

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18784 - L2 Version 1
Chandra X-Ray Center

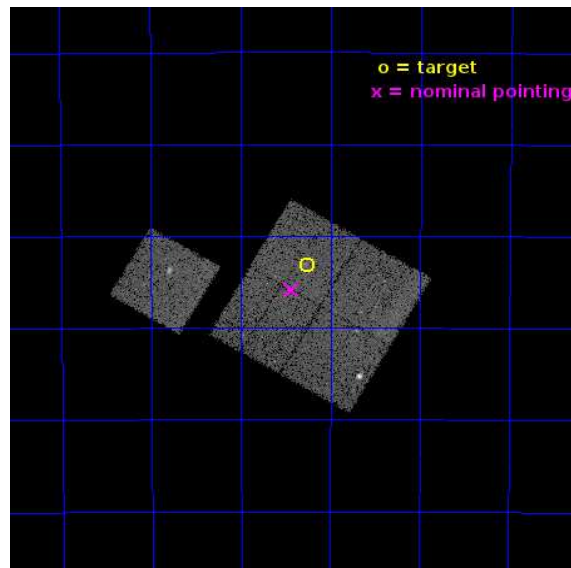
L2 Processing Date : Mar 1 2016

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1 Front

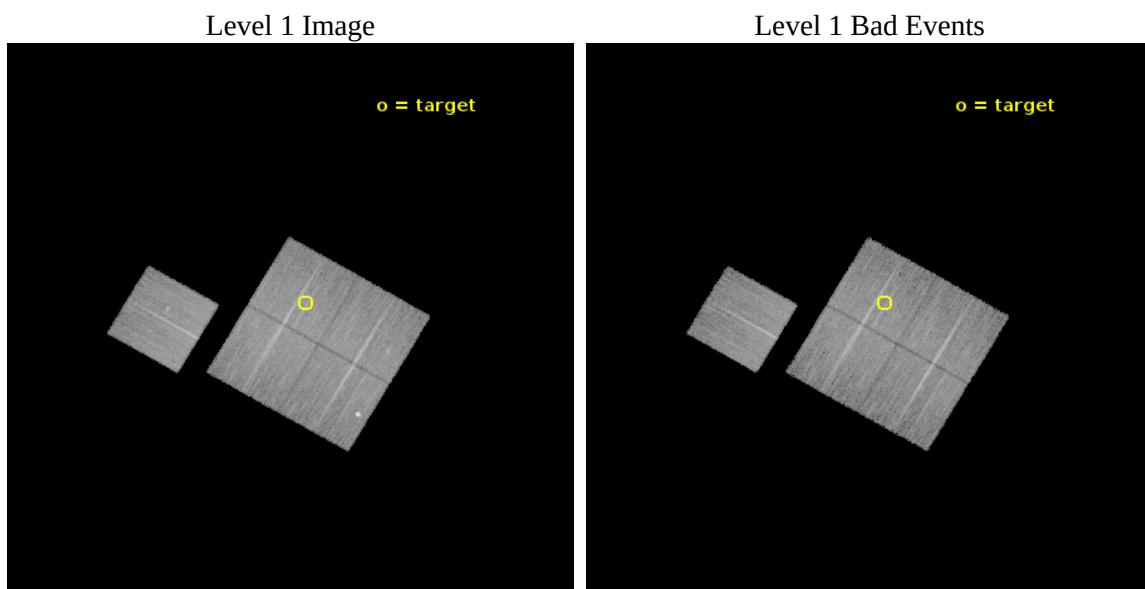
seq_num	801489	Sequence number
obs_id	18784	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Dr Michael McDonald	Principal investigator
object	SPT-CLJ0640-5113	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.065	Observer's specified target RA [deg]
dec_targ	-51.220389	Observer's specified target Dec [deg]
ra_nom	100.10891284214	Nominal RA [deg]
dec_nom	-51.264297978809	Nominal Dec [deg]
roll_nom	300.24292838549	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19570.300150633	Sum of GTIs [s]
livetime	19314.599771719	Livetime [s]
ontime0	19567.159140468	Sum of GTIs [s]
ontime1	19570.300150633	Sum of GTIs [s]
ontime2	19567.159160376	Sum of GTIs [s]
ontime3	19570.300150633	Sum of GTIs [s]
ontime6	19567.159150362	Sum of GTIs [s]
l2events	60140	Number of level 2 events



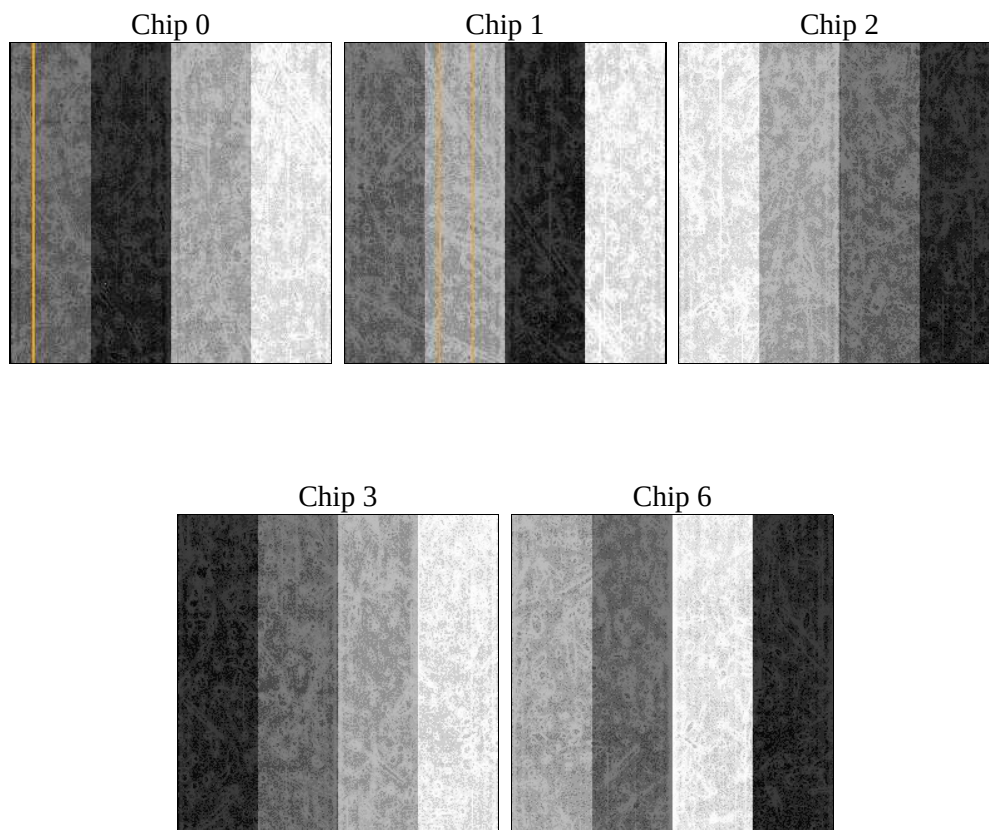
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	19570.300150633	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	19567.159140468	Sum of GTIs [s]
date	2016-03-01T05:53:41	Date and time of file creation	ontime1	19570.300150633	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19567.159160376	Sum of GTIs [s]
			ontime3	19570.300150633	Sum of GTIs [s]
			ontime6	19567.159150362	Sum of GTIs [s]
			l1events	564132	Number of level 1 events

2.1.4 Events

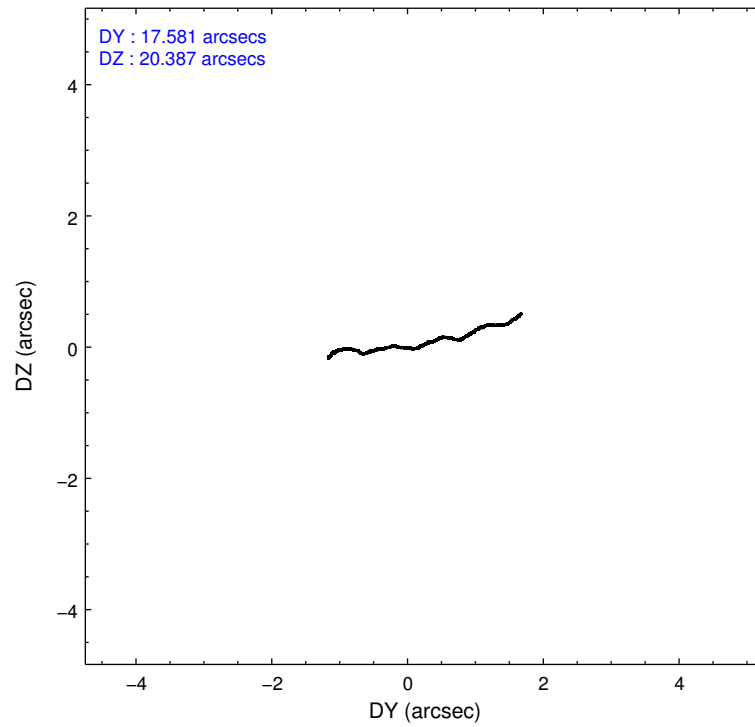
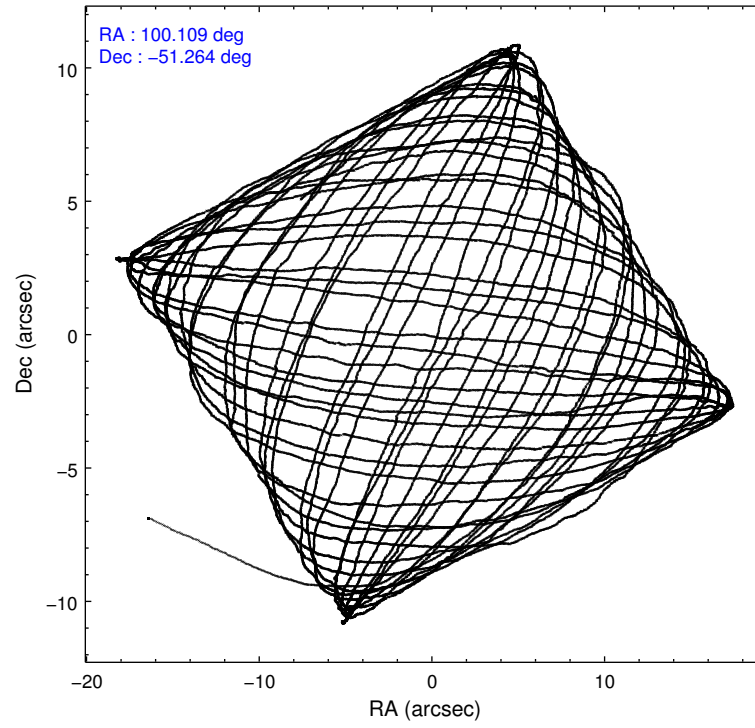
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	108265	111343	116849	111701	115974
rejected events	91135	96494	104009	99315	102175
rejected %	84%	86%	89%	88%	88%

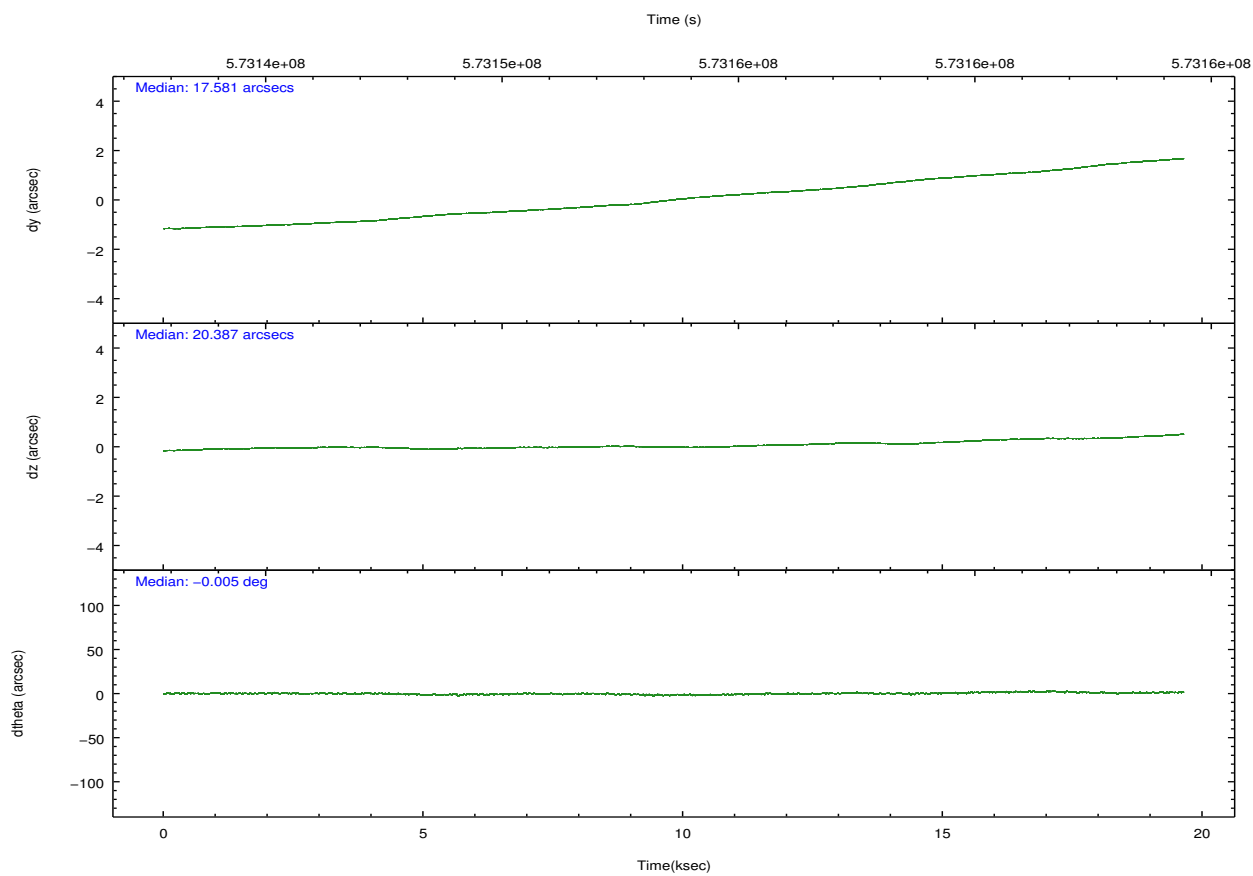
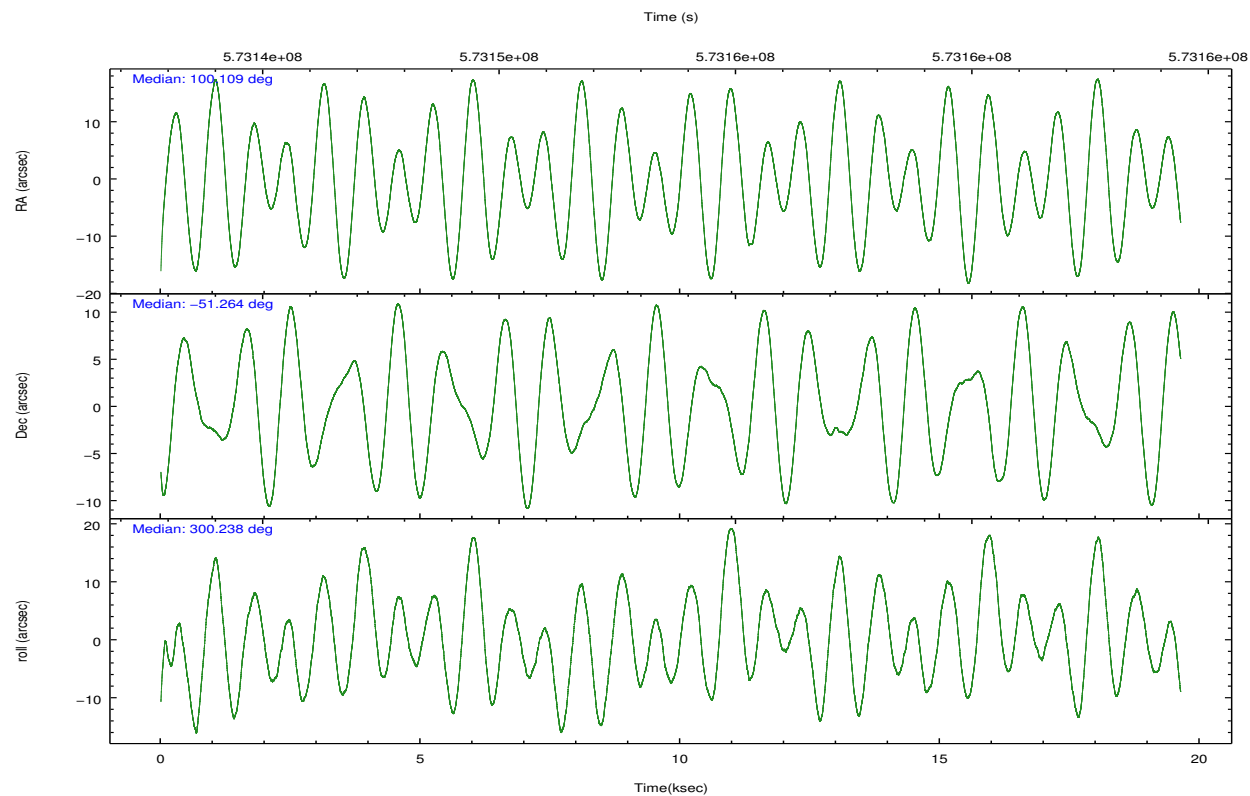
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7659	5159	4603	4393	4760
	7%	4%	3%	3%	4%
grade 1 events	70	69	65	64	58
	0%	0%	0%	0%	0%
grade 2 events	3827	3693	3155	2729	3153
	3%	3%	2%	2%	2%
grade 3 events	1489	1413	1287	1396	1337
	1%	1%	1%	1%	1%
grade 4 events	1387	1391	1269	1278	1413
	1%	1%	1%	1%	1%
grade 5 events	5146	5300	4916	5804	5390
	4%	4%	4%	5%	4%
grade 6 events	2769	3194	2527	2591	3139
	2%	2%	2%	2%	2%
grade 7 events	85918	91124	99027	93446	96724
	79%	81%	84%	83%	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	100.070528	100.108912842137	CCD I2 on	Y	Y
[deg] Pointing Dec	-51.250697	-51.26429797880854	CCD I3 on	Y	Y
[deg] Pointing Roll	300.004303	300.2429283854941	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	573143954.184000	573142664.26991	CCD S5 on	N	N
Observation start date	2016-02-29T14:38:06	2016-02-29T14:17:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	573163454.184000	573164361.47114	On-chip summing requested	N	N
Observation end date	2016-02-29T20:03:06	2016-02-29T20:19:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



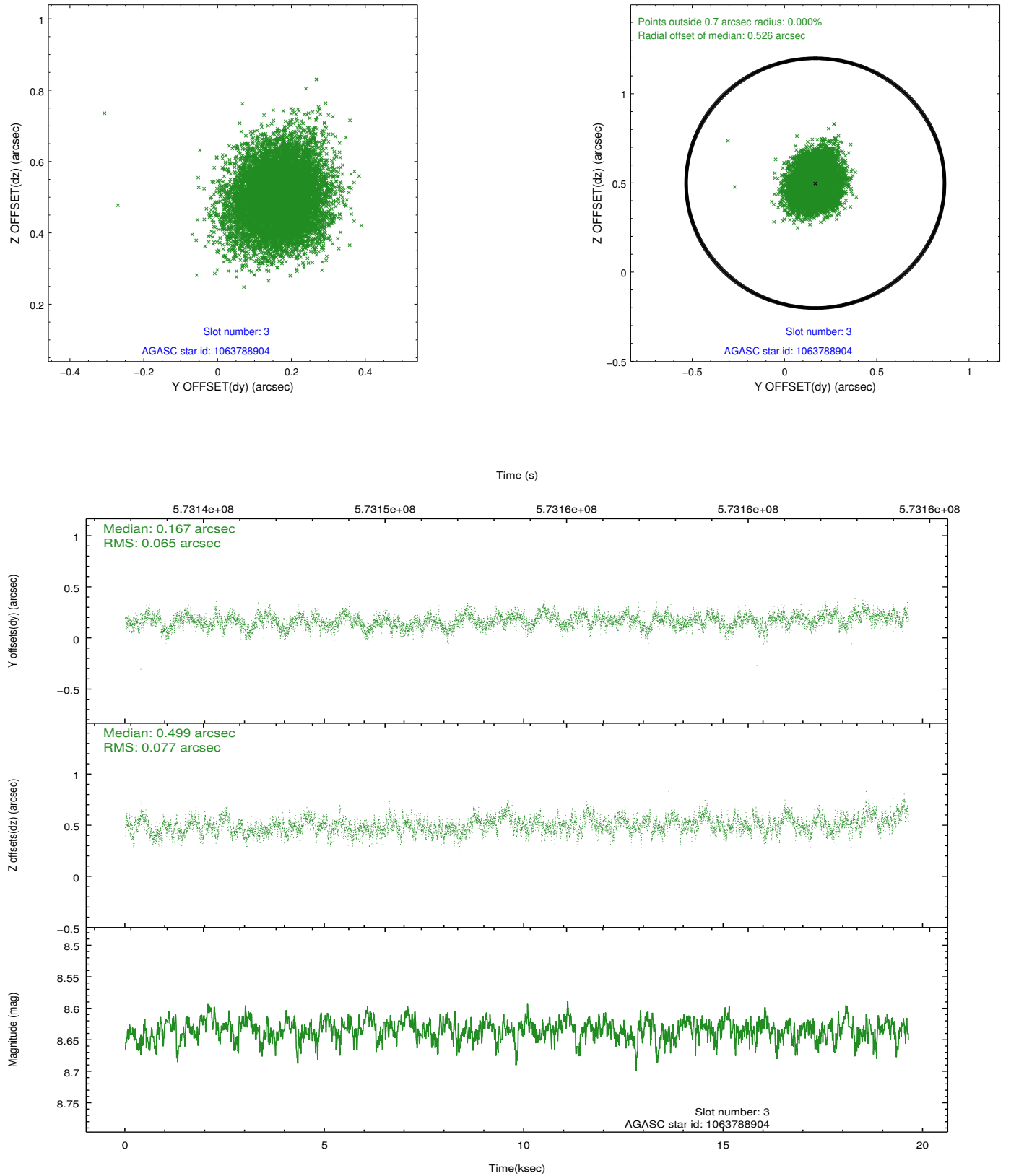


Slot Statistics

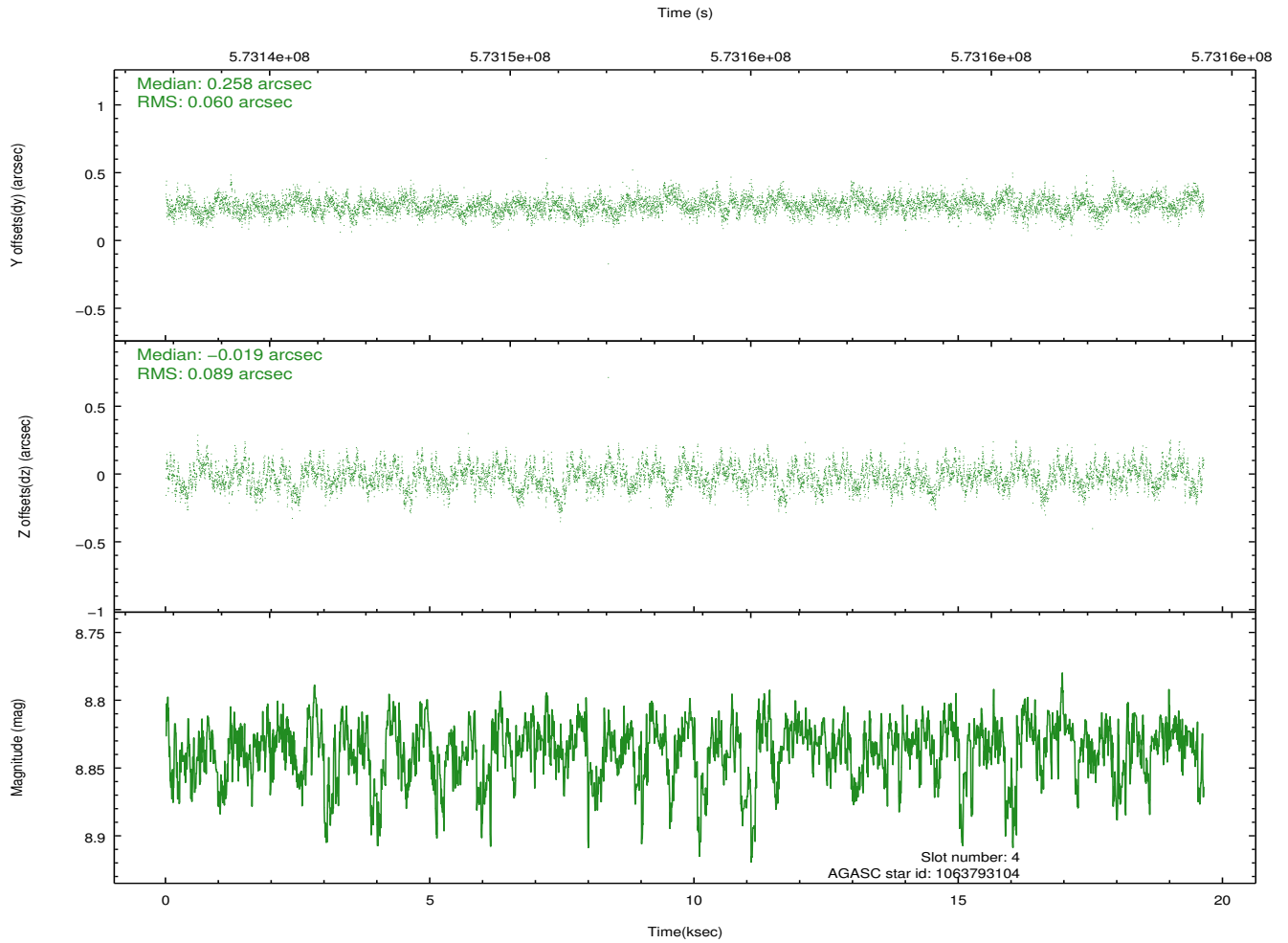
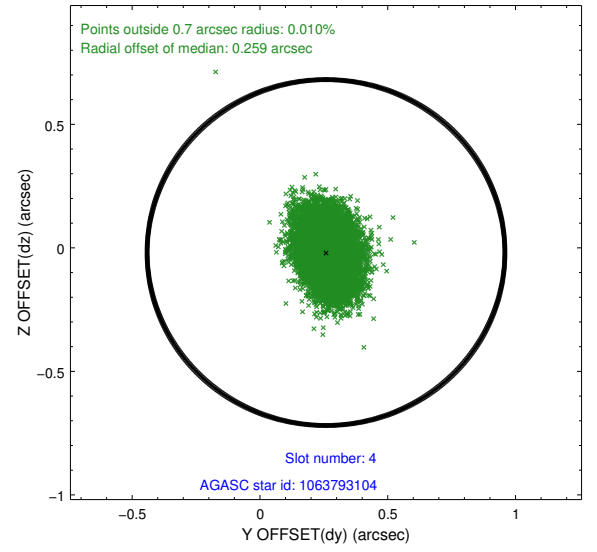
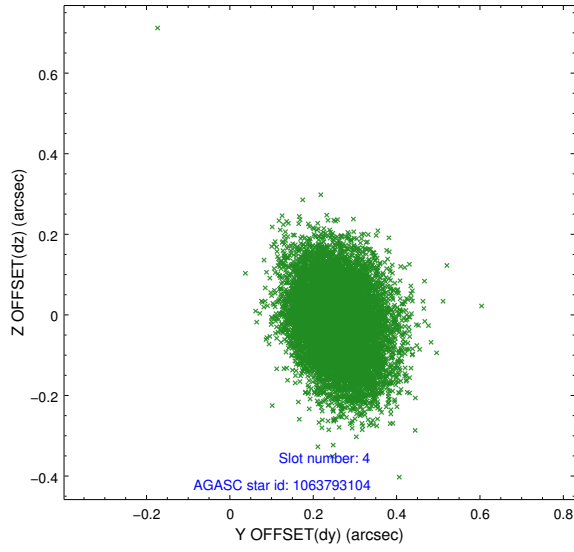
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	4789	0.182	-0.175	0.012	0.021	0.000000	0.000000	921.82	-1003.41
1	FID		ACIS-I-5	7.24	4789	-0.418	0.106	0.020	0.032	0.000000	0.000000	-1826.89	894.07
2	FID		ACIS-I-6	7.26	4790	0.147	0.141	0.014	0.024	0.000000	0.000000	386.98	1538.96
3	GUIDE	used	1063788904	8.63	9575	0.167	0.499	0.107	0.173	99.169777	-51.429850	-441.06	-2078.92
4	GUIDE	used	1063793104	8.84	9576	0.258	-0.019	0.113	0.190	99.814404	-50.932863	-1280.03	68.20
5	GUIDE	used	1063792392	9.16	9497	-0.153	-0.317	0.120	0.191	101.124908	-51.322233	1423.85	1916.82
6	GUIDE	used	1063790024	9.25	9570	-0.258	0.014	0.118	0.190	101.199616	-51.603650	2379.76	1541.63
7	GUIDE	used	1065487432	8.96	9573	-0.014	-0.184	0.117	0.184	101.314364	-51.570075	2407.92	1823.81

2.4 Star Slots

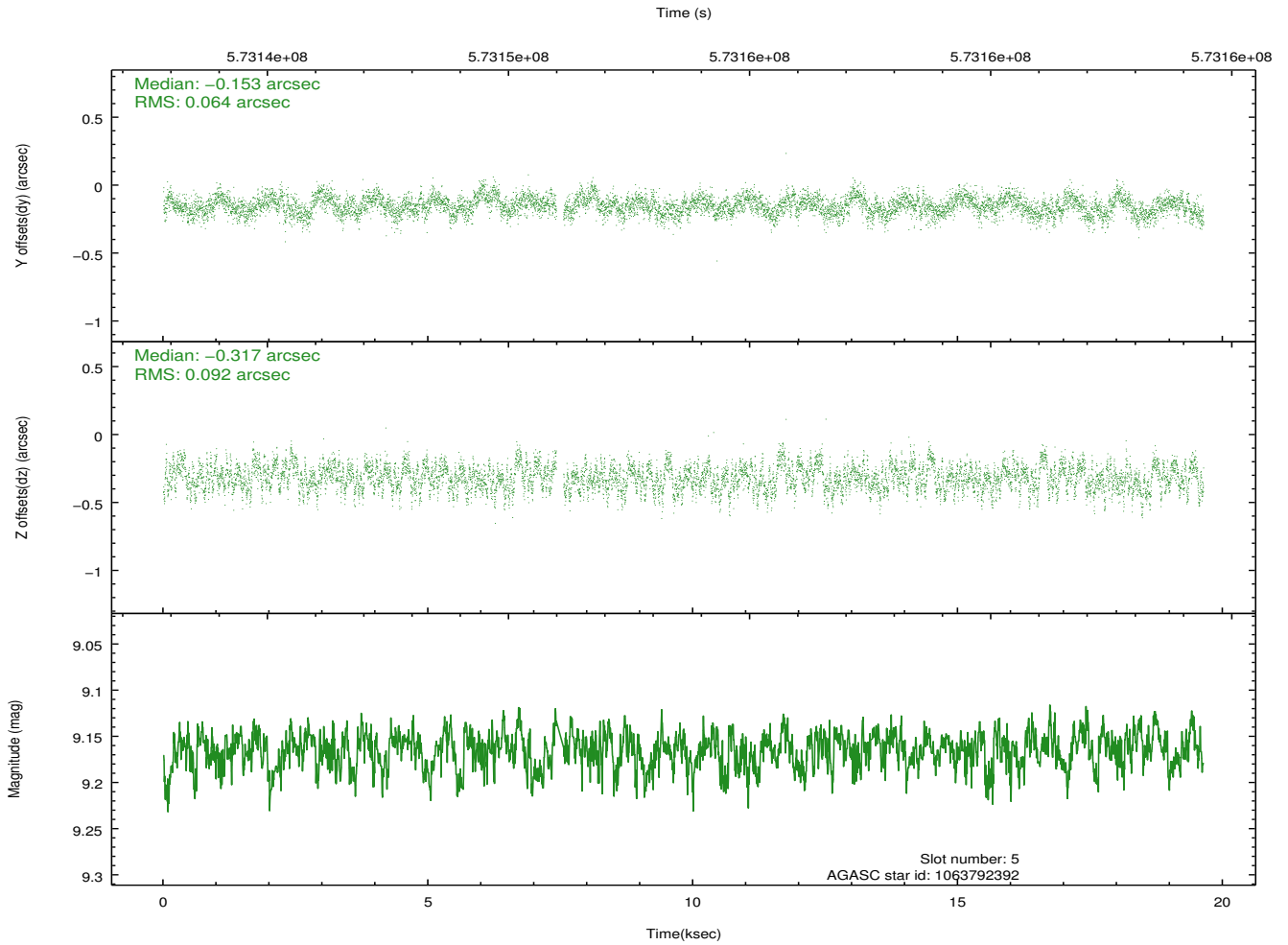
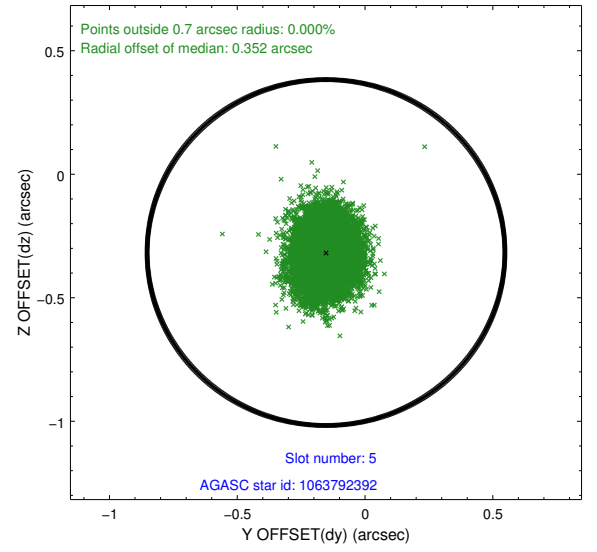
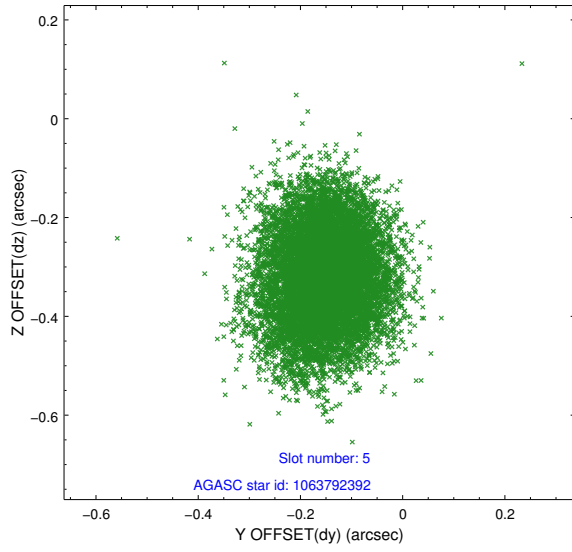
2.4.1 Slot 3



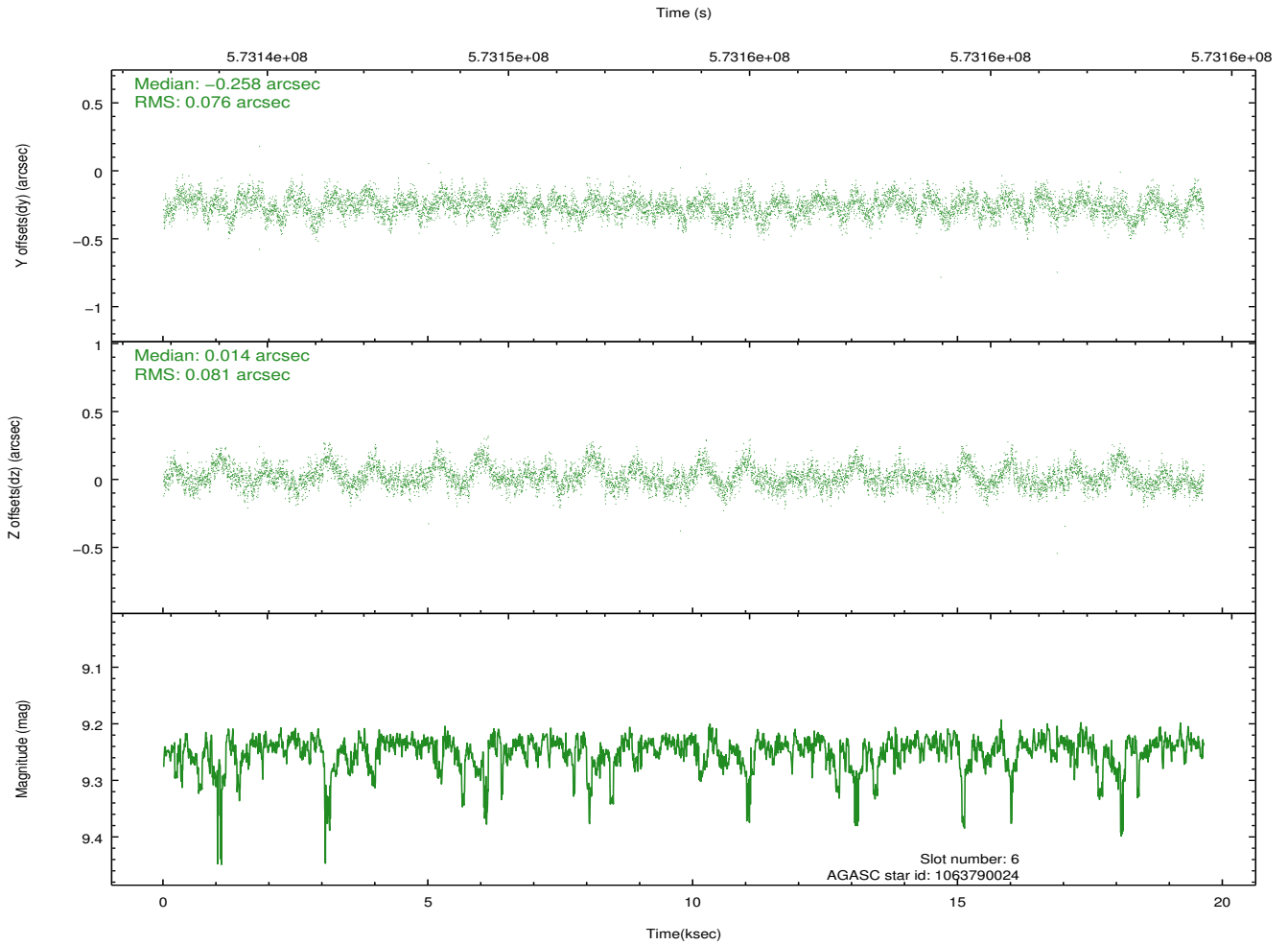
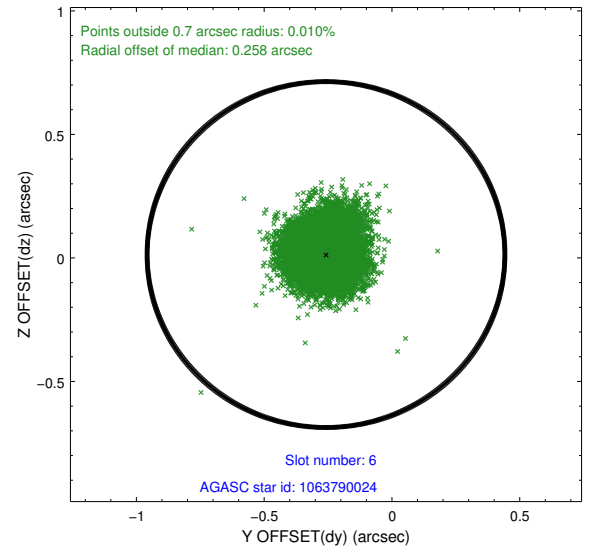
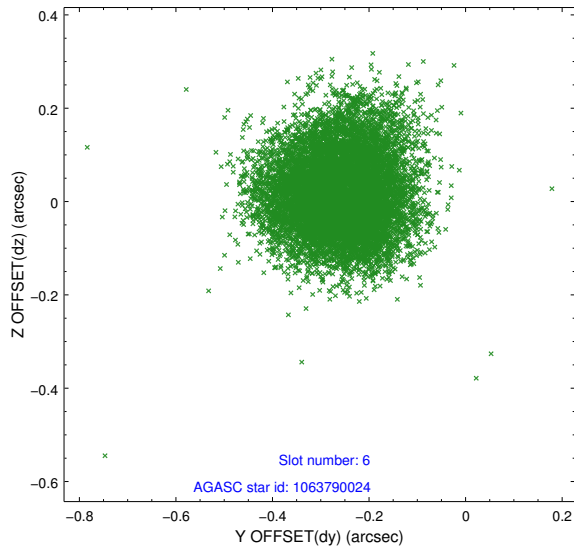
2.4.2 Slot 4



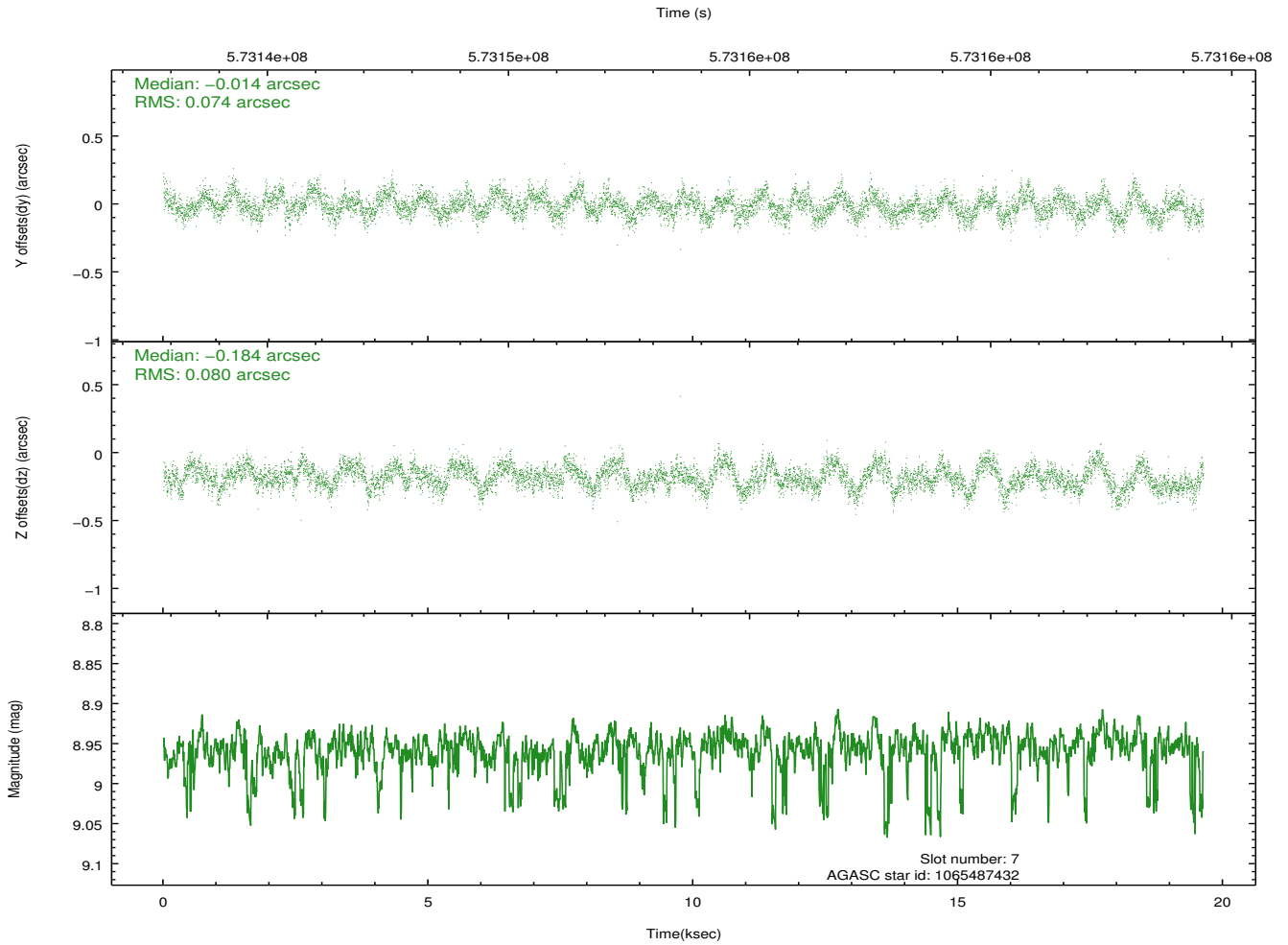
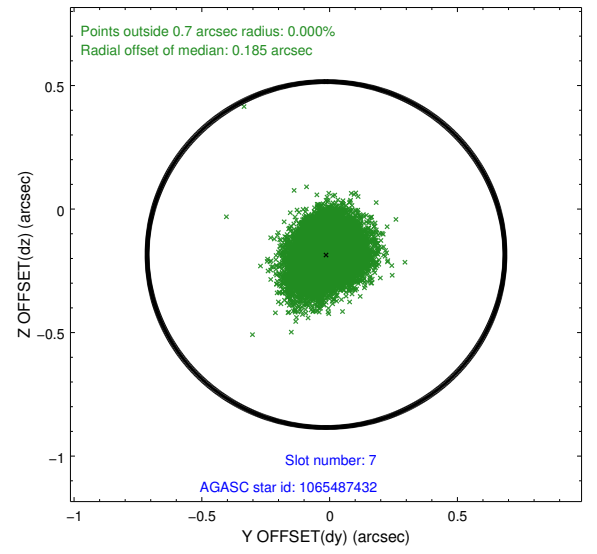
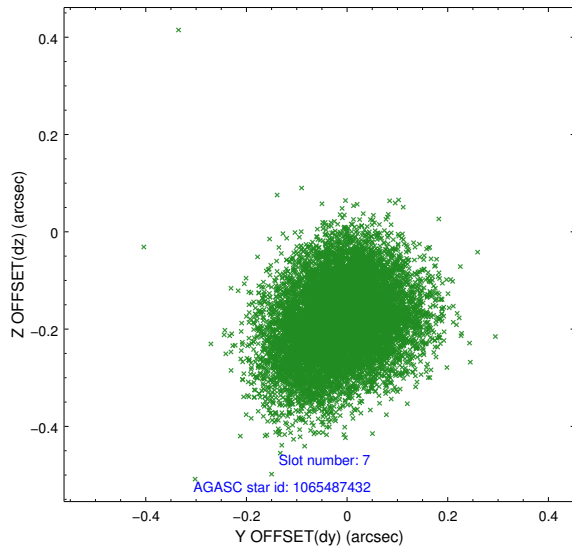
2.4.3 Slot 5



2.4.4 Slot 6

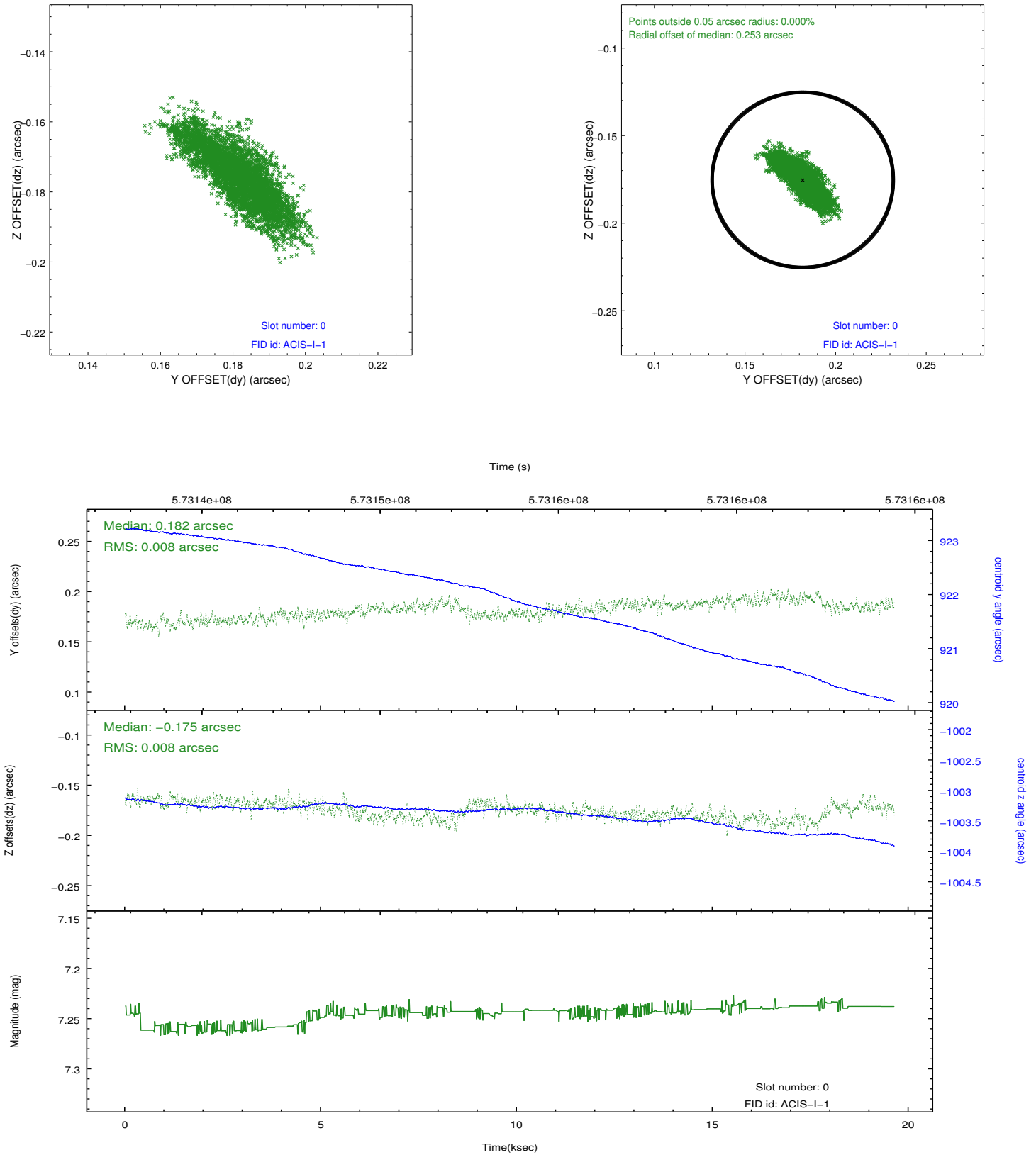


2.4.5 Slot 7

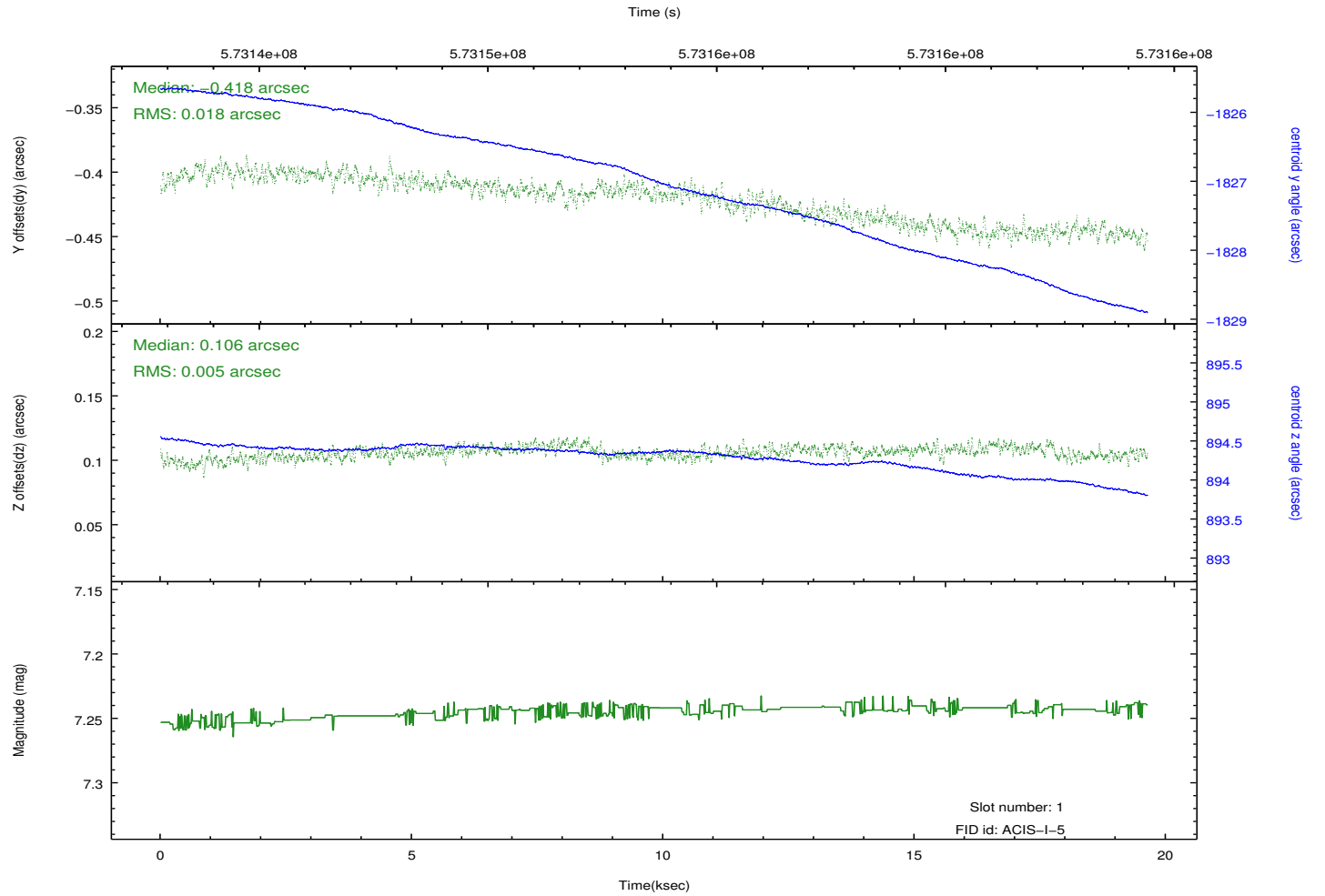
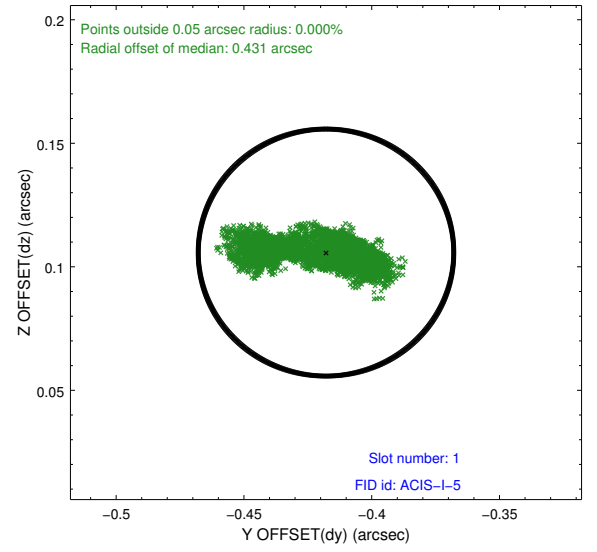
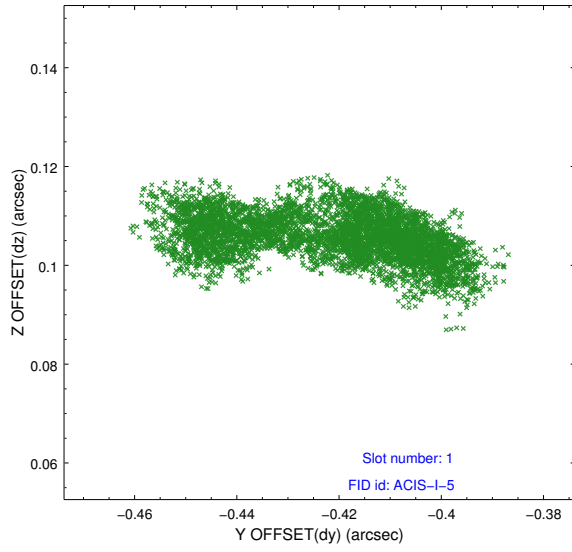


2.5 FID Slots

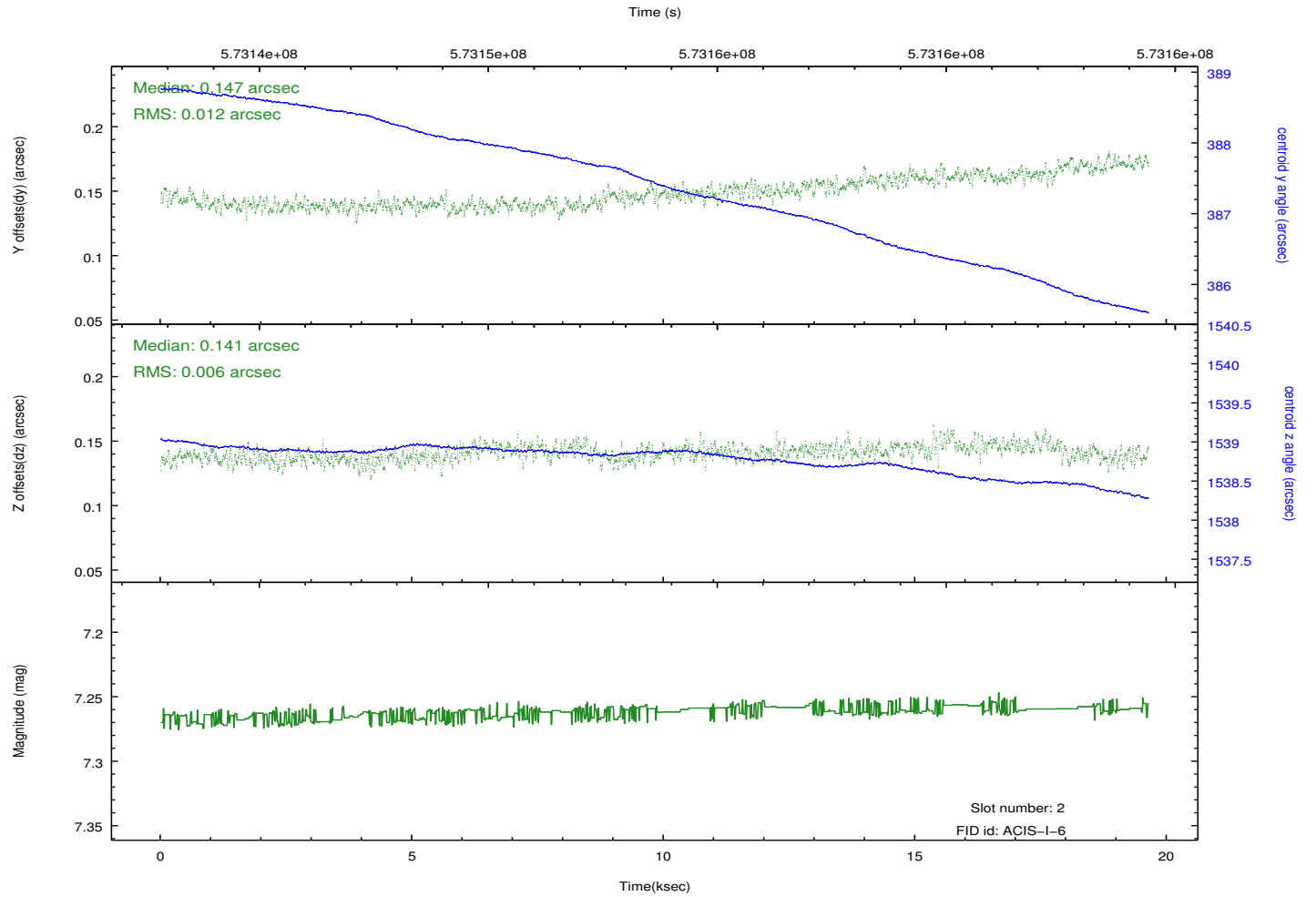
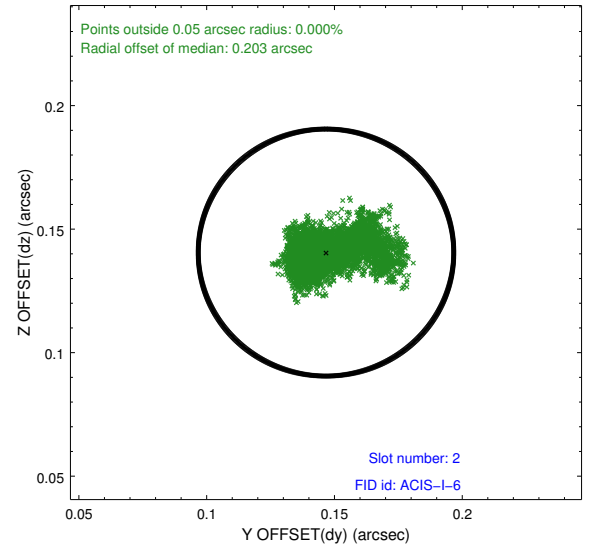
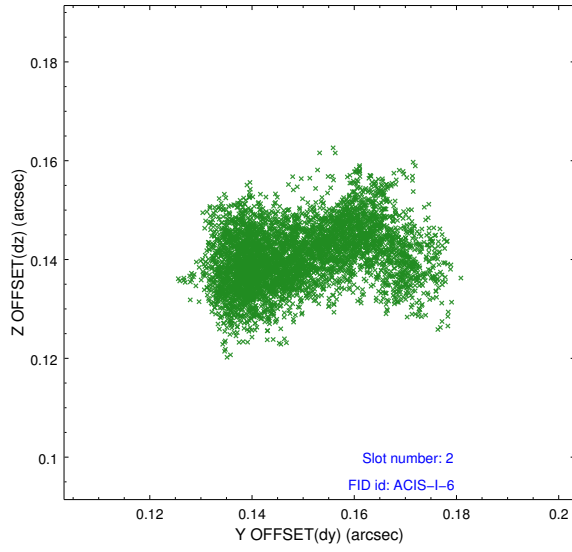
2.5.1 Slot 0



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)	2016.03.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.570300150633

A.2 Comments