

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21472 - L2 Version 1
Chandra X-Ray Center

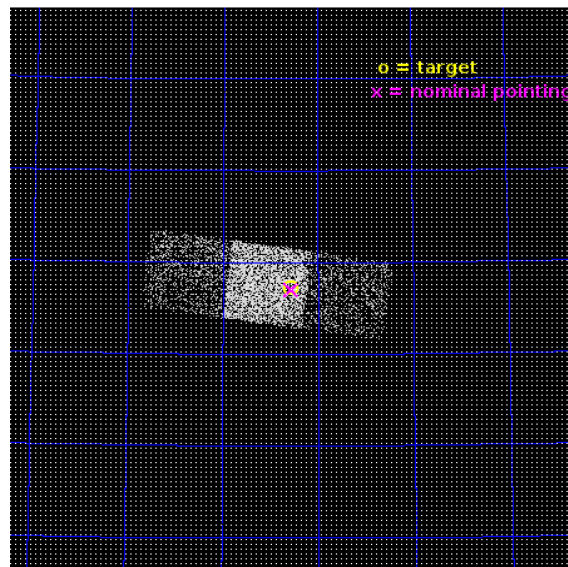
L2 Processing Date : Feb 16 2019

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1 Front

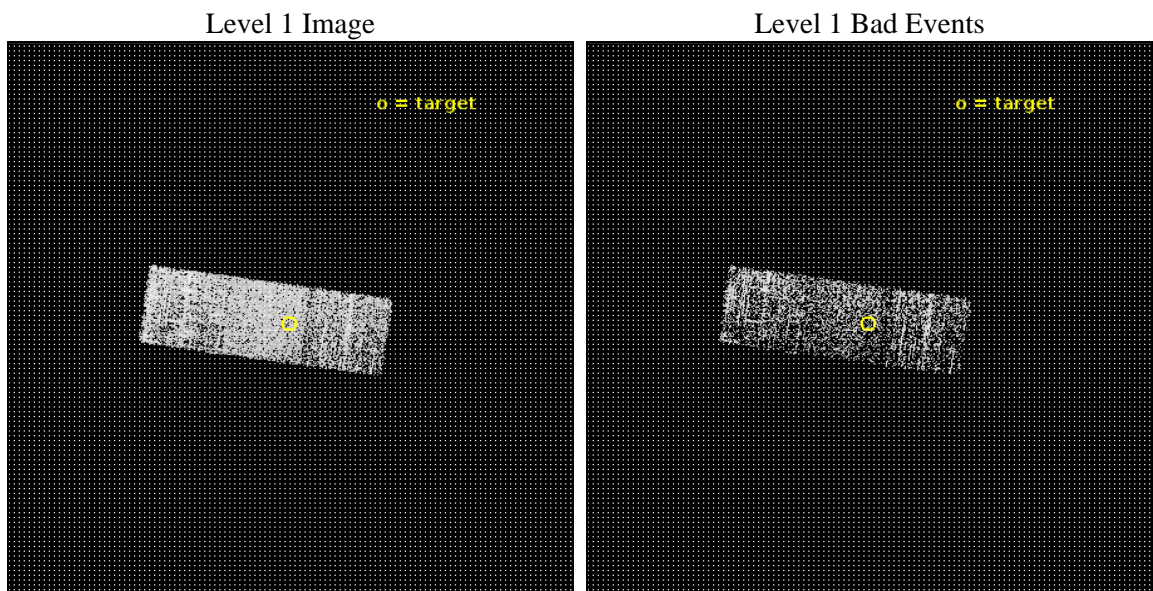
seq_num	703768	Sequence number
obs_id	21472	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	UGC 05692	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.645	Observer's specified target RA [deg]
dec_targ	70.621389	Observer's specified target Dec [deg]
ra_nom	157.63886397984	Nominal RA [deg]
dec_nom	70.617029500875	Nominal Dec [deg]
roll_nom	188.16224060535	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1094.3000085354	Sum of GTIs [s]
livetime	1080.0021733119	Livetime [s]
ontime6	1094.3000085354	Sum of GTIs [s]
ontime7	1094.3000085354	Sum of GTIs [s]
ontime8	1094.3000085354	Sum of GTIs [s]
l2events	6319	Number of level 2 events



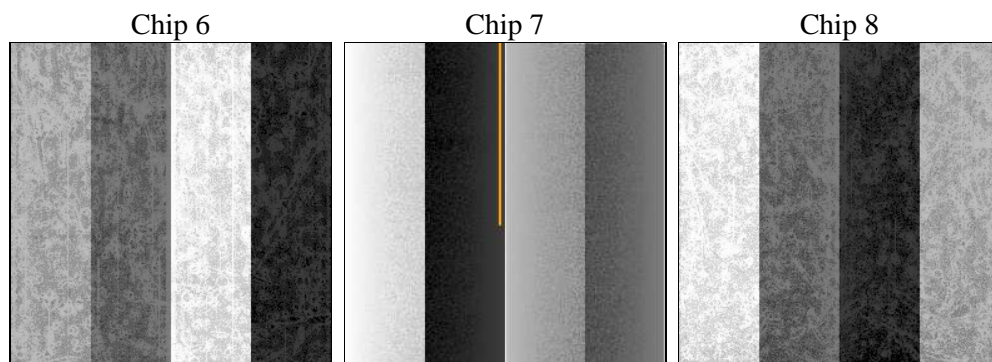
2 OBI

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	1094.3000085354	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	1094.3000085354	Sum of GTIs [s]
date	2019-02-16T06:04:56	Date and time of file creation	ontime7	1094.3000085354	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	1094.3000085354	Sum of GTIs [s]
			l1events	30147	Number of level 1 events

2.1.4 Events

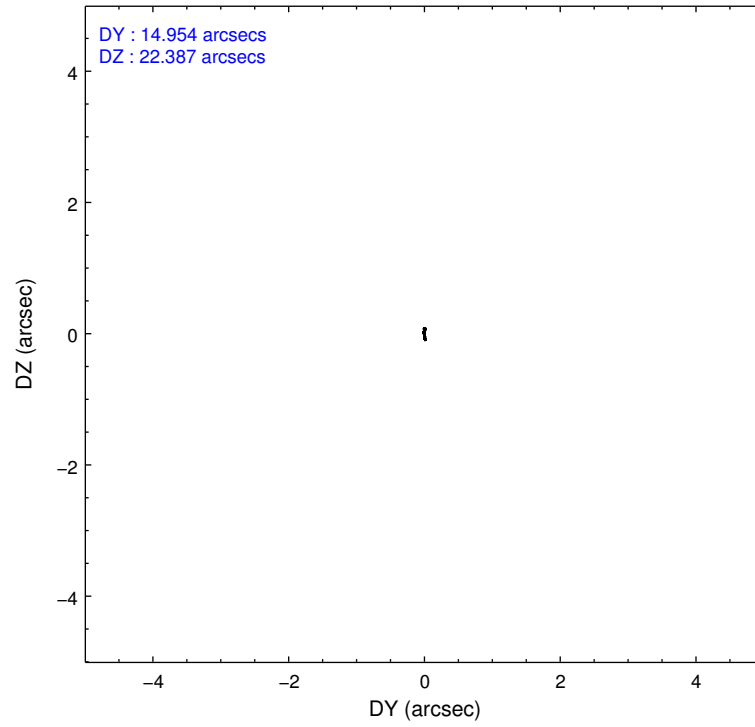
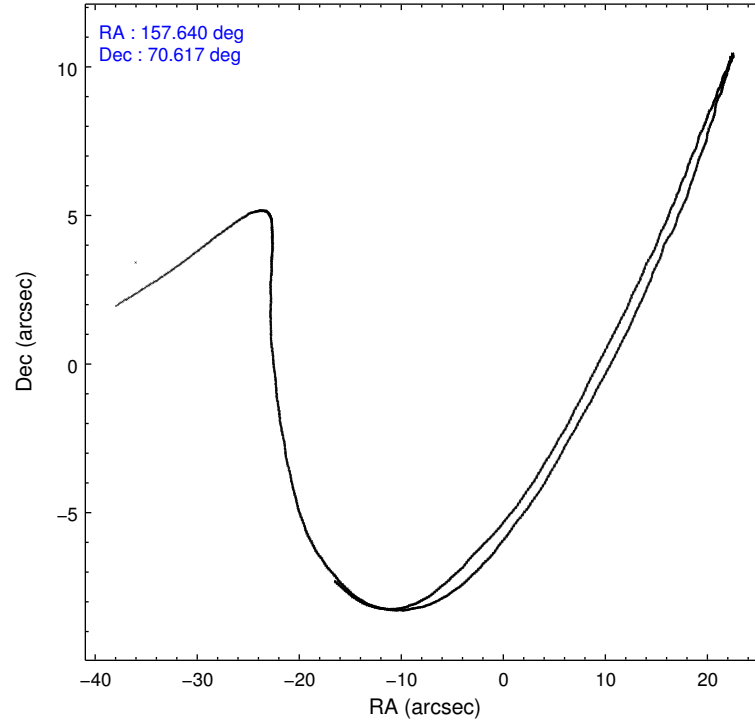
	ccd 6	ccd 7	ccd 8
level 1 events	7725	10800	11622
rejected events	6834	6137	8272
rejected %	88%	56%	71%

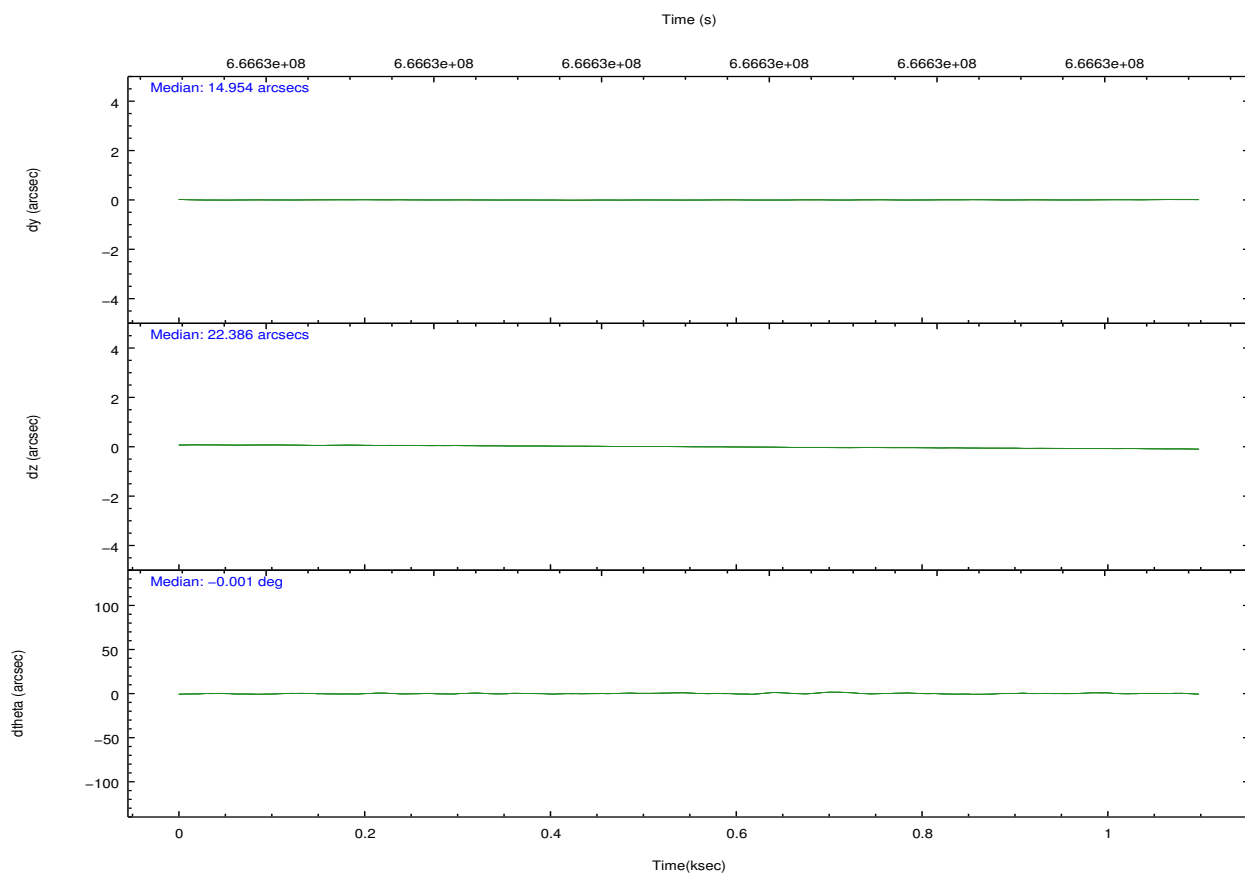
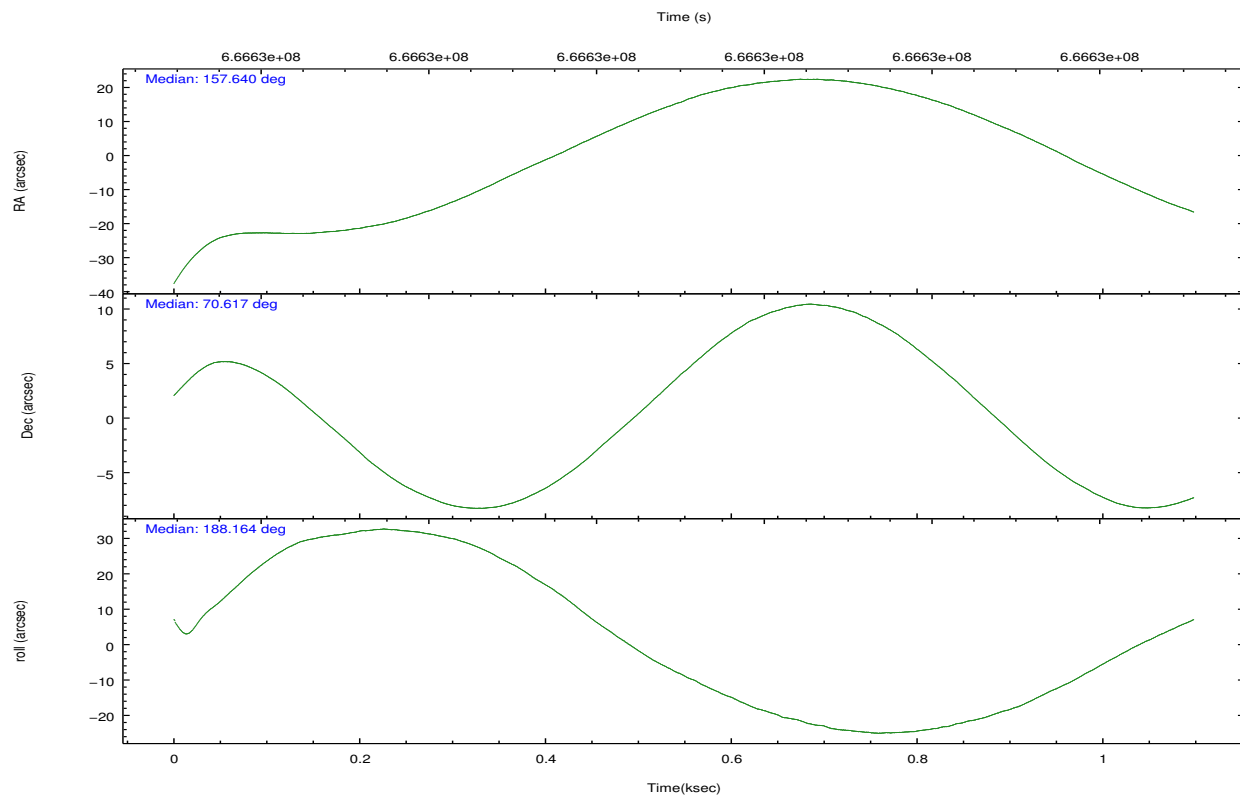
	ccd 6	ccd 7	ccd 8
grade 0 events	302	419	948
	3%	3%	8%
grade 1 events	7	26	12
	0%	0%	0%
grade 2 events	202	1012	843
	2%	9%	7%
grade 3 events	101	351	342
	1%	3%	2%
grade 4 events	89	383	334
	1%	3%	2%
grade 5 events	367	1104	558
	4%	10%	4%
grade 6 events	214	2576	931
	2%	23%	8%
grade 7 events	6443	4929	7654
	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	157.703747	157.6388639798387	CCD I2 on	N	N
[deg] Pointing Dec	70.634535	70.61702950087523	CCD I3 on	N	N
[deg] Pointing Roll	187.944582	188.1622406053523	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)	666626678.184000	666625164.59729	CCD S5 on	N	N
Observation start date	2019-02-15T14:03:29	2019-02-15T13:39:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	666627678.184000	666628340.04748	On-chip summing requested	N	N
Observation end date	2019-02-15T14:20:09	2019-02-15T14:32:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



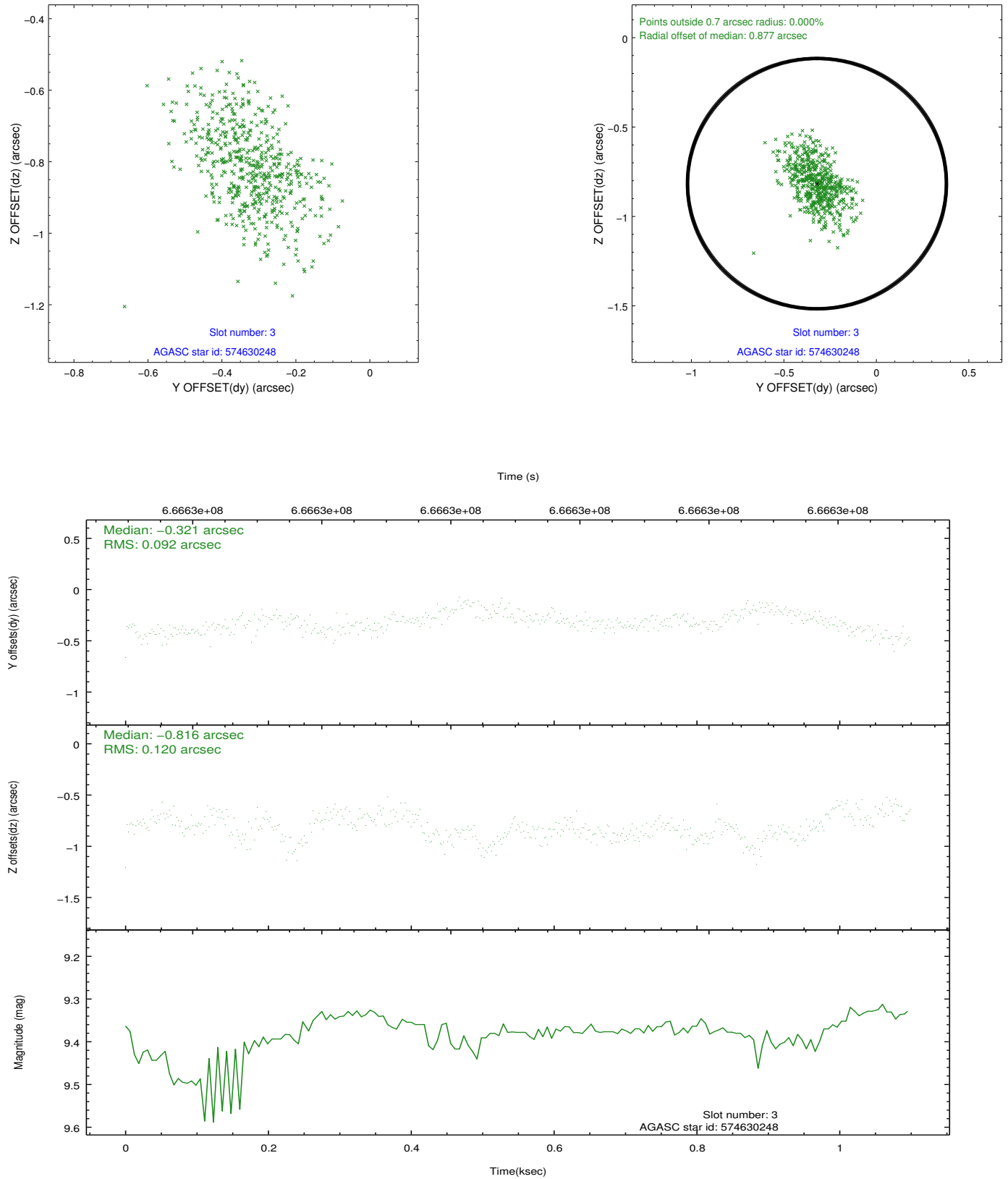


Slot Statistics

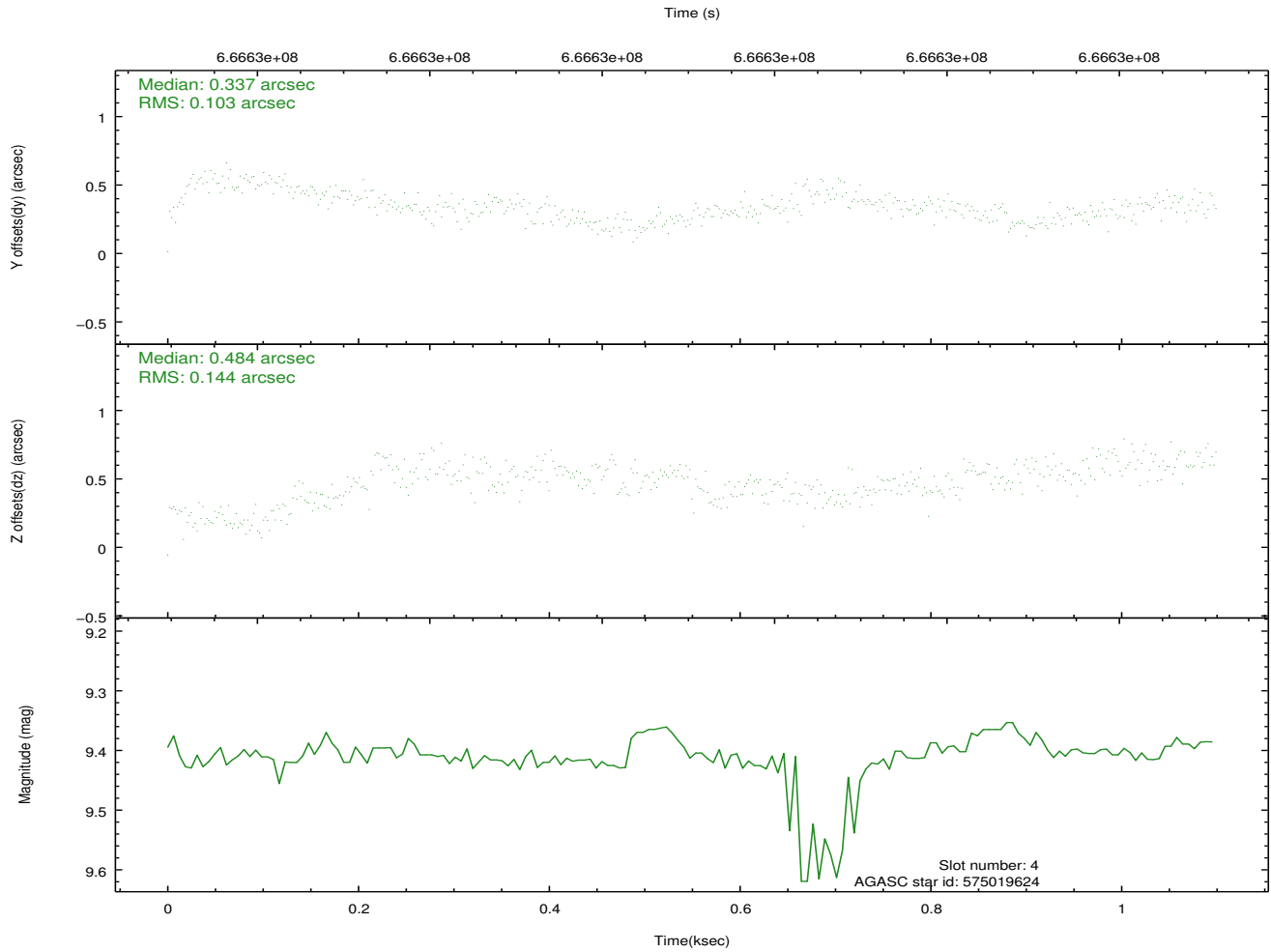
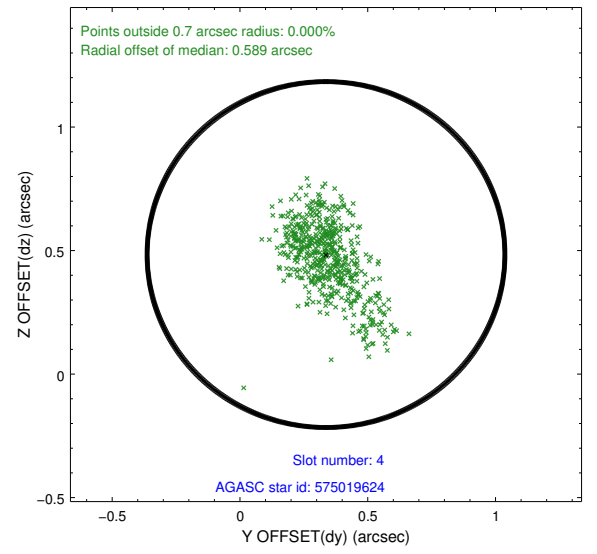
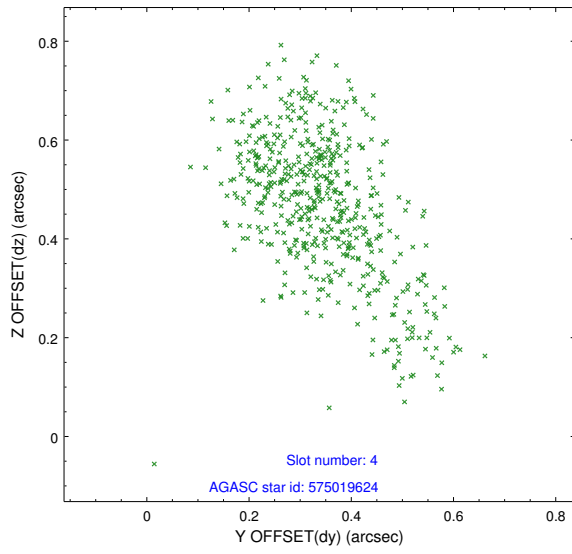
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	268	1.000	-0.450	-0.307	0.005	0.009	0.000000	0.000000	-768.47	-1744
1	FID		ACIS-S-4	7.08	268	1.000	0.463	0.271	0.005	0.010	0.000000	0.000000	2143.03	158
2	FID		ACIS-S-6	7.22	268	1.000	-0.040	0.043	0.006	0.010	0.000000	0.000000	401.86	802
3	GUIDE	used	574630248	9.38	533	1.000	-0.321	-0.816	0.157	0.272	157.104275	69.936517	1079.79	2381
4	GUIDE	used	575019624	9.41	537	1.000	0.337	0.484	0.175	0.338	157.419528	71.322620	-15.65	-2495
5	GUIDE	used	575020784	9.17	536	1.000	0.024	0.051	0.172	0.288	159.336336	70.661760	-1944.55	140
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	575025936	8.91	536	1.000	-0.059	0.301	0.146	0.215	159.639551	70.576027	-2274.49	492

2.4 Star Slots

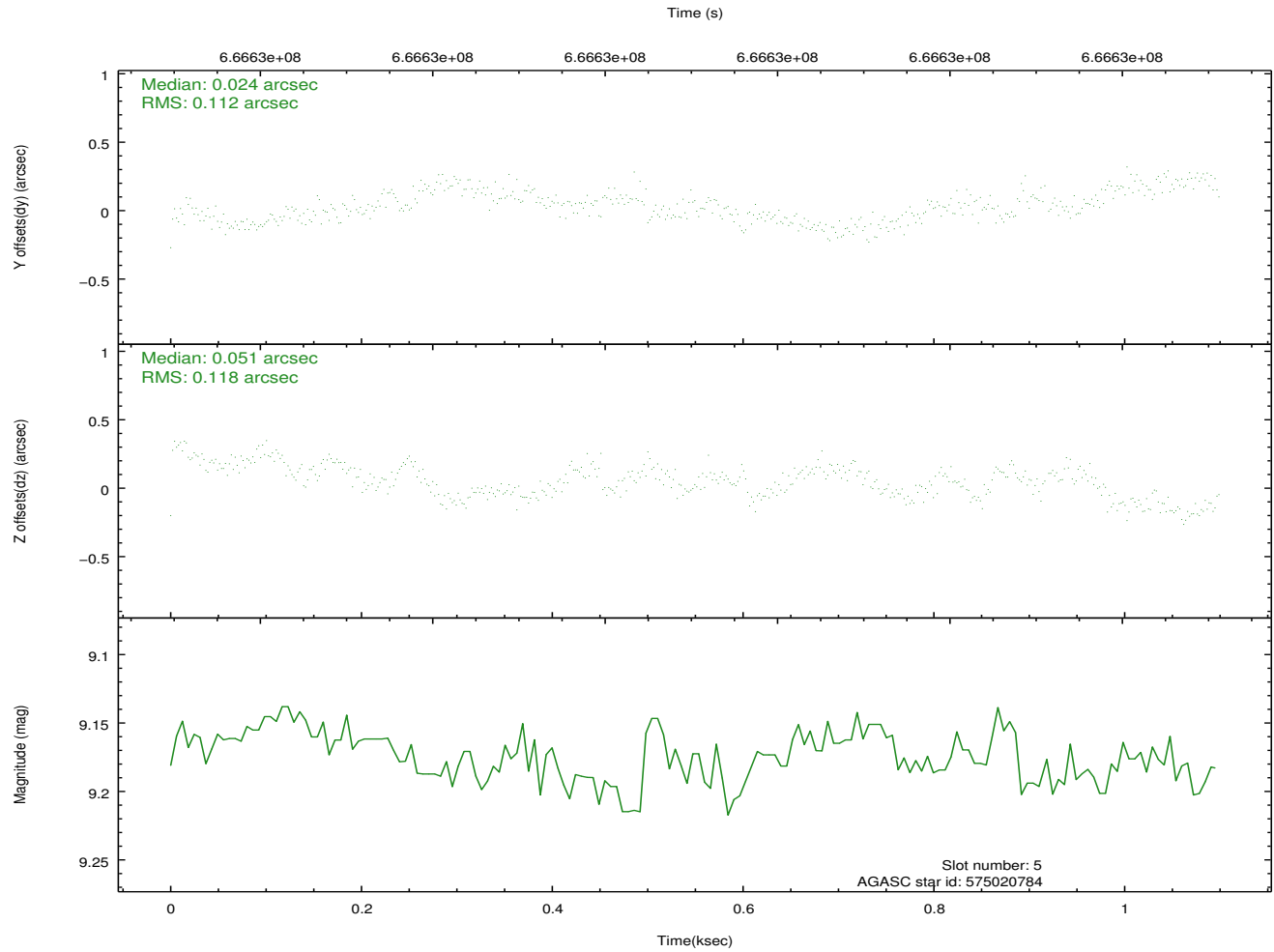
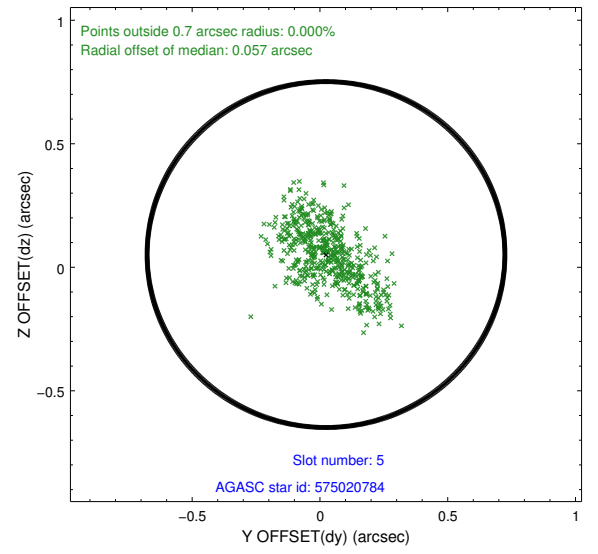
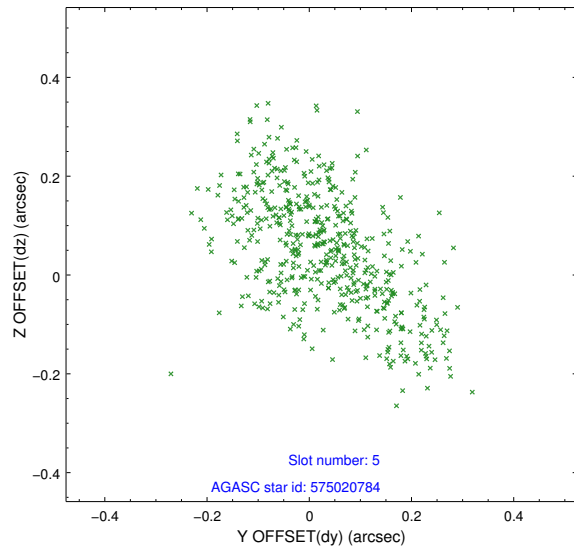
2.4.1 Slot 3



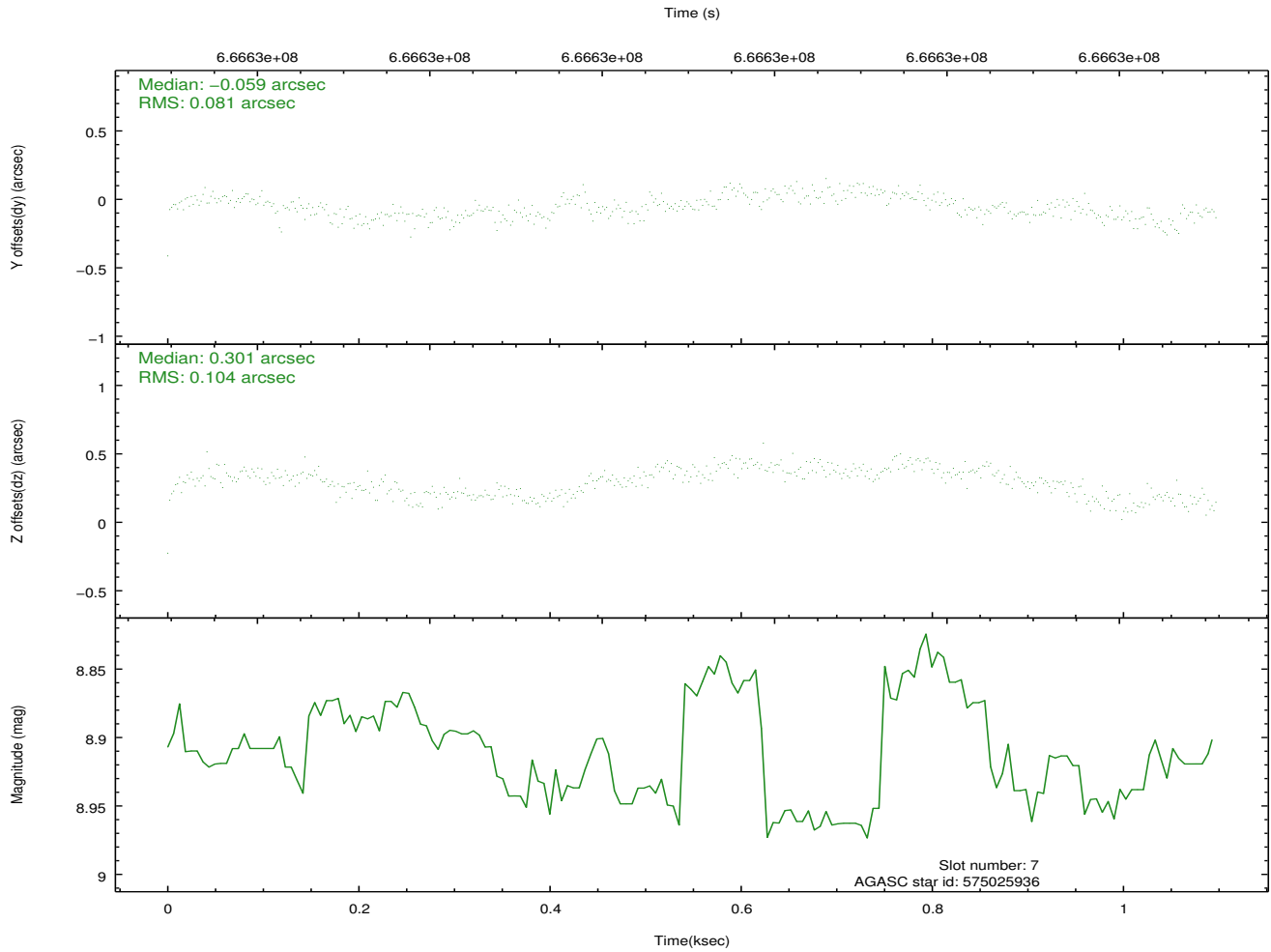
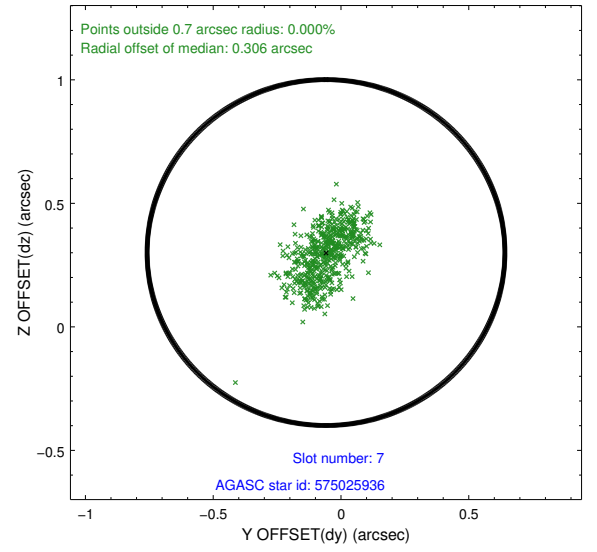
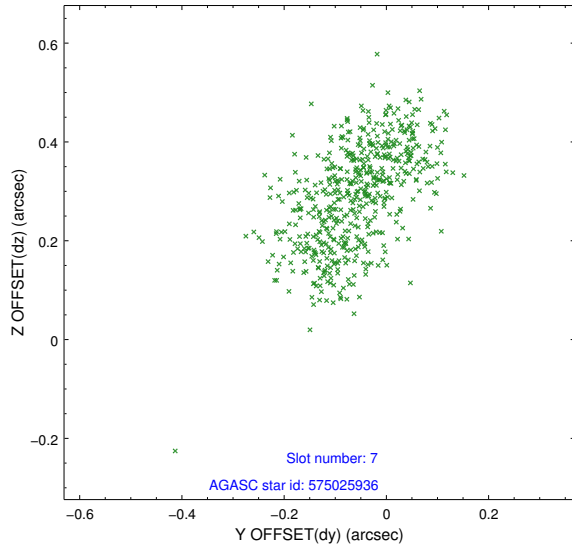
2.4.2 Slot 4



2.4.3 Slot 5

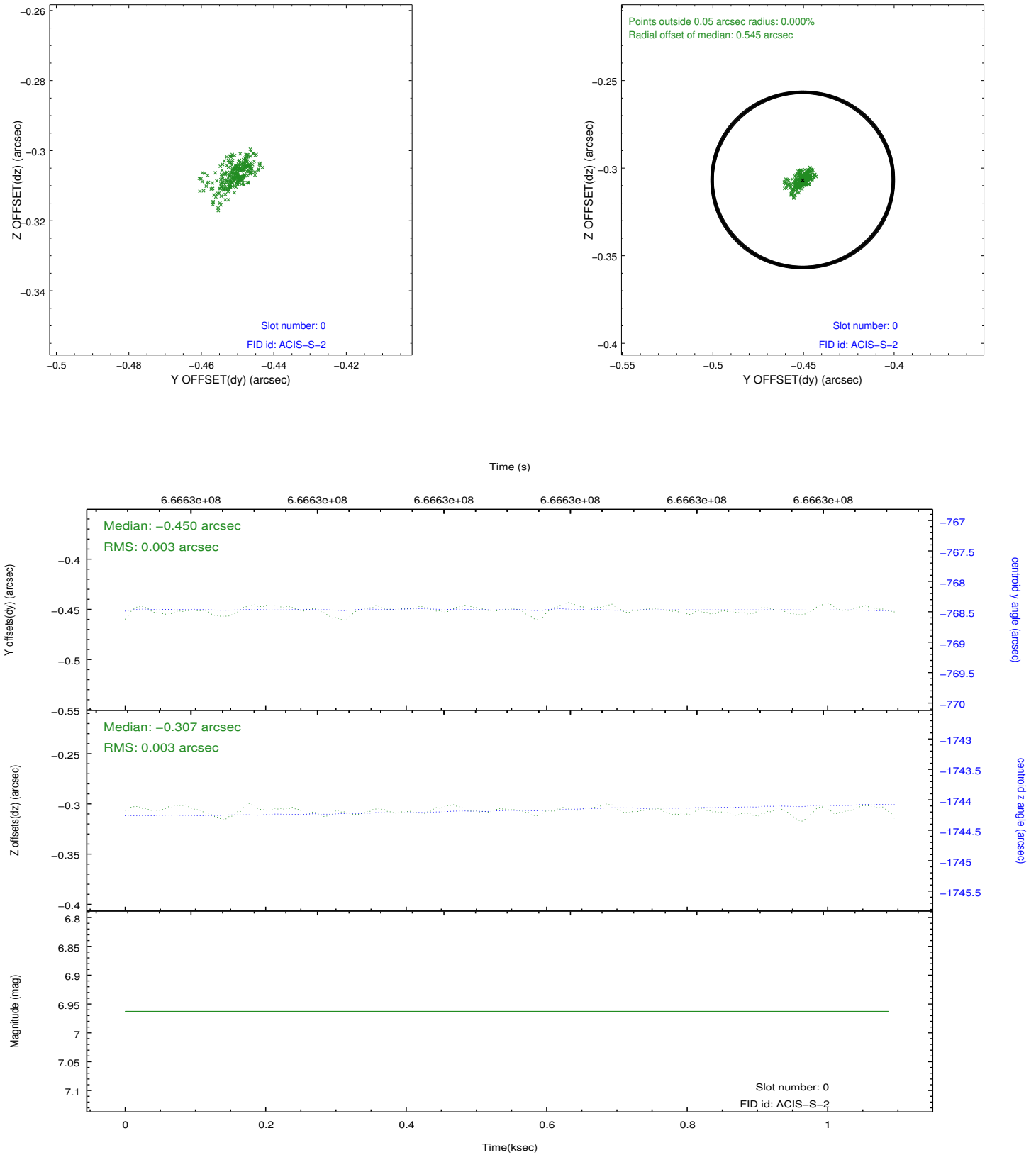


2.4.4 Slot 7

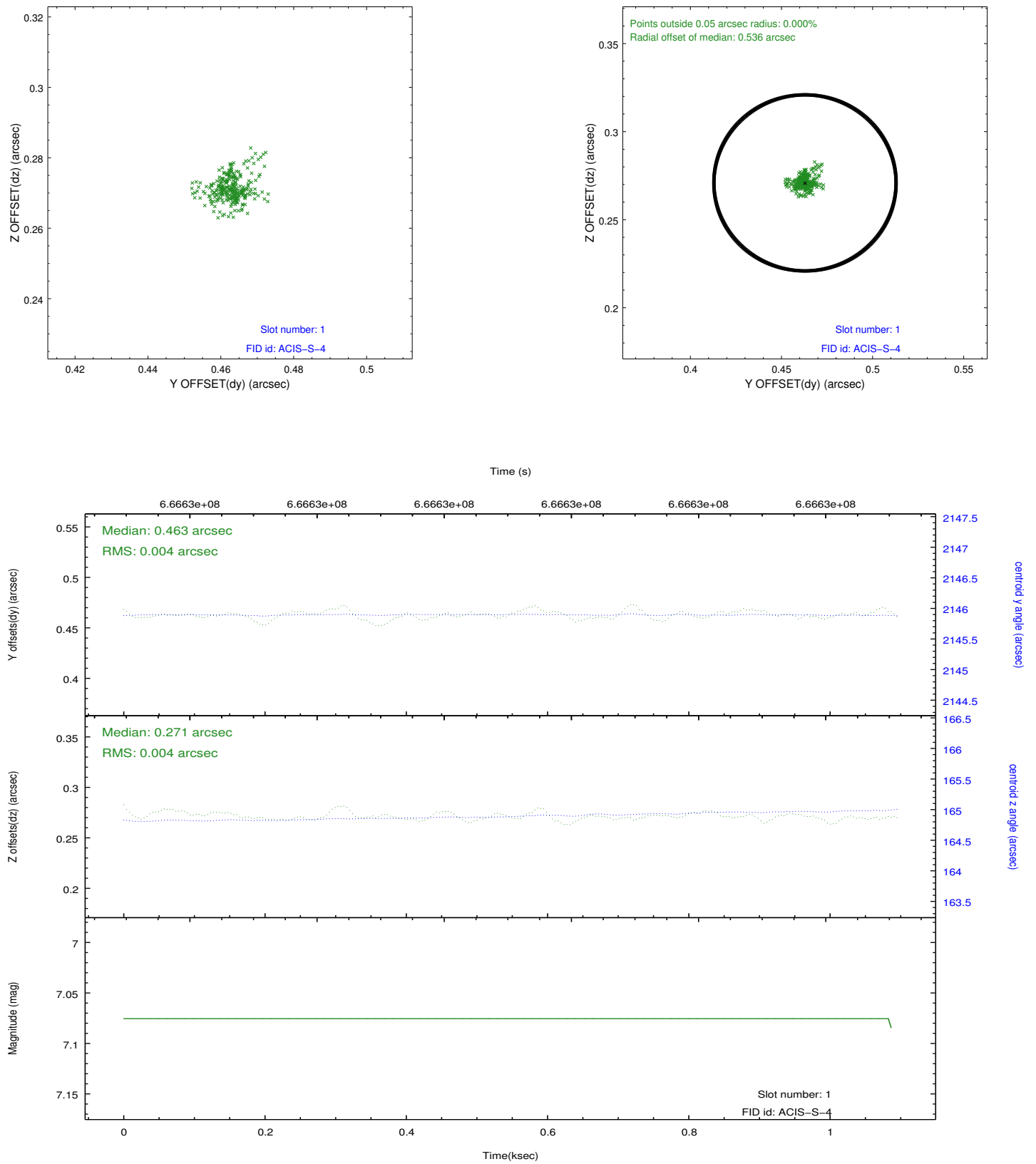


2.5 FID Slots

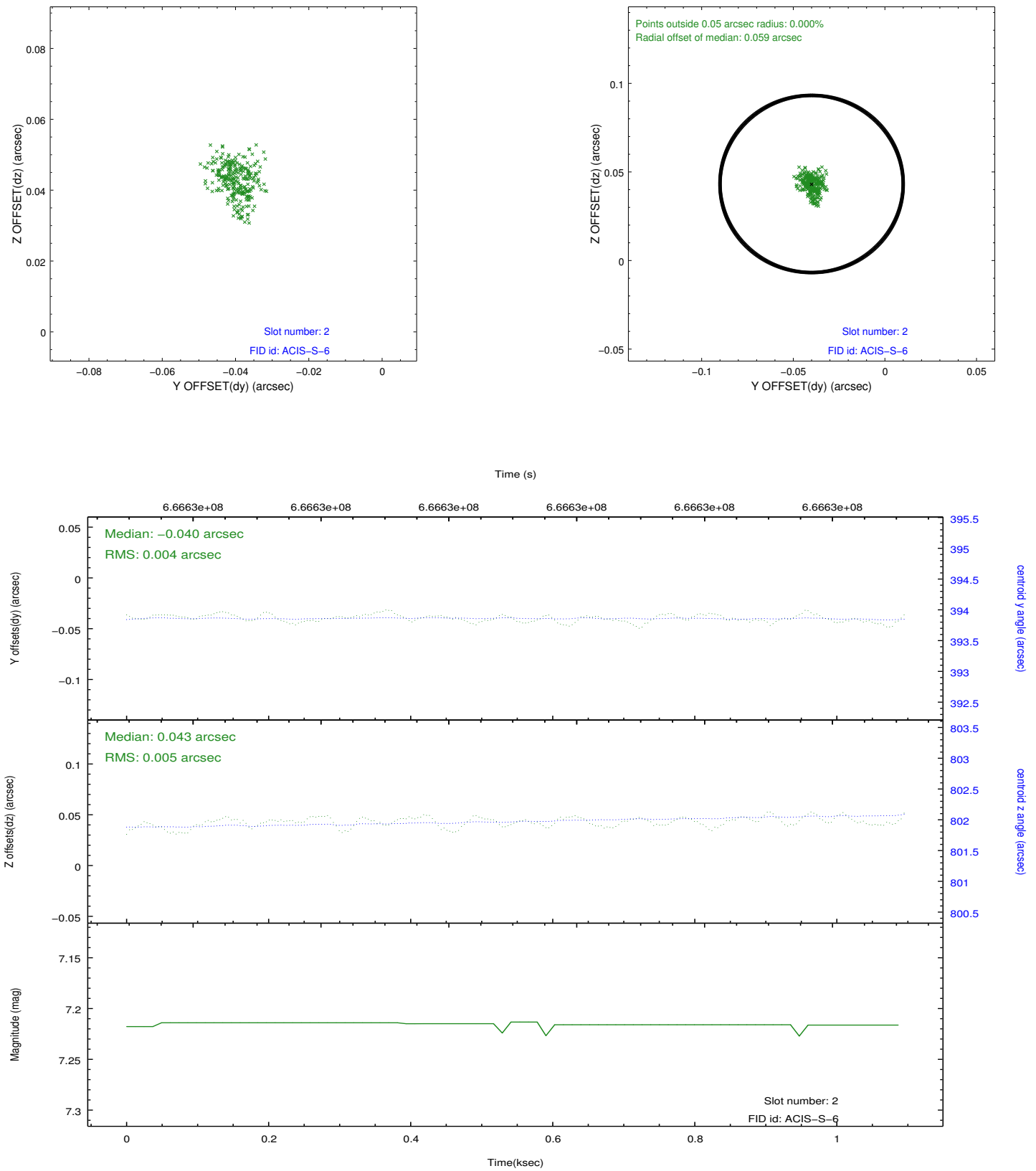
2.5.1 Slot 0



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)	2019.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0943000085354

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.