

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14472 - L2 Version 1
Chandra X-Ray Center

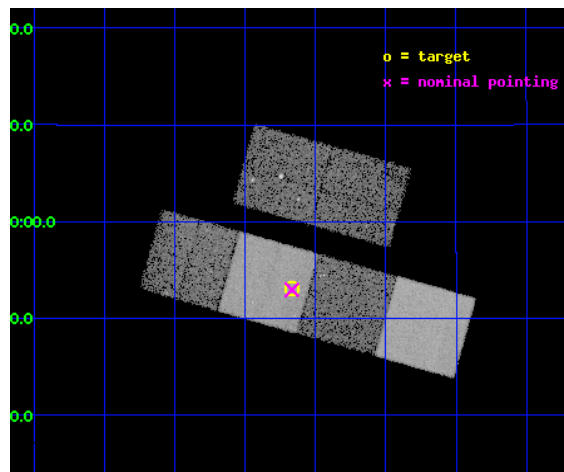
L2 Processing Date : Aug 11 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

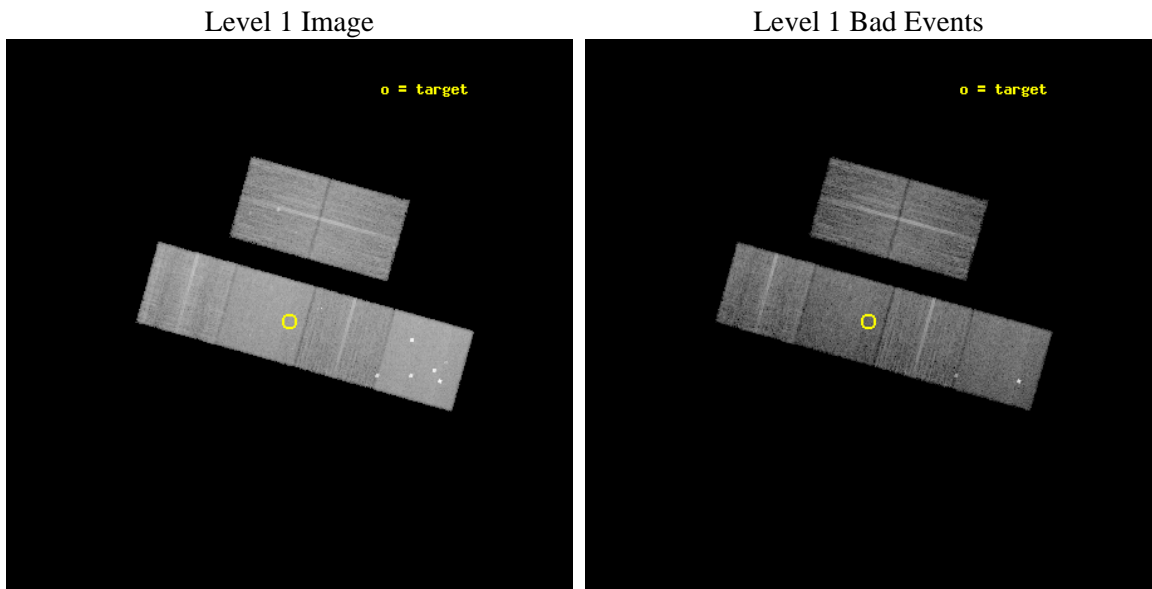
seq_num	401409	Sequence number
obs_id	14472	Observation id
title	Chandra Observations of More New Black Widows and Redbacks in the Galactic Field	Proposal title
observer	Dr. Mallory Roberts	Principal investigator
object	PSR J2047+10	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	311.792747	Observer's specified target RA [deg]
dec_targ	10.885546	Observer's specified target Dec [deg]
ra_nom	311.79183152181	Nominal RA [deg]
dec_nom	10.882658881321	Nominal Dec [deg]
roll_nom	195.65680185231	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17964.799933136	Sum of GTIs [s]
livetime	17737.318819278	Livetime [s]
ontime2	17961.558892906	Sum of GTIs [s]
ontime3	17964.799933136	Sum of GTIs [s]
ontime5	17964.799933136	Sum of GTIs [s]
ontime6	17964.799933136	Sum of GTIs [s]
ontime7	17964.799933136	Sum of GTIs [s]
ontime8	17964.799933136	Sum of GTIs [s]
l2events	158368	Number of level 2 events



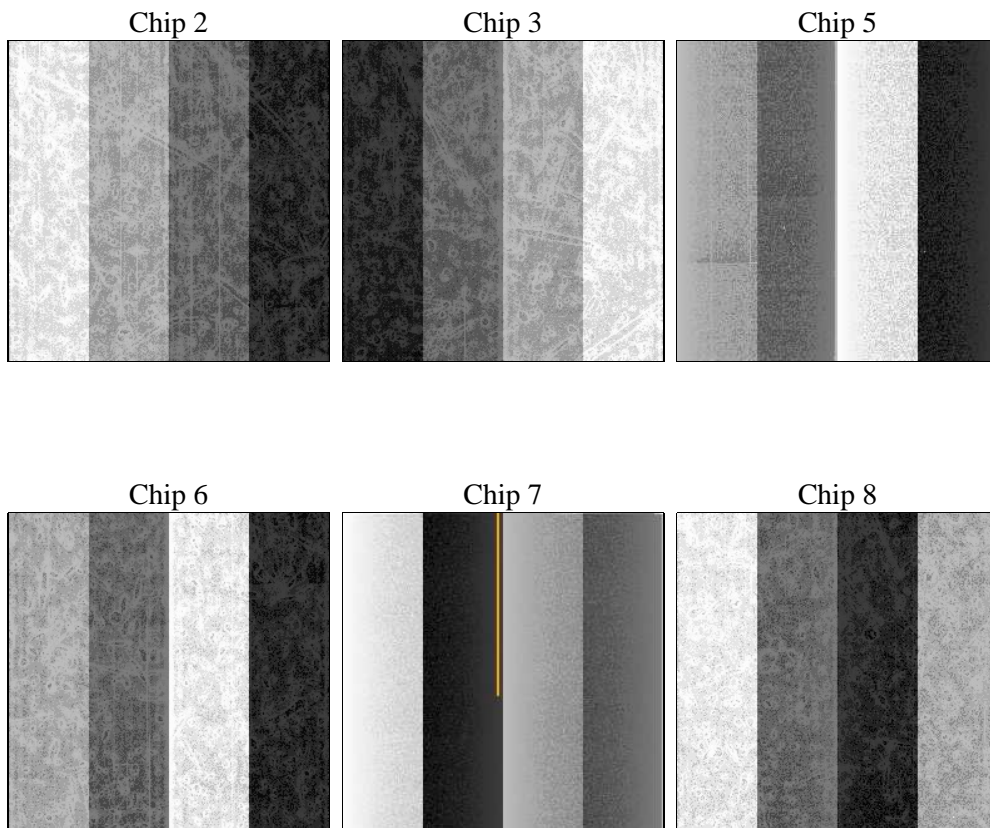
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.782000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	17964.799933136	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	17961.558892906	Sum of GTIs [s]
date	2012-08-11T20:01:58	Date and time of file creation	ontime3	17964.799933136	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	17964.799933136	Sum of GTIs [s]
			ontime6	17964.799933136	Sum of GTIs [s]
			ontime7	17964.799933136	Sum of GTIs [s]
			ontime8	17964.799933136	Sum of GTIs [s]
			l1events	671191	Number of level 1 events

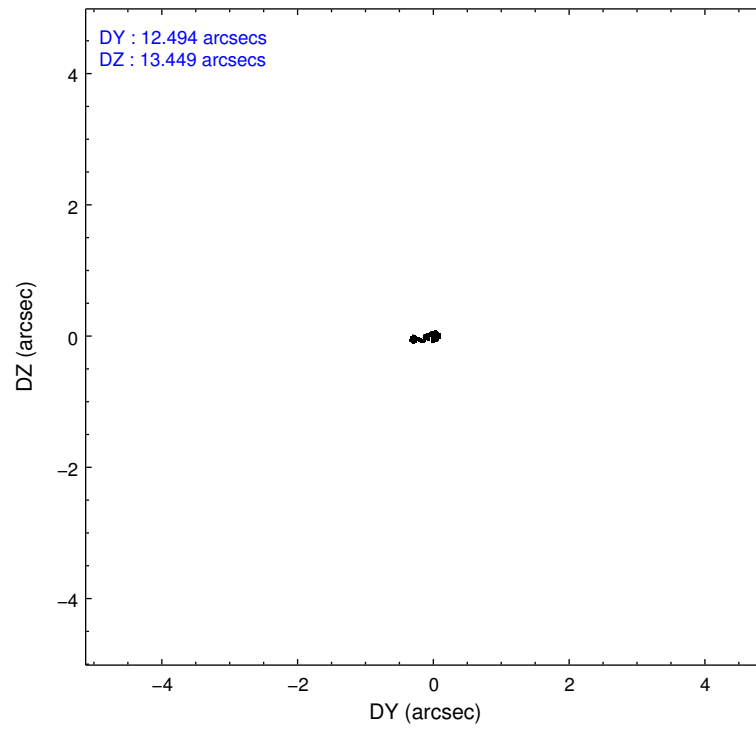
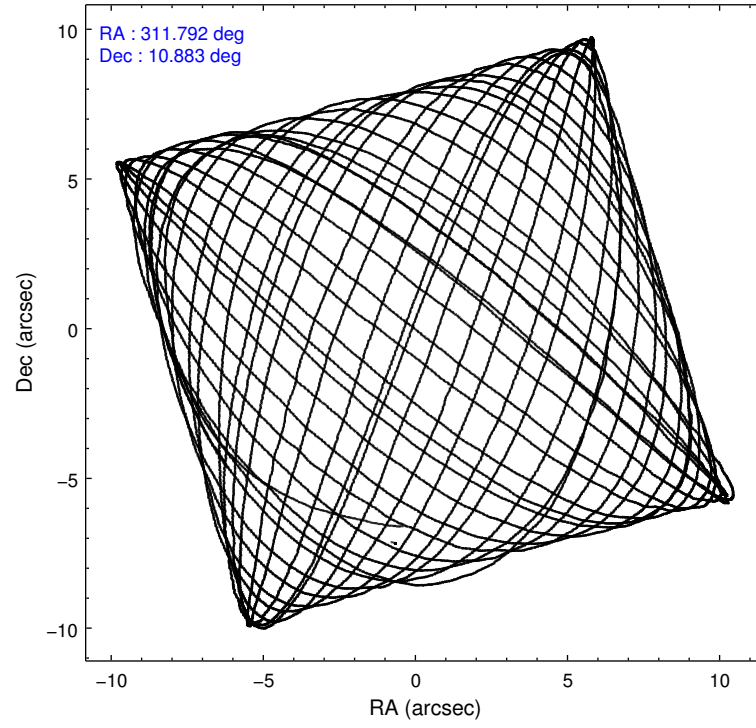
2.1.4 Events

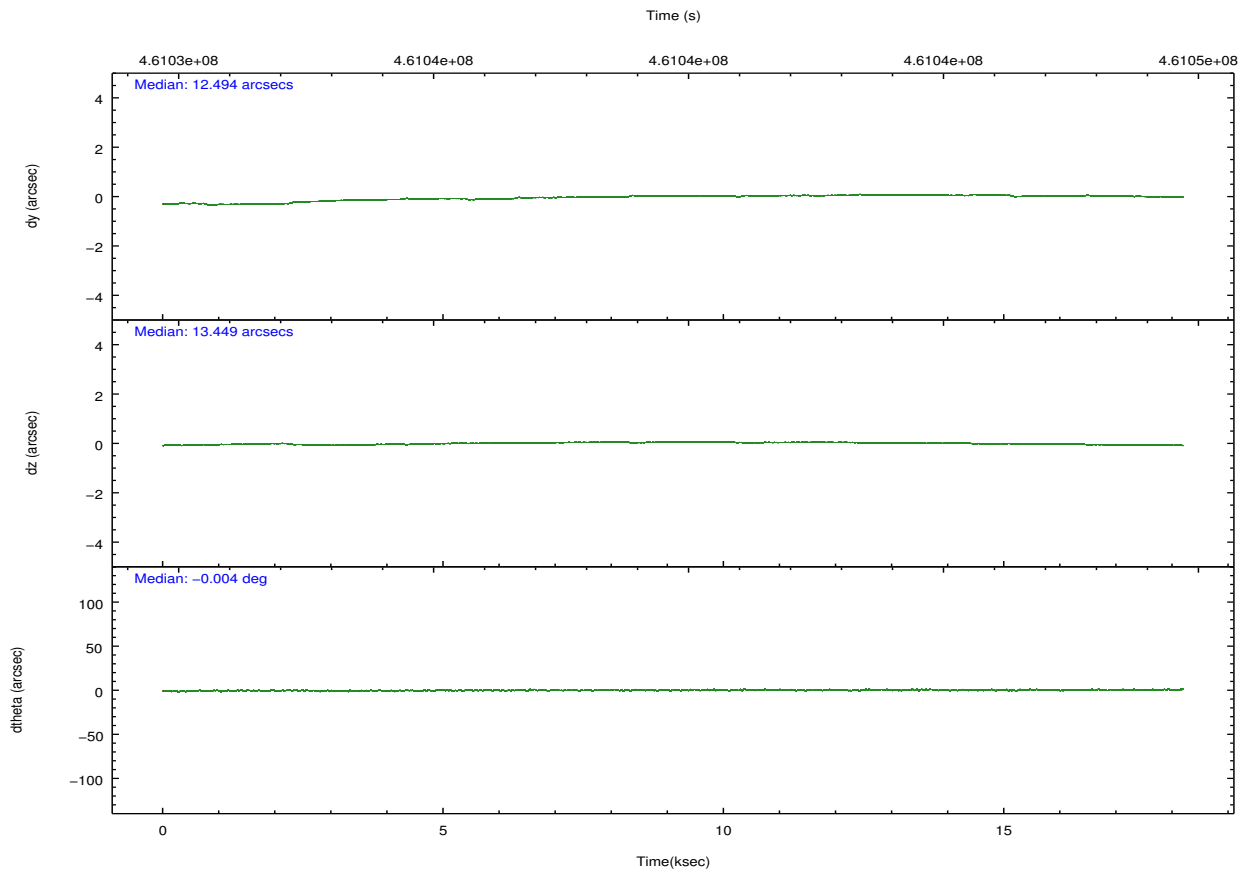
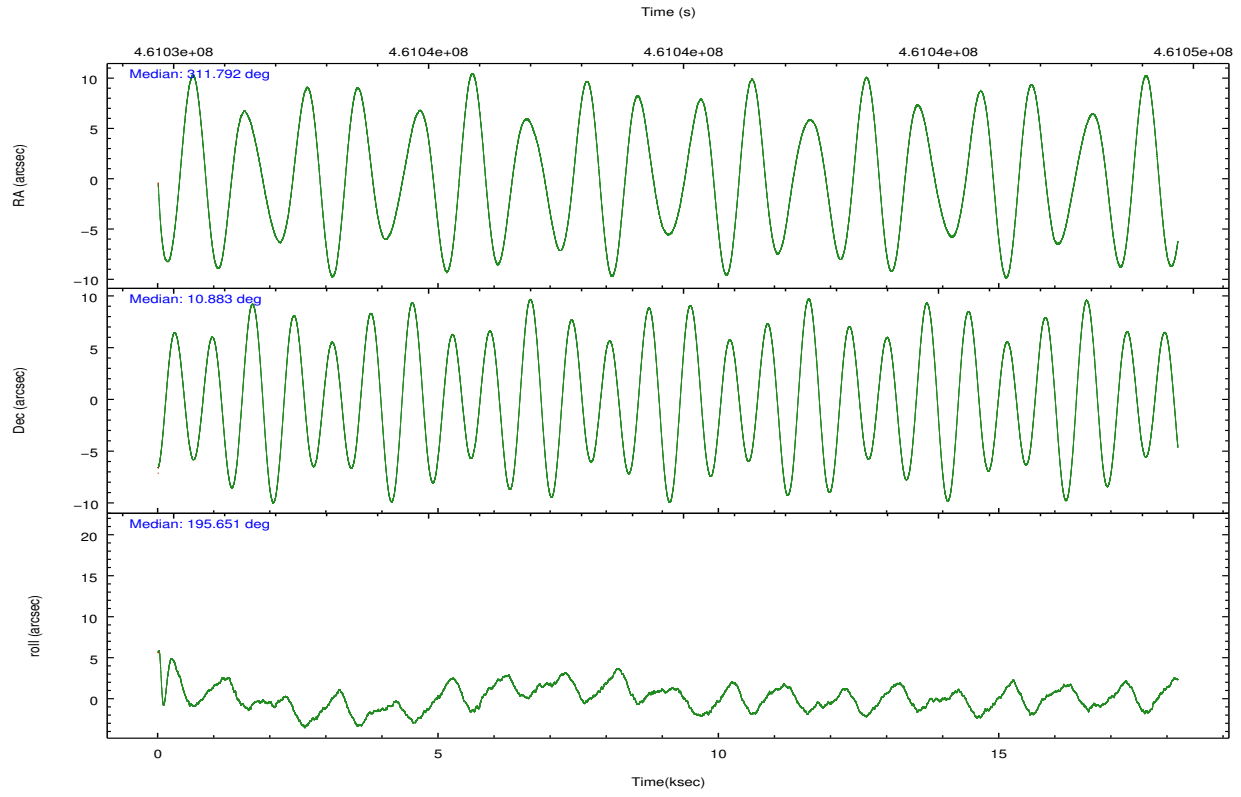
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	90006	88200	163240	90221	122705	116819	grade 0 events	3659	4360	17475	4212	5048	8687
rejected events	79750	77319	78596	78849	68815	87336		4%	4%	10%	4%	4%	7%
rejected %	88%	87%	48%	87%	56%	74%	grade 1 events	54	56	394	42	121	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	2471	2227	22876	2450	10998	6893
								2%	2%	14%	2%	8%	5%
							grade 3 events	1050	1107	2738	1093	4680	3185
								1%	1%	1%	1%	3%	2%
							grade 4 events	1045	1068	2475	1121	4605	3052
								1%	1%	1%	1%	3%	2%
							grade 5 events	4139	4614	11540	4652	12511	6595
								4%	5%	7%	5%	10%	5%
							grade 6 events	2034	2119	39119	2497	28580	7696
								2%	2%	23%	2%	23%	6%
							grade 7 events	75554	72649	66623	74154	56162	80631
								83%	82%	40%	82%	45%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	311.811040	311.791831521805	CCD I2 on	O4	Y
[deg] Pointing Dec	10.902467	10.88265888132127	CCD I3 on	O5	Y
[deg] Pointing Roll	195.496543	195.6568018523061	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	461030787.184000	461029711.70287	CCD S5 on	N	N
Observation start date	2012-08-11T00:05:20	2012-08-10T23:48:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	461048788.184000	461049013.99141	On-chip summing requested	N	N
Observation end date	2012-08-11T05:05:21	2012-08-11T05:10:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



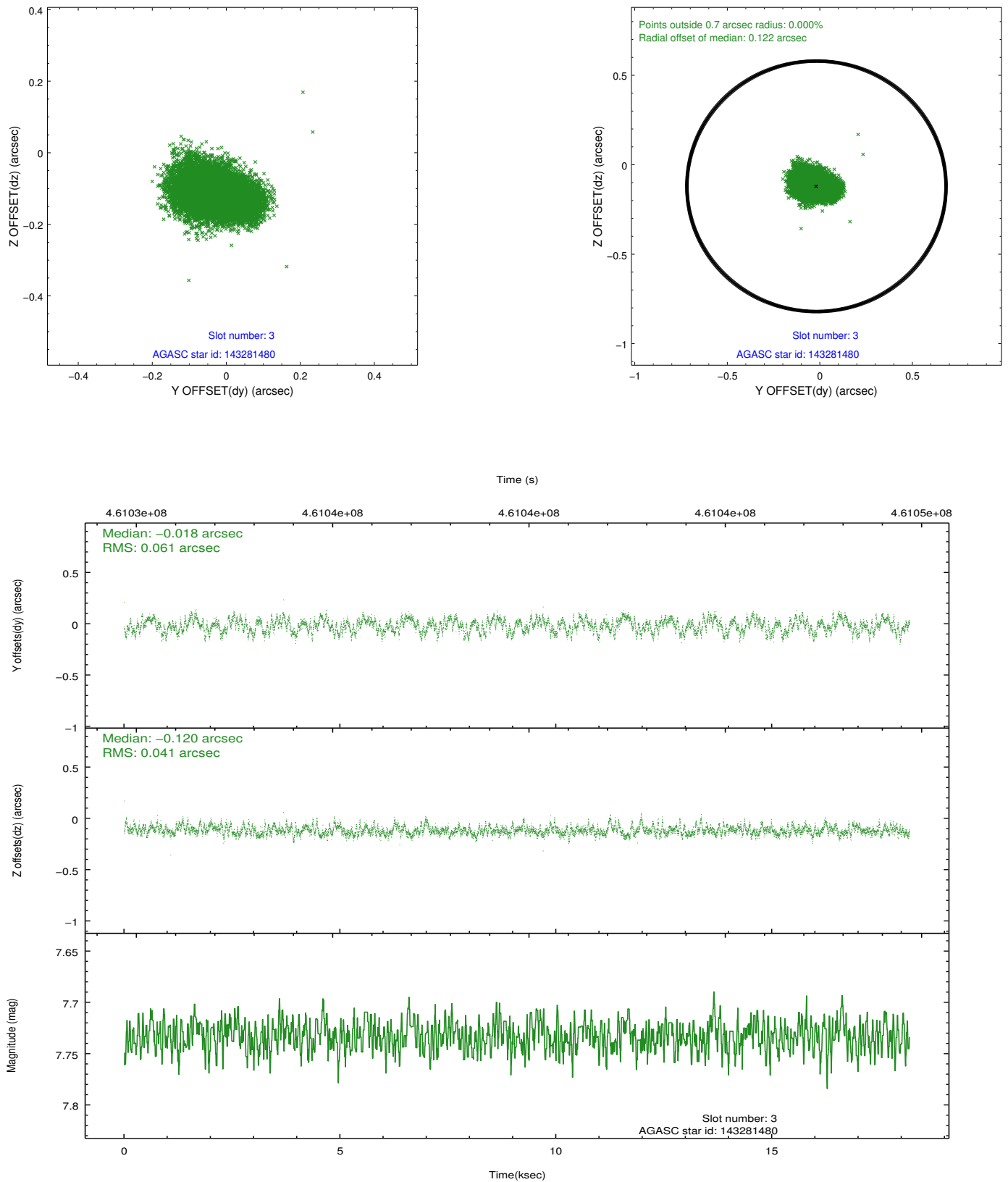


Slot Statistics

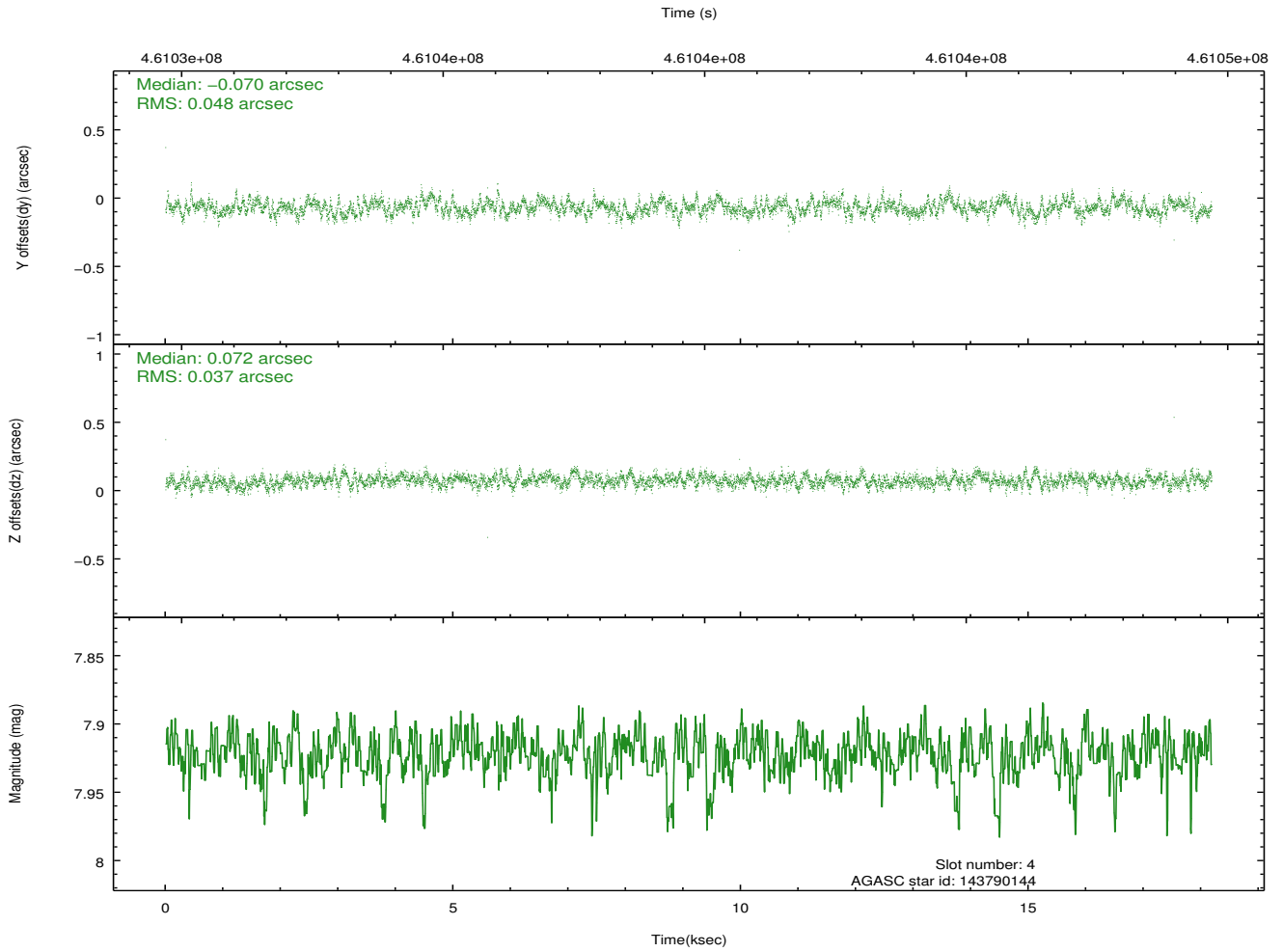
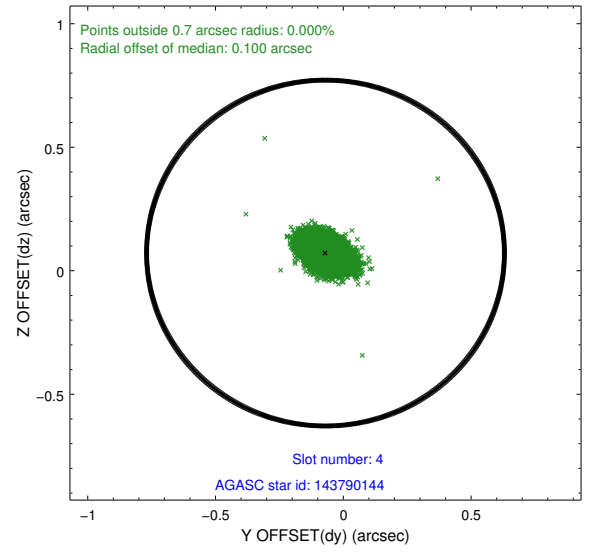
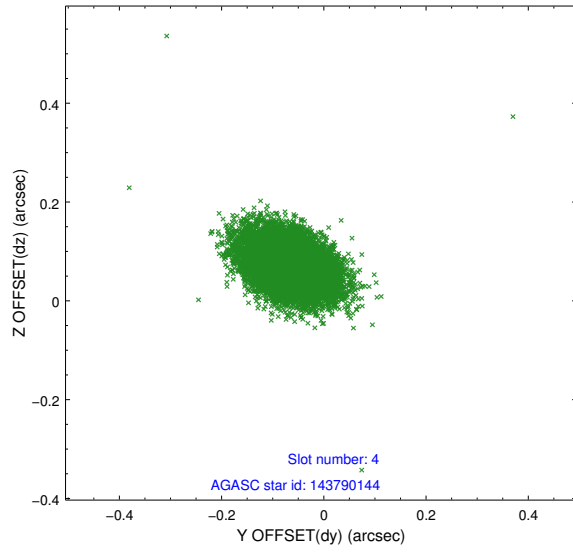
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	4436	-0.079	-0.038	0.007	0.013	0.000000	0.000000	-765.44	-1734.81
1	FID	ACIS-S-4	7.04	4436	0.131	0.029	0.007	0.011	0.000000	0.000000	2147.97	173.48
2	FID	ACIS-S-6	7.18	4436	-0.080	0.016	0.007	0.012	0.000000	0.000000	396.85	811.13
3	GUIDE	143281480	7.73	8871	-0.018	-0.120	0.079	0.126	311.938465	10.465267	-14.01	1637.54
4	GUIDE	143790144	7.92	8870	-0.070	0.072	0.064	0.105	311.386985	11.423840	940.82	-2208.75
5	GUIDE	143919808	8.72	8870	0.129	0.115	0.080	0.130	312.325116	11.361440	-2189.59	-1109.07
6	GUIDE	143280856	9.07	8863	0.058	0.104	0.091	0.145	311.380291	10.816549	1550.15	-109.62
7	GUIDE	143284192	9.06	8867	-0.097	-0.176	0.098	0.152	311.604215	10.155174	1425.10	2396.56

2.4 Star Slots

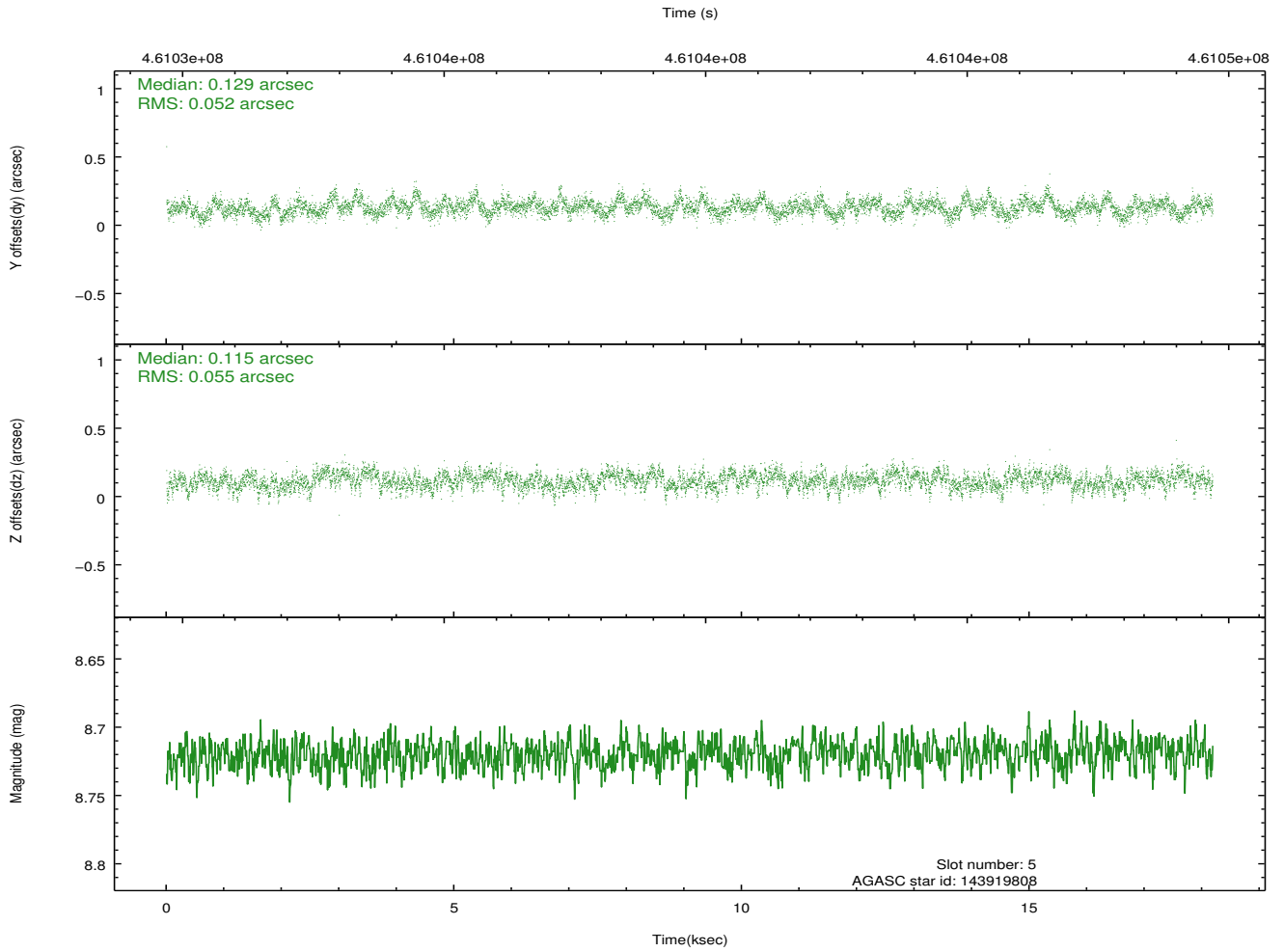
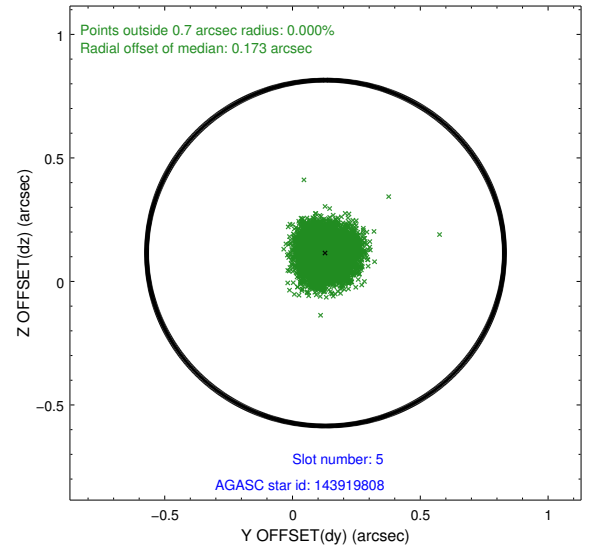
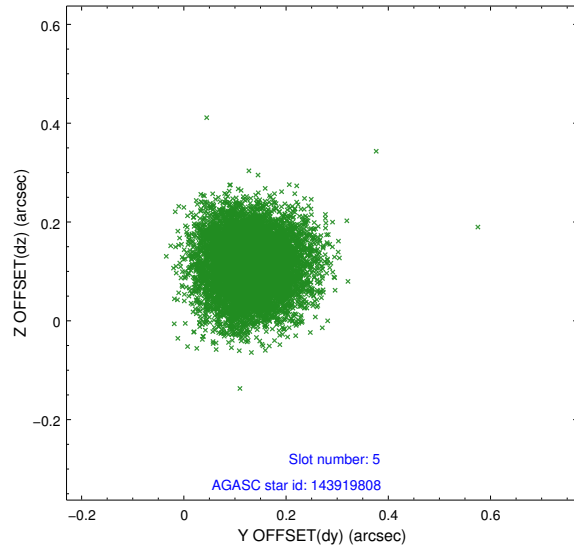
2.4.1 Slot 3



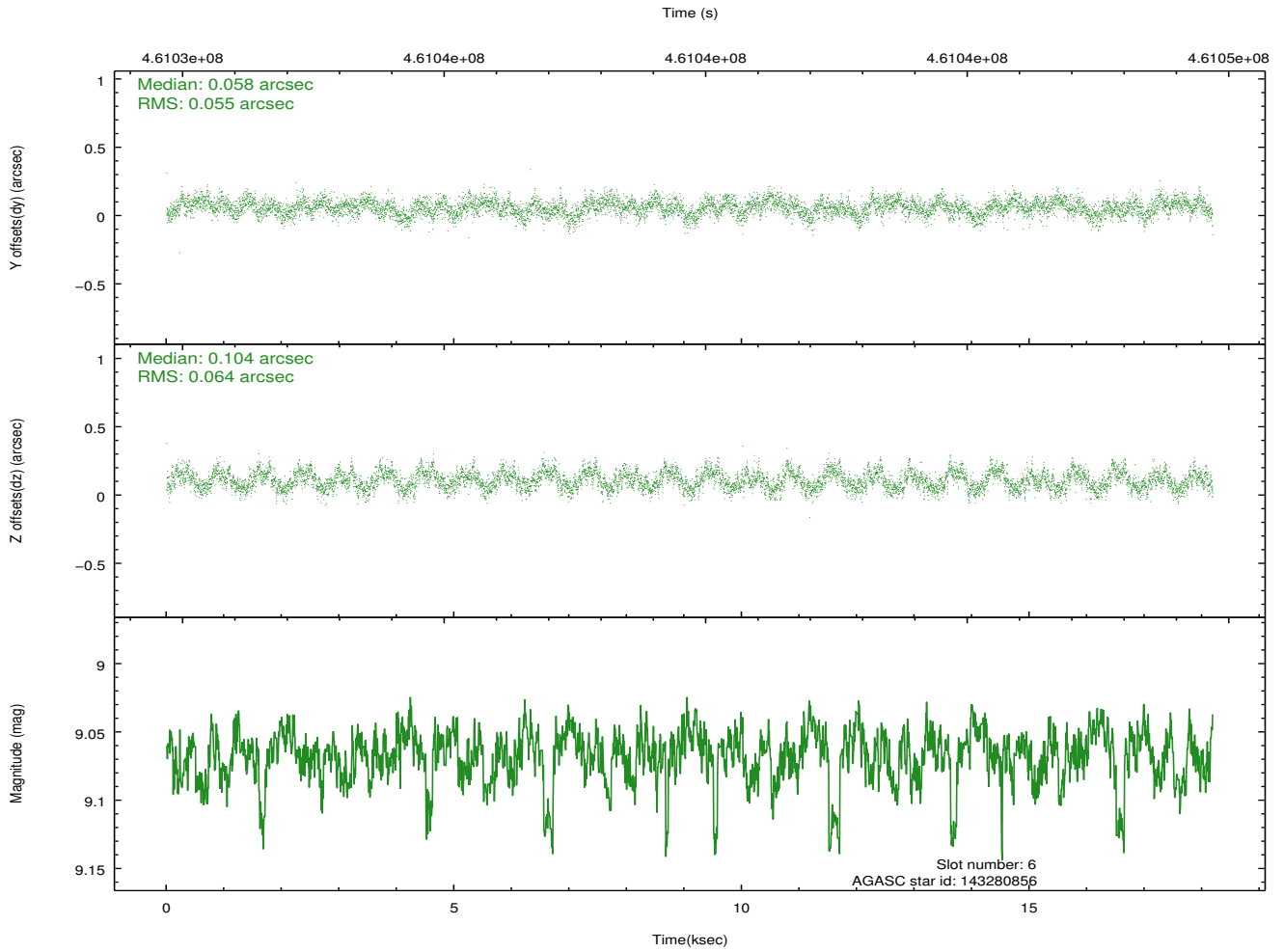
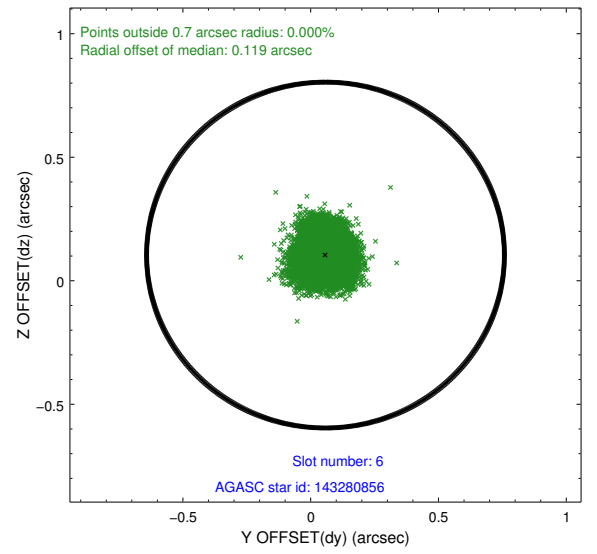
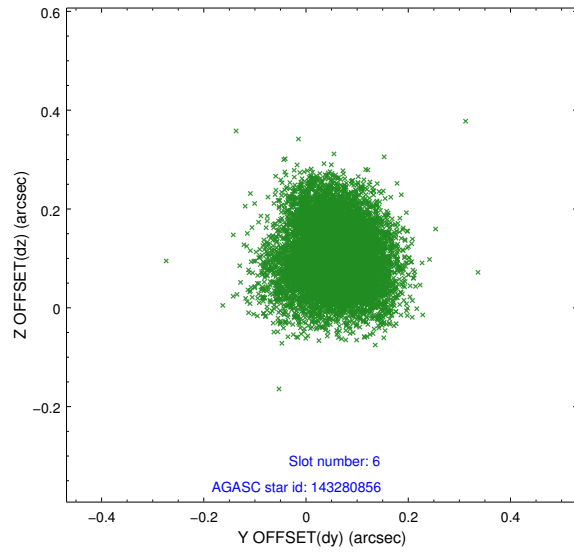
2.4.2 Slot 4



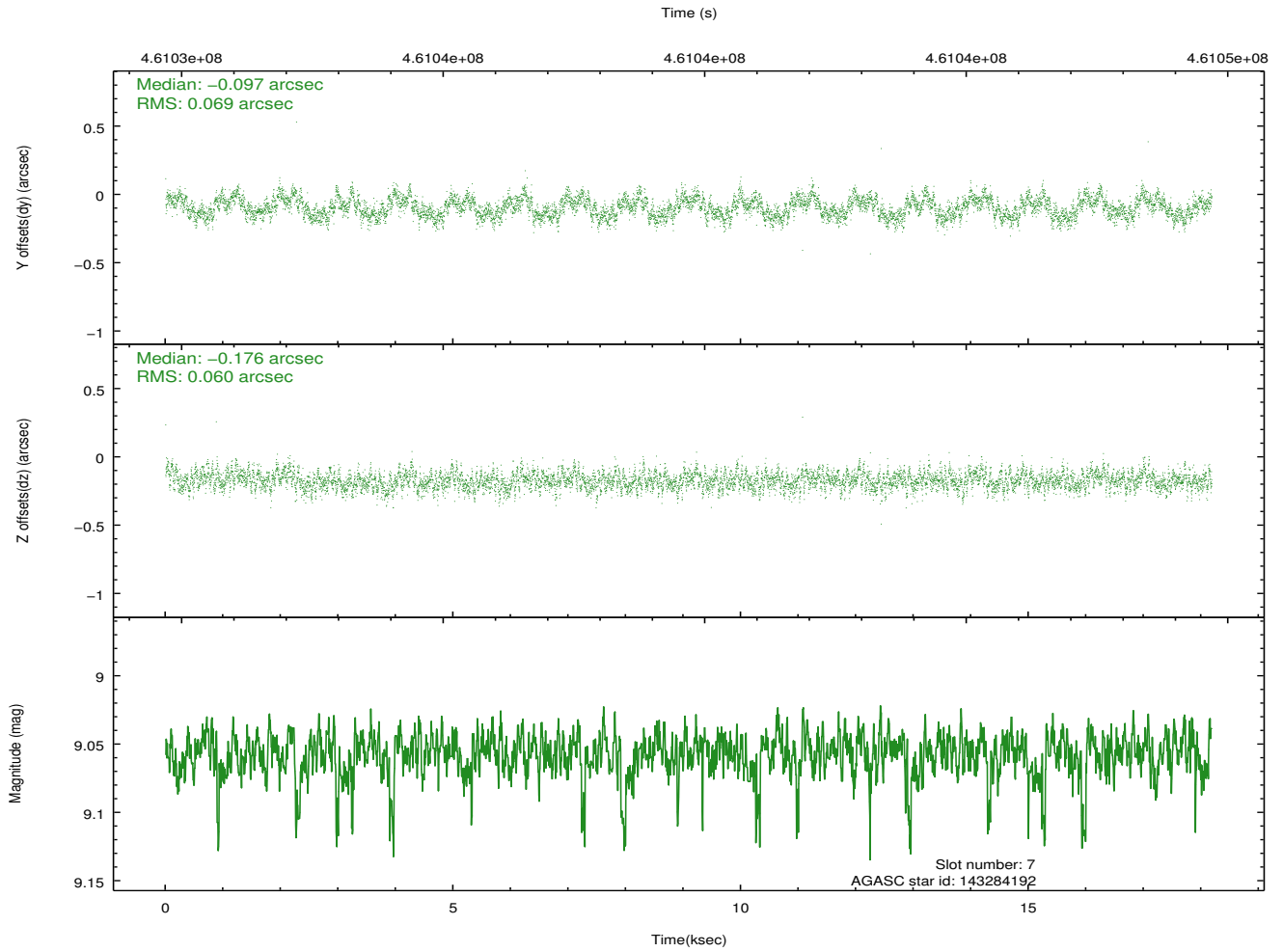
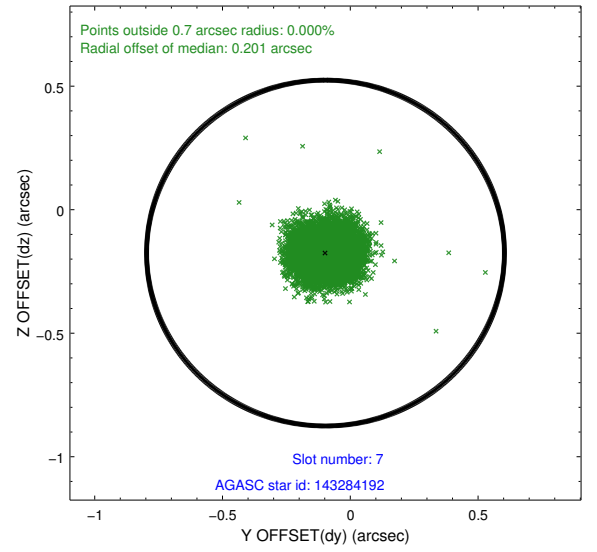
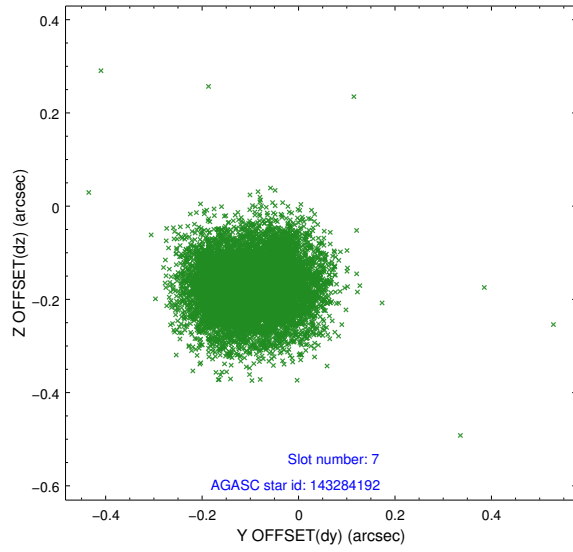
2.4.3 Slot 5



2.4.4 Slot 6

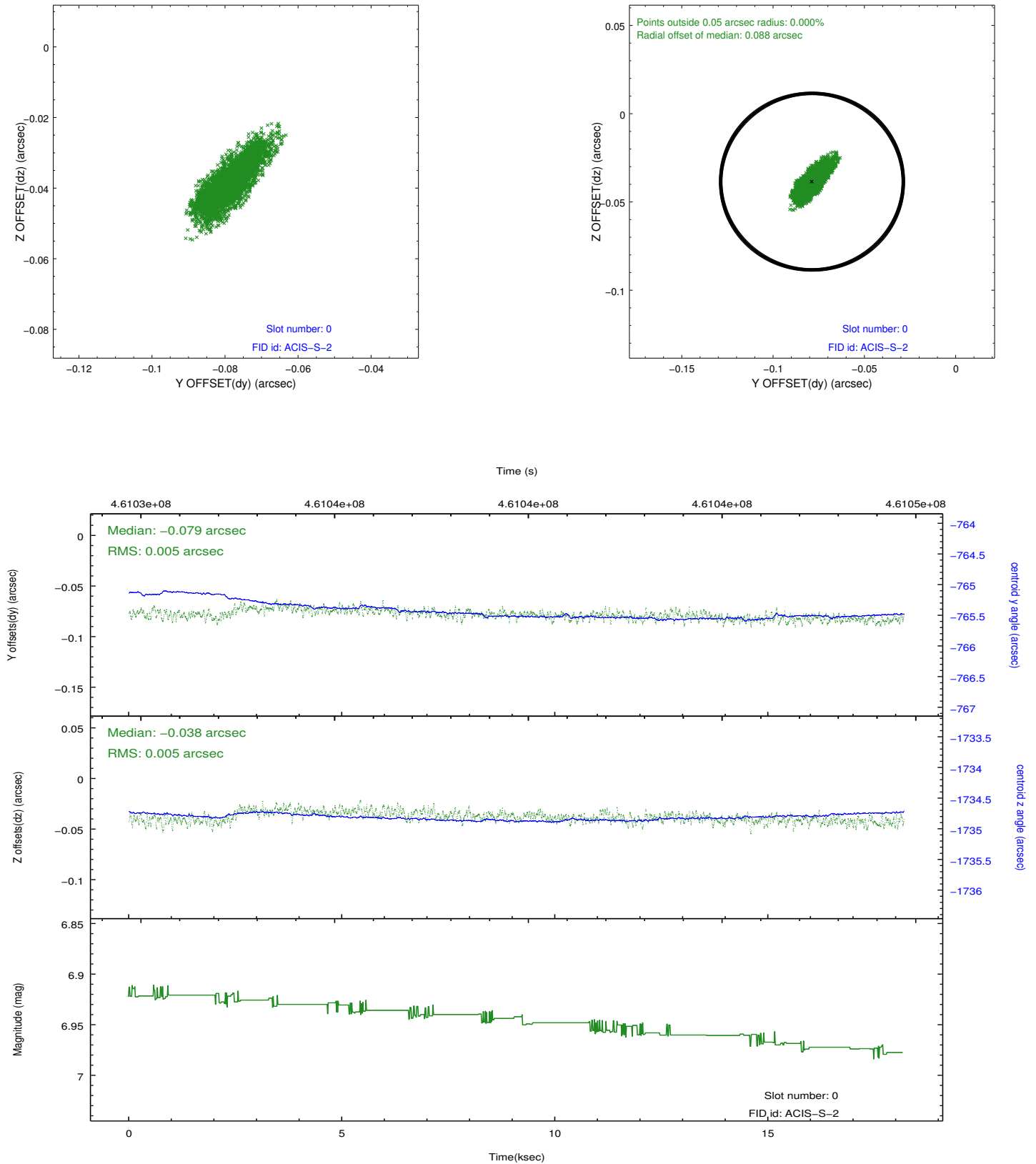


2.4.5 Slot 7

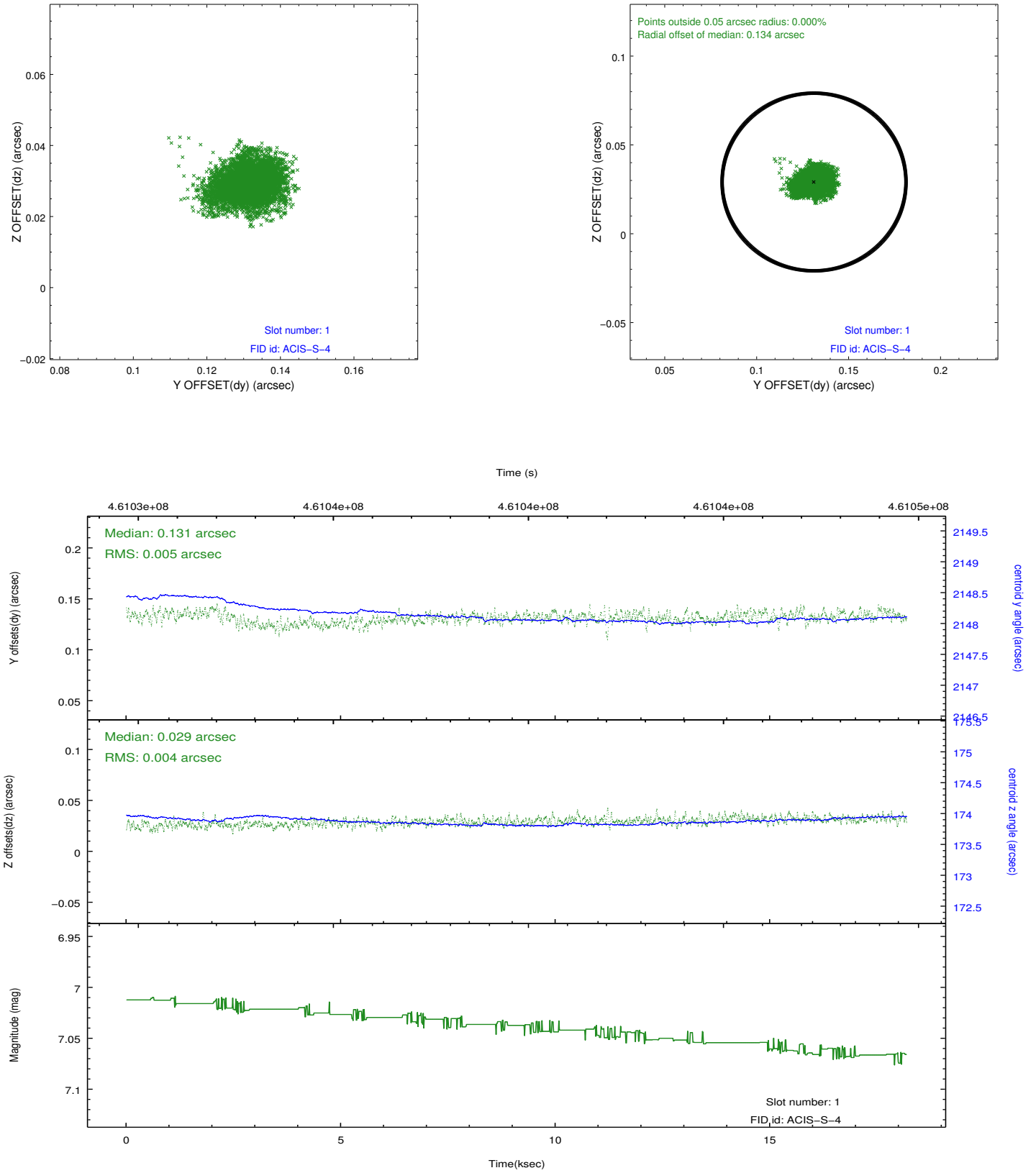


2.5 FID Slots

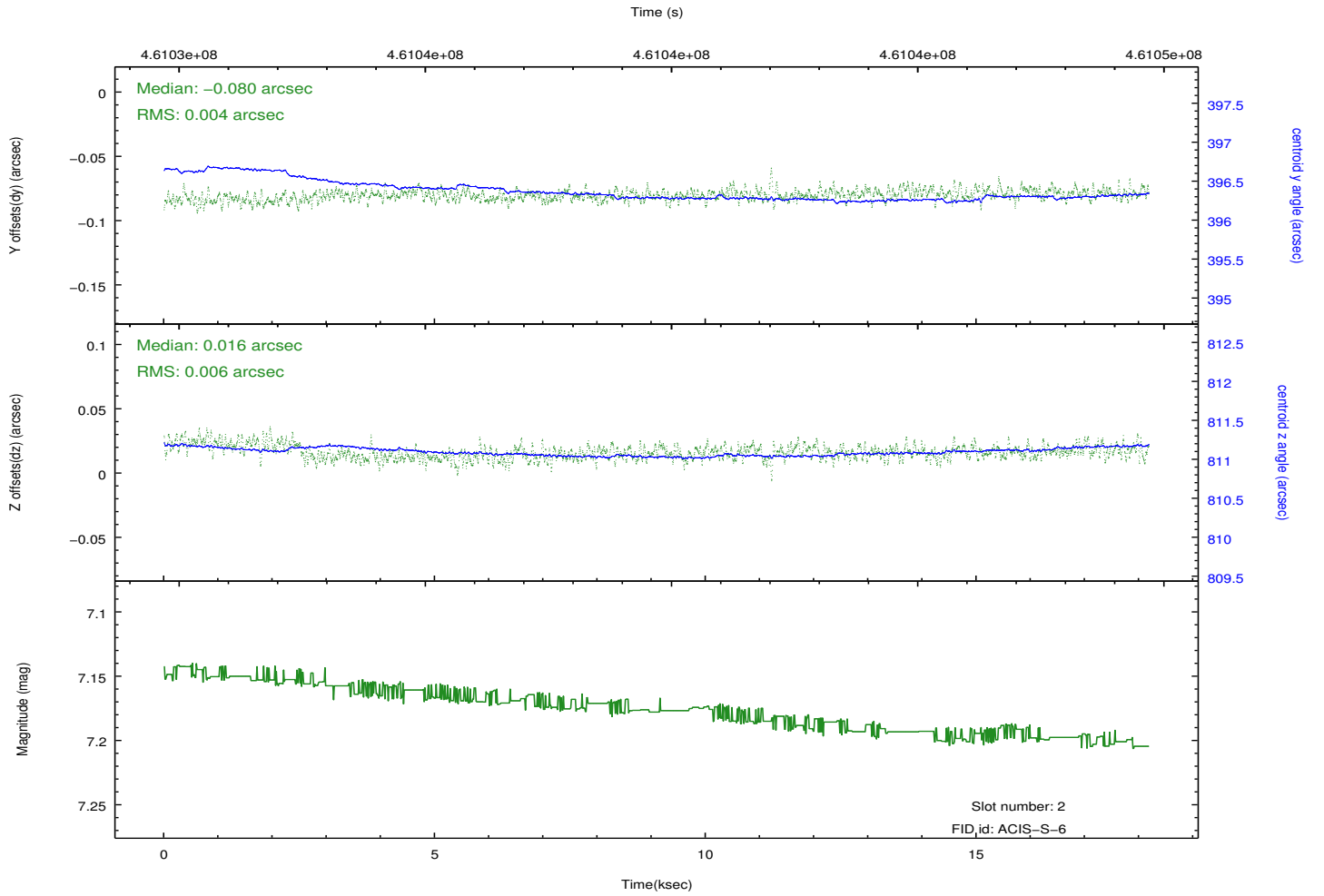
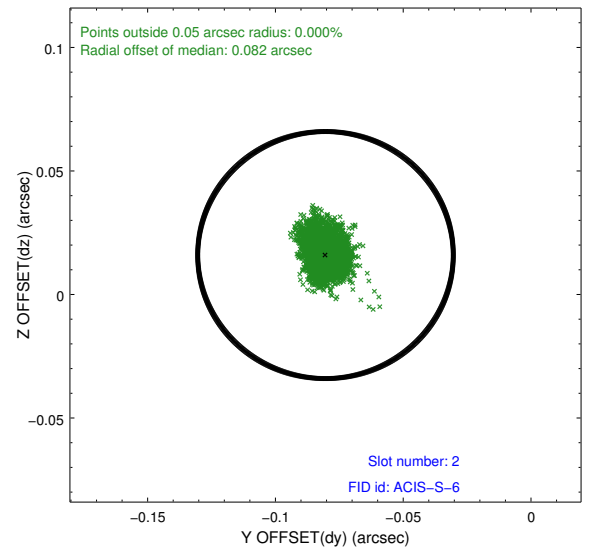
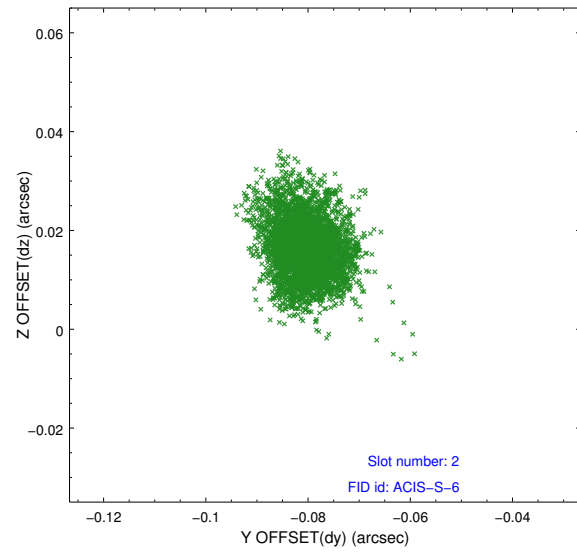
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.964799933136

A.2 Comments