





# TEST REPORT

<b>Eurofins KCTL Co.,Ltd.</b> 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 <a href="http://www.kctl.co.kr">www.kctl.co.kr</a>	Report No.: KR22-SRF0191-A Page (1) of (18)	   <b>KCTL</b>
<b>1. Client</b>		
◦ Name : THINKWARE CORPORATION ◦ Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea ◦ Date of Receipt : 2022-08-22		
<b>2. Use of Report</b> : Certification		
<b>3. Name of Product / Model</b> : BCQH-500 / BCQH-500		
<b>4. Manufacturer / Country of Origin</b> : THINKWARE CORPORATION / Korea		
<b>5. FCC ID</b> : 2ADTG-BCQH500		
<b>6. IC Certificate No.</b> : 12594A-BCQH500		
<b>7. Date of Test</b> : 2022-09-23 to 2022-10-04		
<b>8. Location of Test</b> : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)		
<b>9. Test method used</b> : FCC Part 15 Subpart C, 15.249 RSS-210 Issue 10 April 2020 RSS-Gen Issue 5 February 2021		
<b>10. Test Result</b> : Refer to the test result in the test report		
Affirmation	Tested by  Name : Minki Kim (Signature)	Technical Manager  Name : Heesu Ahn (Signature)
2022-11-10		
<b>Eurofins KCTL Co.,Ltd.</b>		
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## REPORT REVISION HISTORY

Date	Revision	Page No
2022-11-07	Originally issued	-
2022-11-10	Updated	1, 16

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## 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. General information

Client : THINKWARE CORPORATION  
 Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea  
 Manufacturer : THINKWARE CORPORATION  
 Address : A, 9FL., Samwhan Hipex, 240, Pangyoyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea  
 Laboratory : Eurofins KCTL Co.,Ltd.  
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea  
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132  
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056  
 CAB Identifier: KR0040  
 ISED Number: 8035A  
 KOLAS No.: KT231

## 2. Device information


Equipment under test : BCQH-500  
 Model : BCQH-500  
 Modulation technique : CW  
 Number of channels : 1 ch  
 Power source : DC 3.3 V  
 Antenna specification : PCB Array Antenna  
 Antenna gain : 2 dBi  
 Frequency range : 24.05 GHz ~ 24.25 GHz  
 FVIN : V3.0  
 Software version : V3.0  
 Hardware version : V3.0  
 Operation temperature : -10 °C ~ 60 °C

### 2.1. Frequency/channel operations

24 GHz Radar

Ch.	Frequency (GHz)
0	24.15

Table 2.1.1 24 GHz Radar

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### 3. Antenna requirement

#### **Requirement of FCC part section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **Requirement of RSS-Gen Section 6.8:**

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

- The transmitter has permanently attached PCB Array Antenna on board.
- The E.U.T Complies with the requirement of §15.203, §15.249.

#### 4. Summary of tests

FCC Part section(s)	IC Rule Referene	Parameter	Test Condition	Test results
15.215(c)	-	20 dB Bandwidth	Radiated	Pass
-	RSS-Gen (6.7)	Occupied Bandwidth		Pass
15.249 (a),(d),(e)	RSS-210 Annex B.10	Field strength of fundamental & harmonic		Pass
15.207(a)	RSS-Gen (8.8)	AC Conducted Emissions		N/A

#### Notes:


1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
3. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.
4. The test procedure(s) in this report were performed in accordance as following.
  - ♦ ANSI C63.10-2013

#### 5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty ( $\pm$ )	
Conducted RF power	0.9 dB	
Conducted spurious emissions	1.1 dB	
Radiated spurious emissions	9 kHz ~ 30 MHz	2.4 dB
	30 MHz ~ 1 000 MHz	2.3 dB
	1 000 MHz ~ 18 000 MHz	5.6 dB
	Above 18 000 GHz	5.7 dB
Conducted emissions	9 kHz ~ 150 kHz	1.6 dB
	150 kHz ~ 30 MHz	1.7 dB

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## 6. Test results

### 6.1. 20 dB Bandwidth & 99% Bandwidth

#### Limit

According to §15.215(c) and RSS-Gen(6.7), For Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

#### Test procedure

ANSI C63.10 – Section 6.9.2, 6.9.3

#### **Occupied bandwidth (or 20 dB emission bandwidth)**

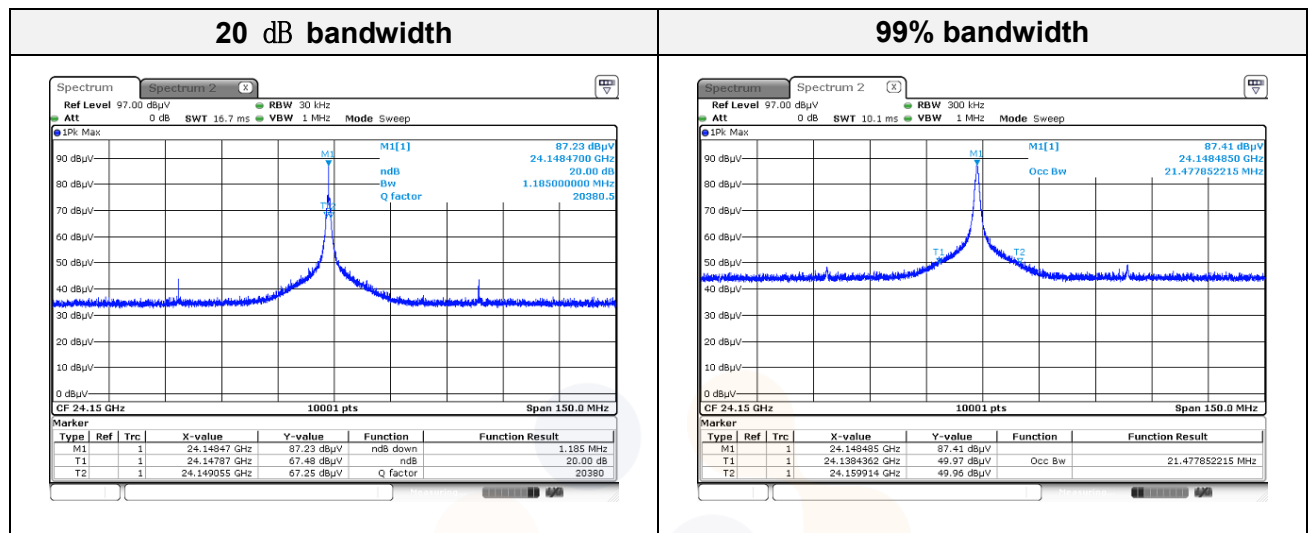
The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band

#### **Occupied bandwidth (or 99% emission bandwidth)**

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. The following procedure shall be used for measuring 99% power bandwidth

## Test results

Frequency(GHz)	20 dB bandwidth(MHz)	99% bandwidth(MHz)
24.15	1.19	21.48

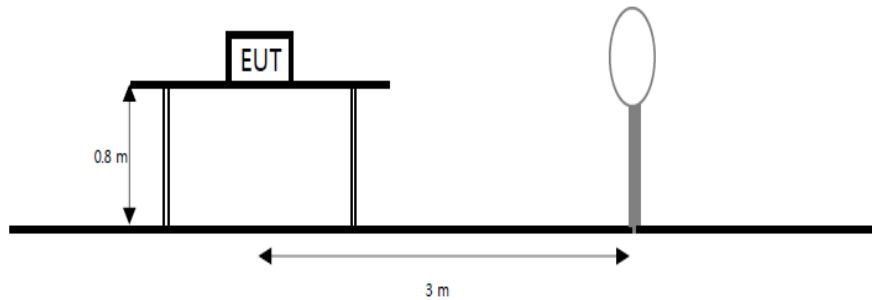




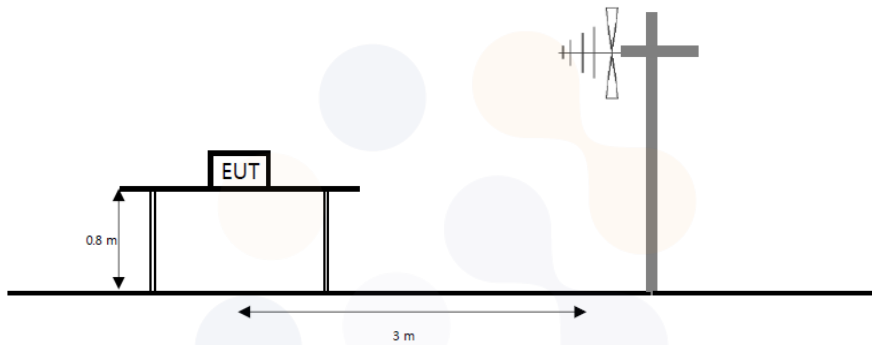
## 6.2. Field strength of fundamental & harmonic

### Test setup

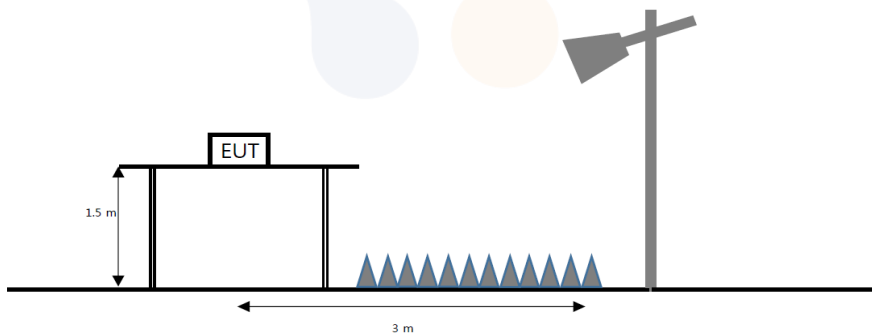
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz emissions.



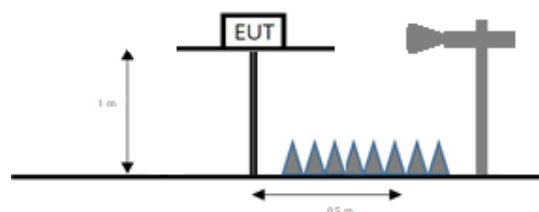
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 40 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from Above 40 GHz emissions.



## Limit

### FCC

According to section 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:

Frequency (MHz)	Field strength ( $\mu\text{V}/\text{m}$ )	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

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

According to section 15.249(a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field strength of fundamental (mV/m)	Field strength of harmonics ( $\mu\text{V}/\text{m}$ )
902 – 928	50	500
2 400 – 2 483.5	50	500
5 725 – 5 875	50	500
24 000 – 24 250	250	2 500

(b) Fixed, point-to-point operation as referred to in this paragraph shall be limited to systems employing a fixed transmitter transmitting to a fixed remote location. Point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information are not allowed. Fixed, point-to-point operation is permitted in the 24.05-24.25 GHz band subject to the following conditions:

- (1) The field strength of emissions in this band shall not exceed 2 500 millivolts/meter.
- (2) The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.001\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
- (3) Antenna gain must be at least 33 dBi. Alternatively, the main lobe beamwidth must not exceed 3.5 degrees. The beamwidth limit shall apply to both the azimuth and elevation planes. At antenna gains over 33 dBi or beamwidths narrower than 3.5 degrees, power must be reduced to ensure that the field strength does not exceed 2 500 millivolts/meter.

(c) Field strength limits are specified at a distance of 3 meters.

## IC

According to RSS-Gen(8.9), except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

**Table 5- General field strength limits at frequencies above 30 MHz**

Frequency(MHz)	Field strength ( $\mu\text{V/m}$ at 3 m)
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

**Table 6- General field strength limits at frequencies below 30 MHz**

Frequency	Magnetic field strength (H-Field) ( $\mu\text{A/m}$ )	Measurement distance(m)
9 – 490 kHz <sup>1)</sup>	6.37/F (F in kHz)	300
490 – 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

According to RSS-210 Annex B.10 devices shall comply with the following requirements:

(a) The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits in table B2.

**Table B2- Field strength limits at various frequencies**

Frequency Band (MHz)	Field strength ( $\text{mV/m}$ )	
	Fundamental emissions	Harmonic emissions
902-928	50	0.5
2 400-2 483.5	50	0.5
5 725-5 875	50	0.5
24 000-24 250	250	2.5

The field strength shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

(b) Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

The provisions of RSS-Gen regarding pulsed operation do not apply to CISPR measurement for the band 902-928 MHz.

Models of devices operating in the 24-24.25 GHz frequency band, compliant with RSS-310, issue 4, that were previously certification-exempt, may continue to be manufactured, imported, distributed, leased, offered for sale or sold, for the life of the vehicle within which such device models are already installed, for the purpose of replacing or repairing defective, damaged or potentially malfunctioning devices.

Notwithstanding the above, effective 18 months after the publication of this standard, devices installed on new vehicles shall comply with RSS-210, section B.10.

**Notes:**

1.  $f < 30$  MHz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40 \log(D_m/D_s)$

$f \geq 30$  MHz, extrapolation factor of 20 dB/decade of distance.  $F_d = 20 \log(D_m/D_s)$

Where:

$F_d$  = Distance factor in dB

$D_m$  = Measurement distance in meters

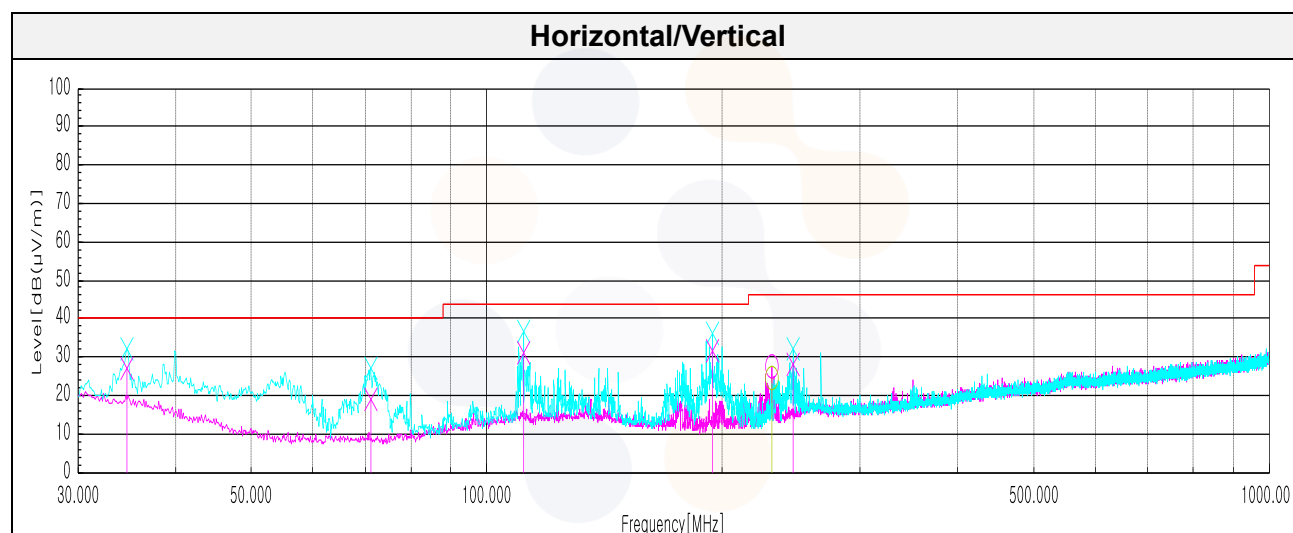
$D_s$  = Specification distance in meters

2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) - or  $F_d$ (dB)
3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
4. <sup>1)</sup> means restricted band
5. Average test would be performed if the peak result were greater than the average limit.
6. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBμV/m, which is equivalent to  $Y - 51.5 = Z$  dBμA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

## Test results

(30 ~ 1 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
34.73	V	34.10	22.31	-29.51	-	26.90	40.00	13.10
71.10	V	35.10	12.30	-28.57	-	18.83	40.00	21.17
111.48 <sup>1)</sup>	V	41.10	17.76	-27.76	-	31.10	43.50	12.40
194.29	V	42.90	15.10	-26.34	-	31.66	43.50	11.84
231.52	H	34.50	16.05	-25.92	-	24.63	46.00	21.37
246.80 <sup>1)</sup>	V	35.60	18.02	-25.71	-	27.91	46.00	18.09

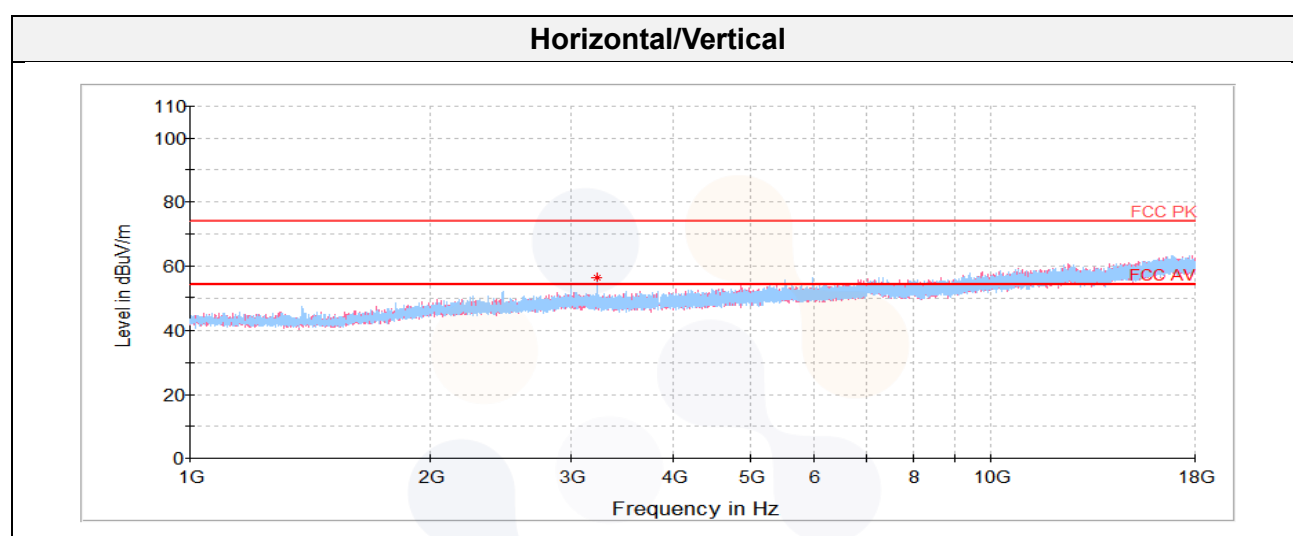


Note : The measurement results below 30 MHz is greater than 20 dB below the limit, so only the radiated spurious emissions from 30 MHz to 100 GHz were reported.

## Test results

(1 000 ~ 18 000 MHz)

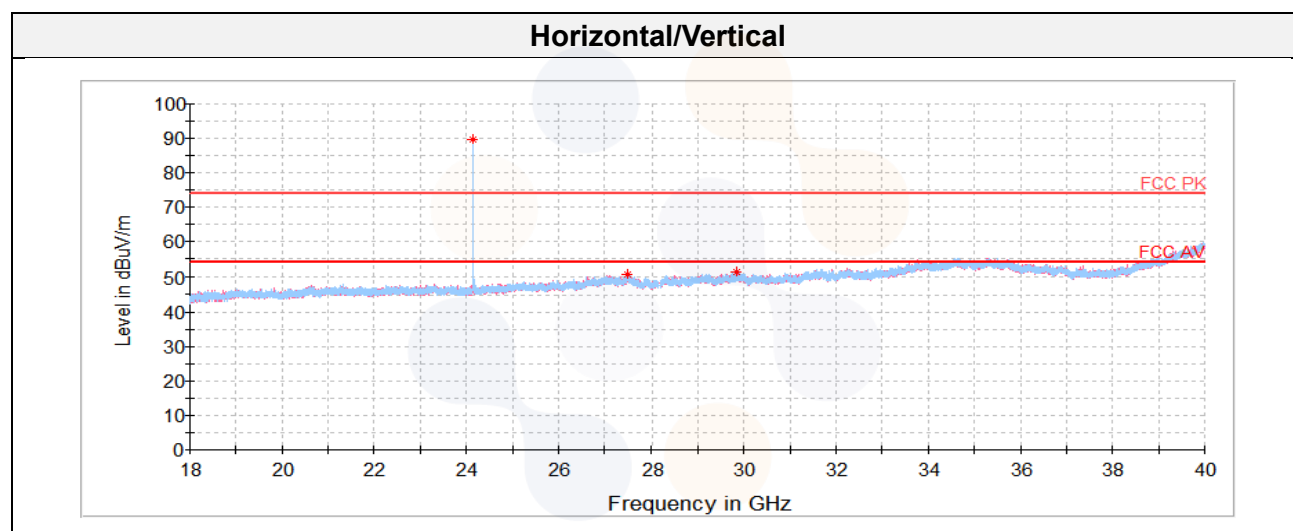
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
<b>Peak data</b>								
3 225.63	H	71.35	33.05	-48.21	-	56.19	74.00	17.81
<b>Average Data</b>								
3 225.63	H	65.08	33.05	-48.21	-	49.92	54.00	4.08



## Test results

(18 000 ~ 40 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
<b>Peak data</b>								
24 148.31*	H	86.01	45.56	-41.92	-	89.65	-	-
27 489.14	V	42.70	46.40	-38.64	-	50.46	68.20	17.74
29 852.35	V	41.58	46.40	-36.70	-	51.28	68.20	16.92
<b>Average Data</b>								
27 489.14	V	40.53	46.40	-38.64	-	48.29	68.20	19.91
29 852.35	V	39.75	46.40	-36.70	-	49.45	68.20	18.75

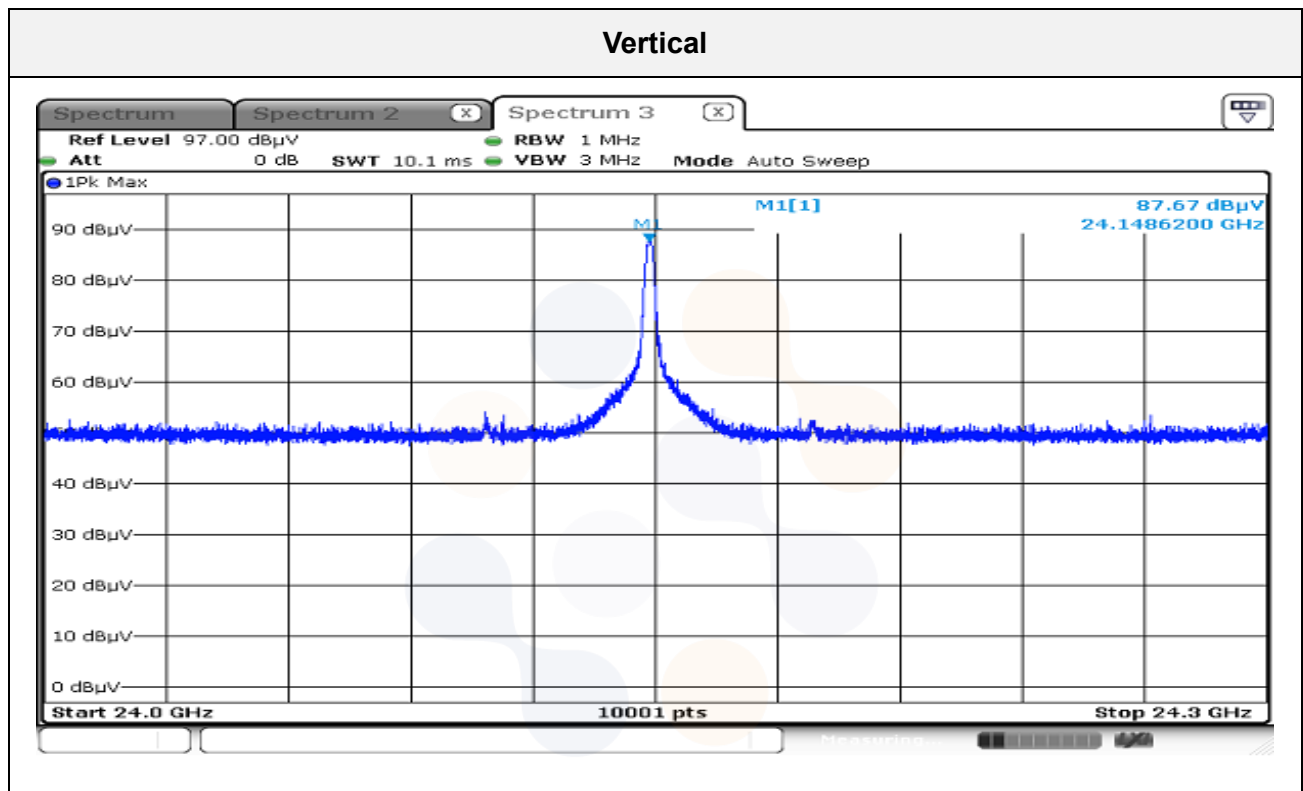


Note : Equipment's fundamental frequency, no need to evaluate it.

## Test results

### (Field strength of fundamental)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu$ V))	(dB)	(dB)	(dB)	(dB( $\mu$ V/m))	(dB( $\mu$ V/m))	(dB)
<b>Peak data</b>								
24 148.62	V	87.67	45.56	-41.92	-	91.31	127.96	36.65



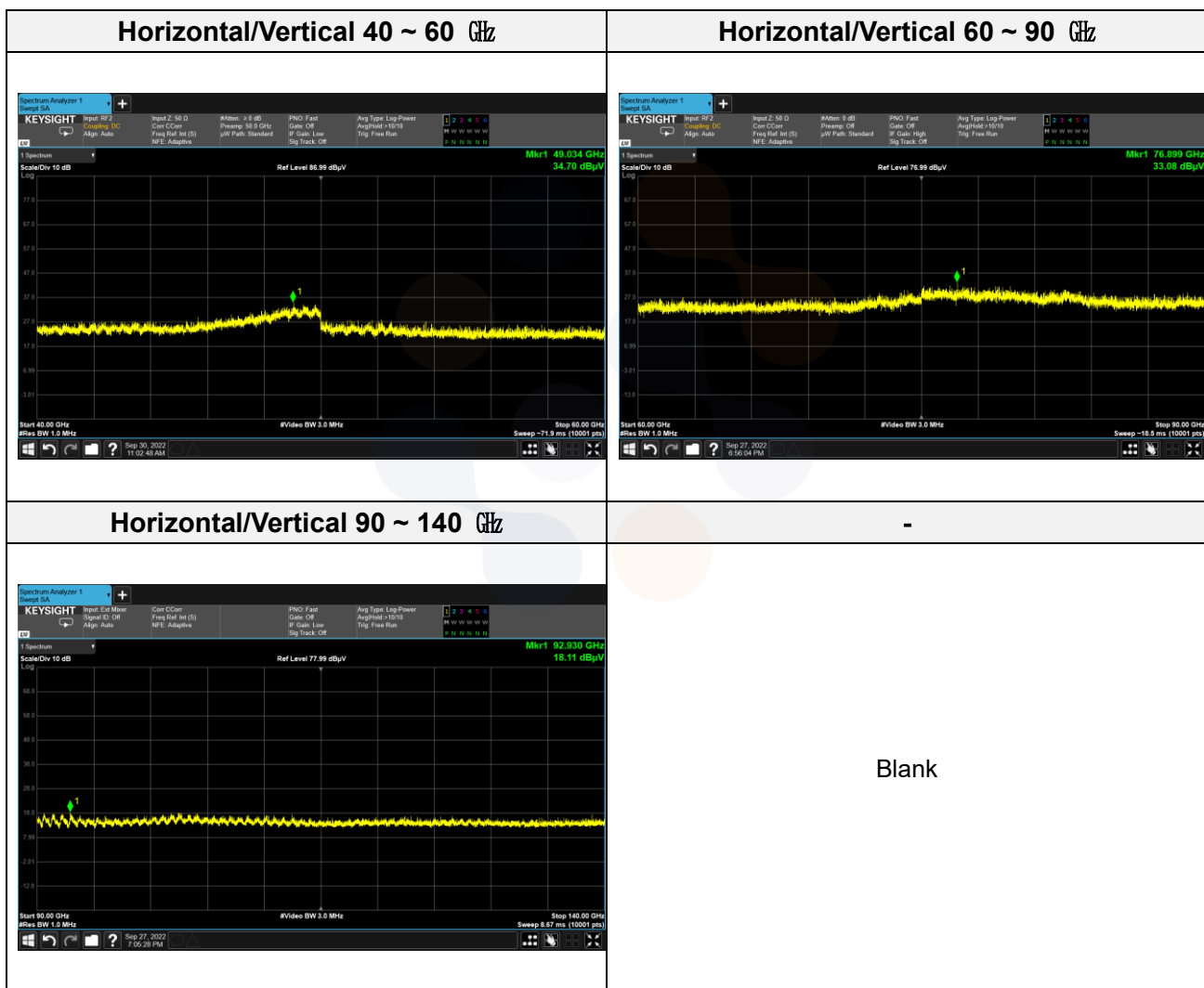
Note : The Average limit of fundamental is 107.96 dB $\mu$ V/m@3 m, and the maximum measure Peak level of fundamental is 91.31 dB $\mu$ V/m@3 m which is below 107.96 dB $\mu$ V/m@3 m, worst case of fundamental is recorded in this report



## Test results

(40 000 ~ 140 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Cable Loss	Distance Factor	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	[dB]	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
49 034.00	V	34.70	41.10	11.29	15.56	71.53	87.96	16.43
76 899.00	V	33.08	44.90	22.80	15.56	85.22	87.96	2.74
92 930.00	No spurious emissions were detected							



Note :

- Measurements were made with RBW 1 MHz, 100 kHz and 10 kHz for the 90 GHz ~ 140 GHz spurious region, but no signal was detected.
- Distance Factor =  $20 \cdot \log(3/0.5)$

## 7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Vector Signal Generator	R&S	SMBV100A	257566	23.07.04
Signal Generator	R&S	SMB100A	176206	23.01.19
EMI TEST RECEIVER	R&S	ESC17	100732	23.03.04
Bilog Antenna	TESEQ	CBL6112D	62438	24.08.24
AMPLIFIER	SONOMA	310N	284608	23.08.18
ATTENUATOR	KEYSIGHT	8491B-6dB	MY39271082	24.08.24
ISOLATION TRANSFORMER	ONETECH CO., LTD	OT-IT500VA	OTR1-16026	23.03.28
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10
DC Power Supply	AGILENT	E3632A	MY40006352	23.05.02
UXA Signal Analyzer	KEYSIGHT	N9041B	MY60100003	23.02.09
Millimeter Wave Source Module	OML, Inc.	S19MS-A	190725-1	23.10.26
Millimeter Wave Source Module	OML, Inc.	S12MS-A	190621-1	23.10.26
Millimeter Wave Source Module	OML, Inc.	S08MS-A	190621-1	23.10.26
Harmonic Mixer	OML, Inc.	M08HWD	190621-1	23.10.27
Horn Antenna	OML, Inc.	M19RH	190621-1	23.10.28
Horn Antenna	OML, Inc.	M12RH	190621-1	23.10.28
Horn Antenna	OML, Inc.	M08RH	190621-1	23.10.28
Horn Antenna	OML, Inc.	M19RH	190621-2	23.10.28
Horn Antenna	OML, Inc.	M12RH	190621-2	23.10.28
Horn Antenna	OML, Inc.	M08RH	190621-2	23.10.28
Spectrum Analyzer	R&S	FSV40	100989	23.10.14
Horn antenna	ETS.lindgren	3117	155787	23.09.23
Horn antenna	ETS.lindgren	3116	00086635	23.05.04
AMPLIFIER	B&Z Technologies	BZRT-00504000-481055-382525	26299-27735	23.09.19
AMPLIFIER	B&Z Technologies	BZR-0050400-551028-252525	27736	23.09.19
mmWave Single-Axis measuring jig	C&K Technologies, Inc.	N/A	N/A	N/A
Antenna Mast	Innco Systems	MA4640-XP-ET	N/A	N/A
Antenna Mast	Innco Systems	MA4000-EP	303	N/A
Turn Table	Innco Systems	CO3000	1175/45850319/P	N/A

**End of test report**