

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18256 - L2 Version 1
Chandra X-Ray Center

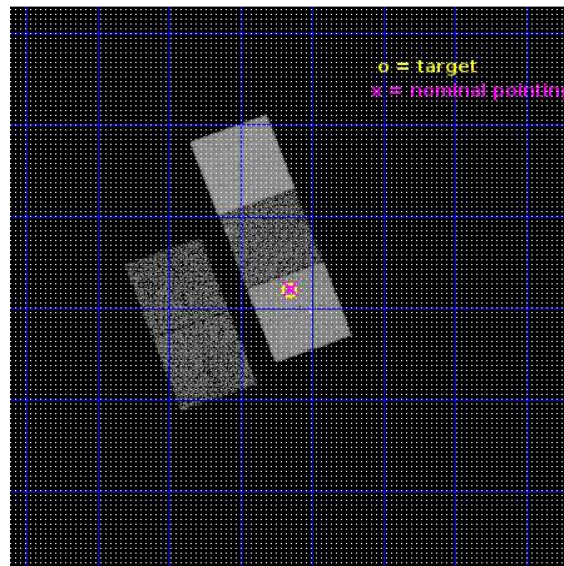
L2 Processing Date : Oct 6 2016

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1 Front

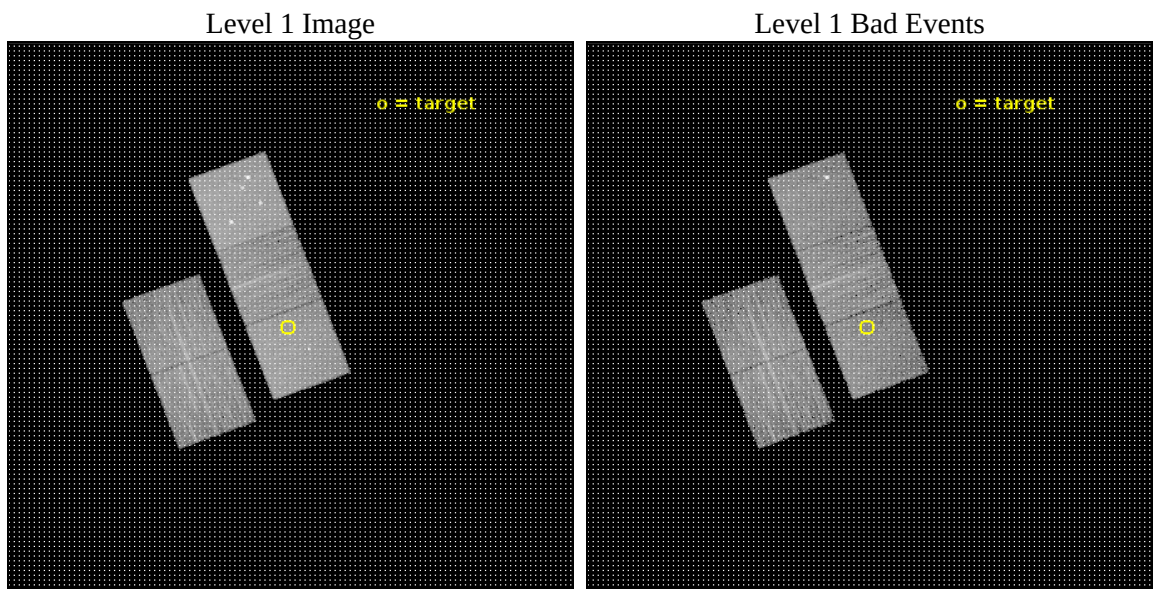
seq_num	801580	Sequence number
obs_id	18256	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	XLSS J022709.2-041800	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.787917	Observer's specified target RA [deg]
dec_targ	-4.3	Observer's specified target Dec [deg]
ra_nom	36.785761299374	Nominal RA [deg]
dec_nom	-4.297532423483	Nominal Dec [deg]
roll_nom	69.563636534778	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11042.200085044	Sum of GTIs [s]
livetime	10897.925611783	Livetime [s]
ontime2	11042.200085044	Sum of GTIs [s]
ontime3	11042.200085044	Sum of GTIs [s]
ontime5	11042.200085044	Sum of GTIs [s]
ontime6	11042.200085044	Sum of GTIs [s]
ontime7	11042.200085044	Sum of GTIs [s]
l2events	115341	Number of level 2 events



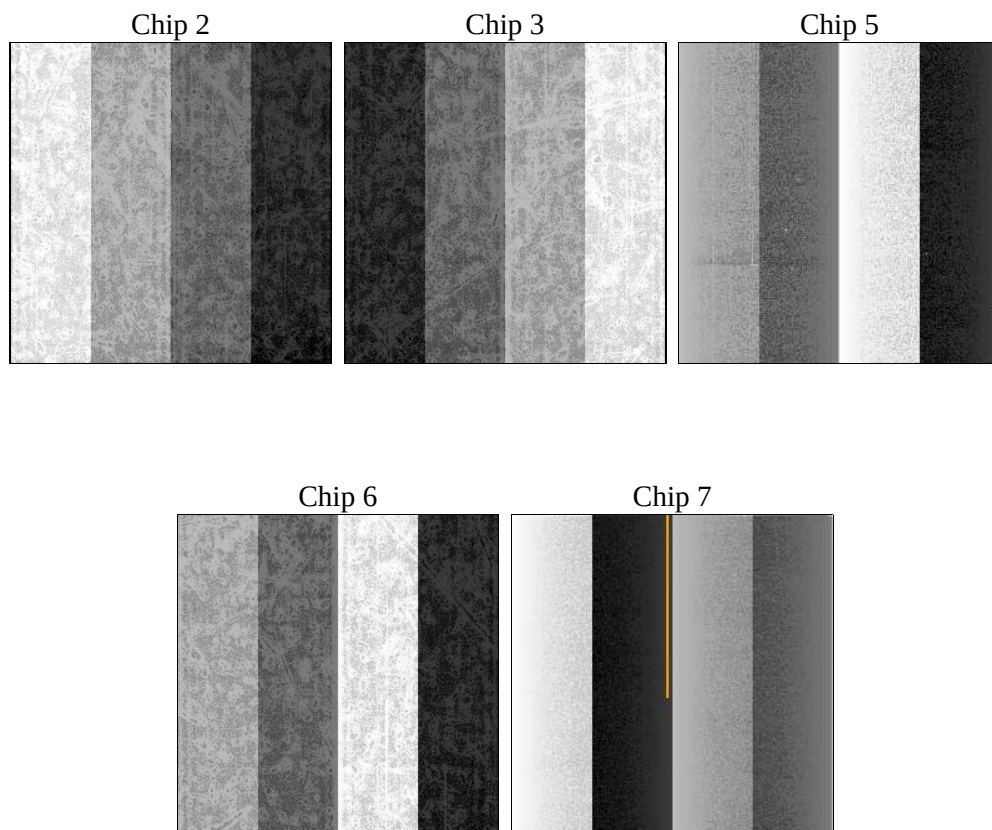
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	11042.200085044	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	11042.200085044	Sum of GTIs [s]
date	2016-10-06T19:08:08	Date and time of file creation	ontime3	11042.200085044	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	11042.200085044	Sum of GTIs [s]
			ontime6	11042.200085044	Sum of GTIs [s]
			ontime7	11042.200085044	Sum of GTIs [s]
			l1events	443952	Number of level 1 events

2.1.4 Events

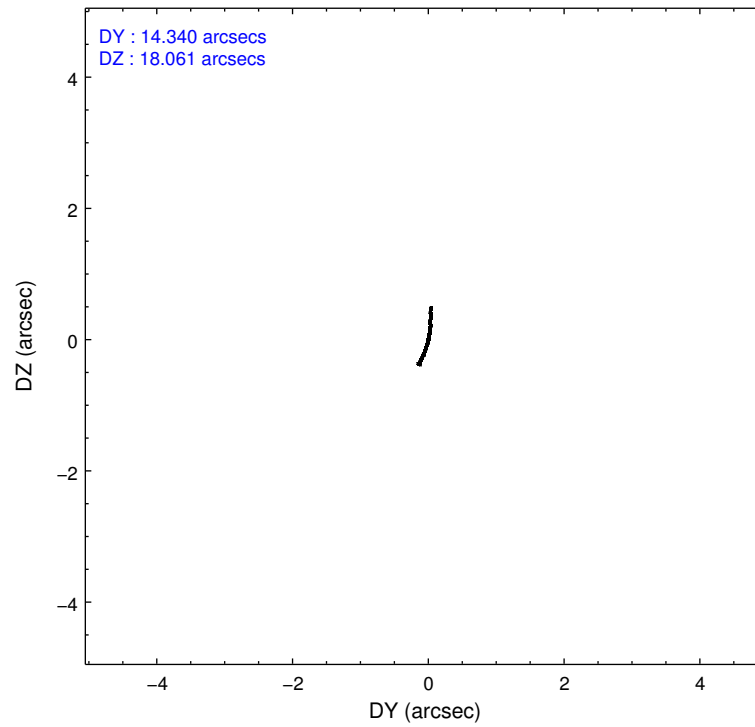
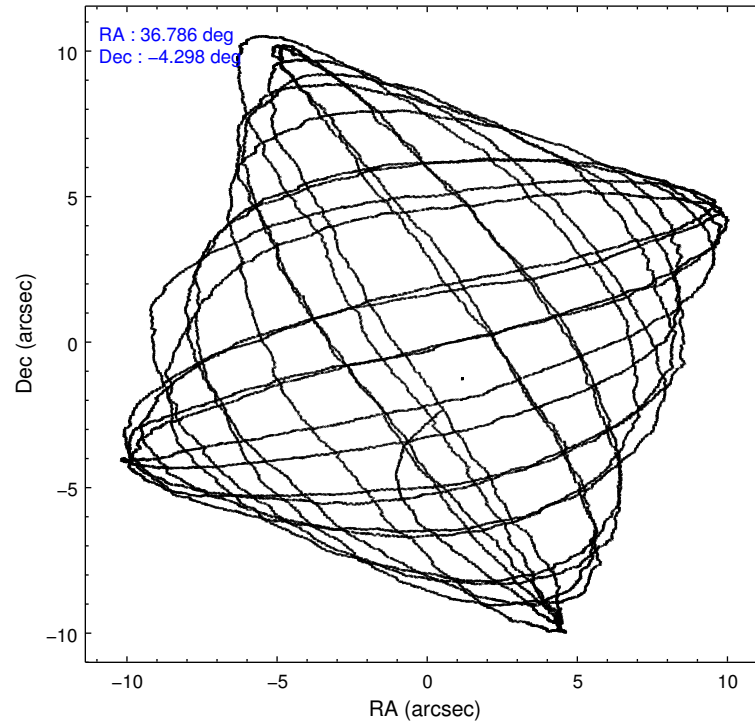
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	72987	72942	124937	75153	97933
rejected events	65189	65441	63753	66691	54974
rejected %	89%	89%	51%	88%	56%

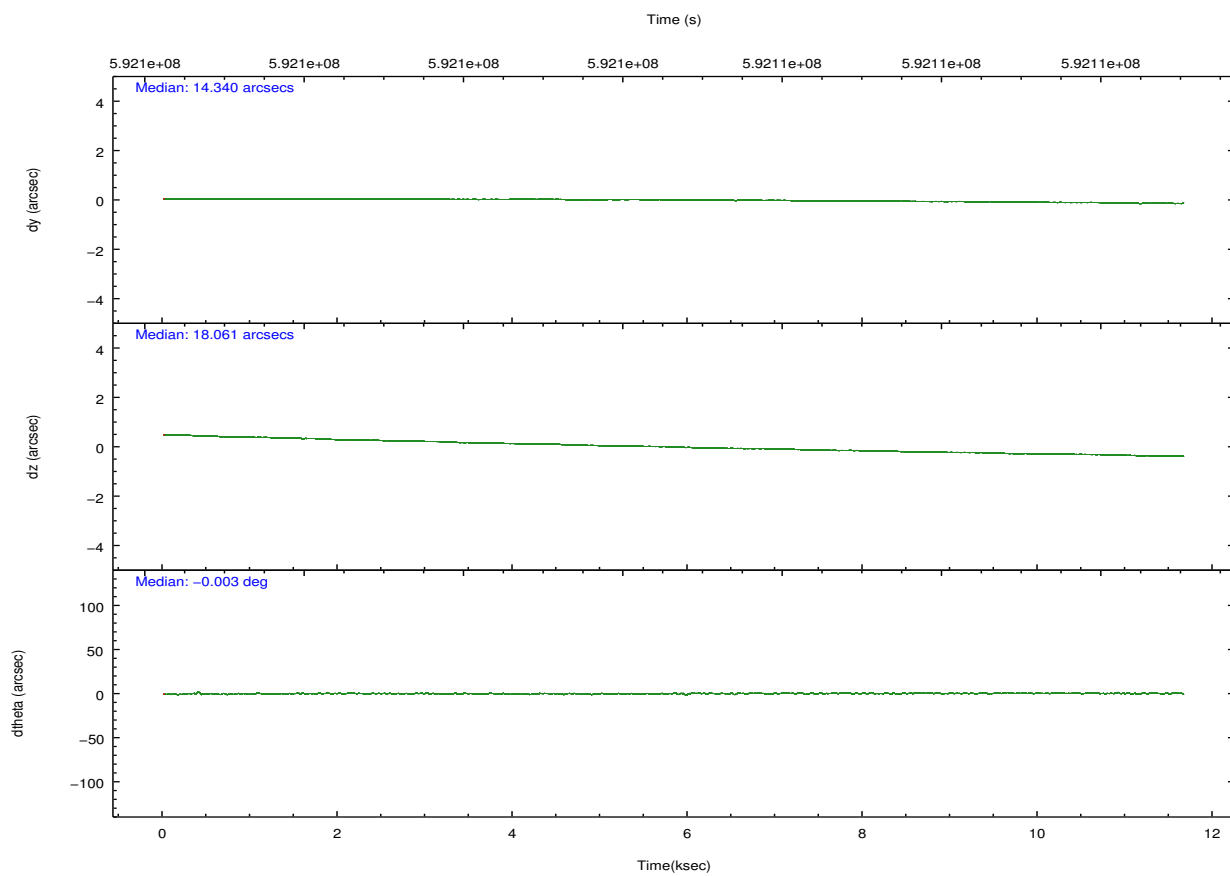
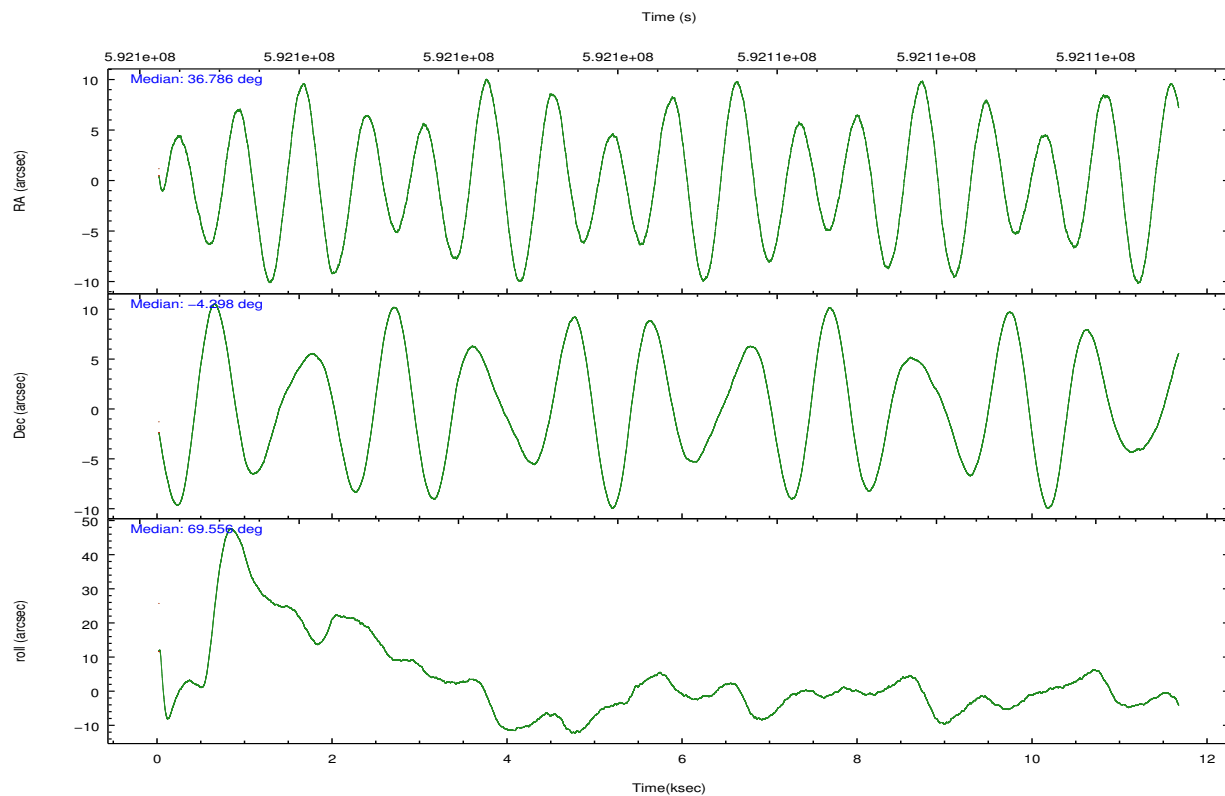
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2687	2581	9416	2872	4038
	3%	3%	7%	3%	4%
grade 1 events	39	39	246	43	141
	0%	0%	0%	0%	0%
grade 2 events	1974	1654	17906	1931	9077
	2%	2%	14%	2%	9%
grade 3 events	811	814	1735	847	3661
	1%	1%	1%	1%	3%
grade 4 events	764	805	1696	858	3384
	1%	1%	1%	1%	3%
grade 5 events	2911	3612	8369	3606	9811
	3%	4%	6%	4%	10%
grade 6 events	1563	1651	30455	1958	22807
	2%	2%	24%	2%	23%
grade 7 events	62238	61786	55114	63038	45014
	85%	84%	44%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	36.790677	36.78576129937403	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.324486	-4.297532423482966	Alternating exposures requested	N	N
[deg] Pointing Roll	69.407343	69.56363653477838	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	592099492.184000	592098320.85439			
Observation start date	2016-10-06T00:03:44	2016-10-05T23:45:20			
[s] Observation end time (MET)	592110492.184000	592111702.23016			
Observation end date	2016-10-06T03:07:04	2016-10-06T03:28:22			
Read mode	TIMED	TIMED			

2.3 Aspect



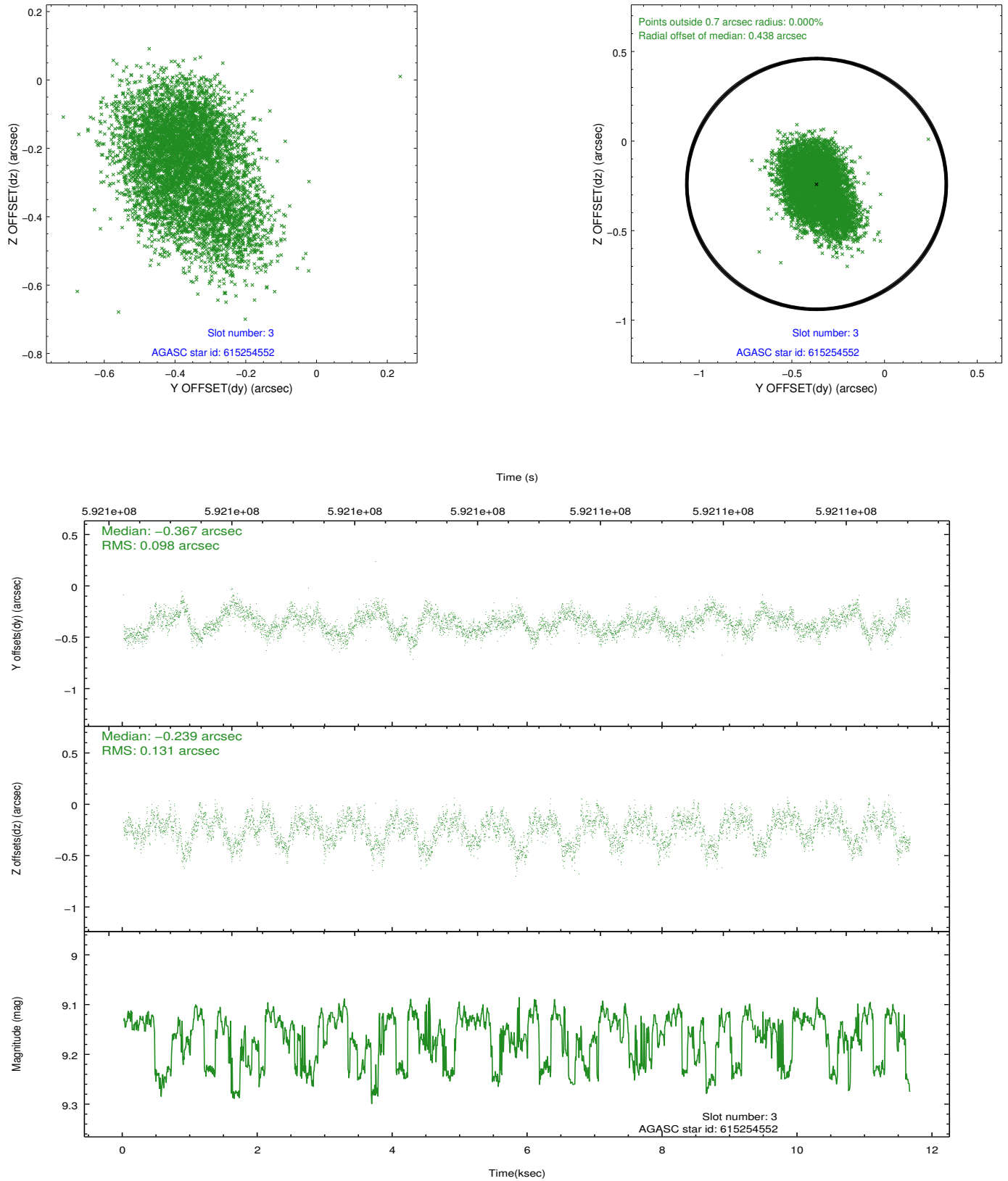


Slot Statistics

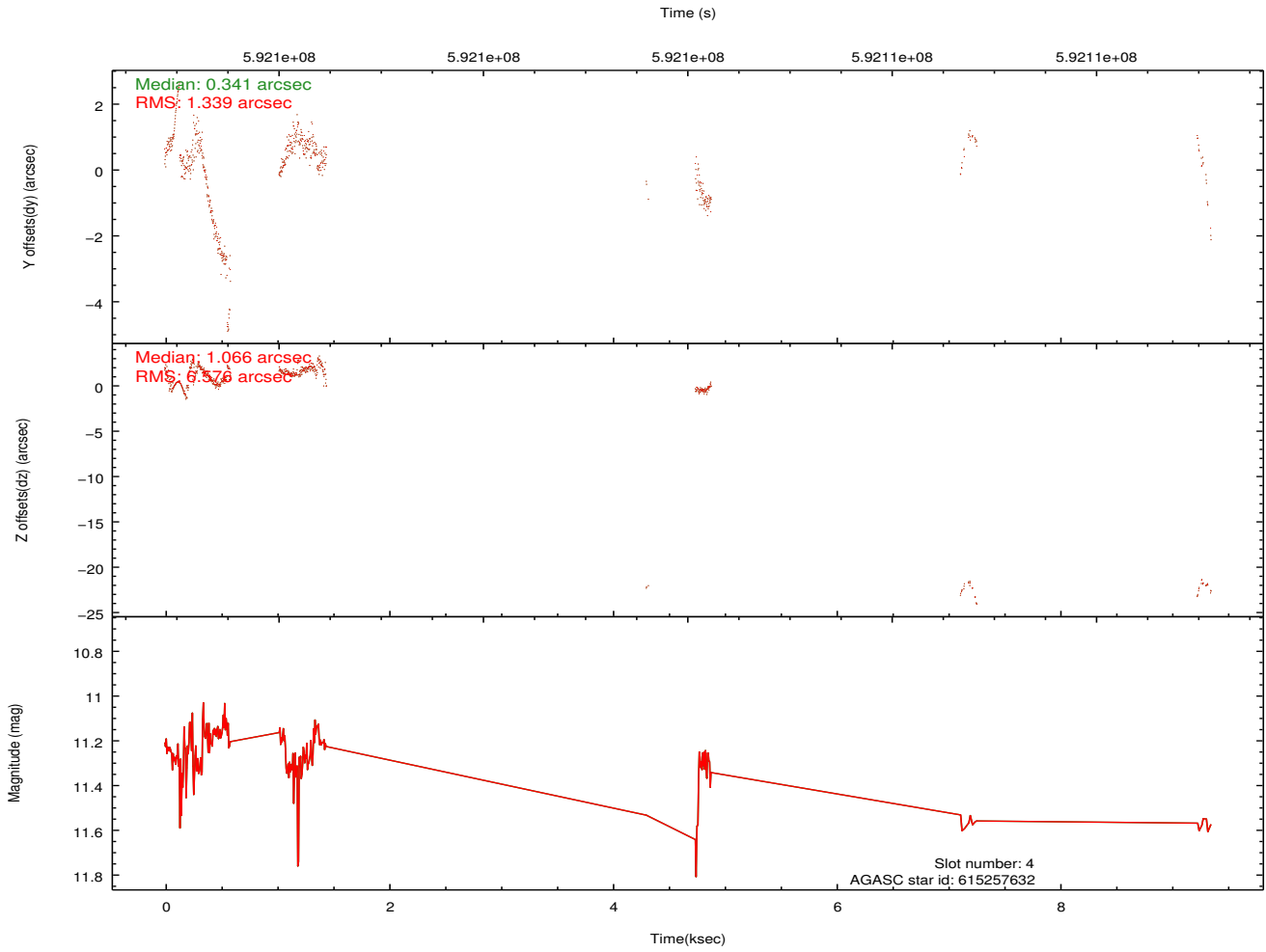
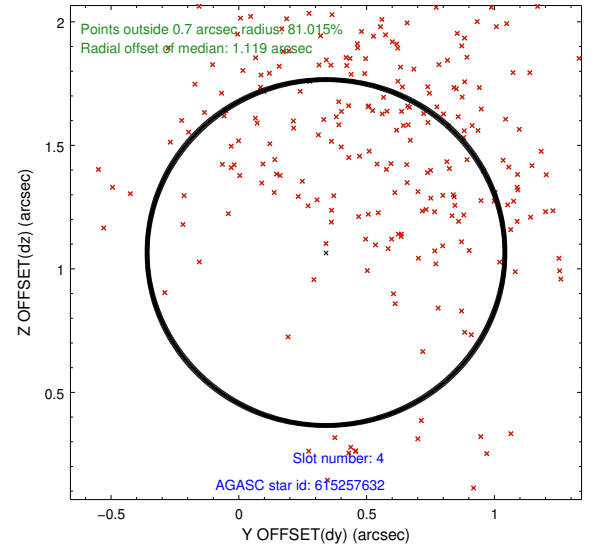
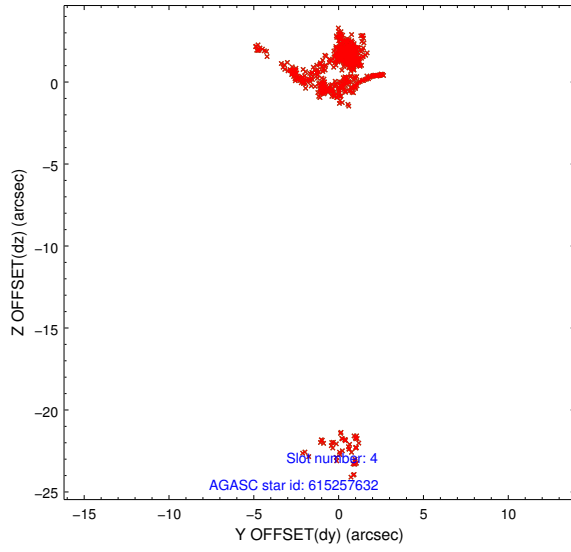
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.02	2842	-0.165	-0.123	0.010	0.016	0.000000	0.000000	-767.46	-1739.55
1	FID		ACIS-S-4	7.12	2843	0.452	0.112	0.007	0.013	0.000000	0.000000	2146.26	168.64
2	FID		ACIS-S-5	7.12	2842	-0.319	0.019	0.009	0.015	0.000000	0.000000	-1819.88	162.76
3	GUIDE	used	615254552	9.16	5682	-0.367	-0.239	0.173	0.281	36.600600	-3.877551	1265.69	1205.14
4	BAD	unused	615257632	11.26	611	0.341	1.066	1.843	23.091	37.476164	-4.150069	1451.73	-2081.92
5	GUIDE	used	615257744	9.33	5611	-0.108	0.110	0.155	0.259	37.483657	-4.208414	1266.18	-2182.35
6	GUIDE	used	615258432	10.03	5677	0.281	-0.217	0.217	0.370	36.673522	-4.852705	-1926.80	-276.12
7	GUIDE	used	615651688	9.28	5681	0.182	0.358	0.154	0.244	36.942546	-5.027086	-2172.73	-1402.46

2.4 Star Slots

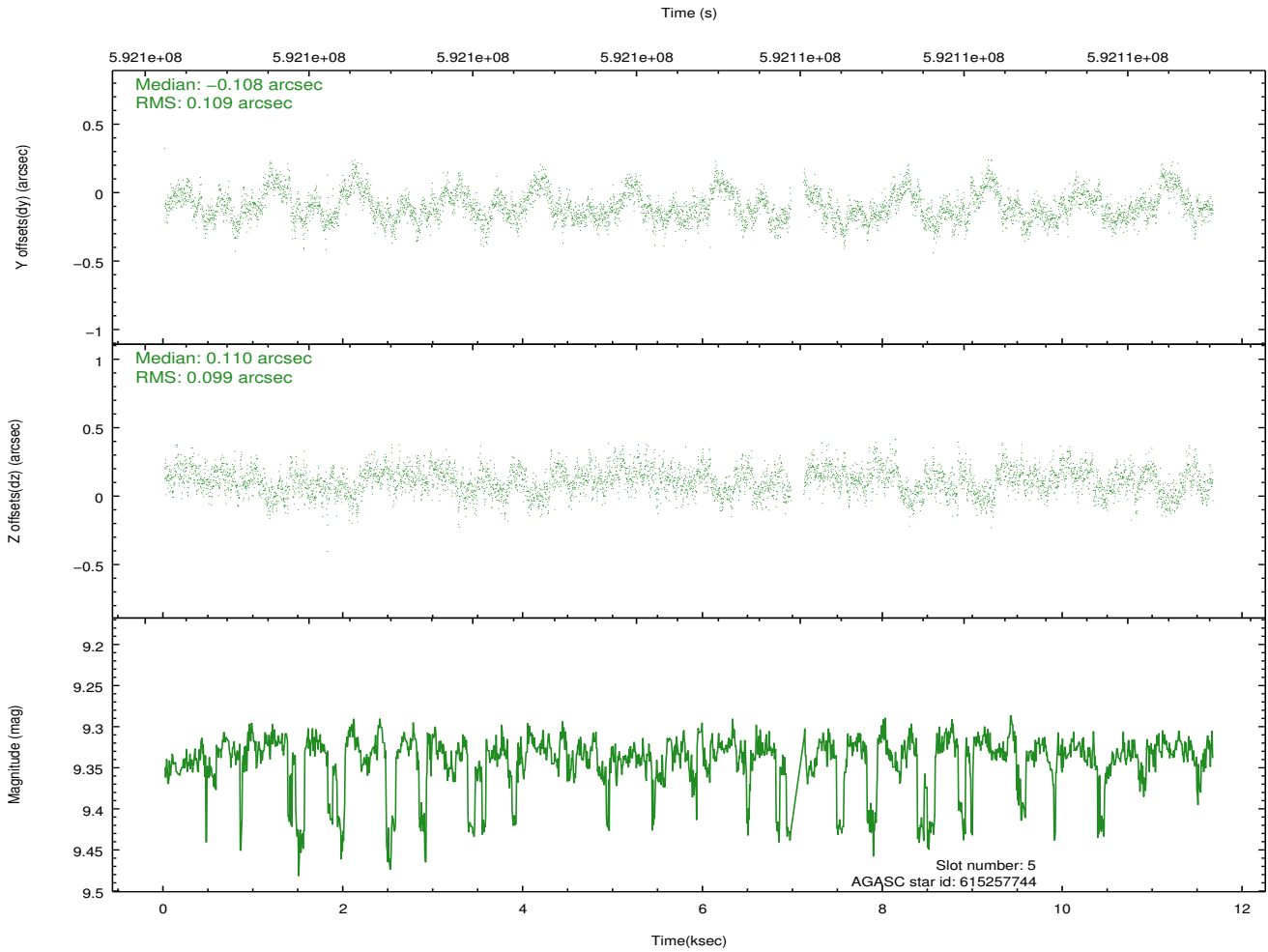
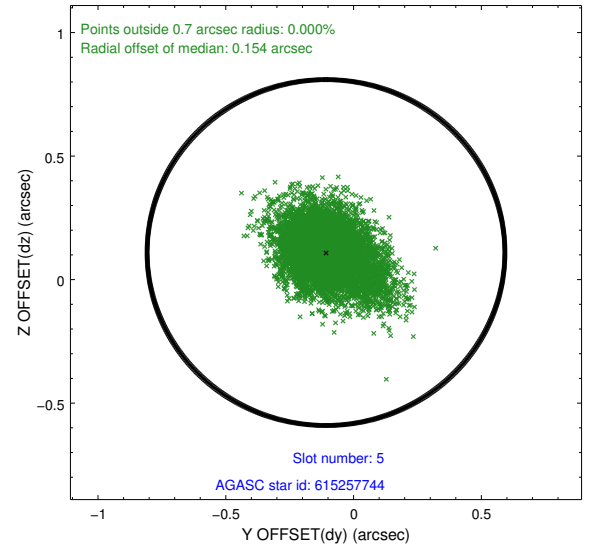
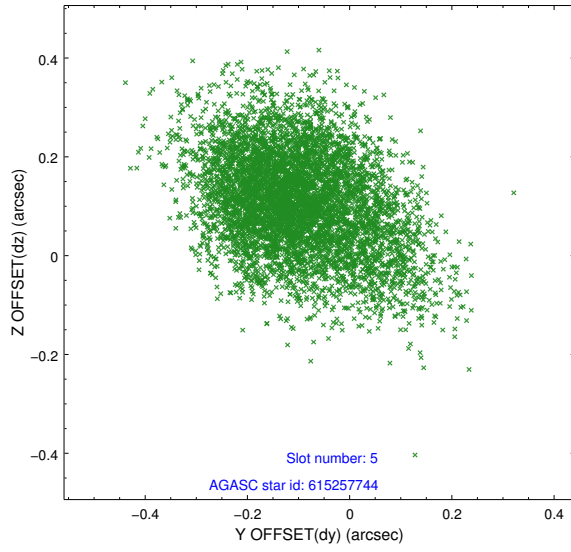
2.4.1 Slot 3



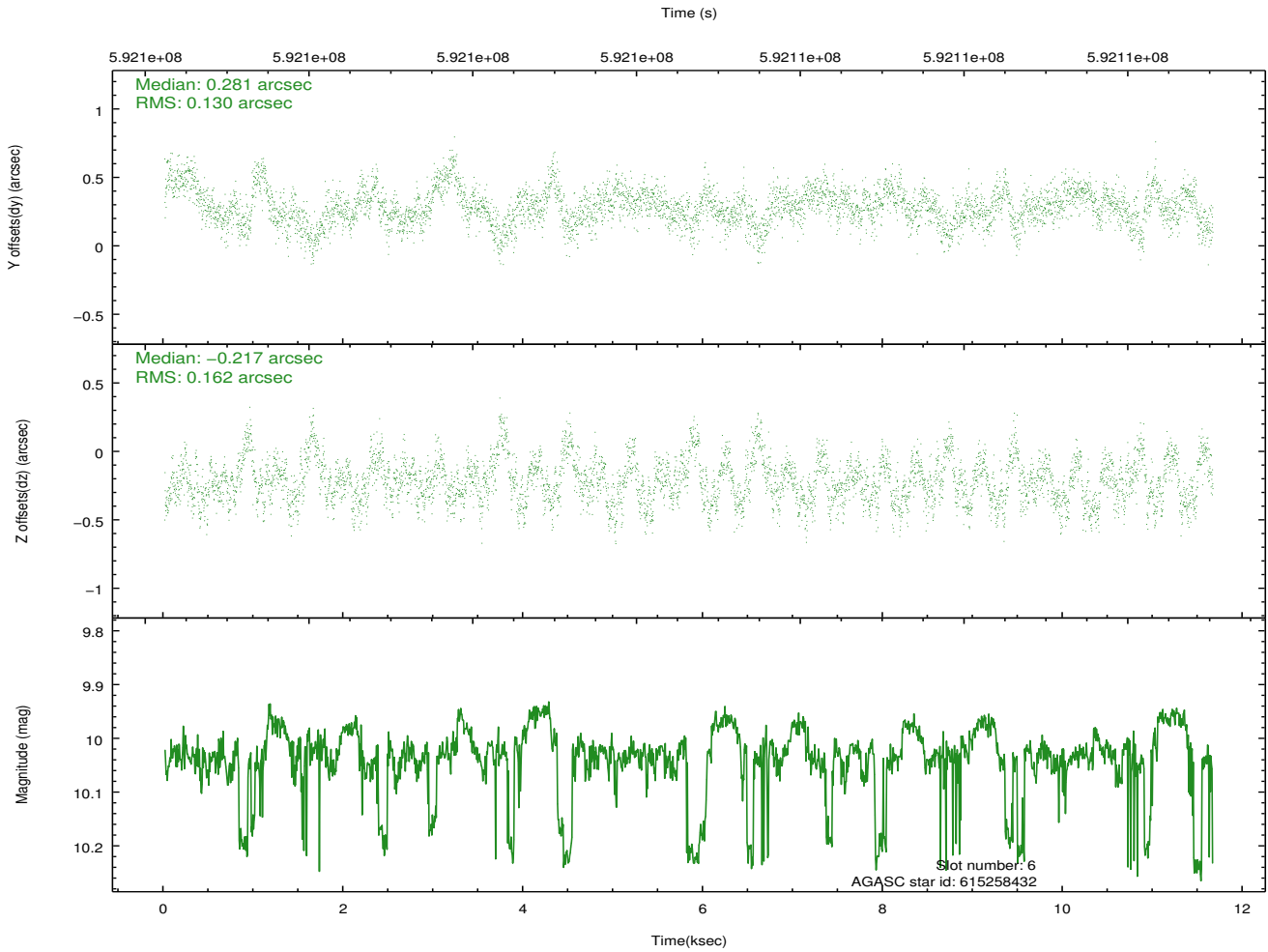
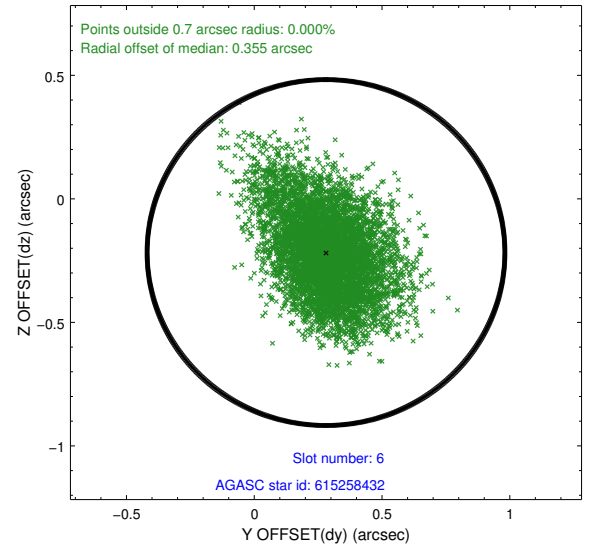
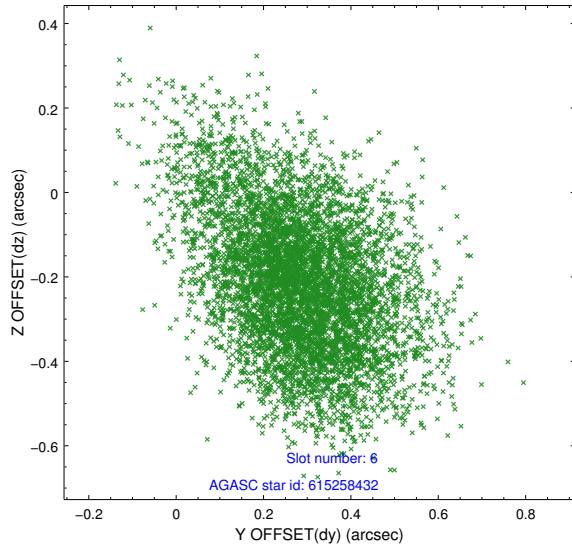
2.4.2 Slot 4



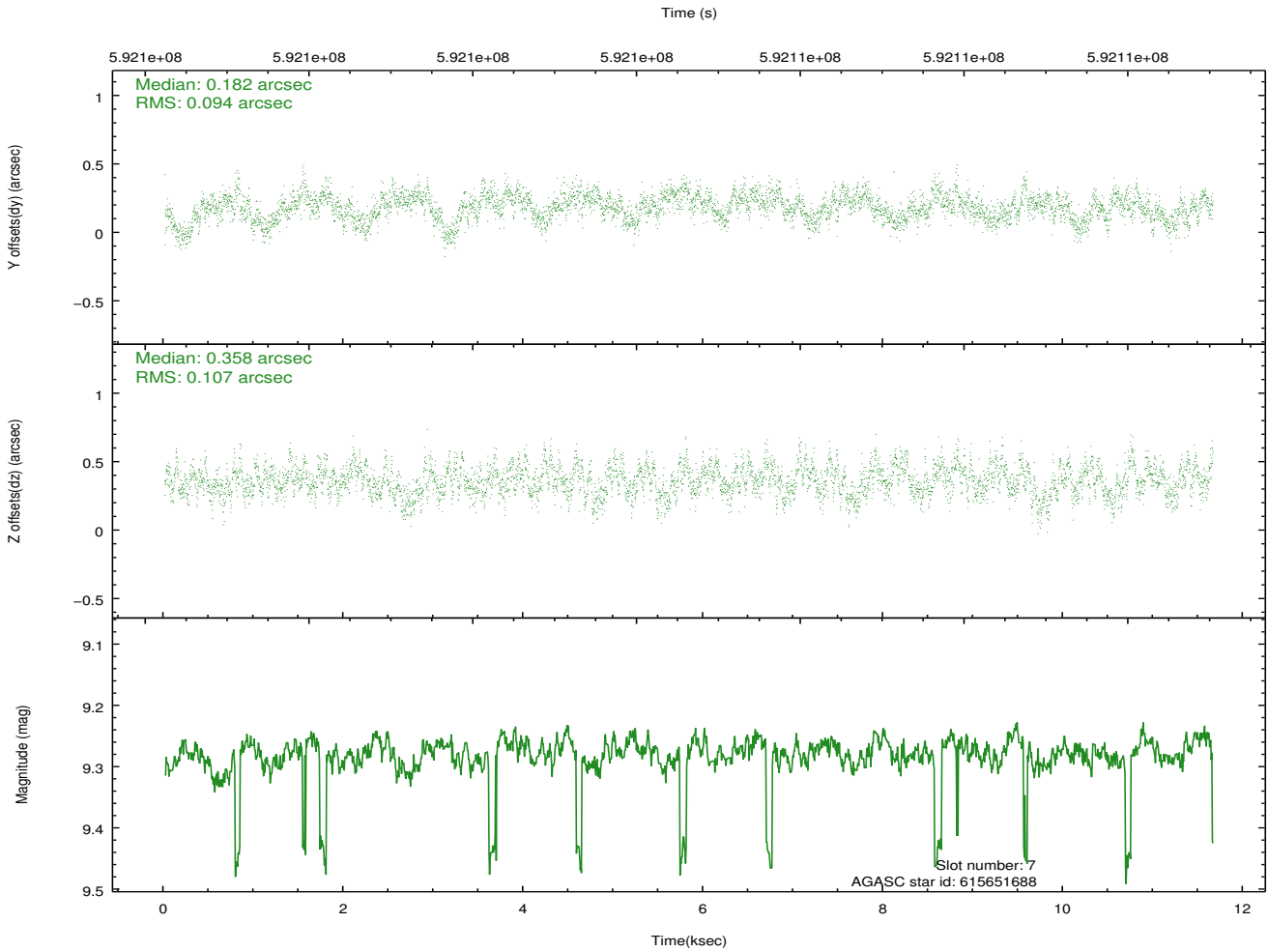
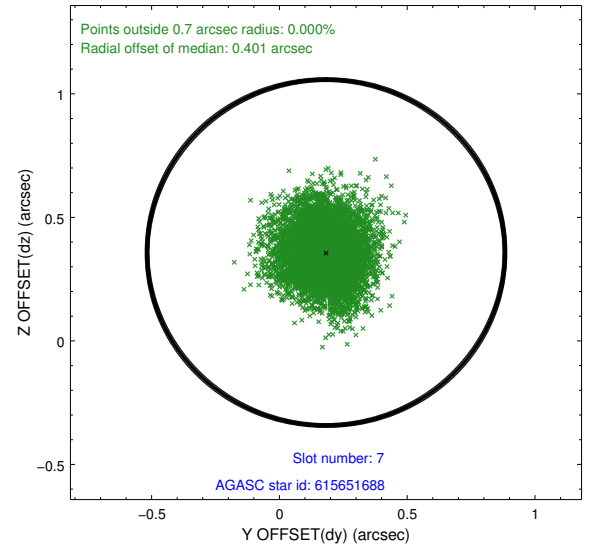
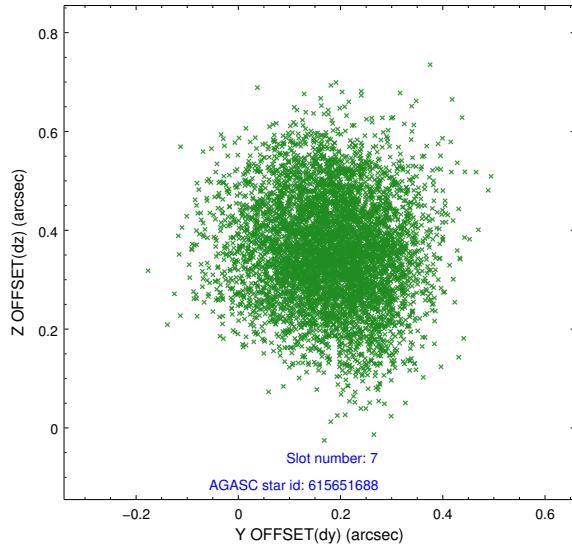
2.4.3 Slot 5



2.4.4 Slot 6

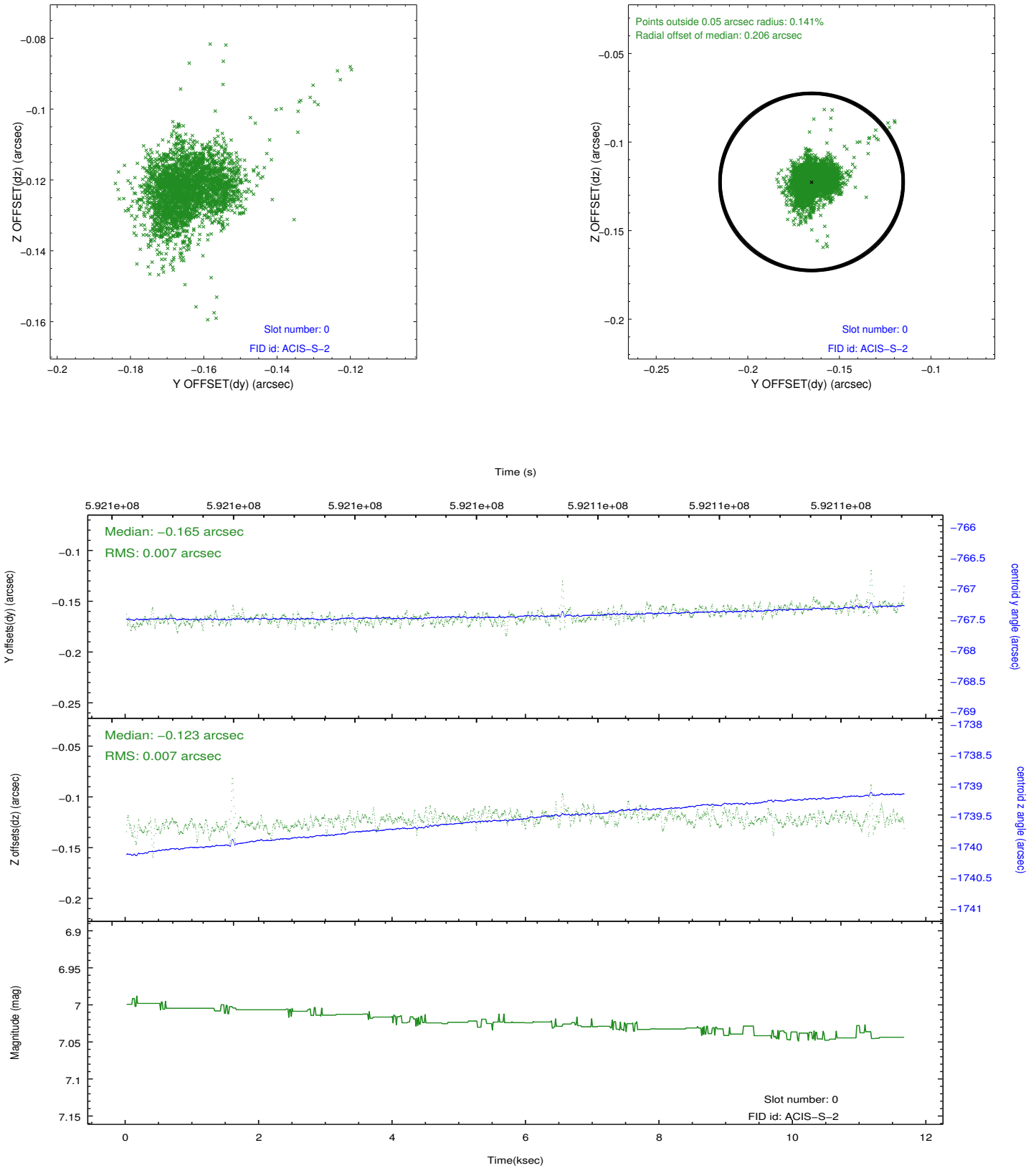


2.4.5 Slot 7

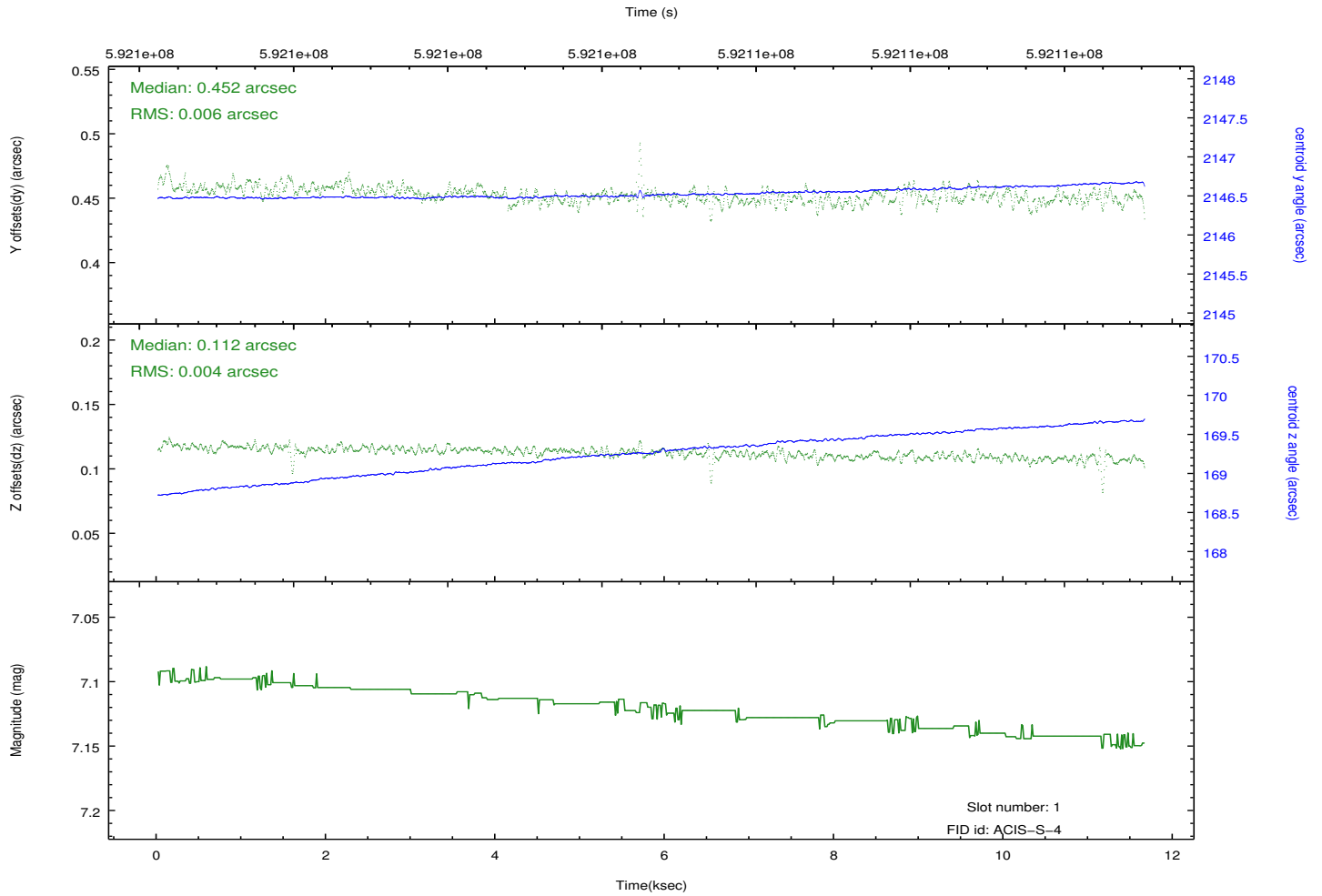
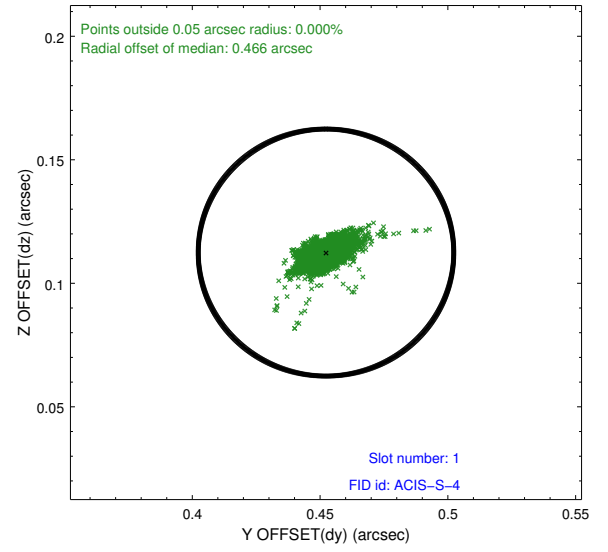
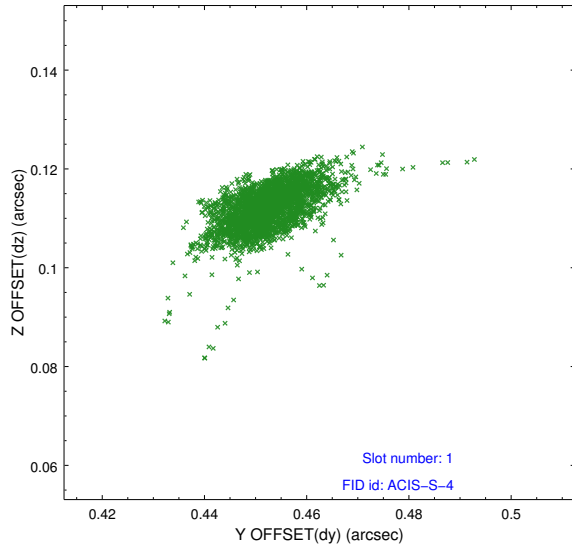


2.5 FID Slots

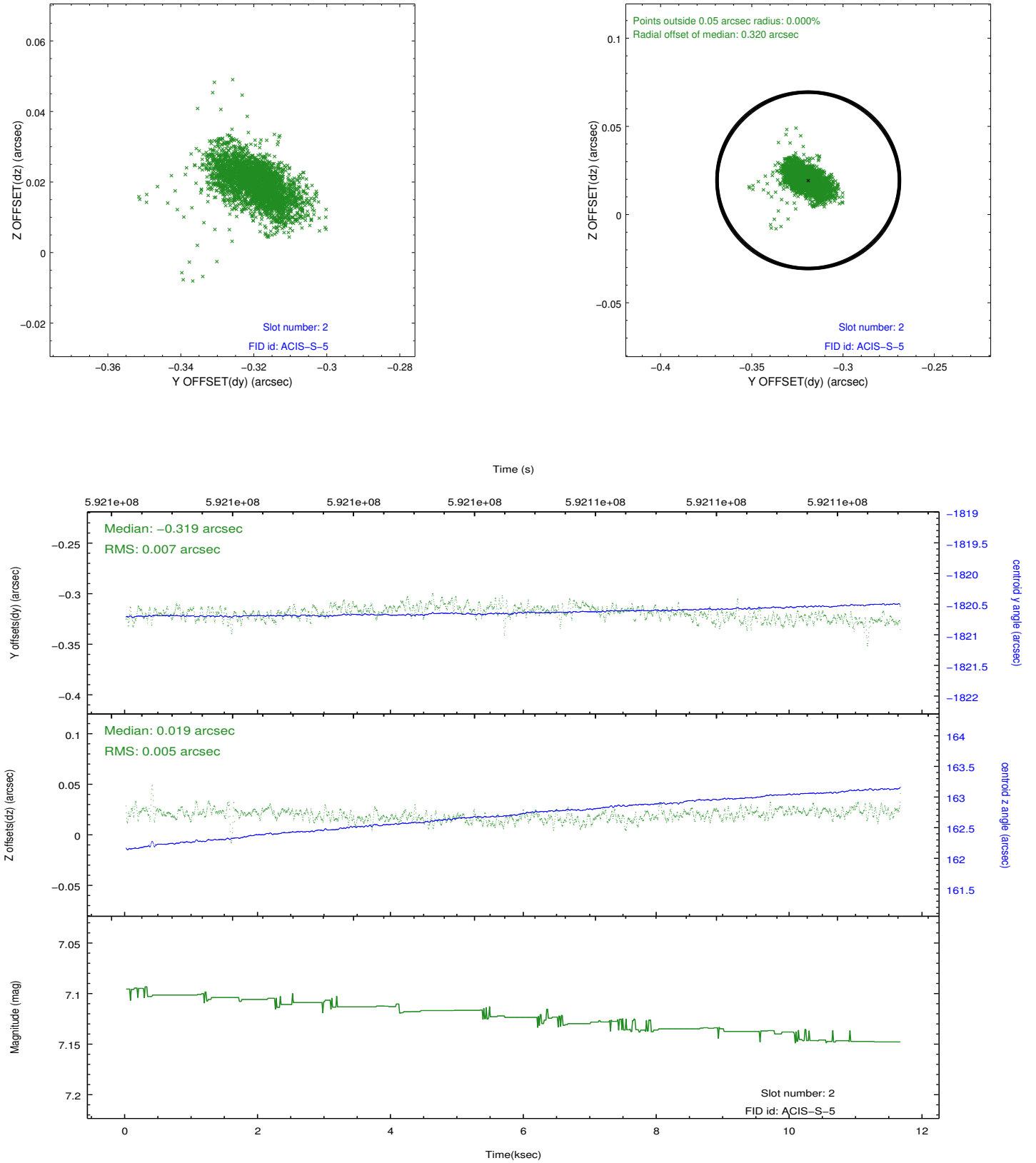
2.5.1 Slot 0



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)	2016.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.042200085044

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.