

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16215 - L2 Version 1
Chandra X-Ray Center

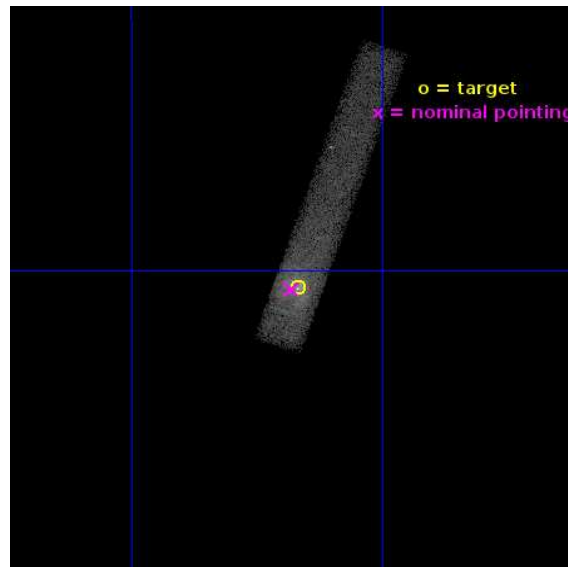
L2 Processing Date : Jul 18 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

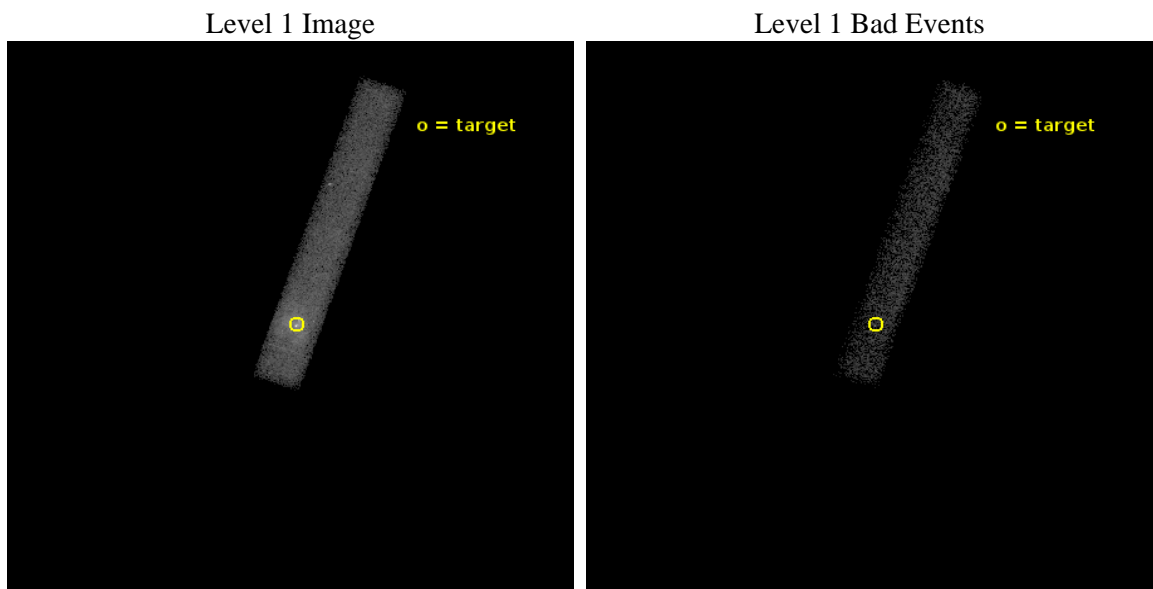
seq_num	601127	Sequence number
obs_id	16215	Observation id
title	Monitoring the Tidal Disruption of the Gas Cloud G2 As It Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007806	Observer's specified target Dec [deg]
ra_nom	266.42010909815	Nominal RA [deg]
dec_nom	-29.008587942998	Nominal Dec [deg]
roll_nom	289.15830114139	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45706.377091467	Sum of GTIs [s]
livetime	41453.271441563	Livetime [s]
ontime7	45706.377091467	Sum of GTIs [s]
l2events	44340	Number of level 2 events



2 OBI

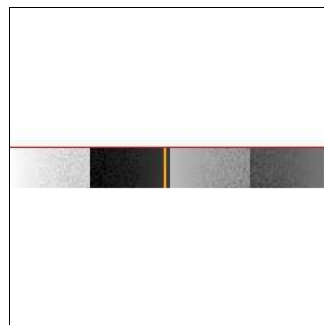
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45638.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	45706.377091467	Sum of GTIs [s]
caldbver	4.6.2	 	ontime7	45706.377091467	Sum of GTIs [s]
date	2014-07-18T14:26:58	Date and time of file creation	l1events	66355	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	66355
rejected events	21100
rejected %	31%

	ccd 7
grade 0 events	6982
	10%
grade 1 events	89
	0%
grade 2 events	9982
	15%
grade 3 events	5314
	8%
grade 4 events	5211
	7%
grade 5 events	4311
	6%
grade 6 events	17768
	26%
grade 7 events	16698
	25%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.396111	266.4201090981474	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.990910	-29.00858794299761	Subarray start row	449	449
[deg] Pointing Roll	288.990036	289.158301141386	Subarray row count	128	128
[s] Window start time (MET)	521938867.184000	521938867.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	521989267.184000	521989267.184000	[s] Primary exposure time	0.000000	0.4
[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)	521938950.184000	521937832.35756			
Observation start date	2014-07-16T23:01:23	2014-07-16T22:43:52			
[s] Observation end time (MET)	521984588.184000	521984978.26018			
Observation end date	2014-07-17T11:42:01	2014-07-17T11:49:38			
Read mode	TIMED	TIMED			

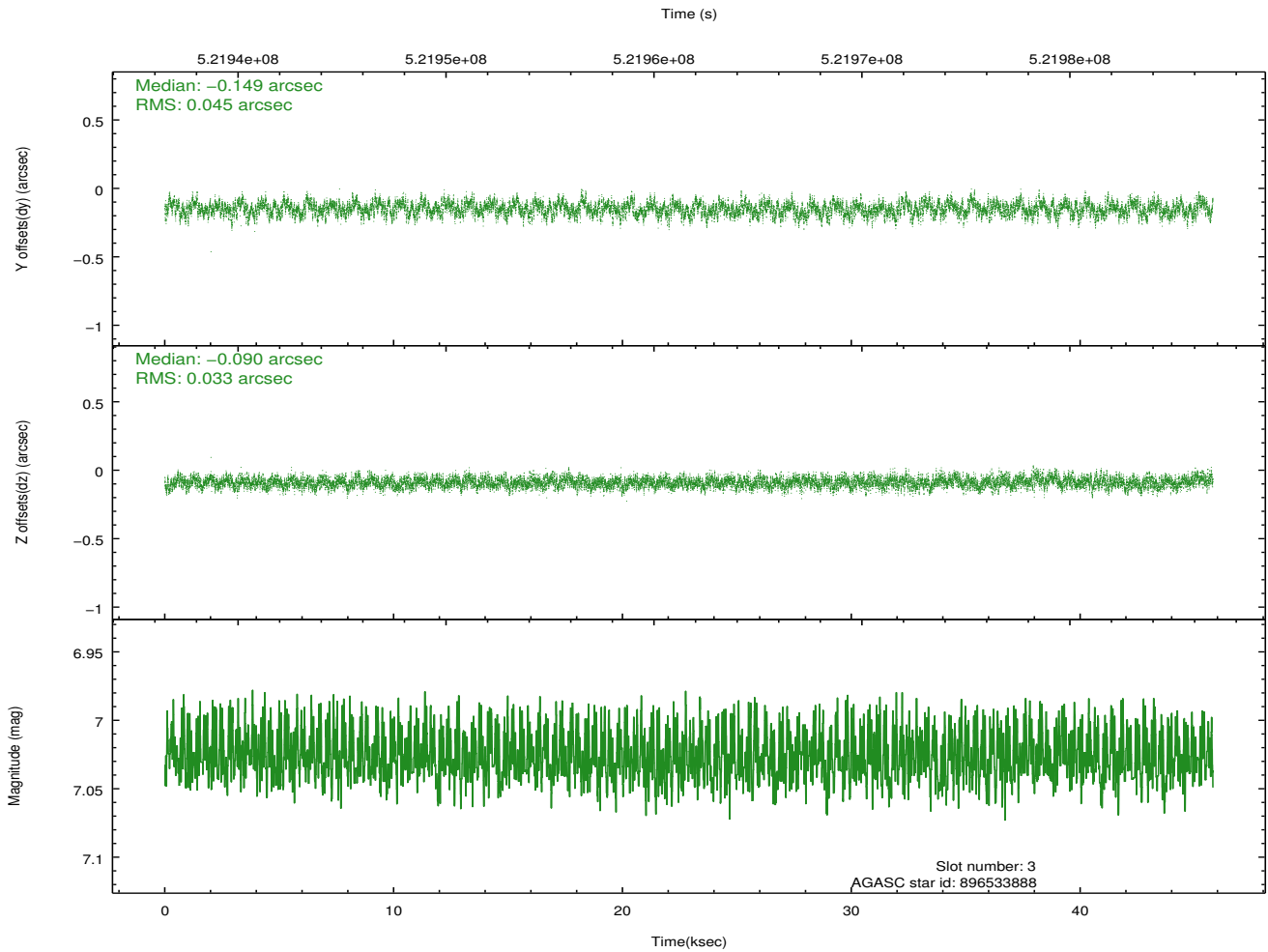
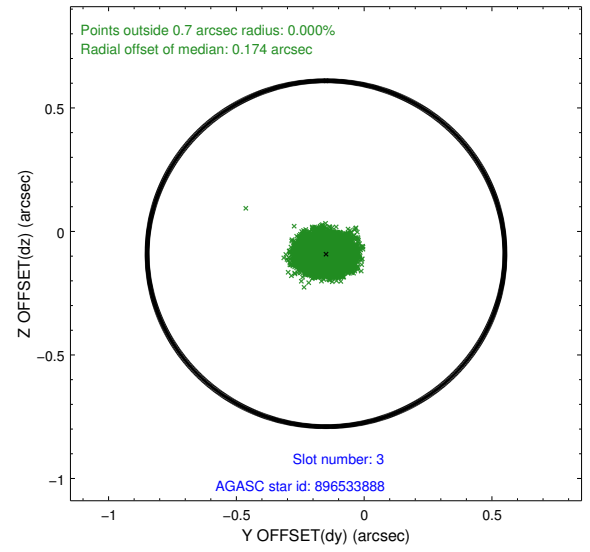
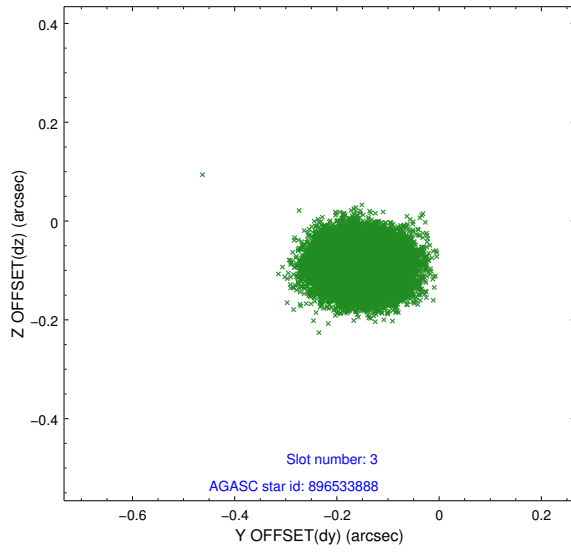
2.3 Aspect

Slot Statistics

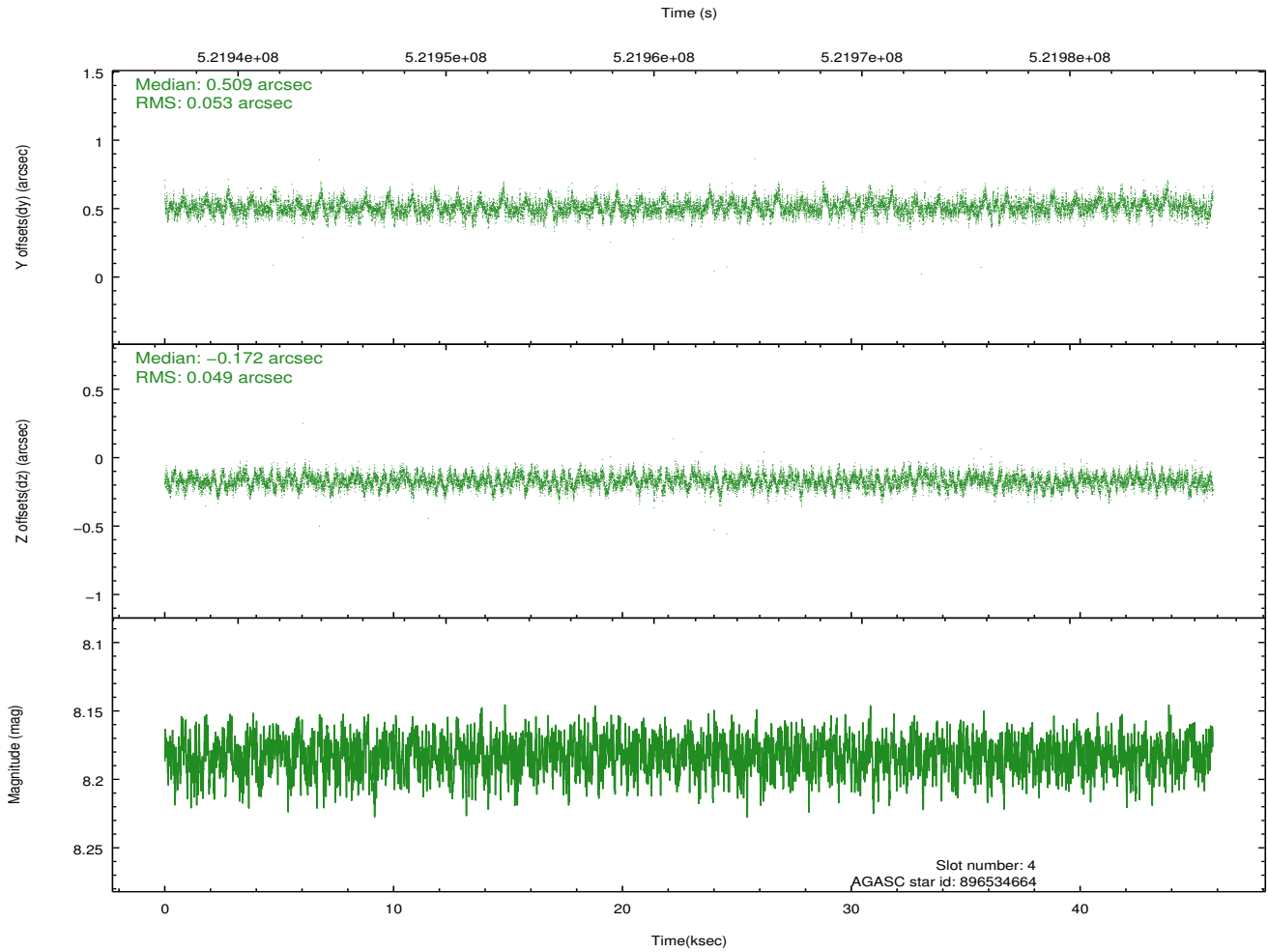
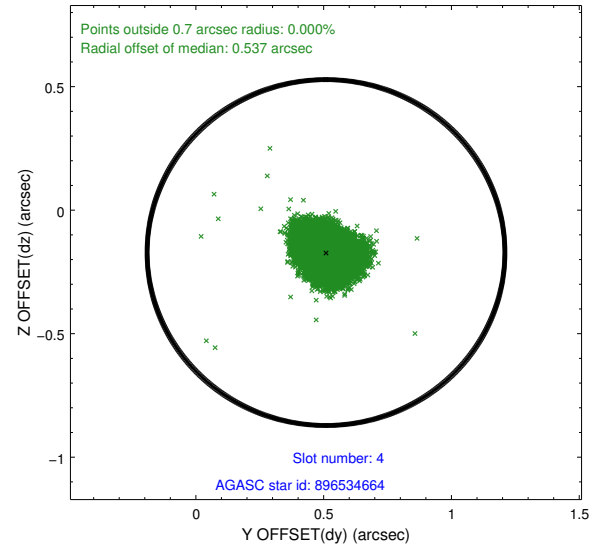
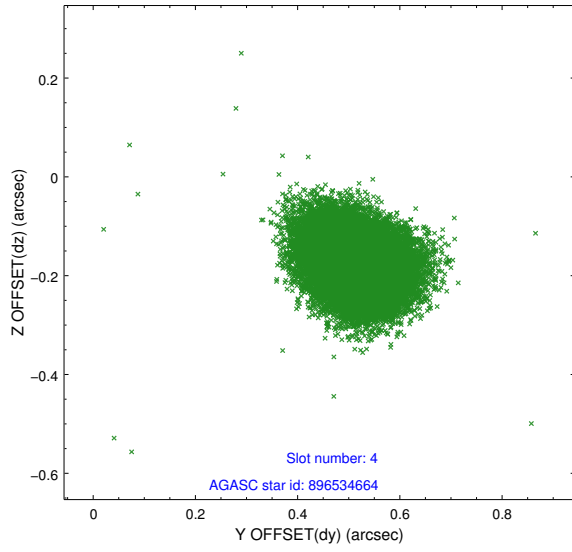
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	11170	-0.116	-0.036	0.017	0.037	0.000000	0.000000	-773.22	-1738.53
1	FID	ACIS-S-4	7.09	11168	0.258	0.065	0.017	0.027	0.000000	0.000000	2140.45	170.01
2	FID	ACIS-S-5	7.12	11170	-0.171	-0.022	0.021	0.032	0.000000	0.000000	-1826.11	163.64
3	GUIDE	896533888	7.03	22341	-0.149	-0.090	0.060	0.097	266.666434	-29.392757	1644.96	330.73
4	GUIDE	896534664	8.18	22337	0.509	-0.172	0.077	0.123	266.405570	-28.407461	-1975.41	711.80
5	GUIDE	896540808	7.51	22338	0.009	0.288	0.066	0.111	265.985401	-29.308604	664.33	-1591.58
6	GUIDE	896541360	7.72	22339	-0.188	-0.069	0.076	0.118	266.684478	-29.453744	1870.92	312.20
7	GUIDE	896538696	6.83	22340	-0.182	0.045	0.054	0.087	266.298470	-28.325572	-2365.16	487.00

2.4 Star Slots

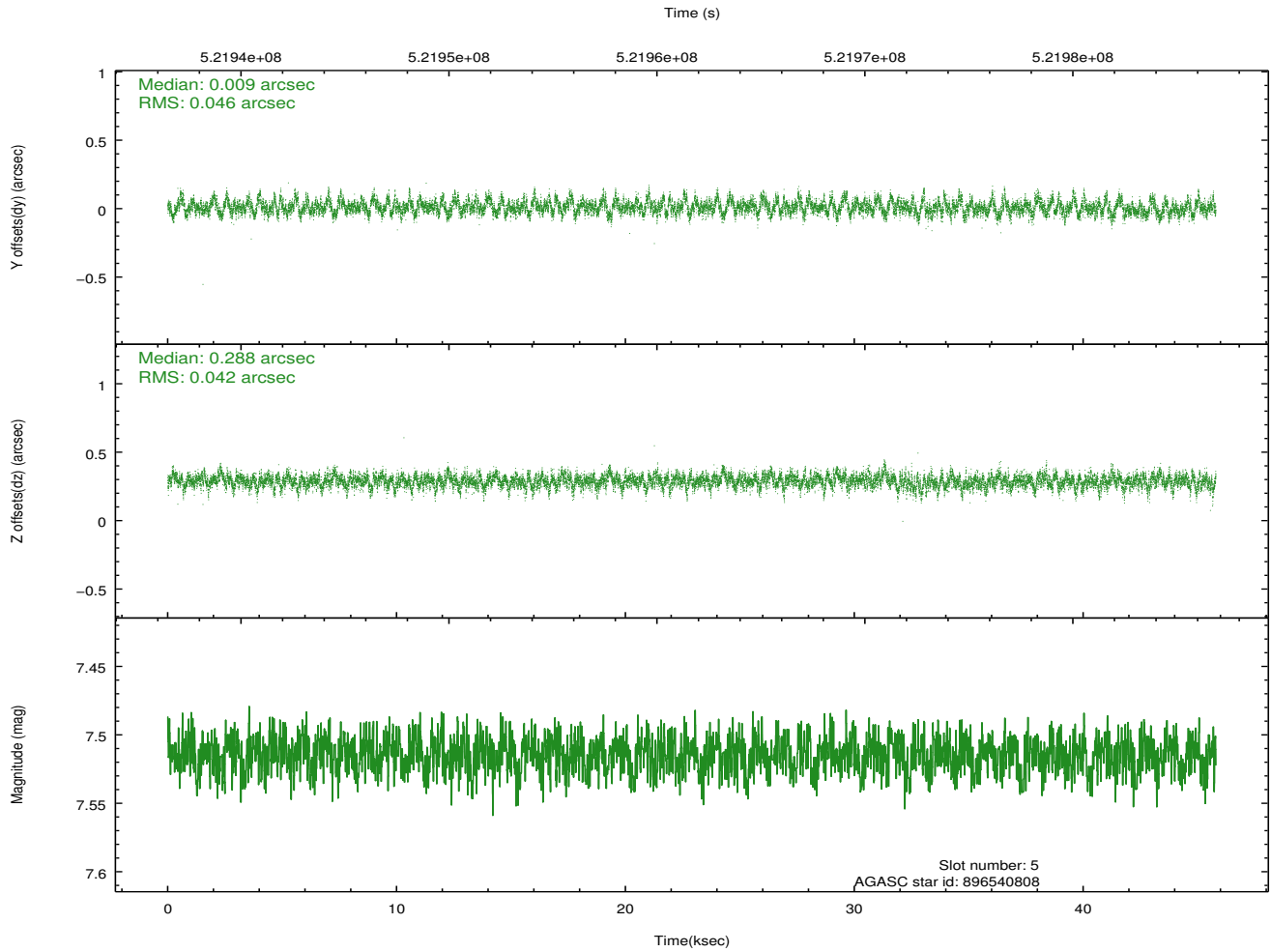
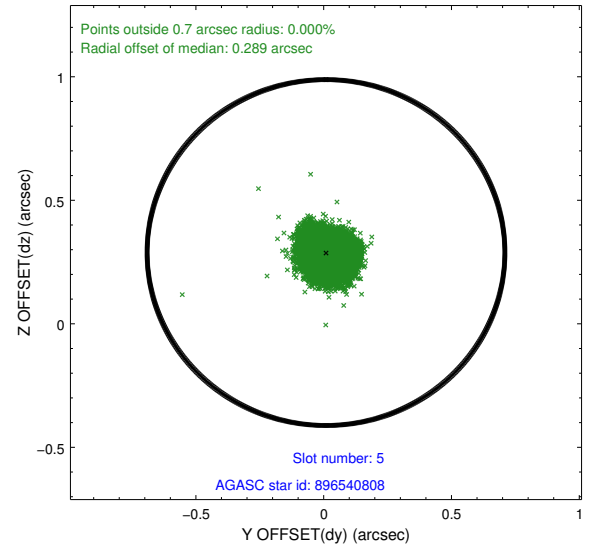
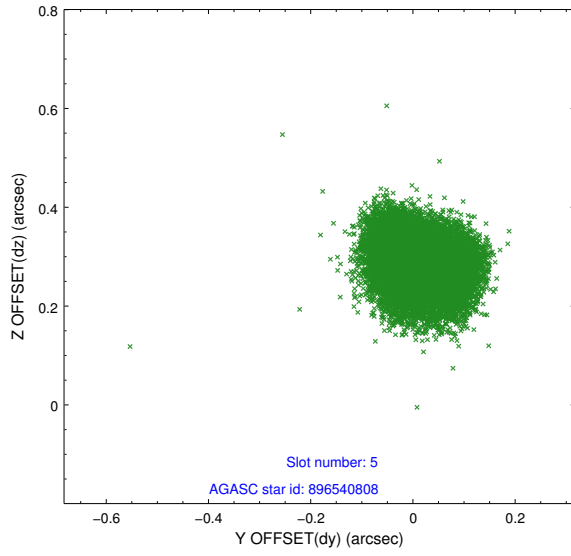
2.4.1 Slot 3



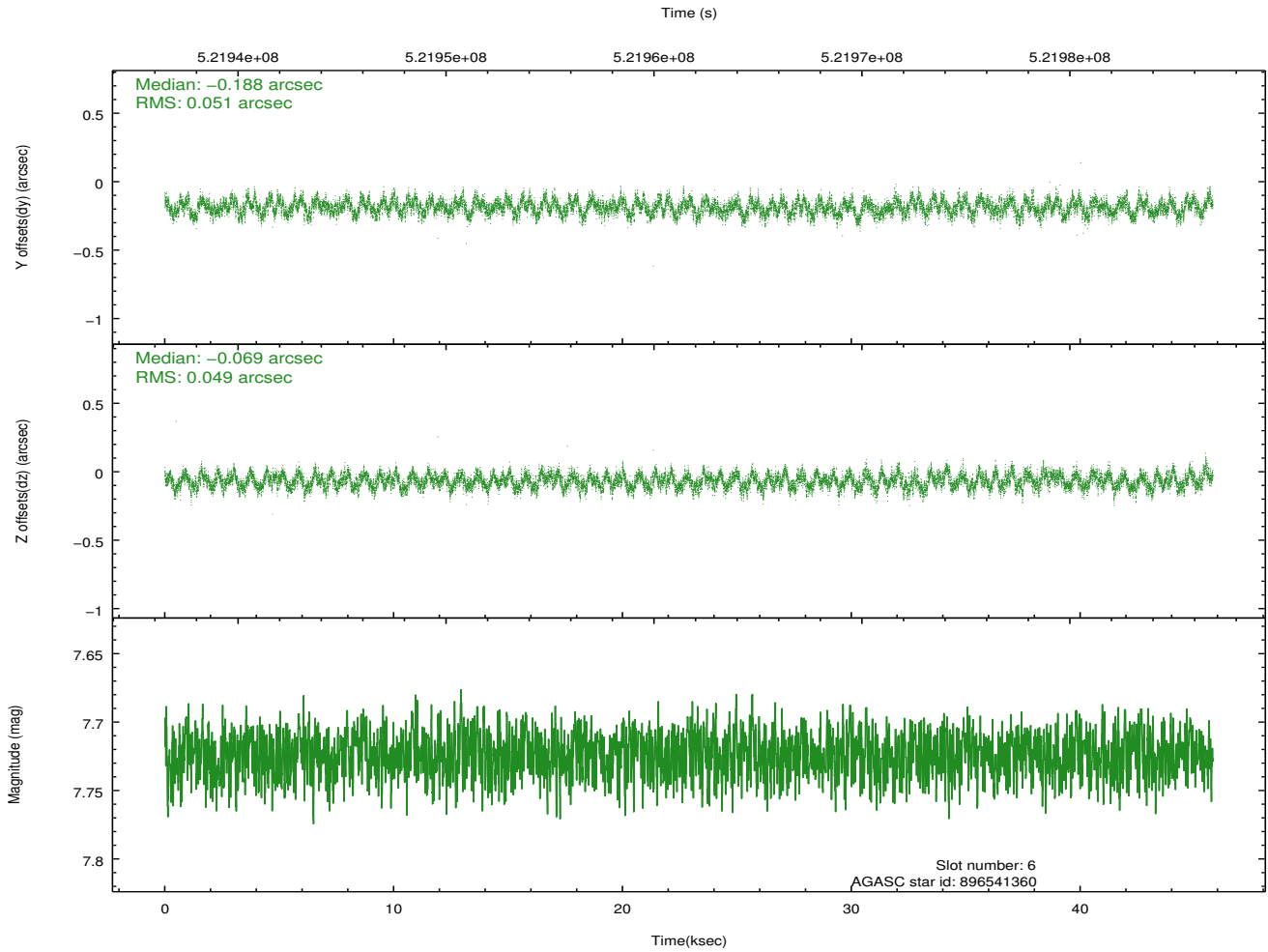
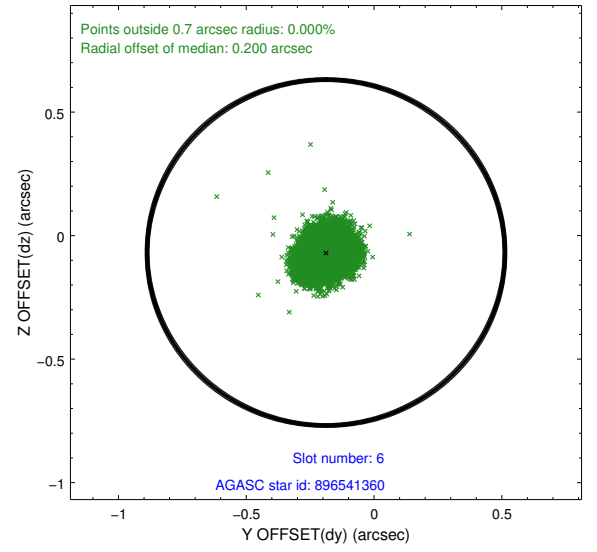
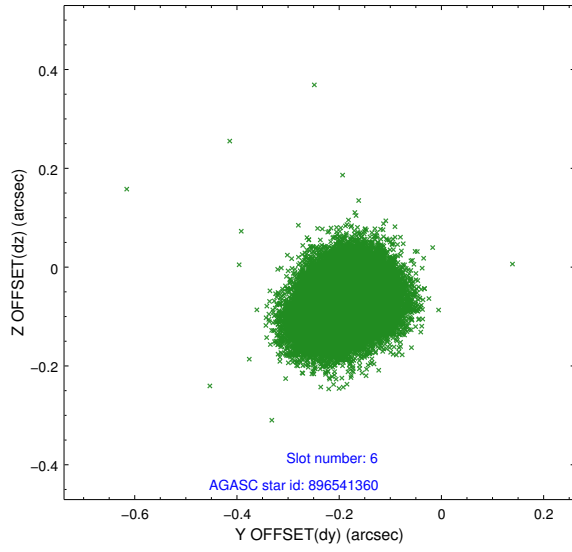
2.4.2 Slot 4



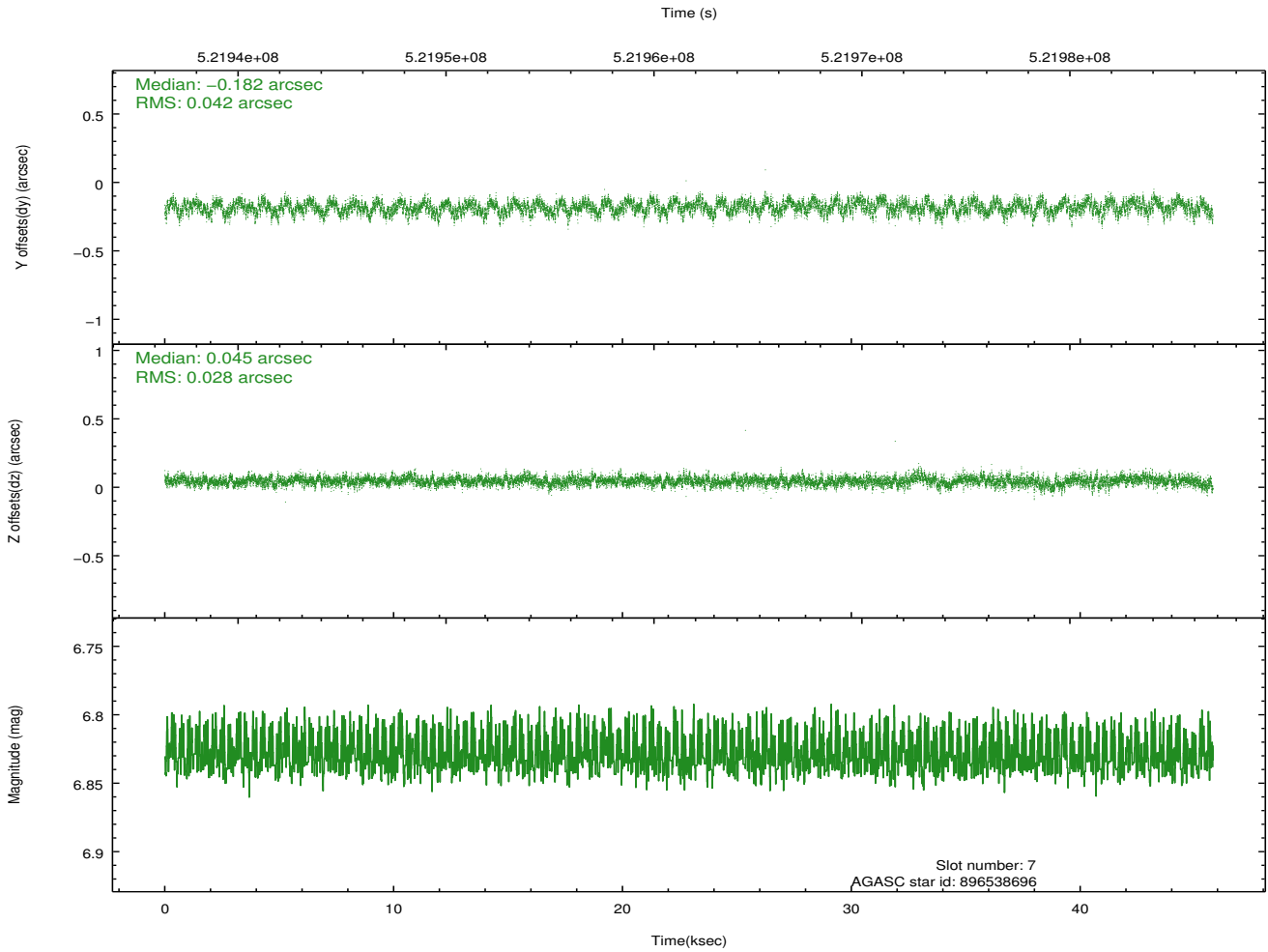
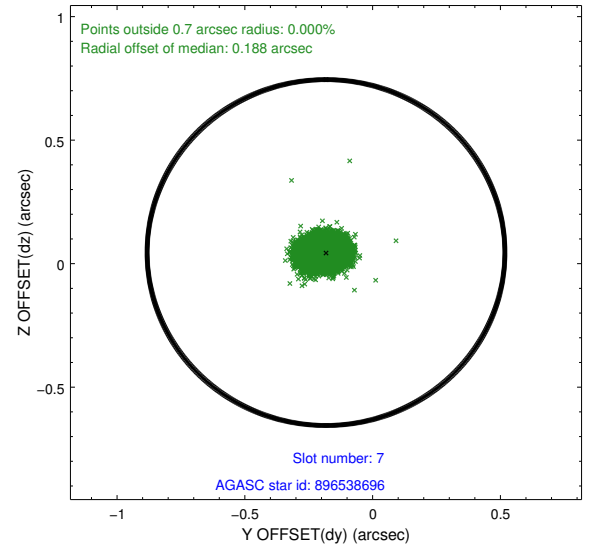
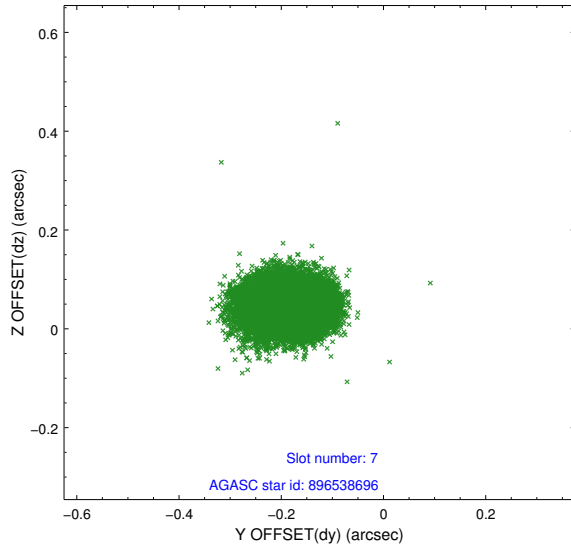
2.4.3 Slot 5



2.4.4 Slot 6

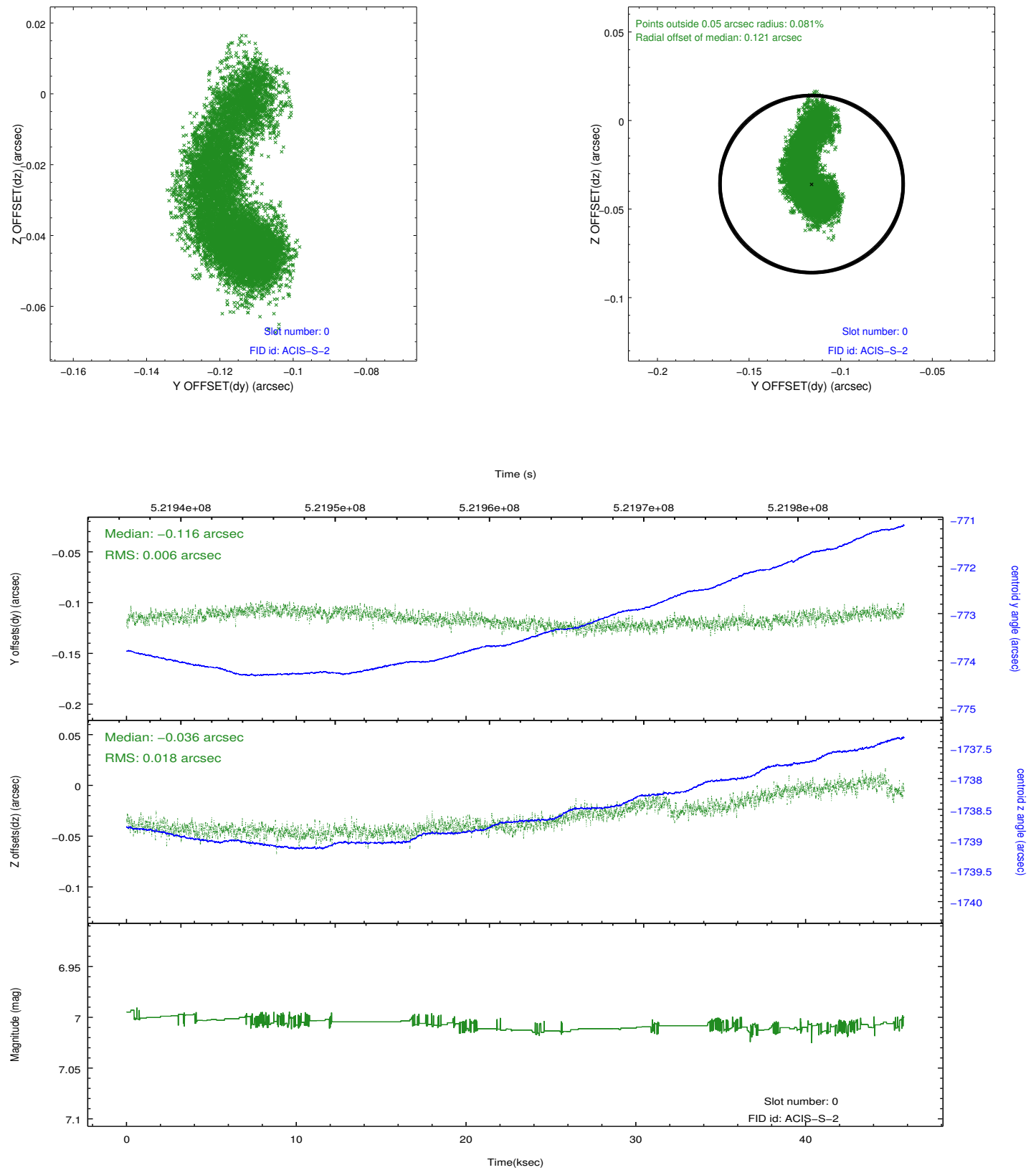


2.4.5 Slot 7

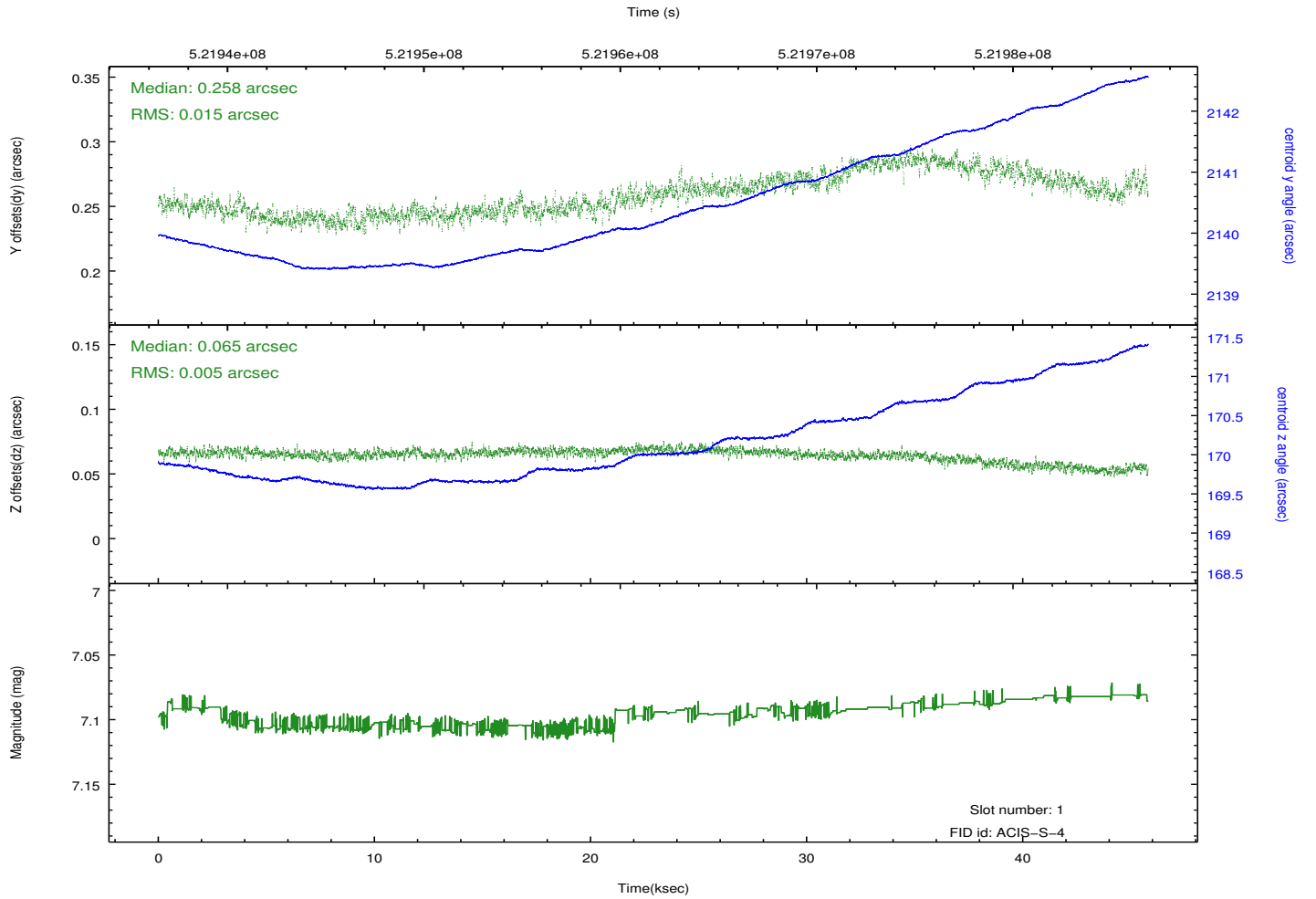
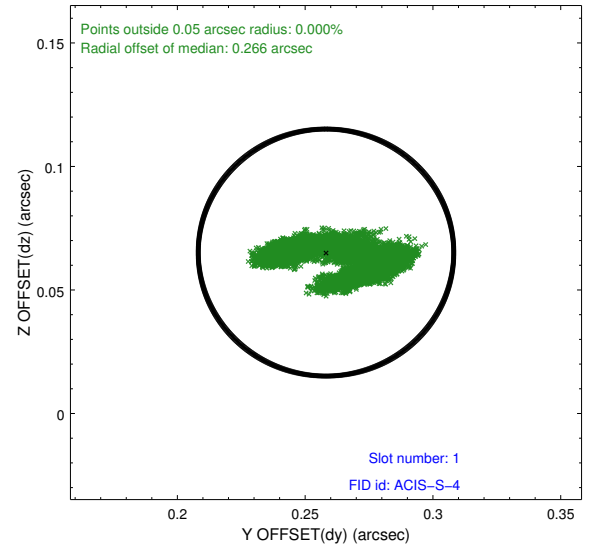
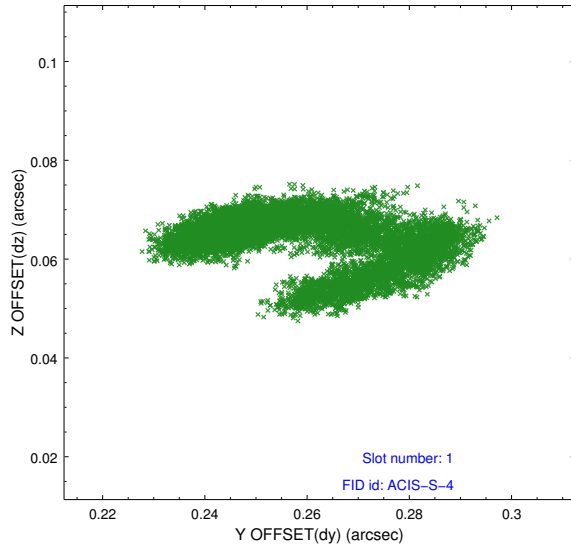


2.5 FID Slots

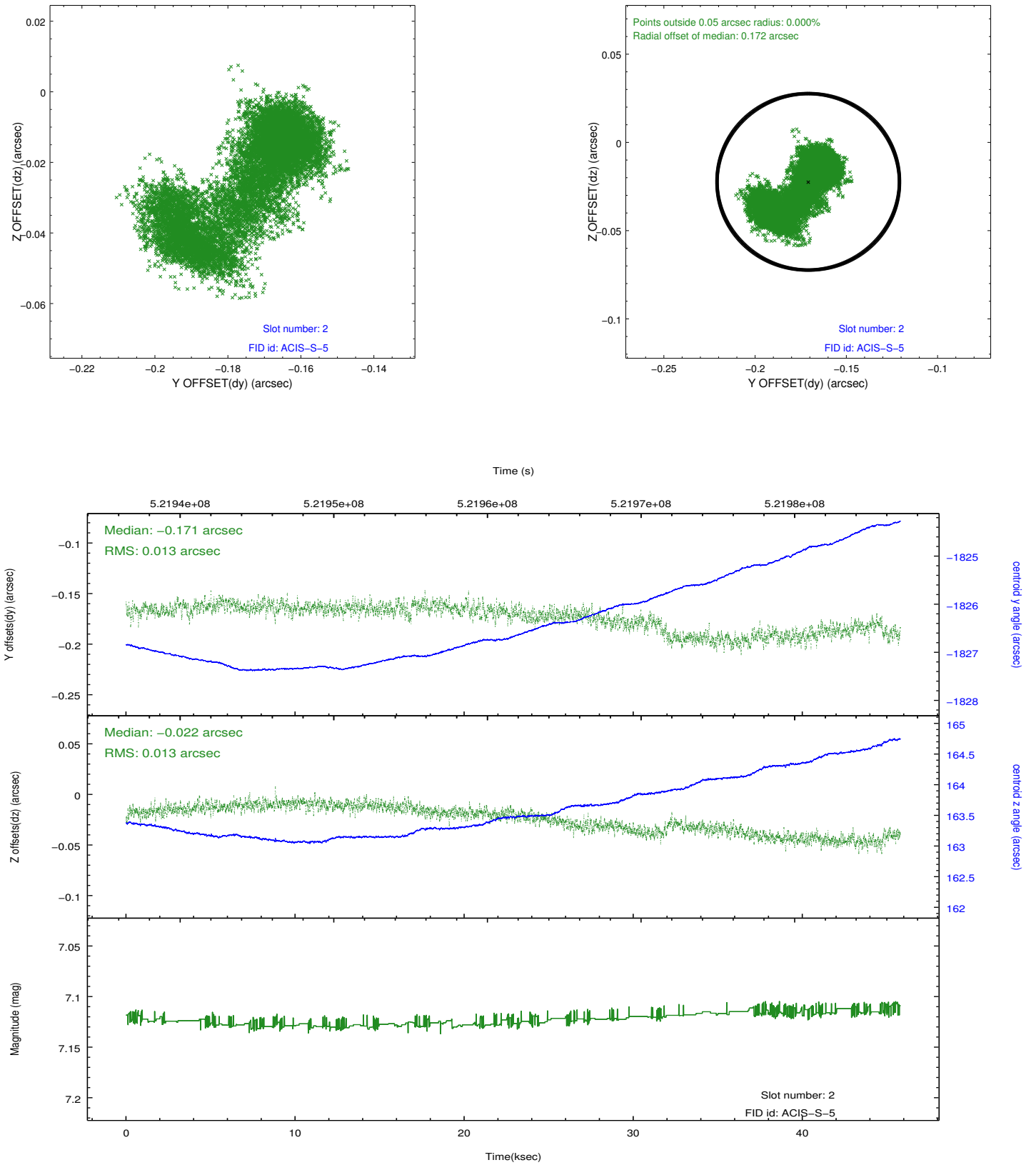
2.5.1 Slot 0



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)	2014.07.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.706377091467

A.2 Comments

Joint Proposal: NRAO. Window constraint met. Roll preference met.