

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19870 - L2 Version 1
Chandra X-Ray Center

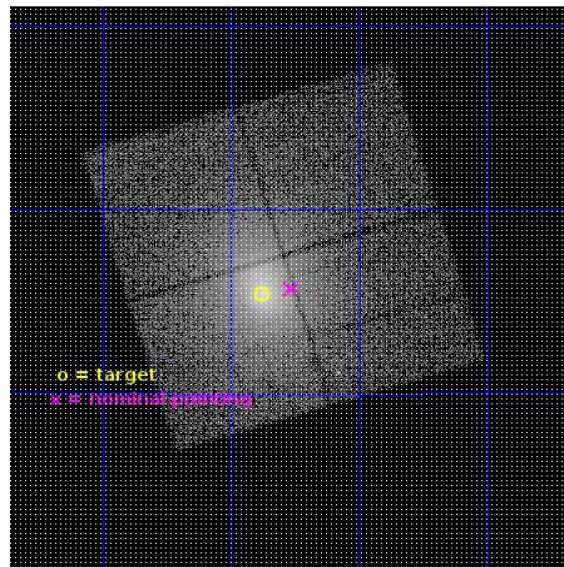
L2 Processing Date : Apr 9 2017

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1 Front

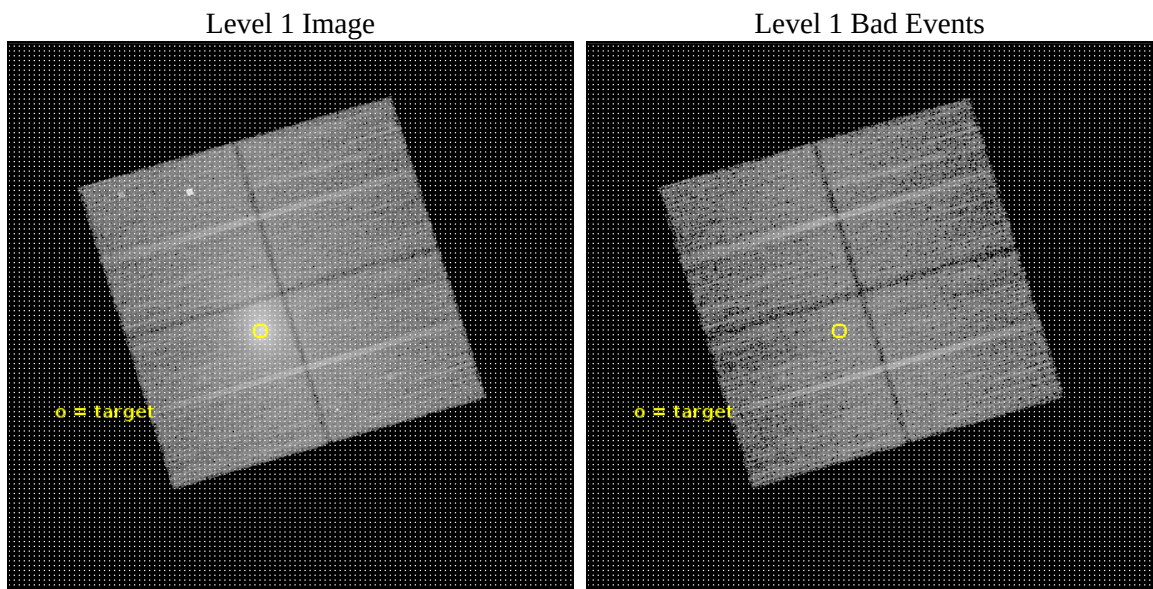
seq_num	890135	Sequence number
obs_id	19870	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.19111571597	Nominal RA [deg]
dec_nom	26.59514409638	Nominal Dec [deg]
roll_nom	163.10507966295	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19790.400152326	Sum of GTIs [s]
livetime	19531.824004855	Livetime [s]
ontime0	19787.259082079	Sum of GTIs [s]
ontime1	19790.400152326	Sum of GTIs [s]
ontime2	19784.117981672	Sum of GTIs [s]
ontime3	19790.400152326	Sum of GTIs [s]
l2events	170523	Number of level 2 events



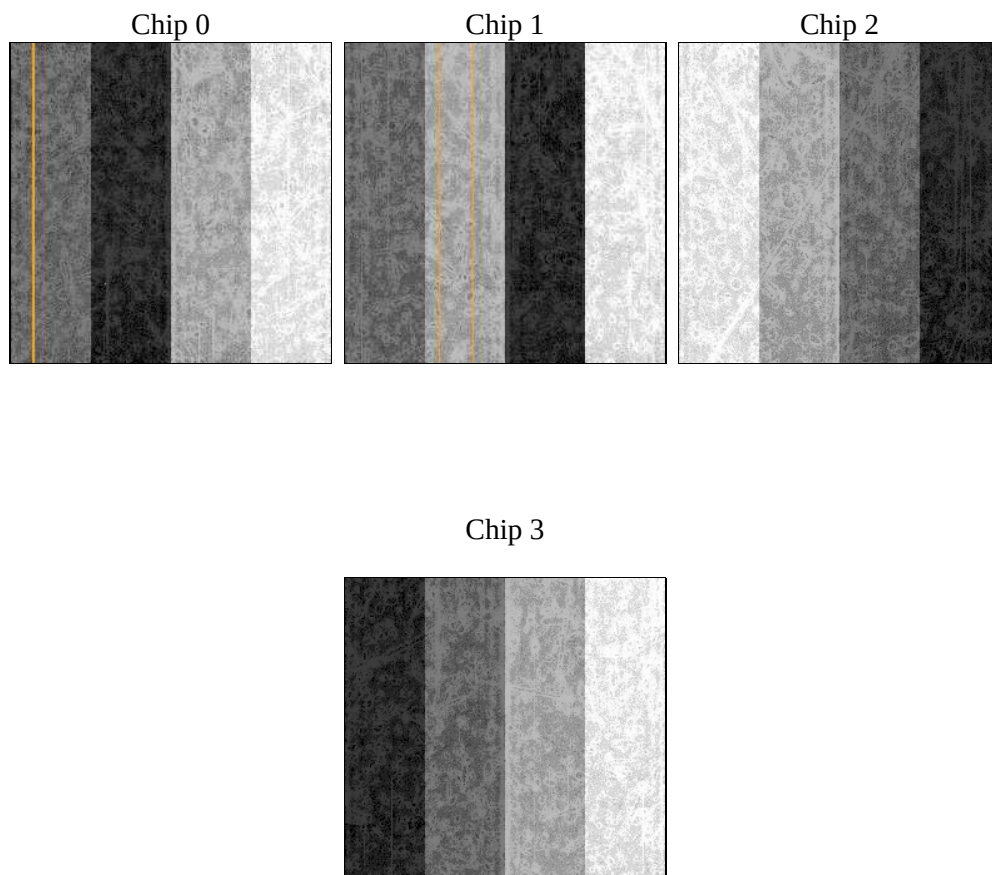
2 OBI

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	10.5.2	Processing system revision	ontime	19790.400152326	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	19787.259082079	Sum of GTIs [s]
date	2017-04-09T05:25:12	Date and time of file creation	ontime1	19790.400152326	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19784.117981672	Sum of GTIs [s]
			ontime3	19790.400152326	Sum of GTIs [s]
			l1events	684122	Number of level 1 events

2.1.4 Events

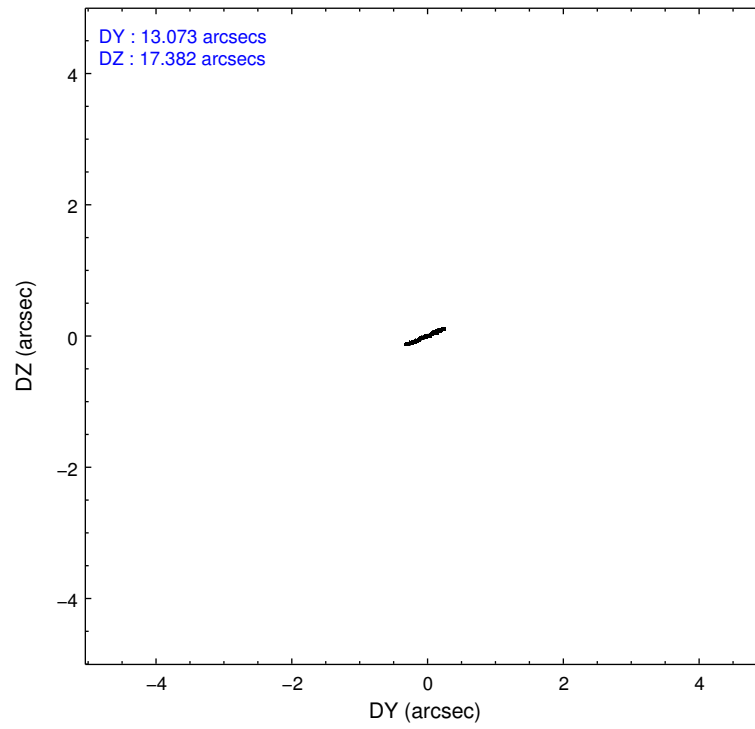
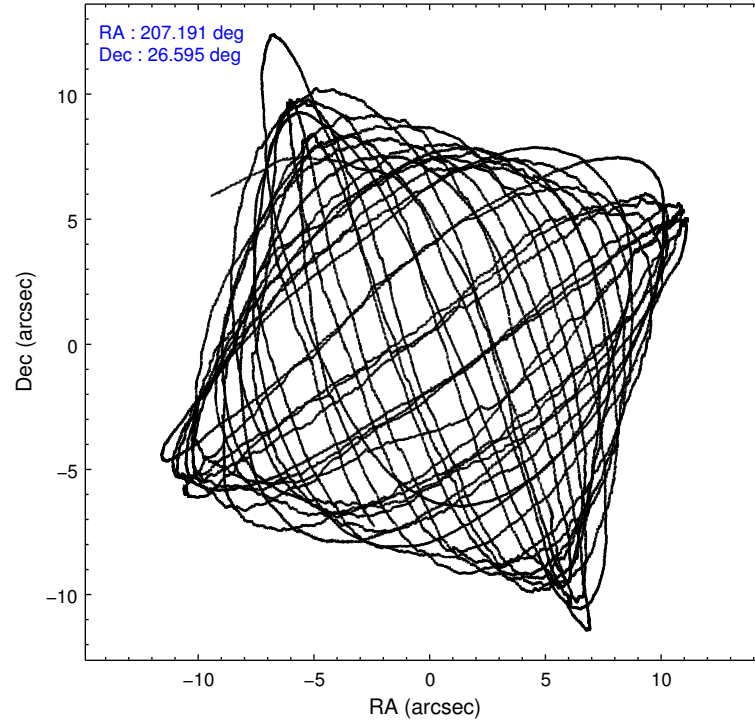
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	136829	159113	161942	226238
rejected events	115309	117734	134018	126183
rejected %	84%	73%	82%	55%

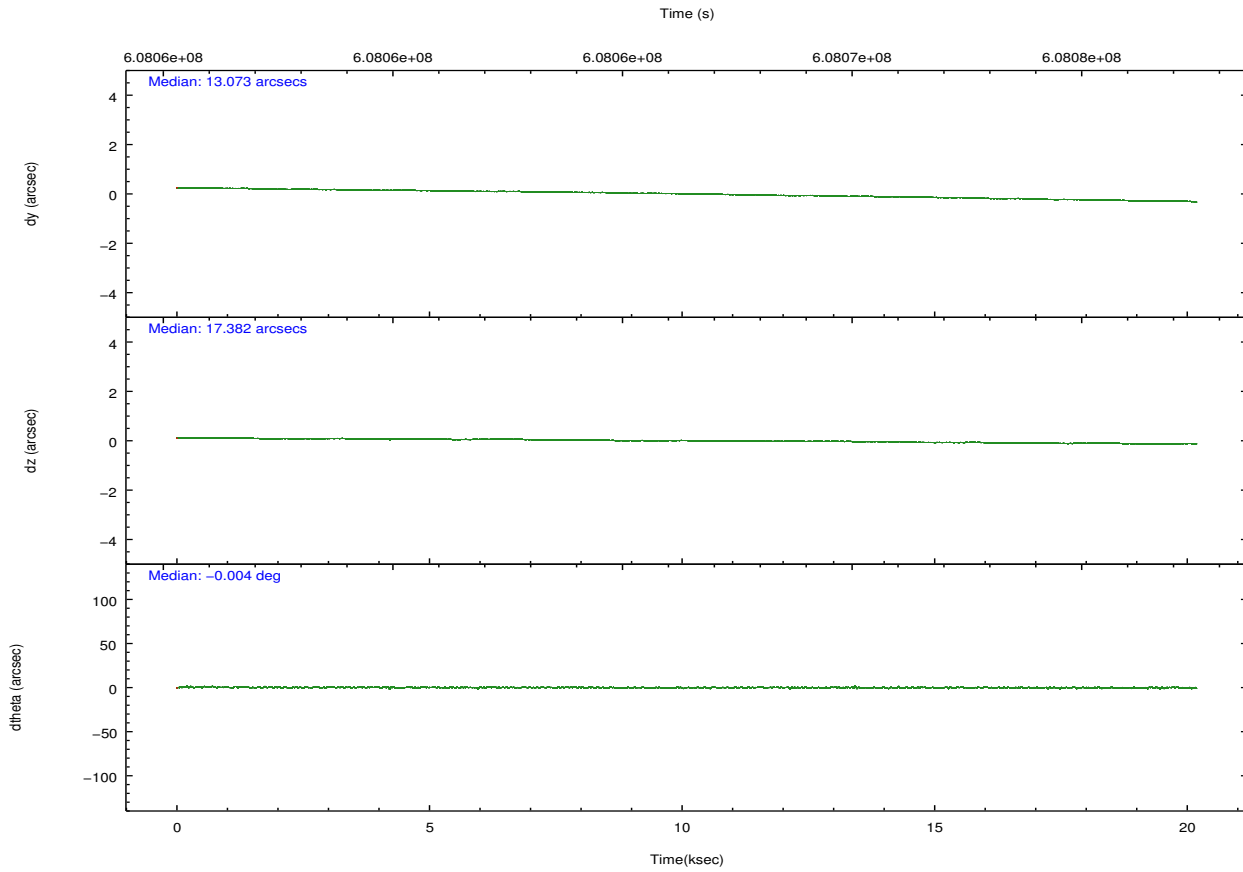
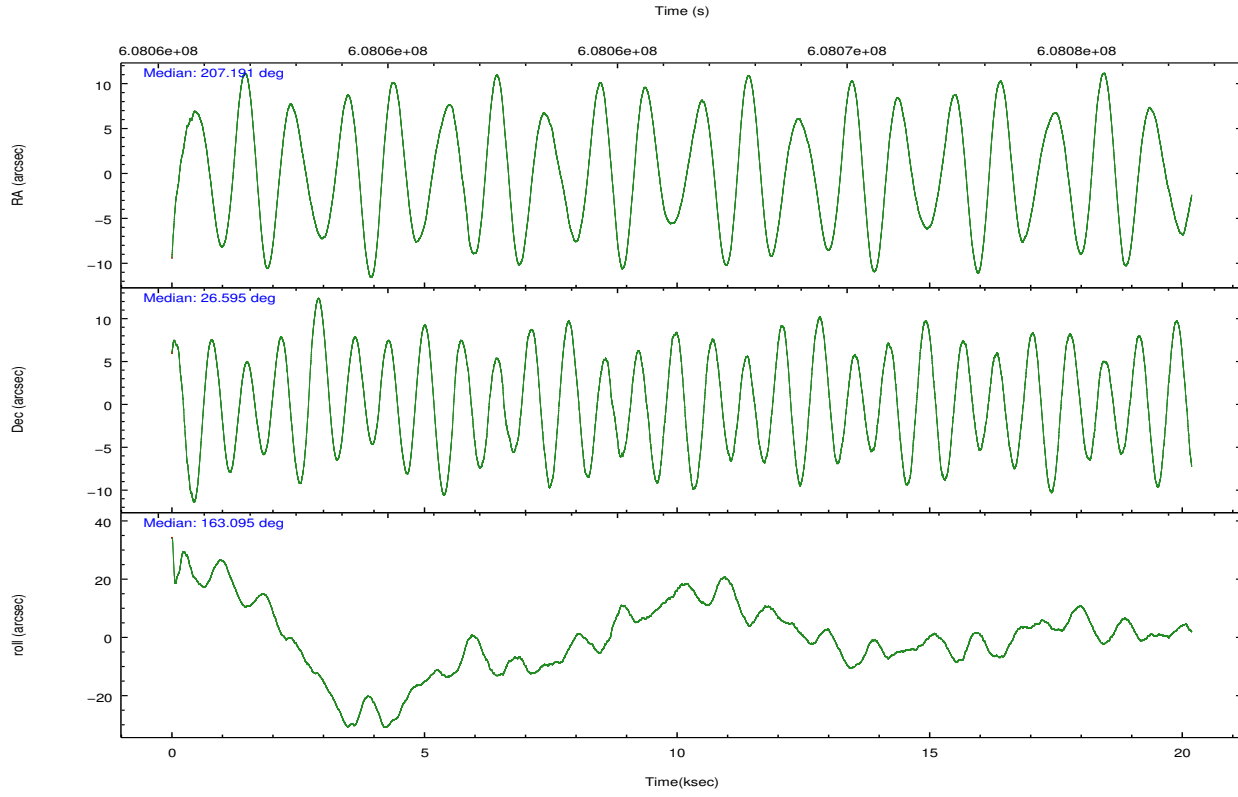
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	10139	25500	16061	74389
	7%	16%	9%	32%
grade 1 events	112	144	152	471
	0%	0%	0%	0%
grade 2 events	4548	6913	4724	11853
	3%	4%	2%	5%
grade 3 events	1754	2097	1903	4174
	1%	1%	1%	1%
grade 4 events	1572	2143	1927	4145
	1%	1%	1%	1%
grade 5 events	5567	5836	5250	6752
	4%	3%	3%	2%
grade 6 events	3509	4730	3314	5511
	2%	2%	2%	2%
grade 7 events	109628	111750	128611	118943
	80%	70%	79%	52%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	207.221162	207.191115715967	CCD I2 on	Y	Y
[deg] Pointing Dec	26.601486	26.59514409637983	CCD I3 on	Y	Y
[deg] Pointing Roll	162.882929	163.1050796629532	CCD S0 on	N	N
[s] Window start time (MET)	607392069.184000	607392069.184000	CCD S1 on	N	N
[s] Window stop time (MET)	609897669.184000	609897669.184000	CCD S2 on	O1	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-230.252463	-230.2509380556586	CCD S5 on	N	N
[mm] SIM translation stage offset	-3.34	-3.341514947271122	Number of optional ACIS chips dropped	1	1
[s] Observation start time (MET)	608056521.184000	608056144.97763	On-chip summing requested	N	N
Observation start date	2017-04-08T16:34:12	2017-04-08T16:29:04	Subarray requested	NONE	NONE
[s] Observation end time (MET)	608076521.184000	608077372.21636	Alternating exposures requested	N	N
Observation end date	2017-04-08T22:07:32	2017-04-08T22:22:52	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



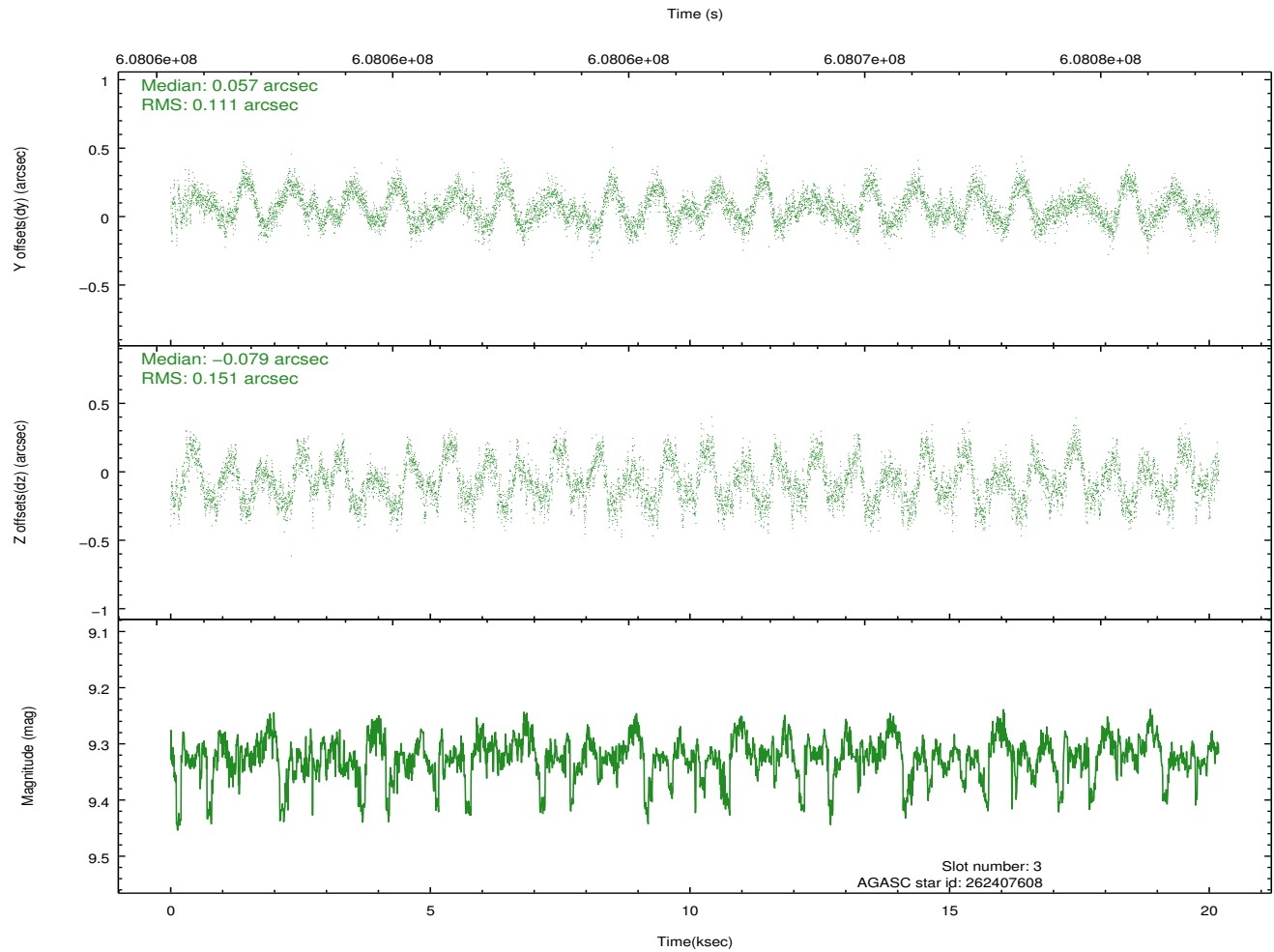
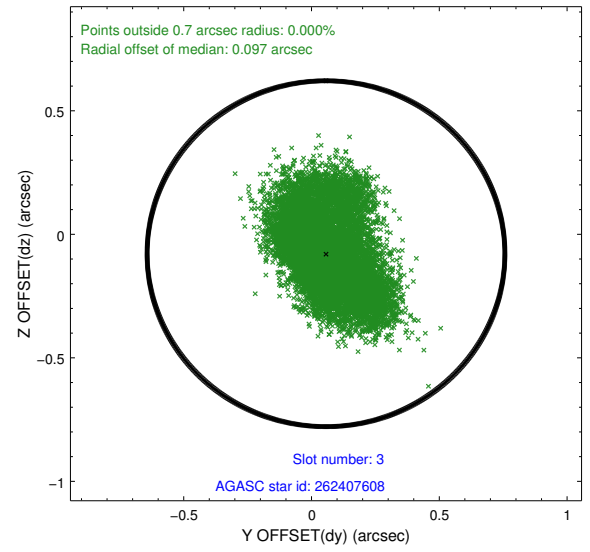
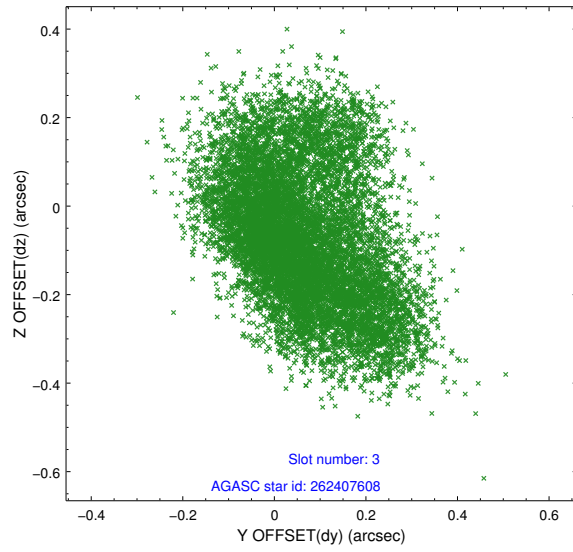


Slot Statistics

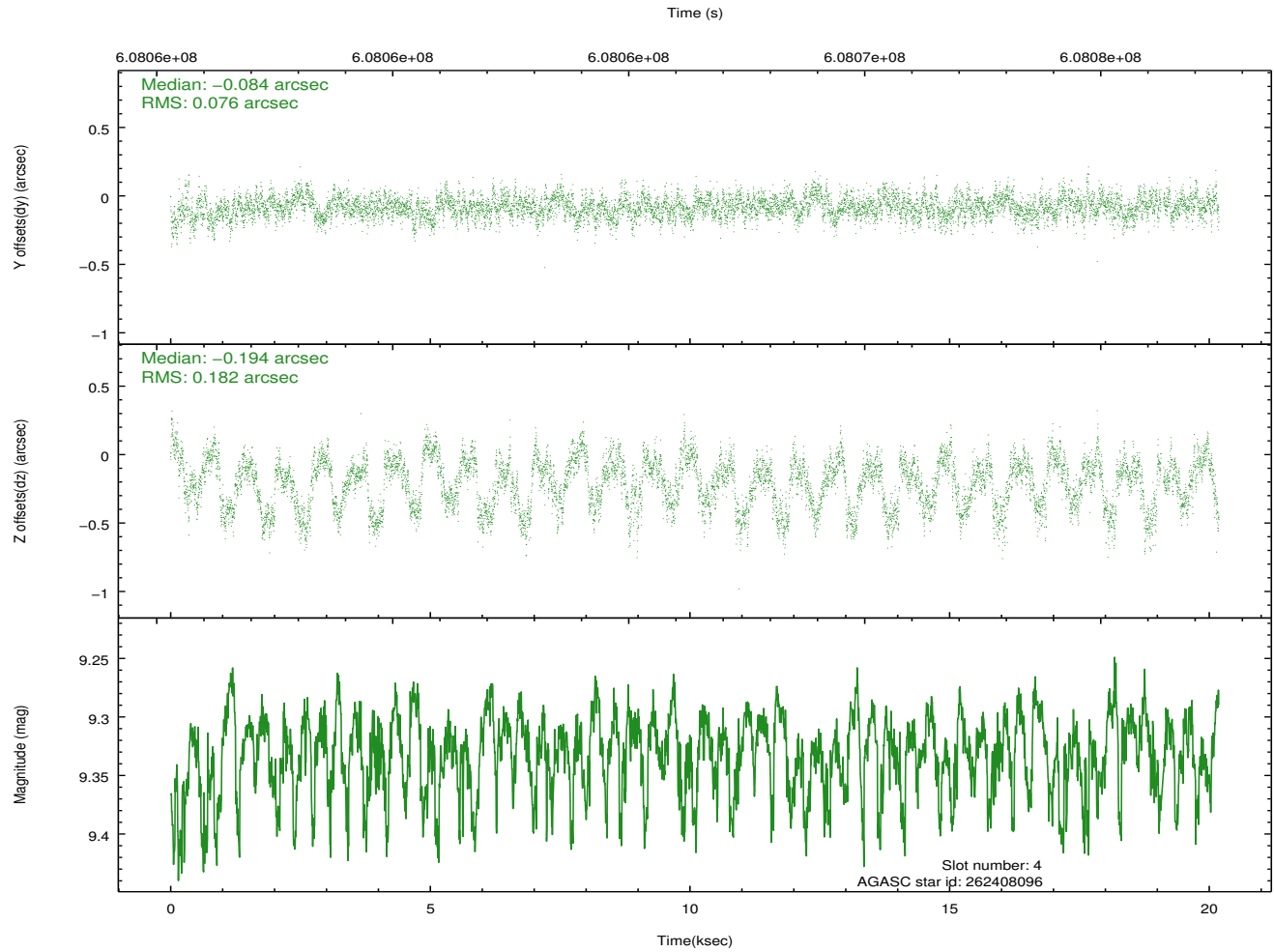
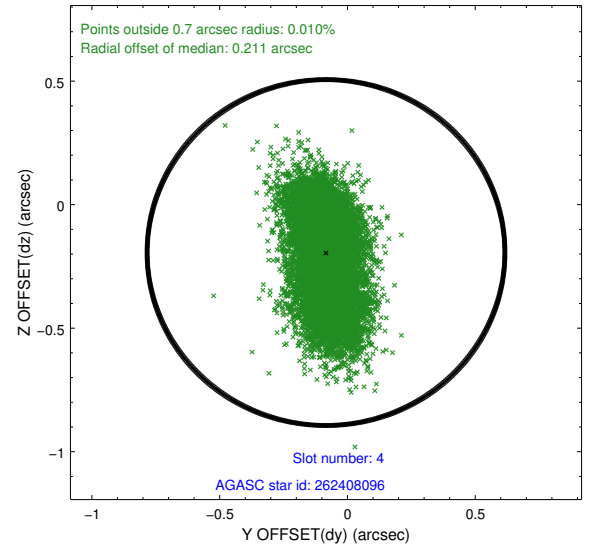
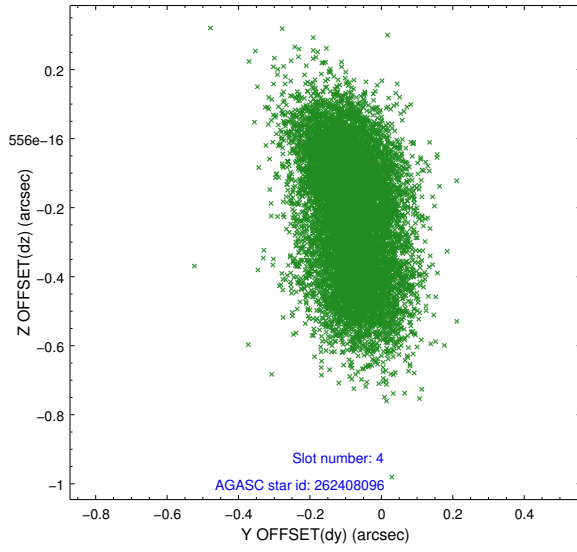
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	4924	0.135	-0.155	0.007	0.012	0.000000	0.000000	926.56	-909.70
1	FID		ACIS-I-5	7.22	4924	-0.381	0.070	0.006	0.011	0.000000	0.000000	-1822.04	987.79
2	FID		ACIS-I-6	7.24	4923	0.154	0.156	0.007	0.011	0.000000	0.000000	391.82	1632.68
3	GUIDE	used	262407608	9.32	9838	0.057	-0.079	0.205	0.320	207.378401	26.435507	-660.15	421.79
4	GUIDE	used	262408096	9.33	9807	-0.084	-0.194	0.209	0.350	207.011678	26.515421	554.62	494.41
5	GUIDE	used	262408512	7.96	9845	0.085	0.415	0.129	0.232	207.800210	27.128796	-1212.31	-2363.72
6	GUIDE	used	262408936	9.61	9830	-0.033	0.132	0.221	0.327	207.154731	26.726554	336.52	-367.05
7	GUIDE	used	262411960	9.61	9829	-0.030	-0.240	0.227	0.372	207.327895	25.881727	-1093.12	2374.38

2.4 Star Slots

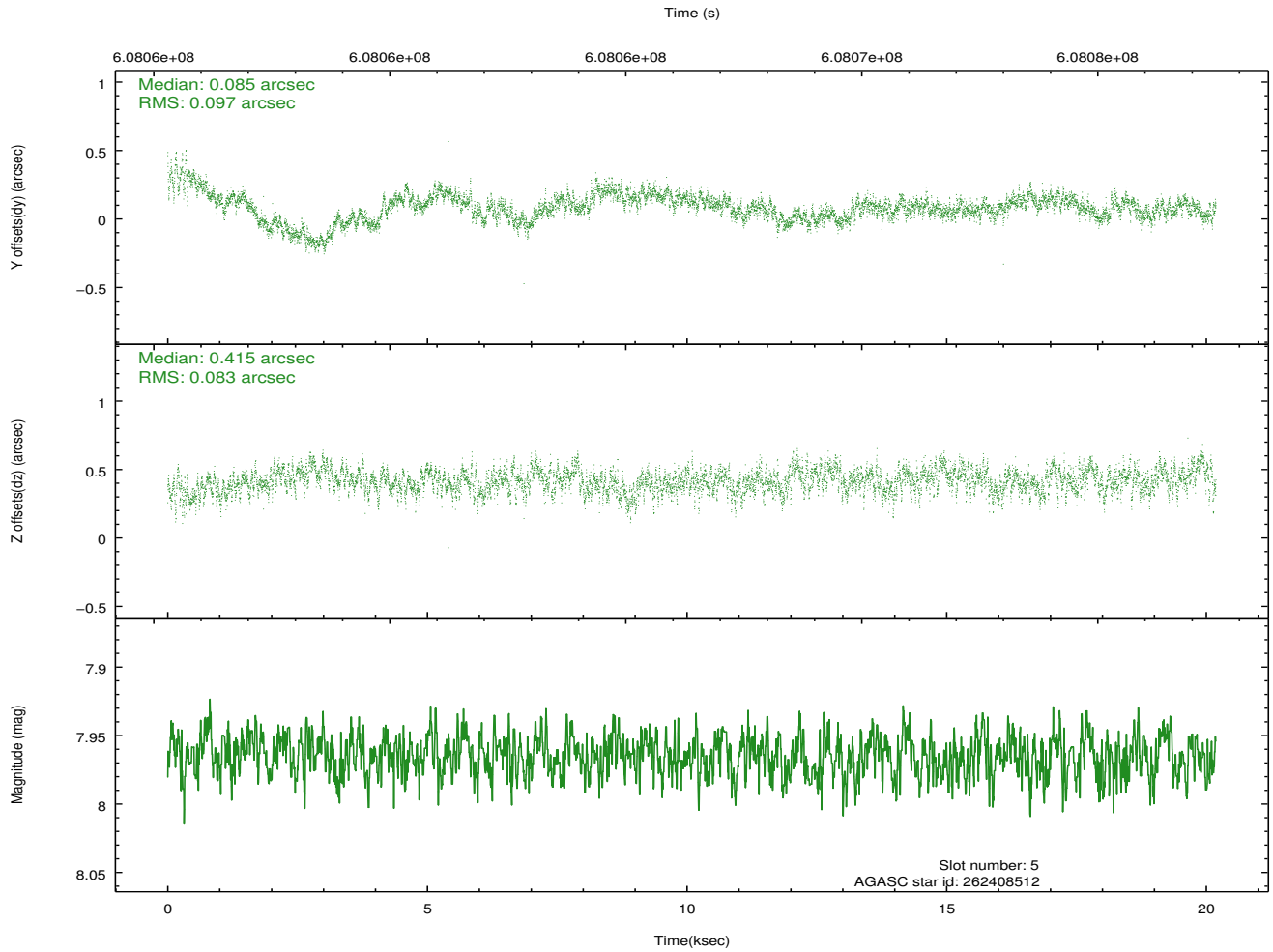
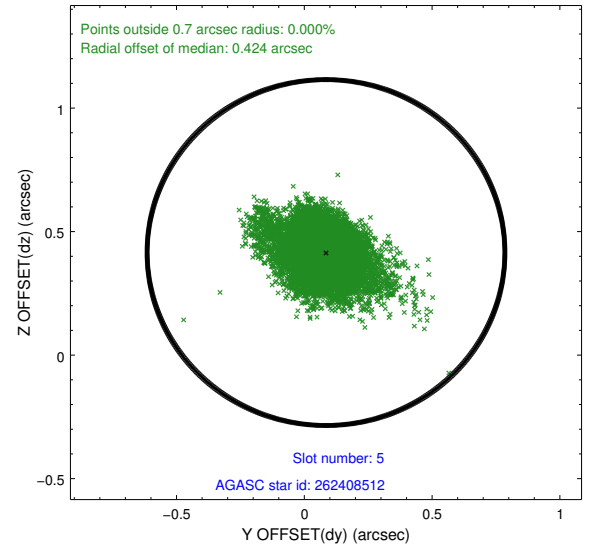
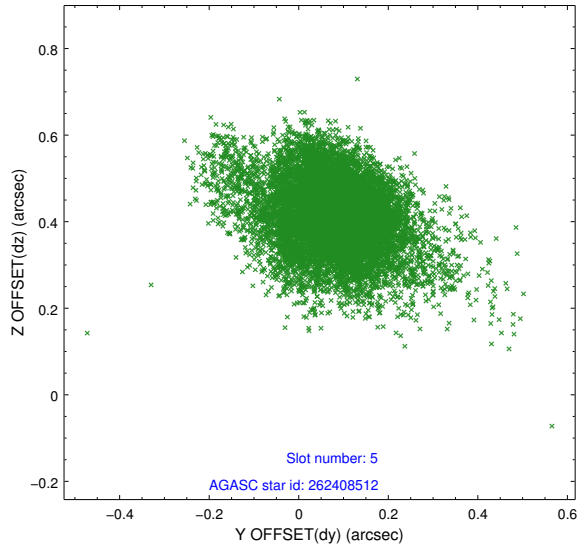
2.4.1 Slot 3



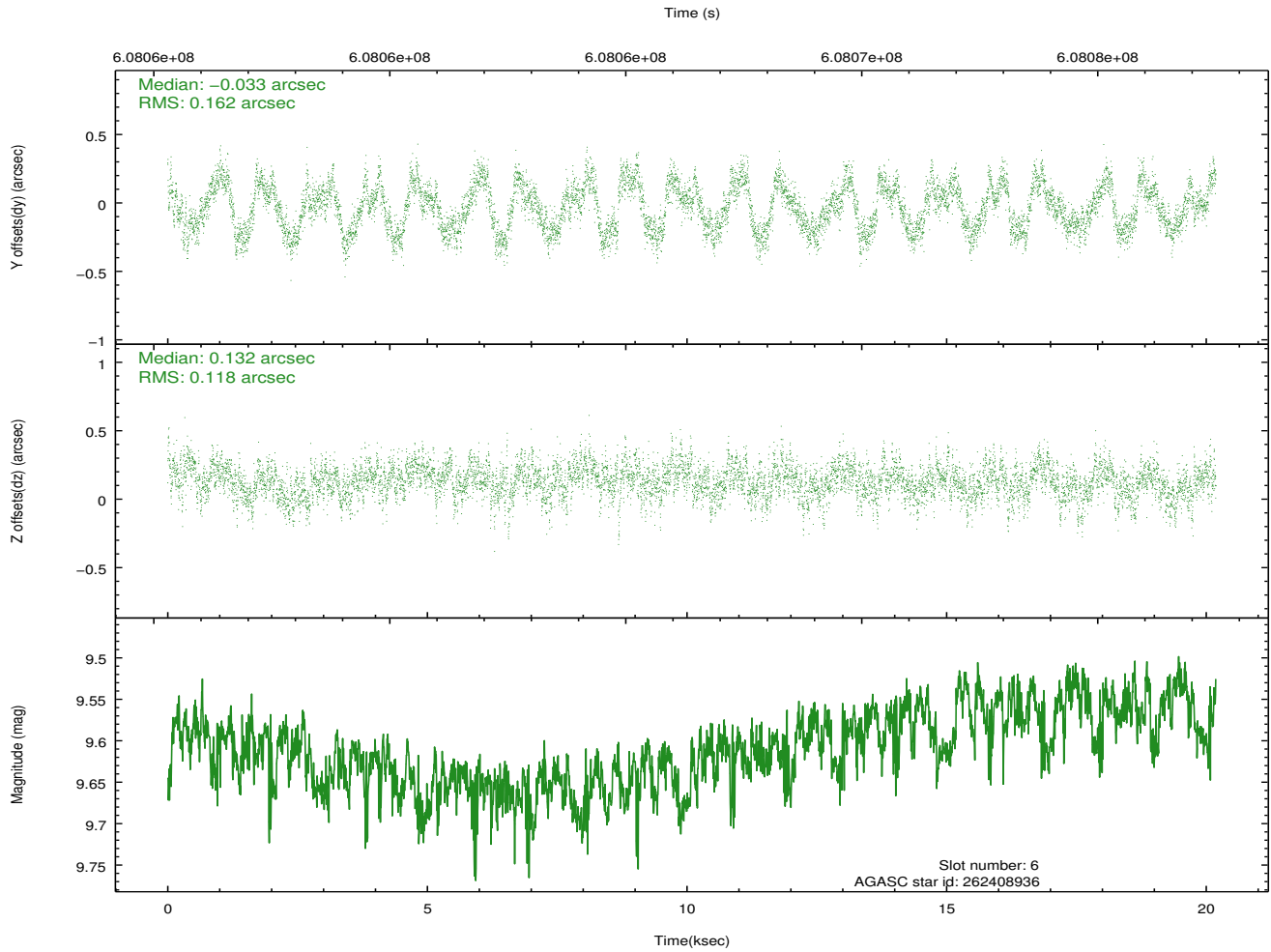
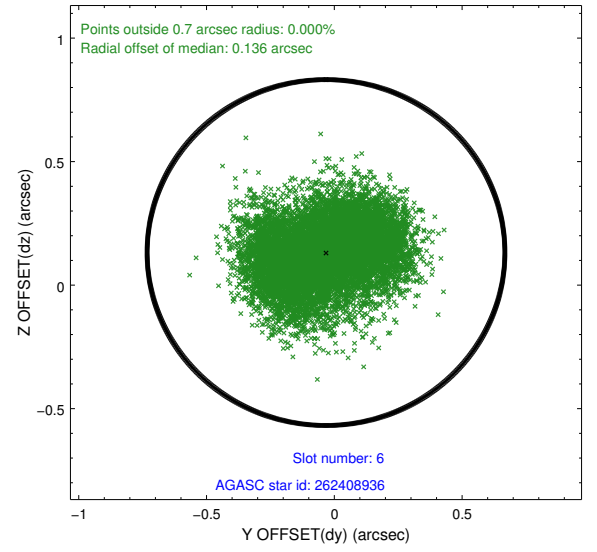
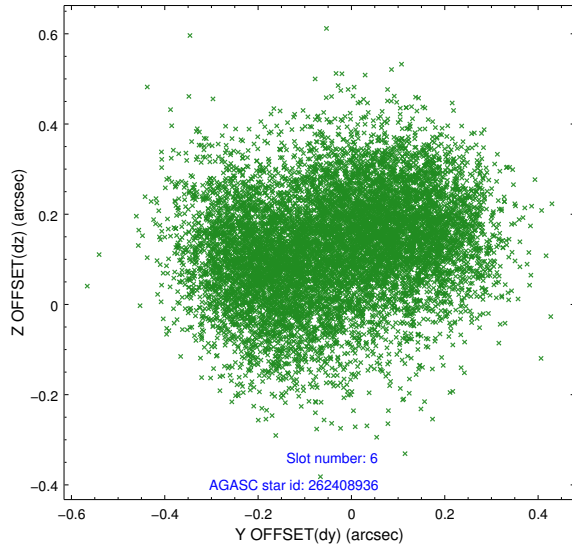
2.4.2 Slot 4



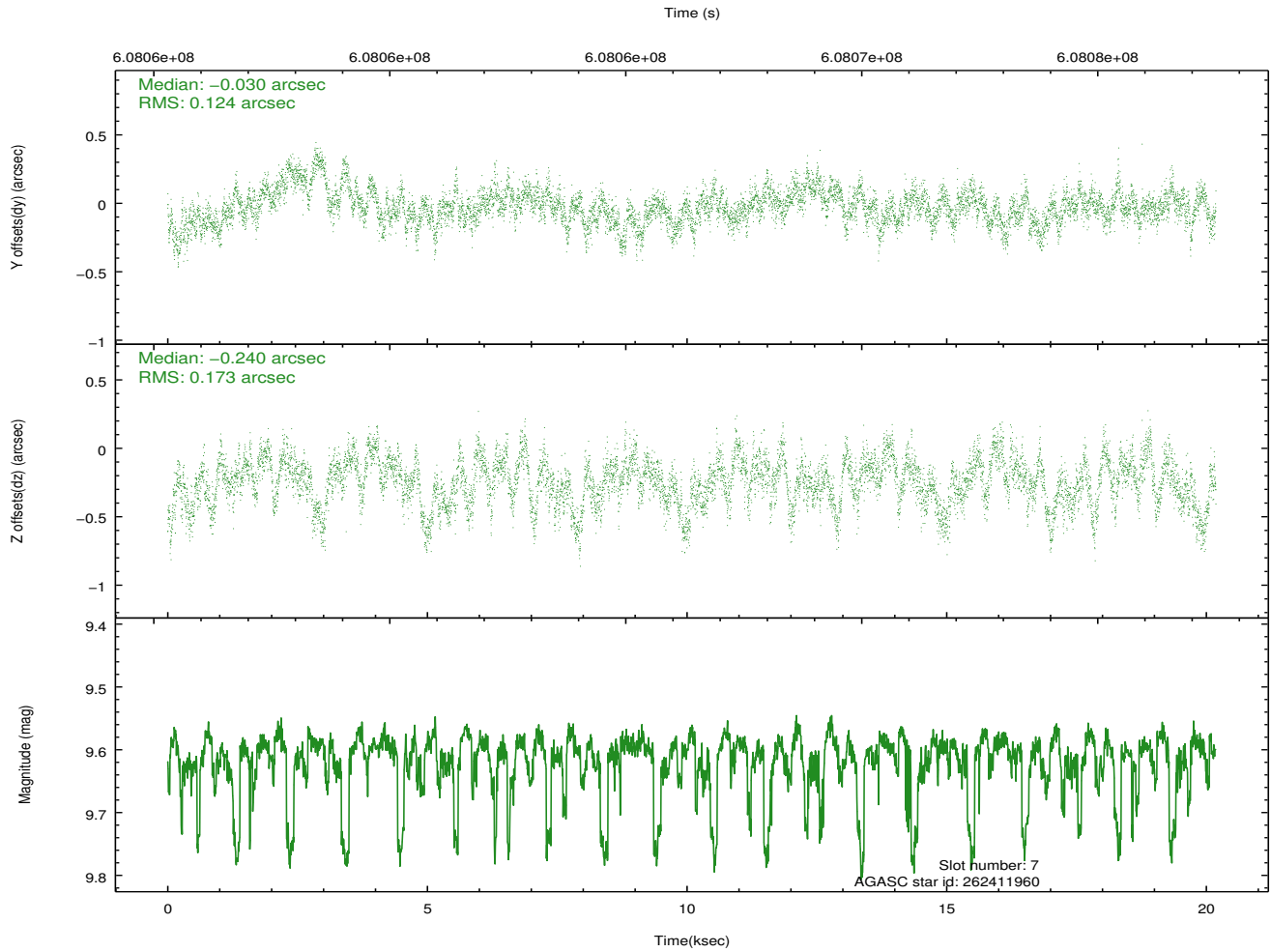
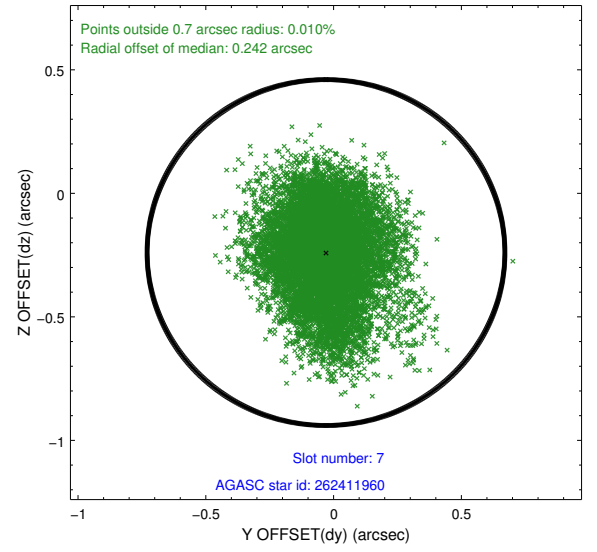
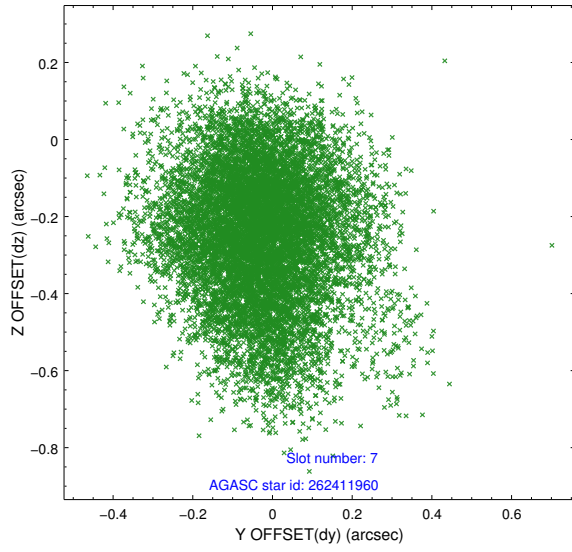
2.4.3 Slot 5



2.4.4 Slot 6

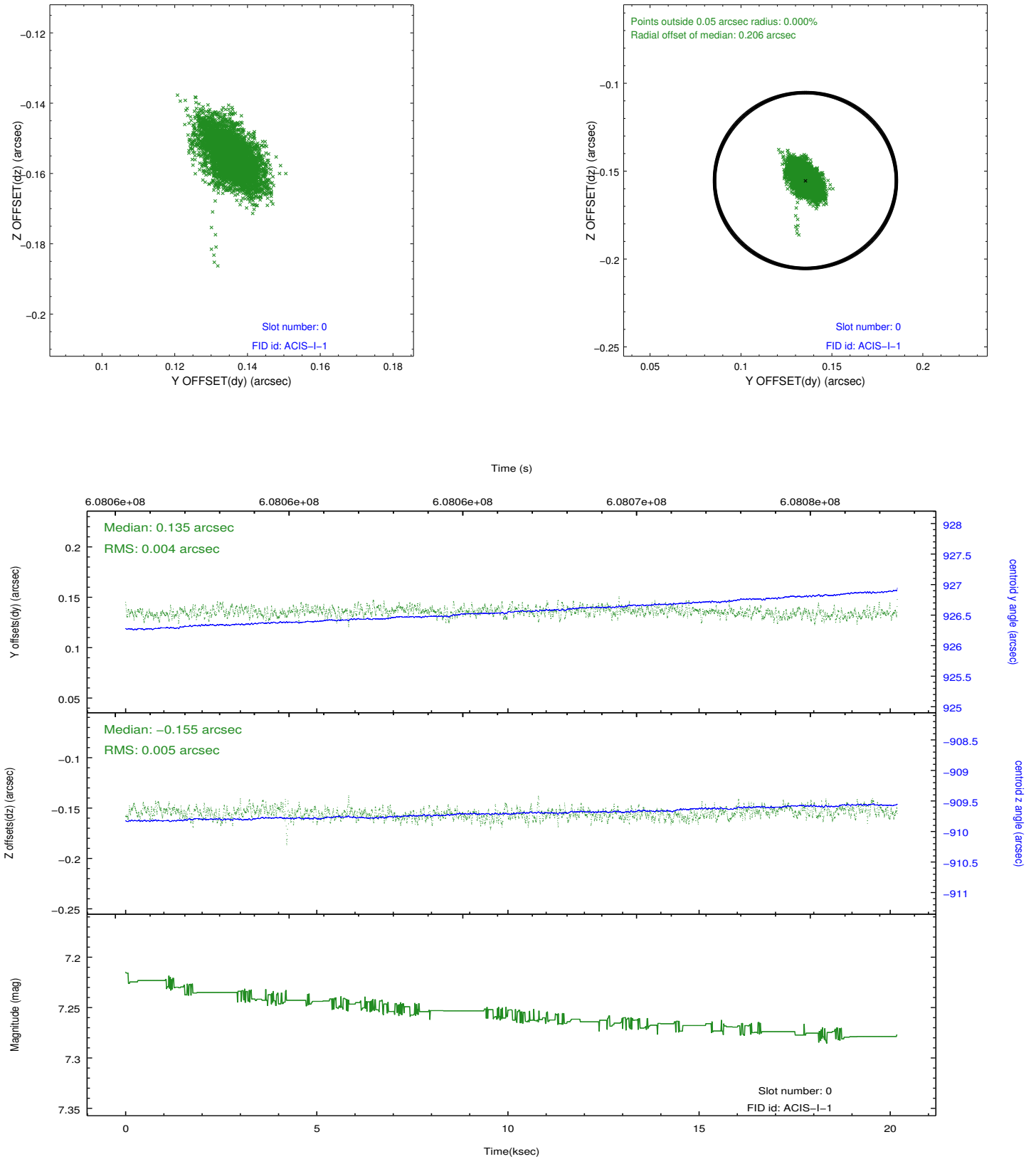


2.4.5 Slot 7

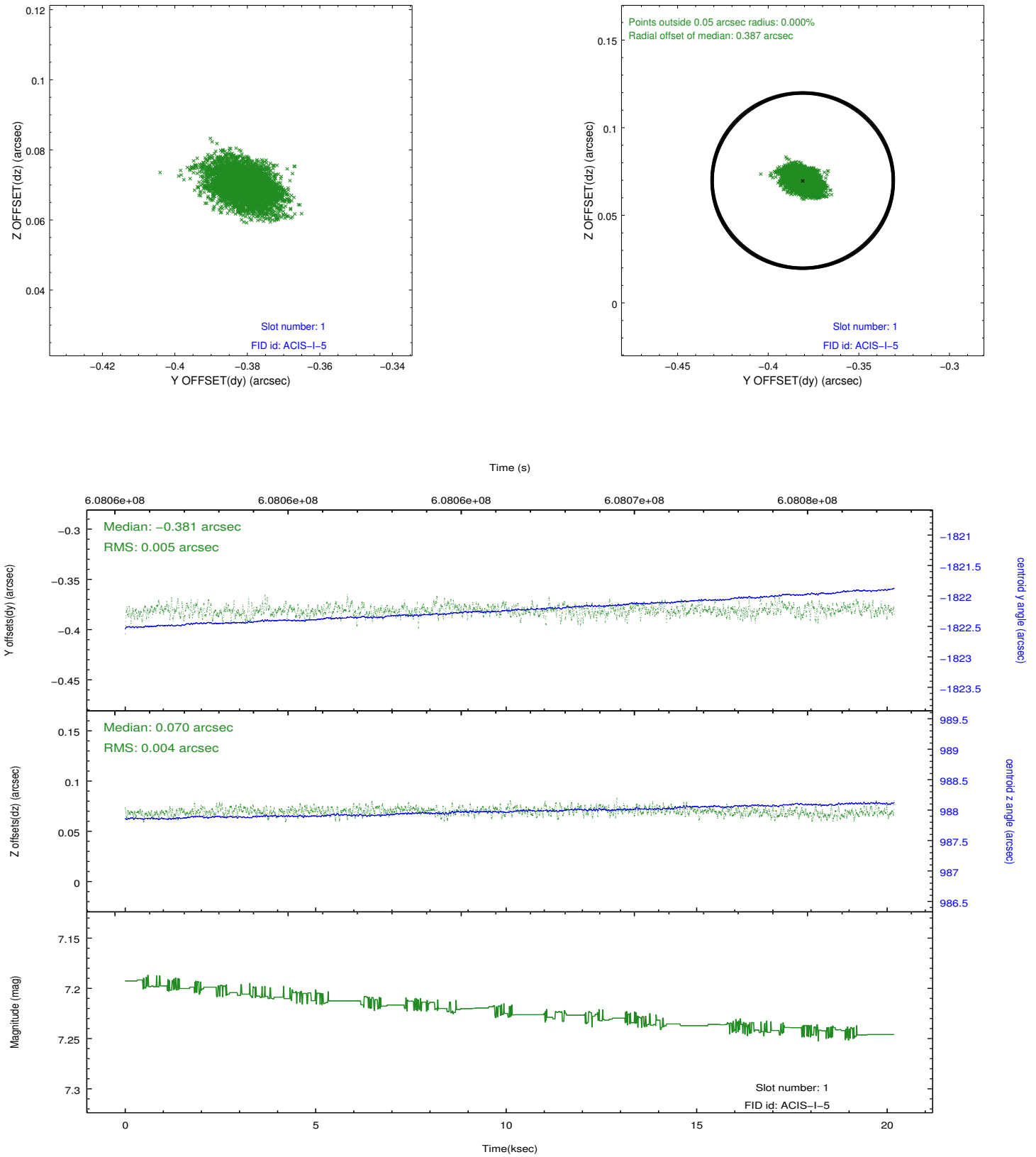


2.5 FID Slots

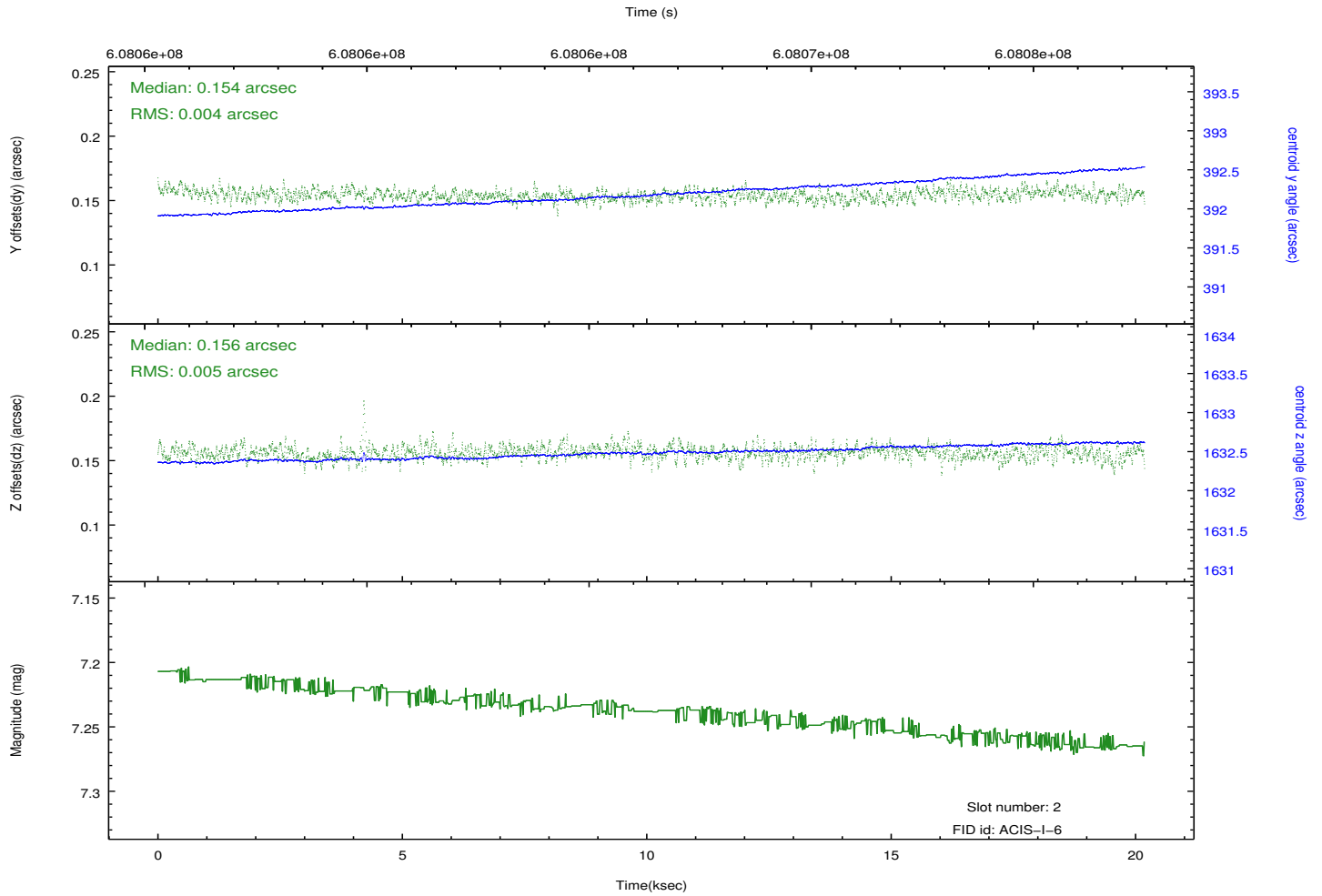
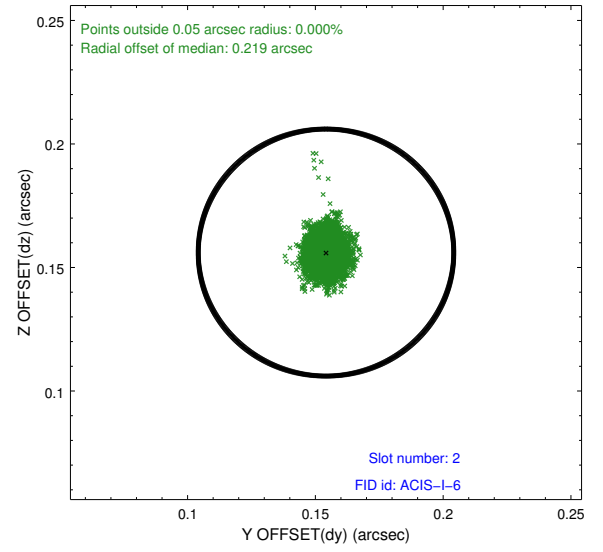
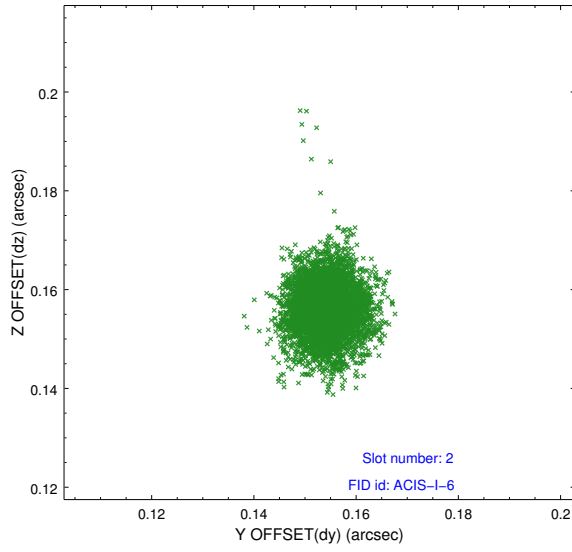
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.790400152326

A.2 Comments

Window preference met.

One optional chip was dropped.