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TEST REPORT

Eurofins KCTL Co.,Ltd.
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
Tel: 82-70-5008-1021 Fax: 82-505-299-8311
www.kctl.co.kr

eurofins | KCTL

1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2024-05-02

2. Use of Report : Certification

3. Name of Product / Model : Smart Wearable / SM-R866U

4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / Vietnam

5. Date of Test : 2024-05-10 to 2024-05-14 / 2014-06-14

6. Location of Test : ■ Permanent Testing Lab ☐ On Site Testing
(Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

7. Test method used : 47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014

8. FCC ID : A3LSMR866

9. Test Results : Refer to the test result in the test report

Affirmation	Tested by Name : Junggil Ryu (Signature)	Technical Manager Name : Moonseop Cho (Signature)

2024-06-19

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2024-05-17	Originally issued	-
2024-06-18	Added the Test #3 & the variant model name	-
2024-06-19	Added the variant model name	-

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Note. The report No. KR24-SEF0068 is superseded by the report No. KR24-SEF0068-A.
The report No. KR24-SEF0068-A is superseded by the report No. KR24-SEF0068-B.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests
(may be required by the product standard or client)

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

Procedure number, issue date and title:
Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ **Statement not required by the standard or client used for type testing**

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1. Applicant information

Applicant: Samsung Electronics Co., Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Manufacturer: Samsung Electronics Co., Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Factory #1: AG TECH CO.,LTD
Address: Lot G3, Que Vo Industrial Park(Expanded Area), Nam son Ward, Bac Ninh Province, Vietnam

Factory #2: ALMUS VINA
Address: Lot CN07A, Phu Ha Industrial Park, Ha Thach Commune, Phu Tho Town, Phu Tho Province, Vietnam

2. Laboratory information

Address

Eurofins KCTL Co.,Ltd. (Suwon Lab.)

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea

Telephone Number: 82 70 5008 1021

Facsimile Number: 82 505 299 8311

FCC Site Designation No: KR0040

VCCI Registration No.: R-20080, G-20078, C-20059, T-20056

Industry Canada Registration No. : 8035A

KOLAS NO.: KT231

SITE MAP

3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
Chamber 10 m (RE)	22.5 °C / 21.4 °C	33.2 % R.H. / 34.6 % R.H.	-
Shielded room(CE)	21.7 °C / 22.8 °C /	32.7 % R.H. / 33.9 % R.H.	-

Test site

These testing items were performed following locations;

Test item	Test site
Conducted Emission	Shielded Room
Radiated Emission	10 m Chamber

3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.
The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted Emission measurement (Confidence level about 95 %, *k* = 2)		
Shielded Room (CE#1)	9 kHz ~ 150 kHz: 3.58 dB	
	150 kHz ~ 30 MHz: 3.14 dB	
Shielded Room (CE#2)	9 kHz ~ 150 kHz: 3.58 dB	
	150 kHz ~ 30 MHz: 3.14 dB	
Radiated Emission measurement (Confidence level about 95 %, *k* = 2)		
10 m Chamber (4F)	30 MHz ~ 1 000 MHz	3 m: 6.20 dB
		10 m: 5.02 dB
	1 GHz ~ 6 GHz	3 m: 5.48 dB
	6 GHz ~ 18 GHz	3 m: 6.08 dB
	18 GHz ~ 30 GHz	3 m: 5.16 dB
	30 GHz ~ 40 GHz	3 m: 4.70 dB
10 m Chamber (2F)	30 MHz ~ 1 000 MHz	3 m: 5.84 dB
		10 m: 4.54 dB
	1 GHz ~ 6 GHz	3 m: 5.32 dB
	6 GHz ~ 18 GHz	3 m: 6.22 dB

3.3 Measurement Program

These test items were performed by software programs;

Test item	Measurement Program		Used
Conducted Emission	EP5/CE_Ver 5.4.0(TOYO)		☒
Radiated Emission	2F	EP10/RE_Ver 2021.01.000 (TOYO)	☒
	4F	EP5/RE_Ver 5.11.10(TOYO)	

4. Description of EUT

4.1 General information

Declared Hardware Version	REV1.0
Declared Software Version	R866U.001

4.2 Product description

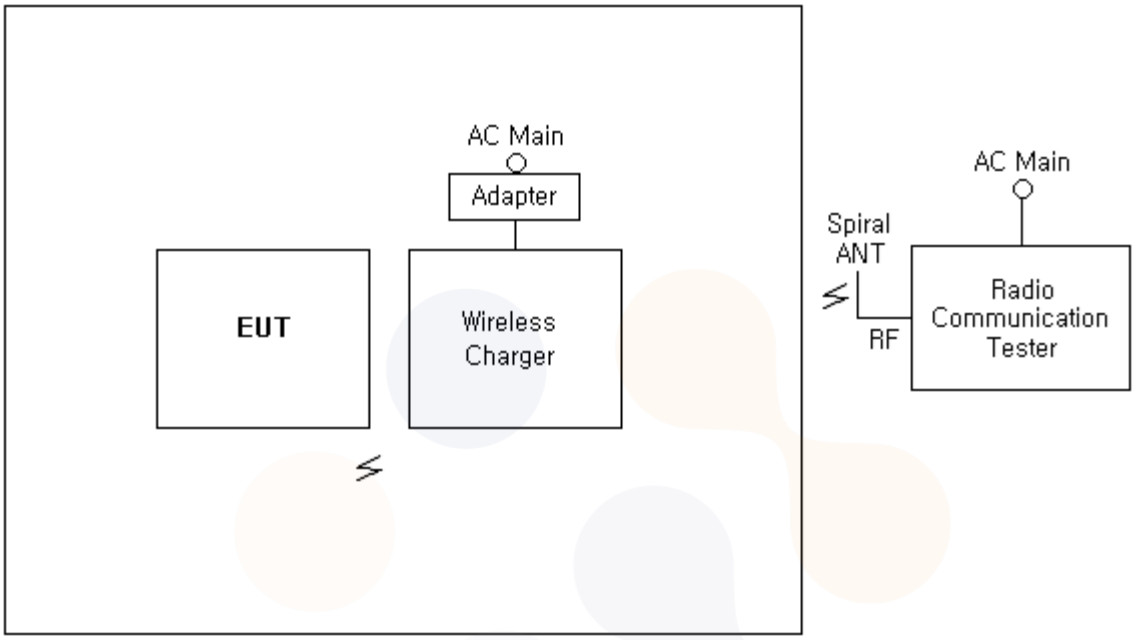
Type of product	Smart Wearable
Model name (Basic)	SM-R866U
Model name (Variant)	SM-R866F
Difference	Software Difference
Serial no	-
Testing voltage	120 V, 60 Hz / DC 3.88 V
Input/Output rating	120 V, 60 Hz (Power supplied from Wireless Charger Adapter) DC 3.88 V (Built in Battery)
Internal clock frequency	Above 108 MHz
RF Frequency	Bluetooth: 2 402 MHz ~ 2 480 MHz WLAN 2.4 GHz: 2 412 MHz ~ 2 472 MHz WLAN 5.0 GHz: 5 180 MHz ~ 5 240 MHz, 5 260 MHz ~ 5 320 MHz, 5 500 MHz ~ 5 720 MHz, 5 745 MHz ~ 5 825 MHz LTE Band 2: 1 850.7 MHz ~ 1 909.3 MHz LTE Band 4: 1 710.7 MHz ~ 1 754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 25: 1 850.7 MHz ~ 1 914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 66: 1 710.7 MHz ~ 1 779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz WCDMA 850: 826.4 MHz ~ 846.6 MHz WCDMA 1700: 1 712.4 MHz ~ 1 752.6 MHz WCDMA 1900: 1 852.4 MHz ~ 1 907.6 MHz
Note	-The following accessory was provided by the manufacturer. -Test #1 proceeds to the Wireless Charger(EP-OR900). -Test #3 proceeds to the Wireless Charger(EP-OR825). 1) Wireless Charger (EP-OR900) - FCC ID : A3LEP-OR900, IC : 649E-EPOR900 2) Wireless Charger (EP-OR825) - FCC ID : A3LEPOR825, IC : 649E-EPOR825

4.3 Auxiliary equipments

Type	Model / Part #	S/N	Manufacturer
Wireless Charger	EP-OR900	-	SAMSUNG
Wireless Charger	EP-OR825	-	SAMSUNG
Adapter	EP-TA800	-	HAEM VINA CO.,Ltd.
Radio Communication Tester	CMW500	-	R&S
Spiral ANT	-	-	-

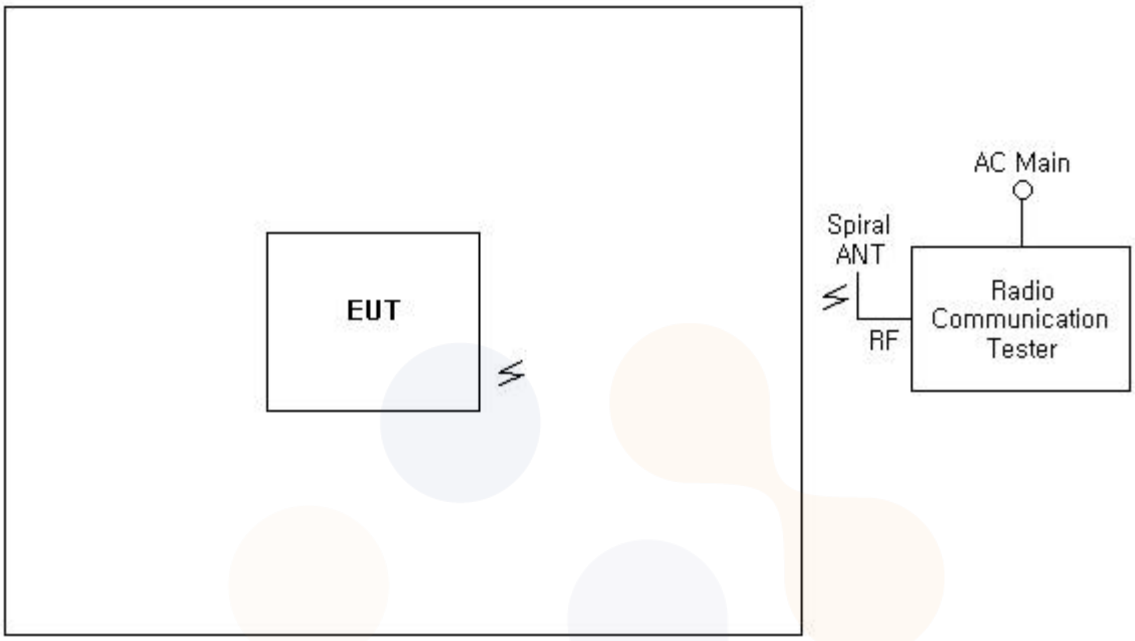
4.4 Test configuration

[Test #1, Test #3]



	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	**EUT**	-	-	-	-	-
2	Wireless Charger	USB	Adapter	-	0.9	Unshield
3	Radio Communication Tester	RF	Spiral ANT	-	3.0	Shield

[Test #2]



	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	**EUT**	-	-	-	-	-
2	Radio Communication Tester	RF	Spiral ANT	-	3.0	Shield

4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
Test #1, Test #3	Wireless Charging(w/TA) + Cellular receiver (LTE 13_Low)
Test #2	Battery + Cellular receiver (LTE 13_Low)

Note 1. All cellular RX bands operating below 960 MHz, including WCDMA, LTE have been investigated with low/middle/high channels. Among the bands LTE 13_Low is the worst mode.

Note 2. It means this device needs to be tested with 3 orientations (x, y and z) and at least the worst case orientation shall be set for final test.
It was determined that X orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in X orientation.

5. Summary of test results

5.1 Summary of EMI emission test results

Applied	Test items	Test method	Result
☒	Conducted Emission	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	Pass
☒	Radiated Emission	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	Pass

6. Test results

6.1 Conducted Emissions

Testing voltage		120 V, 60 Hz		
Test facility		Shielded room (CE#1)		
Date		2024-05-14 / 2024-06-14		
05-14	Temperature (°C)	22.8 °C	Humidity (% R.H.)	33.9 % R.H.
06-14		21.7 °C		32.7 % R.H.
Remarks		Pass		

6.1.1 Limits of conducted emissions measurement

Frequency [MHz]	Class A (dB(μV))		Class B (dB(μV))	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79	66	66 ~ 56[1)]	56 ~ 46[1)]
0.5 ~ 5	73	60	56	46
5 ~ 30	73	60	60	50

[1)] The limit decreases linearly with the logarithm of frequency

6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement.

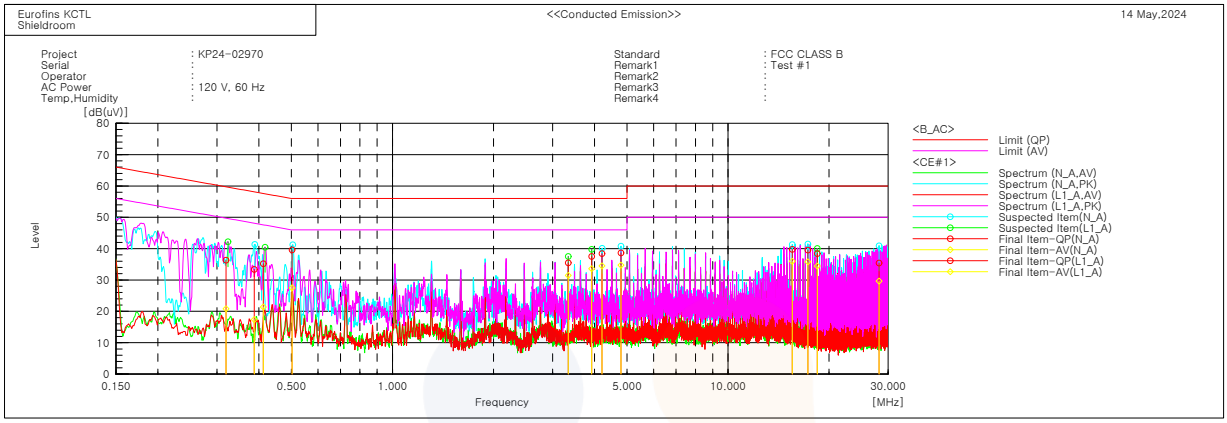
6.1.3 Used equipments

Date: 2024-05-14 / 2024-06-14

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
EMI TEST RECEIVER	ESCI 3	101408	R&S	2024.08.18	☒
TWO-LINE V-NETWORK	ENV216	101358	R&S	2024.09.27	☒
TWO-LINE V-NETWORK	ENV216	101352	R&S	2025.03.27	☐

6.1.4 Conducted emissions measurement result

AC Main



Final Result

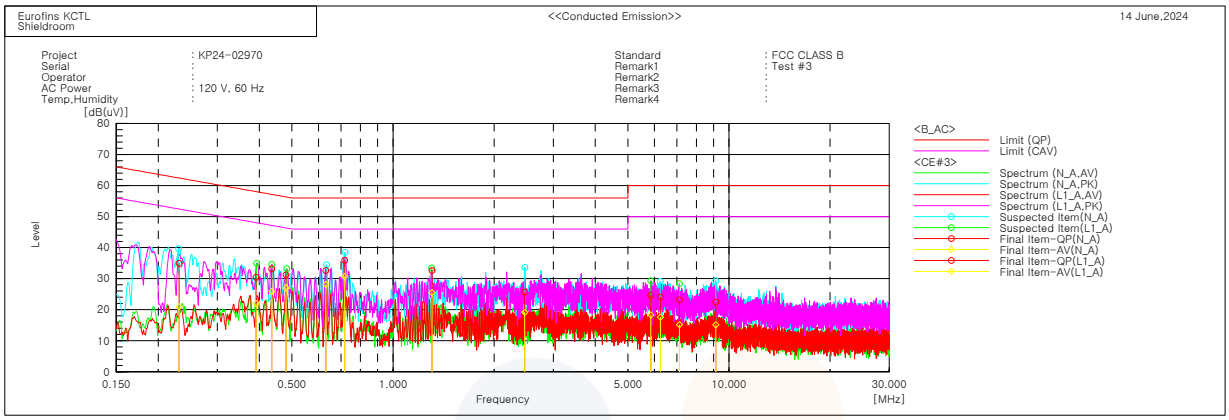
--- N_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.38731	23.2	7.2	10.2	33.4	17.4	58.1	48.1	24.7	30.7
2	0.50228	29.4	17.3	10.2	39.6	27.5	56.0	46.0	16.4	18.5
3	4.21357	28.4	24.5	10.0	38.4	34.5	56.0	46.0	17.6	11.5
4	4.79467	28.6	24.7	10.0	38.6	34.7	56.0	46.0	17.4	11.3
5	15.54676	28.8	25.0	11.0	39.8	36.0	60.0	50.0	20.2	14.0
6	17.291	28.3	24.6	11.2	39.5	35.8	60.0	50.0	20.5	14.2
7	28.19006	23.9	18.1	11.5	35.4	29.6	60.0	50.0	24.6	20.4

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.31921	26.2	10.7	10.1	36.3	20.8	59.7	49.7	23.4	28.9
2	0.41228	25.0	11.2	10.2	35.2	21.4	57.6	47.6	22.4	26.2
3	3.34001	25.6	21.6	9.9	35.5	31.5	56.0	46.0	20.5	14.5
4	3.9237	27.6	23.7	9.9	37.5	33.6	56.0	46.0	18.5	12.4
5	18.45086	27.3	23.4	11.1	38.4	34.5	60.0	50.0	21.6	15.5

AC Main



Final Result

--- N_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.23077	24.8	10.9	10.1	34.9	21.0	62.4	52.4	27.5	31.4
2	0.63091	22.4	18.0	10.2	32.6	28.2	56.0	46.0	23.4	17.8
3	0.71769	25.9	20.7	10.0	35.9	30.7	56.0	46.0	20.1	15.3
4	2.46591	15.8	9.2	9.9	25.7	19.1	56.0	46.0	30.3	26.9
5	6.24884	13.9	7.5	10.1	24.0	17.6	60.0	50.0	36.0	32.4
6	9.14112	11.9	4.7	10.5	22.4	15.2	60.0	50.0	37.6	34.8

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.39101	20.3	11.8	10.2	30.5	22.0	58.0	48.0	27.5	26.0
2	0.43555	22.9	15.6	10.2	33.1	25.8	57.1	47.1	24.0	21.3
3	0.48039	21.0	16.7	10.2	31.2	26.9	56.3	46.3	25.1	19.4
4	1.30631	22.6	15.5	10.0	32.6	25.5	56.0	46.0	23.4	20.5
5	5.85054	14.5	8.2	10.1	24.6	18.3	60.0	50.0	35.4	31.7
6	7.11977	12.9	4.9	10.3	23.2	15.2	60.0	50.0	36.8	34.8

6.2 Radiated Emission

Testing voltage		120 V, 60 Hz / DC 3.88 V		
Test facility		10 m Chamber (4F)		
Test distance		3 m		
Date		2024-05-10 / 2024-06-14		
05-10	Temperature (°C)	22.5 °C	Humidity (% R.H.)	33.2 % R.H.
06-14		21.4 °C		34.6 % R.H.
Remarks		Pass		

6.2.1 Limits of radiated emission measurement

	Class A at 10 m QP(dB(μV/m))		Class B at 3 m QP(dB(μV/m))	
Frequency [MHz]	FCC[1)]	ISED (ICES Issue 7)	FCC[1)]	ISED (ICES Issue 7)
30-88	39.1	40.0	40.0	40.0
88-216	43.5	43.5	43.5	43.5
216-230	46.4	46.4	46.0	46.0
230-960	46.4	47.0	46.0	47.0
Above 960	49.5	49.5	54.0	54.0

- [1)]: Alternative standard: CISPR, Pub. 22
- Test data in this section has been taken against the FCC 15.109(a) or (B) Limit as it is the most stringent limit.
  By complying with more restrictive FCC 15.109 Limit compliance with the ICES-003 Issue 7 limit also demonstrated.

6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.

Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

6.2.3 Used equipments

Date: 2024-05-10 / 2024-06-14

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
EMI TEST RECEIVER	ESCI 7	100872	R&S	2025.01.18	☒
Bilog Antenna	CBL 6112D	37876	TESEQ	2025.05.25	☒
AMPLIFIER	310N	293004	SONOMA	2024.08.18	☒
ATTENUATOR	8491B	MY39270292	AGILENT	-	☒
Antenna Mast	MA4640-XP-ET	-	Innco Systems	-	☒
Turn Table	DT3000-2t	-	Innco Systems	-	☒
DOUBLE RIDGED HORN ANTENNA	3117	00161083	ETS-LINDGREN	2025.02.05	☒
AMPLIFIER	BBV9718C	00138	SCHWARZBECK	2024.10.13	☒
Horn Antenna	3116C	00218560	ETS-LINDGREN	2025.03.27	☒
Amplifier	JS44-18004000-33-8P	2055879	L-3 Narda-MITEQ	2025.03.26	☒
Spectrum Analyzer	FSV40	100988	R&S	2024.07.03	☒
EMI TEST RECEIVER	ESW	103121	R&S	2025.05.13	☒

6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

Result = M.R + C.F(A.F + C.L + 6 dB Att – A.G)

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G = Amplifier Gain

6 dB Att = 6 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 6 dB, A.G 35 dB

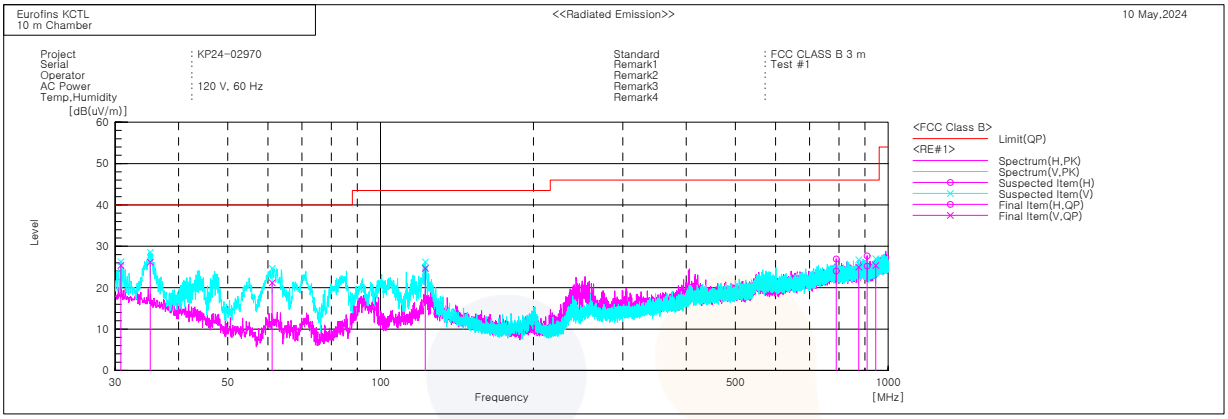
The result is 30 + 12 + 5 + 6 – 35 = 18 dB (μN/m)

Bilog Antenna and ATTENUATOR (6 dB) were calibrated together.

AV = CAV : Abbreviation of CISPR Average

6.2.5 Radiated emission measurement result

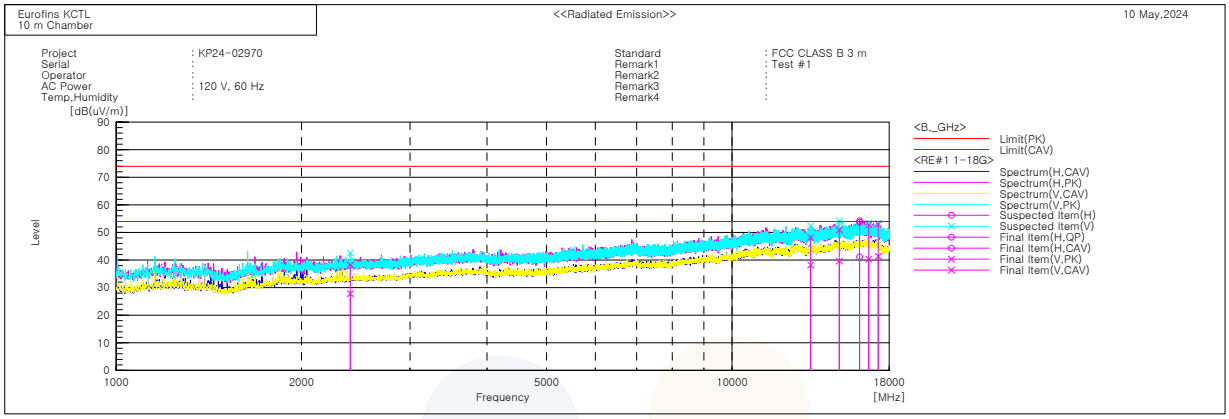
30 MHz ~ 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.776	V	28.7	-3.3	25.4	40.0	14.6	370.0	166.0
2	35.190	V	31.2	-5.0	26.2	40.0	13.8	398.0	323.0
3	61.139	V	35.9	-14.7	21.2	40.0	18.8	110.0	296.0
4	122.446	V	33.1	-8.4	24.7	43.5	18.8	200.0	159.0
5	790.373	H	16.7	7.3	24.0	46.0	22.0	278.0	189.0
6	875.155	V	16.7	8.3	25.0	46.0	21.0	168.0	299.0
7	909.300	H	16.9	8.3	25.2	46.0	20.8	144.0	156.0
8	945.289	V	16.1	9.3	25.4	46.0	20.6	337.0	326.0

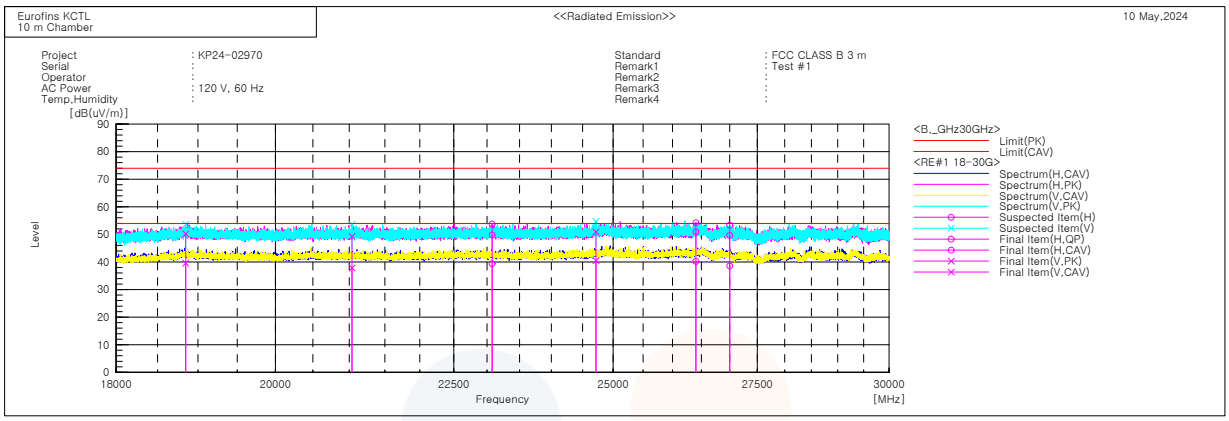
1 GHz ~ 18 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	2400.030	V	37.8	27.4	0.4	38.2	27.8	74.0	54.0	35.8	26.2	337.0	8.0
2	13419.140	V	32.0	22.0	16.2	48.2	38.2	74.0	54.0	25.8	15.8	162.0	90.0
3	14937.280	V	34.4	23.2	16.5	50.9	39.7	74.0	54.0	23.1	14.3	310.0	220.0
4	16113.750	H	36.2	23.7	17.5	53.7	41.2	74.0	54.0	20.3	12.8	110.0	346.0
5	16679.030	V	34.2	21.8	18.5	52.7	40.3	74.0	54.0	21.3	13.7	160.0	132.0
6	17274.060	V	35.2	23.6	17.8	53.0	41.4	74.0	54.0	21.0	12.6	277.0	132.0

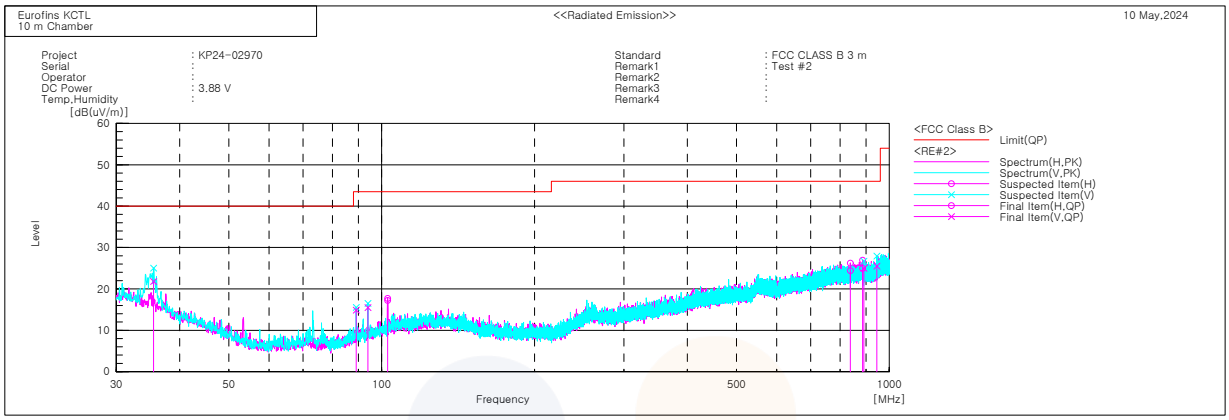
18 GHz ~ 30 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	18847.850	V	45.2	34.6	5.0	50.2	39.6	74.0	54.0	23.8	14.4	155.0	135.0
2	21037.370	V	44.4	33.0	4.9	49.3	37.9	74.0	54.0	24.7	16.1	182.0	40.0
3	23079.830	H	43.5	33.1	6.3	49.8	39.4	74.0	54.0	24.2	14.6	172.0	255.0
4	24717.320	V	44.0	33.6	6.9	50.9	40.5	74.0	54.0	23.1	13.5	164.0	330.0
5	26404.070	H	42.4	31.7	8.5	50.9	40.2	74.0	54.0	23.1	13.8	220.0	155.0
6	27001.060	H	41.0	30.0	8.6	49.6	38.6	74.0	54.0	24.4	15.4	231.0	190.0

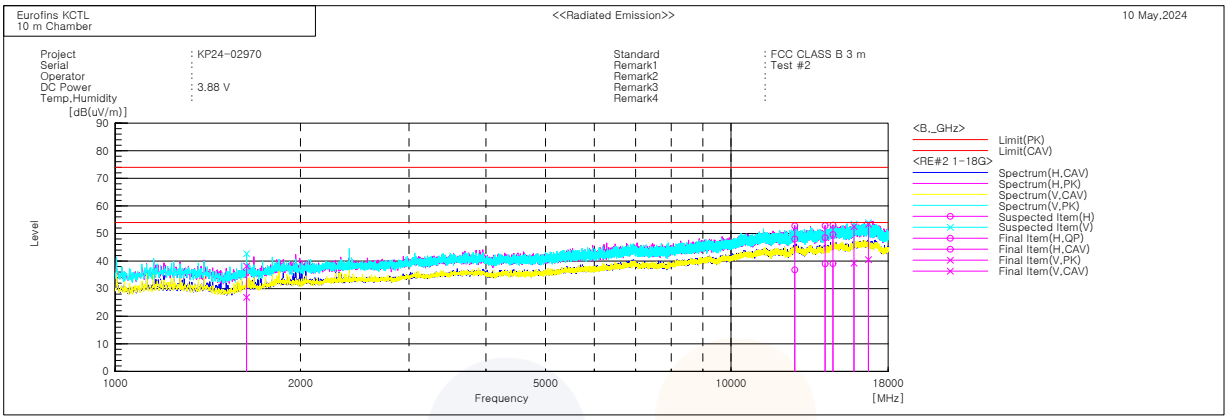
30 MHz ~ 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	35.529	V	27.0	-5.2	21.8	40.0	18.2	387.0	273.0
2	89.124	V	27.2	-12.3	14.9	43.5	28.6	397.0	68.0
3	93.926	V	27.0	-11.5	15.5	43.5	28.0	209.0	226.0
4	102.705	H	27.2	-10.0	17.2	43.5	26.3	300.0	306.0
5	837.905	H	16.7	7.7	24.4	46.0	21.6	378.0	296.0
6	885.777	H	16.5	8.5	25.0	46.0	21.0	337.0	354.0
7	890.918	V	16.3	8.7	25.0	46.0	21.0	360.0	41.0
8	945.095	V	16.2	9.3	25.5	46.0	20.5	390.0	281.0

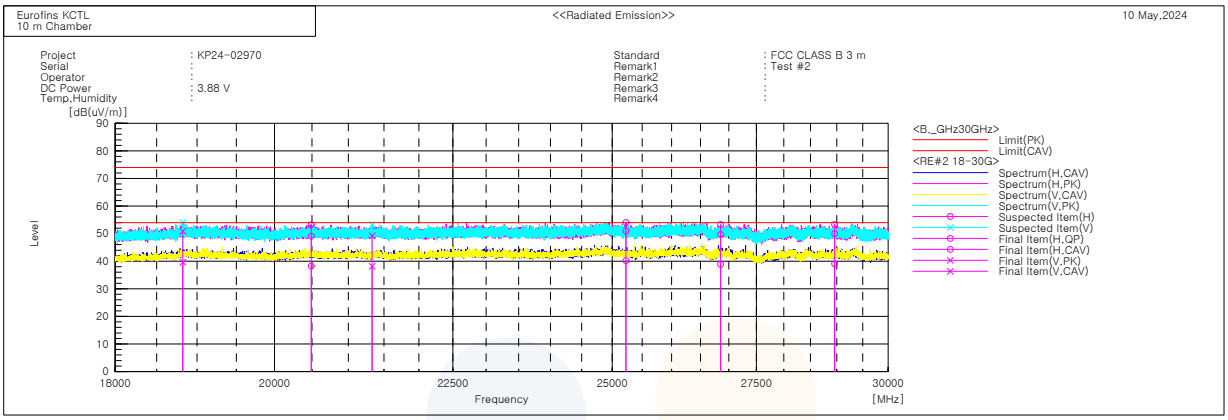
1 GHz ~ 18 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	1634.986	V	41.6	30.3	-3.4	38.2	26.9	74.0	54.0	35.8	27.1	250.0	115.0
2	12694.880	H	31.5	20.3	16.5	48.0	36.8	74.0	54.0	26.0	17.2	205.0	65.0
3	14224.130	H	32.3	22.8	16.2	48.5	39.0	74.0	54.0	25.5	15.0	190.0	85.0
4	14646.580	H	32.9	22.4	16.7	49.6	39.1	74.0	54.0	24.4	14.9	356.0	160.0
5	16721.530	V	35.0	22.1	18.4	53.4	40.5	74.0	54.0	20.6	13.5	115.0	189.0
6	15836.640	V	35.8	22.6	16.7	52.5	39.3	74.0	54.0	21.5	14.7	198.0	287.0

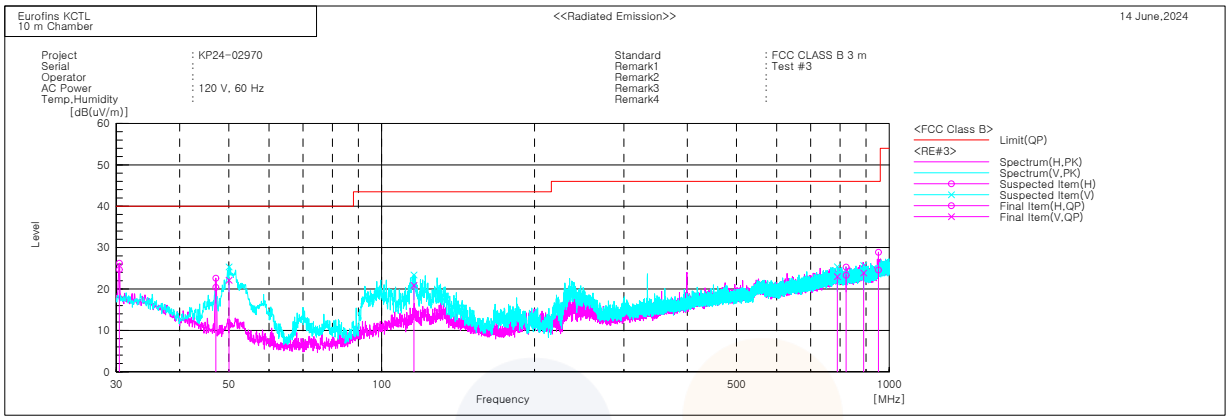
18 GHz ~ 30 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	18822.650	V	45.7	34.5	5.2	50.9	39.7	74.0	54.0	23.1	14.3	130.0	5.0
2	20490.170	H	44.4	33.6	4.7	49.1	38.3	74.0	54.0	24.9	15.7	152.0	303.0
3	21330.760	V	44.1	33.0	5.2	49.3	38.2	74.0	54.0	24.7	15.8	180.0	195.0
4	25227.930	H	43.1	32.4	7.8	50.9	40.2	74.0	54.0	23.1	13.8	170.0	240.0
5	26854.010	H	42.0	31.2	7.7	49.7	38.9	74.0	54.0	24.3	15.1	256.0	315.0
6	28955.930	H	42.5	31.6	7.5	50.0	39.1	74.0	54.0	24.0	14.9	350.0	140.0

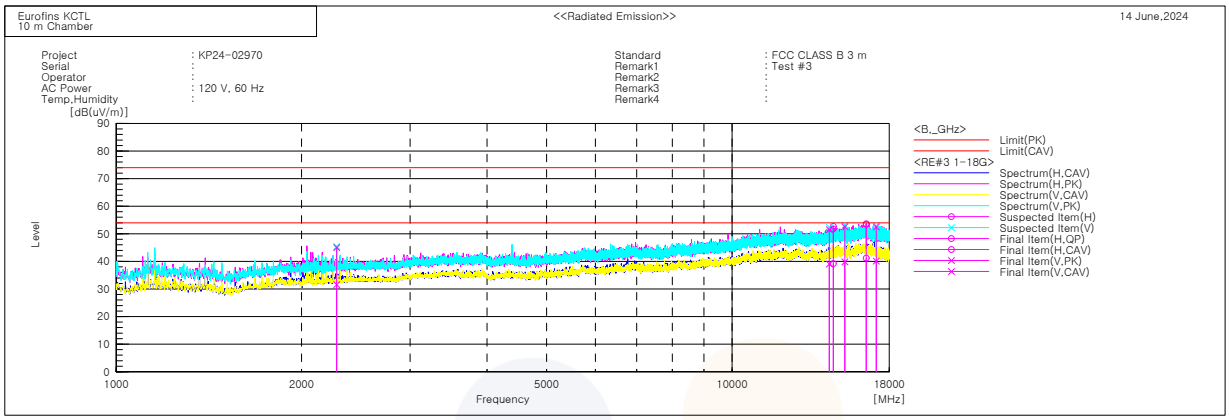
30 MHz ~ 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.437	H	28.0	-3.3	24.7	40.0	15.3	371.0	91.0
2	47.121	H	31.5	-11.1	20.4	40.0	19.6	339.0	186.0
3	50.032	V	34.2	-12.1	22.1	40.0	17.9	110.0	196.0
4	115.752	V	30.0	-9.1	20.9	43.5	22.6	116.0	346.0
5	790.179	V	15.7	7.3	23.0	46.0	23.0	190.0	26.0
6	822.190	H	16.0	7.3	23.3	46.0	22.7	108.0	96.0
7	890.773	V	15.2	8.7	23.9	46.0	22.1	387.0	355.0
8	952.565	H	14.7	9.9	24.6	46.0	21.4	278.0	188.0

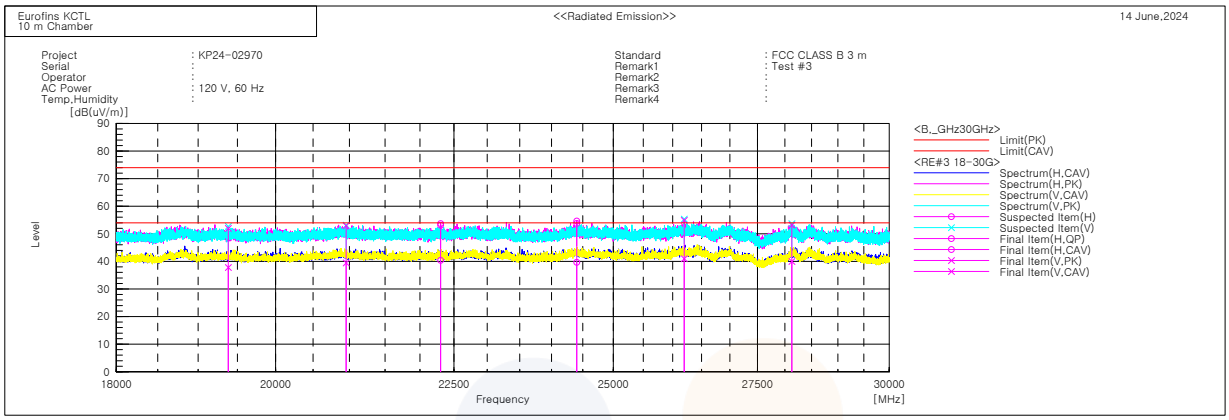
1 GHz ~ 18 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	2279.793	V	45.0	31.6	0.0	45.0	31.6	74.0	54.0	29.0	22.4	198.0	155.0
2	14385.410	V	35.0	22.6	16.5	51.5	39.1	74.0	54.0	22.5	14.9	146.0	306.0
3	14598.870	H	35.2	22.6	16.6	51.8	39.2	74.0	54.0	22.2	14.8	288.0	79.0
4	15246.790	V	35.5	22.8	17.1	52.6	39.9	74.0	54.0	21.4	14.1	378.0	56.0
5	16510.530	H	35.4	23.2	18.0	53.4	41.2	74.0	54.0	20.6	12.8	270.0	319.0
6	17148.060	V	34.0	21.6	18.5	52.5	40.1	74.0	54.0	21.5	13.9	198.0	329.0

18 GHz ~ 30 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	19383.670	V	47.8	33.6	4.2	52.0	37.8	74.0	54.0	22.0	16.2	378.0	109.0
2	20953.350	V	48.0	34.6	4.9	52.9	39.5	74.0	54.0	21.1	14.5	190.0	108.0
3	22302.810	H	47.2	34.5	5.9	53.1	40.4	74.0	54.0	20.9	13.6	160.0	110.0
4	24404.120	H	46.6	32.5	7.2	53.8	39.7	74.0	54.0	20.2	14.3	221.0	249.0
5	26198.810	V	46.6	32.7	8.3	54.9	41.0	74.0	54.0	19.1	13.0	300.0	342.0
6	28130.910	V	46.0	32.8	7.2	53.2	40.0	74.0	54.0	20.8	14.0	110.0	156.0