

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 15735 - L2 Version 1
Chandra X-Ray Center

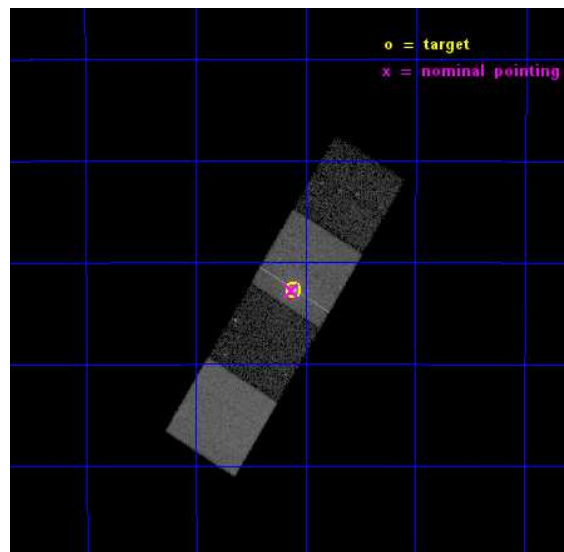
L2 Processing Date : Feb 5 2015

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1 Front

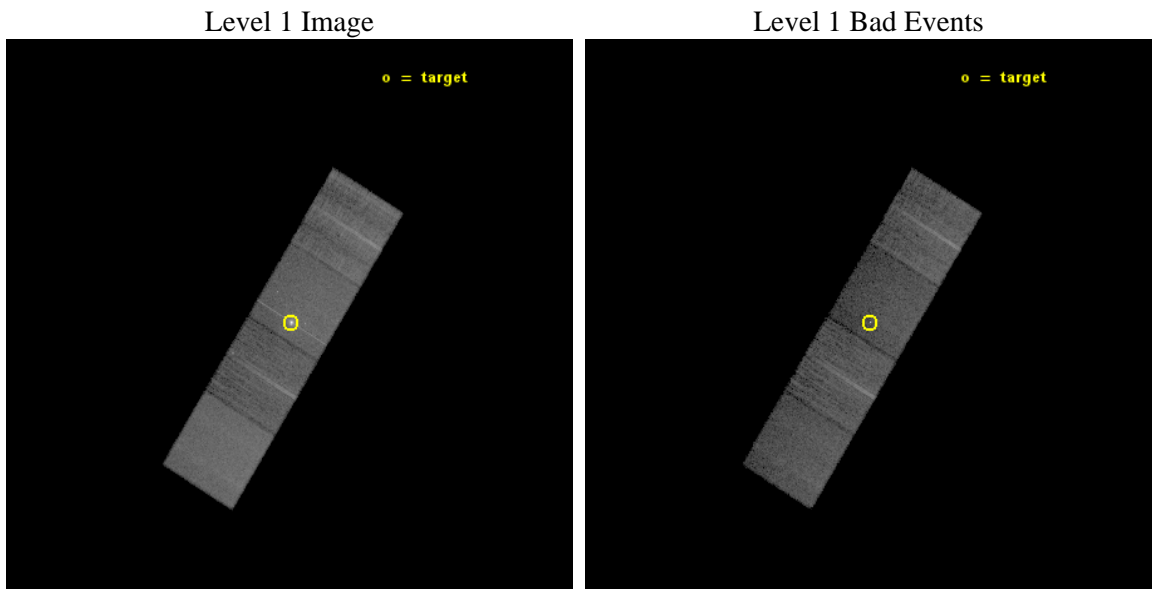
seq_num	300319	Sequence number
obs_id	15735	Observation id
title	Determining the Nature of an 18-minute UV source in NGC 1851	Propo
observer	Dr. David Pooley	Principal investigator
object	NGC 1851	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	78.527917	Observer's specified target RA [deg]
dec_targ	-40.046694	Observer's specified target Dec [deg]
ra_nom	78.531947990282	Nominal RA [deg]
dec_nom	-40.046796779359	Nominal Dec [deg]
roll_nom	301.45922377059	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20063.200154424	Sum of GTIs [s]
livetime	19801.059674093	Livetime [s]
ontime5	20063.200154424	Sum of GTIs [s]
ontime6	20063.200154424	Sum of GTIs [s]
ontime7	20063.200154424	Sum of GTIs [s]
ontime8	20060.059164286	Sum of GTIs [s]
l2events	150910	Number of level 2 events



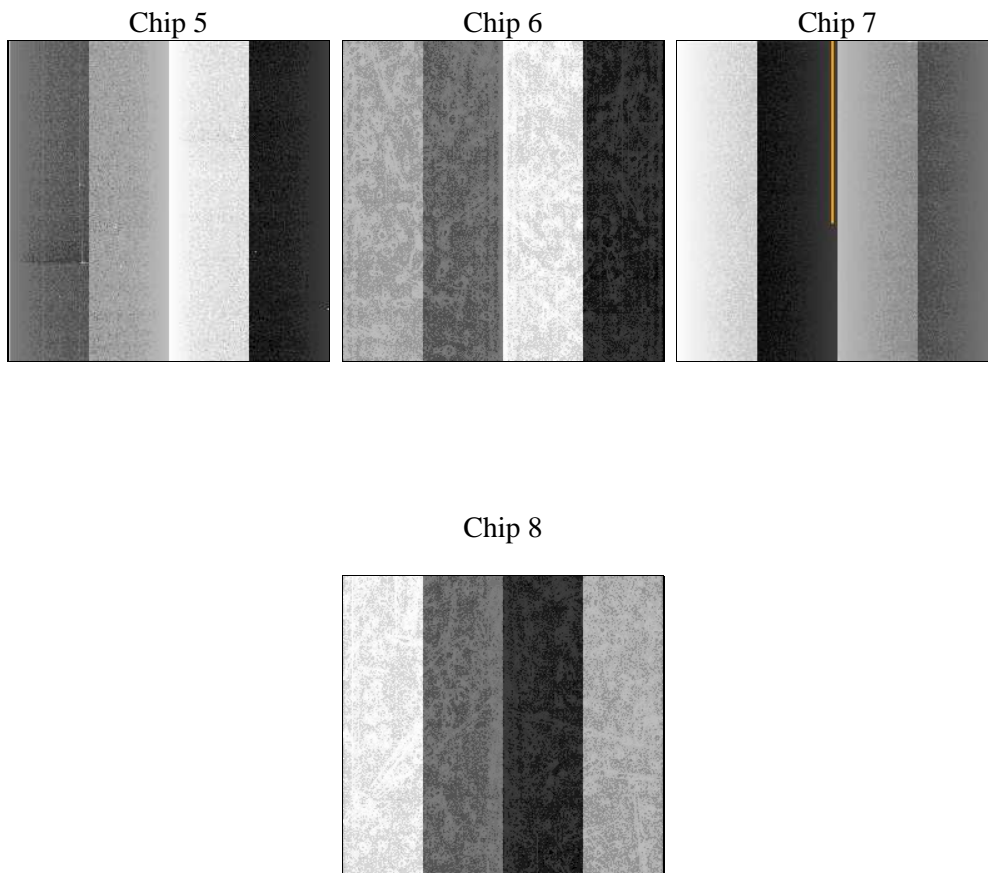
2 OBI

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	10.3.3	Processing system revision	ontime	20063.200154424	Sum of GTIs [s]
caldsver	4.6.6	 	ontime5	20063.200154424	Sum of GTIs [s]
date	2015-02-05T15:47:15	Date and time of file creation	ontime6	20063.200154424	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20063.200154424	Sum of GTIs [s]
			ontime8	20060.059164286	Sum of GTIs [s]
			l1events	457132	Number of level 1 events

2.1.4 Events

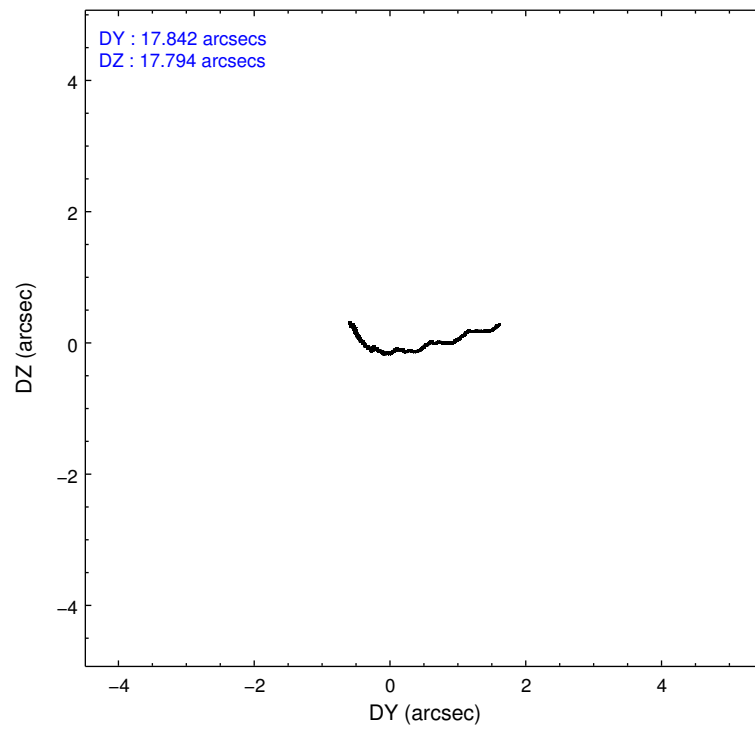
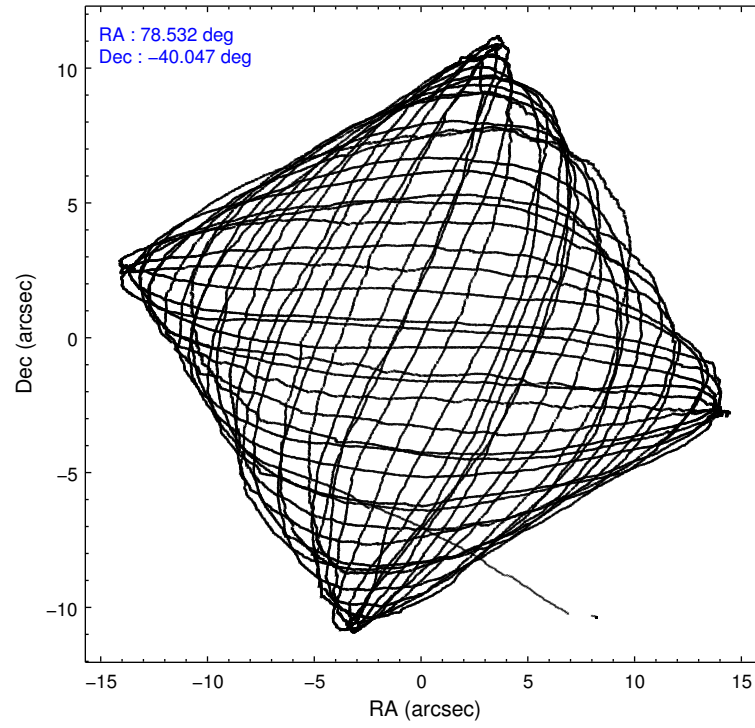
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	130487	86470	124114	116061
rejected events	64164	75124	56794	83256
rejected %	49%	86%	45%	71%

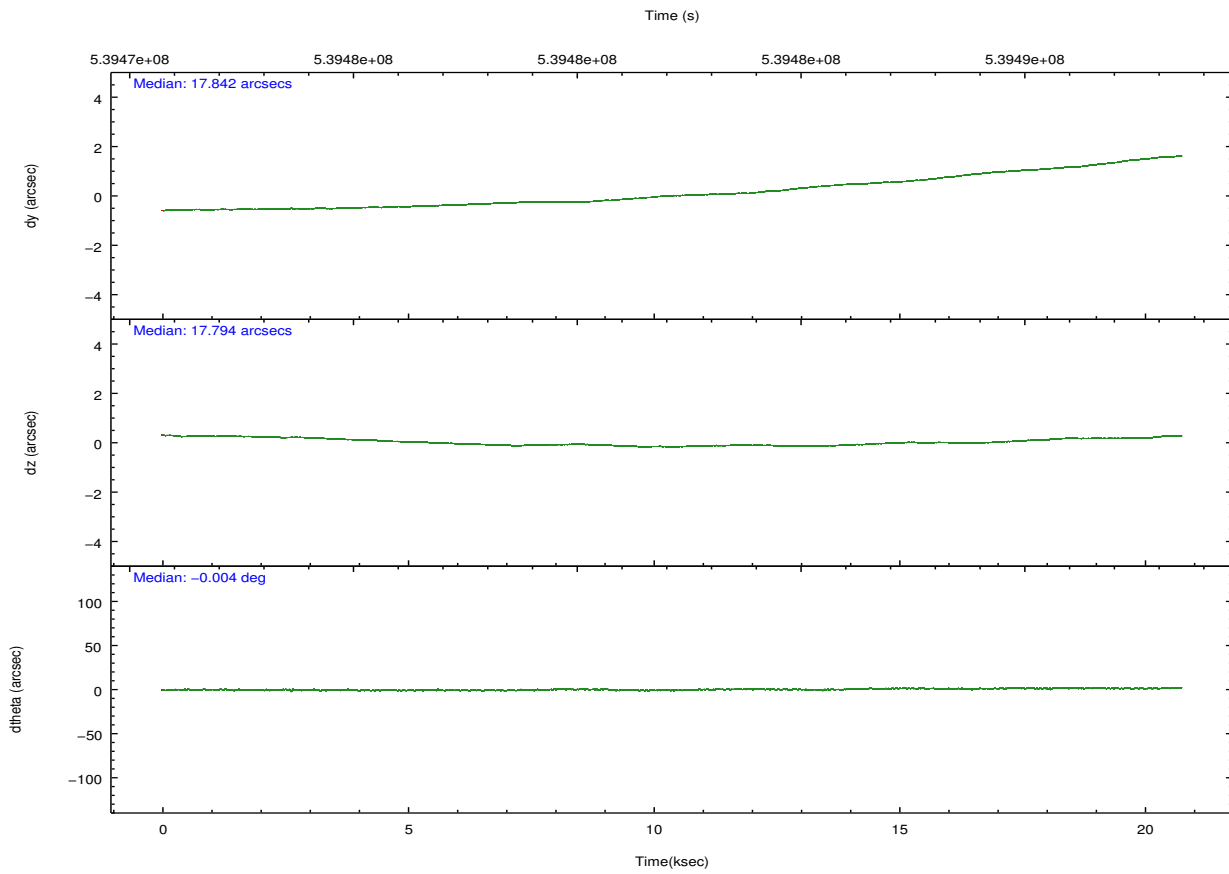
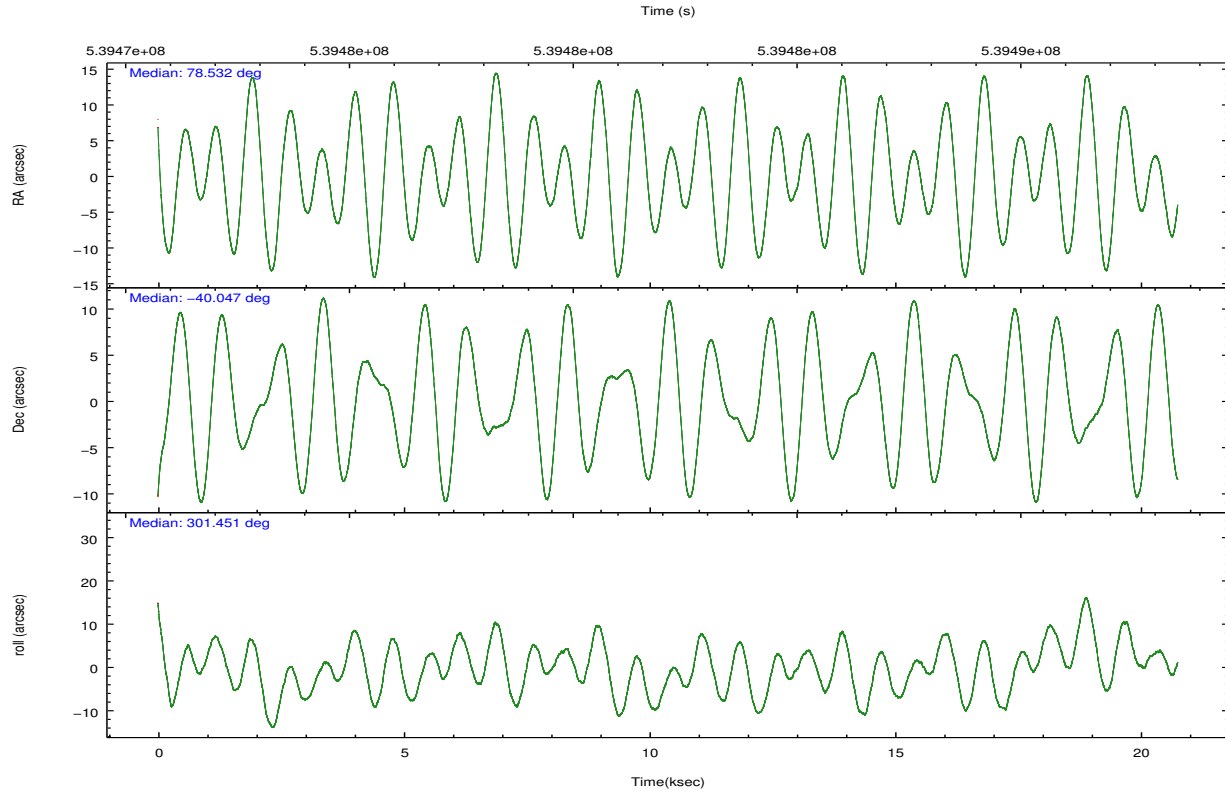
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4239	4175	9166	8953
	3%	4%	7%	7%
grade 1 events	244	45	389	82
	0%	0%	0%	0%
grade 2 events	21143	2500	15195	8057
	16%	2%	12%	6%
grade 3 events	2553	1160	6204	3330
	1%	1%	4%	2%
grade 4 events	2496	1104	6337	3205
	1%	1%	5%	2%
grade 5 events	10067	3883	11645	6050
	7%	4%	9%	5%
grade 6 events	35903	2411	30431	9267
	27%	2%	24%	7%
grade 7 events	53842	71192	44747	77117
	41%	82%	36%	66%

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	78.500264	78.53194799028174	CCD I2 on	N	N
[deg] Pointing Dec	-40.034008	-40.04679677935891	CCD I3 on	N	N
[deg] Pointing Roll	301.282211	301.4592237705944	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	539472480.184000	539470971.34521	CCD S5 on	N	N
Observation start date	2015-02-04T21:26:53	2015-02-04T21:02:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539492480.184000	539493136.45895	On-chip summing requested	N	N
Observation end date	2015-02-05T03:00:13	2015-02-05T03:12:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





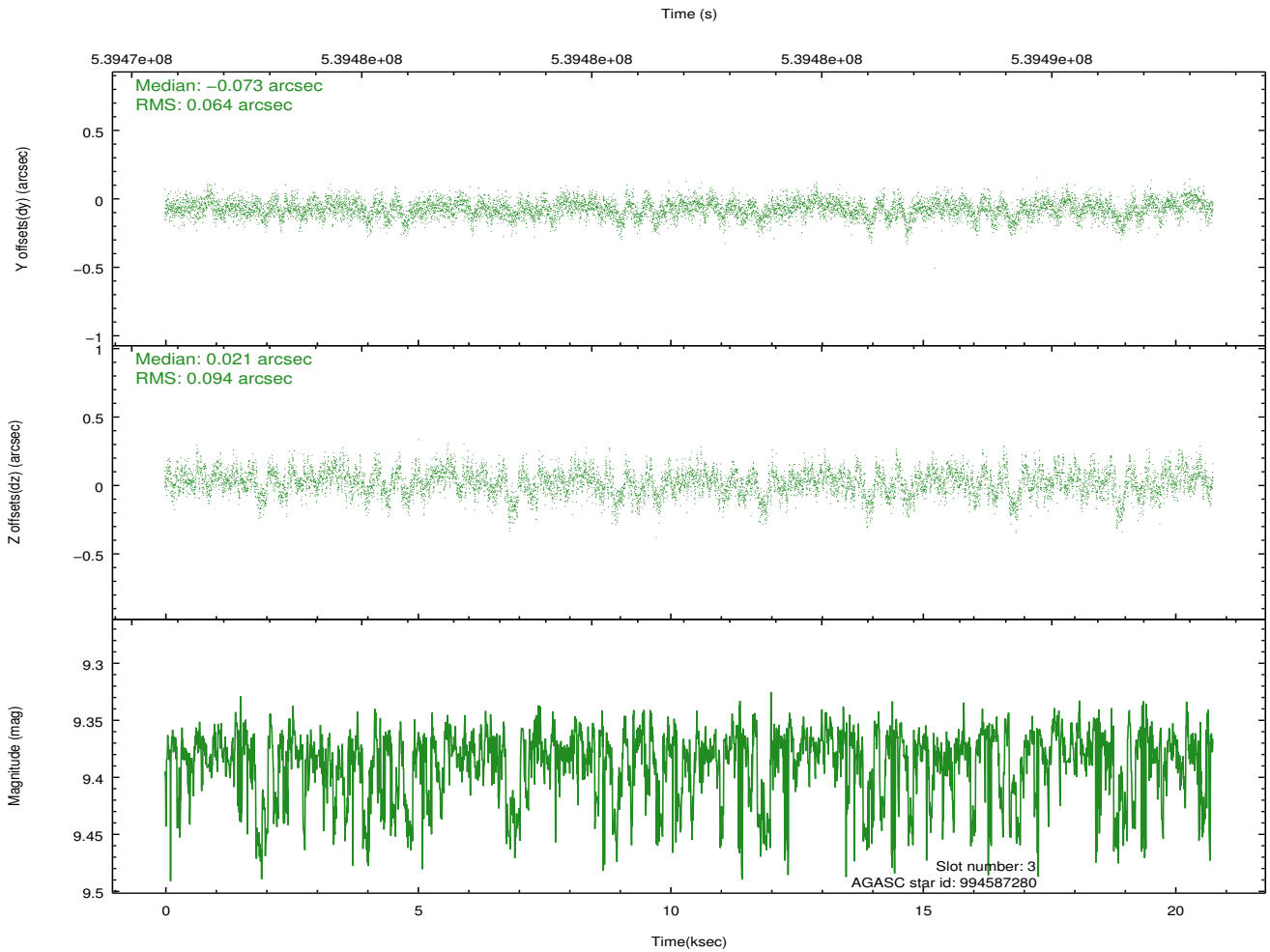
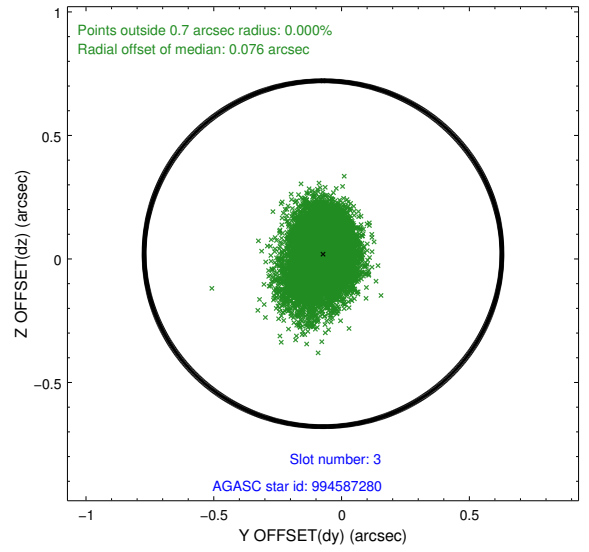
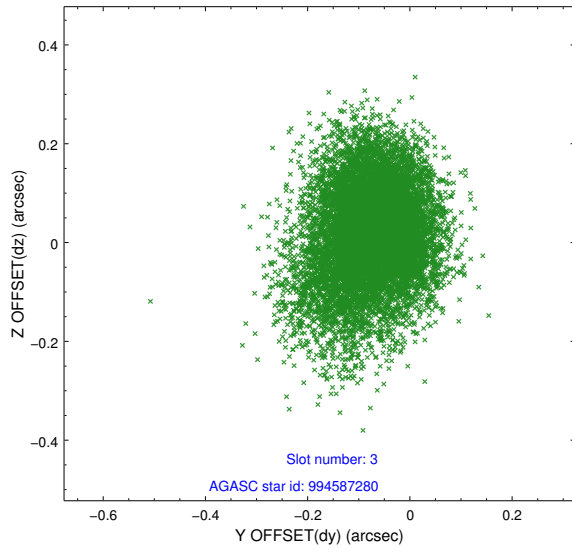
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	5063	-0.085	-0.065	0.013	0.037	0.000000	0.000000	-771.17	-1739.34
1	FID		ACIS-S-4	7.02	5063	0.304	0.058	0.022	0.051	0.000000	0.000000	2142.44	169.06
2	FID		ACIS-S-5	7.03	5063	-0.253	0.013	0.014	0.021	0.000000	0.000000	-1823.94	162.92
3	GUIDE	used	994587280	9.38	10123	-0.073	0.021	0.118	0.204	78.857559	-39.654304	-652.36	1555.34
4	GUIDE	used	994591280	9.44	10121	-0.292	0.129	0.124	0.197	78.571374	-39.417594	-1794.05	1321.63
5	GUIDE	used	994975984	9.41	10120	0.250	0.113	0.144	0.251	78.288216	-40.065810	-204.54	-558.56
6	GUIDE	used	994979816	8.81	10125	0.080	-0.065	0.094	0.155	78.007515	-40.348161	268.27	-1743.77
7	GUIDE	used	994975768	9.40	10122	0.036	-0.190	0.127	0.205	79.640022	-40.207877	2179.22	2343.05

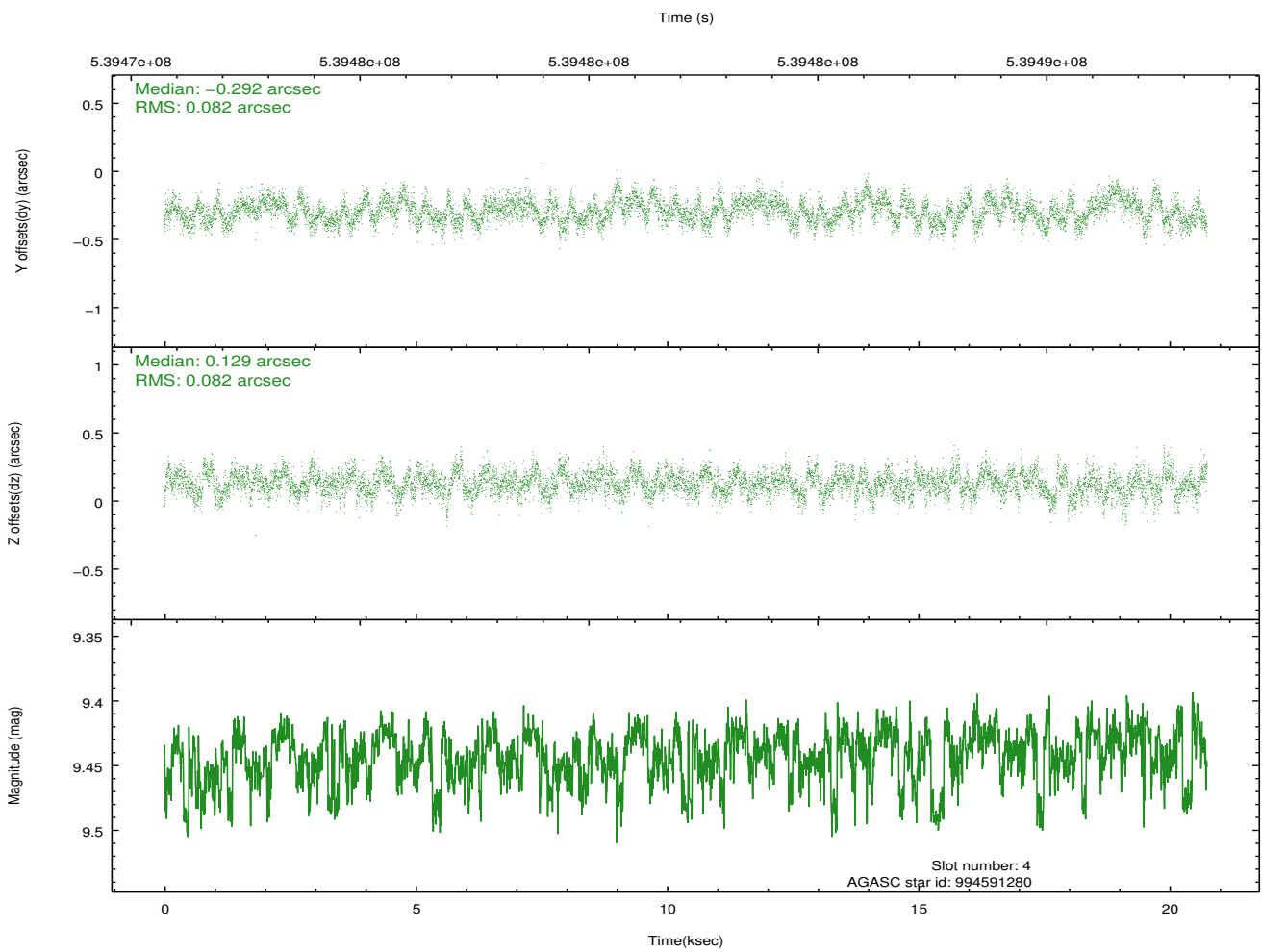
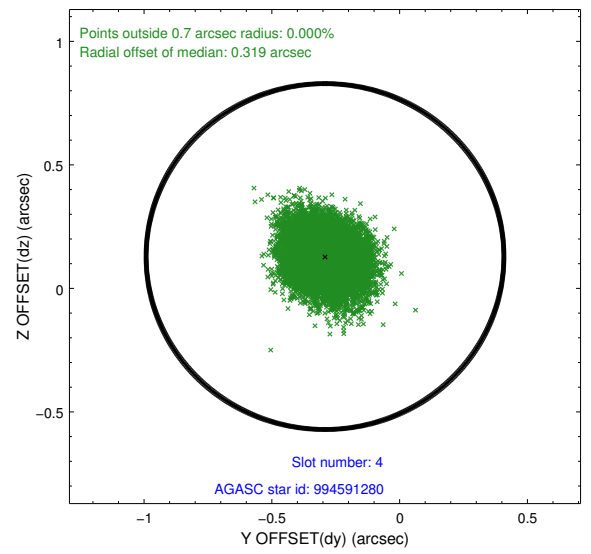
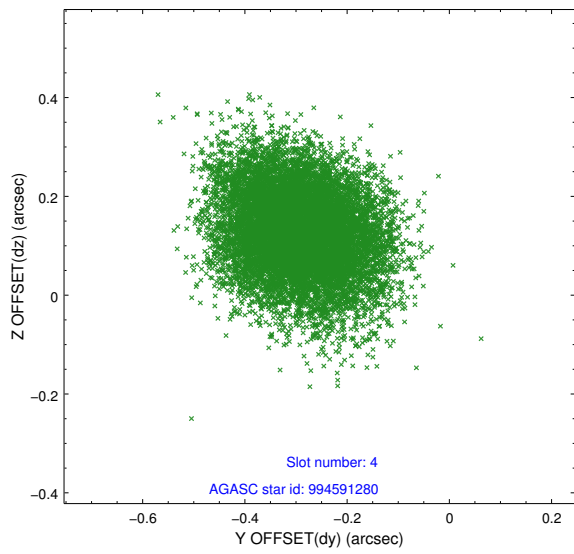
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2.4 Star Slots

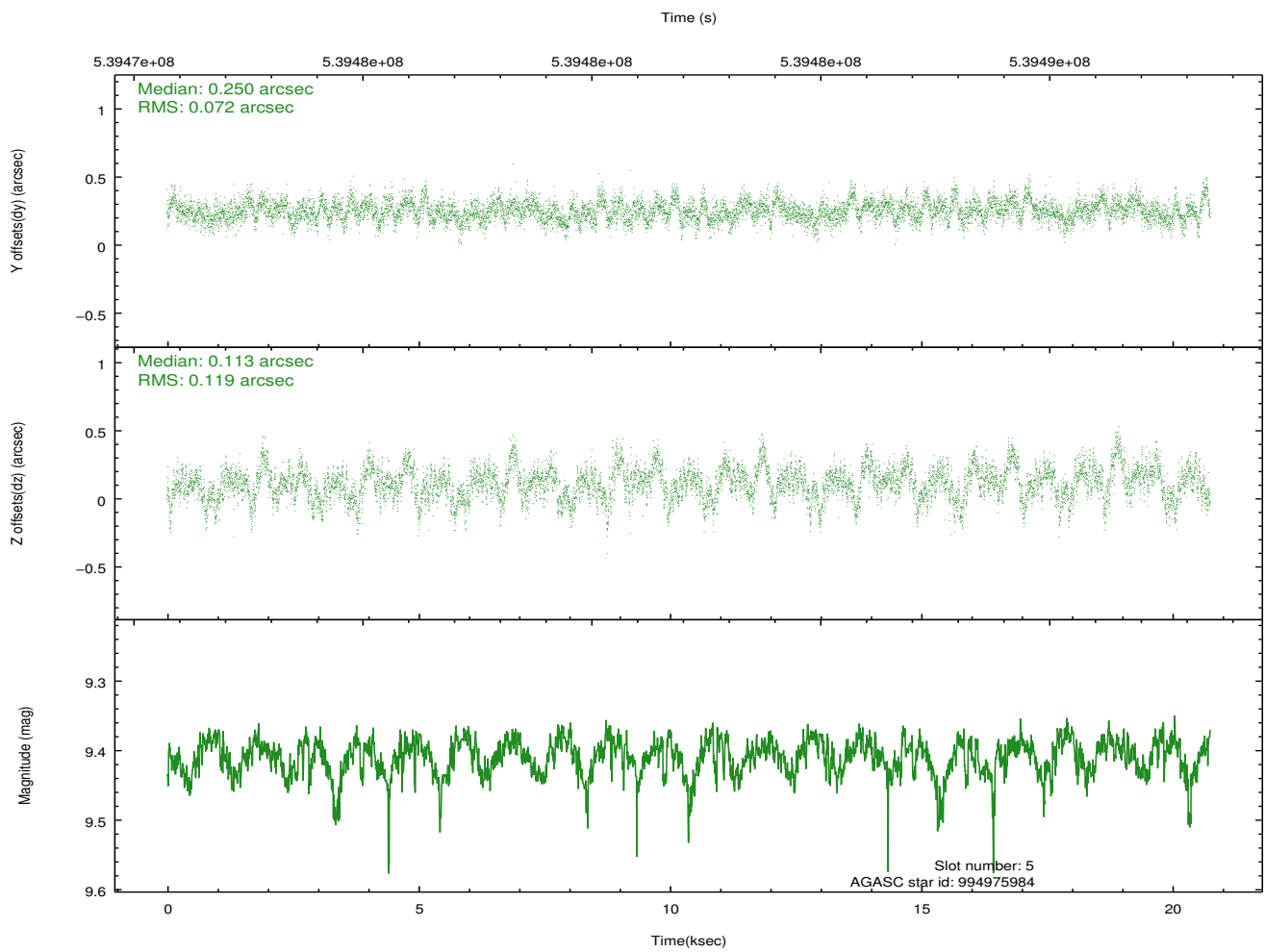
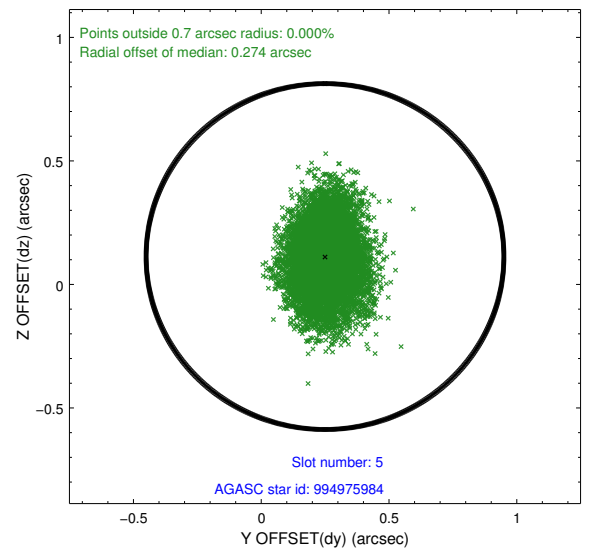
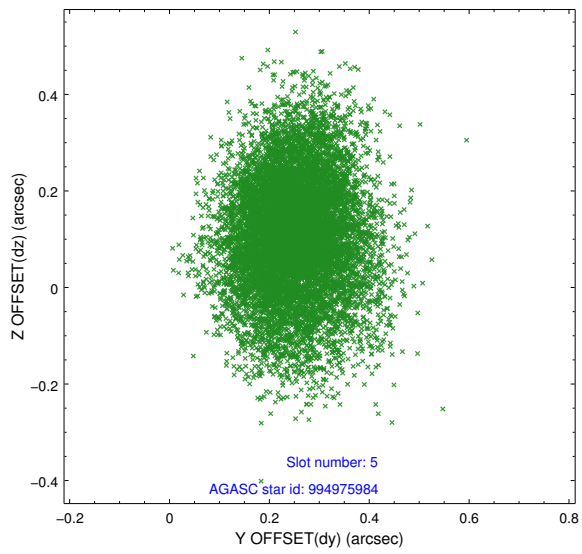
2.4.1 Slot 3



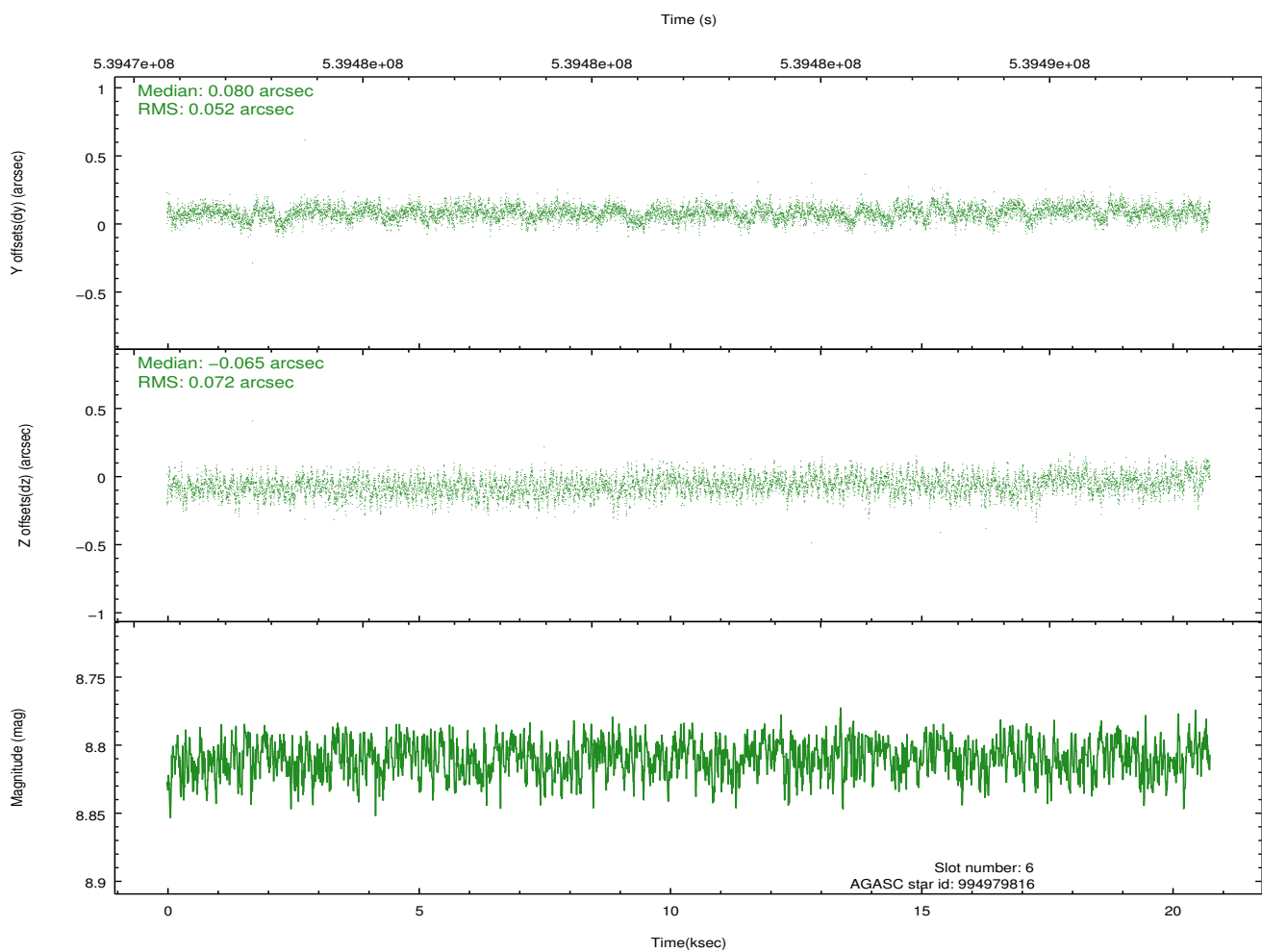
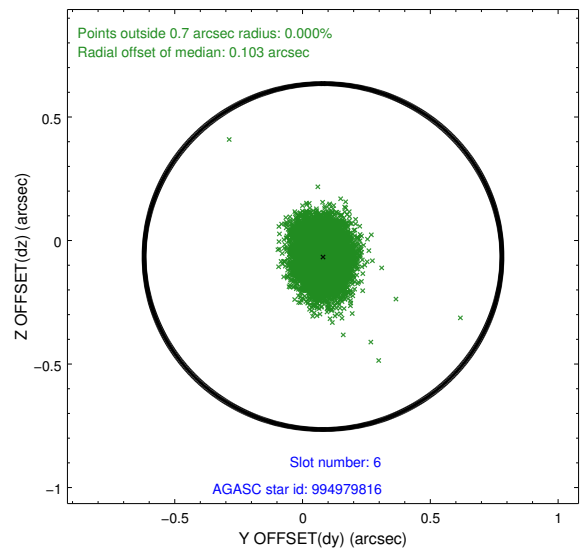
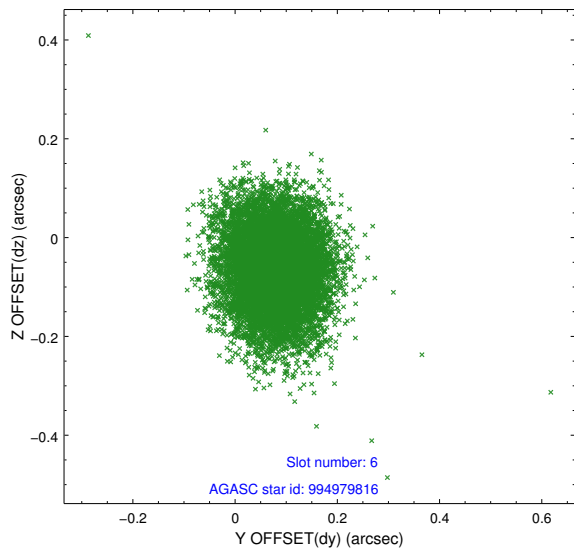
2.4.2 Slot 4



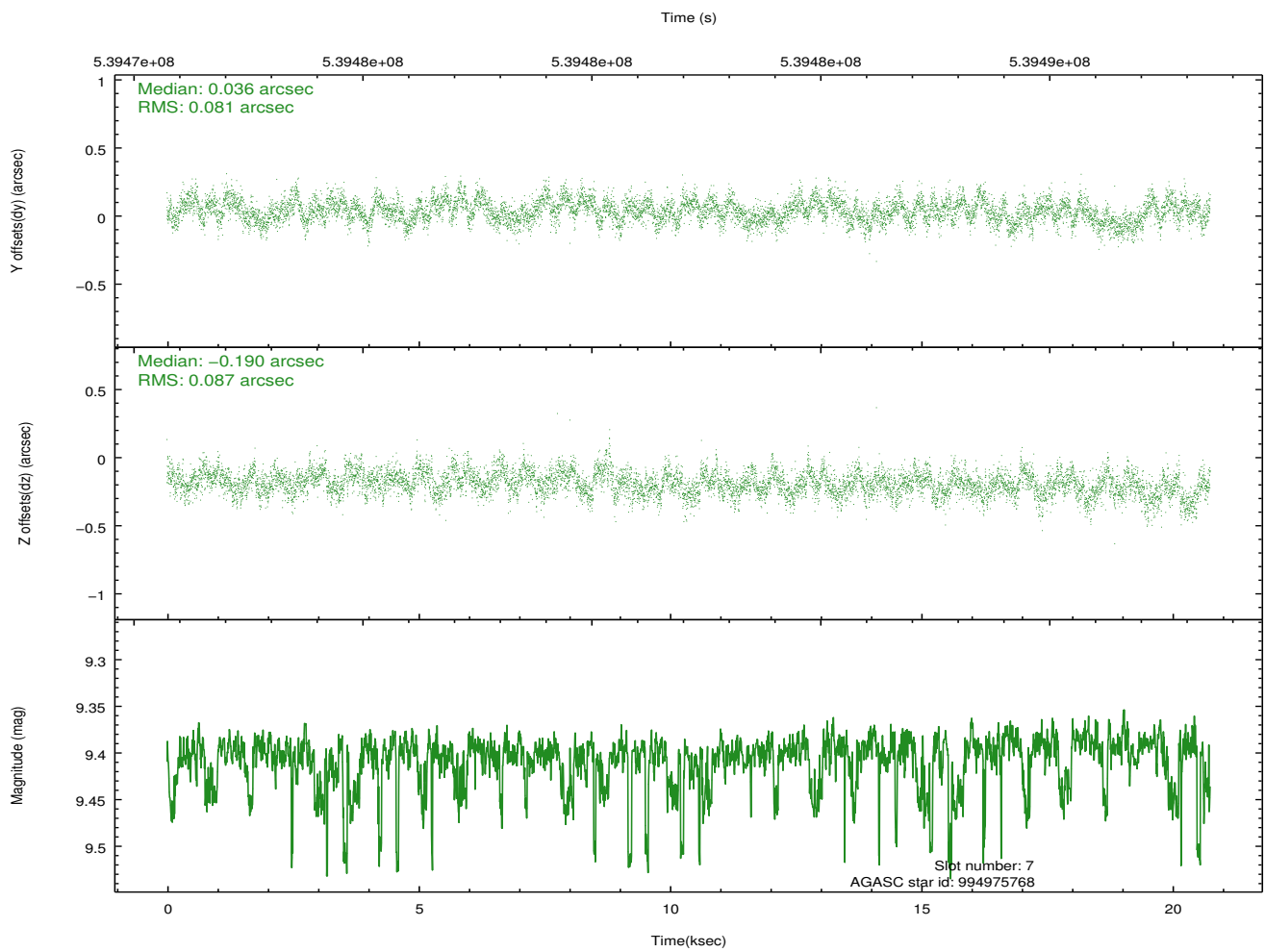
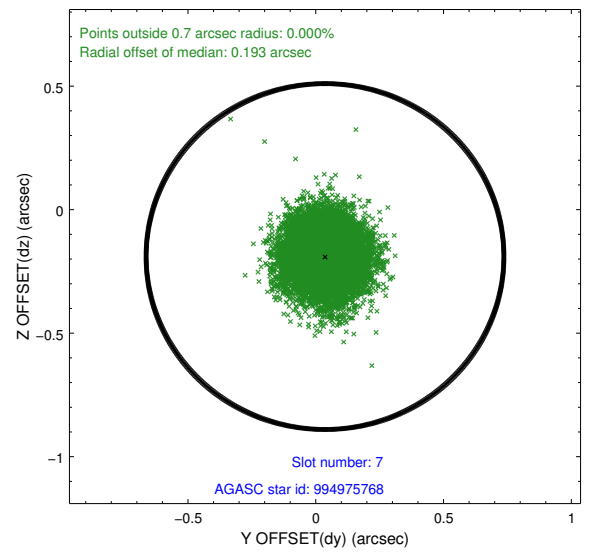
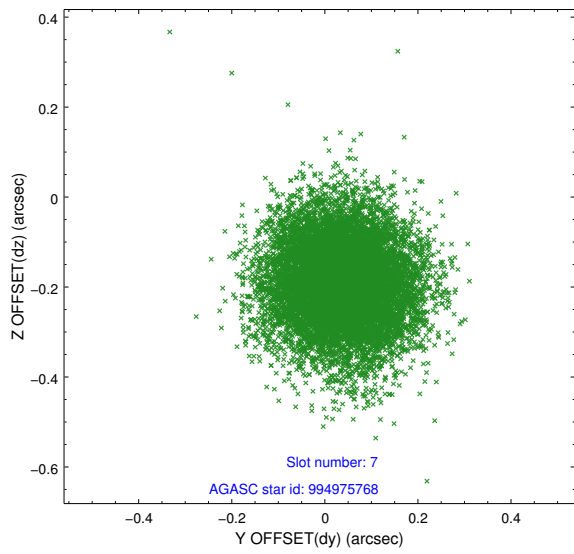
2.4.3 Slot 5



2.4.4 Slot 6

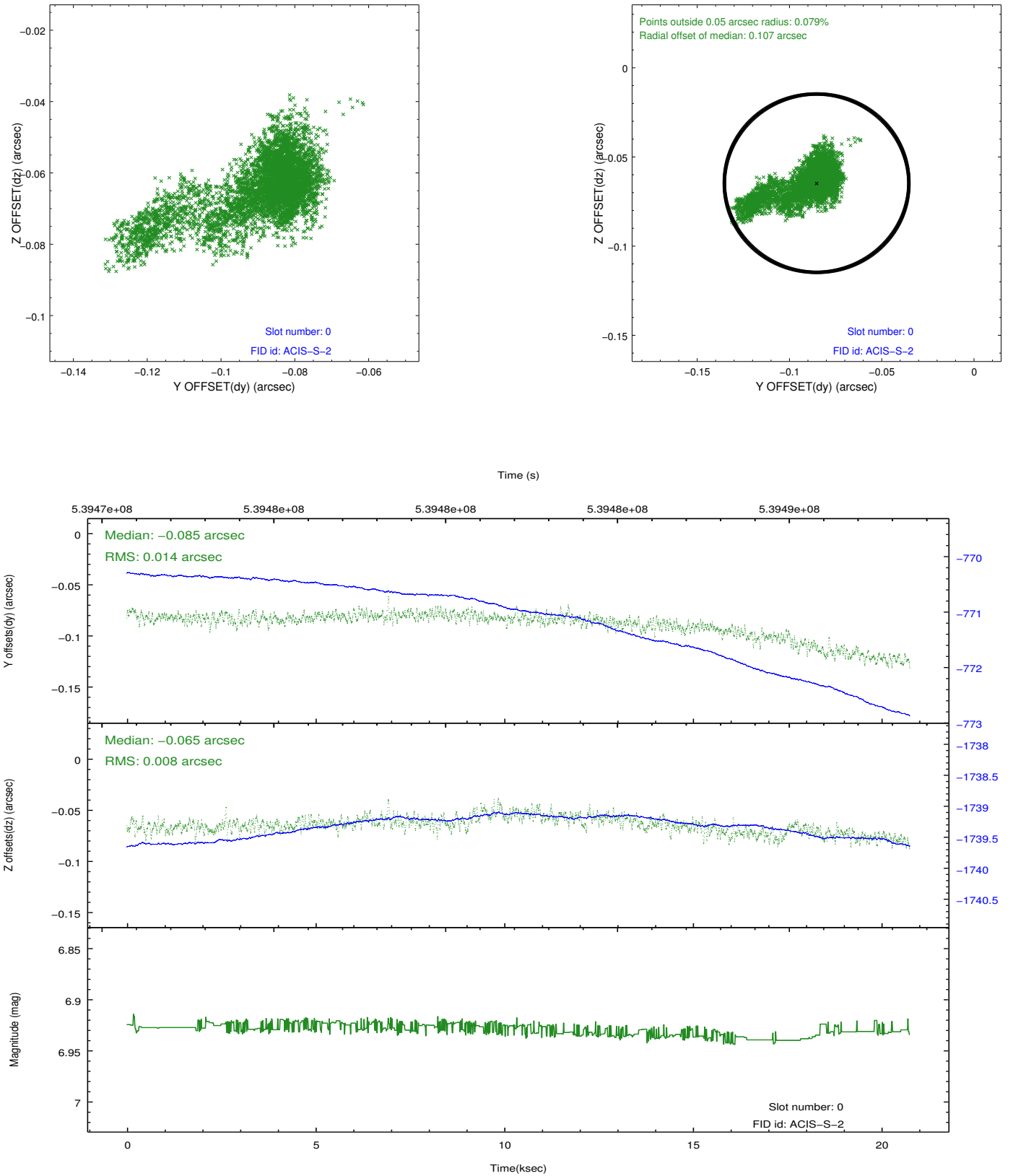


2.4.5 Slot 7

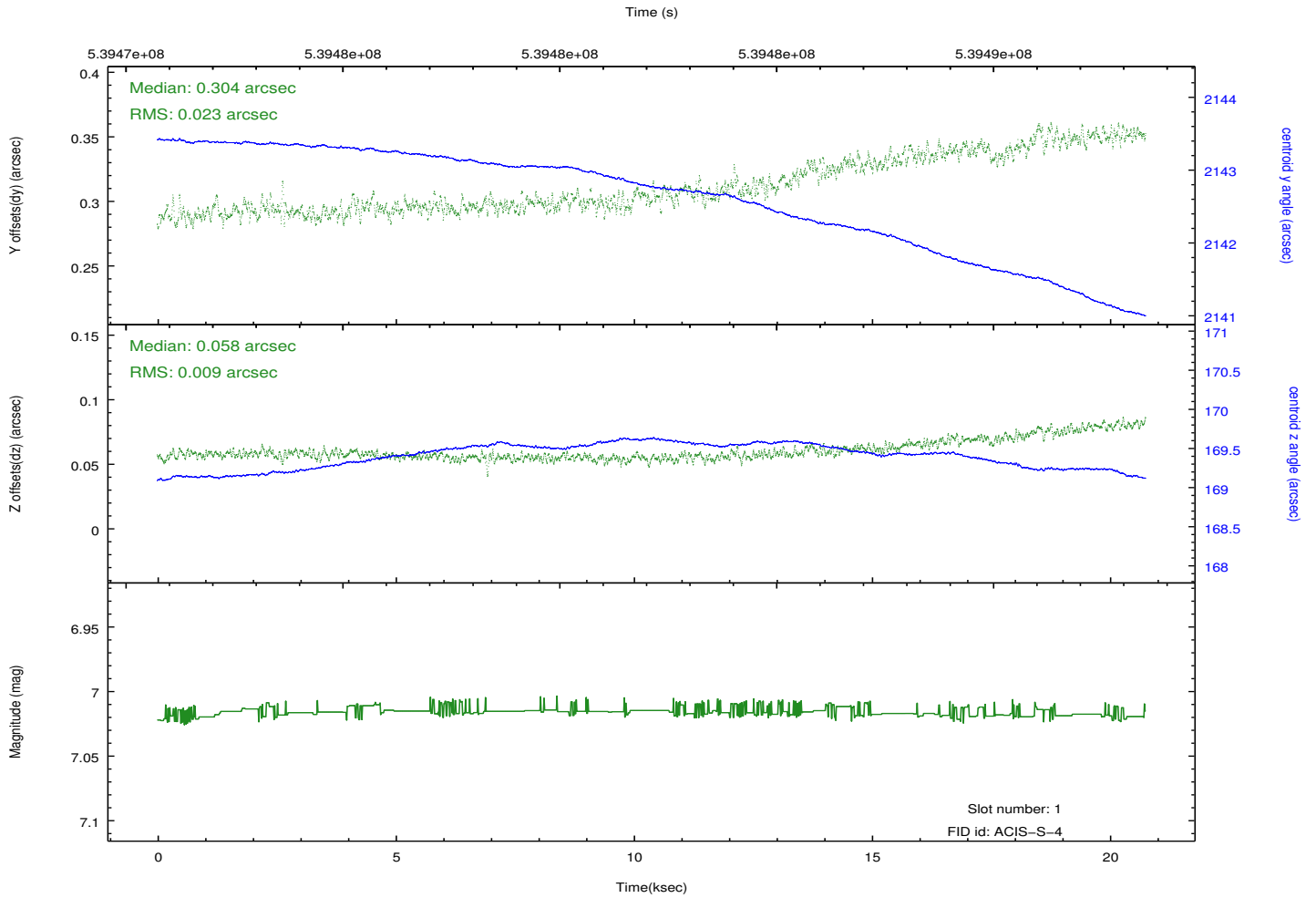
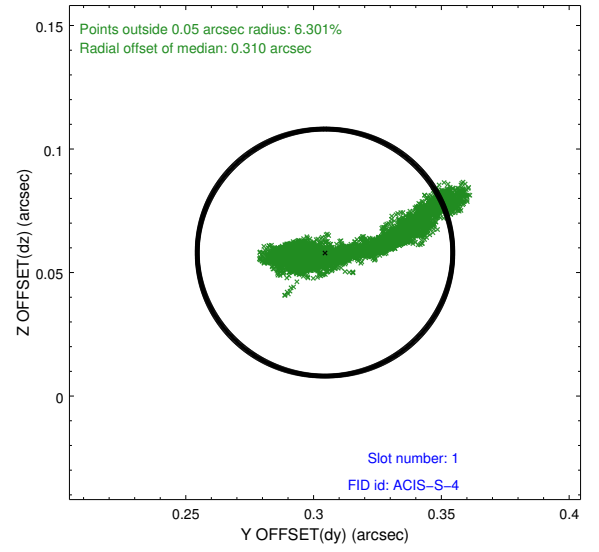
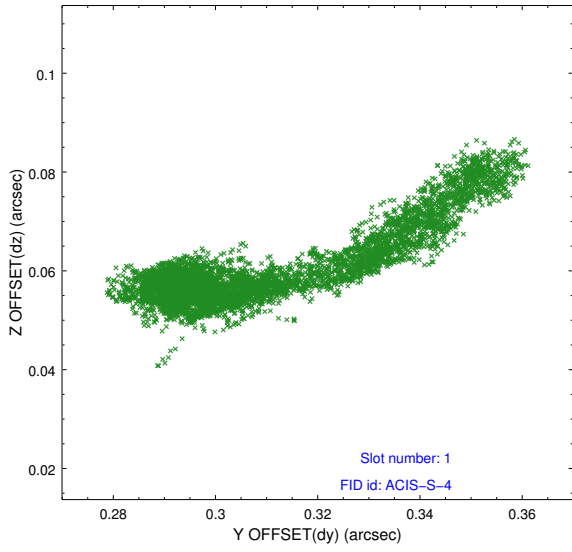


2.5 FID Slots

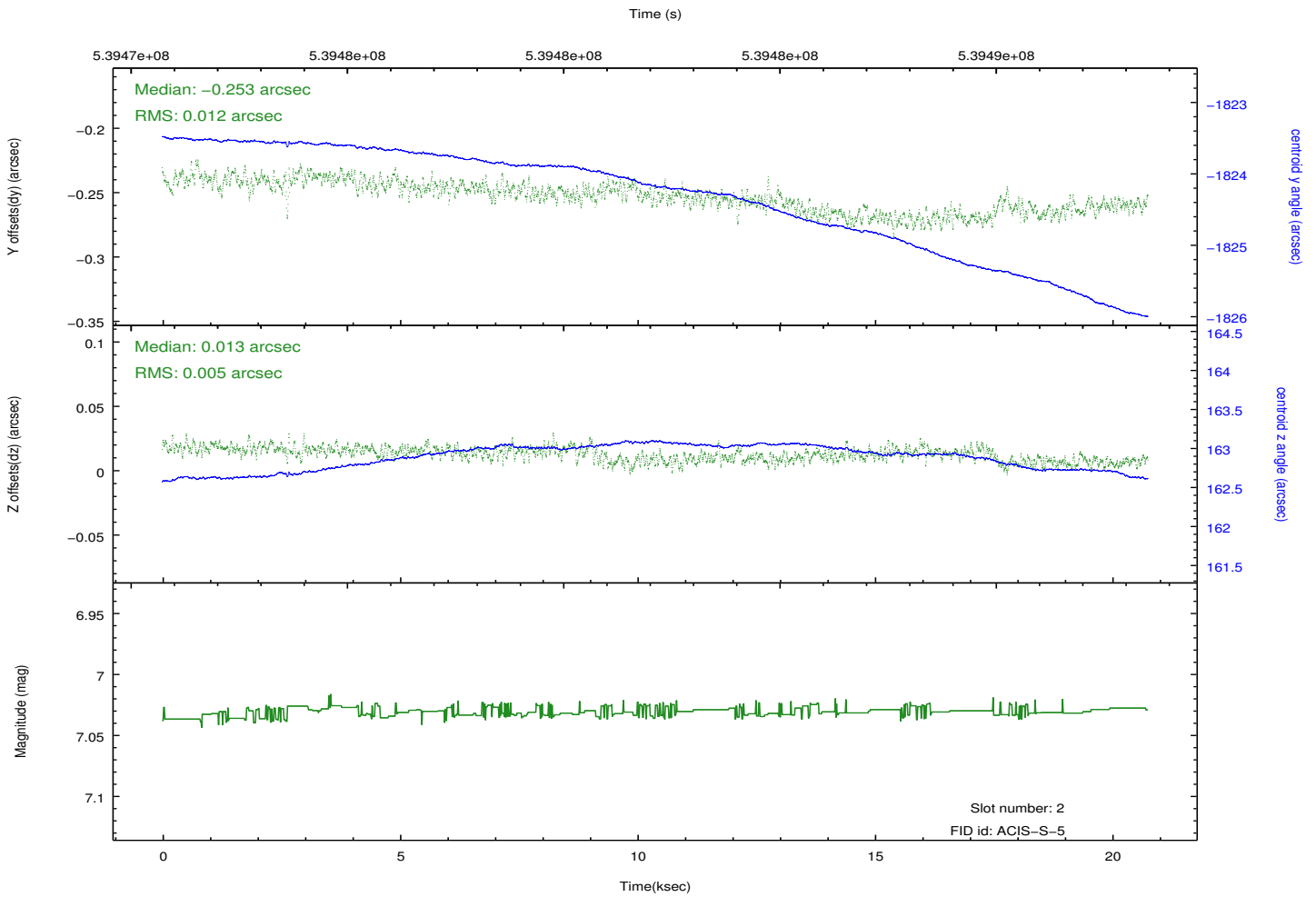
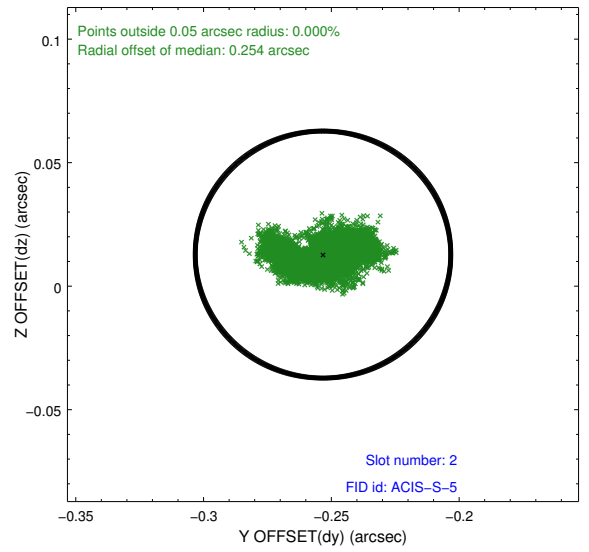
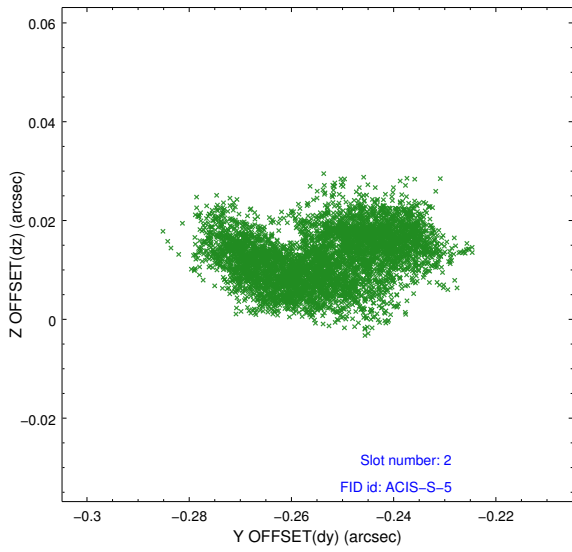
2.5.1 Slot 0



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)	2015.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.063200154424

A.2 Comments