

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 413 - L2 Version 6
Chandra X-Ray Center

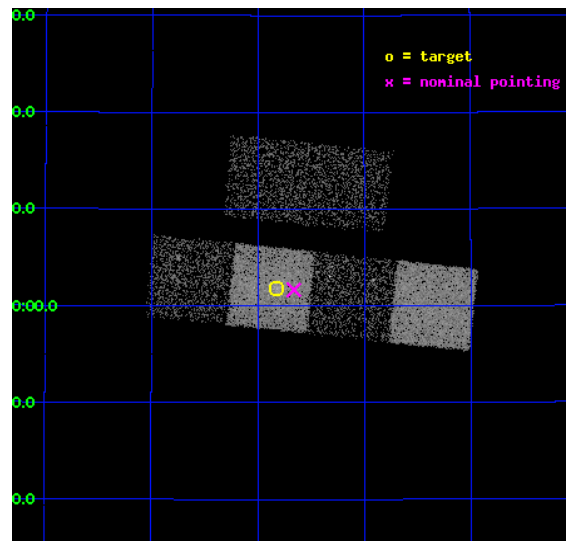
L2 Processing Date : Aug 31 2012

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1 Front

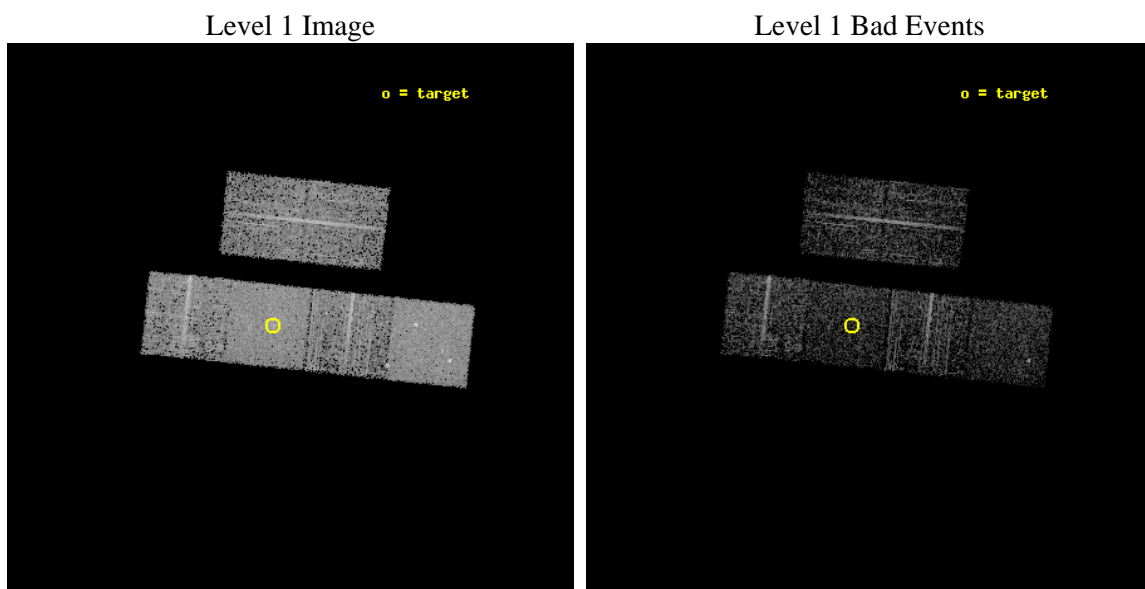
seq_num	700085	Sequence number
obs_id	413	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 5055	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.955417	Observer's specified target RA [deg]
dec_targ	42.029167	Observer's specified target Dec [deg]
ra_nom	198.91547168393	Nominal RA [deg]
dec_nom	42.027774637211	Nominal Dec [deg]
roll_nom	186.03327884037	Nominal Roll [deg]
revision	6	Processing version of data
ontime	2448.000002265	Sum of GTIs [s]
livetime	2417.0019522277	Livetime [s]
ontime2	2448.000002265	Sum of GTIs [s]
ontime3	2448.000002265	Sum of GTIs [s]
ontime5	2448.000002265	Sum of GTIs [s]
ontime6	2448.000002265	Sum of GTIs [s]
ontime7	2448.000002265	Sum of GTIs [s]
ontime8	2448.000002265	Sum of GTIs [s]
l2events	32248	Number of level 2 events



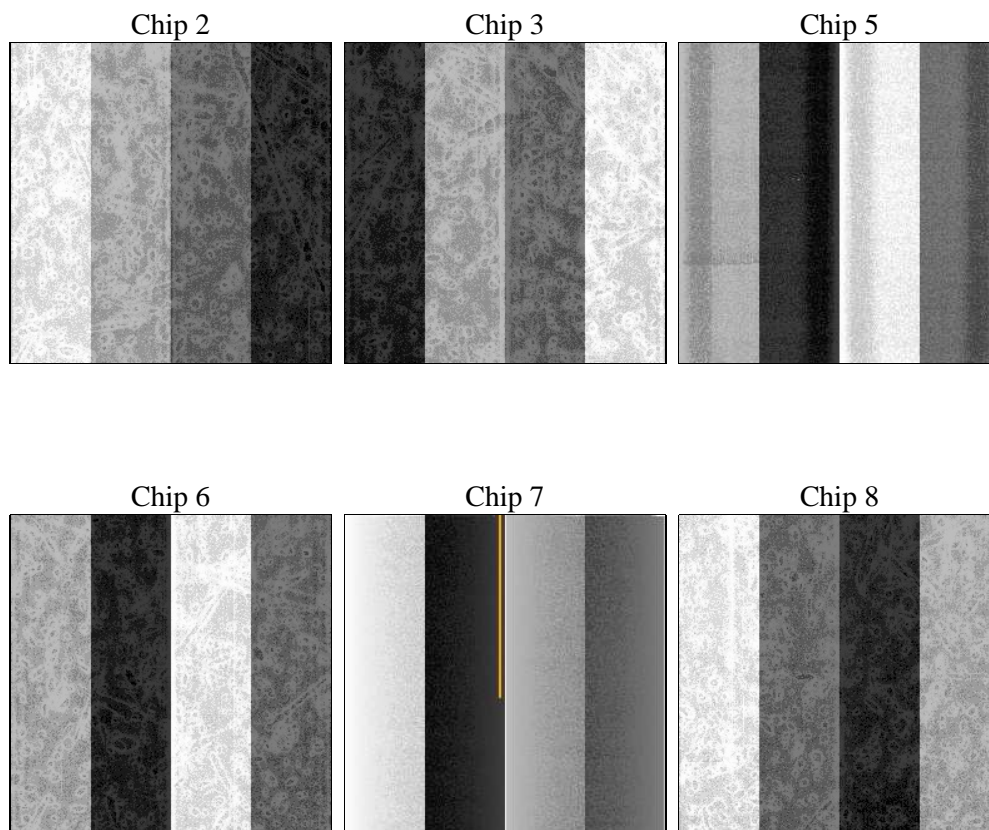
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2025.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2448.000002265	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	2448.000002265	Sum of GTIs [s]
date	2012-08-31T14:28:09	Date and time of file creation	ontime3	2448.000002265	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	2448.000002265	Sum of GTIs [s]
			ontime6	2448.000002265	Sum of GTIs [s]
			ontime7	2448.000002265	Sum of GTIs [s]
			ontime8	2448.000002265	Sum of GTIs [s]
			l1events	145056	Number of level 1 events

2.1.4 Events

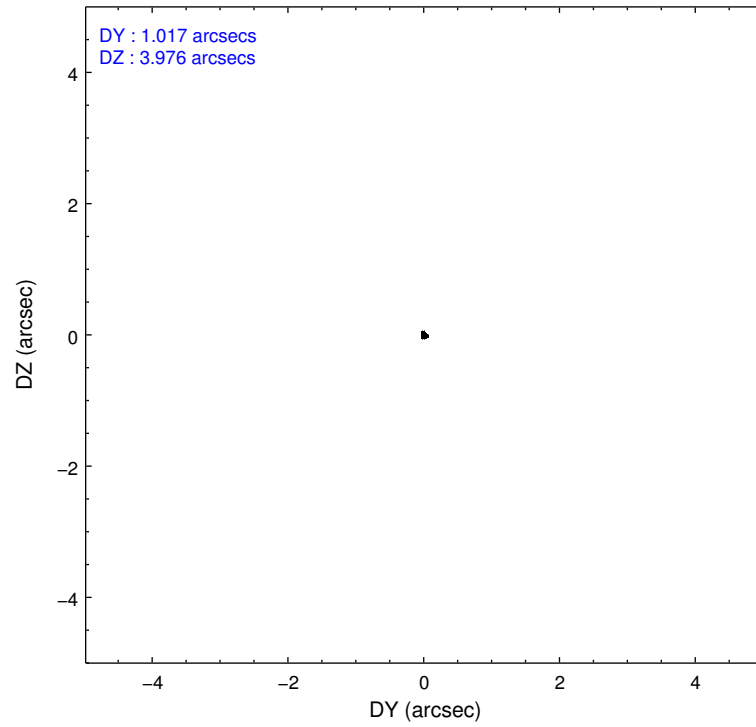
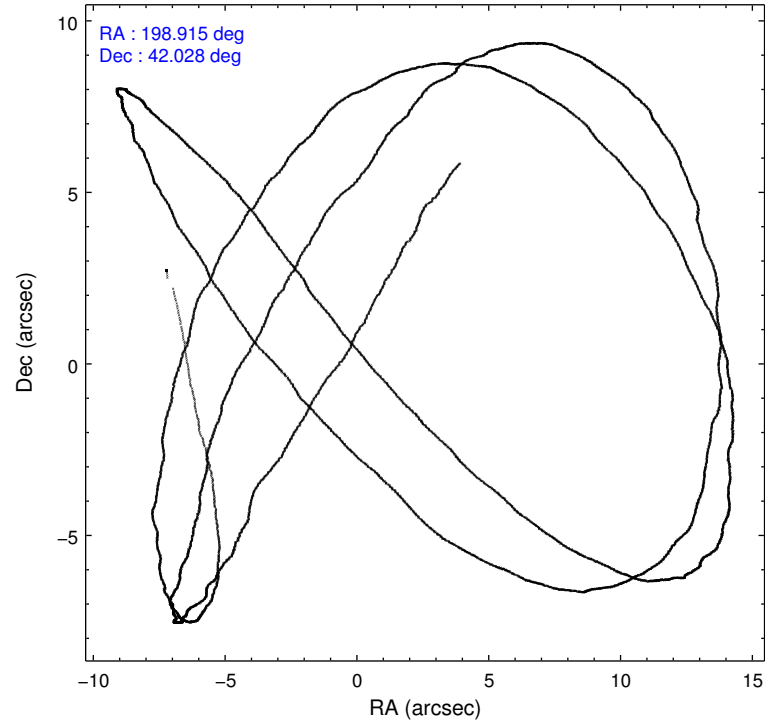
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19752	19652	29664	21566	28005	26417	grade 0 events	872	891	2571	1187	2014	1542
rejected events	17978	17800	15702	19344	15184	21861		4%	4%	8%	5%	7%	5%
rejected %	91%	90%	52%	89%	54%	82%	grade 1 events	12	13	38	13	14	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	413	403	4412	450	2853	1070
								2%	2%	14%	2%	10%	4%
							grade 3 events	217	229	871	222	1404	627
								1%	1%	2%	1%	5%	2%
							grade 4 events	186	208	842	233	1319	517
								0%	1%	2%	1%	4%	1%
							grade 5 events	638	628	2219	752	2249	955
								3%	3%	7%	3%	8%	3%
							grade 6 events	320	342	6988	409	6698	1432
								1%	1%	23%	1%	23%	5%
							grade 7 events	17094	16938	11723	18300	11454	20257
								86%	86%	39%	84%	40%	76%

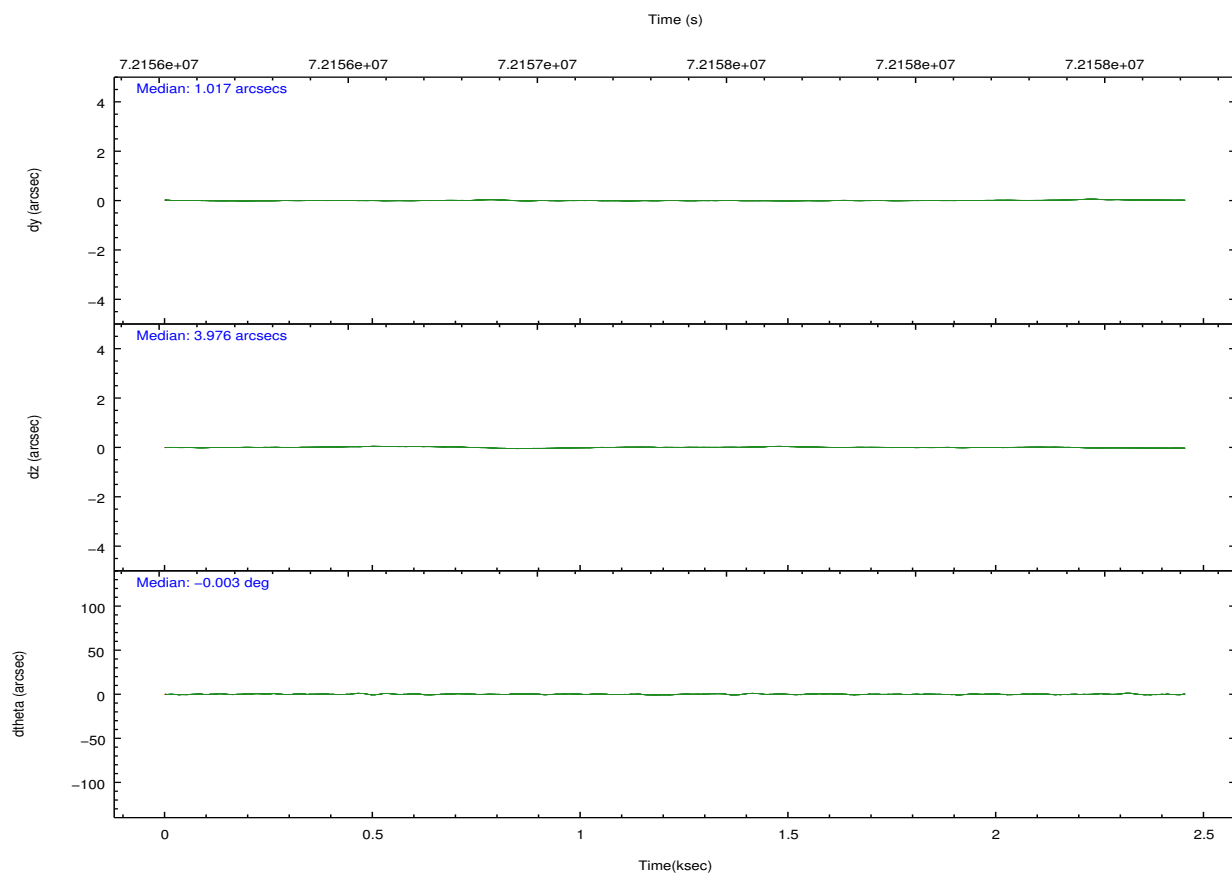
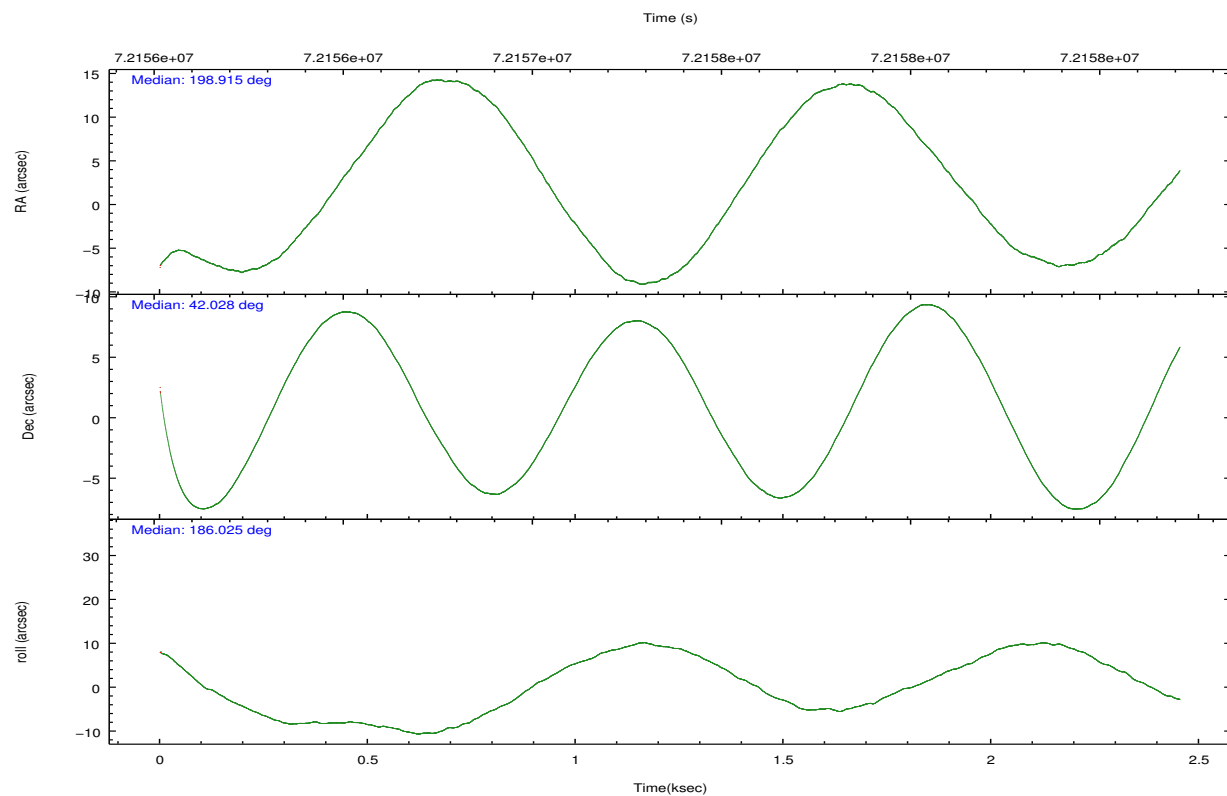
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	198.945676	198.9154716839258
[deg] Pointing Dec	42.044179	42.02777463721068
[deg] Pointing Roll	185.856371	186.0332788403719
[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)	72156567.184000	72155060.395538
Observation start date	2000-04-15T03:28:23	2000-04-15T03:04:20
[s] Observation end time (MET)	72158592.184000	72159276.733192
Observation end date	2000-04-15T04:02:08	2000-04-15T04:14:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



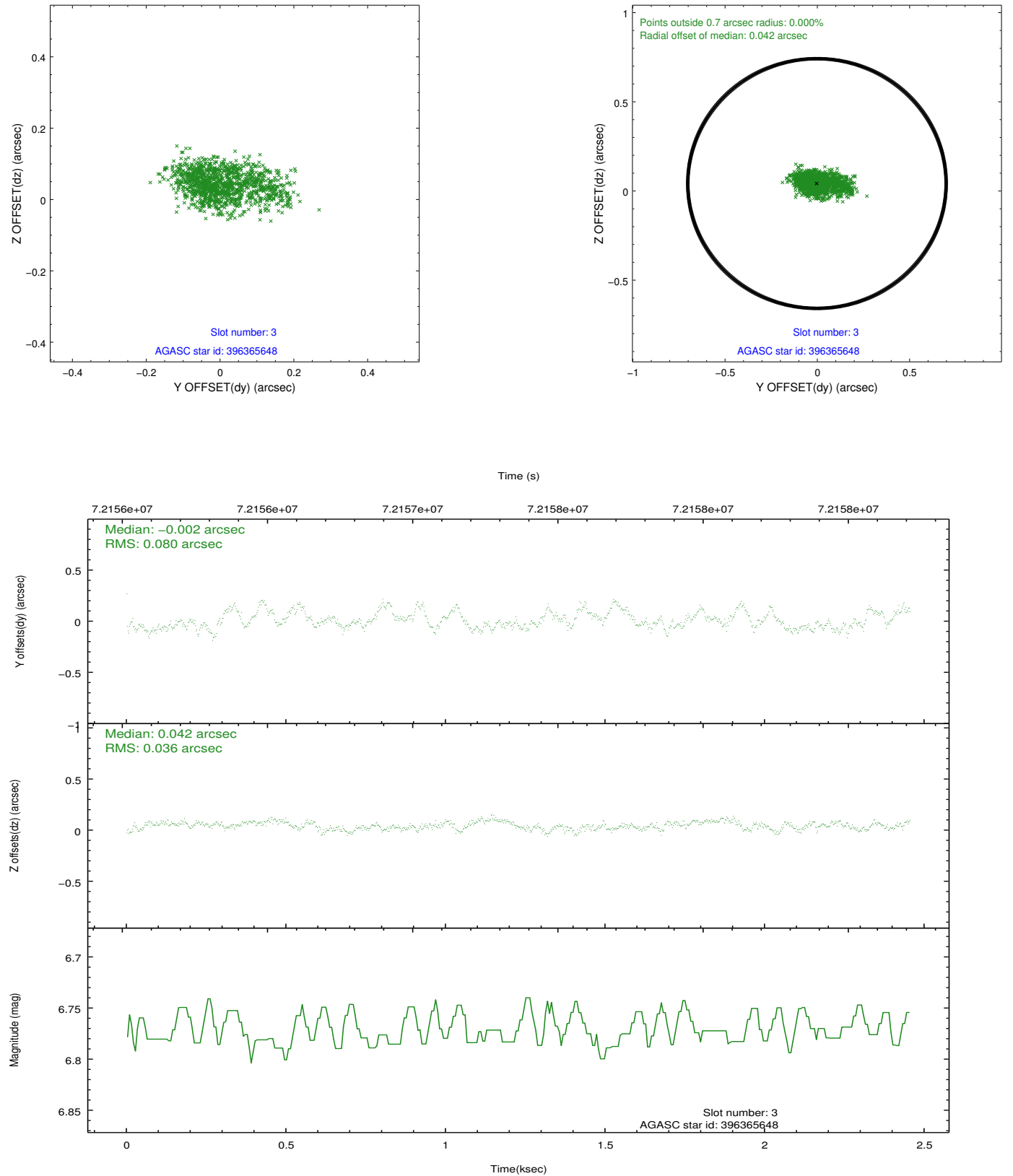


Slot Statistics

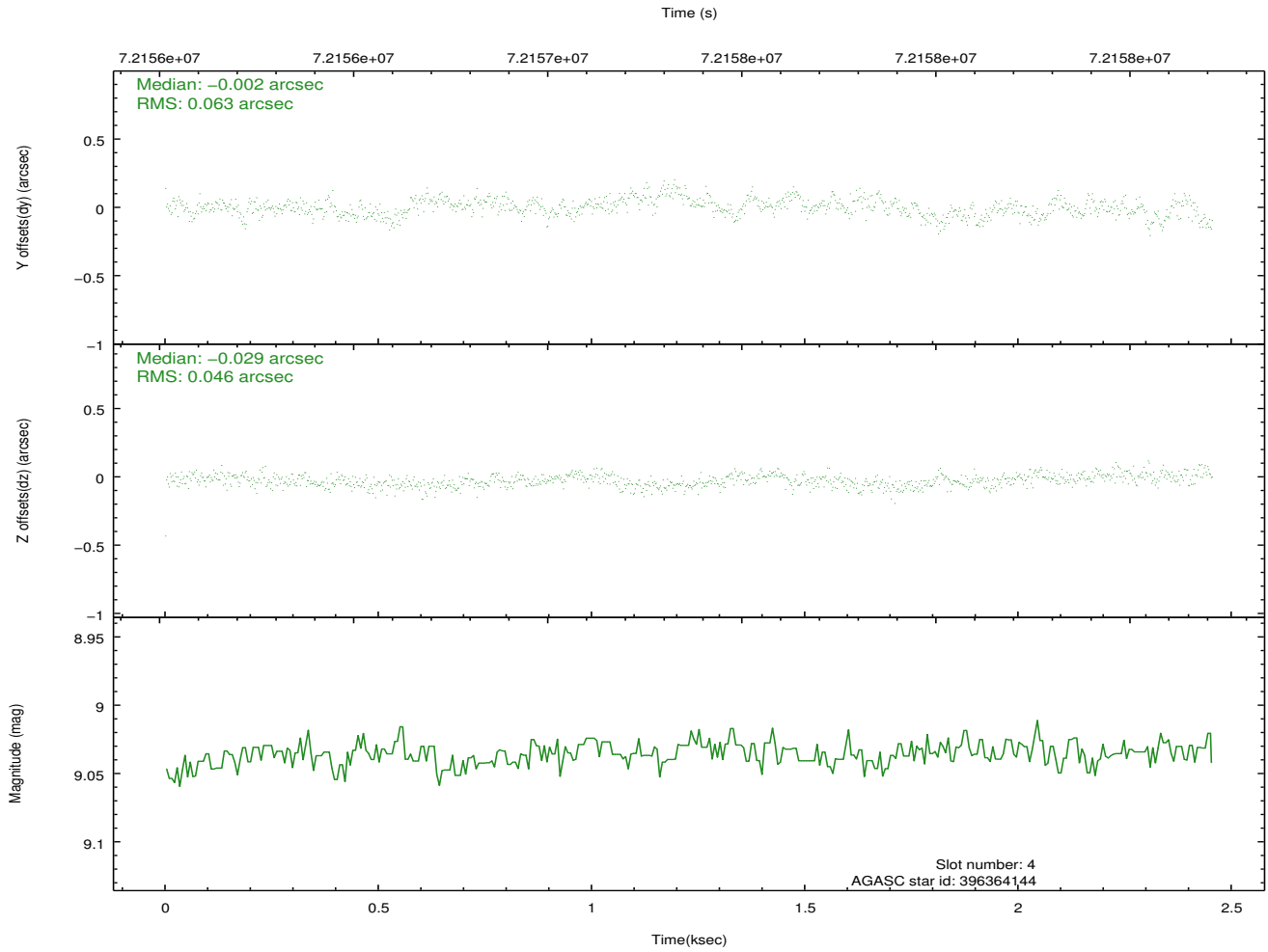
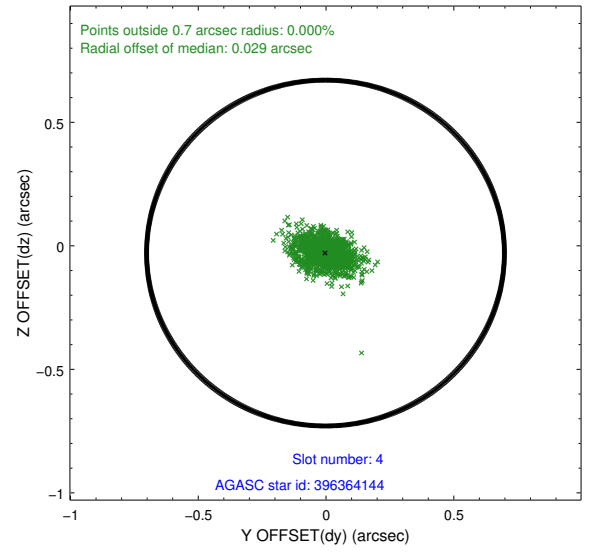
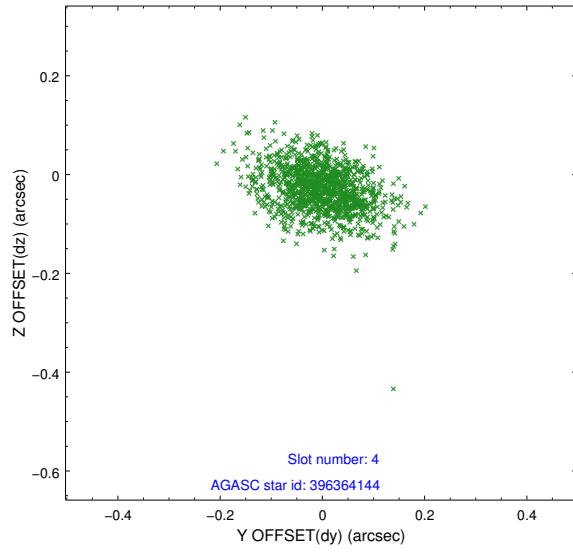
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	599	-0.014	-0.016	0.007	0.011	0.000000	0.000000	-753.66	-1725.01
1	FID	ACIS-S-4	7.21	599	0.005	0.011	0.005	0.008	0.000000	0.000000	2158.49	180.73
2	FID	ACIS-S-5	7.23	599	-0.023	0.014	0.007	0.010	0.000000	0.000000	-1803.07	177.48
3	GUIDE	396365648	6.77	1198	-0.002	0.042	0.090	0.164	198.206350	42.626668	1733.72	-2294.41
4	GUIDE	396364144	9.04	1198	-0.002	-0.029	0.081	0.138	199.529559	42.014737	-1541.85	256.98
5	GUIDE	396368544	7.56	1198	-0.057	0.010	0.064	0.100	198.799211	42.266539	305.25	-836.54
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	396374576	10.02	1197	0.050	-0.020	0.138	0.218	199.155228	41.489032	-358.28	2043.95

2.4 Star Slots

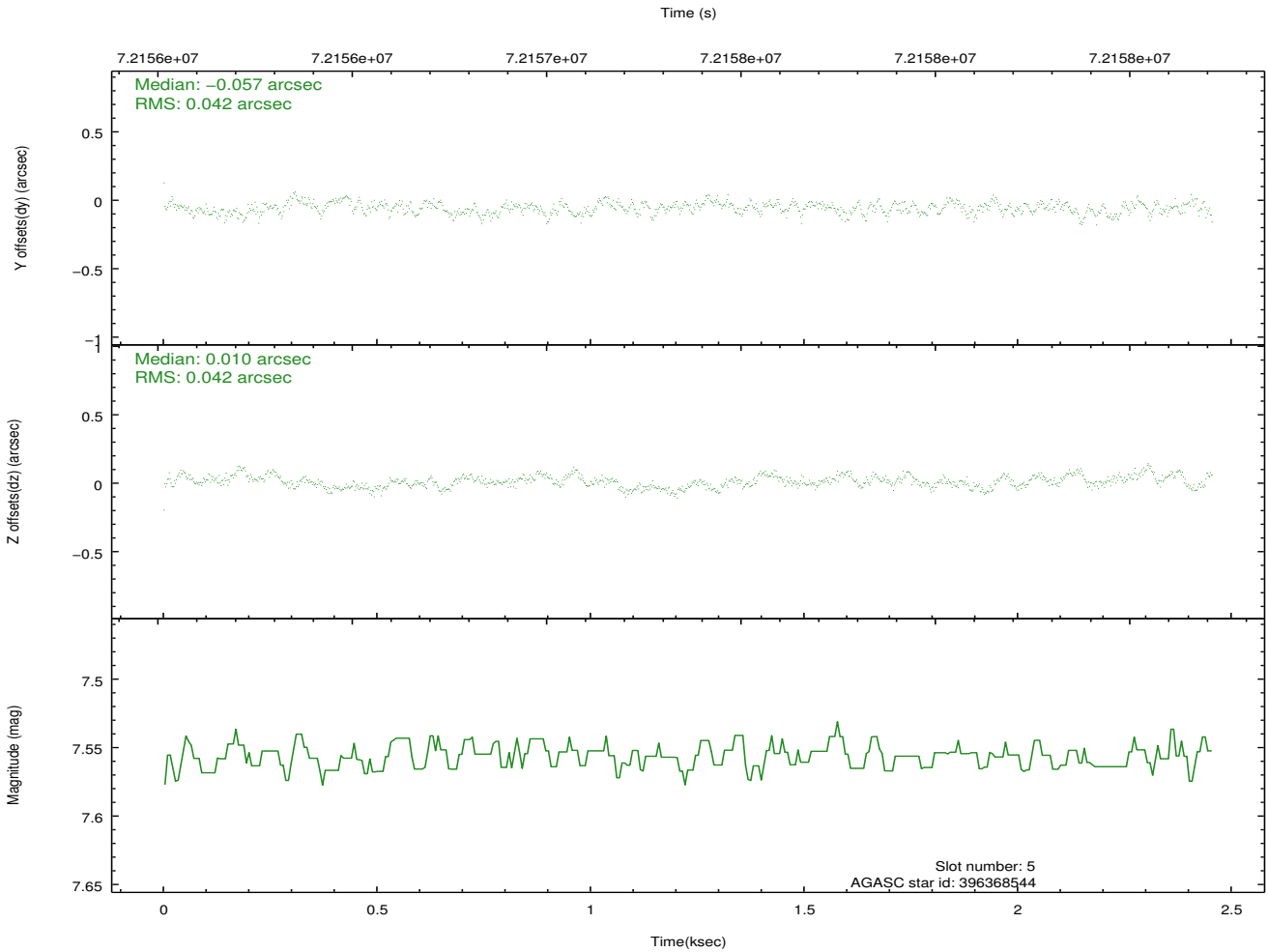
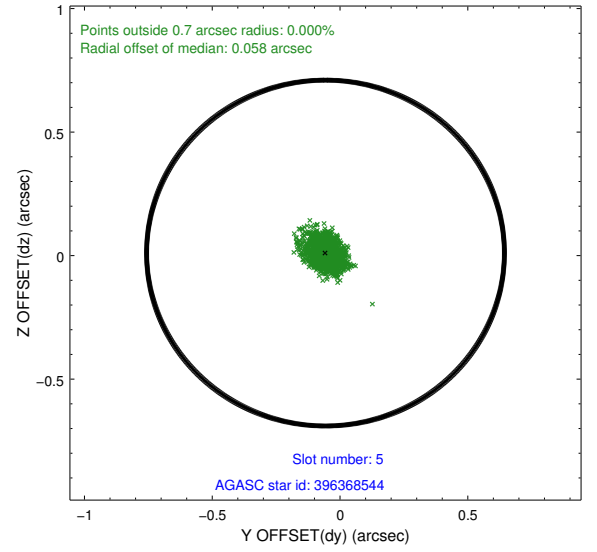
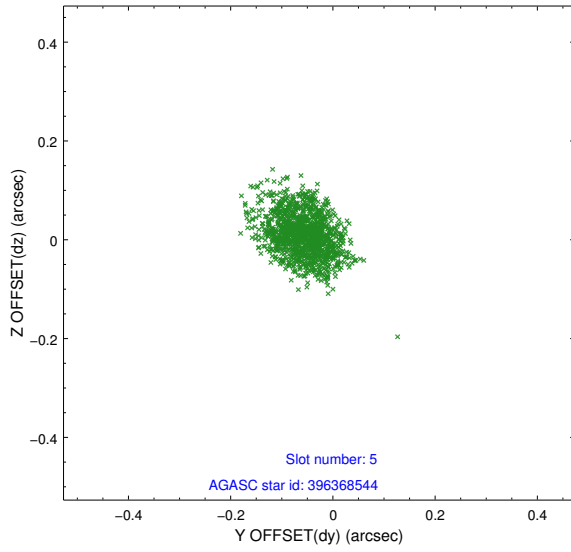
2.4.1 Slot 3



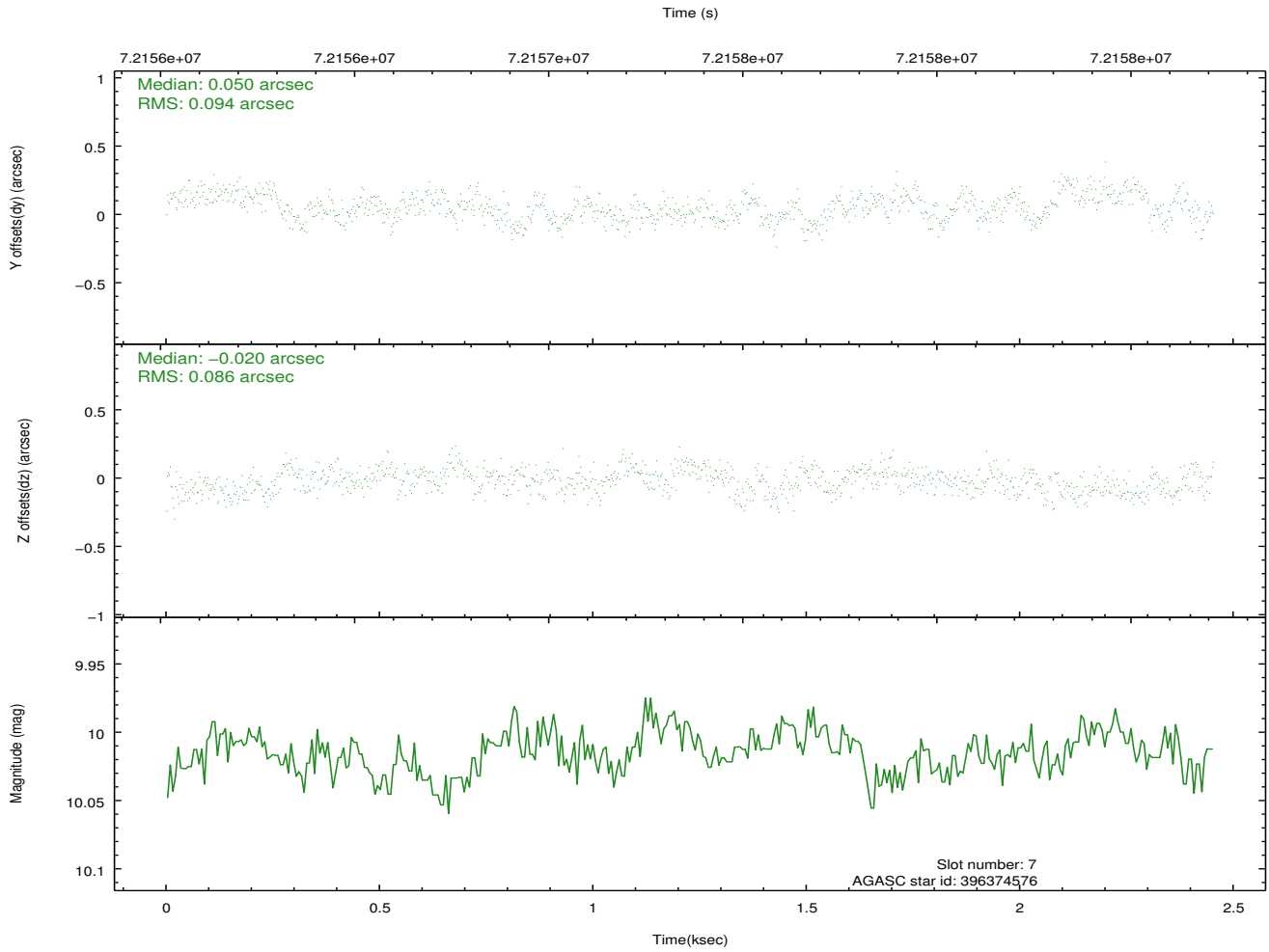
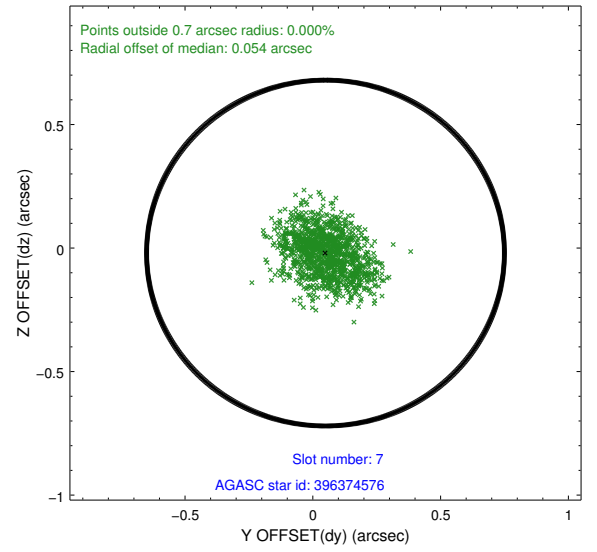
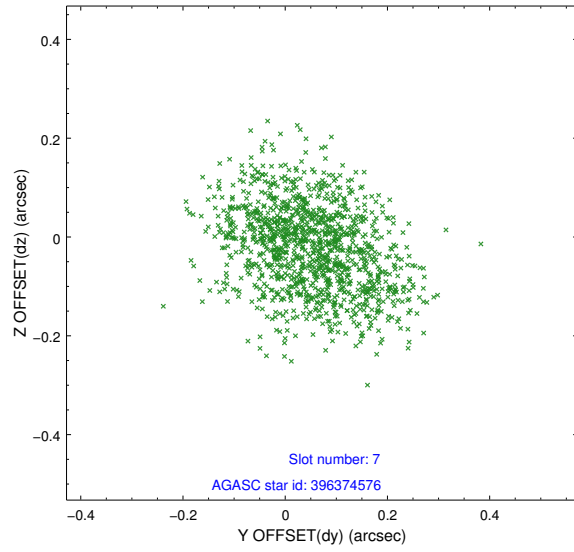
2.4.2 Slot 4



2.4.3 Slot 5

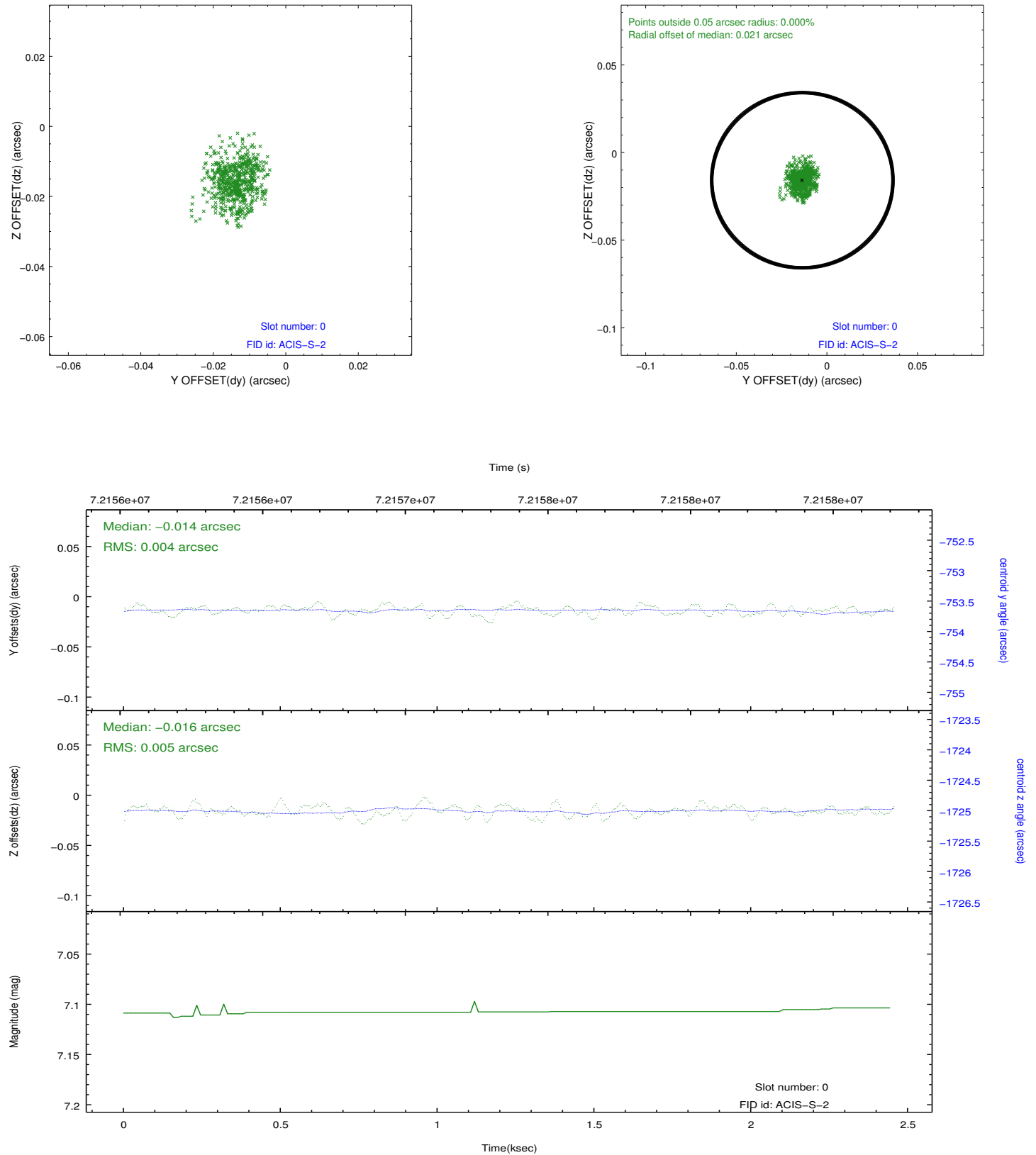


2.4.4 Slot 7

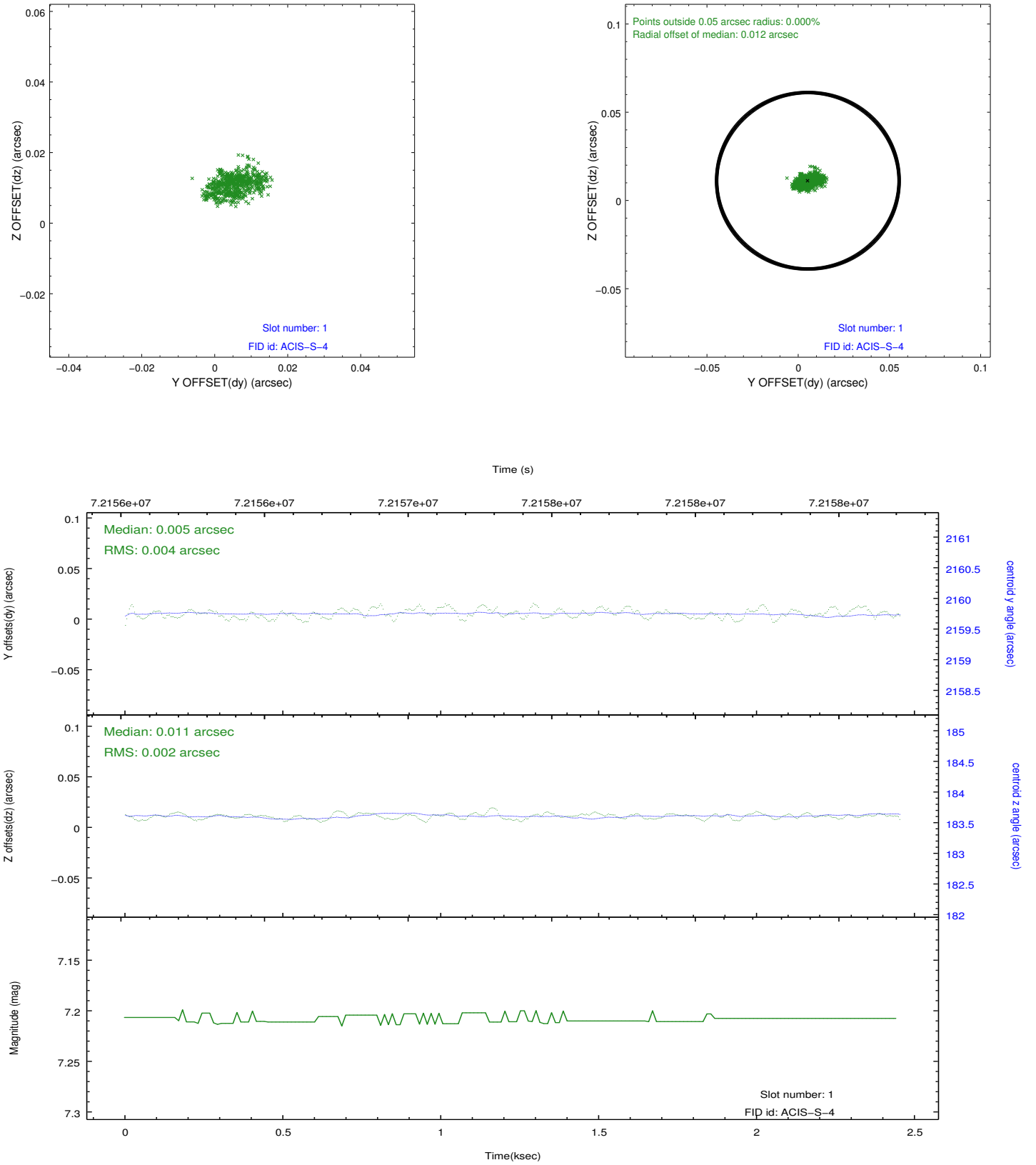


2.5 FID Slots

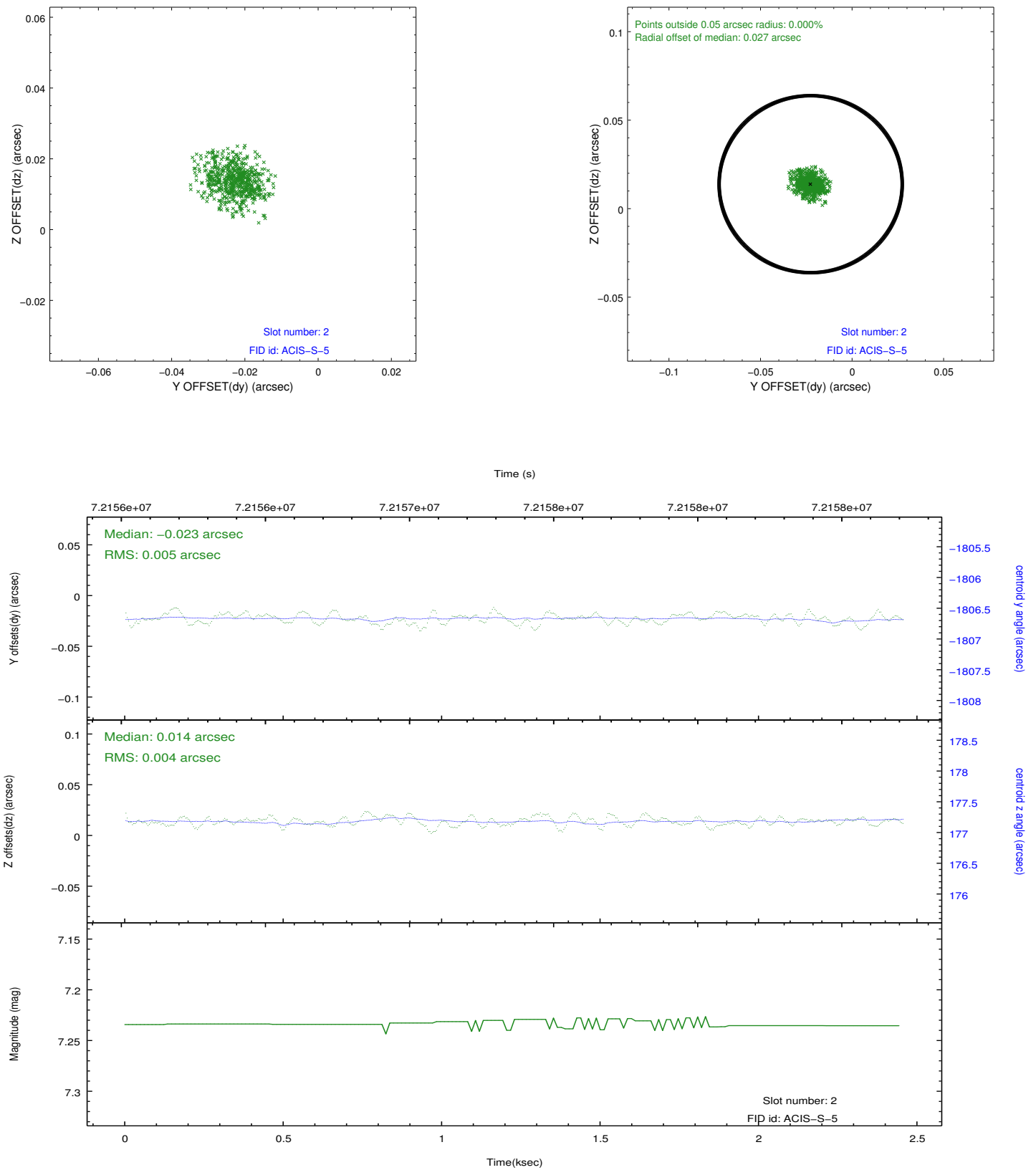
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.451

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 guide star from the solution.