



Prüfbericht-Nr.: <i>Test report no.:</i>	CN22PQM6 (P15C-24GHz) 001	Auftrags-Nr.: <i>Order no.:</i>	238523230	Seite 1 von 22 Page 1 of 22	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-12-03		
Auftraggeber: <i>Client:</i>	SZ DJI TECHNOLOGY CO.,LTD. 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China				
Prüfgegenstand: <i>Test item:</i>	AESA Digital Radar				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RD2484R				
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report				
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.249				
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-11-26				
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003172229				
Prüfzeitraum: <i>Testing period:</i>	2021-12-23 - 2022-01-21				
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site				
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories				
Prüfergebnis*: <i>Test result*:</i>	Pass				
überprüft von: <i>compiled by:</i>		genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	2022-01-22	Ausstellungsdatum: <i>Issue date:</i>	2022-01-22		
Stellung / Position:	Senior Project Engineer	Stellung / Position:	Senior Project Manager		
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.215	20 dB Bandwidth	Pass
5.1.2	2.1049	99% Occupied Bandwidth	Pass
5.1.3	15.249 (a)	Field Strength of Fundamental Emissions	Pass
5.1.4	15.249 (d)	Radiated Spurious Emissions	Pass
-	15.207	Mains Conducted Emission	Not Applicable

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

Contents

HISTORY OF THIS TEST REPORT	4
1. GENERAL REMARKS	5
1.1 COMPLEMENTARY MATERIALS.....	5
1.2 DECISION RULE OF CONFORMITY	5
2. TEST SITES	6
2.1 TEST LABORATORY	6
2.2 TEST FACILITY.....	6
2.3 TRACEABILITY	7
2.4 CALIBRATION	7
2.5 MEASUREMENT UNCERTAINTY	7
3. GENERAL PRODUCT INFORMATION.....	8
3.1 PRODUCT FUNCTION AND INTENDED USE	8
3.2 SYSTEM DETAILS AND RATINGS.....	8
3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.4 SUBMITTED DOCUMENTS.....	9
4. TEST SET-UP AND OPERATION MODES.....	10
4.1 PRINCIPLE OF CONFIGURATION SELECTION	10
4.2 TEST OPERATION AND TEST SOFTWARE.....	10
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4 TEST SETUP DIAGRAM	11
5. TEST RESULTS	12
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	12
5.1.1 <i>Antenna Requirement</i>	<i>12</i>
5.1.2 <i>20 dB Bandwidth and 99% Occupied Bandwidth.....</i>	<i>13</i>
5.1.3 <i>Field Strength of Fundamental Emissions</i>	<i>16</i>
5.1.4 <i>Radiated Spurious Emissions</i>	<i>19</i>

APPENDIX A - TEST RESULT OF RADIATED EMISSIONS

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

Prüfbericht - Nr.: CN22PQM6 (P15C-24GHz) 001
Test Report No.

Seite 4 von 22
Page 4 of 22

HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN22PQM6 (P15C-24GHz) 001	Original Release	2022-01-22

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

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.249
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.

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

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 basis 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)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Radiated Emission (40 GHz ~ 100 GHz)	± 1.78 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a AESA Digital Radar. It contains a 24GHz compatible module enabling the user to detect the object from the blindside through a radar detector.

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	AESA Digital Radar
Type Identification	RD2484R
FCC ID	SS3-RD2484R2111

Technical Specification of EUT

Item	EUT information
Operating Frequency	24.05-24.25GHz
Operation Voltage	32Vdc
Modulation	FMCW
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

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

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 is tested after the power is on.

Test Software	None.
---------------	-------

The samples were used as follows:

A003172229

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

EUT Configure Mode	Applicable To				Description
	20 dB Bandwidth and Occupied Bandwidth	Field Strength of Fundamental Emissions	Radiated Spurious Emissions	Mains Conducted Emission	
-	√	√	√	-	-

Note:

- 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.

20 dB Bandwidth and Occupied 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Field Strength of Fundamental Emissions

- 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Radiated Spurious Emission

- 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 (GHz)	Tested Frequency (GHz)
-	24.05 to 24.25	24.05-24.25

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
20 dB Bandwidth & 99% Occupied Bandwidth	21.6-23.1 °C	50-55 %	Hunter Wang
Radiated Spurious Emissions	21.6-23.1 °C	50-55 %	Hunter Wang
Field Strength of Fundamental Emissions	21.6-23.1 °C	50-55 %	Hunter Wang

4.3 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

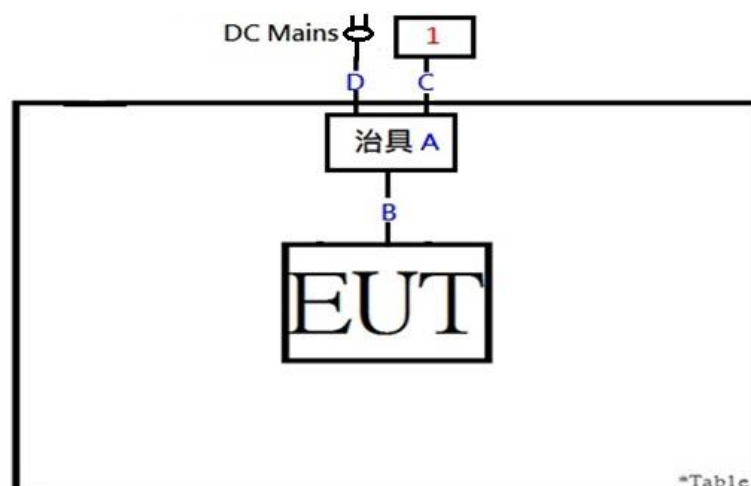
None.

Support Unit

Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Fixture	TUV SZ	TUV SZ	N/A	-	-	-	--
B	Type-C Cable	TUV SZ	TUV SZ 001	N/A	YES	0	60	--
C	Type-C Cable	TUV SZ	TUV SZ 002	N/A	YES	0	100	
D	DC Cable	TUV SZ	TUV SZ 003	N/A	NO	0	195	
1	NB	HP	15s-du0007TX	CND93662VF	-	-	-	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



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 directional gain of 10 dBi (8T4R) and 13 dBi (1T1R). The antenna is a linear 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.

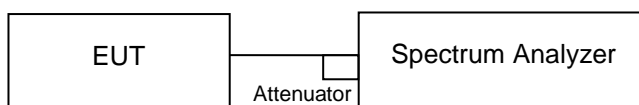
Refer to EUT photo for details.

5.1.2 20 dB Bandwidth and 99% Occupied Bandwidth

Limit

The occupied bandwidth shall be specified in operating frequency band.

Kind of Test Site Shielded room

Test Setup

Test Instruments

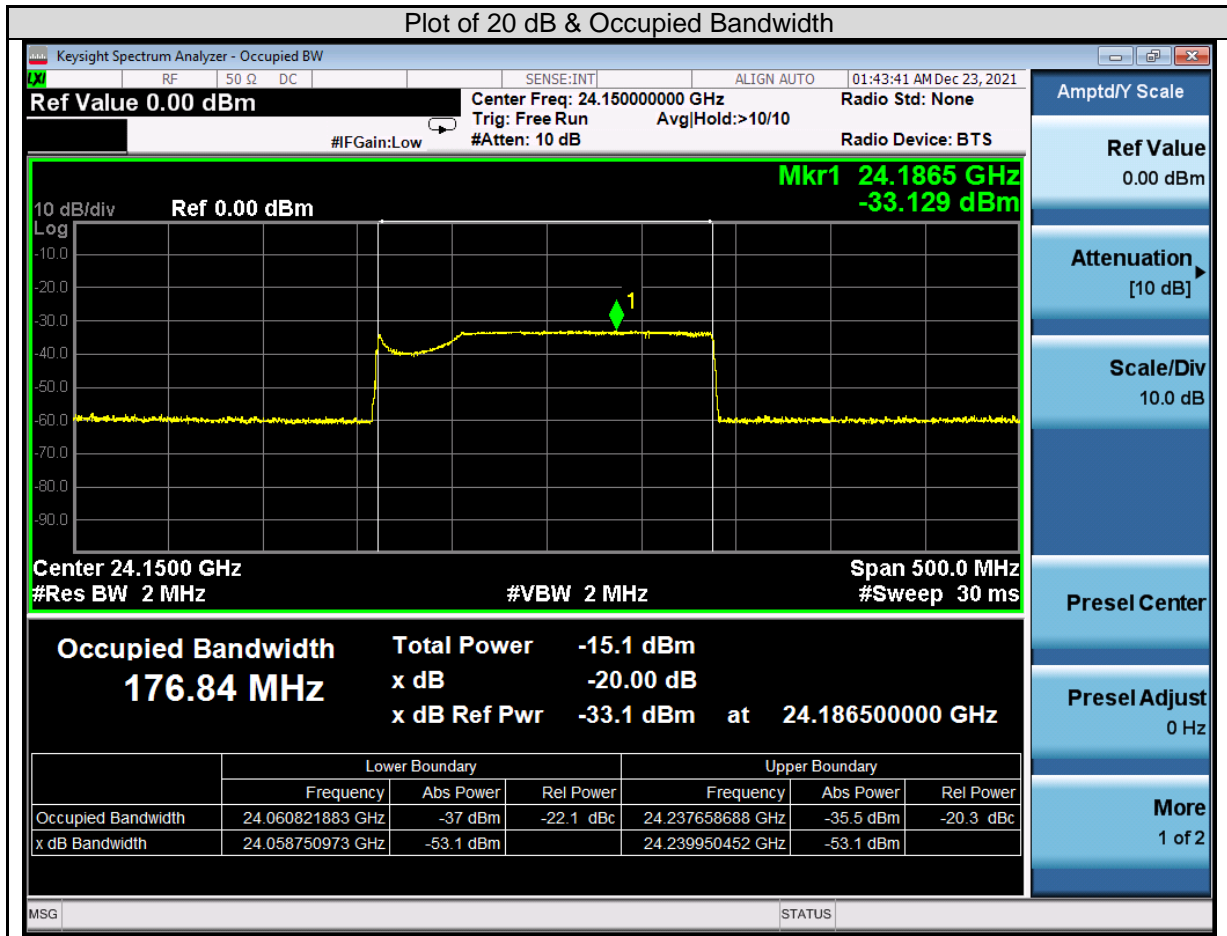
Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Signal Analyzer	Agilent	N9010A	MY52221334	2021/3/4	2024/3/3	2021/12/23	2022/1/18

Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.
- e. The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

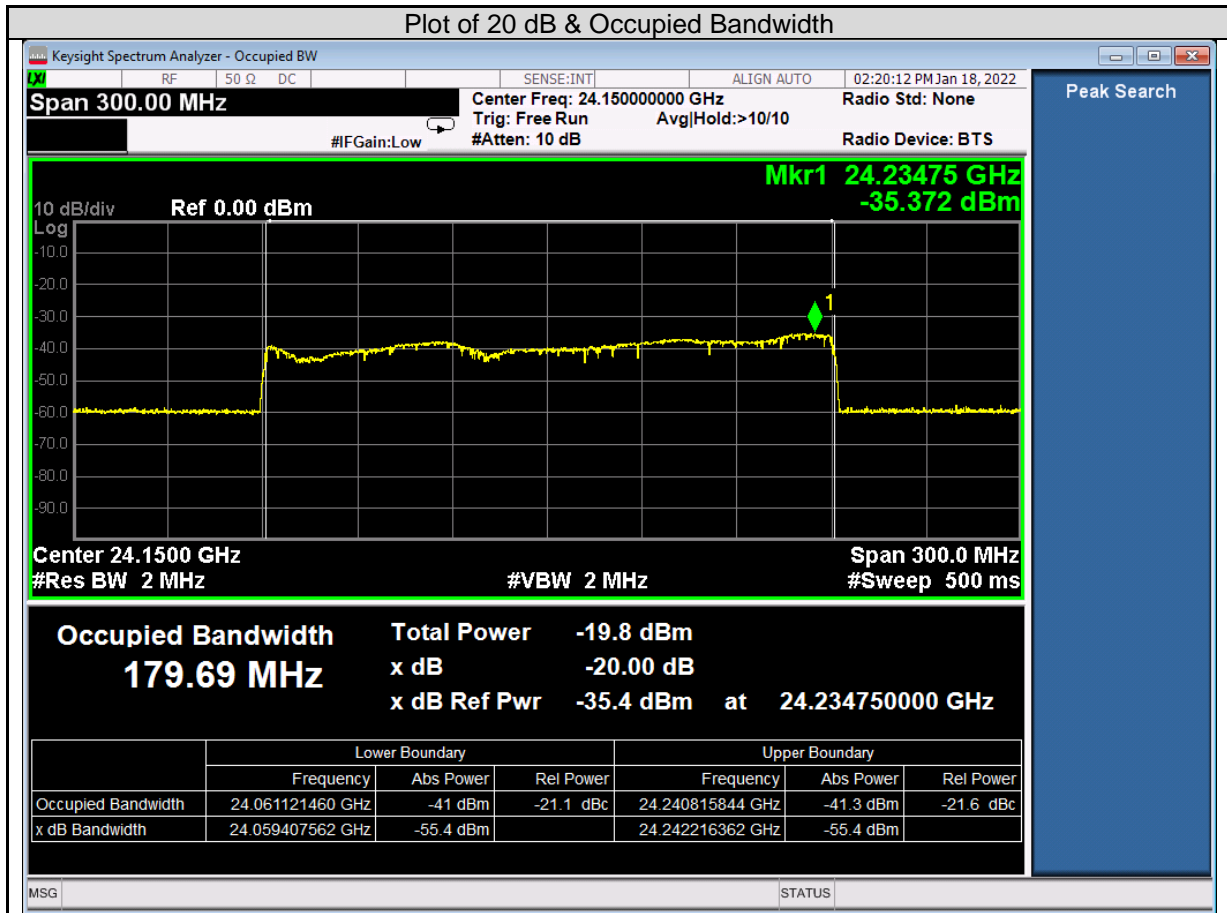
Test Results
<8T4R>

Frequency (GHz)	20 dB Bandwidth		99% Occupied Bandwidth
	F _L (GHz)	F _H (GHz)	(MHz)
24.05-24.25	24.059	24.240	176.84
Limit	24.05-24.25		-



<1T1R>

Frequency (GHz)	20 dB Bandwidth		99% Occupied Bandwidth
	F _L (GHz)	F _H (GHz)	(MHz)
24.05-24.25	24.059	24.242	179.69
Limit	24.05-24.25		-



5.1.3 Field Strength of Fundamental Emissions

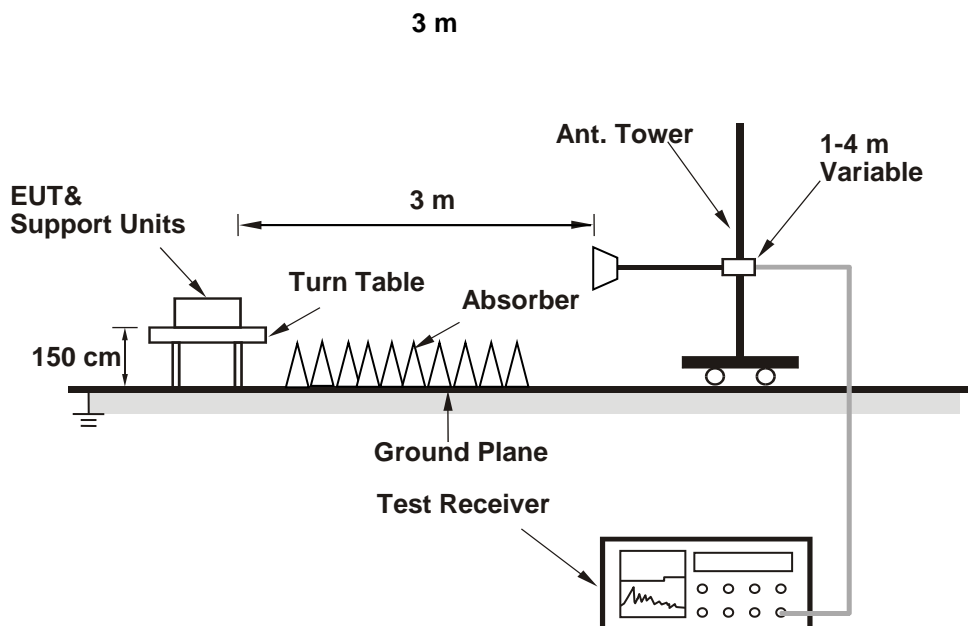
Limit

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meters)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup



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

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Receiver	R&S	ESR7	102109	2021/3/16	2022/3/15
Signal Analyzer	R&S	FSV40	101508	2021/3/16	2022/3/15
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2021/2/18	2022/2/17
Horn Antenna	ETS-Lindgren	3117	00218930	2021/12/20	2022/12/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2021/4/8	2022/4/7
LF-AMP	Agilent	8447D	2944A10772	2021/2/18	2022/2/17
HF-AMP + AC source	EMCI	EMC051845SE	980633	2021/2/9	2022/2/8
HF-AMP + AC source	EMCI	EMC184045SE	980657	2021/2/1	2022/1/31
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2021/3/17	2022/3/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2021/4/16	2022/4/15
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2021/4/16	2022/4/15
Coincal Horn Antenna	VDI	WR15CH	1-15	2021/4/12	2024/4/11
Coincal Horn Antenna	VDI	WR12CH	RCH012RL	2021/4/15	2024/4/14
Coincal Horn Antenna	VDI	WR10CH	1-10	2021/2/19	2024/2/19
Coincal Horn Antenna	VDI	WR8.0CH	1-8.0	2021/4/8	2024/4/7
Coincal Horn Antenna	OML	M19RH	16070501	2021/4/8	2024/4/7
Mixer SA	VDI	N9029AV15	SAX 039	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV12	SAX 243	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV10	SAX 047	2019/7/1	2022/6/30
Mixer SA	VDI	N9029AV08	SAX 045	2019/7/1	2022/6/30
Harmonic Mixer	Keysight	M1971W	MY56390137	2019/7/1	2022/6/30
Harmonic Mixer	Keysight	M19HWDX	160118-1	2020/12/8	2023/12/7
Signal Analyzer	Agilent	N9010A	MY52221334	2021/3/4	2024/3/3
Loop Antenna	SCHWARZBECK	FMZB1519B	00215	2021/12/8	2022/12/7

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.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

5.1.4 Radiated Spurious Emissions

Limit

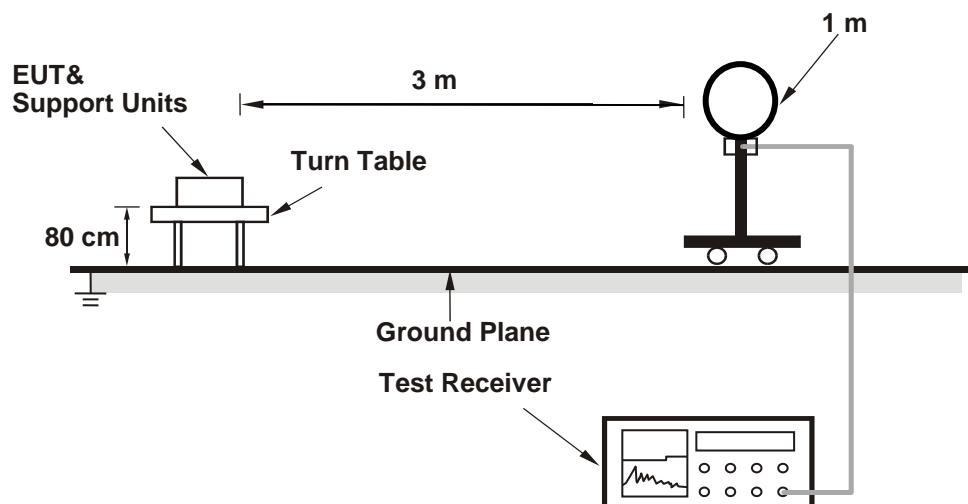
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation.

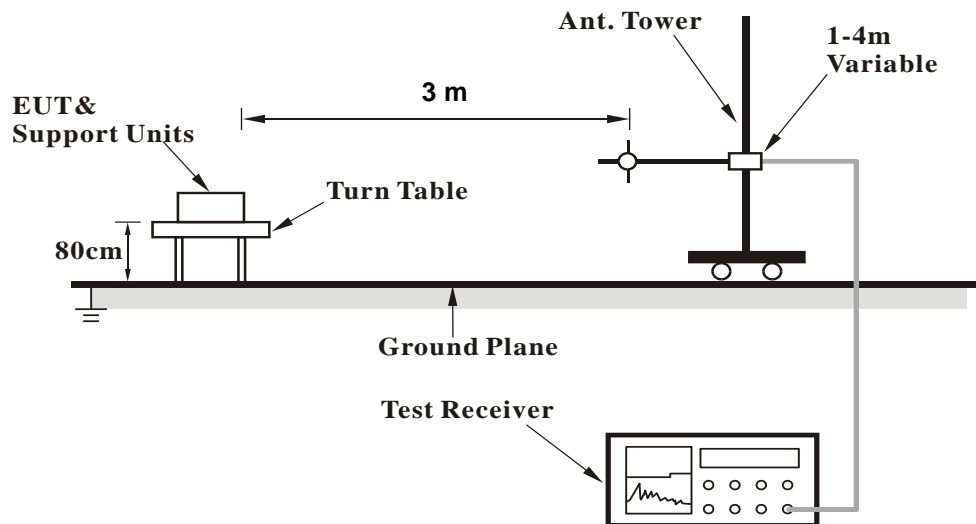
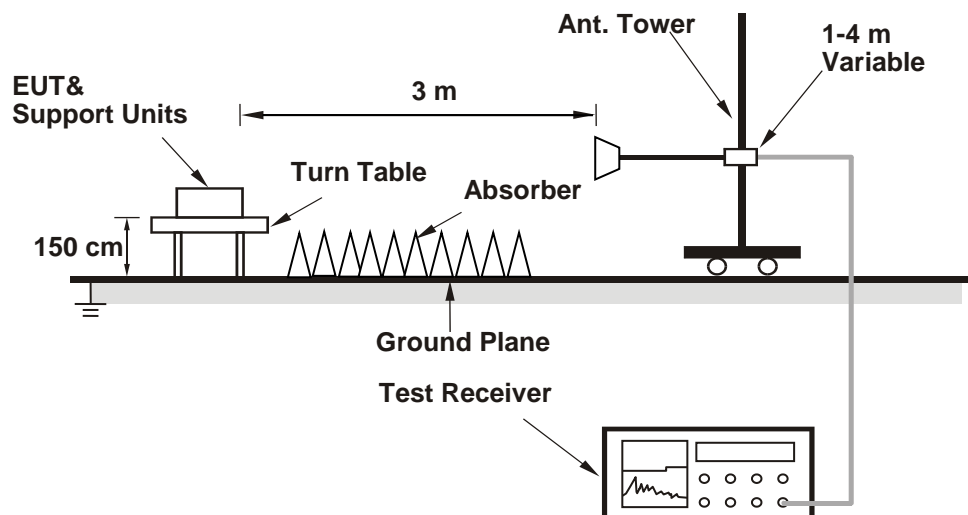
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>

<Radiated Emission above 1 GHz>


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

Test Instruments

Please refer to 5.1.3 Instruments

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.

Prüfbericht - Nr.: **CN22PQM6 (P15C-24GHz) 001**
Test Report No.

Seite 22 von 22
Page 22 of 22

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

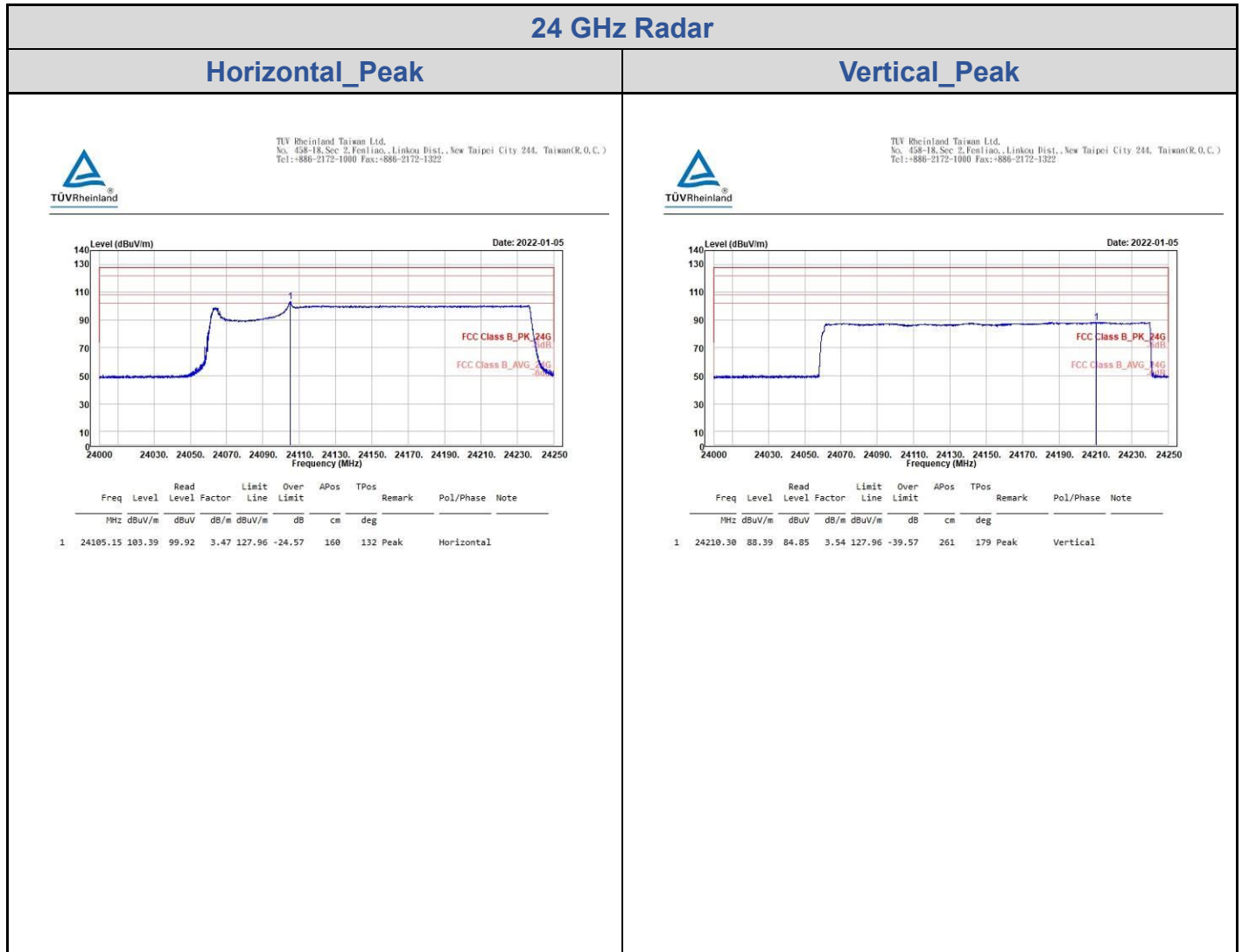
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

Appendix A: Test Results of Radiated Emissions

Fundamental Emissions

<8T4R>



24 GHz Radar

Horizontal_Average

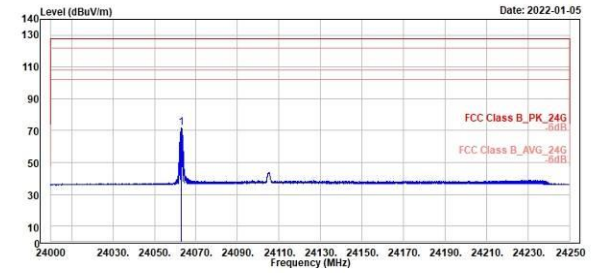
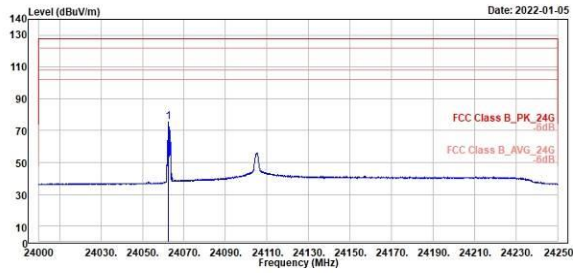
Vertical_Average



TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



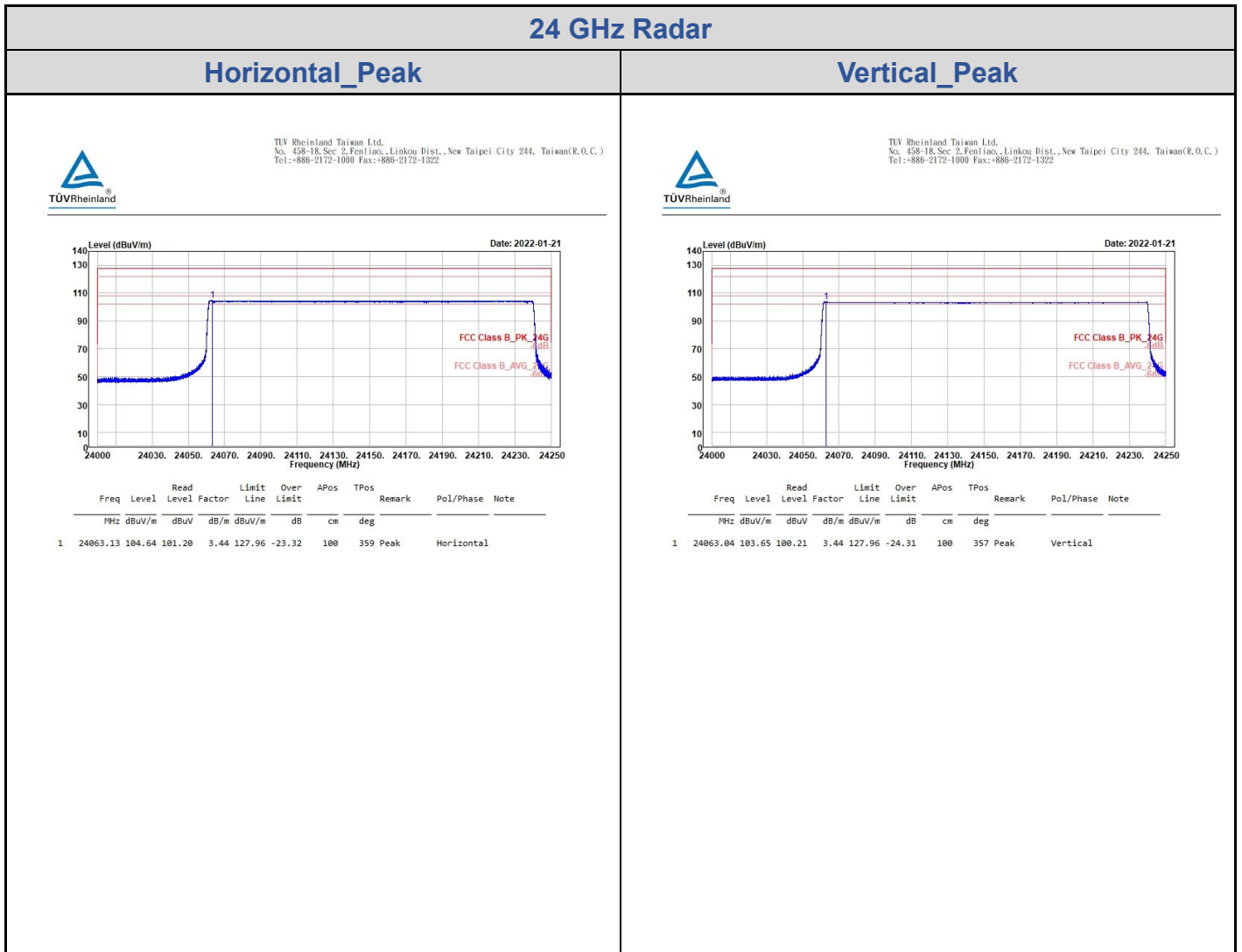
TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	24062.65	75.40	71.96	3.44	107.96	-32.56	160	132	Average Horizontal

Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	24063.00	71.98	68.54	3.44	107.96	-35.98	261	179	Average Vertical

<1T1R>



24 GHz Radar

Horizontal_Average

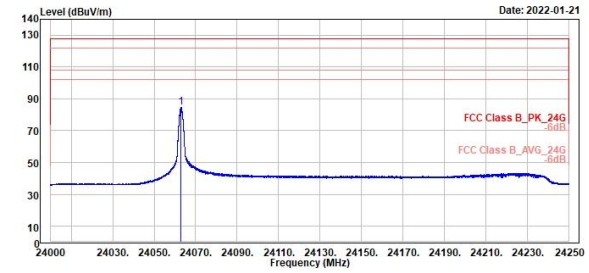
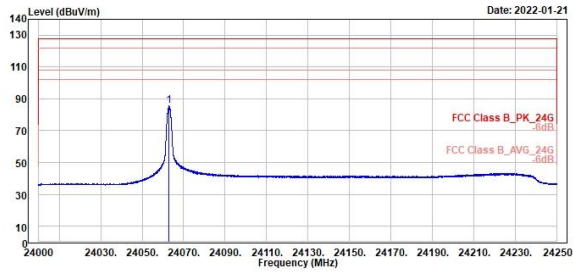
Vertical_Average



TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



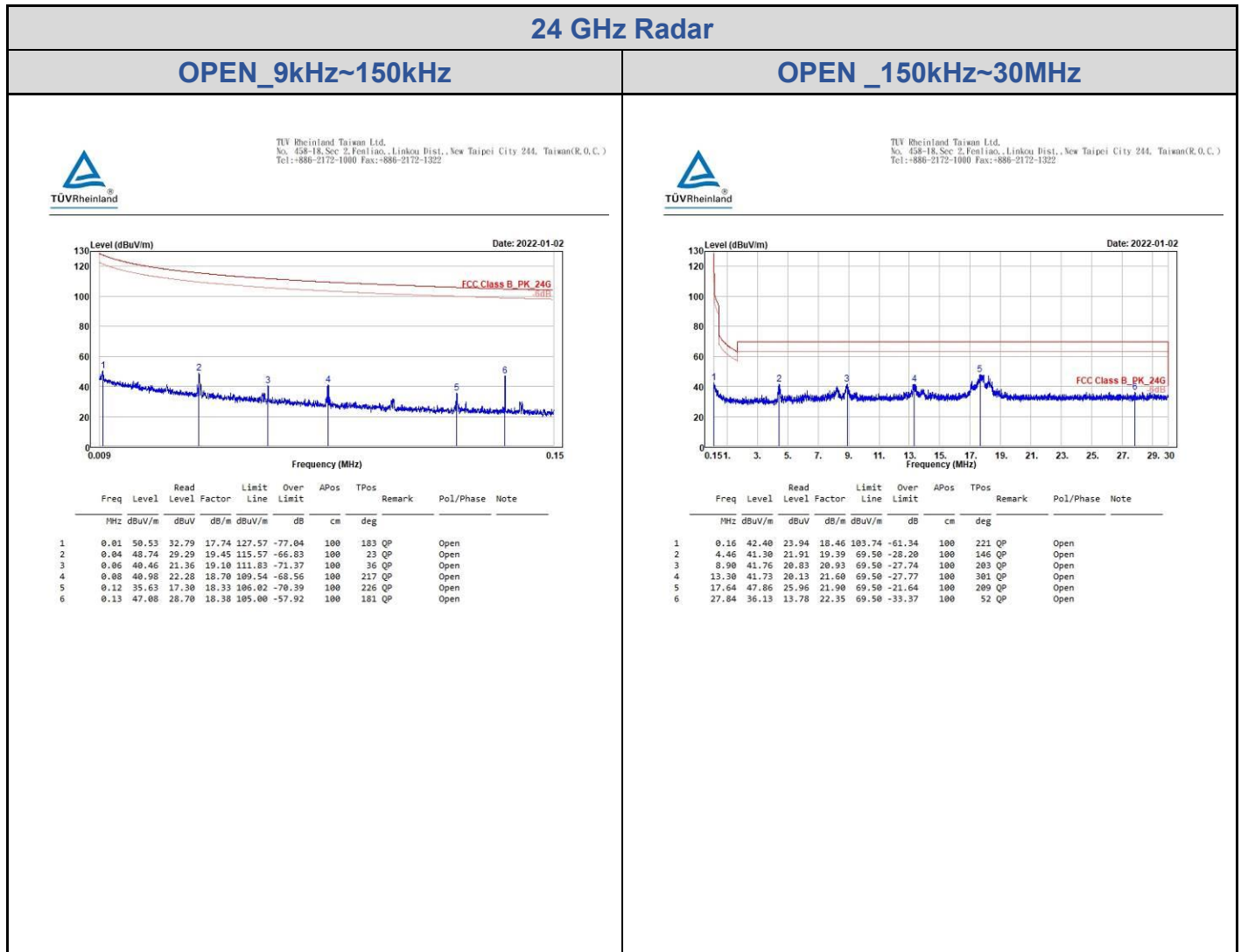
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



1	24063.00	85.62	82.18	3.44	107.96	-22.34	100	359	Average	Horizontal
---	----------	-------	-------	------	--------	--------	-----	-----	---------	------------

1	24062.97	84.53	81.09	3.44	107.96	-23.43	100	357	Average	Vertical
---	----------	-------	-------	------	--------	--------	-----	-----	---------	----------

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz
<8T4R>



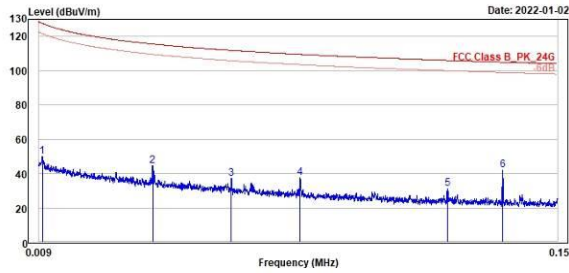
24 GHz Radar

CLOSE_9kHz~150kHz

CLOSE_150kHz~30MHz



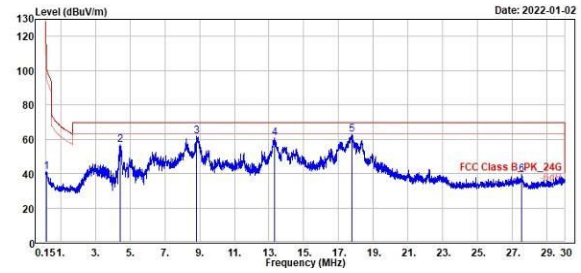
TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	49.99	32.25	17.74	127.68	-77.61	100	126 QP	Close
2	0.04	44.39	24.94	19.45	115.56	-71.17	100	138 QP	Close
3	0.06	37.05	17.95	19.10	111.83	-74.78	100	360 QP	Close
4	0.08	37.59	18.89	18.70	109.53	-71.94	100	198 QP	Close
5	0.12	30.97	12.64	18.33	106.01	-75.04	100	360 QP	Close
6	0.14	41.92	23.54	18.38	104.98	-63.06	100	281 QP	Close

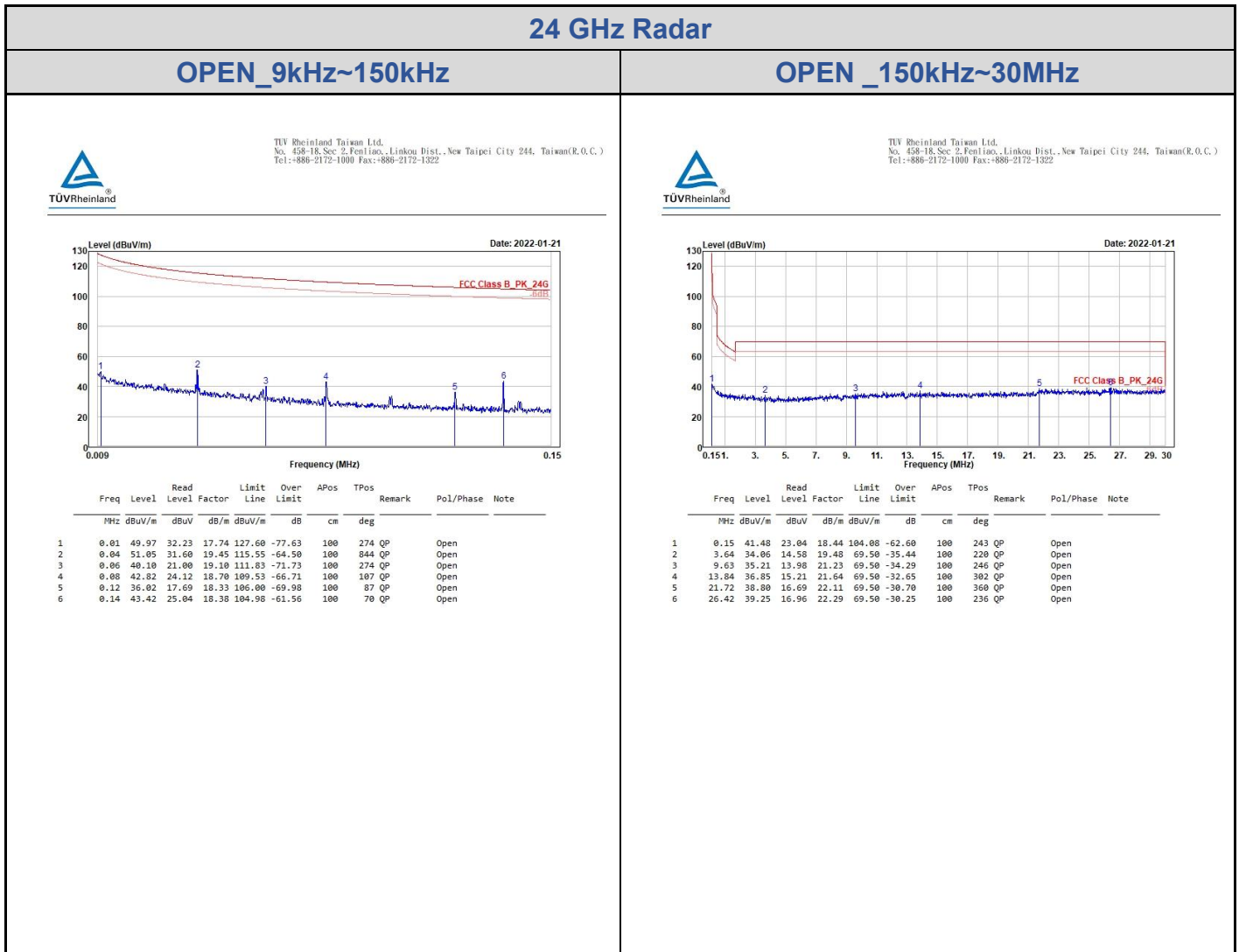


TUV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.18	40.97	22.41	18.56	102.36	-61.39	100	303 QP	Close
2	4.45	56.04	37.55	19.39	69.50	-12.56	100	58 QP	Close
3	8.85	61.55	40.64	20.91	69.50	-7.95	100	241 QP	Close
4	13.31	60.76	39.16	21.60	69.50	-8.74	100	99 QP	Close
5	17.78	62.79	40.88	21.91	69.50	-6.71	100	323 QP	Close
6	27.52	39.78	17.44	22.34	69.50	-29.72	100	299 QP	Close

<1T1R>



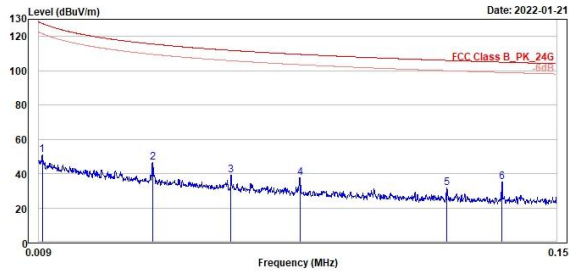
24 GHz Radar

CLOSE_9kHz~150kHz

CLOSE_150kHz~30MHz



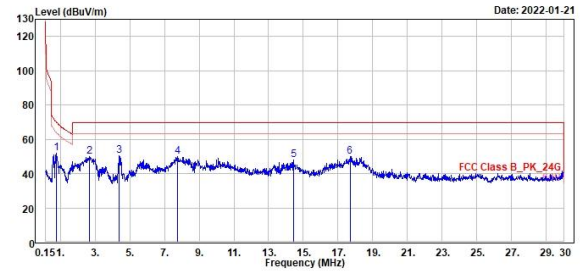
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, FenYao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	50.05	33.11	17.74	127.60	-76.75	100	360 QP	Close
2	0.04	46.59	27.14	19.45	115.55	-68.96	100	161 QP	Close
3	0.06	39.06	19.96	19.10	111.83	-72.77	100	82 QP	Close
4	0.08	37.78	19.08	18.70	109.52	-71.74	100	211 QP	Close
5	0.12	31.58	13.25	18.33	106.01	-74.43	100	4 QP	Close
6	0.14	35.27	16.89	18.38	104.98	-69.71	100	174 QP	Close

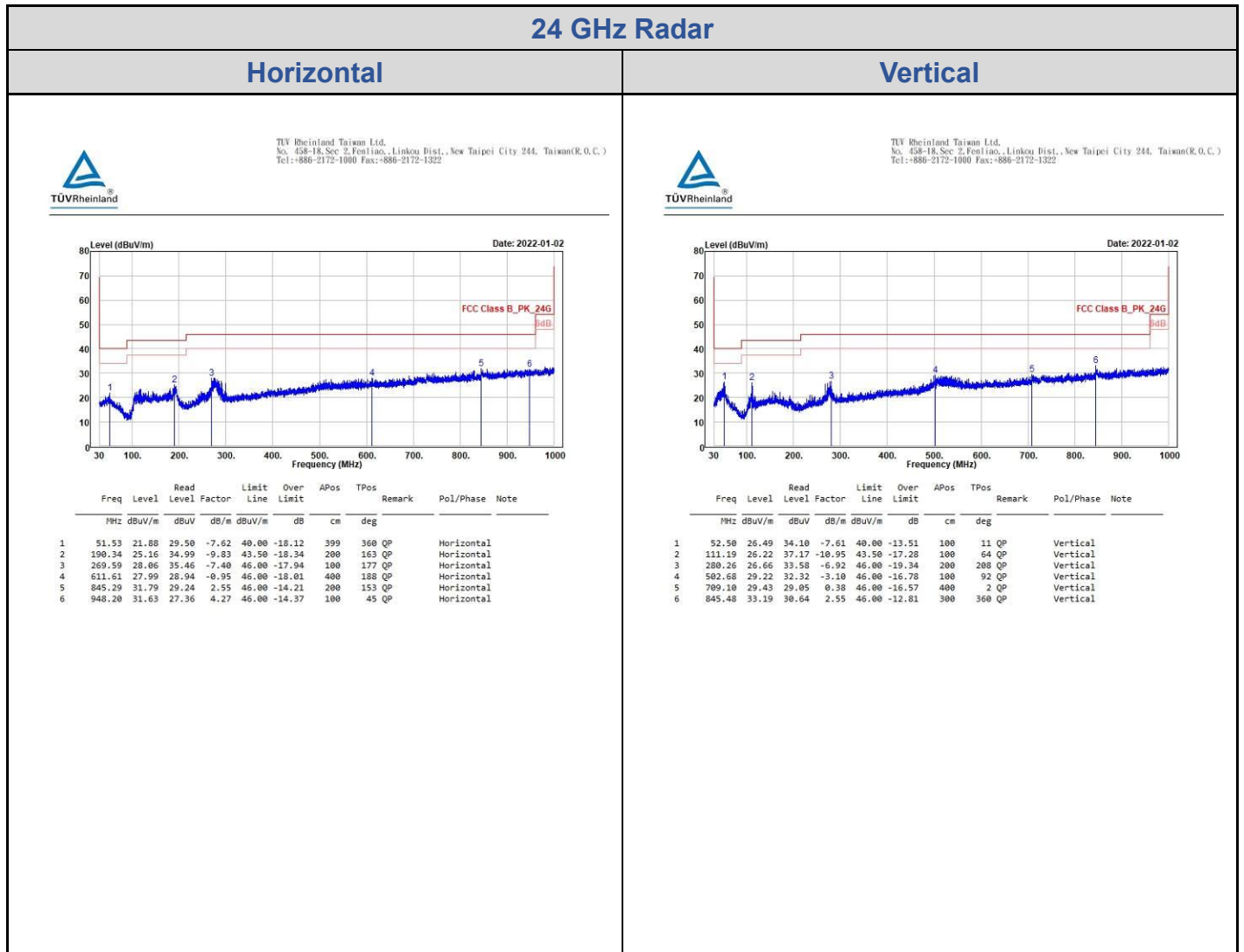


TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, FenYao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

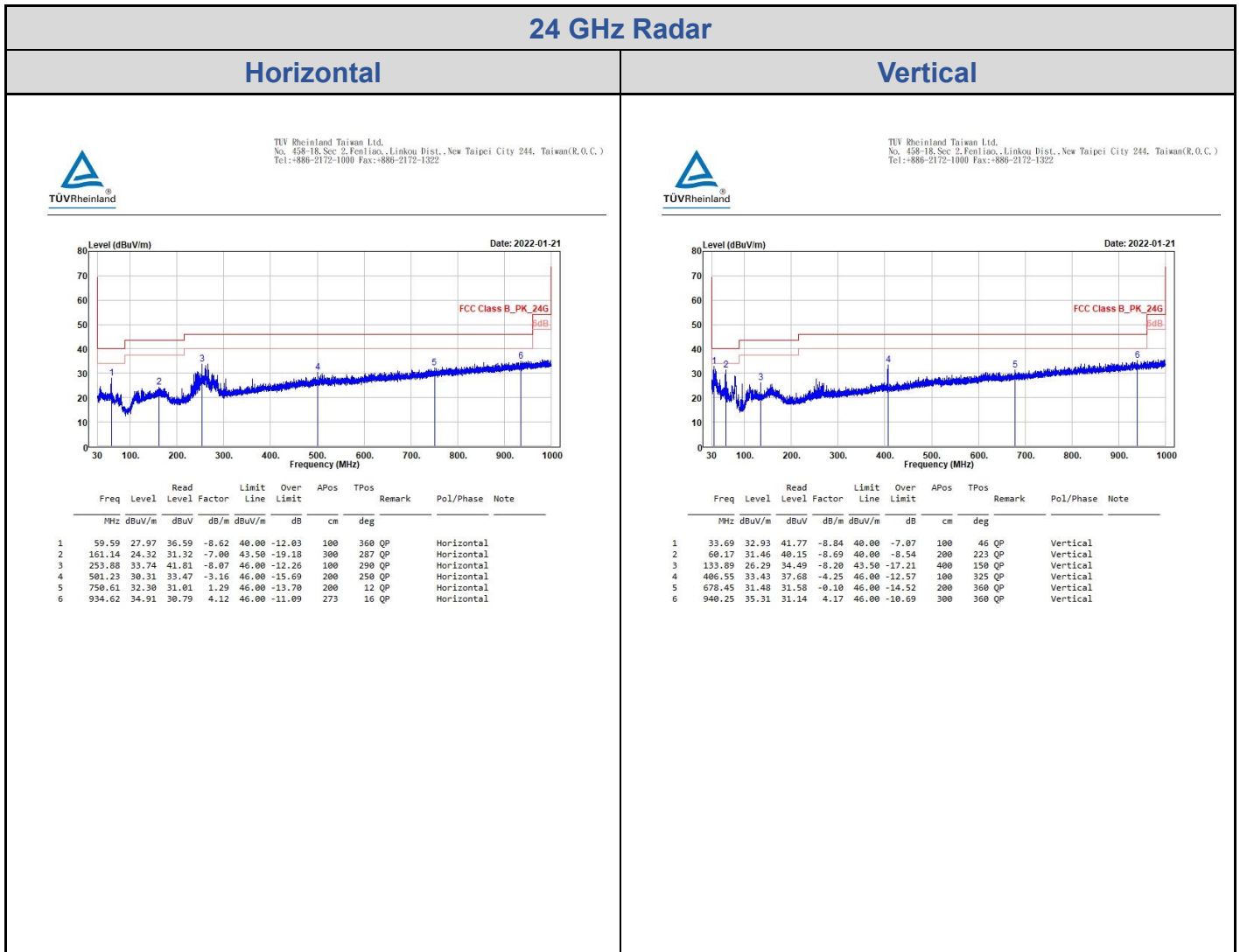


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.76	51.81	32.65	19.16	69.97	-10.16	100	283 QP	Close
2	2.69	49.93	30.43	19.50	69.50	-19.57	100	66 QP	Close
3	4.40	50.45	31.05	19.40	69.50	-19.05	100	25 QP	Close
4	7.73	50.07	29.61	20.46	69.50	-19.43	100	200 QP	Close
5	14.45	48.01	26.33	21.68	69.50	-21.49	100	25 QP	Close
6	17.69	50.04	28.14	21.90	69.50	-19.46	100	79 QP	Close

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
<8T4R>



<1T1R>

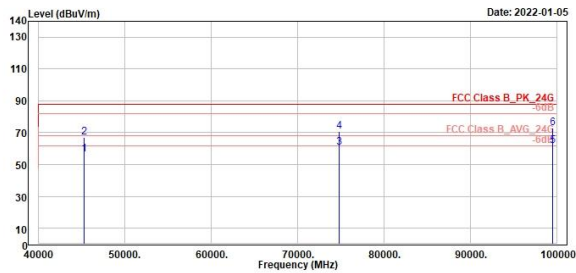


Spurious Emissions, Tx Mode, 1GHz ~ 100GHz
<8T4R>



24 GHz Radar
Horizontal_40GHz~100GHz
Vertical_40GHz~100GHz

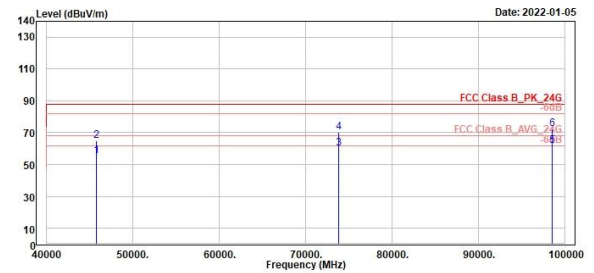

TÜV Rheinland Taiwan Ltd.
 No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



Line	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	45235.00	56.29	4.73	51.56	67.96	-11.67	150	124	Average	Horizontal		
2	45235.00	66.90	15.34	51.56	67.96	-21.06	150	124	Peak	Horizontal		
3	74810.00	60.46	1.65	58.81	67.96	-7.50	150	29	Average	Horizontal		
4	74810.00	70.62	11.81	58.81	67.96	-17.34	150	29	Peak	Horizontal		
5	99552.50	61.96	1.56	60.40	67.96	-6.00	150	247	Average	Horizontal		
6	99552.50	73.01	12.61	60.40	67.96	-14.95	150	247	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
 No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



Line	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	45738.00	55.27	4.82	50.45	67.96	-12.69	150	267	Average	Vertical		
2	45738.00	64.83	14.38	50.45	67.96	-23.13	150	267	Peak	Vertical		
3	73865.00	60.04	1.58	58.46	67.96	-7.92	150	295	Average	Vertical		
4	73865.00	70.19	11.73	58.46	67.96	-17.77	150	295	Peak	Vertical		
5	98580.00	61.75	1.59	60.16	67.96	-6.21	150	294	Average	Vertical		
6	98580.00	72.34	12.18	60.16	67.96	-15.62	150	294	Peak	Vertical		

<1T1R>

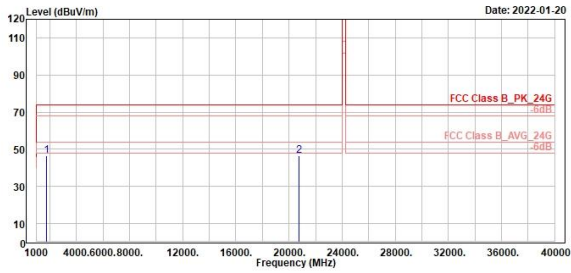
24 GHz Radar

Horizontal_1GHz~40GHz

Vertical_1GHz~40GHz



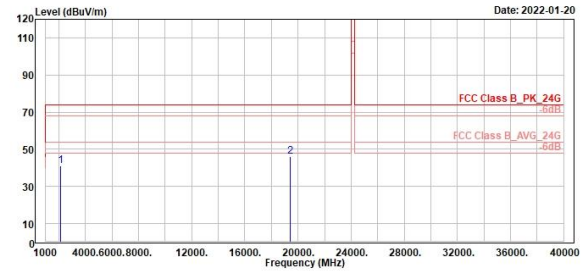
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



1	2
1756.00	20771.00
46.49	46.53
63.76	-0.06
-17.36	74.00
-27.69	-27.47
265	480
0	84
Peak	Peak
Horizontal	Horizontal



TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



1	2
2133.00	19408.00
41.11	46.08
56.37	-1.81
-15.26	74.00
-32.89	-27.92
280	166
90	360
Peak	Peak
Vertical	Vertical

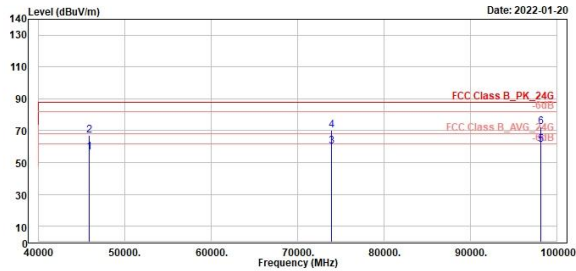
24 GHz Radar

Horizontal_40GHz~100GHz

Vertical_40GHz~100GHz



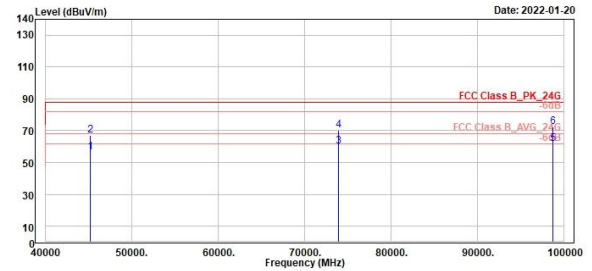
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	45825.29	56.39	4.63	51.76	67.96	-11.57	150	238 Average	Horizontal
2	45825.29	66.96	15.20	51.76	87.96	-21.00	150	238 Peak	Horizontal
3	73952.50	60.24	1.75	58.49	67.96	-7.72	150	285 Average	Horizontal
4	73952.50	70.33	11.84	58.49	87.96	-17.63	150	285 Peak	Horizontal
5	98135.00	61.42	1.37	60.05	67.96	-6.54	150	64 Average	Horizontal
6	98135.00	72.14	12.09	60.05	87.96	-15.82	150	64 Peak	Horizontal



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	45162.00	56.31	6.22	50.09	67.96	-11.65	150	247 Average	Vertical
2	45162.00	66.93	16.84	50.09	87.96	-21.03	150	247 Peak	Vertical
3	73952.50	60.11	1.62	58.49	67.96	-7.85	150	291 Average	Vertical
4	73952.50	70.33	11.84	58.49	87.96	-17.63	150	291 Peak	Vertical
5	98790.00	61.88	1.67	60.21	67.96	-6.08	150	173 Average	Vertical
6	98790.00	72.00	12.39	60.21	87.96	-15.36	150	173 Peak	Vertical