

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21455 - L2 Version 1
Chandra X-Ray Center

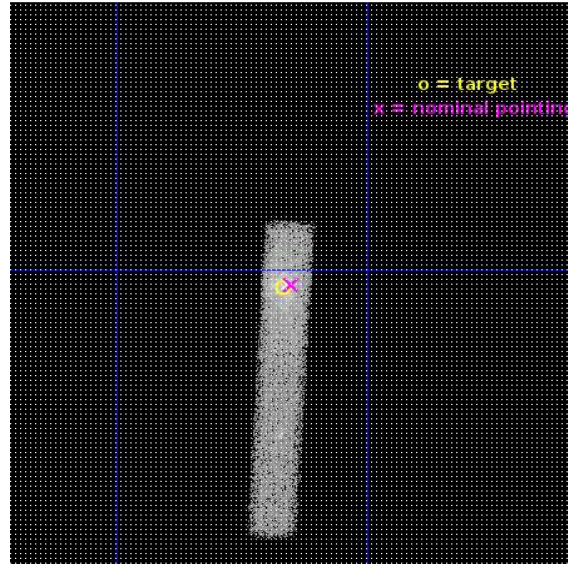
L2 Processing Date : Apr 1 2019

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1 Front

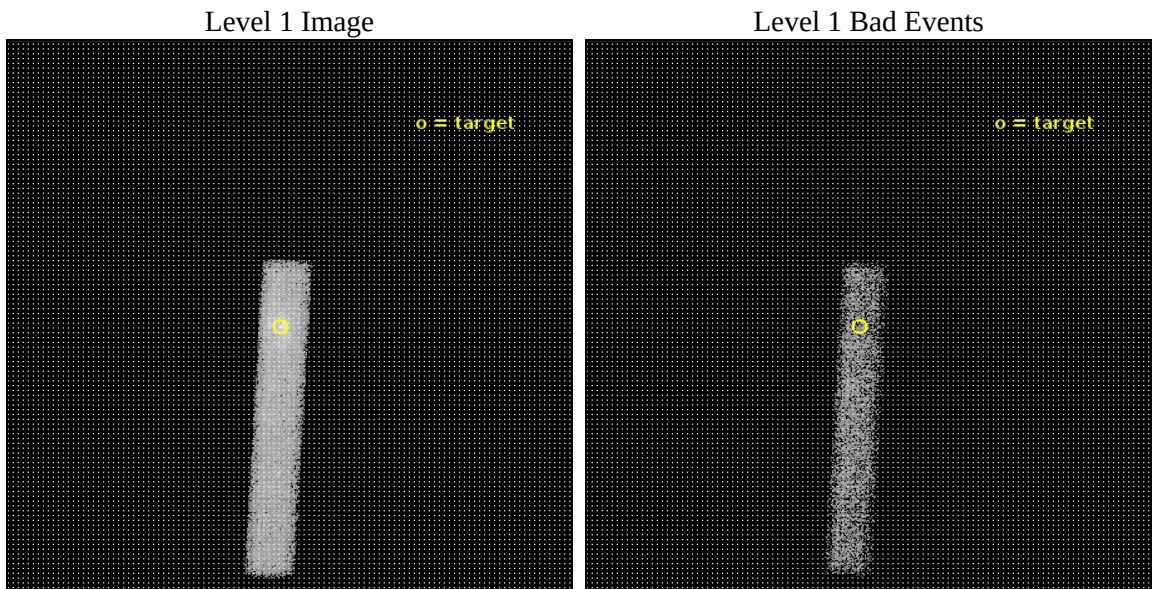
seq_num	703752	Sequence number
obs_id	21455	Observation id
title	Event Horizon Dynamics: Joint Chandra/EHT Imaging of Sgr A* and M87	
observer	Daryl Haggard	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.4128508891	Nominal RA [deg]
dec_nom	-29.006712590693	Nominal Dec [deg]
roll_nom	93.154782375458	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33069.471774936	Sum of GTIs [s]
livetime	29992.265350023	Livetime [s]
ontime7	33069.471774936	Sum of GTIs [s]
l2events	34667	Number of level 2 events



2 OBI

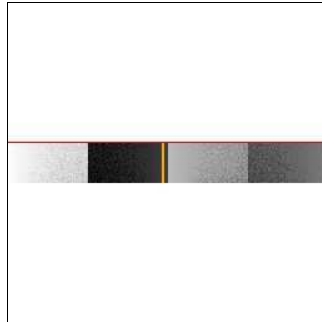
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	33069.471774936	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	33069.471774936	Sum of GTIs [s]
date	2019-04-01T11:30:35	Date and time of file creation	l1events	58003	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

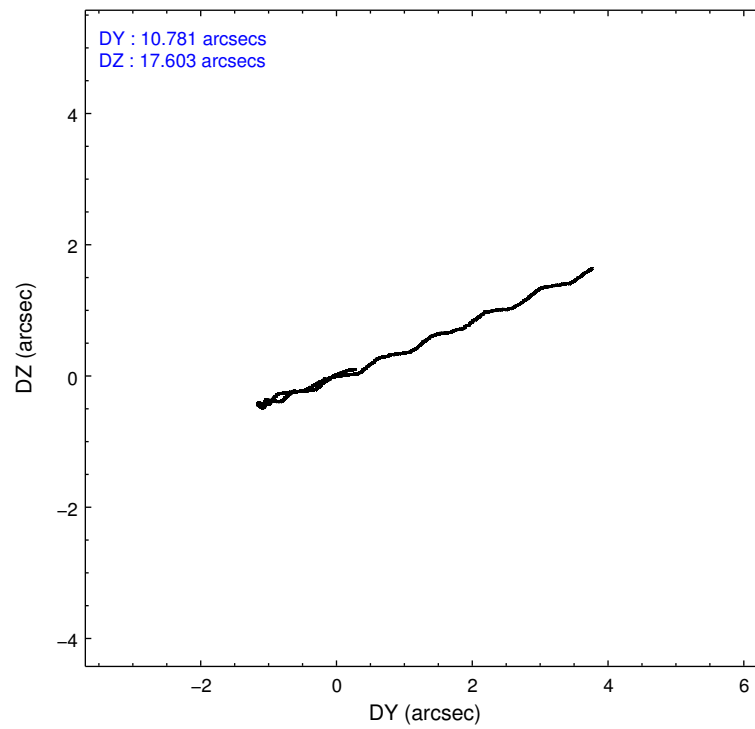
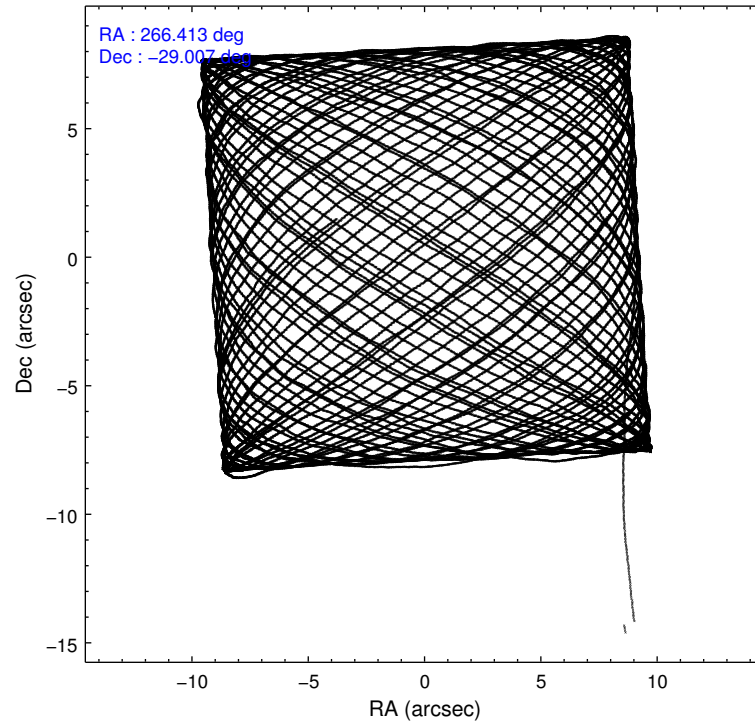
	ccd 7
level 1 events	58003
rejected events	22284
rejected %	38%

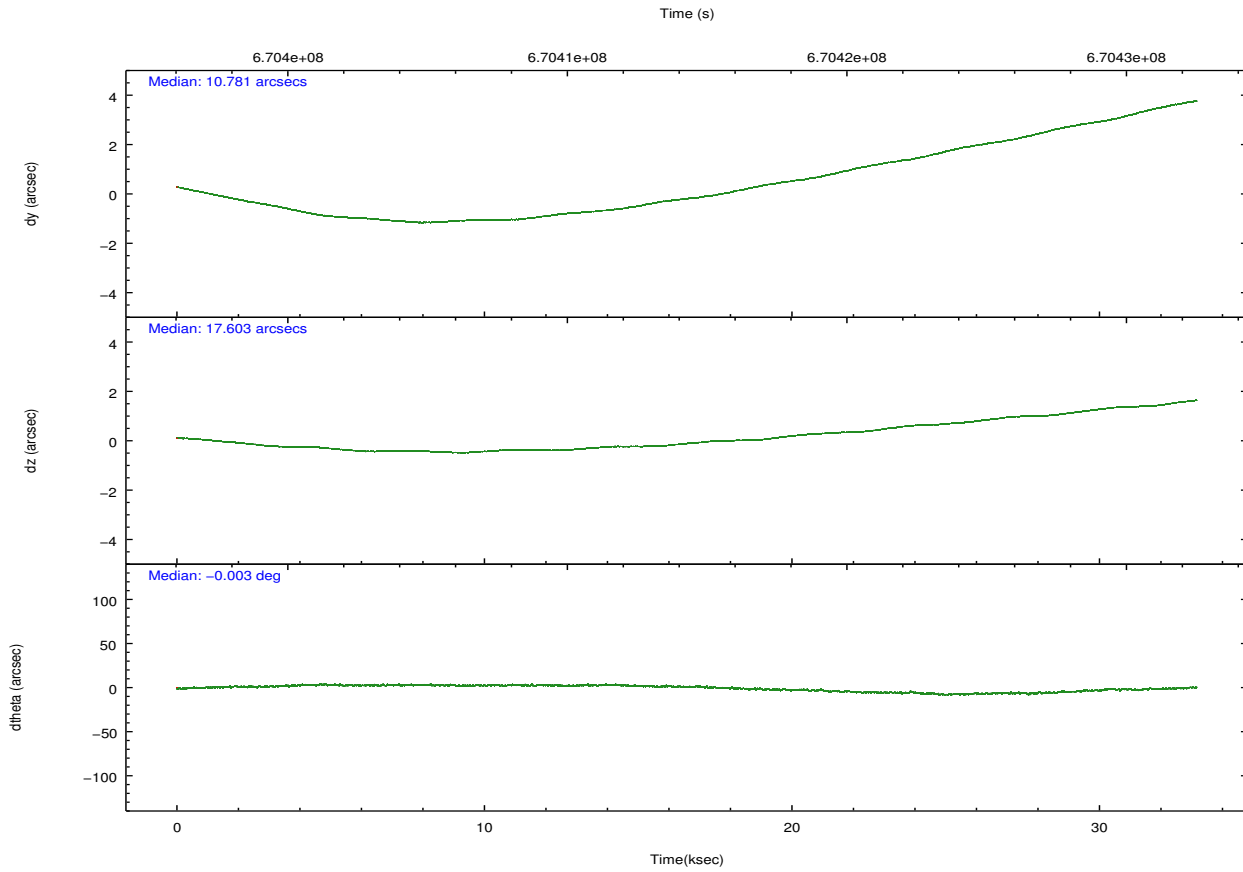
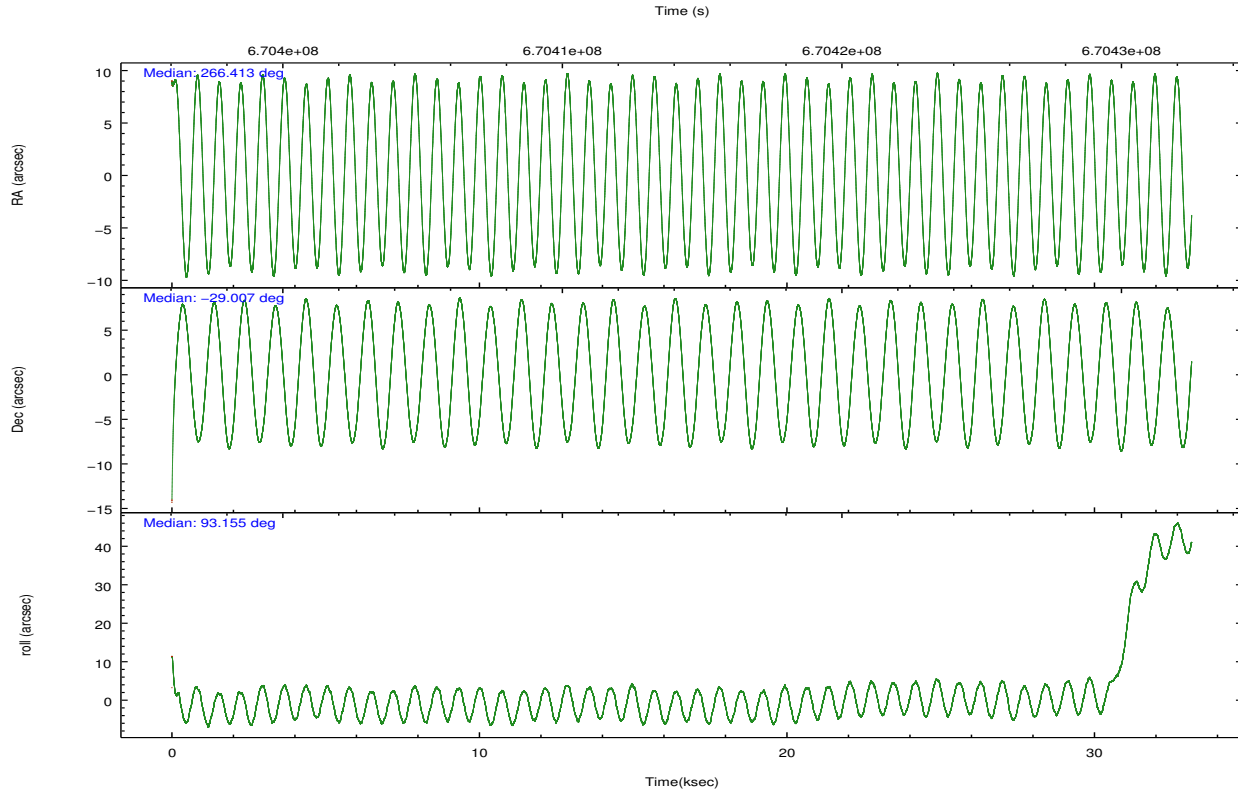
	ccd 7
grade 0 events	5014
	8%
grade 1 events	85
	0%
grade 2 events	7665
	13%
grade 3 events	4286
	7%
grade 4 events	4157
	7%
grade 5 events	4462
	7%
grade 6 events	14599
	25%
grade 7 events	17735
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	266.430358	266.4128508890988	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.029483	-29.00671259069268	Subarray start row	449	449
[deg] Pointing Roll	93.006644	93.15478237545756	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	670397849.184000	670396811.19779			
Observation start date	2019-03-31T05:36:20	2019-03-31T05:20:11			
[s] Observation end time (MET)	670430849.184000	670432086.0624			
Observation end date	2019-03-31T14:46:20	2019-03-31T15:08:06			
Read mode	TIMED	TIMED			

2.3 Aspect



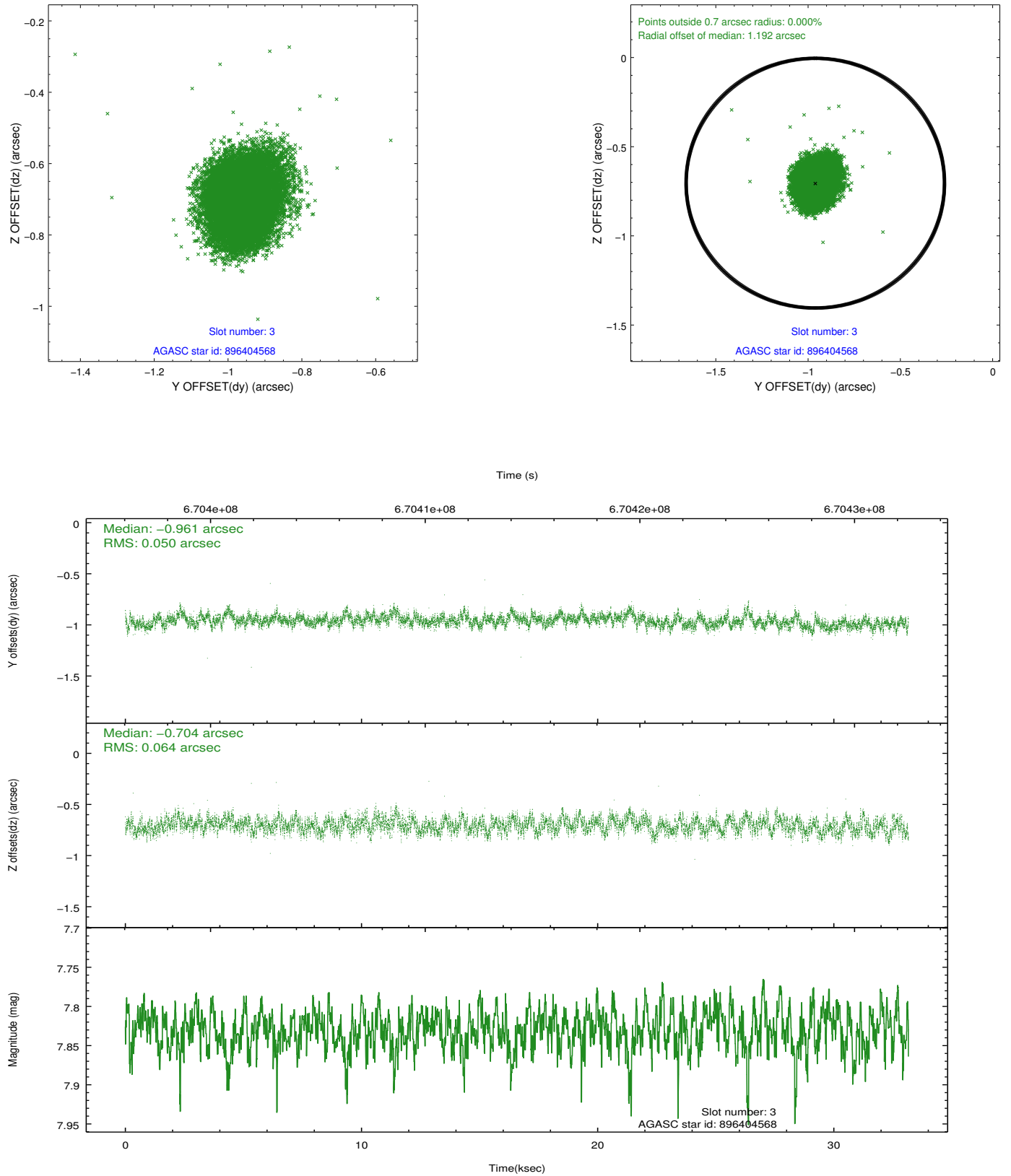


Slot Statistics

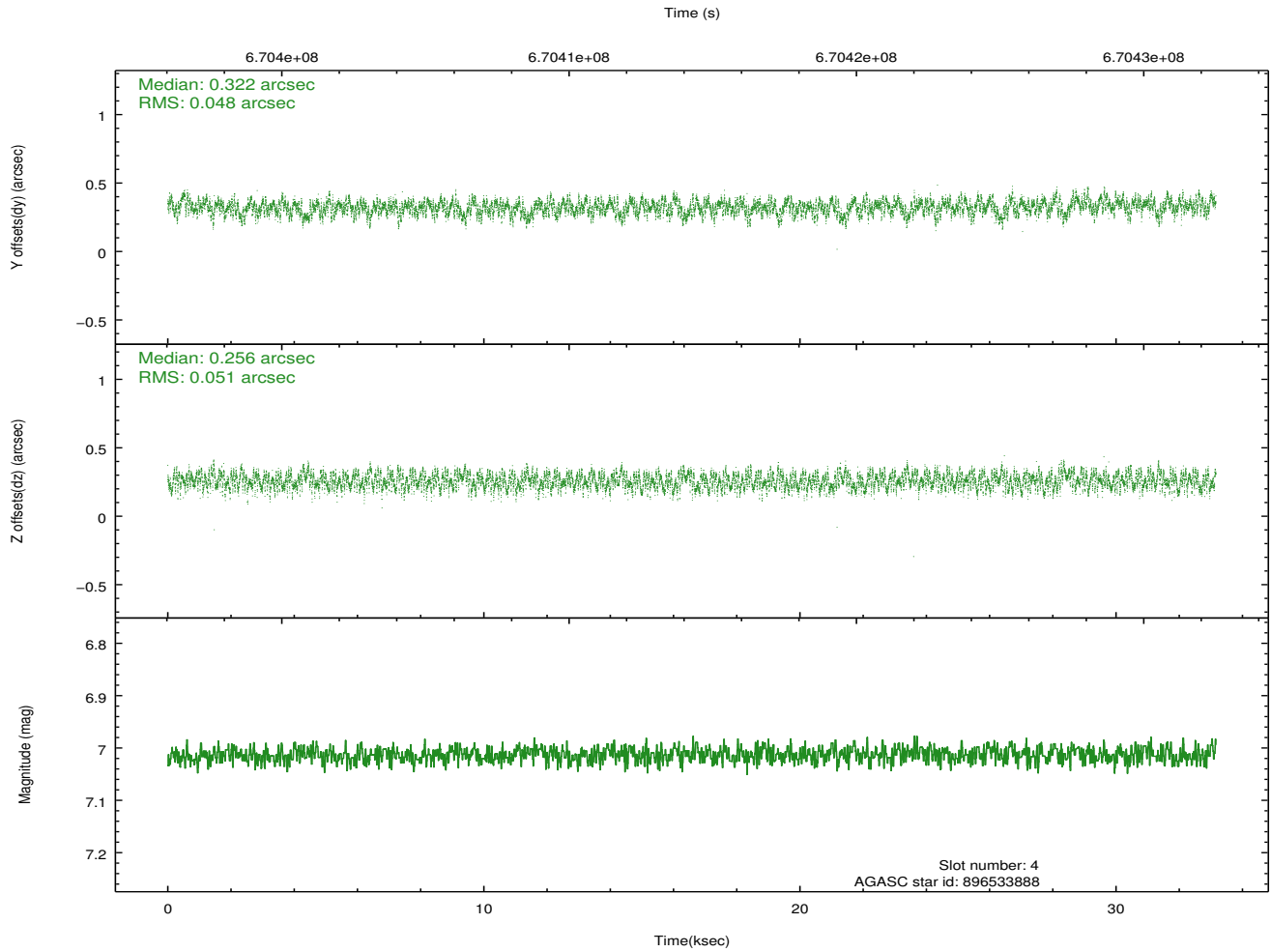
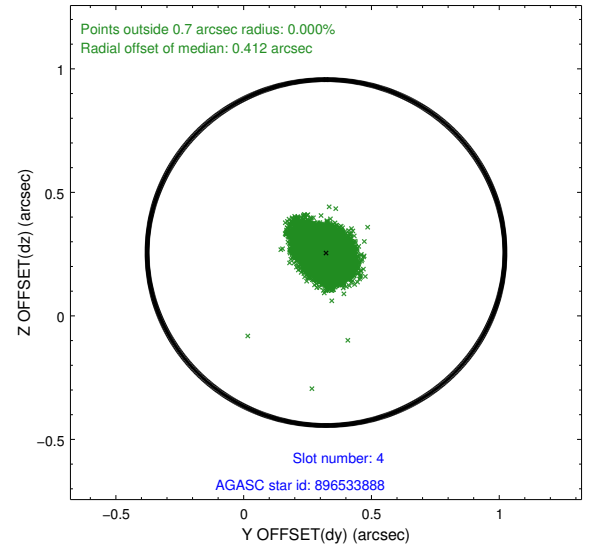
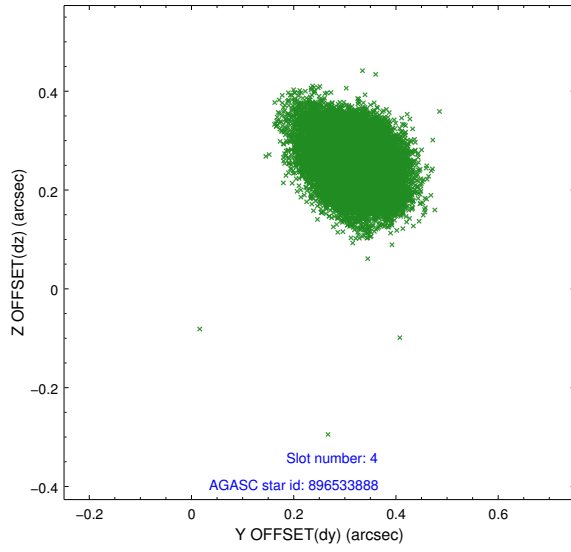
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.10	8089	1.000	0.197	0.078	0.017	0.042	0.000000	0.000000	932.03	-1734
1	FID		ACIS-S-2	7.00	8089	1.000	-0.296	-0.158	0.014	0.062	0.000000	0.000000	-764.35	-1739
2	FID		ACIS-S-6	7.25	8087	1.000	0.080	0.087	0.011	0.021	0.000000	0.000000	397.63	806
3	GUIDE	used	896404568	7.83	16174	1.000	-0.961	-0.704	0.087	0.139	265.687293	-28.431080	2266.72	2236
4	GUIDE	used	896533888	7.01	16177	1.000	0.322	0.256	0.075	0.118	266.666434	-29.392757	-1345.07	-670
5	GUIDE	used	896537176	8.00	16173	1.000	-0.118	0.011	0.089	0.142	266.498272	-28.678259	1251.11	-280
6	GUIDE	used	896537776	7.50	16169	1.000	0.406	0.270	0.067	0.109	266.655684	-29.665673	-2324.08	-583
7	GUIDE	used	896541360	7.69	16173	1.000	0.350	0.167	0.087	0.139	266.684478	-29.453744	-1567.45	-714

2.4 Star Slots

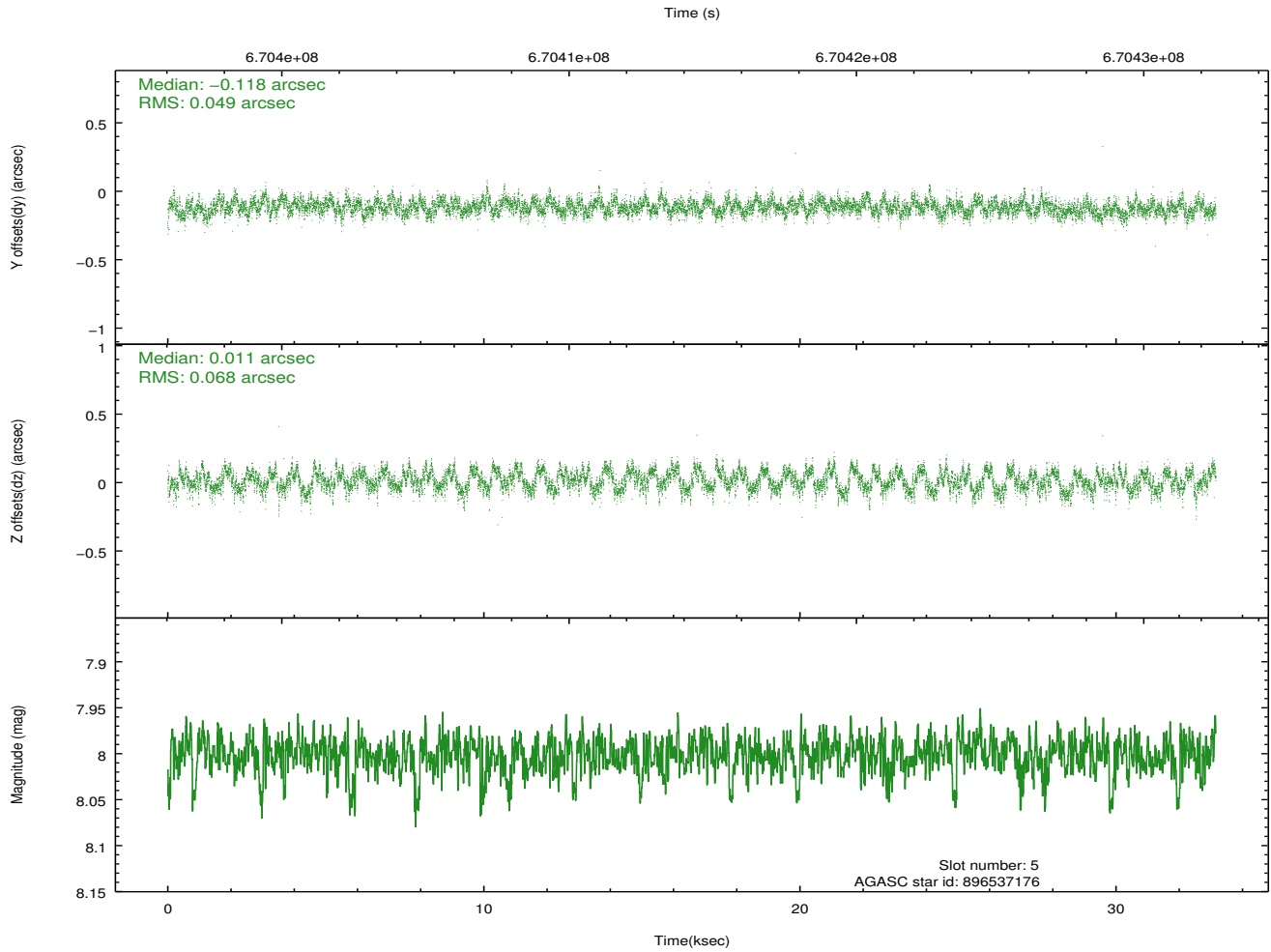
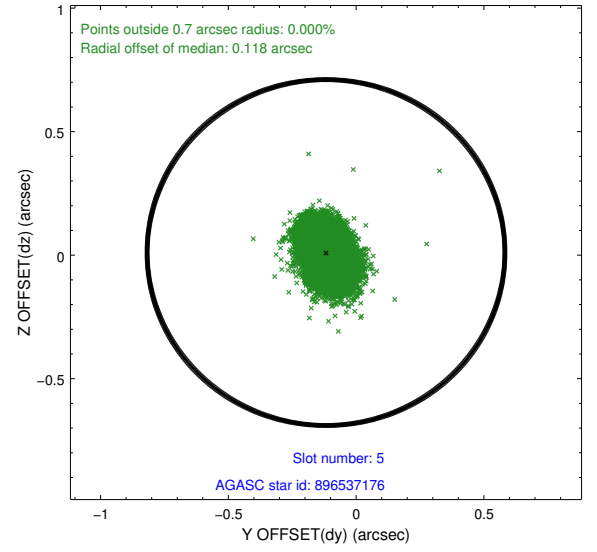
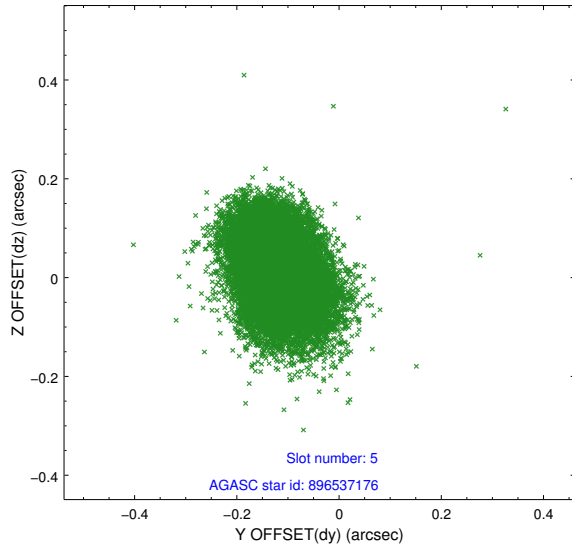
2.4.1 Slot 3



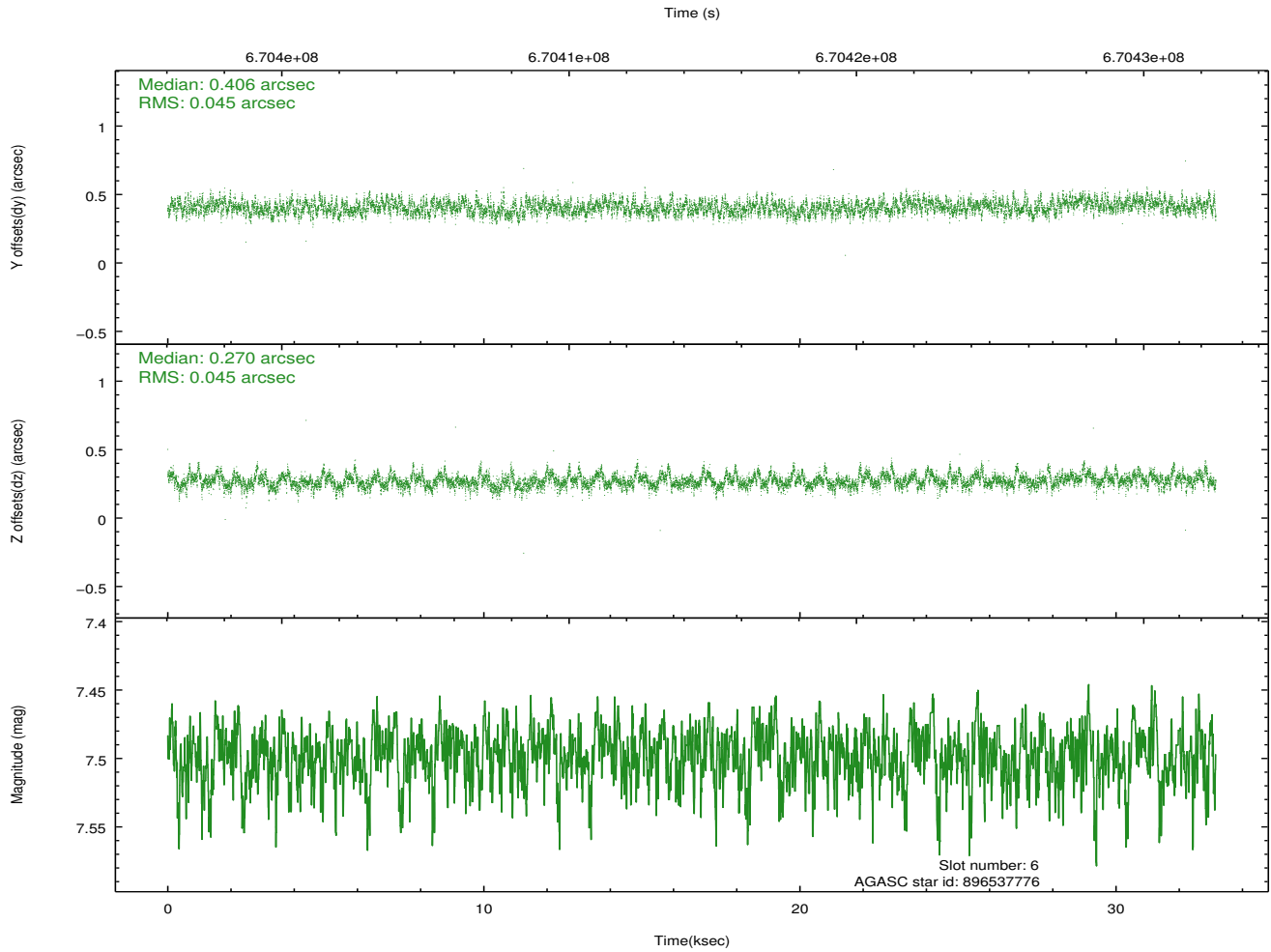
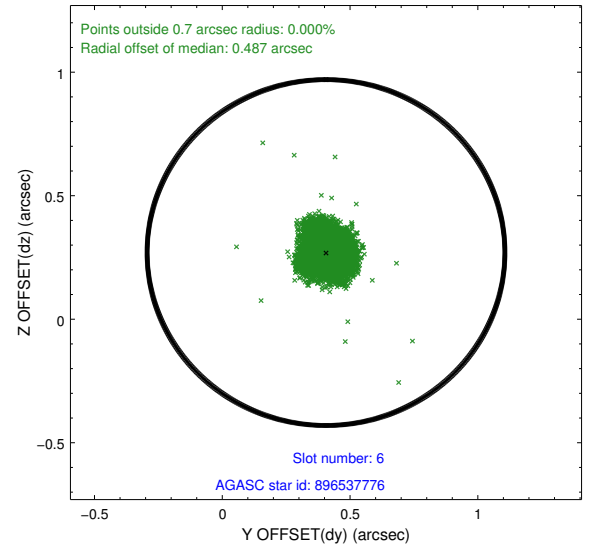
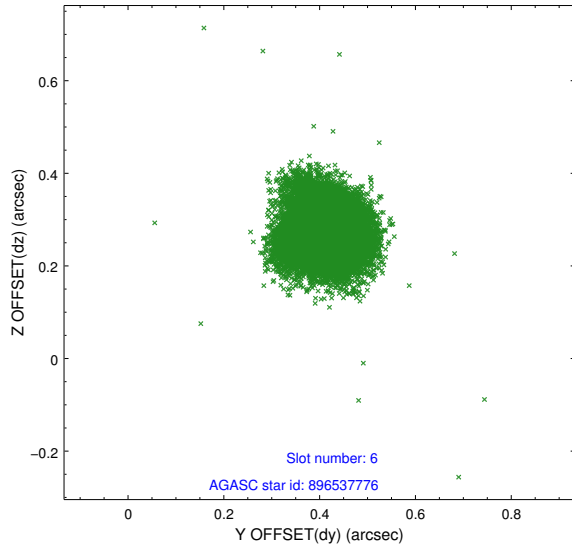
2.4.2 Slot 4



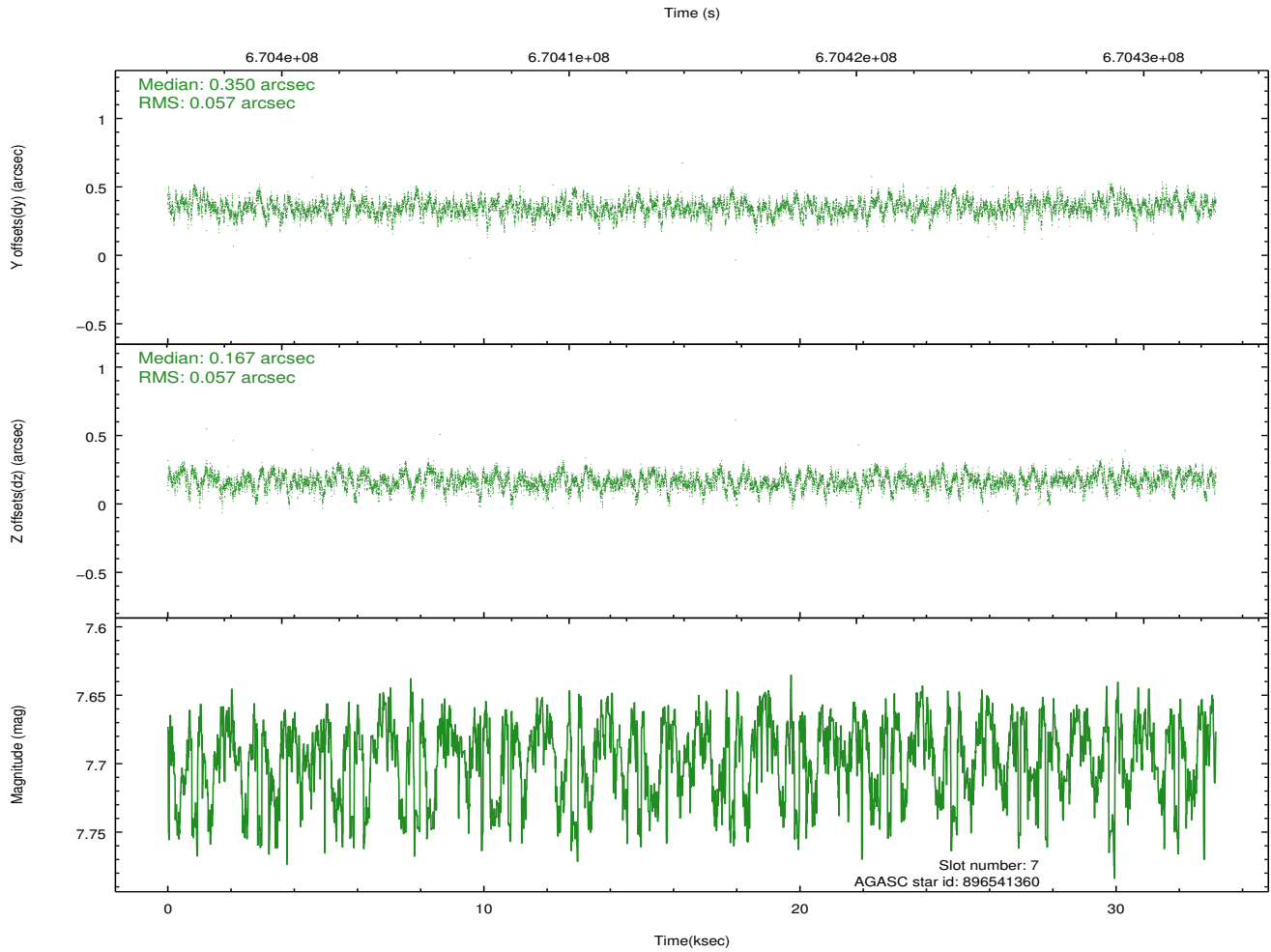
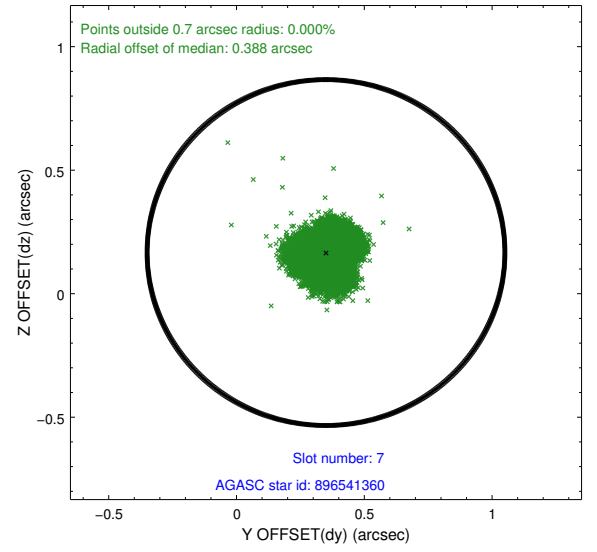
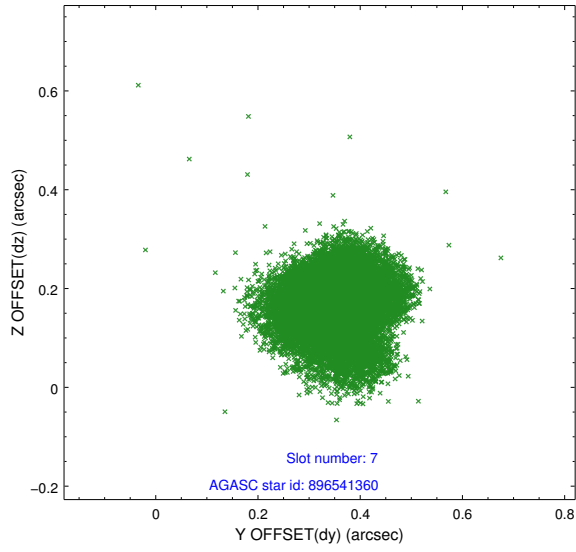
2.4.3 Slot 5



2.4.4 Slot 6

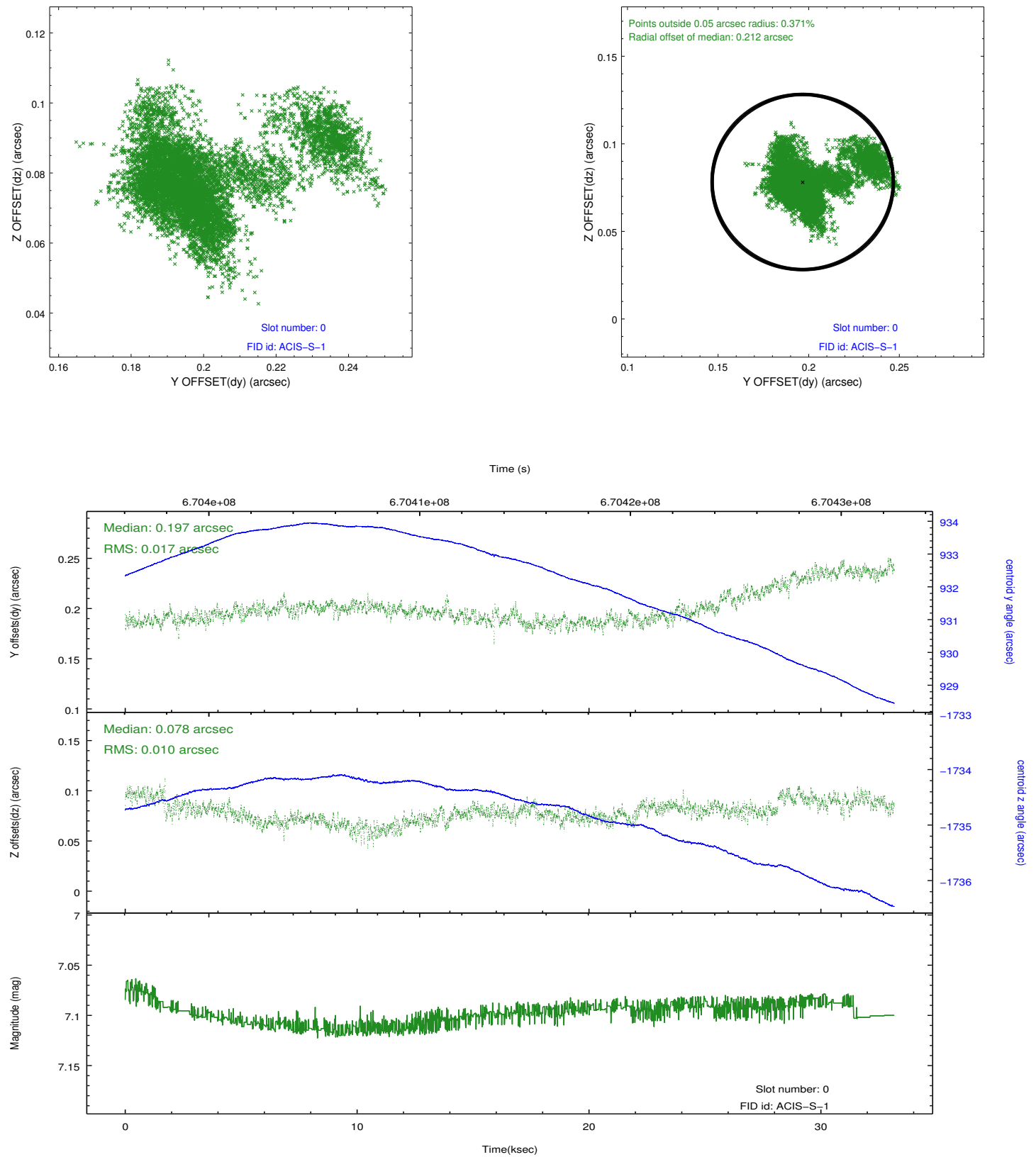


2.4.5 Slot 7

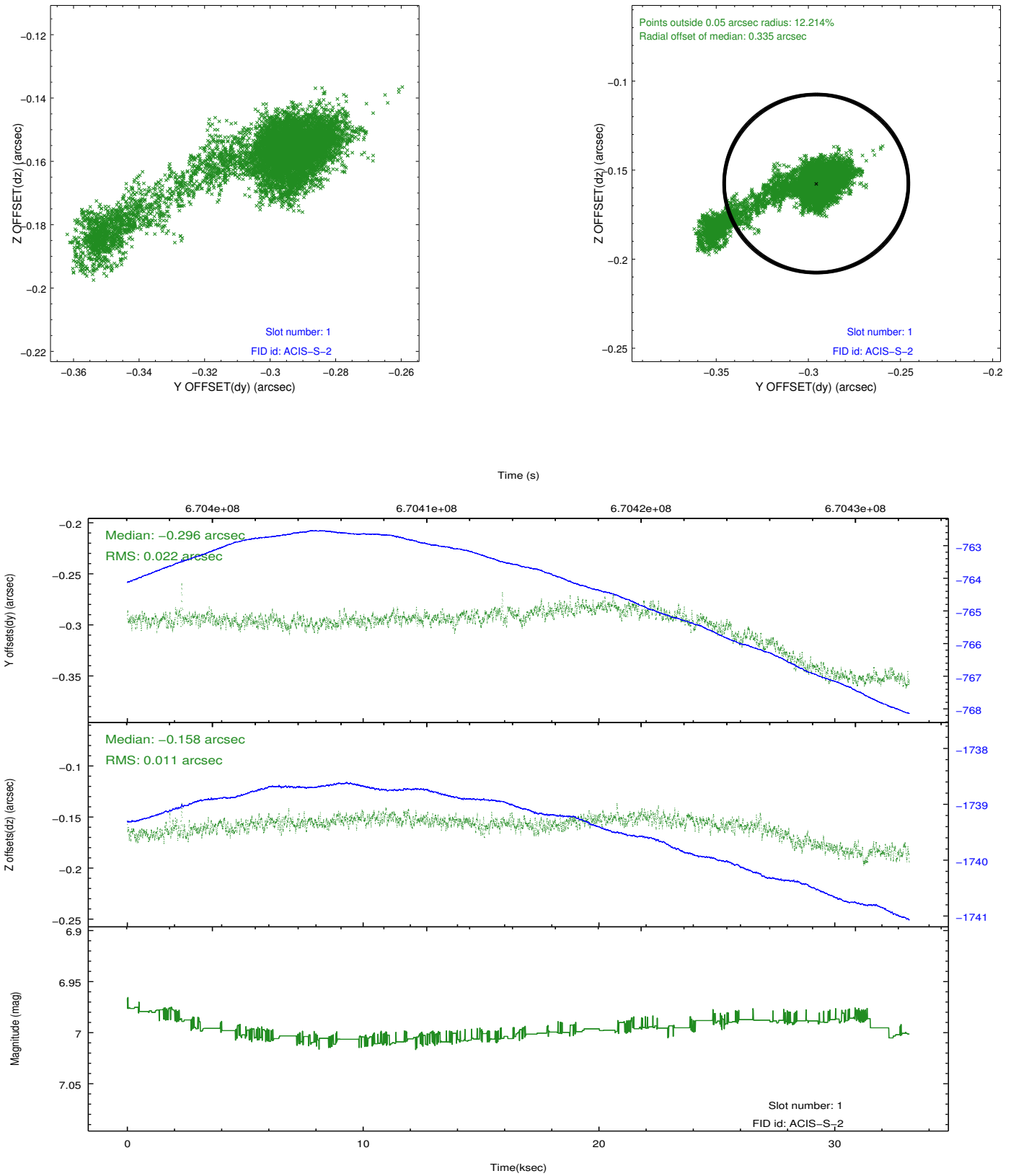


2.5 FID Slots

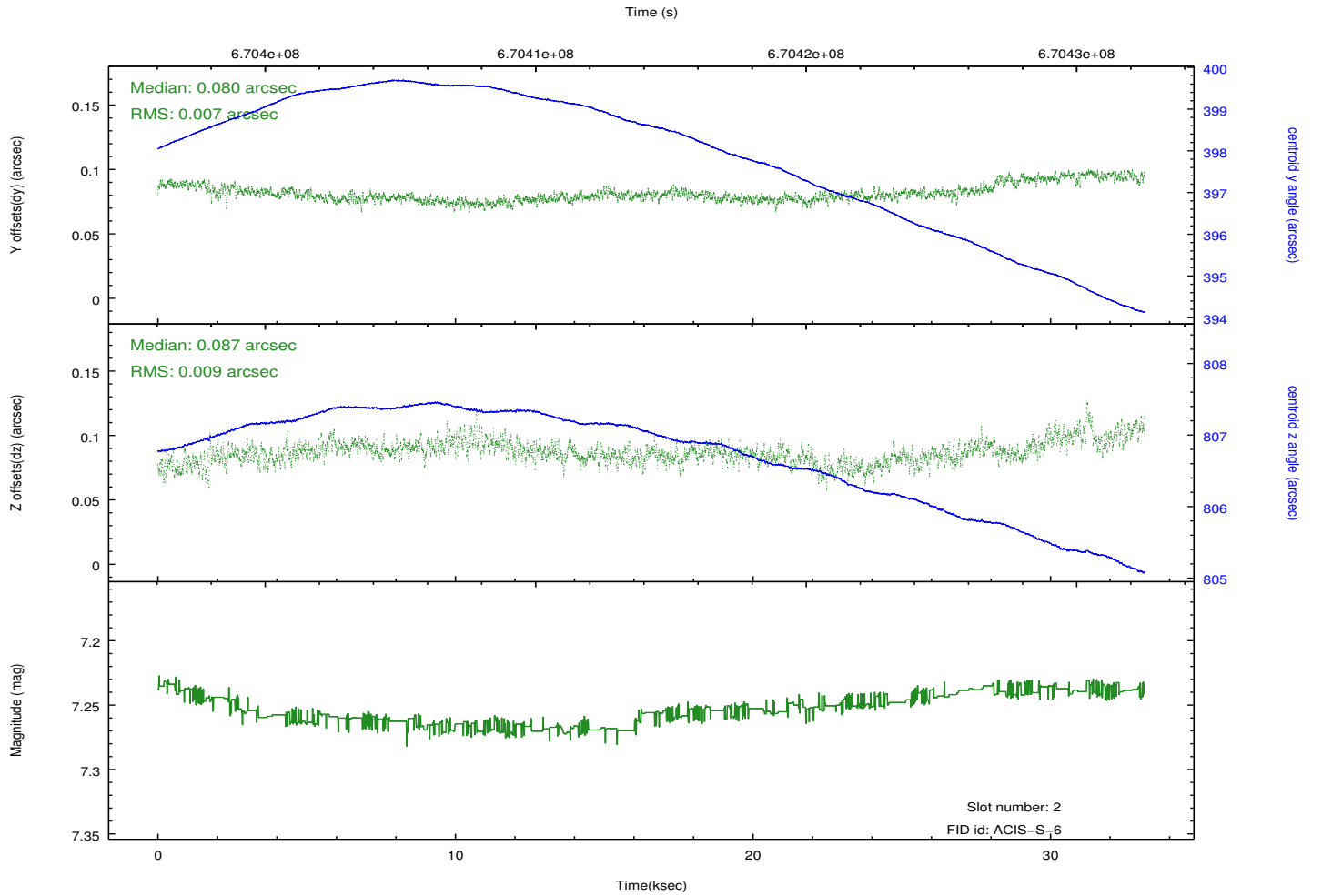
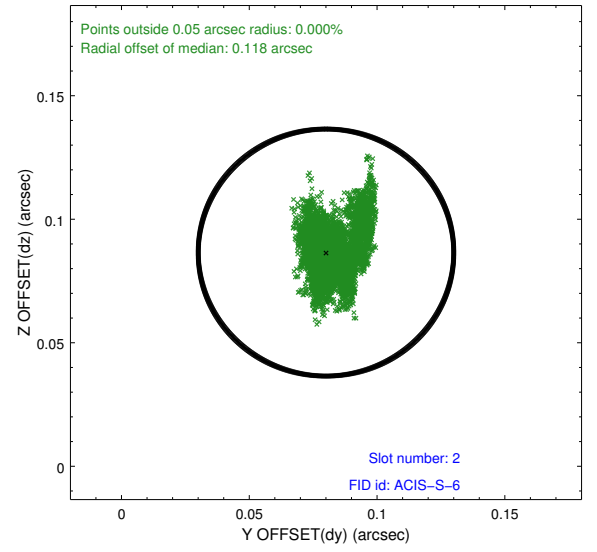
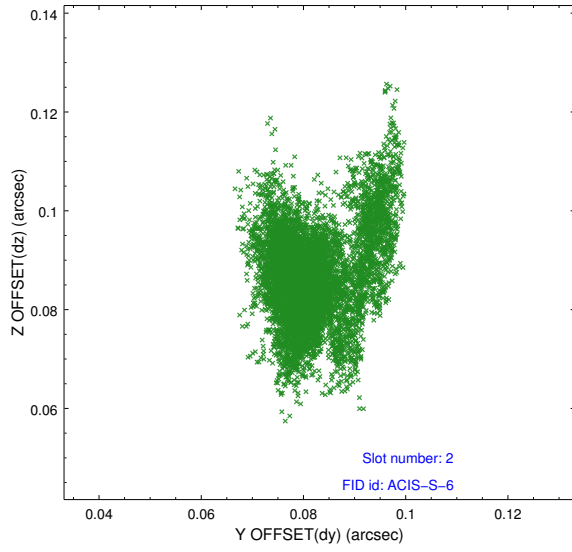
2.5.1 Slot 0



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)	2019.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.069471774936

A.2 Comments

Monitor constraint met.