

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14607 - L2 Version 2
Chandra X-Ray Center

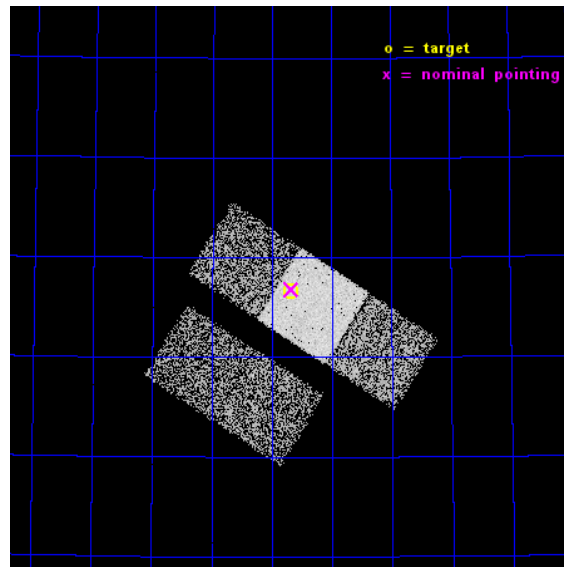
L2 Processing Date : Dec 1 2014

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

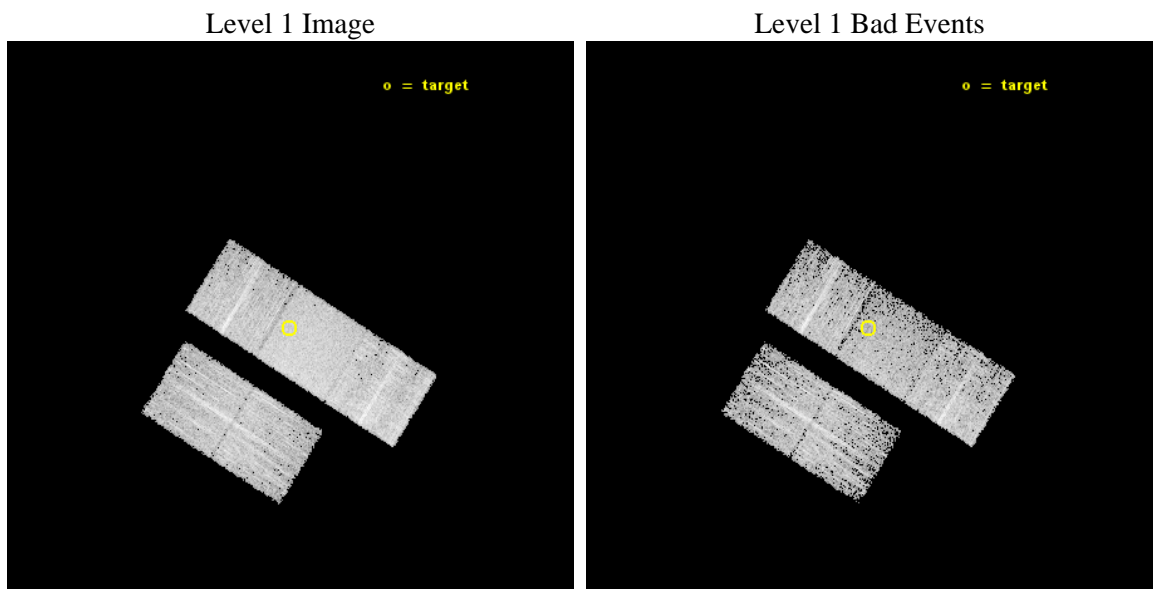
seq_num	300314	Sequence number
obs_id	14607	Observation id
title	Extremely Low-Mass White Dwarfs with Neutron Star Companions	Propo
observer	Dr. Mukremin Kilic	Principal investigator
object	J1741+6526	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.41875	Observer's specified target RA [deg]
dec_targ	65.444083	Observer's specified target Dec [deg]
ra_nom	265.41869263797	Nominal RA [deg]
dec_nom	65.447029449821	Nominal Dec [deg]
roll_nom	32.411883801743	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6066.7000466585	Sum of GTIs [s]
livetime	5987.4341443093	Livetime [s]
ontime2	6066.7000466585	Sum of GTIs [s]
ontime3	6066.7000466585	Sum of GTIs [s]
ontime6	6066.7000466585	Sum of GTIs [s]
ontime7	6066.7000466585	Sum of GTIs [s]
ontime8	6066.7000466585	Sum of GTIs [s]
l2events	32699	Number of level 2 events



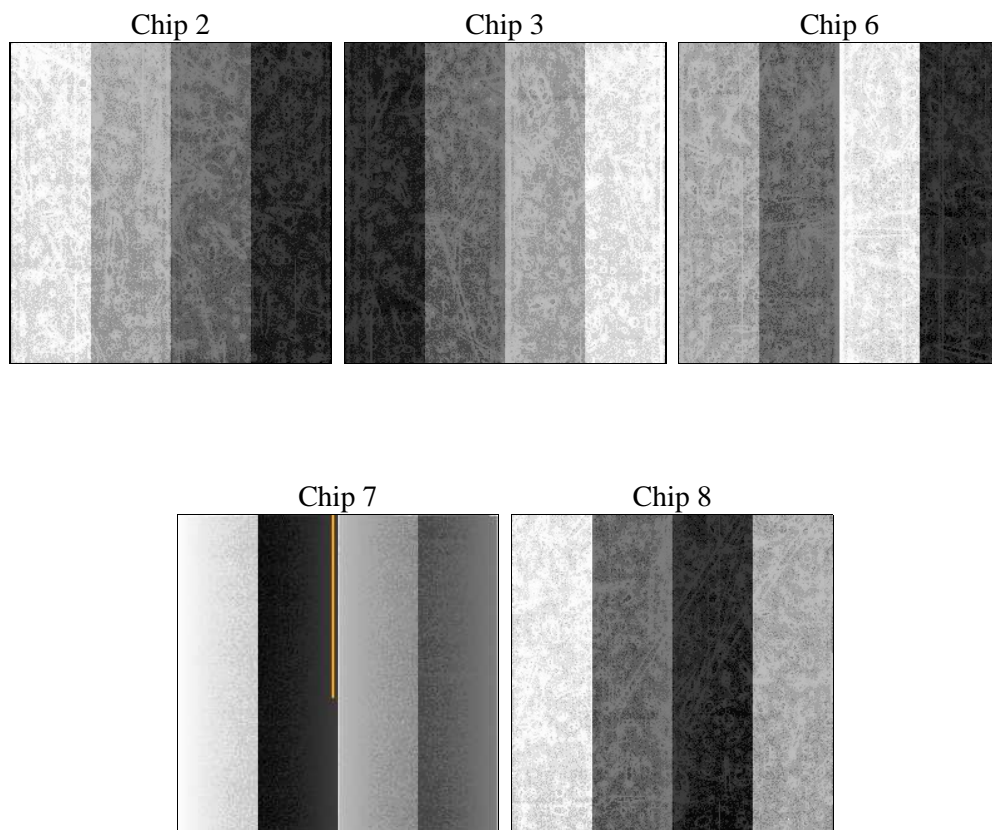
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	6066.7000466585	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	6066.7000466585	Sum of GTIs [s]
date	2014-12-01T03:26:14	Date and time of file creation	ontime3	6066.7000466585	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6066.7000466585	Sum of GTIs [s]
			ontime7	6066.7000466585	Sum of GTIs [s]
			ontime8	6066.7000466585	Sum of GTIs [s]
			l1events	185815	Number of level 1 events

2.1.4 Events

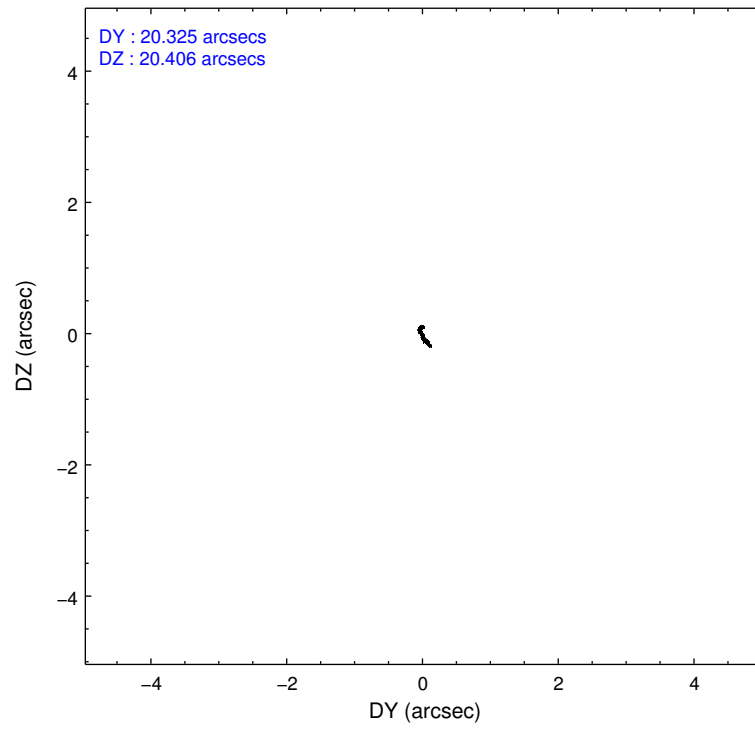
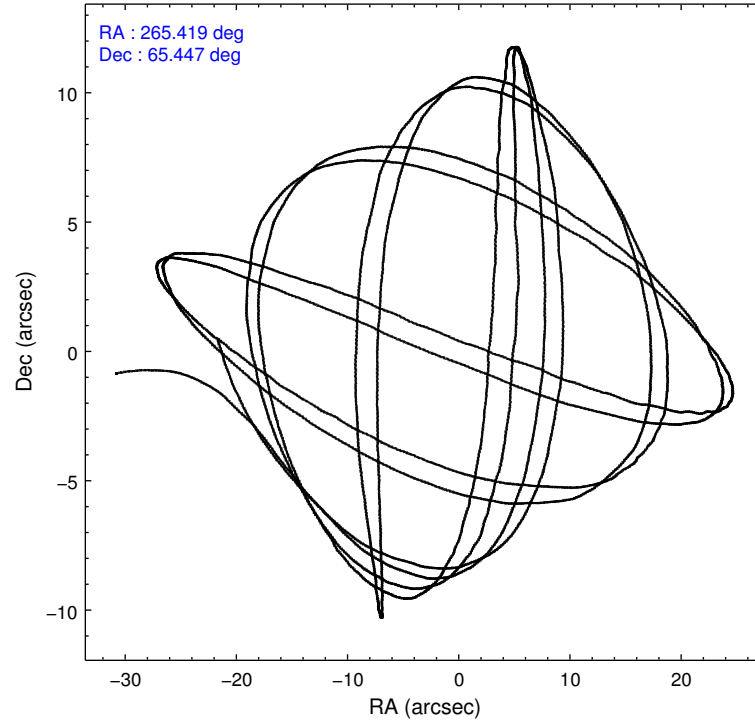
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	31345	32017	33654	44234	44565
rejected events	27718	28470	29725	24768	32101
rejected %	88%	88%	88%	55%	72%

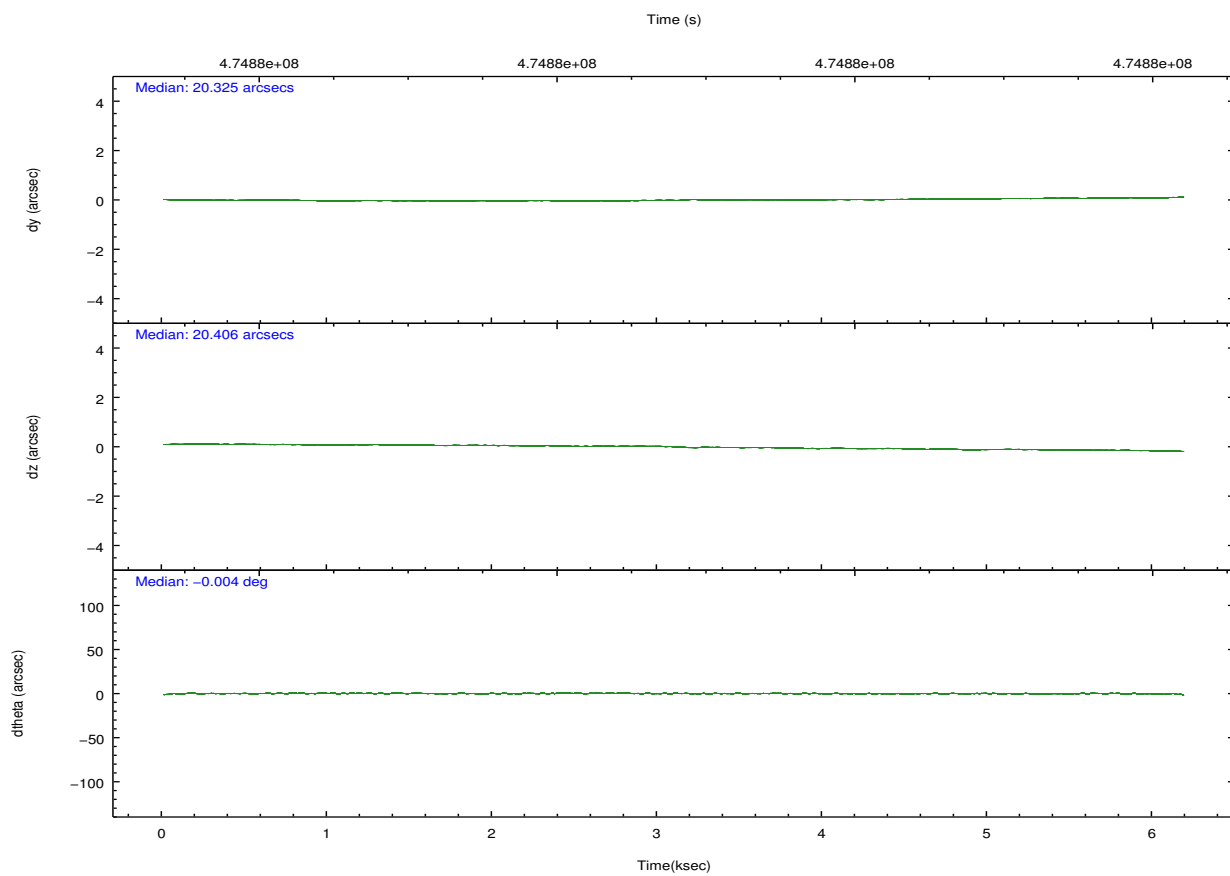
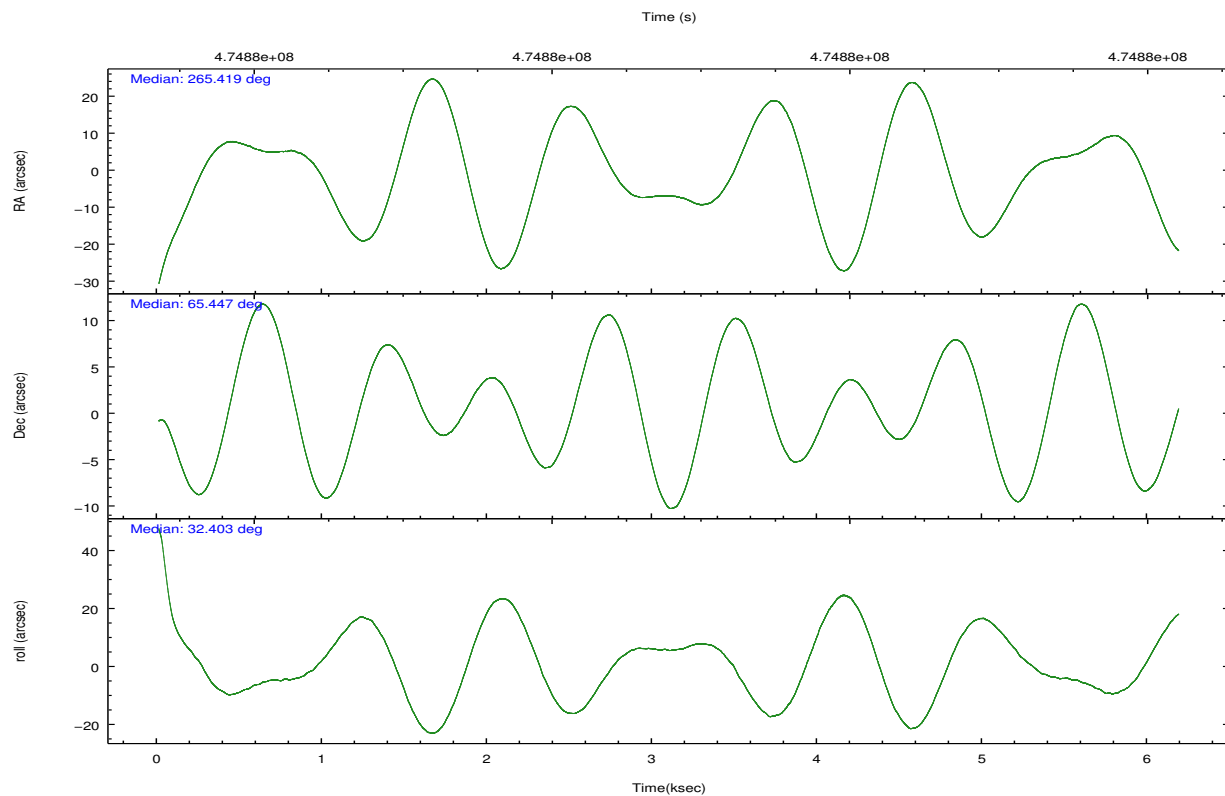
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1312	1228	1295	1734	3748
	4%	3%	3%	3%	8%
grade 1 events	14	28	17	59	53
	0%	0%	0%	0%	0%
grade 2 events	921	778	930	3996	2786
	2%	2%	2%	9%	6%
grade 3 events	359	379	406	1714	1419
	1%	1%	1%	3%	3%
grade 4 events	379	412	419	1636	1386
	1%	1%	1%	3%	3%
grade 5 events	1372	1670	1780	4603	2477
	4%	5%	5%	10%	5%
grade 6 events	657	753	880	10402	3125
	2%	2%	2%	23%	7%
grade 7 events	26331	26769	27927	20090	29571
	84%	83%	82%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	265.389128	265.4186926379654	CCD I2 on	O2	Y
[deg] Pointing Dec	65.422698	65.44702944982109	CCD I3 on	O1	Y
[deg] Pointing Roll	32.282096	32.41188380174251	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O4	Y
[s] Observation start time (MET)	474875876.184000	474874119.40899	CCD S5 on	N	N
Observation start date	2013-01-18T05:56:49	2013-01-18T05:28:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	474881876.184000	474883396.68449	On-chip summing requested	N	N
Observation end date	2013-01-18T07:36:49	2013-01-18T08:03:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



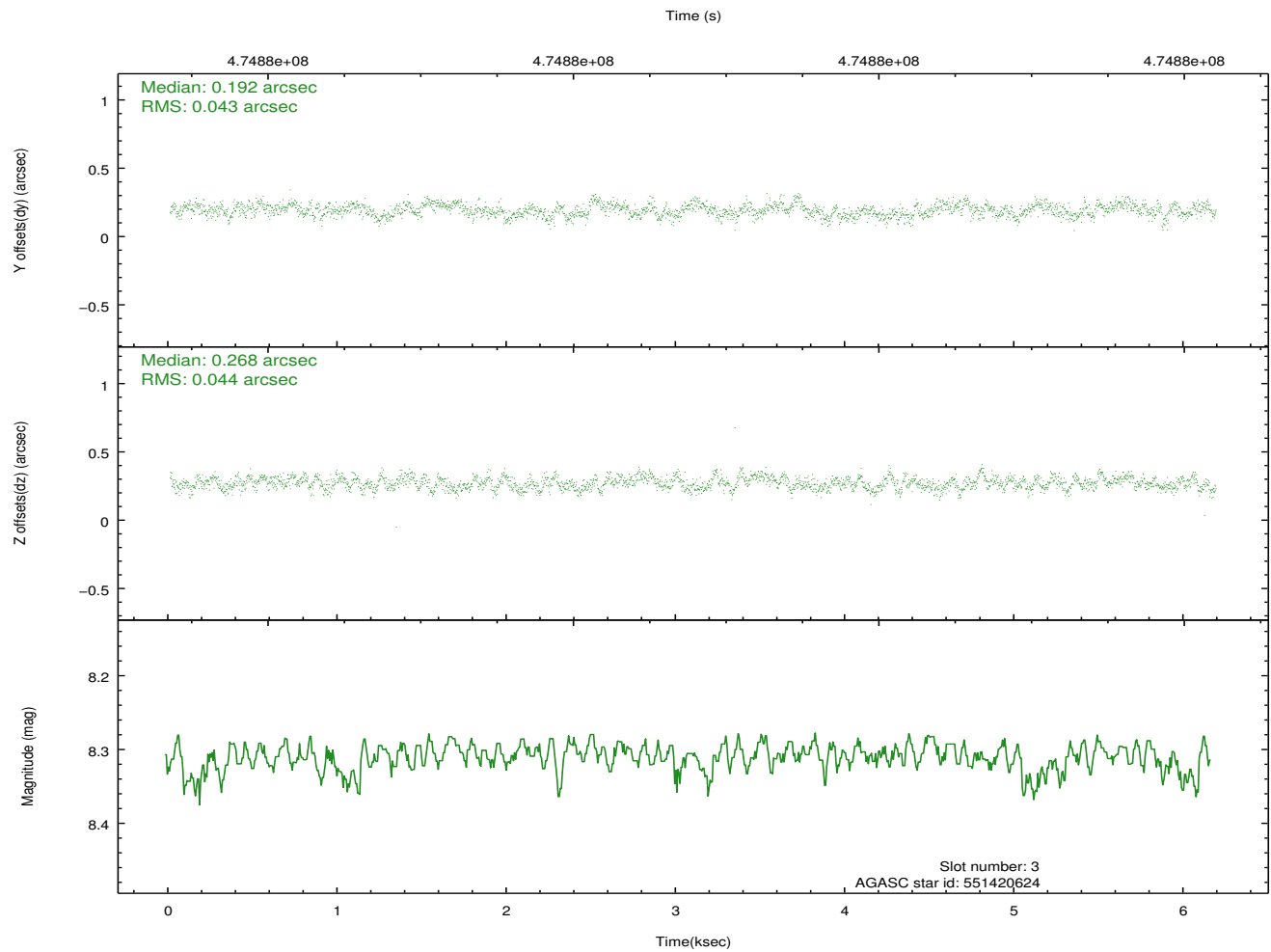
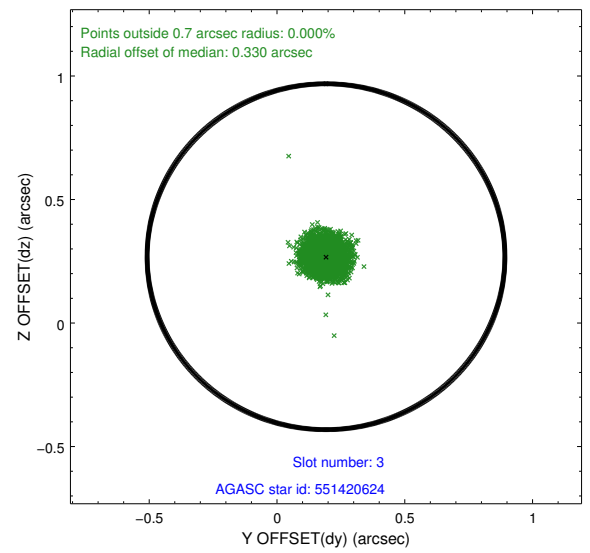
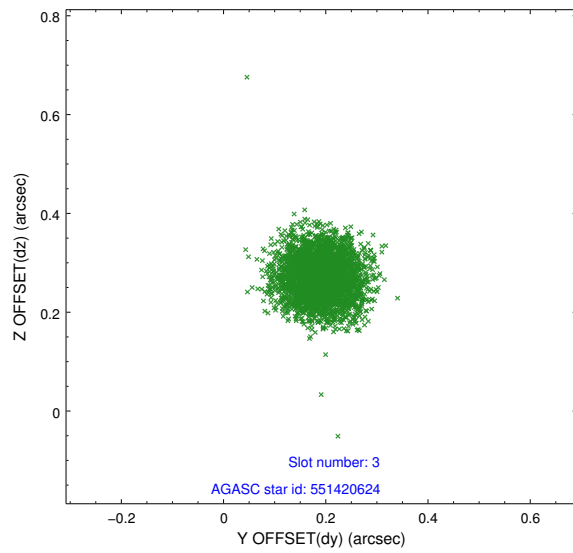


Slot Statistics

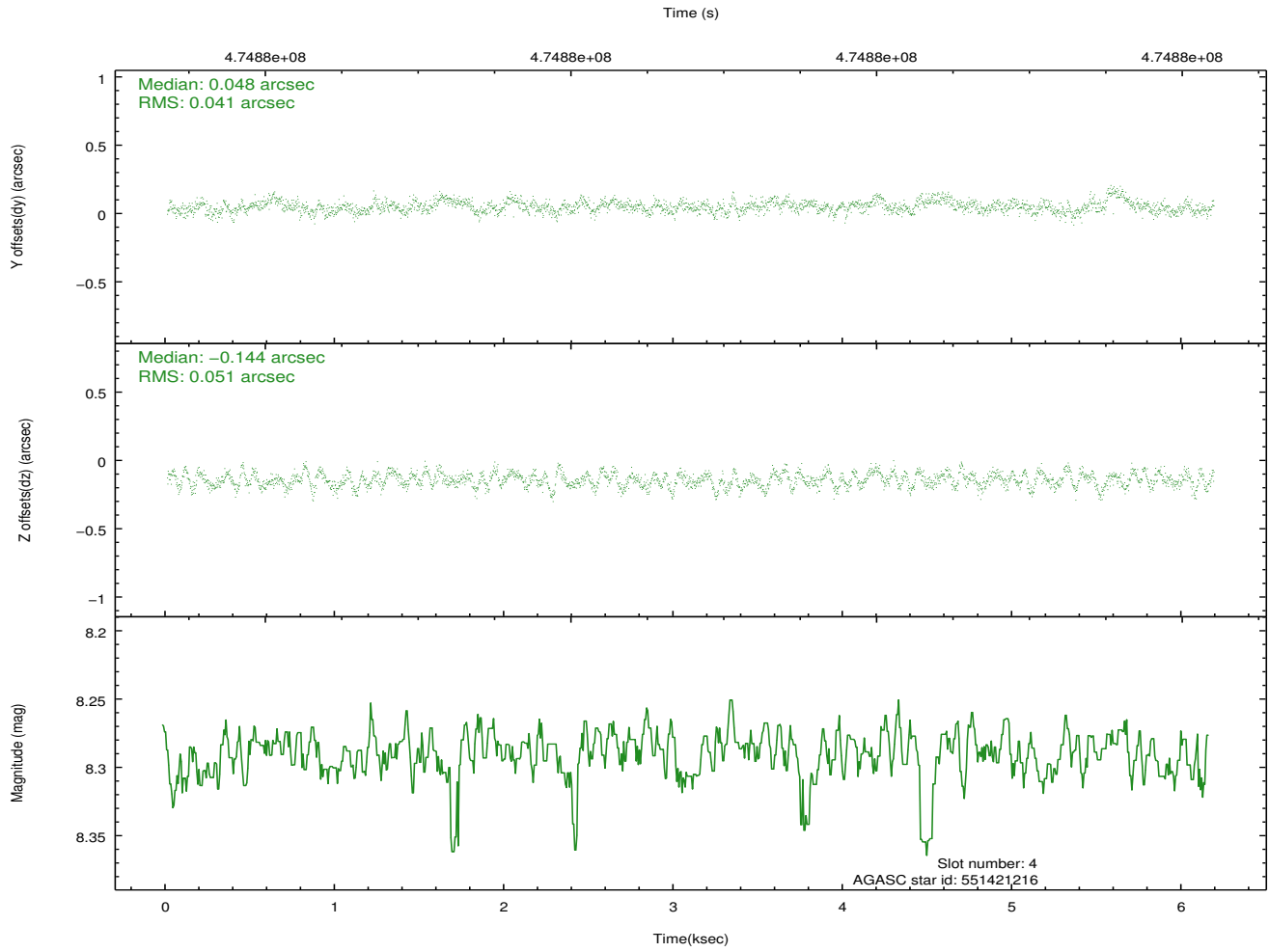
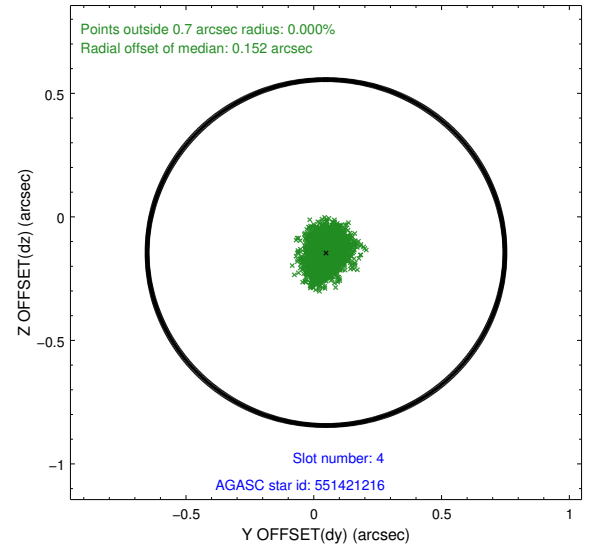
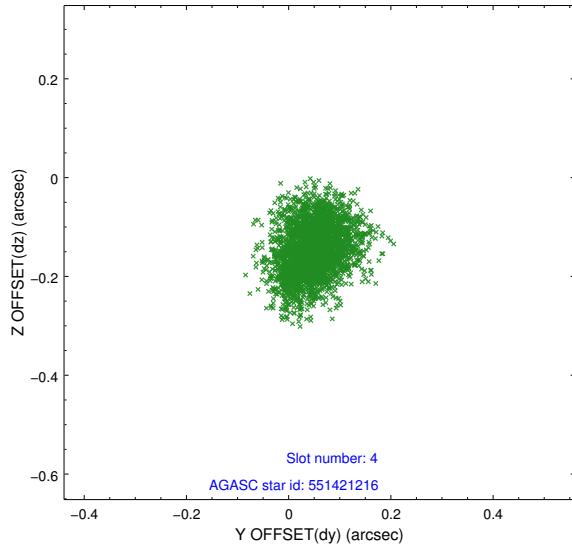
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	1508	-0.122	0.004	0.009	0.015	0.000000	0.000000	-773.58	-1741.85
1	FID		ACIS-S-4	7.02	1508	0.211	0.058	0.006	0.012	0.000000	0.000000	2139.60	165.67
2	FID		ACIS-S-5	7.04	1508	-0.120	-0.053	0.009	0.015	0.000000	0.000000	-1825.19	160.34
3	GUIDE	used	551420624	8.31	3014	0.192	0.268	0.065	0.103	265.293044	65.219516	-512.25	-540.27
4	GUIDE	used	551421216	8.29	3016	0.048	-0.144	0.070	0.113	264.982051	65.001642	-1330.89	-947.83
5	GUIDE	used	551945976	8.15	3011	-0.386	-0.358	0.081	0.126	265.399801	65.924007	976.75	1517.27
6	GUIDE	used	551424912	8.03	2955	0.229	0.049	0.060	0.098	264.662705	64.844529	-2046.50	-1159.79
7	GUIDE	used	551425120	8.42	3013	-0.080	0.186	0.081	0.128	264.922200	64.536404	-2315.26	-2309.71

2.4 Star Slots

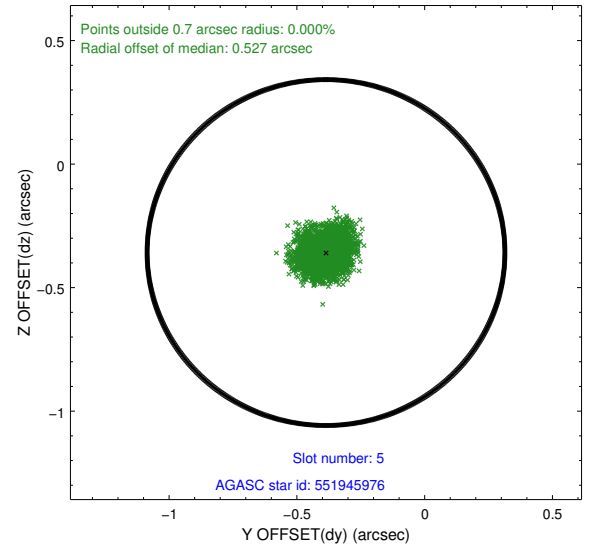
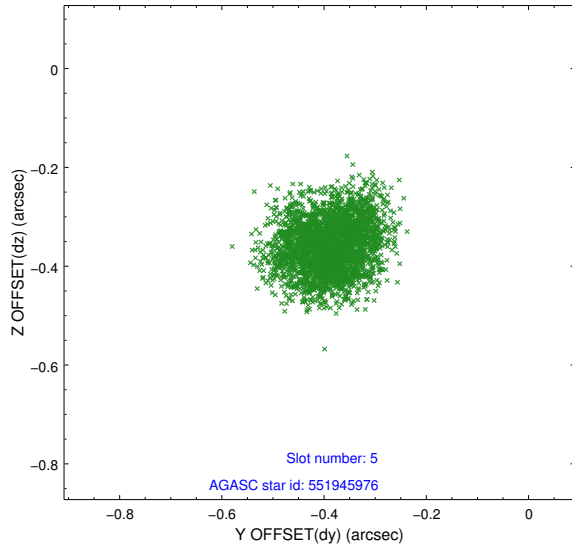
2.4.1 Slot 3



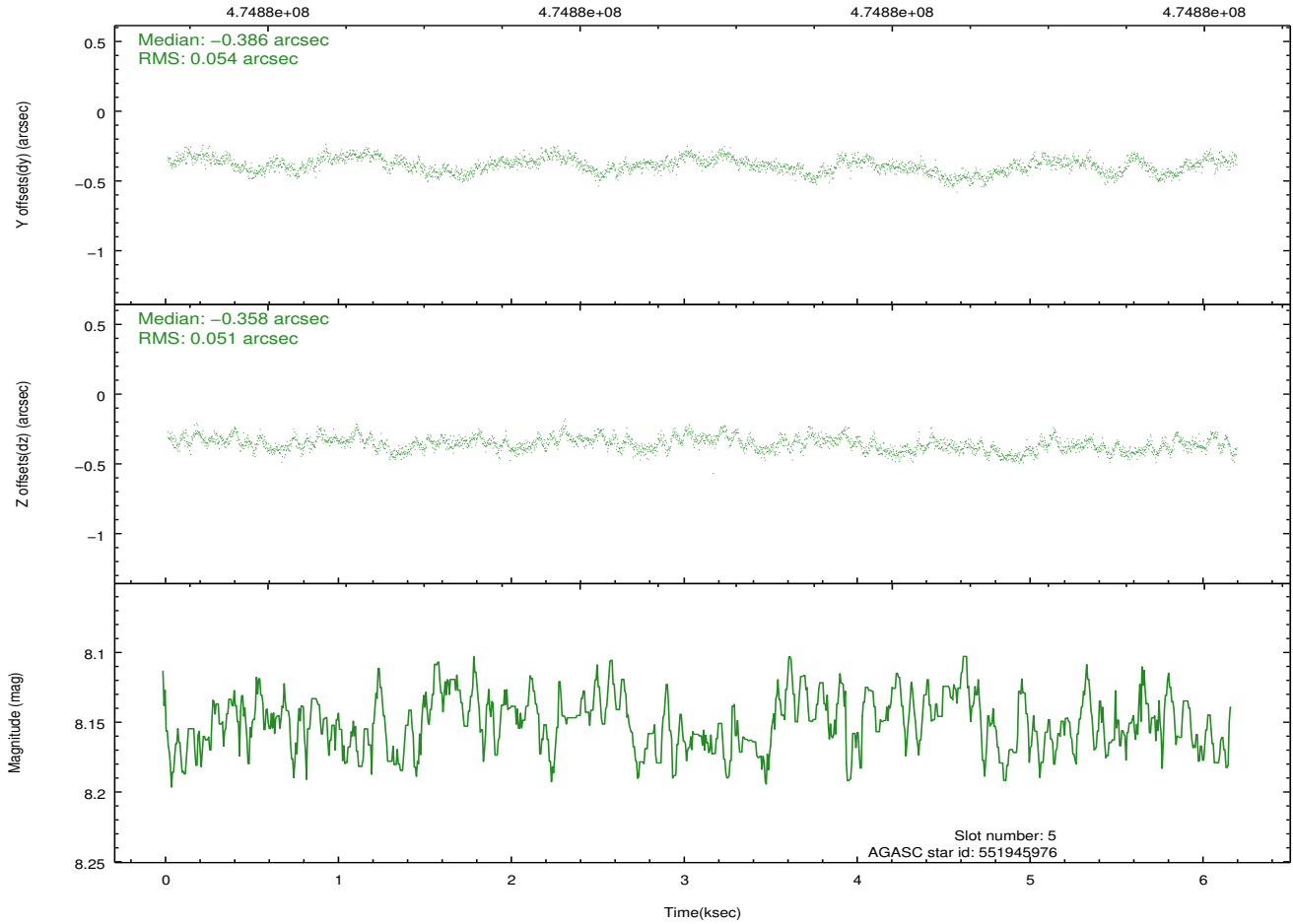
2.4.2 Slot 4



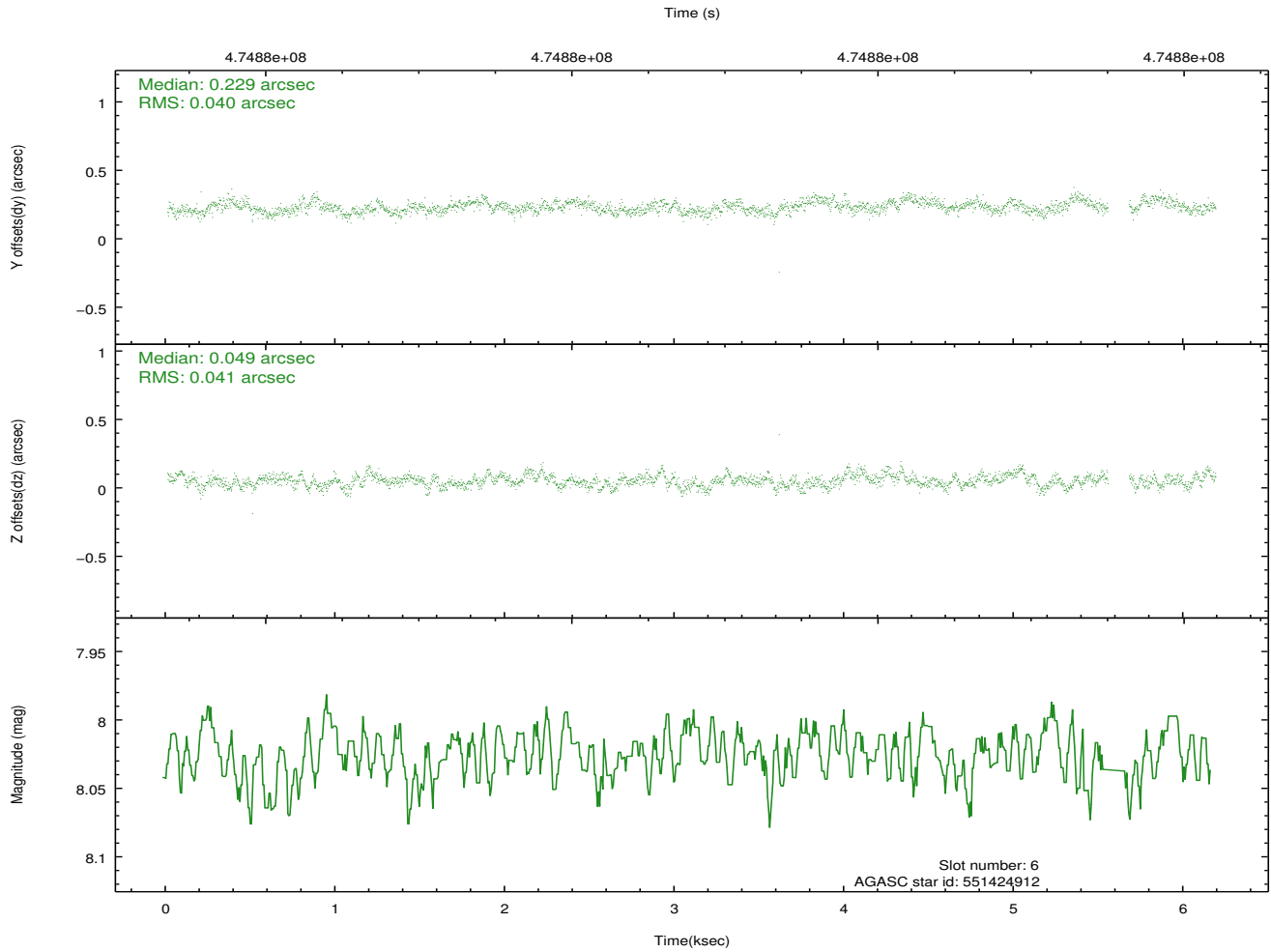
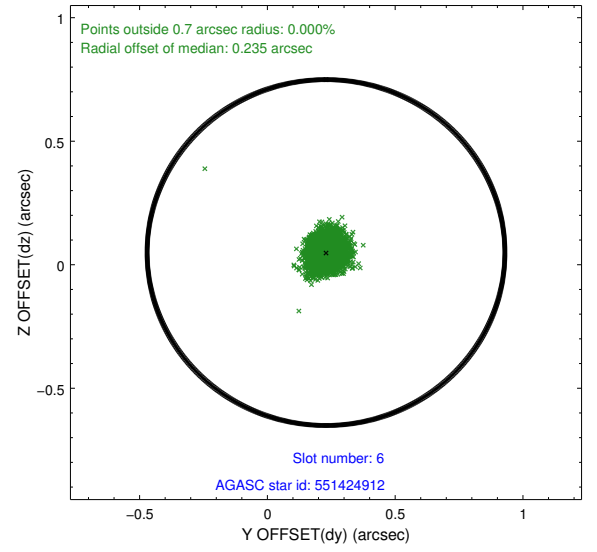
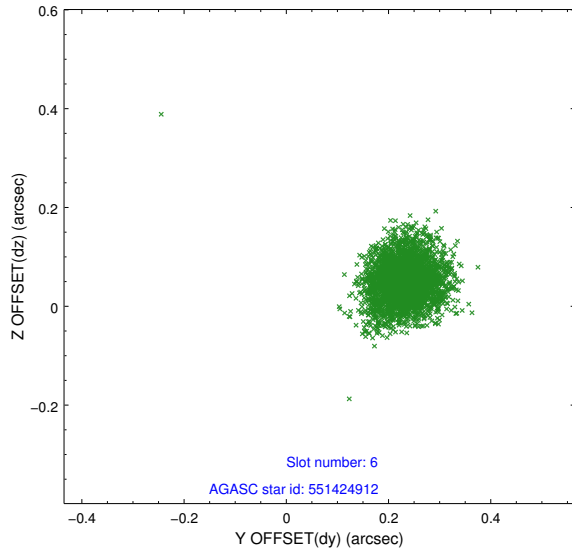
2.4.3 Slot 5



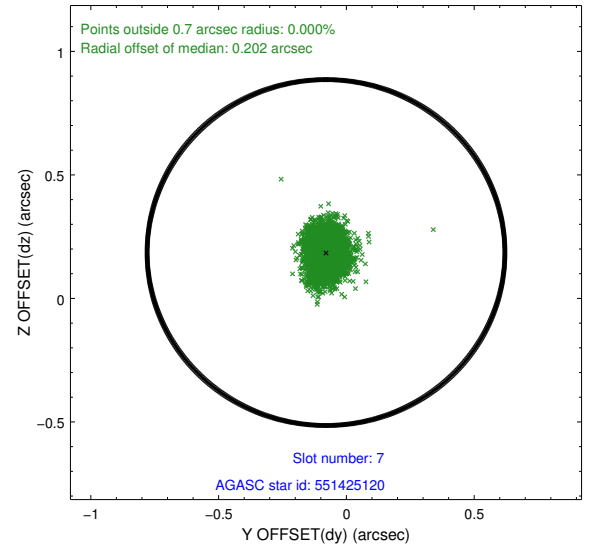
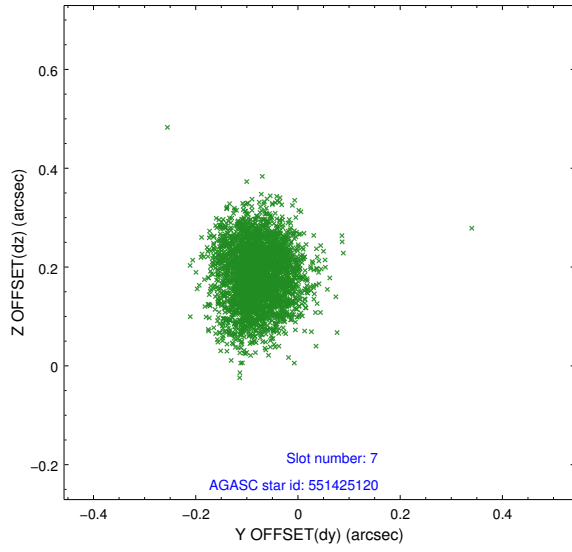
Time (s)



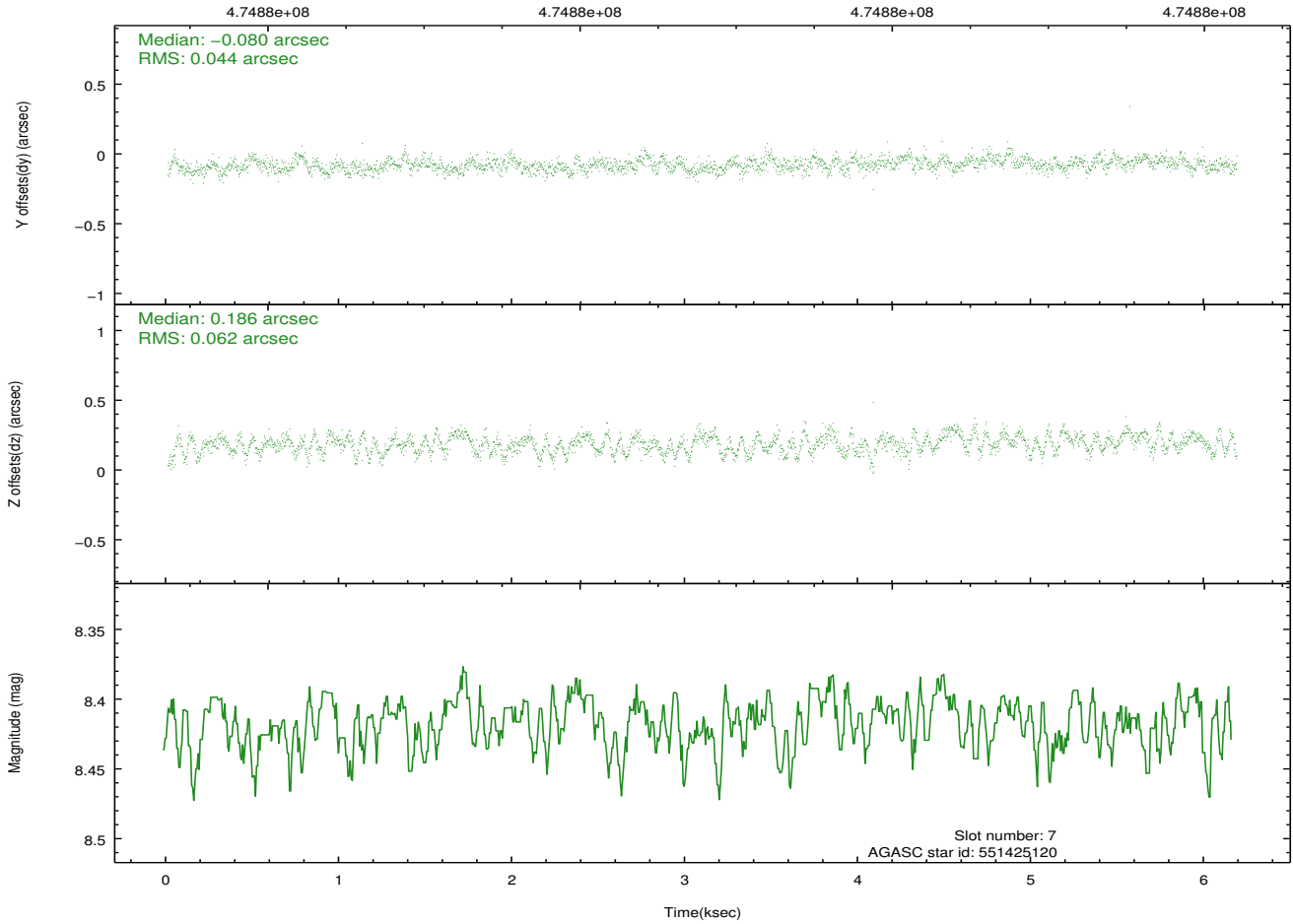
2.4.4 Slot 6



2.4.5 Slot 7

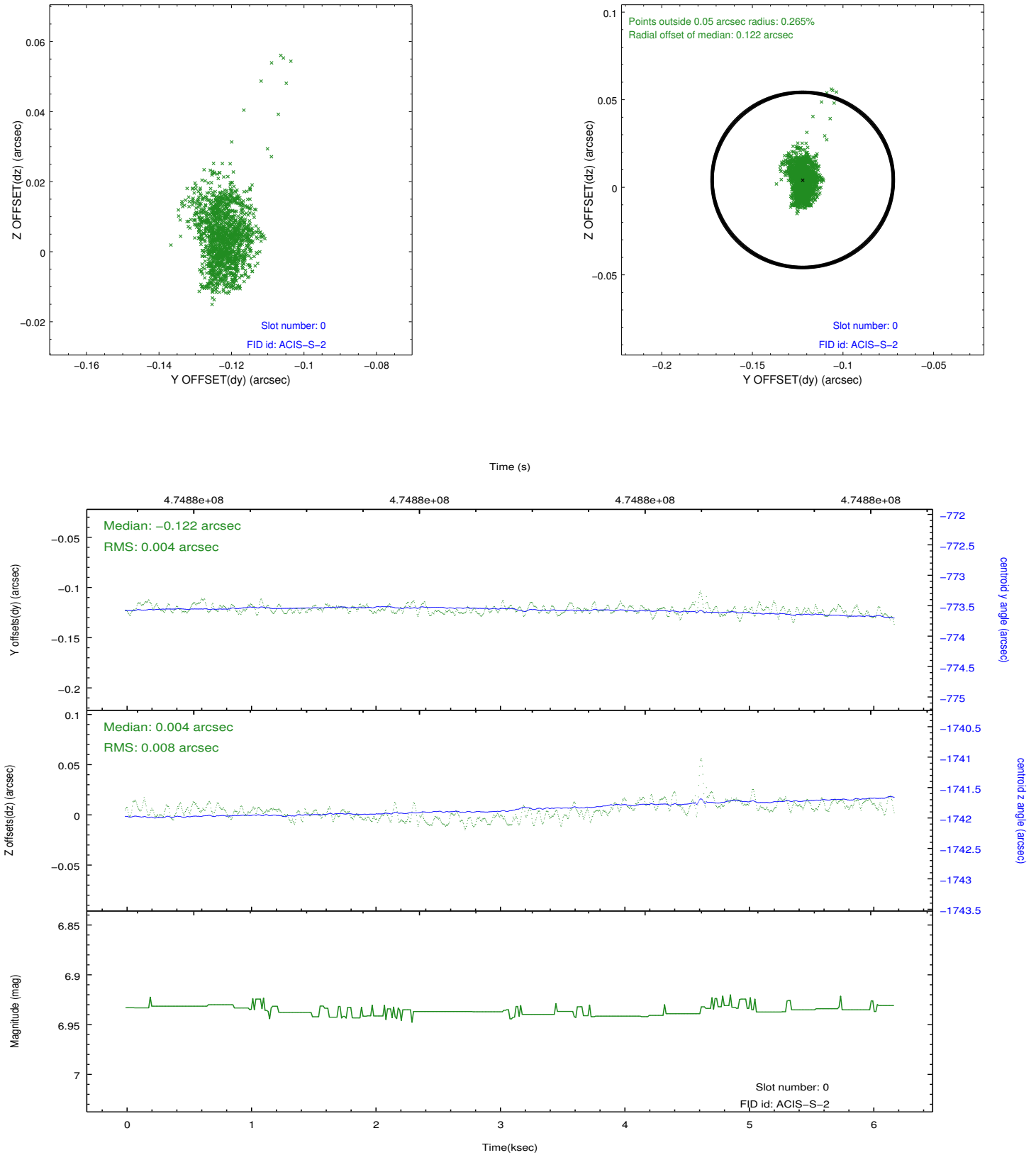


Time (s)

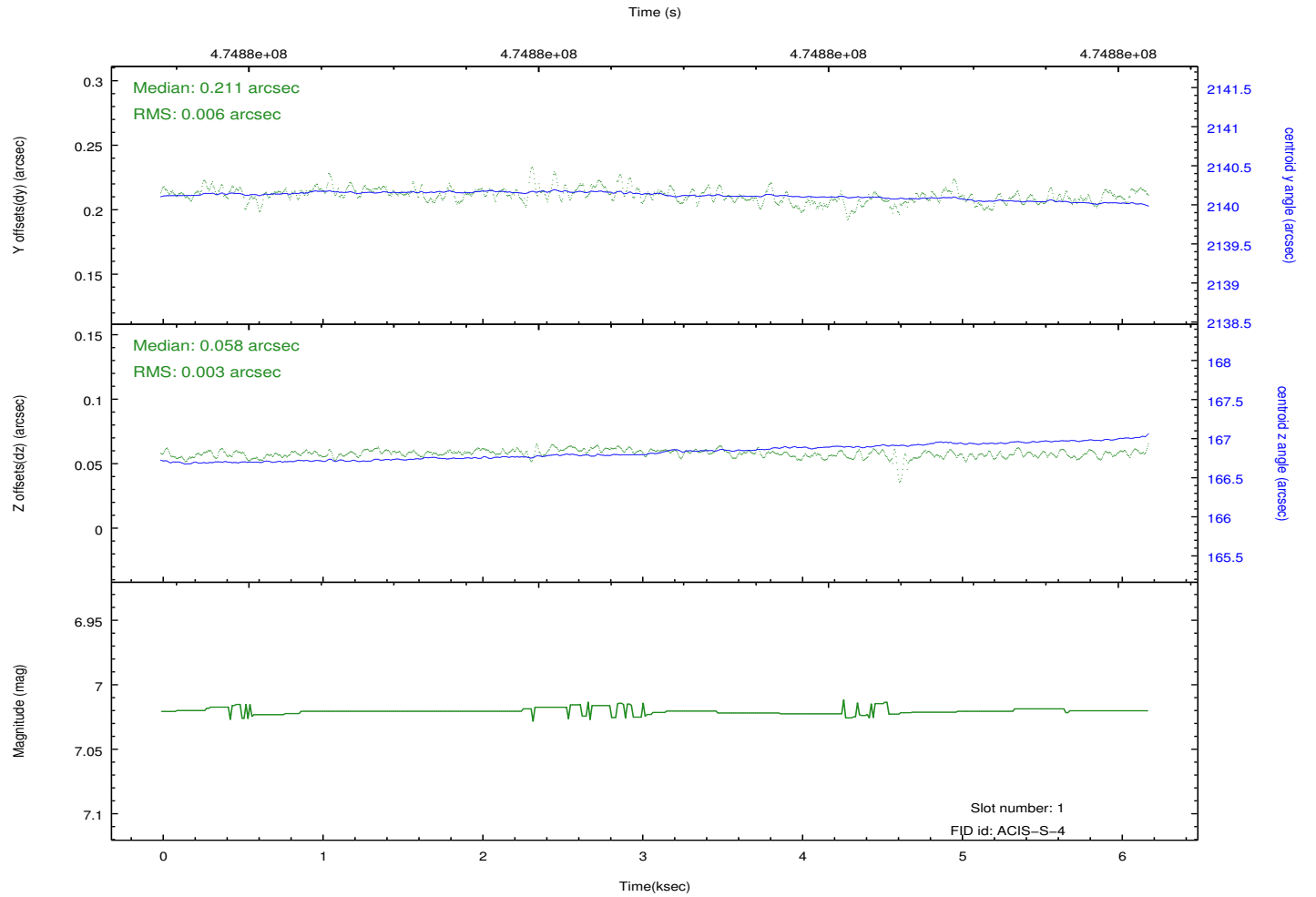
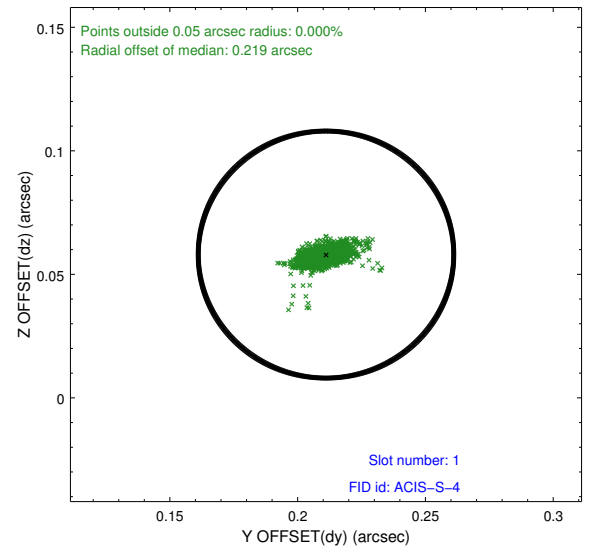
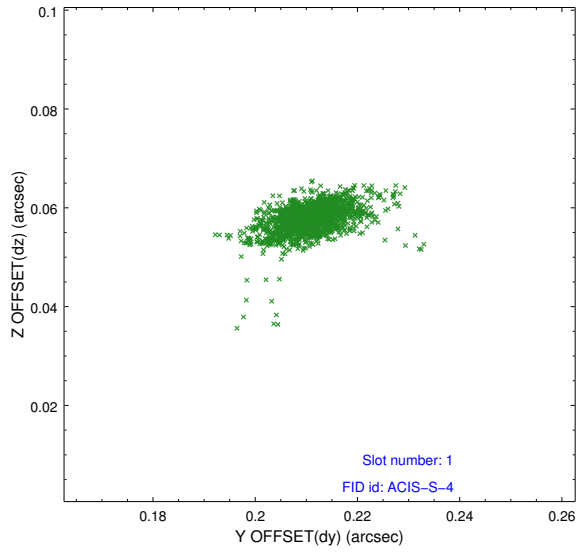


2.5 FID Slots

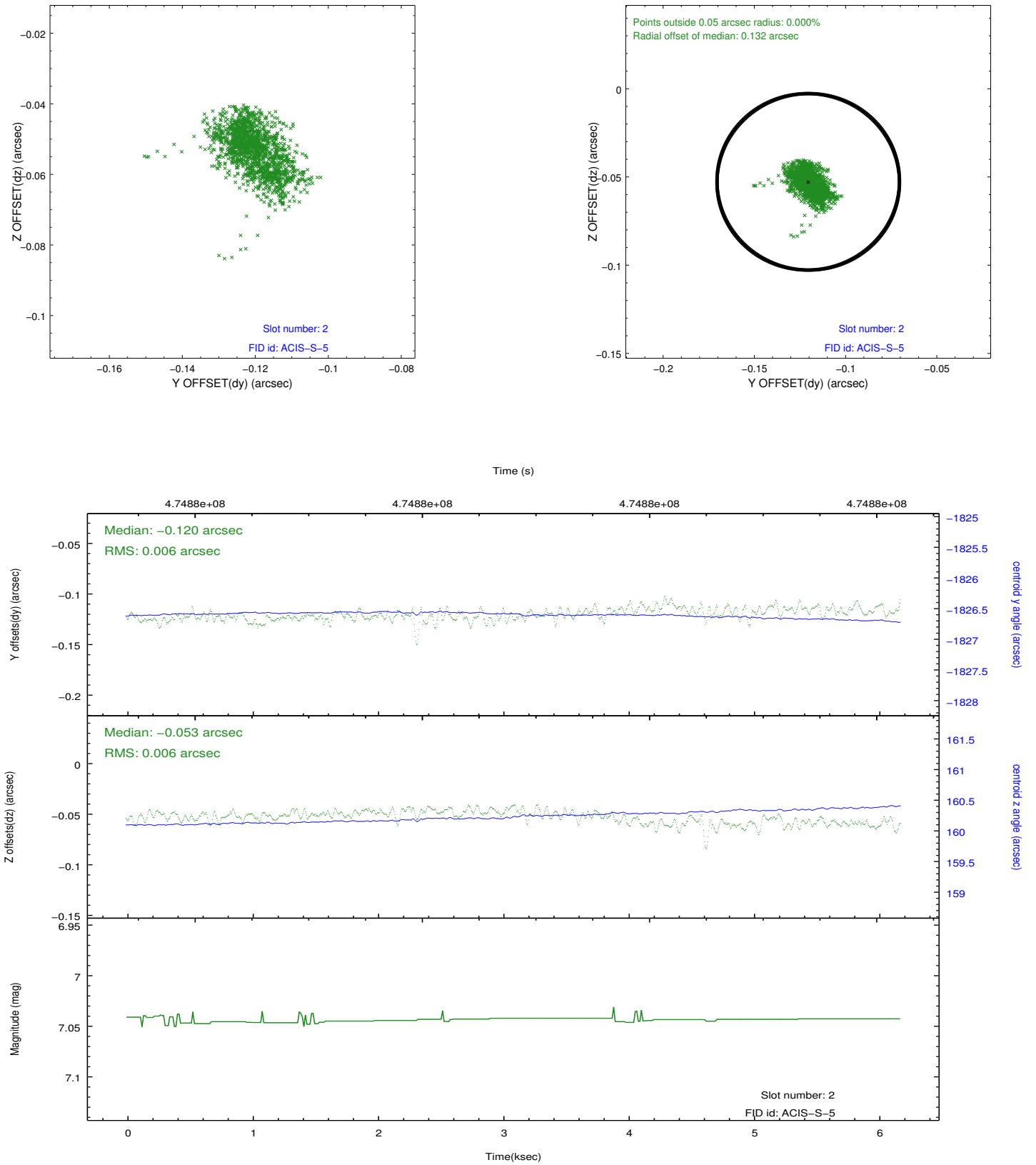
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0667000466585

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.