

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21722 - L2 Version 1
Chandra X-Ray Center

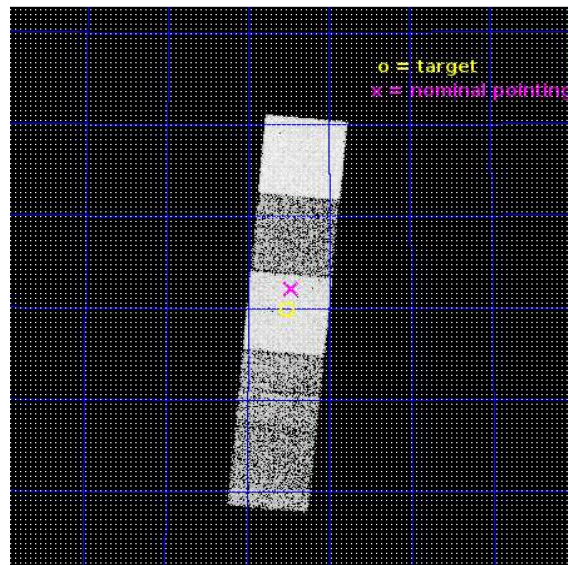
L2 Processing Date : Aug 27 2018

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1 Front

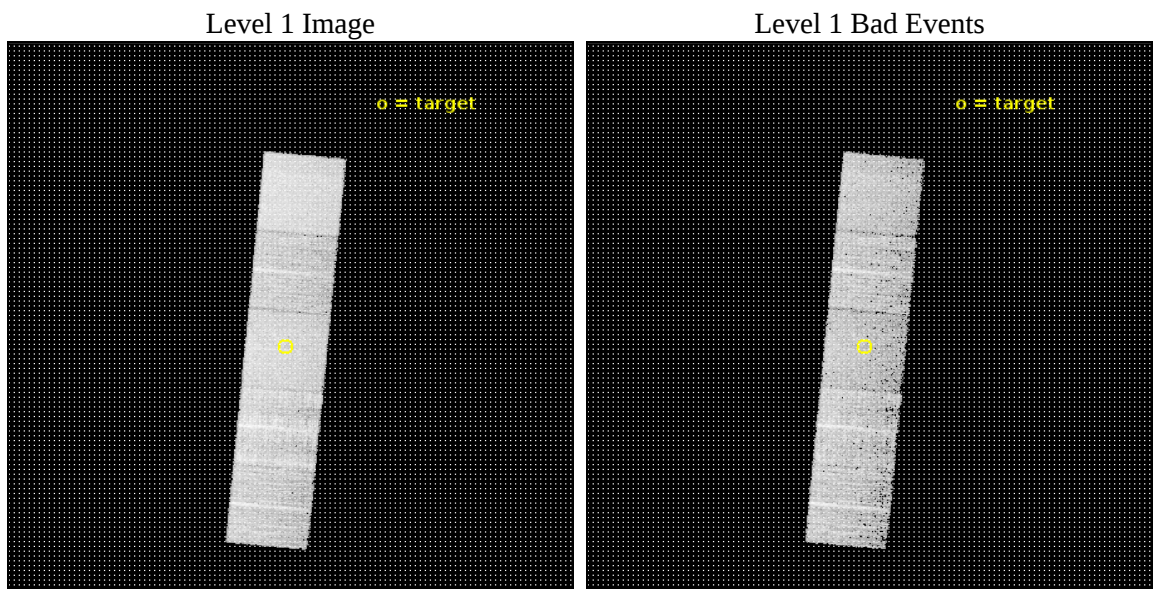
seq_num	100172	Sequence number
obs_id	21722	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	65.880612	Observer's specified target RA [deg]
dec_targ	55.331397	Observer's specified target Dec [deg]
ra_nom	65.866021978228	Nominal RA [deg]
dec_nom	55.368766286325	Nominal Dec [deg]
roll_nom	95.380392706105	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6178.300047636	Sum of GTIs [s]
livetime	6097.5760091153	Livetime [s]
ontime5	6178.300047636	Sum of GTIs [s]
ontime6	6178.300047636	Sum of GTIs [s]
ontime7	6178.300047636	Sum of GTIs [s]
ontime8	6178.300047636	Sum of GTIs [s]
ontime9	6178.300047636	Sum of GTIs [s]
l2events	75332	Number of level 2 events



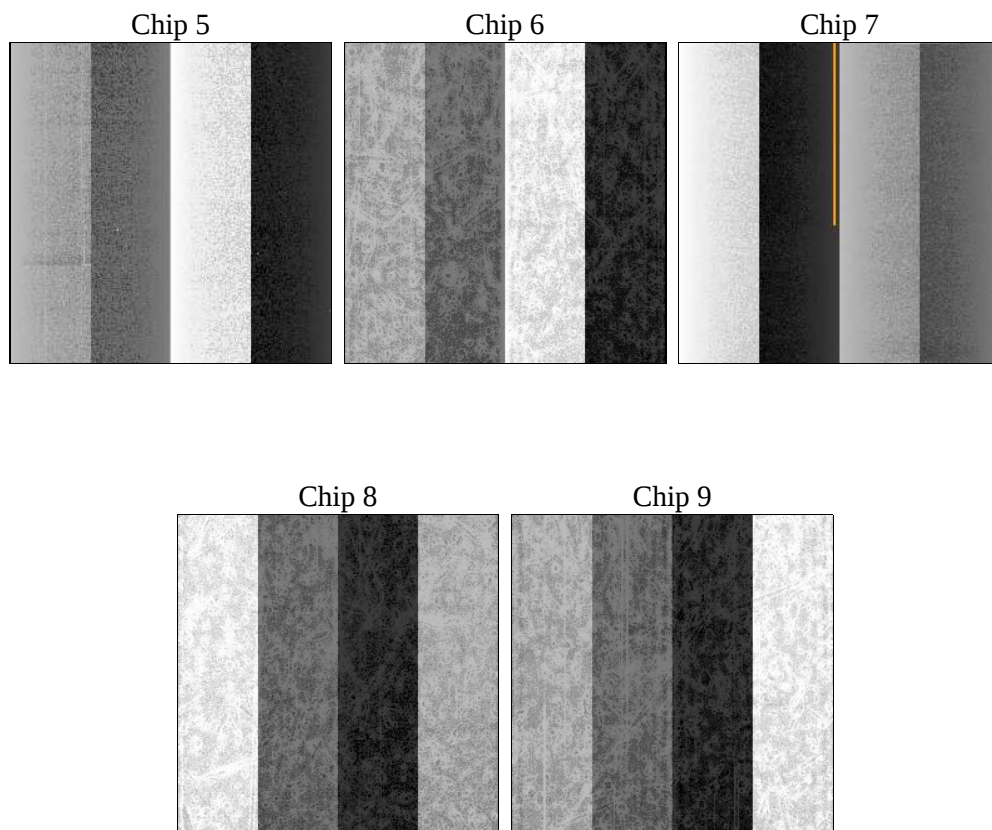
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	6178.300047636	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	6178.300047636	Sum of GTIs [s]
date	2018-08-27T05:22:45	Date and time of file creation	ontime6	6178.300047636	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	6178.300047636	Sum of GTIs [s]
			ontime8	6178.300047636	Sum of GTIs [s]
			ontime9	6178.300047636	Sum of GTIs [s]
			l1events	303170	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	75903	48398	63803	65674	49392
rejected events	41510	43000	37049	48139	43706
rejected %	54%	88%	58%	73%	88%

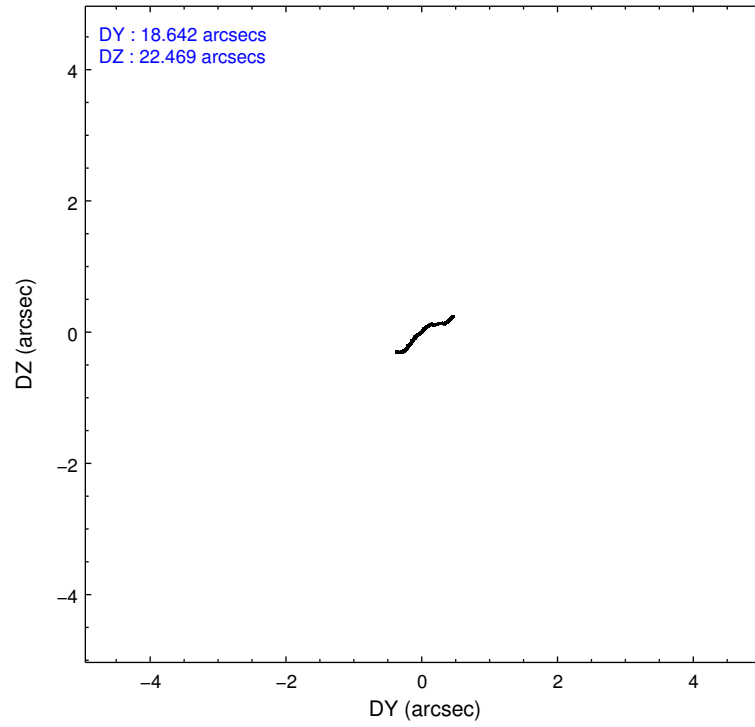
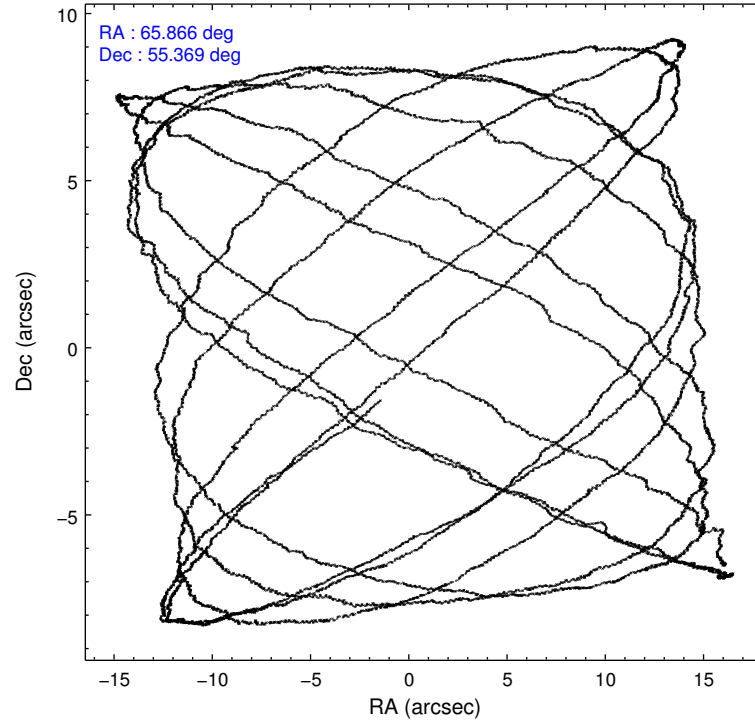
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2067	1977	2842	5235	2142
	2%	4%	4%	7%	4%
grade 1 events	157	33	107	55	39
	0%	0%	0%	0%	0%
grade 2 events	11753	1339	5975	4523	1344
	15%	2%	9%	6%	2%
grade 3 events	1245	549	2197	2000	605
	1%	1%	3%	3%	1%
grade 4 events	1156	539	2225	1869	576
	1%	1%	3%	2%	1%
grade 5 events	5528	2353	6365	3466	2605
	7%	4%	9%	5%	5%
grade 6 events	20139	1299	14980	4949	1333
	26%	2%	23%	7%	2%
grade 7 events	33858	40309	29112	43577	40748
	44%	83%	45%	66%	82%

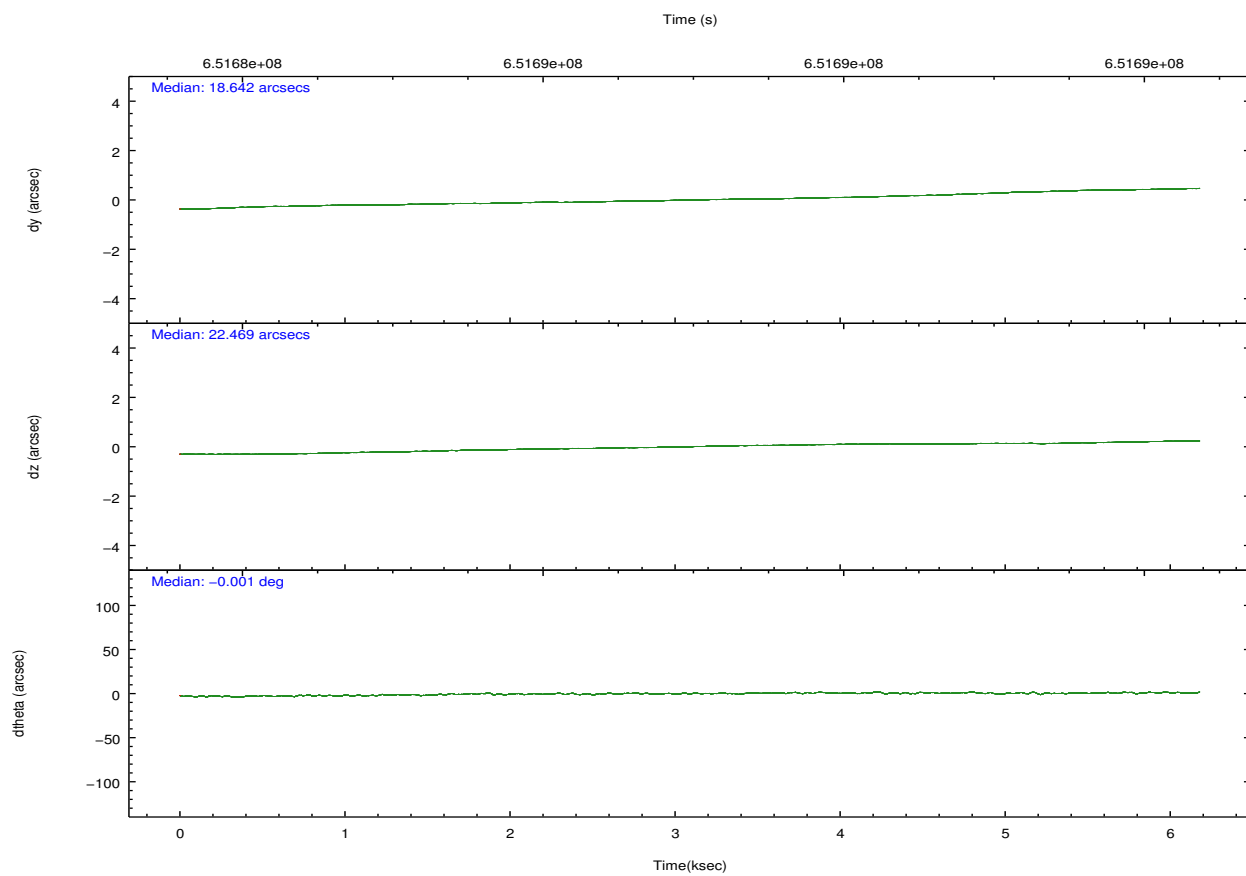
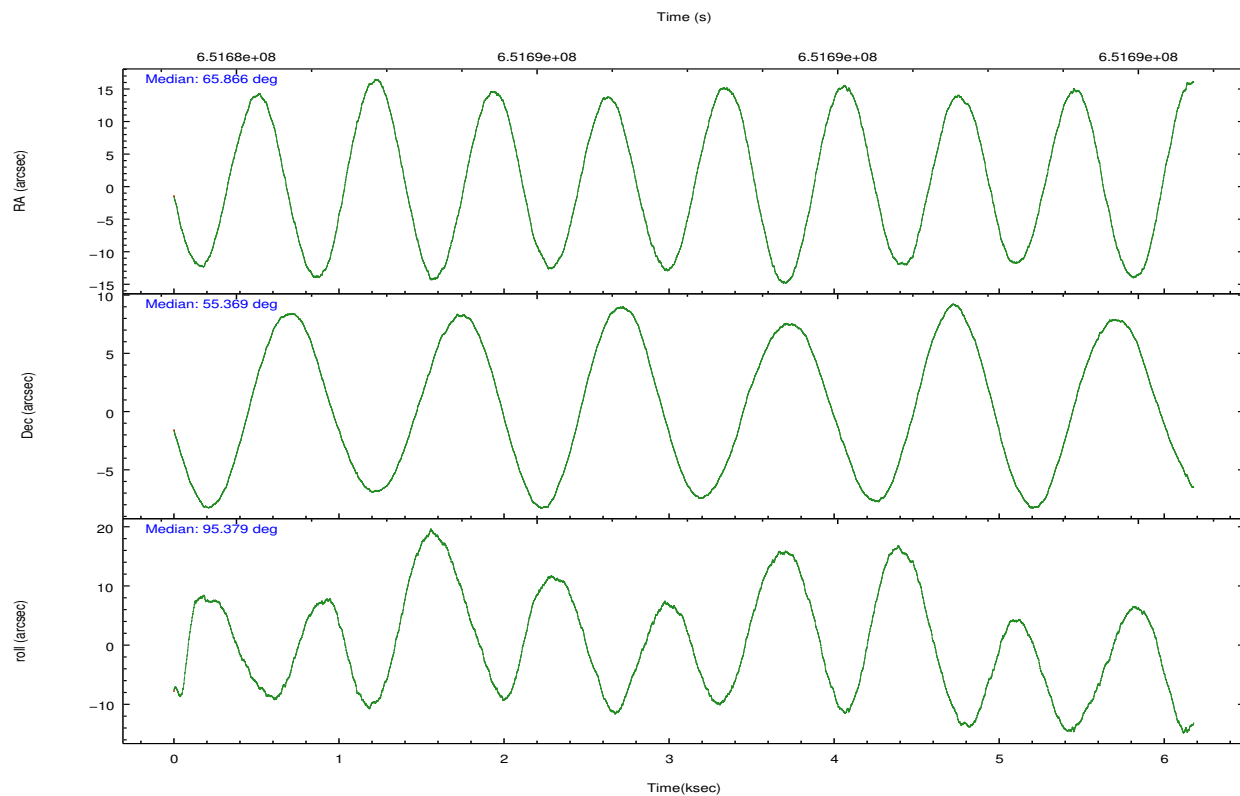
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	65.894552	65.86602197822759
[deg] Pointing Dec	55.346644	55.36876628632497
[deg] Pointing Roll	95.200299	95.38039270610486
[s] Window start time (MET)	651196869.184000	651196869.184000
[s] Window stop time (MET)	655776069.184000	655776069.184000
[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)	651684066.184000	651683690.45242
Observation start date	2018-08-26T15:19:57	2018-08-26T15:14:50
[s] Observation end time (MET)	651690066.184000	651690200.7403001
Observation end date	2018-08-26T16:59:57	2018-08-26T17:03:20
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	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



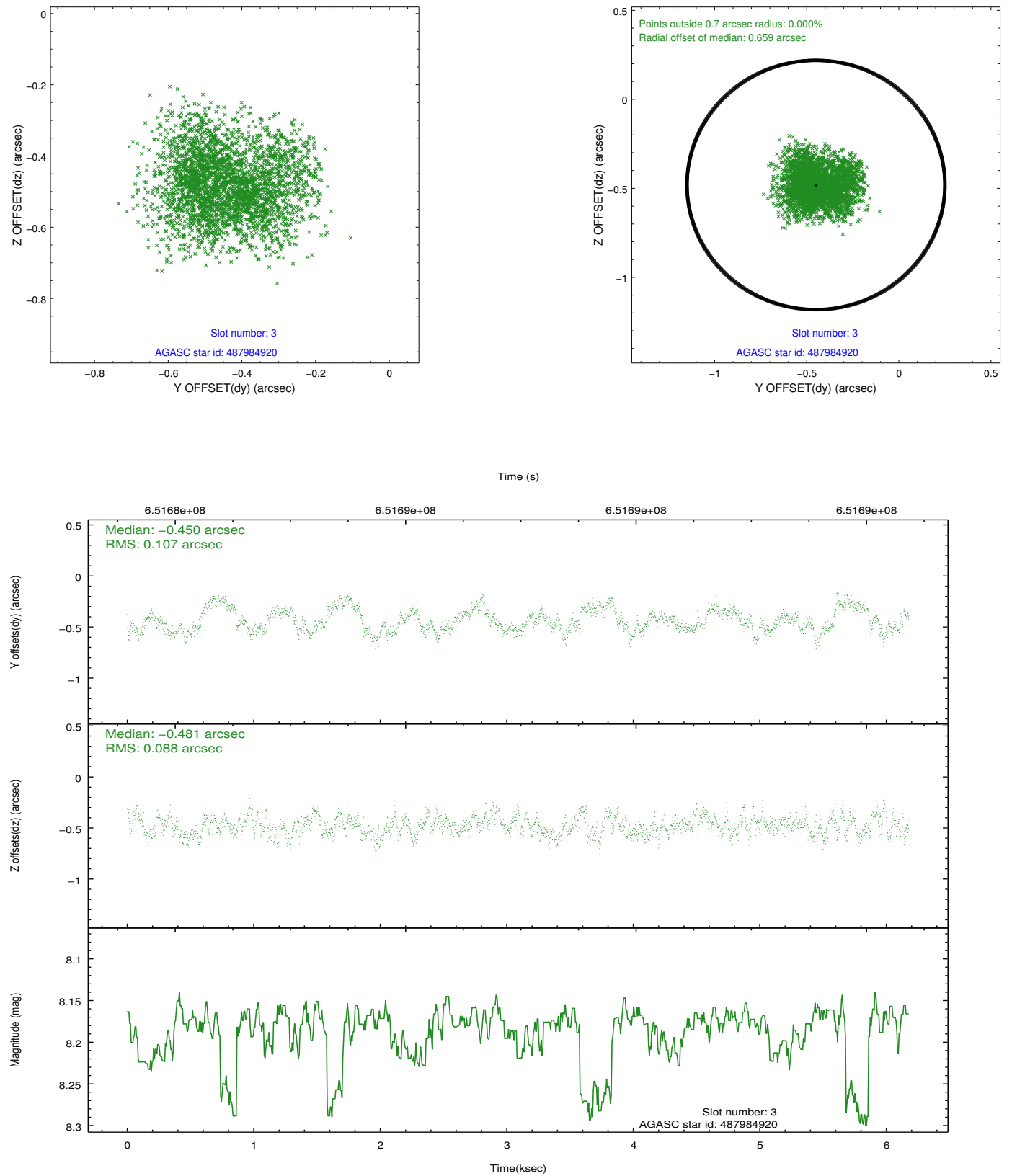


Slot Statistics

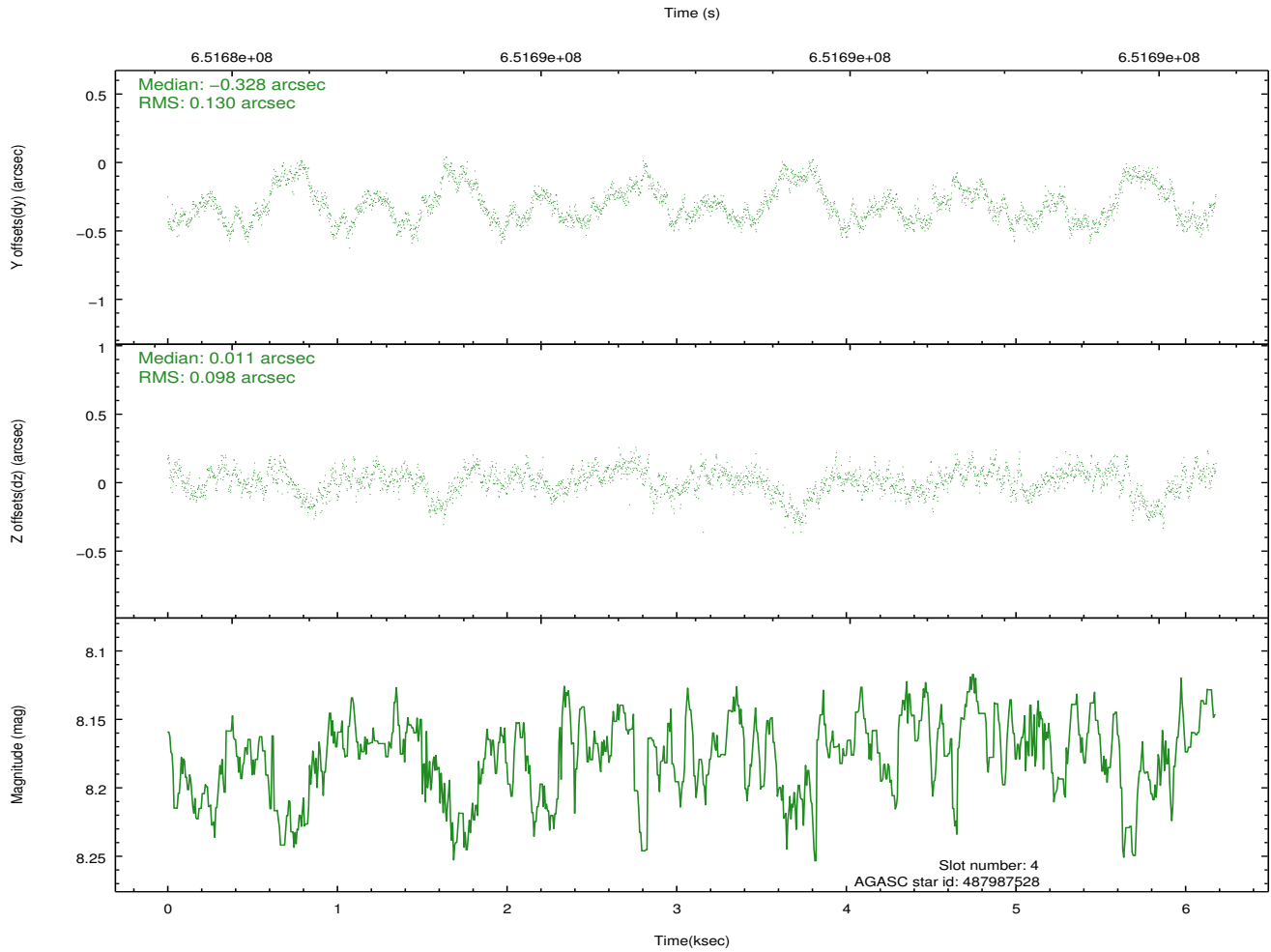
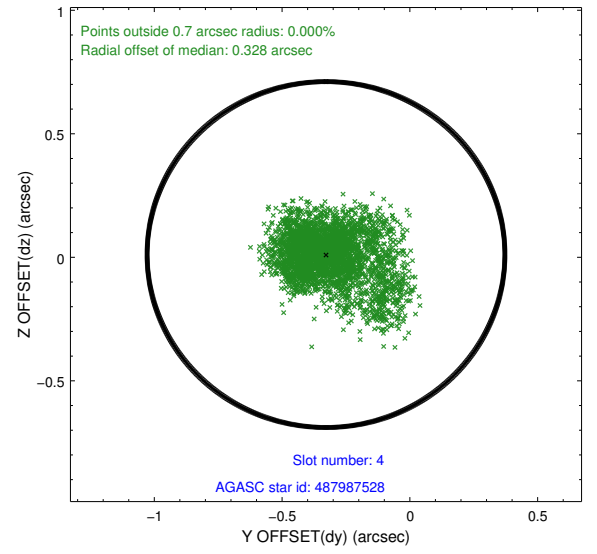
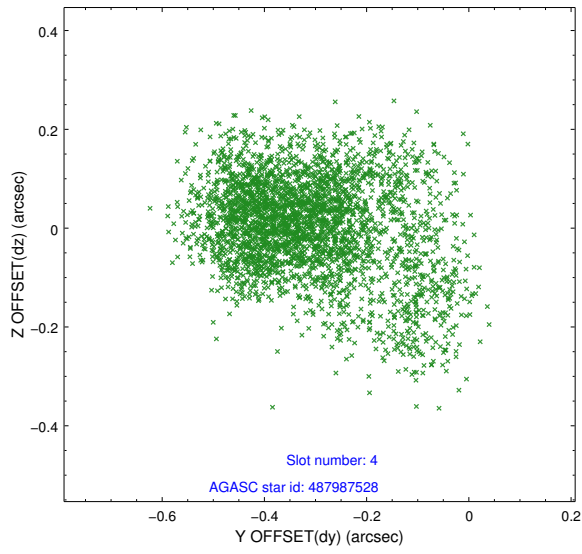
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	1507	1.000	-0.023	-0.121	0.008	0.013	0.000000	0.000000	-771.85	-1744
1	FID		ACIS-S-5	7.10	1507	1.000	-0.211	-0.006	0.006	0.011	0.000000	0.000000	-1825.49	157
2	FID		ACIS-S-6	7.25	1508	1.000	0.208	0.135	0.007	0.012	0.000000	0.000000	389.08	802
3	GUIDE	used	487984920	8.18	3015	1.000	-0.450	-0.481	0.151	0.236	65.279802	55.505250	687.69	1195
4	GUIDE	used	487987528	8.18	3014	1.000	-0.328	0.011	0.164	0.305	66.082375	55.991093	2276.84	-586
5	GUIDE	used	487987840	9.57	3011	1.000	0.627	0.424	0.198	0.353	66.389470	54.818703	-1980.72	-850
6	GUIDE	used	487984224	9.71	3008	1.000	-0.552	-0.489	0.221	0.375	64.781559	55.554586	968.15	2186
7	GUIDE	used	487986832	9.58	3009	1.000	0.688	0.554	0.186	0.297	66.608481	54.720606	-2370.04	-1273

2.4 Star Slots

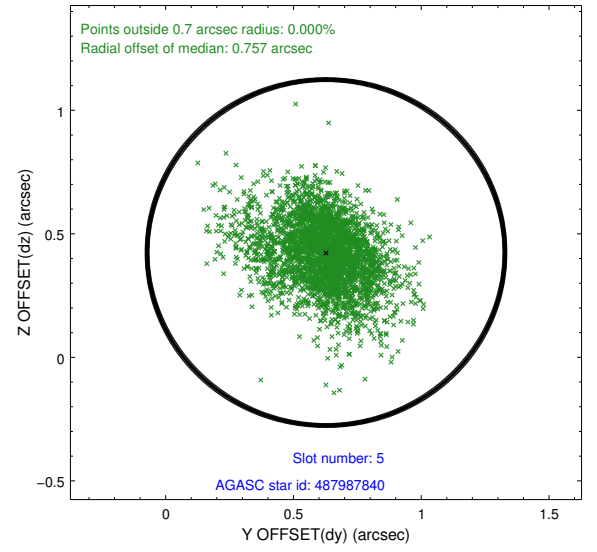
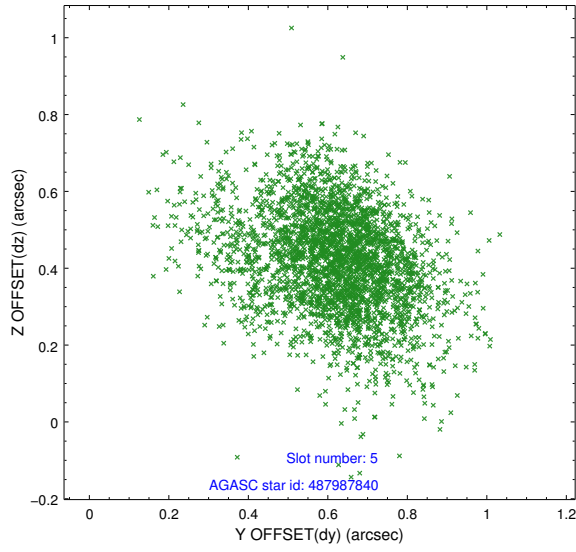
2.4.1 Slot 3



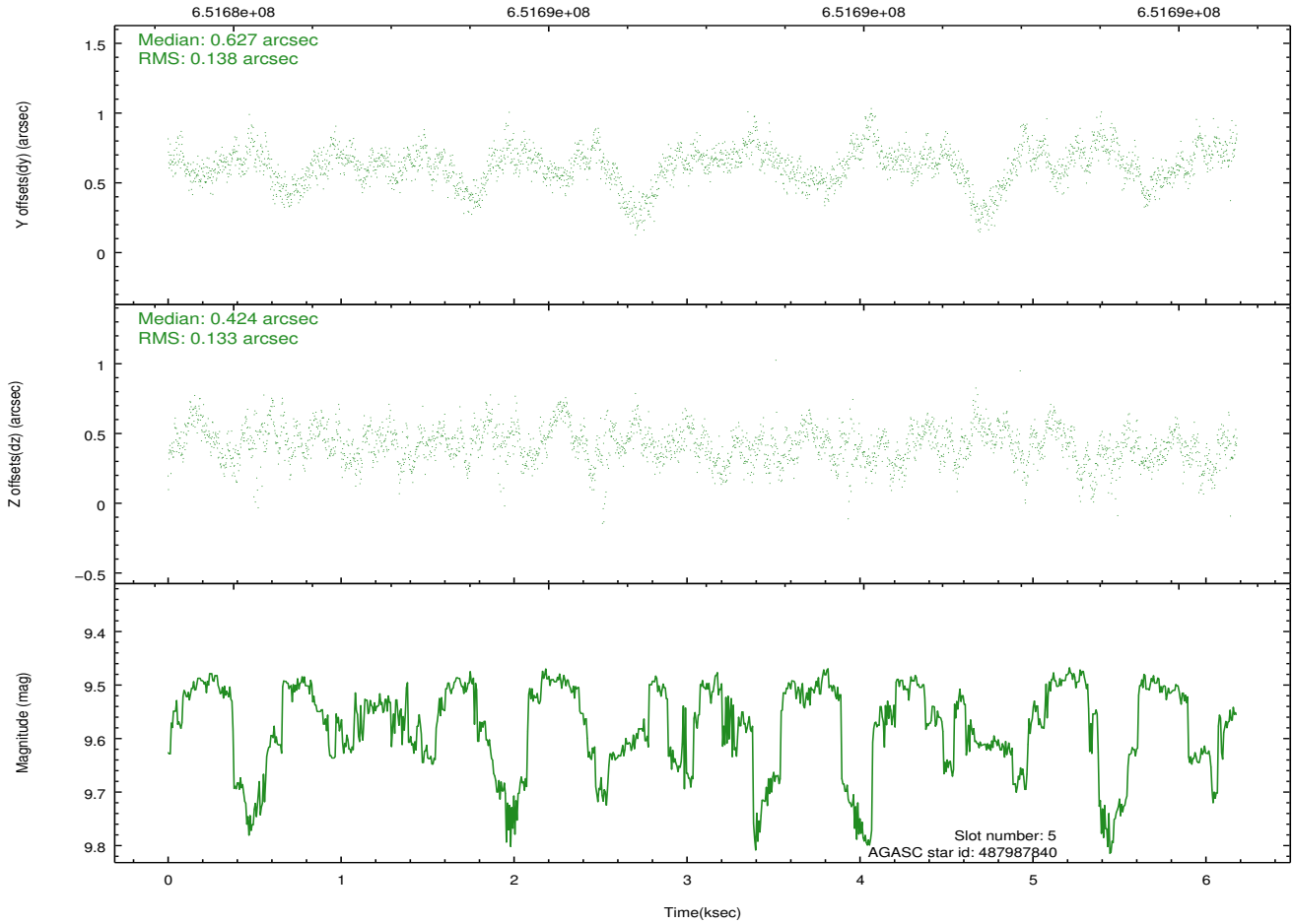
2.4.2 Slot 4



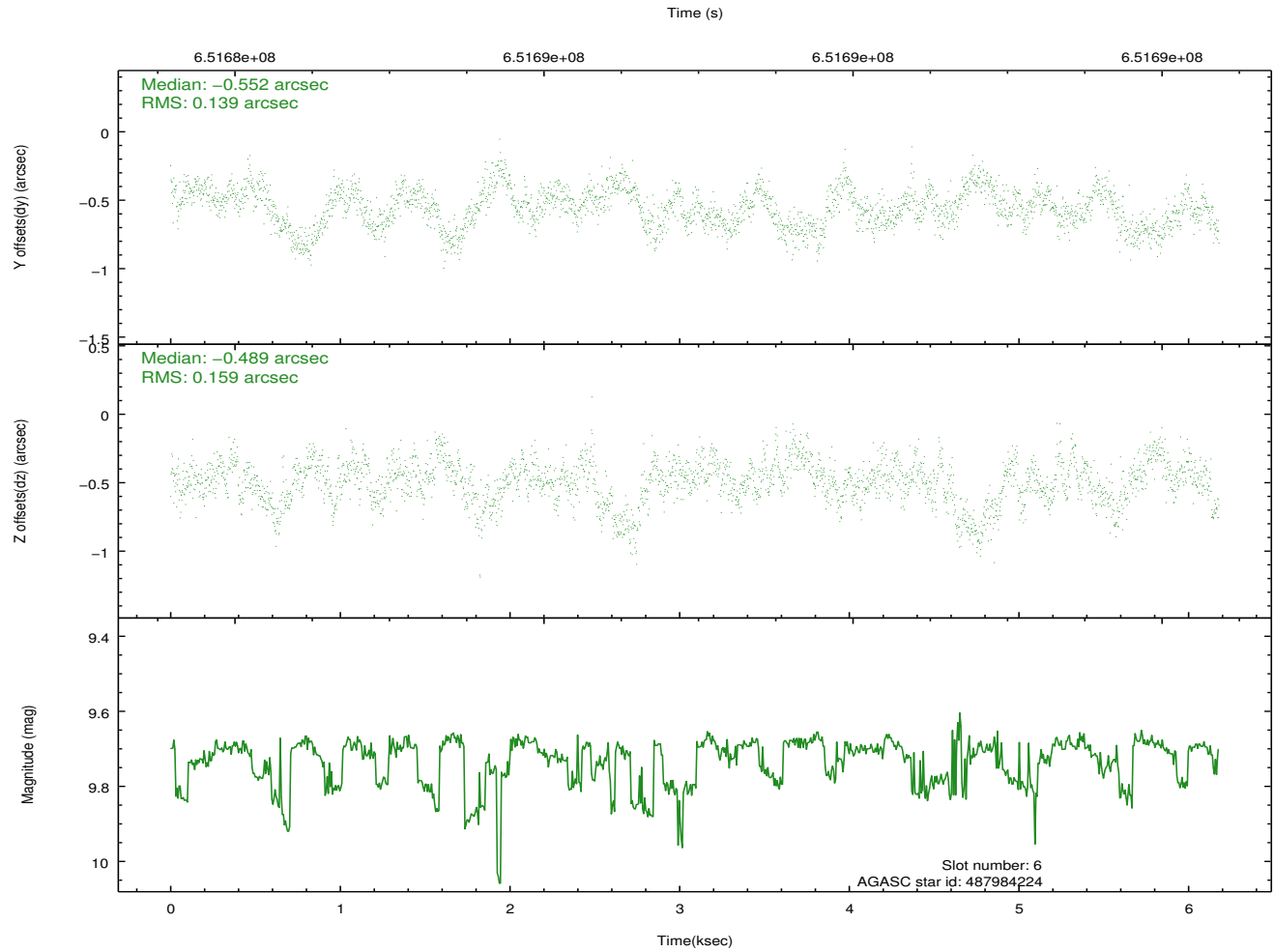
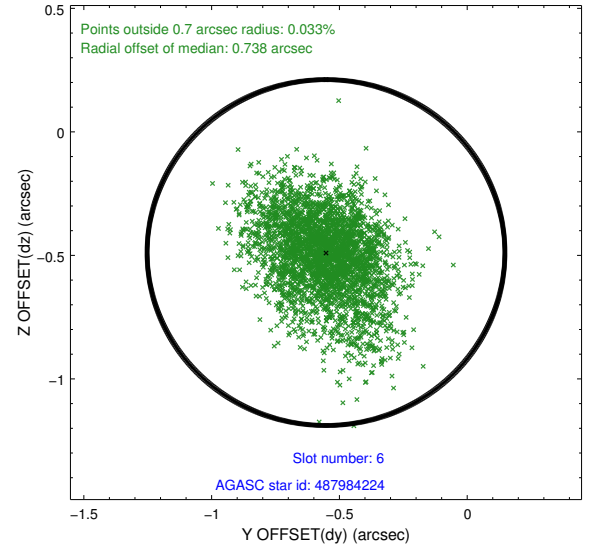
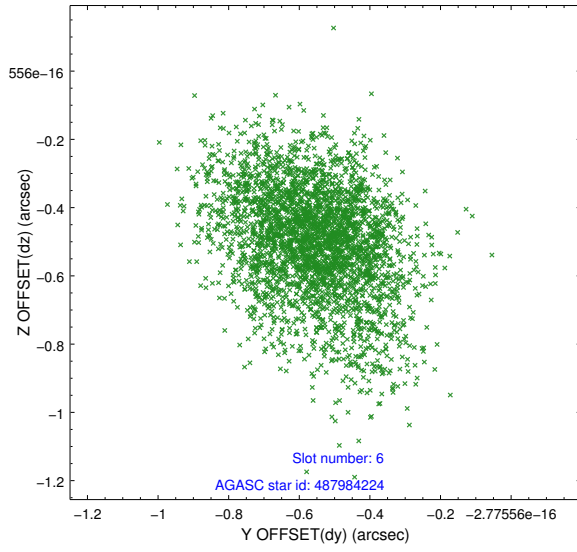
2.4.3 Slot 5



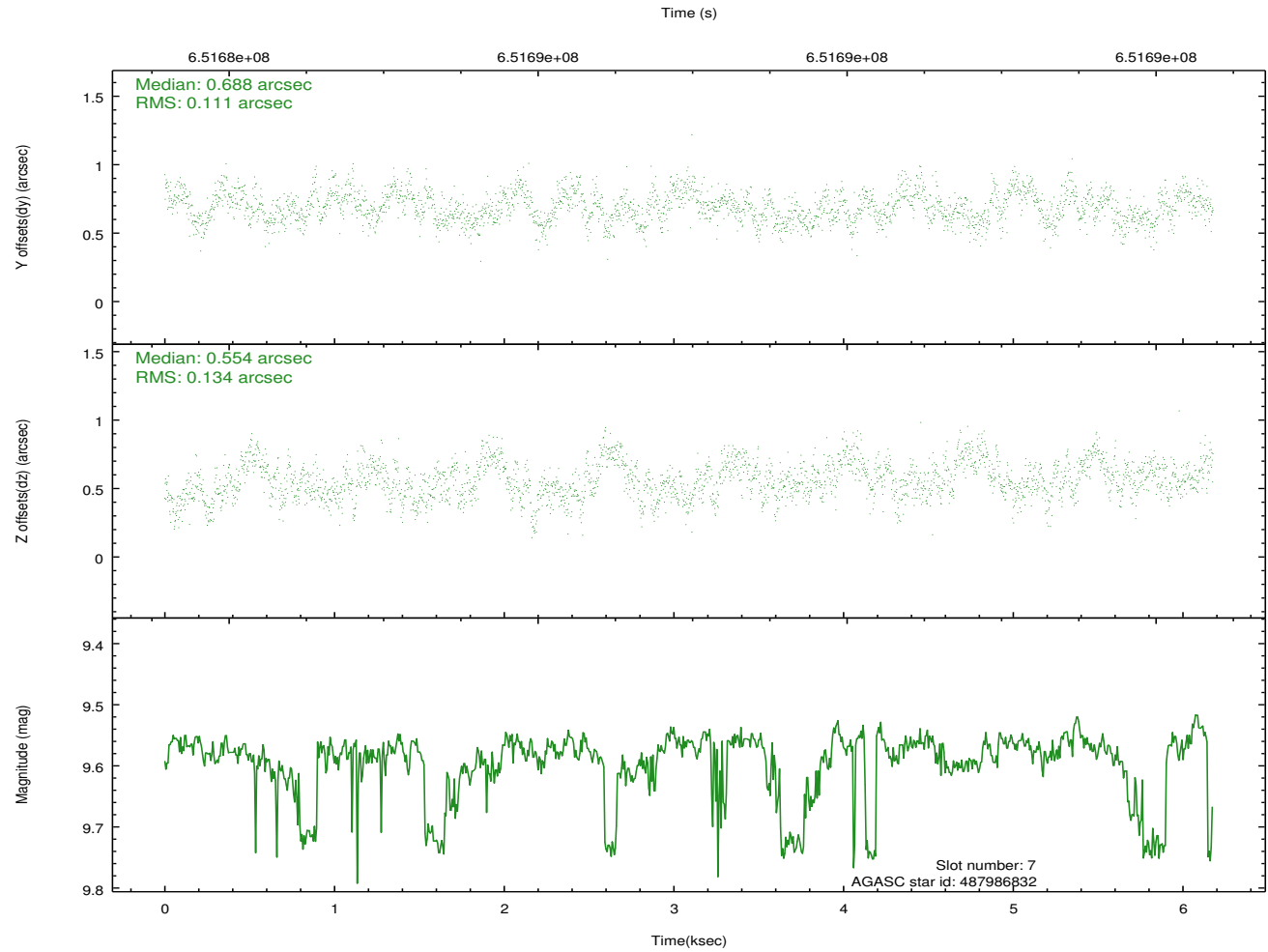
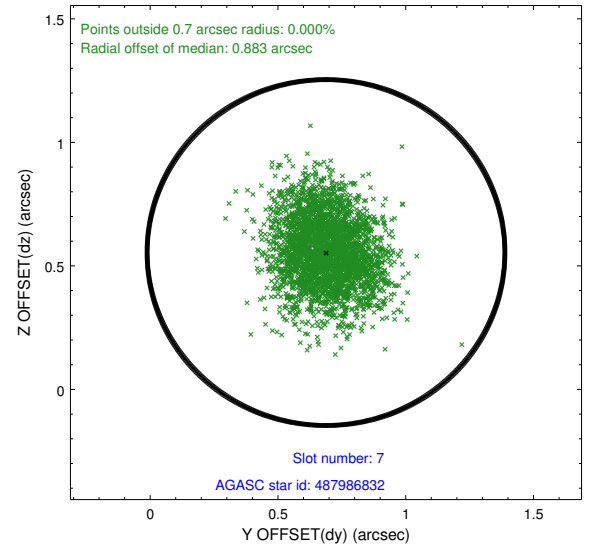
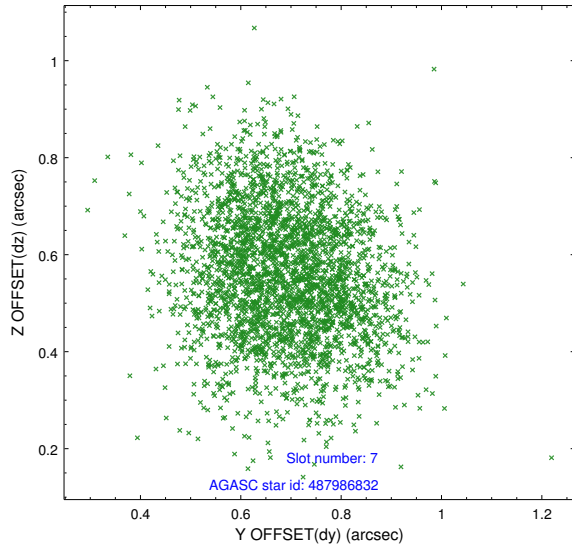
Time (s)



2.4.4 Slot 6

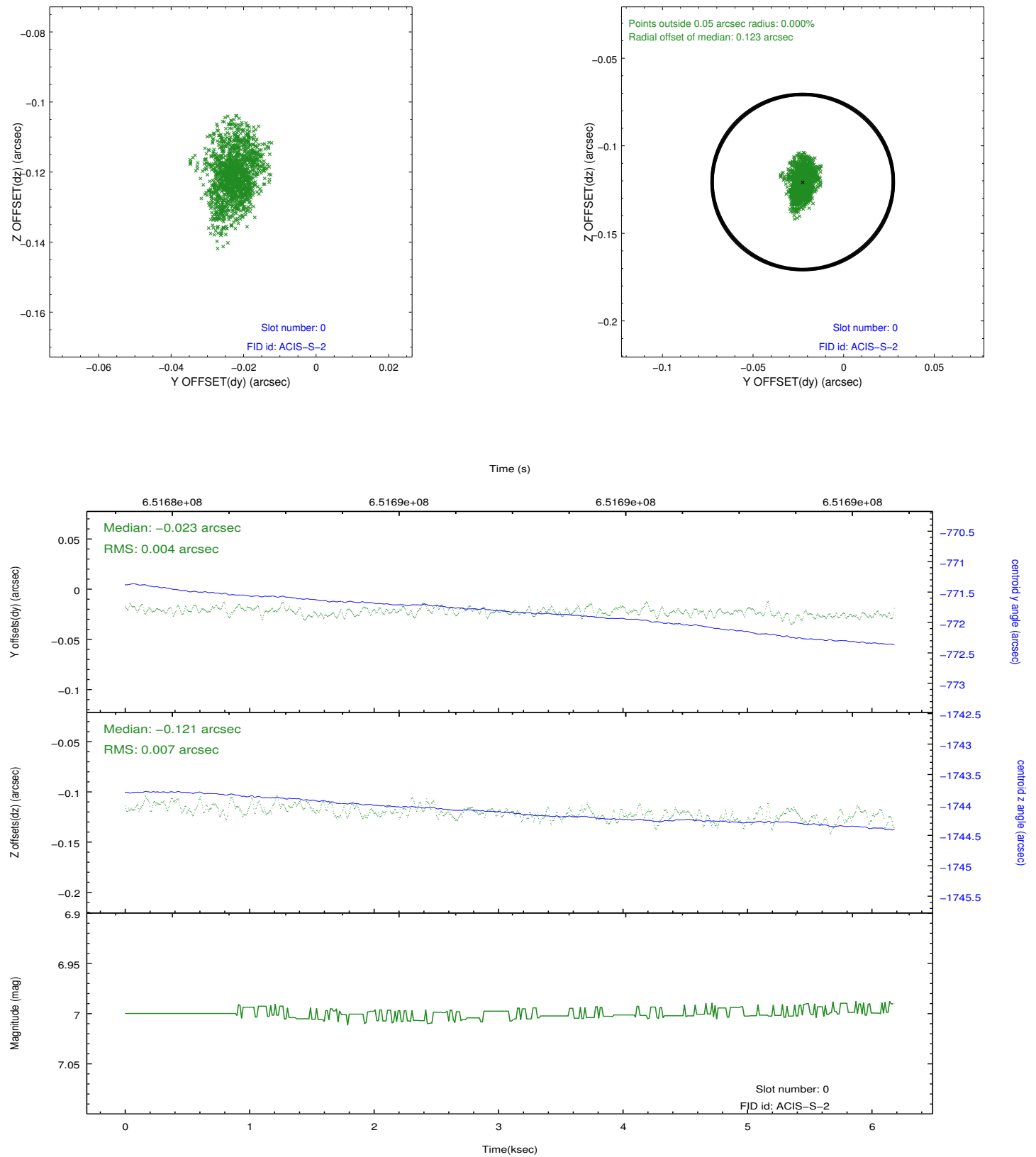


2.4.5 Slot 7

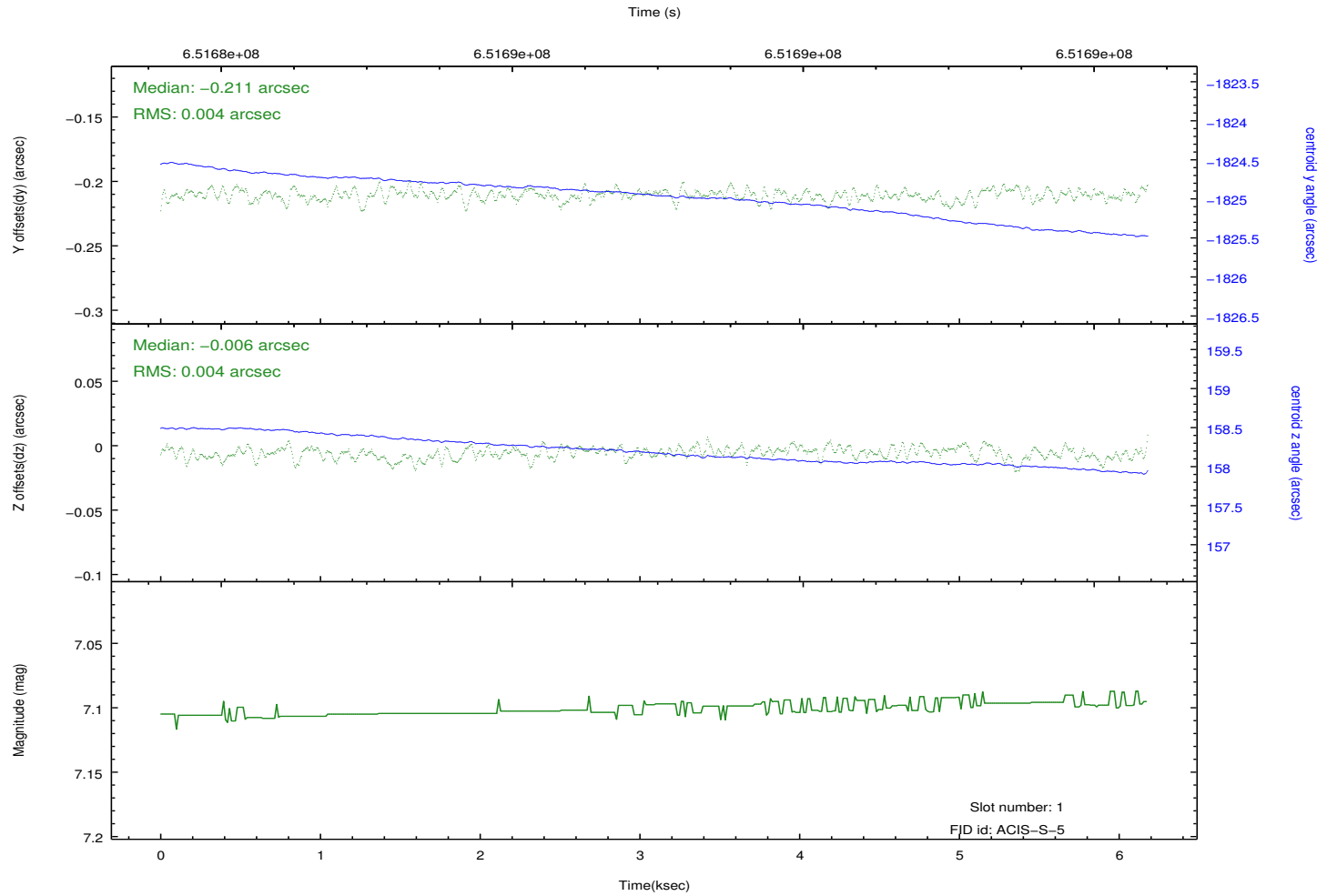
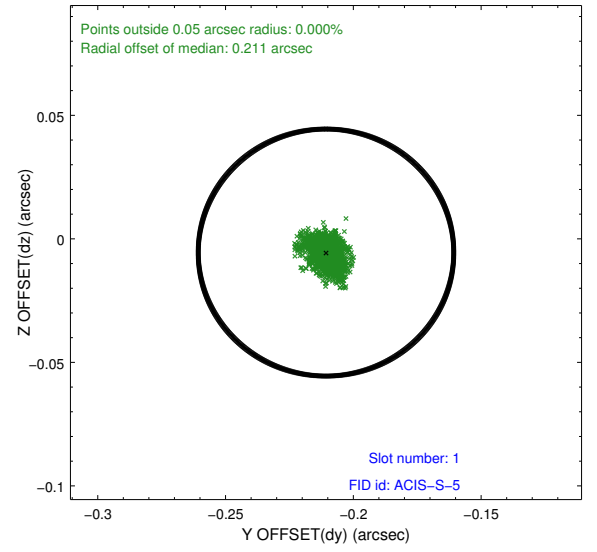
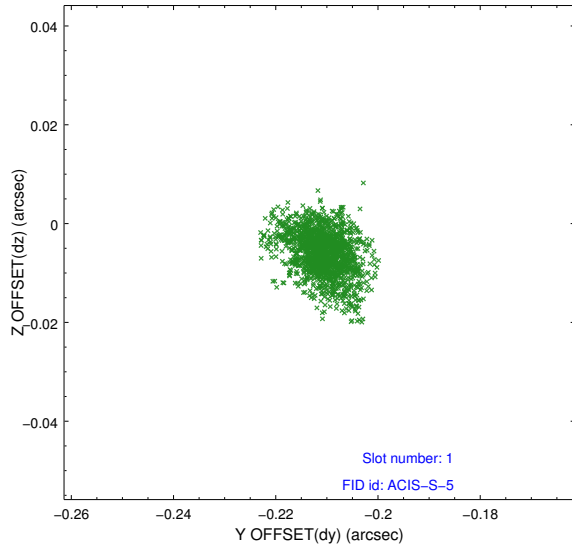


2.5 FID Slots

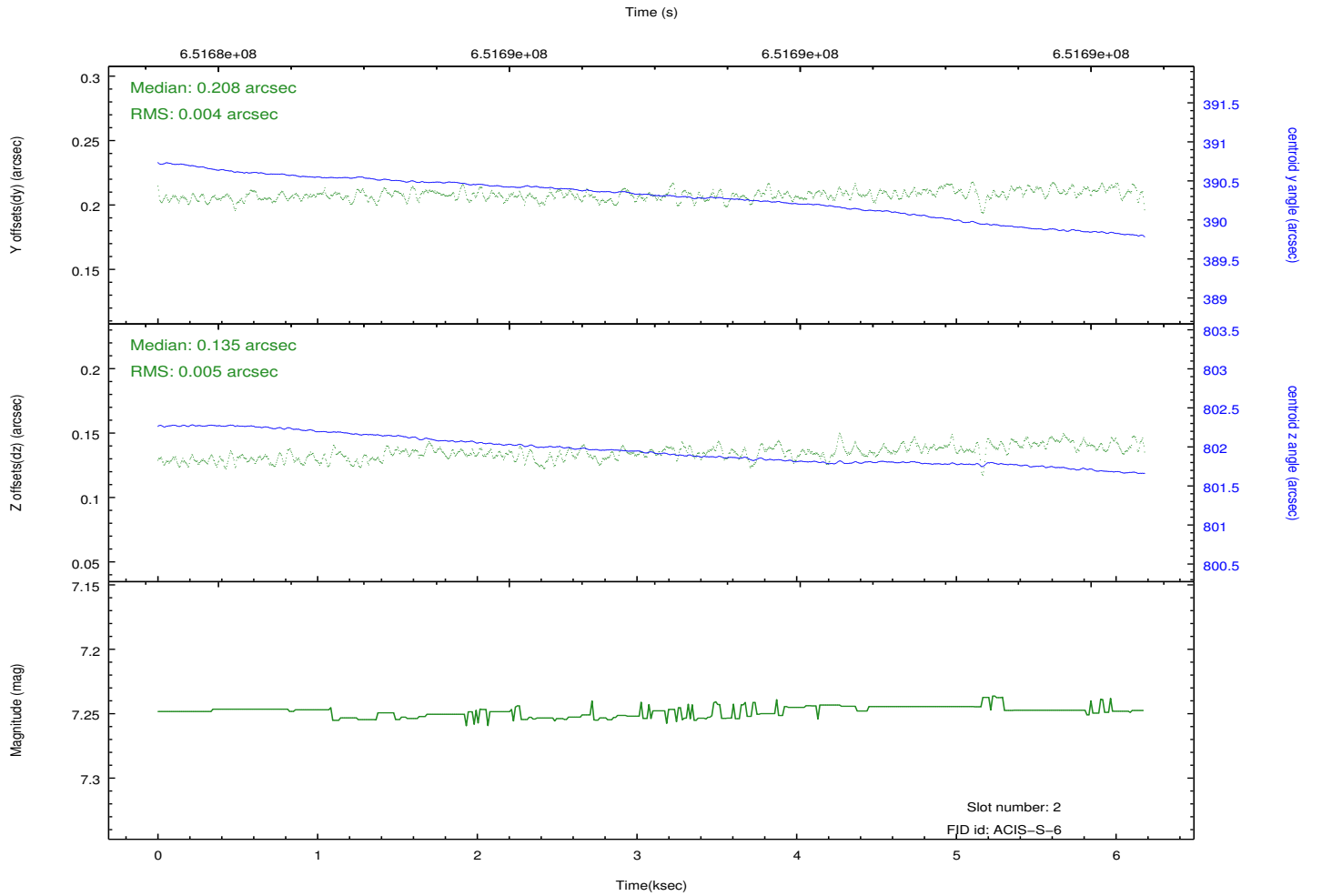
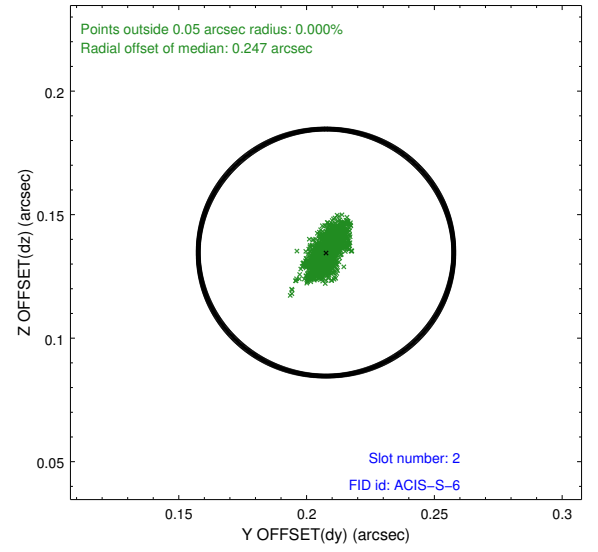
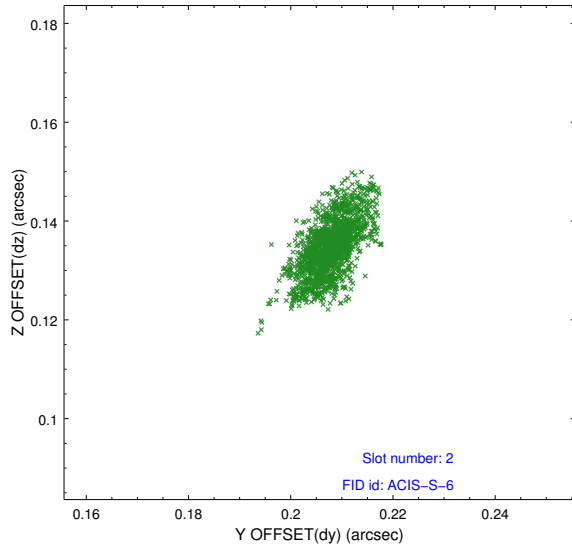
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.178300047636

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.