

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21471 - L2 Version 1
Chandra X-Ray Center

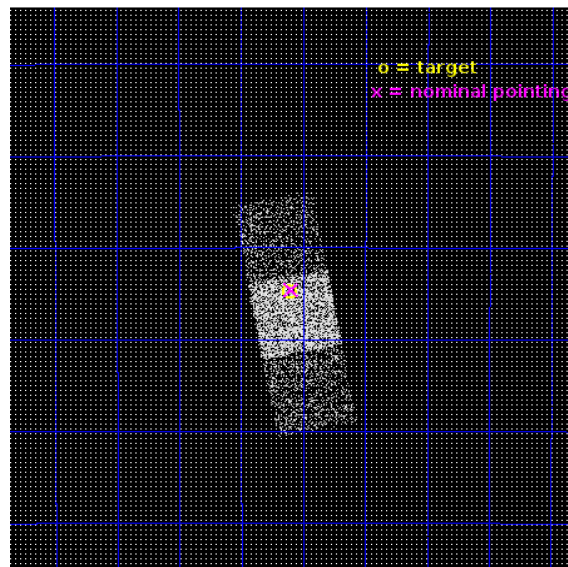
L2 Processing Date : Dec 24 2018

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1 Front

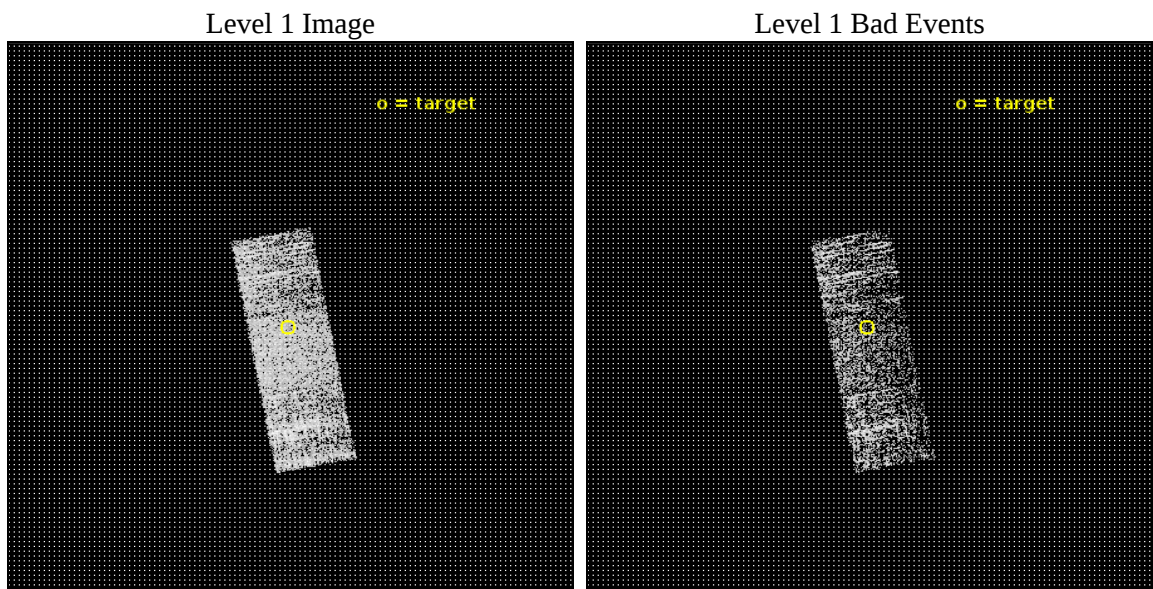
seq_num	703767	Sequence number
obs_id	21471	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	NGC 5264	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.402917	Observer's specified target RA [deg]
dec_targ	-29.912722	Observer's specified target Dec [deg]
ra_nom	205.39870554151	Nominal RA [deg]
dec_nom	-29.909988759853	Nominal Dec [deg]
roll_nom	79.303267297364	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1112.9000086784	Sum of GTIs [s]
livetime	1098.35915076	Livetime [s]
ontime6	1112.9000086784	Sum of GTIs [s]
ontime7	1112.9000086784	Sum of GTIs [s]
ontime8	1112.9000086784	Sum of GTIs [s]
l2events	6601	Number of level 2 events



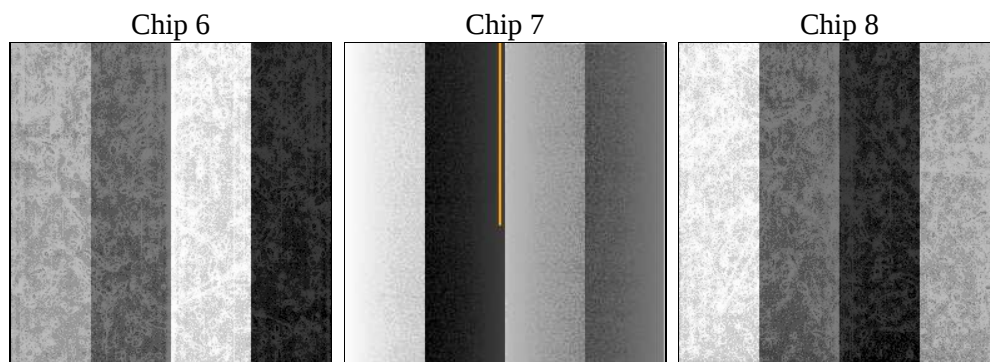
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	1112.9000086784	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	1112.9000086784	Sum of GTIs [s]
date	2018-12-24T06:13:59	Date and time of file creation	ontime7	1112.9000086784	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	1112.9000086784	Sum of GTIs [s]
			l1events	30564	Number of level 1 events

2.1.4 Events

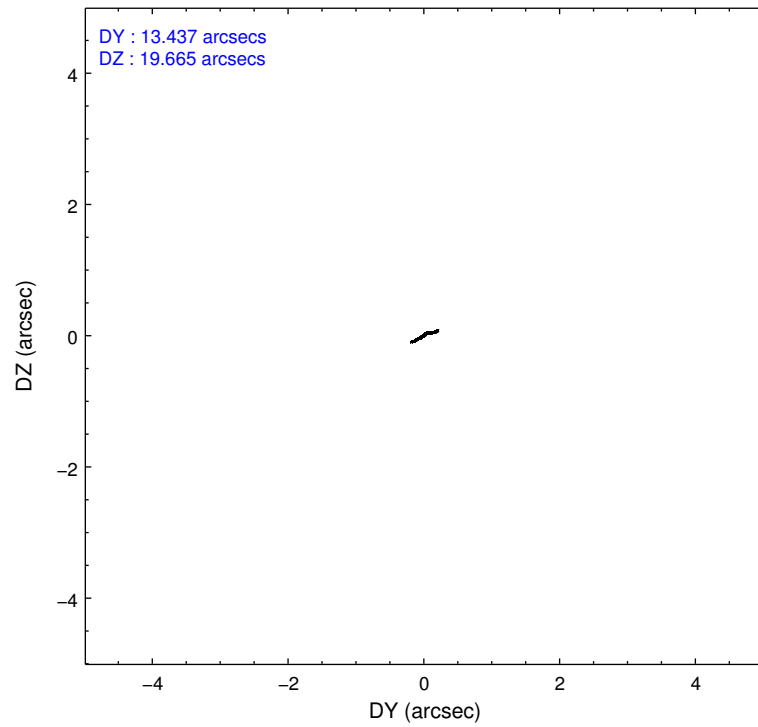
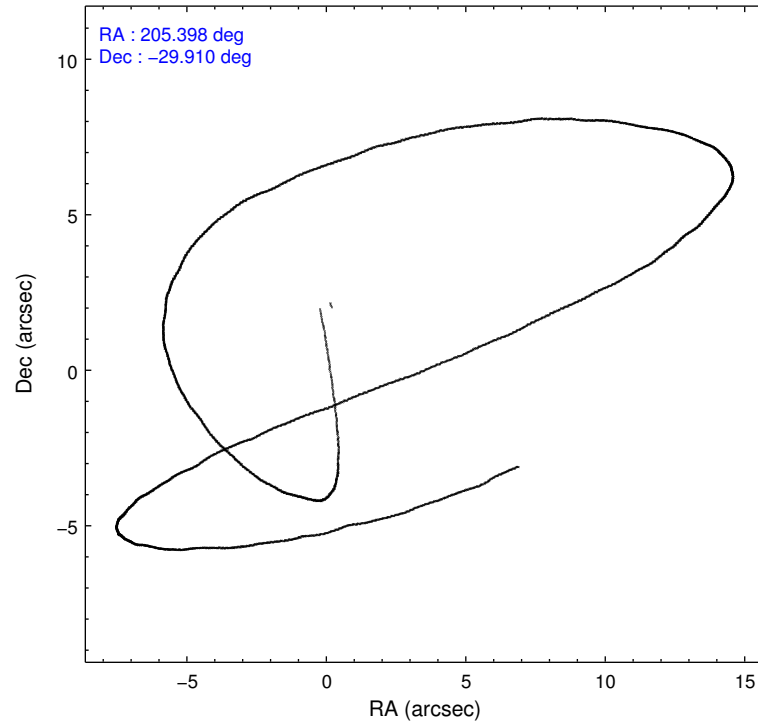
	ccd 6	ccd 7	ccd 8
level 1 events	8721	10891	10952
rejected events	7736	6048	7815
rejected %	88%	55%	71%

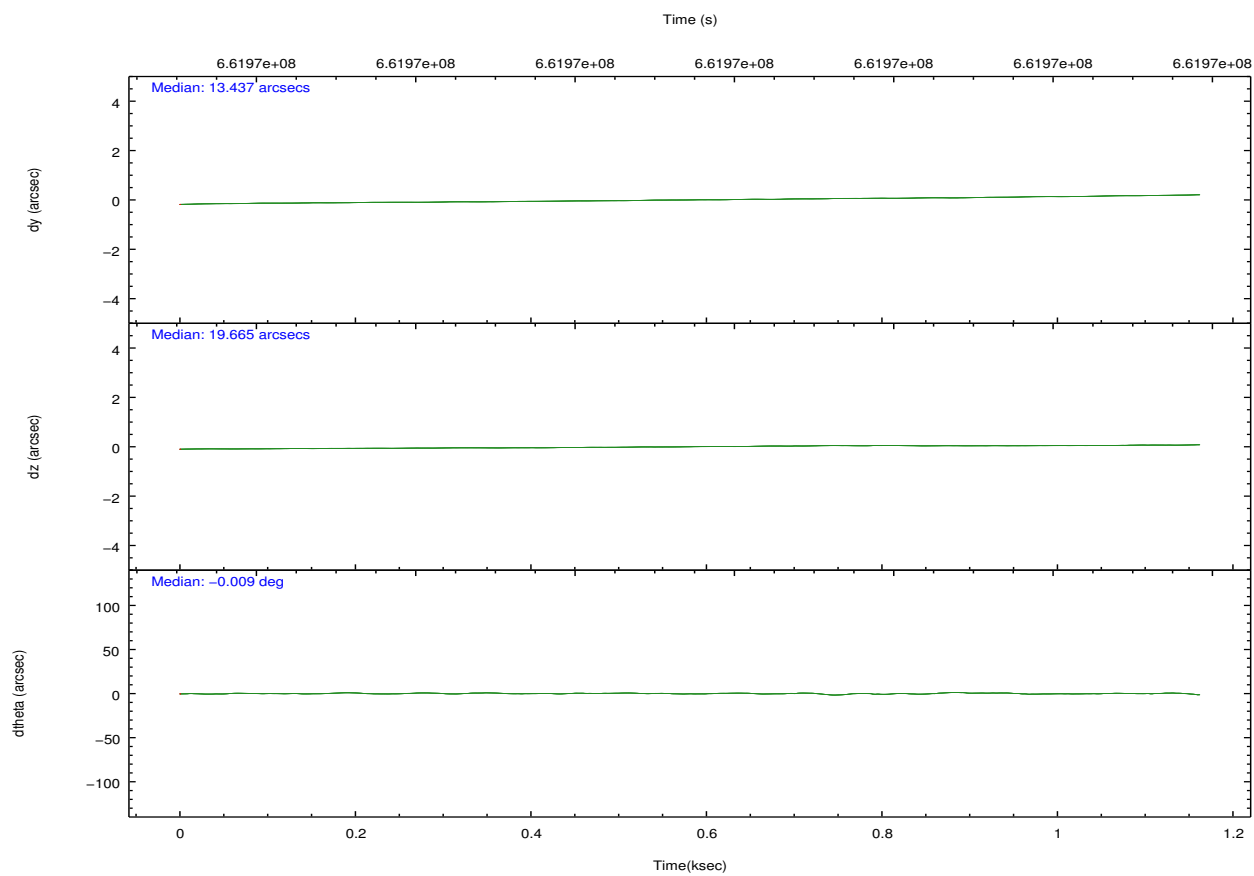
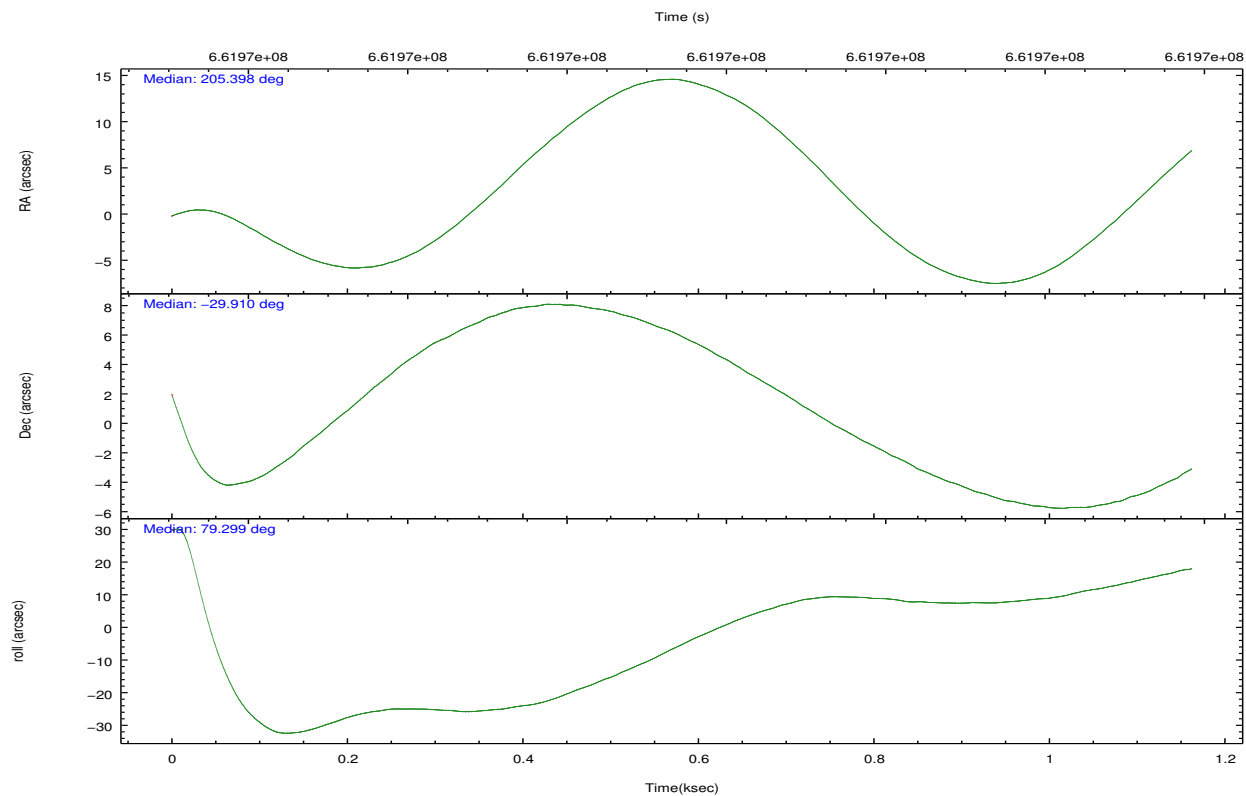
	ccd 6	ccd 7	ccd 8
grade 0 events	347	399	914
	3%	3%	8%
grade 1 events	6	22	22
	0%	0%	0%
grade 2 events	208	1062	819
	2%	9%	7%
grade 3 events	109	378	304
	1%	3%	2%
grade 4 events	100	386	255
	1%	3%	2%
grade 5 events	434	1061	598
	4%	9%	5%
grade 6 events	226	2646	866
	2%	24%	7%
grade 7 events	7291	4937	7174
	83%	45%	65%

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	205.410114	205.3987055415143	CCD I2 on	N	N
[deg] Pointing Dec	-29.935686	-29.90998875985333	CCD I3 on	N	N
[deg] Pointing Roll	79.151889	79.30326729736396	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	661973727.184000	661972635.50697	CCD S5 on	N	N
Observation start date	2018-12-23T17:34:18	2018-12-23T17:17:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	661974727.184000	661975729.98216	On-chip summing requested	N	N
Observation end date	2018-12-23T17:50:58	2018-12-23T18:08:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



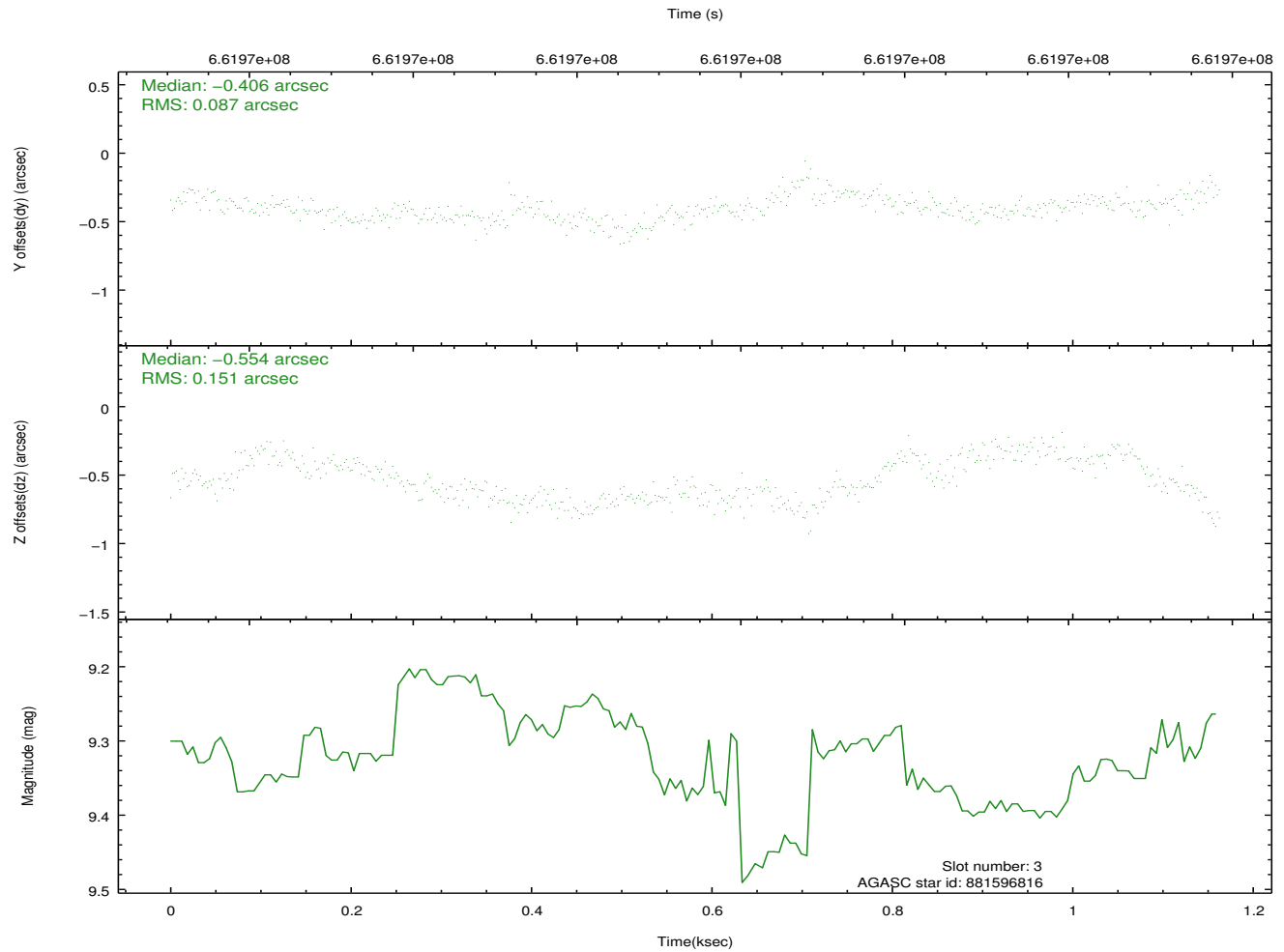
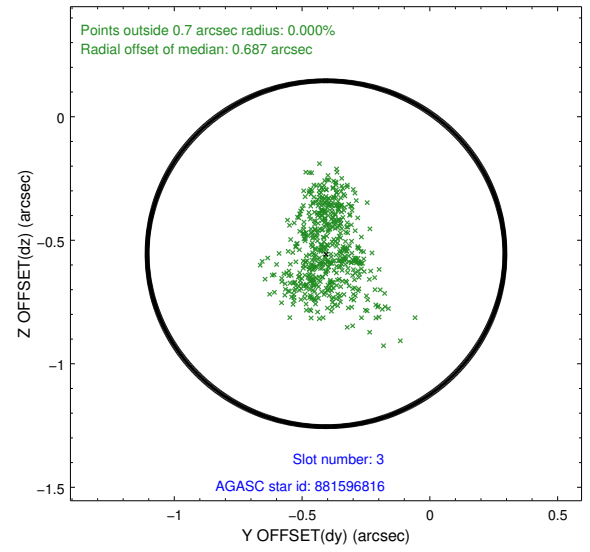
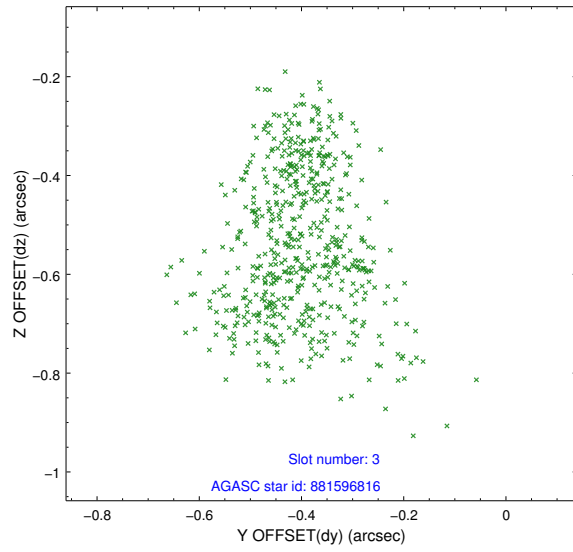


Slot Statistics

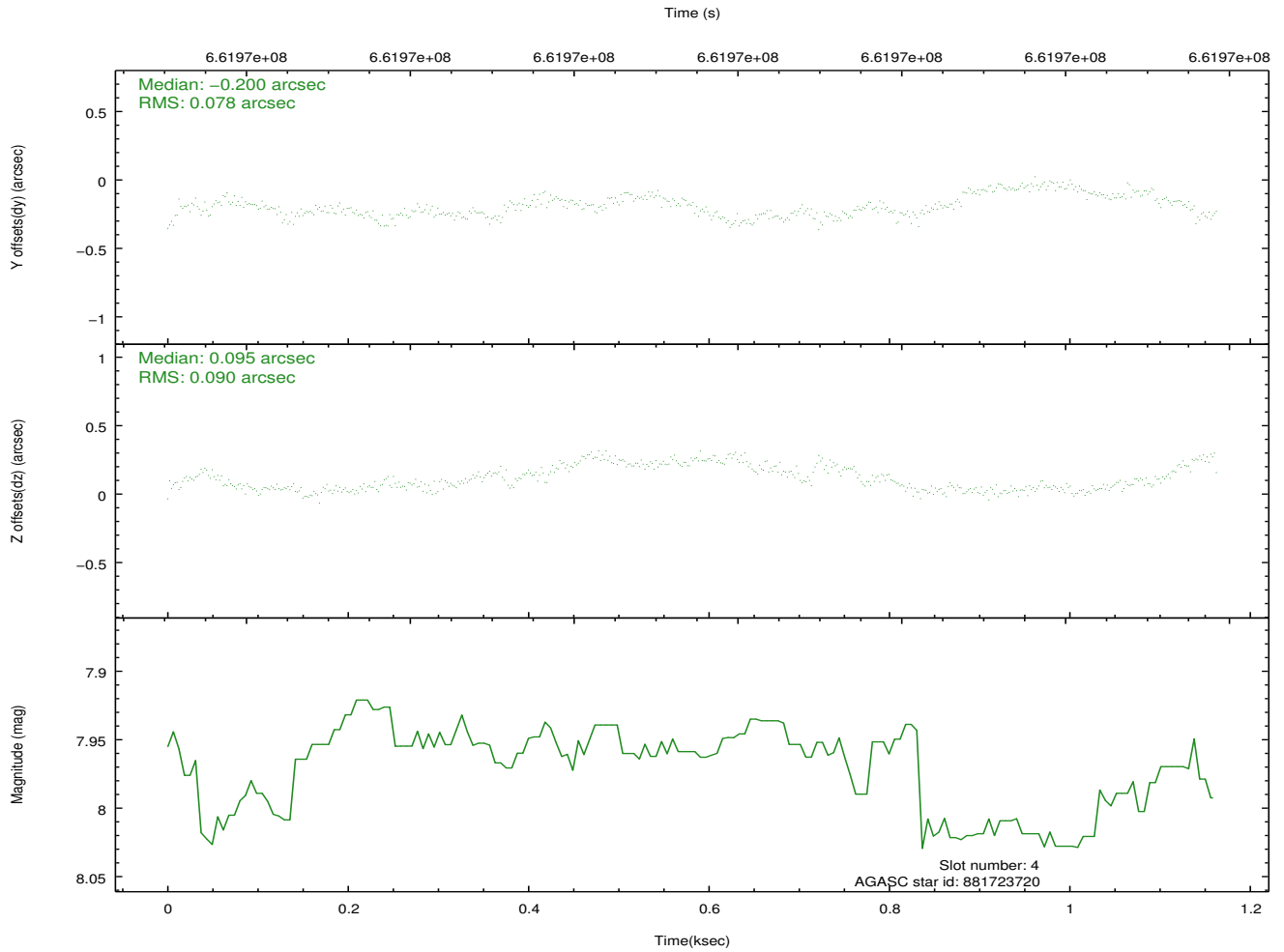
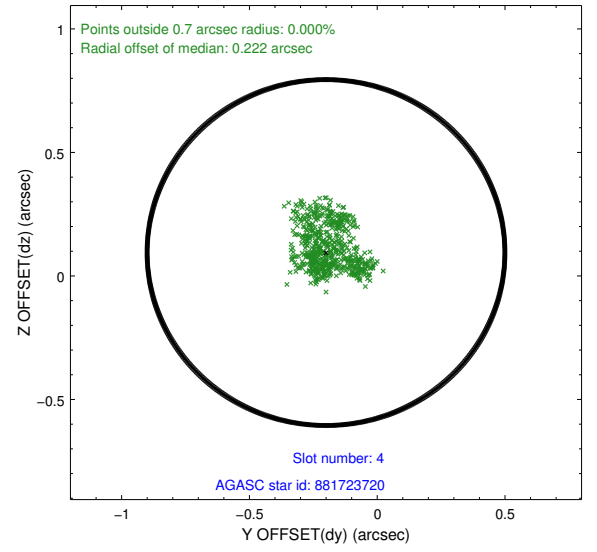
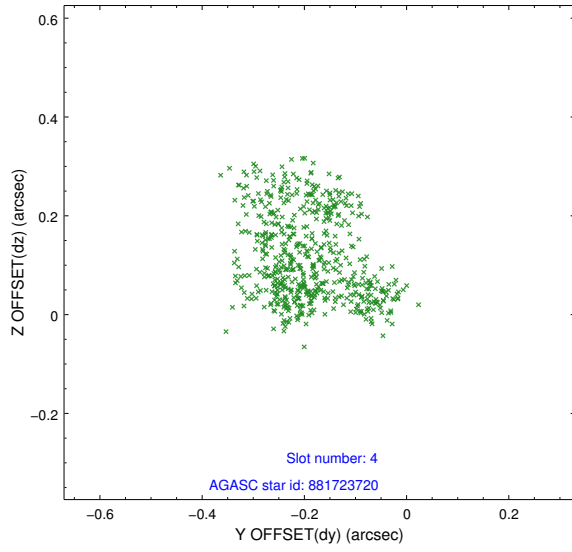
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.04	284	1.000	0.028	-0.095	0.009	0.013	0.000000	0.000000	929.82	-1736
1	FID		ACIS-S-4	7.08	284	1.000	0.587	0.057	0.007	0.011	0.000000	0.000000	2150.83	161
2	FID		ACIS-S-5	7.05	284	1.000	-0.641	0.050	0.007	0.013	0.000000	0.000000	-1812.49	161
3	GUIDE	used	881596816	9.32	566	1.000	-0.406	-0.554	0.190	0.290	204.937618	-29.613548	857.71	1668
4	GUIDE	used	881723720	7.96	568	1.000	-0.200	0.095	0.134	0.194	205.571984	-29.720482	857.98	-349
5	GUIDE	used	881731704	8.45	567	1.000	-0.072	0.182	0.124	0.194	205.792427	-29.423087	2038.39	-831
6	GUIDE	used	952371512	9.58	567	1.000	0.104	-0.181	0.186	0.363	204.871088	-30.354931	-1797.07	1357
7	GUIDE	used	952376648	9.06	567	1.000	0.564	0.417	0.142	0.210	205.390258	-30.589136	-2323.74	-380

2.4 Star Slots

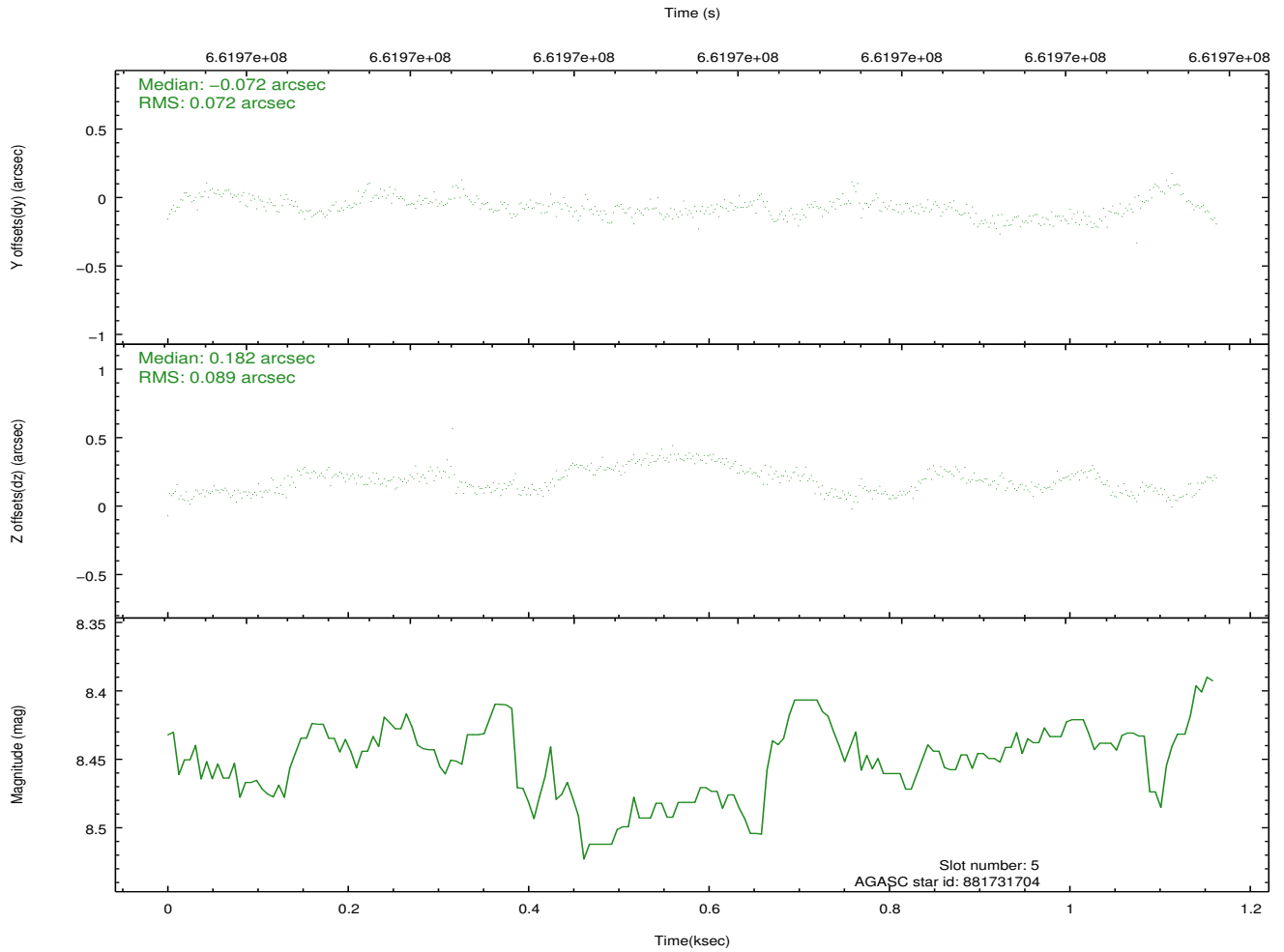
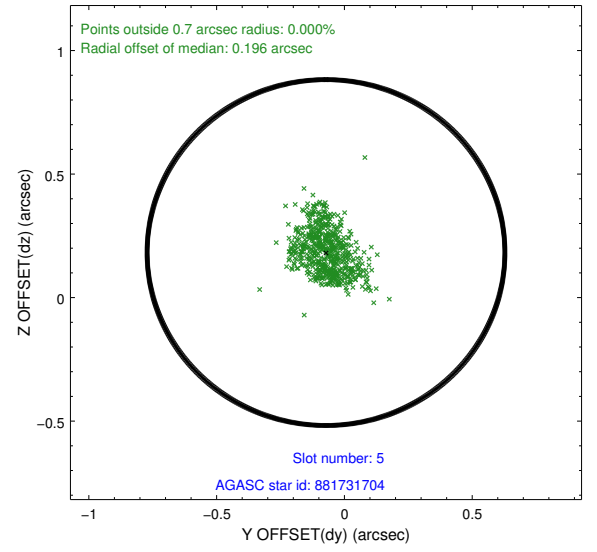
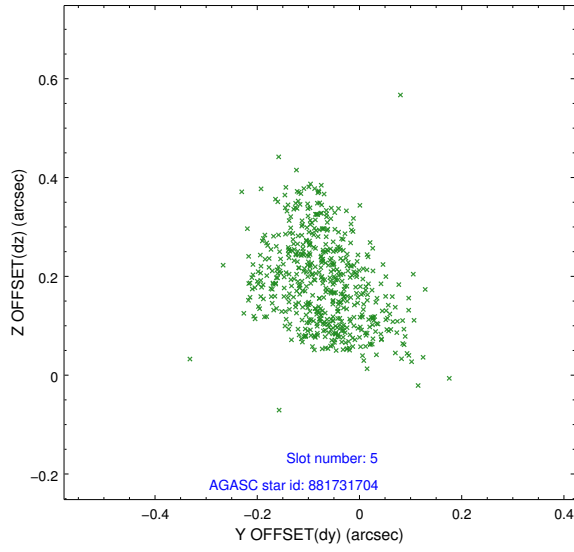
2.4.1 Slot 3



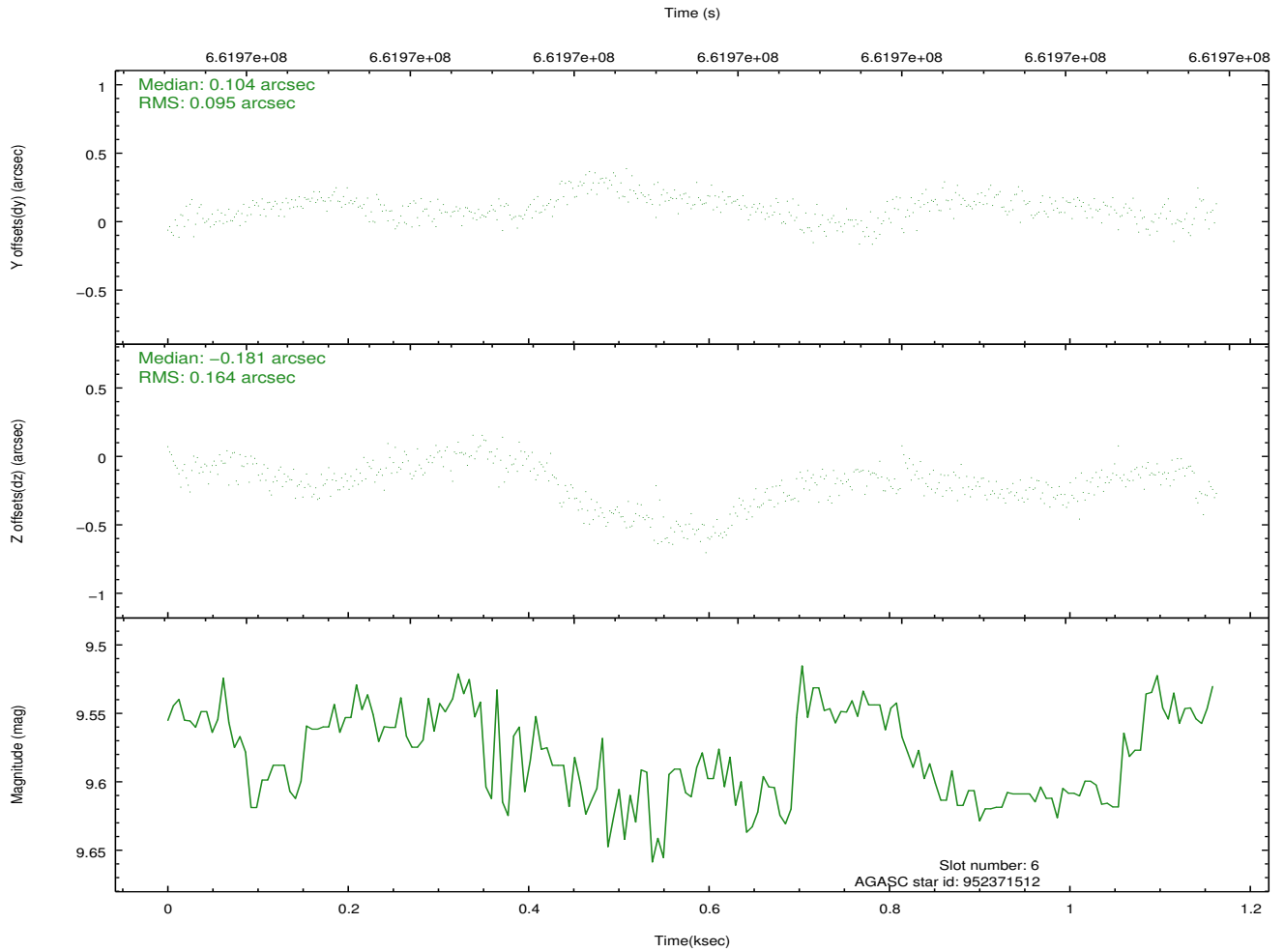
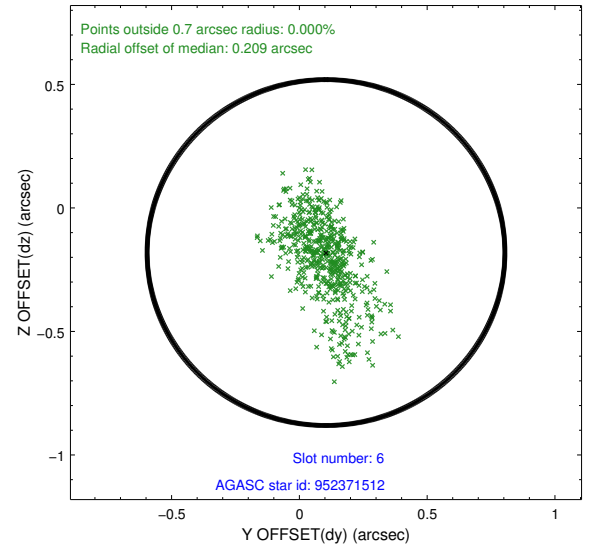
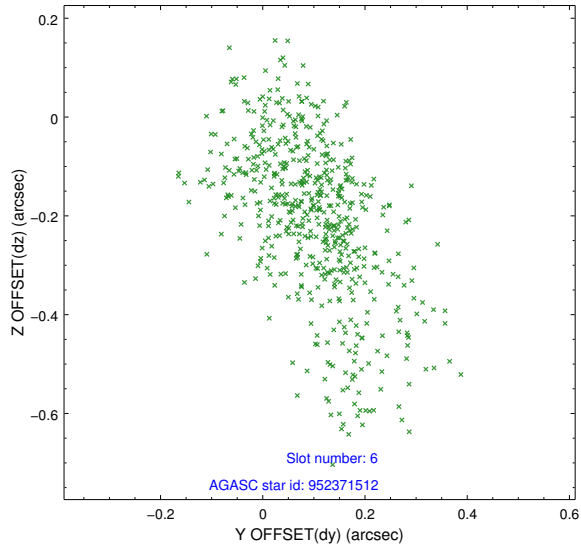
2.4.2 Slot 4



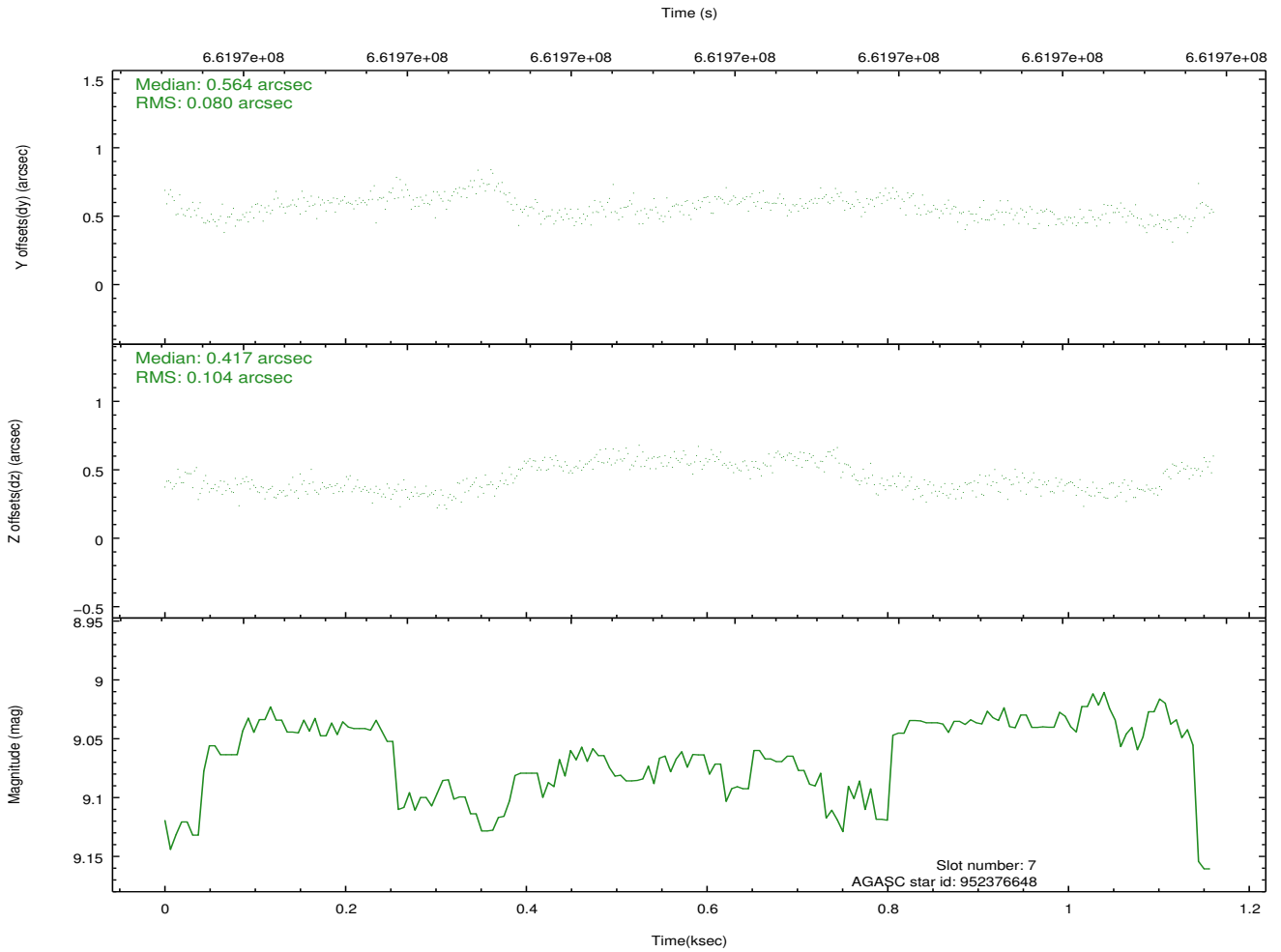
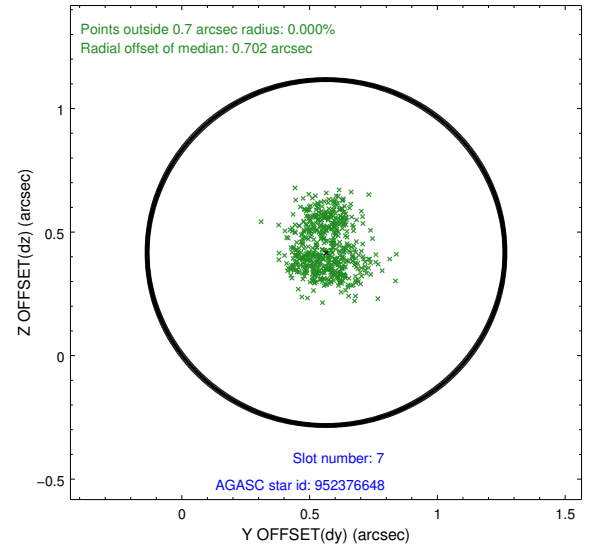
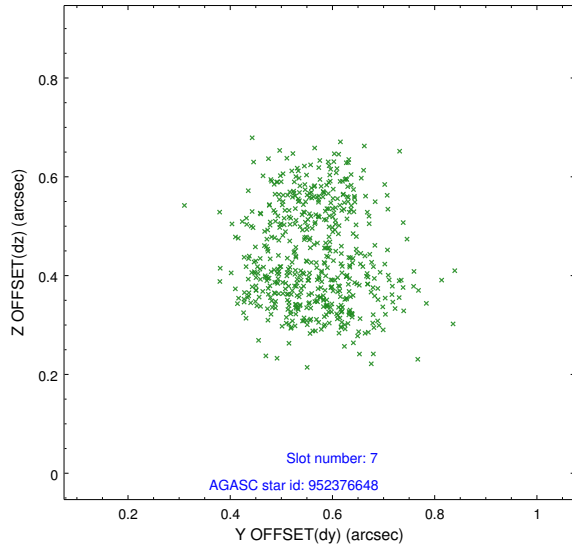
2.4.3 Slot 5



2.4.4 Slot 6

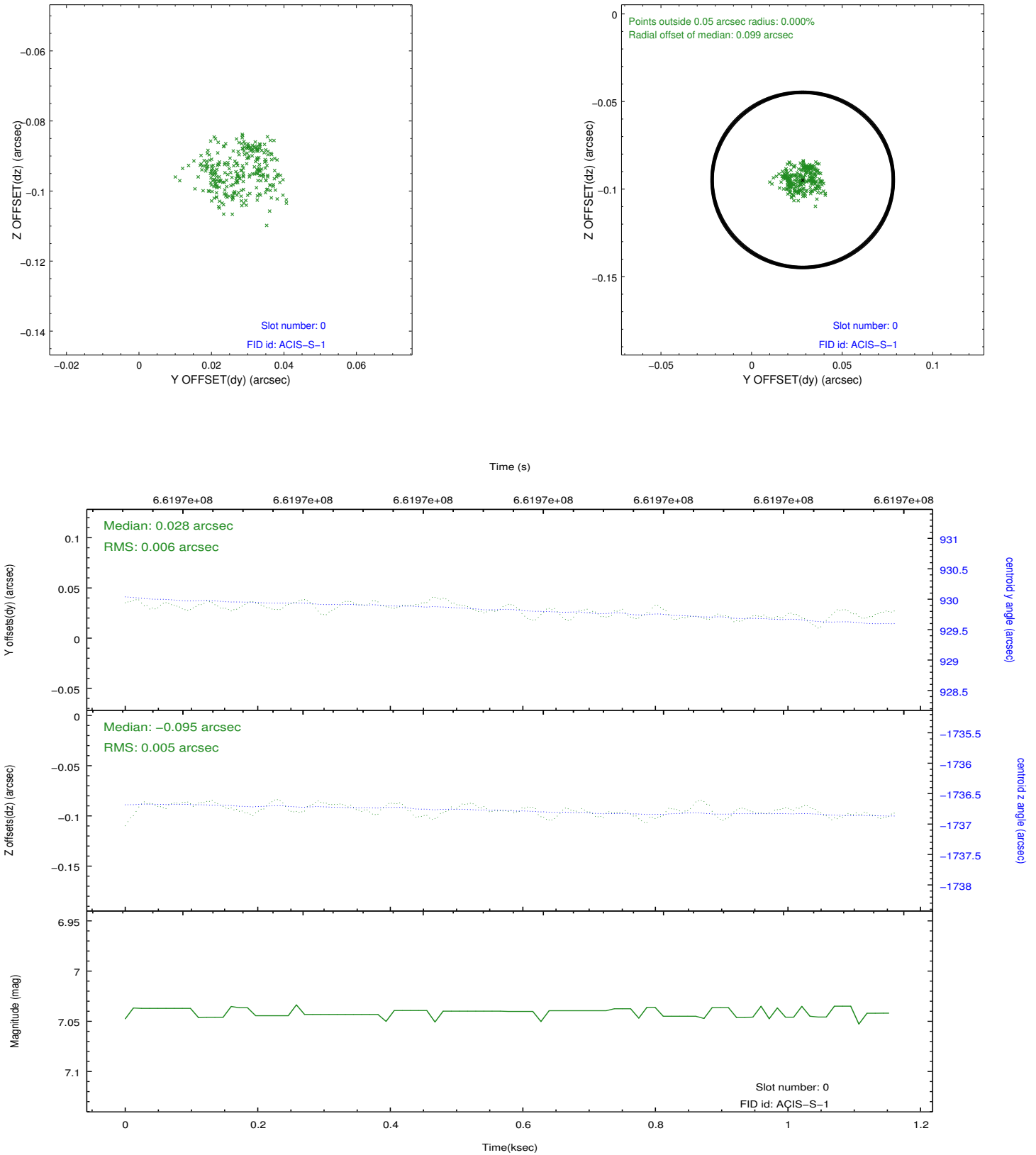


2.4.5 Slot 7

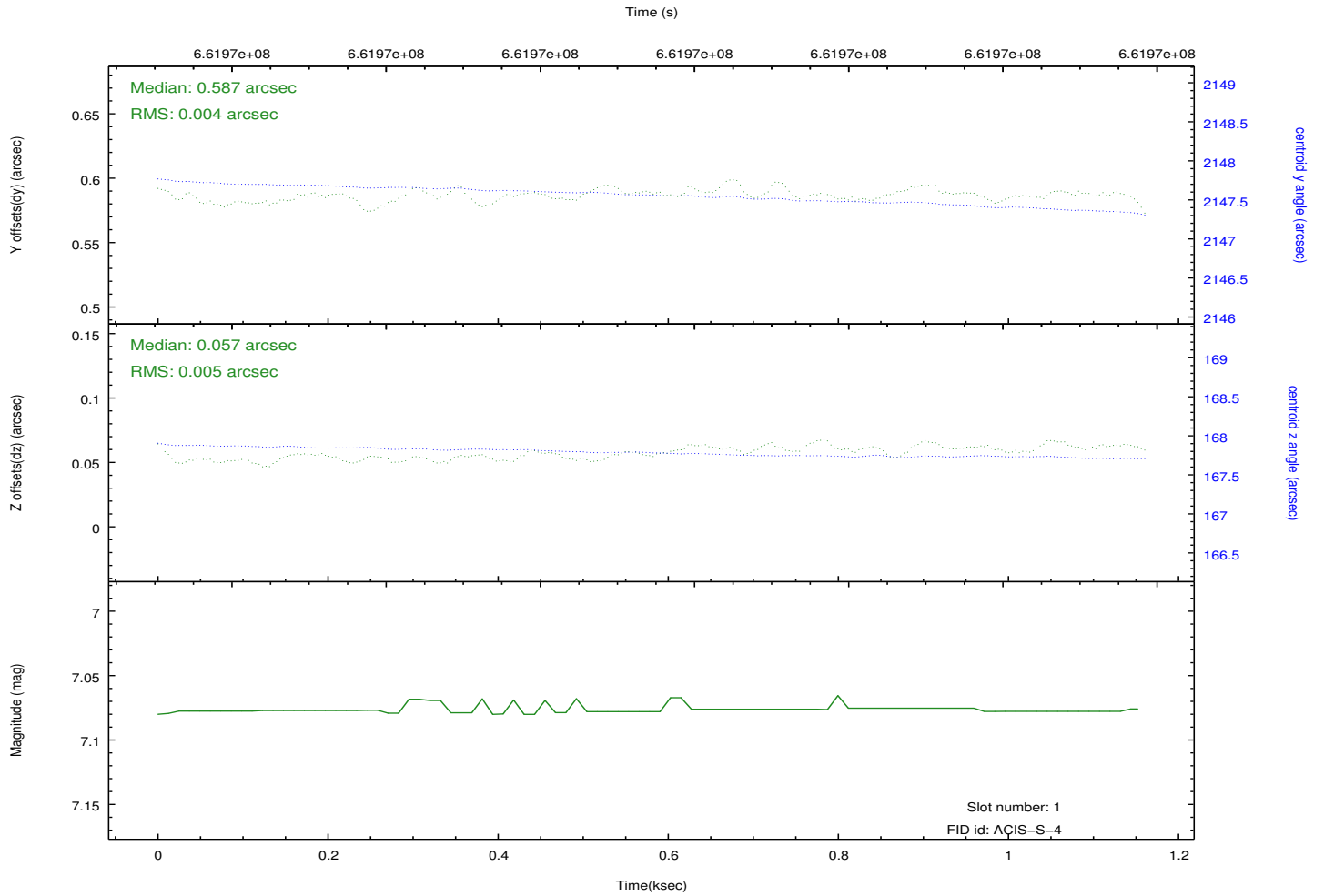
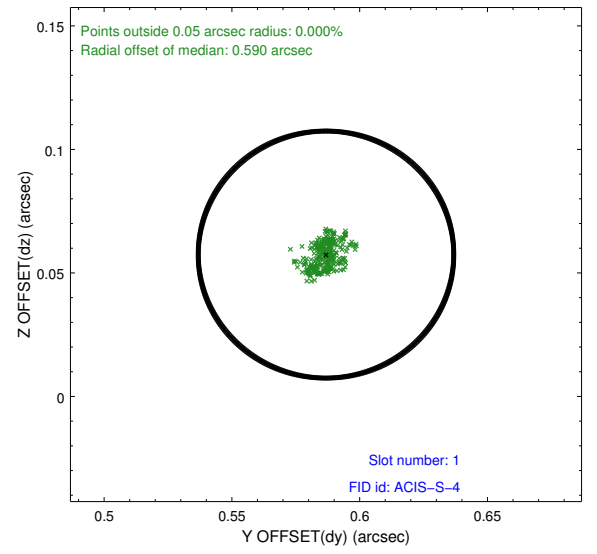
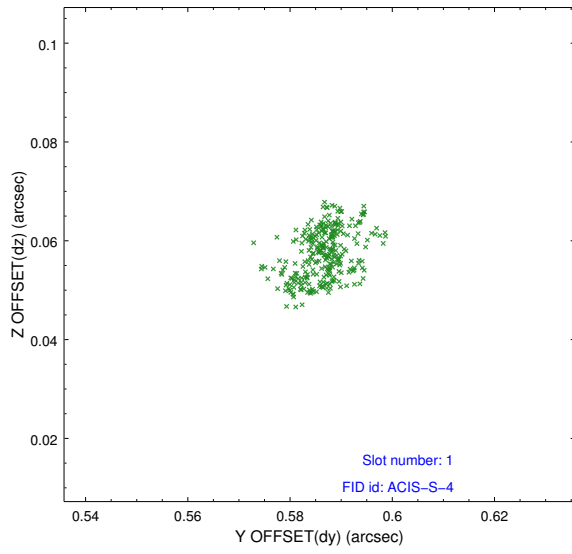


2.5 FID Slots

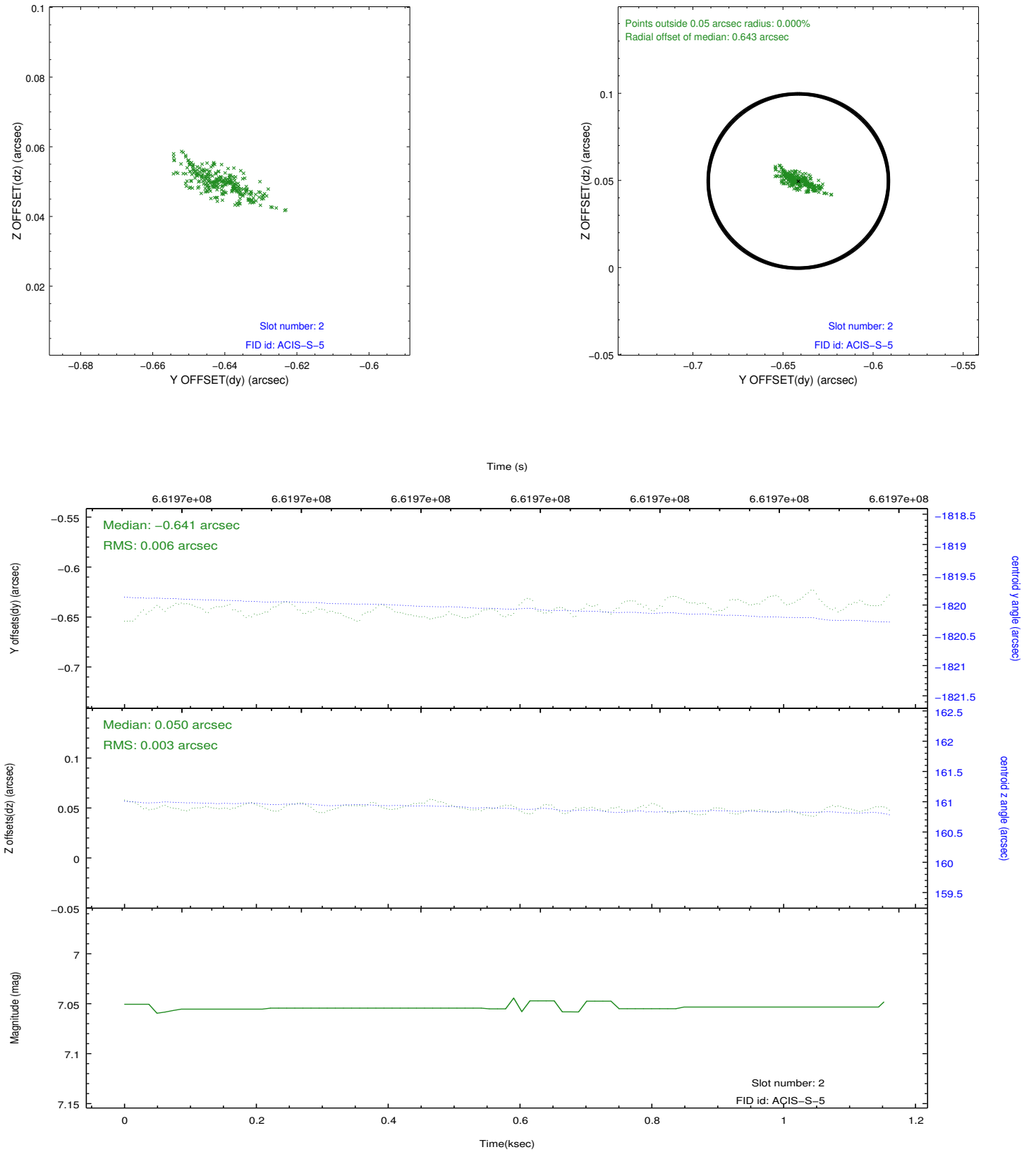
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.12.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1129000086784

A.2 Comments