

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20836 - L2 Version 1
Chandra X-Ray Center

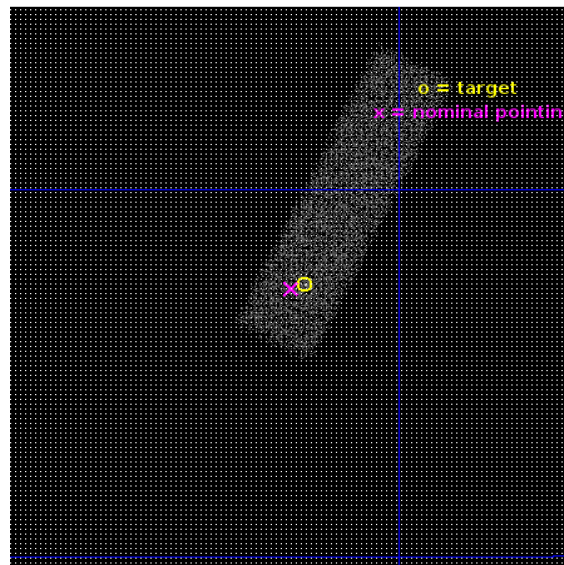
L2 Processing Date : Nov 5 2017

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

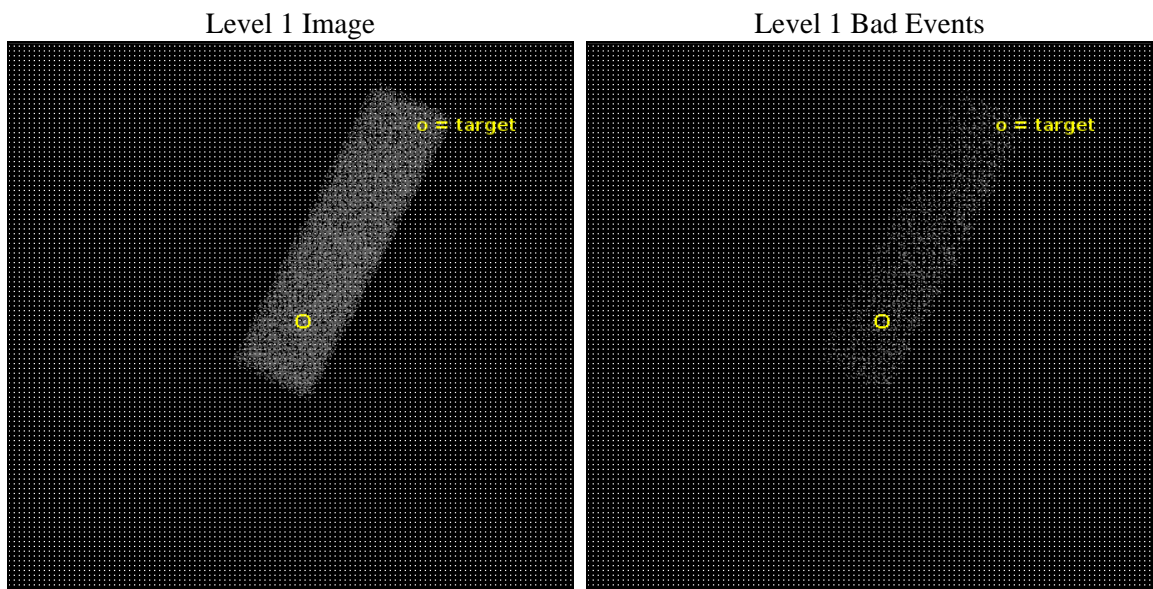
seq_num	502955	Sequence number
obs_id	20836	Observation id
title	PSR J2032+4127: A Be/Gamma-ray Pulsar Binary Heading Toward Periastron	Proposal title
observer	Jules Halpern	Principal investigator
object	PSR J2032+4127	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.054583	Observer's specified target RA [deg]
dec_targ	41.456806	Observer's specified target Dec [deg]
ra_nom	308.06254380763	Nominal RA [deg]
dec_nom	41.454928174142	Nominal Dec [deg]
roll_nom	296.15136093582	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10059.999400377	Sum of GTIs [s]
livetime	9569.1043473579	Livetime [s]
ontime7	10059.999400377	Sum of GTIs [s]
l2events	12466	Number of level 2 events



2 OBI

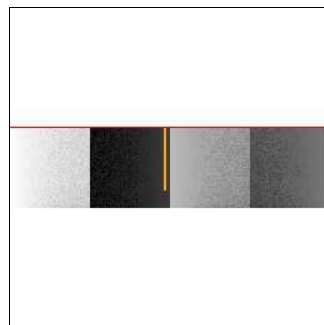
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10059.999400377	Sum of GTIs [s]
caldsver	4.7.6	 	ontime7	10059.999400377	Sum of GTIs [s]
date	2017-11-06T04:16:38	Date and time of file creation	l1events	25041	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

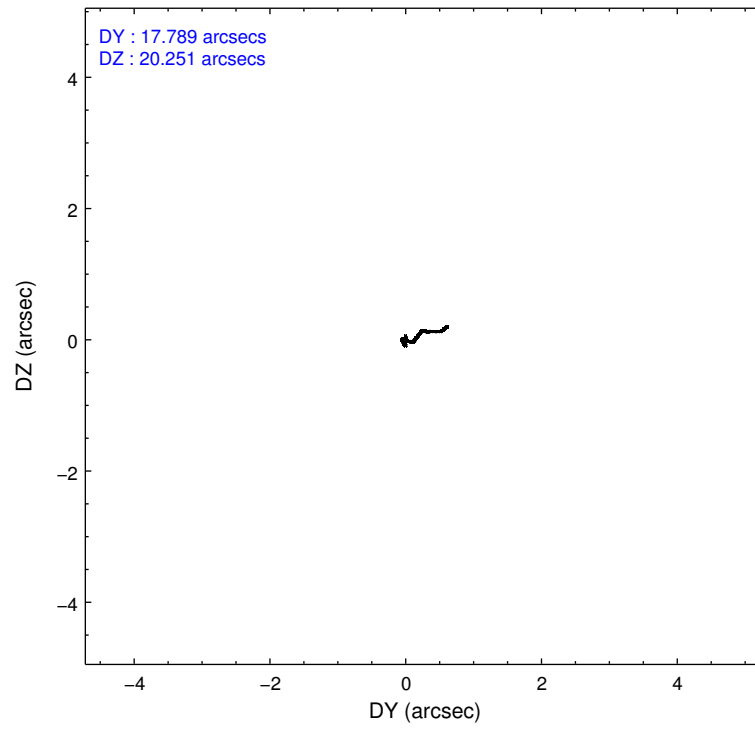
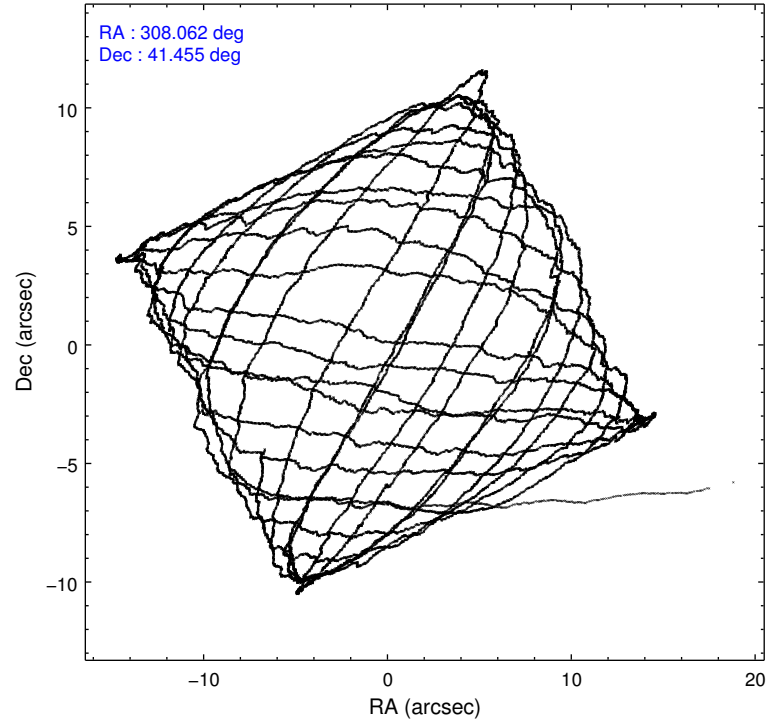
	ccd 7
level 1 events	25041
rejected events	12234
rejected %	48%

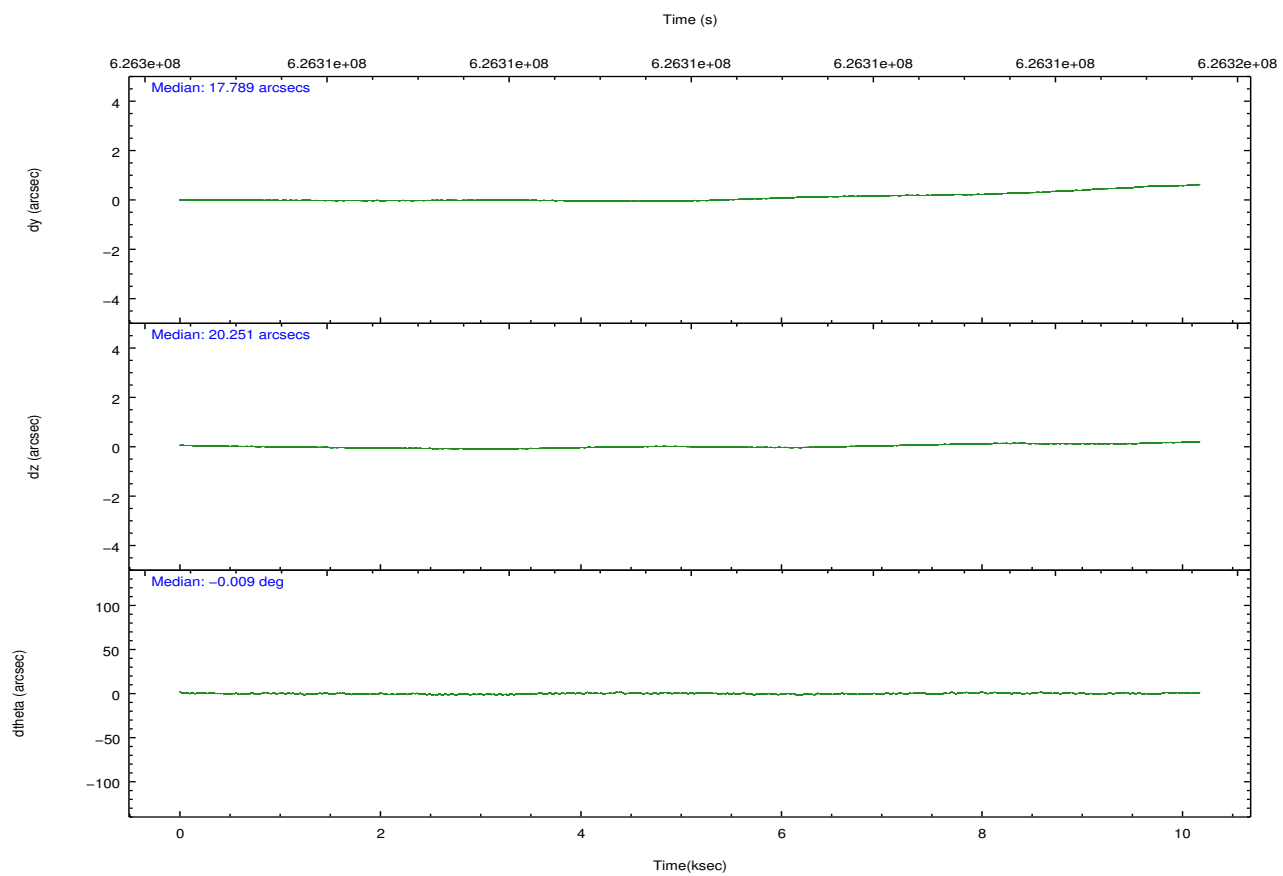
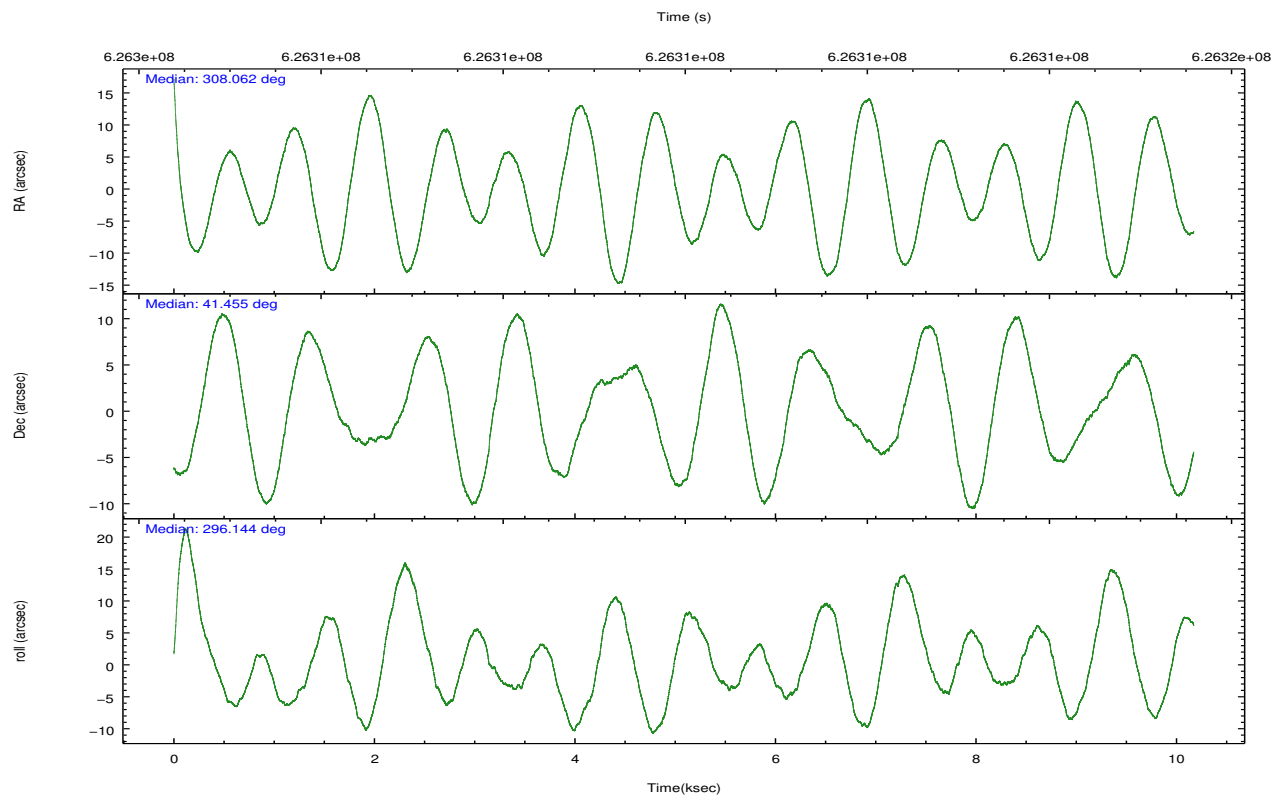
	ccd 7
grade 0 events	1487
	5%
grade 1 events	34
	0%
grade 2 events	2642
	10%
grade 3 events	1399
	5%
grade 4 events	1400
	5%
grade 5 events	2528
	10%
grade 6 events	5880
	23%
grade 7 events	9671
	38%

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	308.031874	308.0625438076283	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	41.469942	41.45492817414202	Subarray start row	385	385
[deg] Pointing Roll	296.015040	296.1513609358219	Subarray row count	256	256
[s] Window start time (MET)	624758469.184000	624758469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	627350469.184000	627350469.184000	[s] Primary exposure time	0.000000	0.8
[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)	626305066.184000	626304056.01736			
Observation start date	2017-11-05T21:36:37	2017-11-05T21:20:56			
[s] Observation end time (MET)	626315066.184000	626315723.59305			
Observation end date	2017-11-06T00:23:17	2017-11-06T00:35:23			
Read mode	TIMED	TIMED			

2.3 Aspect



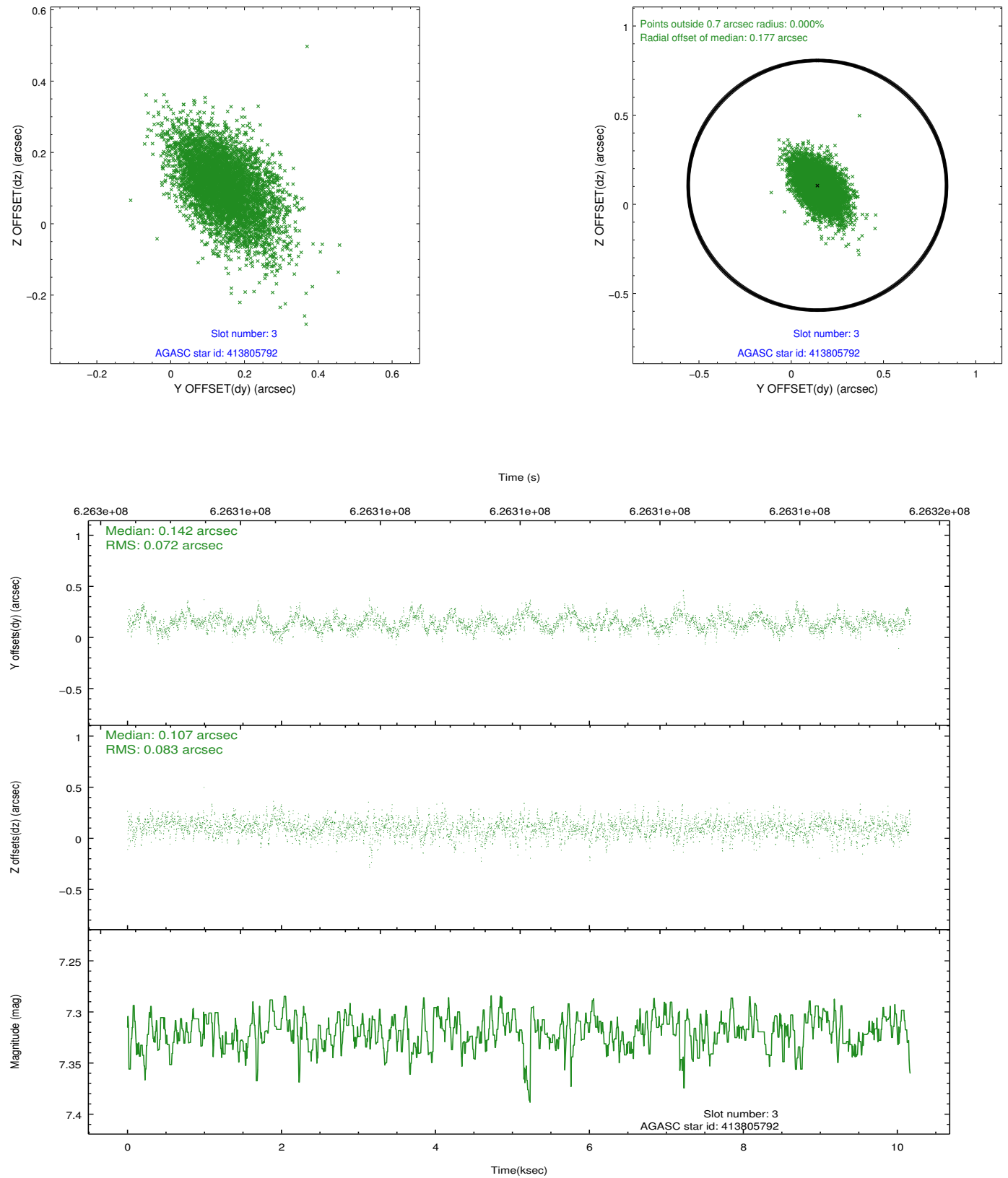


Slot Statistics

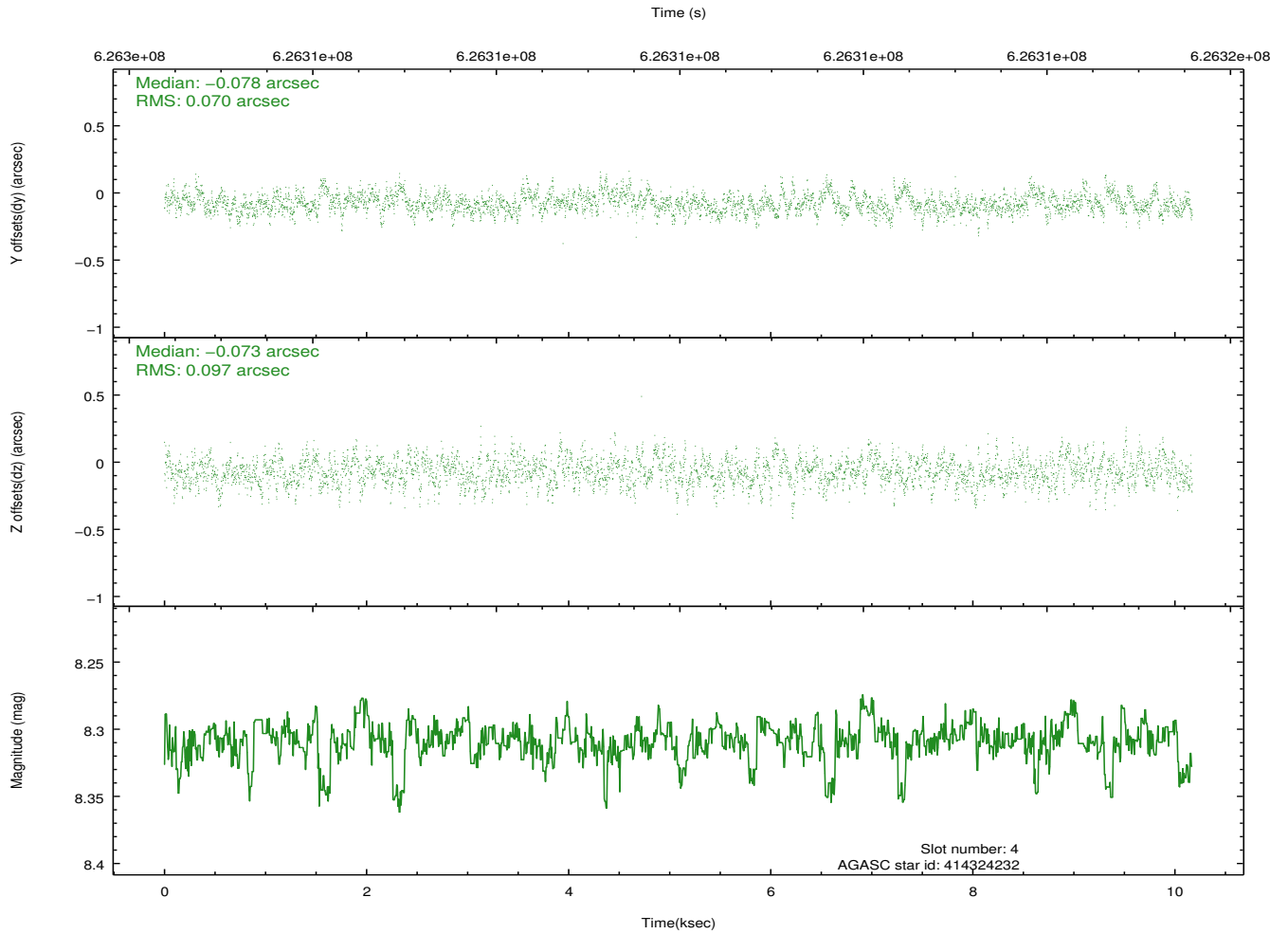
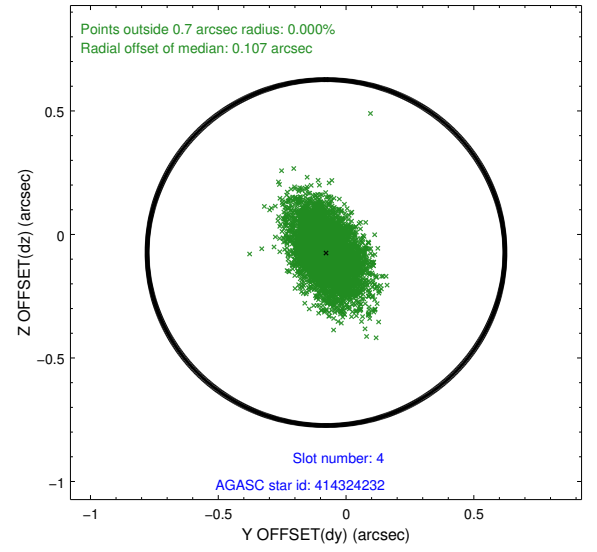
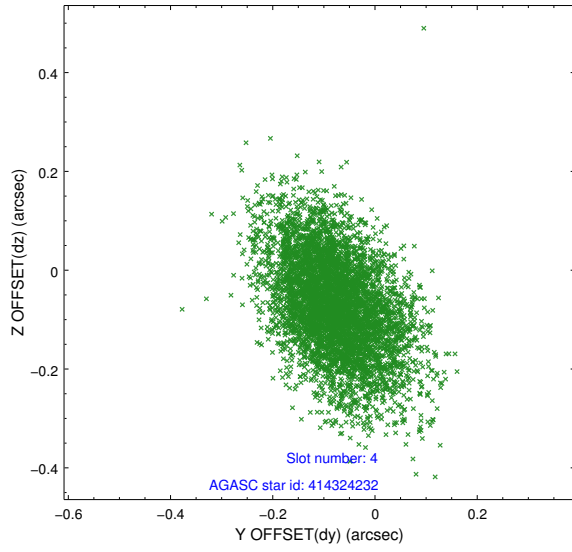
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	2481	0.291	-0.094	0.007	0.011	0.000000	0.000000	925.50	-1737.45
1	FID		ACIS-S-2	6.98	2481	-0.162	-0.008	0.008	0.013	0.000000	0.000000	-770.57	-1742.58
2	FID		ACIS-S-5	7.07	2481	-0.153	0.108	0.007	0.013	0.000000	0.000000	-1824.47	159.57
3	GUIDE	used	413805792	7.32	4960	0.142	0.107	0.112	0.197	307.778748	40.858024	1676.50	-1584.18
4	GUIDE	used	414324232	8.31	4958	-0.078	-0.073	0.123	0.213	308.637806	41.996627	-997.81	2290.62
5	GUIDE	used	414324952	9.00	4959	0.204	0.295	0.155	0.259	307.998954	42.060645	-1949.58	854.45
6	GUIDE	used	414326136	7.35	4963	-0.051	-0.159	0.110	0.198	308.256176	41.473642	251.97	550.72
7	GUIDE	used	414328464	9.12	4955	-0.232	-0.179	0.158	0.254	308.778827	41.333671	1318.51	1603.55

2.4 Star Slots

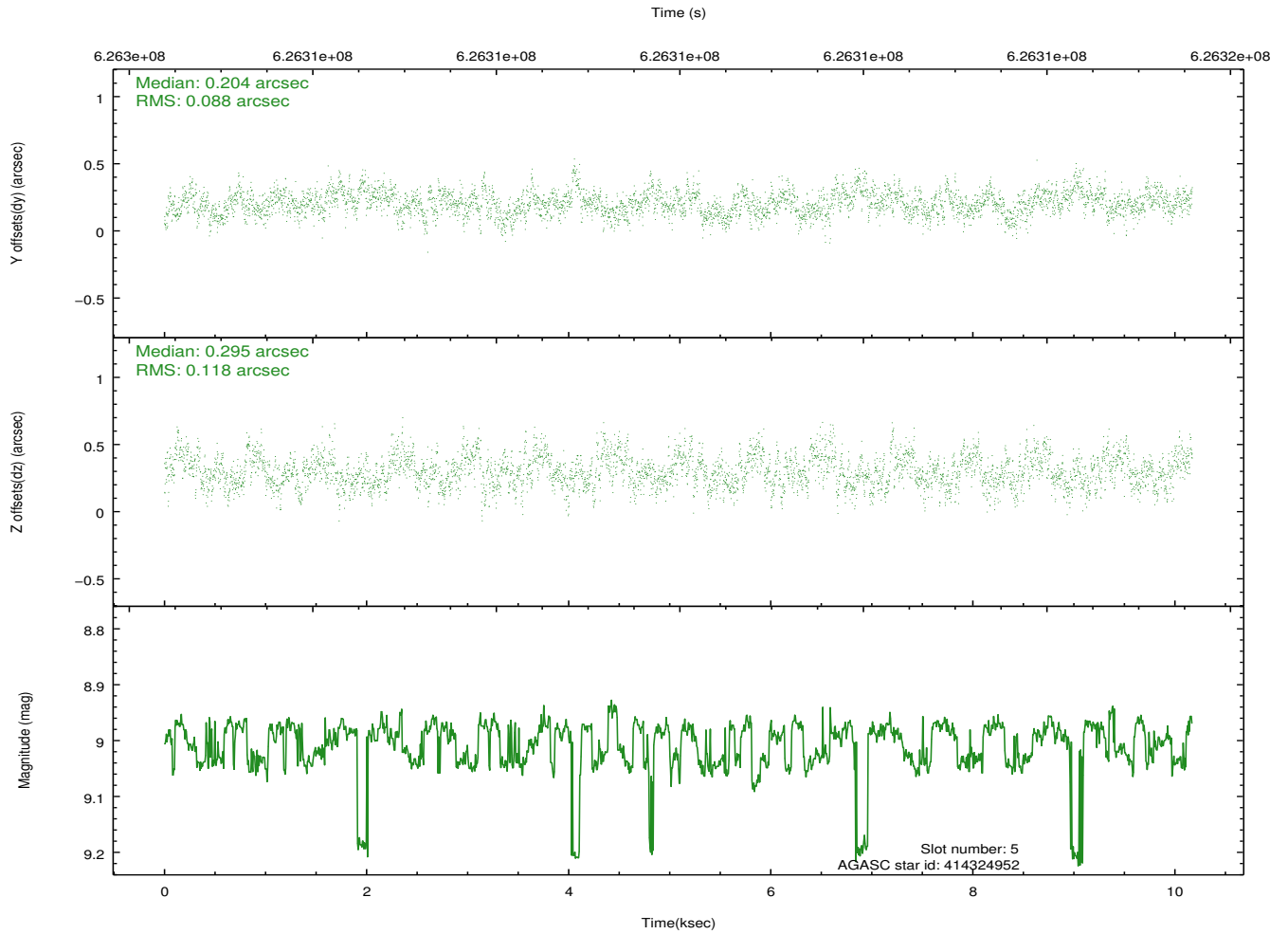
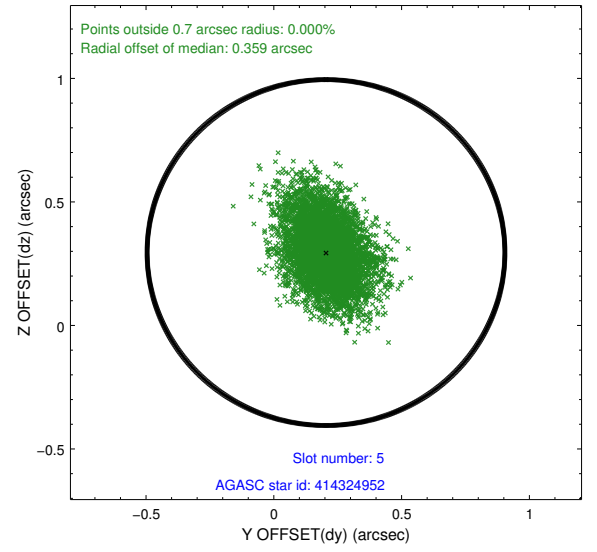
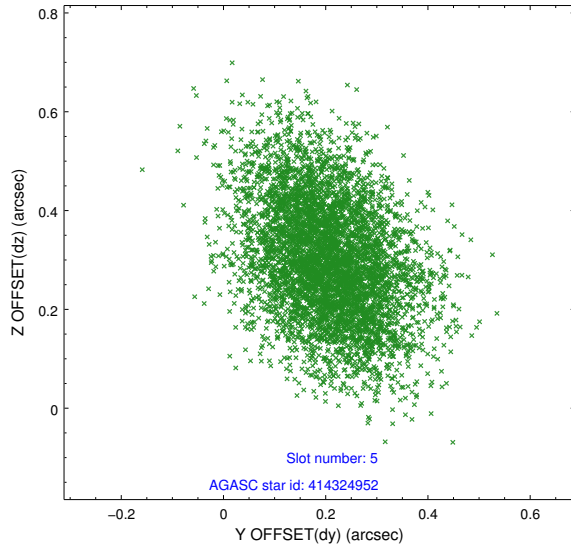
2.4.1 Slot 3



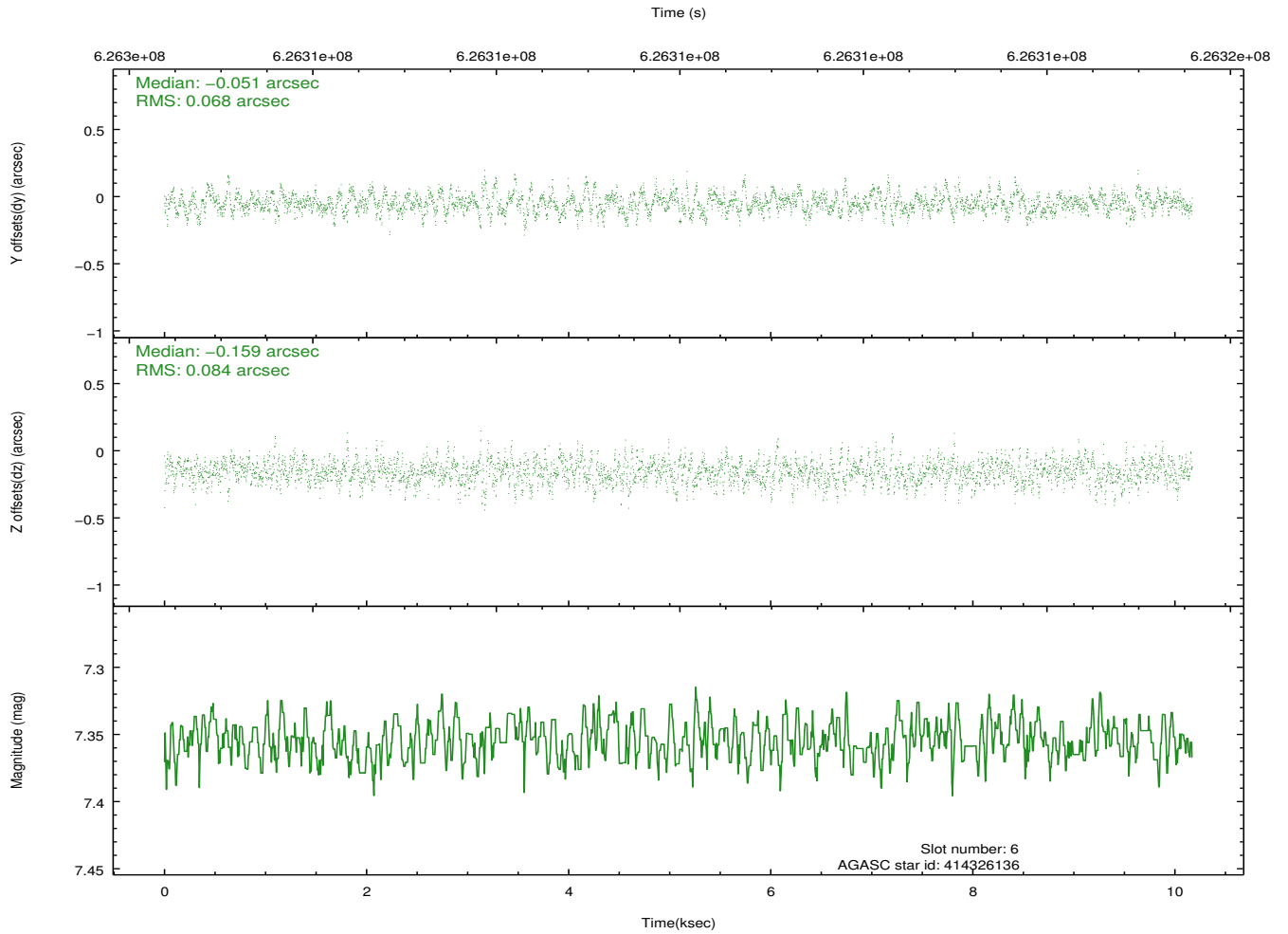
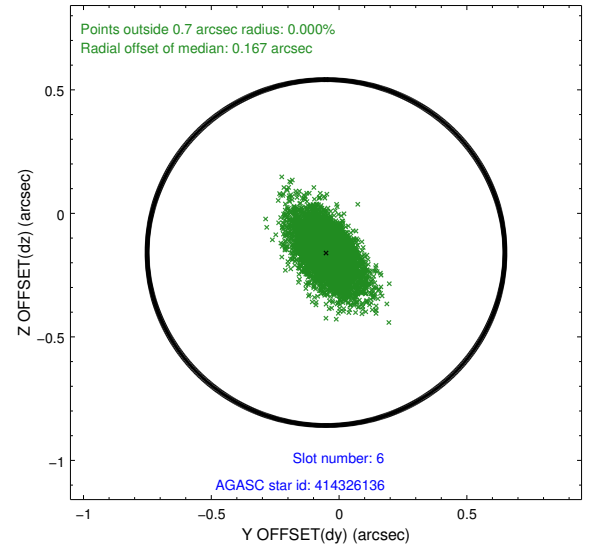
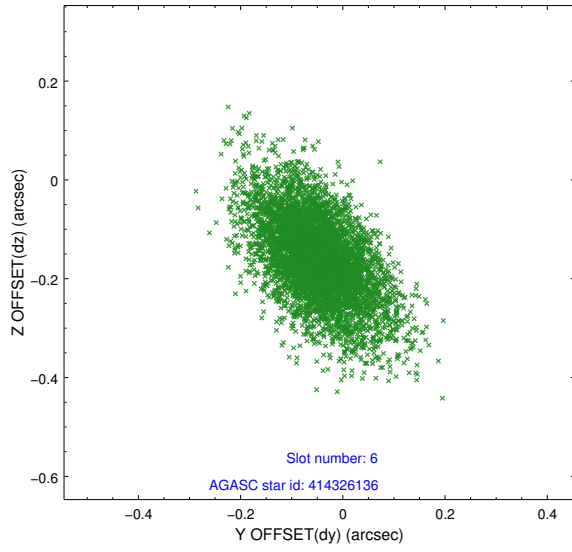
2.4.2 Slot 4



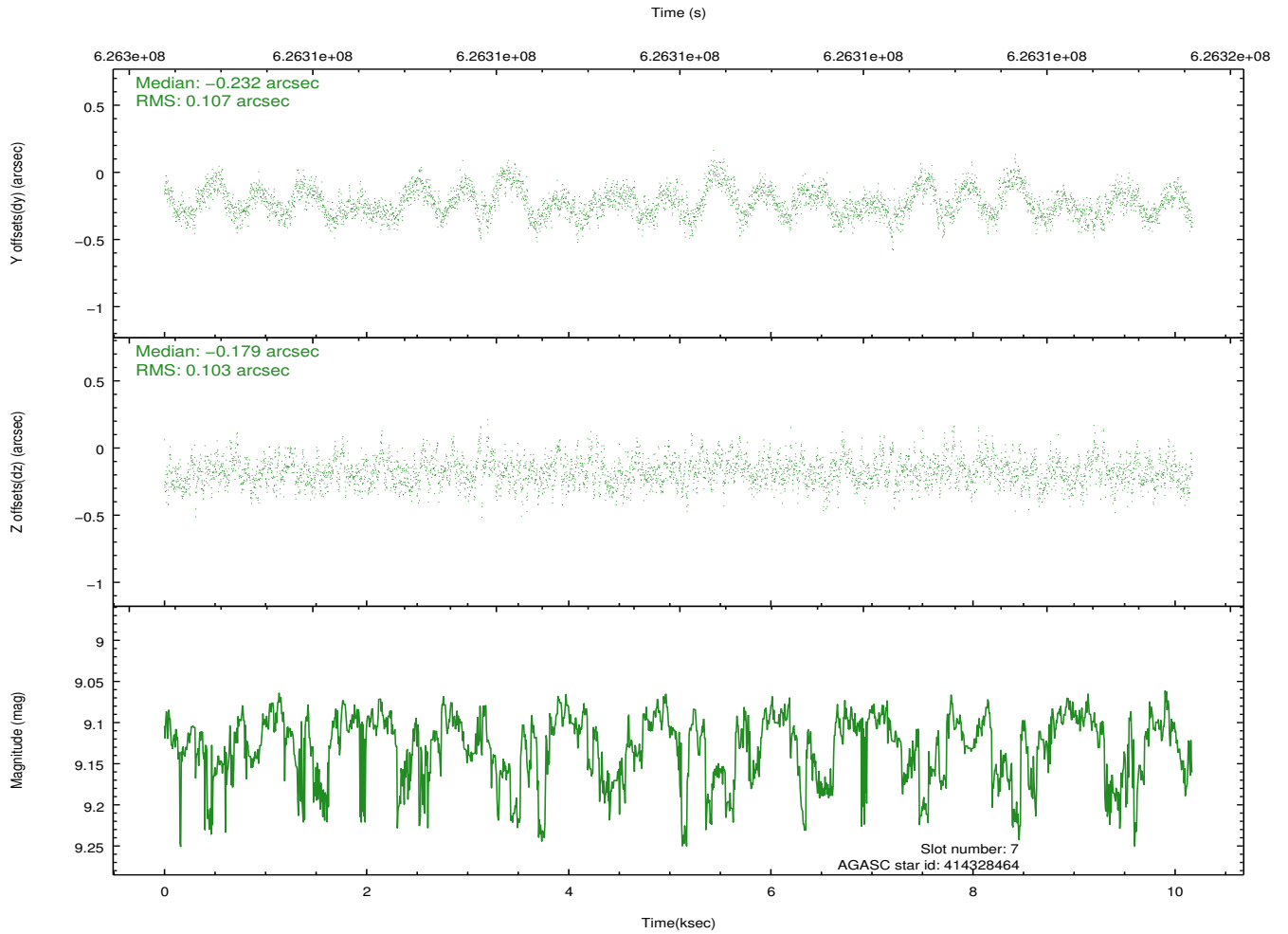
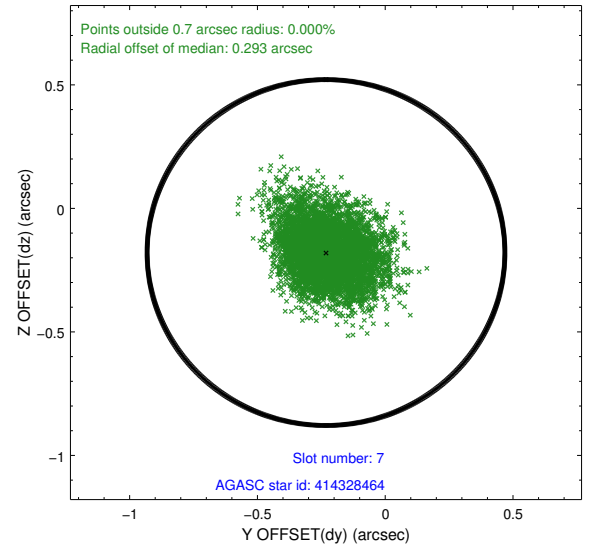
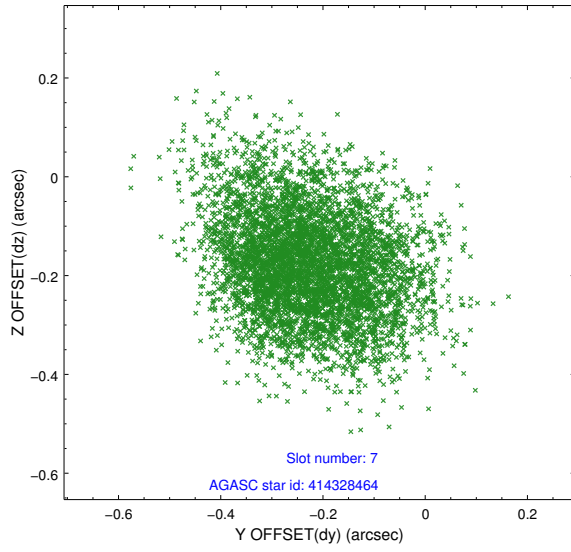
2.4.3 Slot 5



2.4.4 Slot 6

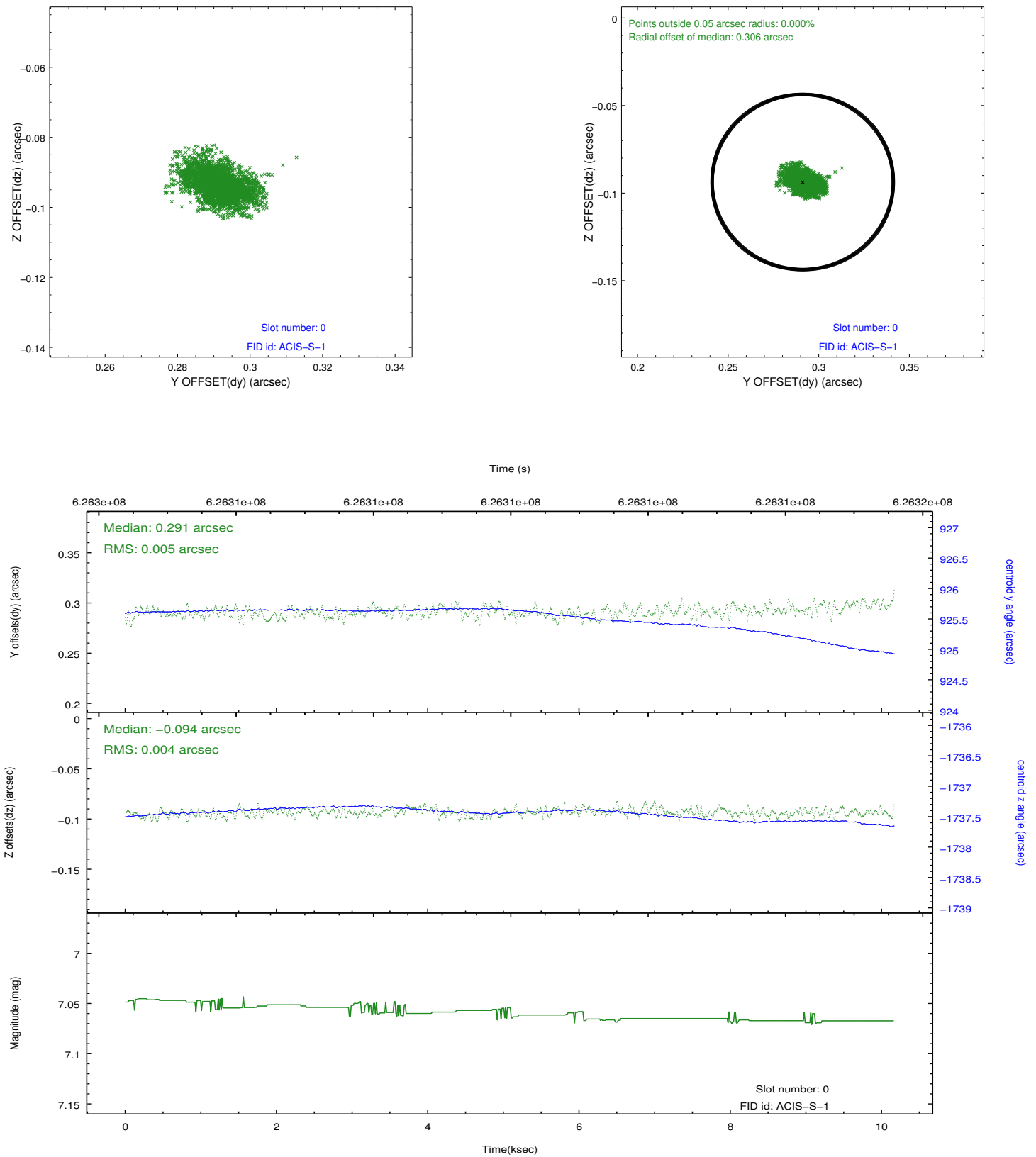


2.4.5 Slot 7

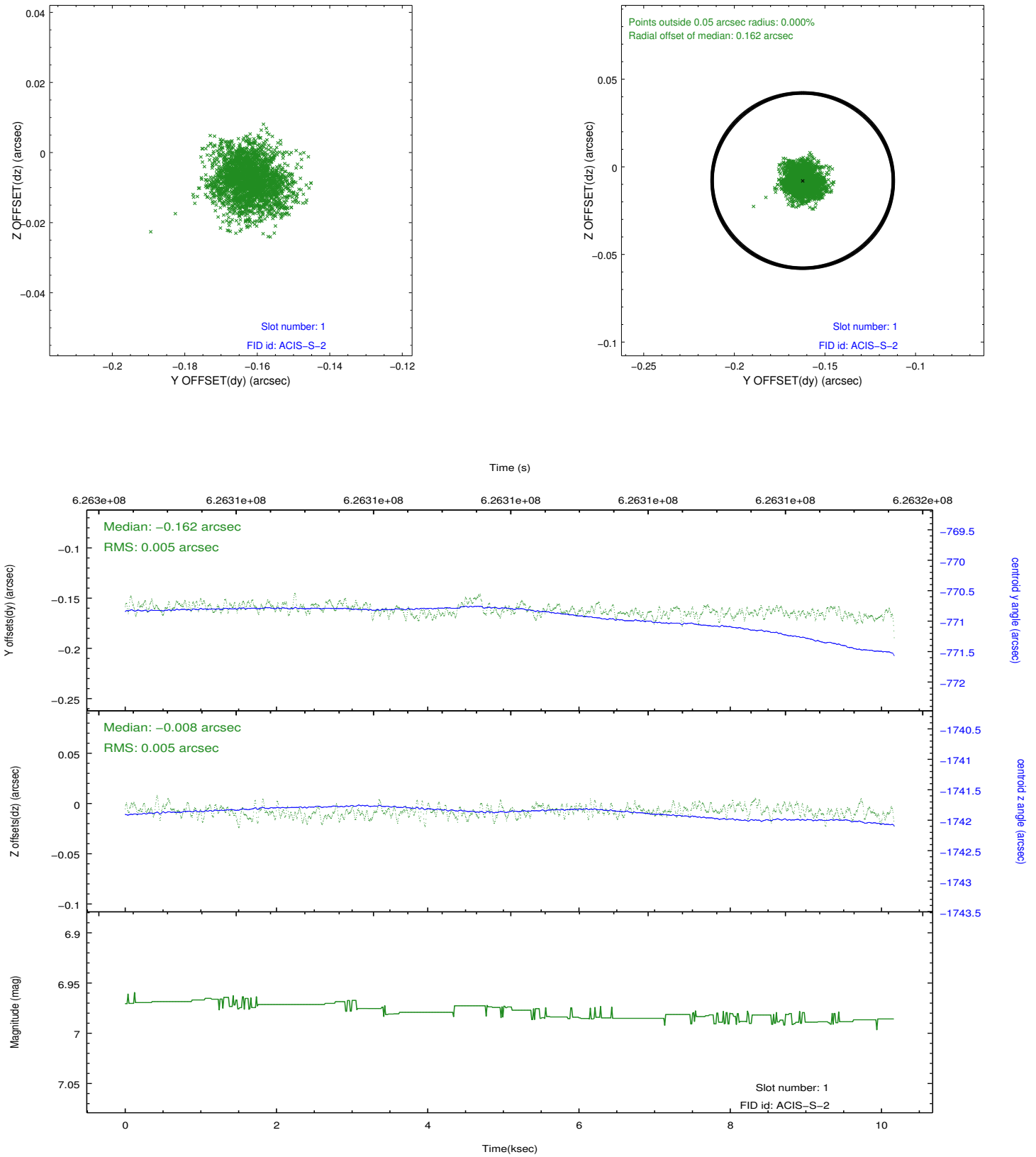


2.5 FID Slots

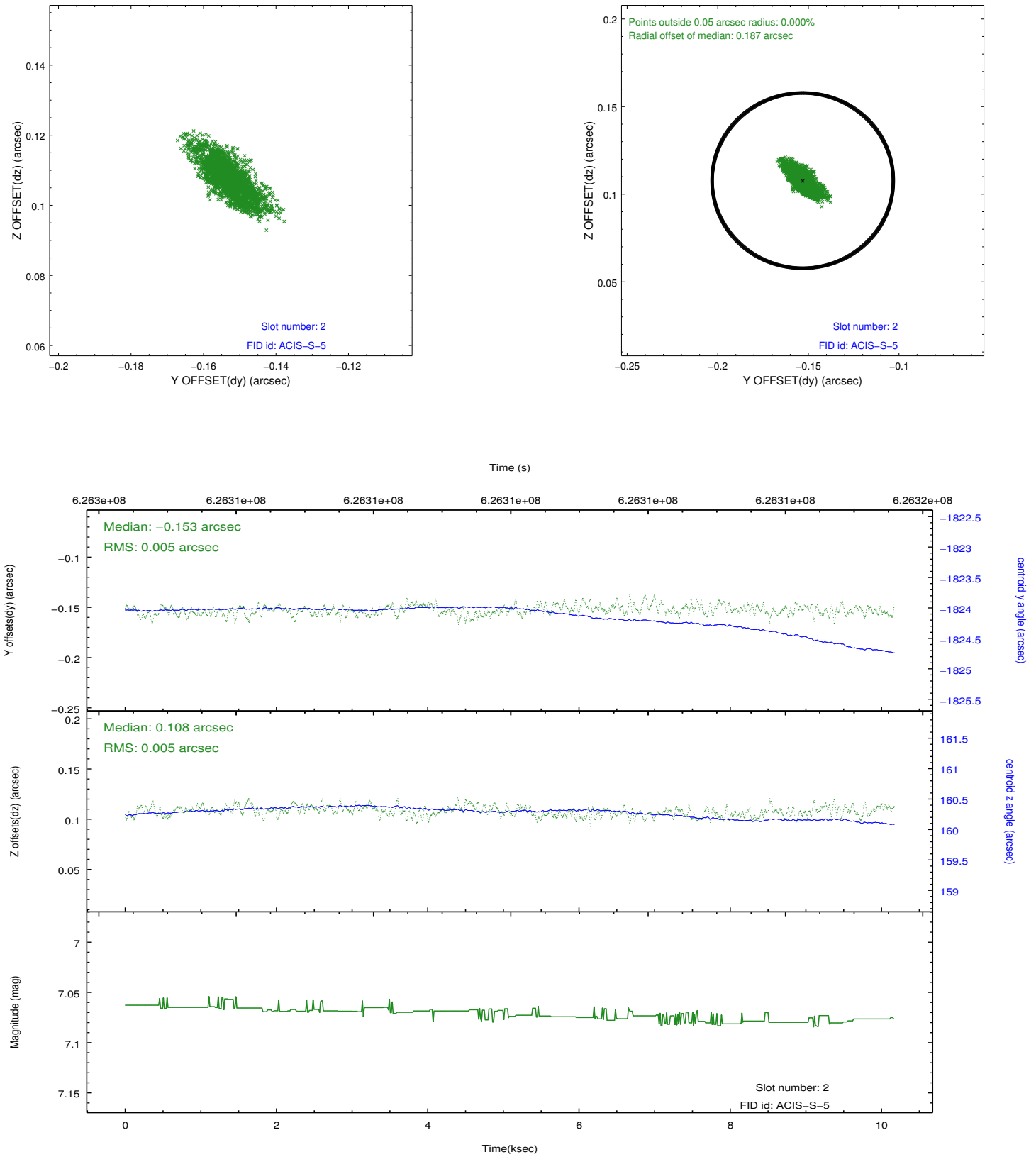
2.5.1 Slot 0



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)	2017.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.059999400377

A.2 Comments