

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15162 - L2 Version 2
Chandra X-Ray Center

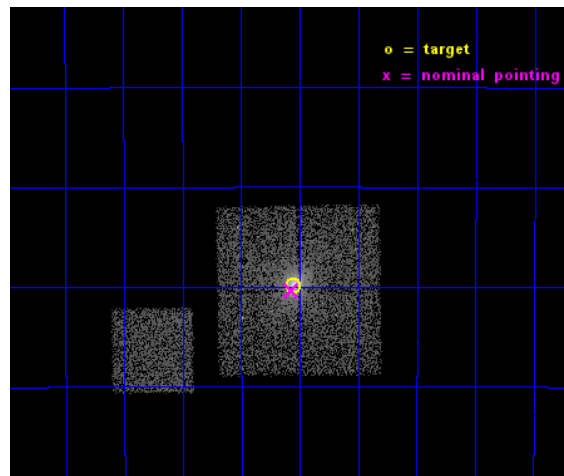
L2 Processing Date : Nov 30 2014

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

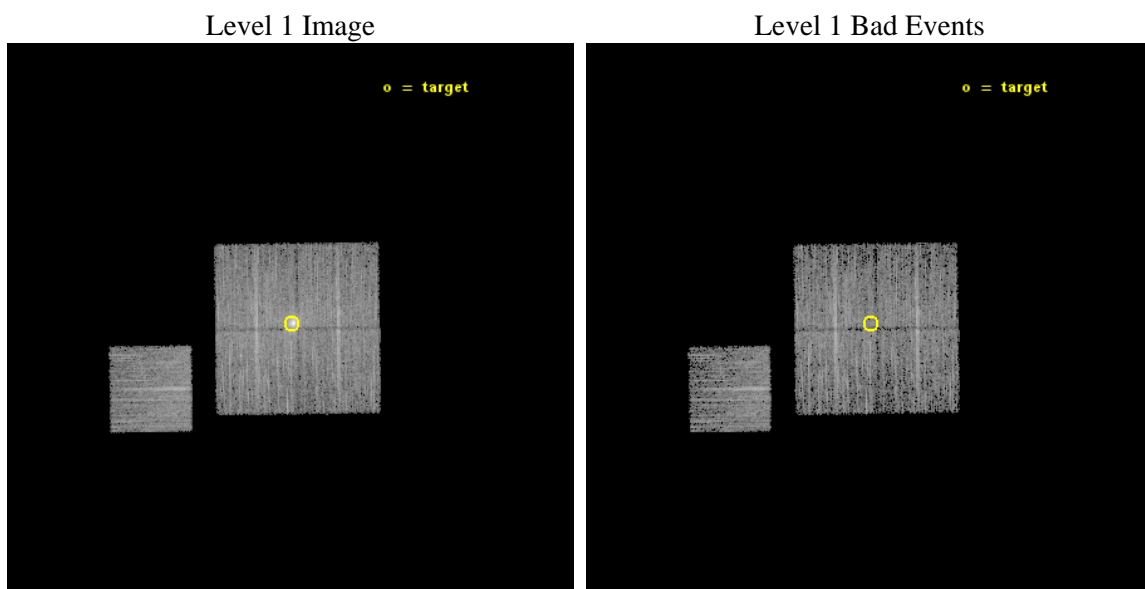
seq_num	801290	Sequence number
obs_id	15162	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	A3866	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	335.14	Observer's specified target RA [deg]
dec_targ	-35.165	Observer's specified target Dec [deg]
ra_nom	335.14280383286	Nominal RA [deg]
dec_nom	-35.172795496832	Nominal Dec [deg]
roll_nom	269.2102829658	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9082.050506711	Sum of GTIs [s]
livetime	8963.3868307325	Livetime [s]
ontime0	9081.9273867011	Sum of GTIs [s]
ontime1	9078.8274663091	Sum of GTIs [s]
ontime2	9082.0094667077	Sum of GTIs [s]
ontime3	9082.050506711	Sum of GTIs [s]
ontime6	9081.8863466978	Sum of GTIs [s]
l2events	31880	Number of level 2 events



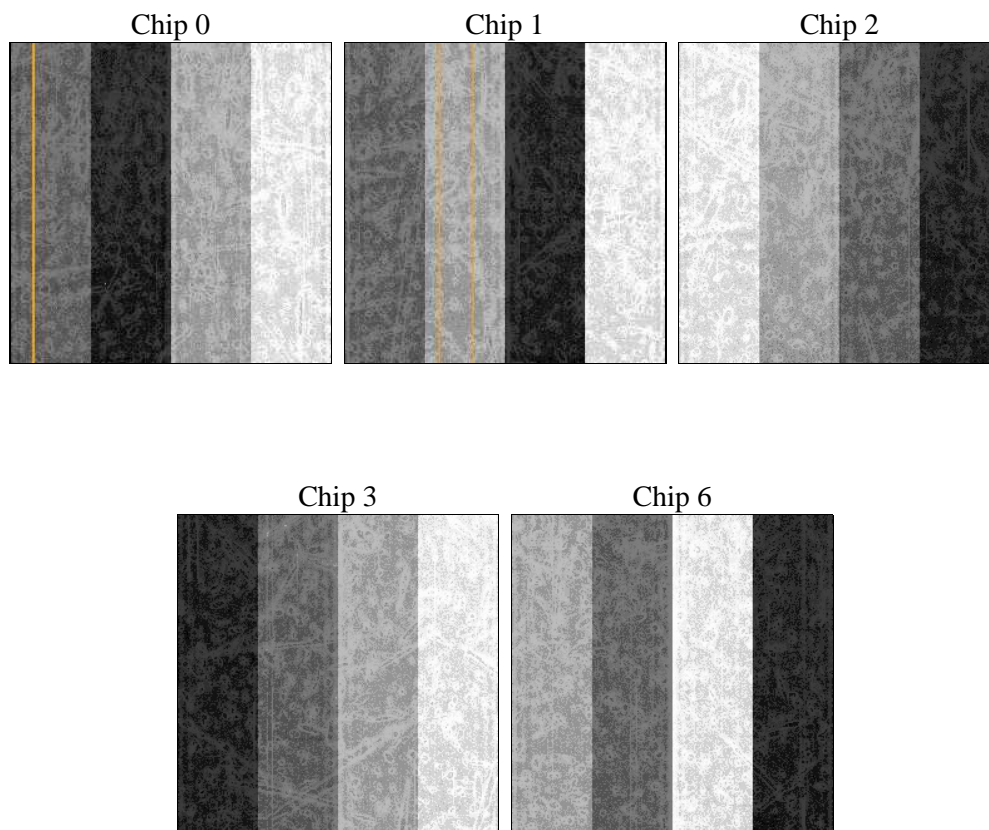
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9082.050506711	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	9081.9273867011	Sum of GTIs [s]
date	2014-11-30T07:31:09	Date and time of file creation	ontime1	9078.8274663091	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9082.0094667077	Sum of GTIs [s]
			ontime3	9082.050506711	Sum of GTIs [s]
			ontime6	9081.8863466978	Sum of GTIs [s]
			l1events	226590	Number of level 1 events

2.1.4 Events

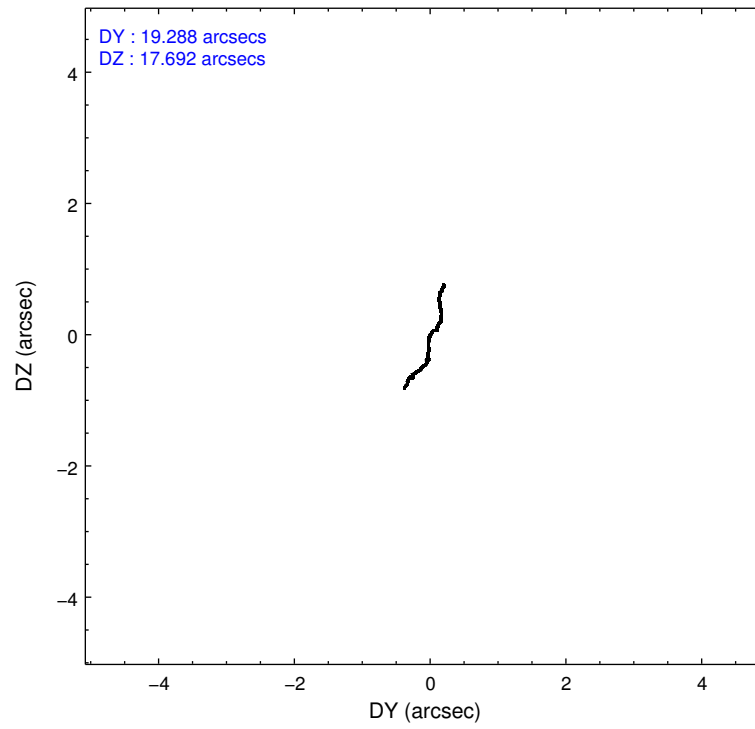
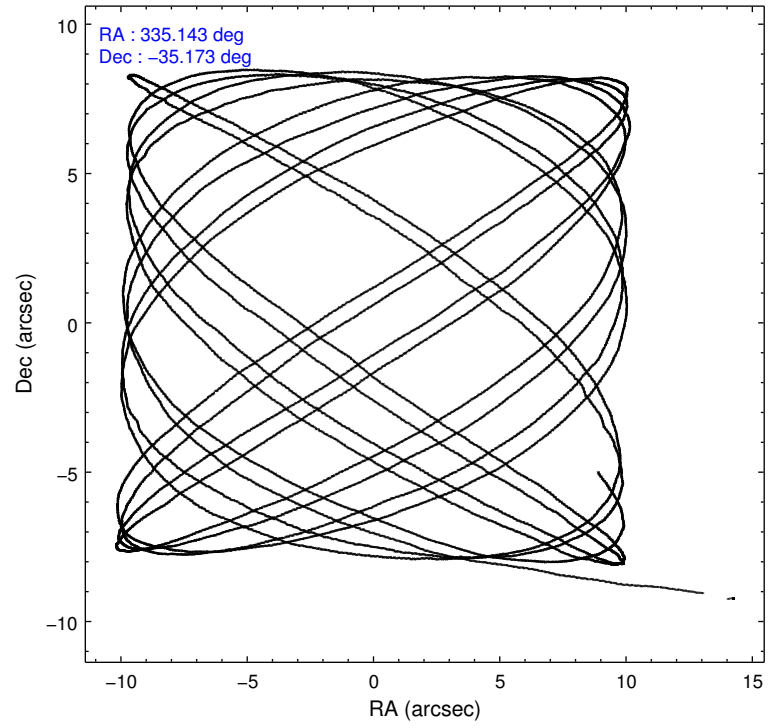
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	40745	43666	47694	51111	43374
rejected events	35277	36838	41326	38732	38121
rejected %	86%	84%	86%	75%	87%

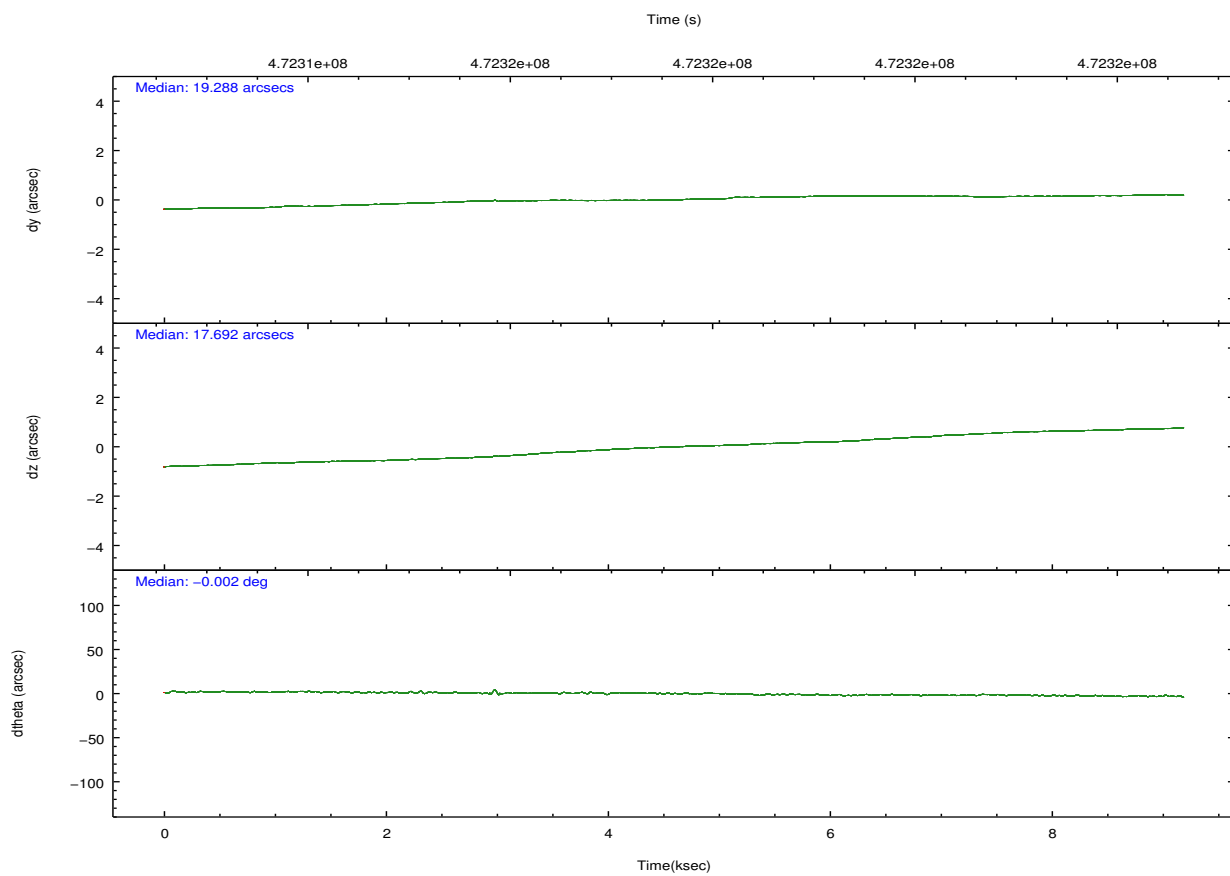
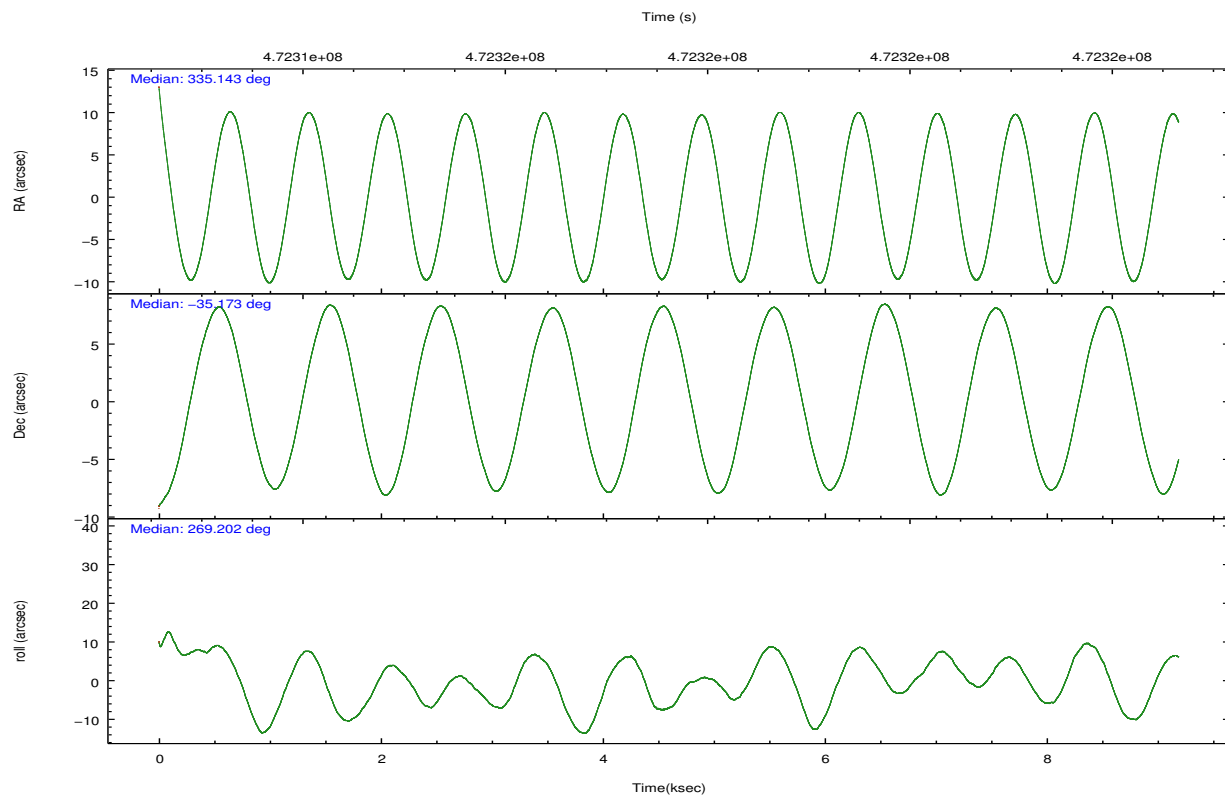
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2054	3115	3035	7993	1921
	5%	7%	6%	15%	4%
grade 1 events	28	28	22	62	27
	0%	0%	0%	0%	0%
grade 2 events	1354	1390	1427	1816	1167
	3%	3%	2%	3%	2%
grade 3 events	537	559	507	709	546
	1%	1%	1%	1%	1%
grade 4 events	527	580	503	727	527
	1%	1%	1%	1%	1%
grade 5 events	1780	1916	1659	2020	1988
	4%	4%	3%	3%	4%
grade 6 events	1006	1190	897	1148	1096
	2%	2%	1%	2%	2%
grade 7 events	33459	34888	39644	36636	36102
	82%	79%	83%	71%	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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	335.126283	335.1428038328628	CCD I2 on	Y	Y
[deg] Pointing Dec	-35.148798	-35.17279549683216	CCD I3 on	Y	Y
[deg] Pointing Roll	268.992100	269.2102829657999	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)	472313208.184000	472312236.32095	CCD S5 on	N	N
Observation start date	2012-12-19T14:05:41	2012-12-19T13:50:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	472322208.184000	472323266.34655	On-chip summing requested	N	N
Observation end date	2012-12-19T16:35:41	2012-12-19T16:54:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



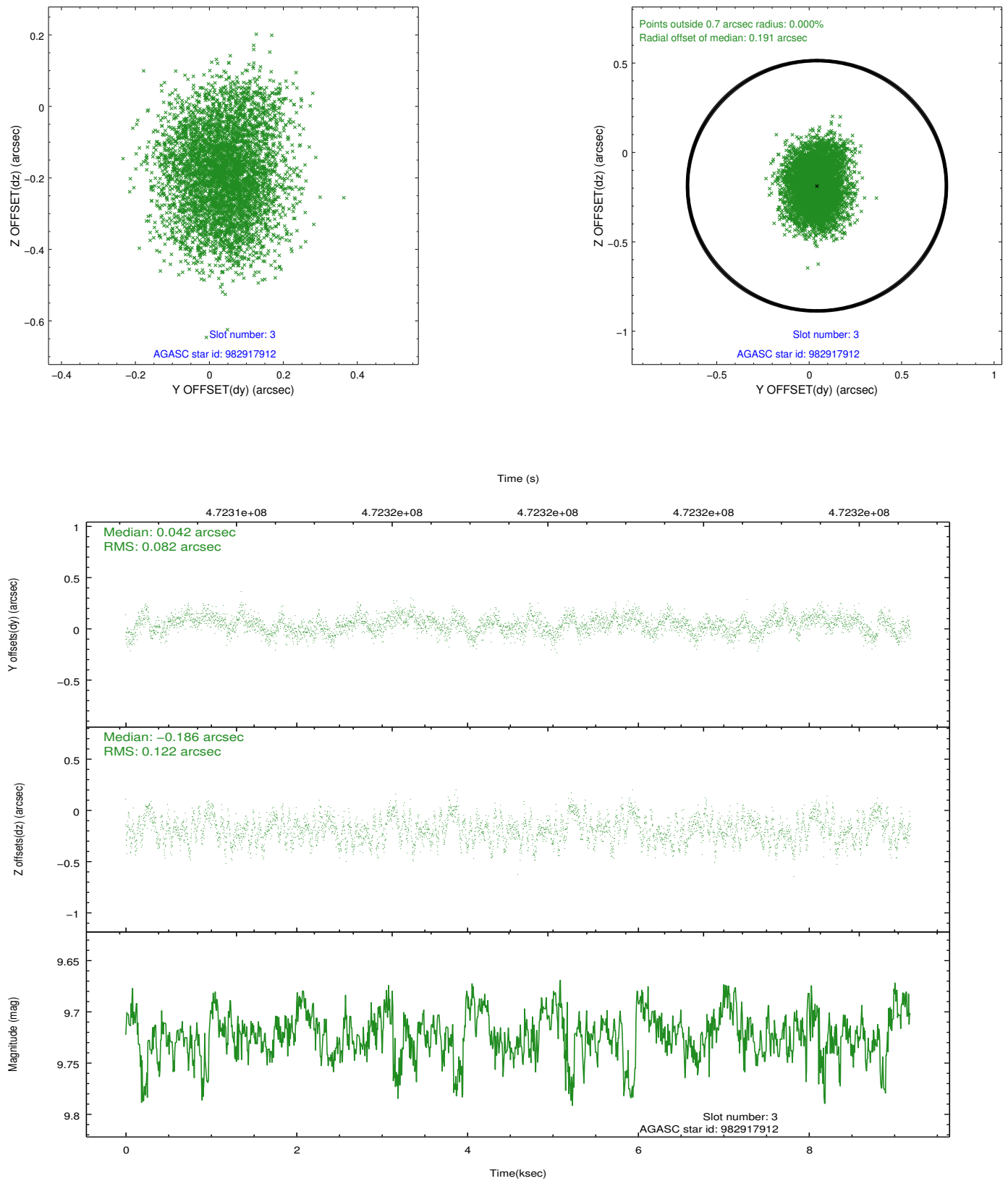


Slot Statistics

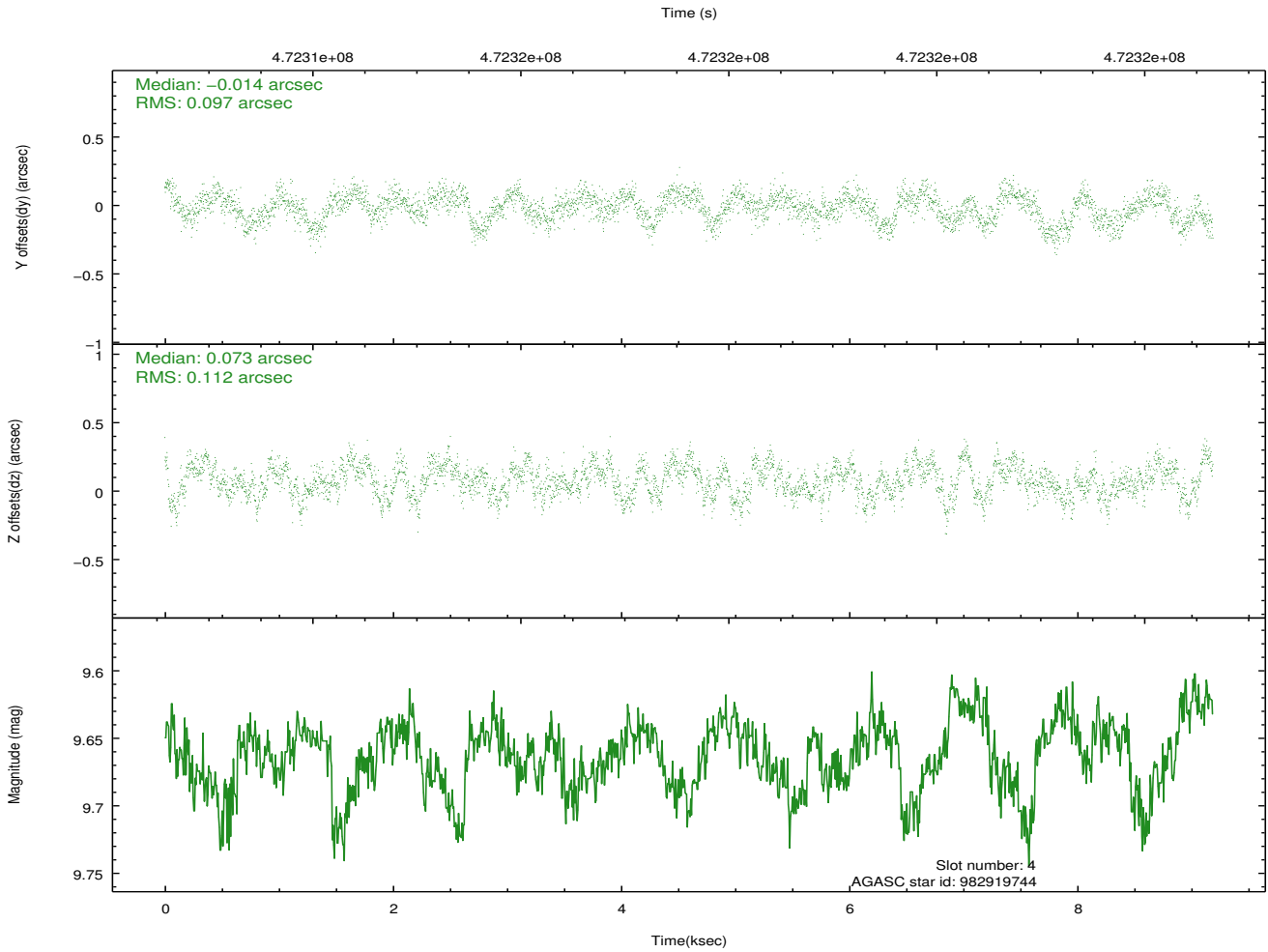
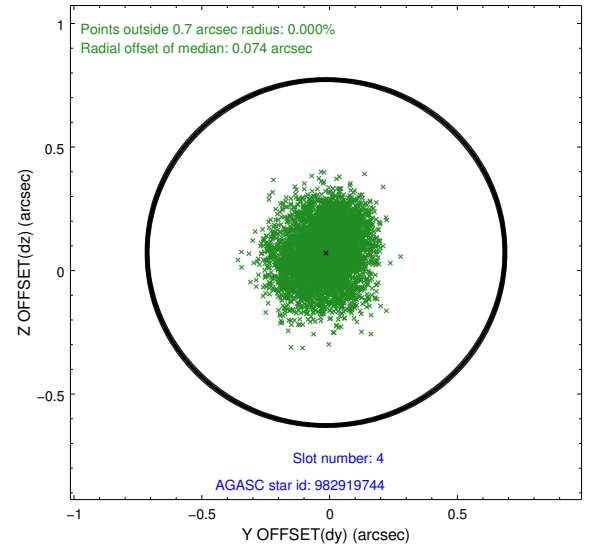
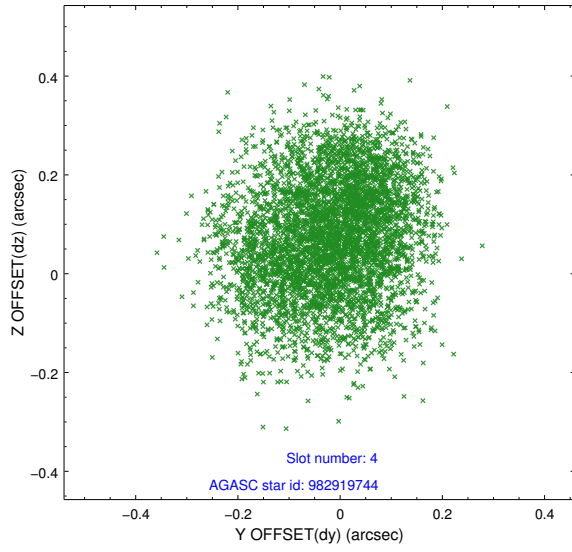
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	2242	0.075	-0.007	0.028	0.036	0.000000	0.000000	920.14	-841.33
1	FID		ACIS-I-5	7.09	2242	-0.282	0.064	0.009	0.016	0.000000	0.000000	-1828.01	1055.91
2	FID		ACIS-I-6	7.10	2242	0.117	0.012	0.021	0.032	0.000000	0.000000	385.07	1701.05
3	GUIDE	used	982917912	9.72	4476	0.042	-0.186	0.160	0.249	334.438441	-34.766194	-1333.89	-2057.92
4	GUIDE	used	982919744	9.66	4481	-0.014	0.073	0.162	0.244	335.282202	-34.996167	-557.10	449.98
5	GUIDE	used	982920104	6.73	4483	-0.171	0.067	0.074	0.114	335.185479	-34.516572	-2278.41	135.08
6	GUIDE	used	982920192	9.80	4471	0.072	0.062	0.149	0.245	335.825127	-34.790821	-1318.12	2043.80
7	GUIDE	used	983309136	9.08	4481	0.080	-0.015	0.105	0.165	334.834023	-35.533502	1401.29	-830.46

2.4 Star Slots

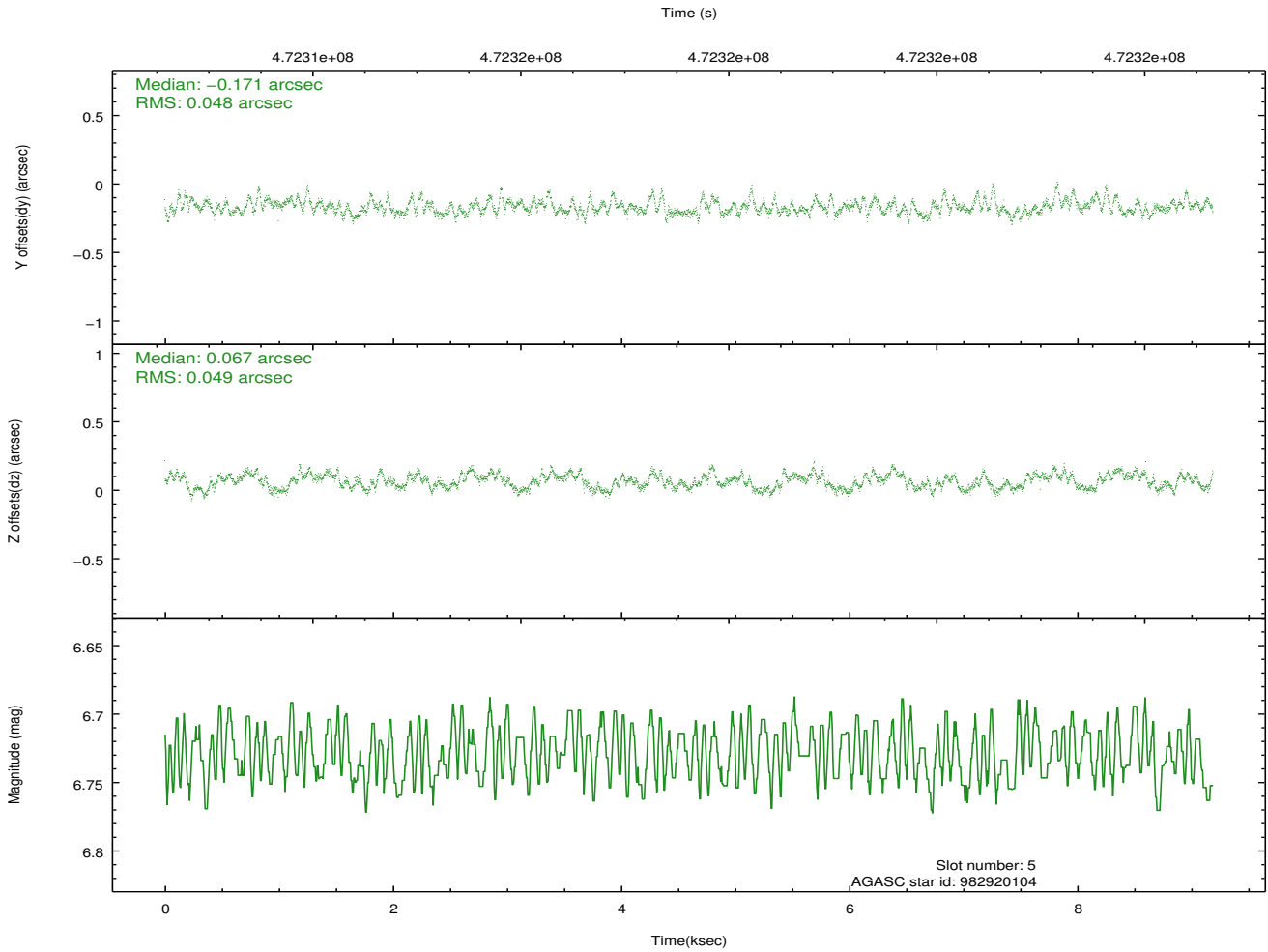
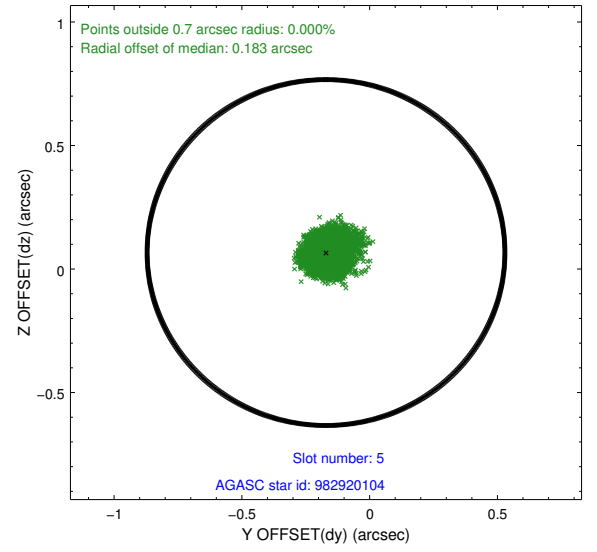
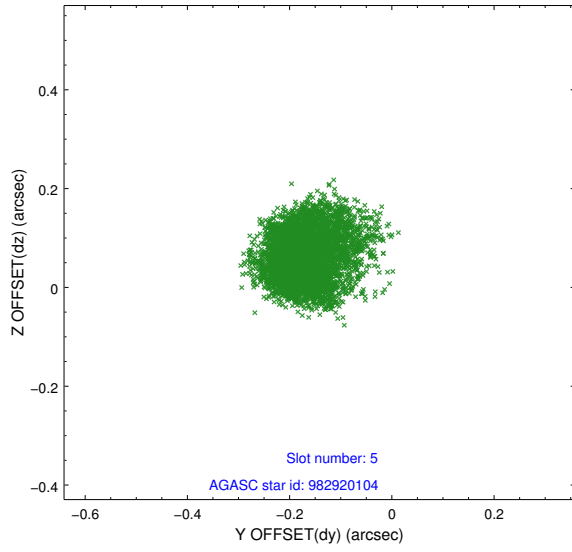
2.4.1 Slot 3



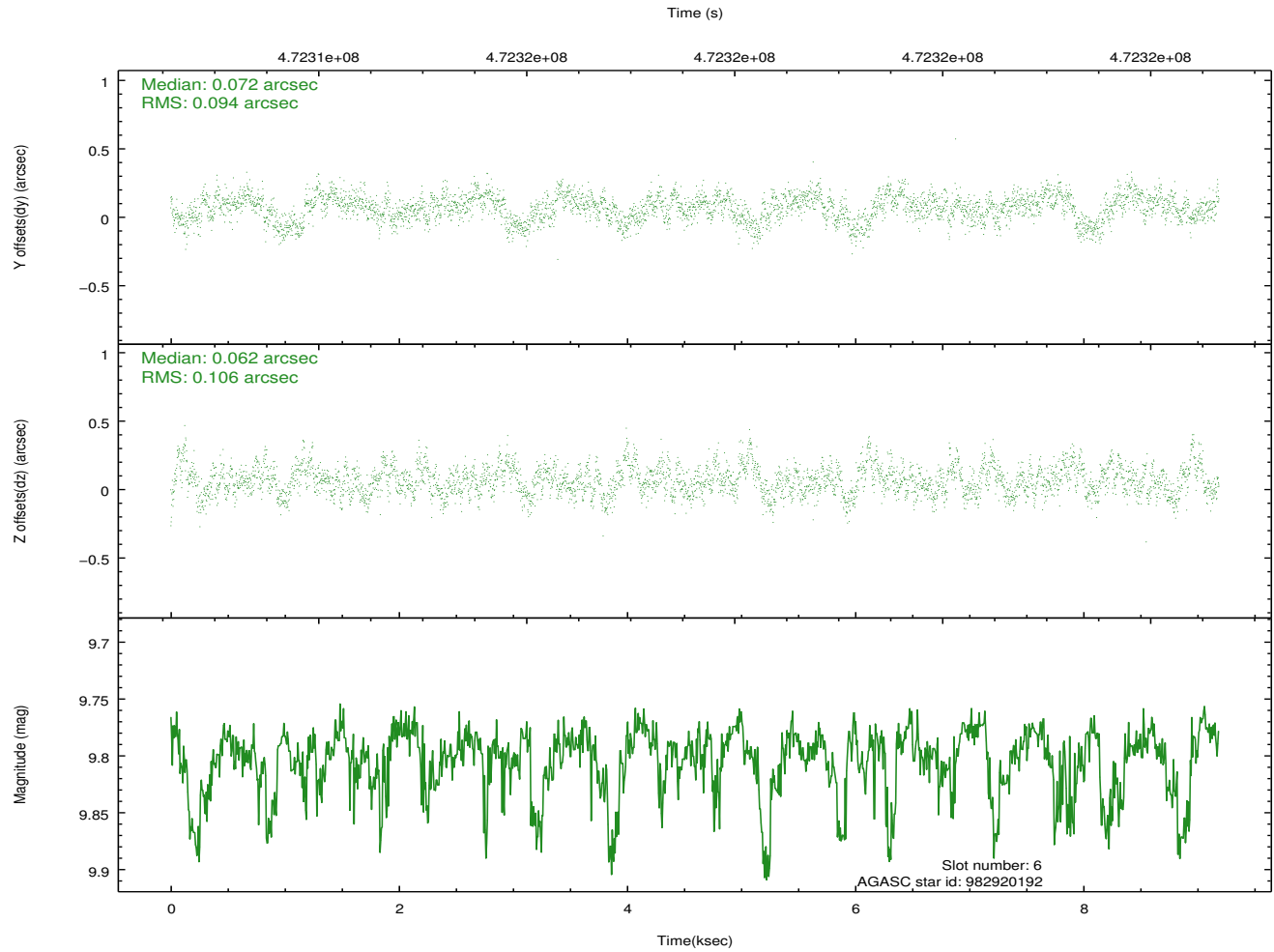
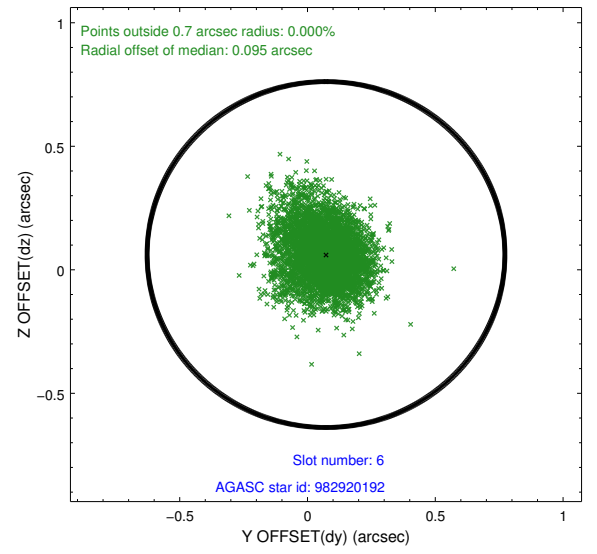
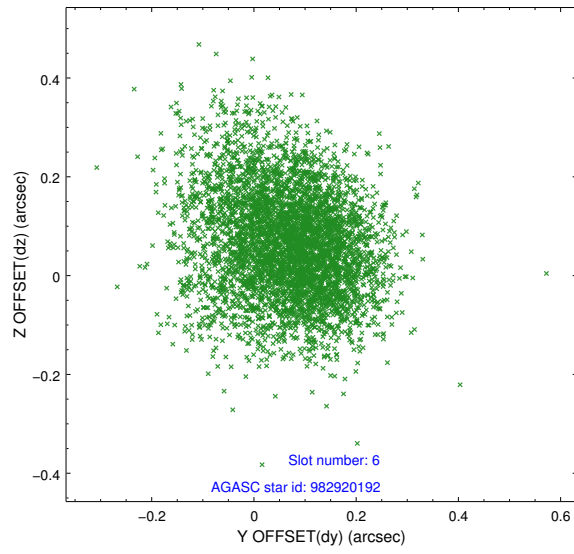
2.4.2 Slot 4



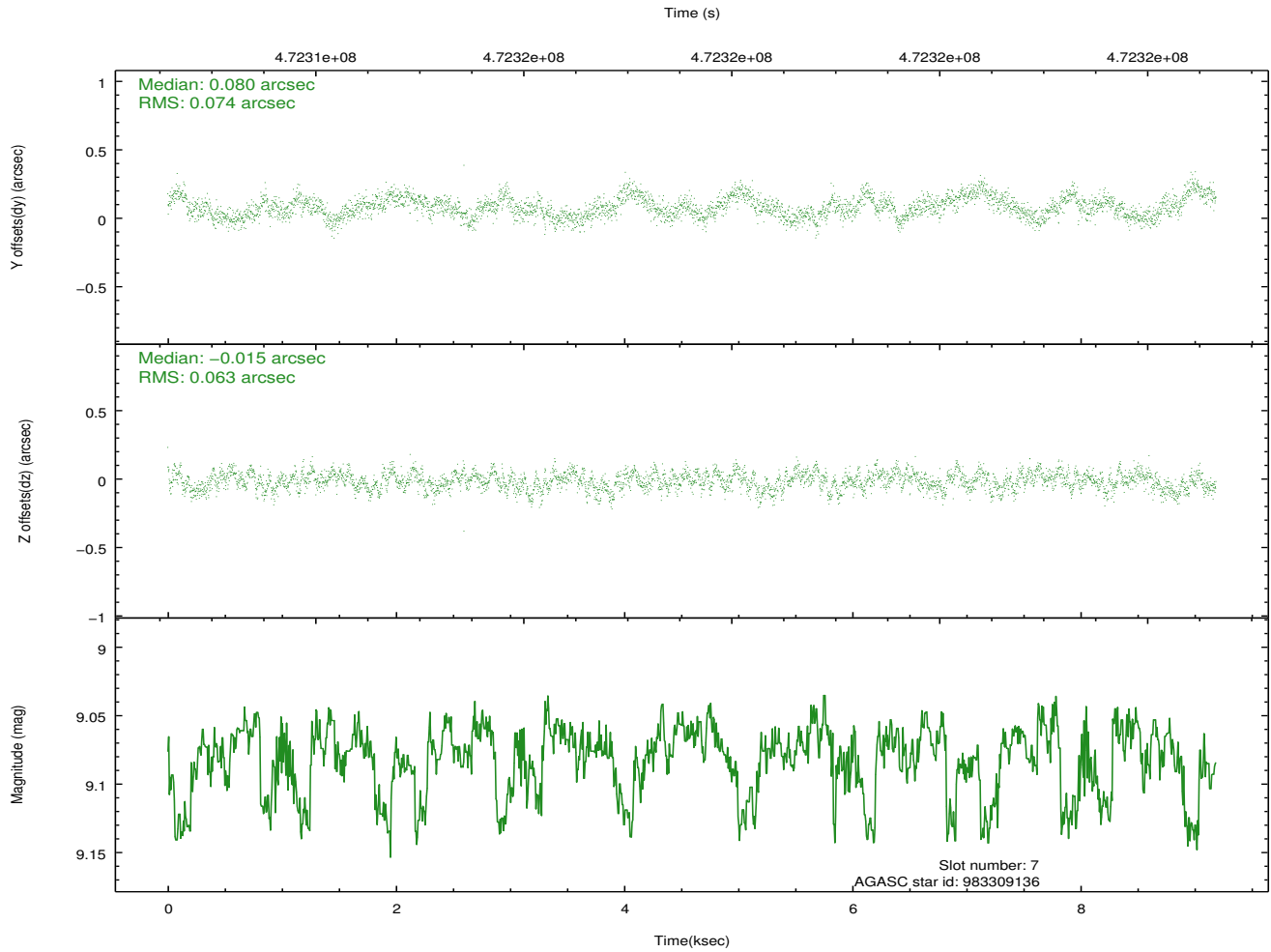
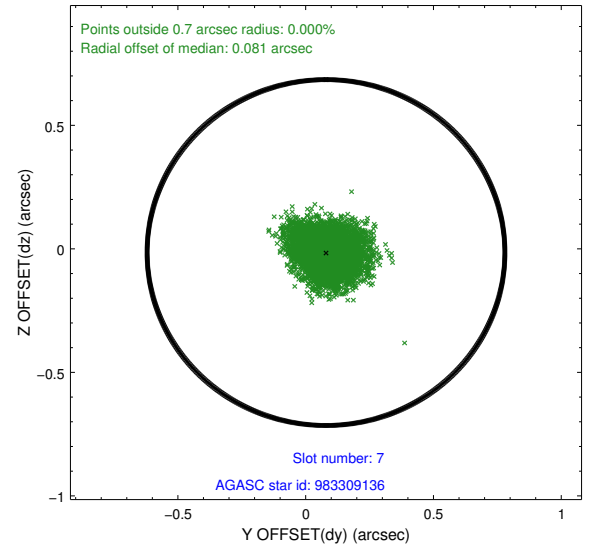
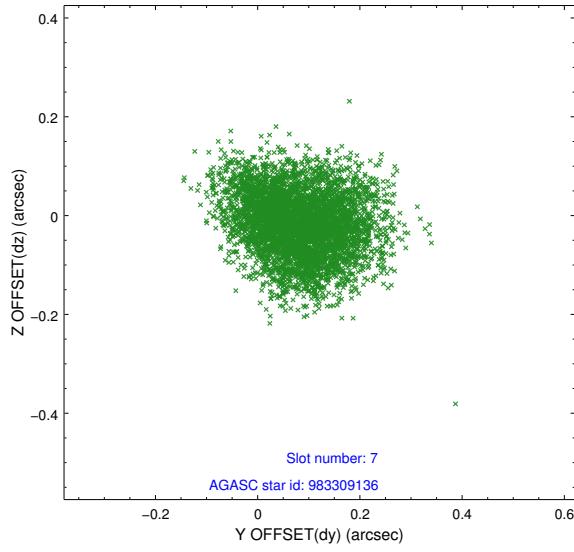
2.4.3 Slot 5



2.4.4 Slot 6

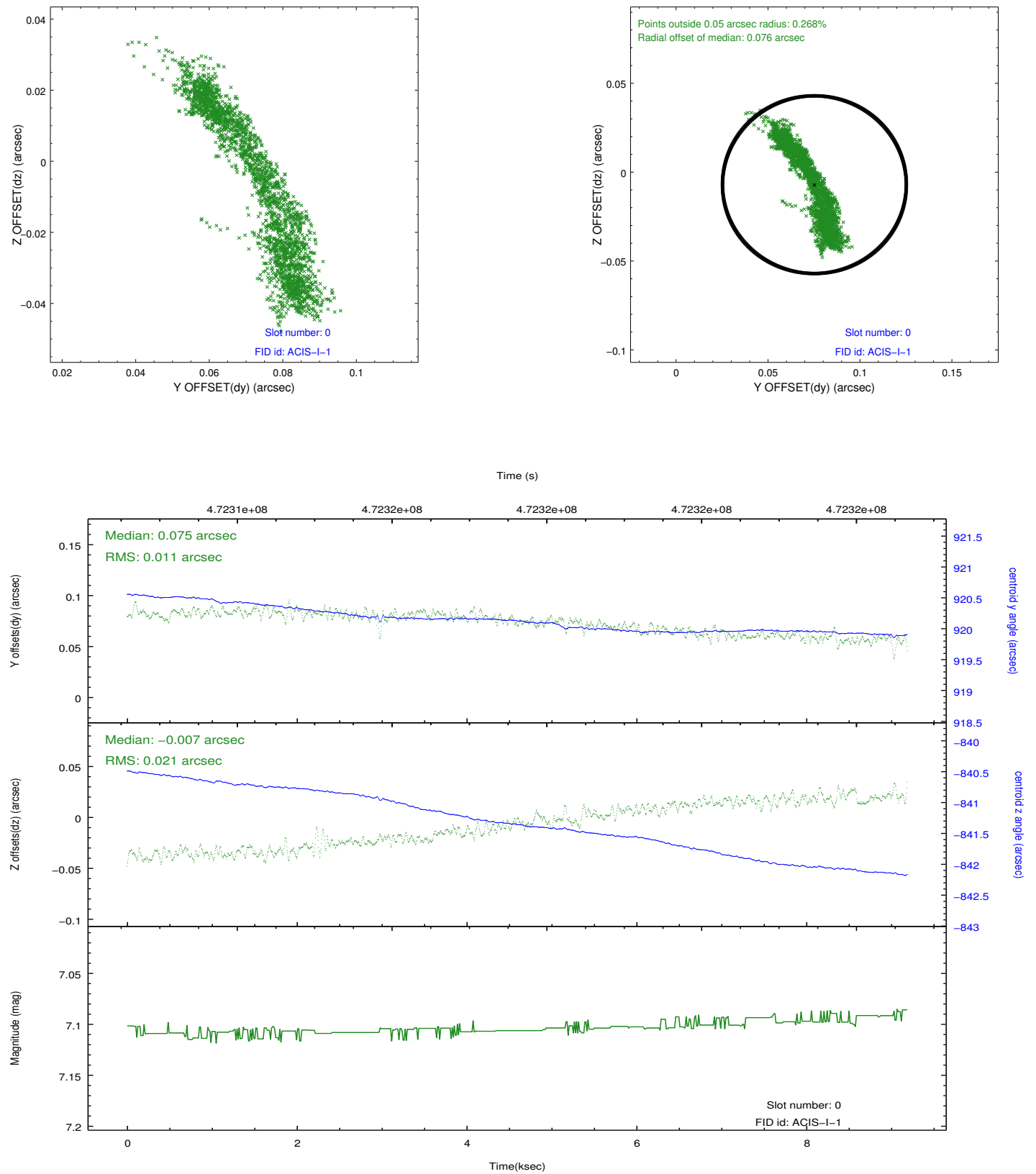


2.4.5 Slot 7

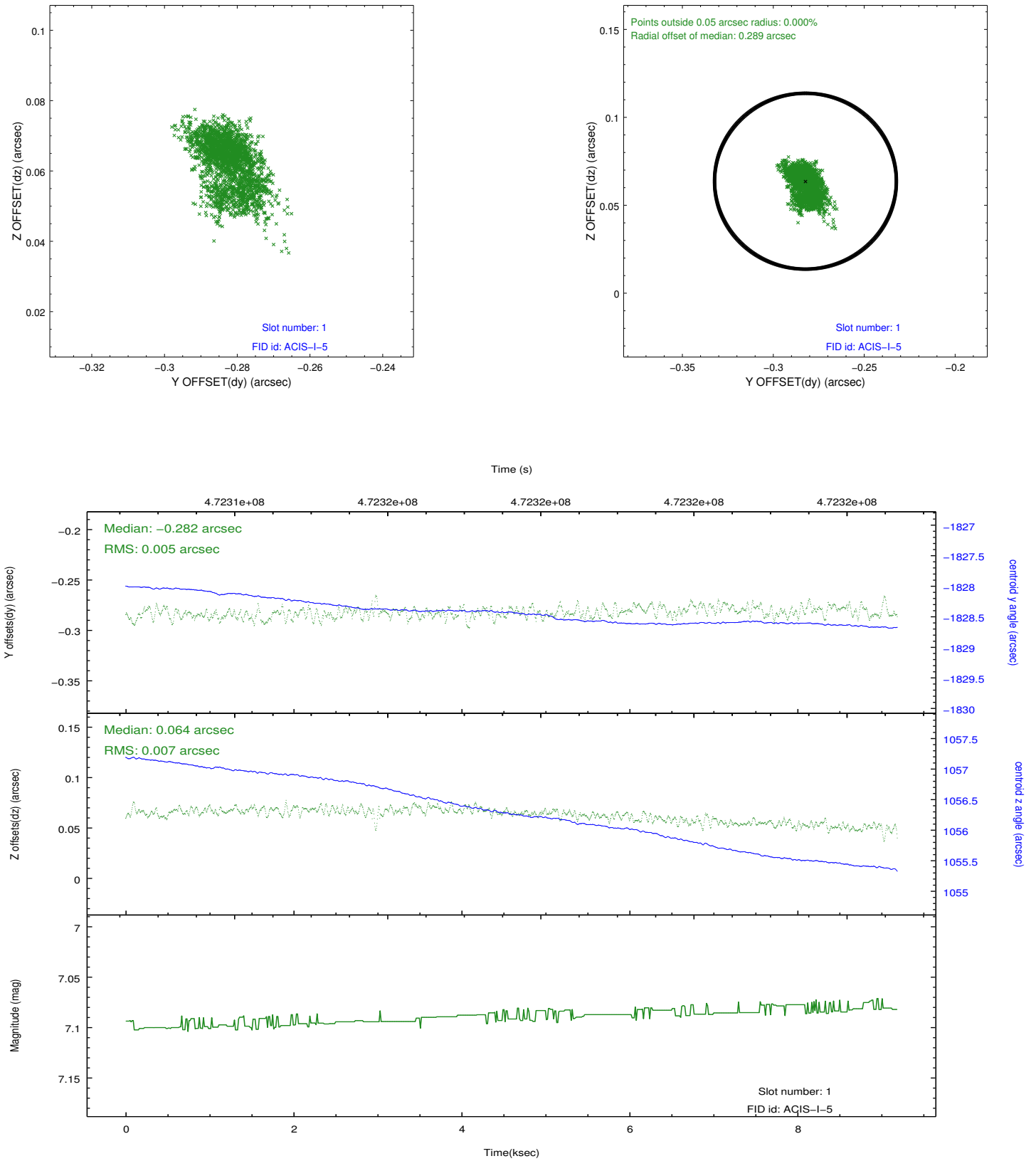


2.5 FID Slots

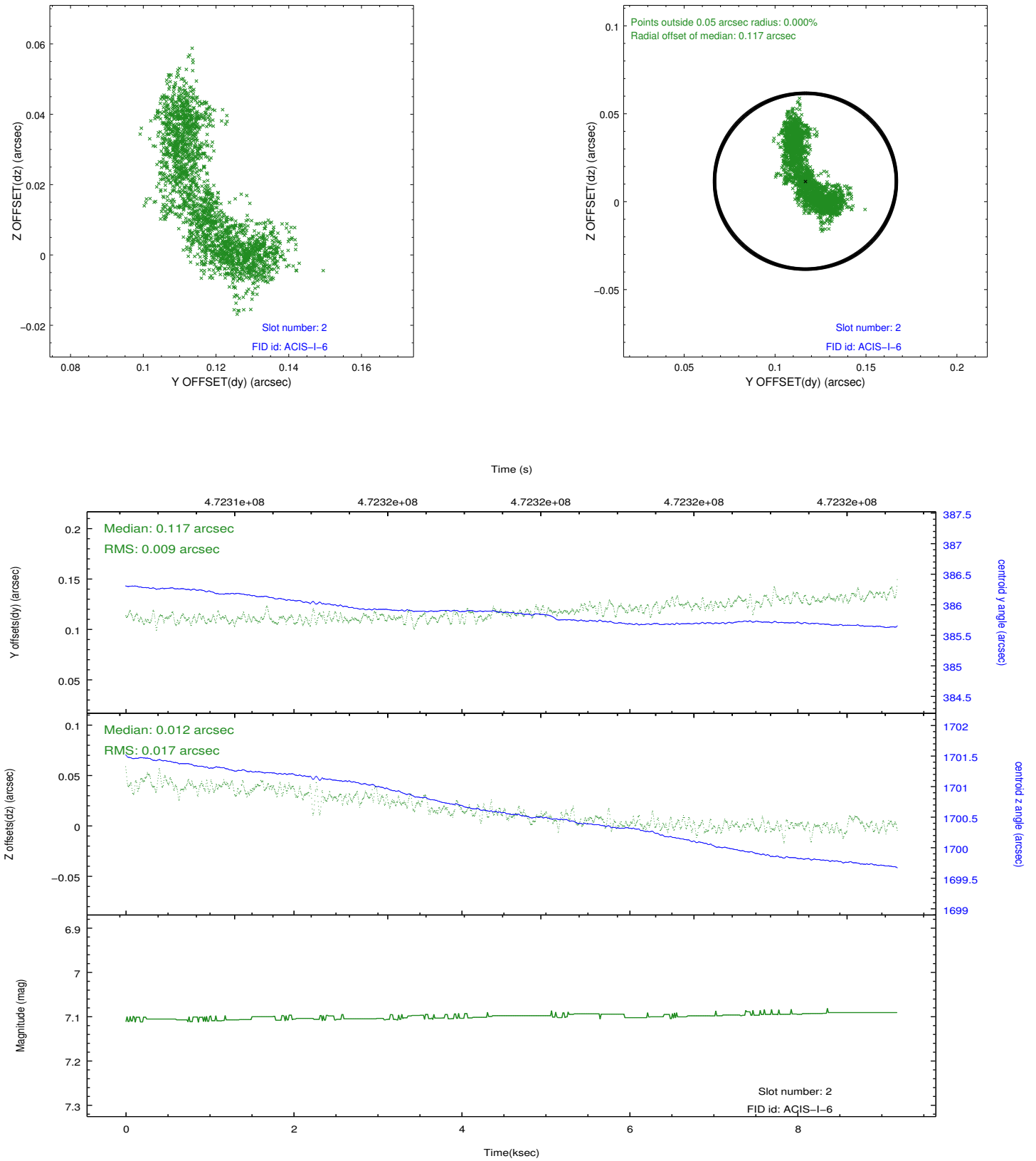
2.5.1 Slot 0



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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.082050506711

A.2 Comments