

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18448 - L2 Version 2
Chandra X-Ray Center

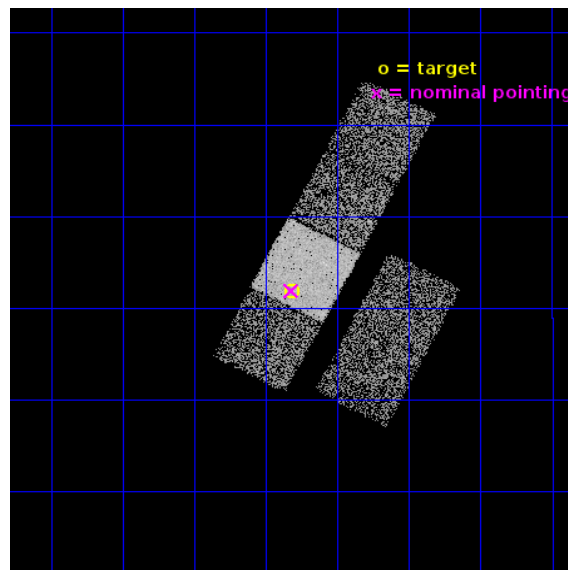
L2 Processing Date : Jan 15 2016

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1 Front

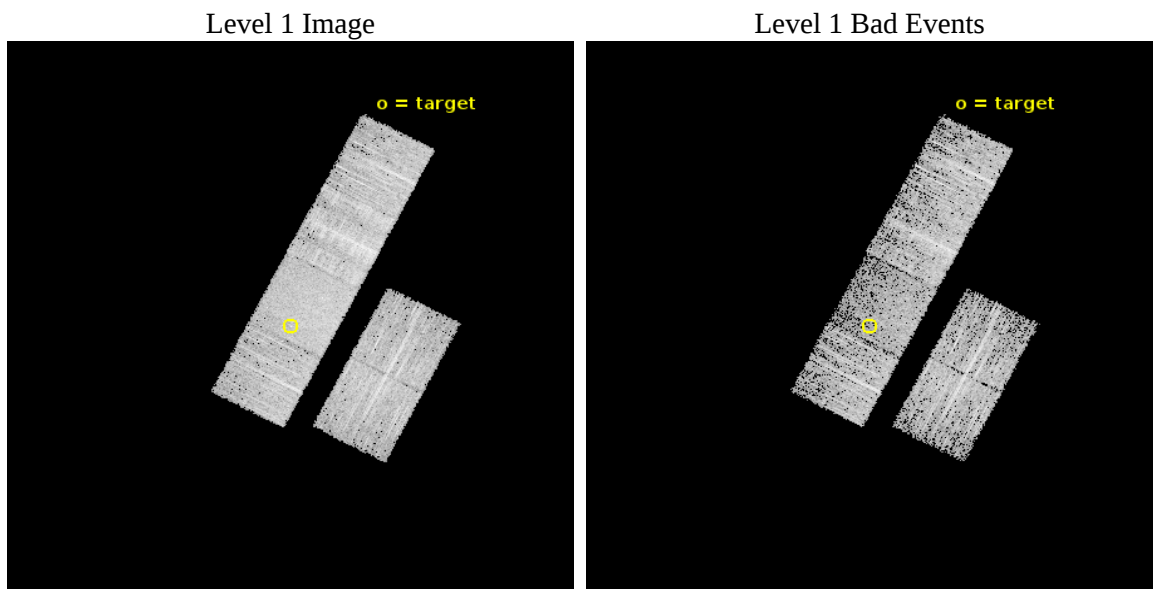
seq_num	703287	Sequence number
obs_id	18448	Observation id
title	Deciphering the X-ray Enhancement of Highly Radio-Loud Quasars in the Early Universe	Proposal title
observer	Dr. Gordon Garmire	Principal investigator
object	PMN J2314+0201	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	348.702917	Observer's specified target RA [deg]
dec_targ	2.030861	Observer's specified target Dec [deg]
ra_nom	348.70510484598	Nominal RA [deg]
dec_nom	2.0318276830399	Nominal Dec [deg]
roll_nom	297.52906477778	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5952.0000886917	Sum of GTIs [s]
livetime	5876.6322797045	Livetime [s]
ontime2	5952.0000886917	Sum of GTIs [s]
ontime3	5952.0000886917	Sum of GTIs [s]
ontime6	5952.0000886917	Sum of GTIs [s]
ontime7	5952.0000886917	Sum of GTIs [s]
ontime8	5952.0000886917	Sum of GTIs [s]
ontime9	5952.0000886917	Sum of GTIs [s]
l2events	31946	Number of level 2 events



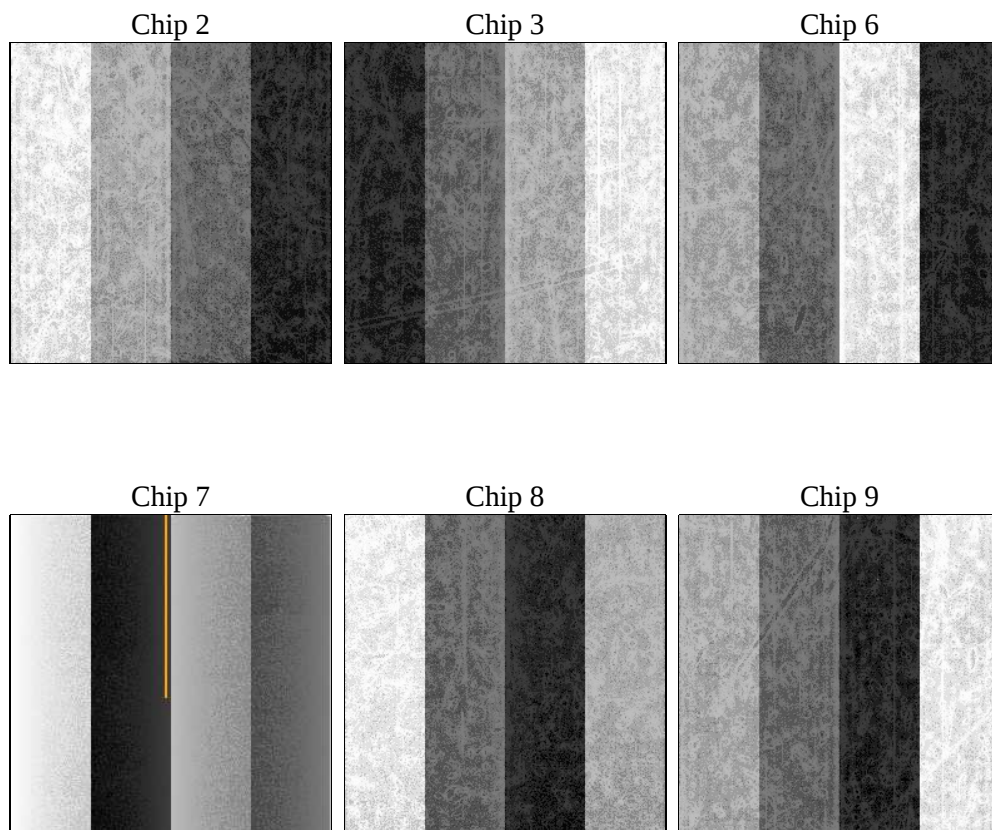
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	5952.0000886917	Sum of GTIs [s]
caldbver	4.7.0	 	ontime2	5952.0000886917	Sum of GTIs [s]
date	2016-01-15T19:03:18	Date and time of file creation	ontime3	5952.0000886917	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5952.0000886917	Sum of GTIs [s]
			ontime7	5952.0000886917	Sum of GTIs [s]
			ontime8	5952.0000886917	Sum of GTIs [s]
			ontime9	5952.0000886917	Sum of GTIs [s]
			l1events	200197	Number of level 1 events

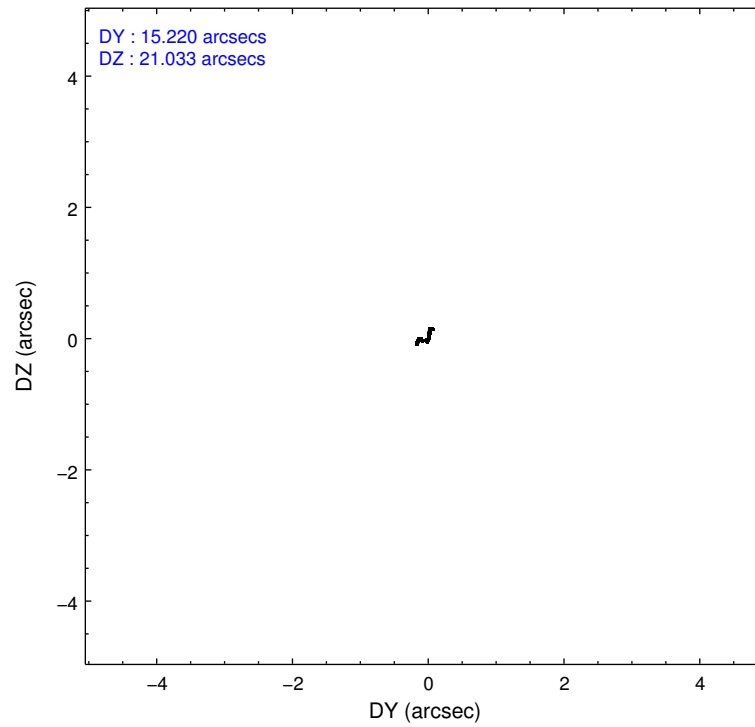
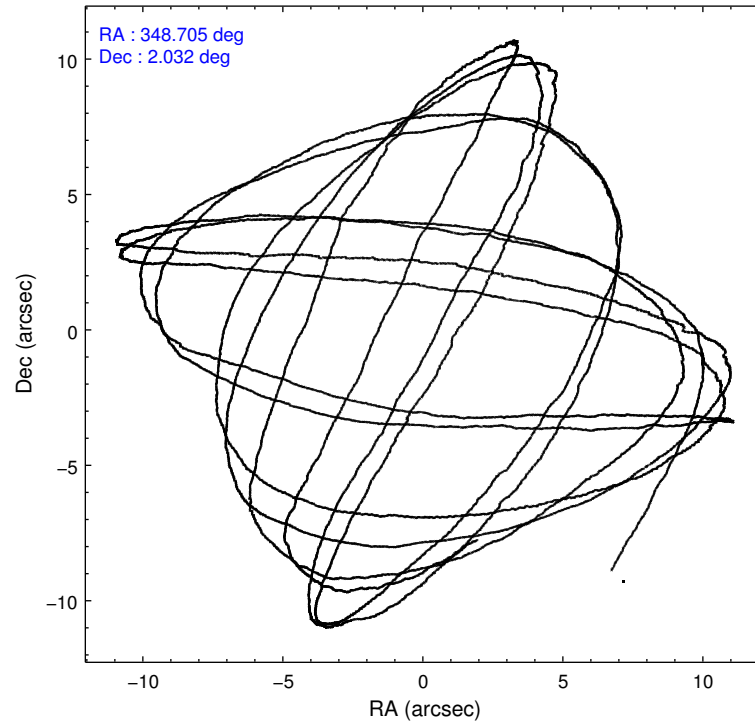
2.1.4 Events

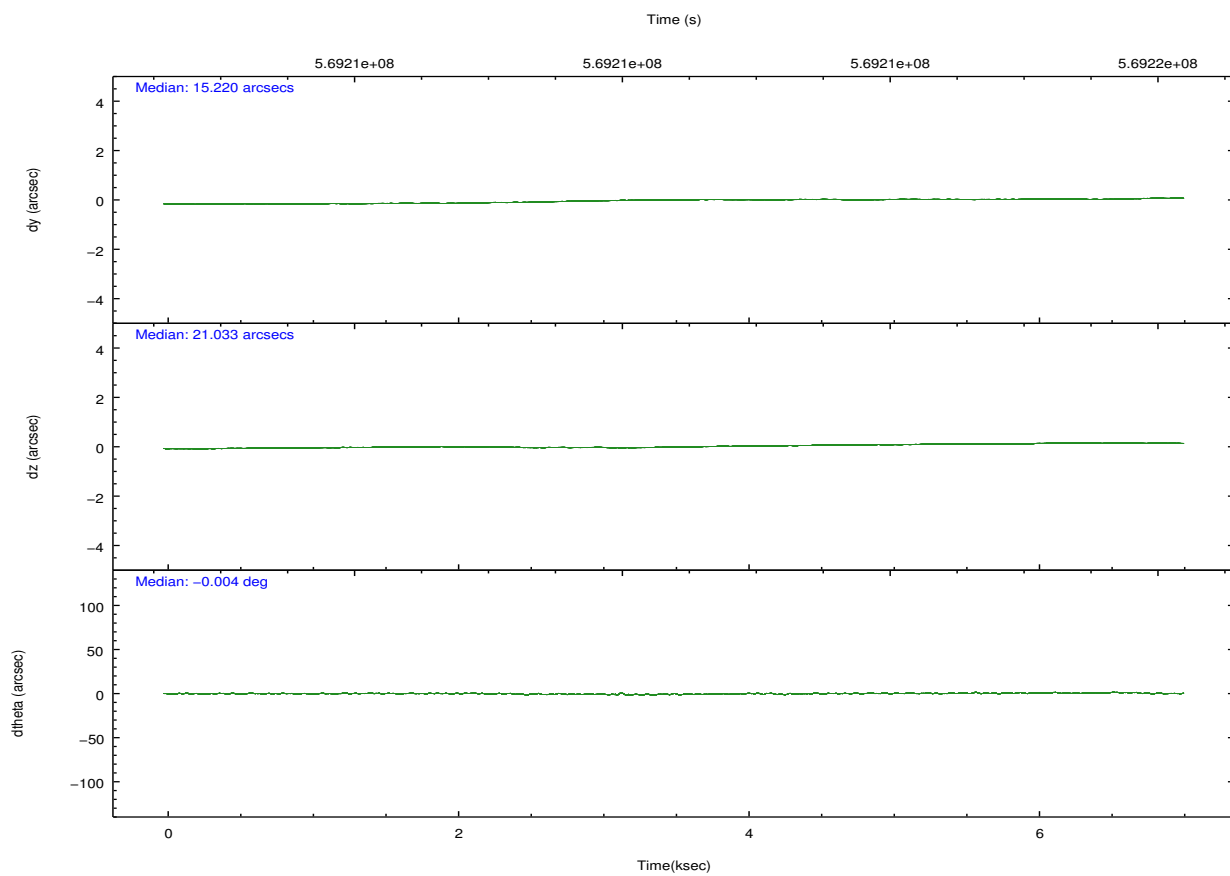
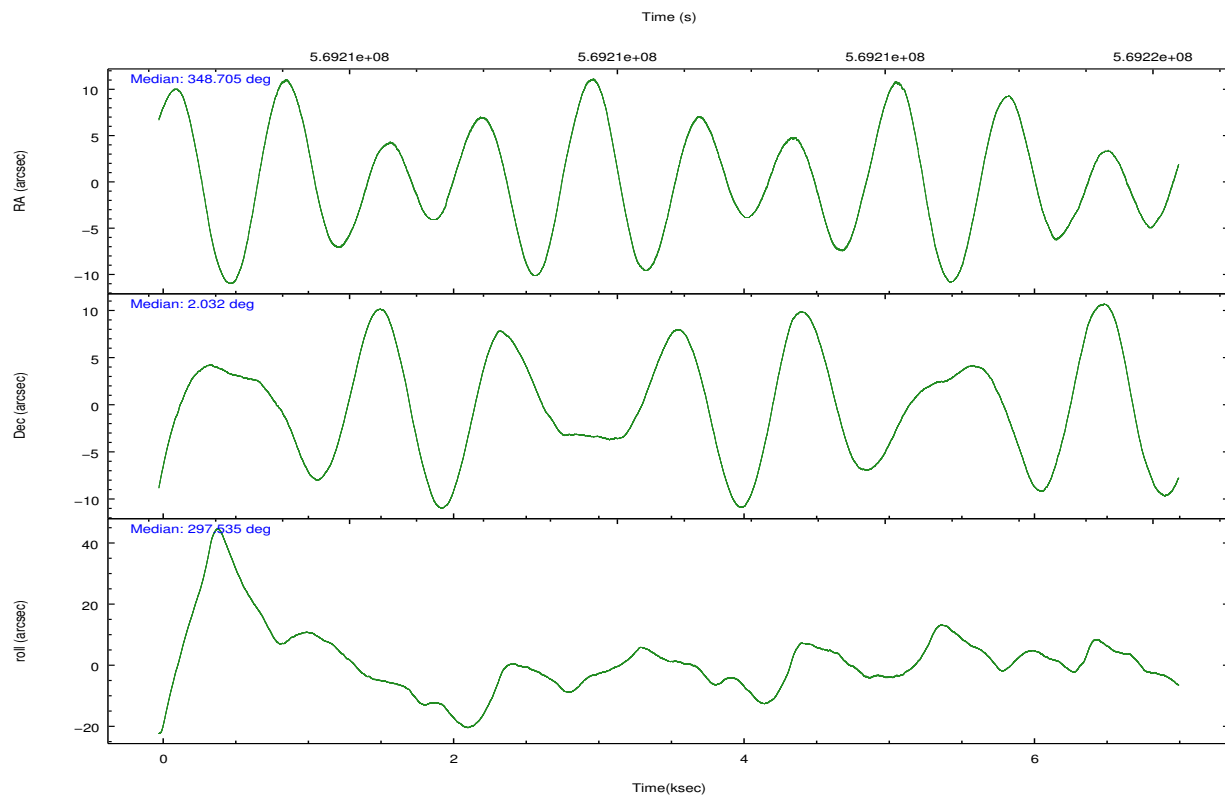
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	30559	28436	30610	36147	41762	32683	grade 0 events	1211	1144	1226	1652	3404	1210
rejected events	27207	25262	26984	19030	29562	29102		3%	4%	4%	4%	8%	3%
rejected %	89%	88%	88%	52%	70%	89%	grade 1 events	15	13	20	60	40	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	845	726	885	3715	3018	772
								2%	2%	2%	10%	7%	2%
							grade 3 events	336	329	352	1511	1328	384
								1%	1%	1%	4%	3%	1%
							grade 4 events	346	368	342	1514	1219	376
								1%	1%	1%	4%	2%	1%
							grade 5 events	1138	1325	1313	3740	2100	1616
								3%	4%	4%	10%	5%	4%
							grade 6 events	614	611	824	8736	3233	840
								2%	2%	2%	24%	7%	2%
							grade 7 events	26054	23920	25648	15219	27420	27456
								85%	84%	83%	42%	65%	84%

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	348.681739	348.7051048459815	CCD I2 on	O1	Y
[deg] Pointing Dec	2.046271	2.031827683039896	CCD I3 on	O2	Y
[deg] Pointing Roll	297.373293	297.529064777785	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)	569209890.184000	569208507.50884	CCD S5 on	Y	Y
Observation start date	2016-01-15T01:50:22	2016-01-15T01:28:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	569215890.184000	569216955.55932	On-chip summing requested	N	N
Observation end date	2016-01-15T03:30:22	2016-01-15T03:49:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



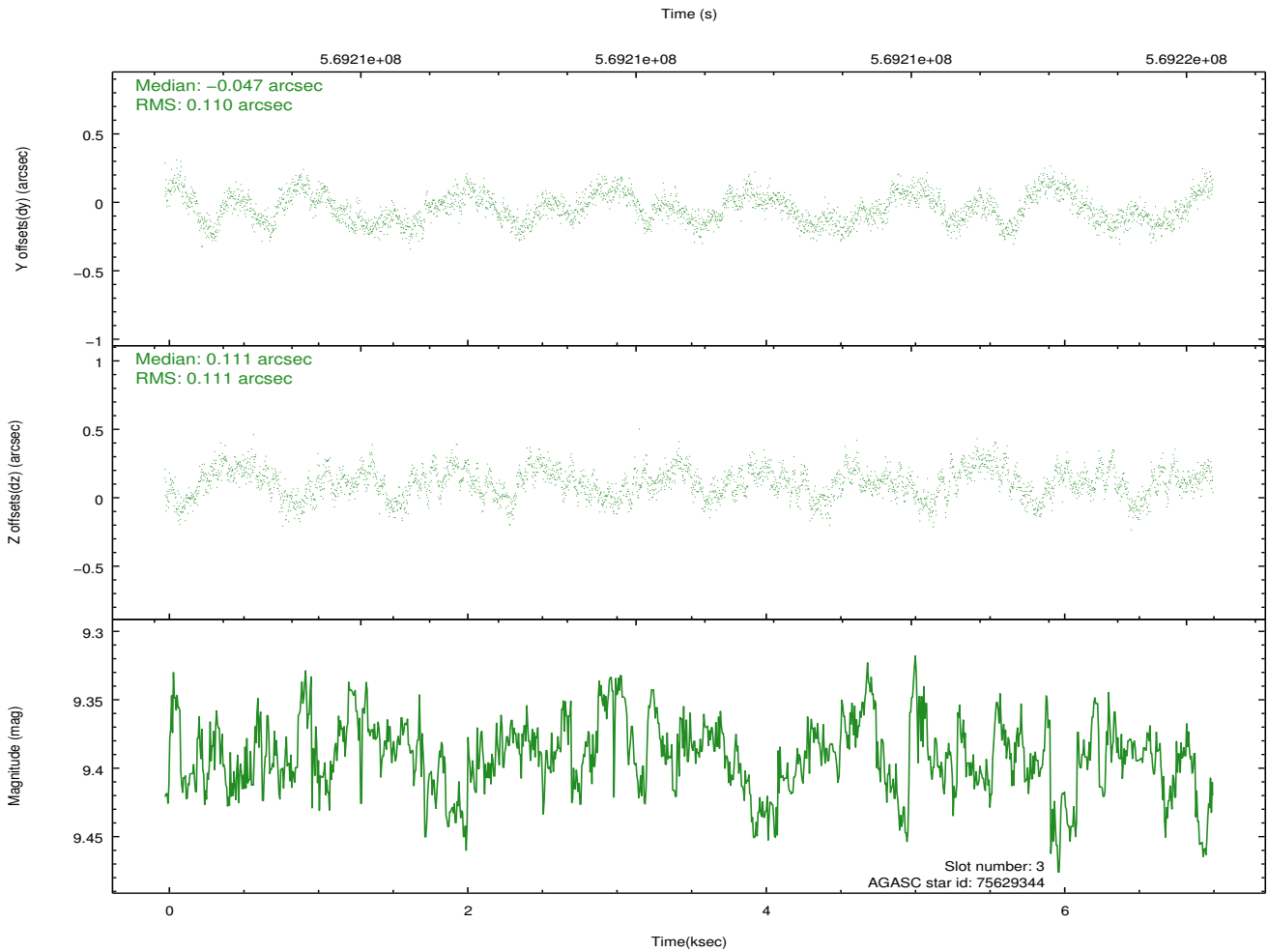
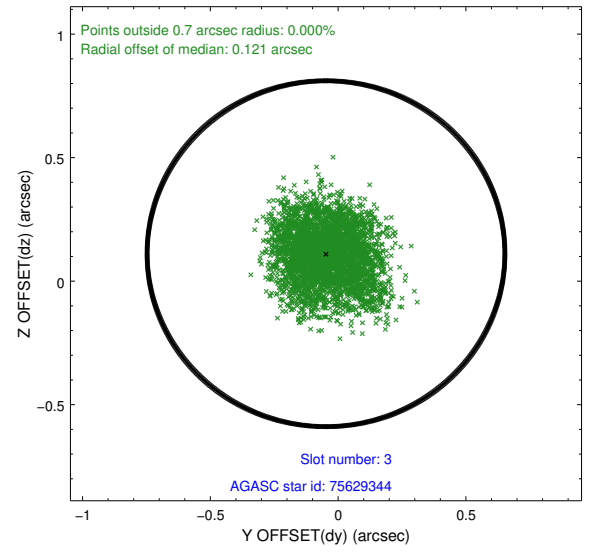
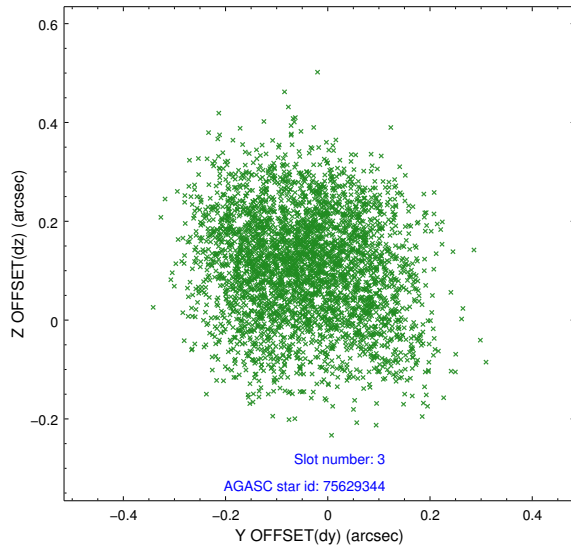


Slot Statistics

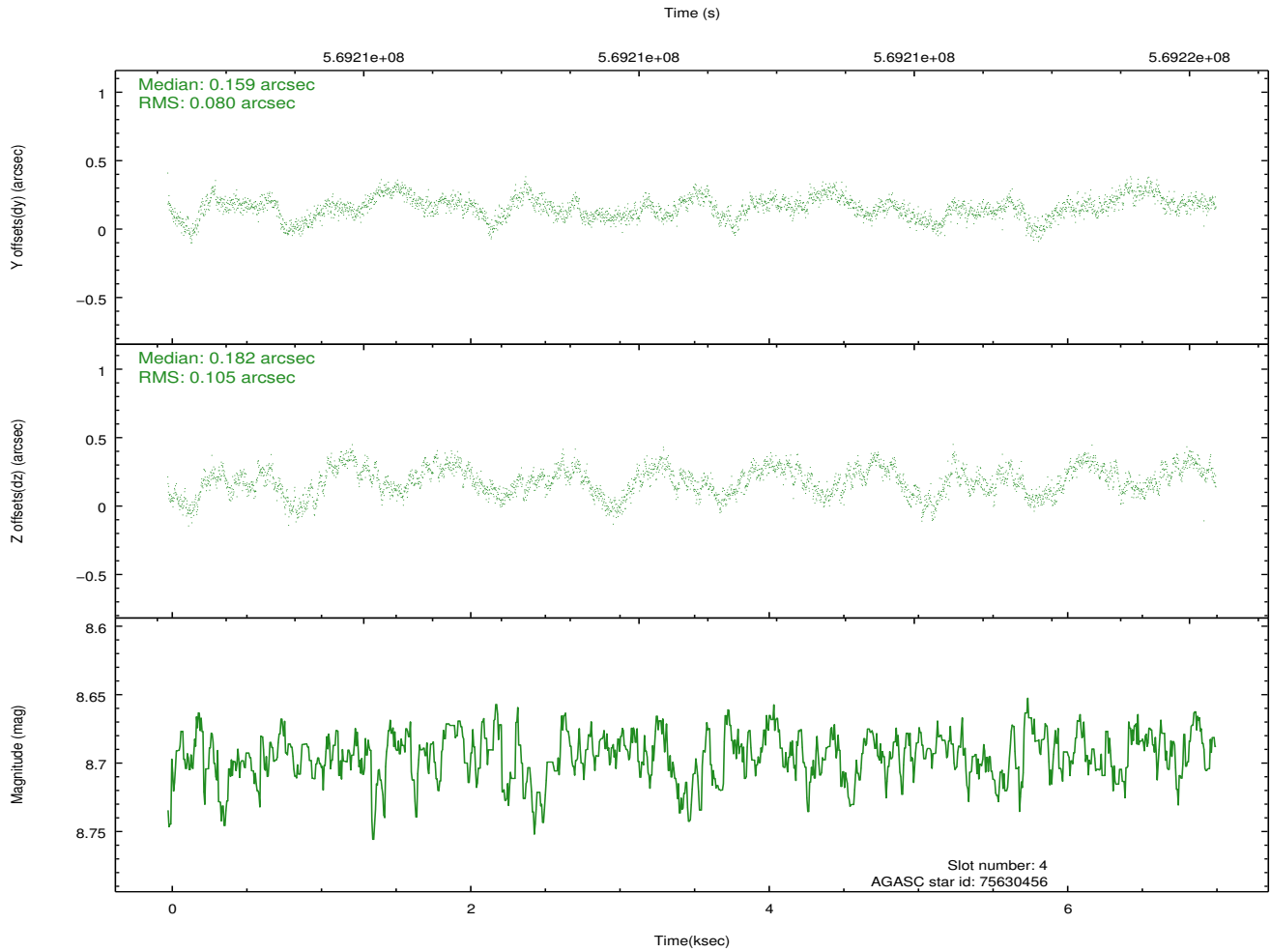
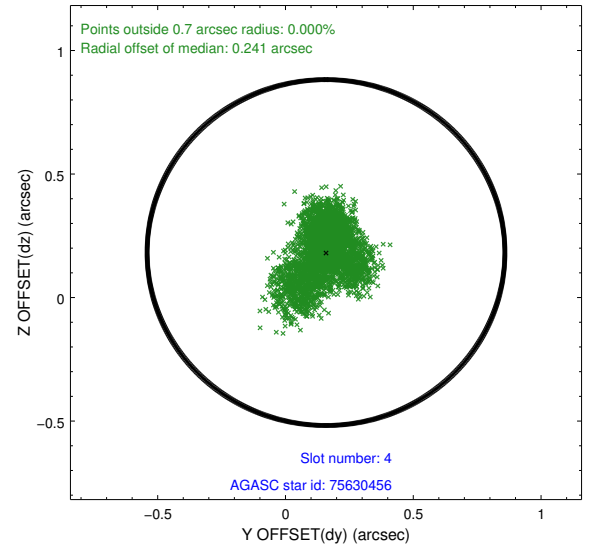
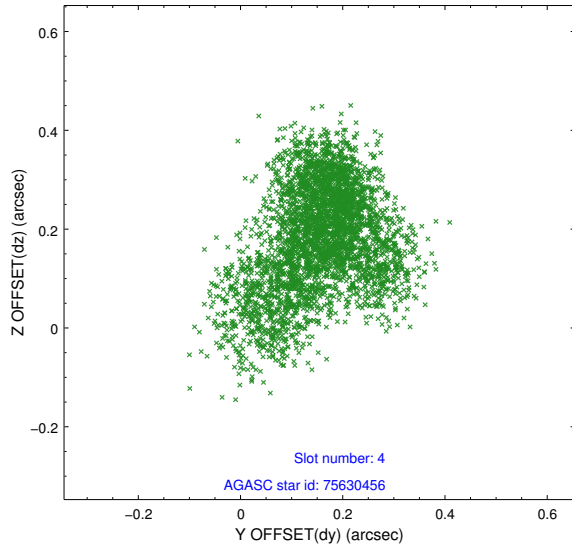
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1713	-0.195	-0.088	0.008	0.012	0.000000	0.000000	-768.35	-1742.64
1	FID		ACIS-S-4	7.21	1713	0.405	0.118	0.007	0.014	0.000000	0.000000	2145.16	165.19
2	FID		ACIS-S-5	7.23	1713	-0.242	-0.021	0.008	0.013	0.000000	0.000000	-1820.18	159.66
3	GUIDE	used	75629344	9.39	3424	-0.047	0.111	0.171	0.260	348.274724	1.670469	528.48	-1922.41
4	GUIDE	used	75630456	8.69	3425	0.159	0.182	0.141	0.227	348.079556	2.009358	-875.26	-1983.77
5	GUIDE	used	75632136	9.33	3424	-0.029	0.030	0.180	0.265	348.615685	1.859320	489.10	-520.68
6	GUIDE	used	75636448	9.27	3426	-0.084	-0.315	0.165	0.262	349.332143	2.086201	948.91	2144.08
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

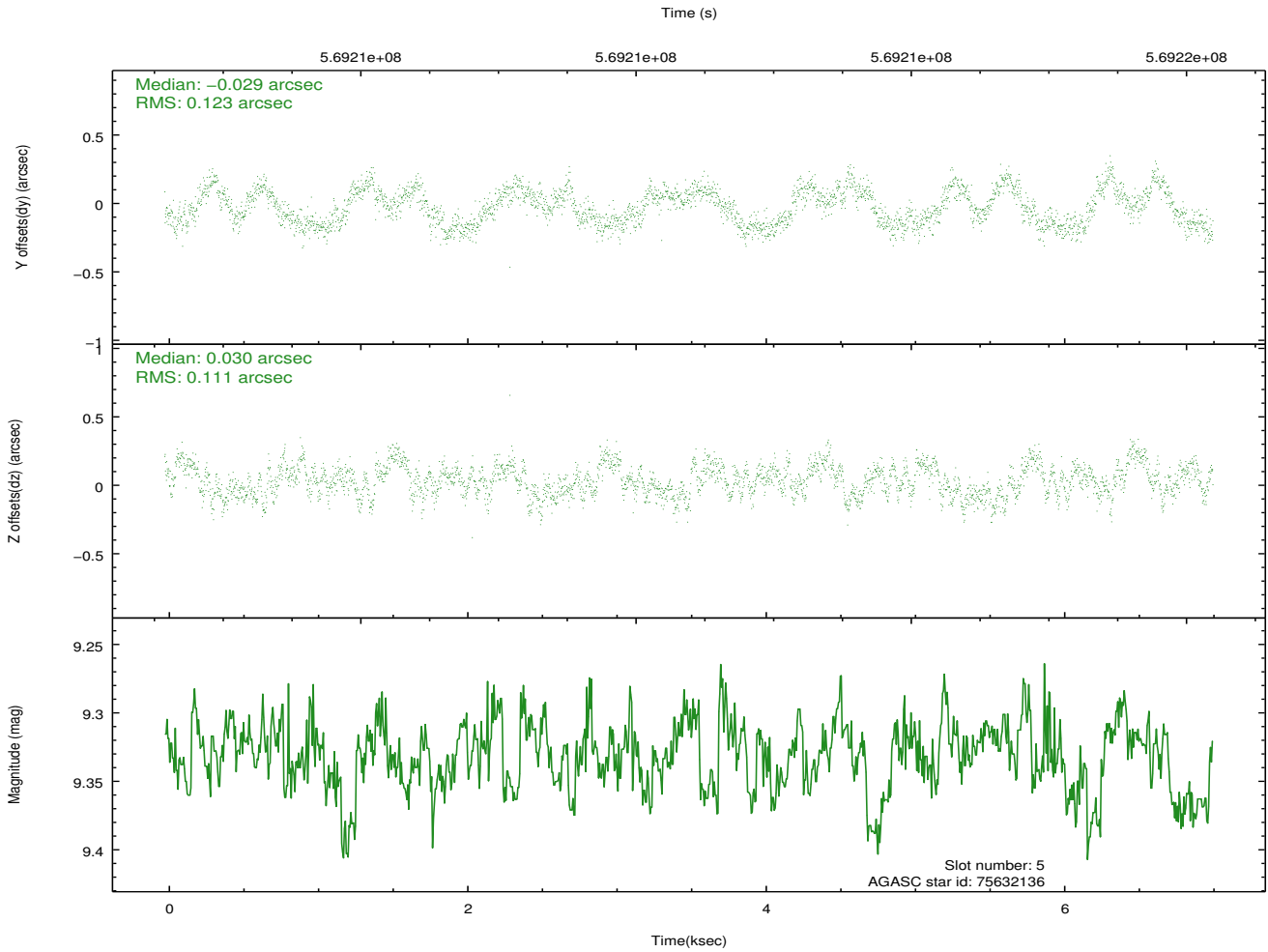
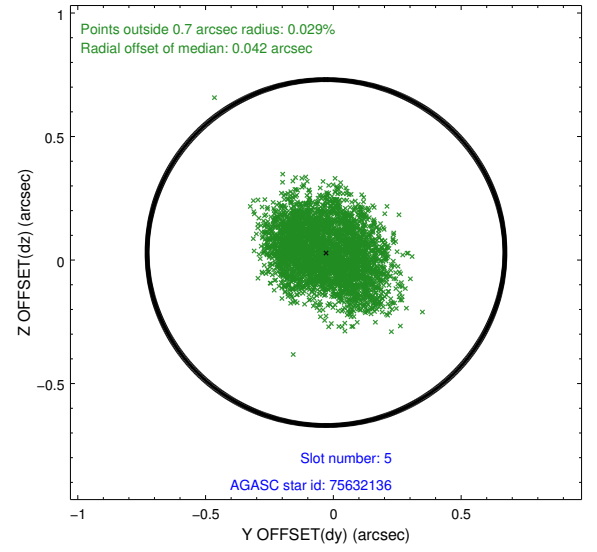
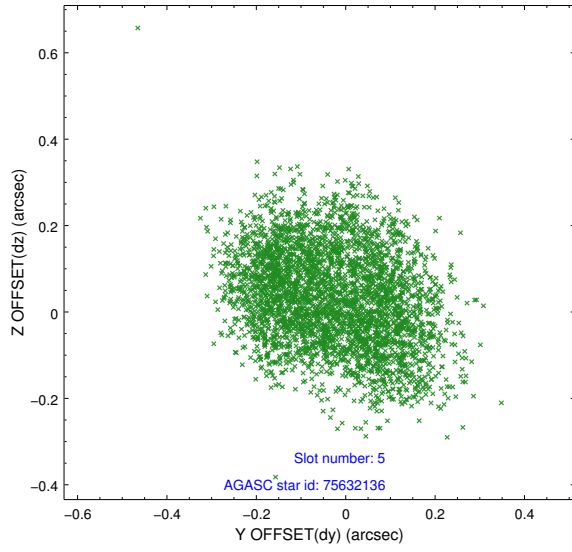
2.4.1 Slot 3



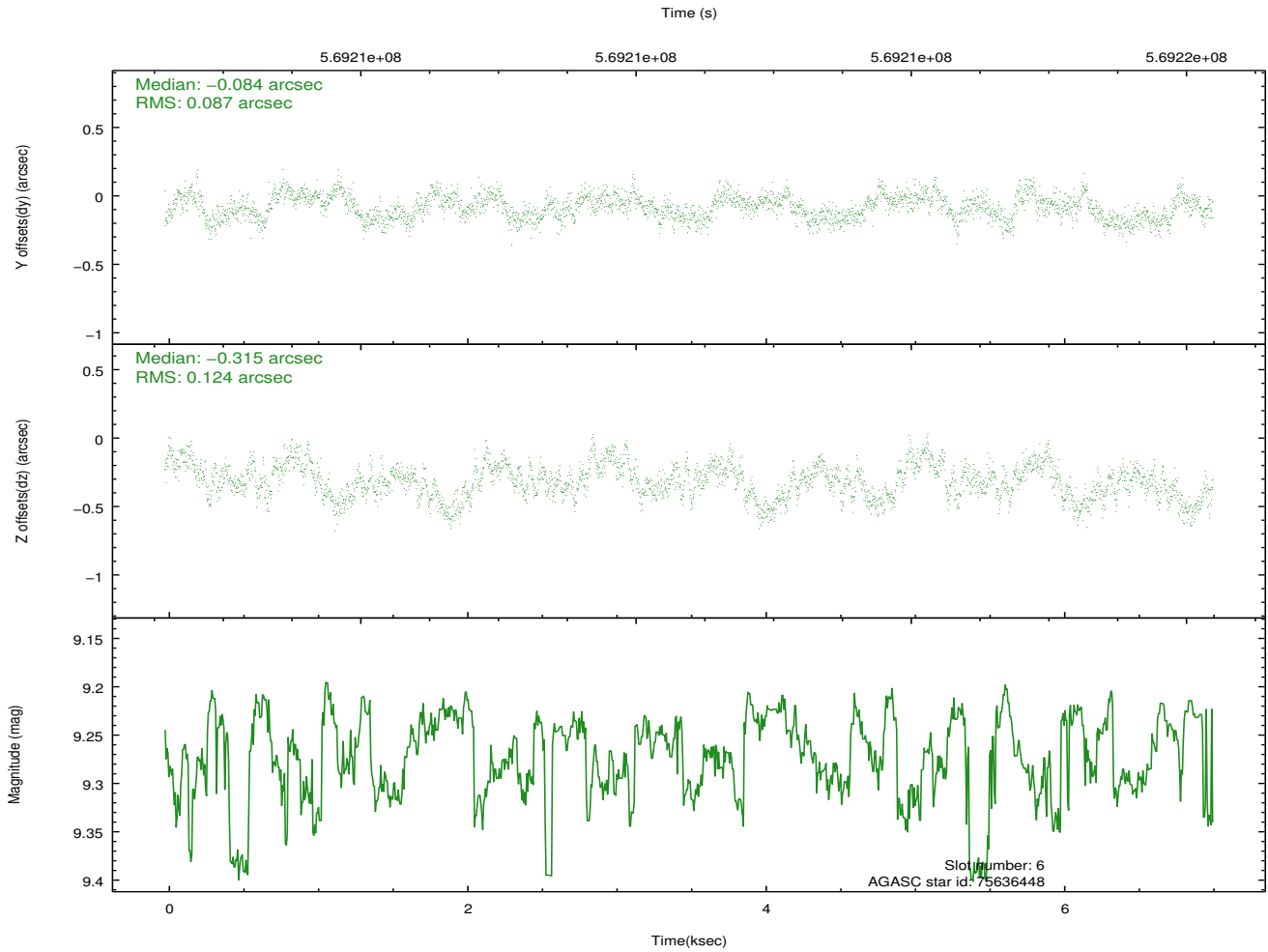
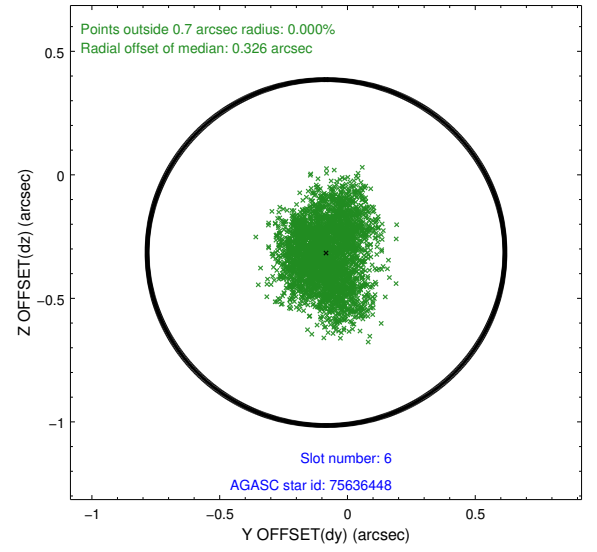
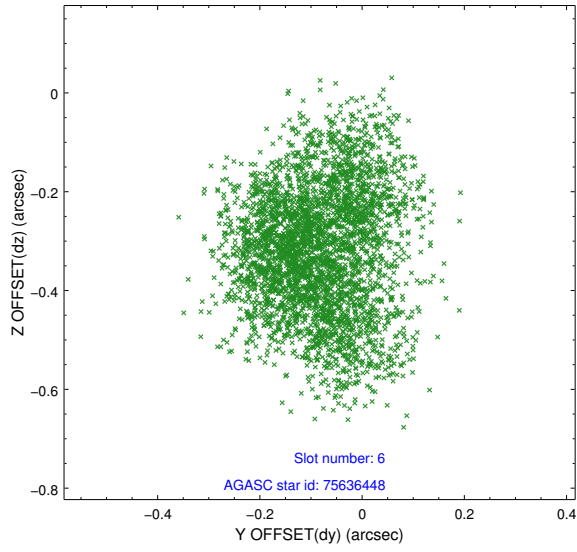
2.4.2 Slot 4



2.4.3 Slot 5

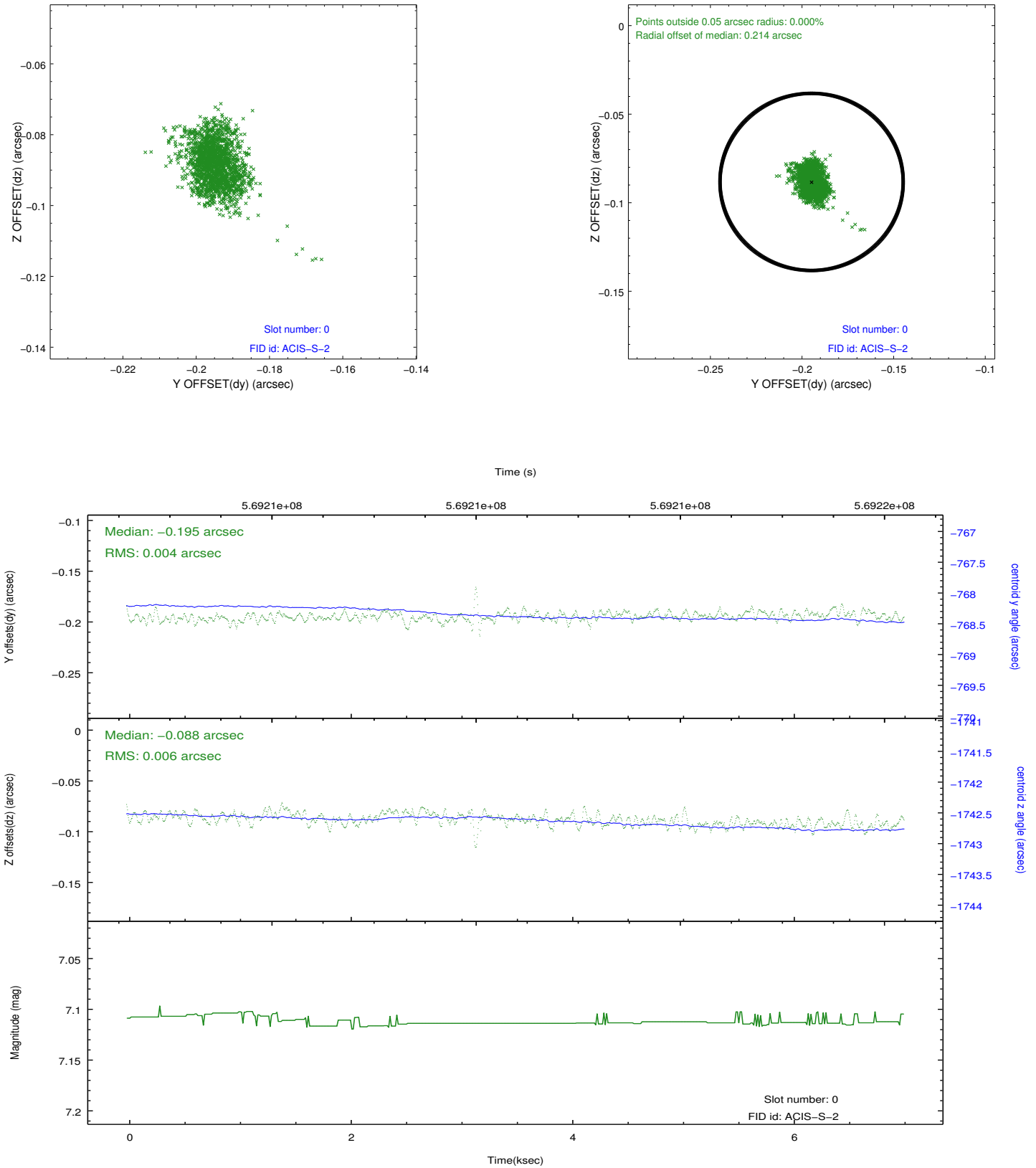


2.4.4 Slot 6

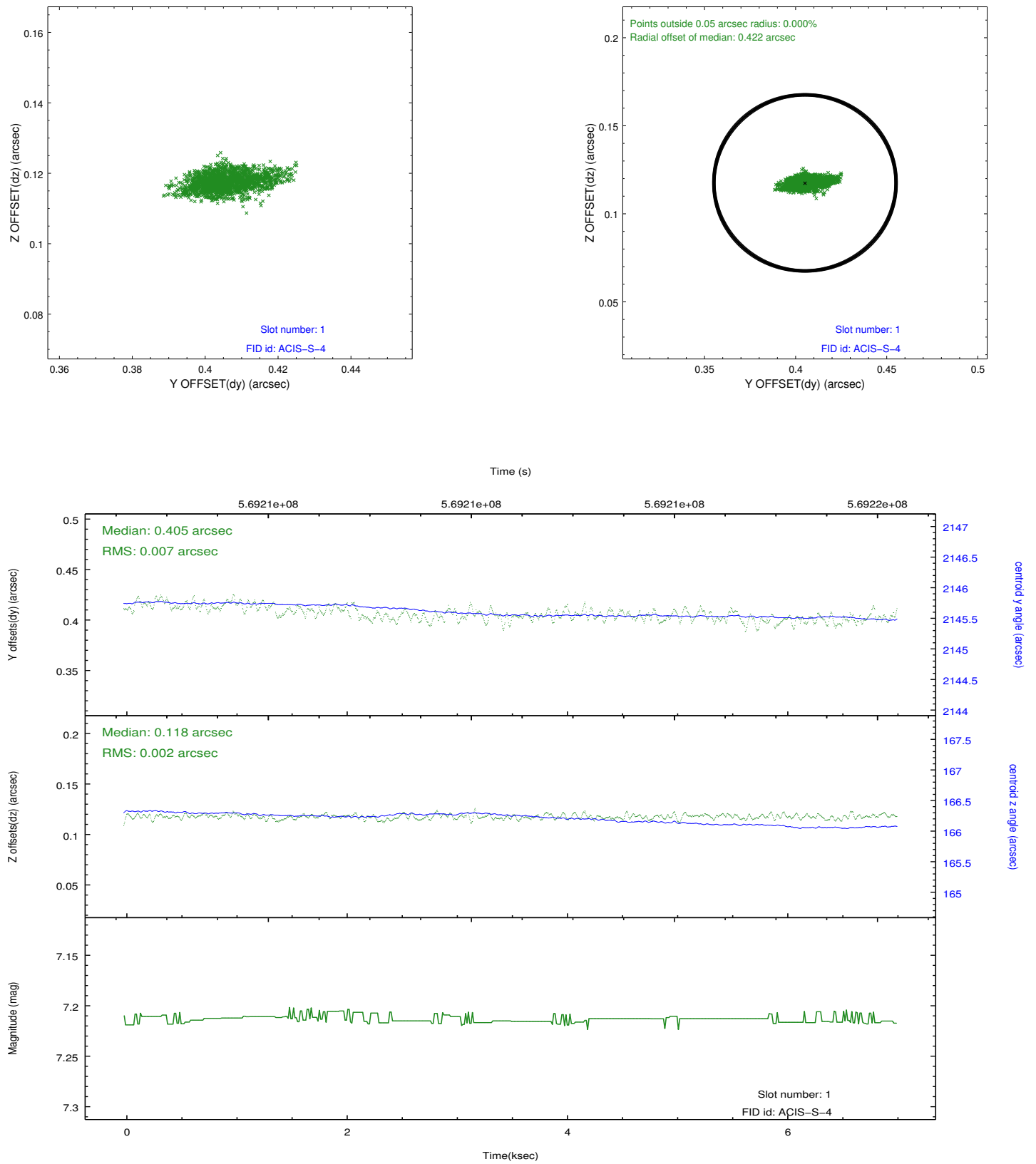


2.5 FID Slots

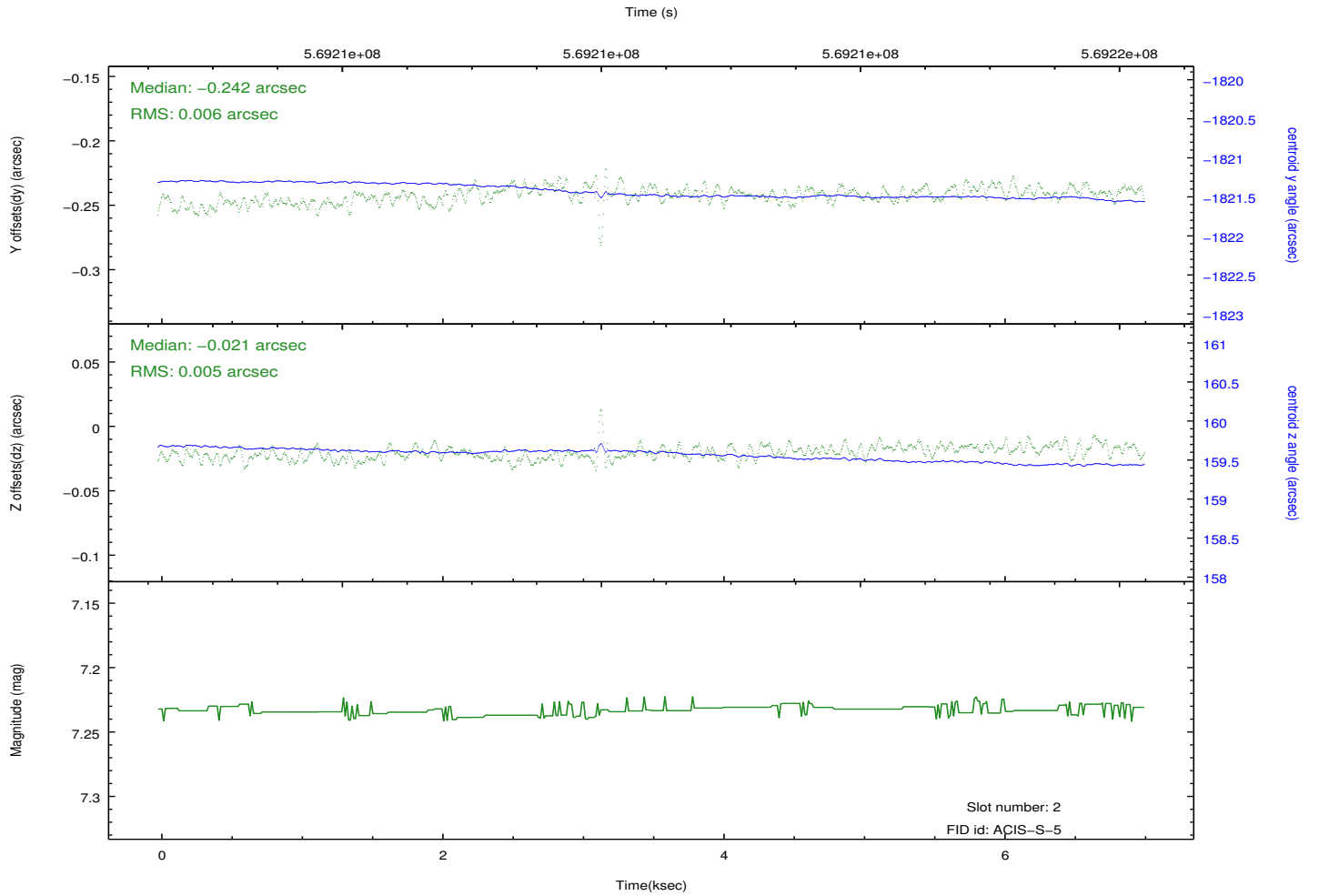
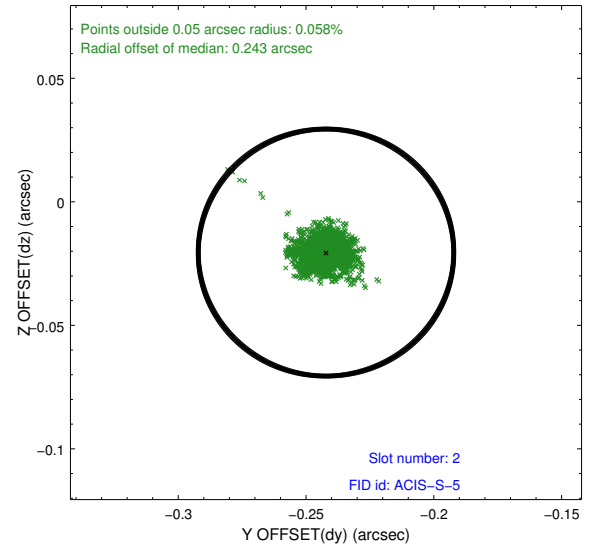
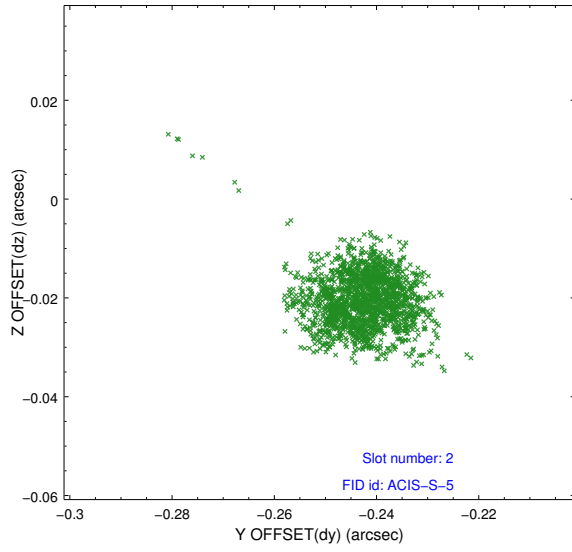
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9520000886917

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.