

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12527 - L2 Version 3
Chandra X-Ray Center

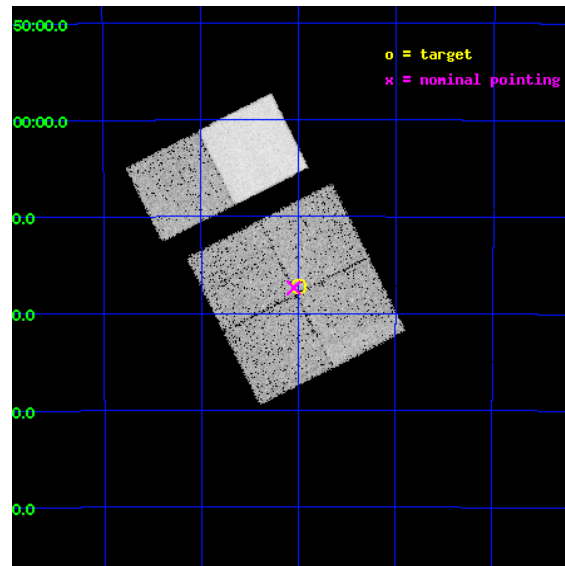
L2 Processing Date : Feb 12 2012

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

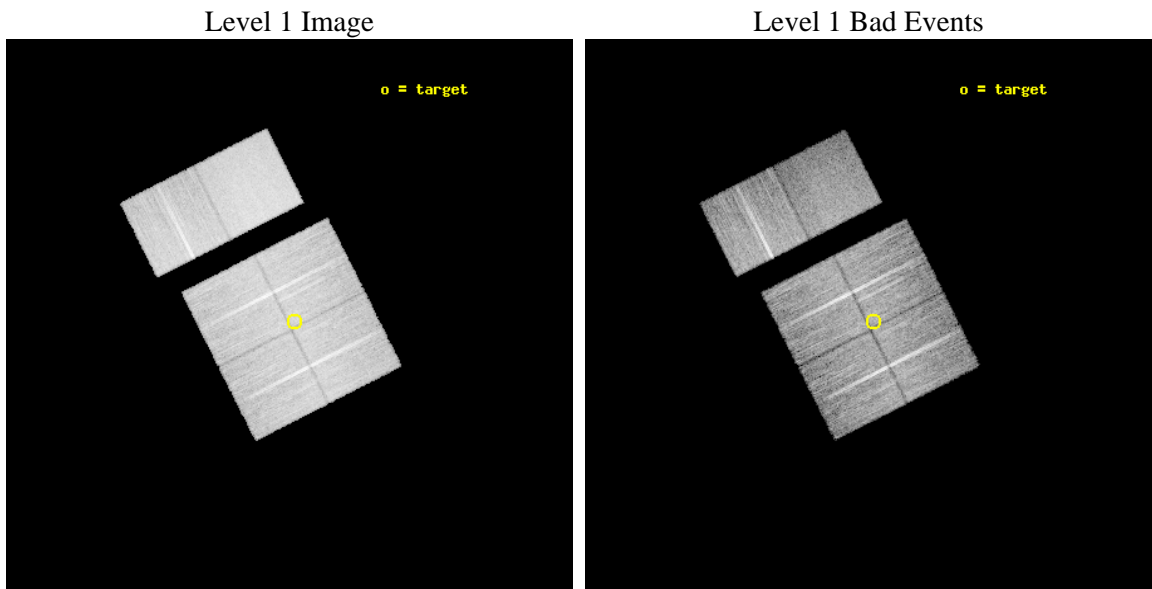
seq_num	401268	Sequence number
obs_id	12527	Observation id
title	Census of the Normal Spiral Arm Region	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	Norma Region	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	248.749852	Observer's specified target RA [deg]
dec_targ	-47.288144	Observer's specified target Dec [deg]
ra_nom	248.76162471674	Nominal RA [deg]
dec_nom	-47.289490991178	Nominal Dec [deg]
roll_nom	333.21735121474	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19554.990395129	Sum of GTIs [s]
livetime	19307.373332144	Livetime [s]
ontime0	19551.626264751	Sum of GTIs [s]
ontime1	19554.908315122	Sum of GTIs [s]
ontime2	19551.708394766	Sum of GTIs [s]
ontime3	19554.990395129	Sum of GTIs [s]
ontime6	19555.072475135	Sum of GTIs [s]
ontime7	19555.031435132	Sum of GTIs [s]
l2events	134059	Number of level 2 events



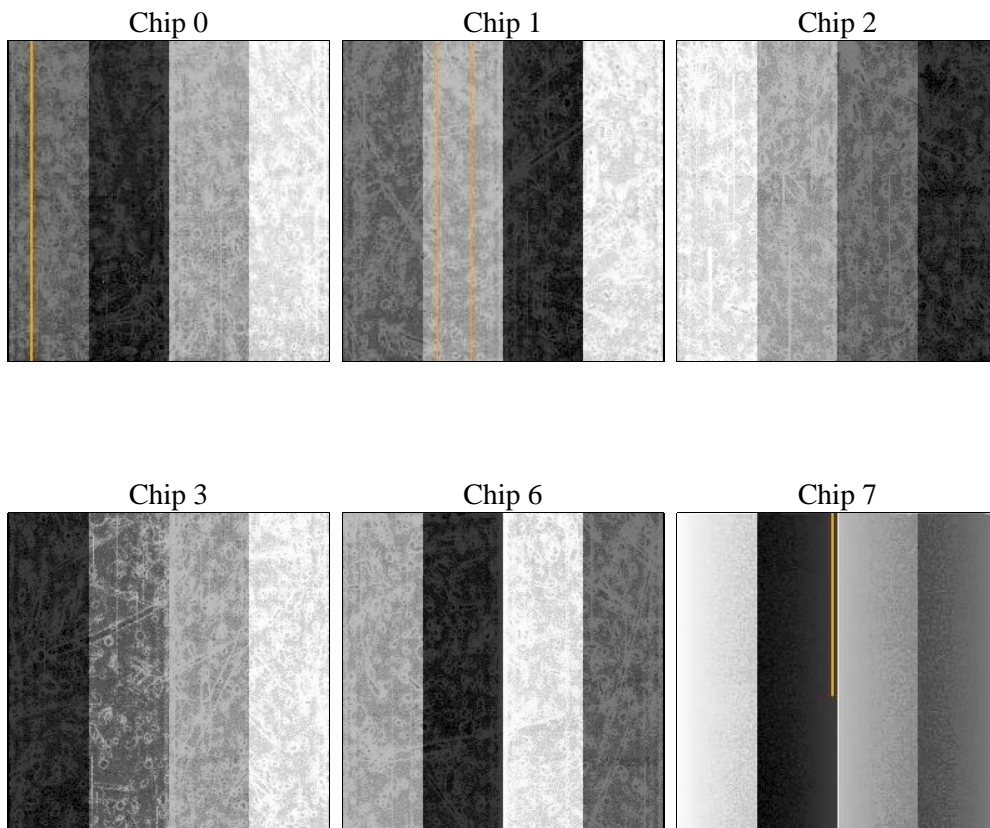
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19554.990395129	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	19551.626264751	Sum of GTIs [s]
date	2012-02-12T11:48:41	Date and time of file creation	ontime1	19554.908315122	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	19551.708394766	Sum of GTIs [s]
			ontime3	19554.990395129	Sum of GTIs [s]
			ontime6	19555.072475135	Sum of GTIs [s]
			ontime7	19555.031435132	Sum of GTIs [s]
			l1events	753281	Number of level 1 events

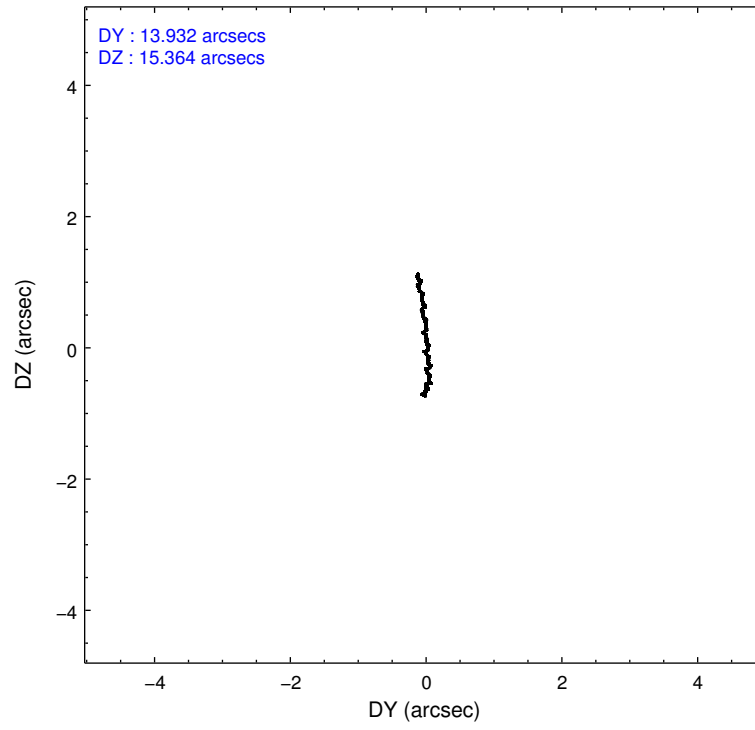
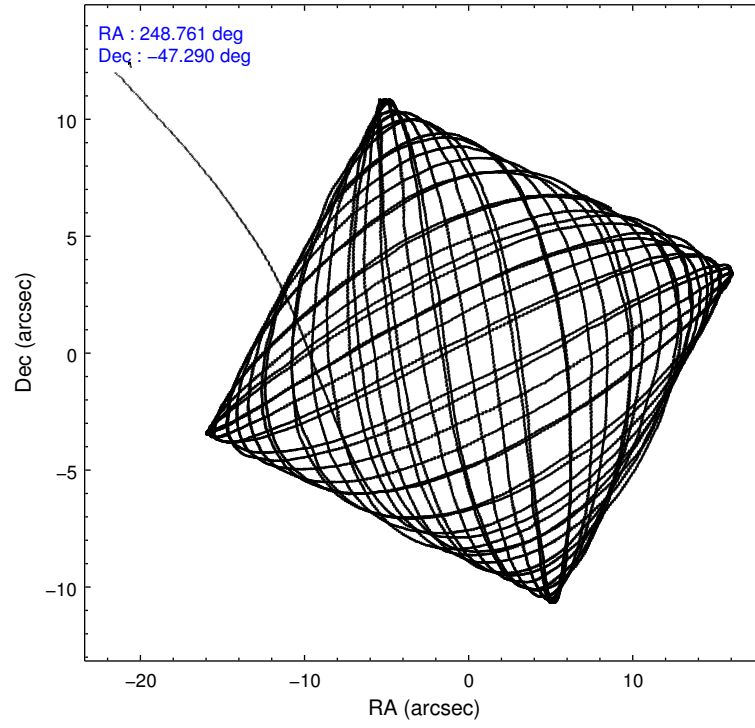
2.1.4 Events

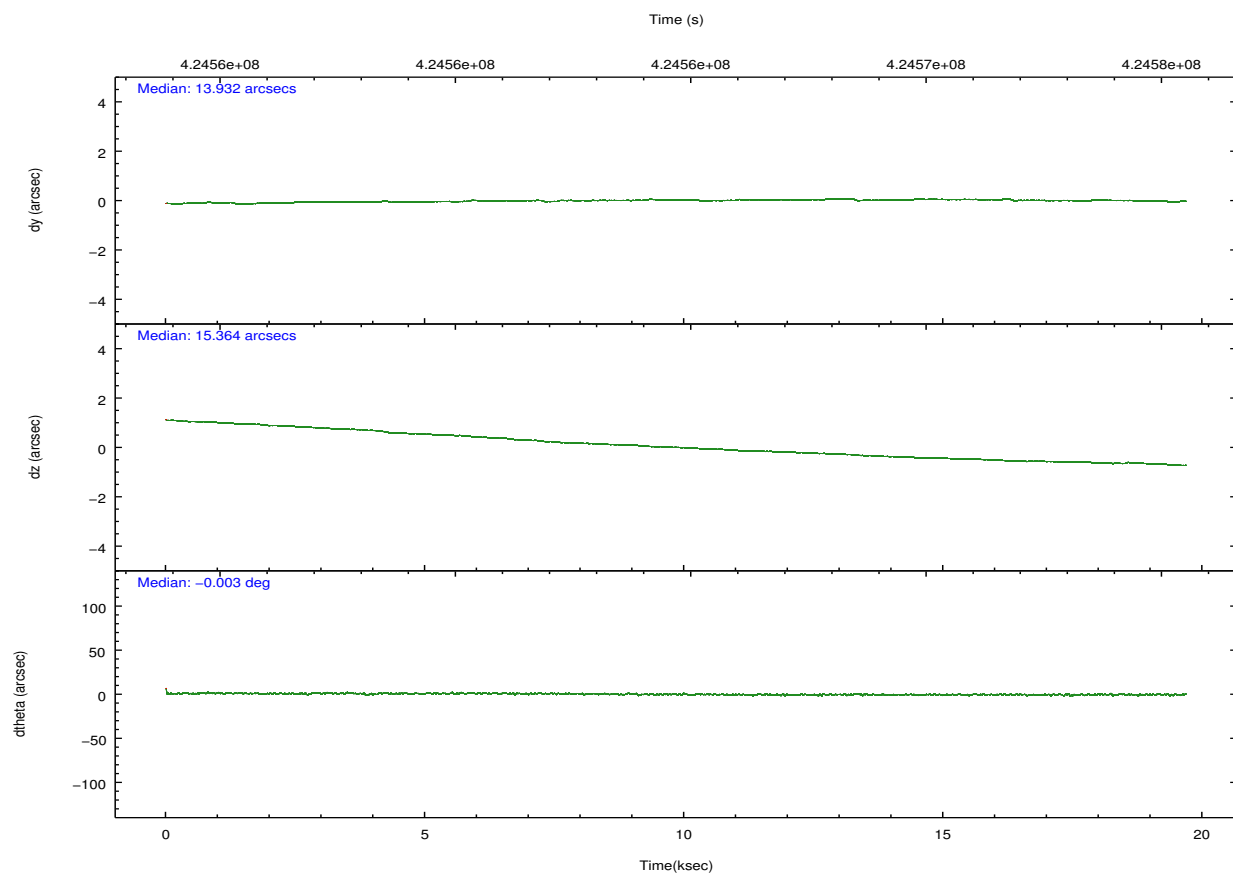
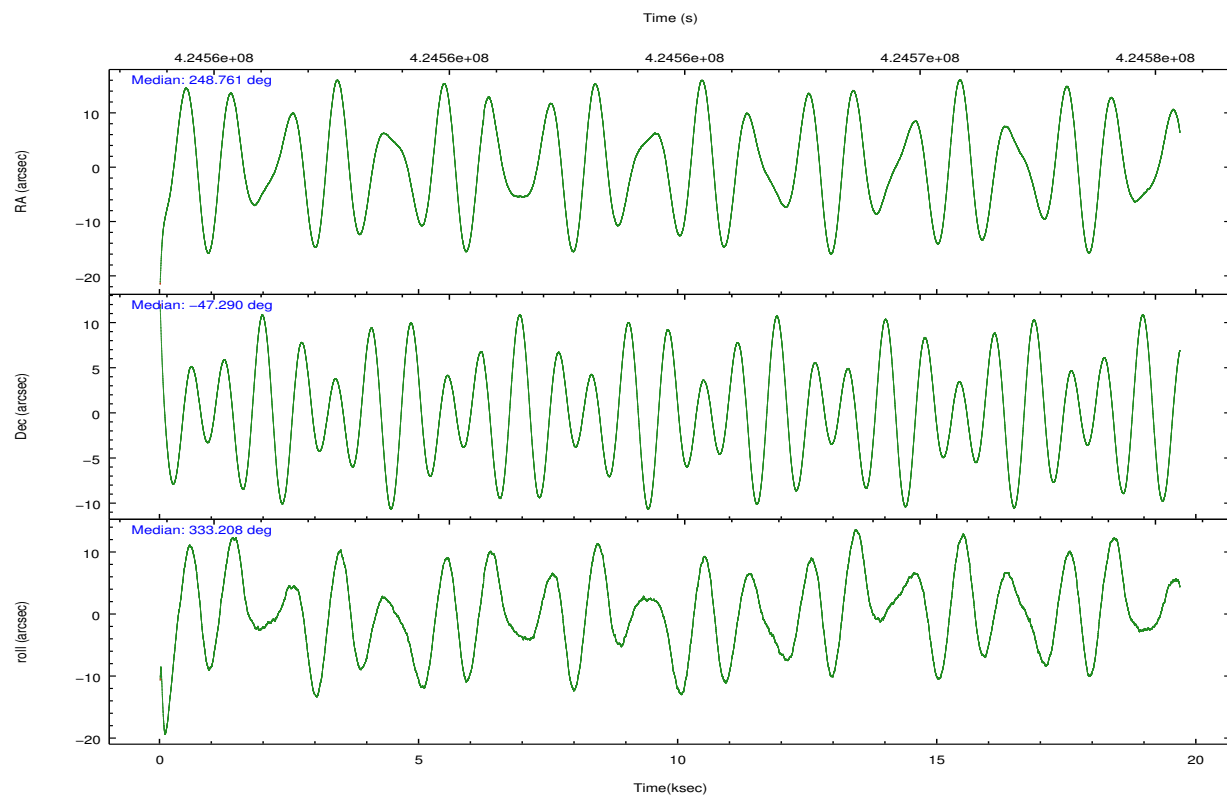
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	112601	116194	123051	118898	126387	156150	grade 0 events	5809	6637	5925	5523	5598	6637
rejected events	97462	99224	108047	104607	111234	85323		5%	5%	4%	4%	4%	4%
rejected %	86%	85%	87%	87%	88%	54%	grade 1 events	72	79	72	69	60	189
								0%	0%	0%	0%	0%	0%
							grade 2 events	3589	3793	3471	3063	3353	14266
								3%	3%	2%	2%	2%	9%
							grade 3 events	1501	1590	1459	1520	1439	6358
								1%	1%	1%	1%	1%	4%
							grade 4 events	1421	1675	1492	1471	1501	6238
								1%	1%	1%	1%	1%	3%
							grade 5 events	5130	5479	4770	5730	5819	16481
								4%	4%	3%	4%	4%	10%
							grade 6 events	2823	3276	2657	2716	3265	37339
								2%	2%	2%	2%	2%	23%
							grade 7 events	92256	93665	103205	98806	105352	68642
								81%	80%	83%	83%	83%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	248.721139	248.7616247167384	CCD I2 on	Y	Y
[deg] Pointing Dec	-47.291116	-47.28949099117758	CCD I3 on	Y	Y
[deg] Pointing Roll	332.978901	333.2173512147441	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	424555041.184000	424553806.67768	CCD S5 on	N	N
Observation start date	2011-06-15T19:56:15	2011-06-15T19:36:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	424574541.184000	424574675.16626	On-chip summing requested	N	N
Observation end date	2011-06-16T01:21:15	2011-06-16T01:24:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



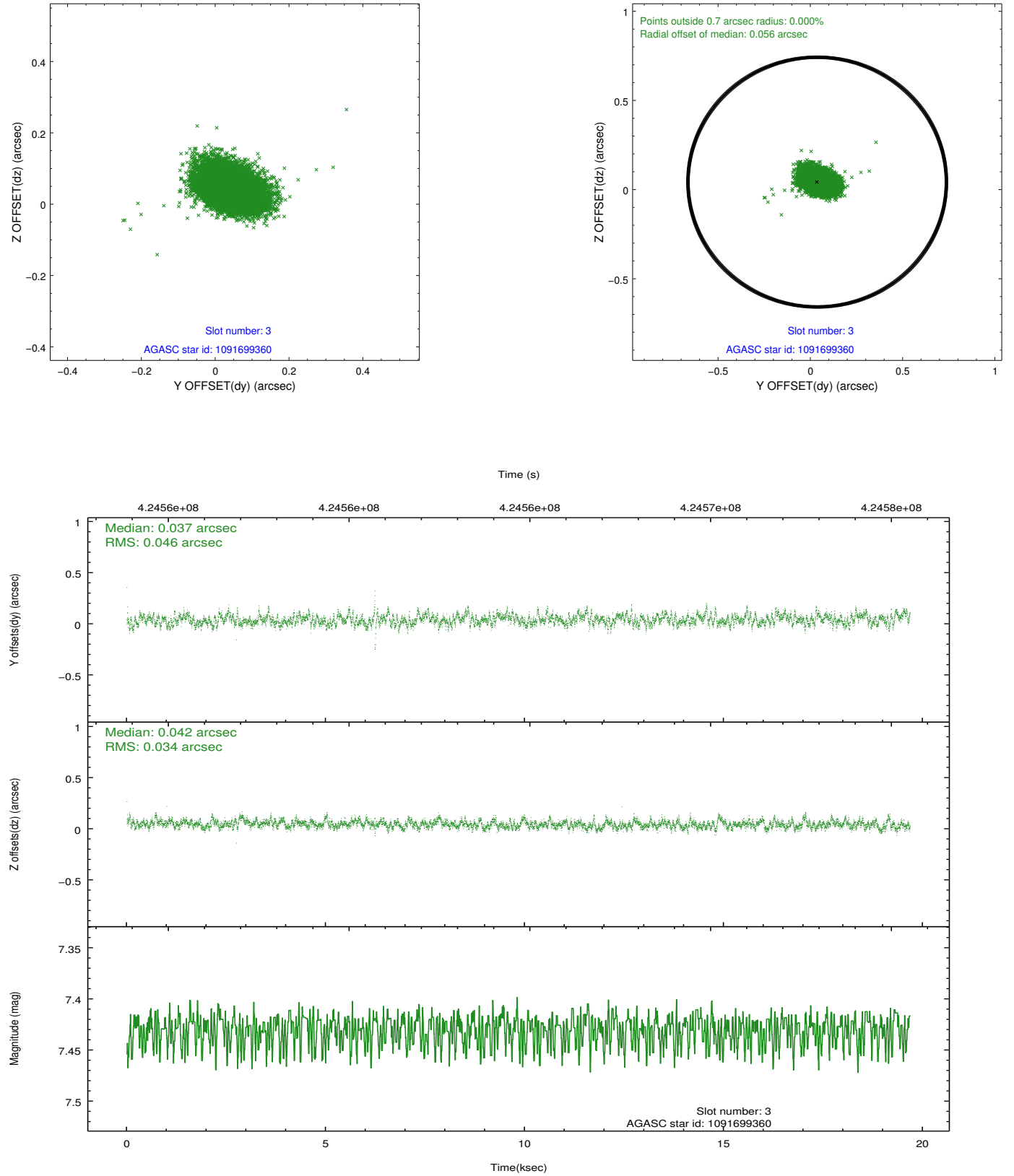


Slot Statistics

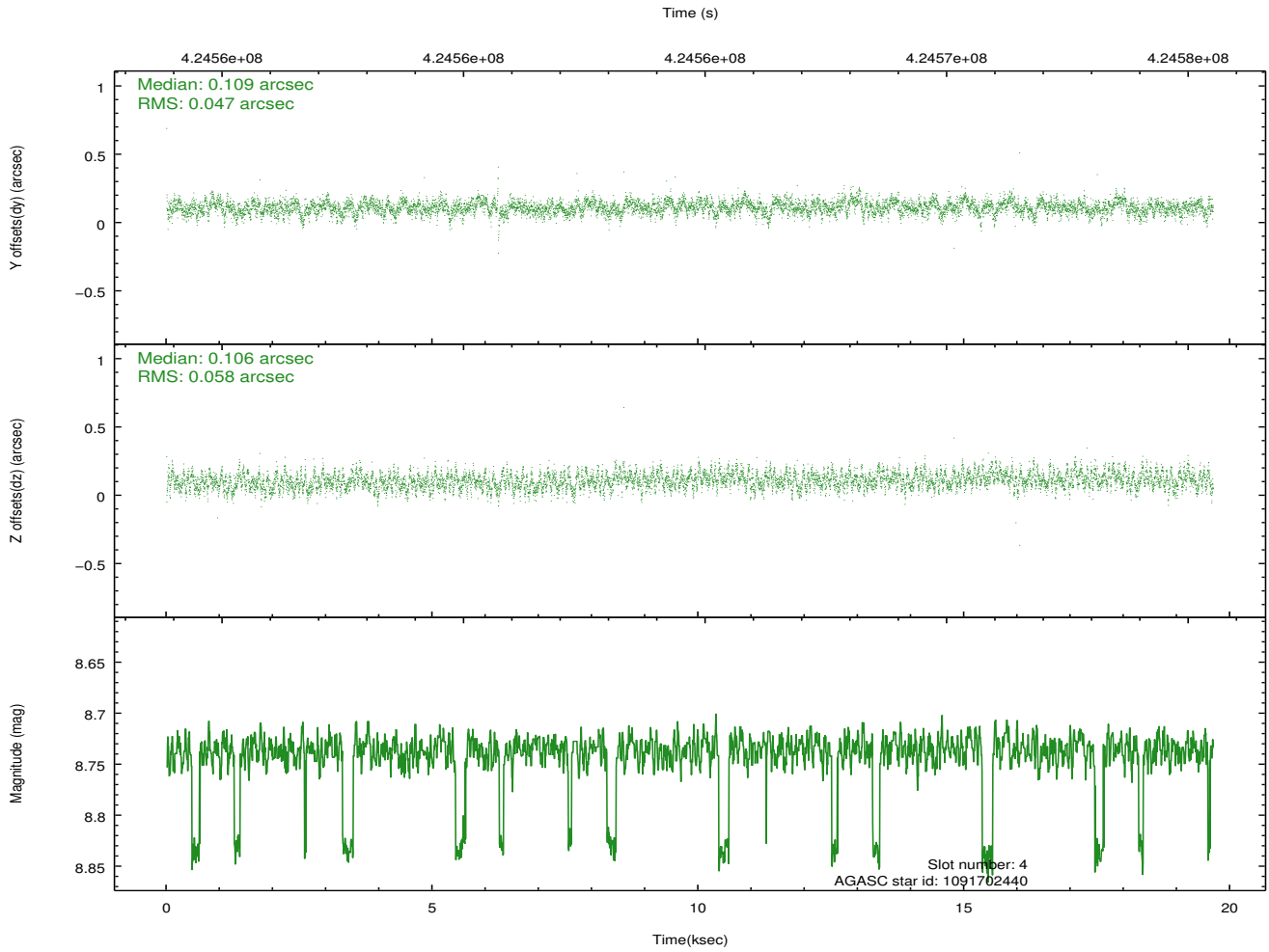
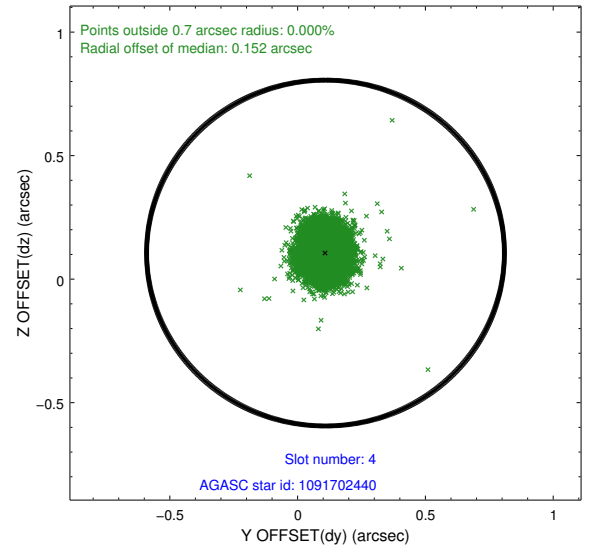
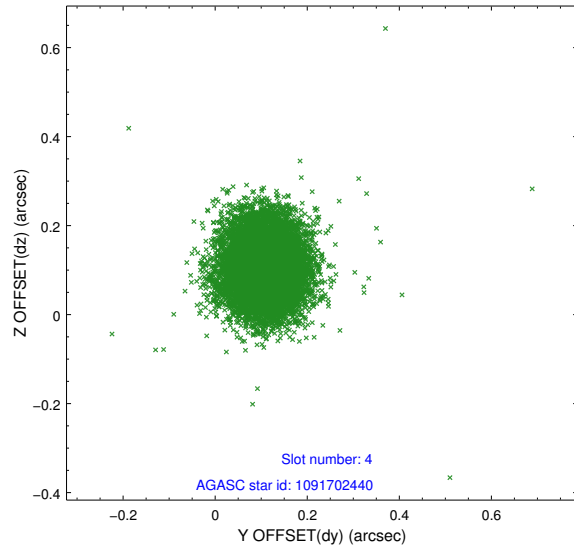
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	4801	-0.001	-0.033	0.050	0.089	0.000000	0.000000	925.58	-839.08
1	FID	ACIS-I-4	6.94	4800	0.160	0.048	0.032	0.059	0.000000	0.000000	2145.87	1060.75
2	FID	ACIS-I-5	7.02	4801	-0.255	0.056	0.022	0.034	0.000000	0.000000	-1822.45	1058.77
3	GUIDE	1091699360	7.43	9600	0.037	0.042	0.059	0.100	248.660725	-47.004364	-601.02	852.39
4	GUIDE	1091702440	8.74	9550	0.109	0.106	0.079	0.127	248.295809	-47.683380	-274.99	-1728.69
5	GUIDE	1091705224	9.20	9566	-0.137	0.078	0.088	0.148	248.613211	-47.940846	831.21	-2202.05
6	GUIDE	1091709768	7.73	9601	-0.122	0.042	0.066	0.105	249.435228	-47.706899	2225.12	-554.40
7	GUIDE	1091204664	8.38	9594	0.109	-0.269	0.072	0.116	248.658352	-46.526357	-1389.24	2381.63

2.4 Star Slots

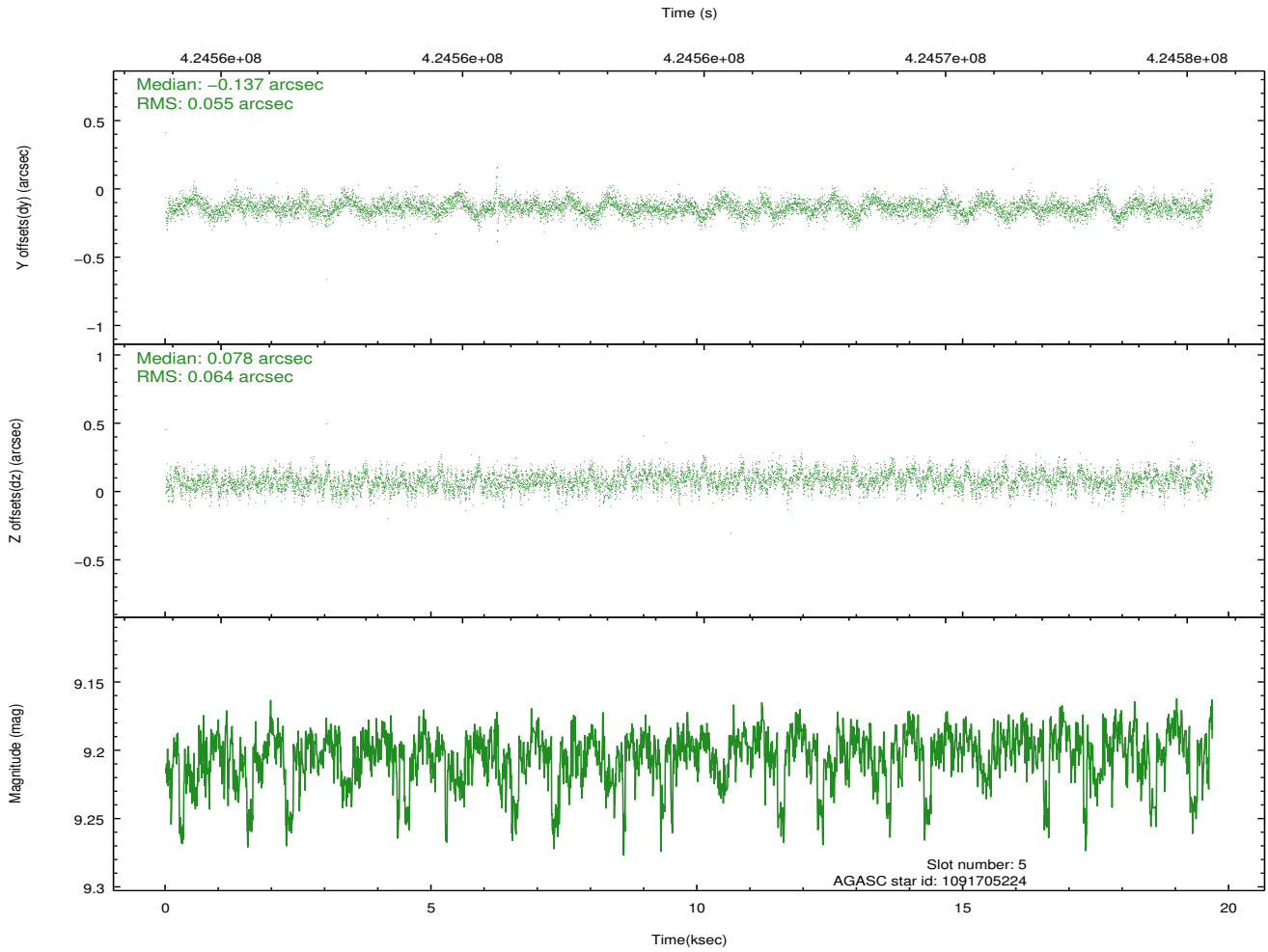
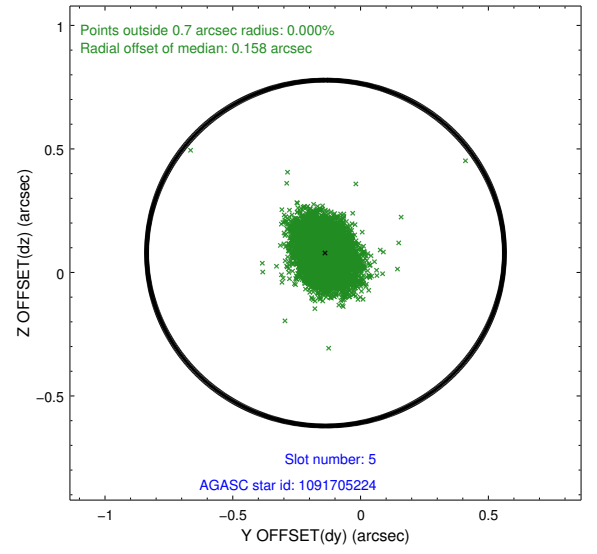
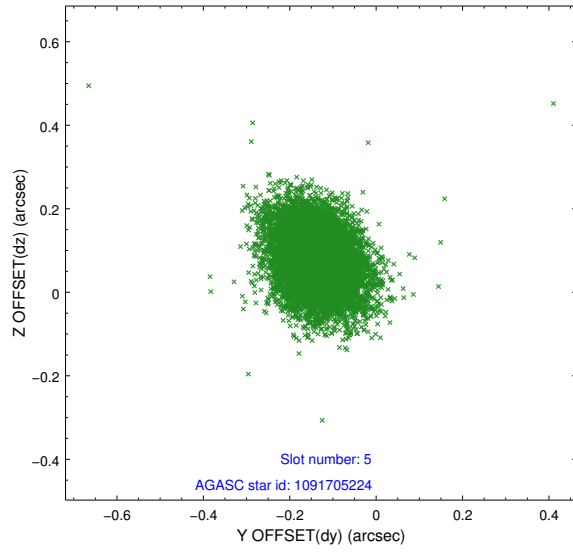
2.4.1 Slot 3



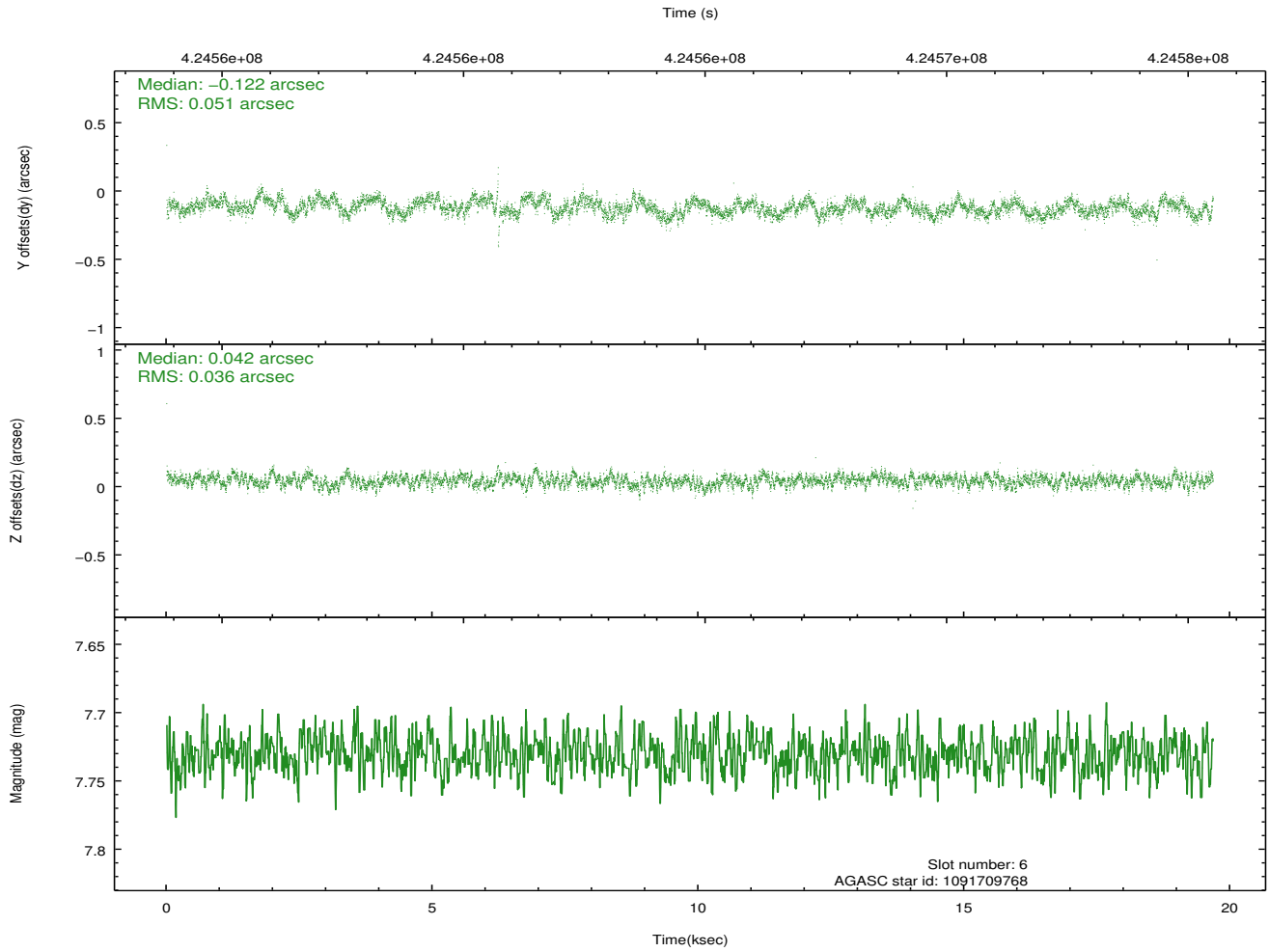
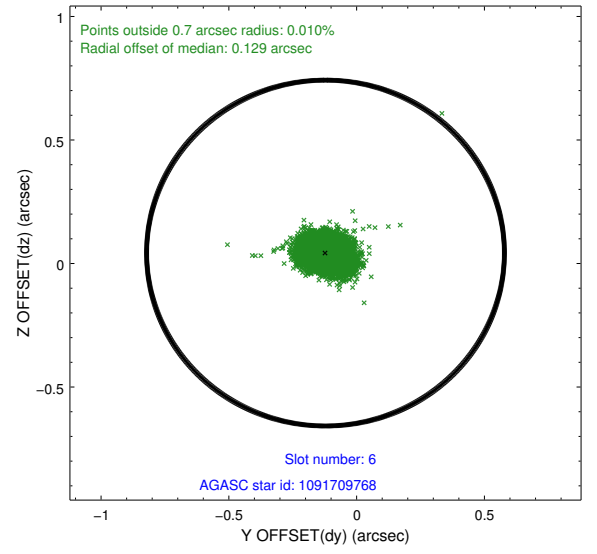
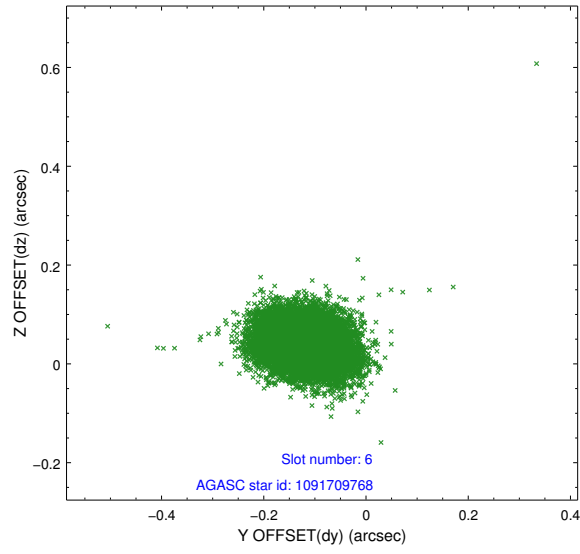
2.4.2 Slot 4



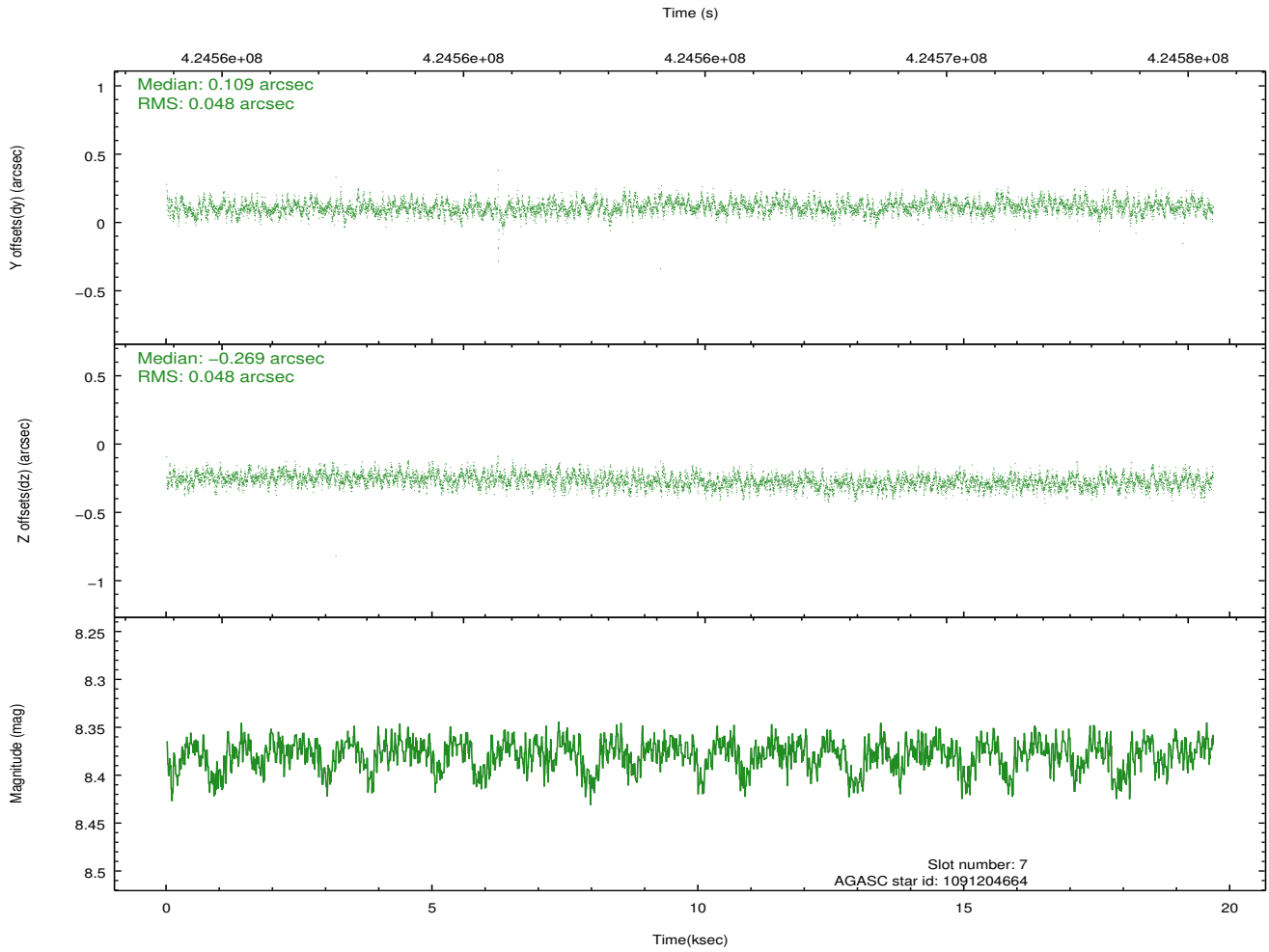
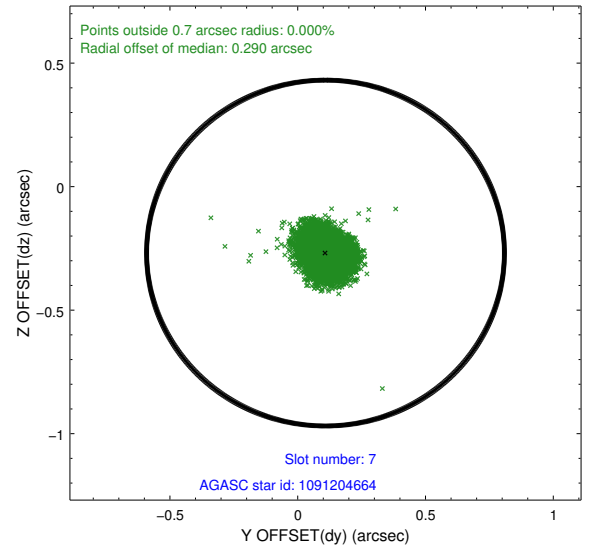
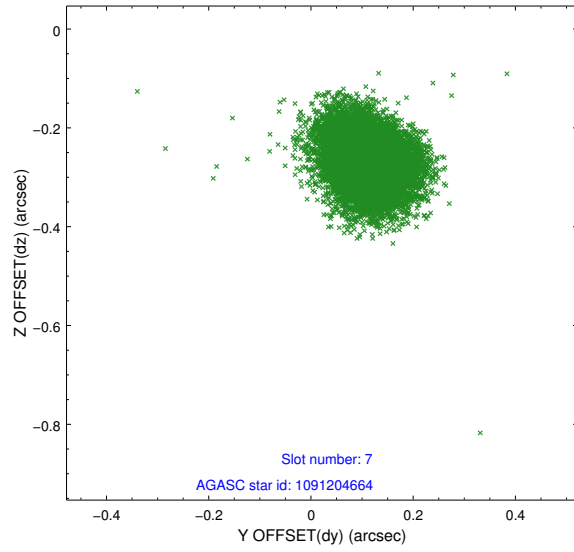
2.4.3 Slot 5



2.4.4 Slot 6

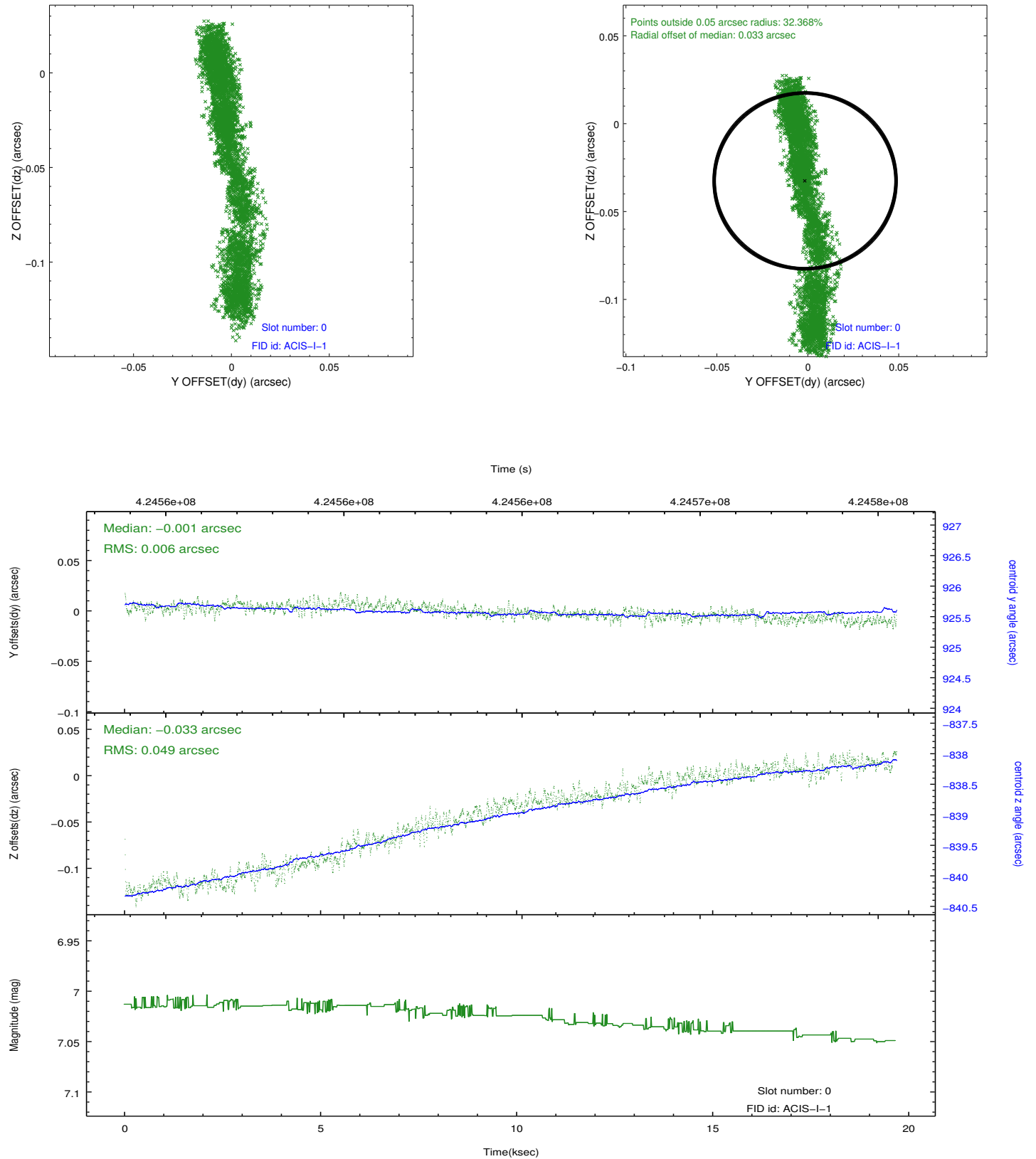


2.4.5 Slot 7

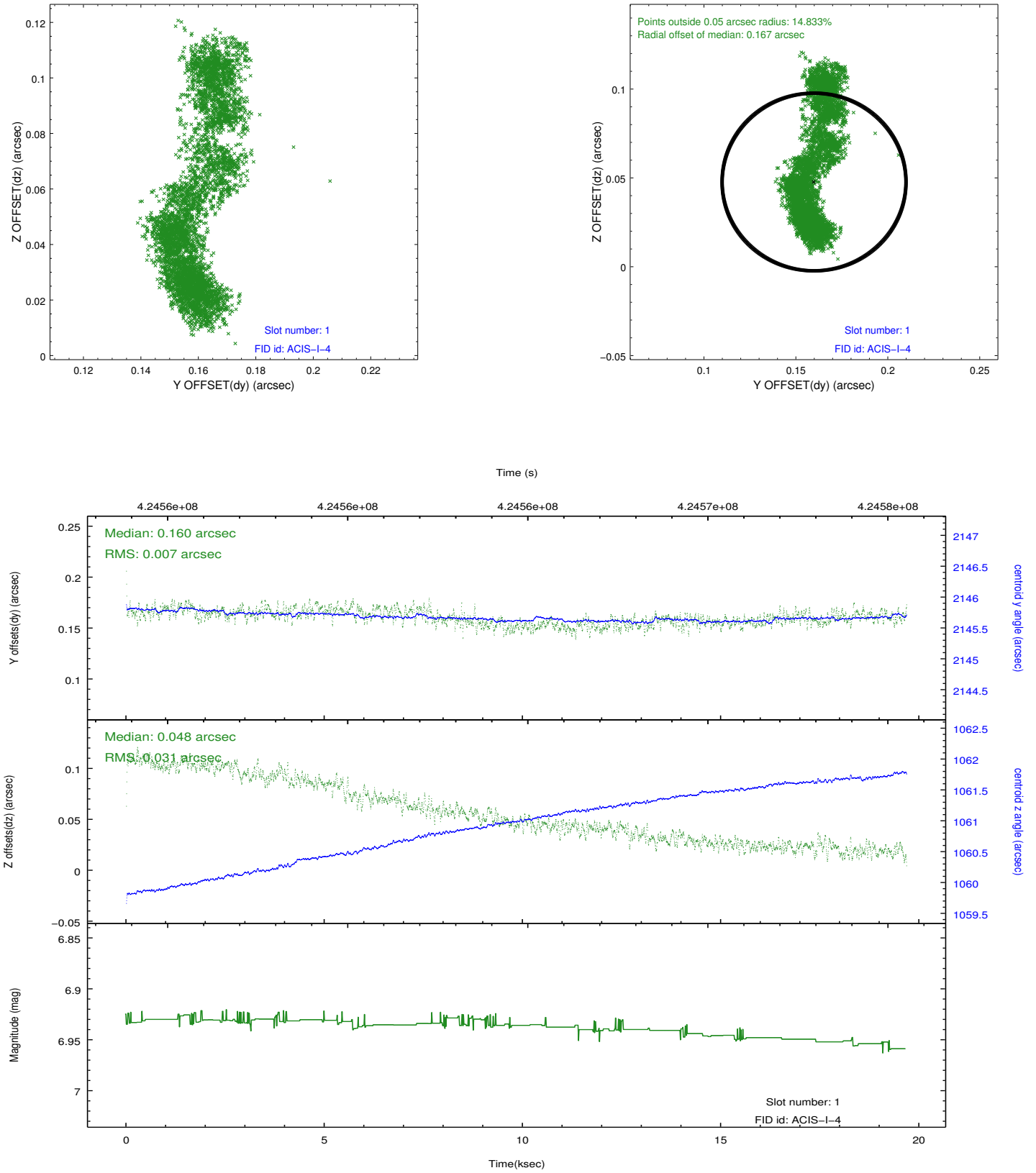


2.5 FID Slots

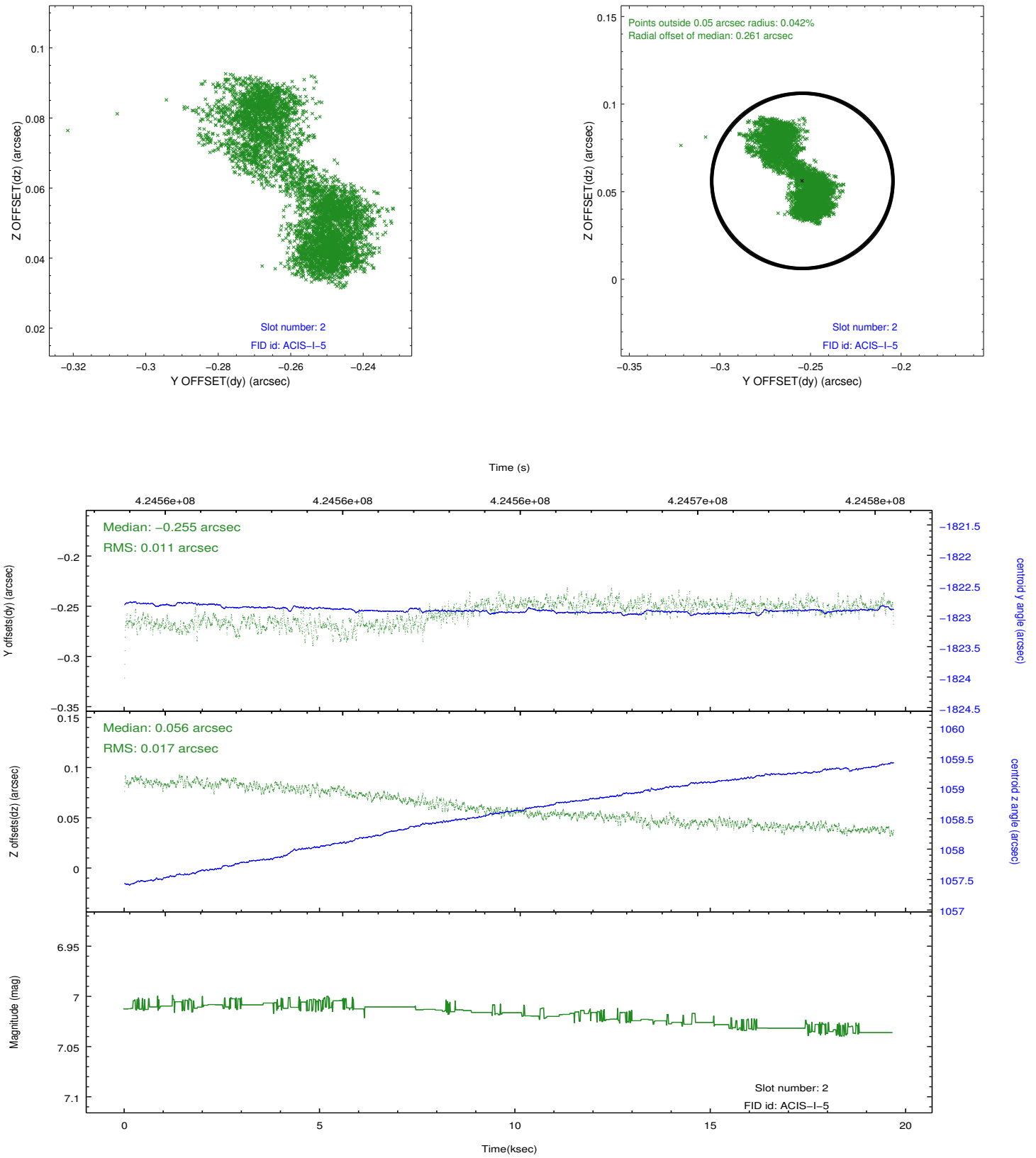
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.554990391493

A.2 Comments

Joint proposal with NOAO.