

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21867 - L2 Version 1
Chandra X-Ray Center

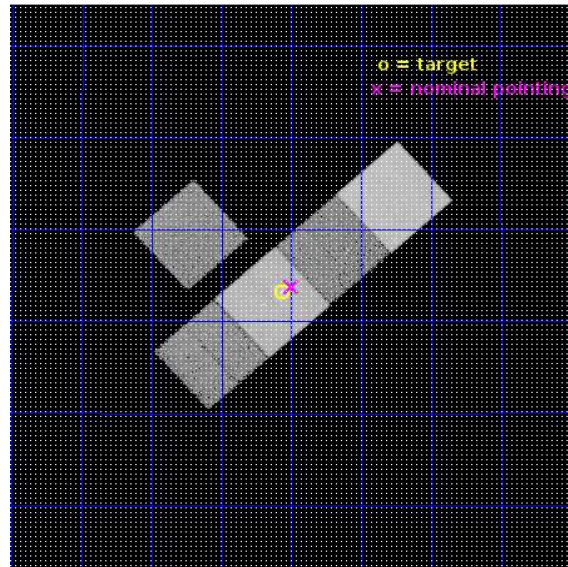
L2 Processing Date : Mar 14 2019

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1 Front

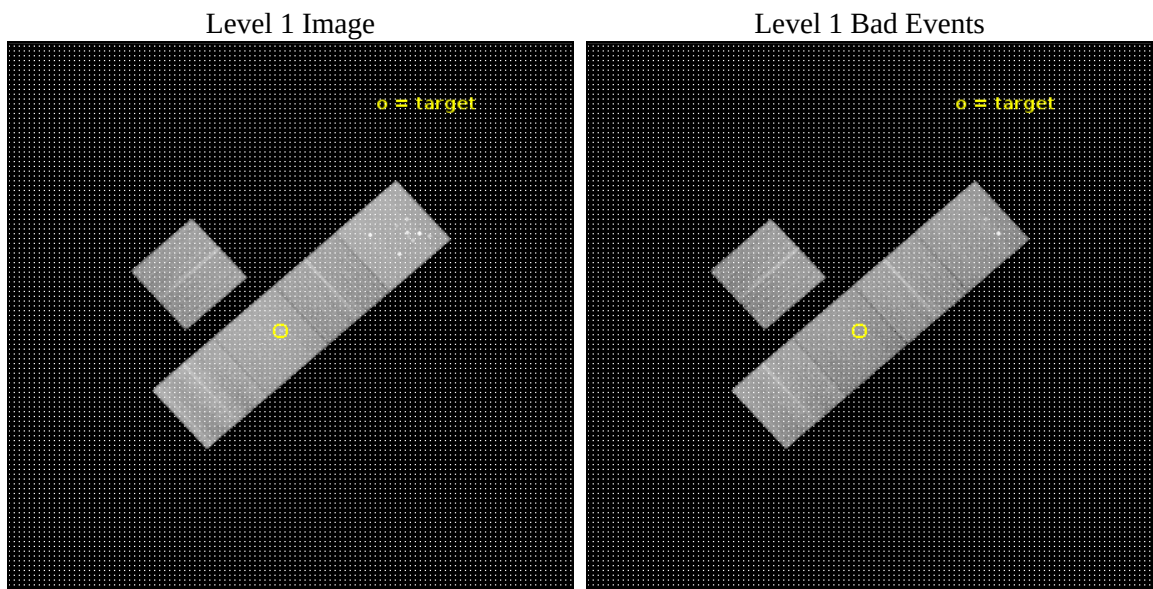
seq_num	801753	Sequence number
obs_id	21867	Observation id
title	Fuelling and self-regulation of AGN feedback at the Bondi radius of M84	Proposal title
observer	Helen Russell	Principal investigator
object	M84	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.265833	Observer's specified target RA [deg]
dec_targ	12.886944	Observer's specified target Dec [deg]
ra_nom	186.24983931367	Nominal RA [deg]
dec_nom	12.896553018862	Nominal Dec [deg]
roll_nom	138.1601811044	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23940.32499671	Sum of GTIs [s]
livetime	23627.527026017	Livetime [s]
ontime3	23937.060786366	Sum of GTIs [s]
ontime5	23940.283956766	Sum of GTIs [s]
ontime6	23937.101976156	Sum of GTIs [s]
ontime7	23940.32499671	Sum of GTIs [s]
ontime8	23940.160836697	Sum of GTIs [s]
l2events	310016	Number of level 2 events



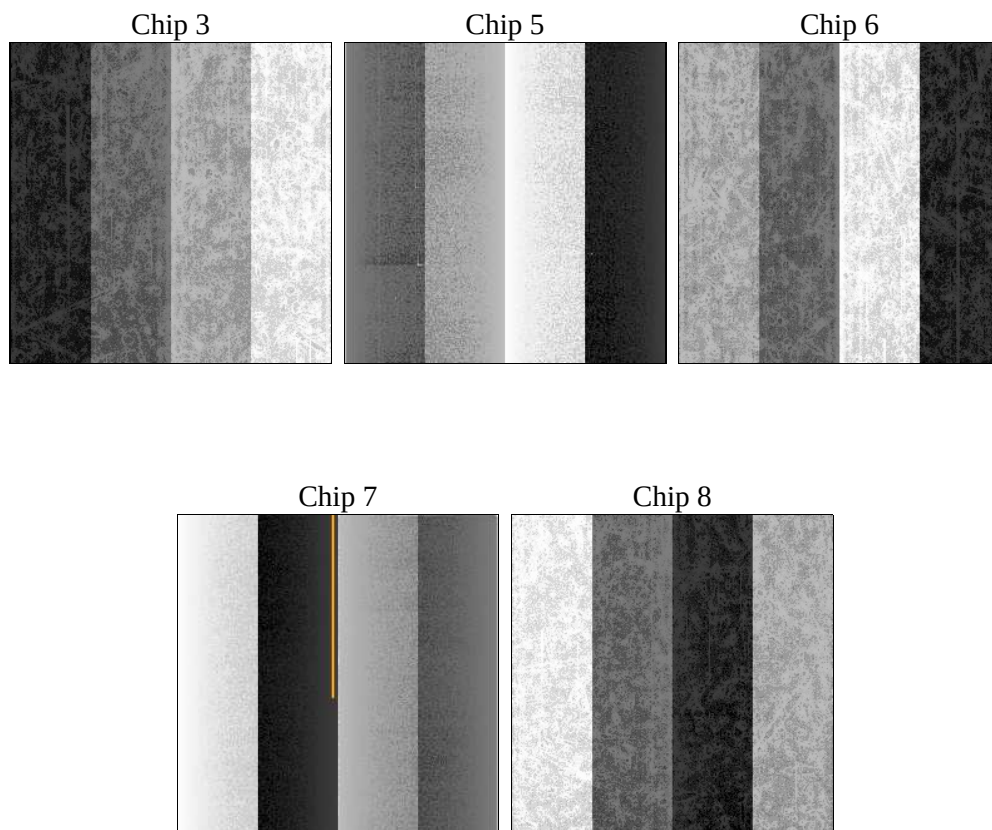
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23888.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	23940.32499671	Sum of GTIs [s]
caldbver	4.8.2	 	ontime3	23937.060786366	Sum of GTIs [s]
date	2019-03-14T04:14:52	Date and time of file creation	ontime5	23940.283956766	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	23937.101976156	Sum of GTIs [s]
			ontime7	23940.32499671	Sum of GTIs [s]
			ontime8	23940.160836697	Sum of GTIs [s]
			l1events	1180794	Number of level 1 events

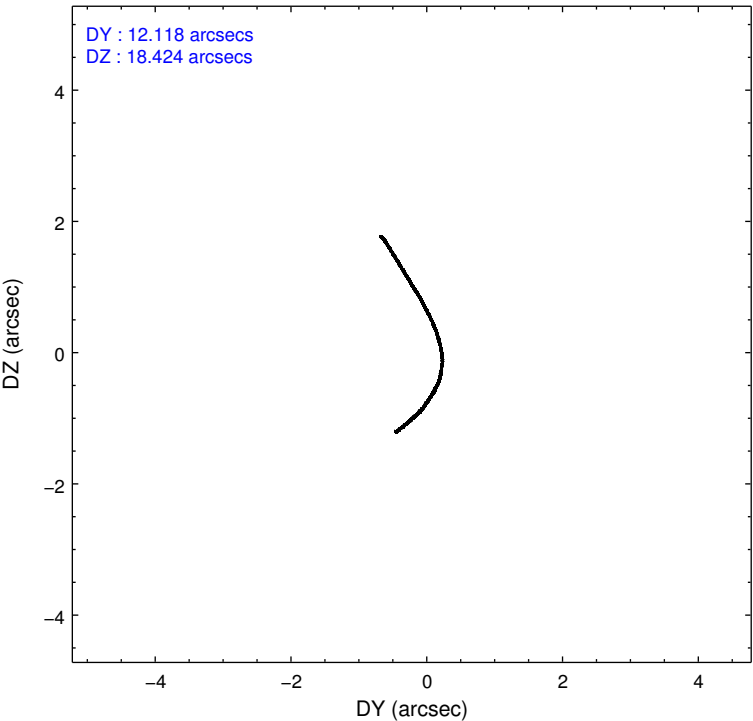
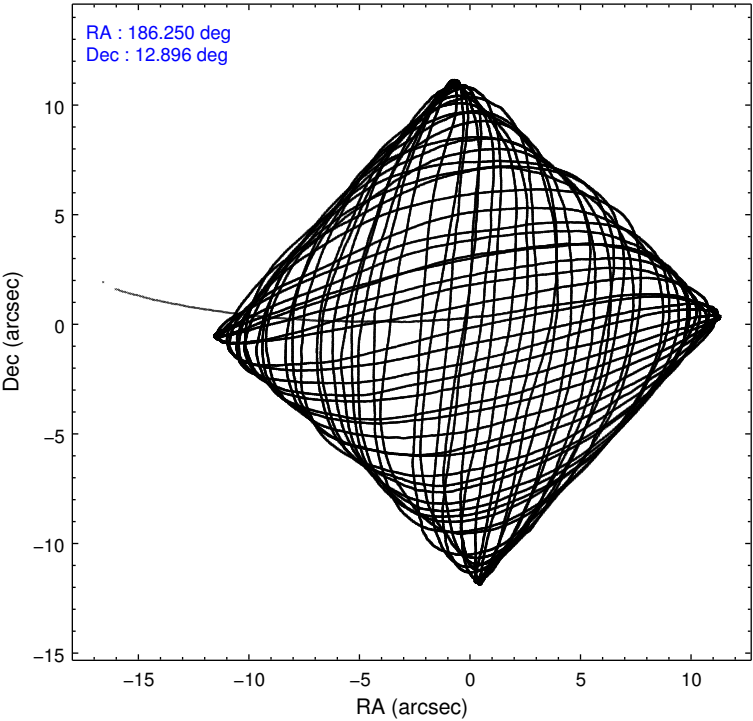
2.1.4 Events

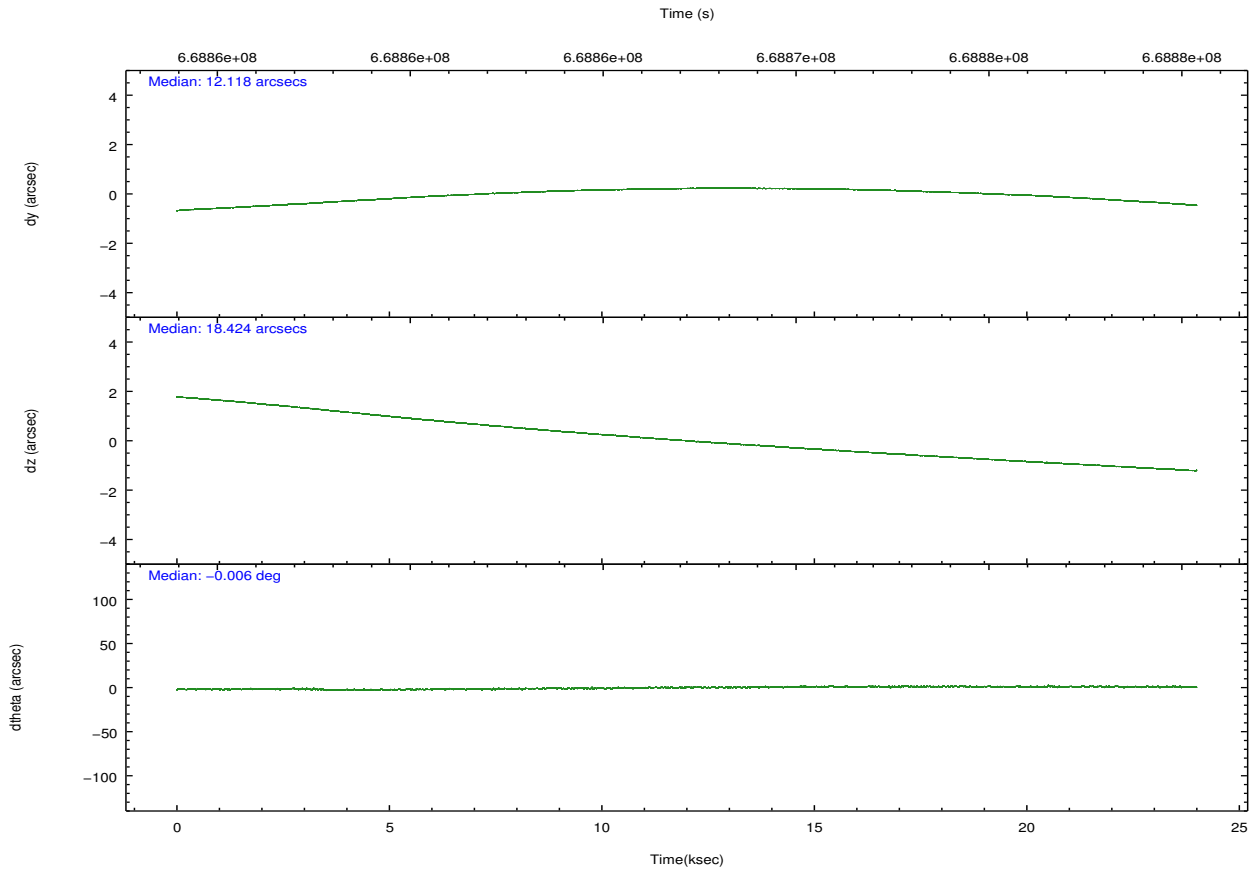
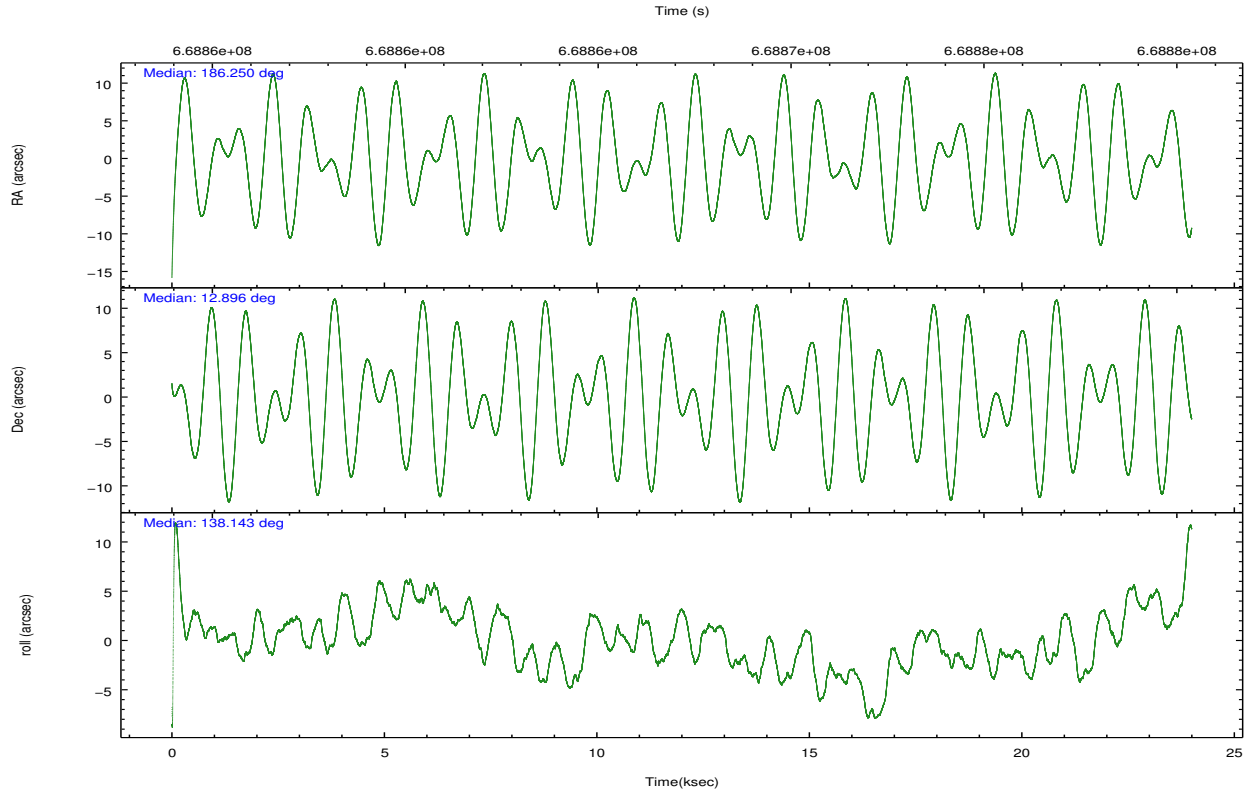
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176581	323119	188722	245715	246657	grade 0 events	12234	23976	8227	10759	20459
rejected events	151088	159341	166062	135893	177692		6%	7%	4%	4%	8%
rejected %	85%	49%	87%	55%	72%	grade 1 events	121	710	95	338	214
							0%	0%	0%	0%	0%
						grade 2 events	4847	53179	5226	23870	16772
							2%	16%	2%	9%	6%
						grade 3 events	2075	4901	2139	8905	6974
							1%	1%	1%	3%	2%
						grade 4 events	2147	4227	2052	8746	6377
							1%	1%	1%	3%	2%
						grade 5 events	8501	20747	8614	23692	13128
							4%	6%	4%	9%	5%
						grade 6 events	4193	77518	5018	57559	18385
							2%	23%	2%	23%	7%
						grade 7 events	142463	137861	157351	111846	164348
							80%	42%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	186.277471	186.2498393136671	CCD I2 on	O1	N
[deg] Pointing Dec	12.891277	12.89655301886223	CCD I3 on	Y	Y
[deg] Pointing Roll	137.997397	138.1601811043989	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	O2	Y
[s] Observation start time (MET)	668855281.184000	668853954.96803	CCD S5 on	N	N
Observation start date	2019-03-13T09:06:52	2019-03-13T08:45:54	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	668879169.184000	668880253.3946	On-chip summing requested	N	N
Observation end date	2019-03-13T15:45:00	2019-03-13T16:04:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



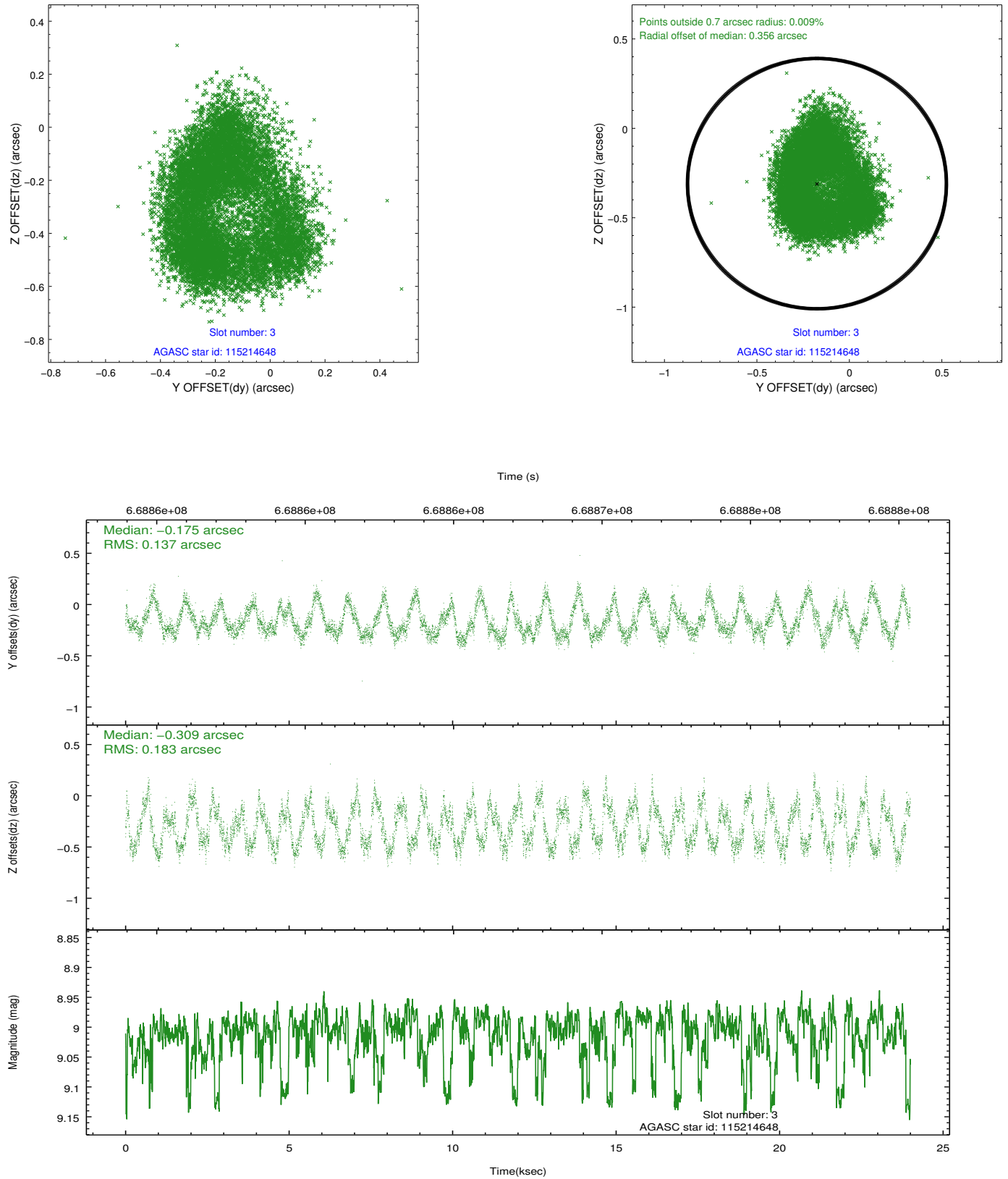


Slot Statistics

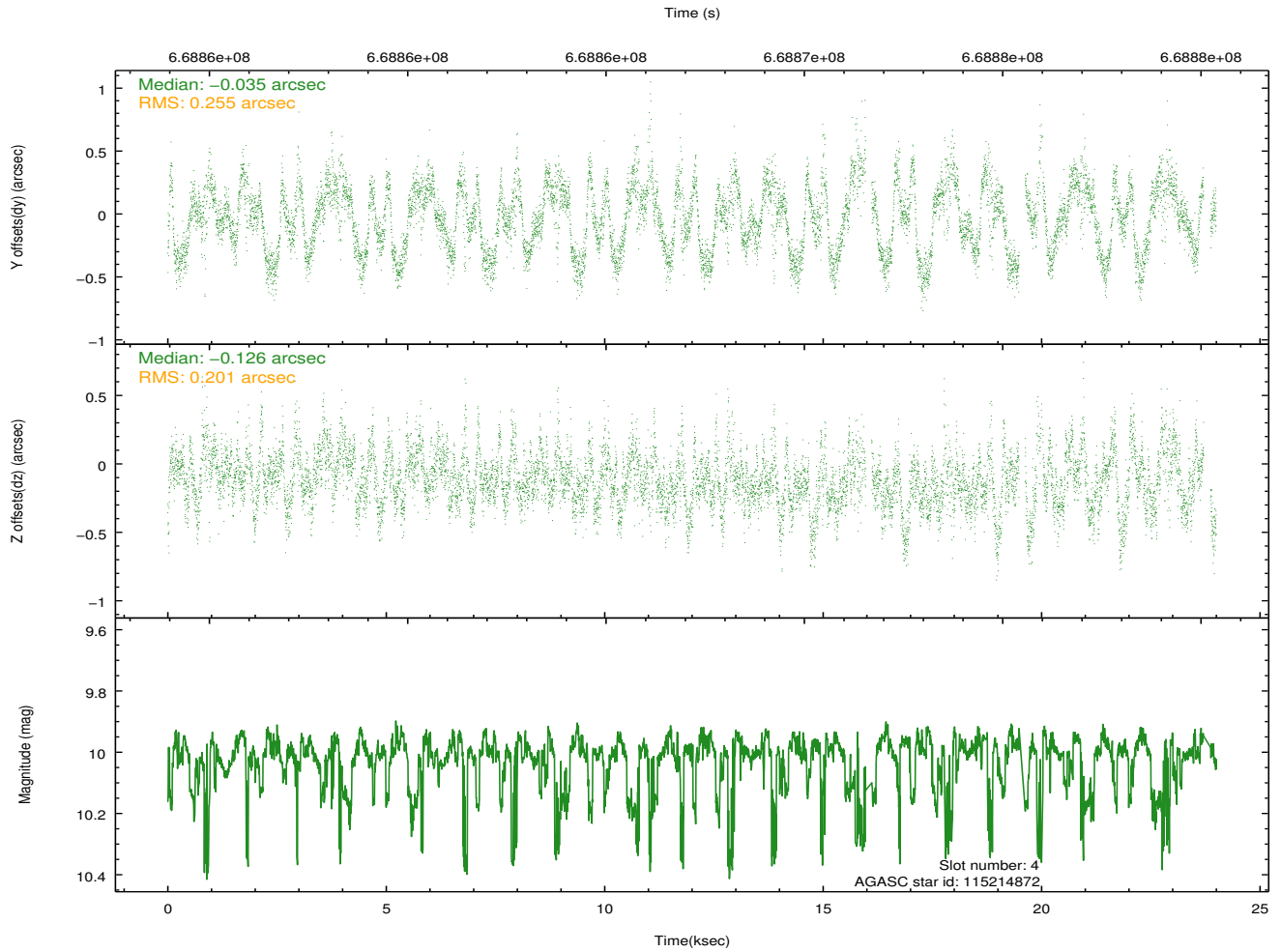
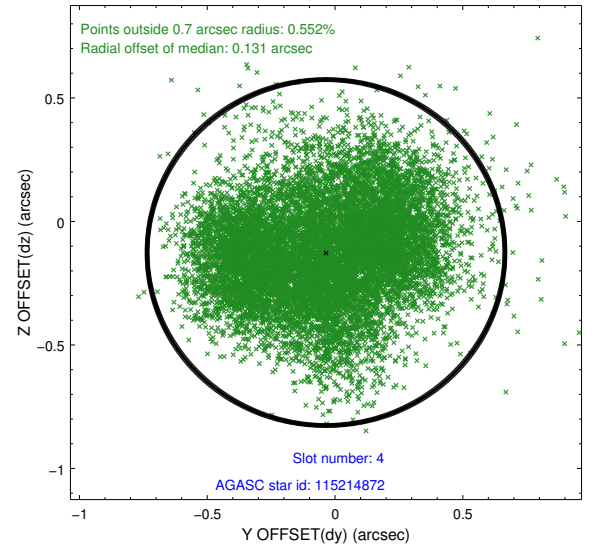
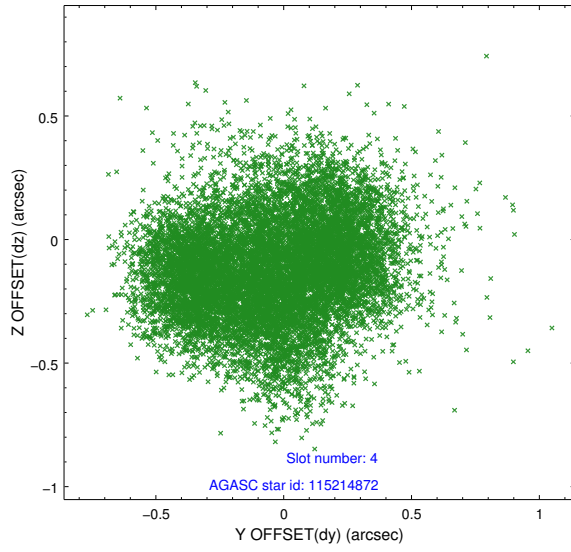
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	5852	1.000	-0.240	-0.163	0.025	0.073	0.000000	0.000000	-765.13	-1740
1	FID		ACIS-S-4	7.12	5853	1.000	0.645	0.160	0.007	0.013	0.000000	0.000000	2148.92	168
2	FID		ACIS-S-5	7.11	5853	1.000	-0.435	0.013	0.028	0.081	0.000000	0.000000	-1818.05	162
3	GUIDE	used	115214648	9.01	11689	1.000	-0.175	-0.309	0.249	0.352	185.771147	12.685188	826.65	1740
4	GUIDE	used	115214872	10.01	11224	1.000	-0.035	-0.126	0.354	0.525	185.840719	12.668185	603.62	1622
5	GUIDE	used	115215984	9.94	11630	1.000	-0.020	0.088	0.346	0.560	186.134733	12.875031	333.31	379
6	GUIDE	used	115216184	9.66	11585	1.000	0.143	-0.159	0.222	0.356	185.973150	12.580247	43.12	1548
7	GUIDE	used	115347480	9.16	11694	1.000	0.090	0.531	0.207	0.315	186.668576	13.310410	-6.51	-2038

2.4 Star Slots

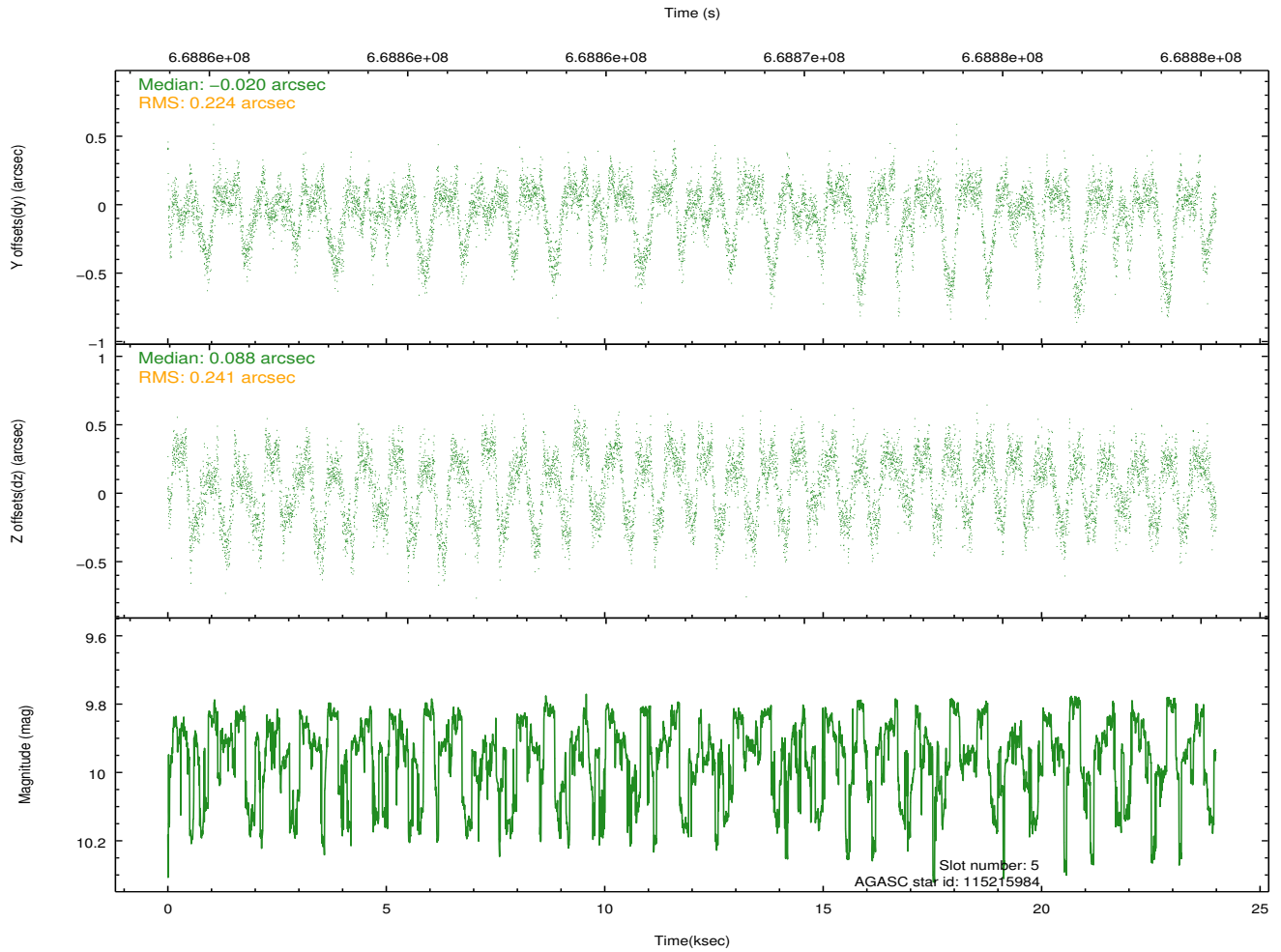
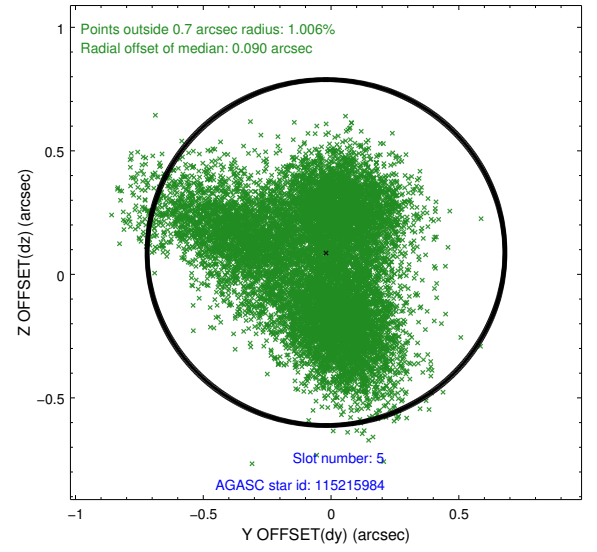
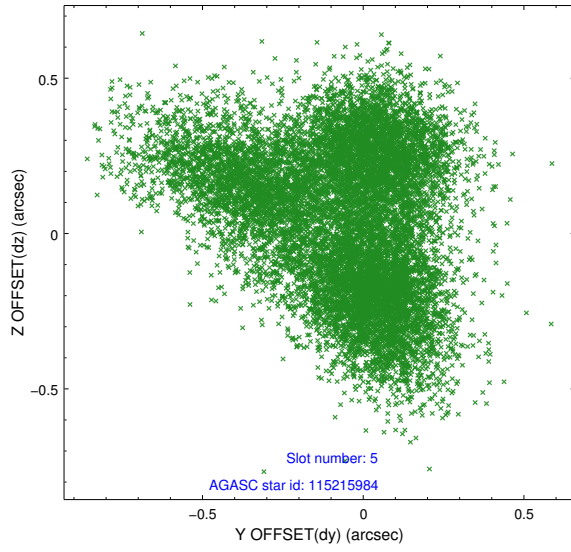
2.4.1 Slot 3



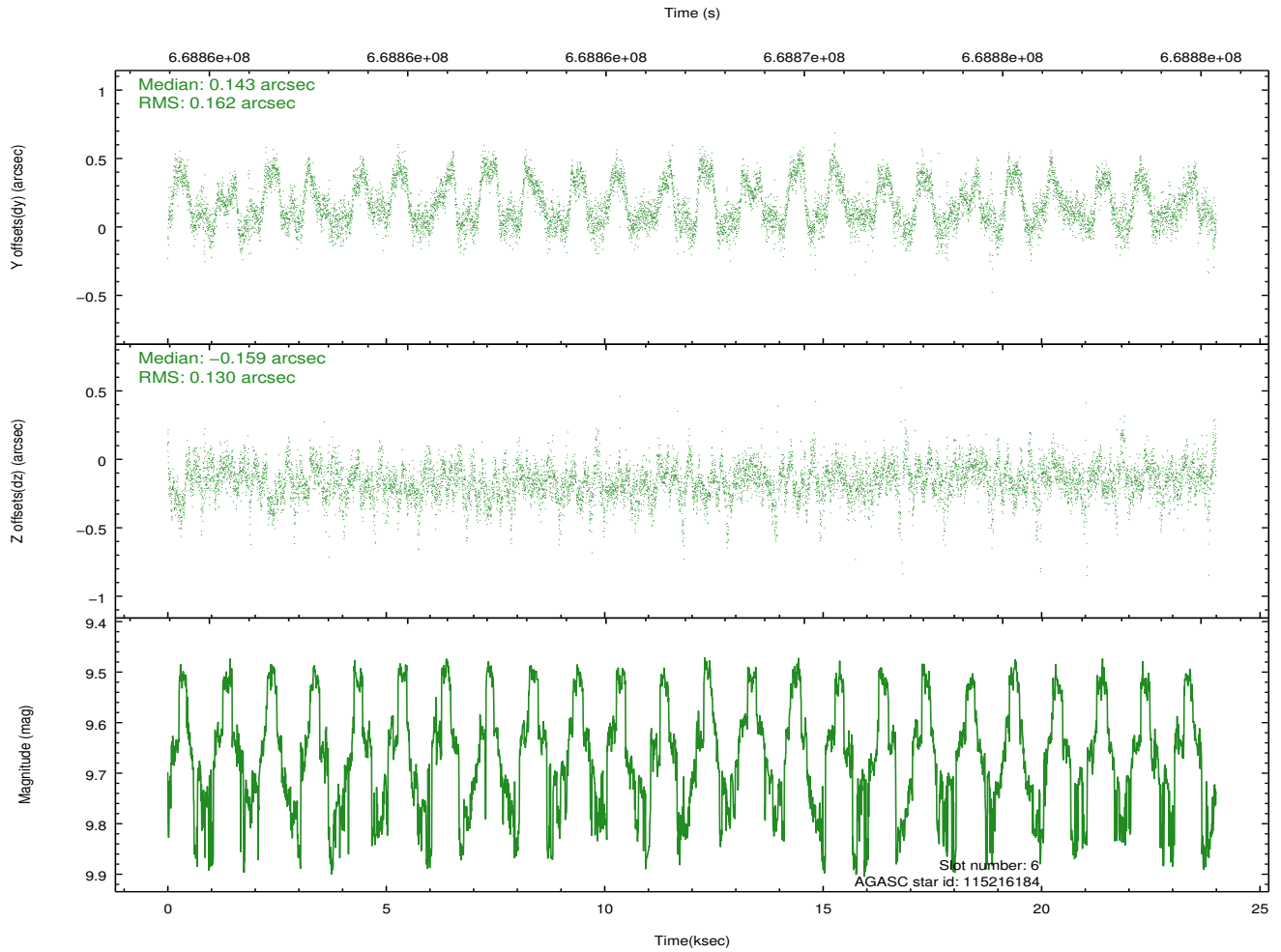
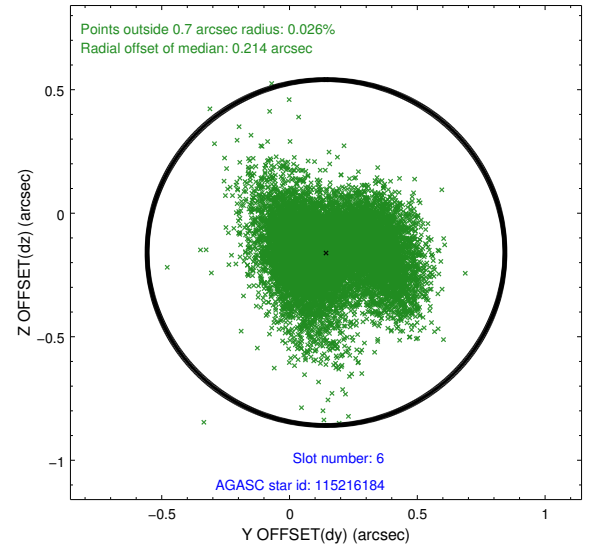
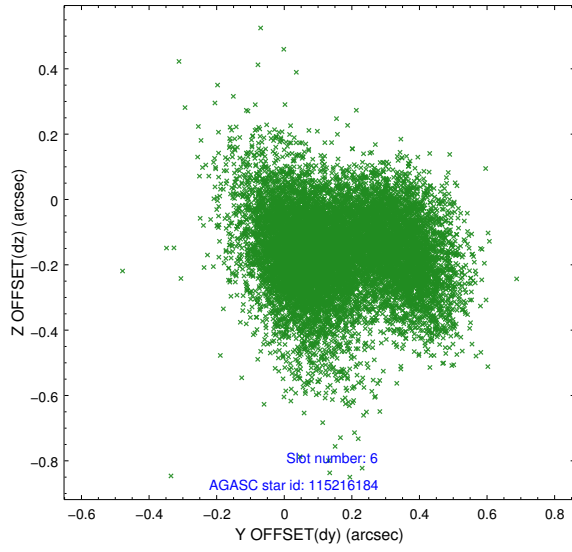
2.4.2 Slot 4



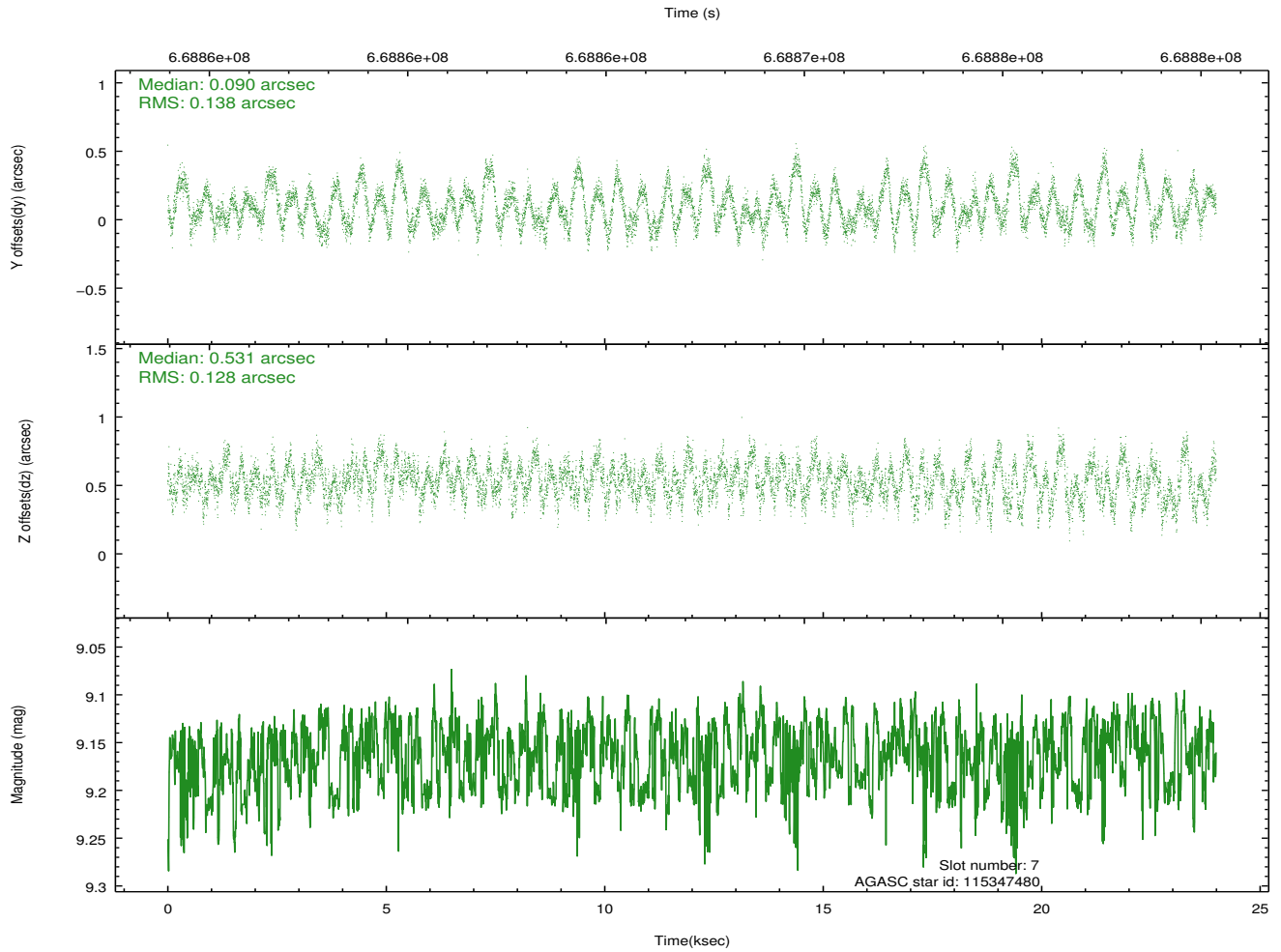
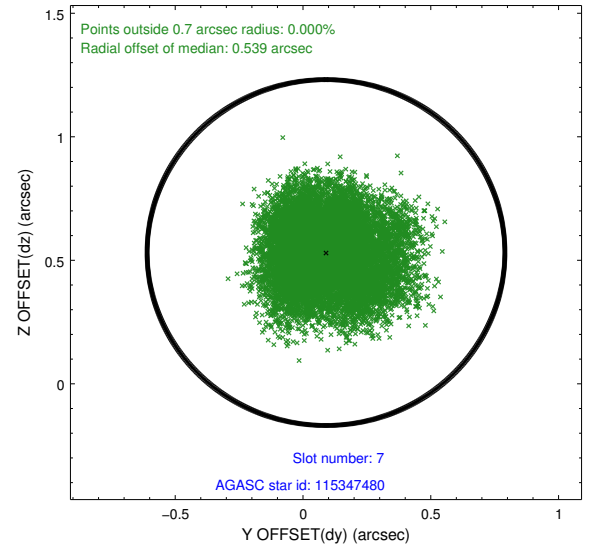
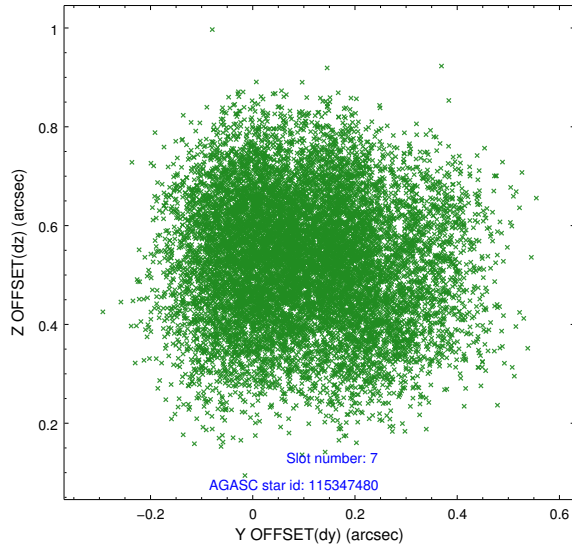
2.4.3 Slot 5



2.4.4 Slot 6

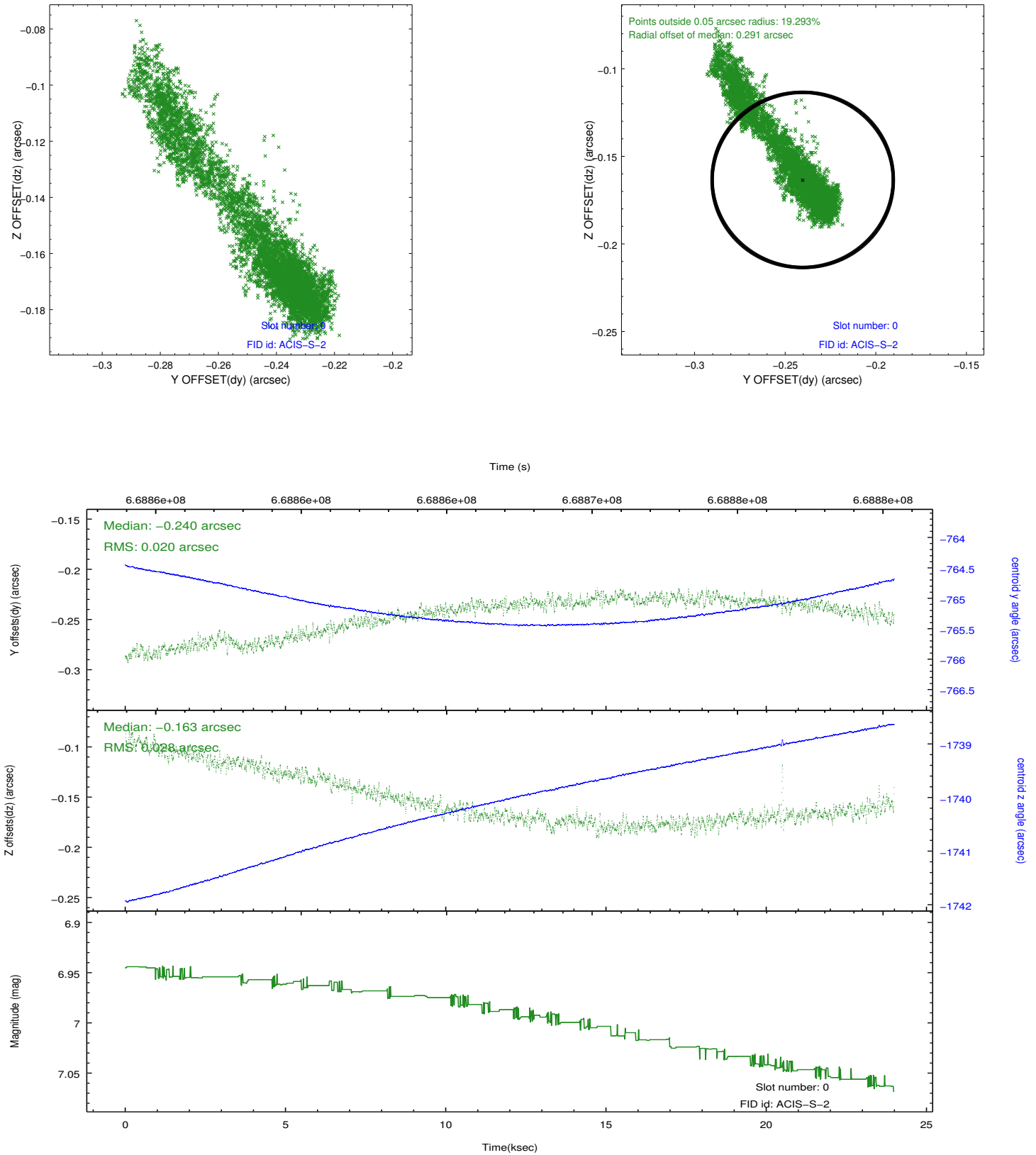


2.4.5 Slot 7

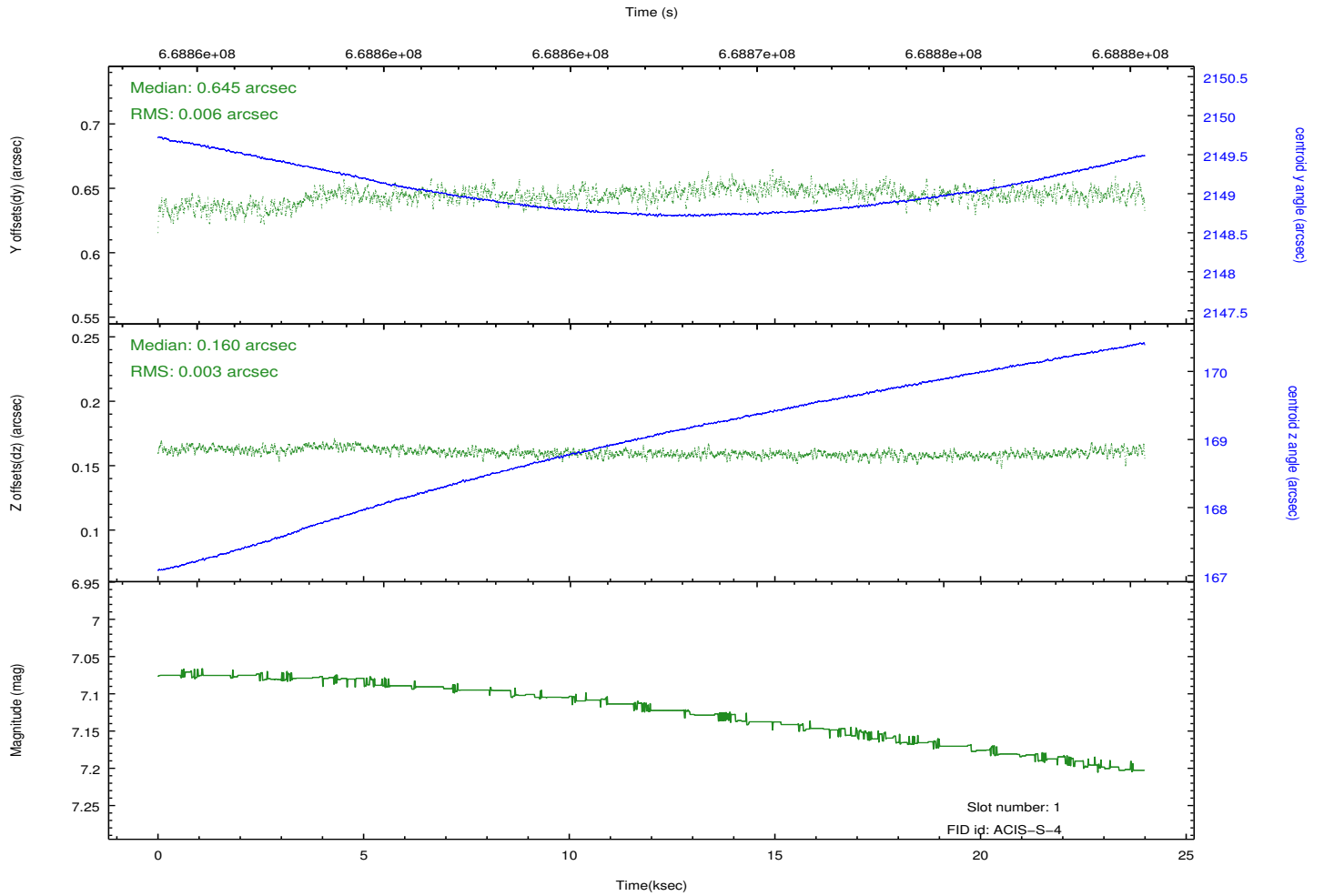
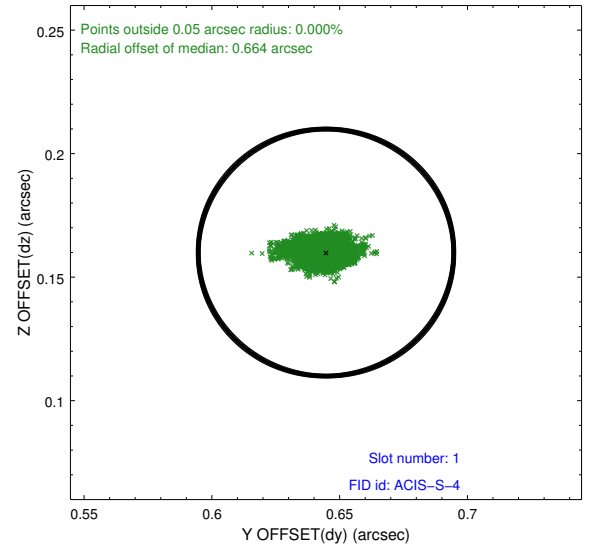
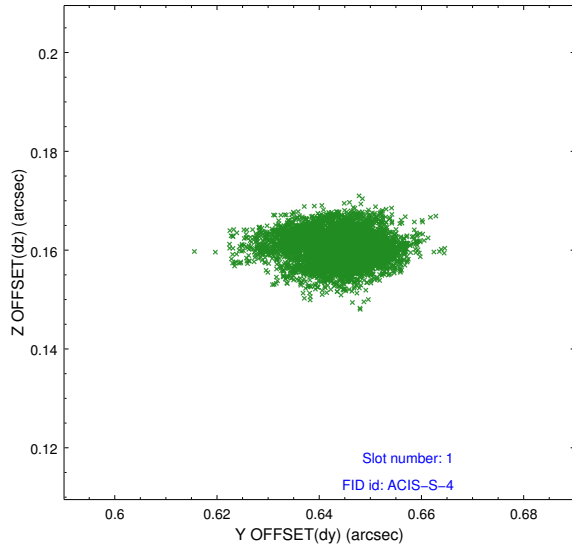


2.5 FID Slots

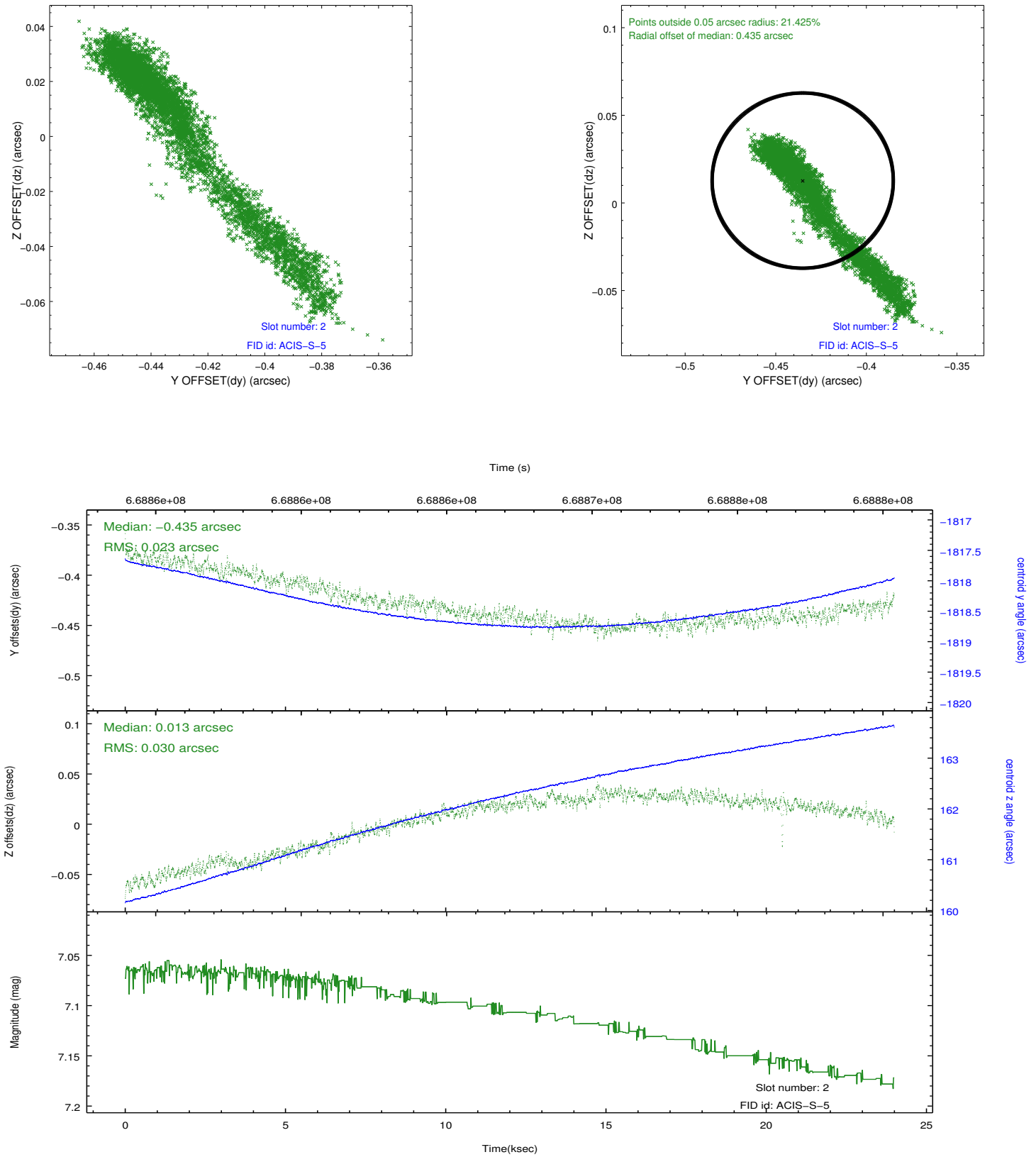
2.5.1 Slot 0



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)	2019.03.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.94032499671

A.2 Comments