RF TEST REPORT

Applicant	ZTE Corporation
FCC ID	SRQ-Z6252CA
Product	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Model	Z6252CA
Report No.	R2108A0747-R4
Issue Date	October 8, 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.

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Approved by: Kai Xu

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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: August 26, 2021 ~ September 2, 2021 Date of Sample Received: August 20, 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.			

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
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
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	Z6252CA
IMEI	860032050002171
Hardware Version	Z6252CAHW1.0
Software Version	Z6252CAV1.0.0B03
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: 20.85dBm Bluetooth LE: 6.89 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
Battery	Manufacturer: VEKEN

	Model: Li3931T44P8h806139
USB Cable 1	Manufacturer: Shenzhen Luxshare Precision Industry Co.,Ltd. Model: USB-TC20-W-100-M-L
USB Cable 2	Manufacturer: kingpower-tech Model: USB-TC20-W-100-M-L
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 USB Cable and Adapter, each one should be applied throughout the compliance test respectively, however, only the worst case (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 2Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

5. Test Case Results

5.1. Maximum output power

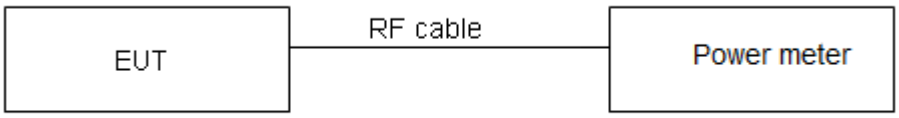
Ambient condition

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."

Average Output Power	≤ 1W (30dBm)

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	22	18	18
CH6	22	18	18
CH11	22	18	18

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	1.39	1.44	0.97	0.15
802.11n HT20	1.30	1.34	0.96	0.16
Bluetooth LE (1M)	2.13	2.51	0.847	0.720
Bluetooth LE (2M)	1.07	1.87	0.573	2.421
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
802.11b	2412	20.46	20.46	30	PASS
	2437	20.85	20.85	30	PASS
	2462	20.47	20.47	30	PASS
802.11g	2412	16.17	16.32	30	PASS
	2437	16.38	16.53	30	PASS
	2462	16.26	16.41	30	PASS
802.11n HT20	2412	16.02	16.18	30	PASS
	2437	16.17	16.33	30	PASS
	2462	16.10	16.26	30	PASS
Bluetooth (Low Energy) (1M)	2402	5.08	5.80	30	PASS
	2440	6.17	6.89	30	PASS
	2480	5.63	6.35	30	PASS
Bluetooth (Low Energy) (2M)	2402	3.43	5.85	30	PASS
	2440	4.36	6.78	30	PASS
	2480	3.86	6.28	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient condition

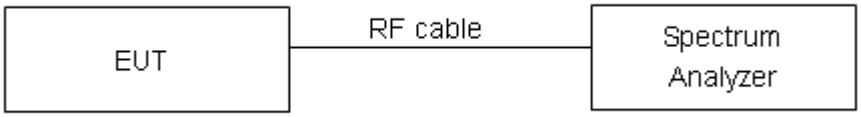
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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	≥ 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
802.11b	2412	13.429	8.551	500	PASS
	2437	13.831	7.572	500	PASS
	2462	13.922	7.597	500	PASS
802.11g	2412	16.506	14.192	500	PASS
	2437	16.396	14.776	500	PASS
	2462	16.478	15.012	500	PASS
802.11n HT20	2412	17.620	13.881	500	PASS
	2437	17.537	13.881	500	PASS
	2462	17.615	15.275	500	PASS
Bluetooth (Low Energy) (1M)	2402	1.038	0.647	500	PASS
	2440	1.037	0.693	500	PASS
	2480	1.035	0.660	500	PASS
Bluetooth (Low Energy) (2M)	2402	2.074	1.149	500	PASS
	2440	2.072	1.154	500	PASS
	2480	2.072	1.125	500	PASS

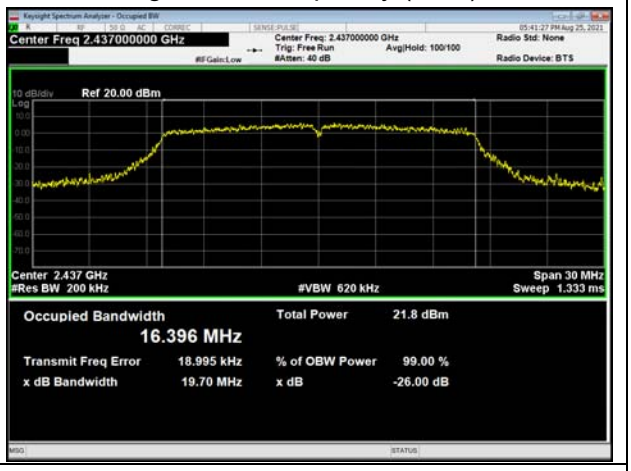
99%bandwidth

802.11b, Carrier frequency (MHz): 2412

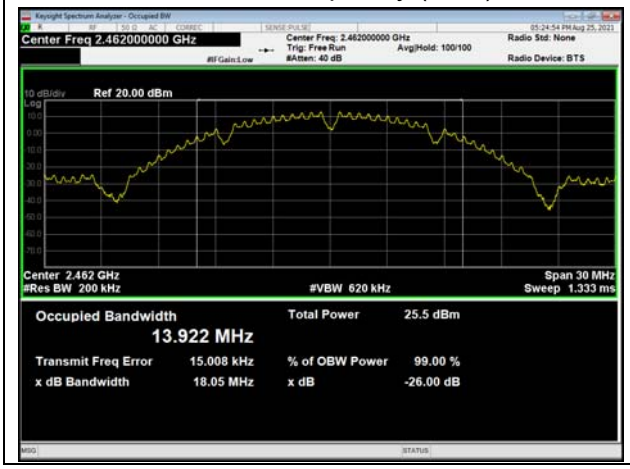
802.11g, Carrier frequency (MHz): 2412

802.11b, Carrier frequency (MHz): 2437

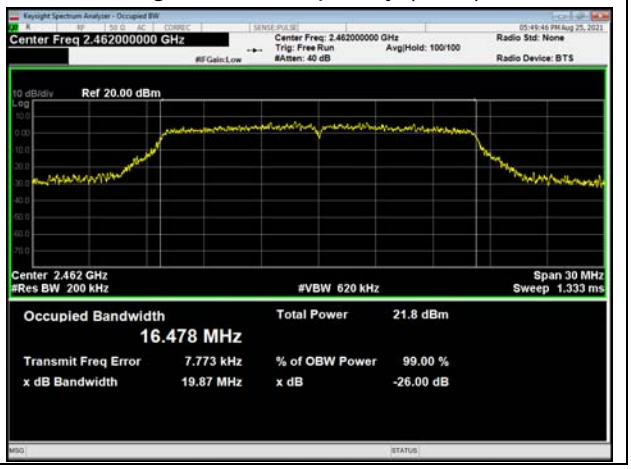
802.11g, Carrier frequency (MHz): 2437



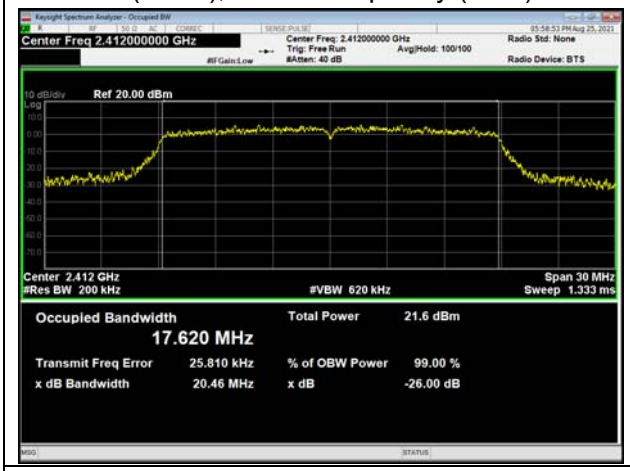
802.11b, Carrier frequency (MHz):2462



802.11g, Carrier frequency (MHz):2462



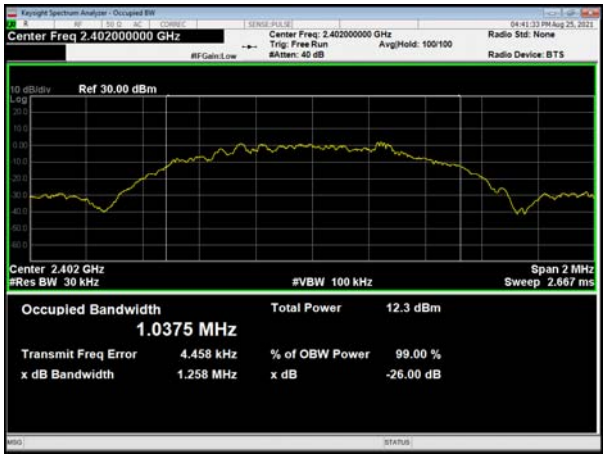
802.11n(HT20), Carrier frequency (MHz): 2412



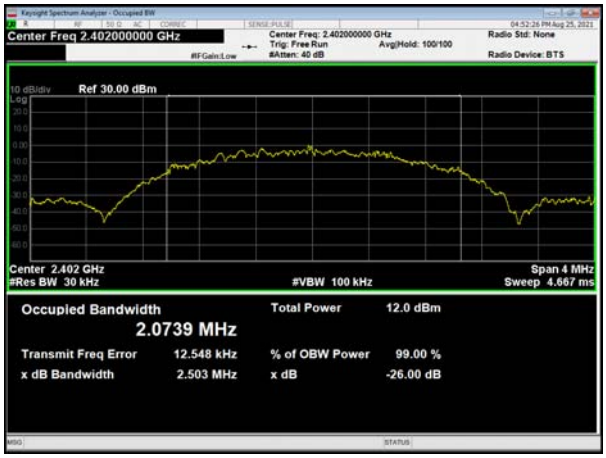
802.11n(HT20), Carrier frequency (MHz): 2437

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

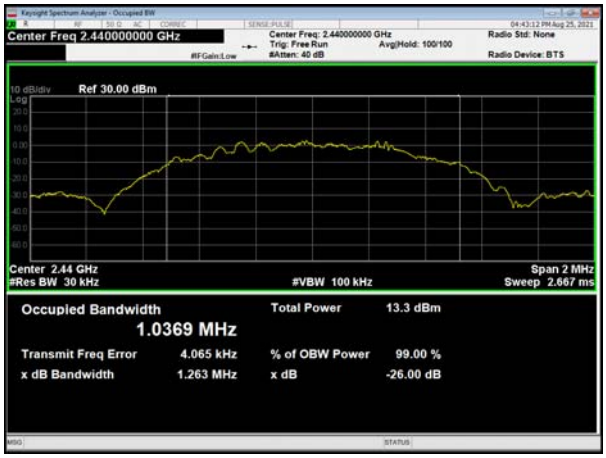
Bluetooth LE (1M) Carrier frequency (MHz): 2402



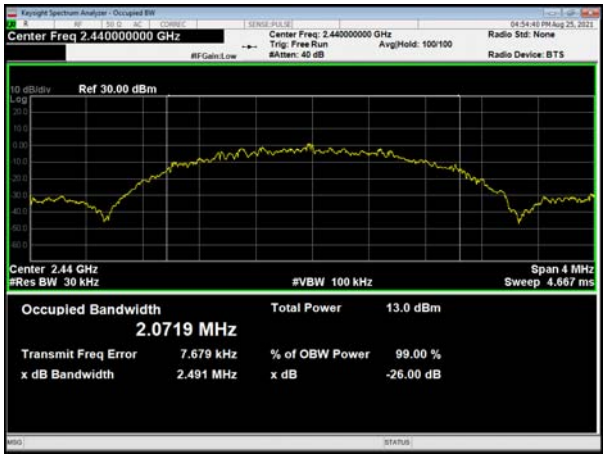
Bluetooth LE (2M) Carrier frequency (MHz): 2402



Bluetooth LE (1M) Carrier frequency (MHz): 2440



Bluetooth LE (2M) Carrier frequency (MHz): 2440



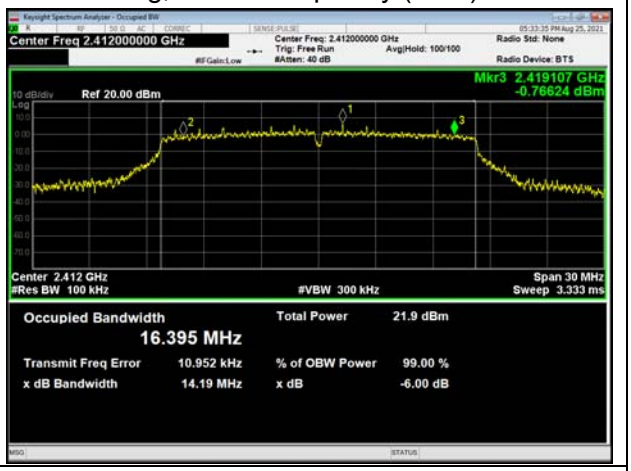
Bluetooth LE (1M) Carrier frequency (MHz): 2480

Bluetooth LE (2M) Carrier frequency (MHz): 2480

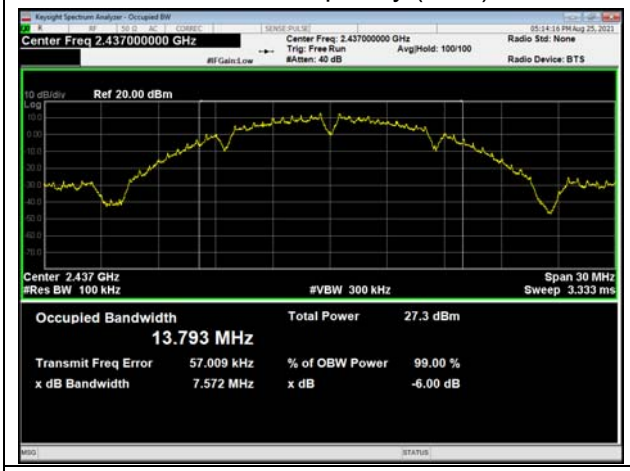
6 dB bandwidth

802.11b, Carrier frequency (MHz): 2412

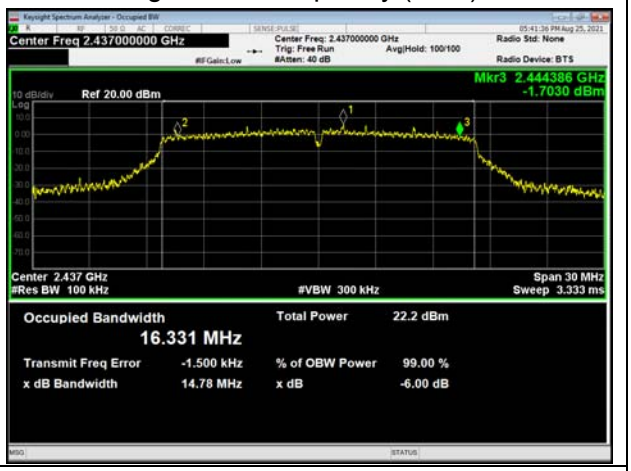
802.11g, Carrier frequency (MHz): 2412



802.11b, Carrier frequency (MHz): 2437

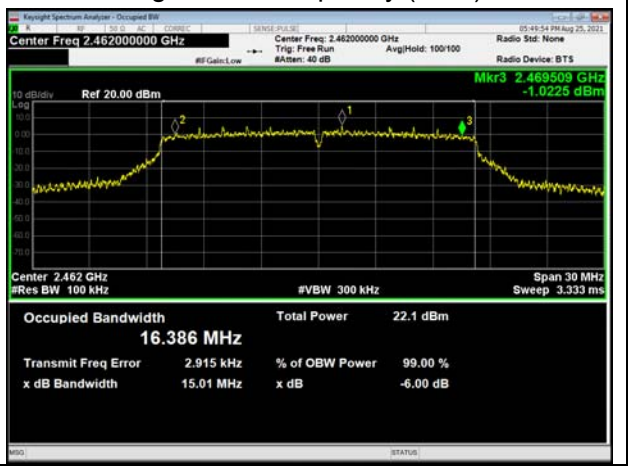


802.11g, Carrier frequency (MHz): 2437



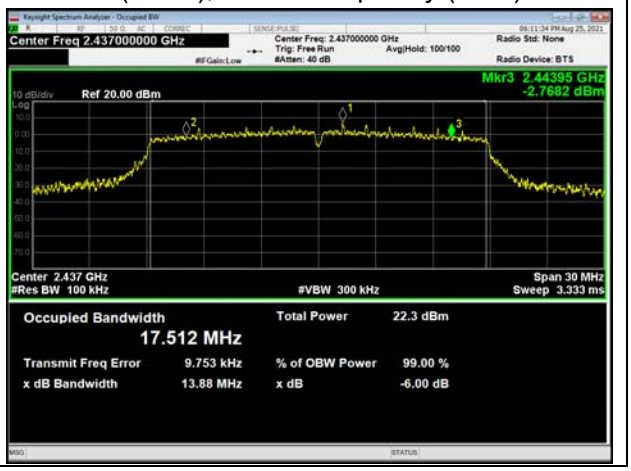
802.11b, Carrier frequency (MHz):2462

802.11g, Carrier frequency (MHz):2462

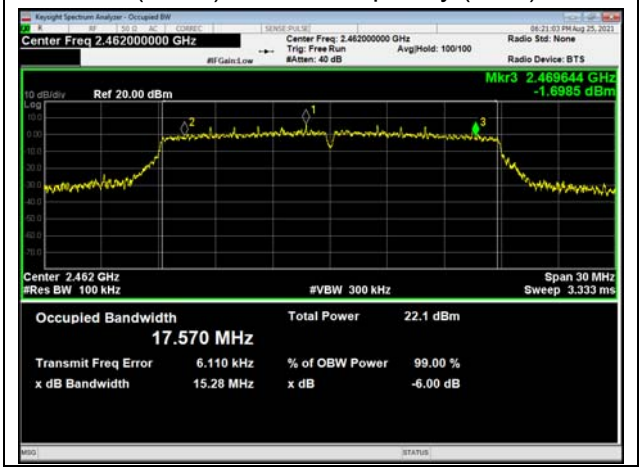


802.11n(HT20), Carrier frequency (MHz): 2412

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



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



Bluetooth LE (1M) Carrier frequency (MHz): 2402	Bluetooth LE (2M) Carrier frequency (MHz): 2402
	
Bluetooth LE (1M) Carrier frequency (MHz): 2440	Bluetooth LE (2M) Carrier frequency (MHz): 2440
	
Bluetooth LE (1M) Carrier frequency (MHz): 2480	Bluetooth LE (2M) Carrier frequency (MHz): 2480
	

5.3. Band Edge

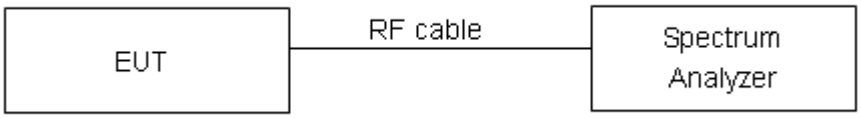
Ambient condition

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.

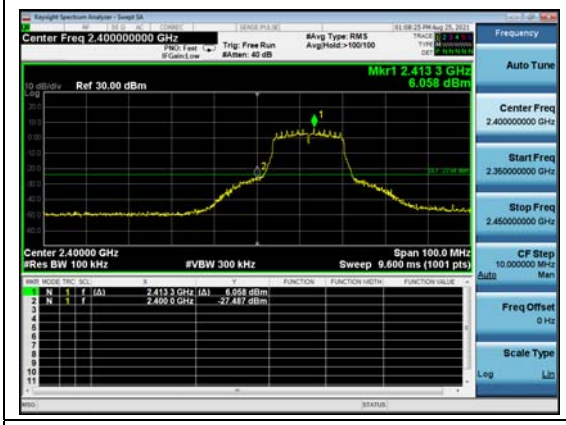
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results: PASS

802.11b, Channel No.: 1

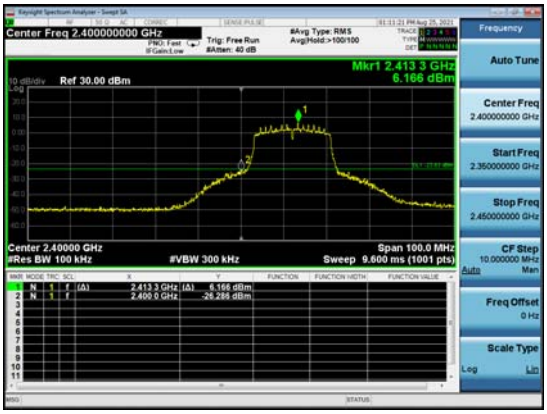
802.11b, Channel No.: 11

802.11g, Channel No.: 1



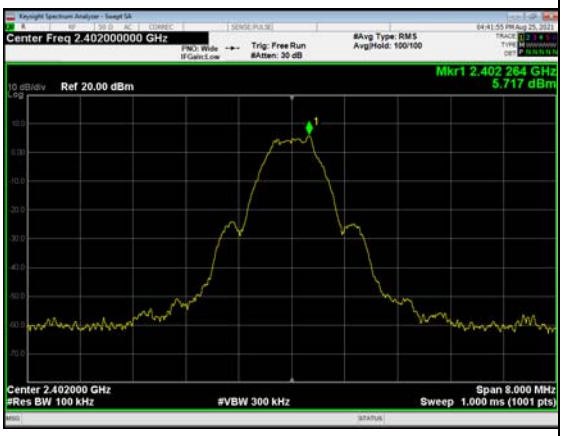
802.11g, Channel No.: 11

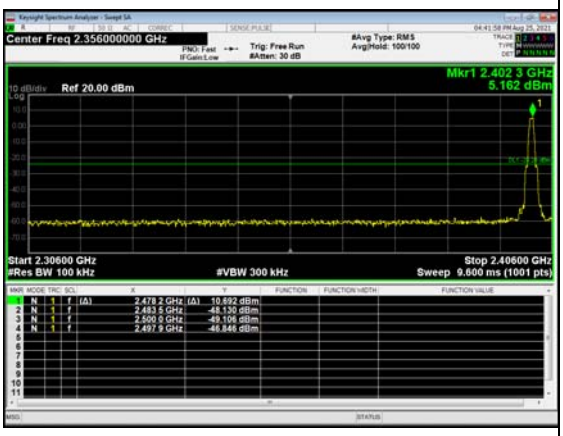
802.11n(HT20), Channel No.: 1



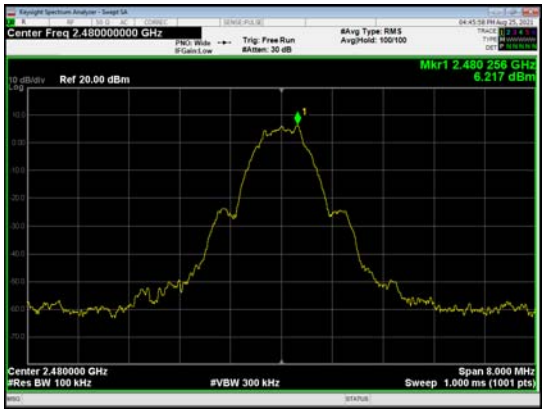
802.11n(HT20), Channel No.: 11

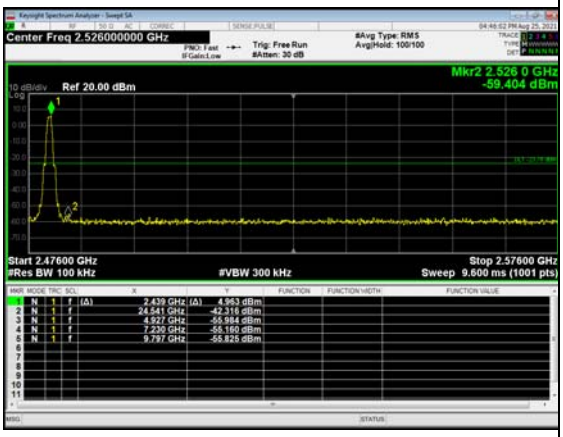
Bluetooth LE (1M), Channel No.: 0



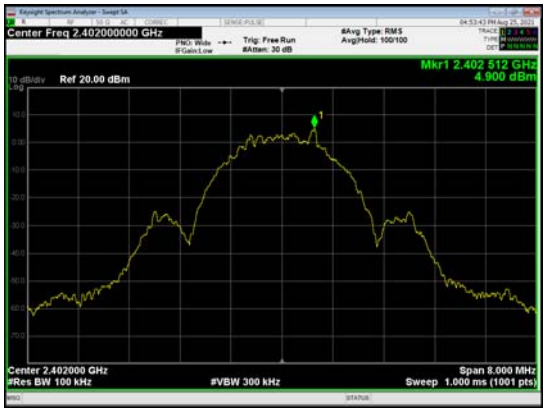


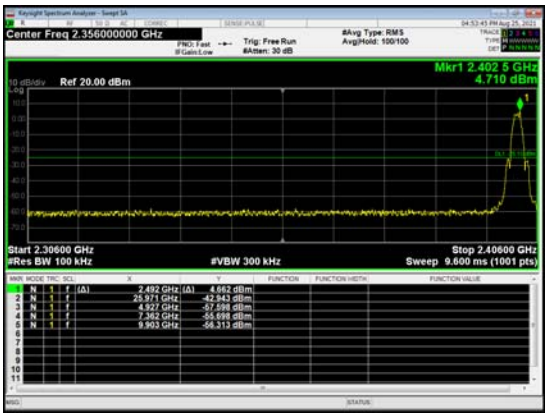
Bluetooth LE (1M), Channel No.: 39



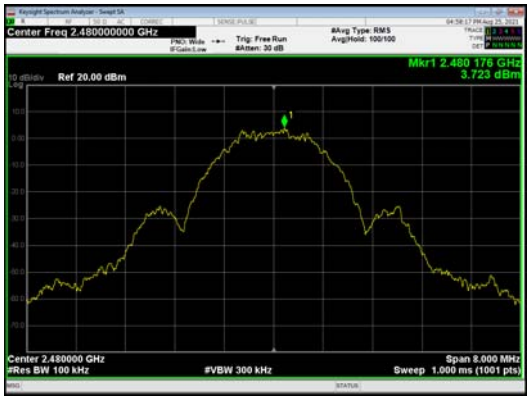


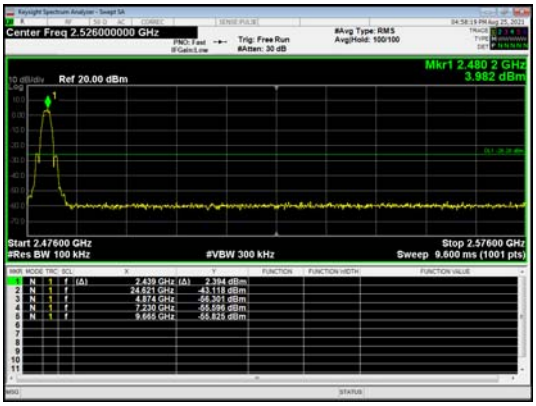
Bluetooth LE (2M), Channel No.: 0





Bluetooth LE (2M), Channel No.: 39





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”

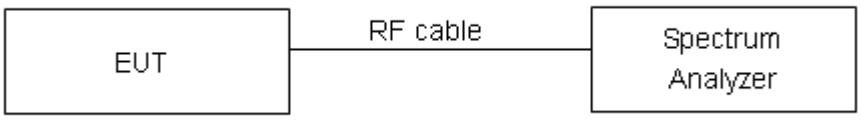
j) Employ trace averaging(rms) mode over a minimum of 100 traces

k) Use the peak marker function to determine the maximum amplitude level

l) 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.

Test Results:

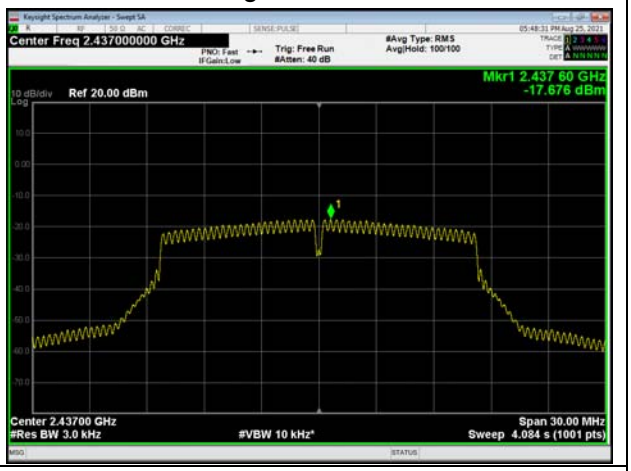
Test Mode	Channel Number	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-11.68	-11.68	8	PASS
	6	-11.40	-11.40	8	PASS
	11	-11.75	-11.75	8	PASS
802.11g	1	-18.29	-18.15	8	PASS
	6	-17.68	-17.53	8	PASS
	11	-18.01	-17.86	8	PASS
802.11n HT20	1	-18.25	-18.10	8	PASS
	6	-17.39	-17.23	8	PASS
	11	-17.90	-17.74	8	PASS
Bluetooth (Low Energy) (1M)	0	-16.30	-15.58	8	PASS
	19	-15.41	-14.69	8	PASS
	39	-16.06	-15.34	8	PASS
Bluetooth (Low Energy) (2M)	0	-19.88	-17.46	8	PASS
	19	-19.27	-16.84	8	PASS
	39	-19.87	-17.45	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

802.11b, Channel No.: 1

802.11g, Channel No.: 1

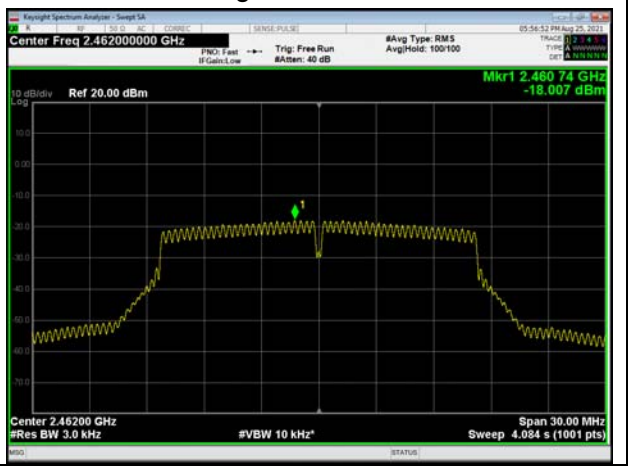
802.11b, Channel No.: 6

802.11g, Channel No.: 6

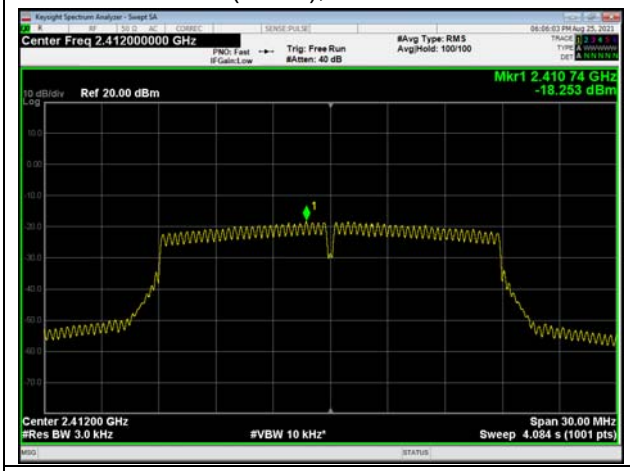


802.11b, Channel No.: 11

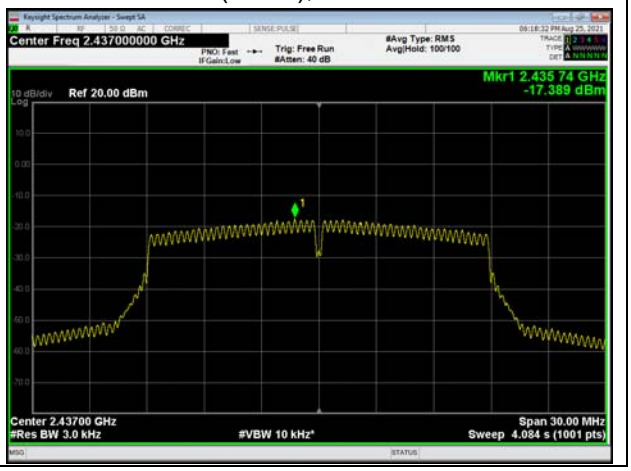
802.11g, Channel No.: 11



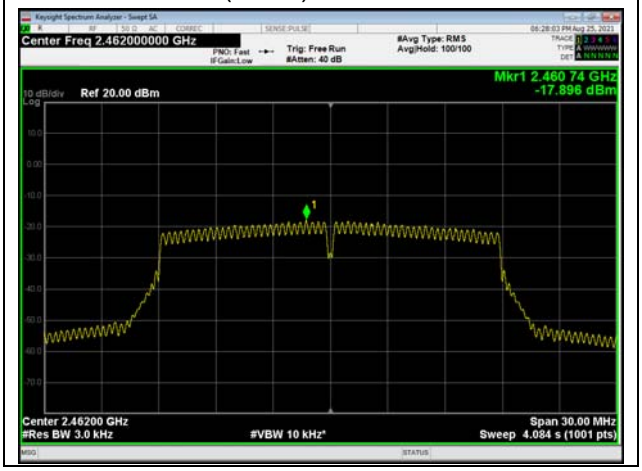
802.11n(HT20), Channel No. 1



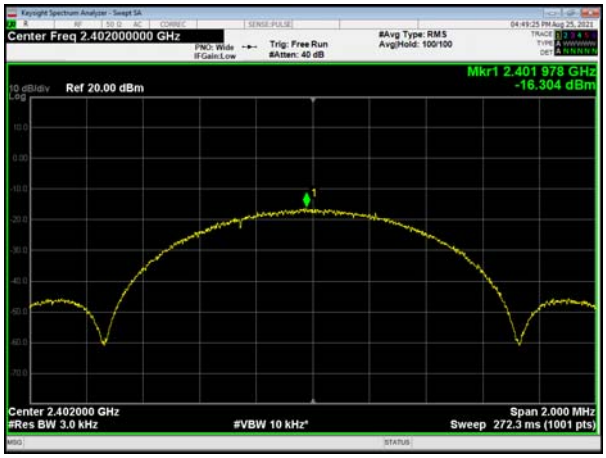
802.11n(HT20), Channel No. 6



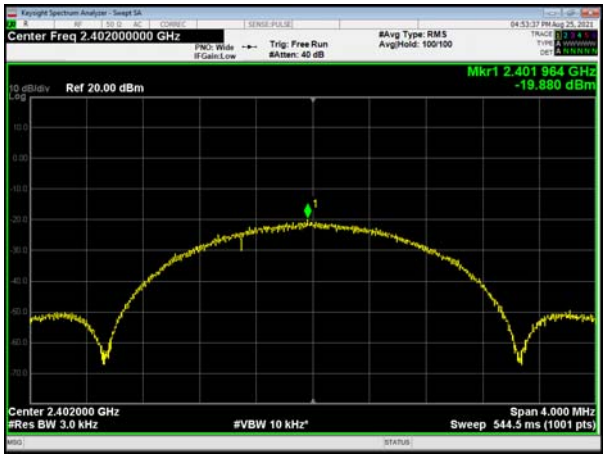
802.11n(HT20), Channel No. 11



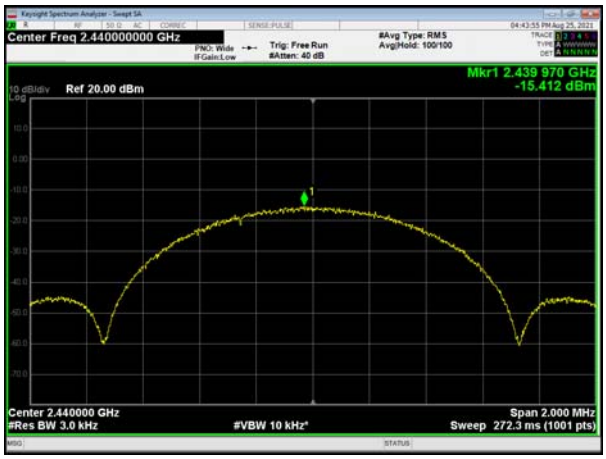
Bluetooth LE (1M), Channel No.: 0



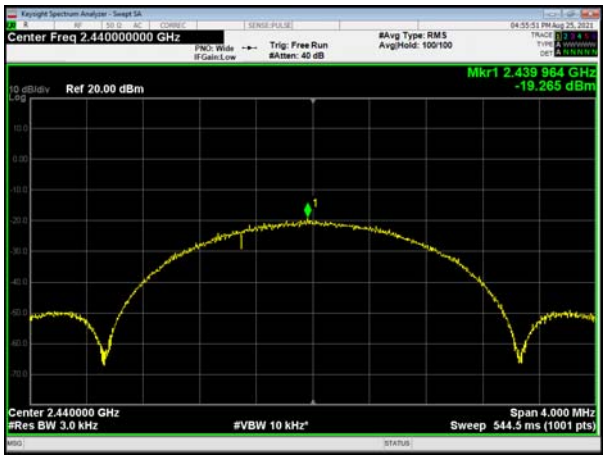
Bluetooth LE (2M), Channel No.: 0



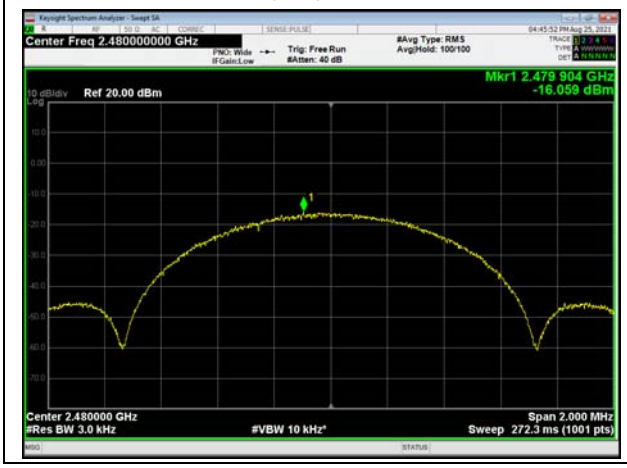
Bluetooth LE (1M), Channel No.: 19



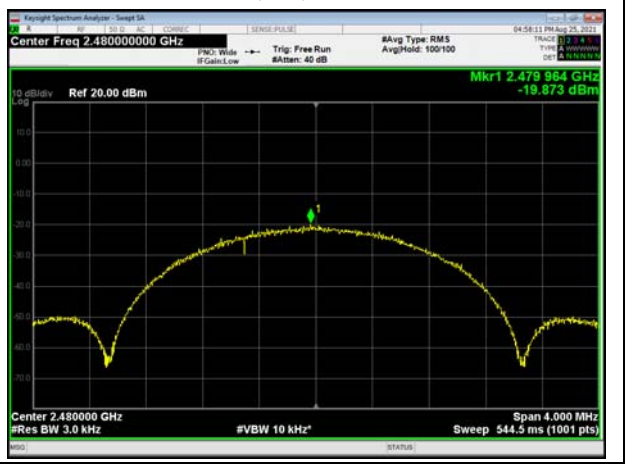
Bluetooth LE (2M), Channel No.: 19



Bluetooth LE (1M), Channel No.: 39



Bluetooth LE (2M), Channel No.: 39



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	11.73	-18.27
	2437	12.44	-17.57
	2462	12.17	-17.83
802.11g	2412	4.99	-25.01
	2437	6.54	-23.46
	2462	5.14	-24.86
802.11n HT20	2412	5.33	-24.67
	2437	6.77	-23.23
	2462	6.08	-23.92
Bluetooth (Low Energy) (1M)	2402	5.60	-24.40
	2440	6.72	-23.28
	2480	6.00	-24.00

Bluetooth (Low Energy) (2M)	2402	5.10	-24.91
	2440	5.90	-24.10
	2480	5.77	-24.23

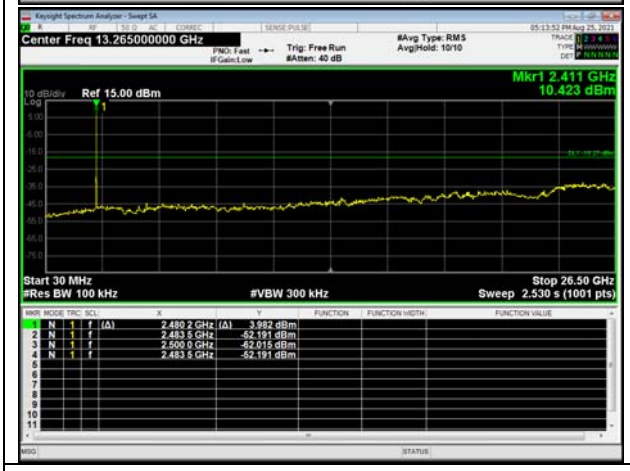
Measurement Uncertainty

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

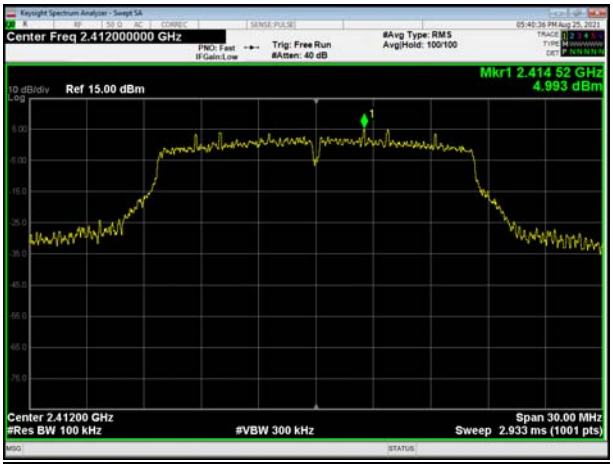
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

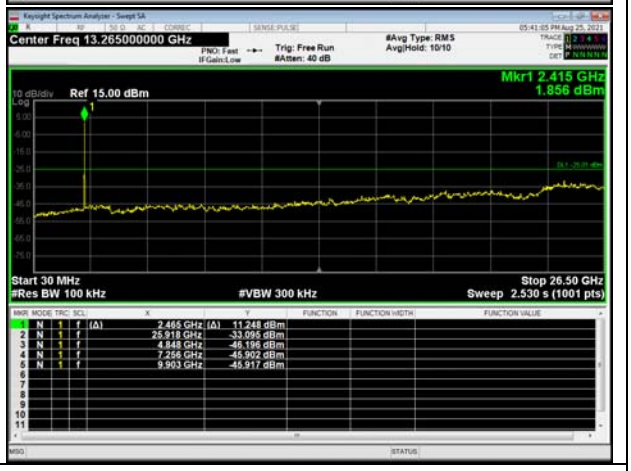
Test Results:

802.11b, Channel No.: 1



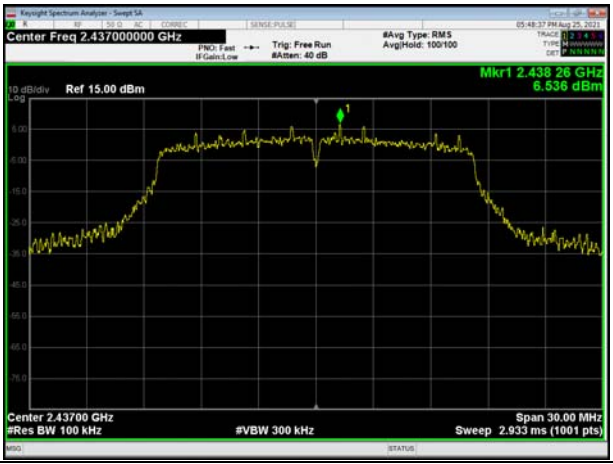
802.11g, Channel No.: 1

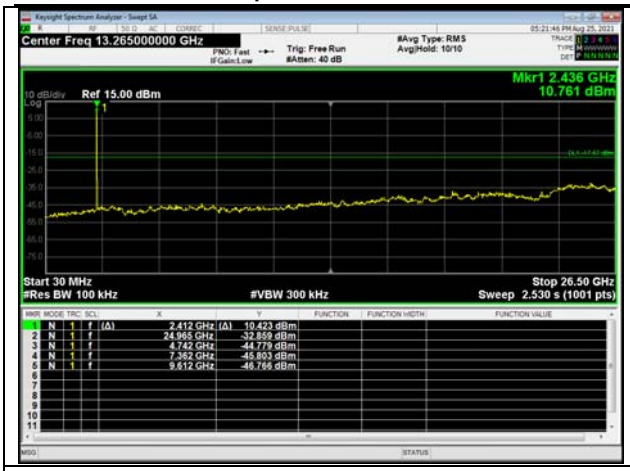


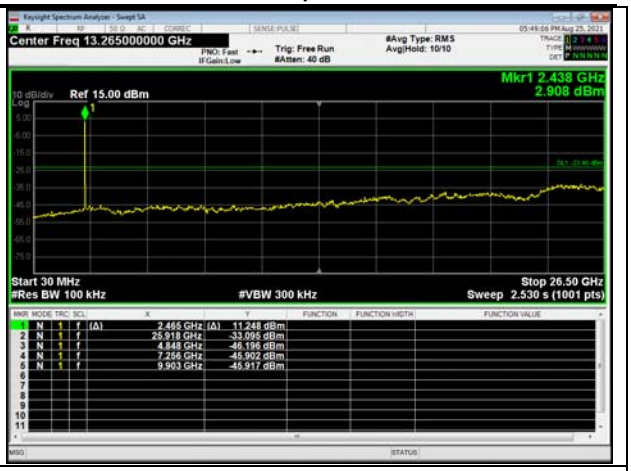


802.11b, Channel No.: 6

802.11g, Channel No.: 6

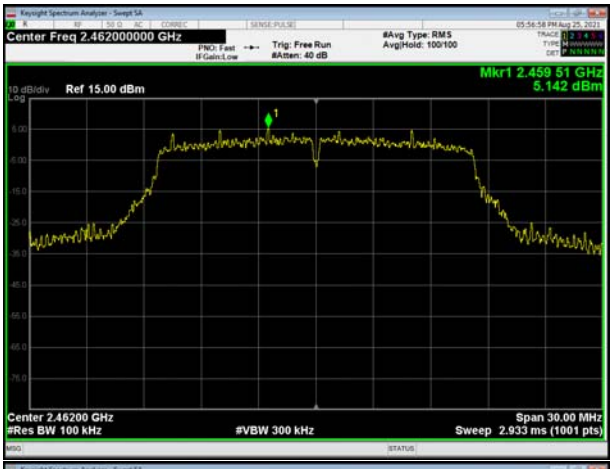


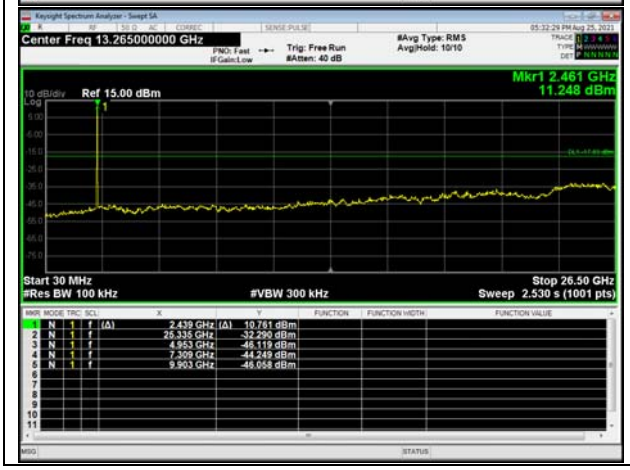


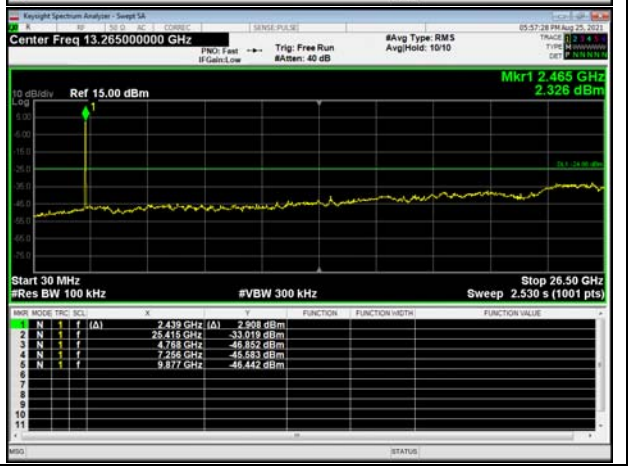


802.11b, Channel No.: 11

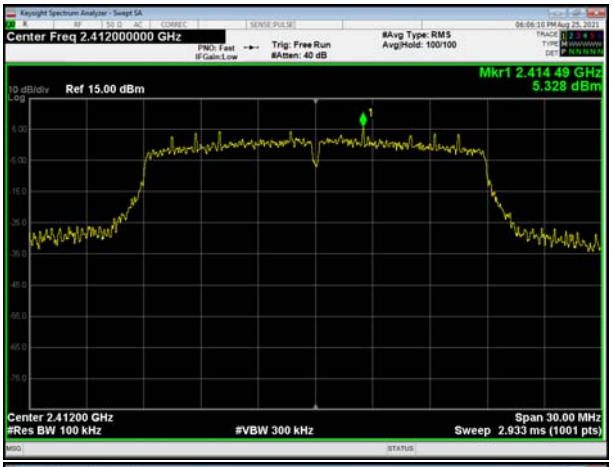
802.11g, Channel No.: 11

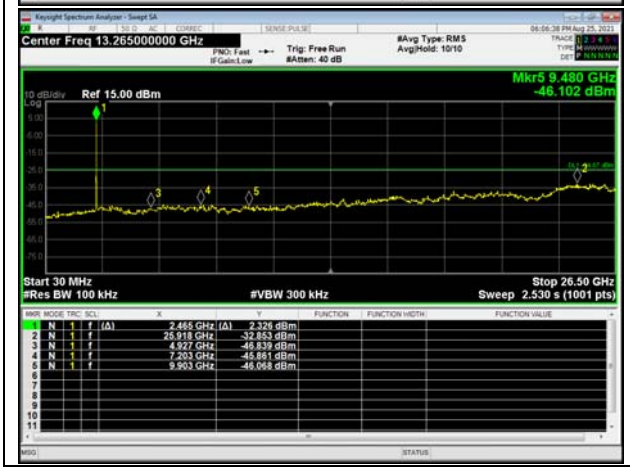




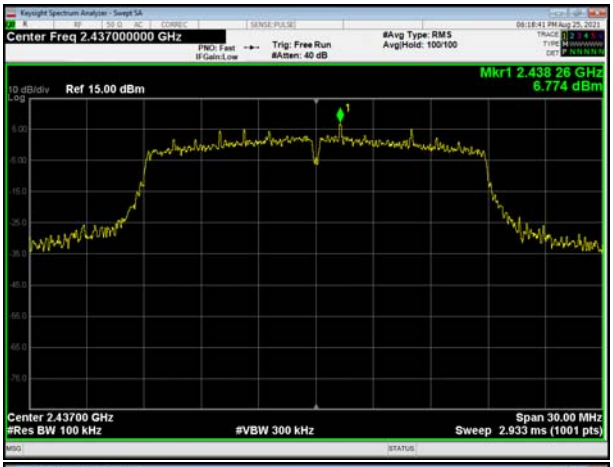


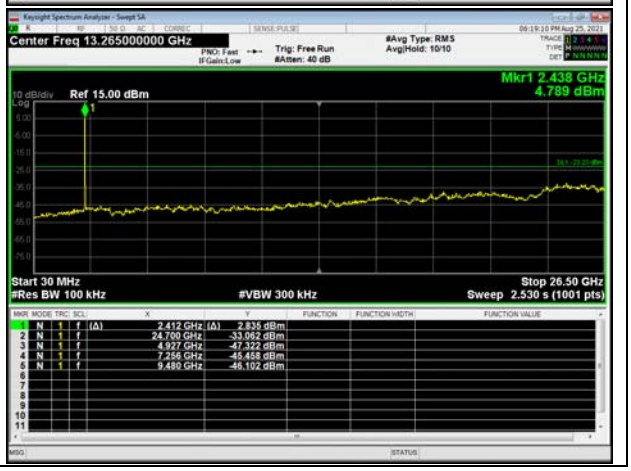
802.11n(HT20), Channel No. 1



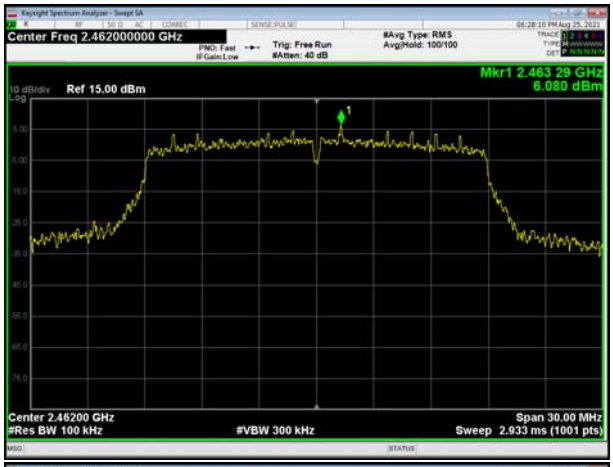


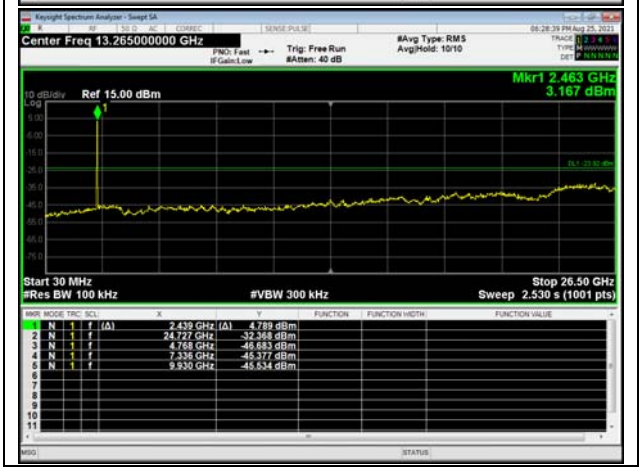
802.11n(HT20), Channel No. 6



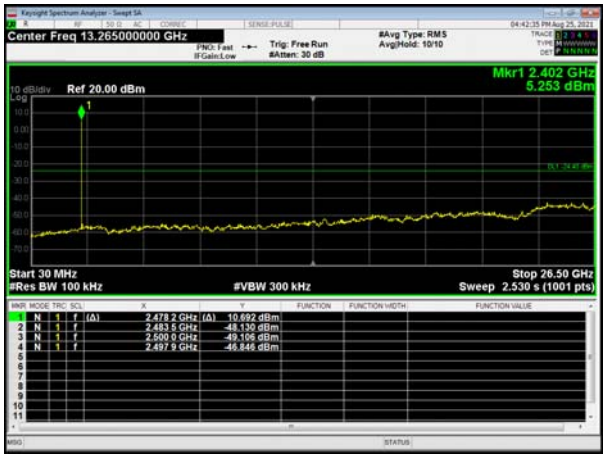


802.11n(HT20), Channel No. 11

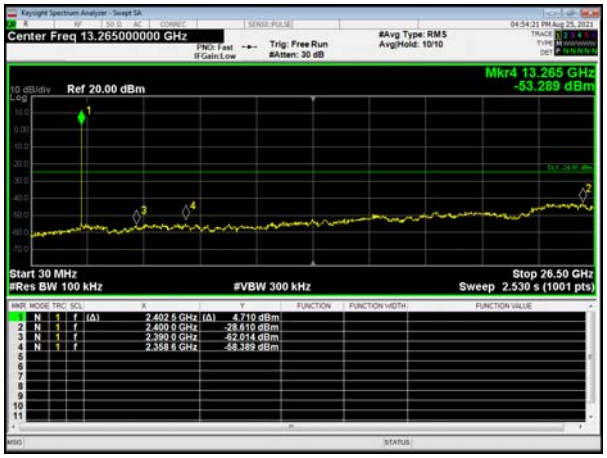




Bluetooth LE (1M), Channel No.: 0

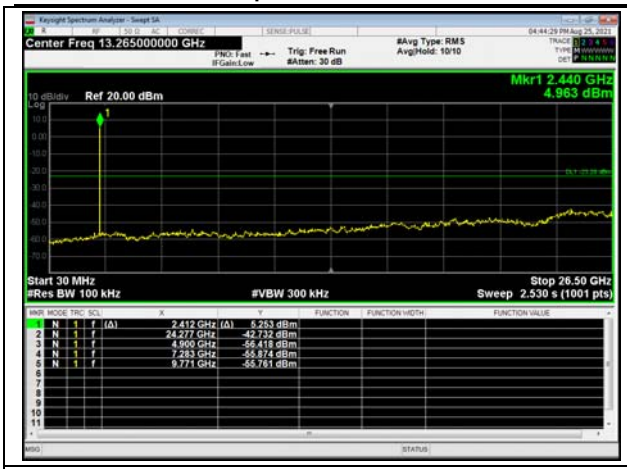


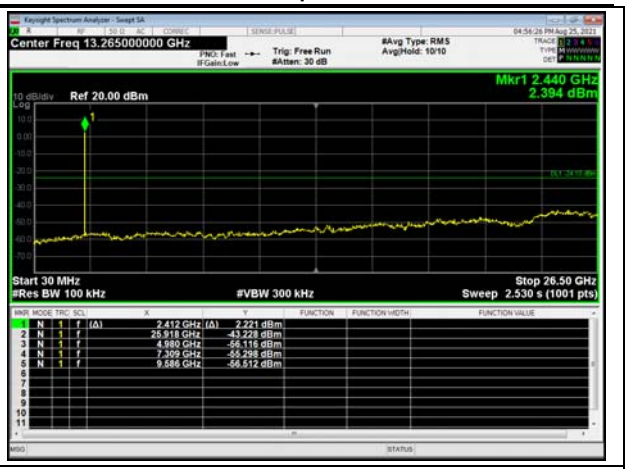
Bluetooth LE (2M), Channel No.: 0



Bluetooth LE (1M), Channel No.: 19

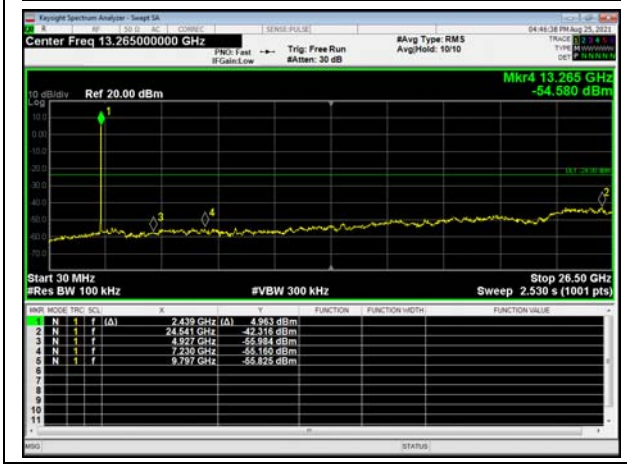
Bluetooth LE (2M), Channel No.: 19

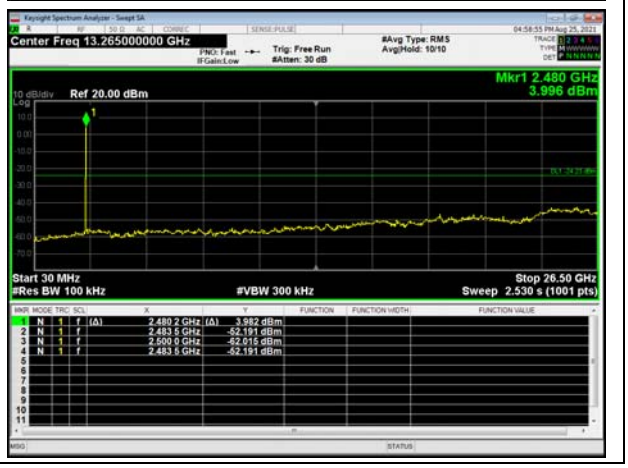




Bluetooth LE (1M), Channel No.: 39

Bluetooth LE (2M), Channel No.: 39





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.

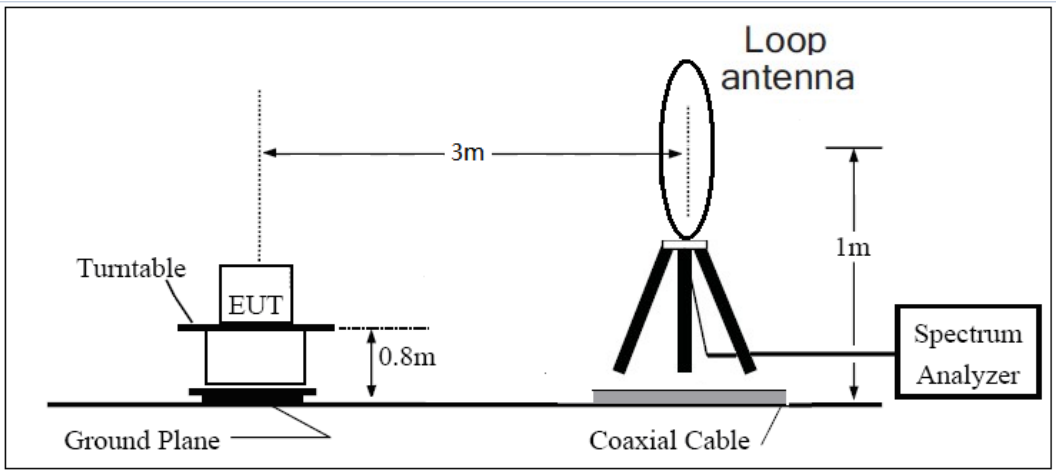
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

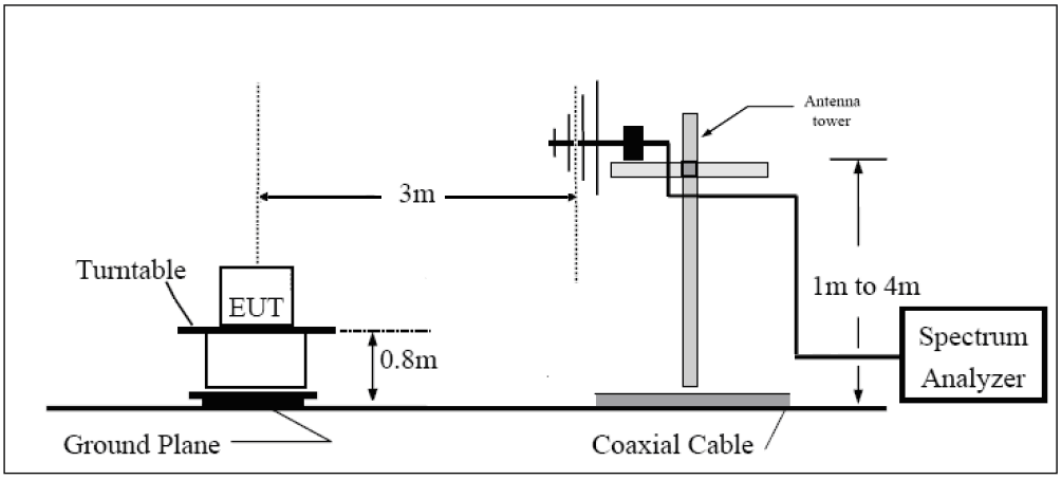
The test is in transmitting mode.

Test setup

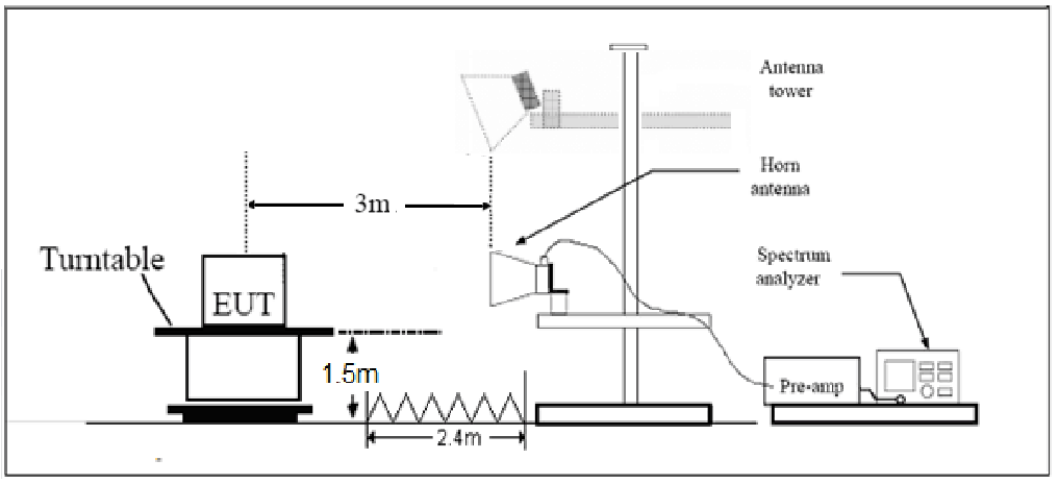
9KHz ~ 30MHz



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:

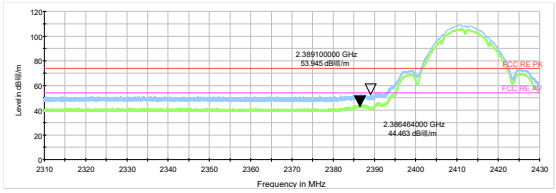
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 -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

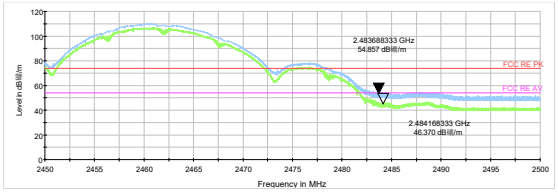
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

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

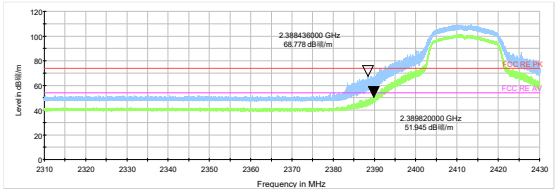
Test Results:



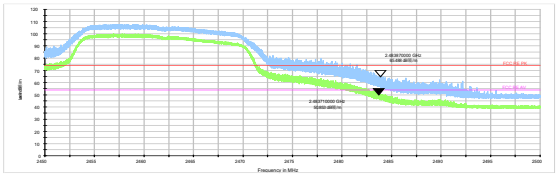
802.11b-Channel 1 Peak+ Average



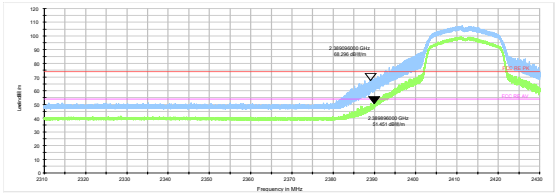
802.11b-Channel 11 Peak+ Average



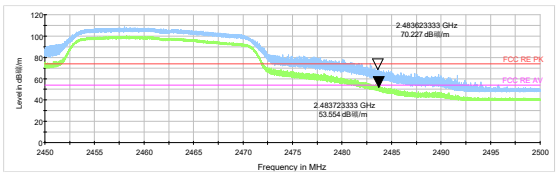
802.11g-Channel 1 Peak+ Average



802.11g-Channel 11 Peak+ Average

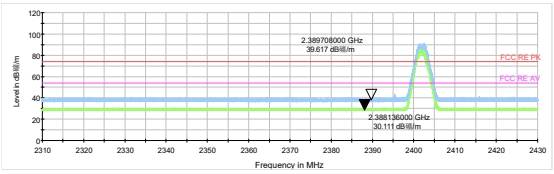
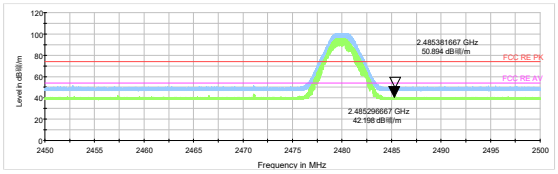


802.11n HT20 -Channel 1 Peak+ Average



802.11n HT20 -Channel 11 Peak+ Average

Bluetooth LE (2M) was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

	
Bluetooth LE (2M) Channel 0 Peak+ Average	Bluetooth LE (2M) Channel 39 Peak+ Average

Result of RE

Test result

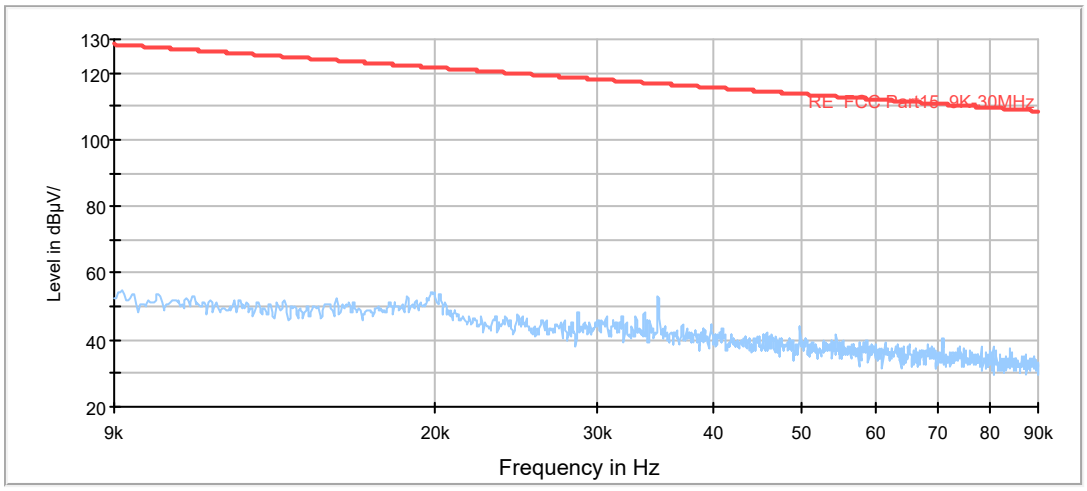
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

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, 802.11g, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.
A font (Level in dBµV/)in the test plot =(level in dB µ V/m)

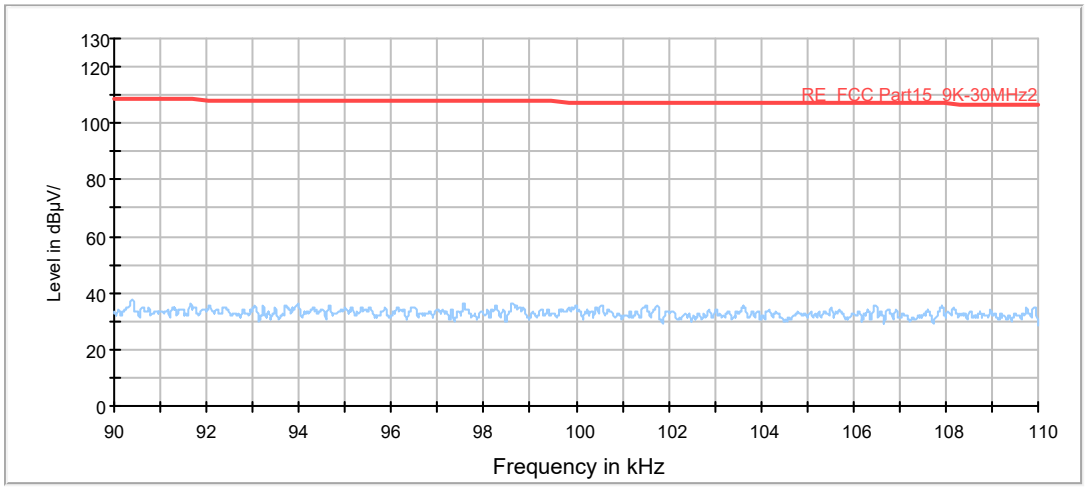
Continuous TX mode:

FCC RE 9K-90KHz AV



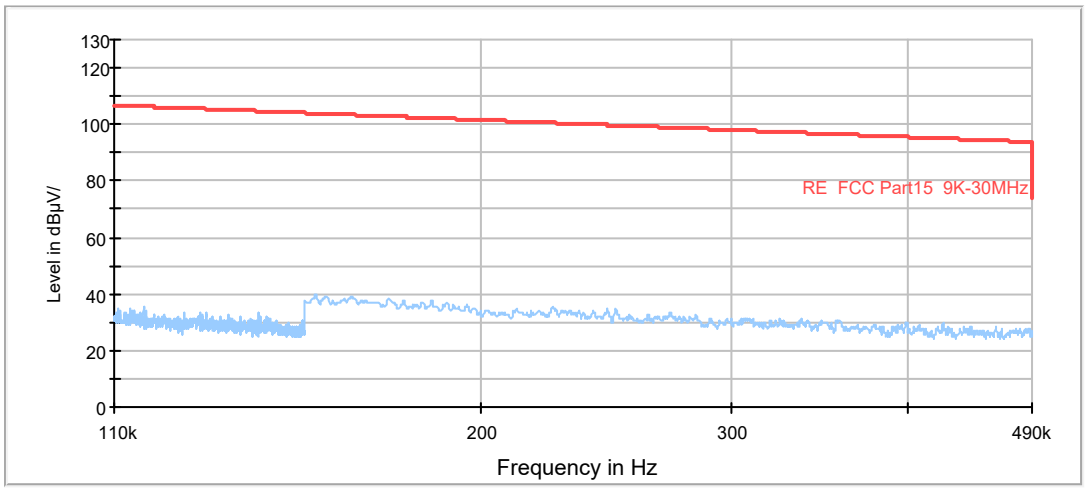
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



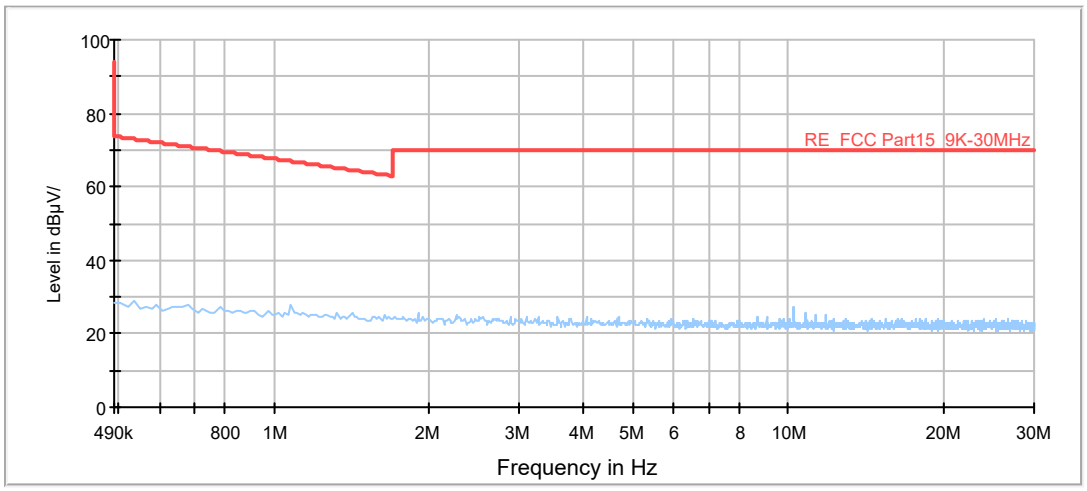
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV

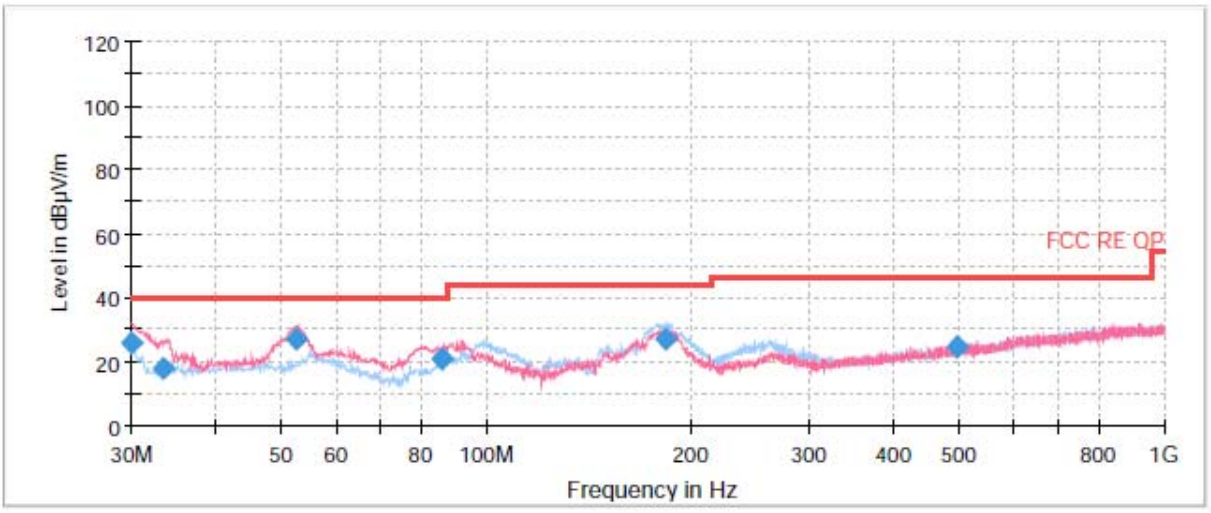


Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz



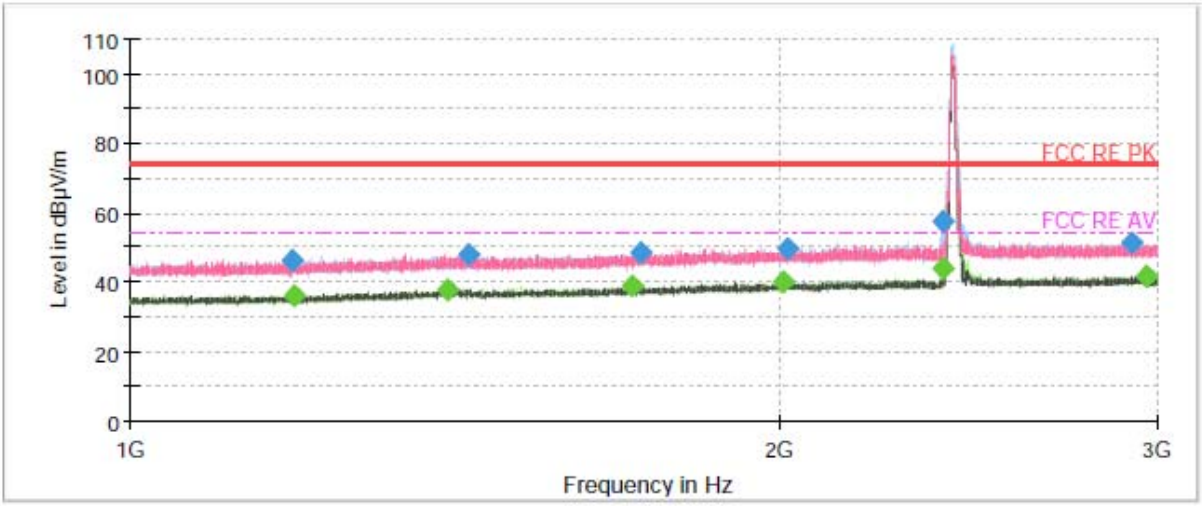
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.000000	25.92	118.0	V	36.0	12	14.08	40.00
33.401250	18.08	115.0	V	20.0	12	21.92	40.00
52.593750	27.21	100.0	V	322.0	14	12.79	40.00
86.223750	21.05	105.0	V	50.0	10	18.95	40.00
183.872500	27.23	180.0	H	277.0	11	16.27	43.50
495.682500	24.58	105.0	V	316.0	20	21.42	46.00

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

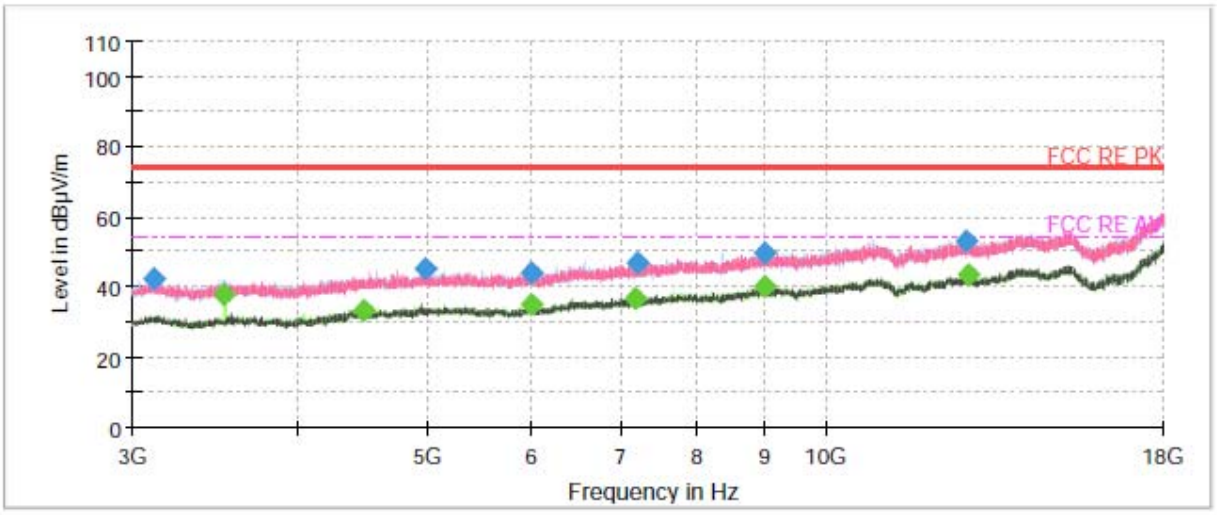
2. Margin = Limit – Quasi-Peak

802.11b CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

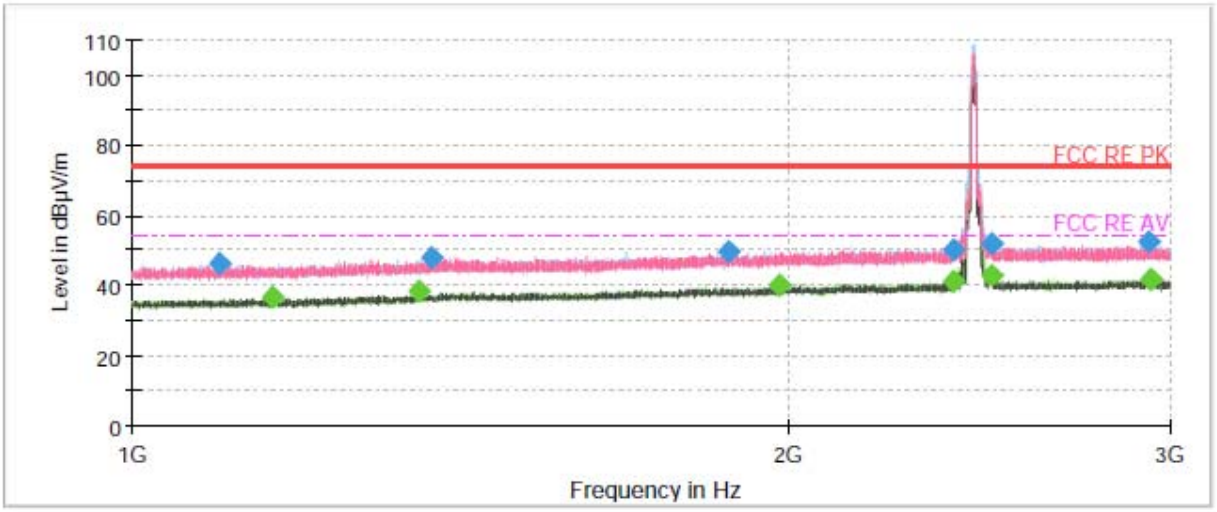


Radiates Emission from 3GHz to 18GHz

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)
1187.800000	46.47	---	74.00	27.53	200.0	V	134.0	-9
1192.600000	---	36.38	54.00	17.62	200.0	H	204.0	-9
1403.400000	---	38.00	54.00	16.00	200.0	V	65.0	-7
1434.933333	48.13	---	74.00	25.87	100.0	V	344.0	-7
1711.866667	---	38.70	54.00	15.30	200.0	H	154.0	-6
1724.600000	48.64	---	74.00	25.36	100.0	H	131.0	-6
2012.133333	---	39.96	54.00	14.04	200.0	H	303.0	-5
2019.000000	49.61	---	74.00	24.39	100.0	H	101.0	-5
2386.133333	57.72	---	74.00	16.28	100.0	H	0.0	-4
2387.400000	---	43.98	54.00	10.02	200.0	H	213.0	-4
2923.466667	51.56	---	74.00	22.44	100.0	H	171.0	-3
2964.066667	---	41.89	54.00	12.11	100.0	H	150.0	-3

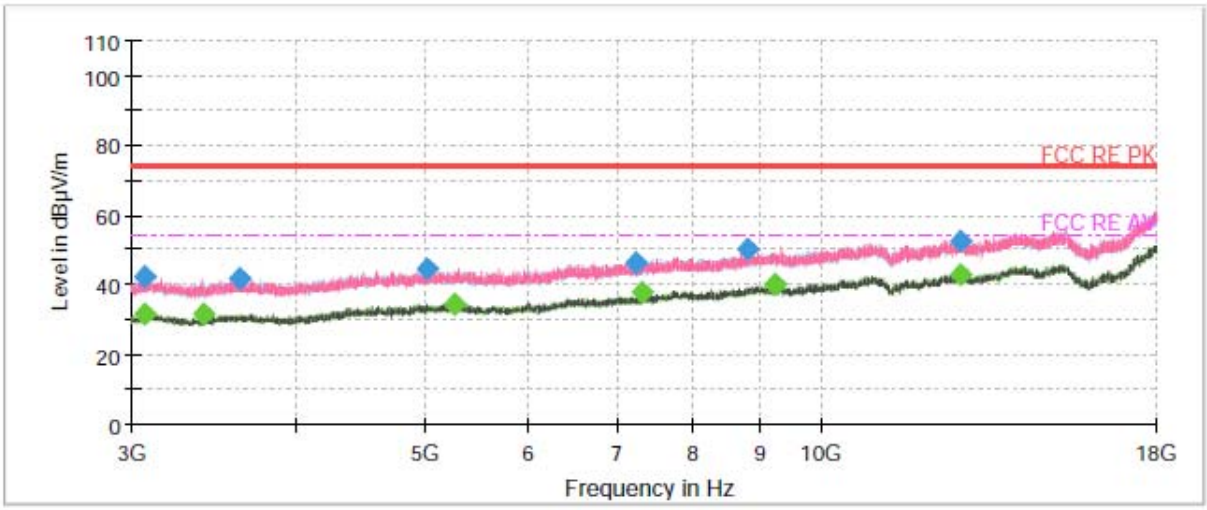
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

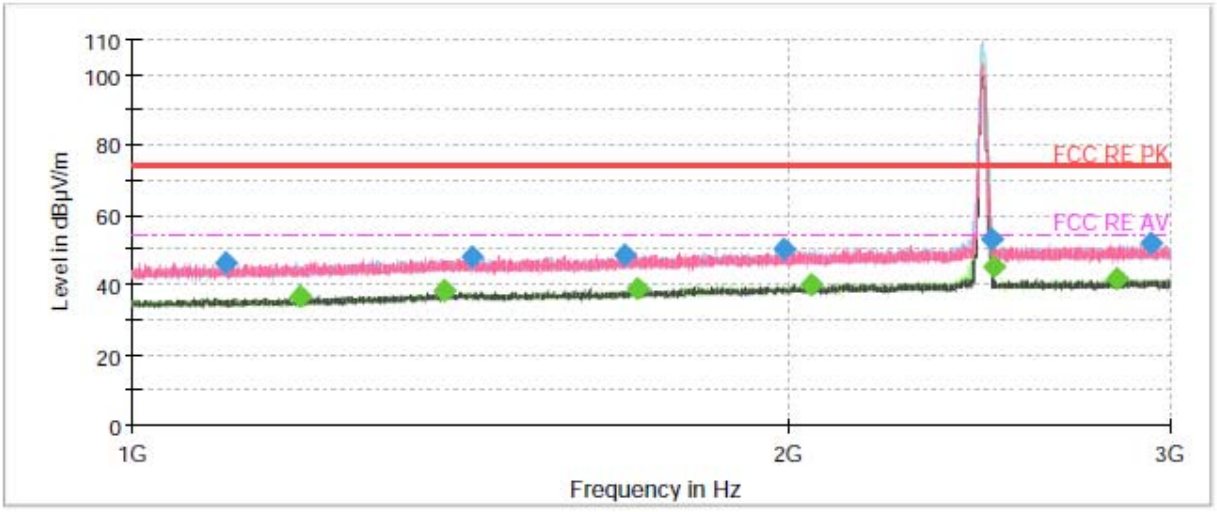


Radiates Emission from 3GHz to 18GHz

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)
1096.933333	46.11	---	74.00	27.89	100.0	V	330.0	-9
1159.333333	---	36.39	54.00	17.61	100.0	H	92.0	-9
1352.866667	---	38.14	54.00	15.86	100.0	H	292.0	-7
1373.266667	47.76	---	74.00	26.24	200.0	V	0.0	-7
1878.266667	49.67	---	74.00	24.33	200.0	V	150.0	-5
1985.133333	---	40.01	54.00	13.99	100.0	V	268.0	-5
2387.400000	---	41.06	54.00	12.94	100.0	H	210.0	-4
2387.933333	50.44	---	74.00	23.56	100.0	H	40.0	-4
2484.066667	51.96	---	74.00	22.04	200.0	H	0.0	-4
2484.066667	---	42.77	54.00	11.23	200.0	H	0.0	-4
2935.066667	52.55	---	74.00	21.45	100.0	V	348.0	-3
2943.200000	---	41.58	54.00	12.42	100.0	H	171.0	-3

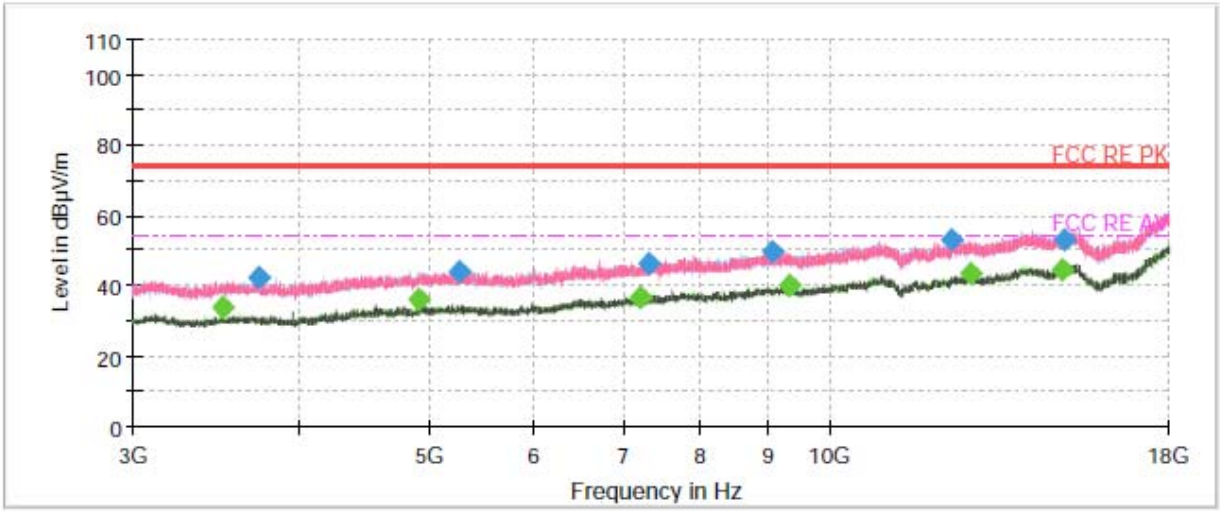
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

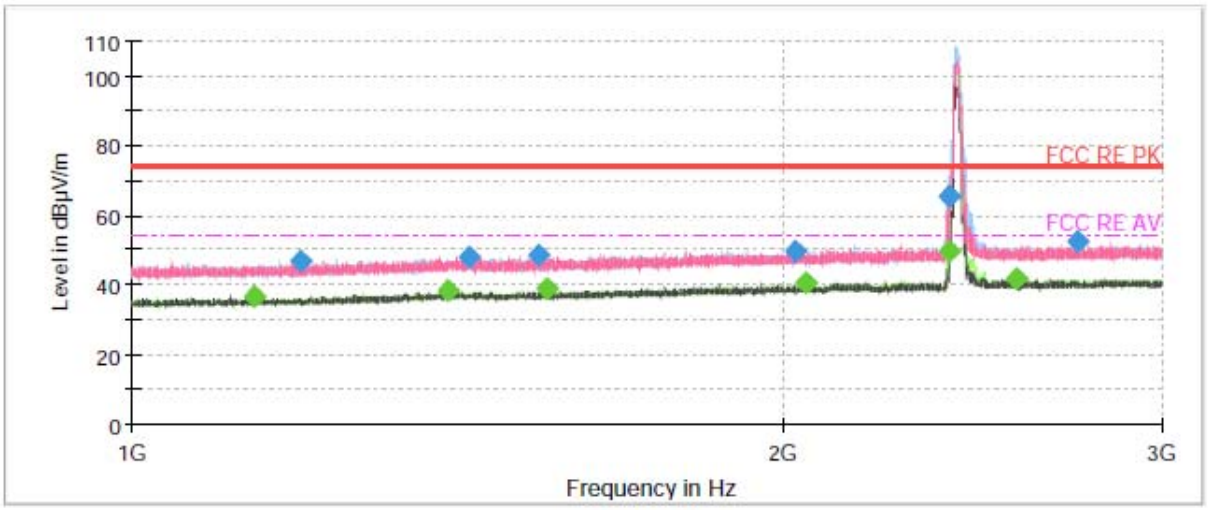


Radiates Emission from 3GHz to 18GHz

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)
1103.266667	46.51	---	74.00	27.49	200.0	H	298.0	-9
1193.266667	---	36.79	54.00	17.21	200.0	V	0.0	-9
1392.733333	---	38.27	54.00	15.73	100.0	V	305.0	-7
1432.533333	47.88	---	74.00	26.12	100.0	V	256.0	-7
1682.600000	48.61	---	74.00	25.39	200.0	V	154.0	-6
1707.066667	---	38.76	54.00	15.24	100.0	H	160.0	-6
1992.600000	50.38	---	74.00	23.62	100.0	H	131.0	-5
2053.933333	---	40.21	54.00	13.79	100.0	H	302.0	-5
2483.533333	53.04	---	74.00	20.96	100.0	H	200.0	-4
2489.000000	---	45.21	54.00	8.79	100.0	H	348.0	-4
2834.200000	---	41.99	54.00	12.01	100.0	V	206.0	-3
2942.733333	51.91	---	74.00	22.09	100.0	H	20.0	-3

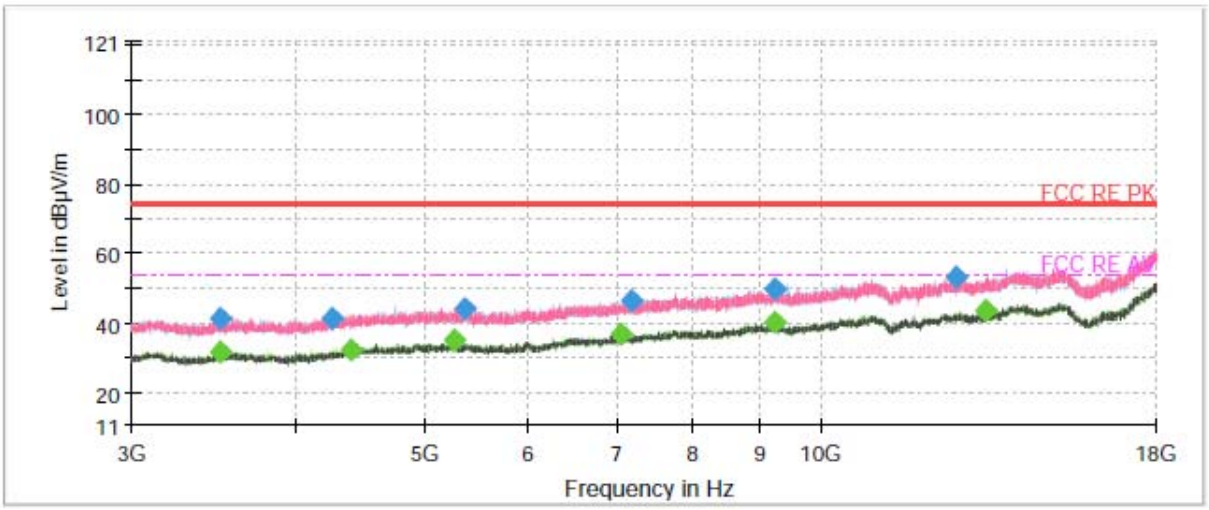
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

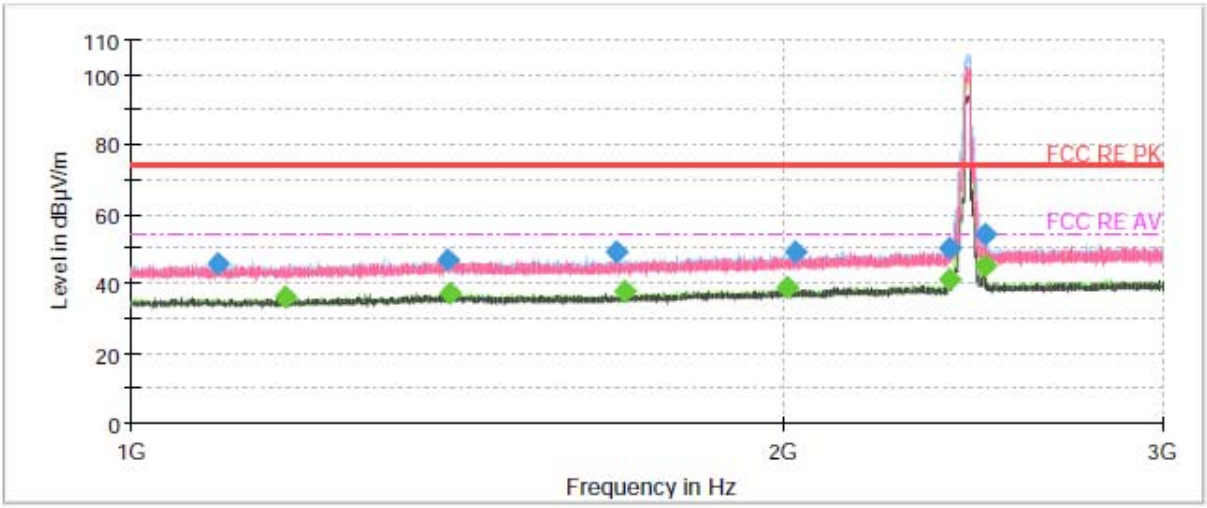


Radiates Emission from 3GHz to 18GHz

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)
1139.666667	---	36.62	54.00	17.38	200.0	H	267.0	-9
1197.866667	46.79	---	74.00	27.21	200.0	H	138.0	-9
1401.200000	---	38.62	54.00	15.38	100.0	H	198.0	-7
1433.333333	48.06	---	74.00	25.94	200.0	V	329.0	-7
1542.733333	48.65	---	74.00	25.35	100.0	H	100.0	-7
1557.933333	---	38.75	54.00	15.25	100.0	H	91.0	-7
2030.866667	49.89	---	74.00	24.11	100.0	V	266.0	-5
2050.466667	---	40.36	54.00	13.64	200.0	H	305.0	-5
2388.333333	65.43	---	74.00	8.57	100.0	H	62.0	-4
2389.000000	---	49.62	54.00	4.38	100.0	H	228.0	-4
2568.466667	---	41.93	54.00	12.07	200.0	H	315.0	-4
2739.733333	52.27	---	74.00	21.73	200.0	V	10.0	-4

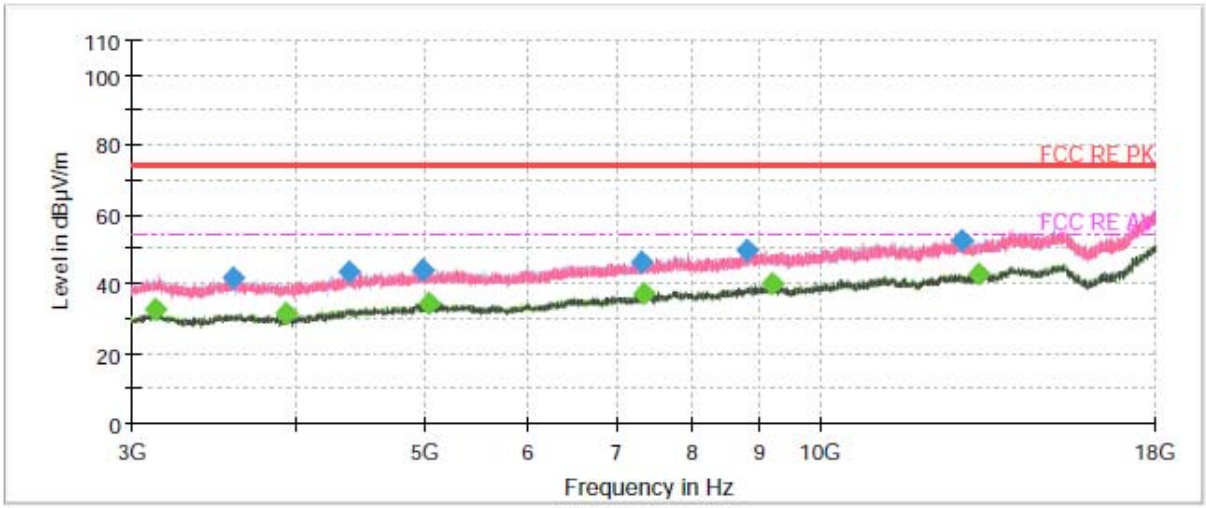
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

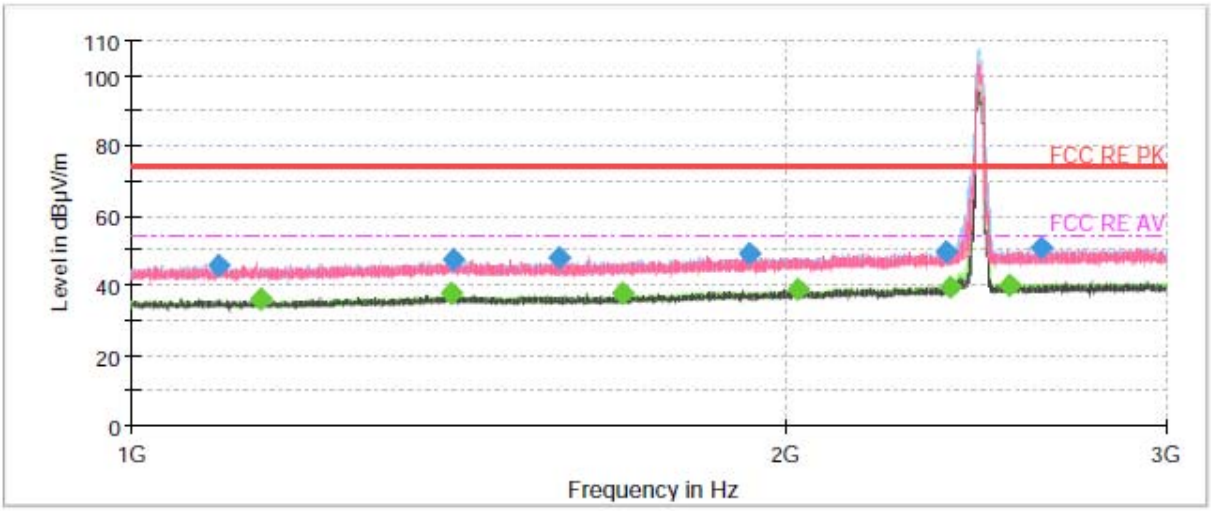


Radiates Emission from 3GHz to 18GHz

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)
1096.466667	45.84	---	74.00	28.16	200.0	H	85.0	-9
1177.800000	---	35.84	54.00	18.16	200.0	H	247.0	-9
1401.133333	46.88	---	74.00	27.12	100.0	H	267.0	-7
1402.333333	---	37.46	54.00	16.54	200.0	H	336.0	-7
1677.333333	48.81	---	74.00	25.19	100.0	H	346.0	-6
1689.933333	---	37.57	54.00	16.43	200.0	H	0.0	-6
2009.666667	---	39.12	54.00	14.88	100.0	H	141.0	-5
2027.600000	48.81	---	74.00	25.19	100.0	H	355.0	-5
2388.866667	50.20	---	74.00	23.80	200.0	H	55.0	-4
2389.200000	---	41.21	54.00	12.79	100.0	H	355.0	-4
2482.533333	54.12	---	74.00	19.88	100.0	H	193.0	-4
2483.066667	---	45.24	54.00	8.76	200.0	H	195.0	-4

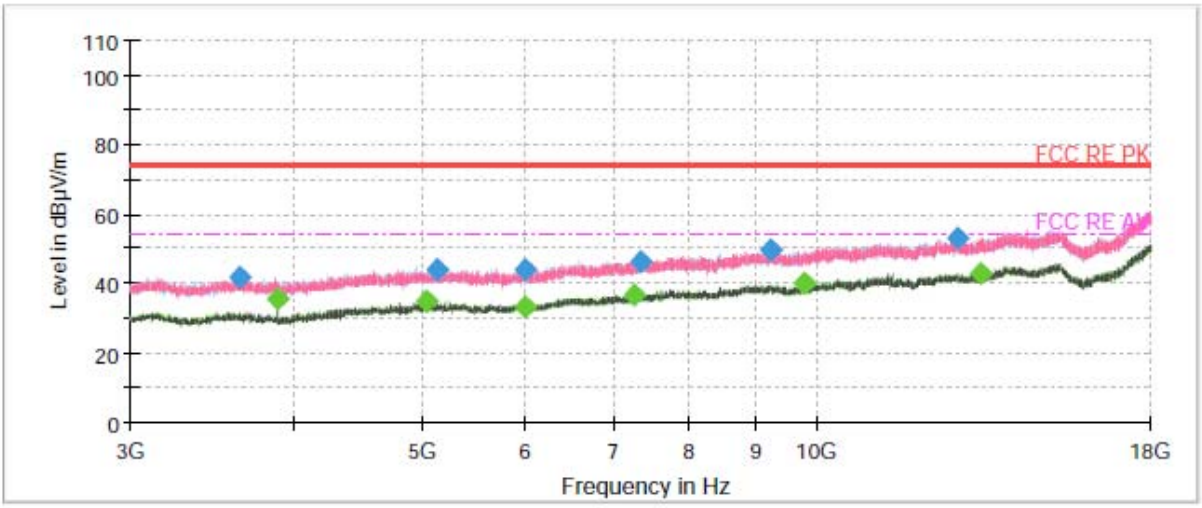
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

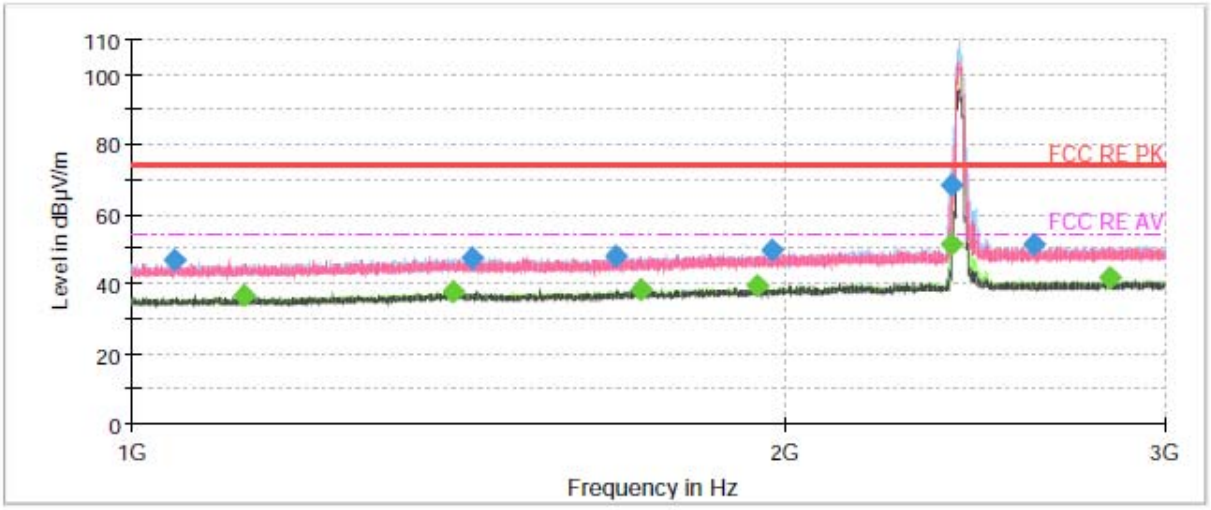


Radiates Emission from 3GHz to 18GHz

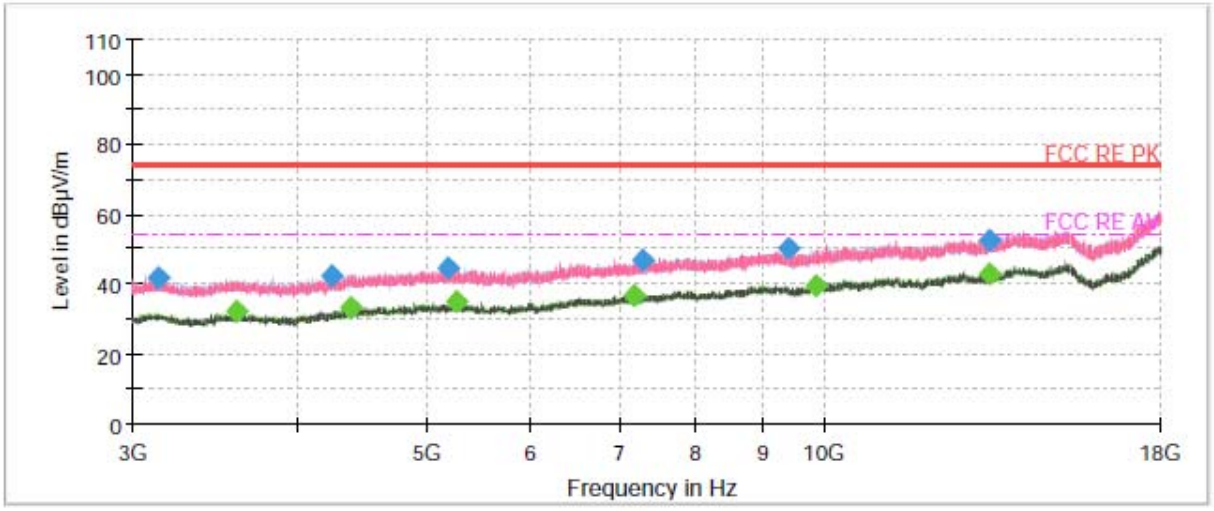
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1097.000000	45.92	---	74.00	28.08	100.0	V	32.0	-9
1146.933333	---	36.07	54.00	17.93	100.0	V	0.0	-9
1404.000000	---	37.56	54.00	16.44	100.0	V	32.0	-7
1406.000000	47.16	---	74.00	26.84	100.0	V	136.0	-7
1575.066667	47.69	---	74.00	26.31	200.0	H	119.0	-6
1684.466667	---	37.67	54.00	16.33	200.0	H	240.0	-6
1927.666667	48.81	---	74.00	25.19	100.0	H	242.0	-5
2031.400000	---	39.10	54.00	14.90	200.0	H	358.0	-5
2377.266667	49.87	---	74.00	24.13	100.0	V	22.0	-4
2384.000000	---	39.70	54.00	14.30	100.0	V	0.0	-4
2537.733333	---	40.05	54.00	13.95	200.0	H	200.0	-4
2630.333333	50.54	---	74.00	23.46	100.0	V	146.0	-4

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

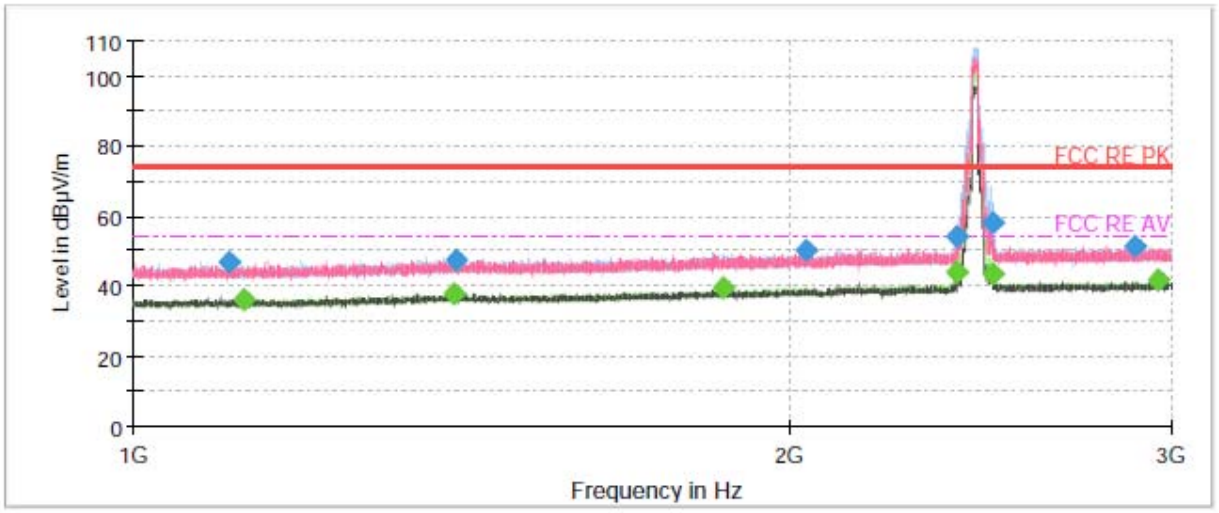


Radiates Emission from 3GHz to 18GHz

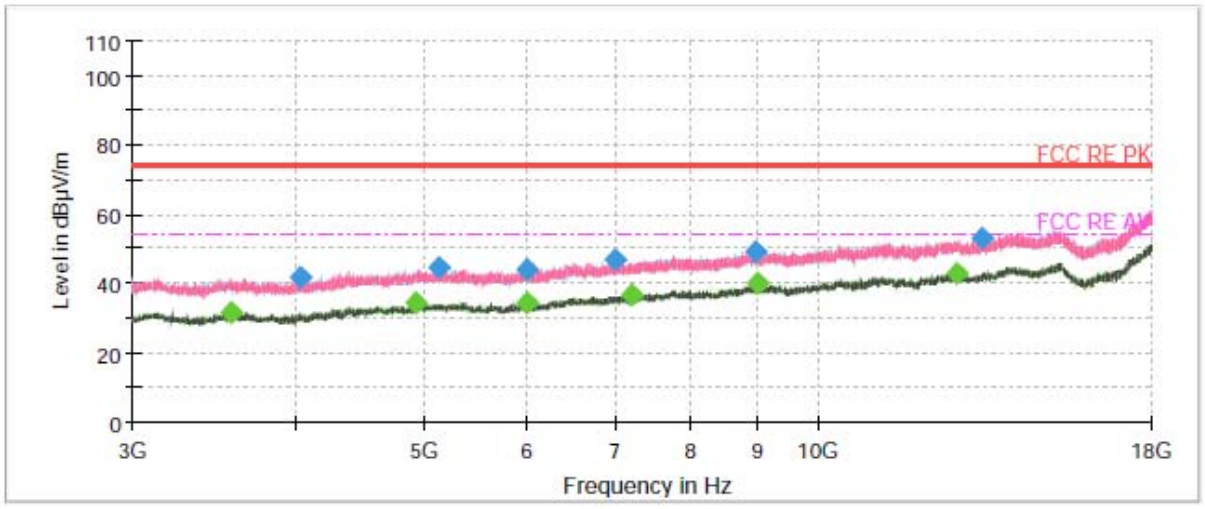
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1046.000000	46.81	---	74.00	27.19	200.0	V	232.0	-10
1126.800000	---	36.77	54.00	17.23	200.0	H	85.0	-9
1407.866667	---	37.84	54.00	16.16	200.0	H	156.0	-7
1436.666667	47.54	---	74.00	26.46	100.0	H	263.0	-7
1674.200000	47.97	---	74.00	26.03	200.0	V	302.0	-6
1716.666667	---	38.42	54.00	15.58	200.0	H	2.0	-6
1946.600000	---	39.53	54.00	14.47	100.0	V	145.0	-5
1977.066667	49.54	---	74.00	24.46	100.0	H	192.0	-5
2388.533333	68.23	---	74.00	5.77	100.0	H	357.0	-4
2389.333333	---	51.48	54.00	2.52	100.0	H	354.0	-4
2607.866667	51.42	---	74.00	22.58	100.0	V	1.0	-4
2829.066667	---	41.54	54.00	12.46	100.0	H	325.0	-3

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

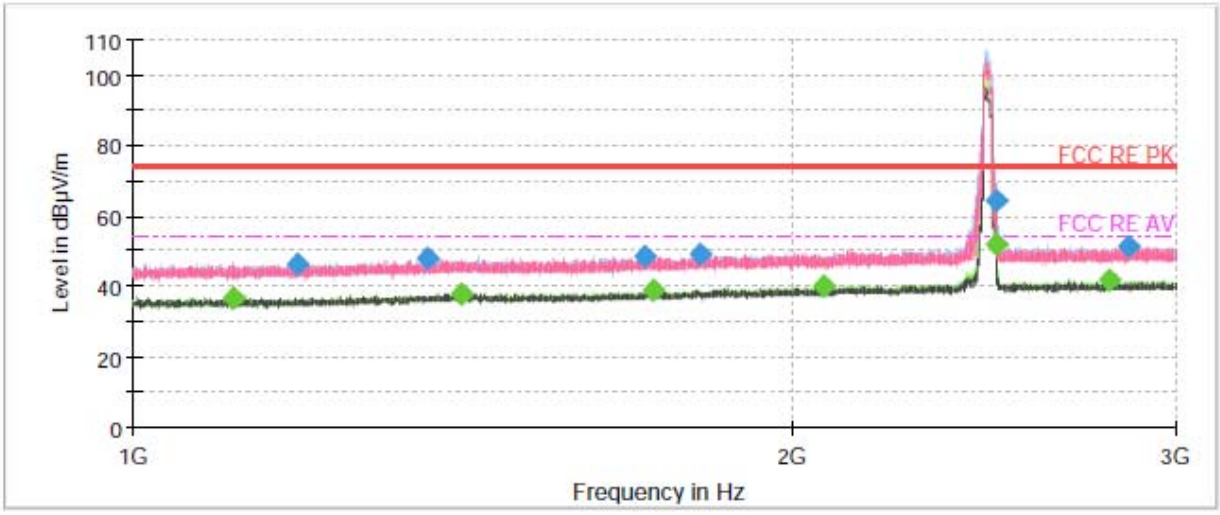


Radiates Emission from 3GHz to 18GHz

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)
1105.333333	46.57	---	74.00	27.43	100.0	V	94.0	-9
1124.800000	---	36.32	54.00	17.68	200.0	V	258.0	-9
1402.533333	---	37.83	54.00	16.17	100.0	V	208.0	-7
1405.933333	47.53	---	74.00	26.47	200.0	H	205.0	-7
1866.066667	---	39.64	54.00	14.36	200.0	H	175.0	-5
2037.133333	50.41	---	74.00	23.59	100.0	H	336.0	-5
2388.933333	54.16	---	74.00	19.84	200.0	H	194.0	-4
2389.133333	---	43.78	54.00	10.22	100.0	H	326.0	-4
2484.200000	58.05	---	74.00	15.95	200.0	H	205.0	-4
2484.333333	---	43.54	54.00	10.46	100.0	H	223.0	-4
2886.133333	51.20	---	74.00	22.80	100.0	V	44.0	-3
2958.666667	---	41.68	54.00	12.32	100.0	H	122.0	-3

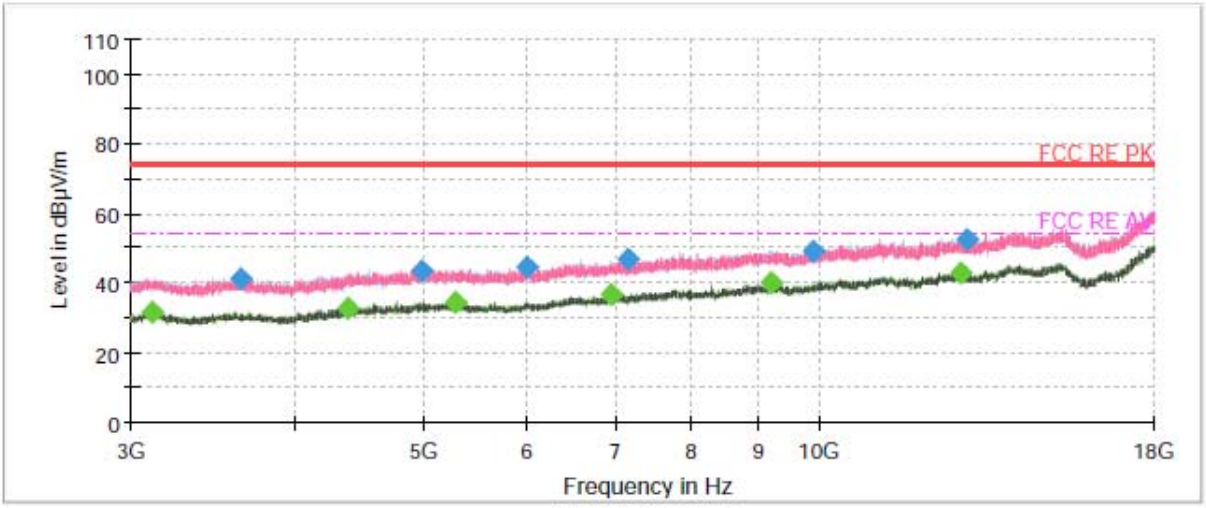
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

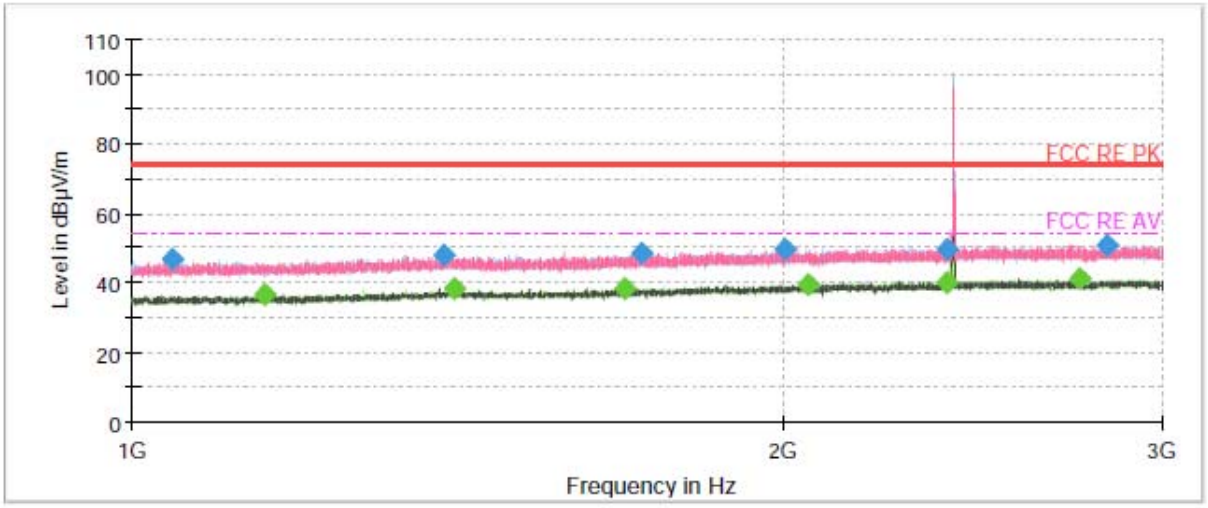


Radiates Emission from 3GHz to 18GHz

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)
1111.733333	---	36.91	54.00	17.09	200.0	H	40.0	-9
1188.400000	46.49	---	74.00	27.51	200.0	H	178.0	-9
1364.600000	47.81	---	74.00	26.19	200.0	H	89.0	-7
1413.600000	---	37.88	54.00	16.12	100.0	H	358.0	-7
1715.266667	48.48	---	74.00	25.52	200.0	H	89.0	-6
1731.666667	---	38.64	54.00	15.36	100.0	H	358.0	-6
1817.866667	49.31	---	74.00	24.69	100.0	H	185.0	-6
2069.333333	---	39.83	54.00	14.17	100.0	H	274.0	-5
2483.533333	64.44	---	74.00	9.56	100.0	H	215.0	-4
2483.600000	---	51.79	54.00	2.21	200.0	H	2.0	-4
2796.733333	---	41.90	54.00	12.10	200.0	H	149.0	-4
2857.333333	51.51	---	74.00	22.49	100.0	V	6.0	-3

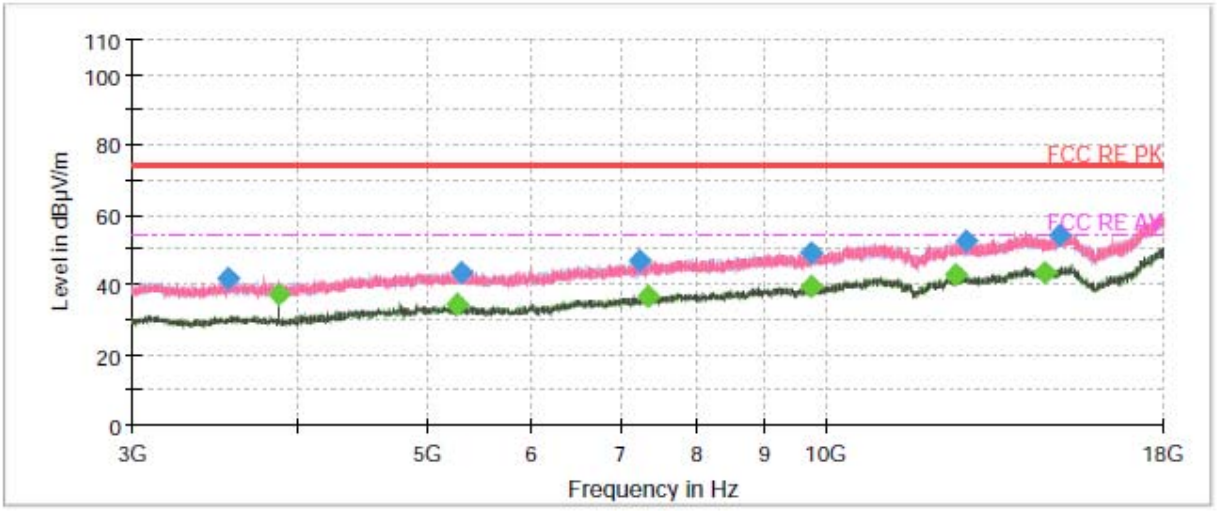
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

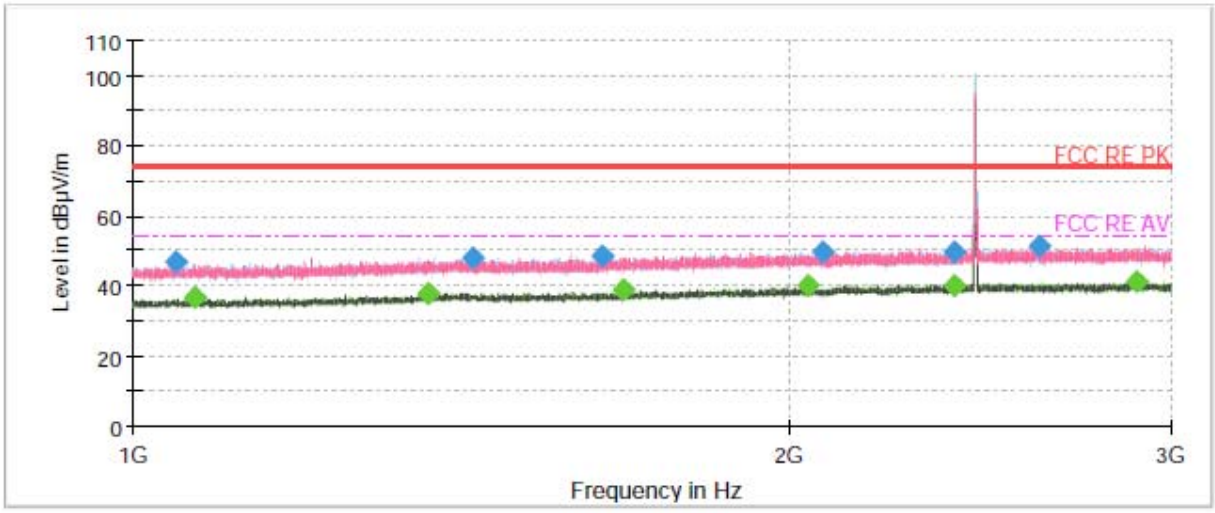


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1043.133333	46.92	---	74.00	27.08	100.0	H	8.0	-10
1152.066667	---	36.60	54.00	17.40	200.0	V	264.0	-9
1395.000000	48.21	---	74.00	25.79	100.0	H	328.0	-7
1408.733333	---	38.30	54.00	15.70	200.0	H	259.0	-7
1690.000000	---	38.45	54.00	15.55	100.0	H	61.0	-6
1723.266667	48.45	---	74.00	25.55	100.0	H	8.0	-6
2007.133333	49.78	---	74.00	24.22	100.0	V	358.0	-5
2059.066667	---	39.65	54.00	14.35	100.0	V	358.0	-5
2385.400000	49.72	---	74.00	24.28	100.0	H	8.0	-4
2385.466667	---	39.94	54.00	14.06	100.0	H	13.0	-4
2749.266667	---	41.21	54.00	12.79	100.0	V	0.0	-4
2831.133333	50.93	---	74.00	23.07	200.0	V	317.0	-3

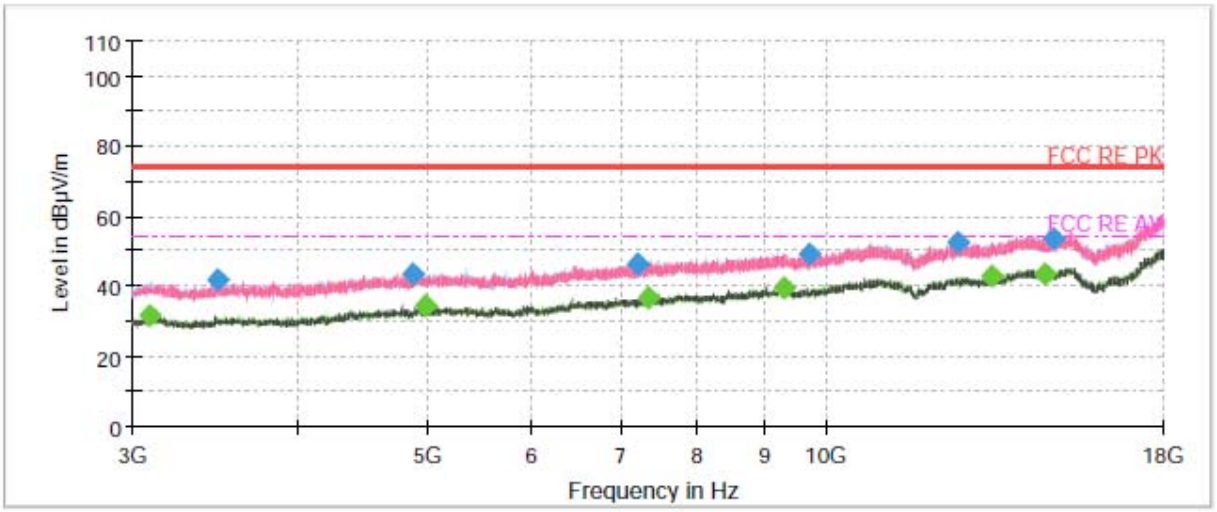
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 19



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

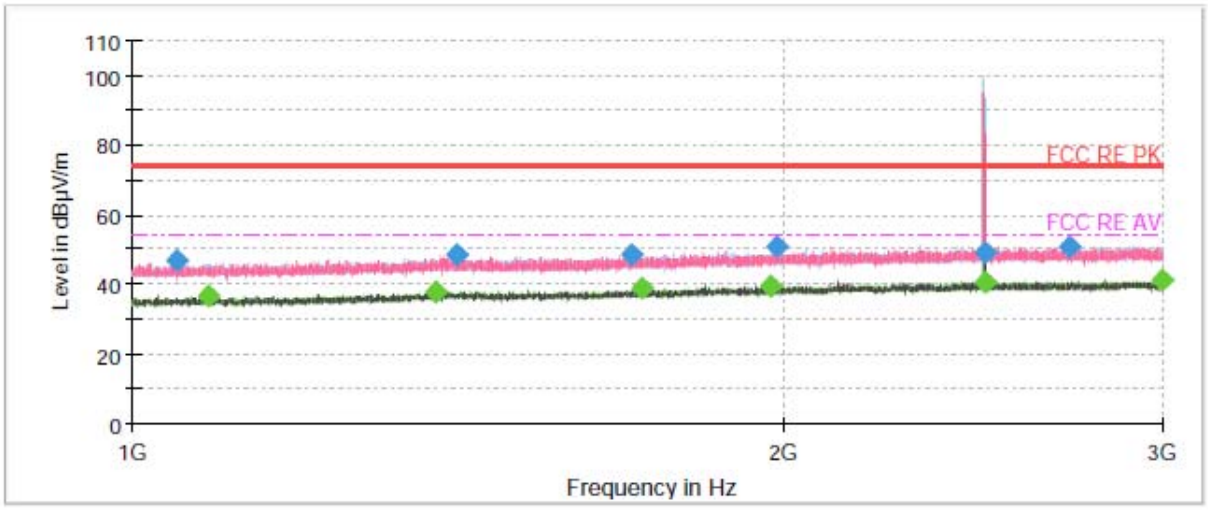


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1045.666667	46.82	---	74.00	27.18	200.0	V	121.0	-10
1068.200000	---	36.47	54.00	17.53	200.0	V	161.0	-9
1367.666667	---	38.02	54.00	15.98	100.0	V	251.0	-7
1431.466667	47.94	---	74.00	26.06	100.0	H	97.0	-7
1643.200000	48.52	---	74.00	25.48	100.0	V	355.0	-6
1682.066667	---	38.67	54.00	15.33	100.0	V	301.0	-6
2042.400000	---	39.96	54.00	14.04	200.0	V	121.0	-5
2075.733333	49.65	---	74.00	24.35	200.0	V	276.0	-5
2386.266667	---	40.09	54.00	13.91	100.0	V	0.0	-4
2387.600000	49.49	---	74.00	24.51	100.0	V	211.0	-4
2607.333333	51.08	---	74.00	22.92	200.0	H	359.0	-4
2893.933333	---	40.94	54.00	13.06	200.0	H	209.0	-3

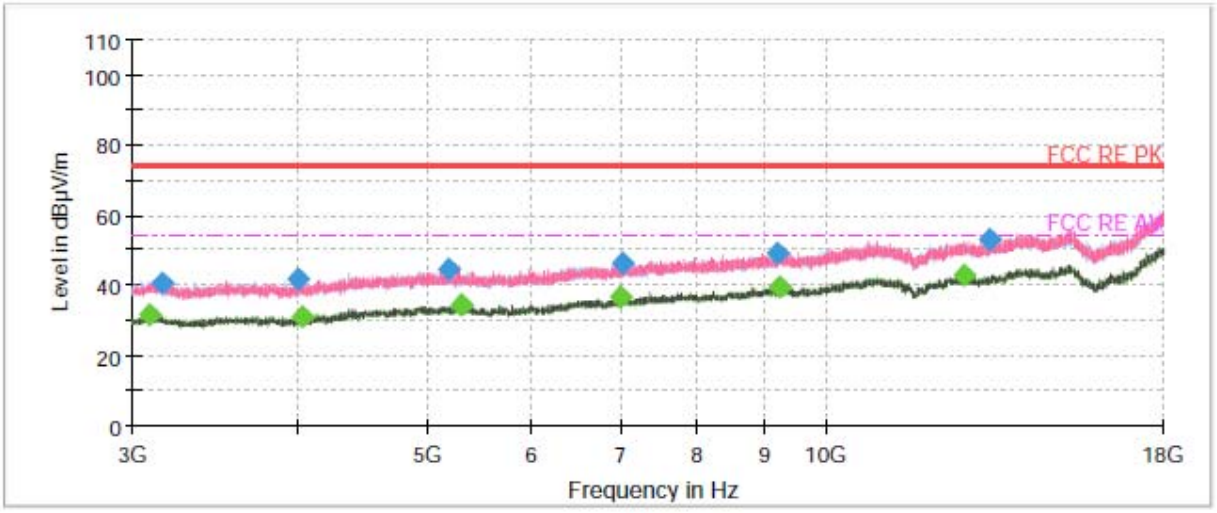
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

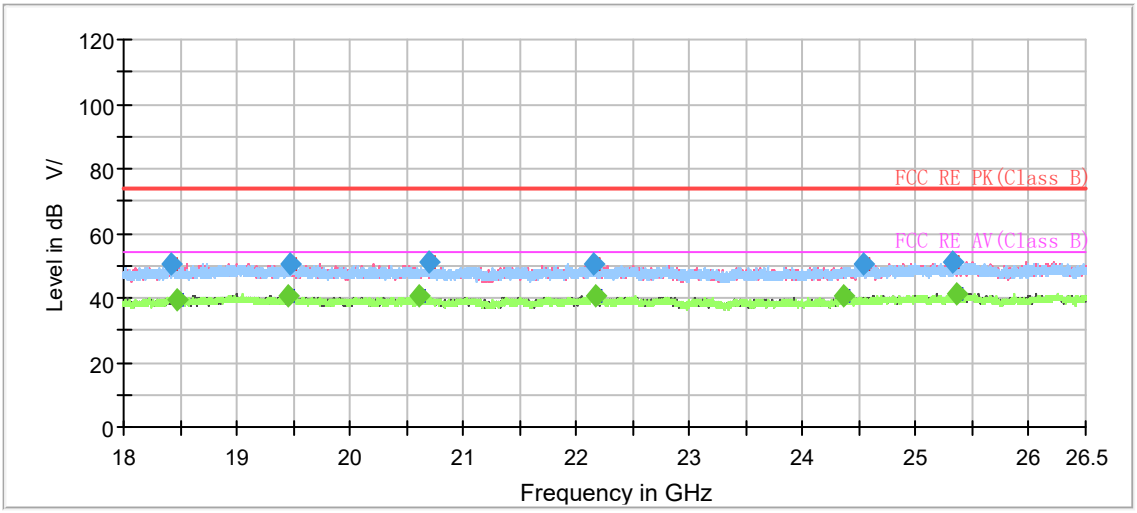


Radiates Emission from 3GHz to 18GHz

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)
1047.333333	46.86	---	74.00	27.14	200.0	V	48.0	-9
1083.733333	---	36.66	54.00	17.34	200.0	H	0.0	-9
1382.600000	---	37.82	54.00	16.18	100.0	V	301.0	-7
1412.800000	48.28	---	74.00	25.72	100.0	H	0.0	-7
1704.666667	48.24	---	74.00	25.76	100.0	H	9.0	-6
1721.933333	---	38.66	54.00	15.34	200.0	V	140.0	-6
1973.733333	---	39.49	54.00	14.51	100.0	H	5.0	-5
1987.200000	50.97	---	74.00	23.03	100.0	H	15.0	-5
2483.933333	---	40.88	54.00	13.12	100.0	V	150.0	-4
2484.000000	49.03	---	74.00	24.97	200.0	H	347.0	-4
2716.133333	50.99	---	74.00	23.01	200.0	H	289.0	-4
2999.200000	---	41.23	54.00	12.77	100.0	H	3.0	-3

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, 802.11g, Channel 1 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

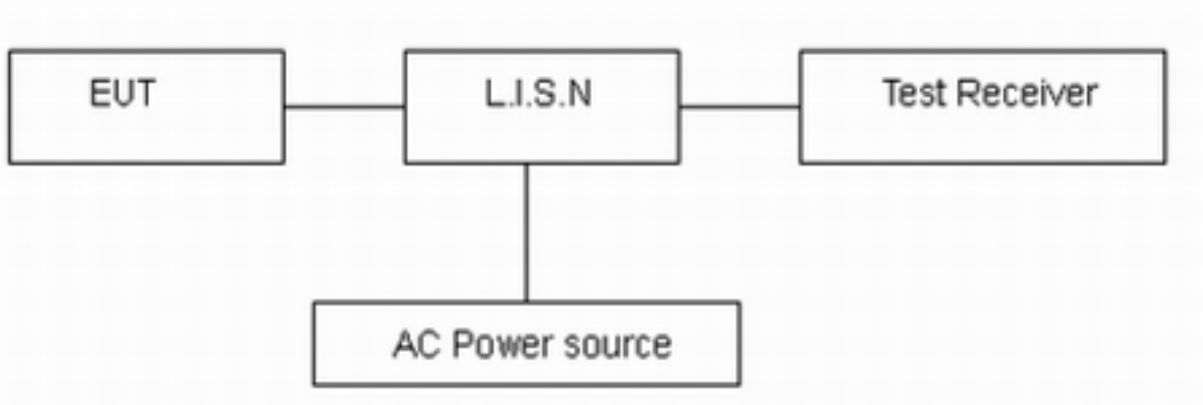
Ambient condition

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

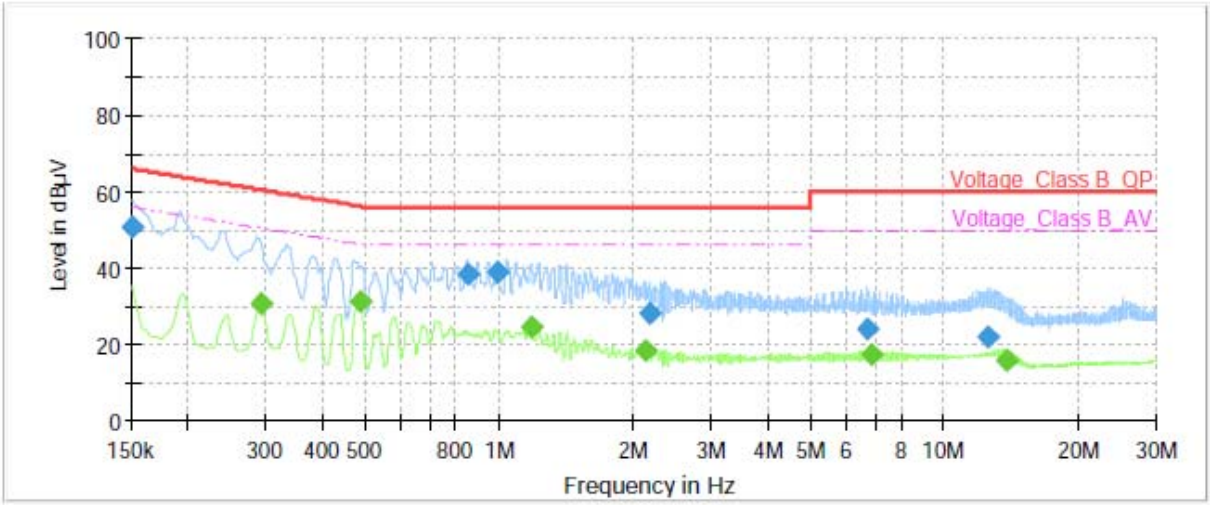
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

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:

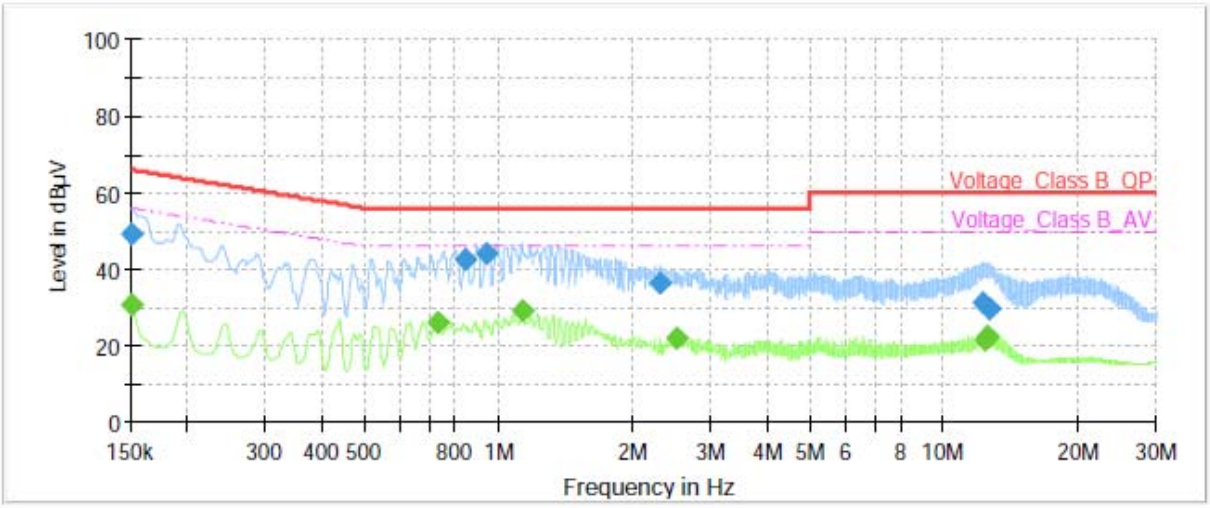
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G /Bluetooth LE) with all channels, 802.11g, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	50.85	---	66.00	15.15	70.0	9.000	L1	ON	21
0.29	---	30.86	50.47	19.61	70.0	9.000	L1	ON	21
0.49	---	31.21	46.21	15.00	70.0	9.000	L1	ON	20
0.85	38.69	---	56.00	17.31	70.0	9.000	L1	ON	20
0.99	38.88	---	56.00	17.12	70.0	9.000	L1	ON	20
1.18	---	24.81	46.00	21.19	70.0	9.000	L1	ON	20
2.12	---	18.51	46.00	27.49	70.0	9.000	L1	ON	20
2.18	28.22	---	56.00	27.78	70.0	9.000	L1	ON	20
6.75	23.94	---	60.00	36.06	70.0	9.000	L1	ON	20
6.88	---	17.52	50.00	32.48	70.0	9.000	L1	ON	20
12.46	21.81	---	60.00	38.19	70.0	9.000	L1	ON	20
13.76	---	16.09	50.00	33.91	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)
0.15	49.38	---	66.00	16.62	70.0	9.000	N	ON	21
0.15	---	31.01	56.00	24.99	70.0	9.000	N	ON	21
0.74	---	26.19	46.00	19.81	70.0	9.000	N	ON	20
0.84	42.54	---	56.00	13.46	70.0	9.000	N	ON	20
0.94	44.29	---	56.00	11.71	70.0	9.000	N	ON	20
1.13	---	29.16	46.00	16.84	70.0	9.000	N	ON	20
2.31	36.39	---	56.00	19.61	70.0	9.000	N	ON	20
2.50	---	22.26	46.00	23.74	70.0	9.000	N	ON	19
12.19	31.44	---	60.00	28.56	70.0	9.000	N	ON	20
12.32	---	21.72	50.00	28.28	70.0	9.000	N	ON	20
12.57	---	22.63	50.00	27.37	70.0	9.000	N	ON	20
12.70	29.86	---	60.00	30.14	70.0	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
Universal Radio Communication Tester	R&S	CMW500	150415	2021-05-15	2022-05-14
Spectrum Analyzer	Keysight	N9020A	MY52330084	2021-05-15	2022-05-14
Universal Radio Communication Tester	Agilent	E5515C	GB44400275	2021-05-15	2022-05-14
Spectrum Analyzer	R&S	FSV3030	101411	2020-12-13	2021-12-12
Wideband radio communication tester	R&S	CMW500	113645	2021-05-15	2022-05-14
Artificial main network	R&S	ENV216	101171	2020-12-13	2022-12-12
EMI Test Receiver	R&S	ESR	101667	2021-05-15	2022-05-14
EMI Test Receiver	R&S	ESR	102389	2020-12-13	2021-12-12
Signal Analyzer	R&S	FSV40	100815	2020-12-13	2021-12-12
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2020-05-05	2023-05-04
Horn Antenna	Schwarzbeck	BBHA 9120D	430	2018-07-07	2023-07-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2023-06-19
Horn Antenna	STEATITE	QSH-SL-26 -40-K-15	16779	2019-12-24	2022-12-23
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.