

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16048 - L2 Version 3
Chandra X-Ray Center

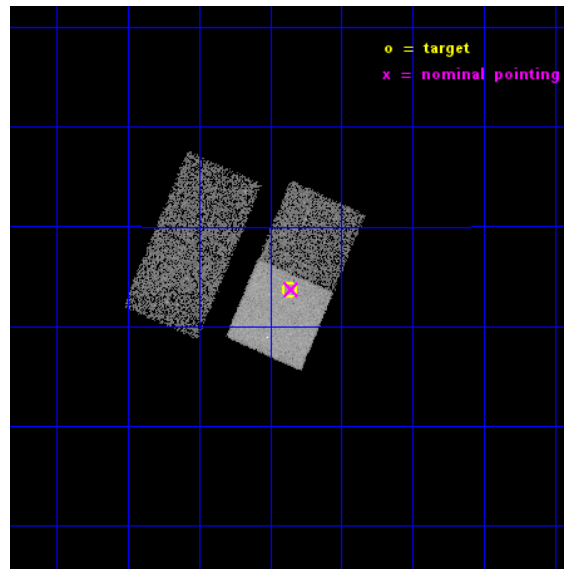
L2 Processing Date : Dec 11 2014

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1 Front

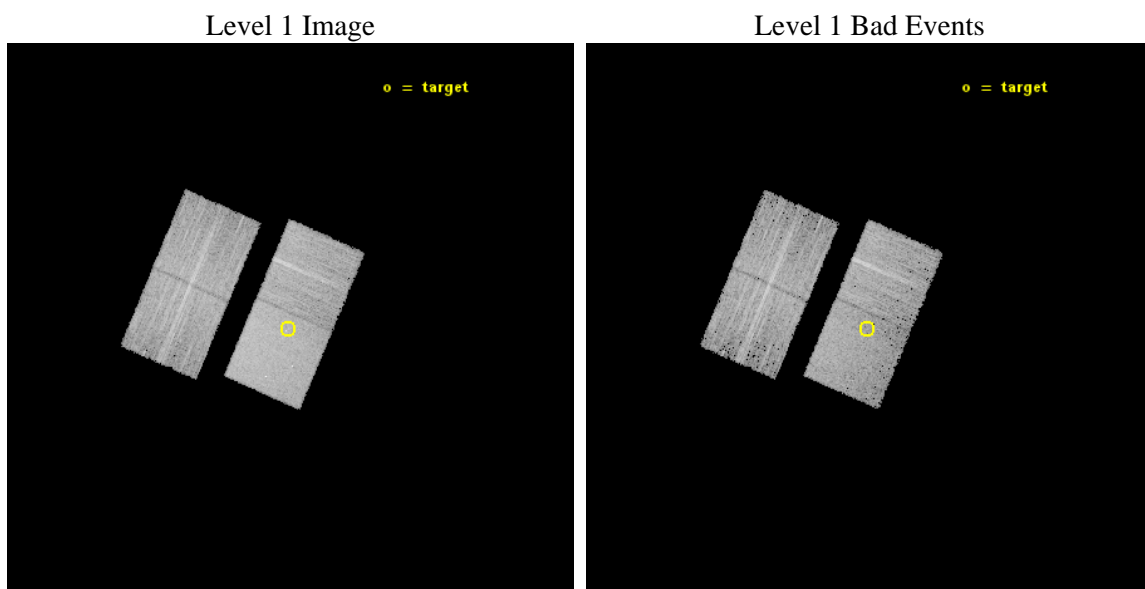
seq_num	702942	Sequence number
obs_id	16048	Observation id
title	Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3C44	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.840833	Observer's specified target RA [deg]
dec_targ	6.394667	Observer's specified target Dec [deg]
ra_nom	22.837846496743	Nominal RA [deg]
dec_nom	6.3951207286036	Nominal Dec [deg]
roll_nom	113.40301072705	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12077.600092888	Sum of GTIs [s]
livetime	11919.797356274	Livetime [s]
ontime2	12077.600092888	Sum of GTIs [s]
ontime3	12074.459102631	Sum of GTIs [s]
ontime6	12077.600092888	Sum of GTIs [s]
ontime7	12077.600092888	Sum of GTIs [s]
l2events	53057	Number of level 2 events



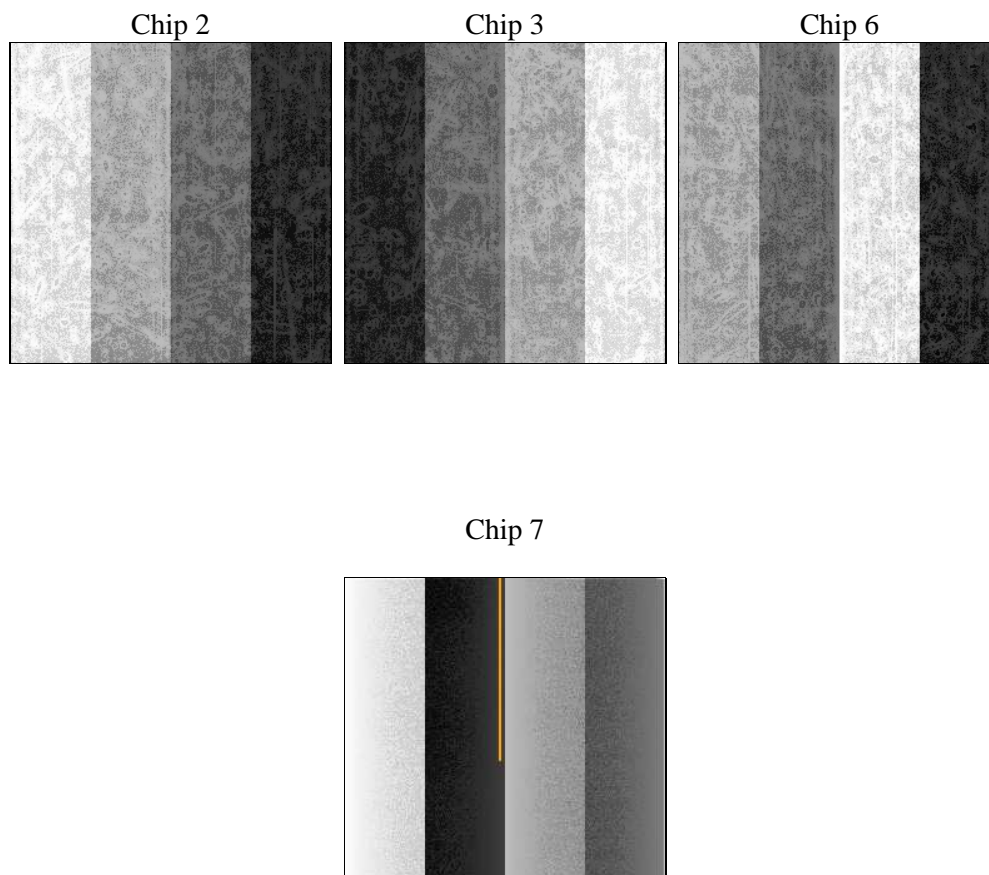
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	12077.600092888	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	12077.600092888	Sum of GTIs [s]
date	2014-12-12T04:24:46	Date and time of file creation	ontime3	12074.459102631	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	12077.600092888	Sum of GTIs [s]
			ontime7	12077.600092888	Sum of GTIs [s]
			l1events	259938	Number of level 1 events

2.1.4 Events

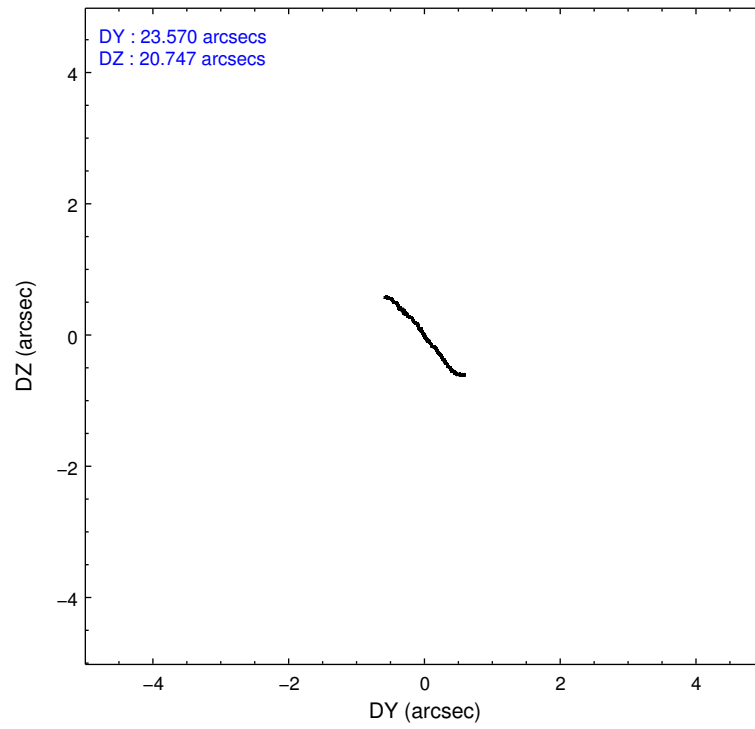
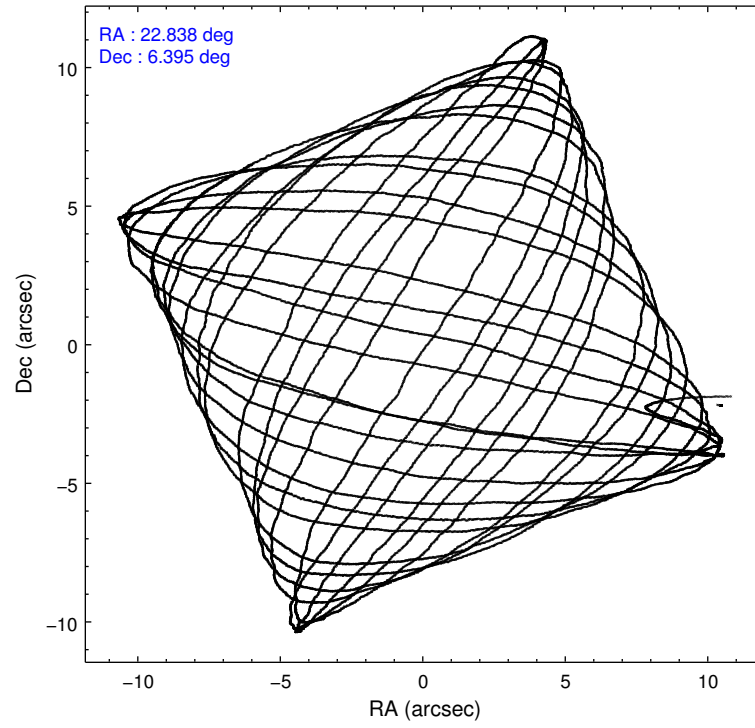
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	57747	58806	61502	81883
rejected events	50893	52282	54134	45939
rejected %	88%	88%	88%	56%

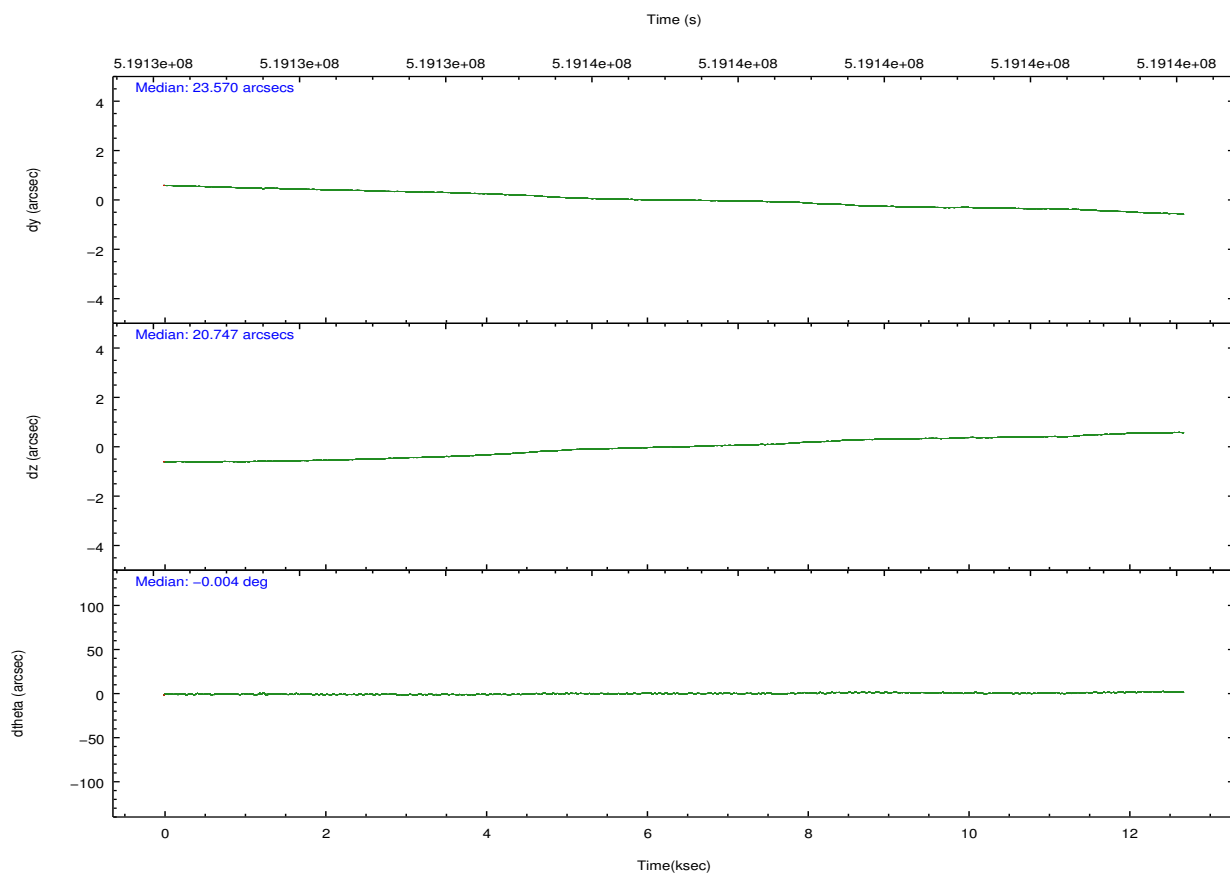
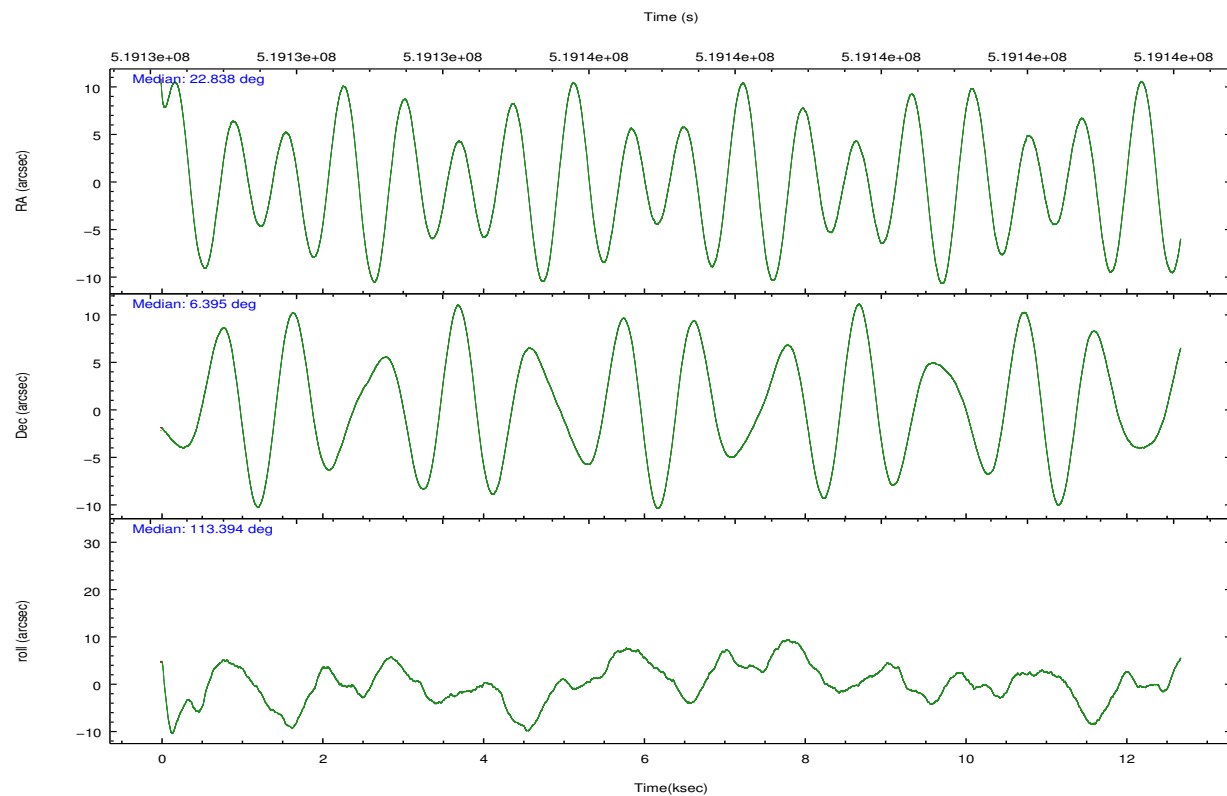
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2441	2256	2432	3211
	4%	3%	3%	3%
grade 1 events	28	27	32	92
	0%	0%	0%	0%
grade 2 events	1699	1510	1771	7445
	2%	2%	2%	9%
grade 3 events	690	697	723	2979
	1%	1%	1%	3%
grade 4 events	672	698	716	2997
	1%	1%	1%	3%
grade 5 events	2507	3123	3205	8341
	4%	5%	5%	10%
grade 6 events	1354	1366	1728	19323
	2%	2%	2%	23%
grade 7 events	48356	49129	50895	37495
	83%	83%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	22.860134	22.83784649674305	CCD I2 on	O1	Y
[deg] Pointing Dec	6.379151	6.395120728603626	CCD I3 on	O2	Y
[deg] Pointing Roll	113.243898	113.4030107270485	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	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	N	N
[s] Observation start time (MET)	519131453.184000	519129660.71459	CCD S5 on	N	N
Observation start date	2014-06-14T11:09:46	2014-06-14T10:41:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	519143453.184000	519144401.75291	On-chip summing requested	N	N
Observation end date	2014-06-14T14:29:46	2014-06-14T14:46:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



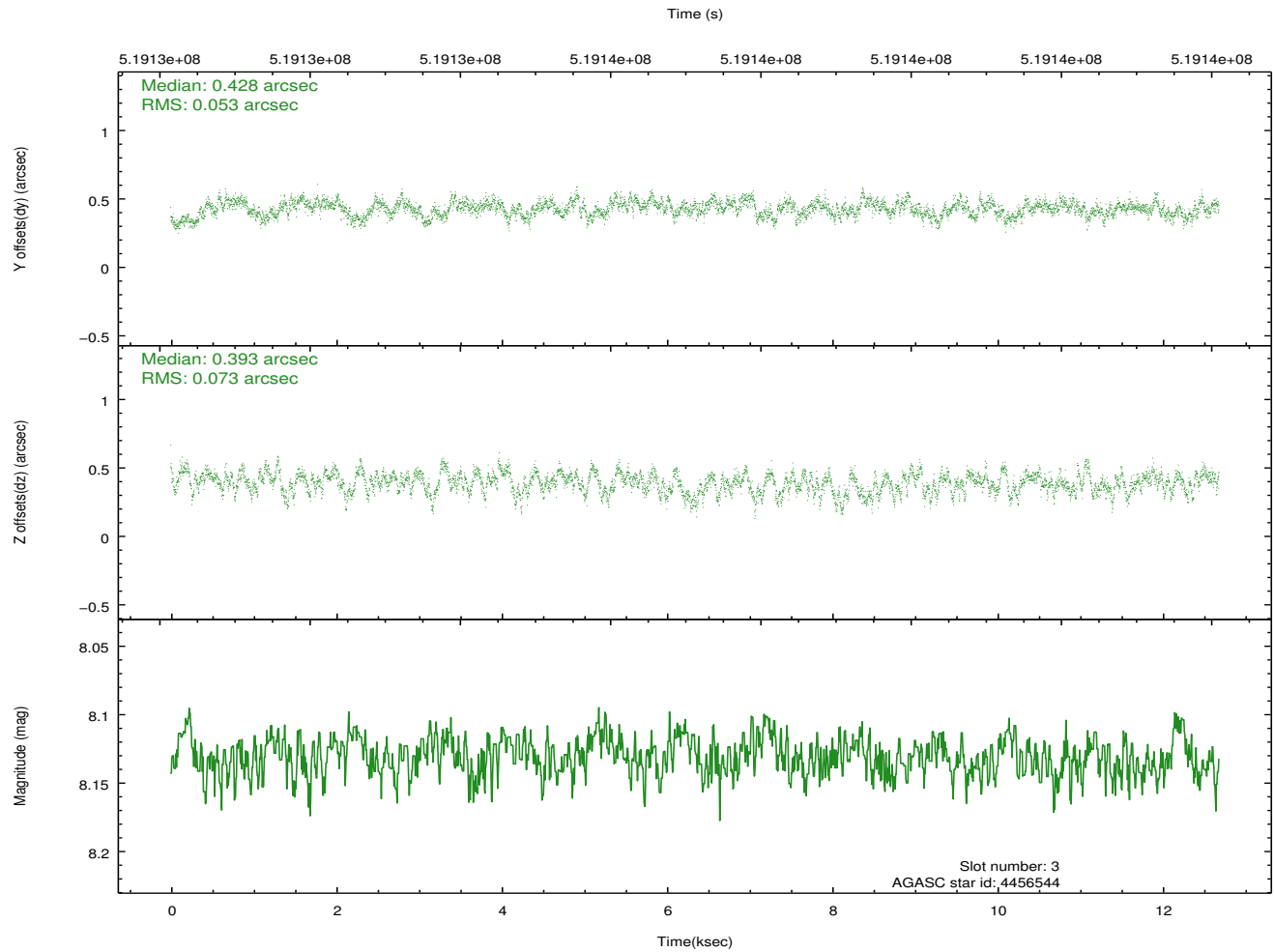
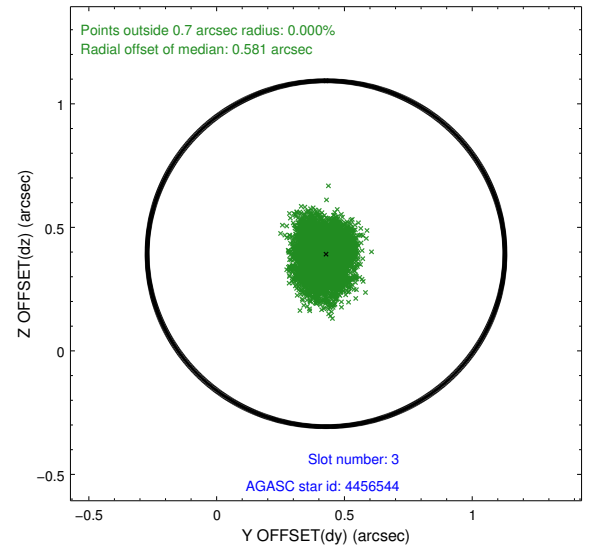
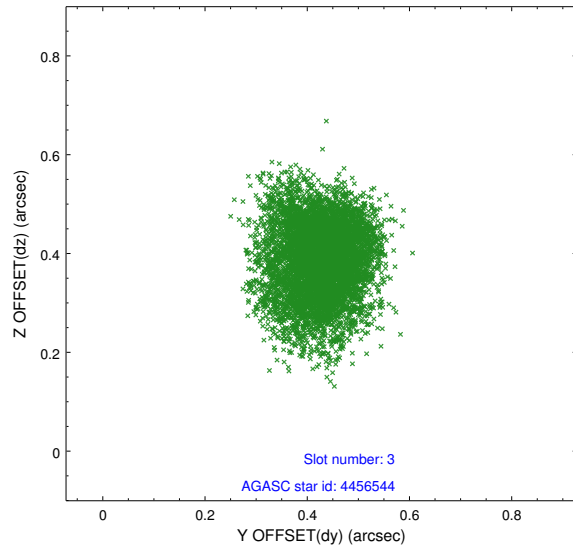


Slot Statistics

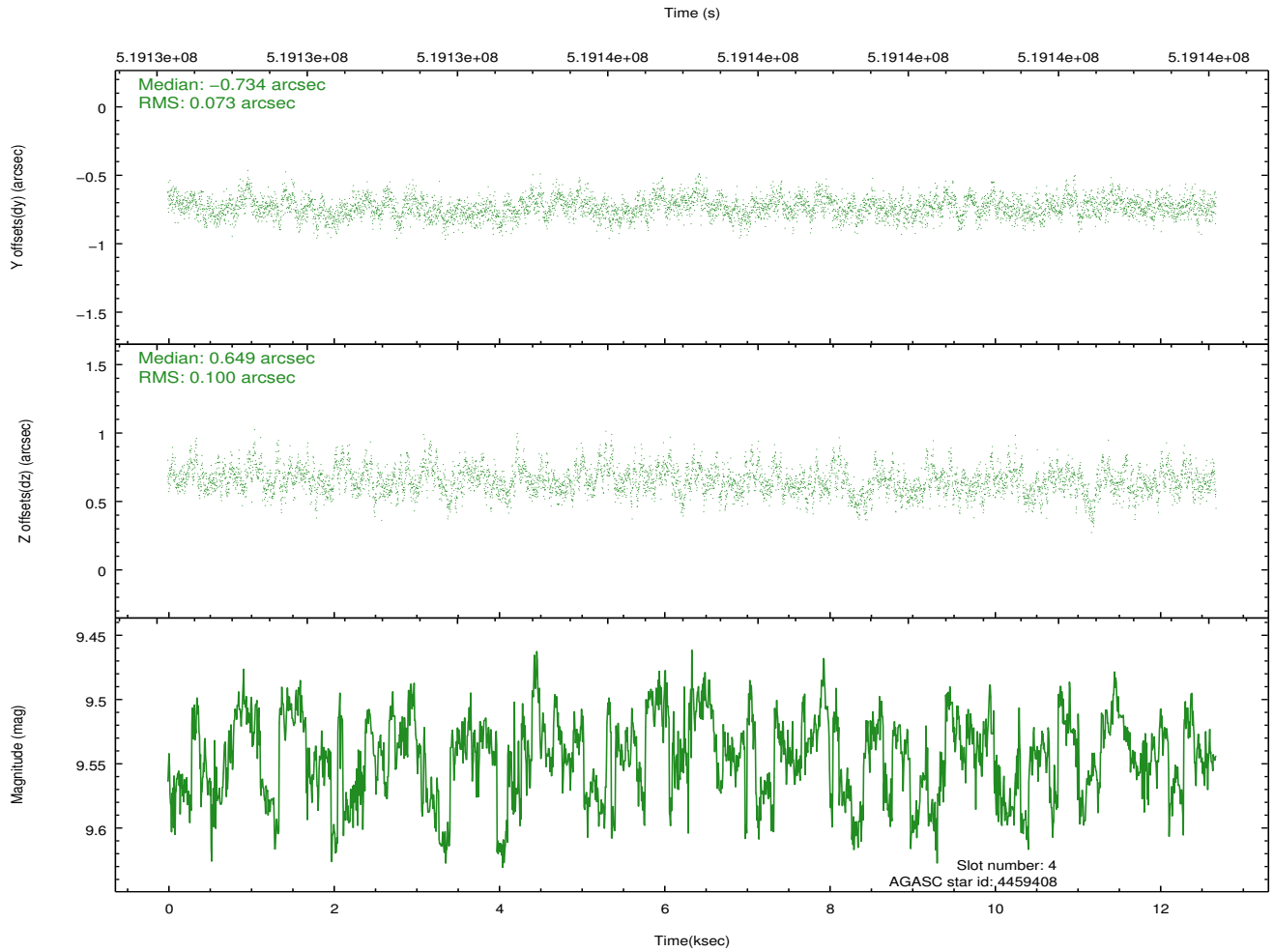
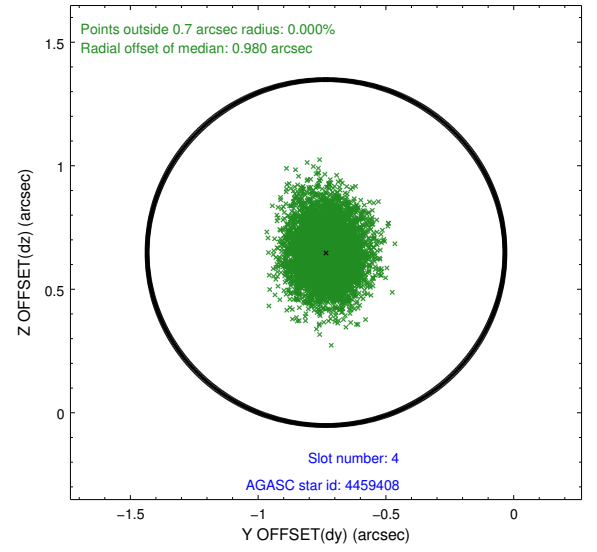
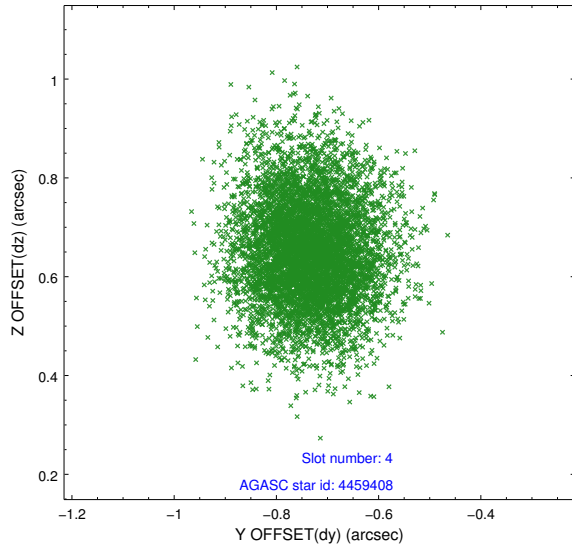
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	3094	-0.159	-0.015	0.024	0.032	0.000000	0.000000	-776.94	-1742.26
1	FID		ACIS-S-4	7.07	3094	0.351	0.080	0.024	0.040	0.000000	0.000000	2136.66	165.93
2	FID		ACIS-S-5	7.09	3094	-0.221	-0.058	0.015	0.021	0.000000	0.000000	-1829.36	159.88
3	GUIDE	used	4456544	8.13	6188	0.428	0.393	0.096	0.156	23.386375	6.566647	-120.68	-1995.36
4	GUIDE	used	4459408	9.54	6183	-0.734	0.649	0.130	0.219	23.280778	6.666312	356.63	-1789.52
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	4464936	8.16	6186	0.250	-0.235	0.093	0.154	22.709098	5.973549	-1128.15	1072.69
7	GUIDE	used	3539120	10.00	6006	0.053	-0.827	0.170	0.272	22.306227	5.986140	-516.81	2379.92

2.4 Star Slots

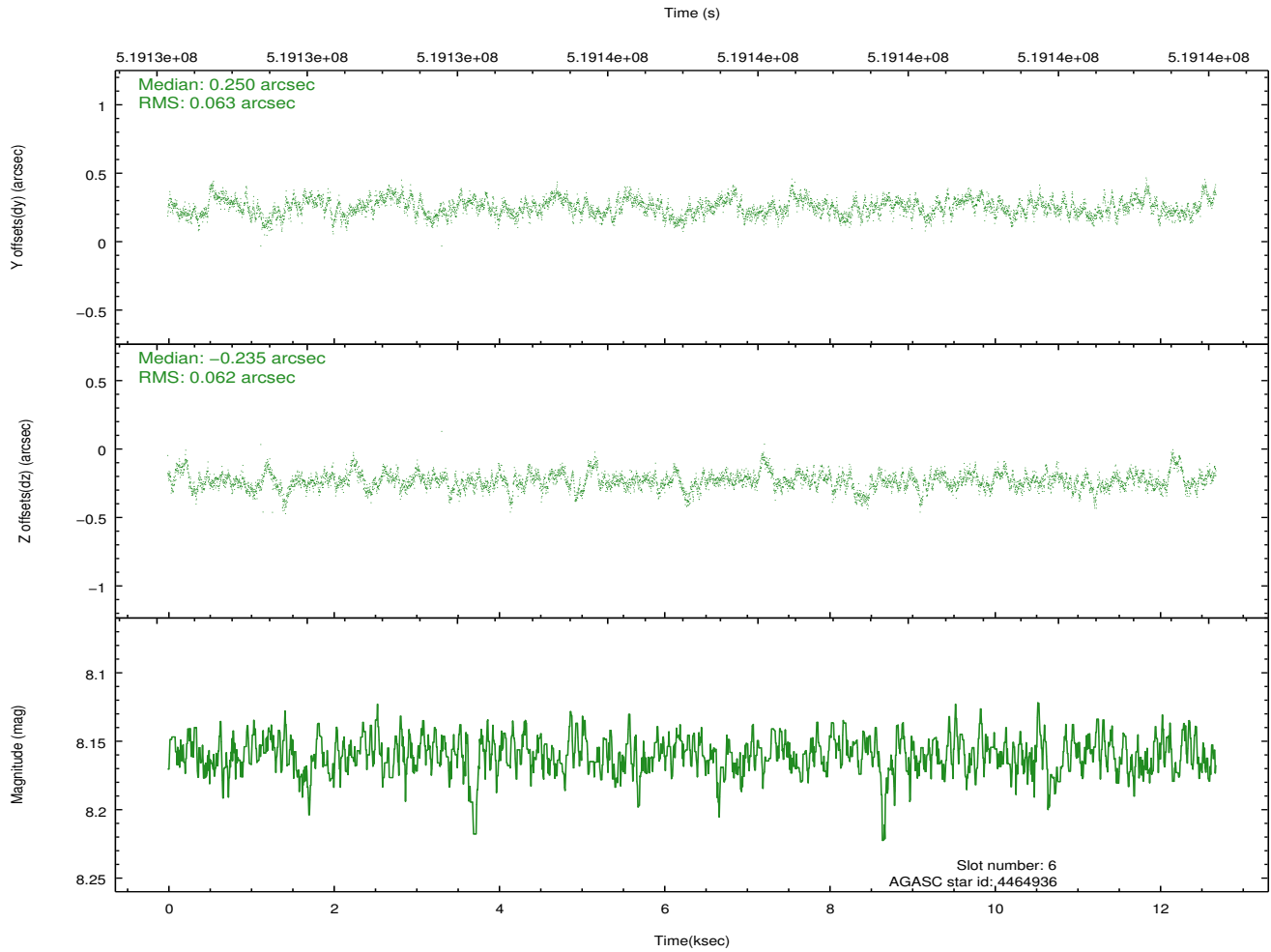
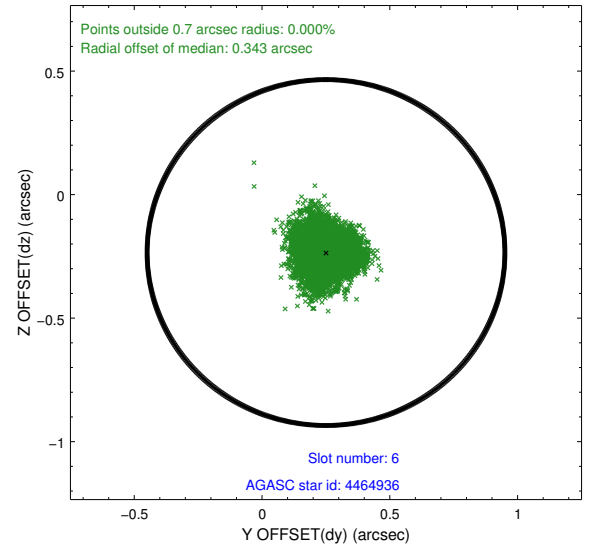
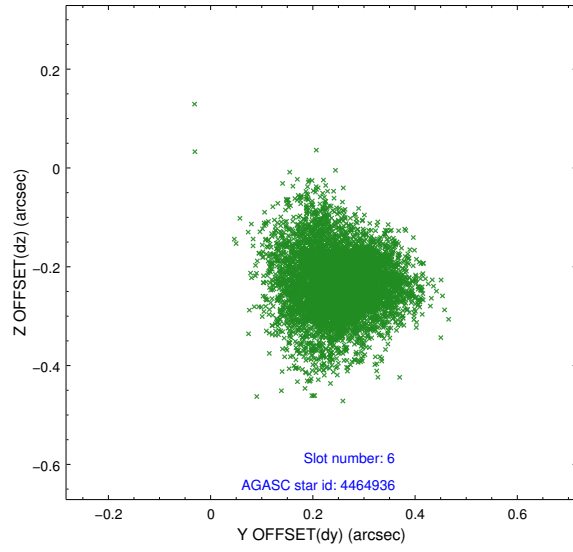
2.4.1 Slot 3



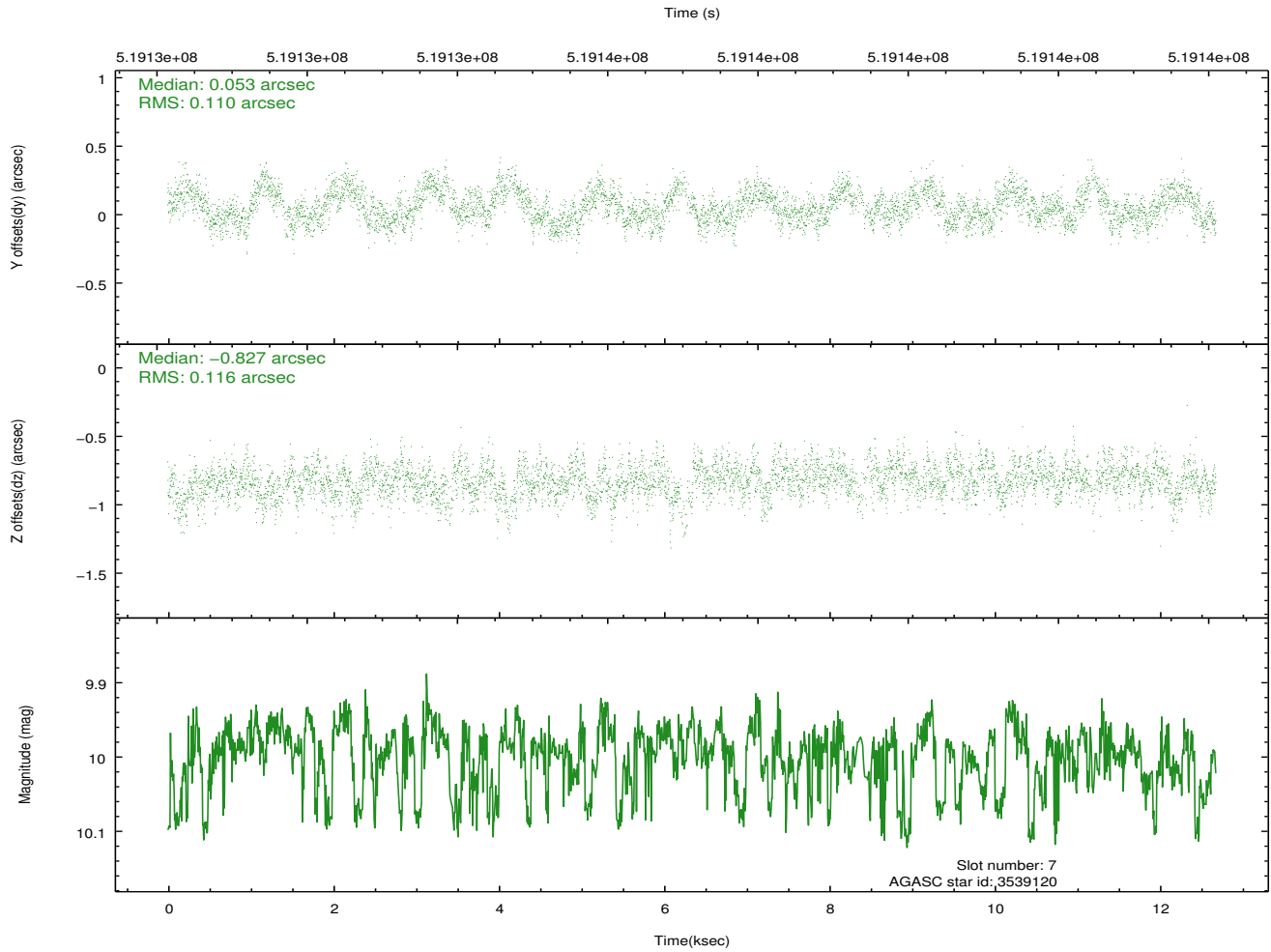
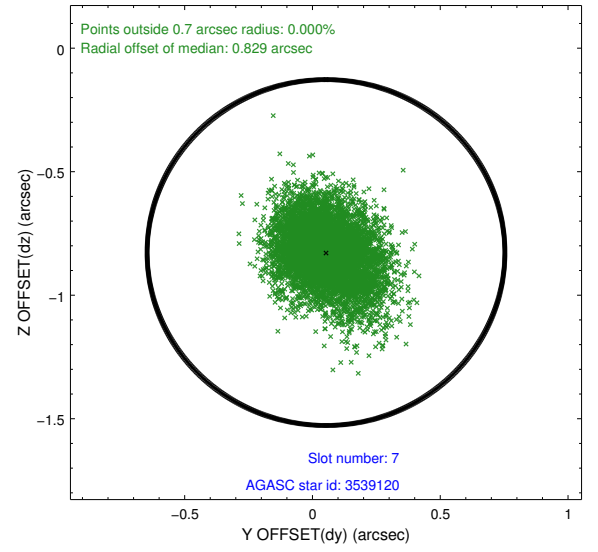
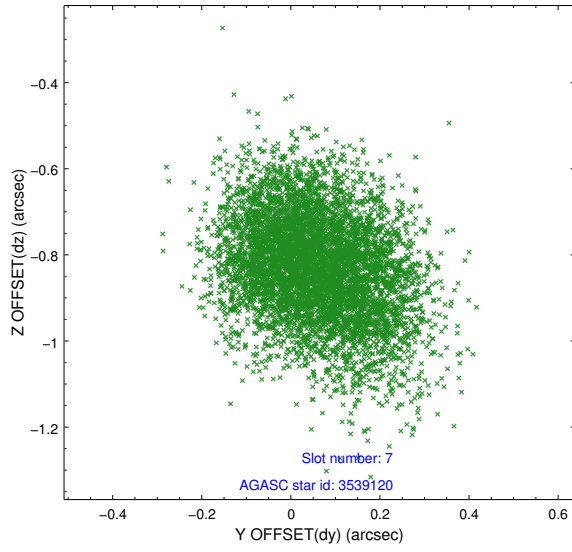
2.4.2 Slot 4



2.4.3 Slot 6

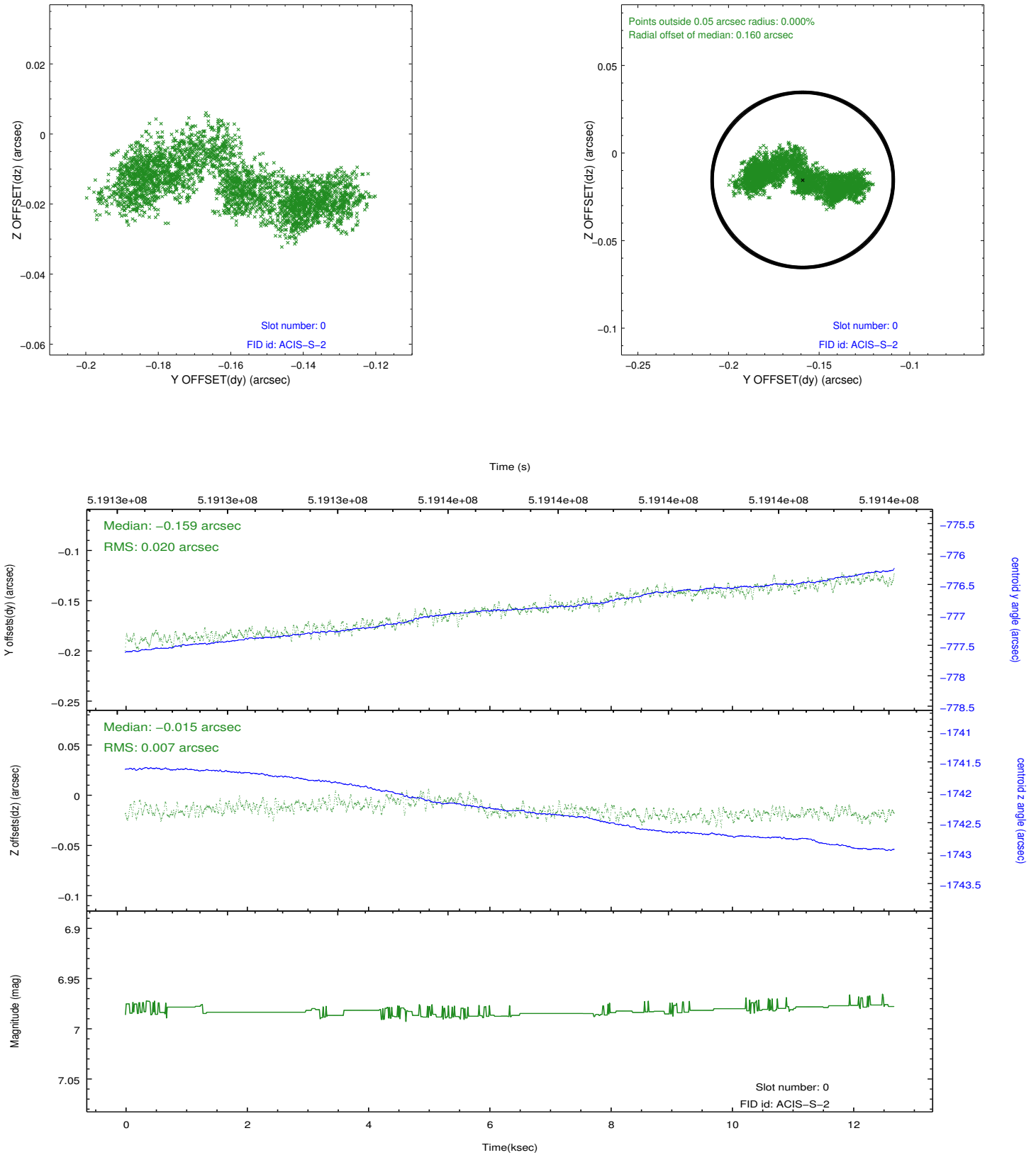


2.4.4 Slot 7

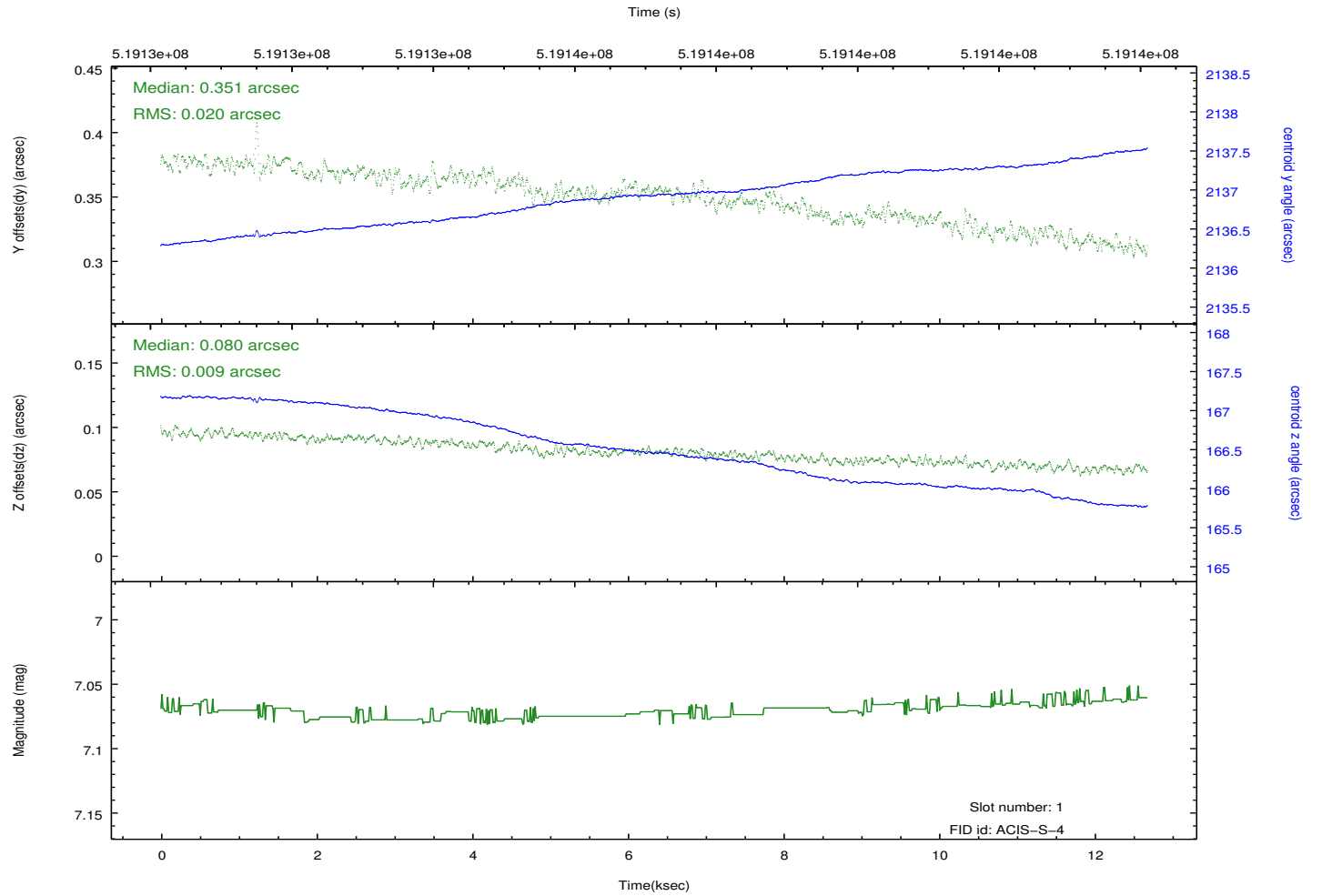
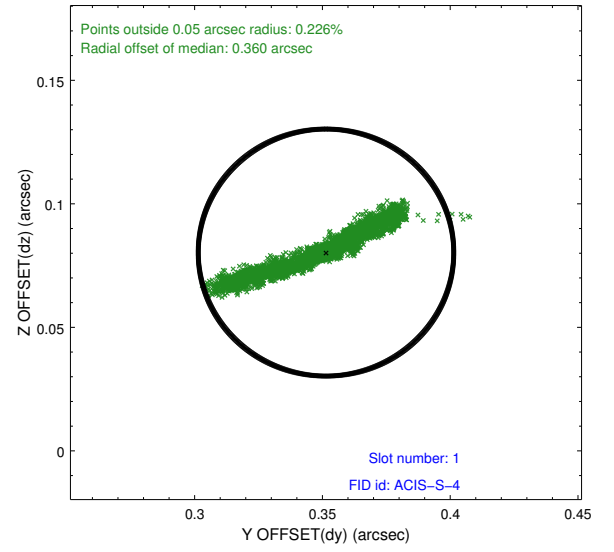
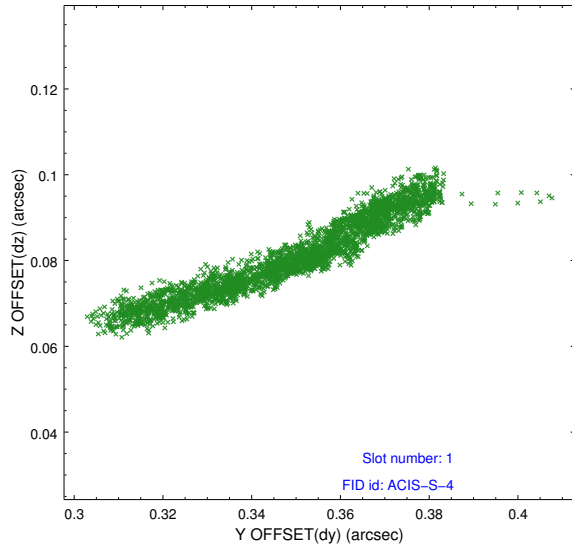


2.5 FID Slots

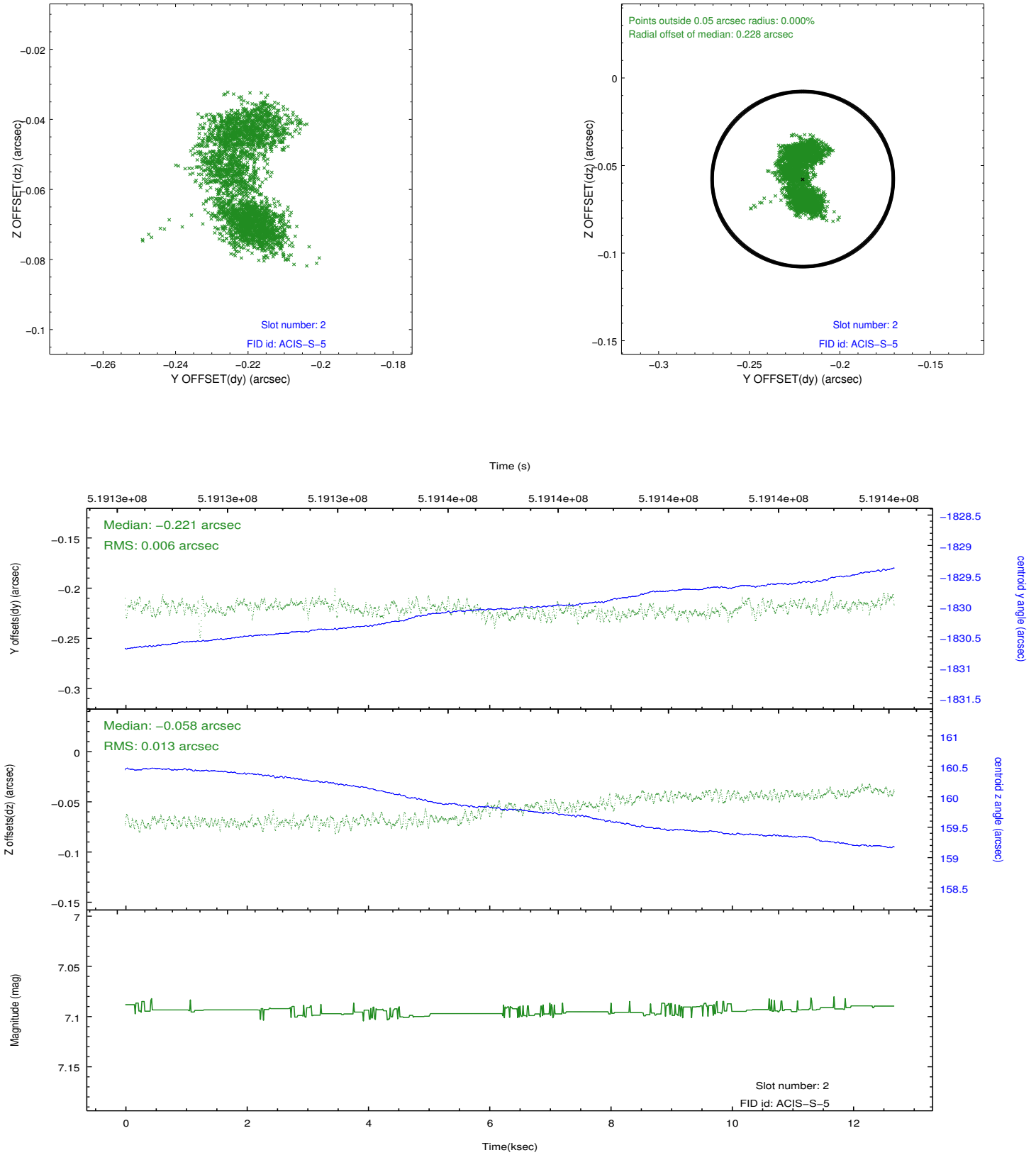
2.5.1 Slot 0



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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.077600092888

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

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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.