

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19381 - L2 Version 1
Chandra X-Ray Center

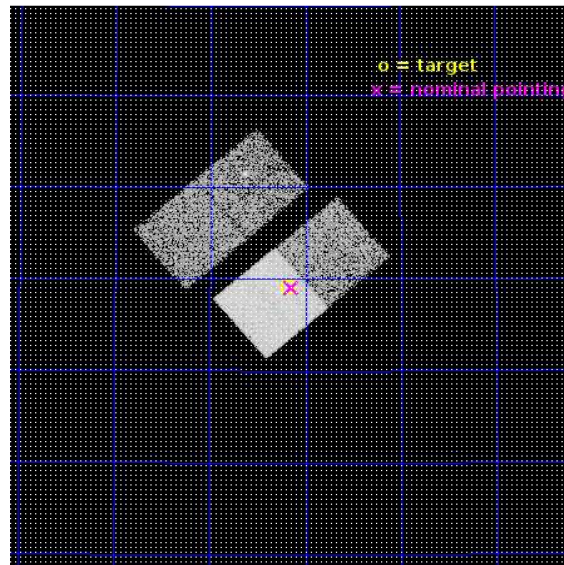
L2 Processing Date : Feb 9 2017

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

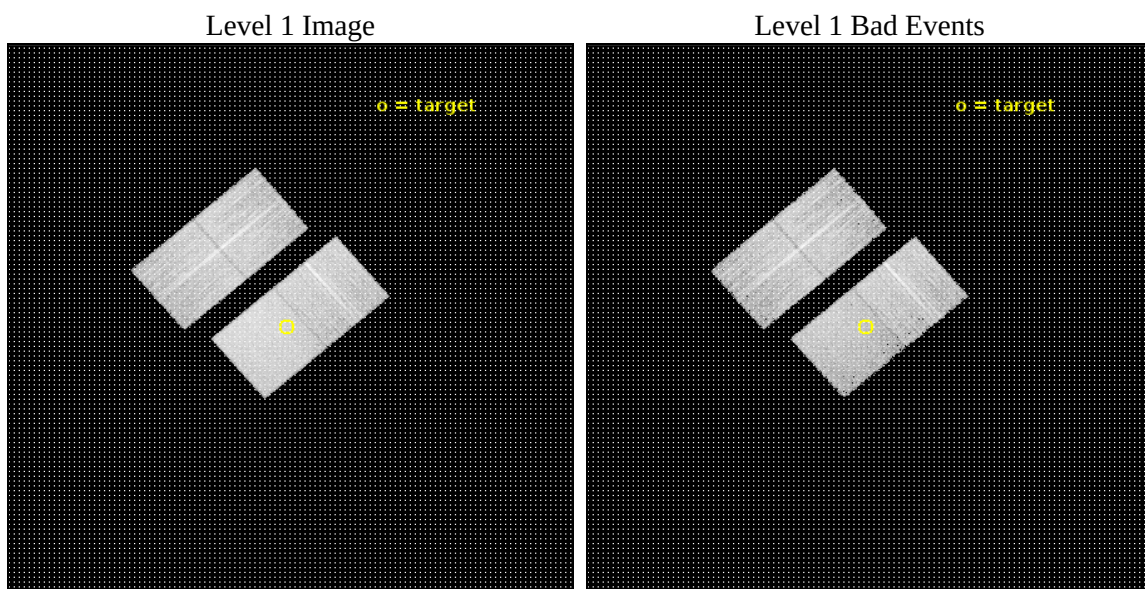
seq_num	601338	Sequence number
obs_id	19381	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3583	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.545833	Observer's specified target RA [deg]
dec_targ	48.318389	Observer's specified target Dec [deg]
ra_nom	168.53654578435	Nominal RA [deg]
dec_nom	48.317703668522	Nominal Dec [deg]
roll_nom	139.42957587306	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.800077558	Sum of GTIs [s]
livetime	9937.2437920015	Livetime [s]
ontime2	10068.800077558	Sum of GTIs [s]
ontime3	10068.800077558	Sum of GTIs [s]
ontime6	10068.800077558	Sum of GTIs [s]
ontime7	10068.800077558	Sum of GTIs [s]
l2events	57784	Number of level 2 events



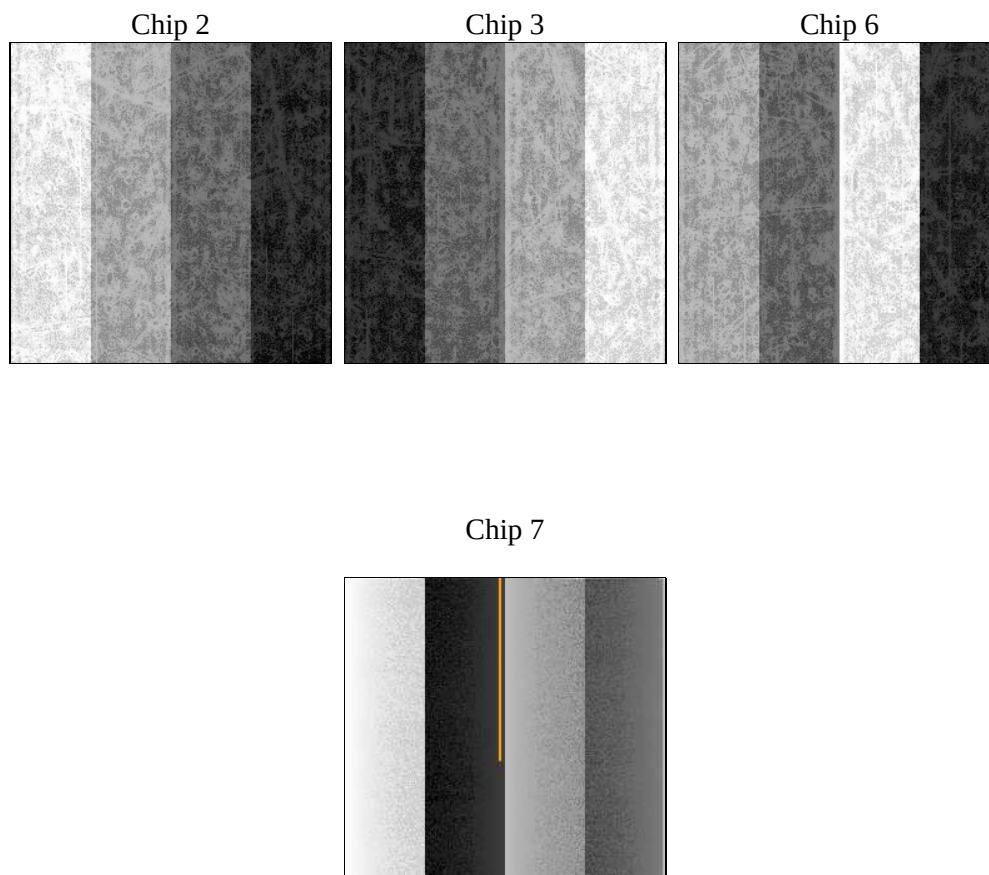
2 OBI

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	10068.800077558	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	10068.800077558	Sum of GTIs [s]
date	2017-02-10T00:53:40	Date and time of file creation	ontime3	10068.800077558	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10068.800077558	Sum of GTIs [s]
			ontime7	10068.800077558	Sum of GTIs [s]
			l1events	312656	Number of level 1 events

2.1.4 Events

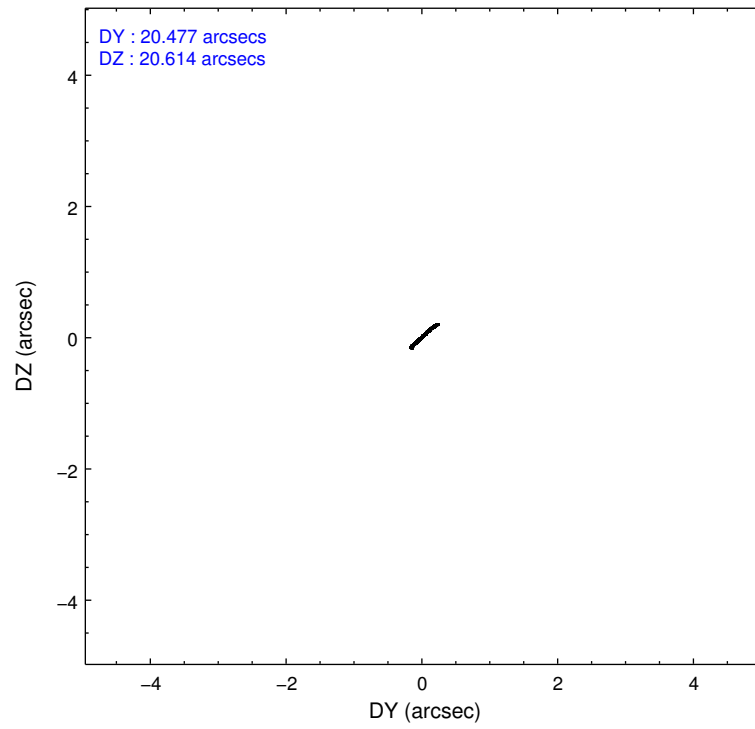
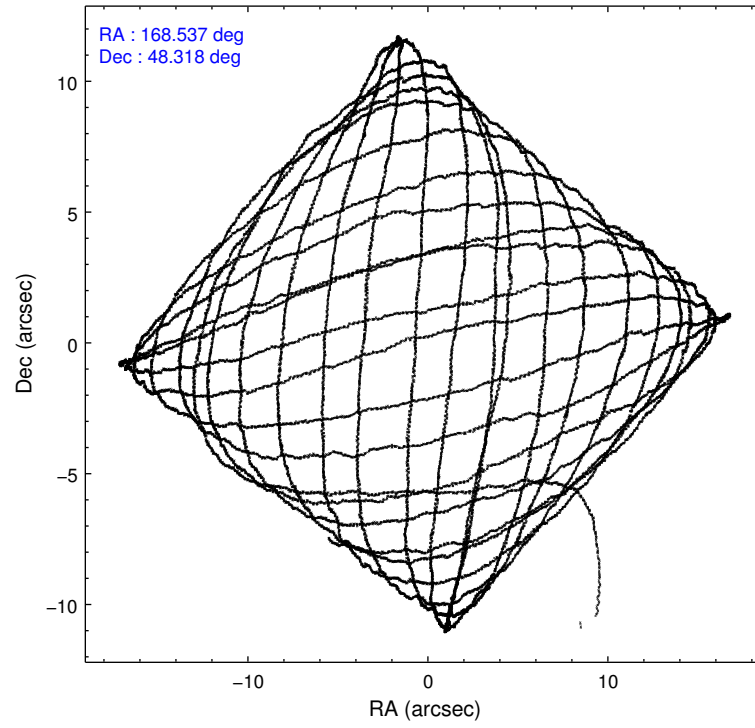
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73403	69699	77327	92227
rejected events	65963	62560	69245	53043
rejected %	89%	89%	89%	57%

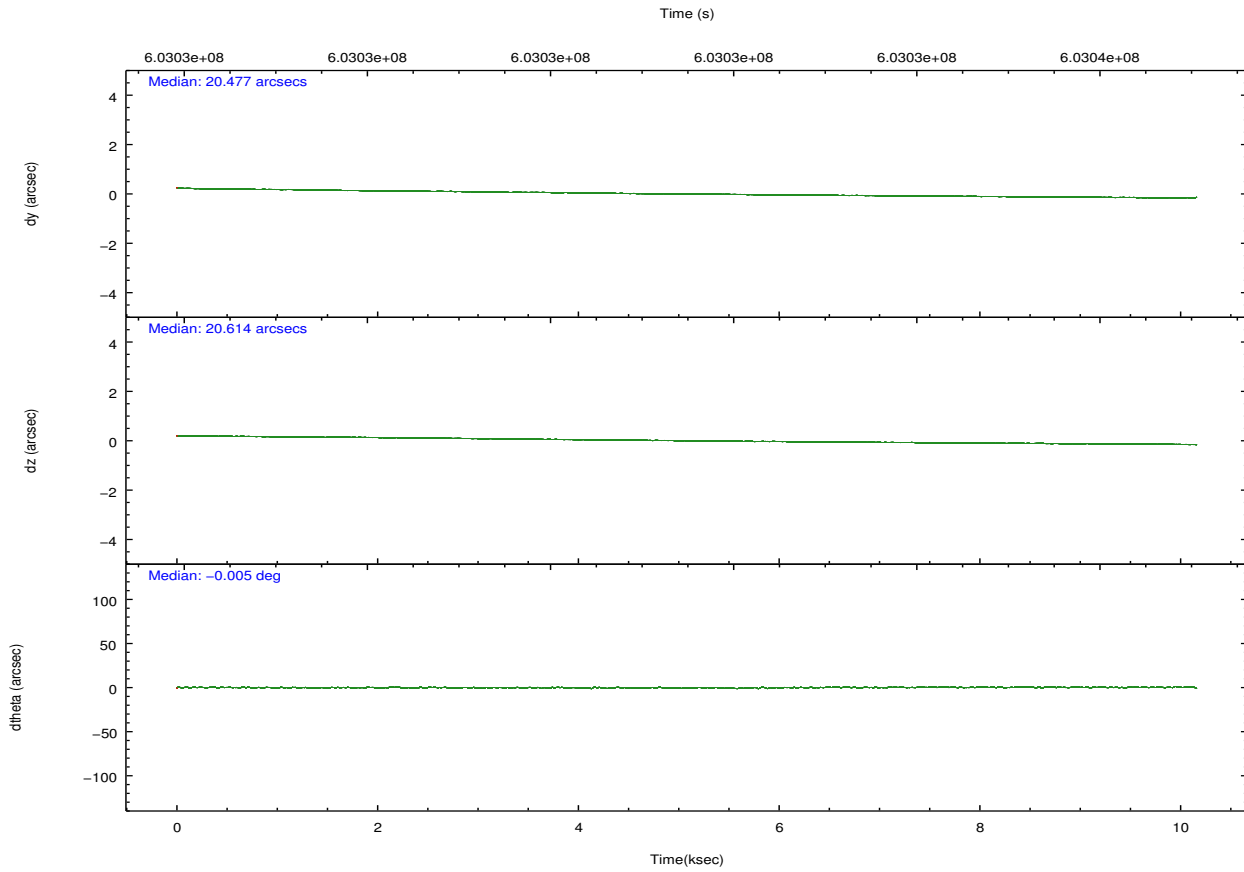
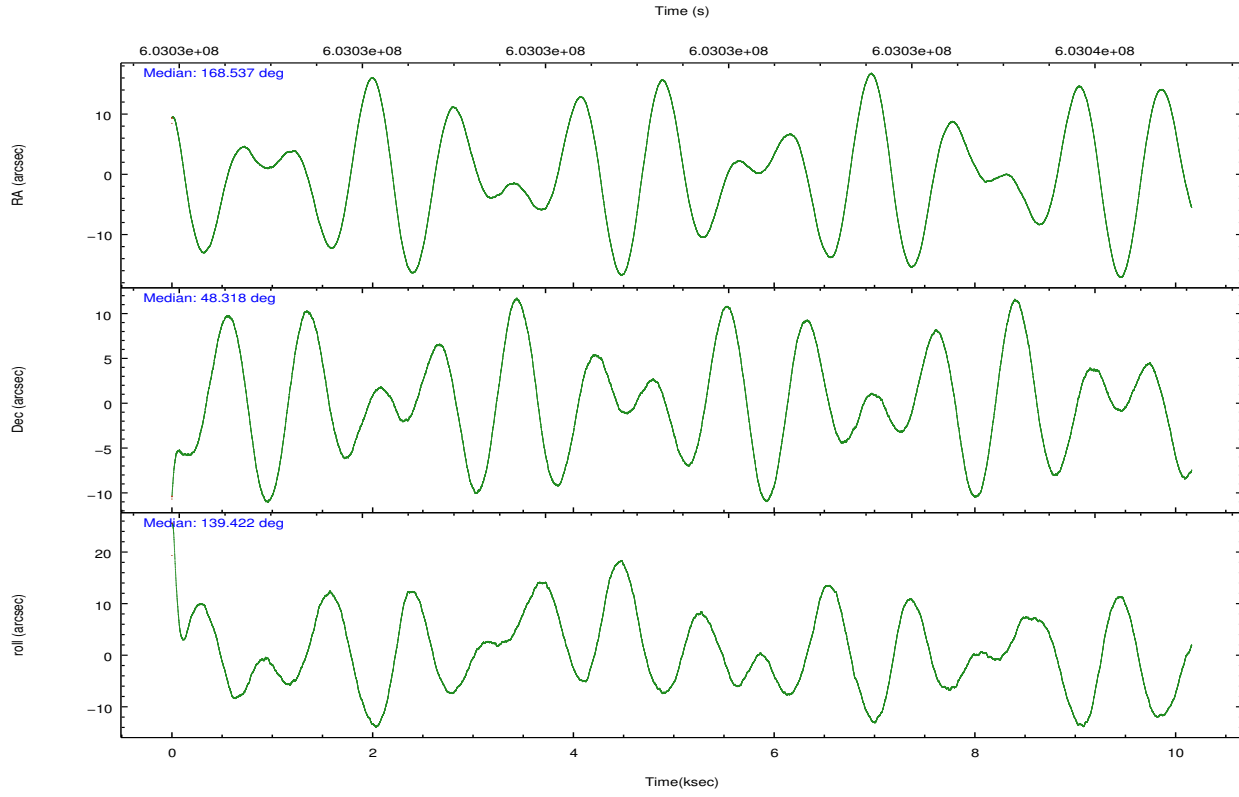
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2689	2472	2631	3154
	3%	3%	3%	3%
grade 1 events	33	37	38	123
	0%	0%	0%	0%
grade 2 events	1706	1534	1948	8303
	2%	2%	2%	9%
grade 3 events	771	740	786	2941
	1%	1%	1%	3%
grade 4 events	833	809	735	2797
	1%	1%	0%	3%
grade 5 events	2651	3212	3240	8772
	3%	4%	4%	9%
grade 6 events	1441	1587	1983	22006
	1%	2%	2%	23%
grade 7 events	63279	59308	65966	44131
	86%	85%	85%	47%

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	168.577220	168.5365457843467	Subarray requested	NONE	NONE
[deg] Pointing Dec	48.313060	48.31770366852172	Alternating exposures requested	N	N
[deg] Pointing Roll	139.242538	139.4295758730552	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	603026576.184000	603025484.66079			
Observation start date	2017-02-09T11:21:47	2017-02-09T11:04:44			
[s] Observation end time (MET)	603036576.184000	603037299.32397			
Observation end date	2017-02-09T14:08:27	2017-02-09T14:21:39			
Read mode	TIMED	TIMED			

2.3 Aspect



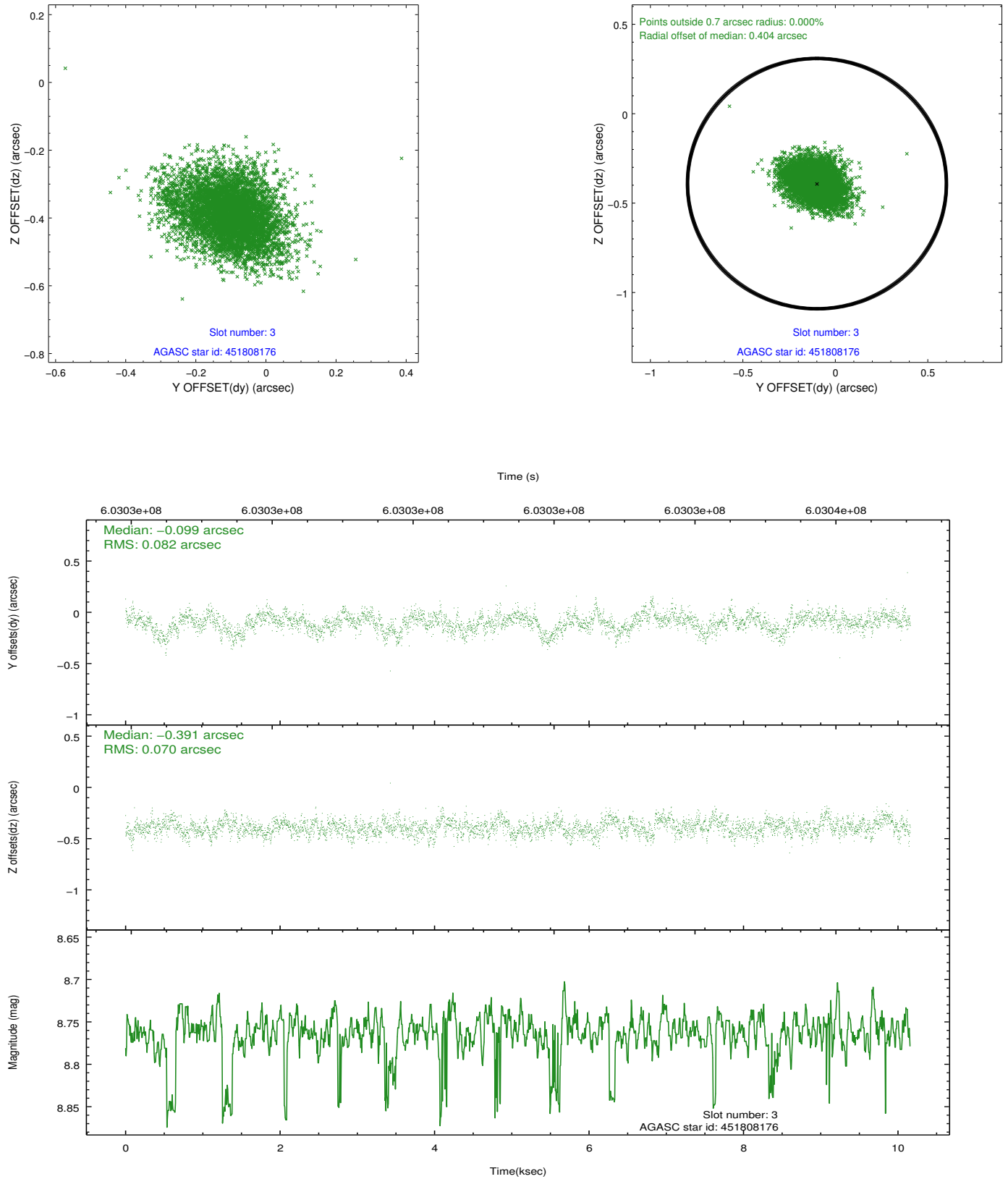


Slot Statistics

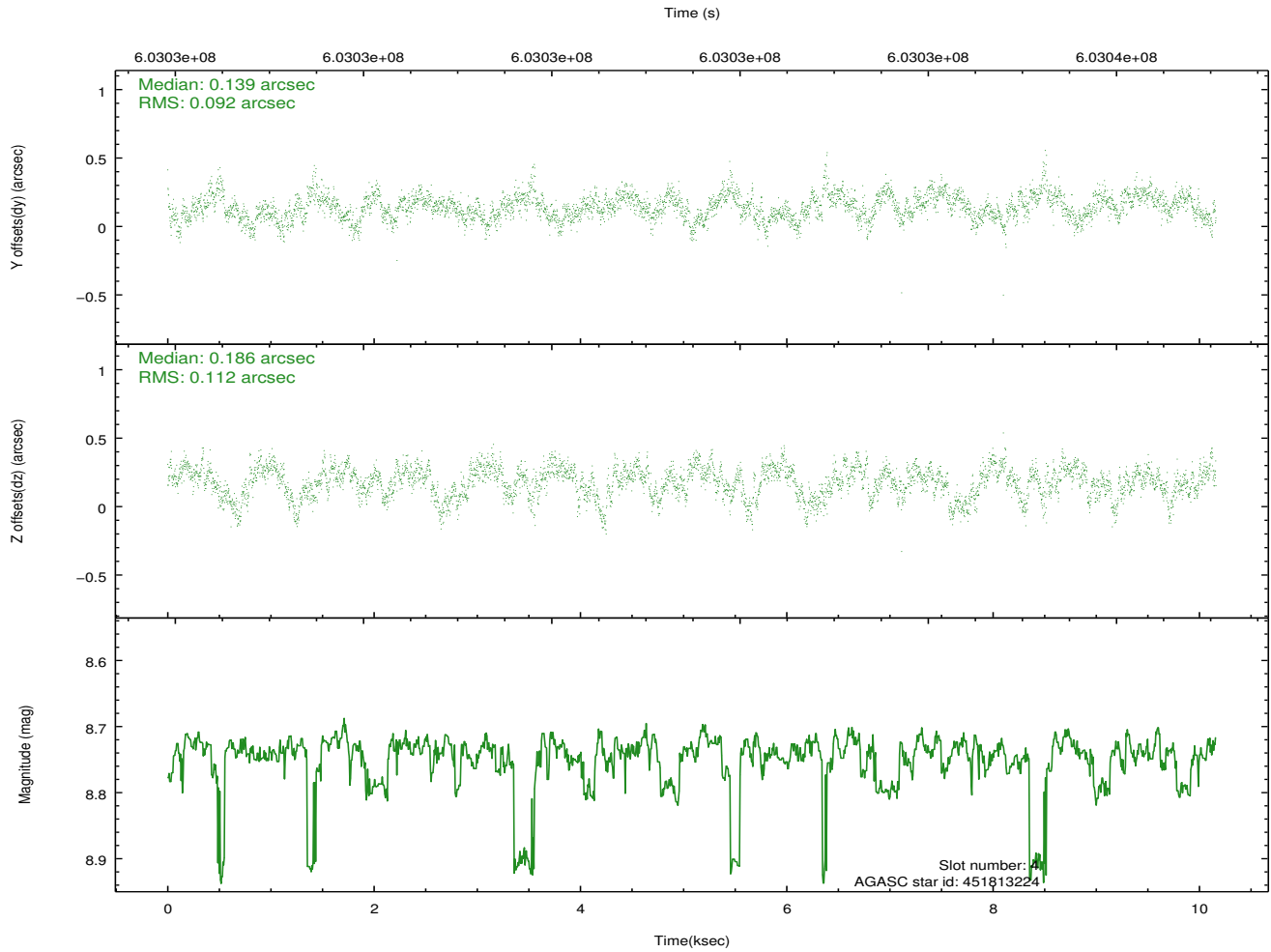
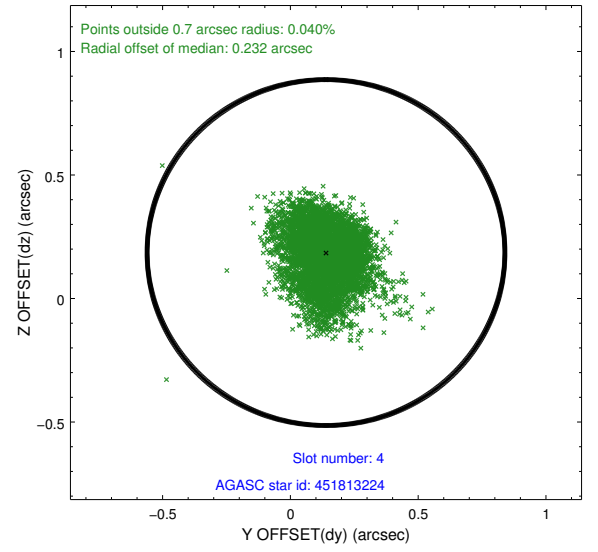
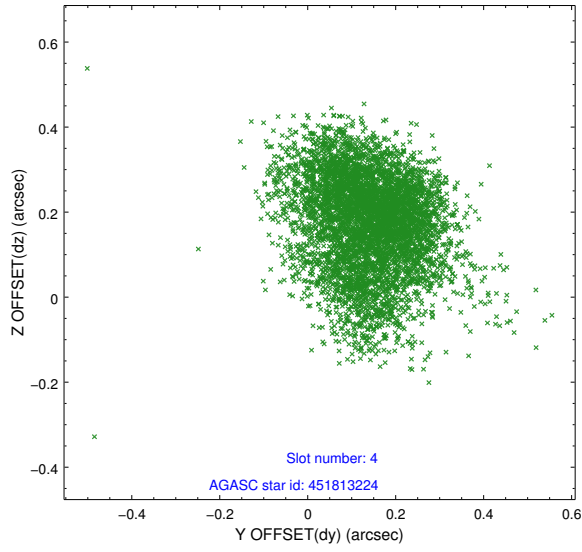
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	2477	-0.256	-0.115	0.009	0.015	0.000000	0.000000	-773.84	-1742.23
1	FID		ACIS-S-4	7.18	2479	0.514	0.154	0.006	0.010	0.000000	0.000000	2139.94	166.01
2	FID		ACIS-S-5	7.16	2479	-0.289	-0.031	0.009	0.014	0.000000	0.000000	-1826.07	160.05
3	GUIDE	used	451808176	8.76	4952	-0.099	-0.391	0.112	0.192	167.985041	48.634774	1827.05	38.24
4	GUIDE	used	451813224	8.74	4956	0.139	0.186	0.152	0.250	168.563621	48.758769	1073.33	-1193.38
5	GUIDE	used	452332560	9.07	4951	-0.433	-0.579	0.134	0.210	168.907013	48.101061	-1097.63	58.29
6	GUIDE	used	452335632	7.67	4957	0.159	0.439	0.092	0.154	169.329594	47.936340	-2254.01	-163.49
7	GUIDE	used	452608392	9.03	4950	0.230	0.363	0.145	0.252	169.041032	48.848824	428.21	-2180.51

2.4 Star Slots

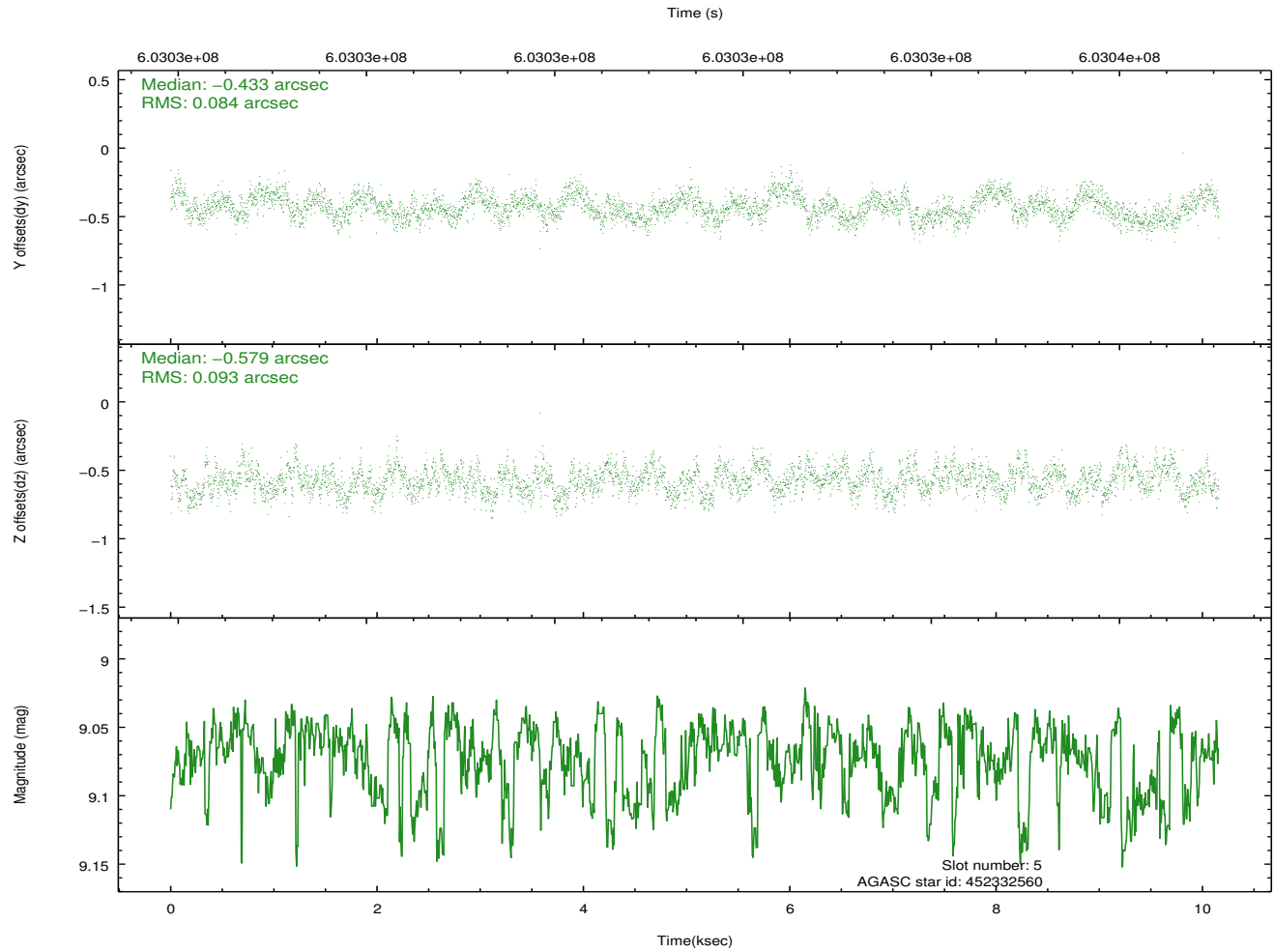
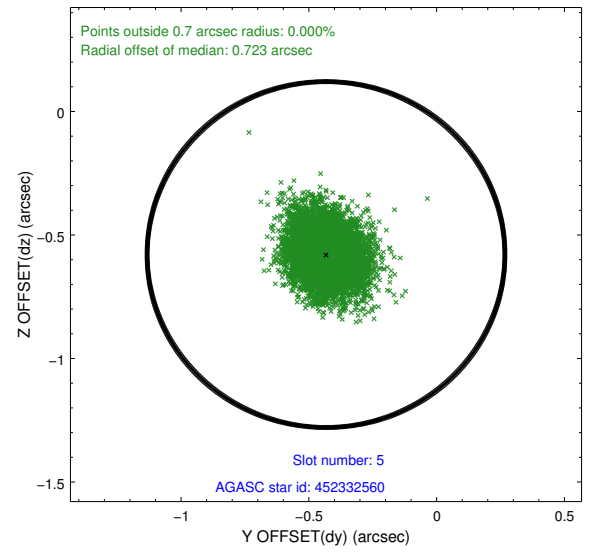
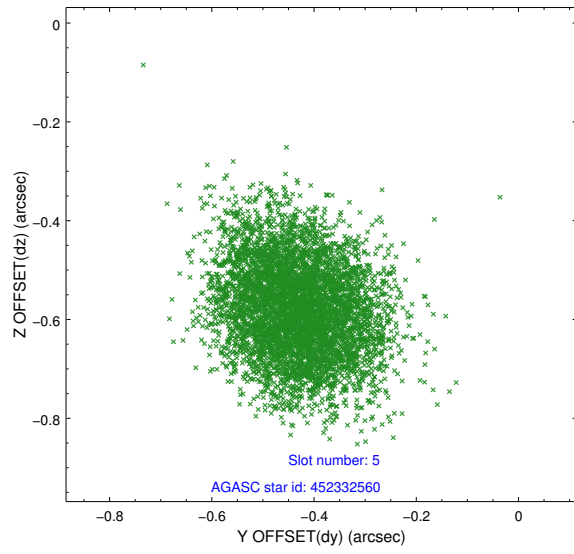
2.4.1 Slot 3



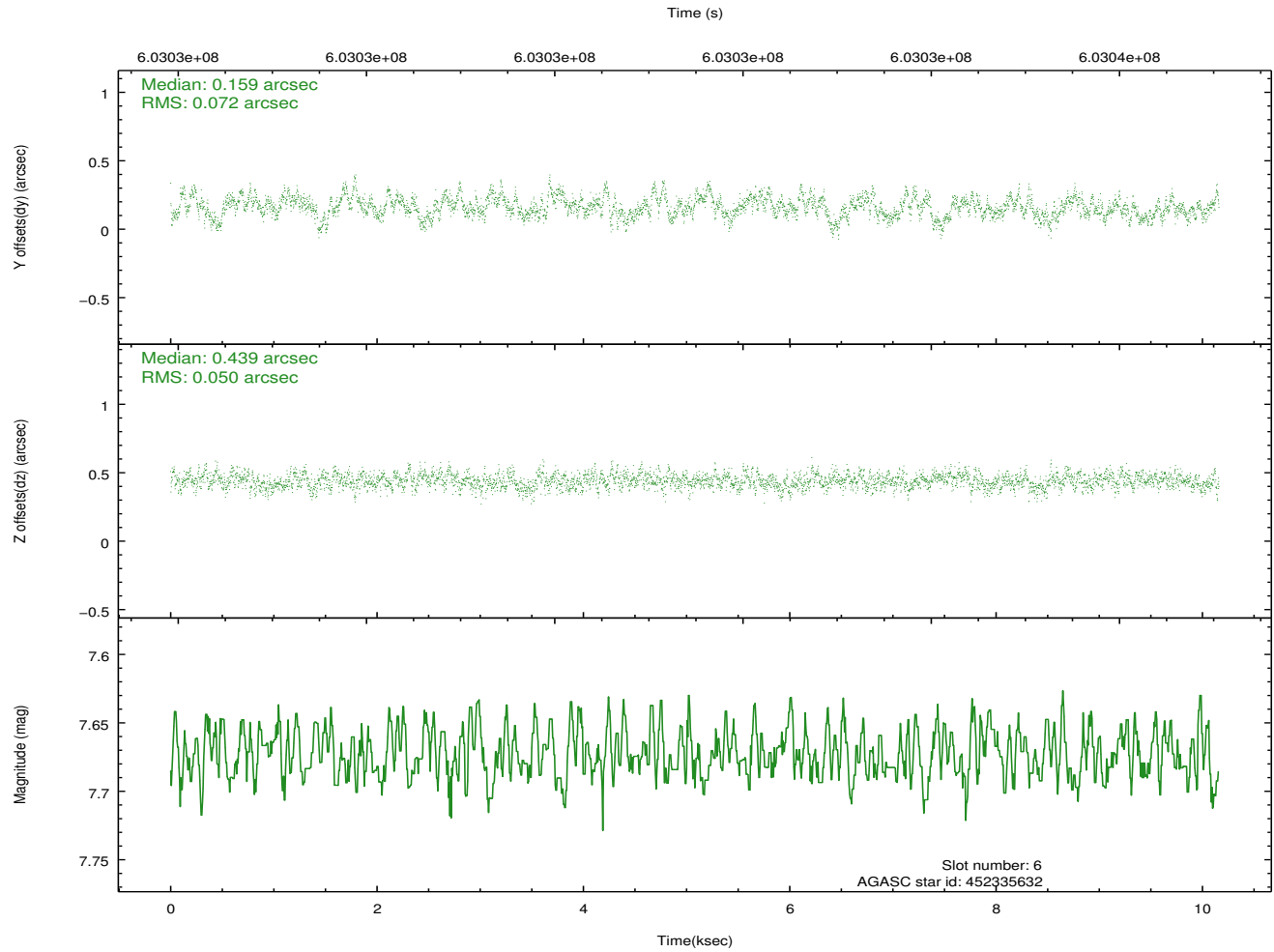
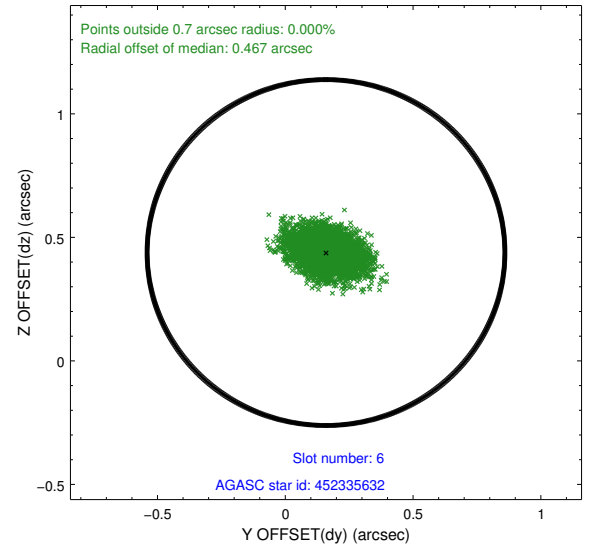
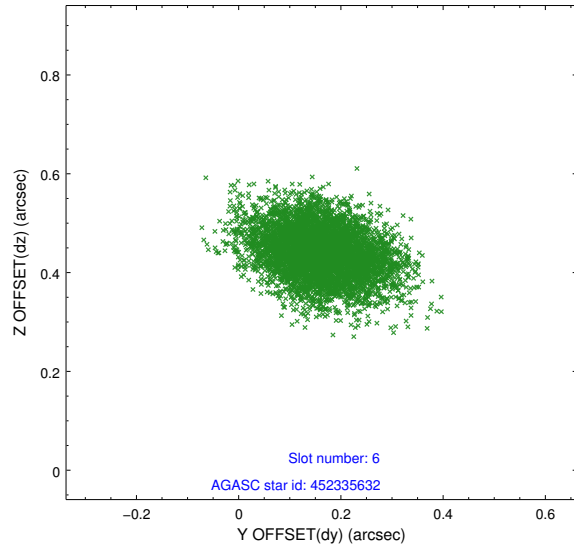
2.4.2 Slot 4



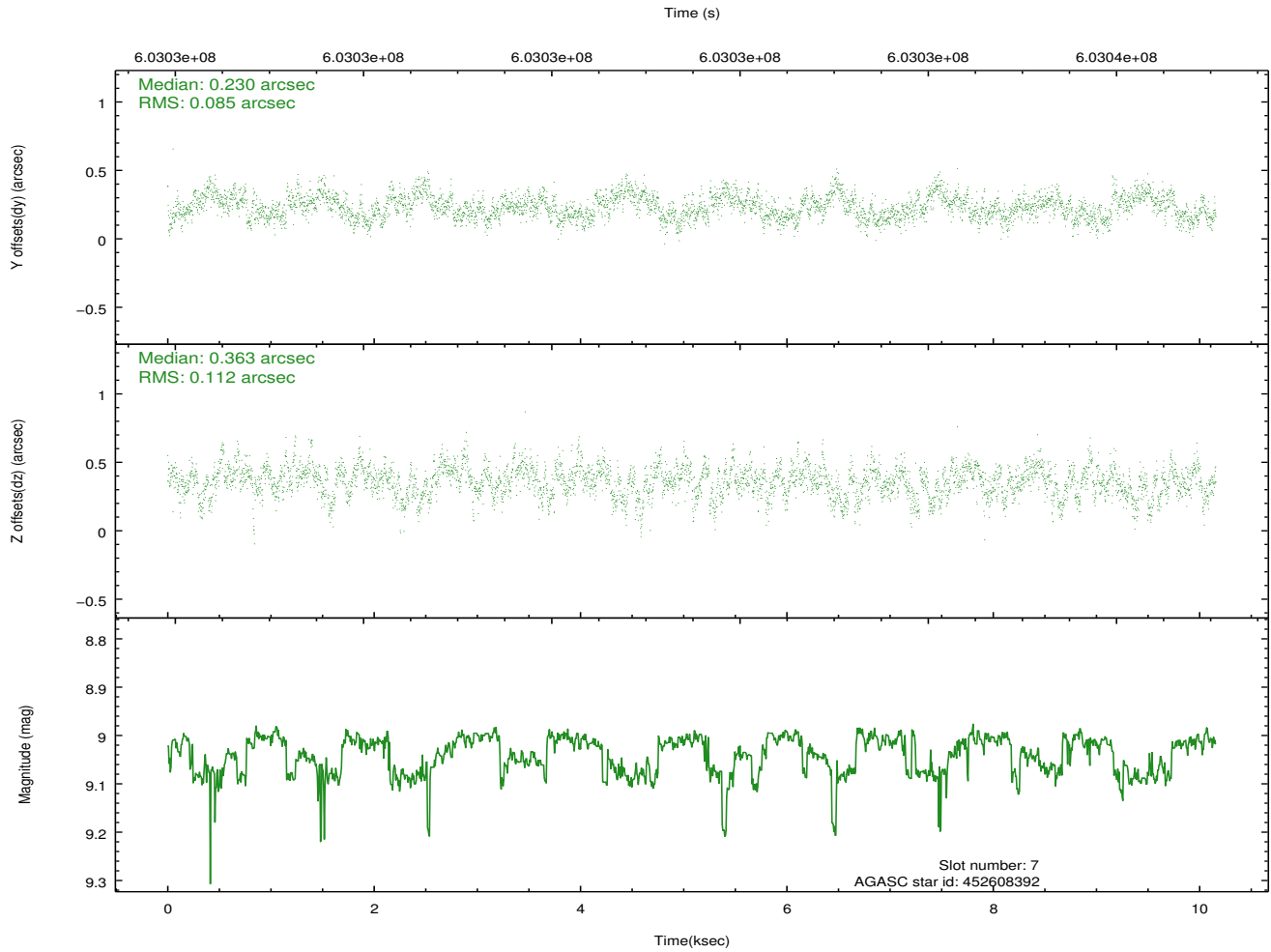
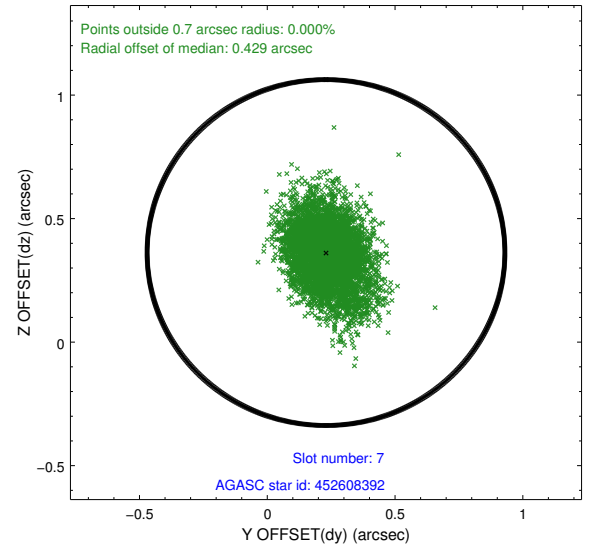
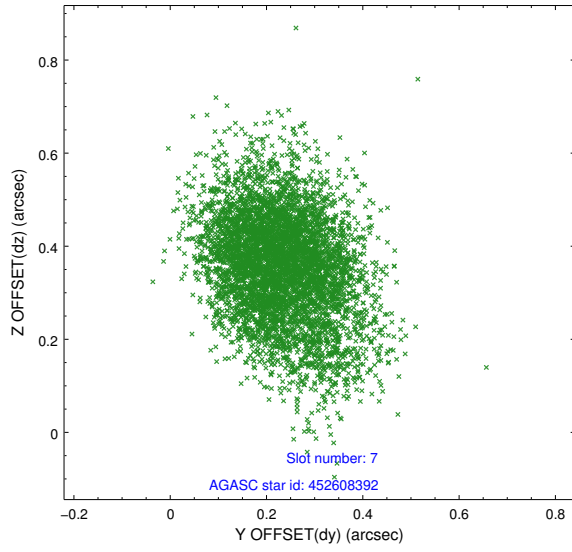
2.4.3 Slot 5



2.4.4 Slot 6

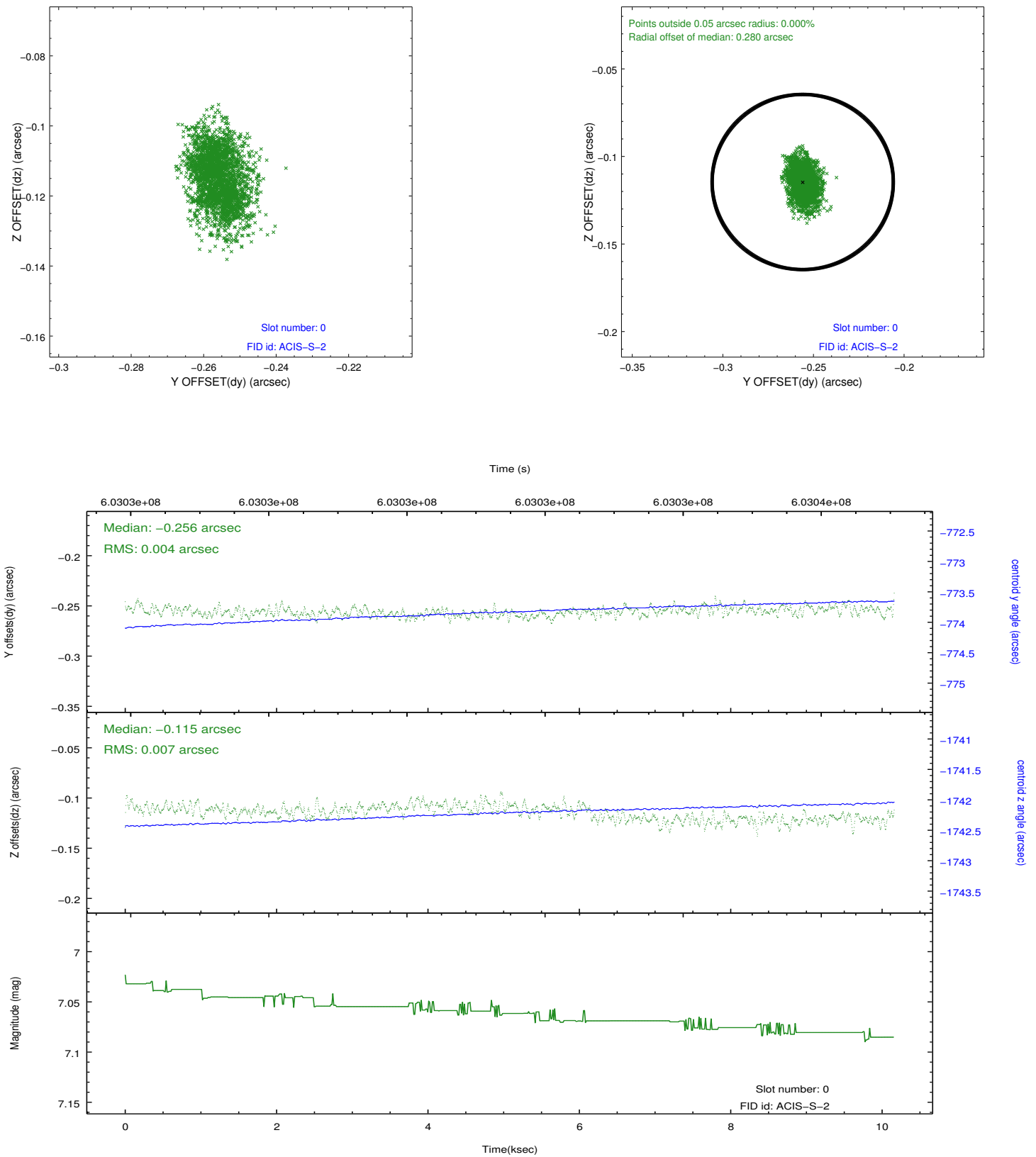


2.4.5 Slot 7

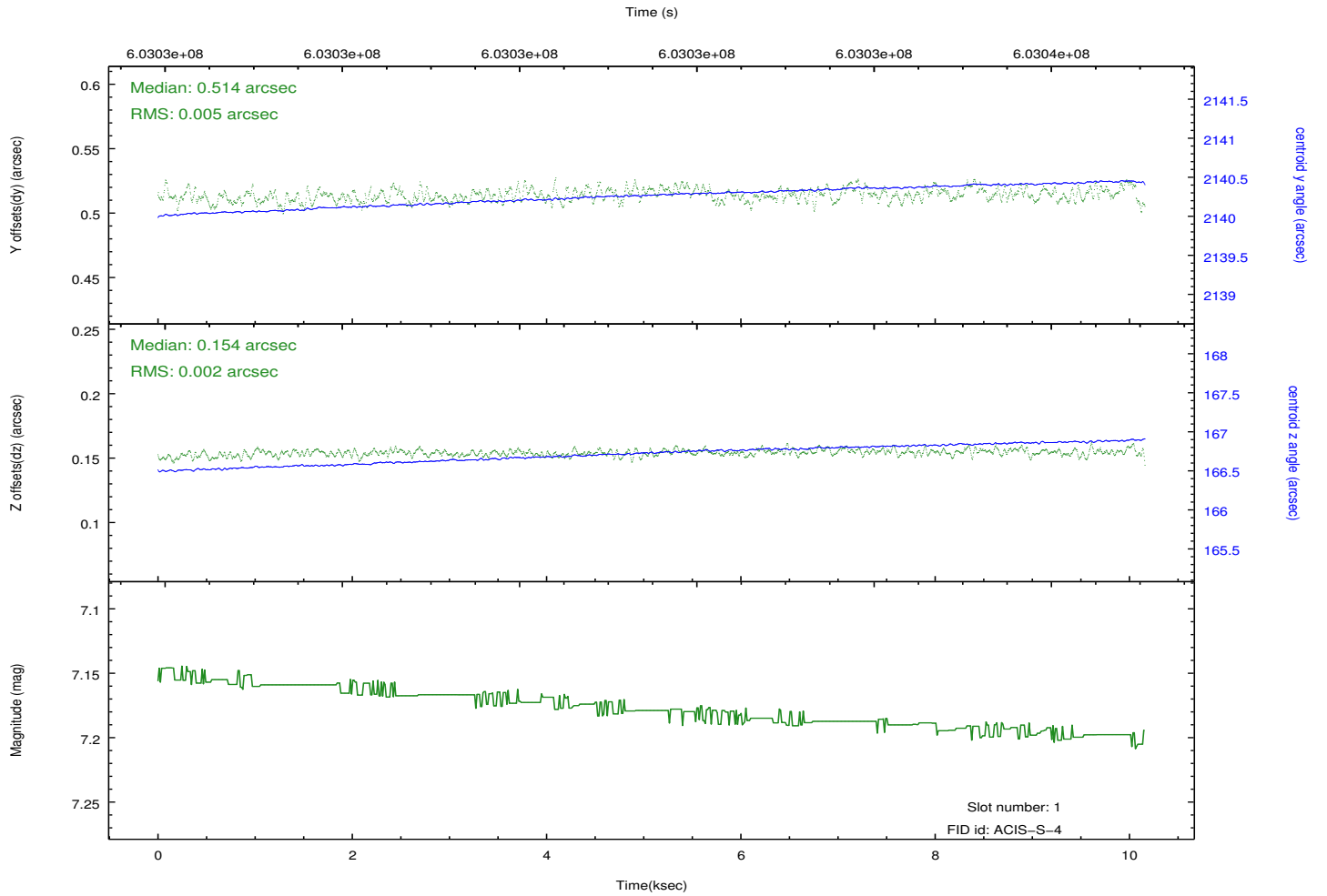
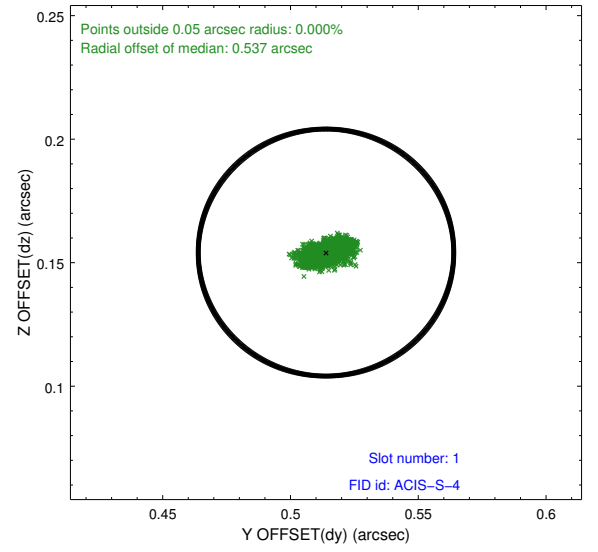
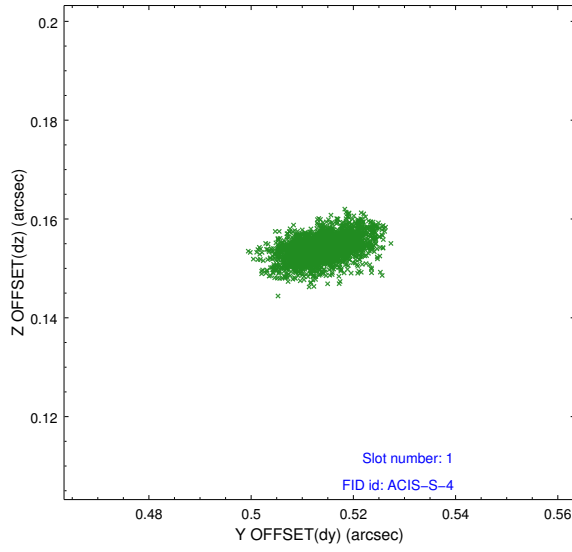


2.5 FID Slots

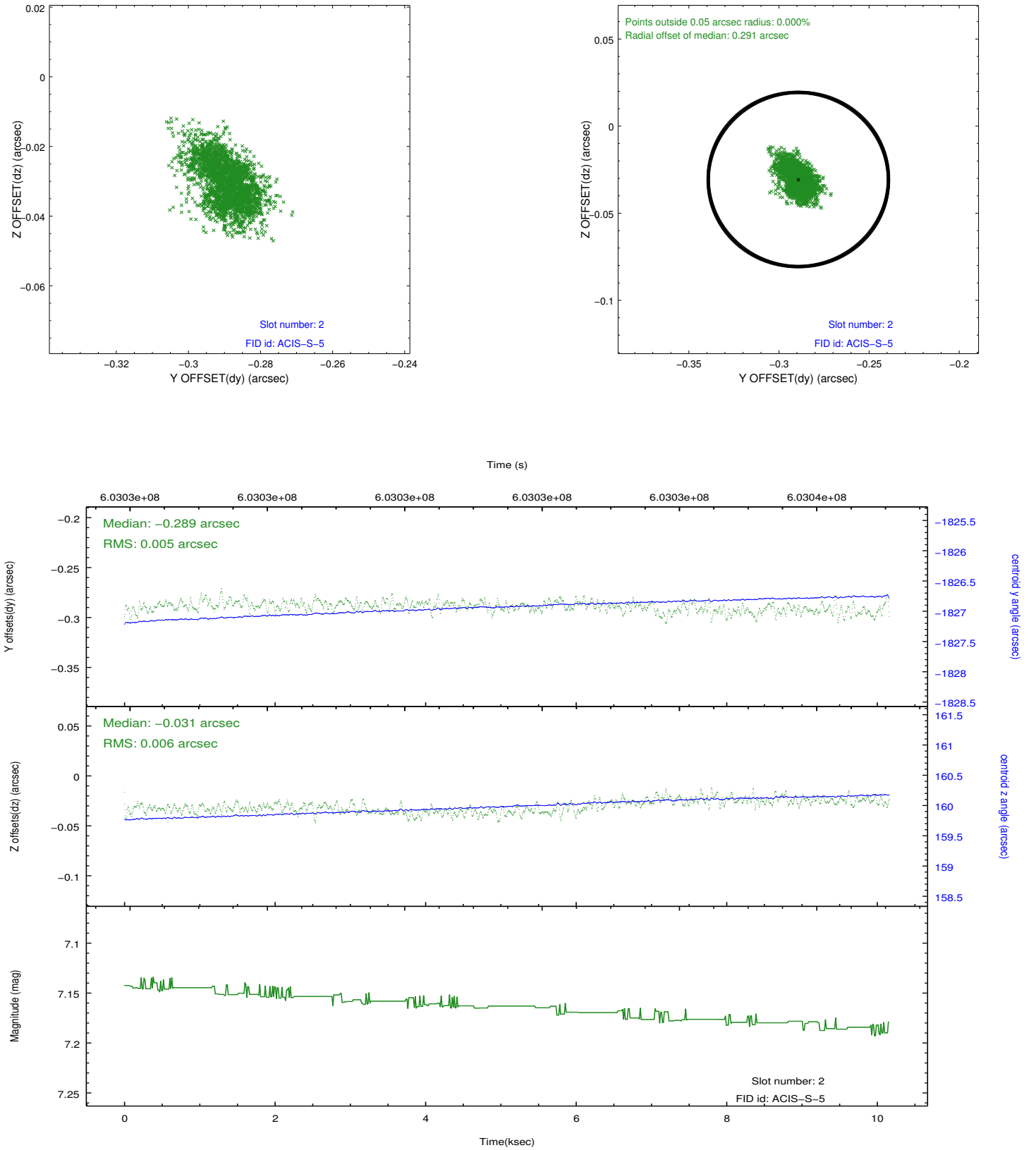
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068800077558

A.2 Comments