

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19482 - L2 Version 2
Chandra X-Ray Center

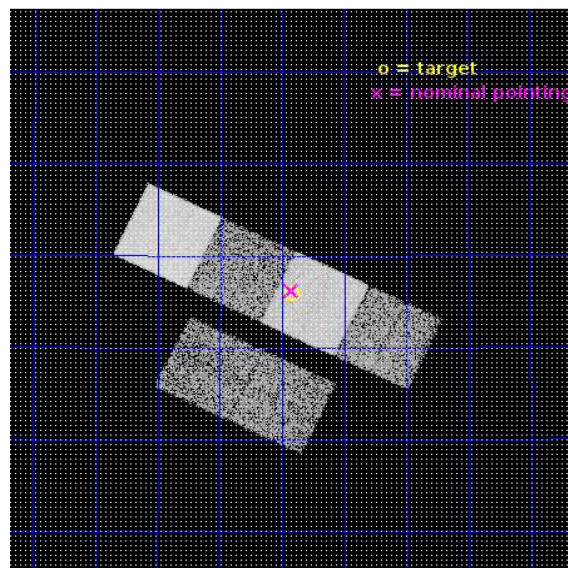
L2 Processing Date : Dec 16 2016

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

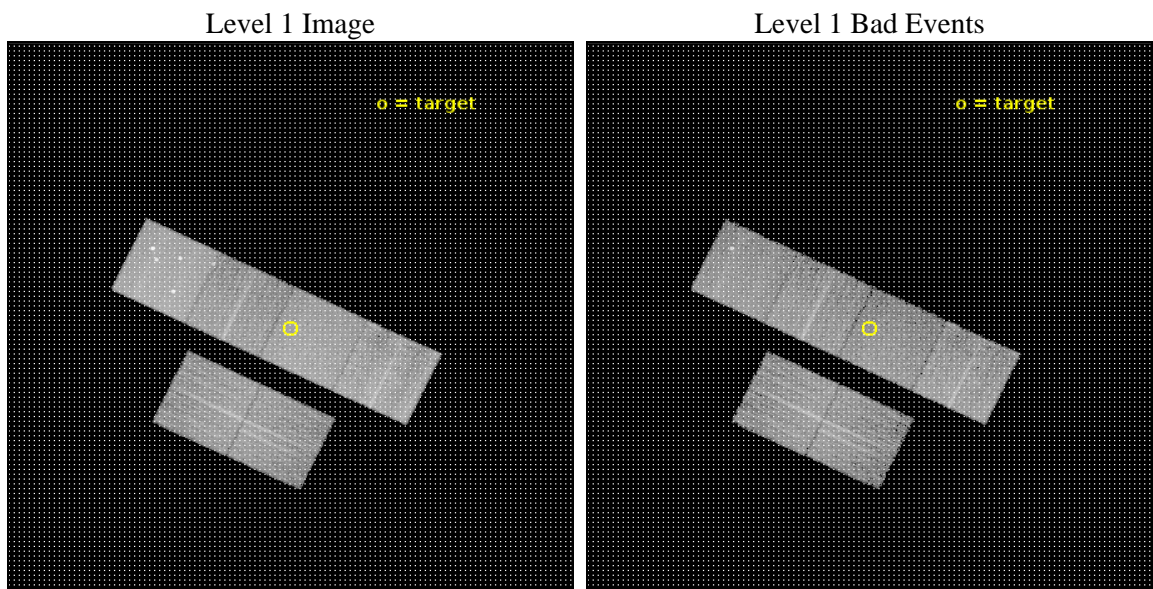
seq_num	703330	Sequence number
obs_id	19482	Observation id
title	UNDERSTANDING THE ROLE OF AGN IN TRANSITIONING GALAXI	Proposal tit
observer	Dr. Lauranne Lanz	Principal investigator
object	spog2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	238.853917	Observer's specified target RA [deg]
dec_targ	29.930806	Observer's specified target Dec [deg]
ra_nom	238.85623625975	Nominal RA [deg]
dec_nom	29.936783128079	Nominal Dec [deg]
roll_nom	25.563323246373	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9941.114638567	Sum of GTIs [s]
livetime	9815.2342591928	Livetime [s]
ontime2	9934.6735677719	Sum of GTIs [s]
ontime3	9940.9915184975	Sum of GTIs [s]
ontime5	9941.0735985041	Sum of GTIs [s]
ontime6	9941.0325585604	Sum of GTIs [s]
ontime7	9941.114638567	Sum of GTIs [s]
ontime8	9940.9504785538	Sum of GTIs [s]
l2events	113796	Number of level 2 events



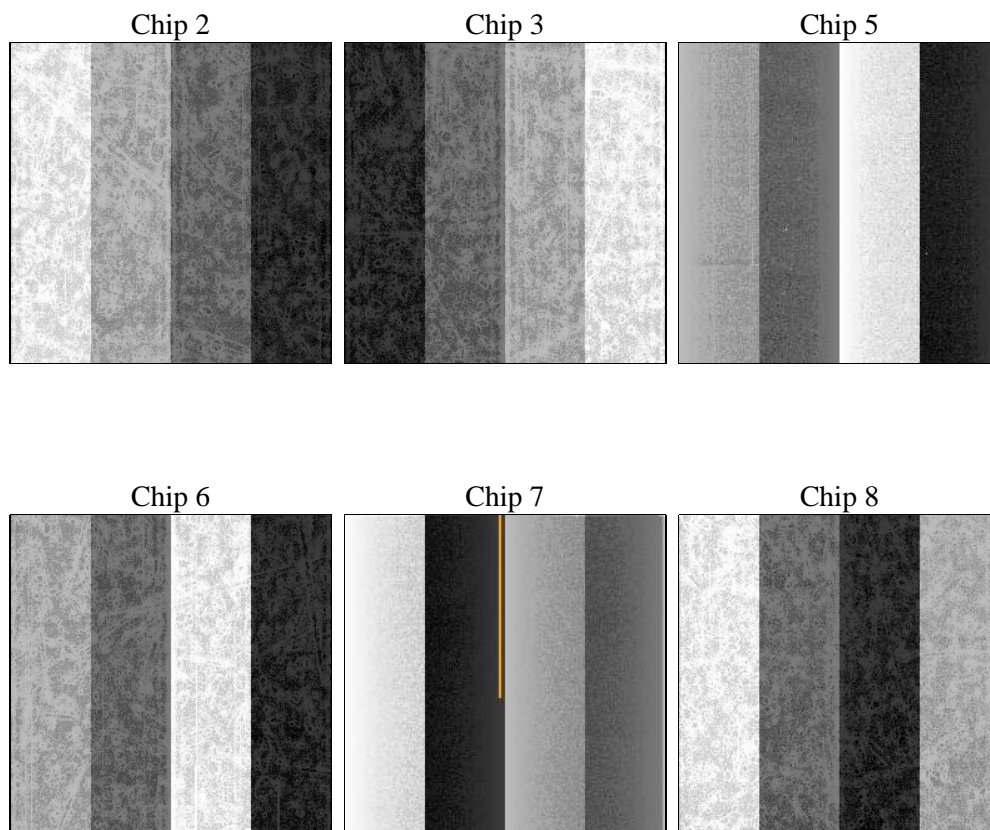
2 OBI

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	10.5.2	Processing system revision	ontime	9941.114638567	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	9934.6735677719	Sum of GTIs [s]
date	2016-12-16T15:54:16	Date and time of file creation	ontime3	9940.9915184975	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9941.0735985041	Sum of GTIs [s]
			ontime6	9941.0325585604	Sum of GTIs [s]
			ontime7	9941.114638567	Sum of GTIs [s]
			ontime8	9940.9504785538	Sum of GTIs [s]
			l1events	512915	Number of level 1 events

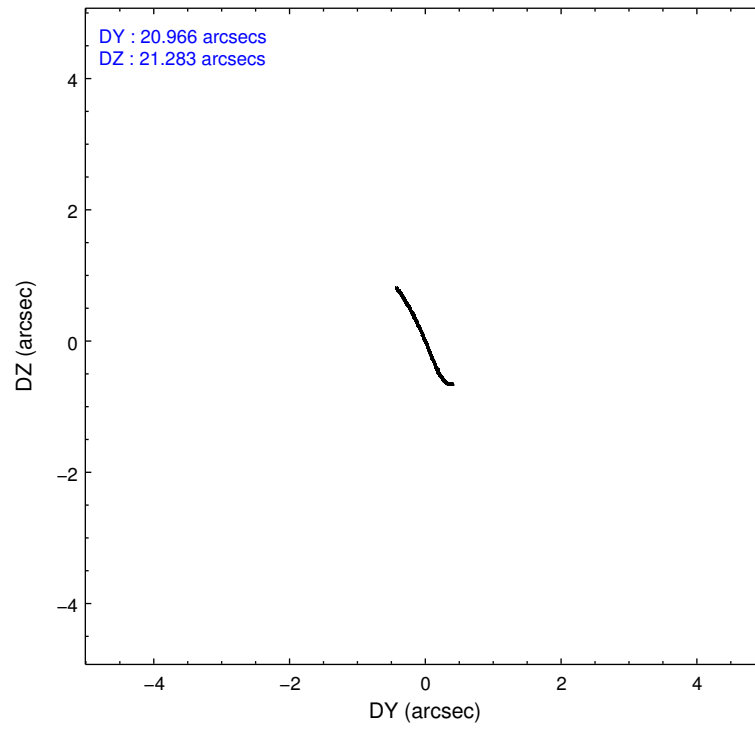
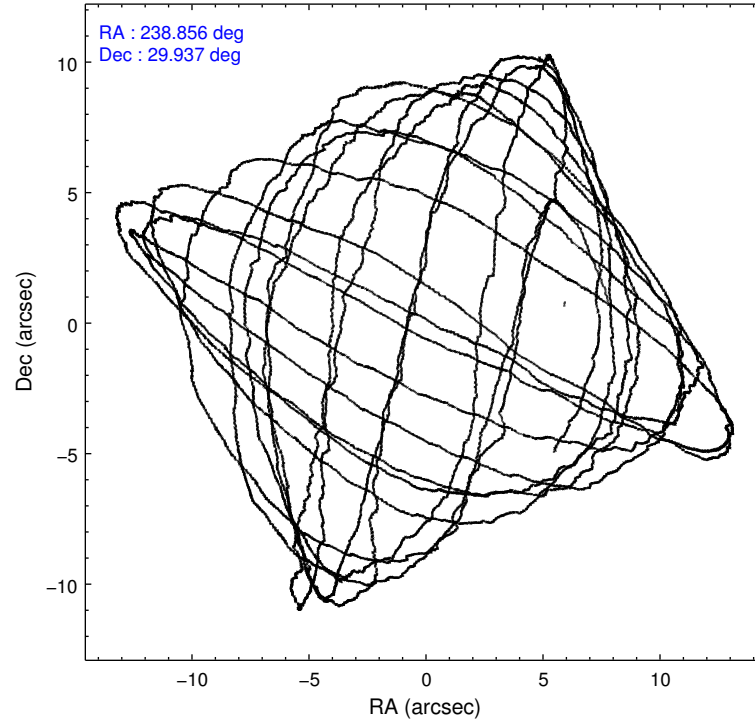
2.1.4 Events

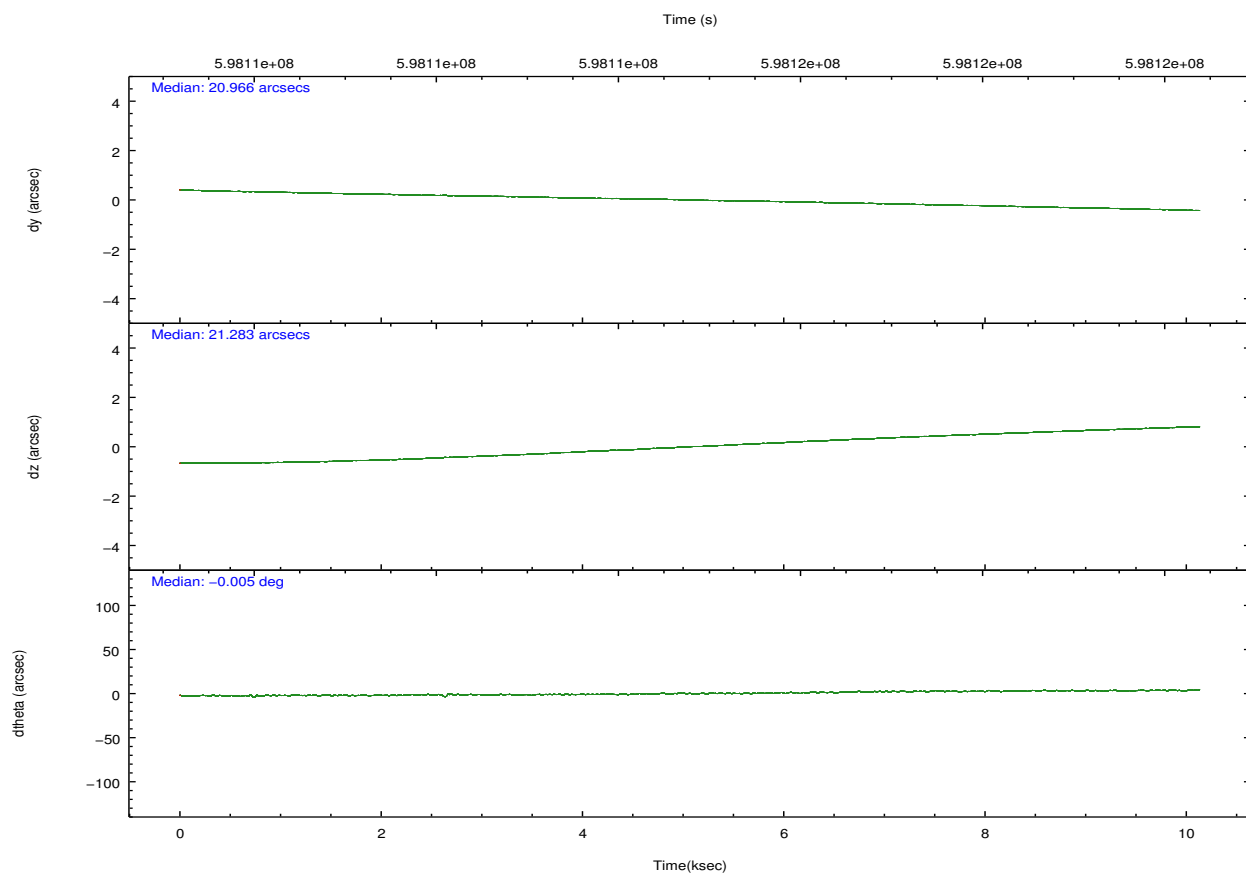
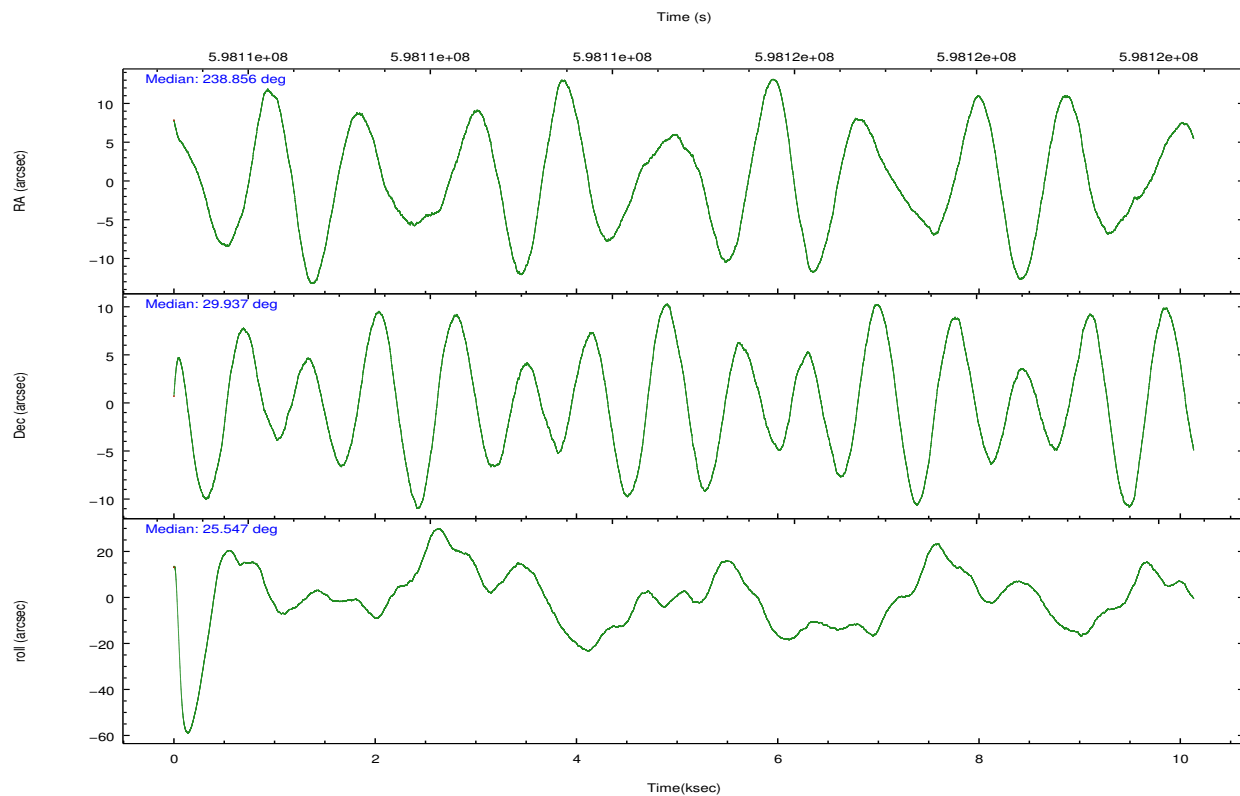
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	73458	66333	118446	70336	90113	94229	grade 0 events	2516	2438	10259	2383	3066	6226
rejected events	66200	59335	58564	62644	51629	70909		3%	3%	8%	3%	3%	6%
rejected %	90%	89%	49%	89%	57%	75%	grade 1 events	50	39	1373	29	95	68
								0%	0%	1%	0%	0%	0%
							grade 2 events	1735	1480	16878	1879	8246	5868
								2%	2%	14%	2%	9%	6%
							grade 3 events	805	725	1656	716	2835	2388
								1%	1%	1%	1%	3%	2%
							grade 4 events	753	769	1580	794	2871	2257
								1%	1%	1%	1%	3%	2%
							grade 5 events	2896	3222	7227	3109	8558	4856
								3%	4%	6%	4%	9%	5%
							grade 6 events	1457	1593	29546	1926	21497	6608
								1%	2%	24%	2%	23%	7%
							grade 7 events	63246	56067	49927	59500	42945	65958
								86%	84%	42%	84%	47%	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	238.838651	238.8562362597459	CCD I2 on	O2	Y
[deg] Pointing Dec	29.913941	29.93678312807889	CCD I3 on	O1	Y
[deg] Pointing Roll	25.415369	25.56332324637339	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	598109855.184000	598108644.96372	CCD S5 on	N	N
Observation start date	2016-12-14T13:36:27	2016-12-14T13:17:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	598119855.184000	598120535.4769	On-chip summing requested	N	N
Observation end date	2016-12-14T16:23:07	2016-12-14T16:35:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



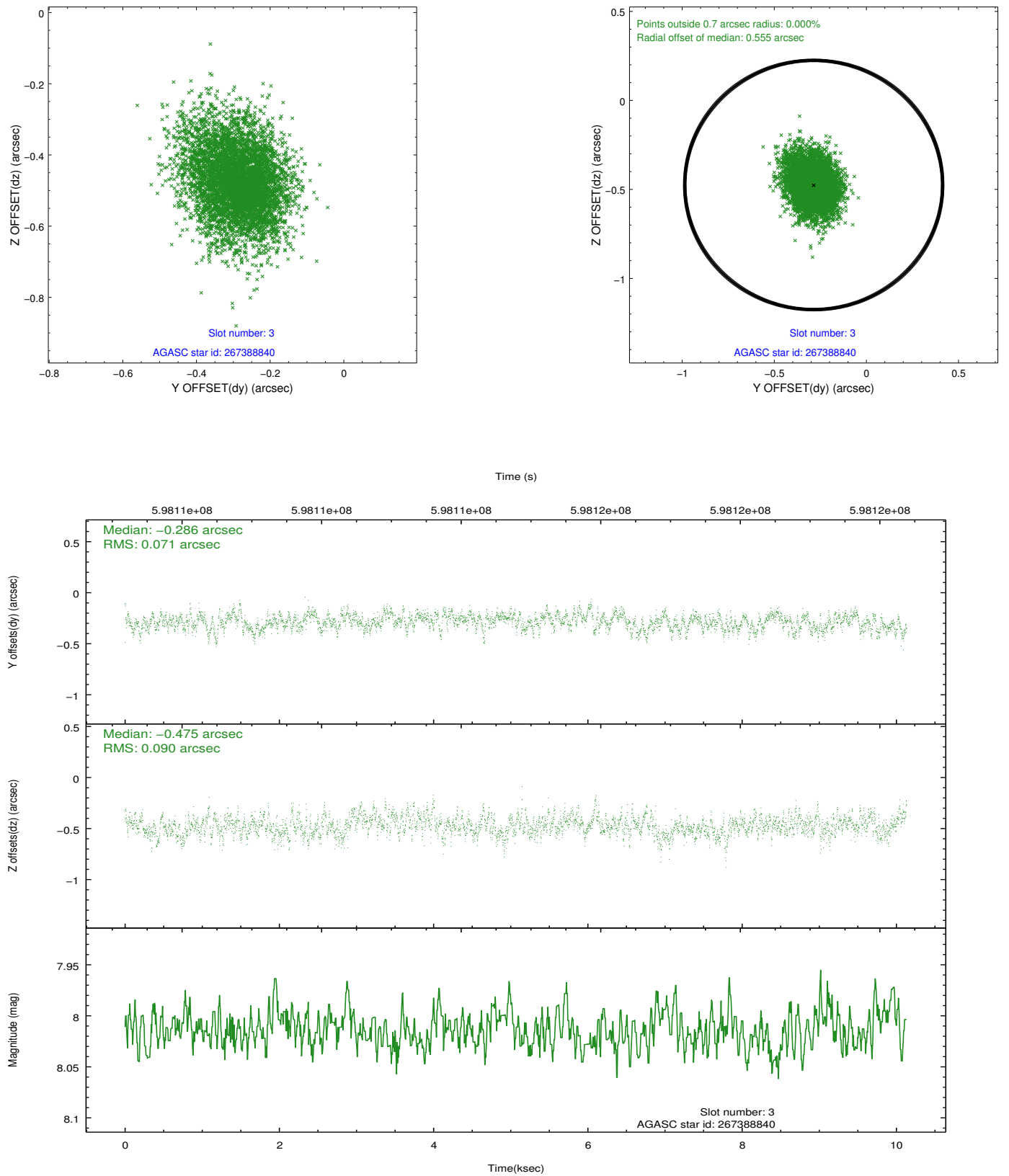


Slot Statistics

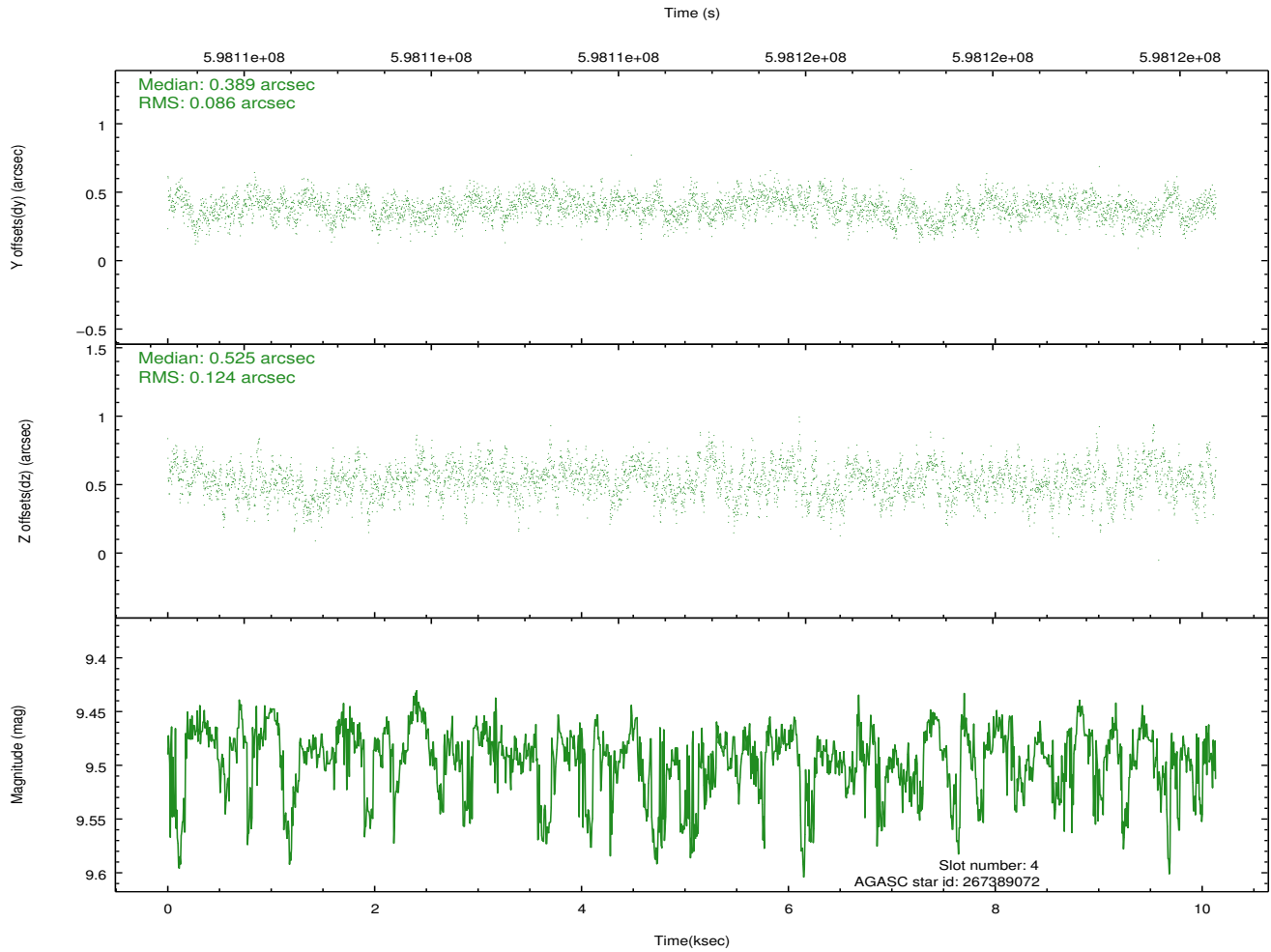
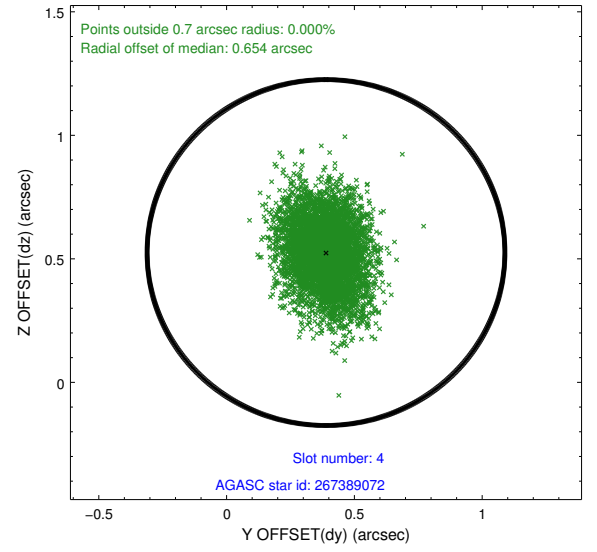
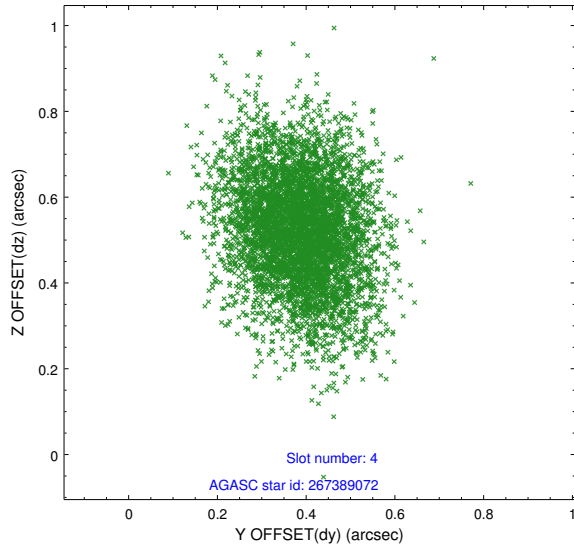
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	2472	-0.243	-0.142	0.018	0.030	0.000000	0.000000	-774.31	-1742.94
1	FID		ACIS-S-4	7.23	2472	0.492	0.156	0.006	0.011	0.000000	0.000000	2139.44	165.33
2	FID		ACIS-S-5	7.22	2472	-0.280	-0.006	0.016	0.026	0.000000	0.000000	-1826.55	159.39
3	GUIDE	used	267388840	8.01	4940	-0.286	-0.475	0.121	0.201	238.374056	29.468751	-2001.92	-821.06
4	GUIDE	used	267389072	9.49	4937	0.389	0.525	0.159	0.267	238.547911	29.420304	-1586.90	-1211.48
5	GUIDE	used	267396560	9.39	4937	0.005	-0.093	0.187	0.310	239.706221	29.787857	2257.79	-1563.58
6	GUIDE	used	267397008	9.08	4935	-0.105	0.047	0.163	0.271	239.587991	29.575314	1600.28	-2100.91
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

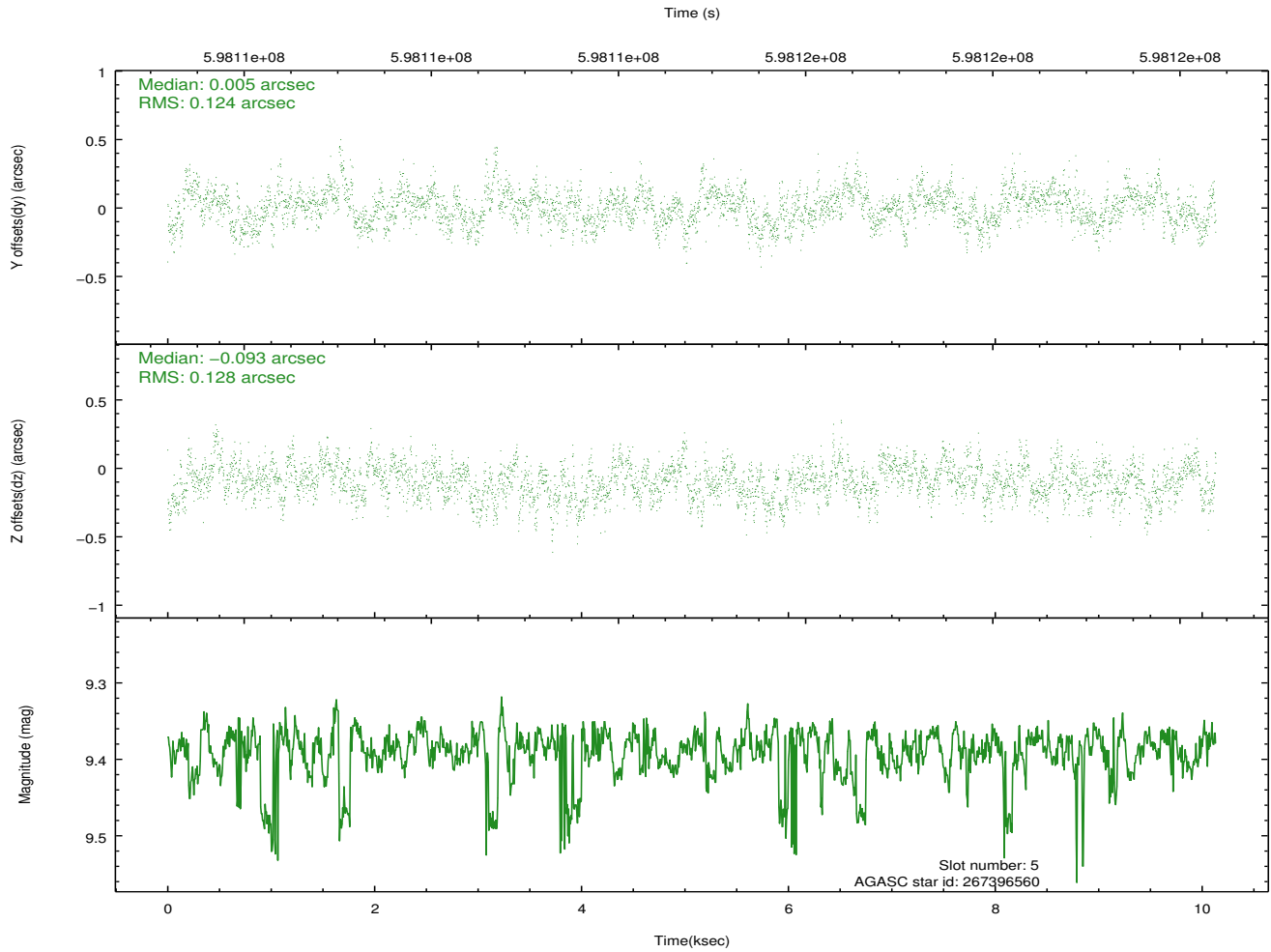
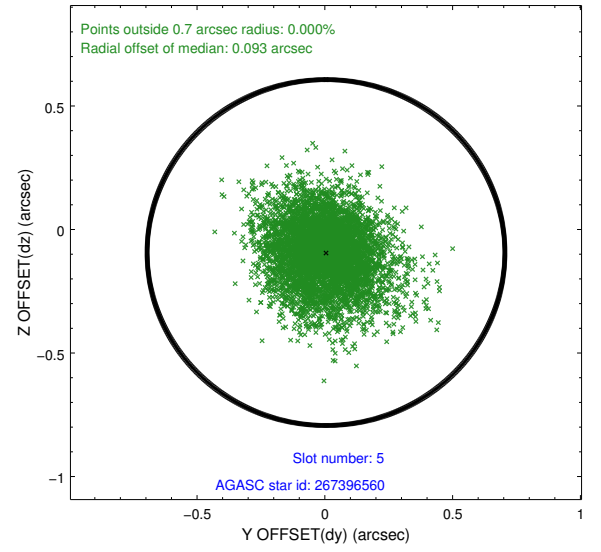
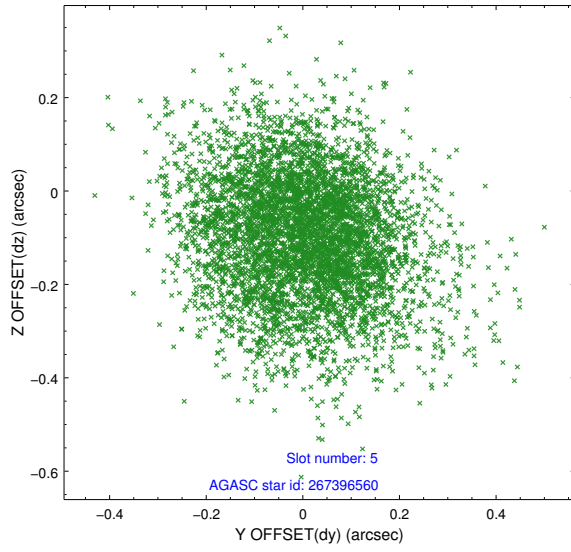
2.4.1 Slot 3



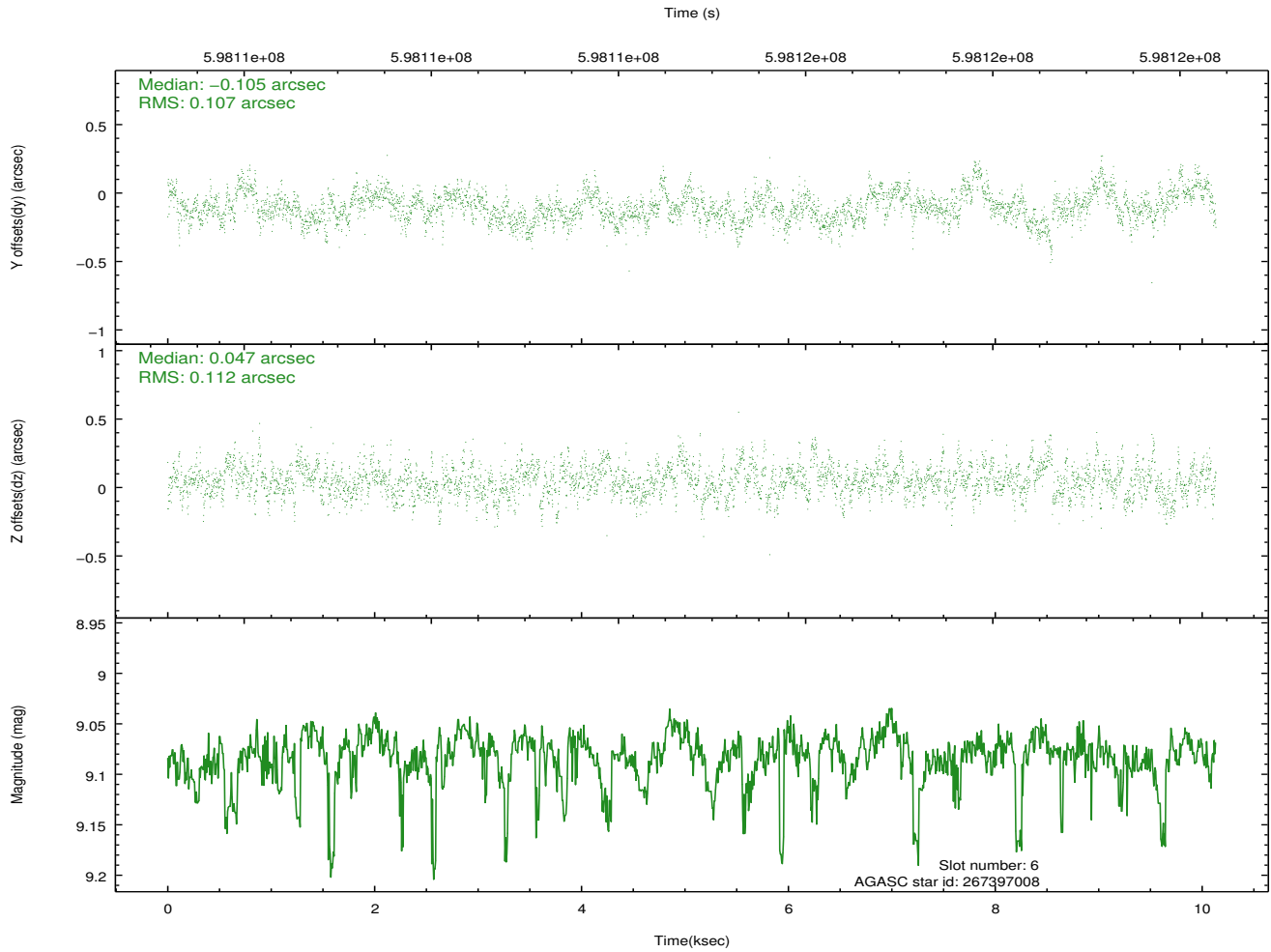
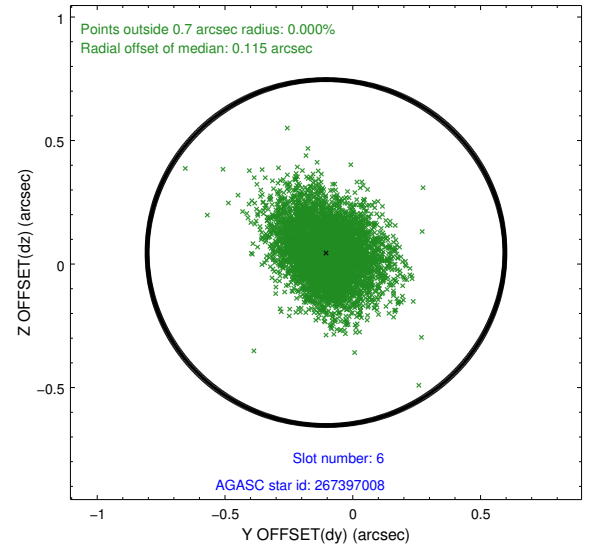
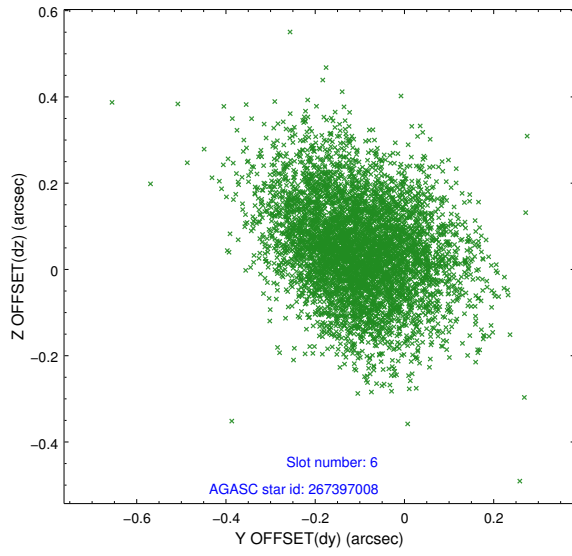
2.4.2 Slot 4



2.4.3 Slot 5

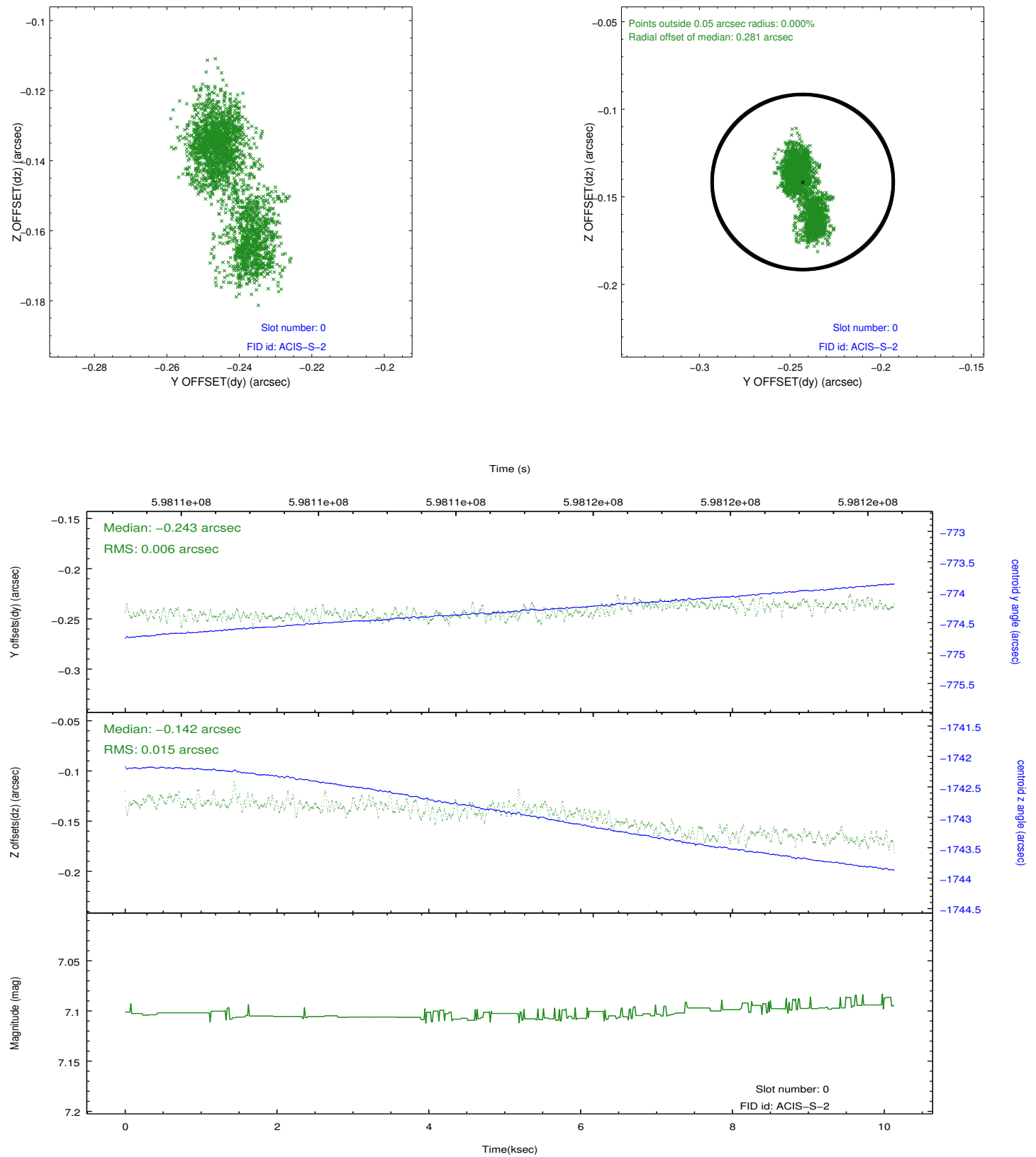


2.4.4 Slot 6

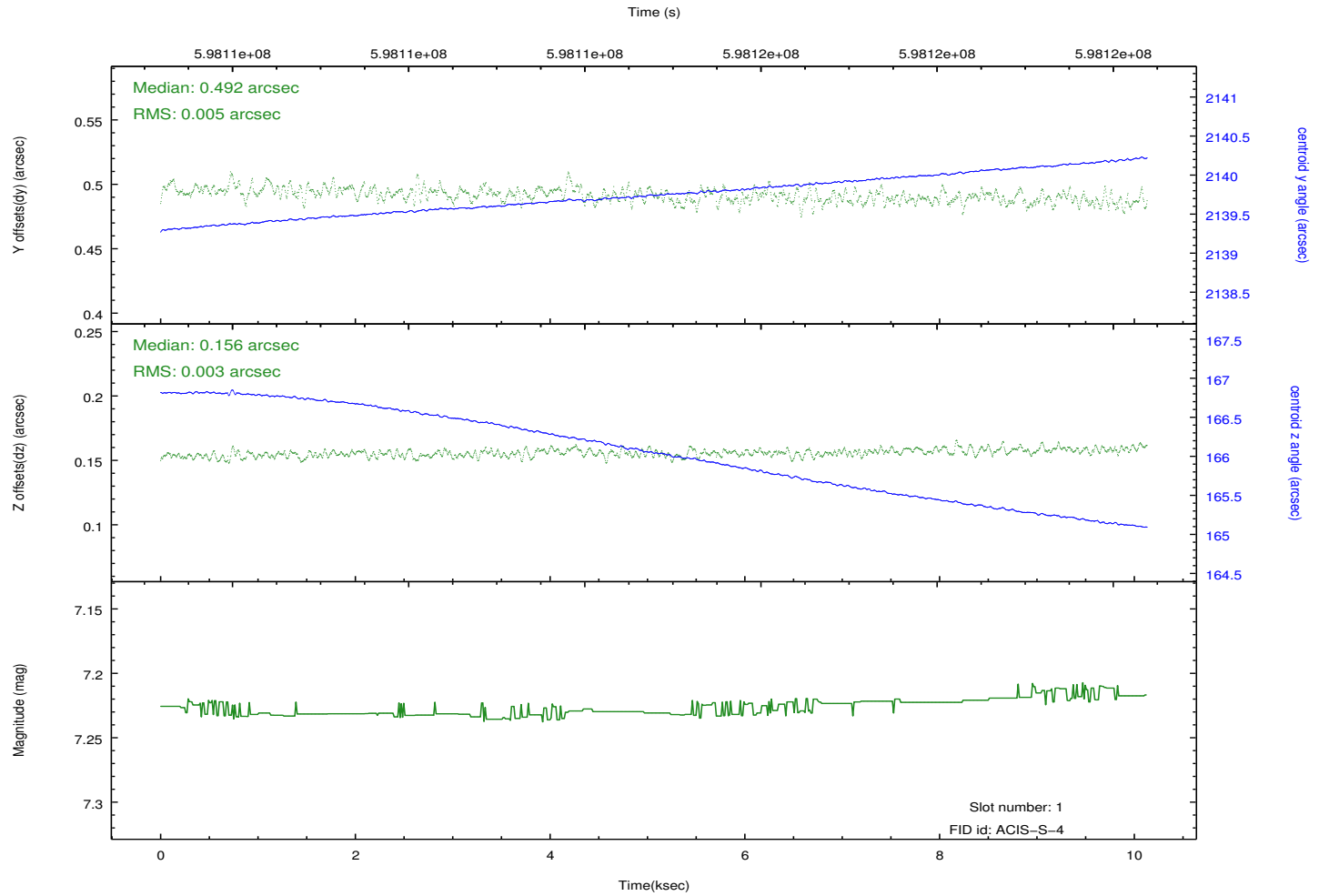
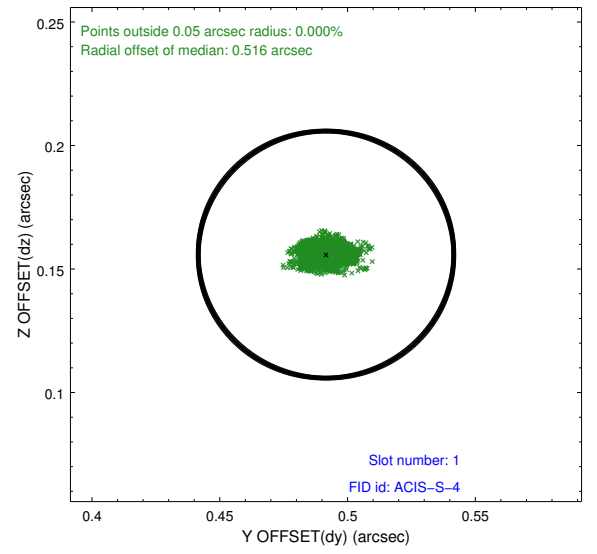
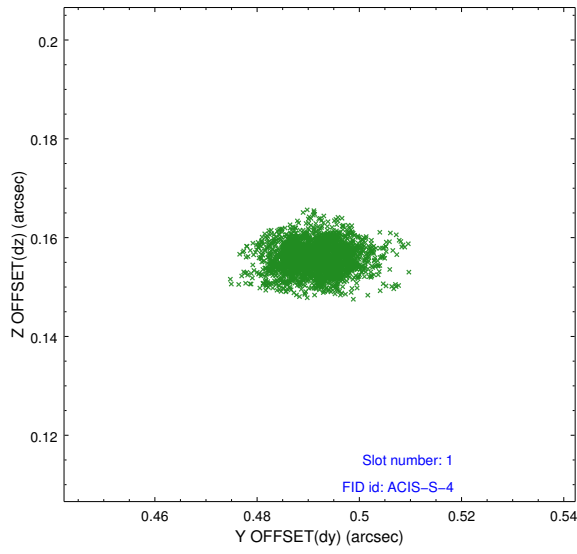


2.5 FID Slots

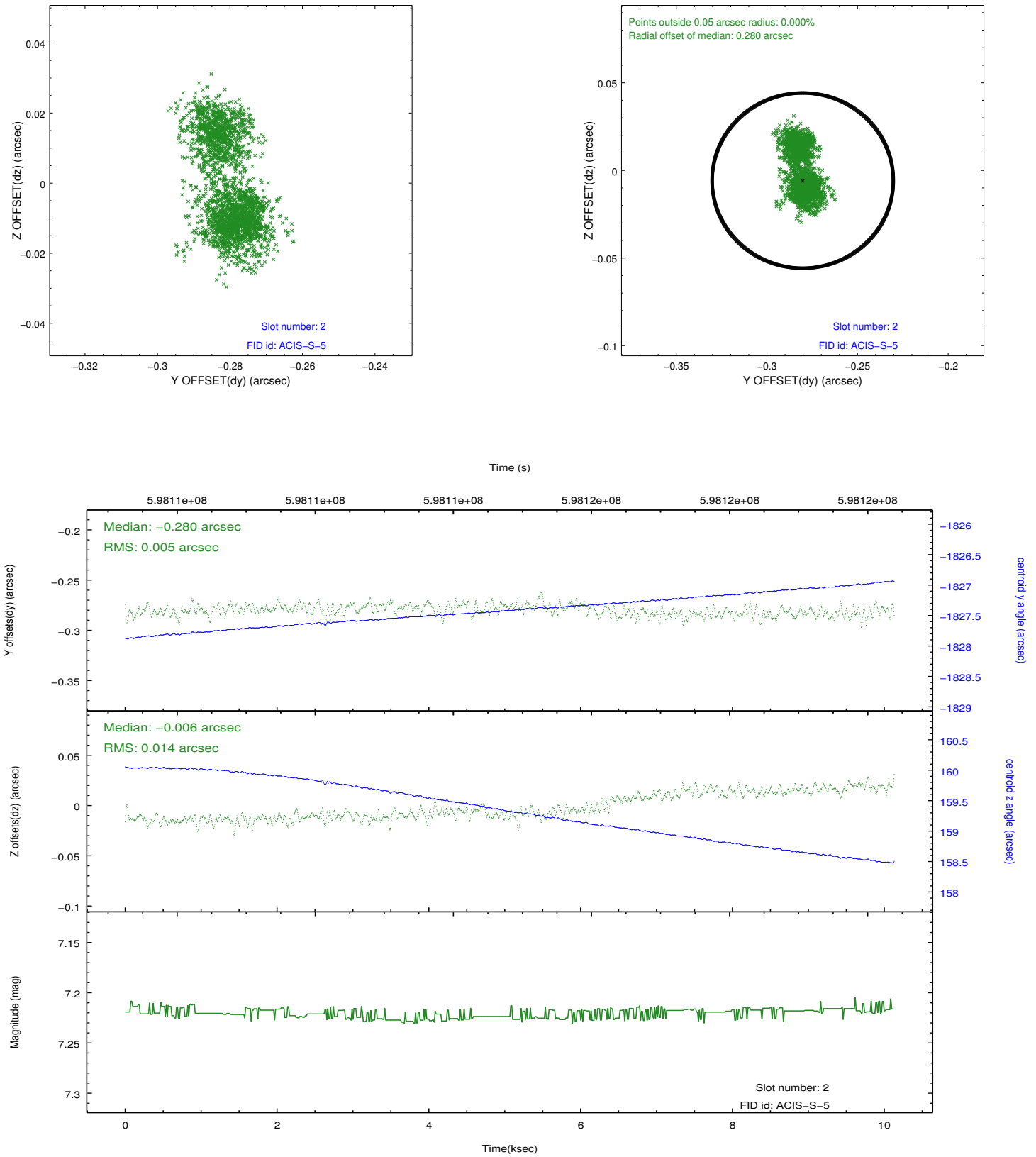
2.5.1 Slot 0



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)	2016.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.941114638567

A.2 Comments

The guide star in slot 7 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.