

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18999 - L2 Version 1
Chandra X-Ray Center

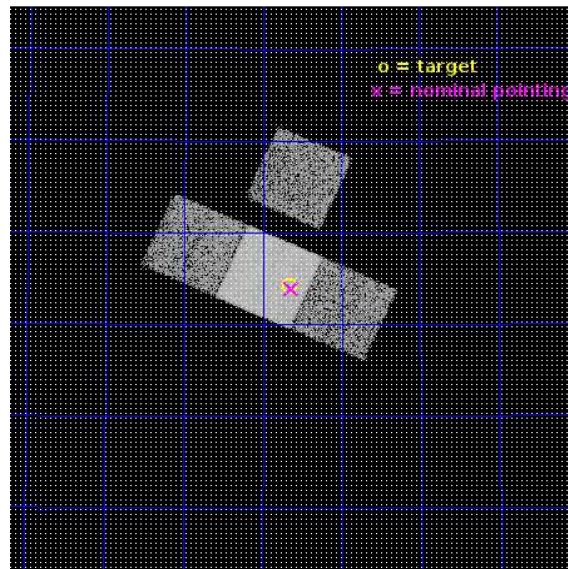
L2 Processing Date : Nov 15 2017

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

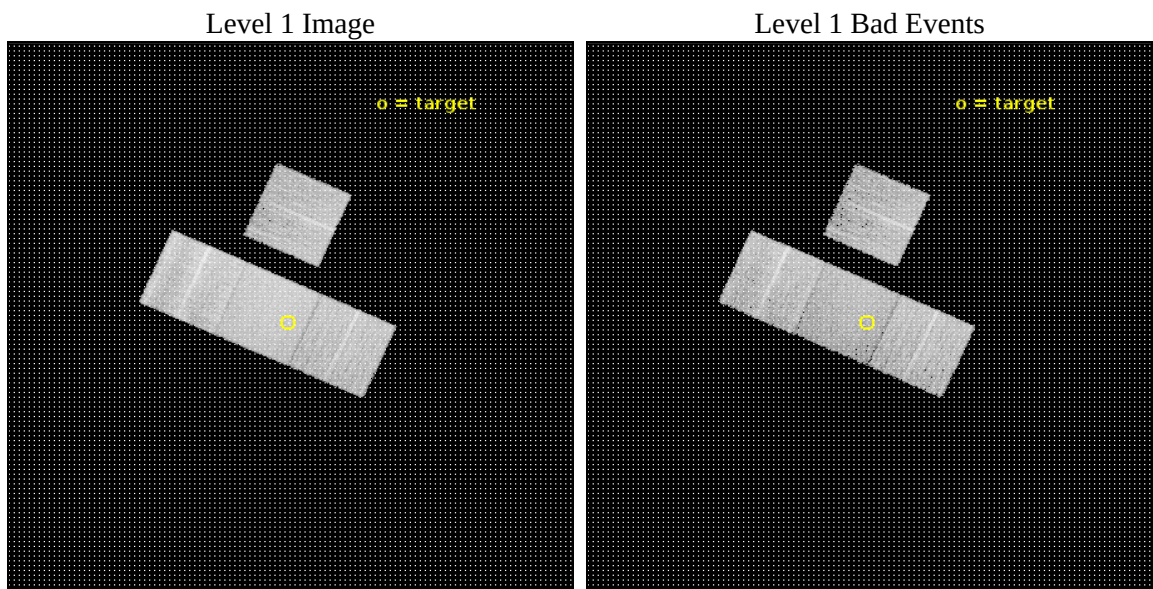
seq_num	401866	Sequence number
obs_id	18999	Observation id
title	Accretion/ejection coupling in the second Be/BH system	Proposal ti
observer	Marc Ribo	Principal investigator
object	HD 13831	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	34.163333	Observer's specified target RA [deg]
dec_targ	56.737806	Observer's specified target Dec [deg]
ra_nom	34.159298667787	Nominal RA [deg]
dec_nom	56.73171762825	Nominal Dec [deg]
roll_nom	204.05466410536	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10016.100077152	Sum of GTIs [s]
livetime	9885.2323558987	Livetime [s]
ontime3	10016.100077152	Sum of GTIs [s]
ontime6	10016.100077152	Sum of GTIs [s]
ontime7	10016.100077152	Sum of GTIs [s]
ontime8	10016.100077152	Sum of GTIs [s]
l2events	59321	Number of level 2 events



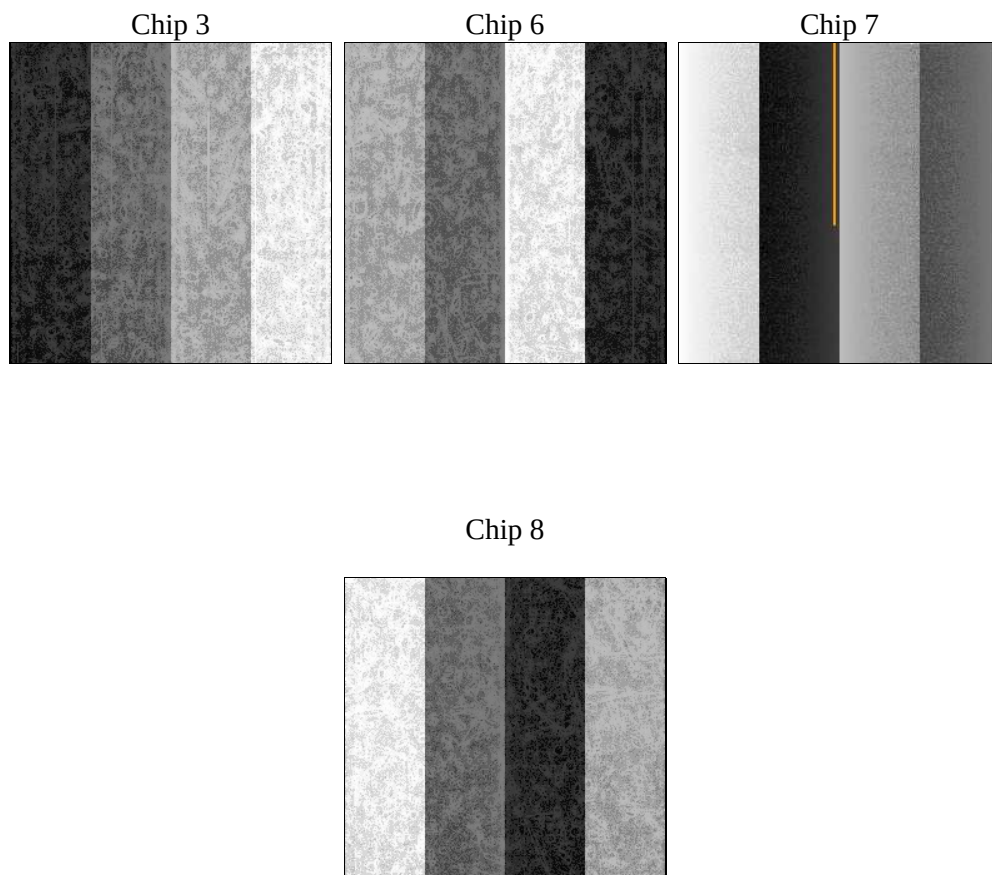
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10016.100077152	Sum of GTIs [s]
caldbver	4.7.6	 	ontime3	10016.100077152	Sum of GTIs [s]
date	2017-11-15T13:40:12	Date and time of file creation	ontime6	10016.100077152	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10016.100077152	Sum of GTIs [s]
			ontime8	10016.100077152	Sum of GTIs [s]
			l1events	314412	Number of level 1 events

2.1.4 Events

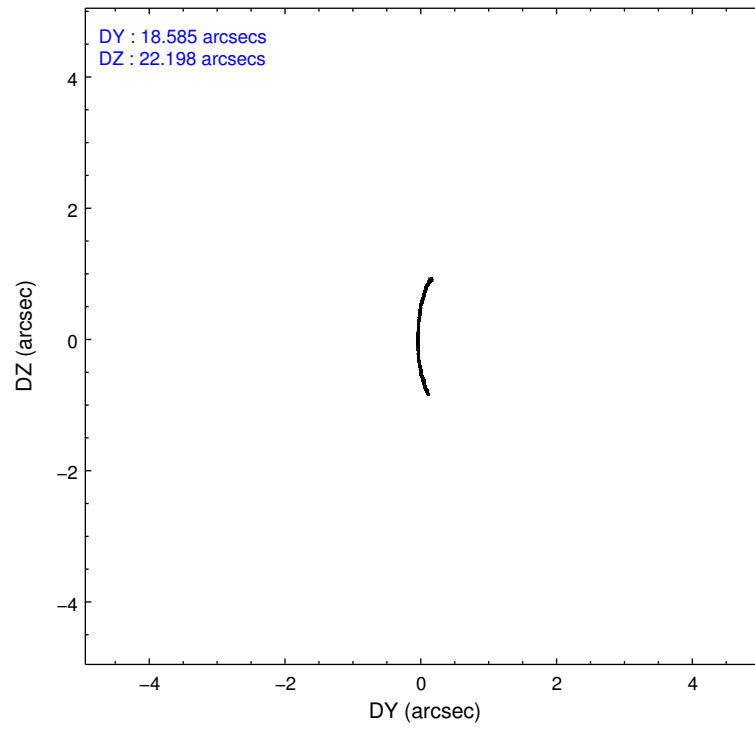
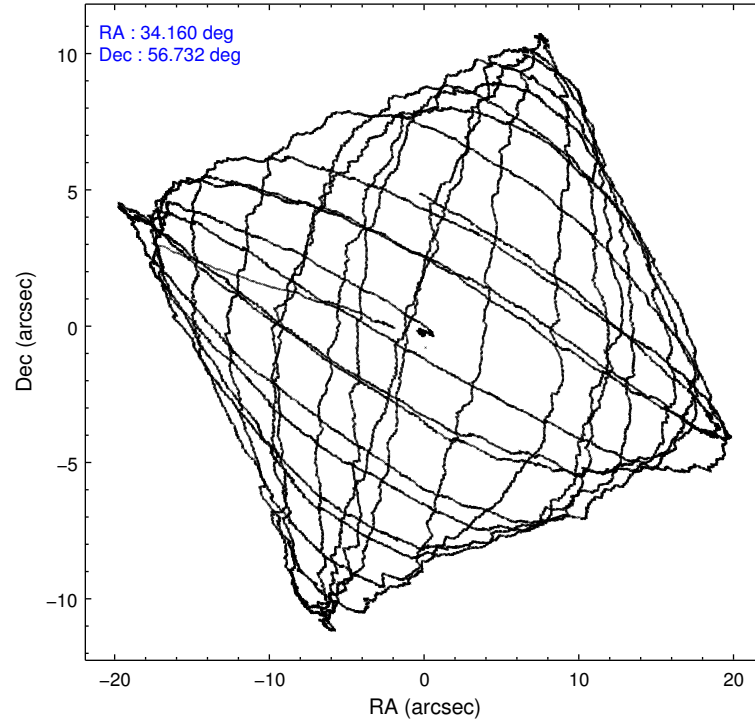
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	64269	70454	88013	91676
rejected events	56913	62490	49452	66577
rejected %	88%	88%	56%	72%

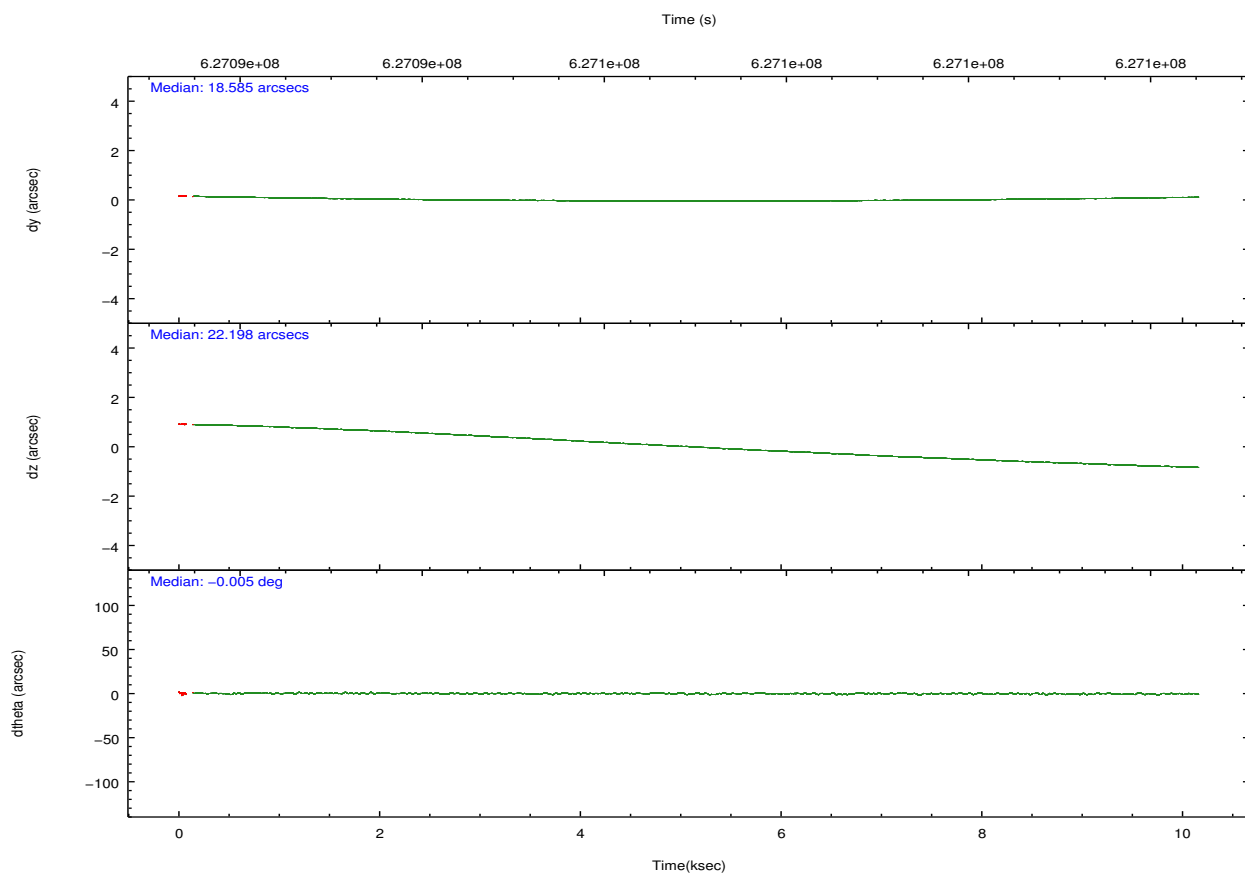
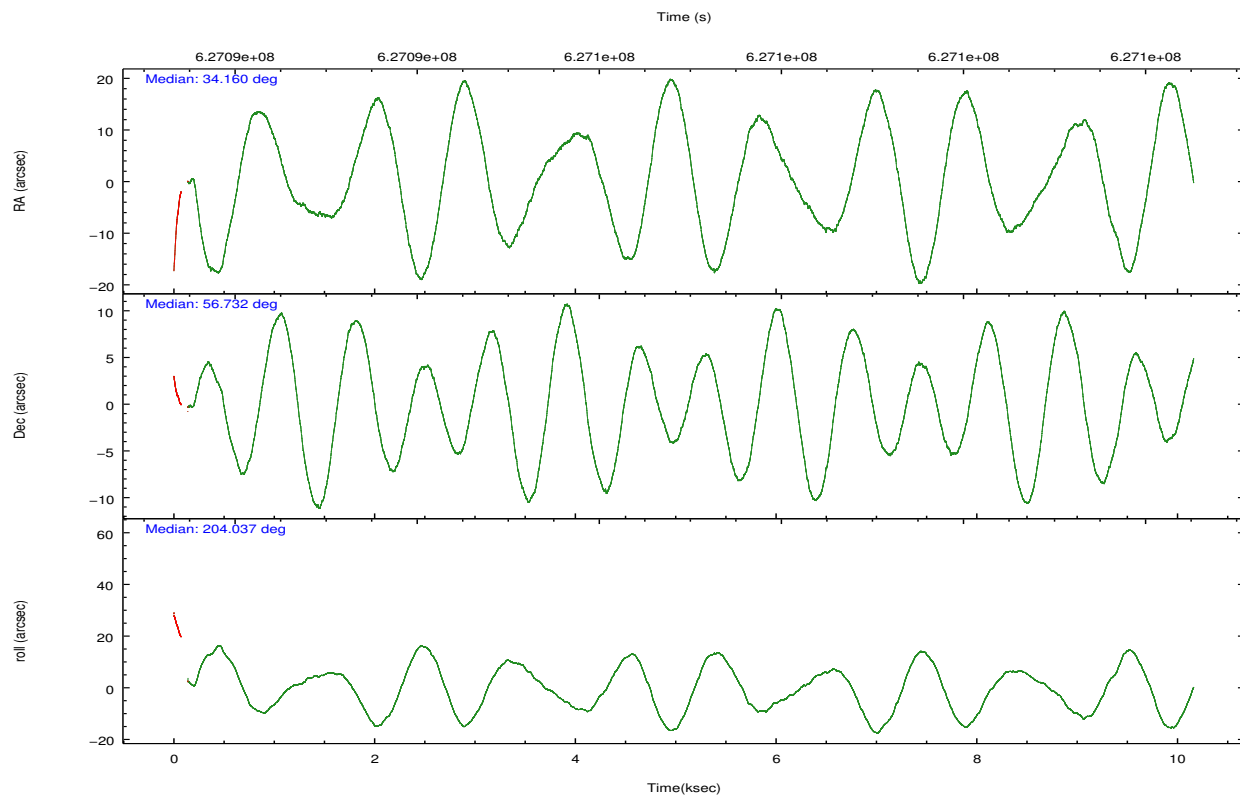
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2658	2669	3277	7167
	4%	3%	3%	7%
grade 1 events	36	31	113	75
	0%	0%	0%	0%
grade 2 events	1591	1899	8120	6144
	2%	2%	9%	6%
grade 3 events	783	816	3115	2741
	1%	1%	3%	2%
grade 4 events	765	784	3125	2478
	1%	1%	3%	2%
grade 5 events	3286	3339	8905	4938
	5%	4%	10%	5%
grade 6 events	1603	1847	21133	6701
	2%	2%	24%	7%
grade 7 events	53547	59069	40225	61432
	83%	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	34.188161	34.1592986677872	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.754149	56.73171762825041	Alternating exposures requested	N	N
[deg] Pointing Roll	203.873886	204.0546641053625	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	596937668.184000	596937668.184000			
[s] Window stop time (MET)	601516869.184000	601516869.184000			
[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)	627092013.184000	627090837.35101			
Observation start date	2017-11-15T00:12:24	2017-11-14T23:53:57			
[s] Observation end time (MET)	627102013.184000	627103295.20174			
Observation end date	2017-11-15T02:59:04	2017-11-15T03:21:35			
Read mode	TIMED	TIMED			

2.3 Aspect



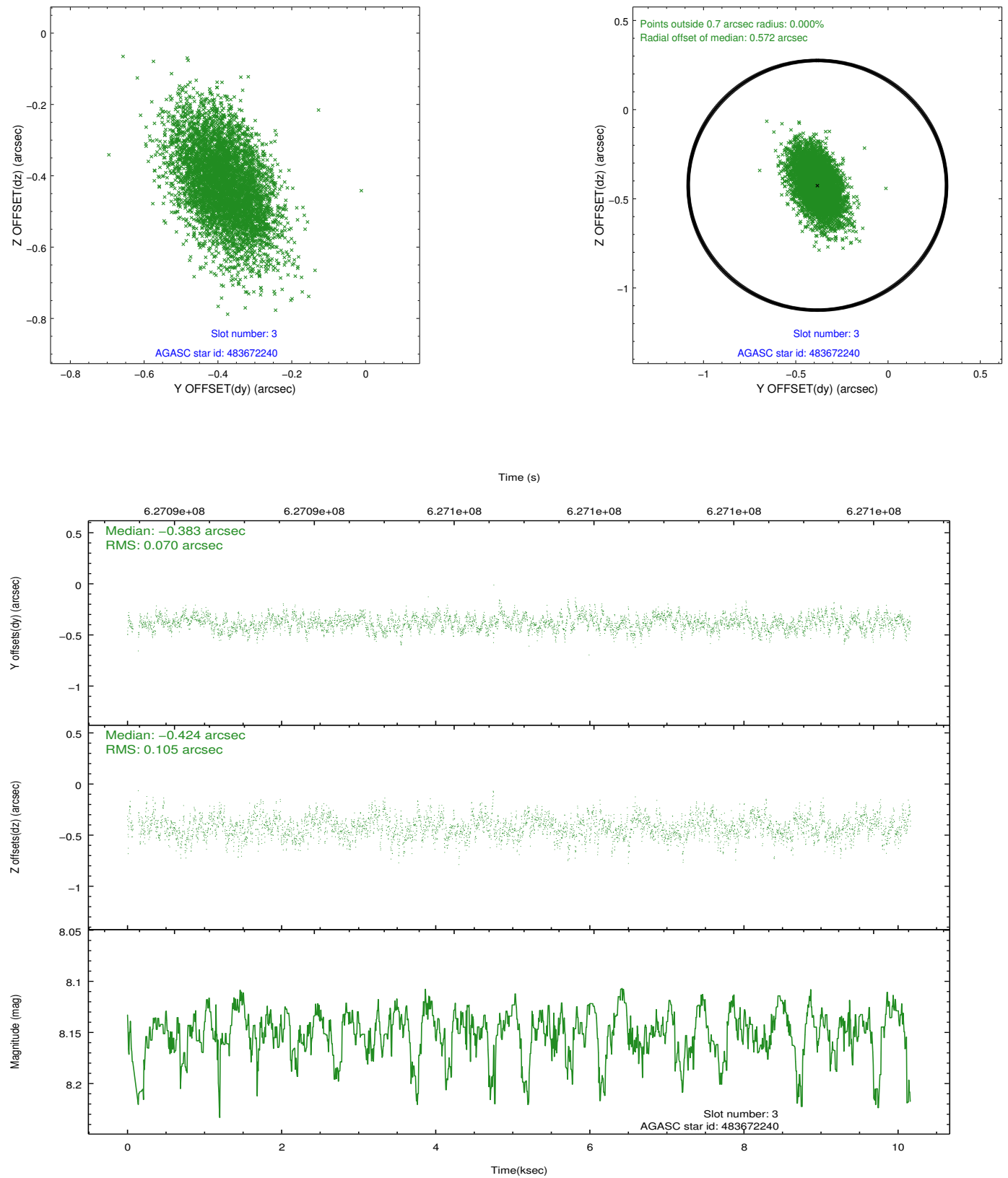


Slot Statistics

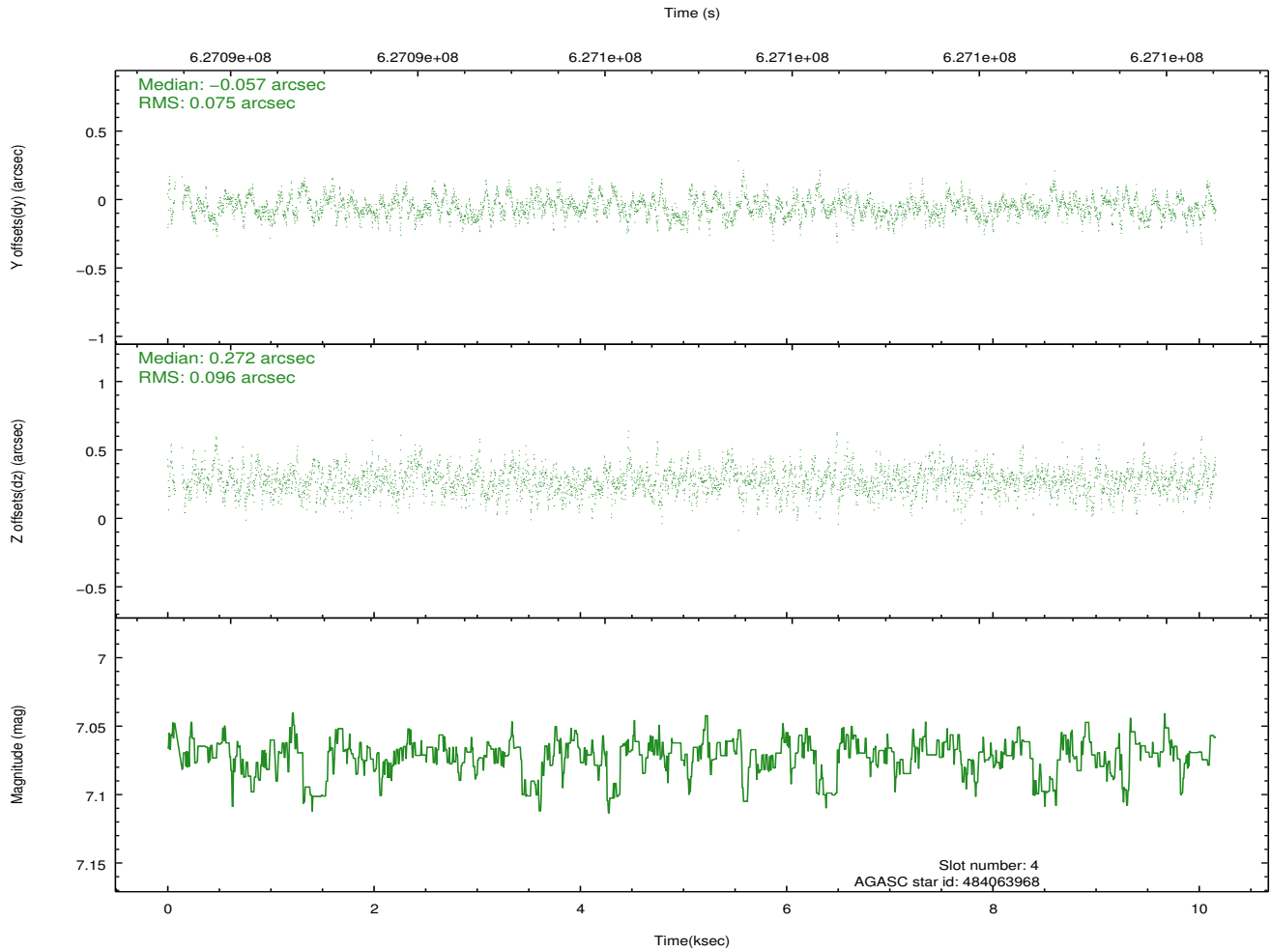
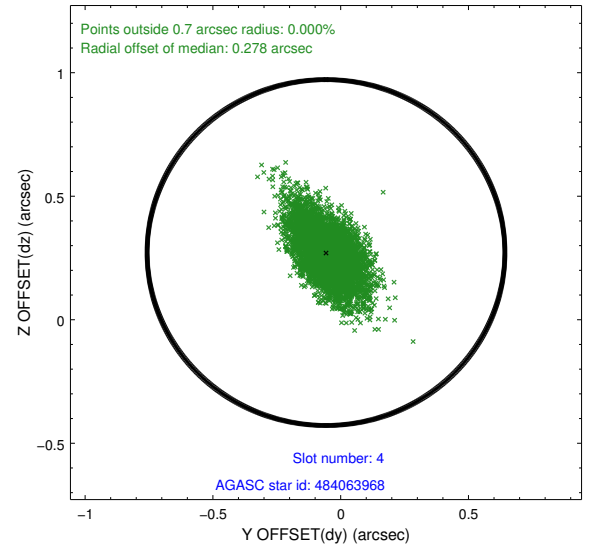
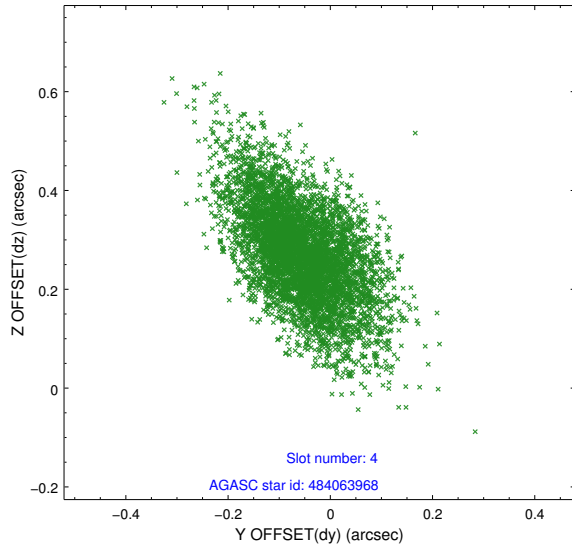
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.07	2463	-0.072	-0.006	0.032	0.051	0.000000	0.000000	924.28	-1739.39
1	FID		ACIS-S-4	7.09	2462	0.181	0.034	0.011	0.022	0.000000	0.000000	2142.23	164.27
2	FID		ACIS-S-6	7.24	2463	-0.132	-0.016	0.024	0.032	0.000000	0.000000	390.84	802.18
3	GUIDE	used	483672240	8.15	4923	-0.383	-0.424	0.131	0.230	33.941409	55.996315	1557.96	2292.89
4	GUIDE	used	484063968	7.07	4926	-0.057	0.272	0.123	0.224	33.233590	57.204492	1039.72	-2241.23
5	GUIDE	used	484201016	8.49	4921	0.220	0.498	0.120	0.209	34.366863	57.365646	-1206.66	-1873.14
6	GUIDE	used	484204112	7.86	4924	0.217	-0.347	0.125	0.220	34.518005	56.479546	-199.70	1167.07
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

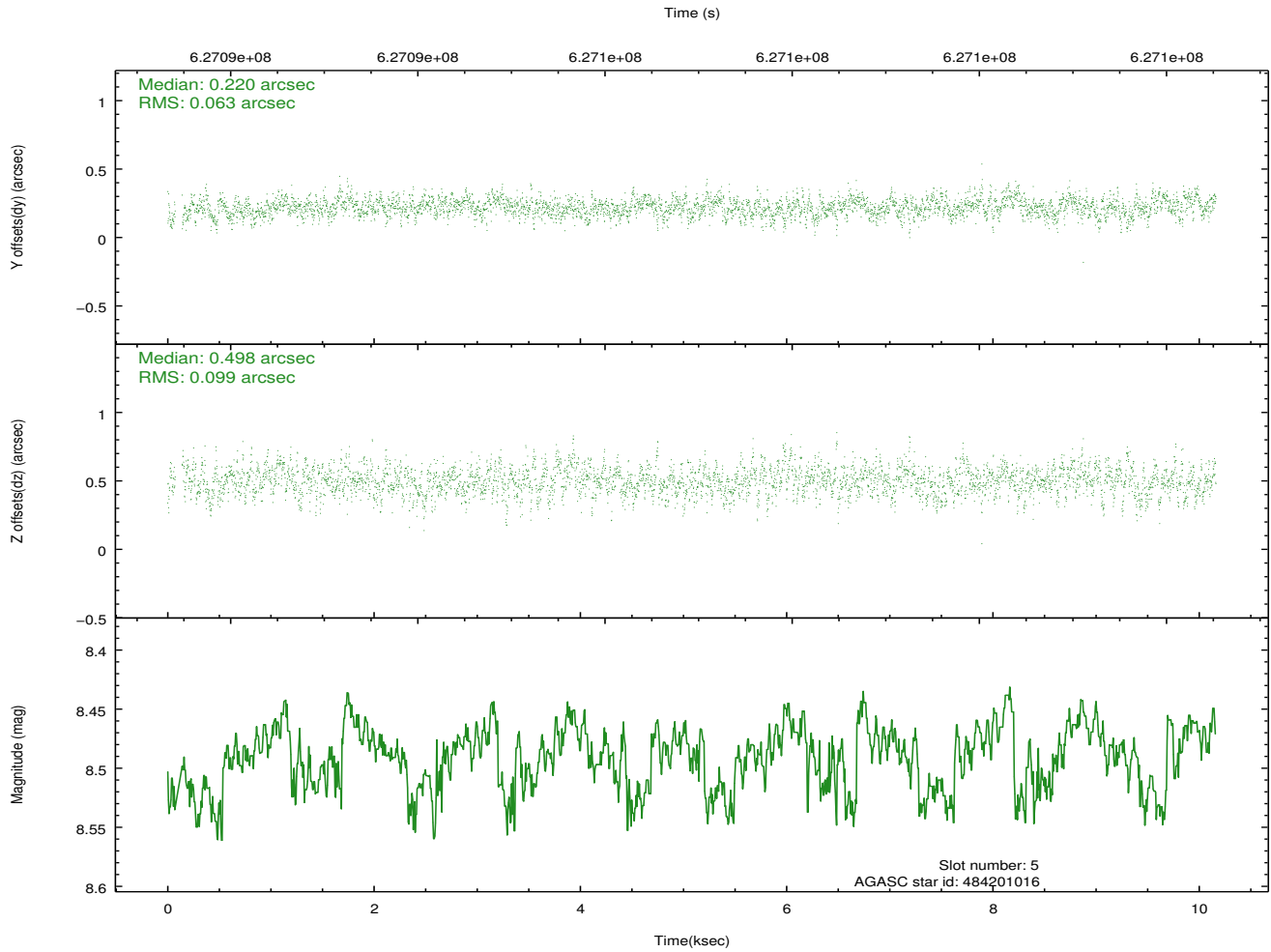
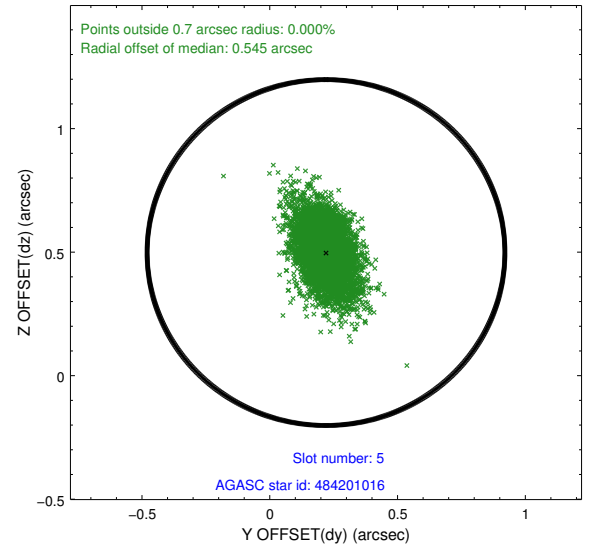
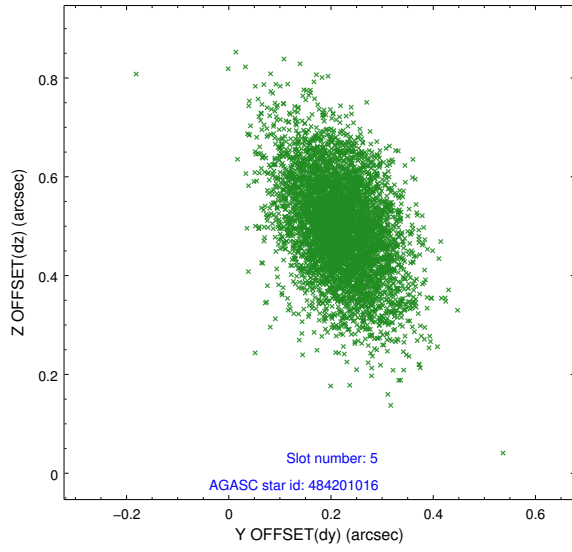
2.4.1 Slot 3



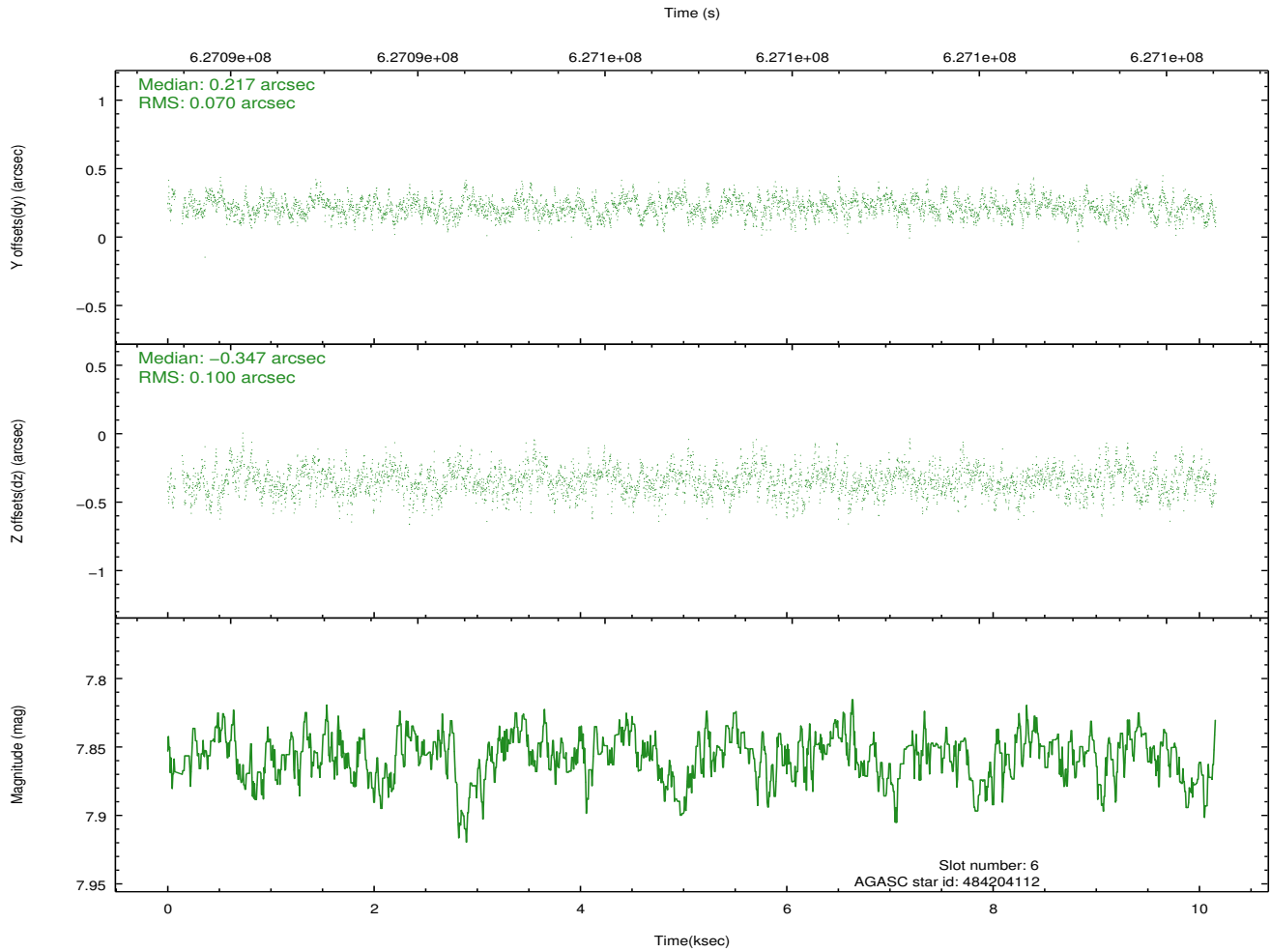
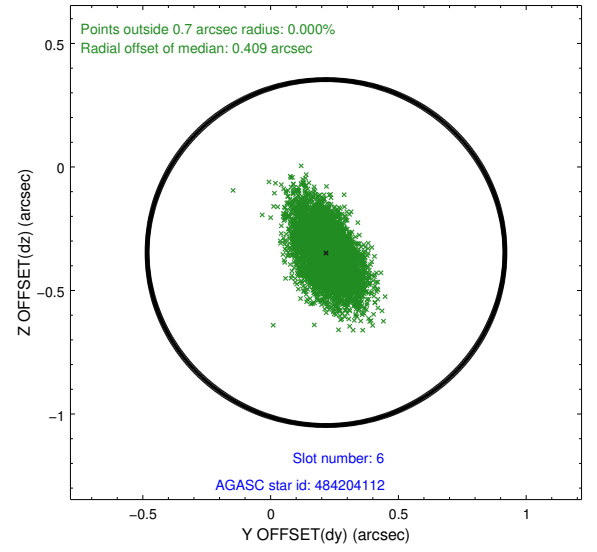
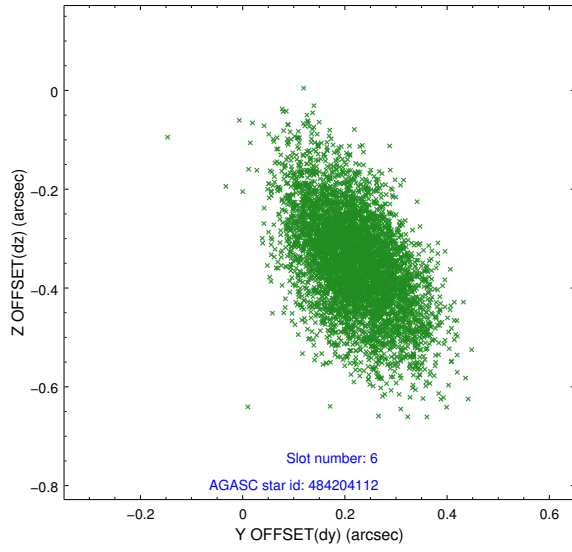
2.4.2 Slot 4



2.4.3 Slot 5

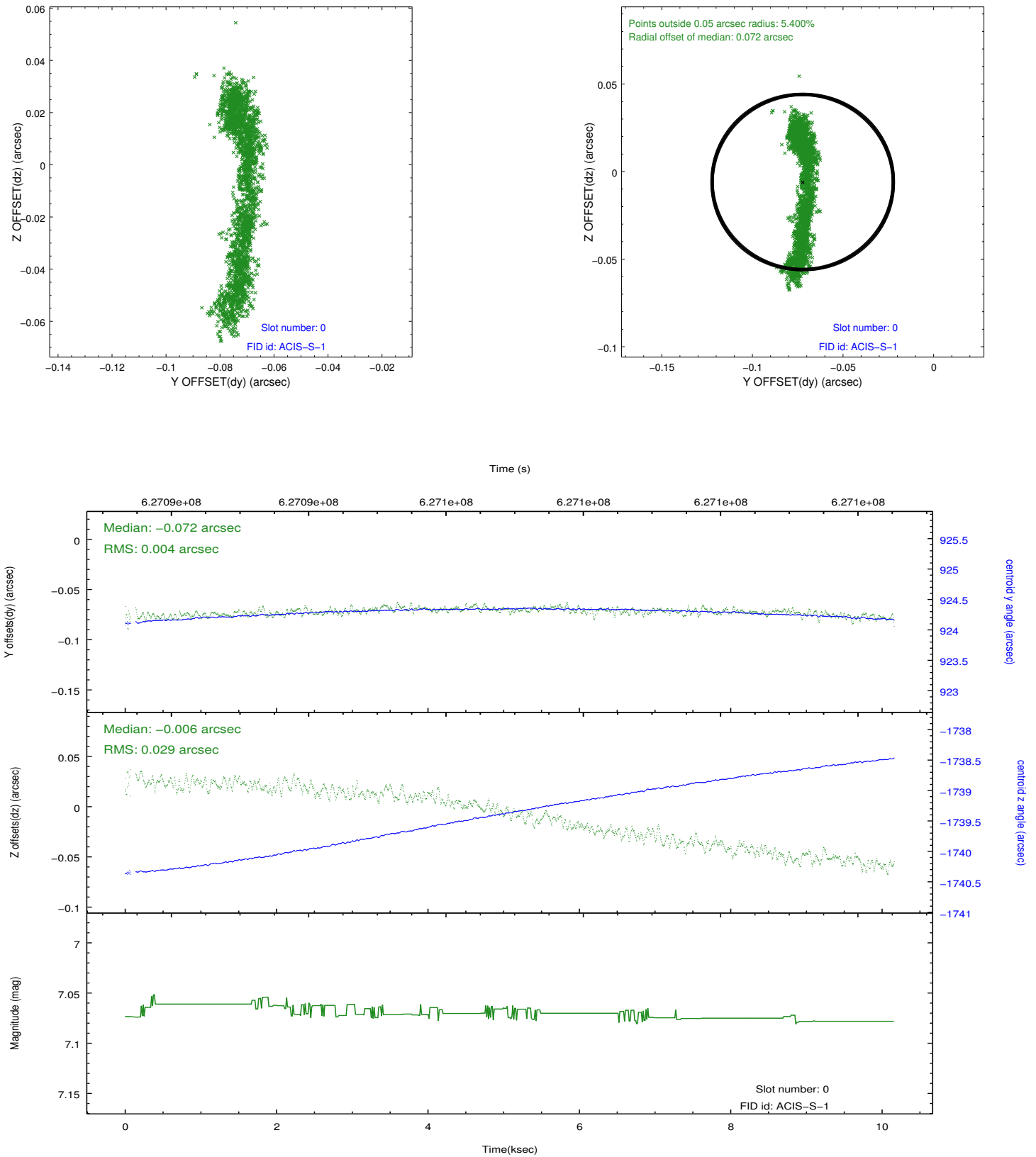


2.4.4 Slot 6

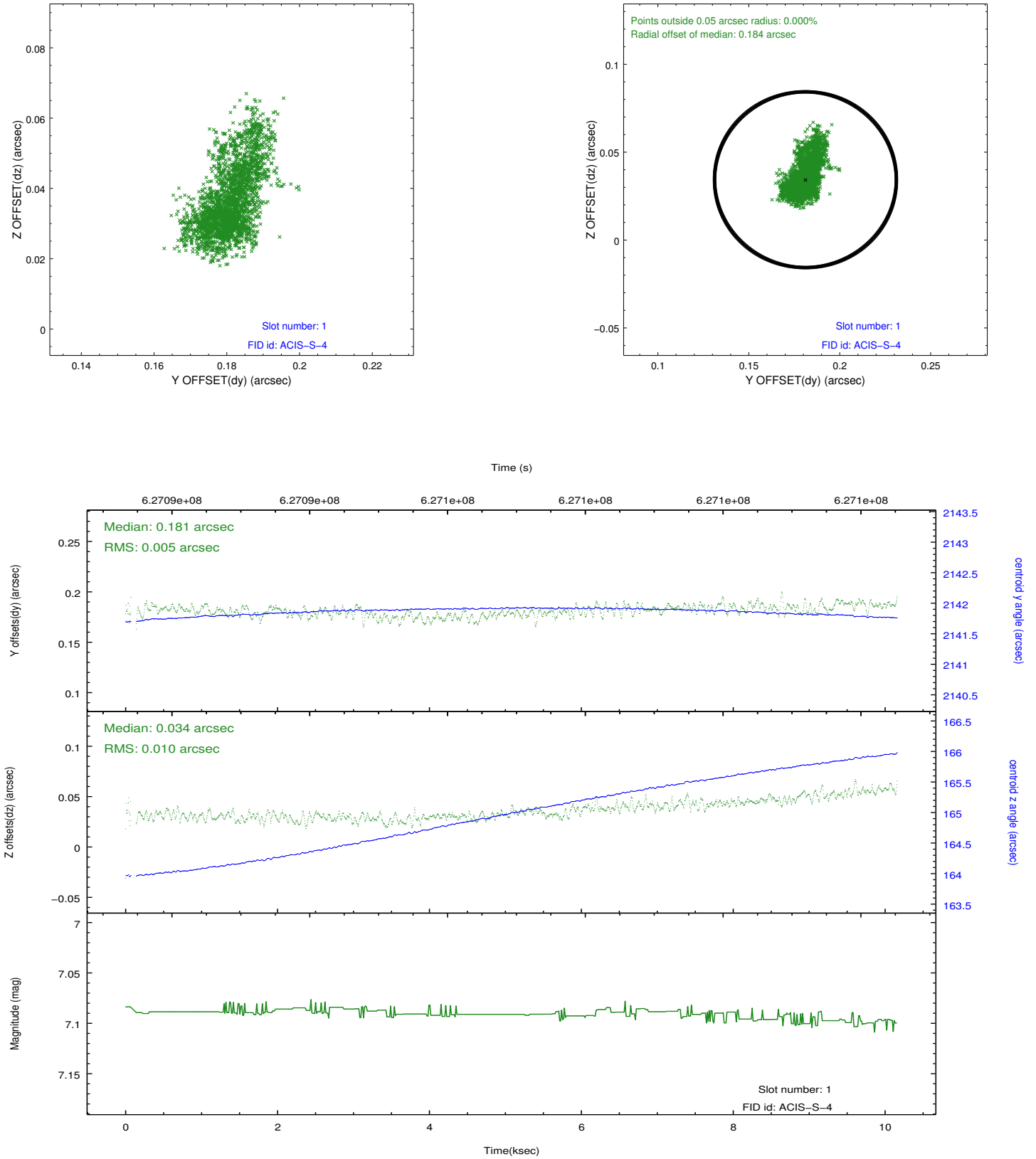


2.5 FID Slots

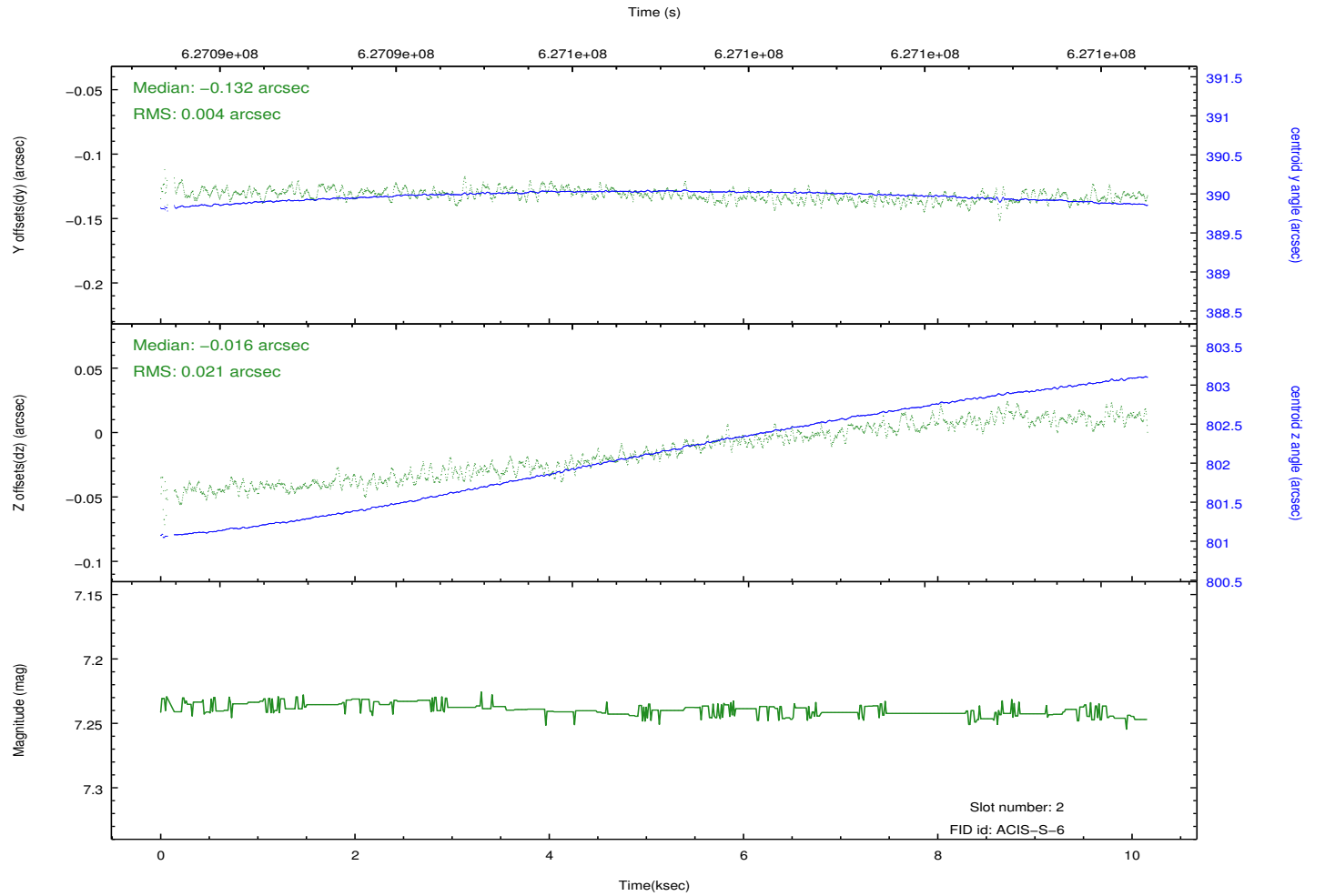
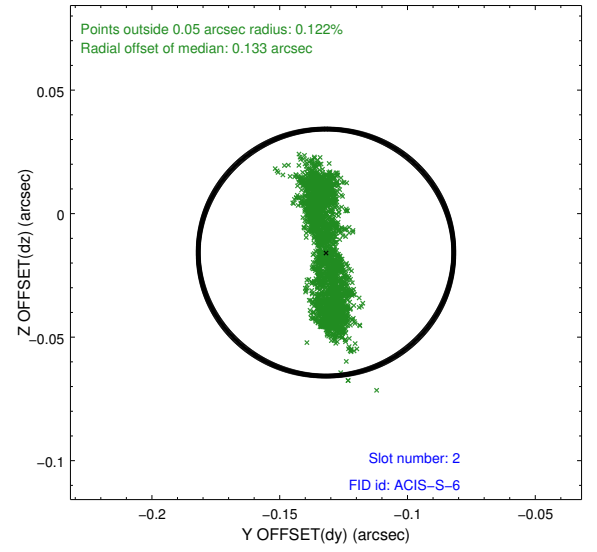
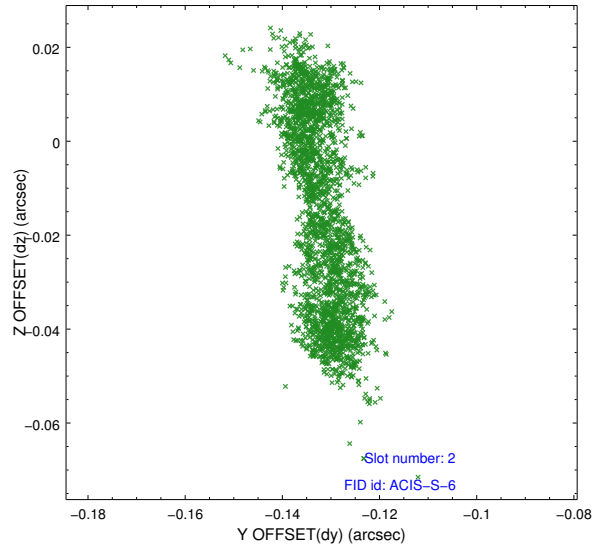
2.5.1 Slot 0



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)	2017.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.016100077152

A.2 Comments

Joint proposal with NRAO.

Observation coordinated with VLA.

Window constraint met.