

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21454 - L2 Version 1
Chandra X-Ray Center

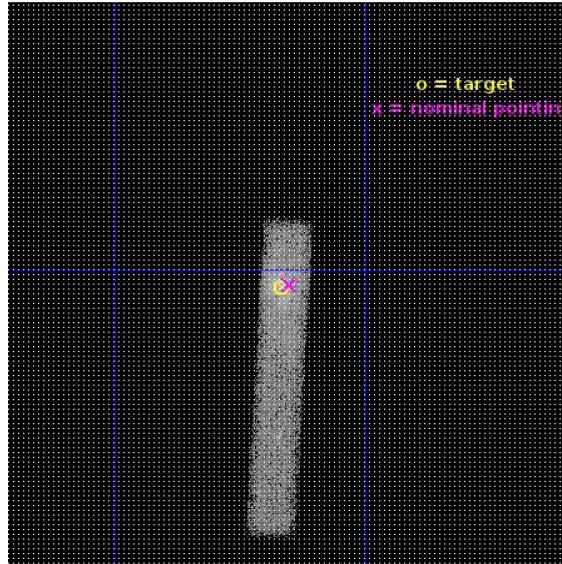
L2 Processing Date : Mar 31 2019

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1 Front

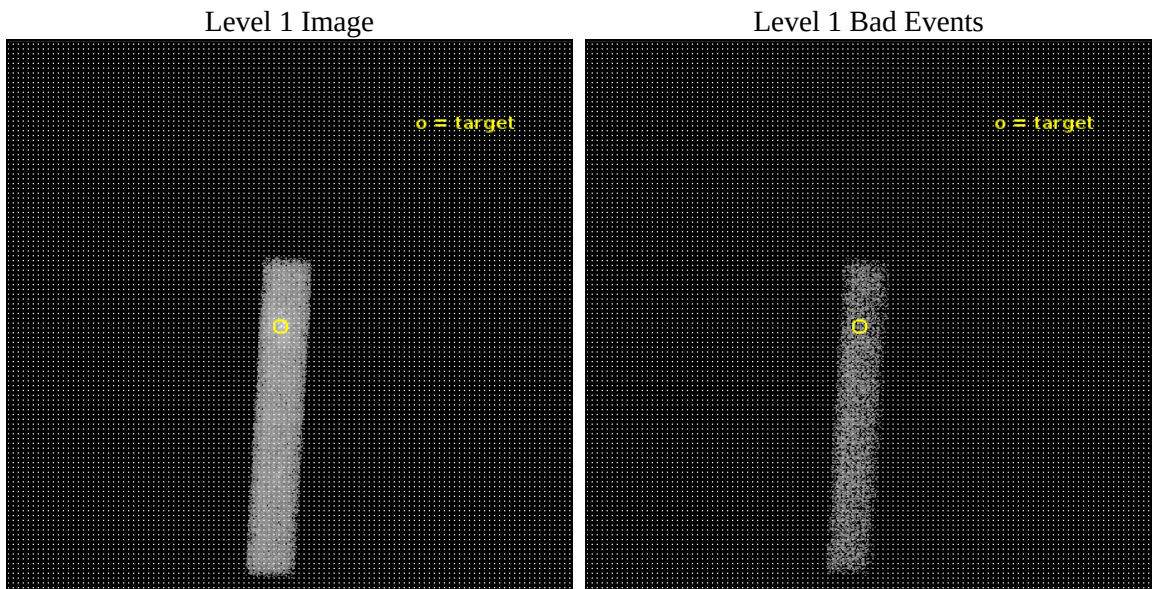
seq_num	703751	Sequence number
obs_id	21454	Observation id
title	Event Horizon Dynamics: Joint Chandra/EHT Imaging of Sgr A* and M87	
observer	Daryl Haggard	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41283256949	Nominal RA [deg]
dec_nom	-29.006708309641	Nominal Dec [deg]
roll_nom	93.15476511626	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33593.19799757	Sum of GTIs [s]
livetime	30467.257389416	Livetime [s]
ontime7	33593.19799757	Sum of GTIs [s]
l2events	35813	Number of level 2 events



2 OBI

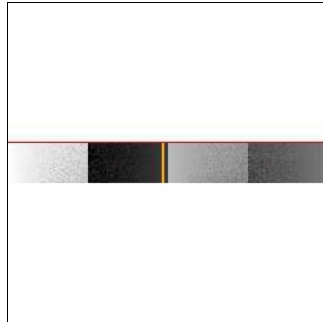
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33523.422000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	33593.19799757	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	33593.19799757	Sum of GTIs [s]
date	2019-03-31T03:34:41	Date and time of file creation	l1events	59772	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

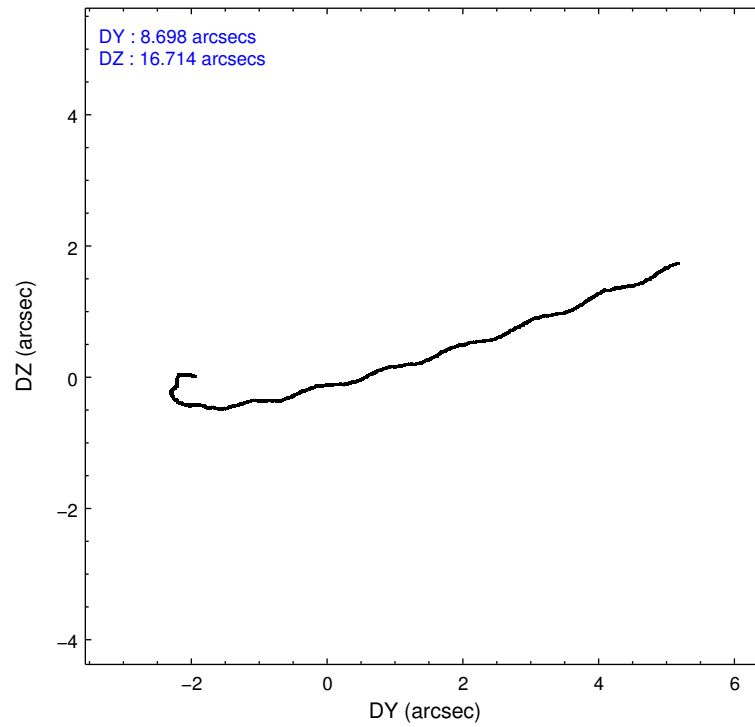
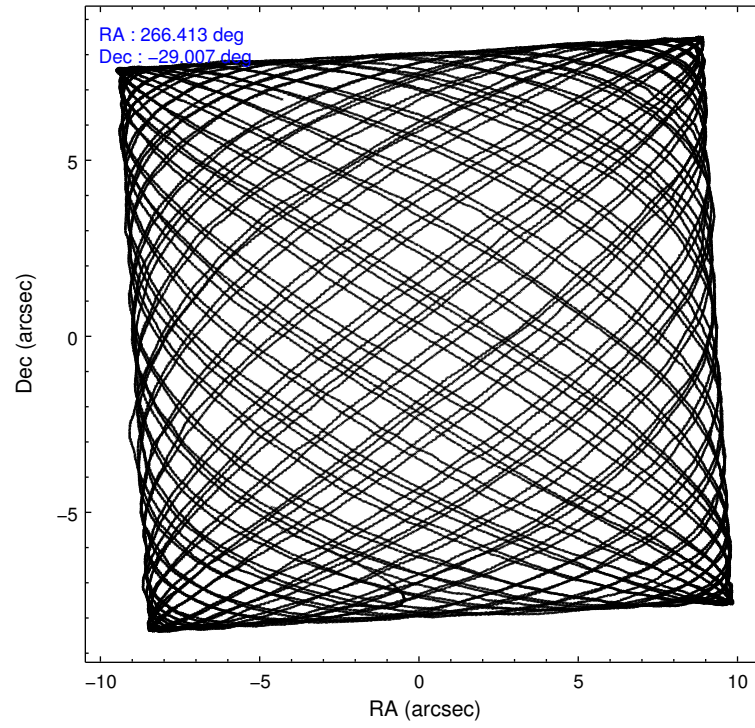
	ccd 7
level 1 events	59772
rejected events	22862
rejected %	38%

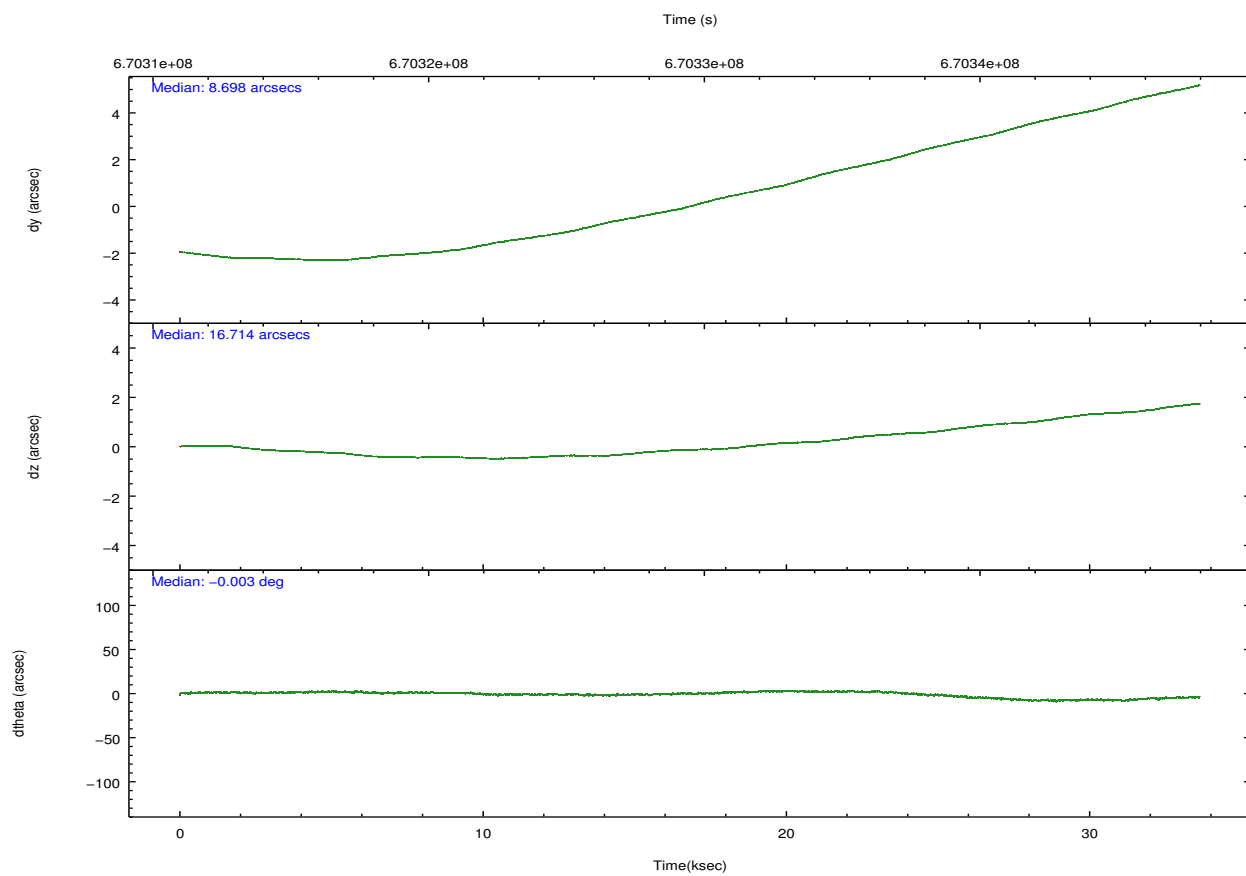
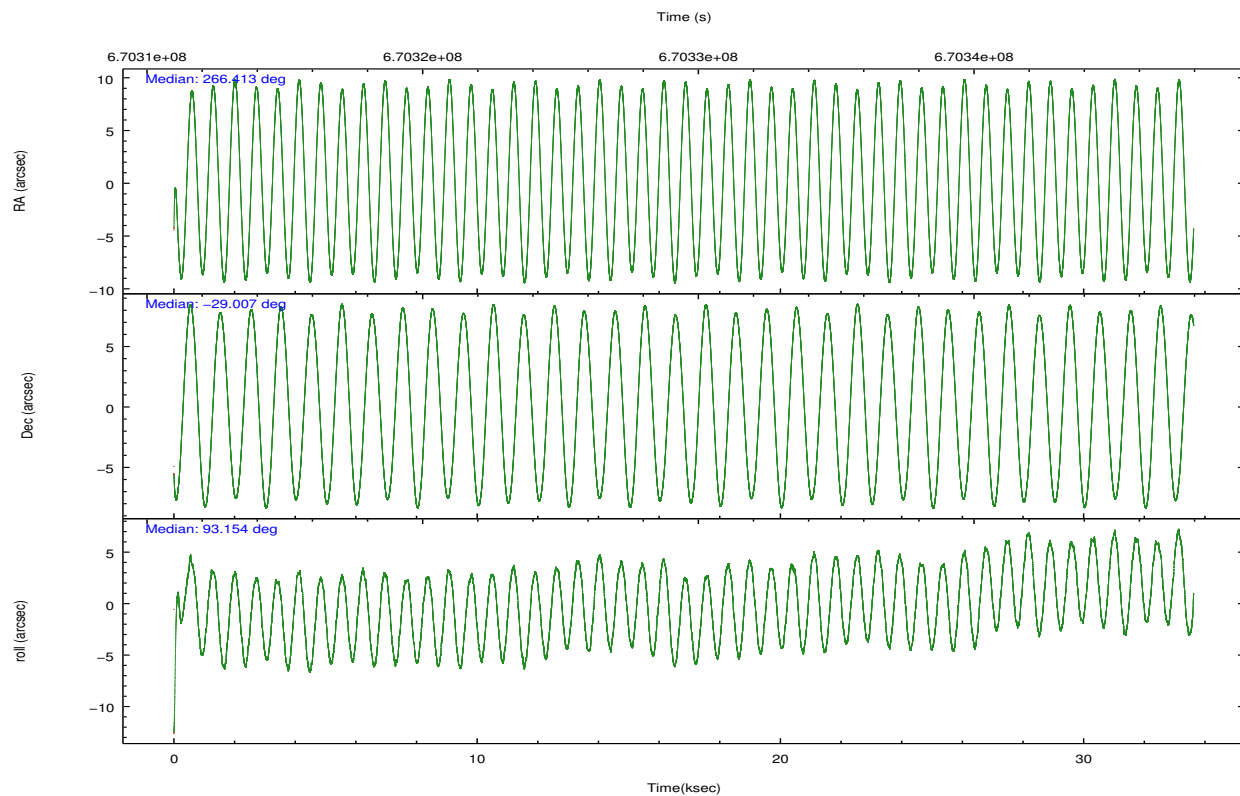
	ccd 7
grade 0 events	5376
	8%
grade 1 events	78
	0%
grade 2 events	7838
	13%
grade 3 events	4438
	7%
grade 4 events	4272
	7%
grade 5 events	4596
	7%
grade 6 events	14988
	25%
grade 7 events	18186
	30%

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	266.4128325694944	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.029483	-29.00670830964137	Subarray start row	449	449
[deg] Pointing Roll	93.006644	93.15476511626018	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)	670312762.184000	670311283.65517			
Observation start date	2019-03-30T05:58:13	2019-03-30T05:34:43			
[s] Observation end time (MET)	670346286.184000	670347078.70731			
Observation end date	2019-03-30T15:16:57	2019-03-30T15:31:18			
Read mode	TIMED	TIMED			

2.3 Aspect



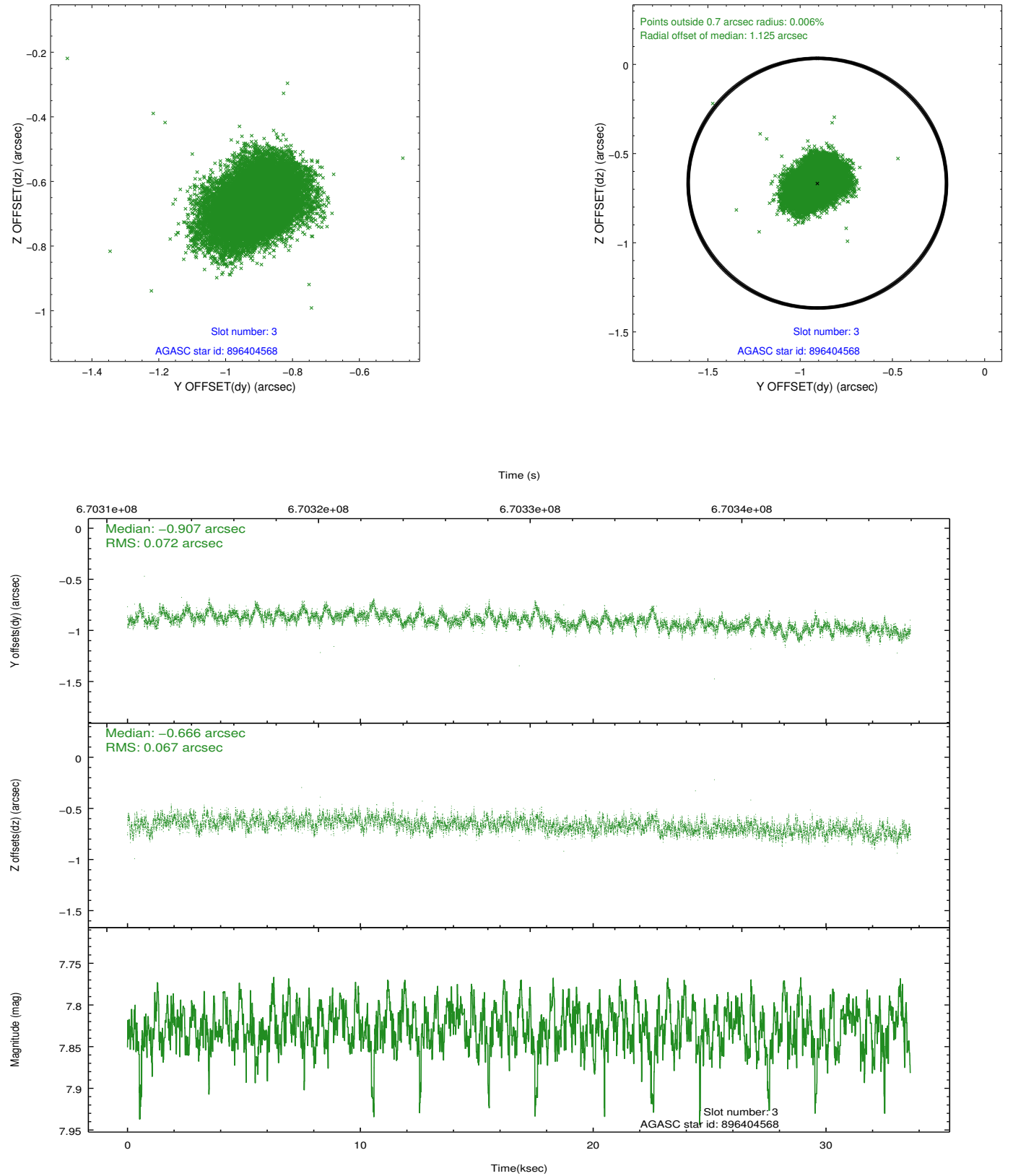


Slot Statistics

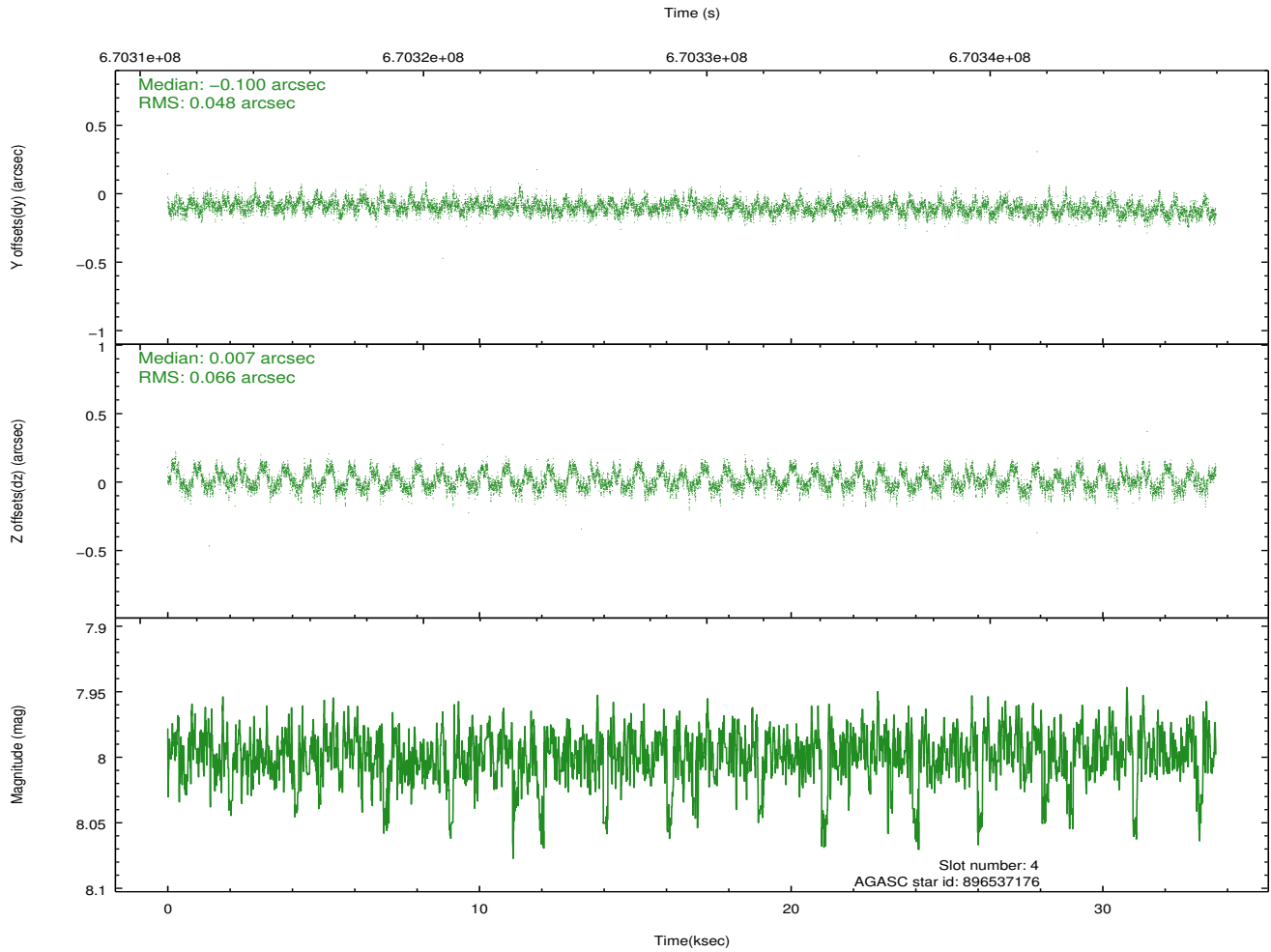
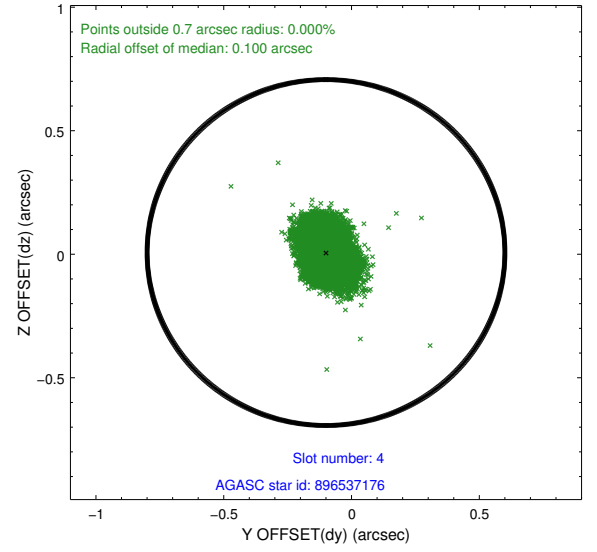
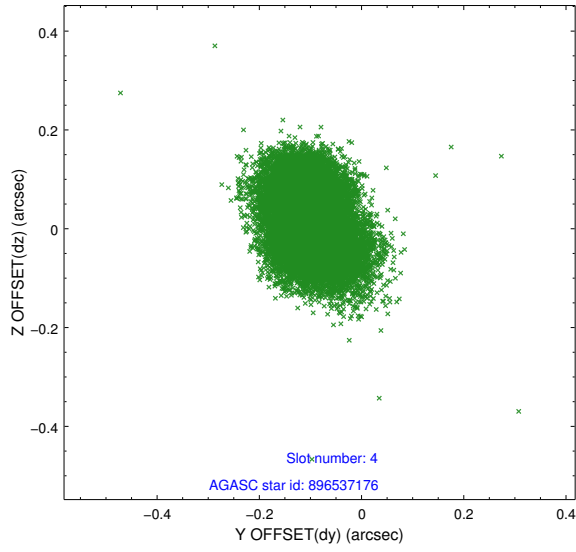
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.15	8203	1.000	0.194	0.016	0.032	0.080	0.000000	0.000000	934.16	-1734
1	FID		ACIS-S-2	7.07	8202	1.000	-0.278	-0.135	0.038	0.093	0.000000	0.000000	-762.19	-1738
2	FID		ACIS-S-6	7.31	8198	1.000	0.057	0.120	0.020	0.040	0.000000	0.000000	399.75	807
3	GUIDE	used	896404568	7.83	16399	1.000	-0.907	-0.666	0.104	0.168	265.687293	-28.431080	2266.68	2236
4	GUIDE	used	896537176	8.00	16398	1.000	-0.100	0.007	0.088	0.137	266.498272	-28.678259	1251.32	-280
5	GUIDE	used	896537776	7.50	16403	1.000	0.384	0.260	0.070	0.116	266.655684	-29.665673	-2324.12	-583
6	GUIDE	used	896533888	7.01	16400	1.000	0.304	0.241	0.075	0.116	266.666434	-29.392757	-1345.38	-670
7	GUIDE	used	896541360	7.70	16400	1.000	0.318	0.155	0.081	0.132	266.684478	-29.453744	-1567.43	-715

2.4 Star Slots

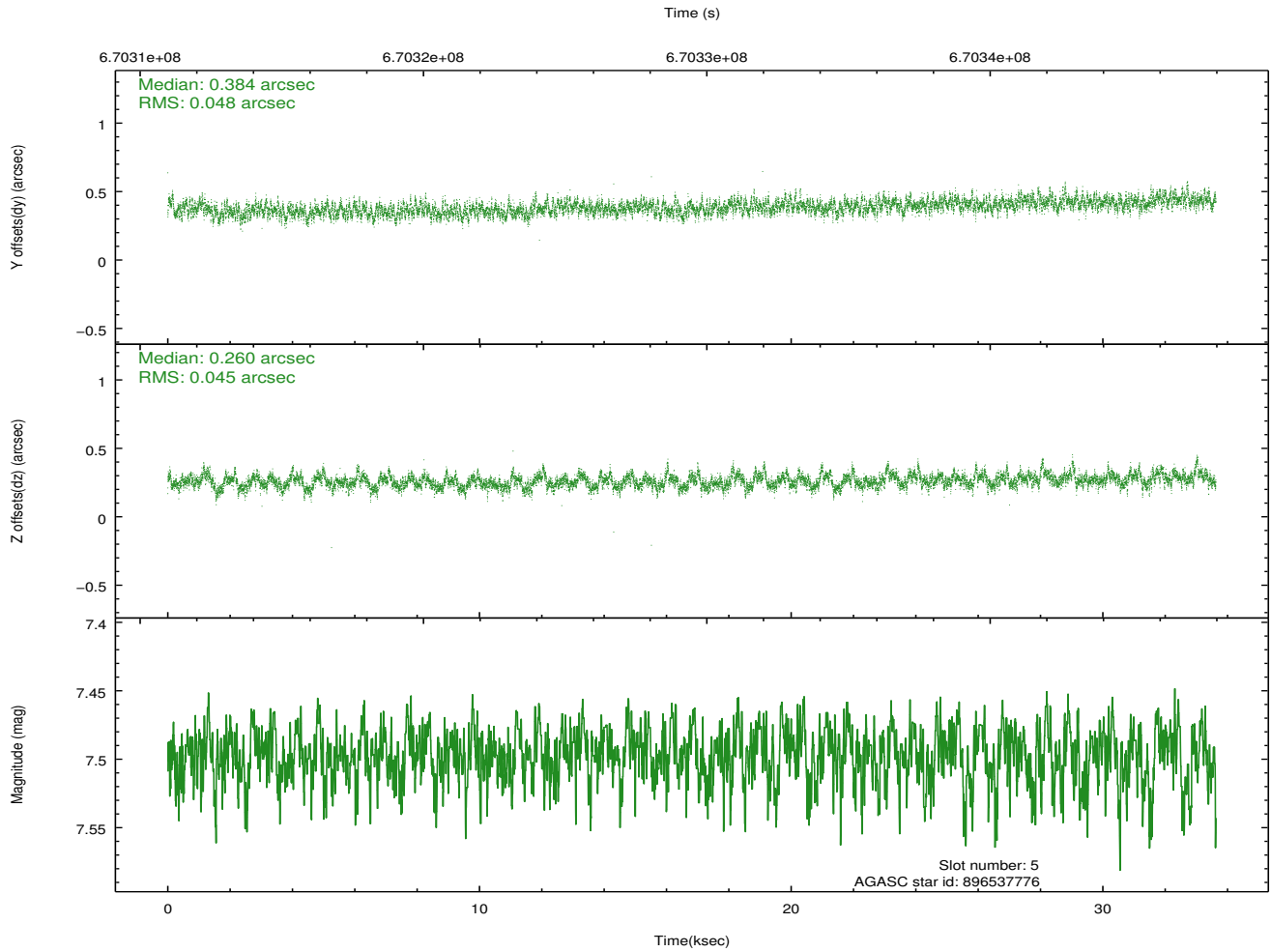
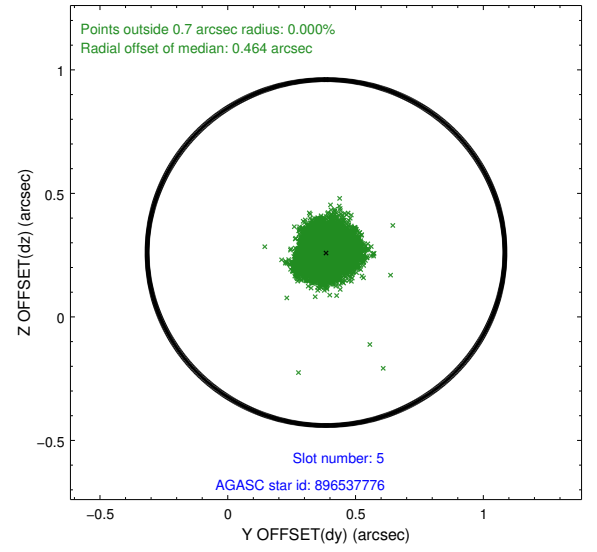
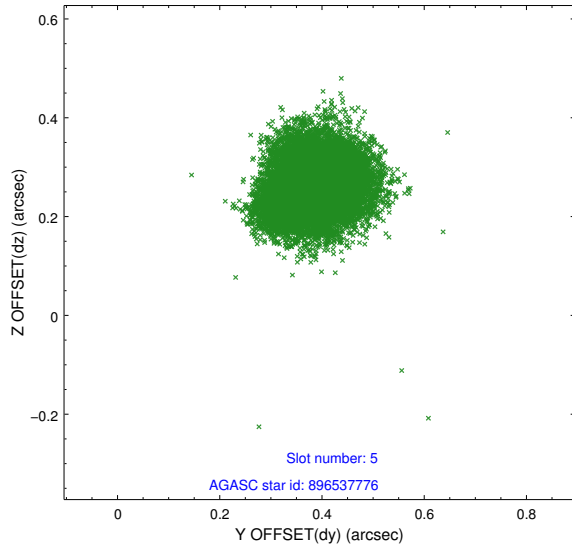
2.4.1 Slot 3



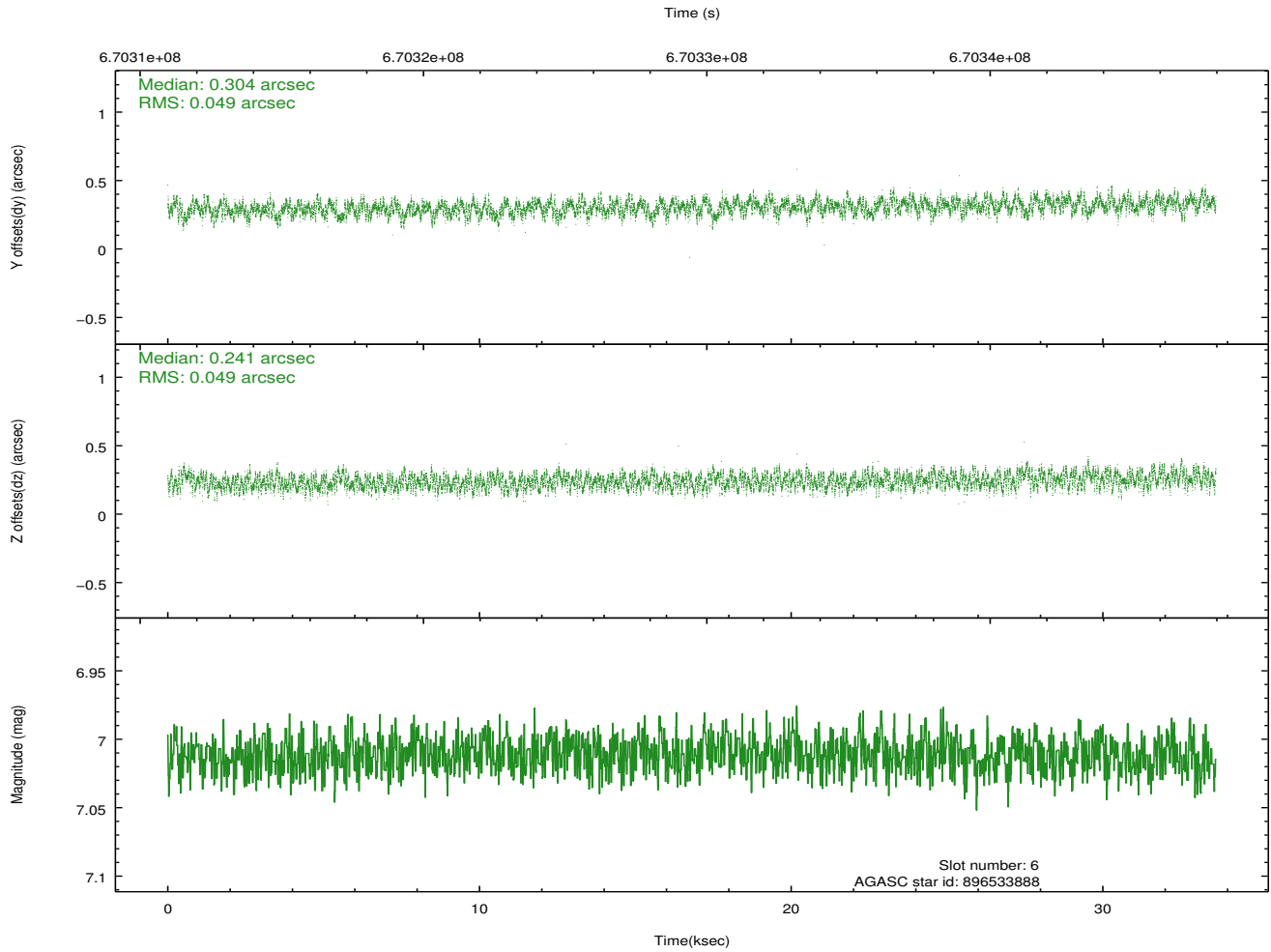
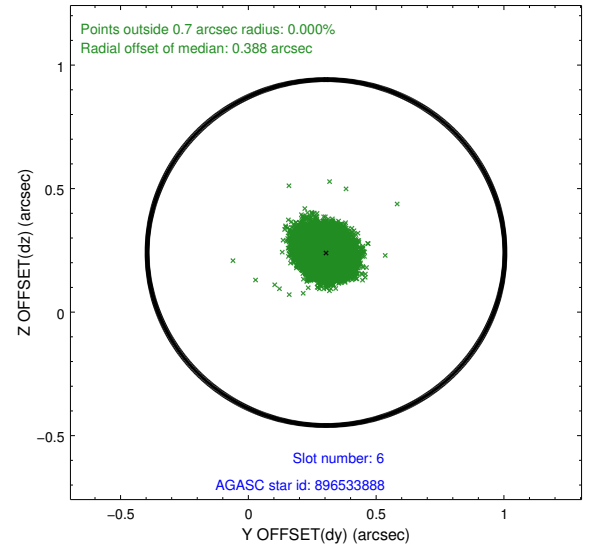
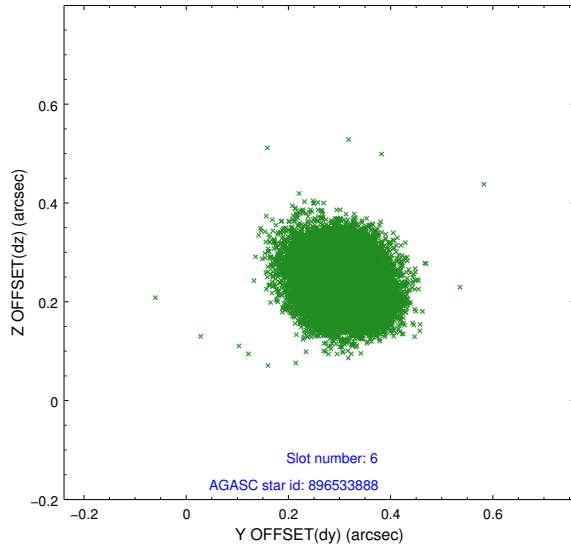
2.4.2 Slot 4



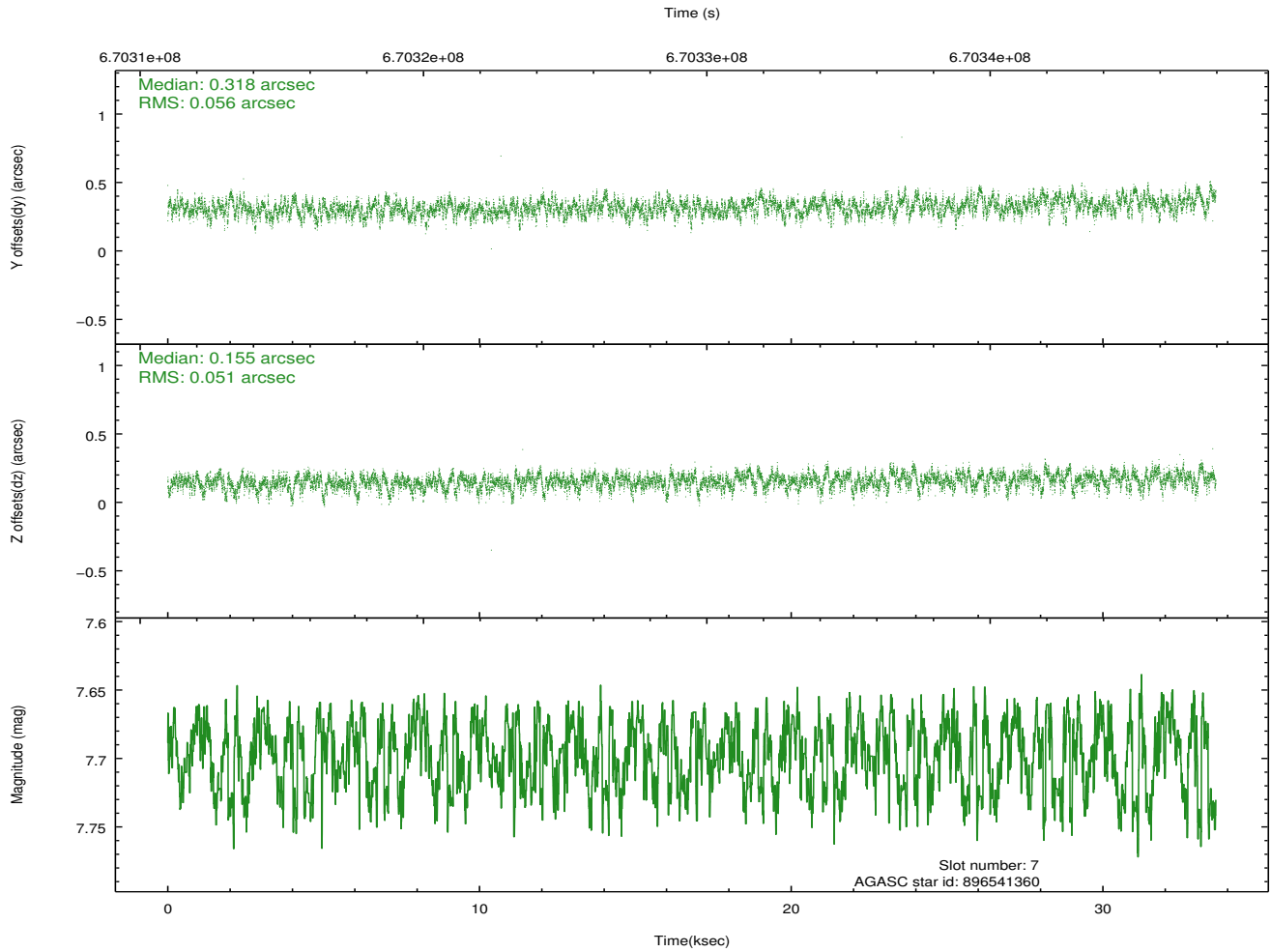
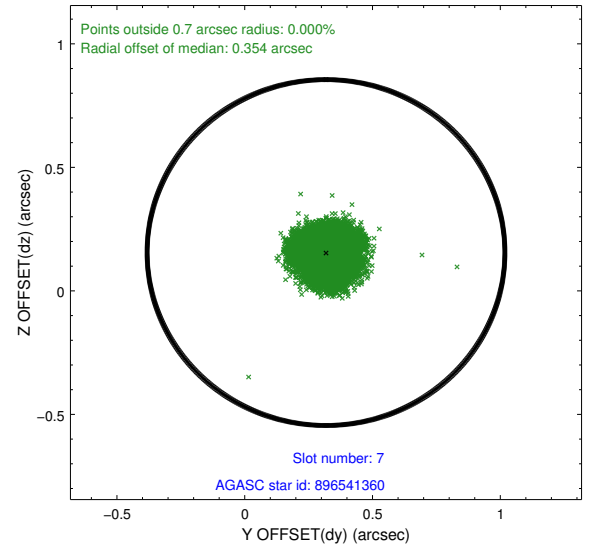
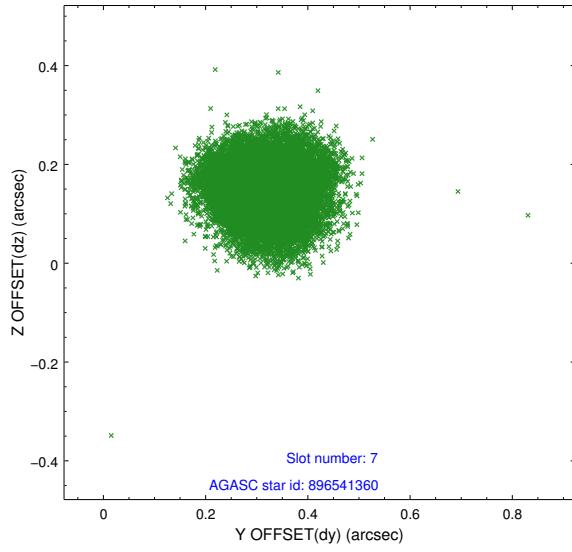
2.4.3 Slot 5



2.4.4 Slot 6

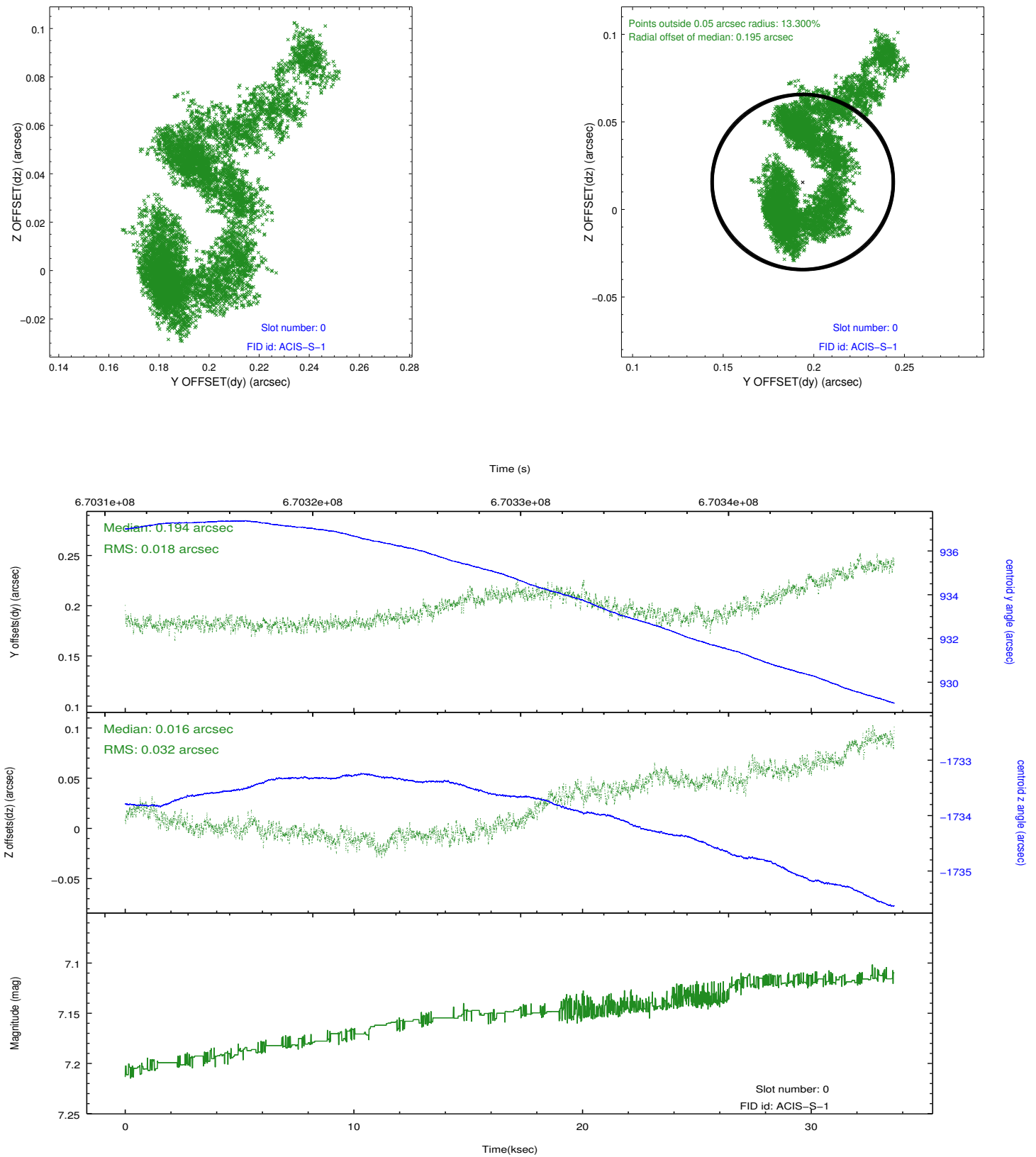


2.4.5 Slot 7

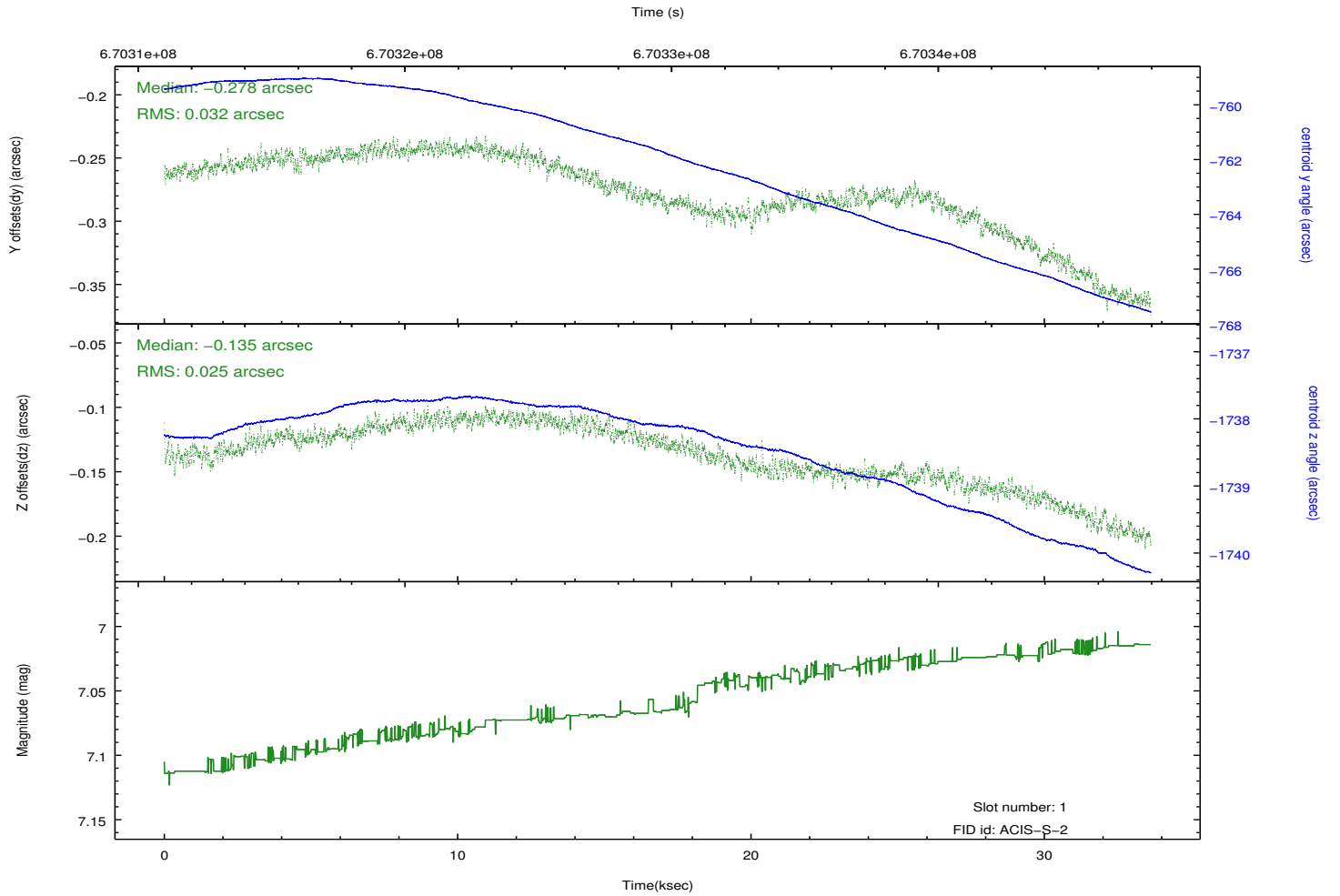
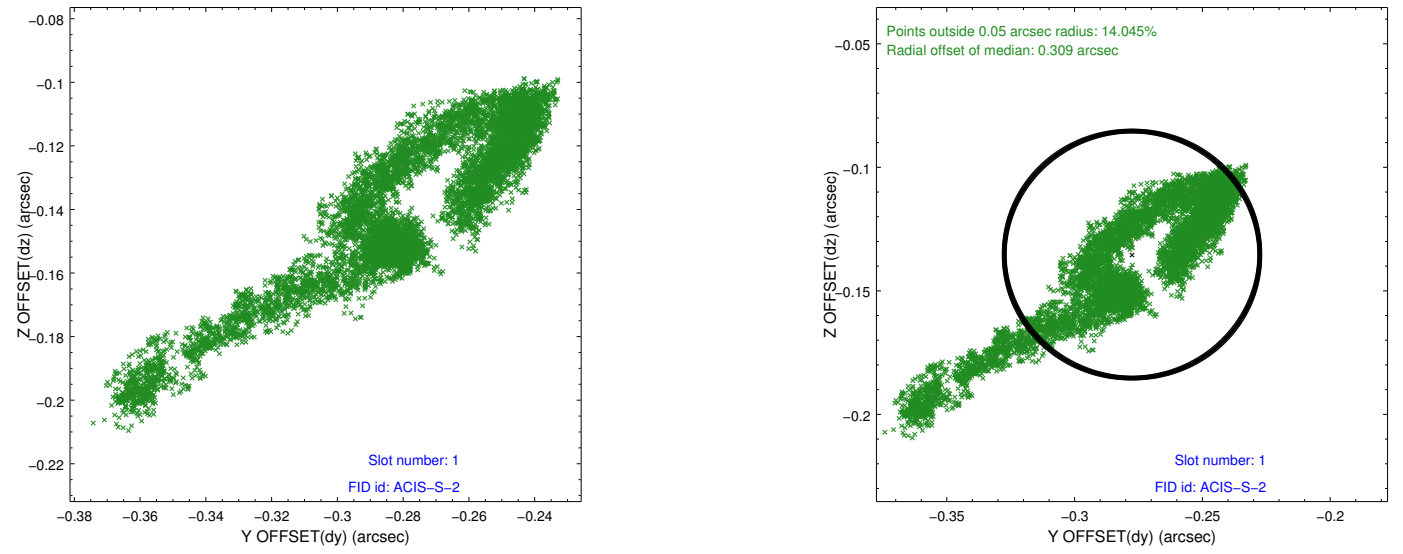


2.5 FID Slots

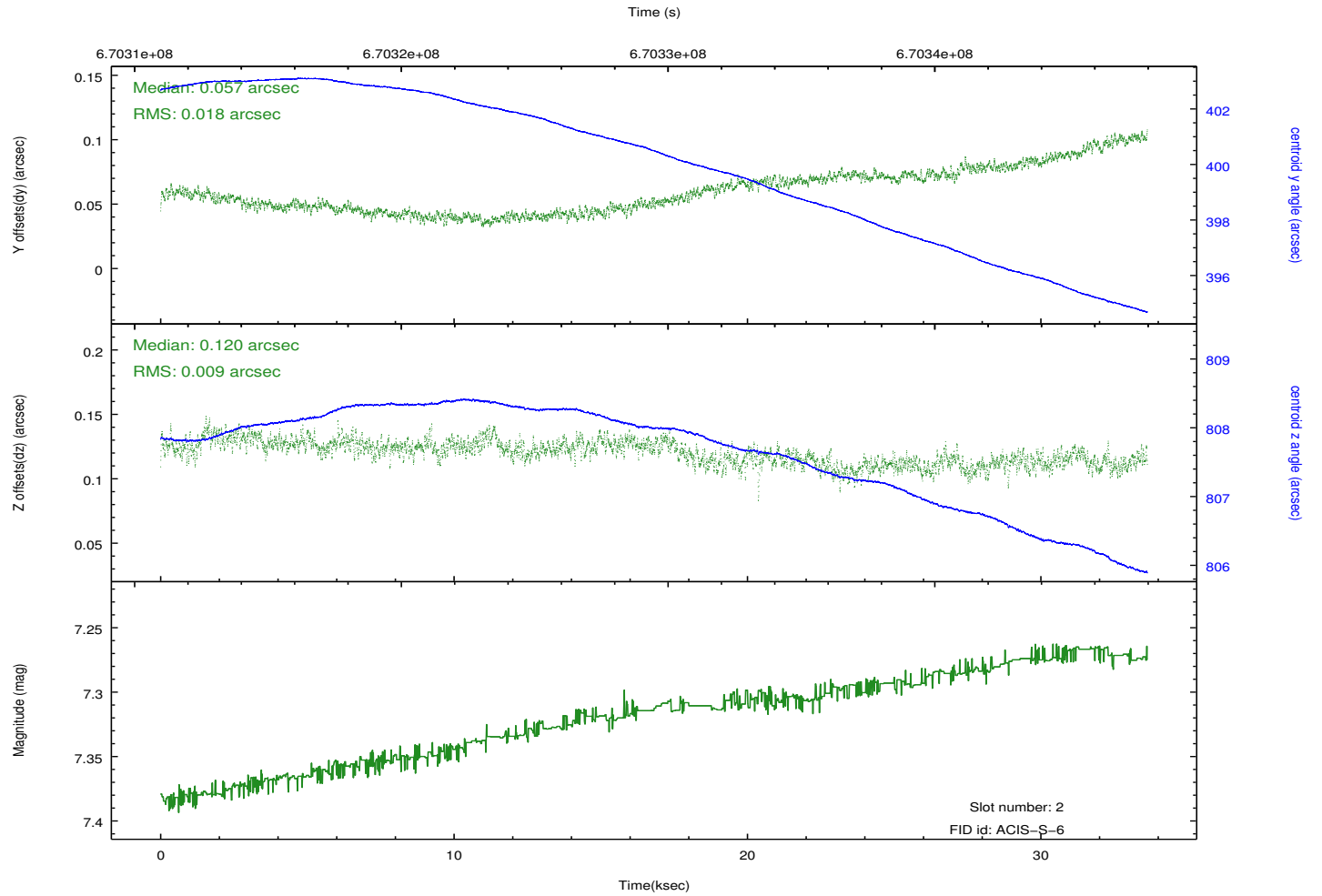
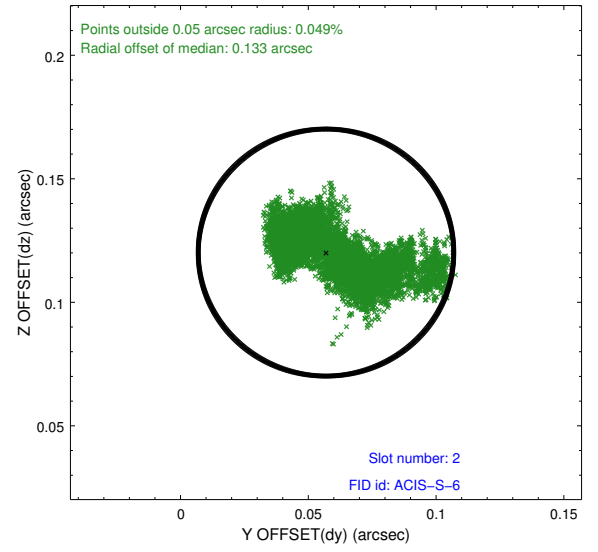
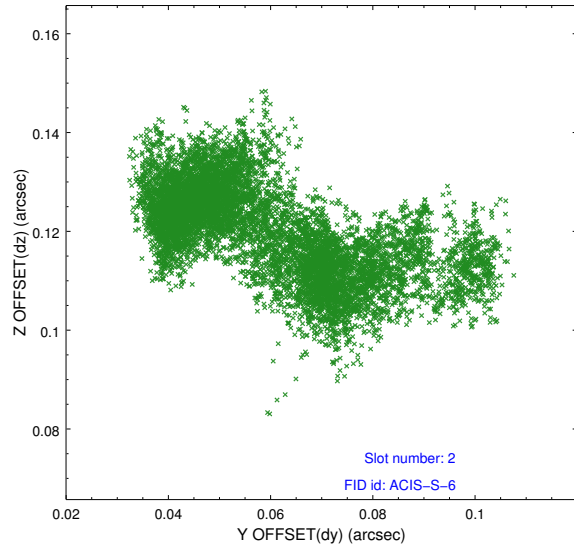
2.5.1 Slot 0



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)	2019.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.59319799757

A.2 Comments