

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18462 - L2 Version 1
Chandra X-Ray Center

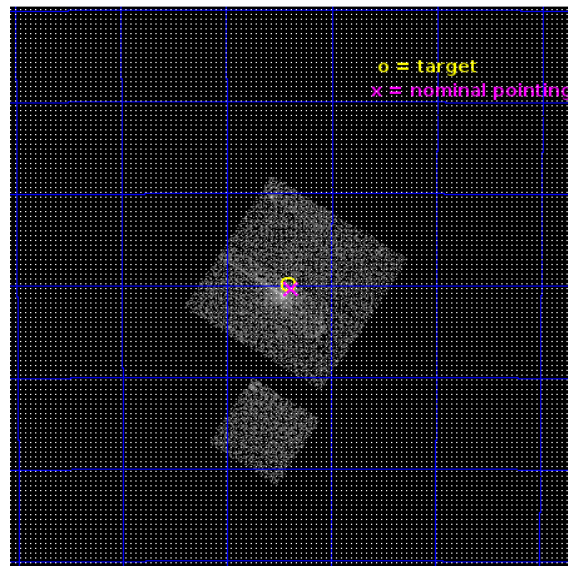
L2 Processing Date : Sep 20 2016

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1 Front

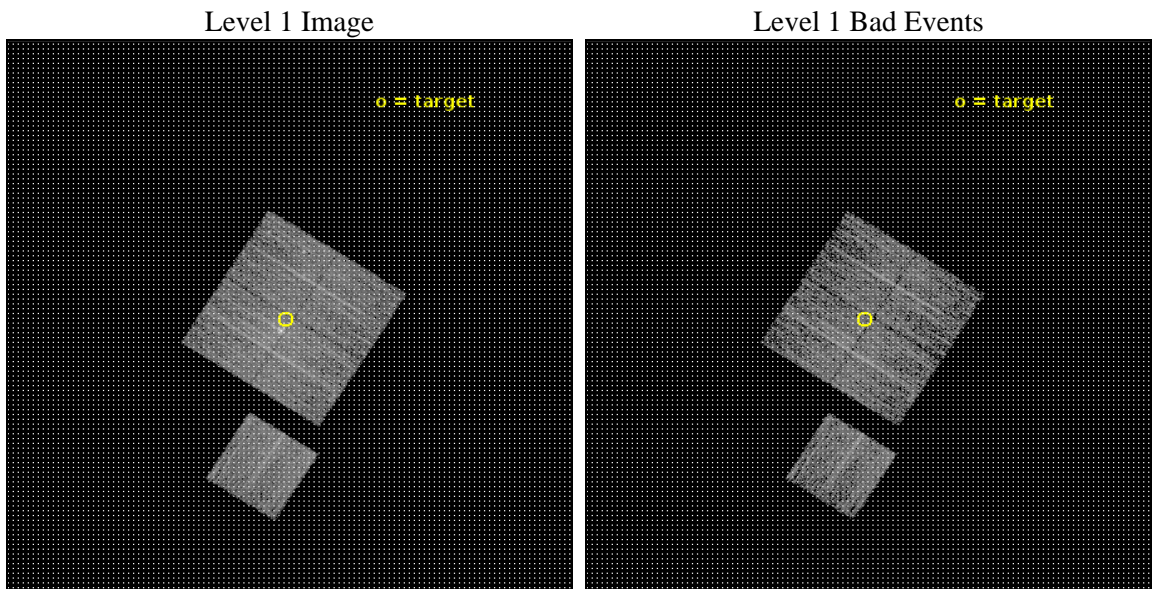
seq_num	703290	Sequence number
obs_id	18462	Observation id
title	Ongoing monitoring of the jet of Centaurus A	Proposal title
observer	Ralph Kraft	Principal investigator
object	Centaurus A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.35287	Observer's specified target RA [deg]
dec_targ	-42.998705	Observer's specified target Dec [deg]
ra_nom	201.34553153075	Nominal RA [deg]
dec_nom	-43.006444088935	Nominal Dec [deg]
roll_nom	212.40295339834	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5074.7000391483	Sum of GTIs [s]
livetime	5008.395347197	Livetime [s]
ontime0	5074.7000391483	Sum of GTIs [s]
ontime1	5074.7000391483	Sum of GTIs [s]
ontime2	5074.7000391483	Sum of GTIs [s]
ontime3	5074.7000391483	Sum of GTIs [s]
ontime6	5074.7000391483	Sum of GTIs [s]
l2events	23400	Number of level 2 events



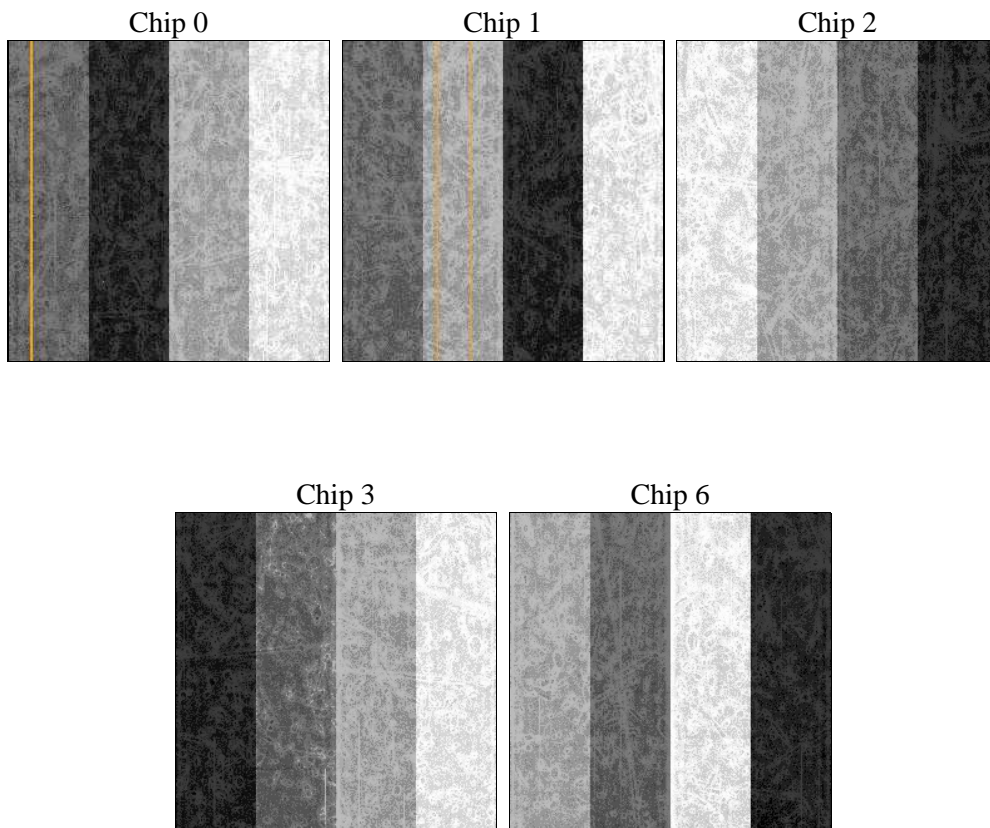
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	5074.7000391483	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	5074.7000391483	Sum of GTIs [s]
date	2016-09-20T16:55:19	Date and time of file creation	ontime1	5074.7000391483	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5074.7000391483	Sum of GTIs [s]
			ontime3	5074.7000391483	Sum of GTIs [s]
			ontime6	5074.7000391483	Sum of GTIs [s]
			l1events	170676	Number of level 1 events

2.1.4 Events

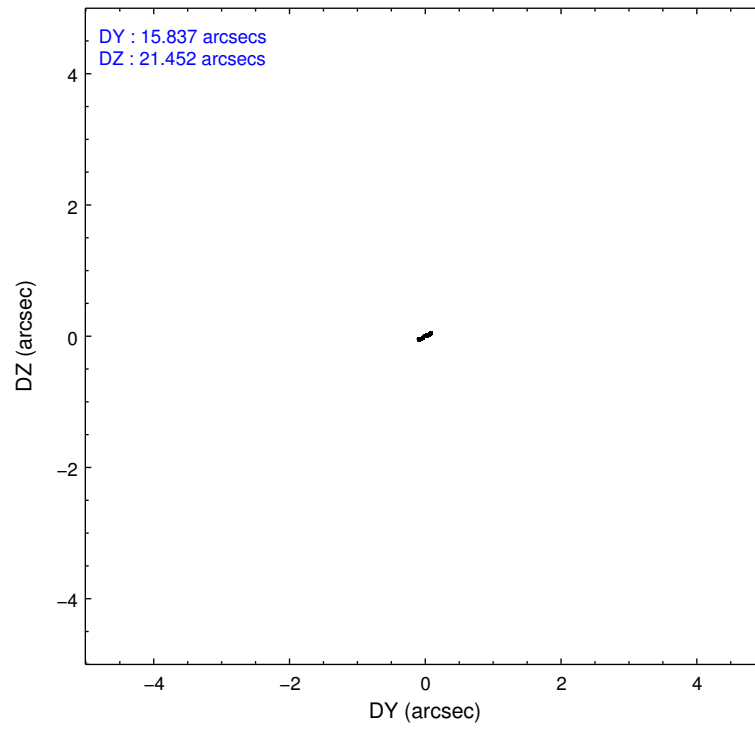
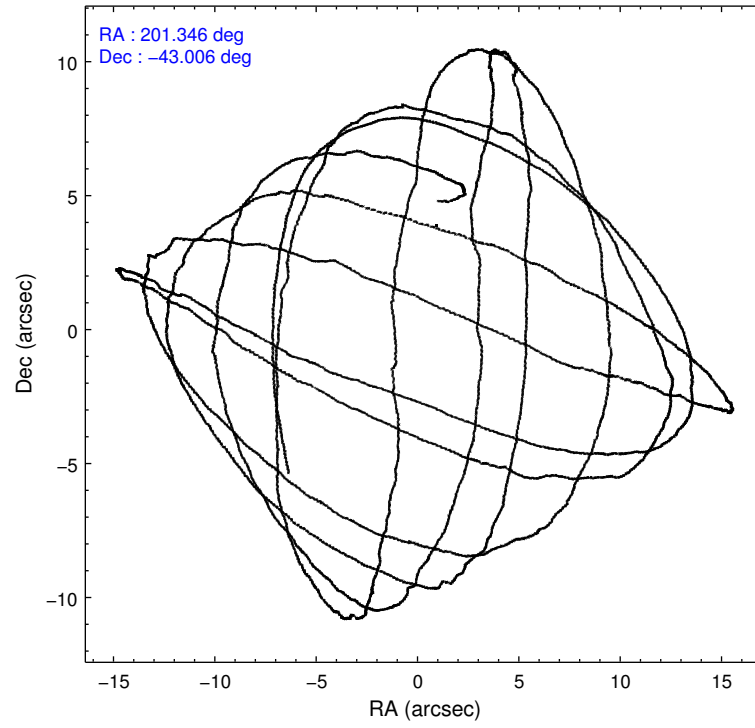
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	30117	31286	36505	38679	34089
rejected events	26145	26243	31132	30196	30096
rejected %	86%	83%	85%	78%	88%

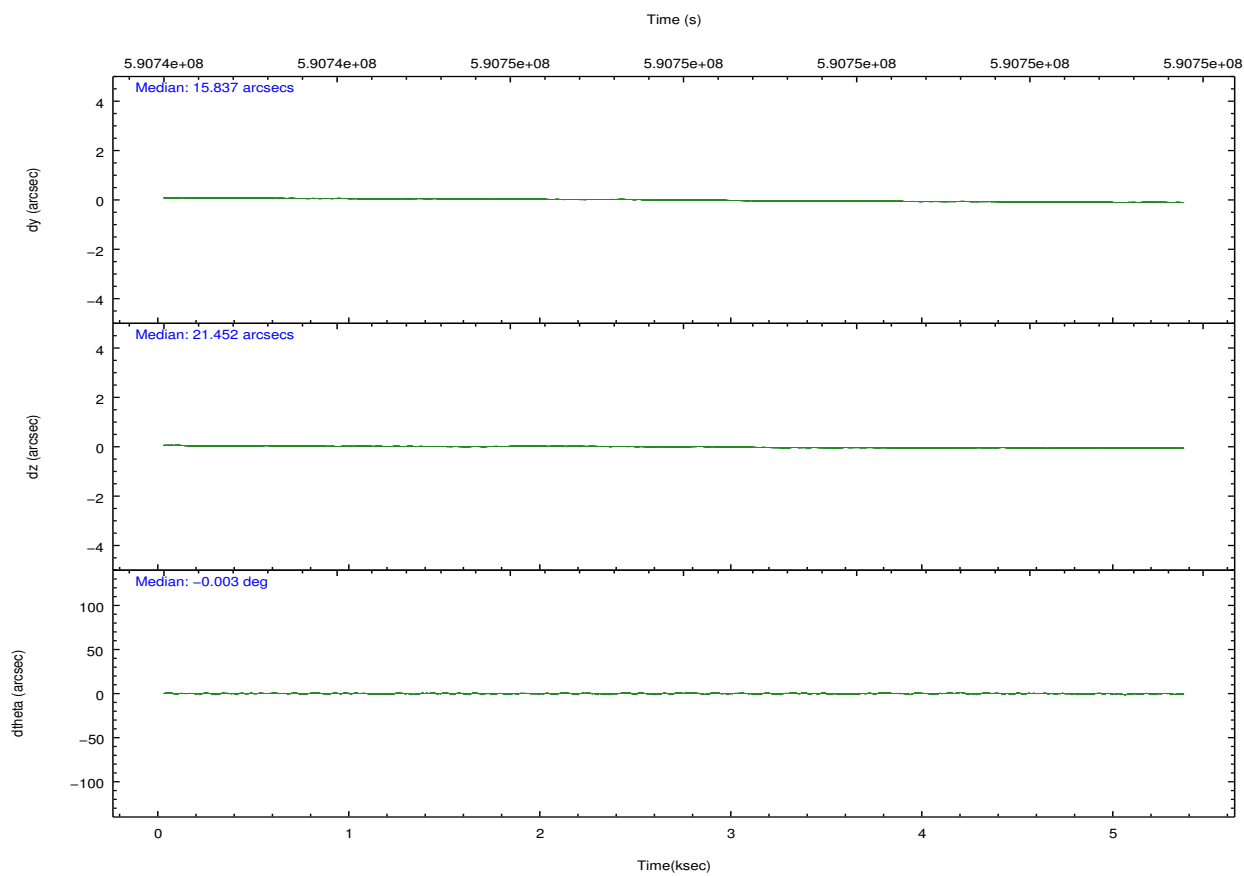
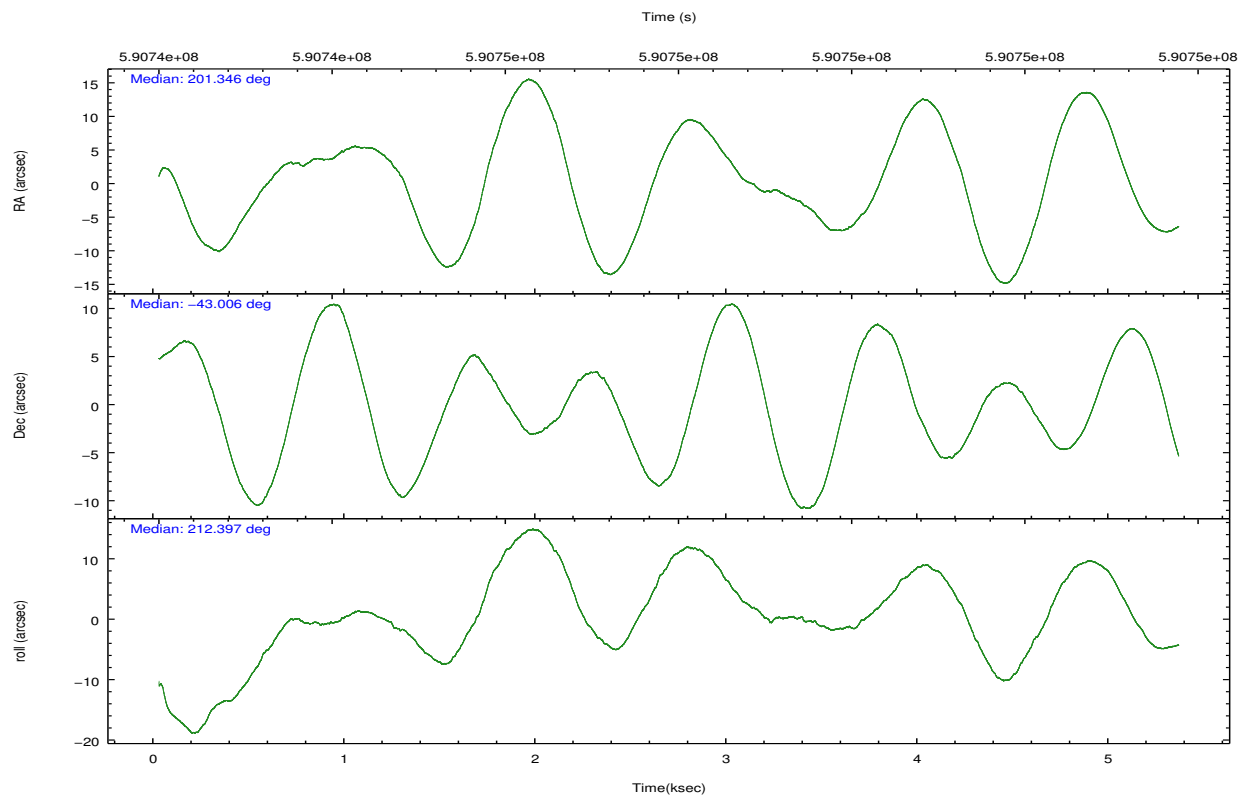
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1524	2156	2660	4703	1468
	5%	6%	7%	12%	4%
grade 1 events	10	33	22	142	12
	0%	0%	0%	0%	0%
grade 2 events	972	1119	1069	1339	914
	3%	3%	2%	3%	2%
grade 3 events	346	427	385	600	377
	1%	1%	1%	1%	1%
grade 4 events	385	424	443	585	357
	1%	1%	1%	1%	1%
grade 5 events	1421	1469	1385	1782	1589
	4%	4%	3%	4%	4%
grade 6 events	749	918	822	1261	879
	2%	2%	2%	3%	2%
grade 7 events	24710	24740	29719	28267	28493
	82%	79%	81%	73%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	201.362964	201.3455315307481	CCD I2 on	Y	Y
[deg] Pointing Dec	-42.982012	-43.00644408893501	CCD I3 on	Y	Y
[deg] Pointing Roll	212.206153	212.4029533983376	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	590744629.184000	590743608.51385	CCD S5 on	N	N
Observation start date	2016-09-20T07:42:41	2016-09-20T07:26:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	590749629.184000	590750695.36426	On-chip summing requested	N	N
Observation end date	2016-09-20T09:06:01	2016-09-20T09:24:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



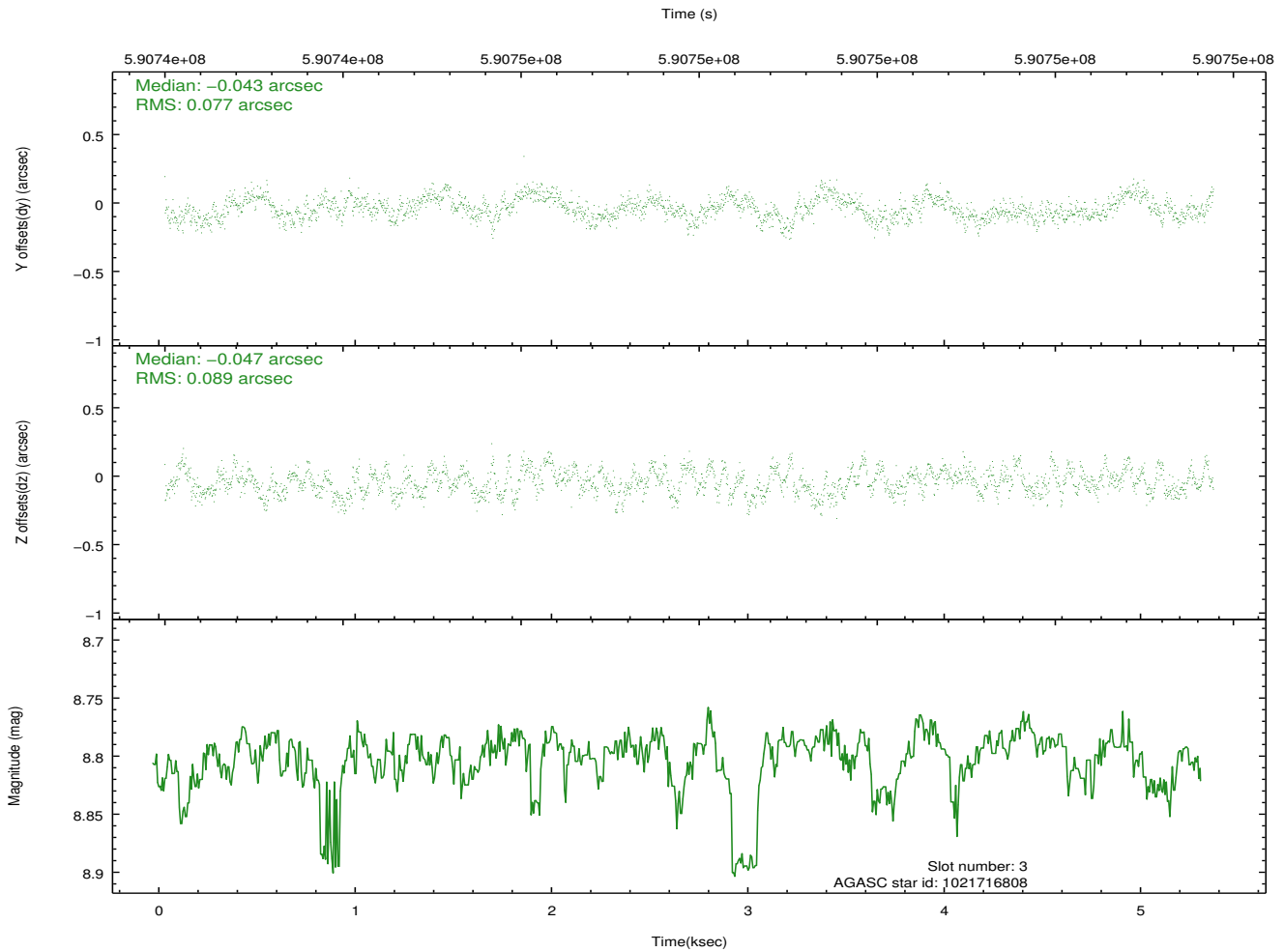
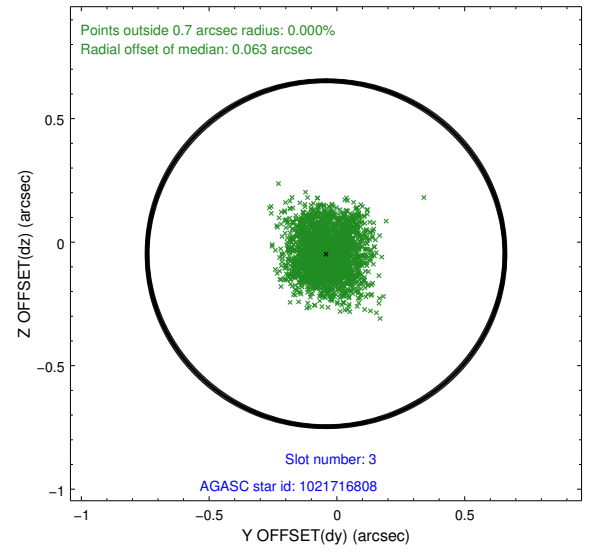
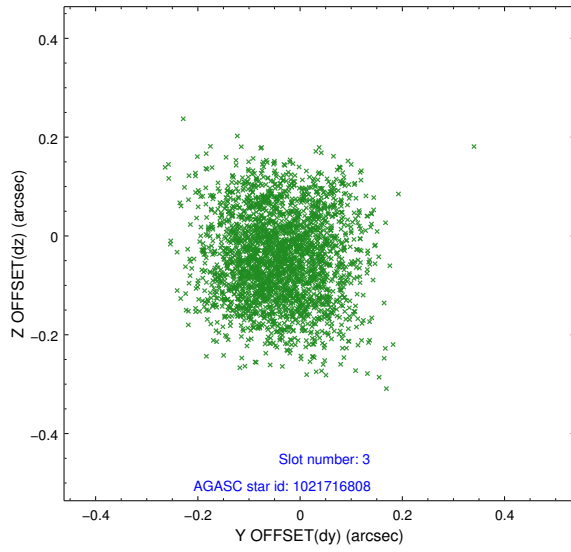


Slot Statistics

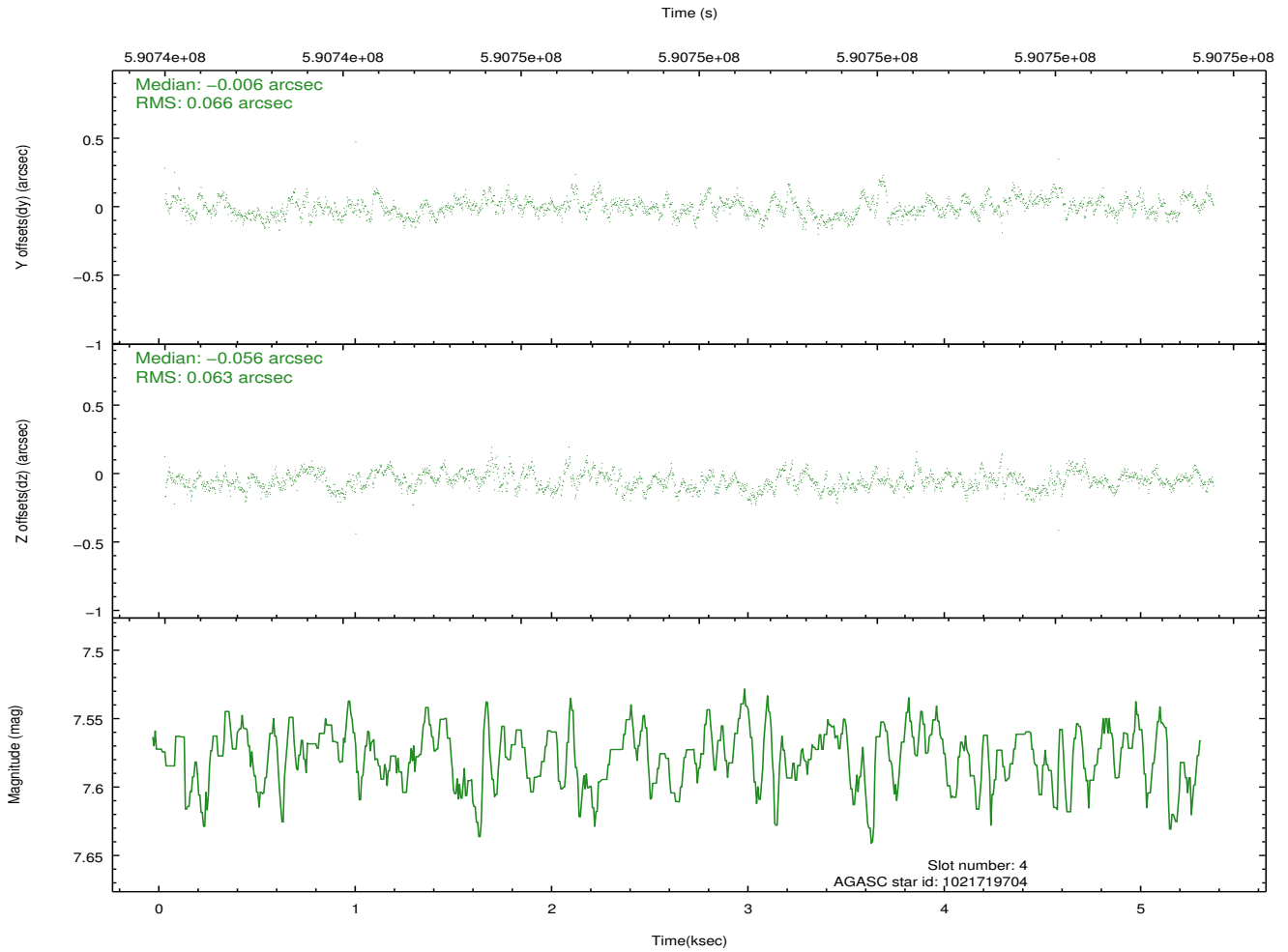
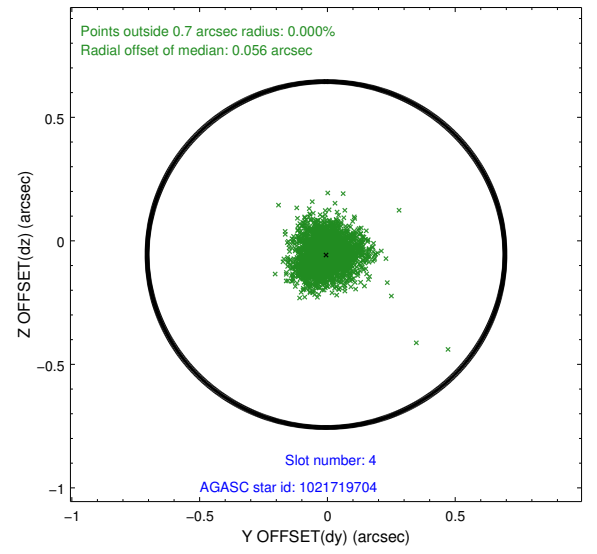
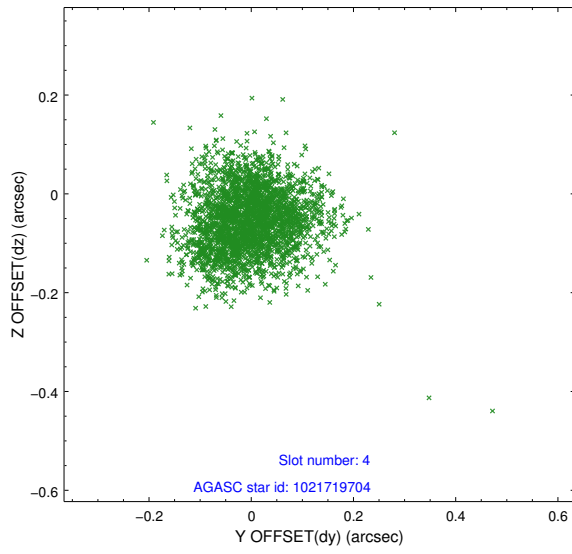
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.07	1303	0.095	-0.066	0.006	0.010	0.000000	0.000000	923.72	-845.26
1	FID		ACIS-I-5	7.07	1303	-0.345	0.056	0.006	0.010	0.000000	0.000000	-1824.25	1051.72
2	FID		ACIS-I-6	7.08	1303	0.158	0.080	0.006	0.010	0.000000	0.000000	388.04	1697.57
3	GUIDE	used	1021716808	8.80	2602	-0.043	-0.047	0.128	0.197	200.901189	-42.531395	174.72	-2022.22
4	GUIDE	used	1021719704	7.58	2606	-0.006	-0.056	0.096	0.153	200.511976	-43.050426	2032.03	-975.06
5	GUIDE	used	1021721304	9.62	2598	0.095	0.048	0.162	0.254	201.117326	-42.480412	-408.58	-1874.63
6	GUIDE	used	1021721672	9.53	2605	-0.094	-0.071	0.149	0.237	201.740358	-43.079729	-650.72	828.04
7	GUIDE	used	1022235840	9.42	2602	0.055	0.117	0.152	0.253	201.679306	-43.544276	381.18	2154.91

2.4 Star Slots

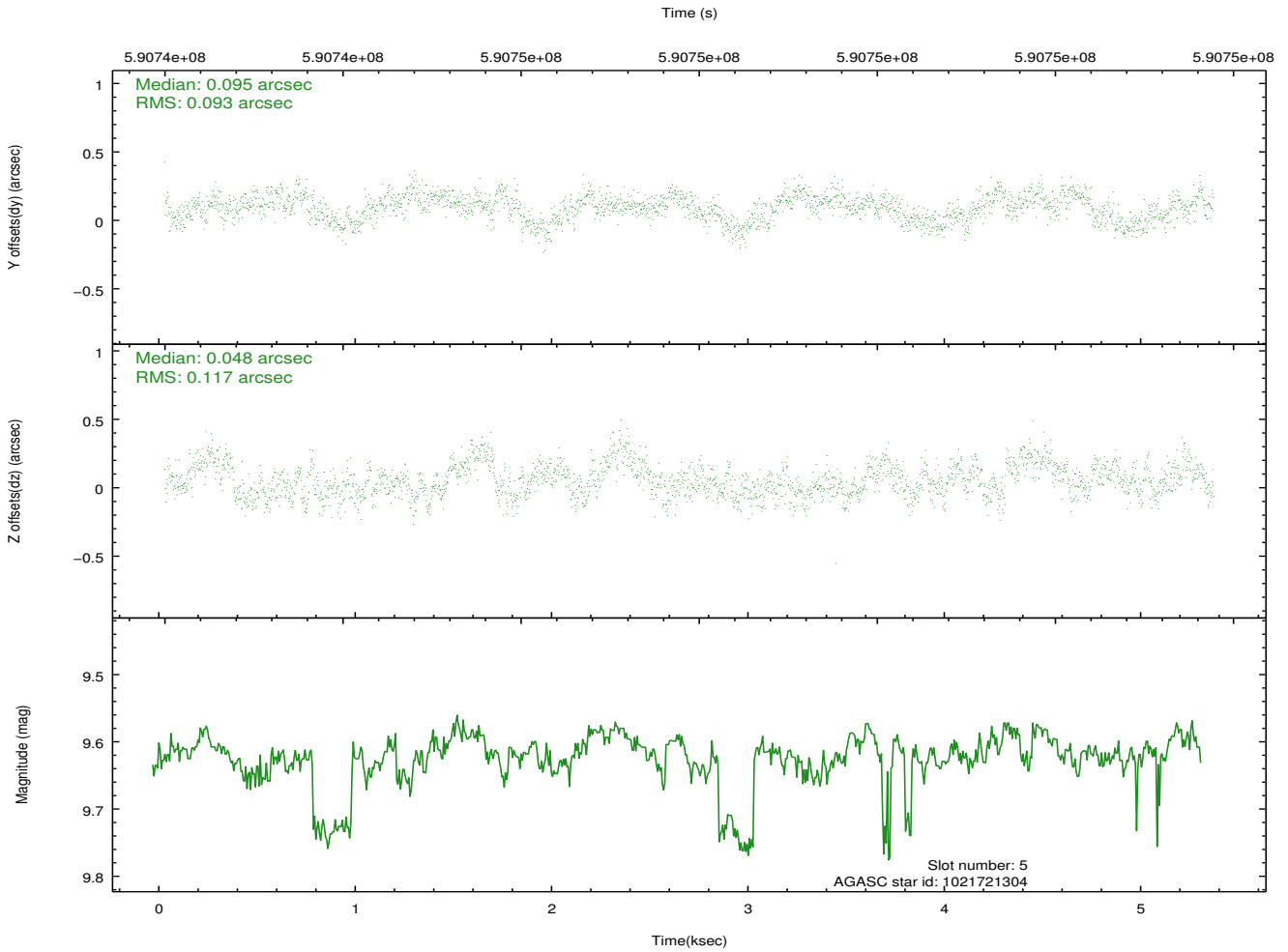
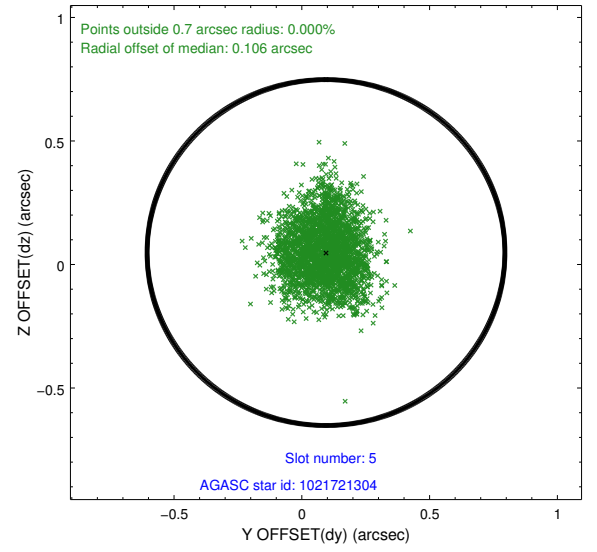
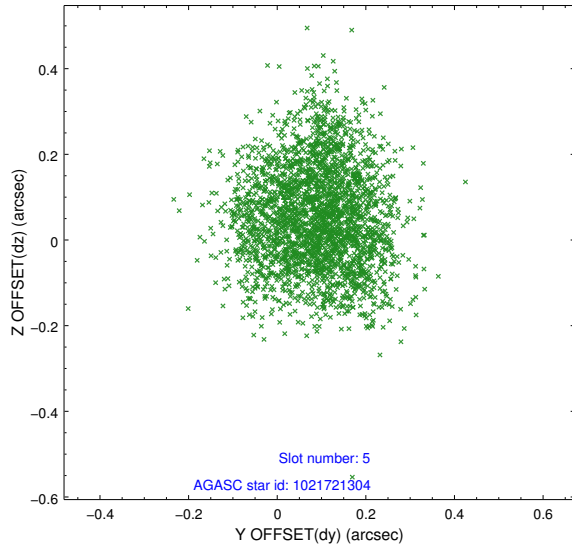
2.4.1 Slot 3



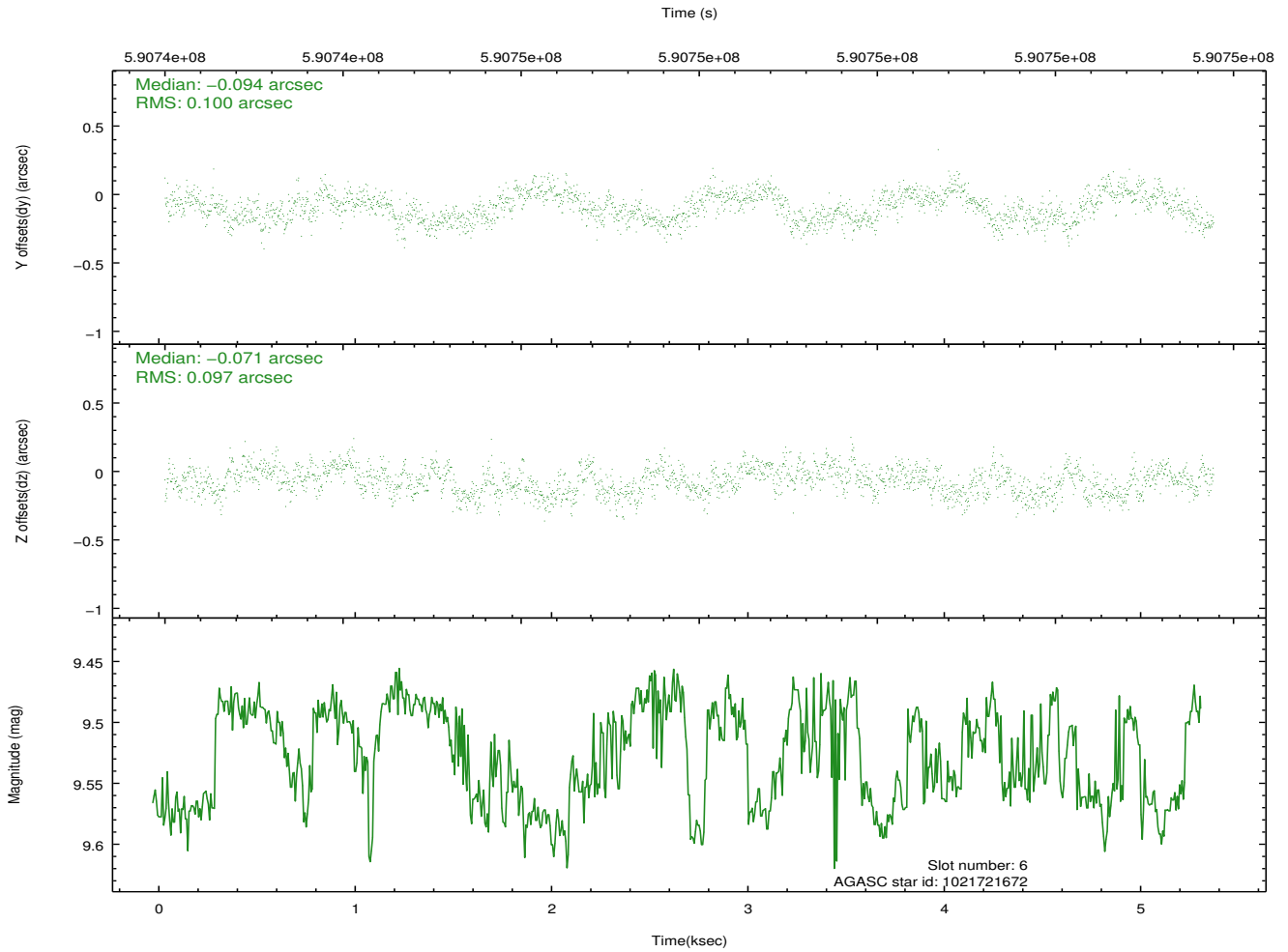
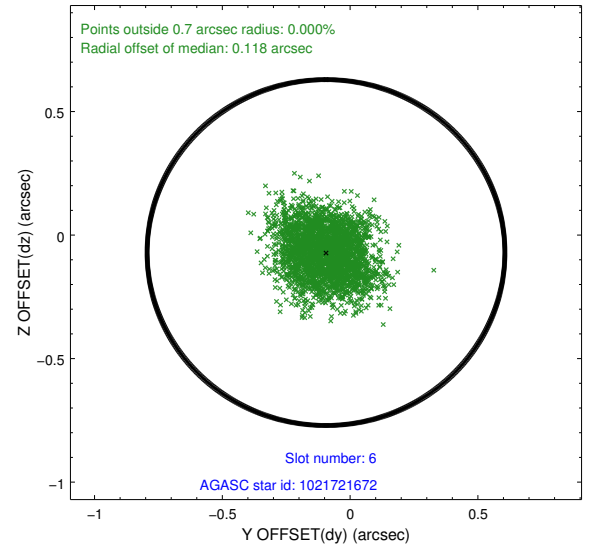
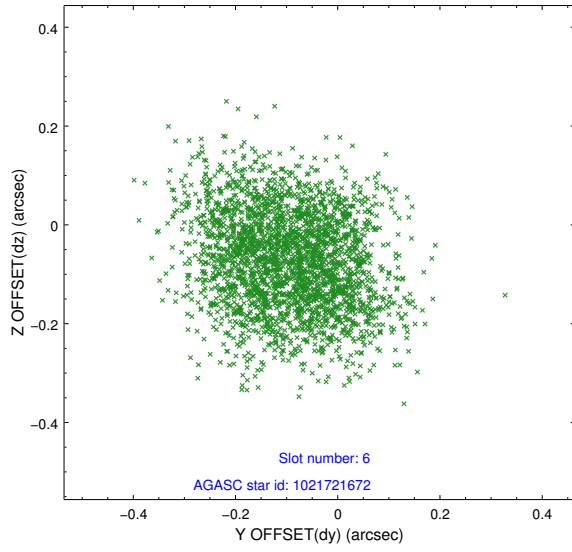
2.4.2 Slot 4



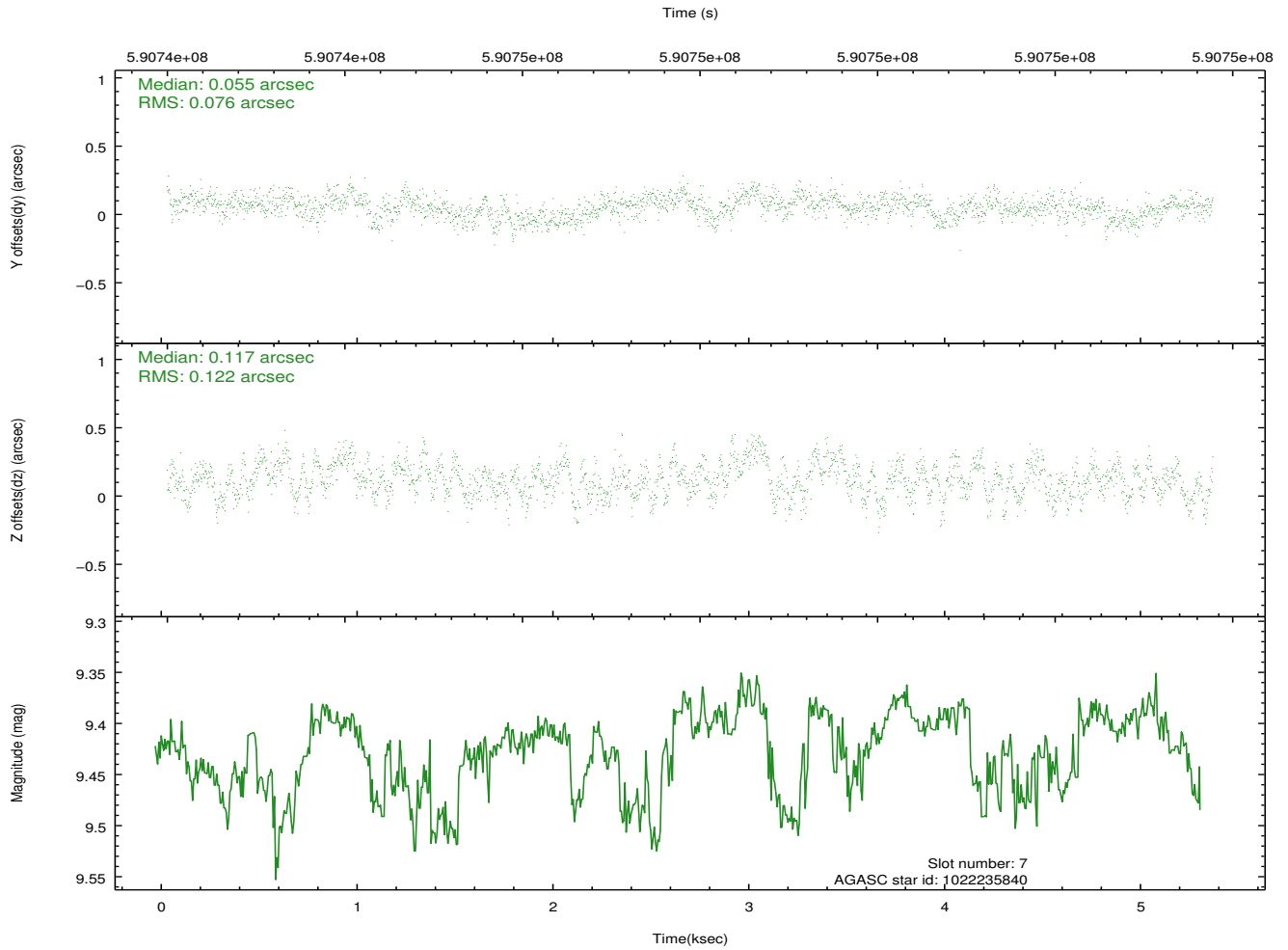
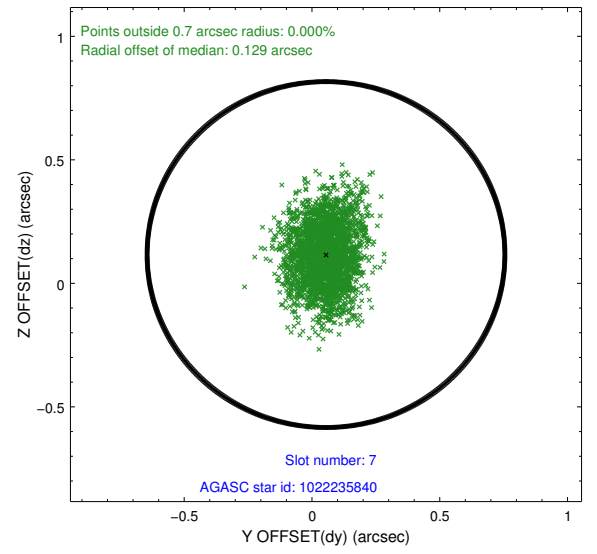
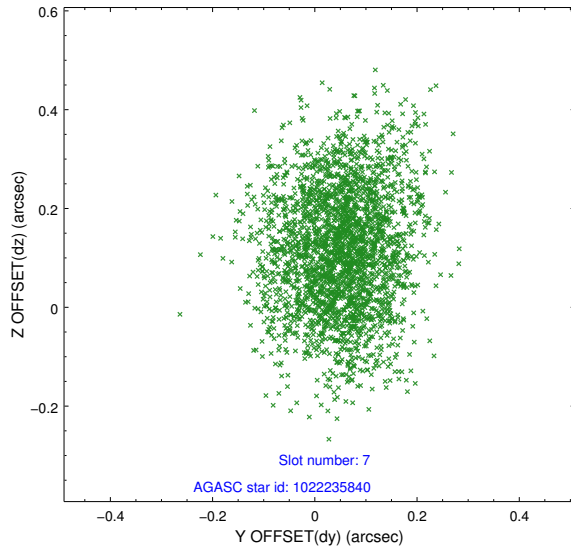
2.4.3 Slot 5



2.4.4 Slot 6

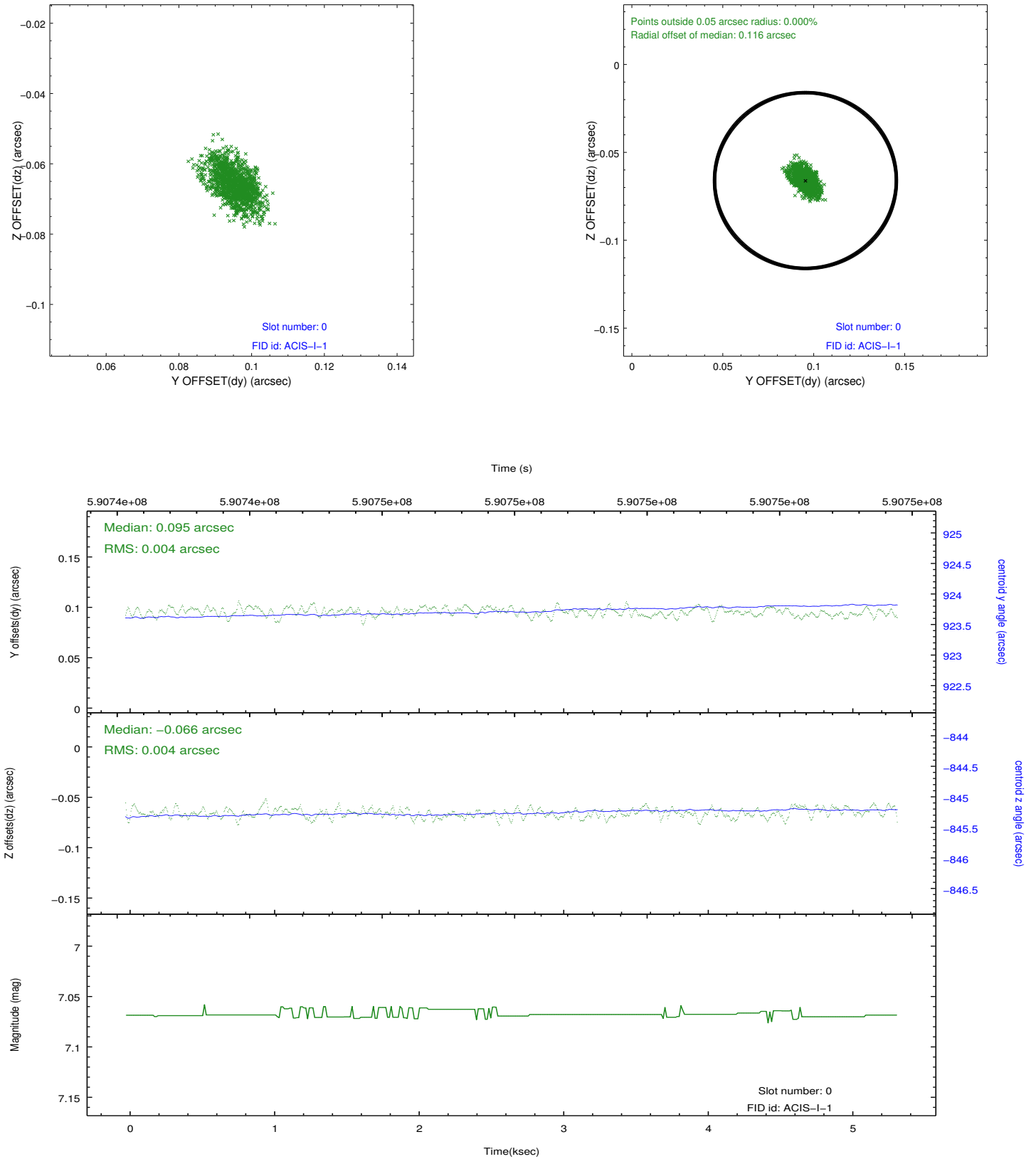


2.4.5 Slot 7

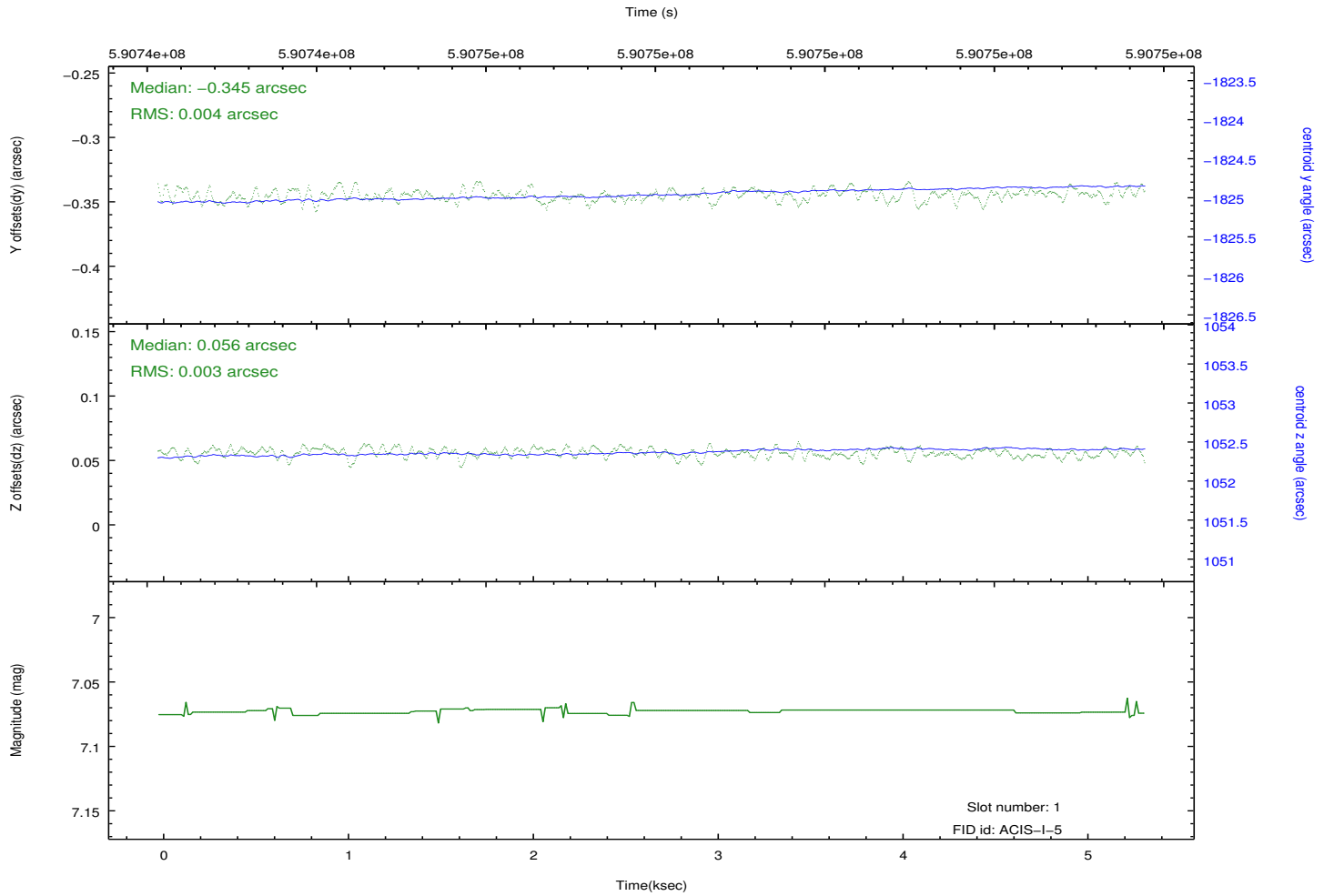
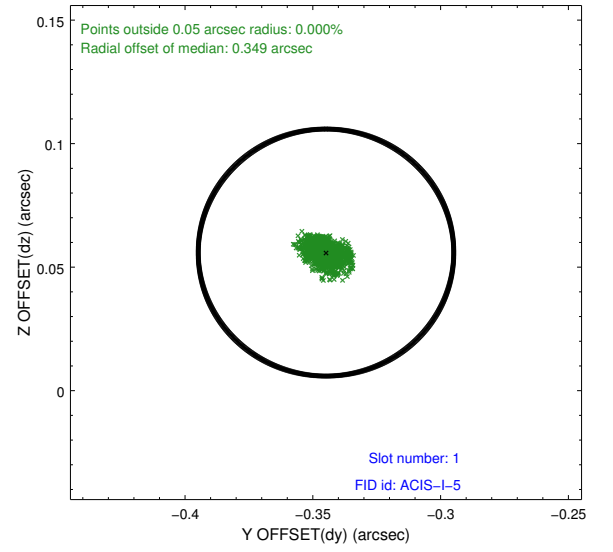
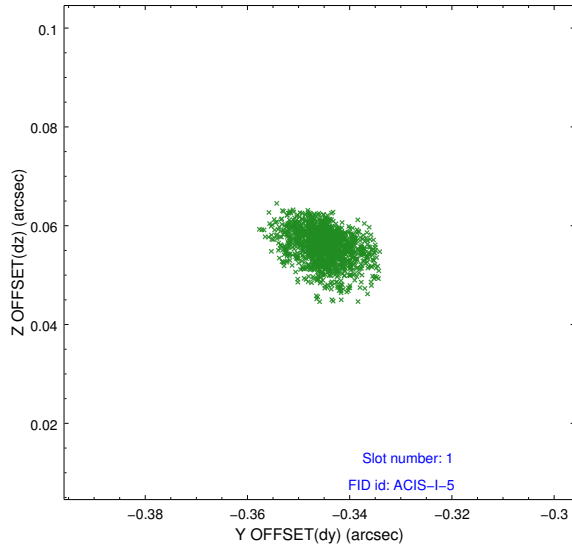


2.5 FID Slots

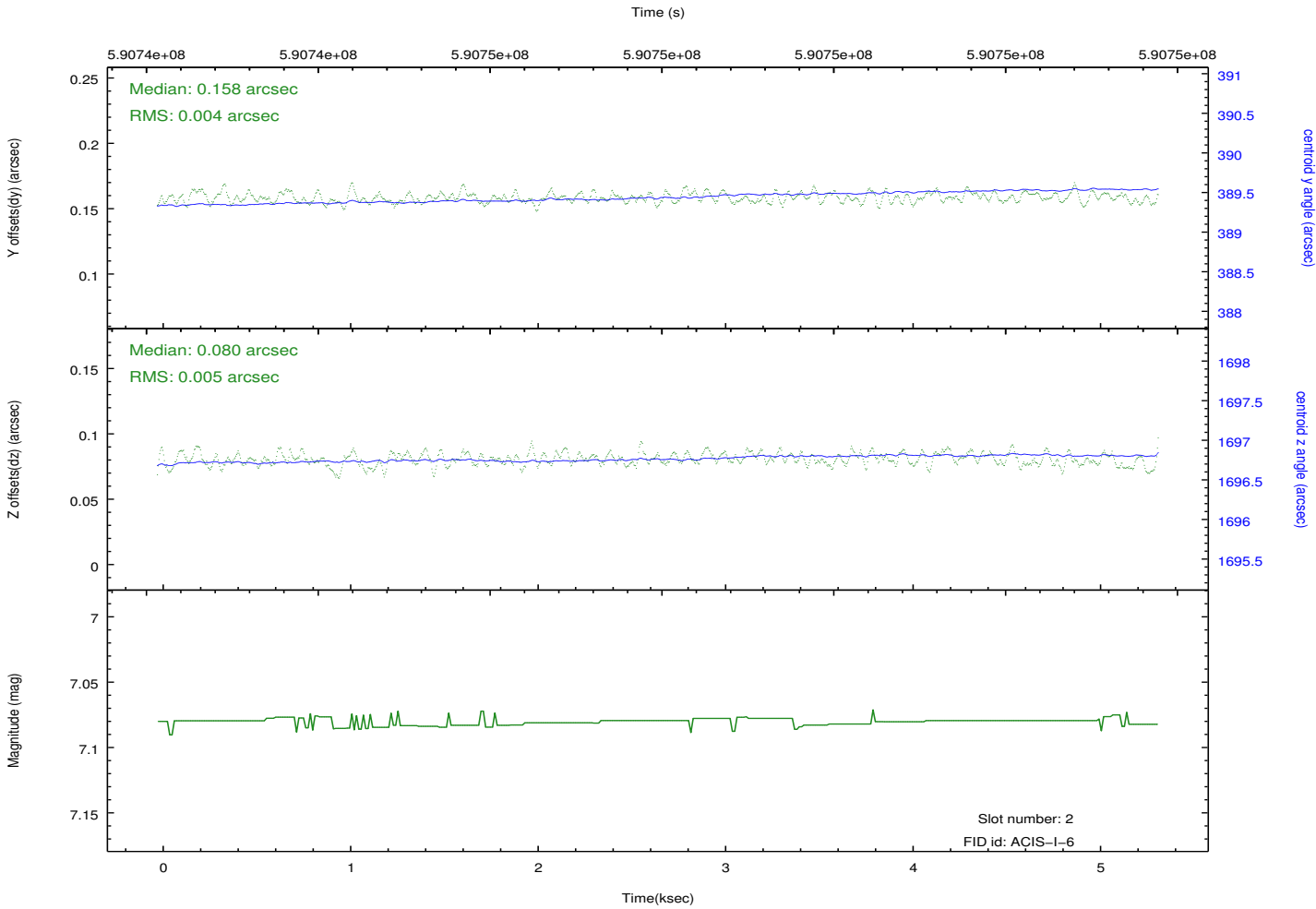
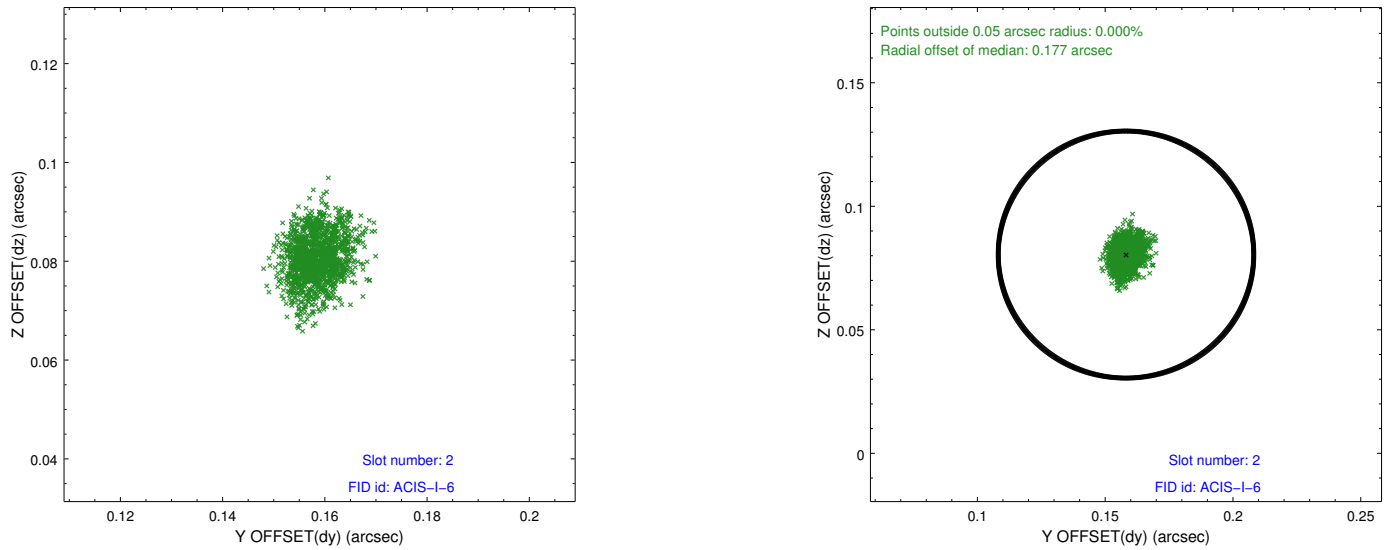
2.5.1 Slot 0



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)	2016.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0747000391483

A.2 Comments