

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18443 - L2 Version 1
Chandra X-Ray Center

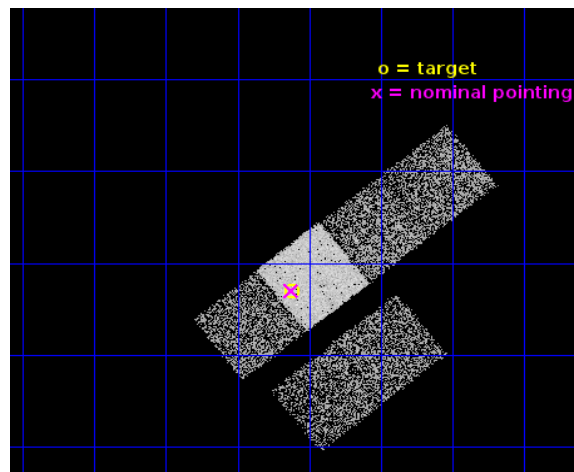
L2 Processing Date : Nov 28 2015

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1 Front

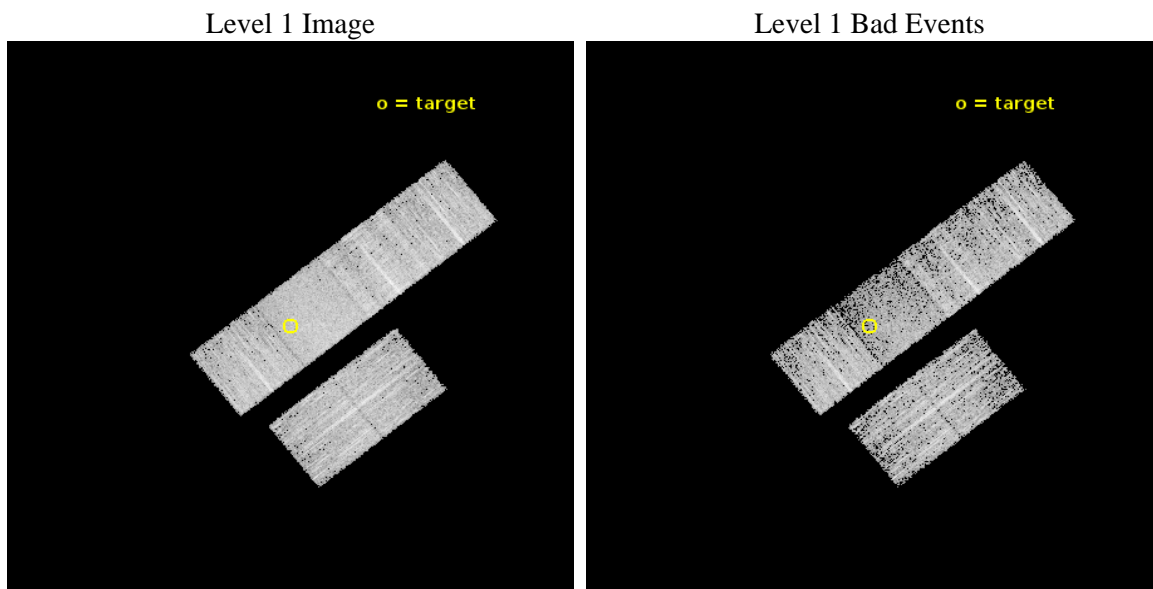
seq_num	703282	Sequence number
obs_id	18443	Observation id
title	Deciphering the X-ray Enhancement of Highly Radio-Loud Quasars in the Early Universe	Proposal title
observer	Dr. Gordon Garmire	Principal investigator
object	SDSS J030437.21+004653.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	46.155	Observer's specified target RA [deg]
dec_targ	0.781528	Observer's specified target Dec [deg]
ra_nom	46.156279428398	Nominal RA [deg]
dec_nom	0.78334118696875	Nominal Dec [deg]
roll_nom	321.41415176915	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5958.4000887871	Sum of GTIs [s]
livetime	5882.9512391451	Livetime [s]
ontime2	5958.4000887871	Sum of GTIs [s]
ontime3	5958.4000887871	Sum of GTIs [s]
ontime6	5958.4000887871	Sum of GTIs [s]
ontime7	5958.4000887871	Sum of GTIs [s]
ontime8	5958.4000887871	Sum of GTIs [s]
ontime9	5958.4000887871	Sum of GTIs [s]
l2events	31051	Number of level 2 events



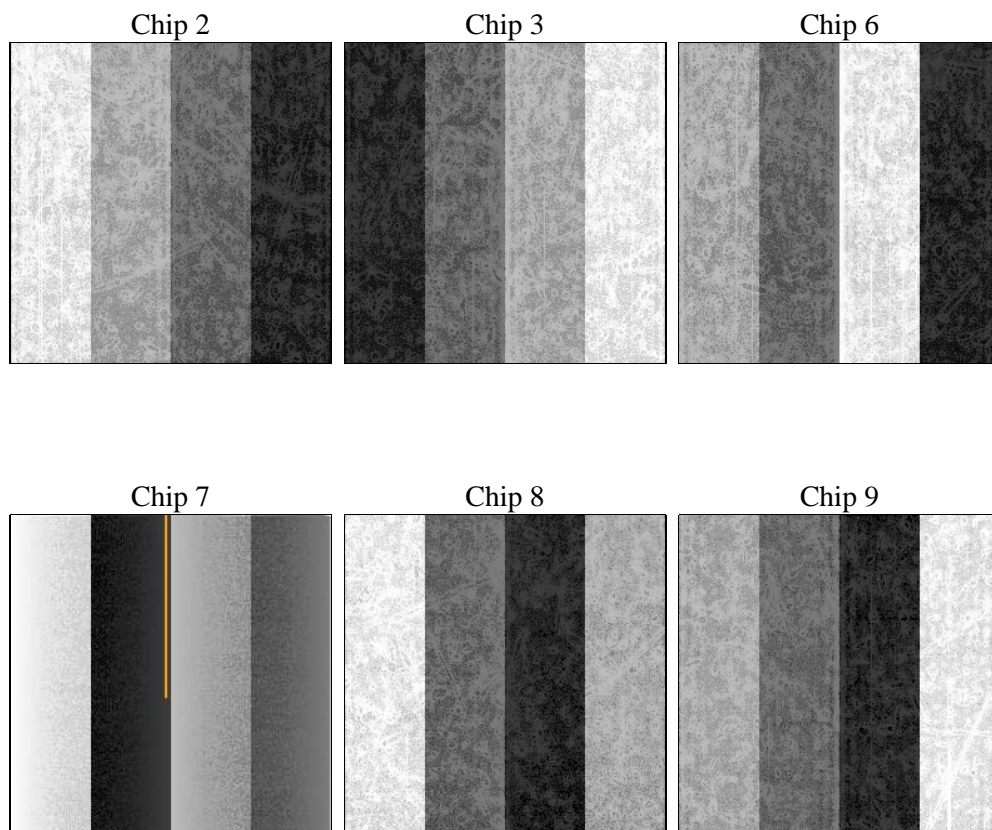
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	5958.4000887871	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime2	5958.4000887871	Sum of GTIs [s]
date	2015-11-28T20:24:17	Date and time of file creation	ontime3	5958.4000887871	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5958.4000887871	Sum of GTIs [s]
			ontime7	5958.4000887871	Sum of GTIs [s]
			ontime8	5958.4000887871	Sum of GTIs [s]
			ontime9	5958.4000887871	Sum of GTIs [s]
			l1events	202592	Number of level 1 events

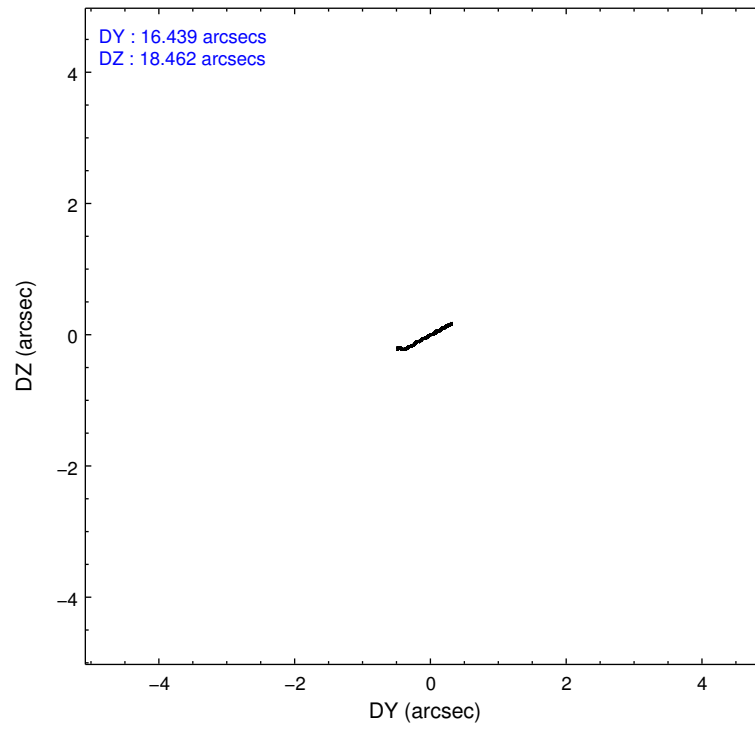
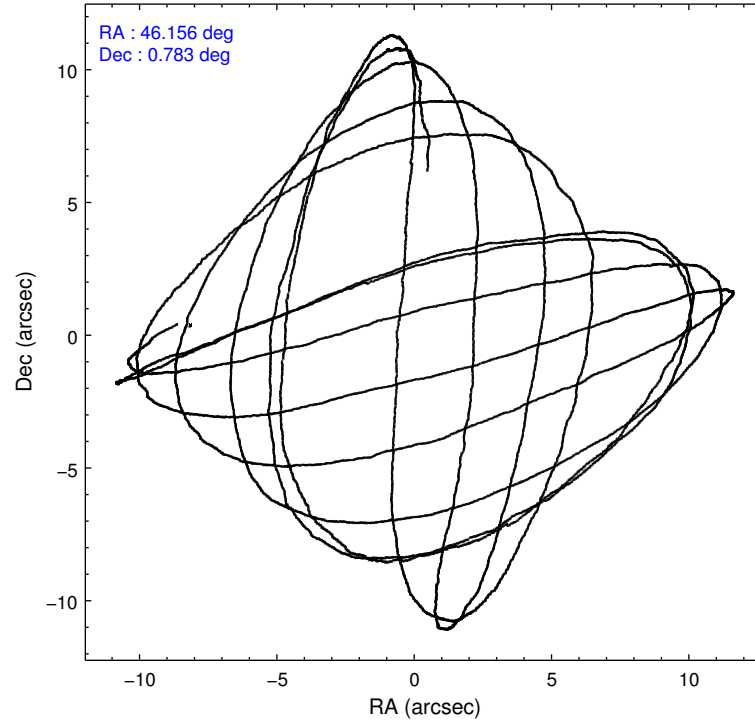
2.1.4 Events

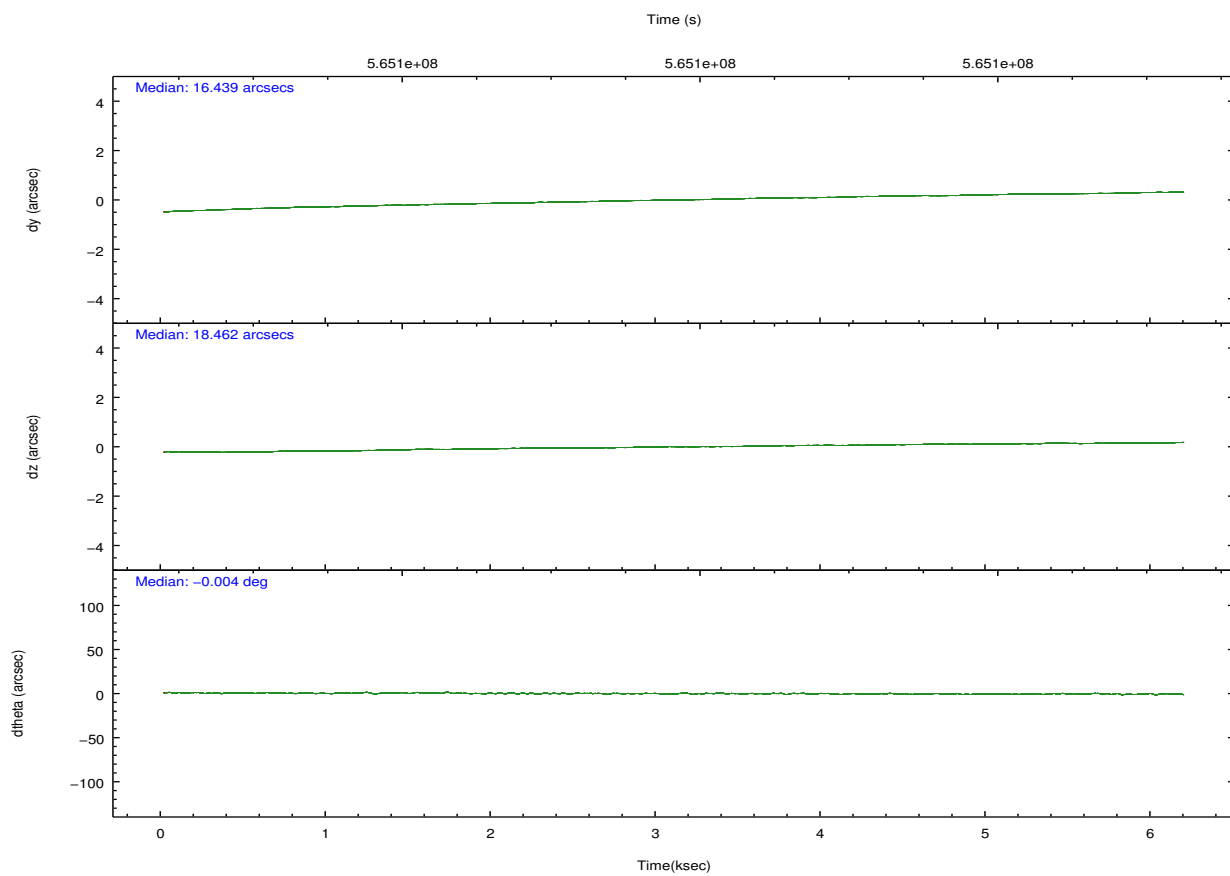
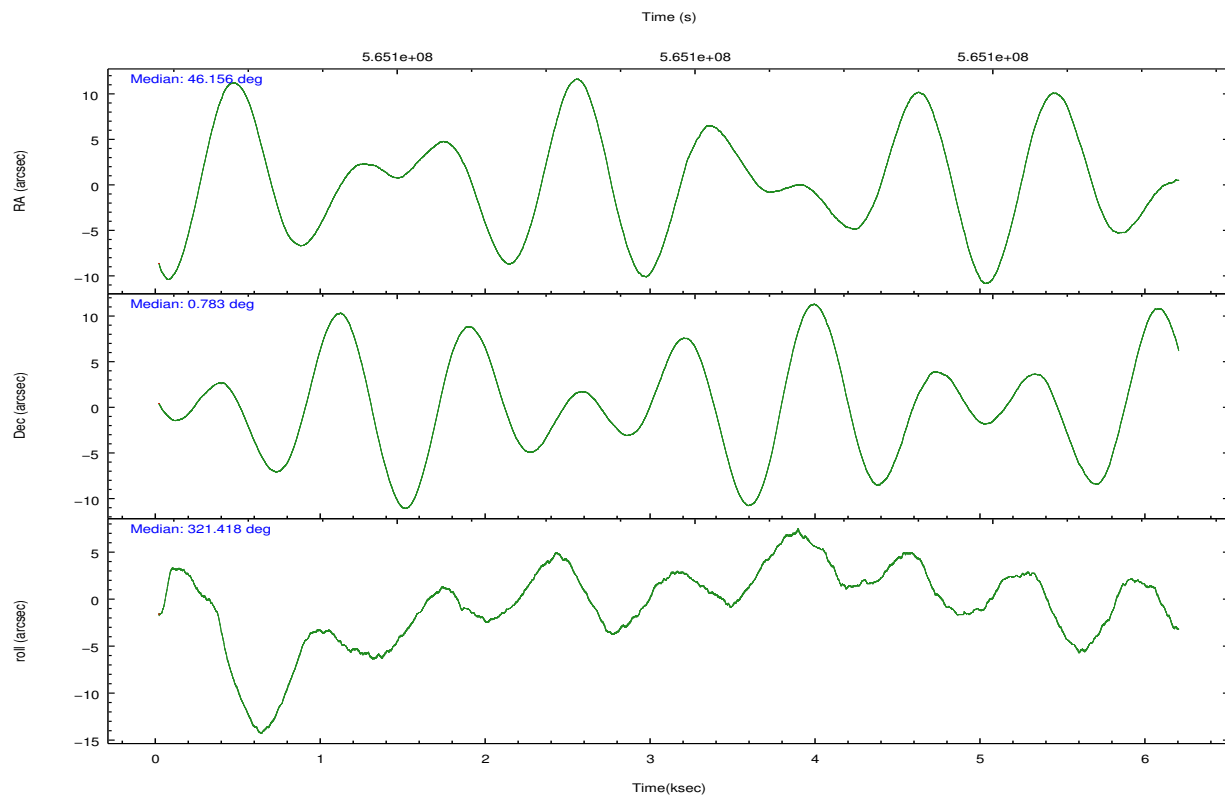
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	31643	29547	33368	35319	39857	32858	grade 0 events	1130	1161	1228	1408	2963	1226
rejected events	28472	26391	29915	18855	29116	29215		3%	3%	3%	3%	7%	3%
rejected %	89%	89%	89%	53%	73%	88%	grade 1 events	11	27	19	61	34	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	801	662	785	3670	2585	883
								2%	2%	2%	10%	6%	2%
							grade 3 events	343	355	343	1416	1101	372
								1%	1%	1%	4%	2%	1%
							grade 4 events	335	337	357	1344	1076	368
								1%	1%	1%	3%	2%	1%
							grade 5 events	1056	1345	1337	3648	2111	1606
								3%	4%	4%	10%	5%	4%
							grade 6 events	564	644	745	8637	3017	796
								1%	2%	2%	24%	7%	2%
							grade 7 events	27403	25016	28554	15135	26970	27586
								86%	84%	85%	42%	67%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-236789	ACIS-236789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	46.129120	46.15627942839798	CCD I2 on	O1	Y
[deg] Pointing Dec	0.787010	0.7833411869687492	CCD I3 on	O2	Y
[deg] Pointing Roll	321.257880	321.4141517691512	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	565094926.184000	565093884.62547	CCD S5 on	Y	Y
Observation start date	2015-11-28T10:47:38	2015-11-28T10:31:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	565100926.184000	565101327.15089	On-chip summing requested	N	N
Observation end date	2015-11-28T12:27:38	2015-11-28T12:35:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



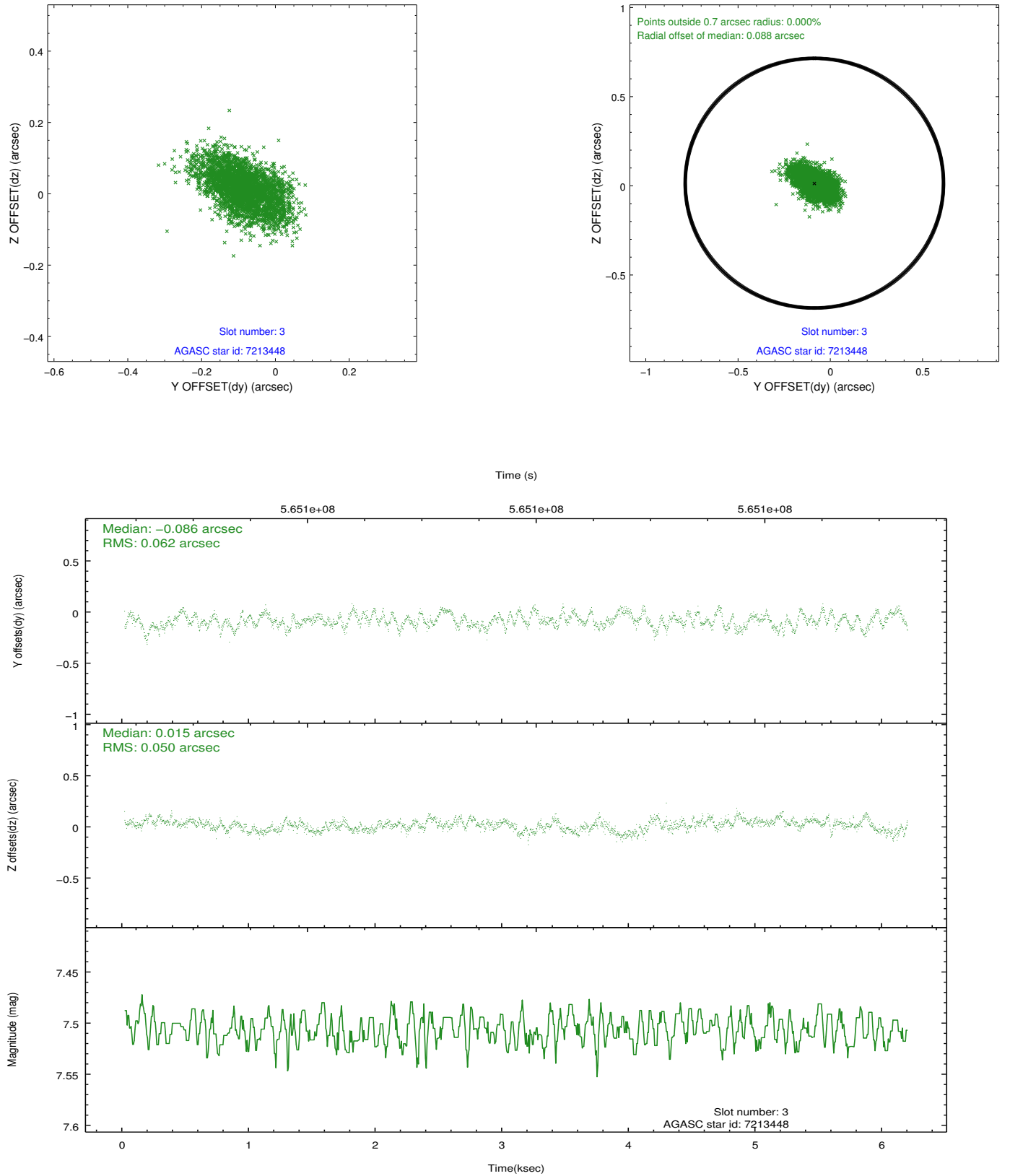


Slot Statistics

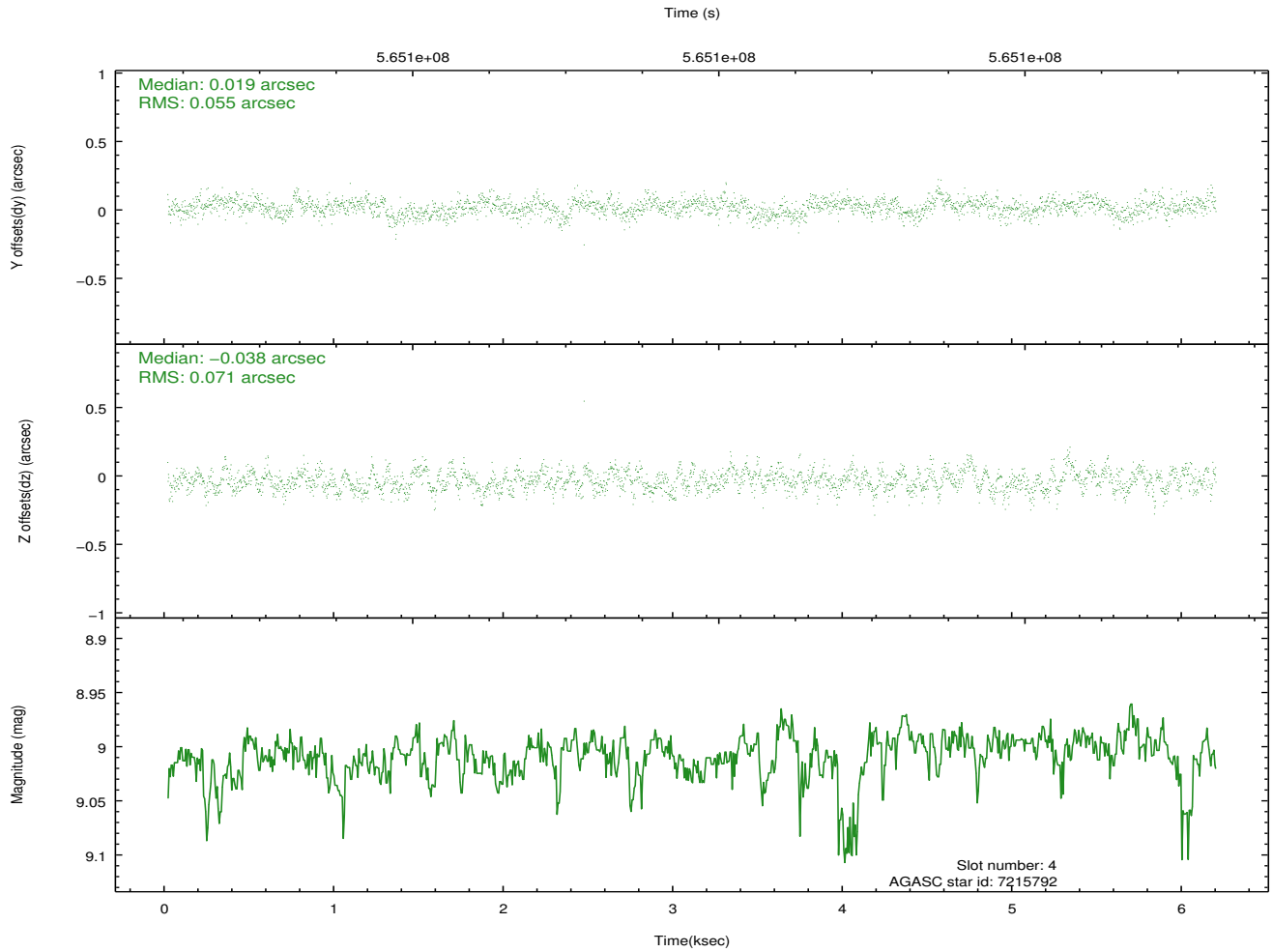
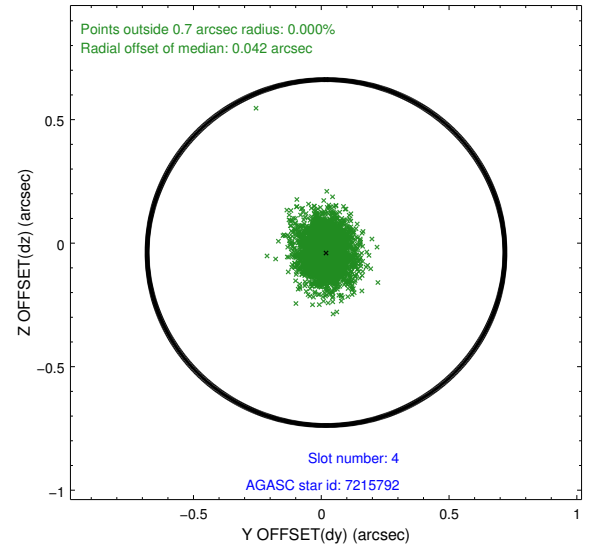
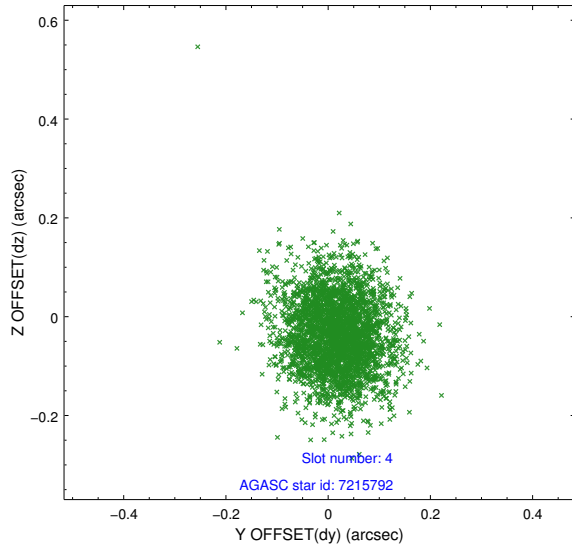
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1509	-0.162	-0.149	0.008	0.013	0.000000	0.000000	-769.59	-1740.02
1	FID		ACIS-S-4	7.22	1509	0.423	0.118	0.006	0.010	0.000000	0.000000	2143.83	167.74
2	FID		ACIS-S-5	7.23	1509	-0.291	0.040	0.008	0.014	0.000000	0.000000	-1821.34	162.42
3	GUIDE	used	7213448	7.51	3016	-0.086	0.015	0.085	0.142	45.794133	1.368172	-2248.74	877.78
4	GUIDE	used	7215792	9.01	3011	0.019	-0.038	0.094	0.157	46.329161	1.271050	-529.38	1809.69
5	GUIDE	used	7219576	8.94	3016	-0.057	0.050	0.117	0.195	46.931678	0.861328	2086.85	2016.22
6	GUIDE	used	7209576	9.10	3012	0.058	0.114	0.147	0.233	45.871057	1.512177	-2356.64	1456.60
7	GUIDE	used	7211616	7.85	3015	0.066	-0.151	0.077	0.126	45.964645	1.019611	-986.28	282.81

2.4 Star Slots

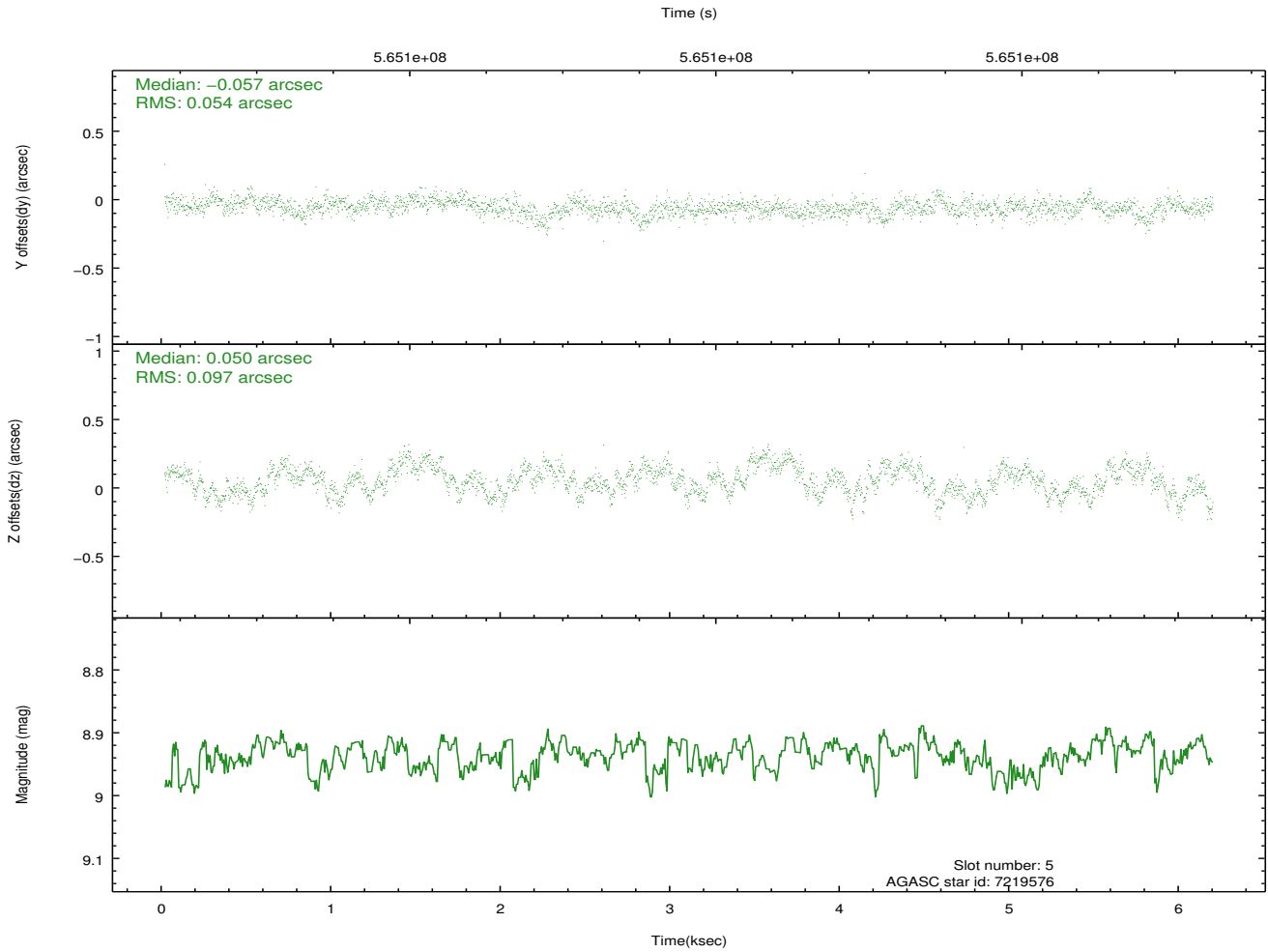
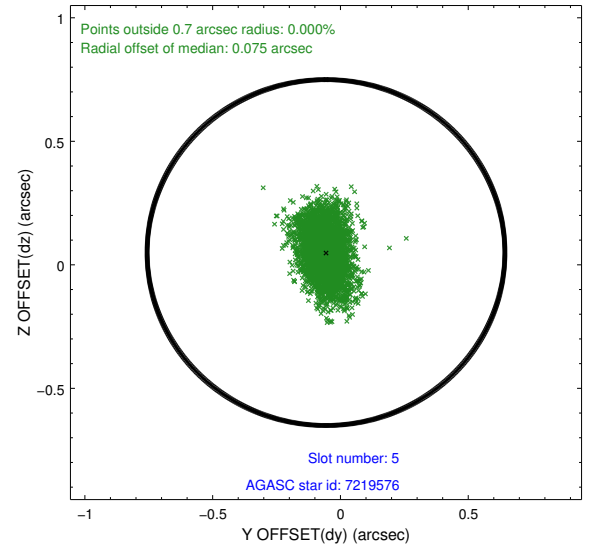
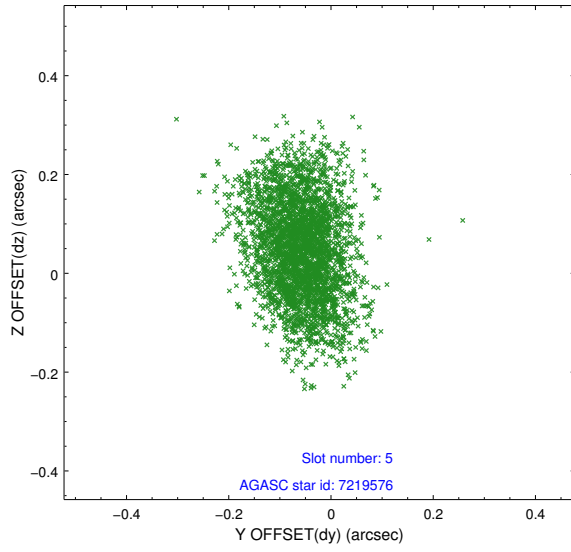
2.4.1 Slot 3



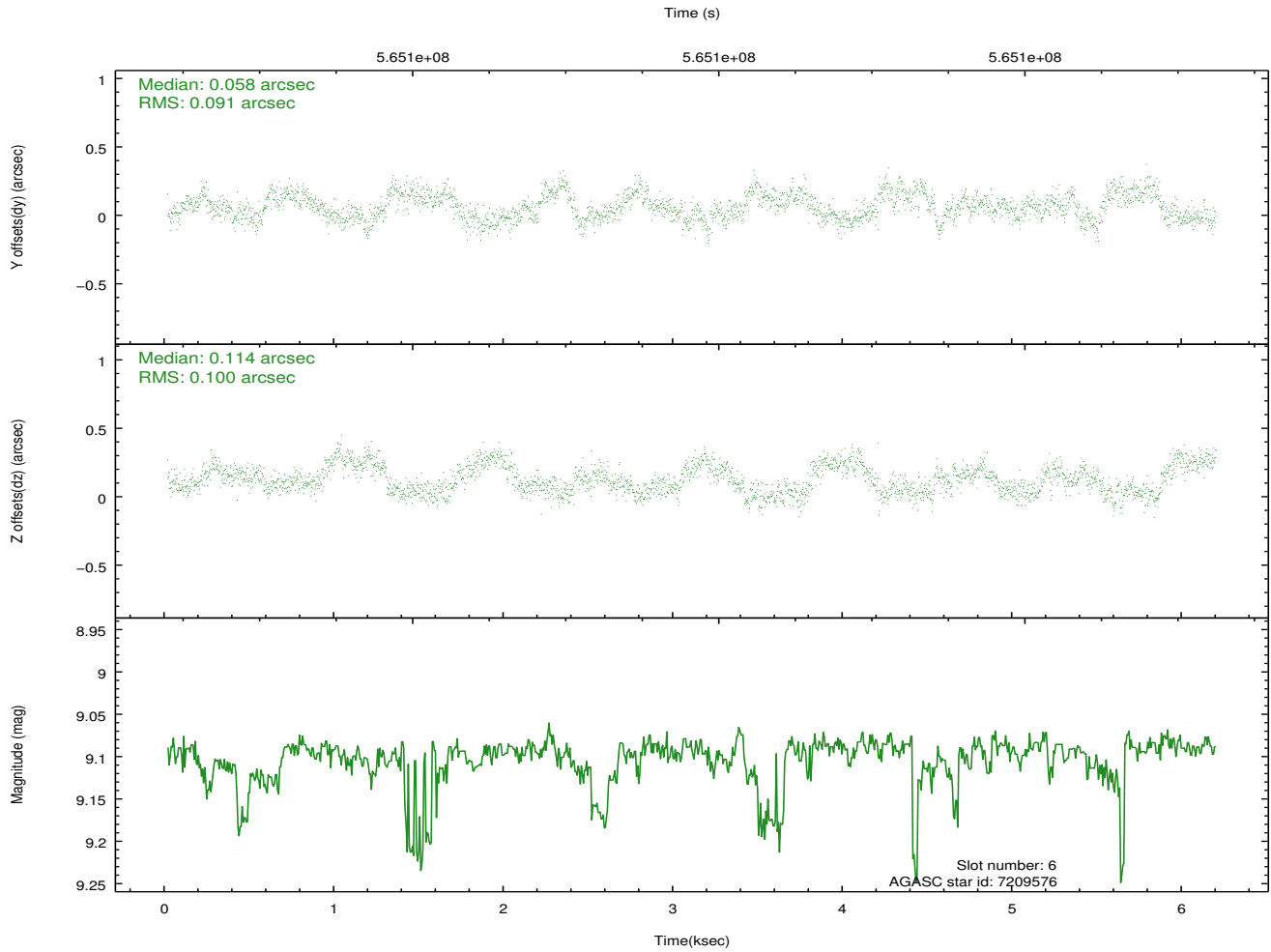
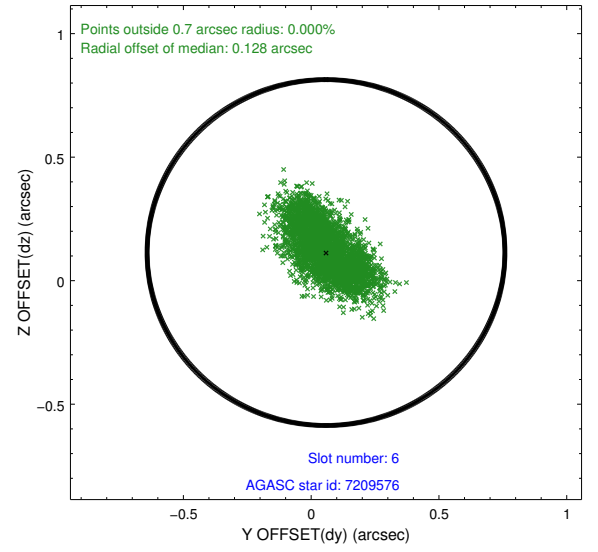
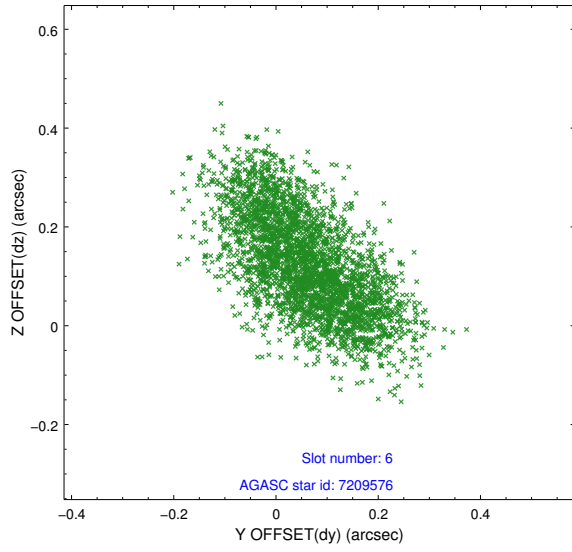
2.4.2 Slot 4



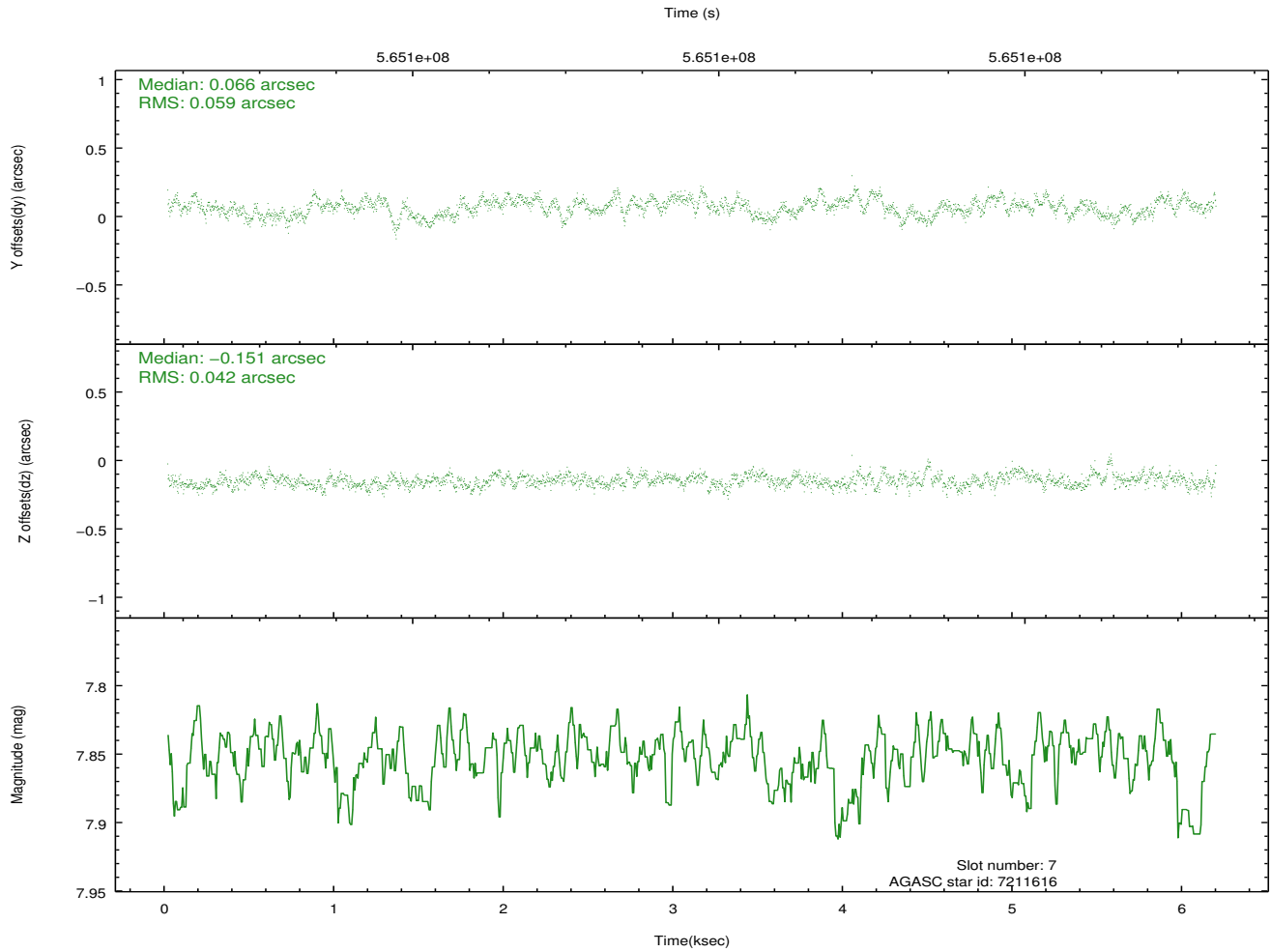
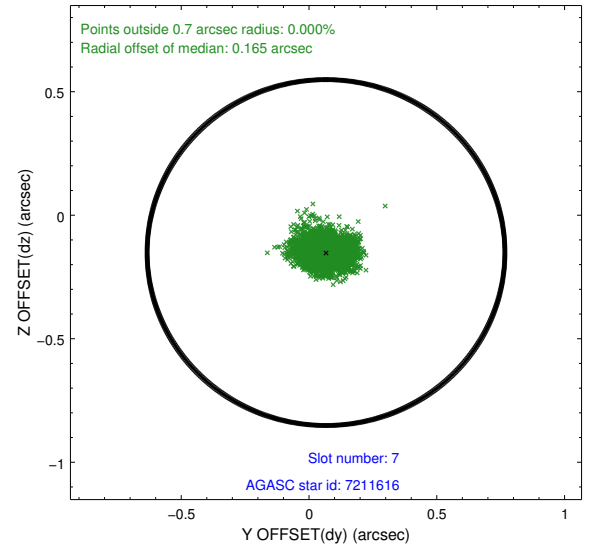
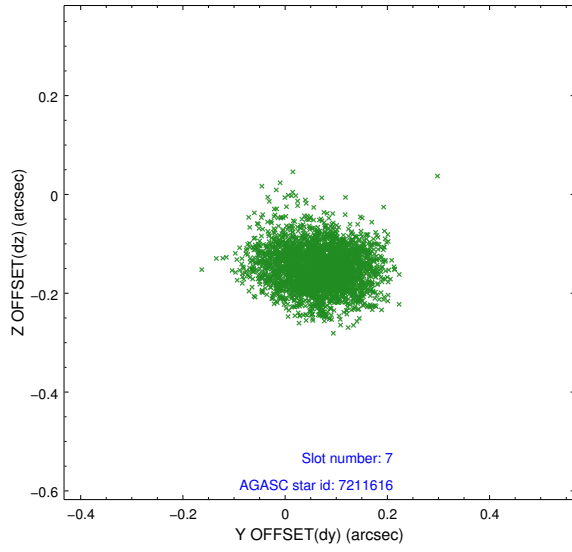
2.4.3 Slot 5



2.4.4 Slot 6

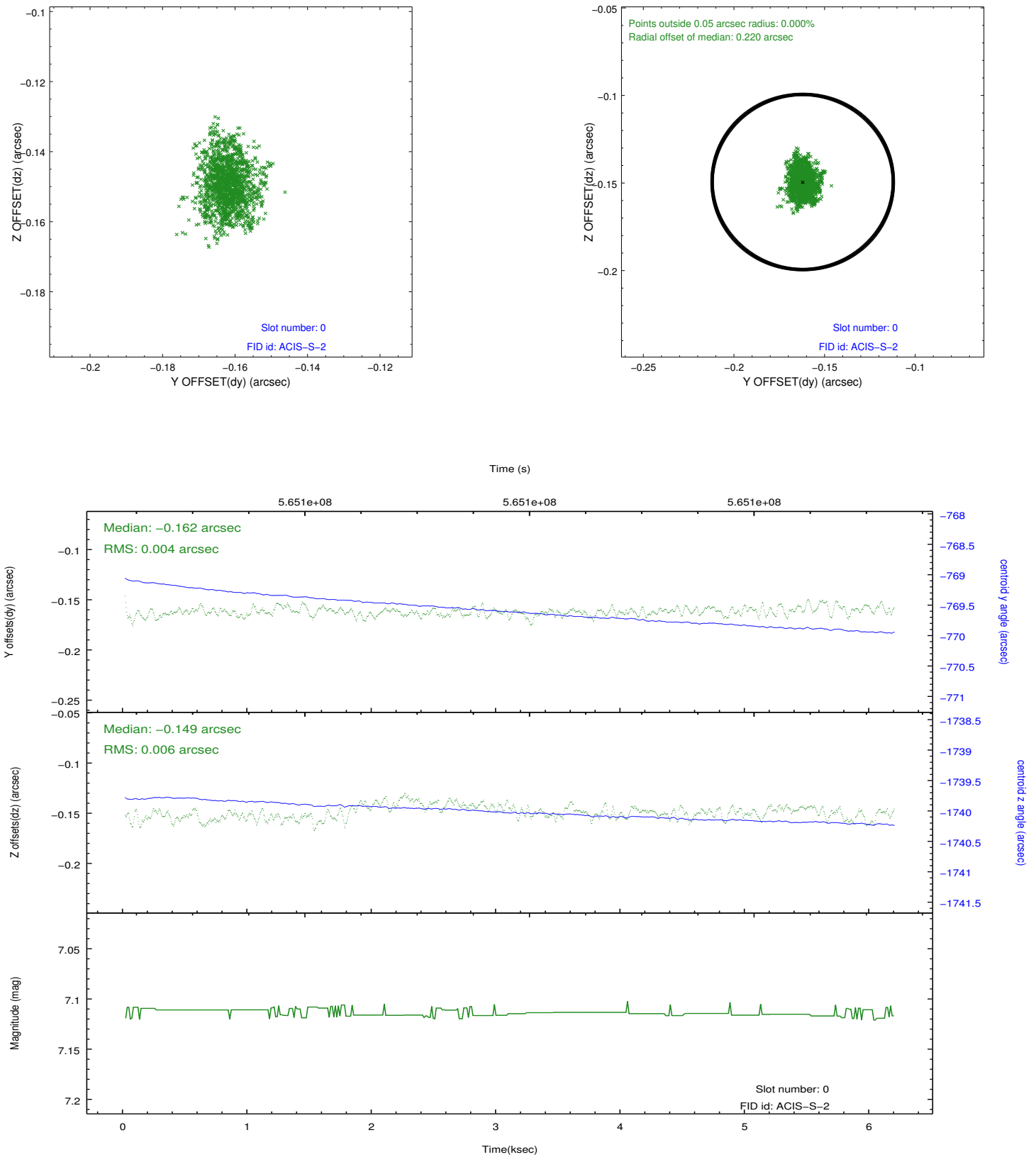


2.4.5 Slot 7

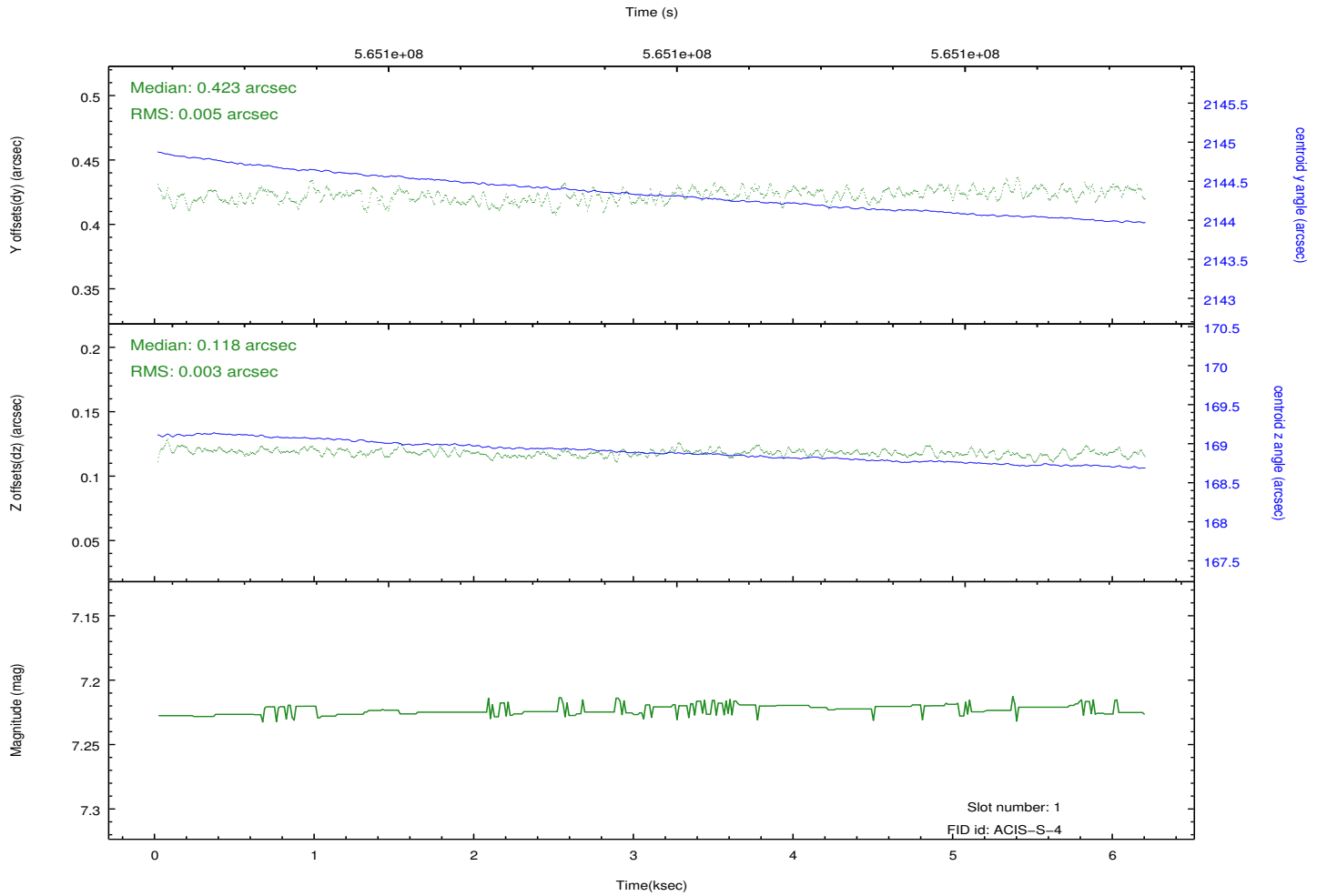
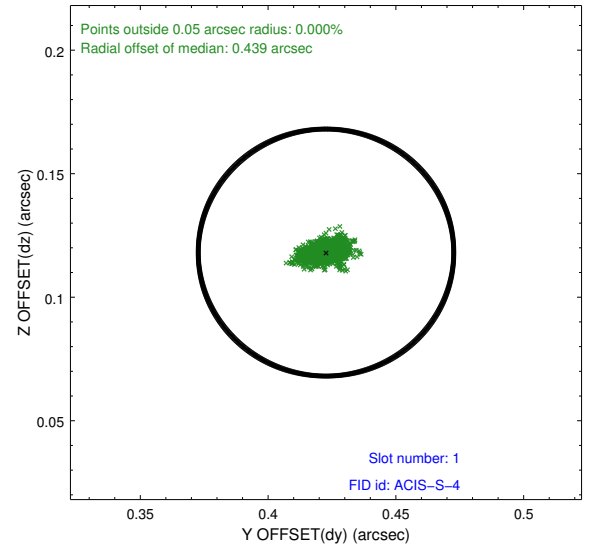
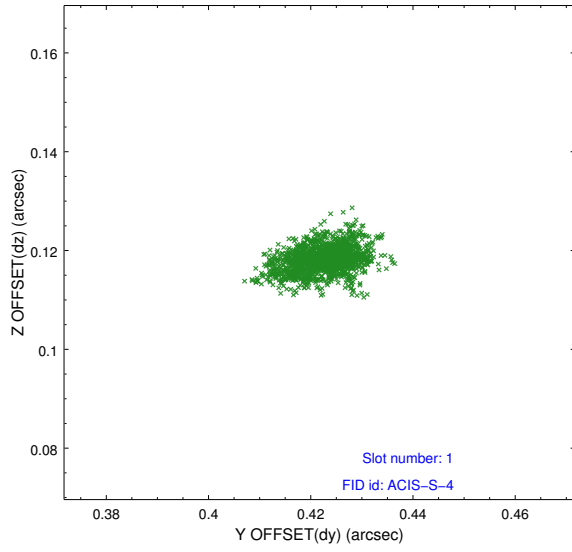


2.5 FID Slots

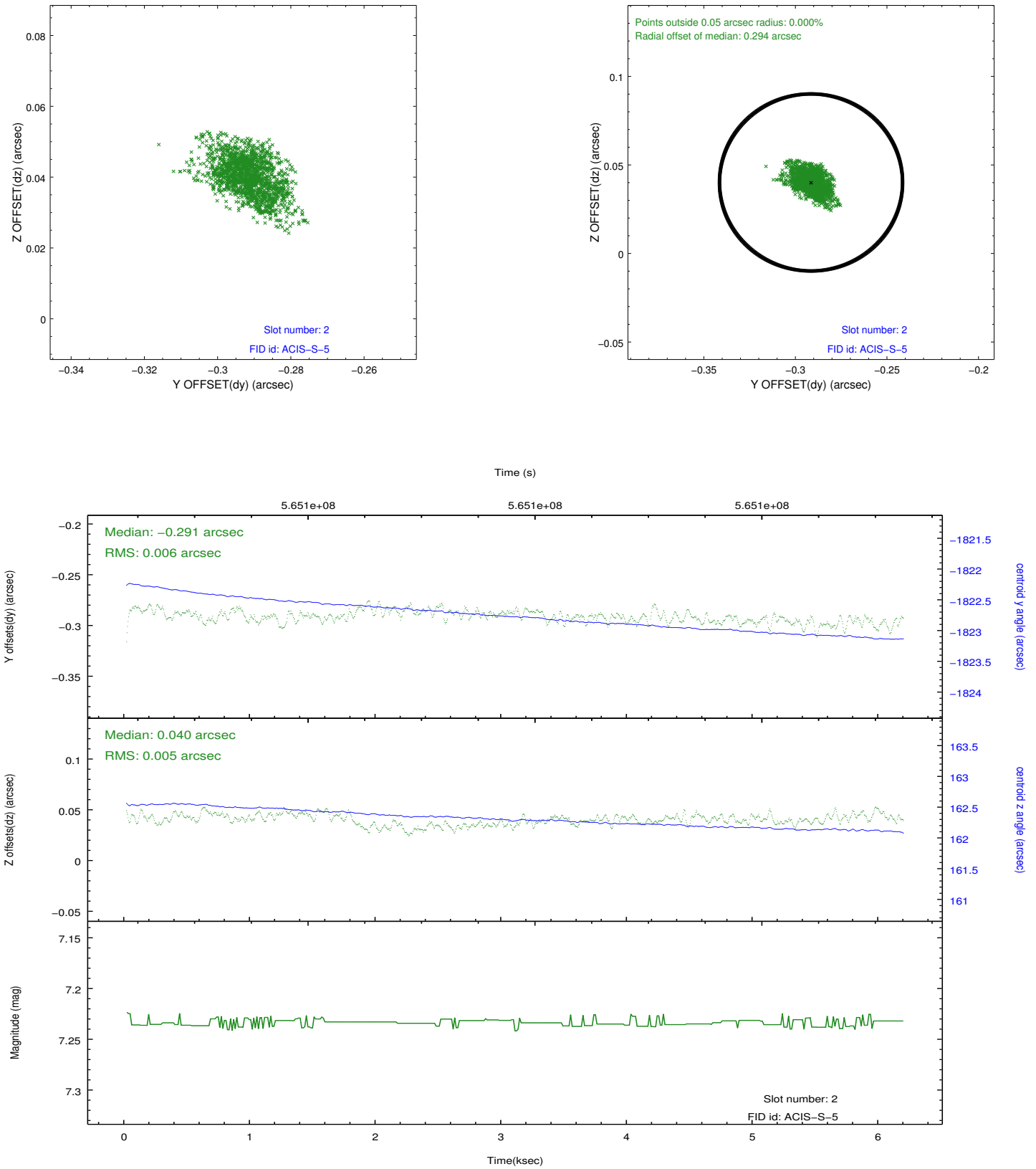
2.5.1 Slot 0



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)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9584000887871

A.2 Comments