

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18723 - L2 Version 1
Chandra X-Ray Center

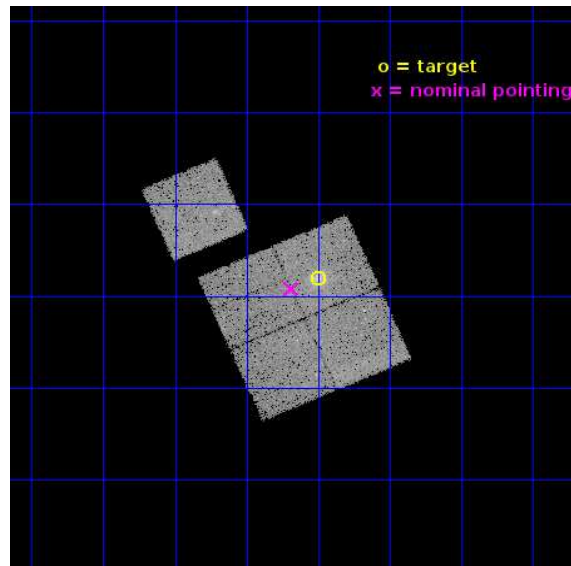
L2 Processing Date : Nov 30 2015

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1 Front

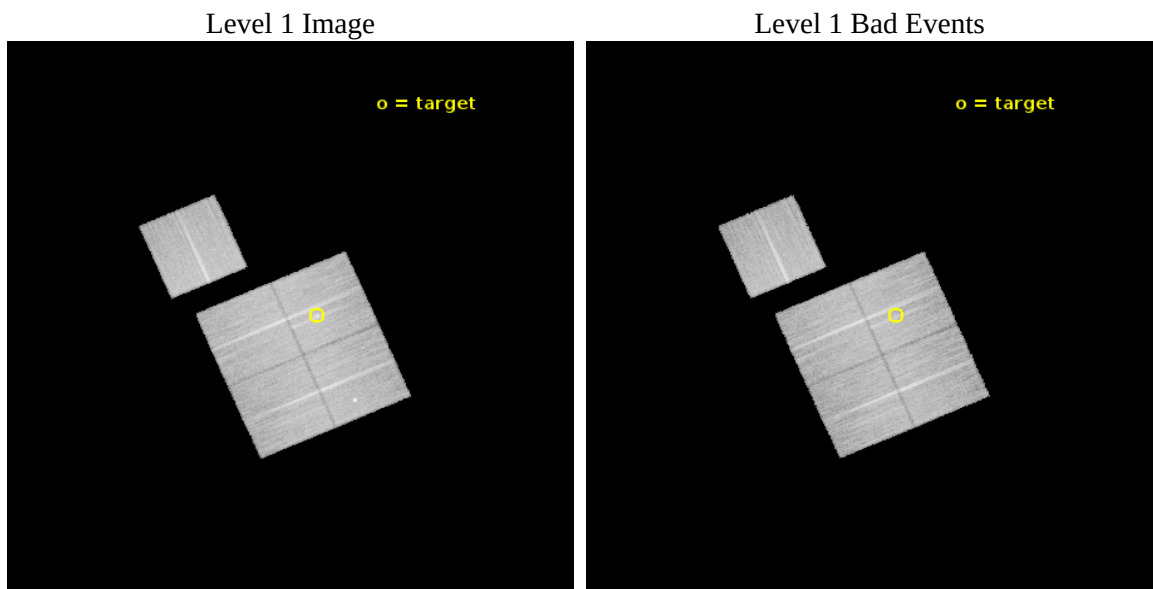
seq_num	801592	Sequence number
obs_id	18723	Observation id
title	Testing the effect of quasar-mode feedback on the intracluster medium	Proposal title
observer	Dr Matt Hilton	Principal investigator
object	ACT-CL J0320.4+0032	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.124167	Observer's specified target RA [deg]
dec_targ	0.531556	Observer's specified target Dec [deg]
ra_nom	50.171715317066	Nominal RA [deg]
dec_nom	0.51333633678561	Nominal Dec [deg]
roll_nom	336.50826348502	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26234.64502418	Sum of GTIs [s]
livetime	25891.870073275	Livetime [s]
ontime0	26240.804064631	Sum of GTIs [s]
ontime1	26243.986094832	Sum of GTIs [s]
ontime2	26237.745064378	Sum of GTIs [s]
ontime3	26234.64502418	Sum of GTIs [s]
ontime6	26243.904014826	Sum of GTIs [s]
l2events	76674	Number of level 2 events



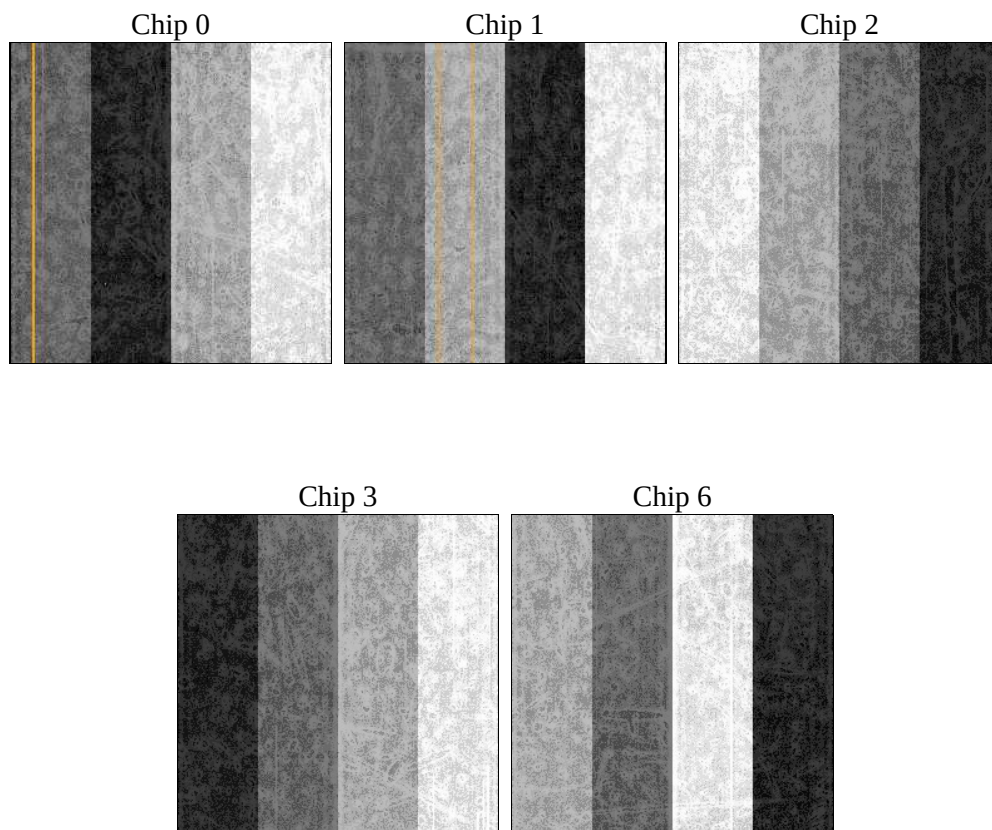
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26181.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	26234.64502418	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	26240.804064631	Sum of GTIs [s]
date	2015-11-30T12:17:38	Date and time of file creation	ontime1	26243.986094832	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26237.745064378	Sum of GTIs [s]
			ontime3	26234.64502418	Sum of GTIs [s]
			ontime6	26243.904014826	Sum of GTIs [s]
			l1events	748570	Number of level 1 events

2.1.4 Events

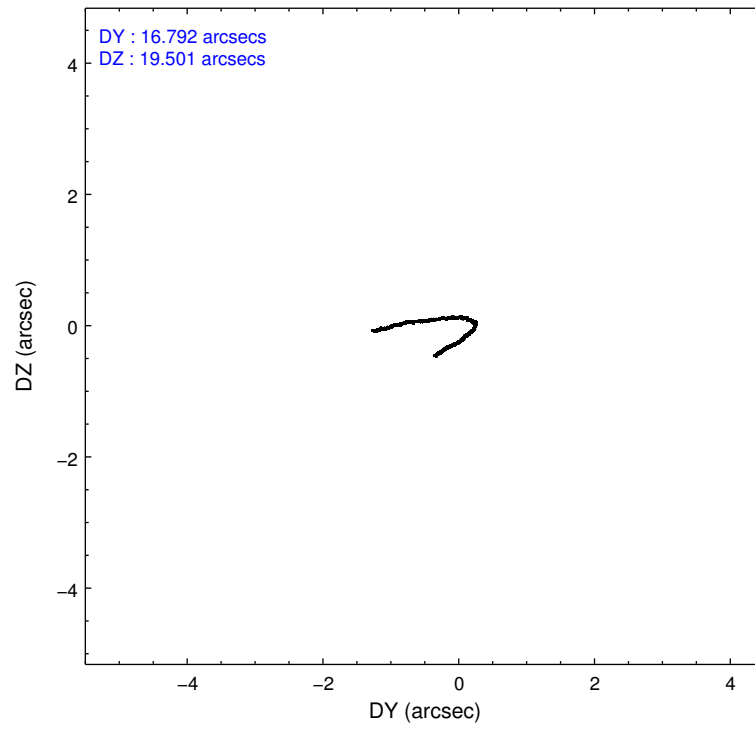
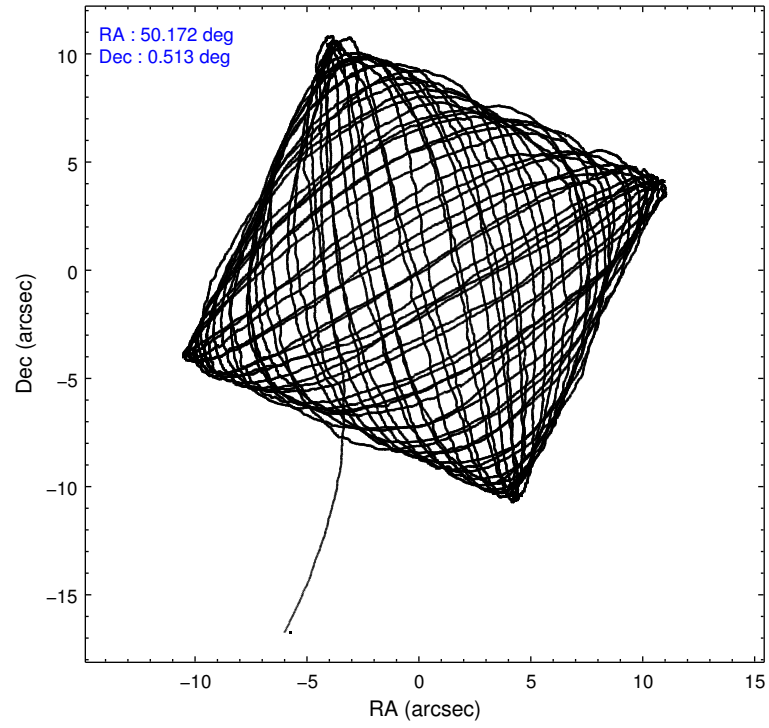
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	140225	146374	153767	153211	154993	grade 0 events	5881	8109	6058	7946	6084
rejected events	123047	125439	137132	134179	136966		4%	5%	3%	5%	3%
rejected %	87%	85%	89%	87%	88%	grade 1 events	69	92	77	100	69
							0%	0%	0%	0%	0%
						grade 2 events	4193	4711	3947	3895	4048
							2%	3%	2%	2%	2%
						grade 3 events	1795	1844	1656	1865	1829
							1%	1%	1%	1%	1%
						grade 4 events	1646	1890	1743	1786	1731
							1%	1%	1%	1%	1%
						grade 5 events	6941	7087	6245	7822	7494
							4%	4%	4%	5%	4%
						grade 6 events	3669	4386	3235	3547	4341
							2%	2%	2%	2%	2%
						grade 7 events	116031	118255	130806	126250	129397
							82%	80%	85%	82%	83%

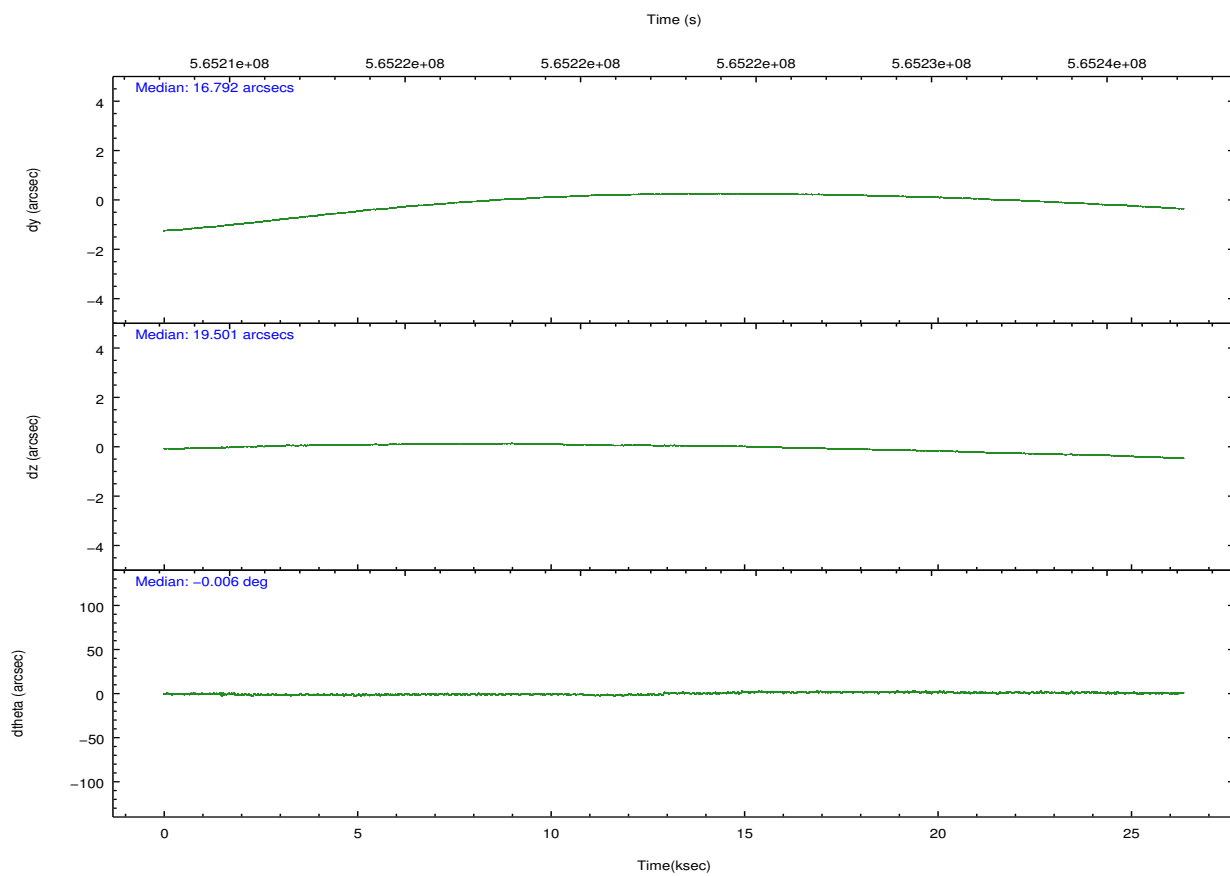
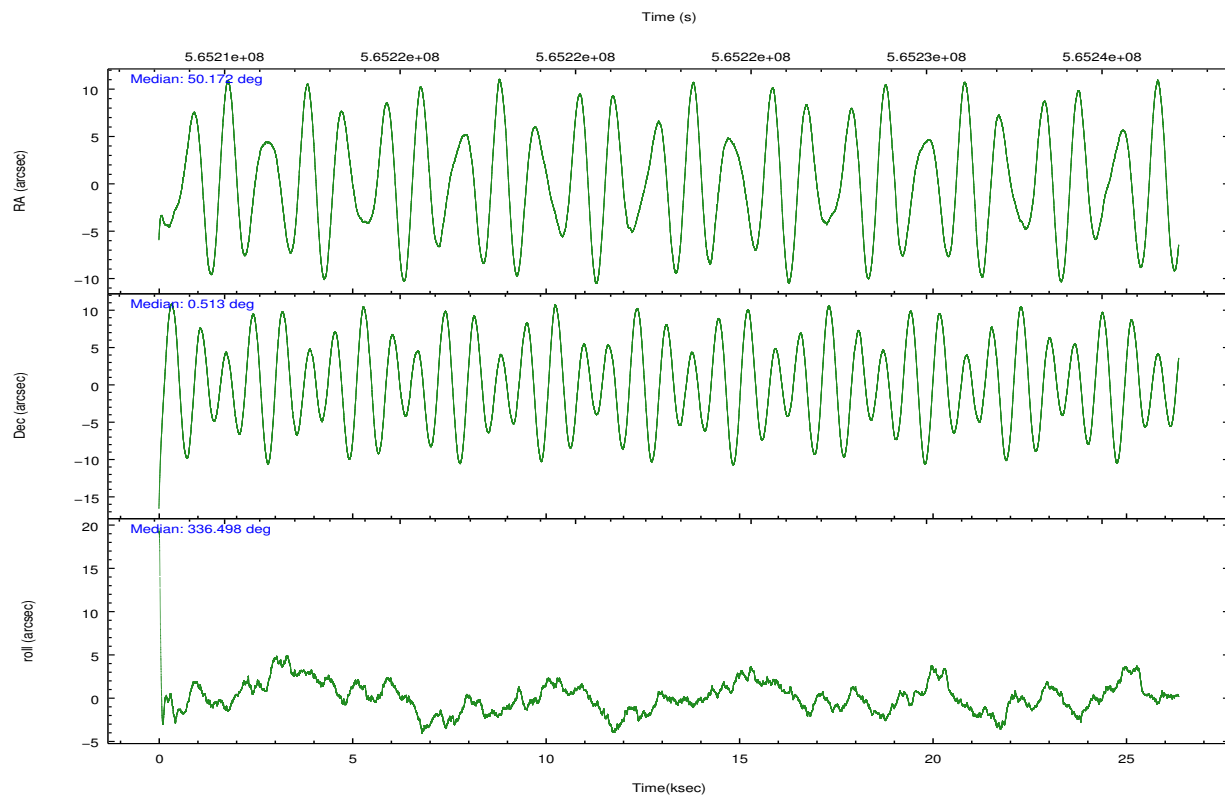
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	50.144321	50.17171531706639
[deg] Pointing Dec	0.510104	0.5133363367856146
[deg] Pointing Roll	336.299810	336.5082634850177
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.792463	-225.7829997647864
[mm] SIM translation stage offset	-7.8	-7.809453238143249
[s] Observation start time (MET)	565209639.184000	565208683.09447
Observation start date	2015-11-29T18:39:31	2015-11-29T18:24:43
[s] Observation end time (MET)	565235820.184000	565236978.2210799
Observation end date	2015-11-30T01:55:52	2015-11-30T02:16:18
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



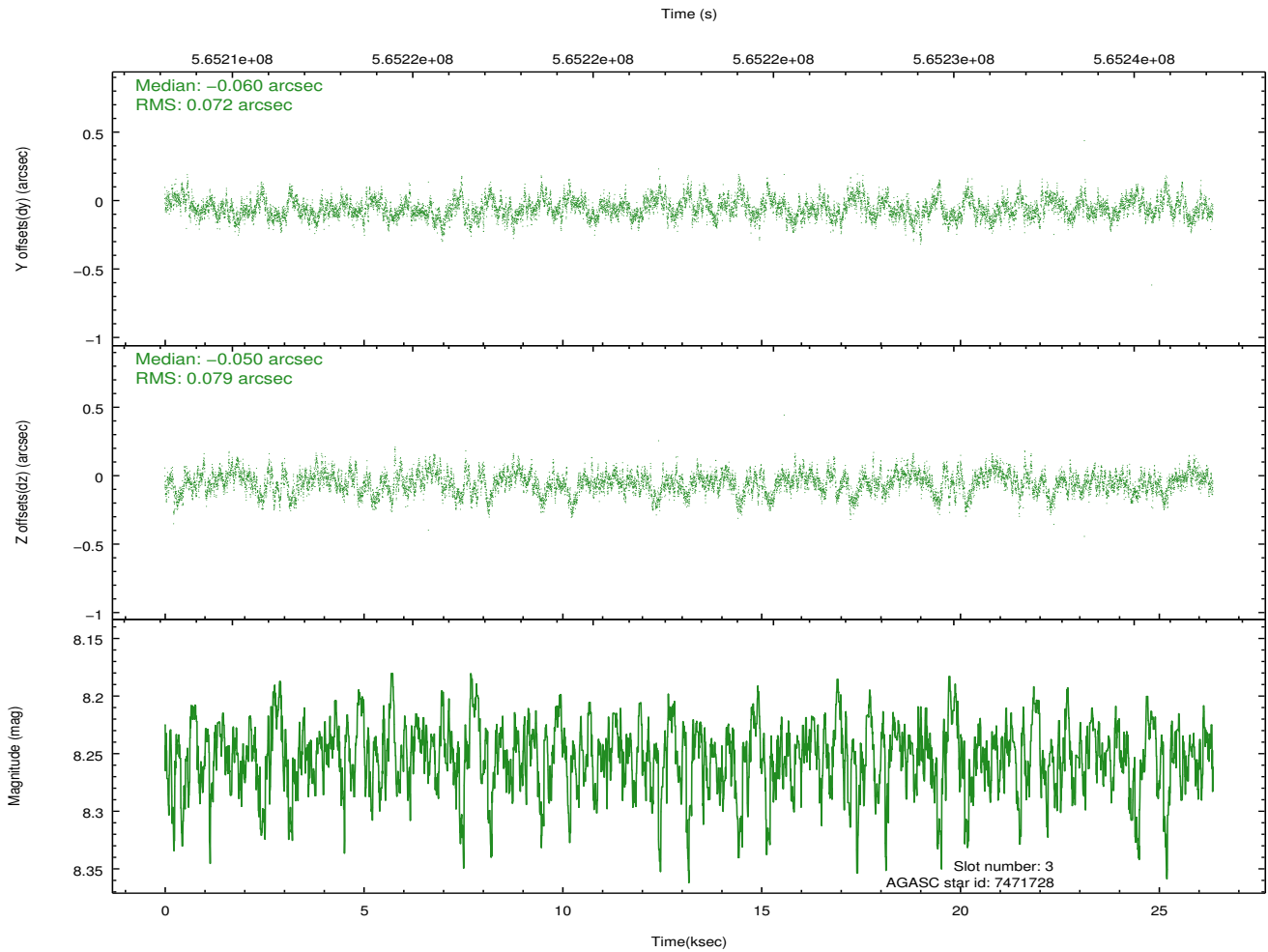
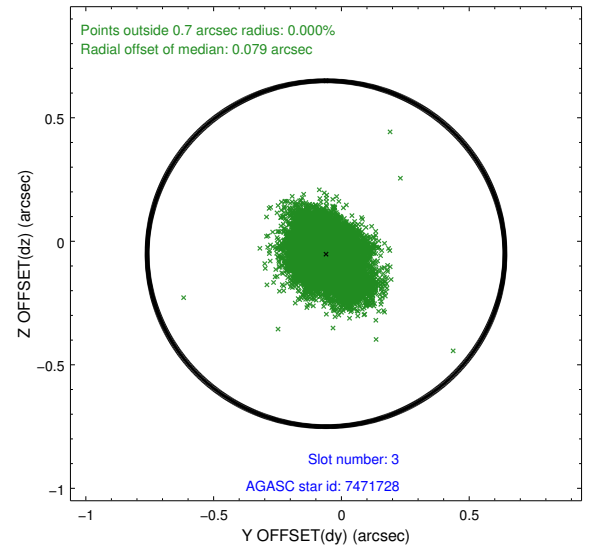
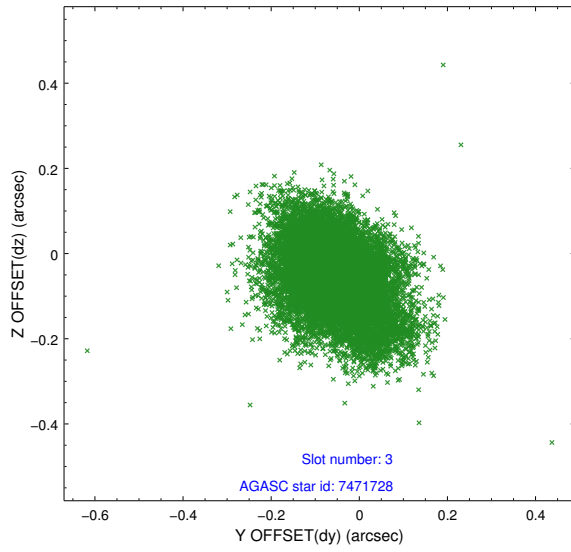


Slot Statistics

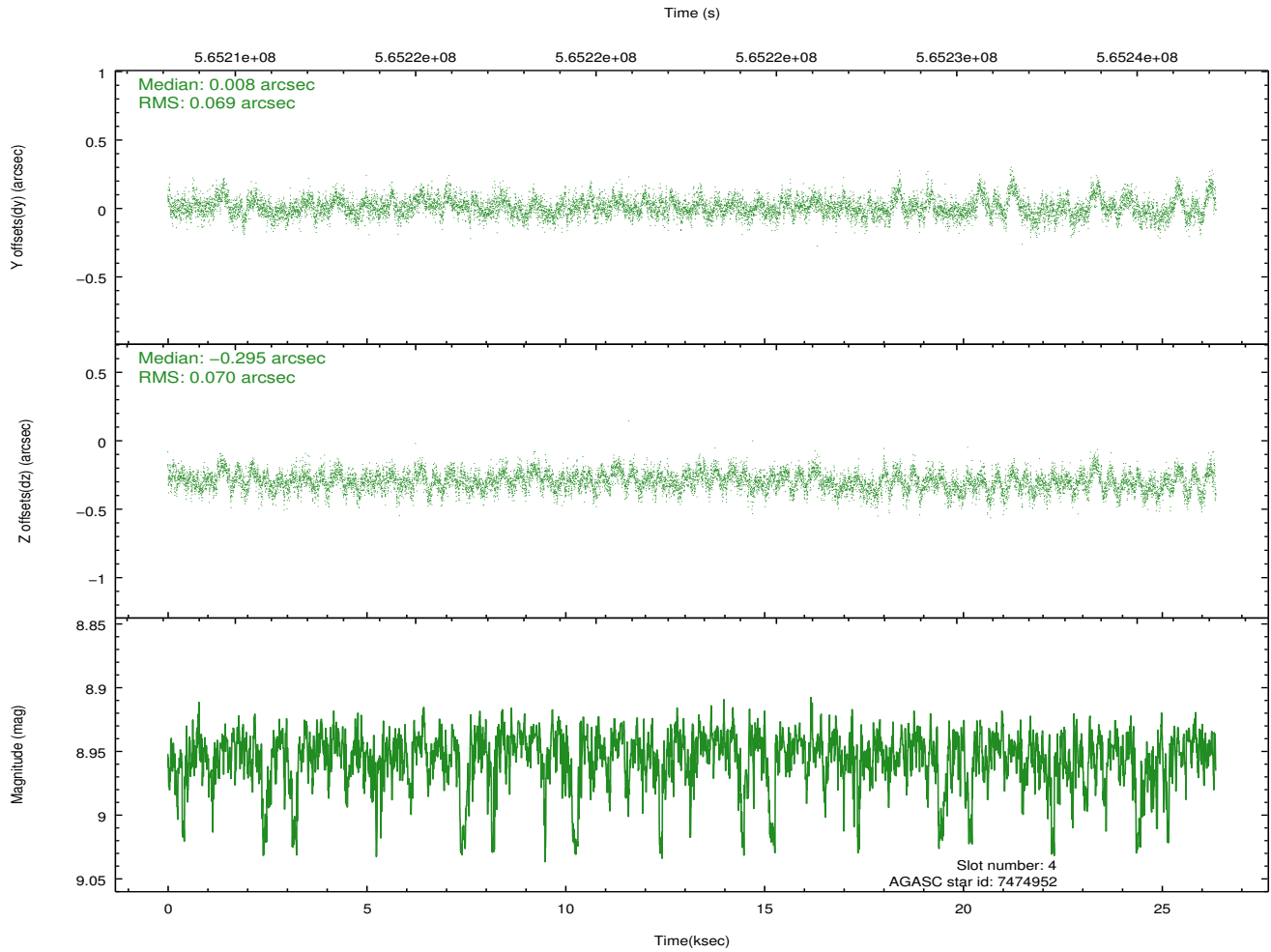
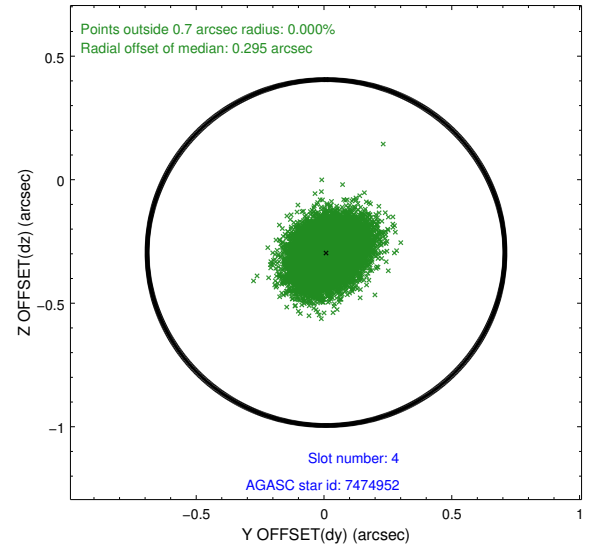
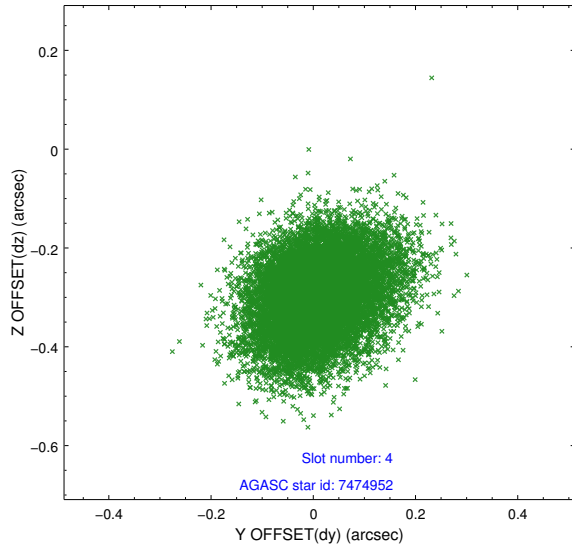
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	6428	0.102	-0.204	0.029	0.044	0.000000	0.000000	922.80	-1003.61
1	FID		ACIS-I-4	7.14	6429	0.245	0.116	0.028	0.044	0.000000	0.000000	2142.45	897.50
2	FID		ACIS-I-5	7.24	6428	-0.445	0.157	0.020	0.043	0.000000	0.000000	-1825.75	894.24
3	GUIDE	used	7471728	8.25	12852	-0.060	-0.050	0.111	0.193	50.301814	0.547551	466.24	351.98
4	GUIDE	used	7474952	8.95	12850	0.008	-0.295	0.104	0.173	50.914258	0.739806	2205.67	1871.59
5	GUIDE	used	7478112	8.49	12853	0.008	-0.049	0.107	0.173	50.252997	1.084278	-472.63	2049.38
6	GUIDE	used	617223024	8.47	12856	0.190	0.277	0.104	0.169	50.185855	-0.169404	1121.30	-2179.18
7	GUIDE	used	7471888	7.78	12857	-0.149	0.121	0.076	0.126	50.302431	0.059105	1174.57	-1258.13

2.4 Star Slots

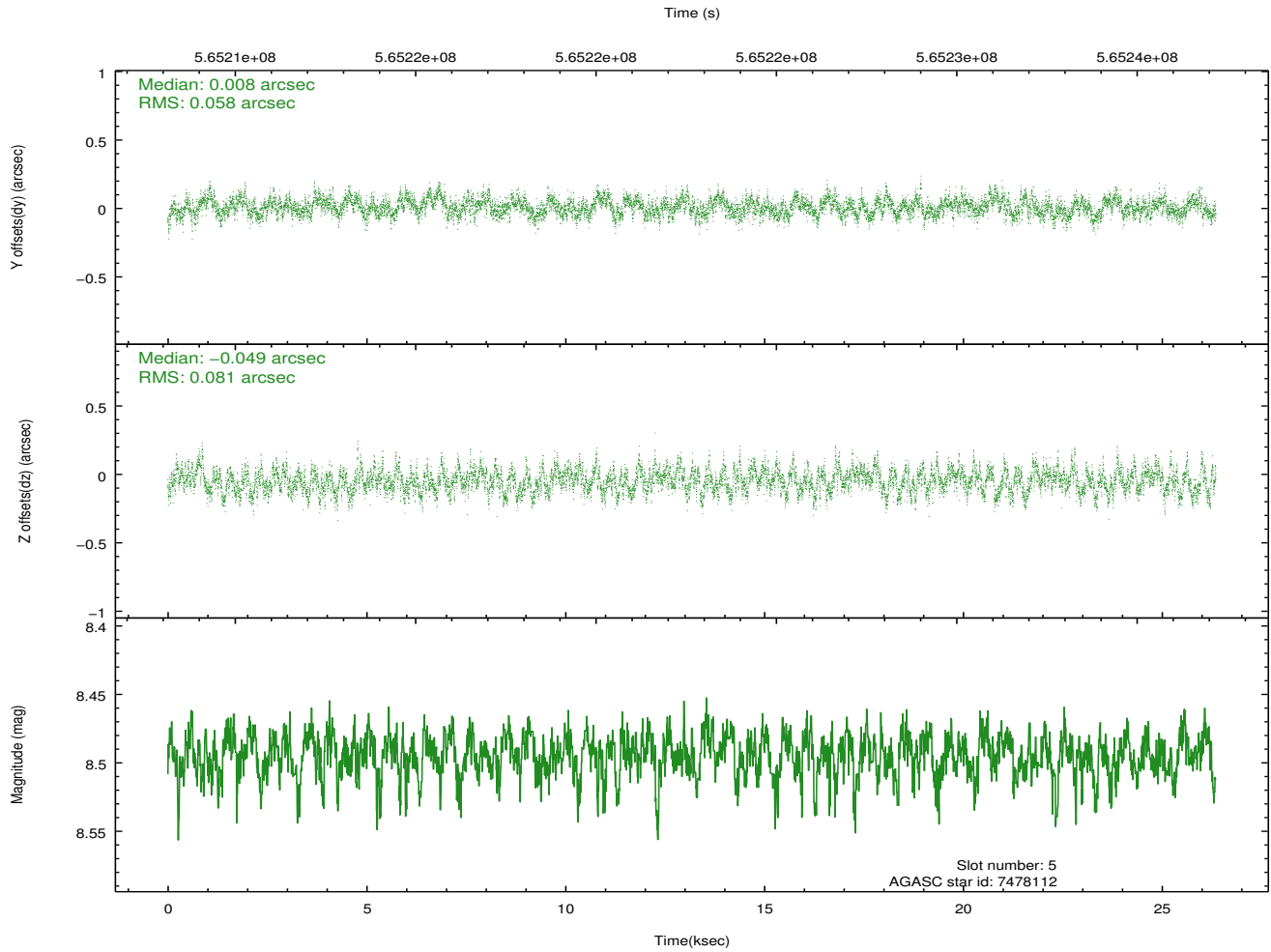
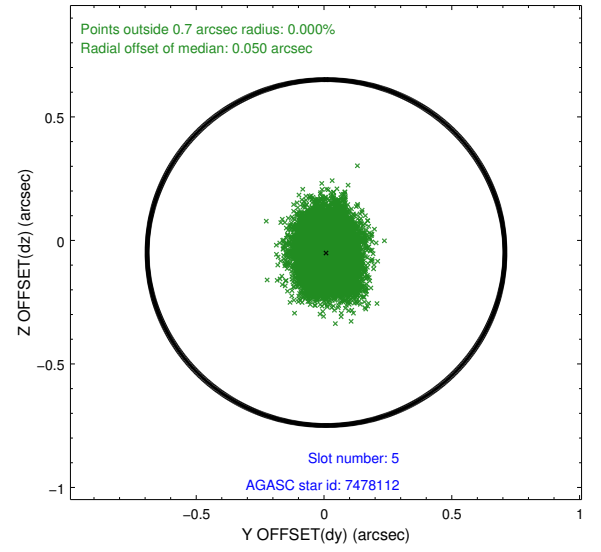
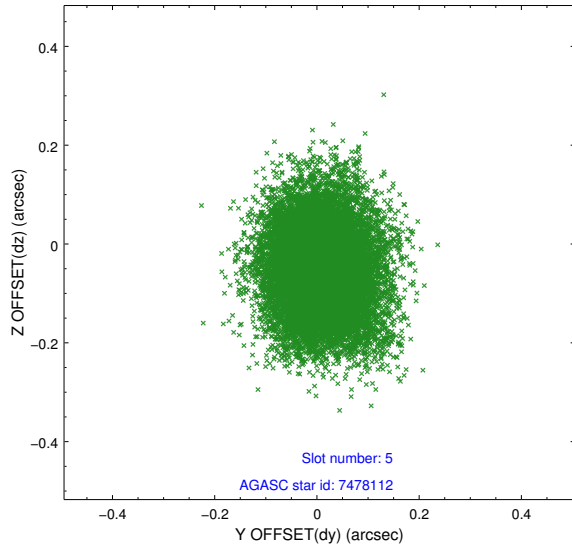
2.4.1 Slot 3



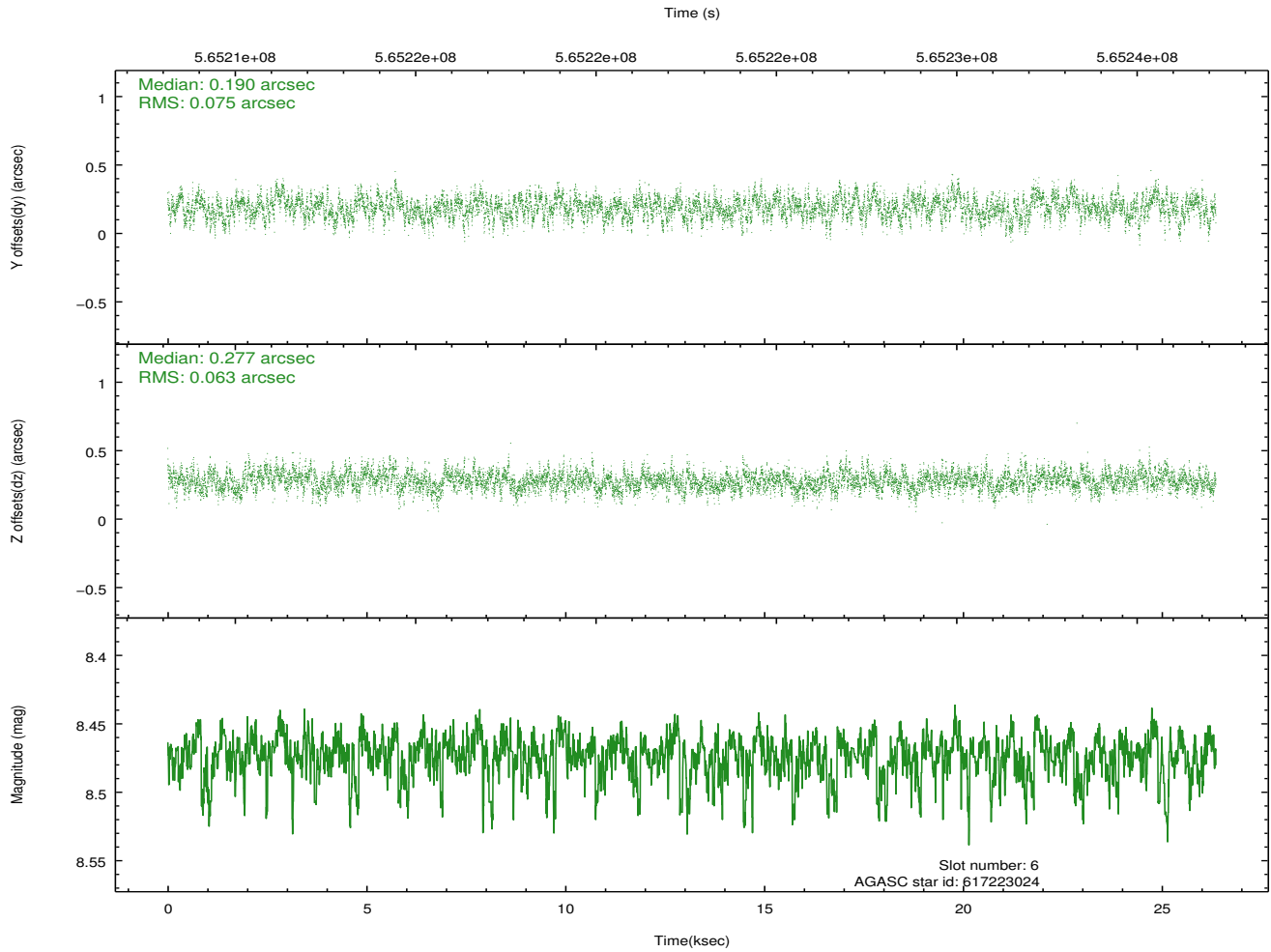
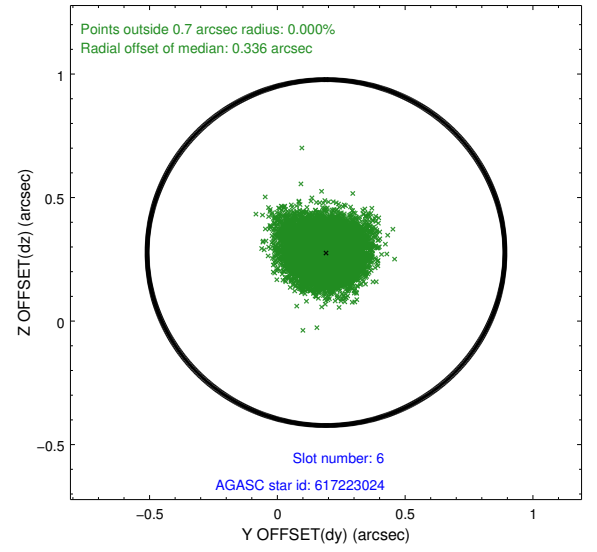
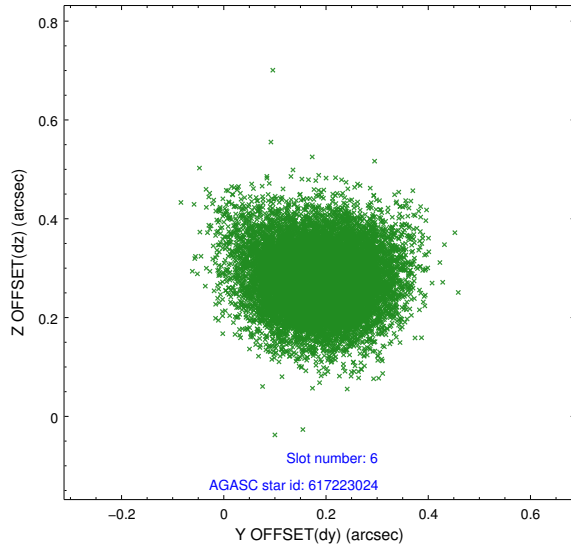
2.4.2 Slot 4



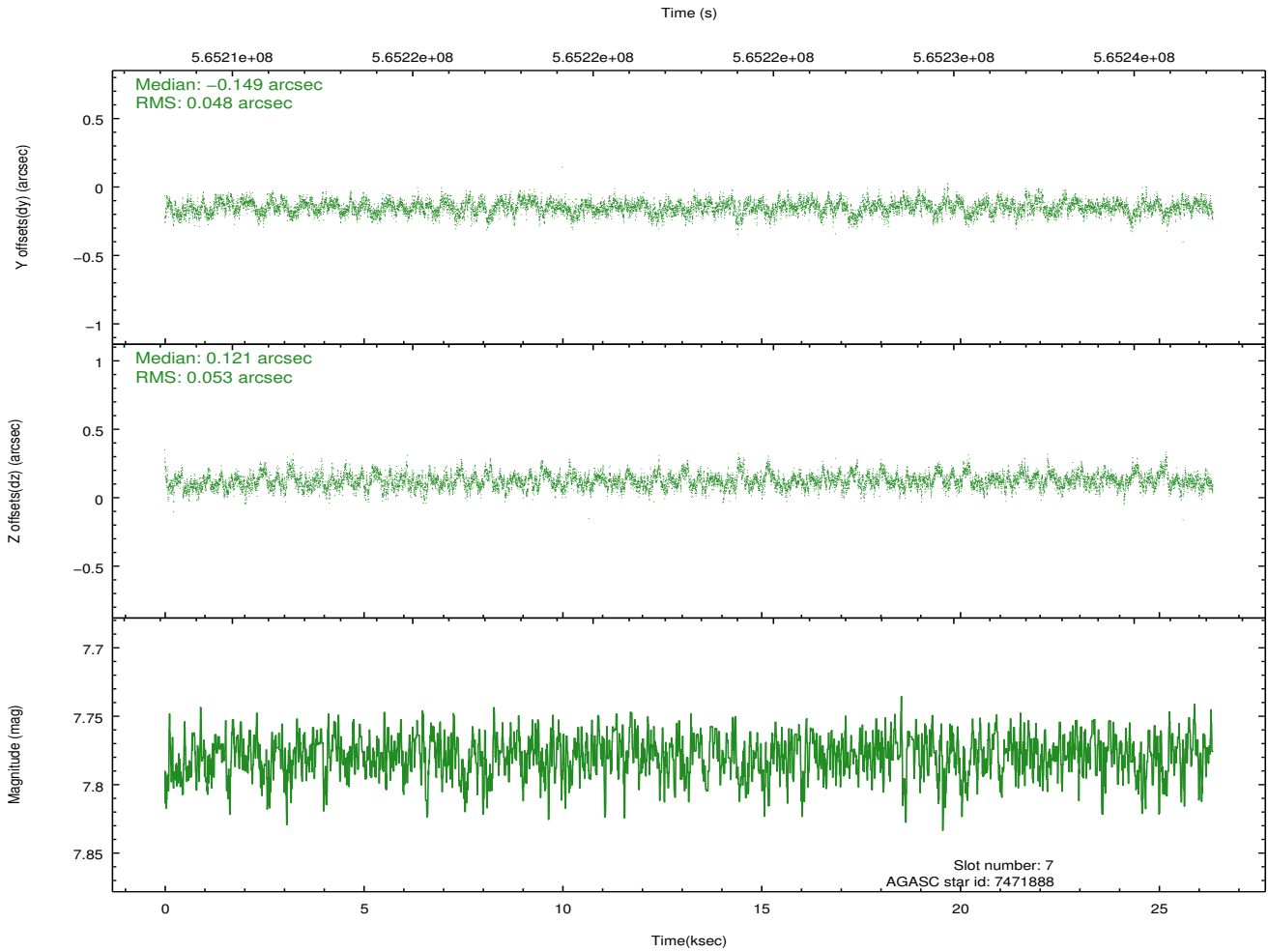
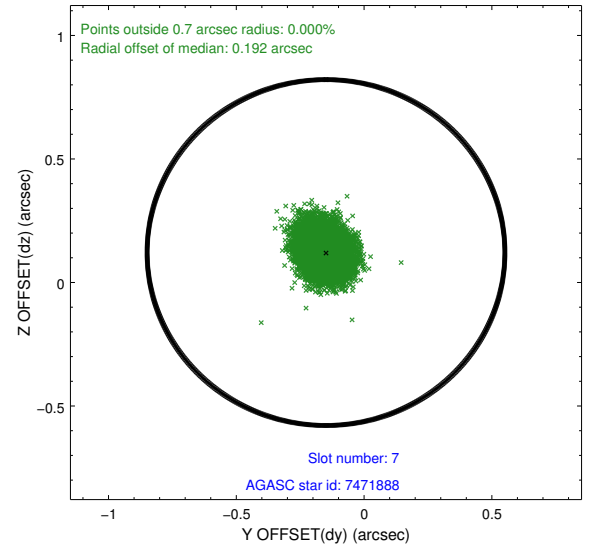
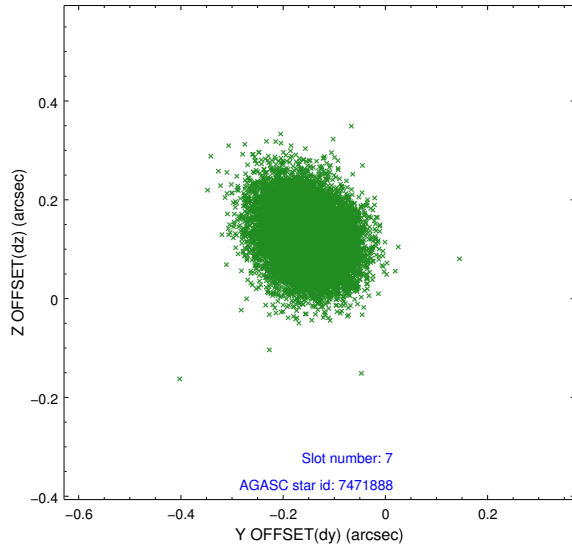
2.4.3 Slot 5



2.4.4 Slot 6

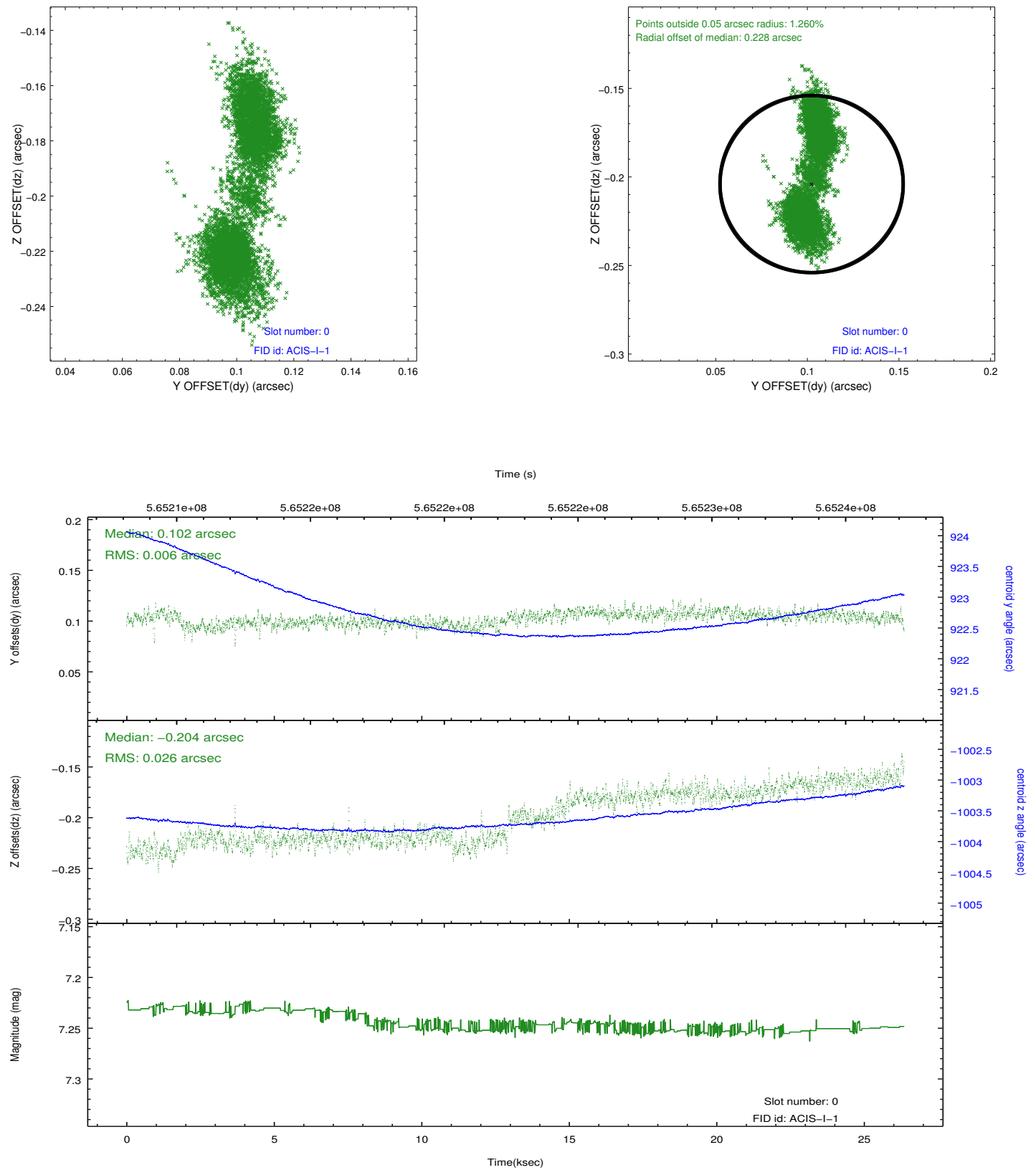


2.4.5 Slot 7

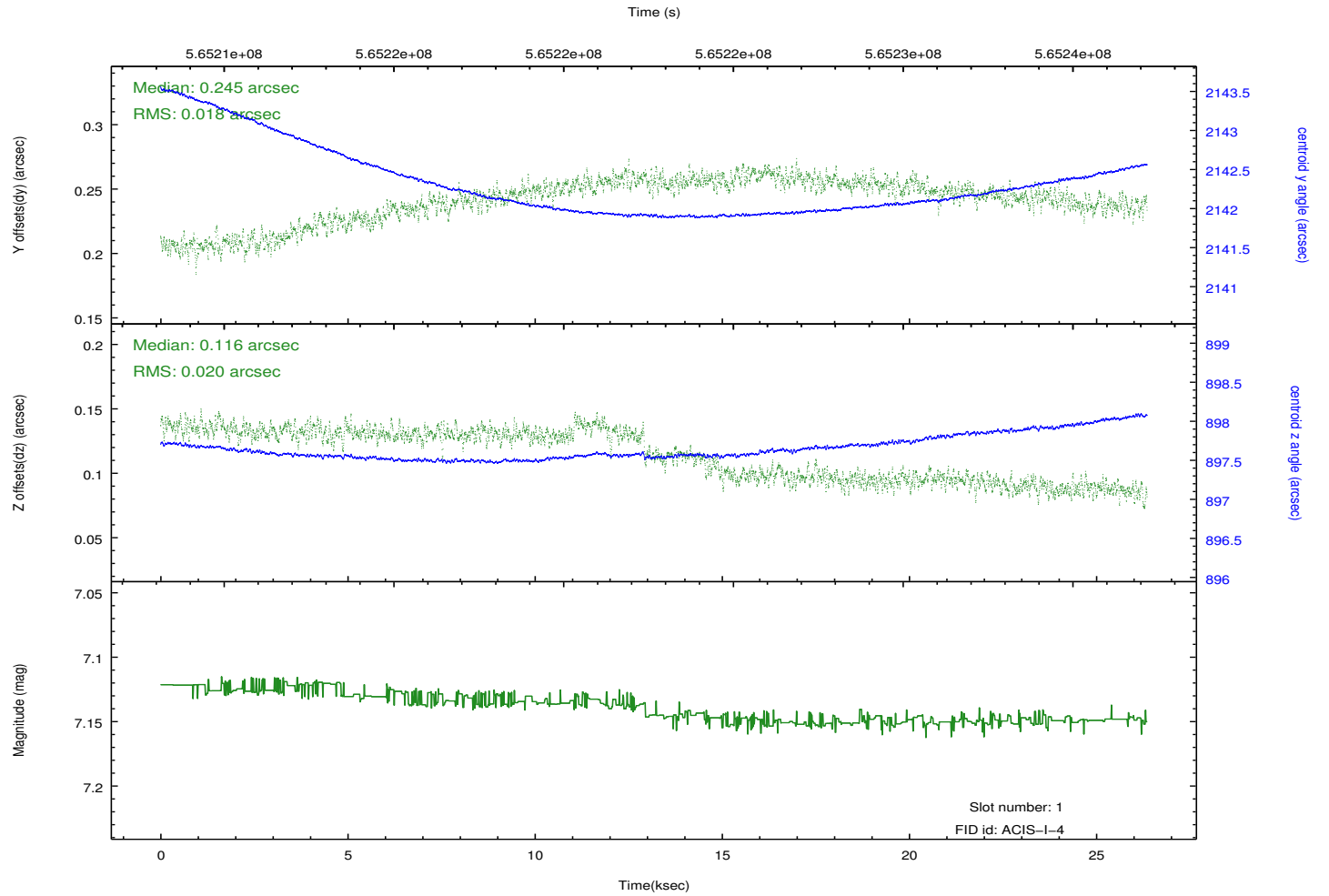
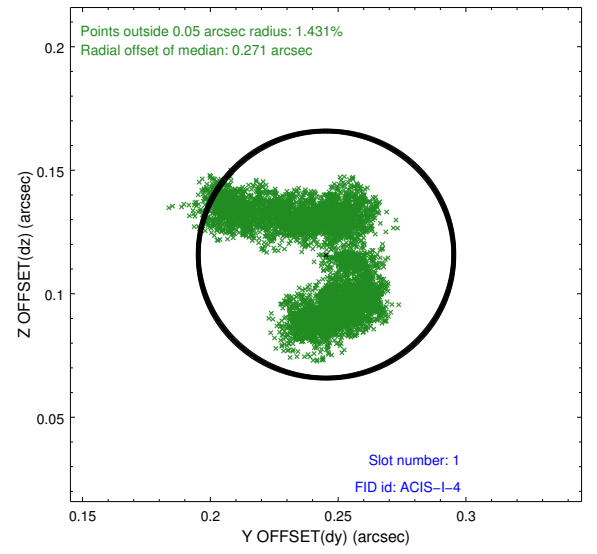
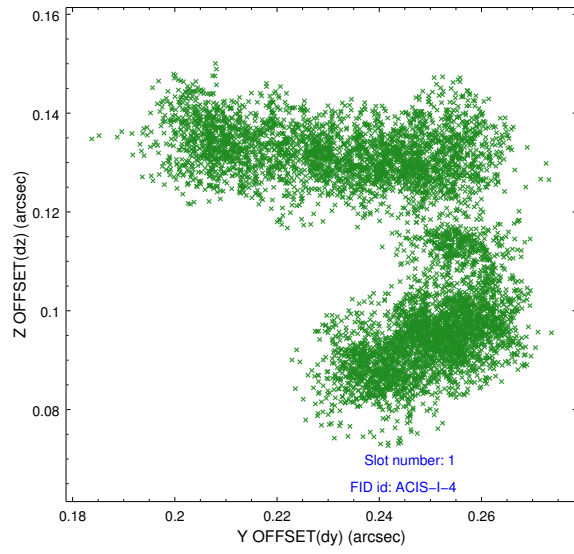


2.5 FID Slots

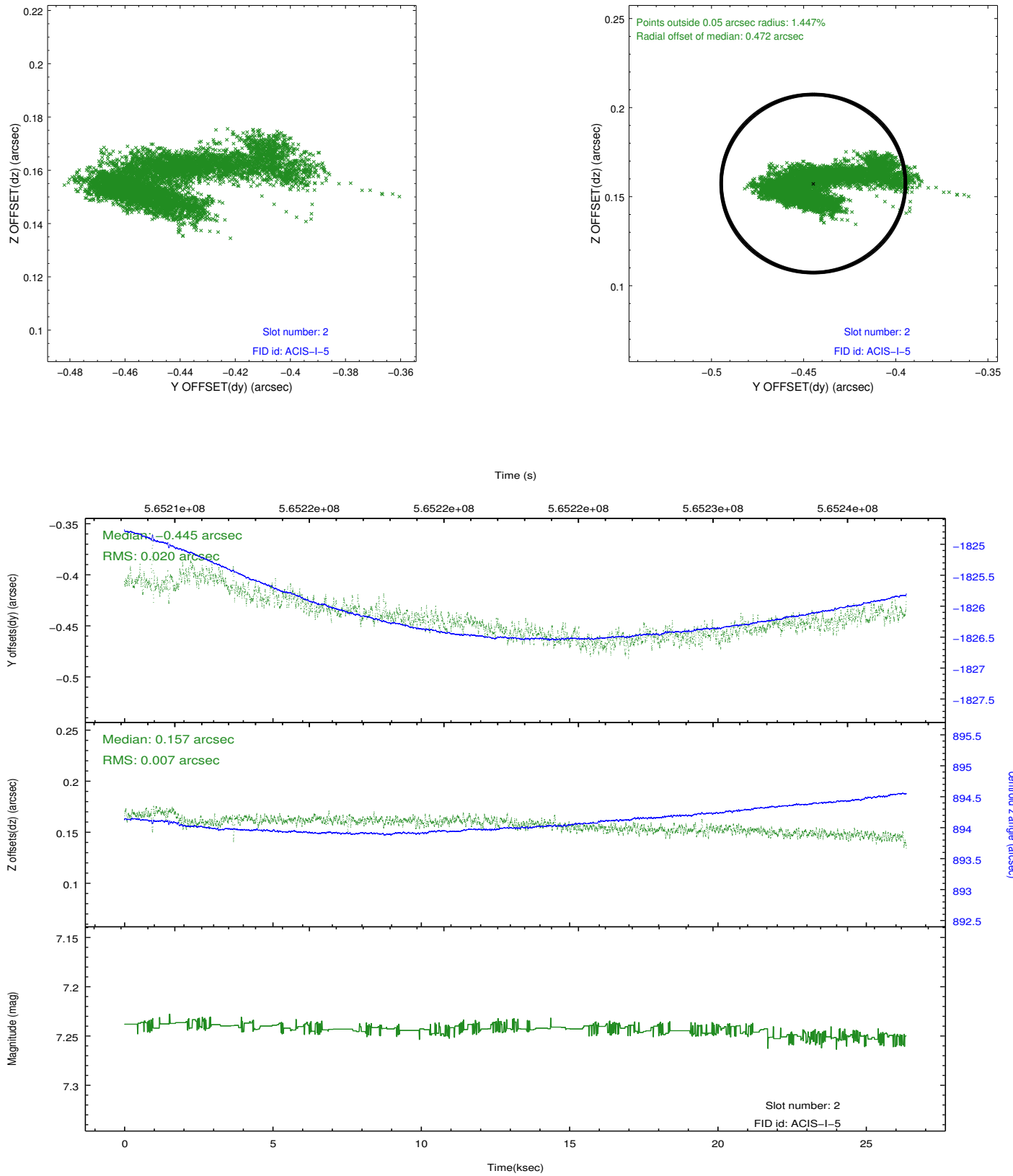
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.23464502418

A.2 Comments