

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21462 - L2 Version 1
Chandra X-Ray Center

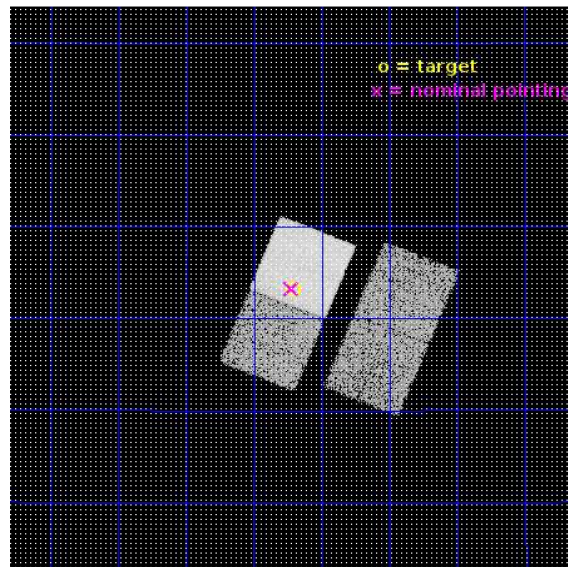
L2 Processing Date : Dec 6 2018

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1 Front

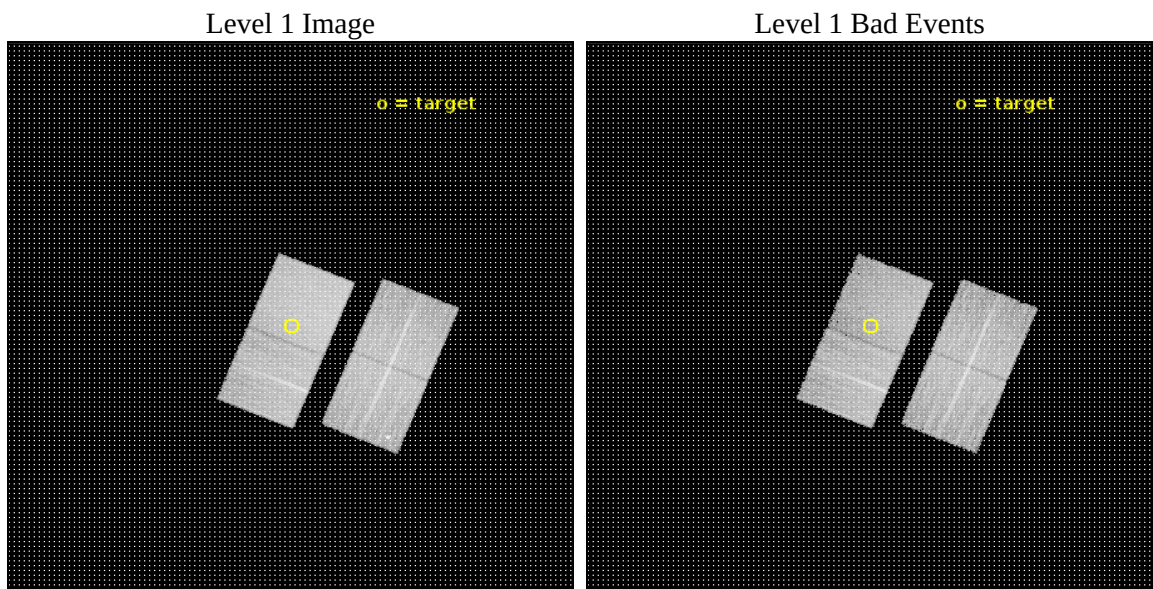
seq_num	703759	Sequence number
obs_id	21462	Observation id
title	X-raying a rare hyperluminous ultramassive black-hole at cosmic dawn	
observer	Luca Zappacosta	Principal investigator
object	J03064+1853	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	46.677083	Observer's specified target RA [deg]
dec_targ	18.887722	Observer's specified target Dec [deg]
ra_nom	46.680801120708	Nominal RA [deg]
dec_nom	18.887720521707	Nominal Dec [deg]
roll_nom	292.15542205949	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11707.592633963	Sum of GTIs [s]
livetime	11554.624317196	Livetime [s]
ontime2	11707.469514012	Sum of GTIs [s]
ontime3	11707.510553956	Sum of GTIs [s]
ontime6	11704.410523772	Sum of GTIs [s]
ontime7	11707.592633963	Sum of GTIs [s]
l2events	73832	Number of level 2 events



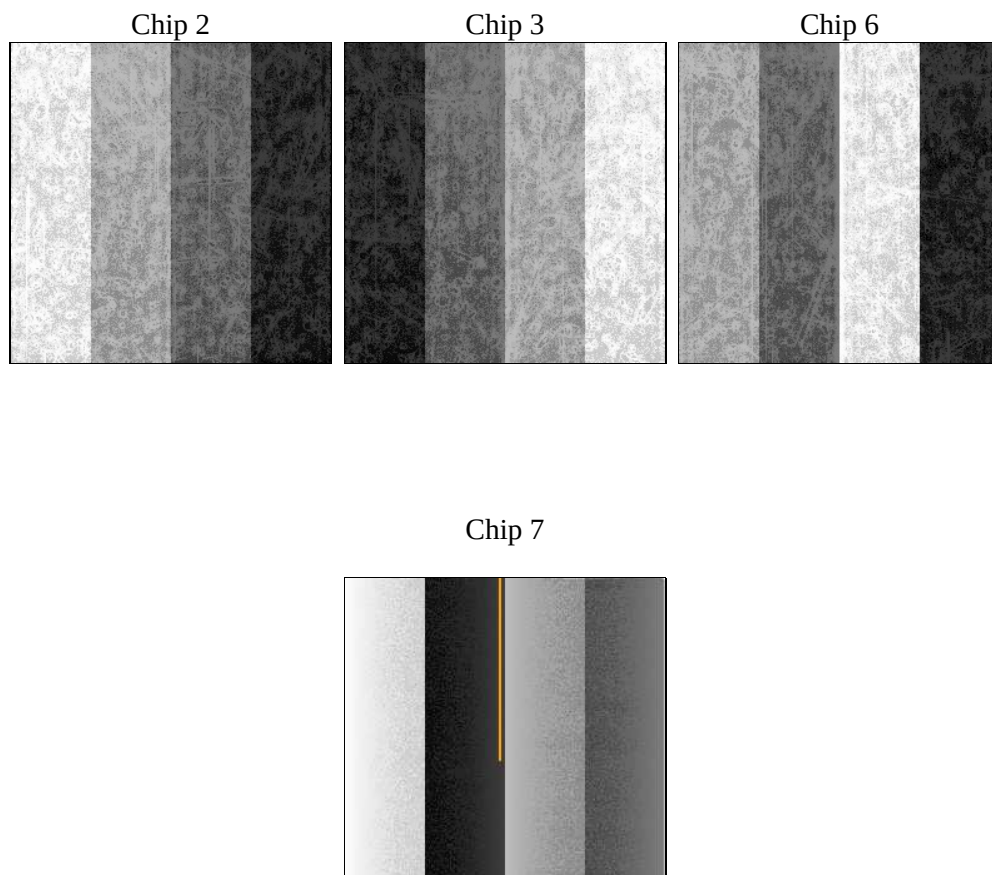
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11800.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	11707.592633963	Sum of GTIs [s]
caldbver	4.8.0.1	 	ontime2	11707.469514012	Sum of GTIs [s]
date	2018-12-07T00:06:58	Date and time of file creation	ontime3	11707.510553956	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11704.410523772	Sum of GTIs [s]
			ontime7	11707.592633963	Sum of GTIs [s]
			l1events	390235	Number of level 1 events

2.1.4 Events

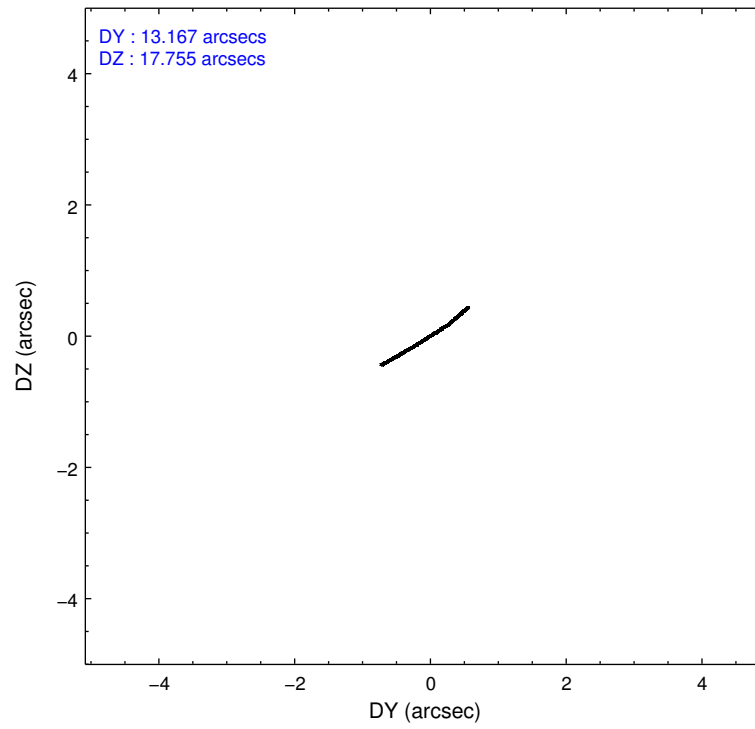
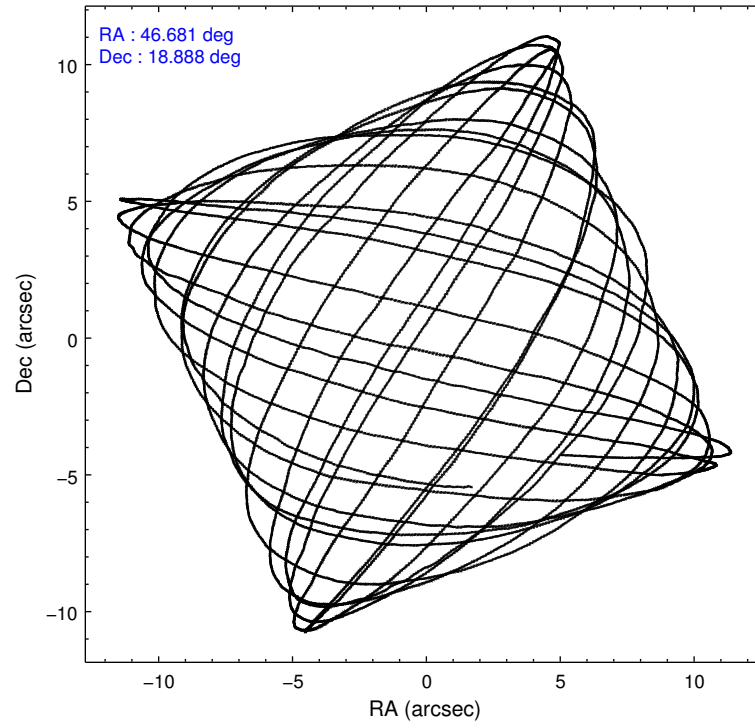
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	92475	87733	93982	116045
rejected events	82166	78653	83656	65866
rejected %	88%	89%	89%	56%

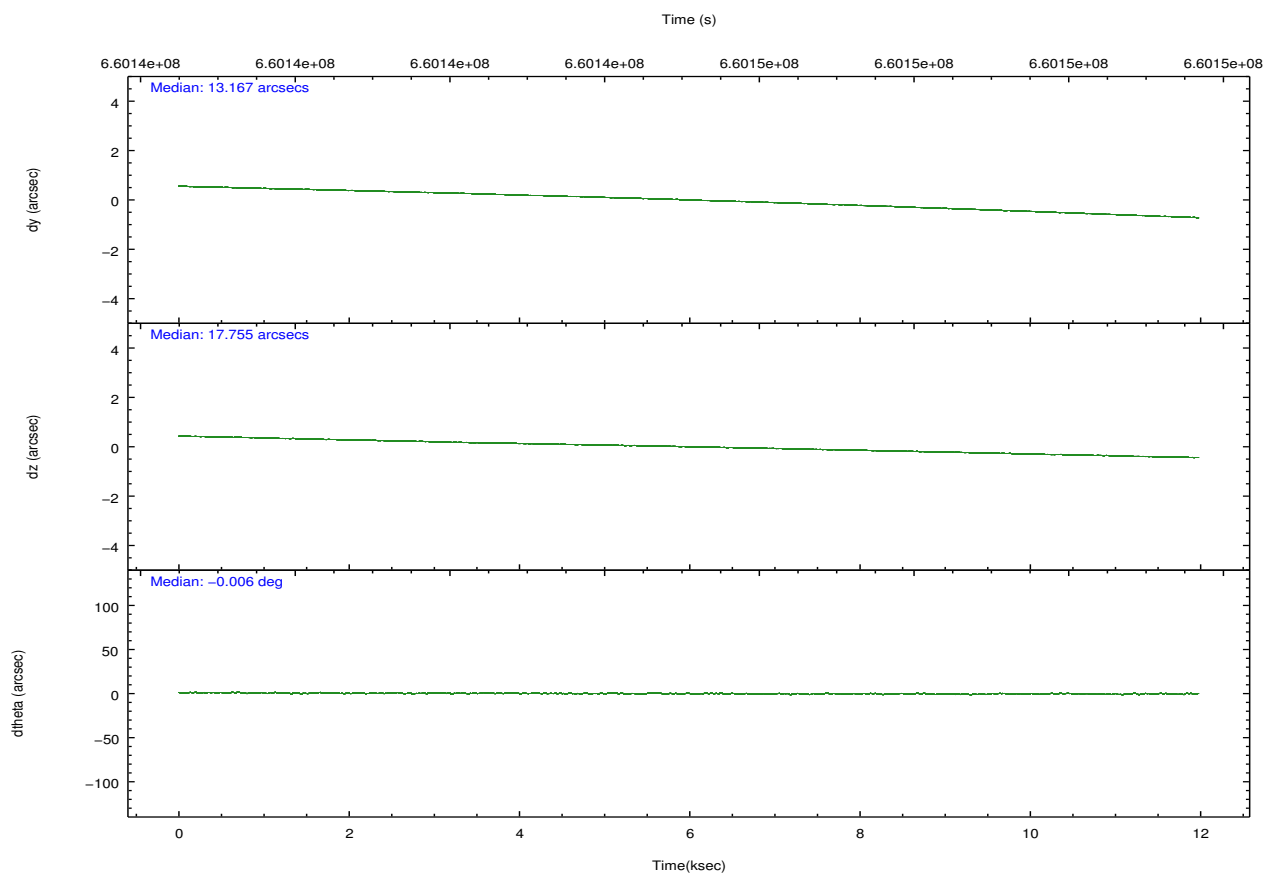
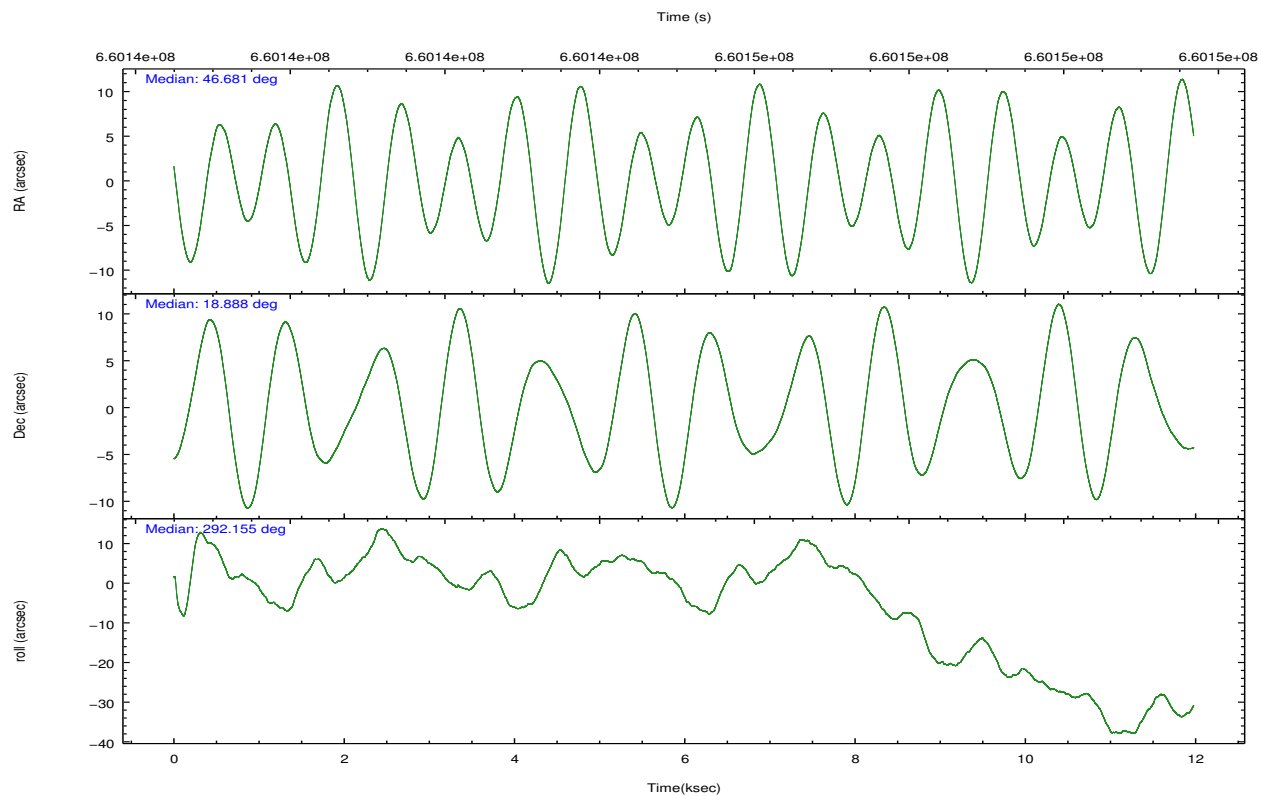
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4176	3126	3272	4167
	4%	3%	3%	3%
grade 1 events	69	47	37	156
	0%	0%	0%	0%
grade 2 events	2261	1924	2592	10468
	2%	2%	2%	9%
grade 3 events	926	1015	981	3923
	1%	1%	1%	3%
grade 4 events	1011	961	890	3885
	1%	1%	0%	3%
grade 5 events	3408	4094	4019	11484
	3%	4%	4%	9%
grade 6 events	1940	2060	2598	27764
	2%	2%	2%	23%
grade 7 events	78684	74506	79593	54198
	85%	84%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	46.657657	46.68080112070845	CCD I2 on	O1	Y
[deg] Pointing Dec	18.904261	18.88772052170661	CCD I3 on	Y	Y
[deg] Pointing Roll	292.006290	292.1554220594851	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	660139283.184000	660138907.32266	CCD S5 on	N	N
Observation start date	2018-12-02T12:00:14	2018-12-02T11:55:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	660151083.184000	660151912.52344	On-chip summing requested	N	N
Observation end date	2018-12-02T15:16:54	2018-12-02T15:31:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



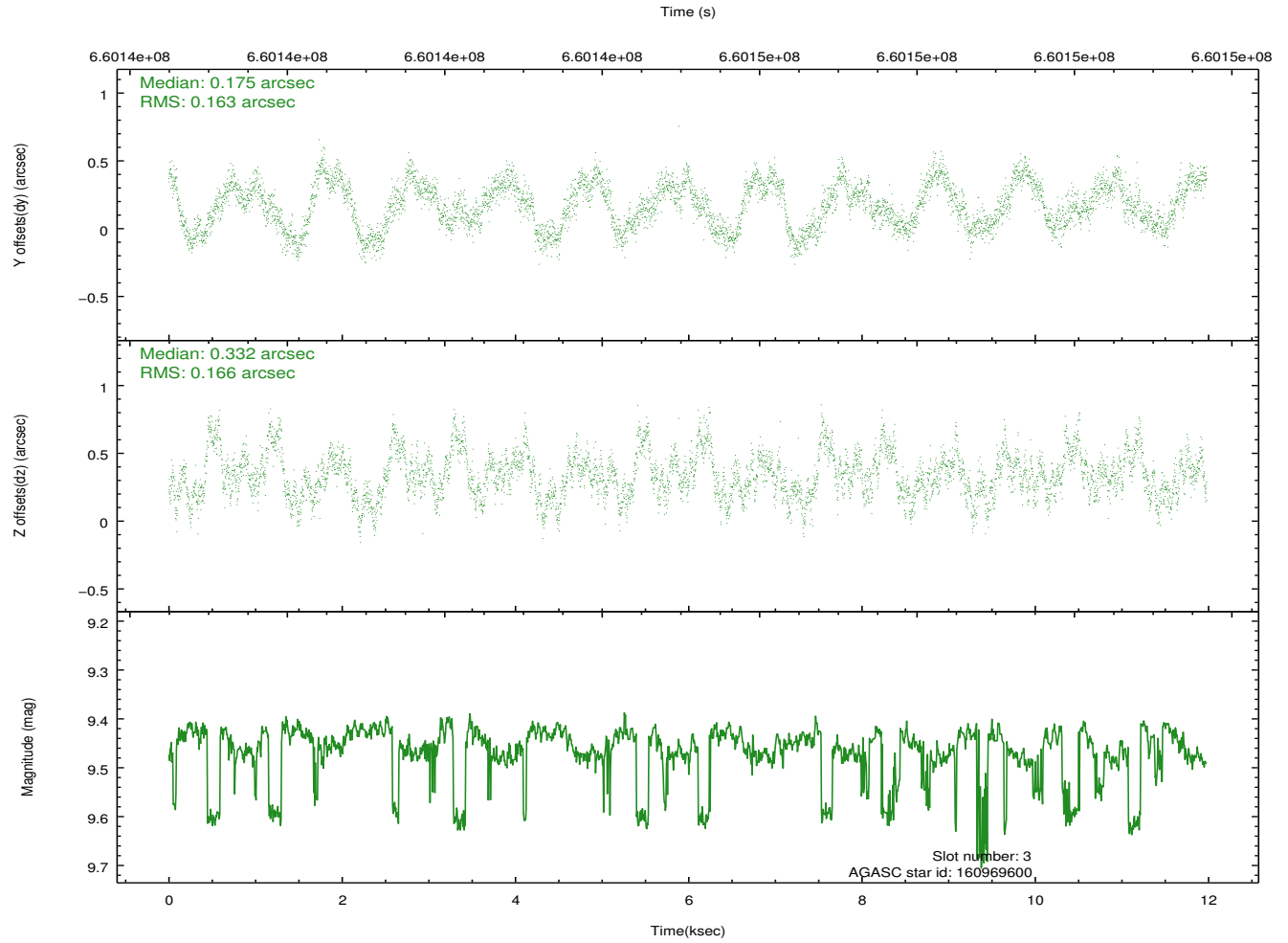
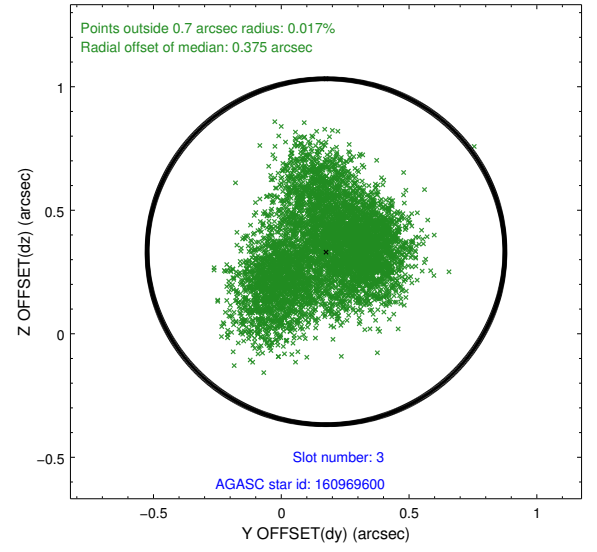
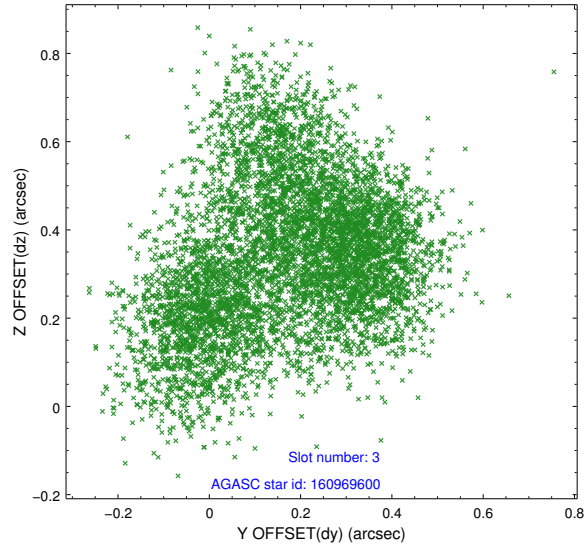


Slot Statistics

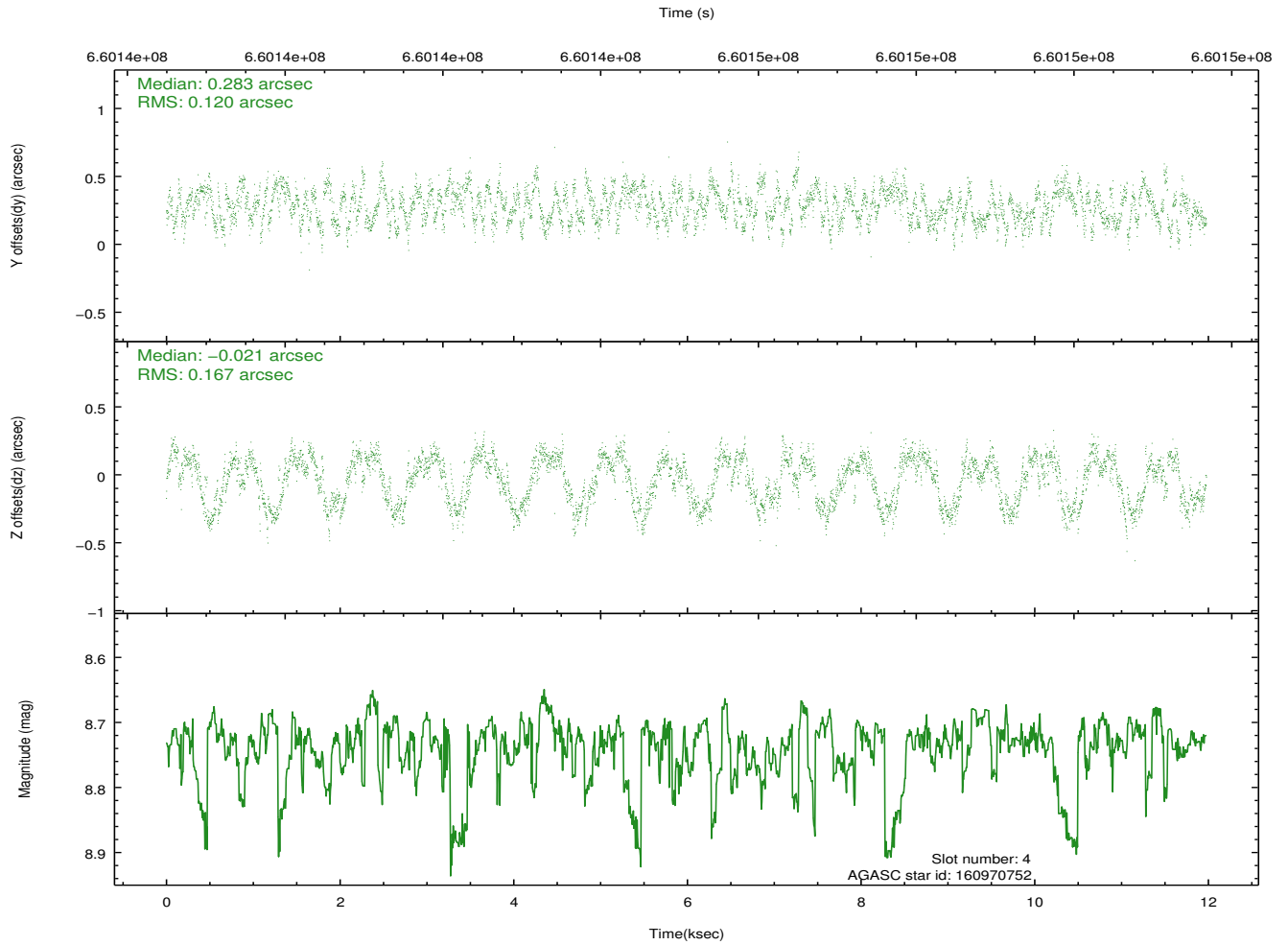
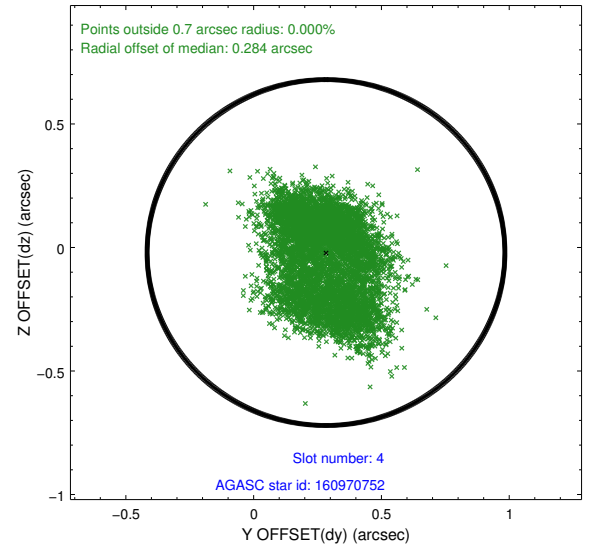
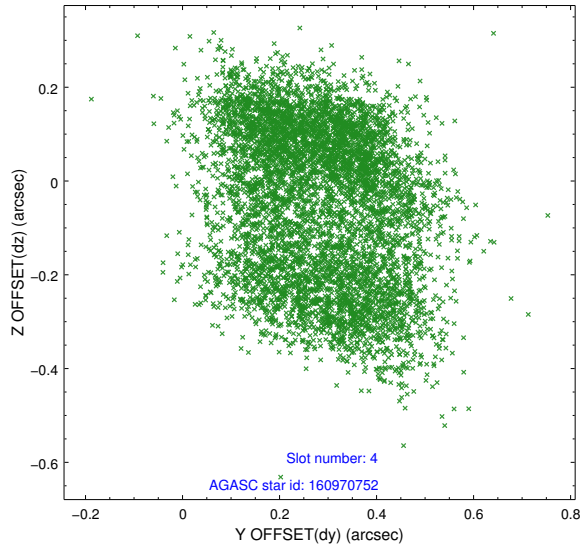
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2922	1.000	-0.252	-0.208	0.017	0.026	0.000000	0.000000	-766.25	-1739
1	FID		ACIS-S-4	7.16	2922	1.000	0.735	0.177	0.020	0.033	0.000000	0.000000	2147.76	169
2	FID		ACIS-S-5	7.14	2922	1.000	-0.515	0.040	0.014	0.026	0.000000	0.000000	-1818.88	162
3	GUIDE	used	160969600	9.46	5838	1.000	0.175	0.332	0.253	0.384	46.119625	19.240769	-1810.79	-1239
4	GUIDE	used	160970752	8.73	5838	1.000	0.283	-0.021	0.224	0.332	46.447391	18.179789	2148.28	-1643
5	GUIDE	used	160971216	9.03	5839	1.000	0.099	-0.124	0.171	0.291	46.546179	18.182525	2266.51	-1326
6	GUIDE	used	160971632	9.41	5837	1.000	-0.194	0.205	0.274	0.463	46.728780	18.585125	1156.31	-205
7	GUIDE	used	160960896	9.29	5836	1.000	-0.351	-0.347	0.136	0.224	47.061243	18.753698	1016.58	1073

2.4 Star Slots

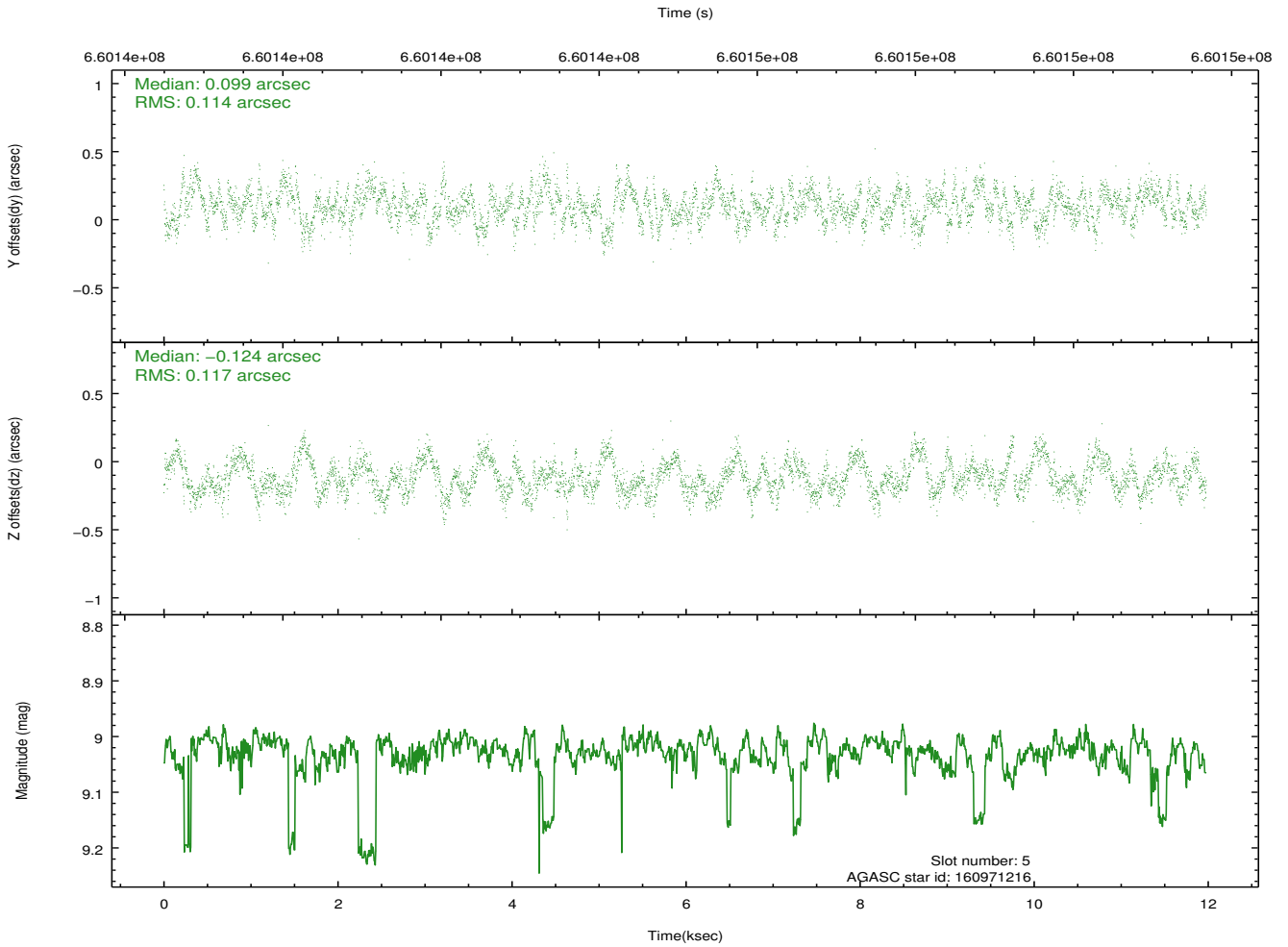
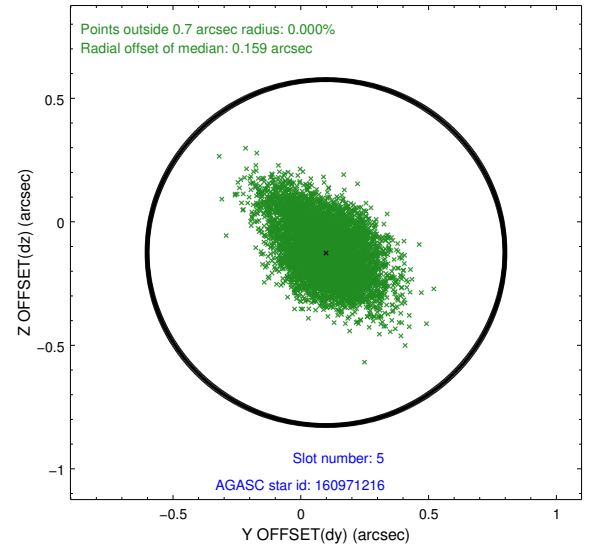
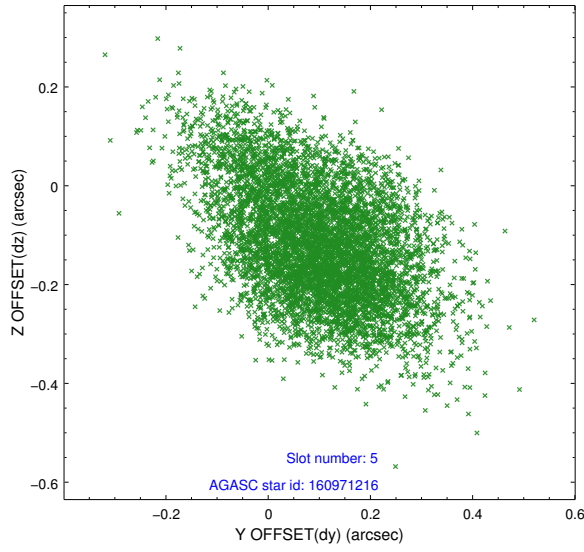
2.4.1 Slot 3



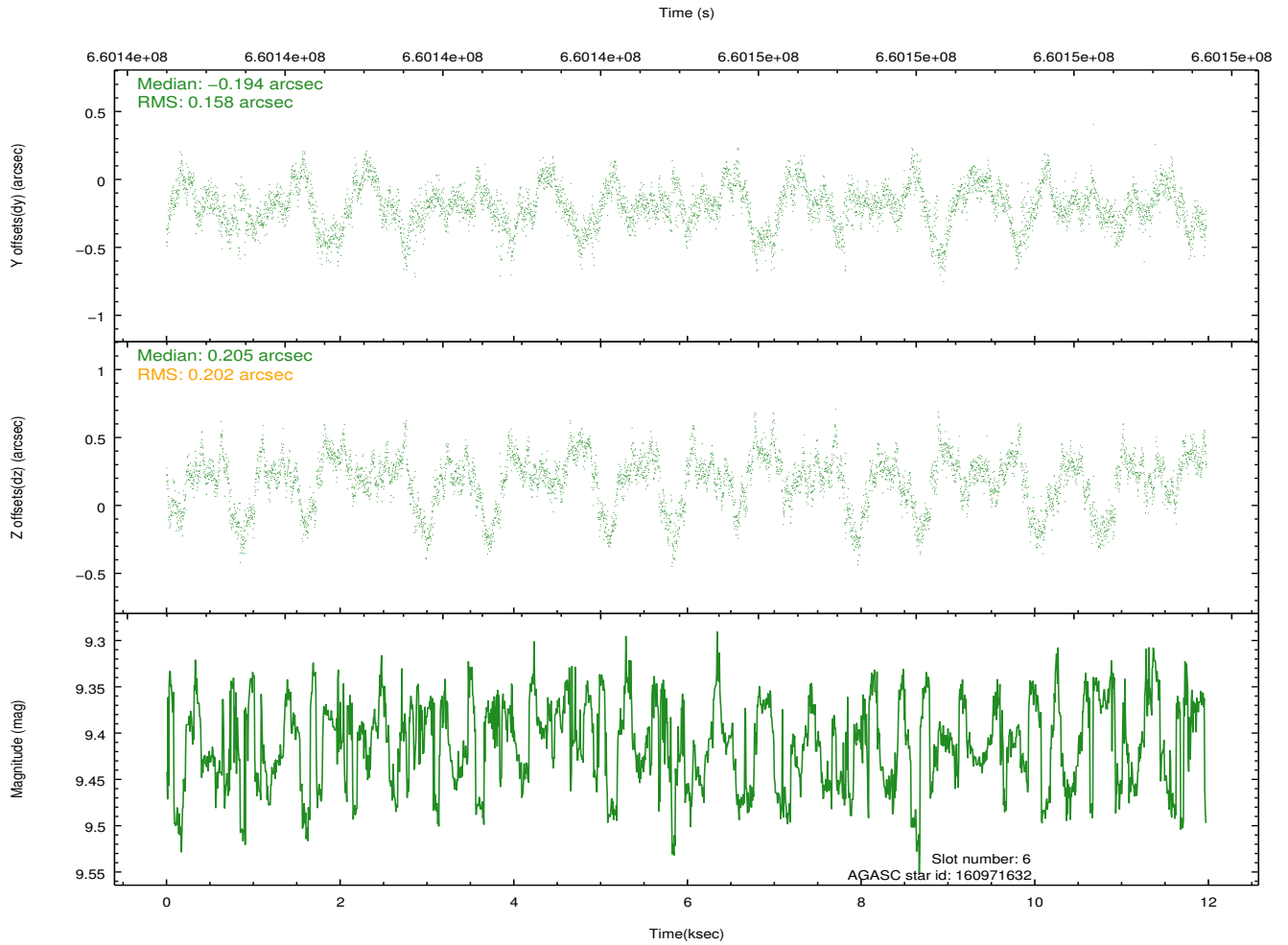
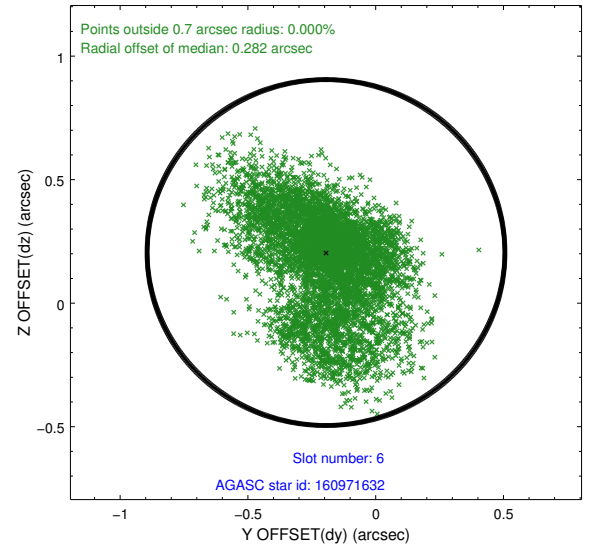
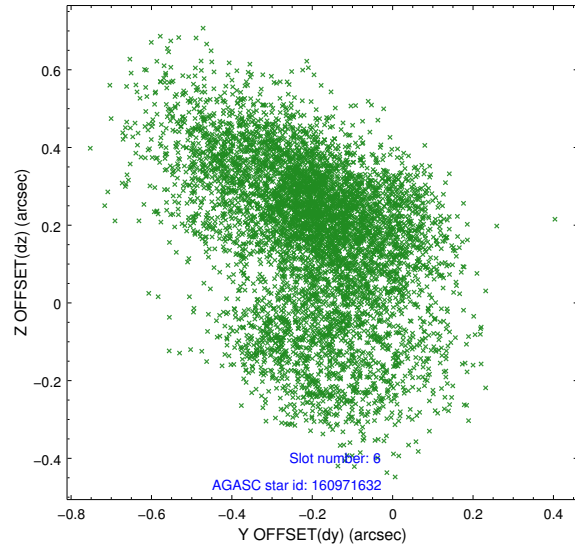
2.4.2 Slot 4



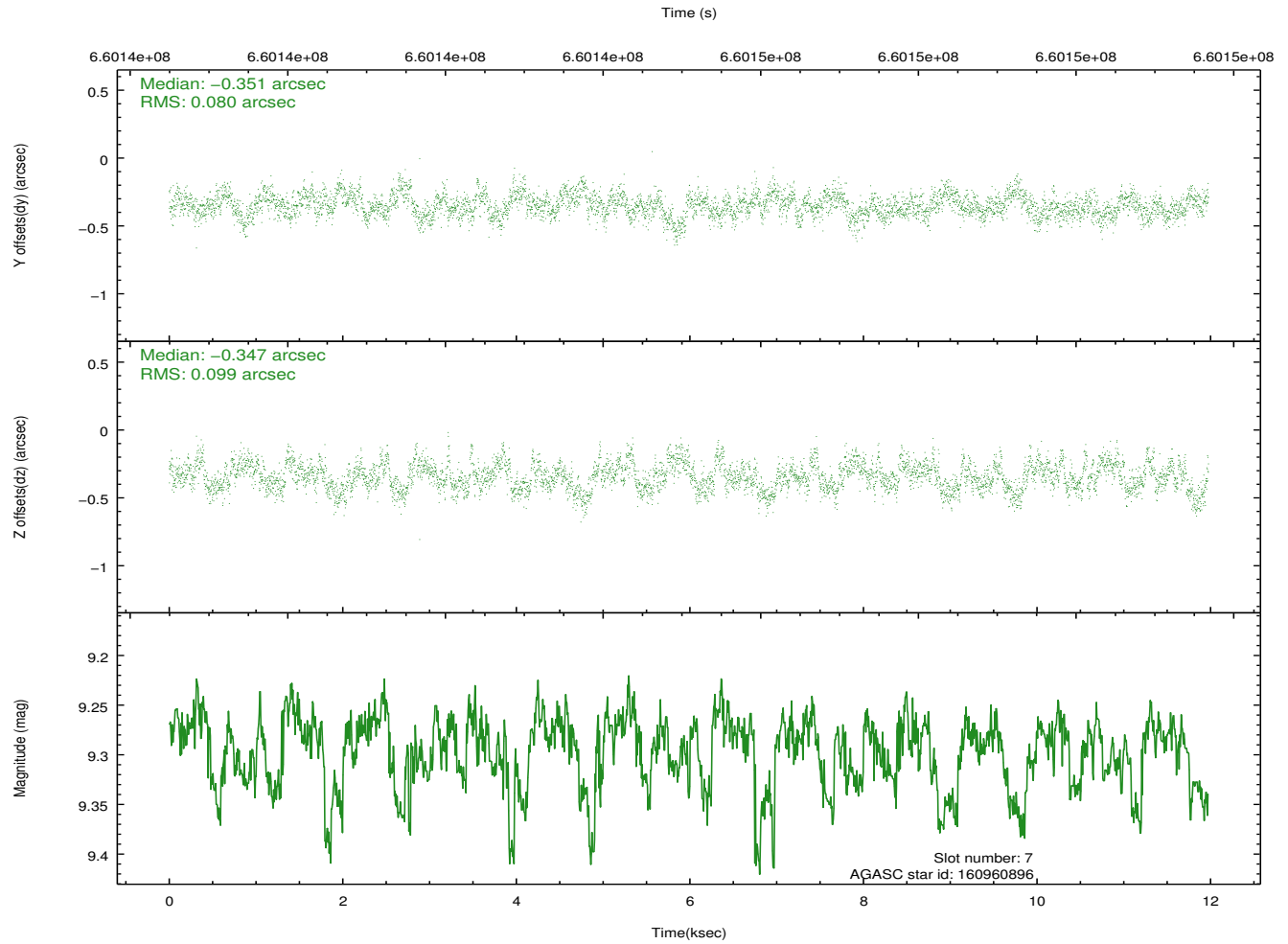
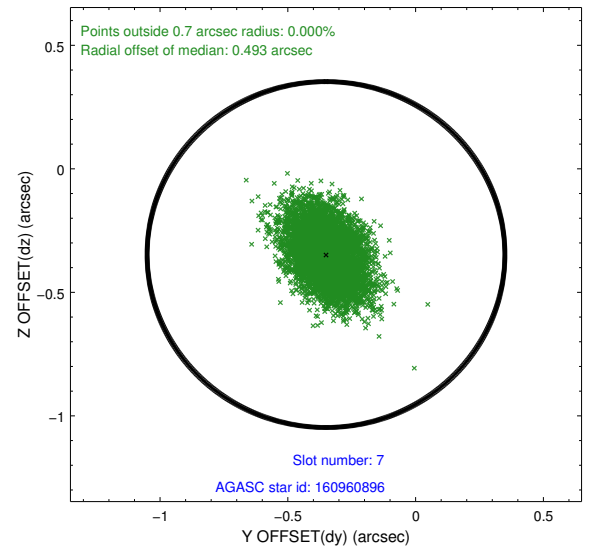
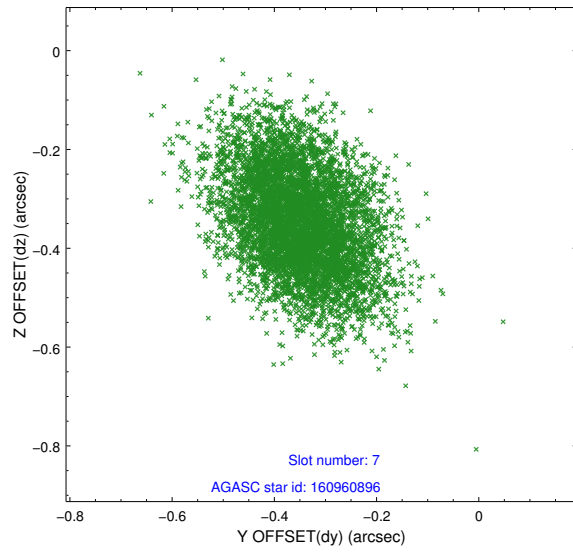
2.4.3 Slot 5



2.4.4 Slot 6

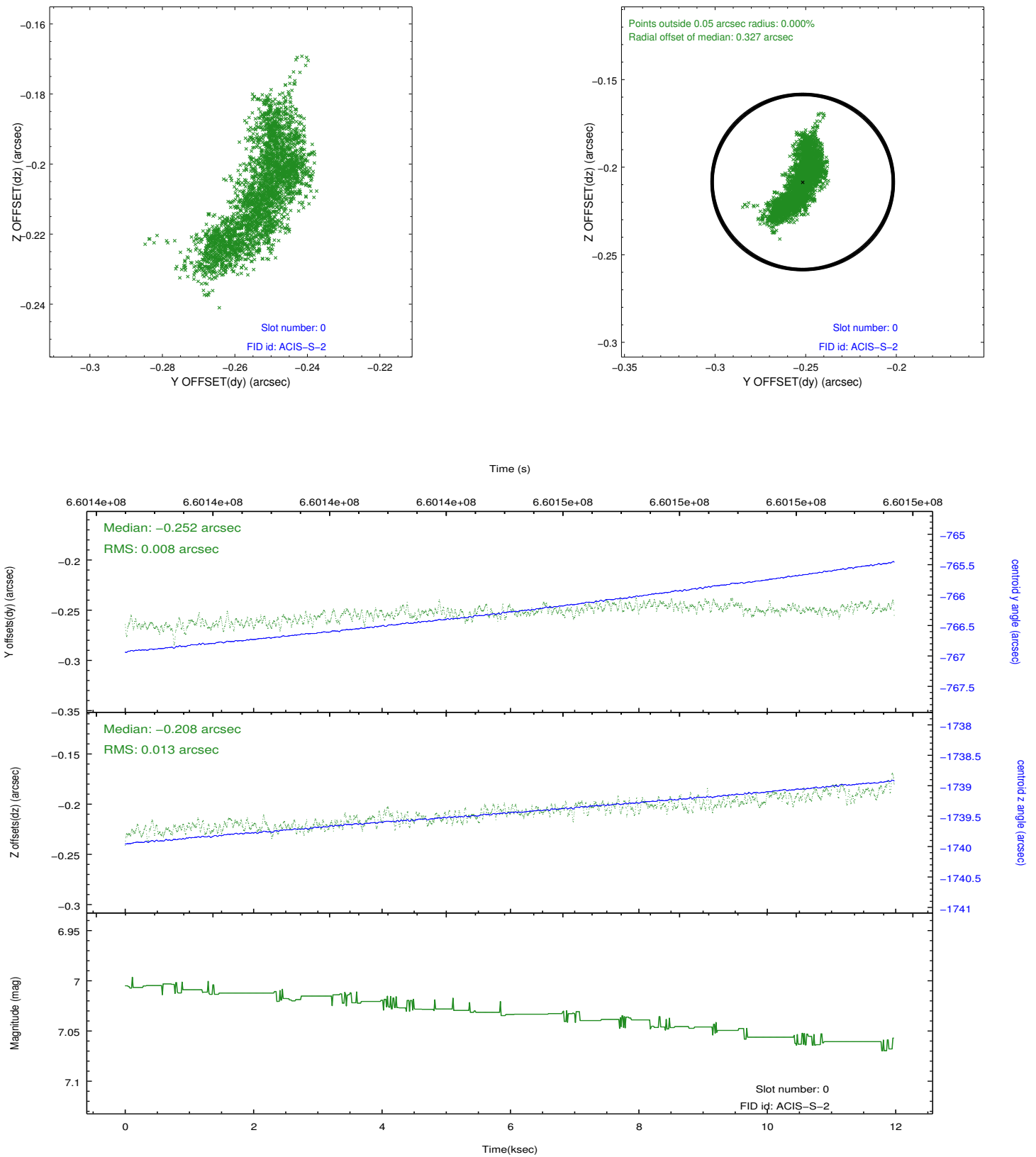


2.4.5 Slot 7

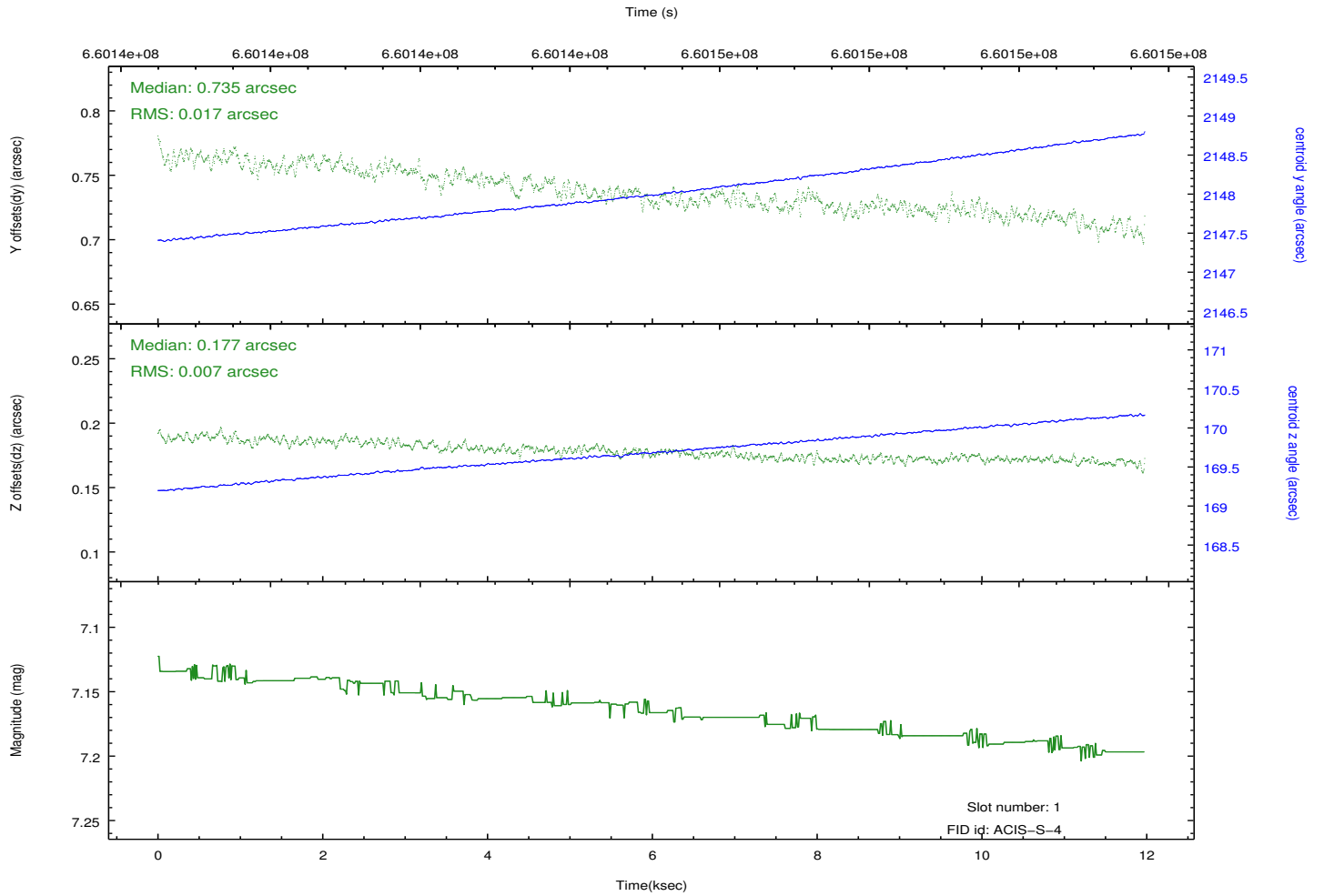
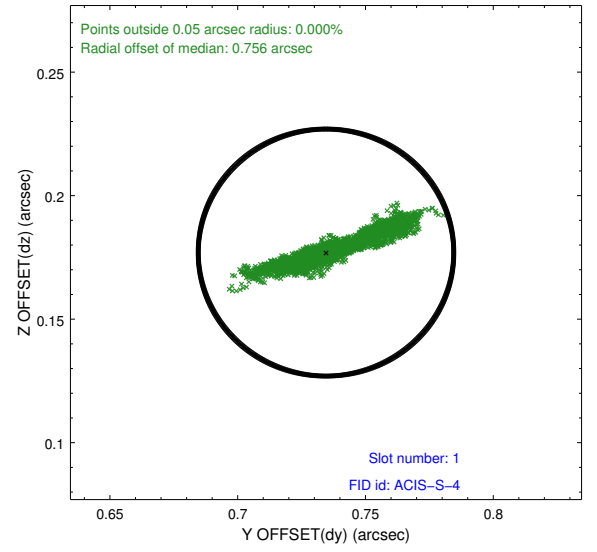
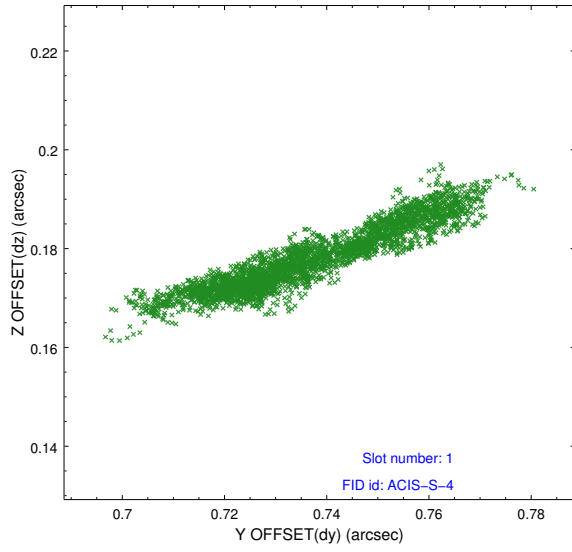


2.5 FID Slots

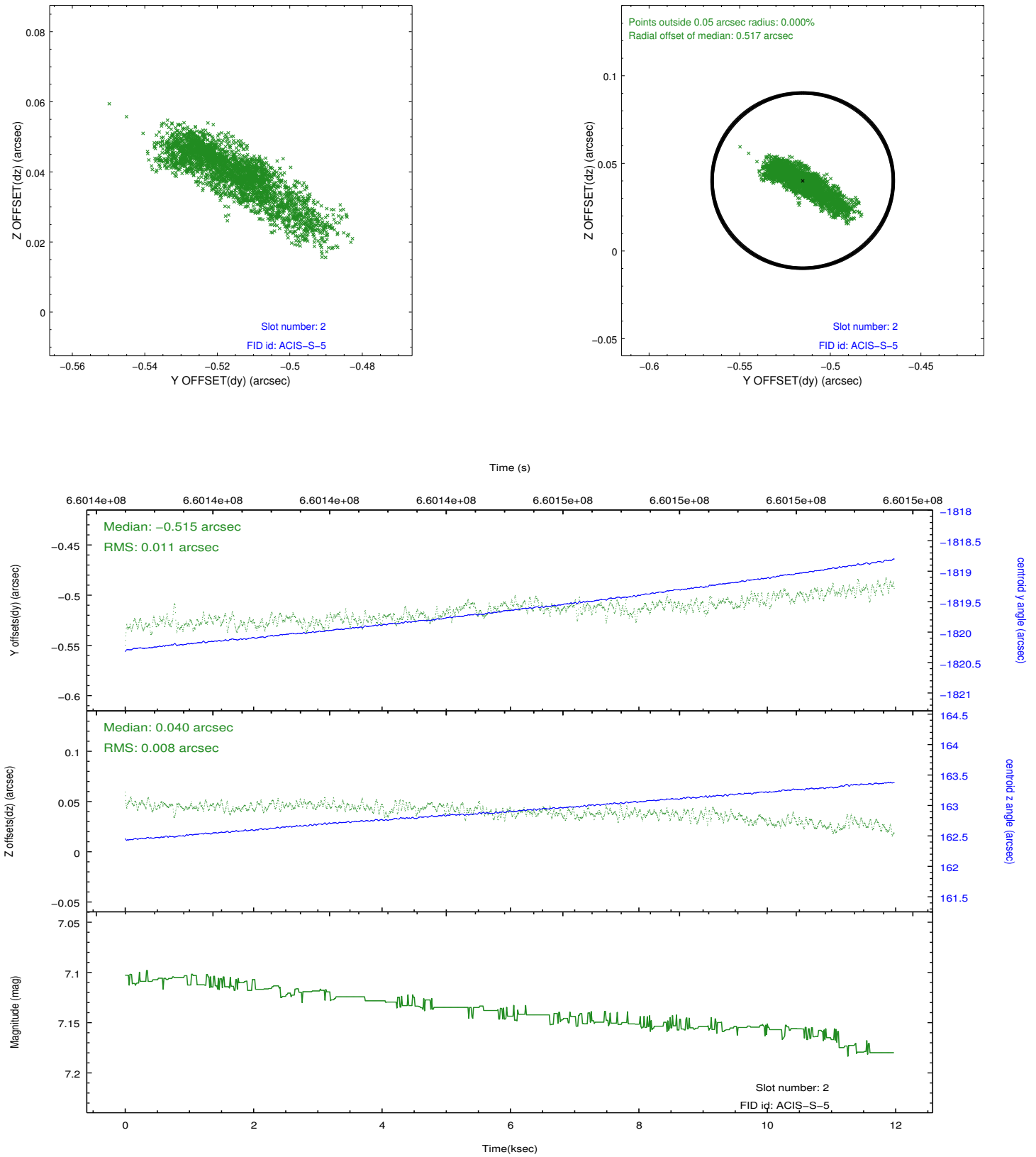
2.5.1 Slot 0



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)	2018.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.707592633963

A.2 Comments