

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22841 - L2 Version 1
Chandra X-Ray Center

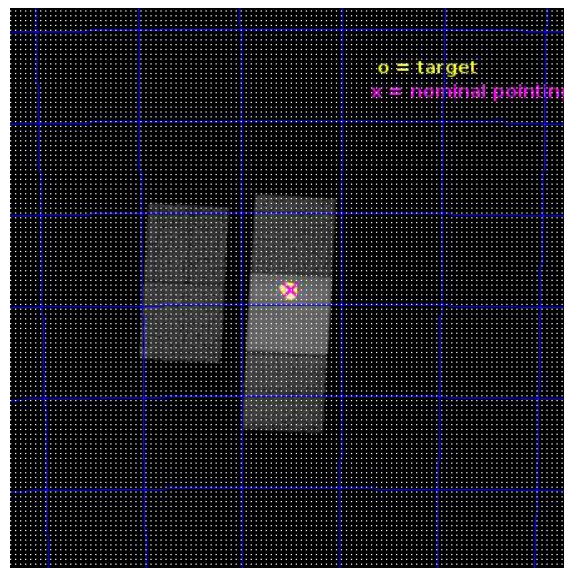
L2 Processing Date : Sep 13 2019

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1 Front

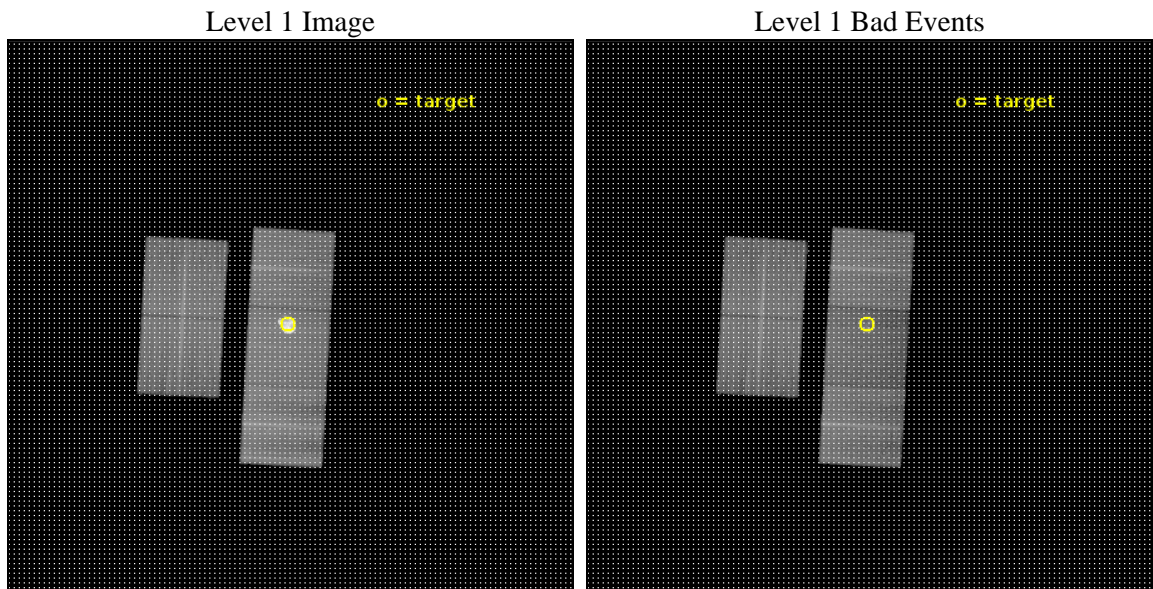
seq_num	503141	Sequence number
obs_id	22841	Observation id
title	GTO Portion of a Legacy Observation of N132D, the Most Luminous SNR in the Local Group	Proposal title
observer	Gordon Garmire	Principal investigator
object	N132D	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25875	Observer's specified target RA [deg]
dec_targ	-69.641667	Observer's specified target Dec [deg]
ra_nom	81.248239696177	Nominal RA [deg]
dec_nom	-69.640054242454	Nominal Dec [deg]
roll_nom	93.146784297456	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36975.988730907	Sum of GTIs [s]
livetime	36492.870216811	Livetime [s]
ontime2	36969.542600513	Sum of GTIs [s]
ontime3	36957.060789227	Sum of GTIs [s]
ontime6	36969.665799975	Sum of GTIs [s]
ontime7	36975.988730907	Sum of GTIs [s]
ontime8	36969.583630681	Sum of GTIs [s]
l2events	610444	Number of level 2 events



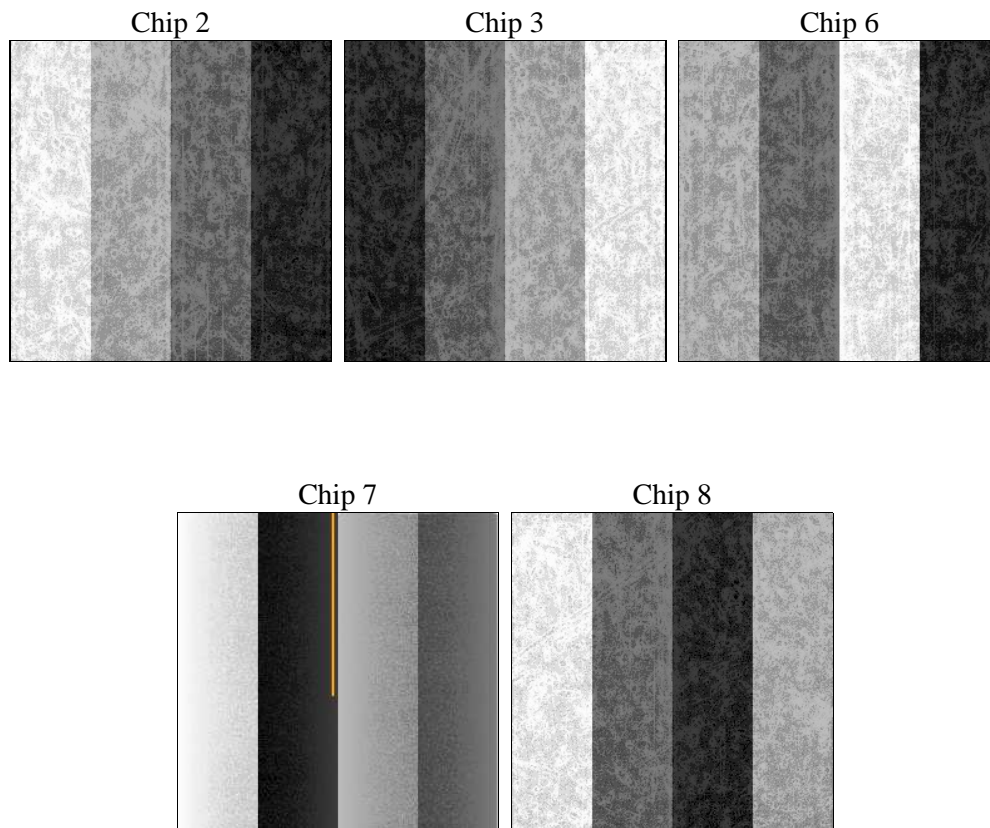
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36921.856000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	36975.988730907	Sum of GTIs [s]
caldbver	4.8.4.1	 	ontime2	36969.542600513	Sum of GTIs [s]
date	2019-09-13T22:17:00	Date and time of file creation	ontime3	36957.060789227	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	36969.665799975	Sum of GTIs [s]
			ontime7	36975.988730907	Sum of GTIs [s]
			ontime8	36969.583630681	Sum of GTIs [s]
			l1events	1826299	Number of level 1 events

2.1.4 Events

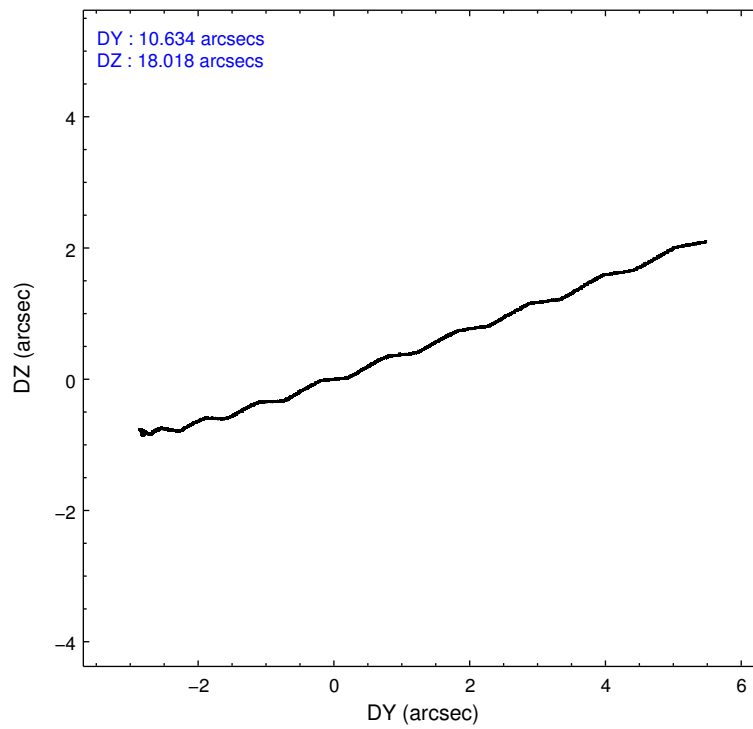
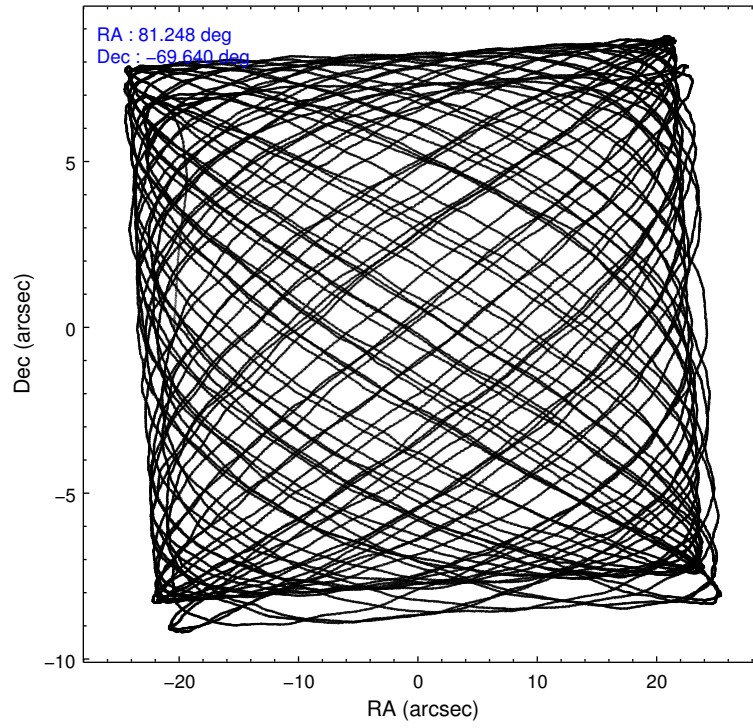
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	266712	260873	279419	676547	342748
rejected events	238722	232782	247651	163065	241734
rejected %	89%	89%	88%	24%	70%

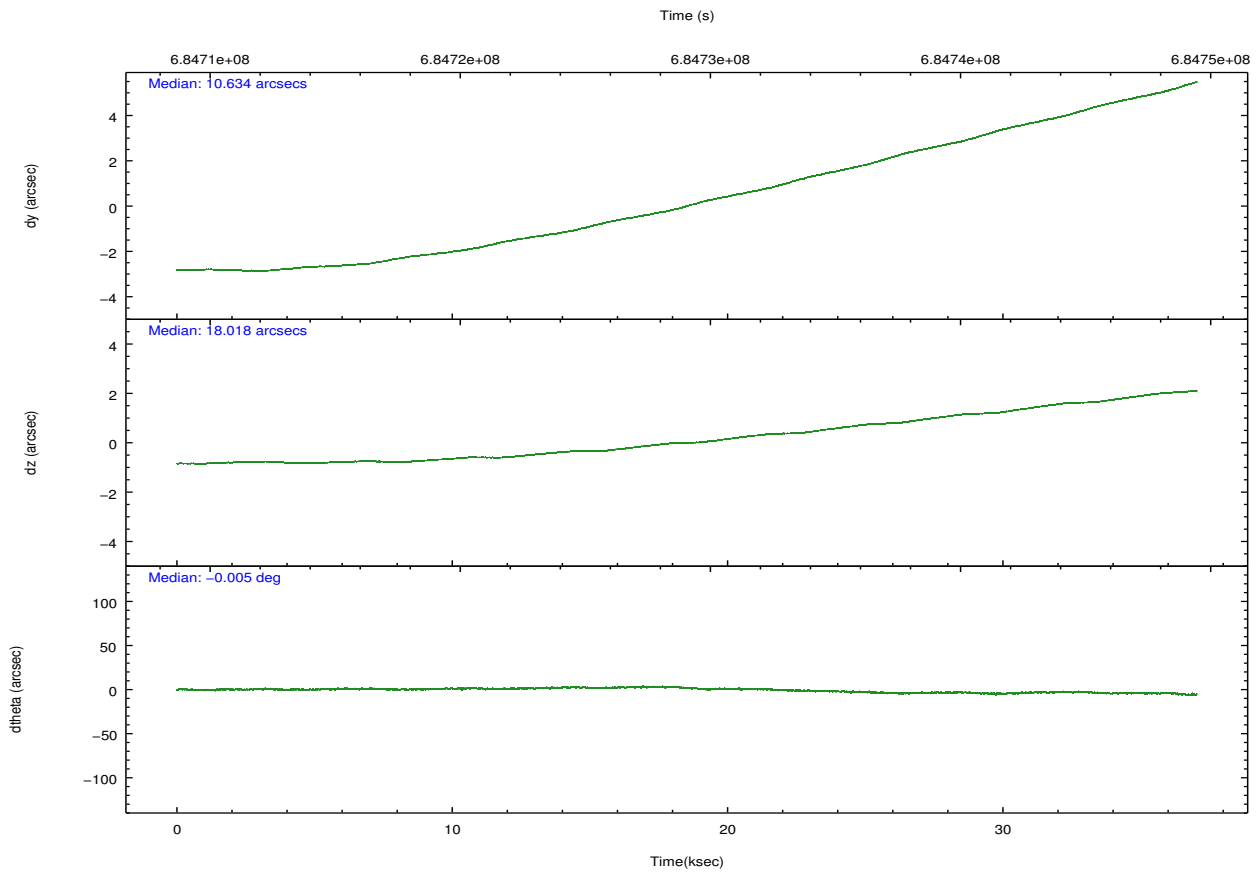
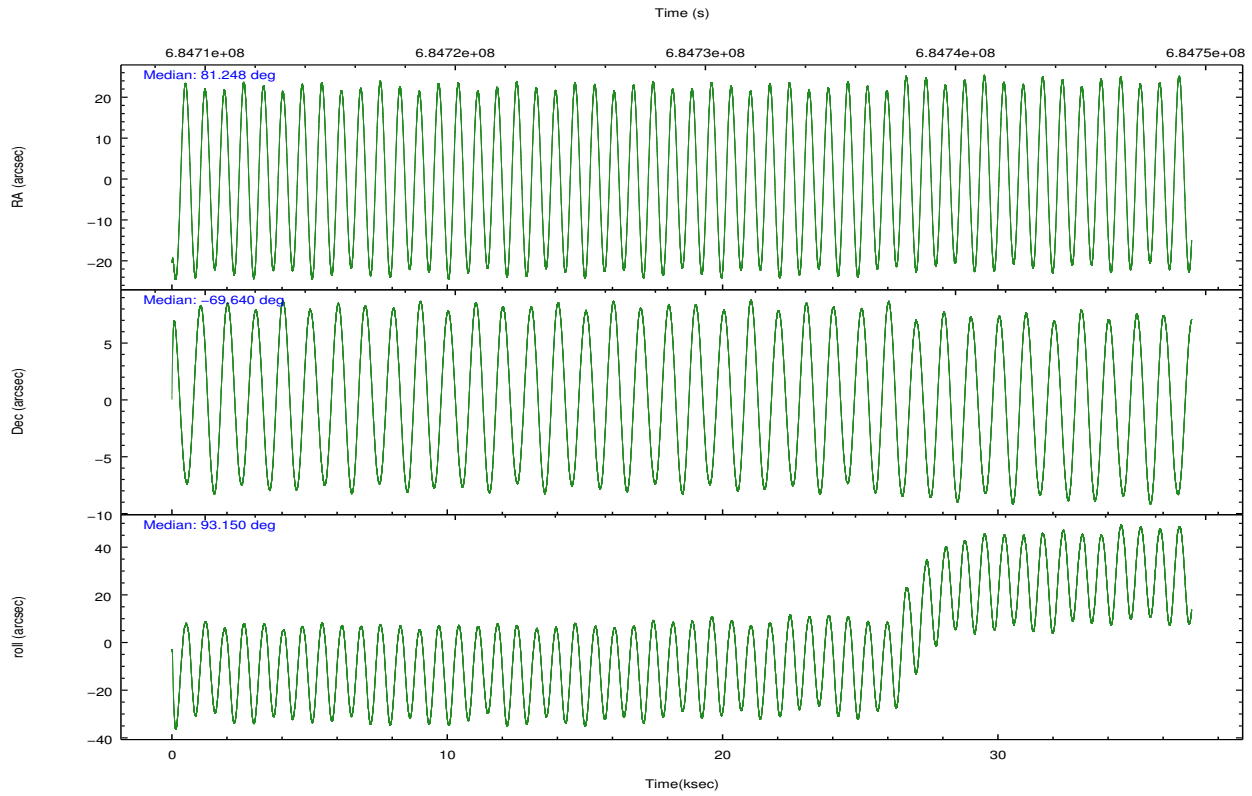
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	10516	10761	11715	126382	28654
	3%	4%	4%	18%	8%
grade 1 events	174	149	120	1216	332
	0%	0%	0%	0%	0%
grade 2 events	6984	6116	7637	134974	24389
	2%	2%	2%	19%	7%
grade 3 events	2636	2847	2791	56278	10461
	0%	1%	0%	8%	3%
grade 4 events	2722	2766	2922	54819	10195
	1%	1%	1%	8%	2%
grade 5 events	8602	10815	10791	33317	17170
	3%	4%	3%	4%	5%
grade 6 events	5136	5604	6711	141112	27334
	1%	2%	2%	20%	7%
grade 7 events	229942	221815	236732	128449	224213
	86%	85%	84%	18%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	81.292337	81.24823969617711	CCD I2 on	O1	Y
[deg] Pointing Dec	-69.662835	-69.64005424245386	CCD I3 on	O2	Y
[deg] Pointing Roll	93.031493	93.14678429745608	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	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	684710653.184000	684709049.51919	CCD S5 on	N	N
Observation start date	2019-09-12T21:23:04	2019-09-12T20:57:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	684747575.184000	684748218.35905	On-chip summing requested	N	N
Observation end date	2019-09-13T07:38:26	2019-09-13T07:50:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





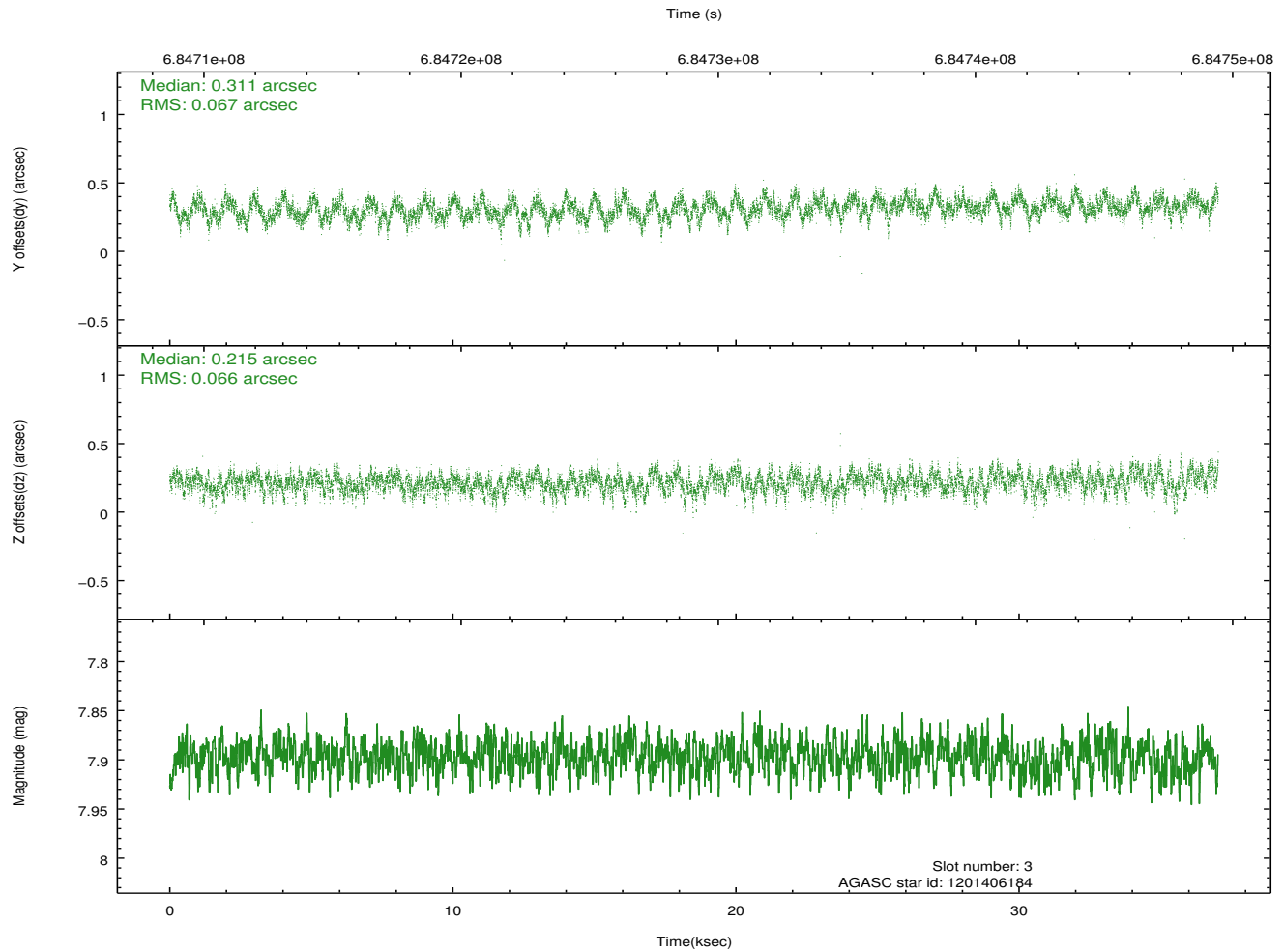
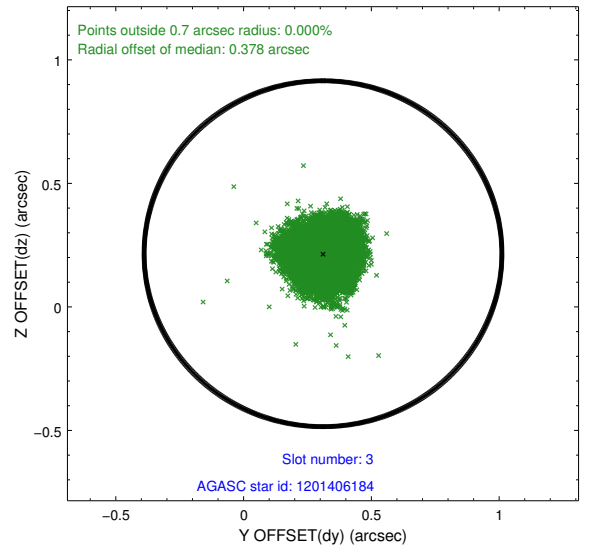
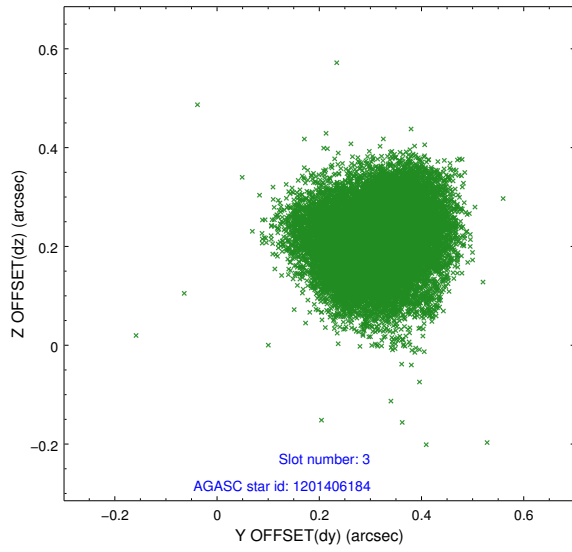
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.04	9034	1.000	-0.235	-0.189	0.038	0.089	0.000000	0.000000	-764.10	-1739
1	FID		ACIS-S-4	7.17	9031	1.000	0.655	0.163	0.088	0.168	0.000000	0.000000	2150.03	169
2	FID		ACIS-S-5	7.15	9031	1.000	-0.446	0.024	0.079	0.100	0.000000	0.000000	-1817.16	162
3	GUIDE	used	1201406184	7.90	18060	1.000	0.311	0.215	0.101	0.157	82.503234	-69.975517	-1216.82	-1429
4	GUIDE	used	1201409160	7.82	18062	1.000	-0.045	0.196	0.092	0.147	81.660661	-70.063595	-1464.84	-374
5	GUIDE	used	1201409312	9.25	18040	1.000	-0.293	-0.397	0.199	0.305	80.915231	-69.503059	598.54	444
6	GUIDE	used	1201409792	8.78	18052	1.000	0.280	0.236	0.119	0.195	82.417975	-70.260186	-2231.39	-1251
7	GUIDE	used	1201410888	7.97	18054	1.000	-0.244	-0.259	0.093	0.156	81.046858	-70.018210	-1261.66	369

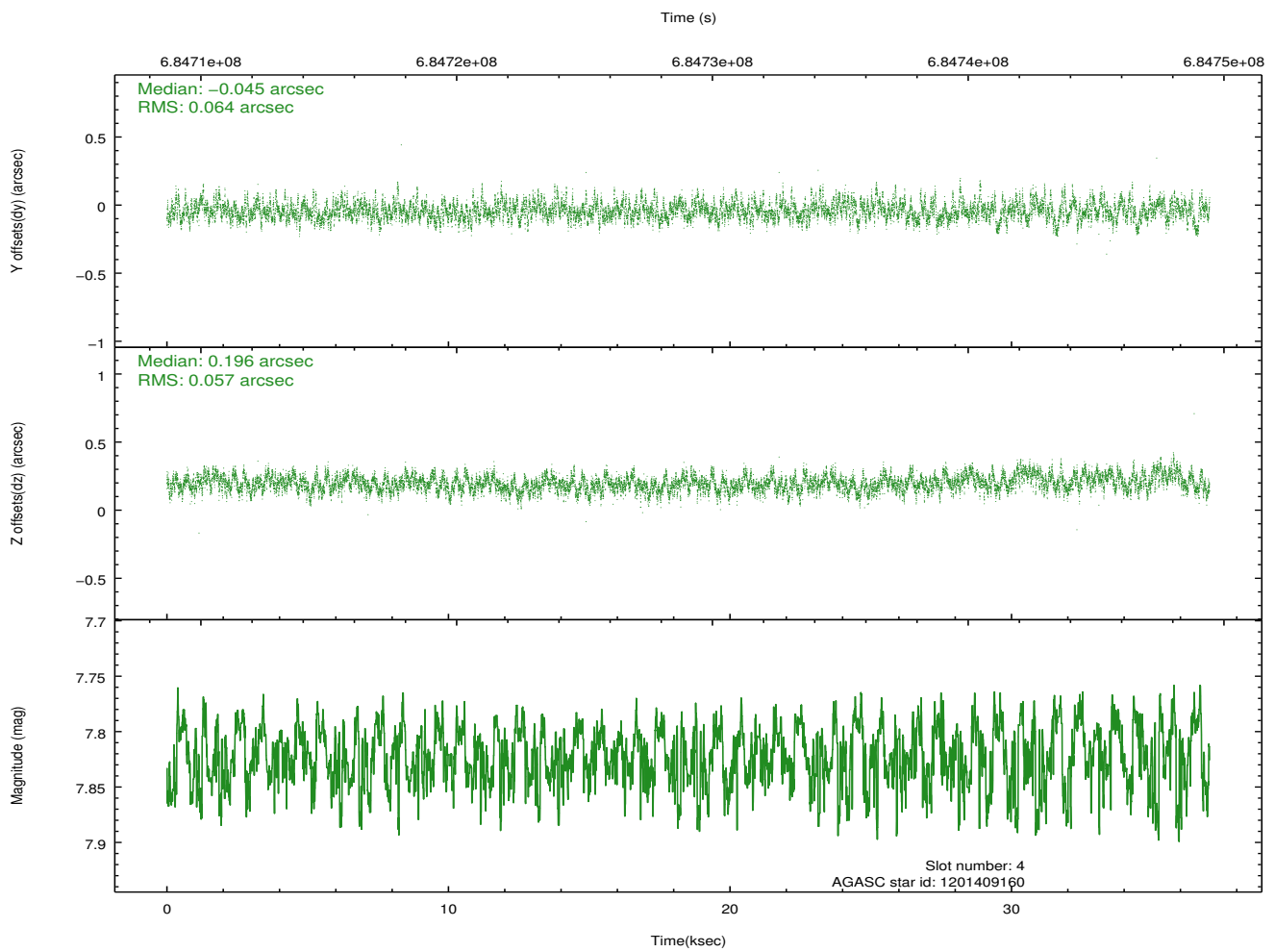
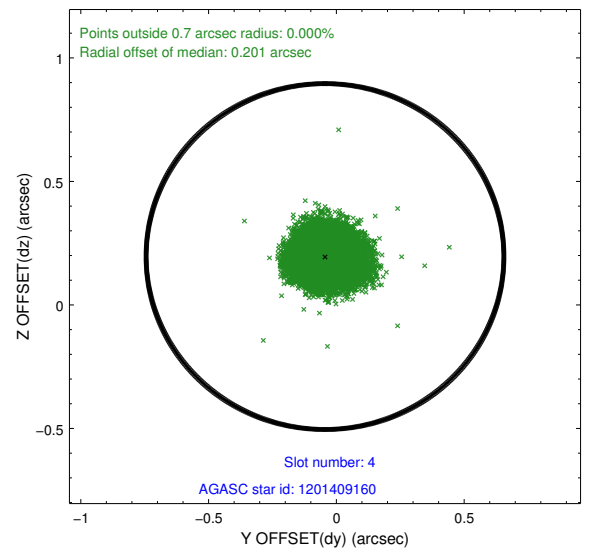
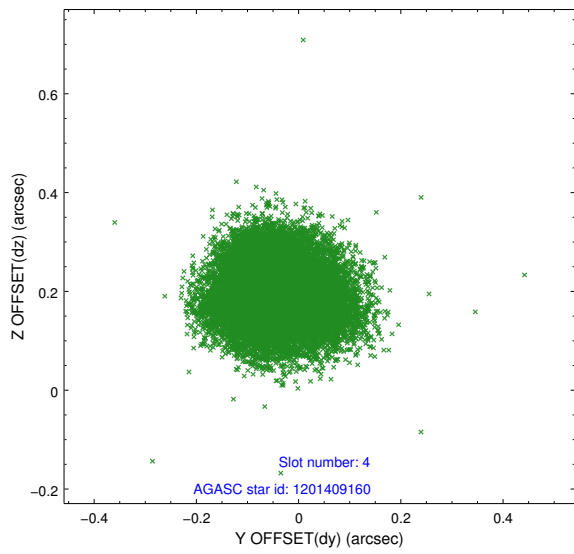
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2.4 Star Slots

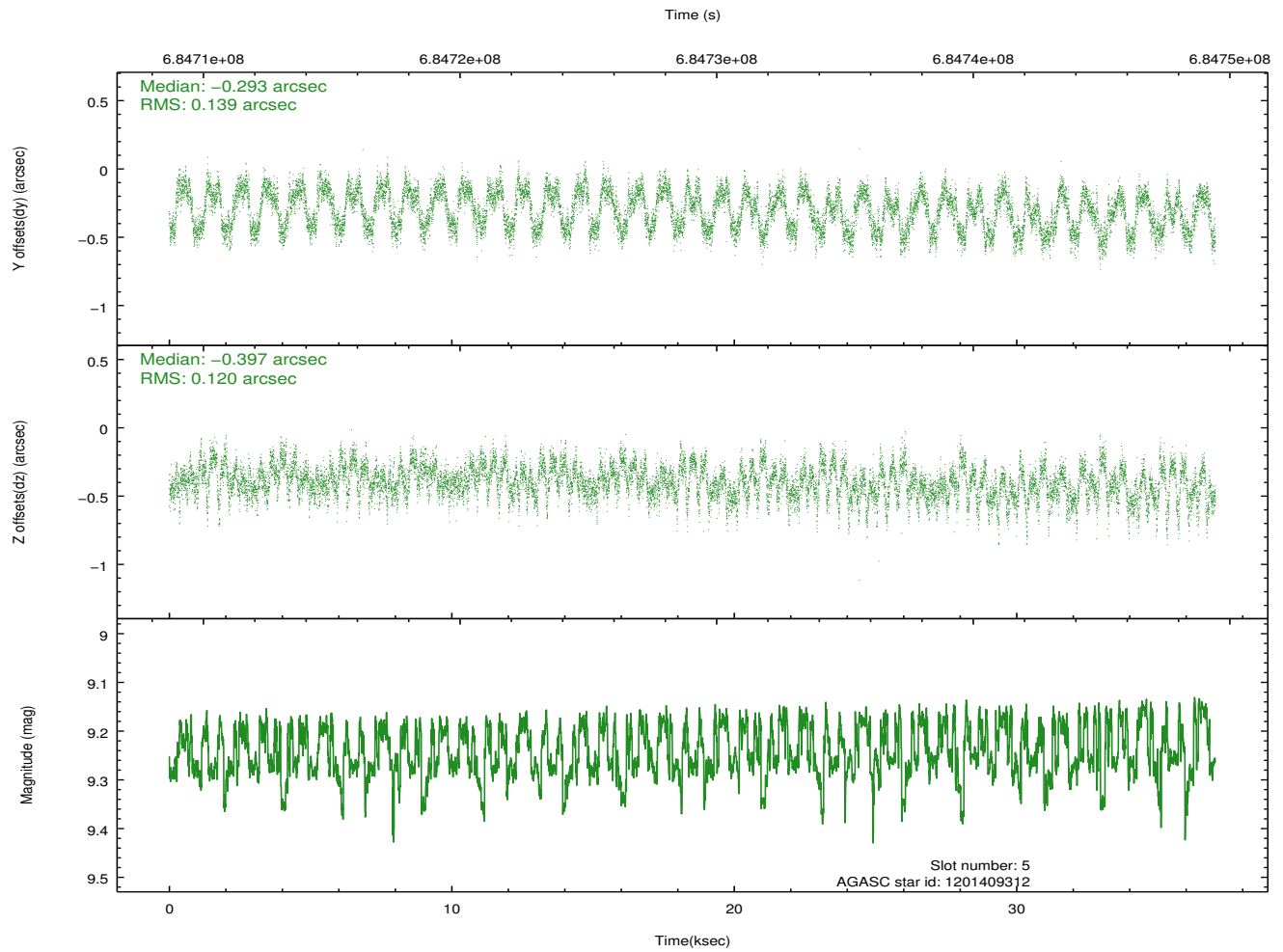
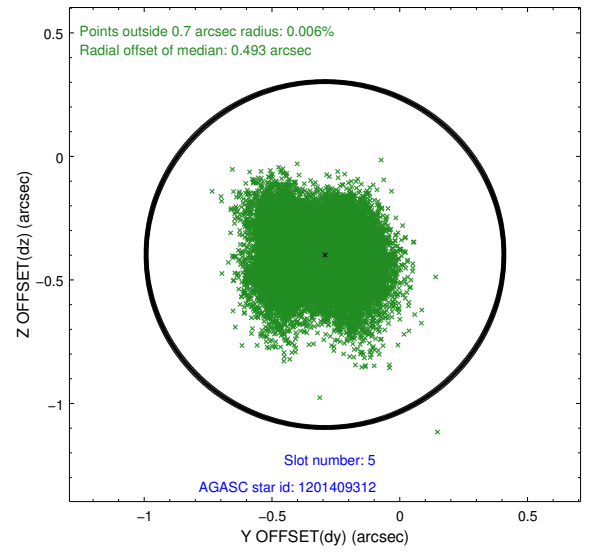
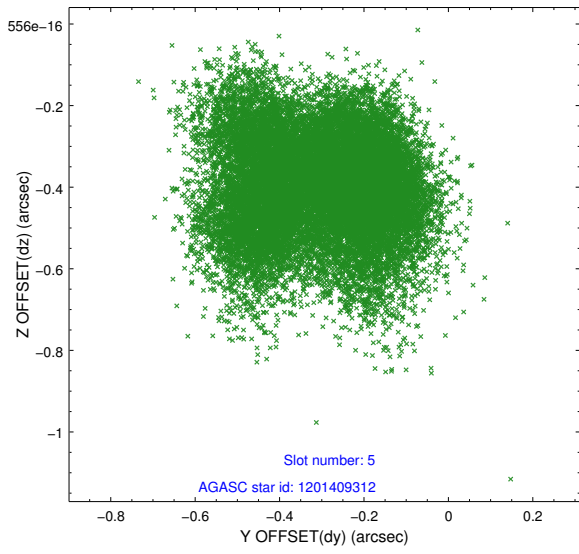
2.4.1 Slot 3



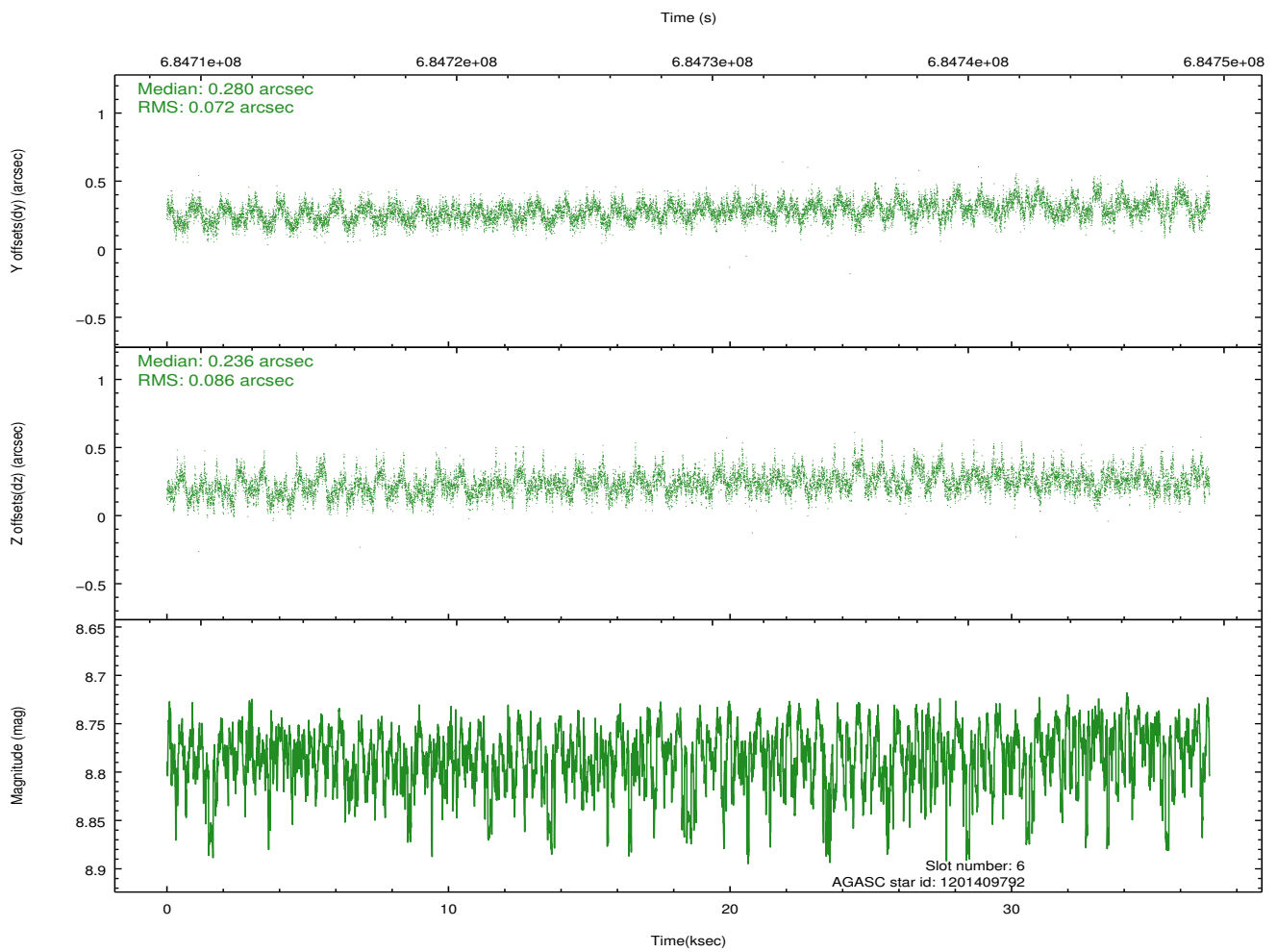
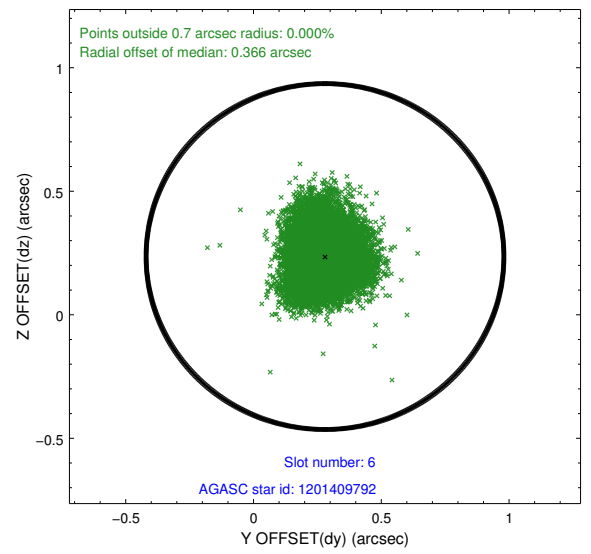
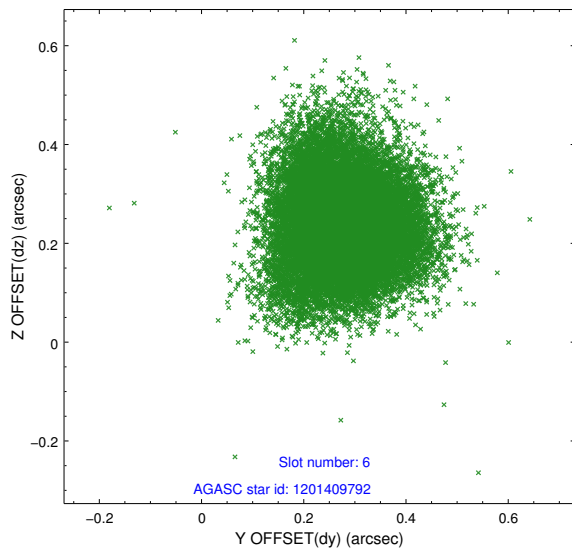
2.4.2 Slot 4



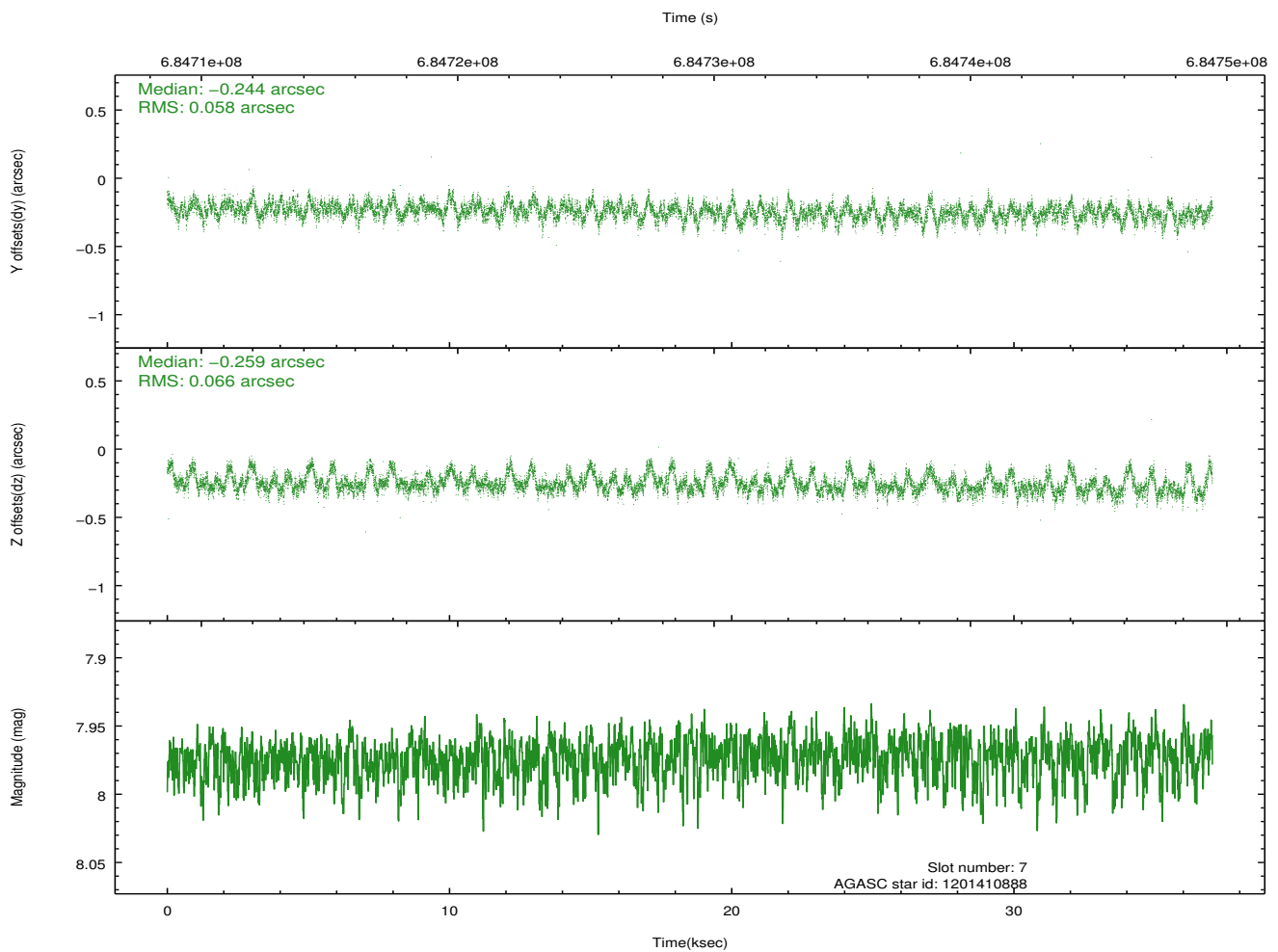
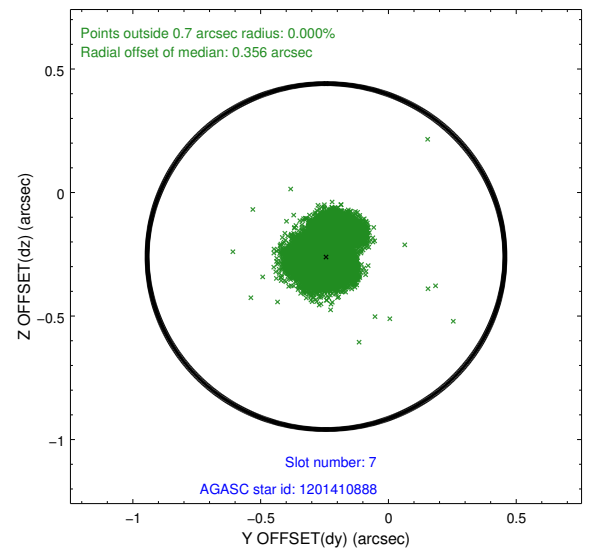
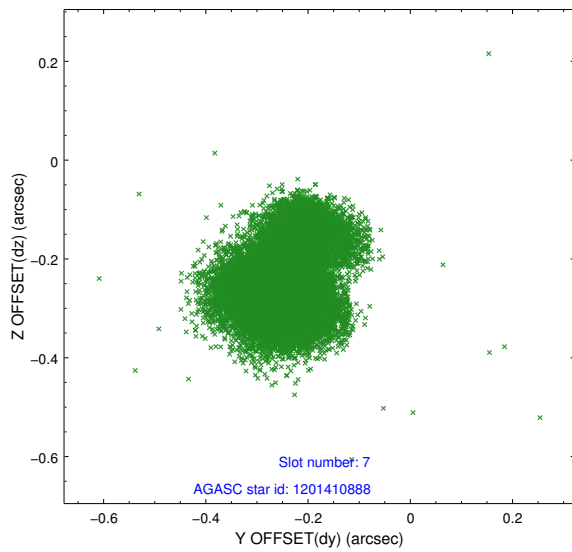
2.4.3 Slot 5



2.4.4 Slot 6

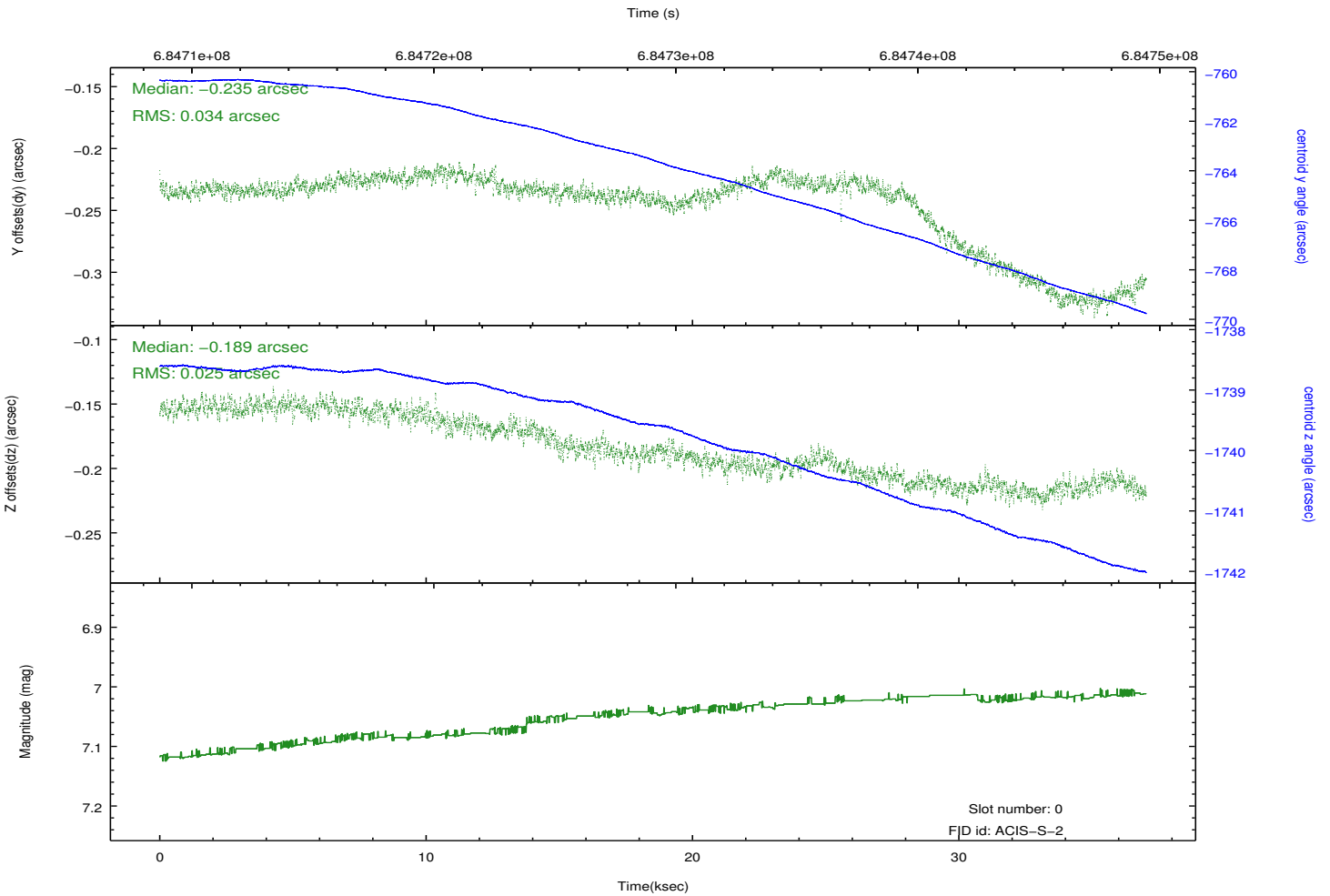
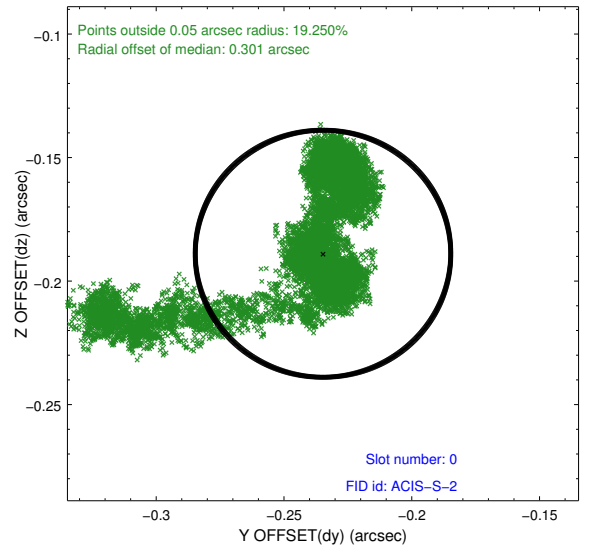
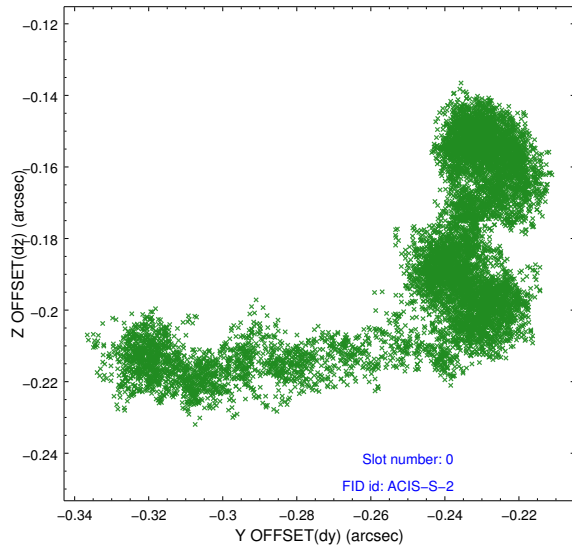


2.4.5 Slot 7

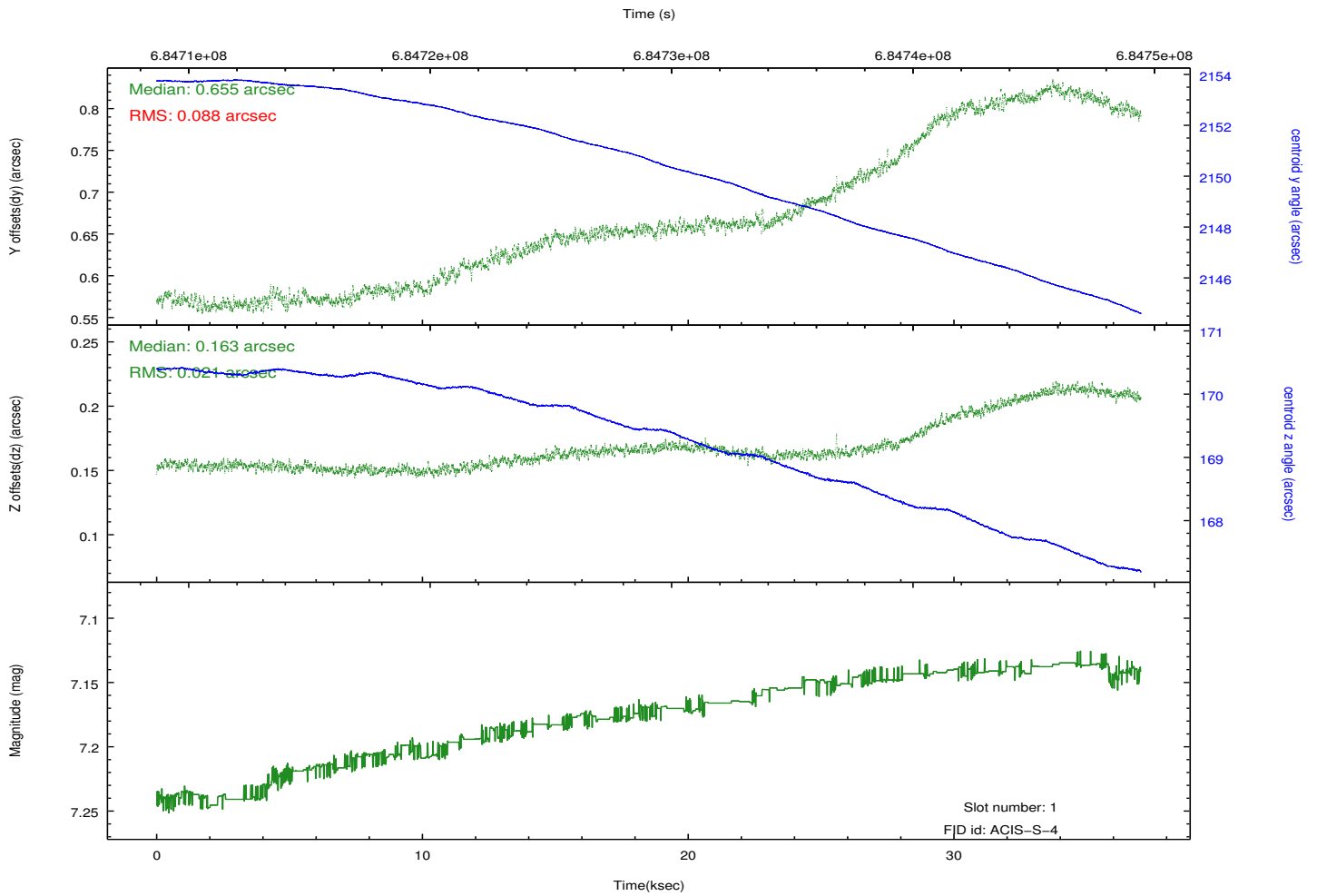
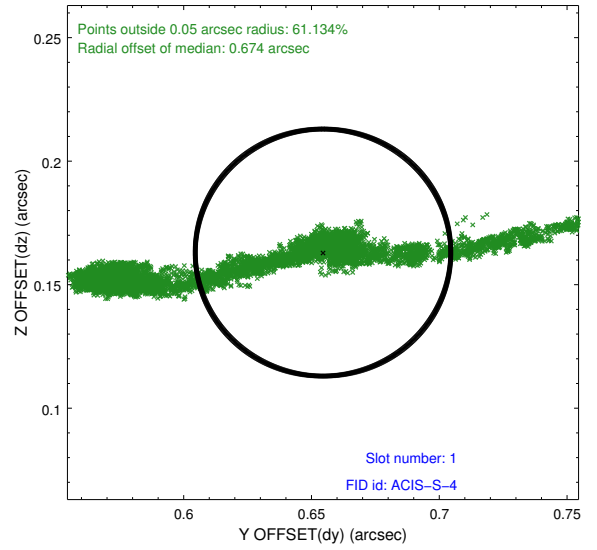
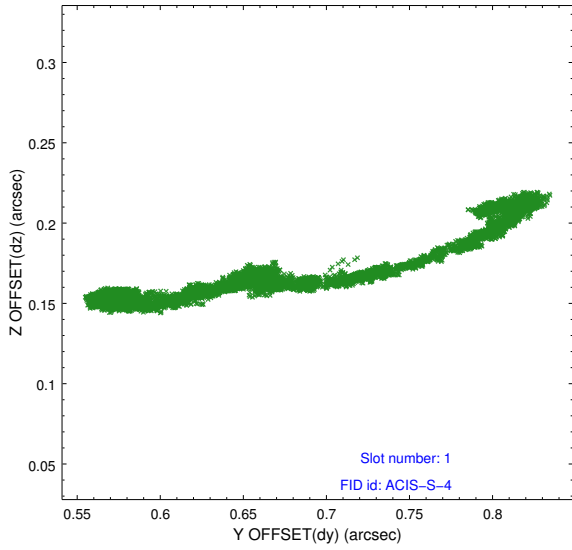


2.5 FID Slots

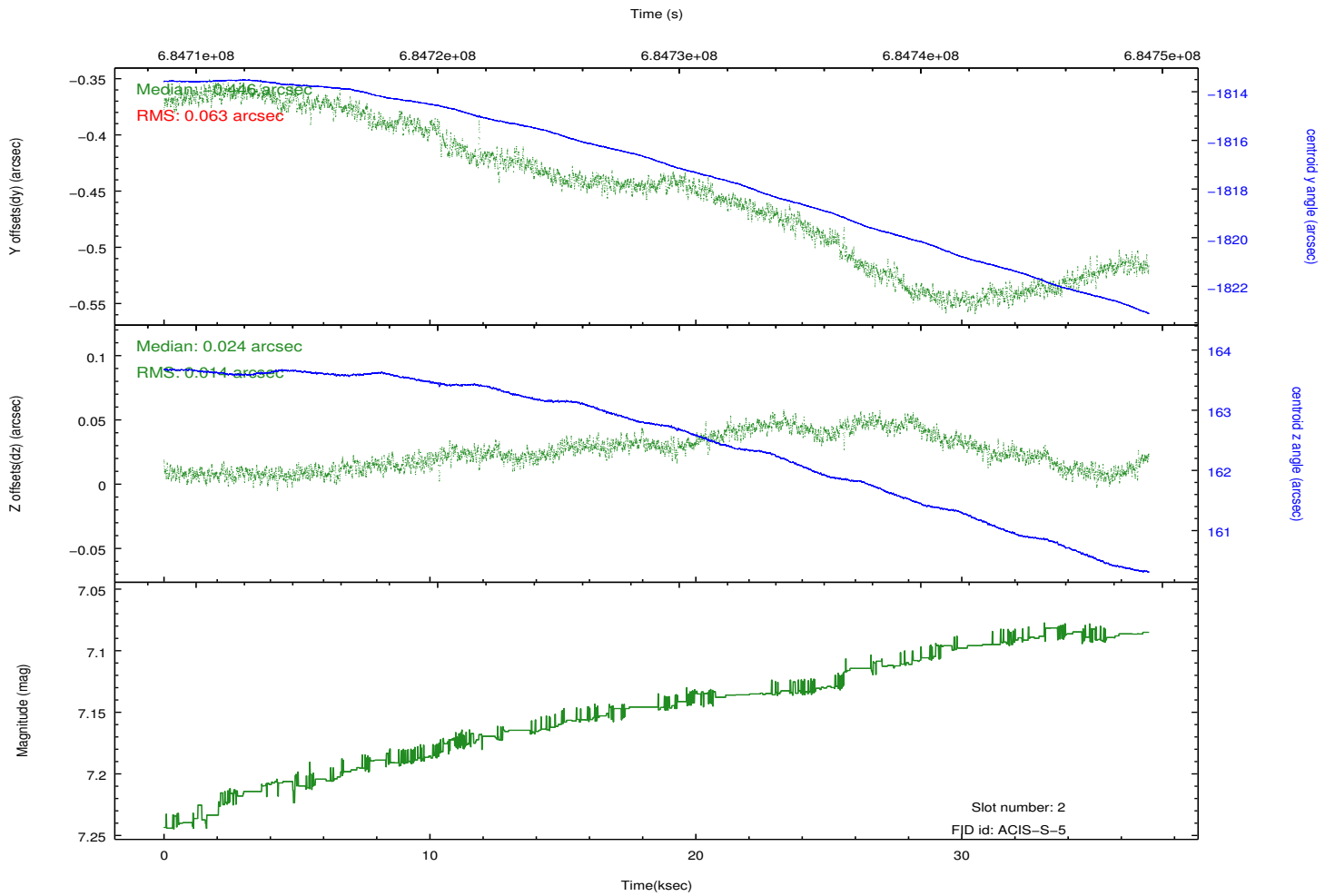
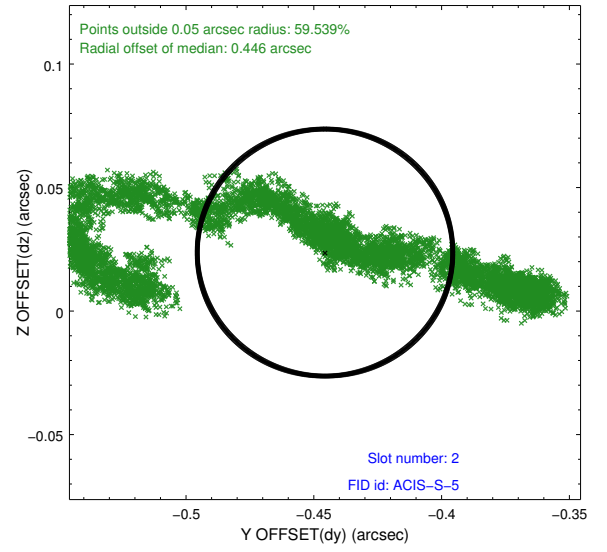
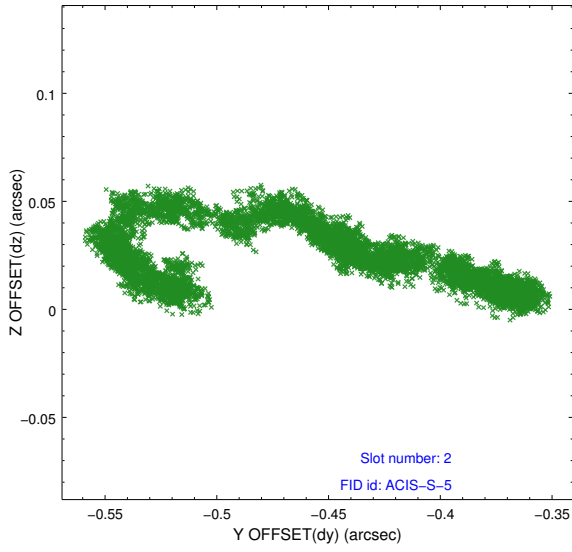
2.5.1 Slot 0



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)	2019.09.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.975988730907

A.2 Comments

Joint proposal with HST.