

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18230 - L2 Version 1
Chandra X-Ray Center

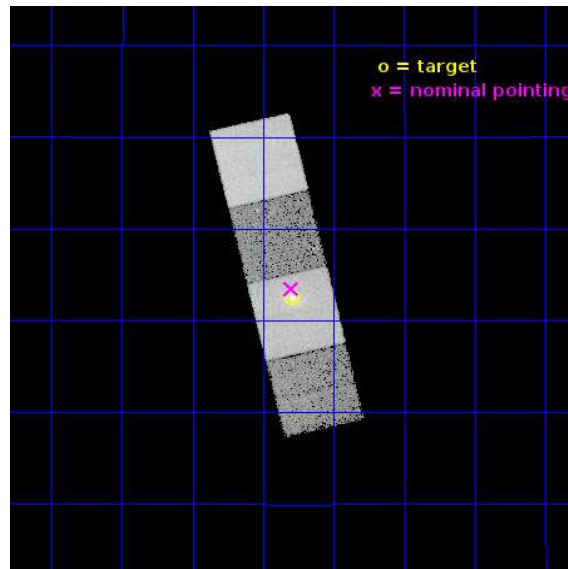
L2 Processing Date : Feb 6 2016

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

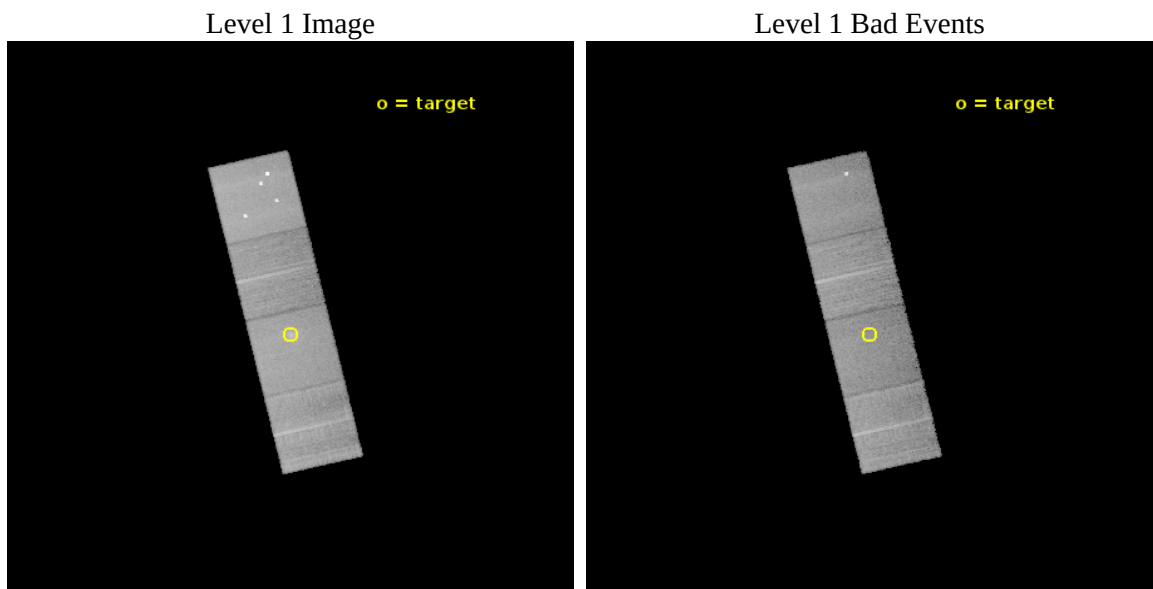
seq_num	801558	Sequence number
obs_id	18230	Observation id
title	Fossil group: the real spherical cow to study AGN feedback	Proposa
observer	Dr Ka-Wah Wong	Principal investigator
object	J1146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.698333	Observer's specified target RA [deg]
dec_targ	9.8745	Observer's specified target Dec [deg]
ra_nom	176.69995315442	Nominal RA [deg]
dec_nom	9.8914191448551	Nominal Dec [deg]
roll_nom	76.713896977846	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20058.674484968	Sum of GTIs [s]
livetime	19796.593135841	Livetime [s]
ontime5	20058.633445024	Sum of GTIs [s]
ontime6	20055.451334953	Sum of GTIs [s]
ontime7	20058.674484968	Sum of GTIs [s]
ontime8	20055.410304785	Sum of GTIs [s]
l2events	181701	Number of level 2 events



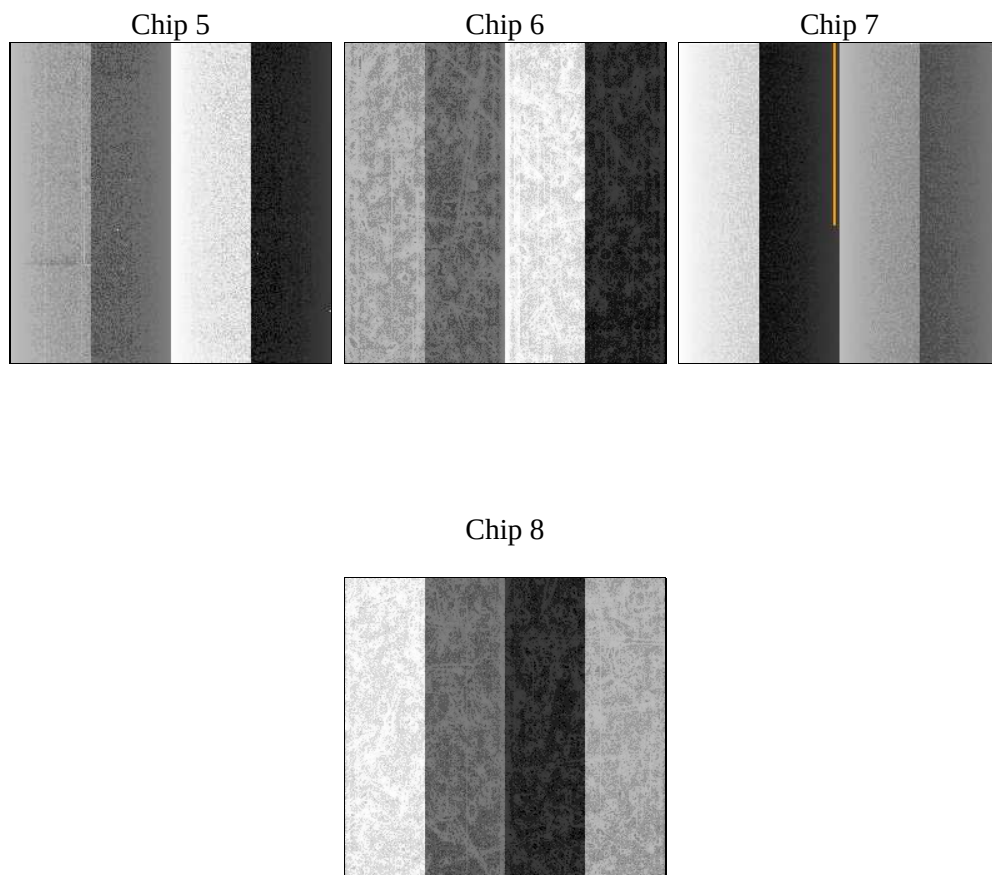
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	20058.674484968	Sum of GTIs [s]
caldsver	4.7.0	 	ontime5	20058.633445024	Sum of GTIs [s]
date	2016-02-06T19:38:45	Date and time of file creation	ontime6	20055.451334953	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20058.674484968	Sum of GTIs [s]
			ontime8	20055.410304785	Sum of GTIs [s]
			l1events	653822	Number of level 1 events

2.1.4 Events

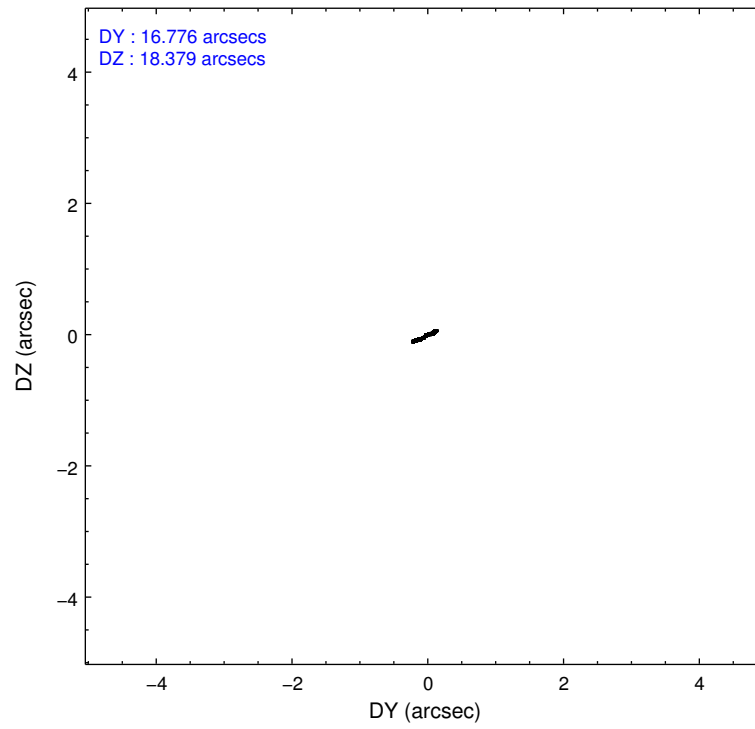
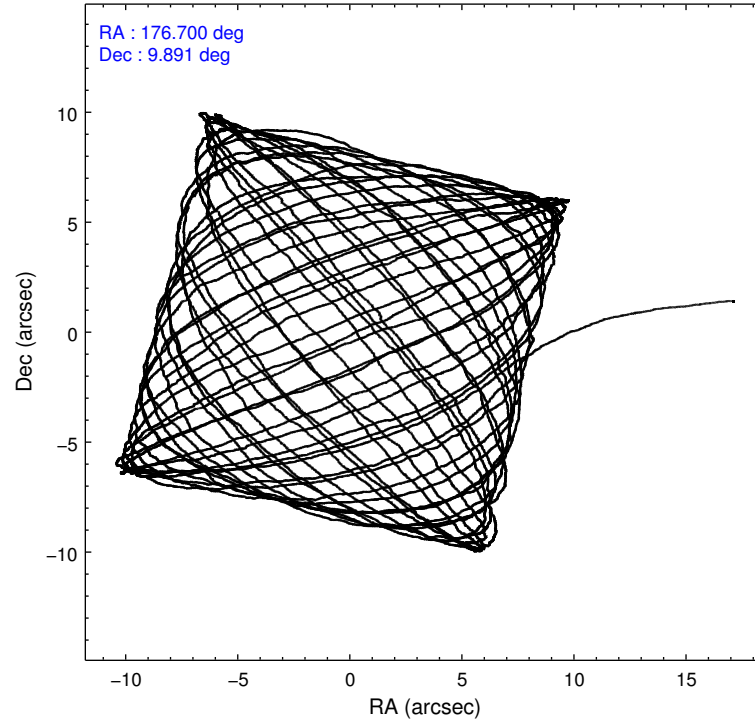
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	205713	127463	162803	157843
rejected events	103023	113455	90356	119808
rejected %	50%	89%	55%	75%

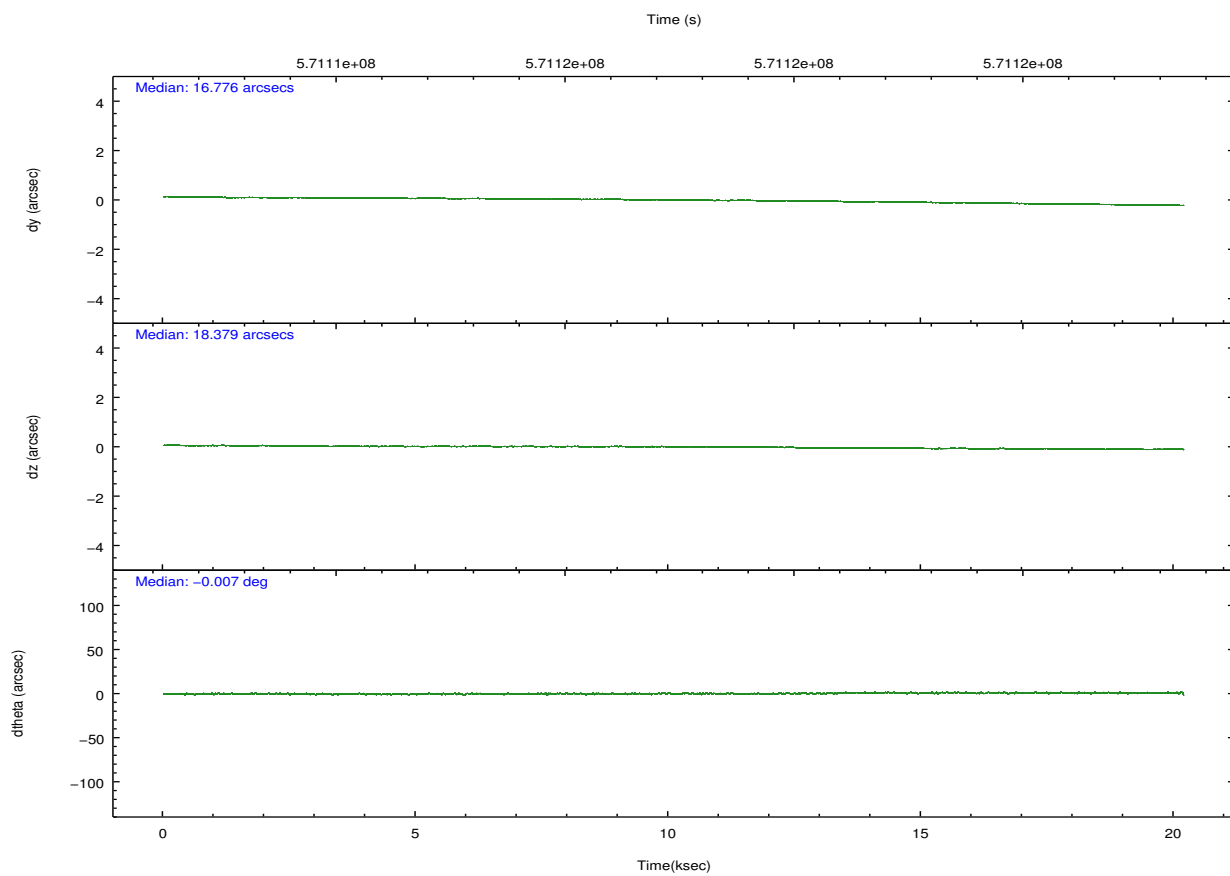
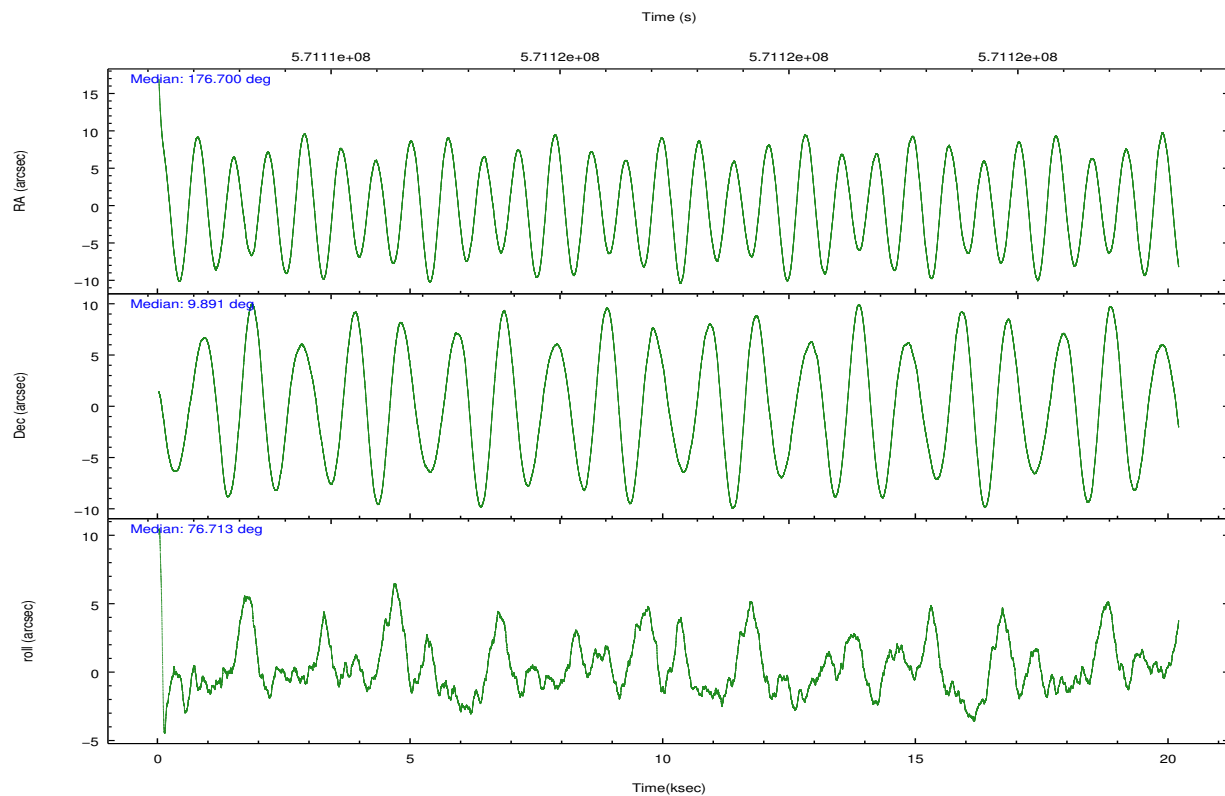
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16530	4518	7211	10636
	8%	3%	4%	6%
grade 1 events	512	51	202	110
	0%	0%	0%	0%
grade 2 events	29610	3496	15657	9449
	14%	2%	9%	5%
grade 3 events	2863	1270	5712	3644
	1%	0%	3%	2%
grade 4 events	2594	1260	5490	3485
	1%	0%	3%	2%
grade 5 events	12725	5509	14916	8382
	6%	4%	9%	5%
grade 6 events	51108	3468	38385	10831
	24%	2%	23%	6%
grade 7 events	89771	107891	75230	111306
	43%	84%	46%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	176.708310	176.6999531544156	CCD I2 on	N	N
[deg] Pointing Dec	9.865239	9.891419144855085	CCD I3 on	O1	N
[deg] Pointing Roll	76.555823	76.71389697784589	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	571107476.184000	571105704.20411	CCD S5 on	N	N
Observation start date	2016-02-06T00:56:48	2016-02-06T00:28:24	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	571127476.184000	571127922.10537	On-chip summing requested	N	N
Observation end date	2016-02-06T06:30:08	2016-02-06T06:38:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



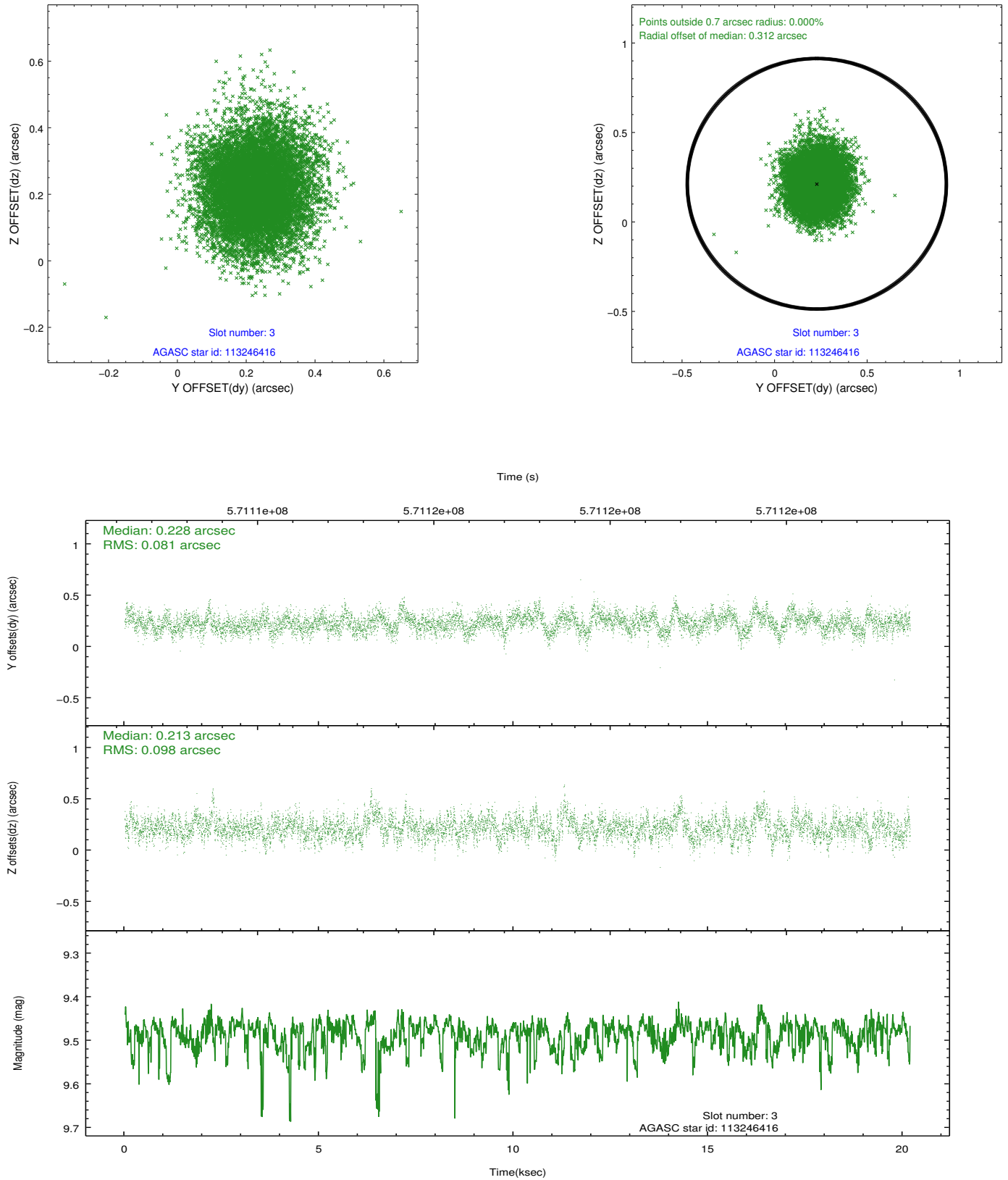


Slot Statistics

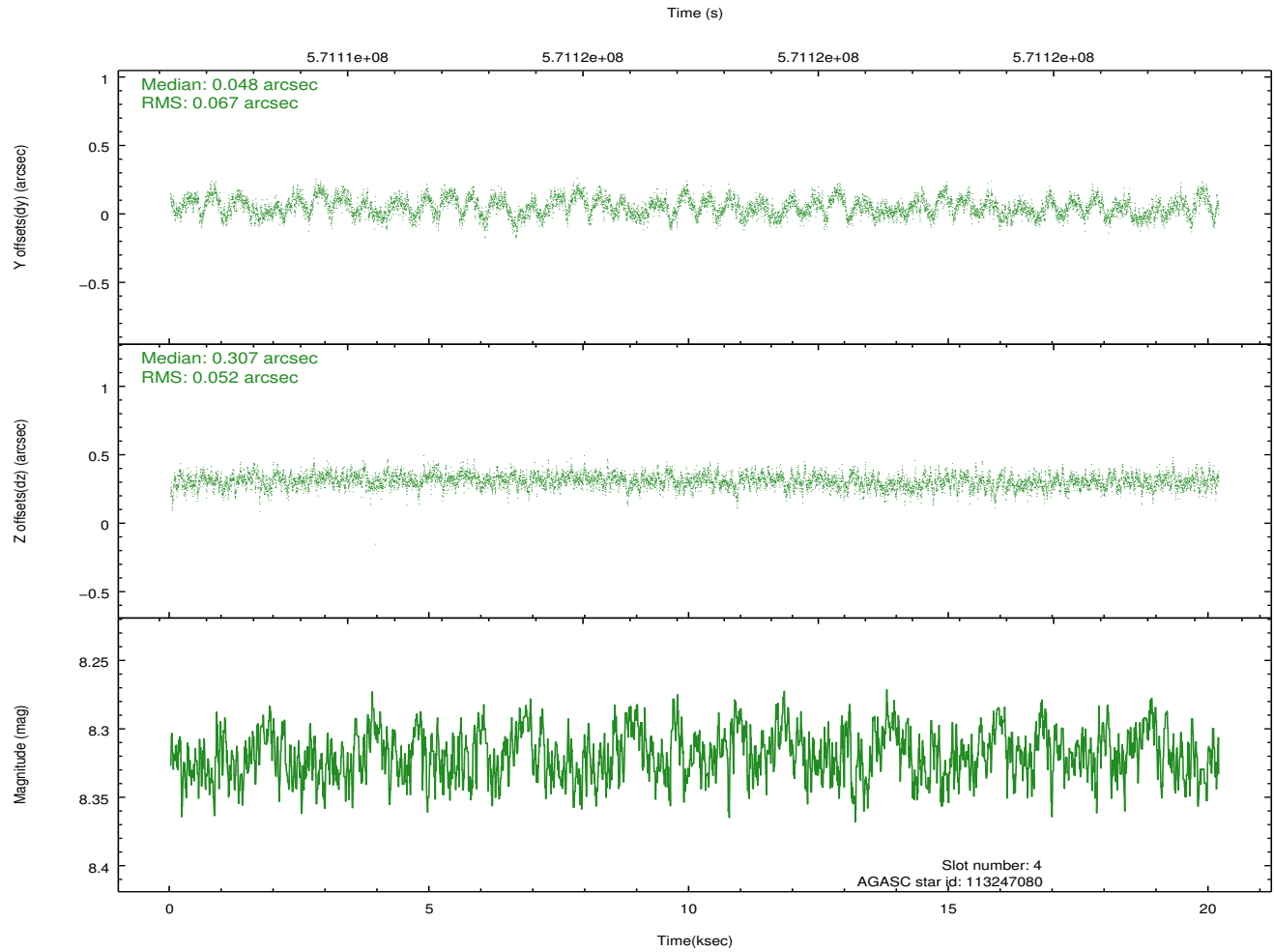
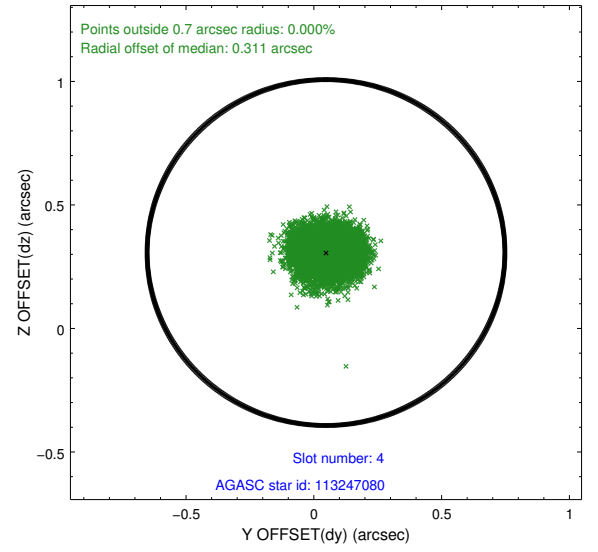
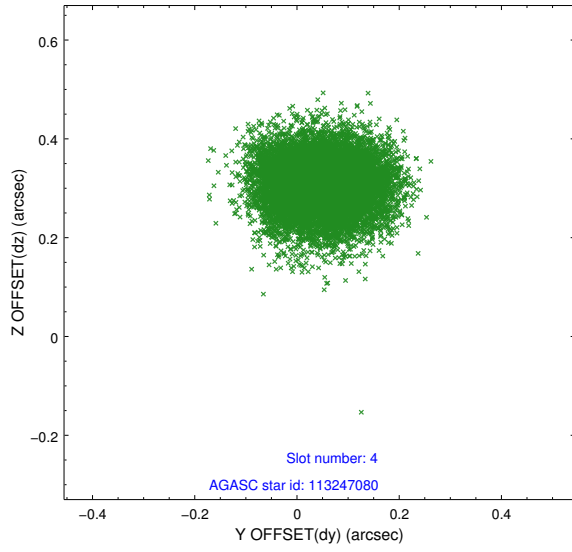
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.25	4923	0.161	-0.084	0.009	0.016	0.000000	0.000000	926.48	-1735.46
1	FID		ACIS-S-5	7.27	4922	-0.303	0.090	0.007	0.011	0.000000	0.000000	-1822.94	161.99
2	FID		ACIS-S-6	7.40	4923	0.121	0.006	0.008	0.013	0.000000	0.000000	391.72	806.14
3	GUIDE	used	113246416	9.48	9833	0.228	0.213	0.134	0.221	176.814547	9.568088	-952.60	-614.25
4	GUIDE	used	113247080	8.32	9844	0.048	0.307	0.091	0.142	176.794431	9.469985	-1312.69	-627.59
5	GUIDE	used	113247216	9.60	9840	0.460	0.398	0.153	0.256	177.105331	9.230683	-1892.46	-1902.01
6	GUIDE	used	113641904	8.96	9840	-0.266	-0.287	0.111	0.175	176.833560	10.457267	2175.29	64.42
7	GUIDE	used	112725056	9.25	9836	-0.471	-0.633	0.126	0.206	176.078556	10.094420	284.94	2363.47

2.4 Star Slots

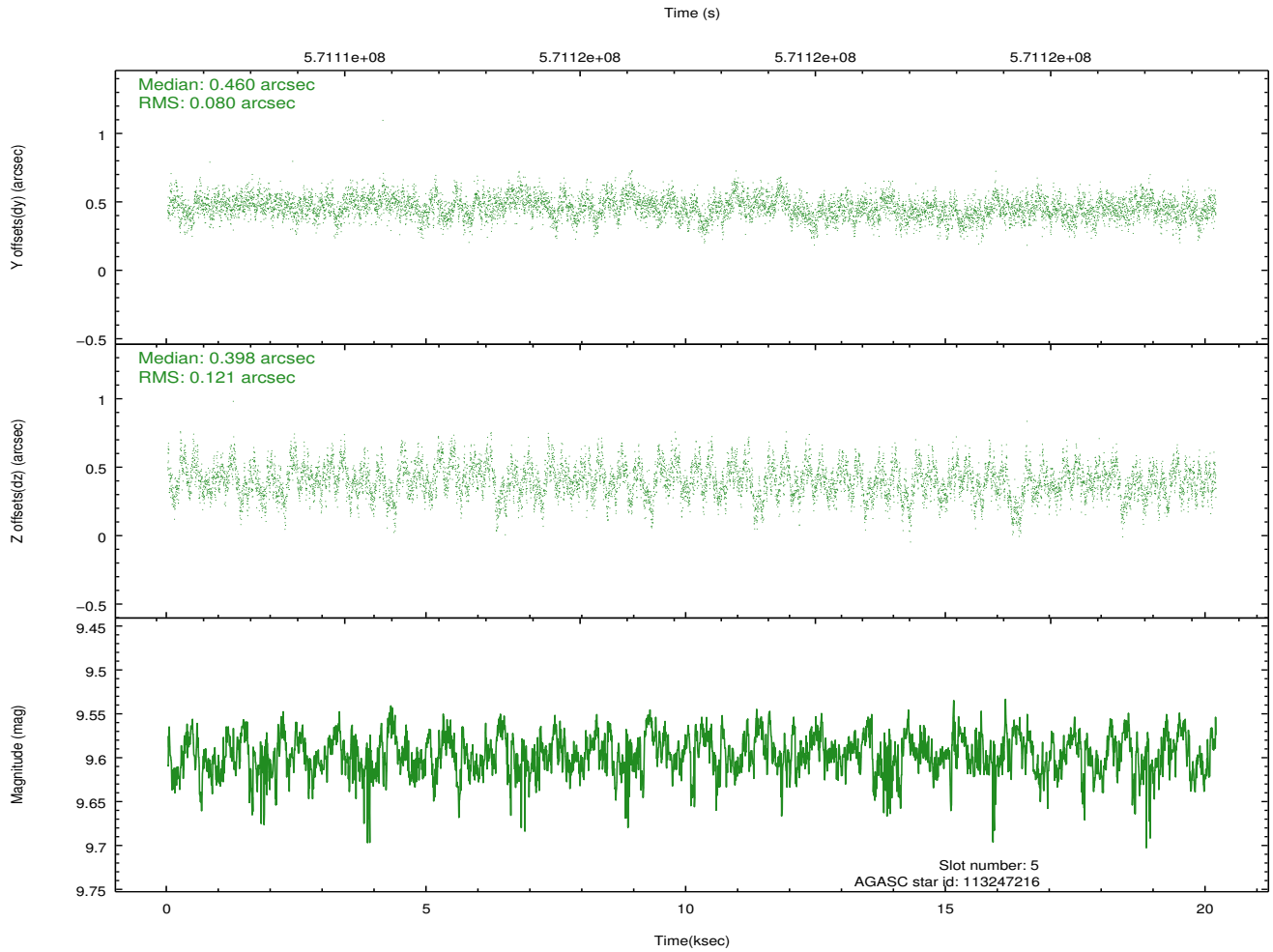
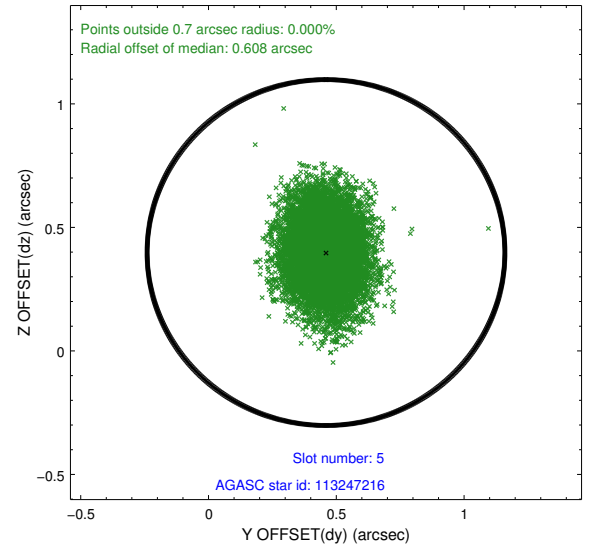
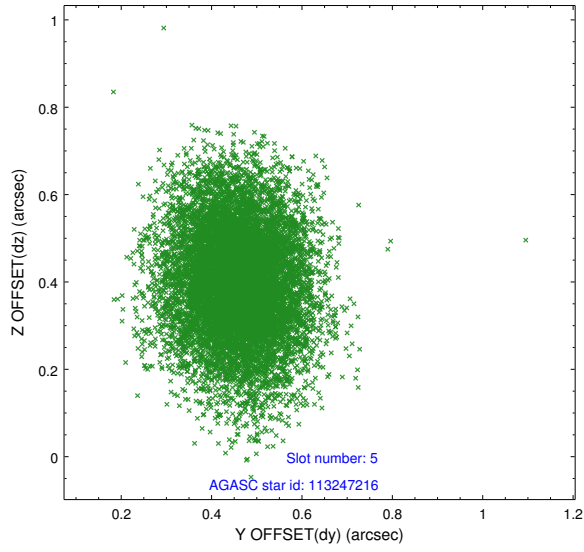
2.4.1 Slot 3



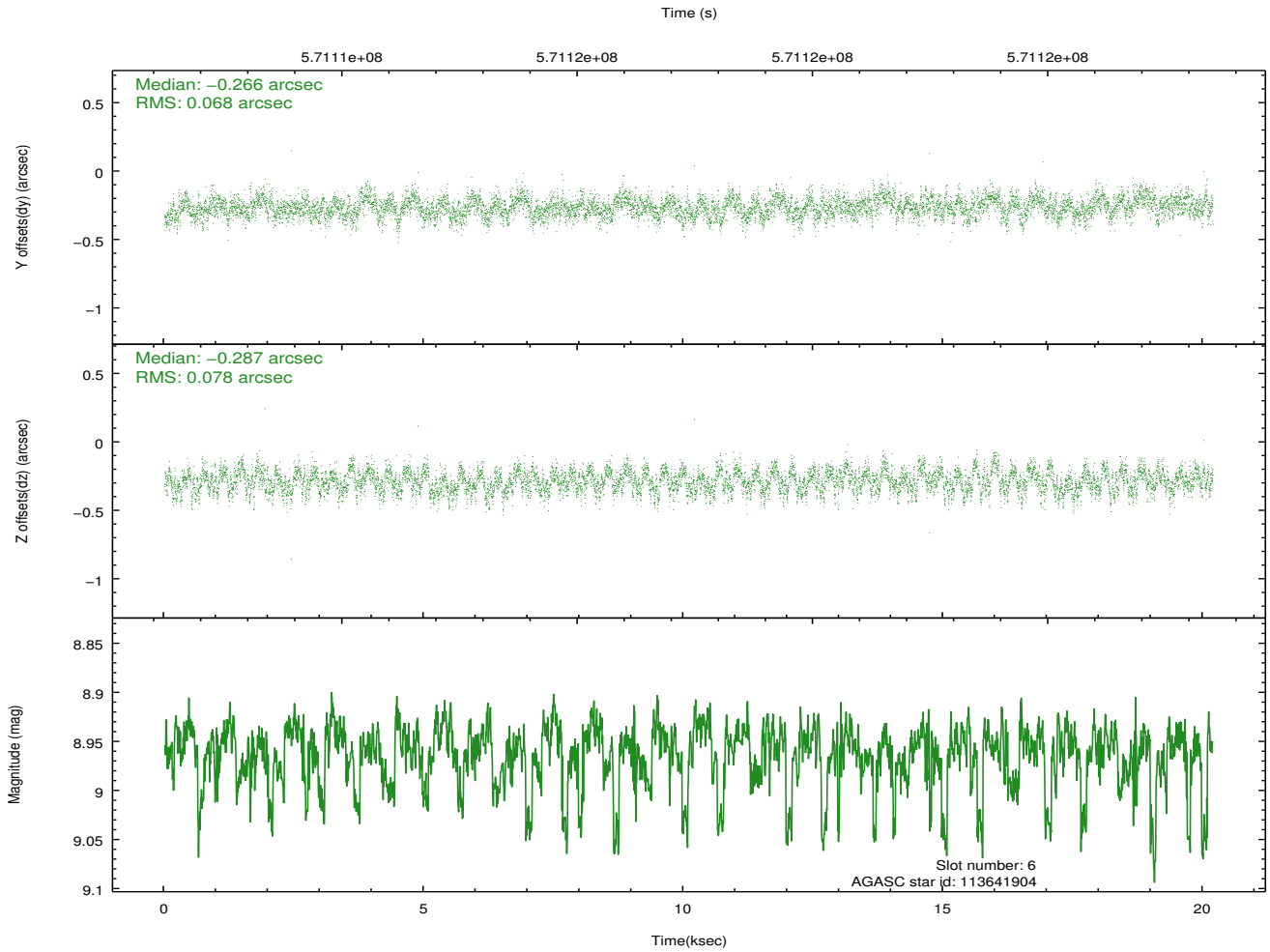
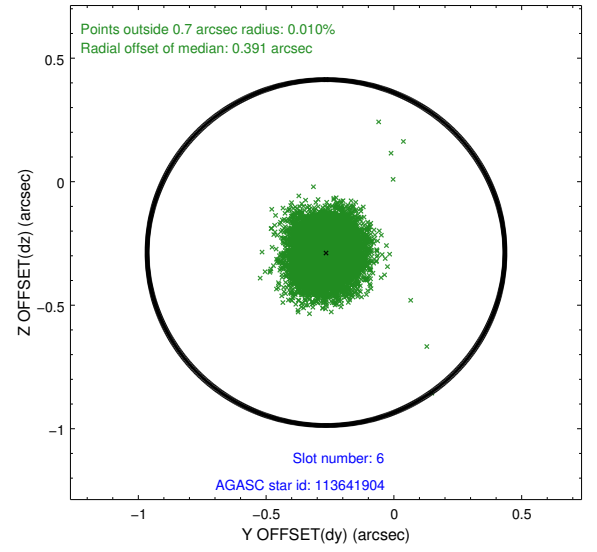
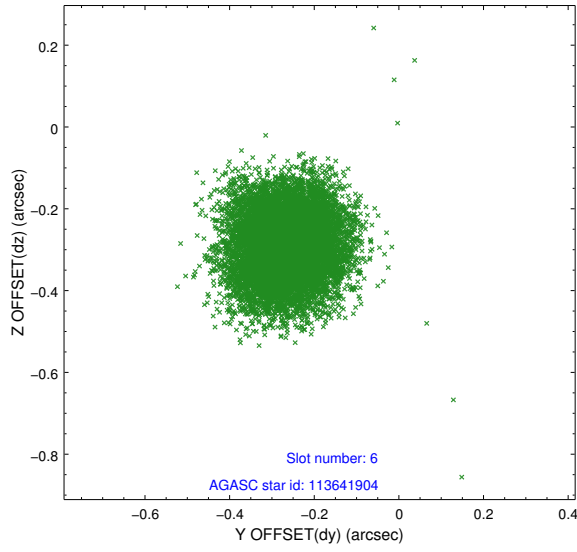
2.4.2 Slot 4



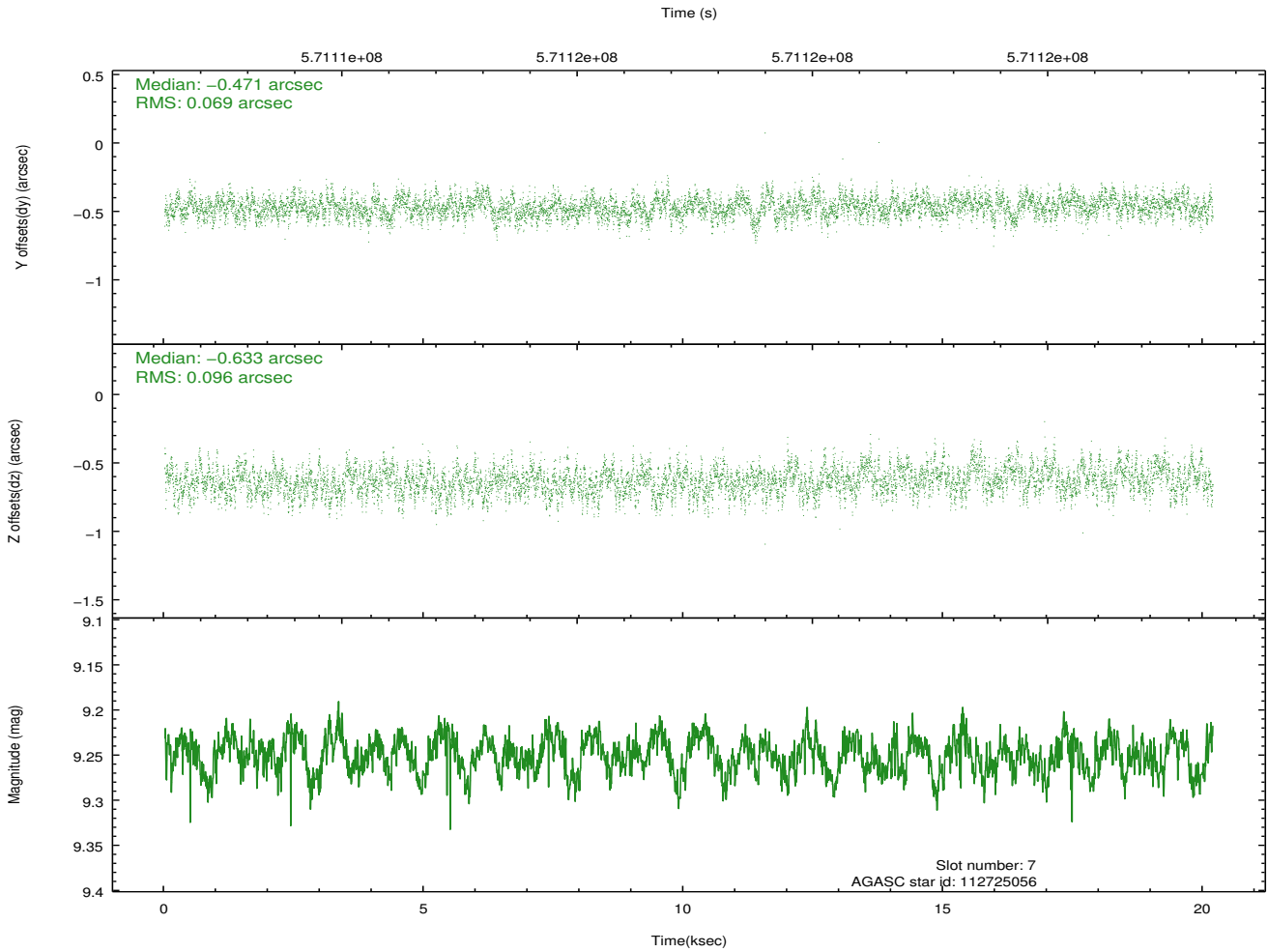
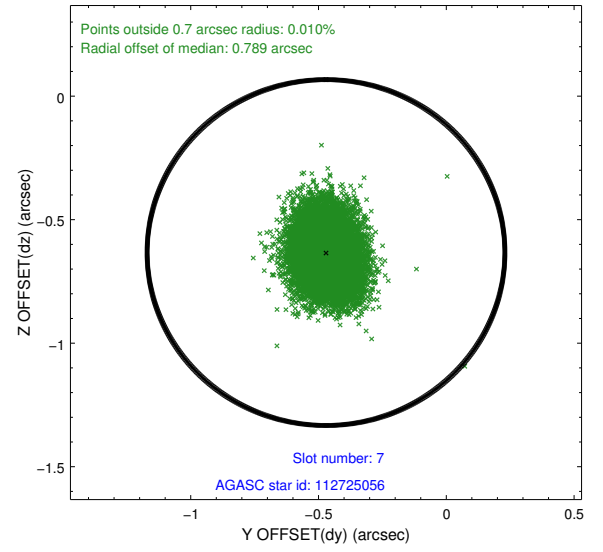
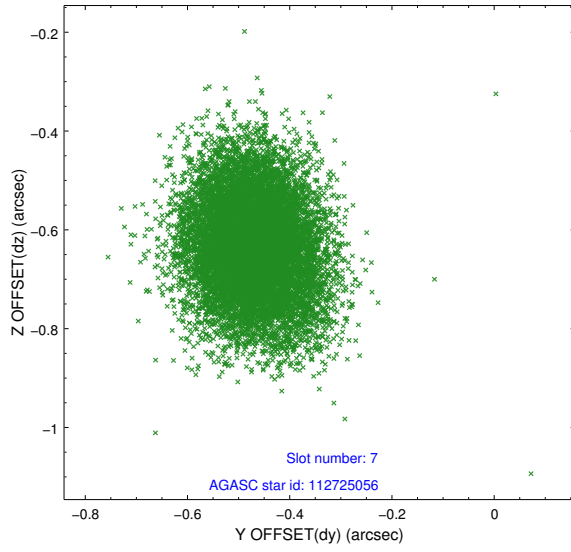
2.4.3 Slot 5



2.4.4 Slot 6

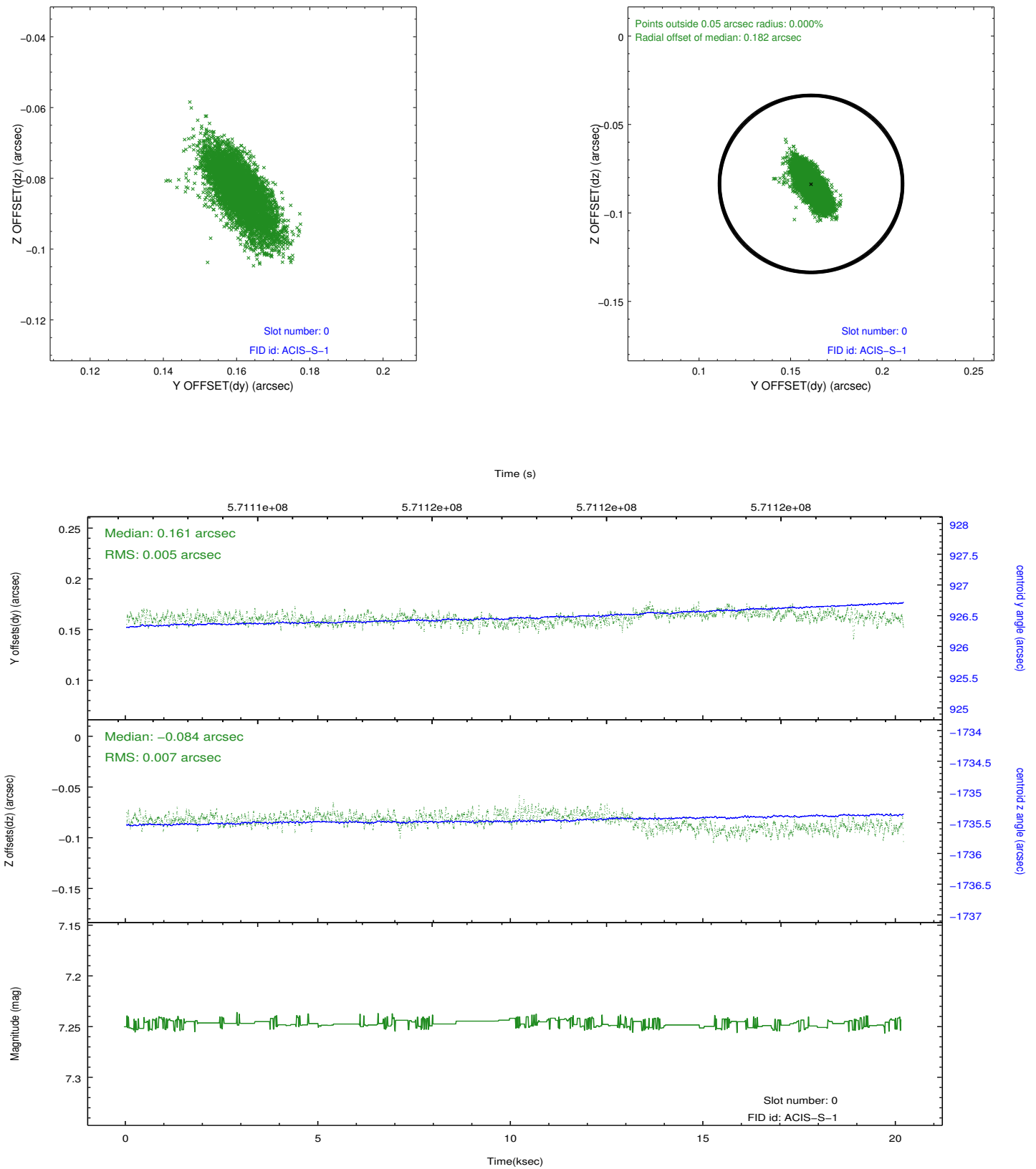


2.4.5 Slot 7

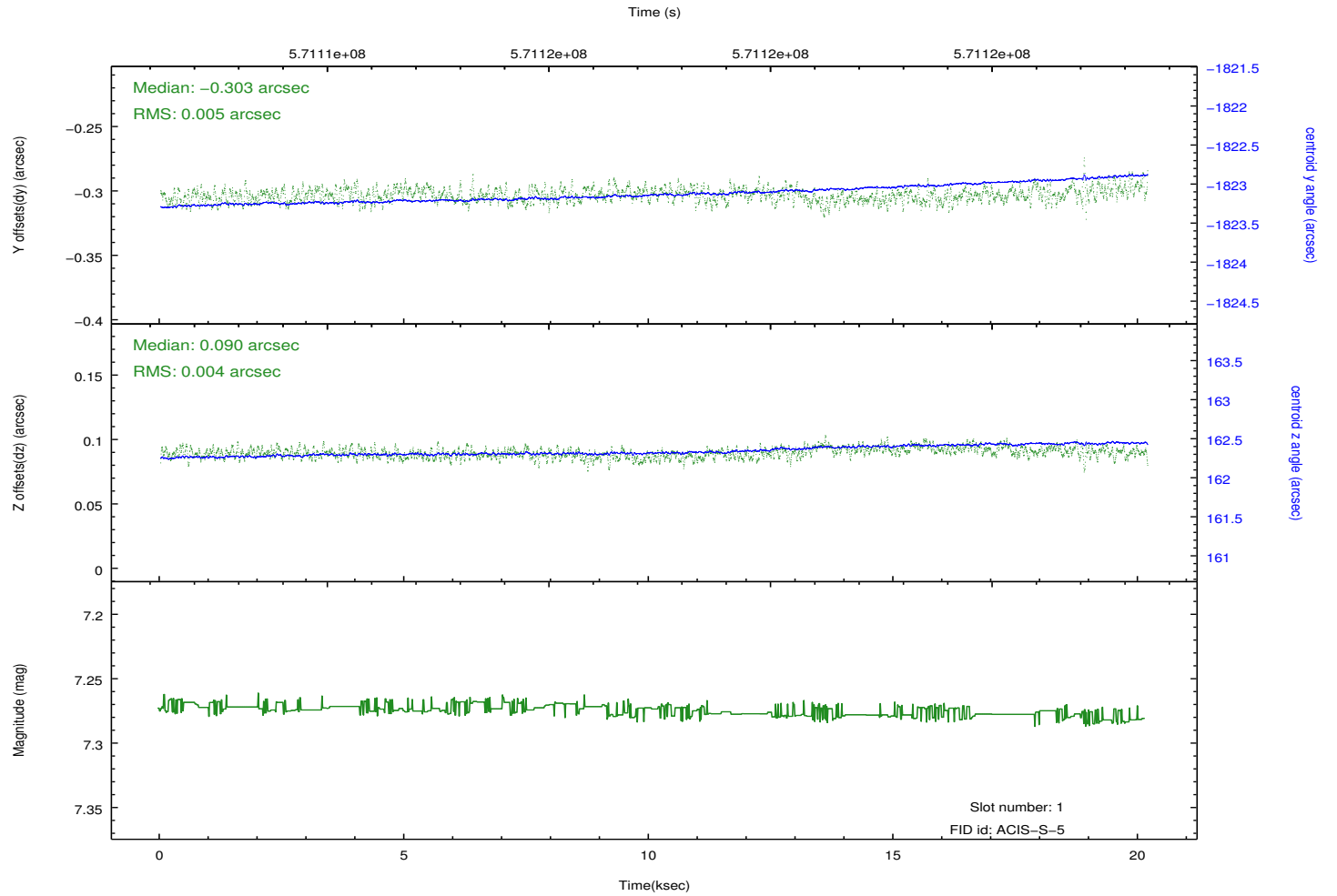
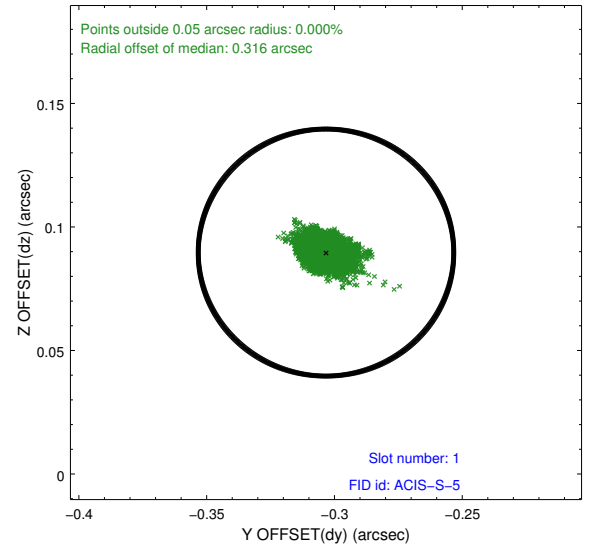
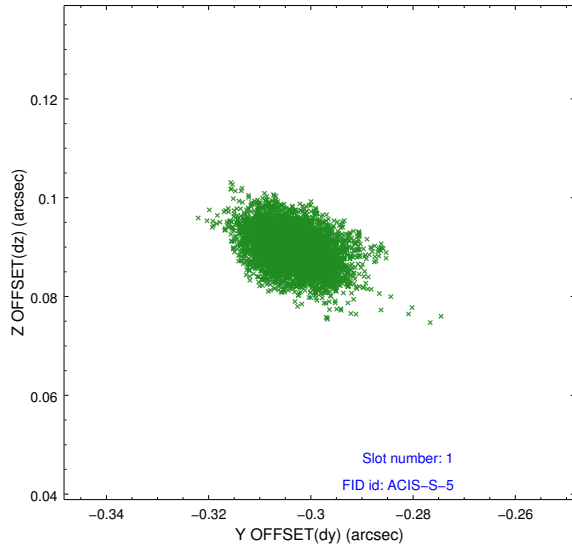


2.5 FID Slots

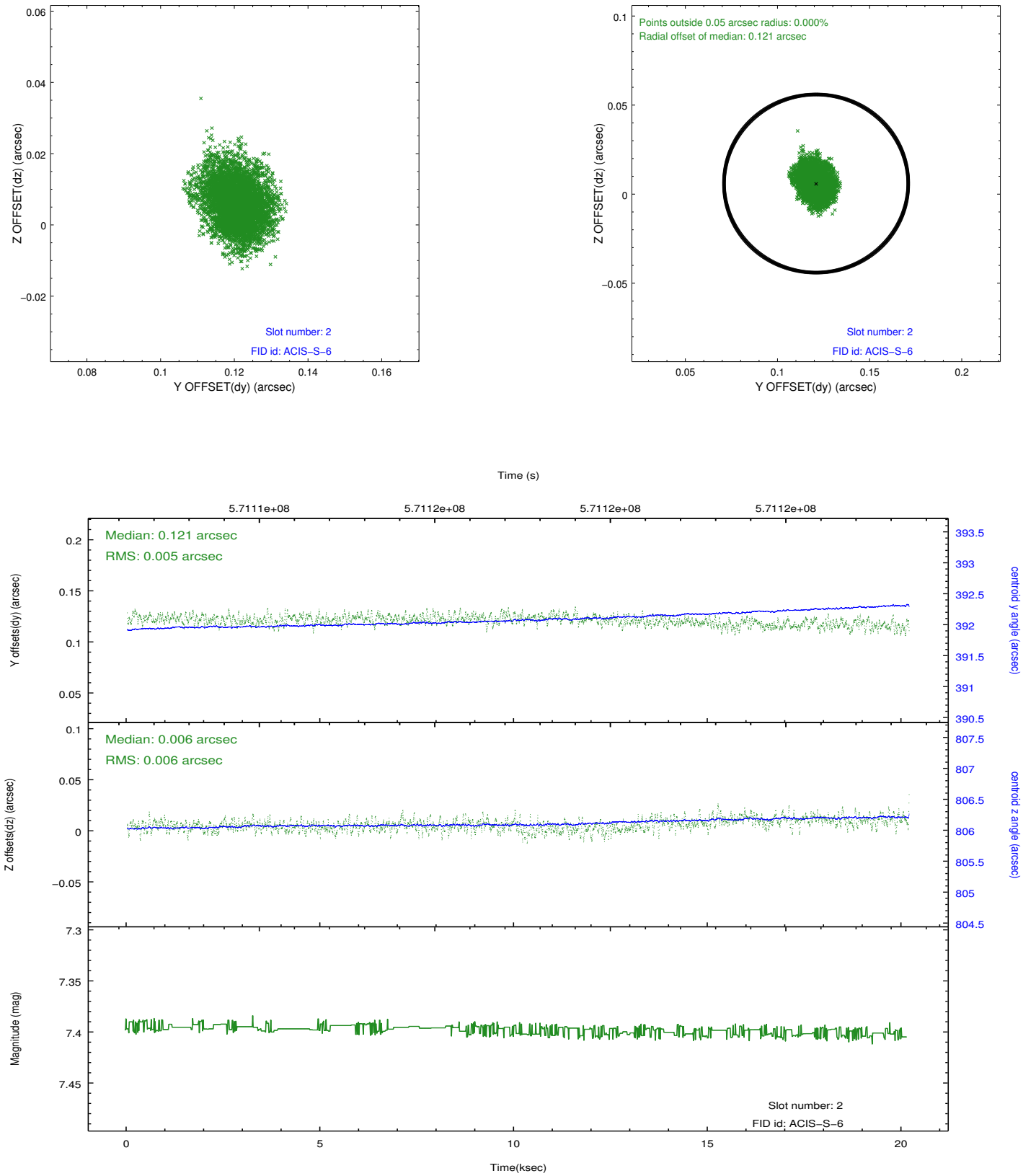
2.5.1 Slot 0



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)	2016.02.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.058674484968

A.2 Comments

Optional chip I3 not included.