

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8098 - L2 Version 2
Chandra X-Ray Center

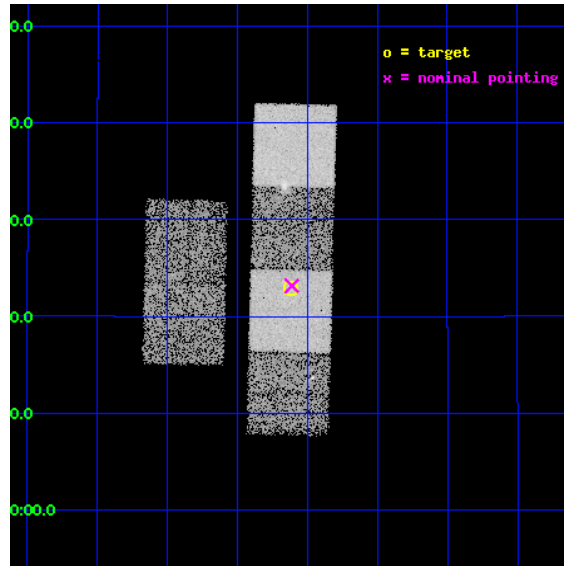
L2 Processing Date : May 10 2012

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1 Front

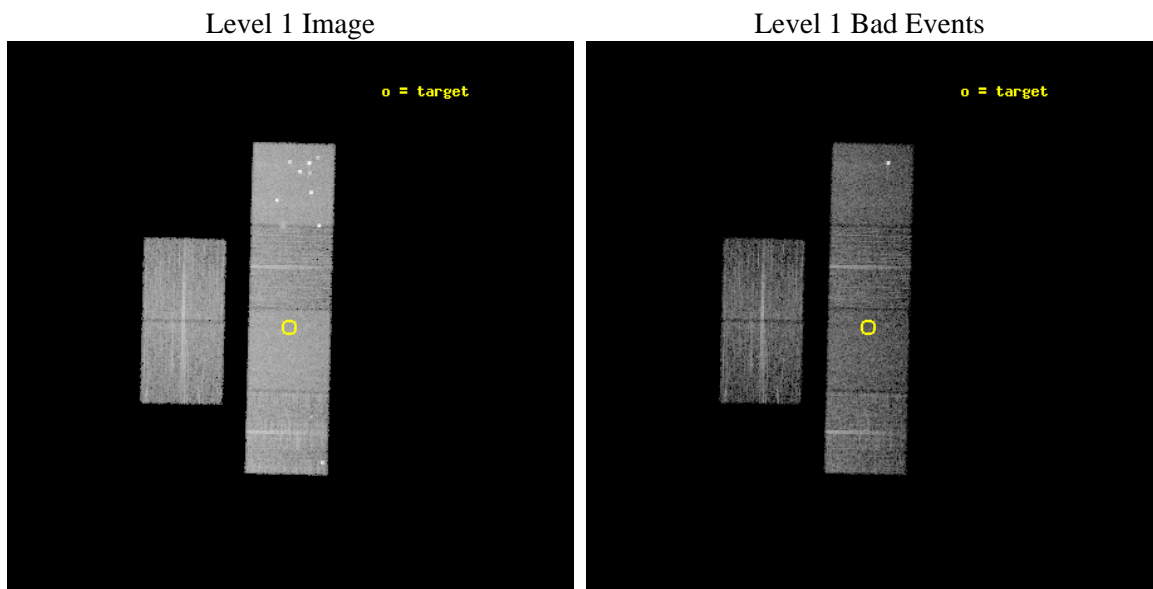
seq_num	900639	Sequence number
obs_id	8098	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1627	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.905417	Observer's specified target RA [deg]
dec_targ	12.381917	Observer's specified target Dec [deg]
ra_nom	188.90264841774	Nominal RA [deg]
dec_nom	12.385966592287	Nominal Dec [deg]
roll_nom	91.395487188399	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5151.917939961	Sum of GTIs [s]
l2events	85047	Number of level 2 events



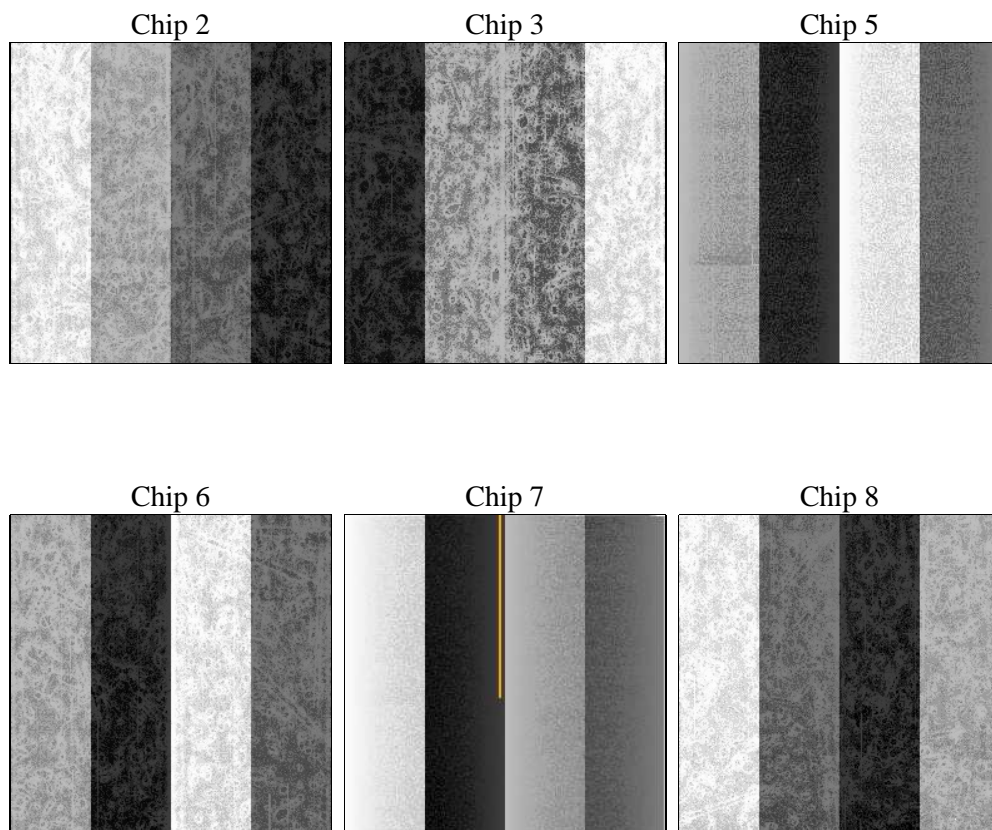
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.3999808431	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-10T08:32:41	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5151.917939961	Sum of GTIs [s]
			l1events	376079	Number of level 1 events

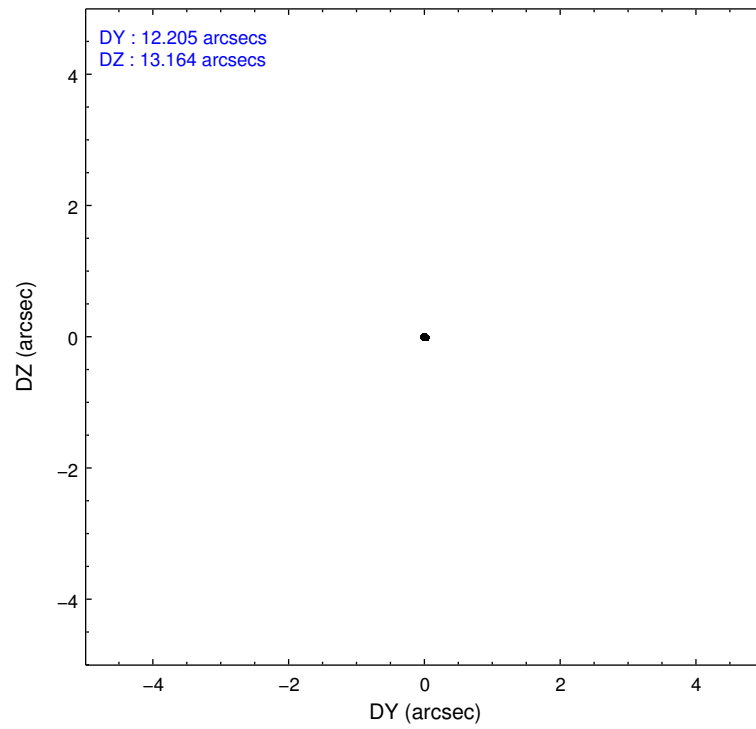
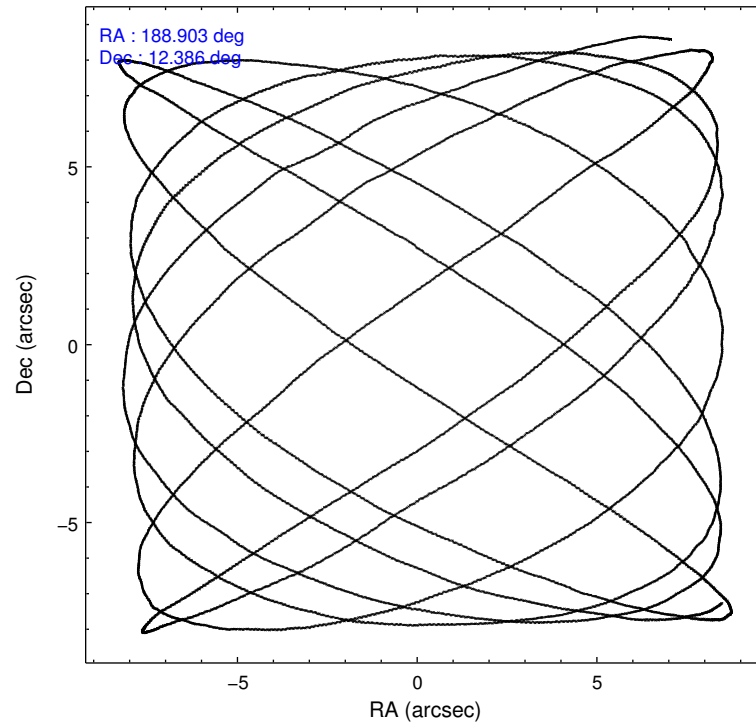
2.1.4 Events

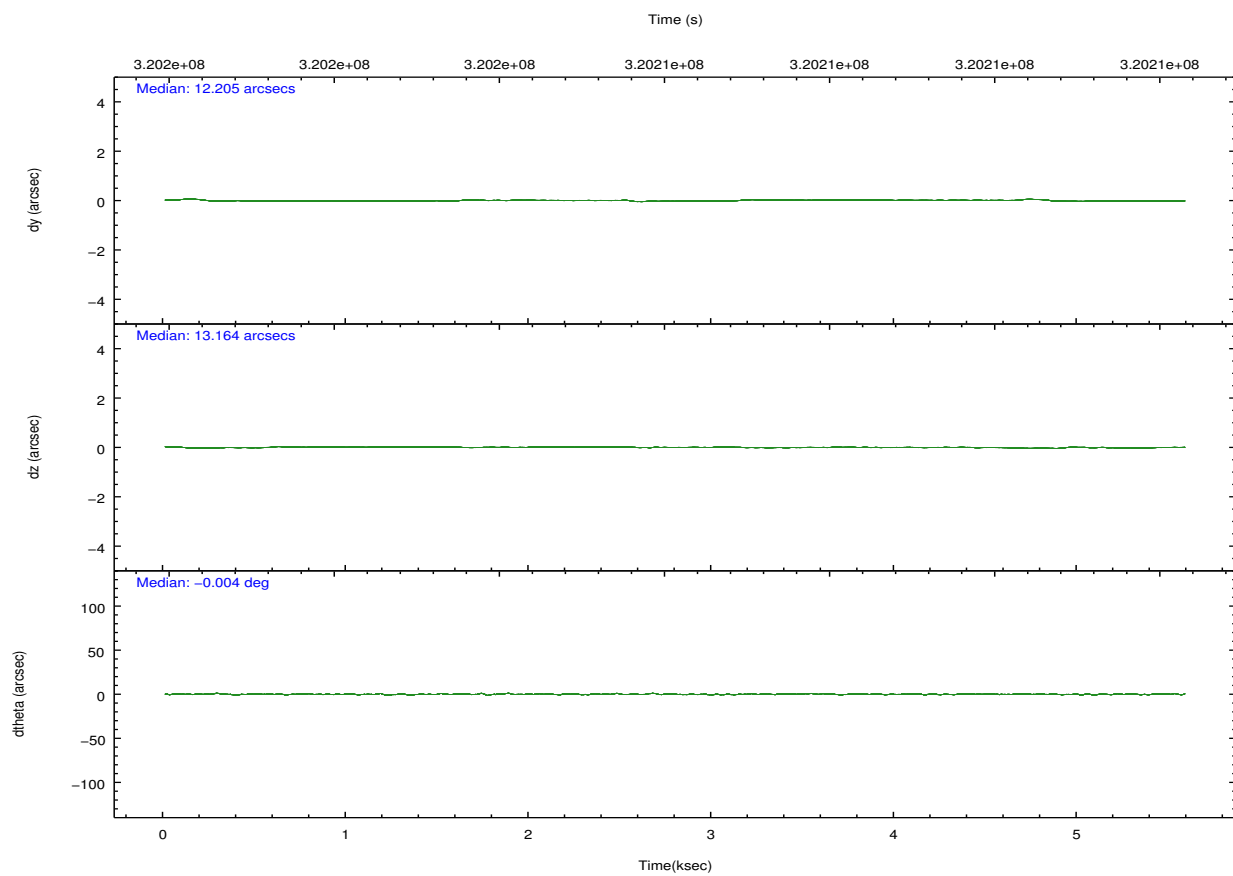
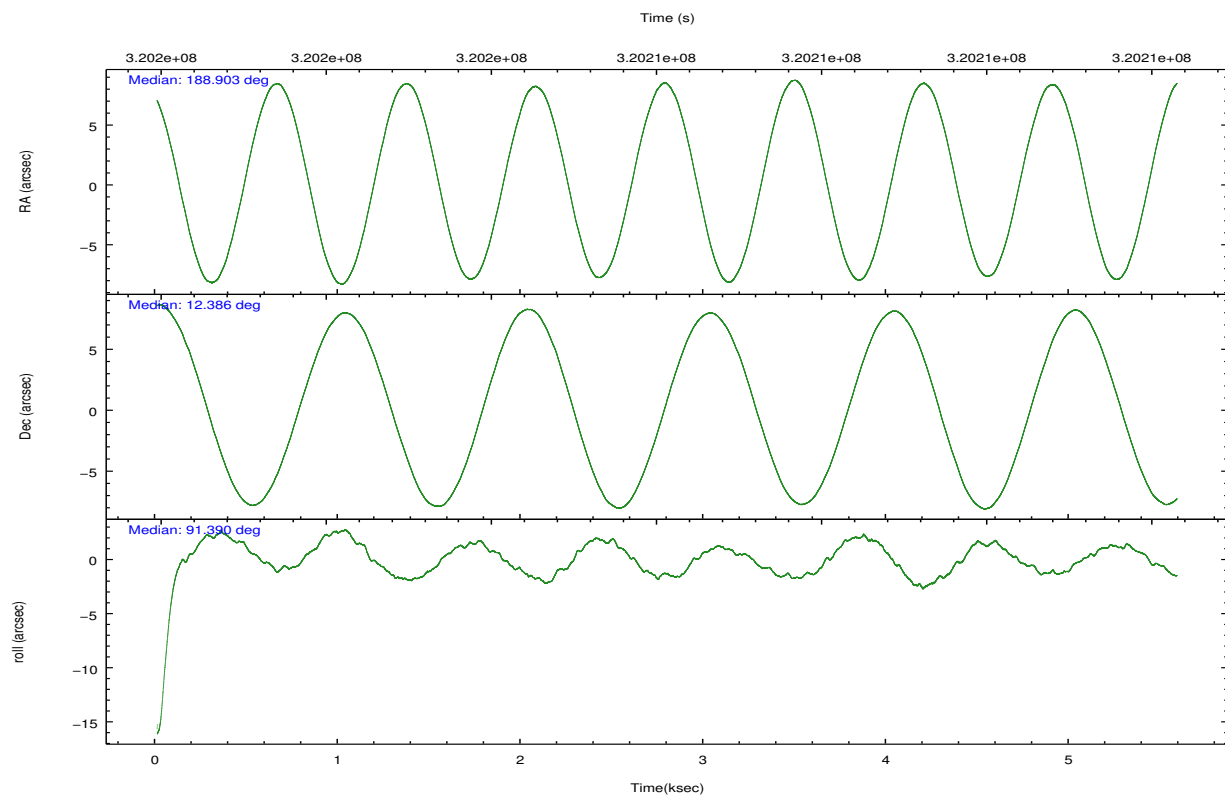
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51196	48326	86181	52161	70551	67664	grade 0 events	2661	2774	7719	3072	2594	5821
rejected events	45161	42223	43551	45231	41410	51498		5%	5%	8%	5%	3%	8%
rejected %	88%	87%	50%	86%	58%	76%	grade 1 events	51	37	93	24	80	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	1311	1156	11778	1474	6019	3437
								2%	2%	13%	2%	8%	5%
							grade 3 events	541	575	1425	578	2386	1558
								1%	1%	1%	1%	3%	2%
							grade 4 events	532	555	1270	582	2485	1402
								1%	1%	1%	1%	3%	2%
							grade 5 events	1990	2277	5304	2415	6451	3081
								3%	4%	6%	4%	9%	4%
							grade 6 events	991	1048	20456	1227	15671	3973
								1%	2%	23%	2%	22%	5%
							grade 7 events	43119	39904	38136	42789	34865	48307
								84%	82%	44%	82%	49%	71%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	188.917612	188.9026484177393	CCD I2 on	O1	Y
[deg] Pointing Dec	12.362840	12.38596659228699	CCD I3 on	O2	Y
[deg] Pointing Roll	91.235649	91.39548718839917	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	O4	Y
[s] Observation start time (MET)	320203460.184000	320203000.66686	CCD S5 on	N	N
Observation start date	2008-02-24T01:23:15	2008-02-24T01:16:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320208860.184000	320209097.36715	On-chip summing requested	N	N
Observation end date	2008-02-24T02:53:15	2008-02-24T02:58:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



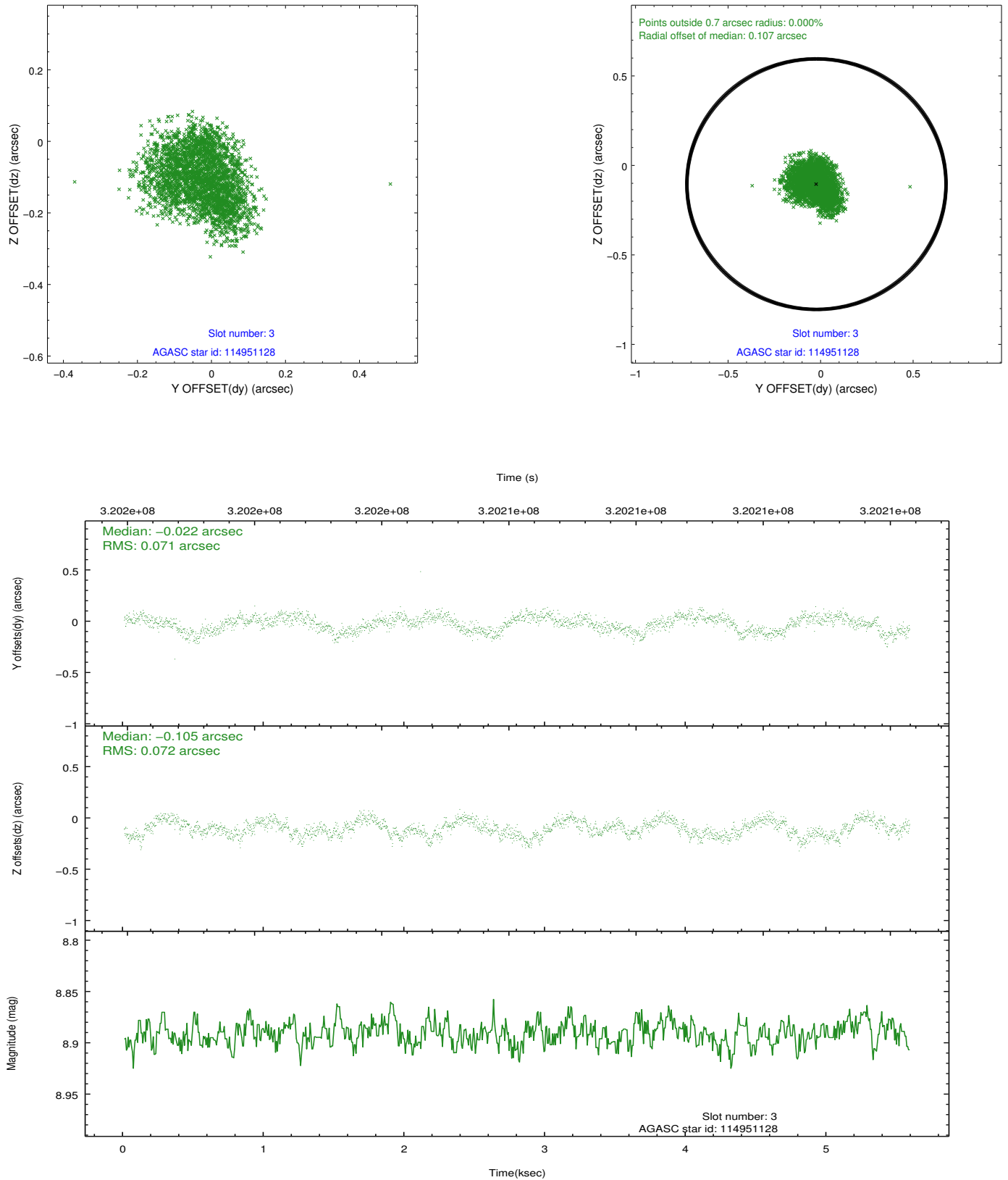


Slot Statistics

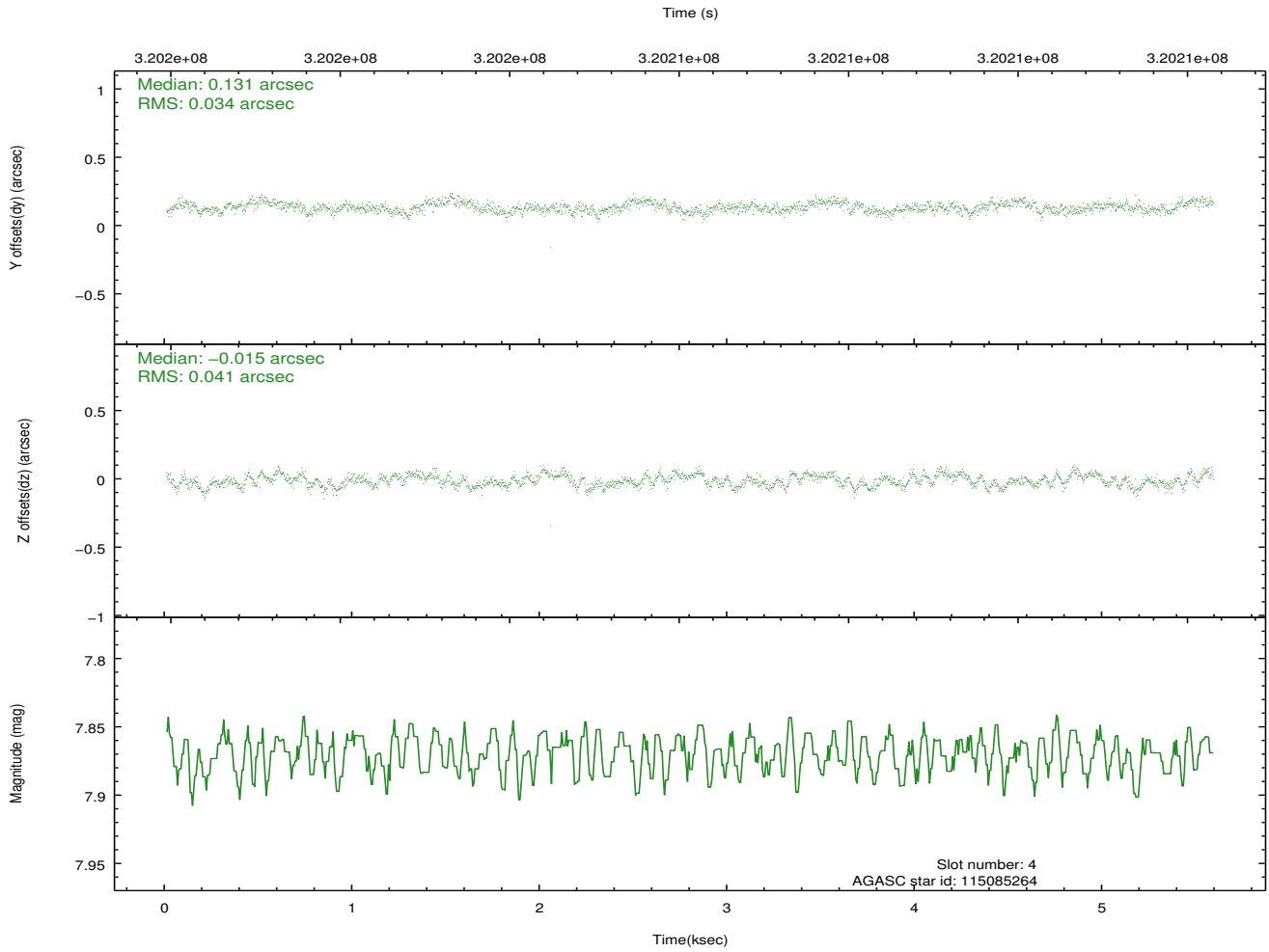
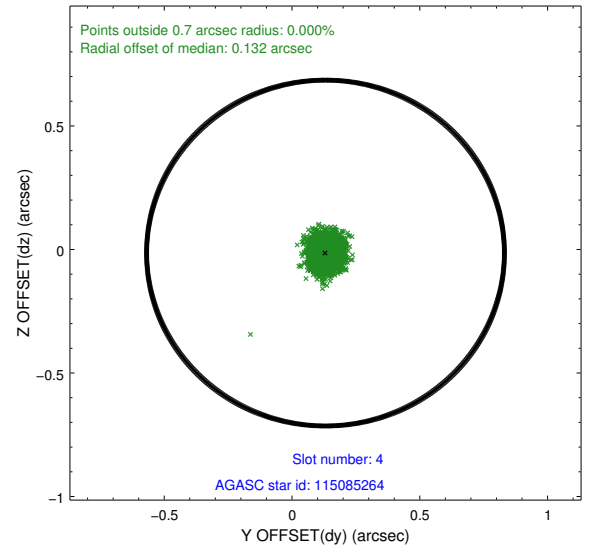
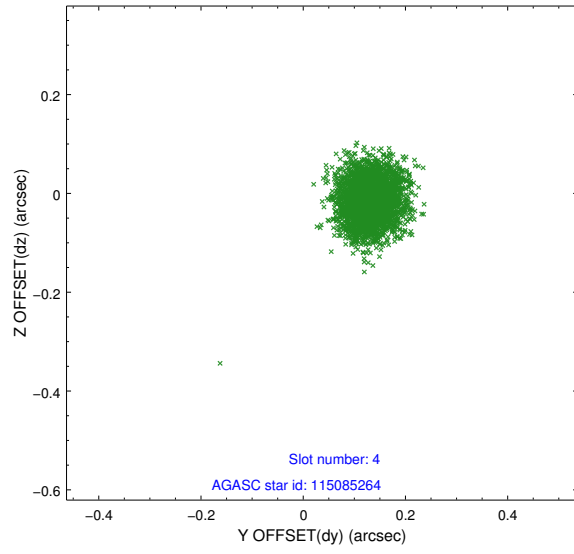
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.024	-0.051	0.007	0.011	0.000000	0.000000	-765.13	-1734.54
1	FID	ACIS-S-4	7.20	1362	0.115	0.025	0.005	0.011	0.000000	0.000000	2147.81	172.89
2	FID	ACIS-S-5	7.23	1362	-0.123	0.035	0.006	0.011	0.000000	0.000000	-1816.68	167.81
3	GUIDE	114951128	8.89	2721	-0.022	-0.105	0.110	0.165	188.719863	12.459246	361.93	687.19
4	GUIDE	115085264	7.87	2723	0.131	-0.015	0.056	0.088	189.302301	11.817775	-1989.28	-1313.01
5	GUIDE	115349088	9.31	2722	0.024	-0.189	0.091	0.144	188.777694	12.938966	2084.00	446.02
6	GUIDE	115481912	8.59	2722	-0.047	0.227	0.073	0.118	189.408526	12.669552	1069.64	-1747.30
7	GUIDE	115482272	8.17	2722	-0.078	0.083	0.077	0.121	189.342268	12.983616	2204.29	-1537.89

2.4 Star Slots

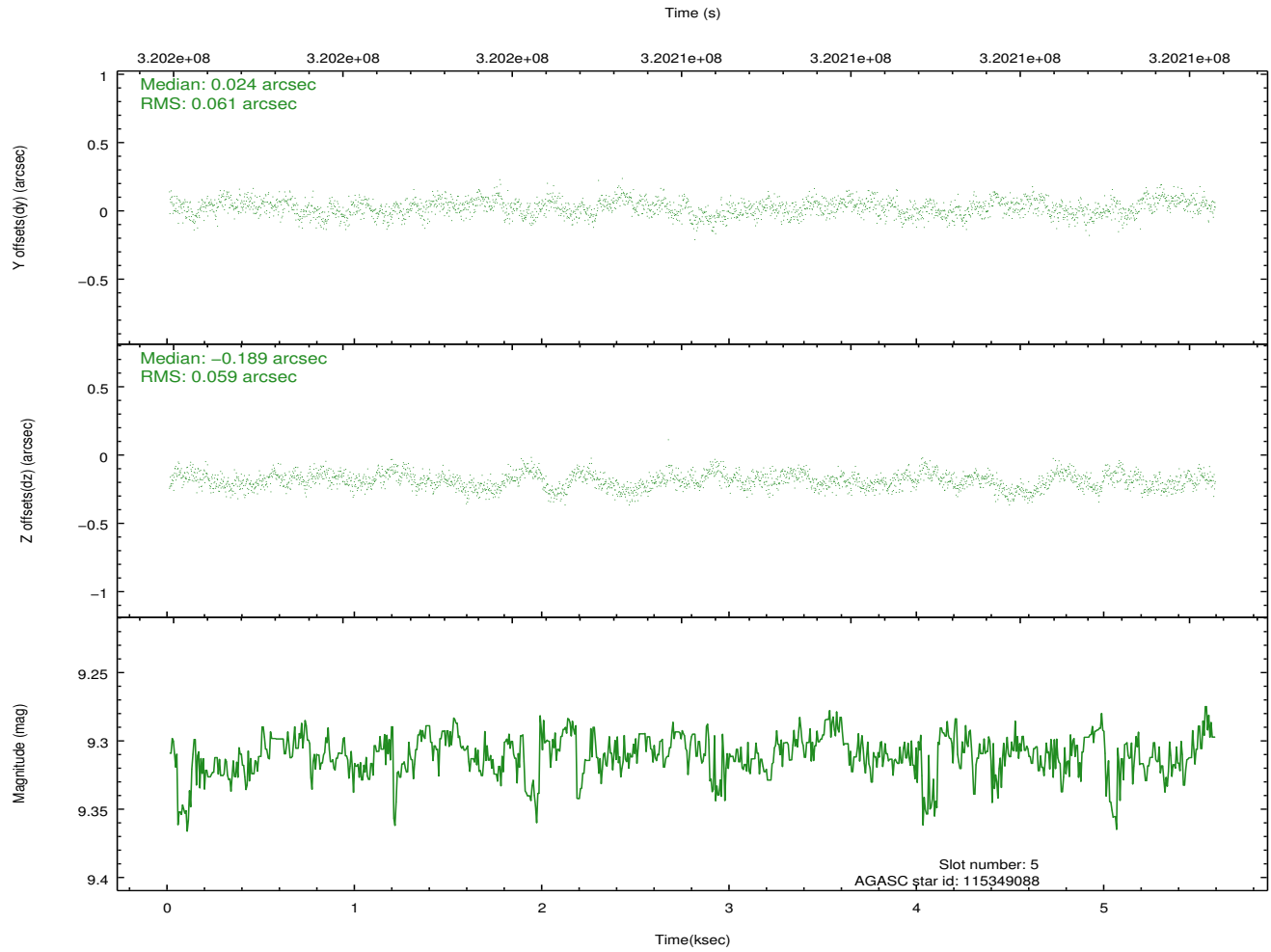
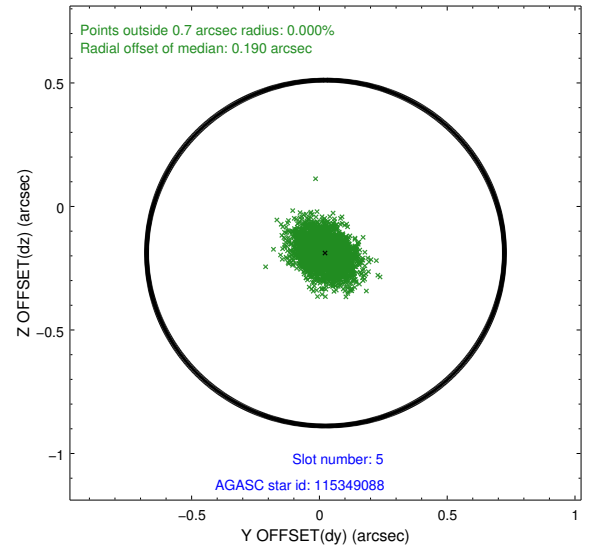
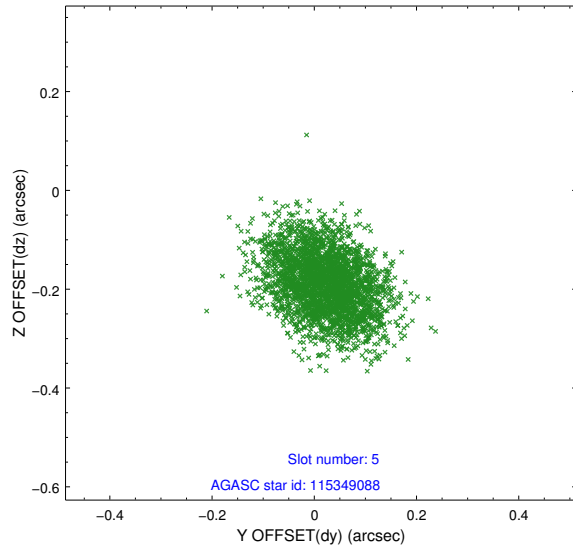
2.4.1 Slot 3



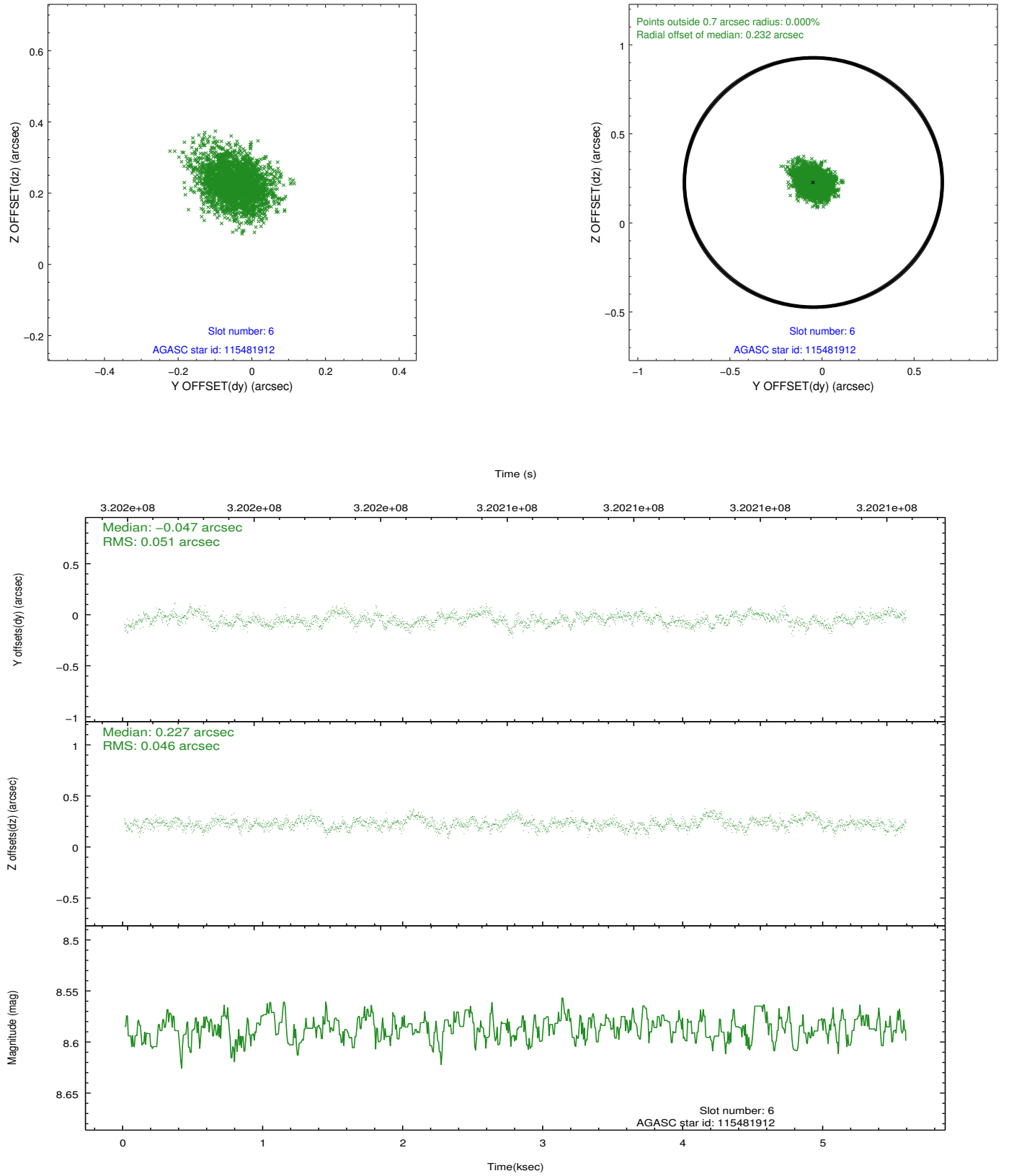
2.4.2 Slot 4



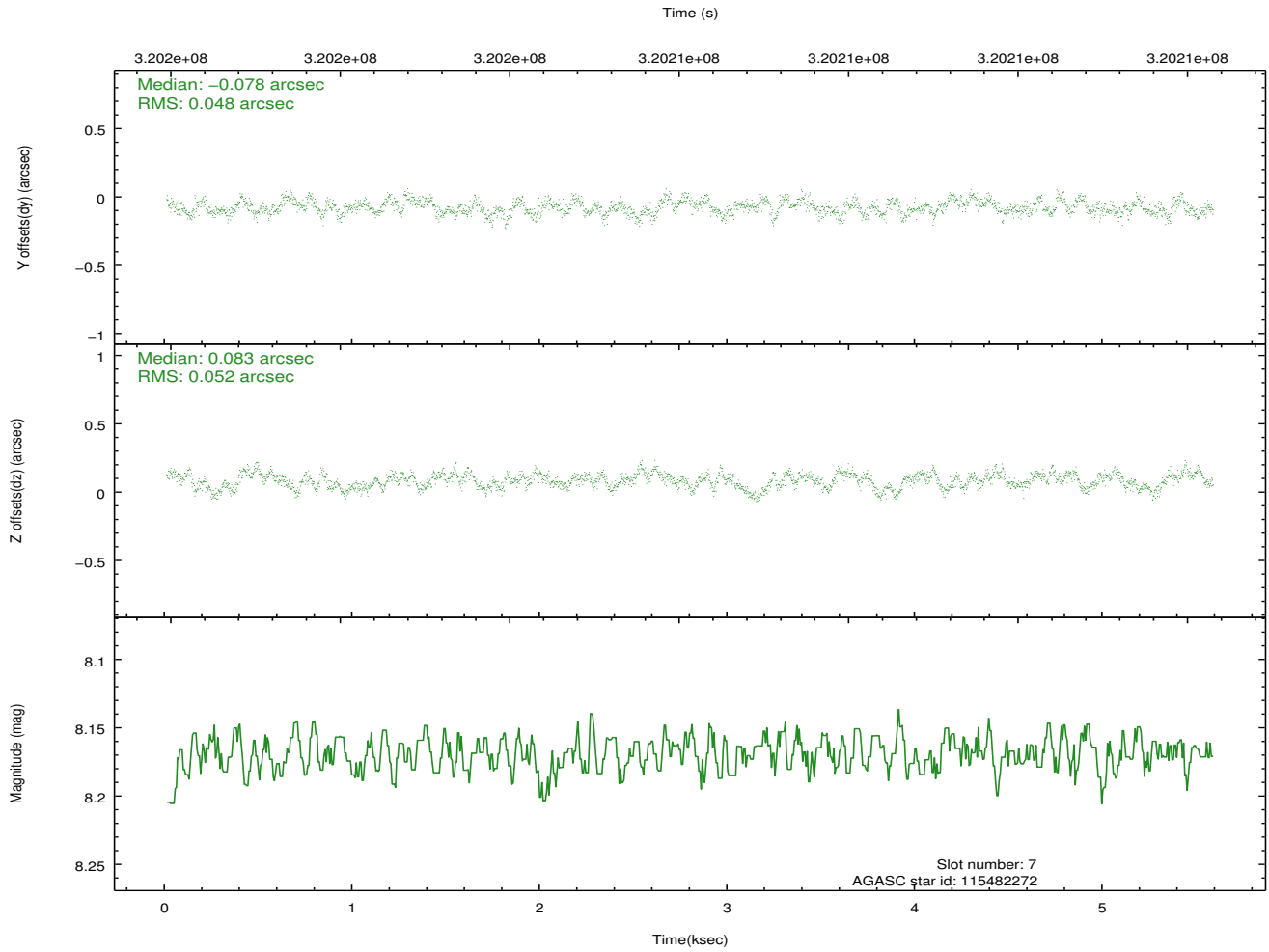
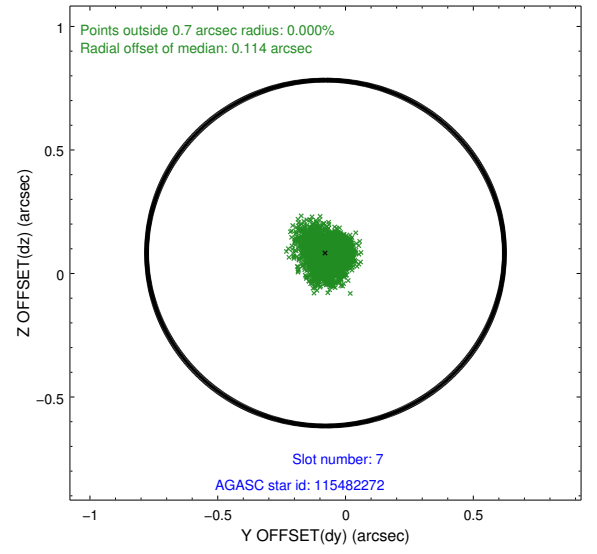
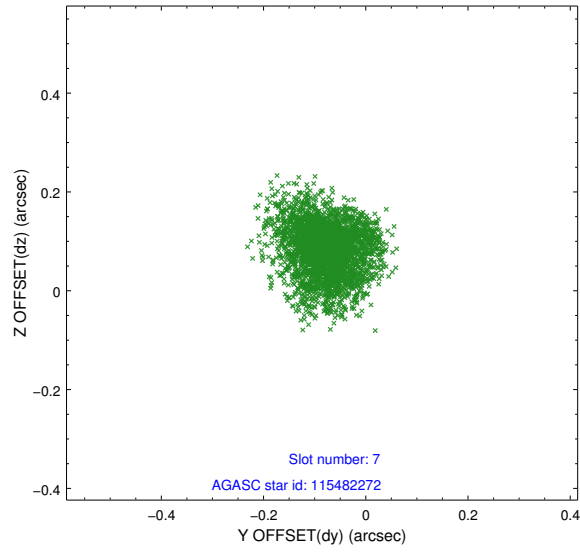
2.4.3 Slot 5



2.4.4 Slot 6

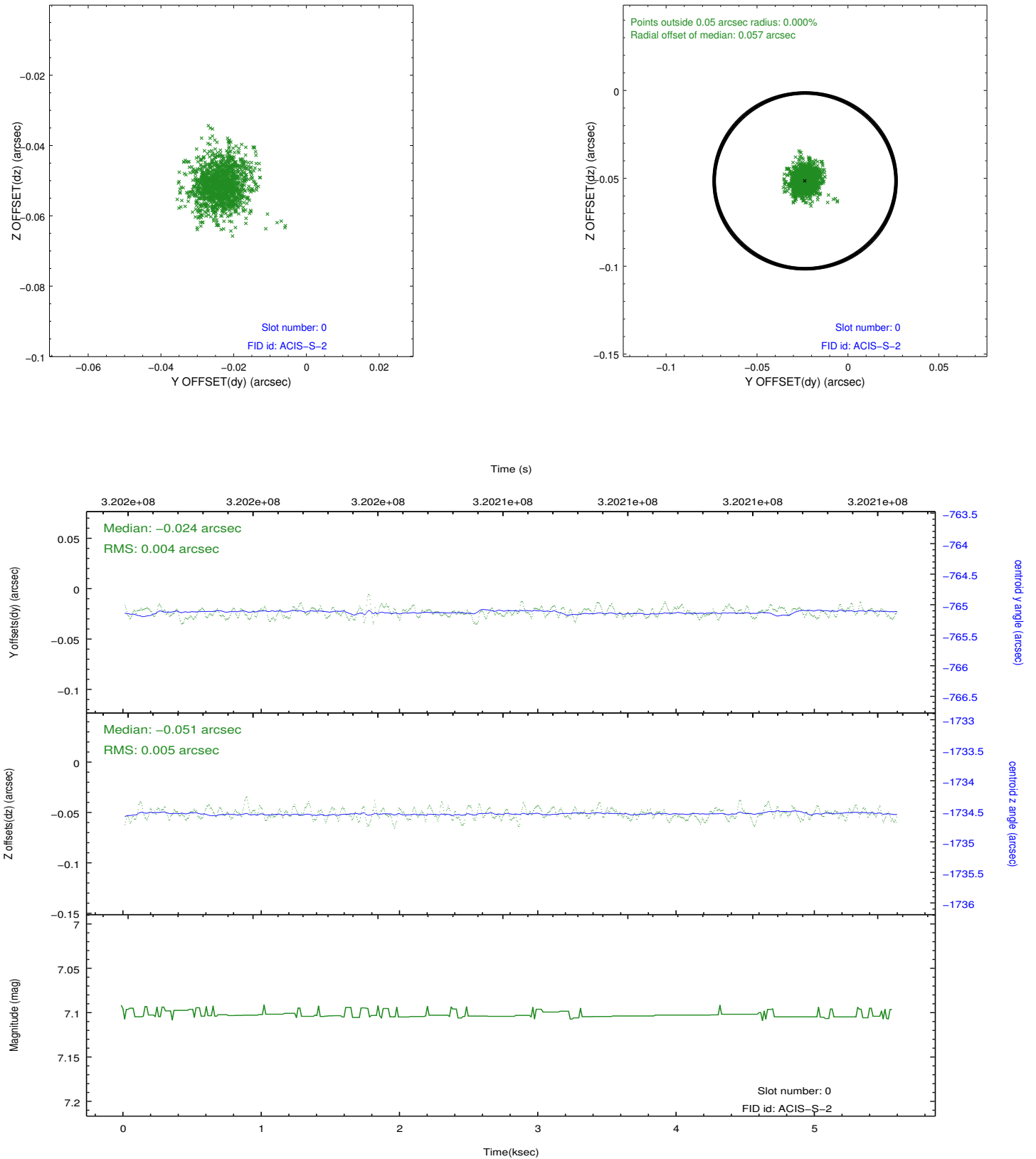


2.4.5 Slot 7

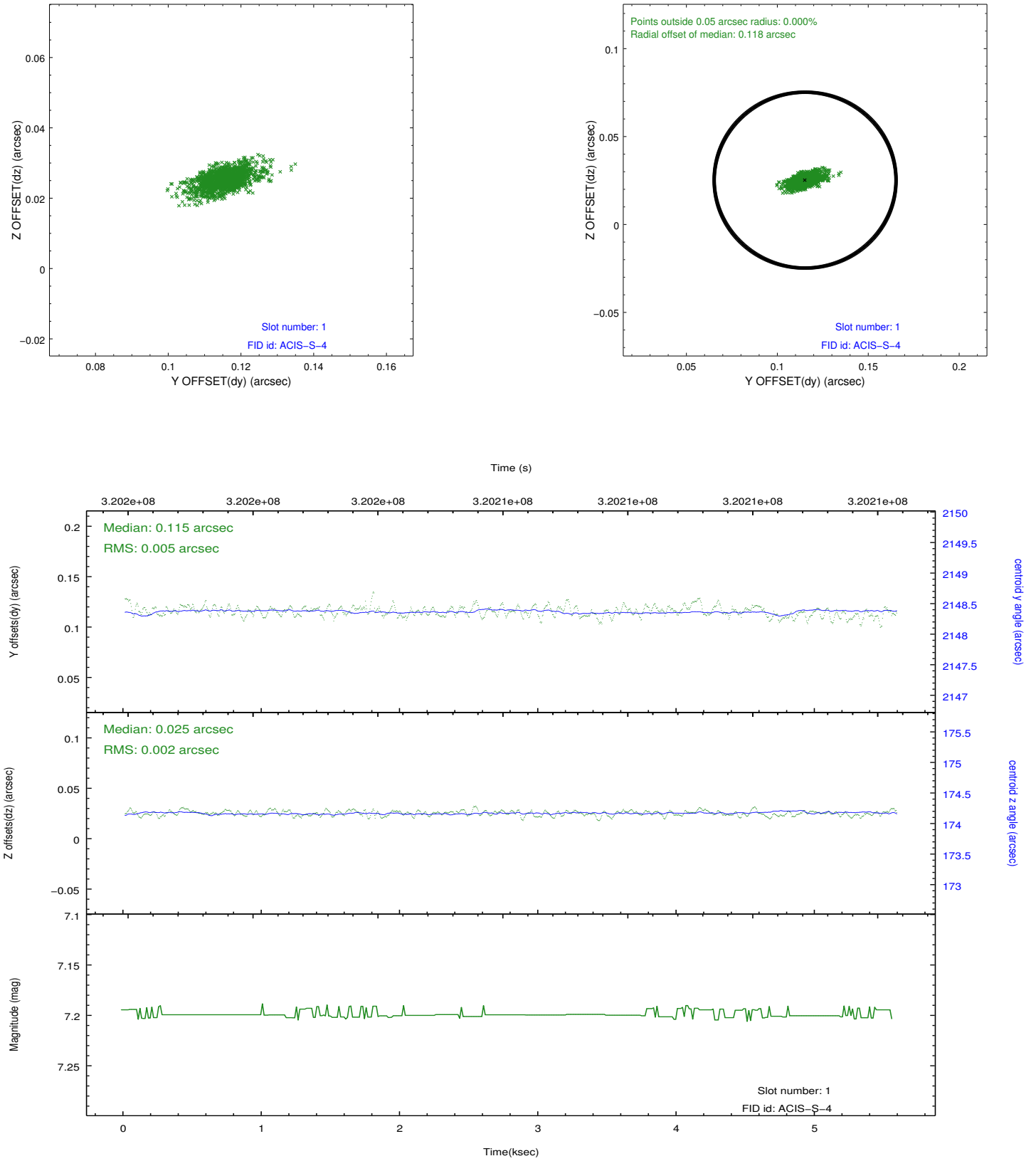


2.5 FID Slots

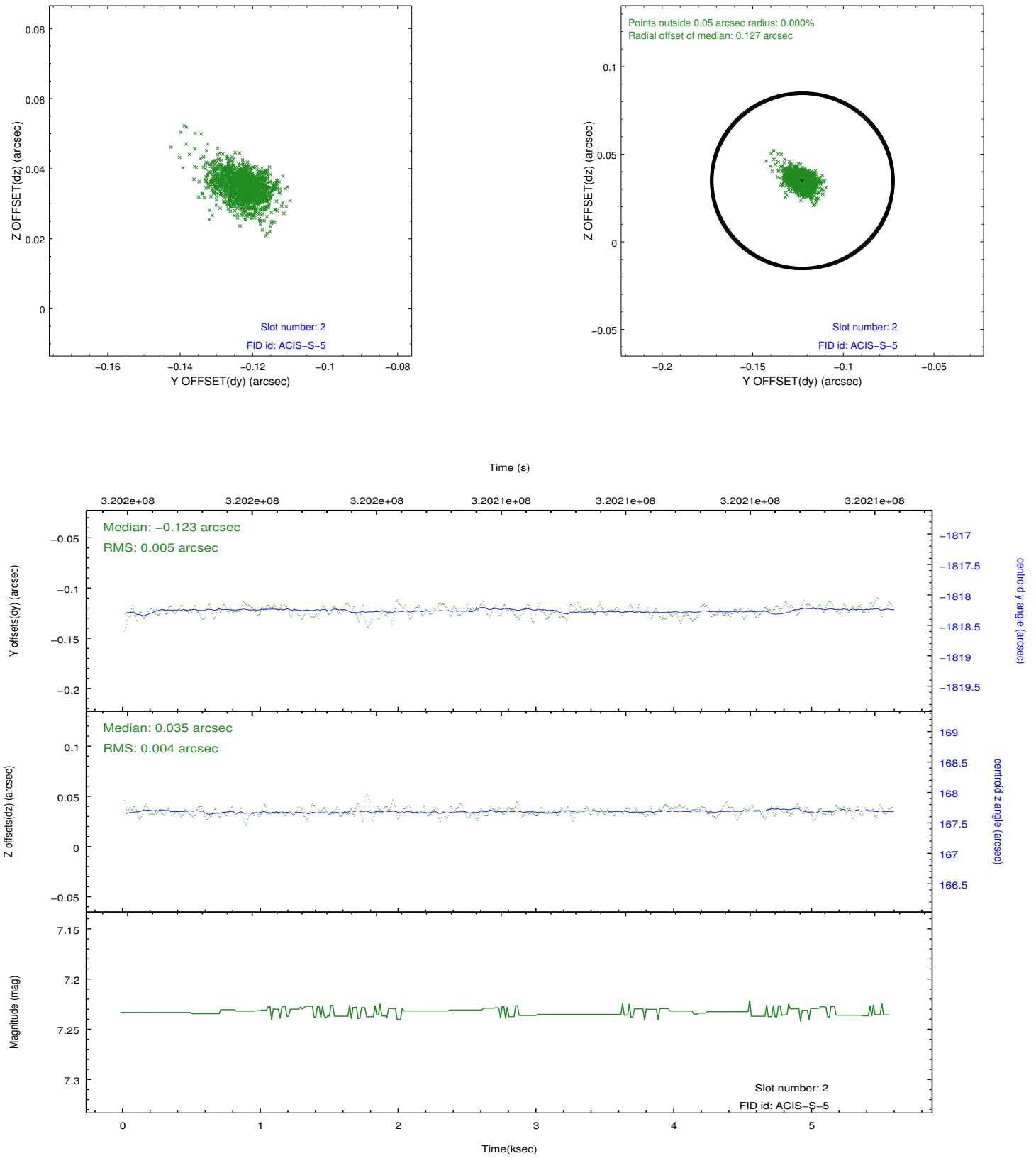
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer