

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8559 - L2 Version 2
Chandra X-Ray Center

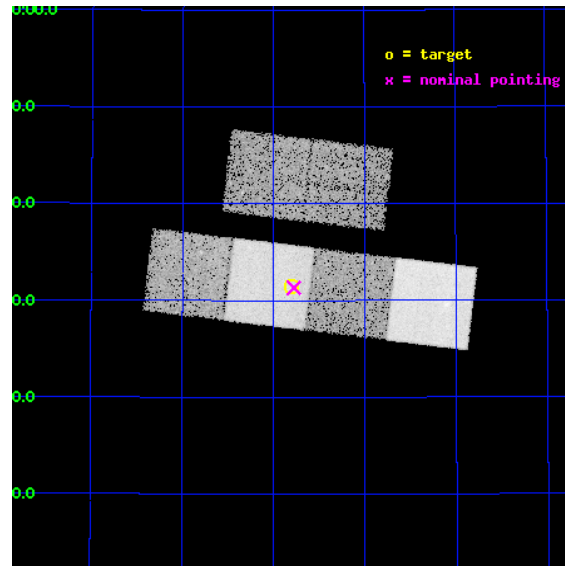
L2 Processing Date : Apr 28 2012

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

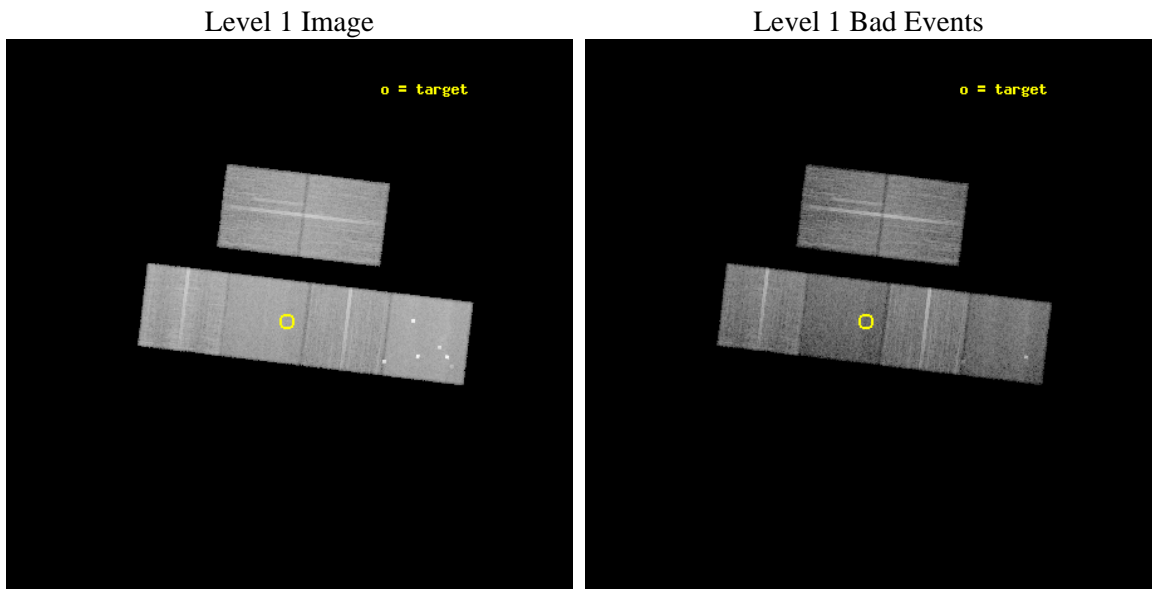
seq_num	200449	Sequence number
obs_id	8559	Observation id
title	Hot Gas and Thermal Conduction in Planetary Nebulae	Proposal title
observer	Dr. Robert Gruendl	Principal investigator
object	NGC 6826	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	296.2	Observer's specified target RA [deg]
dec_targ	50.525	Observer's specified target Dec [deg]
ra_nom	296.1940924907	Nominal RA [deg]
dec_nom	50.521973505319	Nominal Dec [deg]
roll_nom	186.81979912698	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15043.01681459	Sum of GTIs [s]
livetime	14852.533077866	Livetime [s]
ontime2	15043.057854593	Sum of GTIs [s]
ontime3	15042.89369458	Sum of GTIs [s]
ontime5	15042.975774586	Sum of GTIs [s]
ontime6	15042.934734583	Sum of GTIs [s]
ontime7	15043.01681459	Sum of GTIs [s]
ontime8	15039.611674249	Sum of GTIs [s]
l2events	177115	Number of level 2 events



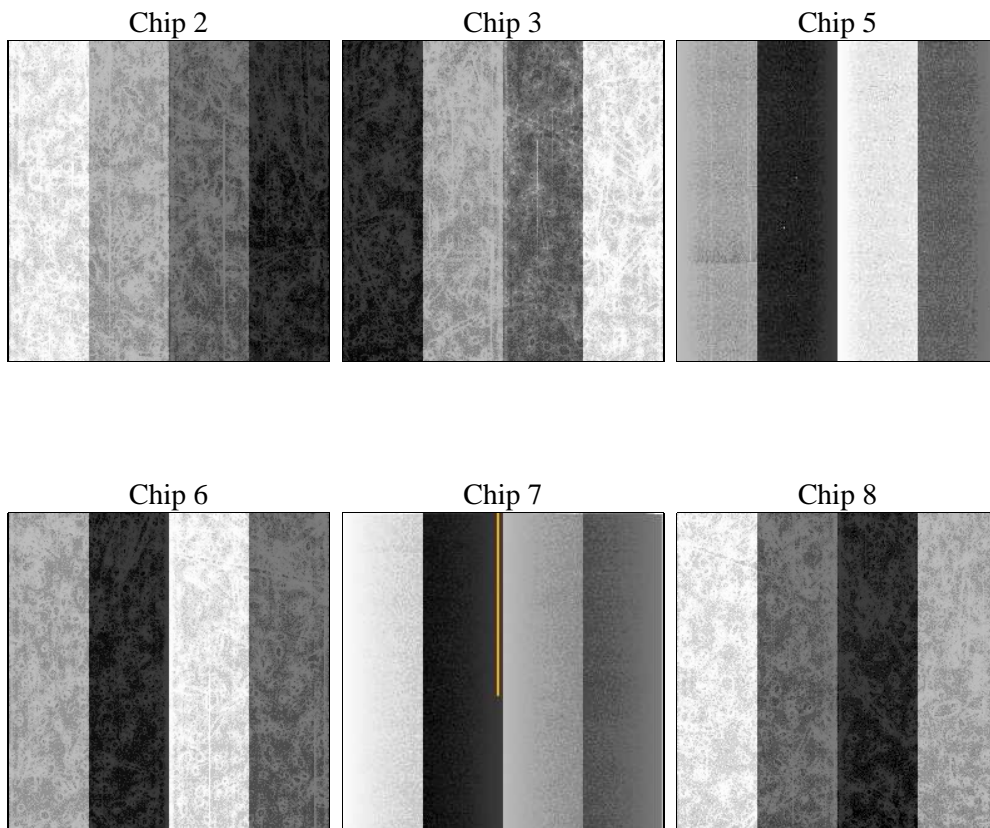
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	15043.01681459	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	15043.057854593	Sum of GTIs [s]
date	2012-04-28T14:15:53	Date and time of file creation	ontime3	15042.89369458	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15042.975774586	Sum of GTIs [s]
			ontime6	15042.934734583	Sum of GTIs [s]
			ontime7	15043.01681459	Sum of GTIs [s]
			ontime8	15039.611674249	Sum of GTIs [s]
			l1events	847702	Number of level 1 events

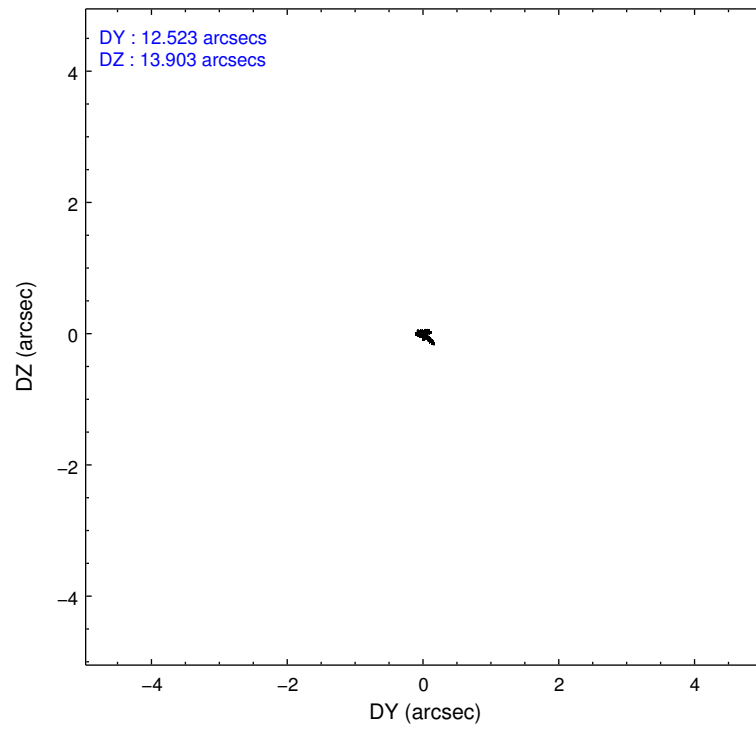
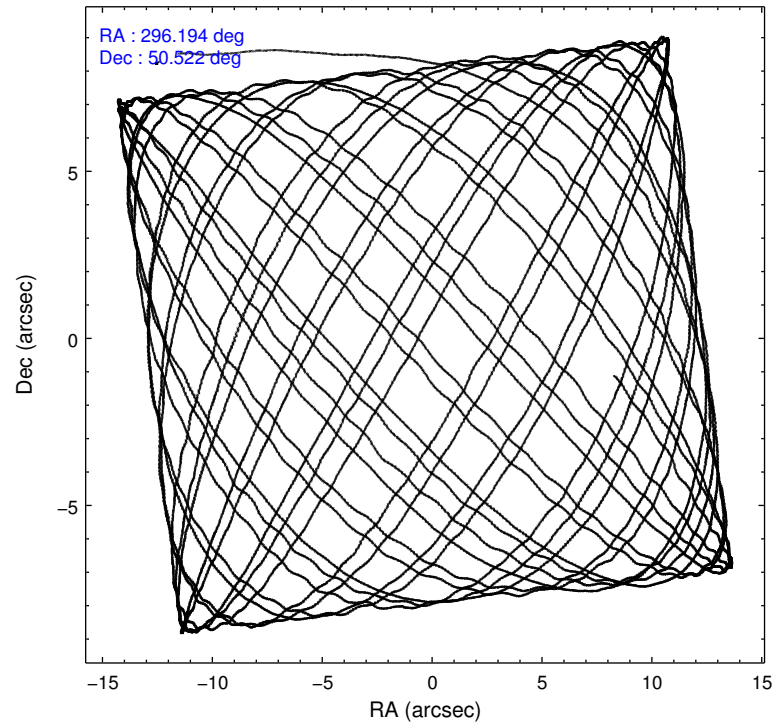
2.1.4 Events

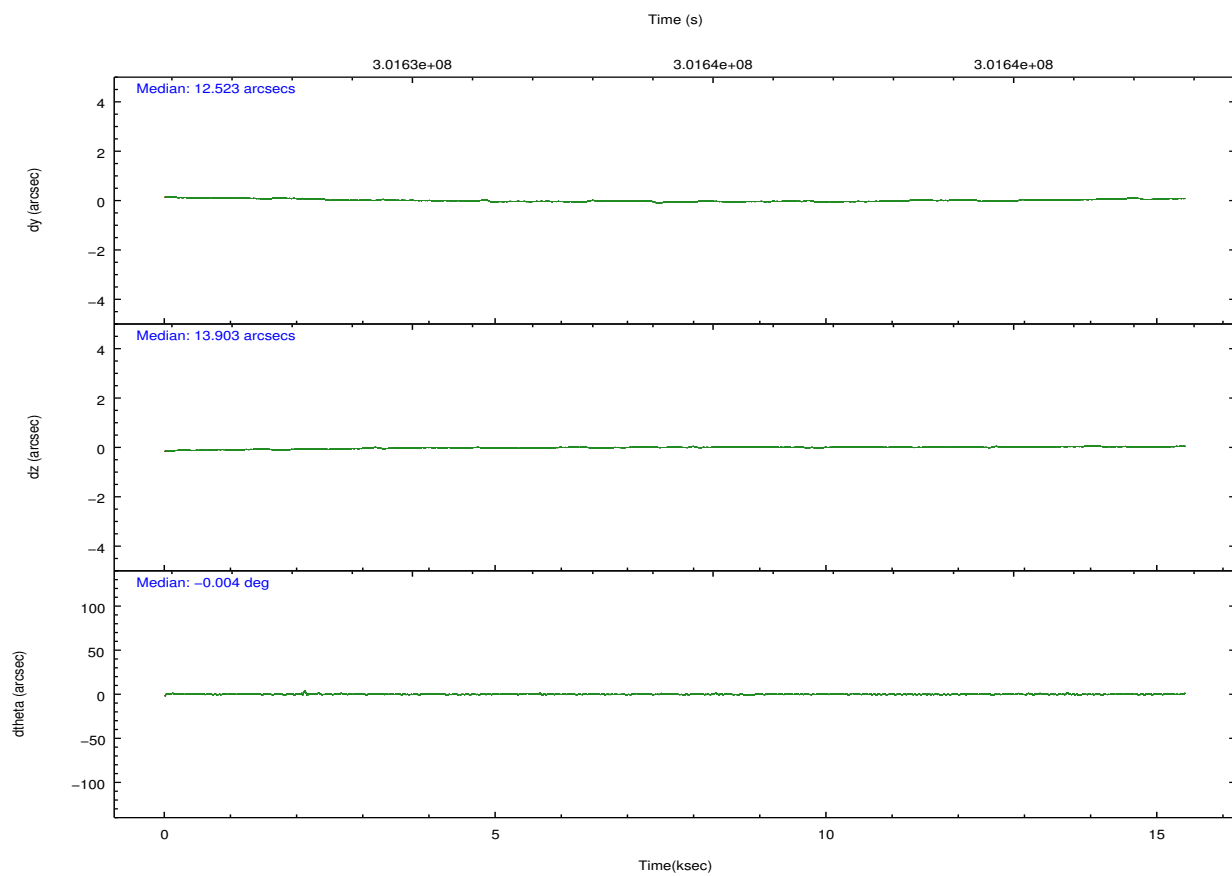
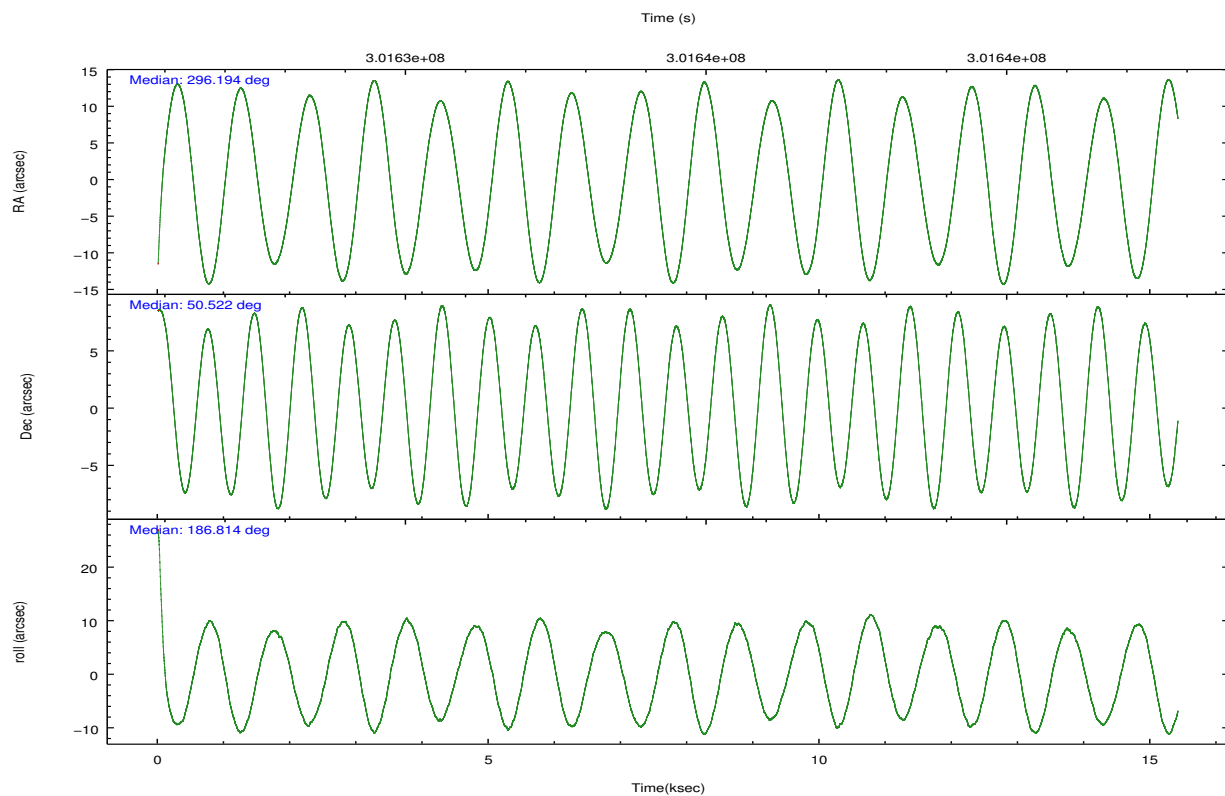
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	133601	120611	178543	128645	133172	153130	grade 0 events	4103	3929	18707	4287	5443	10730
rejected events	122186	109737	83982	116298	72978	117724		3%	3%	10%	3%	4%	7%
rejected %	91%	90%	47%	90%	54%	76%	grade 1 events	76	67	979	51	155	123
								0%	0%	0%	0%	0%	0%
							grade 2 events	2604	2260	26483	2728	12067	7939
								1%	1%	14%	2%	9%	5%
							grade 3 events	1246	1322	3160	1367	5448	3729
								0%	1%	1%	1%	4%	2%
							grade 4 events	1280	1265	2907	1318	5374	3433
								0%	1%	1%	1%	4%	2%
							grade 5 events	3936	4674	12093	4779	13663	6944
								2%	3%	6%	3%	10%	4%
							grade 6 events	2184	2103	43346	2651	31889	9611
								1%	1%	24%	2%	23%	6%
							grade 7 events	118172	104991	70868	111464	59133	110621
								88%	87%	39%	86%	44%	72%

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	296.228120	296.1940924906999	CCD I2 on	O1	Y
[deg] Pointing Dec	50.538663	50.52197350531901	CCD I3 on	O2	Y
[deg] Pointing Roll	186.636899	186.819799126977	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	Y	Y
[s] Observation start time (MET)	301627082.184000	301625964.34517	CCD S5 on	N	N
Observation start date	2007-07-24T01:16:57	2007-07-24T00:59:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	301642082.184000	301642507.33347	On-chip summing requested	N	N
Observation end date	2007-07-24T05:26:57	2007-07-24T05:35:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



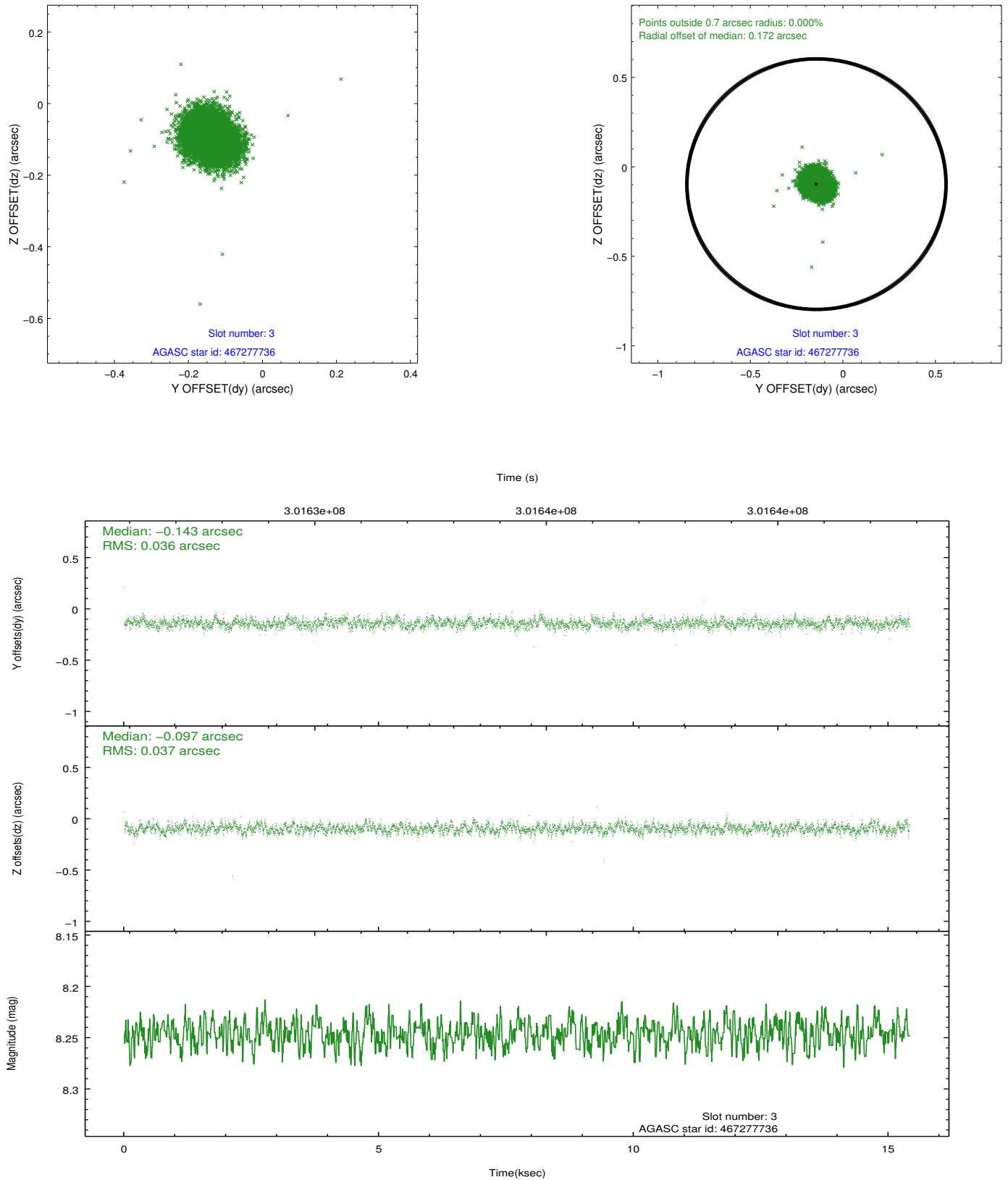


Slot Statistics

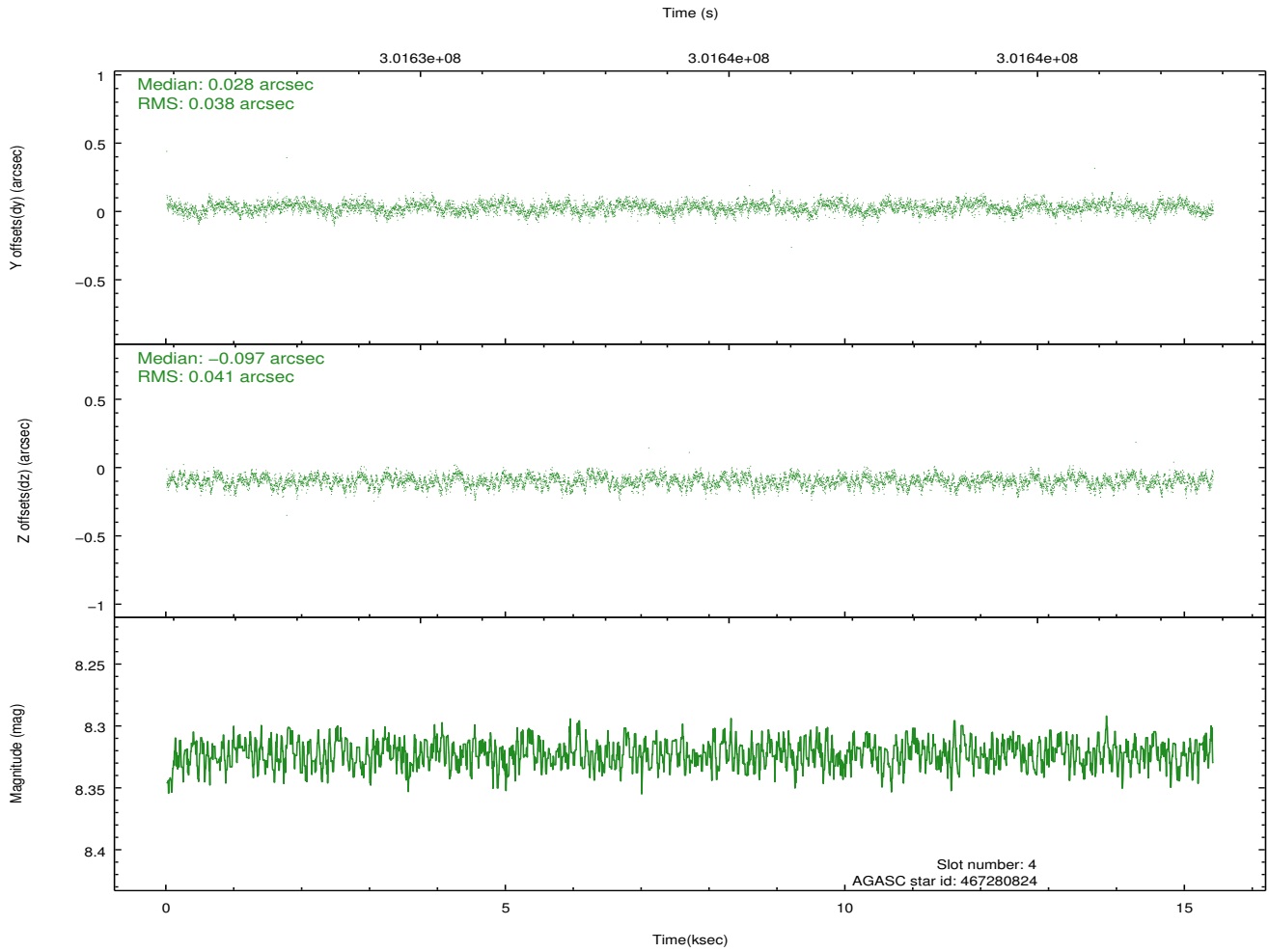
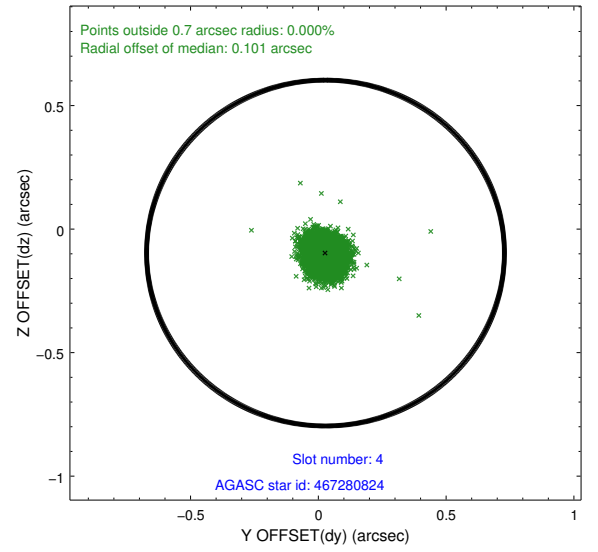
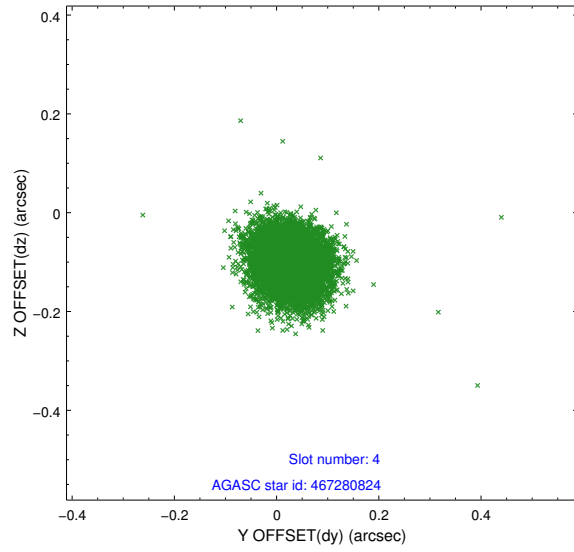
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	3760	-0.040	-0.056	0.007	0.011	0.000000	0.000000	-765.47	-1735.30
1	FID	ACIS-S-4	7.19	3760	0.155	0.034	0.006	0.011	0.000000	0.000000	2147.87	172.99
2	FID	ACIS-S-5	7.23	3760	-0.146	0.030	0.007	0.012	0.000000	0.000000	-1818.05	166.97
3	GUIDE	467277736	8.25	7513	-0.143	-0.097	0.054	0.087	295.465798	49.988796	1980.44	1753.66
4	GUIDE	467280824	8.32	7518	0.028	-0.097	0.059	0.095	296.736039	50.203107	-1023.00	1331.22
5	GUIDE	467282776	8.66	7510	0.098	-0.099	0.065	0.104	296.776128	50.380593	-1184.22	706.30
6	GUIDE	467798616	6.89	7519	-0.083	0.149	0.046	0.076	295.929610	51.066831	451.19	-1967.62
7	GUIDE	467799896	8.24	7515	0.100	0.147	0.055	0.090	296.921408	51.109327	-1794.13	-1866.99

2.4 Star Slots

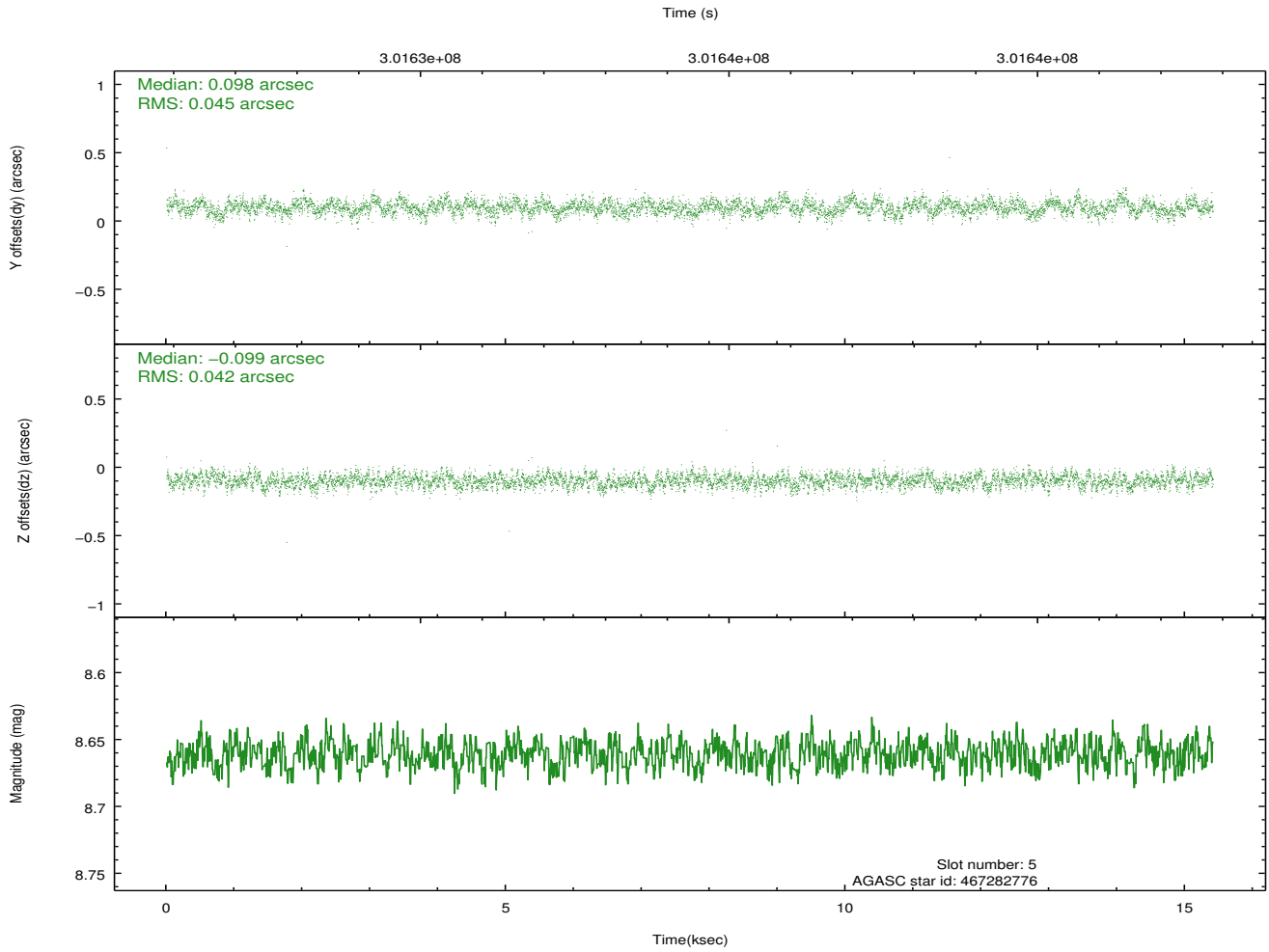
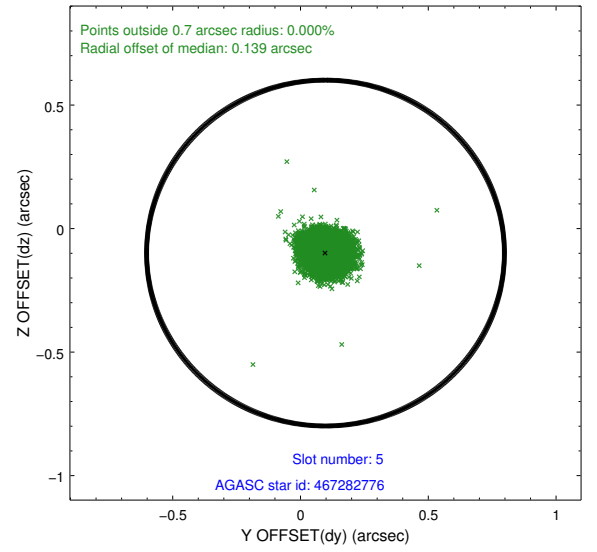
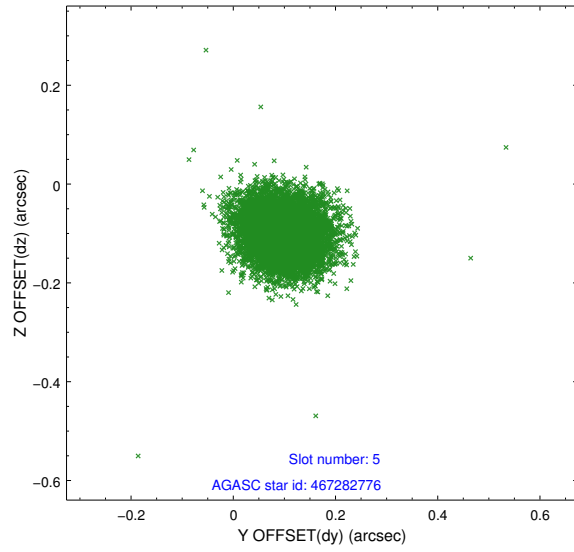
2.4.1 Slot 3



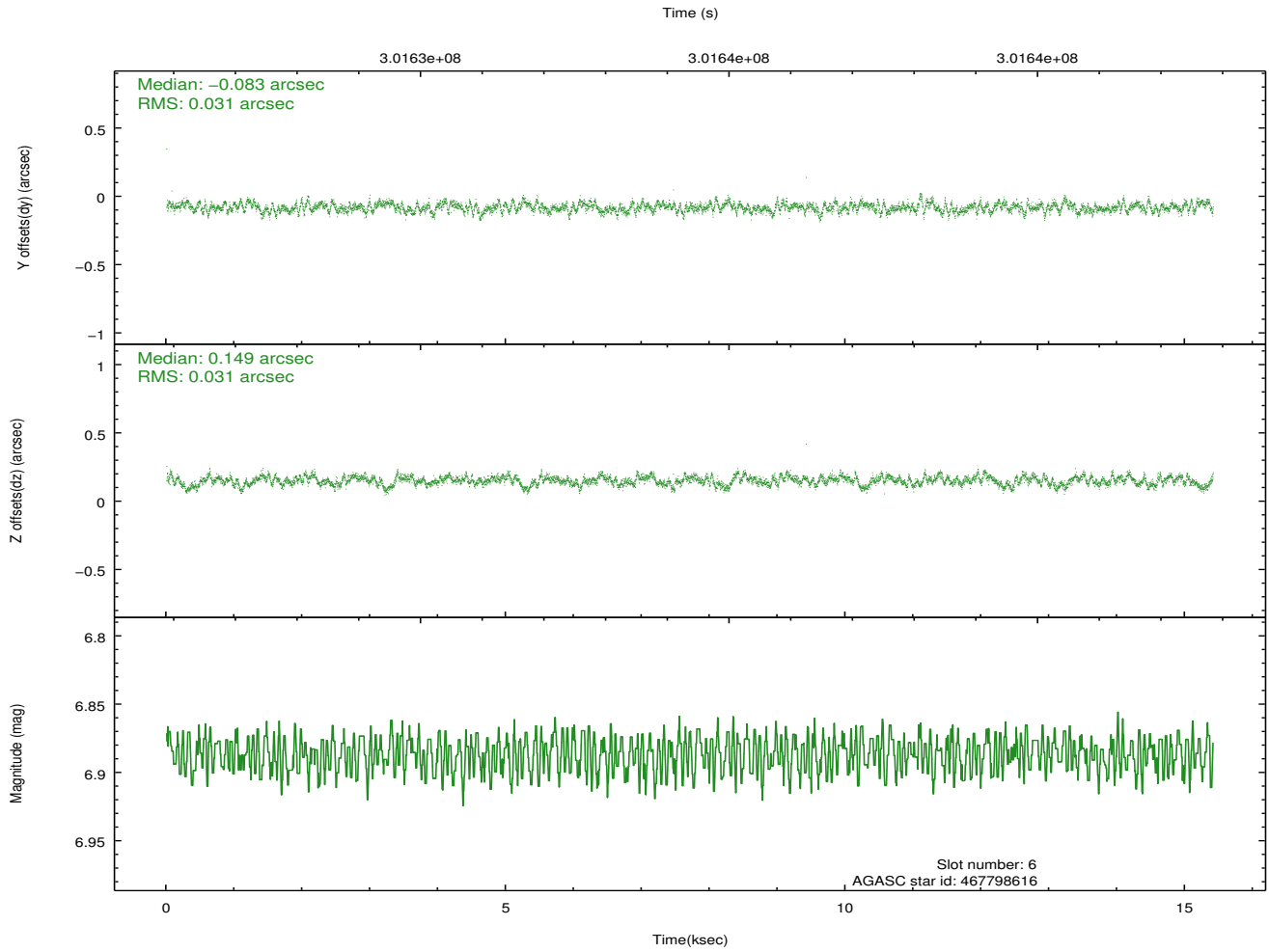
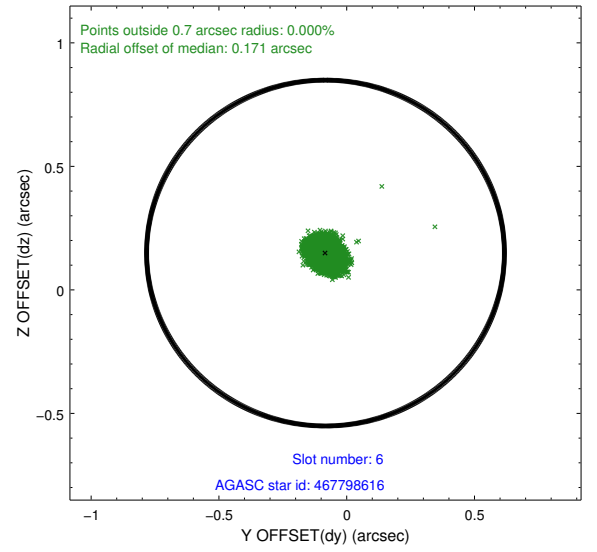
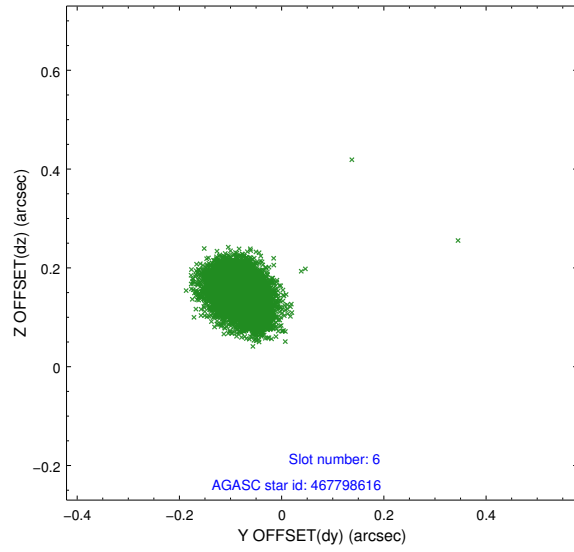
2.4.2 Slot 4



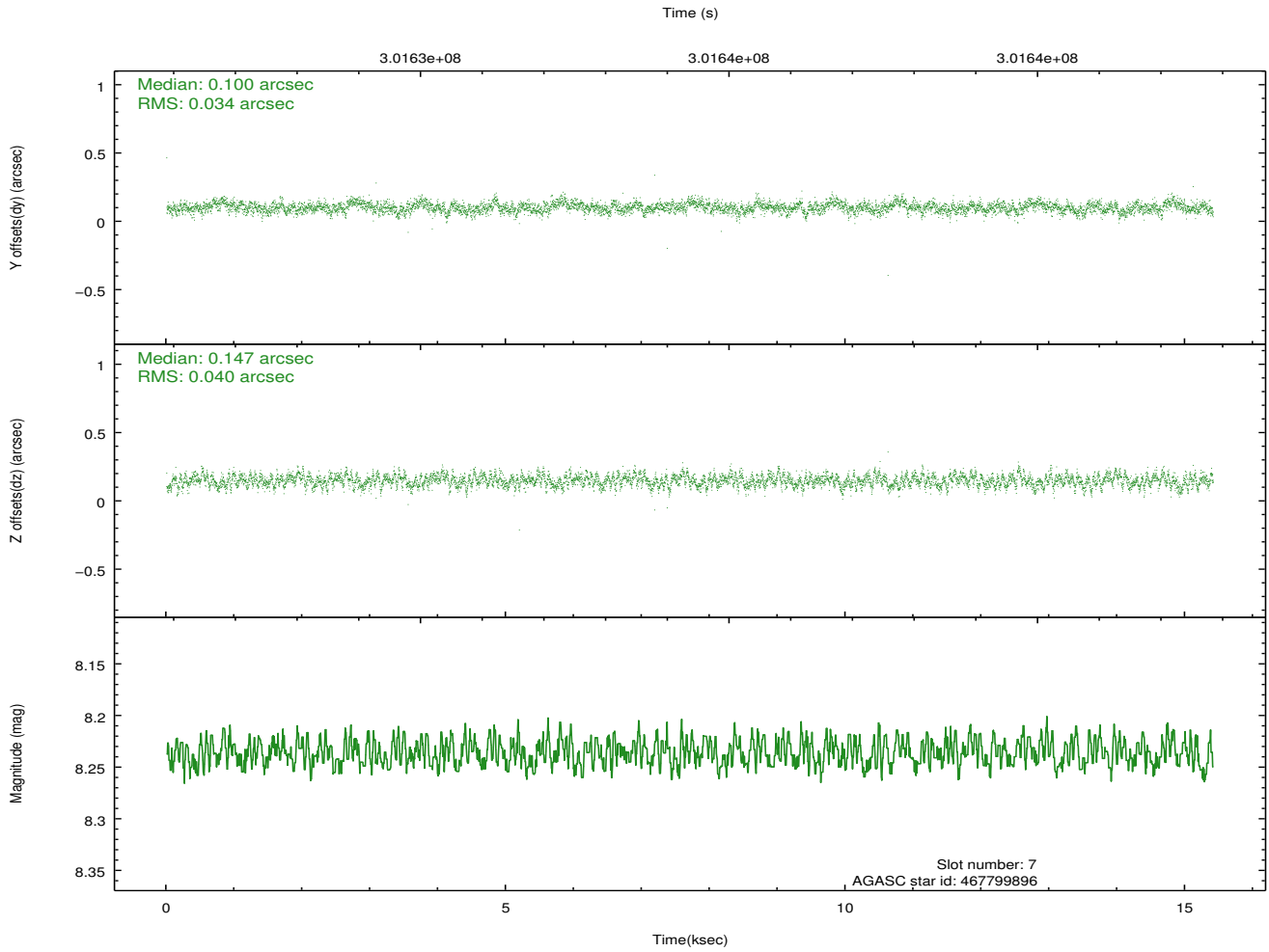
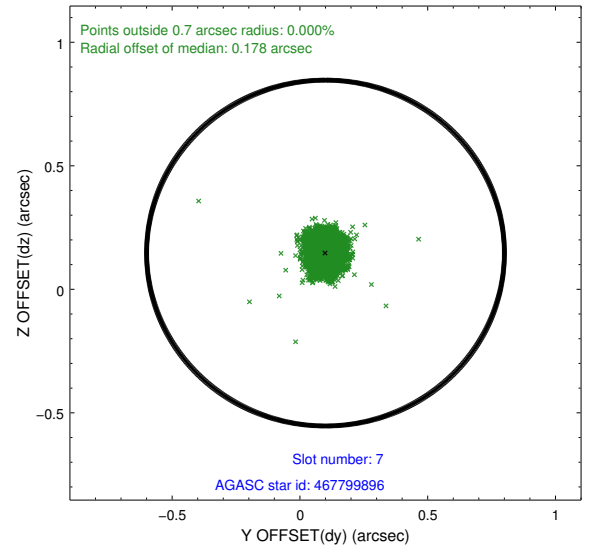
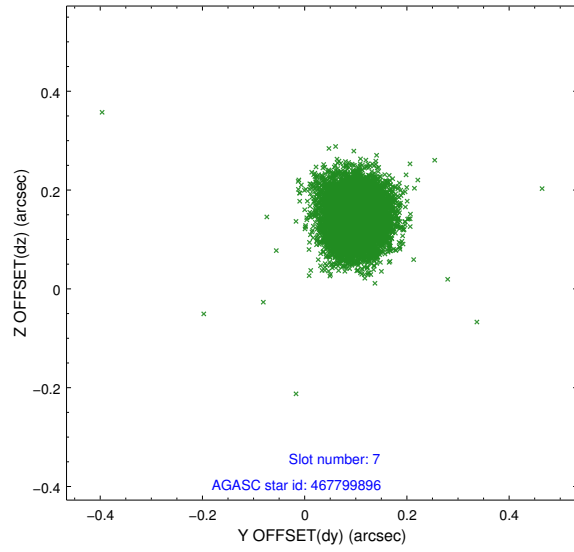
2.4.3 Slot 5



2.4.4 Slot 6

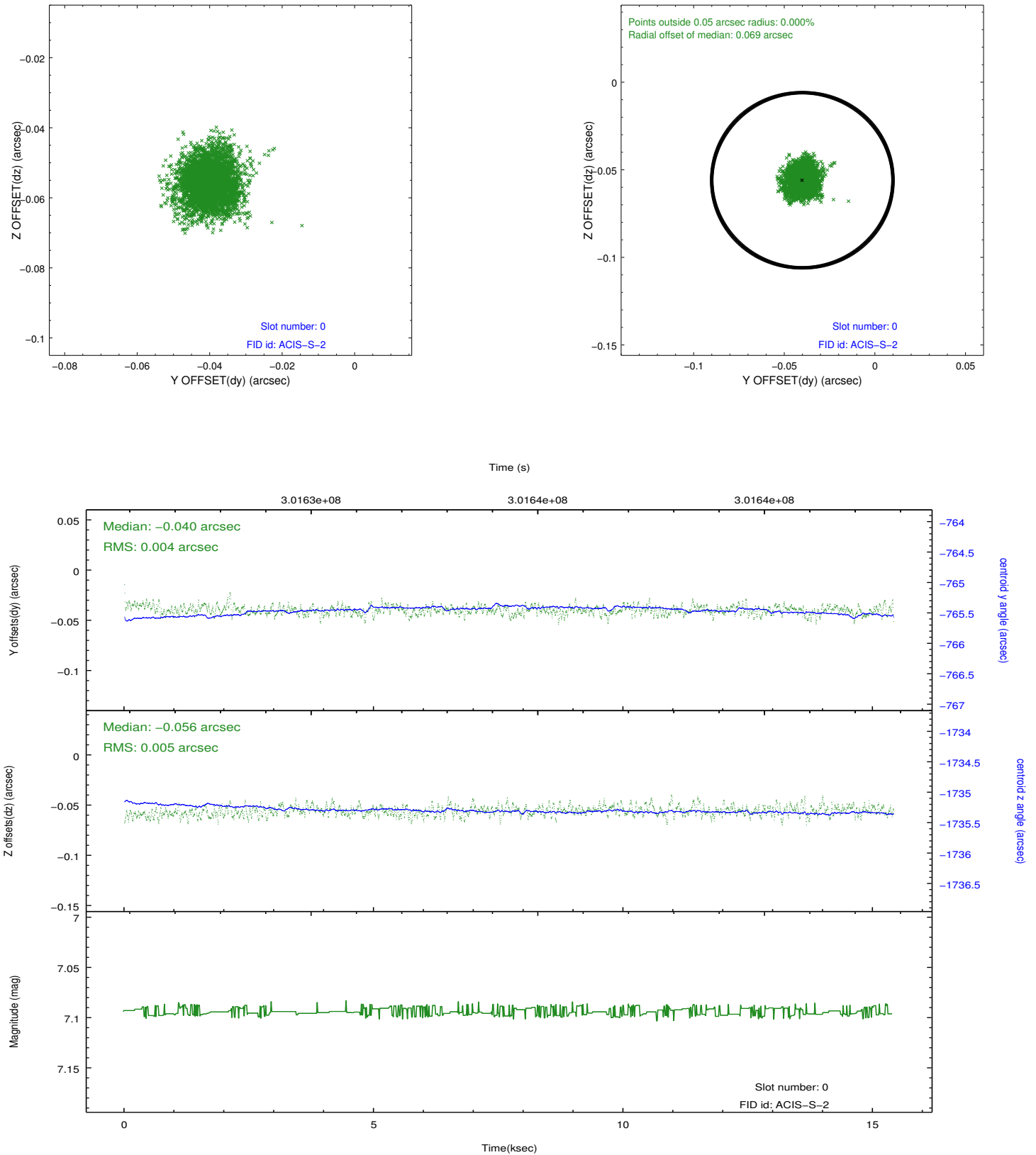


2.4.5 Slot 7

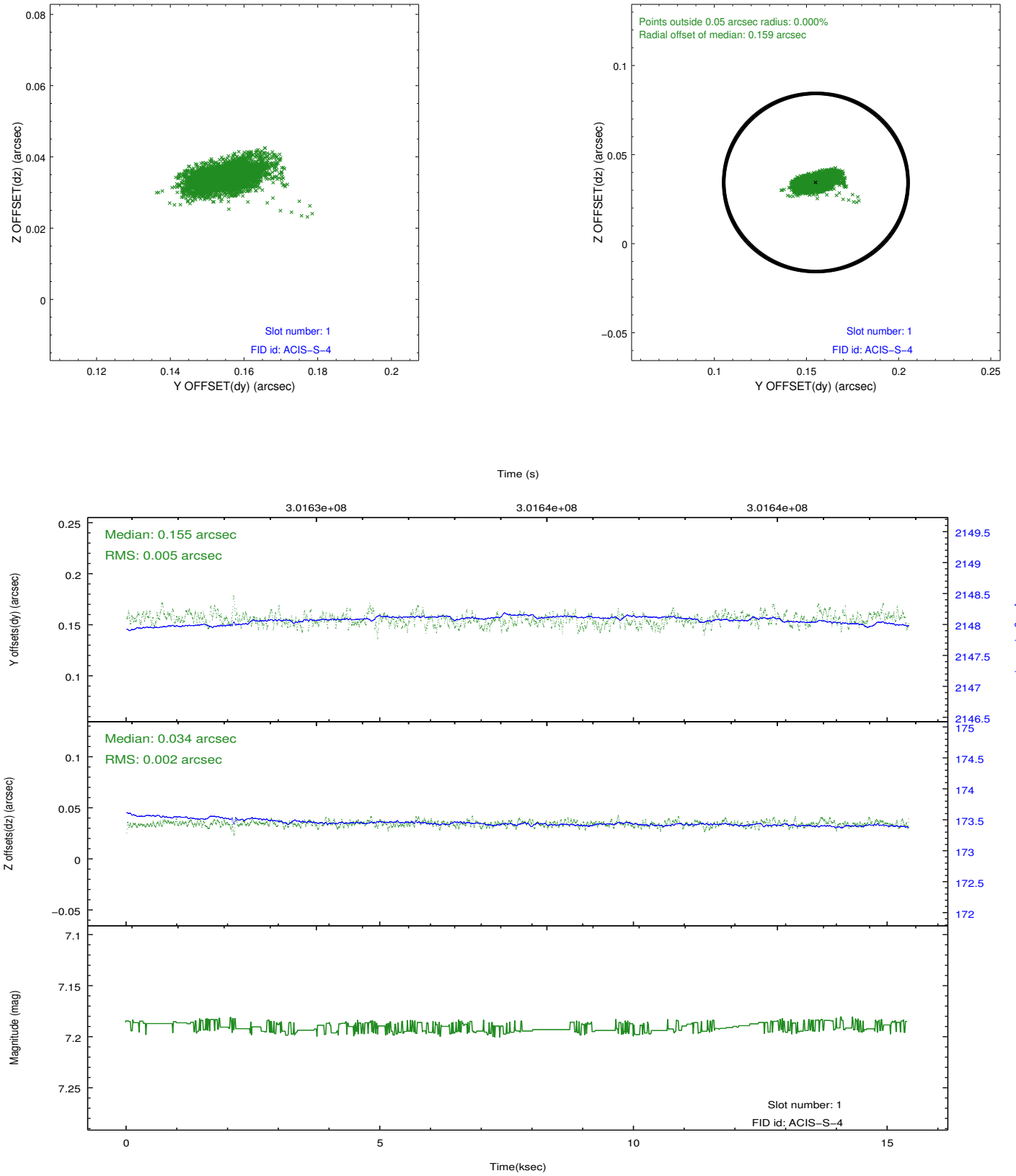


2.5 FID Slots

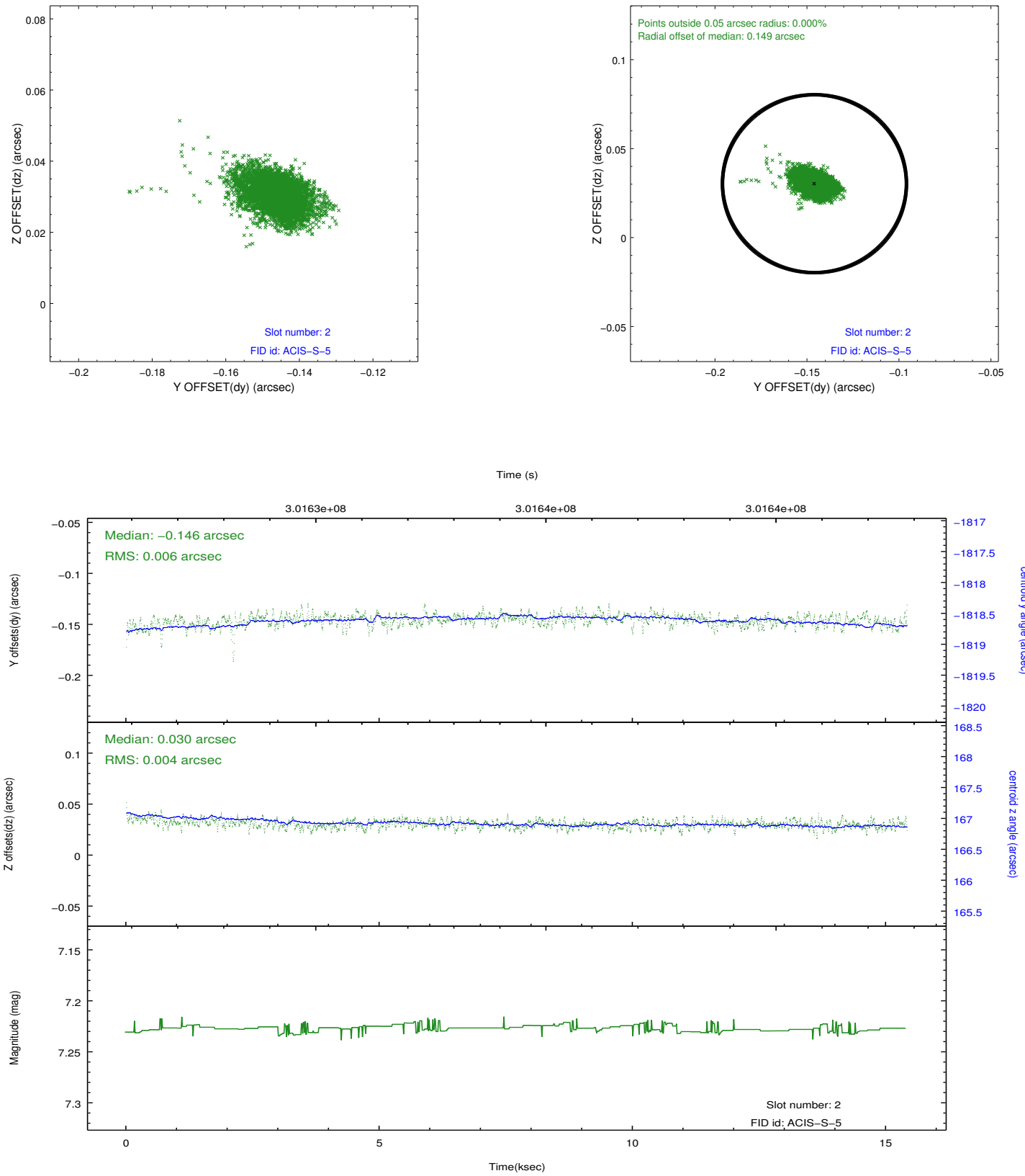
2.5.1 Slot 0



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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.0431999

A.2 Comments