



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0463

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Philips Healthcare

Manufacturer's Technical Representative: Ren Peter

Mailing Address: Veenpluis 4-6, 5684 PC Best, The Netherlands

Telephone: +86 21 2412 8165 Email: Peter.Ren@philips.com

Product Information

Product Name: Ingenuity / Ingenuity Core / Ingenuity Core IMR / Ingenuity Elite / Ingenuity Elite IMR

Product Type: Computed Tomography (CT) medical imaging system.

Product Model Number: See Attachment 1

(List all unique product identification numbers and/or part numbers)

General Description: Multiple component systems for the provision of Computed Tomography medical diagnostic imaging. Seismic certification is limited to system components listed in Attachment 1 for CT functions related to diagnostic assessment of trauma injuries. Seismic enhancements incorporated into the test units shall be incorporated into the certified units.

Mounting Description: See Attachment 1

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (406) 541-EASE (3273) Email: j.roberson@easeco.com

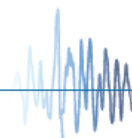
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: May 25, 2019

Title: Principal Engineer Company Name: EASE LLC

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)



OSHPD

Page 1 of 3



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: EASE LLC

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

Supports and Attachments Preapproval

- ☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- ☒ Supports and attachments are not preapproved

Certification Method

- ☒ Testing in accordance with: ☒ ICC-ES AC156
- ☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513

Telephone: (972) 247-9657 Email: brady@etldallas.com



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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = See Attachment 1

S_{DS} (Design spectral response acceleration at short period, g) = $S_{DS} = 2.00$ ($z/h = 1$); $S_{DS} = 2.50$ ($z/h = 0$)

a_p (In-structure equipment or component amplification factor) = See Attachment 1

R_p (Equipment or component response modification factor) = See Attachment 1

Ω_0 (System overstrength factor) = See Attachment 1

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS} = 2.00$); 0 ($S_{DS} = 2.50$)

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog

☒ Other(s) (Please Specify): Attachments 1 & 2; manufacturer documentation

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature: _____

Date: June 19, 2020

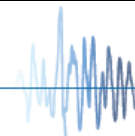
Print Name: Timothy J Piland

Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = See above

z/h = See above

Condition of Approval (if applicable): _____



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 1 OF 4

TABLE 1:

SYSTEM MFR.	Philips Medical Systems Nederland B.V.													
SYSTEM	Ingenuity Ingenuity Core Ingenuity Core IMR	(459801601711 / 459800781191) (459801601671 / 459800760241) (459801601681 / 459800760271)	Ingenuity Elite Ingenuity Elite IMR					(459801601691 / 459800781171) (459801601701 / 459800781161)						
COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀	
		W	D	H										
GANTRIES														
Ingenuity CT including:	459800708861	93.5	37	78.9	4300	Rigid Base	UUT 1603-4	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½	
LH Actuator, Seismic	459800121282													
RH Actuator, Seismic	459800121292													
PATIENT TABLES														
Patient Support, Extended	459800021211	22.7	117.6	41.375	910 ^[2]	Rigid Base	UUT 1603-5	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½	
Patient Support, Bariatric	453567391361	22.7	107.4	42.2 max	890 ^[4]	Rigid Base	UUT 1602-2							
Patient Support, Standard	453567023322	22.7	107.4	42 max.	850	Rigid Base	INT							
Patient Support, iCT Standard ^{[8] [9]}	453567480181	22.7	107.4	42 max.	889 ^[2]	Rigid Base	UUT 1705-2							
CONSOLES														
CRC RACK IMR (Granite) including: ^[3]	459800444991	24.0	35.5	29.9	316	Rigid Base	UUT 1503-A1	1.44 1.125	2.0 2.5	1 0	1	2 ½	2	
CIRS S1 (HP z840)	459800912731													
CIRS S2 (HP z840)	459800914211													
CRC RACK IMR (Granite) including: ^[3]	459800444991	24.0	35.5	29.9	316	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2	
CIRS S1 (HP z840)	459801304961													
CIRS S2 (HP z840)	459801305001													
HOST RACK IMR (Granite) including: ^[3]	459800444981	13.0	35.3	29.9	172	Rigid Base	UUT 1503-A2	1.44 1.125	2.0 2.5	1 0	1	2 ½	2	
Common Host Computer (CRC) (HP z440)	459800918411													
LCC CRC RACK DVI (Granite) including: ^[3]	455012005711	24.0	35.5	29.9	307	Rigid Base	UUT 1503-A3	1.44 1.125	2.0 2.5	1 0	1	2 ½	2	
Common Host Computer (CRC) (HP z440)	459800918411													
CIRS Computer (HP z840)	459800914091													
LCC CRC RACK DVI (Granite) including: ^[3]	455012005711	24.0	35.5	29.9	307	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2	
Common Host Computer (CRC) (HP z440)	459800918411													
CIRS Computer (HP z840)	459801305071													

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 4

TABLE 1:

SYSTEM MFR.	Philips Medical Systems Nederland B.V.													
SYSTEM	Ingenuity Ingenuity Core Ingenuity Core IMR	(459801601711 / 459800781191) (459801601671 / 459800760241) (459801601681 / 459800760271)	Ingenuity Elite Ingenuity Elite IMR						(459801601691 / 459800781171) (459801601701 / 459800781161)					
COMPONENT		PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀
CRC RACK (Avnet) including: ^[7]		459801089011	24.0	35.6	29.9	318	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)		459800918411												
CIRS Computer (HP z840)		459801305071												
CRC RACK (Avnet) including: ^[7] ^[9]		459801089011	24.0	35.6	29.9	318	Rigid Base	UUT 1713-1	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)		459801304931												
CIRS Computer (HP z840)		459801305071												
MISC														
CT Box Assembly (Vexos) ^[6]		453567027195	15.8	4	3.5	4	CTA	UUT 1603-6	1.44	2.0	1	1	2 ½	2
CT Box Assembly (Grayhill) ^[6]		459800484611	15.8	4	3.5	4	CTA	UUT 1707-4	1.125	2.5	0			
MOUNT	<u>Floor (Rigid Base) Mount:</u> free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. <u>Countertop Anchored:</u> unit is anchored to a rigid fixed support such (e.g. built-in countertop, desktop, et. al.).													
NOTES	1. BASIS: • UUT#: unit matching these characteristics was tested. • INT (Interpolate/Extrapolate): configuration not tested; seismic certification is established through evaluation of testing of similar models in the product line. 2. Patient table weight does not include 450 LB patient load present during testing. 3. Requires use of Philips Healthcare Gen 5.X Console Seismic Kit (Part No. 4598 008 81561 or equivalent.) 4. Patient table weight does not include 500 LB patient load present during testing. 5. NOT USED 6. Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent). 7. Requires use of Philips Healthcare CRC Rack Seismic package KIT (Part No. 4598 013 57921 or equivalent.) 8. Requires use of Philips Healthcare Gantry/Couch Anchor Bracket Seismic Kit (Part No. 4598 011 39791 or equivalent). 9. Model is included only for purpose of interpolation and not used with the CT system(s) identified in this table.													

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 3 OF 4

TABLE 2:

SYSTEM MFR.	Philips Medical Systems Nederland B.V.												
SYSTEM	Ingenuity (459801569951) Ingenuity Core (459801569931) Ingenuity Core IMR (459801569941)	Ingenuity Elite (459801560171) Ingenuity Elite IMR (459801560181)											
COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀
		W	D	H									
GANTRIES													
Ingenuity CT including:	459801539071	93.5	37	78.9	4300	Rigid Base	SAME AS UUT 1603-4	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
LH Actuator, Seismic	459800121282												
RH Actuator, Seismic	459800121292												
PATIENT TABLES													
Patient Support, Extended	459800021213	22.7	117.6	41.375	910 ^[2]	Rigid Base	SAME AS UUT 1603-5	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
Patient Support, Bariatric	453567391363	22.7	107.4	42.2 max	890 ^[3]	Rigid Base	SAME AS UUT 1602-2						
Patient Support, Standard	453567023325	22.7	107.4	42 max.	850	Rigid Base	INT						
Patient Support, iCT Standard ^{[8] [9]}	453567480181	22.7	107.4	42 max.	889 ^[2]	Rigid Base	UUT 1705-2						
CONSOLES													
LCC CRC Rack (Avnet) ^[4]	459801540281	24	35	30	309	Rigid Base	UUT 1806-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CT Gen5.3 iDose CIRS, Z8 + ACQ (HP Z8)	459801493311												
Host z4, CAN, Adaptor (HP Z4)	459801493301												
CRC RACK IMR (Avnet) ^[5]	459801286611	24	35	30	340	Rigid Base	UUT 1806-4	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HP Z8)	459801626701												
CT Gen 5.3 IMR CIRS S2, Z8 (HP Z8)	459801626691												
HOST RACK IMR (Avnet) ^[6]	459801287961	13	35	30	189	Rigid Base	UUT 1806-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Host z4, CAN, Adaptor (HP Z4)	459801493301												
MISC													
CT Box Assembly (Grayhill) ^[7]	459801478151	15.8	4	3.5	4	CTA	SAME AS UUT 1707-4	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
MOUNT	Floor (Rigid Base): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. Countertop Anchored: unit is anchored to a rigid fixed support (e.g. built-in countertop, desktop, floor, et. al.).												

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 4 OF 4

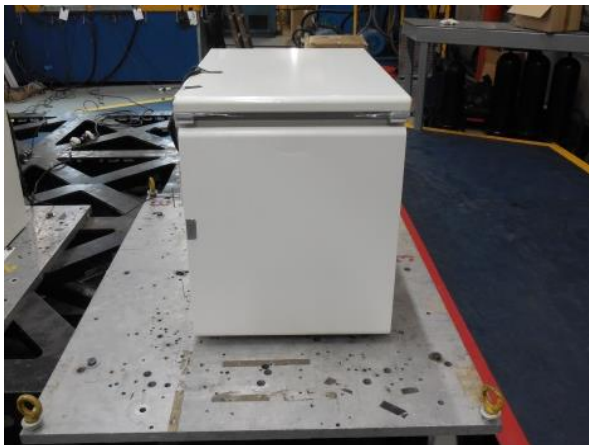
TABLE 2:

SYSTEM MFR.	Philips Medical Systems Nederland B.V.													
SYSTEM	Ingenuity	(459801569951)	Ingenuity Elite						(459801560171)					
	Ingenuity Core	(459801569931)	Ingenuity Elite IMR						(459801560181)					
	Ingenuity Core IMR	(459801569941)												
COMPONENT		PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀
			W	D	H									
NOTES	1. BASIS: • UUT#: unit matching these characteristics was tested. • SAME: component is identical to tested unit, except for possible variations in part number, color, or software. • INT (Interpolate/Extrapolate): configuration not tested; seismic certification is established through evaluation of testing of similar models in the product line. 2. Patient table weight does not include 450 LB patient load present during testing. 3. Patient table weight does not include 500 LB patient load present during testing. 4. LCC CRC Rack requires use of Philips Seismic Kit (Part No. 459801561661 or equivalent). 5. CRC RACK IMR requires use of Philips Seismic Kit (Part No. 459801561811 or equivalent). 6. HOST RACK IMR requires use of Philips Seismic Kit (Part No. 459801561671 or equivalent). 7. Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent). 8. Requires use of Philips Healthcare Gantry/Couch Anchor Bracket Seismic Kit (Part No. 4598 011 39791 or equivalent). 9. Model is included only for purpose of interpolation and not used with the CT system(s) identified in this table.													

DATE: 06/19/2020

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 1 OF 7

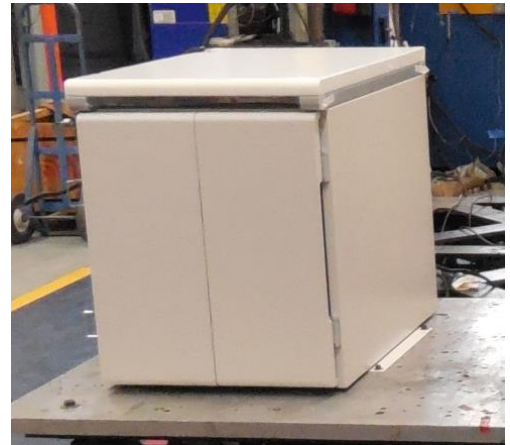
UUT 1503-A1 CRC RACK IMR								
MANUFACTURER:		Philips Medical Systems (Cleveland), Inc.						
IDENTIFICATION:		Rack	CIRS S1	CIRS S2				
		459800444991 Rev C	459800912731	459800914211				
DESCRIPTION:		Component common to multiple Philips CT systems CRC RACK IMR (Granite) including: - CIRS S1 (CIRS, HP z840 E5-2630v3 4Drv, SN5BP, ACQ4e) - CIRS S2 (CIRS, HP z840 E5-2630v3 No Raid, SN5BP) - Gen 5.X Console Seismic Kit (Part No. 4598 008 81561) The Test Specimen was fully populated throughout test.						
MOUNTING:		Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
								
PROPERTIES:								
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis		
24.0	35.5	29.9	316	8.1	6.6	9.2		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2013	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								

UUT 1503-A2 Host Rack - IMR								
MANUFACTURER:		Philips Medical Systems (Cleveland), Inc.						
IDENTIFICATION:		Rack	Common Host					
		459800444981 Rev D	459800918411					
DESCRIPTION:		Component common to multiple Philips CT systems Host Rack - IMR (Granite) including: - Common Host Computer (CRC) (Host HP z440, CAN, Adaptor) - Gen 5.X Console Seismic Kit (Part No. 4598 008 81561) The Test Specimen was fully populated throughout test.						
MOUNTING:		Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
								
PROPERTIES:								
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis		
13.0	35.3	29.9	172	8.3	3.9	25.1		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2013	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 7

UUT 1503-A3 LCC CRC RACK DVI								
MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.							
IDENTIFICATION:	<table border="1"><thead><tr><th>Rack</th><th>CRC</th><th>CIRS</th></tr></thead><tbody><tr><td>455012005711 Rev B</td><td>459800918411</td><td>459800914091</td></tr></tbody></table>	Rack	CRC	CIRS	455012005711 Rev B	459800918411	459800914091	
Rack	CRC	CIRS						
455012005711 Rev B	459800918411	459800914091						
DESCRIPTION:	Component common to multiple Philips CT systems LCC CRC RACK DVI (Granite) including: • Common Host Computer (CRC) (Host, HP z440, CAN, Adaptor) • CIRS Computer (CIRS, HP z840 E5-2620v3 4Drv, SN5BP, ACQ4e) • Gen 5.X Console Seismic Kit (Part No. 4598 008 81561) The Test Specimen was fully populated throughout test.							
MOUNTING:	Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.							
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
24.0	35.5	29.9		9.4	5.6	20.8		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S_{DS} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2013	ICC-ES AC156	2.5	1	1.5	4.00	3.00	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								

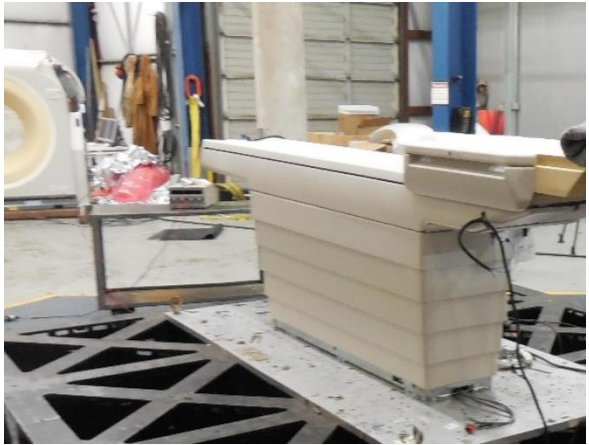


UUT-1603-4 Ingenuity CT Gantry		DATE: 06/19/2020						
MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.							
IDENTIFICATION:	Part No. 459800708861							
	Serial No. 80680							
DESCRIPTION:	Component of the Ingenuity CT system.							
MOUNTING:	Floor mounted using (8) - 3/4" diam. SAE J429 Grade 8 bolts							
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
93.5	37	78.9		7.0	6.5	22.2		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S_{DS} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								



ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 3 OF 7

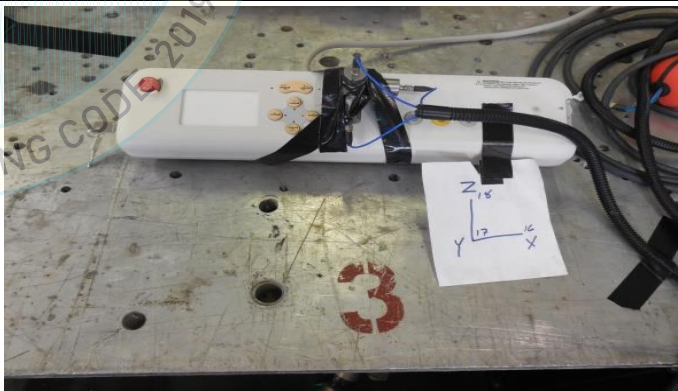
UUT-1603-5 Patient Support - Extended									
MANUFACTURER:		Philips Healthcare (Suzhou) Co., Ltd.							
IDENTIFICATION:		Part No. 459800021211							
DESCRIPTION:		Component of the Ingenuity CT system. Type No.: 459800722541REV: C (Label 1) Part No. 459800778261 REV: B (Label 2)							
MOUNTING:		Floor mounted using (5) - 5/8" diam. SAE J429 Grade 8 bolts							
									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vertical-Axis		
22.7	117.6	41.375	918 + 450 patient		7	24.5	4.4		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test									

UUT-1603-6 Ingenuity CT Box									
MANUFACTURER:		Philips Medical Systems (Cleveland), Inc. & Vexos							
IDENTIFICATION:		Part No. 453567027195 Rev:F Serial No. 232							
DESCRIPTION:		Component of the Ingenuity CT system.							
MOUNTING:		Floor mounted using (2) - 2" x 1" 3M "Dual Lock" reclosable fasteners at each of two tapered feet.							
									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vertical-Axis		
15.8	4	3.5	4		22.4	>50	>50		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test									

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 4 OF 7

UUT-1602-2 Patient Support, Bariatric								
MANUFACTURER:	Philips Healthcare (Suzhou) Co., Ltd.							
IDENTIFICATION:	Part No. 453567391361 Serial No. 921012							
DESCRIPTION:	Component of the Brilliance Big Bore CT & Ingenuity CT systems.							
MOUNTING:	Floor mounted using (5) – 5/8" diam. SAE J429 Grade 8 bolts							
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis		
22.7	107.4	36		3.3	7.3	4.7		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20 2.50	2.40 1.00	1.34 1.68	0.54 0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								

UUT-1707-4 CT Box								
MANUFACTURER:	Philips Medical Systems (Cleveland), Inc. & Grayhill Electronics (Shenzhen) Co.							
IDENTIFICATION:	Part No. 459800484611 Serial No. 000841							
DESCRIPTION:	Component of the Brilliance Big Bore CT & Ingenuity CT systems.							
MOUNTING:	Rigid Base mounted using (2) – Philips Healthcare CT Box Seismic Mounting Strip (P/N 459801147561) at each of two legs.							
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis		
15.8	4	3.5		>50	>50	>50		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 5 OF 7

UUT1705- 2 Patient Support – Standard						
MANUFACTURER: Philips Medical Systems (Cleveland), Inc.						
IDENTIFICATION: Part No.: 453567480181						
DESCRIPTION: Component of the Brilliance iCT & Ingenuity CT systems Patient Support - Standard including: PIM 459801139791 Gantry/Couch Anchor Bracket Seismic Kit 459800073071 Plinth Group, Couch Base						
MOUNTING: Rigid Base (Floor) mounted using (5) – ½" diam. SAE J429 Grade 8 bolts w/ Philips supplied washer kit.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis
22.7	107.4	42	889	24.3	3.4	4.6
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT 1713-1 CRC RACK (Avnet)							
MANUFACTURER: Philips Medical Systems (Cleveland), Inc. & Avnet Technology Solutions (Tianjin) Ltd.							
IDENTIFICATION: CRC Rack Common Host CIRS							
459801089011 459801304931 459801305071							
DESCRIPTION: Component common to multiple Philips CT systems CRC RACK (Avnet) including: - Common Host Computer (CRC) (HP z440): UPD Host z440, Kbd, Mouse, CAN, Adapter - CIRS Computer (HP z840): UPD Host z440, Kbd, Mouse, CAN, Adapter - CRC Rack Seismic package KIT (459801357921) The Test Specimen was fully populated throughout test.							
MOUNTING: Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.							
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height		Longit -Axis	Transv-Axis	Vert-Axis	
24.0	35.6	29.9	317.5	12.58	11.54	21.43	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS							CODE: 2016 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 6 OF 7

UUT 1806-3 Gen 5.3 CRC Rack IMR (Avnet)						
MANUFACTURER:			Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.			
IDENTIFICATION:			Part No. 459801540281			
			Serial No.: N/A			
DESCRIPTION:			Gen 5.3 CRC Rack (Avnet) Component of Big Bore, iCT and Ingenuity CT systems <u>Includes the following:</u> CT Gen5.3 IDose CIRS, Z8 + ACQ (HP), Part: 459801493311 w/ 1 TB NVMe SSD, Part: MZVLB1T0HALR-000H2 Host z4, Kbd, Mouse, CAN, Adaptor; Part: 459801493301 <u>Also included:</u> 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 Requires Seismic Kit 12NC P/N: 459801561661 Test unit was fully populated throughout test.			
MOUNTING:			Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.			
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Longit-Axis	Transv-Axis	Vert-Axis
24	35	30		16.26	22.41	16.87
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0	1	1.5	3.2	2.4	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



UUT 1806-4 Gen 5.3 CRC Rack IMR (Avnet)							
MANUFACTURER:		Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.					
IDENTIFICATION:		Part No. 459801286611					
DESCRIPTION:		Gen 5.3 CRC Rack IMR (Avnet) Component of Big Bore, ICT and Ingenuity CT systems <u>Includes the following:</u> CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HP), Part: 459801626701 CT Gen 5.3 IMR CIRS S2, Z8 (HP), Part: 459801626691 w/ 1 TB NVMe SSD, Part: MZVLB1T0HALR-000H2 <u>Also included:</u> 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 Requires Seismic Kit 12NC P/N: 459801561811 Test unit was fully populated throughout test.					
MOUNTING:		Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.					
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Side-Axis		Front-Axis	Vert-Axis	
24	35	30	15.66		21.63	16.29	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC	
S _{DS} (G)	z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.0	1	1.5	3.20	2.40	1.68	0.68	
2.5	0						
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.							

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 7 OF 7

UUT 1806-5				Gen 5.3 Host Rack IMR (Avnet)		
MANUFACTURER:		Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.				
IDENTIFICATION:		Part No. 459801287961 Serial No. AVTHOSTIMR00002				
DESCRIPTION:		Gen 5.3 Host Rack IMR (Avnet) Component of Big Bore, ICT and Ingenuity CT systems <u>Includes the following:</u> Host Z4, Kbd, Mouse, CAN, Adaptor (HP), Part: 459801493301 Requires Seismic Kit 12NC P/N: 459801561671 Test unit was fully populated throughout test.				
MOUNTING:		Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.				
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
13	35	30	189	36.55	13.03	25.90
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS				CODE: 2016 CBC		
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.						