

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 17547 - L2 Version 1
Chandra X-Ray Center

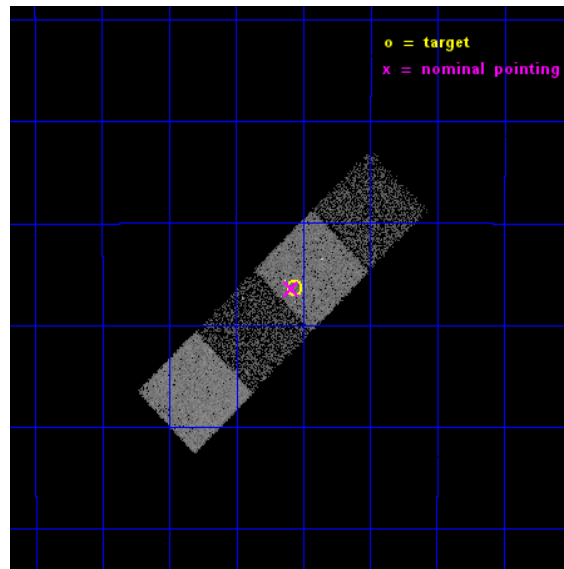
L2 Processing Date : Nov 12 2014

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

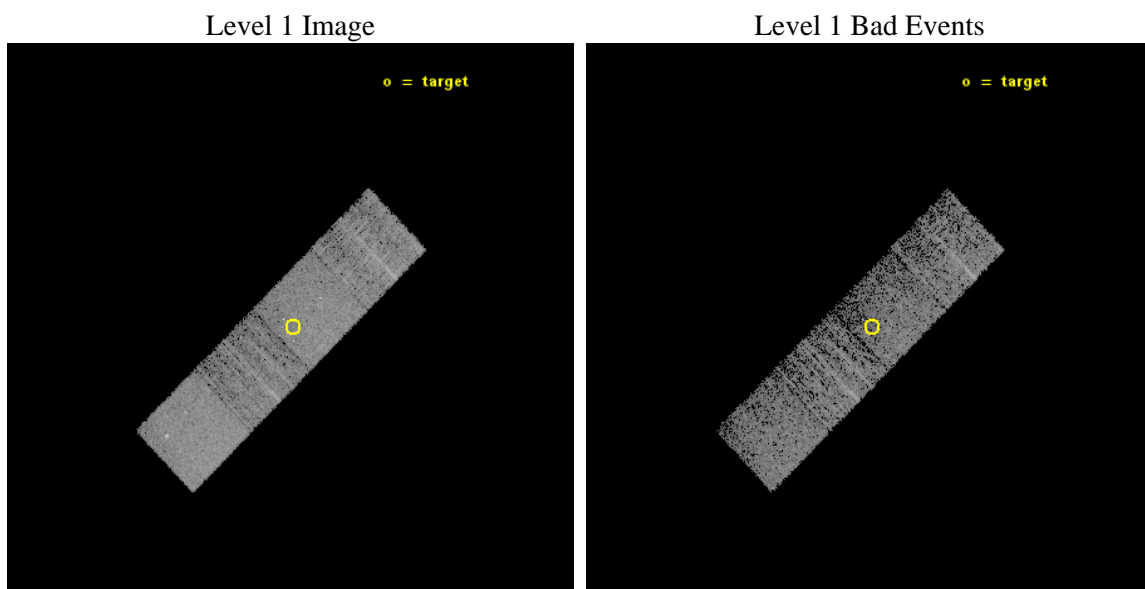
seq_num	703151	Sequence number
obs_id	17547	Observation id
title	An unusual brightening of a non-active galaxy nucleus	Proposal tit
observer	Prof. Hua Feng	Principal investigator
object	NGC 247	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.76625	Observer's specified target RA [deg]
dec_targ	-20.773778	Observer's specified target Dec [deg]
ra_nom	11.77201308236	Nominal RA [deg]
dec_nom	-20.774210846502	Nominal Dec [deg]
roll_nom	315.56844834735	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5071.6000390053	Sum of GTIs [s]
livetime	5005.335850838	Livetime [s]
ontime5	5071.5907531977	Sum of GTIs [s]
ontime6	5071.5497131944	Sum of GTIs [s]
ontime7	5071.6000390053	Sum of GTIs [s]
ontime8	5071.5086731911	Sum of GTIs [s]
l2events	38378	Number of level 2 events



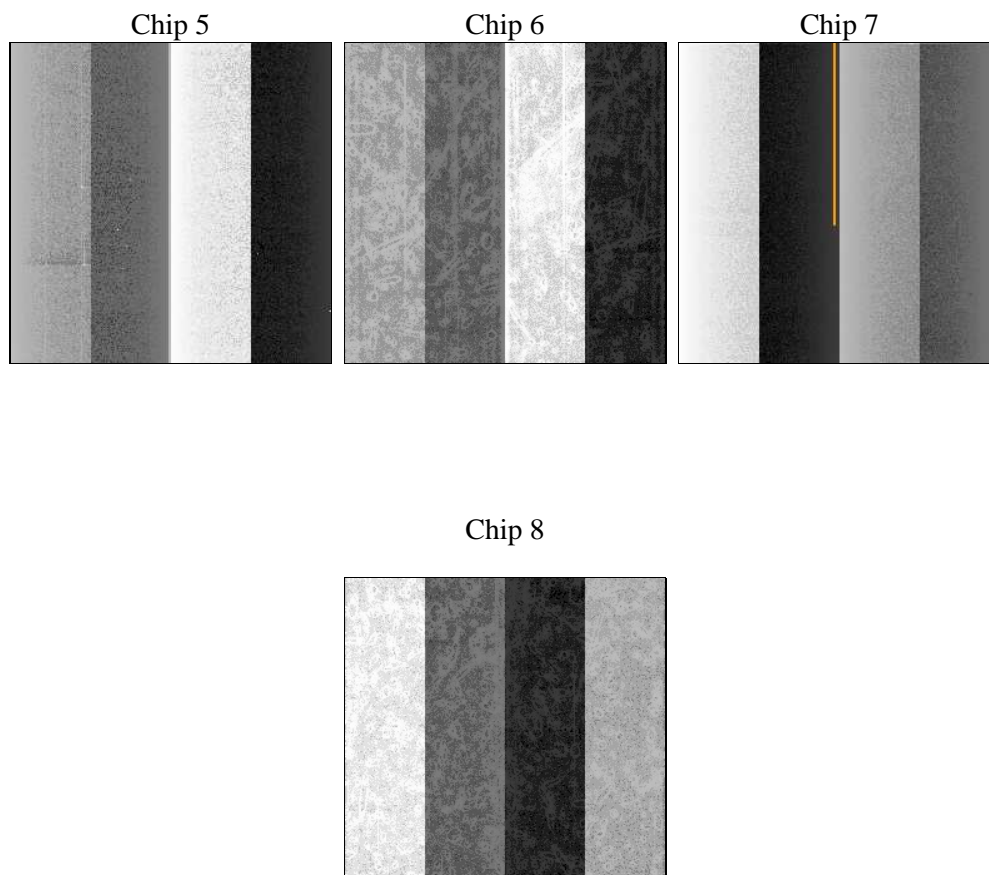
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5071.6000390053	Sum of GTIs [s]
caldbver	4.6.4	 	ontime5	5071.5907531977	Sum of GTIs [s]
date	2014-11-12T16:07:25	Date and time of file creation	ontime6	5071.5497131944	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5071.6000390053	Sum of GTIs [s]
			ontime8	5071.5086731911	Sum of GTIs [s]
			l1events	130474	Number of level 1 events

2.1.4 Events

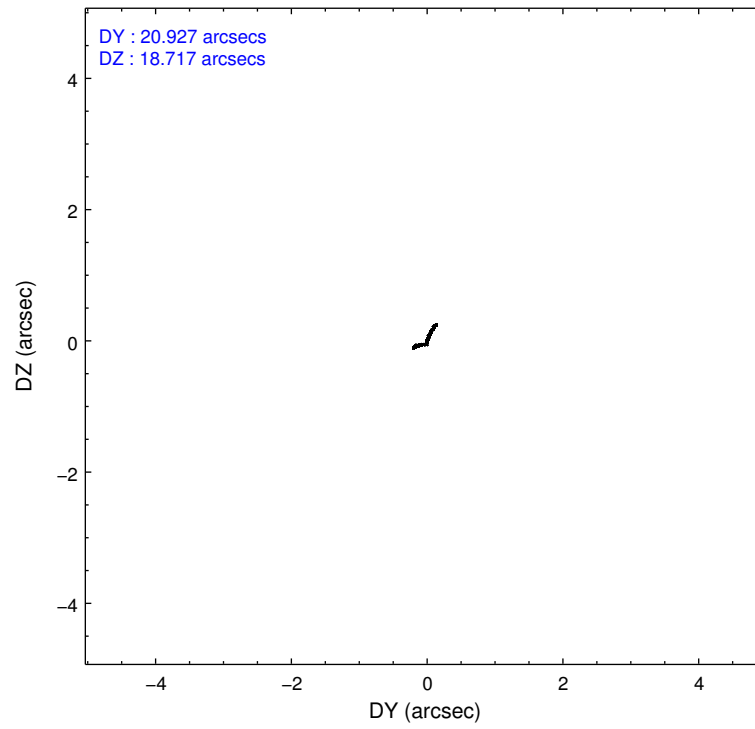
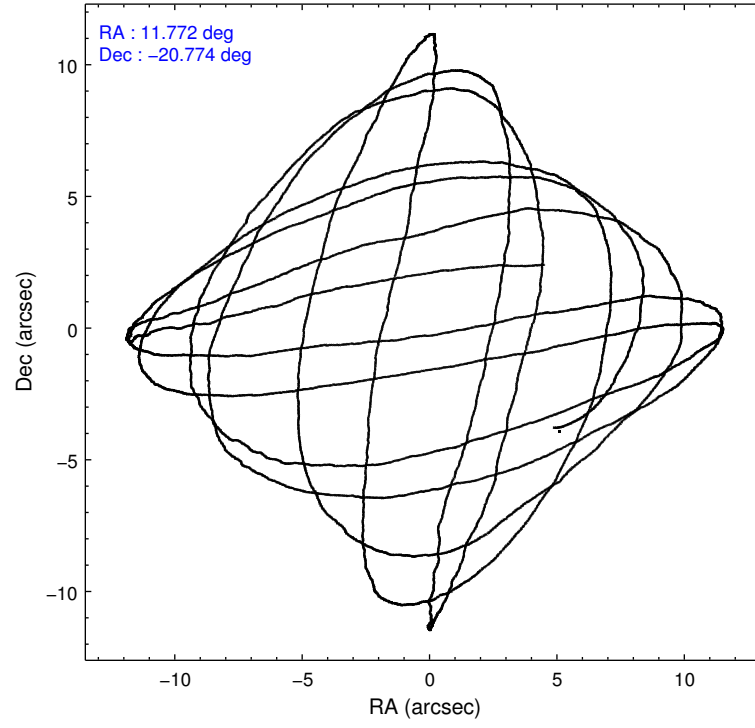
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	39722	25411	34000	31341
rejected events	20779	22285	18983	22833
rejected %	52%	87%	55%	72%

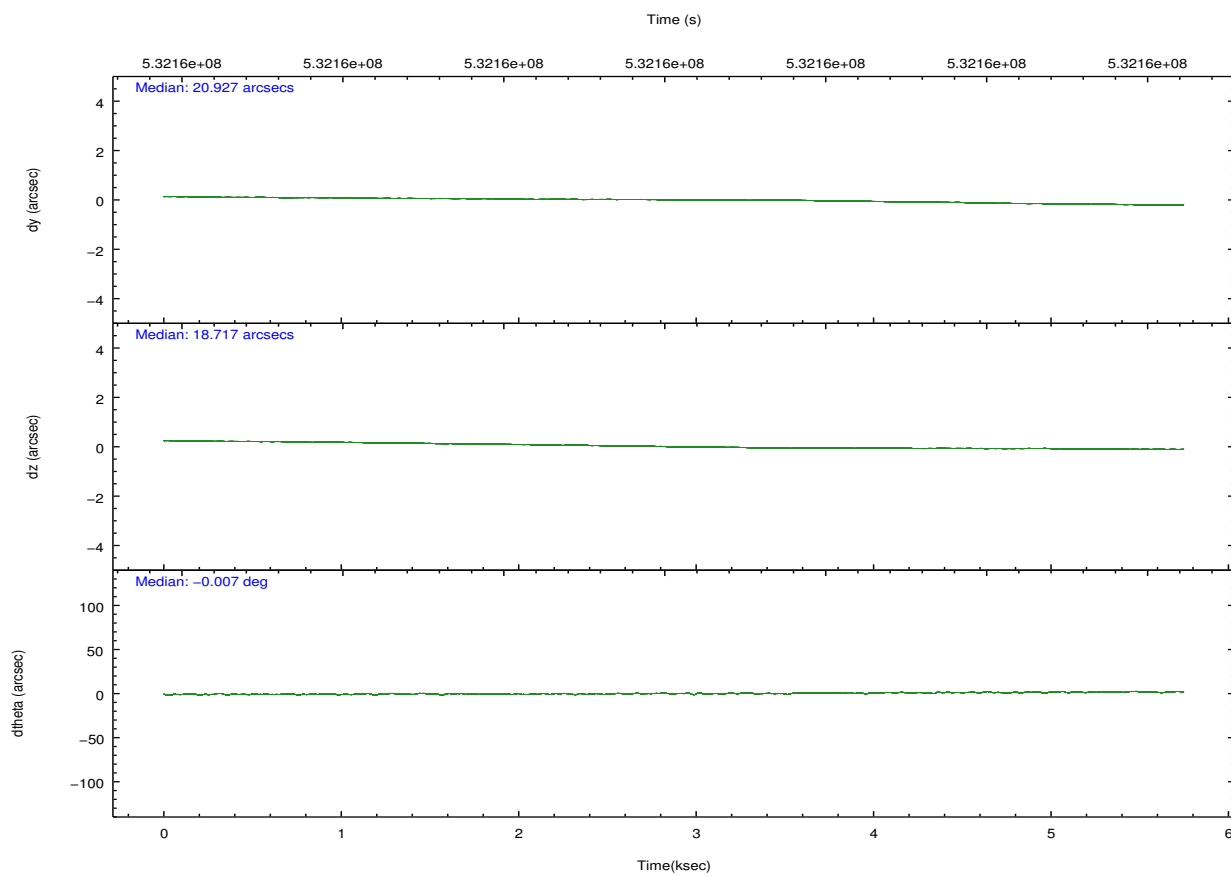
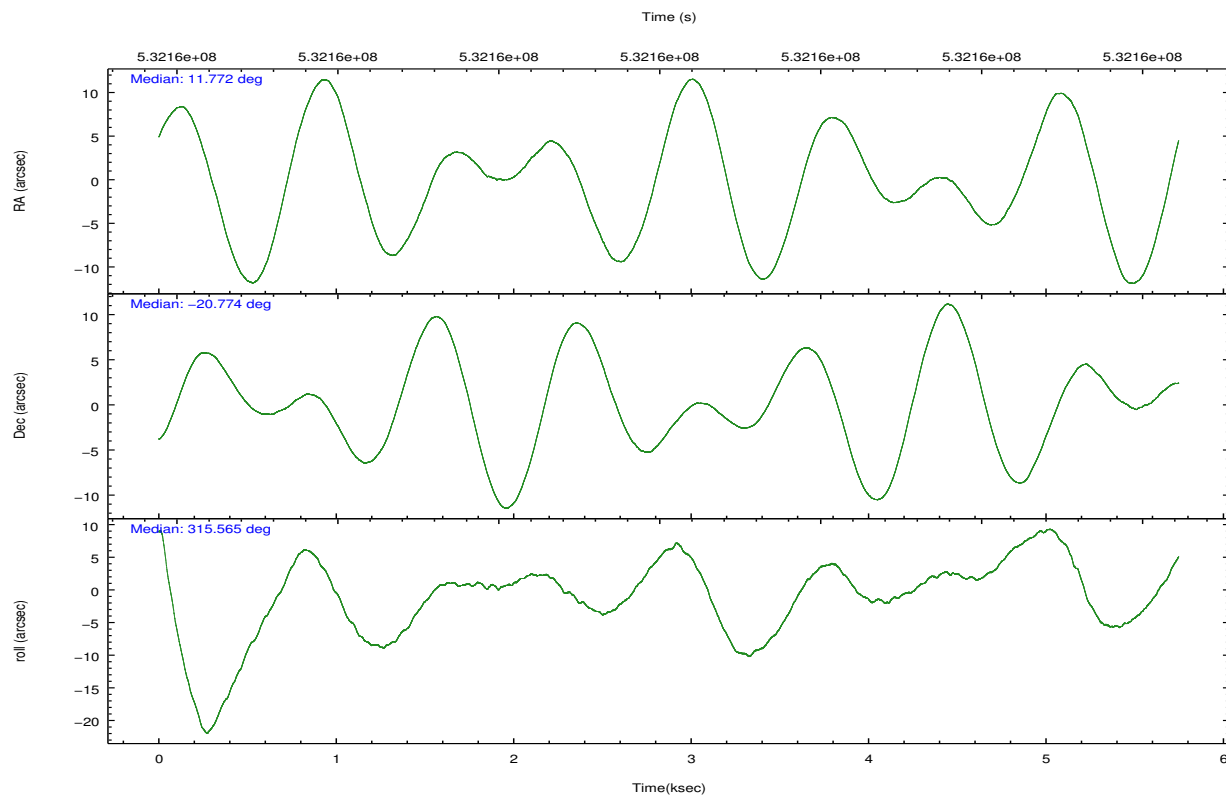
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1447	1105	1499	2505
	3%	4%	4%	7%
grade 1 events	81	11	47	29
	0%	0%	0%	0%
grade 2 events	5790	717	3126	1827
	14%	2%	9%	5%
grade 3 events	598	298	1251	963
	1%	1%	3%	3%
grade 4 events	580	295	1299	923
	1%	1%	3%	2%
grade 5 events	2790	1194	3330	1804
	7%	4%	9%	5%
grade 6 events	10544	714	7848	2291
	26%	2%	23%	7%
grade 7 events	17892	21077	15600	20999
	45%	82%	45%	67%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	11.743511	11.77201308235983	Subarray requested	NONE	NONE
[deg] Pointing Dec	-20.767803	-20.77421084650245	Alternating exposures requested	N	N
[deg] Pointing Roll	315.401694	315.5684483473486	[s] Primary exposure time	0.000000	3.1
[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)	532158924.184000	532157688.1874			
Observation start date	2014-11-12T05:54:17	2014-11-12T05:34:48			
[s] Observation end time (MET)	532163924.184000	532164613.60029			
Observation end date	2014-11-12T07:17:37	2014-11-12T07:30:13			
Read mode	TIMED	TIMED			

2.3 Aspect



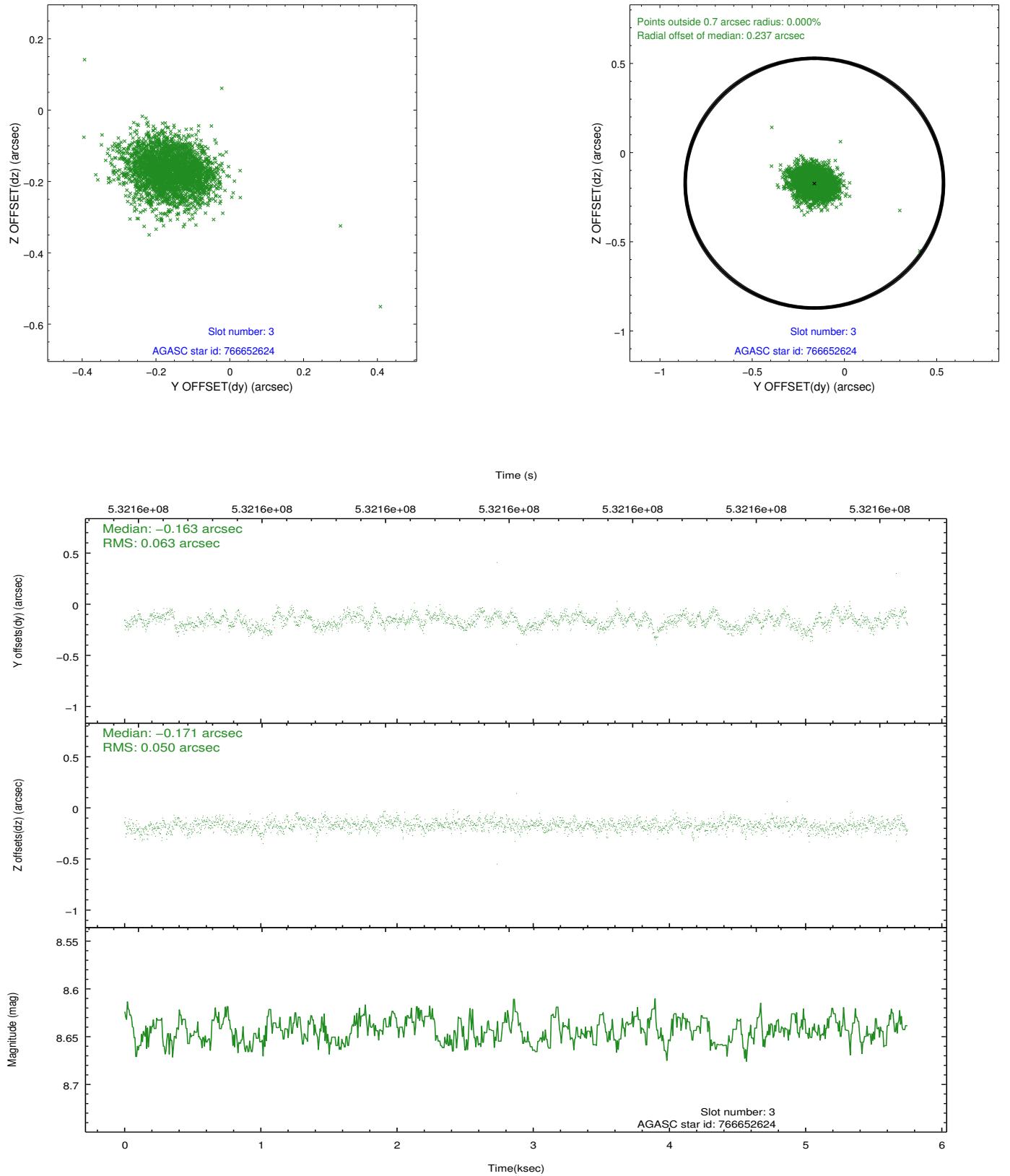


Slot Statistics

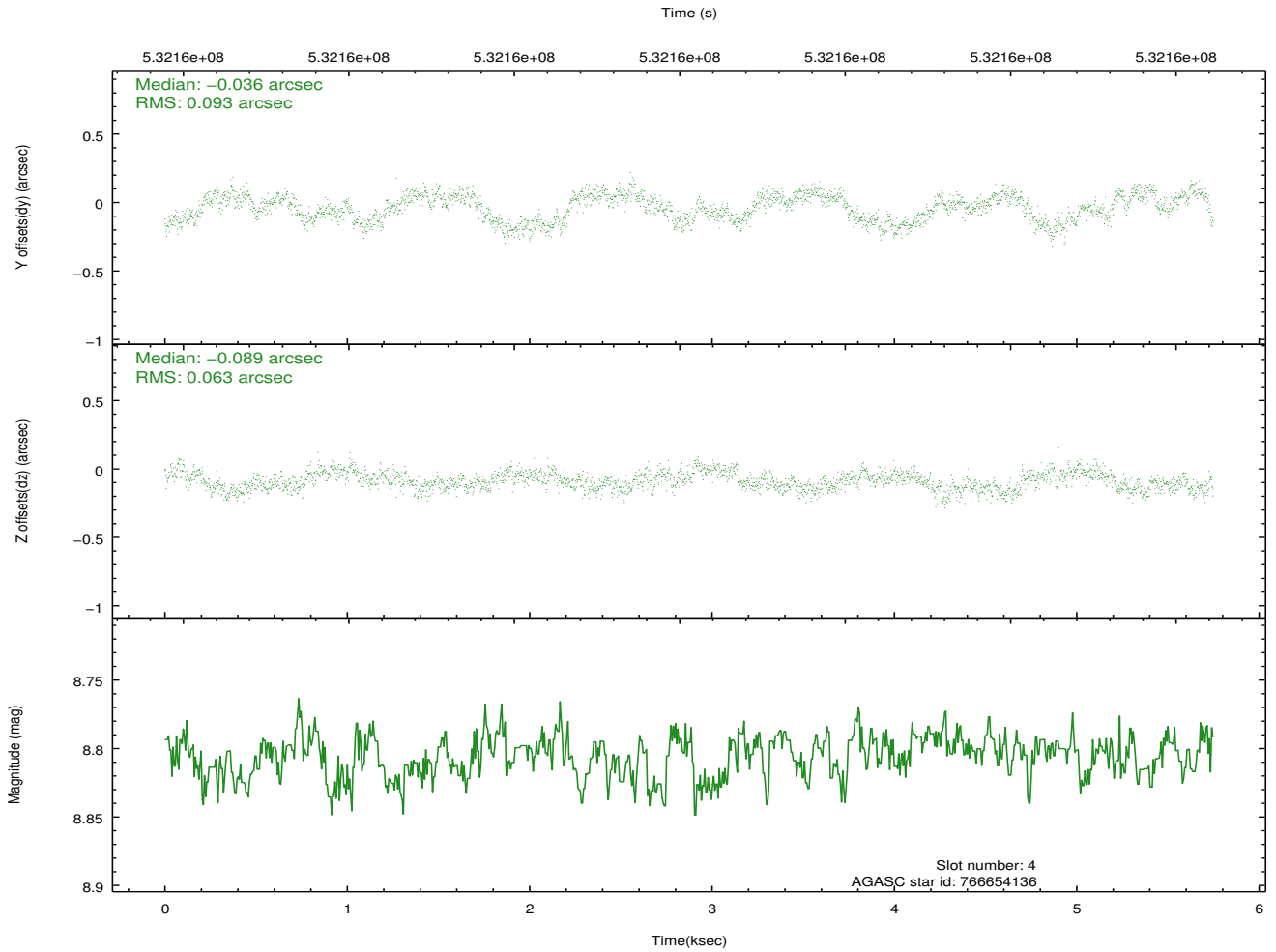
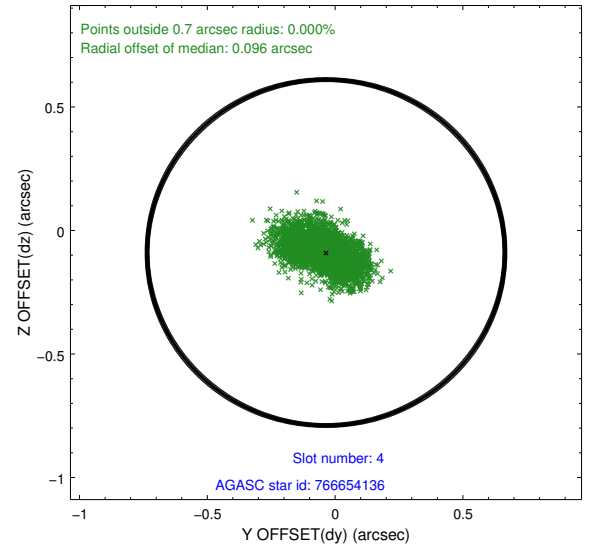
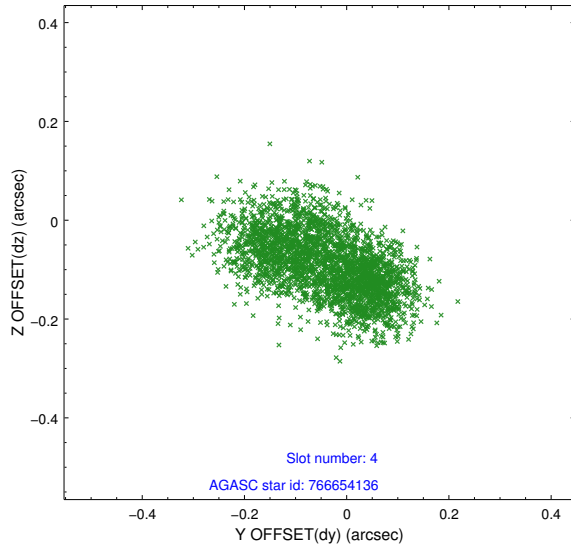
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	1402	0.066	0.006	0.006	0.010	0.000000	0.000000	922.10	-1735.84
1	FID		ACIS-S-5	7.13	1402	-0.146	0.048	0.006	0.011	0.000000	0.000000	-1826.58	160.63
2	FID		ACIS-S-6	7.24	1402	0.059	-0.042	0.007	0.011	0.000000	0.000000	386.46	805.72
3	GUIDE	used	766652624	8.64	2805	-0.163	-0.171	0.084	0.136	11.831608	-19.964410	-1818.02	2268.91
4	GUIDE	used	766654136	8.80	2802	-0.036	-0.089	0.122	0.186	11.585317	-20.096088	-2078.67	1346.70
5	GUIDE	used	766654496	9.35	2803	0.189	0.206	0.220	0.333	11.545095	-20.663870	-739.04	-204.02
6	GUIDE	used	766786680	6.98	2805	-0.108	-0.157	0.096	0.148	12.275890	-21.151146	2244.21	269.78
7	GUIDE	used	766646608	9.12	2800	0.083	0.216	0.109	0.171	11.216160	-20.336771	-2353.08	-147.06

2.4 Star Slots

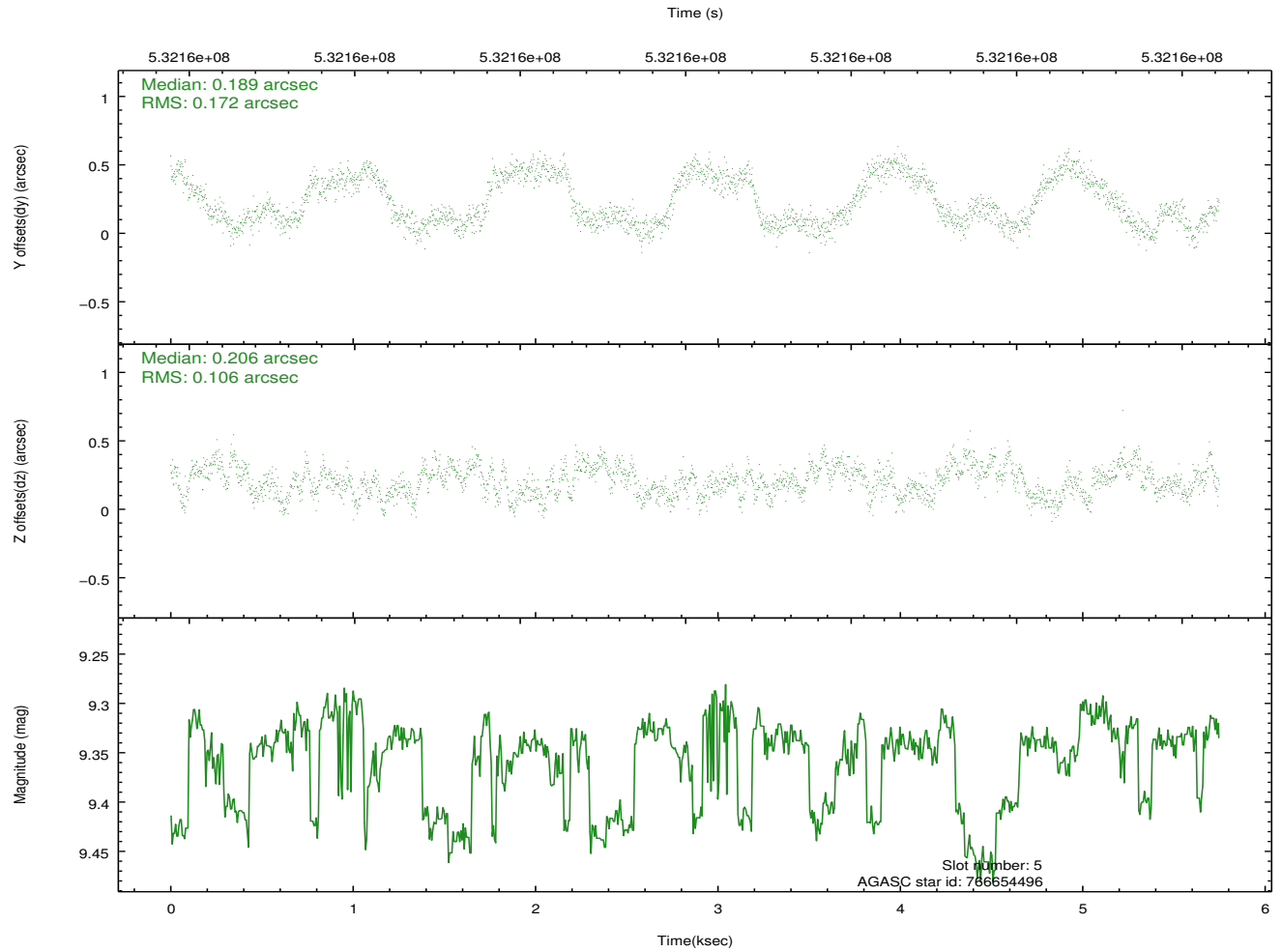
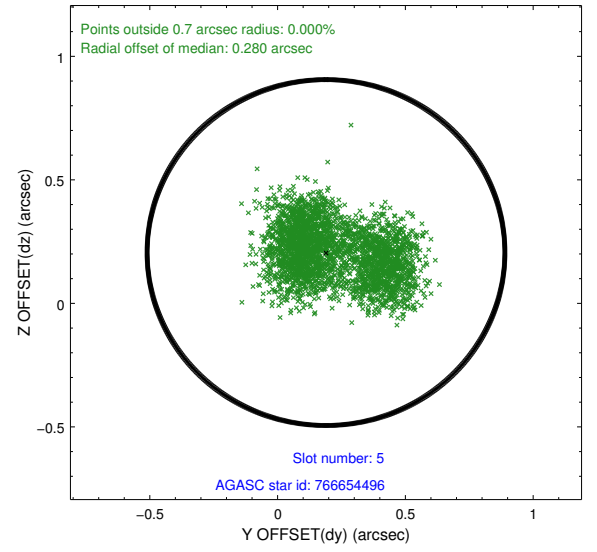
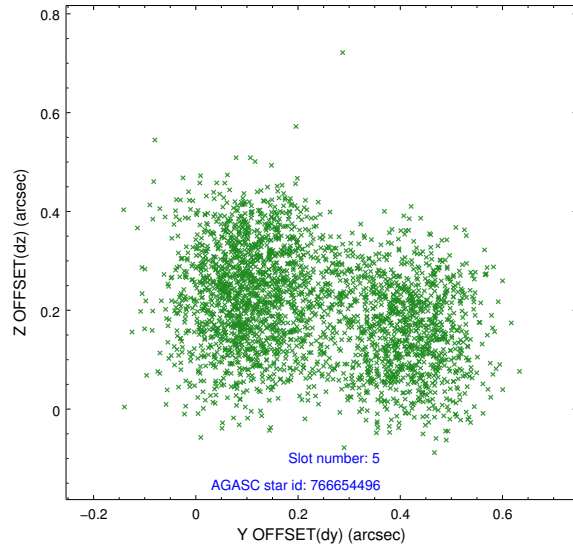
2.4.1 Slot 3



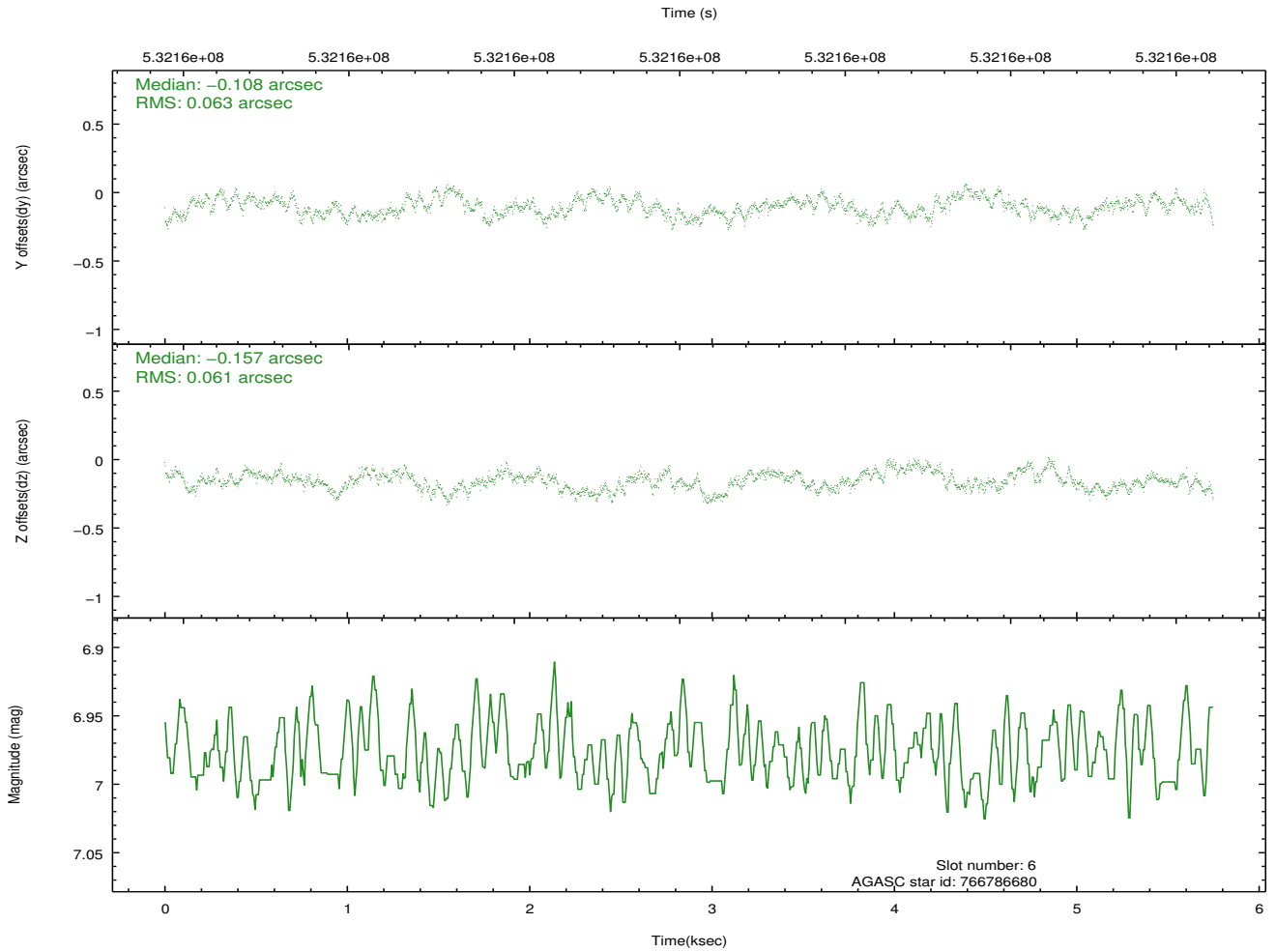
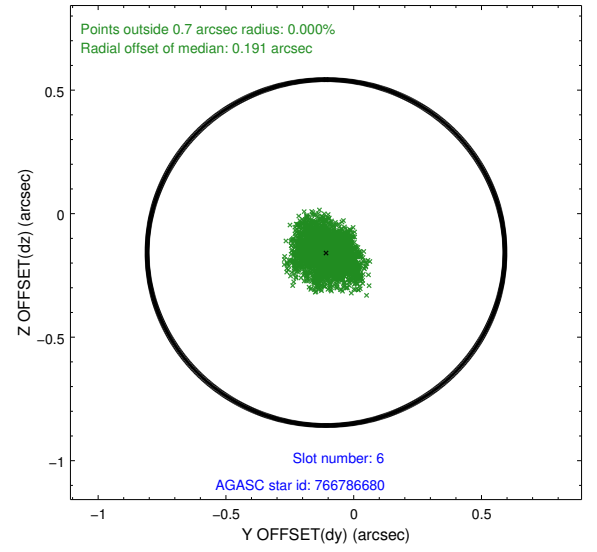
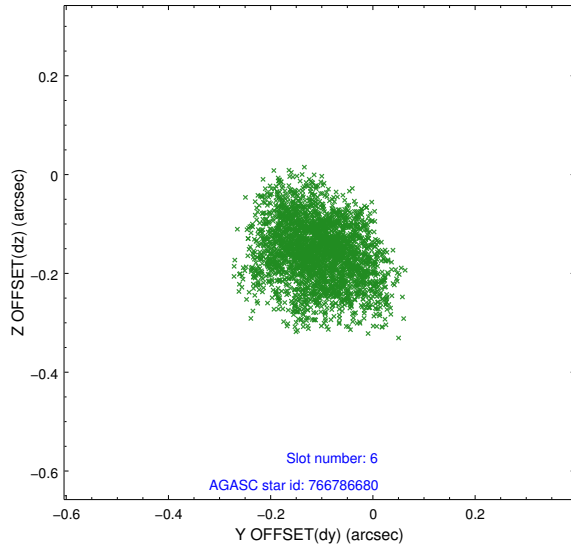
2.4.2 Slot 4



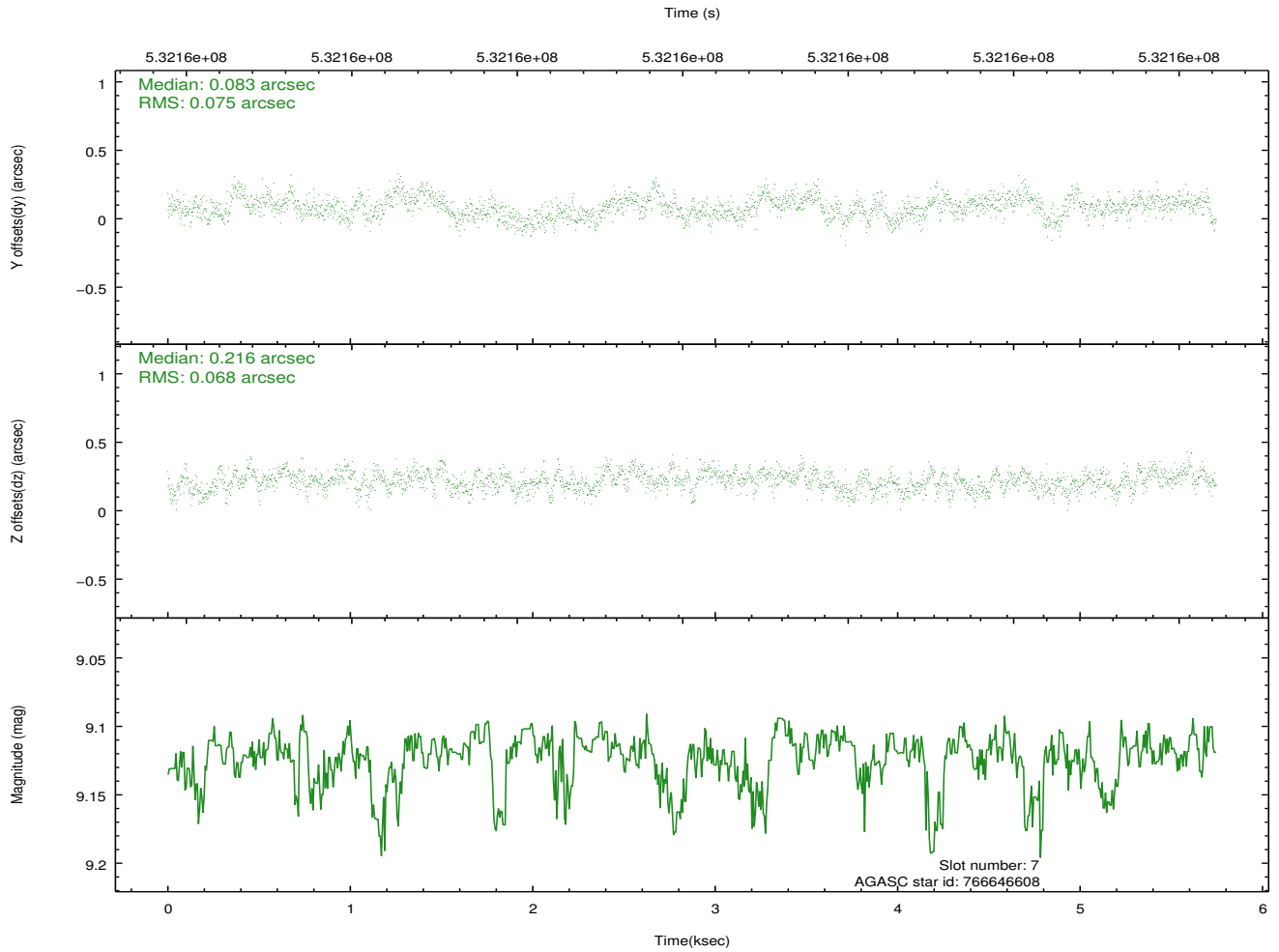
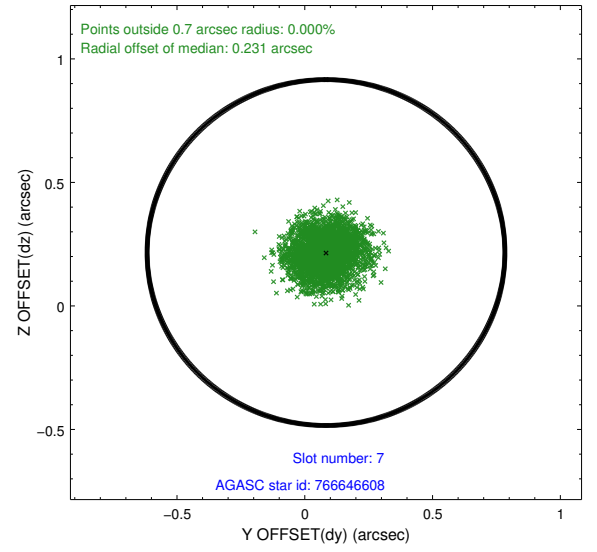
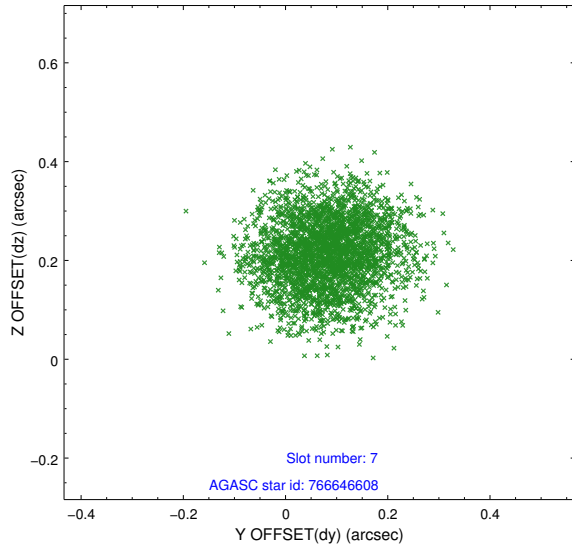
2.4.3 Slot 5



2.4.4 Slot 6

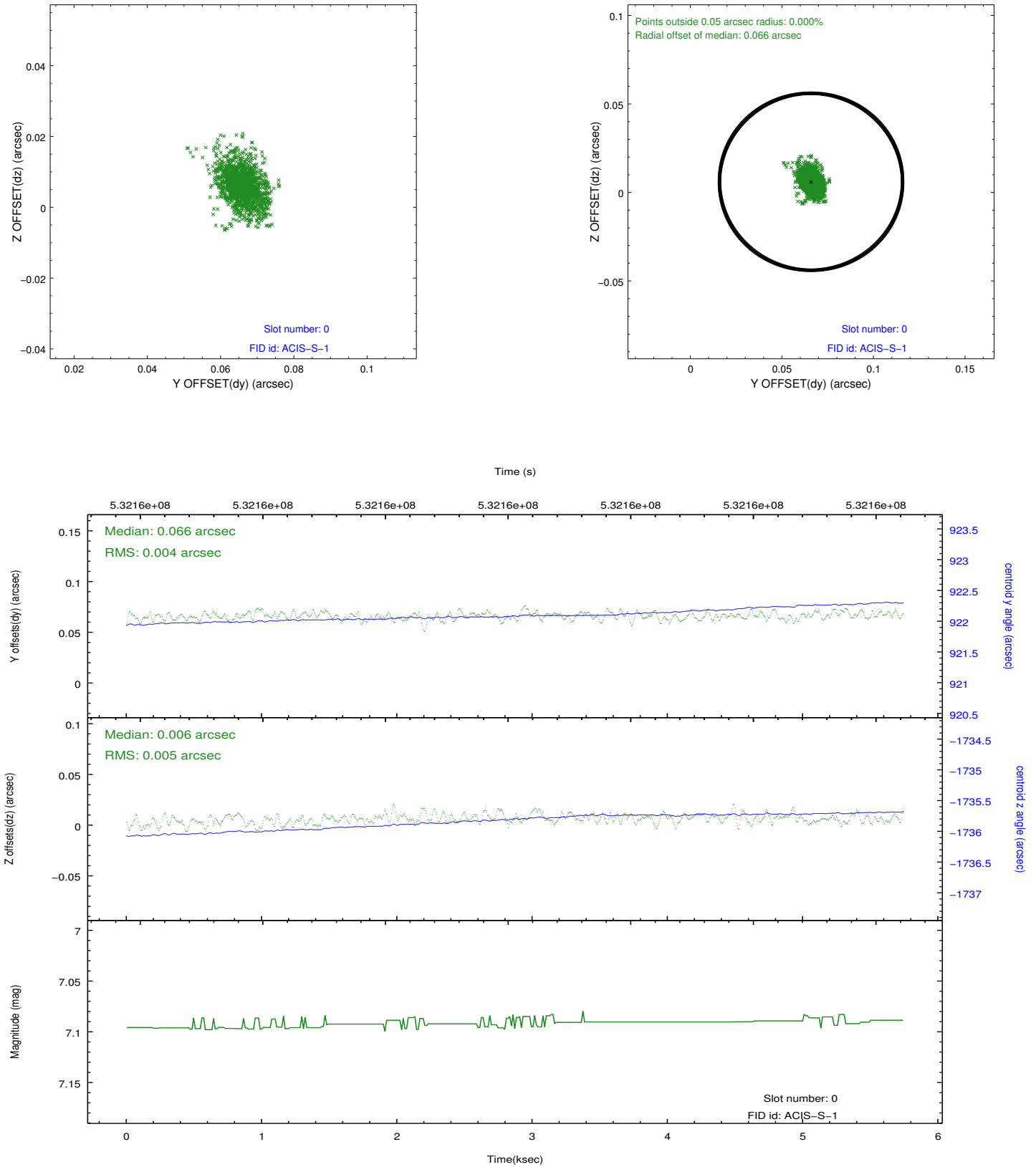


2.4.5 Slot 7

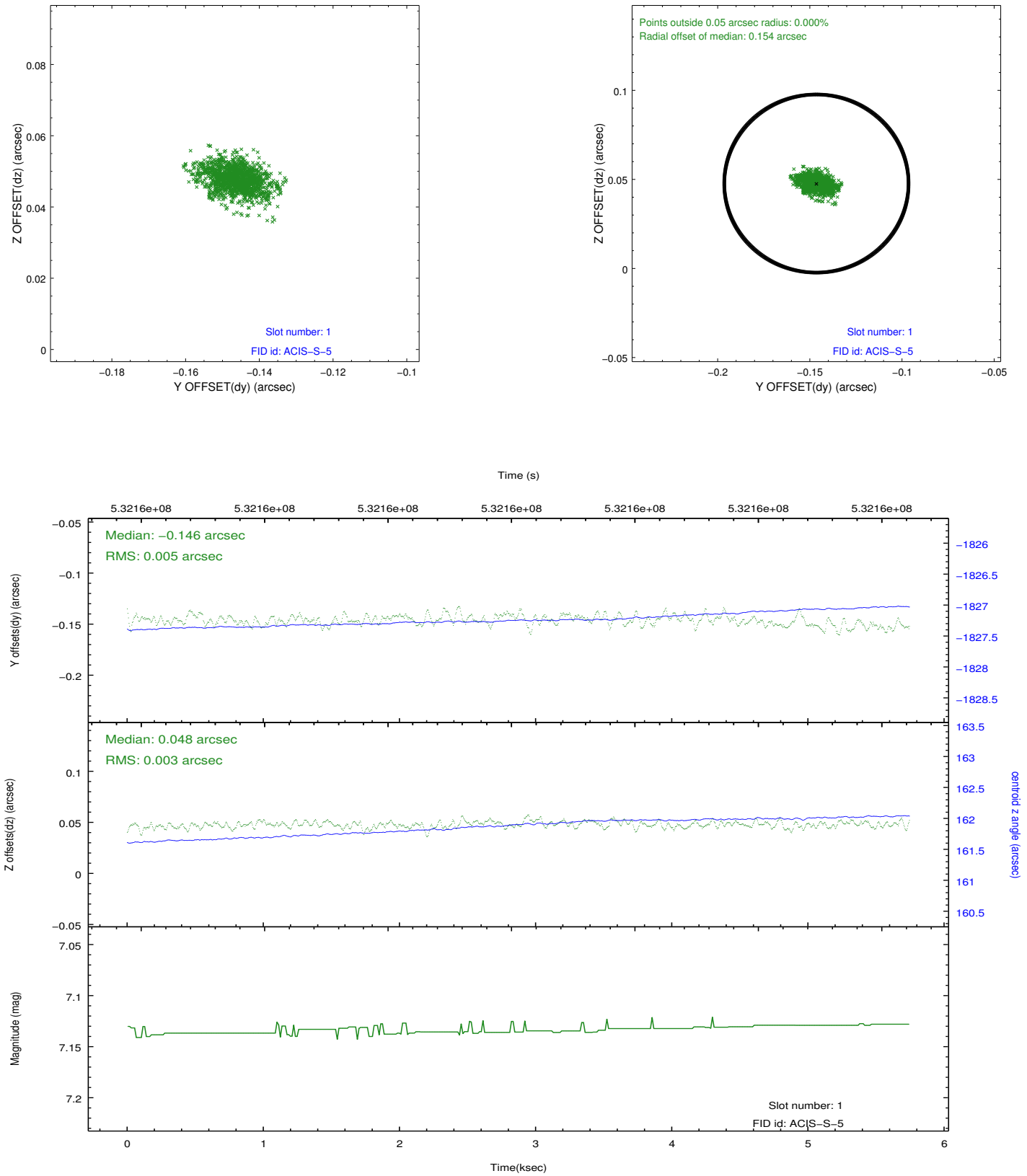


2.5 FID Slots

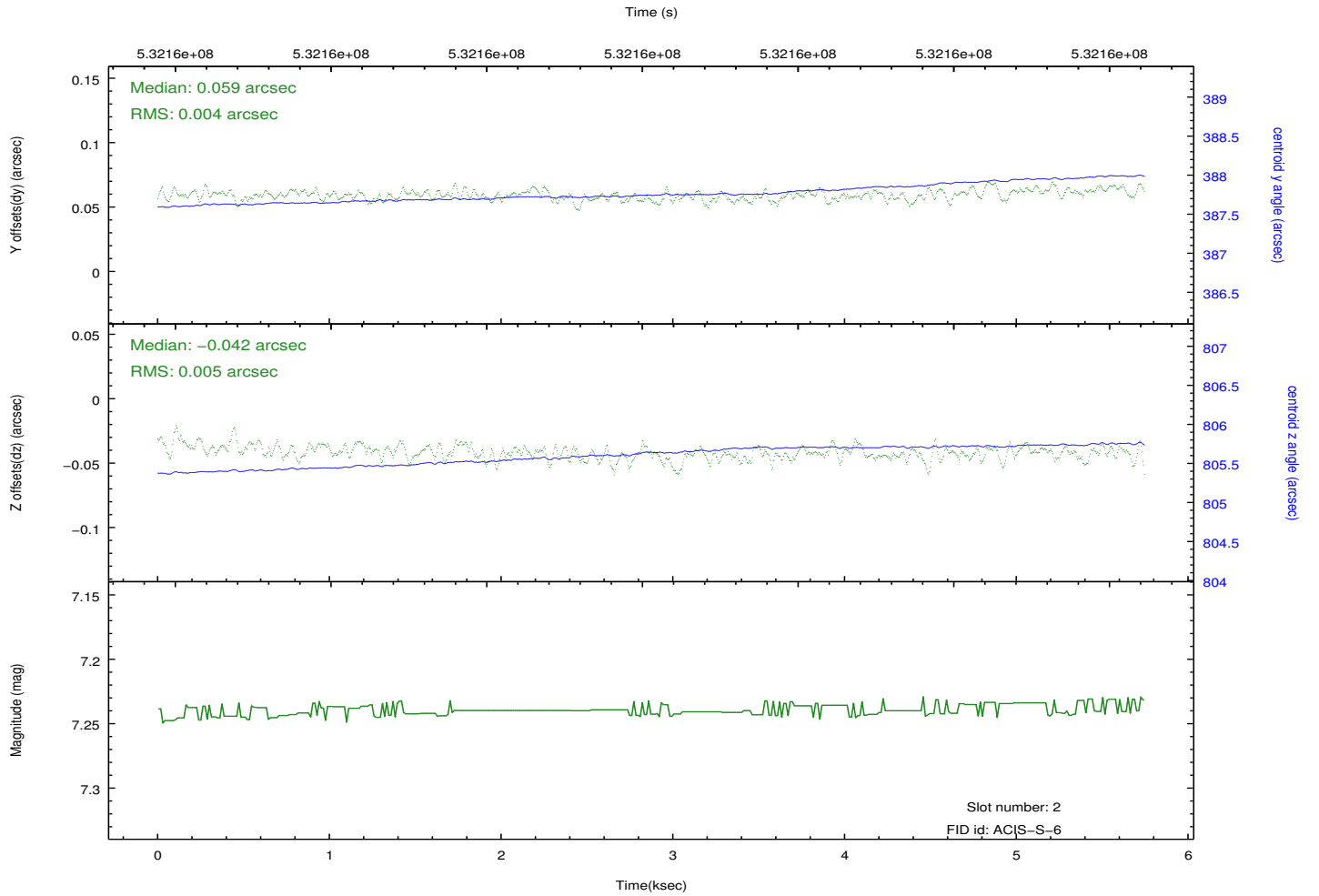
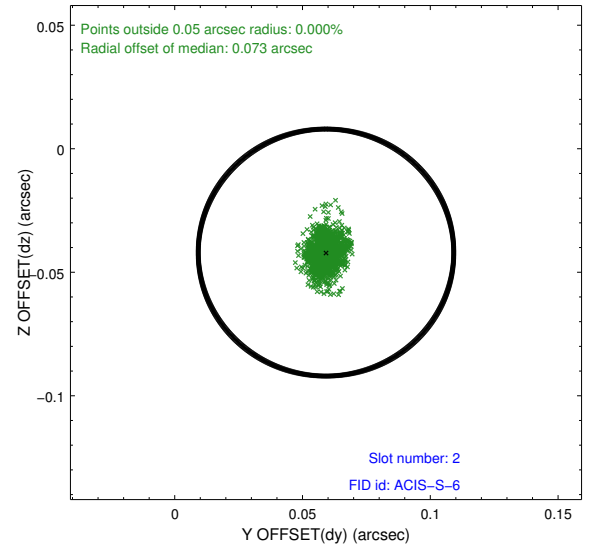
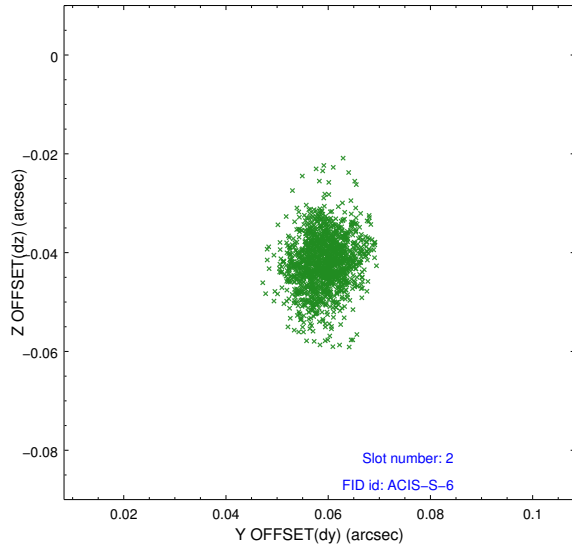
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.11.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0716000390053

A.2 Comments