

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17423 - L2 Version 1
Chandra X-Ray Center

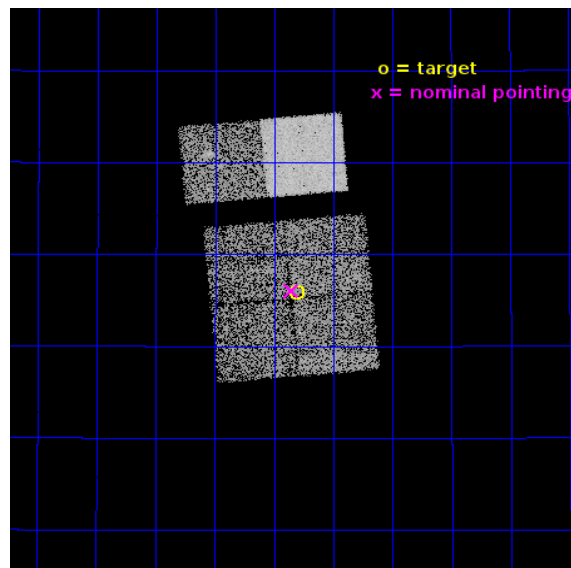
L2 Processing Date : Oct 29 2015

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

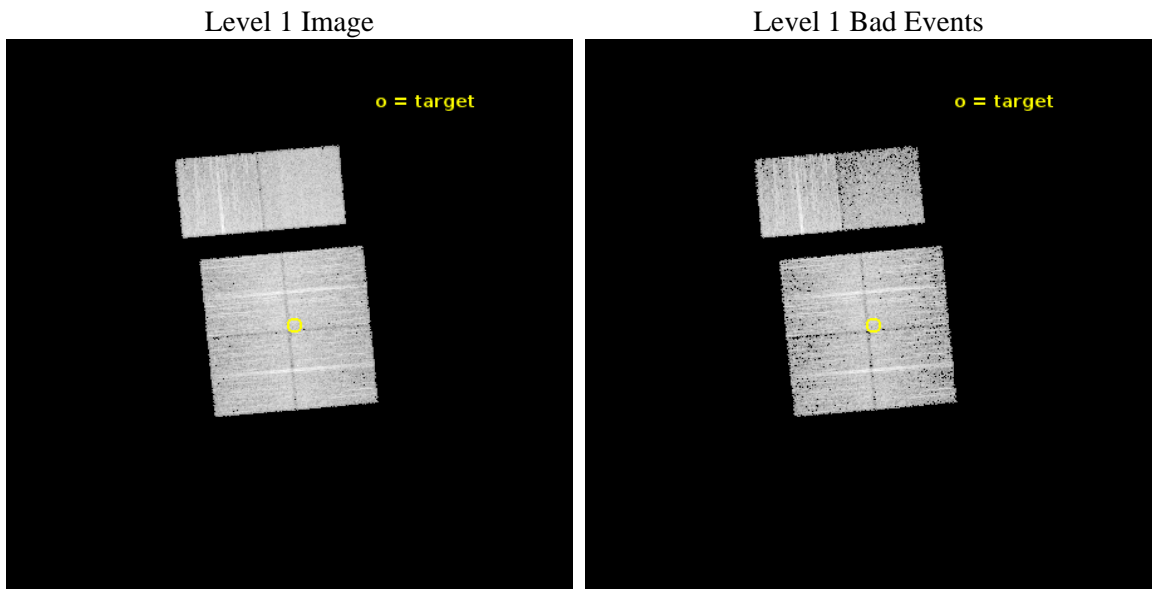
seq_num	901170	Sequence number
obs_id	17423	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.326667	Observer's specified target RA [deg]
dec_targ	34.431944	Observer's specified target Dec [deg]
ra_nom	217.33845264588	Nominal RA [deg]
dec_nom	34.434316657684	Nominal Dec [deg]
roll_nom	354.73933357049	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6201.600092411	Sum of GTIs [s]
livetime	6123.0716978857	Livetime [s]
ontime0	6201.600092411	Sum of GTIs [s]
ontime1	6201.600092411	Sum of GTIs [s]
ontime2	6201.600092411	Sum of GTIs [s]
ontime3	6201.600092411	Sum of GTIs [s]
ontime6	6201.600092411	Sum of GTIs [s]
ontime7	6201.600092411	Sum of GTIs [s]
l2events	47168	Number of level 2 events



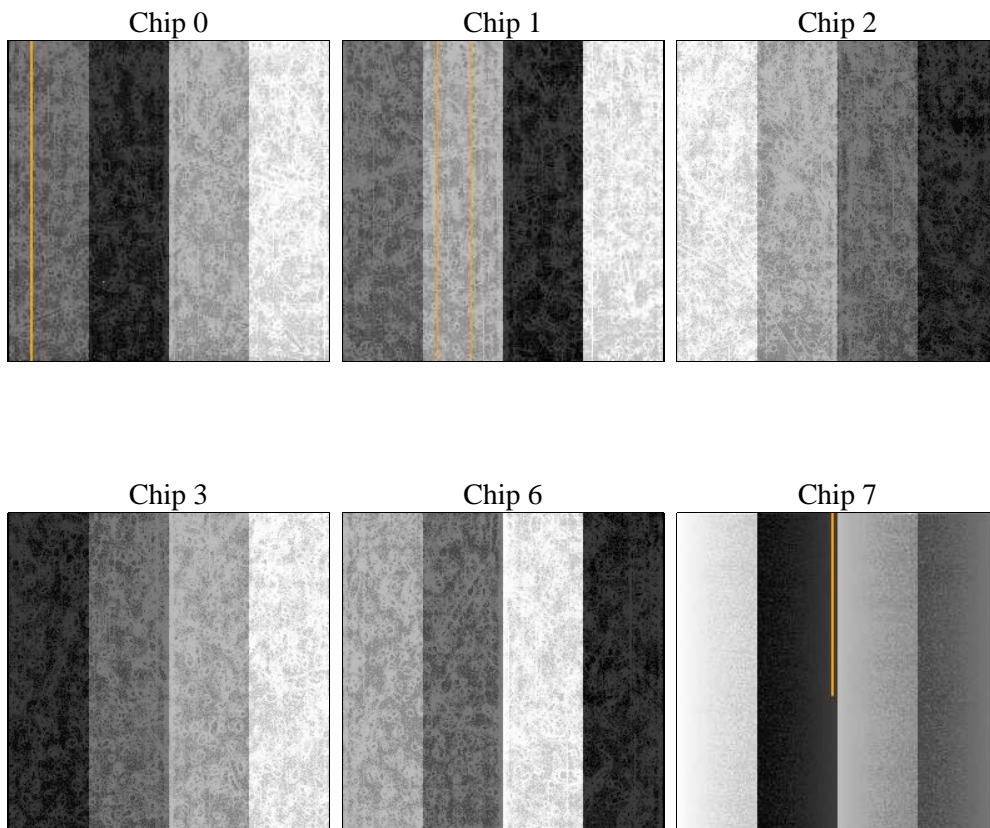
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.094000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6201.600092411	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6201.600092411	Sum of GTIs [s]
date	2015-10-29T21:51:30	Date and time of file creation	ontime1	6201.600092411	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6201.600092411	Sum of GTIs [s]
			ontime3	6201.600092411	Sum of GTIs [s]
			ontime6	6201.600092411	Sum of GTIs [s]
			ontime7	6201.600092411	Sum of GTIs [s]
			l1events	295919	Number of level 1 events

2.1.4 Events

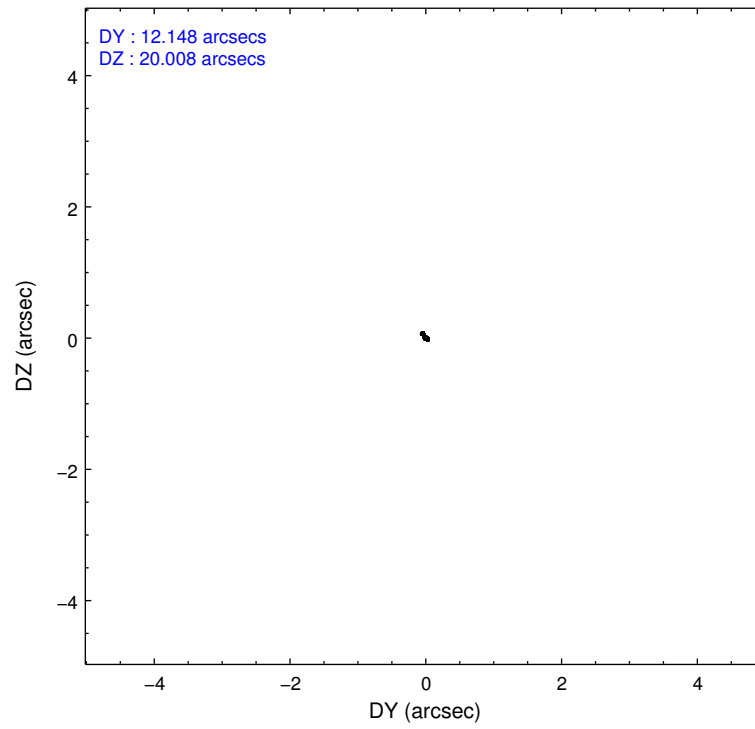
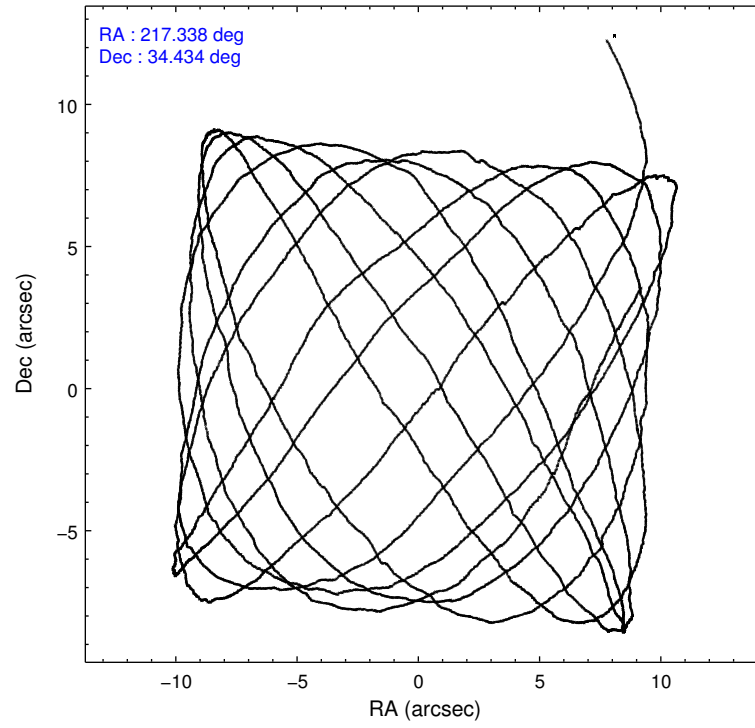
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	44455	44222	52803	50247	52925	51267	grade 0 events	2208	2452	2204	2321	2335	2430
rejected events	39034	38106	47315	44827	46985	26860		4%	5%	4%	4%	4%	4%
rejected %	87%	86%	89%	89%	88%	52%	grade 1 events	39	28	28	34	35	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	1265	1402	1294	1078	1326	5568
								2%	3%	2%	2%	2%	10%
							grade 3 events	489	577	513	522	519	2076
								1%	1%	0%	1%	0%	4%
							grade 4 events	480	518	539	577	560	1995
								1%	1%	1%	1%	1%	3%
							grade 5 events	1494	1629	1382	1751	1771	5019
								3%	3%	2%	3%	3%	9%
							grade 6 events	983	1171	939	927	1204	12346
								2%	2%	1%	1%	2%	24%
							grade 7 events	37497	36445	45904	43037	45175	21738
								84%	82%	86%	85%	85%	42%

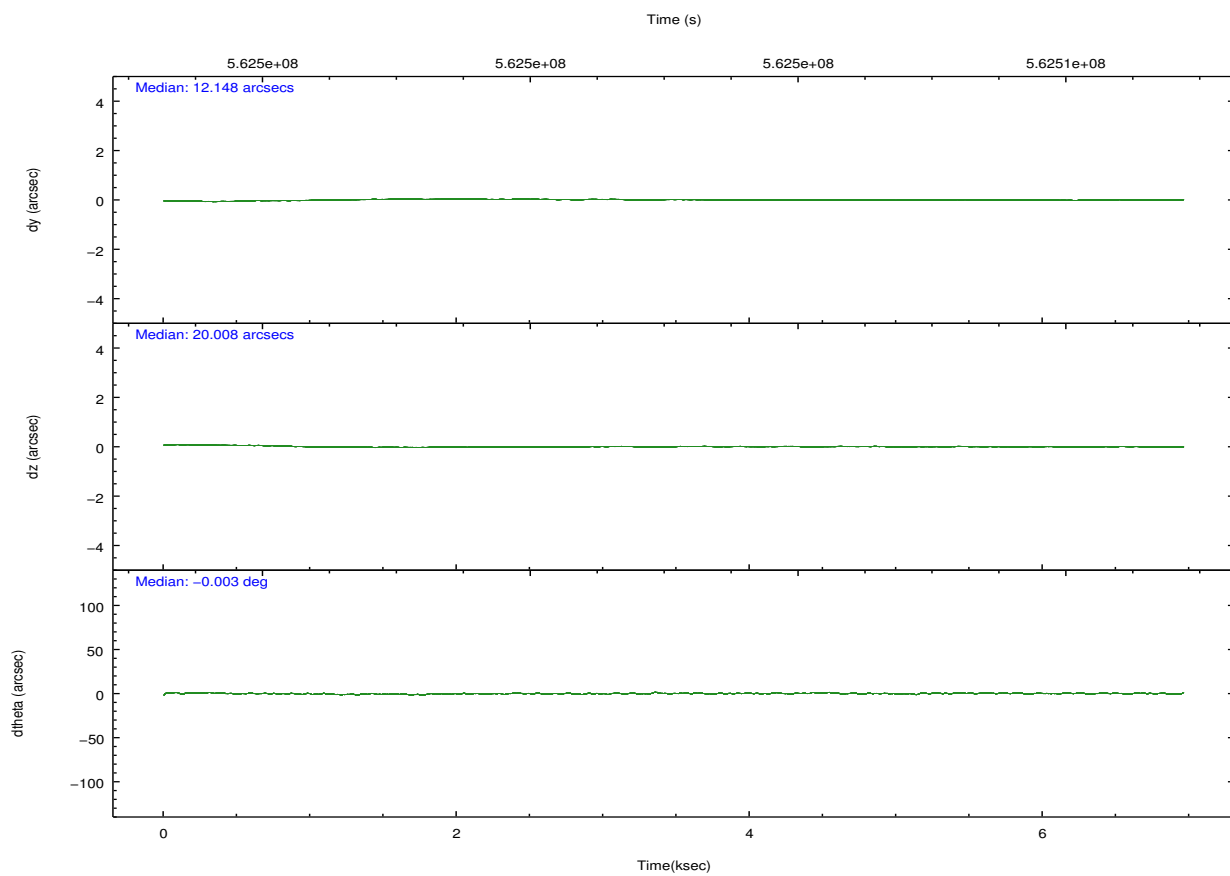
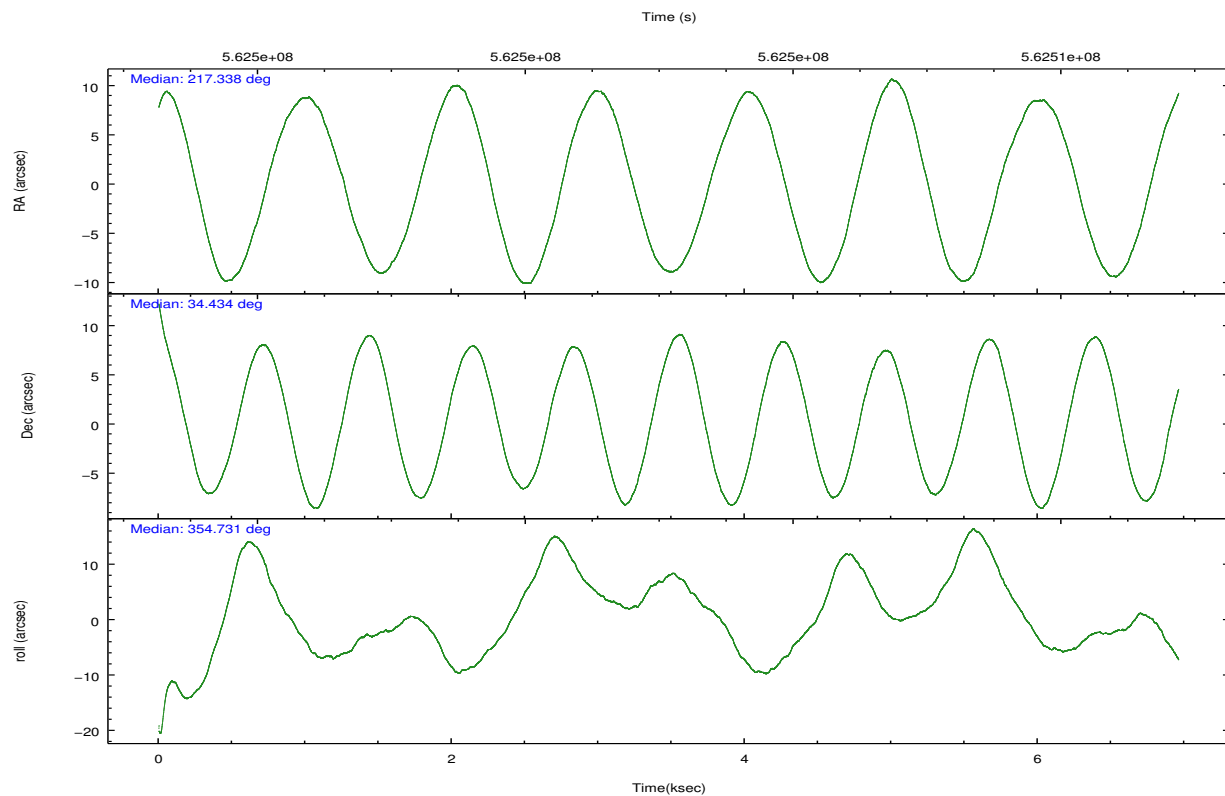
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	217.308137	217.3384526458813
[deg] Pointing Dec	34.422687	34.43431665768446
[deg] Pointing Roll	354.547805	354.7393335704928
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	562500300.184000	562499075.4535201
Observation start date	2015-10-29T10:03:52	2015-10-29T09:44:35
[s] Observation end time (MET)	562506550.184000	562506787.04146
Observation end date	2015-10-29T11:48:02	2015-10-29T11:53:07
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



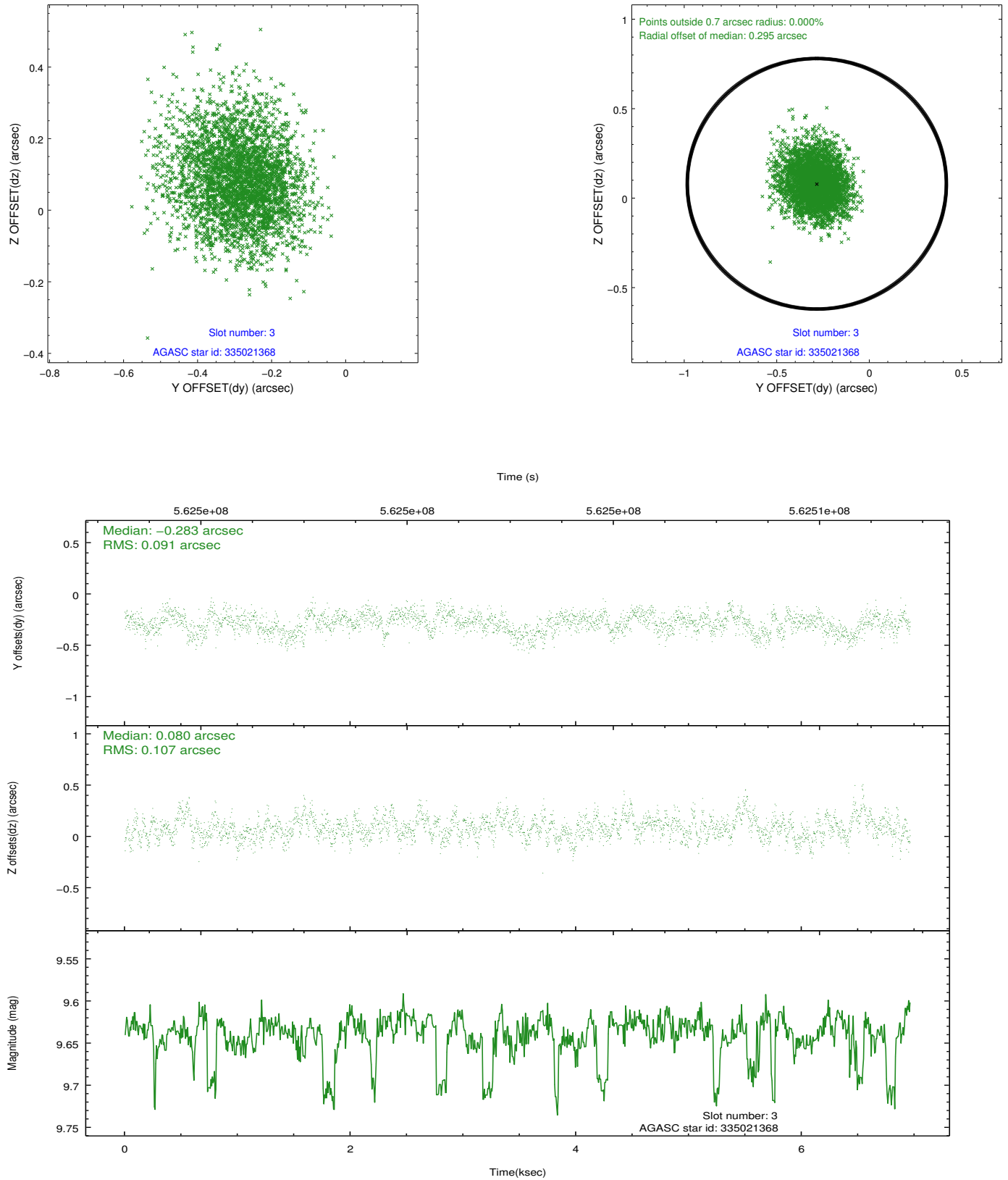


Slot Statistics

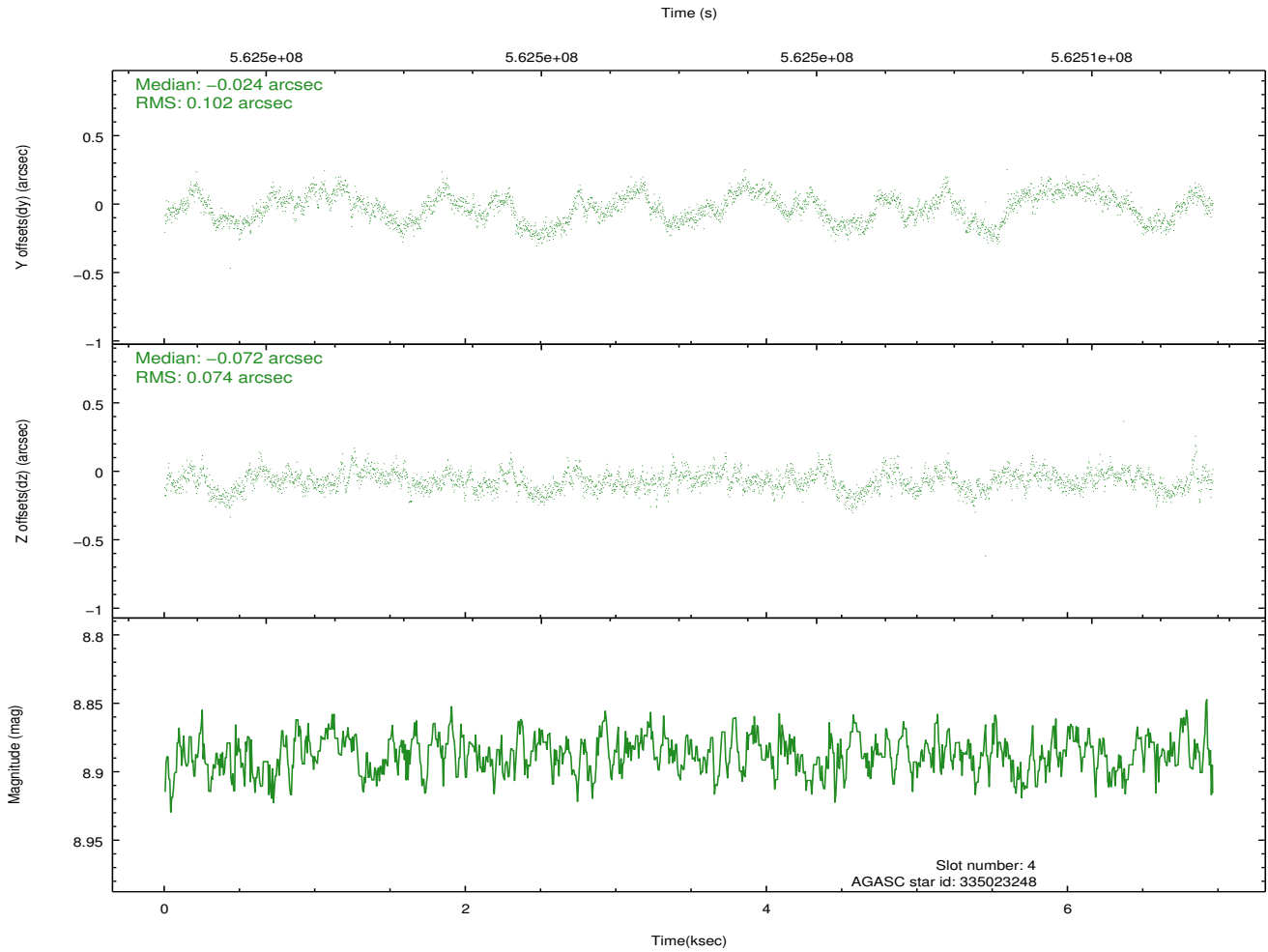
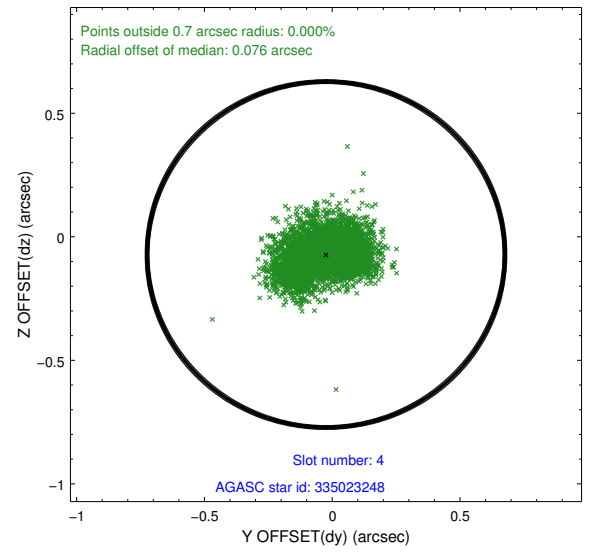
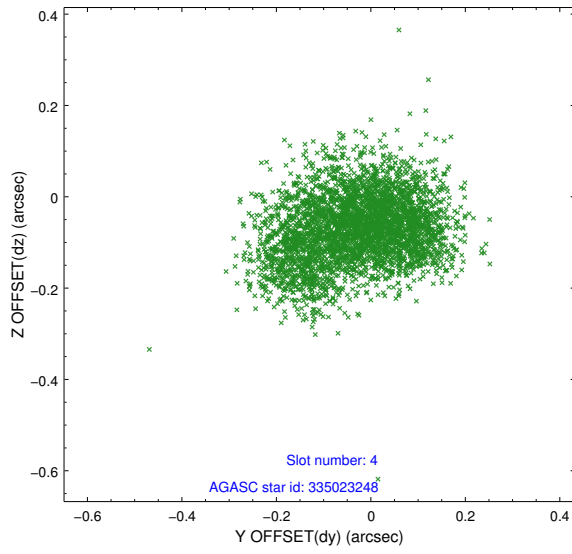
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	1698	0.073	-0.034	0.006	0.012	0.000000	0.000000	927.47	-843.77
1	FID		ACIS-I-5	7.25	1698	-0.280	0.056	0.006	0.011	0.000000	0.000000	-1820.56	1053.34
2	FID		ACIS-I-6	7.24	1698	0.116	0.049	0.006	0.010	0.000000	0.000000	392.11	1698.82
3	GUIDE	used	335021368	9.64	3387	-0.283	0.080	0.150	0.241	217.529643	33.934817	825.50	-1684.25
4	GUIDE	used	335023248	8.89	3394	-0.024	-0.072	0.137	0.210	217.634832	34.944512	781.14	1963.14
5	GUIDE	used	335025848	9.69	3389	0.045	0.439	0.201	0.335	217.530531	33.778292	883.56	-2243.89
6	GUIDE	used	335030384	8.81	3327	0.375	-0.038	0.106	0.181	216.806407	34.722197	-1580.11	935.28
7	GUIDE	used	335417968	9.39	3387	-0.088	-0.408	0.127	0.213	217.358149	35.055285	-70.45	2281.31

2.4 Star Slots

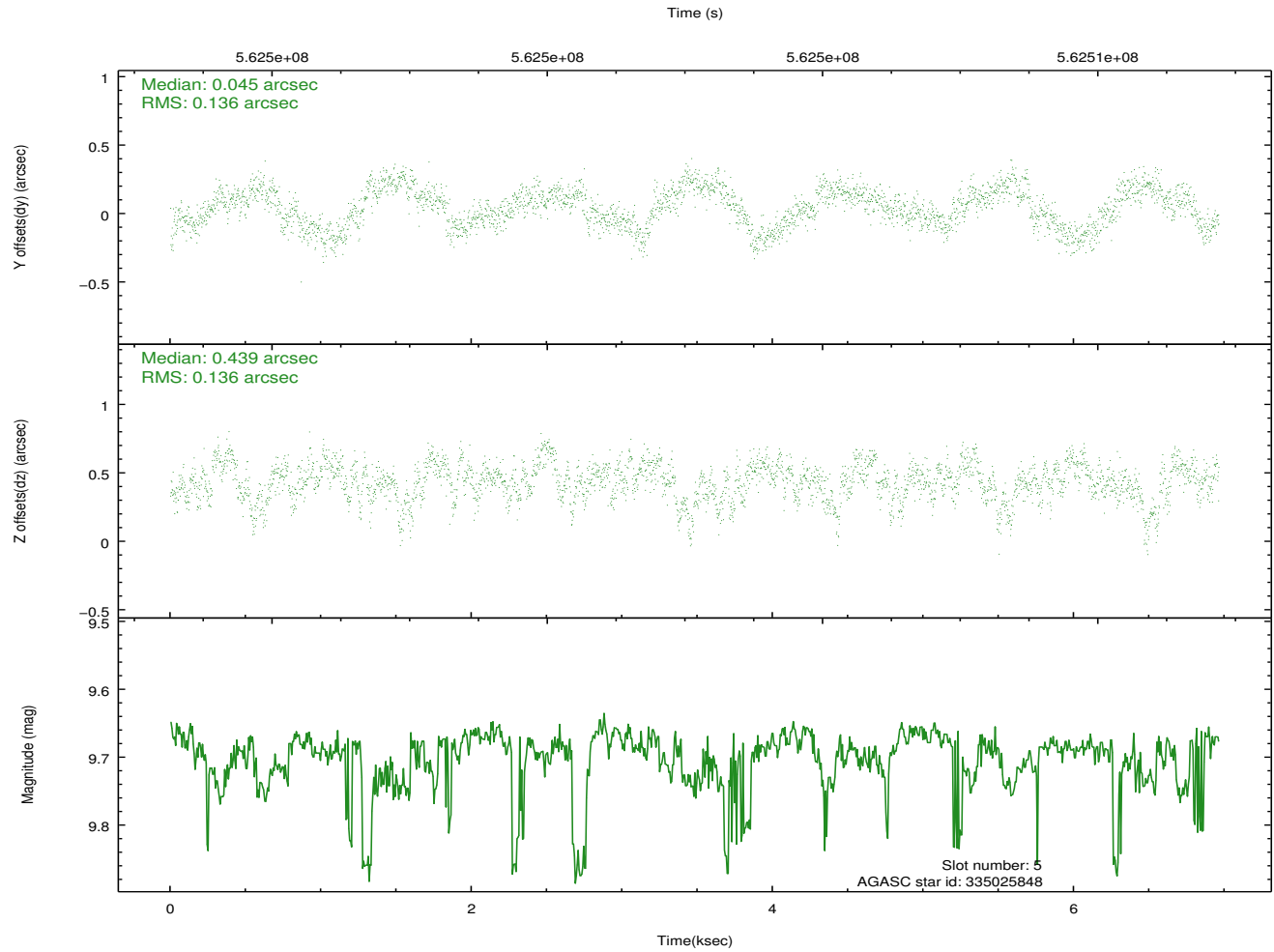
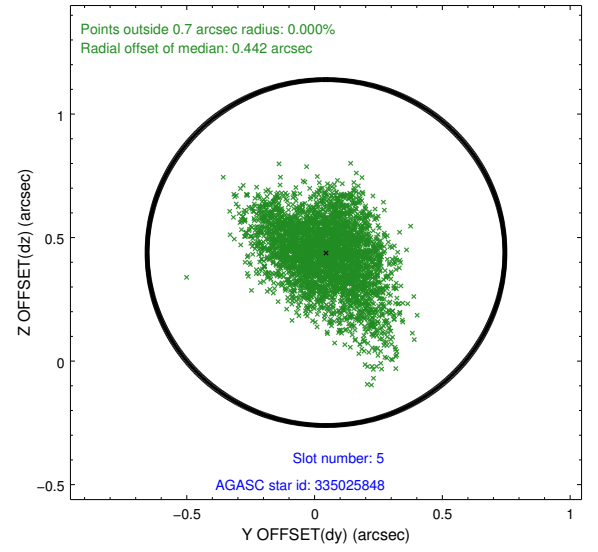
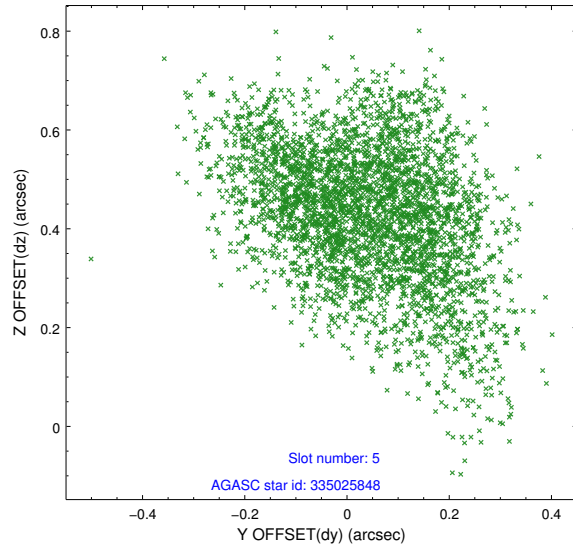
2.4.1 Slot 3



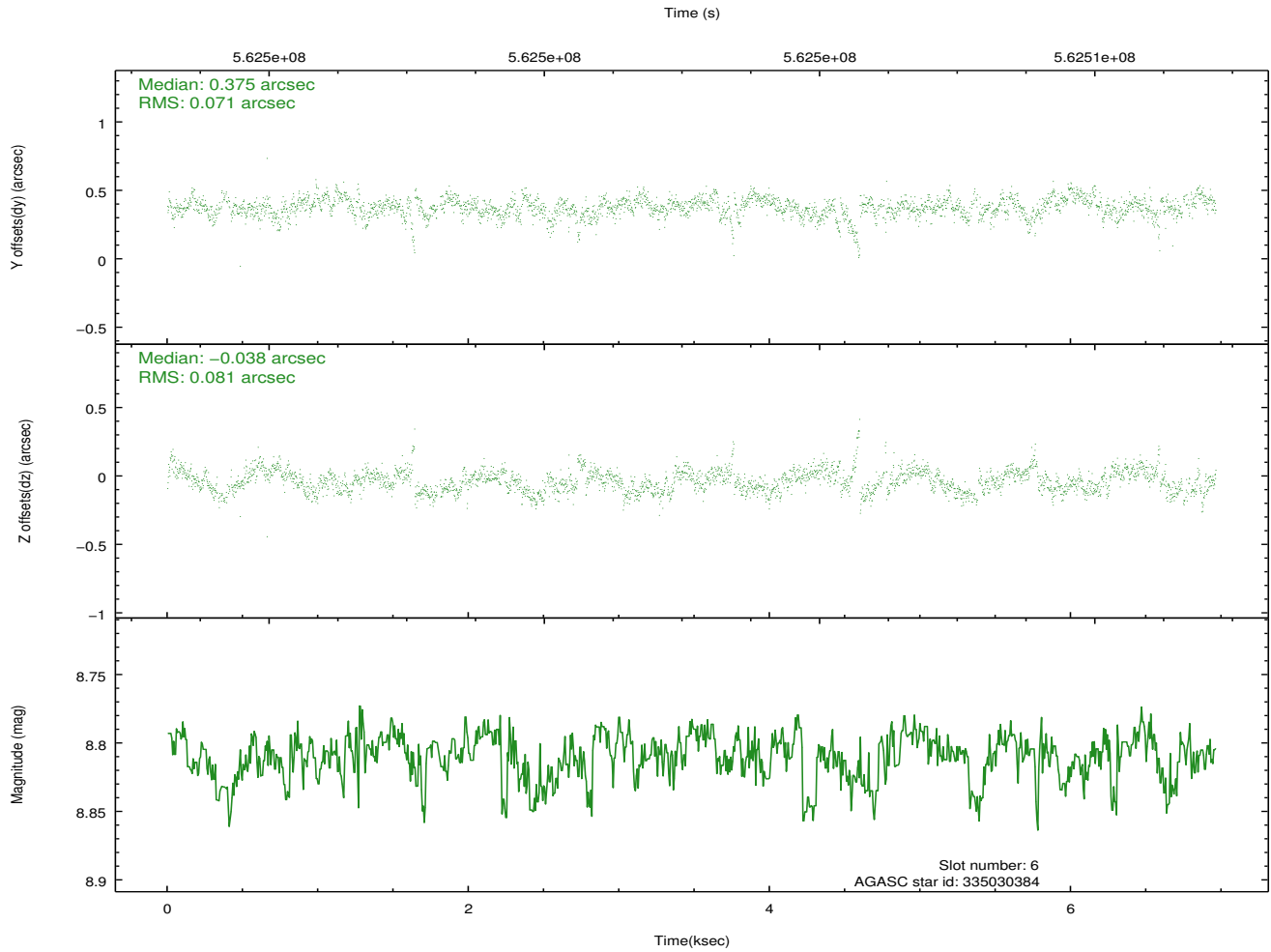
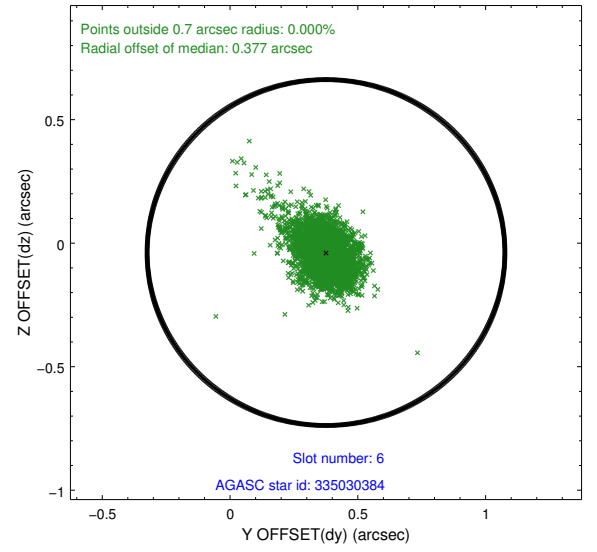
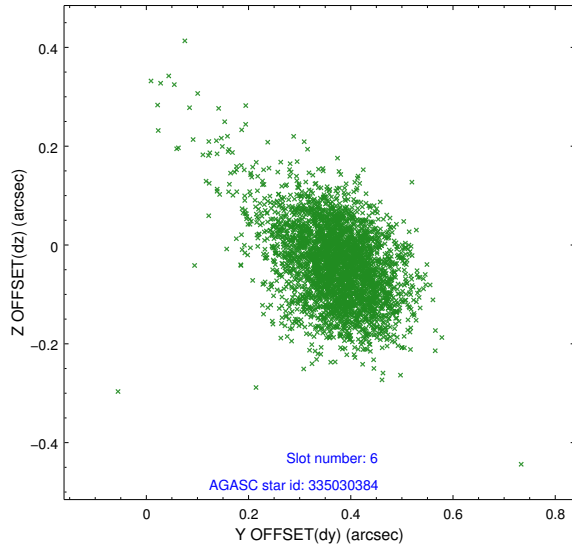
2.4.2 Slot 4



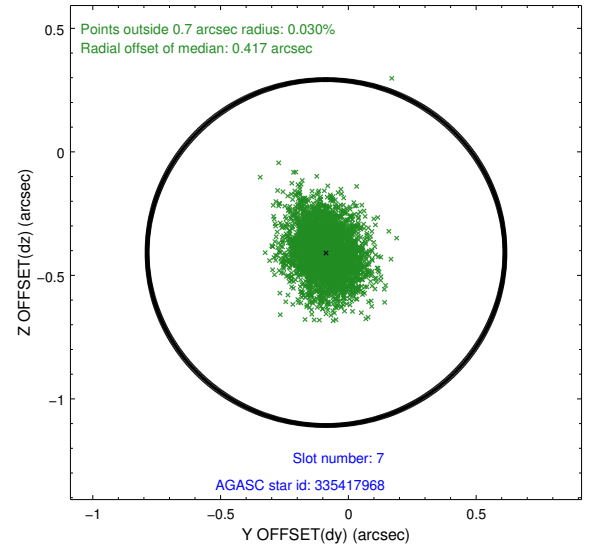
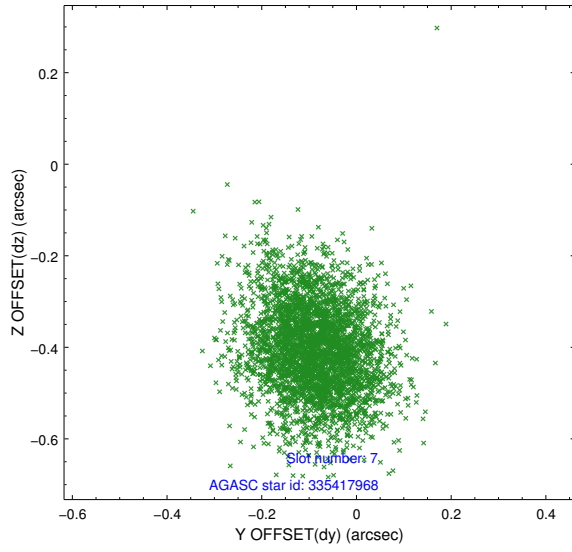
2.4.3 Slot 5



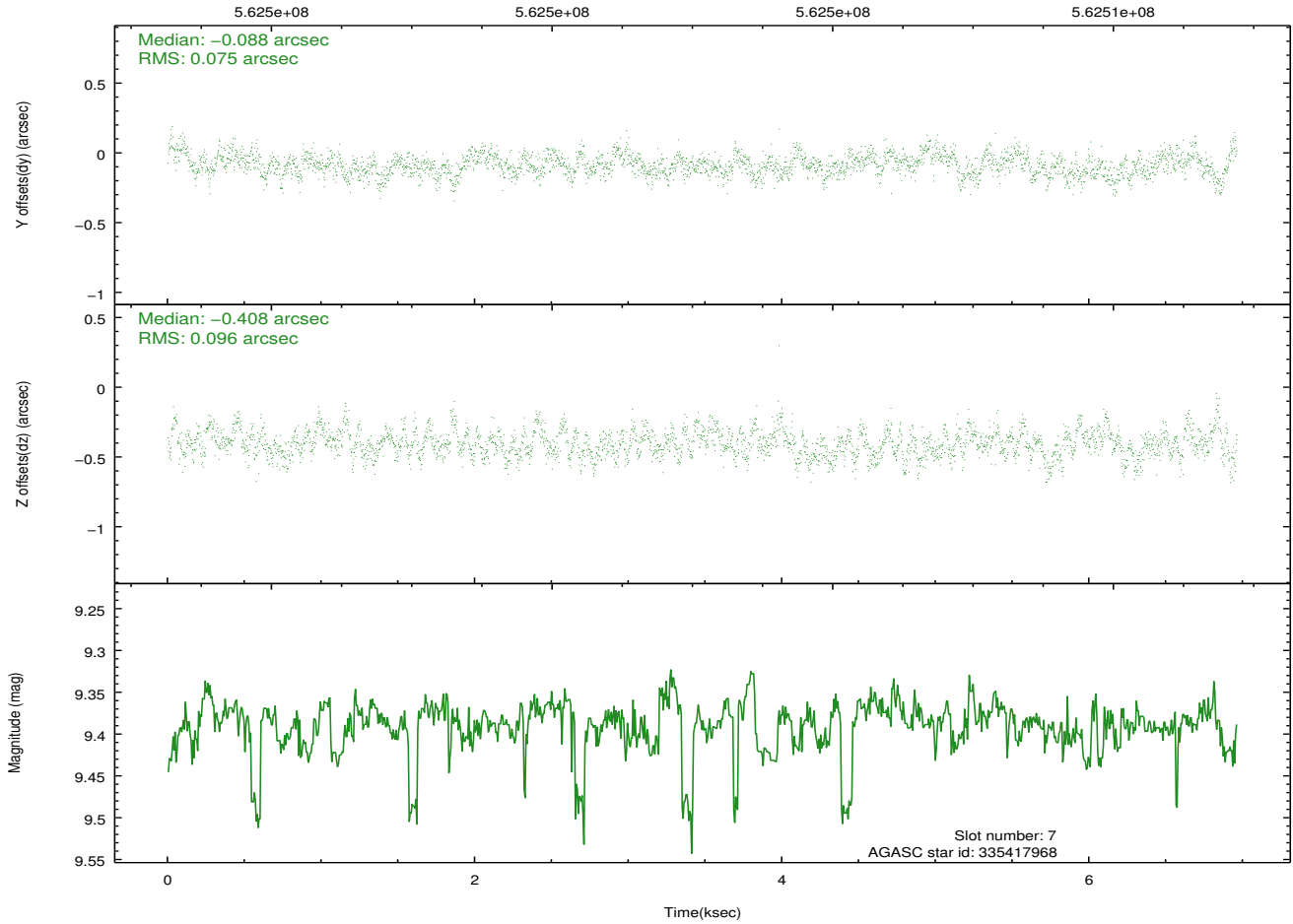
2.4.4 Slot 6



2.4.5 Slot 7

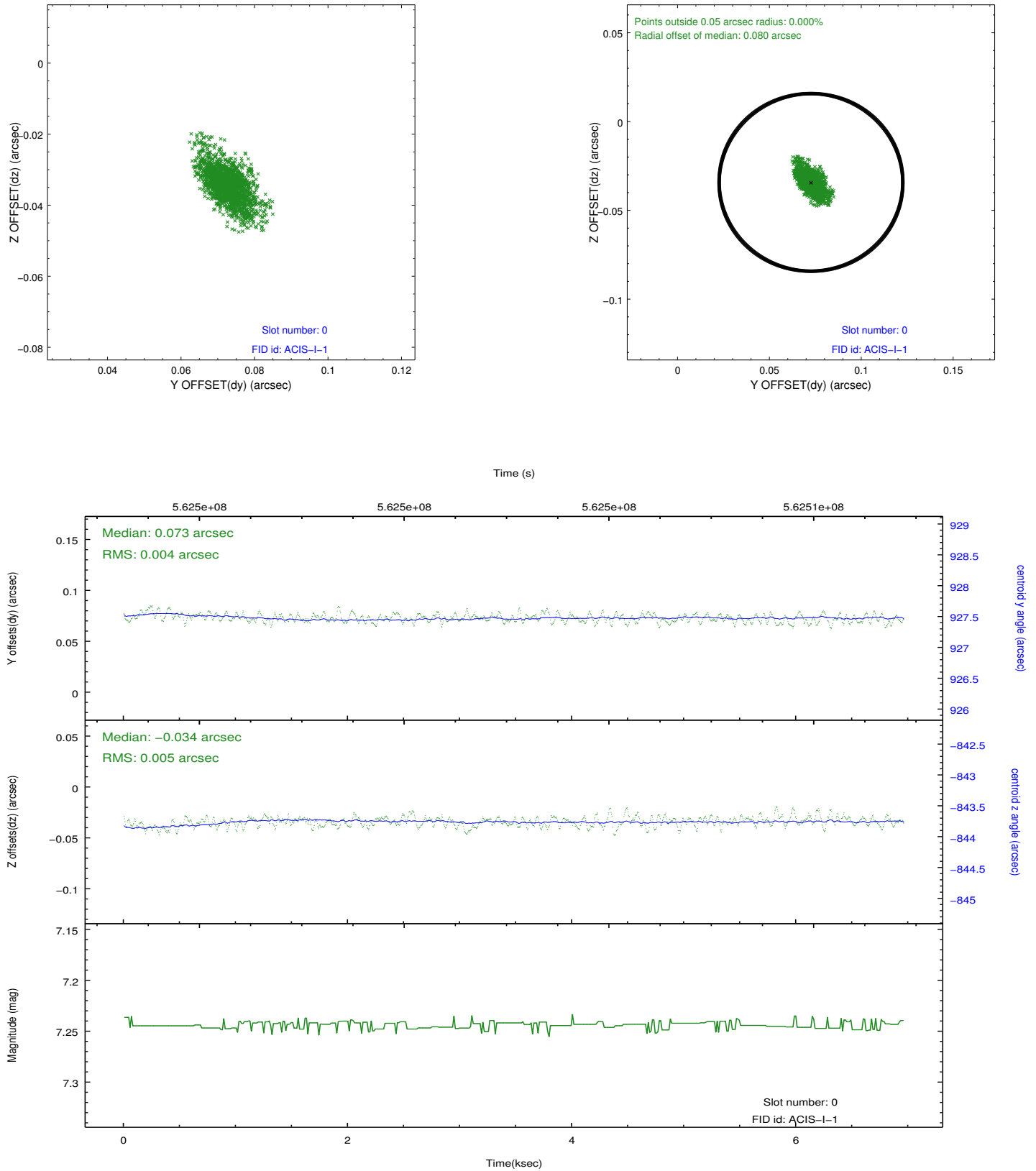


Time (s)

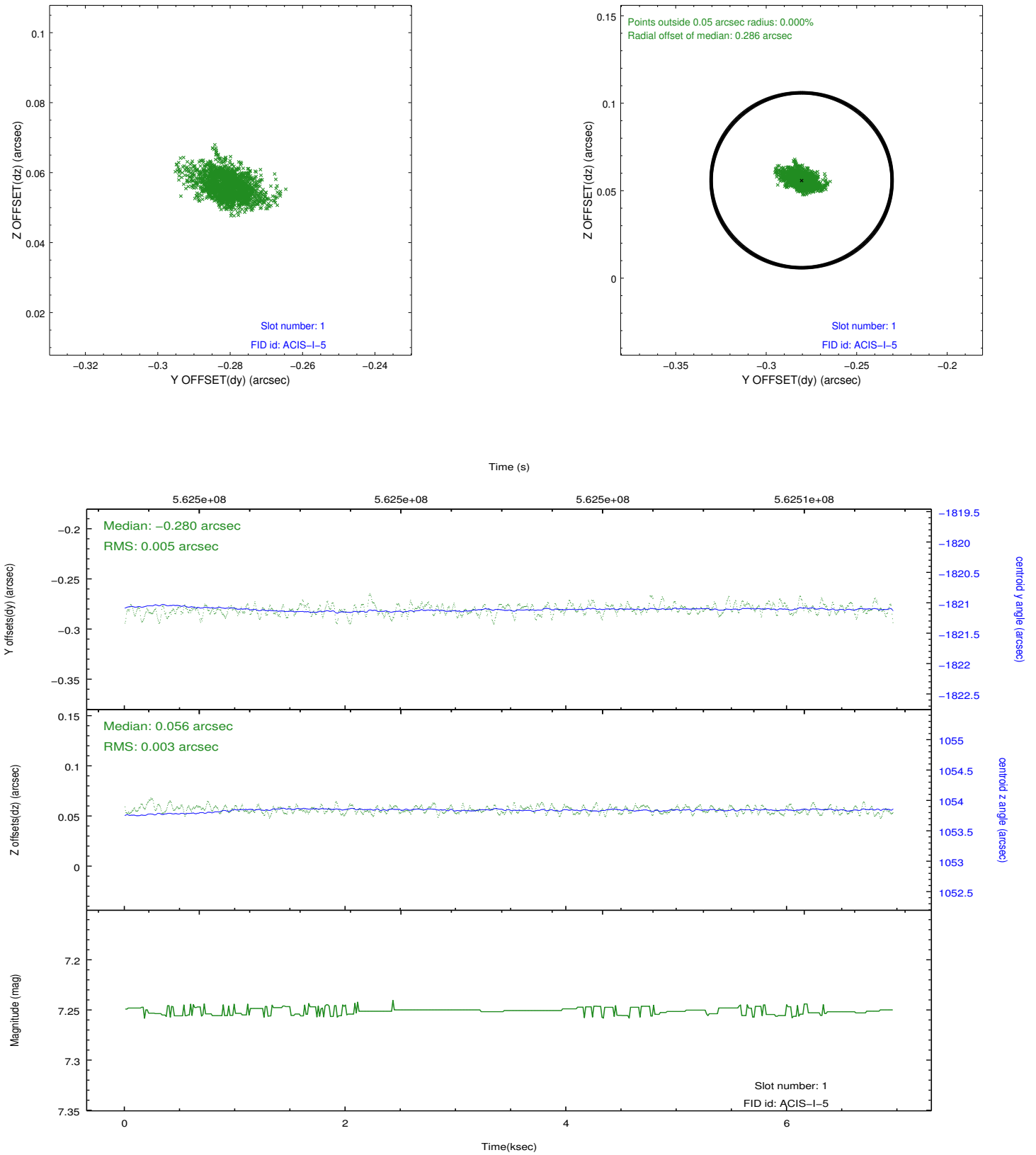


2.5 FID Slots

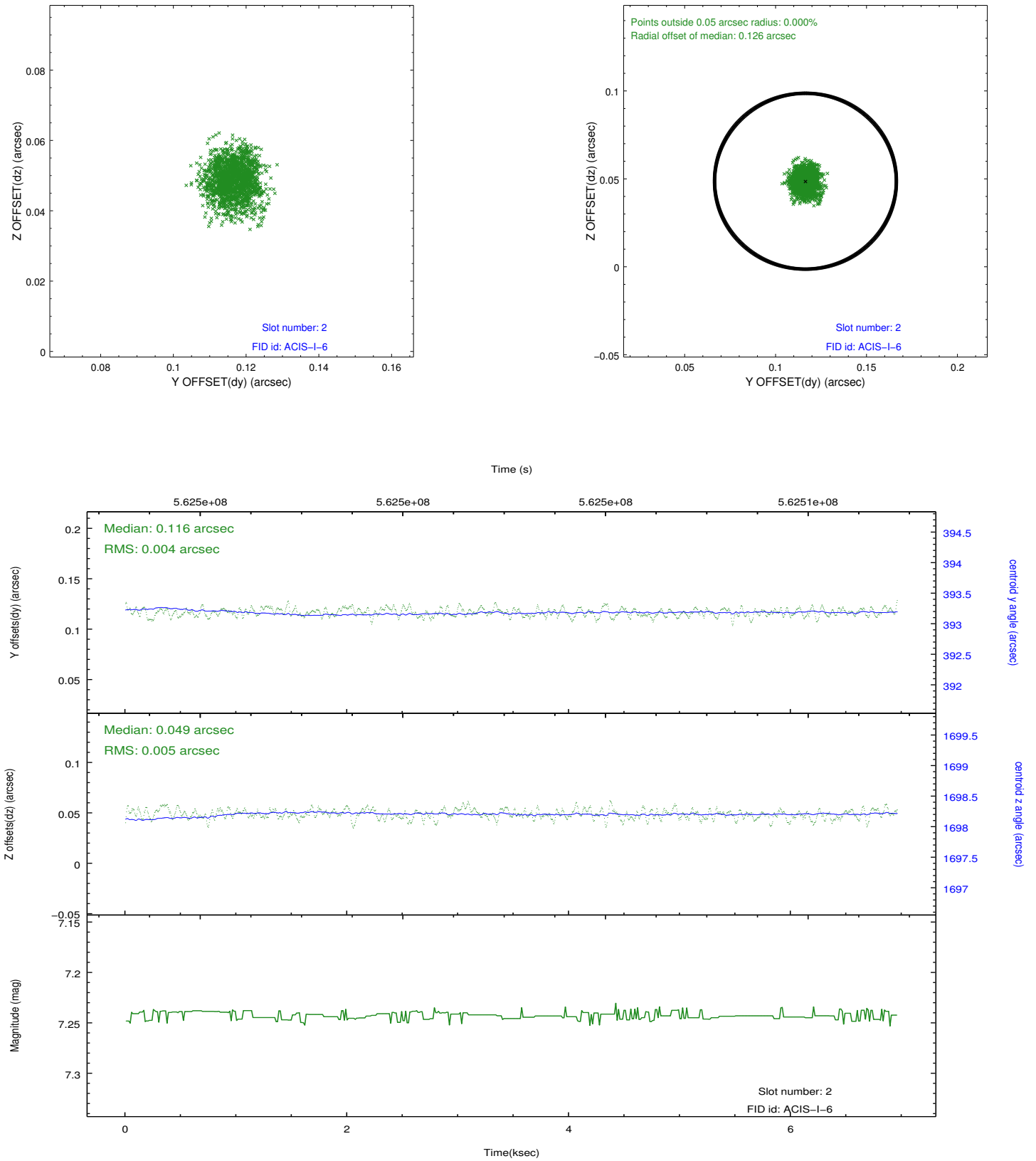
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.201600092411

A.2 Comments