

Epiqa RapidArc Commissioning Tests

- for 444 , energy 6 MV, equipped with Millennium 120 MLC

Pre-requisite tests:

Test 0.1: dMLC Dosimetry

Acquisition date: 2009/03/09

Image name	Gantry angle [deg]	Deviation from ref value [%]
RI.RA_test_Dosimetry 1-1_1_.dcm	180	0.614
RI.RA_test_Dosimetry 2-2_1_.dcm	90	-0.219
RI.RA_test_Dosimetry 3-3_1_.dcm	0	-0.203
RI.RA_test_Dosimetry 4-4_1_.dcm	270	-0.192

Reference average value: 1169.087 a 4.788

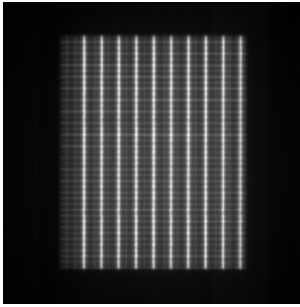
Test results are: Acceptable
 Not acceptable

Comment:

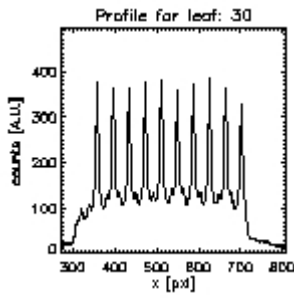
Test 0.2: Picket Fence test vs. gantry angle

Acquisition date: 2009/03/09

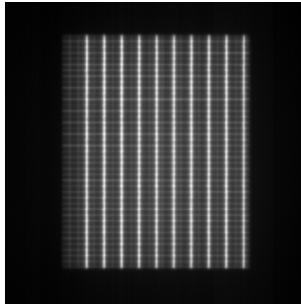
Gantry angle [deg]: 0



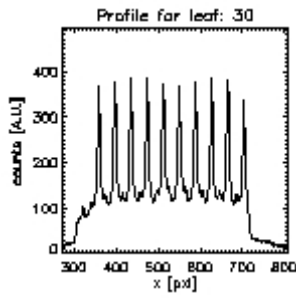
RI.RA_test_PF Stat 0-3_1_21.dcm



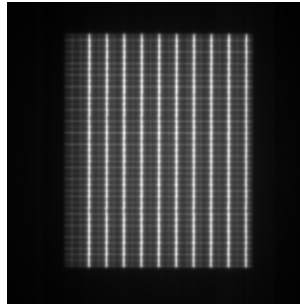
Gantry angle [deg]: 90



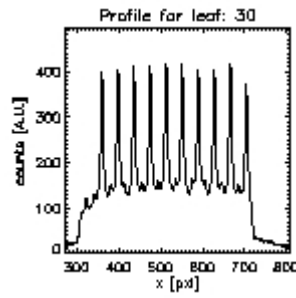
RI.RA_test_PF Stat 90-2_1_2.dcm



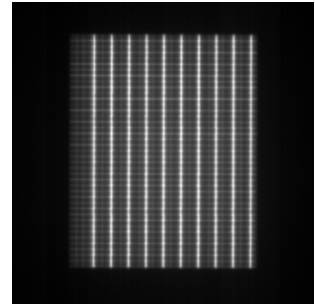
Gantry angle [deg]: 180



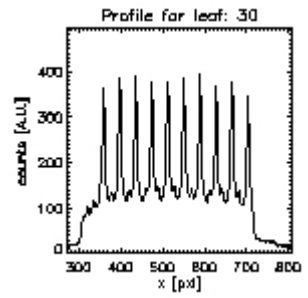
RI.RA_test_PF Stat 180-1_1_.dcm



Gantry angle [deg]: 270



RI.RA_test_PF Stat 270-4_1_.dcm



Test results are:

Excellent

Good

Acceptable

Below acceptability

Not acceptable

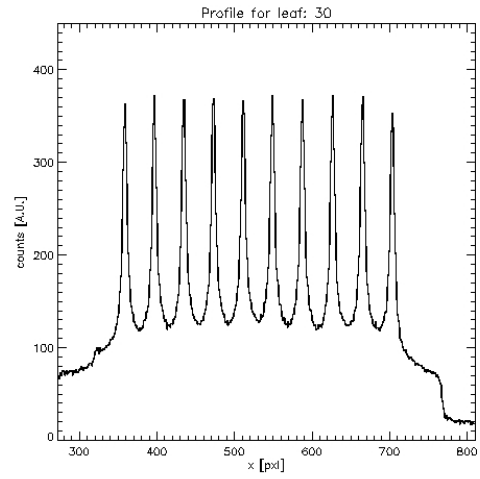
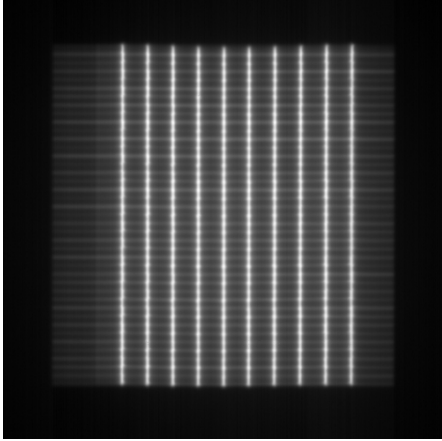
Comment:

RapidArc commissioning tests:

Test 1.1: Picket Fence test during RapidArc

Acquisition date: 2009/03/09

Image name: RI.RA_test_T1.1_PF_RA-0_1_1.dcm



Test results are:

Excellent

Good

Acceptable

Below acceptability

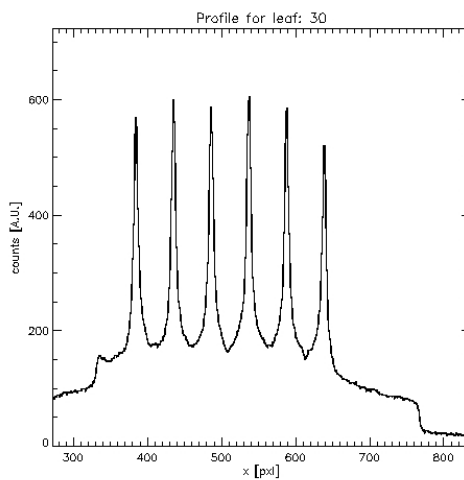
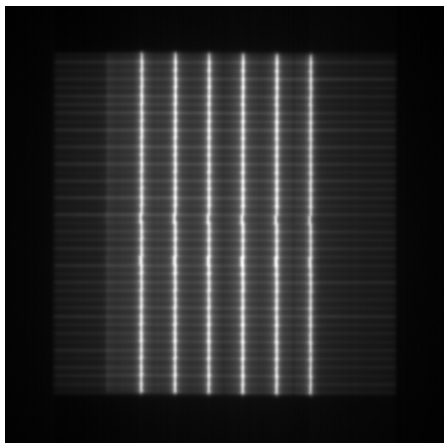
Not acceptable

Comment:

Test 1.2: Picket Fence test during RapidArc with intentional errors

Acquisition date: 2009/03/09

Image name: RI.RA_test_T1.2_PF_RA_error.dcm



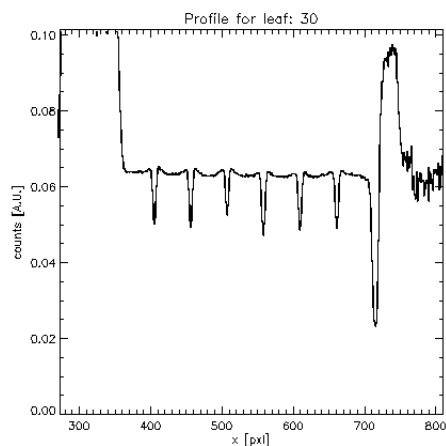
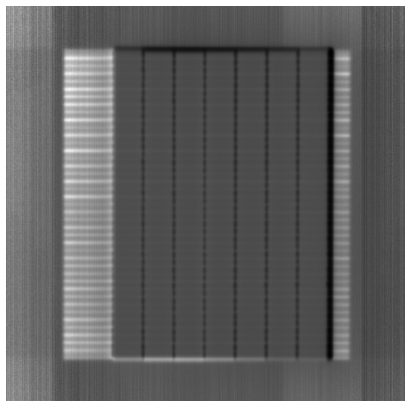
Test results are: Detectable
 Partially detectable
 Not detectable

Comment:

Test 2: Accurate control of Dose Rate and Gantry Speed during RapidArc delivery

Acquisition date: 2009/03/09

Image name: RI.RA_test_T2_DR_GS-0_1_12.dcm



ROI number	Deviation from ref value [%]
1	1.41
2	0.24
3	-0.32
4	-0.45
5	-0.59
6	-0.47
7	0.17

Reference average value: 0.0633 ± 0.0004

Test results are: Acceptable

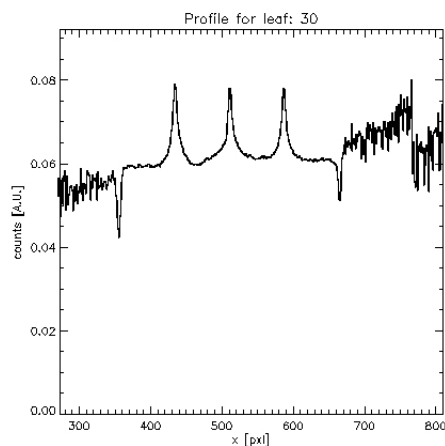
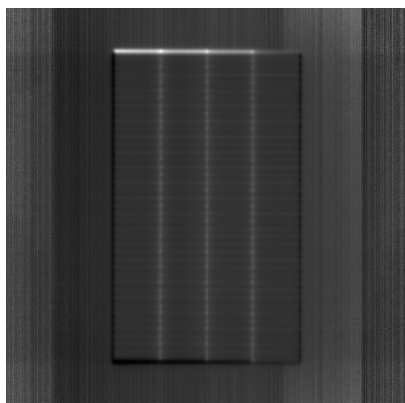
Not acceptable

Comment:

Test 3: Accurate control of Leaf Speed during RapidArc delivery

Acquisition date: 2009/03/09

Image name: RI.RA_test_T3MLCSpeed-0_1_1.dcm



ROI number	Deviation from ref value [%]
1	-1.43
2	-0.27
3	1.26
4	0.44

Reference average value: 0.0599 ± 0.0007

Test results are: Acceptable
 Not acceptable

Comment:

Report comment:

Notes: _____

Date: _____

Physicist: _____