

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17071 - L2 Version 2
Chandra X-Ray Center

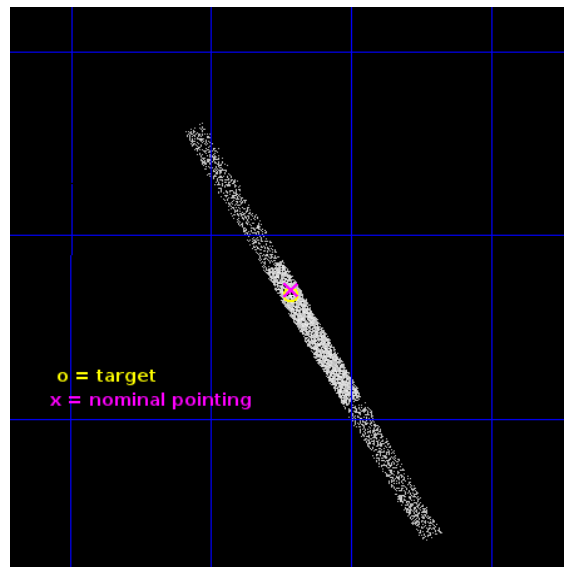
L2 Processing Date : Nov 13 2015

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1 Front

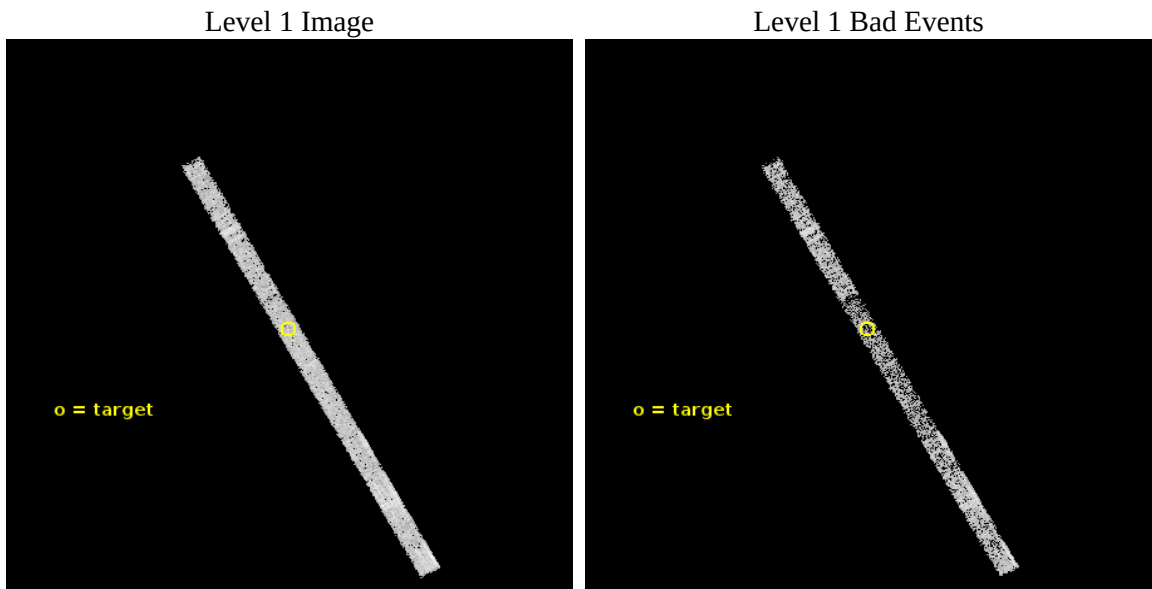
seq_num	703075	Sequence number
obs_id	17071	Observation id
title	MERGER-TRIGGERED NUCLEAR ACTIVITY AT SUB-KILOPARSEC SCALES	Proposa
observer	Dr. Giuseppina Fabbiano	Principal investigator
object	NGC3773	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.554167	Observer's specified target RA [deg]
dec_targ	12.111917	Observer's specified target Dec [deg]
ra_nom	174.55318601439	Nominal RA [deg]
dec_nom	12.117270349931	Nominal Dec [deg]
roll_nom	60.706665763029	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10104.000401616	Sum of GTIs [s]
livetime	9457.1325361439	Livetime [s]
ontime6	10104.000401616	Sum of GTIs [s]
ontime7	10104.000401616	Sum of GTIs [s]
ontime8	10103.998338461	Sum of GTIs [s]
l2events	6309	Number of level 2 events



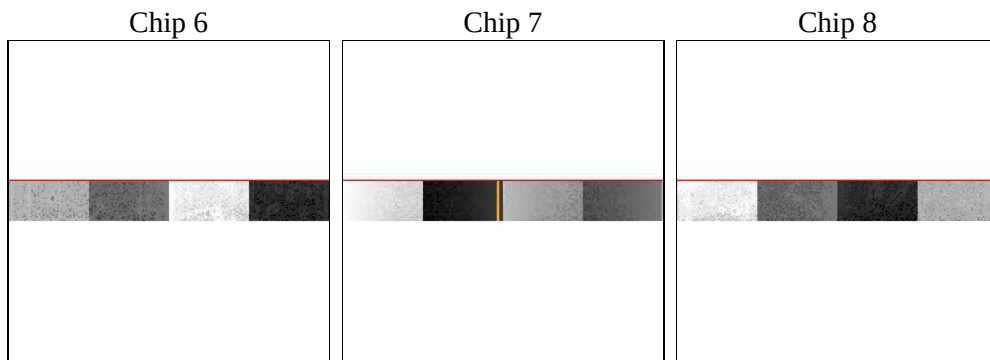
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	10104.000401616	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime6	10104.000401616	Sum of GTIs [s]
date	2015-11-13T18:48:29	Date and time of file creation	ontime7	10104.000401616	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	10103.998338461	Sum of GTIs [s]
			l1events	31938	Number of level 1 events

2.1.4 Events

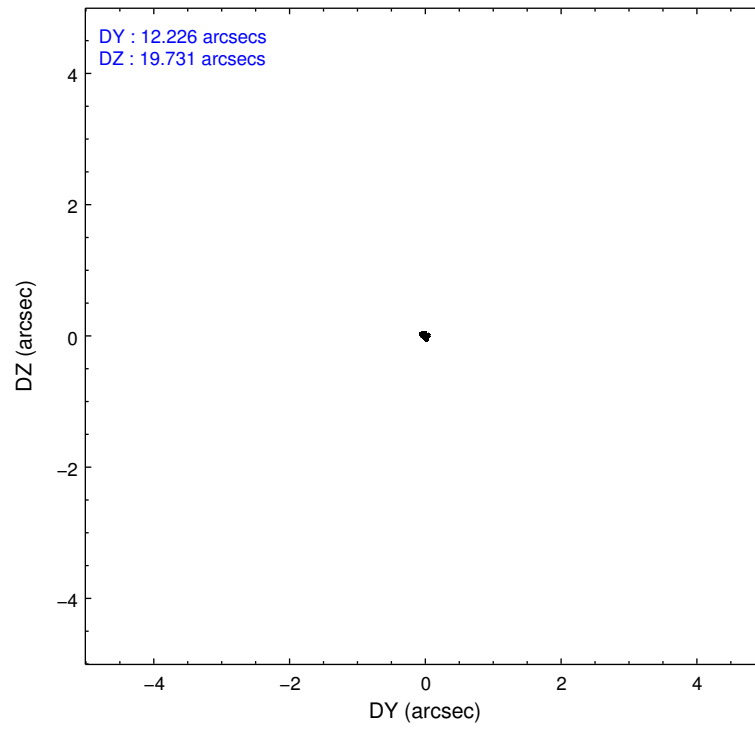
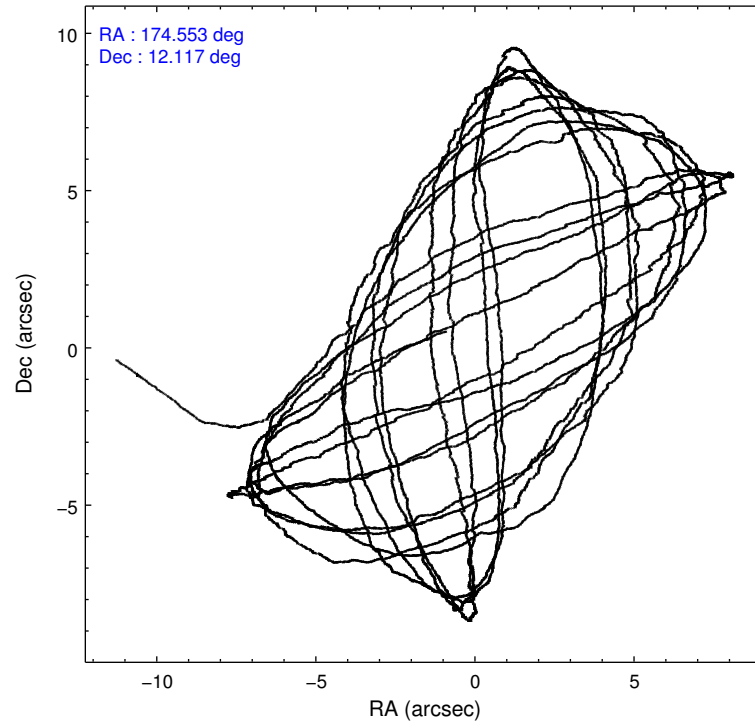
	ccd 6	ccd 7	ccd 8
level 1 events	9204	9710	13024
rejected events	8138	5066	9852
rejected %	88%	52%	75%

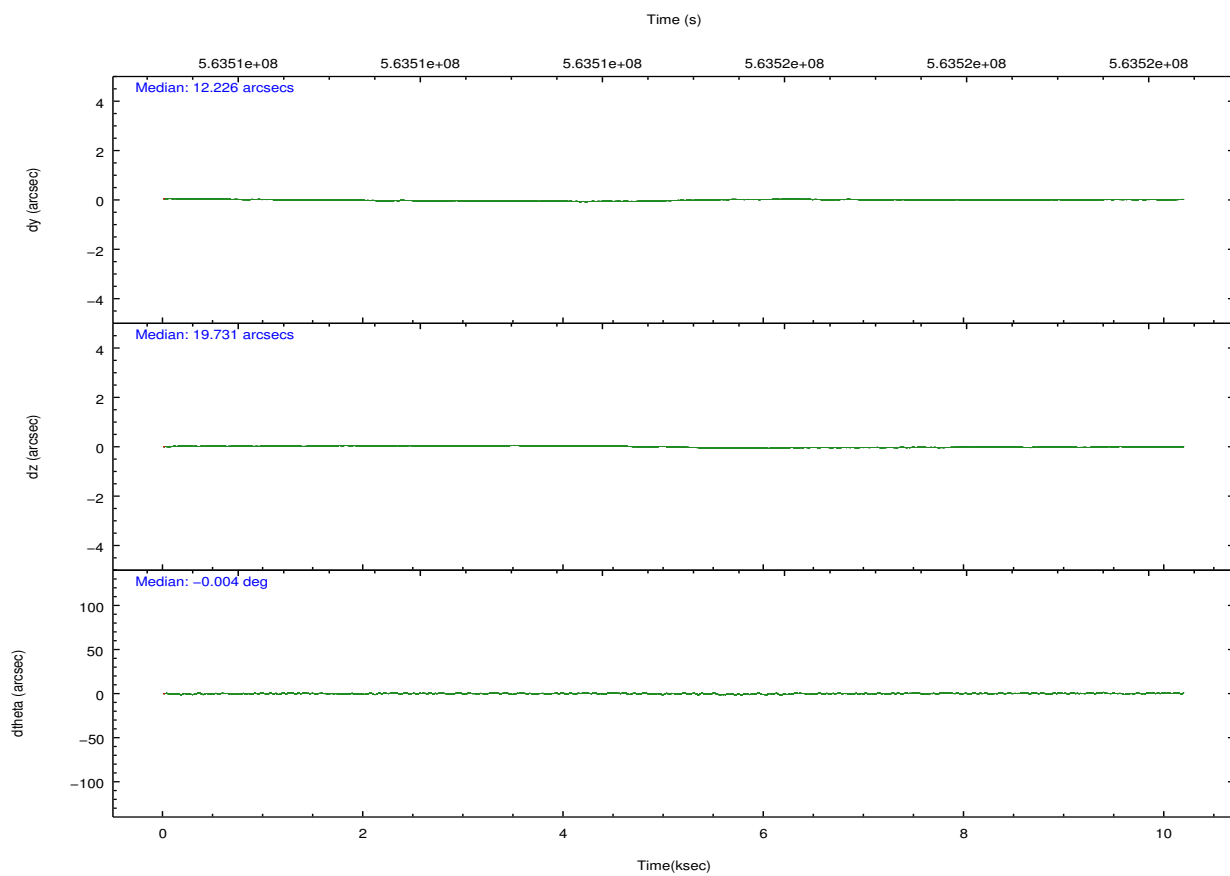
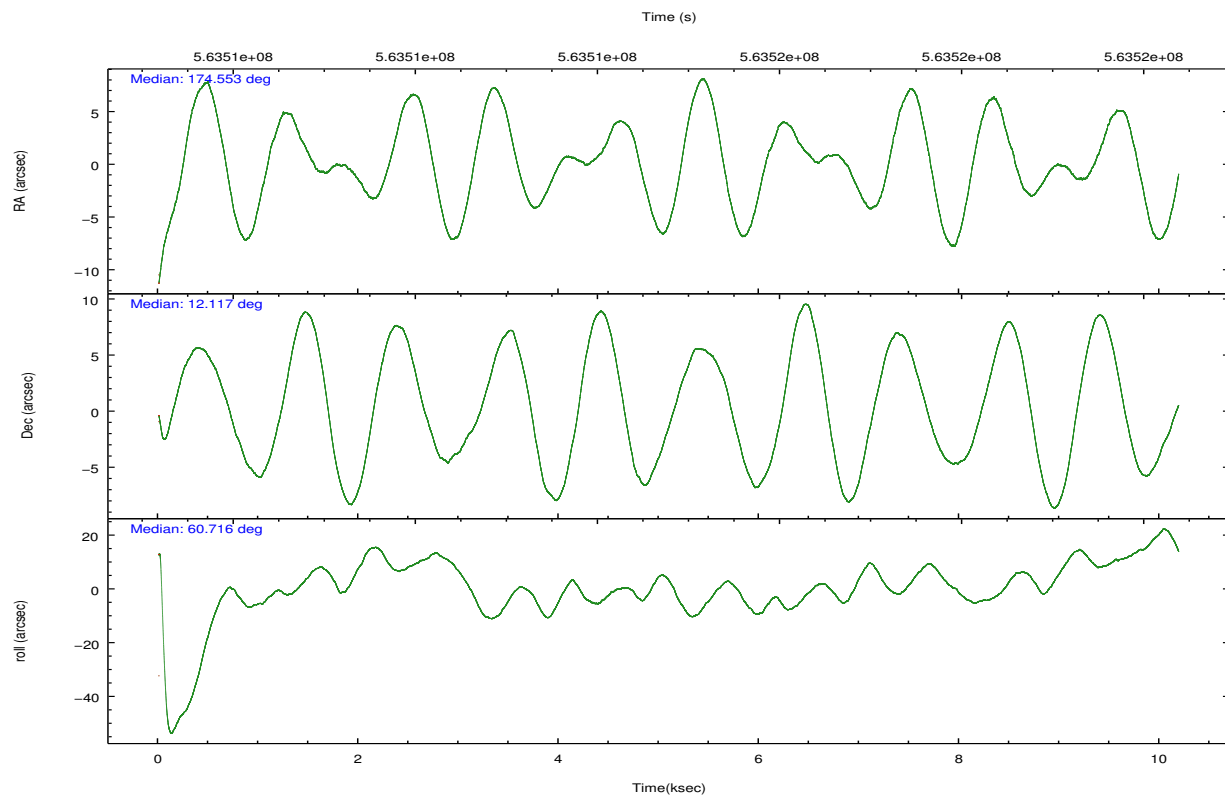
	ccd 6	ccd 7	ccd 8
grade 0 events	284	477	760
	3%	4%	5%
grade 1 events	5	13	3
	0%	0%	0%
grade 2 events	196	979	687
	2%	10%	5%
grade 3 events	181	567	326
	1%	5%	2%
grade 4 events	175	509	343
	1%	5%	2%
grade 5 events	344	1083	533
	3%	11%	4%
grade 6 events	230	2115	1056
	2%	21%	8%
grade 7 events	7789	3967	9316
	84%	40%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	174.553950	174.5531860143941	CCD I2 on	N	N
[deg] Pointing Dec	12.089835	12.11727034993132	CCD I3 on	N	N
[deg] Pointing Roll	60.549778	60.70666576302894	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	O2	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	O1	Y
[s] Observation start time (MET)	563509896.184000	563508667.19814	CCD S5 on	N	N
Observation start date	2015-11-10T02:30:28	2015-11-10T02:11:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	563519896.184000	563520805.24883	On-chip summing requested	N	N
Observation end date	2015-11-10T05:17:08	2015-11-10T05:33:25	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.6

2.3 Aspect



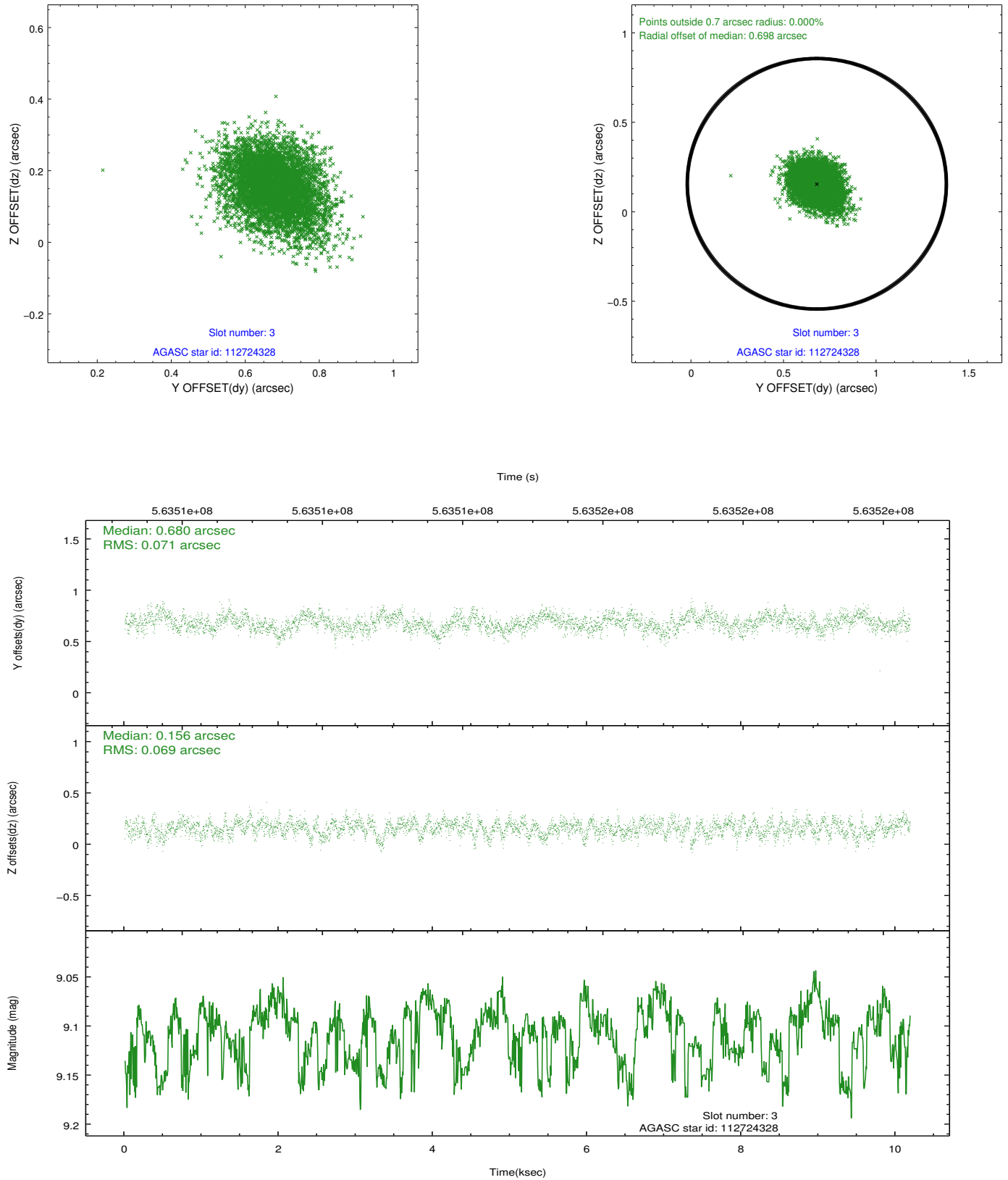


Slot Statistics

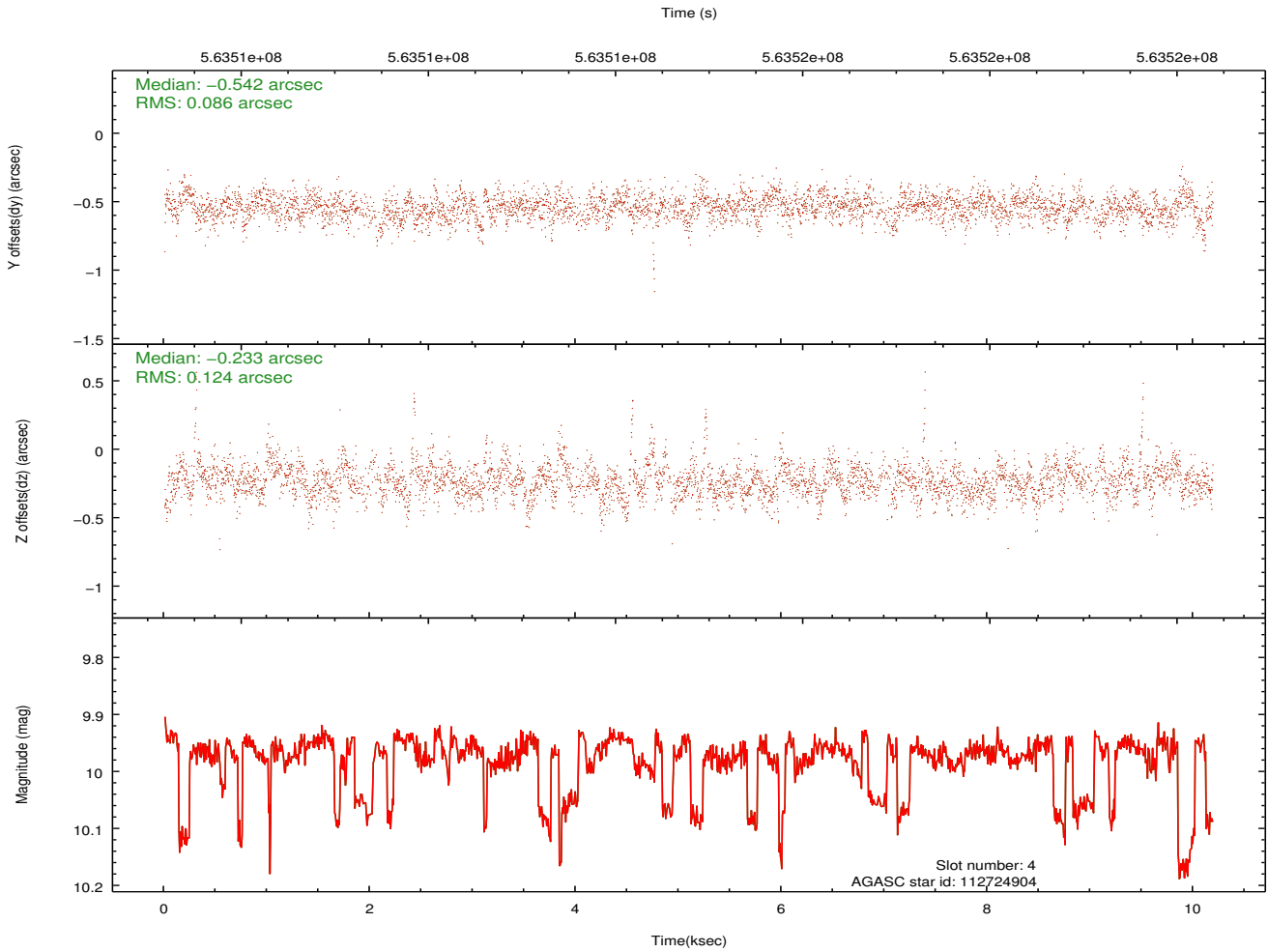
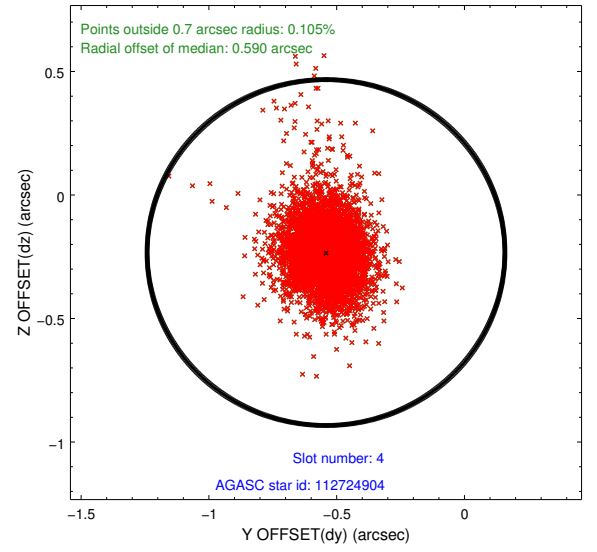
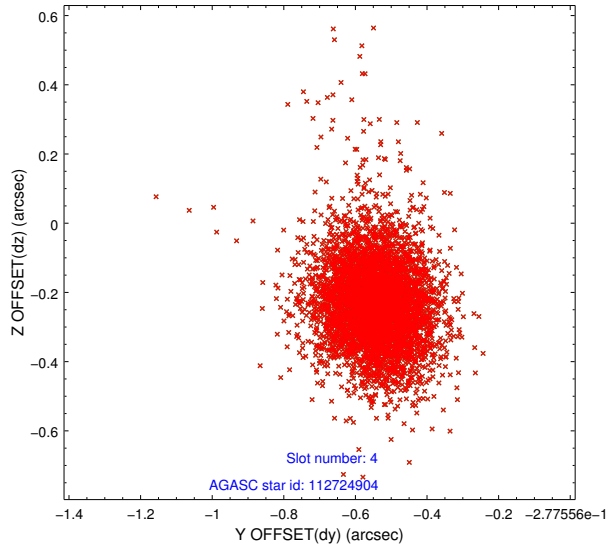
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	2485	-0.181	-0.106	0.006	0.011	0.000000	0.000000	-765.31	-1741.25
1	FID		ACIS-S-4	7.21	2485	0.223	0.099	0.007	0.011	0.000000	0.000000	2148.15	166.84
2	FID		ACIS-S-6	7.34	2485	-0.071	0.015	0.008	0.014	0.000000	0.000000	397.47	804.75
3	GUIDE	used	112724328	9.11	4968	0.680	0.156	0.104	0.171	174.177895	11.669806	-1967.52	411.56
4	BAD	used	112724904	9.97	4744	-0.542	-0.233	0.146	0.259	174.781695	11.545986	-1308.89	-1661.64
5	GUIDE	used	112725080	8.20	4968	0.017	0.498	0.088	0.143	174.160740	12.177260	-406.28	1360.94
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	112726152	8.00	4967	-0.176	-0.442	0.098	0.165	173.707978	11.825303	-2291.20	2129.90

2.4 Star Slots

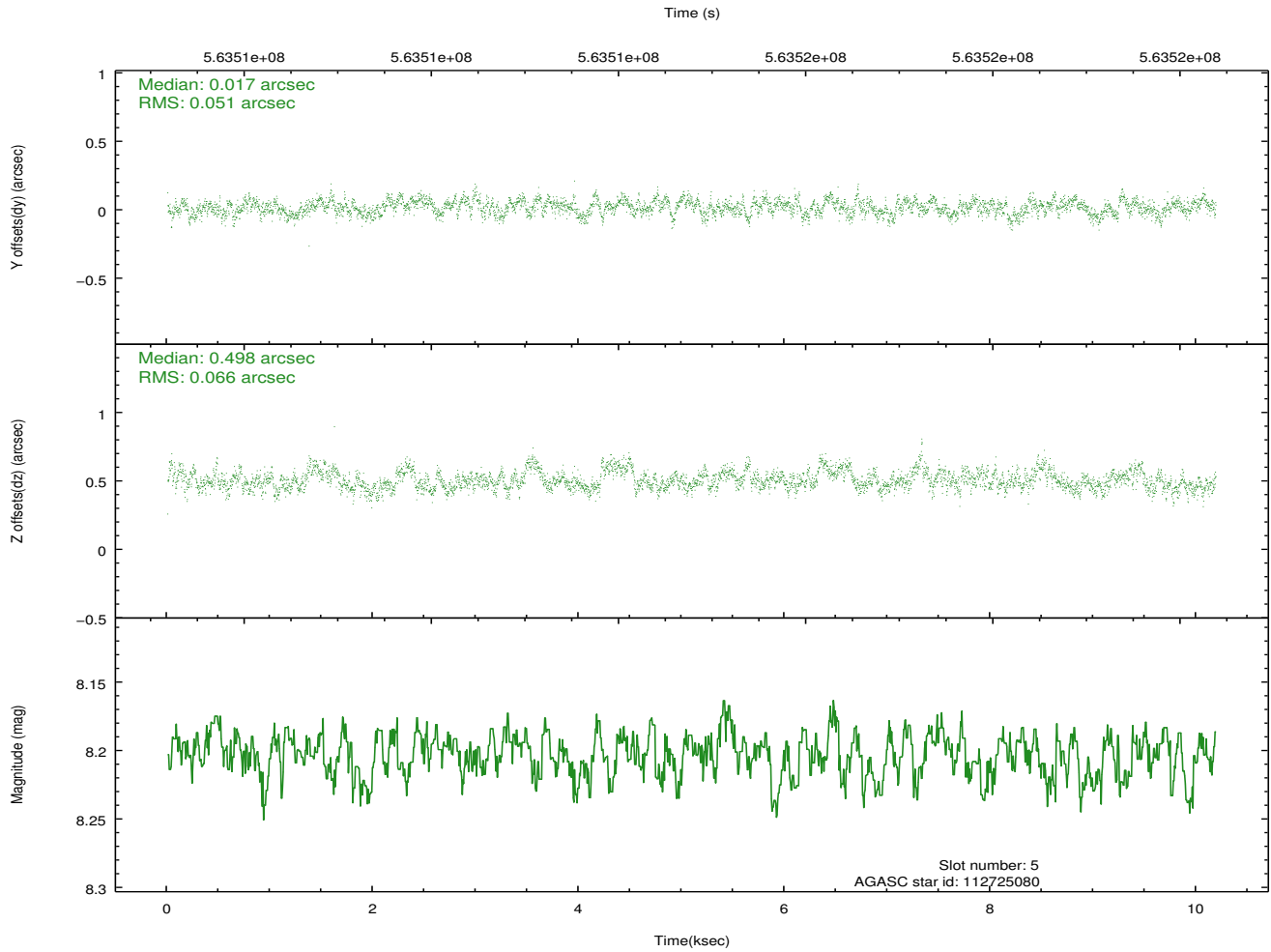
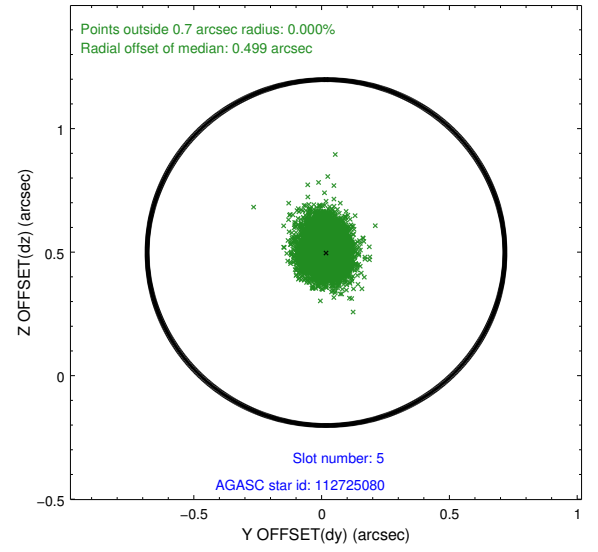
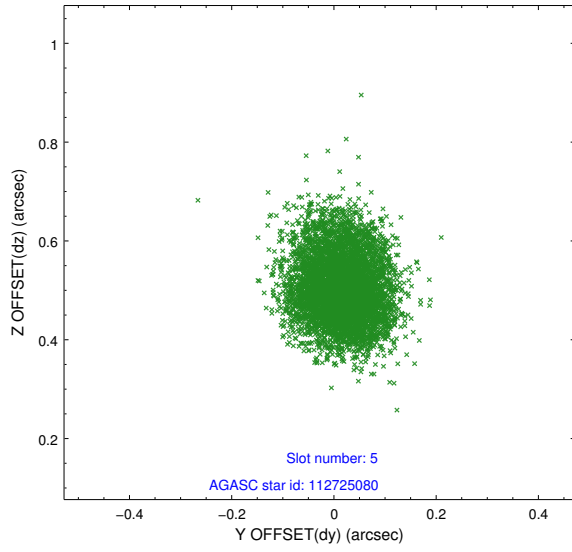
2.4.1 Slot 3



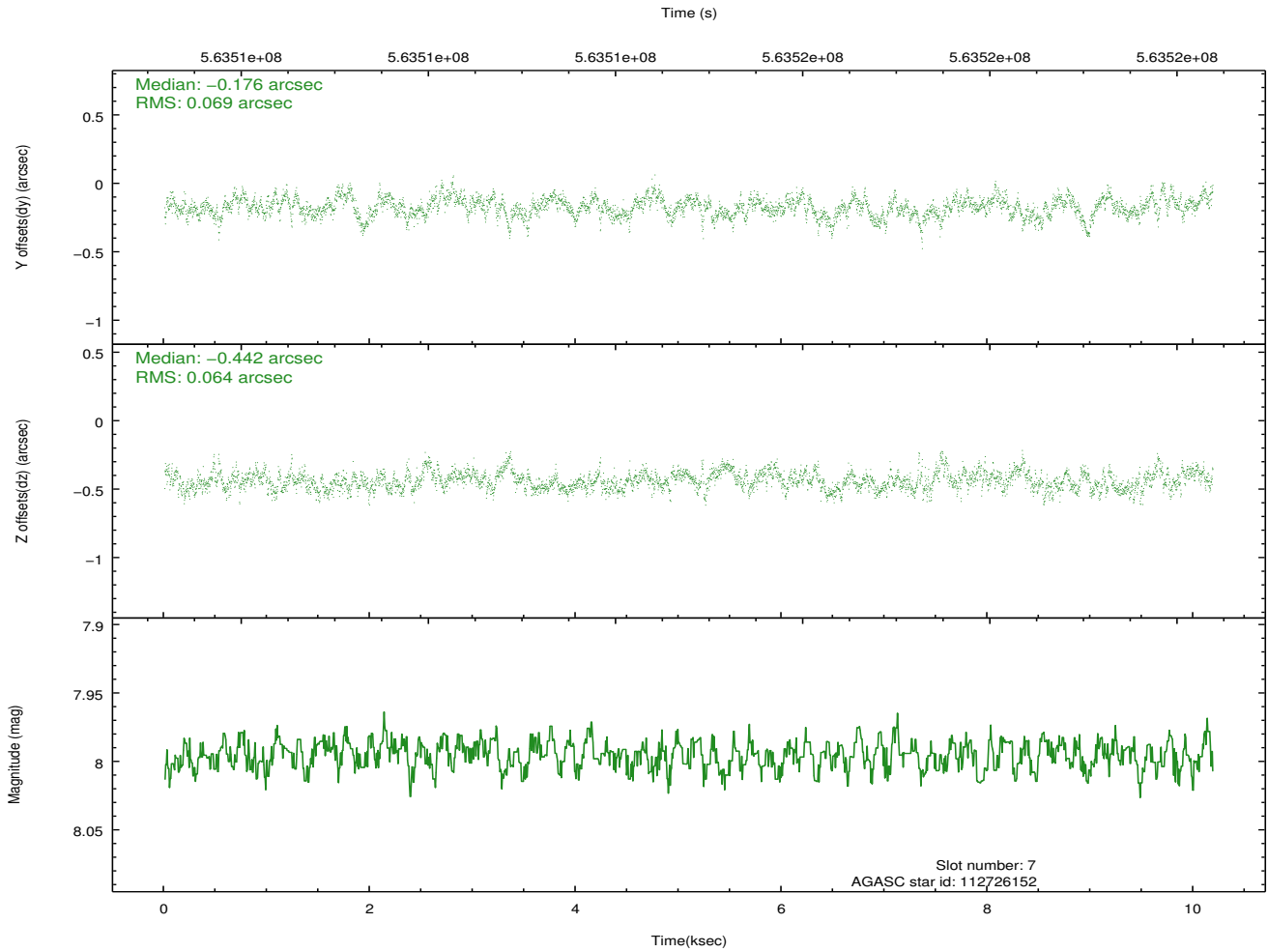
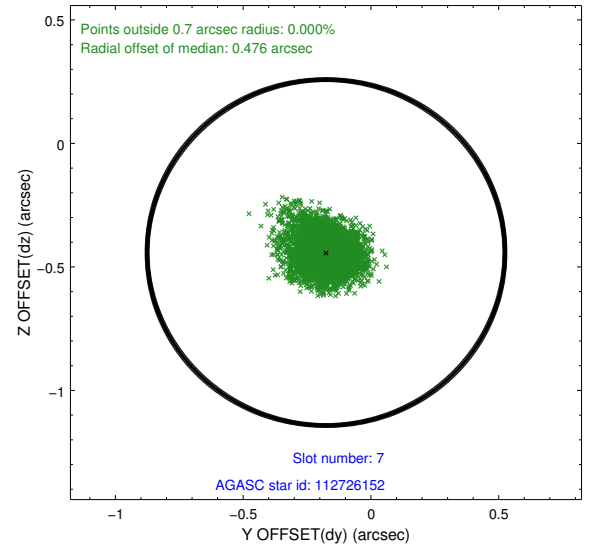
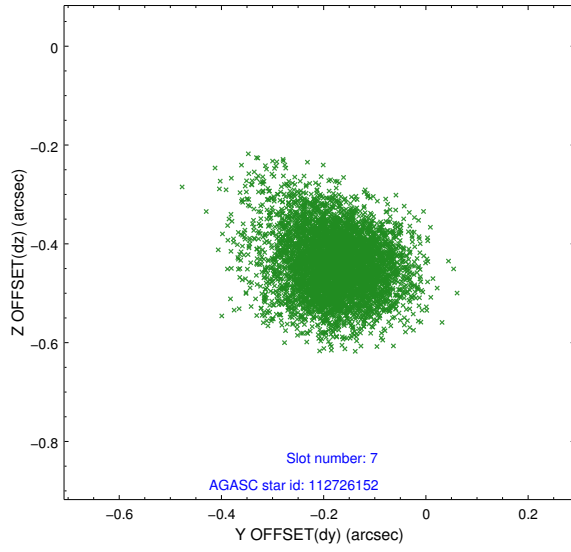
2.4.2 Slot 4



2.4.3 Slot 5

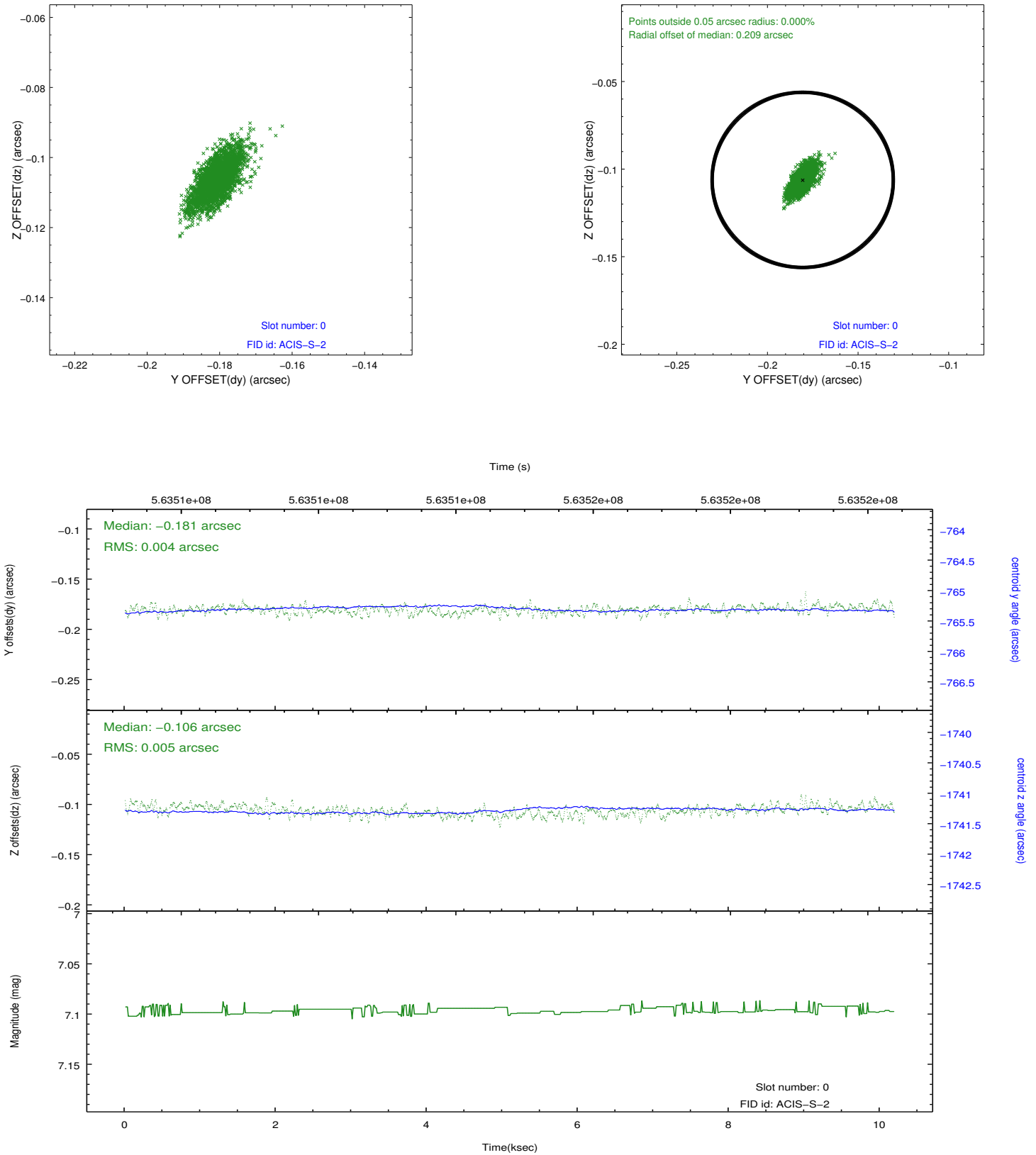


2.4.4 Slot 7

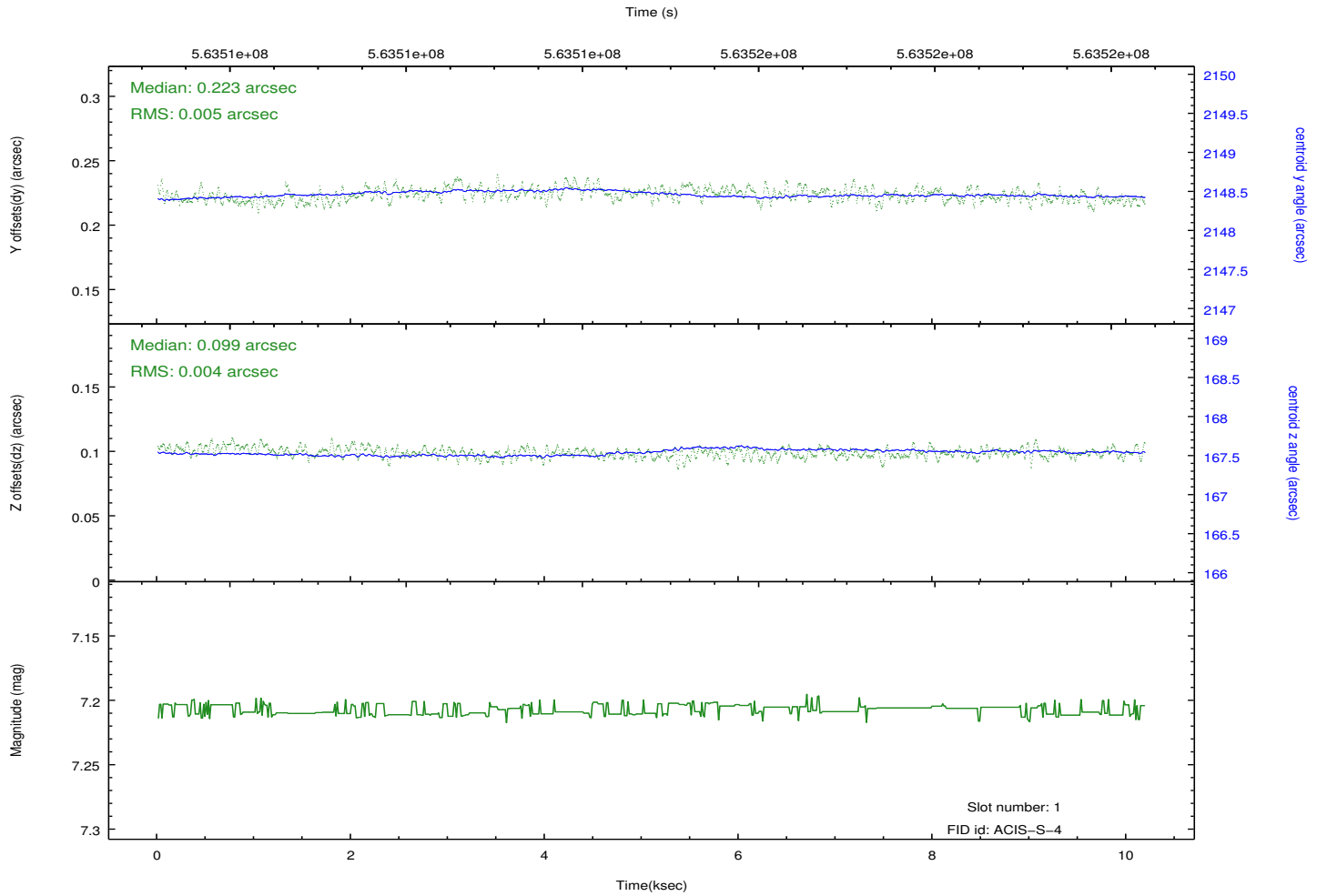
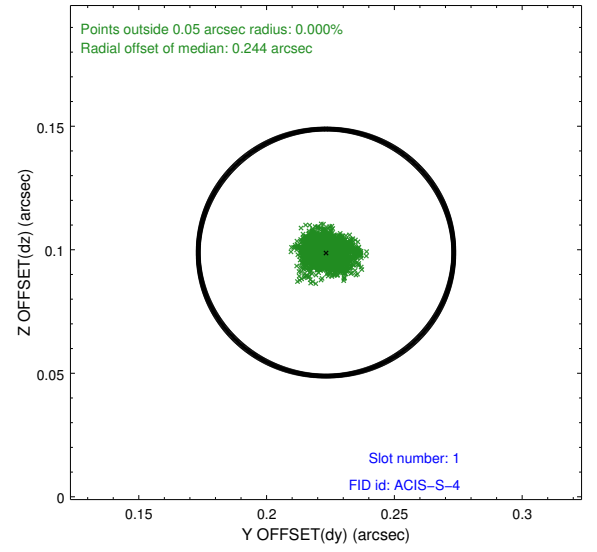
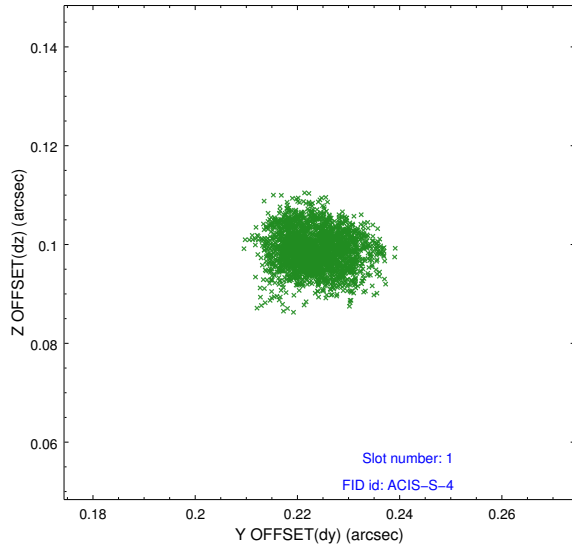


2.5 FID Slots

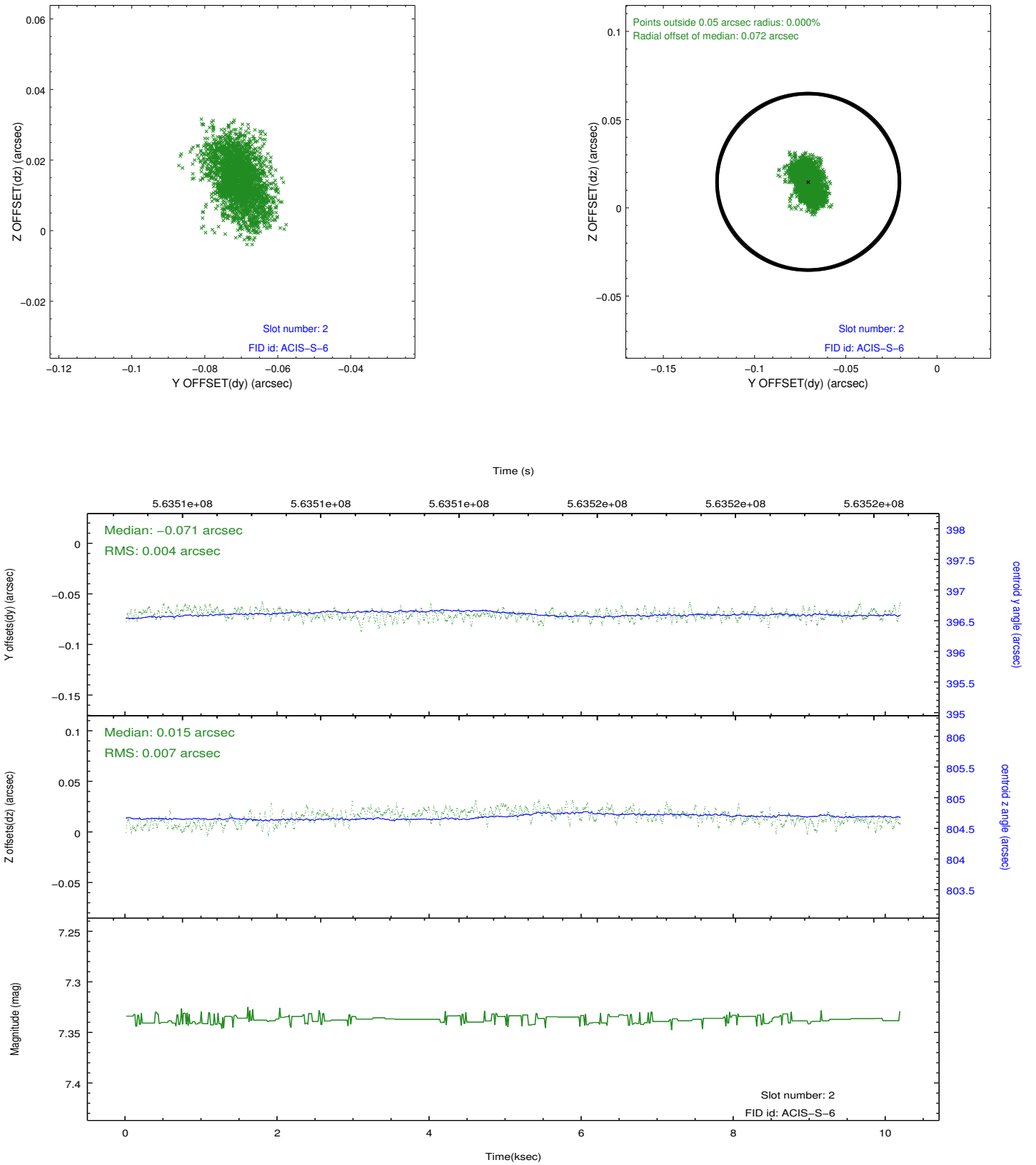
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.104000401616

A.2 Comments

The guide star in slot 6 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.