

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19350 - L2 Version 2
Chandra X-Ray Center

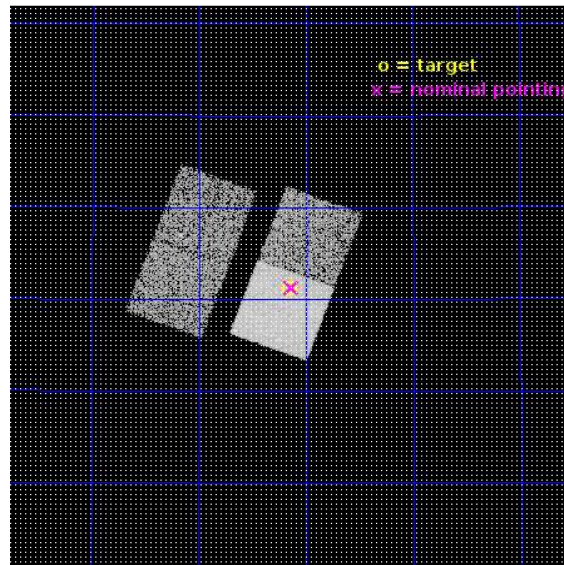
L2 Processing Date : Jan 19 2017

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1 Front

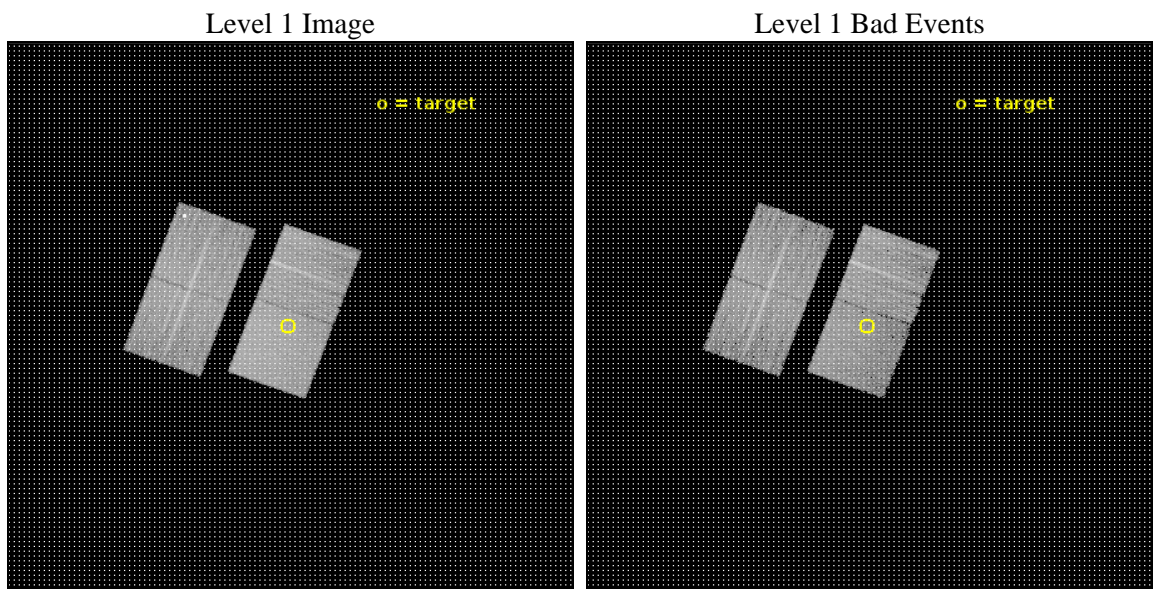
seq_num	601307	Sequence number
obs_id	19350	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3319	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.789583	Observer's specified target RA [deg]
dec_targ	41.686861	Observer's specified target Dec [deg]
ra_nom	159.78415966191	Nominal RA [deg]
dec_nom	41.687741078319	Nominal Dec [deg]
roll_nom	110.16036483621	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.644632936	Sum of GTIs [s]
livetime	9937.0903783779	Livetime [s]
ontime2	10068.521512985	Sum of GTIs [s]
ontime3	10068.562552929	Sum of GTIs [s]
ontime6	10068.603592992	Sum of GTIs [s]
ontime7	10068.644632936	Sum of GTIs [s]
l2events	58093	Number of level 2 events



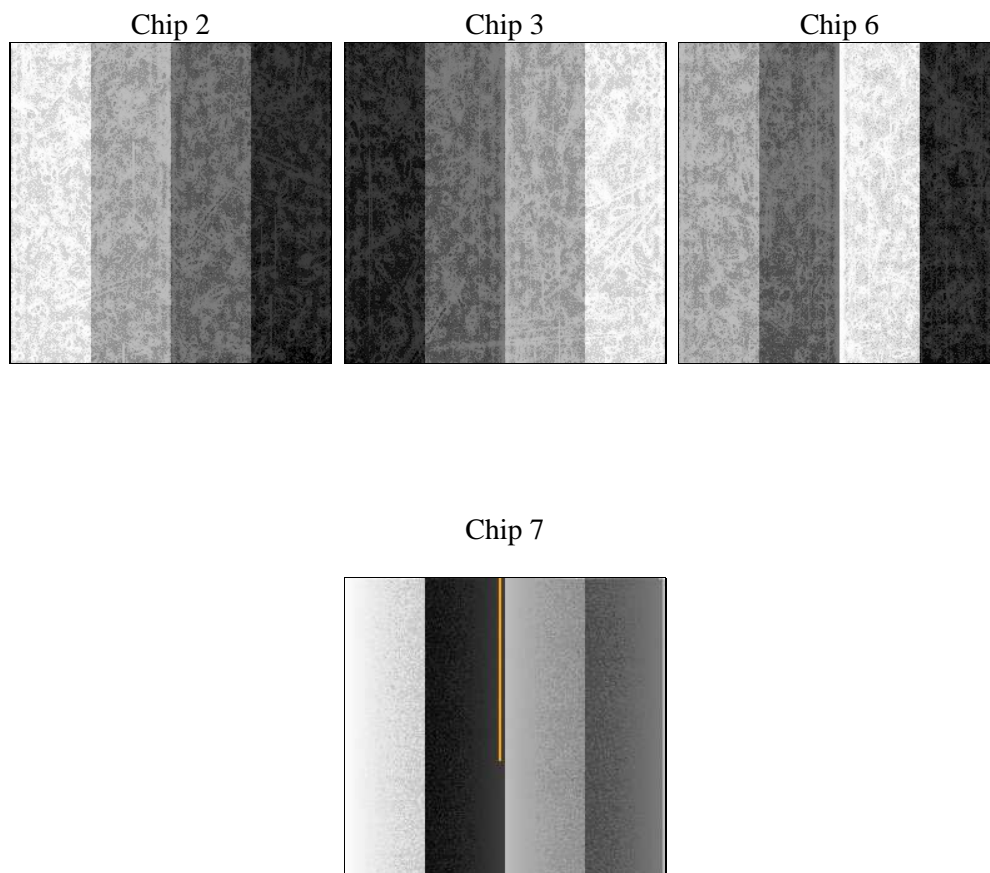
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10068.644632936	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	10068.521512985	Sum of GTIs [s]
date	2017-01-19T17:59:41	Date and time of file creation	ontime3	10068.562552929	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10068.603592992	Sum of GTIs [s]
			ontime7	10068.644632936	Sum of GTIs [s]
			l1events	314887	Number of level 1 events

2.1.4 Events

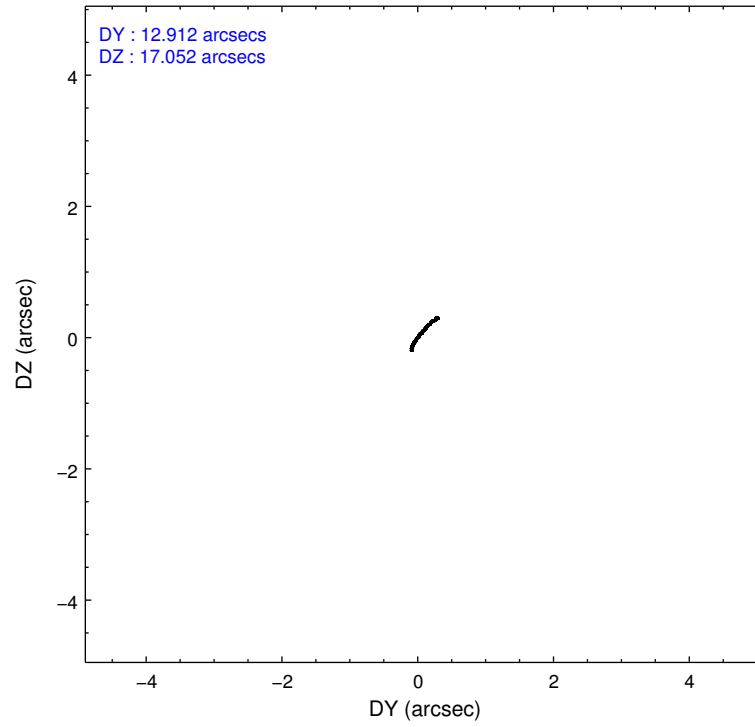
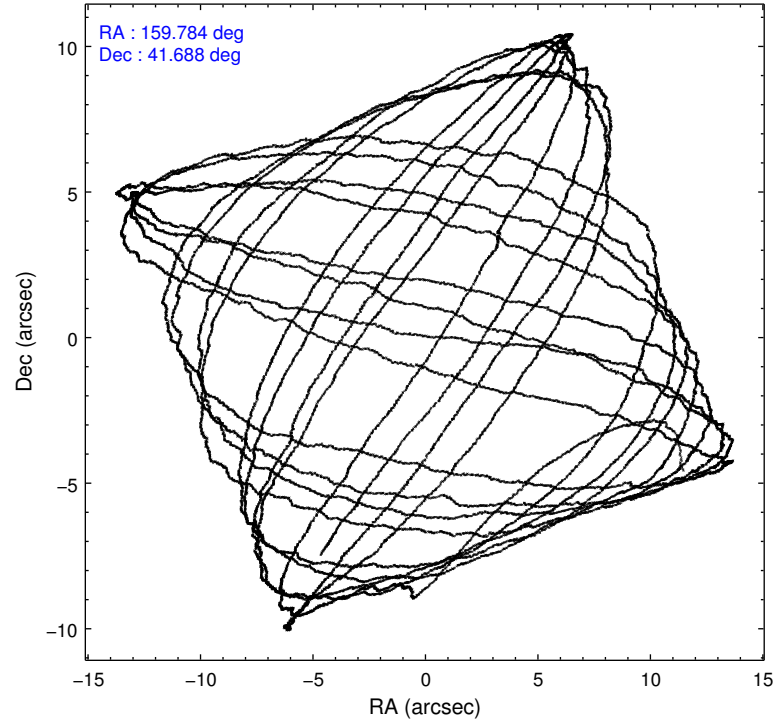
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	75299	70417	76591	92580
rejected events	64787	63180	68303	53404
rejected %	86%	89%	89%	57%

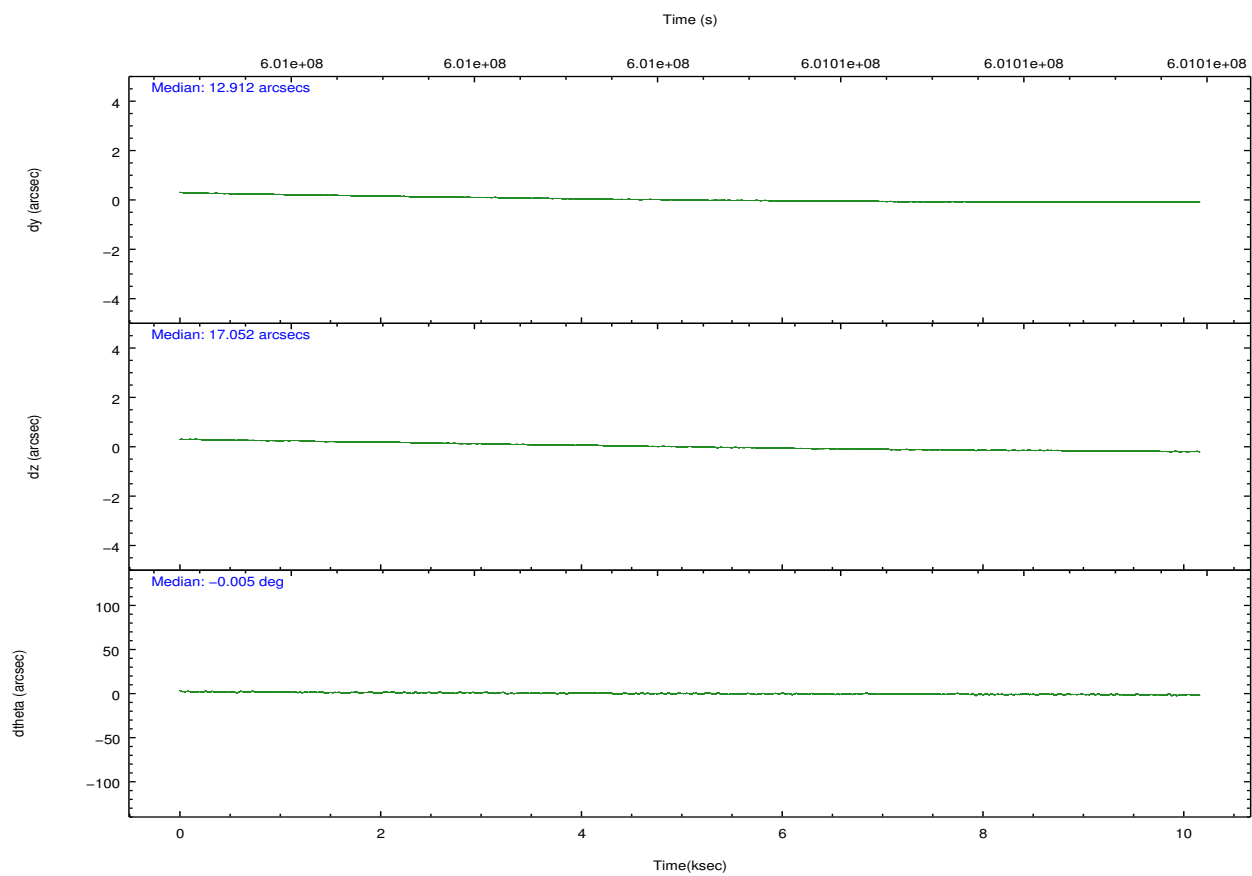
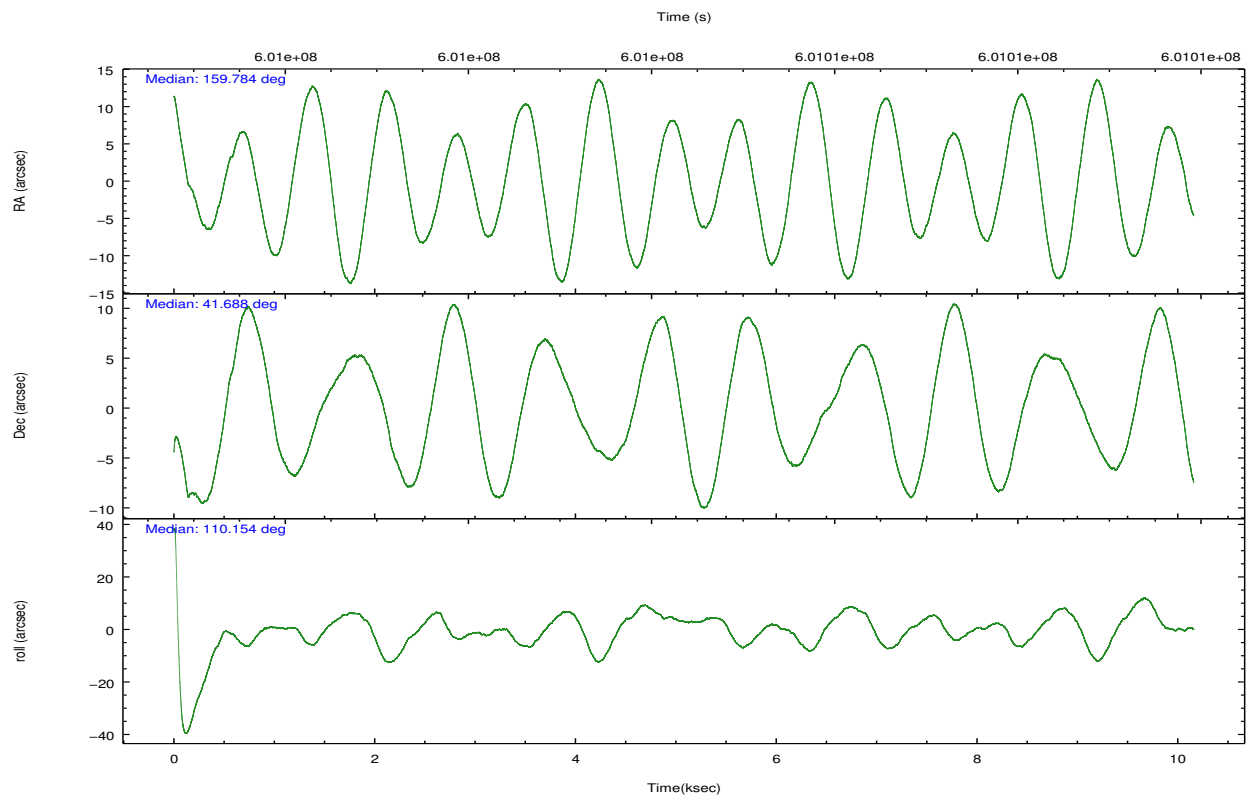
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5687	2437	2748	3068
	7%	3%	3%	3%
grade 1 events	36	40	30	133
	0%	0%	0%	0%
grade 2 events	1797	1603	1989	8387
	2%	2%	2%	9%
grade 3 events	751	819	797	2927
	0%	1%	1%	3%
grade 4 events	769	824	756	2876
	1%	1%	0%	3%
grade 5 events	2659	3302	3265	8774
	3%	4%	4%	9%
grade 6 events	1514	1557	2002	21950
	2%	2%	2%	23%
grade 7 events	62086	59835	65004	44465
	82%	84%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	159.812671	159.7841596619148	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.670443	41.68774107831926	Alternating exposures requested	N	N
[deg] Pointing Roll	109.984653	110.1603648362109	[s] Primary exposure time	0.000000	3.1
[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)	600999442.184000	600997966.89336			
Observation start date	2017-01-17T00:16:13	2017-01-16T23:52:46			
[s] Observation end time (MET)	601009442.184000	601010221.28157			
Observation end date	2017-01-17T03:02:53	2017-01-17T03:17:01			
Read mode	TIMED	TIMED			

2.3 Aspect



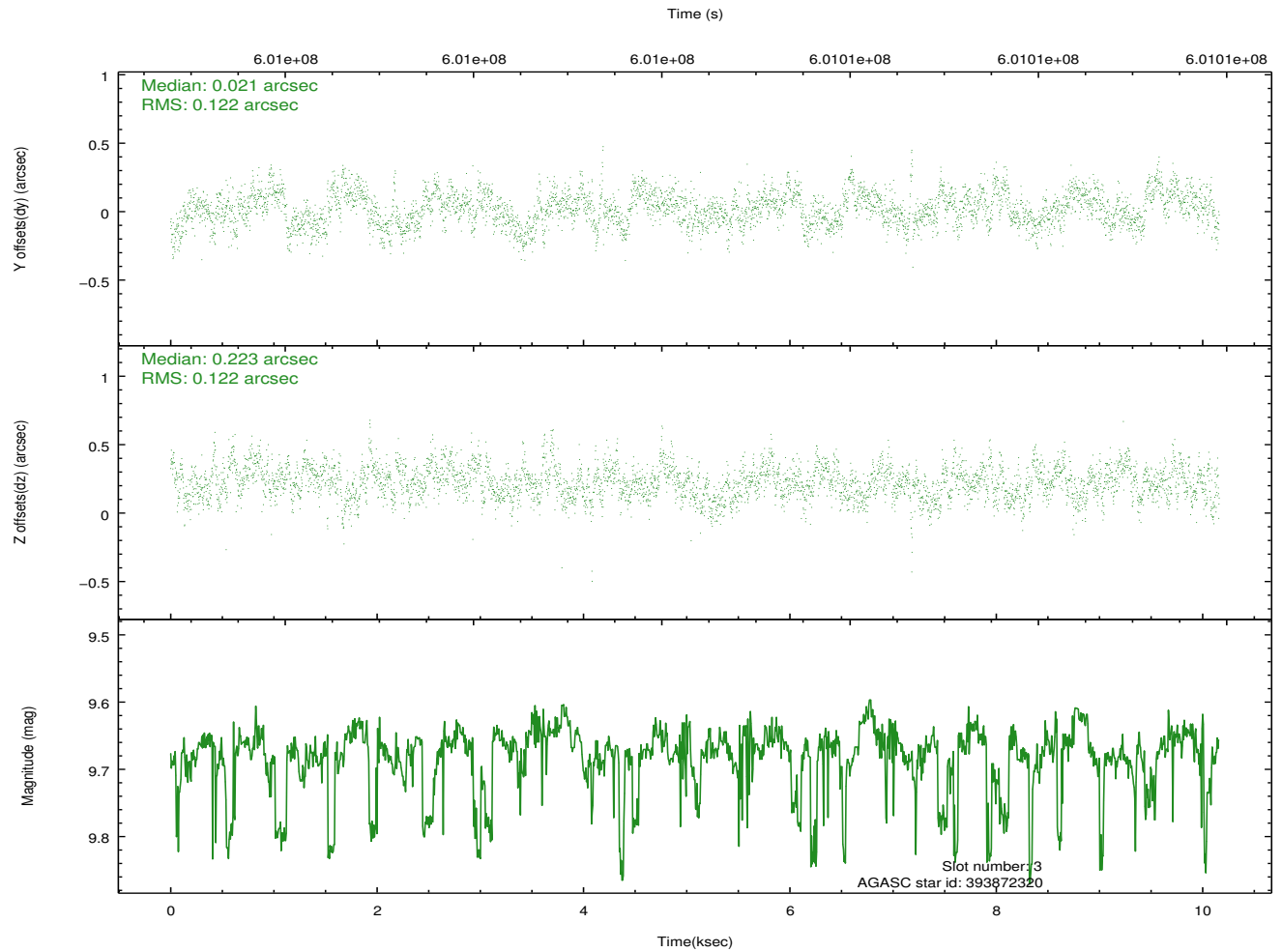
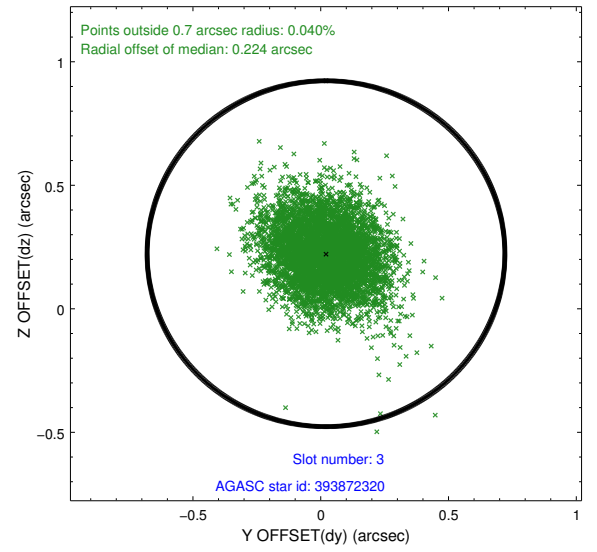
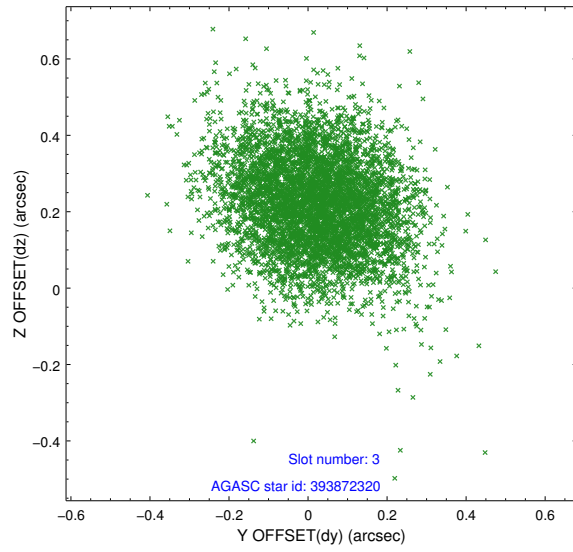


Slot Statistics

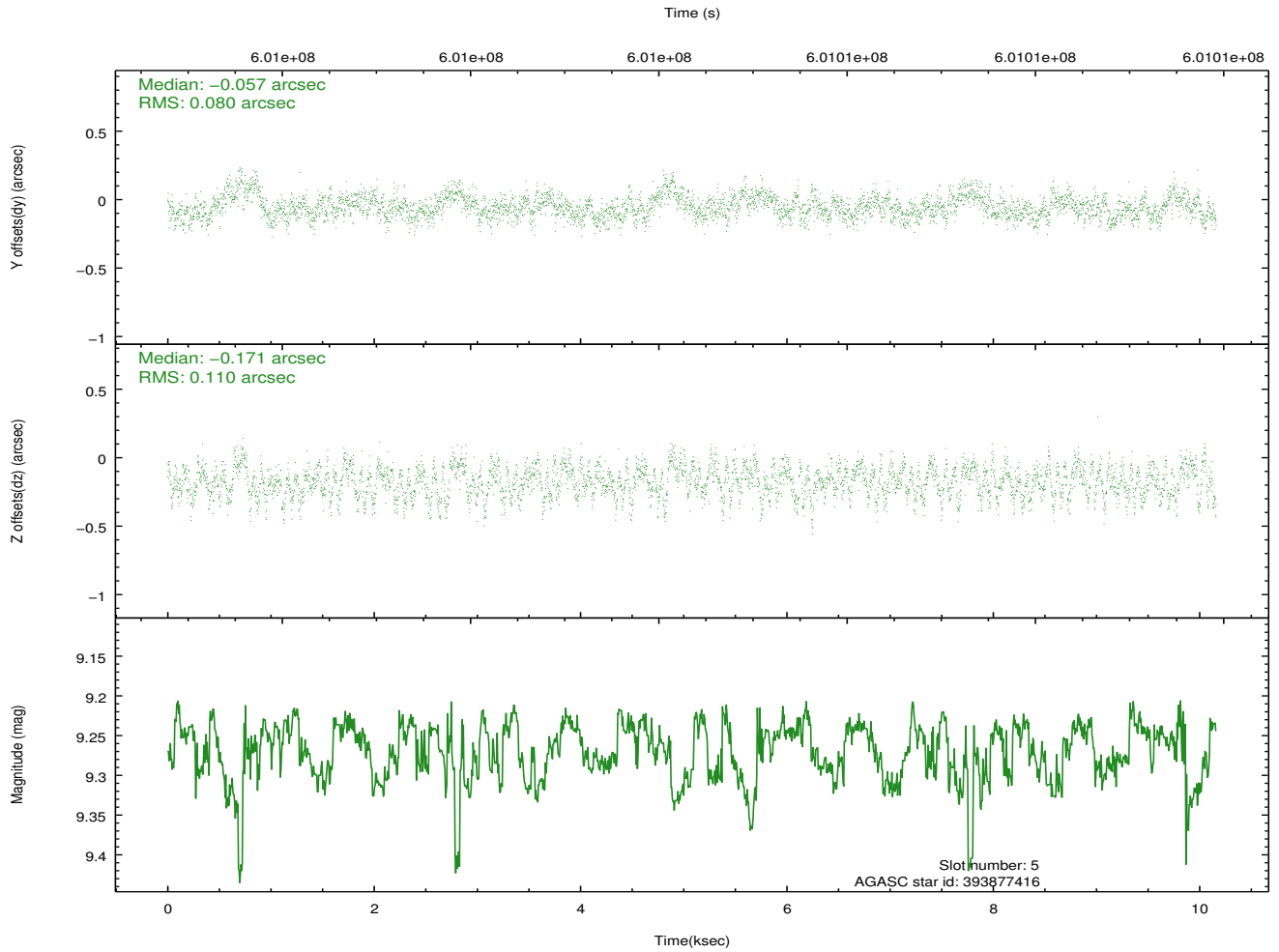
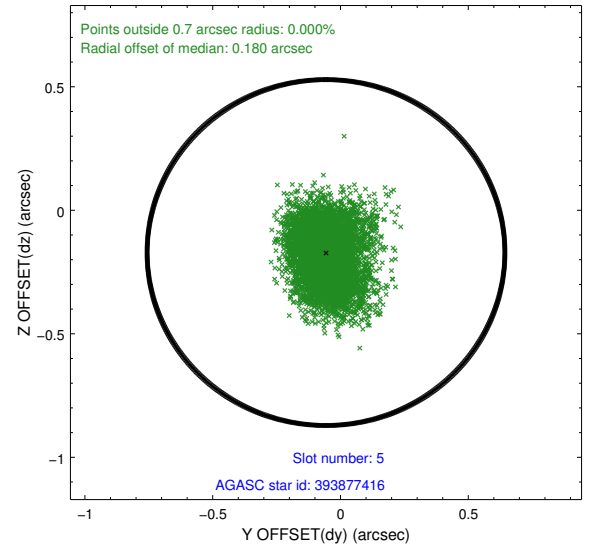
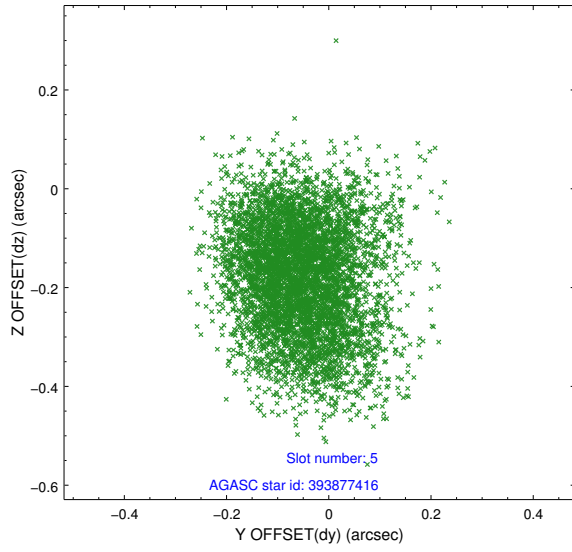
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	2478	-0.123	-0.103	0.012	0.019	0.000000	0.000000	-765.97	-1738.61
1	FID		ACIS-S-4	7.19	2478	0.413	0.087	0.011	0.019	0.000000	0.000000	2147.59	169.54
2	FID		ACIS-S-5	7.20	2477	-0.322	0.025	0.012	0.020	0.000000	0.000000	-1818.36	163.71
3	GUIDE	used	393872320	9.67	4945	0.021	0.223	0.182	0.293	159.885953	41.990128	1015.18	-577.36
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	393877416	9.27	4953	-0.057	-0.171	0.145	0.235	158.878041	41.909799	1678.79	2053.89
6	GUIDE	used	393878920	6.38	4957	-0.504	-0.473	0.117	0.185	158.785818	41.908930	1762.22	2286.14
7	GUIDE	used	394405664	10.29	4921	0.543	0.433	0.243	0.388	160.494796	41.187400	-2256.96	-1143.70

2.4 Star Slots

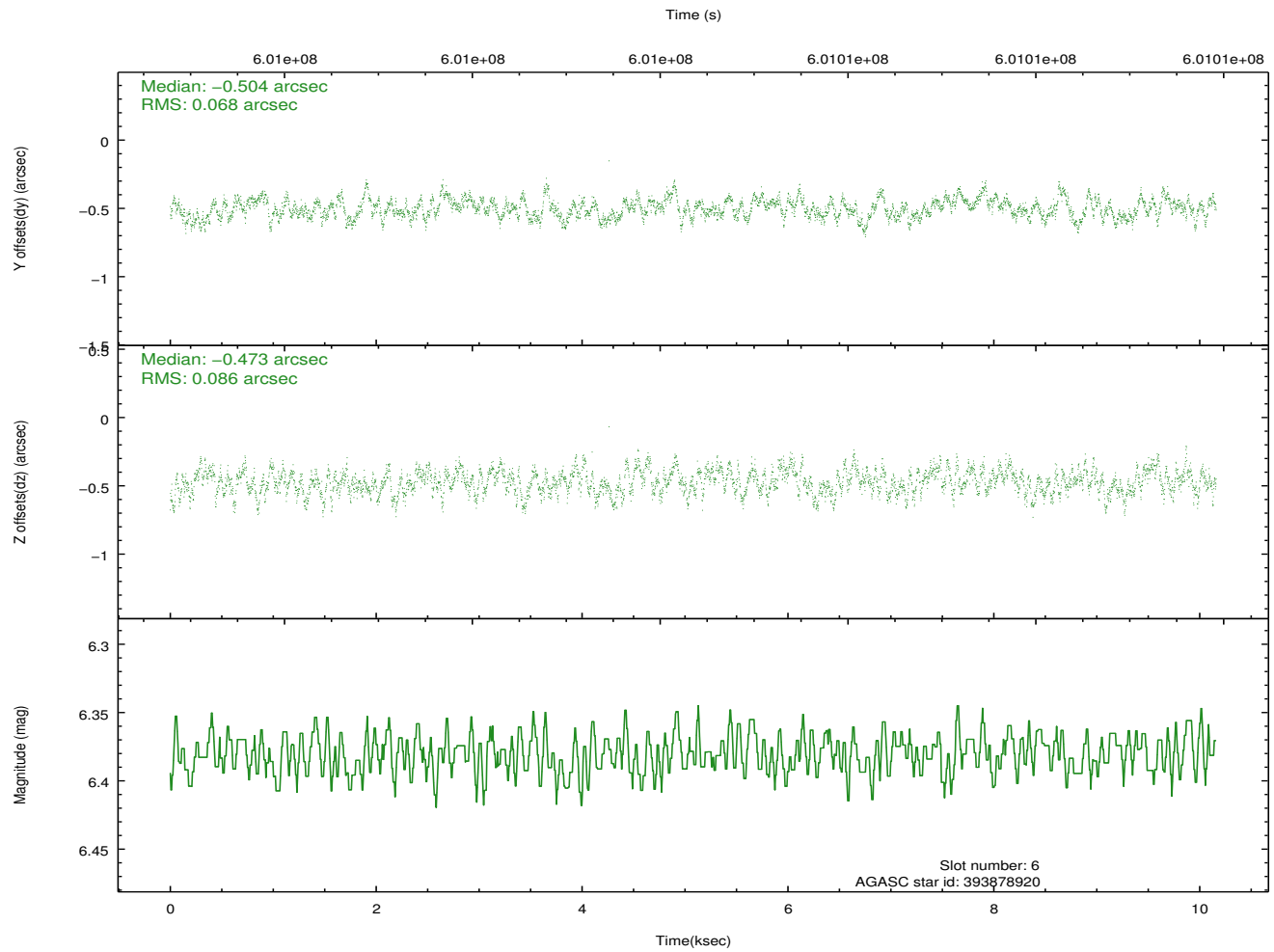
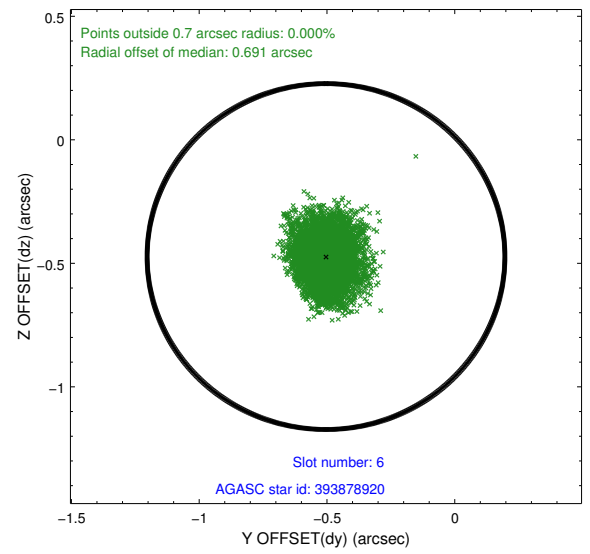
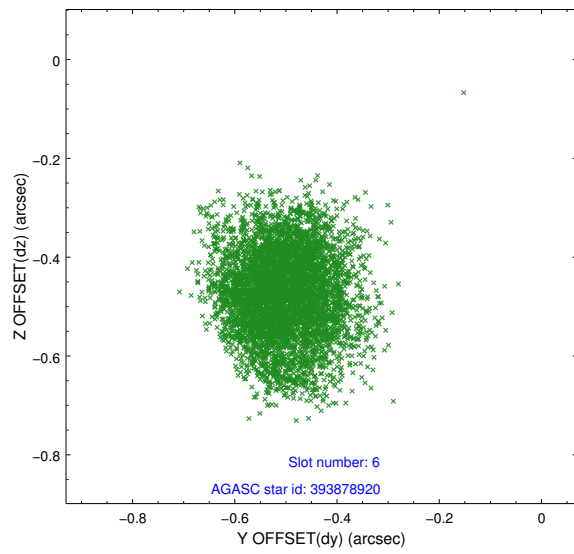
2.4.1 Slot 3



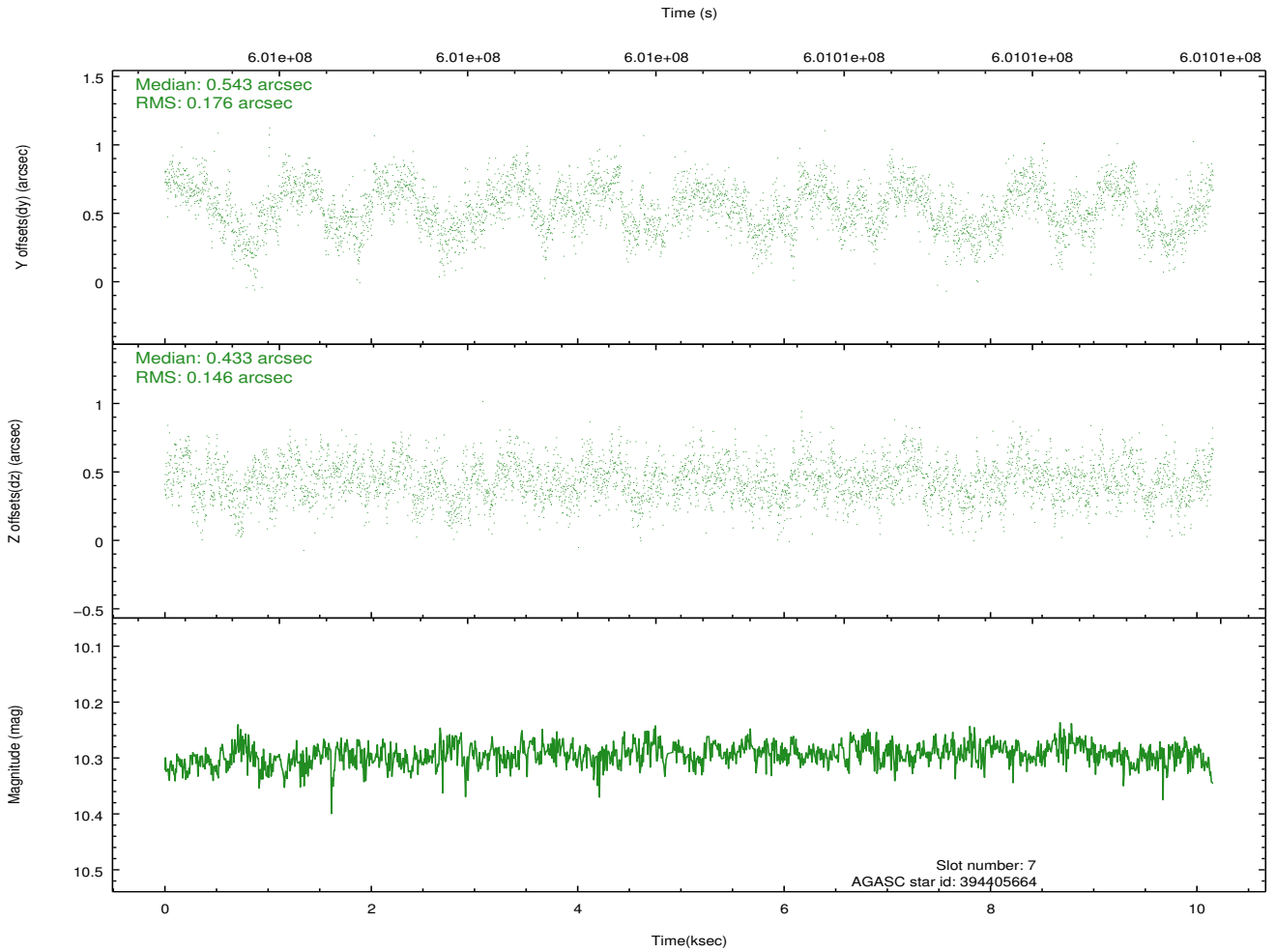
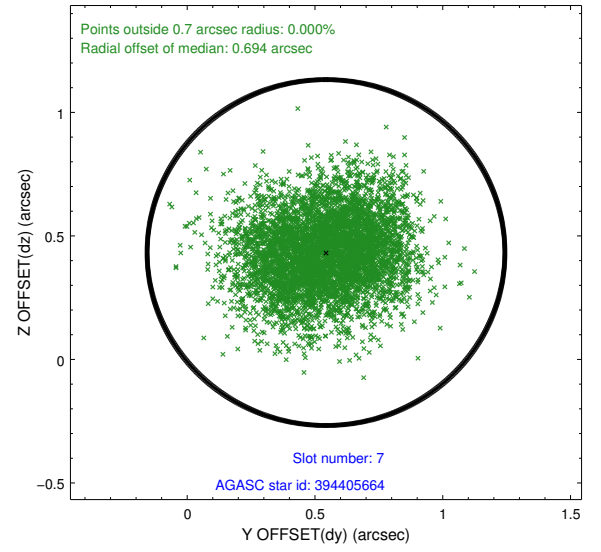
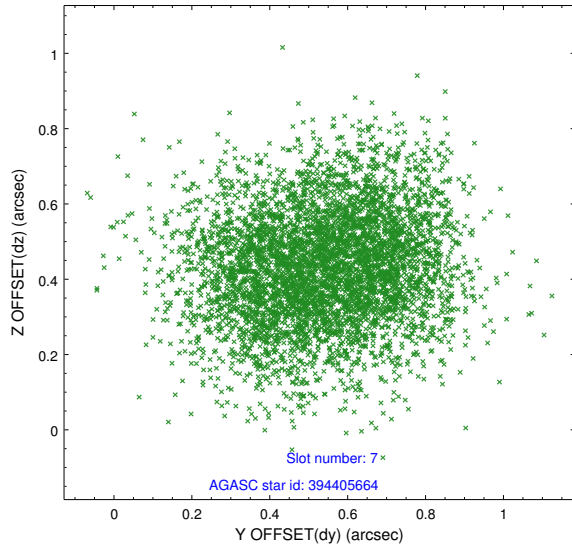
2.4.2 Slot 5



2.4.3 Slot 6

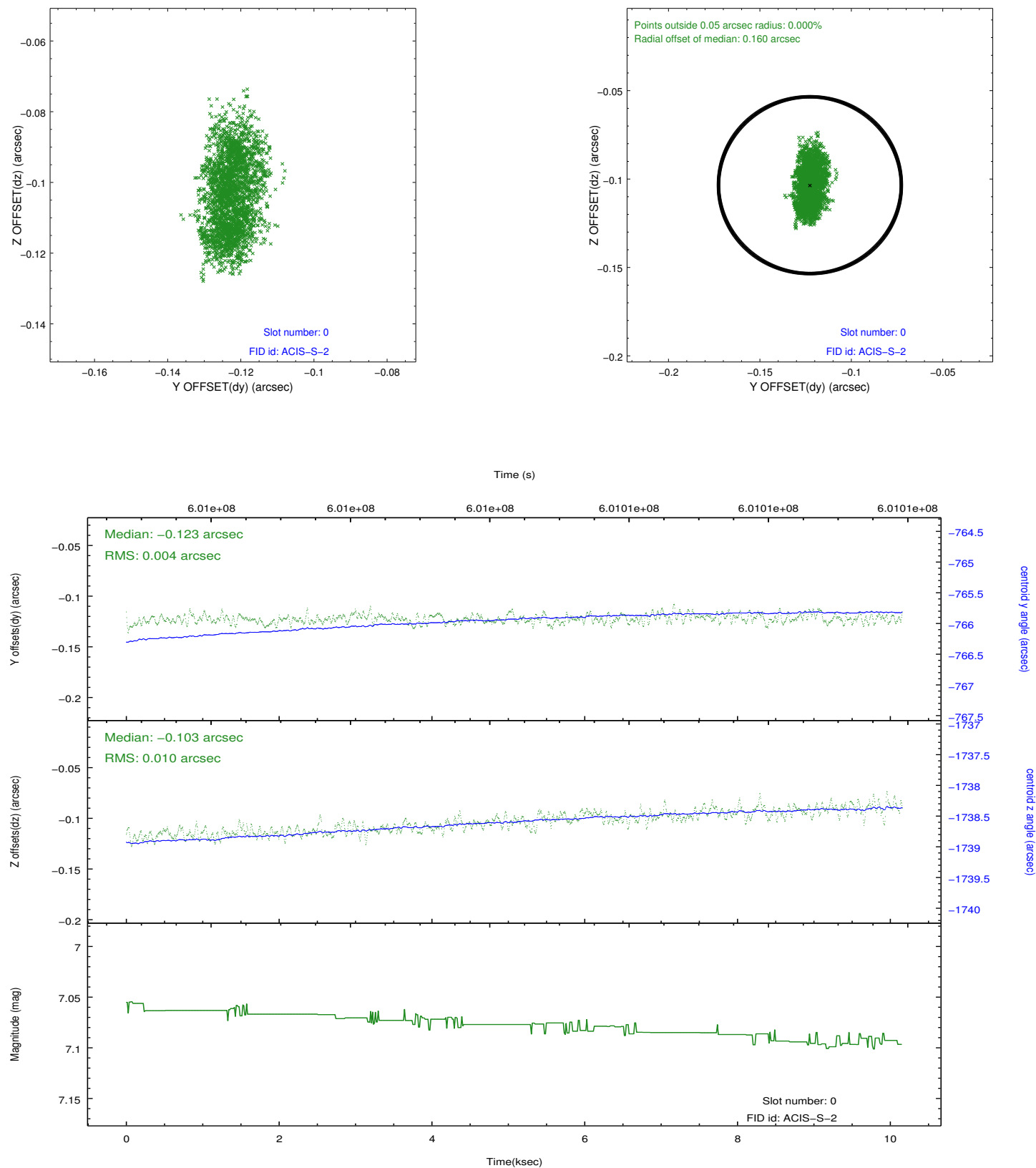


2.4.4 Slot 7

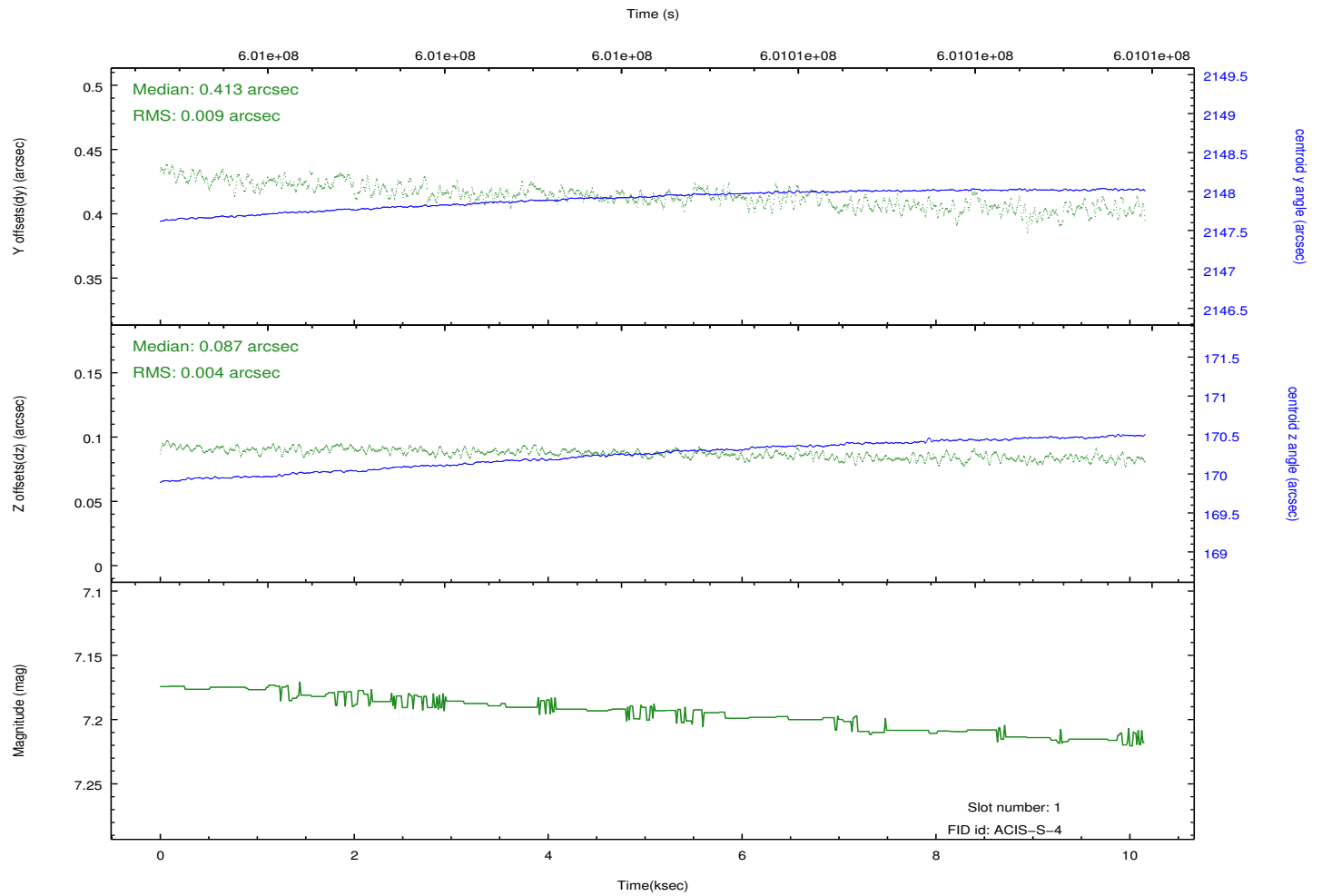
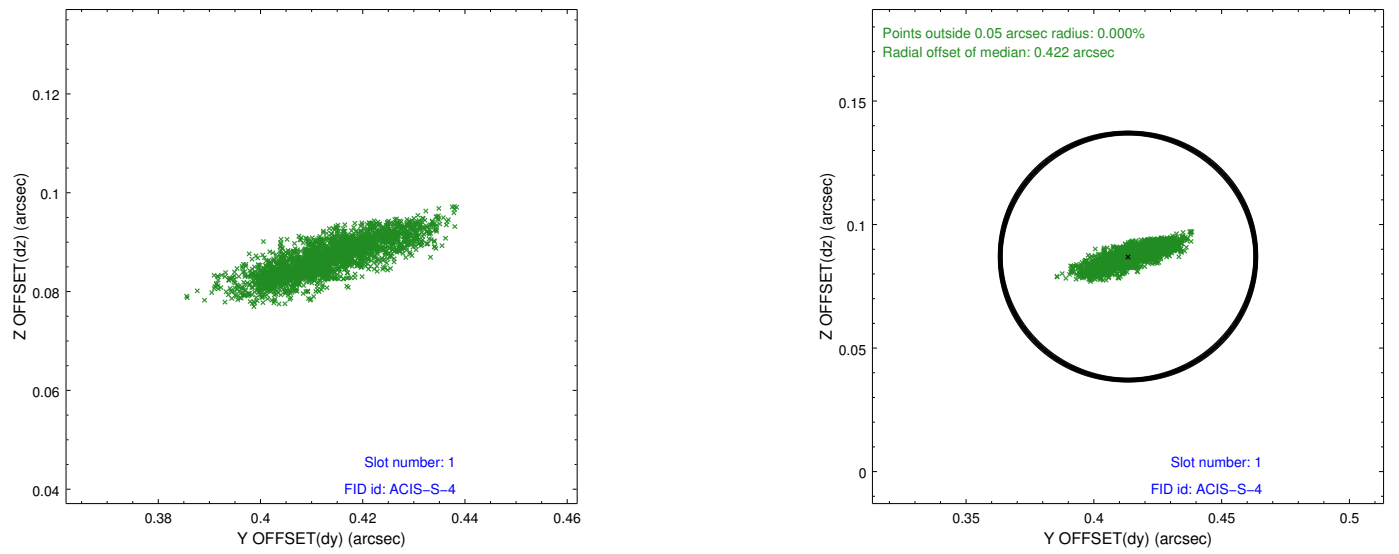


2.5 FID Slots

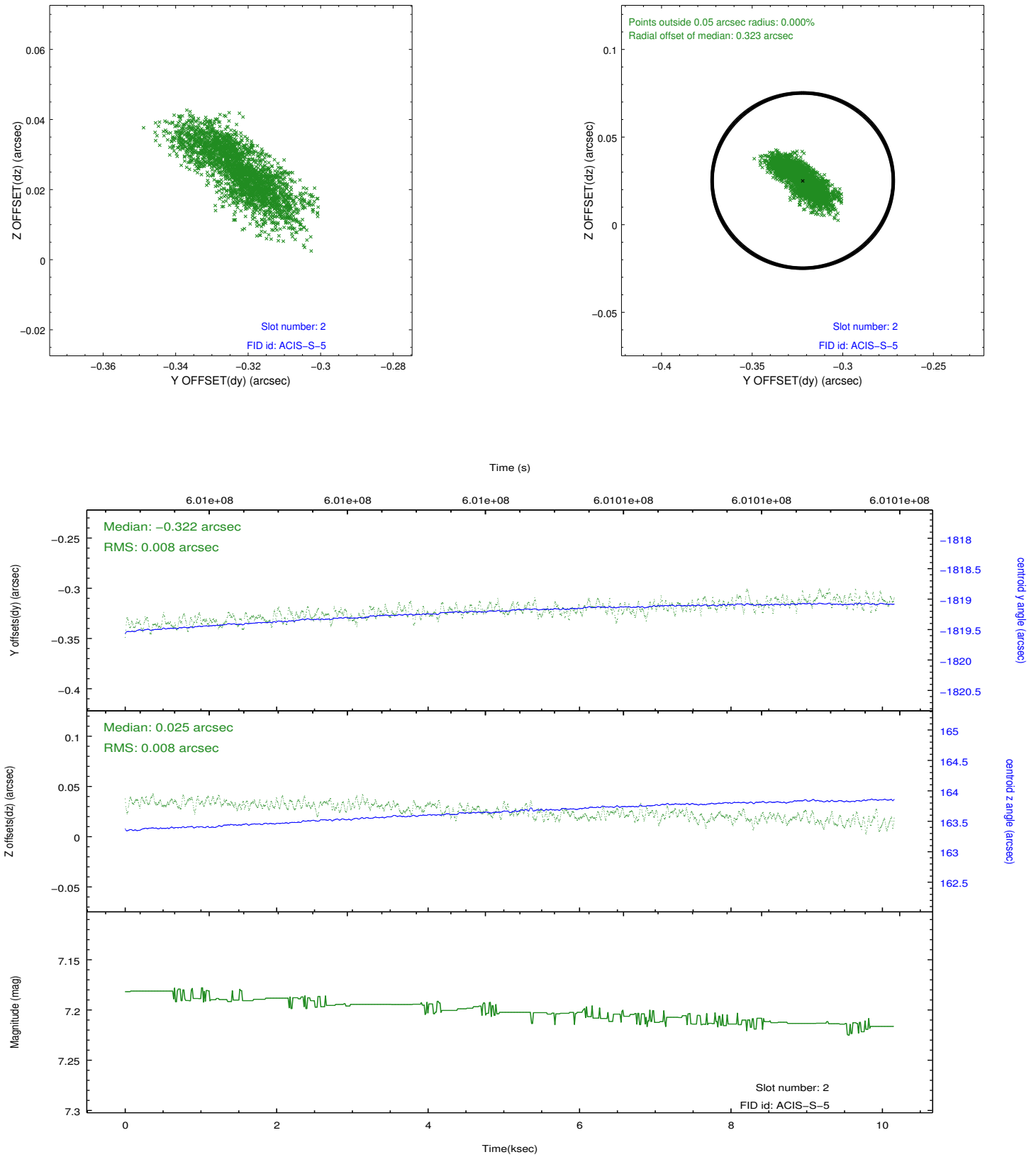
2.5.1 Slot 0



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)	2017.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068644632936

A.2 Comments

The guide star in slot 4 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.