



RF TEST REPORT

Applicant	ZTE Corporation		
FCC ID	SRQ-A31PLUS2		
Product	LTE/WCDMA/GSM(GPRS) Multi-Mode		
Product	Digital Mobile Phone		
Model	ZTE Blade A31 Plus		
Report No.	R2110A0943-R5		
Issue Date	November 24, 2021		

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Peng Tao

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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: August 3, 2021 ~ August 5, 2021				
Date of Sample Received: August 1, 2021				
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.				

Summary of measurement results

ZTE Blade A31 Plus (Report No.: R2110A0943-R5) is a variant model of ZTE Blade A31 Plus (Report No.: R2108A0671-R5). This product is only added LTE Band 12/17, changed Software Version and changed to dual card slots. Test values partial duplicated from Original for variant. There is no test for variant in this report. The detailed product change description please refers to the Difference Declaration Letter.

1. Test Laboratory

1.1. Notes of the test report

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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			
Country:	P. R. China			
Contact:	Xu Kai			
Contact: Telephone:	Xu Kai +86-021-50791141/2/3			
Telephone:	+86-021-50791141/2/3			



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

2.2. General information

EUT Description			
Model	ZTE Blade A31 Plus		
IMEI	IMEI 1: 866591060000396 IMEI 2: 866591060001543		
Hardware Version	z1kA		
Software Version	GEN_LA_A31_Plus_V1.0		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	1.1 dBi		
additional beamforming gain	NA		
Test Mode	802.11b, 802.11g, 802.11n(HT20) Bluetooth LE V5.0		
Modulation Type	802.11b: DSSS 802.11g/n(HT20): OFDM Bluetooth LE: GFSK		
Max. Conducted Power	Wi-Fi 2.4G: 16.93dBm Bluetooth LE: 5.75 dBm		
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz Bluetooth LE: 2402 ~2480 MHz		
EUT Accessory			
Adapter 1	Manufacturer: Shenzhen Ruijing Industrial Co.,Ltd Model: STC-A51D-Z		
Adapter 2	Manufacturer: HUIZHOU PUAN ELECTRONICS CO.,LTD Model: STC-A51D-Z		

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Patton	Manufacturer: Guangdong Fenghua New Energy Co.,Ltd.
Battery	Model: Li3830T43P8h486375
Fornhono 1	Manufacturer: Shenzhen FDC Electronics Co. ,Ltd.
Earphone 1	Model: DEM-8A
	Manufacturer: JUWEI ELECTRONICS CO., LTD
Earphone 2	Model: JWEP1091-Z01
USB Cable 1	Manufacturer: Dongguan Guojun Plastic Electronic Co.,Ltd
	Model: USB-MU5-B-70-M-L
USB Cable 2	Manufacturer: Shenzhen Yihuaxing Electronic Co., Ltd.
	Model: USB-MU5-B-70-M-L
Note: 1 The FLIT is sent fr	om the applicant to TA and the information of the FUT is declared by

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, Earphone and USB Cable, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 1, Earphone 2 and USB Cable 1) 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 (2020) Radio Frequency Devices

ANSI C63.10 (2013)

Reference standard: KDB 558074 D01 15.247 Meas Guidance v05r02

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	
Bluetooth(Low Energy)	1Mbps	
802.11b	1 Mbps	
802.11g	6 Mbps	
802.11n HT20	MCS0	



5. Test Case Results

5.1. Maximum output power

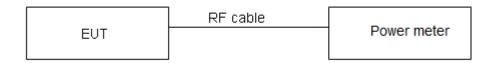
Ambient condition

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.

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."



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

Power Index						
Channel 802.11b 802.11g 802.11n HT20						
CH1	14	12	10			
CH6	14	12	10			
CH11	14	12	10			

Test Mode	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11b	1.00	1.00	1.00	NA
802.11g	1.36	1.39	0.97	0.11
802.11n HT20	1.27	1.31	0.97	0.12
Bluetooth LE	1.63	1.88	0.866	0.624
Note: when Duty cycle≥0.98, Duty cycle correction Factor not required.				

Test Mode	Carrier frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
	2412	16.11	16.11	30	PASS
802.11b	2437	16.93	16.93	30	PASS
	2462	16.28	16.28	30	PASS
	2412	11.52	11.63	30	PASS
802.11g	2437	14.35	14.46	30	PASS
	2462	12.09	12.20	30	PASS
	2412	11.16	11.28	30	PASS
802.11n HT20	2437	13.18	13.30	30	PASS
	2462	11.47	11.59	30	PASS
Bluetooth (Low Energy)	2402	4.13	4.75	30	PASS
	2440	4.68	5.30	30	PASS
	2480	5.13	5.75	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					



5.2. 99% Bandwidth and 6dB Bandwidth

Ambient condition

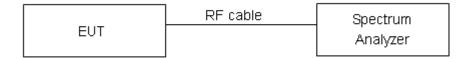
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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. Dector=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 \geq 500 kHz

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:

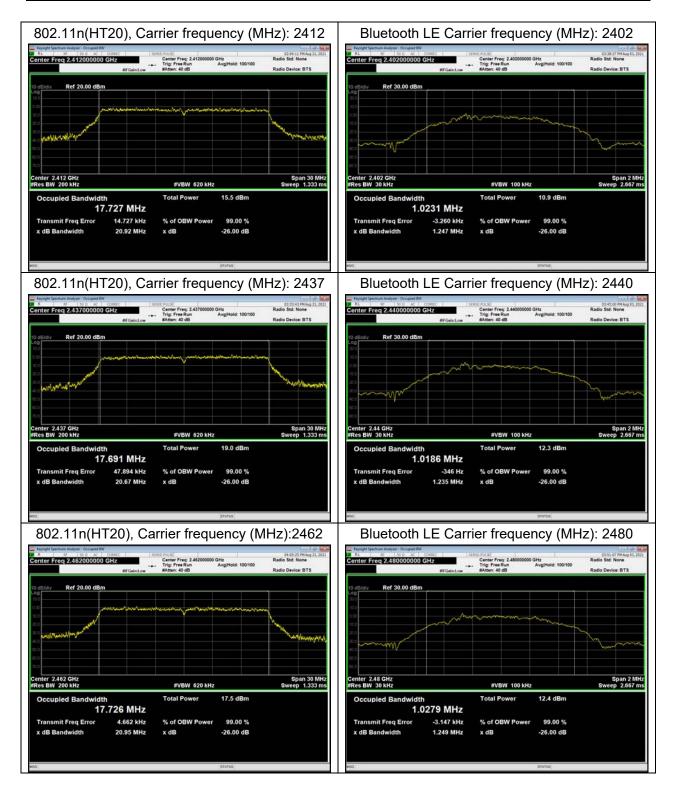
Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
	2412	12.4260	9.125	500	PASS
802.11b	2437	12.2050	9.112	500	PASS
	2462	12.2670	9.530	500	PASS
	2412	16.7300	16.370	500	PASS
802.11g	2437	16.7680	16.130	500	PASS
	2462	16.7780	16.370	500	PASS
	2412	17.7270	17.570	500	PASS
802.11n HT20	2437	17.6910	17.580	500	PASS
	2462	17.7260	17.310	500	PASS
	2402	1.0231	0.655	500	PASS
Bluetooth (Low Energy)	2440	1.0186	0.655	500	PASS
(2011 2110:93)	2480	1.0279	0.657	500	PASS



99%bandwidth















5.3. Band Edge

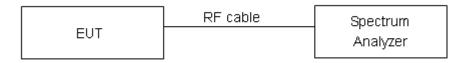
Ambient condition

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."

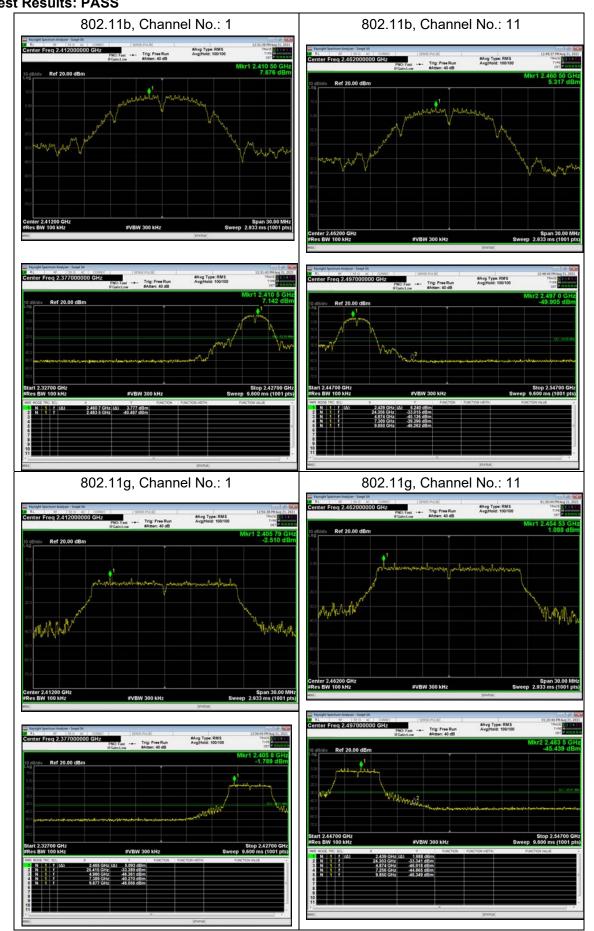
Measurement Uncertainty

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	

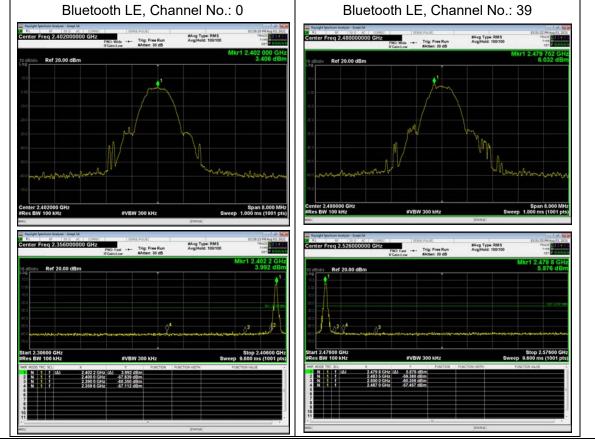
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Test Results: PASS



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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.

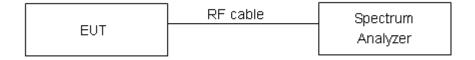
Method AVGPSD-2 was used for this test.

- a) Measure the duty cycle(D)of the transmitter output signal as described in 11.6
- b) Set instrument center frequency to DTS channel center frequency
- c)Set span to at least 1.5 times the OBW
- d) Set RBW to:3kHz≤RBW≤100Kh
- e) Set VBW≥[3x RBW]
- f)Detector= power averaging(rms) or sample detector (when rms not available)
- g) Ensure that the number of measurement points in the sweep 2[2 X span/RBW]
- h) Sweep time =auto couple
- i) Do not use sweep triggering; allow sweep to "free run"
- j) Employ trace averaging(rms) mode over a minimum of 100 traces
- k) Use the peak marker function to determine the maximum amplitude level

I) 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

m) If measured value exceeds requirement specified by regulatory agency then reduce RBW(but o 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)

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 ≤ 8 dBm / 3kHz

Measurement Uncertainty

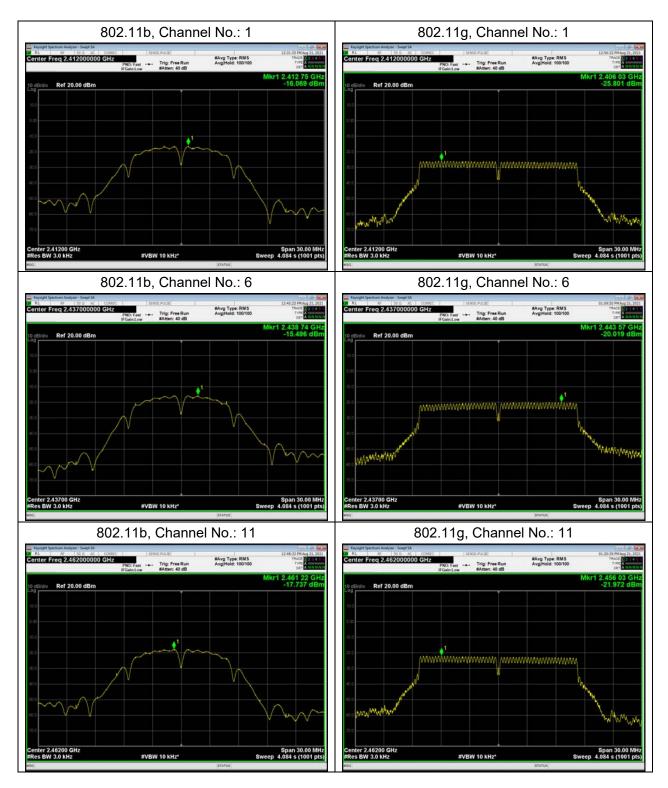
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 0.75dB.

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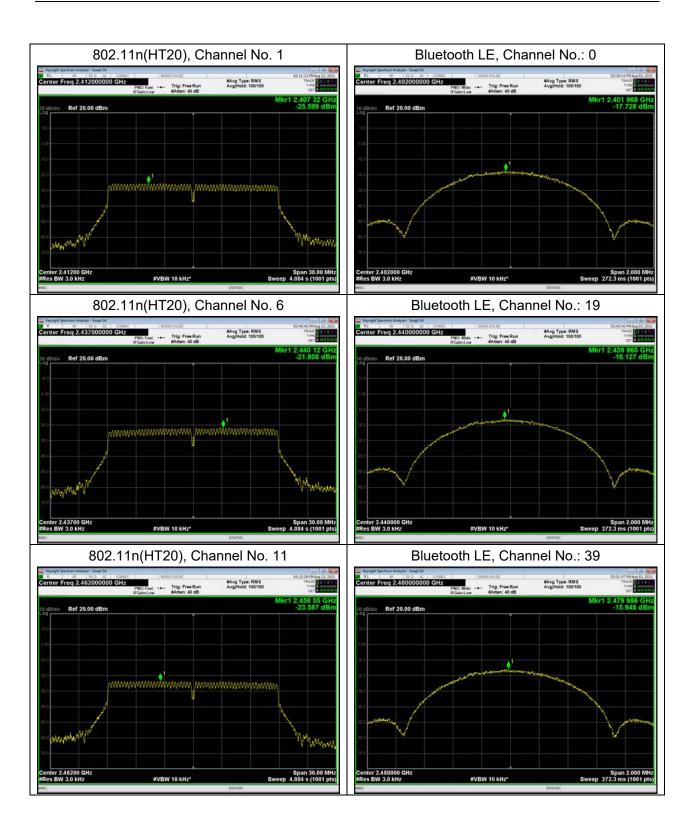
Test Results:

Test Mode	Channel Number	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
	1	-16.07	-16.07	8	PASS
802.11b	6	-15.50	-15.50	8	PASS
	11	-17.74	-17.74	8	PASS
	1	-25.80	-25.69	8	PASS
802.11g	6	-20.02	-19.91	8	PASS
	11	-21.97	-21.86	8	PASS
	1	-25.60	-25.48	8	PASS
802.11n HT20	6	-21.81	-21.69	8	PASS
	11	-23.59	-23.47	8	PASS
	0	-17.73	-17.10	8	PASS
Bluetooth (Low Energy)	19	-16.13	-15.50	8	PASS
	39	-15.95	-15.32	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					





RF Test Report





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
	2412	7.73	-22.28
802.11b	2437	7.02	-22.98
	2462	5.25	-24.75
	2412	-2.11	-32.11
802.11g	2437	3.95	-26.05
	2462	0.78	-29.22
000 11-	2412	-2.26	-32.26
802.11n HT20	2437	2.12	-27.88
HT20	2462	0.67	-29.33
Divetest	2402	3.88	-26.12
Bluetooth (Low Energy)	2440	5.73	-24.28
(LOW Energy)	2480	5.96	-24.04

Measurement Uncertainty

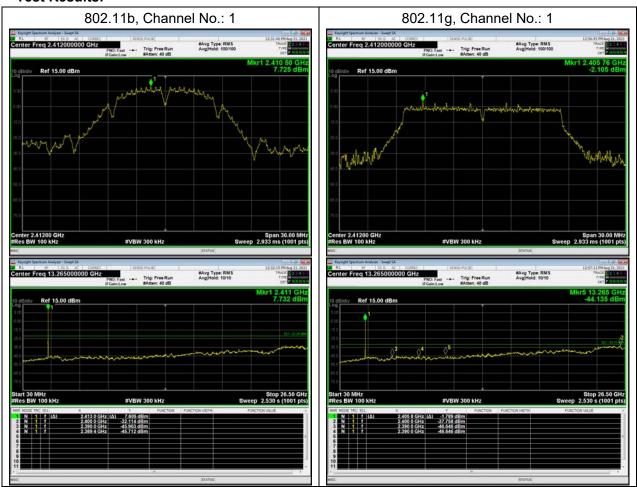
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

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

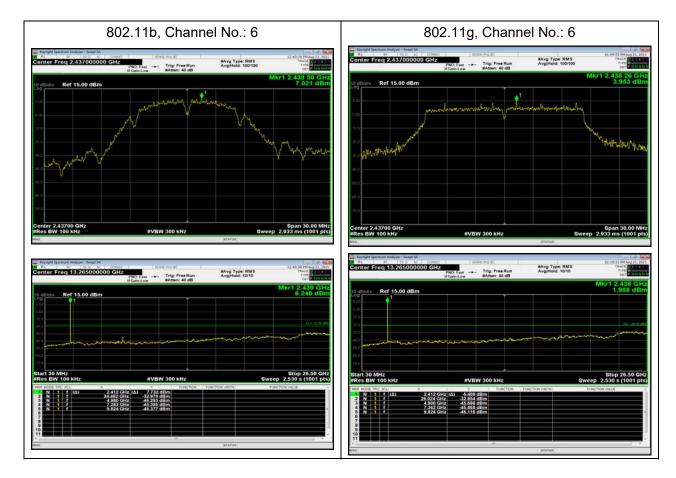
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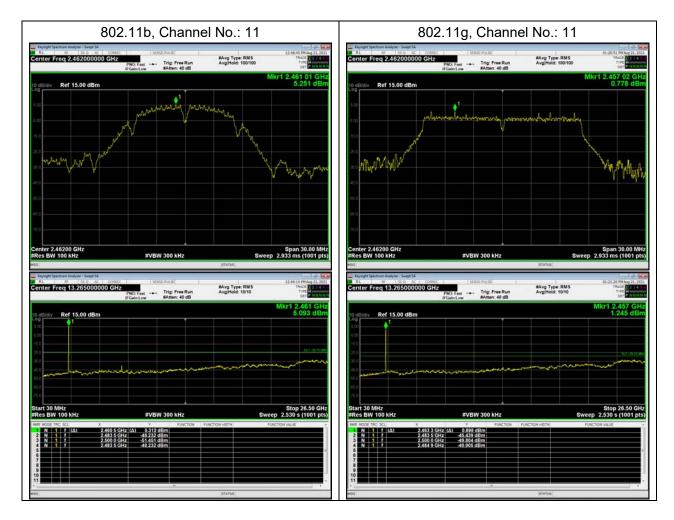
Test Results:



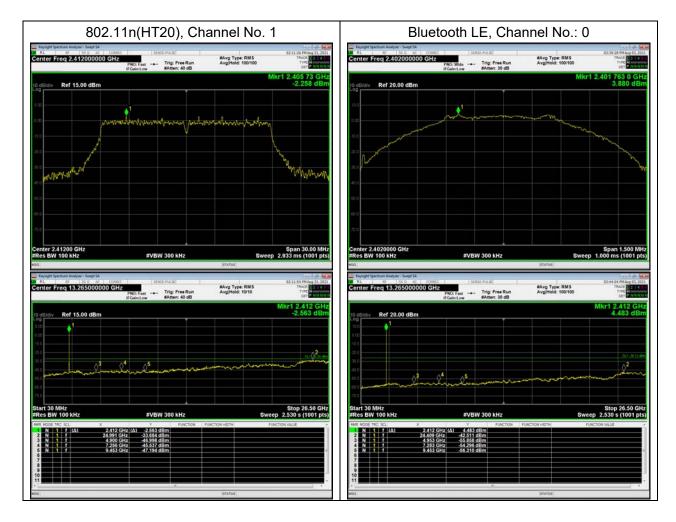




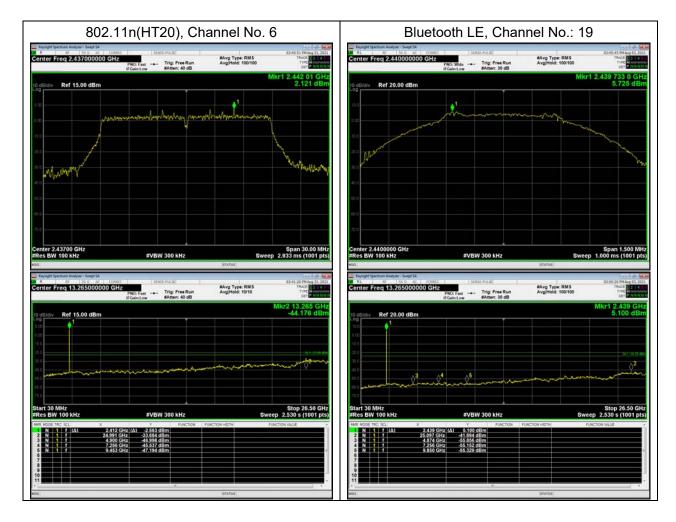




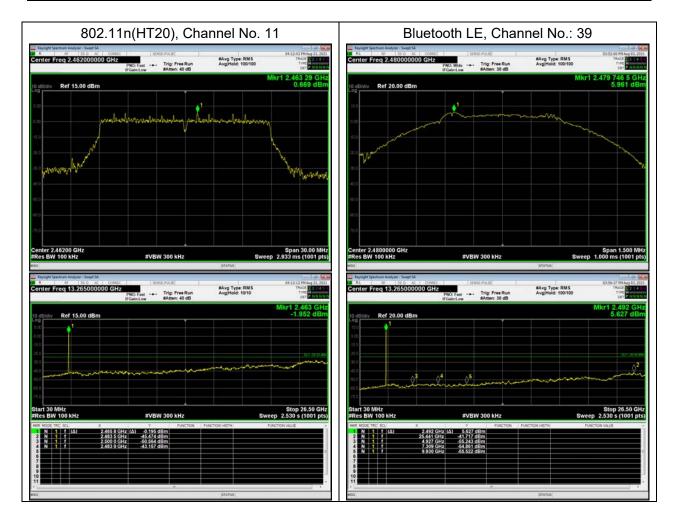














5.6. Unwanted Emission

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.

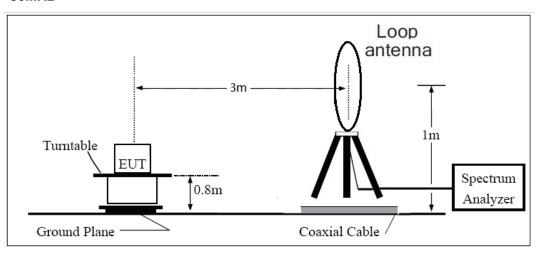
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

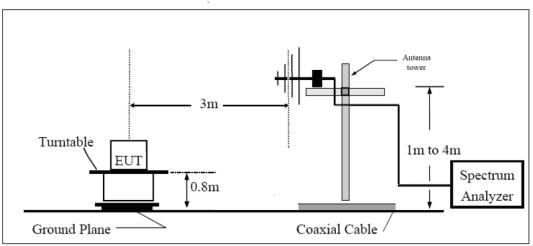
The test is in transmitting mode.



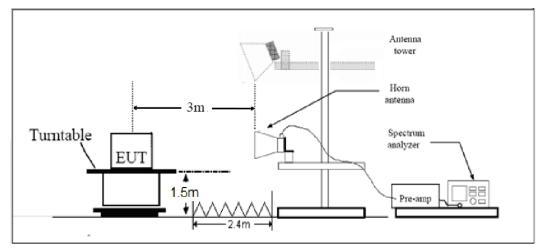
Test setup 9KHz ~ 30MHz



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)	1
0.490–1.705	24000/F(kHz)	1
1.705–30.0	30	1
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:

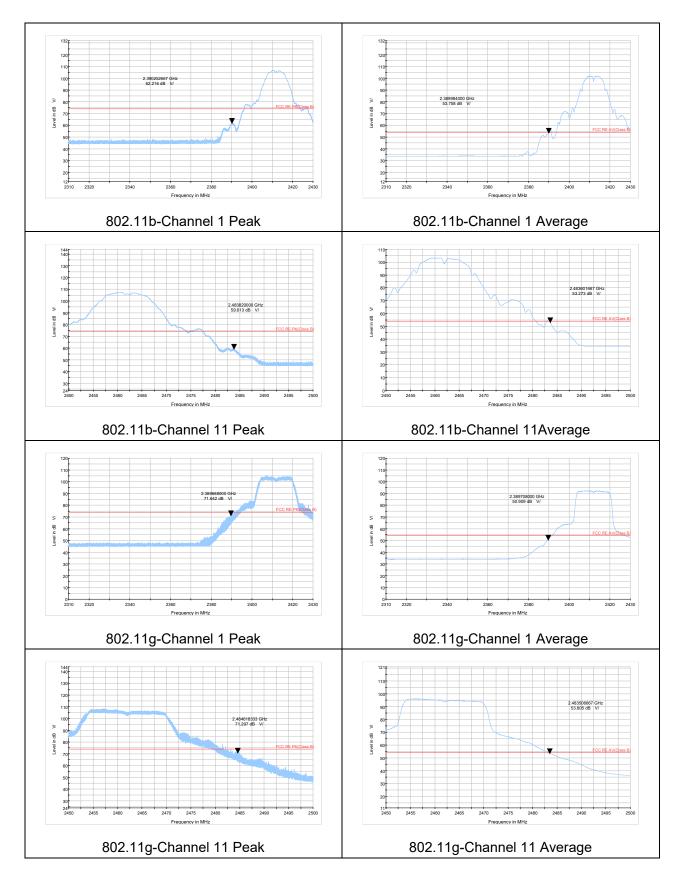
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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			

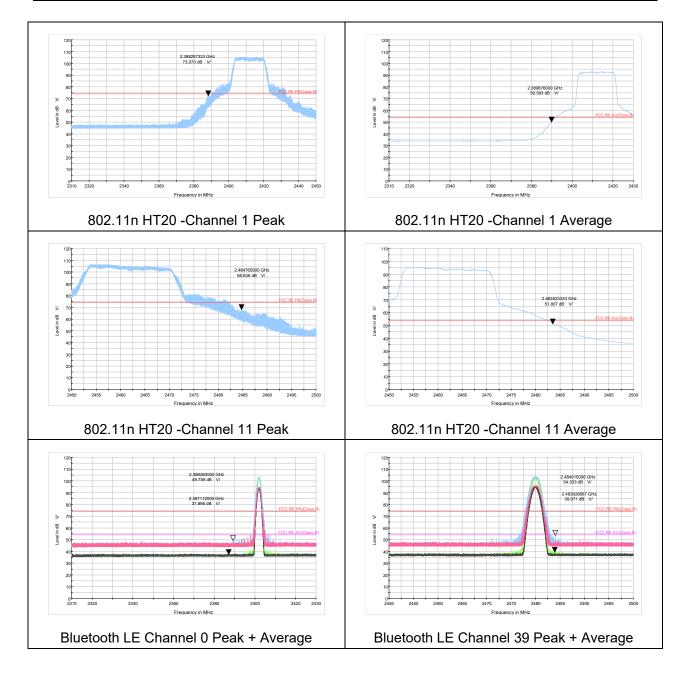
Measurement Uncertainty

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:







Result of RE

Test result

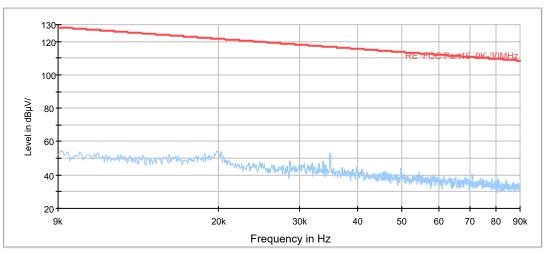
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

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.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

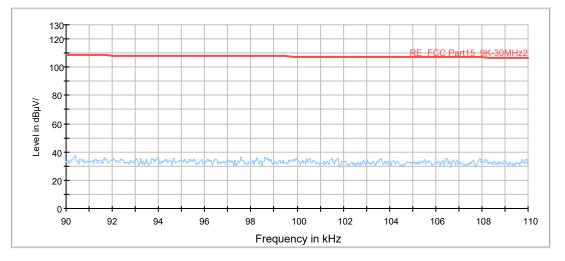
A font (Level in $dB\mu V/$) in the test plot =(level in $dB\mu V/m$)

Continuous TX mode:

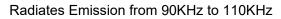


FCC RE 9K-90KHz AV

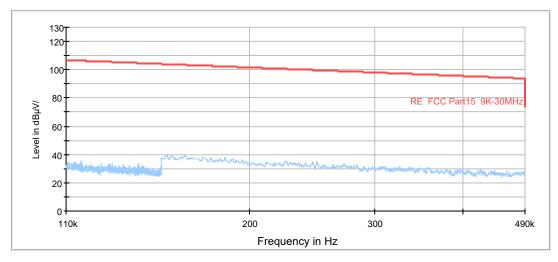
Radiates Emission from 9KHz to 90KHz



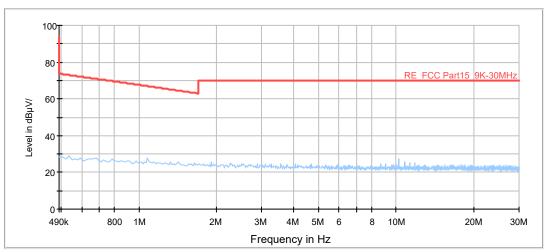
FCC RE 90K-110KHz QP



FCC RE 110K-490KHz AV

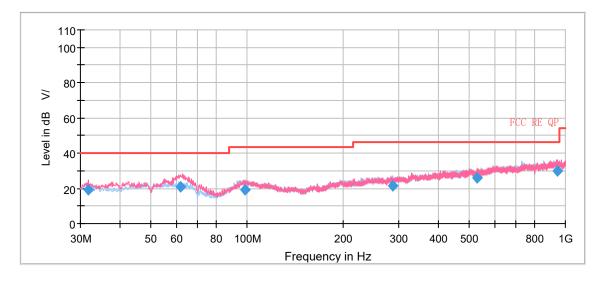


Radiates Emission from 110KHz to 490KHz



FCC RE 490K-30MHz QP

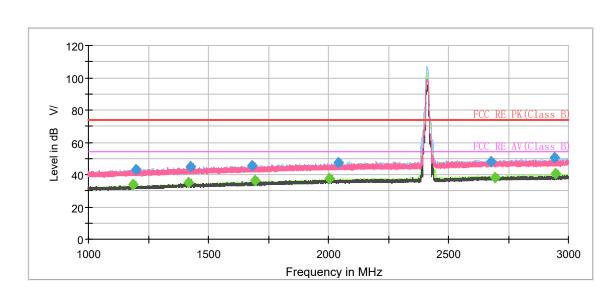
Radiates Emission from 490KHz to 30MHz

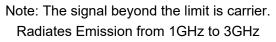


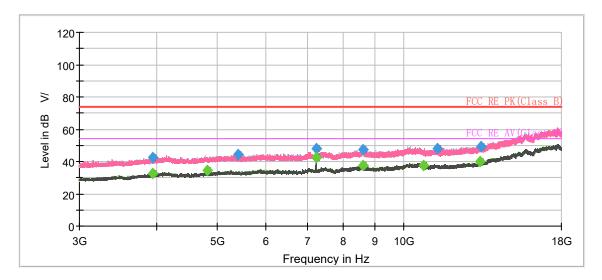
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.738750	19.10	100.0	V	225.0	-4.6	20.90	40.00
62.058750	21.09	175.0	V	308.0	-6.0	18.91	40.00
98.660000	19.44	125.0	V	271.0	-6.0	24.06	43.50
287.406250	21.29	225.0	Н	10.0	-3.8	24.71	46.00
528.851500	25.85	175.0	Н	178.0	0.8	20.15	46.00
944.513750	30.00	225.0	V	28.0	6.0	16.00	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain) 2. Margin = Limit – Quasi-Peak RF Test Report 802.11b CH1





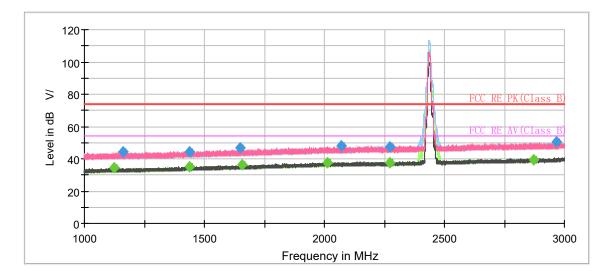


Radiates Emission from 3GHz to 18GHz

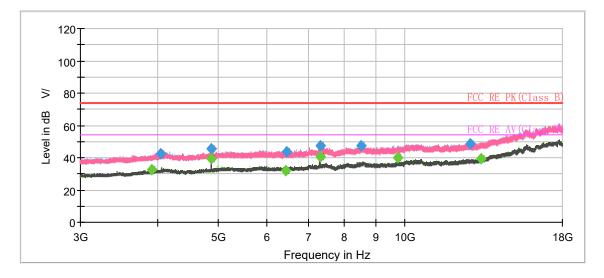


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1186.533333		33.54	54.00	20.46	100.0	V	134.0	-7.4
1198.933333	43.19		74.00	30.81	100.0	Н	73.0	-7.3
1416.466667		34.83	54.00	19.17	100.0	Н	60.0	-6.1
1425.333333	44.88		74.00	29.12	100.0	Н	323.0	-6.0
1681.000000	45.51		74.00	28.49	100.0	Н	171.0	-4.6
1695.400000		36.08	54.00	17.92	200.0	Н	114.0	-4.5
2004.733333		37.79	54.00	16.21	100.0	Н	80.0	-2.6
2042.266667	47.35		74.00	26.65	100.0	Н	272.0	-2.5
2677.400000	47.87		74.00	26.13	100.0	Н	0.0	0.5
2692.333333		38.05	54.00	15.95	100.0	Н	317.0	0.5
2942.533333	50.41		74.00	23.59	100.0	Н	139.0	1.5
2946.733333		40.47	54.00	13.53	200.0	Н	8.0	1.5
7235.000000		42.63	54.00	11.37	100.0	V	91.0	1.2





Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

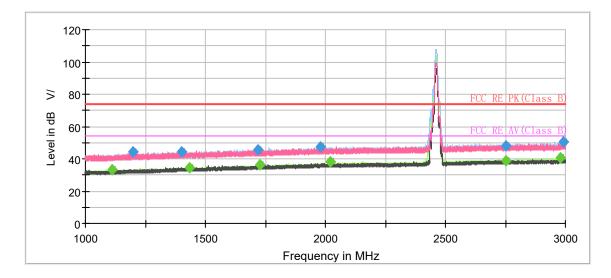


Radiates Emission from 3GHz to 18GHz

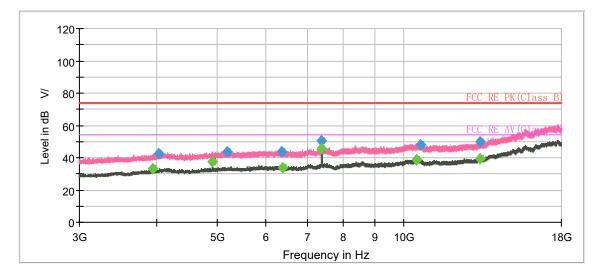


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1123.733333		34.41	54.00	19.59	100.0	V	65.0	-7.7
1160.333333	44.52		74.00	29.48	100.0	Н	54.0	-7.5
1438.666667		35.03	54.00	18.97	200.0	V	214.0	-5.9
1439.533333	44.48		74.00	29.52	200.0	V	240.0	-5.9
1650.600000	46.51		74.00	27.49	100.0	V	0.0	-4.8
1657.533333		36.19	54.00	17.81	100.0	V	120.0	-4.7
2013.533333		37.60	54.00	16.40	200.0	V	141.0	-2.6
2071.866667	47.89		74.00	26.11	200.0	V	174.0	-2.4
2270.666667		37.37	54.00	16.63	100.0	Н	311.0	-1.6
2273.866667	47.12		74.00	26.88	100.0	Н	332.0	-1.6
2872.600000		39.51	54.00	14.49	100.0	V	32.0	1.2
2968.000000	50.21		74.00	23.79	100.0	Н	332.0	1.7
7312.000000		40.37	54.00	13.63	200.0	V	157.0	1.4

802.11b CH11



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

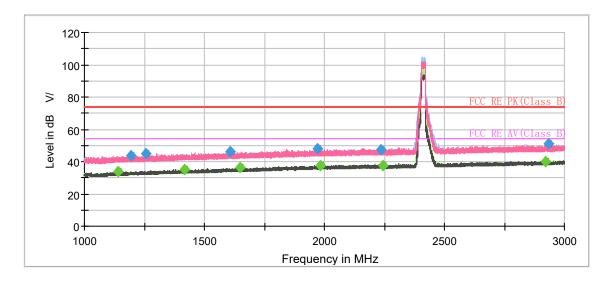


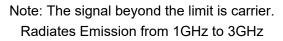
Radiates Emission from 3GHz to 18GHz

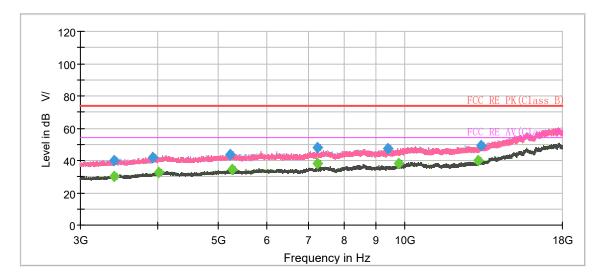


Frequency (MHz)	MaxPeak (dB	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1113.600000		33.29	54.00	20.71	200.0	Н	0.0	-7.7
1198.400000	44.43		74.00	29.57	100.0	V	199.0	-7.3
1400.933333	44.22		74.00	29.78	200.0	Н	0.0	-6.2
1432.200000		34.62	54.00	19.38	100.0	Н	326.0	-6.0
1720.666667	45.72		74.00	28.28	200.0	V	153.0	-4.4
1727.733333		36.52	54.00	17.48	200.0	Н	146.0	-4.3
1978.200000	47.19		74.00	26.81	100.0	V	43.0	-2.8
2022.200000		37.85	54.00	16.15	200.0	Н	119.0	-2.6
2752.200000	47.88		74.00	26.12	200.0	V	238.0	0.8
2752.666667		38.48	54.00	15.52	200.0	Н	0.0	0.8
2978.600000		40.45	54.00	13.55	200.0	Н	0.0	1.8
2991.400000	50.57		74.00	23.43	200.0	Н	93.0	1.9
7387.000000		45.60	54.00	8.40	500.0	100.0	V	87.0

802.11g CH1





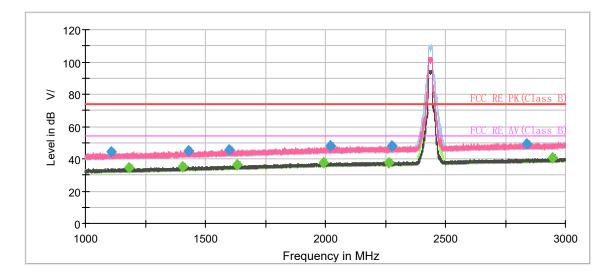


Radiates Emission from 3GHz to 18GHz

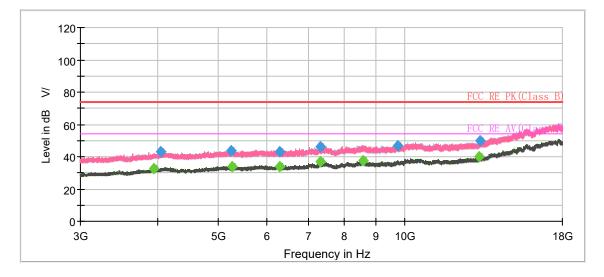


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1138.800000		33.97	54.00	20.03	100.0	V	218.0	-7.6
1193.466667	43.66		74.00	30.34	200.0	Н	118.0	-7.3
1255.200000	44.75		74.00	29.25	100.0	Н	104.0	-7.0
1415.733333		35.02	54.00	18.98	100.0	Н	0.0	-6.1
1606.333333	46.00		74.00	28.00	100.0	Н	30.0	-5.0
1648.000000		36.59	54.00	17.41	100.0	Н	298.0	-4.8
1972.533333	47.72		74.00	26.28	200.0	Н	244.0	-2.8
1982.000000		37.75	54.00	16.25	200.0	Н	326.0	-2.8
2236.133333	47.18		74.00	26.82	200.0	V	32.0	-1.7
2243.800000		37.61	54.00	16.39	100.0	Н	285.0	-1.7
2923.066667		39.95	54.00	14.05	200.0	Н	171.0	1.3
2931.933333	51.04		74.00	22.96	200.0	Н	231.0	1.4

802.11g CH6



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

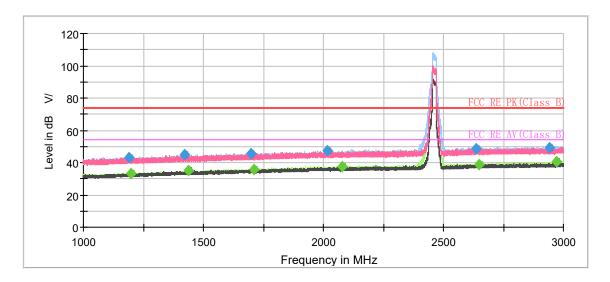


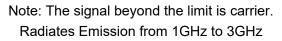
Radiates Emission from 3GHz to 18GHz

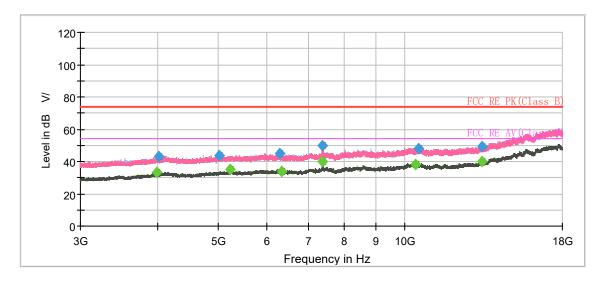


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1109.400000	44.02		74.00	29.98	200.0	V	89.0	-7.7
1181.266667		34.54	54.00	19.46	200.0	V	62.0	-7.4
1405.400000		35.12	54.00	18.88	200.0	V	194.0	-6.1
1427.733333	44.82		74.00	29.18	200.0	V	174.0	-6.0
1599.266667	45.81		74.00	28.19	100.0	V	358.0	-5.0
1632.733333		36.04	54.00	17.96	100.0	Н	83.0	-4.9
1993.000000		37.67	54.00	16.33	200.0	Н	104.0	-2.7
2019.133333	47.79		74.00	26.21	200.0	V	140.0	-2.6
2265.133333		37.78	54.00	16.22	200.0	Н	98.0	-1.6
2278.266667	47.78		74.00	26.22	200.0	Н	345.0	-1.6
2837.533333	49.30		74.00	24.70	200.0	V	200.0	1.1
2947.466667		40.31	54.00	13.69	100.0	V	283.0	1.5







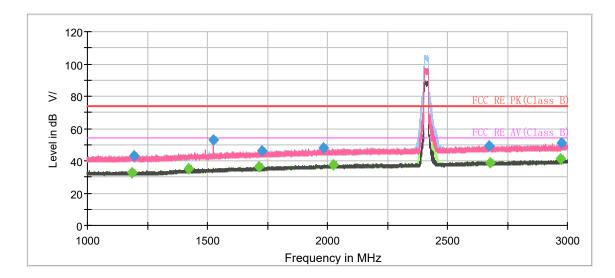


Radiates Emission from 3GHz to 18GHz

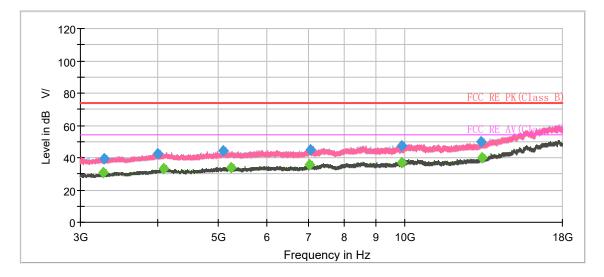


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1191.933333	43.08		74.00	30.92	200.0	Н	313.0	-7.3
1199.400000		33.37	54.00	20.63	200.0	V	132.0	-7.3
1422.533333	44.75		74.00	29.25	100.0	Н	91.0	-6.0
1438.133333		34.87	54.00	19.13	200.0	Н	155.0	-5.9
1696.933333	45.74		74.00	28.26	100.0	Н	91.0	-4.5
1712.333333		35.91	54.00	18.09	200.0	Н	227.0	-4.4
2015.266667	47.57		74.00	26.43	200.0	Н	293.0	-2.6
2079.066667		37.58	54.00	16.42	200.0	Н	326.0	-2.3
2638.266667	48.35		74.00	25.65	100.0	Н	91.0	0.3
2647.066667		38.67	54.00	15.33	200.0	Н	332.0	0.3
2943.666667	48.98		74.00	25.02	100.0	Н	71.0	1.5
2972.533333		40.38	54.00	13.62	200.0	Н	155.0	1.7

RF Test Report 802.11n (HT20) CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

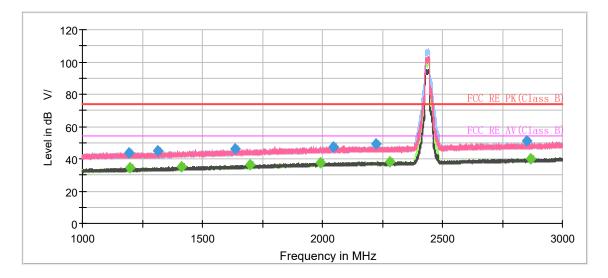


Radiates Emission from 3GHz to 18GHz

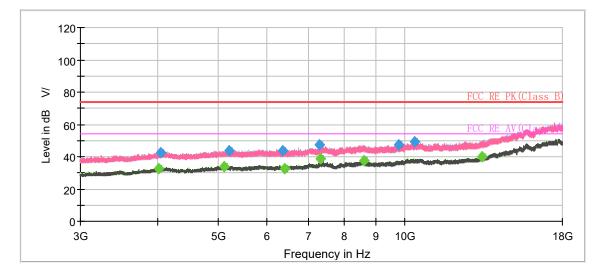


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1187.533333		32.76	54.00	21.24	200.0	Н	220.0	-7.4
1195.000000	43.32		74.00	30.68	200.0	Н	64.0	-7.3
1419.866667		35.02	54.00	18.98	100.0	V	91.0	-6.0
1526.733333	52.94		74.00	21.06	100.0	V	215.0	-5.4
1713.400000		36.00	54.00	18.00	100.0	Н	288.0	-4.4
1728.400000	46.36		74.00	27.64	100.0	V	24.0	-4.3
1982.200000	47.96		74.00	26.04	200.0	Н	7.0	-2.8
2023.666667		37.65	54.00	16.35	200.0	V	260.0	-2.6
2671.666667	48.93		74.00	25.07	100.0	V	159.0	0.4
2679.733333		38.90	54.00	15.10	200.0	V	357.0	0.5
2972.733333		41.34	54.00	12.66	100.0	Н	281.0	1.7
2974.933333	50.93		74.00	23.07	100.0	Н	344.0	1.7





Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

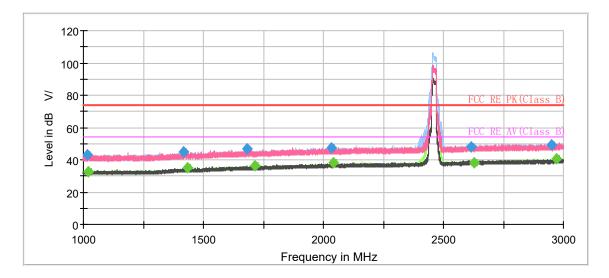


Radiates Emission from 3GHz to 18GHz

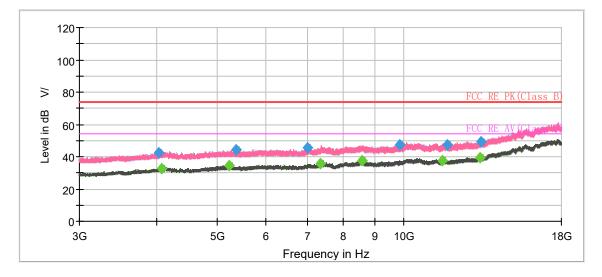


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.400000	43.95		74.00	30.05	200.0	V	217.0	-7.3
1197.666667		34.32	54.00	19.68	100.0	V	29.0	-7.3
1313.400000	45.11		74.00	28.89	200.0	V	341.0	-6.7
1413.000000		35.06	54.00	18.94	200.0	Н	61.0	-6.1
1638.400000	45.94		74.00	28.06	200.0	Н	134.0	-4.8
1698.133333		36.27	54.00	17.73	100.0	Н	30.0	-4.5
1989.800000		37.68	54.00	16.32	200.0	V	147.0	-2.7
2044.533333	47.43		74.00	26.57	200.0	V	237.0	-2.5
2223.066667	49.04		74.00	24.96	200.0	V	147.0	-1.7
2282.800000		38.02	54.00	15.98	200.0	V	335.0	-1.6
2851.400000	50.90		74.00	23.10	200.0	Н	148.0	1.1
2865.933333		39.95	54.00	14.05	200.0	V	167.0	1.1





Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

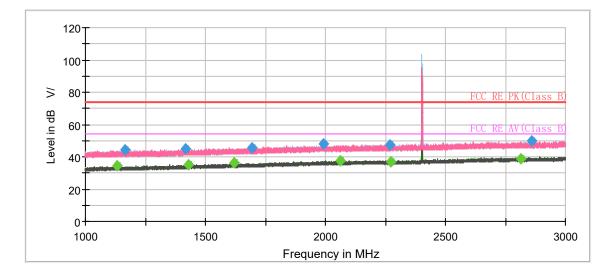


Radiates Emission from 3GHz to 18GHz

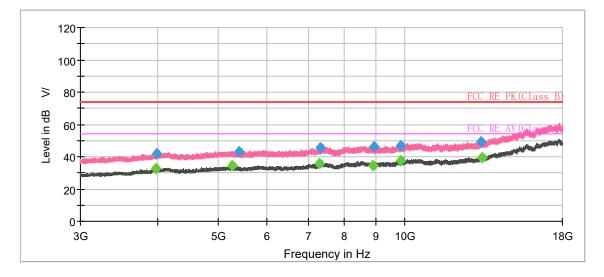


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1017.266667	43.20		74.00	30.80	100.0	V	311.0	-8.4
1018.666667		32.73	54.00	21.27	200.0	V	100.0	-8.4
1418.200000	44.72		74.00	29.28	100.0	V	330.0	-6.0
1435.600000		34.99	54.00	19.01	100.0	V	337.0	-5.9
1681.666667	46.47		74.00	27.53	100.0	V	324.0	-4.6
1715.400000		36.25	54.00	17.75	200.0	Н	298.0	-4.4
2035.000000	47.62		74.00	26.38	100.0	V	295.0	-2.5
2042.133333		38.01	54.00	15.99	100.0	V	268.0	-2.5
2616.866667	48.05		74.00	25.95	100.0	Н	107.0	0.1
2627.000000		38.26	54.00	15.74	100.0	Н	38.0	0.2
2952.266667	49.33		74.00	24.67	100.0	Н	11.0	1.5
2970.200000		40.52	54.00	13.48	200.0	Н	0.0	1.7

Bluetooth LE-Channel 0



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

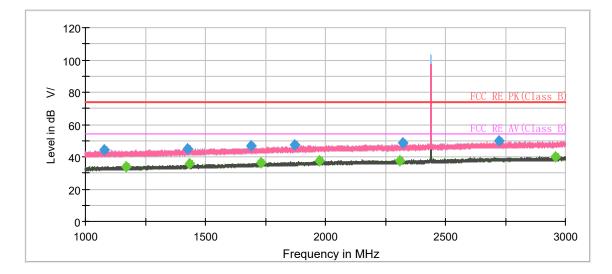


Radiates Emission from 3GHz to 18GHz

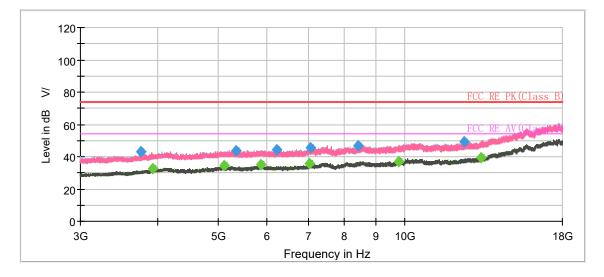


Frequency (MHz)	MaxPeak (dB	Average (dB μ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1134.066667		34.63	54.00	19.37	200.0	Н	212.0	-7.6
1166.600000	44.17		74.00	29.83	200.0	V	255.0	-7.5
1416.000000	44.95		74.00	29.05	200.0	Н	0.0	-6.1
1431.600000		34.89	54.00	19.11	200.0	Н	334.0	-6.0
1618.133333		36.16	54.00	17.84	200.0	Н	166.0	-5.0
1692.733333	45.60		74.00	28.40	100.0	V	291.0	-4.5
1990.800000	48.06		74.00	25.94	100.0	Н	54.0	-2.7
2063.533333		37.41	54.00	16.59	100.0	V	222.0	-2.4
2268.866667	47.59		74.00	26.41	200.0	V	0.0	-1.6
2274.000000		36.81	54.00	17.19	100.0	Н	0.0	-1.6
2815.400000		38.57	54.00	15.43	100.0	Н	258.0	1.0
2860.666667	49.60		74.00	24.40	100.0	Н	305.0	1.1
13332.000000		39.69	54.00	14.31	200.0	Н	85.0	8.7

Bluetooth LE-Channel 19



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz

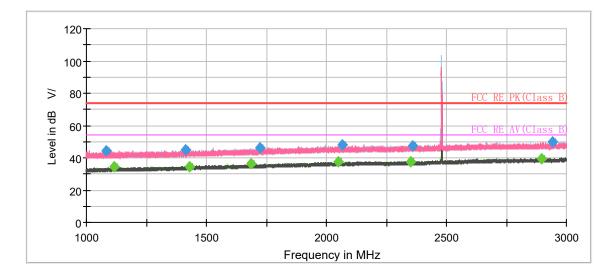


Radiates Emission from 3GHz to 18GHz

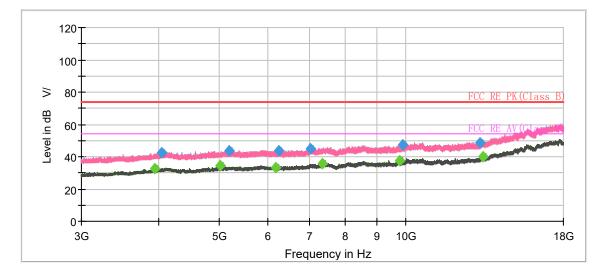


Frequency (MHz)	MaxPeak (dB	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1078.000000	44.35		74.00	29.65	100.0	Н	100.0	-7.9
1170.866667		34.03	54.00	19.97	200.0	V	351.0	-7.4
1424.466667	44.62		74.00	29.38	200.0	V	134.0	-6.0
1434.866667		35.66	54.00	18.34	100.0	Н	271.0	-5.9
1689.400000	46.48		74.00	27.52	200.0	Н	36.0	-4.5
1731.533333		36.03	54.00	17.97	200.0	V	313.0	-4.3
1873.666667	47.15		74.00	26.85	100.0	Н	155.0	-3.5
1977.200000		37.71	54.00	16.29	100.0	V	342.0	-2.8
2310.866667		37.45	54.00	16.55	200.0	Н	124.0	-1.5
2322.733333	48.52		74.00	25.48	200.0	V	147.0	-1.4
2721.466667	49.92		74.00	24.08	100.0	V	189.0	0.6
2957.200000		40.22	54.00	13.78	100.0	V	138.0	1.6

Bluetooth LE-Channel 39



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



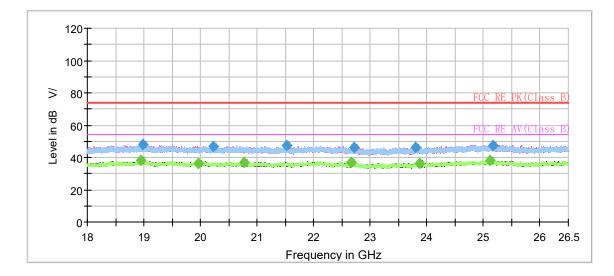
Radiates Emission from 3GHz to 18GHz



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)
1084.133333	44.52		74.00	29.48	100.0	Н	12.0	-7.9
1114.333333		34.46	54.00	19.54	200.0	V	188.0	-7.7
1411.400000	44.72		74.00	29.28	100.0	V	355.0	-6.1
1430.133333		34.59	54.00	19.41	100.0	V	342.0	-6.0
1687.666667		36.38	54.00	17.62	100.0	Н	274.0	-4.6
1723.133333	45.93		74.00	28.07	200.0	Н	325.0	-4.3
2049.000000		37.38	54.00	16.62	100.0	V	0.0	-2.5
2067.866667	47.91		74.00	26.09	200.0	V	90.0	-2.4
2350.466667		37.81	54.00	16.19	100.0	Н	223.0	-1.3
2359.866667	47.35		74.00	26.65	100.0	Н	5.0	-1.3
2896.733333		39.24	54.00	14.76	100.0	V	309.0	1.2
2943.800000	49.62		74.00	24.38	200.0	V	123.0	1.5



During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11b CH11 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



5.7. Conducted Emission

Ambient condition

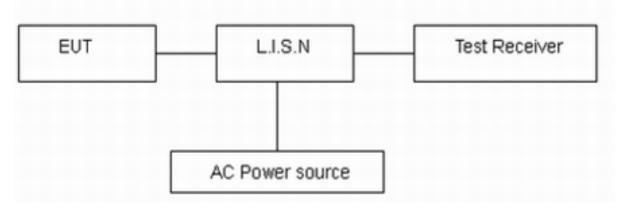
Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

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.							

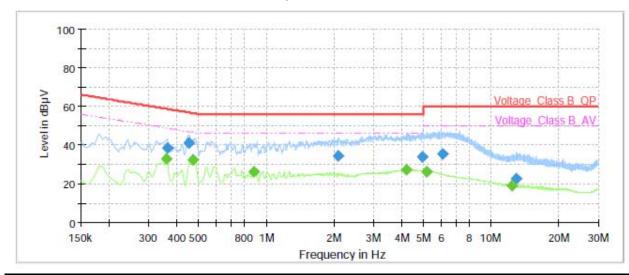
Measurement Uncertainty

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:

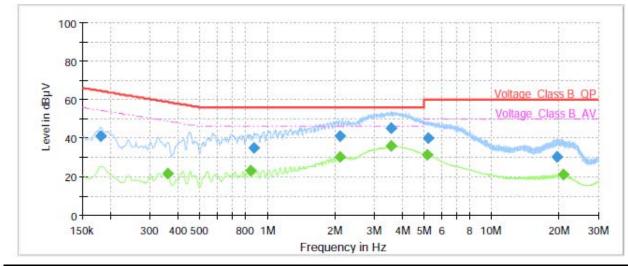
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G /Bluetooth LE) with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBμV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.36		32.61	48.75	16.14	70.0	9.000	L1	ON	21
0.36	38.27		58.69	20.42	70.0	9.000	L1	ON	21
0.45	40.89		56.85	15.96	70.0	9.000	L1	ON	20
0.47		32.48	46.44	13.96	70.0	9.000	L1	ON	20
0.88		26.38	46.00	19.62	70.0	9.000	L1	ON	20
2.10	34.30		56.00	21.70	70.0	9.000	L1	ON	20
4.20		26.93	46.00	19.07	70.0	9.000	L1	ON	19
4.92	34.02		56.00	21.98	70.0	9.000	L1	ON	19
5.14		26.40	50.00	23.60	70.0	9.000	L1	ON	19
6.08	35.24		60.00	24.76	70.0	9.000	L1	ON	19
12.43		18.98	50.00	31.02	70.0	9.000	L1	ON	20
12.99	22.48		60.00	37.52	70.0	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)
0.18	40.87		64.42	23.55	70.0	9.000	Ν	ON	21
0.36		21.78	48.75	26.97	70.0	9.000	Ν	ON	21
0.84		22.98	46.00	23.02	70.0	9.000	Ν	ON	20
0.87	34.86		56.00	21.14	70.0	9.000	Ν	ON	20
2.10	41.13		56.00	14.87	70.0	9.000	Ν	ON	20
2.11		30.32	46.00	15.68	70.0	9.000	Ν	ON	20
3.57		36.14	46.00	9.86	70.0	9.000	Ν	ON	19
3.57	44.89		56.00	11.11	70.0	9.000	Ν	ON	19
5.15		31.21	50.00	18.79	70.0	9.000	Ν	ON	19
5.22	39.99		60.00	20.01	70.0	9.000	Ν	ON	19
19.59	30.16		60.00	29.84	70.0	9.000	Ν	ON	20
20.83		21.21	50.00	28.79	70.0	9.000	Ν	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	Туре	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2020-08-11	2023-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102644	2018-06-20	2023-06-19
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	Agilent	N9010A	MY47191109	2021-05-15	2022-05-14
Power Meter	R&S	NRP2	104306	2021-05-15	2022-05-14
Power Sensor	R&S	NRP-Z21	104799	2021-05-15	2022-05-14
20dB Attenuator	Star River Highlight	UCL-TS2S- 20	18013001	2020-12-14	2021-12-13
RF Cable	Agilent	SMA 15cm	0001	2021-06-13	2021-12-12
Software	R&S	EMC32	9.26.0	/	/

******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.



ANNEX C: Product Change Description

The Product Change Description are submitted separately.