

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16099 - L2 Version 1
Chandra X-Ray Center

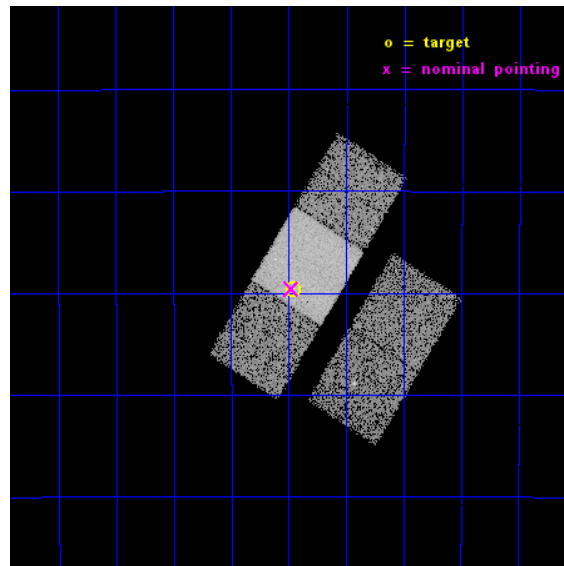
L2 Processing Date : Dec 24 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

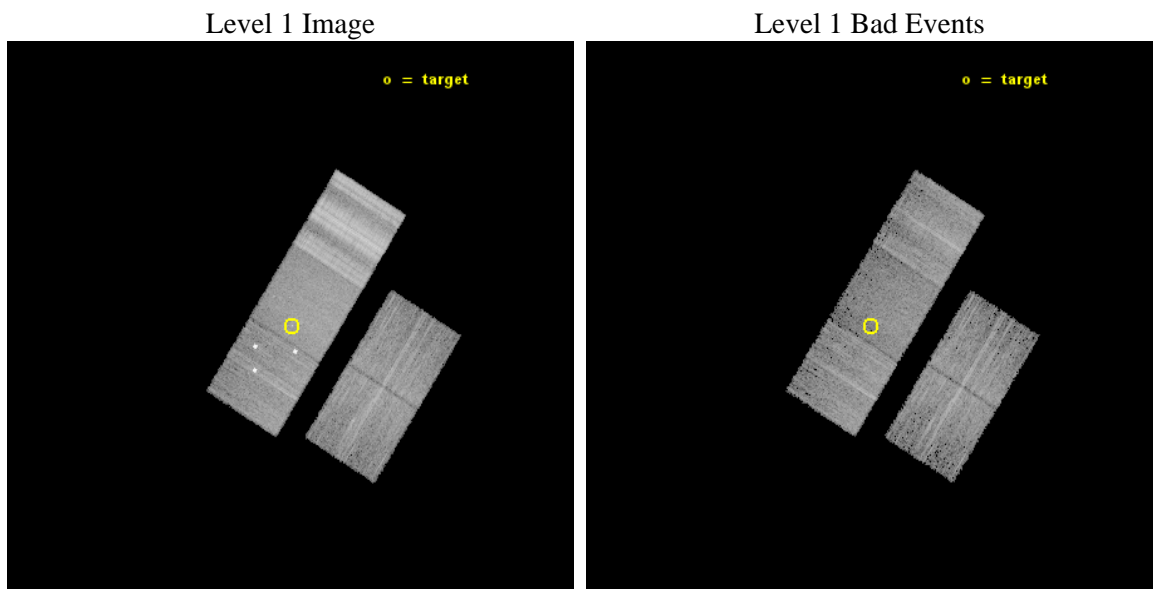
seq_num	702987	Sequence number
obs_id	16099	Observation id
title	A Chandra Study of Nearby Hybrid Morphology Radio Source	Proposal
observer	Dr. Dharam Lal	Principal investigator
object	MRC0131-367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.490417	Observer's specified target RA [deg]
dec_targ	-36.493333	Observer's specified target Dec [deg]
ra_nom	23.494252422304	Nominal RA [deg]
dec_nom	-36.493375231587	Nominal Dec [deg]
roll_nom	301.94194349188	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10924.400084019	Sum of GTIs [s]
livetime	10781.664754495	Livetime [s]
ontime2	10830.040954769	Sum of GTIs [s]
ontime3	10820.53574419	Sum of GTIs [s]
ontime6	10817.605286181	Sum of GTIs [s]
ontime7	10924.400084019	Sum of GTIs [s]
ontime8	10827.028366327	Sum of GTIs [s]
l2events	62473	Number of level 2 events



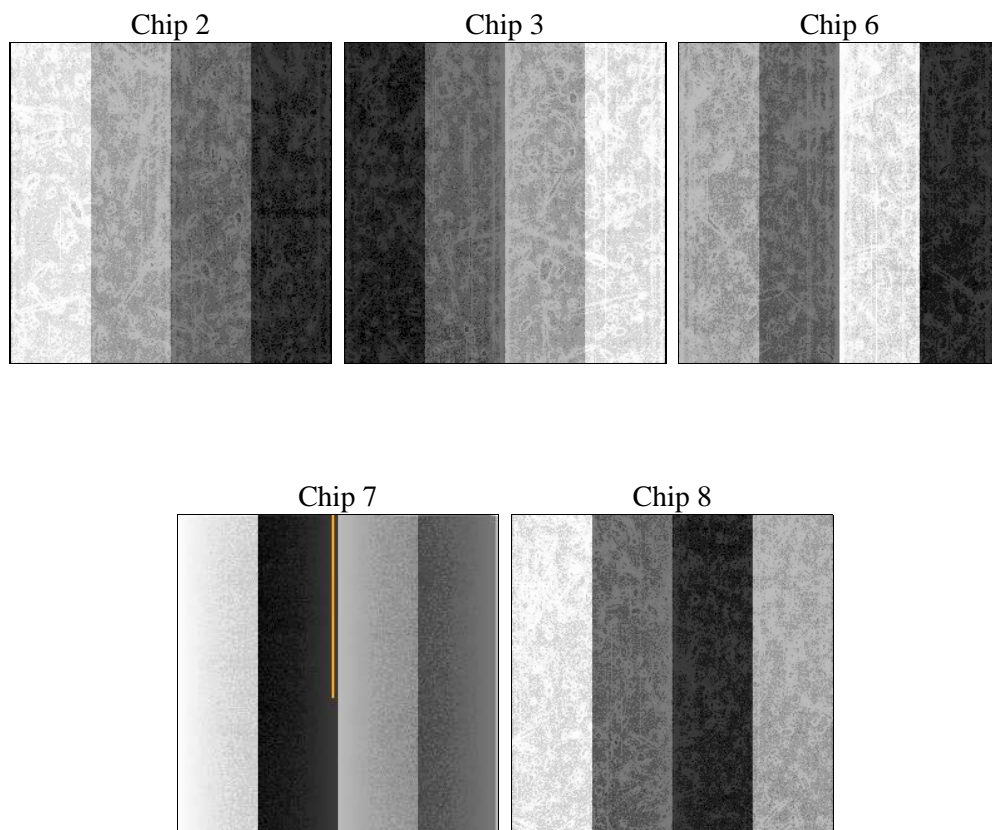
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10924.400084019	Sum of GTIs [s]
caldsver	4.6.5	 	ontime2	10830.040954769	Sum of GTIs [s]
date	2014-12-24T12:36:38	Date and time of file creation	ontime3	10820.53574419	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10817.605286181	Sum of GTIs [s]
			ontime7	10924.400084019	Sum of GTIs [s]
			ontime8	10827.028366327	Sum of GTIs [s]
			l1events	442718	Number of level 1 events

2.1.4 Events

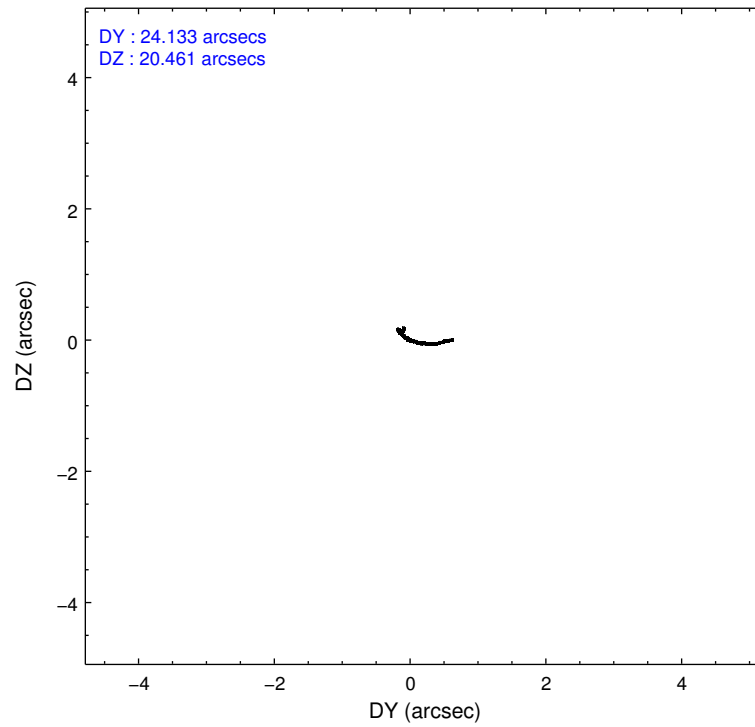
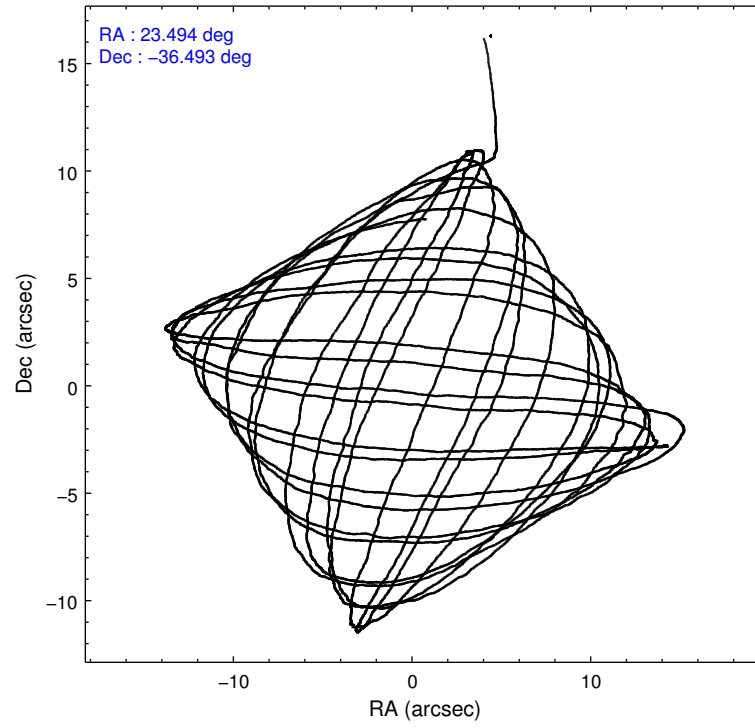
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	61243	60293	77947	81088	162147
rejected events	52549	53424	58746	44379	63639
rejected %	85%	88%	75%	54%	39%

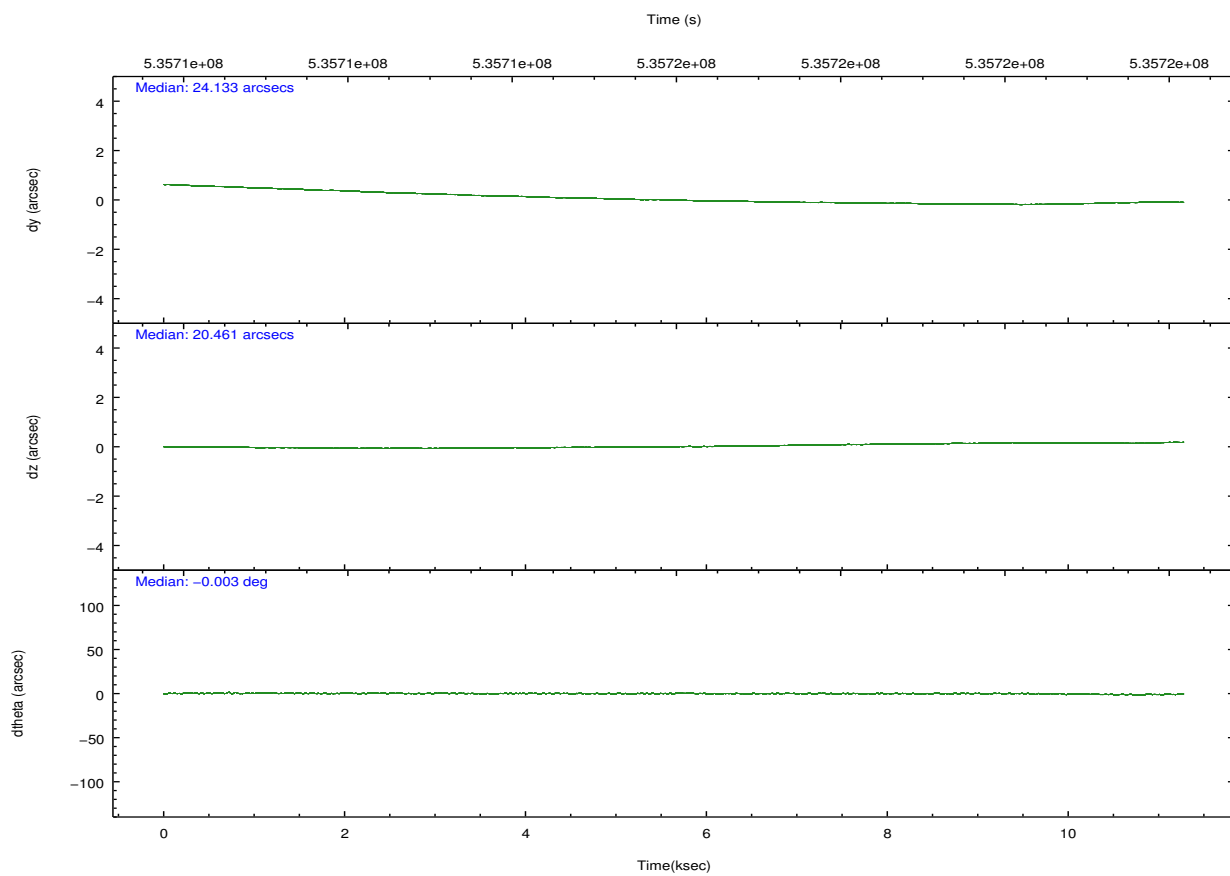
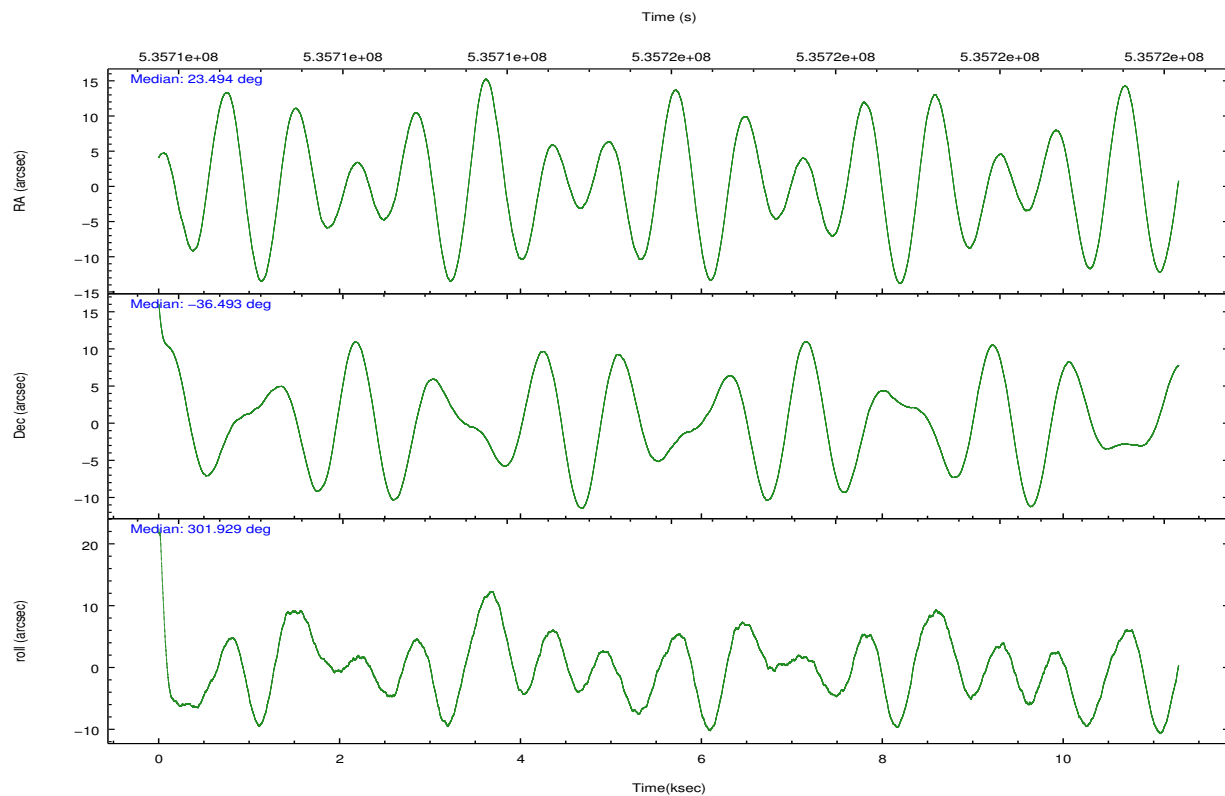
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3824	2822	10957	3751	37669
	6%	4%	14%	4%	23%
grade 1 events	47	31	64	169	328
	0%	0%	0%	0%	0%
grade 2 events	2061	1512	5453	8797	11480
	3%	2%	6%	10%	7%
grade 3 events	632	654	635	2991	18184
	1%	1%	0%	3%	11%
grade 4 events	912	614	659	3106	16802
	1%	1%	0%	3%	10%
grade 5 events	2236	2688	2696	7544	4586
	3%	4%	3%	9%	2%
grade 6 events	1312	1292	1541	18559	15515
	2%	2%	1%	22%	9%
grade 7 events	50219	50680	55942	36171	57583
	81%	84%	71%	44%	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	23.463952	23.49425242230435	CCD I2 on	O1	Y
[deg] Pointing Dec	-36.480828	-36.49337523158661	CCD I3 on	O2	Y
[deg] Pointing Roll	301.767276	301.9419434918788	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	535710721.184000	535709534.27276	CCD S5 on	N	N
Observation start date	2014-12-23T08:30:54	2014-12-23T08:12:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535746721.184000	535721613.89843	On-chip summing requested	N	N
Observation end date	2014-12-23T18:30:54	2014-12-23T11:33:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



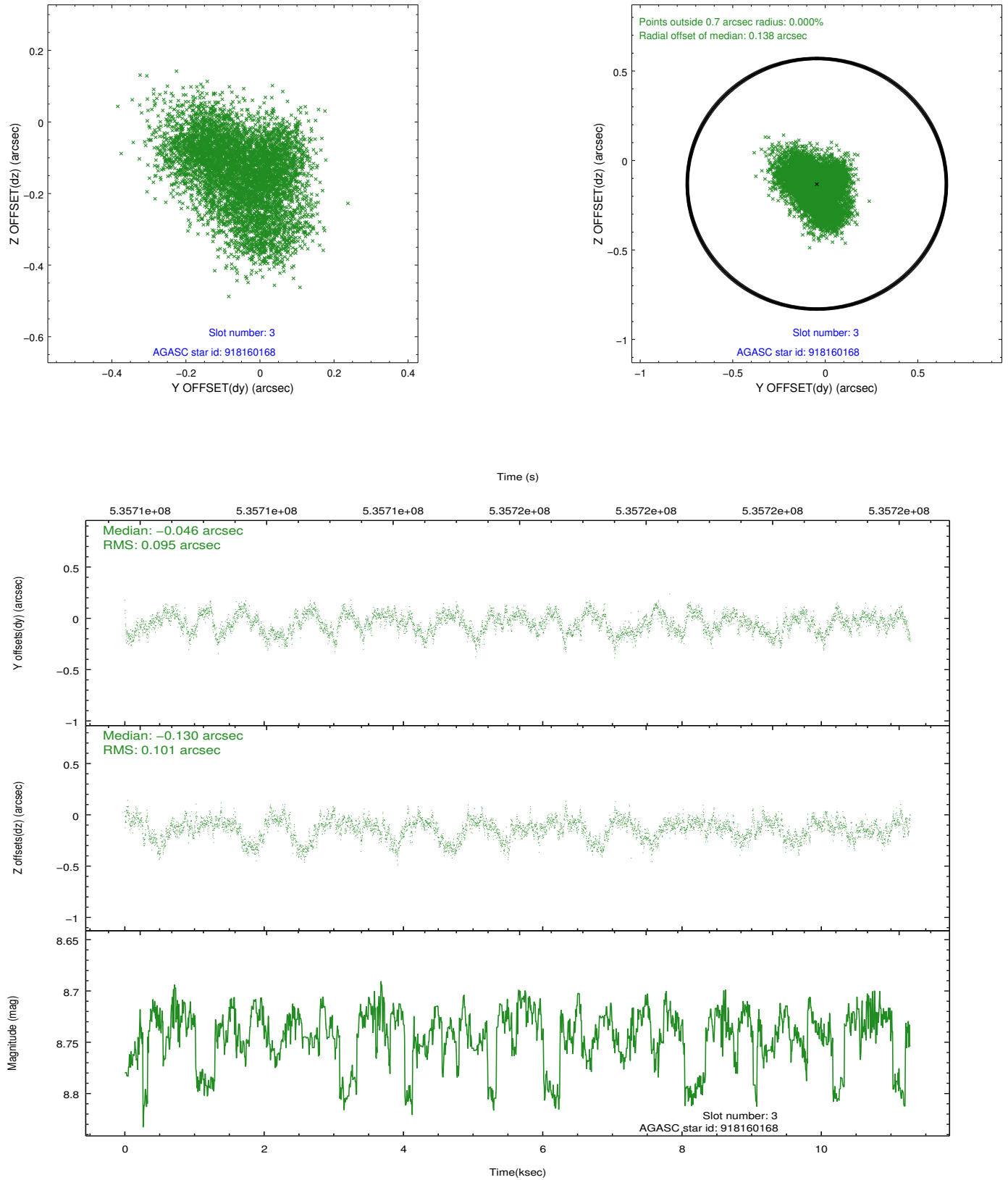


Slot Statistics

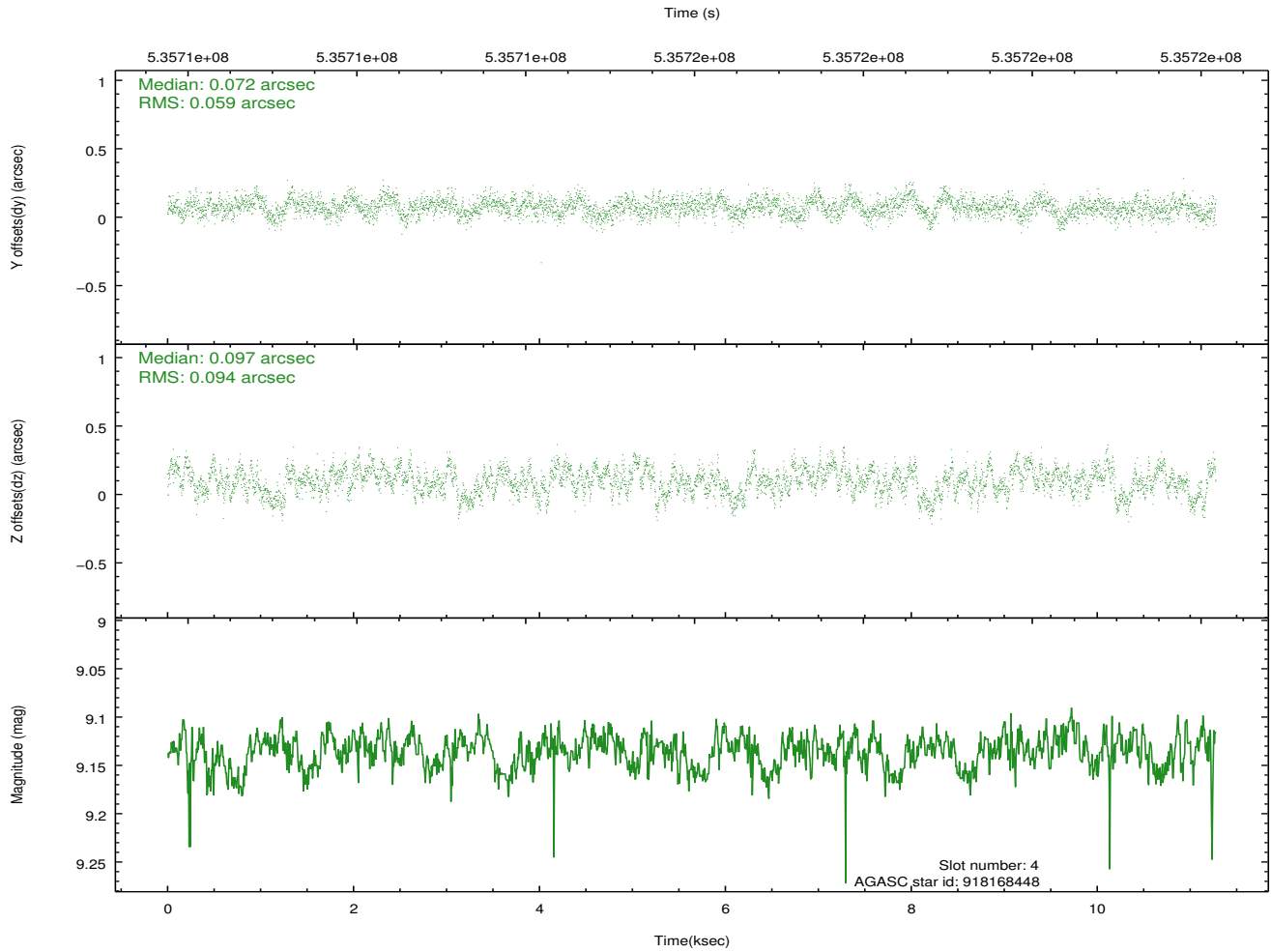
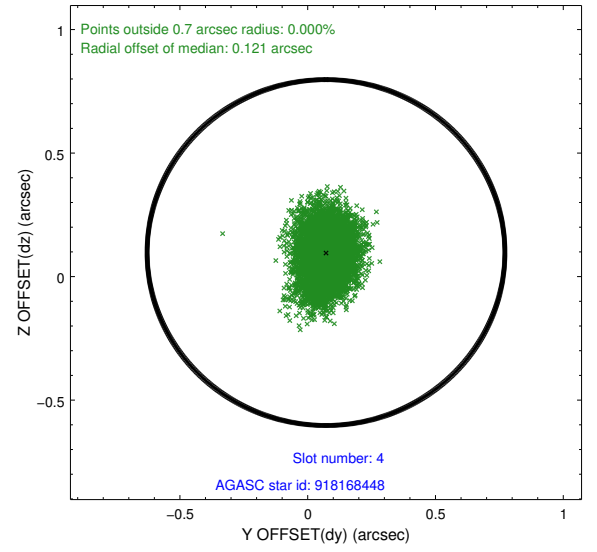
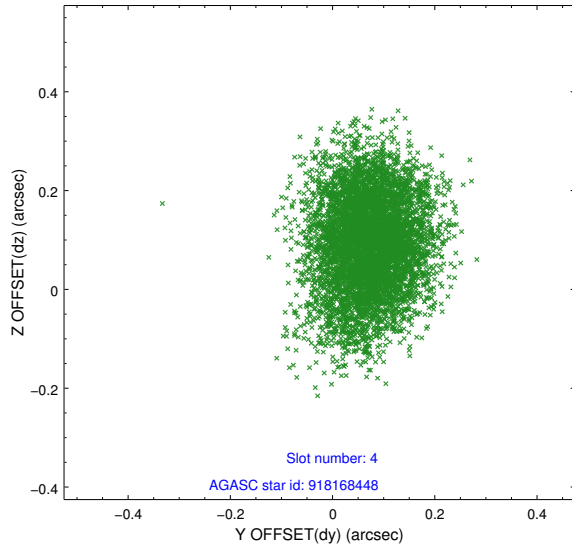
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	2750	-0.189	-0.056	0.012	0.019	0.000000	0.000000	-777.65	-1742.07
1	FID		ACIS-S-4	7.13	2750	0.394	0.107	0.009	0.015	0.000000	0.000000	2136.03	166.07
2	FID		ACIS-S-5	7.14	2751	-0.236	-0.042	0.009	0.017	0.000000	0.000000	-1829.93	160.16
3	GUIDE	used	918160168	8.74	5499	-0.046	-0.130	0.150	0.236	23.069350	-37.115539	1349.39	-2167.03
4	GUIDE	used	918168448	9.14	5500	0.072	0.097	0.118	0.193	23.296229	-36.409984	-470.99	-278.39
5	GUIDE	used	918170416	9.31	5491	-0.318	-0.193	0.181	0.289	23.996053	-36.004511	-638.14	2219.41
6	GUIDE	used	918175752	9.10	5499	0.175	0.425	0.149	0.222	22.609355	-36.292834	-1870.48	-1757.21
7	GUIDE	used	918161672	9.08	5498	0.135	-0.198	0.156	0.257	23.102425	-37.284569	1917.71	-2404.29

2.4 Star Slots

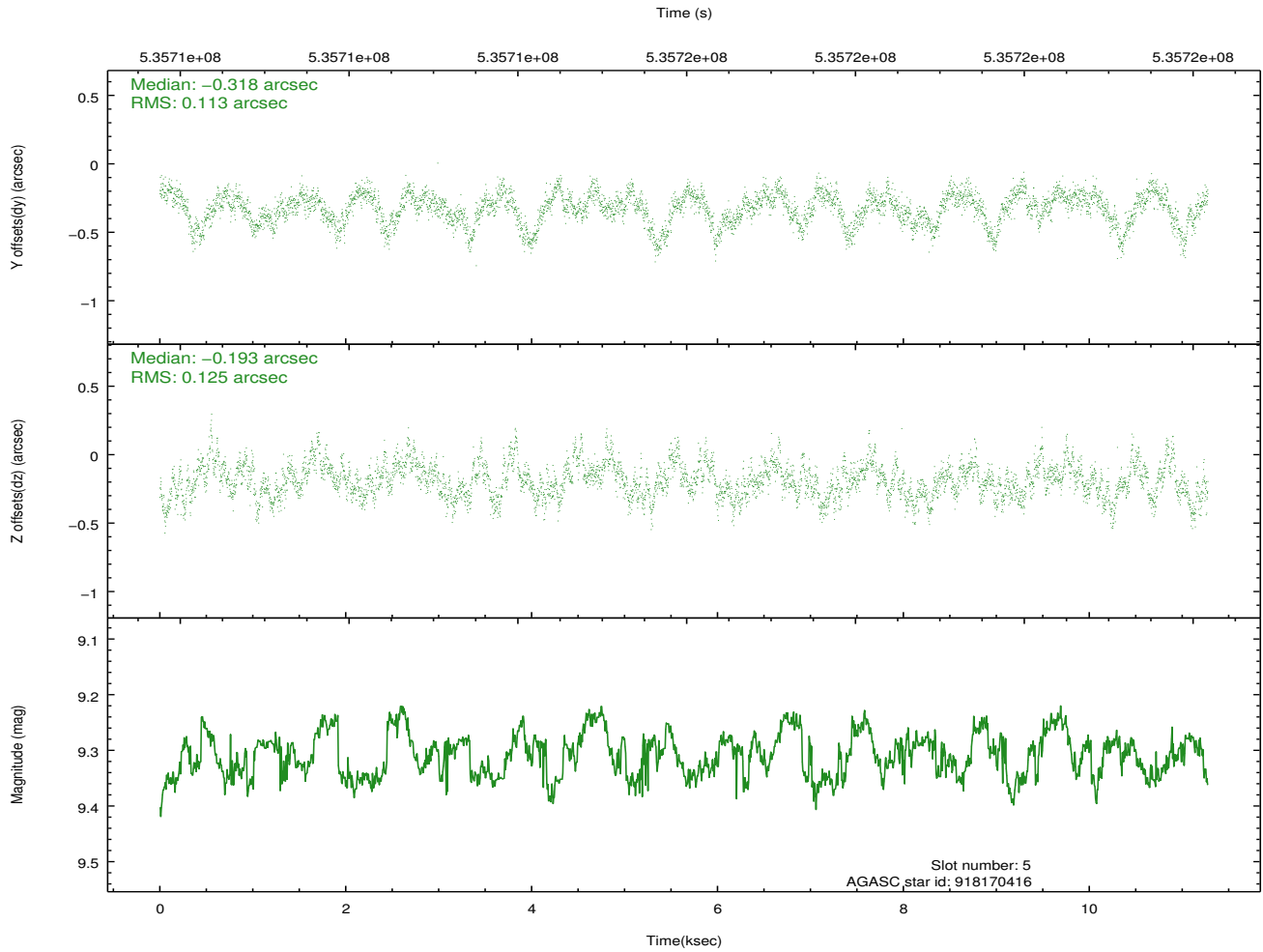
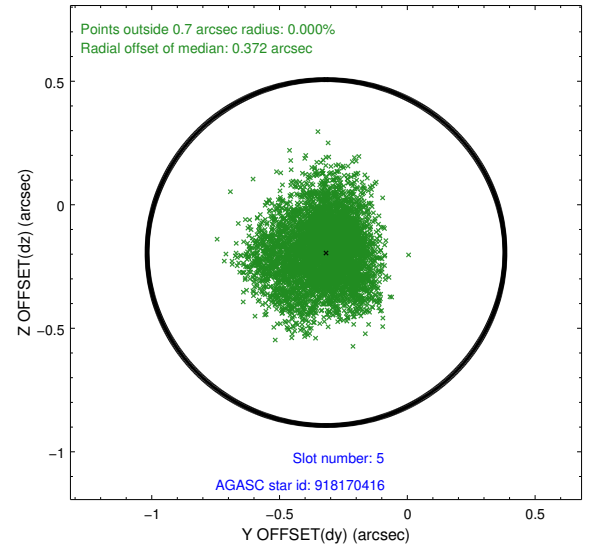
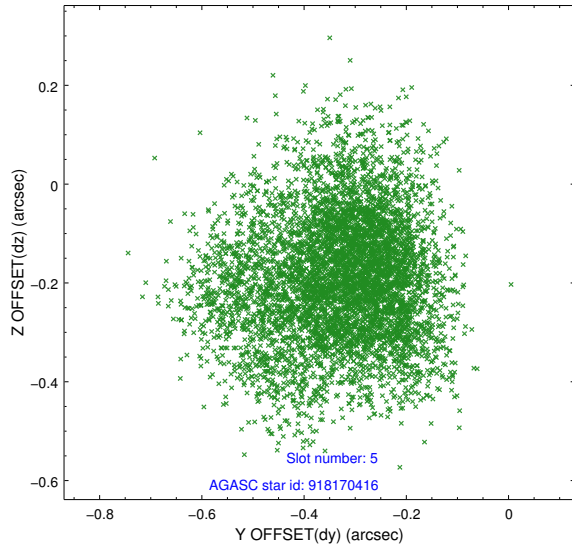
2.4.1 Slot 3



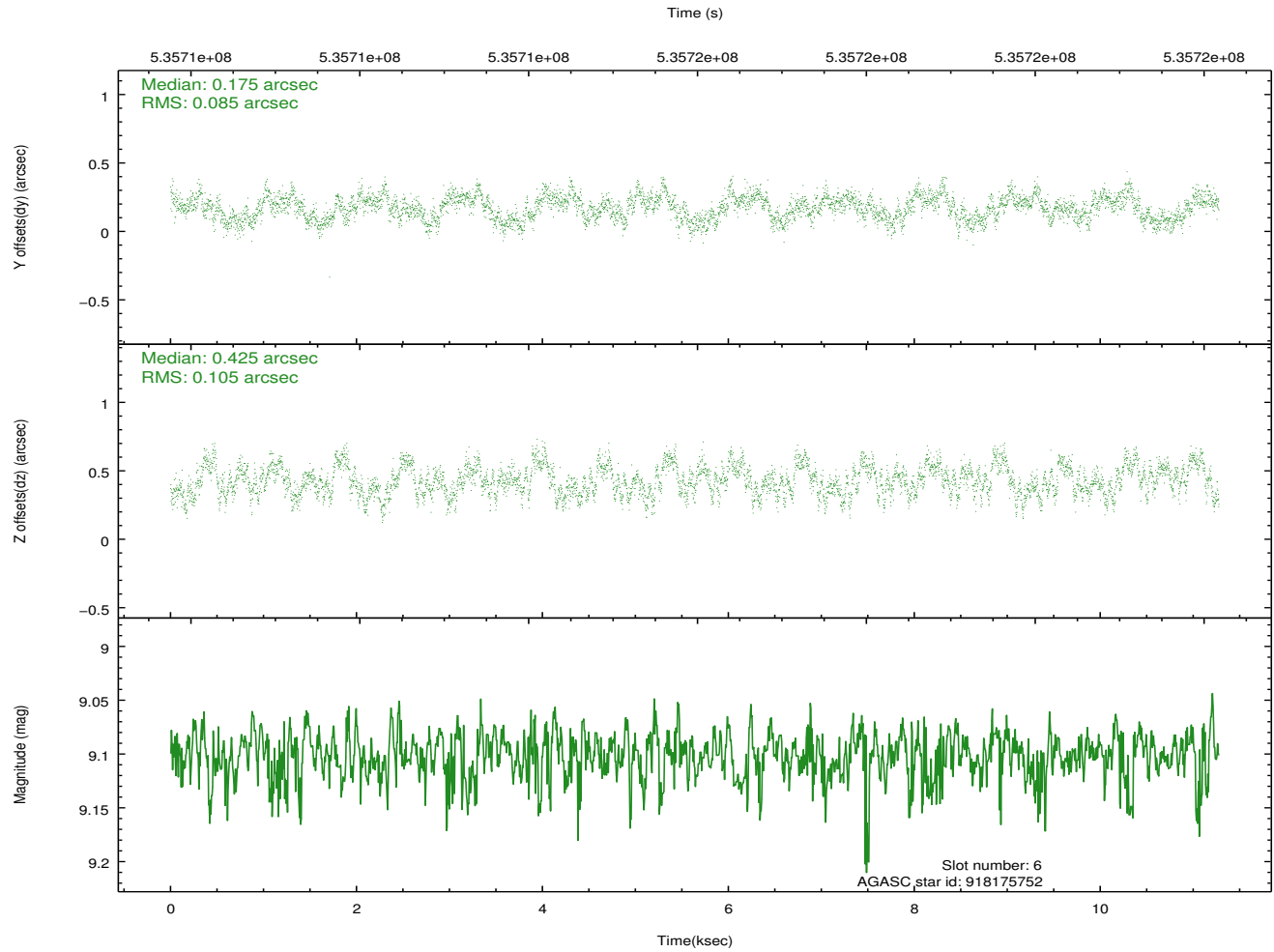
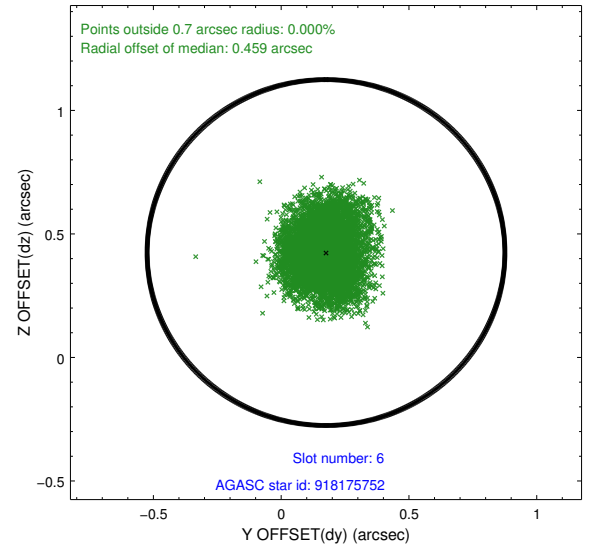
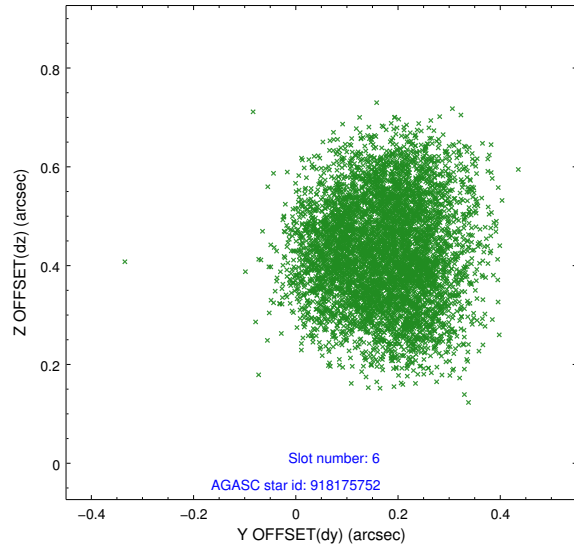
2.4.2 Slot 4



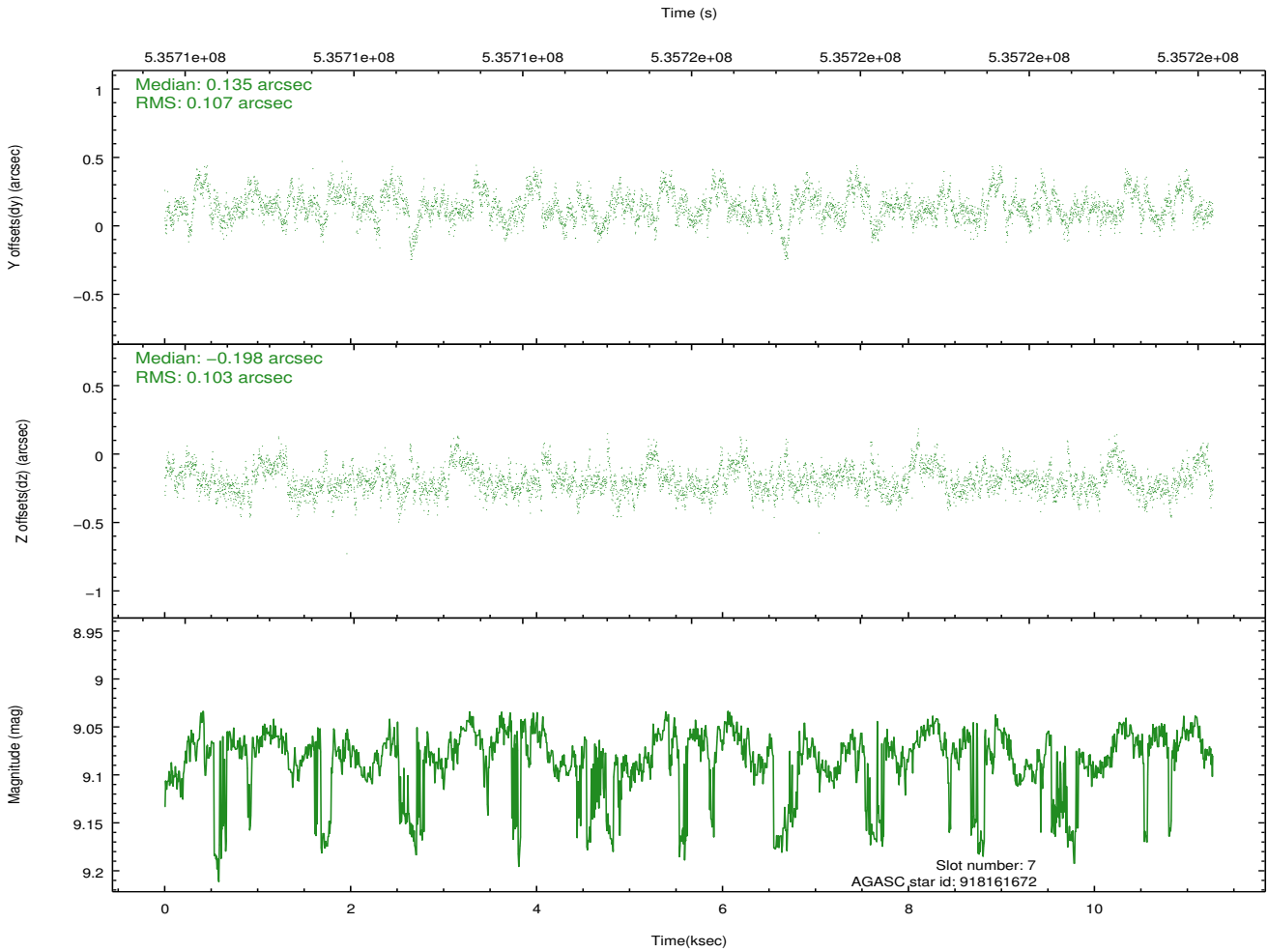
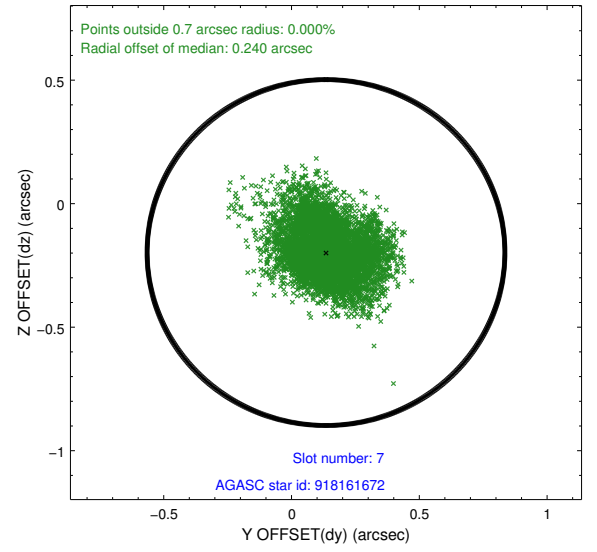
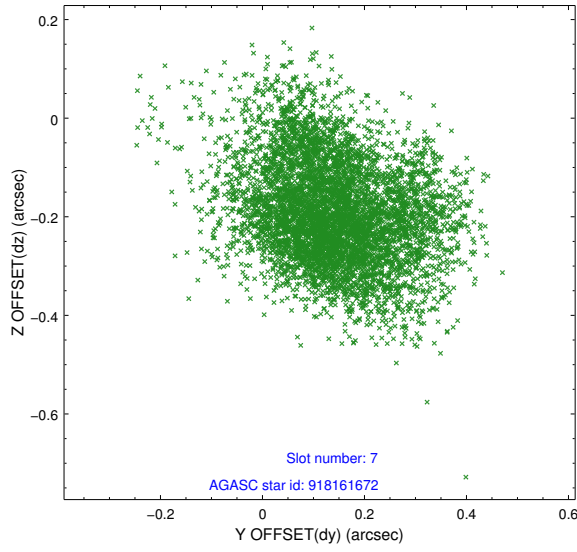
2.4.3 Slot 5



2.4.4 Slot 6

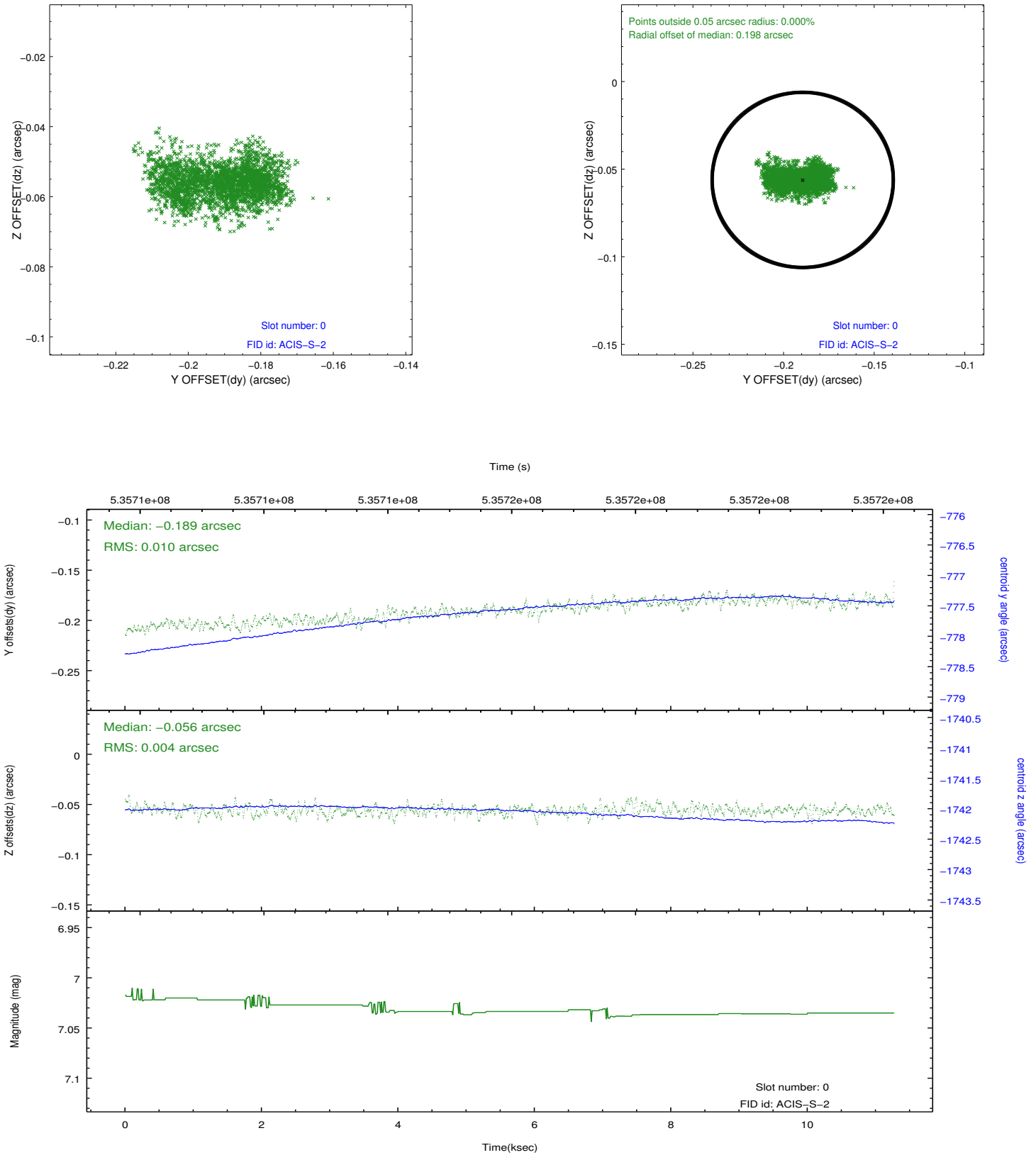


2.4.5 Slot 7

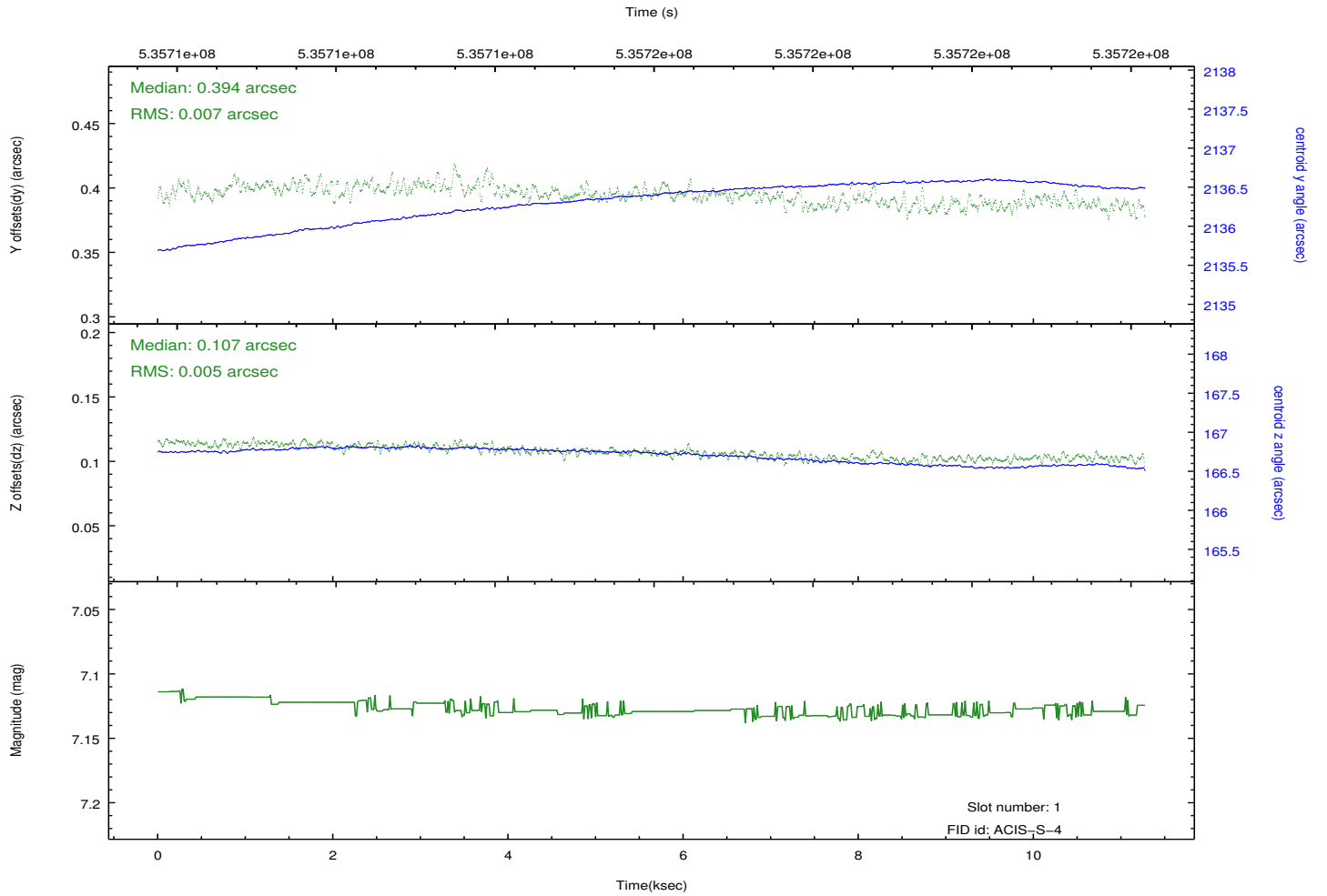
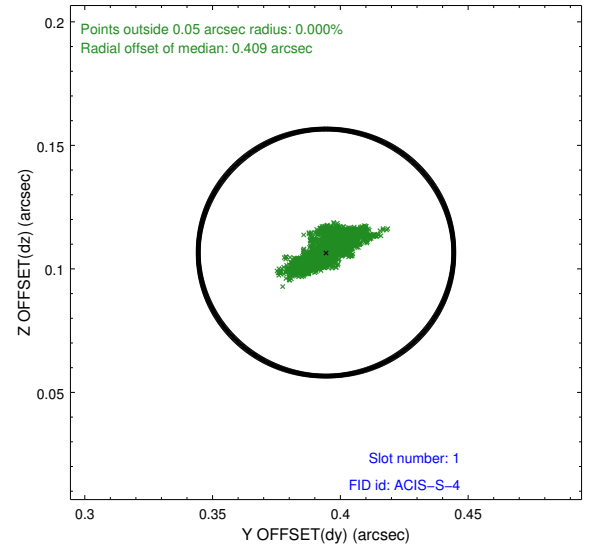
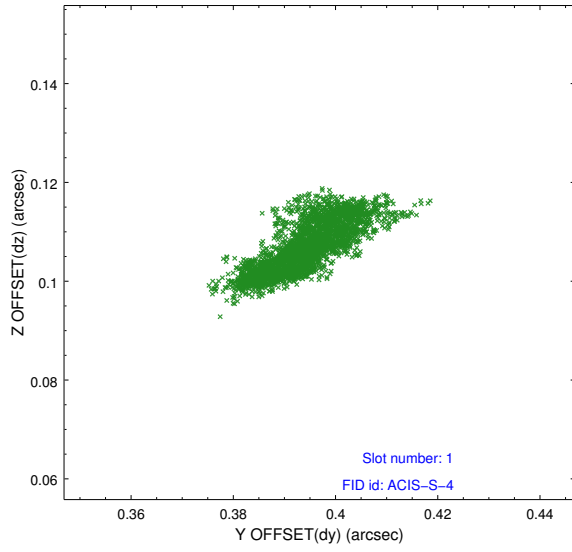


2.5 FID Slots

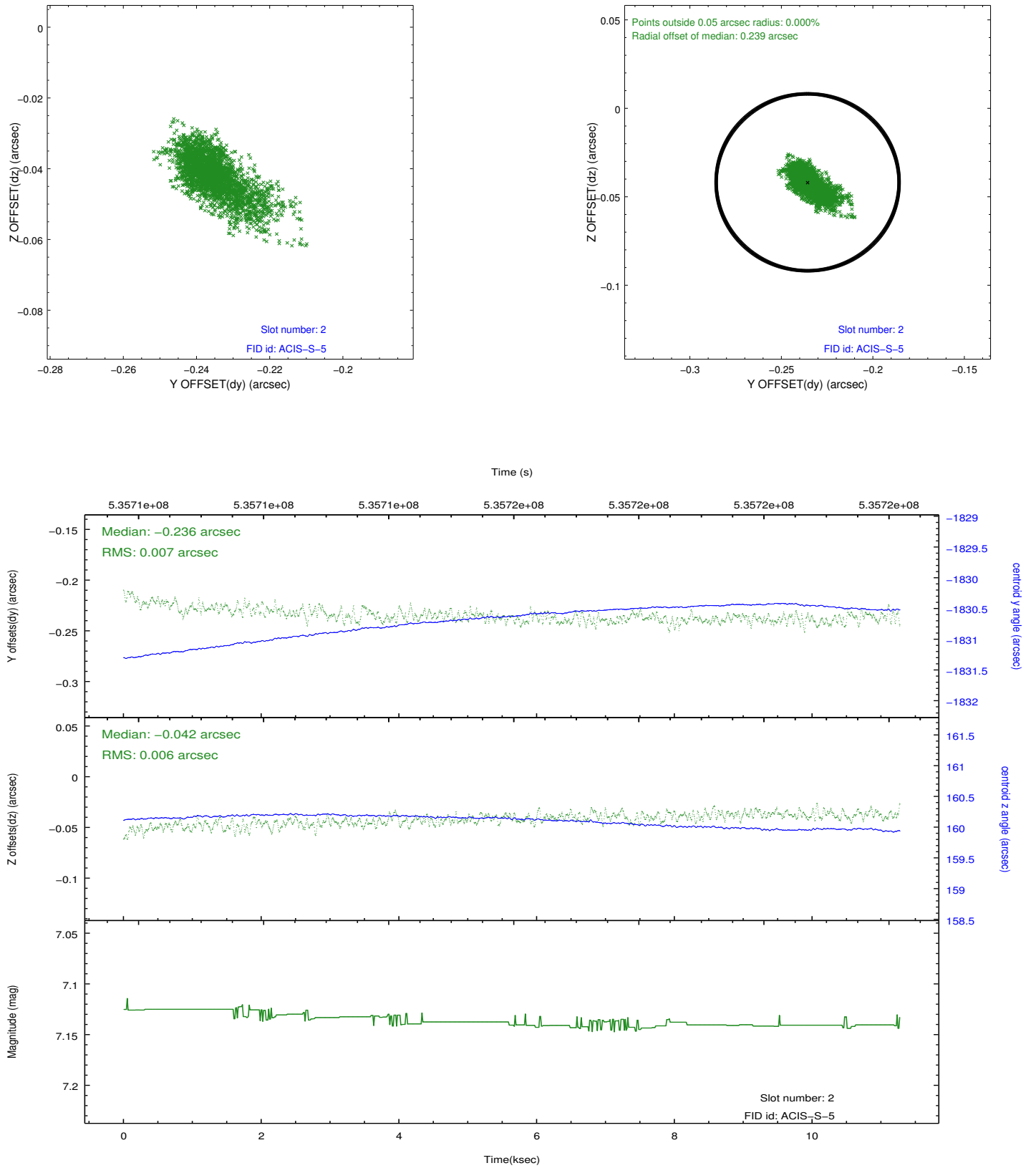
2.5.1 Slot 0



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)	2014.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.924400084019

A.2 Comments

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2014:357:11:32:25z. Due to a high radiation environment, the instruments were safed and the observation terminated early.