

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19414 - L2 Version 1
Chandra X-Ray Center

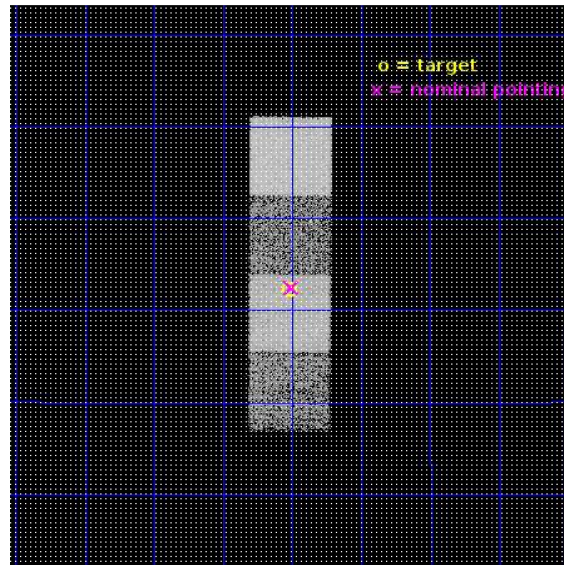
L2 Processing Date : Feb 16 2017

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

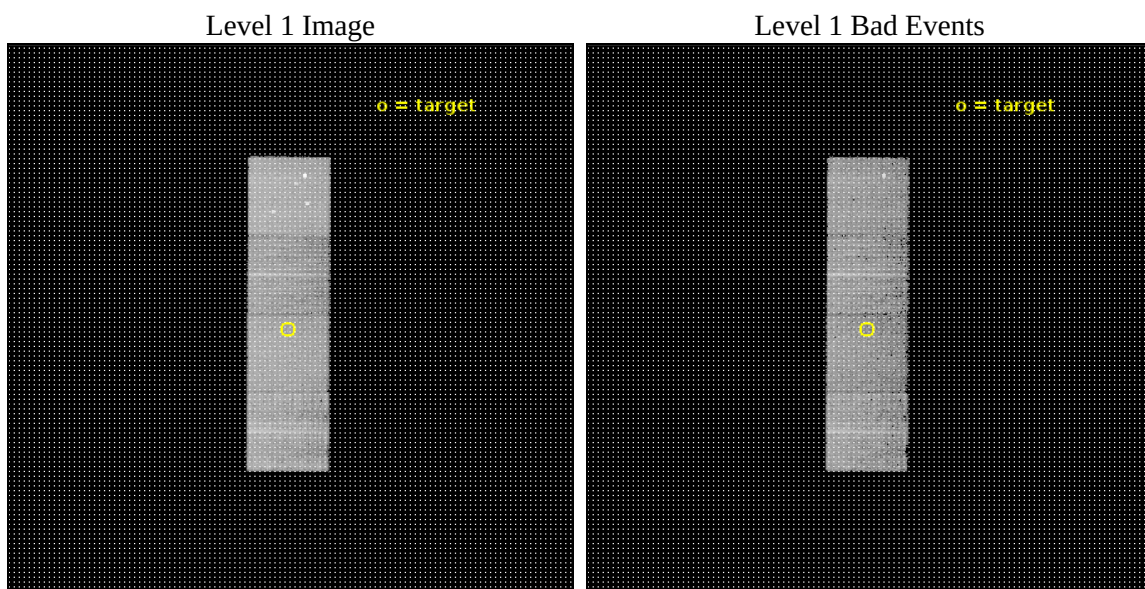
seq_num	601371	Sequence number
obs_id	19414	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4312	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.630833	Observer's specified target RA [deg]
dec_targ	15.537917	Observer's specified target Dec [deg]
ra_nom	185.62651194077	Nominal RA [deg]
dec_nom	15.541480601919	Nominal Dec [deg]
roll_nom	90.329873780933	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8060.000062108	Sum of GTIs [s]
livetime	7954.6902276109	Livetime [s]
ontime5	8060.000062108	Sum of GTIs [s]
ontime6	8060.000062108	Sum of GTIs [s]
ontime7	8060.000062108	Sum of GTIs [s]
ontime8	8060.000062108	Sum of GTIs [s]
l2events	85385	Number of level 2 events



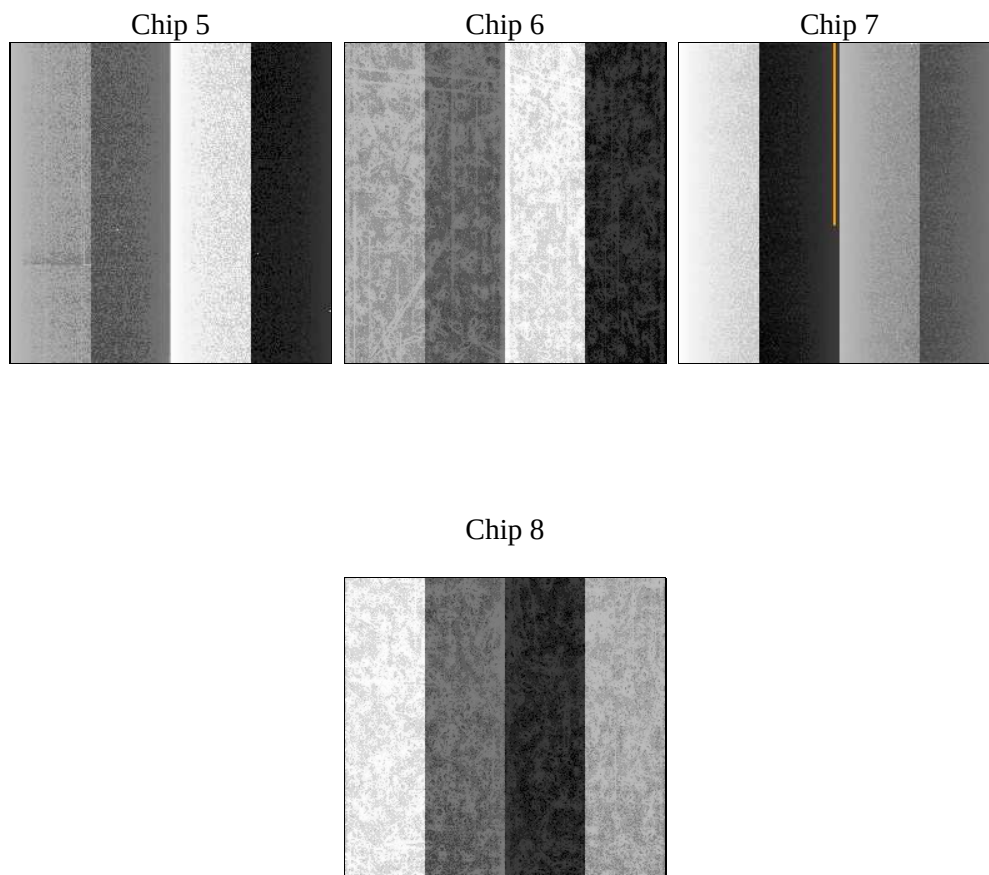
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	8060.000062108	Sum of GTIs [s]
caldbver	4.7.3	 	ontime5	8060.000062108	Sum of GTIs [s]
date	2017-02-16T06:38:13	Date and time of file creation	ontime6	8060.000062108	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	8060.000062108	Sum of GTIs [s]
			ontime8	8060.000062108	Sum of GTIs [s]
			l1events	308547	Number of level 1 events

2.1.4 Events

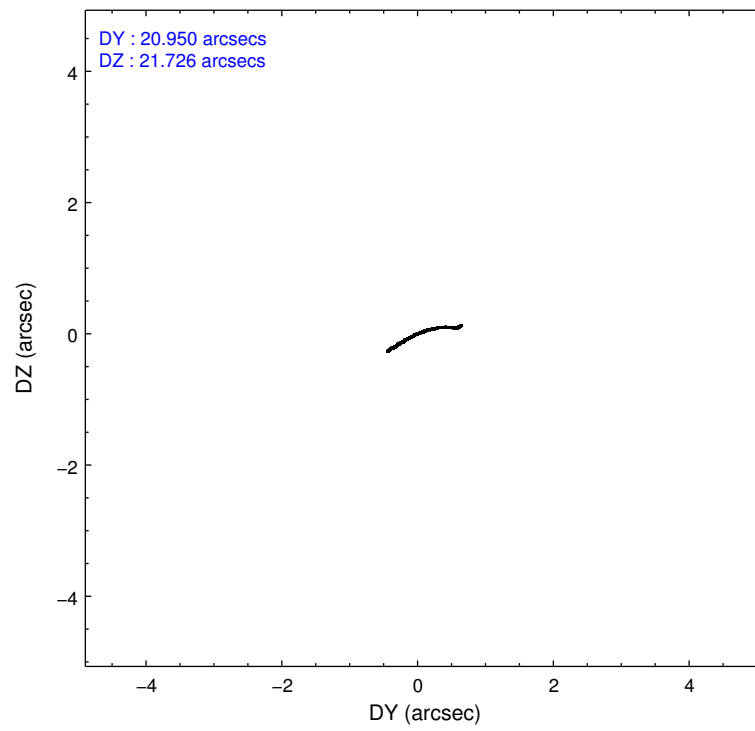
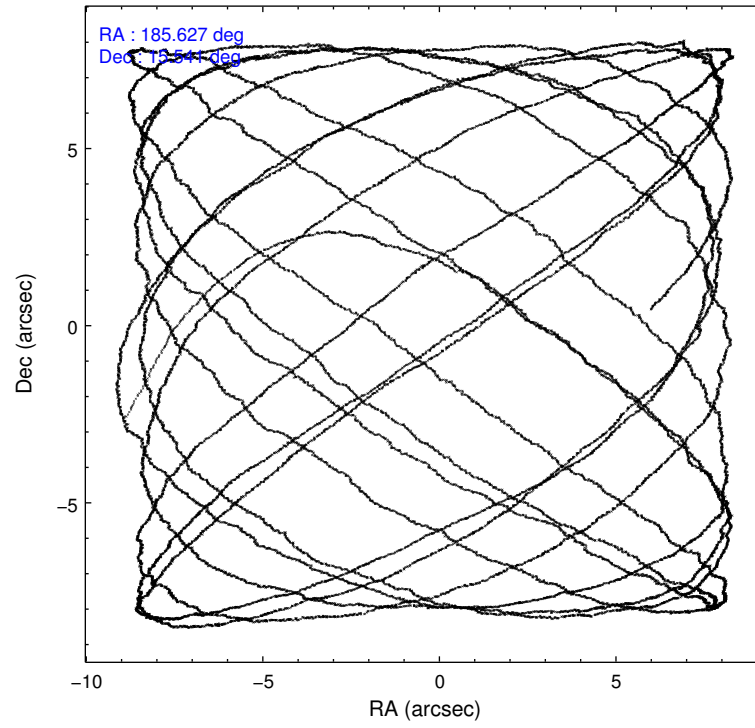
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	96200	59659	74595	78093
rejected events	48723	52978	42277	57839
rejected %	50%	88%	56%	74%

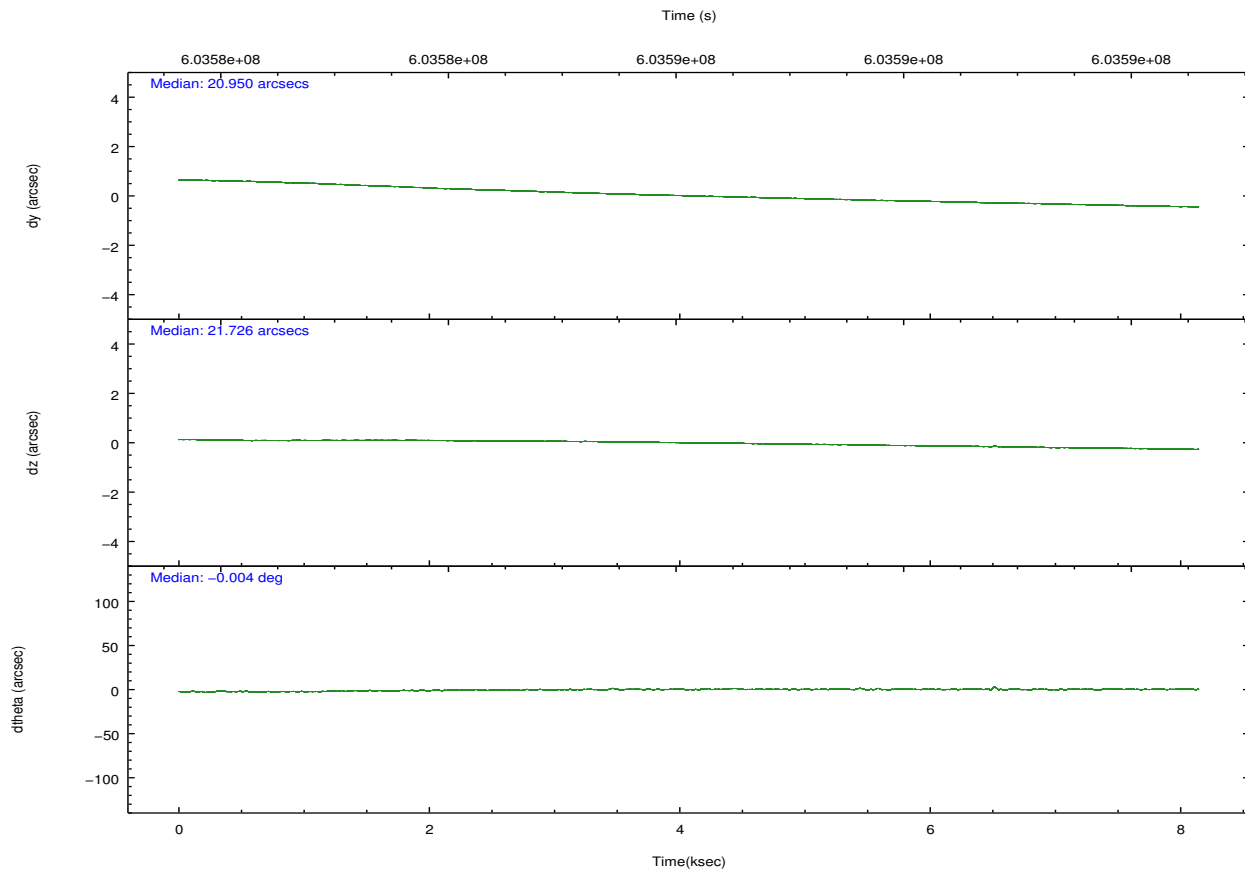
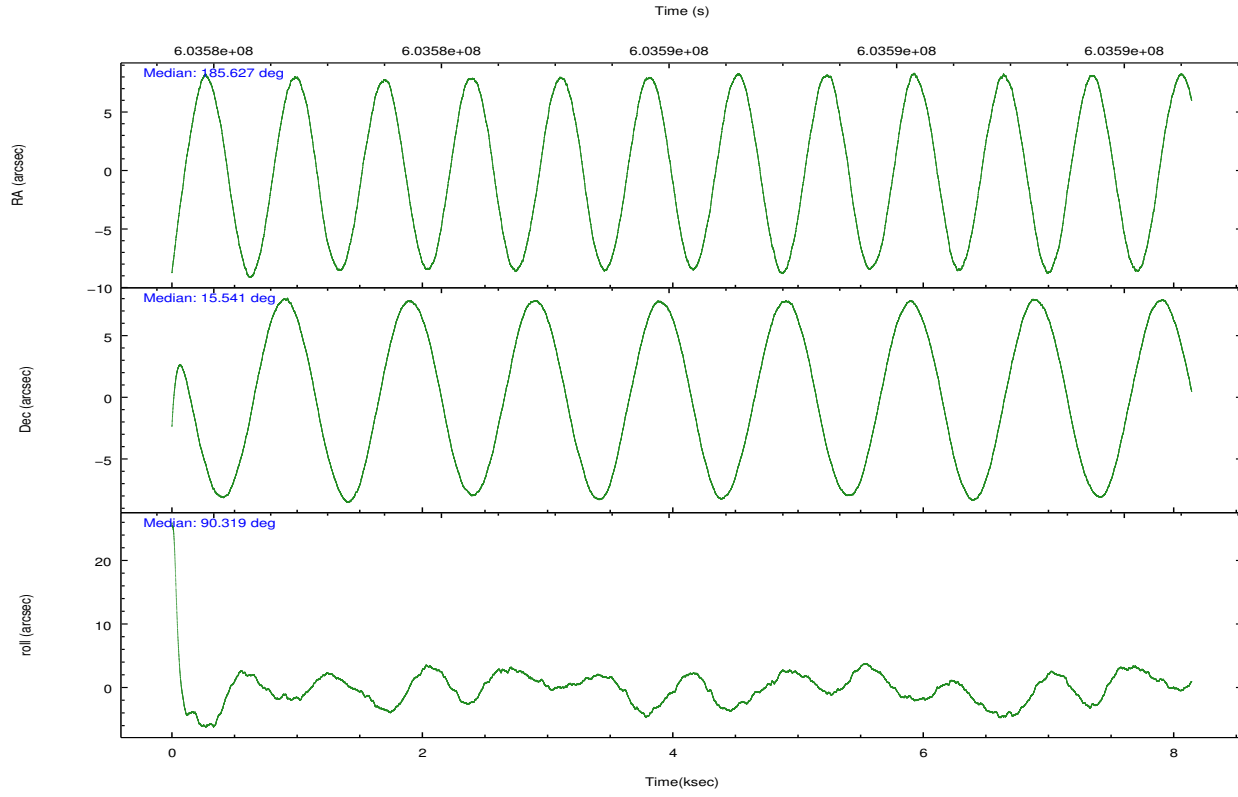
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5638	2237	2692	5886
	5%	3%	3%	7%
grade 1 events	218	32	112	57
	0%	0%	0%	0%
grade 2 events	14926	1598	6837	4863
	15%	2%	9%	6%
grade 3 events	1283	635	2568	2142
	1%	1%	3%	2%
grade 4 events	1229	663	2506	1941
	1%	1%	3%	2%
grade 5 events	6327	2630	7137	3963
	6%	4%	9%	5%
grade 6 events	24434	1554	17740	5434
	25%	2%	23%	6%
grade 7 events	42145	50310	35003	53807
	43%	84%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	185.641205	185.6265119407746	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.517972	15.54148060191887	Alternating exposures requested	N	N
[deg] Pointing Roll	90.169268	90.32987378093333	[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)	603582205.184000	603580723.09293			
Observation start date	2017-02-15T21:42:16	2017-02-15T21:18:43			
[s] Observation end time (MET)	603590205.184000	603590949.51852			
Observation end date	2017-02-15T23:55:36	2017-02-16T00:09:09			
Read mode	TIMED	TIMED			

2.3 Aspect



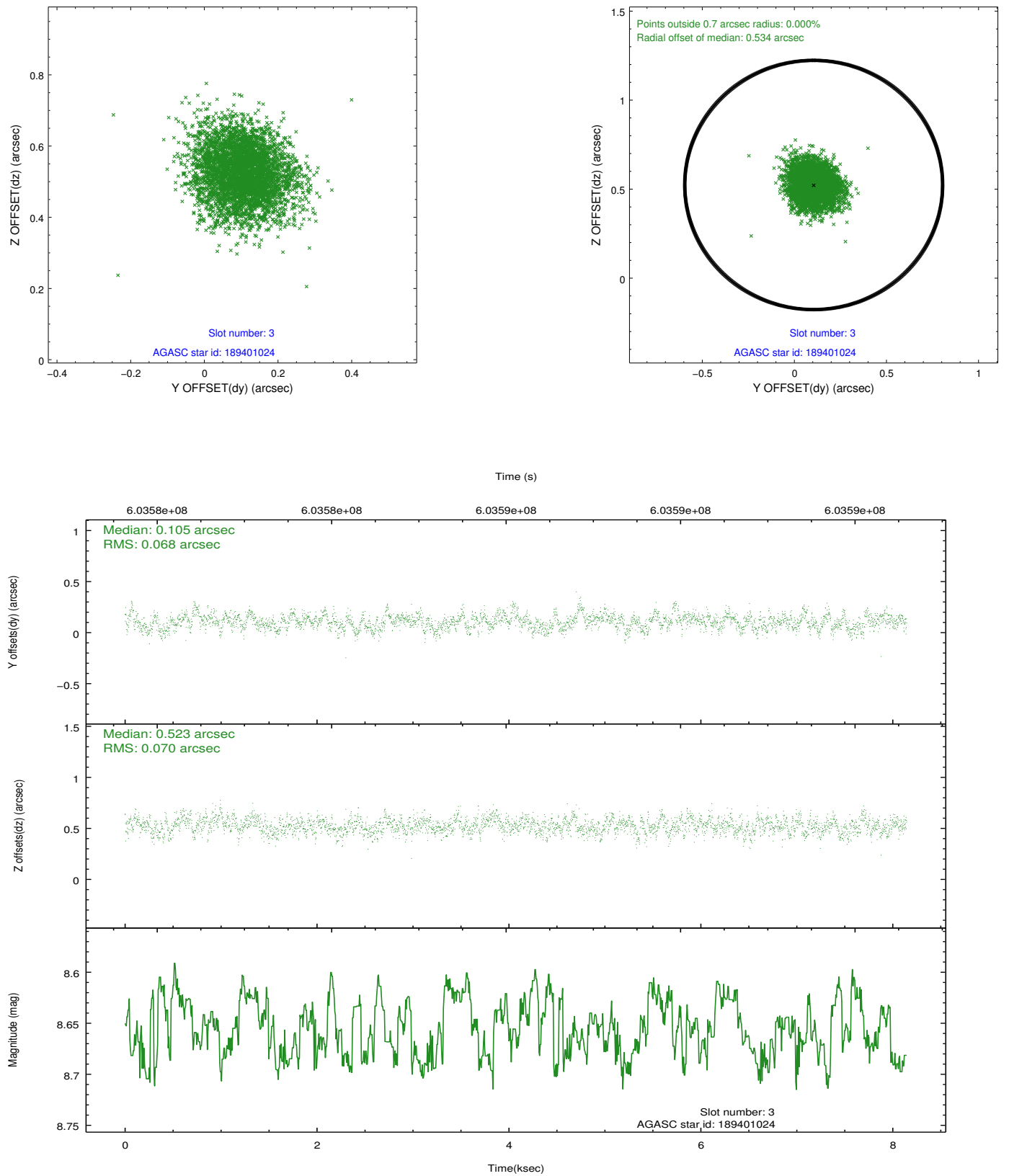


Slot Statistics

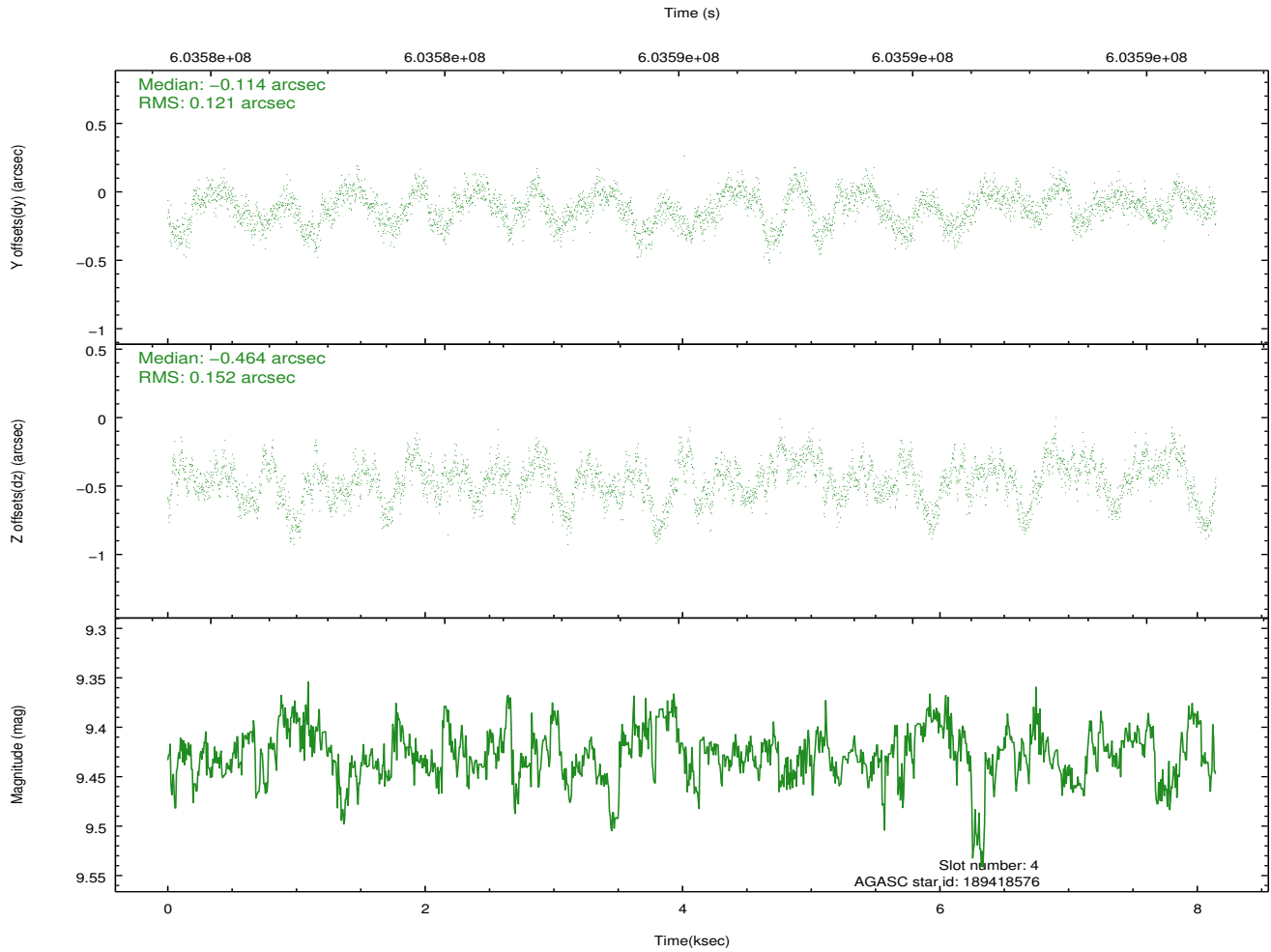
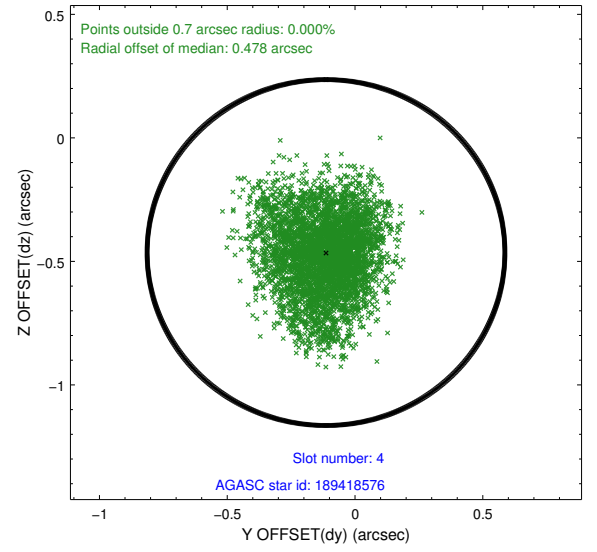
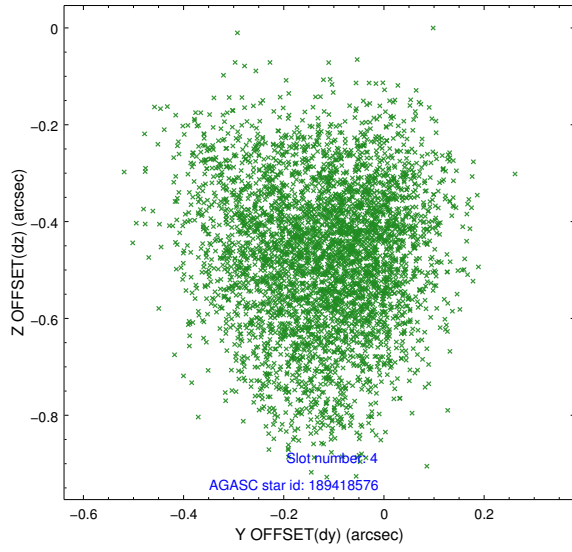
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	1987	-0.224	-0.125	0.012	0.018	0.000000	0.000000	-774.36	-1743.38
1	FID		ACIS-S-4	7.16	1987	0.464	0.141	0.009	0.014	0.000000	0.000000	2139.29	164.64
2	FID		ACIS-S-5	7.15	1987	-0.272	-0.007	0.010	0.017	0.000000	0.000000	-1826.37	158.96
3	GUIDE	used	189401024	8.66	3973	0.105	0.523	0.105	0.168	185.977630	15.617765	357.45	-1166.55
4	GUIDE	used	189418576	9.43	3967	-0.114	-0.464	0.208	0.336	185.327663	15.828320	1121.89	1084.04
5	GUIDE	used	189419528	6.34	3974	-0.038	0.449	0.134	0.200	185.202988	15.540976	89.21	1520.72
6	GUIDE	used	189400120	8.16	3972	0.009	-0.650	0.107	0.178	185.025387	15.714800	716.94	2133.39
7	GUIDE	used	189411792	7.92	3971	0.040	0.163	0.163	0.255	186.226855	16.194788	2434.45	-2030.53

2.4 Star Slots

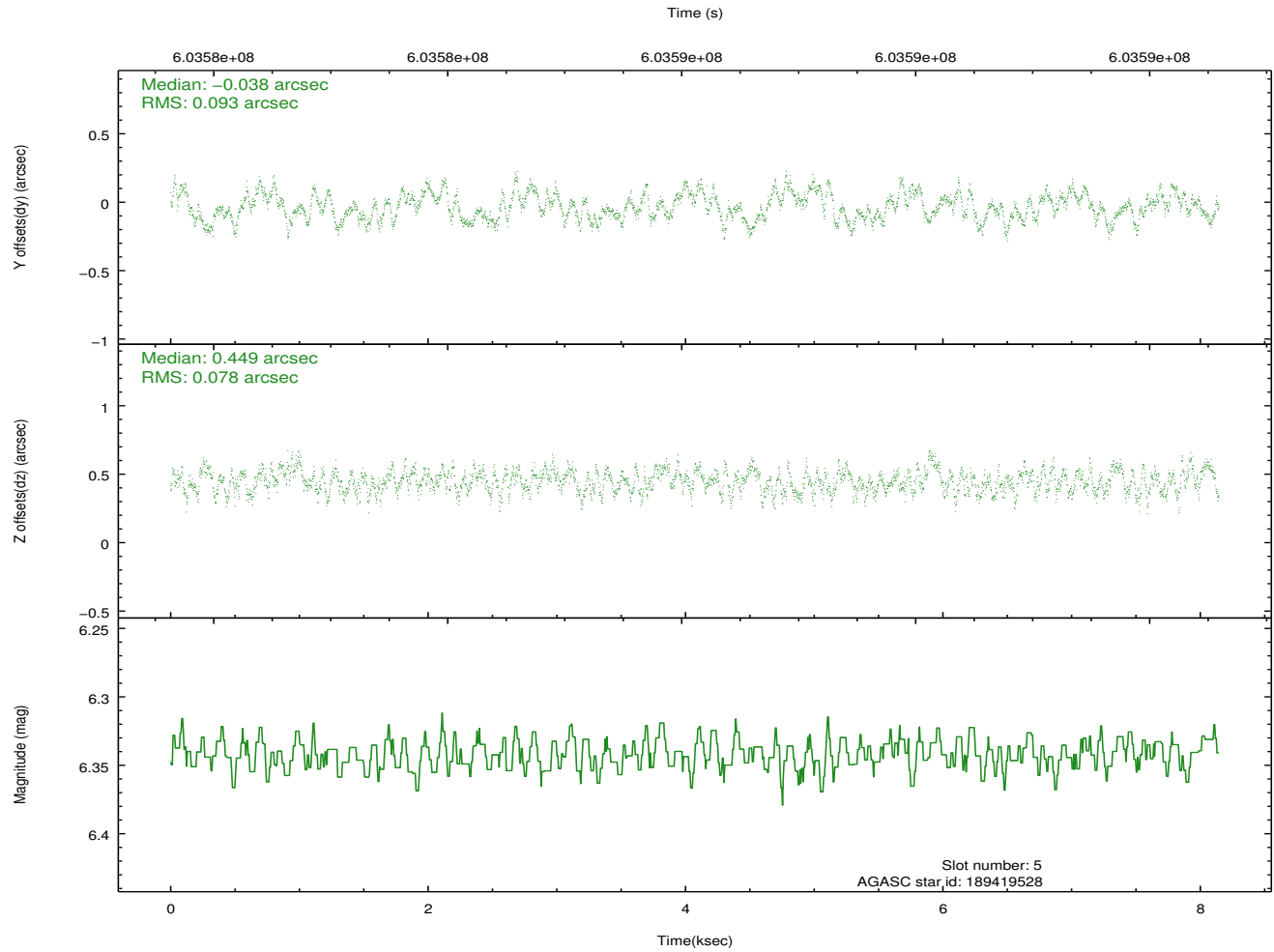
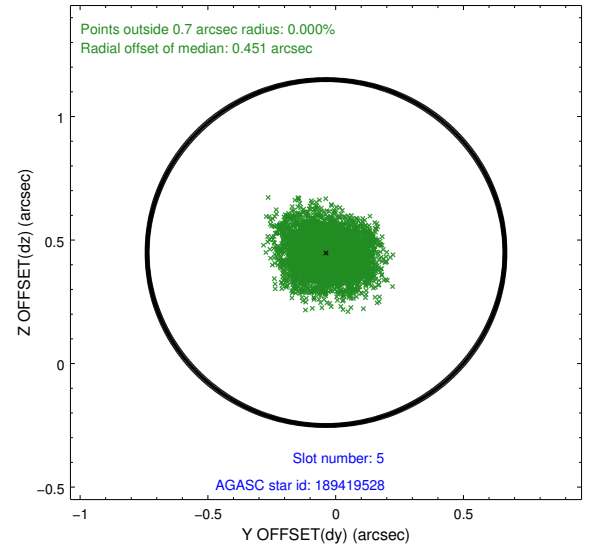
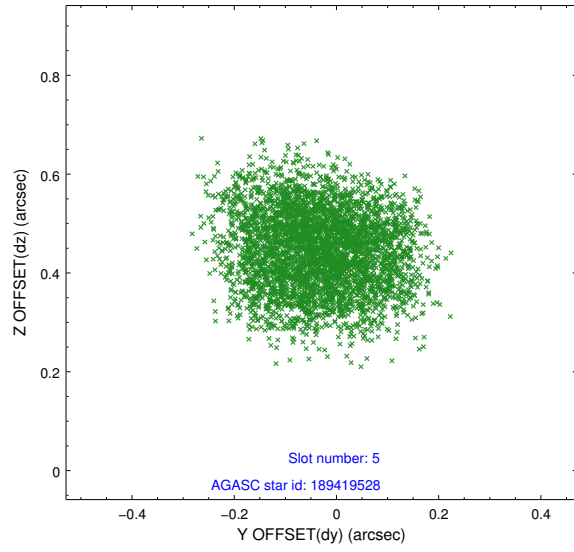
2.4.1 Slot 3



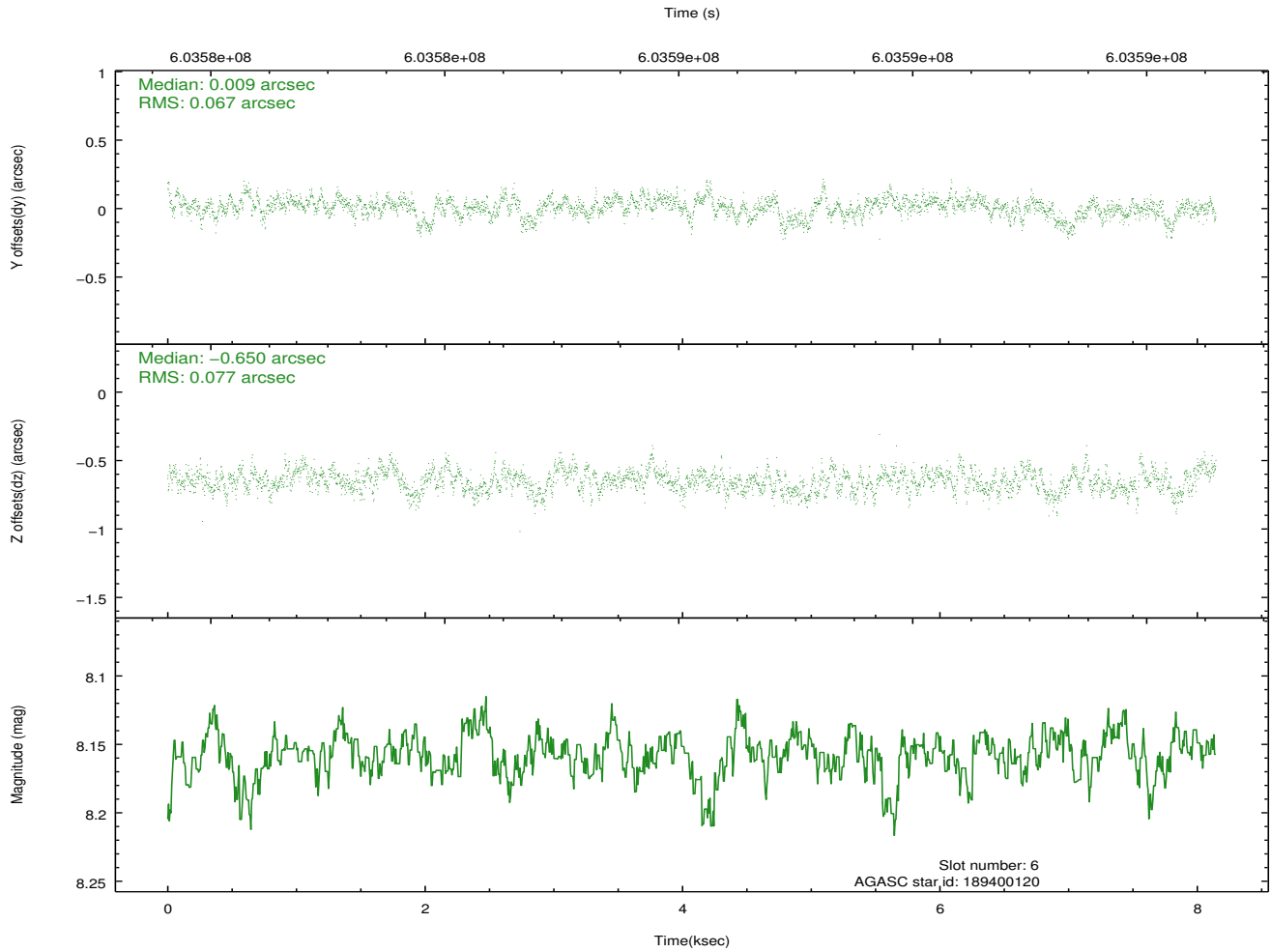
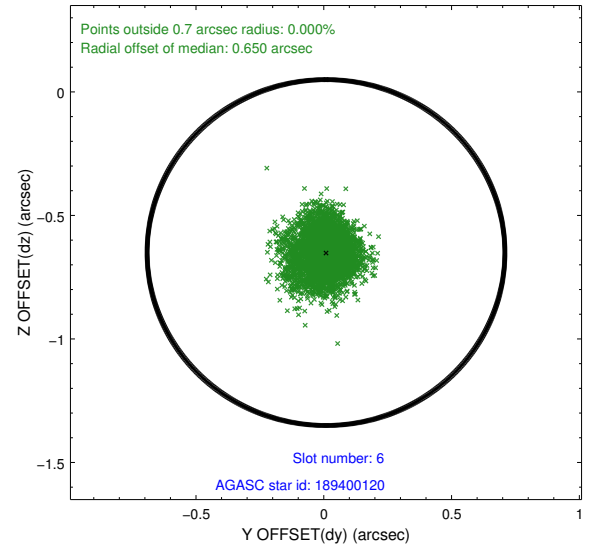
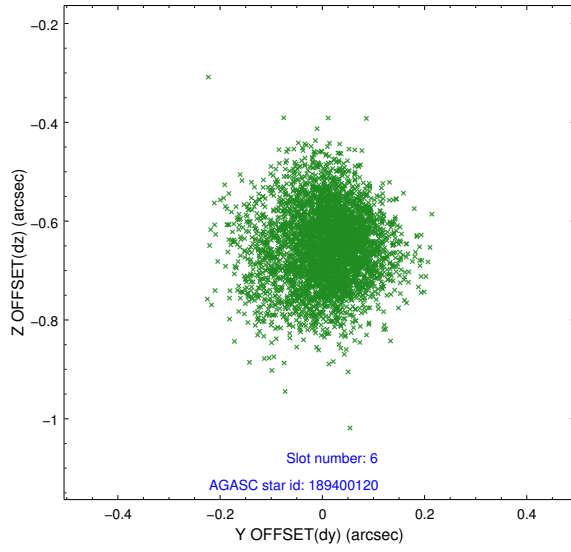
2.4.2 Slot 4



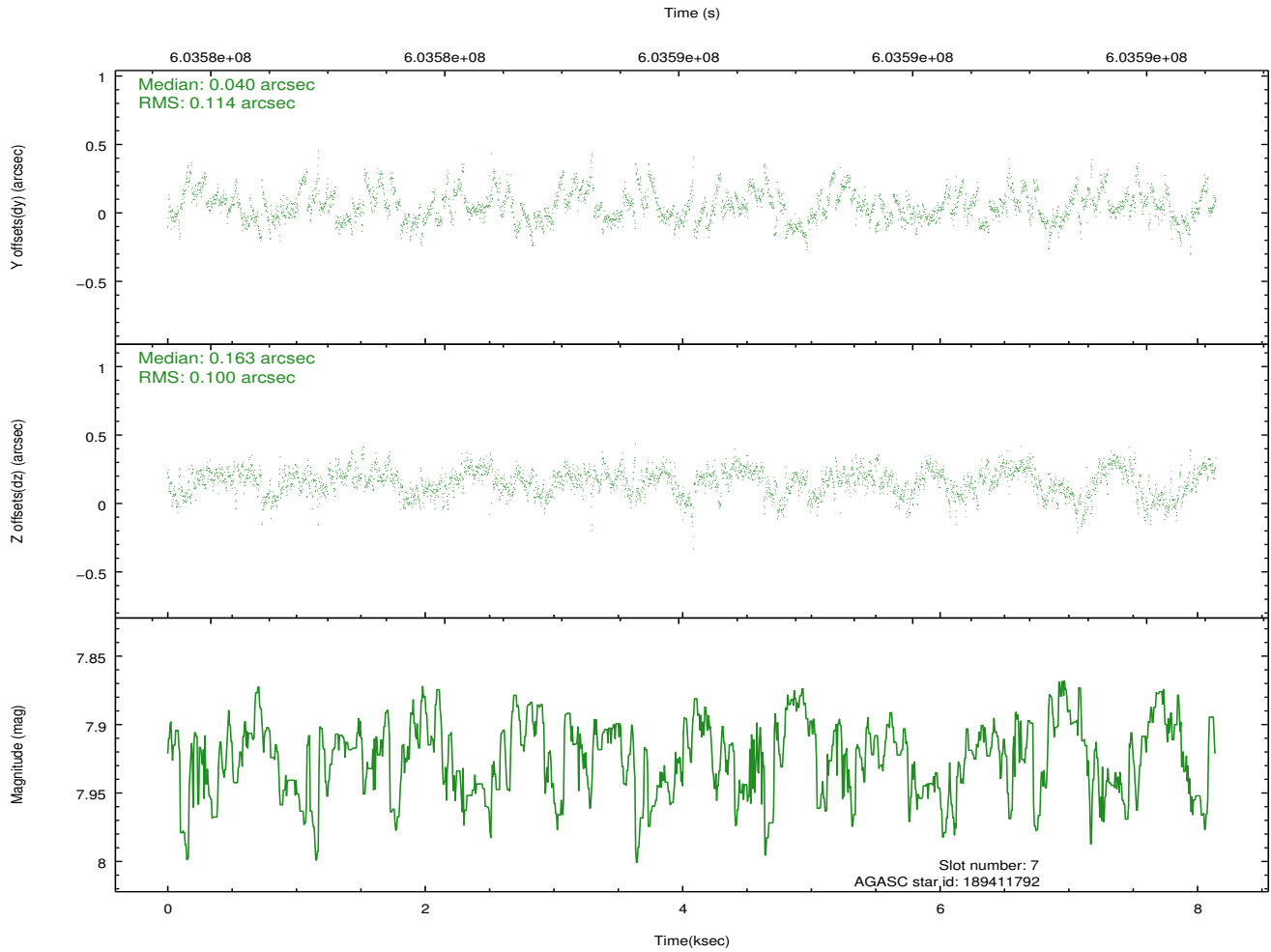
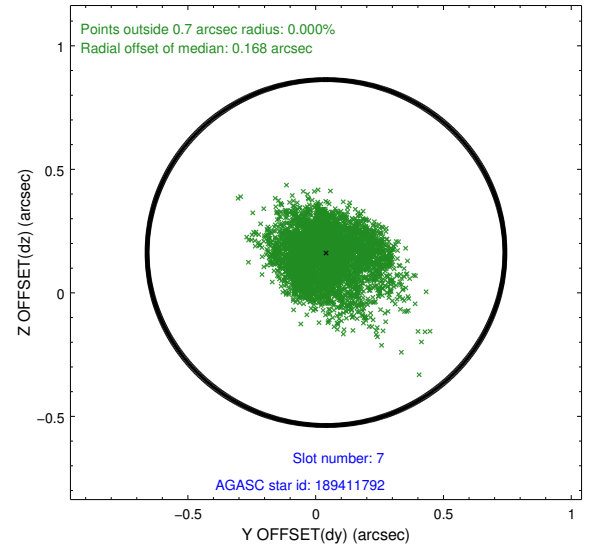
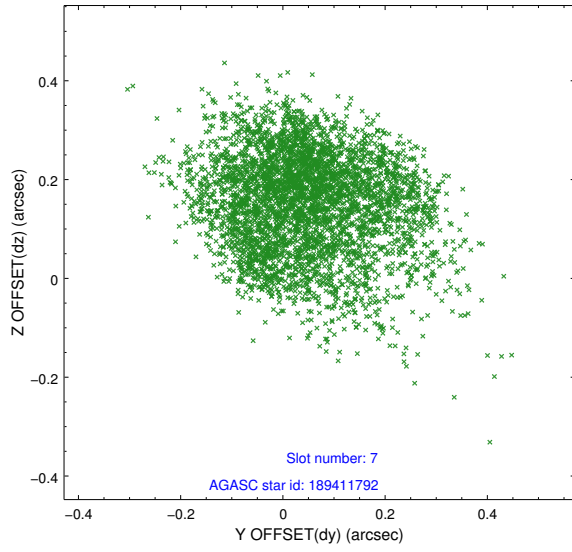
2.4.3 Slot 5



2.4.4 Slot 6

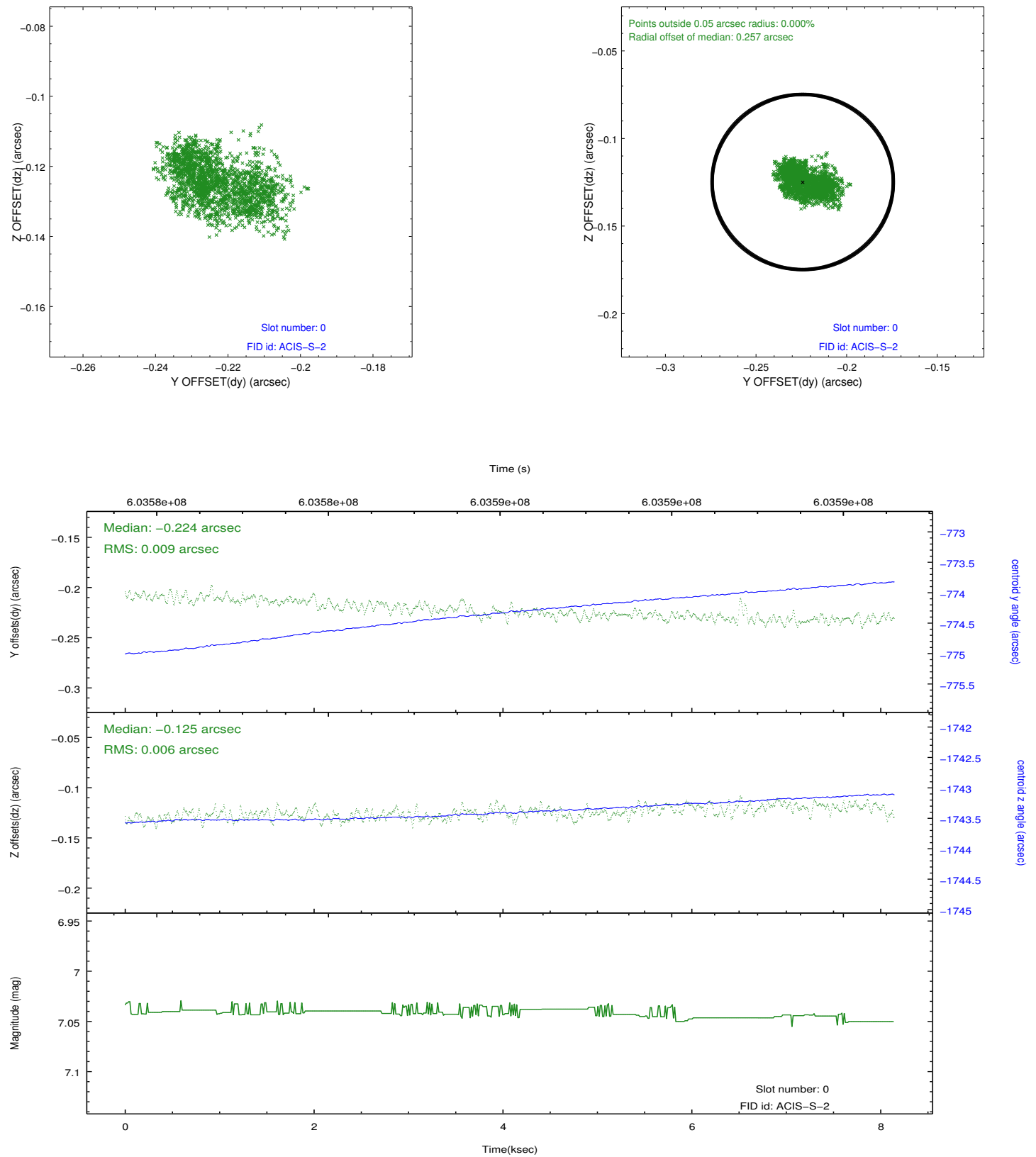


2.4.5 Slot 7

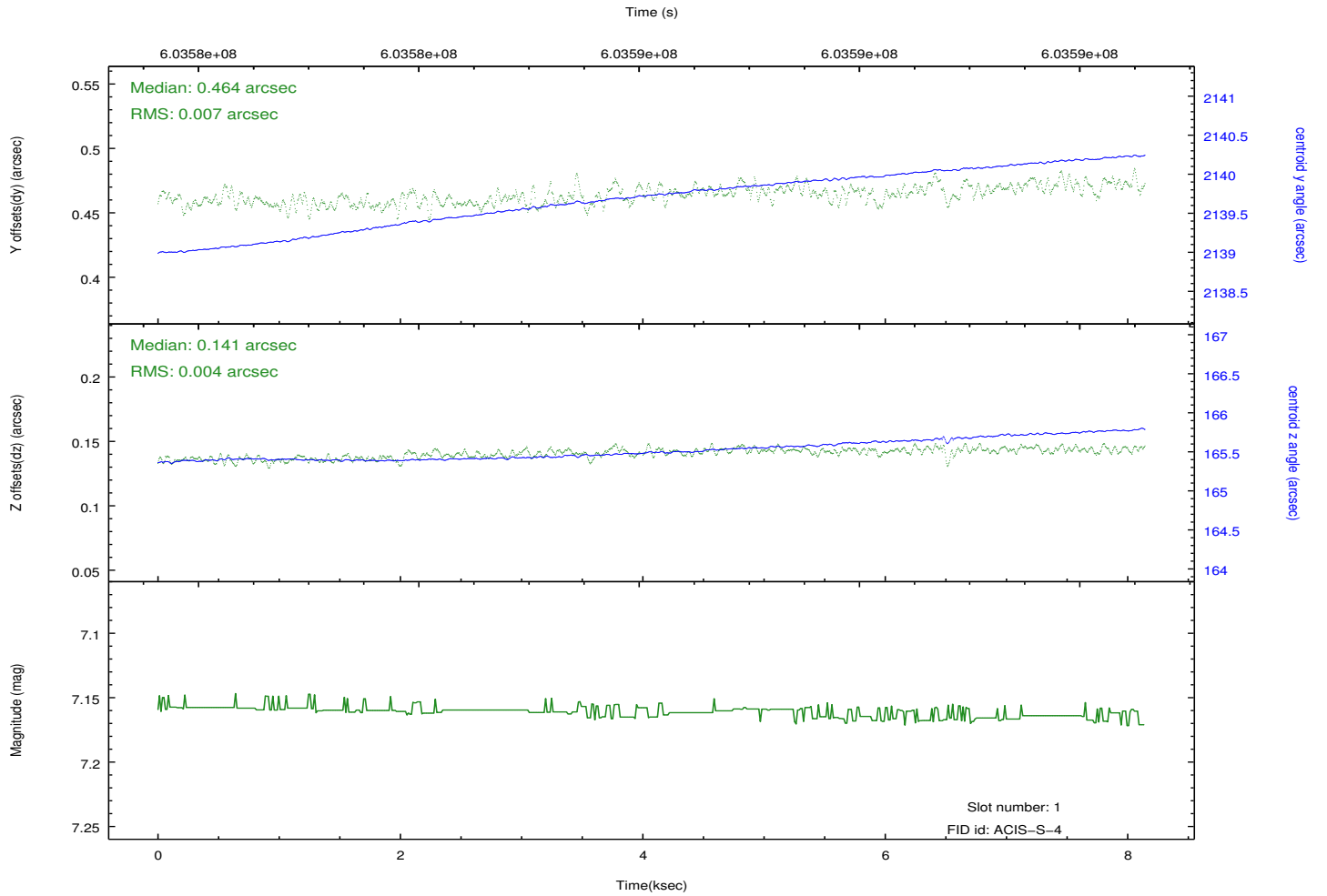
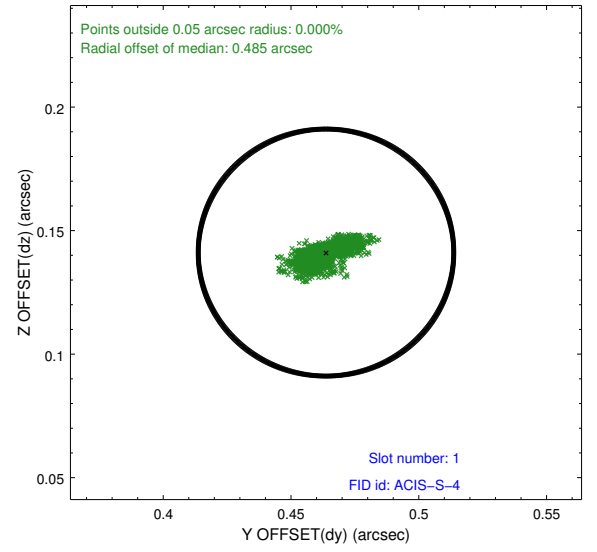
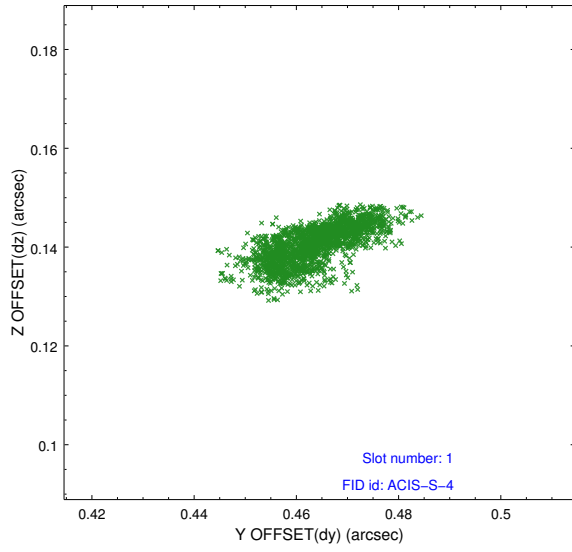


2.5 FID Slots

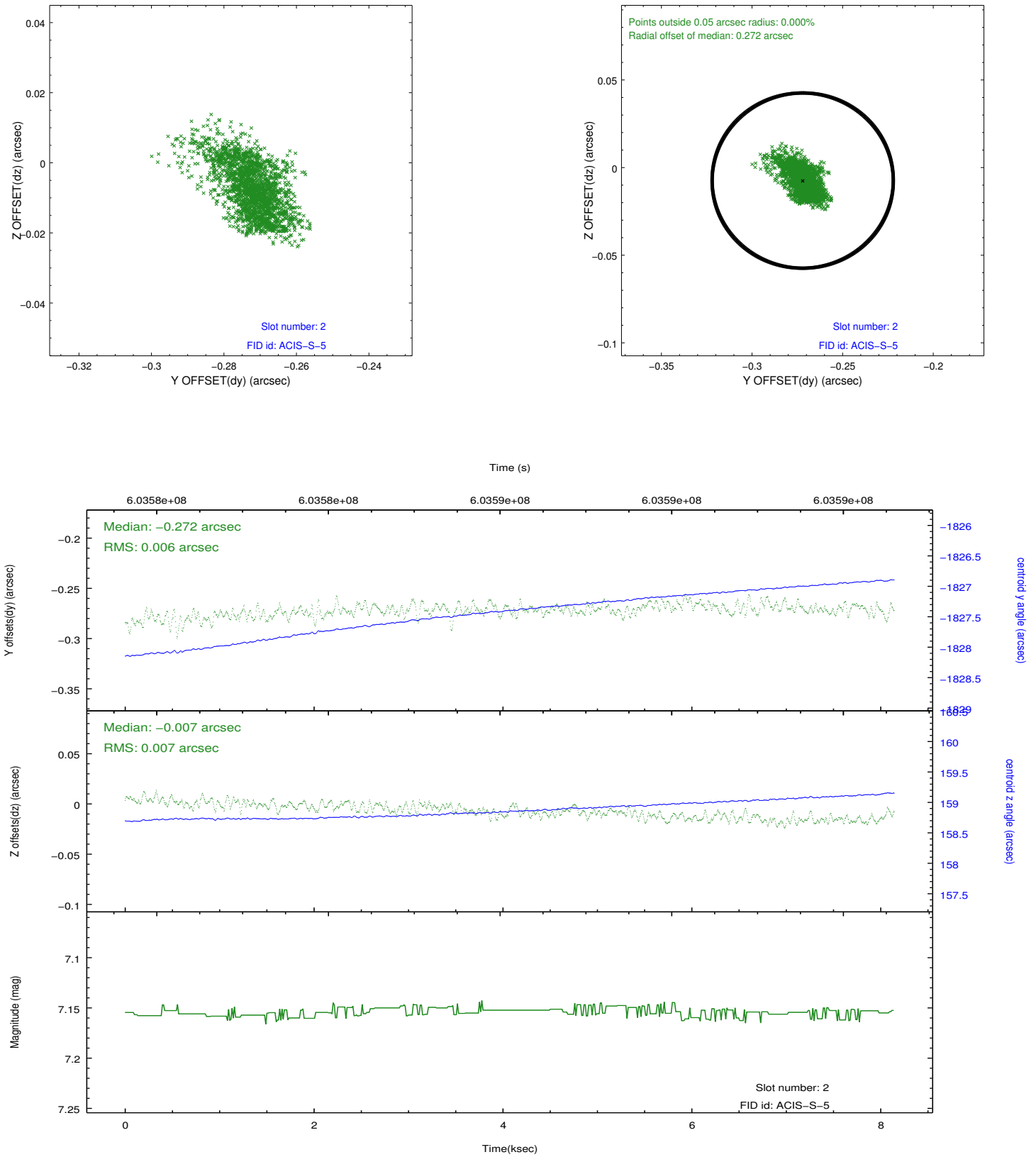
2.5.1 Slot 0



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)	2017.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.060000062108

A.2 Comments