

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20889 - L2 Version 1
Chandra X-Ray Center

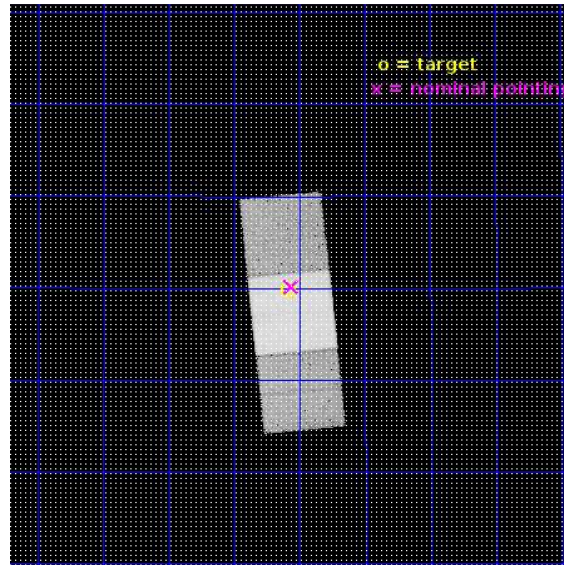
L2 Processing Date : Dec 22 2017

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1 Front

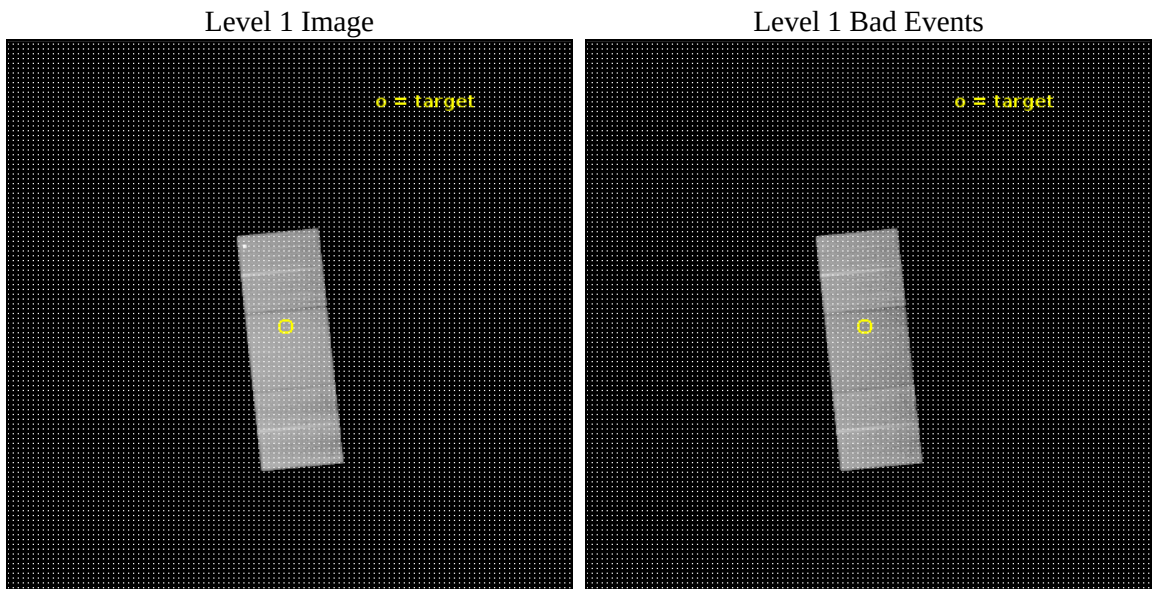
seq_num	703344	Sequence number
obs_id	20889	Observation id
title	The interactions of a `switching off' radio galaxy at crucial radio power	Proposal title
observer	Diana Worrall	Principal investigator
object	3C 192	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.395833	Observer's specified target RA [deg]
dec_targ	24.164	Observer's specified target Dec [deg]
ra_nom	121.39106004673	Nominal RA [deg]
dec_nom	24.169398842168	Nominal Dec [deg]
roll_nom	84.158570797399	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33111.100254774	Sum of GTIs [s]
livetime	32678.479353908	Livetime [s]
ontime6	33111.100254774	Sum of GTIs [s]
ontime7	33111.100254774	Sum of GTIs [s]
ontime8	33104.818094373	Sum of GTIs [s]
l2events	182233	Number of level 2 events



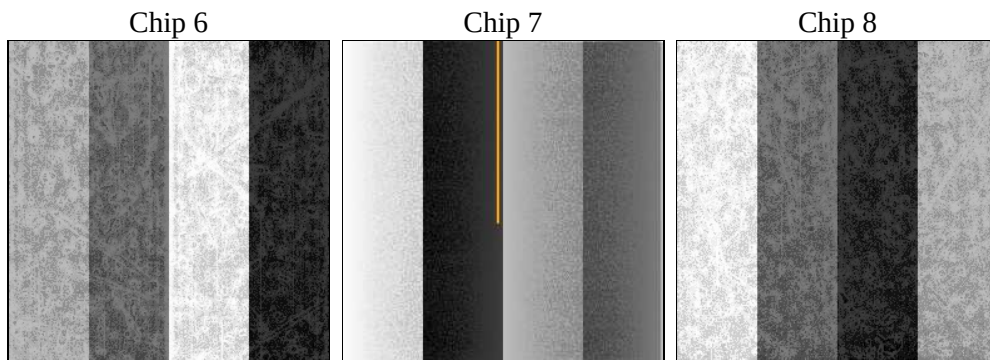
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	33111.100254774	Sum of GTIs [s]
caldbver	4.7.7	 	ontime6	33111.100254774	Sum of GTIs [s]
date	2017-12-22T17:57:14	Date and time of file creation	ontime7	33111.100254774	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	33104.818094373	Sum of GTIs [s]
			l1events	894413	Number of level 1 events

2.1.4 Events

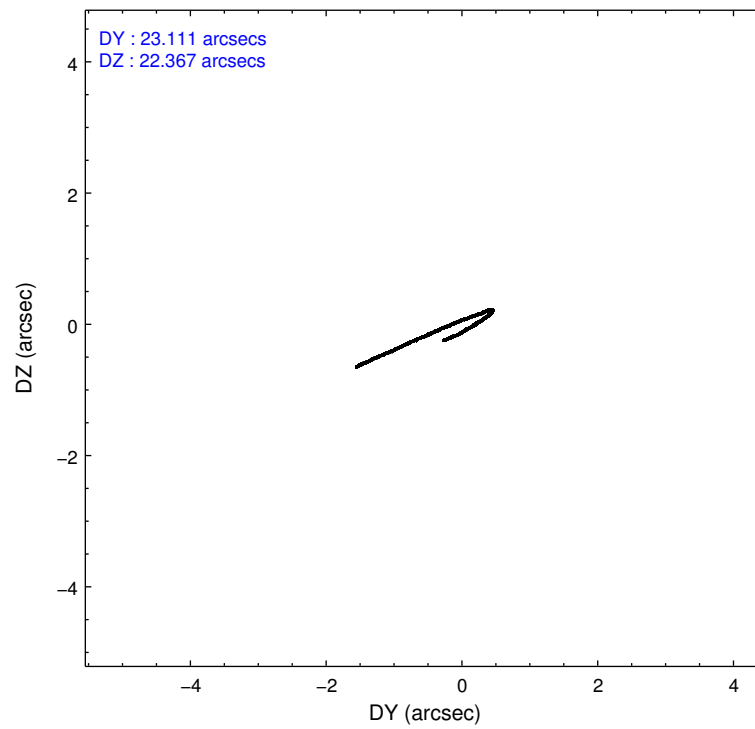
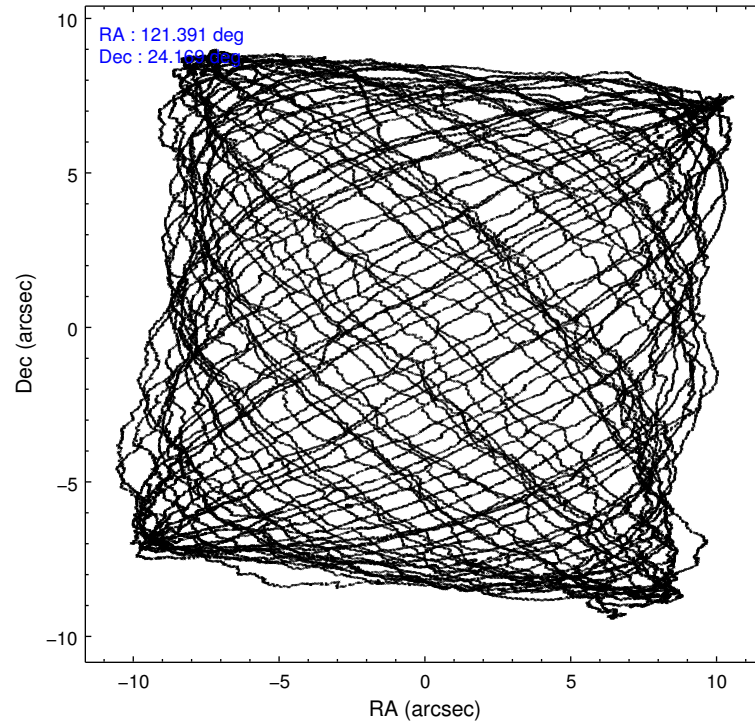
	ccd 6	ccd 7	ccd 8
level 1 events	269015	311281	314117
rejected events	231726	176083	234328
rejected %	86%	56%	74%

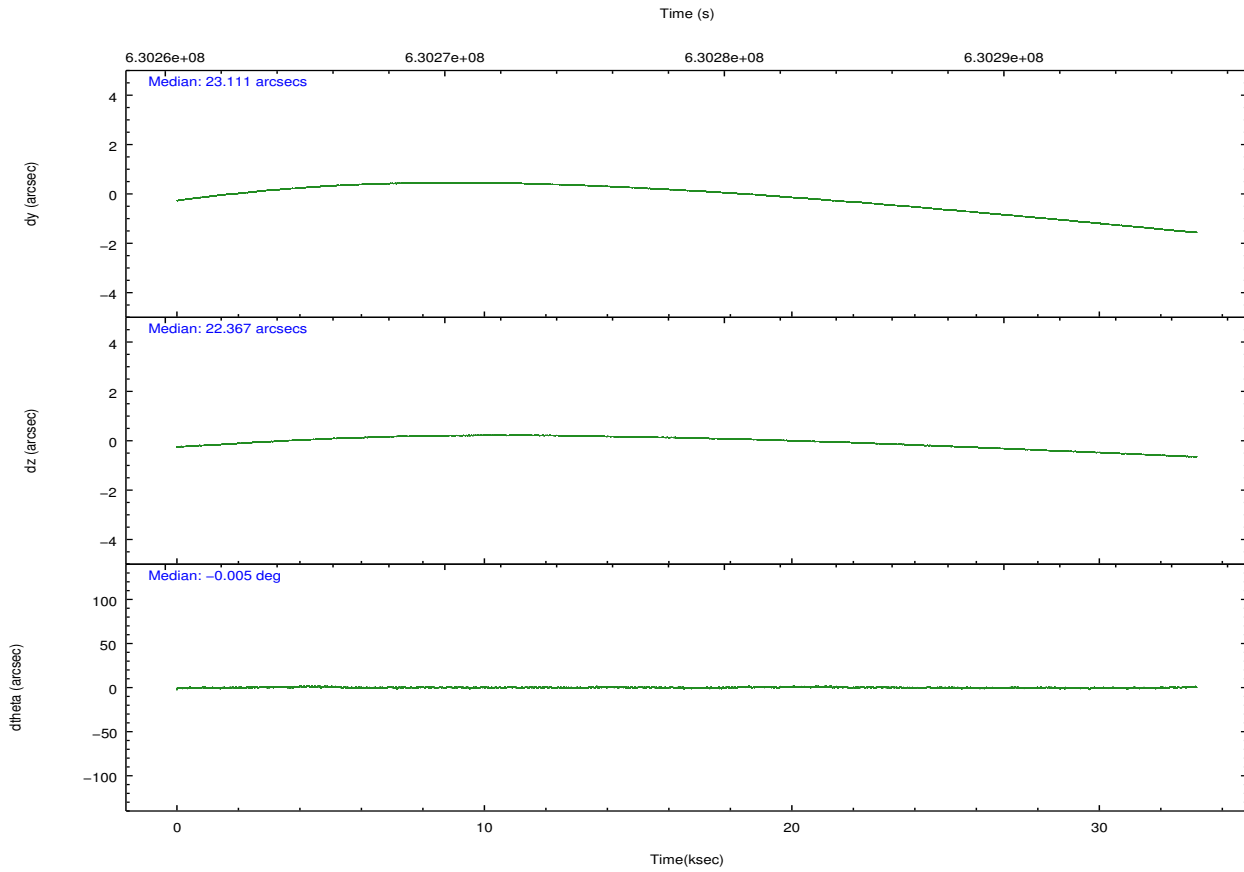
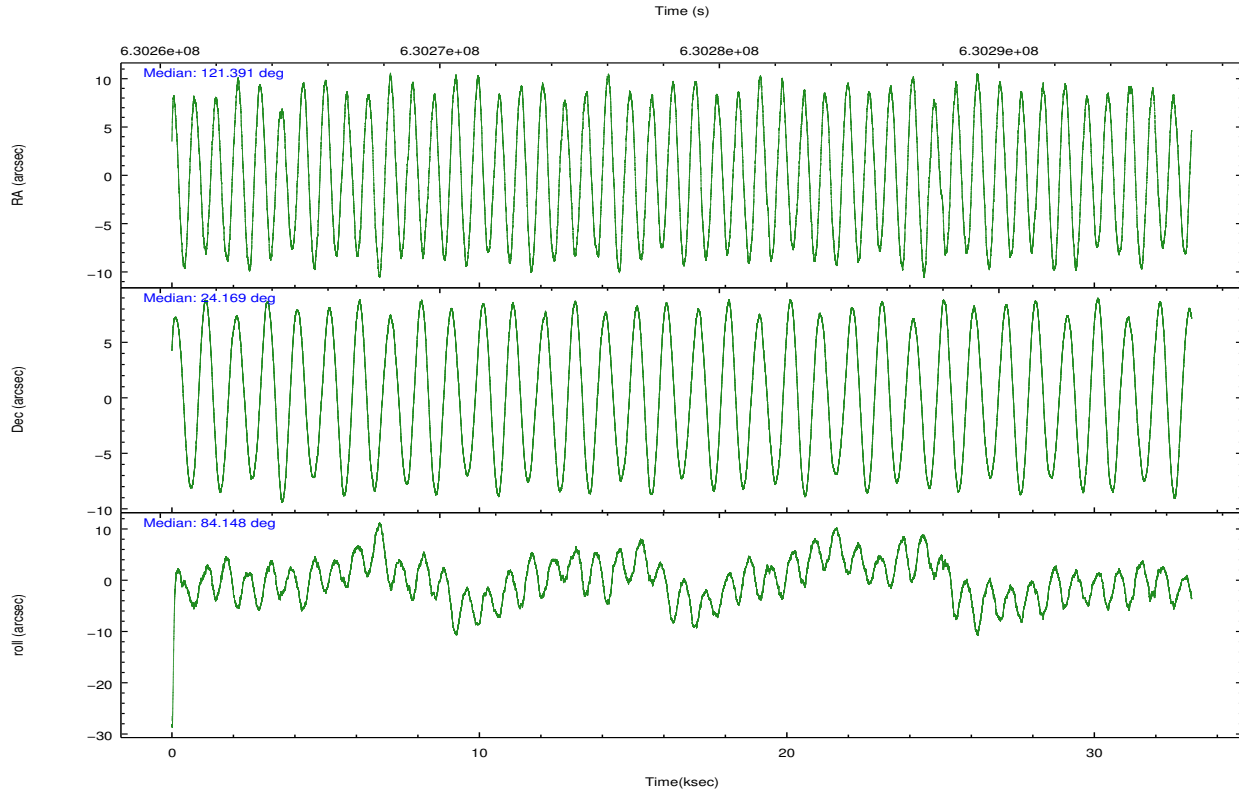
	ccd 6	ccd 7	ccd 8
grade 0 events	18509	11400	21765
	6%	3%	6%
grade 1 events	176	427	215
	0%	0%	0%
grade 2 events	6812	27981	19711
	2%	8%	6%
grade 3 events	2529	10773	8115
	0%	3%	2%
grade 4 events	2464	10778	7520
	0%	3%	2%
grade 5 events	10414	30588	16926
	3%	9%	5%
grade 6 events	6979	74277	22678
	2%	23%	7%
grade 7 events	221132	145057	217187
	82%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	121.403739	121.3910600467268	CCD I2 on	N	N
[deg] Pointing Dec	24.144499	24.16939884216781	CCD I3 on	O1	N
[deg] Pointing Roll	83.996770	84.15857079739902	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	O2	Y
[s] Observation start time (MET)	630262254.184000	630261222.49967	CCD S5 on	N	N
Observation start date	2017-12-21T16:49:45	2017-12-21T16:33:42	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	630295254.184000	630296020.73921	On-chip summing requested	N	N
Observation end date	2017-12-22T01:59:45	2017-12-22T02:13:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



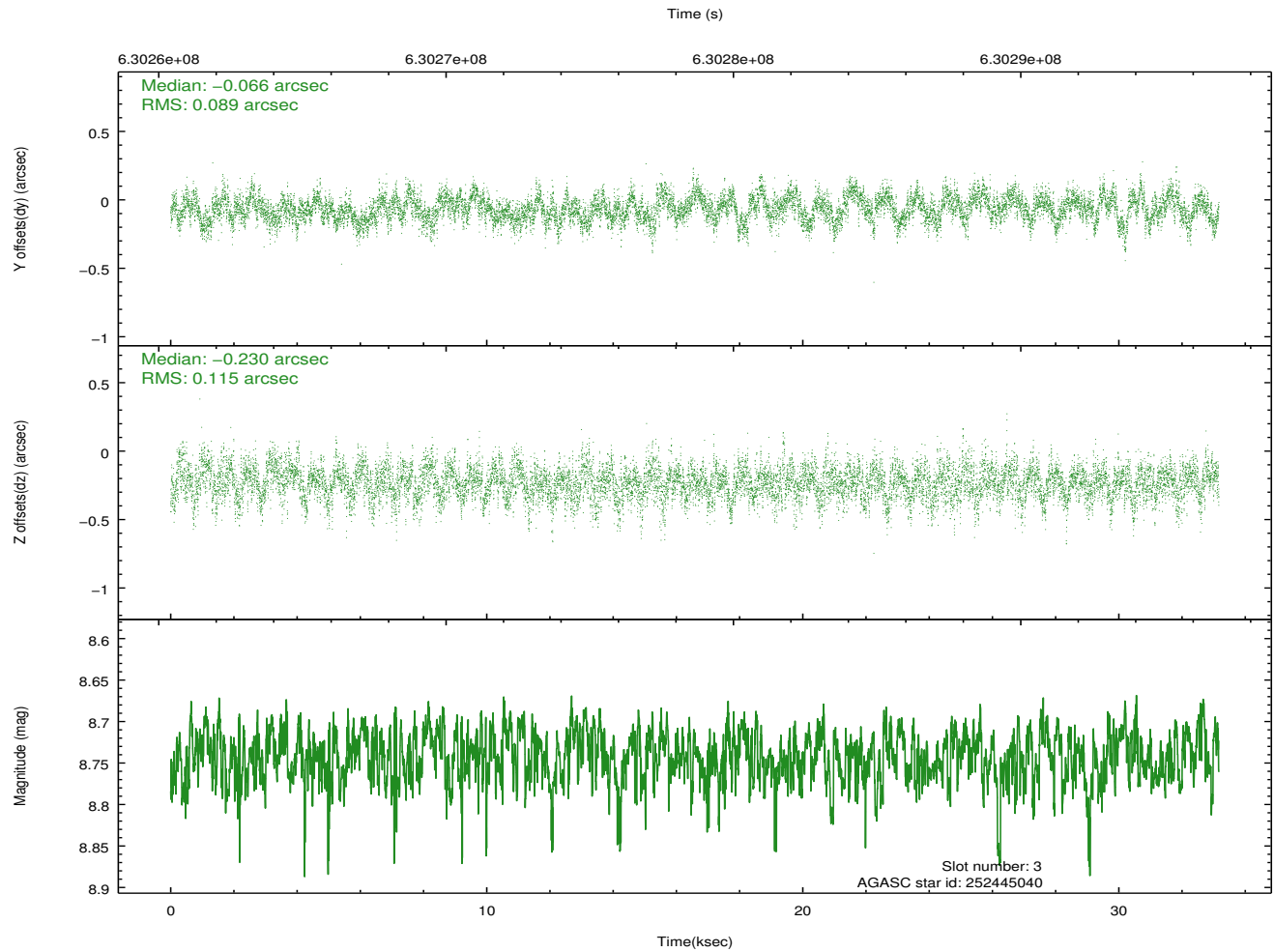
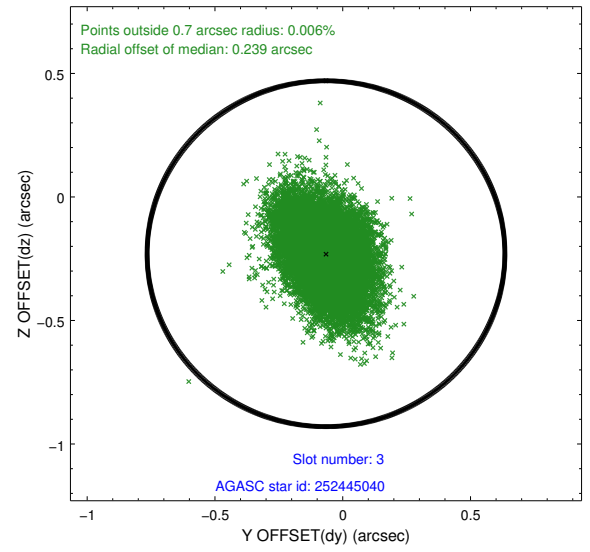
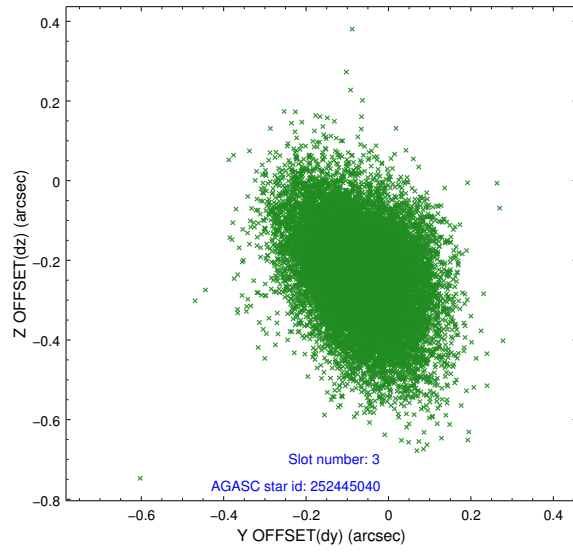


Slot Statistics

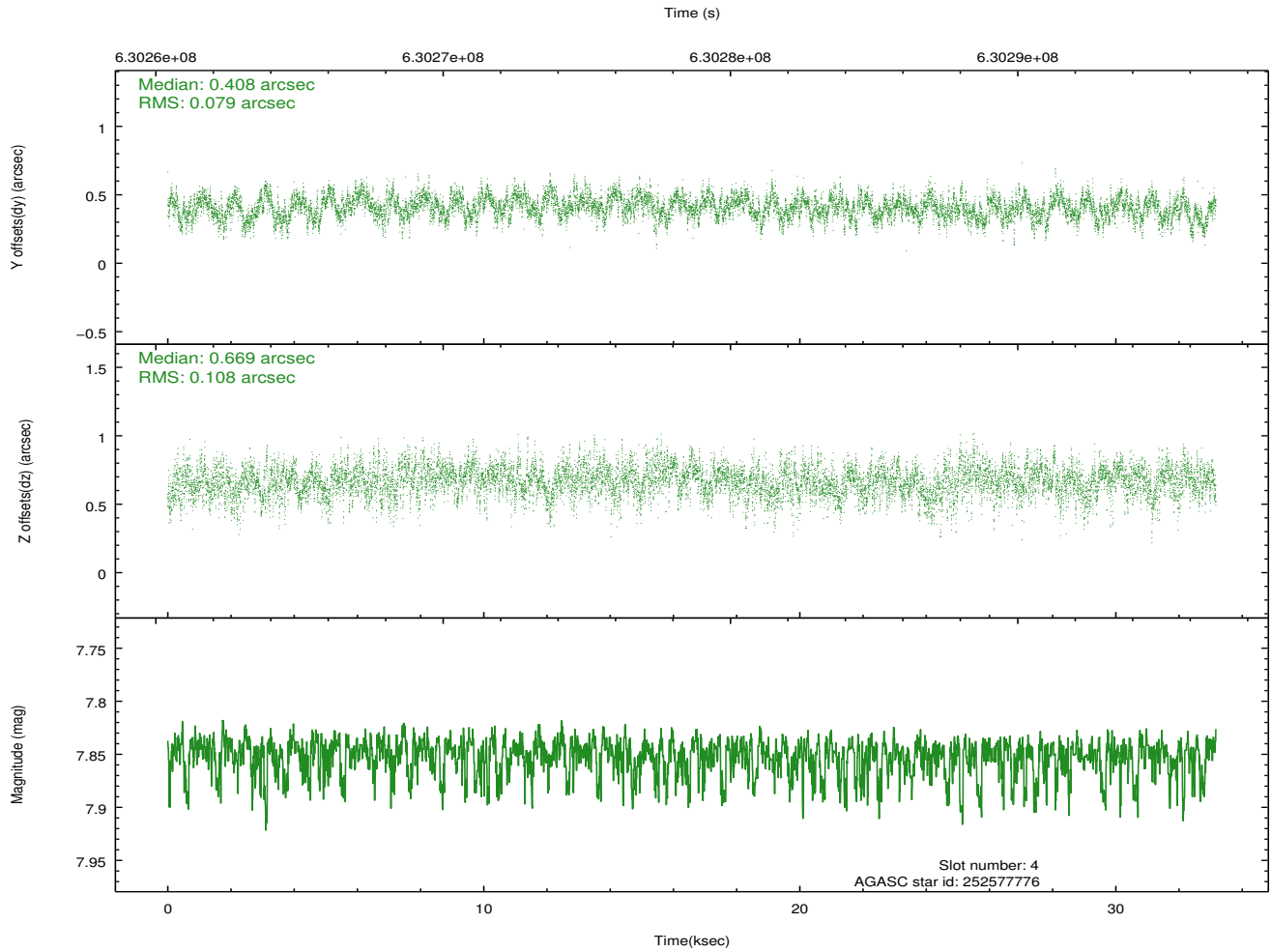
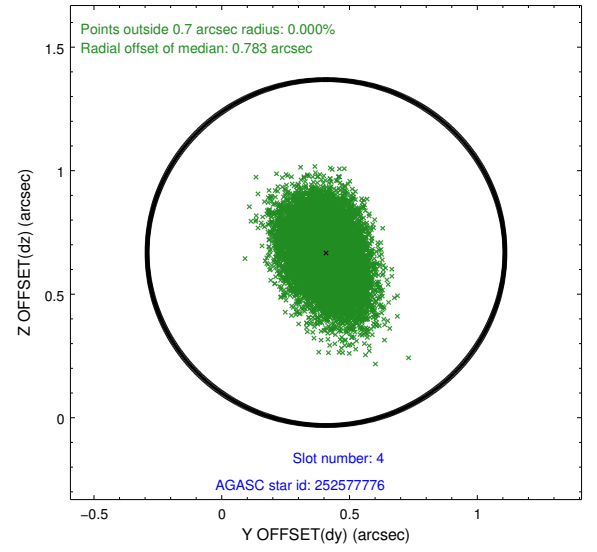
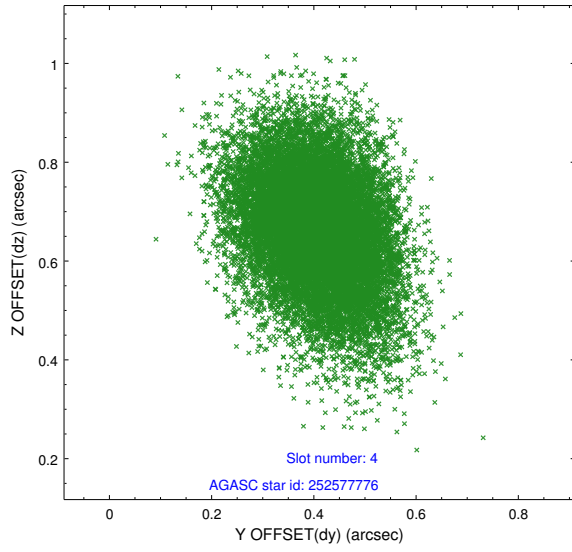
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	8090	-0.247	-0.189	0.015	0.023	0.000000	0.000000	-776.34	-1744.07
1	FID		ACIS-S-4	7.23	8089	0.605	0.170	0.026	0.036	0.000000	0.000000	2137.75	164.74
2	FID		ACIS-S-5	7.25	8090	-0.391	0.027	0.015	0.033	0.000000	0.000000	-1829.27	158.29
3	GUIDE	used	252445040	8.74	16164	-0.066	-0.230	0.151	0.258	120.948183	24.372625	662.93	1571.55
4	GUIDE	used	252577776	7.85	16172	0.408	0.669	0.139	0.236	121.963441	24.018102	-255.78	-1877.36
5	GUIDE	used	252978608	6.90	16179	-0.156	-0.442	0.116	0.207	121.037358	24.508140	1177.78	1330.36
6	GUIDE	used	253108144	8.72	16164	-0.209	0.050	0.143	0.241	121.921909	24.738762	2308.44	-1460.53
7	GUIDE	used	253108456	8.82	16044	0.030	-0.047	0.203	0.360	122.025353	24.715177	2261.16	-1806.24

2.4 Star Slots

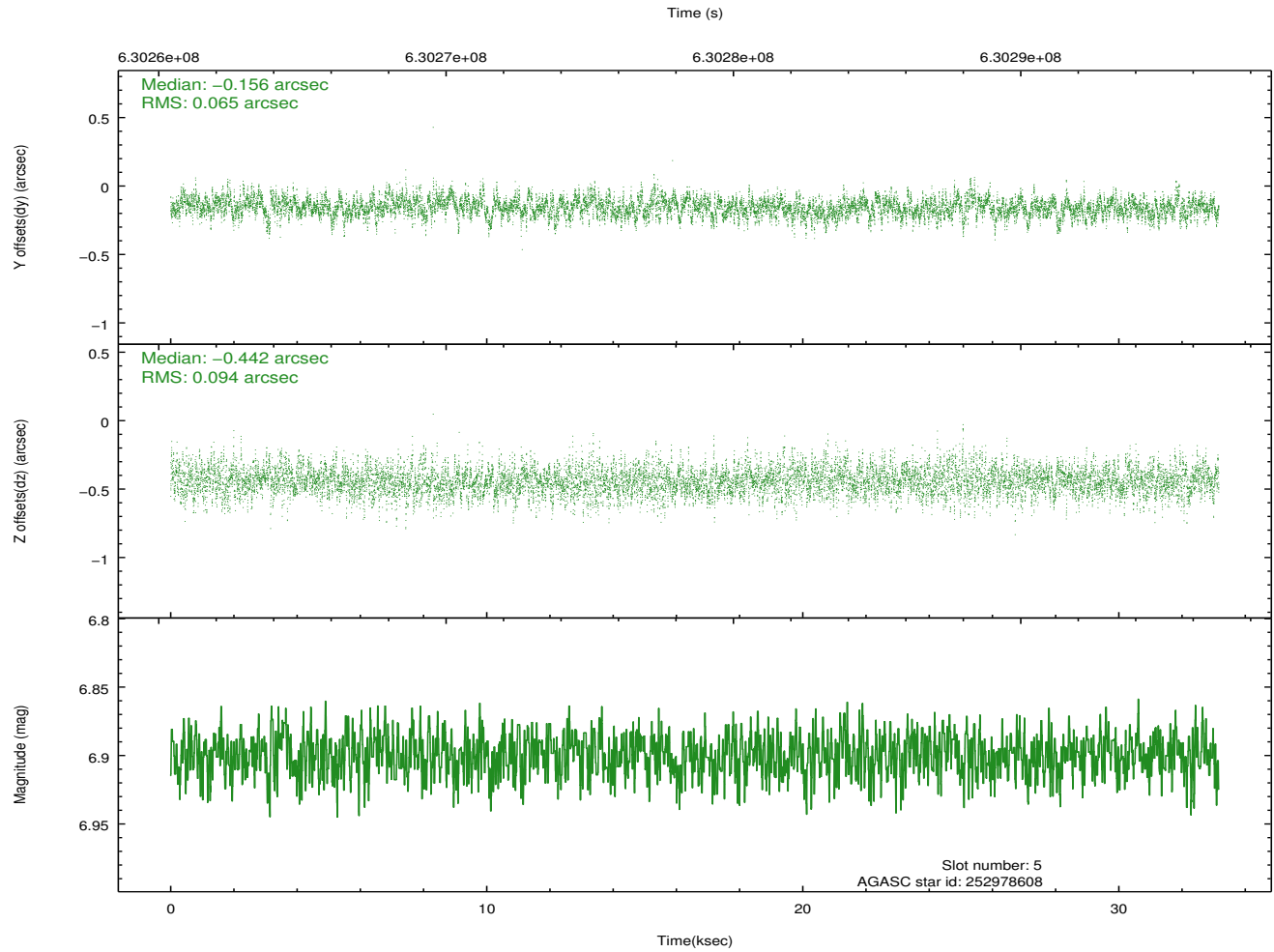
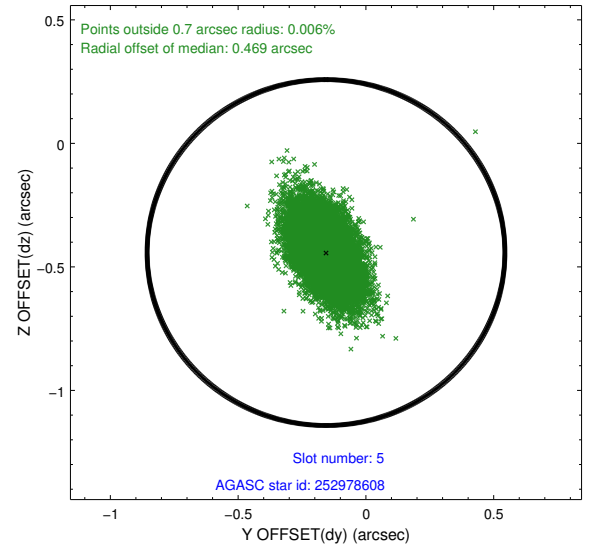
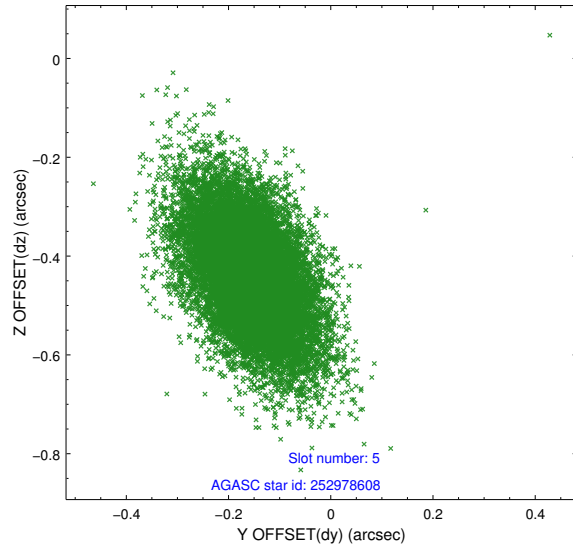
2.4.1 Slot 3



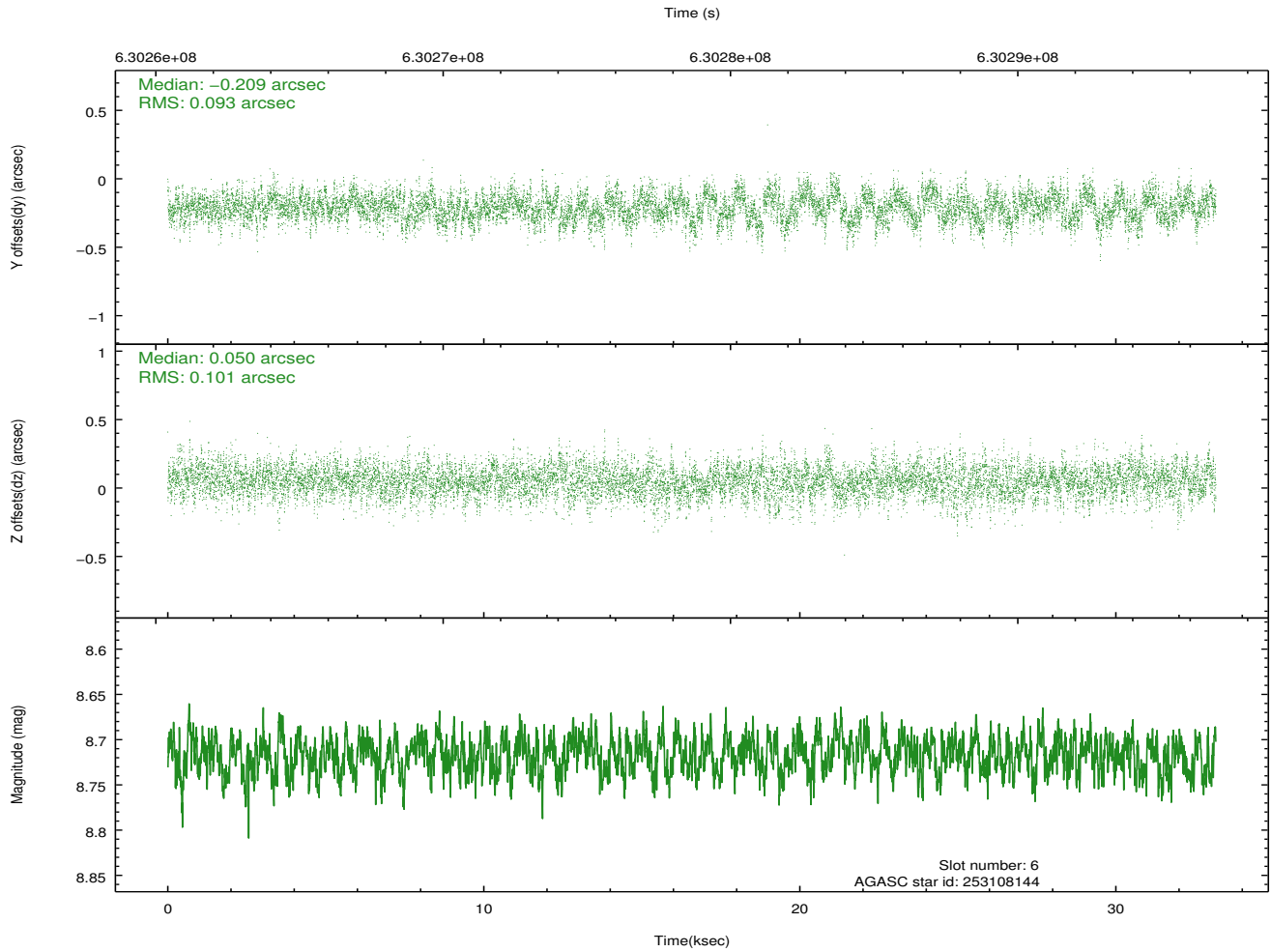
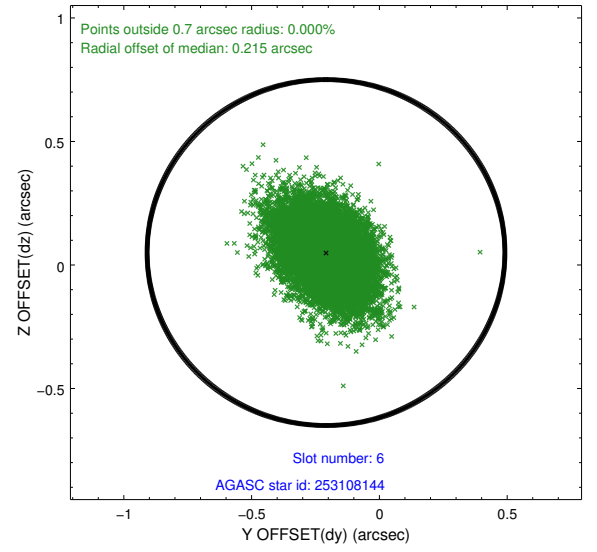
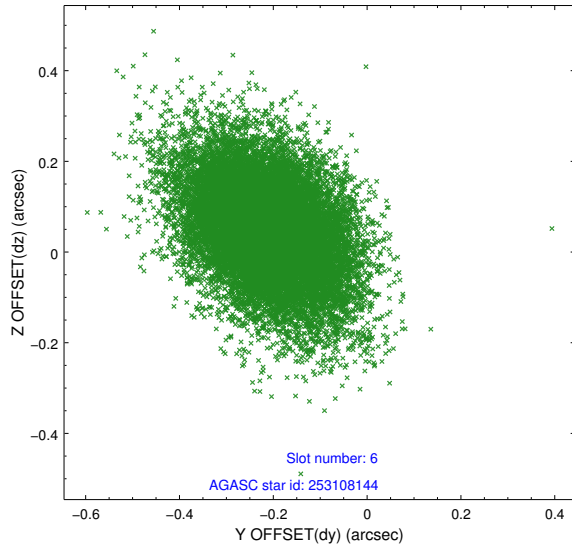
2.4.2 Slot 4



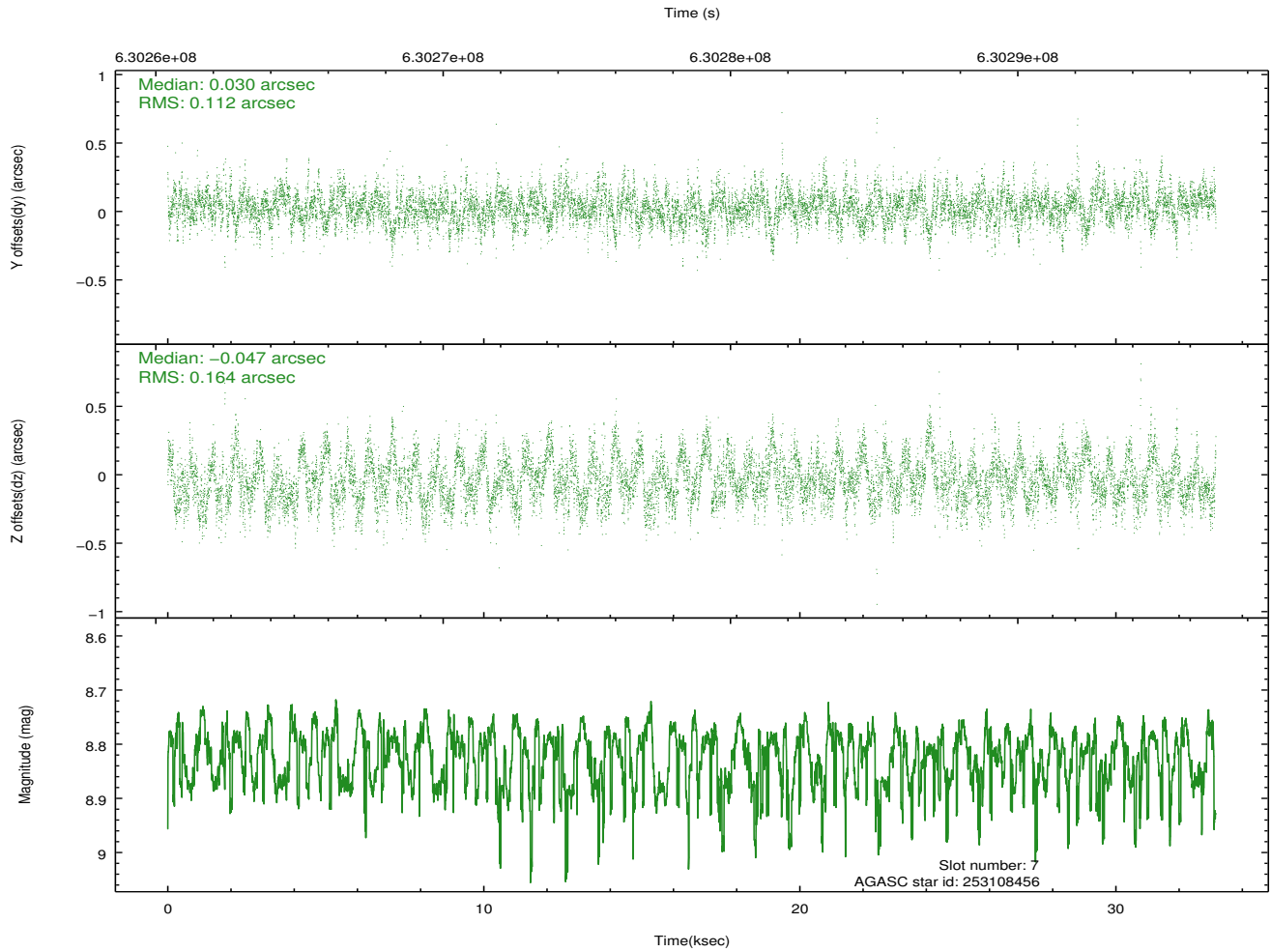
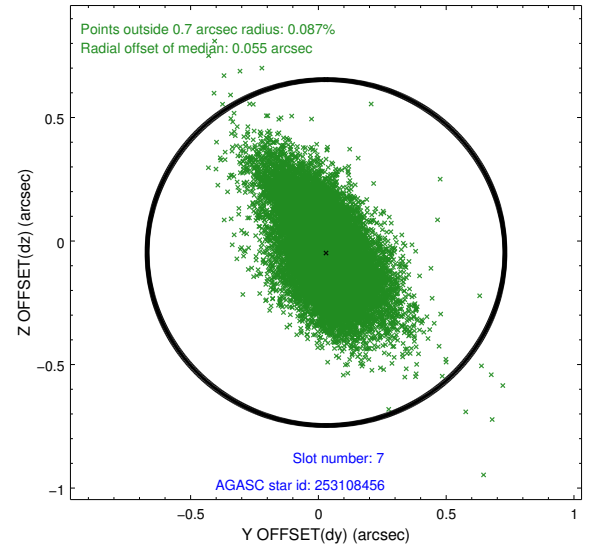
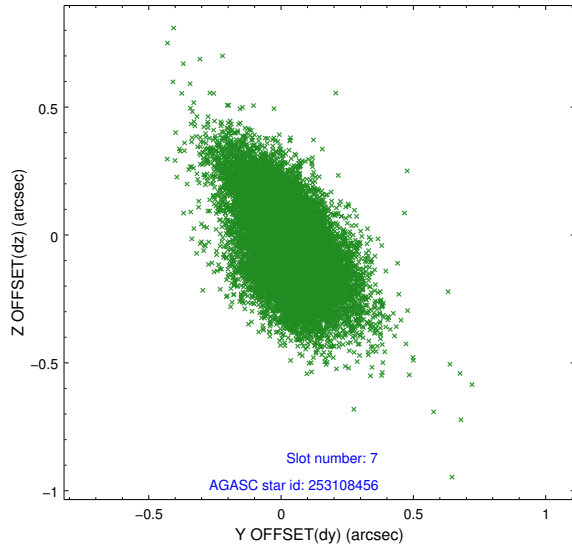
2.4.3 Slot 5



2.4.4 Slot 6

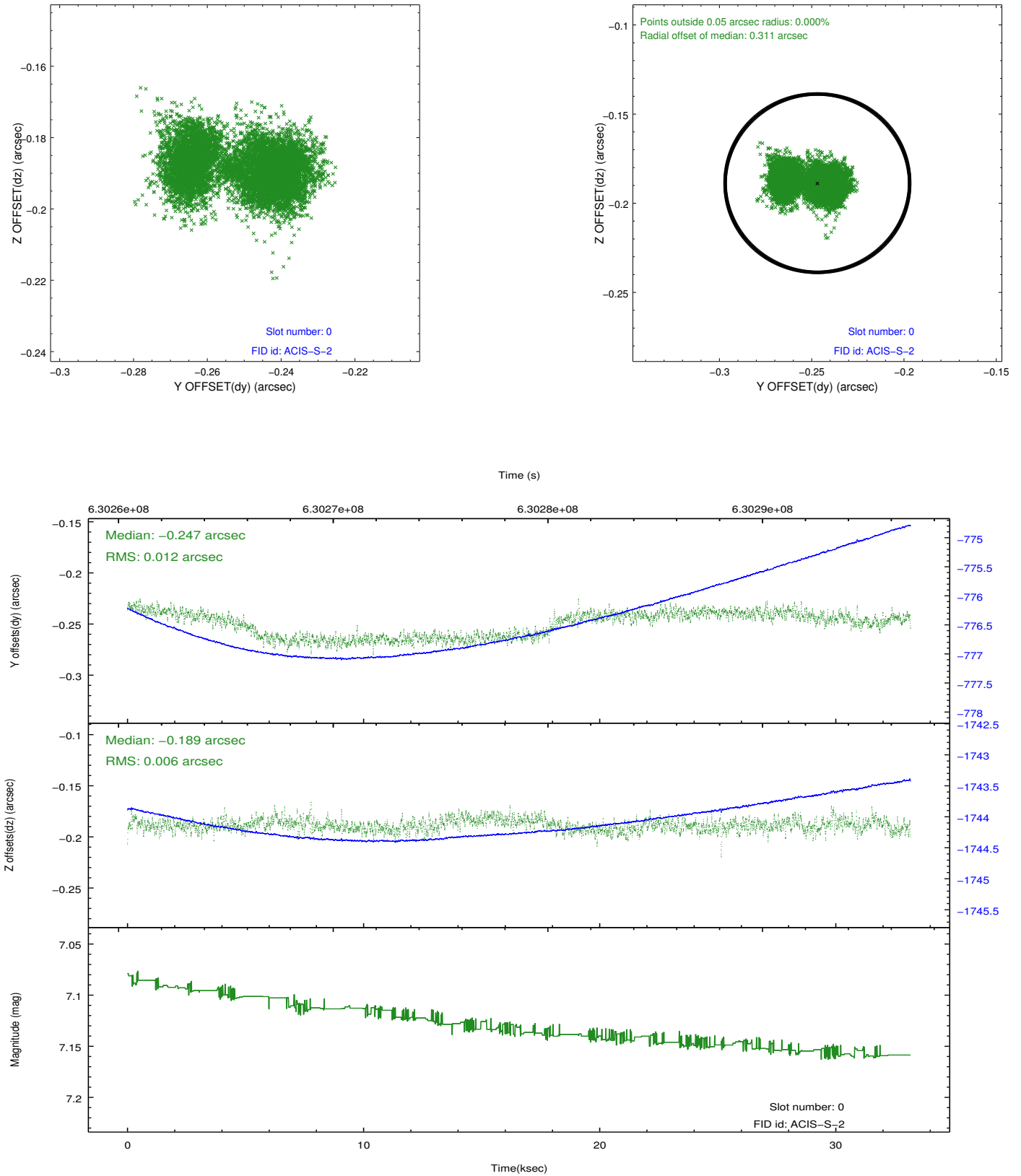


2.4.5 Slot 7

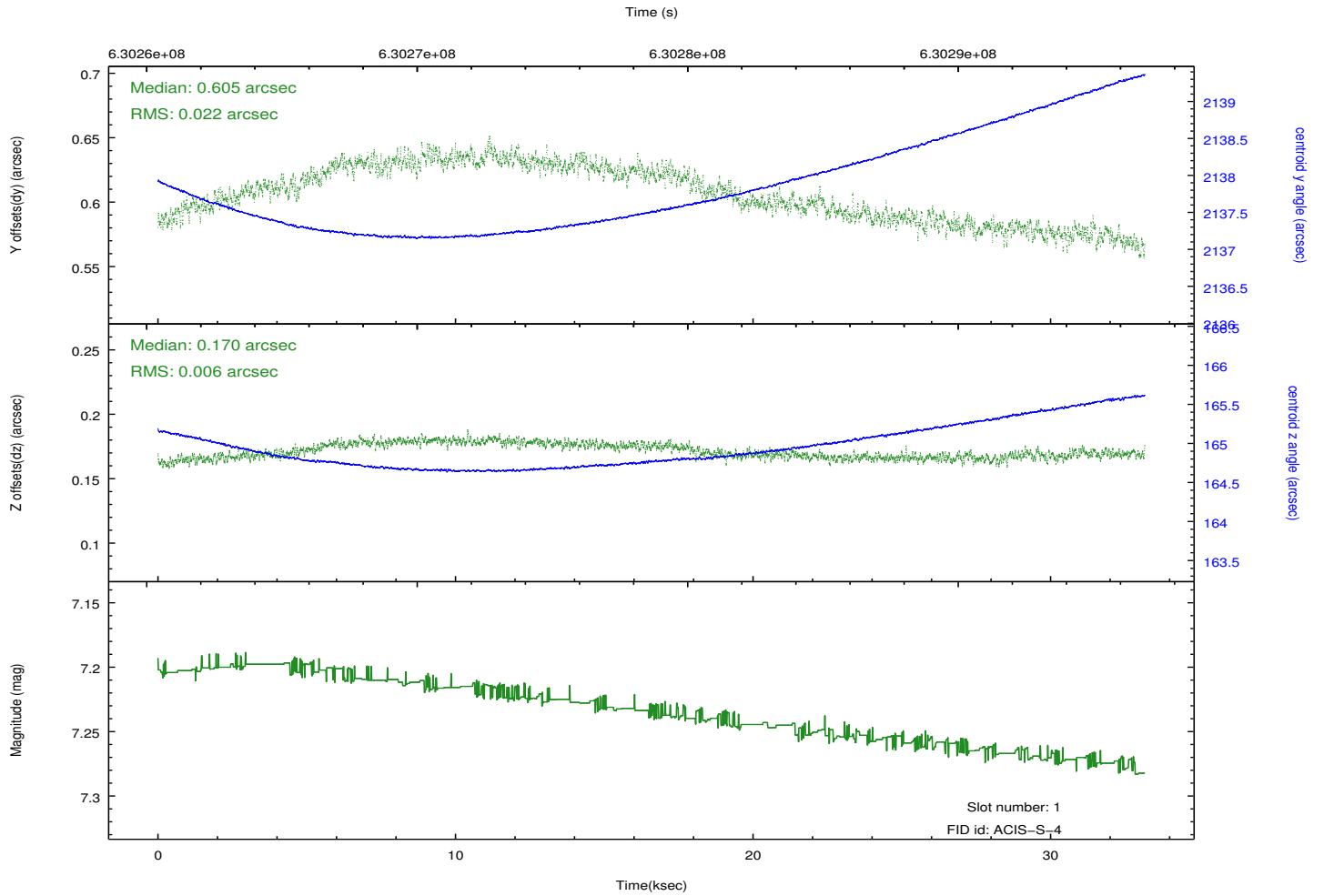
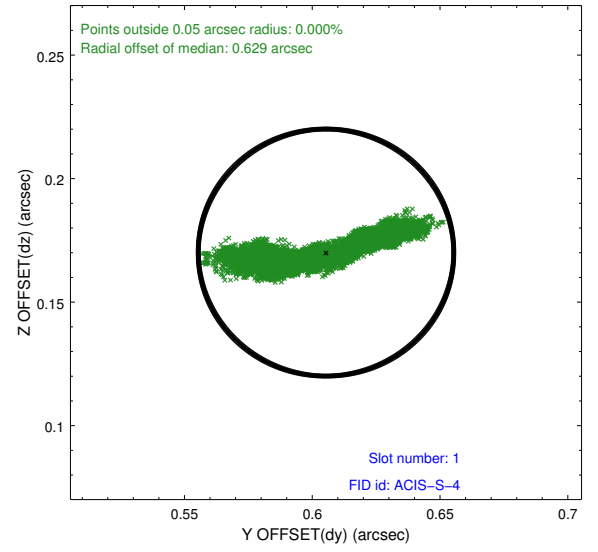
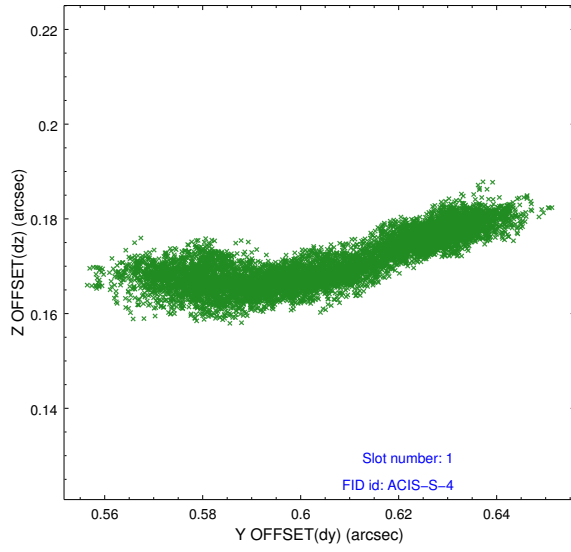


2.5 FID Slots

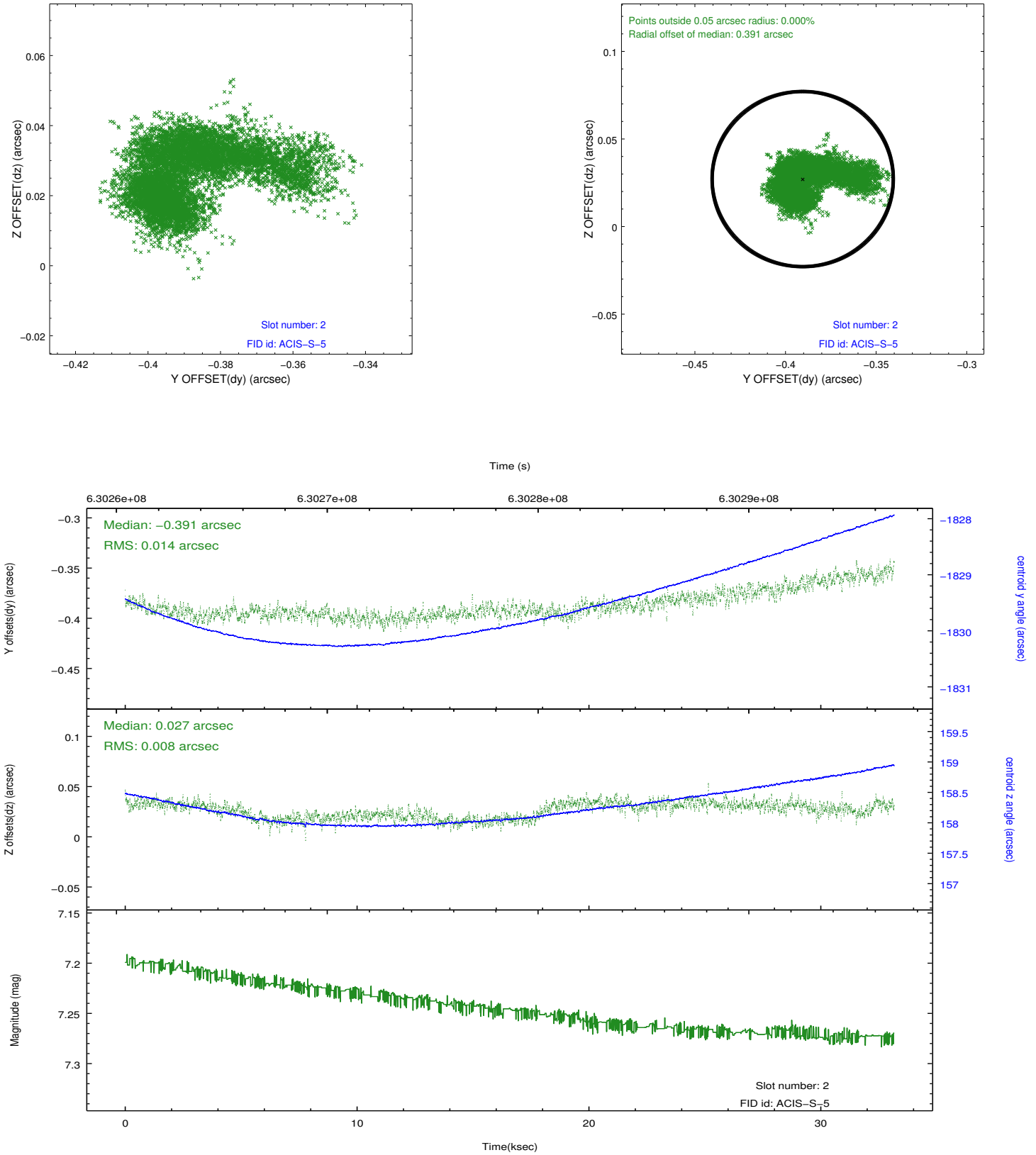
2.5.1 Slot 0



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)	2017.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.111100254774

A.2 Comments

Roll preference met. Optional chip I3 not included.