

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18250 - L2 Version 1
Chandra X-Ray Center

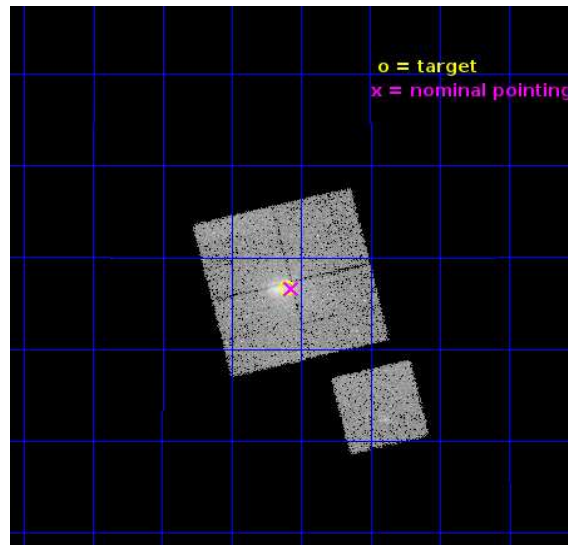
L2 Processing Date : Apr 27 2016

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1 Front

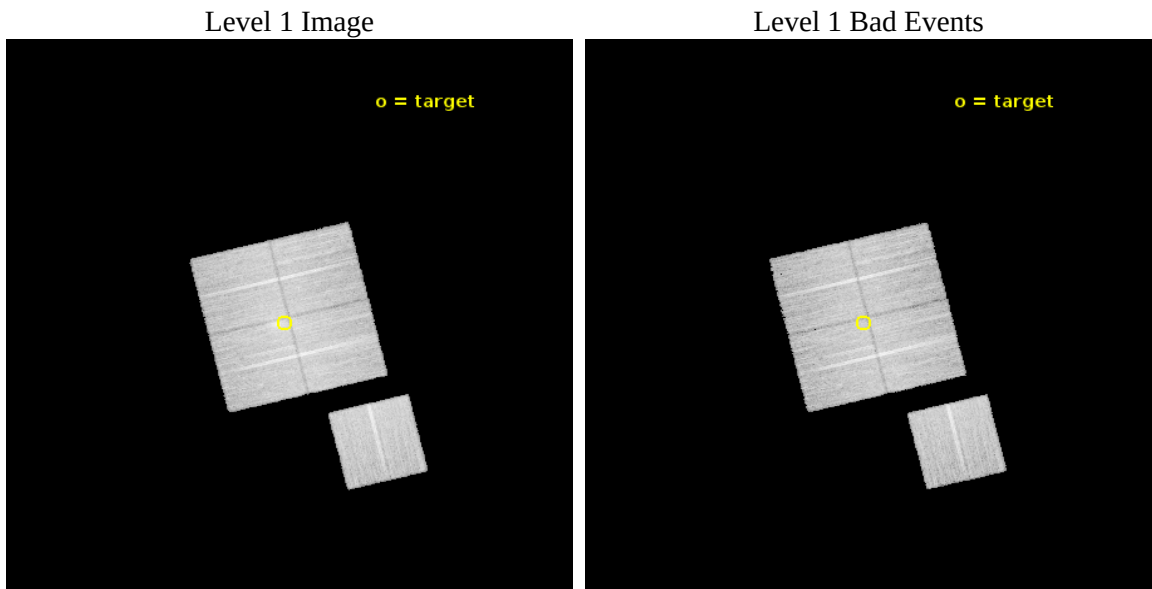
seq_num	801574	Sequence number
obs_id	18250	Observation id
title	X-ray/dynamical masses with the complete CHeCS sample	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	A1978	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	222.775	Observer's specified target RA [deg]
dec_targ	14.611	Observer's specified target Dec [deg]
ra_nom	222.76752937155	Nominal RA [deg]
dec_nom	14.610080512018	Nominal Dec [deg]
roll_nom	166.21057694274	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20074.196887732	Sum of GTIs [s]
livetime	19811.912726985	Livetime [s]
ontime0	20070.932747841	Sum of GTIs [s]
ontime1	20074.114847898	Sum of GTIs [s]
ontime2	20067.873787642	Sum of GTIs [s]
ontime3	20074.196887732	Sum of GTIs [s]
ontime6	20077.173778176	Sum of GTIs [s]
l2events	69121	Number of level 2 events



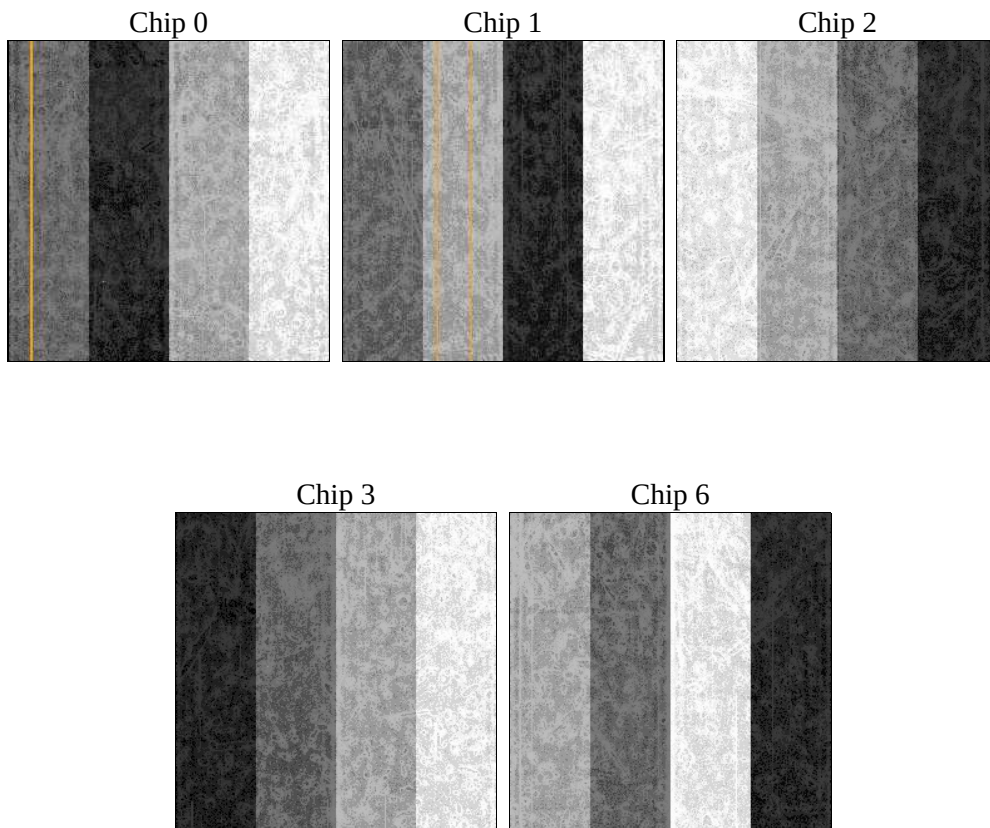
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	20074.196887732	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	20070.932747841	Sum of GTIs [s]
date	2016-04-27T04:56:16	Date and time of file creation	ontime1	20074.114847898	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20067.873787642	Sum of GTIs [s]
			ontime3	20074.196887732	Sum of GTIs [s]
			ontime6	20077.173778176	Sum of GTIs [s]
			l1events	599659	Number of level 1 events

2.1.4 Events

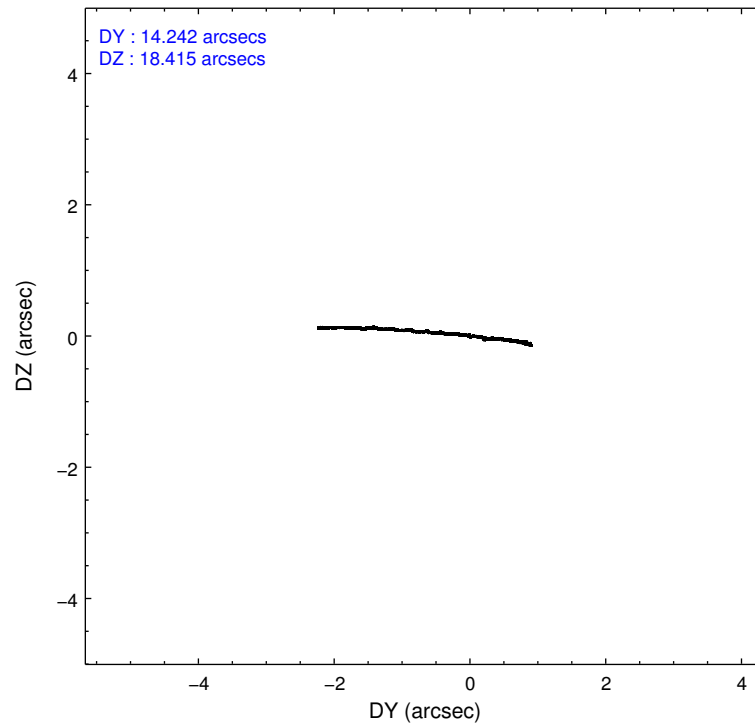
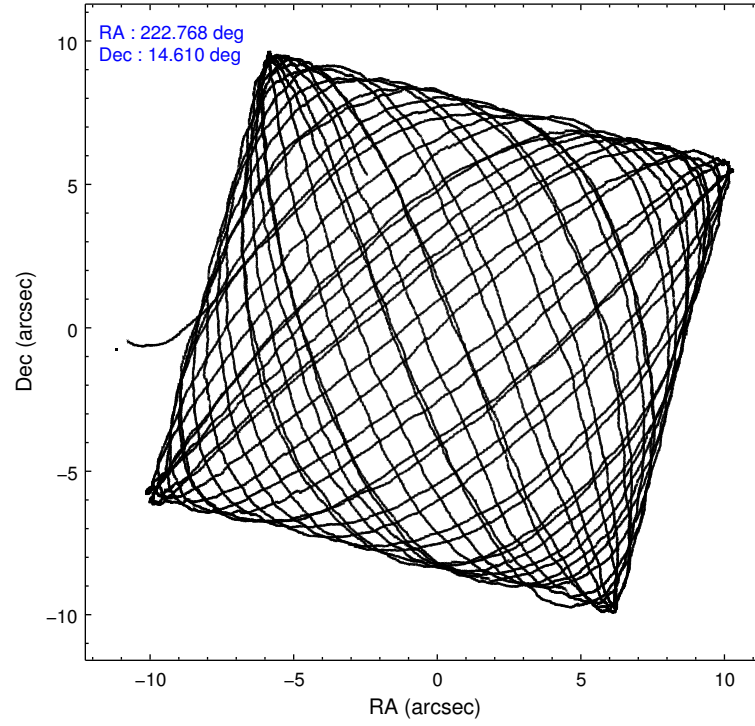
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	113791	114175	125900	124020	121773
rejected events	99078	96878	110282	105207	107712
rejected %	87%	84%	87%	84%	88%

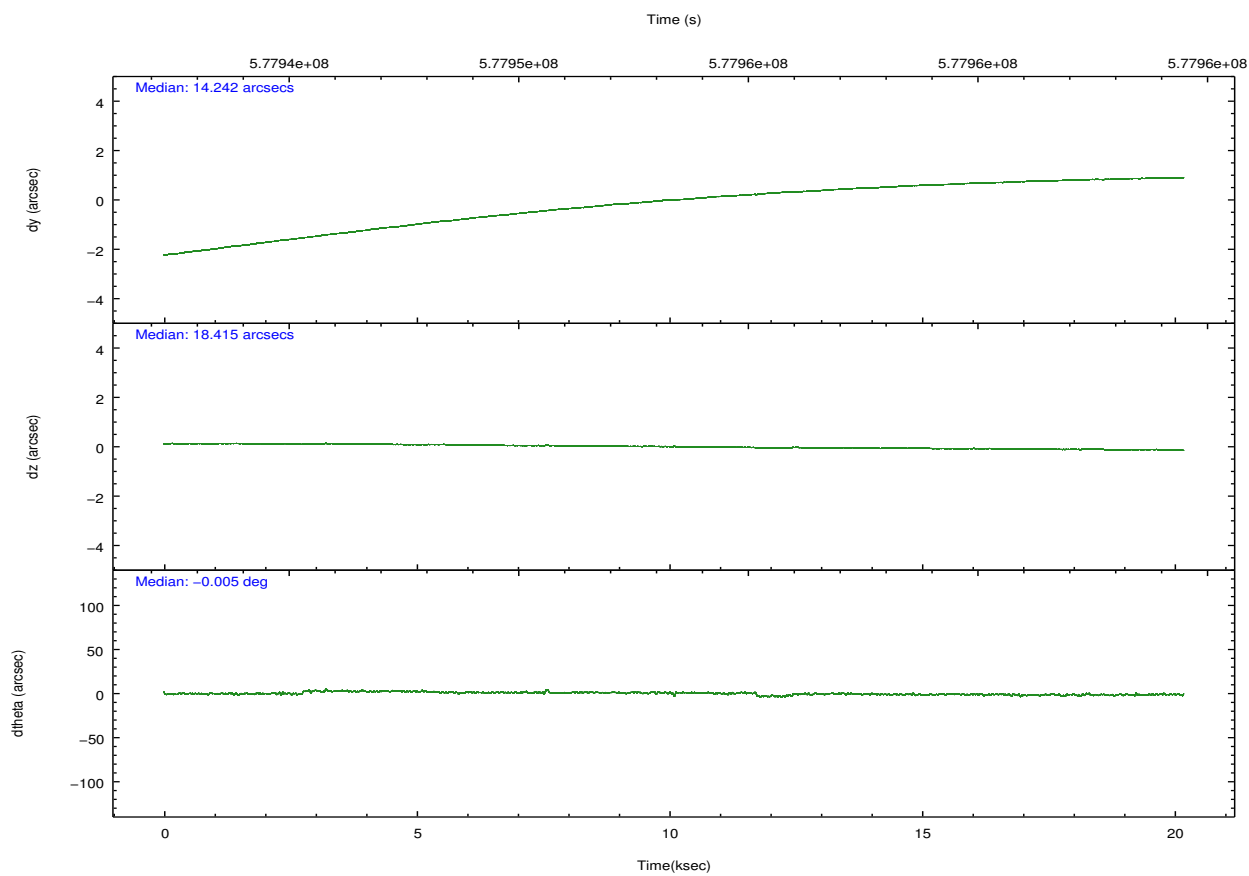
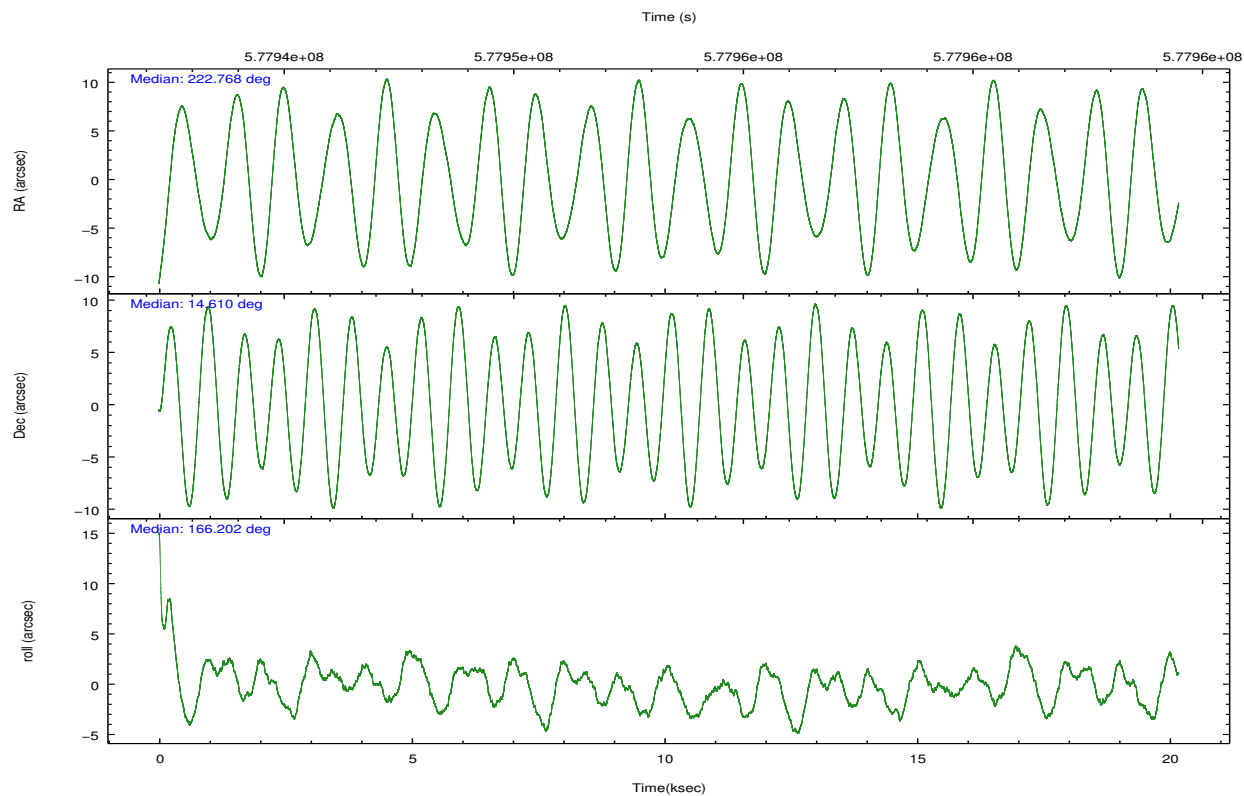
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5455	6862	6527	9283	4871
	4%	6%	5%	7%	4%
grade 1 events	57	69	73	98	62
	0%	0%	0%	0%	0%
grade 2 events	3463	3960	3442	3521	3219
	3%	3%	2%	2%	2%
grade 3 events	1455	1553	1433	1562	1440
	1%	1%	1%	1%	1%
grade 4 events	1403	1527	1469	1581	1325
	1%	1%	1%	1%	1%
grade 5 events	5374	5785	5144	6097	5799
	4%	5%	4%	4%	4%
grade 6 events	2939	3398	2749	2868	3208
	2%	2%	2%	2%	2%
grade 7 events	93645	91021	105063	99010	101849
	82%	79%	83%	79%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	222.794905	222.7675293715524	CCD I2 on	Y	Y
[deg] Pointing Dec	14.617857	14.61008051201791	CCD I3 on	Y	Y
[deg] Pointing Roll	165.994976	166.2105769427372	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	577943461.184000	577942400.2046	CCD S5 on	N	N
Observation start date	2016-04-25T03:49:53	2016-04-25T03:33:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	577963461.184000	577963964.15583	On-chip summing requested	N	N
Observation end date	2016-04-25T09:23:13	2016-04-25T09:32:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



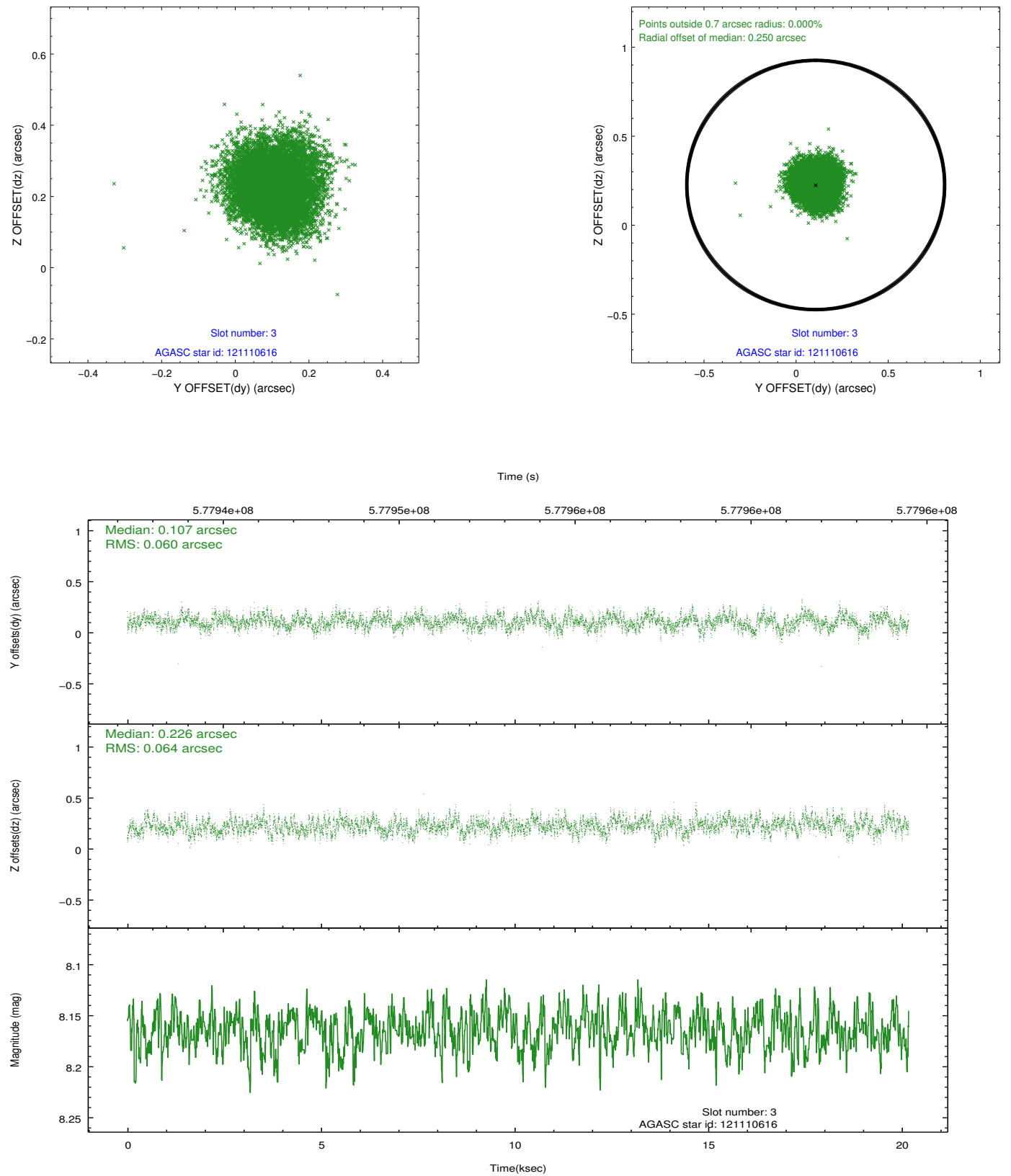


Slot Statistics

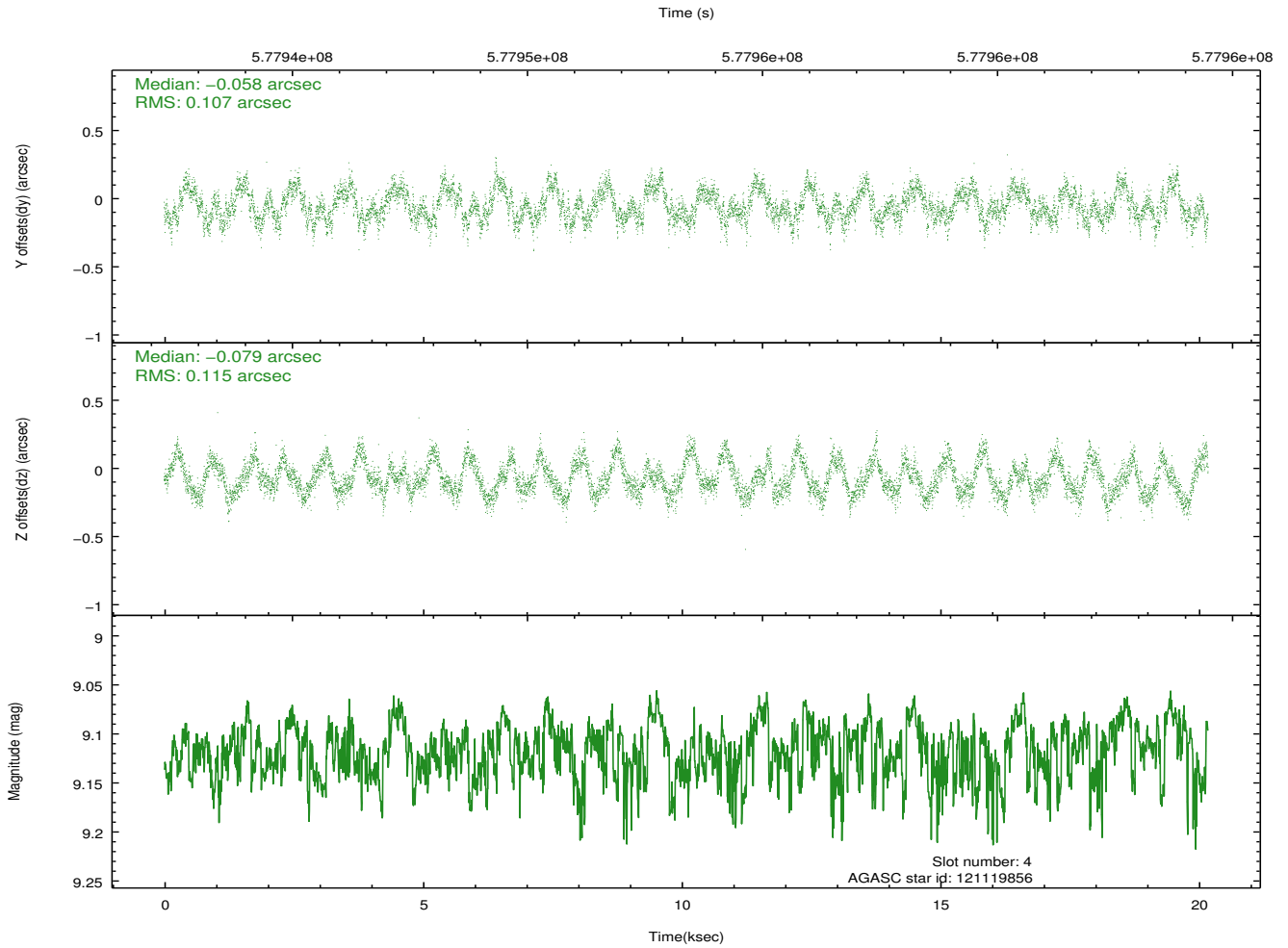
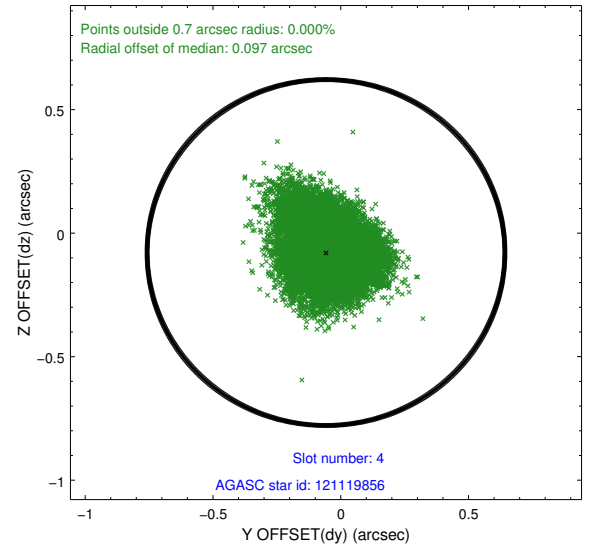
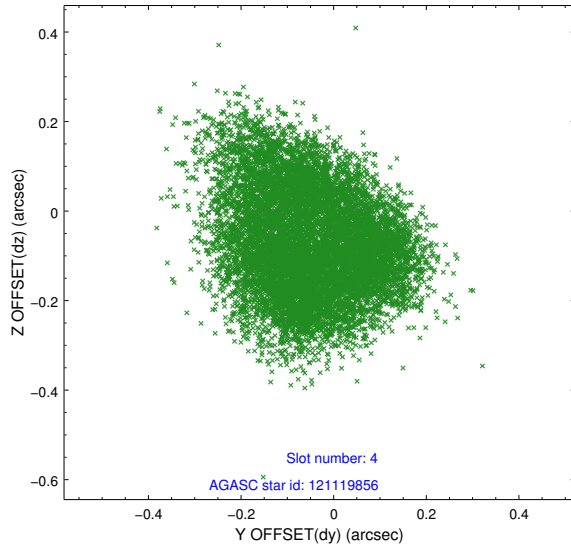
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	4922	-0.041	-0.026	0.014	0.041	0.000000	0.000000	925.48	-842.10
1	FID		ACIS-I-4	7.19	4921	0.361	0.061	0.012	0.050	0.000000	0.000000	2145.94	1057.76
2	FID		ACIS-I-5	7.25	4922	-0.417	0.036	0.015	0.044	0.000000	0.000000	-1822.74	1055.62
3	GUIDE	used	121110616	8.16	9845	0.107	0.226	0.094	0.148	222.891696	14.764169	-200.92	-590.80
4	GUIDE	used	121119856	9.12	9839	-0.058	-0.079	0.169	0.253	223.187249	13.961512	-1901.76	1961.28
5	GUIDE	used	193727776	8.58	9840	-0.103	-0.052	0.130	0.210	222.640308	15.008672	862.21	-1234.52
6	GUIDE	used	193730600	7.42	9846	0.047	0.267	0.091	0.146	223.235299	15.132354	-1035.18	-2168.17
7	GUIDE	used	121113088	9.20	9840	-0.008	-0.365	0.118	0.192	222.684381	13.961237	-198.14	2386.89

2.4 Star Slots

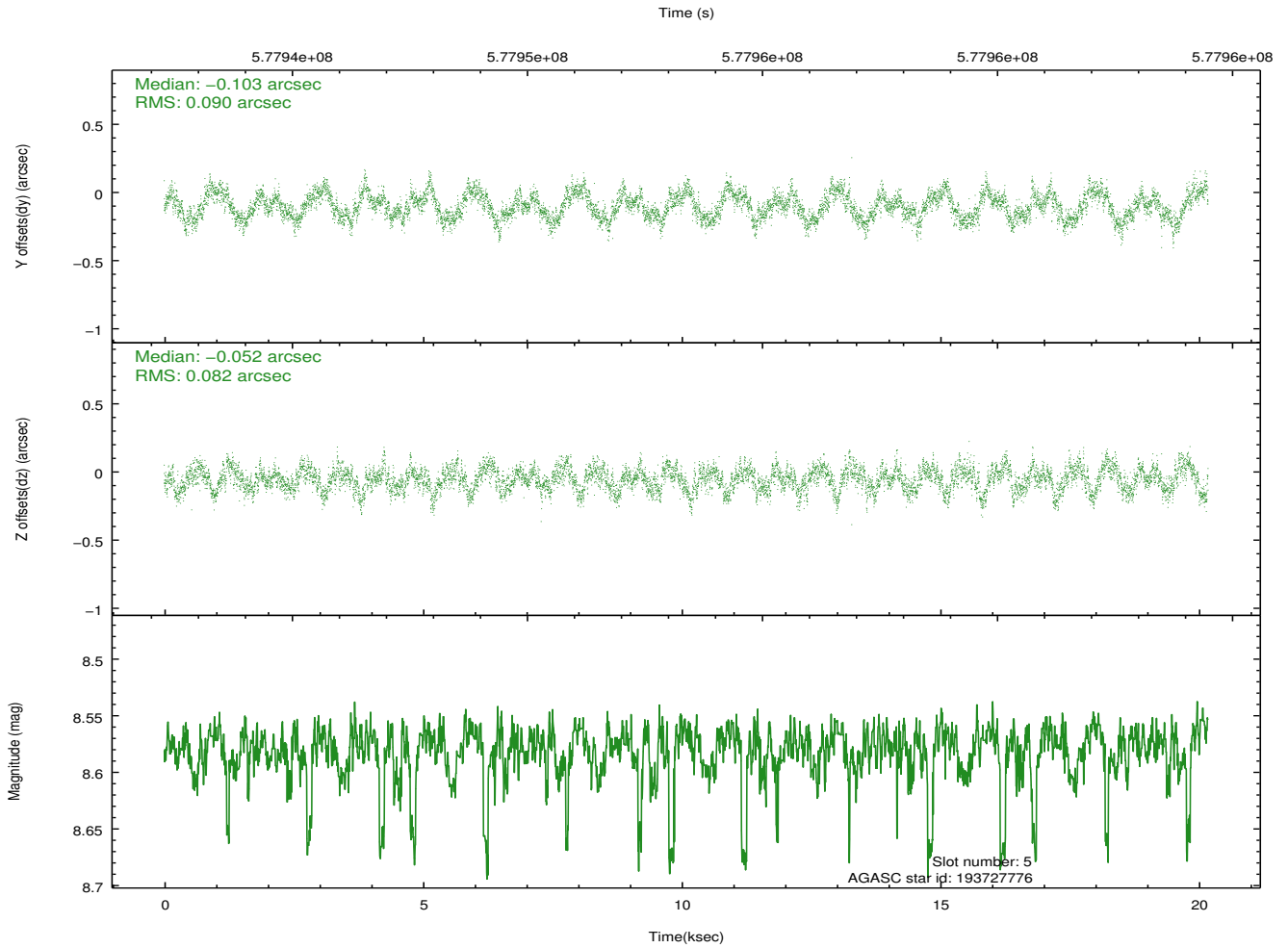
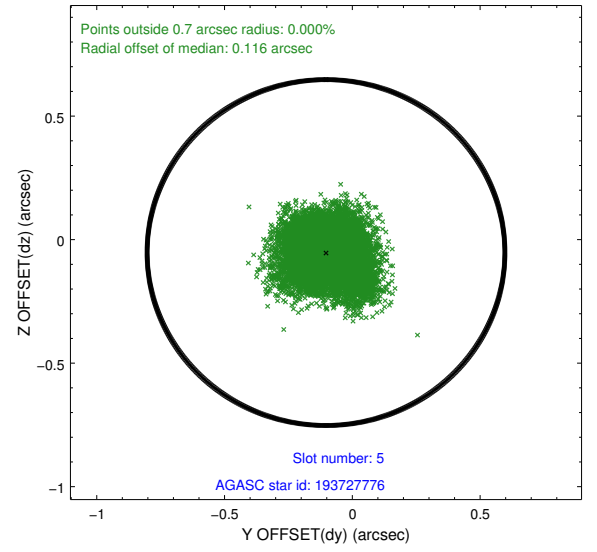
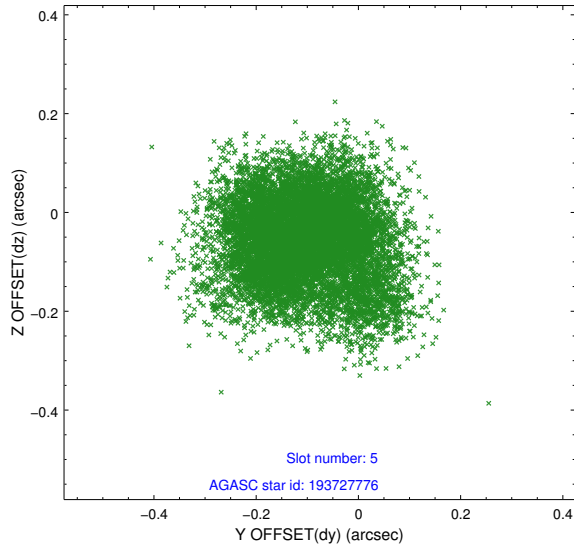
2.4.1 Slot 3



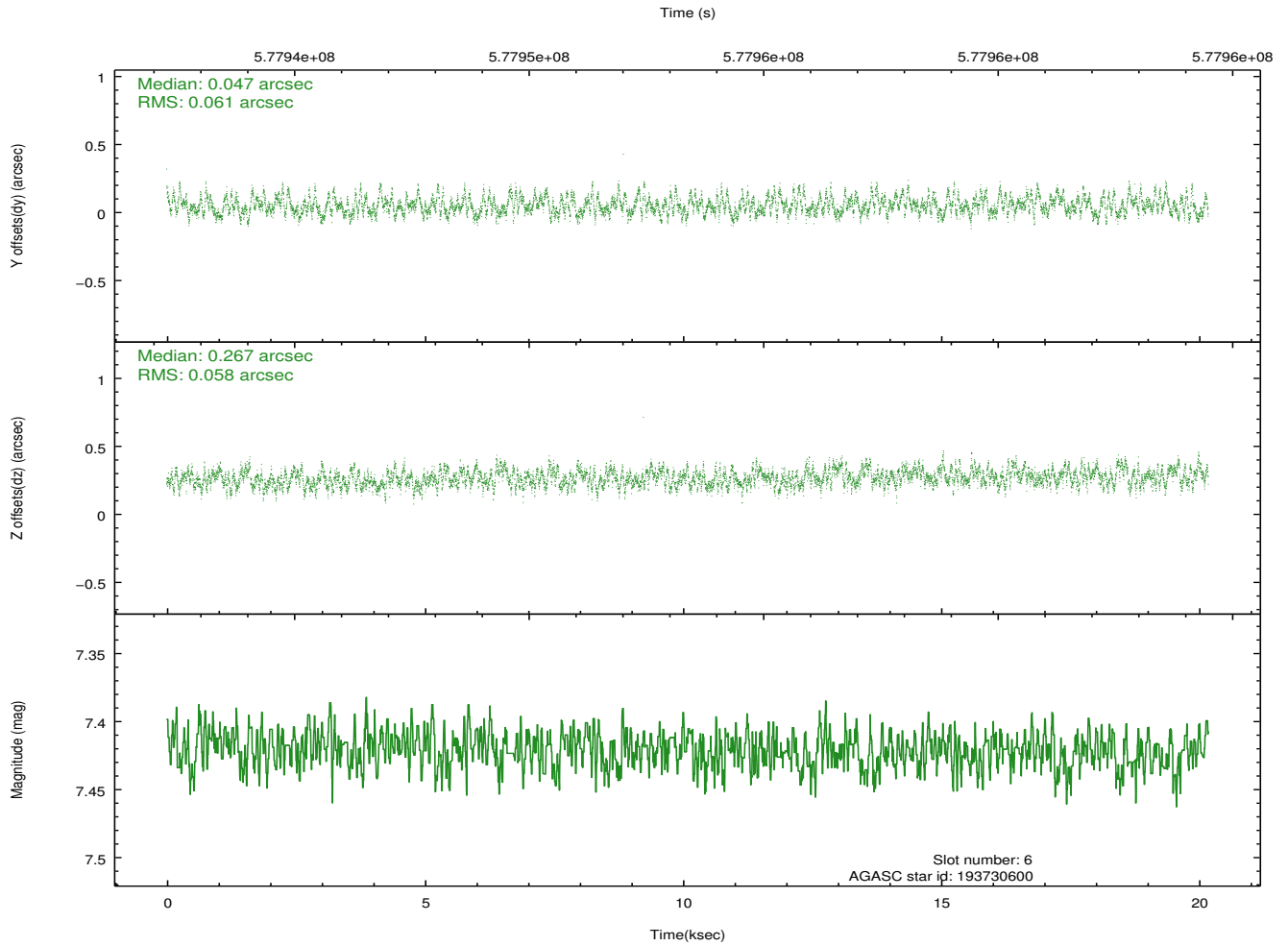
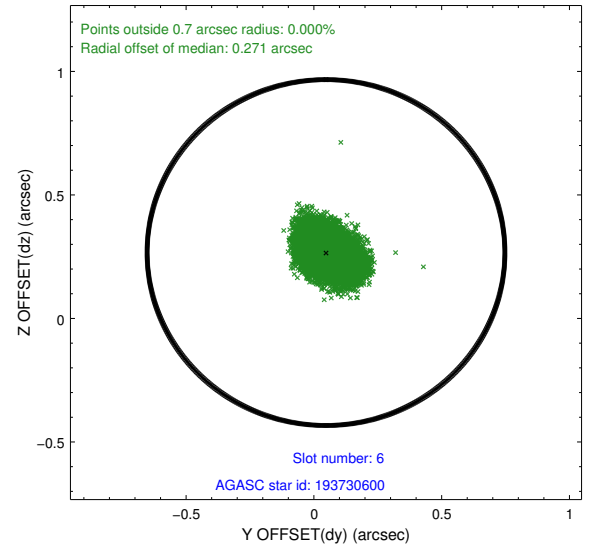
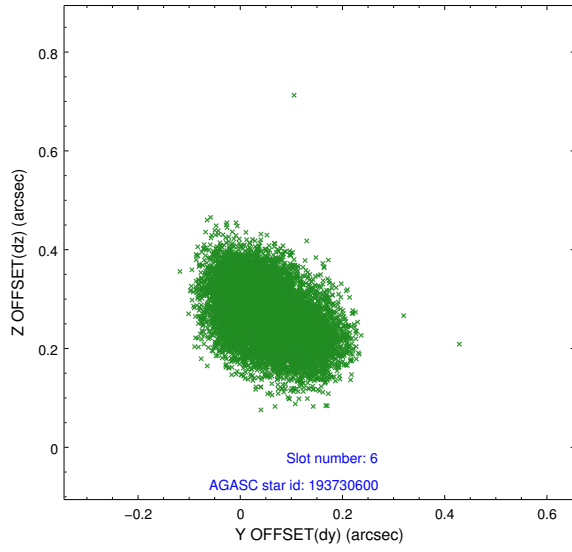
2.4.2 Slot 4



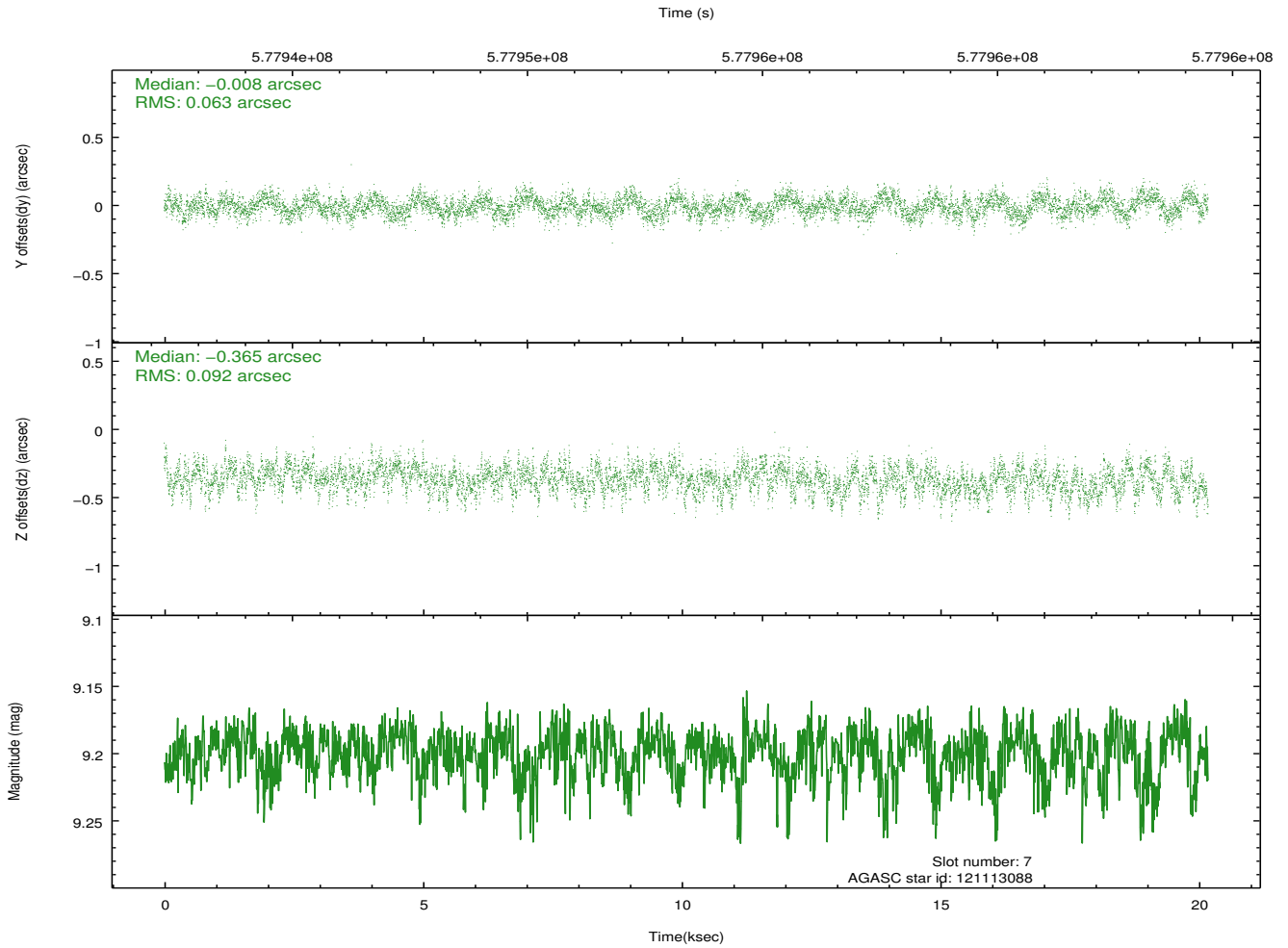
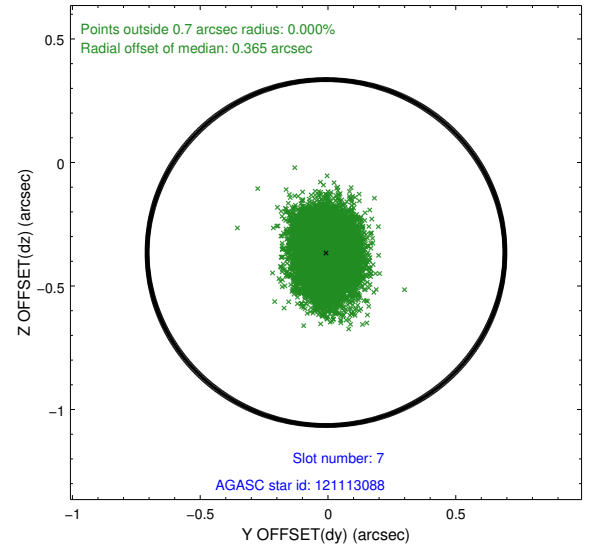
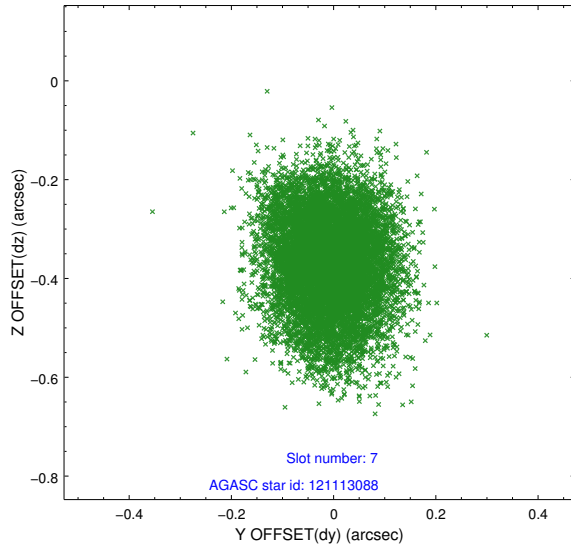
2.4.3 Slot 5



2.4.4 Slot 6

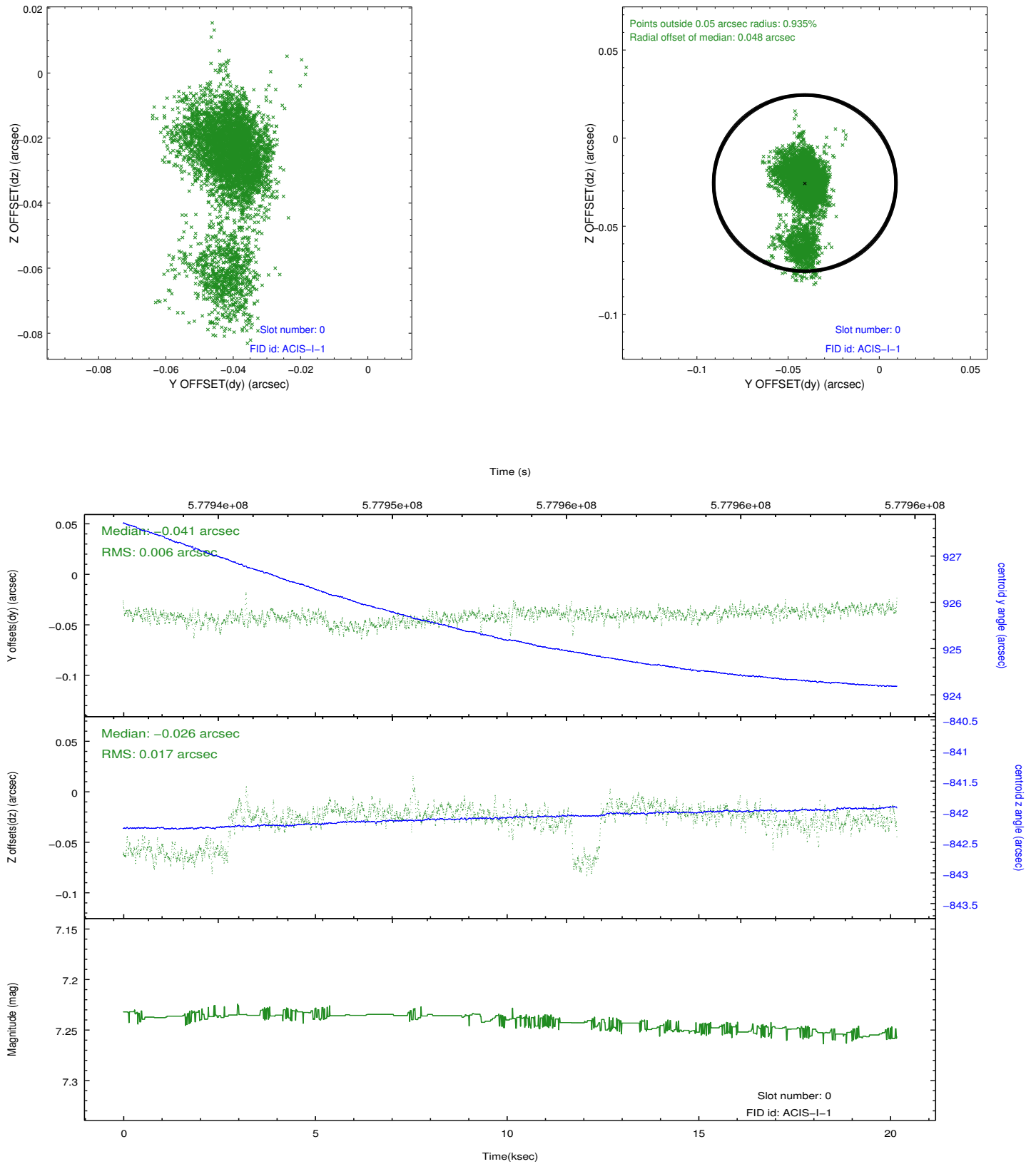


2.4.5 Slot 7

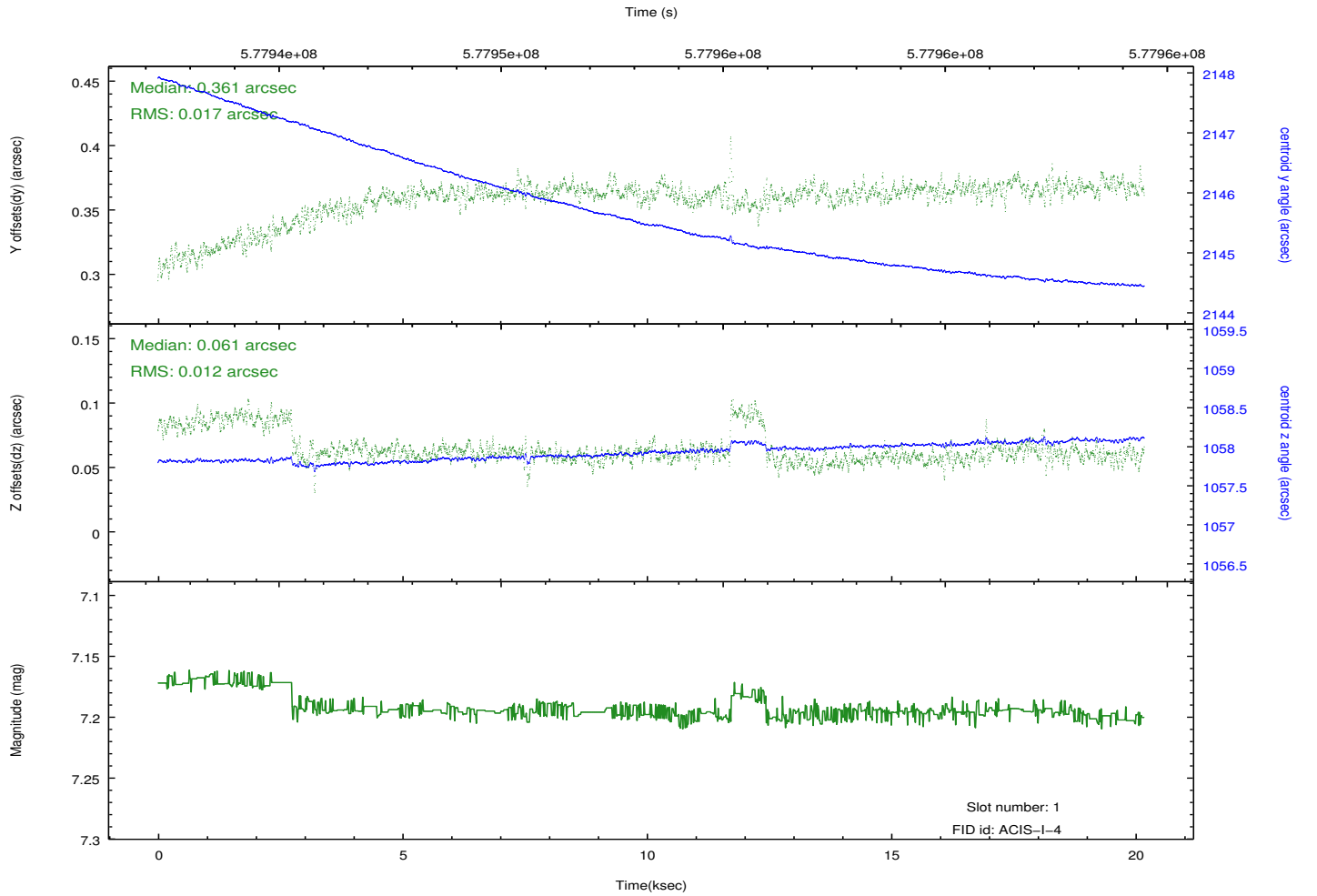
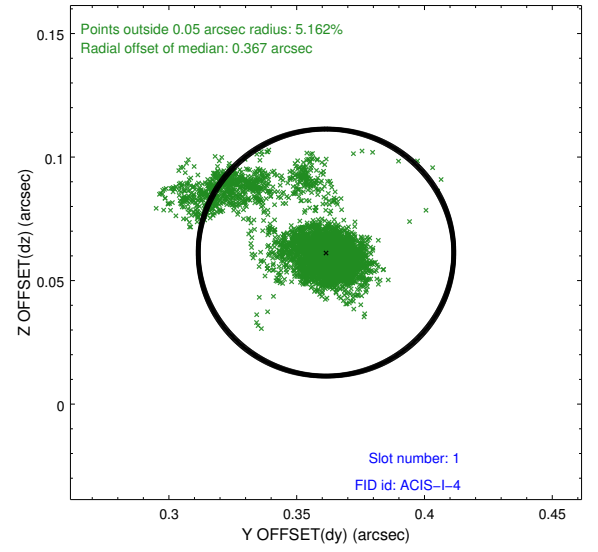
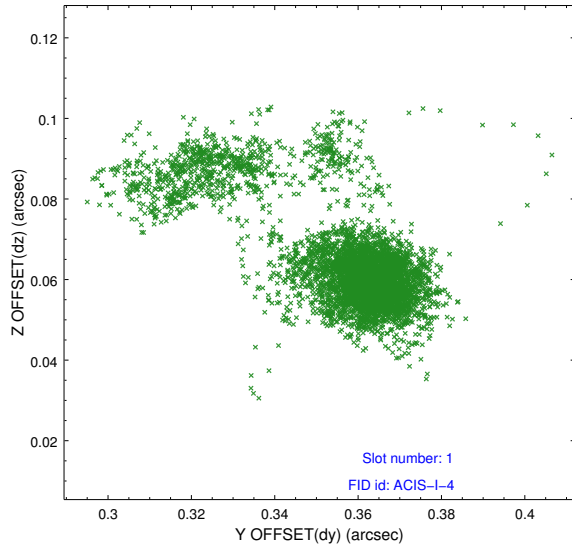


2.5 FID Slots

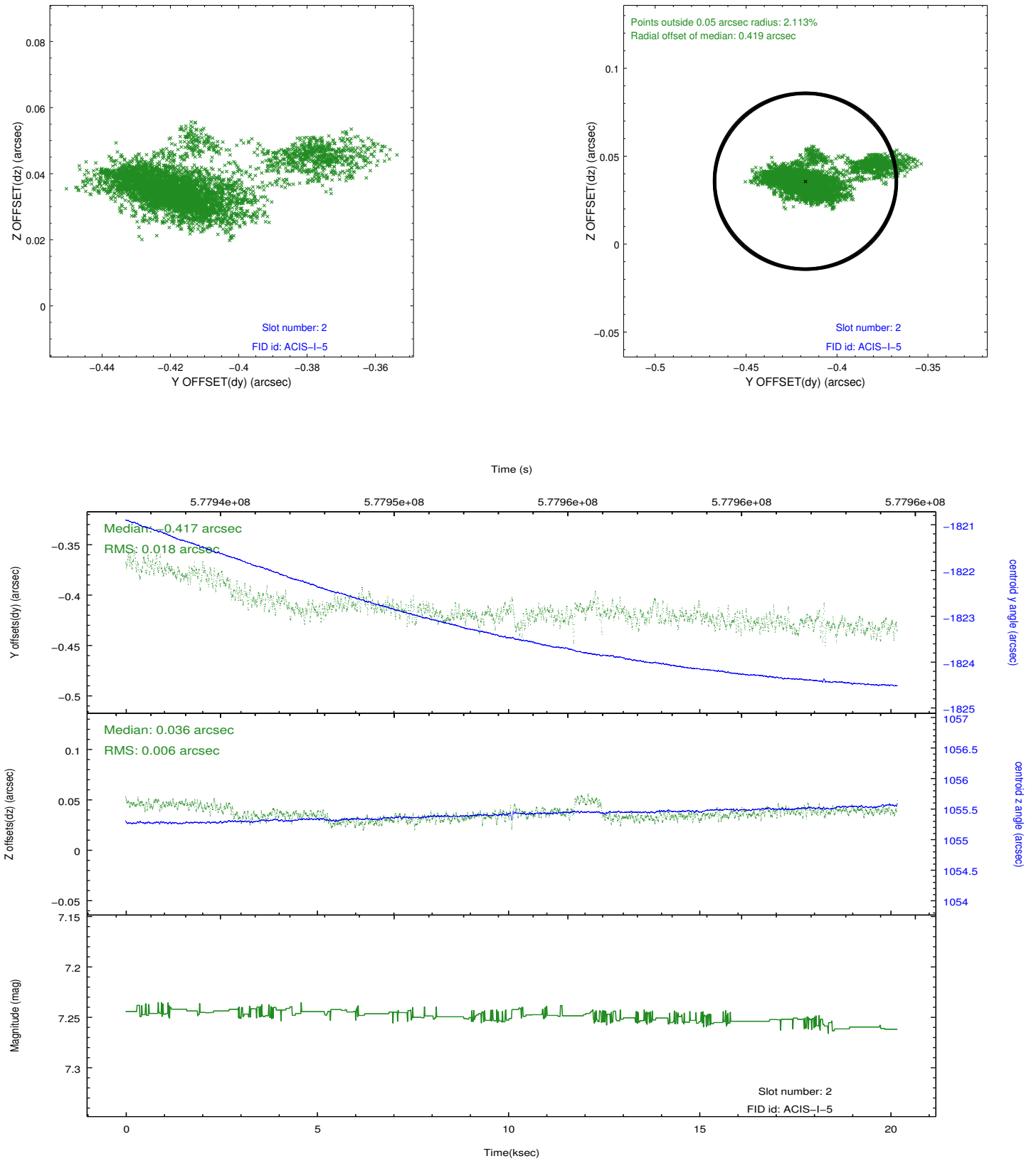
2.5.1 Slot 0



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)	2016.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.074196887732

A.2 Comments