

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21395 - L2 Version 2
Chandra X-Ray Center

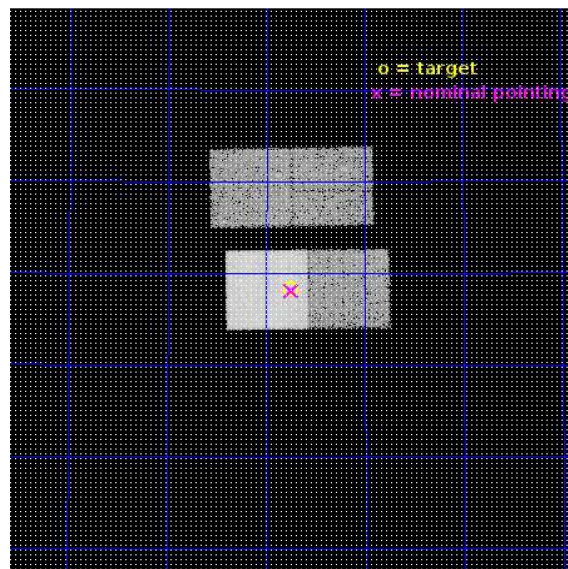
L2 Processing Date : Feb 25 2019

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1 Front

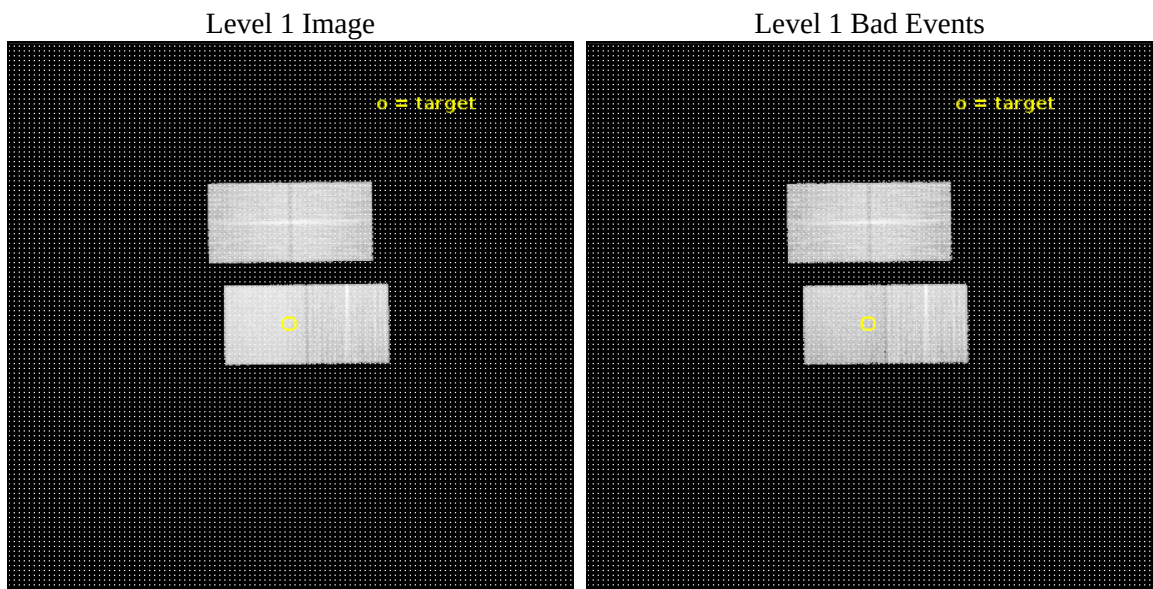
seq_num	703693	Sequence number
obs_id	21395	Observation id
title	COMPLETING THE CHANDRA EXTRAGALACTIC 3CR SURVEY	Proposal title
observer	Fr Massaro	Principal investigator
object	3CR 239.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	152.939167	Observer's specified target RA [deg]
dec_targ	46.472139	Observer's specified target Dec [deg]
ra_nom	152.93625570613	Nominal RA [deg]
dec_nom	46.468573377892	Nominal Dec [deg]
roll_nom	179.15869410611	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18066.80013907	Sum of GTIs [s]
livetime	17830.744094668	Livetime [s]
ontime2	18063.659168839	Sum of GTIs [s]
ontime3	18066.80013907	Sum of GTIs [s]
ontime6	18066.80013907	Sum of GTIs [s]
ontime7	18066.80013907	Sum of GTIs [s]
l2events	116160	Number of level 2 events



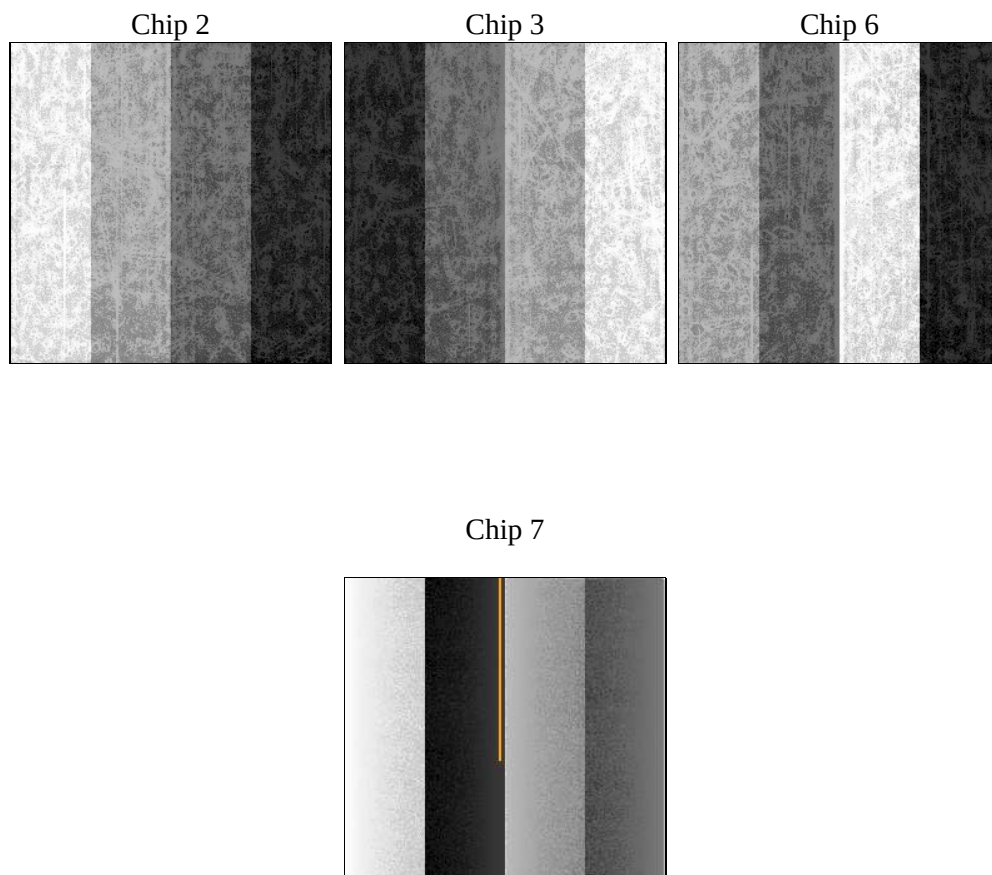
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	18066.80013907	Sum of GTIs [s]
caldbver	4.8.2	 	ontime2	18063.659168839	Sum of GTIs [s]
date	2019-02-25T21:25:19	Date and time of file creation	ontime3	18066.80013907	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	18066.80013907	Sum of GTIs [s]
			ontime7	18066.80013907	Sum of GTIs [s]
			l1events	592848	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	139161	132417	141715	179555
rejected events	123893	117826	125818	101053
rejected %	89%	88%	88%	56%

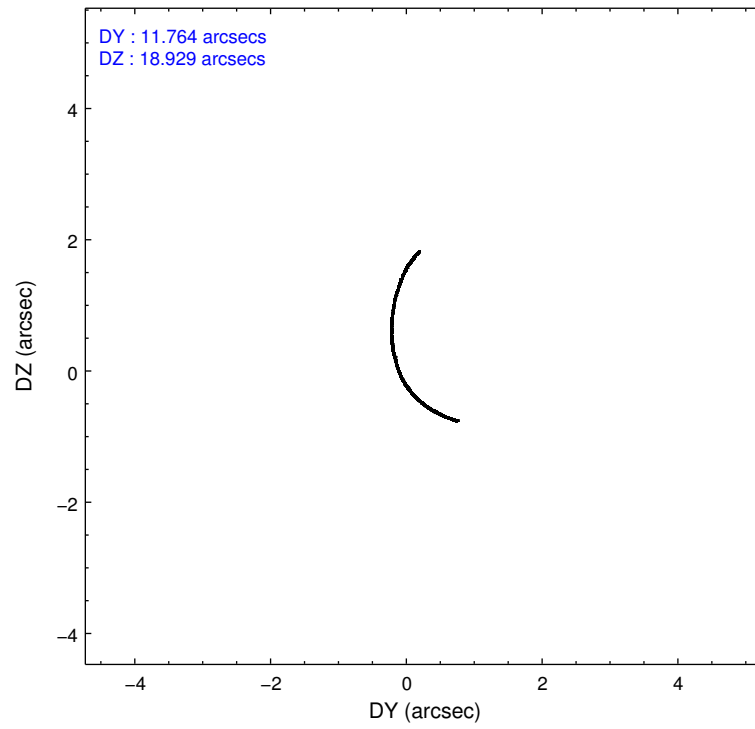
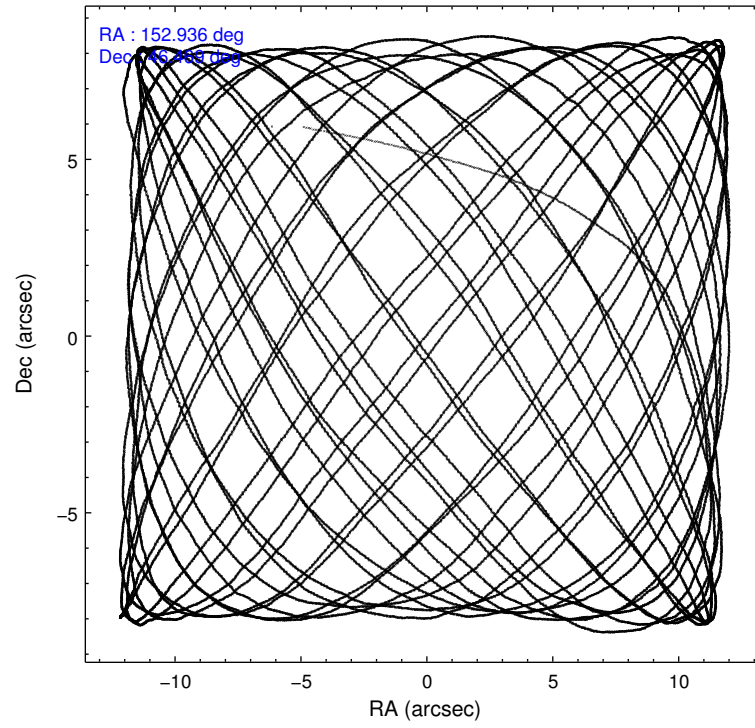
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5507	5185	5286	6514
	3%	3%	3%	3%
grade 1 events	83	67	82	299
	0%	0%	0%	0%
grade 2 events	3711	3264	3770	16725
	2%	2%	2%	9%
grade 3 events	1485	1561	1538	6201
	1%	1%	1%	3%
grade 4 events	1530	1603	1546	6118
	1%	1%	1%	3%
grade 5 events	5437	6667	6820	17828
	3%	5%	4%	9%
grade 6 events	3042	2985	3762	42971
	2%	2%	2%	23%
grade 7 events	118366	111085	118911	82899
	85%	83%	83%	46%

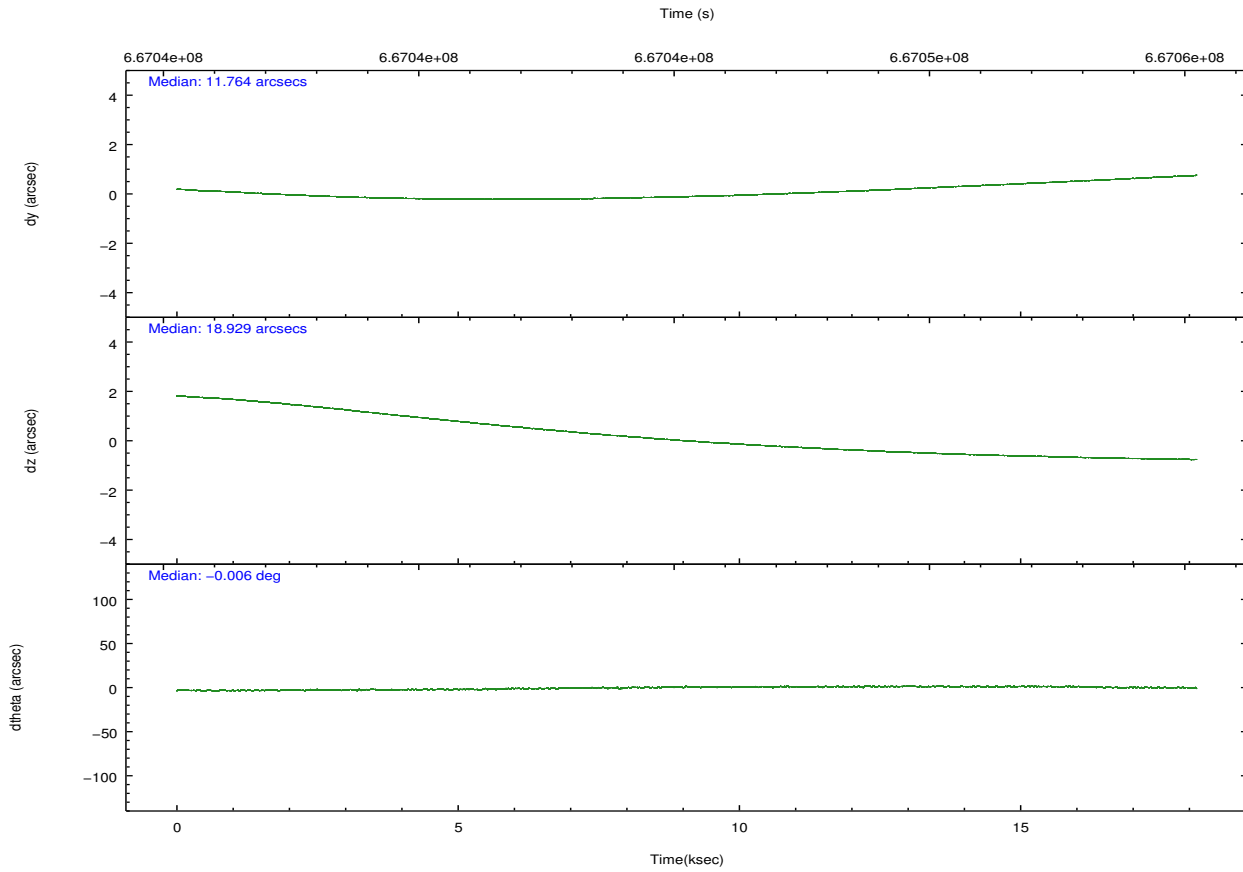
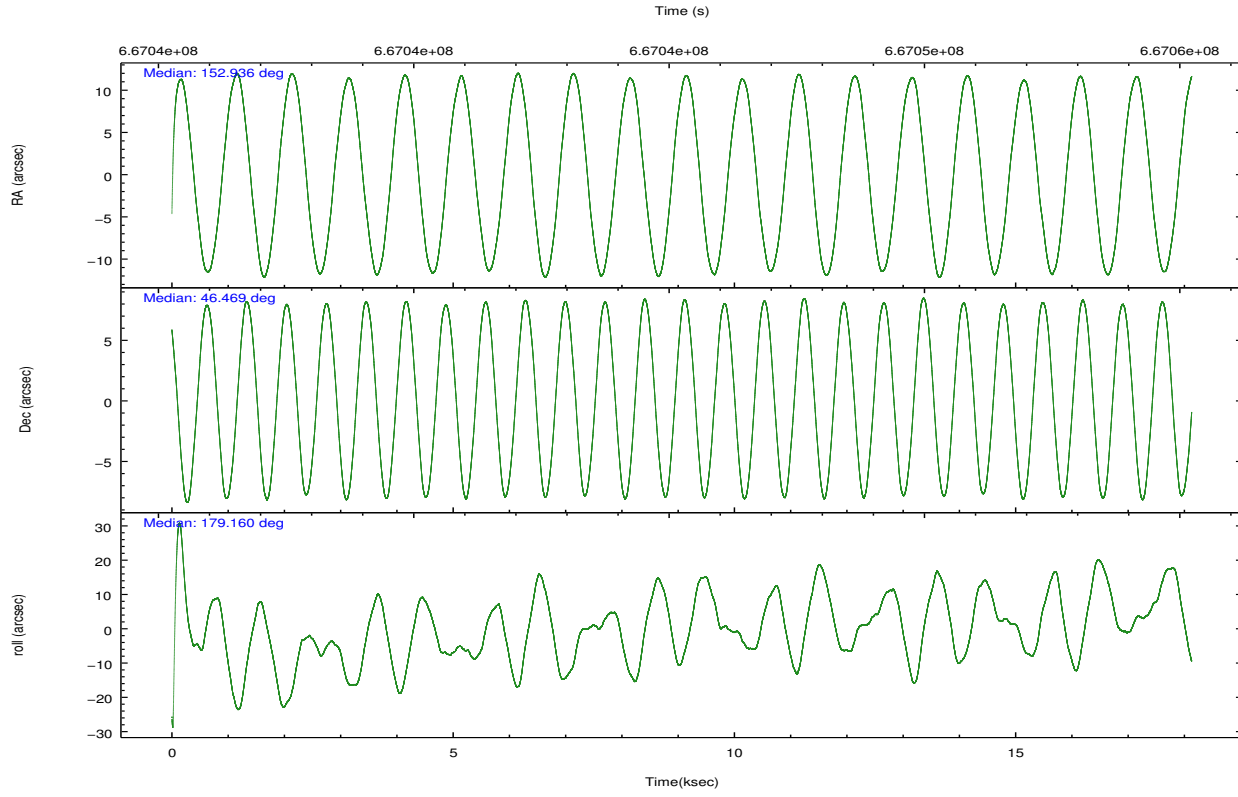
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	152.970789	152.9362557061256
[deg] Pointing Dec	46.482293	46.46857337789174
[deg] Pointing Roll	178.977076	179.1586941061059
[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)	667036316.184000	667035031.3717901
Observation start date	2019-02-20T07:50:47	2019-02-20T07:30:31
[s] Observation end time (MET)	667054316.184000	667055230.5355
Observation end date	2019-02-20T12:50:47	2019-02-20T13:07:10
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



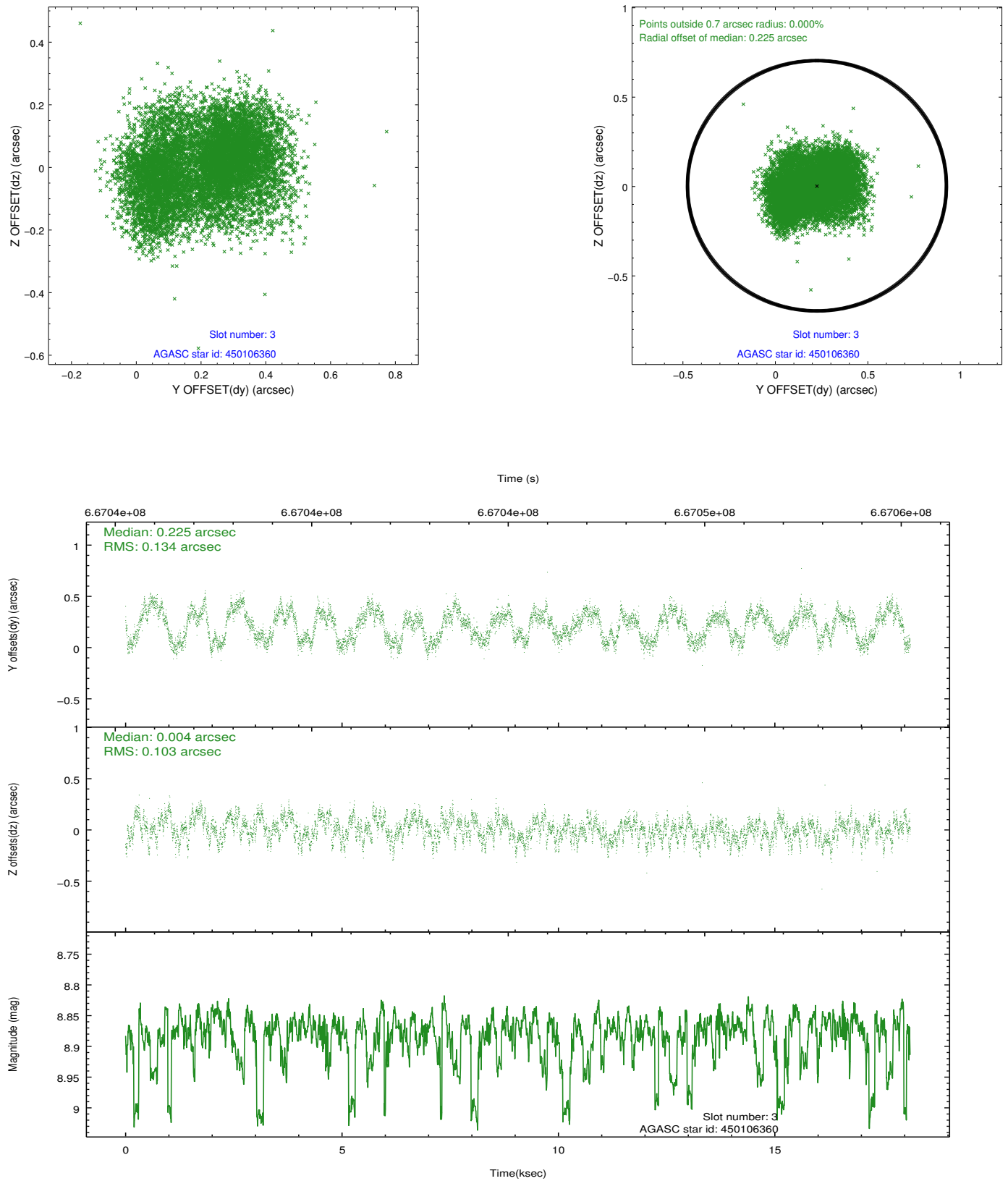


Slot Statistics

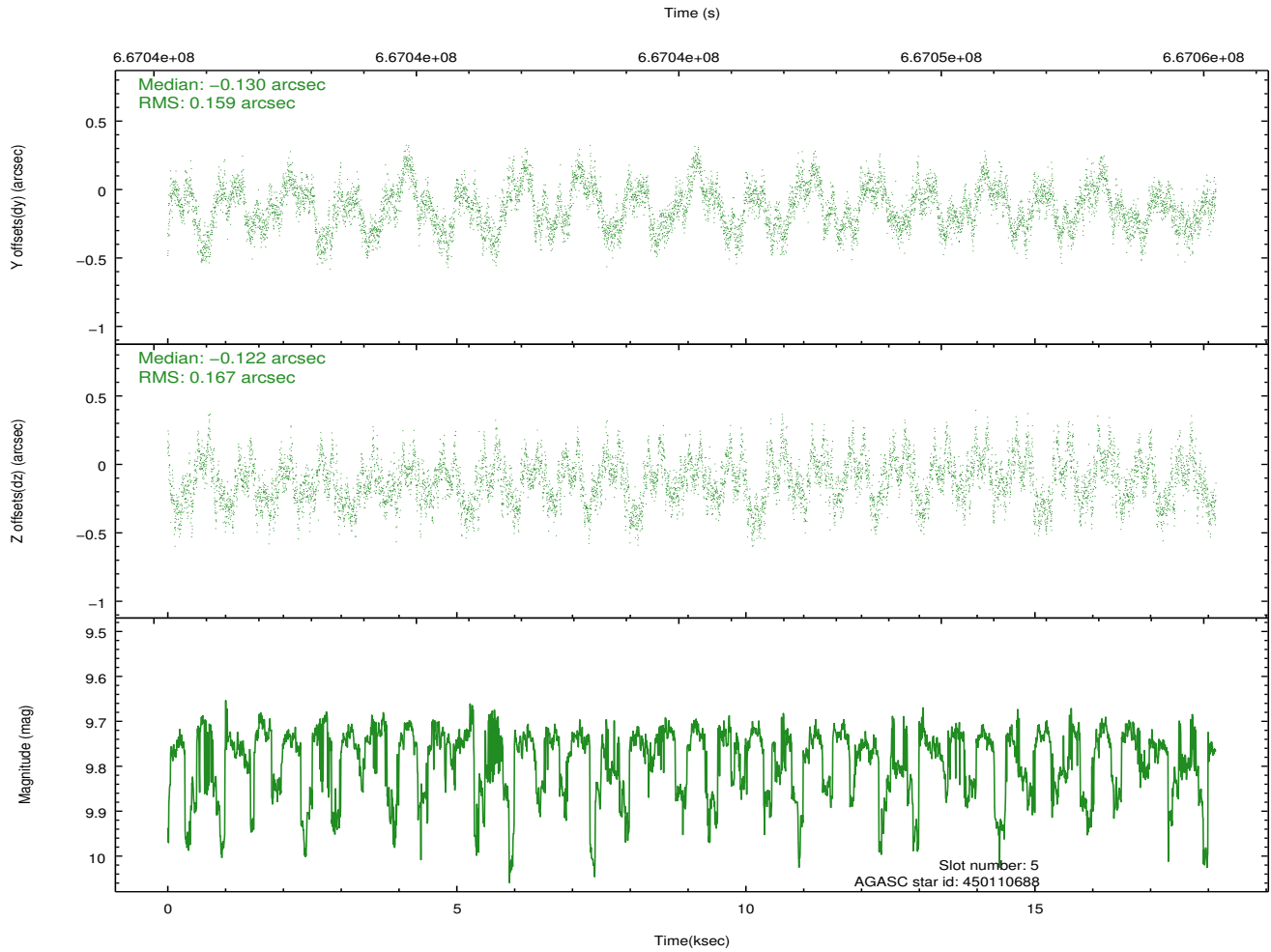
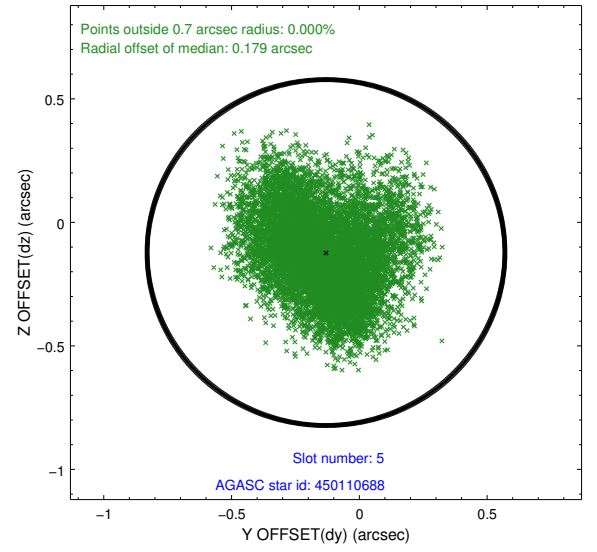
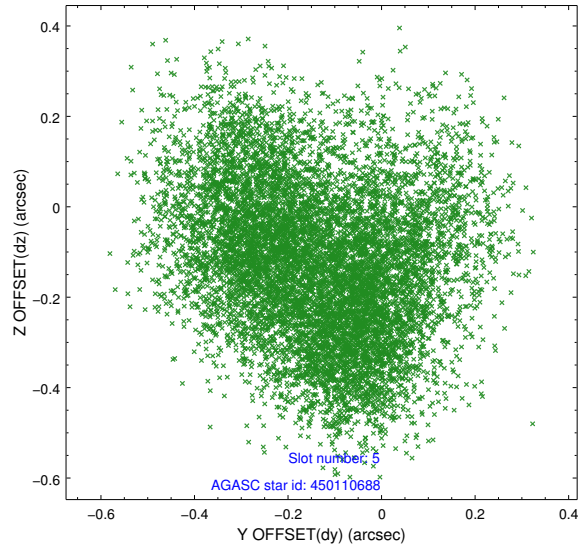
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	4422	1.000	-0.259	-0.150	0.045	0.063	0.000000	0.000000	-764.93	-1740
1	FID		ACIS-S-4	7.13	4422	1.000	0.649	0.164	0.008	0.016	0.000000	0.000000	2149.09	167
2	FID		ACIS-S-5	7.11	4422	1.000	-0.422	-0.006	0.050	0.066	0.000000	0.000000	-1817.71	161
3	GUIDE	used	450106360	8.88	8839	1.000	0.225	0.004	0.186	0.272	152.309175	46.283982	1637.25	737
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	450110688	9.76	8821	1.000	-0.130	-0.122	0.251	0.382	152.292421	45.851024	1661.29	2295
6	GUIDE	used	450110976	9.64	8809	1.000	-0.072	0.107	0.186	0.326	152.793985	46.241610	424.31	874
7	GUIDE	used	450237240	9.42	8729	1.000	-0.010	0.029	0.278	0.449	153.796738	45.832449	-2113.08	2291

2.4 Star Slots

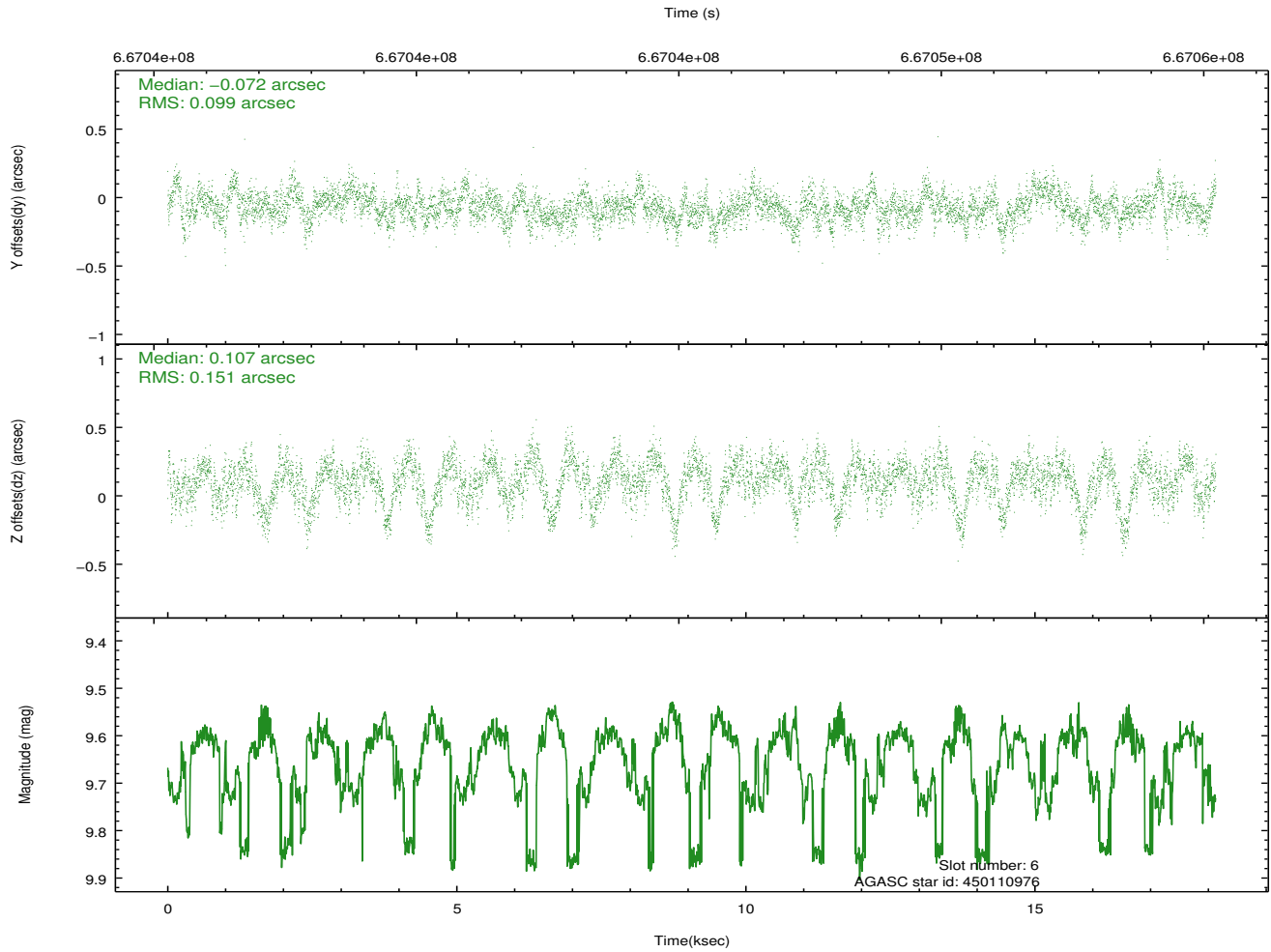
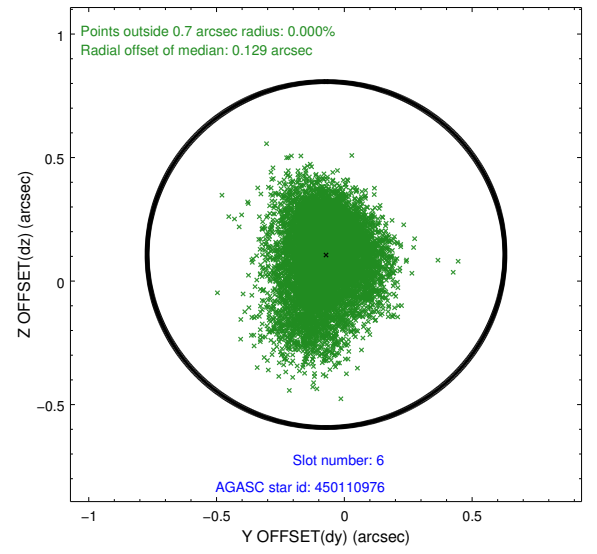
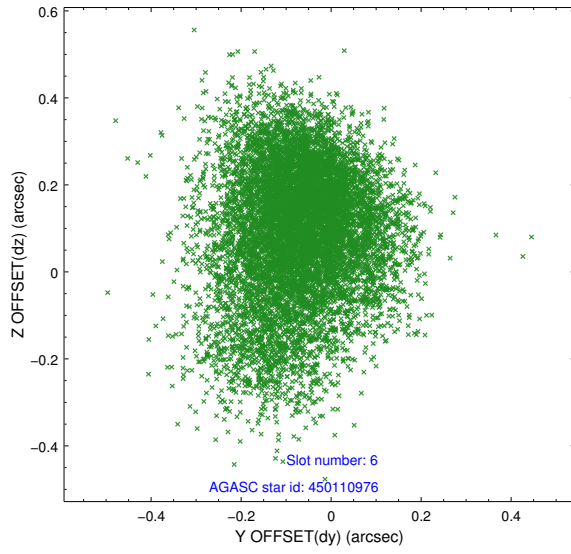
2.4.1 Slot 3



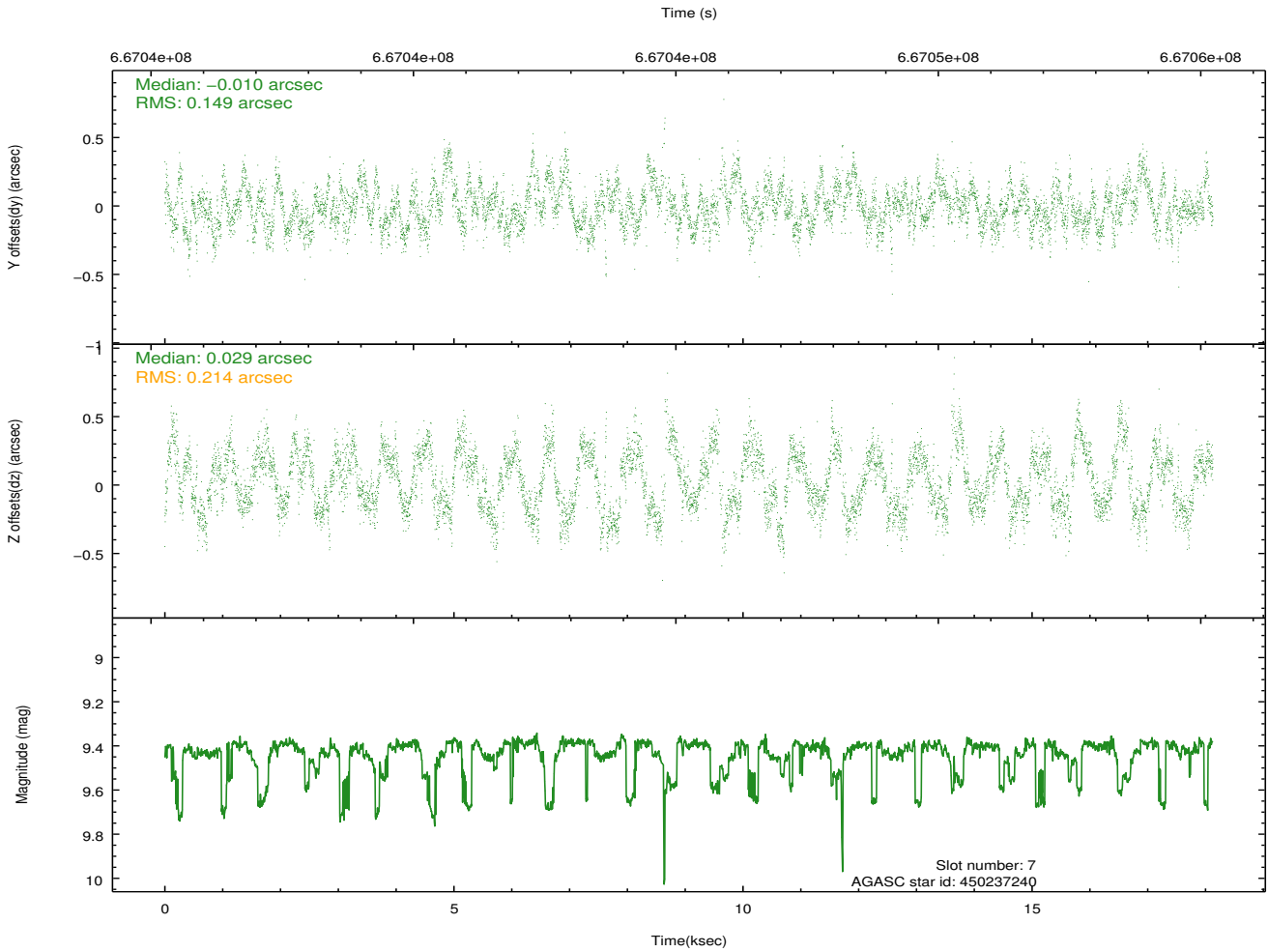
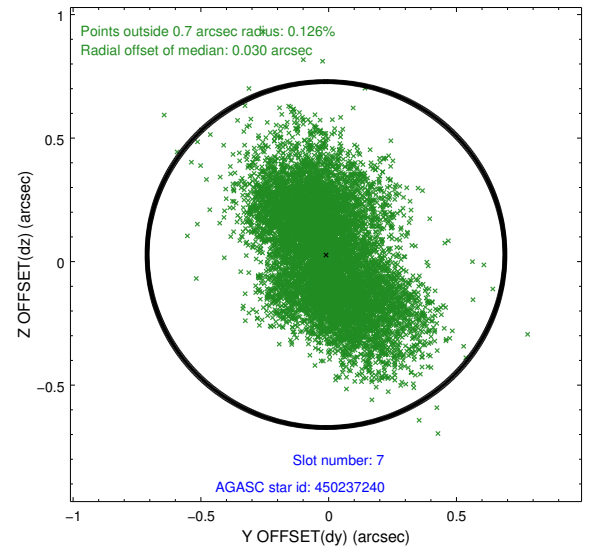
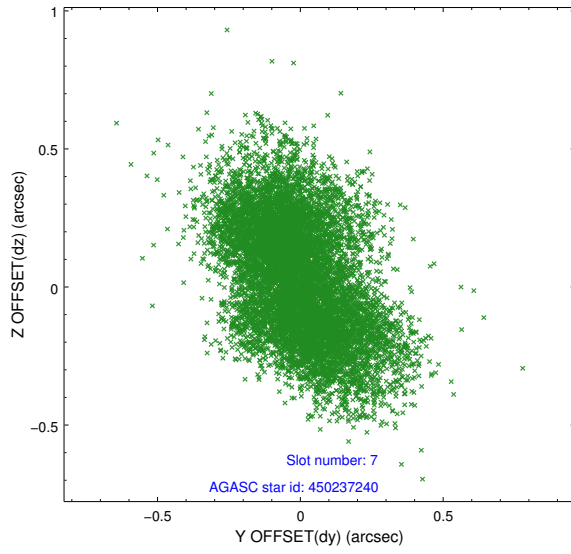
2.4.2 Slot 5



2.4.3 Slot 6

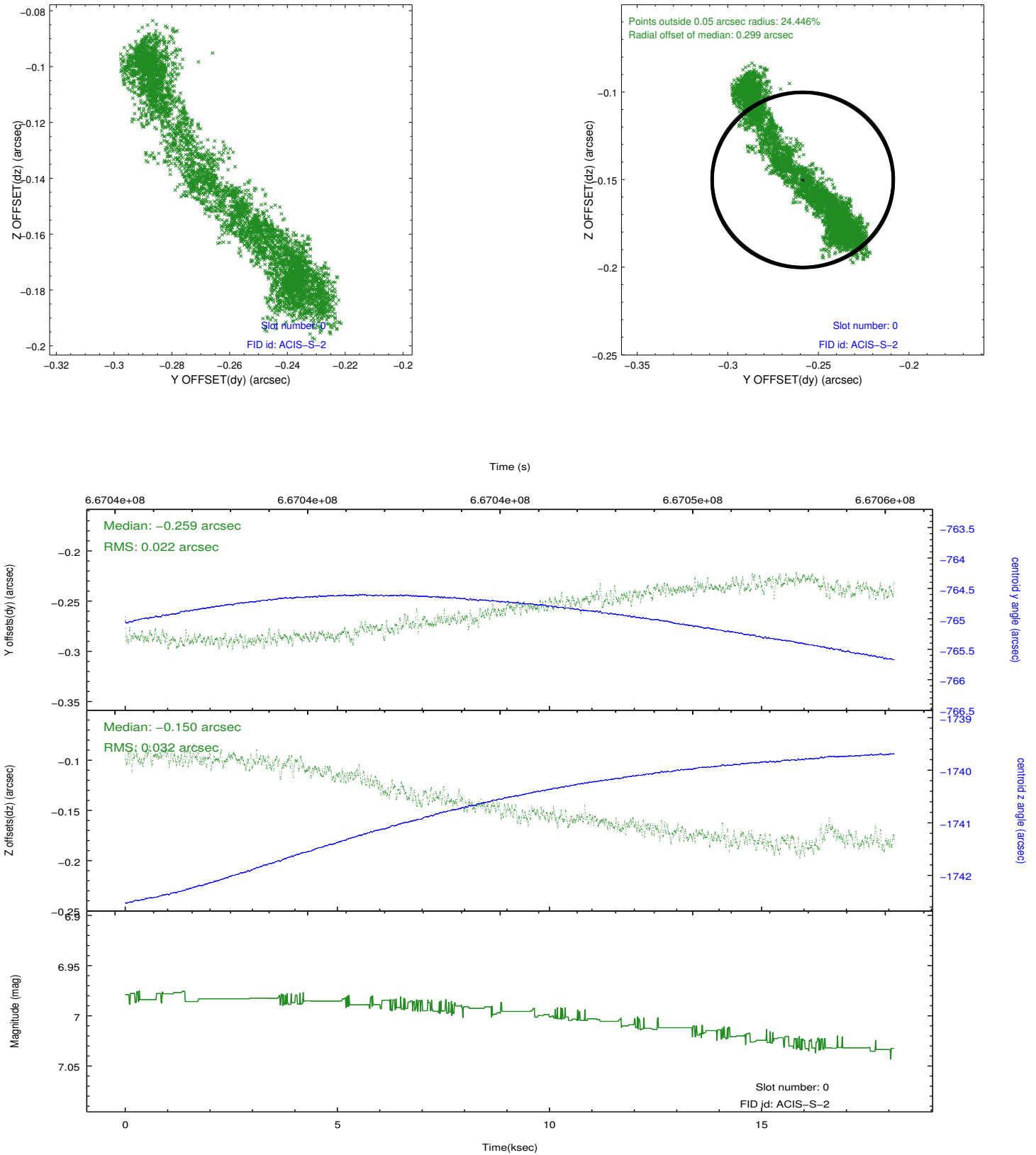


2.4.4 Slot 7

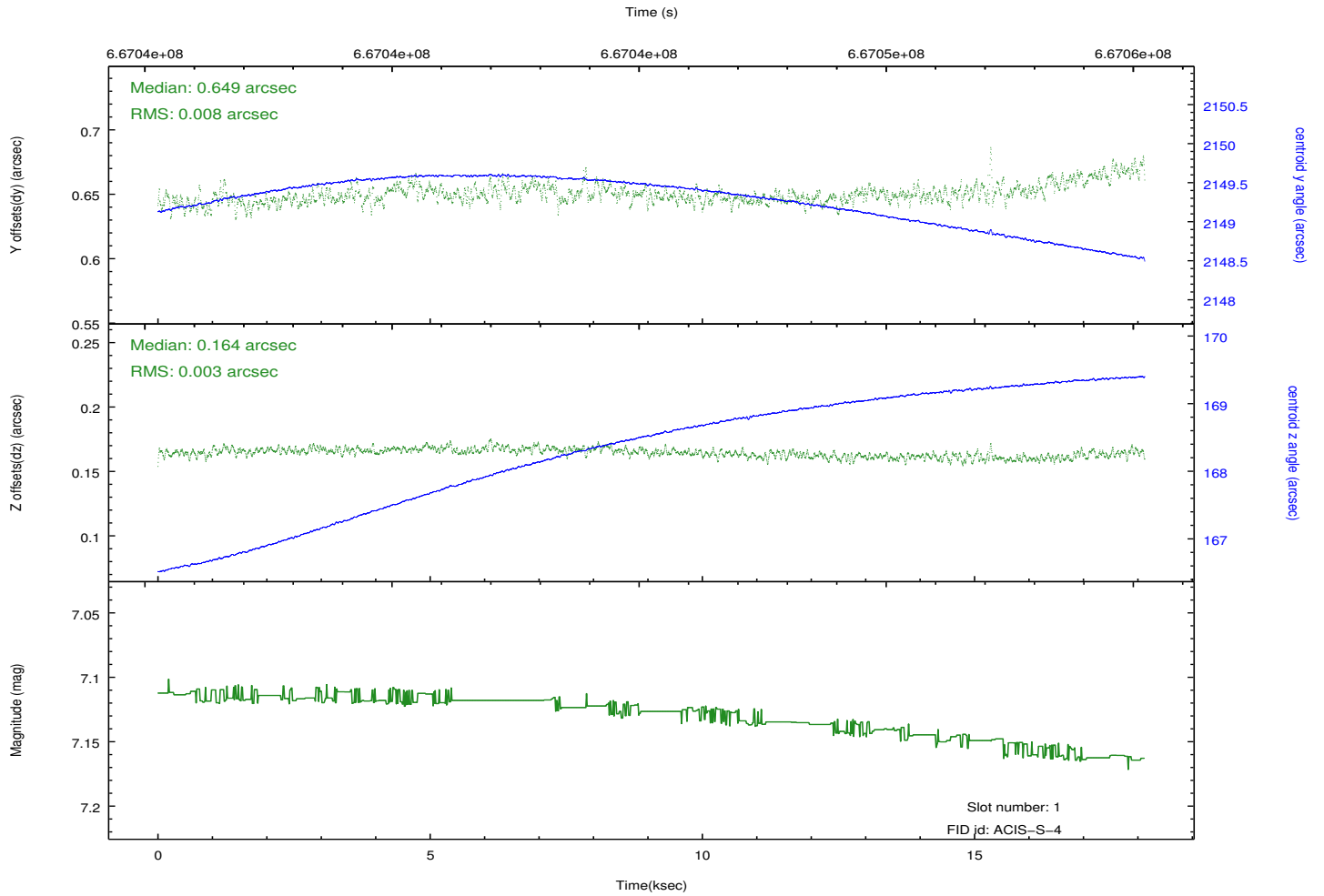
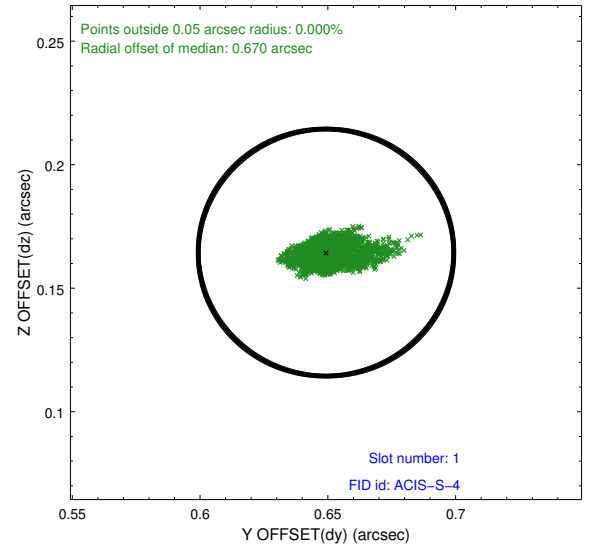
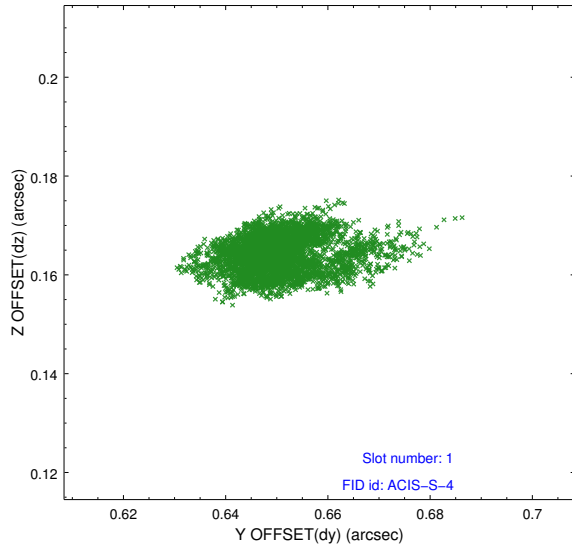


2.5 FID Slots

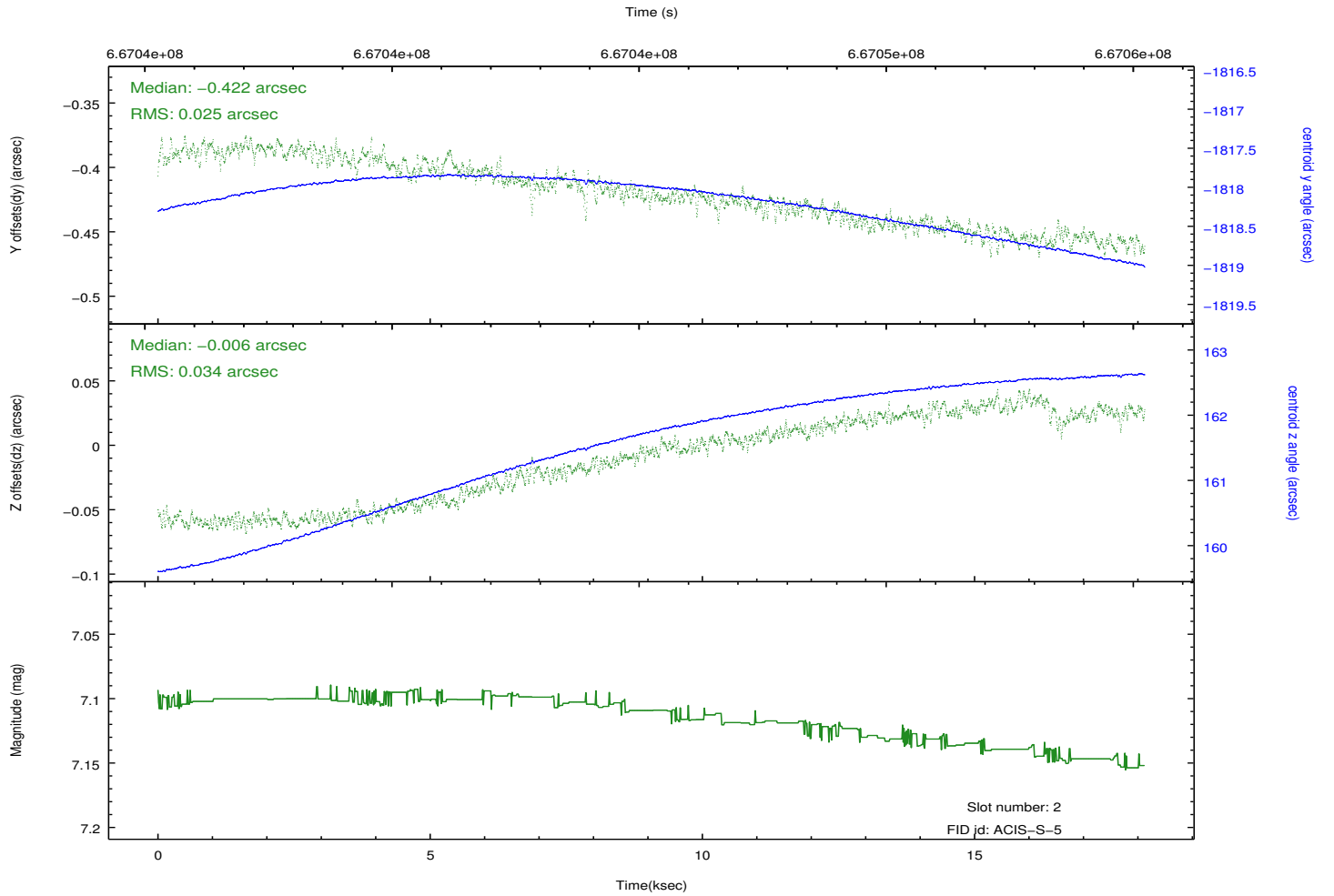
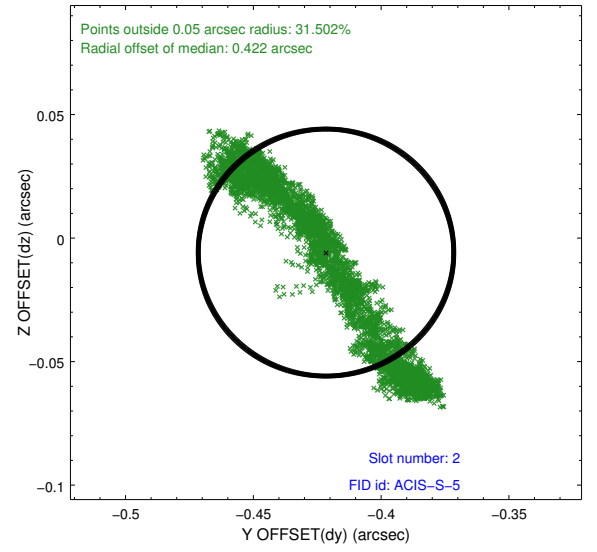
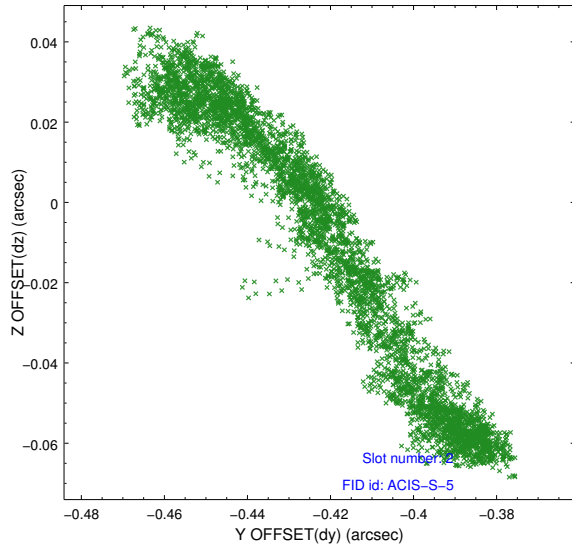
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.02.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.06680013907

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 guide star from the solution.