



Prüfbericht-Nr.: <i>Test report no.:</i>	CN244CH8 001	Auftrags-Nr.: <i>Order no.:</i>	48251136	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-08-15	
Auftraggeber: <i>Client:</i>	Vecos Europe B.V. Esp 237, 5633 AD Eindhoven, The Netherlands			
Prüfgegenstand: <i>Test item:</i>	Vecos W1 Connection Box			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Vecos W1 HUB			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (BLE)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-09-25			
Prüfmuster-Nr.: <i>Test sample no:</i>	A003827969-034 A003827969-035			
Prüfzeitraum: <i>Testing period:</i>	2024-10-07 - 2024-10-29			
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			
zusammengestellt von: <i>compiled by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: Date: 2024-11-06		Ausstellungsdatum: Issue date: 2024-11-06		
Stellung / Position: Senior Project Manager		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 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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>				

Prüfbericht-Nr.:
Test report no.:

CN244CH8 001

Seite 2 von 29
Page 2 of 29

Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
5.1.3	15.247(a)(2)	6 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(e)	Power Spectral Density	Pass
5.1.5	15.247(d)	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	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.

Contents

HISTORY OF THIS TEST REPORT	6
1. GENERAL REMARKS	7
1.1 COMPLEMENTARY MATERIALS.....	7
1.2 DECISION RULE OF CONFORMITY	7
2. TEST SITES	8
2.1 TEST LABORATORY	8
2.2 TEST FACILITY.....	8
2.3 TRACEABILITY	9
2.4 CALIBRATION	9
2.5 MEASUREMENT UNCERTAINTY	9
3. GENERAL PRODUCT INFORMATION.....	10
3.1 PRODUCT FUNCTION AND INTENDED USE	10
3.2 SYSTEM DETAILS AND RATINGS.....	10
3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS	11
3.4 SUBMITTED DOCUMENTS.....	11
4. TEST SET-UP AND OPERATION MODES	12
4.1 PRINCIPLE OF CONFIGURATION SELECTION	12
4.2 CARRIER FREQUENCY AND CHANNEL	12
4.3 TEST OPERATION AND TEST SOFTWARE.....	13
4.4 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	14
4.5 TEST SETUP DIAGRAM	15
5. TEST RESULTS	17
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	17
5.1.1 <i>Antenna Requirement</i>	<i>17</i>
5.1.2 <i>Peak Output Power</i>	<i>18</i>
5.1.3 <i>6 dB Bandwidth and 99% Occupied Bandwidth.....</i>	<i>20</i>
5.1.4 <i>Power Spectral Density.....</i>	<i>21</i>
5.1.5 <i>Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth</i>	<i>22</i>
5.1.6 <i>Radiated Spurious Emissions and Band Edges</i>	<i>23</i>
5.2 MAINS EMISSION	28
5.2.1 <i>Mains Conducted Emission.....</i>	<i>28</i>

Prüfbericht - Nr.: **CN244CH8 001**
Test Report No.

Seite 5 von 29
Page 5 of 29

APPENDIX A - TEST RESULT OF CONDUCTED TEST

APPENDIX B - TEST RESULT OF RADIATED EMISSIONS FOR INTERNAL ANTENNA

APPENDIX C- TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION FOR EXTERNAL ANTENNA

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

Prüfbericht - Nr.: **CN244CH8 001**
Test Report No.

Seite 6 von 29
Page 6 of 29

HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2024-11-06

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 Conducted Test

Appendix B - Test Result of Radiated Emissions for Internal Antenna

Appendix C- Test Result of Radiated Emissions & Mains Conducted Emission for External Antenna

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

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.: 180491
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
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Vecos W1 Connection Box. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface.

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	Vecos W1 Connection Box
Type Identification	Vecos W1 HUB
FCC ID	2ACYAW1HUB

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	2 MHz
Channel Number	40
Data Rate	1Mbps, 2Mbps
Operation Voltage	27 Vdc
Modulation	GFSK
Maximum Output Power (mW)	4.82
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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 test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Power Setting		
Frequency (MHz)	Data Rate	
	1Mbps	2Mbps
2402	8	8
2440	8	8
2480	7	8

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

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	nRF Connect for Desktop V5.0.2_Direct Test ModeV2.4.1
---------------	---

The samples were used as follows:

A003827969-034 for conducted test

A003827969-035 for radiated test

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

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	-	√	√	-	For Internal Antenna
-	√	√	√	√	For External Antenna

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Z-plane for internal antenna and Y-plane for external antenna.
2. "-" means no effect.
3. The conducted and mains conducted emission tests are only evaluated the worst-case.

Antenna Port Conducted Measurement

- ☒ 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)	Date Rate (Mbps)
-	2402 to 2480	2402, 2440, 2480	1
-	2402 to 2480	2402, 2440, 2480	2

Radiated Spurious Emissions (Above 1 GHz)

- ☒ 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)	Date Rate (Mbps)
Tx			
-	2402 to 2480	2402, 2440, 2480	1
-	2402 to 2480	2402, 2440, 2480	2
Rx			
-	2402 to 2480	2440	1

Radiated Spurious Emissions (Below 1 GHz)

- ☒ 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)	Date Rate (Mbps)
Tx / Rx			
-	2402 to 2480	2440	1

Mains Conducted 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 (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2402 to 2480	2440	1

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	24.1-24.6 °C	58.2-62.3 %	Andy Chen
Radiated Spurious Emissions above 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
			Chuan Chu
Radiated Spurious Emissions below 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
			Chuan Chu
Mains Conducted Emission	21.2-23.3 °C	57-59 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

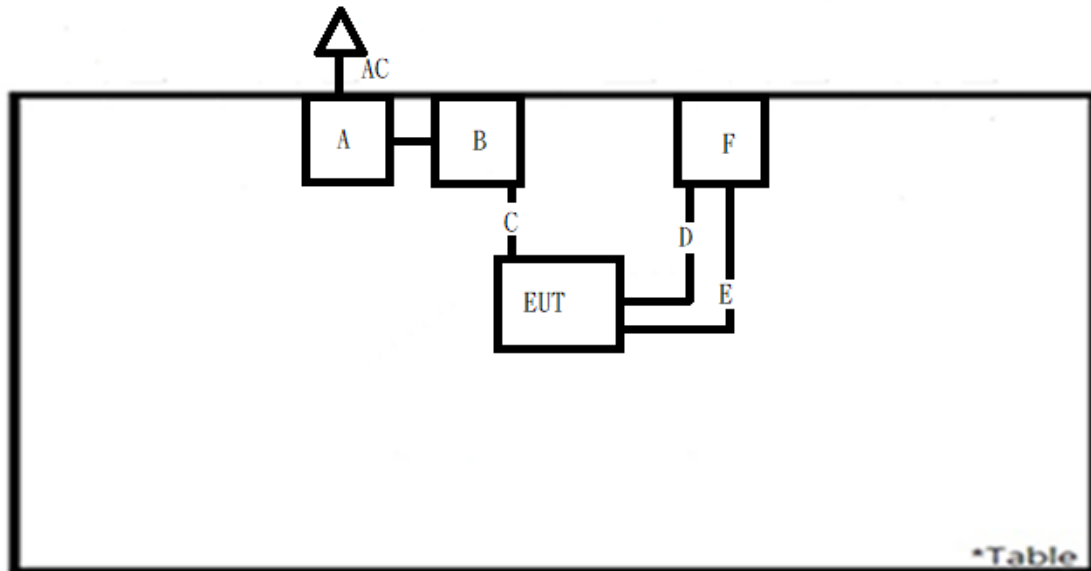
No.	Product	Brand	Model	Description
G	External antenna	SUNNYWAY	SW19042EB78	100 cm non-shielded cable w/o core
F	LBC Touch screen	VECOS	LBC 3.0	Radiated and Mains Conducted Test
A	Power Supply	MEAN WELL	HEP-185-24A	
-	Power Supply	MEAN WELL	HLG-185H-24TE10	--
-	Power Supply	MEAN WELL	HLG-185H-24TE11	--

Support Unit

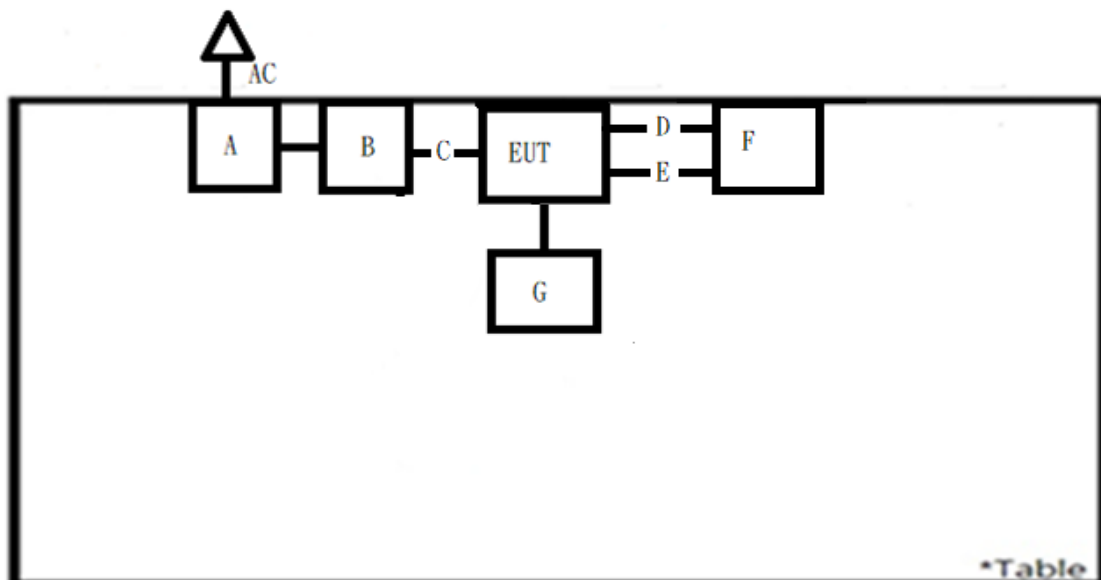
No.	Description	Brand	Model	Remark
Radiated Test for Internal Antenna				
B	Power Connection Box	VECOS	VECOS-01	--
C	Cable	VECOS	VECOS-02	280 cm non-shielded cable w/o core
D	Cable	VECOS	VECOS-03	280 cm non-shielded cable w/o core
E	LAN Cable	VECOS	VECOS-04	300 cm non-shielded cable w/o core
Radiated Test for External Antenna				
B	Power Connection Box	VECOS	VECOS-01	--
C	Cable	VECOS	VECOS-02	280 cm non-shielded cable w/o core
D	Cable	VECOS	VECOS-03	280 cm non-shielded cable w/o core
E	LAN Cable	VECOS	VECOS-04	300 cm non-shielded cable w/o core
Mains Conducted Test for External Antenna				
B	Power Connection Box	VECOS	VECOS-01	--
C	Cable	VECOS	VECOS-02	280 cm non-shielded cable w/o core
D	Cable	VECOS	VECOS-03	280 cm non-shielded cable w/o core
E	LAN Cable	VECOS	VECOS-04	300 cm non-shielded cable w/o core
Conducted Test				
-	Notebook	DELL	Latitude 7490	--

4.5 Test Setup Diagram

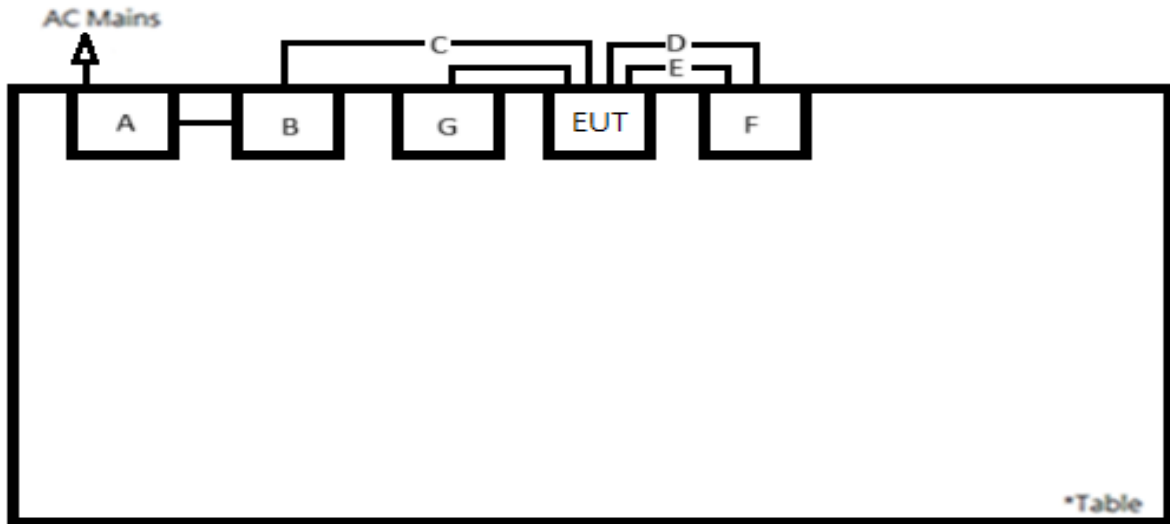
<Radiated Spurious Emissions Mode for Internal Antenna>



<Radiated Spurious Emissions Mode for External Antenna>



<Mains Conducted Emission Mode for External Antenna>



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 antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Position	Brand Name	Model No.	Antenna Type	Antenna Gain (dBi)
Internal	AME	W1 HUB PCB antenna	PCB Antenna	0
External	SUNNYWAY	SWE012	Dipole Antenna	1.91

Refer to EUT photo for details.

Prüfbericht - Nr.: CN244CH8 001
Test Report No.

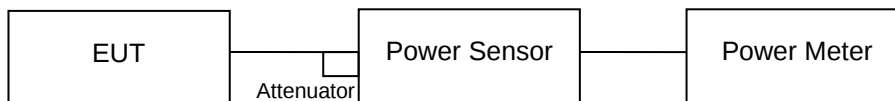
Seite 18 von 29
 Page 18 of 29

5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

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
Power Meter	Anritsu	ML2495A	1901008	2024/3/12	2025/3/11	2024/10/7	2024/10/23
Power Sensor	Anritsu	MA2411B	1725269	2024/3/12	2025/3/11	2024/10/7	2024/10/23

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result

Peak Output Power

<1Mbps>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2402	6.81	4.80	30
Middle Channel	2440	6.83	4.82	30
High Channel	2480	6.17	4.14	30

<2Mbps>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2402	6.80	4.79	30
Middle Channel	2440	6.82	4.81	30
High Channel	2480	6.67	4.65	30

Average Power

<1Mbps>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	6.72	4.70
Middle Channel	2440	6.75	4.73
High Channel	2480	6.05	4.03

<2Mbps>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	6.71	4.69
Middle Channel	2440	6.74	4.72
High Channel	2480	6.59	4.56

Prüfbericht - Nr.: CN244CH8 001
Test Report No.

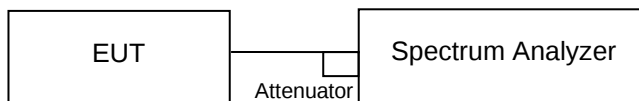
Seite 20 von 29
 Page 20 of 29

5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth

Limit The minimum 6 dB bandwidth shall be at least 500 kHz.

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
Spectrum Analyzer	R&S	FSV	101512	2024/02/22	2025/02/21	2024/10/7	2024/10/23

Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- For 99% occupied bandwidth measurement, 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 PEAK. 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

Please refer to Appendix A.

Prüfbericht - Nr.: **CN244CH8 001**
Test Report No.

Seite 21 von 29
 Page 21 of 29

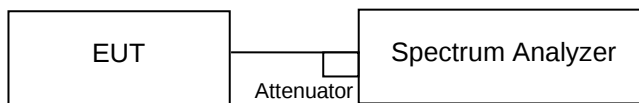
5.1.4 Power Spectral Density

Limit

The power spectral density shall not be greater than 8 dBm in any 3 kHz 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
Spectrum Analyzer	R&S	FSV	101512	2024/02/22	2025/02/21	2024/10/7	2024/10/23

Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

Please refer to Appendix A.

Prüfbericht - Nr.: CN244CH8 001
Test Report No.

Seite 22 von 29
 Page 22 of 29

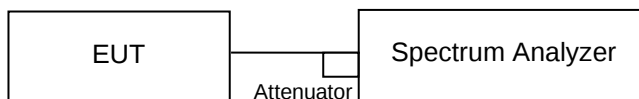
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20 dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

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
Spectrum Analyzer	R&S	FSV	101512	2024/02/22	2025/02/21	2024/10/7	2024/10/23

Test Procedure

Measurement procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Results

Please refer to Appendix A.

5.1.6 Radiated Spurious Emissions and Band Edges

Limit

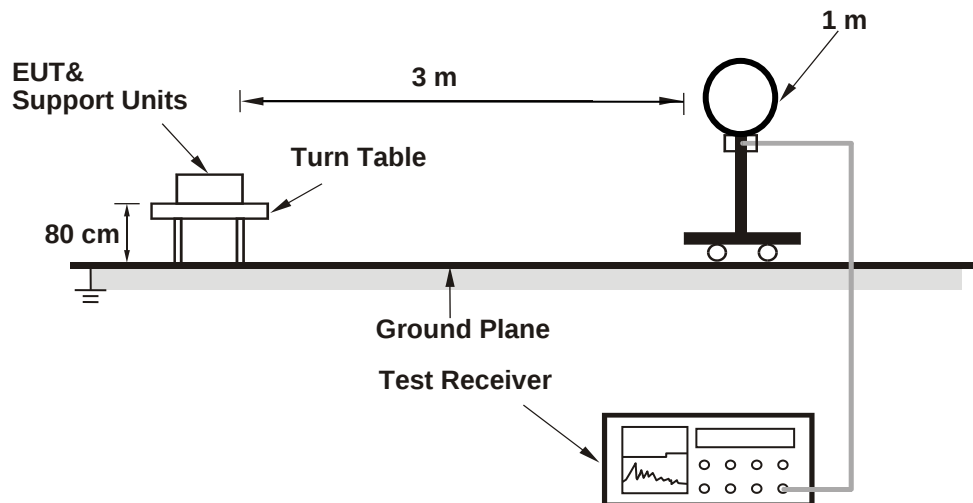
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

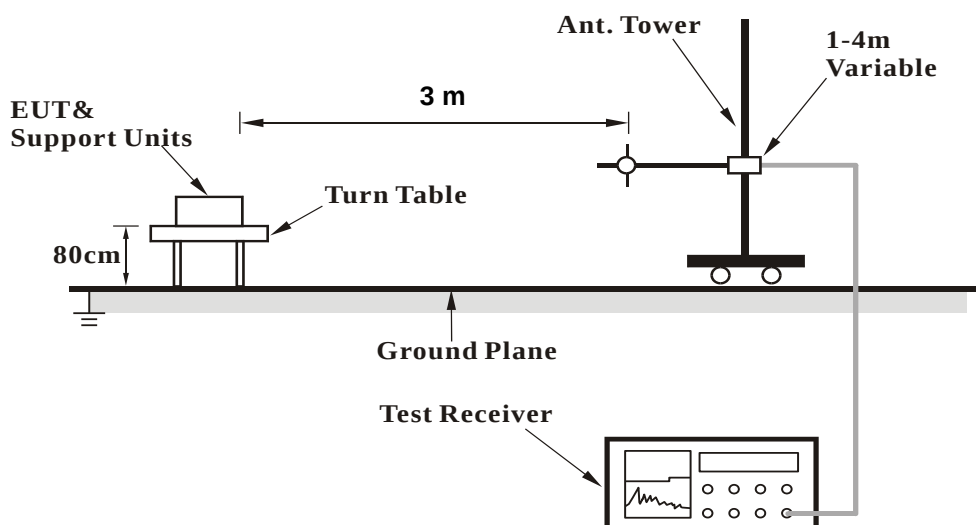
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

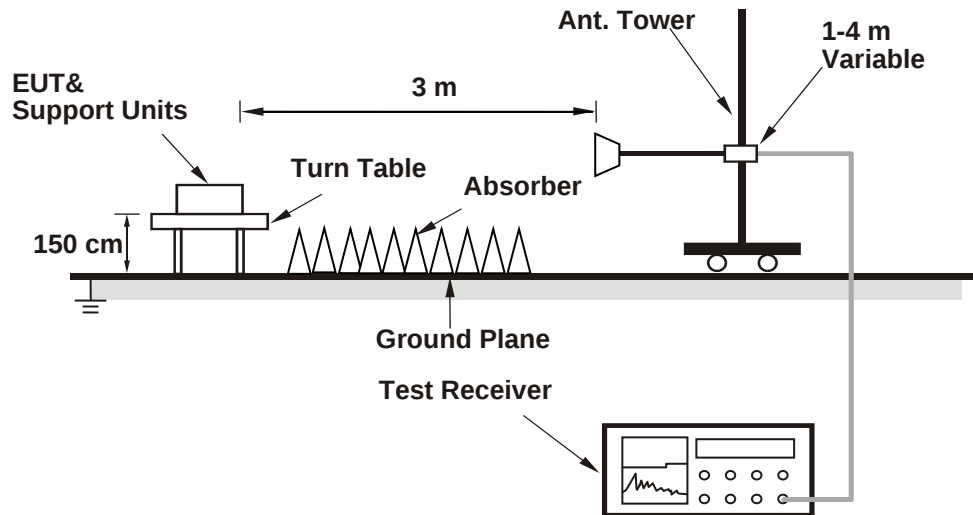
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



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

Prüfbericht - Nr.: CN244CH8 001
Test Report No.

Seite 25 von 29
Page 25 of 29

Test Instruments

Test Date: 2024/10/21 – 2024/10/23

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2024/4/30	2025/4/29
Horn Antenna	ETS-Lindgren	3117	00218929	2023/11/17	2024/11/15
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2024/4/30	2025/4/29
HF-AMP + AC source	EMCI	EMC051845SE	980633	2024/1/24	2025/1/22
HF-AMP + AC source	EMCI	EMC184045SE	980656	2024/1/18	2025/1/16
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz – 1 GHz					
Receiver	R&S	ESR7	102109	2024/2/22	2025/2/20
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2024/3/21	2025/3/20
LF-AMP	Agilent	8447D	2727A05146	2024/1/24	2025/1/22
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2024/2/22	2025/2/20
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/1/4	2025/1/2
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

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. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. 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.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

Prüfbericht - Nr.: **CN244CH8 001**
Test Report No.

Seite 27 von 29
Page 27 of 29

Test Results

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

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

Please refer to Appendix B and C.

5.2 Mains Emission

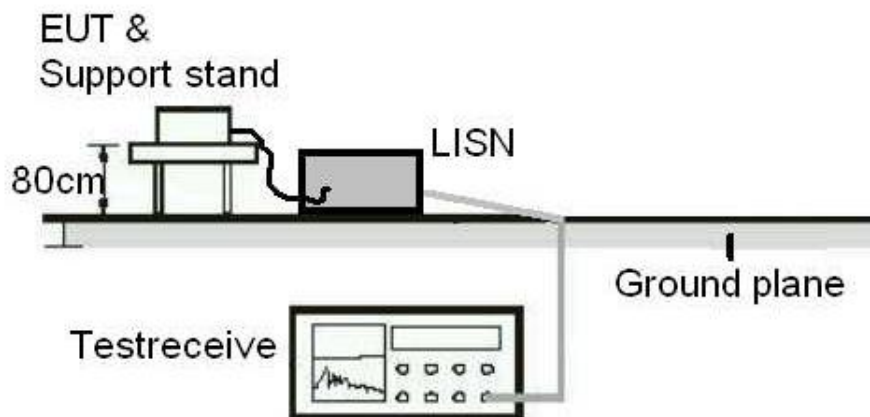
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Test Date: 2024/10/29

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101262	2023/12/27	2024/12/25
EMI Test Receiver	R&S	ESCI	101094	2023/11/27	2024/11/25

Prüfbericht - Nr.: **CN244CH8 001**
Test Report No.

Seite 29 von 29
Page 29 of 29

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

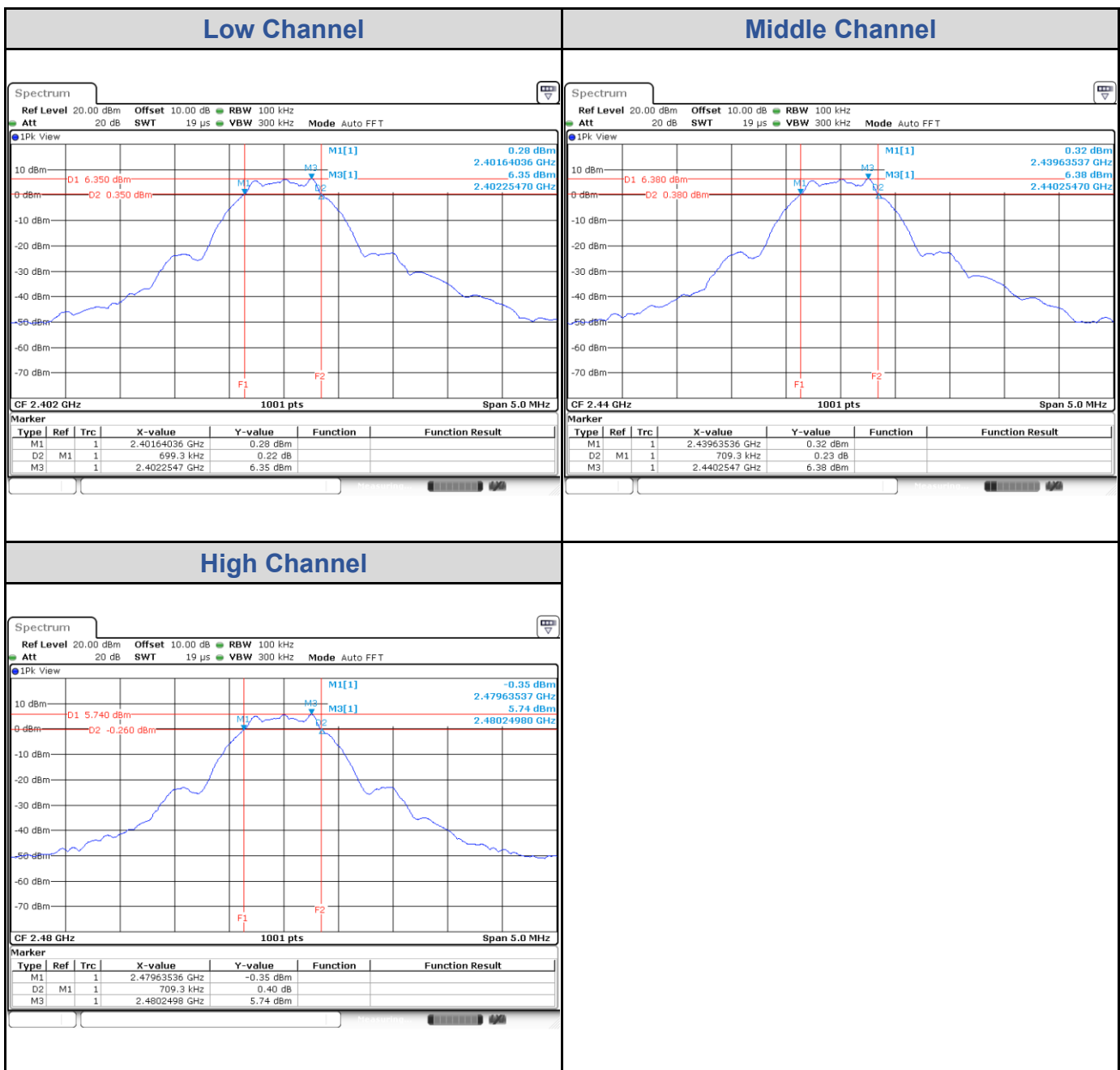
Please refer to Appendix C.

Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

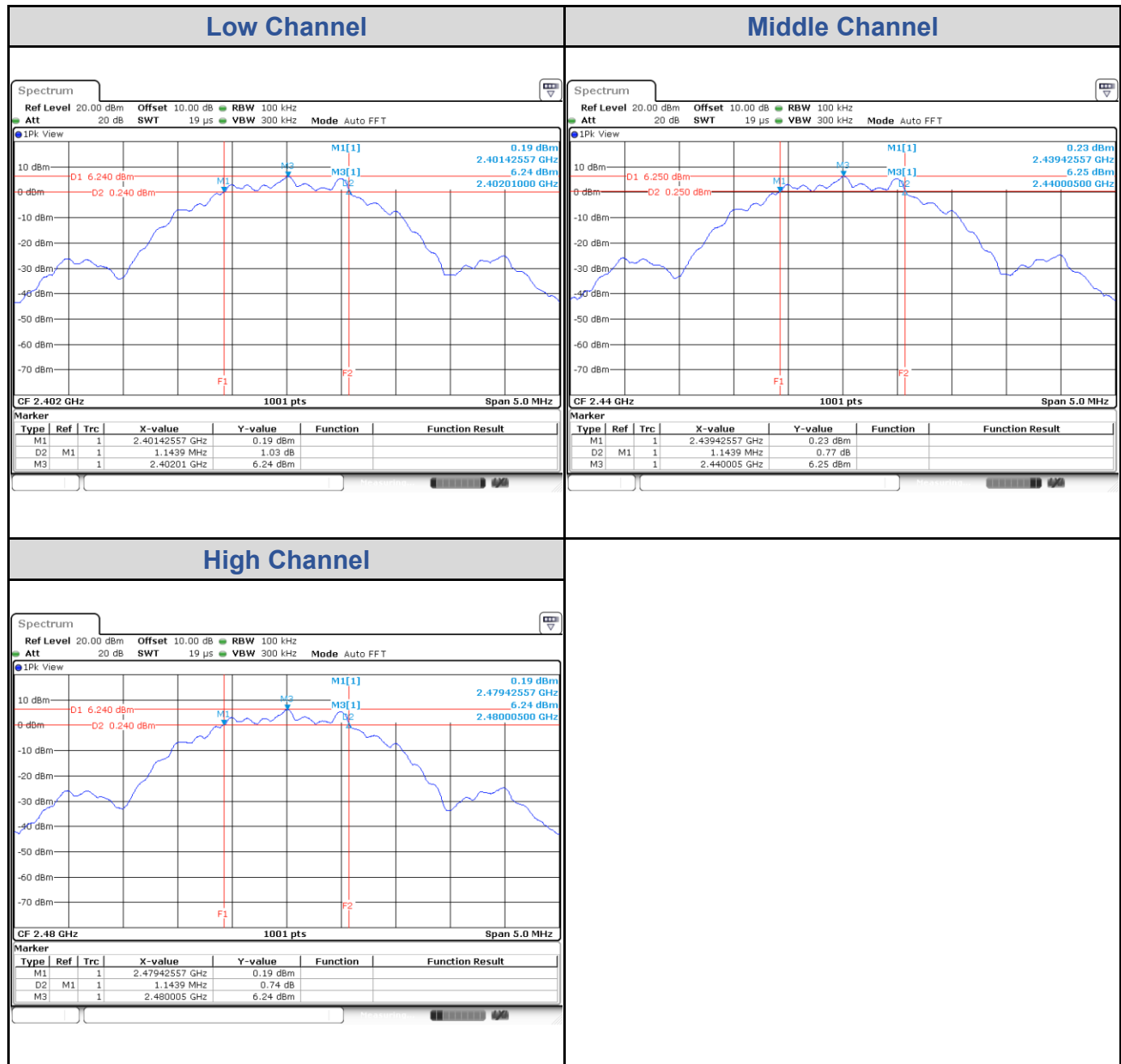
BLE_1M

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	699.3	> 500	Pass
Middle Channel	2440	709.3	> 500	Pass
High Channel	2480	709.9	> 500	Pass



BLE_2M

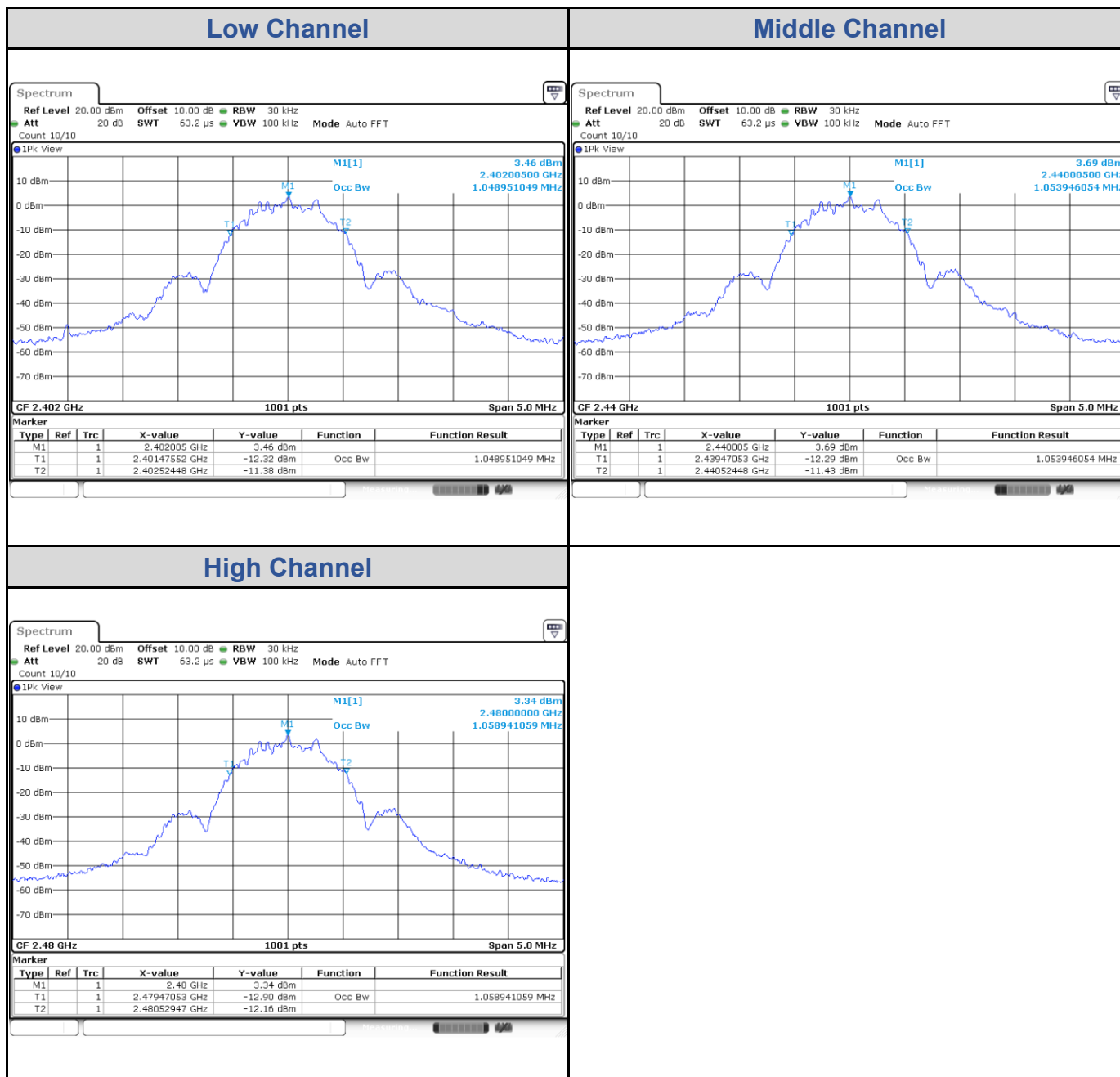
Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2402	1.14	> 500	Pass
Middle Channel	2440	1.14	> 500	Pass
High Channel	2480	1.14	> 500	Pass



Test Result of 99% Occupied Bandwidth

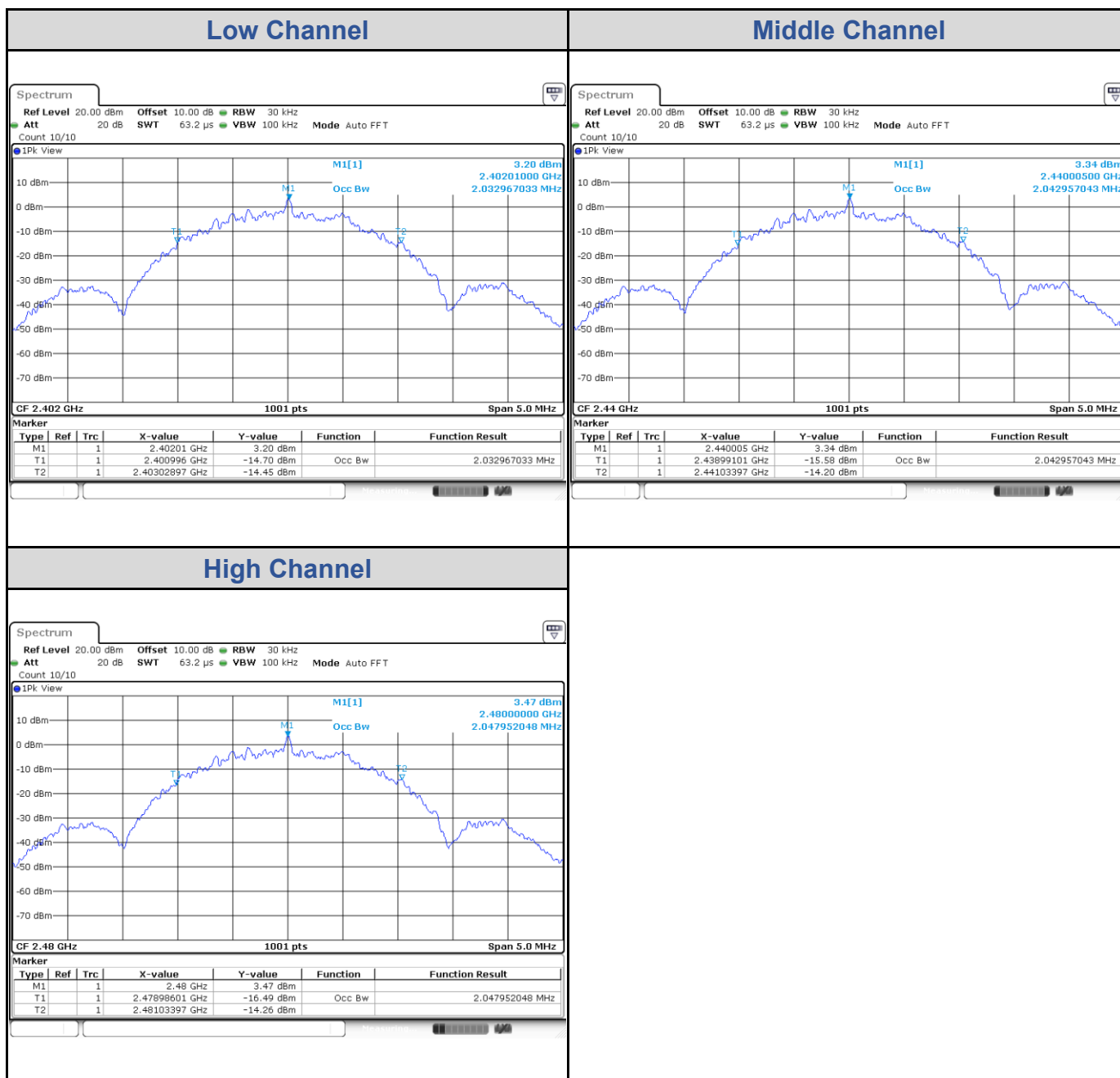
BLE_1M

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.05
Middle Channel	2440	1.05
High Channel	2480	1.06



BLE_2M

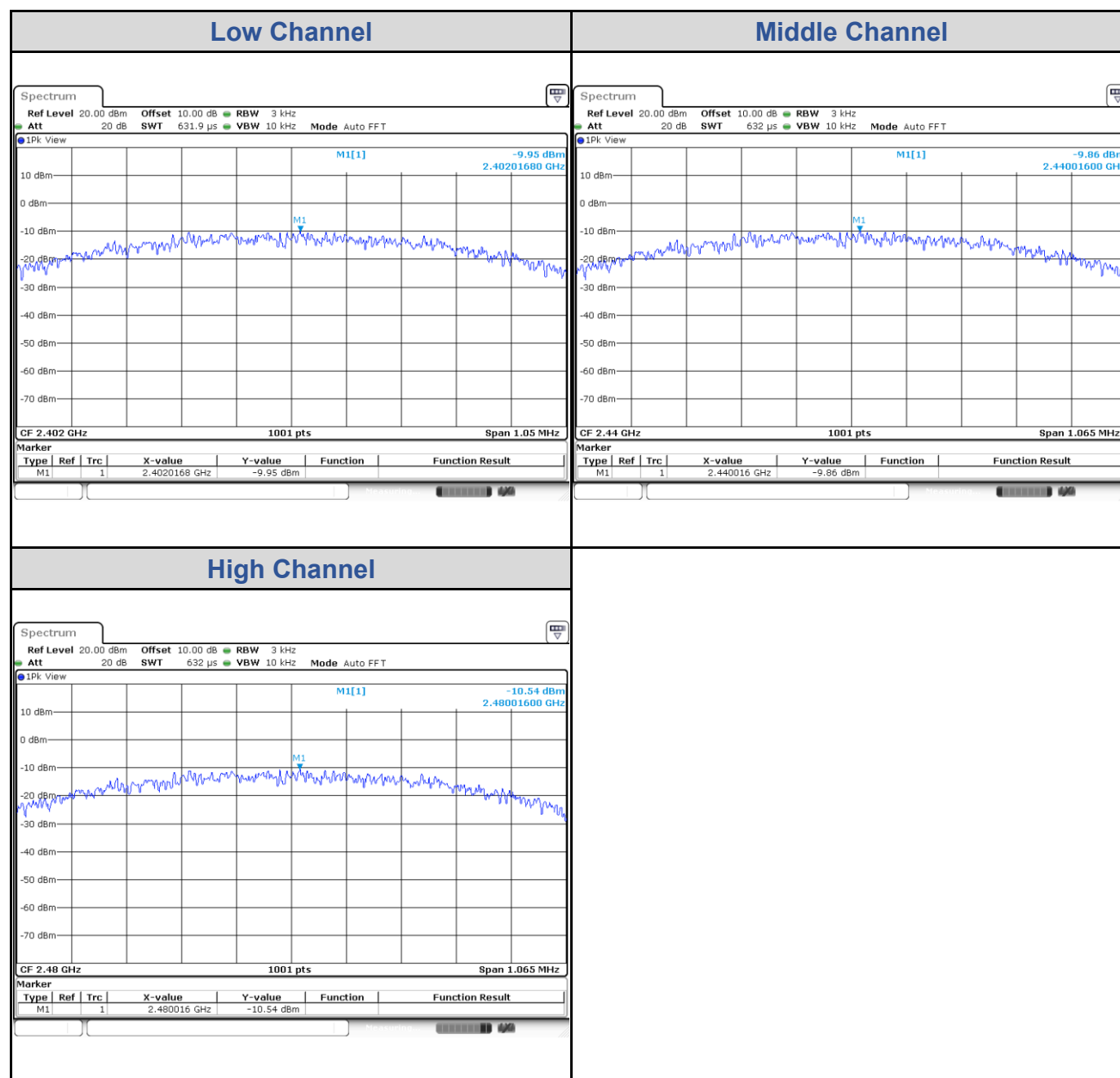
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2402	2.03
Middle Channel	2440	2.04
High Channel	2480	2.05



Test Result of Power Spectral Density

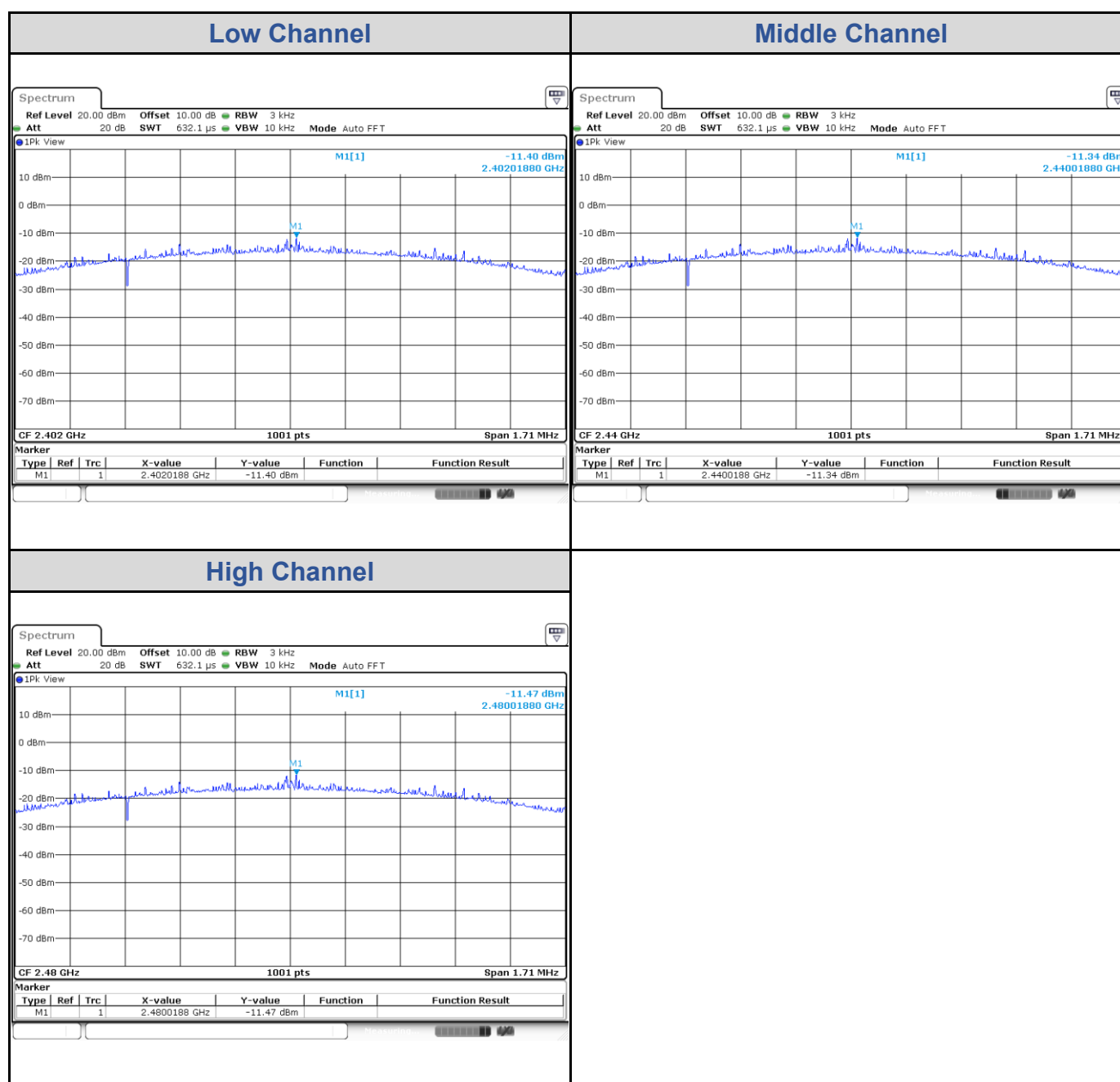
BLE_1M

Channel	Channel Frequency (MHz)	Power Density (dBm)	Limit (dBm)	Result
Low Channel	2402	-9.95	8	Pass
Middle Channel	2440	-9.86	8	Pass
High Channel	2480	-10.54	8	Pass



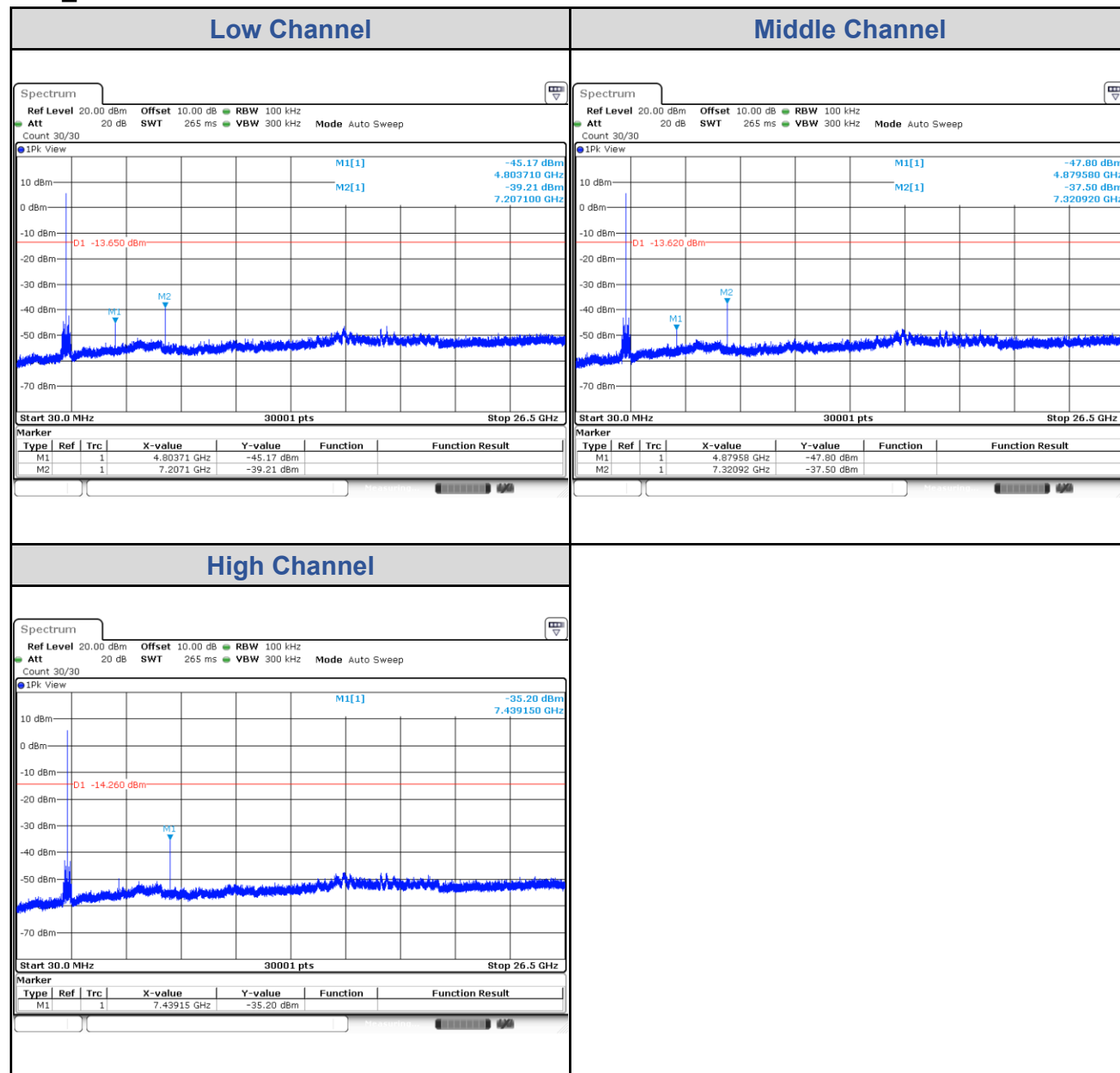
BLE_2M

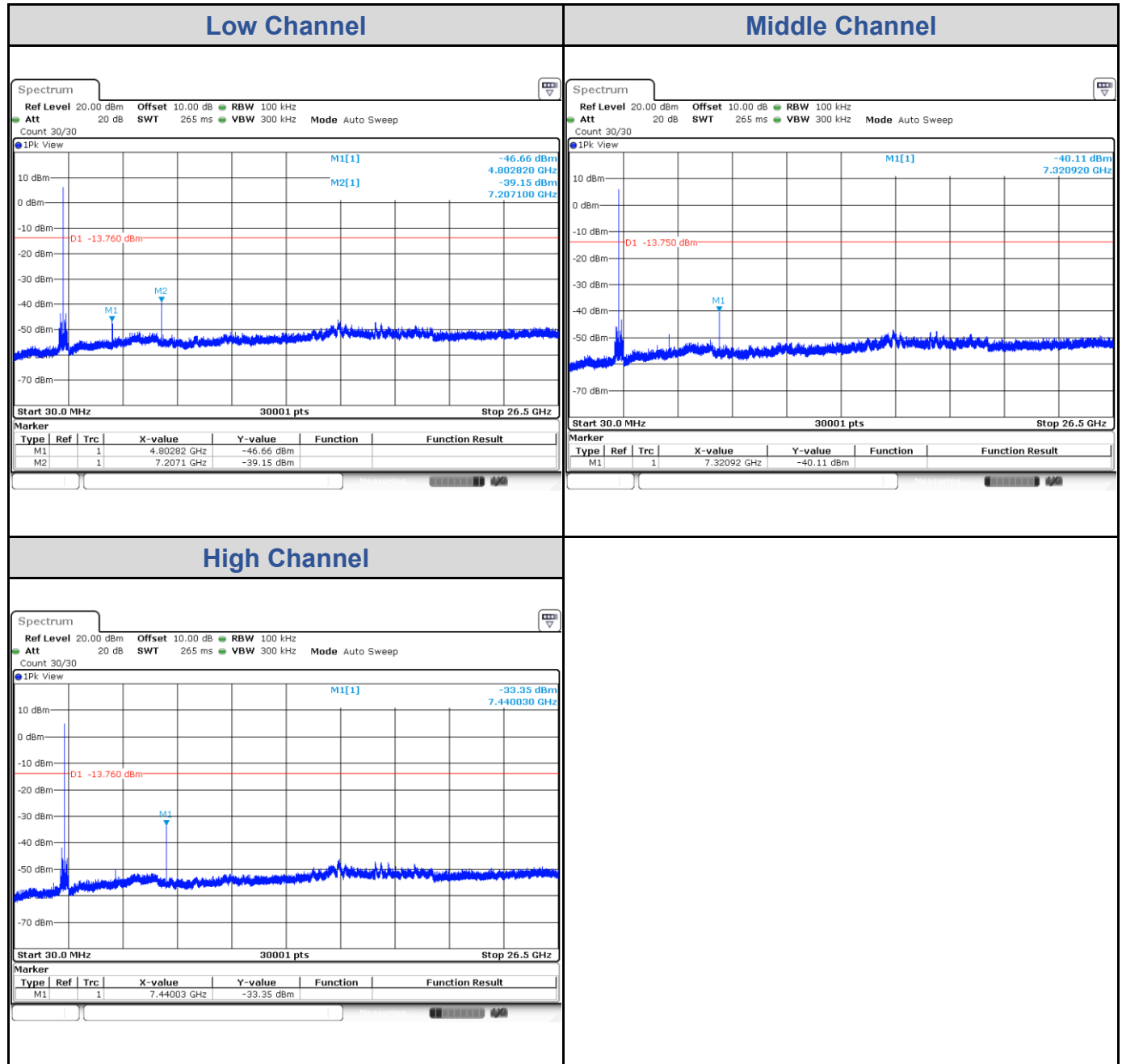
Channel	Channel Frequency (MHz)	Power Density (dBm)	Limit (dBm)	Result
Low Channel	2402	-11.40	8	Pass
Middle Channel	2440	-11.34	8	Pass
High Channel	2480	-11.47	8	Pass



Test Result of Conducted Spurious Emissions

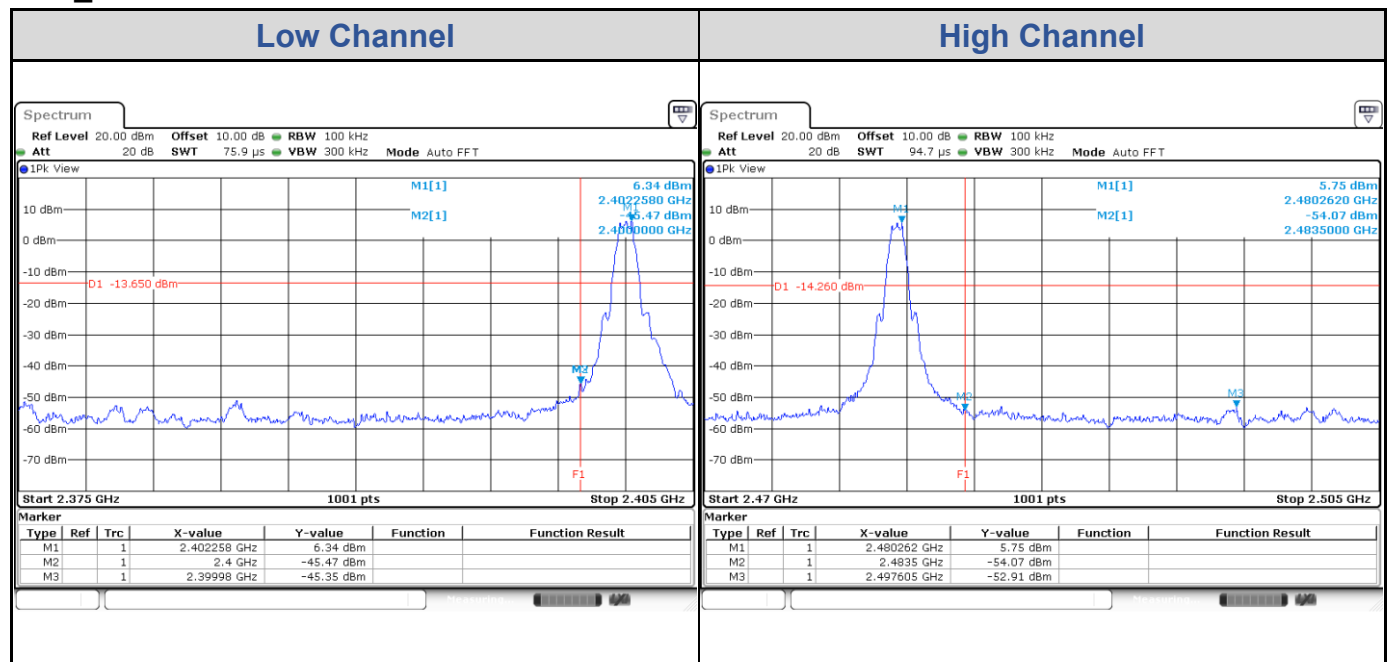
BLE_1M



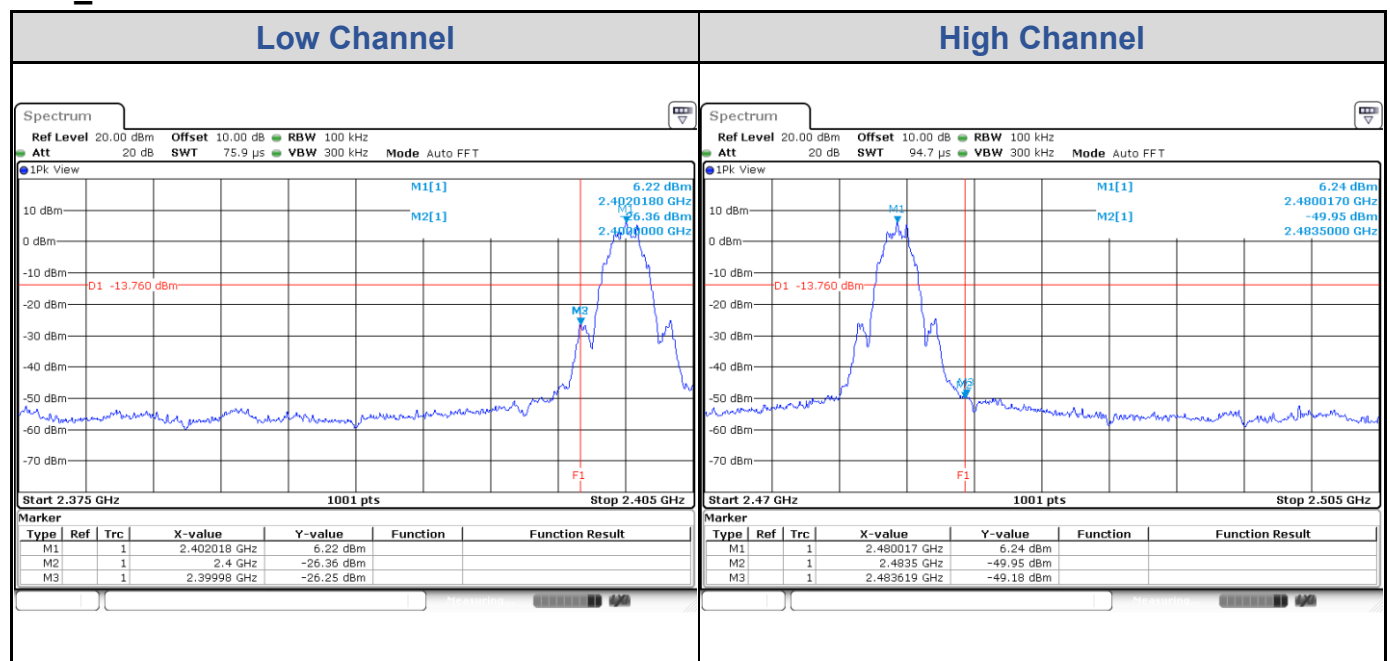
BLE_2M


Test Result of Conducted Band Edge

BLE_1M



BLE_2M



Appendix B: Test Results of Radiated Spurious Emissions for Internal Antenn

Band Edges, 2.31GHz ~ 2.5GHz

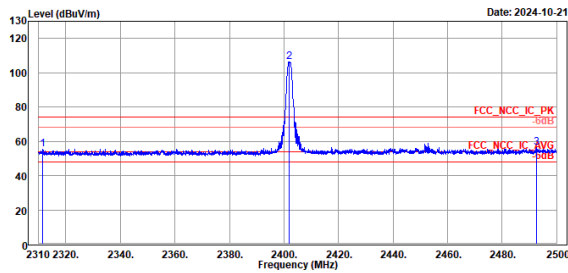
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



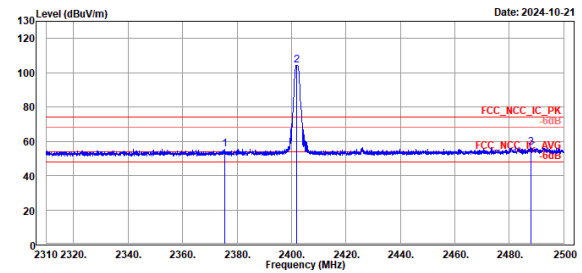
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2311.43	55.42	17.71	37.71	74.00	-18.58	386	355	Peak	Horizontal	
2 *	2402.00	106.06	67.99	38.07	74.00	32.06	386	355	Peak	Horizontal	
3	2492.50	56.24	17.96	38.28	74.00	-17.76	386	355	Peak	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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2375.50	55.51	17.53	37.98	74.00	-18.49	343	271	Peak	Vertical	
2 *	2402.00	104.27	66.20	38.07	74.00	30.27	343	271	Peak	Vertical	
3	2487.89	56.52	18.24	38.28	74.00	-17.48	343	271	Peak	Vertical	

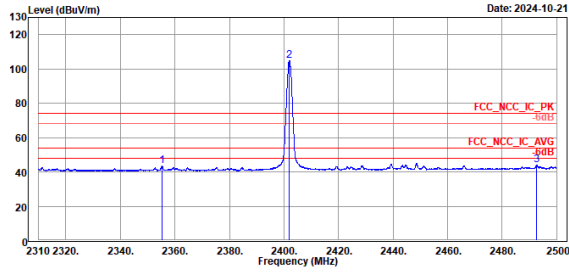
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



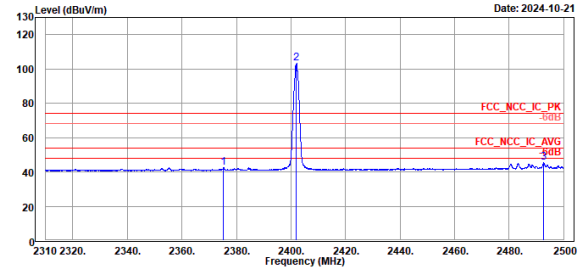
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2355.22	43.31	5.40	37.91	54.00	-10.69	386	355	Average	Horizontal	
2 *	2402.00	104.95	66.88	38.07	54.00	50.95	386	355	Average	Horizontal	
3	2492.69	43.94	5.67	38.27	54.00	-10.06	386	355	Average	Horizontal	



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2375.27	42.50	4.52	37.98	54.00	-11.50	343	271	Average	Vertical	
2 *	2402.00	103.07	65.00	38.07	54.00	49.07	343	271	Average	Vertical	
3	2492.69	45.31	7.04	38.27	54.00	-8.69	343	271	Average	Vertical	

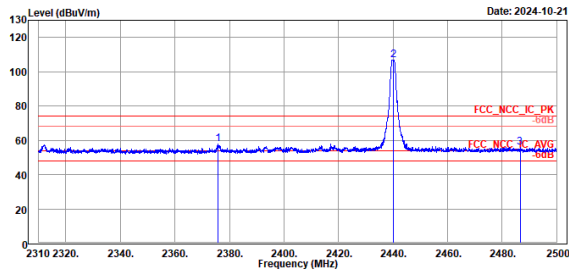
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



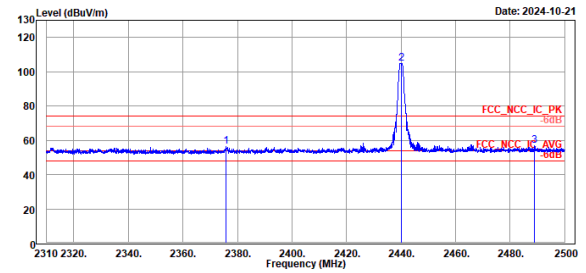
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2375.69	57.85	19.87	37.98	74.00	-16.15	338	352	Peak	Horizontal	
2	2440.00	106.80	68.54	38.26	74.00	32.80	338	352	Peak	Horizontal	
3	2486.56	56.03	17.75	38.28	74.00	-17.97	338	352	Peak	Horizontal	



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



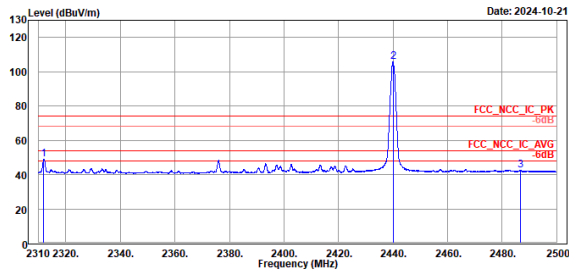
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2375.84	56.19	18.21	37.98	74.00	-17.81	330	267	Peak	Vertical	
2	2440.00	104.91	66.65	38.26	74.00	30.91	330	267	Peak	Vertical	
3	2489.03	56.64	18.36	38.28	74.00	-17.36	330	267	Peak	Vertical	

BLE_1M

Middle Channel (Horizontal) Average



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

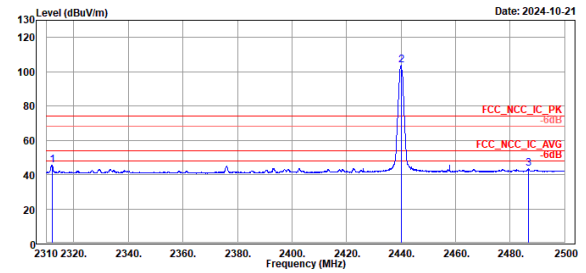


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2311.90	49.08	11.37	37.71	54.00	-4.92	338	352	Average	Horizontal	
2	2440.00	105.71	67.45	38.26	54.00	51.71	338	352	Average	Horizontal	
3	2486.75	42.53	4.25	38.28	54.00	-11.47	338	352	Average	Horizontal	

Middle Channel (Vertical) Average



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2312.00	45.69	7.98	37.71	54.00	-8.31	330	267	Average	Vertical	
2	2440.00	103.01	65.55	38.26	54.00	49.01	330	267	Average	Vertical	
3	2486.65	43.30	5.02	38.28	54.00	-10.70	330	267	Average	Vertical	

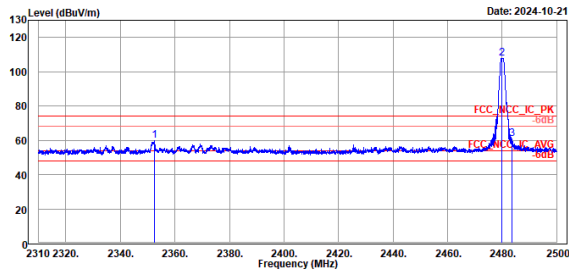
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



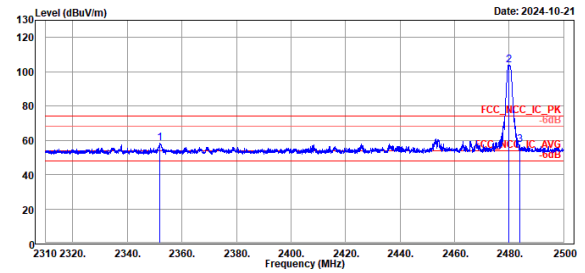
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2352.37	59.86	21.96	37.90	74.00	-14.14	358	0	Peak	Horizontal	
2	2480.00	107.77	69.48	38.29	74.00	33.77	358	0	Peak	Horizontal	
3	2483.50	60.64	22.36	38.28	74.00	-13.36	358	0	Peak	Horizontal	



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2351.00	58.08	20.18	37.90	74.00	-15.92	400	252	Peak	Vertical	
2	2480.00	103.68	65.39	38.29	74.00	29.68	400	252	Peak	Vertical	
3	2483.95	57.51	19.23	38.28	74.00	-16.49	400	252	Peak	Vertical	

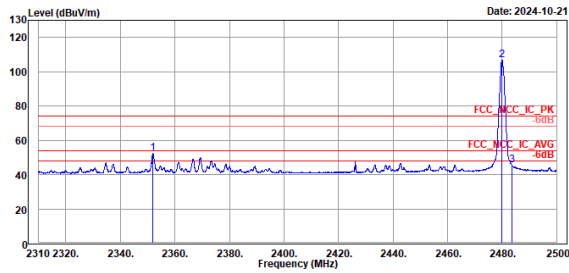
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



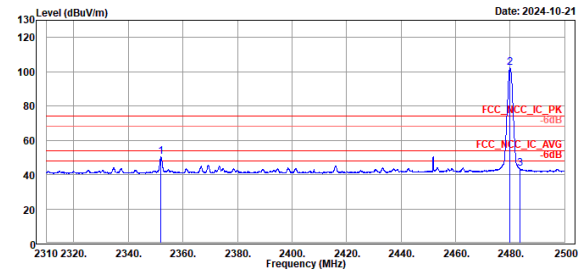
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2351.94	52.40	14.50	37.90	54.00	-1.60	358	0	Average	Horizontal	
2 *	2480.00	106.64	60.35	38.29	54.00	52.64	358	0	Average	Horizontal	
3	2483.50	45.72	7.44	38.28	54.00	-8.28	358	0	Average	Horizontal	



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2351.94	50.48	12.58	37.90	54.00	-3.52	400	252	Average	Vertical	
2 *	2480.00	102.57	64.28	38.29	54.00	48.57	400	252	Average	Vertical	
3	2483.66	43.54	5.26	38.28	54.00	-10.46	400	252	Average	Vertical	

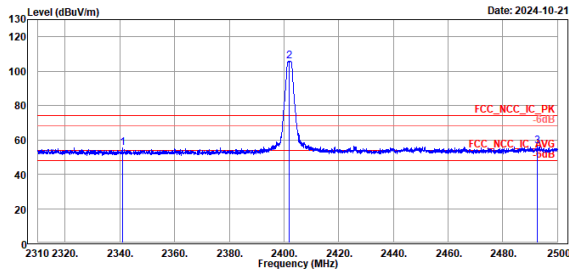
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



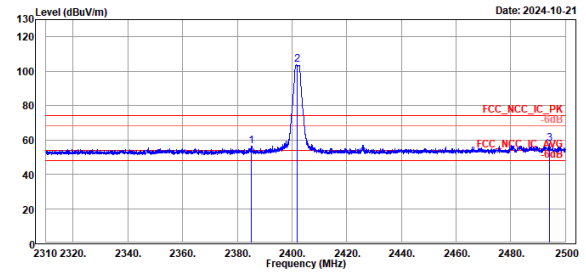
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2340.88	55.47	17.62	37.85	74.00	-18.53		374	215	Peak	Horizontal	
2 *	2402.00	105.73	67.66	38.07	74.00	31.73		374	215	Peak	Horizontal	
3	2492.64	56.34	18.07	38.27	74.00	-17.66		374	215	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	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.24	56.50	18.49	38.01	74.00	-17.50		342	266	Peak	Vertical	
2 *	2402.00	103.59	65.52	38.07	74.00	29.59		342	266	Peak	Vertical	
3	2494.21	57.86	19.59	38.27	74.00	-16.14		342	266	Peak	Vertical	

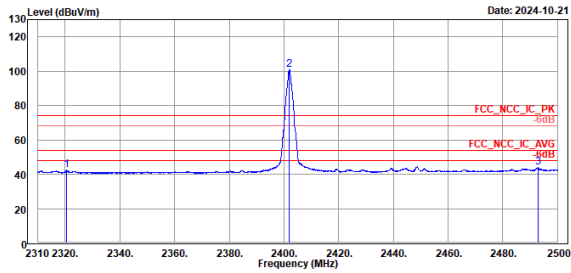
BLE_2M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



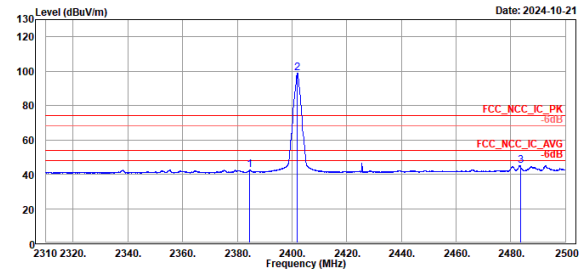
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2320.59	42.38	4.63	37.75	54.00	-11.62		374	215	Average	Horizontal	
2 *	2402.00	101.04	62.97	38.07	54.00	47.04		374	215	Average	Horizontal	
3	2492.92	43.82	5.55	38.27	54.00	-10.18		374	215	Average	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	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2384.53	42.46	4.45	38.01	54.00	-11.54		342	266	Average	Vertical	
2 *	2402.00	98.96	60.89	38.07	54.00	44.96		342	266	Average	Vertical	
3	2483.50	45.03	6.75	38.28	54.00	-8.97		342	266	Average	Vertical	

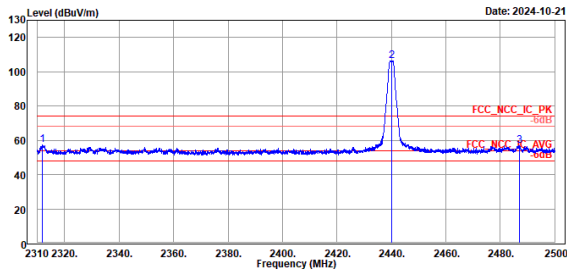
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



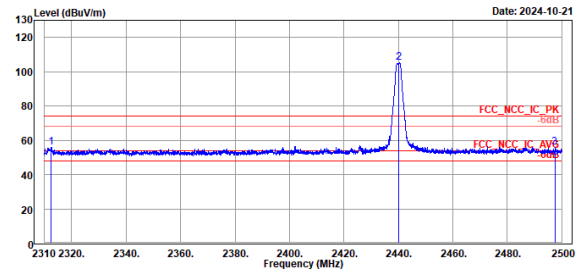
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2311.81	57.26	19.55	37.71	74.00	-16.74	358	234 Peak	Horizontal		
2	2440.00	106.28	68.02	38.26	74.00	32.28	358	234 Peak	Horizontal		
3	2487.03	57.04	18.75	38.29	74.00	-16.96	358	234 Peak	Horizontal		



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



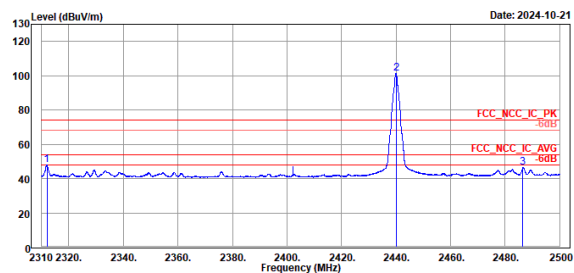
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2312.57	55.95	18.24	37.71	74.00	-18.05	364	254 Peak	Vertical		
2	2440.00	105.05	66.79	38.26	74.00	31.05	364	254 Peak	Vertical		
3	2497.44	56.00	17.72	38.28	74.00	-18.00	364	254 Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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

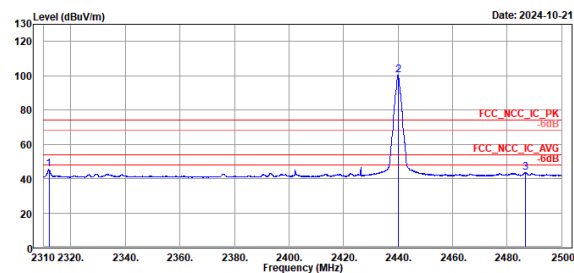


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2311.95	48.17	10.46	37.71	54.00	-5.83	358	234	Average	Horizontal	
2	2440.00	101.57	63.31	38.26	54.00	47.57	358	234	Average	Horizontal	
3	2486.51	46.53	8.25	38.28	54.00	-7.47	358	234	Average	Horizontal	

Middle Channel (Vertical) Average



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2311.95	45.24	7.53	37.71	54.00	-8.76	364	254	Average	Vertical	
2	2440.00	100.32	62.06	38.26	54.00	46.32	364	254	Average	Vertical	
3	2486.61	43.67	5.39	38.28	54.00	-10.33	364	254	Average	Vertical	

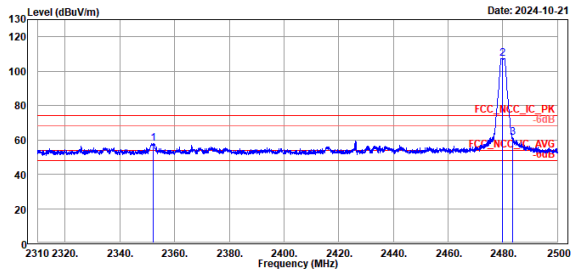
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



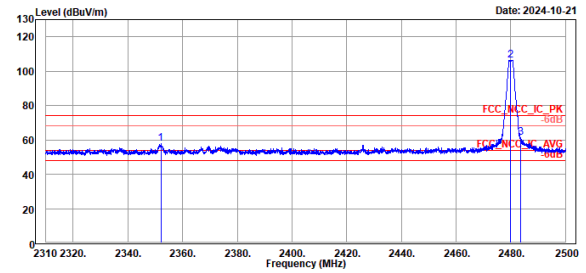
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2352.23	57.89	19.99	37.90	74.00	-16.11		356	238	Peak	Horizontal	
2 *	2480.00	107.41	69.12	38.29	74.00	33.41		356	238	Peak	Horizontal	
3	2483.50	61.40	23.12	38.28	74.00	-12.60		356	238	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	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2352.04	57.64	19.74	37.90	74.00	-16.36		352	259	Peak	Vertical	
2 *	2480.00	106.39	68.10	38.29	74.00	32.39		352	259	Peak	Vertical	
3	2483.50	61.37	23.09	38.28	74.00	-12.63		352	259	Peak	Vertical	

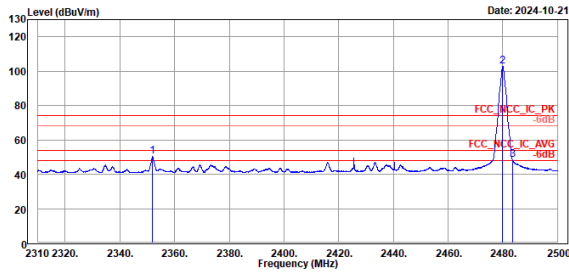
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



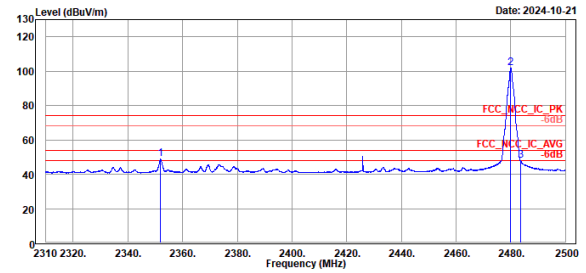
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.94	50.29	12.39	37.90	54.00	-3.71	356	238	Average	Horizontal		
2	2480.00	102.65	64.36	38.29	54.00	48.65	356	238	Average	Horizontal		
3	2483.50	48.20	9.92	38.28	54.00	-5.80	356	238	Average	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	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.94	49.00	11.10	37.90	54.00	-5.00	352	259	Average	Vertical		
2	2480.00	101.66	63.37	38.29	54.00	47.66	352	259	Average	Vertical		
3	2483.50	47.73	9.45	38.28	54.00	-6.27	352	259	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

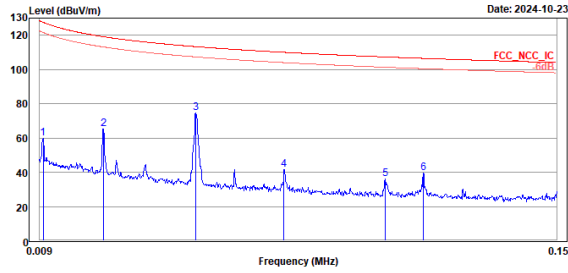
BLE_1M

Middle Channel(Open) 9kHz~150kHz

Middle Channel(Open) 150kHz~30MHz



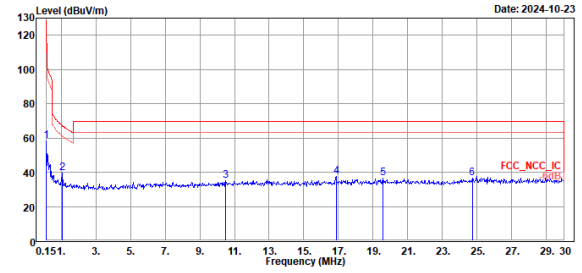
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	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	59.68	41.37	18.31	127.60	-67.92	100	195 Peak	Open	
2	0.03	65.35	45.54	19.81	119.13	-53.78	100	62 Peak	Open	
3	0.05	74.88	55.47	19.41	113.34	-38.46	100	195 Peak	Open	
4	0.08	41.35	22.74	18.61	110.01	-68.66	100	360 Peak	Open	
5	0.10	36.21	17.66	18.55	107.32	-71.11	100	203 Peak	Open	
6	0.11	39.42	20.81	18.61	106.49	-67.07	100	360 Peak	Open	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, 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	0.15	58.34	39.50	18.84	104.08	-45.74	100	191 Peak	Open	
2	1.08	39.76	20.68	19.08	66.97	-27.21	100	174 Peak	Open	
3	10.48	35.02	13.59	21.43	69.50	-34.48	100	120 Peak	Open	
4	16.87	37.40	15.12	22.28	69.50	-32.10	100	358 Peak	Open	
5	19.58	36.66	14.01	22.65	69.50	-32.84	100	134 Peak	Open	
6	24.72	36.55	13.61	22.94	69.50	-32.95	100	210 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

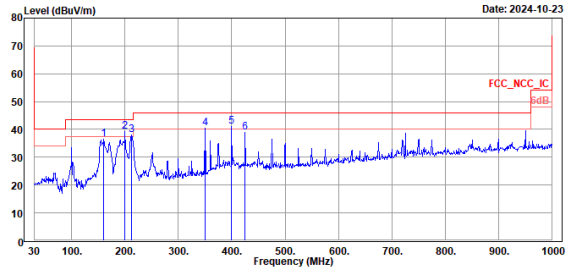
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



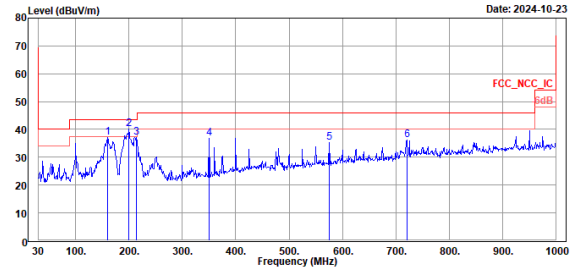
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	159.98	36.40	42.11	-5.71	43.50	-7.10	200	275	Peak	Horizontal	
2	199.75	39.16	47.40	-8.24	43.50	-4.34	100	68	Peak	Horizontal	
3	211.39	37.88	46.47	-8.59	43.50	-5.62	100	135	Peak	Horizontal	
4	350.10	40.46	44.87	-4.41	46.00	-5.54	100	0	Peak	Horizontal	
5	399.57	41.12	44.30	-3.18	46.00	-4.88	100	268	Peak	Horizontal	
6	424.79	38.79	41.52	-2.73	46.00	-7.21	100	44	Peak	Horizontal	



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	159.01	37.00	42.73	-5.73	43.50	-6.50	100	256	Peak	Vertical	
2	199.75	40.30	48.54	-8.24	43.50	-3.20	100	51	Peak	Vertical	
3	214.30	37.23	45.65	-8.42	43.50	-6.27	100	165	Peak	Vertical	
4	350.10	36.75	41.16	-4.41	46.00	-9.25	100	106	Peak	Vertical	
5	575.14	35.42	35.59	-0.17	46.00	-10.58	100	144	Peak	Vertical	
6	720.64	36.22	33.64	2.58	46.00	-9.78	100	360	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

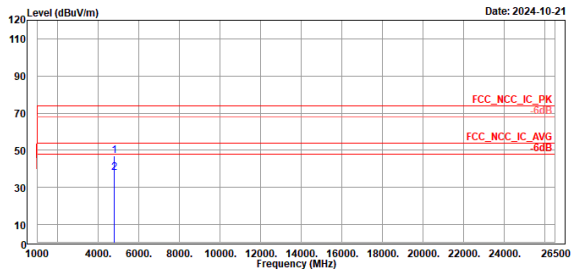
BLE_1M

Low Channel (Horizontal)

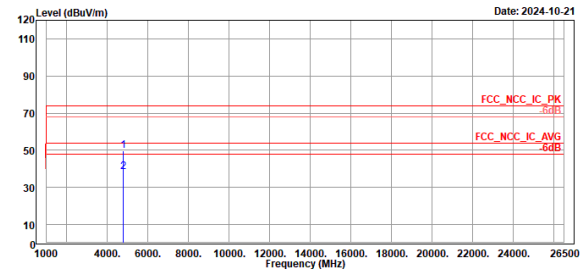
Low Channel (Vertical)



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



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



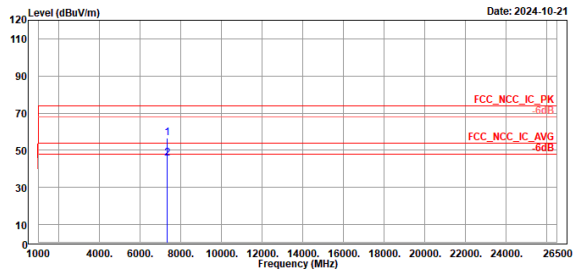
BLE_1M

Middle Channel (Horizontal)

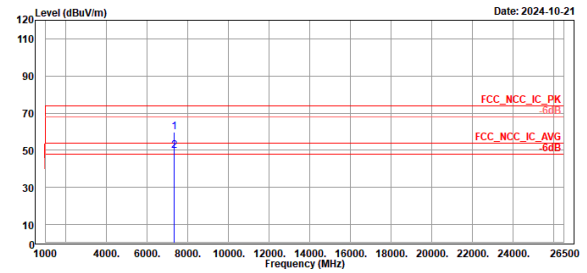
Middle Channel (Vertical)



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



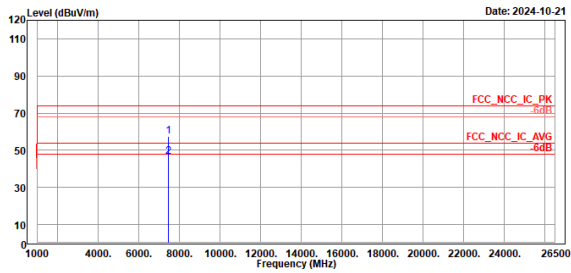
BLE_1M

High Channel (Horizontal)

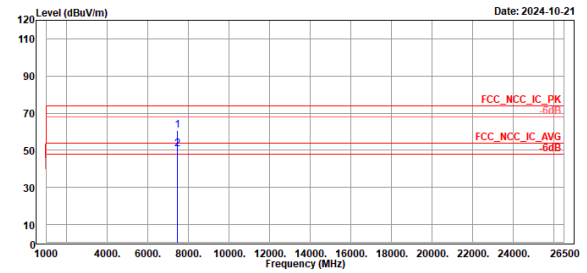
High Channel (Vertical)



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



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



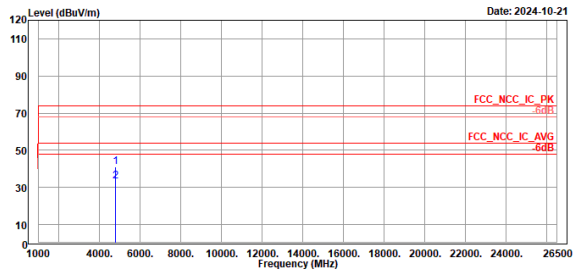
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



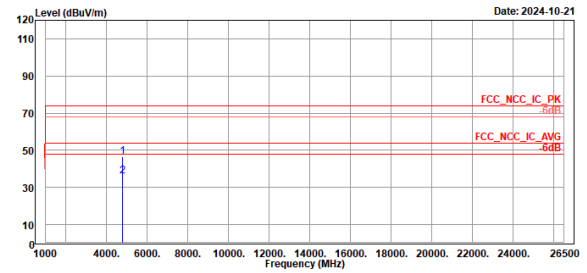
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	41.25	49.48	-8.23	74.00	-32.75	100	266	Peak	Horizontal	
2	4804.00	33.33	41.56	-8.23	54.00	-20.67	100	266	Average	Horizontal	



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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	46.68	54.91	-8.23	74.00	-27.32	100	175	Peak	Vertical	
2	4804.00	36.25	44.48	-8.23	54.00	-17.75	100	175	Average	Vertical	

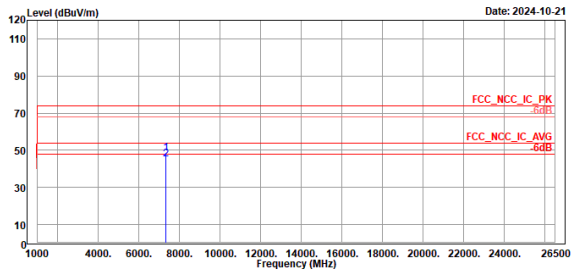
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



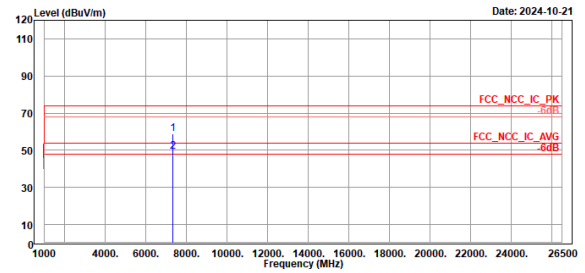
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV	dB/m	dBuV/m	dB	cm	deg			
48.16	53.84	-5.68	74.00	-25.84	100	99 Peak	Horizontal	
45.38	51.06	-5.68	54.00	-8.62	100	99 Average	Horizontal	



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



Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV	dB/m	dBuV/m	dB	cm	deg			
58.97	64.65	-5.68	74.00	-15.03	100	156 Peak	Vertical	
49.30	54.98	-5.68	54.00	-4.70	100	156 Average	Vertical	

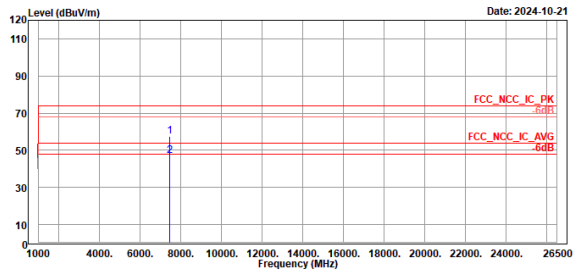
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



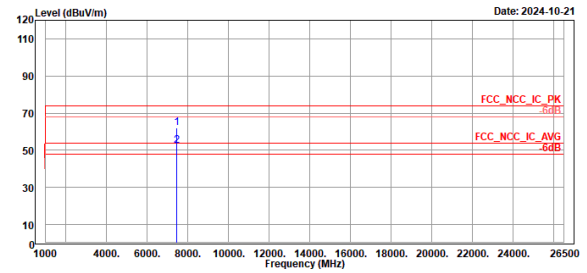
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	57.39	63.12	-5.73	74.00	-16.61	109	95	Peak	Horizontal	
2	7440.00	46.93	52.66	-5.73	54.00	-7.07	109	95	Average	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



	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	7440.00	62.13	67.86	-5.73	74.00	-11.87	104	156	Peak	Vertical	
2	7440.00	52.45	58.18	-5.73	54.00	-1.55	104	156	Average	Vertical	

Appendix C: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for External Antenna

Band Edges, 2.31GHz ~ 2.5GHz

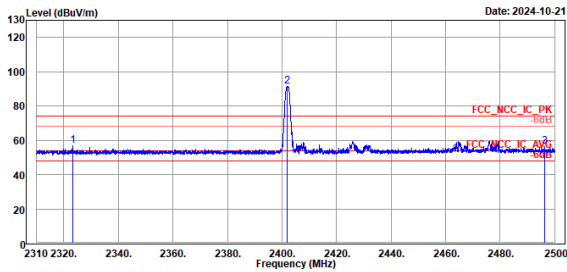
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



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



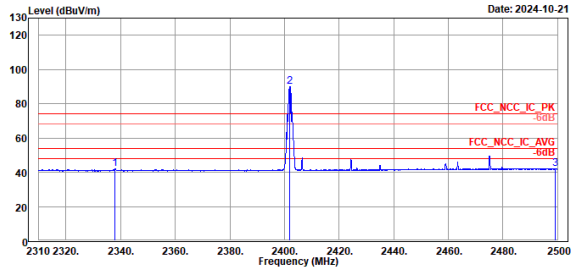
		Freq	Level	Read	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
		MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1		2323.21	56.97	19.21	37.76	74.00	-17.03	267	171	Peak	Horizontal
2	*	2402.00	91.31	53.24	38.27	74.00	17.31	267	171	Peak	Horizontal
3		2496.30	56.38	18.10	38.08	74.00	-17.62	267	171	Peak	Horizontal

BLE_1M

Low Channel (Horizontal) Average



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

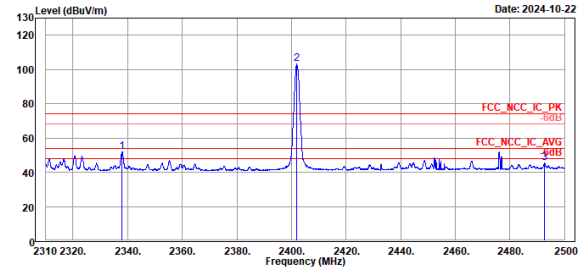


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.79	41.83	3.99	37.84	54.00	-12.17		267	171	Average	Horizontal	
2 *	2402.00	89.97	51.99	38.07	54.00	35.97		267	171	Average	Horizontal	
3	2499.15	42.21	3.94	38.27	54.00	-11.79		267	171	Average	Horizontal	

Low Channel (Vertical) Average



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



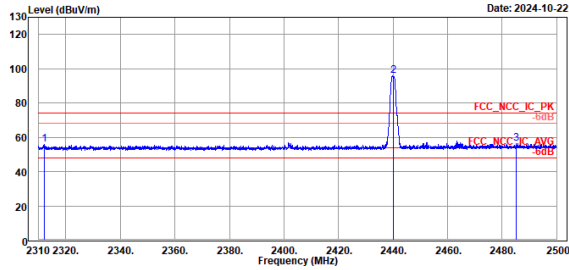
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2338.03	52.12	14.28	37.84	54.00	-1.88		356	39	Average	Vertical	
2 *	2402.00	103.23	65.16	38.07	54.00	49.23		356	39	Average	Vertical	
3	2492.73	45.31	7.04	38.27	54.00	-8.69		356	39	Average	Vertical	

BLE_1M

Middle Channel (Horizontal) Peak



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

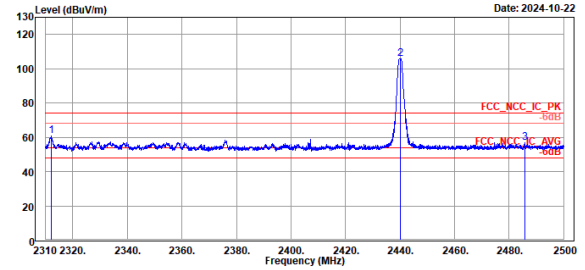


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.09	55.66	17.95	37.71	74.00	-18.34	382	152	Peak	Horizontal		
2 *	2440.00	95.65	57.39	38.26	74.00	21.65	382	152	Peak	Horizontal		
3	2485.13	56.32	18.04	38.28	74.00	-17.68	382	152	Peak	Horizontal		

Middle Channel (Vertical) Peak



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



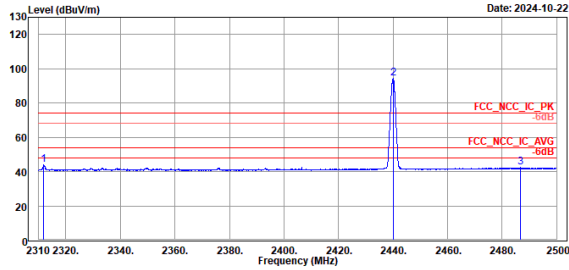
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.14	60.69	22.98	37.71	74.00	-13.31	381	71	Peak	Vertical		
2 *	2440.00	105.75	67.49	38.26	74.00	31.75	381	71	Peak	Vertical		
3	2485.66	56.80	18.52	38.28	74.00	-17.20	381	71	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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

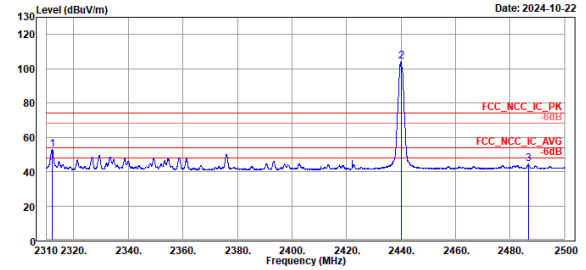


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.85	43.82	6.11	37.71	54.00	-10.18		382	152	Average	Horizontal	
2 *	2440.00	94.48	56.22	38.26	54.00	40.48		382	152	Average	Horizontal	
3	2486.65	42.29	4.01	38.28	54.00	-11.71		382	152	Average	Horizontal	

Middle Channel (Vertical) Average



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



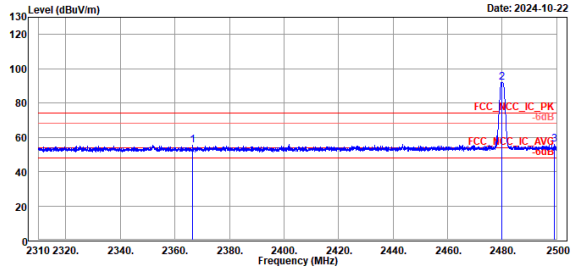
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.14	52.89	15.18	37.71	54.00	-1.11		381	71	Average	Vertical	
2 *	2440.00	104.48	66.22	38.26	54.00	50.48		381	71	Average	Vertical	
3	2486.65	44.26	5.98	38.28	54.00	-9.74		381	71	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



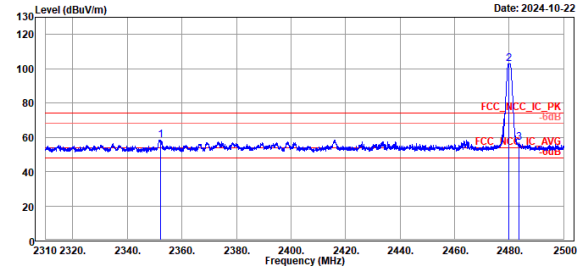
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB		cm	deg			
1	2366.48	55.42	17.47	37.95	74.00	-18.58			361	253	Peak	Horizontal	
2	2480.00	91.89	53.60	38.29	74.00	17.89			361	253	Peak	Horizontal	
3	2499.19	55.74	17.47	38.27	74.00	-18.26			361	253	Peak	Horizontal	



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



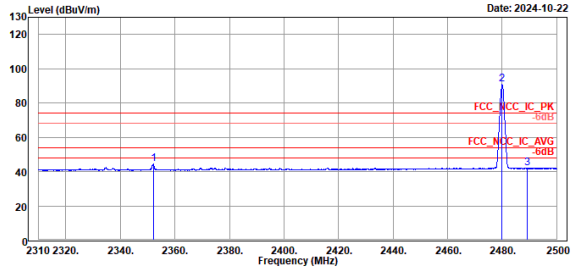
	Freq	Level	Read Level	Factor	Limit	Over Limit	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2352.23	58.36	20.46	37.90	74.00	-15.64	364	296	Peak	Vertical	
2	2480.00	102.84	64.55	38.29	74.00	28.84	364	296	Peak	Vertical	
3	2483.61	56.84	18.56	38.28	74.00	-17.16	364	296	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



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

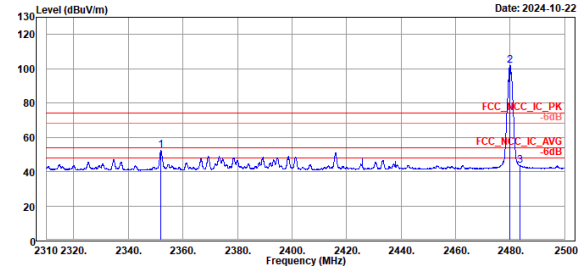


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2352.09	44.34	6.44	37.90	54.00	-9.66	361	253	Average	Horizontal		
2 *	2480.00	90.73	52.44	38.29	54.00	36.73	361	253	Average	Horizontal		
3	2489.27	42.14	3.86	38.28	54.00	-11.86	361	253	Average	Horizontal		

High Channel (Vertical) Average



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



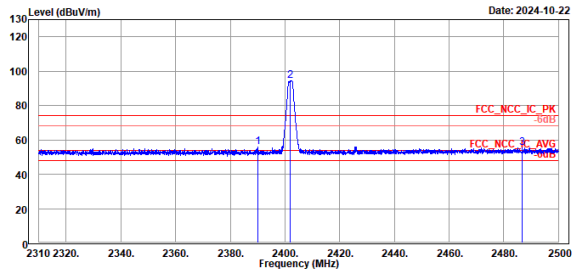
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2351.99	52.21	14.31	37.90	54.00	-1.79	364	296	Average	Vertical		
2 *	2480.00	101.62	63.33	38.29	54.00	47.62	364	296	Average	Vertical		
3	2483.50	43.48	5.20	38.28	54.00	-10.52	364	296	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



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



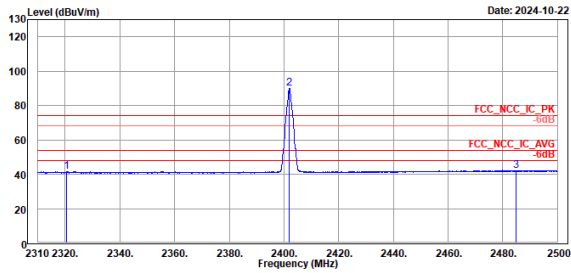
	Freq	Level	Read		Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.99	55.67	17.65	38.02	74.00	-18.33	365	173	Peak	Horizontal	
2	2402.00	94.37	56.30	38.07	74.00	20.37	365	173	Peak	Horizontal	
3	2486.80	55.54	17.26	38.28	74.00	-18.46	365	173	Peak	Horizontal	

BLE_2M

Low Channel (Horizontal) Average



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

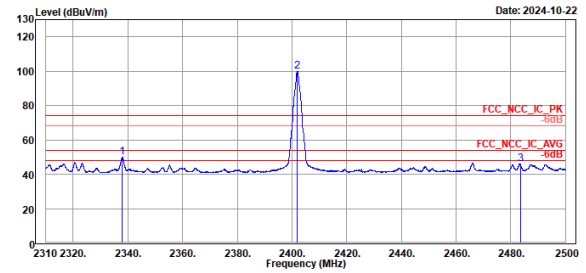


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2320.64	41.76	4.01	37.75	54.00	-12.24	365	173	Average	Horizontal		
2 *	2402.00	89.87	51.80	38.07	54.00	35.87	365	173	Average	Horizontal		
3	2484.85	42.20	3.92	38.28	54.00	-11.80	365	173	Average	Horizontal		

Low Channel (Vertical) Average



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2337.88	50.05	12.21	37.84	54.00	-3.95	367	39	Average	Vertical		
2 *	2402.00	100.00	61.93	38.07	54.00	46.00	367	39	Average	Vertical		
3	2483.50	45.78	7.50	38.28	54.00	-8.22	367	39	Average	Vertical		

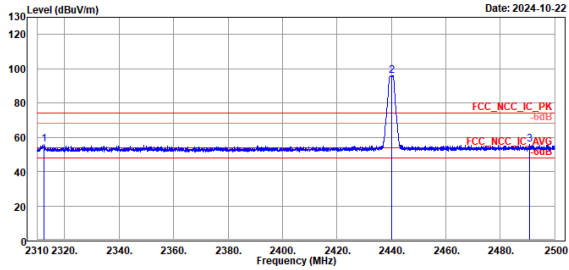
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



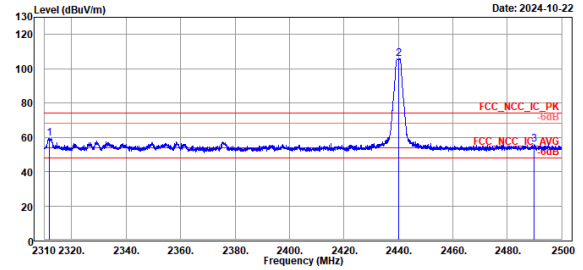
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.47	55.66	17.95	37.71	74.00	-18.34	383	151	Peak	Horizontal		
2 *	2440.00	95.84	57.58	38.26	74.00	21.84	383	151	Peak	Horizontal		
3	2490.83	55.68	17.40	38.28	74.00	-18.32	383	151	Peak	Horizontal		



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



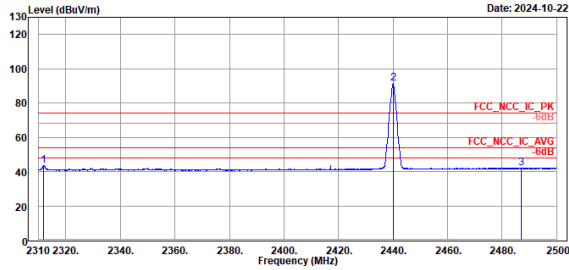
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.95	59.41	21.70	37.71	74.00	-14.59	382	70	Peak	Vertical		
2 *	2440.00	105.74	67.48	38.26	74.00	31.74	382	70	Peak	Vertical		
3	2489.93	55.92	17.64	38.28	74.00	-18.08	382	70	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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

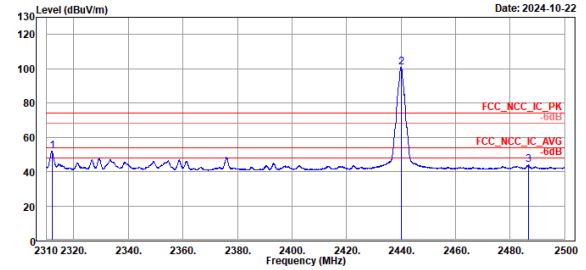


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.90	43.59	5.88	37.71	54.00	-10.41	383	151	Average	Horizontal	
2 *	2440.00	91.40	53.14	38.26	54.00	37.40	383	151	Average	Horizontal	
3	2487.03	42.15	3.86	38.29	54.00	-11.85	383	151	Average	Horizontal	

Middle Channel (Vertical) Average



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



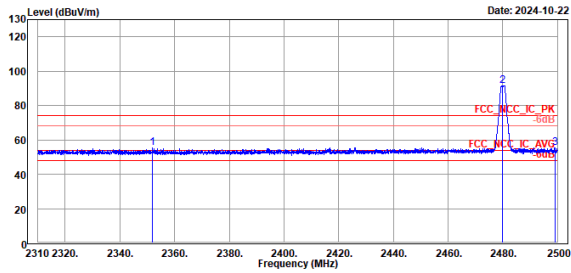
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.00	52.08	14.37	37.71	54.00	-1.92	382	70	Average	Vertical	
2 *	2440.00	101.05	62.79	38.26	54.00	47.05	382	70	Average	Vertical	
3	2486.80	43.82	5.54	38.28	54.00	-10.18	382	70	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



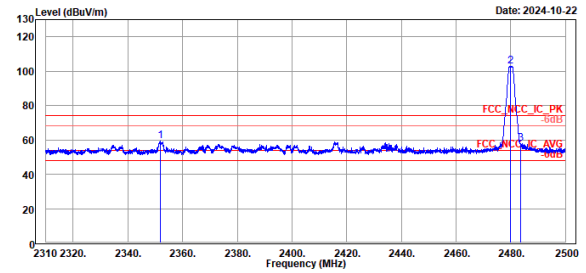
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.88	55.17	17.27	37.98	74.00	-18.83	390	155	Peak	Horizontal		
2 *	2480.00	91.51	53.22	38.29	74.00	17.51	390	155	Peak	Horizontal		
3	2499.00	55.51	17.24	38.27	74.00	-18.49	390	155	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



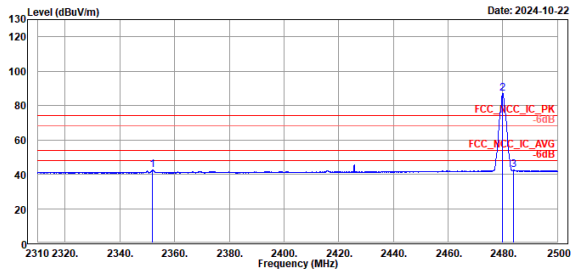
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.85	59.32	21.42	37.90	74.00	-14.68	370	51	Peak	Vertical		
2 *	2480.00	102.81	64.52	38.29	74.00	28.81	370	51	Peak	Vertical		
3	2483.61	58.08	19.80	38.28	74.00	-15.92	370	51	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



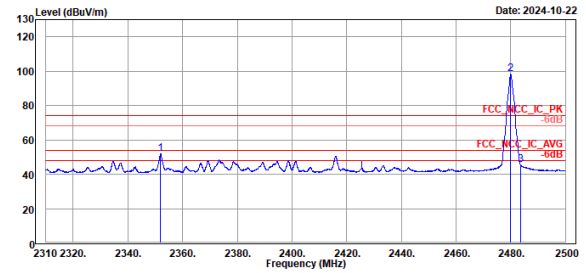
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.99	42.52	4.62	37.90	54.00	-11.48		390	155	Average	Horizontal	
2 *	2480.00	87.20	48.91	38.29	54.00	33.20		390	155	Average	Horizontal	
3	2483.99	42.35	4.07	38.28	54.00	-11.65		390	155	Average	Horizontal	



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.99	51.79	13.89	37.90	54.00	-2.21		370	51	Average	Vertical	
2 *	2480.00	98.12	59.83	38.29	54.00	44.12		370	51	Average	Vertical	
3	2483.99	45.72	7.44	38.28	54.00	-8.28		370	51	Average	Vertical	

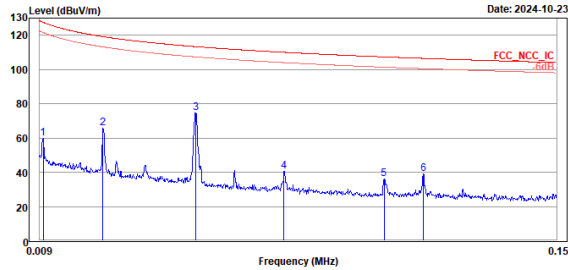
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_1M

Middle Channel(Open) 9kHz~150kHz



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

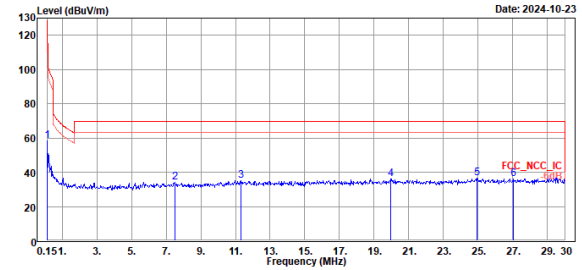


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.01	59.70	41.39	18.31	127.60	-67.90	100	38	Peak	Open		
2	0.03	65.53	45.72	19.81	119.18	-53.65	100	360	Peak	Open		
3	0.05	74.68	55.27	19.41	113.34	-38.66	100	183	Peak	Open		
4	0.08	40.76	22.15	18.61	110.01	-69.25	100	93	Peak	Open		
5	0.10	35.85	17.30	18.55	107.35	-71.50	100	179	Peak	Open		
6	0.11	39.12	20.51	18.61	106.49	-67.37	100	360	Peak	Open		

Middle Channel(Open) 150kHz~30MHz



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.15	58.44	39.60	18.84	104.08	-45.64	100	199	Peak	Open		
2	7.49	34.01	13.09	20.92	69.50	-35.49	100	129	Peak	Open		
3	11.31	34.92	13.35	21.57	69.50	-34.58	100	328	Peak	Open		
4	19.94	35.92	13.26	22.66	69.50	-33.58	100	264	Peak	Open		
5	24.93	36.46	13.33	23.13	69.50	-33.04	100	126	Peak	Open		
6	27.04	36.28	13.26	23.02	69.50	-33.22	100	299	Peak	Open		

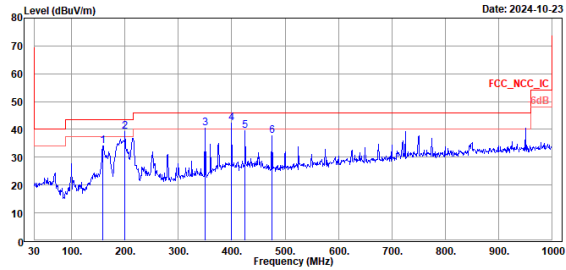
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_1M

Middle Channel (Horizontal)



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

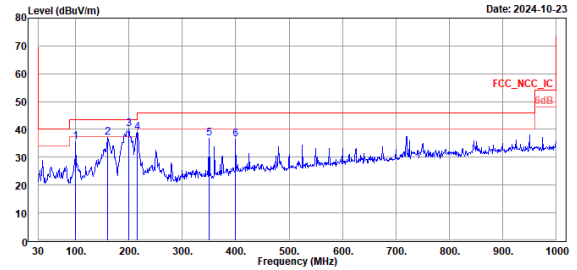


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	158.04	33.99	39.72	-5.73	43.50	-9.51	100	135	Peak	Horizontal		
2	199.75	39.25	47.49	-8.24	43.50	-4.25	100	88	Peak	Horizontal		
3	350.10	40.57	44.98	-4.41	46.00	-5.43	100	360	Peak	Horizontal		
4	399.57	42.31	45.49	-3.18	46.00	-3.69	100	276	Peak	Horizontal		
5	424.79	39.63	42.36	-2.73	46.00	-6.37	100	176	Peak	Horizontal		
6	475.23	37.67	39.48	-1.81	46.00	-8.33	100	189	Peak	Horizontal		

Middle Channel (Vertical)



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	99.84	35.54	46.62	-11.08	43.50	-7.96	100	92	Peak	Vertical		
2	159.98	37.10	42.81	-5.71	43.50	-6.40	100	257	Peak	Vertical		
3	199.75	40.05	48.29	-8.24	43.50	-3.45	100	60	Peak	Vertical		
4	215.27	39.07	47.45	-8.38	43.50	-4.43	100	174	Peak	Vertical		
5	350.10	36.90	41.31	-4.41	46.00	-9.10	100	114	Peak	Vertical		
6	399.57	36.57	39.75	-3.18	46.00	-9.43	100	312	Peak	Vertical		

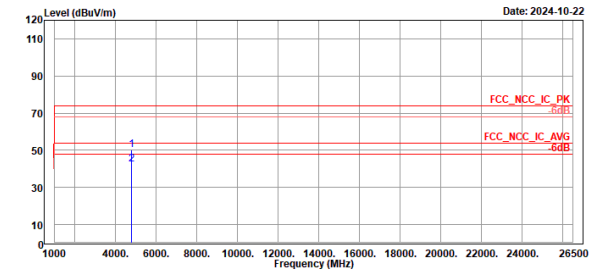
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

Low Channel (Horizontal)



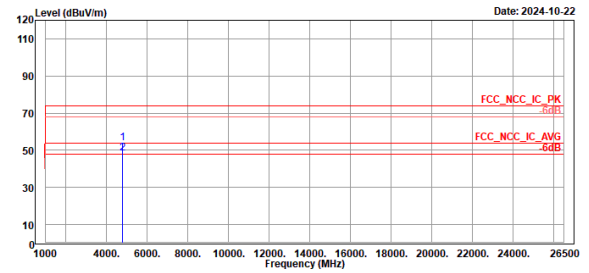
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	50.13	58.36	-8.23	74.00	-23.87	282	100	Peak	Horizontal		
2	4804.00	42.26	50.49	-8.23	54.00	-11.74	282	100	Average	Horizontal		



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



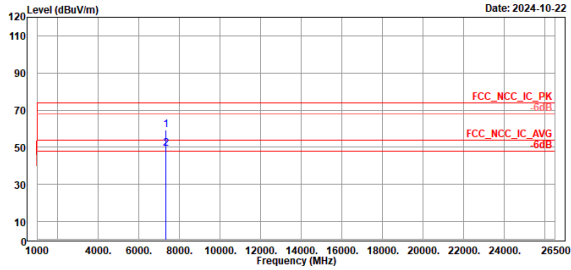
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	54.00	62.23	-8.23	74.00	-20.00	100	71	Peak	Vertical		
2	4804.00	48.26	56.49	-8.23	54.00	-5.74	100	71	Average	Vertical		

BLE_1M

Middle Channel (Horizontal)



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

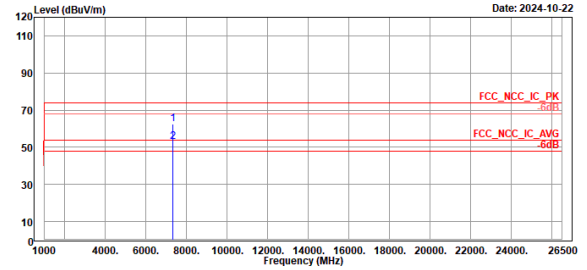


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	59.47	65.15	-5.68	74.00	-14.53	106	169	Peak	Horizontal		
2	7320.00	49.11	54.79	-5.68	54.00	-4.89	106	169	Average	Horizontal		

Middle Channel (Vertical)



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	62.55	68.23	-5.68	74.00	-11.45	237	147	Peak	Vertical		
2	7320.00	52.89	58.57	-5.68	54.00	-1.11	237	147	Average	Vertical		

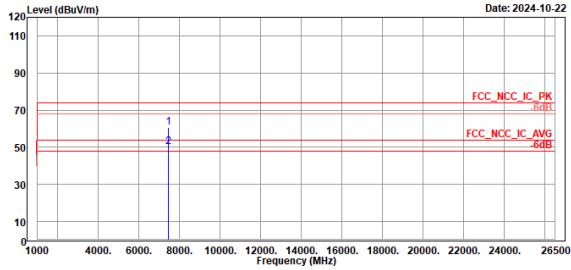
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



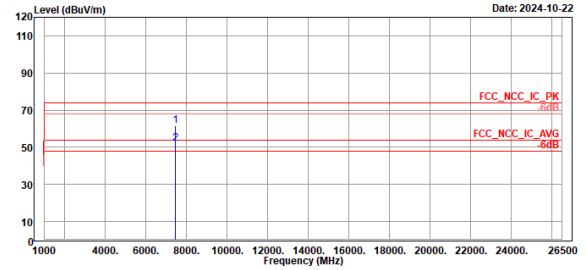
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	60.50	66.23	-5.73	74.00	-13.50	169	165	Peak	Horizontal		
2	7440.00	50.20	55.93	-5.73	54.00	-3.80	169	165	Average	Horizontal		



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	61.74	67.47	-5.73	74.00	-12.26	361	87	Peak	Vertical		
2	7440.00	51.98	57.71	-5.73	54.00	-2.02	361	87	Average	Vertical		

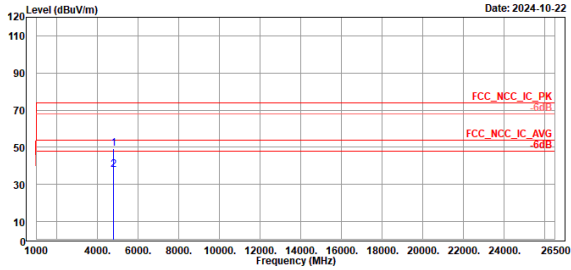
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



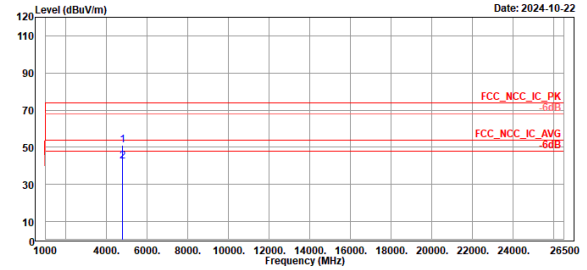
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	49.40	57.63	-8.23	74.00	-24.60	283	99	Peak	Horizontal		
2	4804.00	37.94	46.17	-8.23	54.00	-16.06	283	99	Average	Horizontal		



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



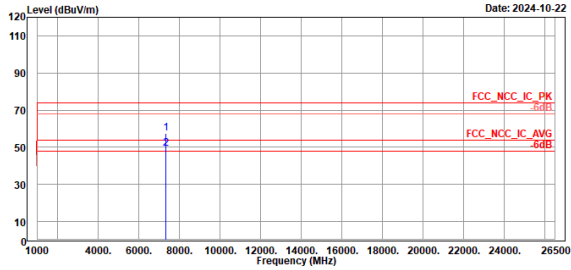
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	51.24	59.47	-8.23	74.00	-22.76	281	40	Peak	Vertical		
2	4804.00	42.44	50.67	-8.23	54.00	-11.56	281	40	Average	Vertical		

BLE_2M

Middle Channel (Horizontal)



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

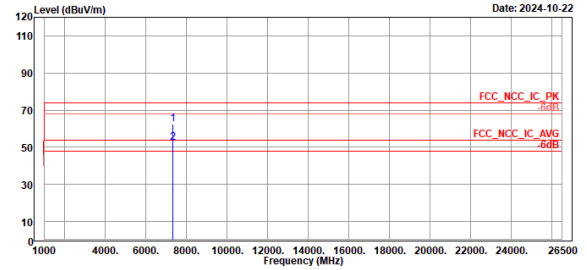


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	57.36	63.04	-5.68	74.00	-16.64	334	20	Peak	Horizontal		
2	7320.00	49.25	54.93	-5.68	54.00	-4.75	334	20	Average	Horizontal		

Middle Channel (Vertical)



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7320.00	62.36	68.04	-5.68	74.00	-11.64	249	149	Peak	Vertical		
2	7320.00	52.46	58.14	-5.68	54.00	-1.54	249	149	Average	Vertical		

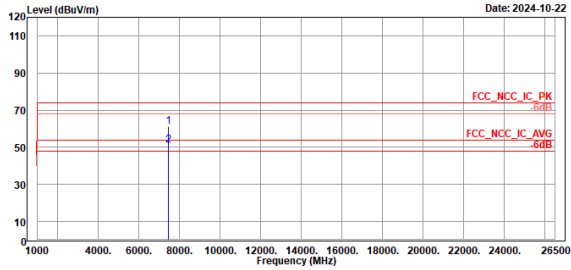
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



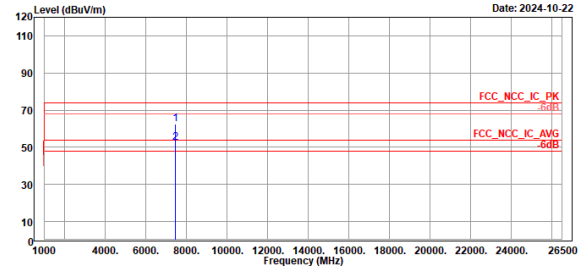
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	61.27	67.00	-5.73	74.00	-12.73	147	165	Peak	Horizontal		
2	7440.00	51.05	56.78	-5.73	54.00	-2.95	147	165	Average	Horizontal		



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



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	7440.00	62.43	68.16	-5.73	74.00	-11.57	213	323	Peak	Vertical		
2	7440.00	52.61	58.34	-5.73	54.00	-1.39	213	323	Average	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

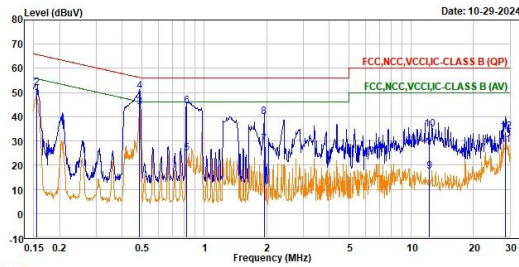
Worst Band

(Line)

(Neutral)



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

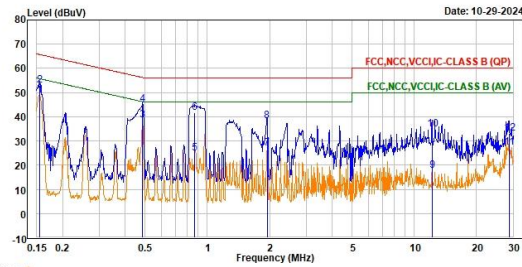


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	47.72	38.08	9.64	55.71	-7.99	Average	line1	
2	0.16	52.07	42.43	9.64	55.71	-13.64	QP	line1	
3	0.49	43.93	34.30	9.63	46.23	-2.30	Average	line1	
4	0.49	50.60	40.97	9.63	56.23	-5.63	QP	line1	
5	0.82	24.90	15.26	9.64	46.00	-21.10	Average	line1	
6	0.82	44.39	34.75	9.64	56.00	-11.61	QP	line1	
7	1.94	28.66	19.00	9.66	46.00	-17.34	Average	line1	
8	1.94	40.10	30.44	9.66	56.00	-15.90	QP	line1	
9	12.17	17.35	7.62	9.73	50.00	-32.65	Average	line1	
10	12.17	34.78	25.05	9.73	60.00	-25.22	QP	line1	
11	28.54	28.47	18.86	9.61	50.00	-21.53	Average	line1	
12	28.54	33.64	24.03	9.61	60.00	-26.36	QP	line1	



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



Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	48.85	39.21	9.64	55.71	-6.86	Average	neutral	
2	0.16	52.87	43.23	9.64	55.71	-12.84	QP	neutral	
3	0.49	38.48	28.85	9.63	46.23	-7.75	Average	neutral	
4	0.49	45.13	35.50	9.63	56.23	-11.10	QP	neutral	
5	0.82	25.05	15.41	9.64	46.00	-20.95	Average	neutral	
6	0.82	41.76	32.12	9.64	56.00	-14.24	QP	neutral	
7	1.94	27.89	17.43	9.66	46.00	-18.91	Average	neutral	
8	1.94	38.16	28.50	9.66	56.00	-17.84	QP	neutral	
9	12.17	17.78	8.01	9.77	50.00	-32.22	Average	neutral	
10	12.17	34.71	24.94	9.77	60.00	-25.29	QP	neutral	
11	28.68	27.20	17.42	9.78	50.00	-22.80	Average	neutral	
12	28.68	32.96	23.18	9.78	60.00	-27.04	QP	neutral	