

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19551 - L2 Version 1
Chandra X-Ray Center

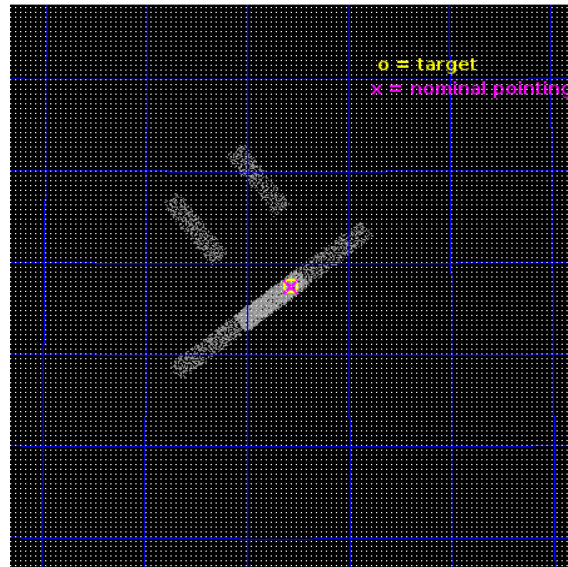
L2 Processing Date : Mar 3 2017

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1 Front

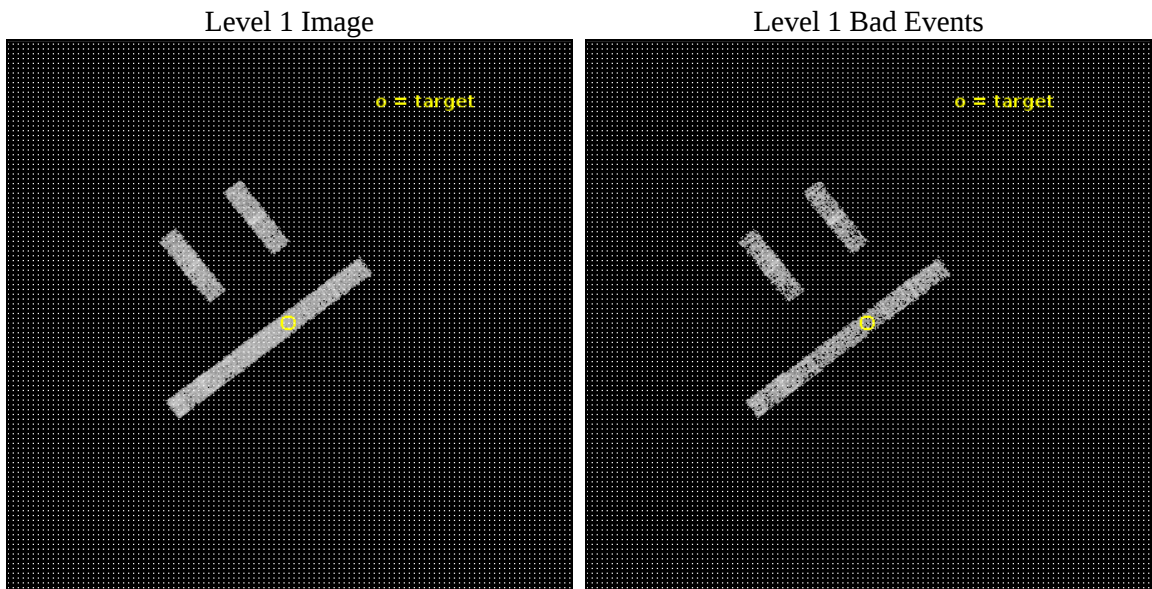
seq_num	703399	Sequence number
obs_id	19551	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ123734.47+444731.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.39375	Observer's specified target RA [deg]
dec_targ	44.792139	Observer's specified target Dec [deg]
ra_nom	189.39109418023	Nominal RA [deg]
dec_nom	44.790368287525	Nominal Dec [deg]
roll_nom	142.18099521713	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3069.7765548229	Sum of GTIs [s]
livetime	2948.759466325	Livetime [s]
ontime2	3069.6123948097	Sum of GTIs [s]
ontime3	3069.6944748163	Sum of GTIs [s]
ontime6	3069.7355148792	Sum of GTIs [s]
ontime7	3069.7765548229	Sum of GTIs [s]
ontime8	3069.6534348726	Sum of GTIs [s]
l2events	5777	Number of level 2 events



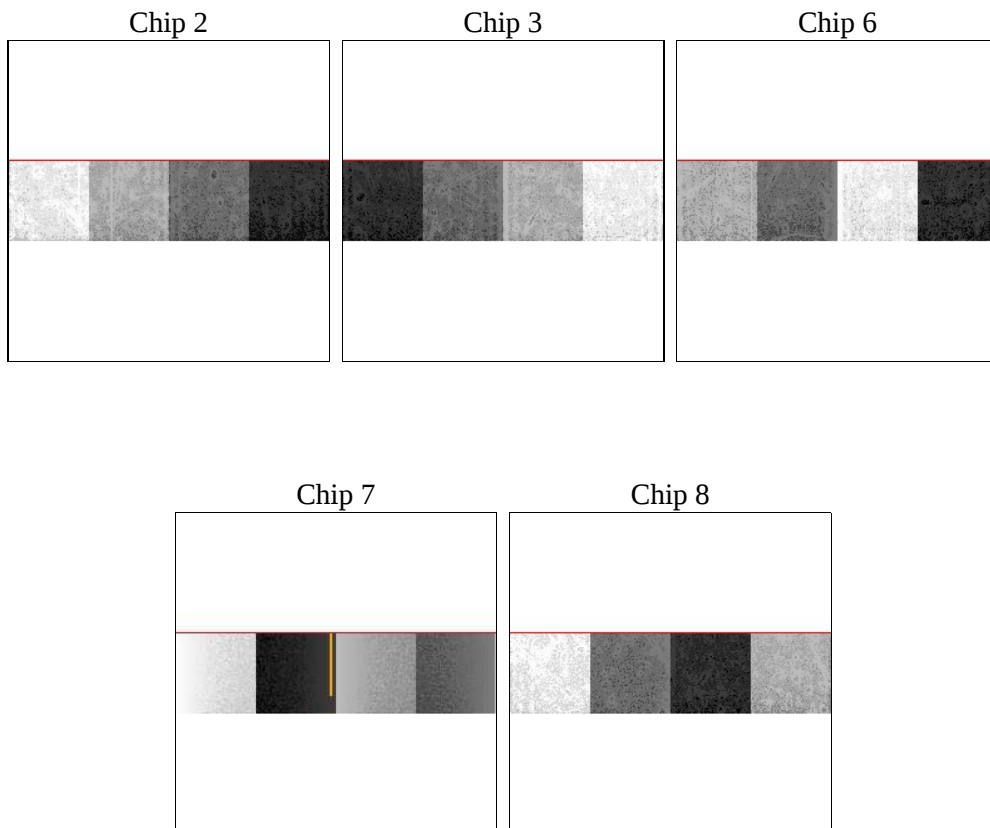
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3069.7765548229	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	3069.6123948097	Sum of GTIs [s]
date	2017-03-03T16:23:47	Date and time of file creation	ontime3	3069.6944748163	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3069.7355148792	Sum of GTIs [s]
			ontime7	3069.7765548229	Sum of GTIs [s]
			ontime8	3069.6534348726	Sum of GTIs [s]
			l1events	35950	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6066	6324	6919	7817	8824
rejected events	5385	5683	6182	4305	6742
rejected %	88%	89%	89%	55%	76%

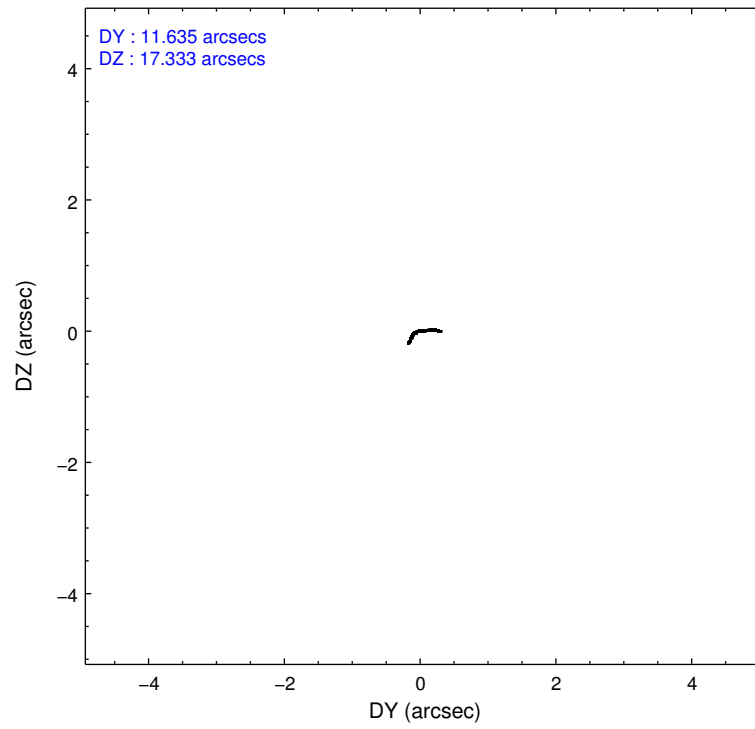
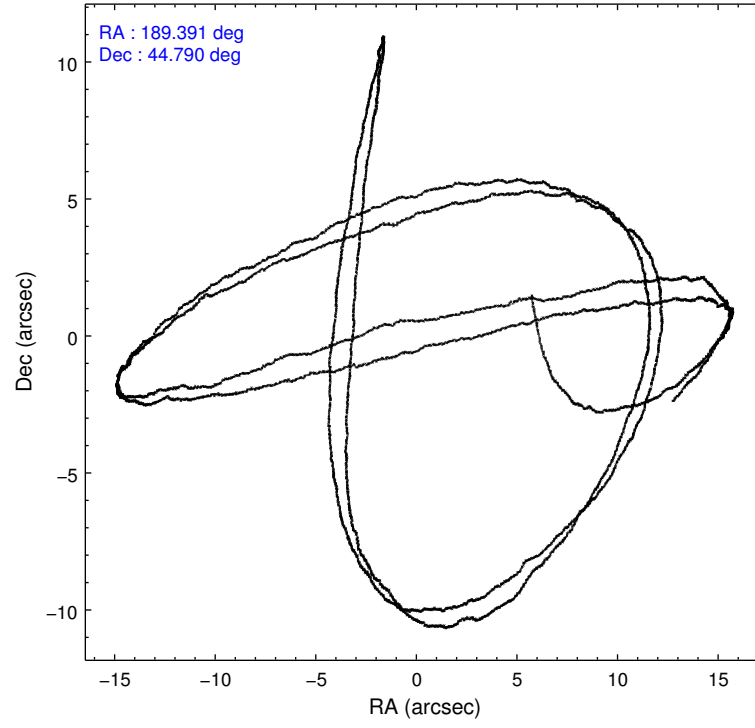
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	206	193	221	358	506
	3%	3%	3%	4%	5%
grade 1 events	2	3	2	3	10
	0%	0%	0%	0%	0%
grade 2 events	140	142	135	700	505
	2%	2%	1%	8%	5%
grade 3 events	104	99	107	377	213
	1%	1%	1%	4%	2%
grade 4 events	102	79	109	372	189
	1%	1%	1%	4%	2%
grade 5 events	230	257	255	807	404
	3%	4%	3%	10%	4%
grade 6 events	131	128	166	1706	669
	2%	2%	2%	21%	7%
grade 7 events	5151	5423	5924	3494	6328
	84%	85%	85%	44%	71%

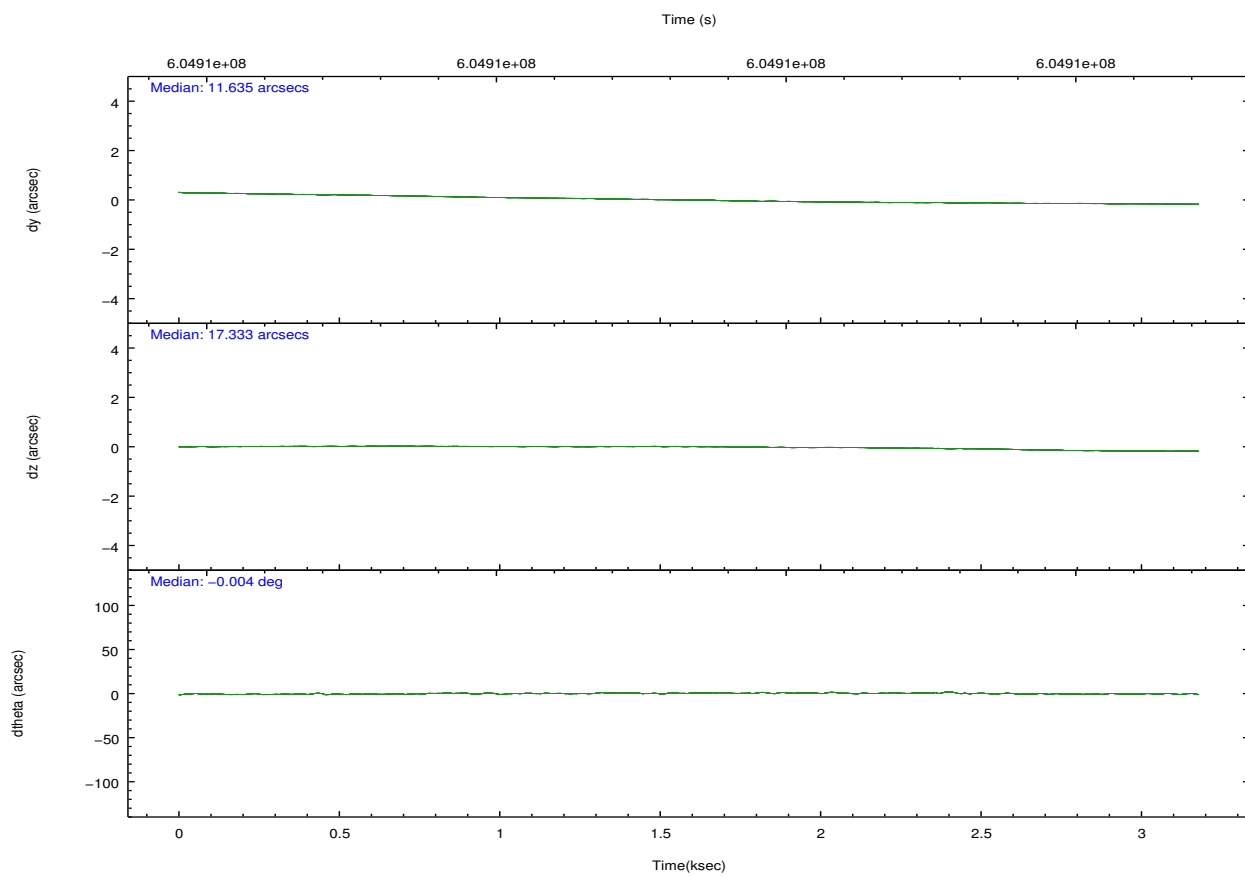
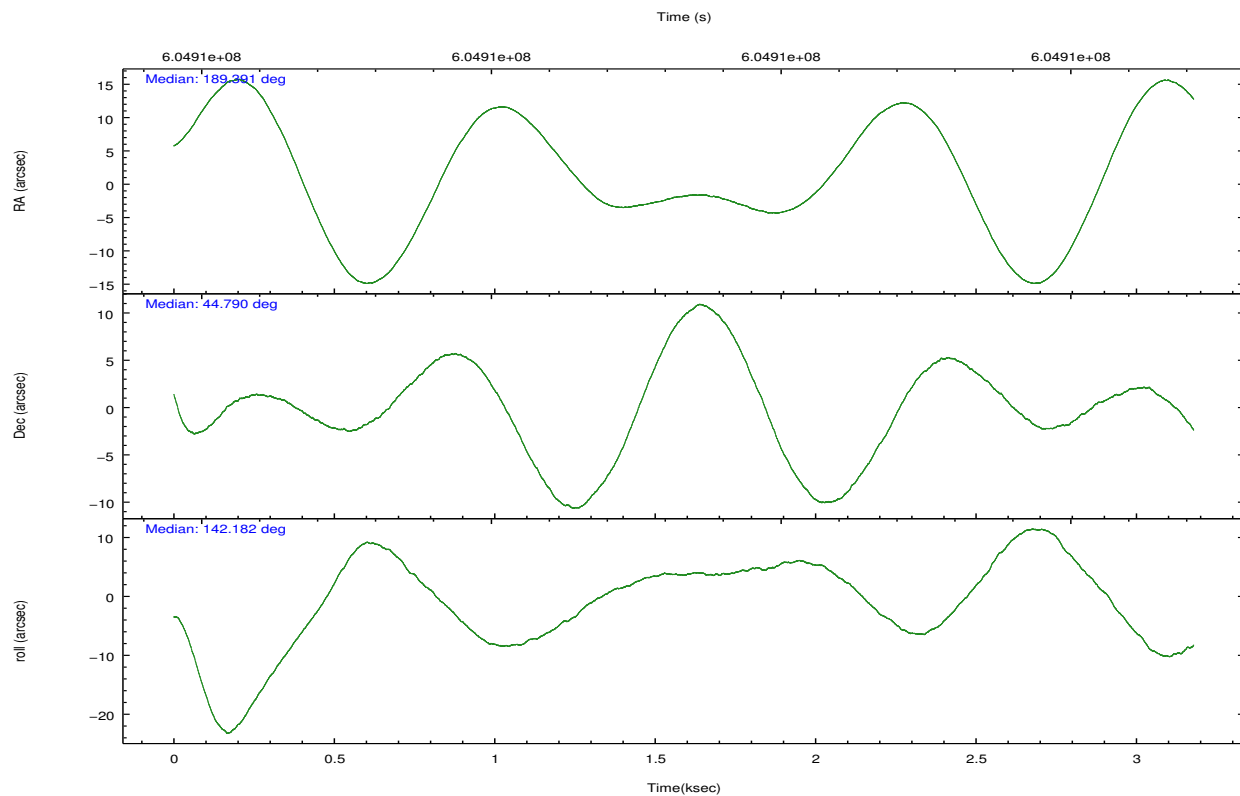
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	189.429257	189.3910941802308
[deg] Pointing Dec	44.786963	44.79036828752499
[deg] Pointing Roll	141.997443	142.1809952171273
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	604908266.184000	604907324.29488
Observation start date	2017-03-03T06:03:17	2017-03-03T05:48:44
[s] Observation end time (MET)	604911266.184000	604912781.9076999
Observation end date	2017-03-03T06:53:17	2017-03-03T07:19:41
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	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



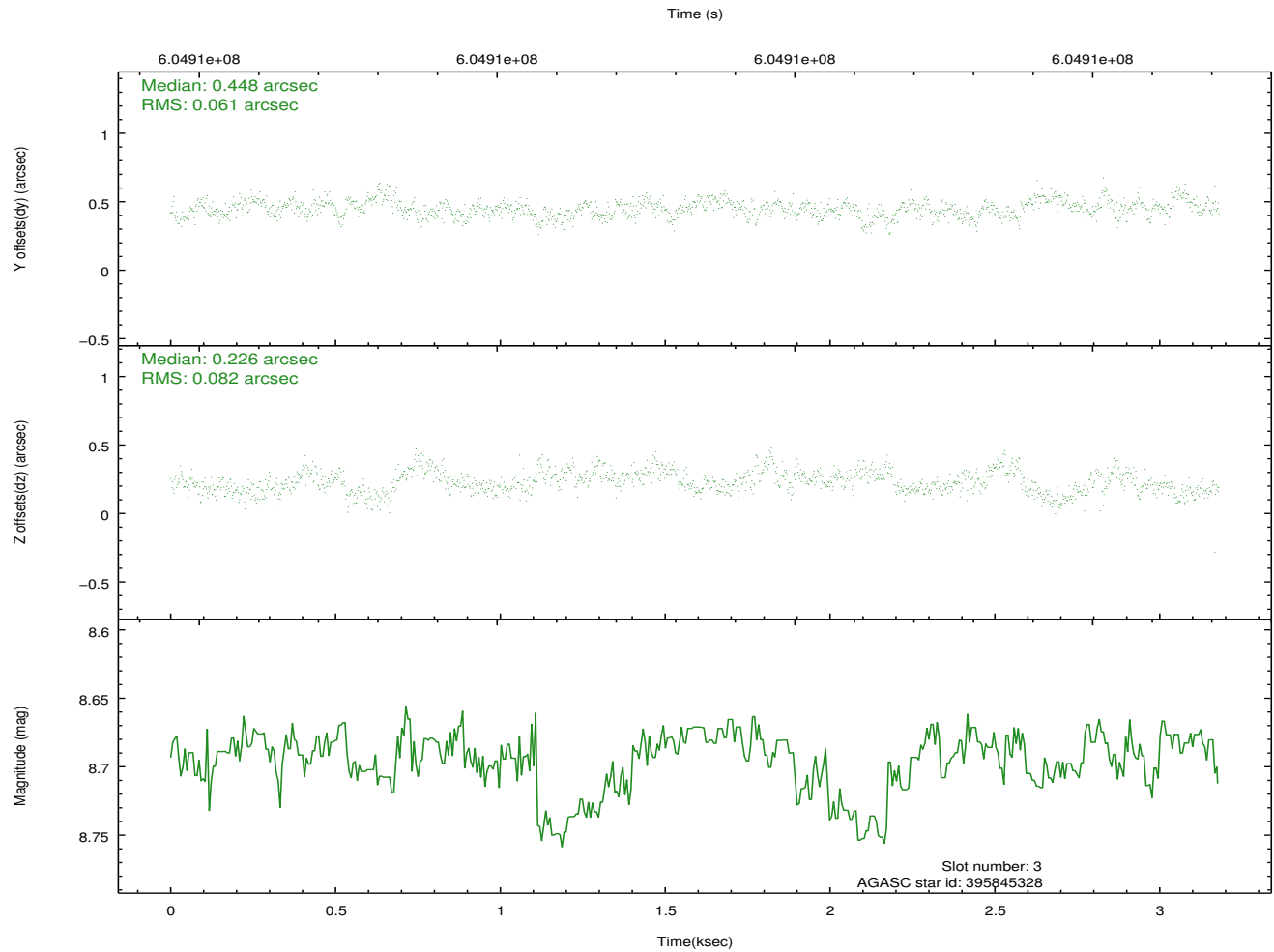
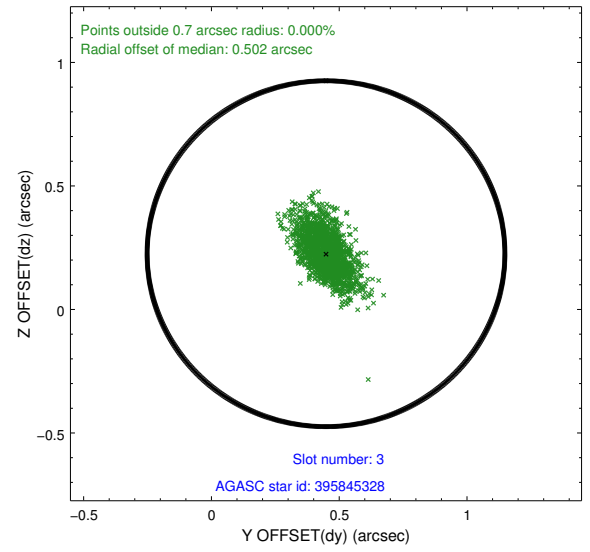
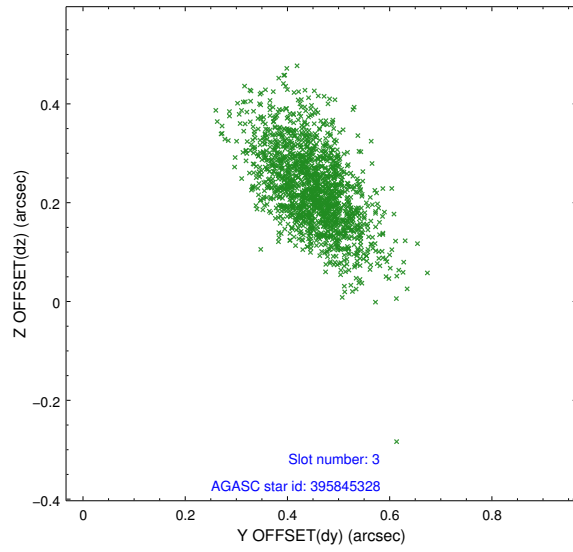


Slot Statistics

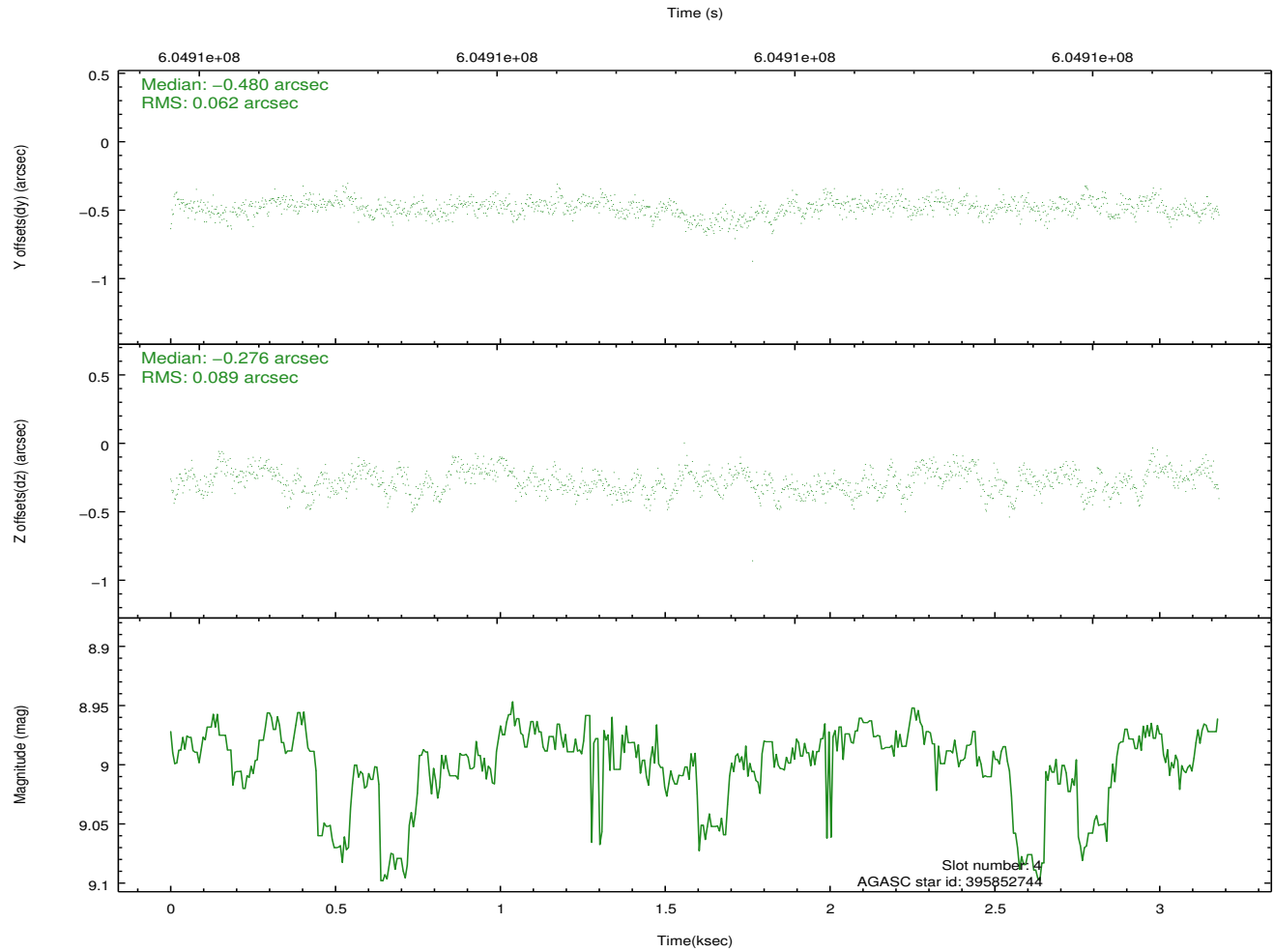
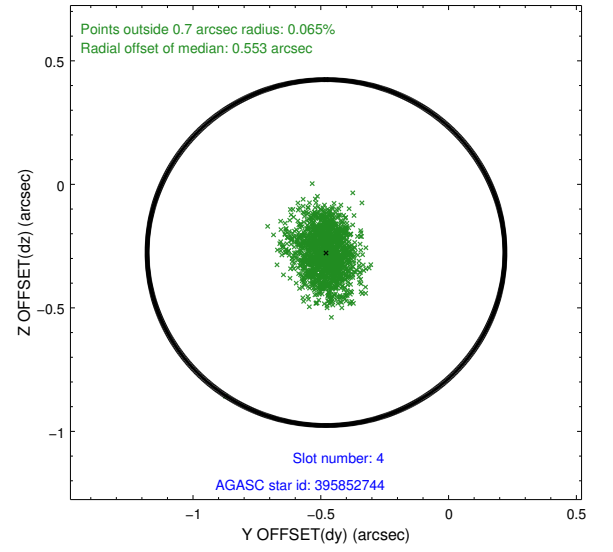
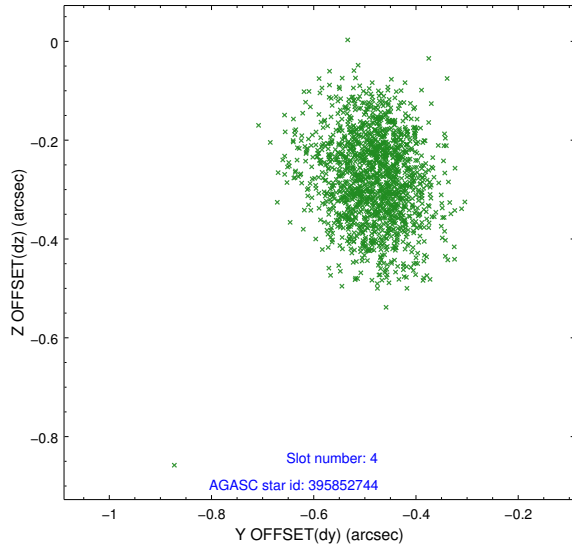
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	776	-0.132	-0.086	0.008	0.014	0.000000	0.000000	-764.67	-1738.82
1	FID		ACIS-S-4	7.13	776	0.372	0.087	0.006	0.010	0.000000	0.000000	2148.20	167.75
2	FID		ACIS-S-5	7.13	775	-0.270	0.008	0.009	0.017	0.000000	0.000000	-1815.07	163.62
3	GUIDE	used	395845328	8.69	1552	0.448	0.226	0.103	0.190	189.604110	44.103880	-1868.92	1660.03
4	GUIDE	used	395852744	8.99	1550	-0.480	-0.276	0.114	0.187	188.816230	44.435220	464.65	1964.83
5	GUIDE	used	395853848	8.47	1552	-0.093	-0.192	0.125	0.194	189.124914	44.899525	862.96	159.15
6	GUIDE	used	452985792	7.41	1552	0.011	0.144	0.131	0.210	189.636500	45.217095	542.32	-1541.41
7	GUIDE	used	453001080	8.90	1550	0.117	0.110	0.161	0.247	189.182808	45.520589	2117.98	-1699.46

2.4 Star Slots

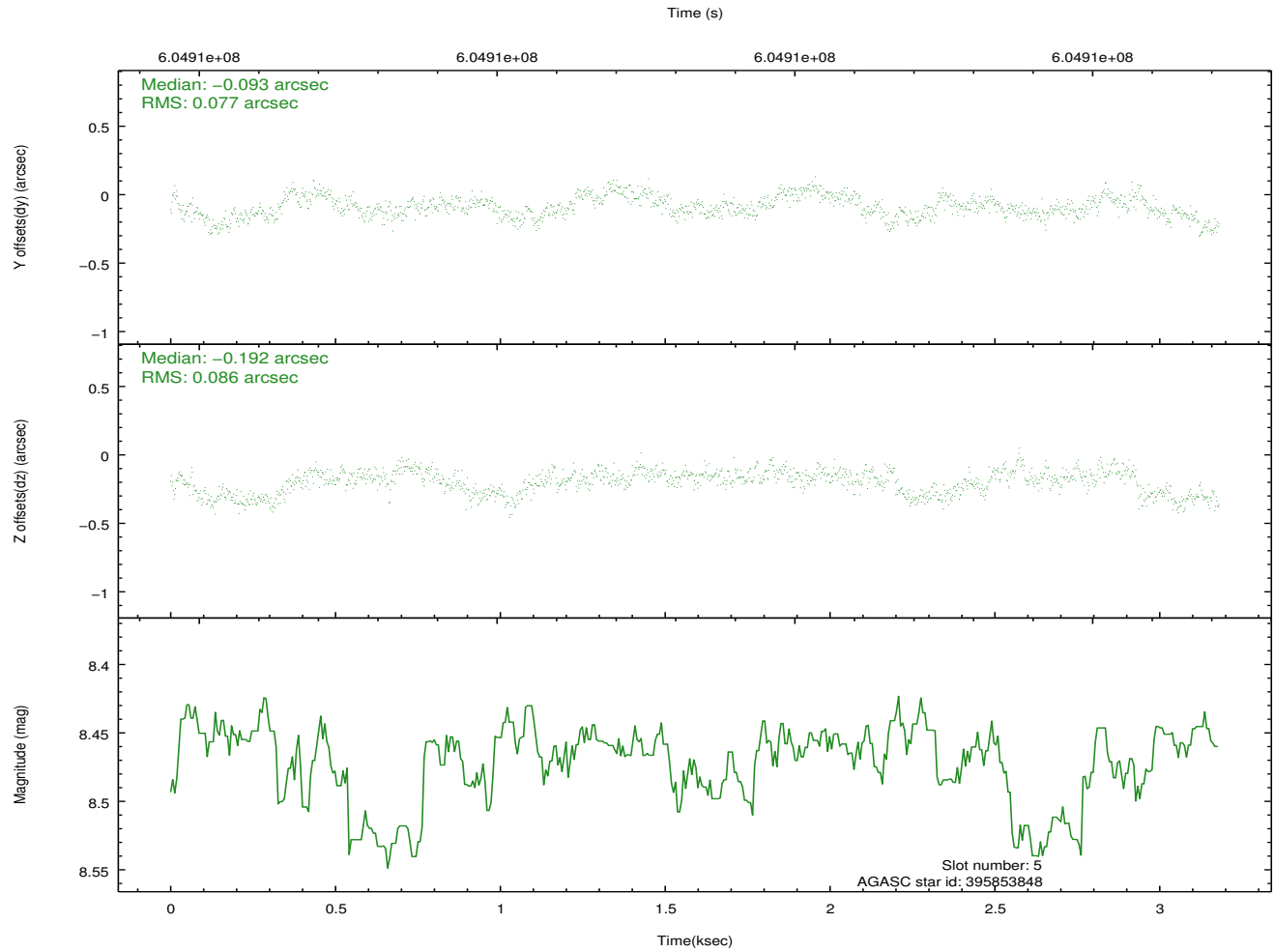
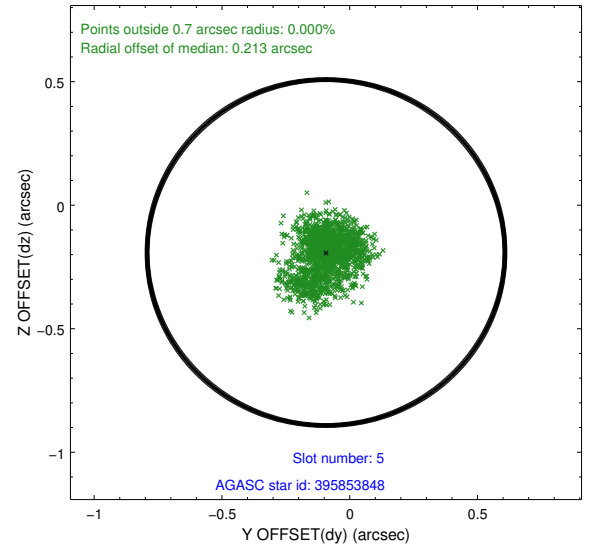
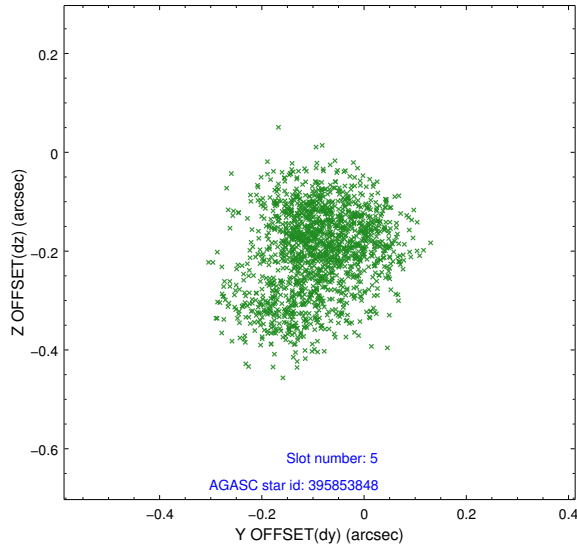
2.4.1 Slot 3



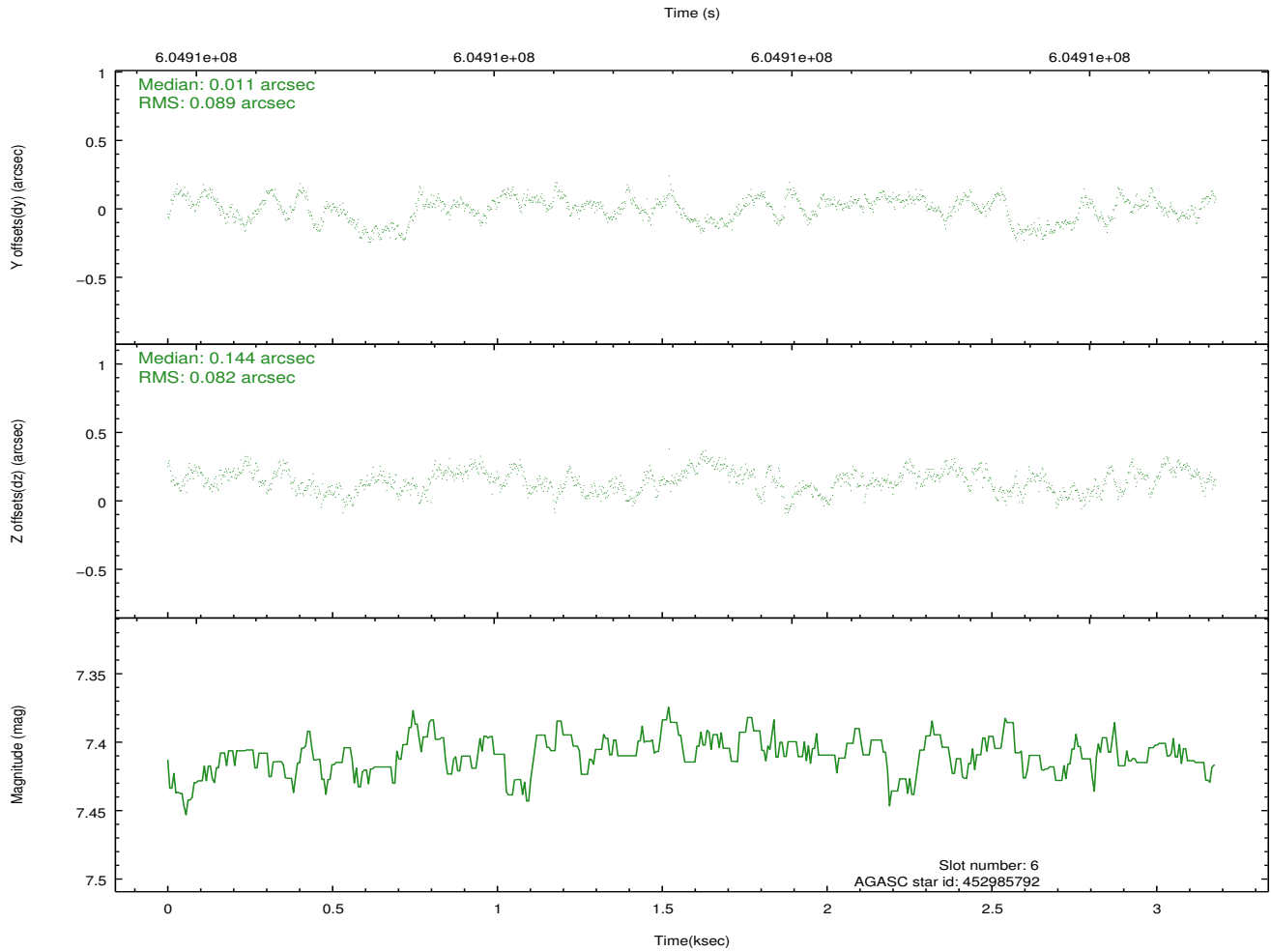
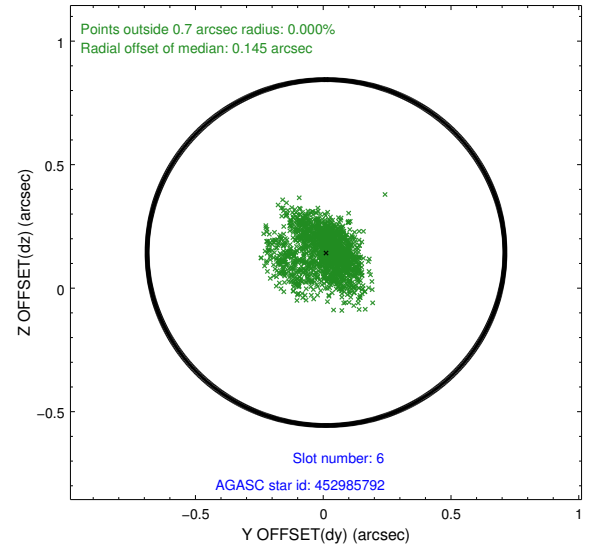
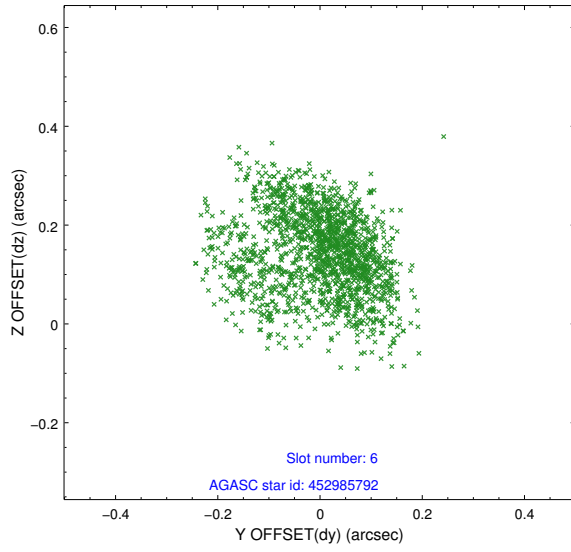
2.4.2 Slot 4



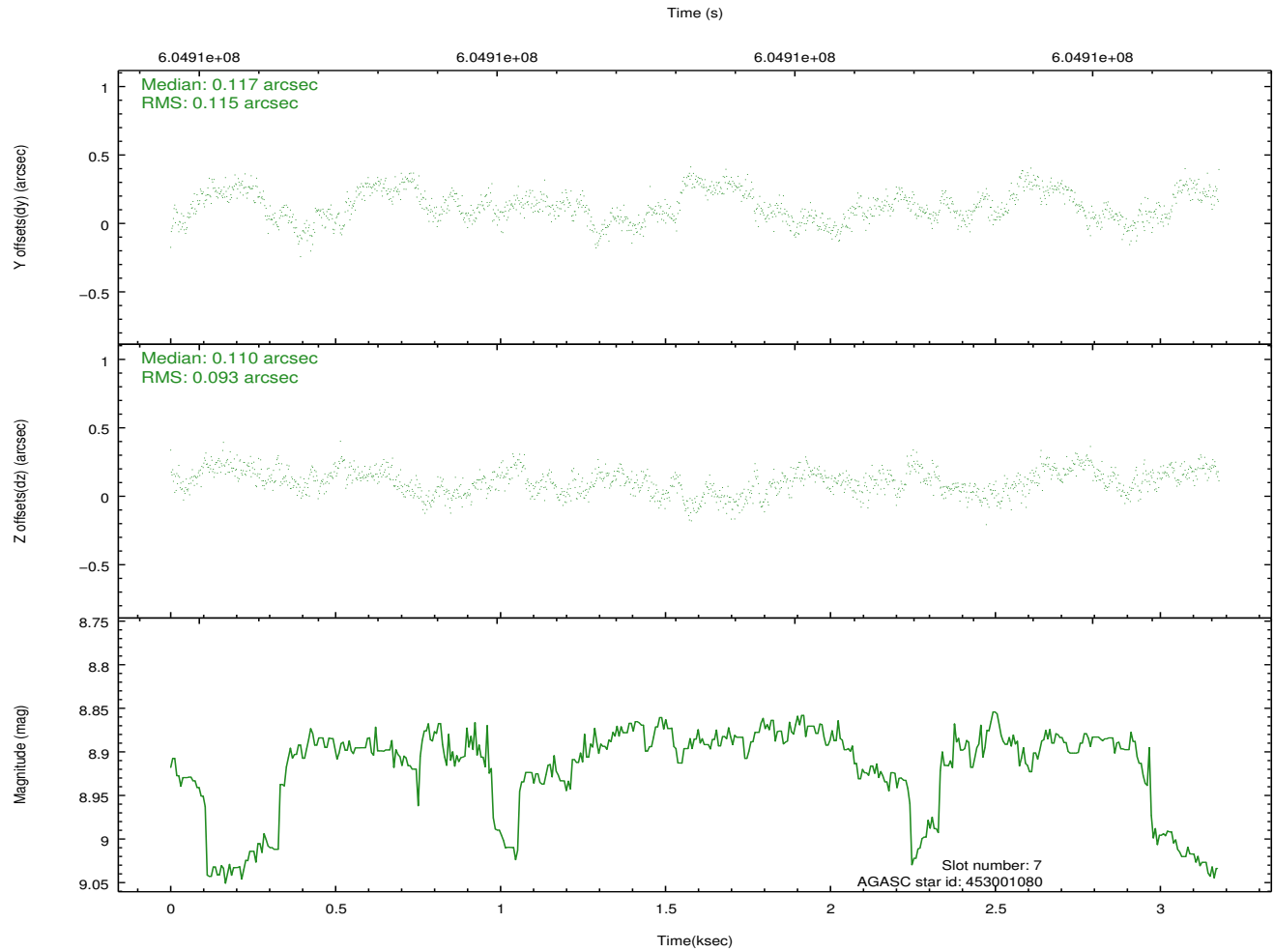
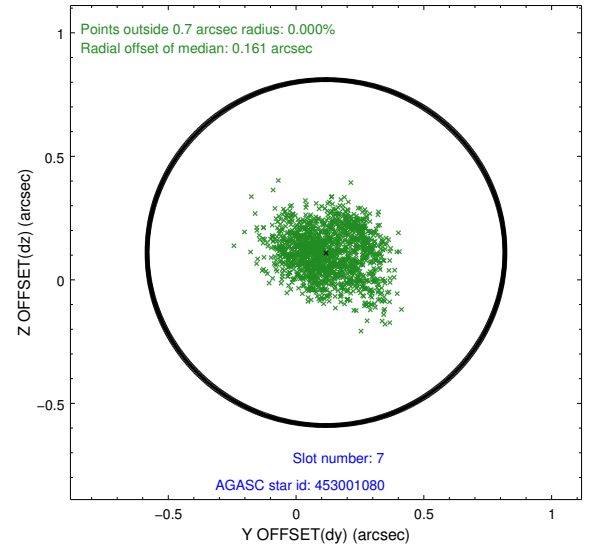
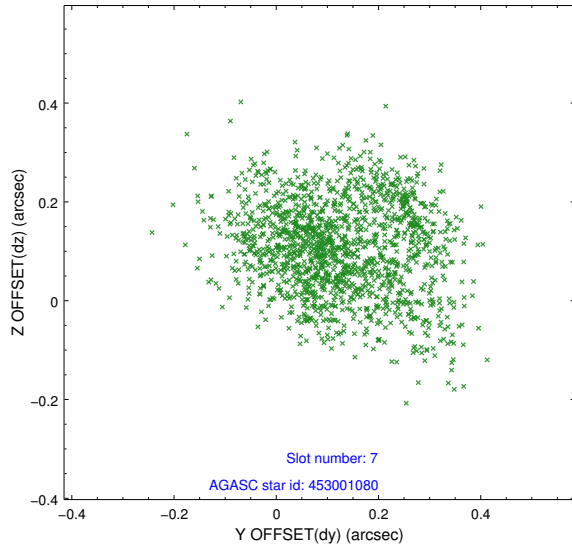
2.4.3 Slot 5



2.4.4 Slot 6

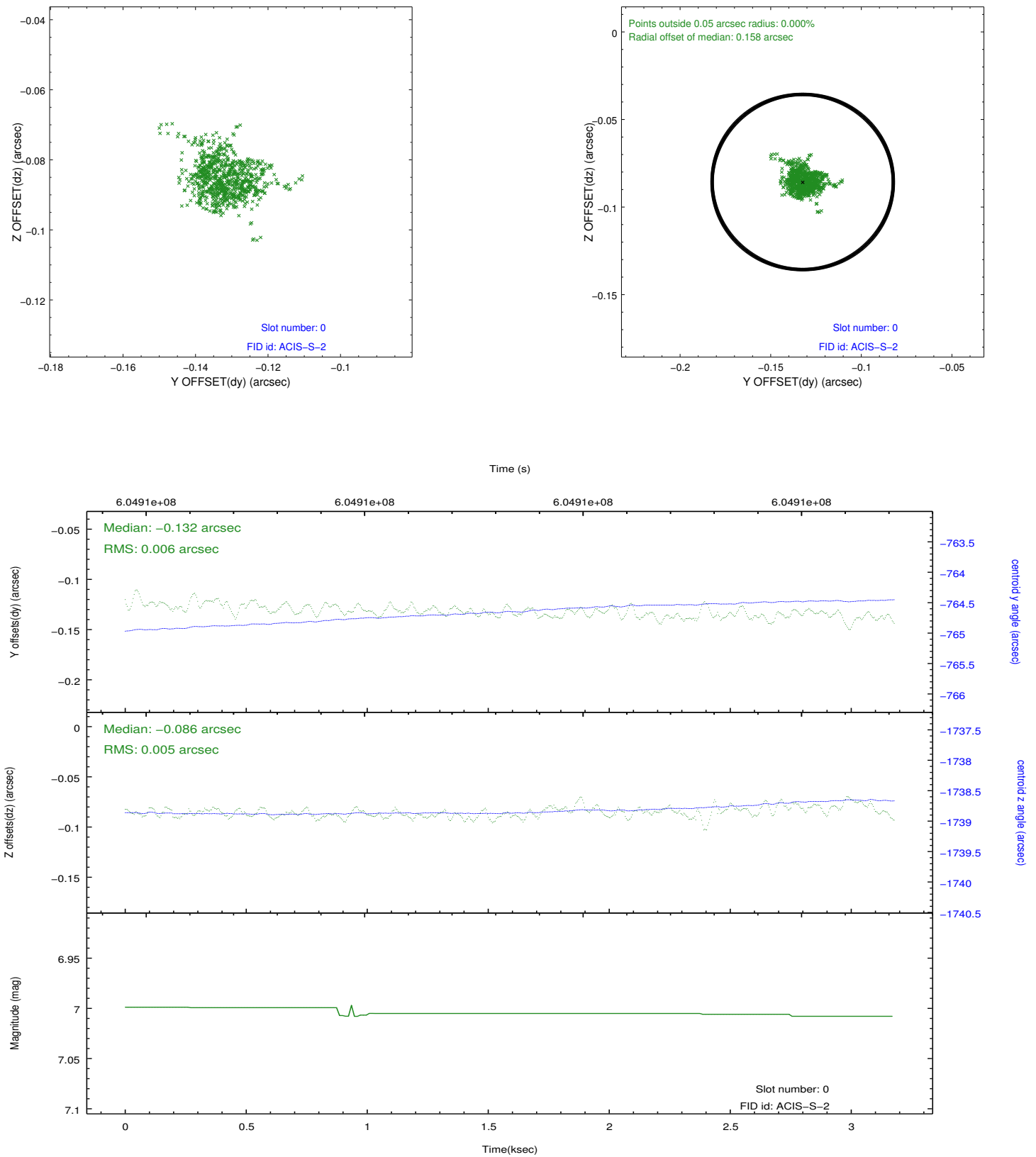


2.4.5 Slot 7

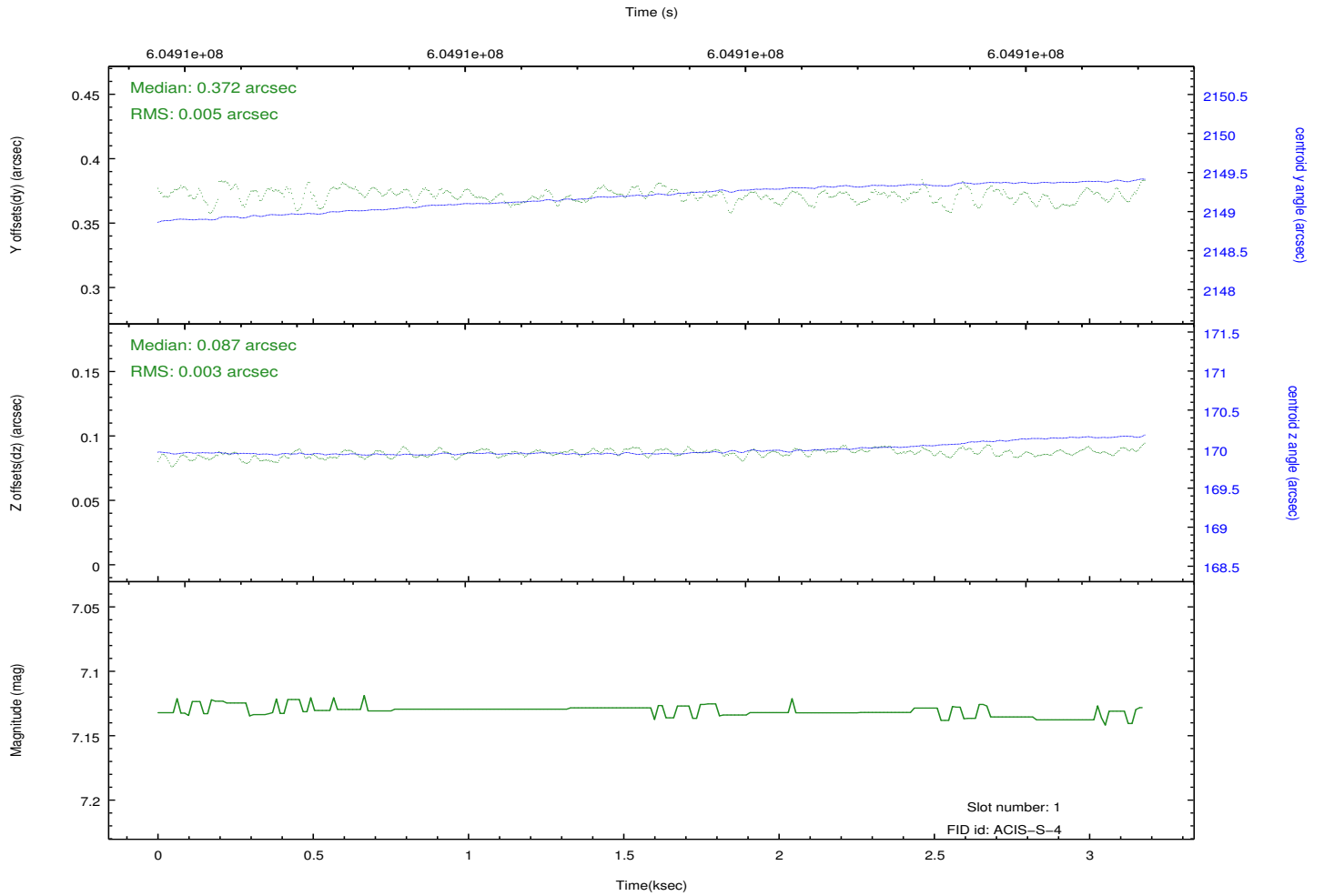
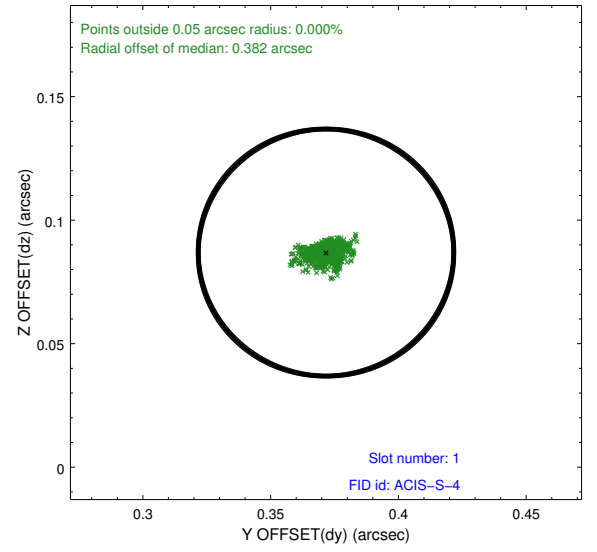
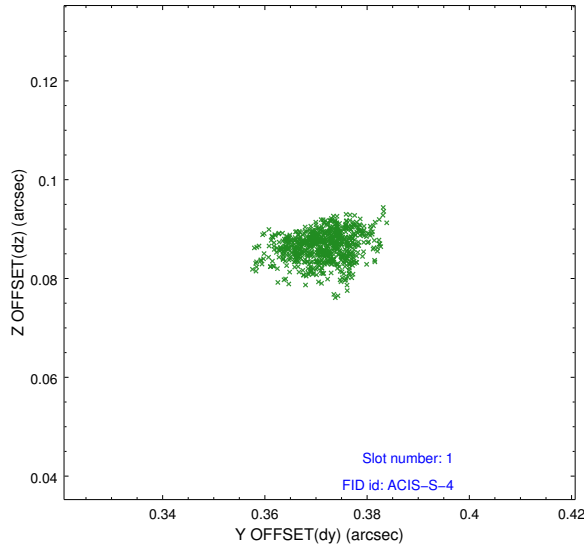


2.5 FID Slots

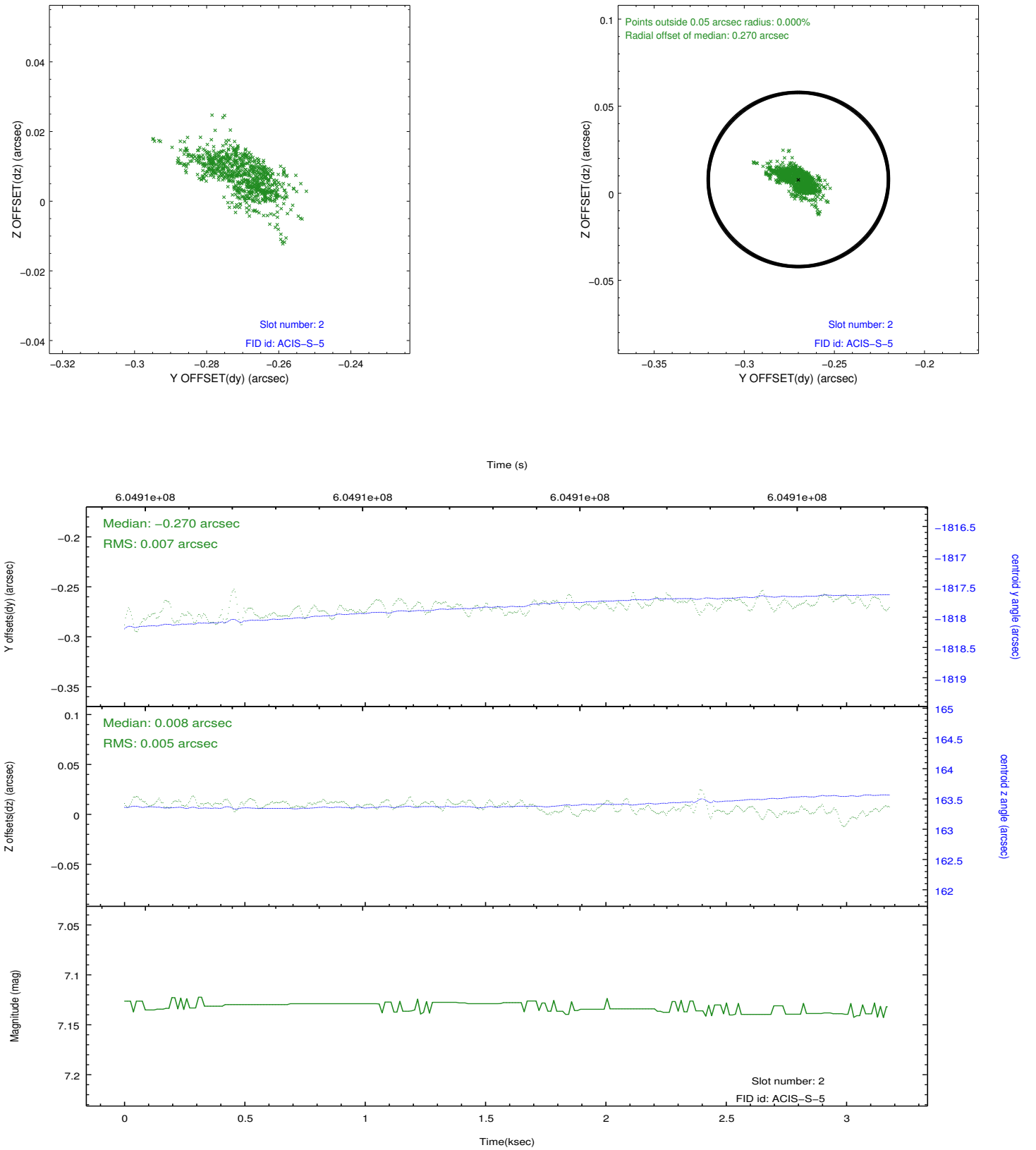
2.5.1 Slot 0



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)	2017.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0697765548229

A.2 Comments