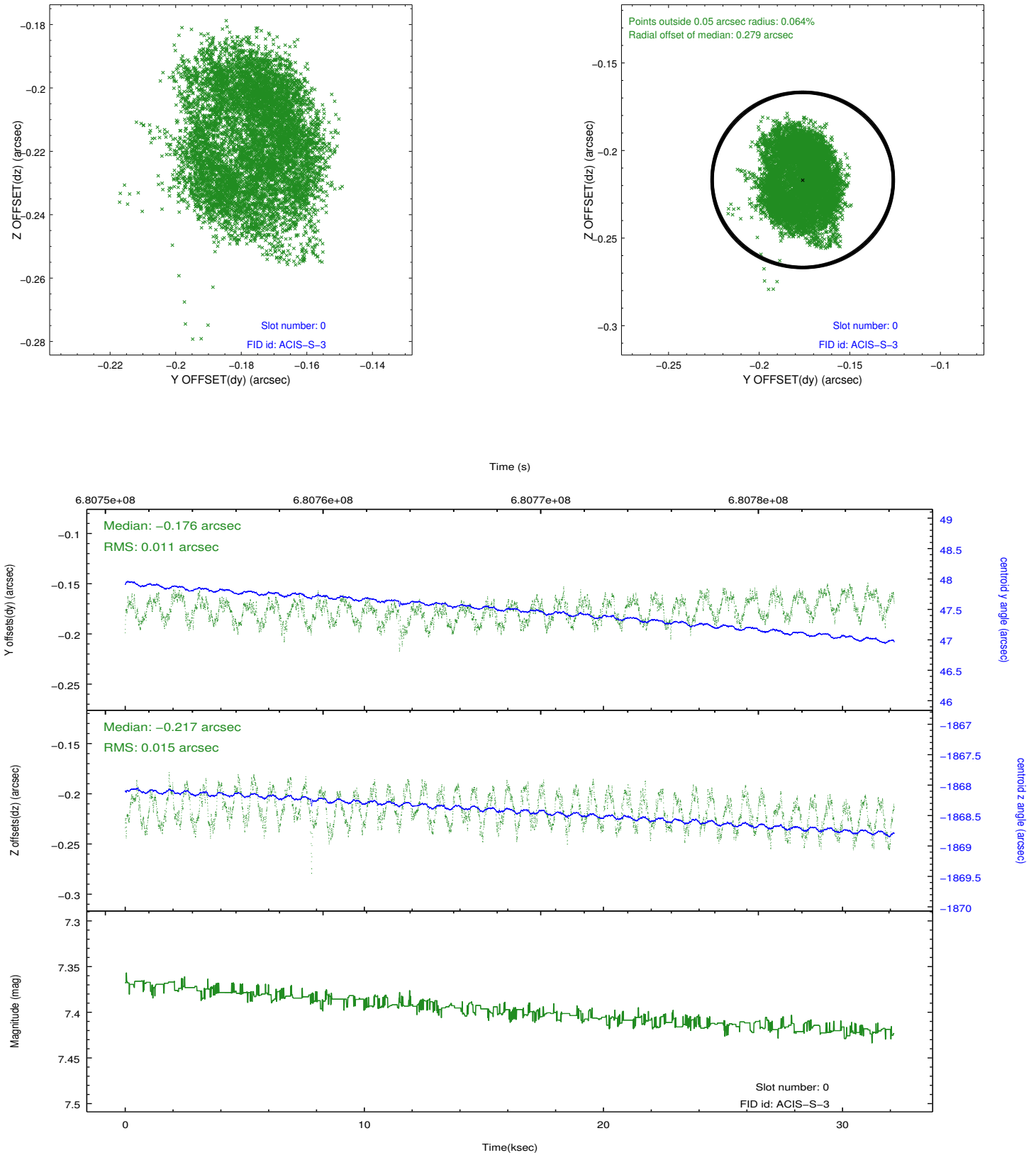


2.4.5 Slot 7

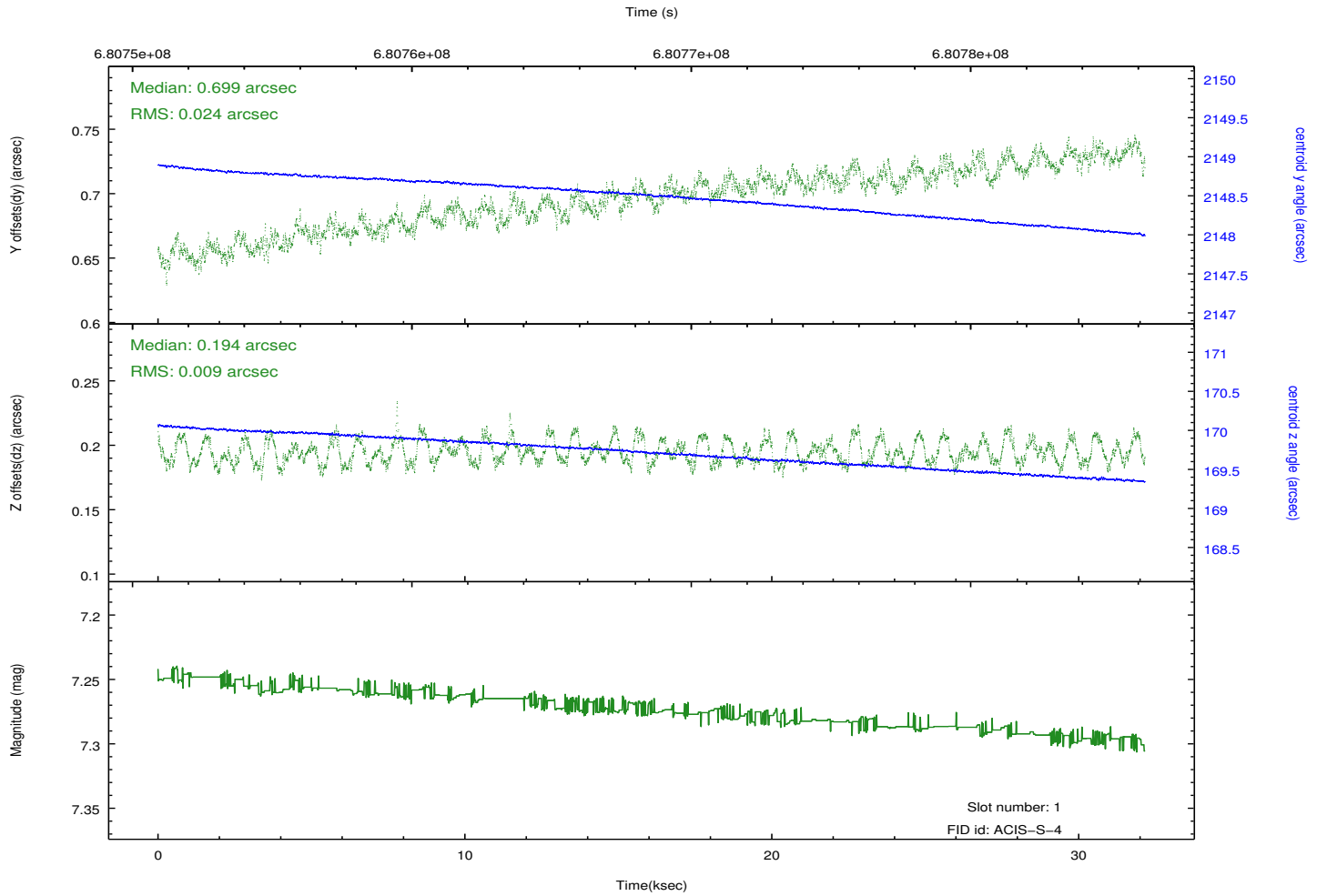
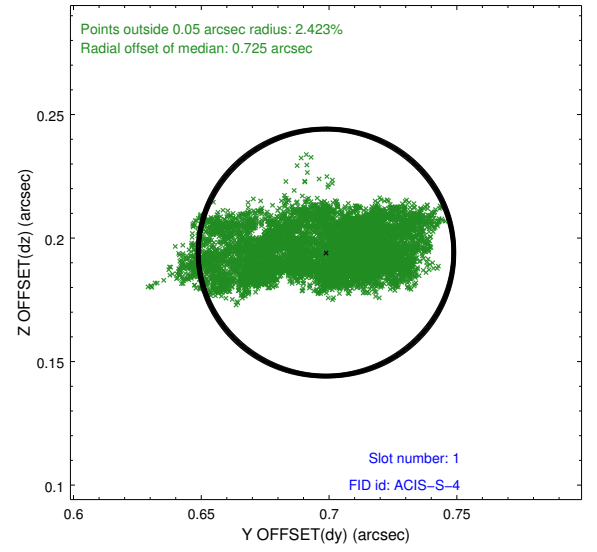
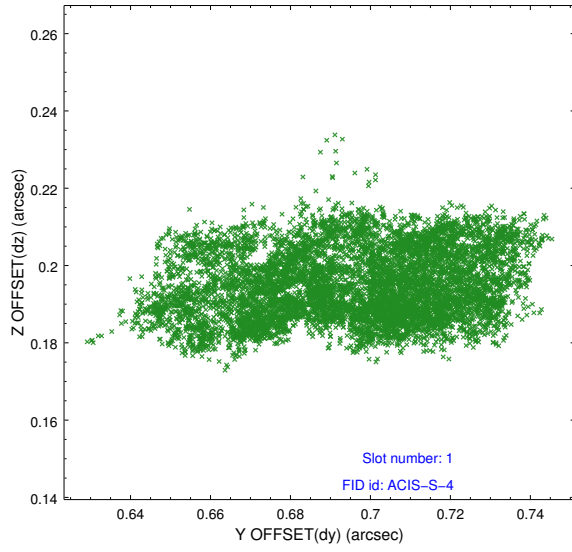


2.5 FID Slots

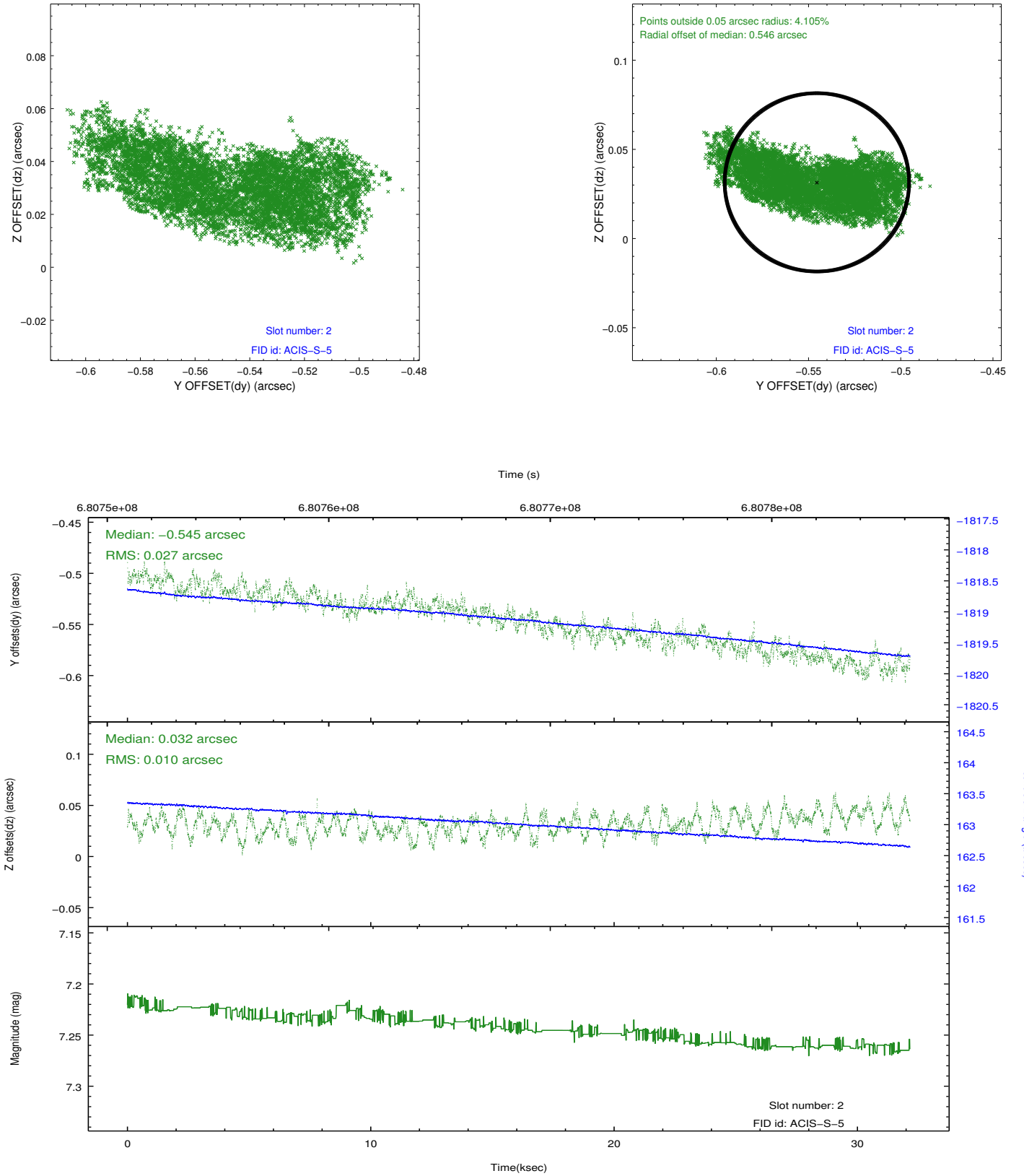
2.5.1 Slot 0



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)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.059666215658

A.2 Comments

Two optional chips were dropped.