

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 20264 - L2 Version 2  
Chandra X-Ray Center

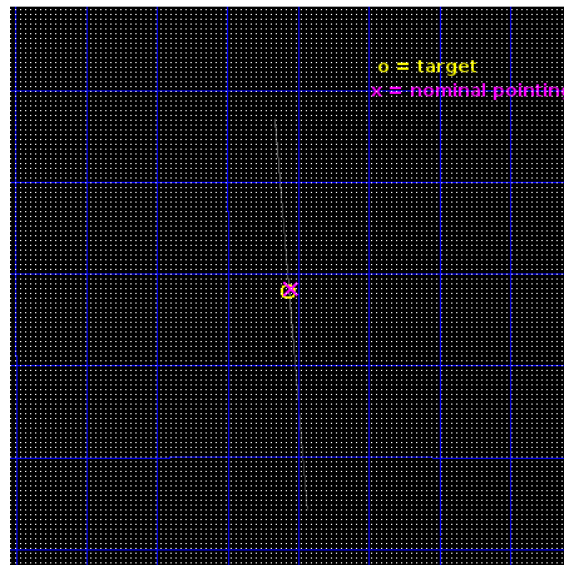
L2 Processing Date : Mar 1 2018

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# 1 Front

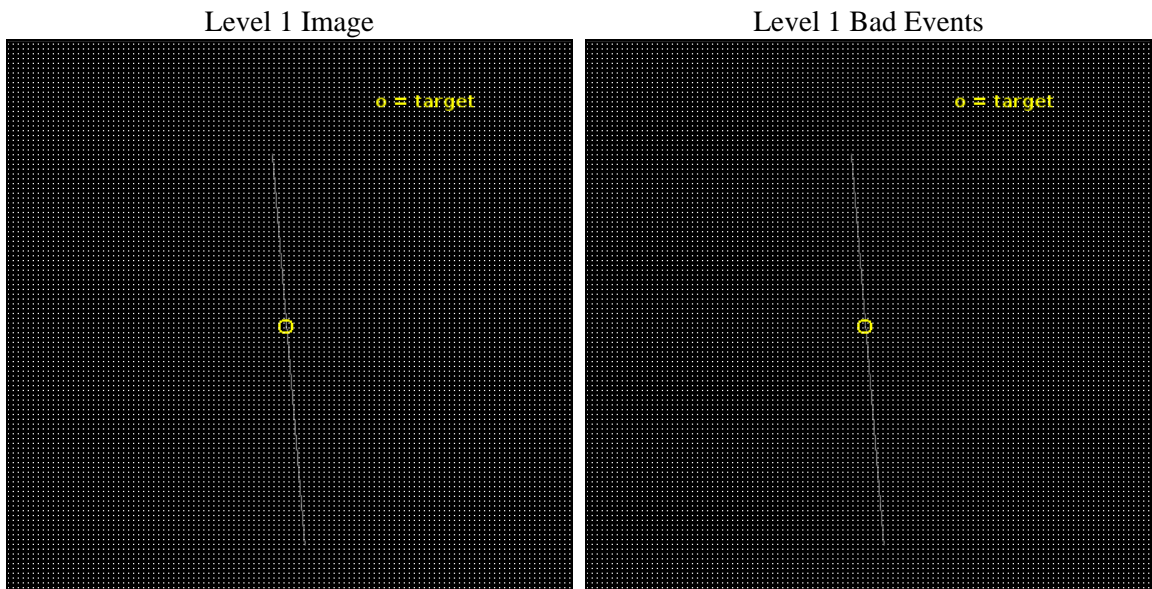
seq_num	401991	Sequence number
obs_id	20264	Observation id
title	A Test of Black-Hole Disk Truncation: Thermal Disk Emission in the Bright Hard State	Proposal title
observer	James Steiner	Principal investigator
object	MAXI J1813-095	Source name
ra_targ	273.391667	Observer's specified target RA [deg]
dec_targ	-9.533056	Observer's specified target Dec [deg]
ra_nom	273.3869733942	Nominal RA [deg]
dec_nom	-9.5272877201337	Nominal Dec [deg]
roll_nom	85.424454246684	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20103.25	Sum of GTIs [s]
livetime	20024.721679688	Livetime [s]
ontime5	20103.25	Sum of GTIs [s]
ontime6	20103.25	Sum of GTIs [s]
ontime7	20103.25	Sum of GTIs [s]
ontime8	20103.25	Sum of GTIs [s]
ontime9	20103.25	Sum of GTIs [s]
l2events	818247	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20103.25	Sum of GTIs [s]
caldbver	4.7.7	&#160	ontime5	20103.25	Sum of GTIs [s]
date	2018-03-01T22:03:17	Date and time of file creation	ontime6	20103.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	20103.25	Sum of GTIs [s]
			ontime8	20103.25	Sum of GTIs [s]
			ontime9	20103.25	Sum of GTIs [s]
			l1events	2259126	Number of level 1 events

### 2.1.3 Events

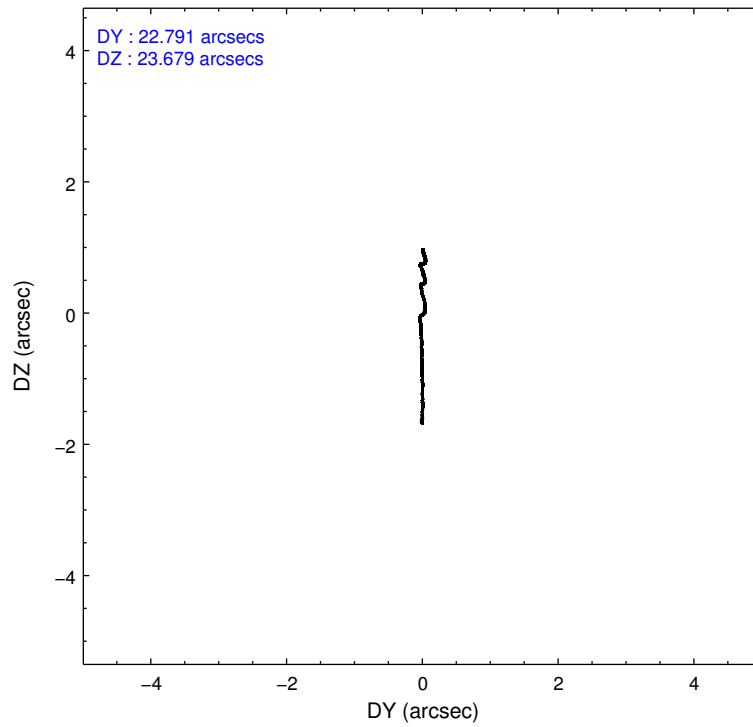
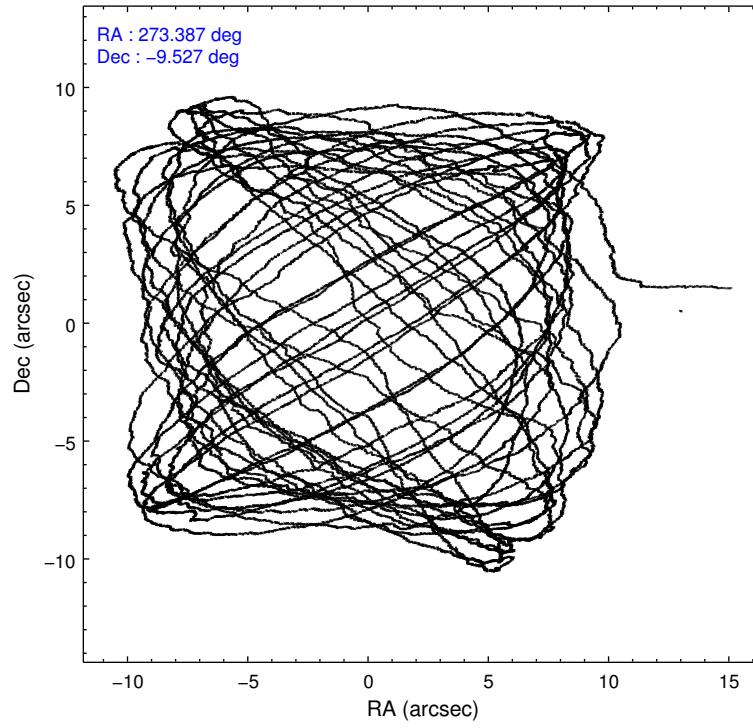
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	363354	262564	941707	419293	272208
rejected events	207850	227066	310568	349421	245339
rejected %	57%	86%	32%	83%	90%

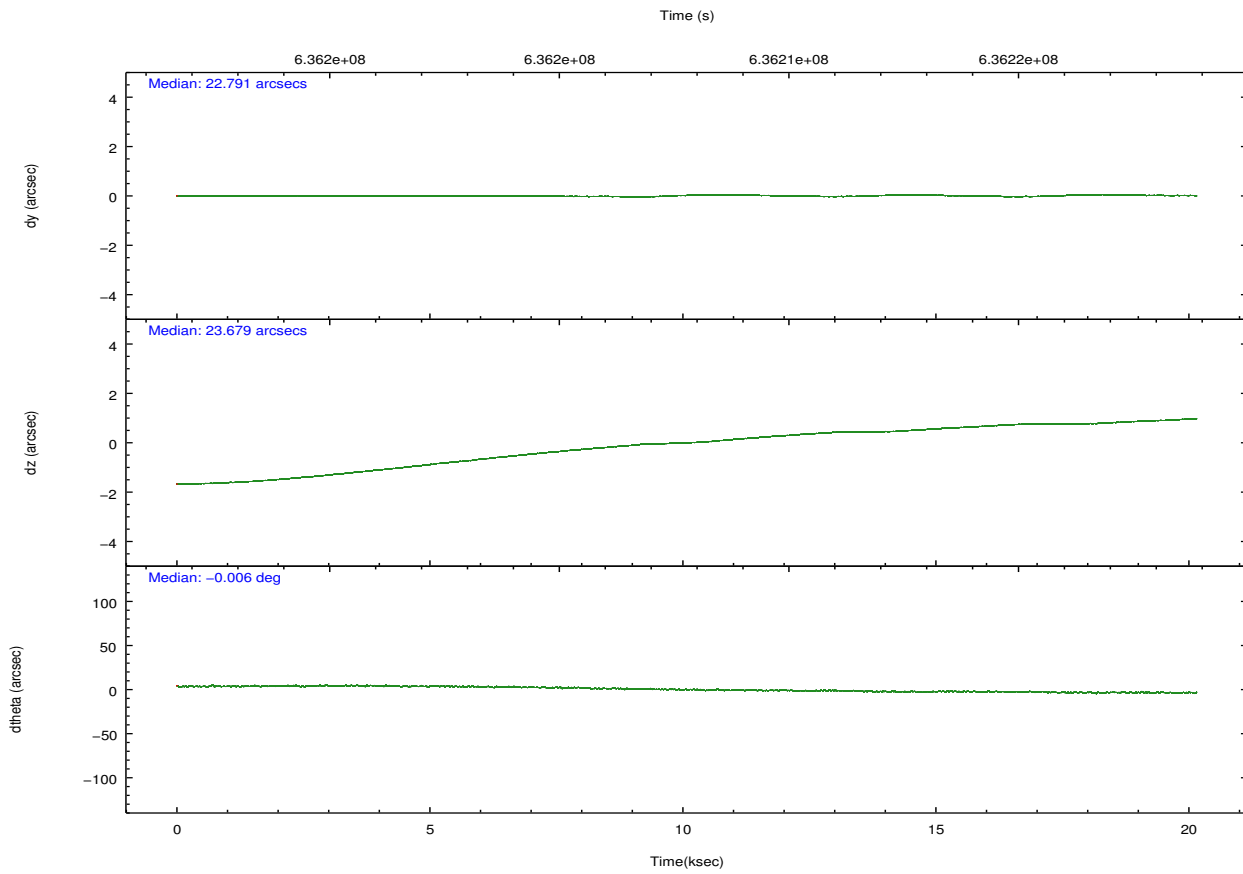
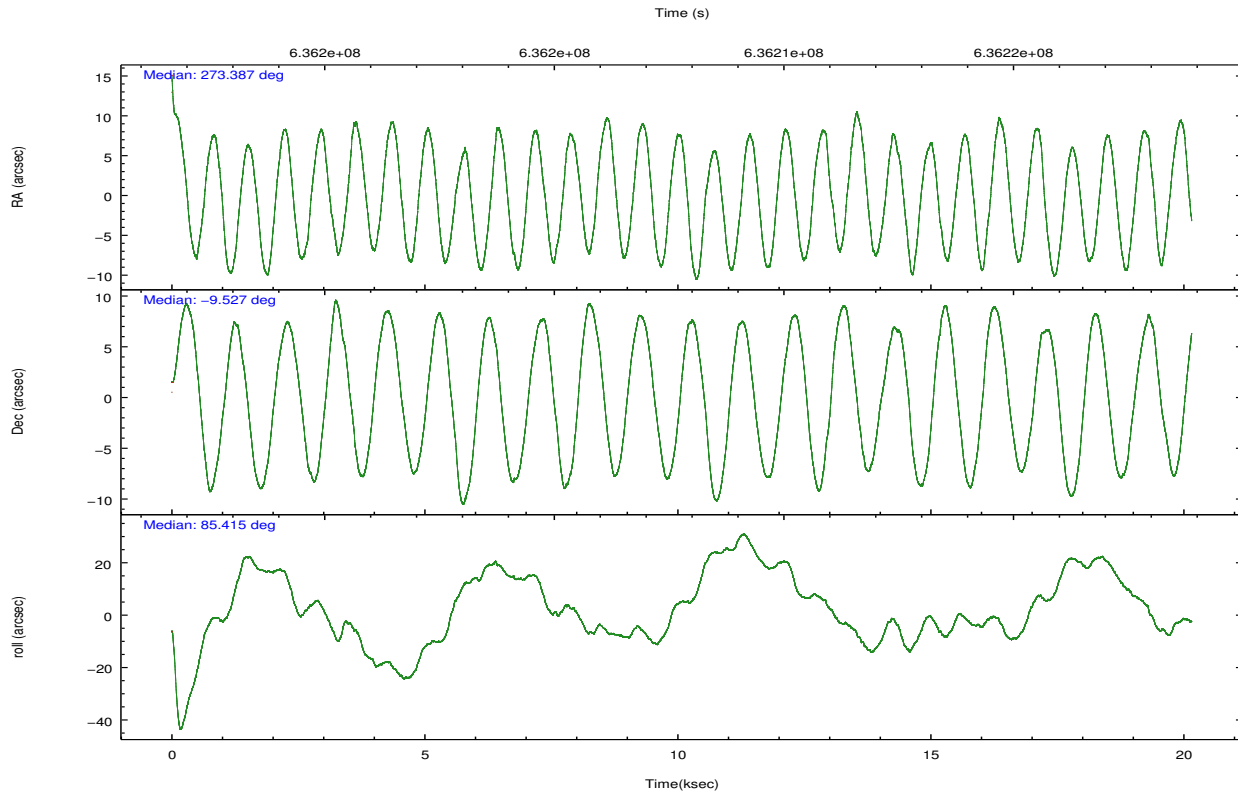
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	34271	3205	82612	14439	2888
	9%	1%	8%	3%	1%
grade 1 events	368	110	3540	270	93
	0%	0%	0%	0%	0%
grade 2 events	43110	18263	209763	22416	10528
	11%	6%	22%	5%	3%
grade 3 events	2916	3108	43563	6960	2802
	0%	1%	4%	1%	1%
grade 4 events	2736	2944	43629	6642	3030
	0%	1%	4%	1%	1%
grade 5 events	12840	7148	34738	10412	7447
	3%	2%	3%	2%	2%
grade 6 events	72496	7981	251665	19481	7624
	19%	3%	26%	4%	2%
grade 7 events	194617	219805	272197	338673	237796
	53%	83%	28%	80%	87%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	273.399221	273.3869733942017	CCD I2 on	N	N
[deg] Pointing Dec	-9.551925	-9.527287720133661	CCD I3 on	N	N
[deg] Pointing Roll	85.269820	85.42445424668435	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	636197863.184000	636196814.88656	CCD S5 on	O1	Y
Observation start date	2018-02-28T09:36:34	2018-02-28T09:20:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636217863.184000	636218475.70033	On-chip summing requested	N	N
Observation end date	2018-02-28T15:09:54	2018-02-28T15:21:15	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

## 2.3 Aspect





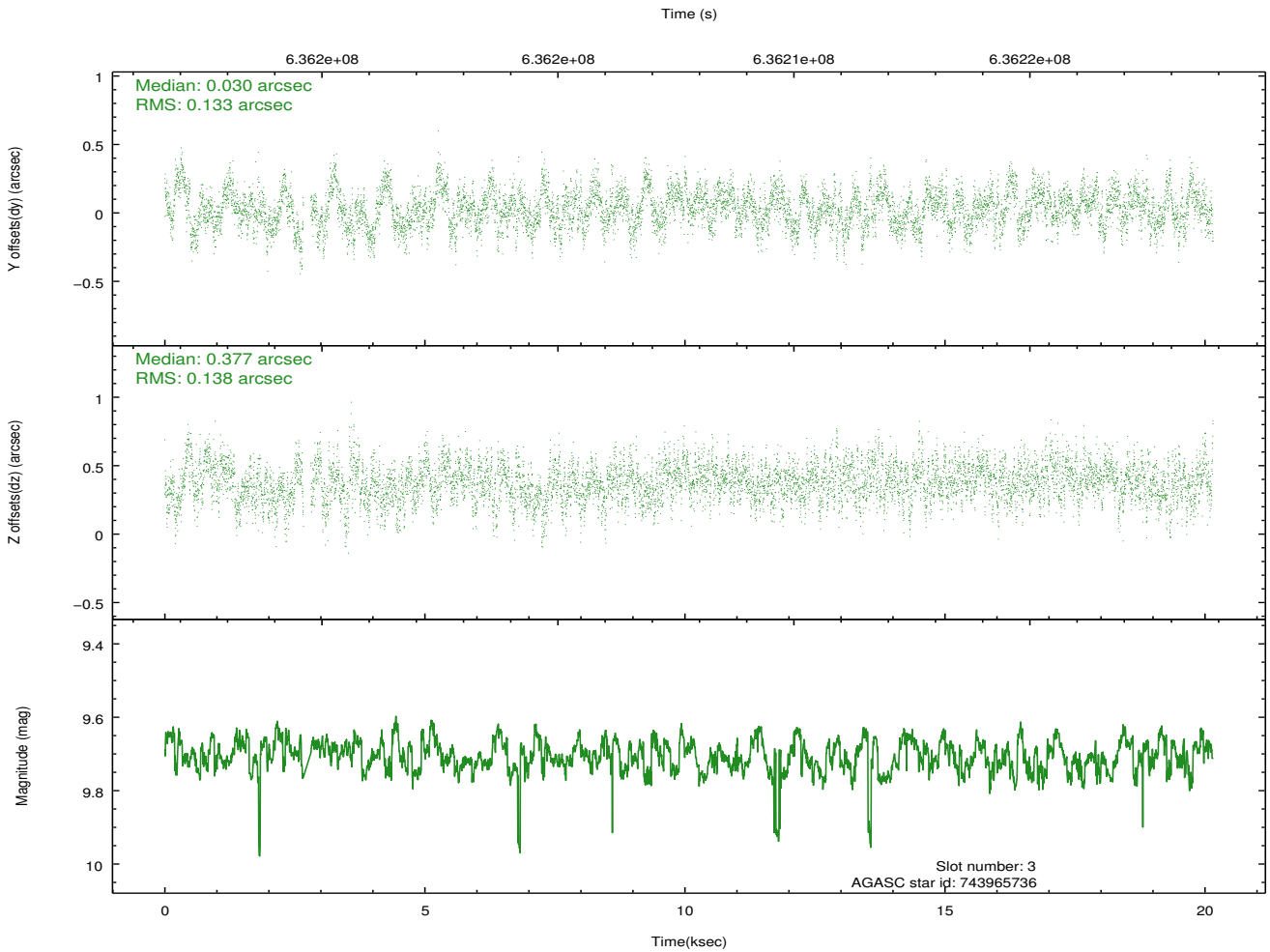
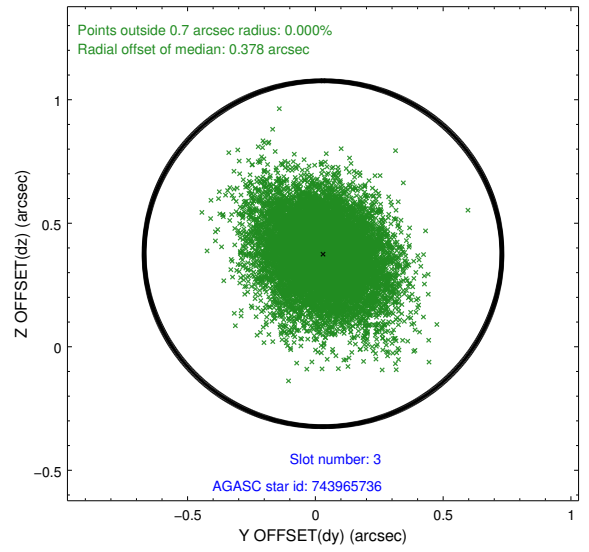
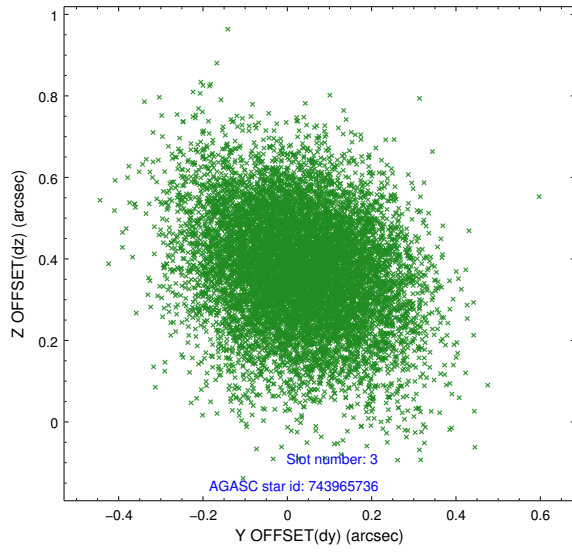
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	4914	-0.257	-0.137	0.046	0.061	0.000000	0.000000	-776.18	-1745.23
1	FID		ACIS-S-4	7.21	4916	0.592	0.160	0.008	0.013	0.000000	0.000000	2137.80	163.43
2	FID		ACIS-S-5	7.23	4916	-0.370	-0.015	0.042	0.057	0.000000	0.000000	-1828.95	157.02
3	GUIDE	used	743965736	9.71	9744	0.030	0.377	0.203	0.331	273.638582	-9.325665	881.96	-779.30
4	GUIDE	used	743965816	9.16	9820	-0.827	-0.696	0.164	0.293	273.189504	-9.019404	1848.25	901.18
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	744492144	8.27	9756	0.309	-0.429	0.168	0.269	272.946055	-9.546827	-115.20	1604.71
7	GUIDE	used	744626112	8.04	9828	0.491	0.749	0.181	0.305	274.063643	-9.809607	-731.52	-2424.99

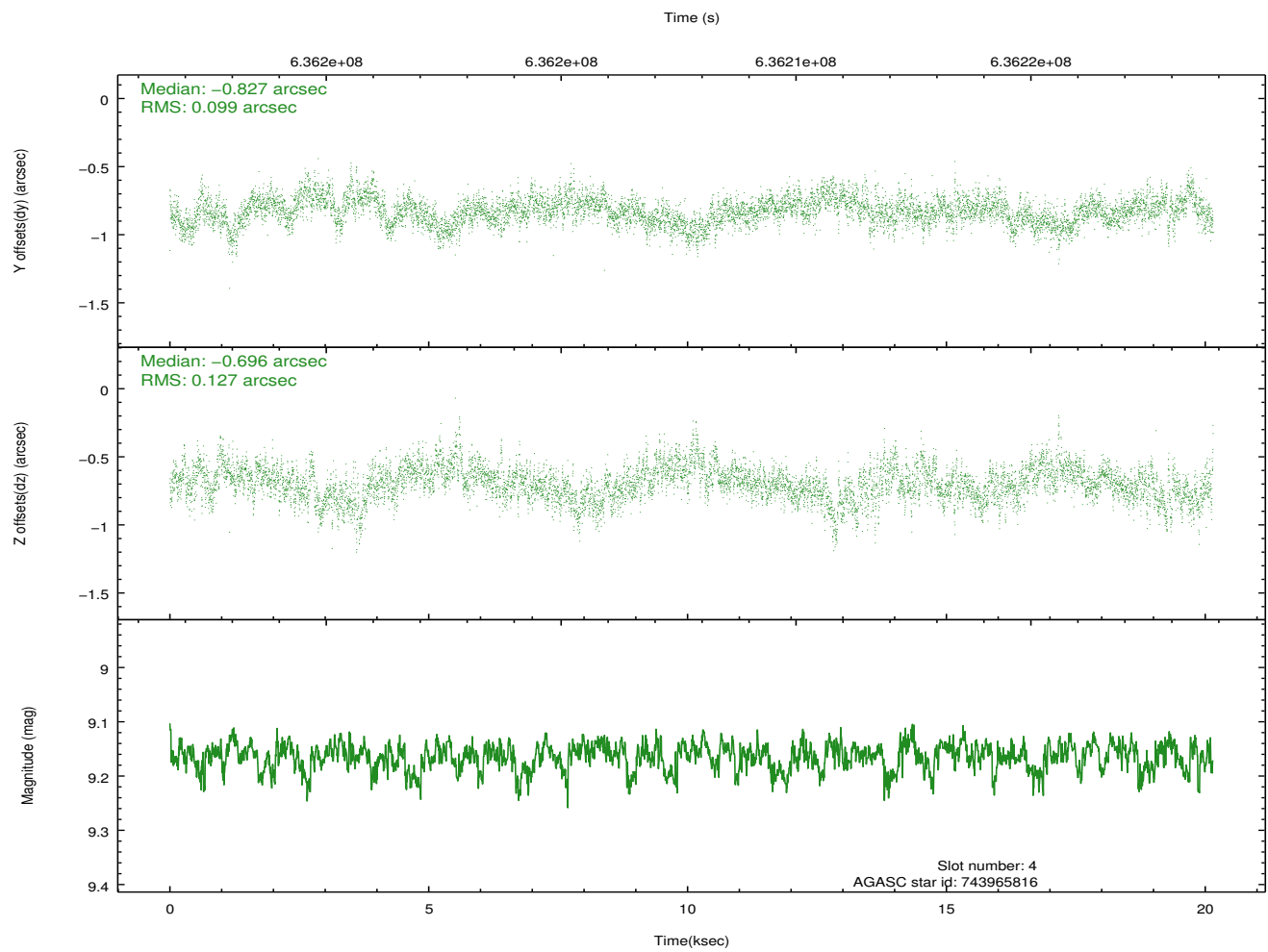
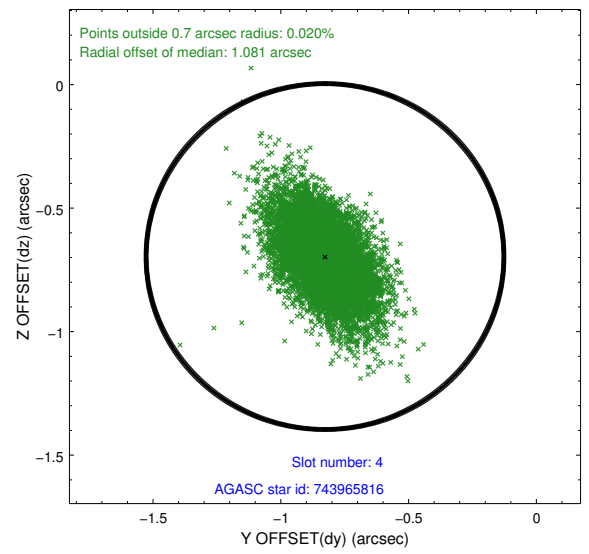
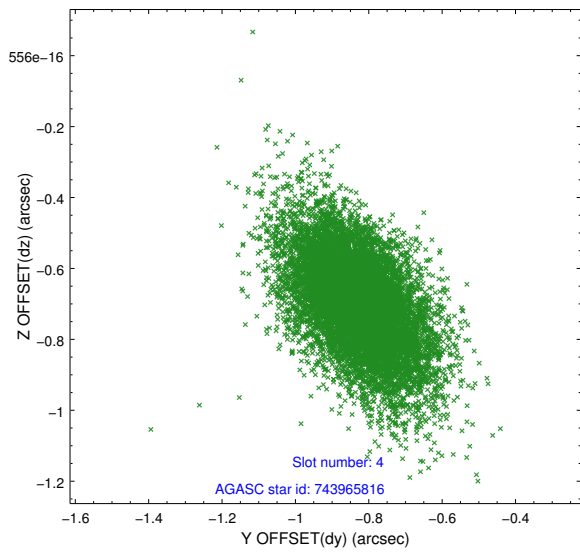
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## 2.4 Star Slots

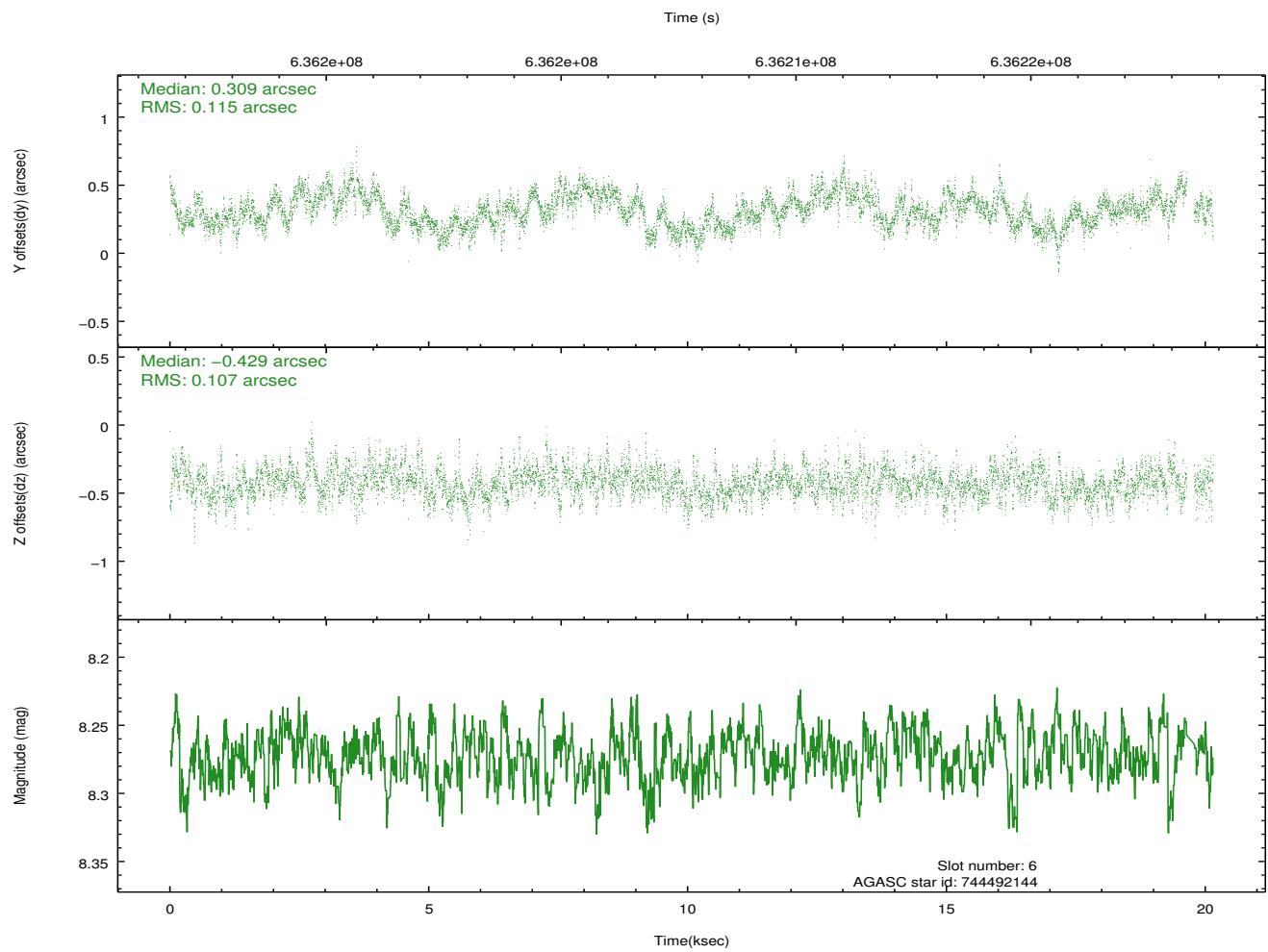
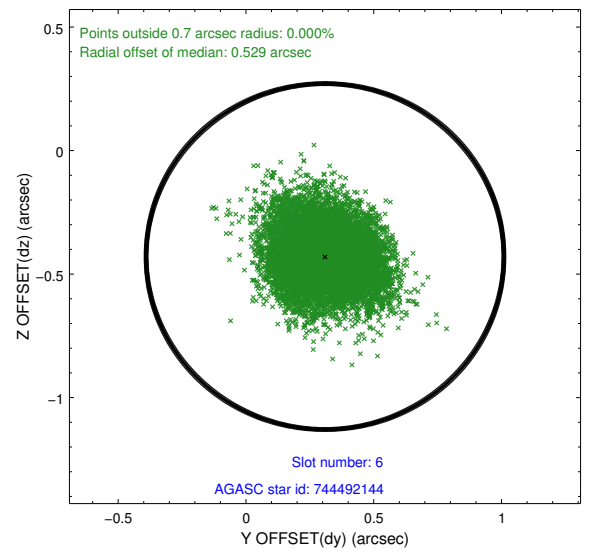
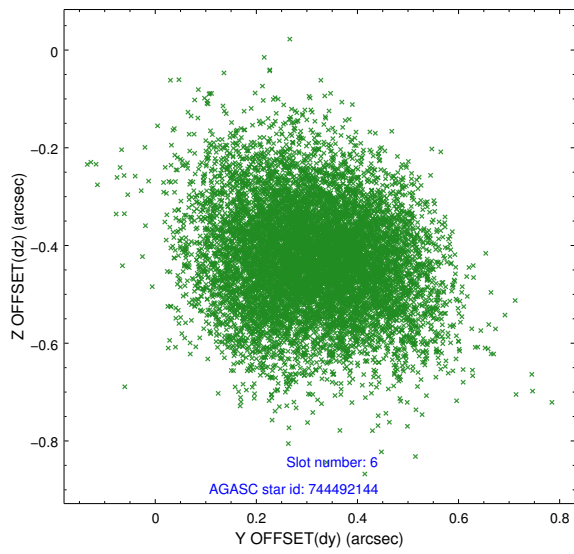
### 2.4.1 Slot 3



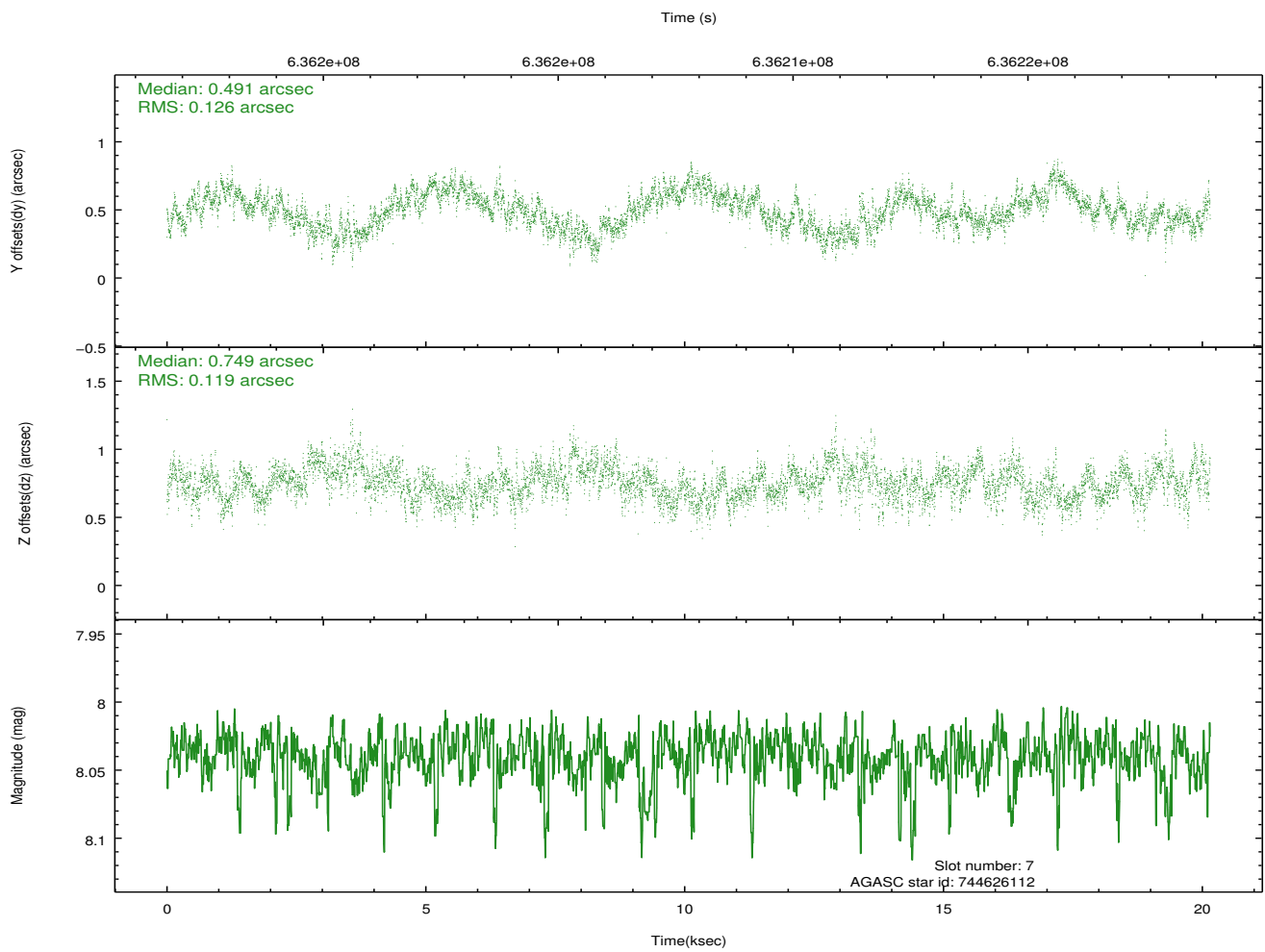
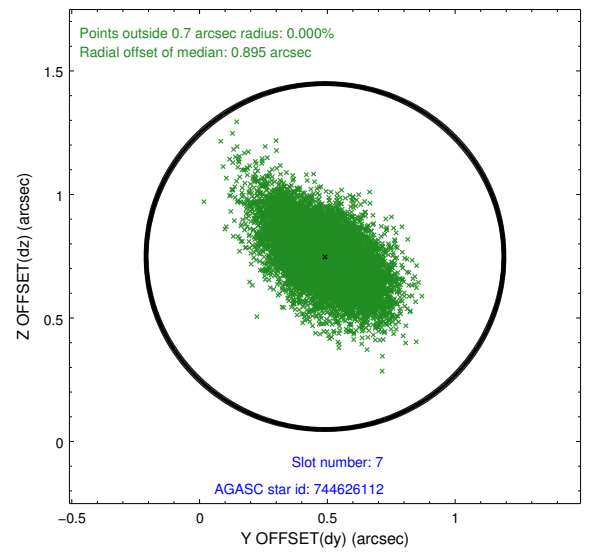
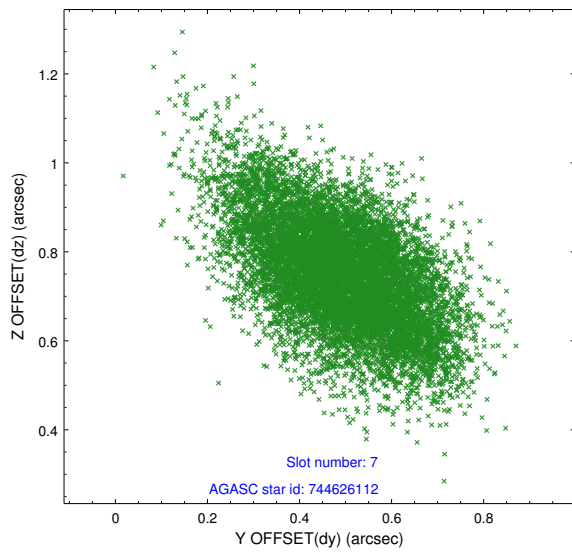
## 2.4.2 Slot 4



### 2.4.3 Slot 6

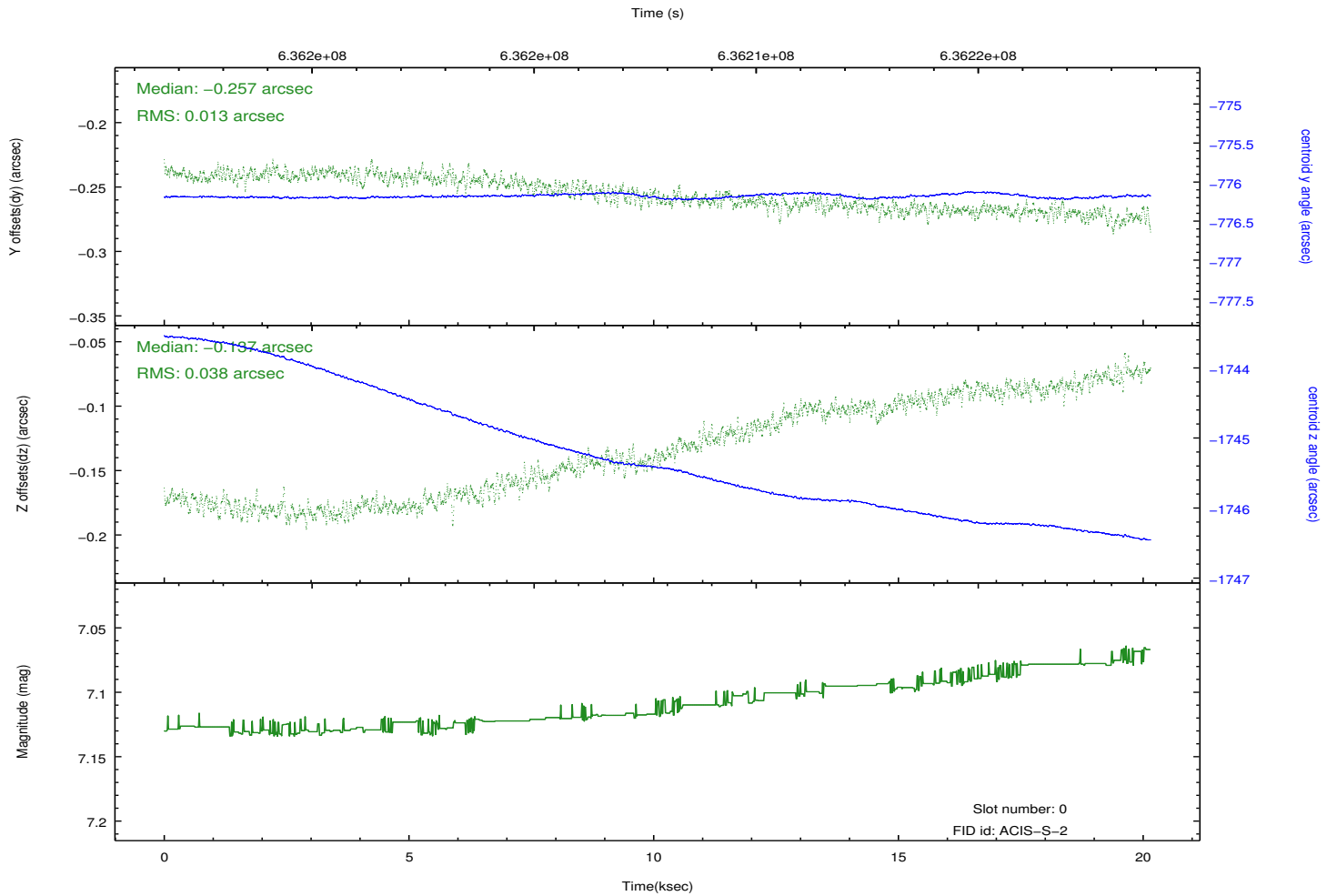
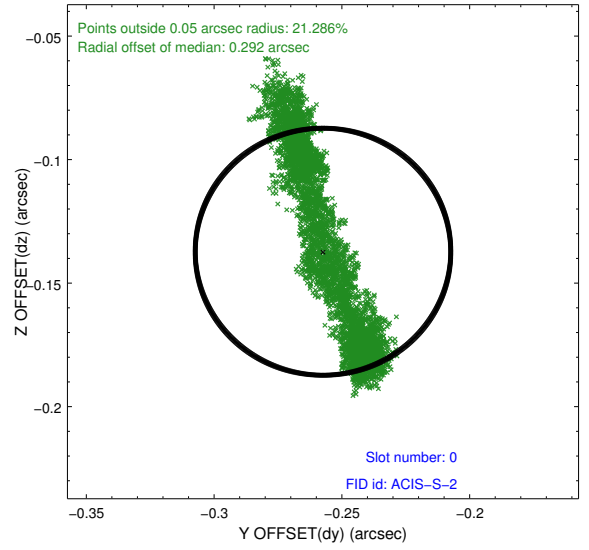
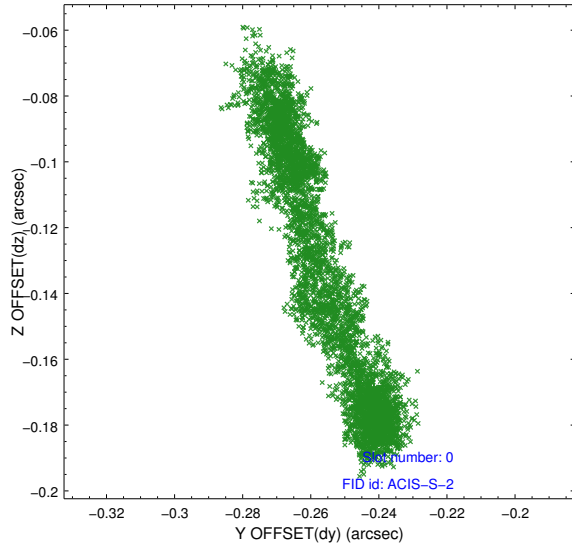


## 2.4.4 Slot 7

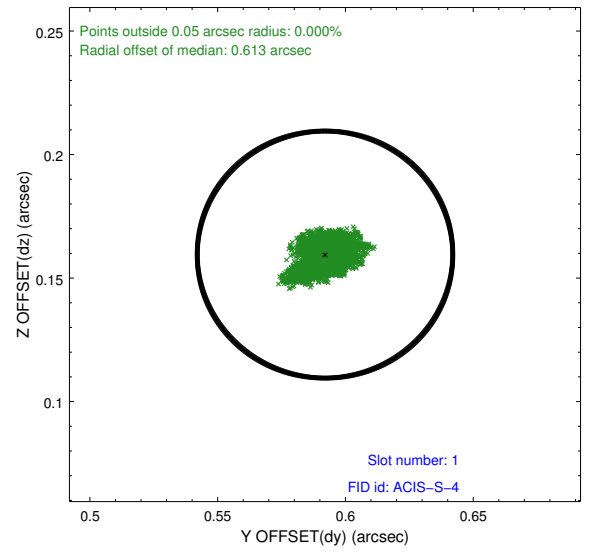
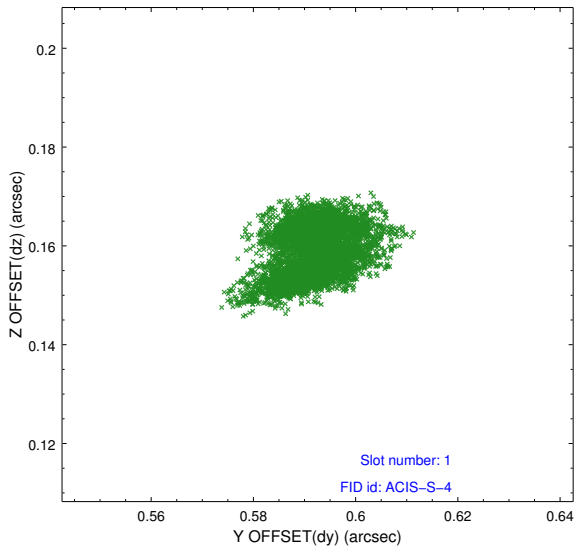


## 2.5 FID Slots

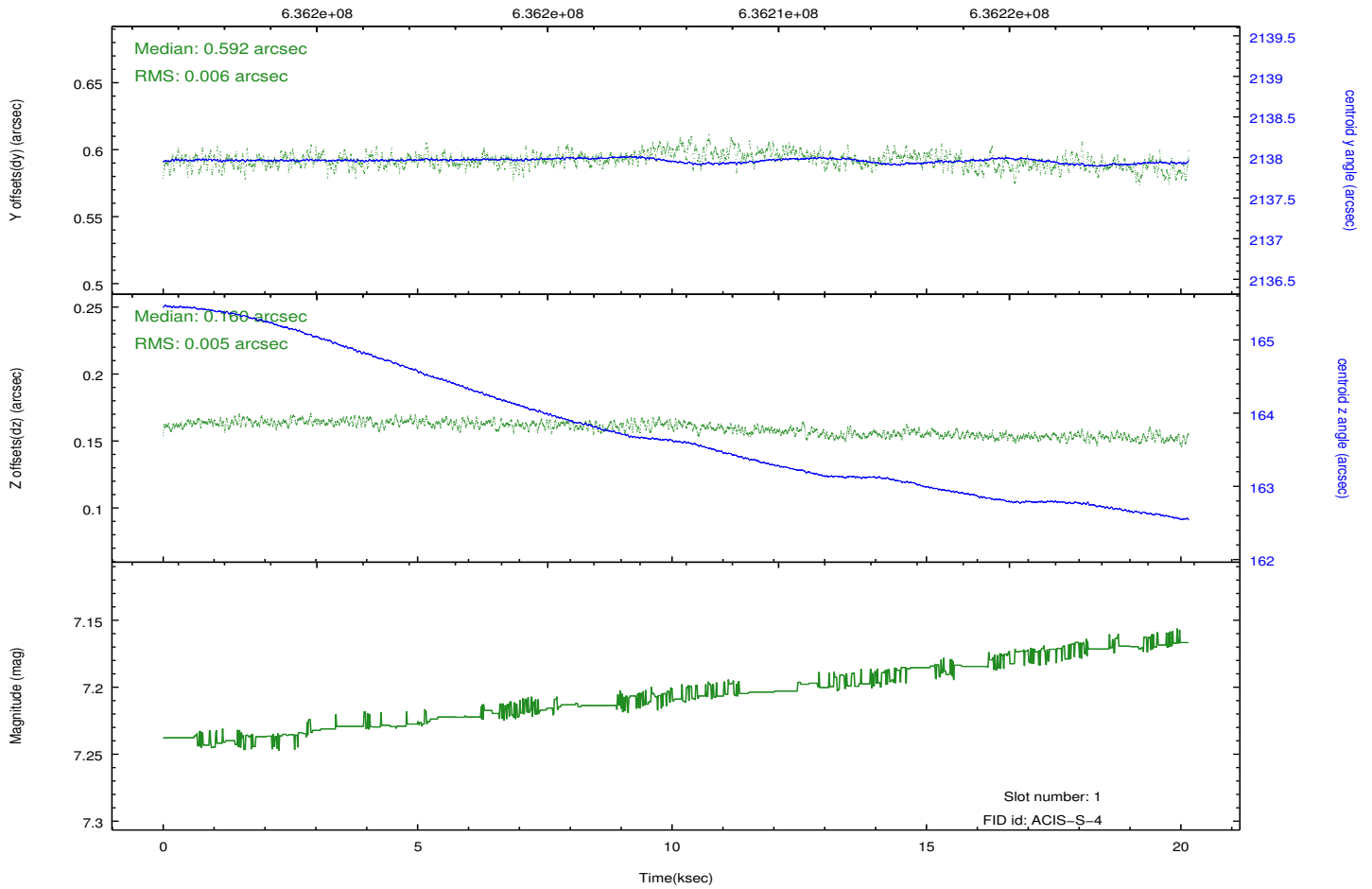
### 2.5.1 Slot 0



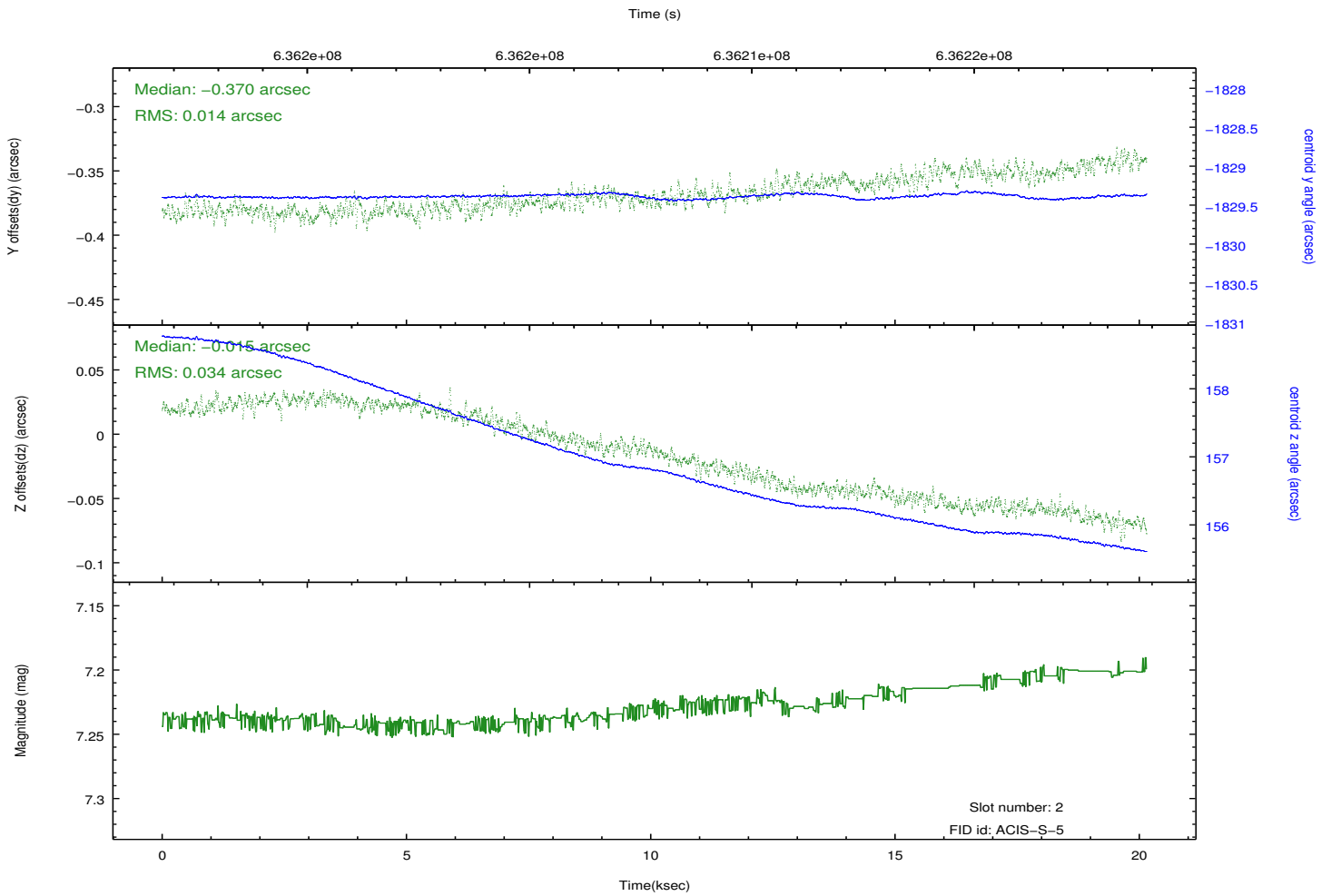
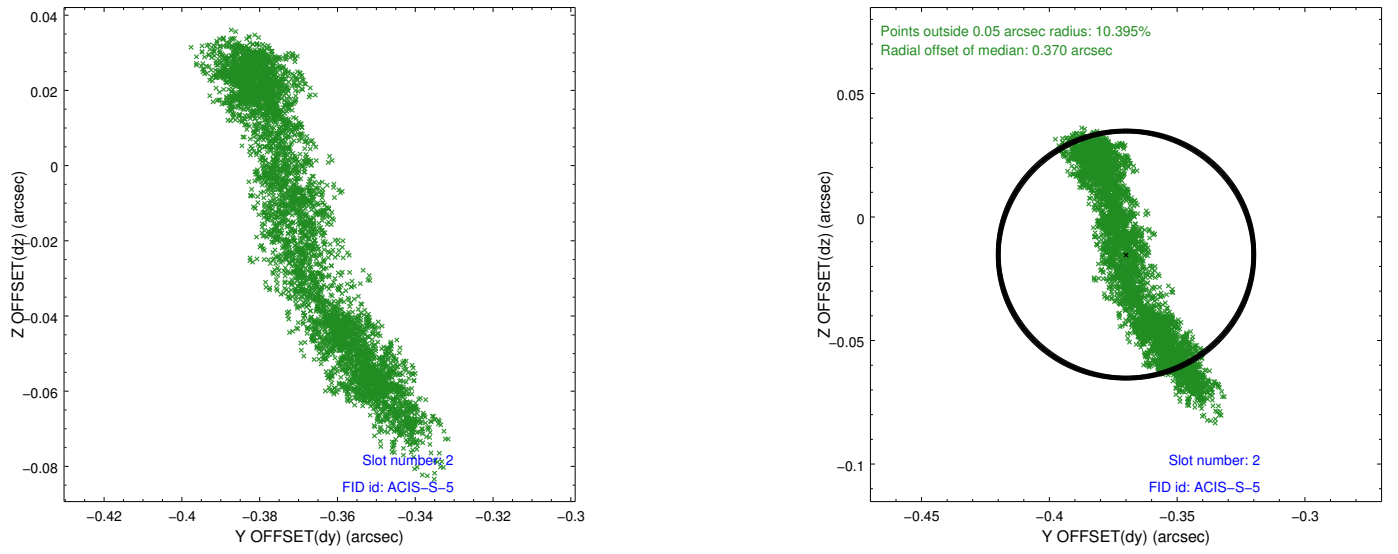
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.10325

## A.2 Comments

Comments for Obi 0

Fid in slot 1 radial offset > 0.550000 arcsec

(This is acceptable, as per aspect review.)