

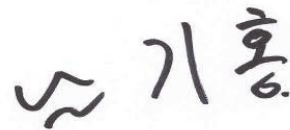
RADIO PERFORMANCE TEST REPORT (CLASS II PERMISSIVE CHANGE)

Test Report No. : OT-228-RWD-026
Reception No. : 2208002471
Applicant : Samsung Electronics Co., Ltd.
Address : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058
Manufacturer : Samsung Electronics Co., Ltd.
Address : Yen Phong 1 Industrial park, Yen Phong District Bac Ninh Province, VIETNAM
Type of Equipment : WIRELESS CHARGER
FCC ID. : A3LEPP6300
Model Name : EP-P6300
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 32 pages (including this page)
Date of Incoming : August 05, 2022
Date of issue : August 26, 2022

SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 1.1310**
 This test report only contains the result of a single test of the sample supplied for the examination.
 It is not a generally valid assessment of the features of the respective products of the mass-production.
This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.





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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-228-RWD-026	August 26, 2022	Additions and Changes to Parts Manufacturers. (Class II Permissive Change)	All

1. VERIFICATION OF COMPLIANCE

APPLICANT : Samsung Electronics Co., Ltd.
 ADDRESS : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058
 CONTACT PERSON : Jenni, Chun / General Manager
 TELEPHONE NO : +973-808-6375
 FCC ID : A3LEPP6300
 MODEL NAME : EP-P6300
 BRAND NAME : -
 SERIAL NUMBER : N/A
 DATE : August 26, 2022

EQUIPMENT CLASS	DCD – Part 15 Low Power Transmitter Below 1 705 kHz
KIND OF EQUIPMENT	WIRELESS CHARGER
THIS REPORT CONCERNS	Class II Permissive Change
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC&IC RULES PART(S)	FCC CFR 47 PART 1.1310
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. The equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The Samsung Electronics Co., Ltd., Model: EP-P6300 (referred to as the EUT in this report) is an WIRELESS CHARGER. Product specification information described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	WIRELESS CHARGER
OPERATING FREQUENCY	119.0 kHz ~ 122 kHz (Antenna 1, Antenna 2, Antenna 3, Antenna 4, Antenna 5, Antenna 6), 126.2 kHz ~ 129.2 kHz (Antenna 1, Antenna 2, Antenna 3, Antenna 4, Antenna 5, Antenna 6), 136.5 kHz ~ 139.5 kHz (Antenna 1, Antenna 2, Antenna 3), 144.5 kHz ~ 147.5 kHz (Antenna 4, Antenna 5, Antenna 6, Antenna 7)
RATED RF OUTPUT POWER	95.6 dB μ V/m
OPERATION MODE	2 W, 4.5 W, 7.5 W, 9 W
ANTENNA TYPE	Loop Coil Antenna
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 9.0 V

2.2 Accessories Description

DEVICE	MODEL	MANUFACTURER	SERIAL	SETTING SPECIFICATION	
				WATT	FREQUENCY
Mobile 1 (Galaxy S21)	SM-G991U	SAMSUNG	R3CNA03HREF	4.5W / 7.5W / 15W	138.0 kHz / 145.5 kHz
			R3CNA03J79W		
Mobile 2 (Galaxy Note 10)	SM-N970U	SAMSUNG	R38M60EDYJT	4.5W / 9 W	120.5 kHz
			R38M60ANP7Y		
Earphones (Earbuds)	SM-R190	SAMSUNG	RF2R10A8PVW	2 W	127.7 kHz
			RF2R10CDPDN		
Watches (Galaxy Watch Active2)	SM-R830	SAMSUNG	RFAM91TCP0Y	2 W	145.5 kHz

2.3 Alternative type(s)/model(s); also covered by this test report.

-. None

4. RADIO FREQUENCY EXPOSURE

4.1 Environmental evaluation and exposure limit

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment 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 FCC part 2.1093 of this chapter

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm ²]	Average Time [minutes]
(A) Limits for Occupational / Control Exposures				
0.3 – 3.0	614	1.63	*(100)	6
3.0 – 30	1 842/f	4.89/f	*(900/f ²)	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500			f/300	6
1 500 – 100 000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	*(100)	30
3.0 – 30	824/f	2.19/f	*(180/f ²)	30
30 – 300	27.5	0.073	0.2	30
300 – 1 500			f/1 500	30
1 500 – 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.

The EUT does meet the requirement of section 5. b) of KDB 680106 D01 RF Exposure Wireless Charging Apps v03

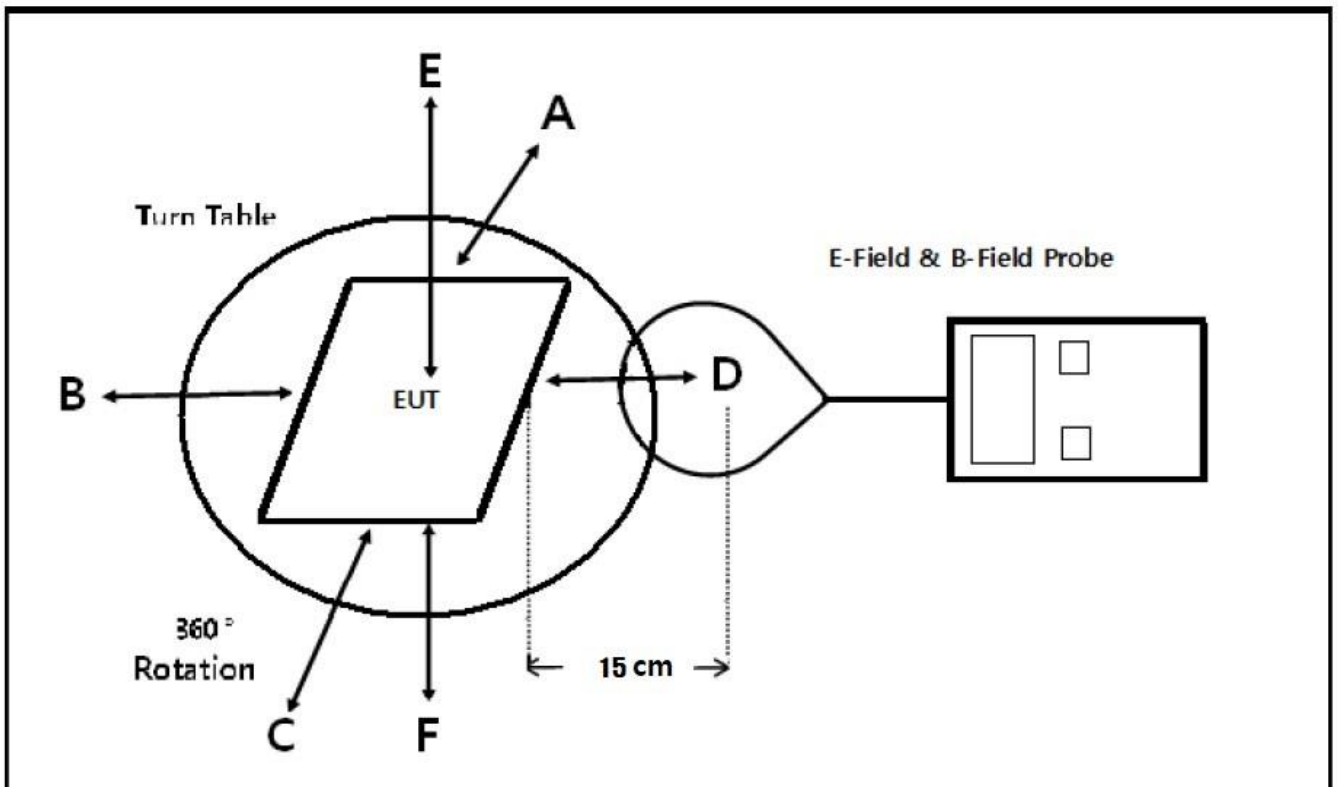
Conditions requirement	Answers
Power transfer frequency is less than 1MHz	After measuring the product the transfer frequency is 110-205 kHz
Output power from each primary coil is less than 15 watts	After measuring the product the each primary coil power is 15 watts
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	The transfer system includes single primary
Client devices is inserted in or placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only
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.	After measuring the product the Max H-field Strength is 0.213 A/m Far less than 50% of the MPE limit.

4.2 H / E field strength

4.2.1 EUT Operating condition

Mode	Test Mode	Description
Charging Mode With load	Power <10% charging	Using Max. load
	Power 50 ~ 55% charging	Using Mid. load
	Power 90 ~ 95% charging	Using Min. load

4.2.2 EUT Operating condition



4.2.3 Measurement procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

4.2.3 Test data for Mode 1 (Ant-A : Earphones (127.7 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.456	0.463	0.432	0.494	0.481	0.459	-	-
Mid load	0.453	0.473	0.436	0.487	0.486	0.478	-	-
Min load	0.451	0.467	0.437	0.495	0.494	0.434	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	136.45	138.55	129.27	147.82	143.93	137.35	307.00	614.00
Mid load	135.55	141.54	130.47	145.73	145.43	143.03	307.00	614.00
Min load	134.95	139.74	130.77	148.15	147.82	129.87	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.363	0.369	0.344	0.393	0.383	0.365	0.815	1.630
Mid load	0.361	0.377	0.347	0.388	0.387	0.381	0.815	1.630
Min load	0.359	0.372	0.348	0.394	0.393	0.346	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.4 Test data for Mode 2 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.444	0.389	0.427	0.510	0.459	0.490	-	-
Mid load	0.454	0.411	0.463	0.534	0.477	0.441	-	-
Min load	0.430	0.394	0.422	0.470	0.457	0.482	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	132.86	116.40	127.77	152.61	137.35	146.62	307.00	614.00
Mid load	135.85	122.99	138.55	159.79	142.73	131.96	307.00	614.00
Min load	128.67	117.90	126.28	140.64	136.75	144.23	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.354	0.310	0.340	0.406	0.365	0.390	0.815	1.630
Mid load	0.361	0.327	0.369	0.425	0.380	0.351	0.815	1.630
Min load	0.342	0.314	0.336	0.374	0.364	0.384	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.5 Test data for Mode 3 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.435	0.464	0.434	0.395	0.405	0.429	-	-
Mid load	0.438	0.465	0.431	0.398	0.443	0.461	-	-
Min load	0.441	0.449	0.422	0.422	0.482	0.453	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	130.17	138.84	129.87	118.20	121.19	128.37	307.00	614.00
Mid load	131.06	139.14	128.97	119.09	132.56	137.95	307.00	614.00
Min load	131.96	134.36	126.28	126.28	144.23	135.55	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.346	0.369	0.346	0.314	0.322	0.342	0.815	1.630
Mid load	0.349	0.370	0.343	0.317	0.353	0.367	0.815	1.630
Min load	0.351	0.357	0.336	0.336	0.384	0.361	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.6 Test data for Mode 4 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.458	0.505	0.462	0.495	0.468	0.439	-	-
Mid load	0.470	0.506	0.445	0.473	0.445	0.432	-	-
Min load	0.457	0.515	0.439	0.460	0.442	0.420	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	137.05	151.11	138.25	148.12	140.04	131.36	307.00	614.00
Mid load	140.64	151.41	133.16	141.54	133.16	129.27	307.00	614.00
Min load	136.75	154.11	131.36	137.65	132.26	125.68	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.365	0.402	0.368	0.394	0.373	0.350	0.815	1.630
Mid load	0.374	0.403	0.354	0.377	0.354	0.344	0.815	1.630
Min load	0.364	0.410	0.350	0.366	0.352	0.334	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.7 Test data for Mode 5 (Ant-A : Earphones (127.7 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.432	0.461	0.431	0.392	0.402	0.426	-	-
Mid load	0.427	0.454	0.420	0.387	0.432	0.450	-	-
Min load	0.433	0.441	0.414	0.414	0.474	0.445	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	129.17	137.85	128.87	117.20	120.19	127.37	307.00	614.00
Mid load	127.67	135.75	125.58	115.70	129.17	134.56	307.00	614.00
Min load	129.47	131.86	123.78	123.78	141.74	133.06	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.344	0.367	0.343	0.312	0.320	0.339	0.815	1.630
Mid load	0.340	0.361	0.334	0.308	0.344	0.358	0.815	1.630
Min load	0.344	0.351	0.329	0.329	0.377	0.354	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.8 Test data for Mode 6 (Ant-A : Mobile 2 (120.5 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.459	0.466	0.433	0.497	0.486	0.448	-	-
Mid load	0.463	0.462	0.425	0.492	0.489	0.481	-	-
Min load	0.440	0.470	0.442	0.484	0.475	0.439	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	137.35	139.44	129.57	148.72	145.43	134.06	307.00	614.00
Mid load	138.55	138.25	127.17	147.22	146.33	143.93	307.00	614.00
Min load	131.66	140.64	132.26	144.86	142.14	131.36	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.365	0.371	0.345	0.396	0.387	0.357	0.815	1.630
Mid load	0.369	0.368	0.338	0.392	0.389	0.383	0.815	1.630
Min load	0.350	0.374	0.352	0.385	0.378	0.350	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.9 Test data for Mode 7 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.447	0.394	0.428	0.511	0.466	0.497	-	-
Mid load	0.464	0.400	0.466	0.523	0.480	0.446	-	-
Min load	0.419	0.397	0.432	0.473	0.460	0.487	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	133.76	117.90	128.07	152.91	139.44	148.72	307.00	614.00
Mid load	138.84	119.69	139.44	156.50	143.63	133.46	307.00	614.00
Min load	125.38	118.80	129.27	141.54	137.65	145.73	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.356	0.314	0.341	0.407	0.371	0.396	0.815	1.630
Mid load	0.369	0.318	0.371	0.416	0.382	0.355	0.815	1.630
Min load	0.334	0.316	0.344	0.377	0.366	0.388	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.10 Test data for Mode 8 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.424	0.472	0.436	0.397	0.408	0.434	-	-
Mid load	0.446	0.473	0.439	0.406	0.462	0.469	-	-
Min load	0.449	0.468	0.424	0.424	0.485	0.456	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	126.88	141.24	130.47	118.80	122.09	129.87	307.00	614.00
Mid load	133.46	141.54	131.36	121.49	138.25	140.34	307.00	614.00
Min load	134.36	140.04	126.88	126.88	145.13	136.45	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.338	0.376	0.347	0.316	0.325	0.346	0.815	1.630
Mid load	0.355	0.377	0.350	0.323	0.368	0.373	0.815	1.630
Min load	0.357	0.373	0.338	0.338	0.386	0.363	0.815	1.630

※ Note. Calculation

$$V/m = 10^{(((dBuV/m)-120)/20)} = 10^{(((dBuA/m+51.5)-120)/20)} = 10^{(((20lg(A/m*10^6)+51.5)-120)/20)}$$

$$A/m = uT/1.25$$

4.2.11 Test data for Mode 9 (Ant-A : Mobile 2 (120.5 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.473	0.508	0.463	0.498	0.473	0.428	-	-
Mid load	0.480	0.495	0.434	0.478	0.448	0.435	-	-
Min load	0.446	0.518	0.444	0.449	0.423	0.428	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	141.54	152.01	138.55	149.02	141.54	128.07	307.00	614.00
Mid load	143.63	148.12	129.87	143.03	134.06	130.17	307.00	614.00
Min load	133.46	155.00	132.86	134.36	126.58	128.07	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.377	0.404	0.369	0.396	0.377	0.341	0.815	1.630
Mid load	0.382	0.394	0.346	0.381	0.357	0.346	0.815	1.630
Min load	0.355	0.412	0.354	0.357	0.337	0.341	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.12 Test data for Mode 10 (Ant-A : Mobile 1 (138.0 kHz) / B : Earphones (127.7 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.435	0.466	0.432	0.393	0.409	0.433	-	-
Mid load	0.437	0.443	0.423	0.376	0.435	0.455	-	-
Min load	0.422	0.444	0.424	0.417	0.477	0.450	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	130.07	139.34	129.17	117.50	122.29	129.47	307.00	614.00
Mid load	130.67	132.46	126.48	112.41	130.07	136.05	307.00	614.00
Min load	126.18	132.76	126.78	124.68	142.63	134.56	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.346	0.371	0.344	0.313	0.325	0.344	0.815	1.630
Mid load	0.348	0.352	0.337	0.299	0.346	0.362	0.815	1.630
Min load	0.336	0.353	0.337	0.332	0.380	0.358	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.13 Test data for Mode 11 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.464	0.479	0.434	0.512	0.504	0.488	-	-
Mid load	0.474	0.416	0.409	0.491	0.478	0.468	-	-
Min load	0.427	0.471	0.410	0.443	0.428	0.467	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	138.84	143.33	129.87	153.21	150.81	146.03	307.00	614.00
Mid load	141.84	124.48	122.39	146.92	143.03	140.04	307.00	614.00
Min load	127.77	140.94	122.69	132.56	128.07	139.74	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.369	0.381	0.346	0.408	0.401	0.389	0.815	1.630
Mid load	0.377	0.331	0.326	0.391	0.381	0.373	0.815	1.630
Min load	0.340	0.375	0.326	0.353	0.341	0.372	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.14 Test data for Mode 12 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.470	0.493	0.453	0.466	0.485	0.475	-	-
Mid load	0.428	0.433	0.426	0.439	0.470	0.494	-	-
Min load	0.425	0.462	0.423	0.436	0.451	0.459	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	140.64	147.52	135.55	139.44	145.13	142.14	307.00	614.00
Mid load	128.07	129.57	127.47	131.36	140.64	147.82	307.00	614.00
Min load	127.17	138.25	126.58	130.47	134.95	137.35	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.374	0.393	0.361	0.371	0.386	0.378	0.815	1.630
Mid load	0.341	0.345	0.339	0.350	0.374	0.393	0.815	1.630
Min load	0.338	0.368	0.337	0.347	0.359	0.365	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.15 Test data for Mode 13 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.449	0.476	0.433	0.509	0.499	0.499	-	-
Mid load	0.464	0.427	0.420	0.486	0.474	0.465	-	-
Min load	0.423	0.468	0.405	0.454	0.445	0.459	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	134.36	142.44	129.57	152.31	149.32	149.32	307.00	614.00
Mid load	138.84	127.77	125.68	145.43	141.84	139.14	307.00	614.00
Min load	126.58	140.04	121.19	135.85	133.16	137.35	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.357	0.379	0.345	0.405	0.397	0.397	0.815	1.630
Mid load	0.369	0.340	0.334	0.387	0.377	0.370	0.815	1.630
Min load	0.337	0.373	0.322	0.361	0.354	0.365	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.16 Test data for Mode 14 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.467	0.488	0.452	0.465	0.478	0.468	-	-
Mid load	0.418	0.444	0.423	0.448	0.467	0.489	-	-
Min load	0.441	0.459	0.413	0.433	0.448	0.454	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	139.74	146.03	135.25	139.14	143.03	140.04	307.00	614.00
Mid load	125.08	132.86	126.58	134.06	139.74	146.33	307.00	614.00
Min load	131.96	137.35	123.58	129.57	134.06	135.85	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.372	0.389	0.360	0.370	0.381	0.373	0.815	1.630
Mid load	0.333	0.354	0.337	0.357	0.372	0.389	0.815	1.630
Min load	0.351	0.365	0.329	0.345	0.357	0.361	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.17 Test data for Mode 15 (Ant-A : Mobile 2 (120.5 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.493	0.421	0.468	0.481	0.480	0.469	-	-
Mid load	0.506	0.446	0.507	0.508	0.501	0.423	-	-
Min load	0.485	0.432	0.469	0.447	0.484	0.467	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	147.52	125.98	140.04	143.93	143.63	140.34	307.00	614.00
Mid load	151.41	133.46	151.71	152.01	149.92	126.58	307.00	614.00
Min load	145.13	129.27	140.34	133.76	144.83	139.74	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.393	0.335	0.373	0.383	0.382	0.373	0.815	1.630
Mid load	0.403	0.355	0.404	0.404	0.399	0.337	0.815	1.630
Min load	0.386	0.344	0.373	0.356	0.385	0.372	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.18 Test data for Mode 16 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.484	0.430	0.470	0.485	0.483	0.481	-	-
Mid load	0.514	0.451	0.515	0.519	0.520	0.431	-	-
Min load	0.493	0.451	0.471	0.449	0.487	0.470	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	144.83	128.67	140.64	145.13	144.53	143.93	307.00	614.00
Mid load	153.81	134.95	154.11	155.30	155.60	128.97	307.00	614.00
Min load	147.52	134.95	140.94	134.36	145.73	140.64	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.385	0.342	0.374	0.386	0.385	0.383	0.815	1.630
Mid load	0.409	0.359	0.410	0.413	0.414	0.343	0.815	1.630
Min load	0.393	0.359	0.375	0.357	0.388	0.374	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.19 Test data for Mode 17 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 2 (120.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.438	0.481	0.445	0.408	0.461	0.455	-	-
Mid load	0.459	0.470	0.475	0.492	0.465	0.480	-	-
Min load	0.408	0.438	0.474	0.501	0.440	0.470	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	131.06	143.93	133.16	122.09	137.95	136.15	307.00	614.00
Mid load	137.35	140.64	142.14	147.22	139.14	143.48	307.00	614.00
Min load	122.09	131.06	141.84	149.92	131.66	140.64	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.349	0.383	0.354	0.325	0.367	0.362	0.815	1.630
Mid load	0.365	0.374	0.378	0.392	0.370	0.382	0.815	1.630
Min load	0.325	0.349	0.377	0.399	0.350	0.374	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.20 Test data for Mode 18 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.502	0.465	0.491	0.447	0.432	0.492	-	-
Mid load	0.487	0.509	0.513	0.476	0.485	0.503	-	-
Min load	0.519	0.460	0.479	0.417	0.436	0.486	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	150.22	139.14	146.92	133.76	129.27	147.22	307.00	614.00
Mid load	145.73	152.31	153.51	142.44	145.13	150.51	307.00	614.00
Min load	155.30	137.65	143.33	124.78	130.47	145.43	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.400	0.370	0.391	0.356	0.344	0.392	0.815	1.630
Mid load	0.388	0.405	0.408	0.379	0.386	0.400	0.815	1.630
Min load	0.413	0.366	0.381	0.332	0.347	0.387	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.21 Test data for Mode 19 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.463	0.437	0.481	0.492	0.490	0.488	-	-
Mid load	0.518	0.455	0.519	0.523	0.526	0.435	-	-
Min load	0.496	0.454	0.474	0.452	0.490	0.473	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	138.55	130.77	143.93	147.22	146.62	146.03	307.00	614.00
Mid load	155.00	136.15	155.30	156.50	157.40	130.17	307.00	614.00
Min load	148.42	135.85	141.84	135.25	146.62	141.54	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.369	0.348	0.383	0.392	0.390	0.389	0.815	1.630
Mid load	0.412	0.362	0.413	0.416	0.419	0.346	0.815	1.630
Min load	0.395	0.361	0.377	0.360	0.390	0.377	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.22 Test data for Mode 20 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.442	0.485	0.449	0.412	0.465	0.459	-	-
Mid load	0.469	0.485	0.485	0.501	0.475	0.470	-	-
Min load	0.413	0.443	0.479	0.506	0.442	0.475	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	132.26	145.13	134.36	123.28	139.14	137.35	307.00	614.00
Mid load	140.34	145.13	145.13	149.92	142.14	140.49	307.00	614.00
Min load	123.58	132.56	143.33	151.41	132.26	142.14	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.352	0.386	0.357	0.328	0.370	0.365	0.815	1.630
Mid load	0.373	0.386	0.386	0.399	0.378	0.374	0.815	1.630
Min load	0.329	0.353	0.381	0.403	0.352	0.378	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

4.2.23 Test data for Mode 21 (Ant-A : Mobile 1 (138.0 kHz) / B : Mobile 1 (145.5 kHz) / C : Watch (145.5 kHz))

-. Field strength

TEST MODE	Position A [uT]	Position B [uT]	Position C [uT]	Position D [uT]	Position E [uT]	Position F [uT]	Limits [uT]	Limits [uT]
Max load	0.497	0.478	0.486	0.456	0.427	0.487	-	-
Mid load	0.480	0.502	0.506	0.469	0.478	0.496	-	-
Min load	0.510	0.451	0.470	0.408	0.427	0.477	-	-

-. E field strength

TEST MODE	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	Limits [V/m]	Limits [V/m]
Max load	148.62	143.03	145.33	136.45	127.67	145.63	307.00	614.00
Mid load	143.53	150.12	151.31	140.24	142.93	148.32	307.00	614.00
Min load	152.51	134.85	140.54	121.99	127.67	142.63	307.00	614.00

-. H field strength

TEST MODE	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	Limits [A/m]	Limits [A/m]
Max load	0.395	0.381	0.387	0.363	0.340	0.387	0.815	1.630
Mid load	0.382	0.399	0.403	0.373	0.380	0.395	0.815	1.630
Min load	0.406	0.359	0.374	0.325	0.340	0.380	0.815	1.630

※ Note. Calculation

$$V/m = 10^{((dBuV/m)-120)/20} = 10^{((dBuA/m+51.5)-120)/20} = 10^{((20lg(A/m*10^6)+51.5)-120)/20}$$

$$A/m = uT/1.25$$

5. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
ELT-400	NARDA	Exposure Level Meter	G-0032	Apr. 18, 2022 (1Y)