



Prüfbericht-Nr.: Test report no.:	CN2276MW (P15F-UWB) 001	Auftrags-Nr.: Order no.:	238542629	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-04-19	
Auftraggeber: Client:	GIPS Technology Co., Ltd. Tainan City 701024, Taiwa		Sec. 1, Linsen Rd., E	ast Dist.,
Prüfgegenstand: Test item:	UWB Anchor			
Bezeichnung / Typ-Nr.: Identification / Type no.:	GA-210			
Auftrags-Inhalt: Order content.	FCC Part 15F Test report			
Prüfgrundlage: Test specification:	FCC 47CFR Part 15: Subp	art F Section 15.517		
Wareneingangsdatum: Date of sample receipt:	2022-05-06			
Prüfmuster-Nr.: Test sample no:	A003255763-001			
Prüfzeitraum: Testing period:	2022-05-16 - 2022-06-13			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: compiled by: Datum: Date: 2022-06-23 Stellung / Position:	Jack Wang Jack Wang Project Manager	genehmigt von: authorized by: Ausstellungsdatu Issue date: 2022- Stellung / Position	-06-23 Rya	an Chen roject Manager
Sonstiges / Other: Zustand des Prüfgegens Condition of the test item a		Prüfmuster vollständ Test item complete a	lig und unbeschädigt and undamaged	
* Legende: 1 = sehr gut P(ass) = entspricht o. * Legend: 1 = very good P(ass) = passed a.m	2 = good 3 = satisfactory	l ht nicht o.g. Prüfgrundlage(n) m. test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
Dieser Prüfbericht bez auszugsweise vervie This test report only relates to	ieht sich nur auf das o.g. Prüfe lifältigt werden. Dieser Bericht o the a. m. test sample. Without licated in extracts. This test repo	muster und darf ohne C berechtigt nicht zur Ve permission of the test ce	Genehmigung der Prüf erwendung eines Prüfz enter this test report is no	stelle nicht zeichens.



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TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.517(c)(e),15.521(g)	EIRP	Pass
5.1.3	15.209,15.521(c)(d)(h),15.517(c)(d)	Radiated Spurious Emissions	Pass
5.1.4	15.503,15.521(e)	UWB Bandwidth	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN2276MW (P15F-UWB) 001	Original Release	2022-06-23



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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix: **Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission Appendix SP - Photographs of Test Setup Appendix EP - Photographs of EUT**

Applied Standard and Test Levels

Radio

FCC 47CFR Part 15: Subpart F Section 15.517 ANSI C63.10:2013

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.



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2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist. Taipei City 105 Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist., New Taipei City 244 Taiwan (R.O.C.) FCC Registration No.: 226631 ISED Registration No.: 25563



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2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB



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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a UWB Anchor working at 3993.6MHz ~ 6489.6MHz with UWB function. For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	UWB Anchor
Type Identification	GA-210
FCC ID	2A6S5-GA210

Technical Specification of EUT

Item	EUT information		
Operating Frequency	3993.6, 4492.8, 6489.6 MHz		
Operation Voltage	100~240 Vac		
Modulation	РАМ		
Antenna Information	Refer to 5.1.1		
Accessory Device	Refer to 4.3		



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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description



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4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: The EUT has a serial interface which makes it possible to control it by the test command by the terminal.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software UWBAnchorMonitorForProtocol3 v1.15.exe

The samples were used as follows: A003255763-001

Full test was applied on all test modes, but only worst case was shown.

EUT		Applicable To				
Configure Mode	EIRP	Radiated Spurious Emissions	UWB Bandwidth	Mains Conducted Emission	Description	
-	\checkmark	\checkmark	\checkmark	\checkmark	-	

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Y-plane.

"-" means no effect. 2.

EIRP

Pre-Scan full test was applied on all test modes, but only worst case was shown. $[\times]$

 \square Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	3993.6, 4492.8, 6489.6	3993.6, 4492.8, 6489.6

Radiated Spurious Emission

Pre-Scan full test was applied on all test modes, but only worst case was shown.

	Following channel(s) v	vas (were) selected for the final test as	listed below.	
EUT Configure Mode		Available Frequency (MHz)	Tested Frequency (MH	
	-	3993.6, 4492.8, 6489.6	3993.6, 4492.8, 6489.6	

UWB Bandwidth

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	- 3993.6, 4492.8, 6489.6	



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Mains Conducted Emission

Pre-Scan full test was applied on all test modes, but only worst case was shown.

\square	Following channel(s)	was (were)	selected for the final test as listed below.	
		1 1000 (1	woro,		

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
- 3993.6, 4492.8, 6489.6		3993.6

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	21.1-22.2 °C	60-63 %	Terry Chang
Field Strength of Fundamental Emissions	21.1-22.2 °C	60-63 %	Terry Chang
UWB Bandwidth	23.5 °C	56.3 %	Blake Wang
Mains Conducted Emission	21.9 °C	59 %	Ray Huang

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

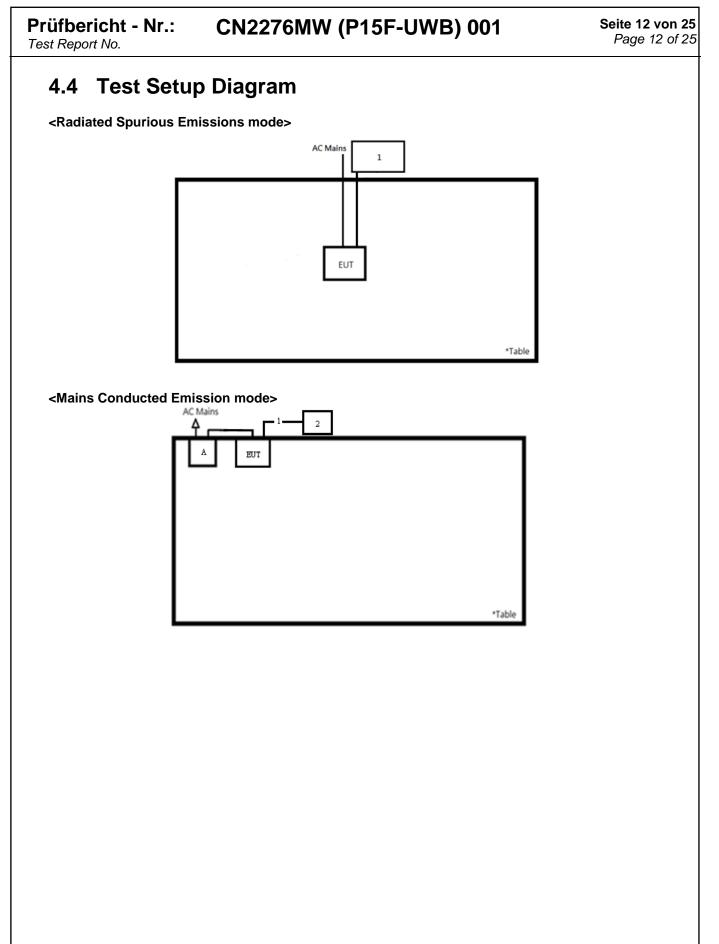
Accessory of EUT

No.	Product	Brand	Model	Description
A	Power Adaptor	UNIFIVE TECHNOLOGY CO., LTD	UV305-0510	I/P: 100-240 Vac, 50/60 Hz, 0.2 A O/P: 5 Vdc, 1 A 180cm non-shielded cable w/o core

Support Unit

	Support Unit									
NoDescriptionBrandModelS/NShieldedFerrite Core (Qty)Length (cm)Re							Remark			
1	NB	HP	15-da1046TX	CND911RJB	-	-	-	Radiated		
1	LAN Cable	TUV	TUV-001	N/A	NO	NO	300	Mains Conducted		
2	Notebook	Lenovo	81BL	MP1DCD6Y	-	-	-	mains Conducted		







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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement

Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 7.1 dBi (3993.6 MHz & 4492.8 MHz) and 4.5 dBi (6489.6 MHz). The antenna is a flexible antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.



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5.1.2 EIRP

Limit

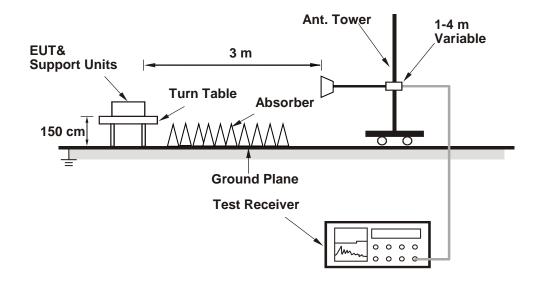
15.517(c) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, fM. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in § 15.521.

15.521(g) When a peak measurement is required, it is acceptable to use a resolution bandwidth other than the 50 MHz specified in this subpart. This resolution bandwidth shall not be lower than 1 MHz or greater than 50 MHz, and the measurement shall be centered on the frequency at which the highest radiated emission occurs, fM. If a resolution bandwidth other than 50 MHz is employed, the peak EIRP limit shall be 20 log (RBW/50) dBm where RBW is the resolution bandwidth in megahertz that is employed. This may be converted to a peak field strength level at 3 meters using E(dBuV/m) = P(dBm EIRP) + 95.2. If RBW is greater than 3 MHz, the application for certification filed with the Commission must contain a detailed description of the test procedure, calibration of the test setup, and the instrumentation employed in the testing.

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).



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Test Instruments

Kind of Equipment	Manufacturer	Туре	S/N	Calibration Date	Calibration Due Date			
		Above 1 GHz	, ,					
Signal Analyzer	R&S	FSV40	101508	2022/4/13	2023/4/12			
Horn Antenna	ETS-Lindgren	3117	00218930	2021/12/20	2022/12/19			
HF-AMP + AC source	EMCI	EMC051845SE	980633	2022/2/16	2023/2/15			
HF-AMP + AC source	EMCI	EMC184045SE	980657	2022/2/16	2023/2/15			
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2022/3/29	2023/3/28			
		30 MHz ~ 1 GH	Ηz					
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24			
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2022/4/6	2023/4/5			
LF-AMP	Agilent	8447D	2944A107722	2022/3/22	2023/3/21			
	Below 30 MHz							
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24			
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2021/12/8	2022/12/7			



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Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) or 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.
- 4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Channel	Frequency (MHz)	Measured Field Strength (dBuV/m)	Limit (RBW 50MHz) (dBuV/m)	Correction factor (50MHz to 1MHz)	Limit (dBuV/m)	Margin (dB)	Results	Polar(H/V)
2	3993.6	46.28	95.2	-33.98	61.22	-14.94	Pass	Н
2	3993.6	41.98	95.2	-33.98	61.22	-19.24	Pass	V
2	4492.8	48.84	95.2	-33.98	61.22	-12.38	Pass	Н
3	4492.8	47.92	95.2	-33.98	61.22	-13.30	Pass	V
F	6489.6	52.72	95.2	-33.98	61.22	-8.50	Pass	Н
5	6489.6	55.68	95.2	-33.98	61.22	-5.54	Pass	V

Test Results

Note:

- 1. BW correction factor = 20log(RBW/50MHz)
- E(dBuV/m) = P(dBm EIRP) + 95.2



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5.1.3 Radiated Spurious Emissions

Limit

The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in § 15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

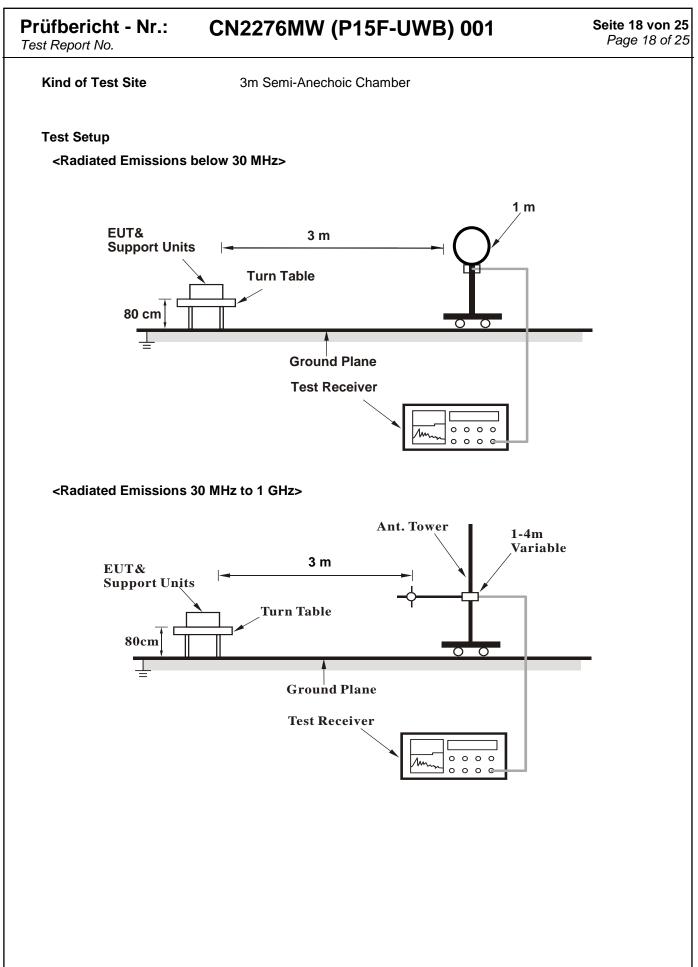
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Frequencies (MHz)	EIRP in dBm	Measurement Distance (meters)
960-1610	-75.3	3
1610-1990	-53.3	3
1990-3100	-51.3	3
3100-10600	-41.3	3
Above 10600	-51.3	3

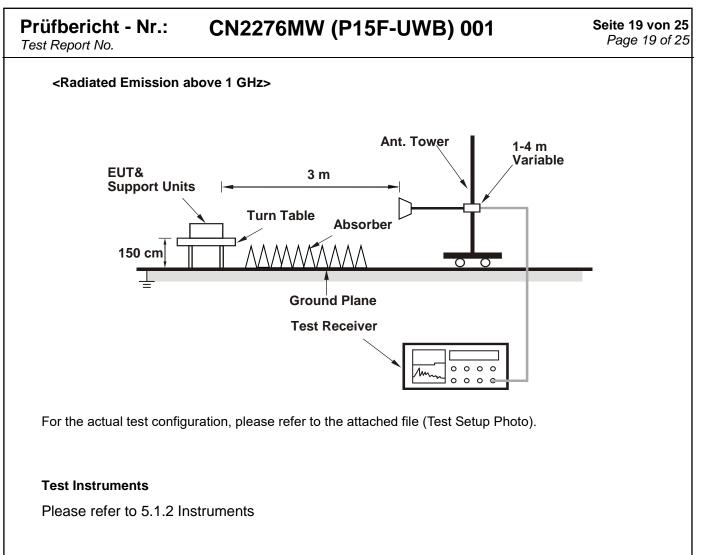
UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequencies (MHz)	EIRP in dBm	Measurement Distance (meters)
1164-1240	-85.3	3
1559-1610	-85.3	3











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Test Procedures

For Radiated Emissions below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.
- 4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.



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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Level (dBuV/m) = Reading (dBuV) + Factor (dB/m) E(dBuV/m) = P(dBm EIRP) + 95.2

Please refer to Appendix A.

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5.1.4 UWB Band	width	
Limit	The frequency at which the highest radiated emissior fM, must be contained within the UWB bandwidth.	n occurs,
Kind of Test Site	Shielded room	
Test Setup		
EUT	Attenuator	
	Attenuator	

Test Instruments

Kind of	Manufacturer	Tuno	S/N	Calibration	Calibration	Test	Date
Equipment	Manufacturer	Туре	5/1	Date	Due Date	From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/02/24	2023/2/23	2022/5/16	2022/5/16

Test Procedure

The frequency at which the maximum power level is measured with the peak detector is designated fM. The peak power measurements shall be made using a spectrum analyzer or EMI receiver with a 1 MHz resolution bandwidth and a video bandwidth of 1 MHz or greater. The instrument shall be set to peak detection using the maximum-hold trace mode. The outermost 1 MHz segments above and below fM, where the peak power falls by 10 dB relative to the level at fM, are designated as fH and fL, respectively:

- a. For the lowest frequency bound fL, the emission is searched from a frequency lower than fM that has, by inspection, a peak power much lower than 10 dB less than the power at fM and increased toward fM until the peak power indicates 10 dB less than the power at fM. The frequency of that segment is recorded.
- b. This process is repeated for the highest frequency bound fH, beginning at a frequency higher than fM that has, by inspection, a peak power much lower than 10 dB below the power at fM. The frequency of that segment is recorded.
- c. The two recorded frequencies represent the highest fH and lowest fL bounds of the UWB transmission, and the -10 dB bandwidth (B 10) is defined as (fH fL).82 The center frequency (fc) is mathematically determined from (fH fL) / 2.
- d. The fractional bandwidth is defined as 2(fH fL) / (fH + fL).
- e. Determine whether the −10 dB bandwidth (fH − fL) is ≥500 MHz, or whether the fractional bandwidth 2(fH − fL) / (fH + fL) is ≥0.2.



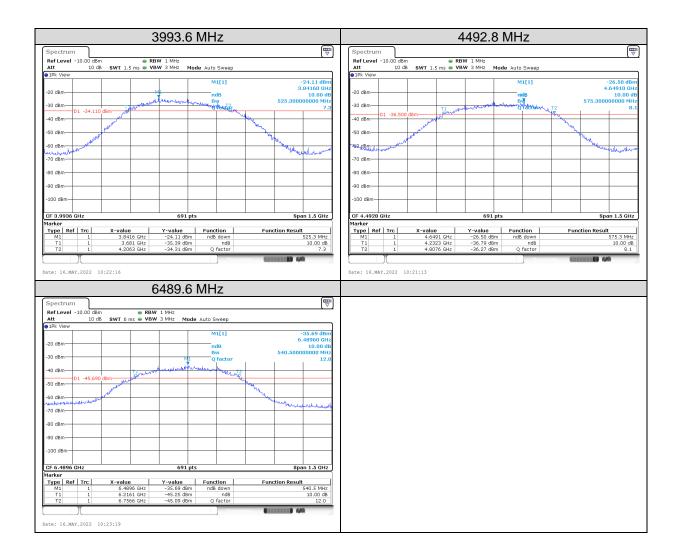
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Test Report No.

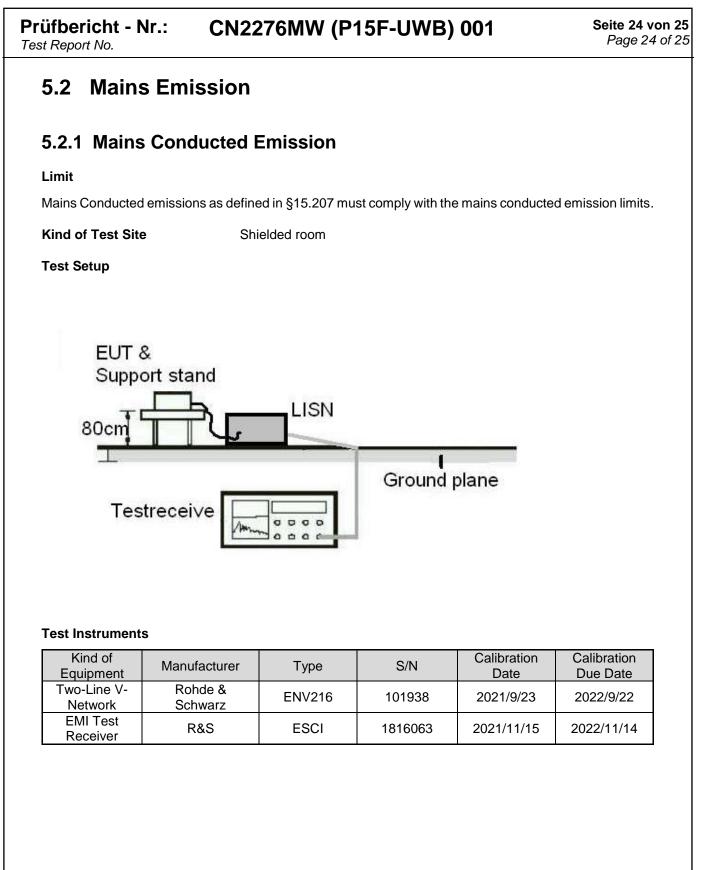
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Test Results

Frequency (MHz)	FL (GHz)	FH (GHz)	10 dB Bandwidth (MHz)	Limit (MHz)	Result
3993.6	3.6810	4.2063	525.0	≥500	Pass
4492.8	4.2323	4.8076	575.3	≥500	Pass
6489.6	6.2161	6.7566	540.5	≥500	Pass









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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

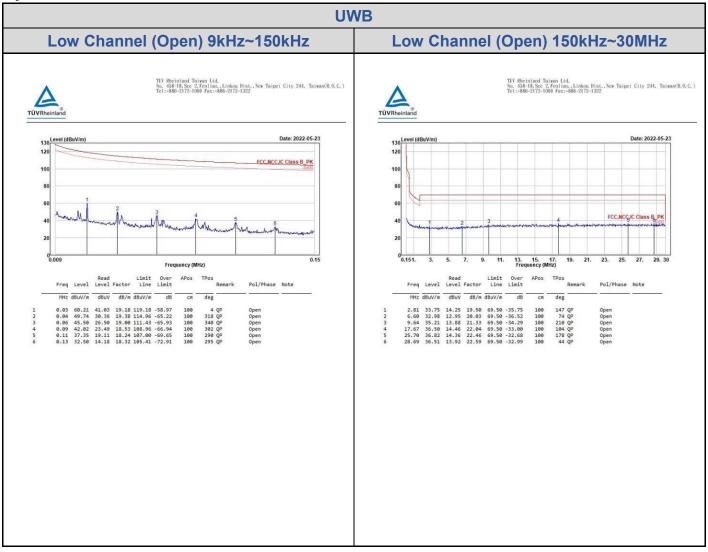
Test Results

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

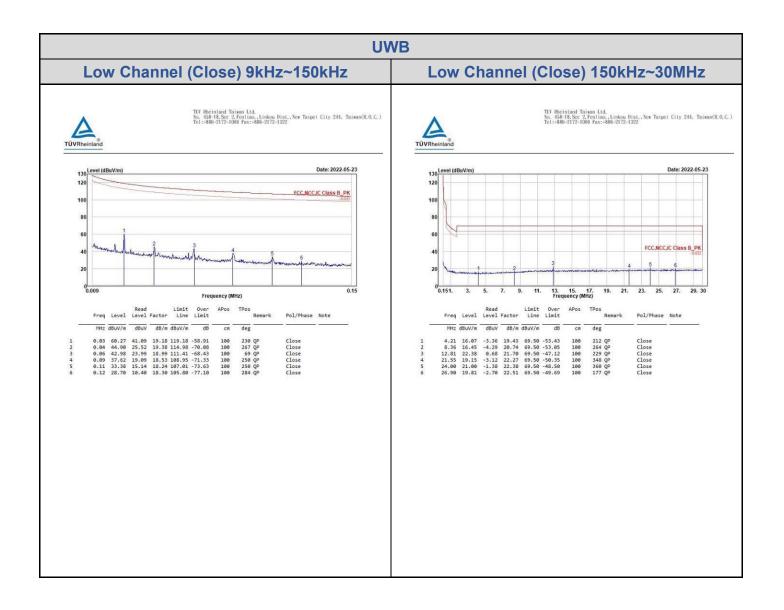
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz





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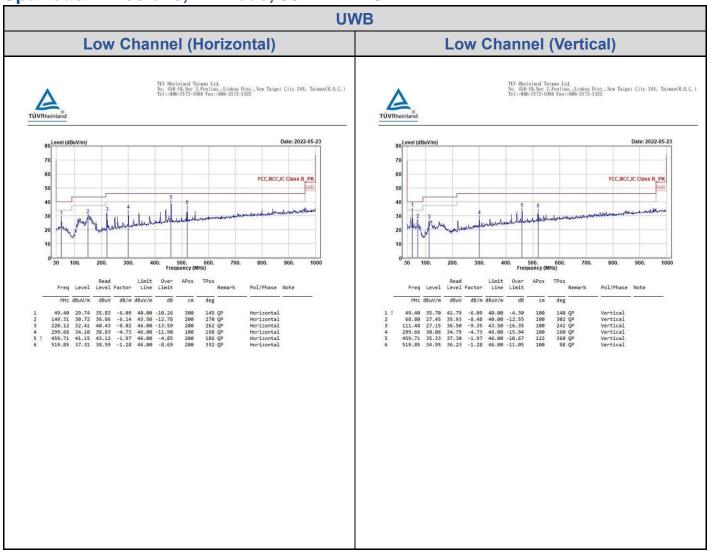


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Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

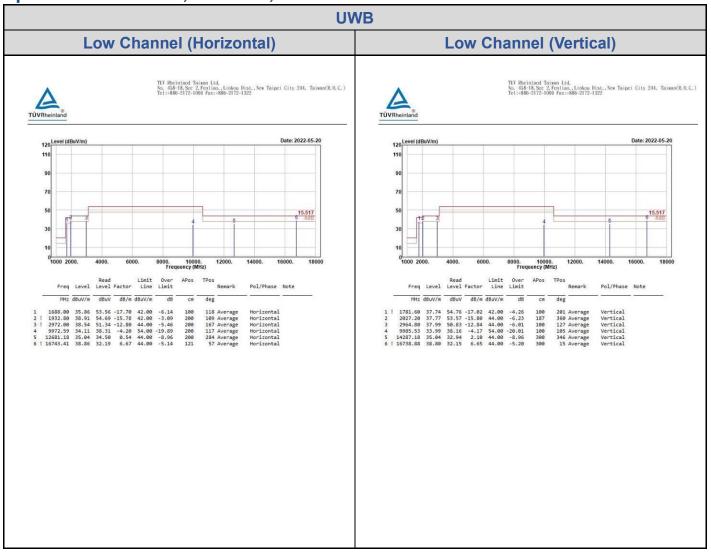


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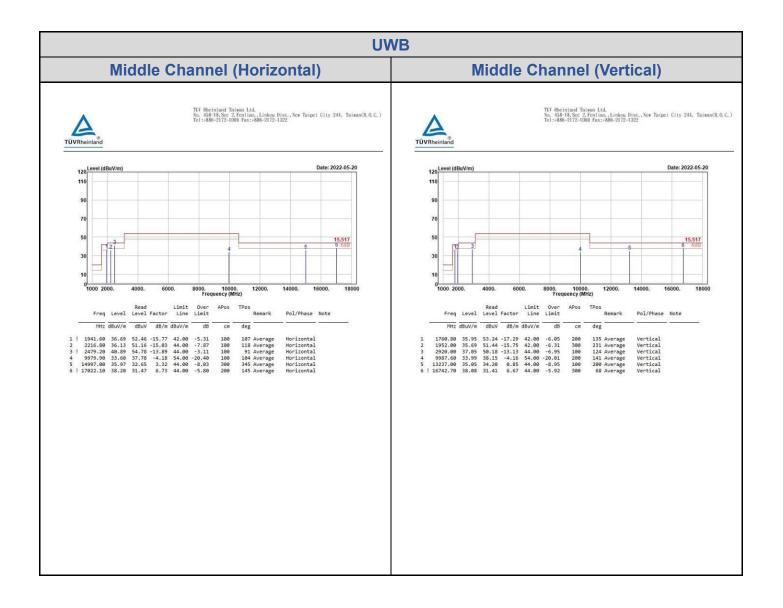
Spurious Emissions, Tx Mode, 1GHz ~ 40GHz





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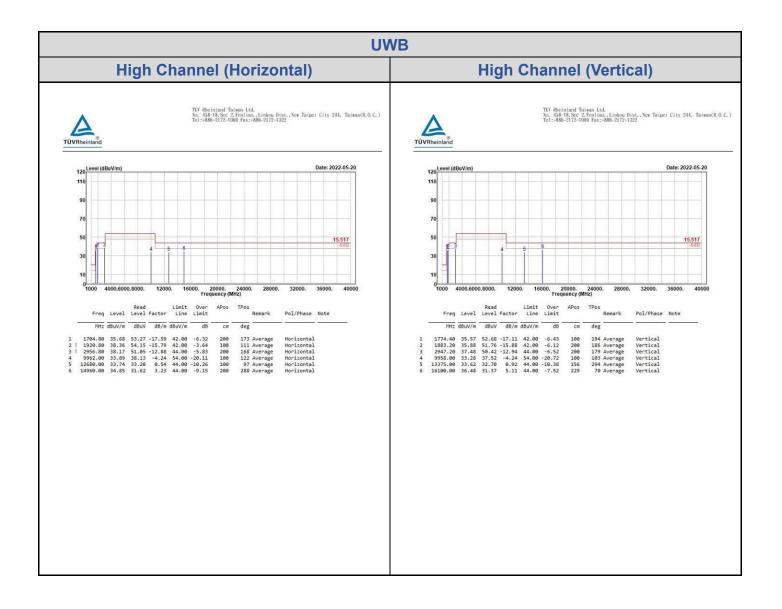
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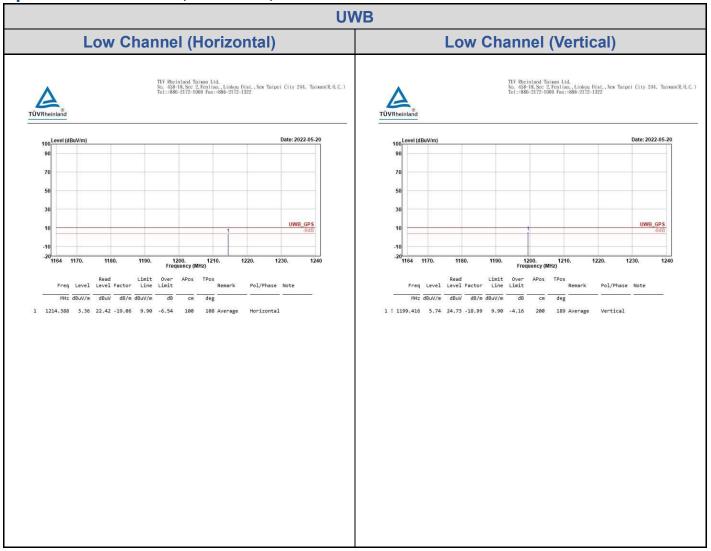


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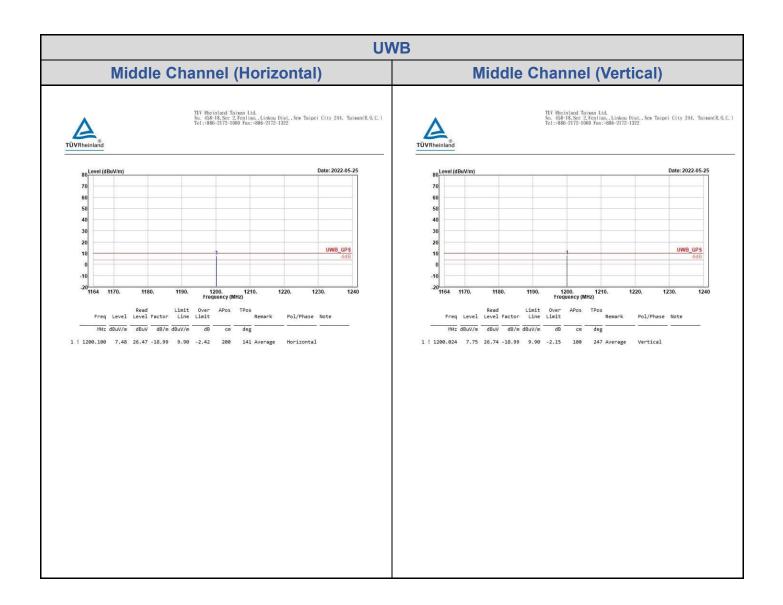
Spurious Emissions, Tx Mode, 1164MHz ~ 1240MHz





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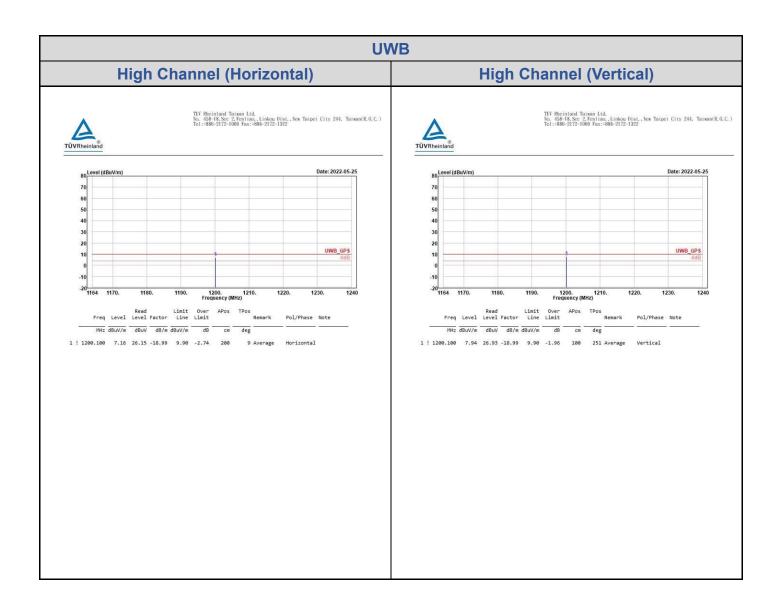
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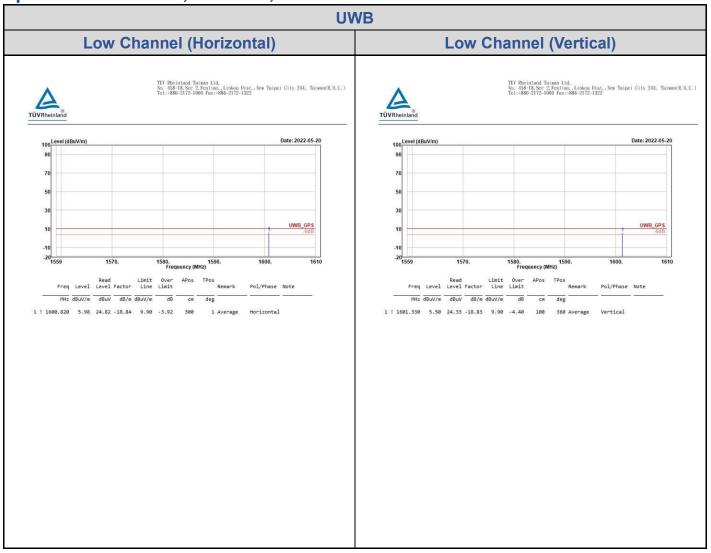


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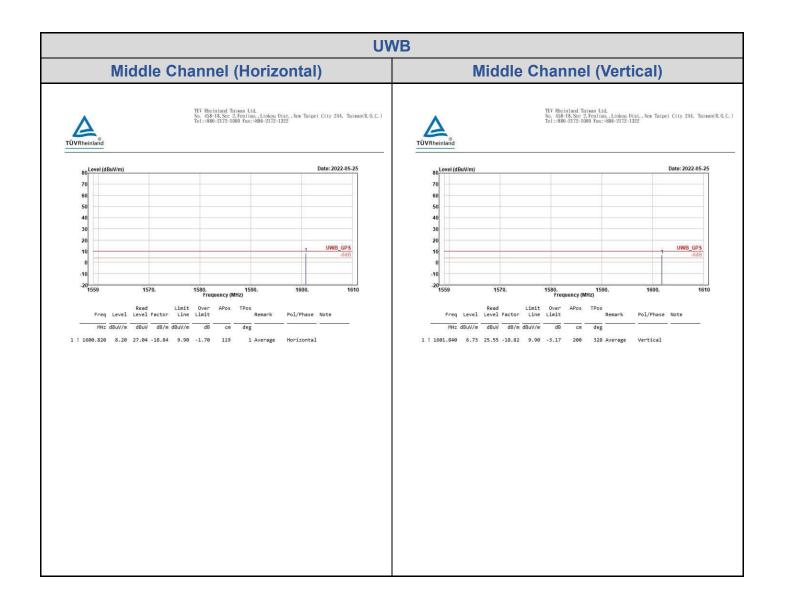
Spurious Emissions, Tx Mode, 1559MHz ~ 1610MHz





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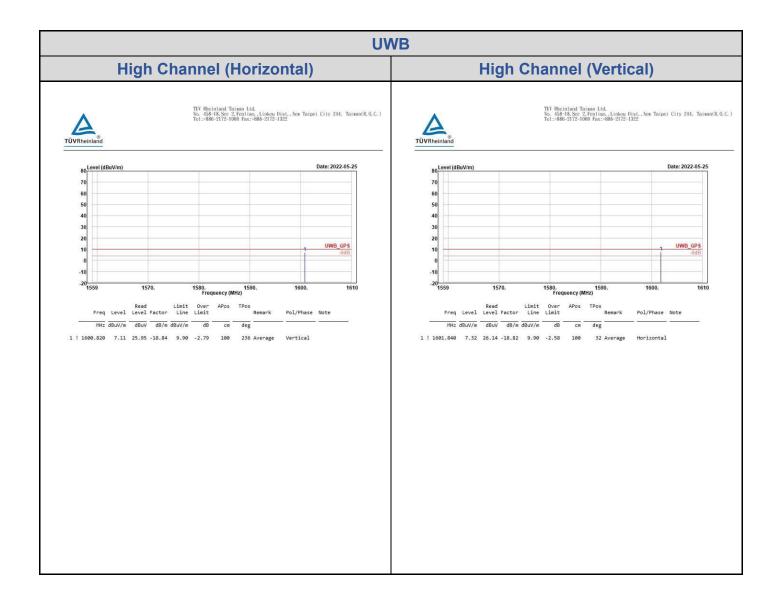


Prüfbericht - Nr.:

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Mains Conducted Emission, TX 150kHz ~ 30MHz

