

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18925 - L2 Version 1
Chandra X-Ray Center

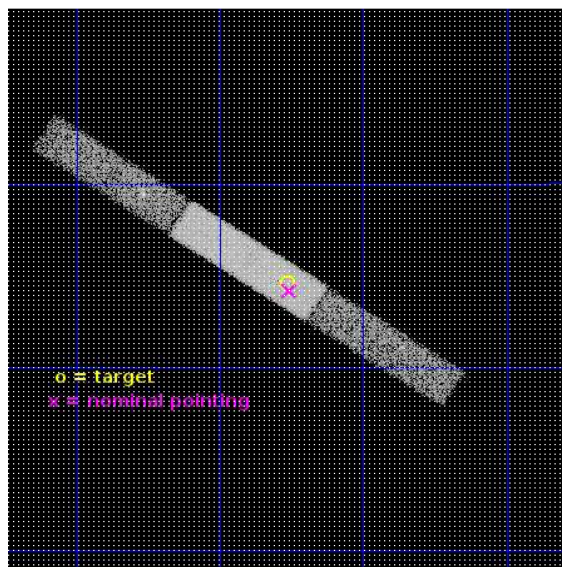
L2 Processing Date : May 14 2017

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

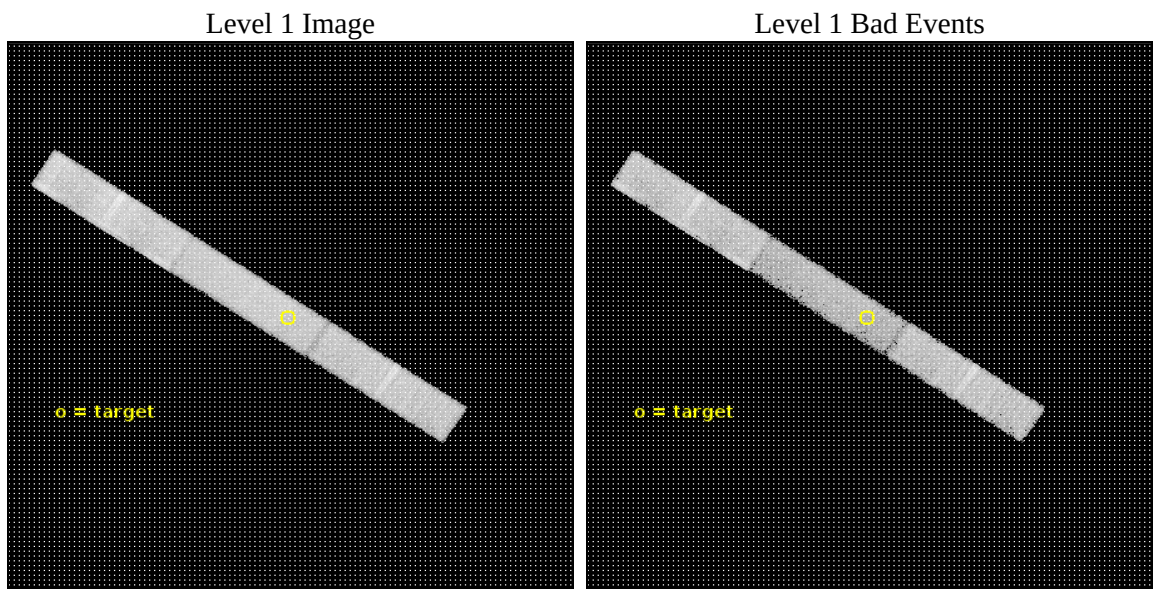
seq_num	201118	Sequence number
obs_id	18925	Observation id
title	The stellar radio pulsar CU Vir	Proposal title
observer	Jan Robrade	Principal investigator
object	CU Vir	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	213.065833	Observer's specified target RA [deg]
dec_targ	2.409417	Observer's specified target Dec [deg]
ra_nom	213.06435641921	Nominal RA [deg]
dec_nom	2.40271672945	Nominal Dec [deg]
roll_nom	213.15666951841	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30084.156600237	Sum of GTIs [s]
livetime	28772.146710249	Livetime [s]
ontime6	30083.174500108	Sum of GTIs [s]
ontime7	30084.156600237	Sum of GTIs [s]
ontime8	30084.07452023	Sum of GTIs [s]
l2events	46401	Number of level 2 events



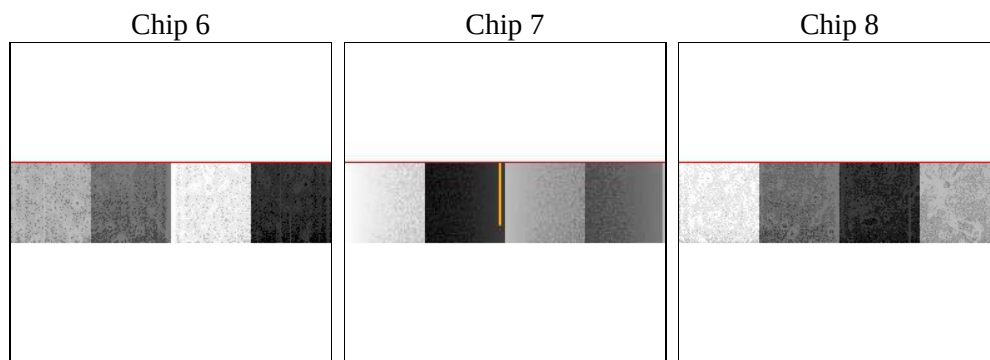
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	30084.156600237	Sum of GTIs [s]
caldsver	4.7.4	 	ontime6	30083.174500108	Sum of GTIs [s]
date	2017-05-14T04:27:52	Date and time of file creation	ontime7	30084.156600237	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	30084.07452023	Sum of GTIs [s]
			l1events	234413	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	68576	75446	90391
rejected events	60888	40852	69408
rejected %	88%	54%	76%

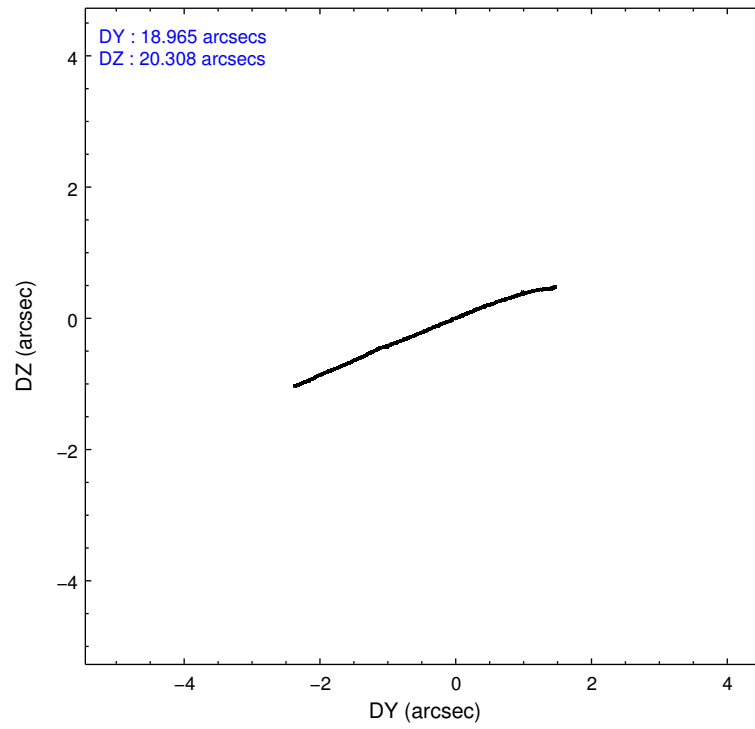
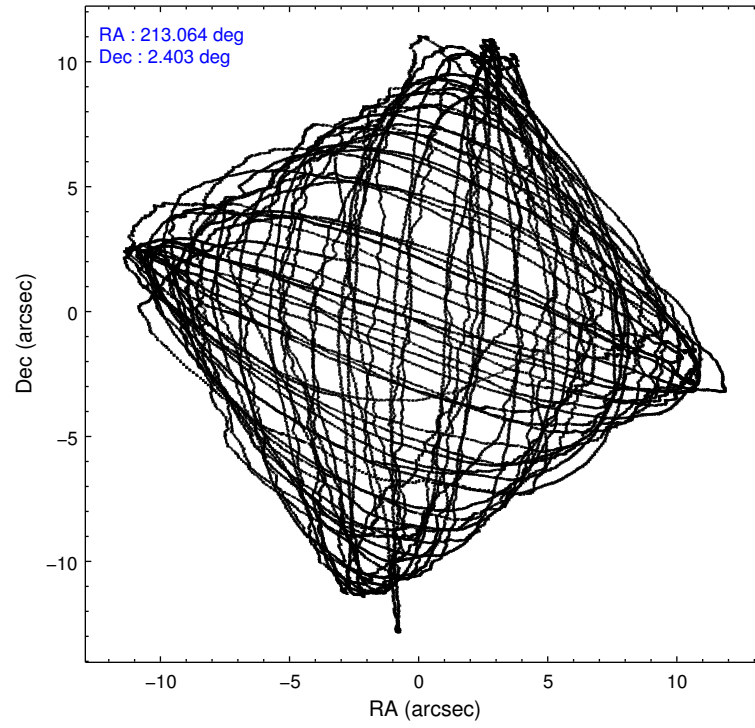
	ccd 6	ccd 7	ccd 8
grade 0 events	2292	3317	5231
	3%	4%	5%
grade 1 events	9	115	47
	0%	0%	0%
grade 2 events	1485	7080	4825
	2%	9%	5%
grade 3 events	1132	3553	2438
	1%	4%	2%
grade 4 events	1122	3533	2226
	1%	4%	2%
grade 5 events	2661	7548	4207
	3%	10%	4%
grade 6 events	1658	17111	6263
	2%	22%	6%
grade 7 events	58217	33189	65154
	84%	43%	72%

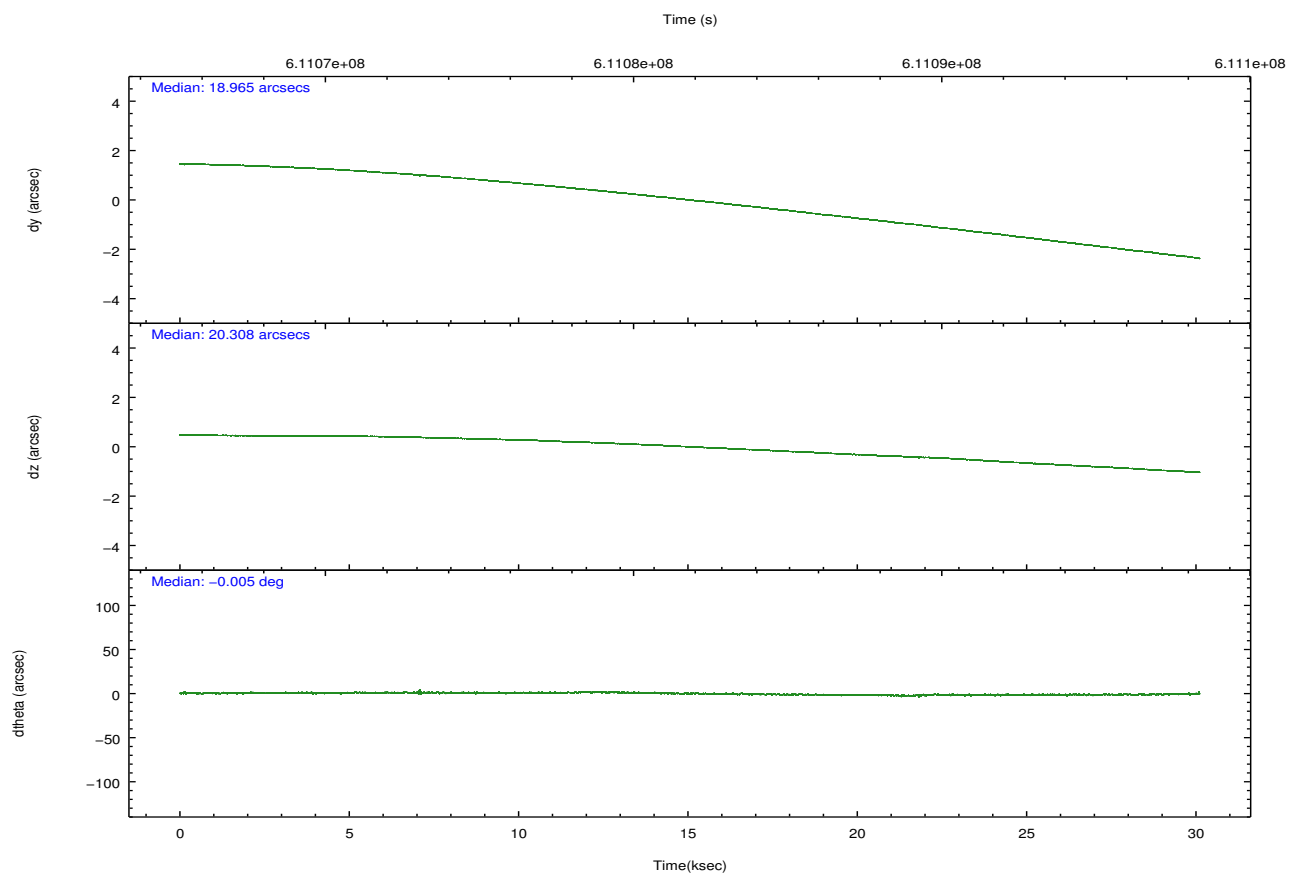
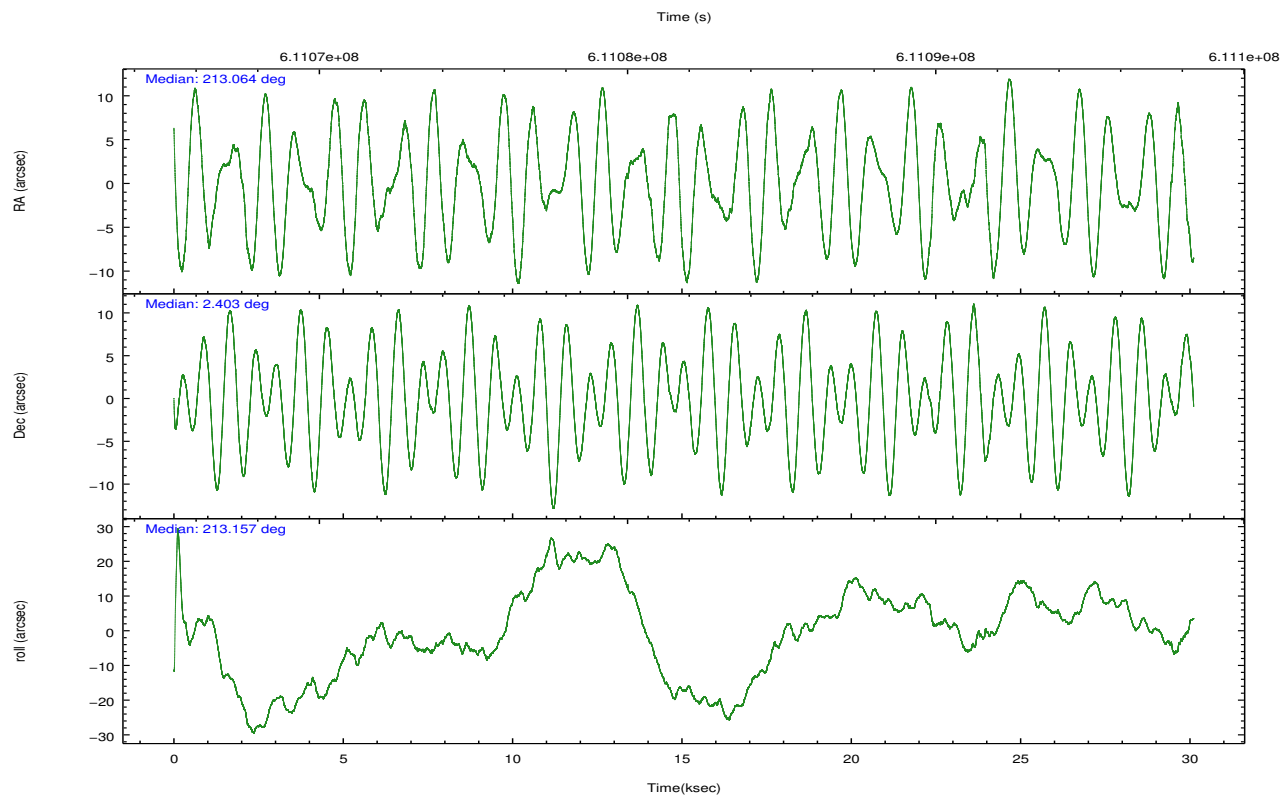
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	213.076440	213.0643564192077
[deg] Pointing Dec	2.427351	2.402716729450006
[deg] Pointing Roll	212.999554	213.1566695184112
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	611066872.184000	611065297.61494
Observation start date	2017-05-13T12:46:43	2017-05-13T12:21:37
[s] Observation end time (MET)	611096872.184000	611097917.7293299
Observation end date	2017-05-13T21:06:43	2017-05-13T21:25:17
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.9

2.3 Aspect



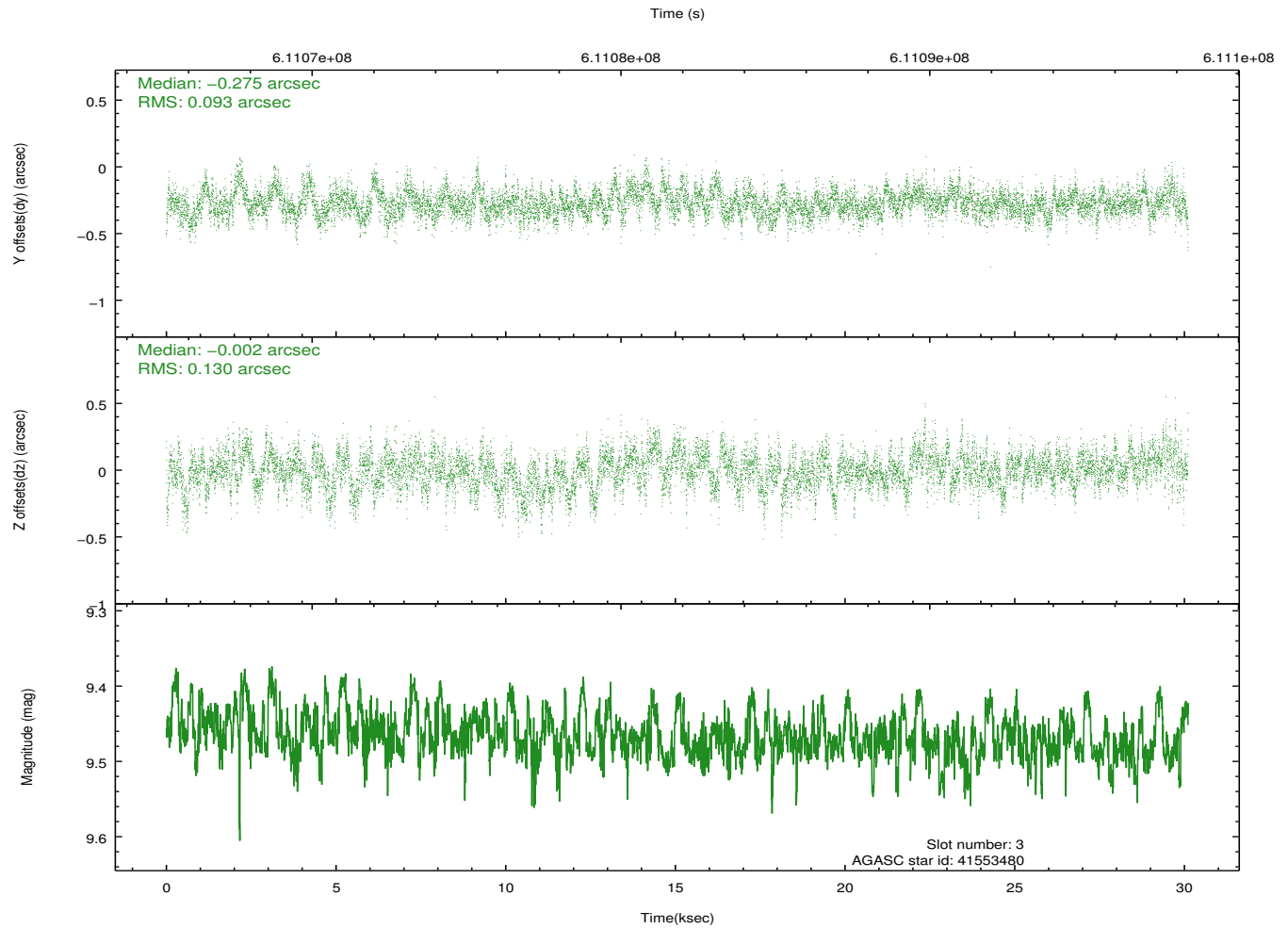
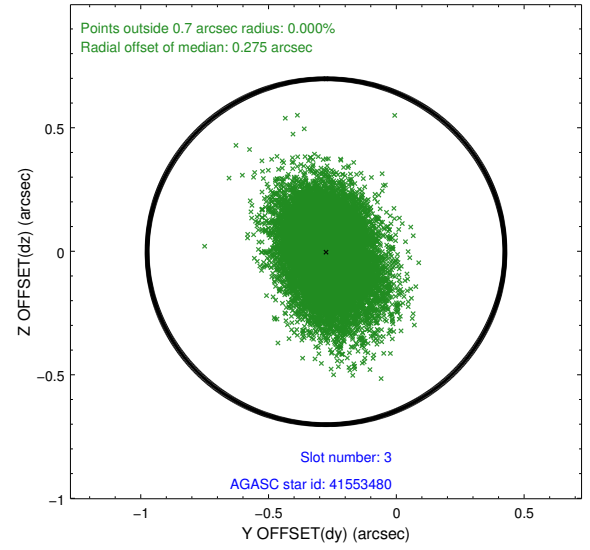
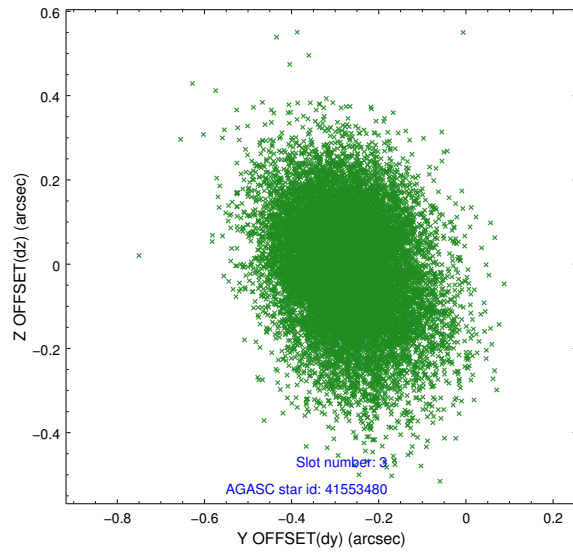


Slot Statistics

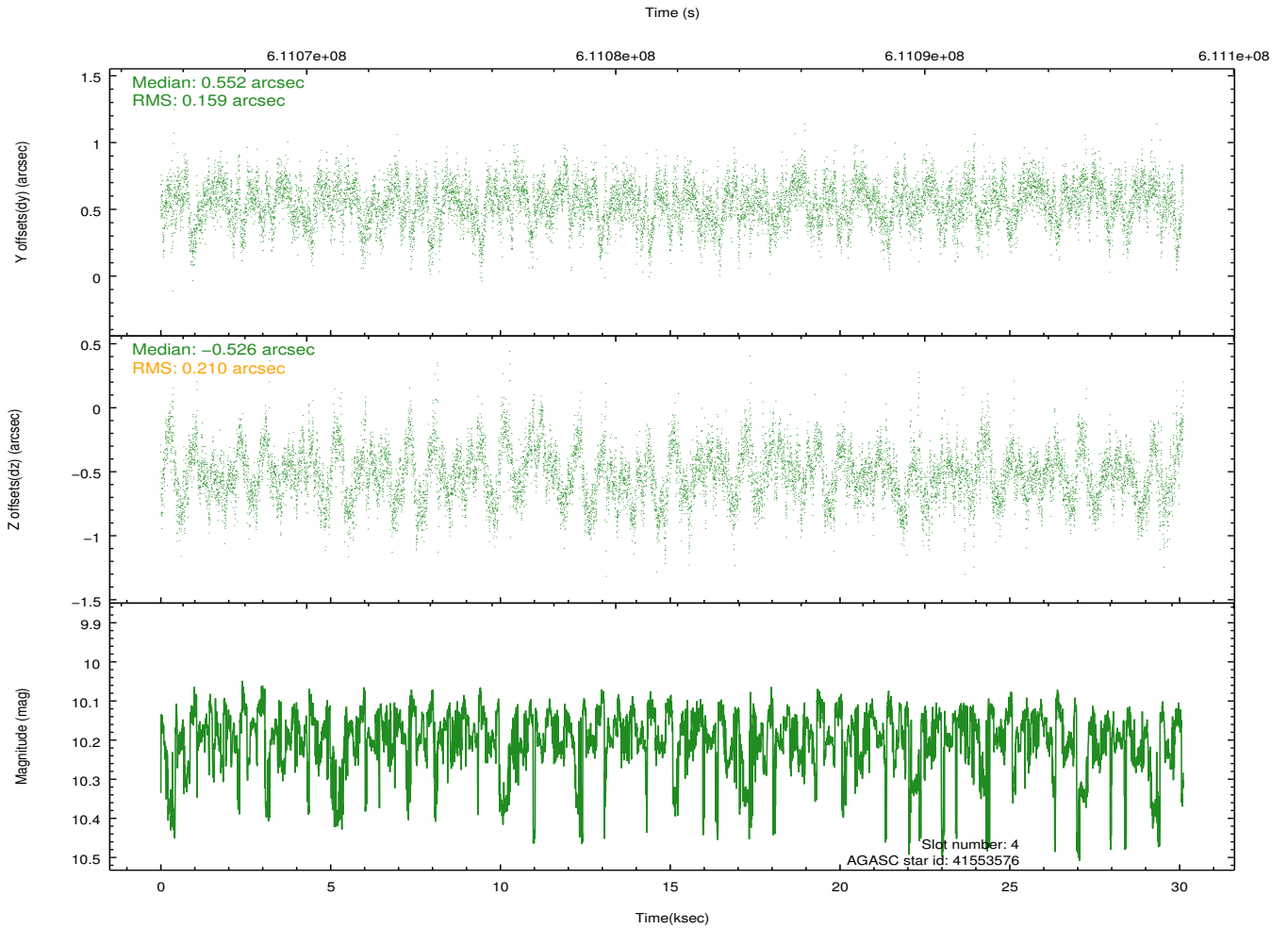
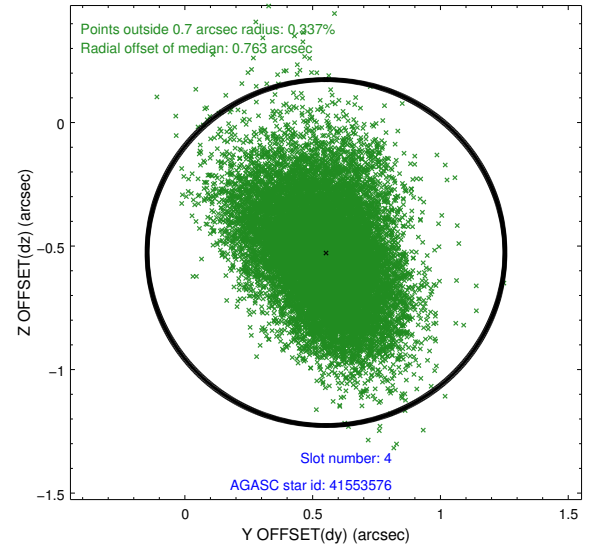
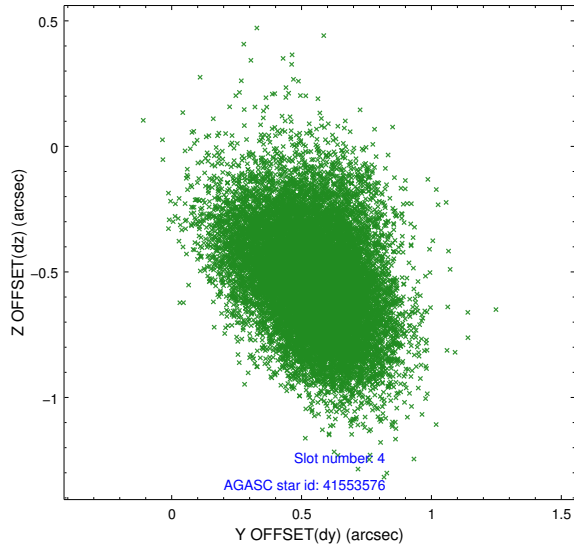
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	7342	-0.262	-0.128	0.025	0.046	0.000000	0.000000	-772.13	-1741.88
1	FID		ACIS-S-4	7.20	7342	0.559	0.161	0.025	0.034	0.000000	0.000000	2141.90	166.86
2	FID		ACIS-S-5	7.19	7343	-0.345	-0.020	0.023	0.039	0.000000	0.000000	-1824.99	160.37
3	GUIDE	used	41553480	9.47	14672	-0.275	-0.002	0.166	0.287	213.522930	2.220998	-942.08	1497.59
4	GUIDE	used	41553576	10.19	14523	0.552	-0.526	0.279	0.456	212.768690	2.074155	1621.95	462.94
5	GUIDE	used	41553792	9.59	14583	-0.082	0.342	0.227	0.379	212.509696	2.277510	2004.17	-658.31
6	GUIDE	used	41554624	9.28	14666	-0.207	0.065	0.210	0.338	213.658470	2.496434	-1890.04	930.95
7	GUIDE	used	41553328	9.88	14610	0.001	0.117	0.306	0.490	213.234430	2.176306	15.88	1067.50

2.4 Star Slots

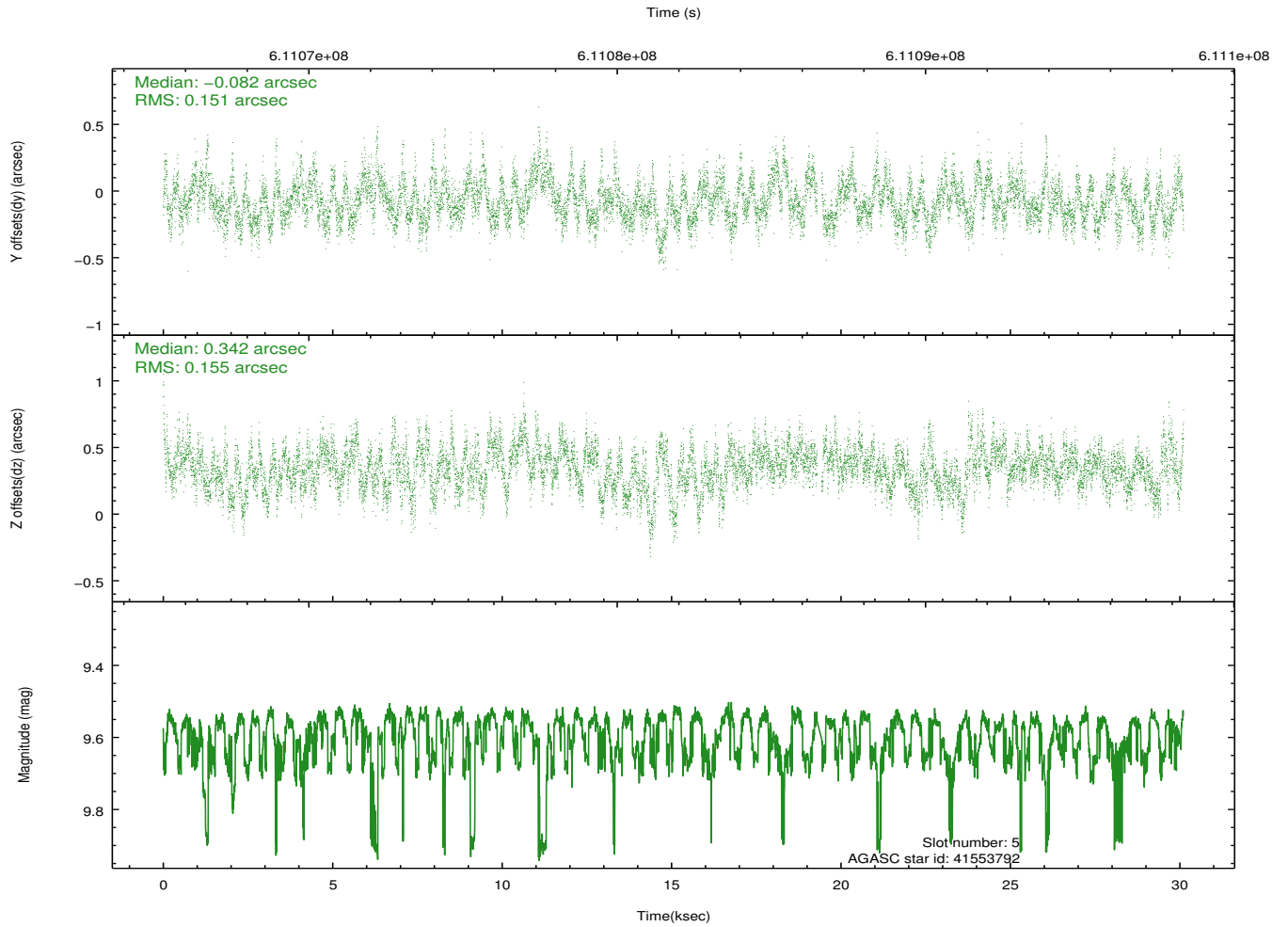
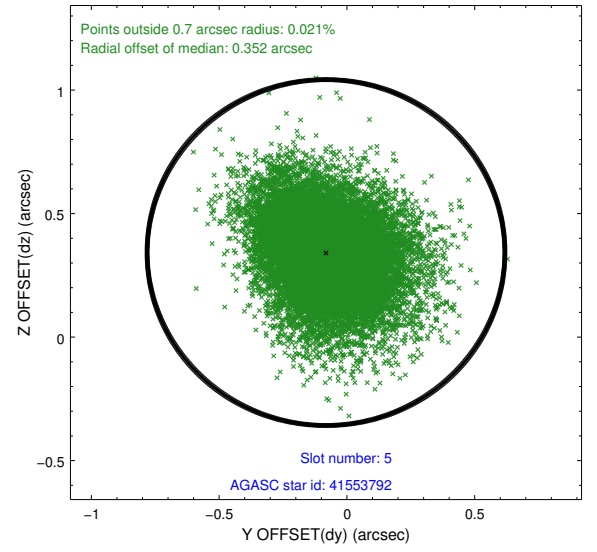
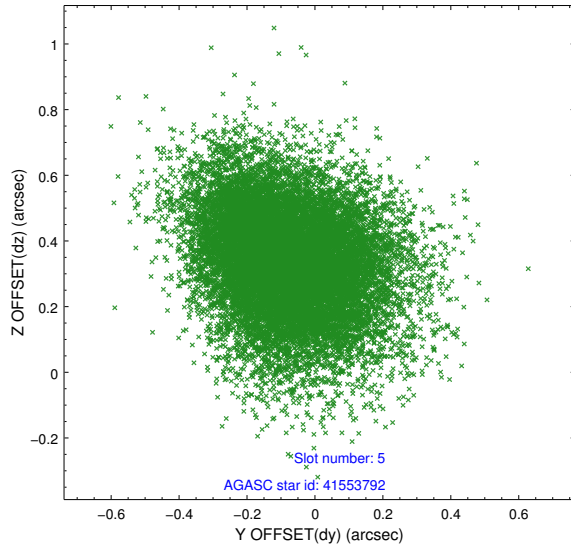
2.4.1 Slot 3



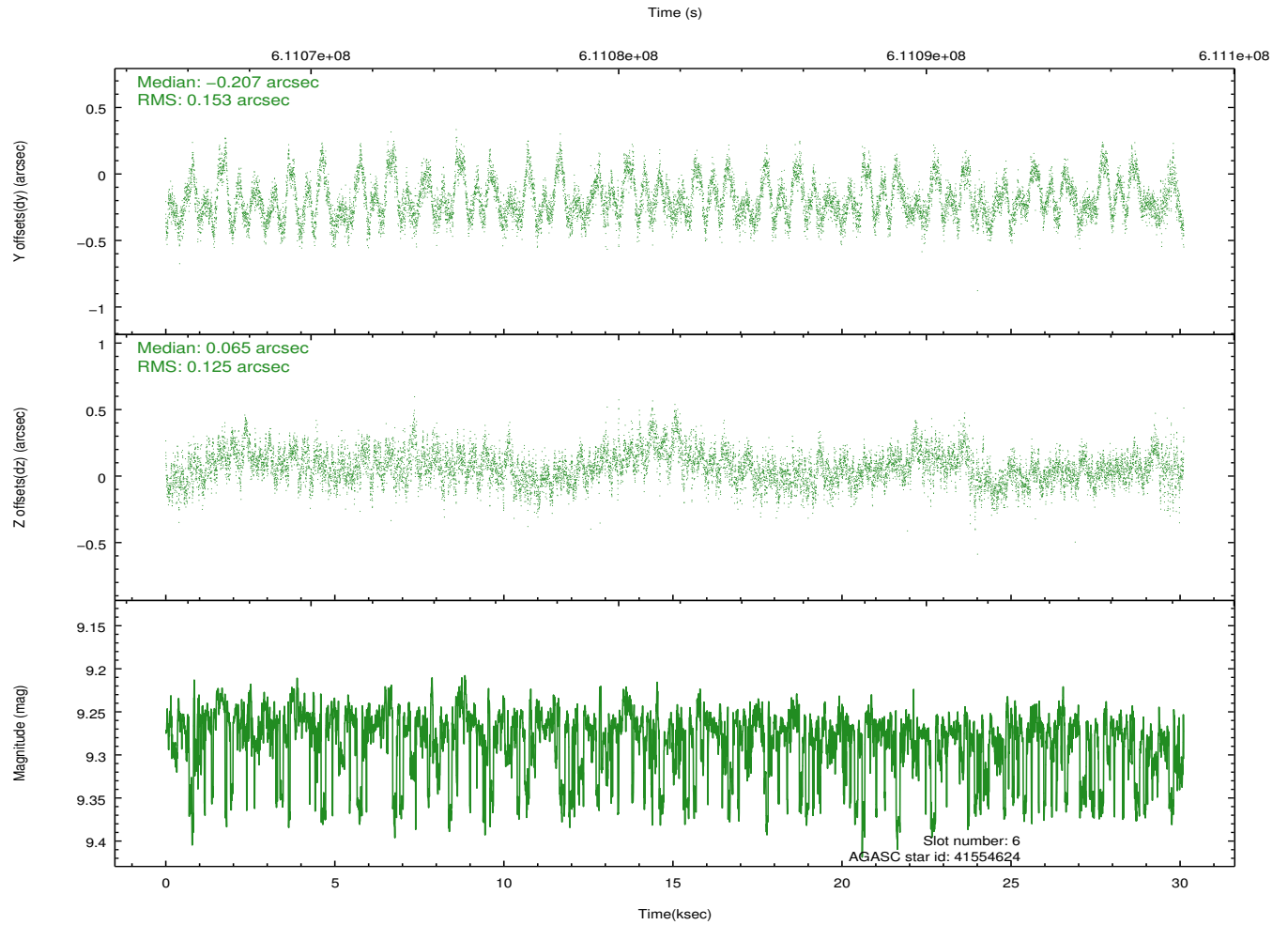
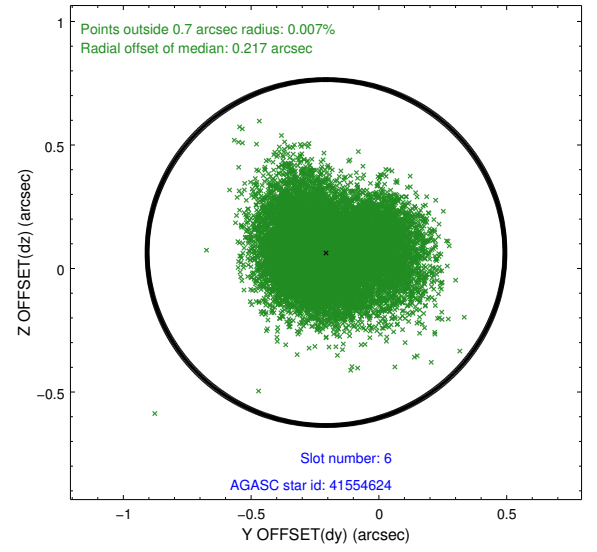
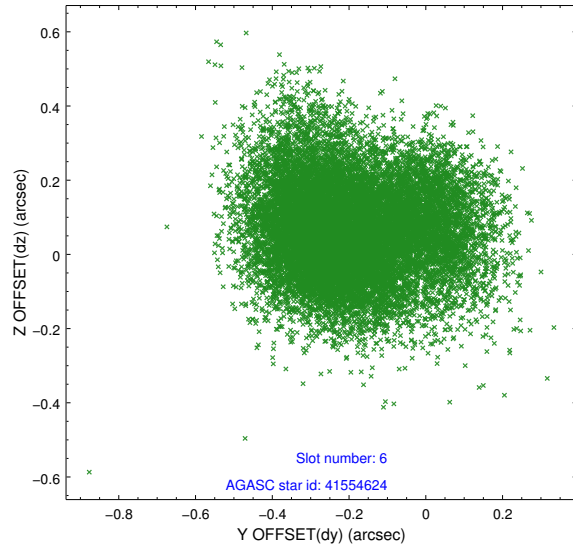
2.4.2 Slot 4



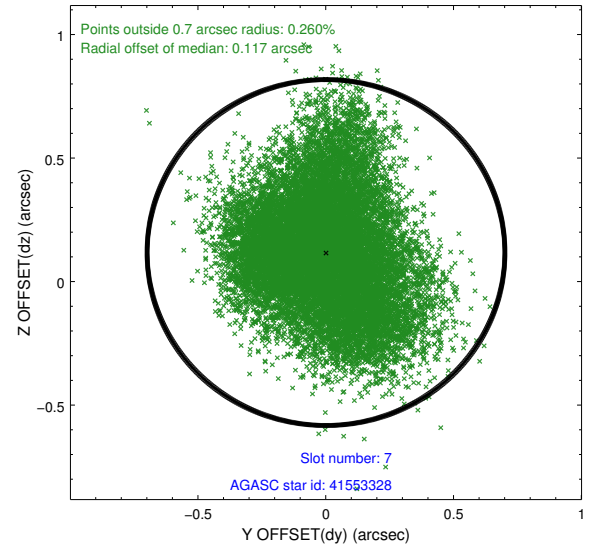
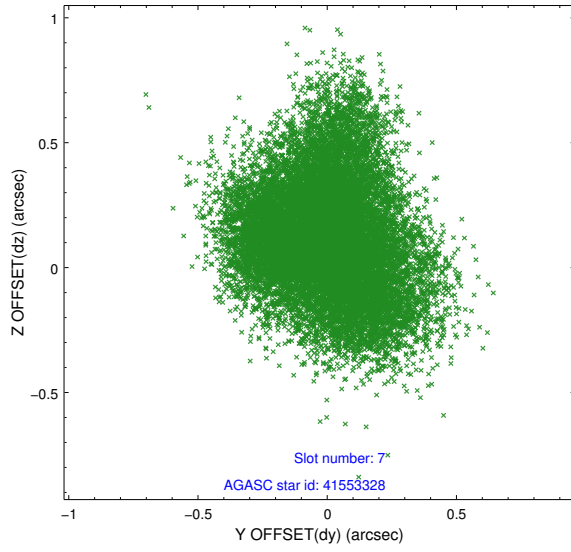
2.4.3 Slot 5



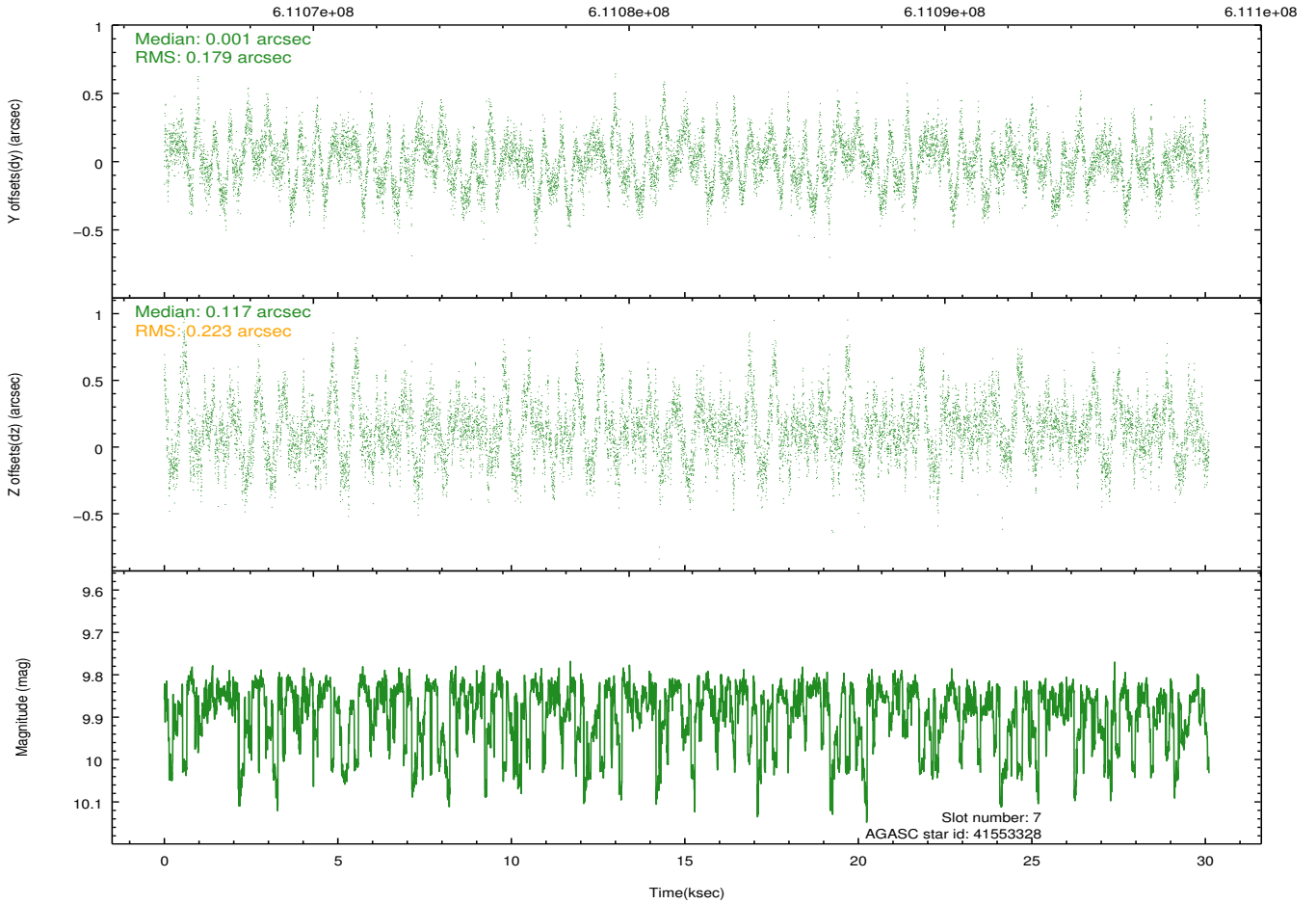
2.4.4 Slot 6



2.4.5 Slot 7

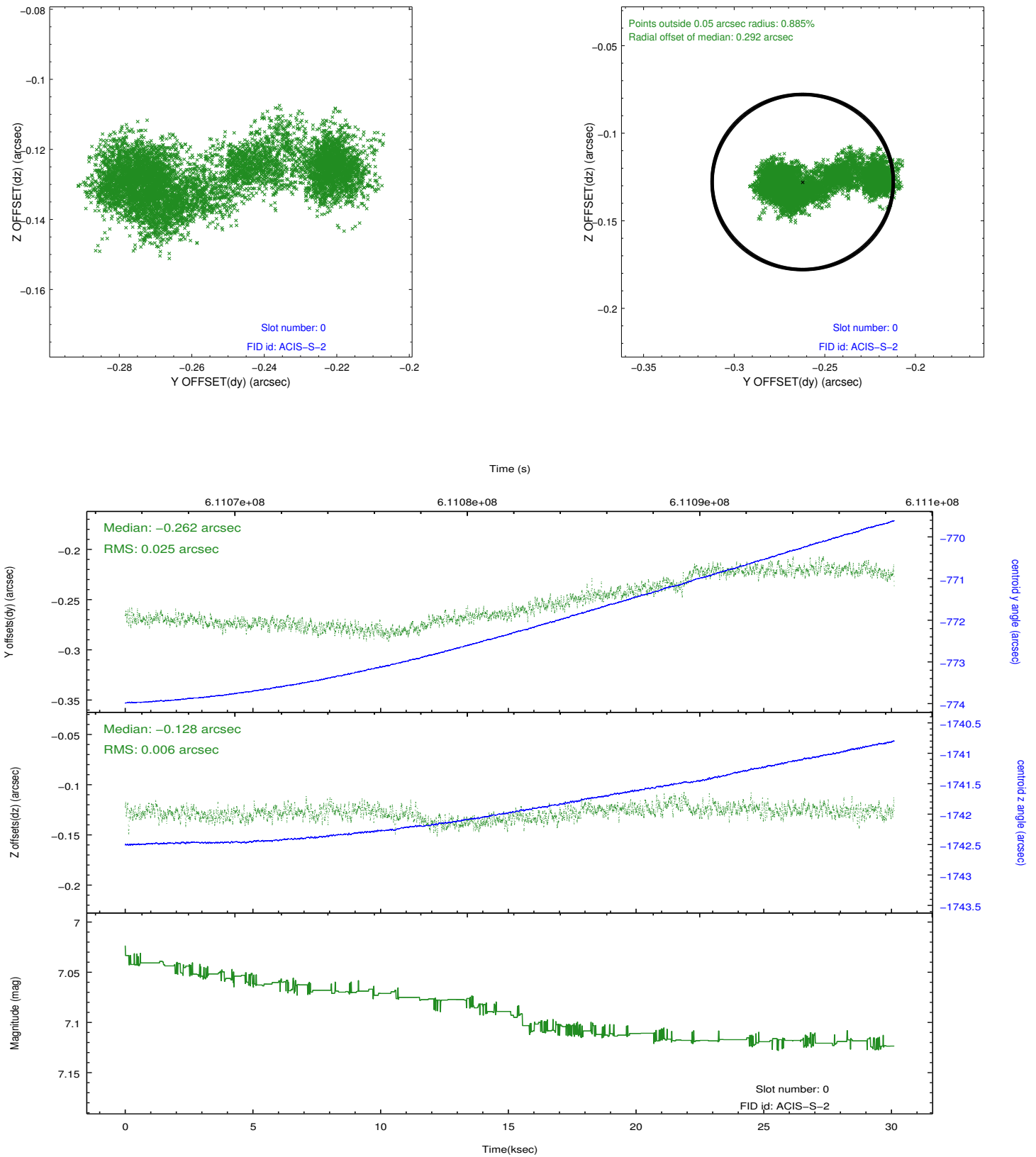


Time (s)

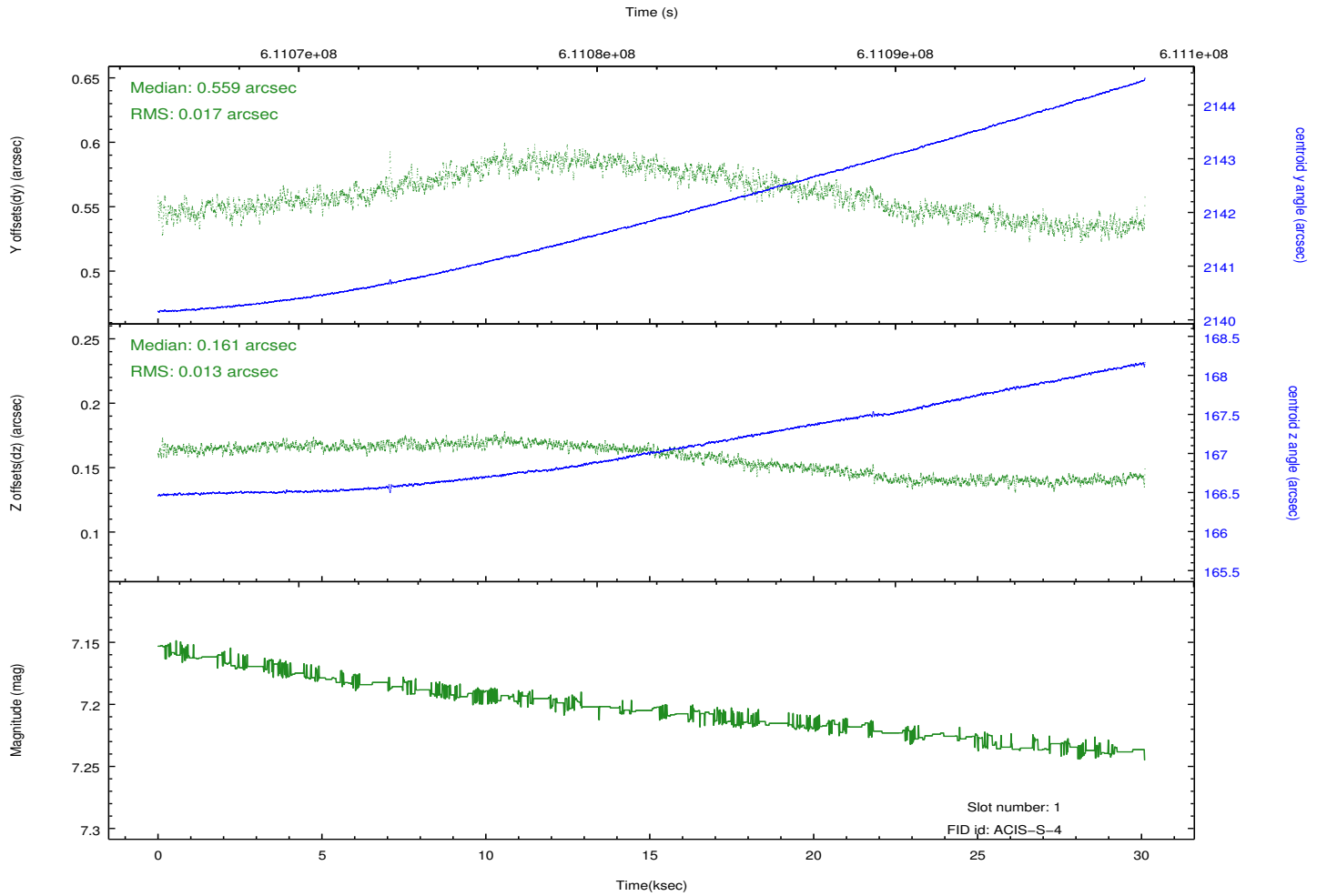
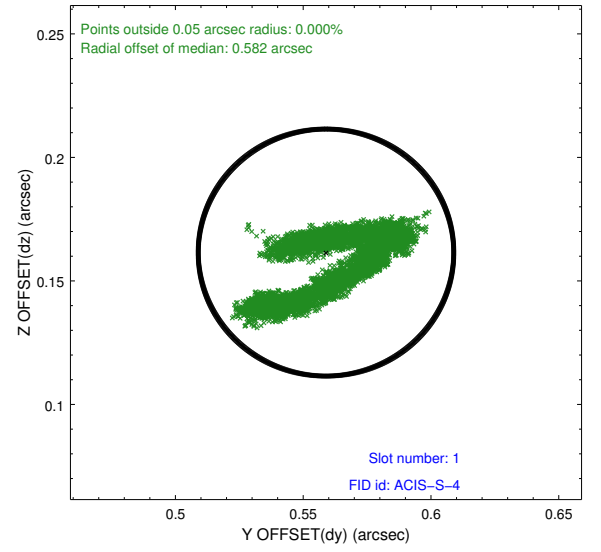
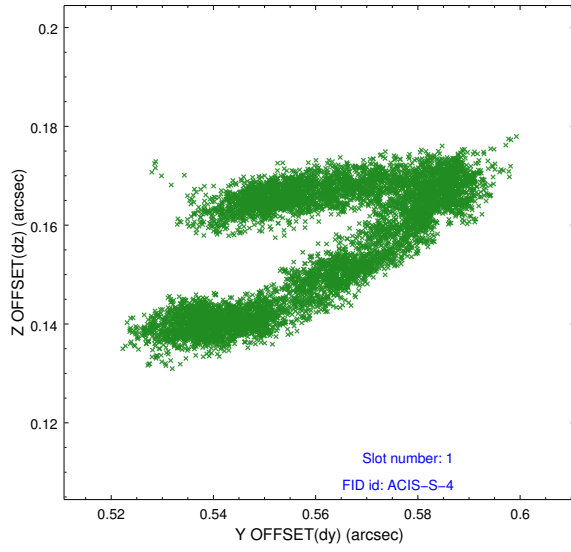


2.5 FID Slots

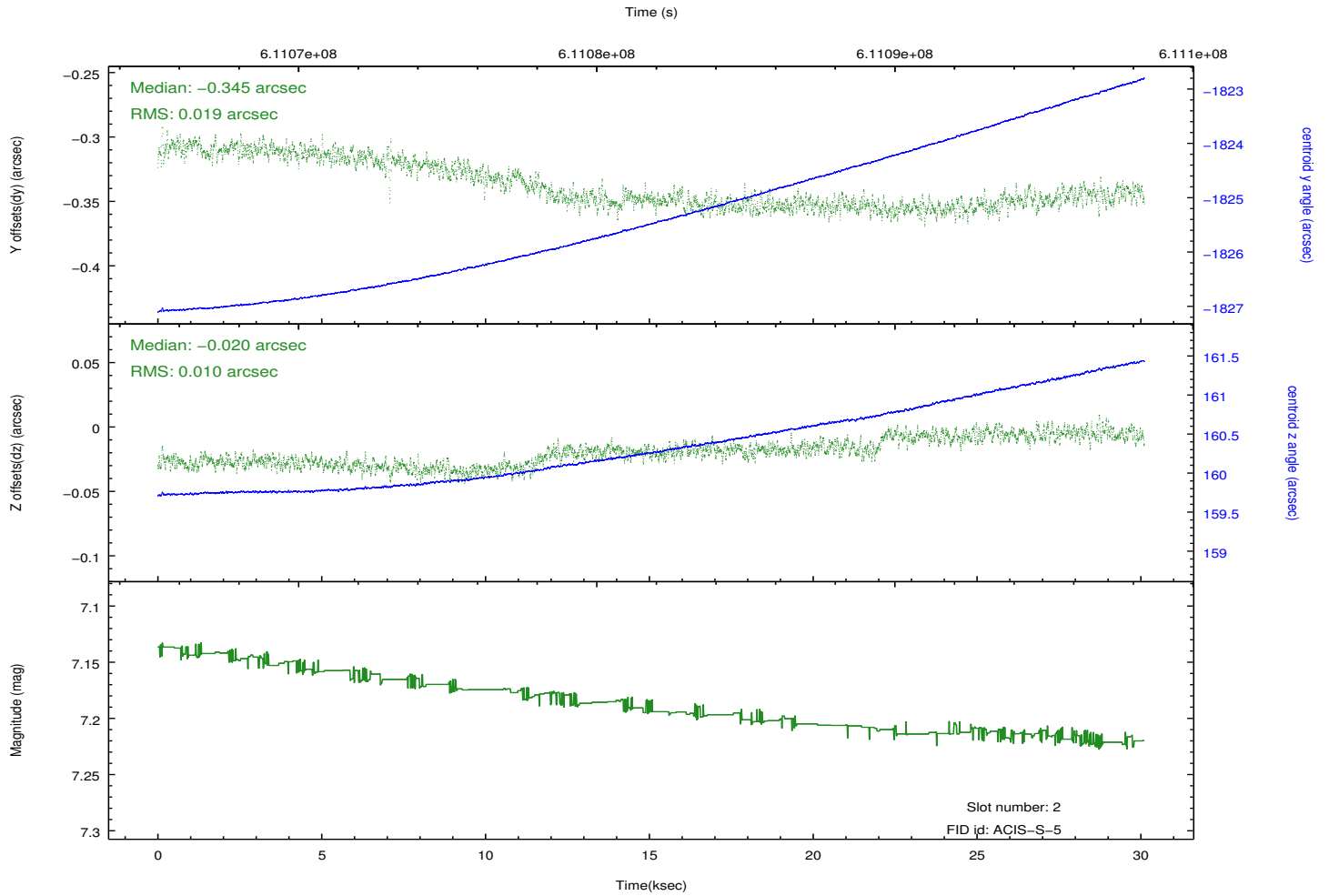
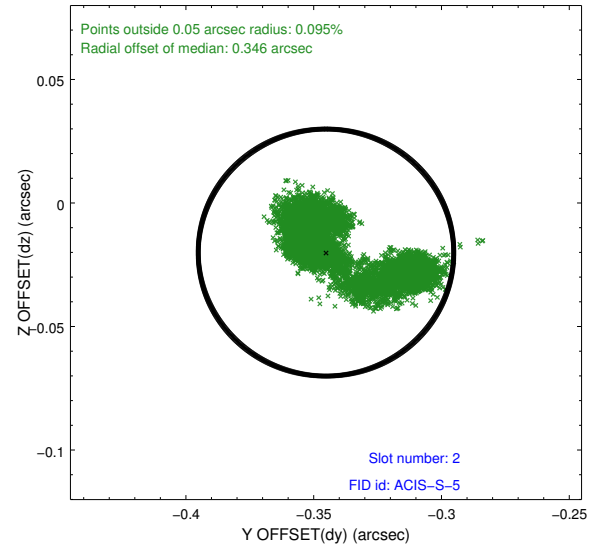
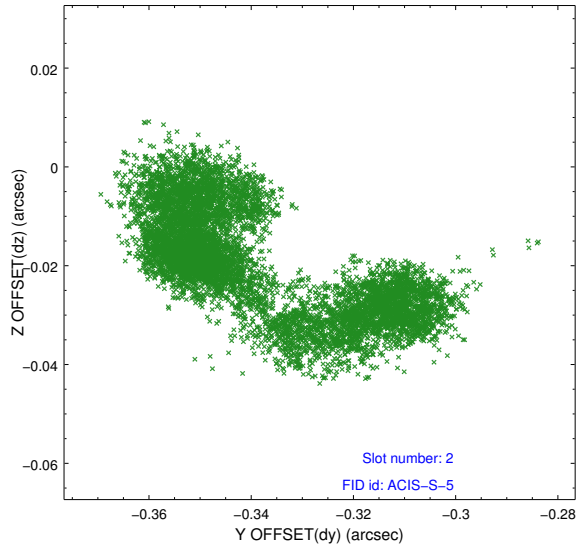
2.5.1 Slot 0



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)	2017.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.084156600237

A.2 Comments