Prüfbericht-Nr.: *Test report no.:*	CN21UIMT(P15C-WiFi) 001	**Auftrags-Nr.:** *Order no.*:	238517977	Seite 1 von 30 *Page 1 of 30*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021-07-21	
Auftraggeber: *Client:*	Eve Systems LLC 100 Pine St., Suite 1250, San Francisco CA 94111 USA			
Prüfgegenstand: *Test item:*	Eve Outdoor Cam			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	20ECA4101			
Auftrags-Inhalt: *Order content*:	FCC Part 15C Test report (WiFi 2.4GHz)			
Prüfgrundlage: *Test specification:*	FCC 47CFR Part 15: Subpart C Section 15.247			

Wareneingangsdatum: *Date of sample receipt:*	2021-10-07
Prüfmuster-Nr.: *Test sample no:*	A003150447-001 A003140747-001
Prüfzeitraum: *Testing period:*	2021-11-08 - 2021-12-03
Ort der Prüfung: *Place of testing:*	EMC/RF Taipei Testing Site
Prüflaboratorium: *Testing laboratory:*	Taipei Testing Laboratories
Prüfergebnis*: *Test result*:*	Pass

zusammengestellt von: *compiled by:*		**genehmigt von:** authorized by:	
Datum: *Date:* 2021-11-24		**Ausstellungsdatum:** *Issue date:* 2021-11-24	
Stellung / *Position:*	Ryan Chen Senior Project Manager	**Stellung** / *Position:*	Brenda Chen Senior Project Manager

Sonstiges / *Other:*

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* 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*

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

Report No.	Description	Date Issued
CN21UIMT(P15C-WiFi) 001	Original Release	2021-11-24

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
Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission
Appendix SP - Photographs of Test Setup
Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart 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.: 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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

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

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 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 Eve Outdoor Cam. It contains a WLAN 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	Eve Outdoor Cam
Type Identification	20ECA4101
FCC ID	SNE-ODC-001

Technical Specification of EUT

Item	EUT information
Operating Frequency	2412 MHz ~ 2462 MHz
Channel Spacing	5 MHz
Channel Number	802.11b/g/n HT20: 11
Data Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to MCS7
Operation Voltage	5Vdc
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM)
Maximum Output Power (mW)	802.11b: 114.55 802.11g: 432.51 802.11n HT20: 426.58
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

802.11b		802.11g		802.11n HT20	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
1	19	1	10	1	10
6	20	2	19	2	18
9	20	6	21	6	21
10	18	9	17	8	15
11	15	10	11	9	11
-	-	11	10	10	10
-	-	-	-	11	9

4.2 Carrier Frequency and Channel

802.11b, 802.11g and 802.11n HT20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

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	Putty.exe

The samples were used as follows:
A003150447-001 for radiated test
A003140747-001 for conducted test
Full test was applied on all test modes, but only worst case was shown.

Modulation Mode	Tx Function
802.11b	1TX (SISO)
802.11g	1TX (SISO)
802.11n HT20	1TX (SISO)

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	
-	√	√	√	√	-

Note:
1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on X-plane.
2. "-" means no effect.

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	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11b	1 to 11	1, 6, 9, 10, 11	1.0
-	802.11g	1 to 11	1, 2, 6, 9, 10, 11	6.0
-	802.11n HT20	1 to 11	1, 2, 6, 8, 9, 10, 11	MCS0

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	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11b	1 to 11	1, 6, 9, 10, 11	1.0
-	802.11g	1 to 11	1, 2, 6, 9, 10, 11	6.0
-	802.11n HT20	1 to 11	1, 2, 6, 8, 9, 10, 11	MCS0

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	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11n HT20	1 to 11	6	MCS0

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	Mode	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11n HT20	1 to 11	6	MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22.1 °C	52 %	Stanislas Charles
Radiated Spurious Emissions above 1 GHz	23.1-25.1 °C	55-60 %	Ray Huang
Radiated Spurious Emissions below 1 GHz	23.1-25.1 °C	55-60 %	Ray Huang
Mains Conducted Emission	23.6-24.1 °C	49-52 %	Ray Huang

4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

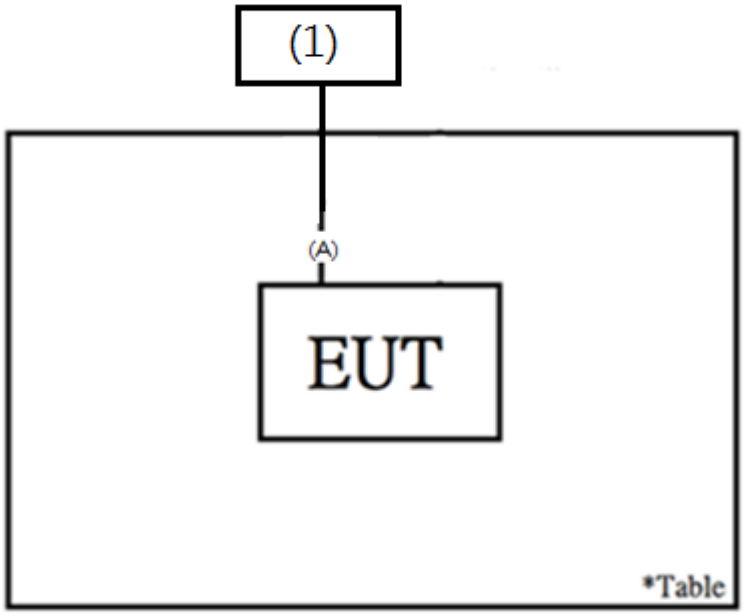
None.

Support Unit

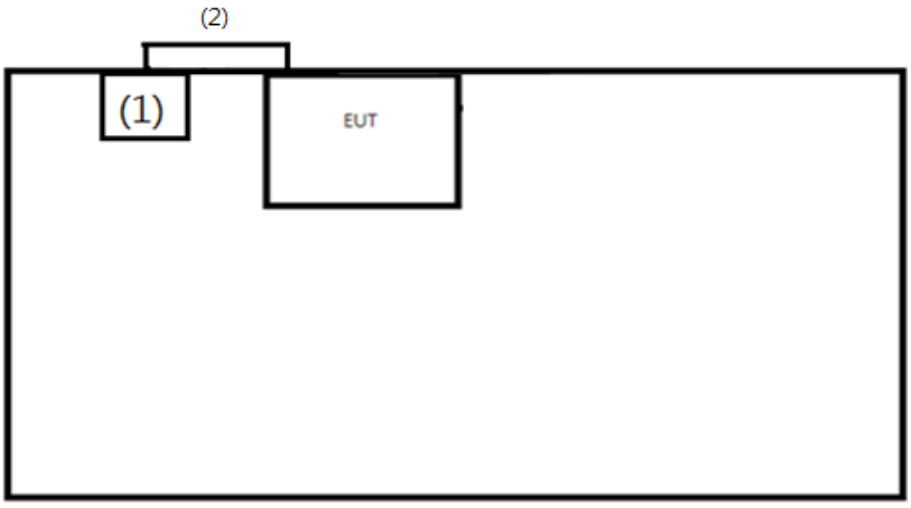
No.	Description	Brand	Model	S/N	Remark
Radiated Test					
A	USB Cable	-	-	-	200 cm non-shielded cable w/o core
1	adapter	ULLPOWER	ICP08C-05D-1000B	-	-
Mains Conducted Test					
1	USB Cable	TUV	TUV-01	-	200 cm non-shielded cable w/o core
2	adapter	ULLPOWER	ICP08C-05D-1000B	-	non-shielded cable w/o core

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



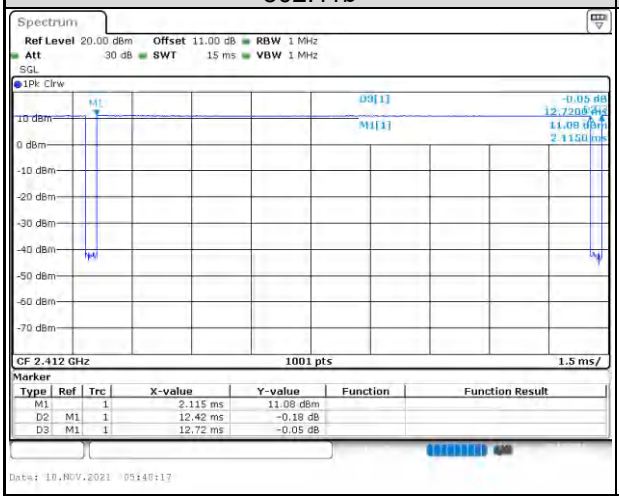
<Mains Conducted Emission mode>



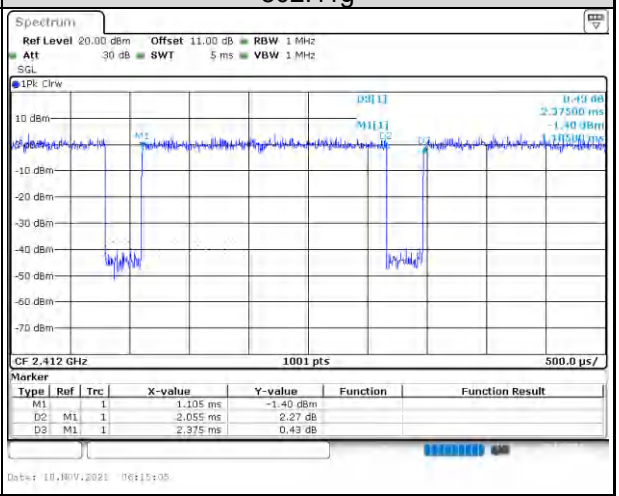
4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	12.72	12.42	97.64	0.10
802.11g	2.375	2.055	86.53	0.63
802.11n HT20	2.225	1.91	85.84	0.66

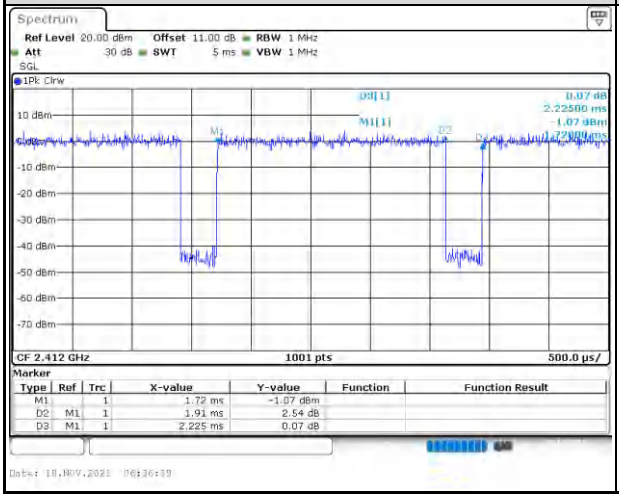
802.11b



802.11g



802.11n HT20



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.2 dBi. The antenna is a PCB 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 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	2021/3/24	2022/3/23	2021/11/10	2021/11/10
Power Sensor	Anritsu	MA2411B	1725269	2021/3/24	2022/3/23	2021/11/10	2021/11/10

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

<802.11b>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	19.48	88.72	30
6	2437	20.59	114.55	30
9	2452	20.46	111.17	30
10	2457	18.46	70.15	30
11	2462	15.74	37.50	30

<802.11g>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	20.14	103.28	30
2	2417	25.32	340.41	30
6	2437	26.36	432.51	30
9	2452	25.18	329.61	30
10	2457	21.80	151.36	30
11	2462	20.46	111.17	30

<802.11n HT20>

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)
		(dBm)	(mW)	
1	2412	20.03	100.69	30
2	2417	25.12	325.09	30
6	2437	26.30	426.58	30
8	2447	24.57	286.42	30
9	2452	20.68	116.95	30
10	2457	20.08	101.86	30
11	2462	17.47	55.85	30

Average Power

<802.11b>

Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	17.03	50.47
6	2437	17.95	62.37
9	2452	18.05	63.83
10	2457	16.11	40.83
11	2462	13.44	22.08

<802.11g>

Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	8.50	7.08
2	2417	16.87	48.64
6	2437	19.39	86.90
9	2452	15.56	35.97
10	2457	10.11	10.26
11	2462	8.45	7.00

<802.11n HT20>

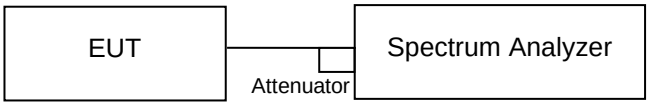
Channel	Channel Frequency (MHz)	Average Power	
		(dBm)	(mW)
1	2412	8.18	6.58
2	2417	15.64	36.64
6	2437	19.27	84.53
8	2447	13.86	24.32
9	2452	9.48	8.87
10	2457	8.18	6.58
11	2462	6.24	4.21

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	FSV40	101512	2021/1/29	2022/1/28	2021/11/10	2021/11/10

Test Procedure

a. Set resolution bandwidth (RBW) = 100 kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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.
f. 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.

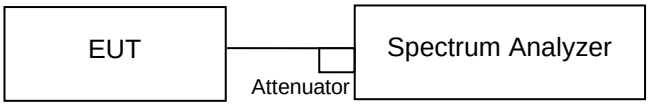
5.1.4 Power Spectral Density

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	FSV40	101512	2021/1/29	2022/1/28	2021/11/10	2021/11/10

Test Procedure

a. Set analyzer center frequency to DTS channel center frequency.
b. Set the span to 1.5 times the DTS bandwidth.
c. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d. Set the VBW ≥ 3 × RBW.
e. Detector = peak.
f. Sweep time = auto couple.
g. Trace mode = max hold.
h. Allow trace to fully stabilize.
i. Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

Please refer to Appendix A.

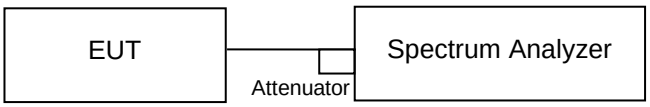
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100 kHz Bandwidth

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	FSV40	101512	2021/1/29	2022/1/28	2021/11/10	2021/12/03

Test Procedure

Measurement procedure REF
1. Set the RBW = 100 kHz.
2. Set the VBW ≥ 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 OOBE
1. Set RBW = 100 kHz.
2. Set VBW ≥ 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

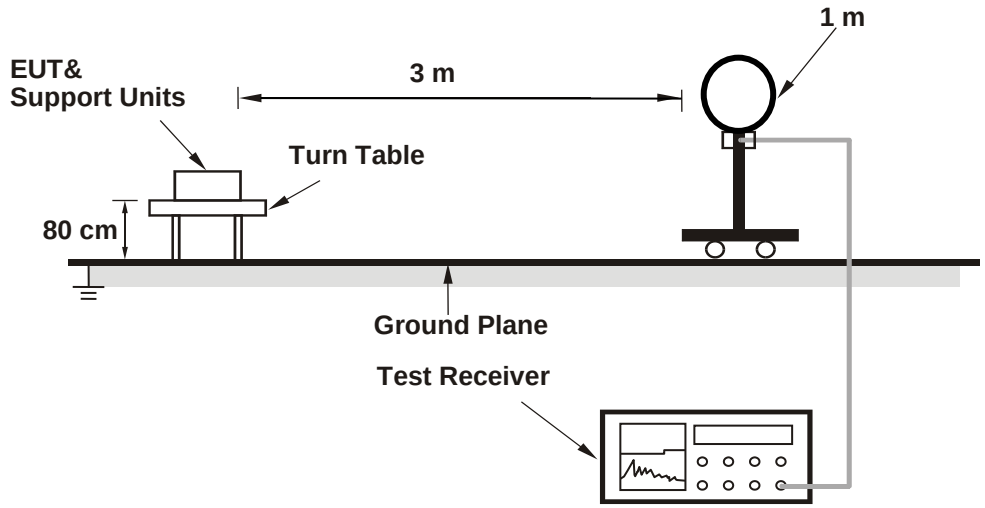
Limit

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).

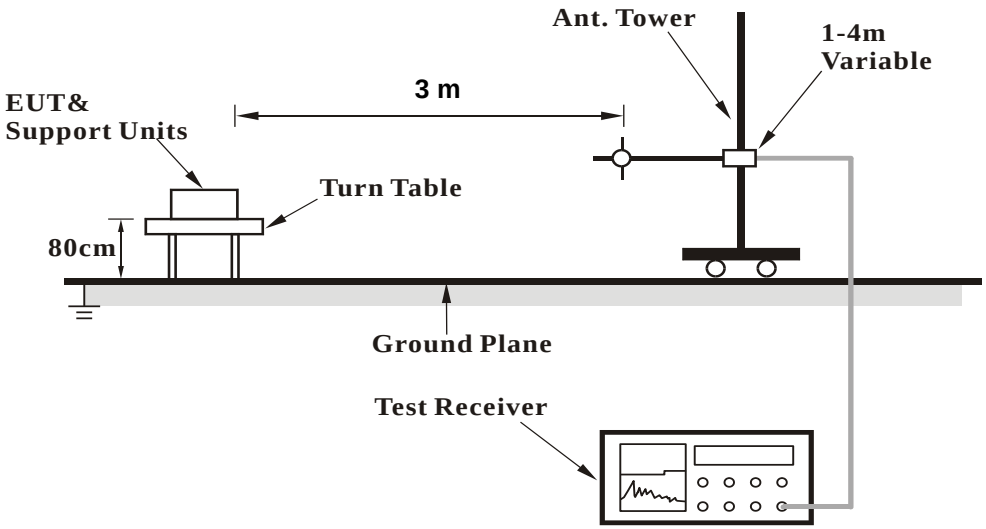
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

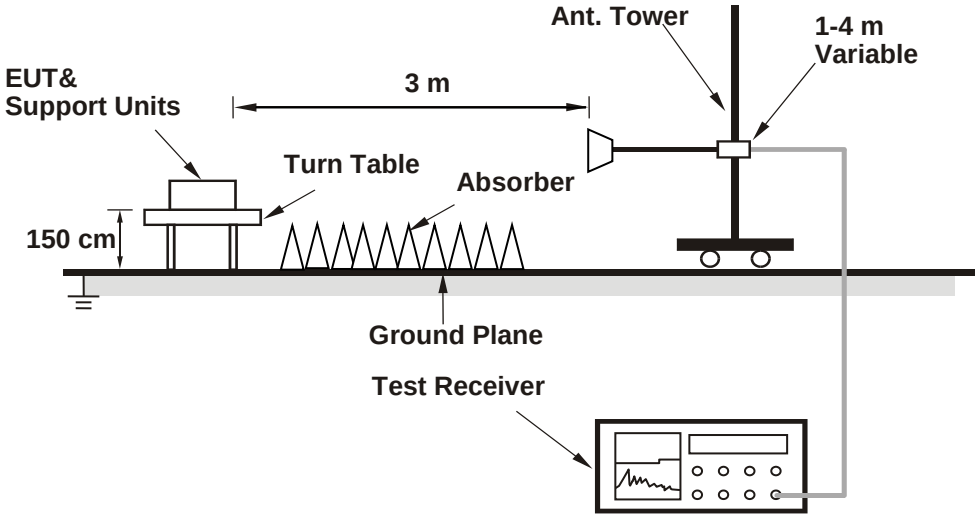
<Radiated Emissions below 30 MHz>



<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).

Test Instruments

Test Date: 2021/11/08 – 2021/12/11

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101509	2021/3/24	2022/3/23
Receiver	R&S	ESR7	102108	2021/3/17	2022/3/16
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2021/1/25	2022/1/24
Horn Antenna	ETS-Lindgren	3117	00218930	2020/12/1	2021/11/30
Horn Antenna	ETS-Lindgren	3117	00218929	2021/11/25	2022/11/24
LF-AMP	Agilent	8447D	2727A05146	2021/2/1	2022/1/31
HF-AMP + AC source	EMCI	EMC051845SE	980635	2021/2/1	2022/1/31
HF-AMP + AC source	EMCI	EMC184045SE	980656	2021/2/9	2022/2/8
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800897/2EA	2021/3/11	2022/3/10
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2021/3/11	2022/3/10
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2021/3/11	2022/3/10
Loop Antenna	SCHWARZBECK	FMZB1519B	00215	2021/9/17	2022/9/16

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 ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 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.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

5.2 Mains Emission

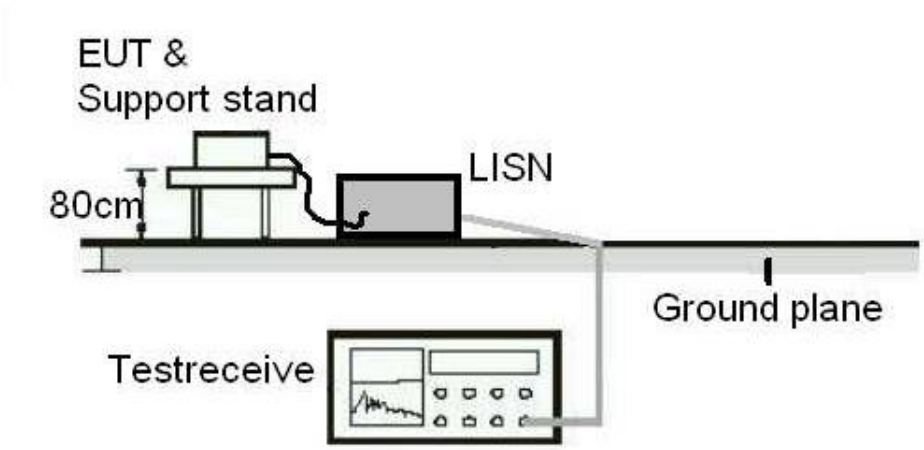
5.2.1 Mains Conducted Emission

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

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
RF Cable	N/A	N/A	EMC-003	2021/3/16	2022/3/15
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2021/9/23	2022/9/22

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 B.

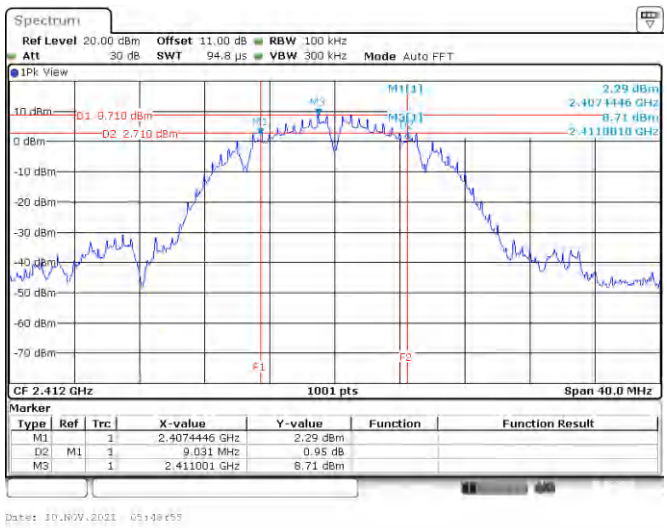
Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

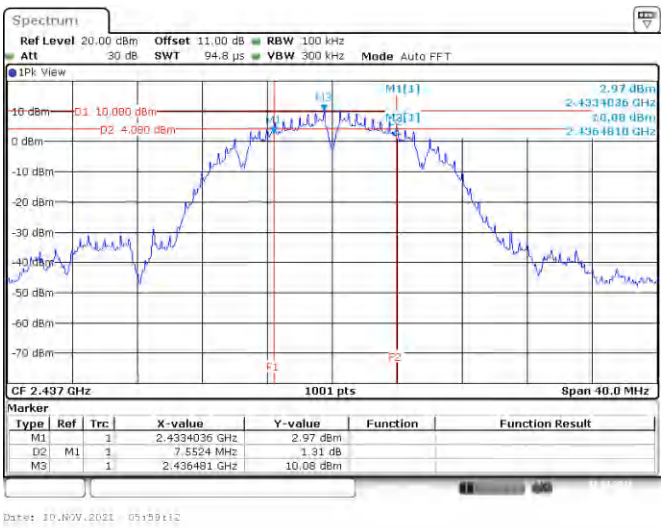
802.11b

Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
1	2412	9.03	> 0.5	Pass
6	2437	7.55	> 0.5	Pass
11	2462	9.03	> 0.5	Pass

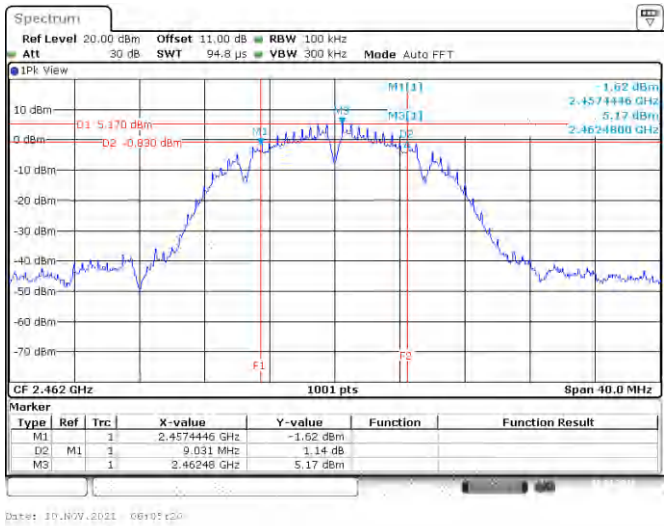
Channel 1



Channel 6



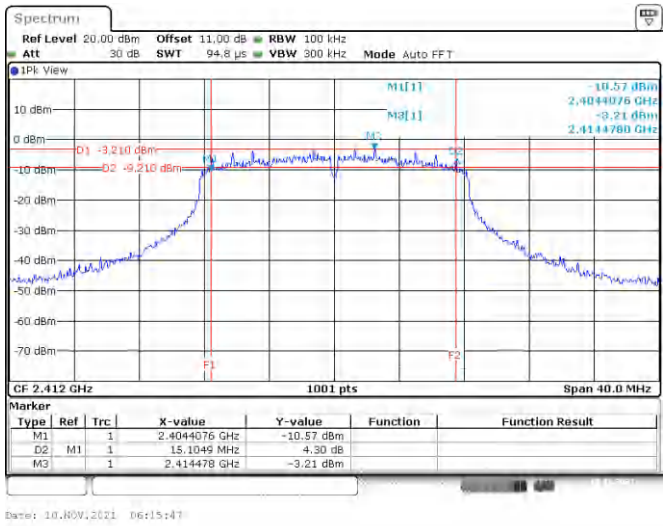
Channel 11



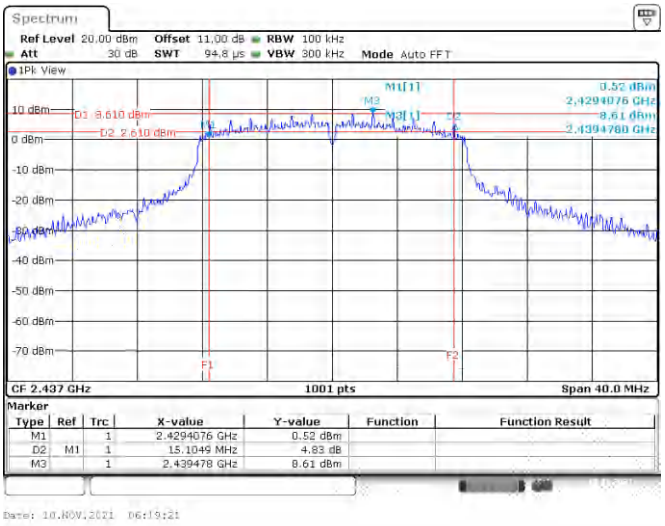
802.11g

Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
1	2412	15.10	> 0.5	Pass
6	2437	15.10	> 0.5	Pass
11	2462	15.10	> 0.5	Pass

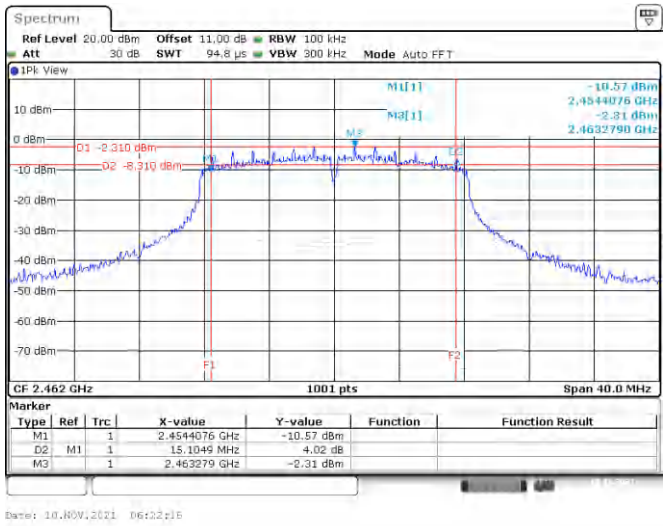
Channel 1



Channel 6



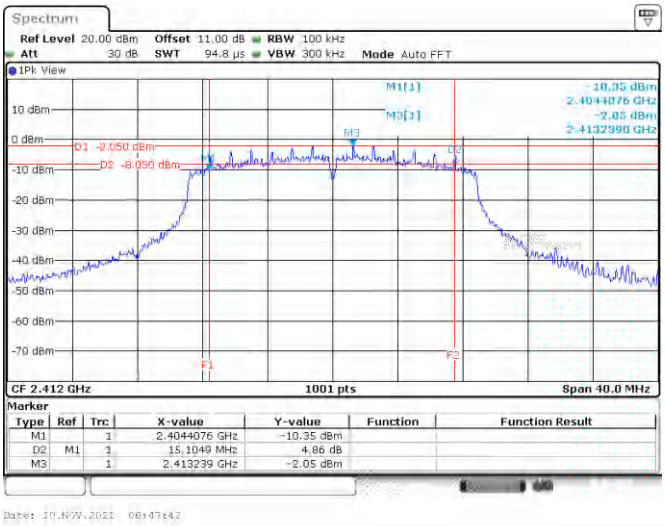
Channel 11



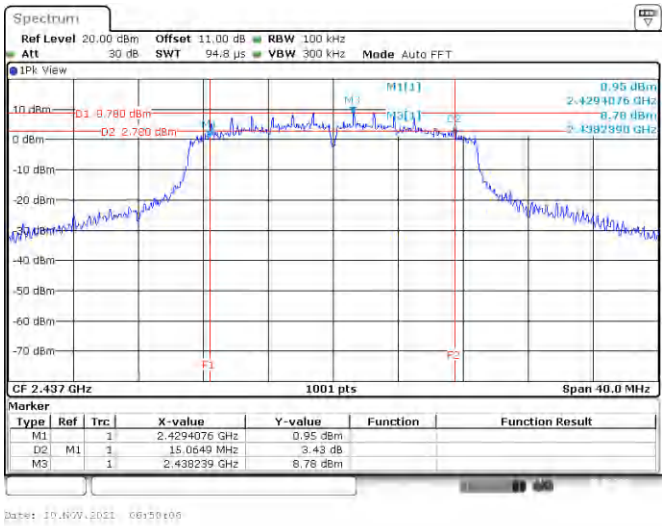
802.11n HT20

Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
1	2412	15.10	> 0.5	Pass
6	2437	15.06	> 0.5	Pass
11	2462	15.42	> 0.5	Pass

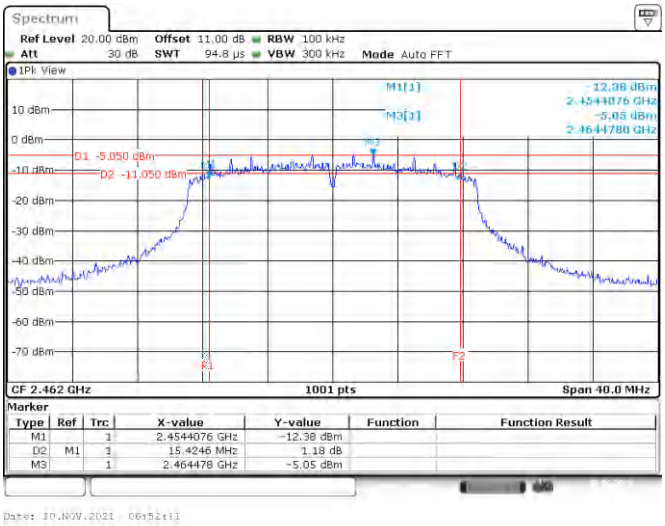
Channel 1



Channel 6



Channel 11

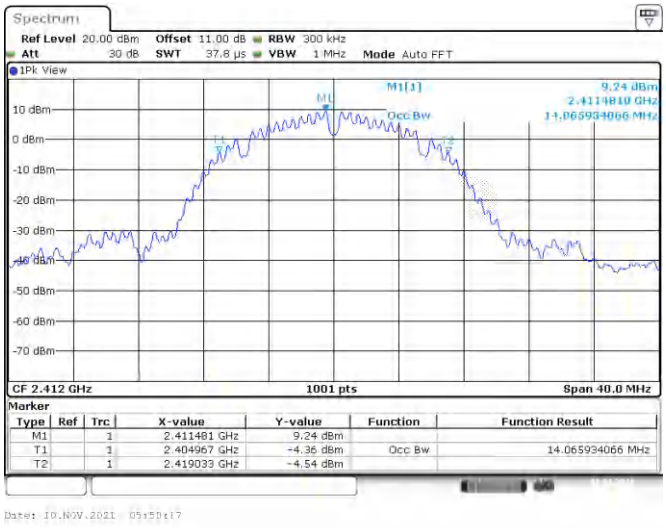


Test Result of 99% Occupied Bandwidth

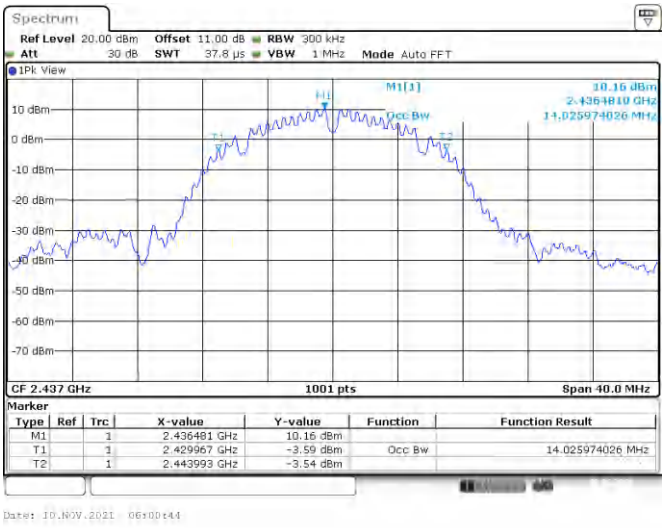
802.11b

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
1	2412	14.07
6	2437	14.03
11	2462	14.07

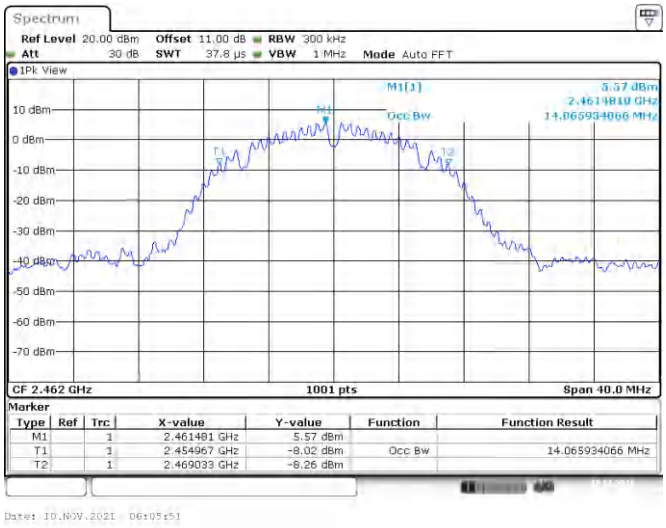
Channel 1



Channel 6



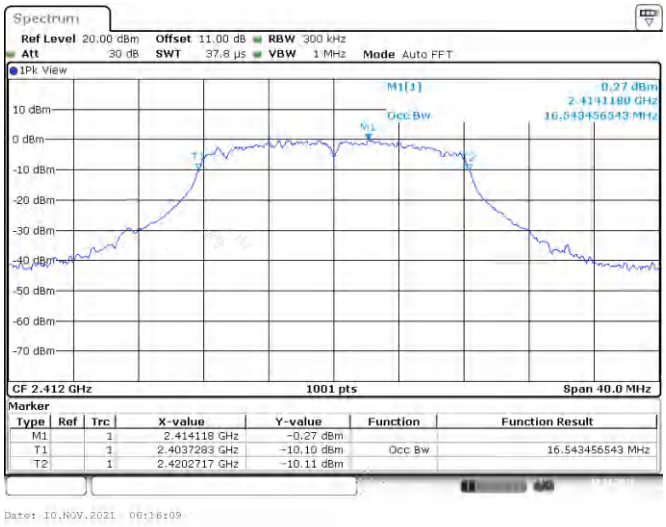
Channel 11



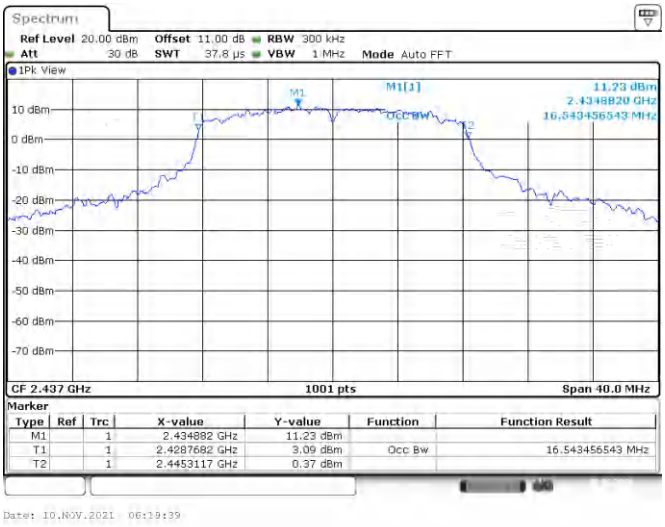
802.11g

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
1	2412	16.54
6	2437	16.54
11	2462	16.42

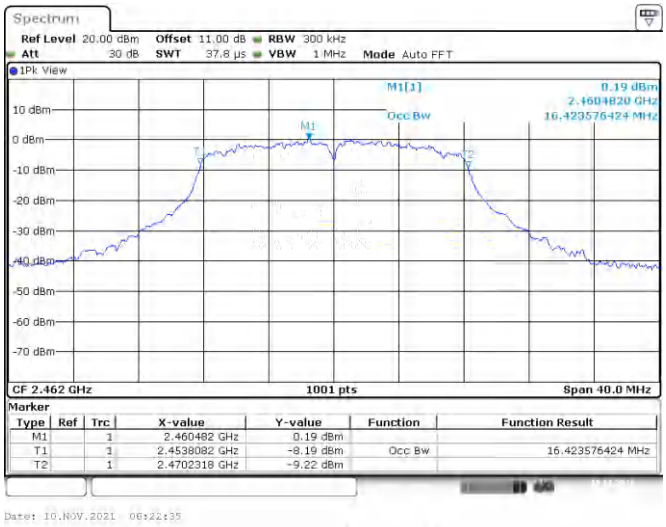
Channel 1



Channel 6



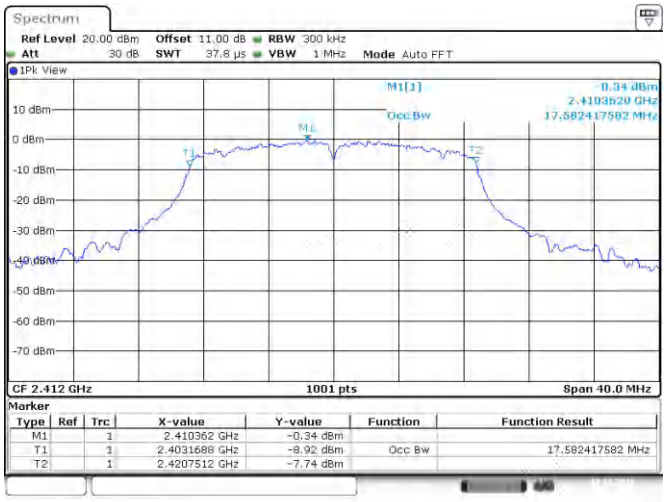
Channel 11



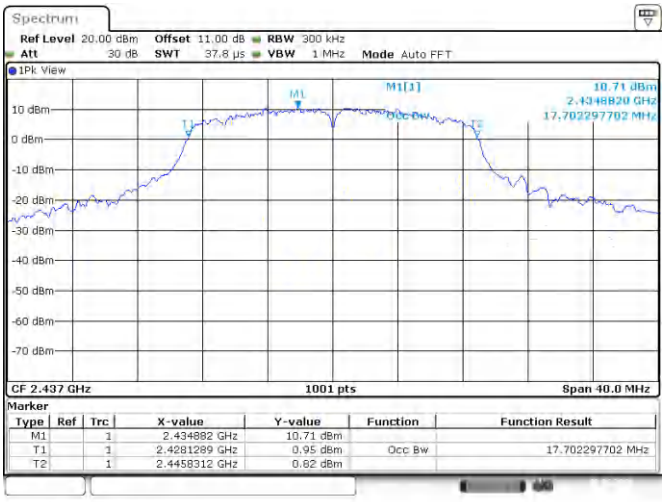
802.11n HT20

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
1	2412	17.58
6	2437	17.70
11	2462	17.58

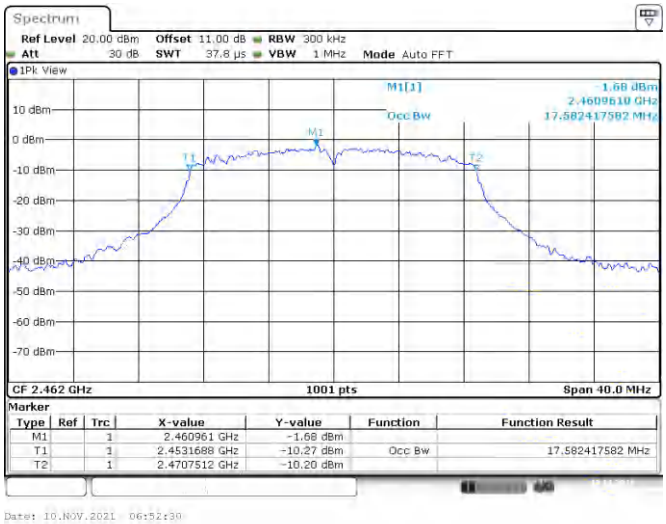
Channel 1



Channel 6



Channel 11

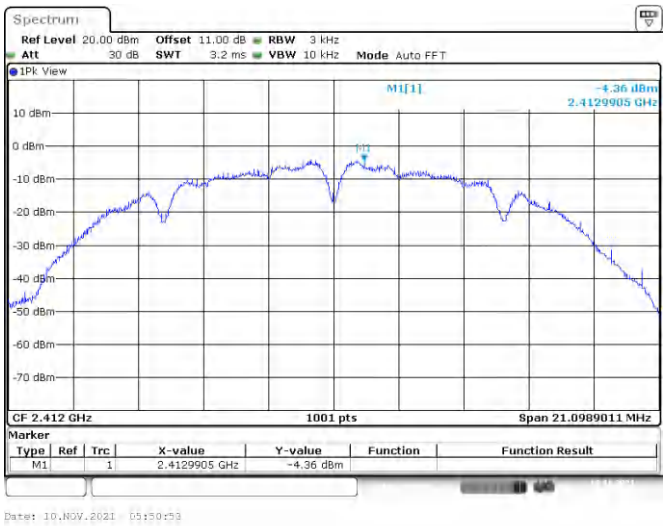


Test Result of Power Spectral Density

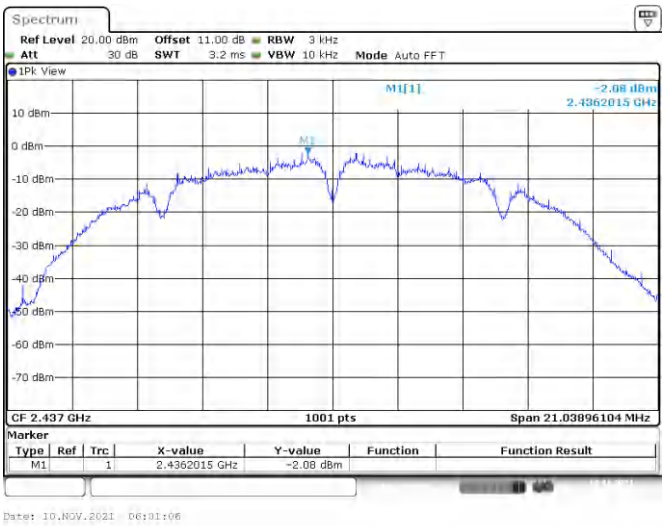
802.11b

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)
1	2412	-4.36	8
6	2437	-2.08	8
11	2462	-6.75	8

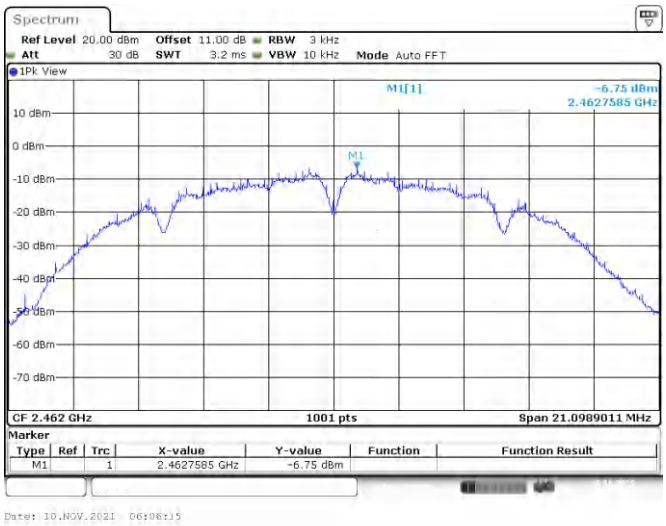
Channel 1



Channel 6



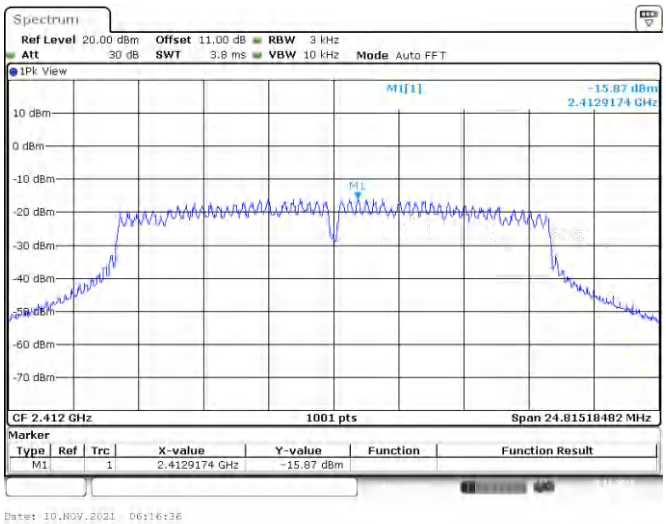
Channel 11



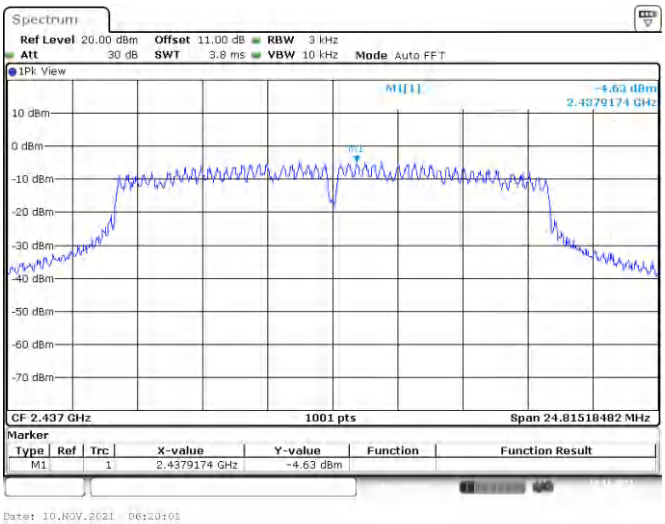
802.11g

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)
1	2412	-15.87	8
6	2437	-4.63	8
11	2462	-15.36	8

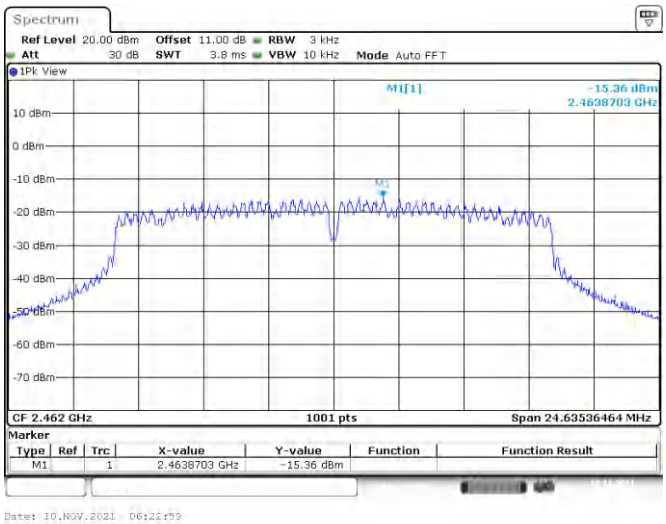
Channel 1



Channel 6



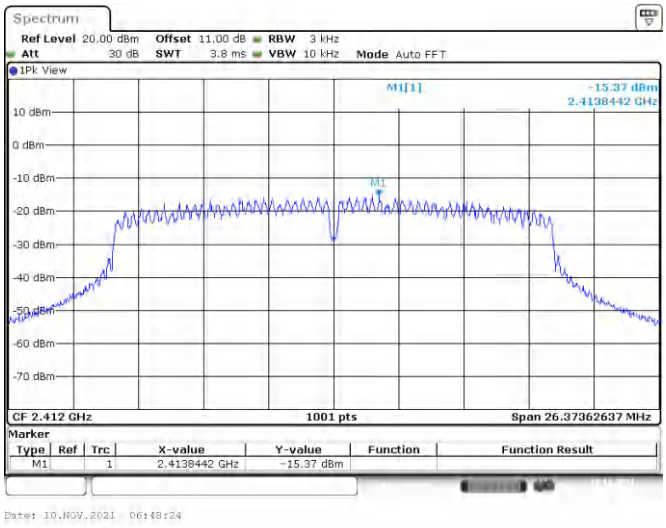
Channel 11



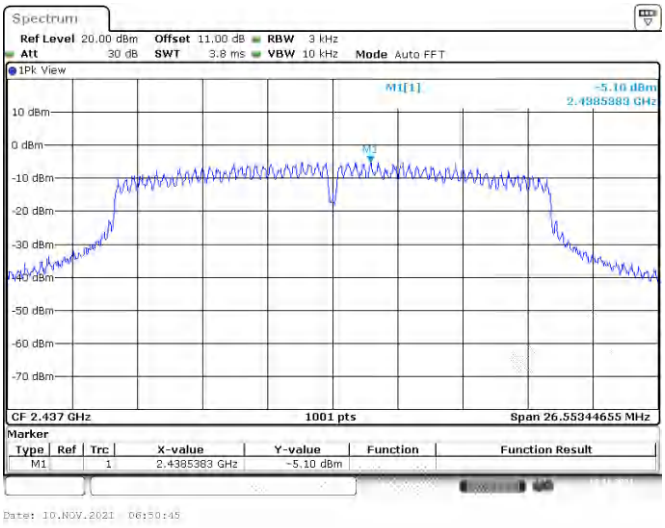
802.11n HT20

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)
1	2412	-15.37	8
6	2437	-5.10	8
11	2462	-17.35	8

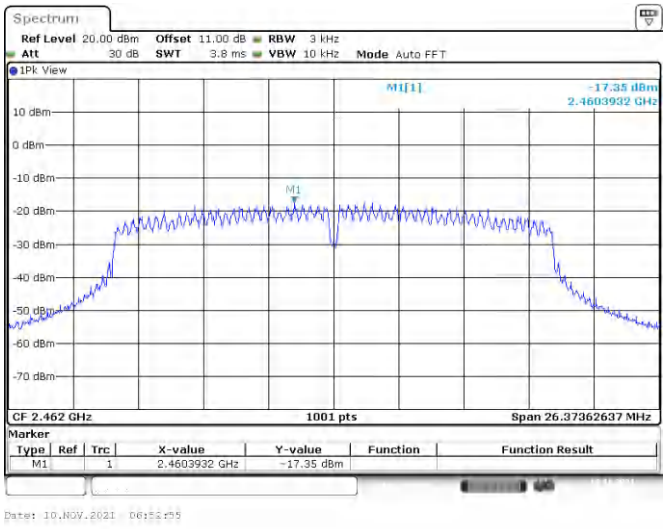
Channel 1



Channel 6



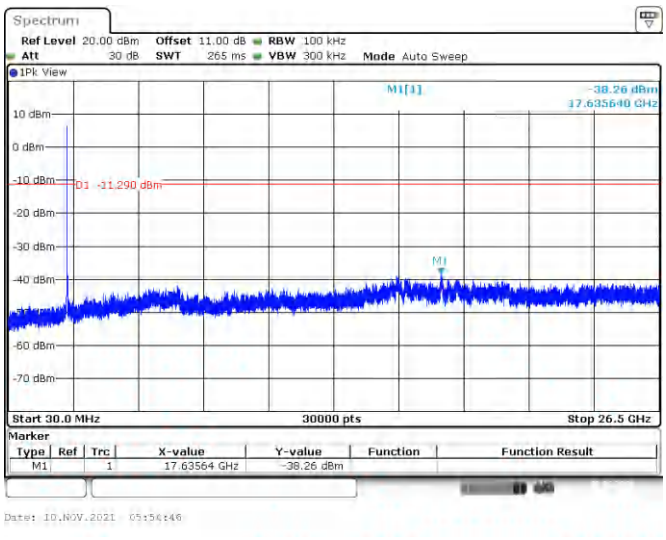
Channel 11



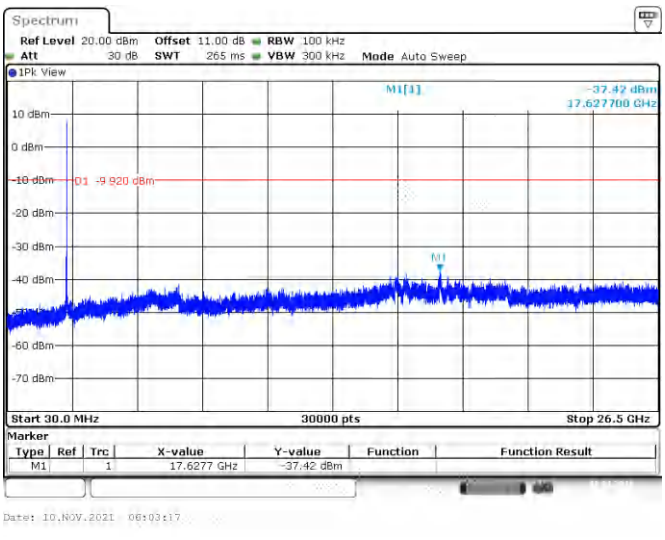
Test Result of Conducted Spurious Emissions

802.11b

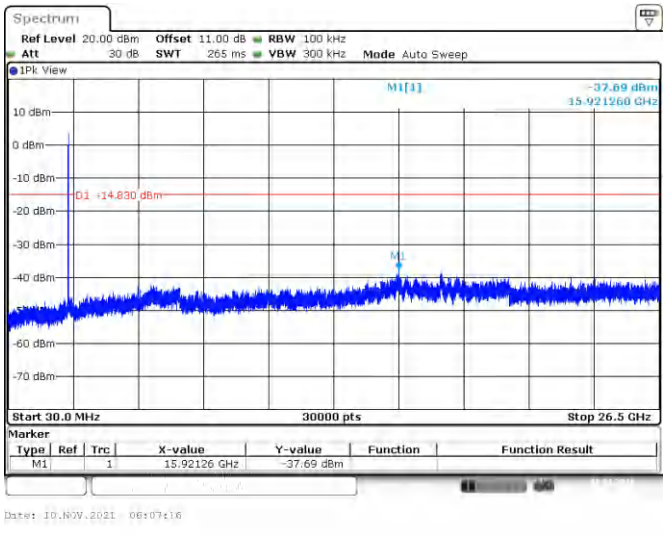
Channel 1



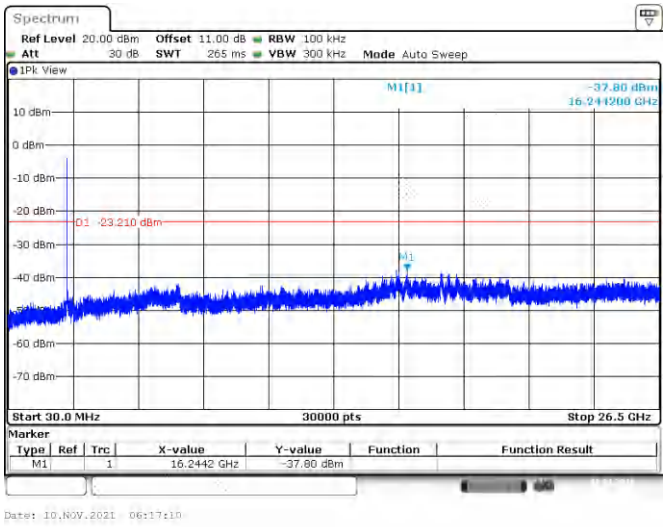
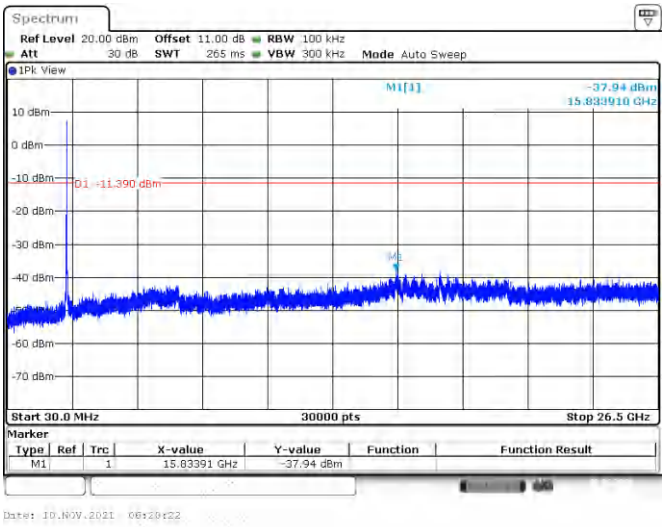
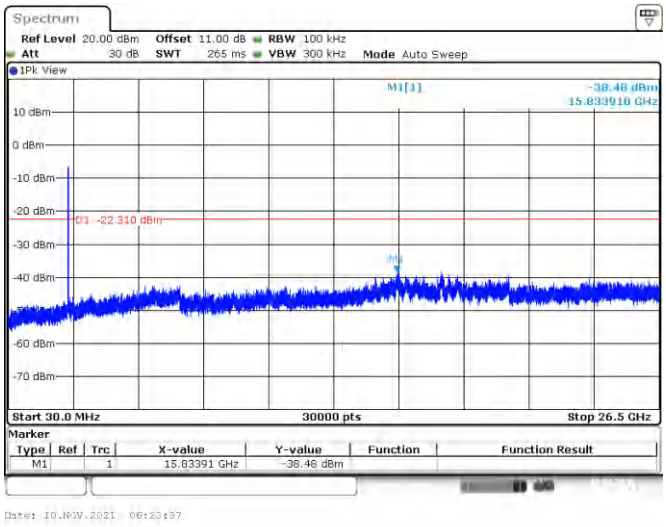
Channel 6



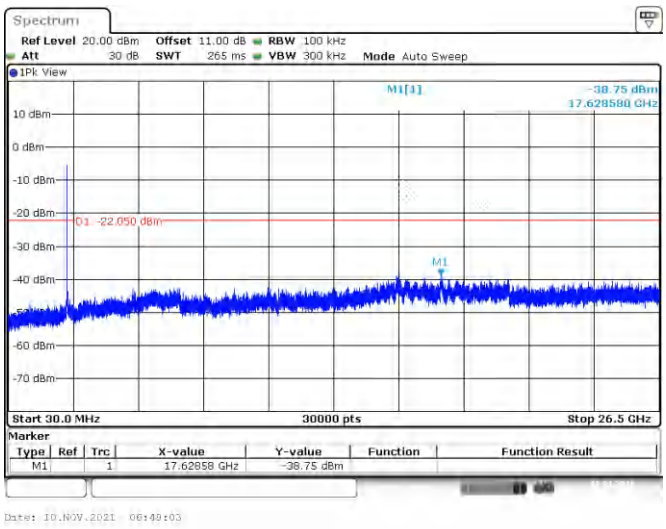
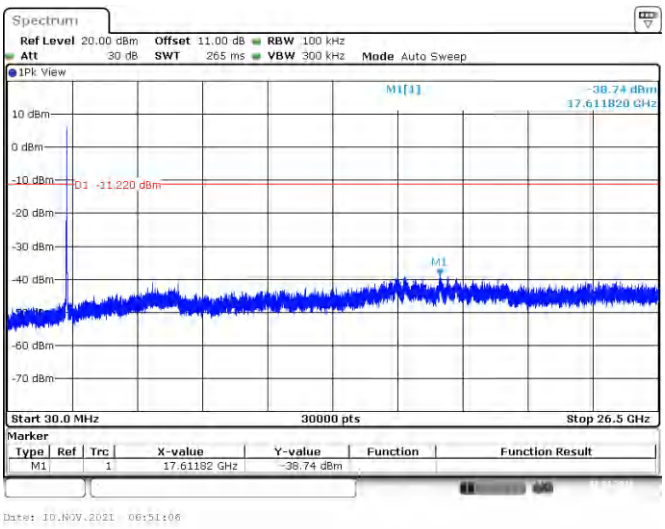
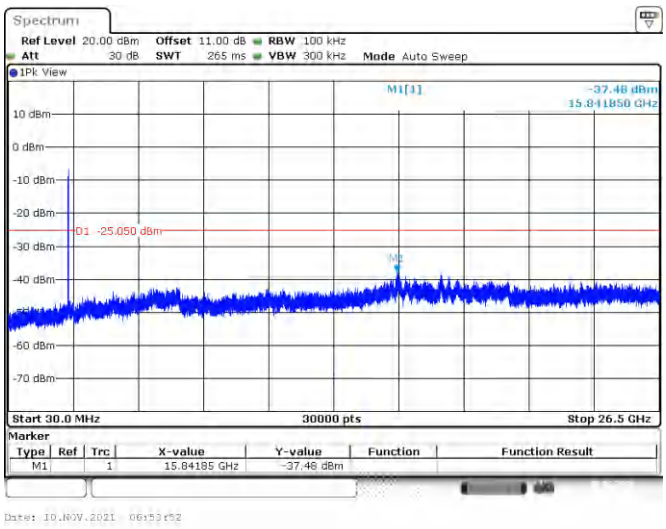
Channel 11



802.11g

Channel 1	Channel 6
	
Channel 11	
	

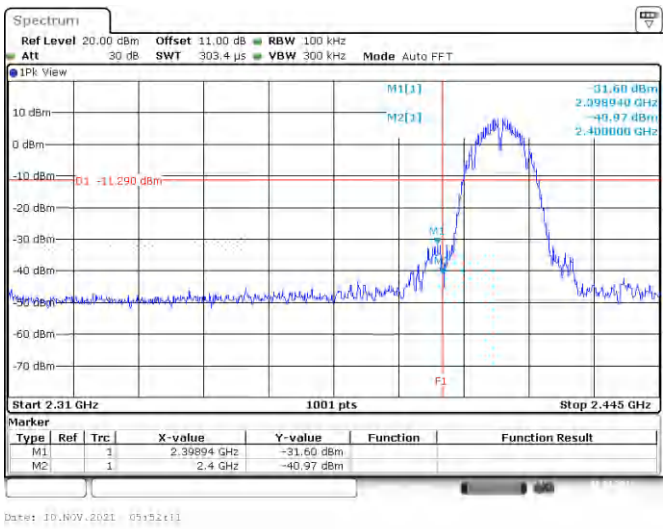
802.11n HT20

Channel 1	Channel 6
	
Channel 11	
	

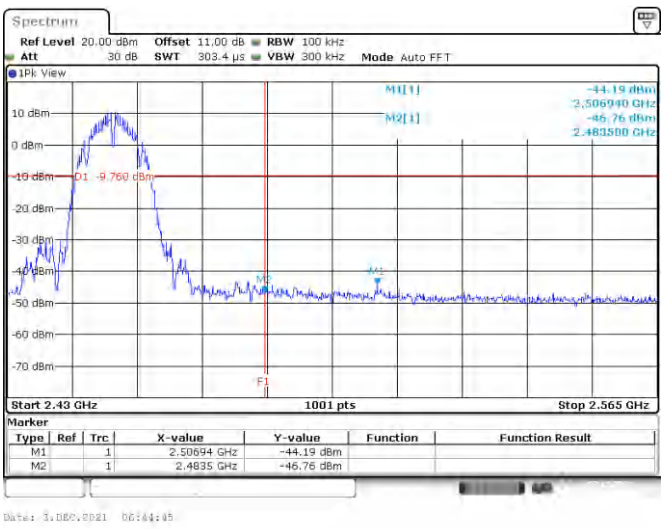
Test Result of Conducted Bandedge, Tx Mode

802.11b

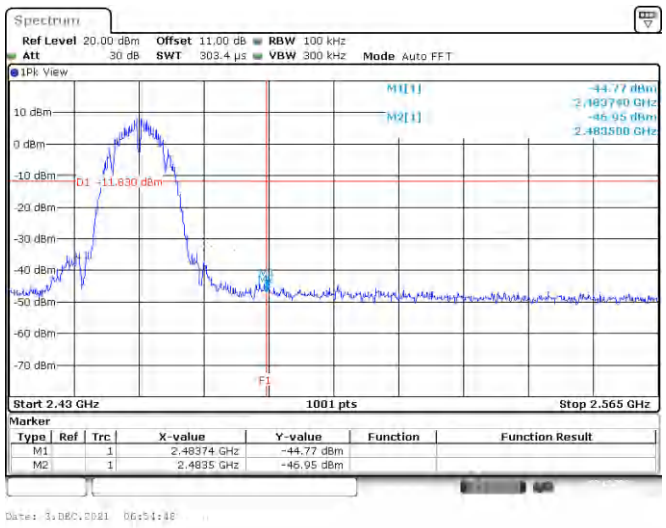
Channel 1



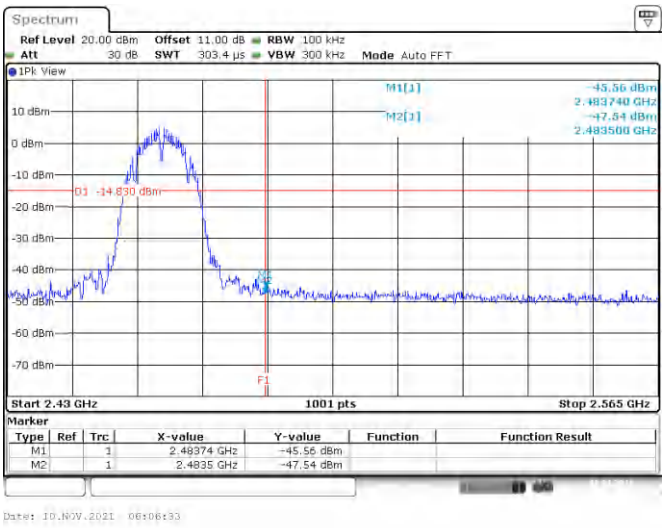
Channel 9



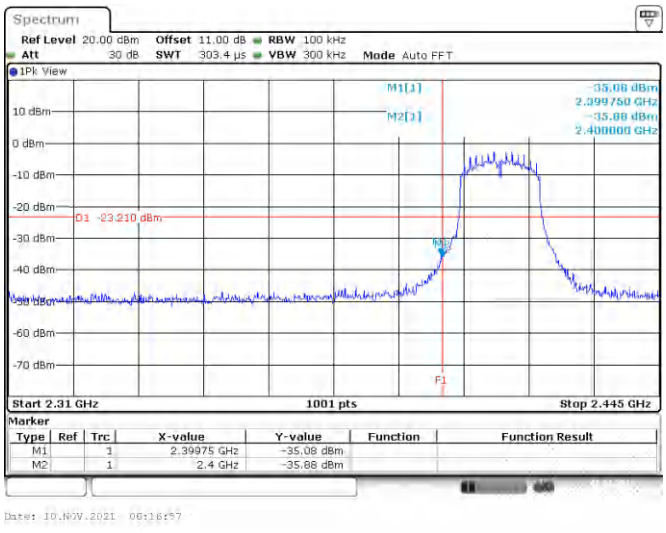
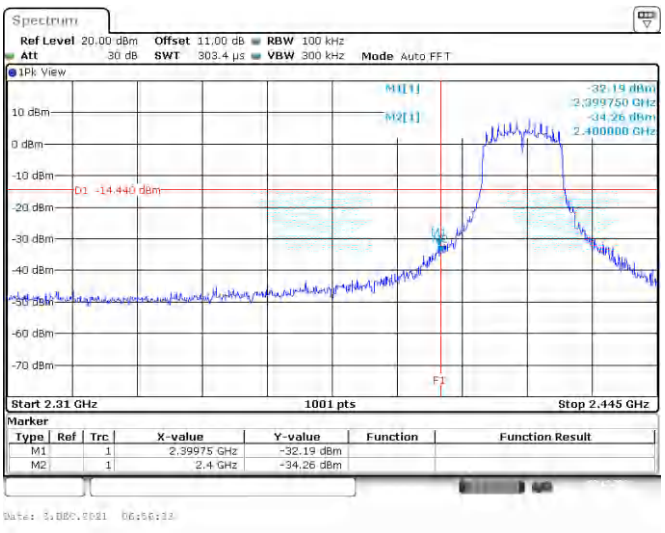
Channel 10

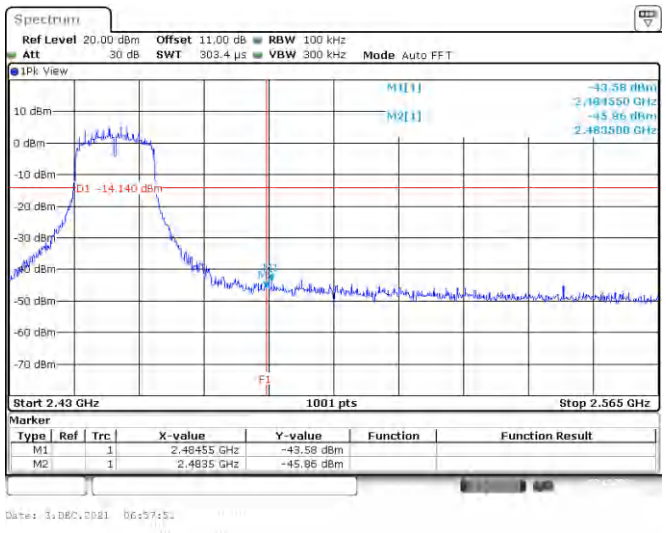
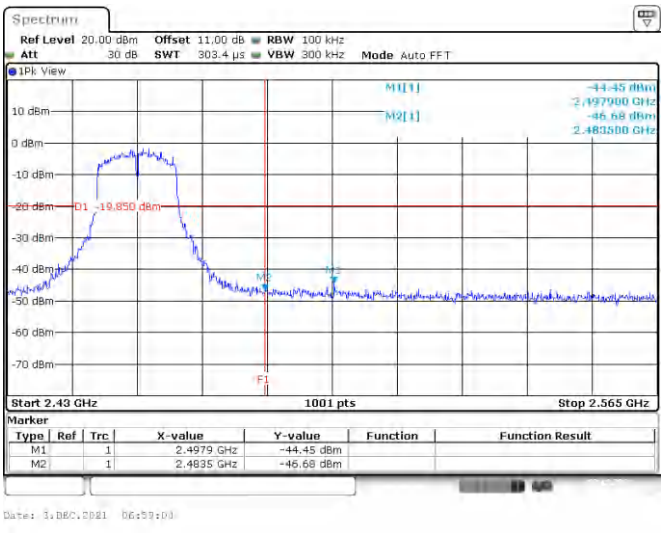


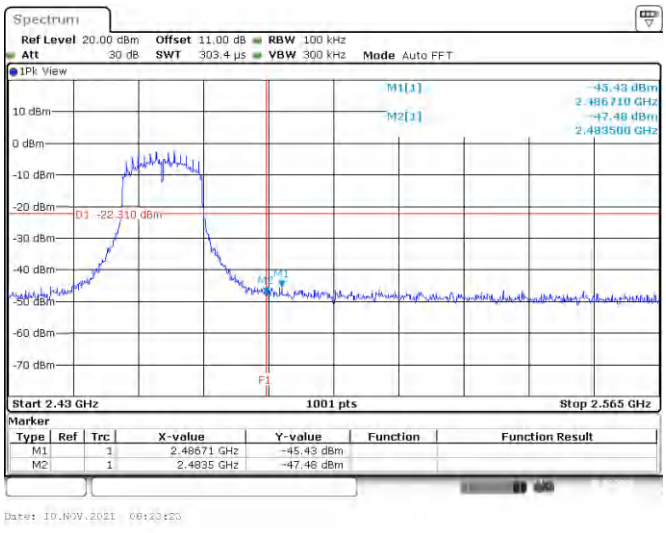
Channel 11



802.11g

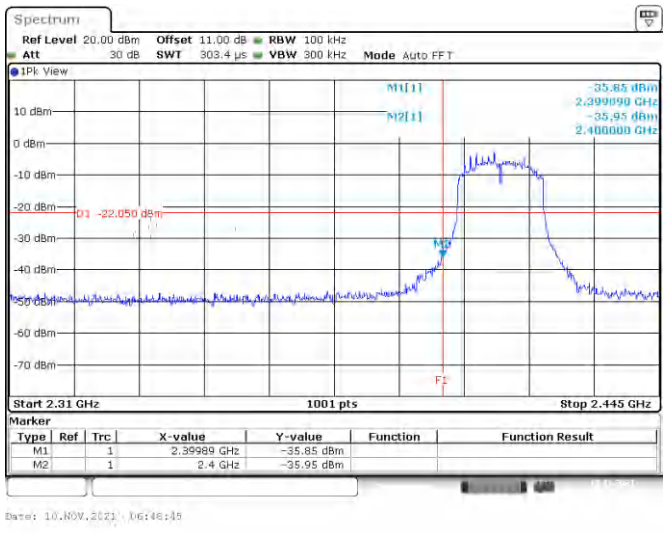
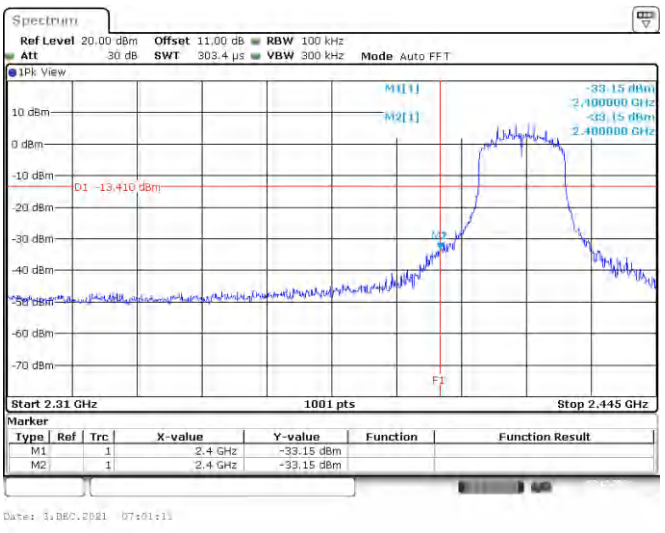
Channel 1	Channel 2
	

Channel 9	Channel 10
	

Channel 11	
	

Spectrum
Ref Level 20.00 dBm Offset 11.00 dB RBW 100 kHz
Att 30 dB SWT 303.4 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] -45.43 dBm
2.486710 GHz
M2[1] -47.48 dBm
2.483500 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
D1 -22.310 dBm
Start 2.43 GHz
1001 pts
Stop 2.565 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.48671 GHz -45.43 dBm
M2 1 2.4835 GHz -47.48 dBm

802.11n HT20

Channel 1	Channel 2
	

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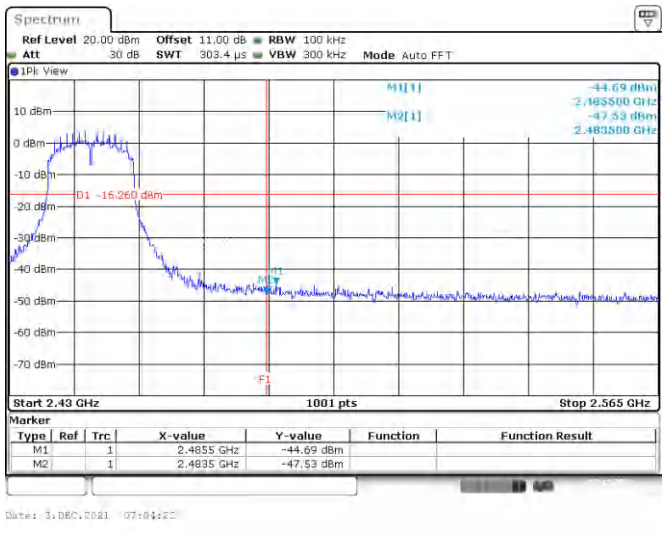
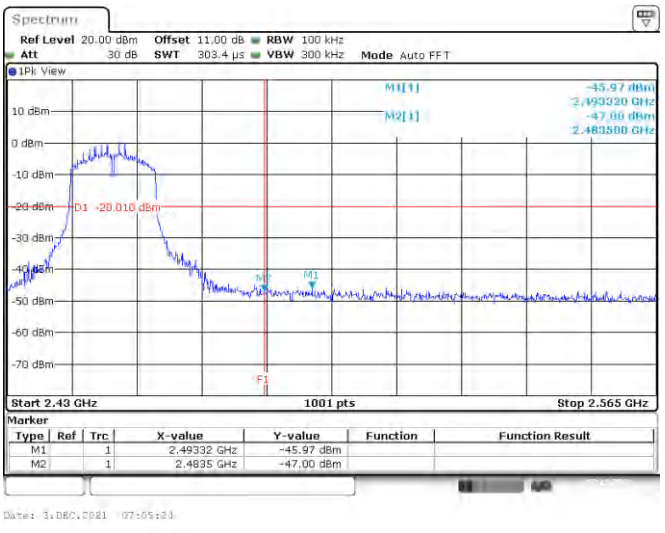
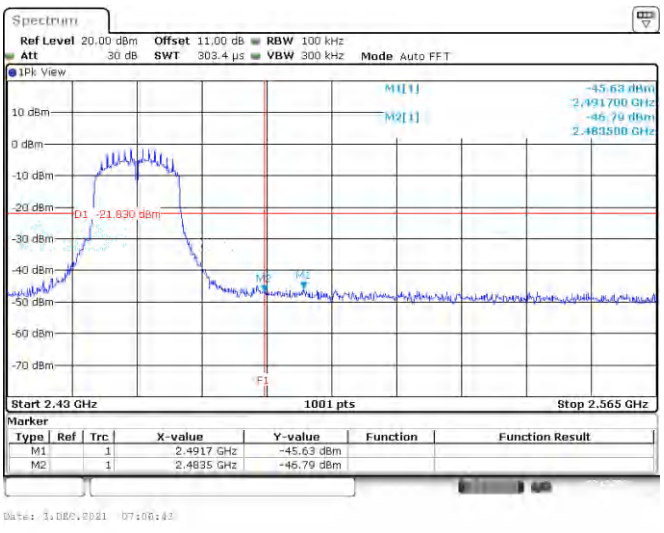
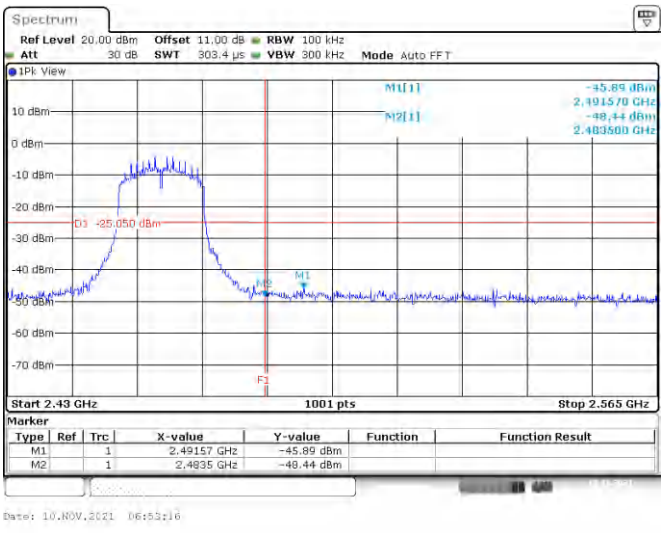
	

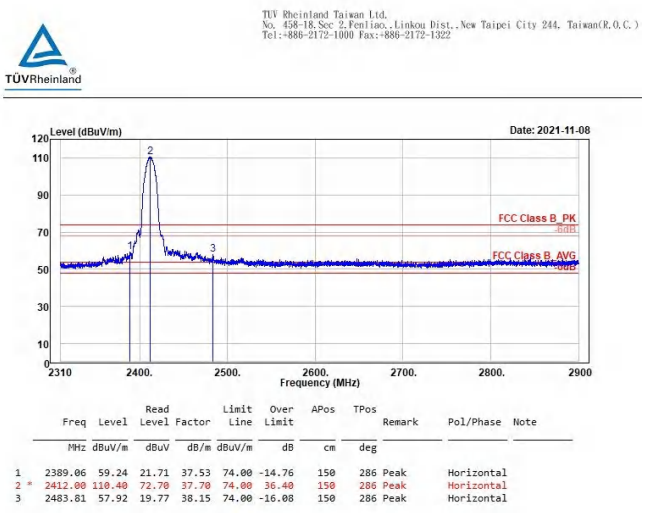
Channel 10	Channel 11
	

Appendix B: Test Results of Radiated Spurious Emissions & Mains Conducted Emission Test

Band Edges, 2.31GHz ~ 2.9GHz

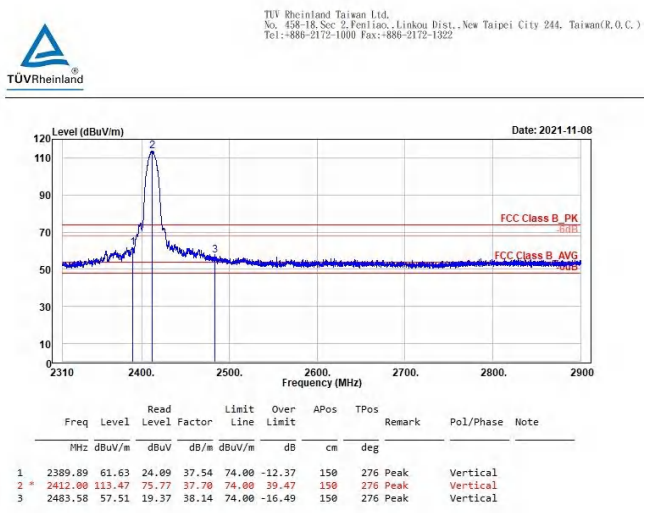
802.11b

Channel 1 (Horizontal) Peak



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.06	59.24	21.71	37.53	74.00	-14.76	150	286	Peak	Horizontal	
2 *	2412.00	110.40	72.70	37.70	74.00	36.40	150	286	Peak	Horizontal	
3	2483.81	57.92	19.77	38.15	74.00	-16.08	150	286	Peak	Horizontal	

Channel 1 (Vertical) Peak



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.89	61.63	24.09	37.54	74.00	-12.37	150	276	Peak	Vertical	
2 *	2412.00	113.47	75.77	37.70	74.00	39.47	150	276	Peak	Vertical	
3	2483.58	57.51	19.37	38.14	74.00	-16.49	150	276	Peak	Vertical	

802.11b

Channel 1 (Horizontal) Average

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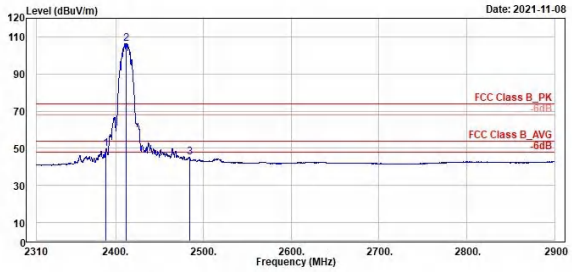

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.30	49.57	12.03	37.54	54.00	-4.43	150	286	Average	Horizontal	
2 *	2412.00	106.42	68.72	37.70	54.00	52.42	150	286	Average	Horizontal	
3	2484.05	45.36	7.21	38.15	54.00	-8.64	150	286	Average	Horizontal	

Channel 1 (Vertical) Average

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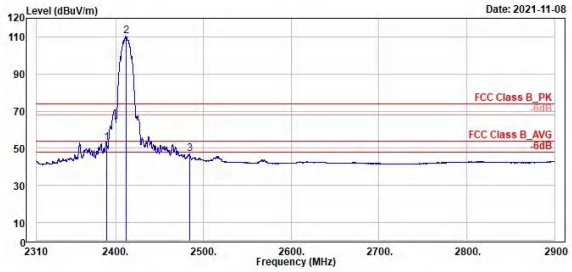
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.41	52.92	15.38	37.54	54.00	-1.08	150	276	Average	Vertical	
2 *	2412.00	110.38	72.68	37.70	54.00	56.38	150	276	Average	Vertical	
3	2484.17	46.94	8.79	38.15	54.00	-7.06	150	276	Average	Vertical	

802.11b

Channel 6 (Horizontal) Peak

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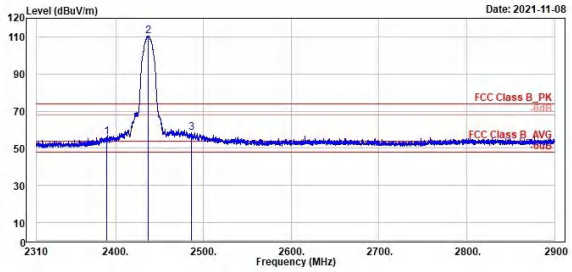

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.65	55.90	18.36	37.54	74.00	-18.10	150	285	Peak	Horizontal	
2 *	2437.00	110.49	72.61	37.88	74.00	36.49	150	285	Peak	Horizontal	
3	2486.06	58.42	20.27	38.15	74.00	-15.58	150	285	Peak	Horizontal	

Channel 6 (Vertical) Peak

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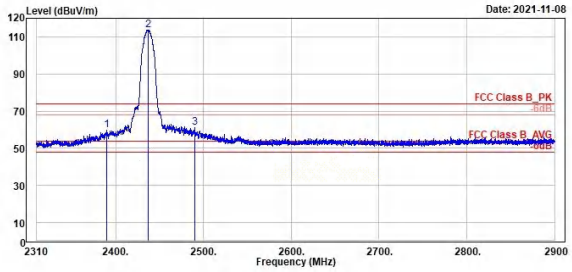
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.65	59.70	22.16	37.54	74.00	-14.30	150	276	Peak	Vertical	
2 *	2437.00	113.79	75.91	37.88	74.00	39.79	150	276	Peak	Vertical	
3	2490.30	61.00	22.82	38.18	74.00	-13.00	150	276	Peak	Vertical	

802.11b

Channel 6 (Horizontal) Average

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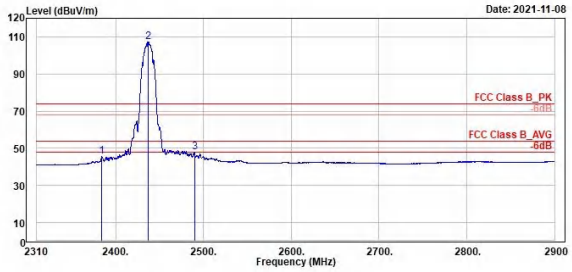

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2383.99	45.54	8.04	37.50	54.00	-8.46	150	285	Average	Horizontal	
2 *	2437.00	107.27	69.39	37.88	54.00	53.27	150	285	Average	Horizontal	
3	2489.83	47.71	9.53	38.18	54.00	-6.29	150	285	Average	Horizontal	

Channel 6 (Vertical) Average

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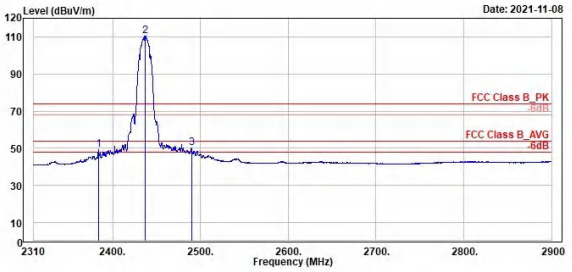

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2384.10	49.49	11.99	37.50	54.00	-4.51	150	276	Average	Vertical	
2 *	2437.00	110.57	72.69	37.88	54.00	56.57	150	276	Average	Vertical	
3 !	2489.95	50.19	12.01	38.18	54.00	-3.81	150	276	Average	Vertical	

802.11b

Channel 9 (Horizontal) Peak

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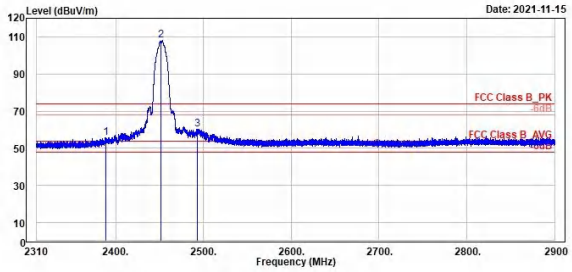

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.57	55.79	18.26	37.53	74.00	-18.21	181	0	Peak	Horizontal	
2 *	2452.00	107.96	69.98	37.98	74.00	33.96	181	0	Peak	Horizontal	
3	2493.56	60.41	22.22	38.19	74.00	-13.59	181	0	Peak	Horizontal	

Channel 9 (Vertical) Peak

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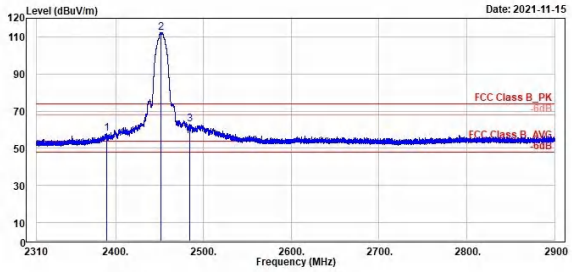

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.55	57.82	20.28	37.54	74.00	-16.18	150	0	Peak	Vertical	
2 *	2452.00	112.36	74.38	37.98	74.00	38.36	150	0	Peak	Vertical	
3	2484.02	62.83	24.68	38.15	74.00	-11.17	150	0	Peak	Vertical	

802.11b

Channel 9 (Horizontal) Average

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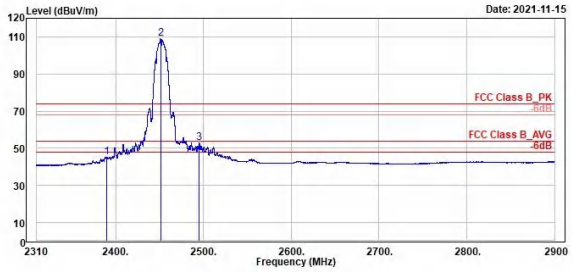

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.89	45.39	7.85	37.54	54.00	-8.61	150	360	Average	Vertical	
2 *	2452.00	108.86	70.88	37.98	54.00	54.86	150	360	Average	Vertical	
3 !	2495.16	53.08	14.88	38.20	54.00	-0.92	150	360	Average	Vertical	

Channel 9 (Vertical) Average

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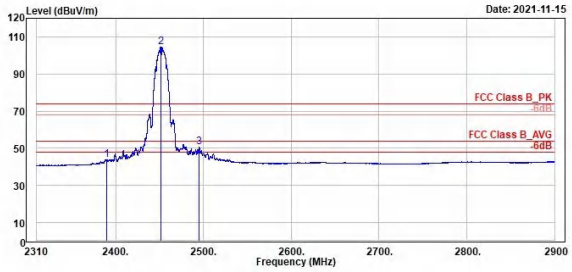
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.69	43.92	6.38	37.54	54.00	-10.08	181	0	Average	Horizontal	
2 *	2452.00	104.57	66.59	37.98	54.00	50.57	181	0	Average	Horizontal	
3 !	2495.26	50.65	12.45	38.20	54.00	-3.35	181	0	Average	Horizontal	

802.11b

Channel 10 (Horizontal) Peak

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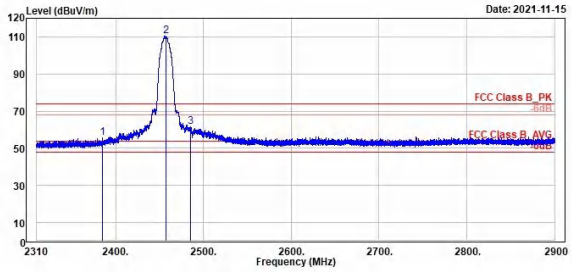

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2384.62	55.52	18.01	37.51	74.00	-18.48	181	360	Peak	Horizontal	
2 *	2457.00	110.25	72.24	38.01	74.00	36.25	181	360	Peak	Horizontal	
3	2485.30	61.68	23.53	38.15	74.00	-12.32	181	360	Peak	Horizontal	

Channel 10 (Vertical) Peak

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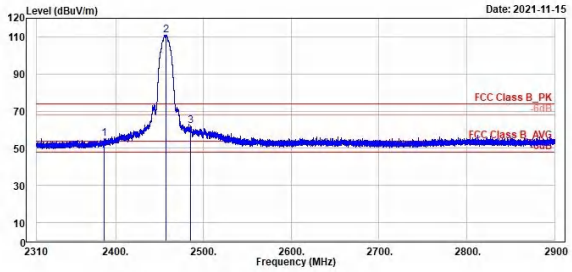
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.94	55.24	17.72	37.52	74.00	-18.76	150	360	Peak	Vertical	
2 *	2457.00	110.97	72.96	38.01	74.00	36.97	150	360	Peak	Vertical	
3	2485.65	61.87	23.72	38.15	74.00	-12.13	150	360	Peak	Vertical	

802.11b

Channel 10 (Horizontal) Average

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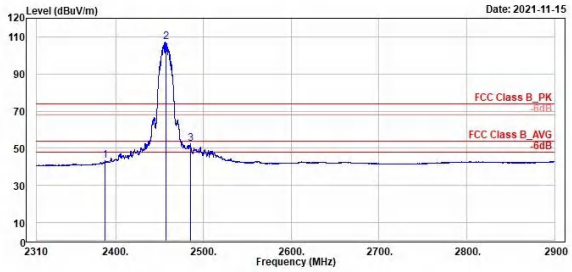

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.23	43.29	5.76	37.53	54.00	-10.71	181	360	Average	Horizontal	
2 *	2457.00	107.10	69.09	38.01	54.00	53.10	181	360	Average	Horizontal	
3 !	2485.23	52.53	14.38	38.15	54.00	-1.47	181	360	Average	Horizontal	

Channel 10 (Vertical) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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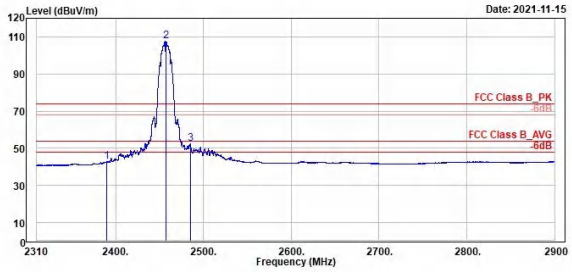

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.93	42.93	5.39	37.54	54.00	-11.07	150	360	Average	Vertical	
2 *	2457.00	107.84	69.83	38.01	54.00	53.84	150	360	Average	Vertical	
3 !	2485.23	52.46	14.31	38.15	54.00	-1.54	150	360	Average	Vertical	

802.11b

Channel 11 (Horizontal) Peak

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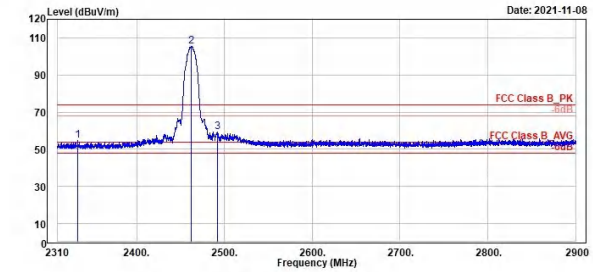

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2333.25	54.57	17.36	37.21	74.00	-19.43	150	286	Peak	Horizontal	
2 *	2462.00	105.55	67.51	38.04	74.00	31.55	150	286	Peak	Horizontal	
3	2492.43	59.36	21.17	38.19	74.00	-14.64	150	286	Peak	Horizontal	

Channel 11 (Vertical) Peak

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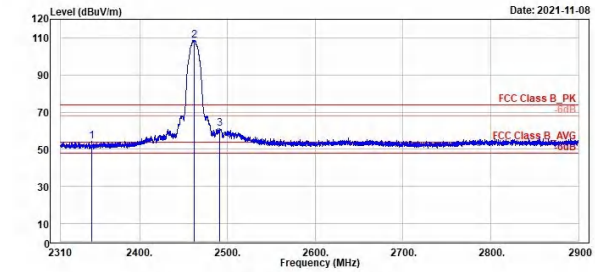
No. 458-18, Sec 2, Fenliao, , Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2345.64	54.47	17.23	37.24	74.00	-19.53	150	292	Peak	Vertical	
2 *	2462.00	108.66	70.62	38.04	74.00	34.66	150	292	Peak	Vertical	
3	2491.48	61.30	23.11	38.19	74.00	-12.70	150	292	Peak	Vertical	

802.11b

Channel 11 (Horizontal) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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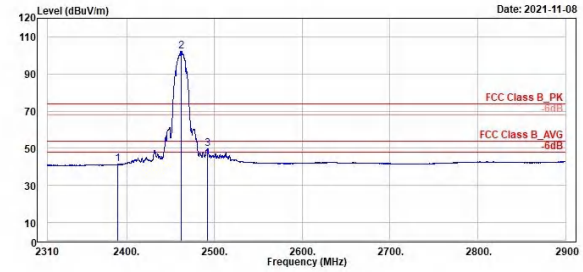

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.53	41.29	3.75	37.54	54.00	-12.71	150	286	Average	Horizontal	
2 *	2462.00	102.24	64.20	38.04	54.00	48.24	150	286	Average	Horizontal	
3 !	2492.55	49.67	11.48	38.19	54.00	-4.33	150	286	Average	Horizontal	

Channel 11 (Vertical) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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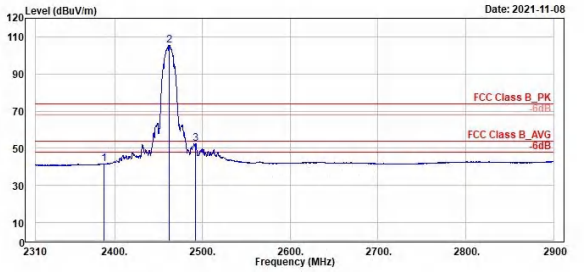

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.64	41.68	4.15	37.53	54.00	-12.32	150	292	Average	Vertical	
2 *	2462.00	105.51	67.47	38.04	54.00	51.51	150	292	Average	Vertical	
3 !	2492.19	52.43	14.24	38.19	54.00	-1.57	150	292	Average	Vertical	

802.11g

Channel 1 (Horizontal) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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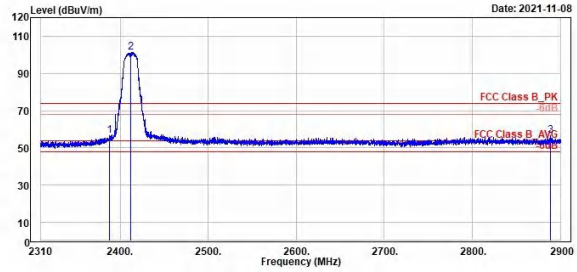

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.35	56.42	18.89	37.53	74.00	-17.58	150	286	Peak	Horizontal	
2 *	2412.00	101.27	63.57	37.70	74.00	27.27	150	286	Peak	Horizontal	
3	2888.67	56.37	17.84	38.53	74.00	-17.63	150	286	Peak	Horizontal	

Channel 1 (Vertical) Peak

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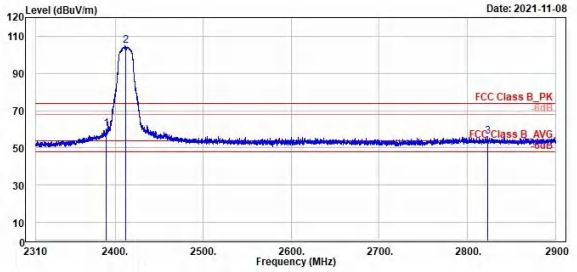
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	60.28	22.74	37.54	74.00	-13.72	150	275	Peak	Vertical	
2 *	2412.00	104.90	67.20	37.70	74.00	30.90	150	275	Peak	Vertical	
3	2823.06	56.11	17.81	38.30	74.00	-17.89	150	275	Peak	Vertical	

802.11g

Channel 1 (Horizontal) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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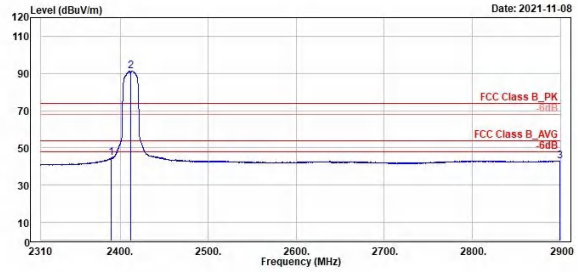

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	44.51	6.97	37.54	54.00	-9.49	150	286	Average	Horizontal	
2 *	2412.00	91.38	53.68	37.70	54.00	37.38	150	286	Average	Horizontal	
3	2898.94	43.06	4.47	38.59	54.00	-10.94	150	286	Average	Horizontal	

Channel 1 (Vertical) Average

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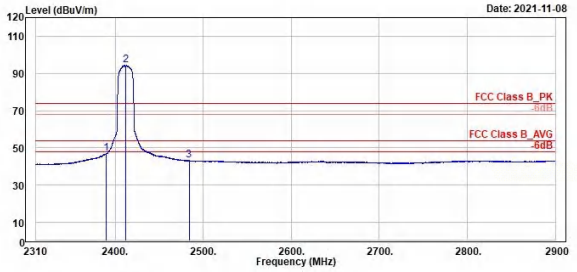

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.77	47.06	9.52	37.54	54.00	-6.94	150	275	Average	Vertical	
2 *	2412.00	94.29	56.59	37.70	54.00	40.29	150	275	Average	Vertical	
3	2483.93	43.32	5.17	38.15	54.00	-10.68	150	275	Average	Vertical	

802.11g

Channel 2 (Horizontal) Peak

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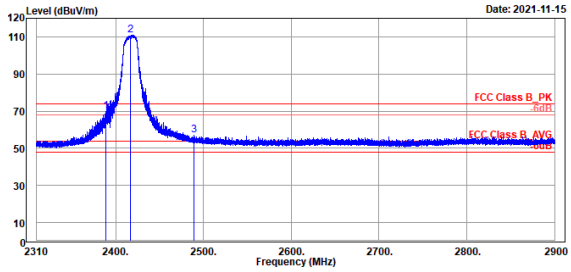

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2388.68	69.79	32.26	37.53	74.00	-4.21	175	360	Peak	Horizontal	
2 *	2417.00	111.10	73.37	37.73	74.00	37.10	175	360	Peak	Horizontal	
3	2488.87	56.94	18.76	38.18	74.00	-17.06	175	360	Peak	Horizontal	

Channel 2 (Vertical) Peak

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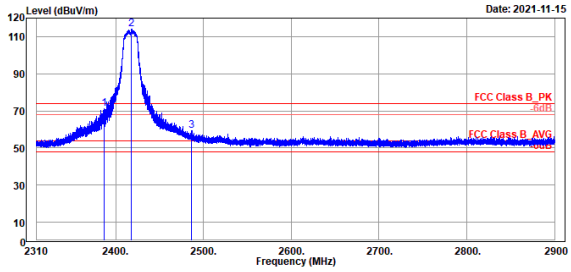
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2386.67	71.28	33.76	37.52	74.00	-2.72	150	0	Peak	Vertical	
2 *	2417.69	114.19	76.45	37.74	74.00	40.19	150	0	Peak	Vertical	
3	2486.38	59.16	21.00	38.16	74.00	-14.84	150	0	Peak	Vertical	

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Channel 2 (Horizontal) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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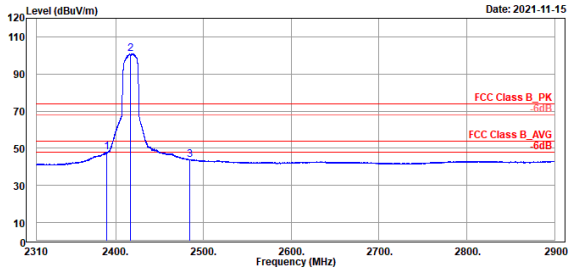

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	47.85	10.31	37.54	54.00	-6.15	175	360	Average	Horizontal	
2 *	2417.00	101.06	63.33	37.73	54.00	47.06	175	360	Average	Horizontal	
3	2483.98	44.00	5.85	38.15	54.00	-10.00	175	360	Average	Horizontal	

Channel 2 (Vertical) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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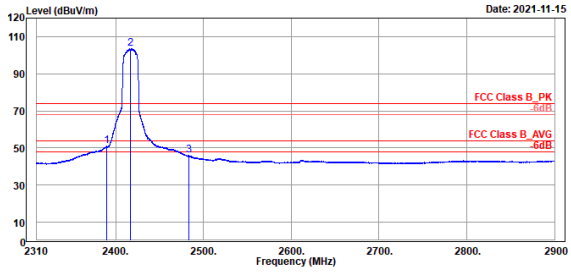

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.93	50.94	13.40	37.54	54.00	-3.06	150	0	Average	Vertical	
2 *	2417.00	103.64	65.91	37.73	54.00	49.64	150	0	Average	Vertical	
3	2483.84	45.86	7.71	38.15	54.00	-8.14	150	0	Average	Vertical	

802.11g

Channel 6 (Horizontal) Peak

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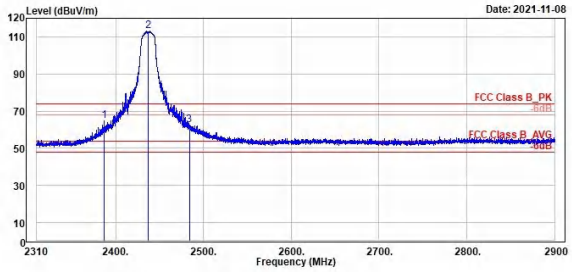

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.17	64.75	27.23	37.52	74.00	-9.25	150	286	Peak	Horizontal	
2 *	2437.00	113.04	75.16	37.88	74.00	39.04	150	286	Peak	Horizontal	
3	2483.93	62.70	24.55	38.15	74.00	-11.30	150	286	Peak	Horizontal	

Channel 6 (Vertical) Peak

TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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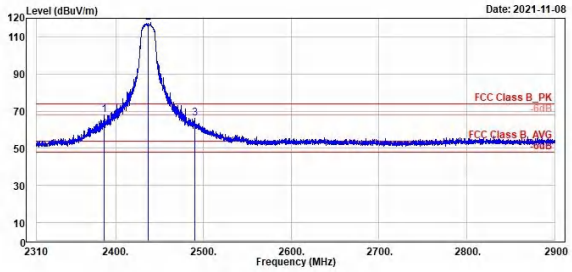

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.41	67.82	30.30	37.52	74.00	-6.18	150	274	Peak	Vertical	
2 *	2437.00	117.60	79.72	37.88	74.00	43.60	150	274	Peak	Vertical	
3	2490.07	66.36	28.18	38.18	74.00	-7.64	150	274	Peak	Vertical	

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Channel 6 (Horizontal) Average

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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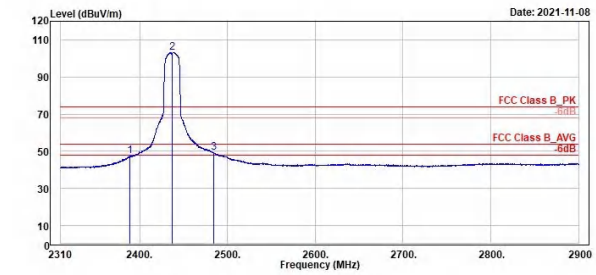

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.30	47.41	9.87	37.54	54.00	-6.59	150	286	Average	Horizontal	
2 *	2437.00	103.30	65.42	37.88	54.00	49.30	150	286	Average	Horizontal	
3 !	2484.29	49.36	11.21	38.15	54.00	-4.64	150	286	Average	Horizontal	

Channel 6 (Vertical) Average

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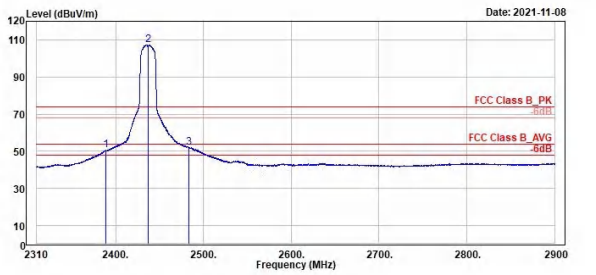
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2388.59	50.50	12.97	37.53	54.00	-3.50	150	274	Average	Vertical	
2 *	2437.00	107.40	69.52	37.88	54.00	53.40	150	274	Average	Vertical	
3 !	2483.58	51.97	13.83	38.14	54.00	-2.03	150	274	Average	Vertical	

802.11g

Channel 9 (Horizontal) Peak

TÜV Rheinland Taiwan Ltd.
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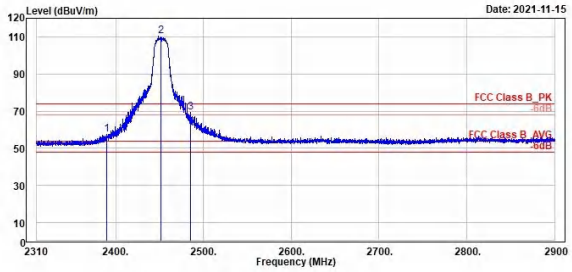
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	57.51	19.97	37.54	74.00	-16.49	175	360	Peak	Horizontal	
2 *	2452.00	110.32	72.34	37.98	74.00	36.32	175	360	Peak	Horizontal	
3 !	2485.11	69.28	31.13	38.15	74.00	-4.72	175	360	Peak	Horizontal	

Channel 9 (Vertical) Peak

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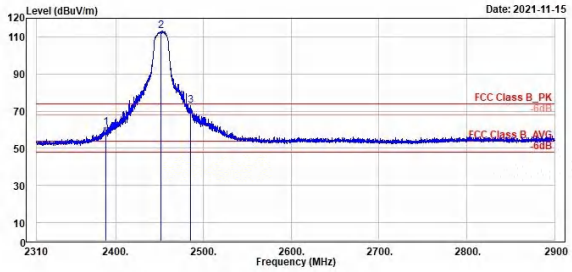
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.06	61.18	23.65	37.53	74.00	-12.82	150	360	Peak	Vertical	
2 *	2452.00	113.27	75.29	37.98	74.00	39.27	150	360	Peak	Vertical	
3 !	2485.47	73.21	35.06	38.15	74.00	-0.79	150	360	Peak	Vertical	

802.11g

Channel 9 (Horizontal) Average

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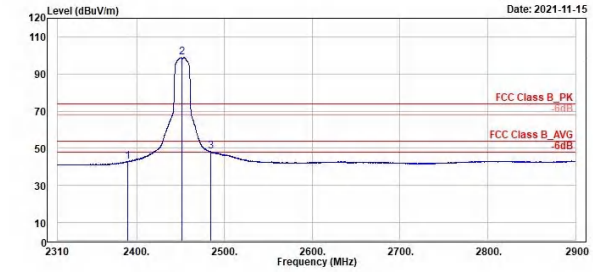

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.65	42.96	5.42	37.54	54.00	-11.04	175	360	Average	Horizontal	
2 *	2452.00	98.85	60.87	37.98	54.00	44.85	175	360	Average	Horizontal	
3 !	2484.17	48.23	10.08	38.15	54.00	-5.77	175	360	Average	Horizontal	

Channel 9 (Vertical) Average

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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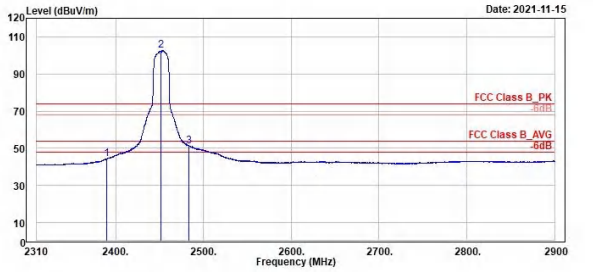

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	44.42	6.88	37.54	54.00	-9.58	150	360	Average	Vertical	
2 *	2452.00	102.71	64.73	37.98	54.00	48.71	150	360	Average	Vertical	
3 !	2483.70	51.32	13.18	38.14	54.00	-2.68	150	360	Average	Vertical	

802.11g

Channel 10 (Horizontal) Peak

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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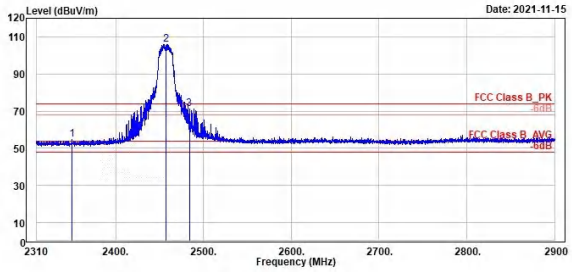

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2350.12	54.81	17.55	37.26	74.00	-19.19	175	360	Peak	Horizontal	
2 *	2457.00	106.00	67.99	38.01	74.00	32.00	175	360	Peak	Horizontal	
3 !	2483.93	71.29	33.14	38.15	74.00	-2.71	175	360	Peak	Horizontal	

Channel 10 (Vertical) Peak

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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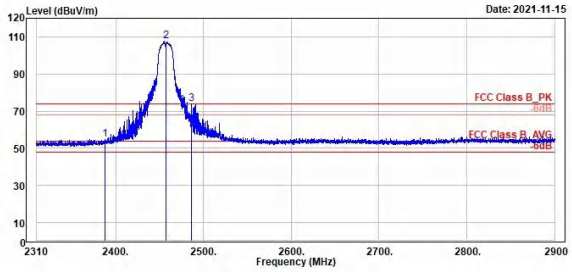

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.88	54.96	17.43	37.53	74.00	-19.04	150	360	Peak	Vertical	
2 *	2457.00	107.49	69.48	38.01	74.00	33.49	150	360	Peak	Vertical	
3 !	2486.65	73.75	35.59	38.16	74.00	-0.25	150	360	Peak	Vertical	

802.11g

Channel 10 (Horizontal) Average

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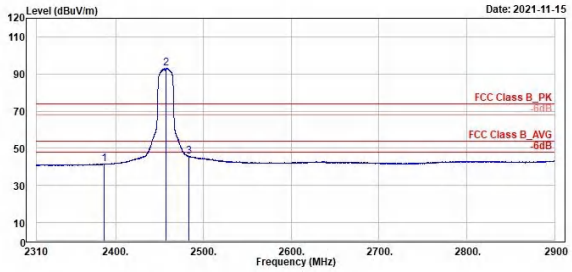

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.17	41.54	4.02	37.52	54.00	-12.46	175	360	Average	Horizontal	
2 *	2457.00	93.01	55.00	38.01	54.00	39.01	175	360	Average	Horizontal	
3	2483.70	45.71	7.57	38.14	54.00	-8.29	175	360	Average	Horizontal	

Channel 10 (Vertical) Average

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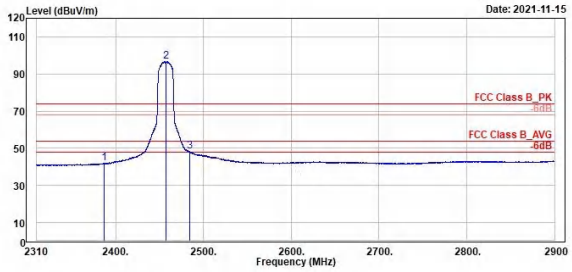

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.58	41.97	4.45	37.52	54.00	-12.03	150	360	Average	Vertical	
2 *	2457.00	96.68	58.67	38.01	54.00	42.68	150	360	Average	Vertical	
3 !	2484.64	48.23	10.08	38.15	54.00	-5.77	150	360	Average	Vertical	

802.11g

Channel 11 (Horizontal) Peak

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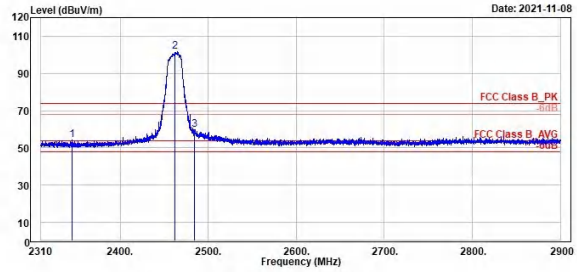

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2345.52	54.46	17.22	37.24	74.00	-19.54	150	287	Peak	Horizontal	
2 *	2462.00	101.71	63.67	38.04	74.00	27.71	150	287	Peak	Horizontal	
3	2484.88	59.96	21.81	38.15	74.00	-14.04	150	287	Peak	Horizontal	

Channel 11 (Vertical) Peak

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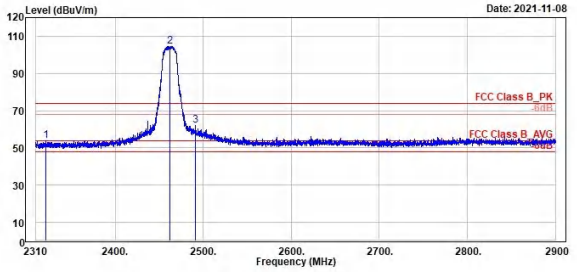

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2320.97	53.99	16.83	37.16	74.00	-20.01	150	274	Peak	Vertical	
2 *	2462.00	104.69	66.65	38.04	74.00	30.69	150	274	Peak	Vertical	
3	2491.37	62.08	23.89	38.19	74.00	-11.92	150	274	Peak	Vertical	

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Channel 11 (Horizontal) Average

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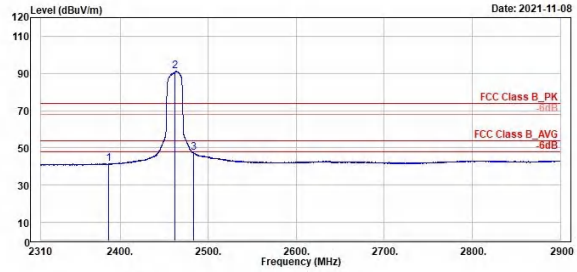

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.17	41.53	4.01	37.52	54.00	-12.47	150	287	Average	Horizontal	
2 *	2462.00	91.12	53.08	38.04	54.00	37.12	150	287	Average	Horizontal	
3	2483.46	47.44	9.30	38.14	54.00	-6.56	150	287	Average	Horizontal	

Channel 11 (Vertical) Average

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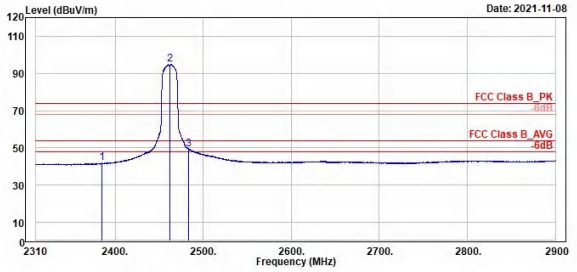

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2384.81	41.84	4.33	37.51	54.00	-12.16	150	274	Average	Vertical	
2 *	2462.00	94.76	56.72	38.04	54.00	40.76	150	274	Average	Vertical	
3 !	2483.46	49.35	11.21	38.14	54.00	-4.65	150	274	Average	Vertical	

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Channel 1 (Horizontal) Peak

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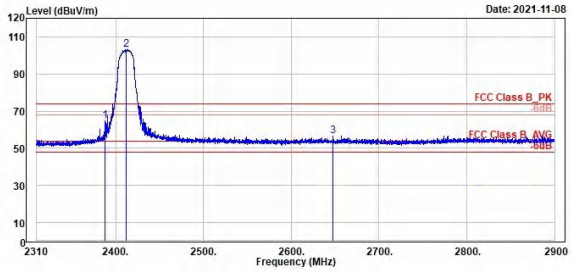

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.88	64.97	27.44	37.53	74.00	-9.03	150	285	Peak	Horizontal	
2 *	2412.00	103.11	65.41	37.70	74.00	29.11	150	285	Peak	Horizontal	
3	2647.24	56.58	18.57	38.01	74.00	-17.42	150	285	Peak	Horizontal	

Channel 1 (Vertical) Peak

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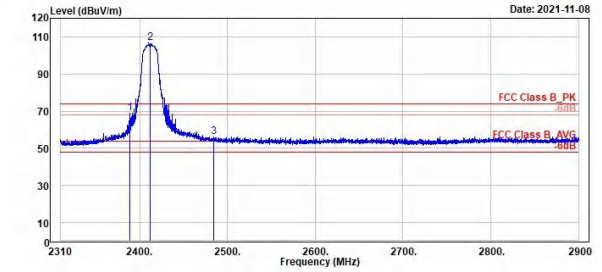

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2388.82	68.75	31.22	37.53	74.00	-5.25	150	275	Peak	Vertical	
2 *	2412.00	106.68	68.98	37.70	74.00	32.68	150	275	Peak	Vertical	
3	2484.76	56.17	18.02	38.15	74.00	-17.83	150	275	Peak	Vertical	

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Channel 1 (Horizontal) Average

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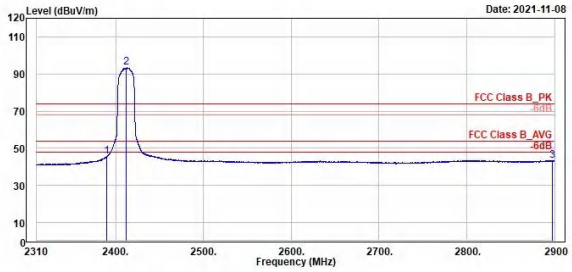

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2390.00	45.46	7.92	37.54	54.00	-8.54	150	285	Average	Horizontal	
2 *	2412.00	93.39	55.69	37.70	54.00	39.39	150	285	Average	Horizontal	
3	2896.93	43.49	4.91	38.58	54.00	-10.51	150	285	Average	Horizontal	

Channel 1 (Vertical) Average

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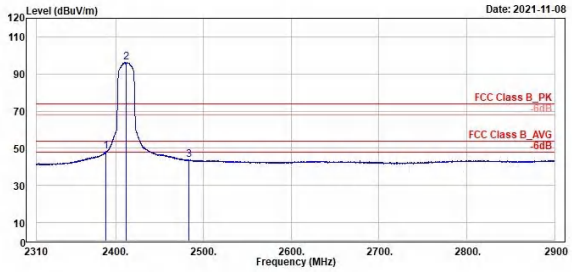

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.18	48.20	10.66	37.54	54.00	-5.80	150	275	Average	Vertical	
2 *	2412.00	96.24	58.54	37.70	54.00	42.24	150	275	Average	Vertical	
3	2483.81	43.74	5.59	38.15	54.00	-10.26	150	275	Average	Vertical	

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Channel 2 (Horizontal) Peak

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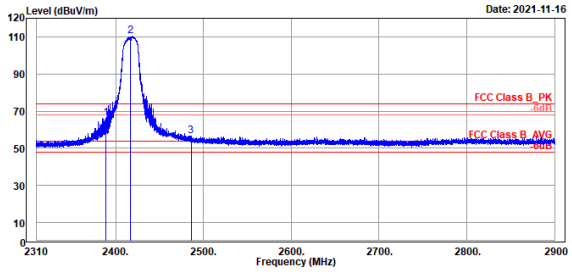

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.30	66.29	28.75	37.54	74.00	-7.71	177	360	Peak	Horizontal	
2 *	2417.00	110.28	72.55	37.73	74.00	36.28	177	360	Peak	Horizontal	
3	2485.88	56.59	18.44	38.15	74.00	-17.41	177	360	Peak	Horizontal	

Channel 2 (Vertical) Peak

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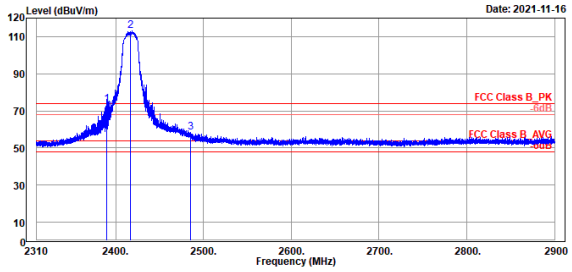
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.71	73.27	35.73	37.54	74.00	-0.73	160	0	Peak	Vertical	
2 *	2417.00	112.98	75.25	37.73	74.00	38.98	160	0	Peak	Vertical	
3	2485.05	58.44	20.29	38.15	74.00	-15.56	160	0	Peak	Vertical	

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Channel 2 (Horizontal) Average

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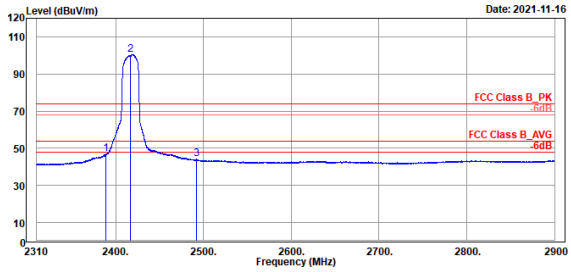

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.12	46.83	9.30	37.53	54.00	-7.17	177	360	Average	Horizontal	
2 *	2417.00	100.60	62.87	37.73	54.00	46.60	177	360	Average	Horizontal	
3	2491.90	44.12	5.93	38.19	54.00	-9.88	177	360	Average	Horizontal	

Channel 2 (Vertical) Average

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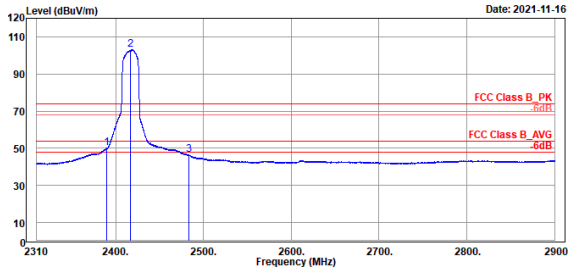

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.95	50.20	12.66	37.54	54.00	-3.80	160	0	Average	Vertical	
2 *	2417.00	102.95	65.22	37.73	54.00	48.95	160	0	Average	Vertical	
3	2483.46	46.36	8.22	38.14	54.00	-7.64	160	0	Average	Vertical	

802.11n HT20	
Channel 6 (Horizontal) Peak	**Channel 6 (Vertical) Peak**

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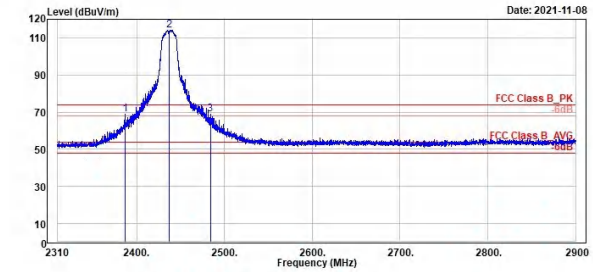

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2387.29	68.74	31.22	37.52	74.00	-5.26	150	286	Peak	Horizontal	
2 *	2437.00	114.26	76.38	37.88	74.00	40.26	150	286	Peak	Horizontal	
3 !	2483.93	68.98	30.83	38.15	74.00	-5.02	150	286	Peak	Horizontal	

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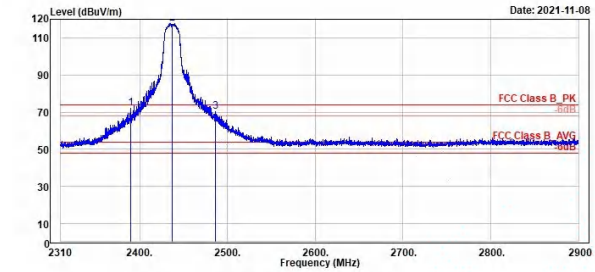

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.77	72.00	34.46	37.54	74.00	-2.00	151	274	Peak	Vertical	
2 *	2437.00	117.72	79.84	37.88	74.00	43.72	151	274	Peak	Vertical	
3 !	2486.41	70.23	32.07	38.16	74.00	-3.77	151	274	Peak	Vertical	

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Channel 6 (Horizontal) Average

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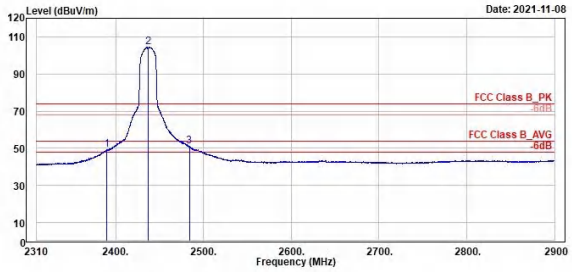

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.53	49.06	11.52	37.54	54.00	-4.94	150	286	Average	Horizontal	
2 *	2437.00	104.58	66.70	37.88	54.00	50.58	150	286	Average	Horizontal	
3 !	2483.93	50.98	12.83	38.15	54.00	-3.02	150	286	Average	Horizontal	

Channel 6 (Vertical) Average

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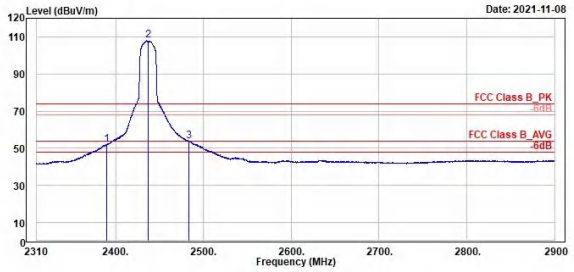

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	2389.77	52.16	14.62	37.54	54.00	-1.84	151	274	Average	Vertical	
2 *	2437.00	107.96	70.08	37.88	54.00	53.96	151	274	Average	Vertical	
3 !	2483.70	53.82	15.68	38.14	54.00	-0.18	151	274	Average	Vertical	

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Channel 8 (Horizontal) Peak

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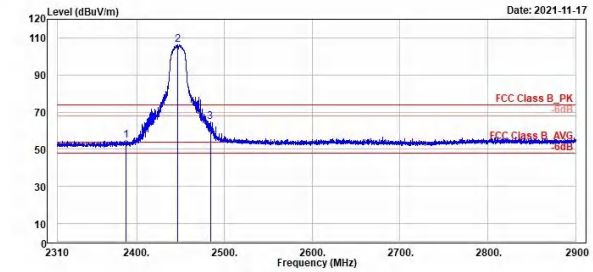

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.53	54.68	17.15	37.53	74.00	-19.32	231	45	Peak	Horizontal	
2 *	2447.00	106.35	68.40	37.95	74.00	32.35	231	45	Peak	Horizontal	
3	2483.93	64.61	26.46	38.15	74.00	-9.39	231	45	Peak	Horizontal	

Channel 8 (Vertical) Peak

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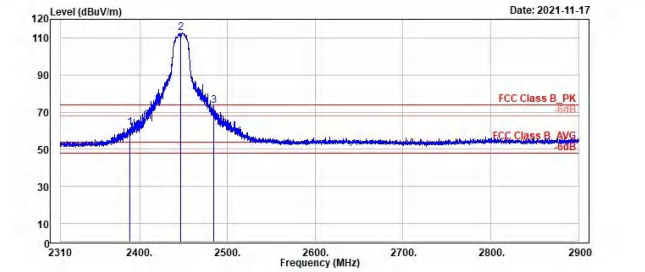

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.47	61.71	24.18	37.53	74.00	-12.29	113	360	Peak	Vertical	
2 *	2447.00	112.75	74.80	37.95	74.00	38.75	113	360	Peak	Vertical	
3 !	2484.64	73.40	35.25	38.15	74.00	-0.60	113	360	Peak	Vertical	

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Channel 8 (Horizontal) Average

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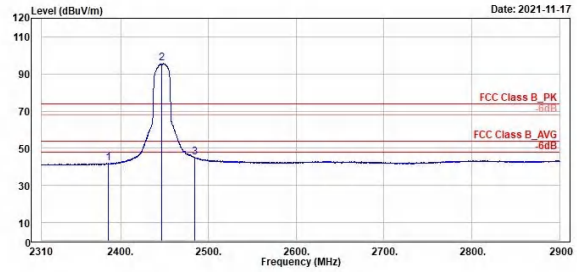

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2385.87	41.91	4.39	37.52	54.00	-12.09	231	45	Average	Horizontal	
2 *	2447.00	95.77	57.82	37.95	54.00	41.77	231	45	Average	Horizontal	
3	2484.40	45.29	7.14	38.15	54.00	-8.71	231	45	Average	Horizontal	

Channel 8 (Vertical) Average

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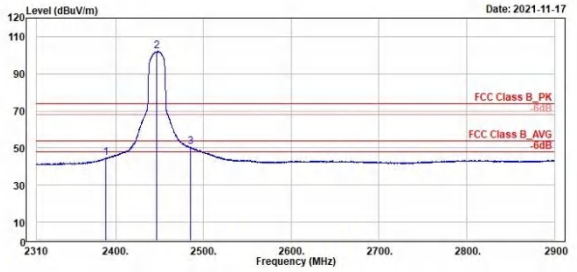

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.59	44.71	7.18	37.53	54.00	-9.29	113	360	Average	Vertical	
2 *	2447.00	102.36	64.41	37.95	54.00	48.36	113	360	Average	Vertical	
3 !	2484.99	50.47	12.32	38.15	54.00	-3.53	113	360	Average	Vertical	

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Channel 9 (Horizontal) Peak

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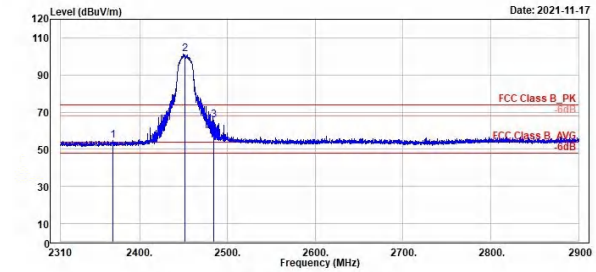

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2370.06	54.54	17.14	37.40	74.00	-19.46	100	49	Peak	Horizontal	
2 *	2452.00	101.08	63.10	37.98	74.00	27.08	100	49	Peak	Horizontal	
3	2484.88	65.86	27.71	38.15	74.00	-8.14	100	49	Peak	Horizontal	

Channel 9 (Vertical) Peak

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No. 458-18, Sec 2, Fenliao, , Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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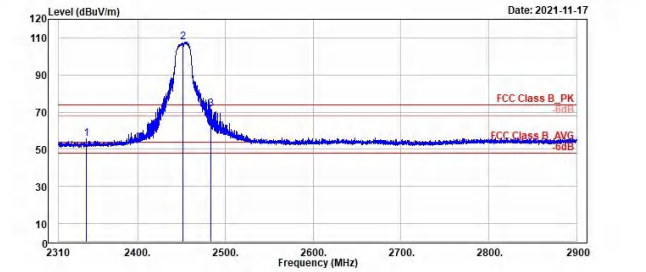
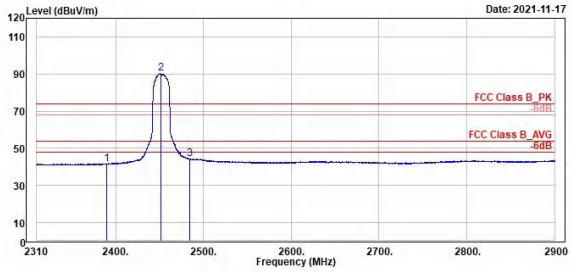


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2341.27	55.61	18.38	37.23	74.00	-18.39	100	0	Peak	Vertical	
2 *	2452.00	107.86	69.88	37.98	74.00	33.86	100	0	Peak	Vertical	
3 !	2483.70	71.43	33.29	38.14	74.00	-2.57	100	0	Peak	Vertical	

802.11n HT20

Channel 9 (Horizontal) 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



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.53	41.71	4.17	37.54	54.00	-12.29	100	49	Average	Horizontal	
2 *	2452.00	90.14	52.16	37.98	54.00	36.14	100	49	Average	Horizontal	
3	2484.17	44.47	6.32	38.15	54.00	-9.53	100	49	Average	Horizontal	

Channel 9 (Vertical) Average

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No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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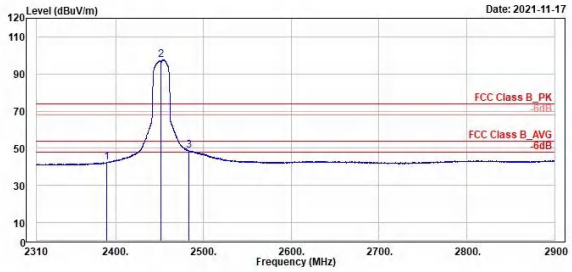

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.77	42.39	4.85	37.54	54.00	-11.61	100	0	Average	Vertical	
2 *	2452.00	97.61	59.63	37.98	54.00	43.61	100	0	Average	Vertical	
3 !	2483.46	48.74	10.60	38.14	54.00	-5.26	100	0	Average	Vertical	

802.11n HT20

Channel 10 (Horizontal) Peak

TUV Rheinland Taiwan Ltd.
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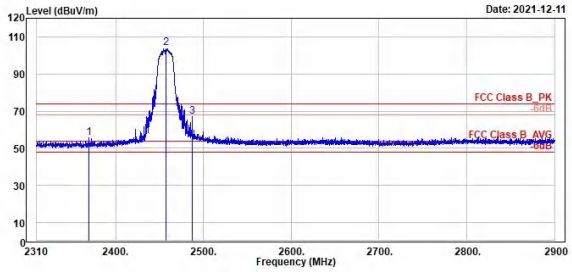
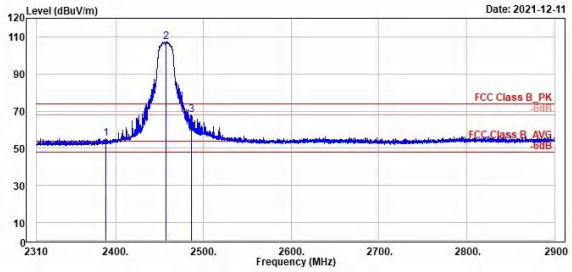


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2369.71	55.75	18.35	37.40	74.00	-18.25	100	306	Peak	Horizontal	
2 *	2457.00	103.97	65.96	38.01	74.00	29.97	100	306	Peak	Horizontal	
3	2487.35	67.10	28.93	38.17	74.00	-6.90	100	306	Peak	Horizontal	

Channel 10 (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

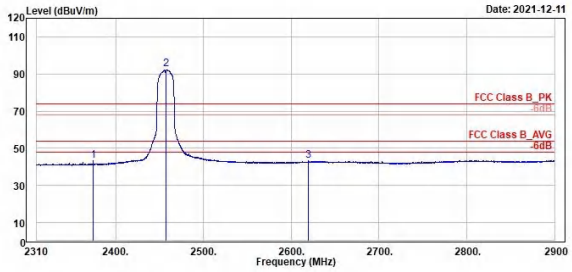


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.06	55.35	17.82	37.53	74.00	-18.65	148	266	Peak	Vertical	
2 *	2457.00	107.15	69.14	38.01	74.00	33.15	148	266	Peak	Vertical	
3 !	2486.41	68.15	29.99	38.16	74.00	-5.85	148	266	Peak	Vertical	

802.11n HT20

Channel 10 (Horizontal) 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 Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2374.78	43.34	5.91	37.43	54.00	-10.66	100	306	Average	Horizontal	
2 *	2457.00	92.84	54.83	38.01	54.00	38.84	100	306	Average	Horizontal	
3	2619.16	43.57	5.54	38.03	54.00	-10.43	100	306	Average	Horizontal	

Channel 10 (Vertical) Average

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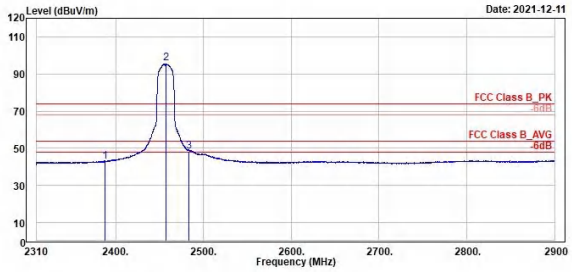

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2387.53	43.11	5.58	37.53	54.00	-10.89	148	266	Average	Vertical	
2 *	2457.00	95.98	57.97	38.01	54.00	41.98	148	266	Average	Vertical	
3 !	2483.58	48.33	10.19	38.14	54.00	-5.67	148	266	Average	Vertical	

802.11n HT20

Channel 11 (Horizontal) Peak

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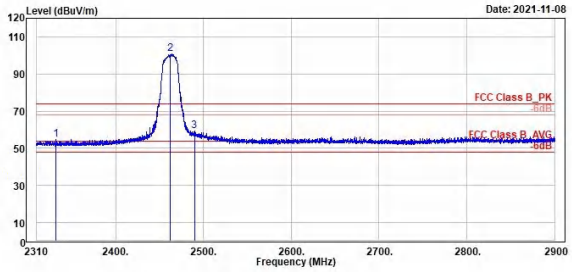

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2332.30	54.83	17.63	37.20	74.00	-19.17	150	286	Peak	Horizontal	
2 *	2462.00	100.83	62.79	38.04	74.00	26.83	150	286	Peak	Horizontal	
3	2489.71	59.51	21.33	38.18	74.00	-14.49	150	286	Peak	Horizontal	

Channel 11 (Vertical) Peak

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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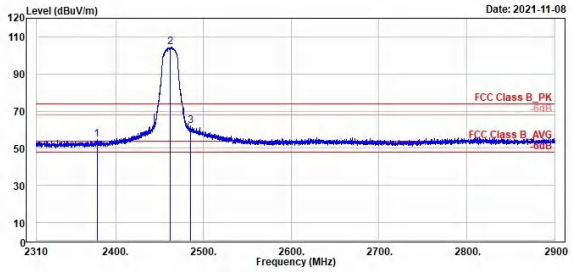

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2378.79	54.74	17.28	37.46	74.00	-19.26	150	274	Peak	Vertical	
2 *	2462.00	104.55	66.51	38.04	74.00	30.55	150	274	Peak	Vertical	
3	2485.23	61.86	23.71	38.15	74.00	-12.14	150	274	Peak	Vertical	

802.11n HT20

Channel 11 (Horizontal) Average

TUV Rheinland Taiwan Ltd.
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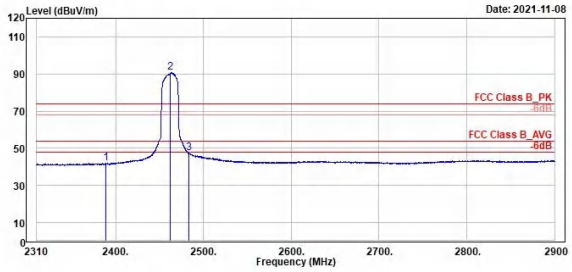

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.94	41.80	4.27	37.53	54.00	-12.20	150	286	Average	Horizontal	
2 *	2462.00	90.66	52.62	38.04	54.00	36.66	150	286	Average	Horizontal	
3	2483.58	47.35	9.21	38.14	54.00	-6.65	150	286	Average	Horizontal	

Channel 11 (Vertical) Average

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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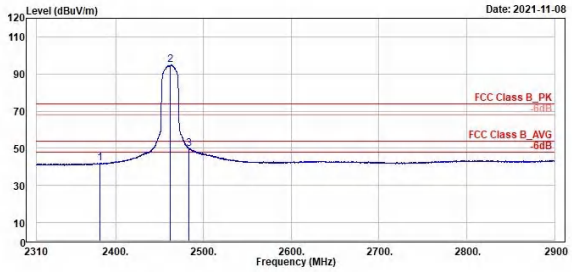

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2382.45	42.09	4.61	37.48	54.00	-11.91	150	274	Average	Vertical	
2 *	2462.00	94.82	56.78	38.04	54.00	40.82	150	274	Average	Vertical	
3 !	2483.46	49.82	11.68	38.14	54.00	-4.18	150	274	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.11n20

Channel 6 (Close) 9kHz~150kHz

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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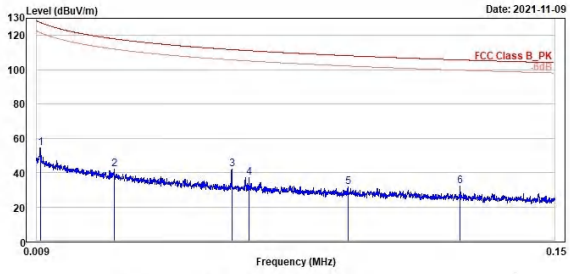

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	54.48	34.54	19.94	127.58	-73.10	100	246	QP	Close	
2	0.03	41.91	21.64	20.27	118.01	-76.10	100	35	QP	Close	
3	0.06	41.99	21.74	20.25	111.73	-69.74	100	232	QP	Close	
4	0.07	37.02	16.78	20.24	111.10	-74.08	100	359	QP	Close	
5	0.09	31.58	11.38	20.20	108.16	-76.58	100	170	QP	Close	
6	0.12	32.09	11.91	20.18	105.71	-73.62	100	186	QP	Close	

Channel 6 (Close) 150kHz~30MHz

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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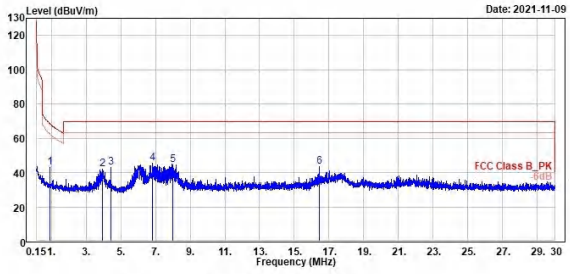

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.93	42.82	22.74	20.08	68.27	-25.45	100	171	QP	Close	
2	3.94	42.04	21.81	20.23	69.50	-27.46	100	235	QP	Close	
3	4.43	42.77	22.52	20.25	69.50	-26.73	100	121	QP	Close	
4	6.82	45.52	25.22	20.30	69.50	-23.98	100	13	QP	Close	
5	7.99	44.53	24.19	20.34	69.50	-24.97	100	13	QP	Close	
6	16.44	43.27	22.68	20.59	69.50	-26.23	100	29	QP	Close	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.11n20

Channel 6 (Open) 9kHz~150kHz

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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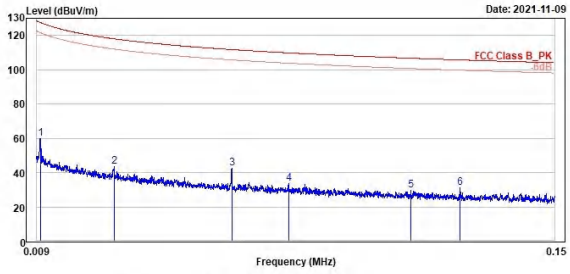

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	60.03	40.09	19.94	127.57	-67.54	100	151	QP	Open	
2	0.03	43.27	23.00	20.27	118.01	-74.74	100	349	QP	Open	
3	0.06	42.71	22.46	20.25	111.73	-69.02	100	13	QP	Open	
4	0.08	33.84	13.62	20.22	109.80	-75.96	100	97	QP	Open	
5	0.11	29.51	9.32	20.19	106.70	-77.19	100	201	QP	Open	
6	0.12	31.38	11.20	20.18	105.71	-74.33	100	343	QP	Open	

Channel 6 (Open) 150kHz~30MHz

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No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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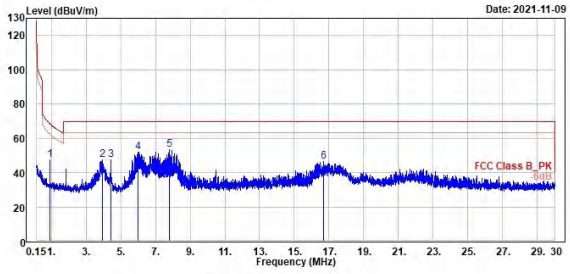

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.93	47.48	27.40	20.08	68.27	-20.79	100	107	QP	Open	
2	3.94	47.51	27.28	20.23	69.50	-21.99	100	113	QP	Open	
3	4.43	47.59	27.34	20.25	69.50	-21.91	100	302	QP	Open	
4	5.98	52.01	31.74	20.27	69.50	-17.49	100	310	QP	Open	
5	7.80	53.19	32.85	20.34	69.50	-16.31	100	62	QP	Open	
6	16.67	46.55	25.95	20.60	69.50	-22.95	100	270	QP	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

802.11n20

Channel 6 (Horizontal)

TUV Rheinland Taiwan Ltd.
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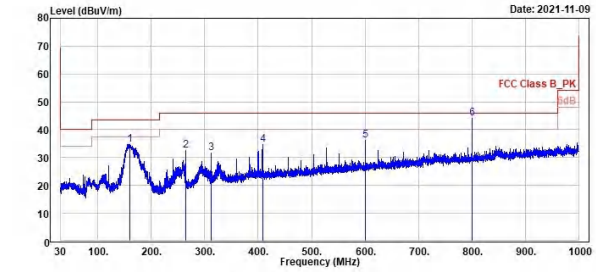

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	159.01	34.81	40.59	-5.78	43.50	-8.69	200	253	QP	Horizontal	
2	263.96	32.41	38.40	-5.99	46.00	-13.59	100	59	QP	Horizontal	
3	311.98	31.59	35.99	-4.40	46.00	-14.41	100	67	QP	Horizontal	
4	408.01	34.72	37.50	-2.78	46.00	-11.28	200	89	QP	Horizontal	
5	600.07	36.07	35.74	0.33	46.00	-9.93	200	339	QP	Horizontal	
6 !	800.08	44.04	40.89	3.15	46.00	-1.96	100	9	QP	Horizontal	

Channel 6 (Vertical)

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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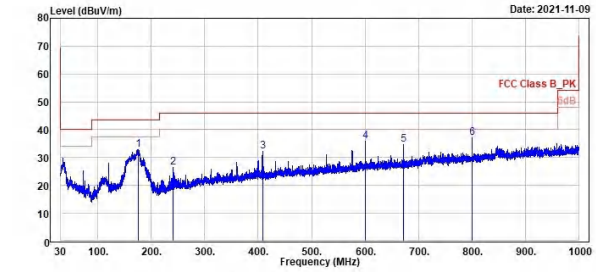

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	175.79	32.85	39.46	-6.61	43.50	-10.65	100	114	QP	Vertical	
2	240.01	26.58	33.24	-6.66	46.00	-19.42	200	201	QP	Vertical	
3	408.01	32.13	34.91	-2.78	46.00	-13.87	100	129	QP	Vertical	
4	600.07	35.98	35.65	0.33	46.00	-10.02	100	252	QP	Vertical	
5	672.04	34.82	33.59	1.23	46.00	-11.18	100	96	QP	Vertical	
6	800.08	37.12	33.97	3.15	46.00	-8.88	100	108	QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

Channel 1 (Horizontal)

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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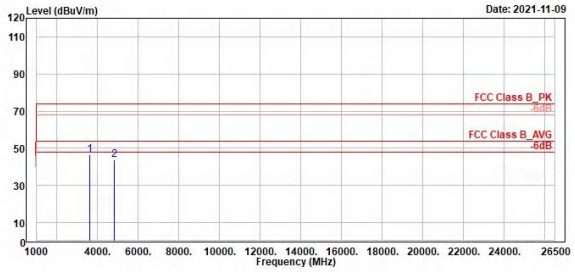

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	46.60	57.70	-11.10	74.00	-27.40	200	313	Peak	Horizontal	
2	4824.00	43.59	52.80	-9.21	74.00	-30.41	300	301	Peak	Horizontal	

Channel 1 (Vertical)

TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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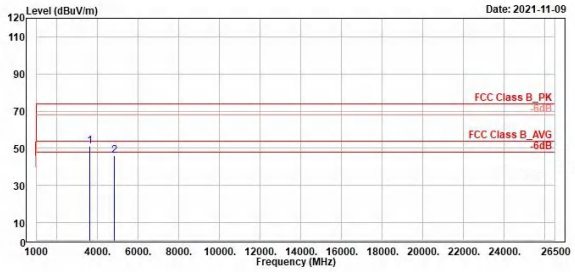

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	51.09	62.19	-11.10	74.00	-22.91	200	296	Peak	Vertical	
2	4824.00	46.08	55.29	-9.21	74.00	-27.92	200	298	Peak	Vertical	

802.11b

Channel 6 (Horizontal)

TUV Rheinland Taiwan Ltd.
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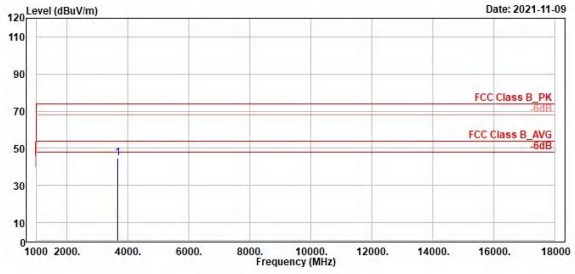
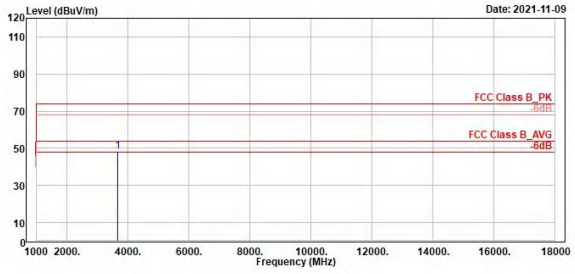
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	44.81	55.75	-10.94	74.00	-29.19	200	331	Peak	Horizontal	

Channel 6 (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

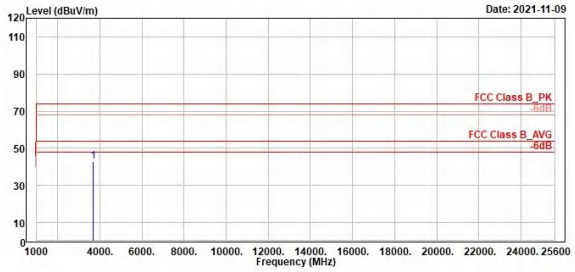


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	48.41	59.35	-10.94	74.00	-25.59	300	268	Peak	Vertical	

802.11b

Channel 11 (Horizontal)

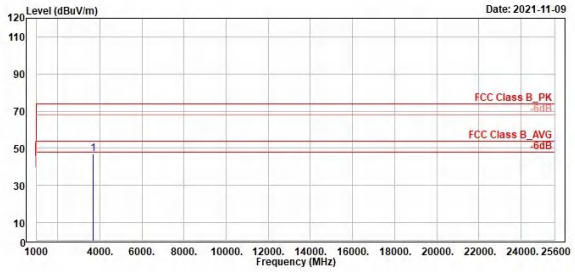
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	42.74	53.66	-10.92	74.00	-31.26	300	352	Peak	Horizontal	

Channel 11 (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

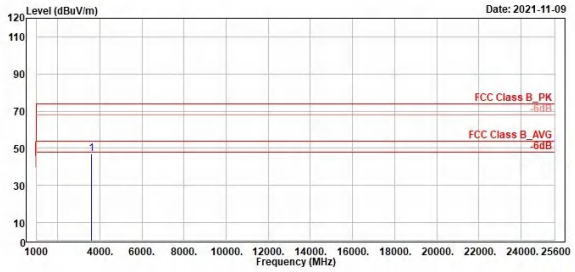


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	47.17	58.09	-10.92	74.00	-26.83	200	296	Peak	Vertical	

802.11g

Channel 1 (Horizontal)

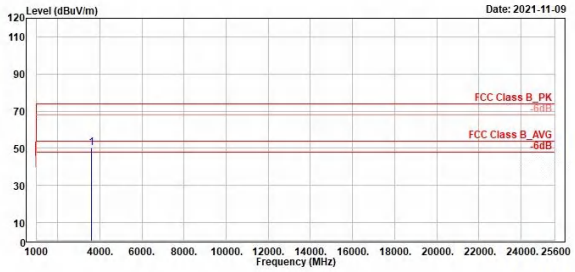
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	46.99	58.09	-11.10	74.00	-27.01	200	288	Peak	Horizontal	

Channel 1 (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

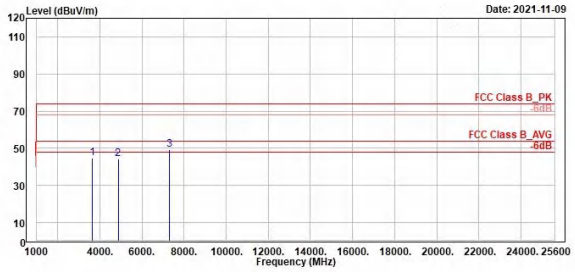


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	50.06	61.16	-11.10	74.00	-23.94	200	296	Peak	Vertical	

802.11g

Channel 6 (Horizontal)

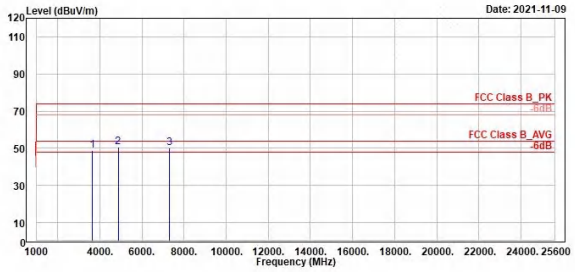
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	44.72	55.66	-10.94	74.00	-29.28	200	247	Peak	Horizontal	
2	4874.00	44.41	53.55	-9.14	74.00	-29.59	300	301	Peak	Horizontal	
3	7311.00	49.46	55.86	-6.40	74.00	-24.54	200	291	Peak	Horizontal	

Channel 6 (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

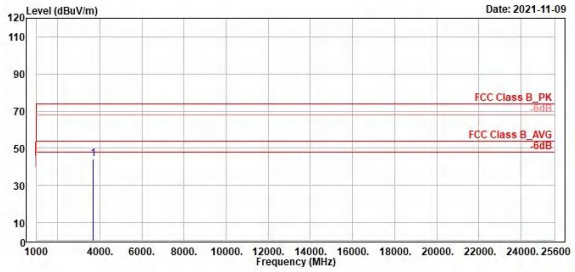


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	48.60	59.54	-10.94	74.00	-25.40	150	254	Peak	Vertical	
2	4874.00	50.64	59.78	-9.14	74.00	-23.36	150	263	Peak	Vertical	
3	7311.00	50.34	56.74	-6.40	74.00	-23.66	150	274	Peak	Vertical	

802.11g

Channel 11 (Horizontal)

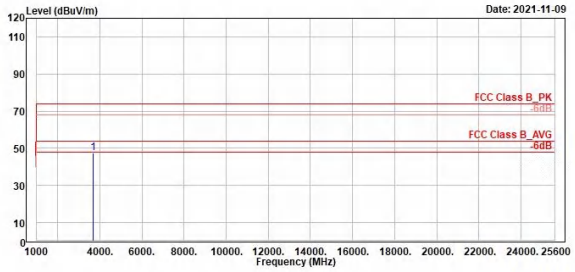
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	44.03	54.95	-10.92	74.00	-29.97	200	216	Peak	Horizontal	

Channel 11 (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

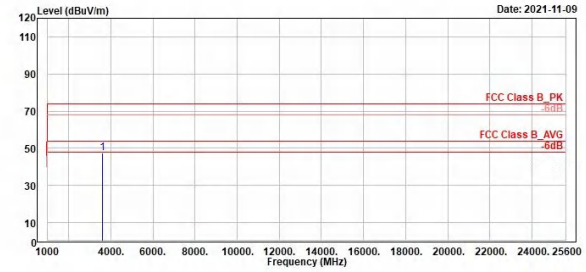


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	47.49	58.41	-10.92	74.00	-26.51	200	286	Peak	Vertical	

802.11n HT20

Channel 1 (Horizontal)

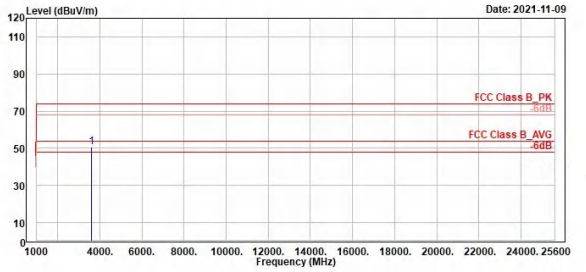
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	47.31	58.41	-11.10	74.00	-26.69	200	281	Peak	Horizontal	

Channel 1 (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

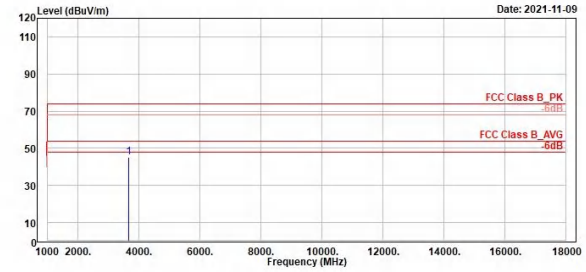


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3618.00	50.45	61.55	-11.10	74.00	-23.55	200	248	Peak	Vertical	

802.11n HT20

Channel 6 (Horizontal)

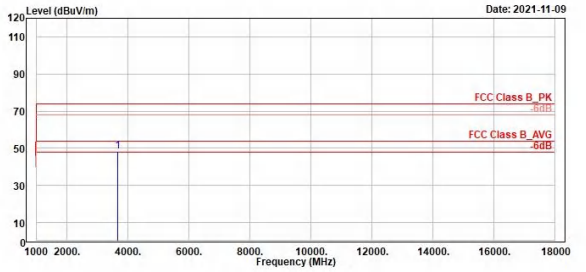
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	45.21	56.15	-10.94	74.00	-28.79	150	333	Peak	Horizontal	

Channel 6 (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

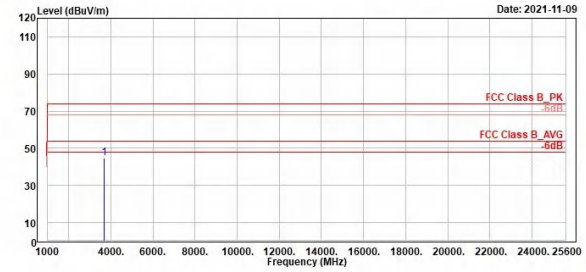


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3655.50	48.38	59.32	-10.94	74.00	-25.62	200	289	Peak	Vertical	

802.11n HT20

Channel 11 (Horizontal)

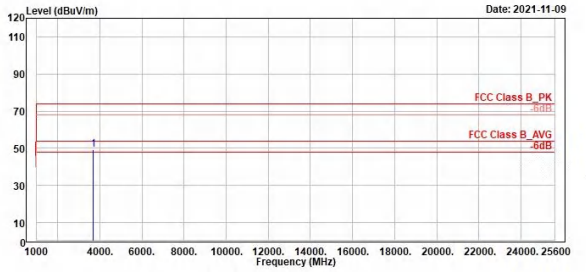
TUV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao. Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel:+886-2172-1000 Fax:+886-2172-1322



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	44.63	55.55	-10.92	74.00	-29.37	200	208	Peak	Horizontal	

Channel 11 (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

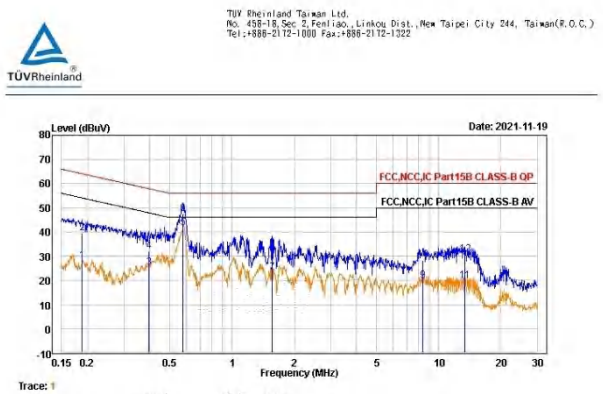


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	3693.00	49.27	60.19	-10.92	74.00	-24.73	200	289	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

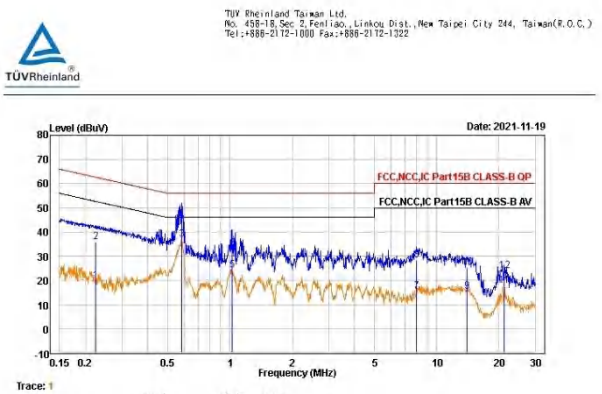
Channel 6 (Line)



Trace: 1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.19	28.02	18.41	9.61	54.10	-26.08	Average	line1	
2	0.19	39.62	30.01	9.61	64.10	-24.48	QP	line1	
3	0.40	25.31	15.69	9.62	47.93	-22.62	Average	line1	
4	0.40	31.95	22.33	9.62	57.93	-25.98	QP	line1	
5	0.58	41.75	32.13	9.62	46.00	-4.25	Average	line1	
6	0.58	47.32	37.70	9.62	56.00	-8.68	QP	line1	
7	1.56	23.36	13.72	9.64	46.00	-22.64	Average	line1	
8	1.56	33.29	23.65	9.64	56.00	-22.71	QP	line1	
9	8.37	19.62	9.91	9.71	50.00	-30.38	Average	line1	
10	8.37	28.42	18.71	9.71	60.00	-31.58	QP	line1	
11	13.38	19.64	9.91	9.73	50.00	-30.36	Average	line1	
12	13.38	30.60	20.87	9.73	60.00	-29.40	QP	line1	

Channel 6 (Neutral)



Trace: 1

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.22	19.81	10.22	9.59	52.65	-32.84	Average	neutral	
2	0.22	35.98	26.39	9.59	62.65	-26.67	QP	neutral	
3	0.58	36.71	27.11	9.60	46.00	-9.29	Average	neutral	
4	0.58	44.92	35.32	9.60	56.00	-11.08	QP	neutral	
5	1.02	24.26	14.66	9.60	46.00	-21.74	Average	neutral	
6	1.02	33.22	23.62	9.60	56.00	-22.78	QP	neutral	
7	8.01	15.16	5.44	9.72	50.00	-34.84	Average	neutral	
8	8.01	28.21	18.49	9.72	60.00	-31.79	QP	neutral	
9	13.99	15.46	5.69	9.77	50.00	-34.54	Average	neutral	
10	13.99	25.10	15.33	9.77	60.00	-34.90	QP	neutral	
11	21.16	17.60	7.80	9.80	50.00	-32.40	Average	neutral	
12	21.16	23.85	14.05	9.80	60.00	-36.15	QP	neutral	