

TEST REPORT

FCC WPT Test for NVT-T15M Certification

APPLICANT

Novatech Co.,Ltd.

REPORT NO.

HCT-SR-2105-FC004

DATE OF ISSUE

May 24, 2021

Tested by
Jung Hun Park

(signature)



Technical Manager
Yun Jeang Heo

(signature)



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REPORTFCC WPT Test for
NVT-T15MREPORT NO.
HCT-SR-2105-FC004DATE OF ISSUE
May 24, 2021Additional Model
-

Applicant	Novatech Co.,Ltd. 11st floor, U-TOWER, 120, Heungdeok Jungang-ro, Giheung-gu Yongin-si Gyeonggi-do 16950 South Korea
Eut Type Model Name	Wireless Charger NVT-T15M
FCC ID	2AZTP-NVT-T15M
Frequency of Operation	110 kHz ~ 148 kHz(Wireless Charger)
FCC Classification	Wireless Power Charger
FCC Rule Part(s)	FCC Part 1 SUBPART I FCC Part 2 SUBPART J KDB 680106 D01

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	May 24, 2021	Initial Release

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

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1. EUT DESCRIPTION

Model	NVT-T15M
EUT Type	Wireless Charger
Power Supply (Operating voltage)	DC 5.0 [V] DC 9.0 [V]
Travel Adapter Information (For Testing)	Model : EP-TA800(SAMSUNG) Type : C to C <i>PDO(Power Data Objective)</i> - 5V(3A), 9V(2.77A) <i>PPS(Programmable Power Supply)</i> - 3.3-5.9V(3A), 3.3-11V(2.25A)
Frequency of Operation	110 kHz ~ 148 kHz (Wireless Power Charging)
Max. Transmit Power	-3.72 dBuV/m @300 m
Date(s) of Tests	April 05, 2021 ~ May 04, 2021

2. KDB 680106 D01 v03 SECTION 5.b) EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Power transfer frequency is less than 1 MHz.	Yes. Operation Frequency is between 110 kHz to 148 KHz.
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. Maximum power is 14.4 Watts.
(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and client that are able to detect and allow coupling only between individual pairs of coils	Yes.
(4) Client device is placed directly in contact with the transmitter.	Yes.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes.
(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes. The aggregate field at 15 cm from the device are 9.88 % of the FCC H field limit.

3 DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Numver	FCC ID
Watch	SAMSUNG Electronics Co., Ltd.	SM-R835F	RFAM80Q6NJW	A3LSMR835
Phone	SAMSUNG Electronics Co., Ltd.	SM-G986B/DS	RF8M70ZA4FH	A3LSMG986B

TEST SETUP

The following three modes are tested in test configuration;

All Position of client device were investigated and the worst position results are reported.

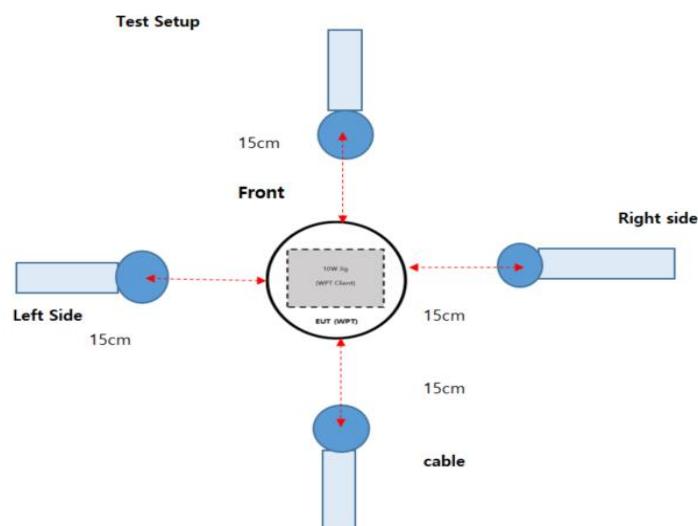
MEASUREMENT TEST SETUP

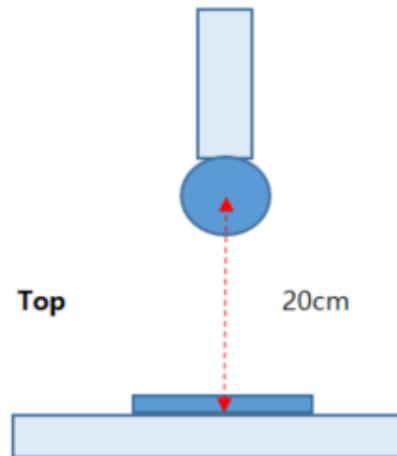
The measurement was taken using a probe place 15 cm from the edges of DUT or 20 cm above the DUT. Measurement were from the top and all sides of the DUT per KDB680106 D01 v03. Additionally, as the DUT to phone configuration could result with the DUT place either above or below the phone, measurements were performed 'below' the DUT by flipping the DUT/phone so that the DUT was uppermost.

The probe was moved along the edges or above the DUT to a position that showed the maximum field strength. This position was used for the reported result.

Measurement distance: From all sides and top of the primary client pair to the center of the Probe

Side : 15 cm / Top side :20cm





4. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report :

Manufacturer	Model name	Description	S/N	Calib. Date	Calib.Due
Narda	EHP-200AC	Electric and Magnetic Field Probe	170WX91009	11/22/2019	11/22/2021

5. FCC RULES MAXIMUM PERMISSIBLE RE EXPOSURE

1.13010 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency(RF) radiation as specified in 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500	.....	.....	f/300	6
1500–100,000	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
30–300	27.5	0.073	0.2	30
300–1500	.....	.....	f/1500	30
1500–100,000	.....	.....	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

6. Measurement RESULTS

H-Field Measurements

Note : peak measurements were performed. RMS values were calculated from the peak measurement.

Please refer to the formula for calculating the RMS value: [Field Strength * $\sqrt{\text{Duty Cycle}}$]

14.4 W (9V)			
Configuration	Distance(cm)	Measure Data[A/m]	H-Field Limit[A/m]
Top	20	0.1610	1.63
Cable	15	0.1270	
Left side	15	0.1230	
Right Side	15	0.1290	
Front side	15	0.1230	
5.5W (5V)			
Configuration	Distance(cm)	Measure Data[A/m]	H-Field Limit[A/m]
Top	20	0.1510	1.63
Cable	15	0.1200	
Left side	15	0.1240	
Right Side	15	0.1210	
Front side	15	0.1314	

7 FCC SUMMARY OF RESULTS

H-Field Limit		
FCC RF Exposure	Maximum meas data (A/m)	Percentage(%)
1.63	0.161	9.88

H-Field test result was less than 50% of MPE limit

Annex A. Probe calibration



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20090 Segrate (MI)
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Manufacturing Plant: Via Benessea, 29/B
17035 Cisano sul Neva (SV)
Tel: +39 0182 58641 Fax: +39 02 586400

CERTIFICATE OF CALIBRATION
Certificato di taratura

Number 91009
Numero

Item <i>Oggetto</i>	Electric and Magnetic field Probe - Analyzer	This calibration certificate documents the traceability to national/international standards, which realise the physical units of measurements according to the International System of Units (SI). Verification of traceability is guaranteed by mentioning used equipment included in the measurement chain. This equipment includes reference standard directly traceable to (international) standard (accuracy rating A) and working standard calibrated by the calibration laboratory of Narda Safety Test Solutions (accuracy rating B) by means of reference standard A or by other calibration laboratory.
Manufacturer <i>Costruttore</i>	Narda S.T.S. / PMM	The measurement uncertainties stated in this document are estimated at the level of twice the standard deviation (corresponding, in the case of normal distribution, to a confidence level of about 95%). The uncertainties are calculated in conformity to the ISO Guide (Guide to the expression of uncertainty in measurement). The metrological confirmation system for the measuring equipment used is in compliance with ISO 10012-1. The applied quality system is certified to UNI EN ISO 9001.
Model <i>Modello</i>	EHP 200AC	Questo certificato di taratura documenta la tracciabilità a campioni primari nazionali o internazionali i quali realizzano la riferibilità alle unità fisiche del Sistema Internazionale delle Unità (SI). La verifica della tracciabilità è garantita elencando gli strumenti presenti nella catena di misura. La catena di riferibilità metrologica fa riferimento a campioni di prima linea direttamente riferiti a standard (internationali (classe A), di seconda linea, tarati nel laboratorio metrologico della Narda Safety Test Solutions con riferibilità ai campioni di prima linea oppure tarati da Enti esterni accreditati (classe B). Le incertezze di misura dichiarate in questo documento sono espresse come due volte lo scarto tipo (corrispondente, nel caso di distribuzione normale, a un livello di confidenza di circa 95%). Le incertezze di misura sono calcolate in riferimento alla guida ISO. La conferma metrologica della strumentazione usata è conforme alla ISO 10012-1. Il sistema di qualità è certificato ISO 9001.
Serial number <i>Matricola</i>	170WX91009	
Calibration procedure <i>Procedura di taratura</i>	Internal procedure PTP 09-43	
Date(s) of measurements <i>Data(e) delle misure</i>	22.11.2019	
Result of calibration <i>Risultato della taratura</i>	Measurements results within specifications	

결재	담당자	확인자
재	3W	6J
직위/성명	SW 12.11.2019	6J 12.11.2019
일자	2019.11.20	2019.12.09

COMPANY WITH QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

Date of issue
Data di emissione

22.11.2019

Measure operator
Operatore misure

F. Ferrari

Person responsible
Responsabile

Or Basso
O. Basso

This calibration certificate may not be reproduced other than in full. Calibration certificate without signature are not valid. The user is recommended to have the object recalibrated at appropriate intervals.
La riproduzione del presente documento è ammessa in copia conforme integrale. Il certificato non è valido in assenza di firma. All'utente dello strumento è raccomandata la ricalibrazione nell'appropriato intervallo di tempo.

Calibration Certificate number 91009
Page 2 of 7

The calibration was carried out at an ambient temperature of $(23 \pm 3)^\circ\text{C}$ and at a relative humidity of $(50 \pm 10)\%$.

Calibration method*Electric and Magnetic (Mode A) field*

The calibration of field strength monitors involves the generation of a calculable linearly polarised electromagnetic field, approximating to a plane wave, into which the probes or sensors are placed. The standard field is created in transverse electromagnetic (TEM) transmission cell. For each measurement, the input power was adjusted so that the field strength was set to a specified reading on the monitor. The actual field strength, at the plane of reference of the probe was then determined and the correction factor calculated using the following definition.

$$\text{Correction factor} = \frac{\text{Actual field strength}}{\text{Indicated field strength}}$$

Note: The term "field strength" refers to the r.m.s. value of the electric or magnetic wave amplitude.

Magnetic (Mode B) field

The magnetic calibration was set up with the probe in a region of uniform magnetic field at the centre of a calibrated Helmholtz coil system. The magnetic flux density is calculated from the current flowing in the coil. The current waveform was sinusoidal. The current in the Helmholtz coil system was adjusted to produce a series of indicated magnetic field on the instrument at various frequencies.

The instrument readings were recorded and the actual values of magnetic field were calculated from the measured currents.

The magnetic correction factor (CF) is defined as the ratio between actual and indicated magnetic field using the following definition.

$$\text{Correction factor} = \frac{\text{Actual magnetic field value}}{\text{Indicated magnetic field value}}$$

The auxiliary RF input is calibrated with a signal generator.

The output power of the generator is calibrated with a power meter. The difference between the output power and the EHP200AC indicated level is taken into account by using the calibration results as correction value stored in the internal EEPROM.

Calibration Certificate number 91009
Page 3 of 7**Calibration equipment and traceability**

The equipment used for this calibration are traceable to the reference listed below (accuracy rating A) and the traceability of them is guaranteed by ISO 9001 Narda Safety Test Solutions internal procedure.

ID Number	Standard	Equipment	Model	Trace
CMR 143	R.F. power	Power Sensor	HP8484A	UKAS
CMR 146		Power Sensor	HP8482A	UKAS
CMR 324		Power Sensor	NRV-Z51	Dakks
CMR 246	Frequency	Rubidium Oscillator	R&S XSRM	INRIM
CMR 245		GPS Control System	ESAT GPS100	INRIM
CMR 211	DC Voltage	DC Voltage Standard	YOKOGAWA 2552	Accredia
CMR 212	DC Current	Current Unit Standard	YOKOGAWA 2561	Accredia
CMR 210	AC Voltage and Current	AC Voltage Current	YOKOGAWA 2558	Accredia
PMM 334	Voltage Reflection	Calibration Kit	HP 85032B	A2LA
CMR 133	Coefficient and RF Attenuation	Calibration Kit	HP 85054D	A2LA
CMR 186	Impulse Generation	Pulse Generator	IGUU 2918	METAS
PMM 391	DC Resistor	Multimeter	HP 34401A	UKAS
PMM 407	Inductance and Capacitor	LCR meter	HP 4263A	UKAS

Uncertainty of measurements

The statement of uncertainty (see first page) does not make any implication or include any estimation as to the long term stability of the calibrated monitor. The expanded uncertainty are given below

7.8 % for electric and magnetic (Mode A) field measurements

3.5 % for magnetic (Mode B) field measurements

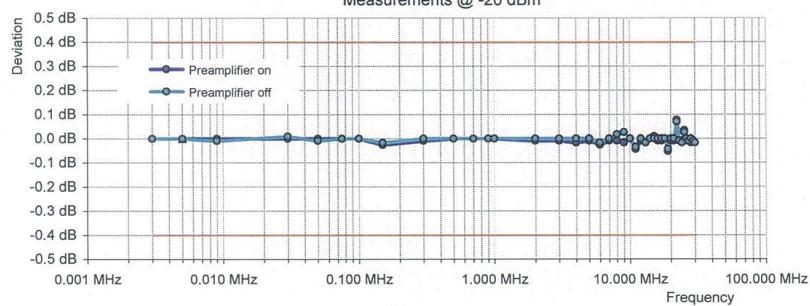
4.5 % for auxiliary RF input

Results

The results of measurements in the following pages were obtained after calibration data storing. The shown limits of the EHP 200AC specification in the diagrams are in orange.

Calibration Certificate number 91009
Page 4 of 7**Auxiliary RF input**Frequency response for RF auxiliary input with and without preamplifier (Pre.)
at measurement of -20 dBm

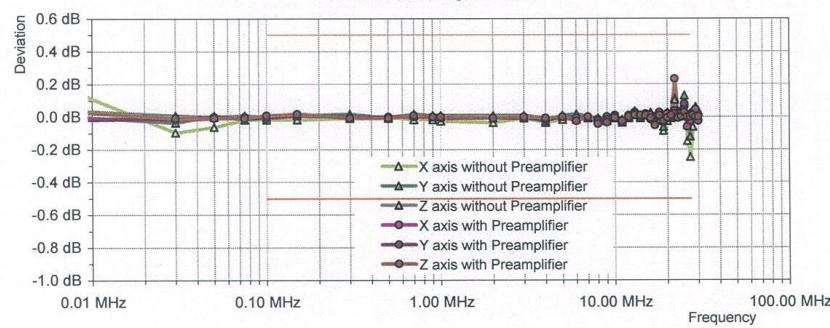
Frequency (MHz)	Deviation	
	Pre. Off (dB)	Pre. On (dB)
0.003	0.00	0.00
0.005	0.00	0.00
0.009	-0.01	0.00
0.030	0.01	0.00
0.050	-0.01	0.00
0.075	0.00	0.00
0.100	0.00	0.00
0.150	-0.02	-0.03
0.300	0.00	-0.01
0.500	0.00	0.00
0.700	0.00	0.00
0.900	0.00	0.00
1.000	0.00	0.00
2.000	0.00	-0.01
3.000	0.00	-0.01
4.000	0.00	-0.02
5.000	0.00	-0.01
6.000	-0.02	-0.03
7.000	0.00	-0.01
8.000	0.02	-0.01
9.000	0.03	-0.02
10.000	0.00	0.00
11.000	-0.03	-0.04
12.000	0.00	-0.01
13.000	-0.02	-0.02
14.000	0.00	0.00
15.000	0.00	0.01
16.000	0.00	-0.01
17.000	0.00	-0.01
18.000	0.00	0.00
19.000	-0.04	-0.05
20.000	0.00	-0.01
21.000	0.00	-0.01
22.000	0.07	0.08
23.000	-0.01	-0.01
24.000	-0.02	-0.01
25.000	0.03	0.03
26.000	0.00	-0.01
27.000	-0.01	-0.01
28.000	0.00	-0.02
29.000	-0.01	-0.01
30.000	-0.02	-0.02

Frequency response EHP200AC auxiliary RF input
Measurements @ -20 dBm

Electric field Frequency response for each axis, with and without preamplifier,
at applied field of 20 V/m

Freq. MHz	Deviation without preamplifier			Deviation with preamplifier		
	X axis (dB)	Y axis (dB)	Z axis (dB)	X axis (dB)	Y axis (dB)	Z axis (dB)
0.009	0.13	0.00	0.03	-0.01	-0.02	0.03
0.030	-0.10	-0.03	0.01	-0.02	-0.01	-0.01
0.050	-0.06	0.01	0.00	-0.01	0.00	-0.01
0.075	-0.02	-0.02	0.01	0.00	-0.01	-0.01
0.100	-0.02	0.00	0.00	-0.01	0.00	0.01
0.150	-0.02	0.01	0.02	0.01	0.02	0.02
0.300	-0.01	0.02	0.00	0.00	-0.01	-0.01
0.500	0.00	-0.01	-0.01	0.00	0.00	-0.01
0.700	-0.02	0.01	0.02	0.00	0.01	0.01
0.900	-0.02	0.00	0.01	0.00	0.00	0.00
1.000	-0.03	0.00	0.01	-0.01	0.00	0.00
2.000	-0.03	-0.01	0.01	-0.01	-0.01	-0.01
3.000	-0.01	0.00	0.01	0.00	-0.01	0.00
4.000	-0.03	-0.03	-0.01	-0.01	-0.02	-0.01
5.000	-0.02	0.01	0.00	0.00	0.00	0.00
6.000	-0.02	0.02	-0.01	-0.01	-0.03	-0.03
7.000	-0.01	0.00	0.00	0.00	0.00	0.00
8.000	-0.02	-0.01	-0.02	-0.02	-0.03	-0.04
9.000	-0.02	-0.02	-0.03	0.00	-0.02	-0.03
10.000	-0.01	0.00	0.00	0.01	0.00	-0.01
11.000	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03
12.000	-0.01	0.00	0.01	0.01	-0.01	0.00
13.000	0.03	0.03	0.02	0.03	0.02	0.01
14.000	-0.01	0.00	0.00	0.01	0.00	0.01
15.000	0.01	0.02	0.02	0.02	0.01	0.01
16.000	0.03	0.02	0.01	0.01	-0.02	-0.01
17.000	0.00	0.00	-0.03	-0.05	-0.05	-0.05
18.000	-0.02	0.01	0.00	0.03	0.00	0.01
19.000	-0.09	-0.06	-0.03	-0.03	-0.03	-0.03
20.000	-0.03	0.03	0.01	0.02	-0.01	-0.01
21.000	-0.01	0.02	0.02	0.00	0.01	0.01
22.000	0.11	0.10	0.10	0.03	0.02	0.23
23.000	0.03	0.01	0.00	0.01	0.00	-0.01
24.000	0.04	0.02	0.01	0.02	0.00	0.00
25.000	0.04	0.13	0.09	0.06	0.08	0.03
26.000	-0.15	-0.05	0.01	-0.06	-0.01	0.00
27.000	-0.25	-0.12	0.00	-0.03	0.01	0.00
28.000	-0.06	0.03	0.00	0.03	0.00	0.01
29.000	0.06	0.00	0.02	0.04	0.00	0.00
30.000	0.03	0.03	0.00	-0.03	0.00	0.00

Frequency response EHP200AC Electric field
Measurements @ 20 V/m



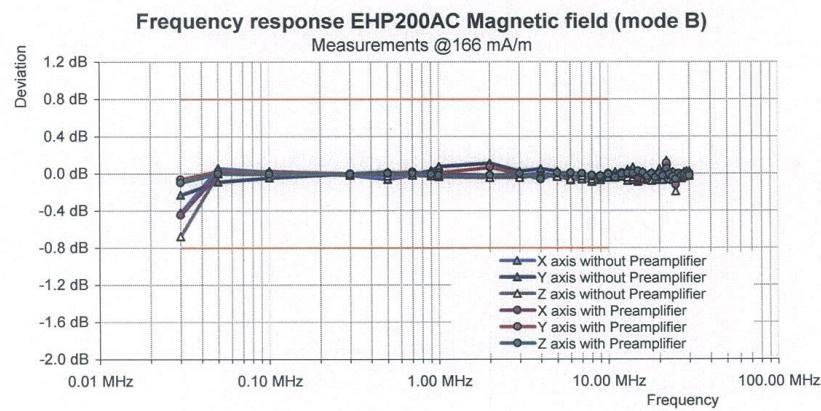


Calibration Certificate number 91009

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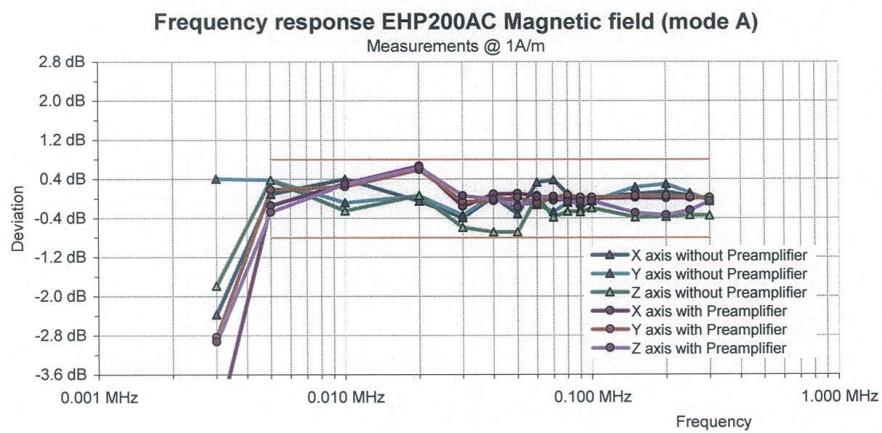
Magnetic Field Frequency response for each axis, with and without preamplifier,
(Mode B) at applied field of 166 mA/m

Freq. MHz	Deviation without preamplifier			Deviation with preamplifier		
	X axis (dB)	Y axis (dB)	Z axis (dB)	X axis (dB)	Y axis (dB)	Z axis (dB)
0.03	-0.42	-0.23	-0.68	-0.45	-0.06	-0.10
0.05	0.06	-0.09	0.00	0.00	0.03	0.00
0.1	0.02	-0.04	0.03	0.00	0.01	-0.01
0.3	-0.02	0.00	0.00	-0.01	0.00	-0.01
0.5	-0.06	0.02	-0.03	0.00	0.01	0.00
0.7	-0.02	-0.01	-0.02	0.01	0.02	0.00
0.9	-0.03	0.03	0.01	-0.01	0.00	-0.01
1.0	-0.03	0.08	-0.03	0.00	0.01	-0.02
2.0	-0.04	0.11	-0.04	-0.02	0.07	-0.02
3.0	-0.02	0.03	-0.04	-0.01	0.00	0.00
4.0	0.01	0.05	-0.02	-0.05	-0.05	-0.06
5.0	-0.02	0.03	-0.03	0.00	0.00	0.01
6.0	-0.07	-0.04	-0.06	-0.01	0.00	0.01
7.0	-0.06	0.00	-0.03	0.00	0.00	0.00
8.0	-0.09	-0.02	-0.06	-0.03	-0.03	-0.02
9.0	-0.07	-0.02	-0.03	-0.05	-0.03	-0.03
10.0	-0.04	0.01	-0.01	-0.01	0.00	-0.01
11.0	-0.04	-0.03	0.02	-0.03	-0.03	-0.04
12.0	-0.03	-0.01	-0.03	0.01	0.00	-0.01
13.0	-0.08	0.04	-0.04	0.01	-0.01	0.00
14.0	-0.07	0.07	-0.04	-0.02	-0.01	0.00
15.0	-0.09	-0.07	-0.02	-0.05	0.01	0.03
16.0	0.00	-0.05	0.02	-0.02	0.00	0.01
17.0	-0.03	-0.07	-0.05	-0.05	-0.06	-0.03
18.0	0.01	0.01	-0.08	-0.03	-0.03	0.00
19.0	-0.07	-0.02	-0.06	-0.04	-0.03	-0.04
20.0	-0.03	0.05	-0.02	-0.01	0.00	0.00
21.0	-0.07	0.01	0.02	-0.01	-0.02	-0.03
22.0	0.13	0.11	0.14	0.09	0.11	0.05
23.0	-0.06	-0.02	-0.01	-0.01	-0.01	-0.01
24.0	-0.07	0.02	0.00	-0.02	0.01	-0.03
25.0	-0.02	-0.04	-0.19	-0.05	-0.12	-0.06
26.0	-0.05	-0.03	-0.03	-0.01	-0.03	0.00
27.0	-0.05	-0.03	-0.03	-0.01	-0.02	-0.02
28.0	-0.03	0.02	-0.03	0.00	-0.02	-0.02
29.0	-0.03	-0.02	0.03	-0.03	-0.02	-0.03
30.0	0.03	-0.03	-0.02	0.00	-0.01	-0.03



Magnetic Field (Mode A) Frequency response for each axis, with and without preamplifier, at applied field of 1A/m

Freq. MHz	Deviation without preamplifier			Deviation with preamplifier		
	X axis (dB)	Y axis (dB)	Z axis (dB)	X axis (dB)	Y axis (dB)	Z axis (dB)
0.003	-2.37	0.41	-1.79	-4.64	-2.83	-2.93
0.005	0.10	0.38	0.38	-0.14	0.18	-0.27
0.010	0.40	-0.08	-0.25	0.31	0.25	0.30
0.020	-0.05	0.06	0.07	0.67	0.60	0.64
0.030	-0.39	-0.34	-0.59	-0.16	-0.06	0.06
0.040	0.04	0.07	-0.69	0.10	-0.04	-0.01
0.050	-0.32	-0.09	-0.69	0.10	0.03	-0.18
0.060	0.33	-0.12	0.03	0.06	-0.10	0.03
0.070	0.38	-0.27	-0.38	-0.03	0.03	0.04
0.080	0.10	-0.08	-0.26	-0.01	0.07	-0.06
0.090	-0.20	-0.10	-0.27	0.03	0.03	-0.06
0.100	0.01	-0.05	-0.19	0.01	0.03	-0.04
0.150	0.10	0.23	-0.38	0.02	0.05	-0.29
0.200	0.14	0.30	-0.37	0.01	0.05	-0.34
0.250	0.05	0.11	-0.34	0.02	0.03	-0.24
0.300	0.00	-0.05	-0.35	0.02	0.02	-0.05



Annex B. Setup Photos.

Please refer to test DUT Ant. Information & setup photo file no. as follows:

No.	Description
0	HCT-SR-2105-FC004-P