## **TEST REPORT**



**CTK Co., Ltd.** (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501

Report No.: CTK-2023-00486-1 Page (1) / (27) Pages

#### 1. Applicant

- ${\scriptstyle \circ}$  Name : SOLUM CO., LTD
- Address : 4,5,6th F, 357, Guseong-ro, Giheung-gu, Yongin-si, Gyeonggi-do,

Korea (Zip 16914)

• Date of Receipt : 2022-12-19

#### 2. Manufacturer

- Name : SOLUM CO., LTD
- Address: 4,5,6th F, 357, Guseong-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Korea (Zip 16914)

#### 3. Factory

- Name : SOLUM VINA CO., LTD
- Address : Plot B3, Ba Thien 2 Industrial park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, 281200.,Peple's Republic of Vietnam
- 4. Use of Report : For FCC Certification & Canadian Certification
- 5. Test Sample / Model : ESL Label / EL029F4WRC
- 6. Date of Test : 2023-01-18 to 2023-02-28
- 7. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.247,

ANSI C63.10-2013, RSS-247, RSS-Gen

- **8. Testing Environment :** Temp.: (23 ± 1) °C, Humidity: (51 ± 3) % R.H.
- 9. Test Results : Compliance
- 10. Location of Test : 🛛 Permanent Testing Lab 🛛 🗌 On Site Testing

(Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, 17141 Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

	Tested by	Technical Manager
Approval	Bong-seok Kim: (Signature)	Young-taek Lee: (Signature)

Remark. This report is not related to KOLAS accreditation and relevant regulation. 2023-03-01

## CTK Co., Ltd.



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#### **REPORT REVISION HISTORY**

Date	Revision	Page No
2023-03-01	Issued (CTK-2023-00486)	all
2023-03-01	Issued (CTK-2023-00486-1) -Add variant model	all

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APPENDIX A – Test Equipment Used For Tests



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#### **1. General Product Description**

#### **1.1 Applicant Information**

Company	SOLUM CO.,LTD.	
Contact Point 4,5,6th F, 357, Guseong-ro, Giheung-gu, Gyeonggi-do Republic of Korea		
	Name : Ki Dong Lee	
Contact Person	E-mail : kdlee007@solu-m.com	
	Tel : +82-31-8006-7677	

#### **1.2 Product Information**

FCC ID	2AFWN-EL029F4WRC	
IC	22800-EL029F4WRC	
Product Description	ESL Label	
Model name	EL029F4WRC	
Variant Model name	EL029F4BRC, EL029F4WYC, EL029F4BYC (There is no technological difference between the basic model and the variant model, the addition of the model name for marketing purposes.)	
Operating Frequency 2 401 MHz - 2 480 MHz		
RF Output Power	0.23 dBm(1.054 mW)	
Antenna Specification	Antenna type : PCB Antenna Peak Gain : -2.33 dBi	
Number of channels	80	
Channel Spacing	1 MHz	
Type of Modulation	GFSK	
Power Source	DC 3.0 V(Battery)	
FVIN	V1.0	
Test Software(Version)	Tera term (Version 4.8.5)	

#### 1.3 Peripheral Devices

-For Conducted Measurement and Radiated Measurement

Device	Manufacturer	Model No.	Serial No.	
Notebook	HP Inc.	HP Probook 455 G7	5CD0234DWM	
AC Adapter	HP Inc.	PPP012D-S	677777-003	



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#### 2. Facility and Accreditations 2.1 Laboratory Accreditations and Listings

# CountryAgencyRegistration NumberUSAFCC805871CANADAISED8737AKOREANRRAKR0025

#### 2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



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### 3. Test Specifications

#### 3.1 Standards

Section in FCC	Section in RSS	Requirement(s)	Status (Note 1)	Test Condition	
15.247(a)	RSS-247 5.2(a)	6 dB Bandwidth	С		
15.247(e)	RSS-247 5.2(b)	Transmitter power spectral density	С	Conducted	
15.247(b)	RSS-247 5.4(d)	Maximum peak conducted output power	С	Conducted	
15.247(d)	RSS-247 5.5	Unwanted emission	С		
15.209	RSS-Gen 6.13	Transmitter emission	С	Radiated	
15.207(a)	RSS-Gen 8.8	AC Conducted Emission	NA(Note 3)	Line Conducted	
<u>Note 1</u> : C=Complies	Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<u>Note 2</u> : The data in t	Note 2: The data in this test report are traceable to the national or international standards.				
<i>Note 3</i> : The equipment is operated on battery power only.					
Note 4: The sample was tested according to the following specification: FCC Part 15.247, ANSI C63.10-2013, RSS-247 Issue 2, RSS-Gen Issue 5.					
Note 5: The tests were performed according to the method of measurements prescribed in KDB No.558074.					
<u>Note 6</u> : This equipment has been tested in a 100% duty cycle transmission situation using applicant supplied software. KDB No.558074.					

#### 3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments. During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests. The results are only attached worst cases.

#### Test Frequency

Lowest channel	Middle channel	Highest channel	
2 401 MHz	2 440 MHz	2 480 MHz	

#### 3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter. Coverage factor k = 2, Confidence levels of 95 %

Description	Uncertainty	
Conducted RF Output Power	1.5 dB (C.L. : Approx. 95%, <i>k</i> =2)	
Occupied Bandwidth	0.1 MHz (C.L. : Approx. 95%, <i>k</i> =2)	
Unwanted Emission(conducted)	3.0 dB (C.L. : Approx. 95%, <i>k</i> =2)	
Radiated Emissions (f $\leq$ 1 GHz)	4.0 dB (C.L. : Approx. 95%, <i>k</i> =2)	
Radiated Emissions (f > 1 GHz)	5.0 dB (C.L. : Approx. 95%, <i>k</i> =2)	



#### 4. Technical Characteristic Test

#### 4.1 6dB Bandwidth & 99% Bandwidth

#### Test Procedures (ANSI C63.10-2013 6.9.2)

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Test Procedures (ANSI C63.10-2013 6.9.3)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz(6dB Bandwidth),
- b) VBW  $\geq$  3 x RBW
- 30 kHz(99% Bandwidth)

d) Trace mode = Max hold

e) Sweep = auto couple

c) Detector = peak

- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Limit :

6 dB Bandwidth > 500 kHz

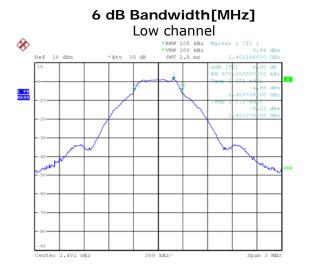
#### Test Data :

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	99 % Bandwidth [MHz]	Result
Low	2 401	0.570	0.954	Complies
Middle	2 440	0.570	0.954	Complies
High	2 480	0.570	0.954	Complies

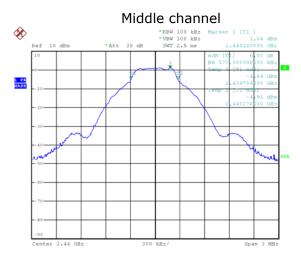
See next pages for actual measured spectrum plots.



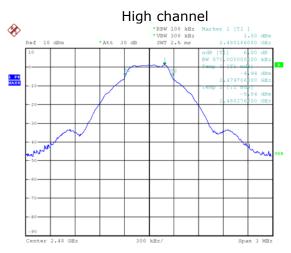
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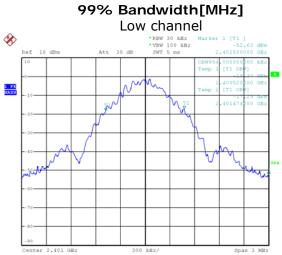
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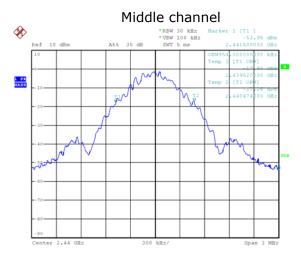
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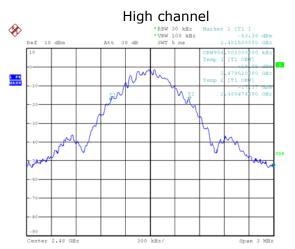
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#### 4.2 Maximum peak Conducted Output Power

#### Test Procedures(ANSI C63.10-2013 11.9.1)

The following procedure can be used when the maximum available RBW of the instrument is less than the DTS bandwidth:

#### Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW  $\geq$  DTS Bandwidth

c) span  $\geq$  3 x RBW

d) Sweep time = auto couple

b) VBW  $\geq$  3 x RBW

e) Detector = peak

f) Trace mode= max hold

- g) Allow trace to fully stabilize
- h) Use peak marker function to determine the peak amplitude level.

#### Limit :

Maximum Output Power < 1 W (30 dBm)

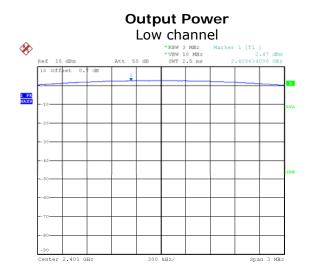
#### Test Data :

Channel	Frequency [MHz]	Measurement data [dBm]	Limit [dBm]	Result
Low	2 401	2.47	30	Complies
Middle	2 440	2.56	30	Complies
High	2 480	2.56	30	Complies

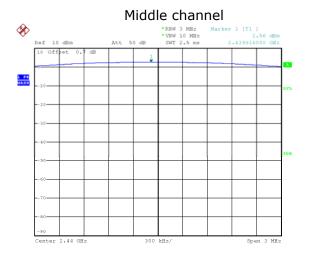
See next pages for actual measured spectrum plots.



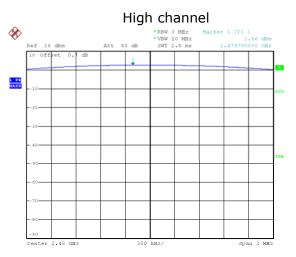
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#### 4.3 Power Spectral Density

#### Test Procedures (ANSI C63.10-2013 11.10.2)

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW : 3 kHz  $\leq$  RBW  $\leq$  100 kHz

b) VBW ≥ 3 x RBW

c) span  $\geq$  1.5 x DTS bandwidth

d) Sweep time = auto couplef) Trace mode= max hold

g) Allow trace to fully stabilize

e) Detector = peak

h) Use the peak marker function to determine the maximum amplitude level within the RBW.

#### Limit :

Power Spectral Density < 8 dBm @ 3 kHz BW

#### Test Data :

Channel	Frequency [MHz]	Measurement data [dBm]	Limit [dBm]	Result
Low	2 401	-10.36	8	Complies
Middle	2 440	-10.30	8	Complies
High	2 480	-10.26	8	Complies

See next pages for actual measured spectrum plots.

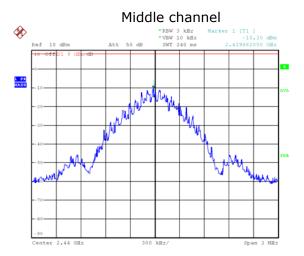


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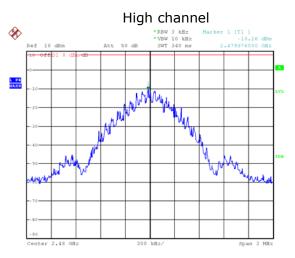


Power Spectral Density Low channel

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#### 4.4 Band Edge & Conducted Spurious emission

#### Test Procedures (ANSI C63.10-2013 11.11.3)

The Unwanted emission from the EUT were measured according to the dictates PKPSD measurement procedure in section 11.11 of ANSI C63.10-2013.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

#### Test Settings:

Center frequency = the highest, middle and the lowest channels

a) RBW = 100 kHz

b) VBW  $\geq$  3 x RBW

c) Detector = peak

d) Sweep time = auto couple

- e) Trace mode= max hold
- f) Allow trace to fully stabilize
- g) Use the peak marker function to determine the maximum amplitude level.

#### Limit :

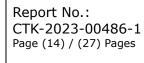
Emission level < 20 dBc

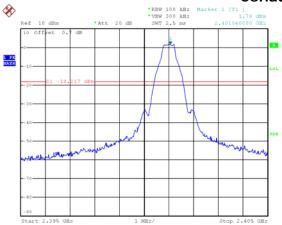
#### **Test results: Complies**

- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest in-band spectral density. Therefore the applying equipment meets the requirement.

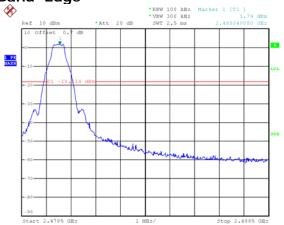
See next pages for actual measured spectrum plots.







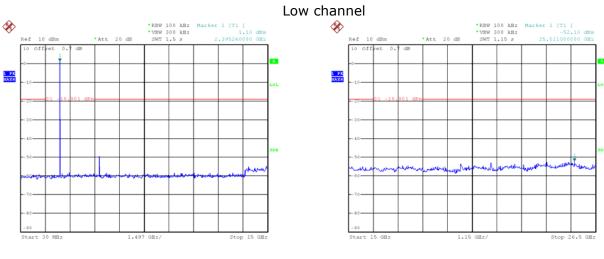
#### Conducted Band–Edge



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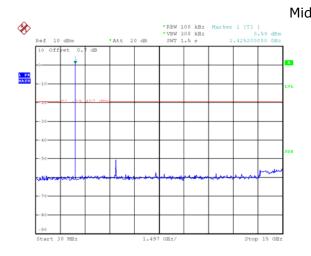
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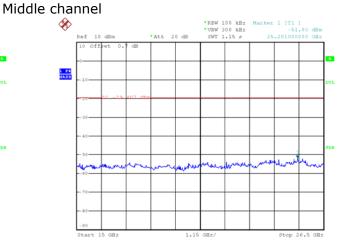


#### **Conducted Spurious Emission**

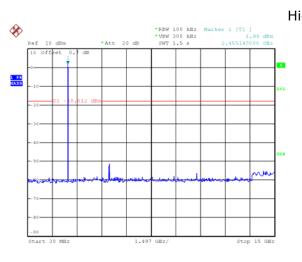
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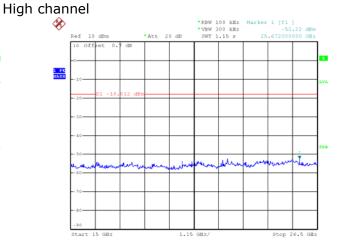
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#### [QF-QP15-07] Ver.01



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#### 4.5 Radiated Emission

#### Test Location

 $\boxtimes$  10 m SAC (test distance :  $\square$  10 m,  $\boxtimes$  3 m)

 $\boxtimes$  3 m SAC (test distance : 3 m)

#### **Test Procedures**

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

#### **Instrument Settings**

Frequency Range = 9 kHz  $\sim$  25 GHz (2.4 GHz 10<sup>th</sup> harmonic)

- a) RBW = 1 MHz for f  $\geq\,$  1 GHz, 100 kHz for f < 1 GHz, 9 kHz for f < 30 MHz
- b) VBW  $\geq$  RBW
- c) Sweep time = auto couple



#### Limit :

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
<sup>1</sup> 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475- 156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	<sup>2</sup> Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

#### Table 1. Restricted Frequency Bands

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 2 Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Frequency(MHz)	Field Strength (uA/m)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measurement Distance (meters)
0.009-0.490	6.37/F (F in kHz)	2400/F(kHz)	48.5 - 13.8	300
0.490-1.705	63.7/F (F in kHz)	24000/F(kHz)	33.8 - 23	30
1.705-30	0.08	30	29.5	30
30-88	-	100**	40	3
88-216	-	150**	43.5	3
216-960	-	200**	46	3
Above 960	-	500	54	3

\*\* Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

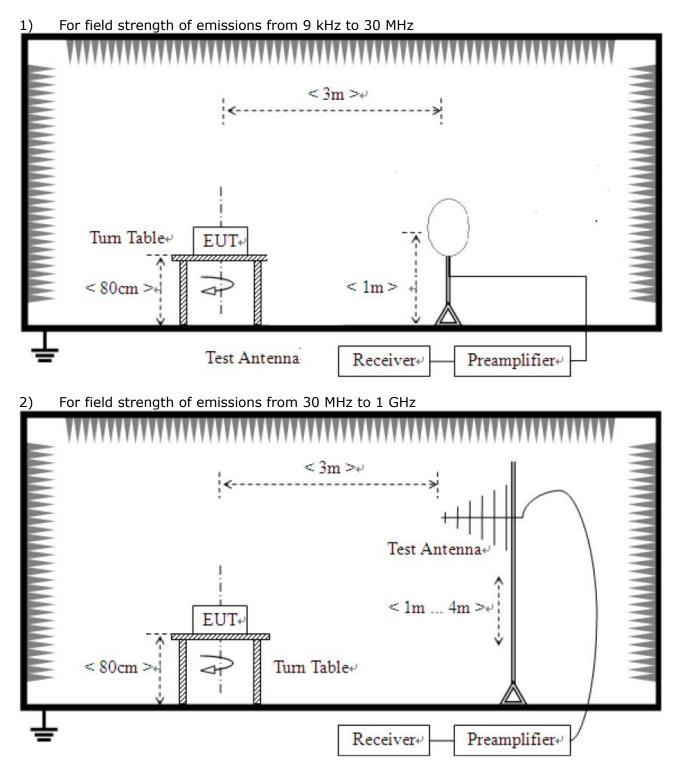
Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) For measurement above 1GHz, the resolution bandwidth is set to 1 MHz and video bandwidth is set to 3 MHz and detector is peak for peak measurement and detector RMS and Trace Averaging type for average measurement.



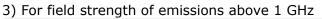
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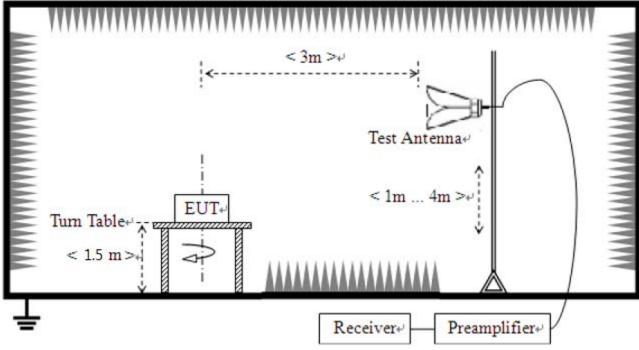
#### Test Setup:





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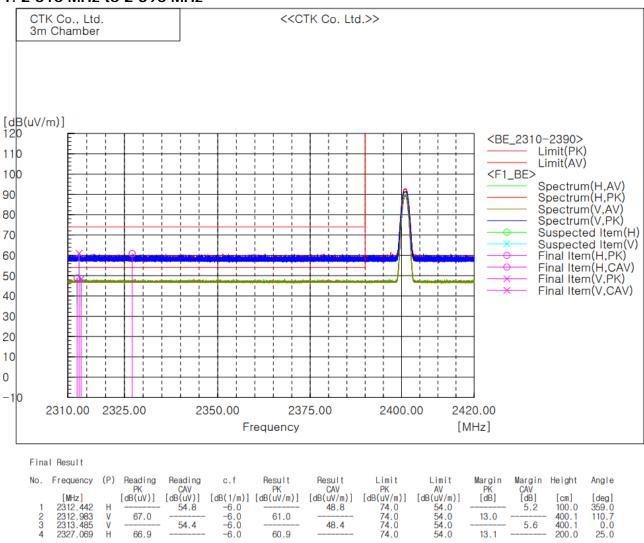






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#### **Test results** 1) Restricted Frequency Bands 1. 2 310 MHz to 2 390 MHz



74.0 74.0 74.0 74.0

48.8

48.4

[dB(uV)]

67.0

66.9

-6.0 -6.0 -6.0

-6.0

54.4

61.0

60.9

H V V

Н

2327.069

1 234 [cm] 100.0

400.1

200.0

25.0

5.2

5.6

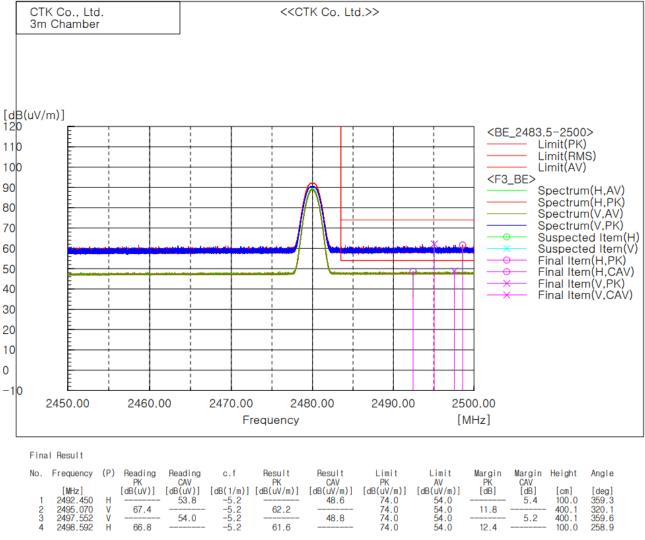
13.0

13.1



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#### 2. 2 483.5 MHz – 2 500 MHz



#### Remark :

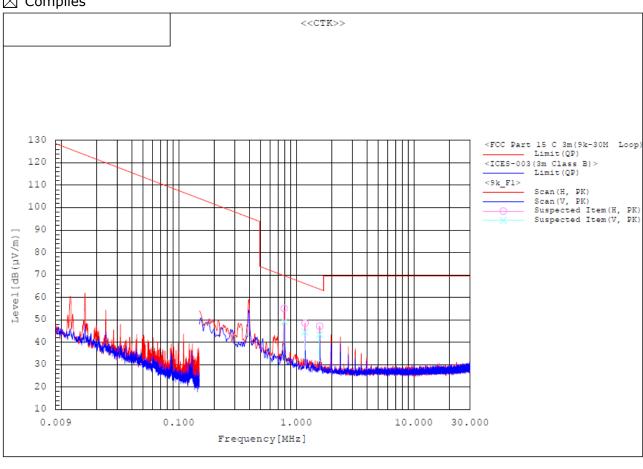
- 1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Z axis) and the worst case was recorded.
- 2. Result = Reading + c.f(correction factor)
- 3. Correction factor = Antenna factor + Cable loss Amp Gain



#### 2) Spurious 1. 9 kHz to 30 MHz

#### Test mode : Transmit, Lowest Channel(Worst case)

## The requirements are: $\square$ Complies



No.	Frequency	Pol	Reading PK	c.f	Result PK	Limit QP	Margin QP-PK	Height	Angle
	[MHz]		[dB(µV)]	[dB(1/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	[cm] [o	deg]
1	0.789	н	30.1	25.0	55.1	69.7	14.6	100.0	109.6
2	0.792	v	24.2	25.0	49.2	69.6	20.4	100.0	148.8
3	1.186	V	19.6	25.0	44.6	66.1	21.5	100.0	6.5
4	1.189	н	23.5	25.0	48.5	66.1	17.6	100.0	82.5
5	1.580	н	22.2	25.0	47.2	63.7	16.5	100.0	106.8
6	1.583	v	18.4	25.0	43.4	63.6	20.2	100.0	148.8

#### Note :

Spectrum Selection

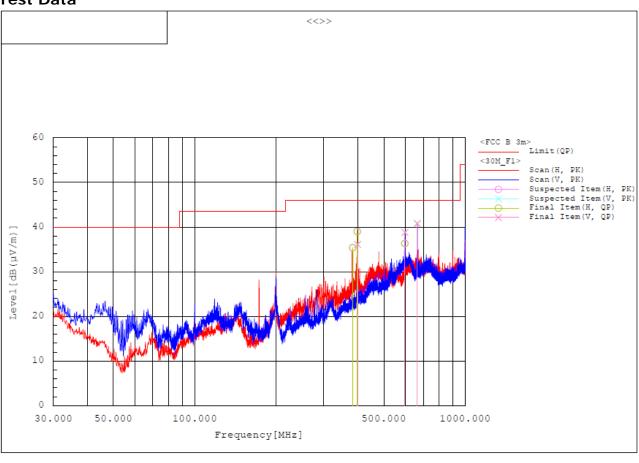
- 1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Z axis) and the worst case was recorded.
- 2. Result = Reading + c.f(correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- \* Reading data is the peak value.



#### 2. 30 MHz to 1 GHz

Test mode : Transmit, Lowest Channel(Worst case)

The requirements are: Complies **Test Data** 



No.	Frequency	Po1	Reading	c.f	Result	Limit	Margin	Height	Angle
	requency		QP		QP	QP	QP		migre
	[MHz]		[dB(µV)]	[dB(1/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	[cm] [	deg]
1	383.468	н	42.8	-7.4	35.4	46.0	10.6	100.6	295.
2	398.794	н	45.9	-6.9	39.0	46.0	7.0	100.6	136.
3	399.861	v	42.9	-6.8	36.1	46.0	9.9	100.0	359.
4	597.741	н	38.1	-1.8	36.3	46.0	9.7	400.0	101.
5	598.614	v	40.6	-1.8	38.8	46.0	7.2	100.0	359.
6	665.059	v	41.2	-0.4	40.8	46.0	5.2	100.0	3.

#### Remark :

- 1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Z axis) and the worst case was recorded.
- 2. Result = Reading + c.f(Correction factor)
- 3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp Gain
- \* Reading data is the peak value.



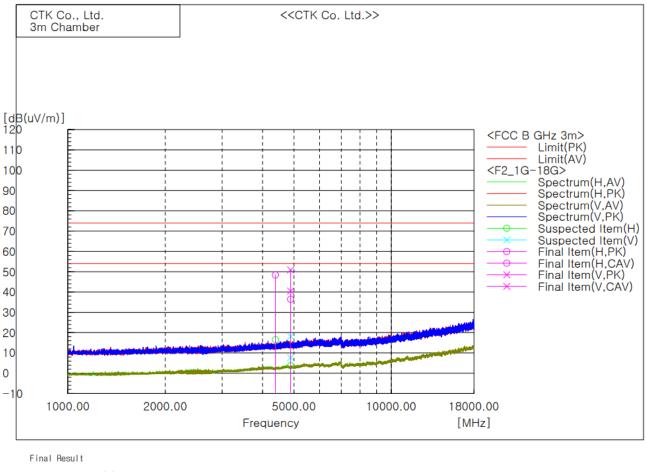
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#### 3. 1 GHz to 18 GHz

Test mode : Transmit, Middle Channel (Worst case)

The requirements are:  $\square$  Complies

#### Test Data



No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle
			PK	CAV		PK	CAV	PK	AV	PK	CAV		
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]
1	4381.775	н	47.6		0.8	48.4		74.0	54.0	25.6		200.1	145.9
2	4879.555	V	48.9		2.0	50.9		74.0	54.0	23.1		99.9	125.8
3	4880.235	н		34.4	2.1		36.5	74.0	54.0		17.5	400.2	75.6
4	4880.235	V		38.4	2.1		40.5	74.0	54.0		13.5	199.7	350.5

#### Remarks

- 1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(correction factor)
- 3. Correction factor = Antenna factor + Cable loss Amp Gain



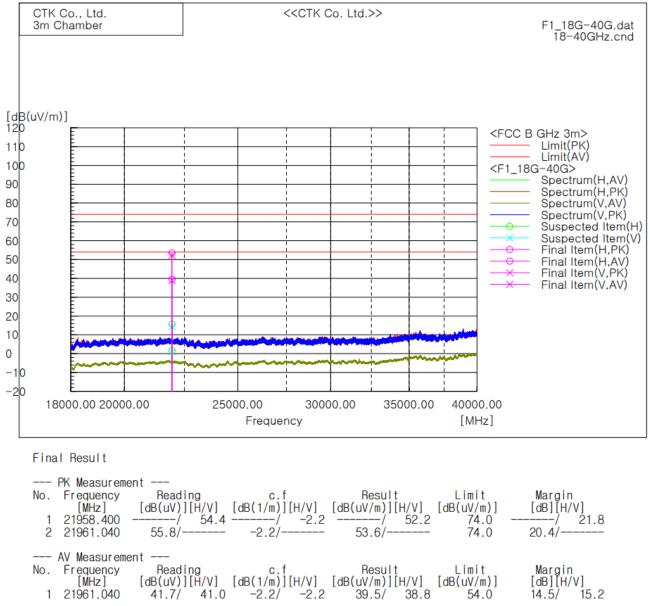
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#### 4. 18 GHz to 40 GHz

#### Test mode : Transmit, Low Channel(Worst case)

The requirements are:  $\square$  Complies

#### Test Data



#### Remarks

- 1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
- 2. Result = Reading + c.f(correction factor)
- 3. Correction factor = Antenna factor + Cable loss Amp Gain



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#### **APPENDIX A – Test Equipment Used For Tests**

No.	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	SPECTRUM ANALYZER	R&S	FSP-30	100994	2022-10-13	2023-10-13
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2022-03-25	2023-03-25
3	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2022-05-04	2023-05-04
4	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2022-04-15	2024-04-15
5	Bilog Antenna	TESEQ	CBL6111D	60654	2021-09-03	2023-09-03
6	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2022-08-10	2023-08-10
7	ATTENUATOR	PASTERNACK	PE7AP006-06	L2021050400002 3	2022-08-10	2023-08-10
8	Preamplifier	Agilent	8449B	3008A00620	2022-05-10	2023-05-10
9	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2022-04-14	2023-04-14
10	Horn Antenna	SCHWARZBECK	BBHA9170	01153	2022-10-31	2023-10-31
11	Low Noise Amplifier	TESTEK	TK-PA1840H	210124-L	2022-11-09	2023-11-09
12	Band Reject Filter	Micro Tronics	BRM50702	G233	2022-01-07	2023-01-07
13	Spectrum Analyzer	Rohde & Schwarz	FSV40	101574	2022-01-12	2023-01-12
14	Dual-Tracking DC Power Supply	Topward Electric Instruments Co.,Ltd.	6303D	711196	2022-04-18	2023-04-18
15	DC Power Supply	Agilent	E3632A	MY40008023	2022-04-18	2023-04-18

No.	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable(conducted)	Junkosha Inc.	MWX221	20085240	2022-06-02
2	RF Cable (9kHz-1GHz Radiated)	Canare Corporation	L-5D2W	N/A	2022-09-21
3	RF Cable (9kHz-1GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2022-09-21
4	RF Cable (1GHz-18GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2022-04-14
5	RF Cable (1GHz-18GHz Radiated)	Rosenberger	NONE	1520.9927.00	2022-04-14
6	RF Cable (1GHz-18GHz Radiated)	Sensorview Co., LTD	9S18	TPC2204060007	2022-04-14
7	RF Cable (18GHz-26.5GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2372/2	2022-04-14
8	RF Cable (18GHz-26.5GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY073/2	2022-04-14
9	RF Cable (18GHz-26.5GHz Radiated)	Sensorview Co., LTD	9540	TP210713-001	2022-04-14

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