



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-T3000
Product WiFi6 Router
Model T3000
Report No. R2201A0022-R1
Issue Date March 14, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Maximum output power	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d),15.205,15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: January 12, 2022~ March 11, 2022			
Date of Sample Received: January 6, 2022			
Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			



1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
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E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.2. General information

EUT Description	
Model	T3000
SN	324215830119
Hardware Version	T3000GHW1.0
Software Version	T3000GV0.0.0B01
Power Supply	AC adapter
Antenna Type	PCB Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	Antenna 1: 4.6dBi Antenna 2: 4.5dBi
additional beamforming gain	NA
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz
Modulation Type	802.11b: DSSS 802.11g/n(HT20/HT40): OFDM
Max. Conducted Power	Wi-Fi 2.4G: 18.07dBm
EUT Accessory	
Adapter 1	Manufacturer: BAIJUNDA Model: STC-A1215C55A-Z
Adapter 2	Manufacturer: RUIJING Model: STC-A1215C55A-Z
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. There are more than one Adapter, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 2,) will be recorded in this report.	



3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2021) Radio Frequency Devices

ANSI C63.10 (2013)

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate		
	Antenna 1	Antenna 2	CDD
802.11b	1 Mbps	1 Mbps	1 Mbps
802.11g	6 Mbps	6 Mbps	6 Mbps
802.11n HT20	MCS0	MCS0	MCS8
802.11n HT40	MCS0	MCS0	MCS8
802.11ax HE20	MCS0	MCS0	MCS8
802.11ax HE40	MCS0	MCS0	MCS0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	CDD
Maximum conducted output power	O	O	O
6dB Bandwidth	--	--	O
Band Edge	--	--	O
Power Spectral Density	O	O	O
Spurious RF Conducted Emissions	--	--	O
Unwanted Emissions	--	--	O
Conducted Emission	--	--	802.11ax HE40
Note: "O": test all bands			

According to RF Output power results in chapter 5.1, MIMO was selected as the worst antenna.

5. Test Case Results

5.1. Maximum output power

Ambient condition

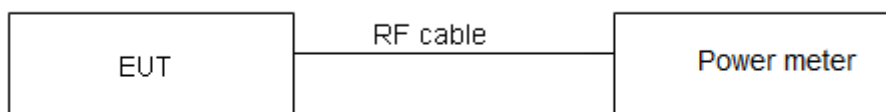
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	$\leq 1W$ (30dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

Test Results

SISO Antenna Power Index								
Antenna	Channel	802.11b	802.11g	802.11n HT20	802.11ax HE20	Channel	802.11n HT40	802.11ax HE40
Antenna 1 & 2	CH1	14	14	15	14	CH3	13	14
	CH6	14	14	15	14	CH6	13	14
	CH11	14	14	15	14	CH9	13	14
CDD Antenna Power Index								
Antenna	Channel	802.11b	802.11g	802.11n HT20	802.11ax HE20	Channel	802.11n HT40	802.11ax HE40
Antenna 1 & 2	CH1	14	14	15	14	CH3	13	14
	CH6	14	14	15	14	CH6	13	14
	CH11	14	14	15	14	CH9	13	14

Test Mode	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11b	0.66	1.18	0.56	2.52
802.11g	1.97	2.07	0.95	0.22
802.11n HT20	5.42	5.93	0.91	0.39
802.11n HT40	5.40	6.00	0.90	0.46
802.11ax HE20	5.42	5.88	0.92	0.35
802.11ax HE40	5.42	5.90	0.92	0.35
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.				

SISO Antenna 1

Test Mode	Carrier frequency (MHz))/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH 1	11.80	14.32	30	PASS
	2437/CH 6	11.16	13.68	30	PASS
	2462/CH11	11.67	14.19	30	PASS
802.11g	2412/CH 1	13.66	13.88	30	PASS
	2437/CH 6	13.01	13.23	30	PASS
	2462/CH11	13.04	13.26	30	PASS
802.11n HT20	2412/CH 1	13.76	14.15	30	PASS
	2437/CH 6	13.96	14.35	30	PASS
	2462/CH11	14.07	14.46	30	PASS
802.11n HT40	2422/CH3	11.66	12.12	30	PASS
	2437/CH6	11.03	11.49	30	PASS
	2452/CH9	11.23	11.69	30	PASS
802.11ax HE20	2412/CH 1	12.50	12.85	30	PASS
	2437/CH 6	12.04	12.39	30	PASS
	2462/CH11	12.01	12.36	30	PASS
802.11ax HE40	2422/CH3	12.52	12.87	30	PASS
	2437/CH6	12.02	12.37	30	PASS
	2452/CH9	12.31	12.66	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

SISO Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH 1	11.30	13.82	30	PASS
	2437/CH 6	11.32	13.84	30	PASS
	2462/CH11	10.80	13.32	30	PASS
802.11g	2412/CH 1	13.73	13.95	30	PASS
	2437/CH 6	13.20	13.42	30	PASS
	2462/CH11	12.80	13.02	30	PASS
802.11n HT20	2412/CH 1	14.06	14.45	30	PASS
	2437/CH 6	13.77	14.16	30	PASS
	2462/CH11	13.69	14.08	30	PASS
802.11n HT40	2422/CH3	12.41	12.87	30	PASS
	2437/CH6	12.12	12.58	30	PASS
	2452/CH9	12.00	12.46	30	PASS
802.11ax HE20	2412/CH 1	13.30	13.65	30	PASS
	2437/CH 6	13.04	13.39	30	PASS
	2462/CH11	12.88	13.23	30	PASS
802.11ax HE40	2422/CH3	13.12	13.47	30	PASS
	2437/CH6	13.08	13.43	30	PASS
	2452/CH9	12.93	13.28	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

**CDD Antenna**

Test Mode	Carrier frequency (MHz) / Channel	CDD Antenna 1		CDD Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11b	2412/CH 1	11.84	14.36	11.68	14.20	17.29	30	PASS
	2437/CH 6	11.35	13.87	11.89	14.41	17.16	30	PASS
	2462/CH11	10.72	13.24	11.67	14.19	16.75	30	PASS
802.11g	2412/CH 1	13.45	13.67	13.75	13.97	16.83	30	PASS
	2437/CH 6	13.70	13.92	14.23	14.45	17.20	30	PASS
	2462/CH11	13.52	12.28	13.95	14.17	16.33	30	PASS
802.11n HT20	2412/CH 1	13.77	14.16	14.57	14.96	17.59	30	PASS
	2437/CH 6	13.84	14.23	15.36	15.75	18.07	30	PASS
	2462/CH11	14.14	14.53	14.51	14.90	17.73	30	PASS
802.11n HT40	2422/CH3	11.91	12.37	13.06	13.52	15.99	30	PASS
	2437/CH6	12.35	12.81	13.27	13.73	16.30	30	PASS
	2452/CH9	12.06	12.52	12.73	13.19	15.88	30	PASS
802.11ax HE20	2412/CH 1	13.18	13.53	13.44	13.79	16.68	30	PASS
	2437/CH 6	13.19	13.54	14.24	14.59	17.11	30	PASS
	2462/CH11	12.61	12.96	13.85	14.20	16.64	30	PASS
802.11ax HE40	2422/CH3	12.80	13.15	13.74	14.09	16.66	30	PASS
	2437/CH6	13.11	13.46	14.19	14.54	17.04	30	PASS
	2452/CH9	12.59	12.94	13.43	13.78	16.39	30	PASS

Note: 1. Average Power with duty factor = Average Power Measured + Duty cycle correction factor

2. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),
The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$.

3. The manufacturer declared the transmitter output signals is CDD mode And Nss=1. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

So directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.6 + 0 = 4.6\text{dBi} < 6\text{dBi}$. So the power limit is 30dBm

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient condition

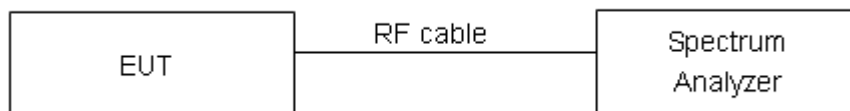
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.
Detector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

**Test Results:**

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	13.09	7.61	500	PASS
	2437	13.06	7.10	500	PASS
	2462	13.10	9.07	500	PASS
802.11g	2412	16.28	13.77	500	PASS
	2437	16.28	15.62	500	PASS
	2462	16.29	13.80	500	PASS
802.11n HT20	2412	17.50	16.94	500	PASS
	2437	17.51	12.47	500	PASS
	2462	17.51	15.27	500	PASS
802.11n HT40	2422	35.80	34.45	500	PASS
	2437	35.85	34.42	500	PASS
	2452	35.89	34.42	500	PASS
802.11ax HE20	2412	18.83	16.90	500	PASS
	2437	18.80	17.50	500	PASS
	2462	18.83	16.04	500	PASS
802.11ax HE40	2422	37.45	33.19	500	PASS
	2437	37.38	35.27	500	PASS
	2452	37.51	36.76	500	PASS

99%bandwidth

802.11b, Carrier frequency (MHz): 2412



802.11g, Carrier frequency (MHz): 2412



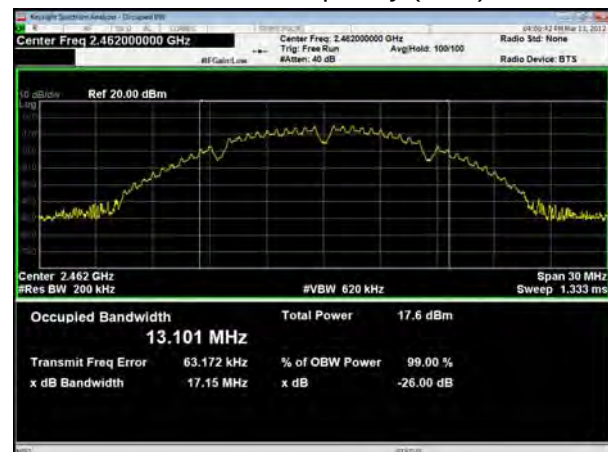
802.11b, Carrier frequency (MHz): 2437



802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz):2462



802.11g, Carrier frequency (MHz):2462



802.11n(HT20), Carrier frequency (MHz): 2412



802.11n(HT40), Carrier frequency (MHz): 2422



802.11n(HT20), Carrier frequency (MHz): 2437



802.11n(HT40), Carrier frequency (MHz): 2437



802.11n(HT20), Carrier frequency (MHz): 2462



802.11n(HT40), Carrier frequency (MHz): 2452



802.11ax(HE20), Carrier frequency (MHz): 2412



802.11ax(HE40), Carrier frequency (MHz): 2422



802.11ax(HE20), Carrier frequency (MHz): 2437



802.11ax(HE40), Carrier frequency (MHz): 2437



802.11ax(HE20), Carrier frequency (MHz): 2462



802.11ax(HE40), Carrier frequency (MHz): 2452





6 dB bandwidth

802.11b, Carrier frequency (MHz): 2412



802.11g, Carrier frequency (MHz): 2412



802.11b, Carrier frequency (MHz): 2437



802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462



802.11g, Carrier frequency (MHz): 2462



802.11n(HT20), Carrier frequency (MHz): 2412



802.11n(HT40), Carrier frequency (MHz): 2422



802.11n(HT20), Carrier frequency (MHz): 2437



802.11n(HT40), Carrier frequency (MHz): 2437



802.11n(HT20), Carrier frequency (MHz): 2462



802.11n(HT40), Carrier frequency (MHz): 2452



802.11ax(HE20), Carrier frequency (MHz): 2412



802.11ax(HE40), Carrier frequency (MHz): 2422



802.11ax(HE20), Carrier frequency (MHz): 2437



802.11ax(HE40), Carrier frequency (MHz): 2437



802.11ax(HE20), Carrier frequency (MHz): 2462



802.11ax(HE40), Carrier frequency (MHz): 2452



5.3. Band Edge

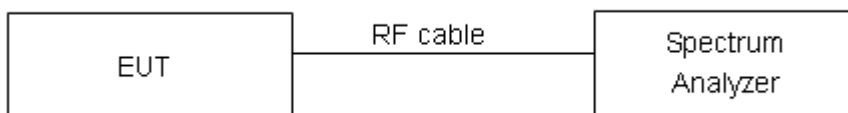
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB



Test Results: PASS

802.11b, Channel No.: 1



802.11b, Channel No.: 11





802.11g, Channel No.: 1



802.11g, Channel No.: 11





802.11n(HT20), Channel No. 1

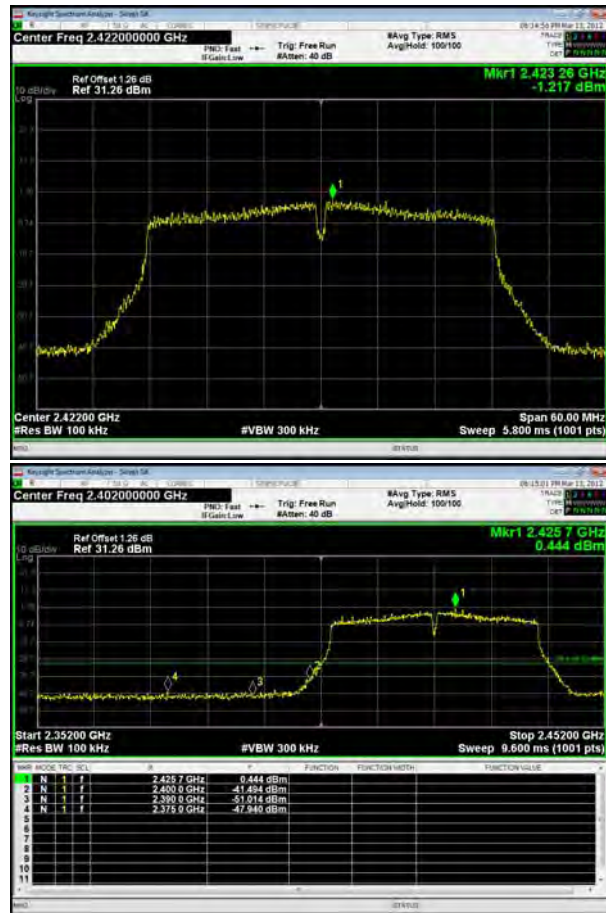


802.11n(HT20), Channel No. 11





802.11n(HT40), Channel No. 3

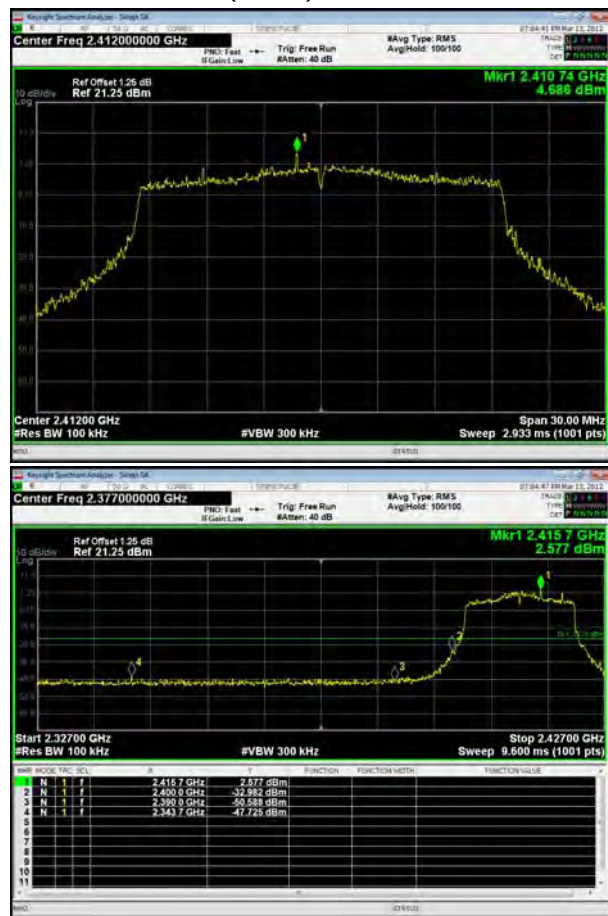


802.11n(HT40), Channel No. 9





802.11ax(HE20), Channel No. 1

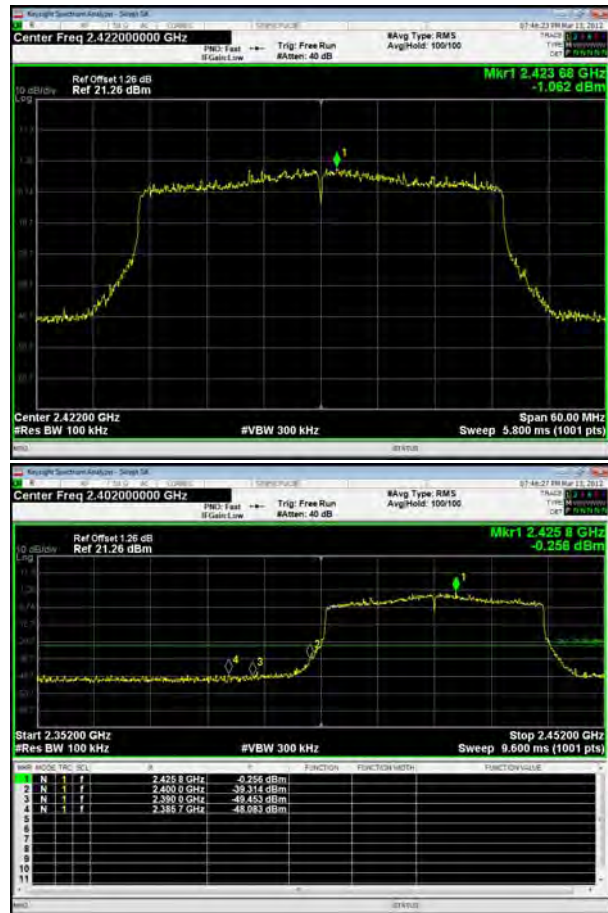


802.11ax(HE20), Channel No. 11





802.11ax(HE40), Channel No. 3



802.11ax(HE40), Channel No. 9



5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss.

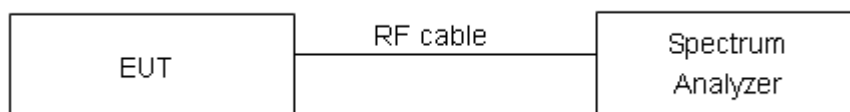
The EUT is max power transmission with proper modulation.

Method AVGPS-2 was used for this test.

- Measure the duty cycle (D) of the transmitter output signal as described in 11.6
- Set instrument center frequency to DTS channel center frequency
- Set span to at least 1.5 times the OBW
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{Kh}$
- Set VBW $\geq [3 \times \text{RBW}]$
- Detector= power averaging (rms) or sample detector (when rms not available)
- Ensure that the number of measurement points in the sweep $2[2 \times \text{span}/\text{RBW}]$
- Sweep time =auto couple
- Do not use sweep triggering; allow sweep to "free run"
- Employ trace averaging (rms) mode over a minimum of 100 traces
- Use the peak marker function to determine the maximum amplitude level
- Add $[10 \log(1/ D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time
- If measured value exceeds requirement specified by regulatory agency then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density



conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

Limits	$\leq 8 \text{ dBm} / 3\text{kHz}$
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

**Test Results:****SISO Antenna 1**

Test Mode	Channel Number	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-9.85	-17.33	8	PASS
	6	-10.23	-17.71	8	PASS
	11	-10.02	-17.50	8	PASS
802.11g	1	-9.09	-18.87	8	PASS
	6	-9.68	-19.46	8	PASS
	11	-9.94	-19.72	8	PASS
802.11n HT20	1	-9.34	-18.95	8	PASS
	6	-9.19	-18.80	8	PASS
	11	-9.28	-18.89	8	PASS
802.11n HT40	3	-14.58	-24.12	8	PASS
	6	-14.98	-24.52	8	PASS
	9	-14.53	-24.07	8	PASS
802.11ax HE20	1	-11.56	-21.21	8	PASS
	6	-12.38	-22.03	8	PASS
	11	-12.49	-22.14	8	PASS
802.11ax HE40	3	-14.37	-24.02	8	PASS
	6	-15.21	-24.86	8	PASS
	9	-14.75	-24.40	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor+10*LOG10(3/30)					

**SISO Antenna 2**

Test Mode	Channel Number	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-9.75	-17.23	8	PASS
	6	-10.52	-18.00	8	PASS
	11	-10.77	-18.25	8	PASS
802.11g	1	-8.61	-18.39	8	PASS
	6	-9.23	-19.01	8	PASS
	11	-9.71	-19.49	8	PASS
802.11n HT20	1	-8.82	-18.43	8	PASS
	6	-9.01	-18.62	8	PASS
	11	-8.97	-18.58	8	PASS
802.11n HT40	3	-13.34	-22.88	8	PASS
	6	-13.52	-23.06	8	PASS
	9	-14.07	-23.61	8	PASS
802.11ax HE 20	1	-10.67	-20.32	8	PASS
	6	-11.24	-20.89	8	PASS
	11	-11.65	-21.30	8	PASS
802.11ax HE 40	3	-13.83	-23.48	8	PASS
	6	-13.91	-23.56	8	PASS
	9	-14.21	-23.86	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor+10*LOG10(3/30)					

**CDD Antenna**

Test Mode	Channel Number	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclusion
		CDD Antenna 1		CDD Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	1	-9.89	-17.37	-8.98	-16.46	-13.88	6.39	PASS
	6	-10.12	-17.60	-8.44	-15.92	-13.67	6.39	PASS
	11	-10.20	-17.68	-9.52	-17.00	-14.31	6.39	PASS
802.11g	1	-8.63	-18.41	-8.56	-18.34	-15.37	6.39	PASS
	6	-8.85	-18.63	-8.09	-17.87	-15.23	6.39	PASS
	11	-8.76	-18.54	-8.64	-18.42	-15.47	6.39	PASS
802.11n HT20	1	-9.06	-18.67	-8.52	-18.13	-15.38	6.39	PASS
	6	-9.04	-18.65	-7.65	-17.26	-14.89	6.39	PASS
	11	-9.01	-18.62	-8.42	-18.03	-15.30	6.39	PASS
802.11n HT40	3	-14.00	-23.54	-12.63	-22.17	-19.79	6.39	PASS
	6	-12.68	-22.22	-11.82	-21.36	-18.76	6.39	PASS
	9	-13.88	-23.42	-12.58	-22.12	-19.71	6.39	PASS
802.11ax HE20	1	-11.22	-20.87	-10.72	-20.37	-17.60	6.39	PASS
	6	-10.87	-20.52	-9.51	-19.16	-16.77	6.39	PASS
	11	-11.46	-21.11	-10.43	-20.08	-17.55	6.39	PASS
802.11ax HE40	3	-14.38	-24.03	-13.17	-22.82	-20.37	6.39	PASS
	6	-13.76	-23.41	-12.84	-22.49	-19.92	6.39	PASS
	9	-14.32	-23.97	-13.24	-22.89	-20.39	6.39	PASS

Note: 1. Power Spectral Density = Read Value + Duty cycle correction factor + $10 \cdot \log_{10}(3/30)$

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a), the power spectral density = $10 \log_{10}(10^{(\text{PSD antenna1 in dBm}/10)} + 10^{(\text{PSD antenna2 in dBm}/10)})$

3. The manufacturer declared the transmitter output signals is CDD mode And Nss=1. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(ii): If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Directional gain = G_{ANT} + Array Gain. For PSD measurements on all devices, Array

Gain = $10 \log(N_{\text{ant}}/N_{\text{ss}})$ dB, so directional gain = G_{ANT} + Array Gain = $4.6 + 10 \log(2/1) = 7.61 > 6$ dBi.

So the PSD limit is $8 + 6 - \text{MAX}(6, B7)$ dBm = 6.39 dBm

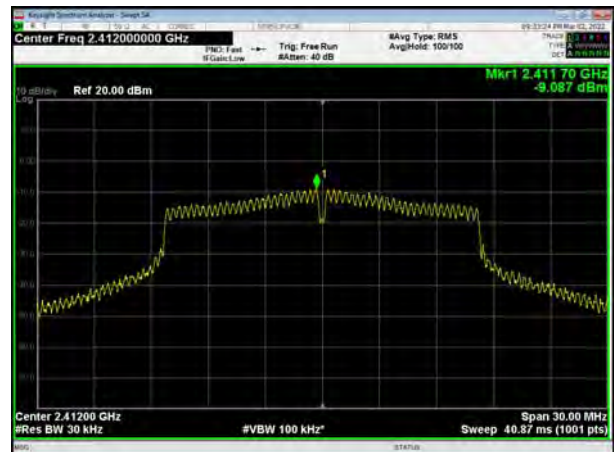


SISO Antenna 1

802.11b, Channel No.: 1



802.11g, Channel No.: 1



802.11b, Channel No.: 6



802.11g, Channel No.: 6



802.11b, Channel No.: 11



802.11g, Channel No.: 11

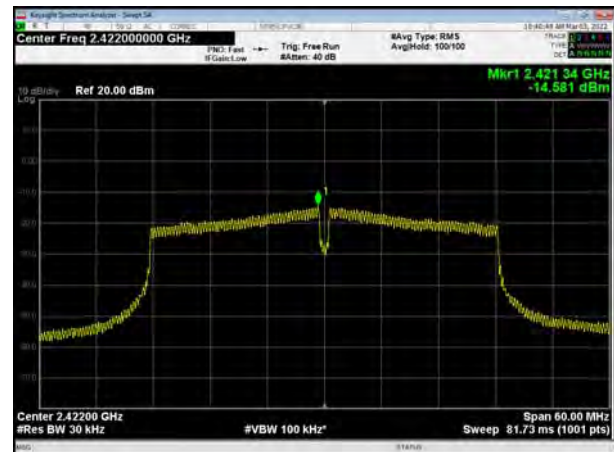




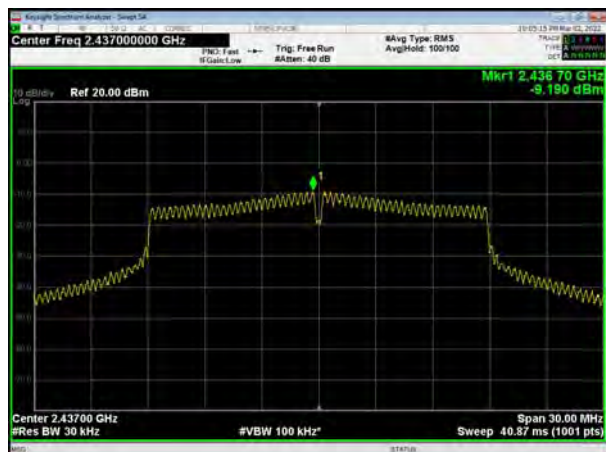
802.11n(HT20), Channel No. 1



802.11n(HT40), Channel No. 3



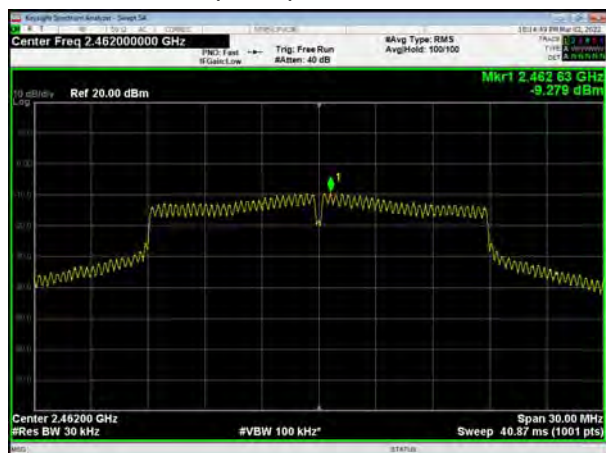
802.11n(HT20), Channel No. 6



802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9





802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



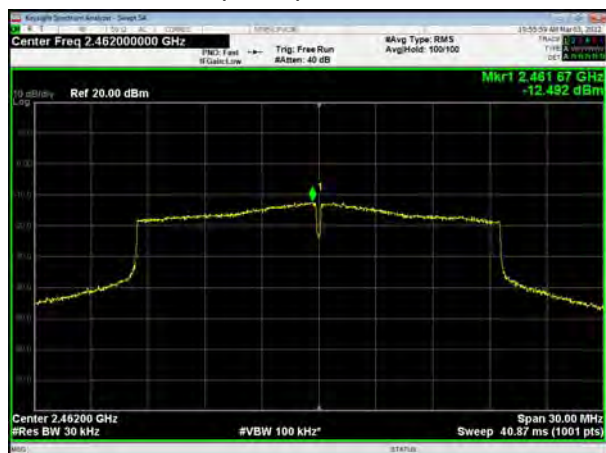
802.11ax(HE20), Channel No. 6



802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9





SISO Antenna 2

802.11b, Channel No.: 1



802.11g, Channel No.: 1



802.11b, Channel No.: 6



802.11g, Channel No.: 6



802.11b, Channel No.: 11



802.11g, Channel No.: 11





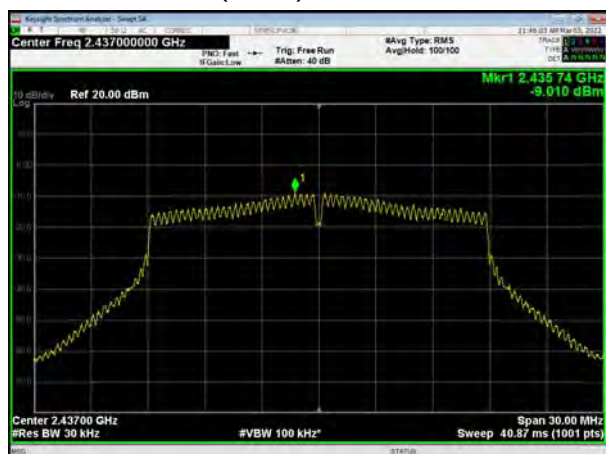
802.11n(HT20), Channel No. 1



802.11n(HT40), Channel No. 3



802.11n(HT20), Channel No. 6



802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9





802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



802.11ax(HE20), Channel No. 6



802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9





CDD Antenna 1

802.11b, Channel No.: 1



802.11g, Channel No.: 1



802.11b, Channel No.: 6



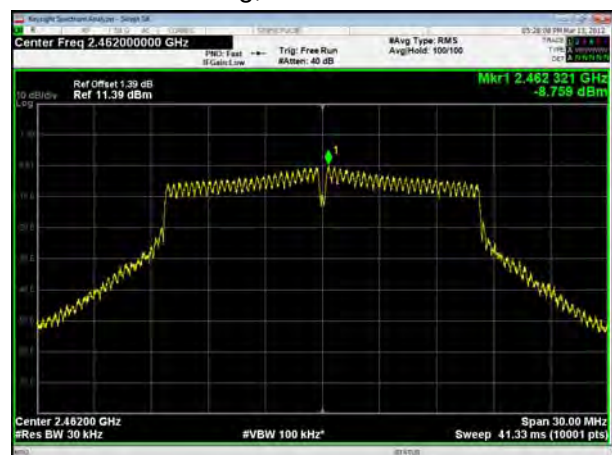
802.11g, Channel No.: 6



802.11b, Channel No.: 11



802.11g, Channel No.: 11

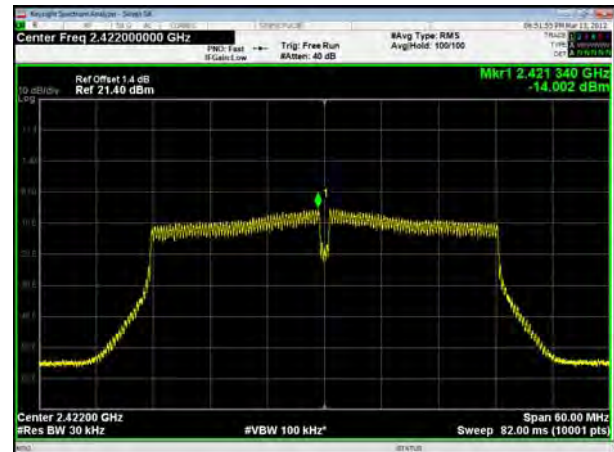




802.11n(HT20), Channel No. 1



802.11n(HT40), Channel No. 3



802.11n(HT20), Channel No. 6



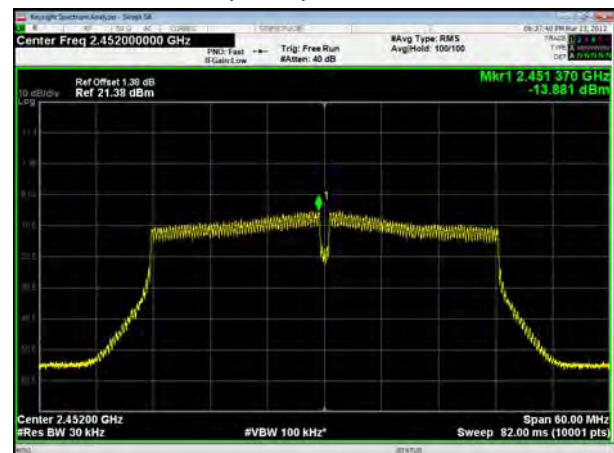
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9



802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



802.11ax(HE20), Channel No. 6



802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9





CDD Antenna 2

802.11b, Channel No.: 1



802.11g, Channel No.: 1



802.11b, Channel No.: 6



802.11g, Channel No.: 6



802.11b, Channel No.: 11

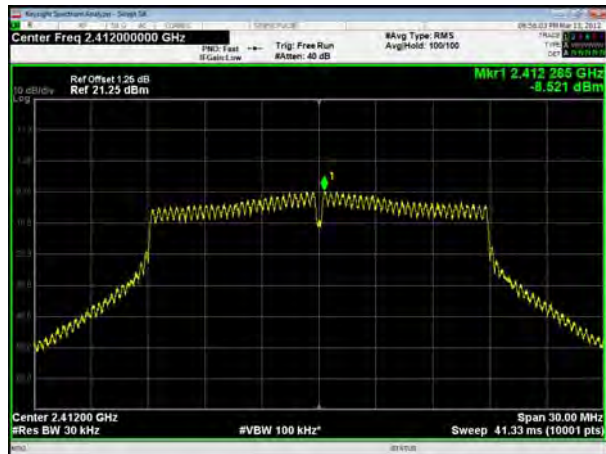


802.11g, Channel No.: 11

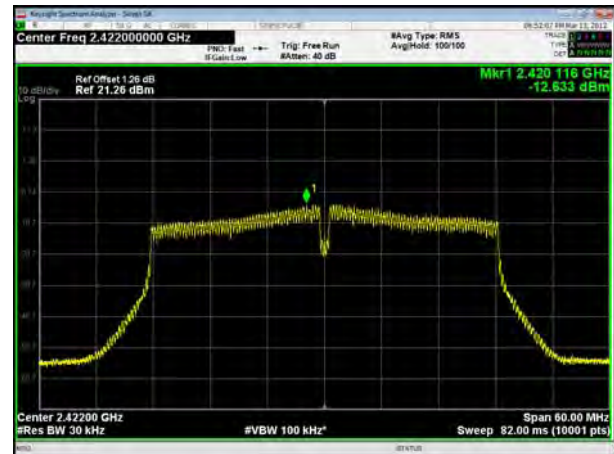




802.11n(HT20), Channel No. 1



802.11n(HT40), Channel No. 3



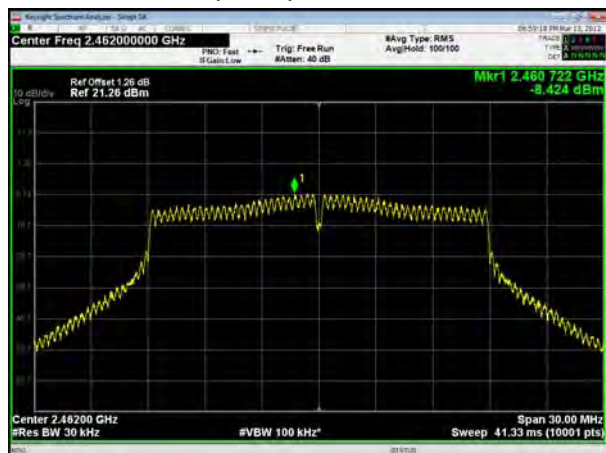
802.11n(HT20), Channel No. 6



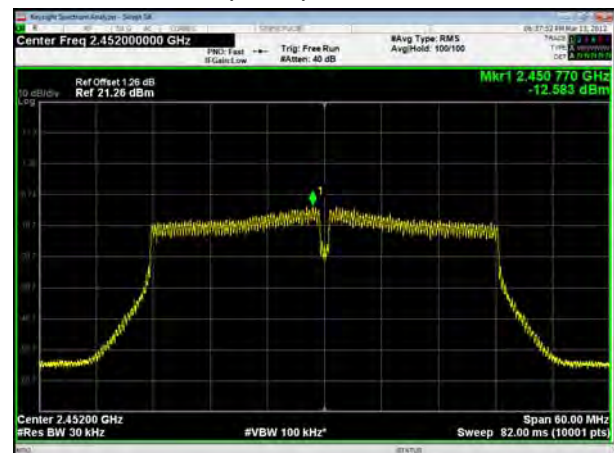
802.11n(HT40), Channel No. 6



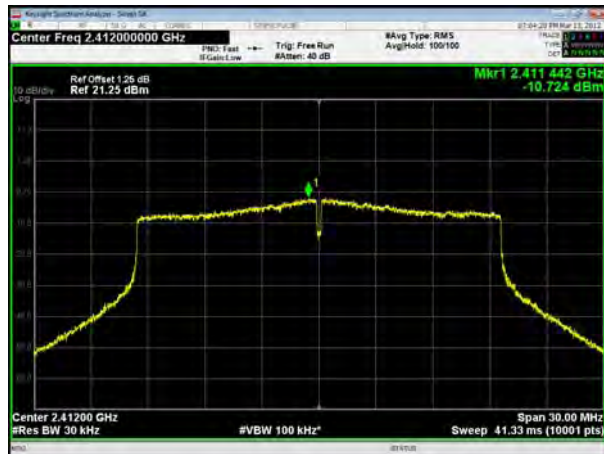
802.11n(HT20), Channel No. 11



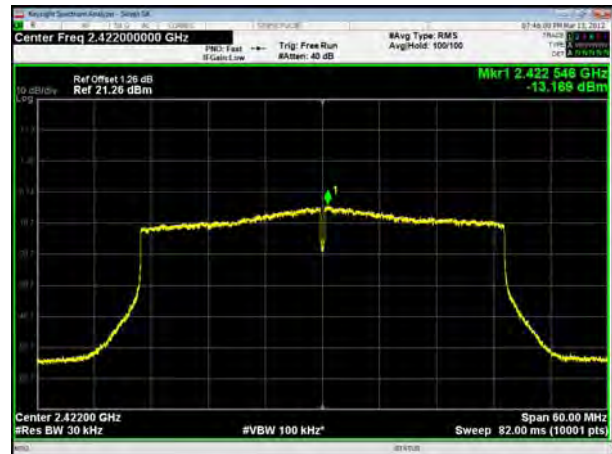
802.11n(HT40), Channel No. 9



802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



802.11ax(HE20), Channel No. 6



802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9



5.5. Spurious RF Conducted Emissions

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. "

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	5.97	-24.03
	2437	4.92	-25.08
	2462	4.32	-25.68
802.11g	2412	2.42	-27.58
	2437	1.92	-28.08
	2462	4.67	-25.33
802.11n HT20	2412	2.44	-24.21
	2437	5.79	-26.31
	2462	3.69	-32.77
802.11n HT40	2422	-2.77	-33.38
	2437	-3.38	-31.51
	2452	-1.51	-29.28



802.11ax HE20	2412	0.72	-29.28
	2437	1.10	-28.90
	2462	2.89	-27.11
802.11ax HE40	2422	0.30	-29.70
	2437	-0.33	-30.33
	2452	-1.44	-31.44

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB



Test Results:

802.11b, Channel No.: 1

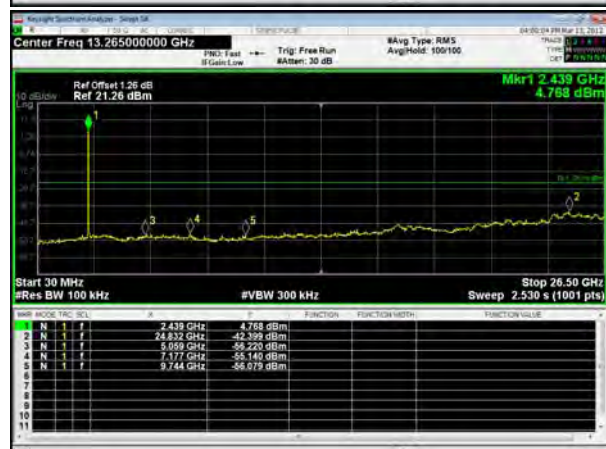


802.11g, Channel No.: 1

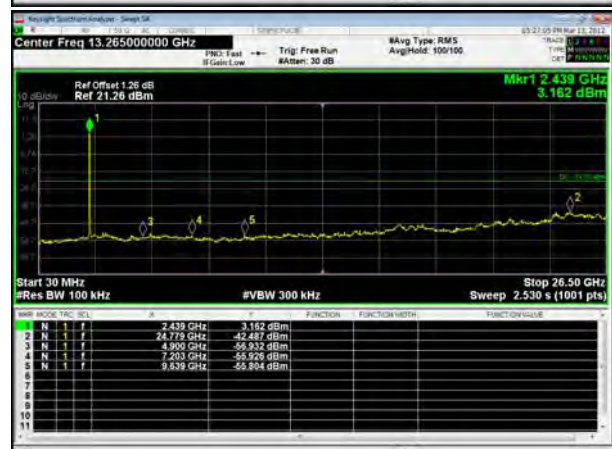




802.11b, Channel No.: 6



802.11g, Channel No.: 6





802.11b, Channel No.: 11

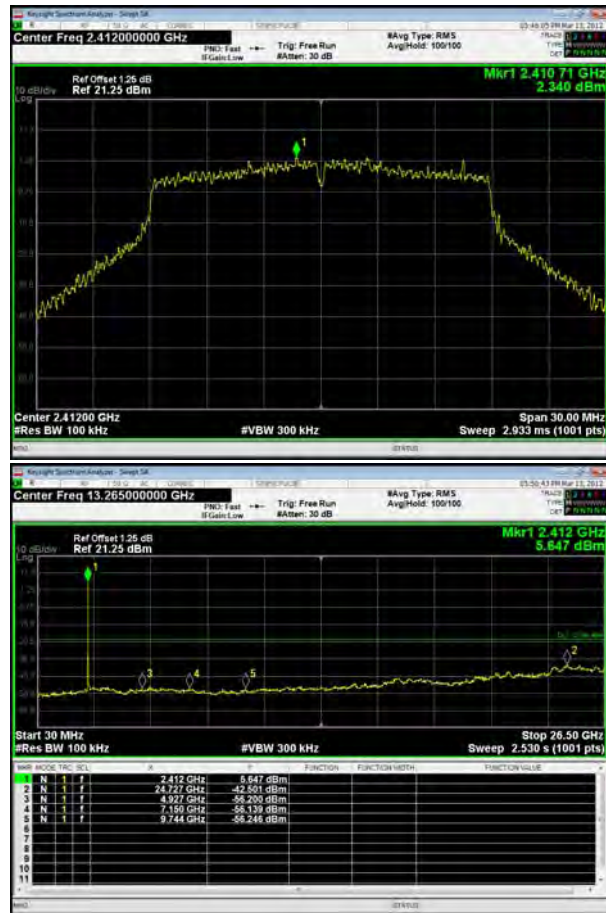


802.11g, Channel No.: 11





802.11n(HT20), Channel No. 1

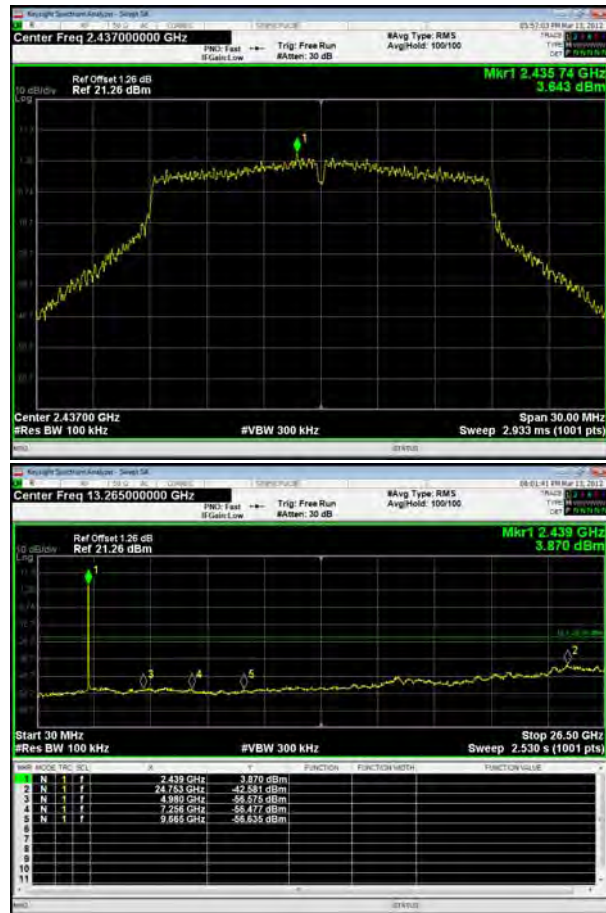


802.11n(HT40), Channel No. 3





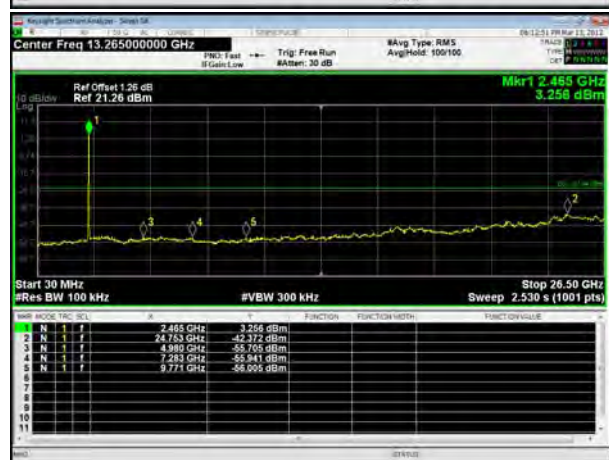
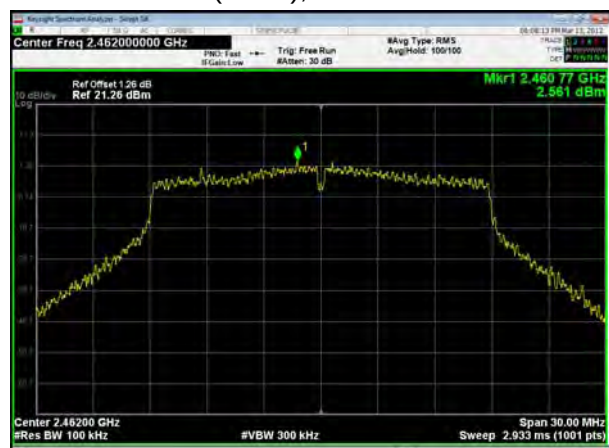
802.11n(HT20), Channel No. 6



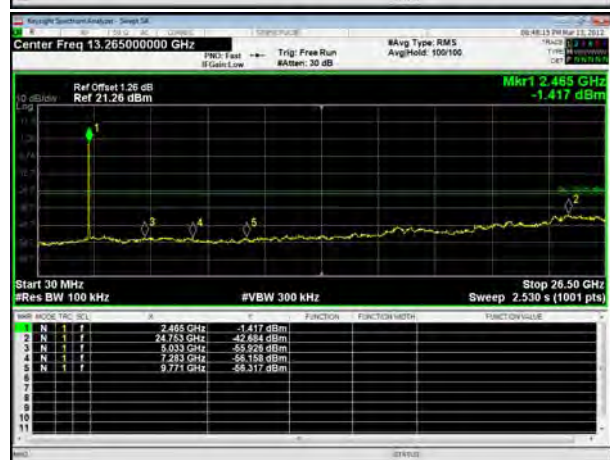
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9





802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3





802.11ax(HE20), Channel No. 6

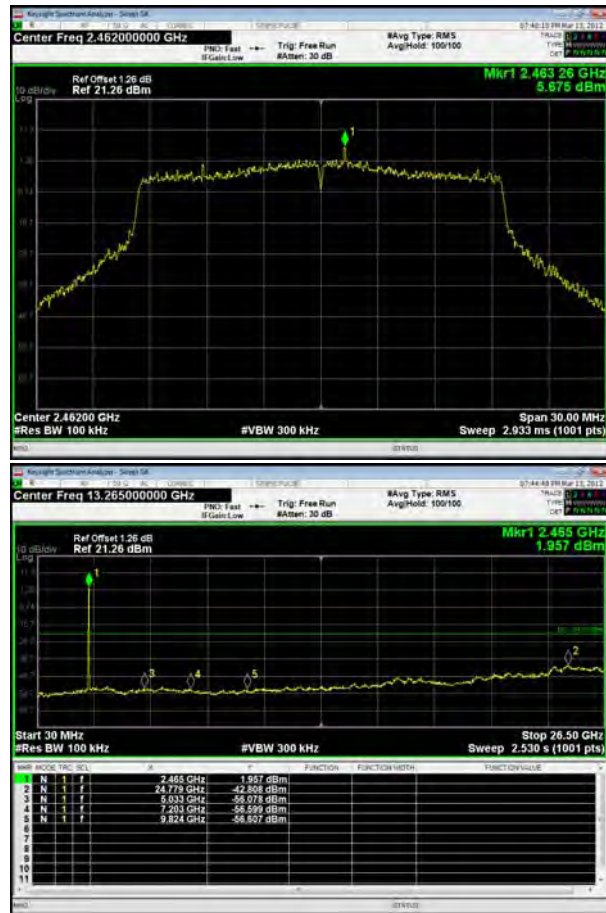


802.11ax(HE40), Channel No. 6

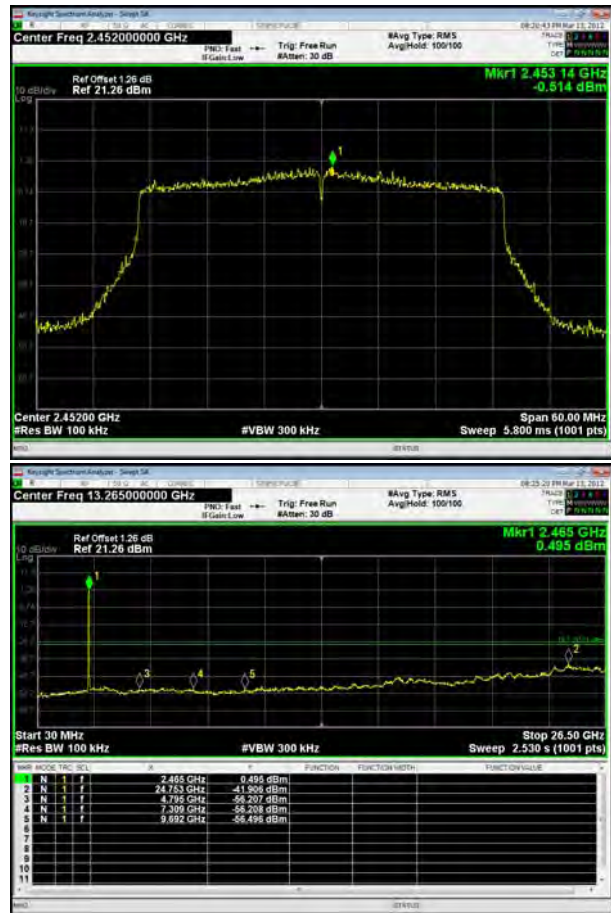




802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9



5.6. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage



averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

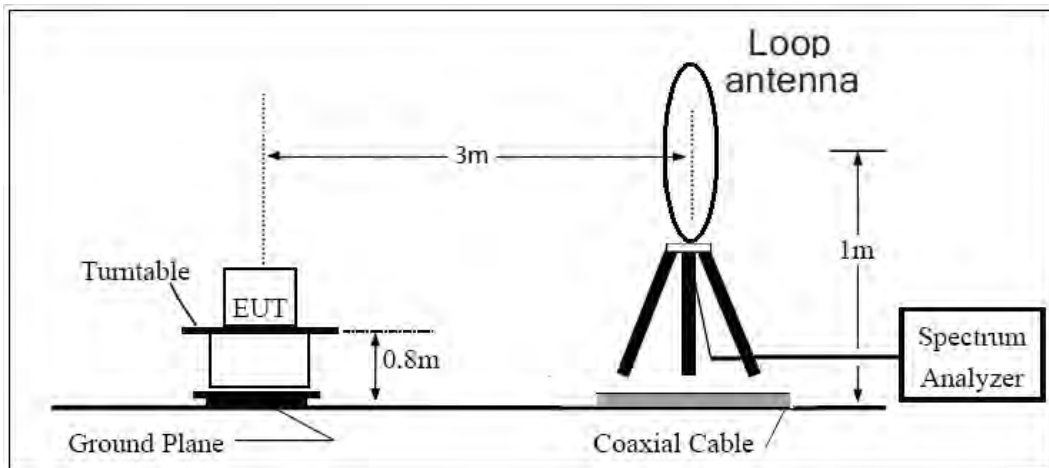
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

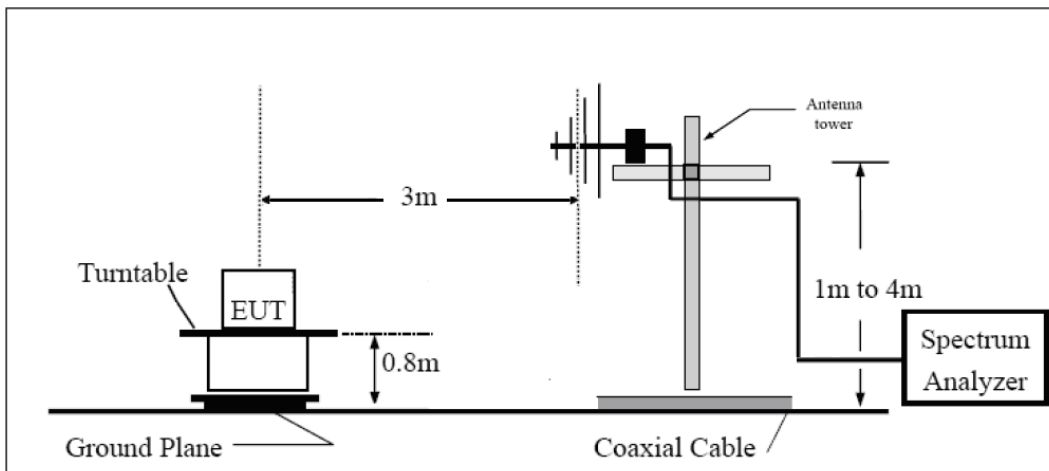
The test is in transmitting mode.

Test setup

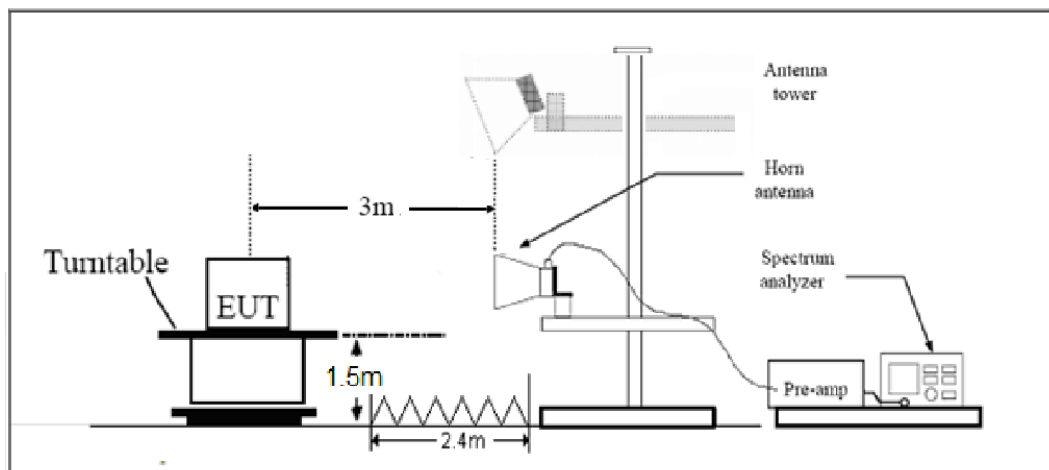
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Measurement Uncertainty

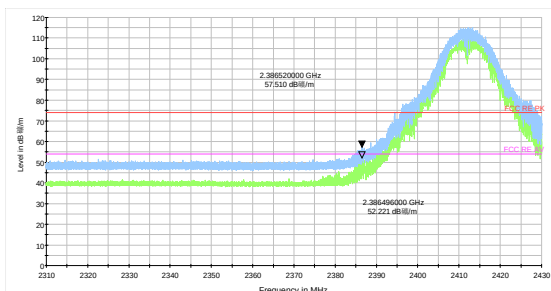
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

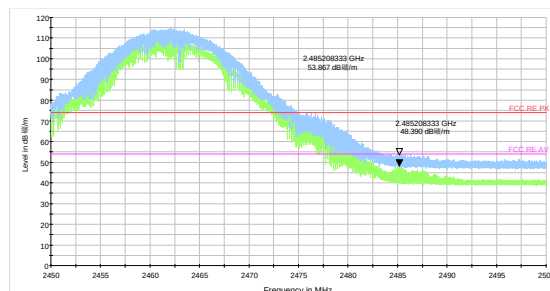


Test Results:

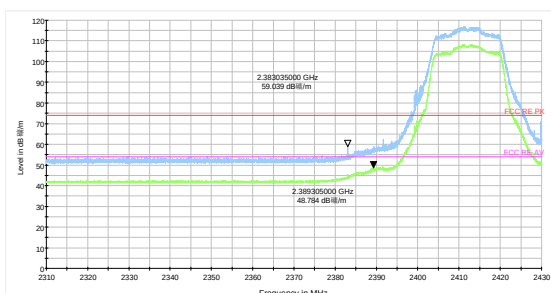
A font (dB μ V/m) in the test plot =(dB μ V/m)



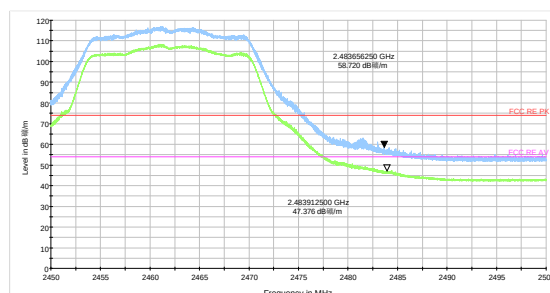
802.11b-Channel 1 Peak+ Average



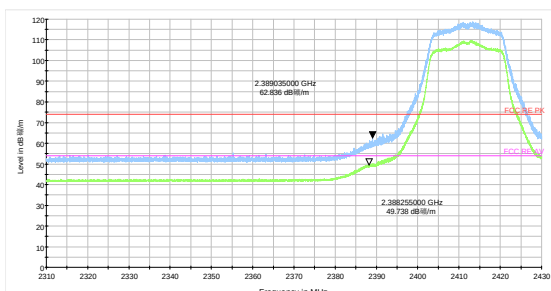
802.11b-Channel 11 Peak+ Average



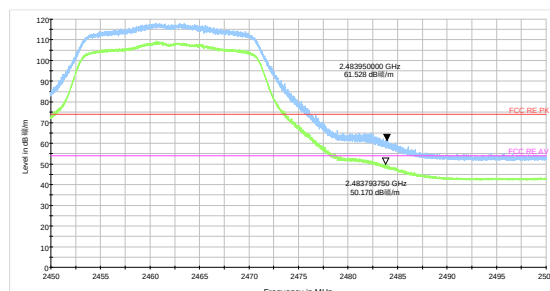
802.11g-Channel 1 Peak+ Average



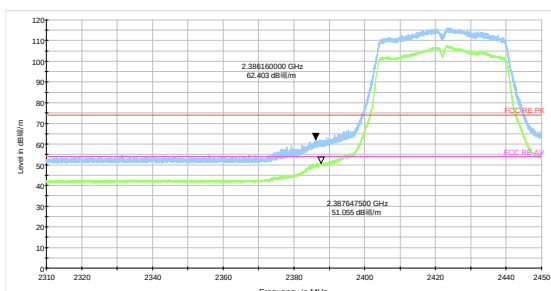
802.11g-Channel 11 Peak+ Average



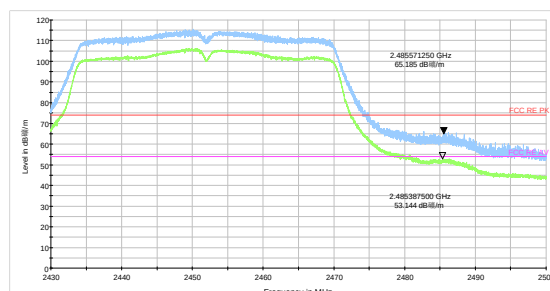
802.11n HT20 -Channel 1 Peak+ Average



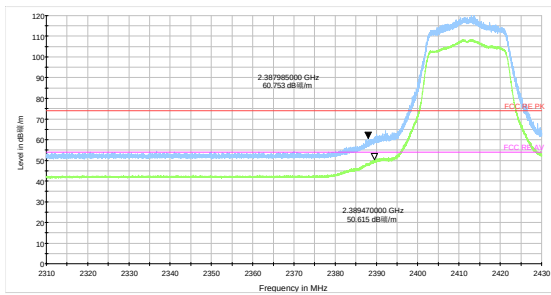
802.11n HT20 -Channel 11 Peak+ Average



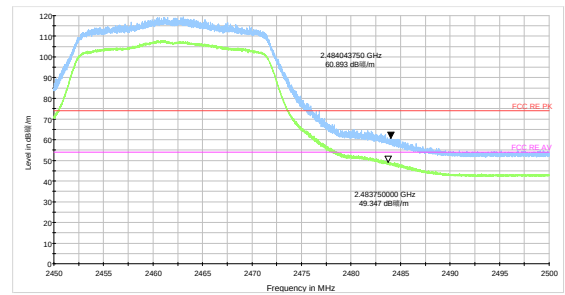
802.11n HT40 -Channel 3 Peak+ Average



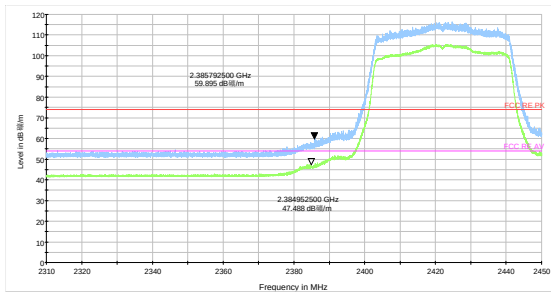
40 -Channel 9 Peak+ Average



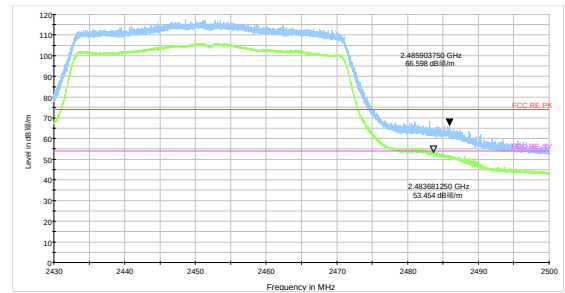
802.11ax HE20 -Channel 1 Peak+ Average



802.11ax HE20 -Channel 11 Peak+ Average



802.11ax HE40 -Channel 3 Peak+ Average



802.11ax HE40 -Channel 9 Peak+ Average

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz are more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

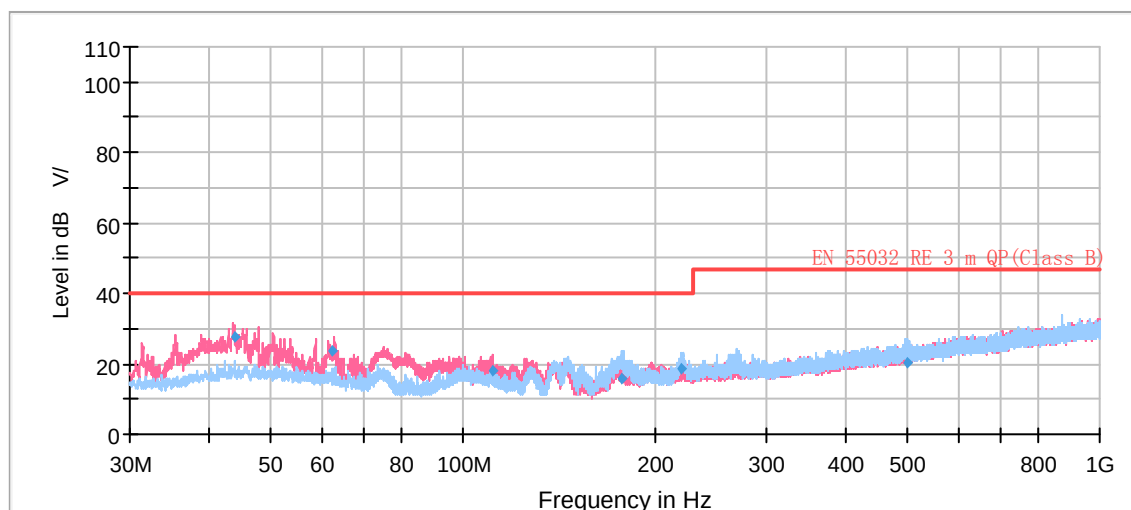
After the pretest, MIMO was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax (HE40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A font (dB μ V/m)in the test plot =(dB μ V/m)

A font (dB μ V)in the test plot =(dB μ V/m)

Continuous TX mode:



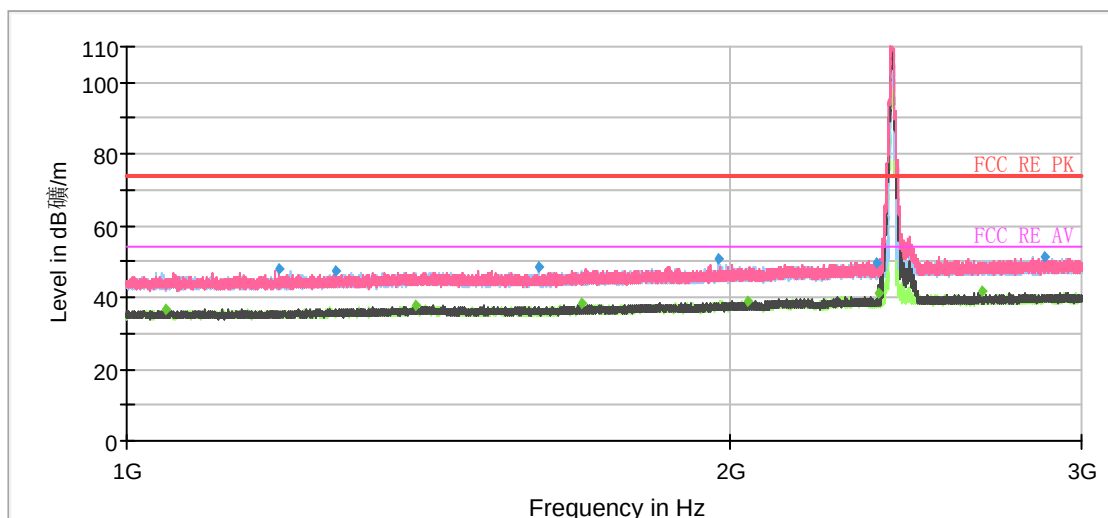
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
43.81	27.61	100.0	V	327.00	20	12.39	40.00
62.23	23.78	100.0	V	301.00	19	16.22	40.00
111.58	17.92	100.0	V	143.00	18	22.08	40.00
177.94	15.87	185.0	H	252.00	16	24.13	40.00
220.56	18.70	125.0	H	0.00	18	21.30	40.00
500.00	20.59	100.0	H	9.00	25	26.41	47.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

802.11b CH1

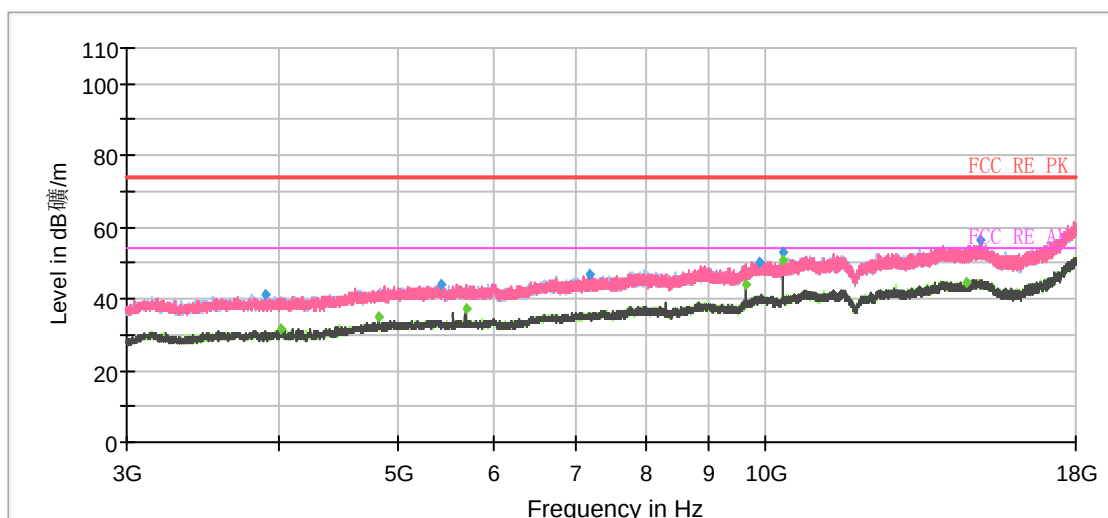


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1046.47	---	36.91	54.00	17.09	100.0	V	60.00	-10
1192.80	47.82	---	74.00	26.18	200.0	V	12.00	-9
1270.80	47.31	---	74.00	26.69	200.0	V	347.00	-8
1394.00	---	37.99	54.00	16.01	100.0	H	52.00	-7
1605.87	48.29	---	74.00	25.71	100.0	H	38.00	-6
1687.47	---	38.35	54.00	15.65	200.0	H	98.00	-6
1975.60	50.93	---	74.00	23.07	200.0	H	354.00	-5
2044.73	---	39.07	54.00	14.93	100.0	H	81.00	-5
2370.13	49.63	---	74.00	24.37	100.0	V	1.00	-4
2374.27	---	41.12	54.00	12.88	100.0	V	358.00	-4
2673.20	---	41.59	54.00	12.41	100.0	H	26.00	-3
2875.40	51.51	---	74.00	22.49	200.0	V	347.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

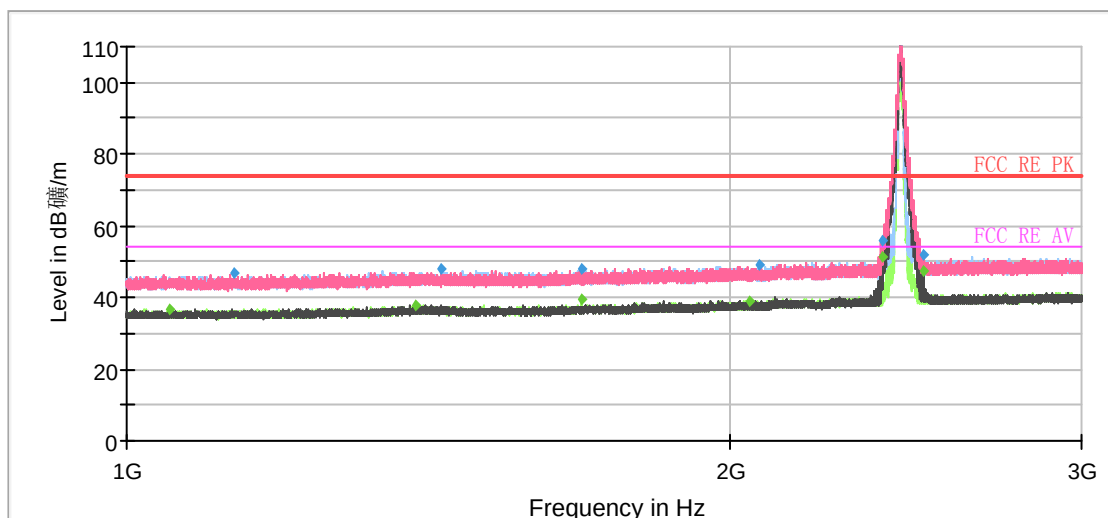


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3894.50	41.18	---	74.00	32.82	100.0	V	3.00	-12
4014.00	---	31.38	54.00	22.62	100.0	H	347.00	-11
4824.00	---	34.85	54.00	19.15	200.0	V	218.00	-9
5422.00	43.73	---	74.00	30.27	100.0	H	100.00	-7
5687.50	---	37.47	54.00	16.53	200.0	V	340.00	-7
7191.50	46.54	---	74.00	27.46	100.0	H	189.00	-4
9648.00	---	44.04	54.00	9.96	100.0	V	9.00	-2
9905.00	50.18	---	74.00	23.82	100.0	H	0.00	-1
10360.00	53.29	---	74.00	20.71	100.0	V	164.00	0
10360.00	---	50.78	54.00	3.22	100.0	V	164.00	0
14649.00	---	44.35	54.00	9.65	100.0	H	0.00	5
15001.00	56.45	---	74.00	17.55	200.0	V	40.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH6

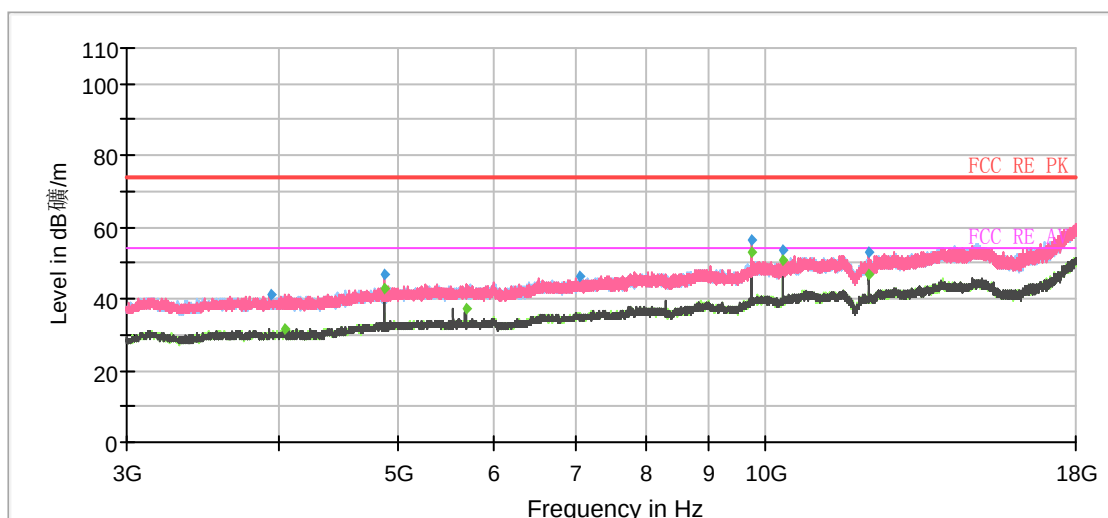


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.40	---	36.72	54.00	17.28	200.0	H	115.00	-10
1132.60	46.62	---	74.00	27.38	100.0	H	9.00	-9
1395.80	---	37.82	54.00	16.18	100.0	V	250.00	-7
1435.40	47.67	---	74.00	26.33	200.0	V	175.00	-7
1687.60	47.67	---	74.00	26.33	200.0	V	66.00	-6
1687.73	---	39.27	54.00	14.73	100.0	H	74.00	-6
2045.93	---	39.07	54.00	14.93	100.0	V	223.00	-5
2071.93	49.12	---	74.00	24.88	100.0	H	1.00	-5
2386.00	55.95	---	74.00	18.05	100.0	V	358.00	-4
2386.20	---	51.23	54.00	2.77	100.0	V	358.00	-4
2499.60	---	47.48	54.00	6.52	100.0	V	353.00	-4
2499.80	51.95	---	74.00	22.05	100.0	V	353.00	-4

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

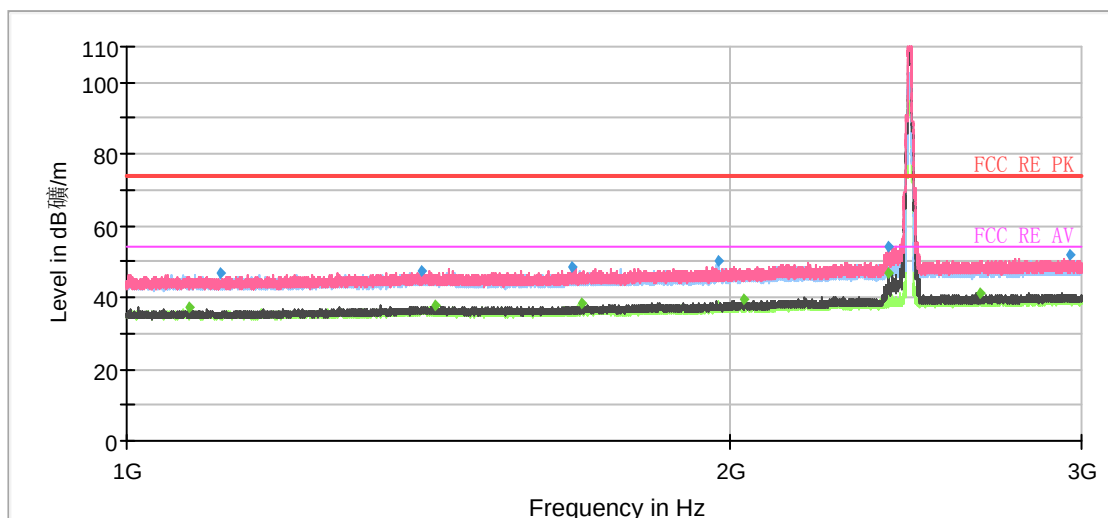


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3938.00	41.02	---	74.00	32.98	200.0	V	293.00	-12
4040.50	---	31.38	54.00	22.62	200.0	V	141.00	-11
4874.00	---	42.78	54.00	11.22	200.0	V	211.00	-9
4874.00	46.91	---	74.00	27.09	200.0	V	211.00	-9
5687.50	---	37.41	54.00	16.59	200.0	V	0.00	-7
7068.50	46.08	---	74.00	27.92	100.0	H	291.00	-3
9748.00	---	52.81	54.00	1.19	100.0	V	1.00	-2
9748.50	56.18	---	74.00	17.82	100.0	V	0.00	-2
10360.00	53.62	---	74.00	20.38	100.0	V	160.00	0
10360.00	---	50.55	54.00	3.45	100.0	V	160.00	0
12183.00	---	46.73	54.00	7.27	200.0	V	10.00	1
12184.50	53.05	---	74.00	20.95	100.0	V	0.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH11

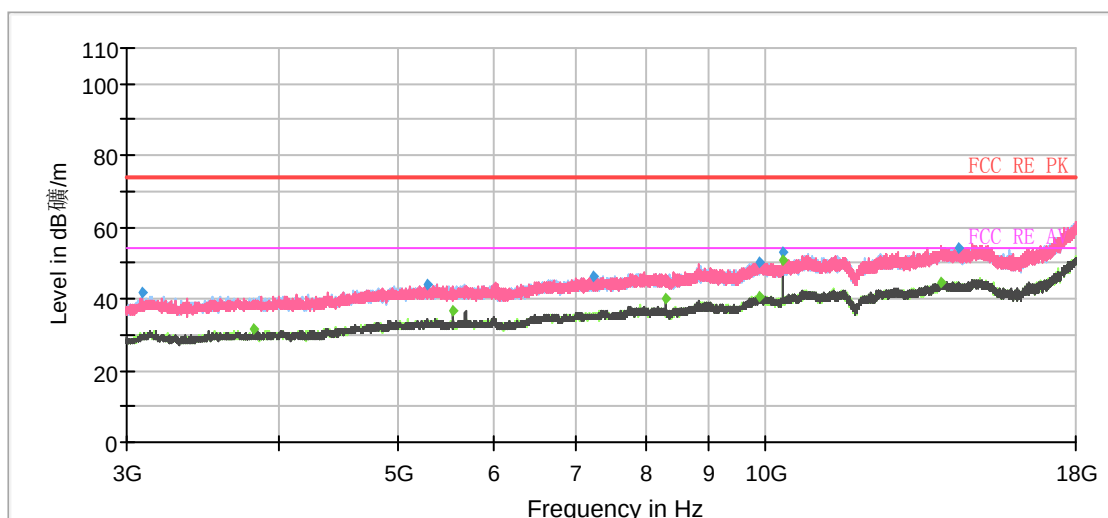


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1073.67	---	37.04	54.00	16.96	100.0	H	0.00	-9
1113.07	46.63	---	74.00	27.37	100.0	H	218.00	-9
1402.60	47.49	---	74.00	26.51	200.0	V	144.00	-7
1426.80	---	37.67	54.00	16.33	100.0	V	0.00	-7
1668.07	48.48	---	74.00	25.52	200.0	V	267.00	-6
1687.40	---	38.50	54.00	15.50	100.0	H	108.00	-6
1977.33	50.18	---	74.00	23.82	200.0	H	346.00	-5
2033.60	---	39.48	54.00	14.52	200.0	V	301.00	-5
2400.33	---	46.79	54.00	7.21	100.0	V	356.00	-4
2401.40	53.91	---	74.00	20.09	100.0	V	354.00	-4
2671.07	---	41.18	54.00	12.82	100.0	V	13.00	-3
2961.20	51.77	---	74.00	22.23	200.0	V	50.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

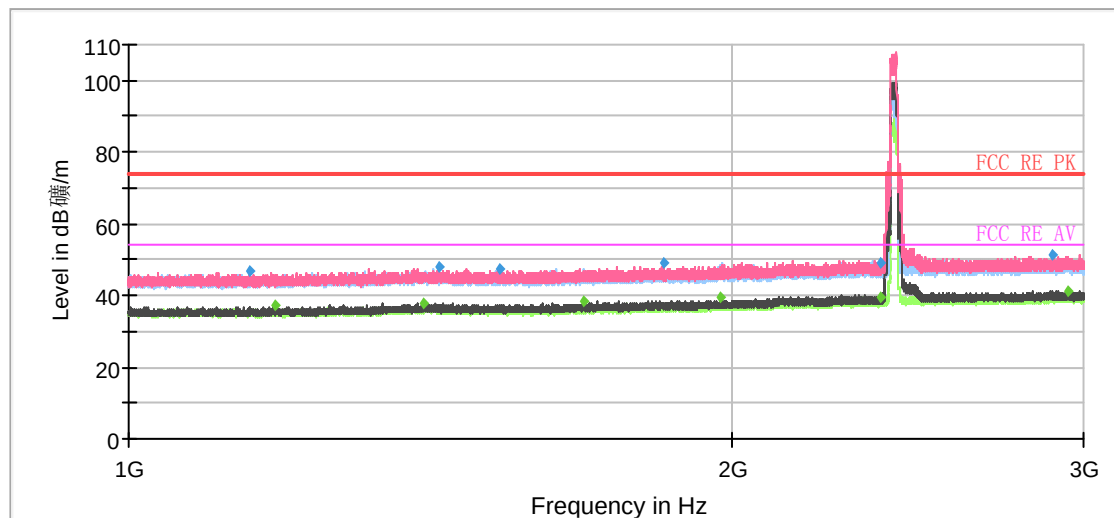


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3087.00	41.46	---	74.00	32.54	100.0	H	98.00	-13
3816.00	---	31.39	54.00	22.61	200.0	H	178.00	-12
5302.50	43.82	---	74.00	30.18	200.0	H	16.00	-8
5562.50	---	36.89	54.00	17.11	200.0	V	359.00	-7
7238.00	46.42	---	74.00	27.58	100.0	V	16.00	-4
8288.00	---	39.92	54.00	14.08	100.0	V	65.00	-3
9904.50	50.47	---	74.00	23.53	200.0	H	80.00	-1
9904.50	---	40.64	54.00	13.36	200.0	H	80.00	-1
10360.00	53.27	---	74.00	20.73	100.0	V	162.00	0
10360.00	---	50.80	54.00	3.20	100.0	V	162.00	0
13940.00	---	44.50	54.00	9.50	200.0	V	0.00	5
14438.00	54.18	---	74.00	19.82	200.0	H	350.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH1

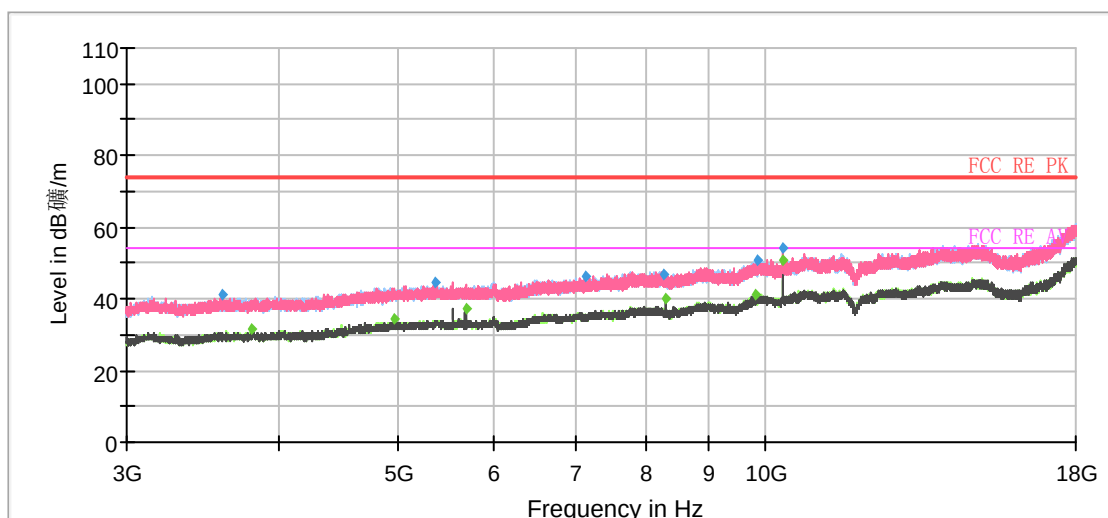


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1148.33	46.79	---	74.00	27.21	200.0	V	0.00	-9
1183.87	---	37.32	54.00	16.68	100.0	V	270.00	-9
1403.33	---	37.66	54.00	16.34	100.0	V	270.00	-7
1428.33	47.74	---	74.00	26.26	200.0	V	353.00	-7
1533.33	47.61	---	74.00	26.39	100.0	V	105.00	-7
1687.33	---	38.48	54.00	15.52	100.0	H	126.00	-6
1851.87	49.11	---	74.00	24.90	200.0	V	353.00	-5
1977.07	---	39.35	54.00	14.65	100.0	V	358.00	-5
2372.73	49.18	---	74.00	24.82	100.0	V	39.00	-4
2373.00	---	39.40	54.00	14.60	100.0	V	186.00	-4
2892.27	51.32	---	74.00	22.68	100.0	V	65.00	-3
2948.73	---	41.15	54.00	12.85	100.0	V	132.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

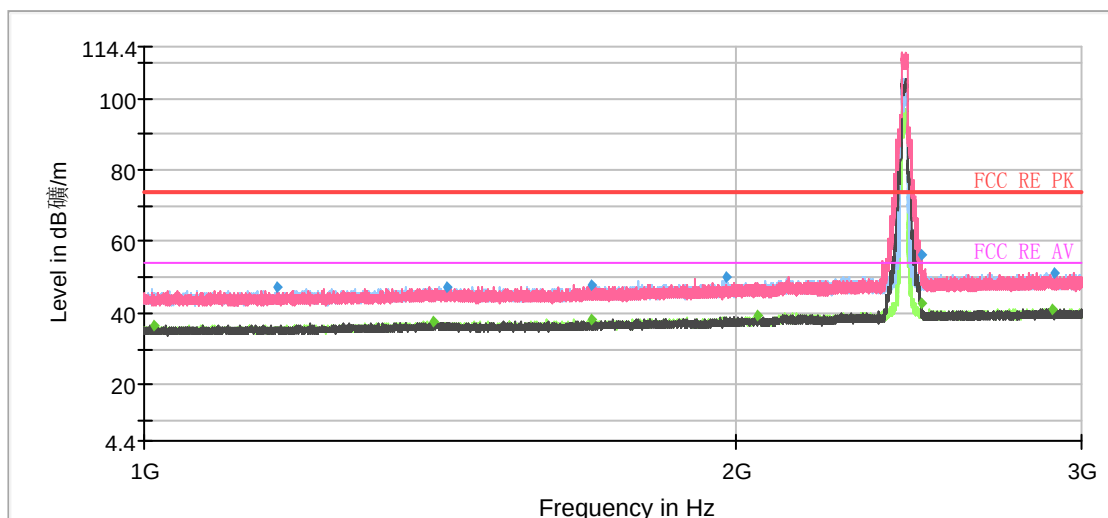


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3588.00	40.93	---	74.00	33.07	200.0	V	10.00	-13
3803.50	---	31.45	54.00	22.55	200.0	V	0.00	-12
4965.50	---	34.24	54.00	19.76	100.0	H	356.00	-8
5369.00	44.50	---	74.00	29.50	200.0	H	349.00	-7
5687.50	---	37.39	54.00	16.61	200.0	V	352.00	-7
7125.00	46.32	---	74.00	27.68	100.0	H	144.00	-3
8279.50	46.93	---	74.00	27.07	200.0	V	42.00	-3
8288.00	---	39.88	54.00	14.12	100.0	V	216.00	-3
9823.00	---	40.90	54.00	13.10	100.0	V	90.00	-1
9873.00	50.66	---	74.00	23.34	200.0	V	231.00	-1
10360.00	---	50.77	54.00	3.23	100.0	V	320.00	0
10360.00	54.41	---	74.00	19.59	100.0	V	320.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH6

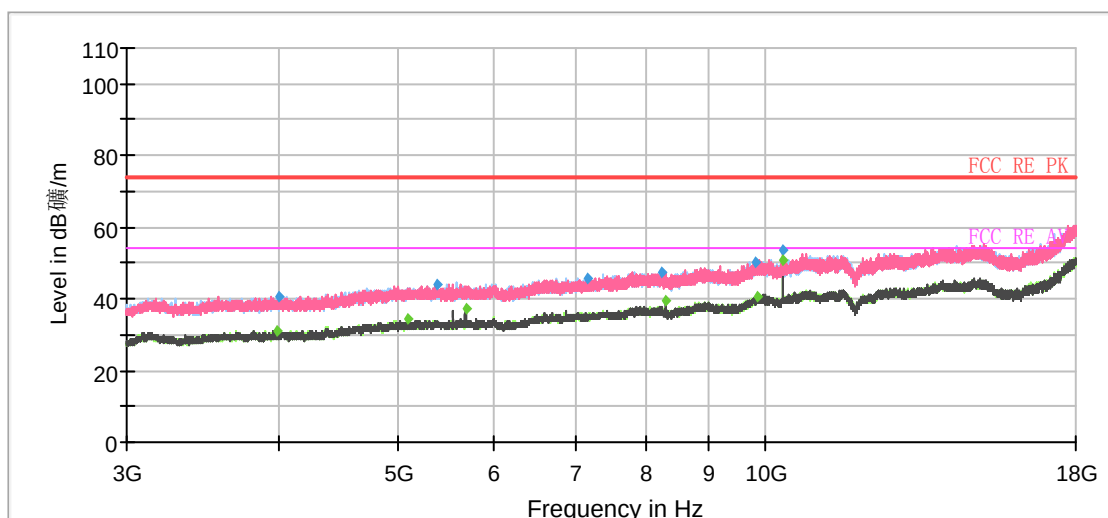


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1012.07	---	36.74	54.00	17.26	200.0	H	358.00	-10
1168.67	47.13	---	74.00	26.87	100.0	V	2.00	-9
1403.60	---	37.86	54.00	16.14	100.0	V	175.00	-7
1425.93	47.36	---	74.00	26.64	200.0	H	244.00	-7
1687.93	---	38.16	54.00	15.84	100.0	H	297.00	-6
1688.00	48.09	---	74.00	25.91	200.0	V	357.00	-6
1976.00	50.18	---	74.00	23.82	100.0	H	335.00	-5
2051.07	---	39.46	54.00	14.54	100.0	H	344.00	-5
2488.33	56.43	---	74.00	17.57	200.0	V	177.00	-4
2488.33	---	42.52	54.00	11.48	200.0	V	177.00	-4
2900.27	---	41.20	54.00	12.80	100.0	V	29.00	-3
2906.47	51.38	---	74.00	22.62	200.0	V	14.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

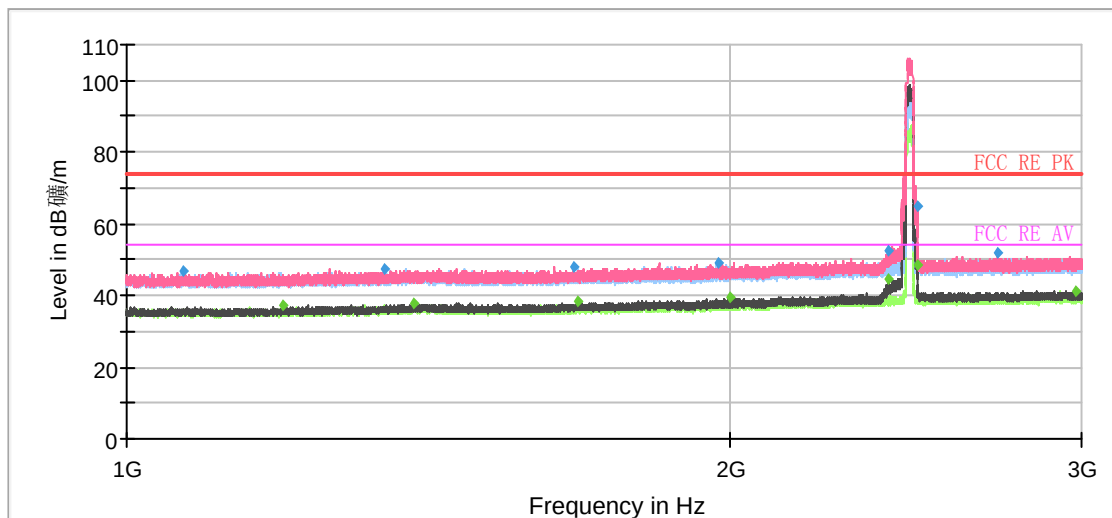


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3988.50	---	30.89	54.00	23.11	100.0	H	315.00	-11
4000.50	40.58	---	74.00	33.42	100.0	V	47.00	-11
5106.00	---	34.25	54.00	19.75	200.0	V	41.00	-8
5400.50	44.00	---	74.00	30.00	100.0	H	172.00	-7
5687.50	---	37.33	54.00	16.67	200.0	V	0.00	-7
7148.50	45.82	---	74.00	28.18	100.0	H	217.00	-4
8229.50	47.17	---	74.00	26.83	100.0	V	103.00	-3
8288.00	---	39.28	54.00	14.72	100.0	V	60.00	-3
9821.50	50.43	---	74.00	23.57	100.0	H	356.00	-1
9886.00	---	40.82	54.00	13.18	100.0	H	356.00	-1
10360.00	---	50.51	54.00	3.49	100.0	V	319.00	0
10360.00	53.56	---	74.00	20.44	100.0	V	319.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH11

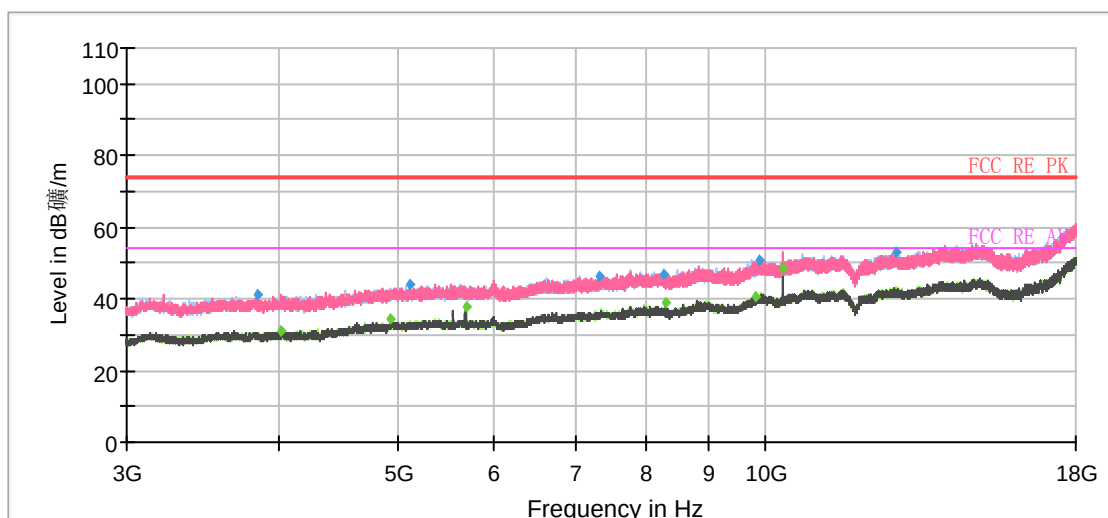


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1068.27	46.72	---	74.00	27.28	100.0	V	5.00	-9
1197.07	---	37.11	54.00	16.89	200.0	V	210.00	-9
1345.87	47.34	---	74.00	26.66	100.0	V	231.00	-7
1391.00	---	37.88	54.00	16.12	100.0	V	69.00	-7
1671.47	47.74	---	74.00	26.26	100.0	V	20.00	-6
1678.47	---	38.11	54.00	15.89	200.0	V	87.00	-6
1975.07	49.31	---	74.00	24.69	200.0	V	236.00	-5
2002.20	---	39.23	54.00	14.77	100.0	V	13.00	-5
2399.80	---	44.60	54.00	9.40	200.0	V	156.00	-4
2400.07	52.32	---	74.00	21.68	100.0	V	20.00	-4
2484.67	---	48.26	54.00	5.74	200.0	V	210.00	-4
2485.07	64.95	---	74.00	9.05	200.0	V	321.00	-4
2726.07	51.91	---	74.00	22.09	100.0	V	176.00	-4
2977.80	---	41.36	54.00	12.64	200.0	V	0.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

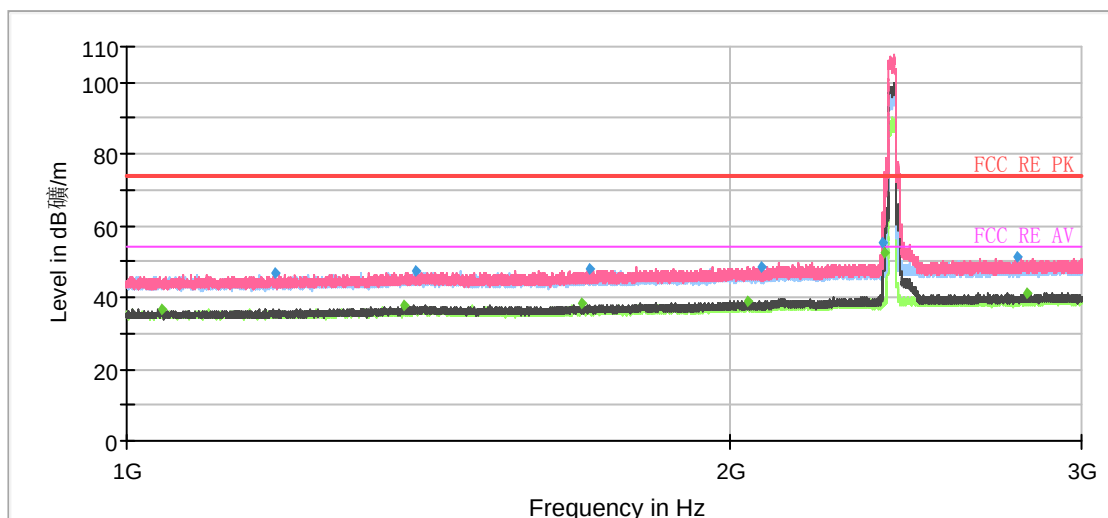


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3837.50	41.24	---	74.00	32.76	200.0	V	352.00	-12
4019.00	---	31.07	54.00	22.93	200.0	V	336.00	-11
4935.00	---	34.21	54.00	19.80	200.0	V	0.00	-8
5123.00	43.82	---	74.00	30.18	200.0	V	185.00	-8
5687.50	---	37.76	54.00	16.24	200.0	V	357.00	-7
7321.00	46.44	---	74.00	27.56	200.0	V	241.00	-3
8280.50	47.09	---	74.00	26.91	100.0	H	0.00	-3
8288.00	---	38.89	54.00	15.11	100.0	V	314.00	-3
9848.00	---	40.88	54.00	13.12	200.0	V	269.00	-1
9893.00	50.51	---	74.00	23.49	200.0	V	269.00	-1
10360.00	---	48.64	54.00	5.36	100.0	V	156.00	0
12835.50	53.10	---	74.00	20.90	100.0	V	20.00	2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH1

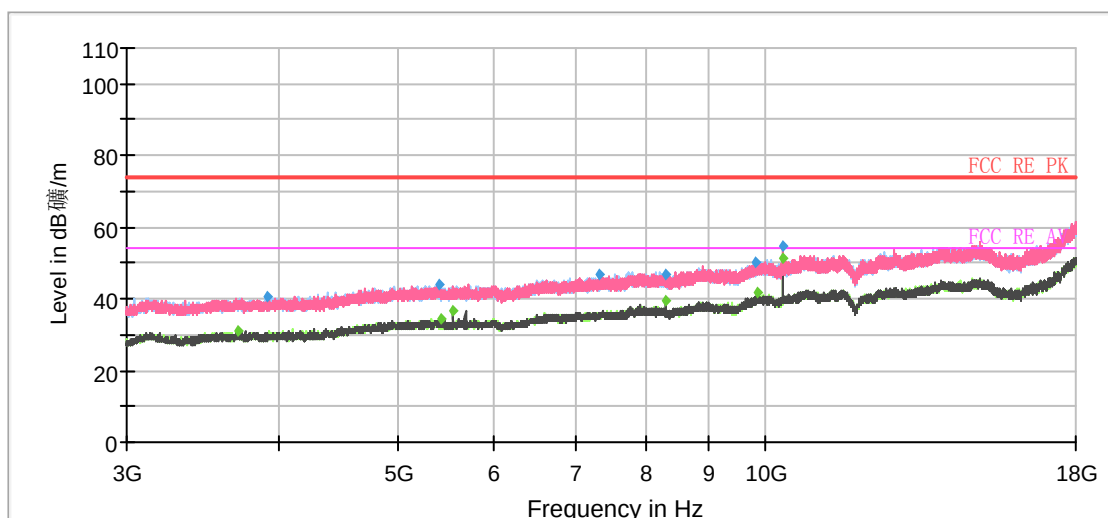


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1040.47	---	36.73	54.00	17.27	200.0	V	144.00	-10
1185.20	46.67	---	74.00	27.33	100.0	V	258.00	-9
1377.20	---	37.74	54.00	16.26	200.0	V	158.00	-7
1394.87	47.41	---	74.00	26.59	100.0	V	96.00	-7
1688.00	---	38.37	54.00	15.63	100.0	V	20.00	-6
1703.33	47.75	---	74.00	26.25	100.0	H	150.00	-6
2043.67	---	39.12	54.00	14.88	200.0	V	74.00	-5
2076.73	48.64	---	74.00	25.36	200.0	H	208.00	-5
2384.07	55.24	---	74.00	18.76	200.0	V	212.00	-4
2388.67	---	52.63	54.00	1.37	200.0	V	212.00	-4
2785.60	51.32	---	74.00	22.68	200.0	V	357.00	-4
2816.00	---	41.40	54.00	12.60	100.0	V	56.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

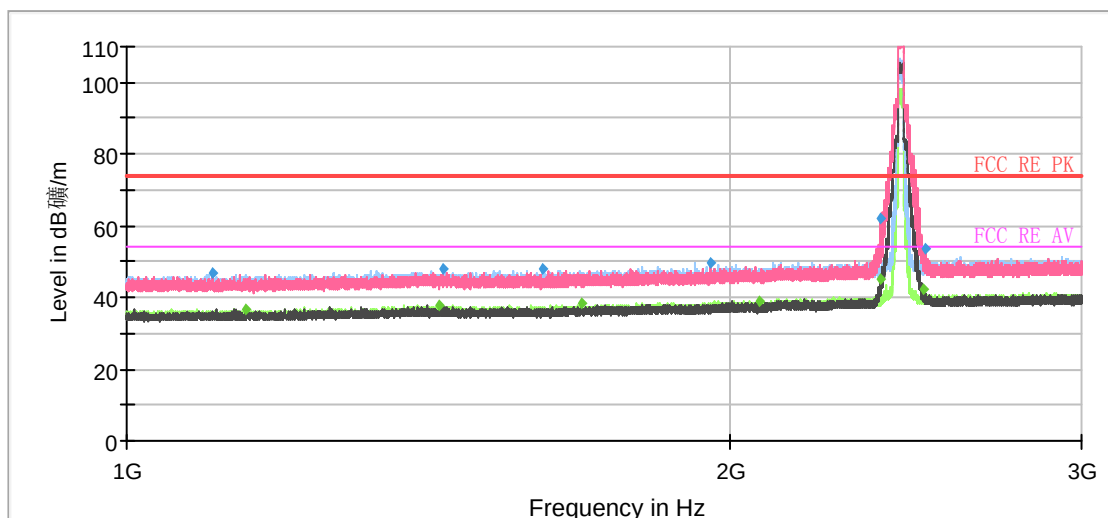


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3703.50	---	31.18	54.00	22.82	200.0	V	188.00	-12
3905.50	40.77	---	74.00	33.23	100.0	V	202.00	-12
5404.50	44.05	---	74.00	29.95	200.0	V	356.00	-7
5437.50	---	34.31	54.00	19.69	100.0	V	146.00	-7
5562.50	---	36.83	54.00	17.17	200.0	V	358.00	-7
7322.00	46.94	---	74.00	27.06	200.0	H	260.00	-3
8288.00	46.64	---	74.00	27.36	100.0	V	48.00	-3
8288.00	---	39.45	54.00	14.55	100.0	V	48.00	-3
9840.00	50.47	---	74.00	23.53	100.0	H	338.00	-1
9874.00	---	41.52	54.00	12.48	200.0	H	318.00	-1
10360.00	---	51.20	54.00	2.80	100.0	V	319.00	0
10360.00	54.49	---	74.00	19.51	100.0	V	319.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH6

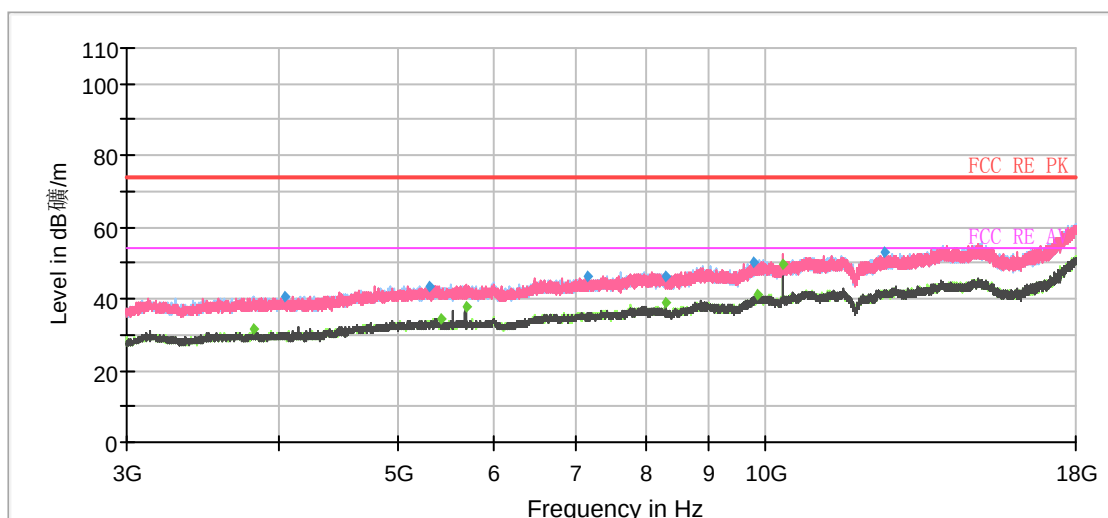


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1103.33	46.54	---	74.00	27.46	200.0	V	55.00	-9
1145.67	---	36.86	54.00	17.14	100.0	V	87.00	-9
1433.33	---	37.72	54.00	16.28	100.0	H	143.00	-7
1440.40	47.96	---	74.00	26.04	200.0	H	277.00	-7
1614.80	47.92	---	74.00	26.08	200.0	H	317.00	-6
1687.60	---	38.40	54.00	15.60	200.0	H	185.00	-6
1957.07	49.52	---	74.00	24.48	200.0	V	2.00	-5
2070.27	---	39.16	54.00	14.84	200.0	H	143.00	-5
2381.07	61.94	---	74.00	12.06	200.0	V	29.00	-4
2381.07	---	45.39	54.00	8.61	200.0	V	29.00	-4
2498.33	---	42.19	54.00	11.81	200.0	V	148.00	-4
2505.60	53.49	---	74.00	20.51	200.0	V	331.00	-4

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

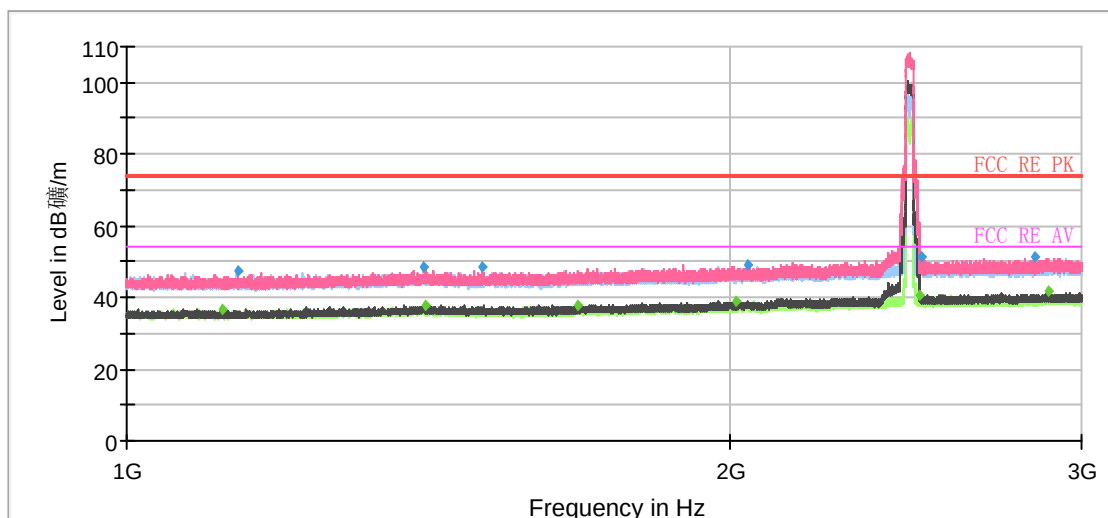


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3807.00	---	31.36	54.00	22.64	100.0	V	4.00	-12
4039.50	40.72	---	74.00	33.28	100.0	V	74.00	-11
5307.50	43.59	---	74.00	30.41	200.0	V	115.00	-8
5437.50	---	34.34	54.00	19.66	200.0	V	227.00	-7
5687.50	---	37.76	54.00	16.24	200.0	V	143.00	-7
7159.50	46.20	---	74.00	27.80	100.0	V	88.00	-4
8288.00	---	38.86	54.00	15.14	100.0	V	348.00	-3
8288.50	46.44	---	74.00	27.56	100.0	V	301.00	-3
9812.50	50.01	---	74.00	23.99	100.0	V	4.00	-1
9876.50	---	41.08	54.00	12.92	200.0	V	227.00	-1
10360.00	---	49.43	54.00	4.57	100.0	V	158.00	0
12553.00	52.78	---	74.00	21.22	100.0	H	0.00	2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH11

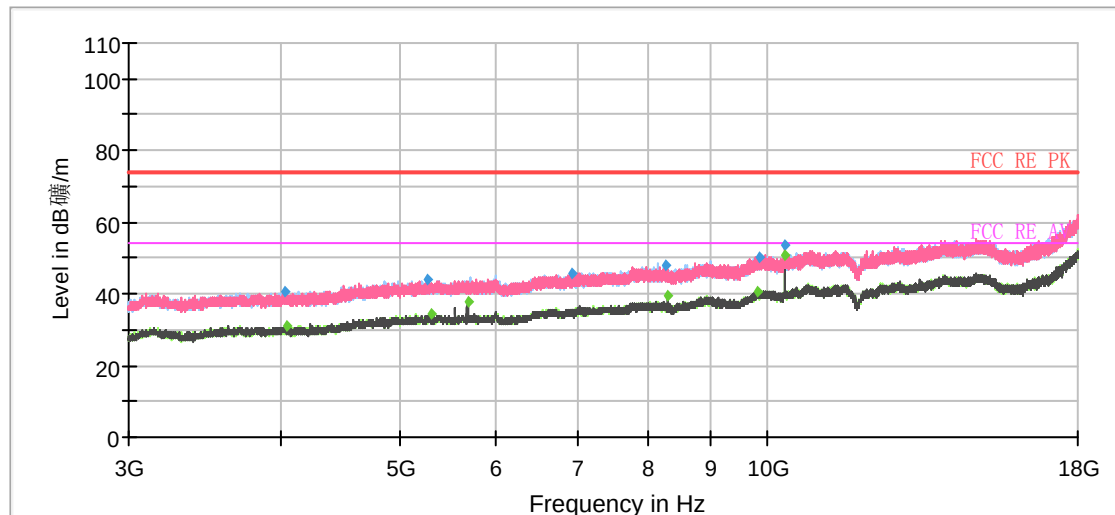


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1115.47	---	36.61	54.00	17.39	100.0	V	350.00	-9
1136.93	47.31	---	74.00	26.69	100.0	H	183.00	-9
1408.20	48.49	---	74.00	25.51	200.0	H	316.00	-7
1409.53	---	37.90	54.00	16.10	100.0	V	107.00	-7
1506.60	48.73	---	74.00	25.27	200.0	V	41.00	-7
1679.73	---	37.98	54.00	16.02	100.0	V	354.00	-6
2016.73	---	39.04	54.00	14.96	200.0	V	68.00	-5
2044.67	48.83	---	74.00	25.17	200.0	V	0.00	-5
2491.80	---	40.48	54.00	13.52	200.0	V	12.00	-4
2493.00	51.49	---	74.00	22.51	200.0	V	216.00	-4
2843.67	51.36	---	74.00	22.64	200.0	V	29.00	-3
2888.33	---	41.69	54.00	12.31	200.0	V	244.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

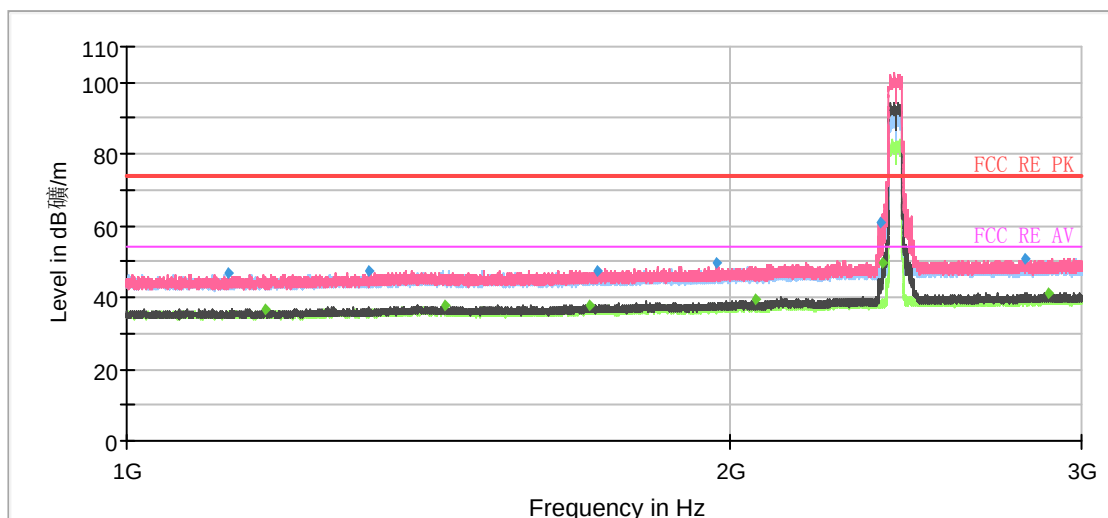


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4029.00	40.87	---	74.00	33.13	200.0	V	128.00	-11
4042.00	---	31.12	54.00	22.88	100.0	H	300.00	-11
5280.00	44.18	---	74.00	29.82	200.0	H	5.00	-8
5321.50	---	34.33	54.00	19.67	100.0	V	0.00	-7
5687.50	---	37.65	54.00	16.35	200.0	V	356.00	-7
6939.50	45.96	---	74.00	28.04	100.0	H	0.00	-3
8270.00	47.92	---	74.00	26.08	200.0	V	244.00	-3
8288.00	---	39.36	54.00	14.64	100.0	V	334.00	-3
9844.00	---	40.76	54.00	13.24	100.0	V	304.00	-1
9876.00	50.20	---	74.00	23.80	200.0	V	301.00	-1
10360.00	---	50.55	54.00	3.45	100.0	V	160.00	0
10360.00	53.51	---	74.00	20.49	100.0	V	160.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH3

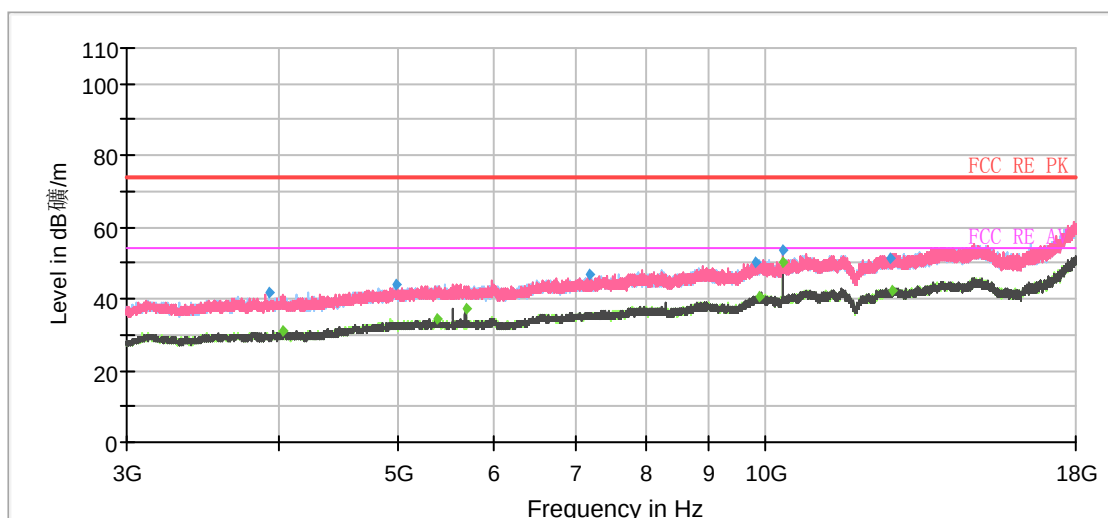


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1125.07	46.58	---	74.00	27.42	200.0	V	228.00	-9
1172.13	---	36.90	54.00	17.10	200.0	V	307.00	-9
1321.33	47.62	---	74.00	26.38	200.0	V	267.00	-8
1442.20	---	37.72	54.00	16.28	200.0	V	0.00	-7
1704.07	---	38.07	54.00	15.93	100.0	V	2.00	-6
1717.47	47.66	---	74.00	26.34	200.0	V	333.00	-6
1969.47	49.63	---	74.00	24.37	100.0	V	228.00	-5
2060.73	---	39.23	54.00	14.77	100.0	V	77.00	-5
2379.53	60.70	---	74.00	13.30	200.0	V	333.00	-4
2386.40	---	49.81	54.00	4.19	200.0	V	215.00	-4
2810.20	50.88	---	74.00	23.12	200.0	V	358.00	-3
2886.40	---	41.24	54.00	12.76	100.0	V	214.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

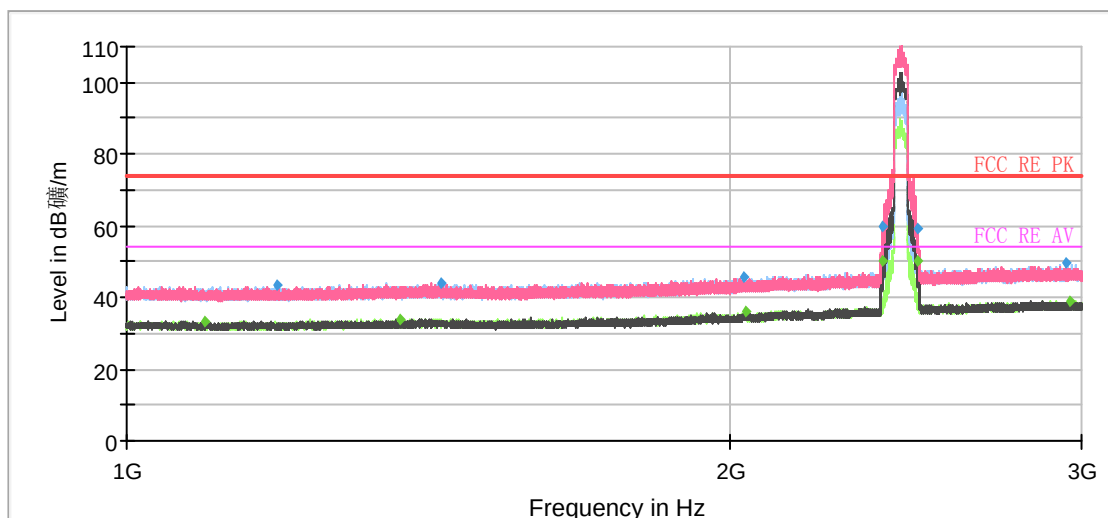


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3922.00	41.53	---	74.00	32.47	200.0	H	3.00	-12
4023.00	---	31.18	54.00	22.82	200.0	V	1.00	-11
4997.00	43.75	---	74.00	30.25	200.0	V	288.00	-8
5401.00	---	34.31	54.00	19.69	100.0	V	63.00	-7
5687.50	---	37.19	54.00	16.81	200.0	V	340.00	-7
7196.50	46.94	---	74.00	27.06	100.0	V	104.00	-4
9844.00	50.31	---	74.00	23.69	100.0	V	303.00	-1
9888.00	---	40.77	54.00	13.23	200.0	H	147.00	-1
10359.50	53.78	---	74.00	20.22	100.0	V	318.00	0
10360.00	---	50.20	54.00	3.80	100.0	V	160.00	0
12671.50	51.59	---	74.00	22.41	100.0	H	314.00	2
12733.50	---	42.40	54.00	11.60	100.0	H	0.00	3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH6

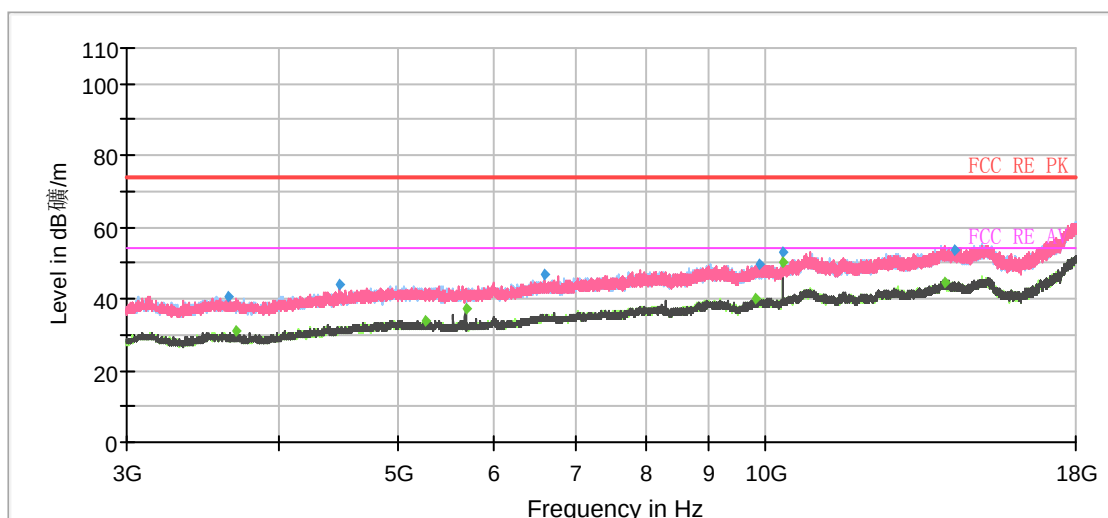


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.53	---	33.54	54.00	20.46	200.0	V	359.00	5
1189.07	43.40	---	74.00	30.60	100.0	H	92.00	6
1370.67	---	34.09	54.00	19.91	200.0	H	94.00	7
1435.00	44.16	---	74.00	29.84	200.0	H	21.00	7
2034.07	45.63	---	74.00	28.37	200.0	H	21.00	10
2040.47	---	35.86	54.00	18.14	200.0	V	0.00	10
2387.07	59.88	---	74.00	14.12	200.0	V	0.00	11
2388.27	---	50.48	54.00	3.52	100.0	V	358.00	11
2484.93	59.35	---	74.00	14.65	100.0	V	10.00	11
2485.00	---	50.00	54.00	4.00	100.0	V	10.00	11
2945.27	49.37	---	74.00	24.63	200.0	V	359.00	12
2958.07	---	38.93	54.00	15.07	200.0	V	230.00	12

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

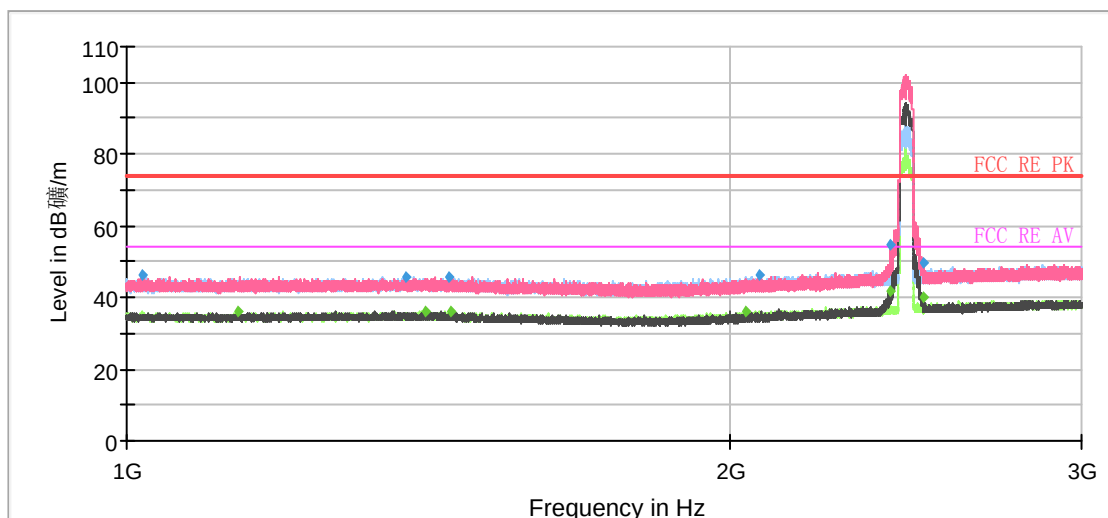


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3637.50	40.81	---	74.00	33.19	100.0	V	357.00	-13
3687.00	---	30.91	54.00	23.09	100.0	H	202.00	-12
4483.00	43.77	---	74.00	30.23	200.0	V	5.00	-10
5268.00	---	34.09	54.00	19.91	100.0	V	324.00	-8
5687.50	---	37.10	54.00	16.90	200.0	V	0.00	-7
6608.00	46.78	---	74.00	27.23	200.0	H	0.00	-4
9820.00	---	40.05	54.00	13.95	200.0	H	333.00	-1
9904.50	49.63	---	74.00	24.37	200.0	V	15.00	-1
10360.00	53.23	---	74.00	20.77	100.0	V	154.00	0
10360.00	---	50.00	54.00	4.00	100.0	V	154.00	0
14043.50	---	44.32	54.00	9.68	100.0	H	24.00	5
14332.00	53.47	---	74.00	20.53	200.0	H	279.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH9

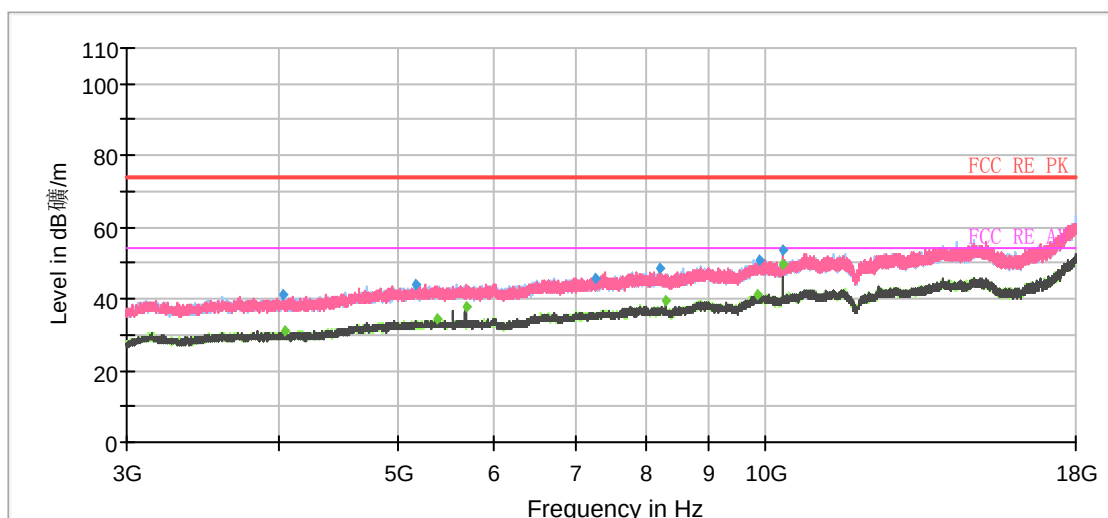


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1019.20	46.03	---	74.00	27.97	200.0	H	1.00	-10
1136.27	---	35.95	54.00	18.05	200.0	H	108.00	-9
1380.07	45.82	---	74.00	28.18	100.0	V	88.00	-7
1411.47	---	36.10	54.00	17.90	200.0	H	212.00	-7
1447.33	45.92	---	74.00	28.08	200.0	H	1.00	-7
1453.40	---	35.93	54.00	18.07	200.0	V	352.00	-7
2040.13	---	36.18	54.00	17.82	100.0	H	235.00	-5
2068.93	46.10	---	74.00	27.90	200.0	H	134.00	-5
2409.07	54.92	---	74.00	19.08	200.0	V	208.00	-4
2409.07	---	41.63	54.00	12.37	200.0	V	208.00	-4
2498.20	---	40.03	54.00	13.97	200.0	V	141.00	-4
2498.87	49.41	---	74.00	24.59	200.0	V	329.00	-4

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

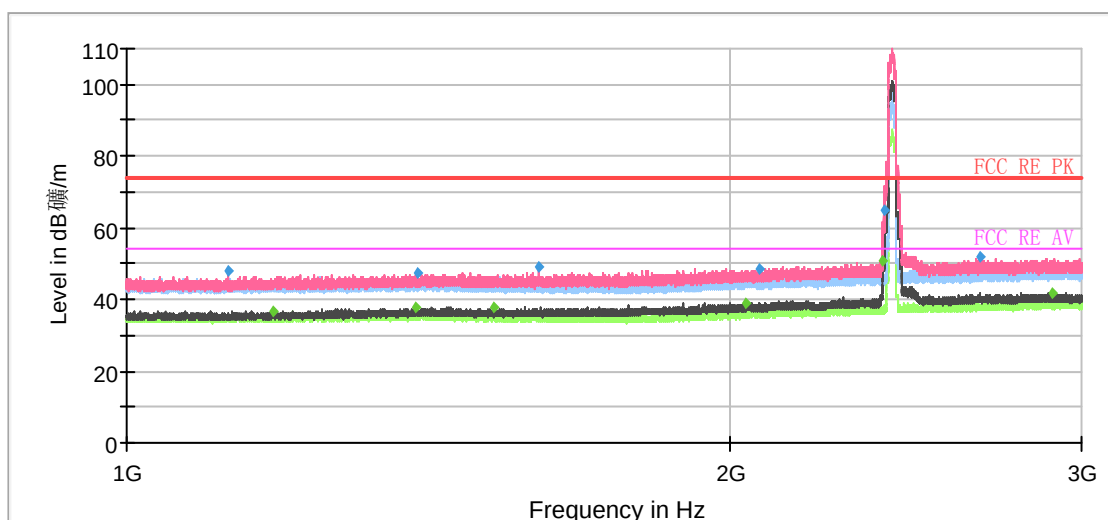


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4025.00	41.00	---	74.00	33.00	100.0	V	160.00	-11
4042.00	---	30.83	54.00	23.17	200.0	V	355.00	-11
5174.00	44.25	---	74.00	29.75	200.0	H	60.00	-8
5393.00	---	34.18	54.00	19.82	100.0	H	0.00	-7
5687.50	---	37.55	54.00	16.45	200.0	V	355.00	-7
7280.50	45.88	---	74.00	28.12	100.0	V	20.00	-4
8215.50	48.30	---	74.00	25.70	200.0	V	328.00	-3
8288.00	---	39.63	54.00	14.37	100.0	V	320.00	-3
9857.00	---	41.01	54.00	12.99	200.0	V	314.00	-1
9898.00	50.83	---	74.00	23.17	200.0	H	78.00	-1
10360.00	---	49.83	54.00	4.17	100.0	V	320.00	0
10360.00	53.44	---	74.00	20.56	100.0	V	320.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) CH1

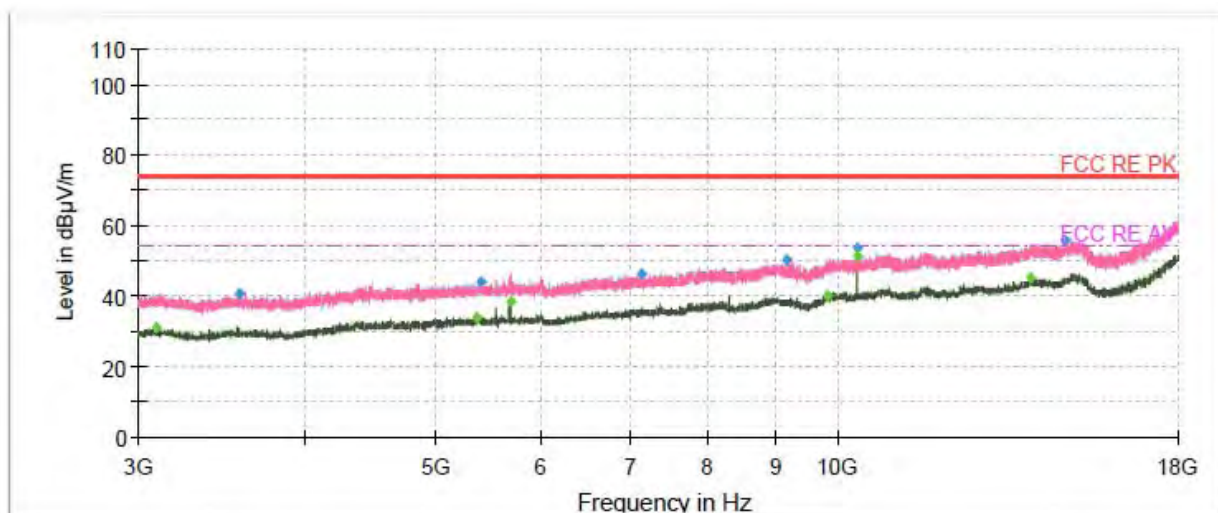


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1123.60	47.71	---	74.00	26.29	100.0	V	196.00	-9
1182.60	---	36.92	54.00	17.08	100.0	V	223.00	-9
1393.20	---	37.67	54.00	16.33	100.0	V	276.00	-7
1398.20	47.52	---	74.00	26.48	100.0	V	276.00	-7
1524.33	---	37.84	54.00	16.16	100.0	V	250.00	-7
1607.00	49.09	---	74.00	24.91	200.0	V	0.00	-6
2038.20	---	38.87	54.00	15.13	100.0	V	276.00	-5
2070.87	48.38	---	74.00	25.62	100.0	V	359.00	-5
2387.80	---	50.77	54.00	3.23	200.0	V	219.00	-4
2388.33	64.75	---	74.00	9.25	200.0	V	205.00	-4
2669.80	51.63	---	74.00	22.37	200.0	V	3.00	-3
2901.13	---	41.96	54.00	12.04	200.0	V	6.00	-3

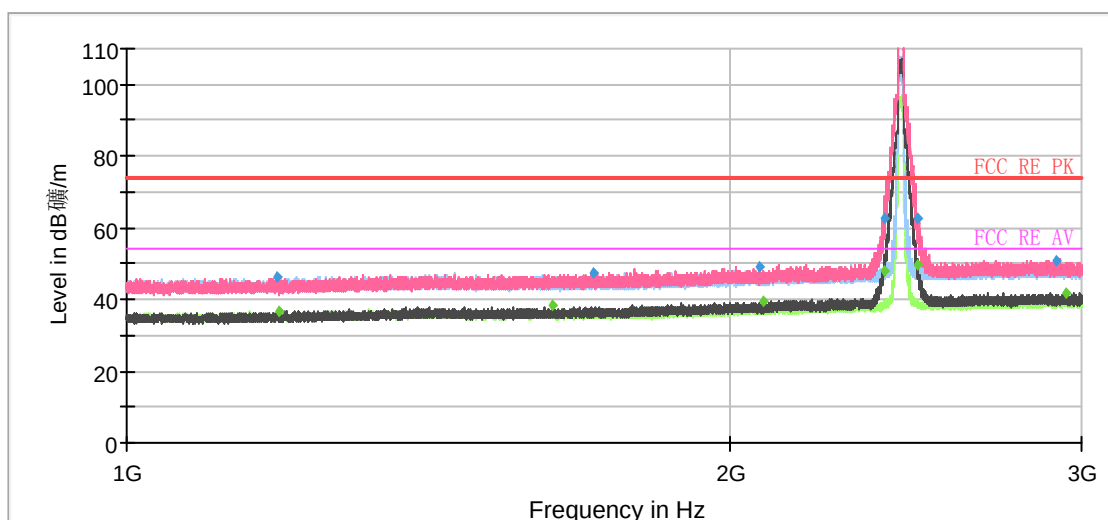
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3091.50	---	30.98	54.00	23.02	200.0	H	0.00	-13
3561.50	40.73	---	74.00	33.27	200.0	V	305.00	-13
5380.00	---	34.09	54.00	19.91	200.0	V	0.00	-7
5406.50	43.96	---	74.00	30.04	100.0	H	113.00	-7
5687.50	---	38.21	54.00	15.79	200.0	V	5.00	-7
7141.00	46.24	---	74.00	27.76	100.0	H	288.00	-4
9181.50	50.12	---	74.00	23.88	100.0	H	0.00	-2
9849.00	---	40.26	54.00	13.74	100.0	H	100.00	-1
10360.00	53.34	---	74.00	20.66	100.0	V	309.00	0
10360.00	---	51.14	54.00	2.86	100.0	V	309.00	0
13948.00	---	45.25	54.00	8.75	200.0	H	310.00	5
14821.50	55.64	---	74.00	18.36	200.0	V	187.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

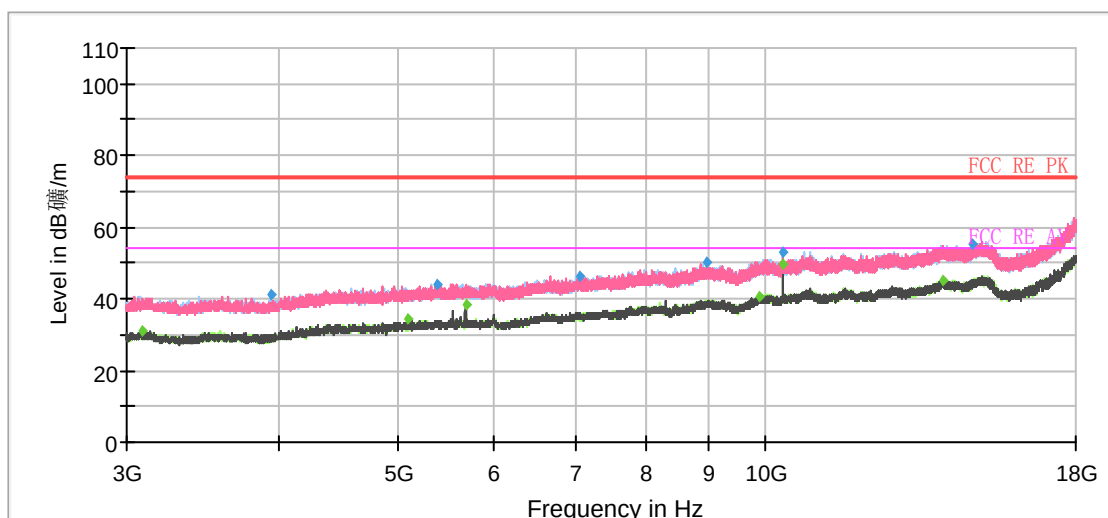
802.11ax (HE20) CH6


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1187.87	46.32	---	74.00	27.68	100.0	H	262.00	-9
1191.07	---	36.79	54.00	17.21	100.0	V	262.00	-9
1633.00	---	38.10	54.00	15.90	100.0	V	336.00	-6
1712.67	47.64	---	74.00	26.36	200.0	H	207.00	-6
2069.33	49.34	---	74.00	24.66	200.0	V	98.00	-5
2079.87	---	39.22	54.00	14.78	200.0	V	286.00	-5
2389.20	---	47.96	54.00	6.04	200.0	V	351.00	-4
2389.47	62.87	---	74.00	11.13	100.0	V	0.00	-4
2484.07	---	49.92	54.00	4.08	200.0	V	0.00	-4
2485.47	62.60	---	74.00	11.40	200.0	V	0.00	-4
2912.47	50.55	---	74.00	23.45	100.0	V	156.00	-3
2948.80	---	41.94	54.00	12.06	200.0	V	163.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

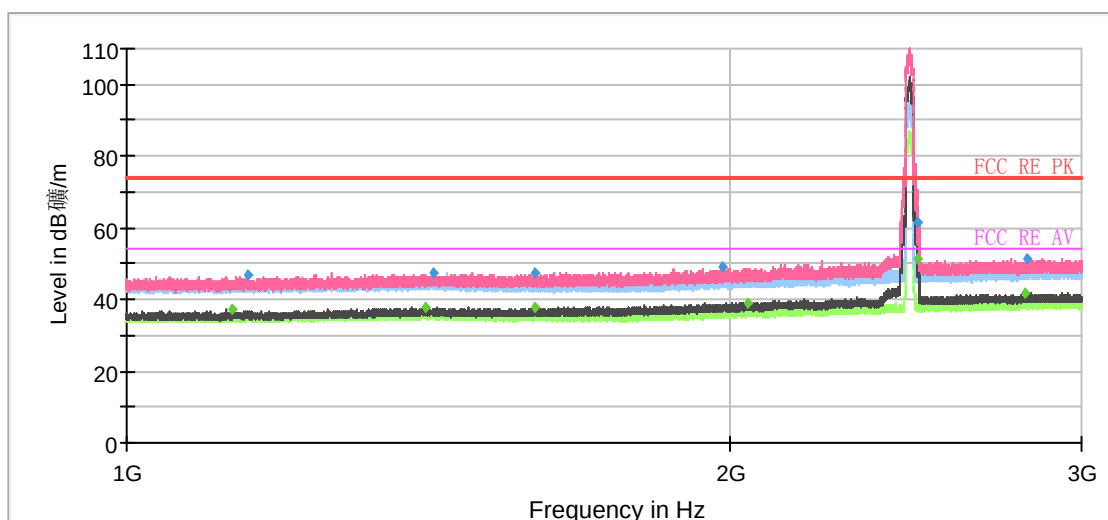


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3089.50	---	31.08	54.00	22.92	100.0	V	0.00	-13
3941.50	41.11	---	74.00	32.89	200.0	H	0.00	-12
5105.50	---	34.30	54.00	19.70	200.0	V	59.00	-8
5401.00	44.24	---	74.00	29.76	100.0	V	327.00	-7
5687.50	---	38.42	54.00	15.58	200.0	V	0.00	-7
7052.50	46.43	---	74.00	27.57	100.0	H	71.00	-3
8960.00	50.04	---	74.00	23.96	100.0	H	140.00	-2
9893.00	---	40.77	54.00	13.23	100.0	V	226.00	-1
10360.00	53.15	---	74.00	20.85	100.0	V	353.00	0
10360.00	---	49.86	54.00	4.14	100.0	V	353.00	0
13995.00	---	44.89	54.00	9.11	200.0	H	323.00	5
14818.00	55.15	---	74.00	18.85	100.0	V	358.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE20) CH11

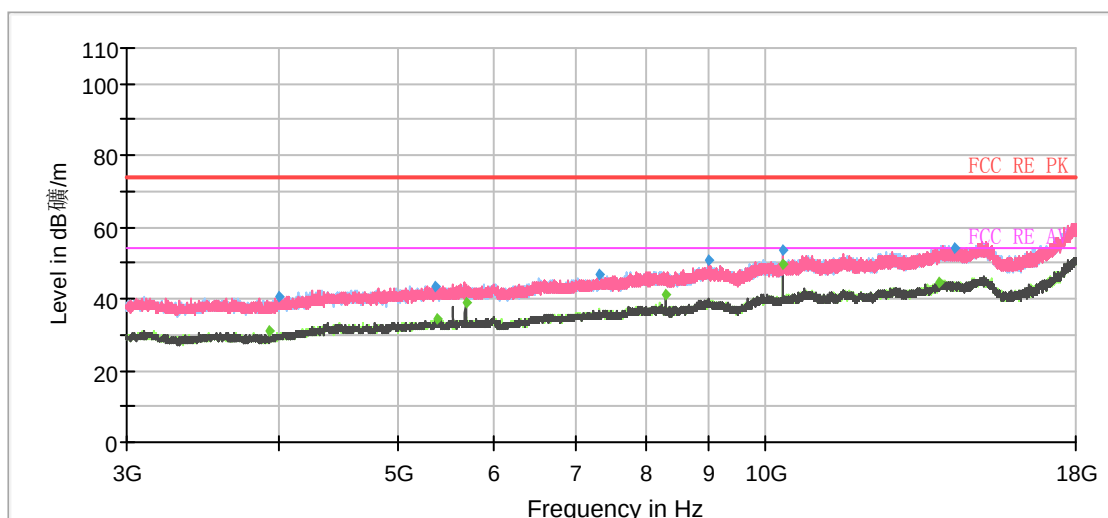


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1128.07	---	37.07	54.00	16.93	100.0	V	0.00	-9
1149.00	46.58	---	74.00	27.42	200.0	V	182.00	-9
1410.93	---	38.01	54.00	15.99	200.0	V	63.00	-7
1421.40	47.49	---	74.00	26.51	200.0	H	173.00	-7
1600.60	---	38.01	54.00	15.99	100.0	V	0.00	-6
1600.93	47.64	---	74.00	26.36	100.0	V	187.00	-6
1982.47	48.82	---	74.00	25.18	200.0	V	76.00	-5
2043.80	---	39.12	54.00	14.88	100.0	V	134.00	-5
2483.80	---	51.23	54.00	2.77	200.0	V	168.00	-4
2485.00	61.33	---	74.00	12.67	200.0	V	0.00	-4
2812.33	---	41.96	54.00	12.04	100.0	V	278.00	-3
2818.27	51.46	---	74.00	22.54	200.0	V	0.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

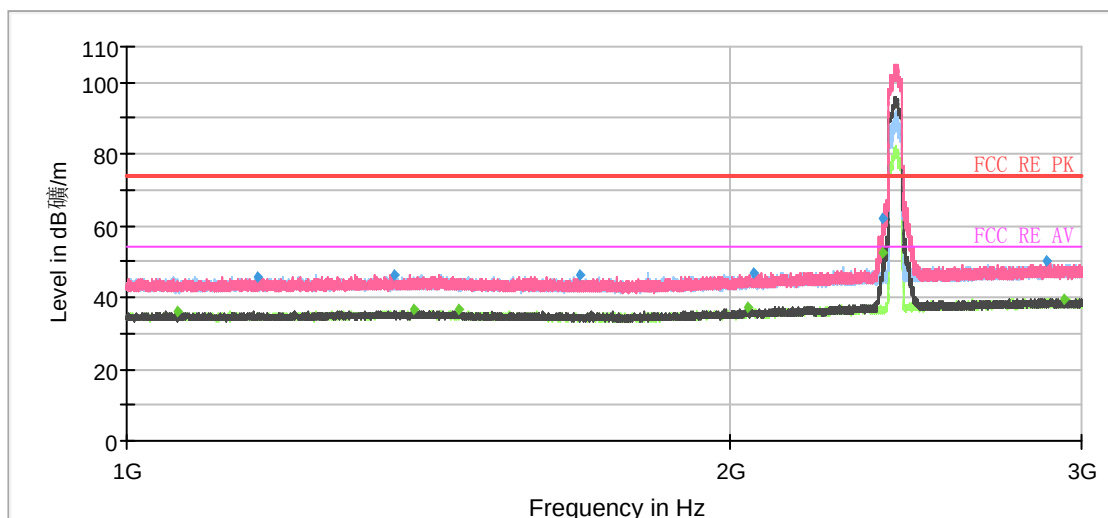


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3927.00	---	31.08	54.00	22.92	200.0	V	102.00	-12
3993.50	40.61	---	74.00	33.39	200.0	V	32.00	-11
5375.00	43.71	---	74.00	30.29	100.0	V	275.00	-7
5383.50	---	34.28	54.00	19.72	200.0	H	173.00	-7
5687.50	---	38.93	54.00	15.07	200.0	V	144.00	-7
7319.50	46.71	---	74.00	27.29	100.0	H	8.00	-3
8288.00	---	41.31	54.00	12.69	100.0	V	303.00	-3
8997.50	50.67	---	74.00	23.33	100.0	V	41.00	-2
10360.00	53.57	---	74.00	20.43	100.0	V	186.00	0
10360.00	---	49.49	54.00	4.51	100.0	V	186.00	0
13929.00	---	44.41	54.00	9.59	100.0	H	144.00	4
14335.00	54.12	---	74.00	19.88	100.0	H	214.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE40) CH3

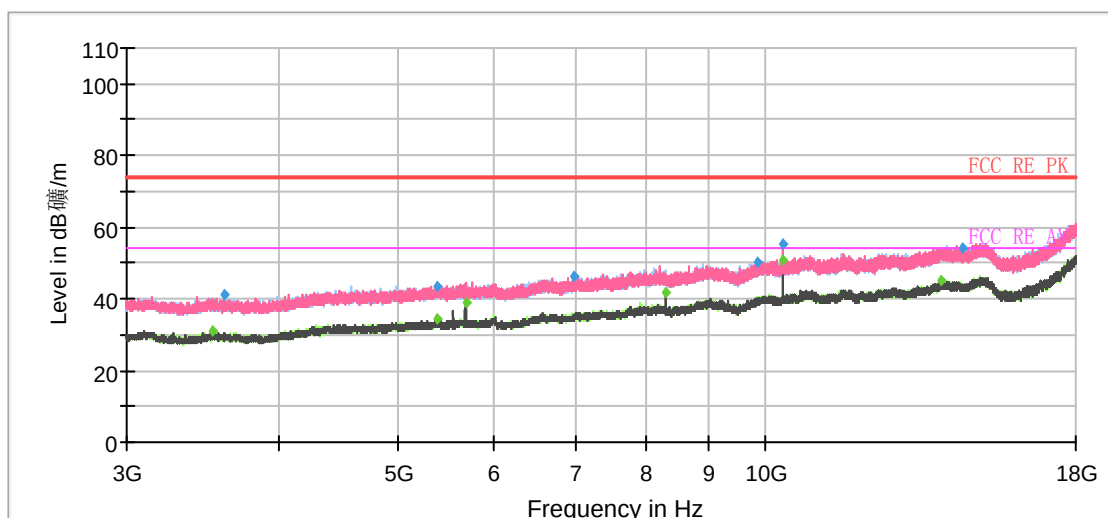


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.27	---	36.04	54.00	17.96	100.0	V	270.00	-9
1163.00	45.96	---	74.00	28.04	100.0	H	103.00	-9
1360.00	46.51	---	74.00	27.49	100.0	V	342.00	-7
1391.67	---	36.55	54.00	17.45	100.0	H	0.00	-7
1465.60	---	36.48	54.00	17.52	100.0	H	160.00	-7
1684.00	46.14	---	74.00	27.86	200.0	V	12.00	-6
2043.80	---	37.22	54.00	16.78	200.0	H	336.00	-5
2057.33	46.86	---	74.00	27.14	100.0	H	351.00	-5
2384.33	---	52.20	54.00	1.80	200.0	V	3.00	-4
2387.53	61.90	---	74.00	12.10	200.0	V	0.00	-4
2880.53	49.99	---	74.00	24.01	200.0	V	0.00	-3
2942.93	---	39.71	54.00	14.29	200.0	V	29.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

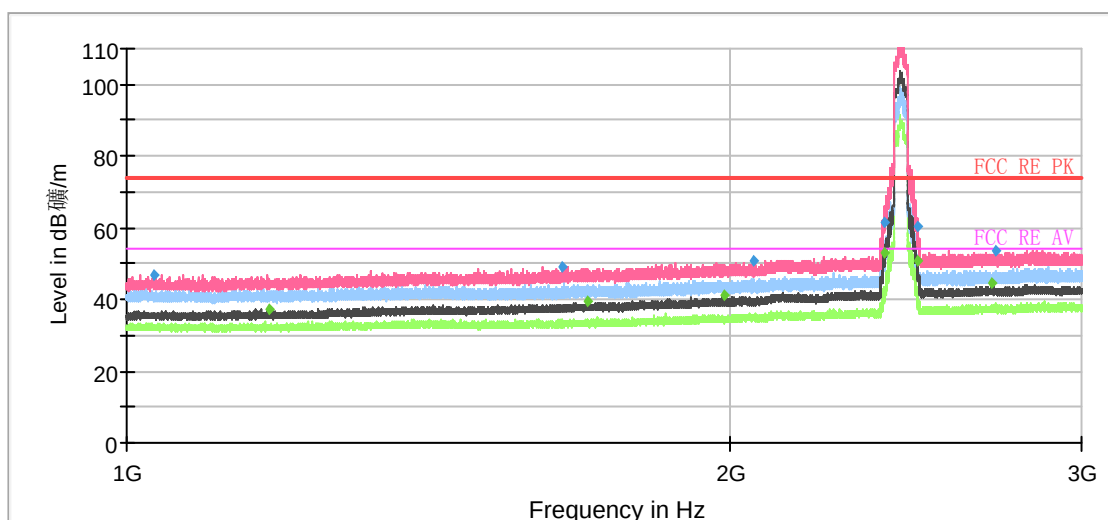


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3523.50	---	31.24	54.00	22.76	100.0	V	143.00	-13
3611.00	41.02	---	74.00	32.98	100.0	V	227.00	-13
5396.00	43.36	---	74.00	30.64	100.0	H	70.00	-7
5398.50	---	34.38	54.00	19.62	100.0	H	11.00	-7
5687.50	---	39.18	54.00	14.82	200.0	V	141.00	-7
6977.50	46.32	---	74.00	27.68	200.0	H	10.00	-3
8288.00	---	41.90	54.00	12.10	100.0	V	297.00	-3
9853.00	49.93	---	74.00	24.07	100.0	V	100.00	-1
10360.00	55.22	---	74.00	18.78	100.0	V	310.00	0
10360.00	---	50.83	54.00	3.17	100.0	V	310.00	0
13942.50	---	45.12	54.00	8.88	100.0	V	0.00	5
14534.50	53.92	---	74.00	20.08	100.0	V	346.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE40) CH6

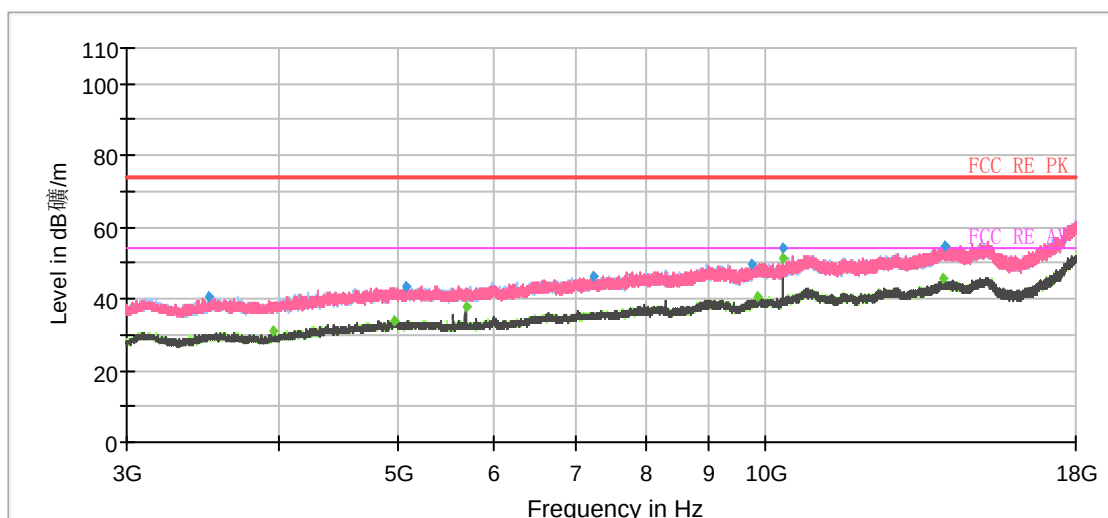


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1032.53	47.10	---	74.00	26.90	100.0	V	347.00	5
1179.07	---	37.20	54.00	16.80	200.0	V	196.00	6
1651.33	48.97	---	74.00	25.03	200.0	V	64.00	8
1698.33	---	39.29	54.00	14.71	200.0	V	77.00	8
1989.53	---	40.95	54.00	13.05	100.0	V	249.00	9
2055.60	50.59	---	74.00	23.41	100.0	V	352.00	10
2388.40	---	53.10	54.00	0.90	100.0	V	355.00	11
2388.53	61.45	---	74.00	12.55	100.0	V	359.00	11
2484.60	60.36	---	74.00	13.64	100.0	V	130.00	11
2484.60	---	50.89	54.00	3.11	100.0	V	130.00	11
2707.60	---	44.54	54.00	9.46	100.0	V	72.00	11
2717.73	53.57	---	74.00	20.43	100.0	V	339.00	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

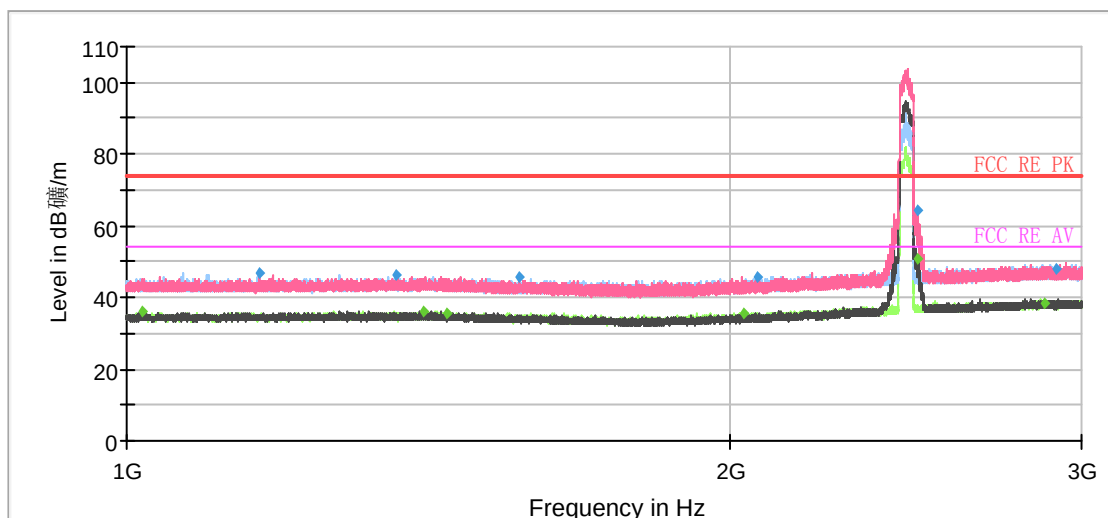


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3498.00	40.47	---	74.00	33.53	100.0	H	92.00	-13
3957.50	---	30.78	54.00	23.22	100.0	V	183.00	-11
4967.00	---	34.07	54.00	19.93	100.0	V	343.00	-8
5078.50	43.47	---	74.00	30.53	200.0	H	209.00	-8
5687.50	---	37.68	54.00	16.32	200.0	V	350.00	-7
7245.00	46.30	---	74.00	27.70	200.0	V	163.00	-4
9769.50	49.78	---	74.00	24.22	200.0	H	358.00	-2
9857.00	---	40.67	54.00	13.33	100.0	V	280.00	-1
10360.00	54.33	---	74.00	19.67	100.0	V	308.00	0
10360.00	---	51.17	54.00	2.83	100.0	V	308.00	0
14001.50	---	45.47	54.00	8.53	200.0	V	18.00	5
14060.50	54.95	---	74.00	19.05	100.0	V	354.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ax (HE40) CH9

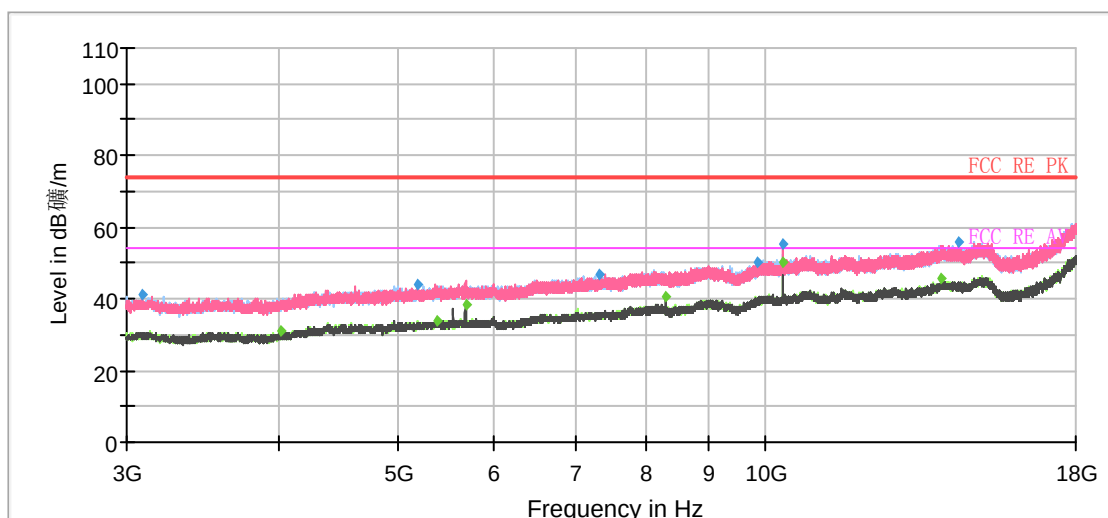


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1017.47	---	36.02	54.00	17.98	200.0	H	0.00	-10
1164.20	46.71	---	74.00	27.29	100.0	H	7.00	-9
1364.93	46.37	---	74.00	27.63	100.0	H	130.00	-7
1405.87	---	36.17	54.00	17.83	100.0	V	127.00	-7
1445.87	---	35.80	54.00	18.20	100.0	H	1.00	-7
1569.40	45.81	---	74.00	28.19	200.0	V	123.00	-7
2035.47	---	35.77	54.00	18.23	100.0	H	253.00	-5
2065.80	45.81	---	74.00	28.19	200.0	V	0.00	-5
2483.93	---	50.82	54.00	3.18	200.0	V	206.00	-4
2484.00	64.55	---	74.00	9.45	200.0	V	206.00	-4
2875.33	---	38.30	54.00	15.70	100.0	H	28.00	-3
2914.73	48.04	---	74.00	25.96	100.0	H	12.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

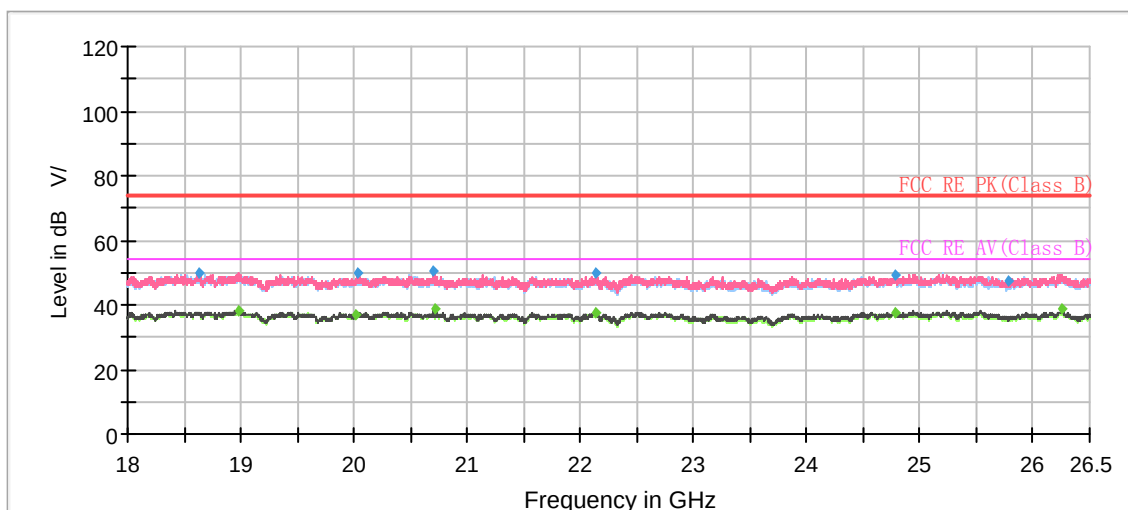


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3090.00	41.25	---	74.00	32.75	100.0	H	1.00	-13
4011.00	---	31.22	54.00	22.79	100.0	V	338.00	-11
5195.50	43.84	---	74.00	30.16	200.0	V	115.00	-8
5392.50	---	33.97	54.00	20.03	100.0	H	34.00	-7
5687.50	---	38.33	54.00	15.67	200.0	V	0.00	-7
7326.50	46.69	---	74.00	27.31	100.0	V	338.00	-3
8288.00	---	40.61	54.00	13.39	100.0	V	298.00	-3
9882.50	50.46	---	74.00	23.54	100.0	H	34.00	-1
10360.00	55.38	---	74.00	18.62	100.0	V	312.00	0
10360.00	---	50.12	54.00	3.88	100.0	V	312.00	0
13970.00	---	45.55	54.00	8.45	100.0	H	160.00	5
14451.50	56.02	---	74.00	17.98	100.0	V	326.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11ax (HE40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18626.88	49.67	---	74.00	24.33	100.0	V	343.00	-2
18979.63	---	38.36	54.00	15.64	200.0	V	12.00	-1
20016.63	---	37.01	54.00	16.99	100.0	V	33.00	-1
20035.75	49.55	---	74.00	24.45	100.0	V	95.00	-1
20703.00	50.63	---	74.00	23.37	100.0	V	33.00	0
20713.63	---	38.67	54.00	15.33	100.0	V	33.00	0
22134.19	49.74	---	74.00	24.26	100.0	H	202.00	1
22136.31	---	37.52	54.00	16.48	100.0	V	271.00	1
24786.19	---	37.57	54.00	16.43	100.0	V	251.00	3
24789.38	49.01	---	74.00	24.99	200.0	H	174.00	3
25781.75	47.09	---	74.00	26.91	200.0	H	289.00	3
26255.63	---	38.68	54.00	15.32	100.0	V	162.00	3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5.7. Conducted Emission

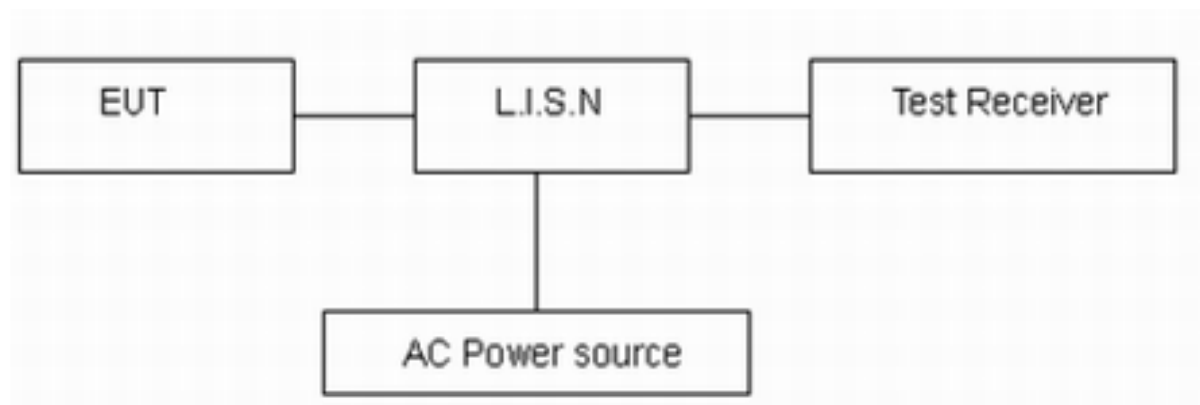
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line. The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

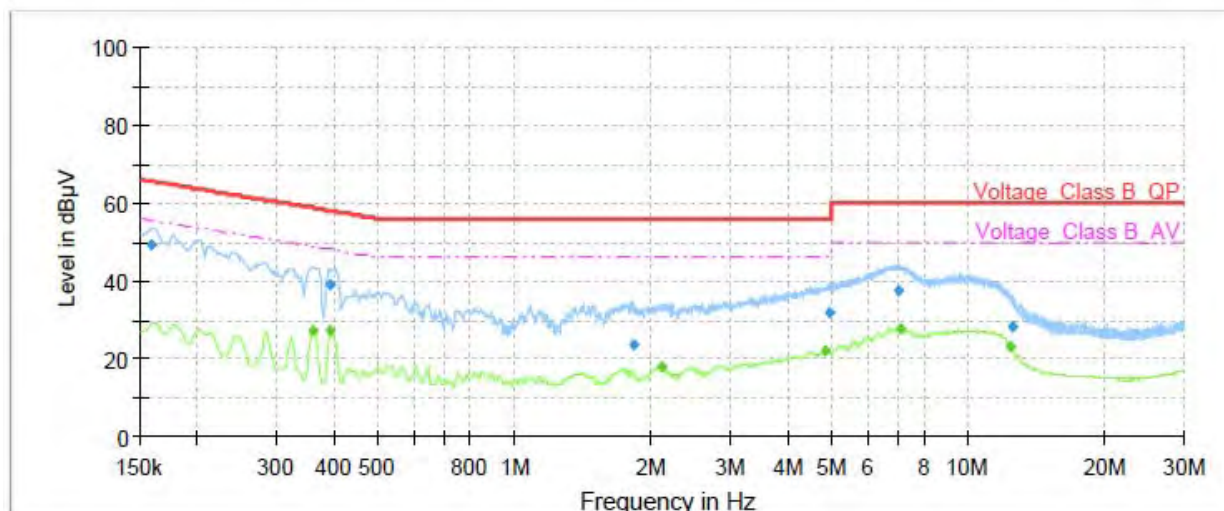
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

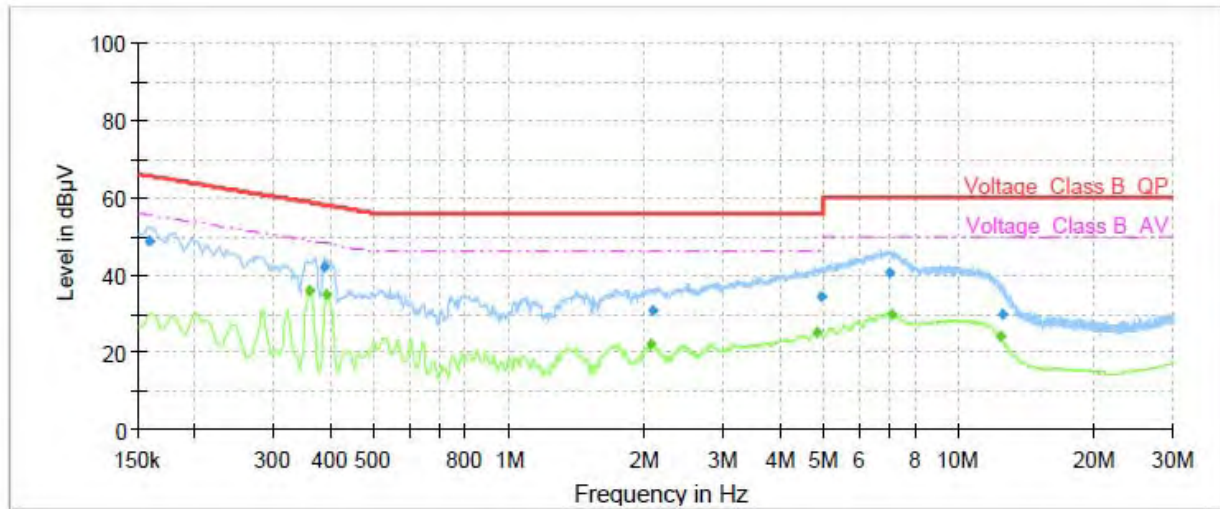
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G) with all channels, 802.11ax (HE40) CH6 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	49.24	---	65.52	16.28	1000.00	9.000	L1	ON	21
0.36	---	27.42	48.75	21.33	1000.00	9.000	L1	ON	21
0.39	39.00	---	58.05	19.05	1000.00	9.000	L1	ON	20
0.39	---	26.98	48.00	21.02	1000.00	9.000	L1	ON	20
1.83	23.41	---	56.00	32.59	1000.00	9.000	L1	ON	20
2.11	---	17.88	46.00	28.12	1000.00	9.000	L1	ON	20
4.86	---	22.30	46.00	23.70	1000.00	9.000	L1	ON	19
4.97	31.68	---	56.00	24.32	1000.00	9.000	L1	ON	19
7.01	37.32	---	60.00	22.68	1000.00	9.000	L1	ON	20
7.09	---	27.86	50.00	22.14	1000.00	9.000	L1	ON	20
12.45	---	22.97	50.00	27.03	1000.00	9.000	L1	ON	20
12.46	28.18	---	60.00	31.82	1000.00	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	48.59	---	65.52	16.93	1000.00	9.000	N	ON	21
0.36	---	36.06	48.75	12.69	1000.00	9.000	N	ON	21
0.39	41.87	---	58.10	16.23	1000.00	9.000	N	ON	21
0.39	---	34.96	48.00	13.04	1000.00	9.000	N	ON	21
2.06	---	22.01	46.00	23.99	1000.00	9.000	N	ON	20
2.09	30.69	---	56.00	25.31	1000.00	9.000	N	ON	20
4.85	---	25.32	46.00	20.68	1000.00	9.000	N	ON	19
4.94	34.59	---	56.00	21.41	1000.00	9.000	N	ON	19
7.00	40.27	---	60.00	19.73	1000.00	9.000	N	ON	20
7.08	---	30.00	50.00	20.00	1000.00	9.000	N	ON	20
12.43	---	23.90	50.00	26.10	1000.00	9.000	N	ON	20
12.50	29.52	---	60.00	30.48	1000.00	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	R&S	CMW270	100673	2021-05-15	2022-05-14
Power probe	R&S	NRP18S	101954	2021-05-15	2022-05-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2021-12-12	2022-12-11
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
EMI Test Receiver	R&S	ESR	102389	2021-06-04	2022-06-03
Spectrum Analyzer	R&S	FSV40	100816	2021-05-15	2022-05-14
TRILOG Broadband Antenna	SCHWARZBEC K	VULB 9163	1023	2020-05-05	2023-05-04
Horn Antenna	R&S	HF907	102723	2020-08-11	2023-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	9.26.01	/	/

*****END OF REPORT *****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.