

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17502 - L2 Version 1
Chandra X-Ray Center

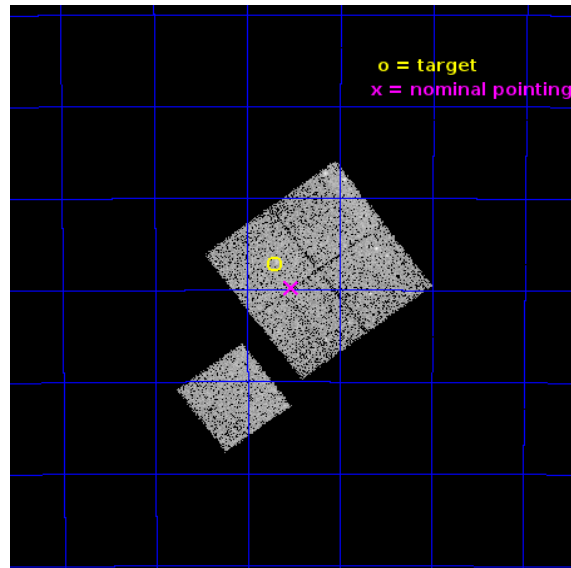
L2 Processing Date : Apr 14 2016

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

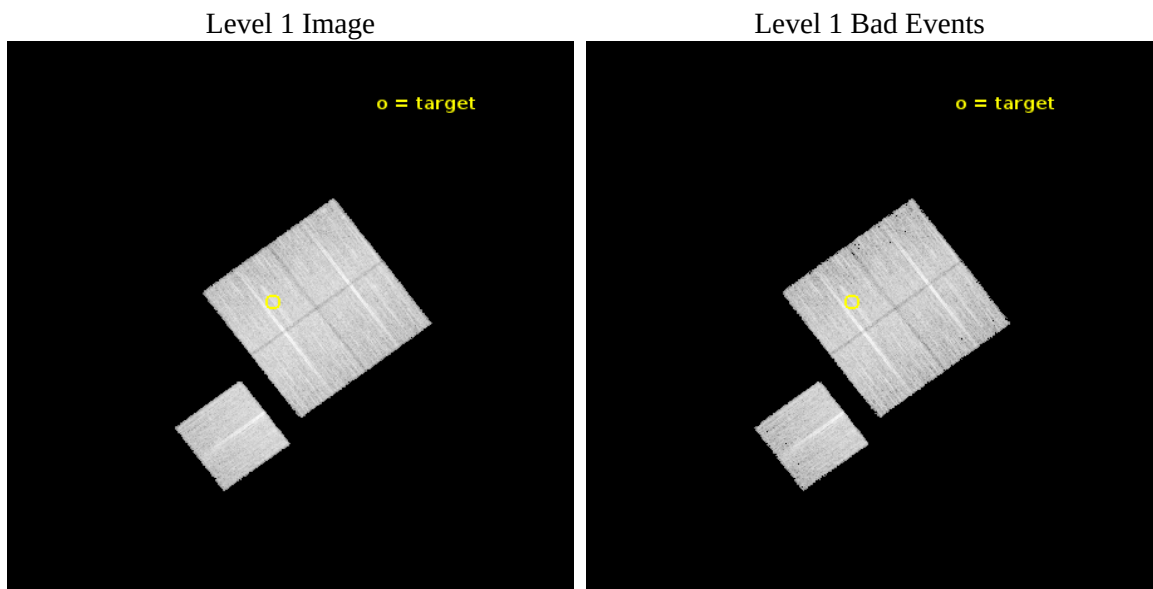
seq_num	801491	Sequence number
obs_id	17502	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0459-4947	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.927083	Observer's specified target RA [deg]
dec_targ	-49.787194	Observer's specified target Dec [deg]
ra_nom	74.881069801697	Nominal RA [deg]
dec_nom	-49.829598600525	Nominal Dec [deg]
roll_nom	233.17353120843	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15574.230857372	Sum of GTIs [s]
livetime	15370.742065639	Livetime [s]
ontime0	15574.107737422	Sum of GTIs [s]
ontime1	15574.148777366	Sum of GTIs [s]
ontime2	15571.048797369	Sum of GTIs [s]
ontime3	15574.230857372	Sum of GTIs [s]
ontime6	15574.066697359	Sum of GTIs [s]
l2events	43068	Number of level 2 events



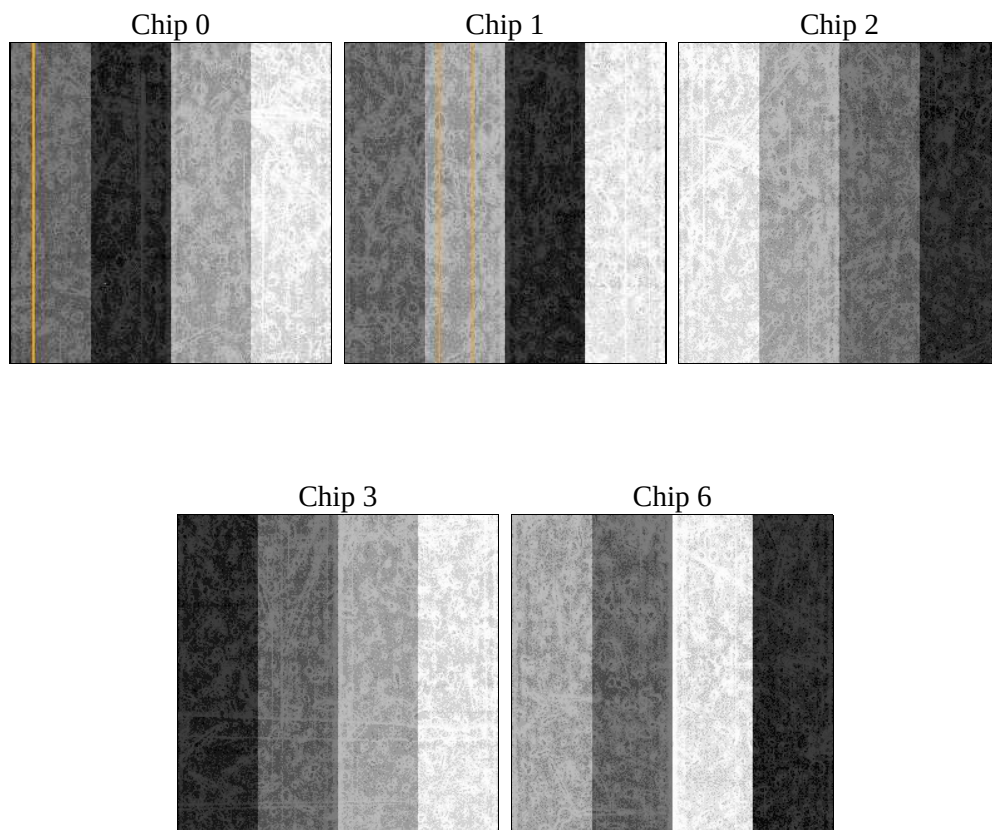
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	15574.230857372	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	15574.107737422	Sum of GTIs [s]
date	2016-04-15T01:28:16	Date and time of file creation	ontime1	15574.148777366	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15571.048797369	Sum of GTIs [s]
			ontime3	15574.230857372	Sum of GTIs [s]
			ontime6	15574.066697359	Sum of GTIs [s]
			l1events	441001	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	83024	86880	92537	89304	89256
rejected events	72779	75606	82809	79730	79167
rejected %	87%	87%	89%	89%	88%

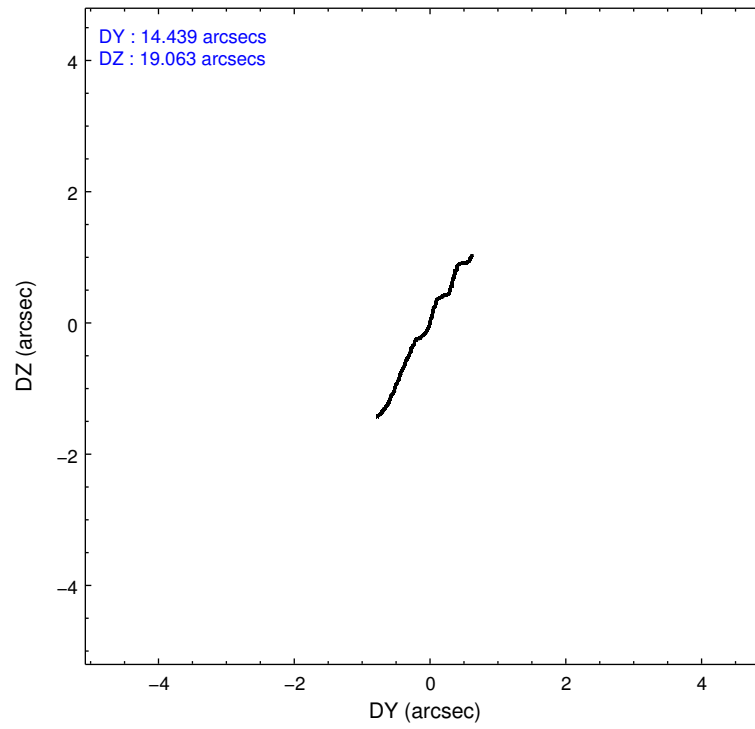
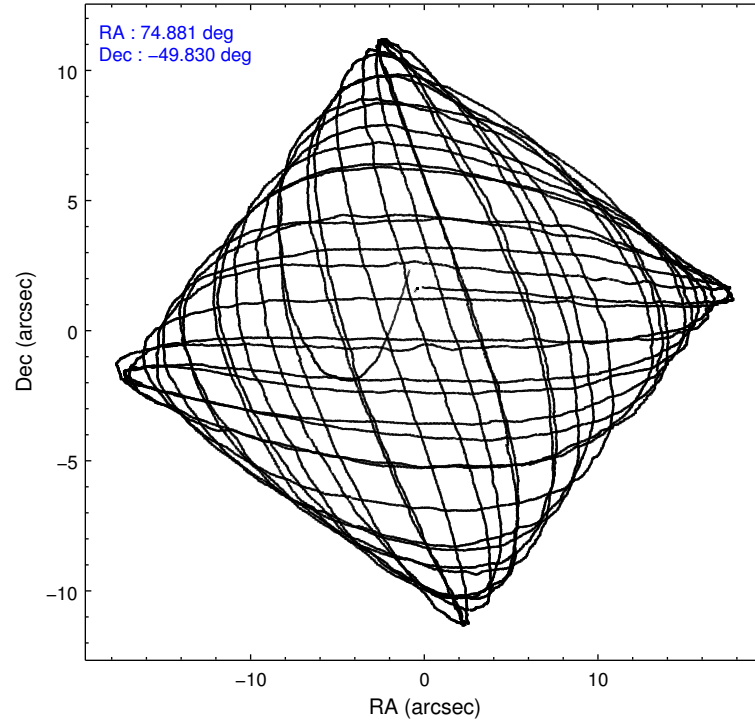
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3511	3753	3439	3298	3298
	4%	4%	3%	3%	3%
grade 1 events	42	40	51	63	48
	0%	0%	0%	0%	0%
grade 2 events	2625	2922	2430	2090	2324
	3%	3%	2%	2%	2%
grade 3 events	1066	1033	988	1104	1040
	1%	1%	1%	1%	1%
grade 4 events	930	1051	936	1027	992
	1%	1%	1%	1%	1%
grade 5 events	3778	4013	3500	4380	4174
	4%	4%	3%	4%	4%
grade 6 events	2114	2520	1941	2058	2440
	2%	2%	2%	2%	2%
grade 7 events	68958	71548	79252	75284	74940
	83%	82%	85%	84%	83%

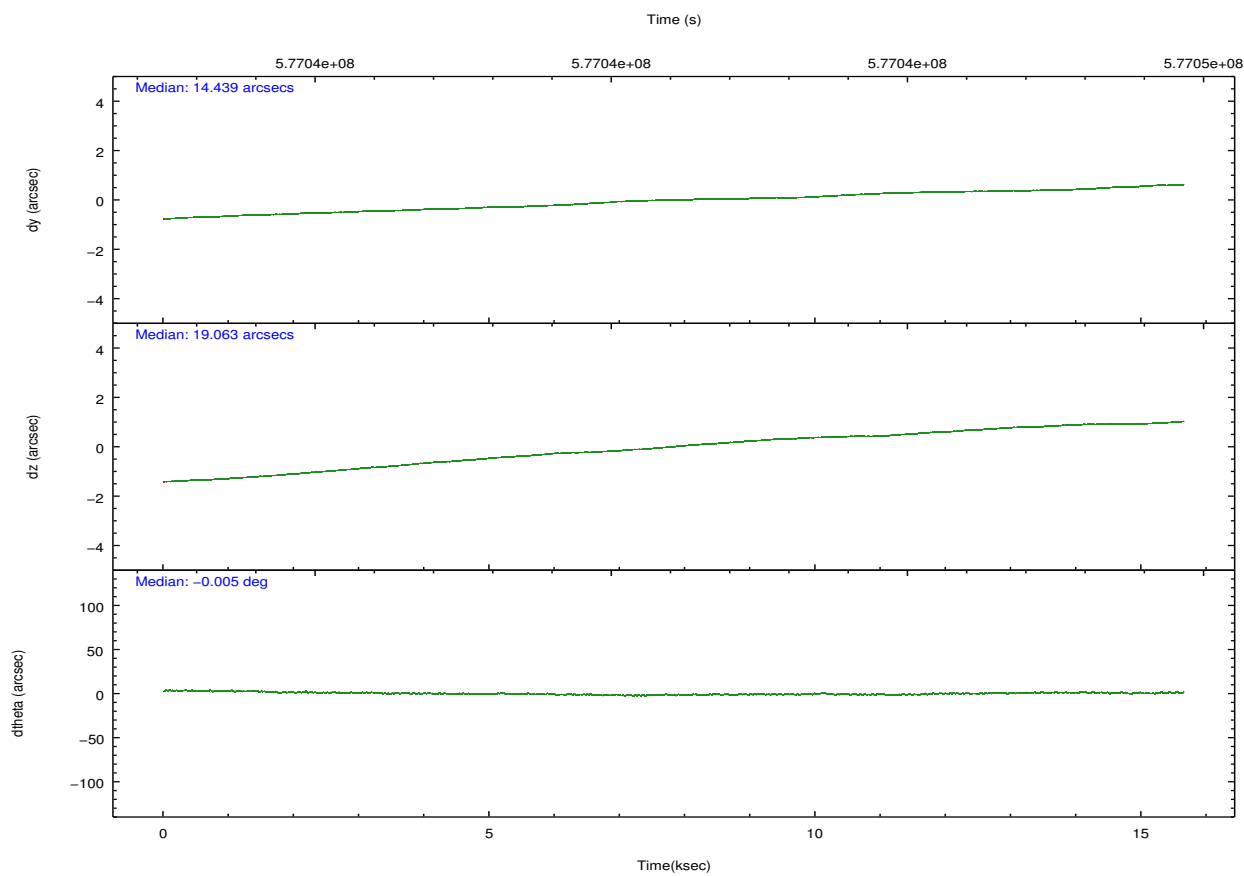
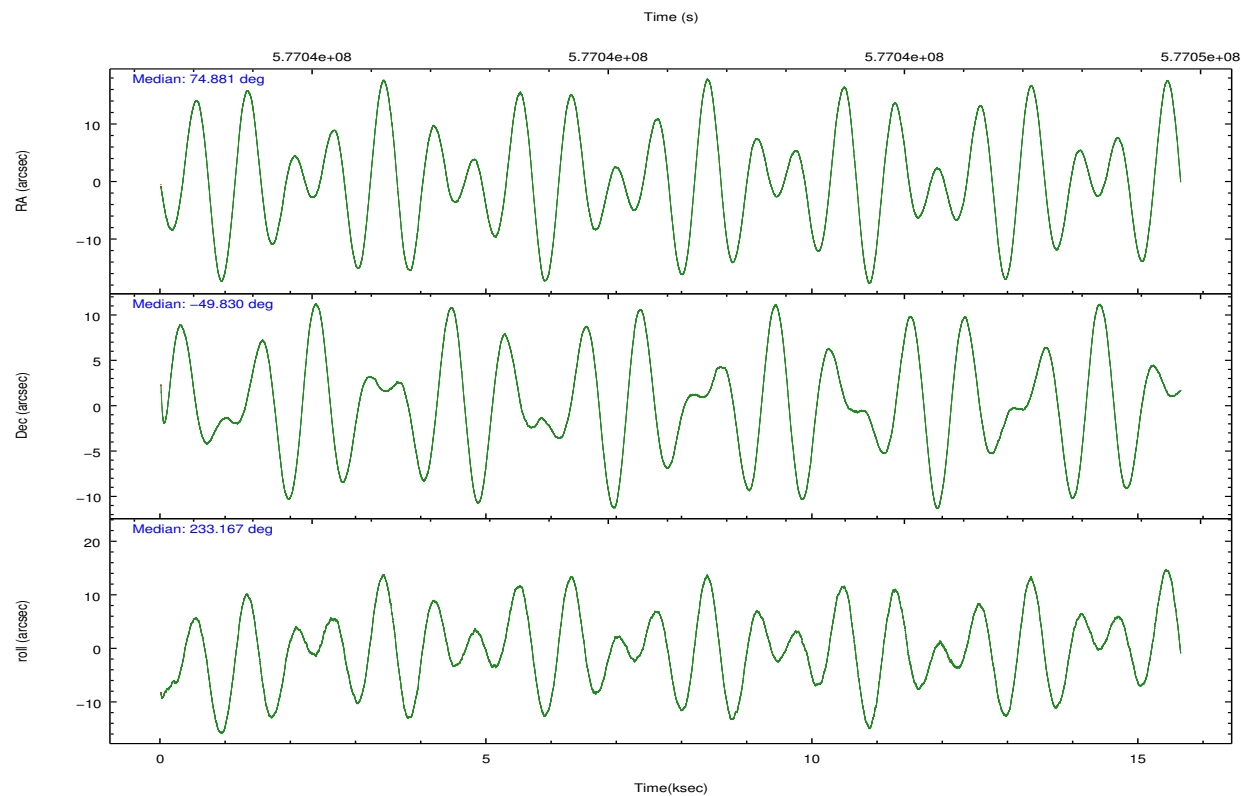
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	74.885963	74.88106980169705
[deg] Pointing Dec	-49.802205	-49.82959860052504
[deg] Pointing Roll	232.968587	233.1735312084255
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.842463	-225.8433433320239
[mm] SIM translation stage offset	-7.75	-7.749109670905796
[s] Observation start time (MET)	577033373.184000	577031893.67756
Observation start date	2016-04-14T15:01:45	2016-04-14T14:38:13
[s] Observation end time (MET)	577048873.184000	577049915.7410901
Observation end date	2016-04-14T19:20:05	2016-04-14T19:38:35
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	O1	Y
CCD S3 on	N	N
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	3.1

2.3 Aspect



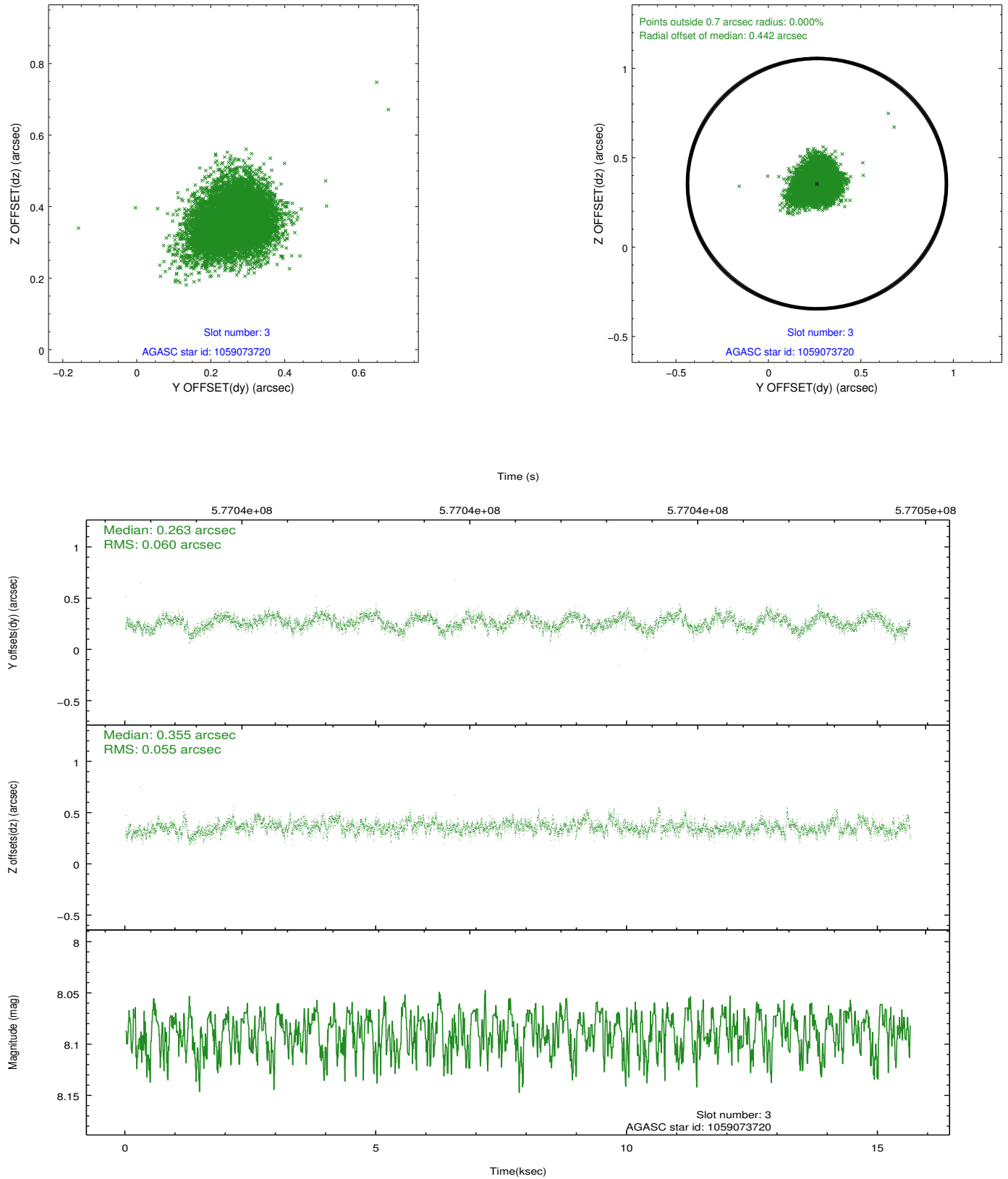


Slot Statistics

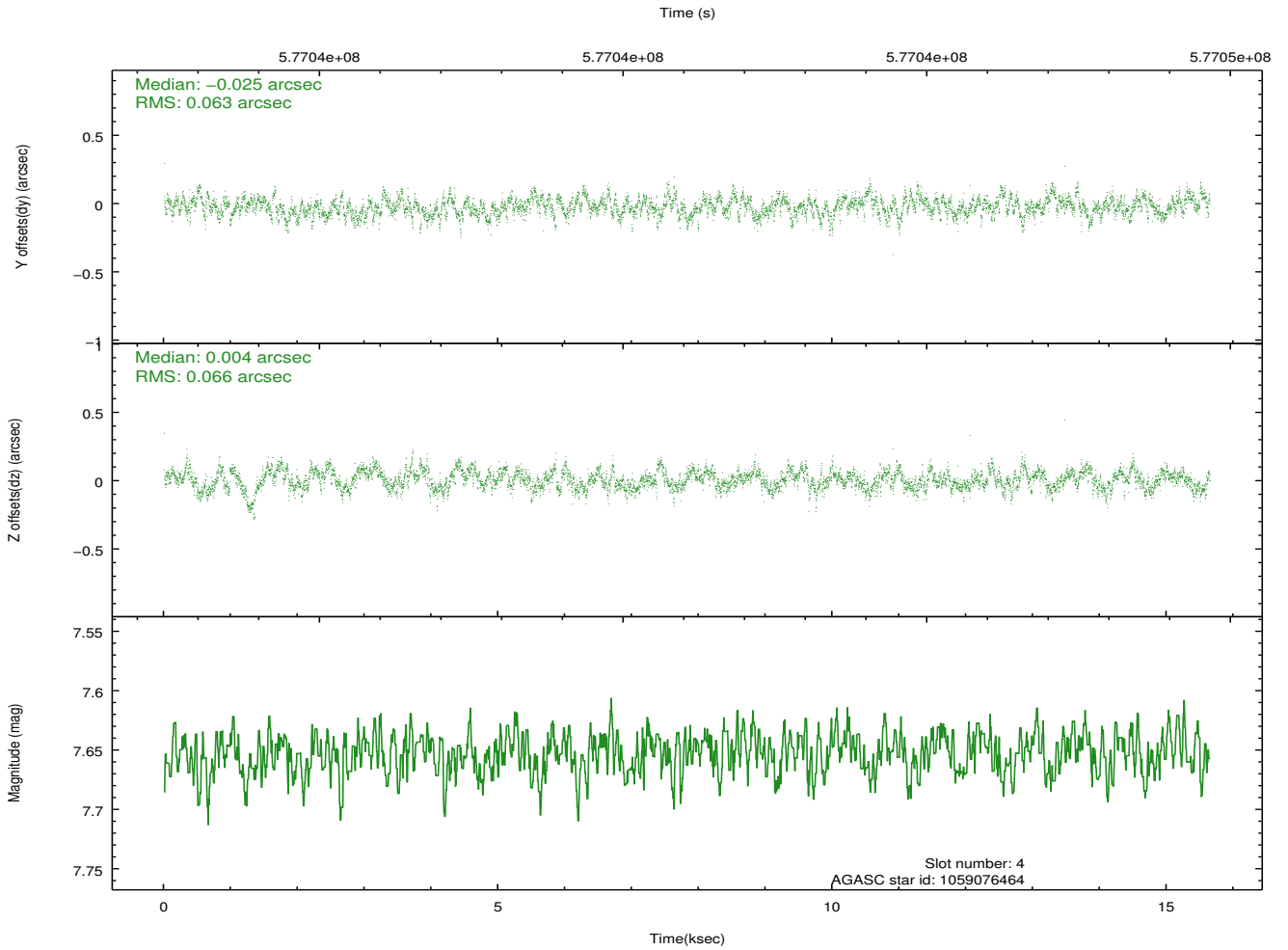
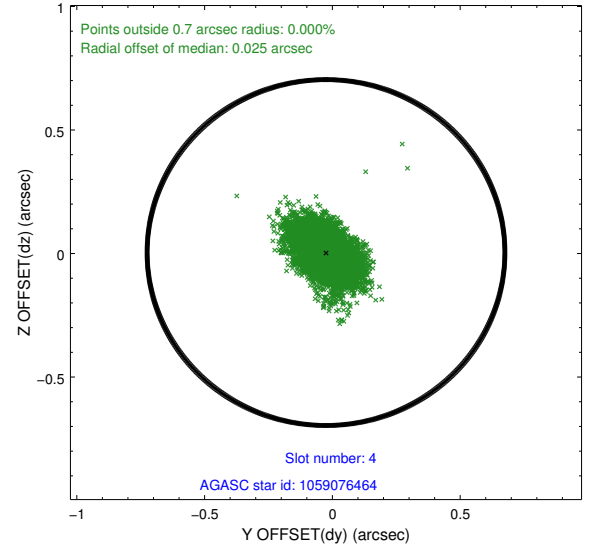
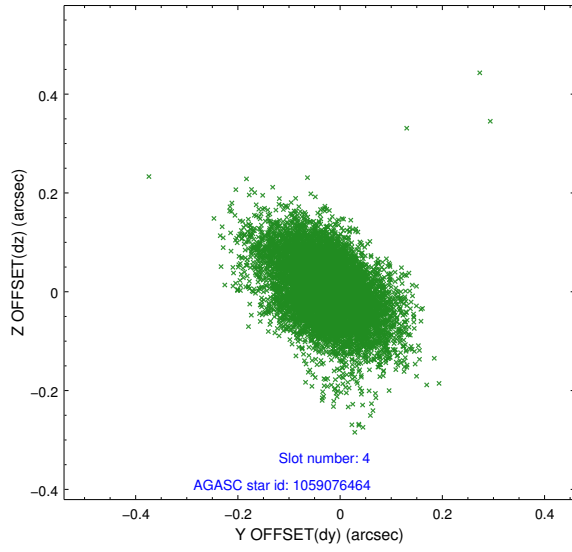
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	3816	0.135	-0.113	0.026	0.042	0.000000	0.000000	925.13	-1001.84
1	FID		ACIS-I-5	7.24	3816	-0.405	0.072	0.010	0.025	0.000000	0.000000	-1823.46	895.50
2	FID		ACIS-I-6	7.27	3816	0.178	0.107	0.027	0.041	0.000000	0.000000	390.27	1540.49
3	GUIDE	used	1059073720	8.09	7629	0.263	0.355	0.087	0.136	74.658527	-49.231044	-1318.40	-1664.01
4	GUIDE	used	1059076464	7.65	7627	-0.025	0.004	0.094	0.162	73.790094	-49.945515	1956.15	-1703.72
5	GUIDE	used	1059201000	7.11	7630	-0.070	0.023	0.083	0.139	75.733601	-49.703433	-1463.71	1366.87
6	GUIDE	used	1059206568	7.04	7631	0.055	0.064	0.081	0.134	75.815619	-49.492286	-2189.64	1071.95
7	GUIDE	used	1059592008	8.12	7568	-0.228	-0.457	0.088	0.139	75.466024	-50.276117	561.71	2096.14

2.4 Star Slots

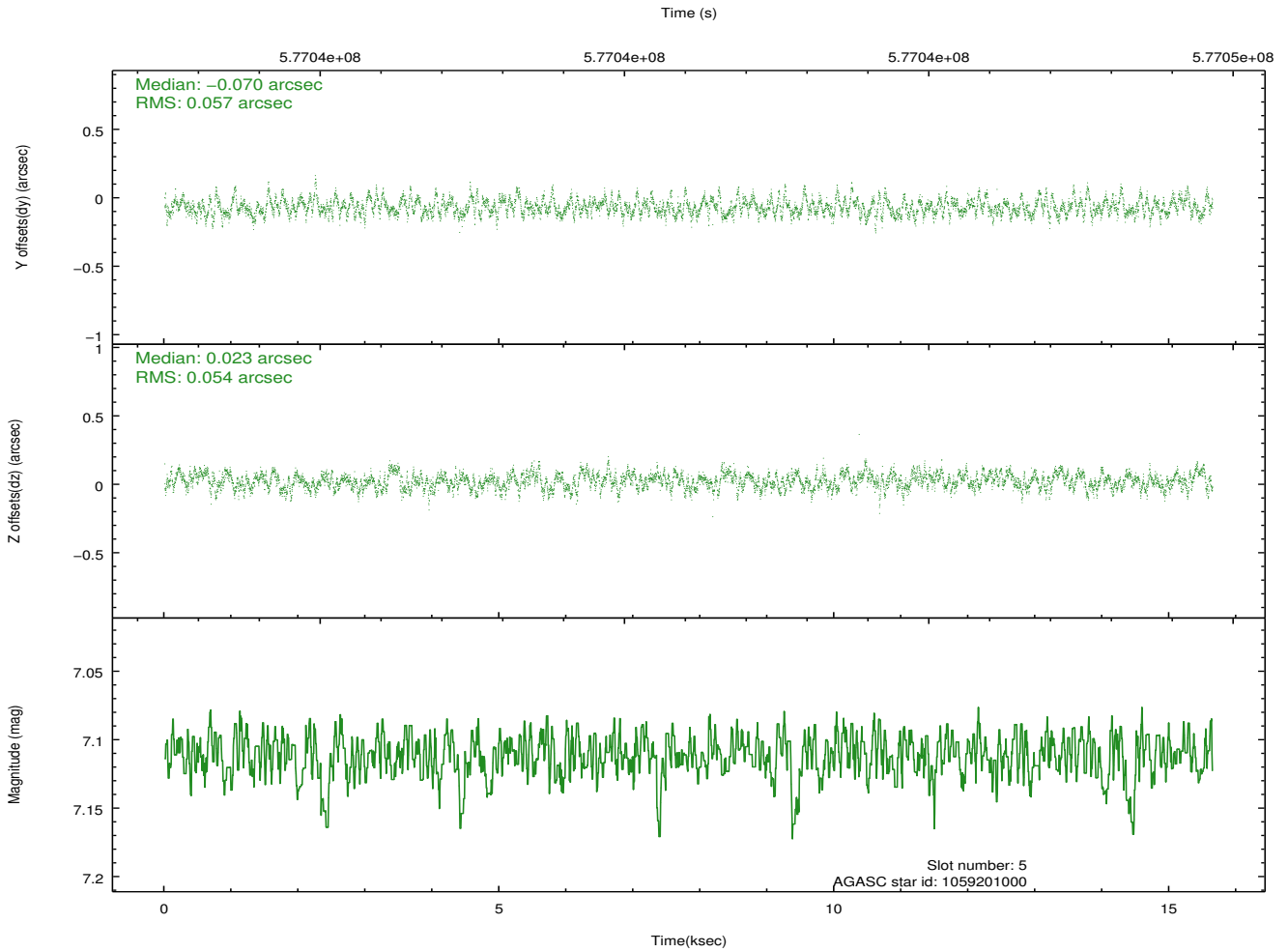
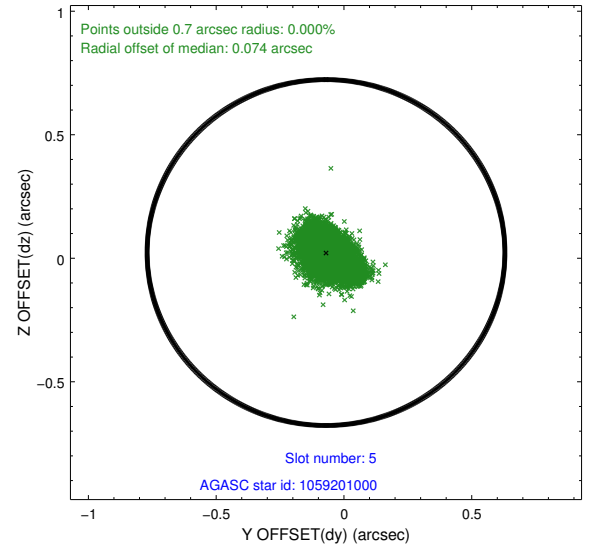
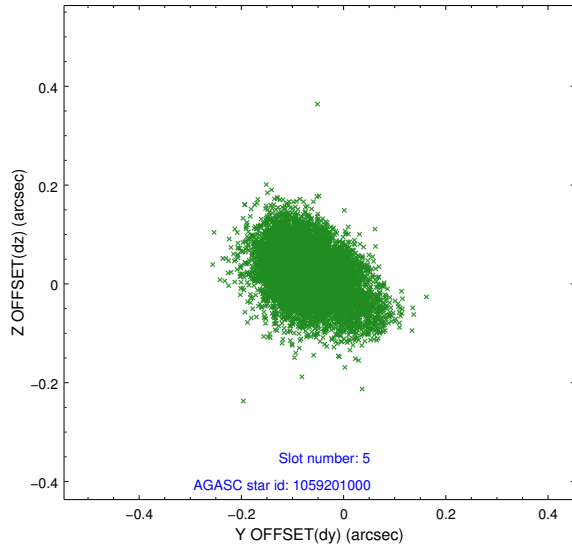
2.4.1 Slot 3



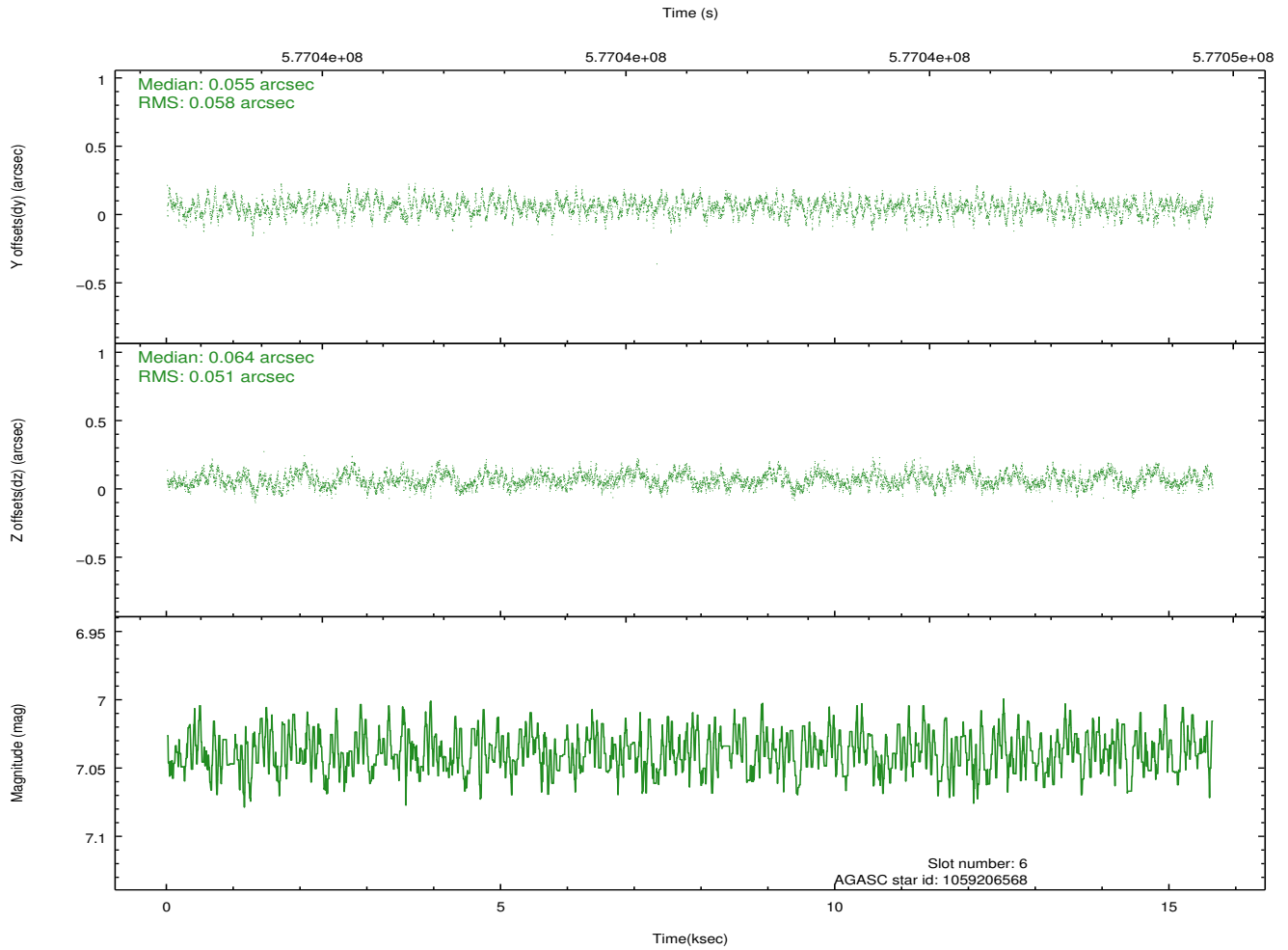
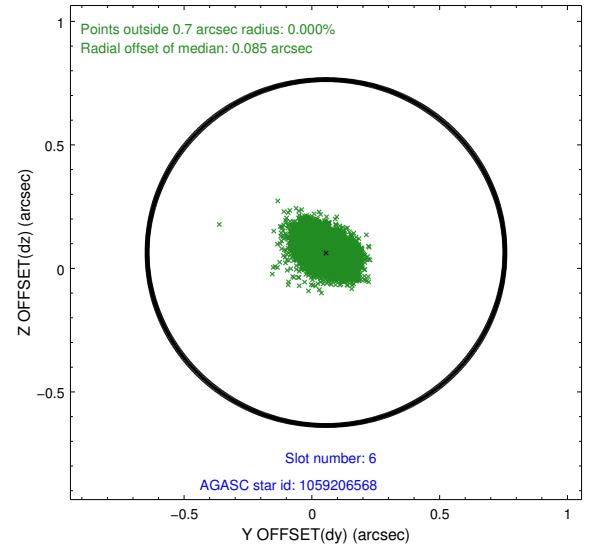
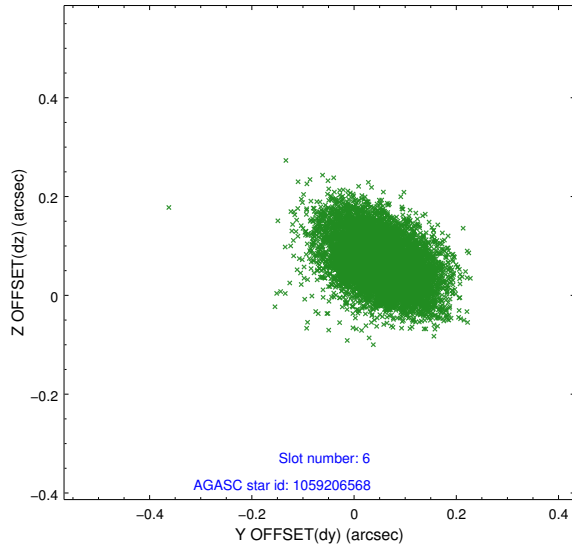
2.4.2 Slot 4



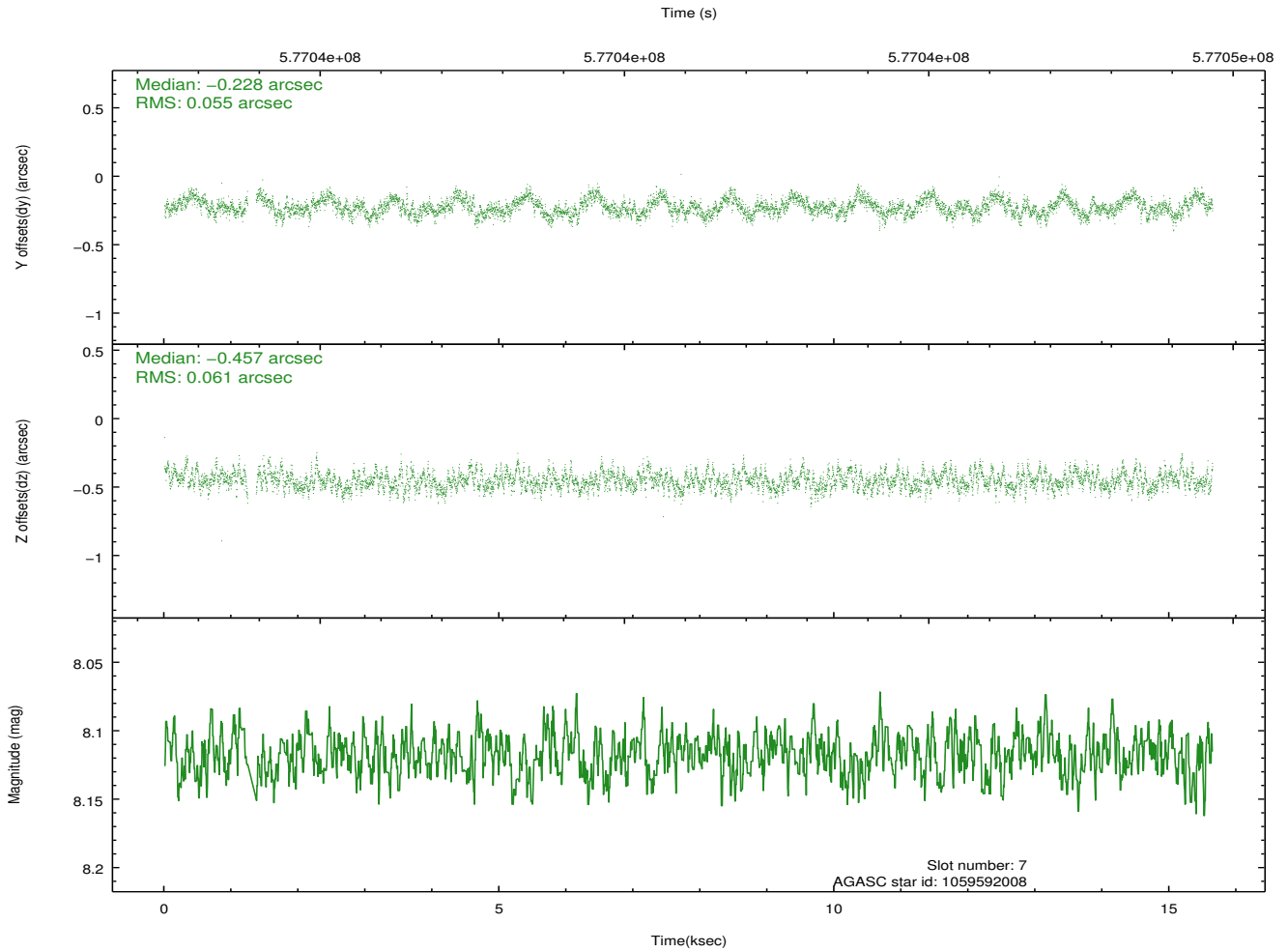
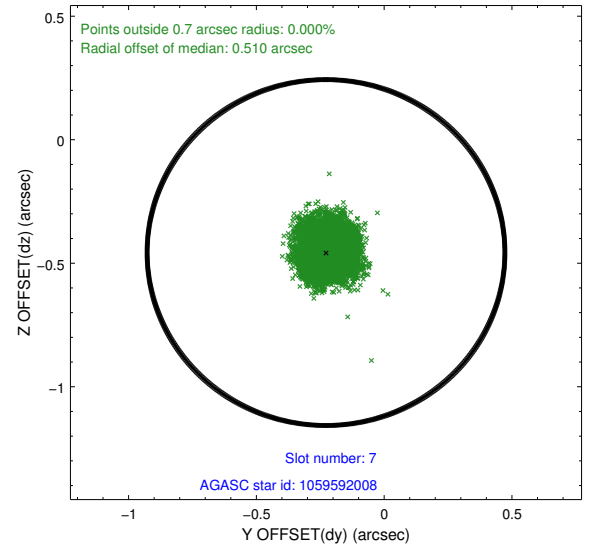
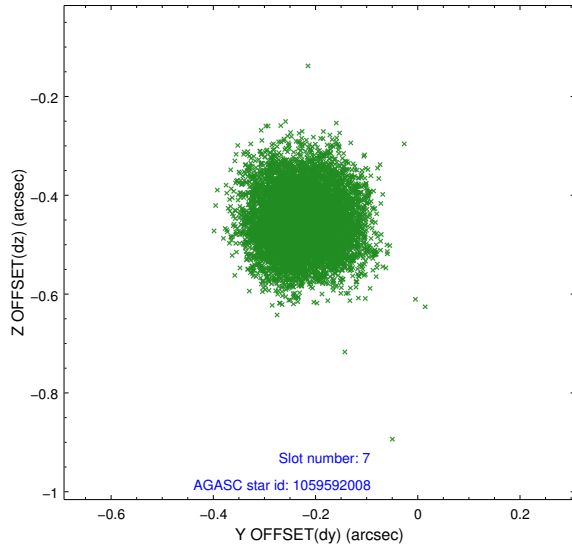
2.4.3 Slot 5



2.4.4 Slot 6

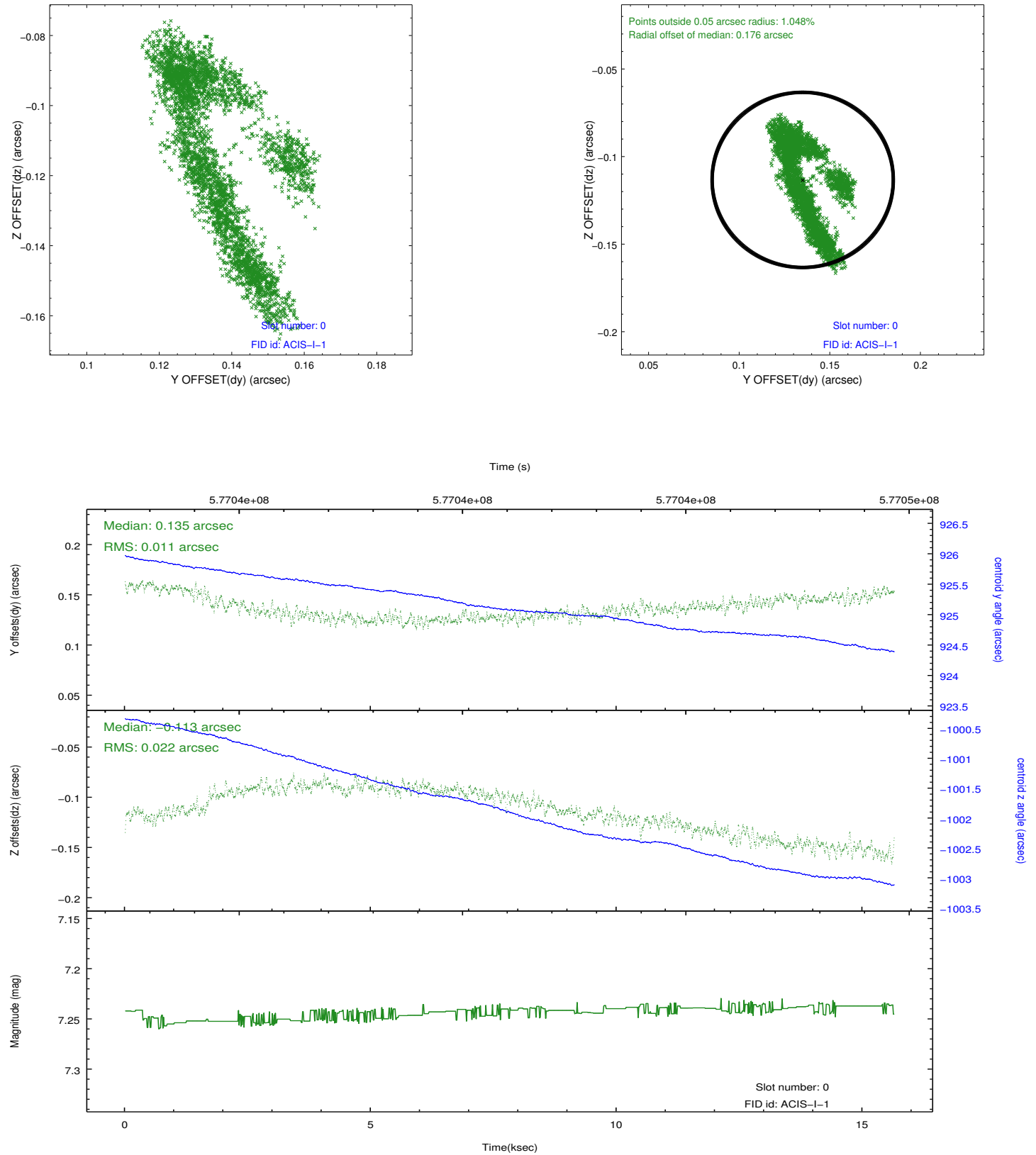


2.4.5 Slot 7

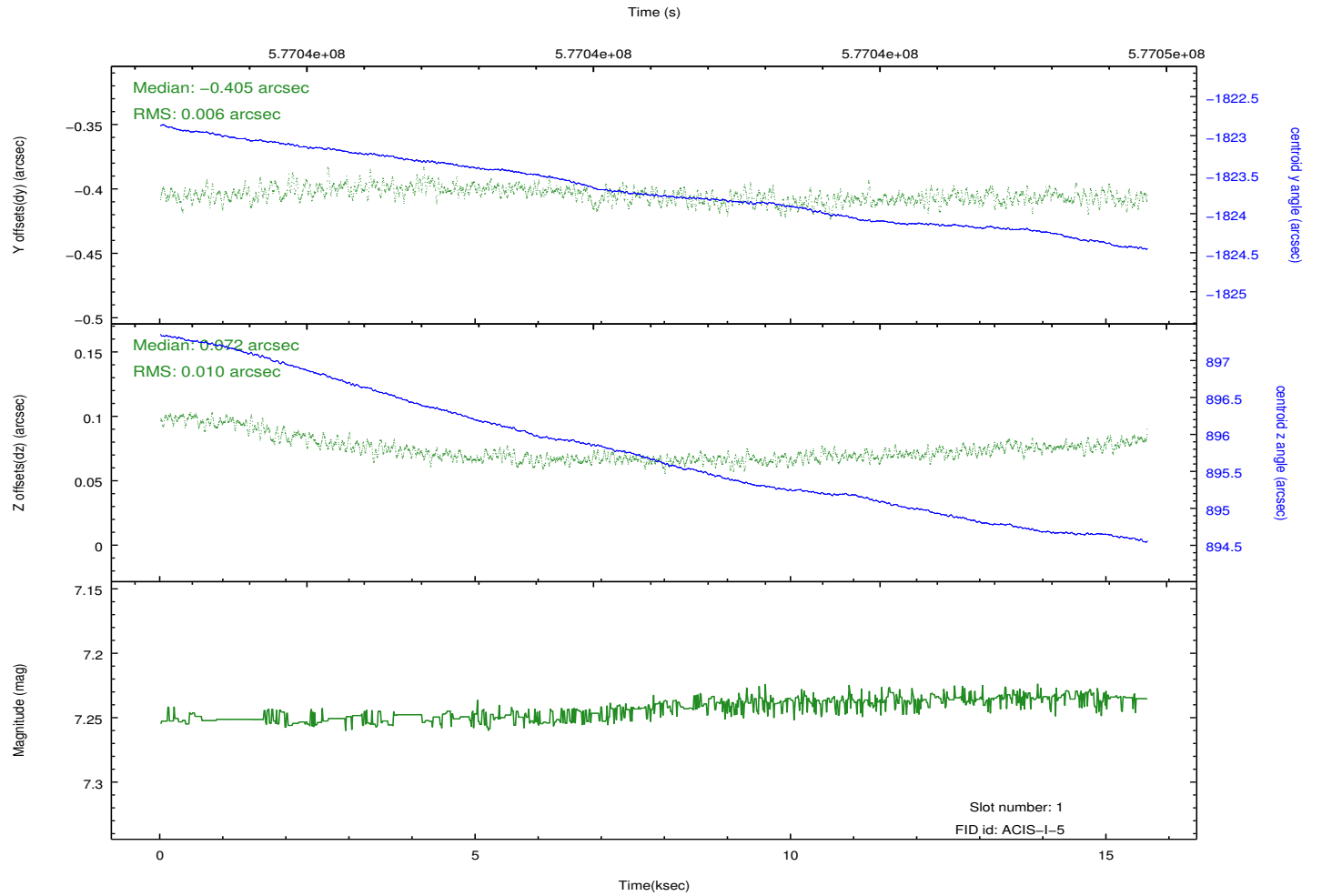
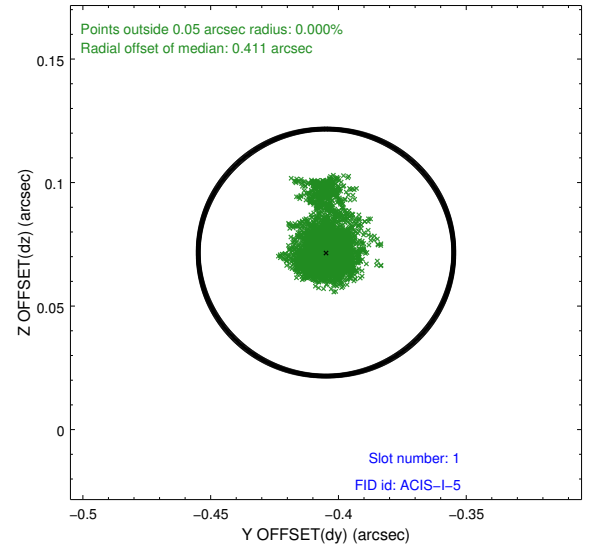
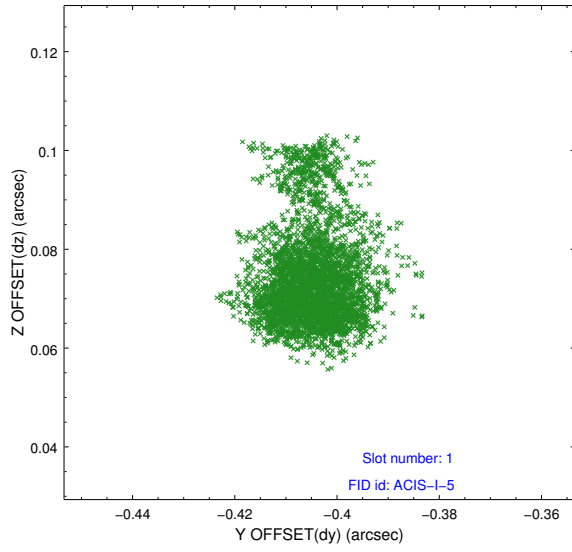


2.5 FID Slots

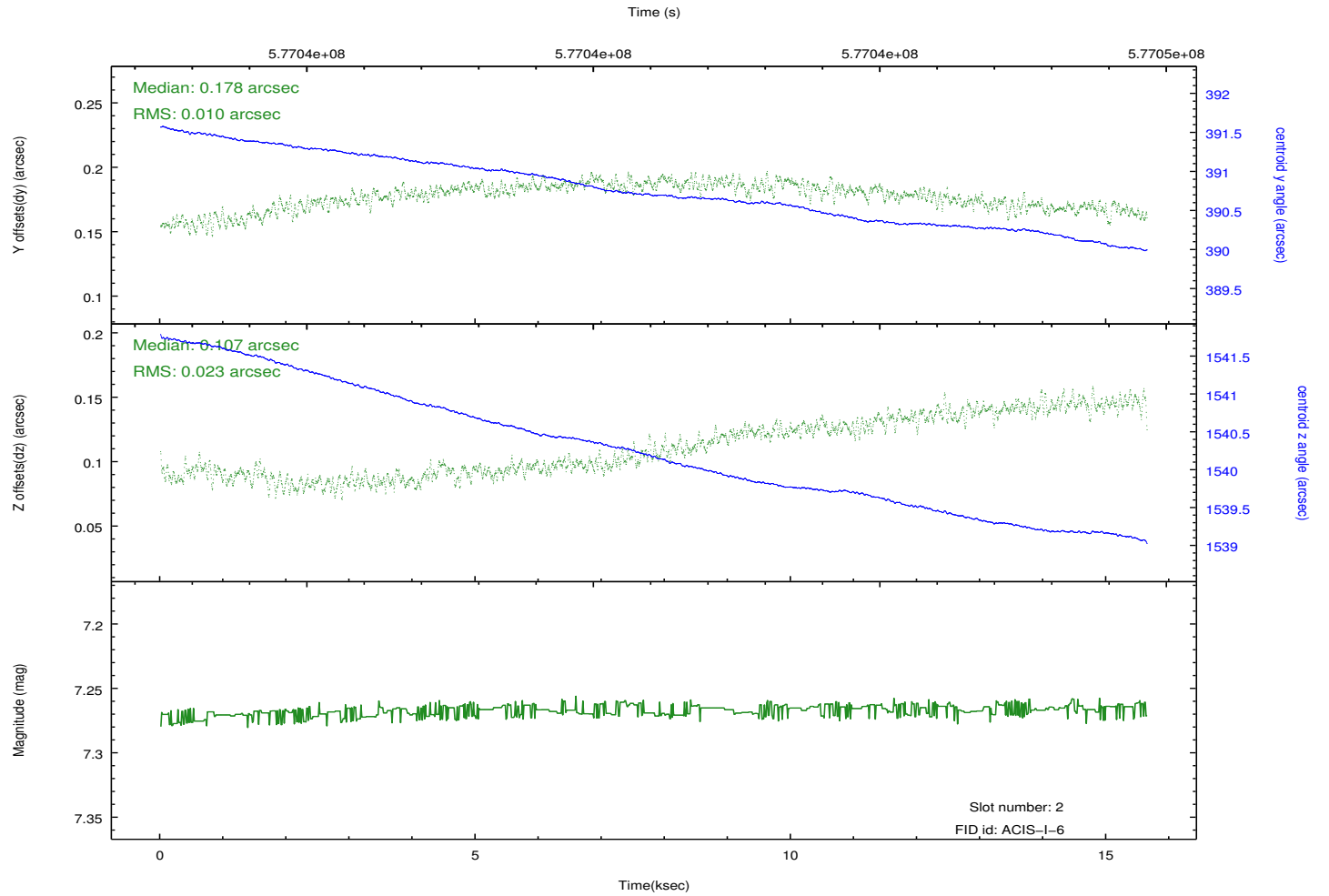
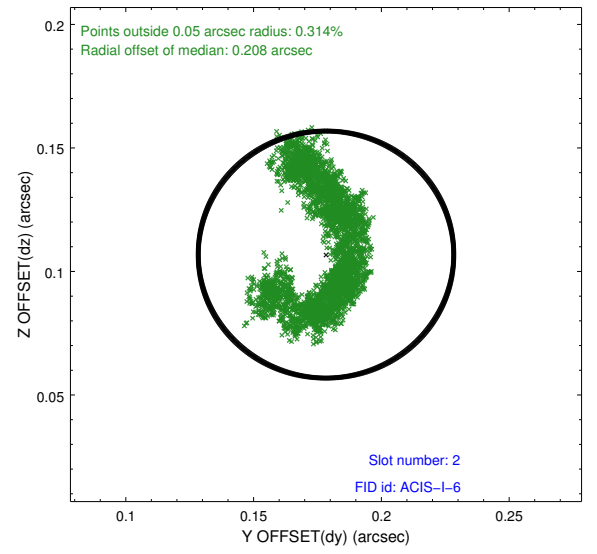
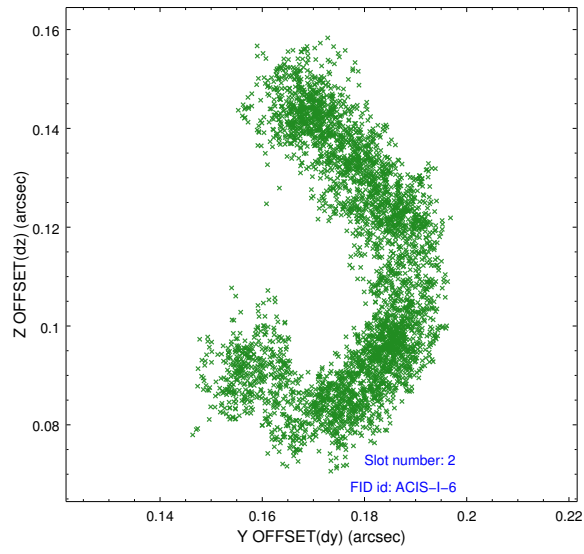
2.5.1 Slot 0



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)	2016.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.574230857372

A.2 Comments