

RF TEST REPORT

Applicant	Zonar Systems
FCC ID	SEJ-V4B2
Product	Zonar Telematics Control Unit
Brand	Zonar
Model	V4B2
Report No.	R2411A1779-R2V1
Issue Date	January 16, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. 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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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	January 14, 2025
Rev.1	Updated information.	January 16, 2025
Note: This revised report (Report No.: R2411A1779-R2V1) supersedes and replaces the previously issued report (Report No.: R2411A1779-R2). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict	Note
1	Maximum output power	15.247(b)(3)	Only tested 802.11b CH11; 802.11g CH10/11; 802.11n HT20 CH10/11 and PASS	Other Band please Refer to the Module report (Report No.: BTL-FCCP-1-2111H032; BTL-FCCP-2-2111H032, FCC ID: XMR20211108FC41D, Grant date:01/18/2022)
2	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	Only tested 802.11g CH10; 802.11n HT20 CH10 and PASS	
3	Power spectral density	15.247(e)	Only tested 802.11b CH11; 802.11g CH10/11; 802.11n HT20 CH10/11 and PASS	
4	Band Edge	15.247(d)	Only tested 802.11b CH11; 802.11g CH10/11; 802.11n HT20 CH10/11 and PASS	
5	Spurious RF Conducted Emissions	15.247(d)	Only tested 802.11b CH11; 802.11g CH10/11; 802.11n HT20 CH10/11 and PASS	
6	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS	/
7	Conducted Emissions	15.207	PASS	/
Date of Testing: December 2, 2024 ~ December 24 2024				
Date of Sample Received: November 19, 2024				
Note: All indications of Pass/Fail in this report are opinions expressed by Eurofins 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 **Eurofins 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)

Eurofins 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)

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

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
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Website: <https://www.eurofins.com/electrical-and-electronics>
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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Zonar Systems
Applicant address	821 2nd Ave., Suite 1100, Seattle Washington 98104, United States
Manufacturer	Zonar Systems
Manufacturer address	821 2nd Ave., Suite 1100, Seattle Washington 98104, United States

2.2. General Information

EUT Description	
Model	V4B2
Lab internal SN	R2411A1779/S01
Hardware Version	V1.0.0
Software Version	V1.0.0
Power Supply	External power supply
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	0.7 dBi
Additional Beamforming Gain	NA
Operating Frequency Range(s)	802.11b/g/n(HT20: 2412 ~ 2462 MHz Bluetooth LE V5.2: 2402 ~2480 MHz
Modulation Type	802.11b: DSSS 802.11g/n: OFDM Bluetooth LE: GFSK
Max. Output Power	Wi-Fi 2.4G: 22.58 dBm (from module report) Bluetooth LE: 7.22 dBm (from module report)
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

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 (2024) 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

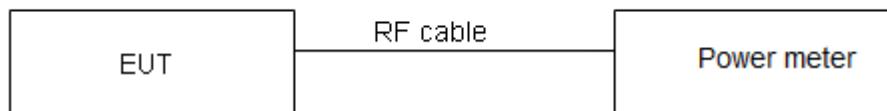
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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."

Output Power	$\leq 1\text{W (30dBm)}$
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Measurement Uncertainty

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

Test Results

Power Index			
Channel	802.11b	802.11g	802.11n HT20
CH10	--	NA	NA
CH11	11	34	34

Test Mode	Carrier frequency (MHz)/ Channel	Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2462/CH11	14.32	30	PASS
802.11g	2457/CH 10	21.08	30	PASS
	2462/CH11	15.58	30	PASS
802.11n HT20	2457/CH 10	19.97	30	PASS
	2462/CH11	15.40	30	PASS

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

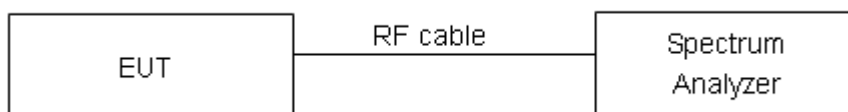
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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
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Measurement Uncertainty

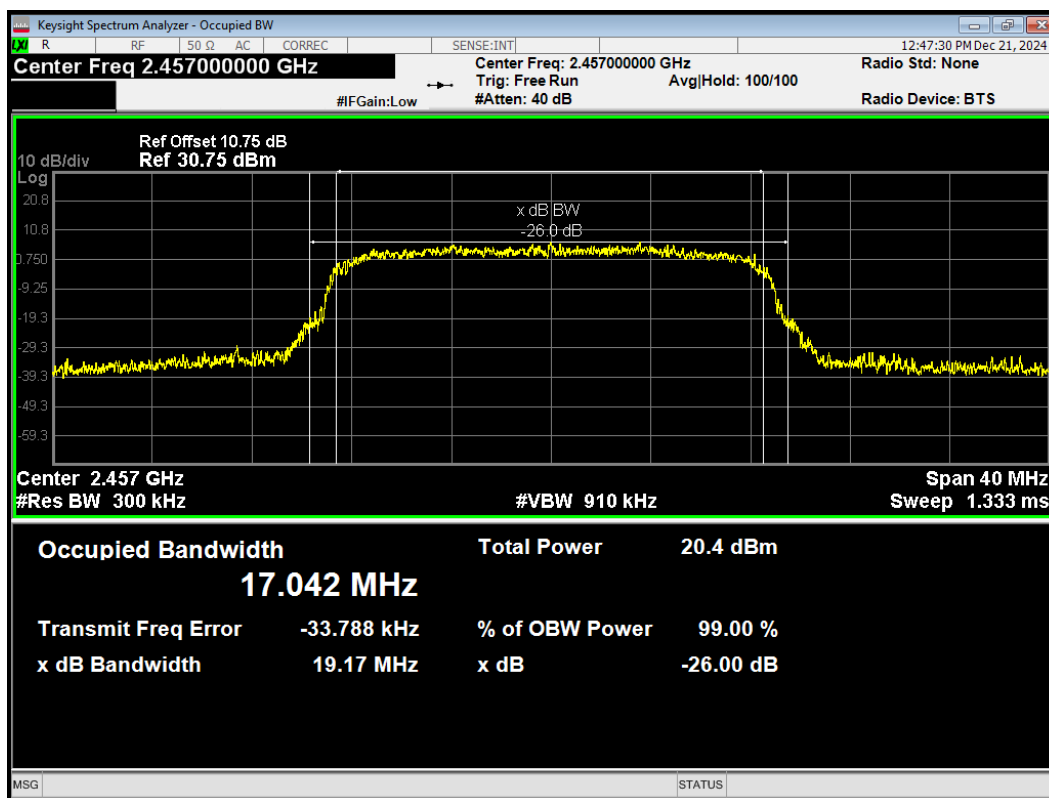
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

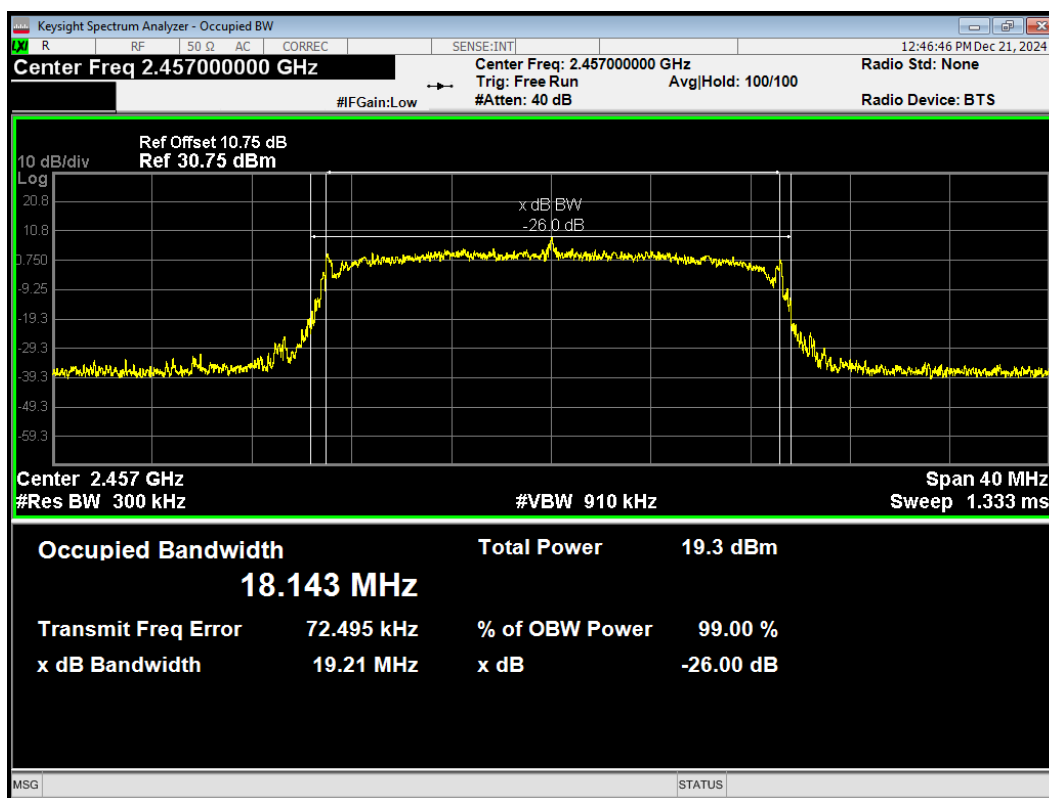
Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11g	2457	17.042	15.687	500	PASS
802.11n HT20	2457	18.143	15.391	500	PASS

99%bandwidth

OBW 802.11g 2457MHz

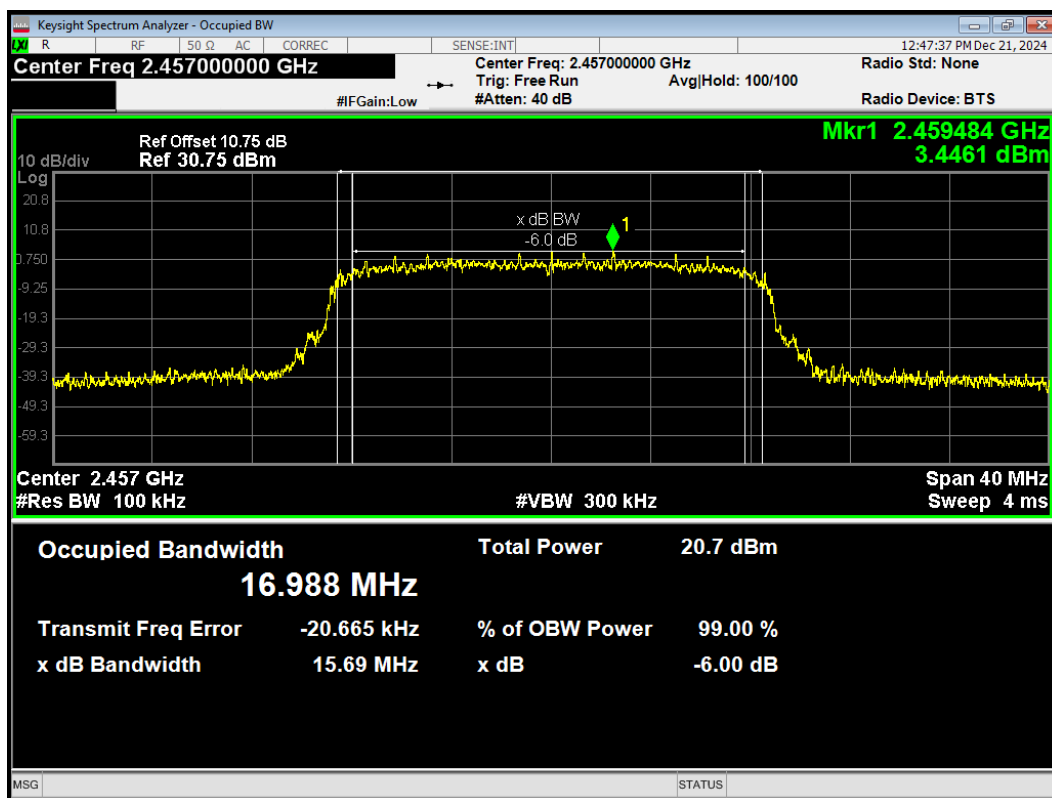


OBW 802.11n(HT20) 2457MHz

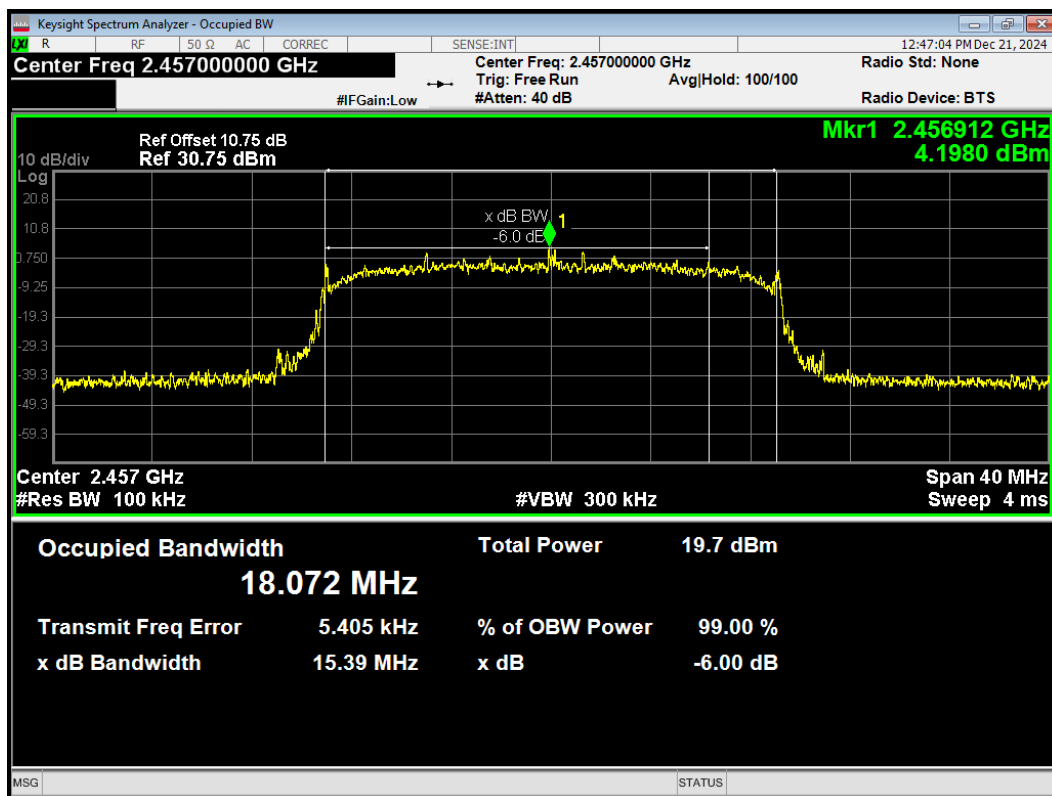


6 dB bandwidth

-6dB Bandwidth 802.11g 2457MHz



-6dB Bandwidth 802.11n(HT20) 2457MHz



5.3. Band Edge

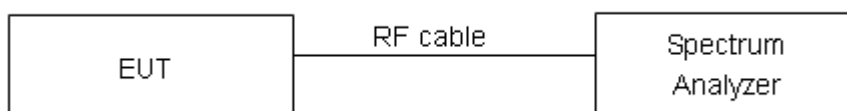
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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.”

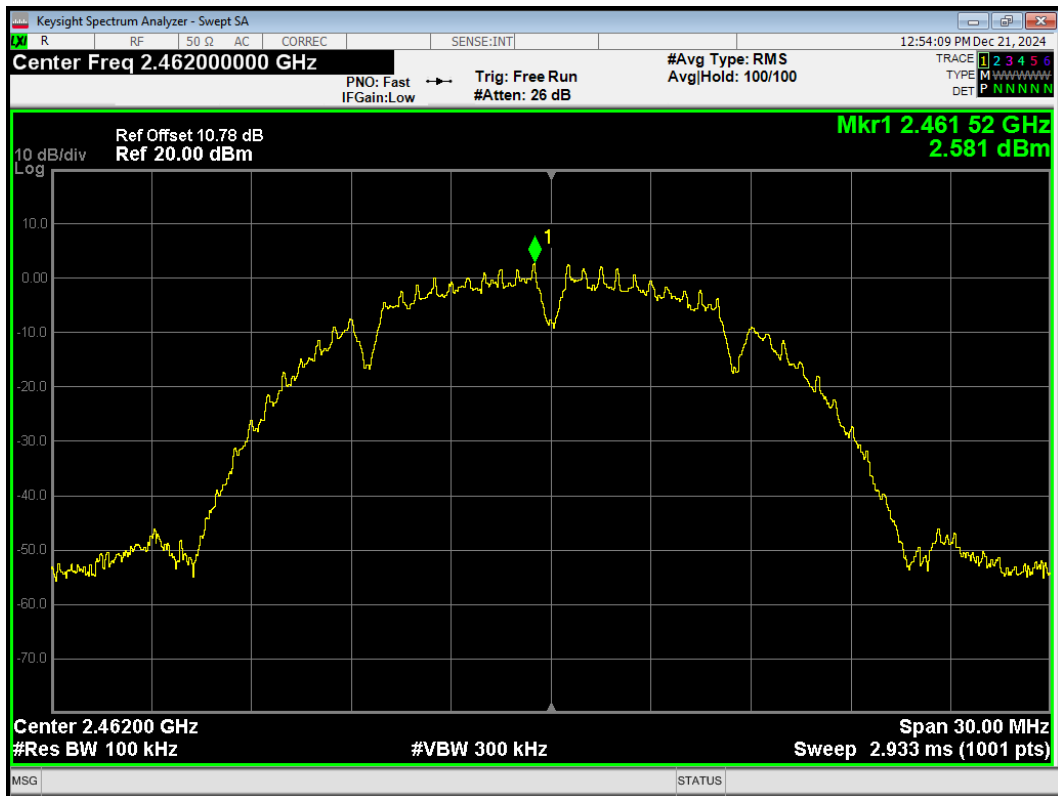
Measurement Uncertainty

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

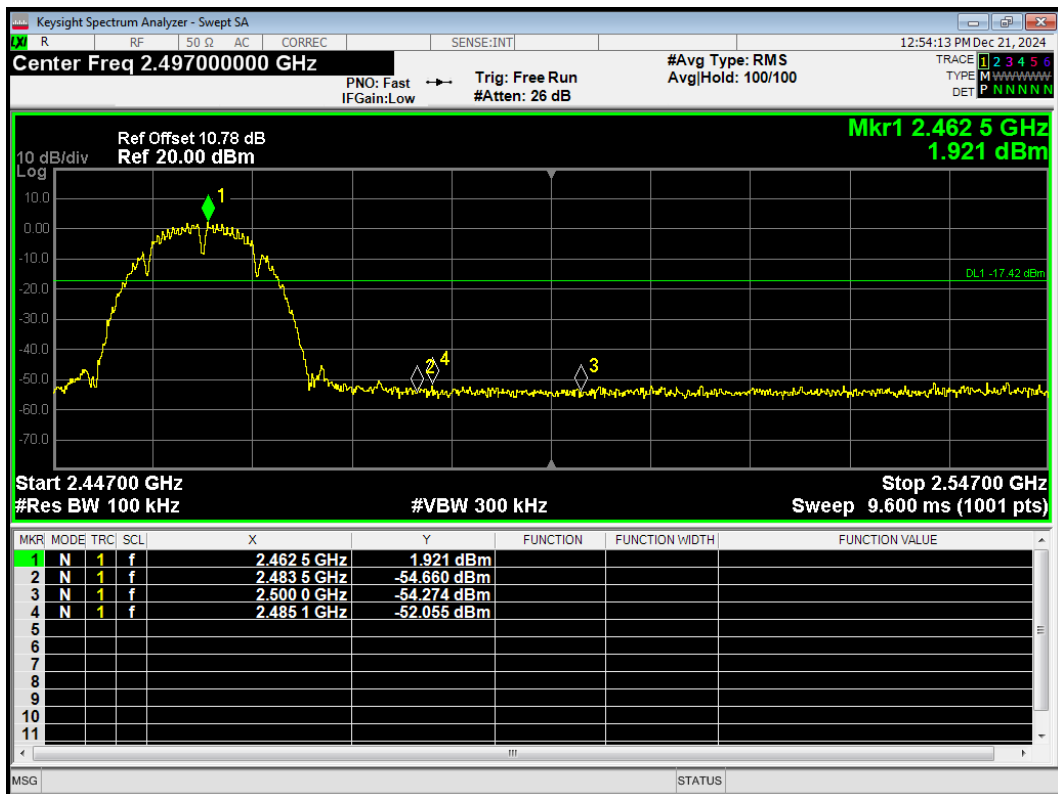
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results:

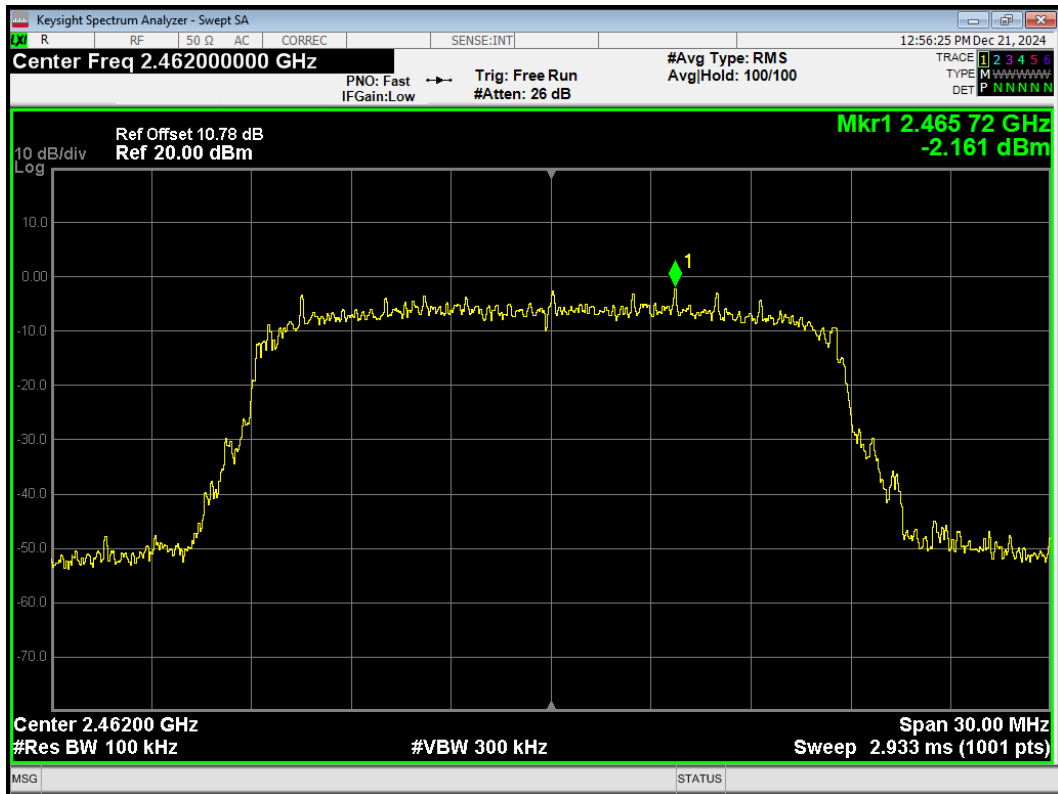
Band Edge 802.11b 2462MHz Ref



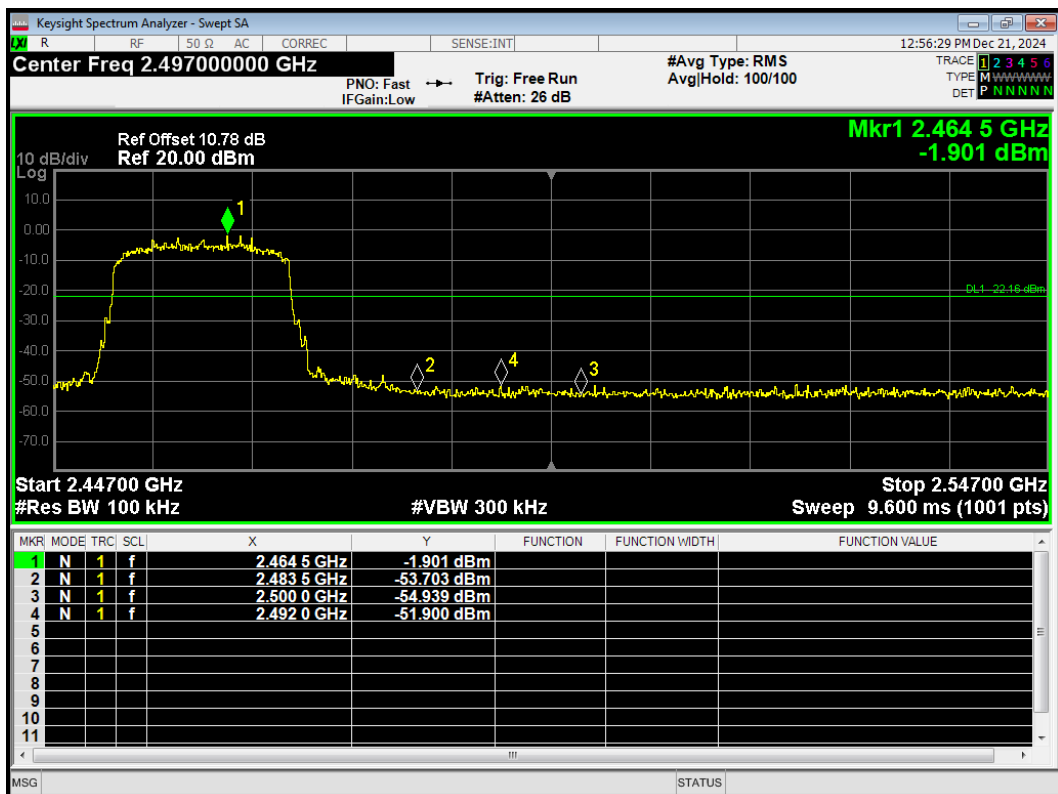
Band Edge 802.11b 2462MHz Emission



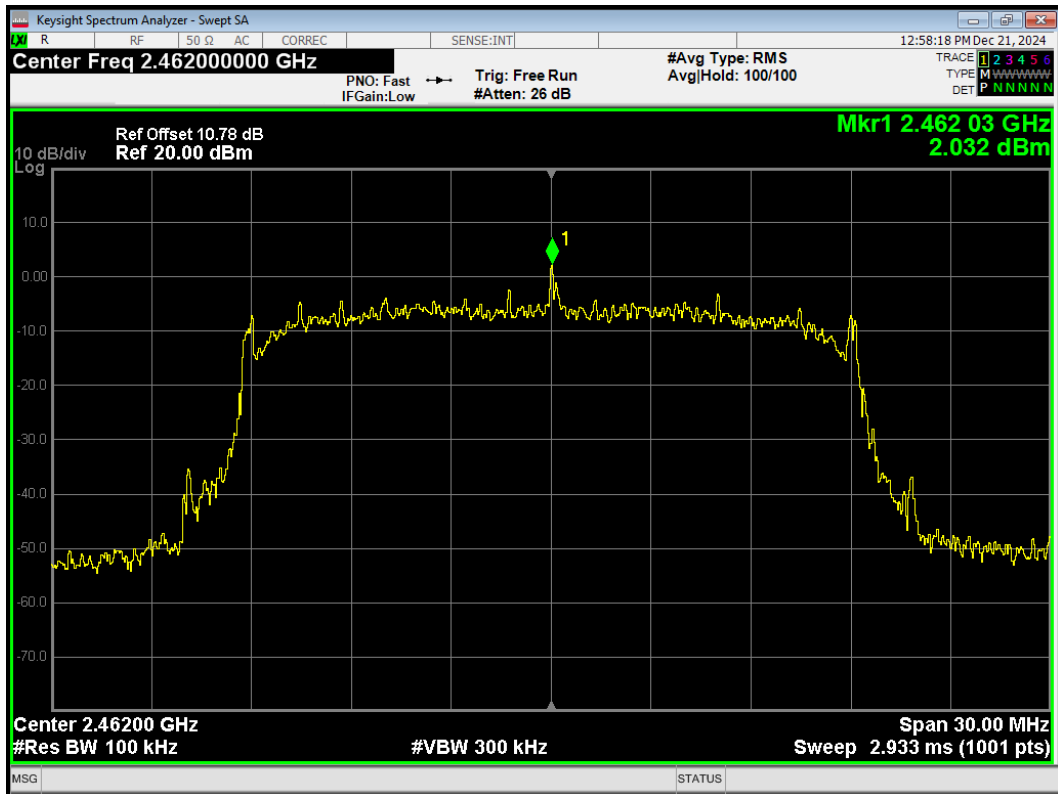
Band Edge 802.11g 2462MHz Ref



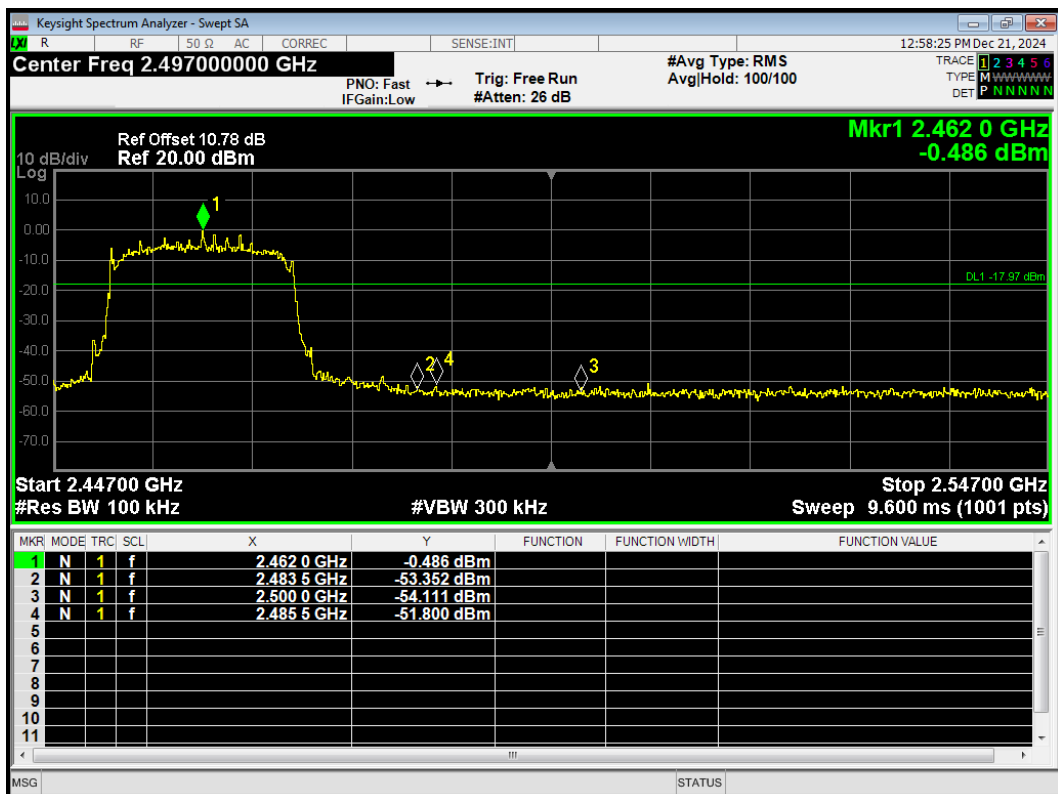
Band Edge 802.11g 2462MHz Emission



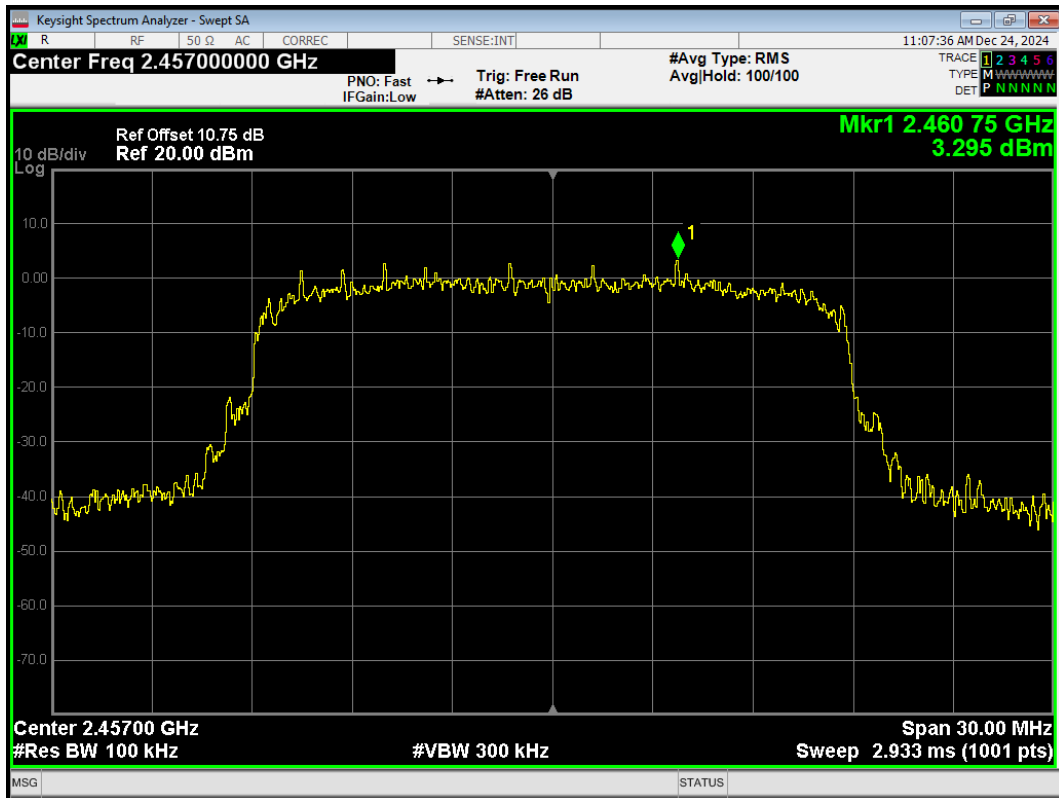
Band Edge 802.11n(HT20) 2462MHz Ref



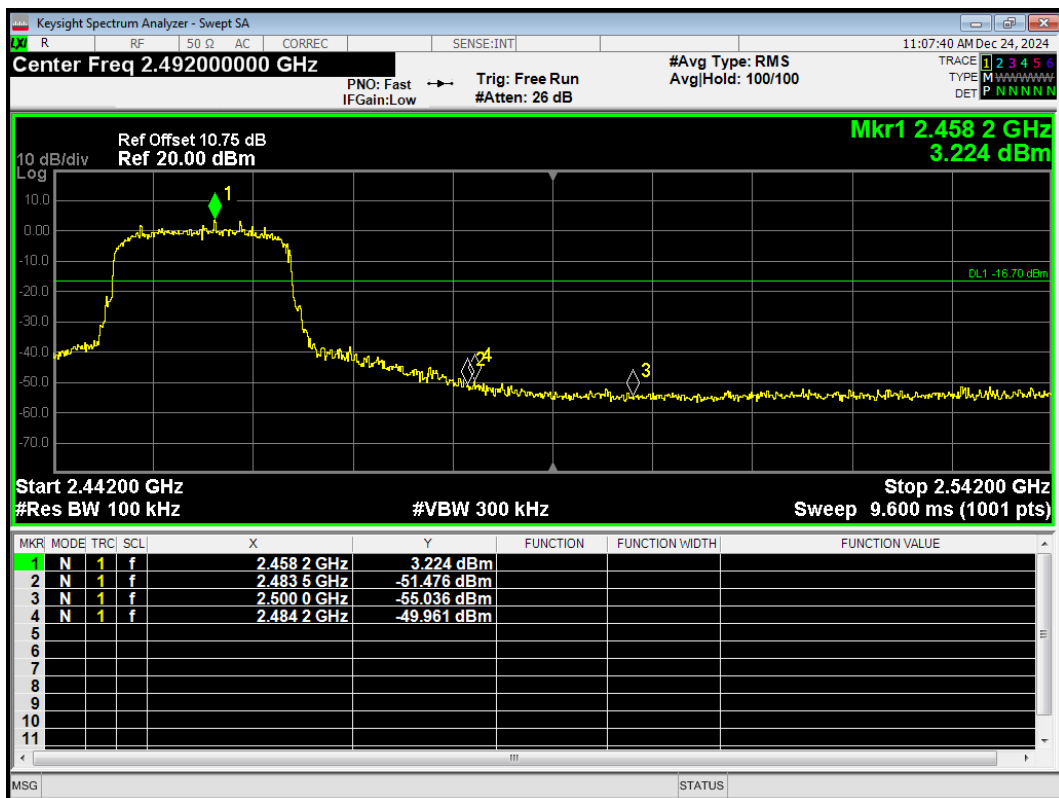
Band Edge 802.11n(HT20) 2462MHz Emission



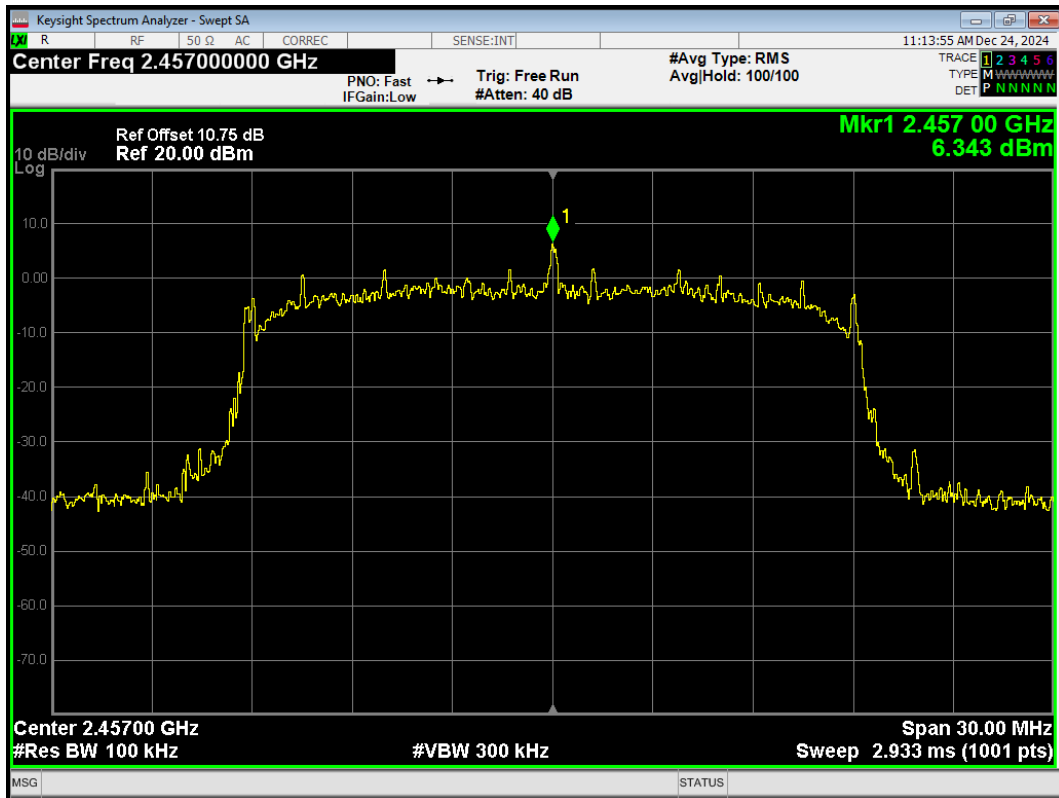
Band Edge 802.11g 2457MHz Ref



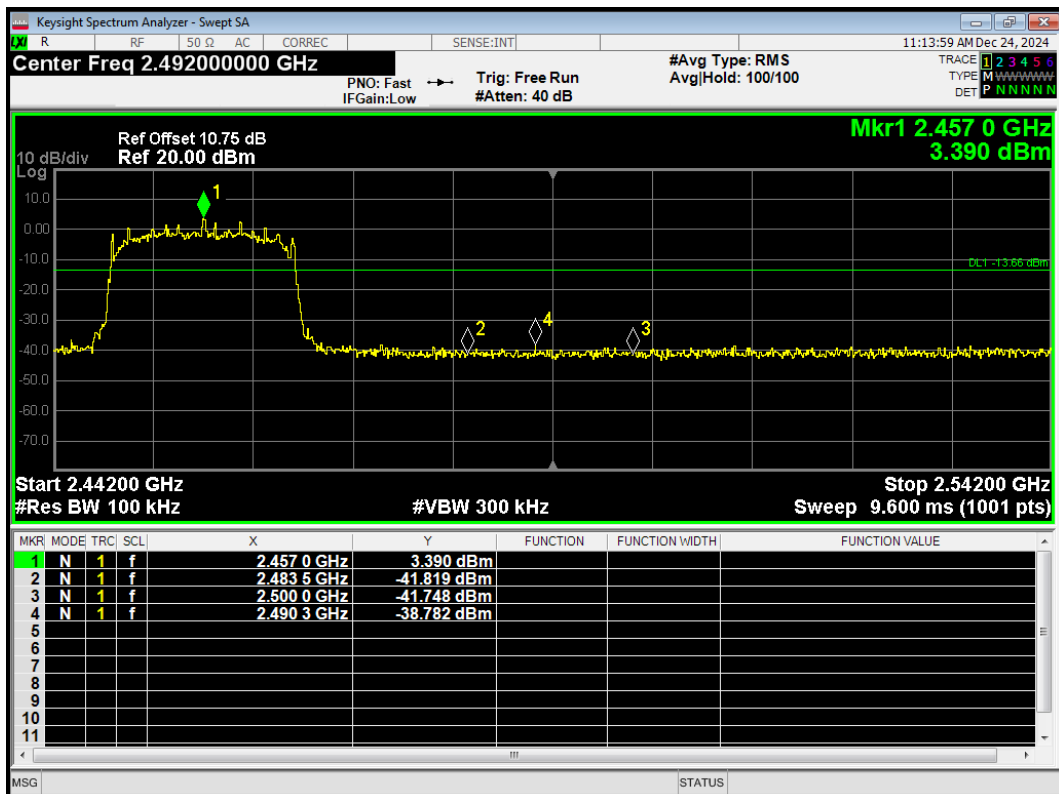
Band Edge 802.11g 2457MHz Emission



Band Edge 802.11n(HT20) 2457MHz Ref



Band Edge 802.11n(HT20) 2457MHz Emission



5.4. Power Spectral Density

Ambient Condition

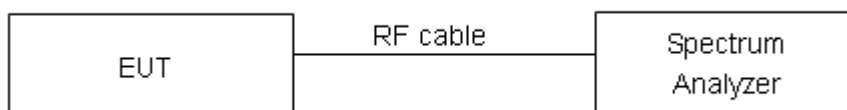
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test setup



Limits

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

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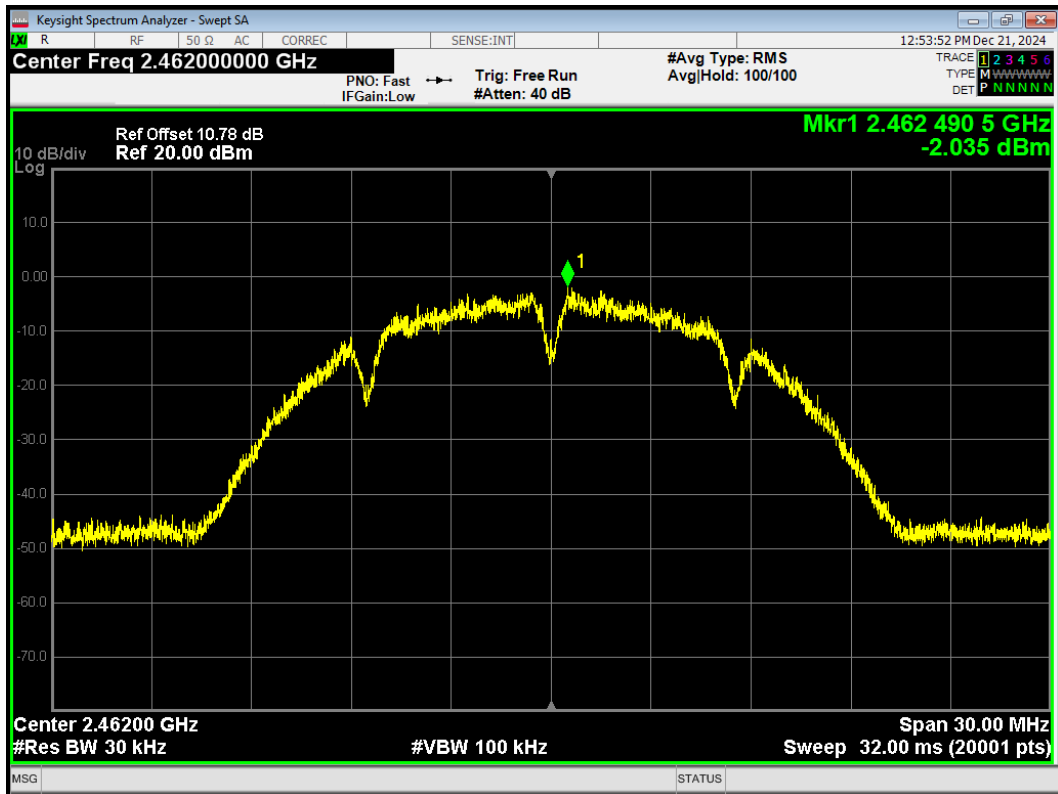
Measurement Uncertainty

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

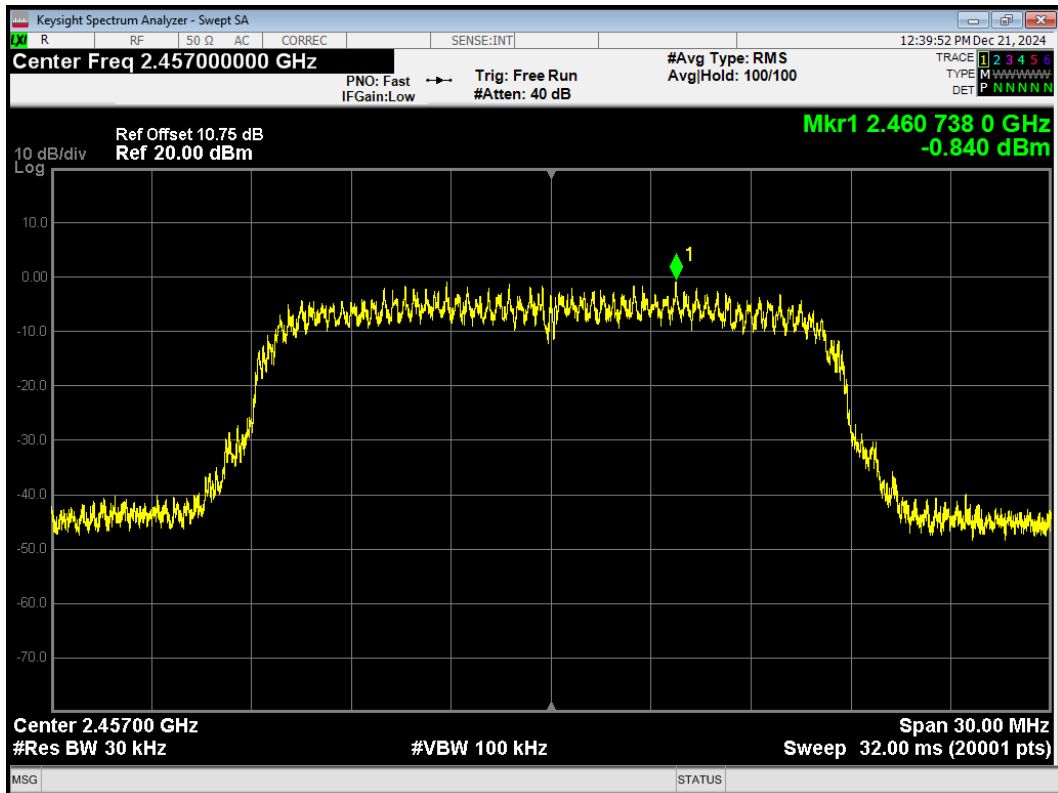
Test Results:

Test Mode	Carrier frequency (MHz) / Channel	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	2462/CH11	-2.04	-12.04	8	PASS
802.11g	2457/CH 10	-0.84	-10.84	8	PASS
	2462/CH11	-6.18	-16.18	8	PASS
802.11n HT20	2457/CH 10	-2.64	-12.64	8	PASS
	2462/CH11	-6.67	-16.67	8	PASS
Note: Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*log10(3/30)					

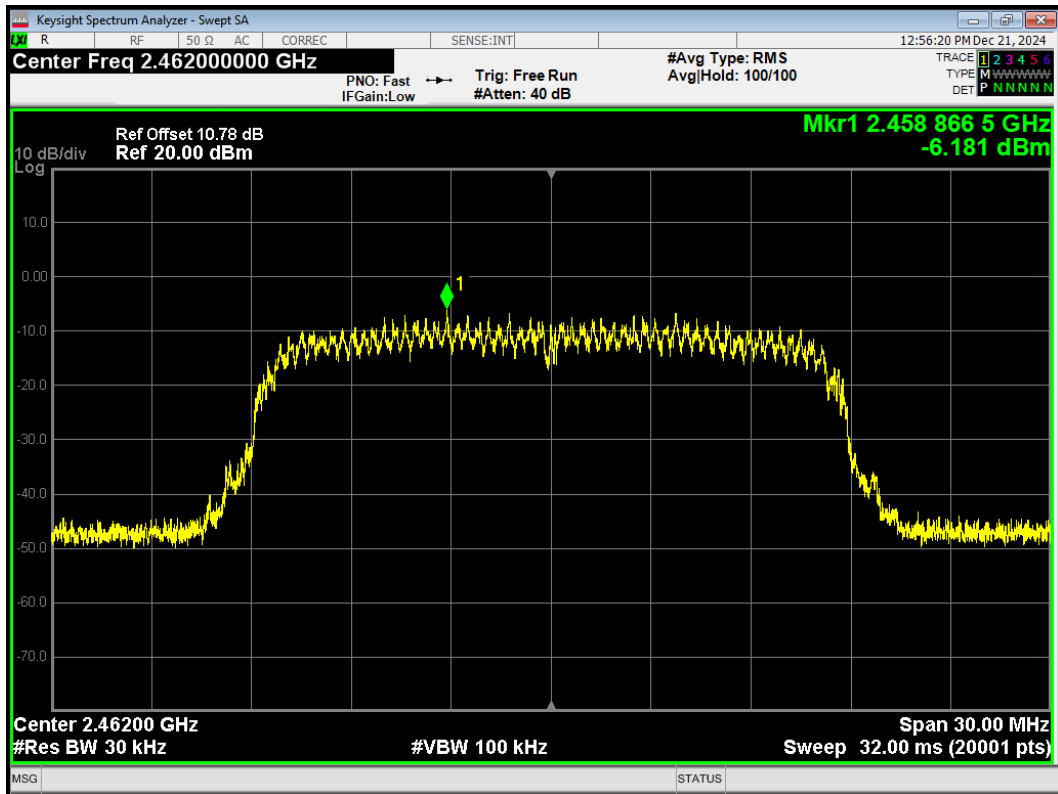
PSD 802.11b 2462MHz



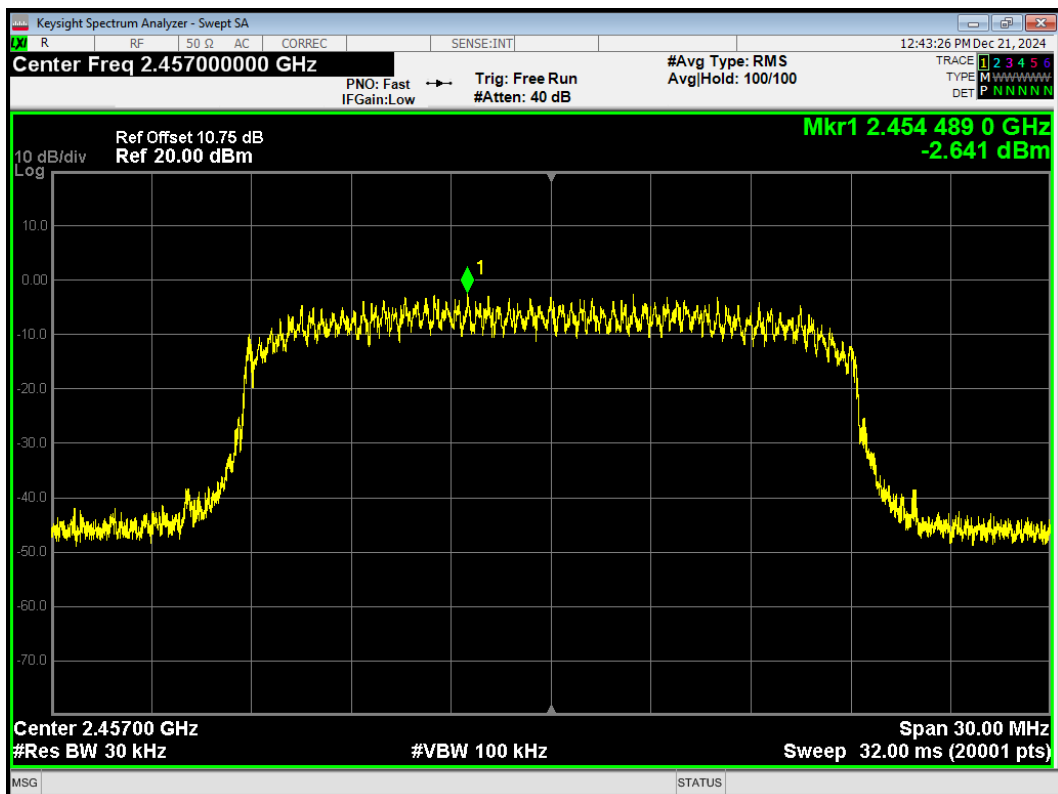
PSD 802.11g 2457MHz



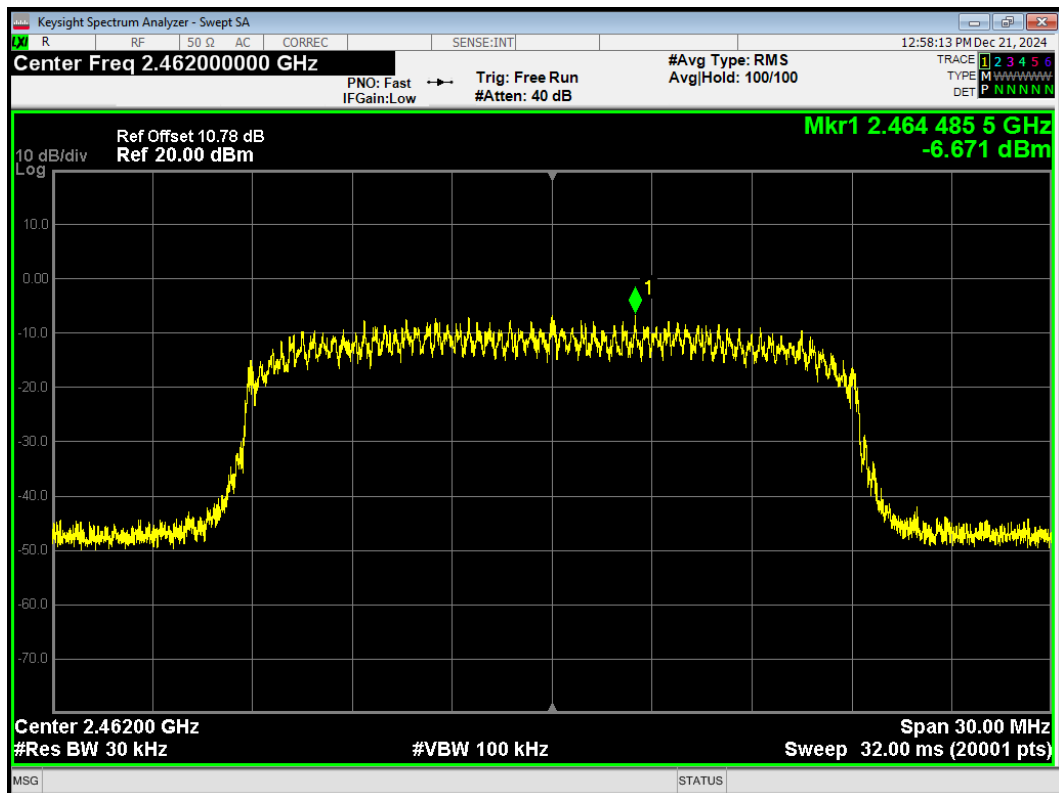
PSD 802.11g 2462MHz



PSD 802.11n(HT20) 2457MHz



PSD 802.11n(HT20) 2462MHz



5.5. Spurious RF Conducted Emissions

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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 AUTO.

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	2462	2.460	-17.54
802.11g	2457	3.660	-16.34
802.11g	2462	-1.860	-21.86
802.11n	2457	6.500	-13.5
802.11n HT20	2462	1.710	-18.29

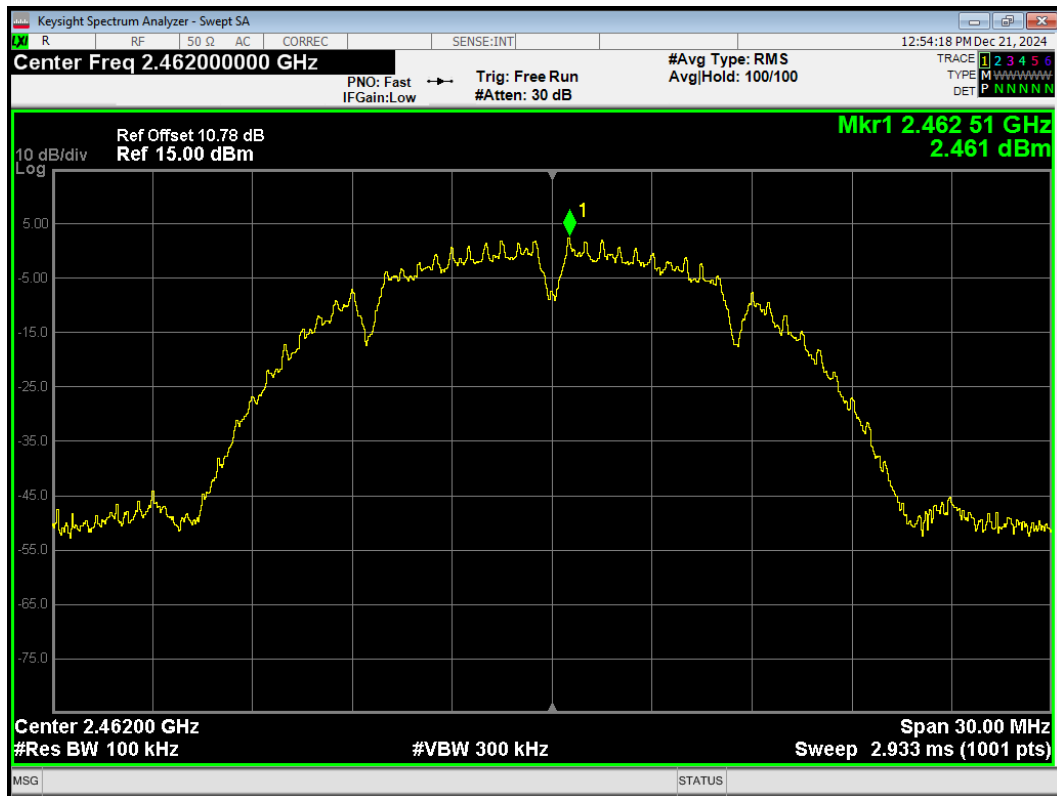
Measurement Uncertainty

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

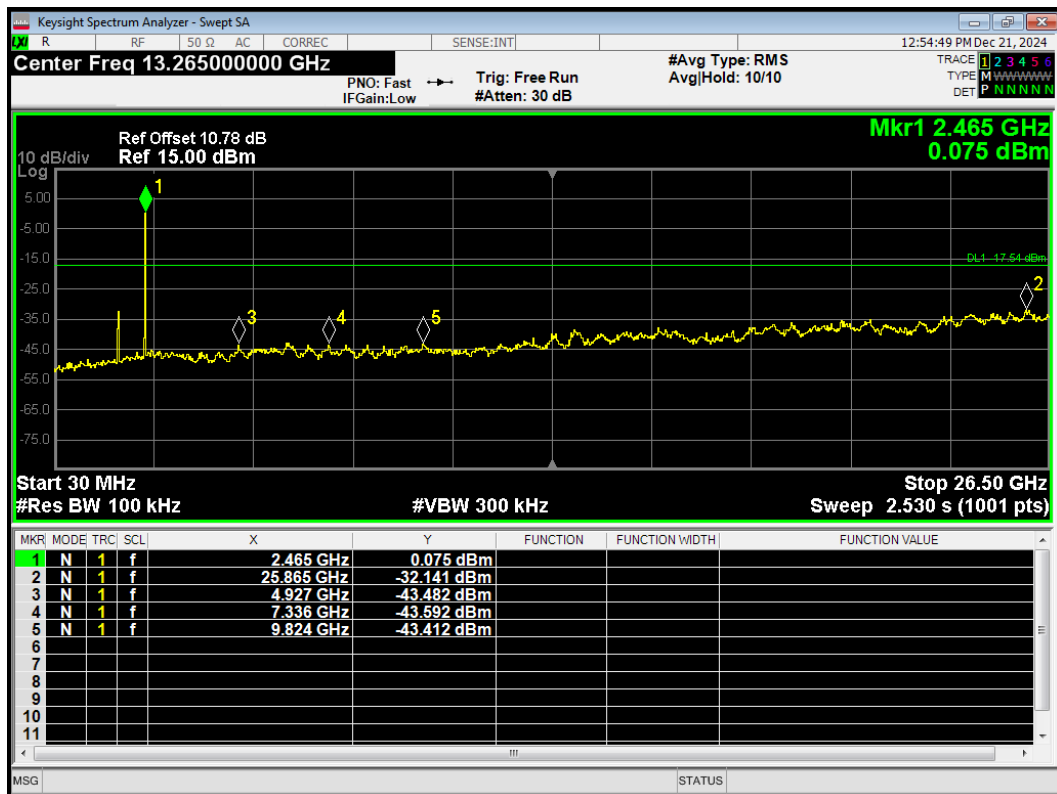
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

Test Results:

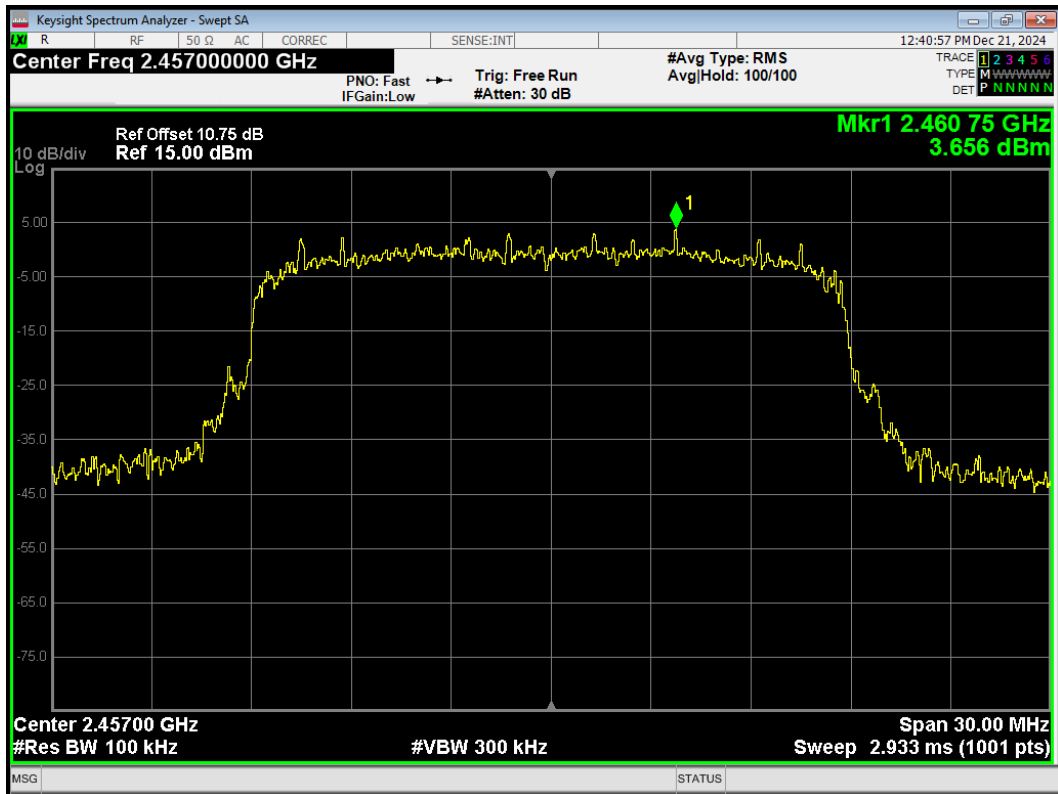
Tx. Spurious 802.11b 2462MHz Ref



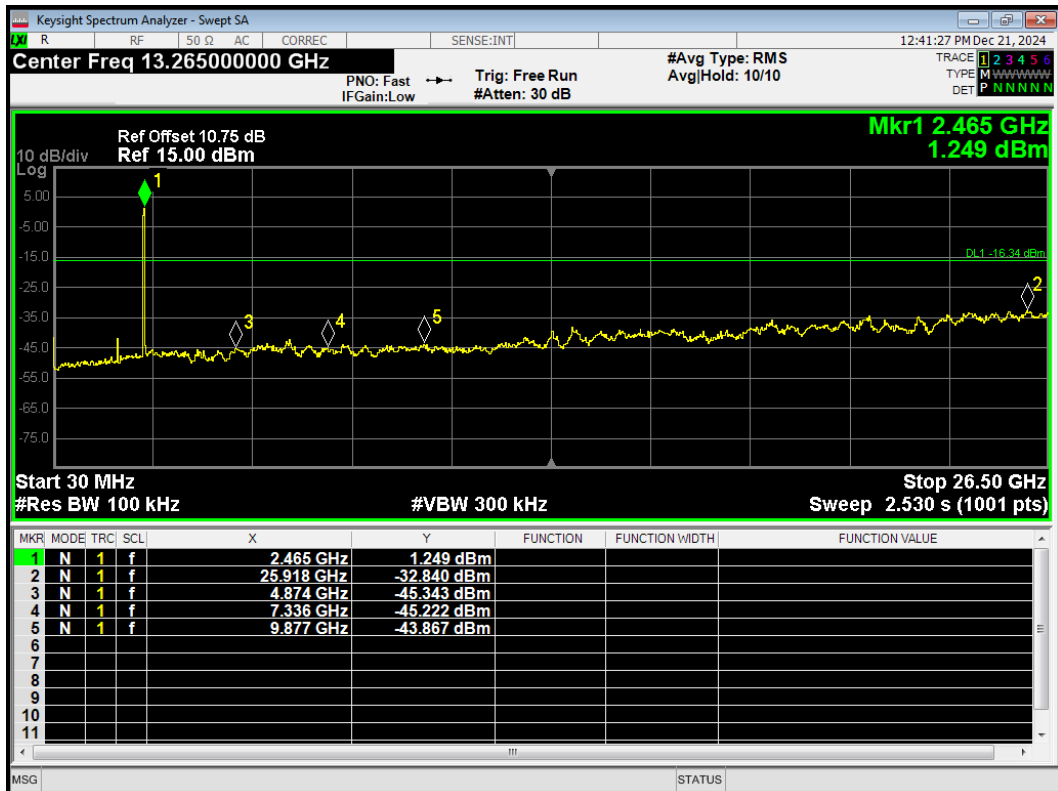
Tx. Spurious 802.11b 2462MHz Emission



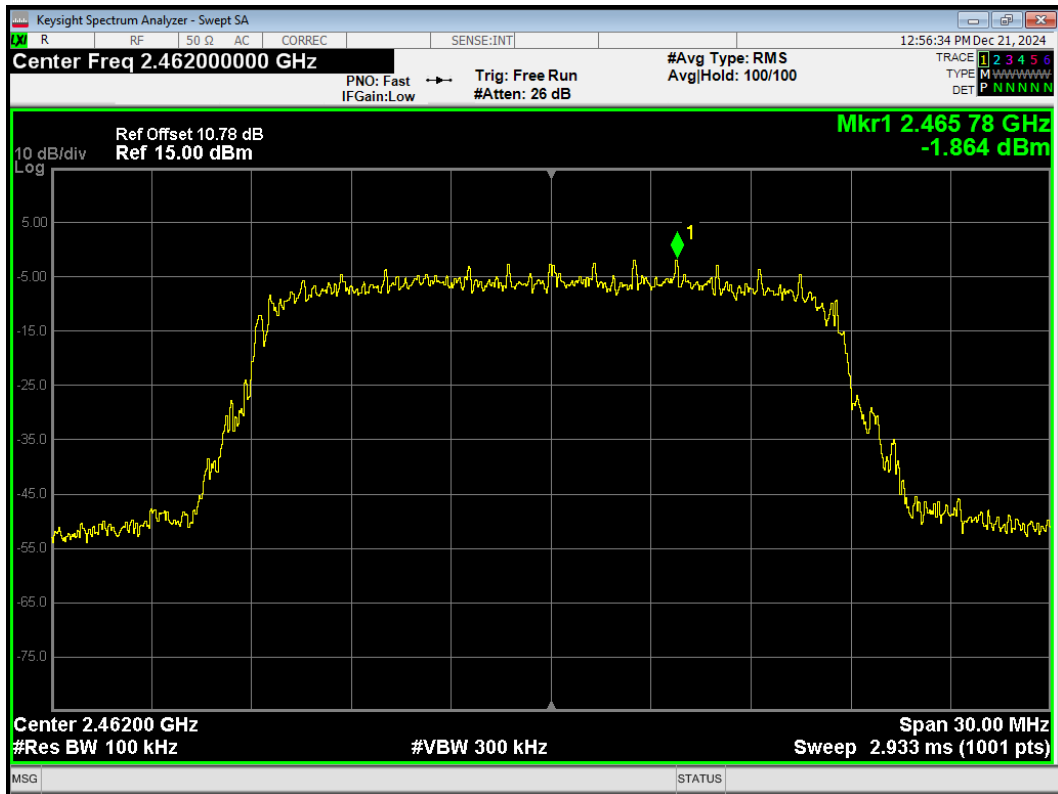
Tx. Spurious 802.11g 2457MHz Ref



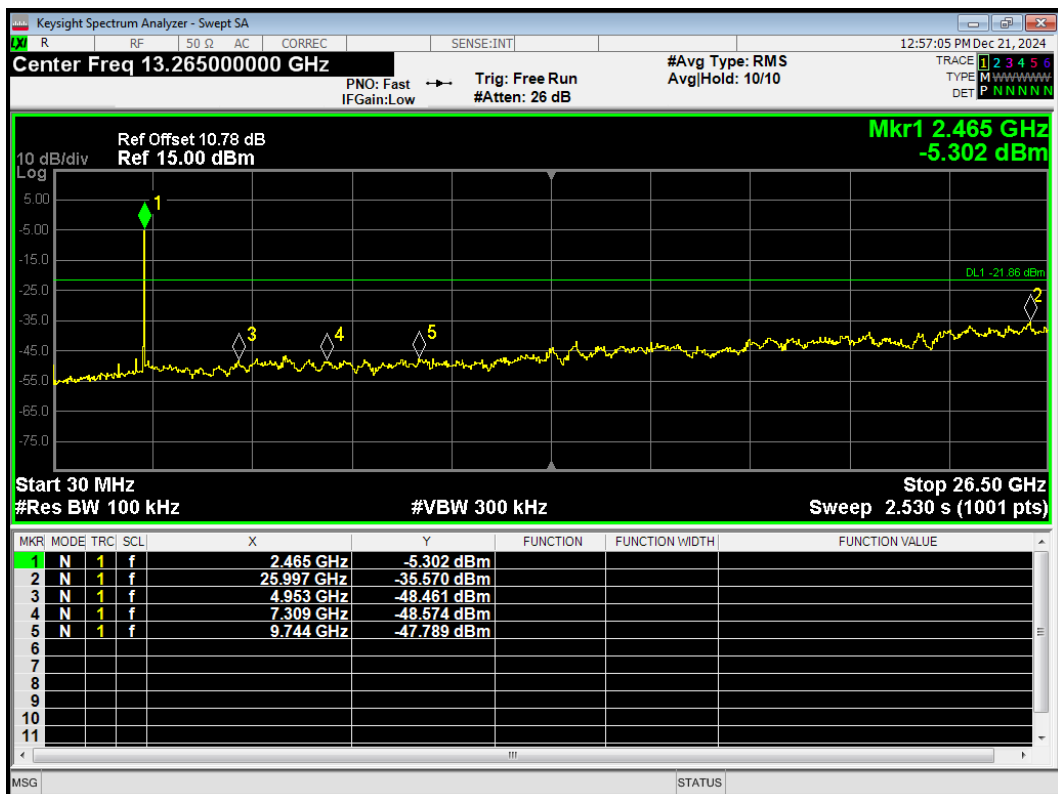
Tx. Spurious 802.11g 2457MHz Emission



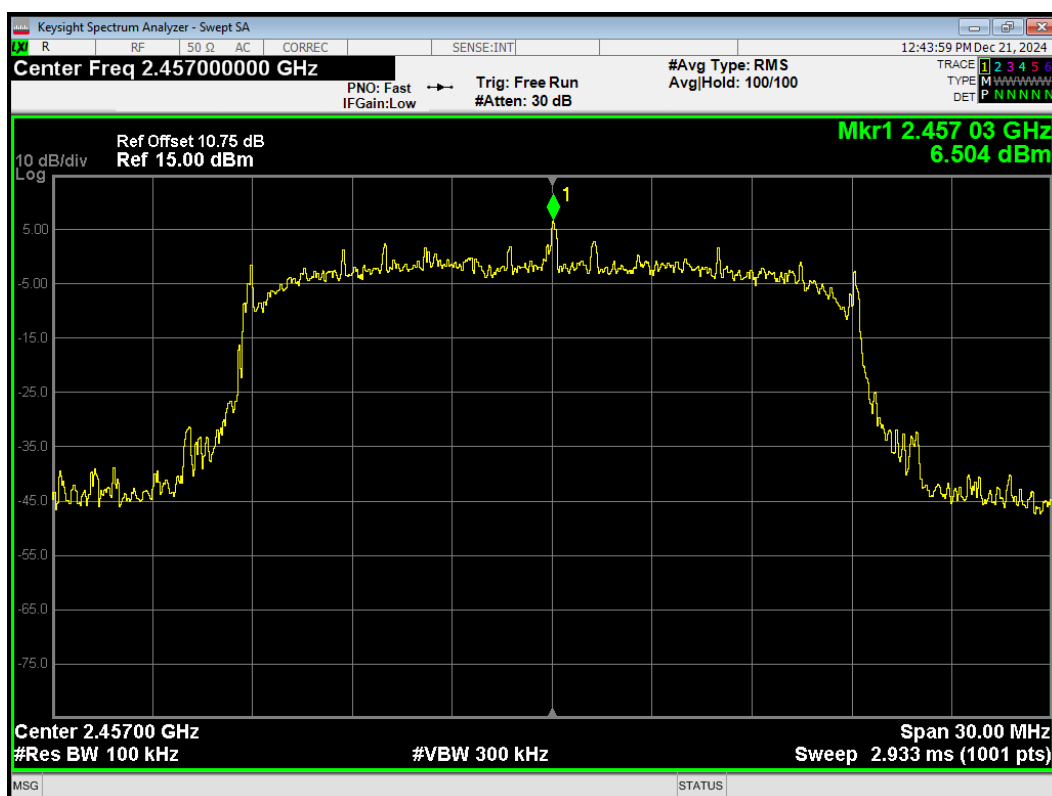
Tx. Spurious 802.11g 2462MHz Ref



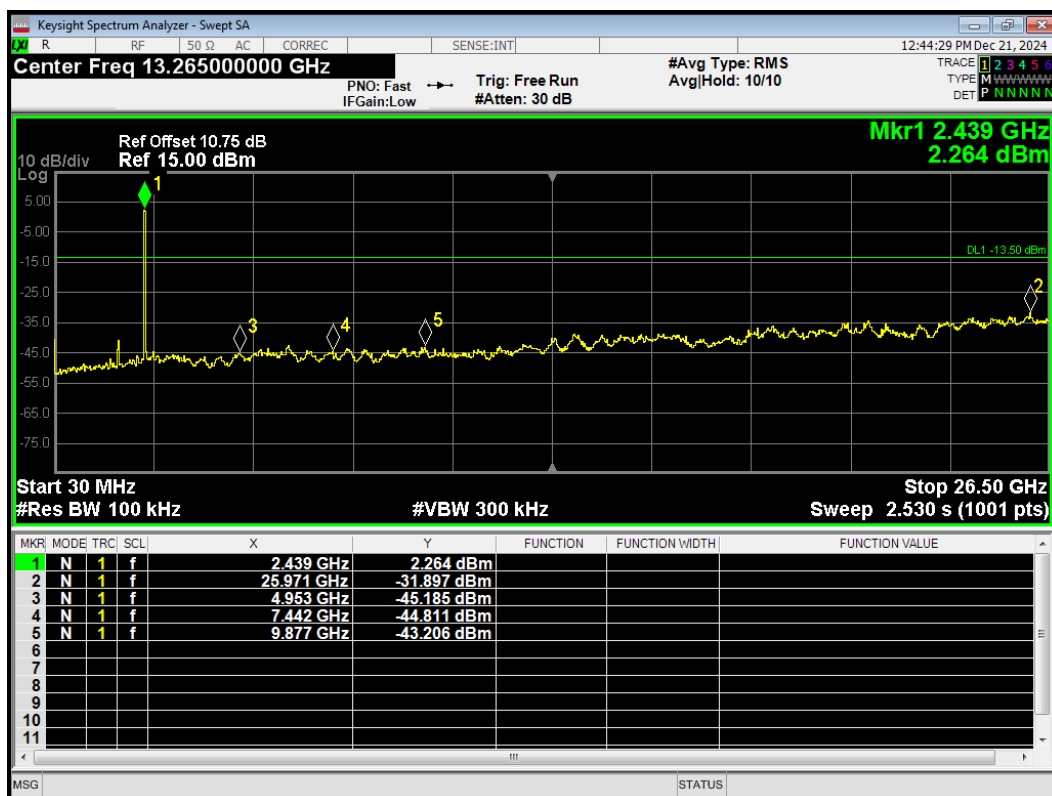
Tx. Spurious 802.11g 2462MHz Emission



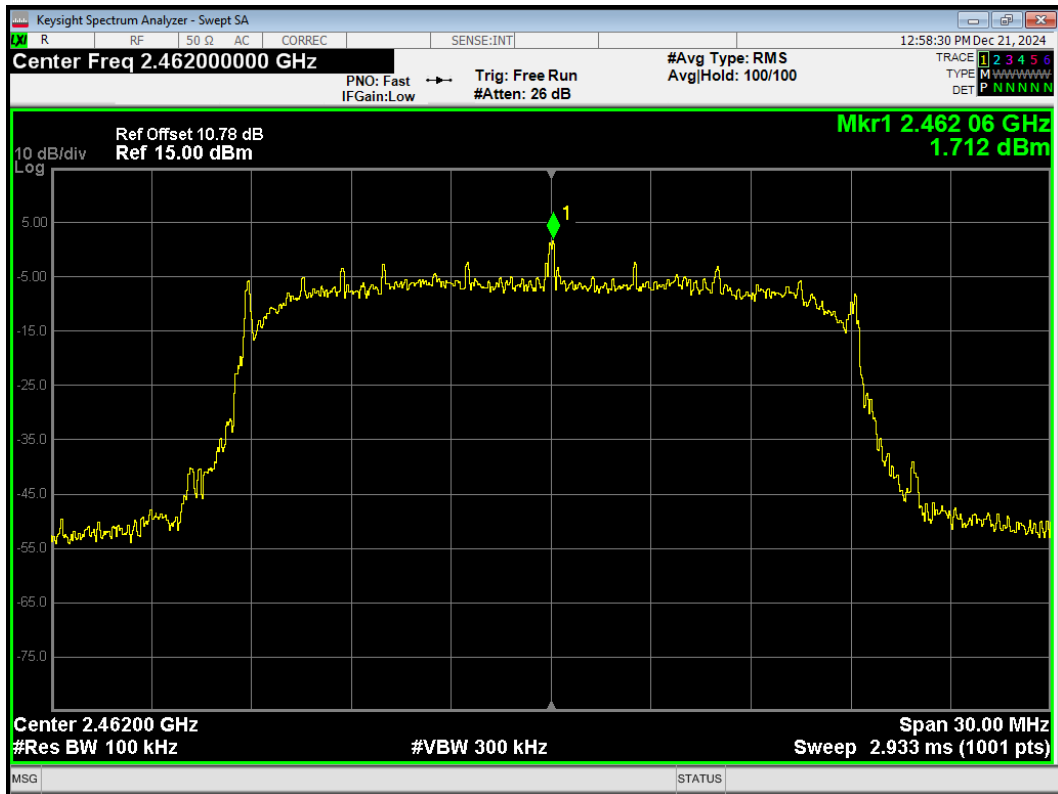
Tx. Spurious 802.11n(HT20) 2457MHz Ref



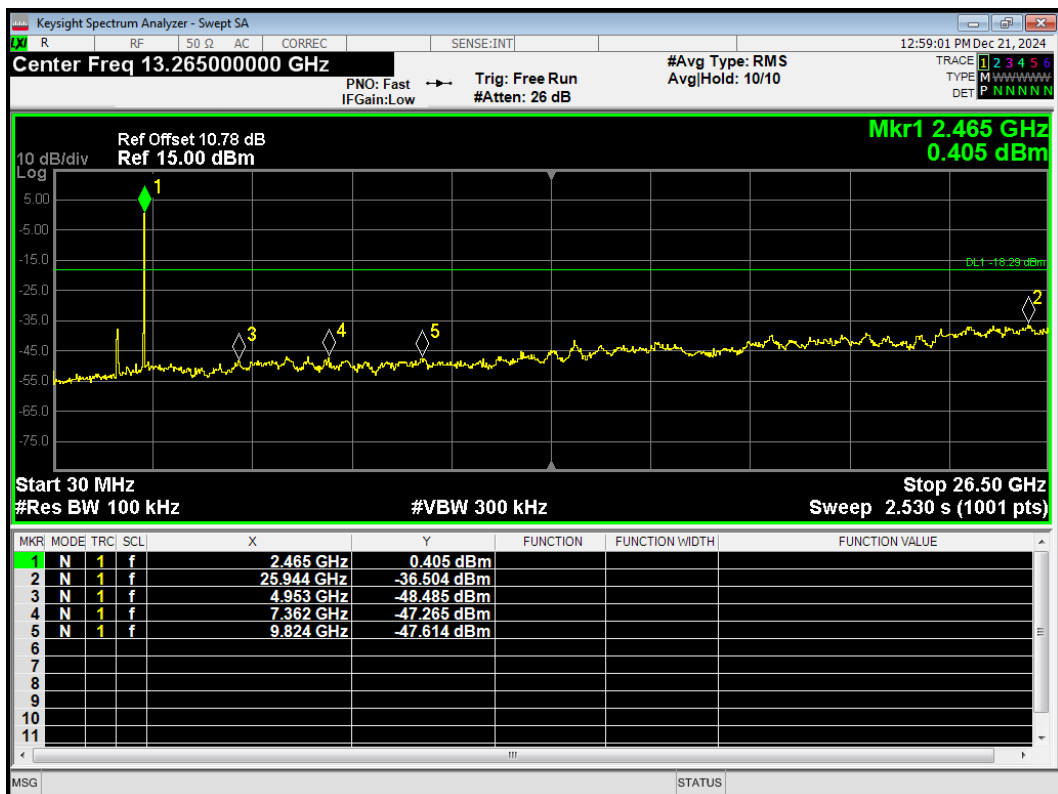
Tx. Spurious 802.11n(HT20) 2457MHz Emission



Tx. Spurious 802.11n(HT20) 2462MHz Ref



Tx. Spurious 802.11n(HT20) 2462MHz Emission



5.6. Unwanted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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.

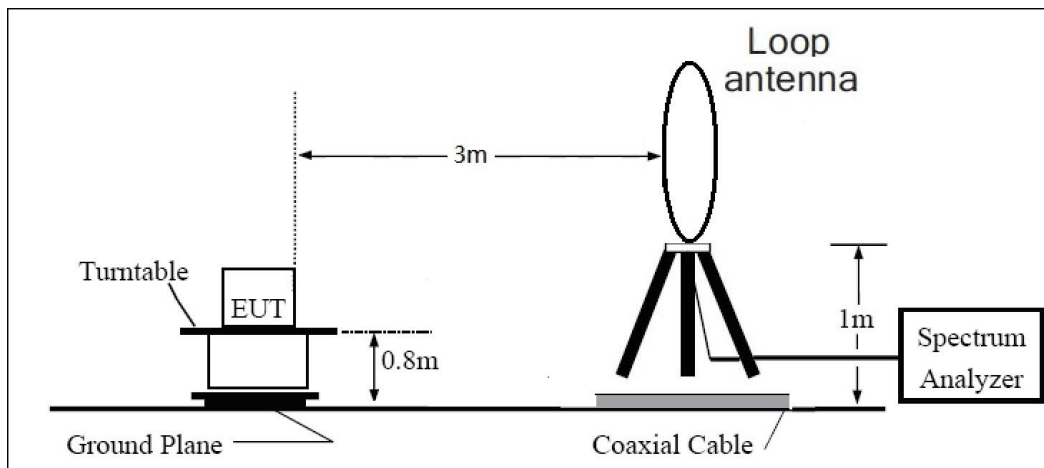
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

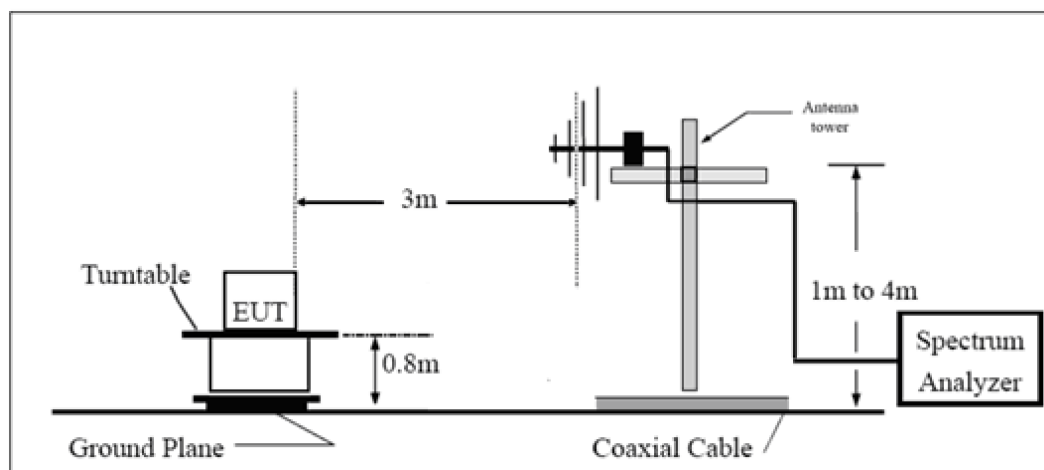
The test is in transmitting mode.

Test Setup

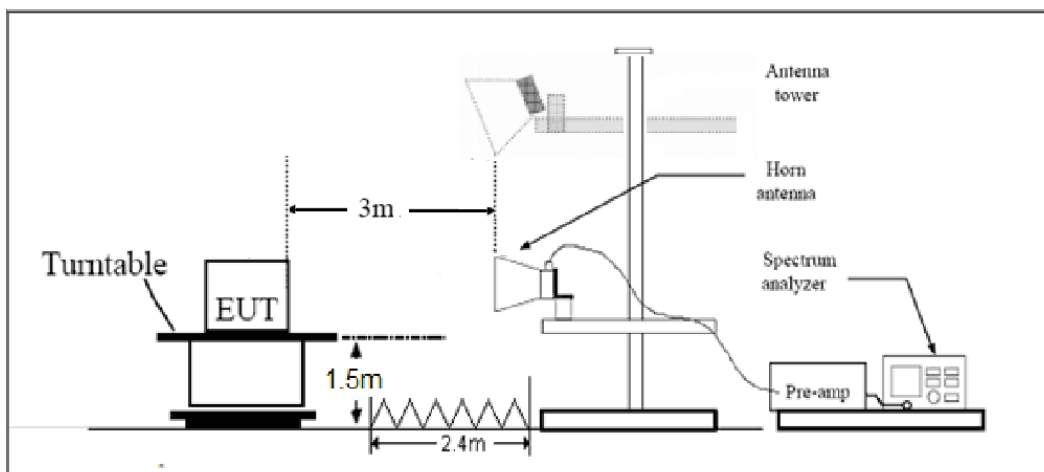
9kHz~ 30MHz



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(μ V/m)	Field strength(dB μ V/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 dB μ V/m

Average Limit=54 dB μ V/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 $k = 1.96$.

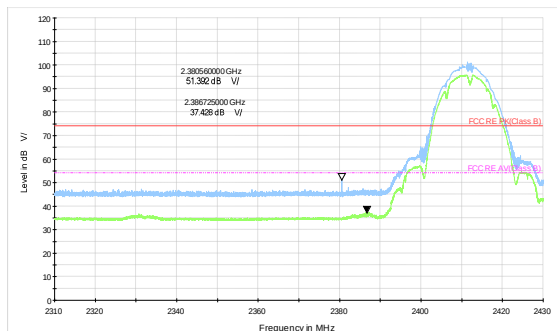
Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

Test Results:

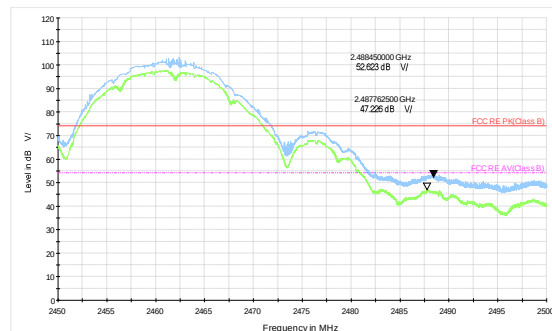
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

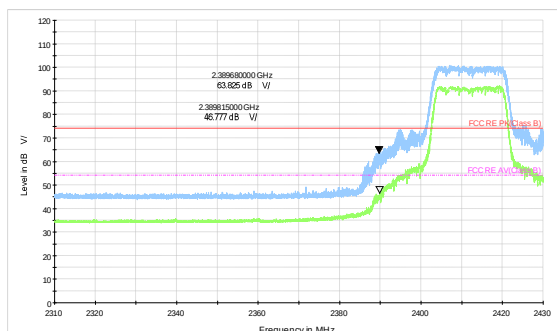
A symbol (dB V/) in the test plot below means ($\text{dB}\mu\text{V/m}$)



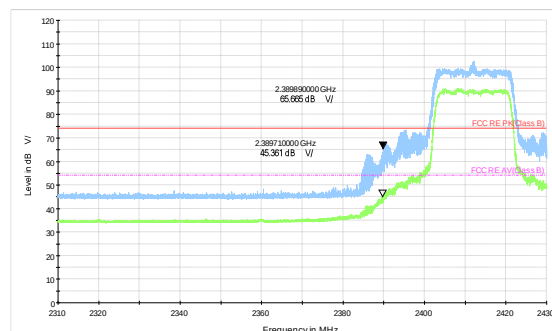
802.11b-Channel 1 Peak+ Average



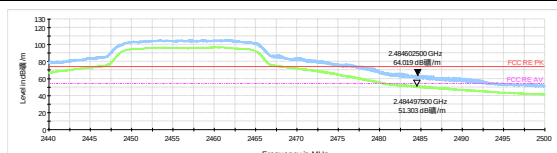
802.11b-Channel 11 Peak+ Average



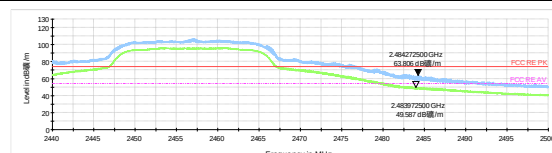
802.11g-Channel 1 Peak+ Average



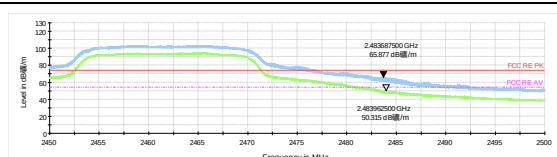
802.11n HT20-Channel 1 Peak+ Average



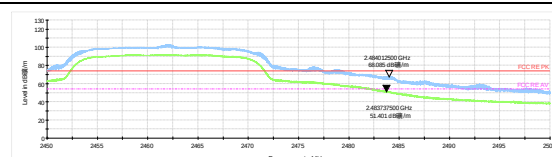
802.11g-Channel 10 Peak+ Average



802.11n HT20-Channel 10 Peak+ Average

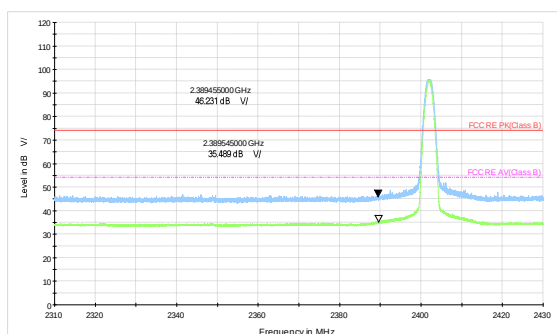


802.11g-Channel 11 Peak+ Average

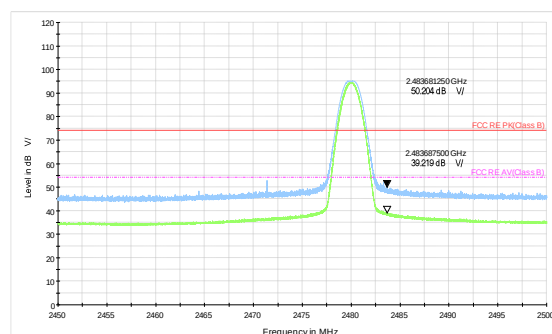


802.11n HT20-Channel 11 Peak+ Average

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.



Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+Average

Result of RE

Test result

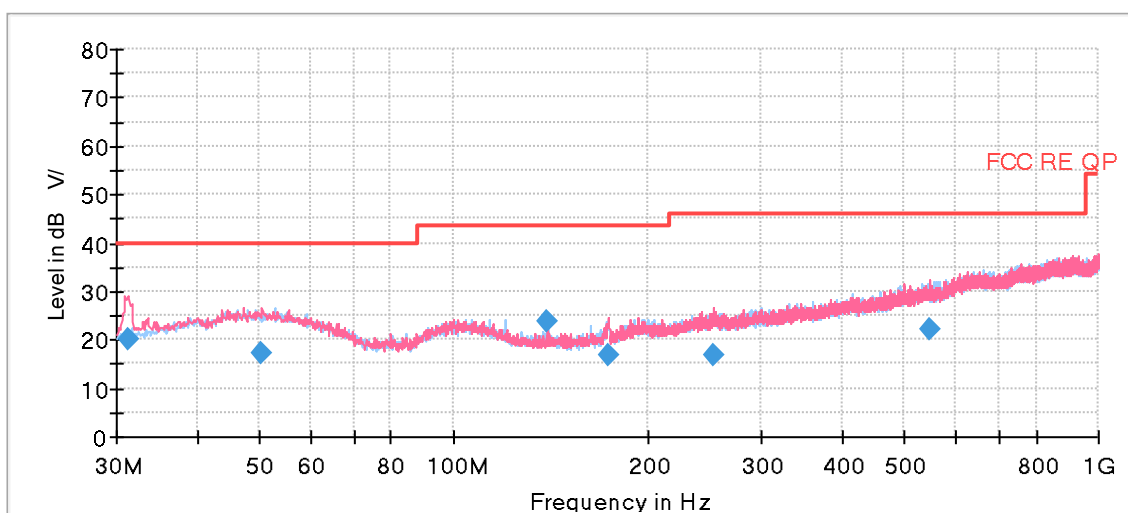
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

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.

Wi-Fi 2.4G

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 symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)



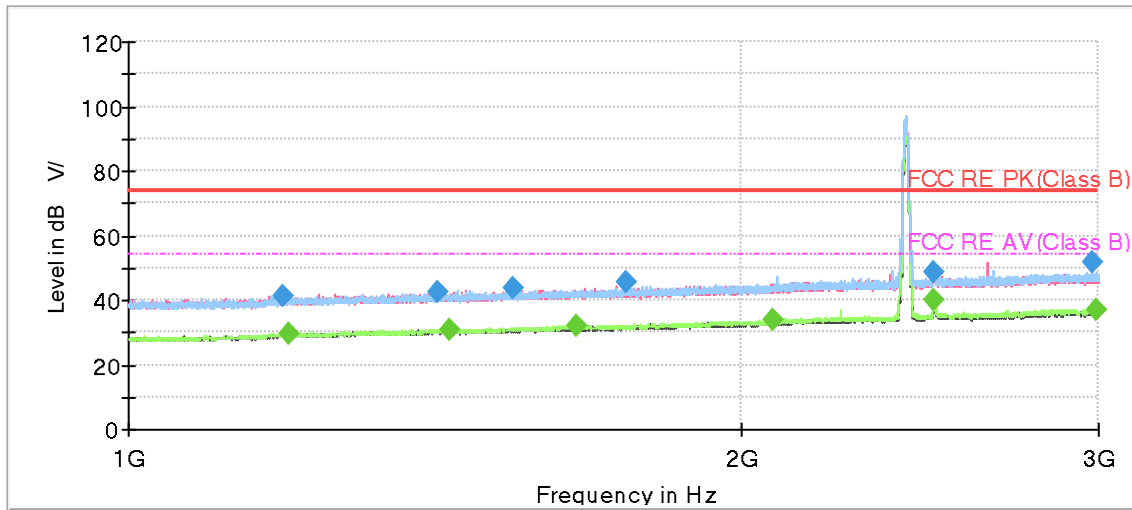
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak ($\text{dB}\mu\text{V/m}$)	Limit ($\text{dB}\mu\text{V/m}$)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
31.252500	19.99	40.00	20.01	122.0	V	342.0	17.2
50.411250	17.08	40.00	22.92	221.0	V	130.0	21.1
140.013750	23.70	43.50	19.80	221.0	H	287.0	15.5
174.002500	16.83	43.50	26.67	196.0	V	331.0	20.1
252.651250	16.64	46.00	29.36	220.0	V	0.0	20.5
548.418750	22.14	46.00	23.86	100.0	V	0.0	26.1

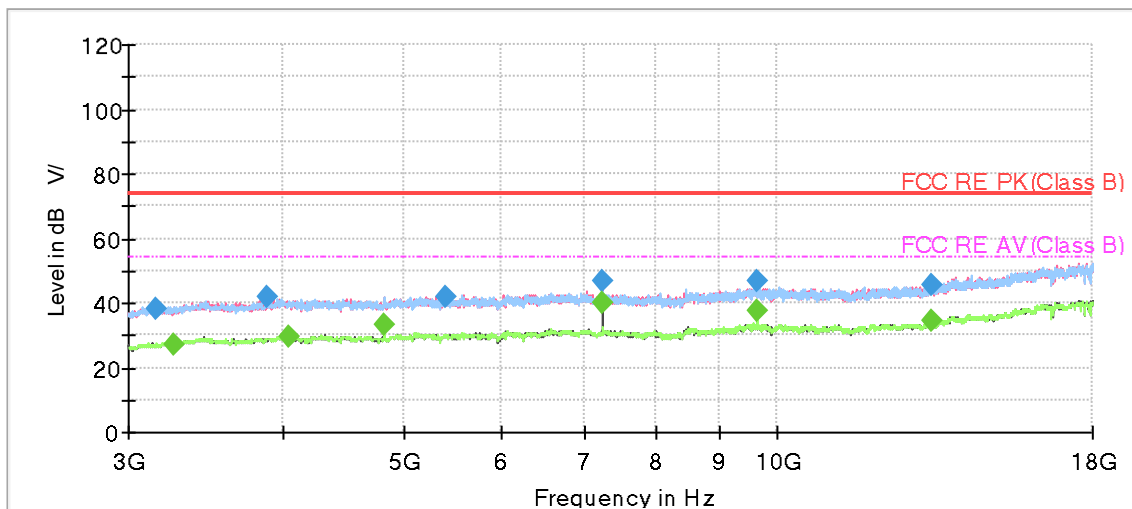
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak

802.11b CH1



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



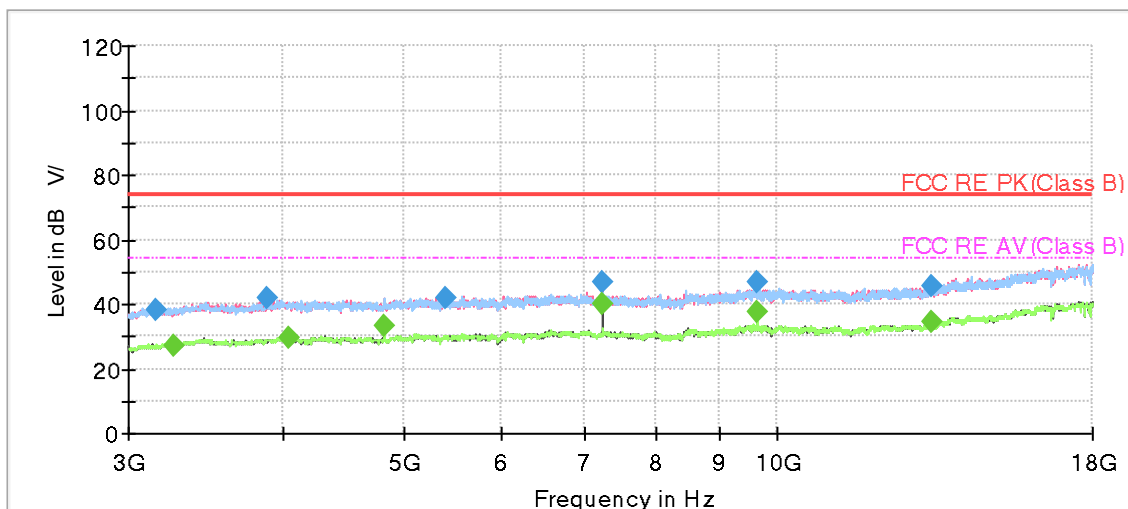
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1190.500000	41.39	---	74.00	32.61	500.0	200.0	V	0.0	-9.0
1200.250000	---	29.73	54.00	24.27	500.0	100.0	V	116.0	-8.8
1419.500000	42.19	---	74.00	31.81	500.0	200.0	V	109.0	-7.4
1440.000000	---	31.01	54.00	22.99	500.0	100.0	H	134.0	-7.3
1546.000000	43.60	---	74.00	30.40	500.0	200.0	H	343.0	-6.7
1662.000000	---	32.09	54.00	21.91	500.0	200.0	H	311.0	-6.1
1759.500000	45.46	---	74.00	28.54	500.0	200.0	V	144.0	-5.7
2077.000000	---	33.72	54.00	20.28	500.0	100.0	H	3.0	-3.9
2490.000000	---	40.20	54.00	13.80	500.0	100.0	H	328.0	-2.1
2492.250000	48.54	---	74.00	25.46	500.0	200.0	H	192.0	-2.1
2980.000000	51.63	---	74.00	22.37	500.0	100.0	V	140.0	-0.7
2992.250000	---	37.20	54.00	16.80	500.0	200.0	H	264.0	-0.6

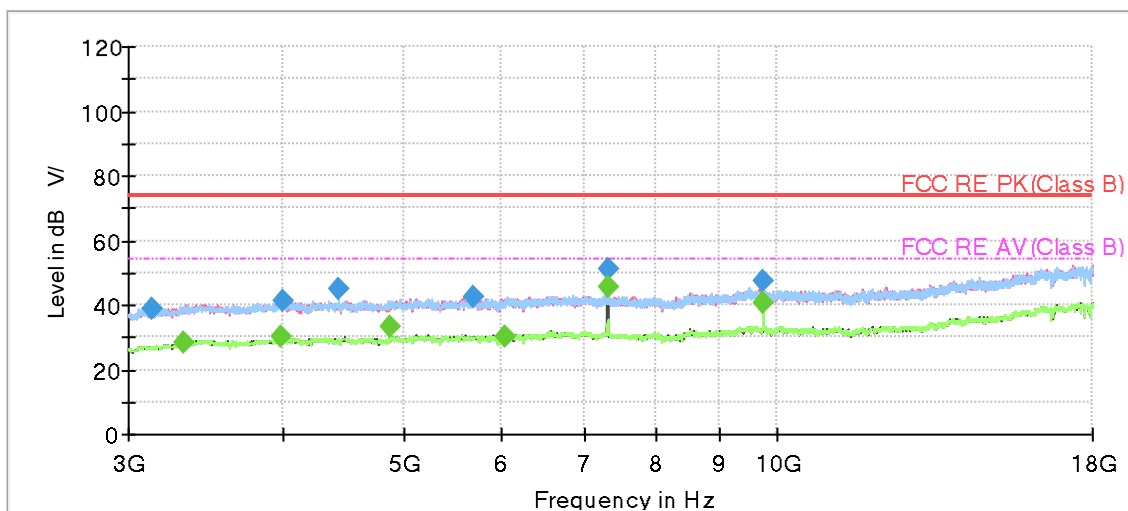
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11b CH6



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



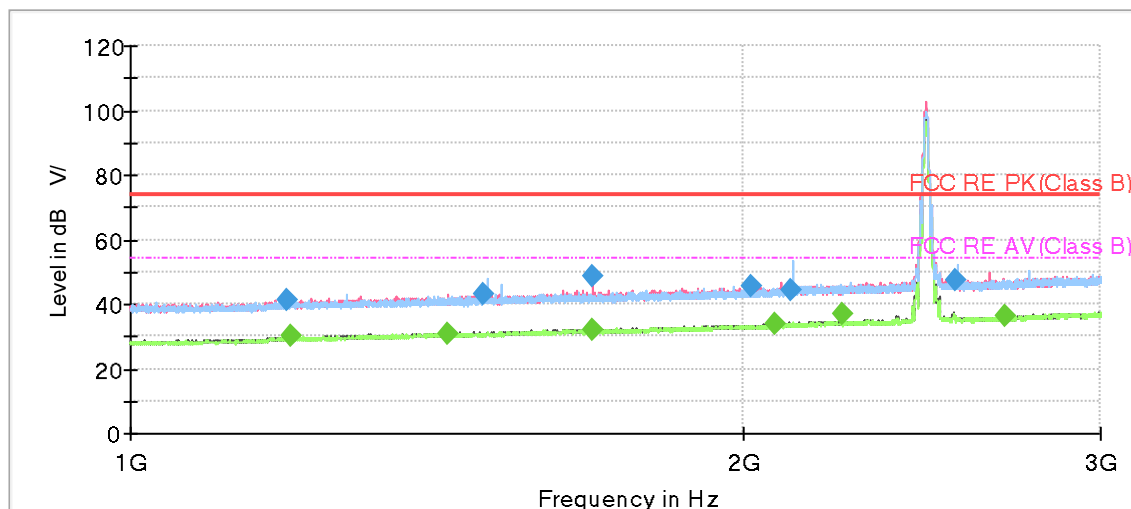
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1045.000000	39.41	---	74.00	34.59	500.0	200.0	H	320.0	-10.5
1141.250000	---	28.60	54.00	25.40	500.0	200.0	V	33.0	-9.8
1250.000000	40.75	---	74.00	33.25	500.0	200.0	V	25.0	-8.6
1334.000000	---	30.29	54.00	23.71	500.0	200.0	V	10.0	-8.0
1430.250000	40.89	---	74.00	33.11	500.0	200.0	V	219.0	-7.4
1478.250000	---	30.89	54.00	23.11	500.0	100.0	H	130.0	-7.1
1646.250000	41.61	---	74.00	32.39	500.0	200.0	V	64.0	-6.2
1772.250000	---	31.76	54.00	22.24	500.0	200.0	V	176.0	-5.6
2008.500000	44.45	---	74.00	29.55	500.0	100.0	H	1.0	-4.5
2240.000000	---	36.31	54.00	17.69	500.0	100.0	H	91.0	-3.2
2517.750000	---	38.18	54.00	15.82	500.0	200.0	H	198.0	-2.1
2521.000000	46.92	---	74.00	27.08	500.0	100.0	H	12.0	-2.2
7308.750000	---	45.25	54.00	8.75	500.0	200.0	V	1.0	-3.0

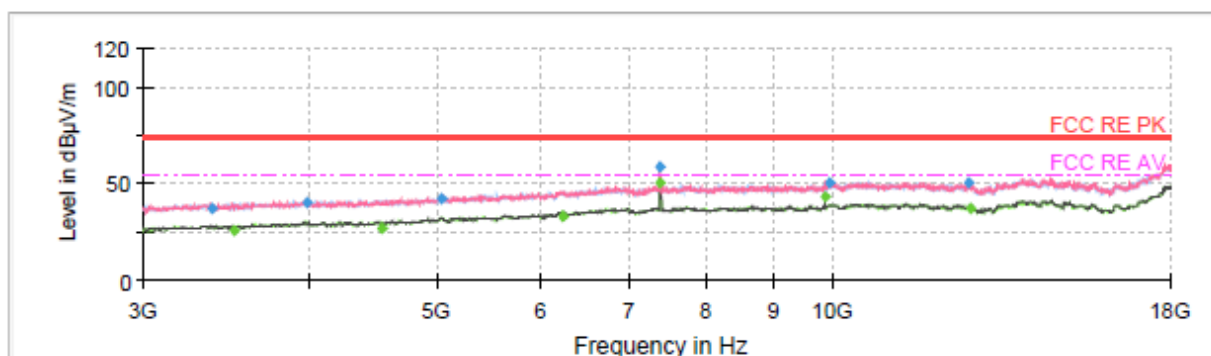
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11b CH11



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



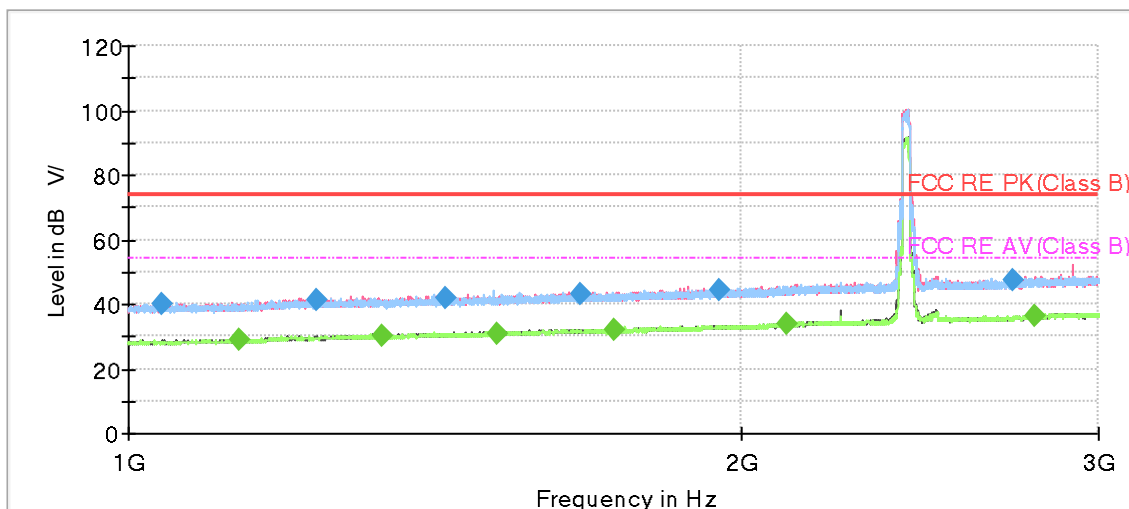
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1195.500000	41.32	---	74.00	32.68	500.0	100.0	H	41.0	-8.9
1199.750000	---	30.00	54.00	24.00	500.0	200.0	V	21.0	-8.8
1434.000000	---	30.95	54.00	23.05	500.0	100.0	H	49.0	-7.4
1493.250000	43.30	---	74.00	30.70	500.0	100.0	V	342.0	-7.0
1686.750000	48.72	---	74.00	25.28	500.0	100.0	V	220.0	-6.0
1689.500000	---	32.16	54.00	21.84	500.0	100.0	V	250.0	-6.0
2020.000000	45.72	---	74.00	28.28	500.0	100.0	V	342.0	-4.4
2074.750000	---	33.81	54.00	20.19	500.0	100.0	V	330.0	-4.0
2115.250000	44.28	---	74.00	29.72	500.0	100.0	V	334.0	-3.7
2240.250000	---	37.11	54.00	16.89	500.0	100.0	V	282.0	-3.2
2544.500000	47.27	---	74.00	26.73	500.0	100.0	V	262.0	-2.1
2691.000000	---	36.04	54.00	17.96	500.0	200.0	V	104.0	-1.7
7385.63	---	50.30	54.00	3.70	1000.00	200.0	V	0.00	6

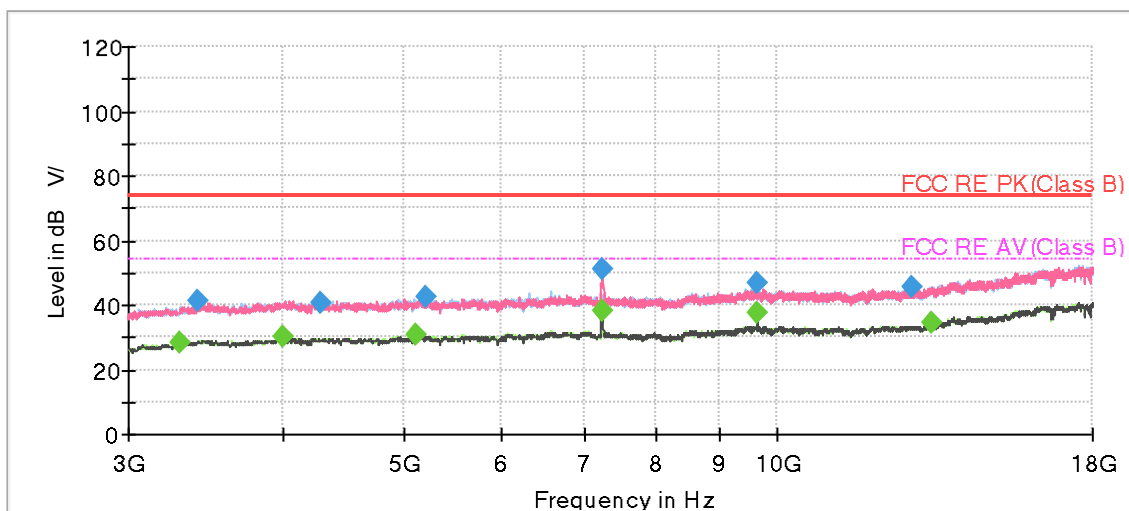
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11g CH1



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



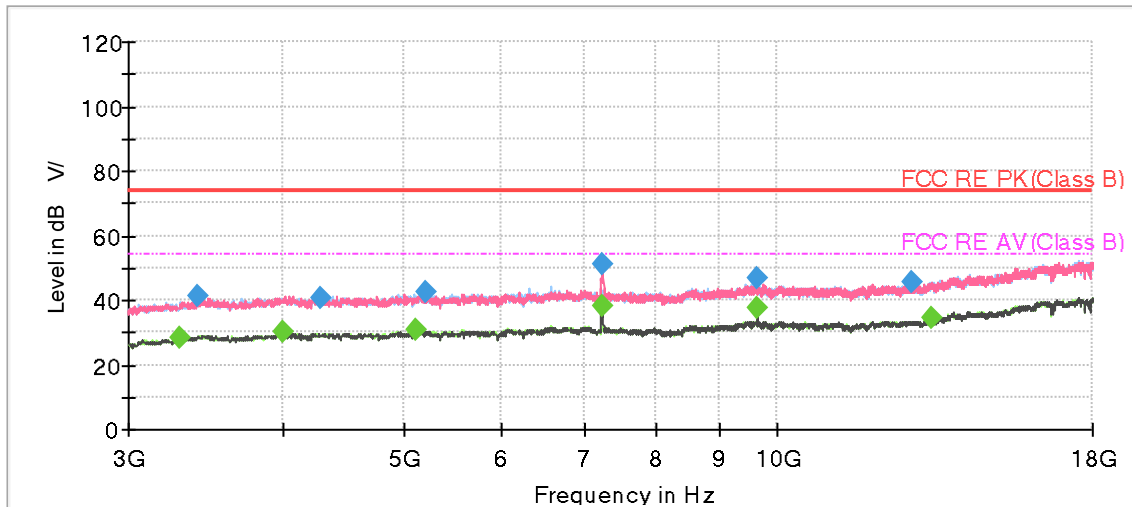
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1039.500000	39.75	---	74.00	34.25	500.0	100.0	V	74.0	-10.5
1134.500000	---	29.03	54.00	24.97	500.0	100.0	V	250.0	-9.8
1238.500000	41.53	---	74.00	32.47	500.0	100.0	V	304.0	-8.6
1334.000000	---	30.34	54.00	23.66	500.0	100.0	V	351.0	-8.0
1432.250000	41.99	---	74.00	32.01	500.0	100.0	H	8.0	-7.4
1519.000000	---	30.88	54.00	23.12	500.0	200.0	V	231.0	-6.9
1670.500000	43.22	---	74.00	30.78	500.0	100.0	H	114.0	-6.1
1733.750000	---	31.89	54.00	22.11	500.0	200.0	V	21.0	-5.8
1951.500000	44.31	---	74.00	29.69	500.0	100.0	V	351.0	-4.7
2109.250000	---	33.54	54.00	20.46	500.0	200.0	V	43.0	-3.7
2722.000000	47.10	---	74.00	26.90	500.0	200.0	V	310.0	-1.5
2789.250000	---	36.39	54.00	17.61	500.0	200.0	V	215.0	-1.3

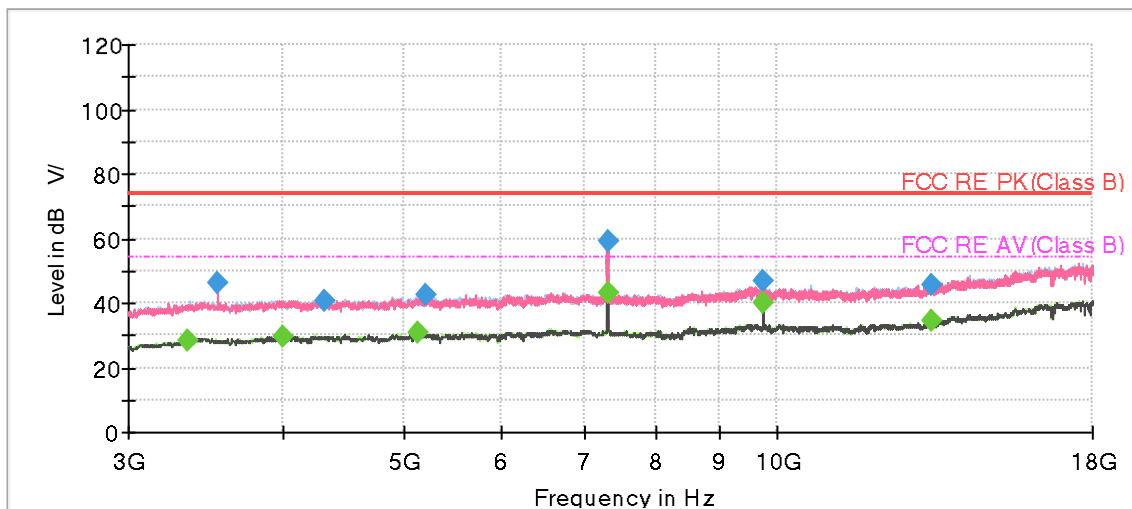
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11g CH6



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



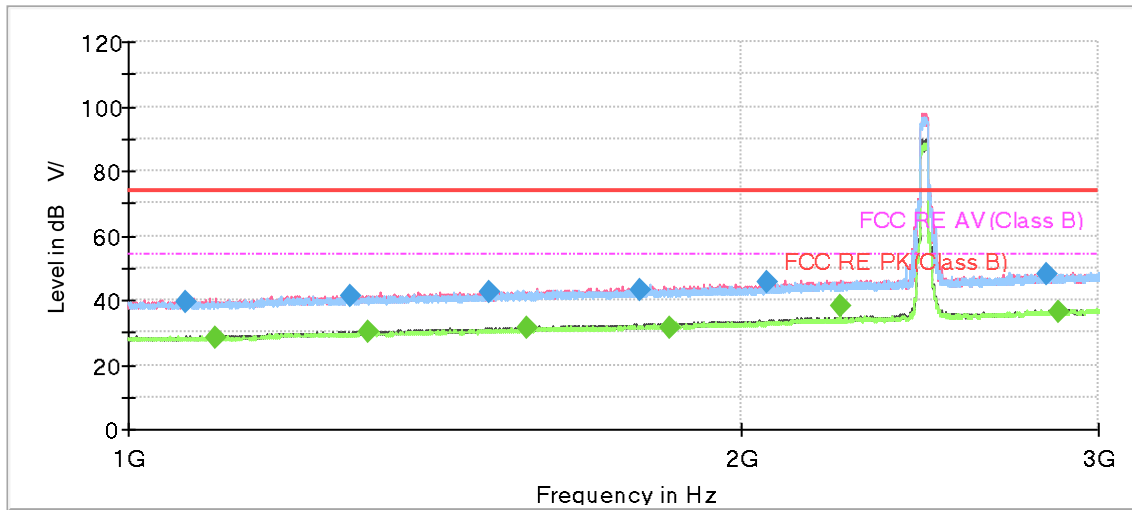
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1055.250000	40.04	---	74.00	33.96	500.0	100.0	V	342.0	-10.4
1176.250000	---	29.08	54.00	24.92	500.0	200.0	V	18.0	-9.3
1393.750000	41.97	---	74.00	32.03	500.0	200.0	H	270.0	-7.6
1419.500000	---	30.80	54.00	23.20	500.0	200.0	V	80.0	-7.4
1655.500000	42.65	---	74.00	31.35	500.0	200.0	V	146.0	-6.1
1737.750000	---	32.23	54.00	21.77	500.0	200.0	V	73.0	-5.8
1865.500000	43.89	---	74.00	30.11	500.0	100.0	H	132.0	-5.1
2048.750000	---	33.65	54.00	20.35	500.0	200.0	V	308.0	-4.2
2125.000000	45.55	---	74.00	28.45	500.0	200.0	V	0.0	-3.6
2239.750000	---	38.63	54.00	15.37	500.0	100.0	V	272.0	-3.2
2769.250000	48.20	---	74.00	25.80	500.0	200.0	H	239.0	-1.4
2774.750000	---	36.51	54.00	17.49	500.0	100.0	V	0.0	-1.4

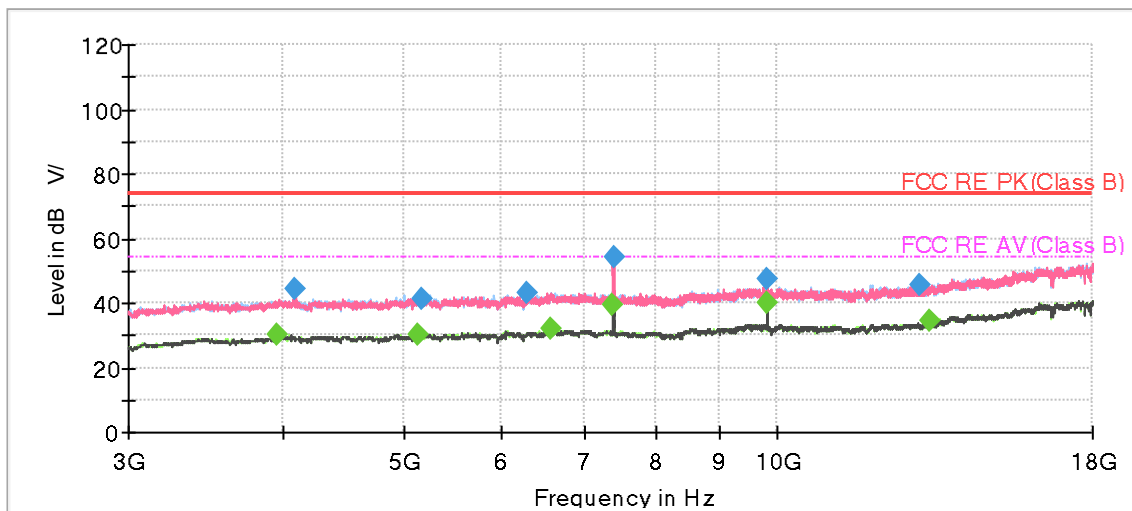
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11g CH11



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



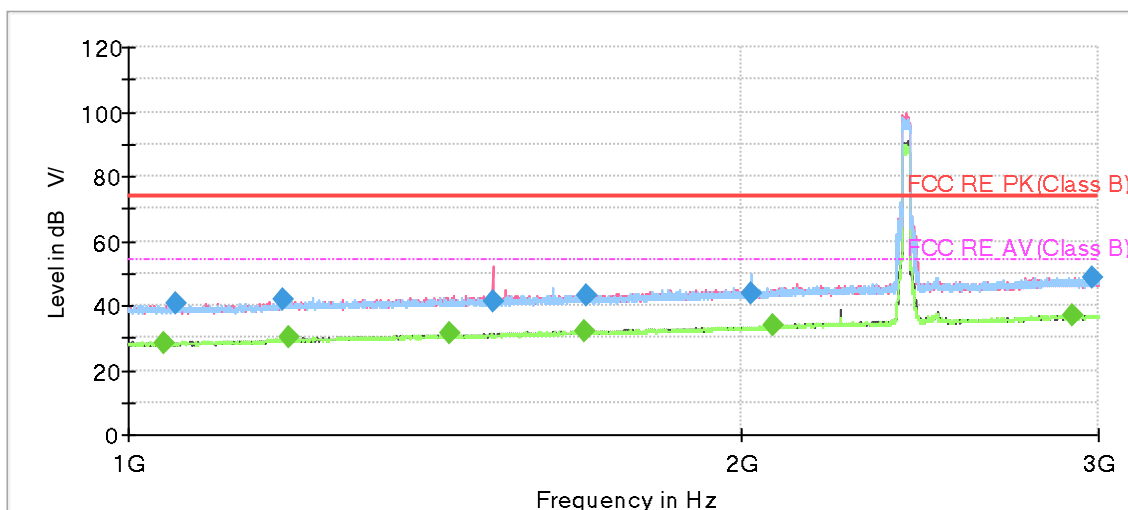
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1067.750000	39.48	---	74.00	34.52	500.0	200.0	H	103.0	-10.3
1103.000000	---	28.43	54.00	25.57	500.0	100.0	V	33.0	-10.0
1287.250000	41.44	---	74.00	32.56	500.0	100.0	V	25.0	-8.3
1312.250000	---	29.98	54.00	24.02	500.0	200.0	V	196.0	-8.1
1506.000000	42.18	---	74.00	31.82	500.0	100.0	H	85.0	-7.0
1570.750000	---	31.18	54.00	22.82	500.0	200.0	V	254.0	-6.6
1786.000000	43.13	---	74.00	30.87	500.0	200.0	V	329.0	-5.5
1846.250000	---	31.69	54.00	22.31	500.0	100.0	V	59.0	-5.2
2062.750000	45.37	---	74.00	28.63	500.0	200.0	V	0.0	-4.1
2239.750000	---	38.45	54.00	15.55	500.0	100.0	V	275.0	-3.2
2826.750000	48.17	---	74.00	25.83	500.0	200.0	V	248.0	-1.1
2870.250000	---	36.19	54.00	17.81	500.0	100.0	V	33.0	-1.1

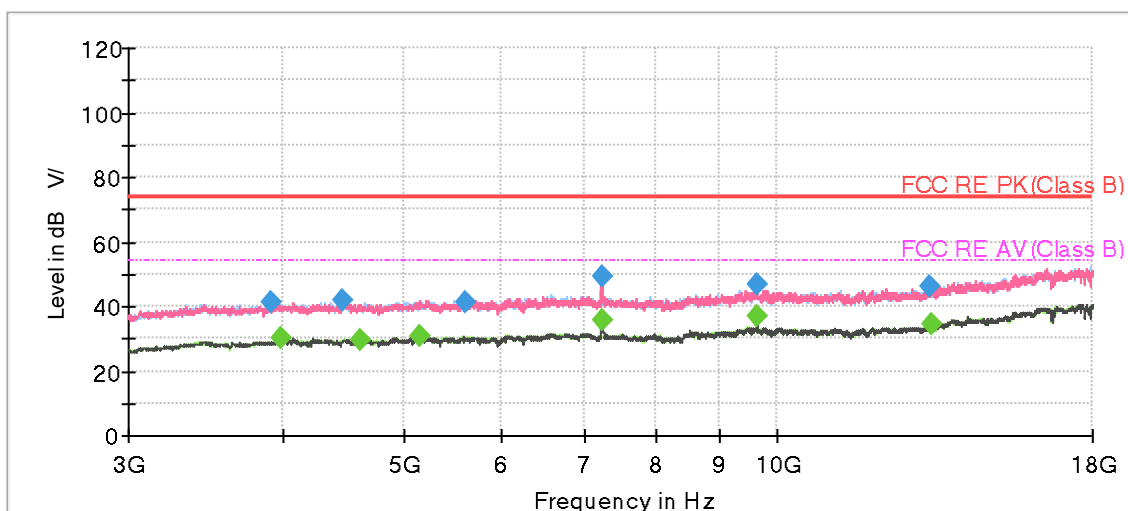
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH1



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



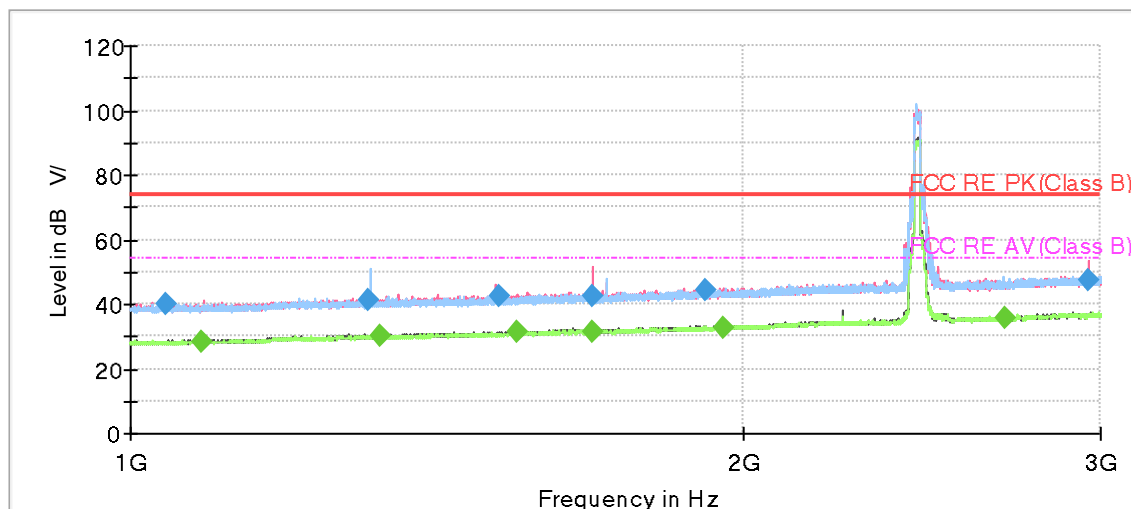
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1041.500000	---	28.30	54.00	25.70	500.0	200.0	V	25.0	-10.5
1054.750000	40.70	---	74.00	33.30	500.0	200.0	H	244.0	-10.5
1191.250000	41.93	---	74.00	32.07	500.0	100.0	H	84.0	-9.0
1199.250000	---	29.85	54.00	24.15	500.0	100.0	H	192.0	-8.8
1438.500000	---	31.16	54.00	22.84	500.0	100.0	V	19.0	-7.3
1510.250000	41.27	---	74.00	32.73	500.0	100.0	H	219.0	-7.0
1678.250000	---	32.17	54.00	21.83	500.0	200.0	V	72.0	-6.1
1680.750000	43.21	---	74.00	30.79	500.0	200.0	H	185.0	-6.0
2025.750000	43.91	---	74.00	30.09	500.0	100.0	H	295.0	-4.4
2077.000000	---	33.95	54.00	20.05	500.0	100.0	V	125.0	-3.9
2914.250000	---	36.97	54.00	17.03	500.0	200.0	H	327.0	-1.0
2977.750000	48.90	---	74.00	25.10	500.0	200.0	V	214.0	-0.7

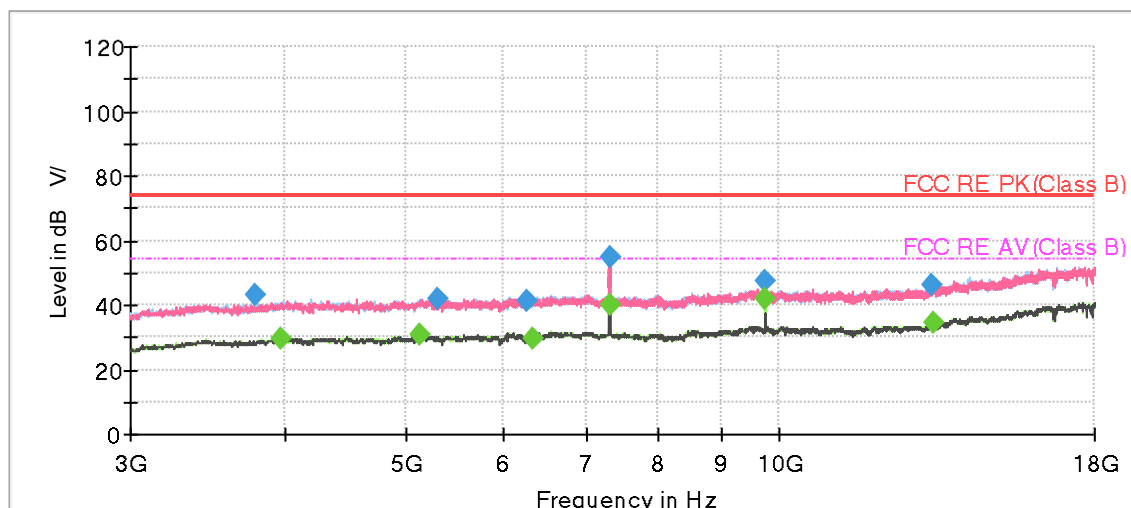
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH6



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



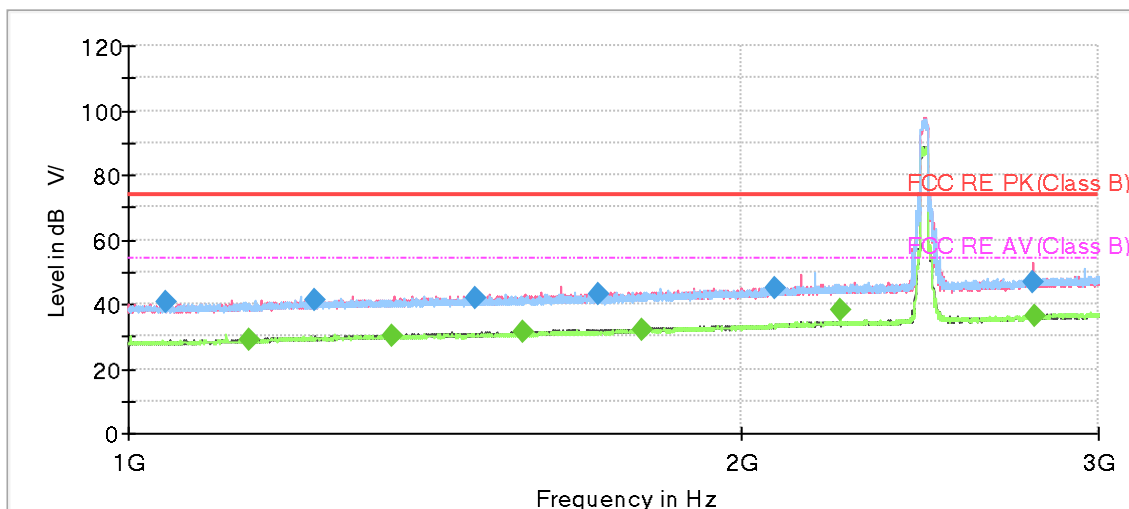
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1042.250000	39.76	---	74.00	34.24	500.0	200.0	V	283.0	-10.5
1084.000000	---	28.38	54.00	25.62	500.0	200.0	V	307.0	-10.2
1309.250000	41.21	---	74.00	32.79	500.0	100.0	H	243.0	-8.1
1327.000000	---	30.38	54.00	23.62	500.0	200.0	V	219.0	-8.0
1518.500000	42.45	---	74.00	31.55	500.0	100.0	H	340.0	-6.9
1550.250000	---	31.43	54.00	22.57	500.0	100.0	V	46.0	-6.7
1687.750000	42.18	---	74.00	31.82	500.0	200.0	V	346.0	-6.0
1688.750000	---	31.45	54.00	22.55	500.0	200.0	V	299.0	-6.0
1918.000000	44.17	---	74.00	29.83	500.0	100.0	V	109.0	-4.9
1958.500000	---	32.36	54.00	21.64	500.0	100.0	V	227.0	-4.7
2691.000000	---	35.50	54.00	18.50	500.0	200.0	V	0.0	-1.7
2958.750000	47.15	---	74.00	26.85	500.0	200.0	H	281.0	-0.8

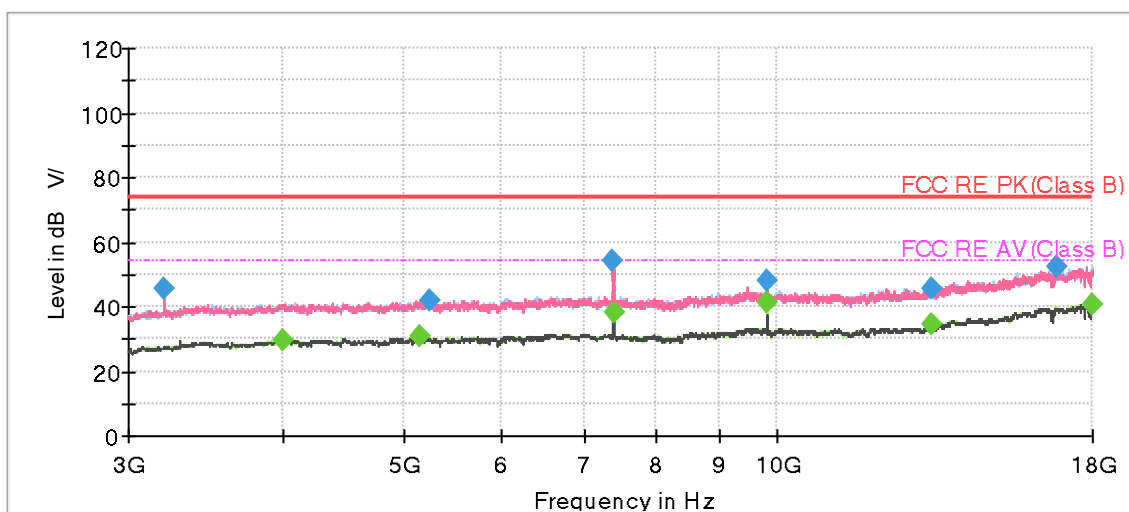
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

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 (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1043.000000	40.33	---	74.00	33.67	500.0	100.0	H	357.0	-10.5
1146.250000	---	28.92	54.00	25.08	500.0	200.0	H	0.0	-9.8
1235.250000	41.05	---	74.00	32.95	500.0	200.0	H	31.0	-8.7
1346.750000	---	30.05	54.00	23.95	500.0	100.0	V	3.0	-8.0
1482.750000	41.82	---	74.00	32.18	500.0	200.0	H	100.0	-7.1
1564.000000	---	31.41	54.00	22.59	500.0	100.0	V	85.0	-6.6
1702.000000	43.30	---	74.00	30.70	500.0	100.0	H	252.0	-6.0
1790.000000	---	32.07	54.00	21.93	500.0	100.0	V	118.0	-5.5
2078.000000	45.05	---	74.00	28.95	500.0	100.0	H	172.0	-3.9
2240.250000	---	38.40	54.00	15.60	500.0	100.0	V	278.0	-3.2
2784.750000	46.81	---	74.00	27.19	500.0	200.0	H	19.0	-1.4
2791.500000	---	36.29	54.00	17.71	500.0	200.0	H	147.0	-1.3

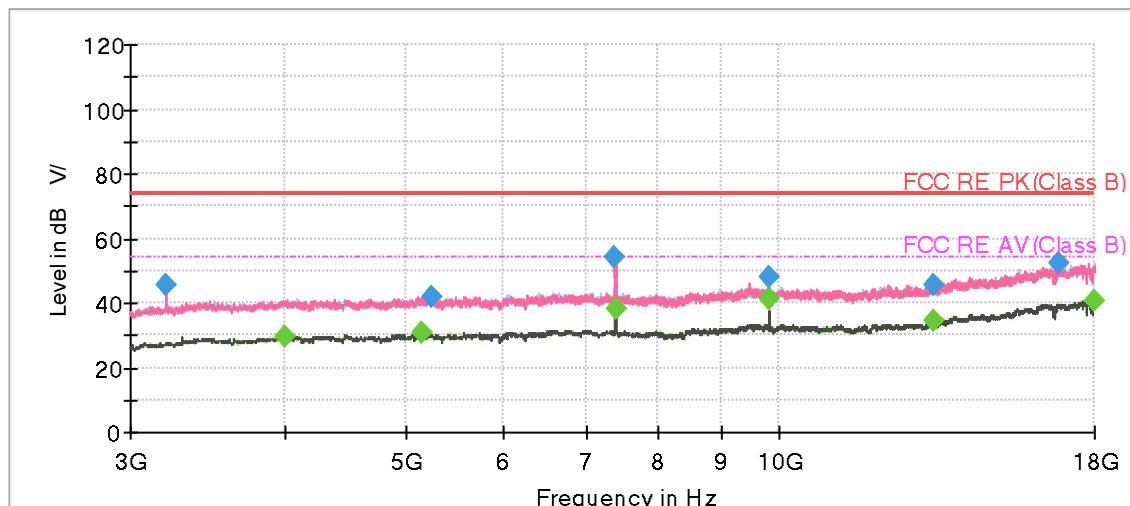
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

Bluetooth LE

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)



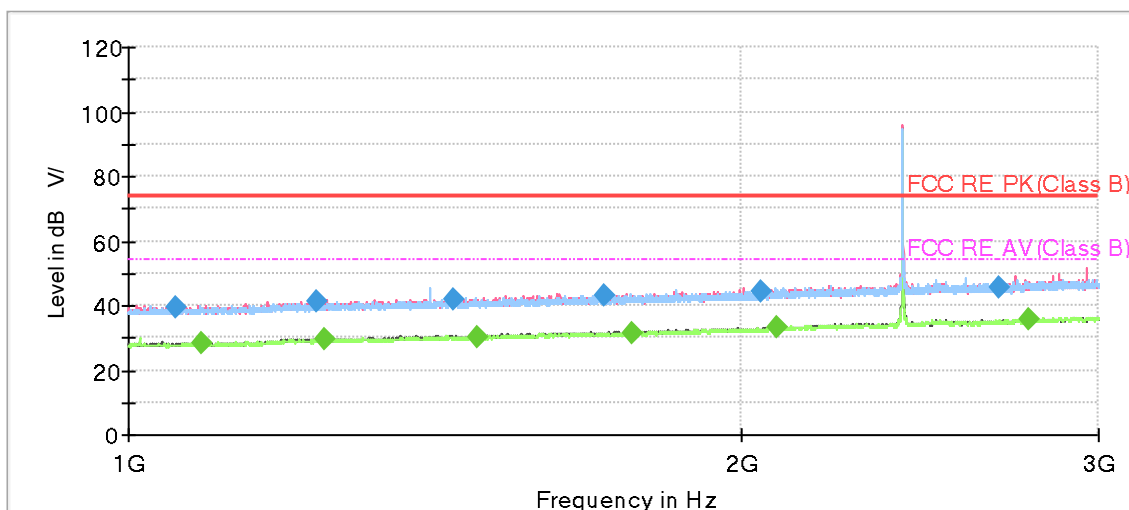
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB $\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
31.252500	21.09	40.00	18.91	100.0	V	37.0	17.2
33.313750	18.69	40.00	21.31	100.0	V	0.0	17.8
55.225000	16.48	40.00	23.52	125.0	H	6.0	20.6
102.743750	14.76	43.50	28.74	100.0	H	293.0	19.2
140.013750	24.77	43.50	18.73	225.0	H	262.0	15.5
174.001250	16.79	43.50	26.71	225.0	V	316.0	20.1

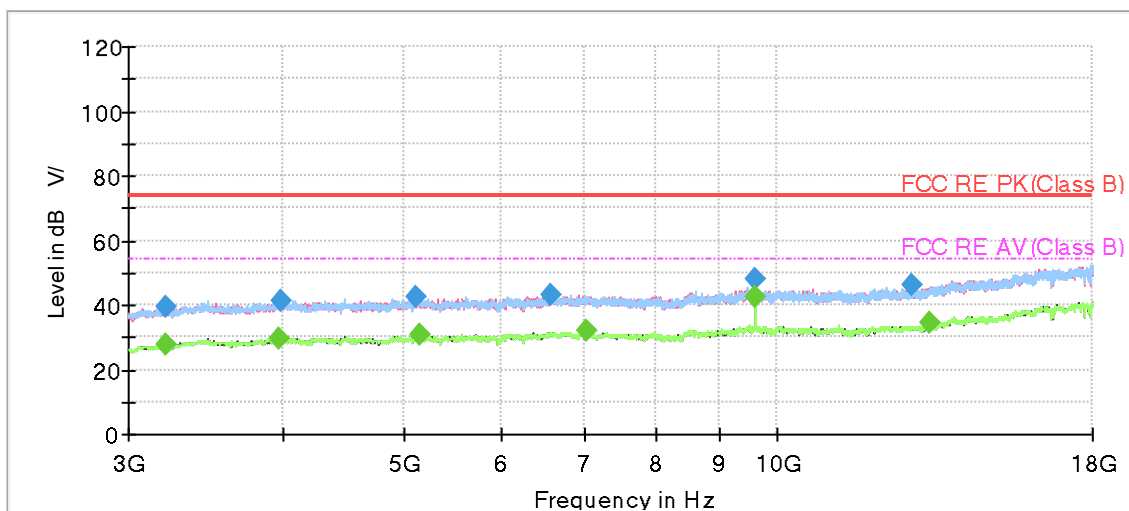
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak

Bluetooth LE-Channel 0



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



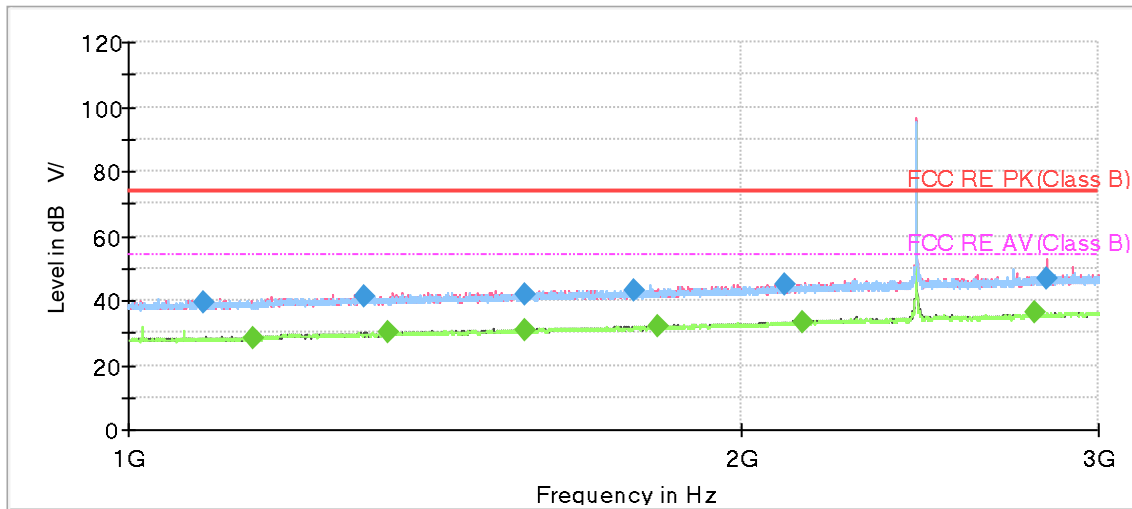
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.250000	39.25	---	74.00	34.75	500.0	100.0	H	0.0	-10.4
1085.500000	---	28.38	54.00	25.62	500.0	200.0	H	146.0	-10.2
1236.750000	41.03	---	74.00	32.97	500.0	100.0	H	246.0	-8.7
1249.750000	---	29.37	54.00	24.63	500.0	200.0	V	114.0	-8.6
1444.000000	41.64	---	74.00	32.36	500.0	200.0	V	106.0	-7.3
1486.250000	---	30.42	54.00	23.58	500.0	100.0	V	114.0	-7.1
1713.250000	43.23	---	74.00	30.77	500.0	100.0	V	2.0	-5.9
1769.500000	---	31.48	54.00	22.52	500.0	100.0	V	17.0	-5.6
2046.000000	44.28	---	74.00	29.72	500.0	100.0	V	51.0	-4.3
2083.500000	---	32.97	54.00	21.03	500.0	200.0	V	176.0	-3.9
2680.000000	45.74	---	74.00	28.26	500.0	200.0	V	176.0	-1.8
2773.500000	---	35.72	54.00	18.28	500.0	100.0	V	168.0	-1.4
9607.500000	---	42.52	54.00	11.48	500.0	200.0	H	324.0	-0.7

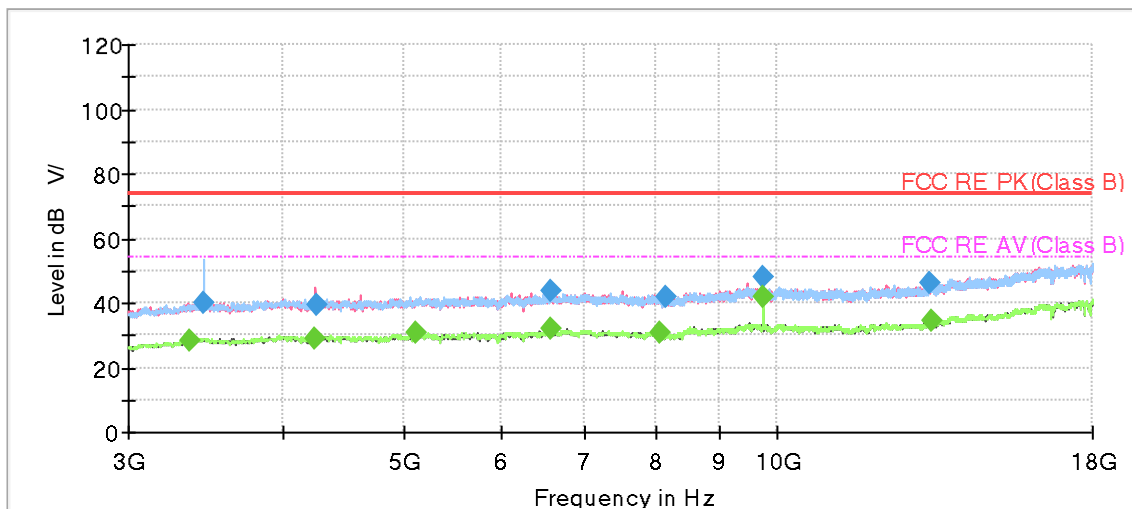
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

Bluetooth LE-Channel 19



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



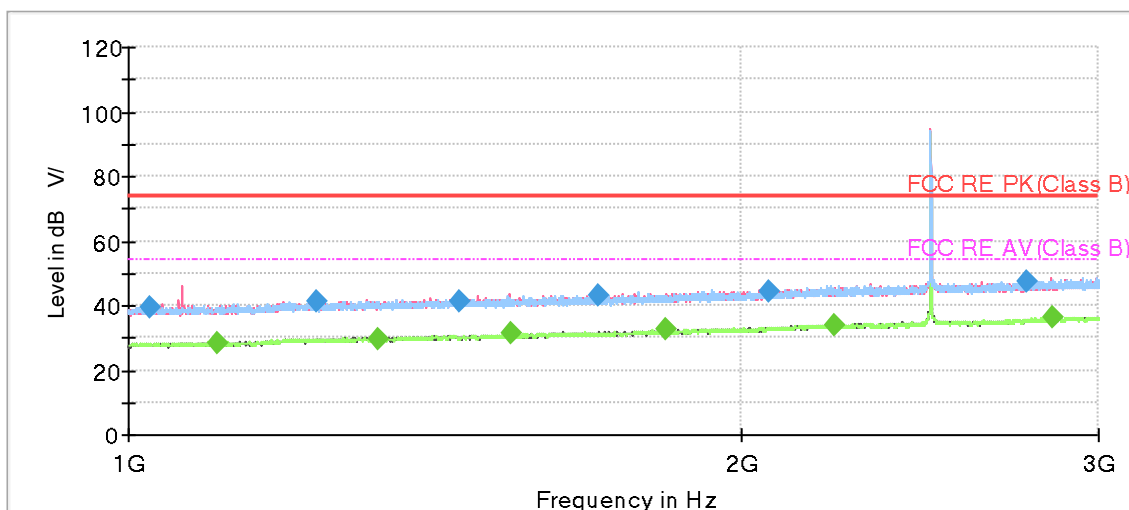
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1090.250000	39.09	---	74.00	34.91	500.0	200.0	V	182.0	-10.2
1152.750000	---	28.57	54.00	25.43	500.0	200.0	H	1.0	-9.8
1305.500000	40.96	---	74.00	33.04	500.0	200.0	V	72.0	-8.1
1341.000000	---	29.98	54.00	24.02	500.0	100.0	H	314.0	-8.0
1567.500000	---	30.56	54.00	23.44	500.0	200.0	V	182.0	-6.6
1568.250000	41.96	---	74.00	32.04	500.0	100.0	V	139.0	-6.6
1774.750000	43.31	---	74.00	30.69	500.0	200.0	V	297.0	-5.6
1822.000000	---	32.20	54.00	21.80	500.0	100.0	H	353.0	-5.3
2101.750000	44.85	---	74.00	29.15	500.0	100.0	H	334.0	-3.7
2147.250000	---	33.22	54.00	20.78	500.0	200.0	V	358.0	-3.5
2790.250000	---	36.05	54.00	17.95	500.0	100.0	V	43.0	-1.3
2831.750000	46.75	---	74.00	27.25	500.0	100.0	V	82.0	-1.1

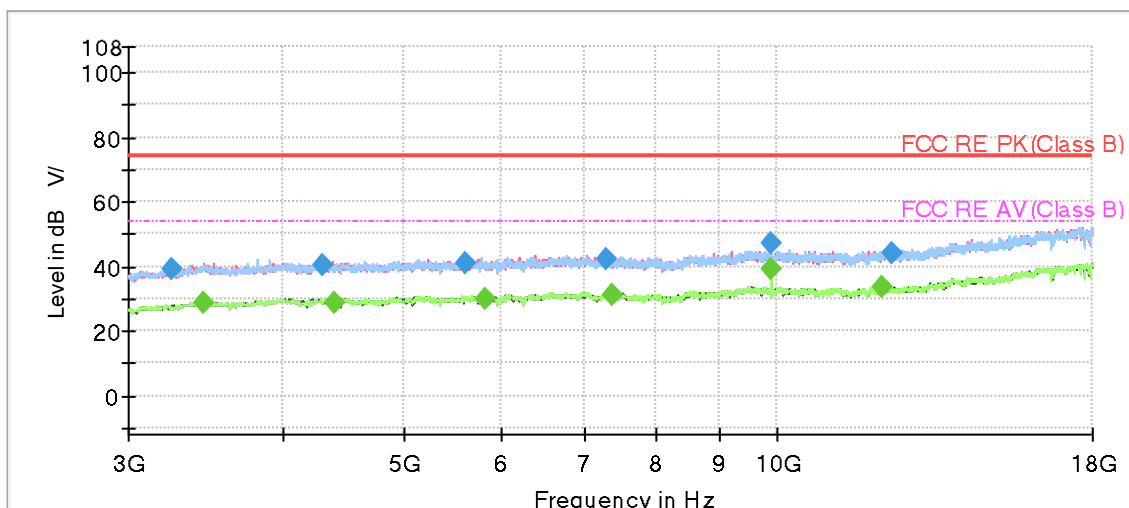
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

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 (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1024.750000	39.39	---	74.00	34.61	500.0	100.0	H	265.0	-10.6
1106.000000	---	28.21	54.00	25.79	500.0	100.0	H	127.0	-10.0
1237.250000	41.16	---	74.00	32.84	500.0	200.0	V	0.0	-8.6
1326.750000	---	29.75	54.00	24.25	500.0	100.0	H	354.0	-8.0
1456.000000	41.12	---	74.00	32.88	500.0	100.0	H	354.0	-7.2
1541.750000	---	31.31	54.00	22.69	500.0	100.0	H	249.0	-6.8
1701.250000	42.86	---	74.00	31.14	500.0	100.0	H	16.0	-6.0
1837.500000	---	32.41	54.00	21.59	500.0	100.0	H	233.0	-5.2
2066.250000	44.24	---	74.00	29.76	500.0	200.0	H	211.0	-4.1
2225.000000	---	33.77	54.00	20.23	500.0	200.0	V	355.0	-3.2
2766.000000	47.61	---	74.00	26.39	500.0	200.0	H	40.0	-1.5
2849.750000	---	36.02	54.00	17.98	500.0	100.0	V	16.0	-1.1

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

2. Margin = Limit –MAX Peak/ Average

5.7. Conducted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

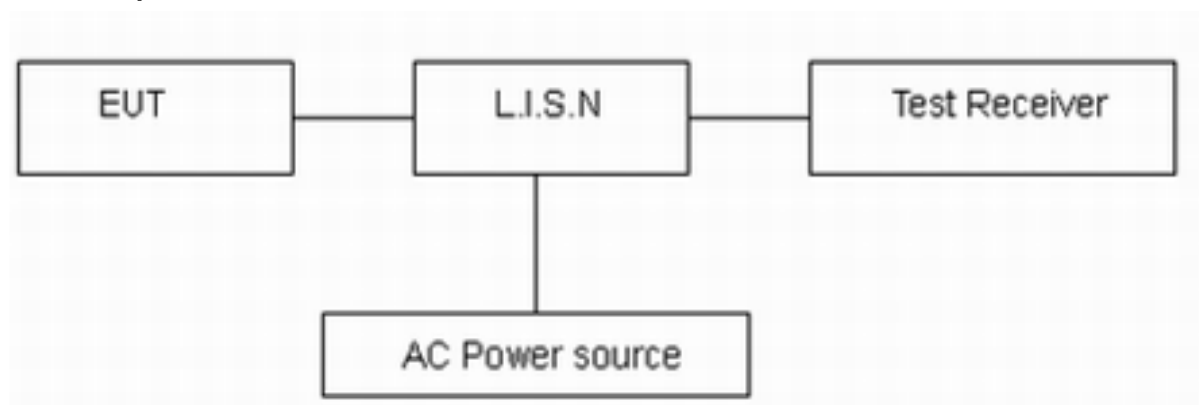
Methods of Measurement

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(dB μ V)	
	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:

The equipment is installed in the car and cannot be directly or indirectly connected to the public network, so test items do not apply.

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
RF cable	Wuhan Champion Electronics	LA810-NM SM-7.5M	24067755	2024-12-14	2025-12-13
RF cable	Wuhan Champion Electronics	LA810-NM NM-2M	24065754	2024-12-14	2025-12-13
Power sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2024-05-07	2025-05-06
DC Power Supply	UNI-T	UTP1306S +	2205D0517426	2024-12-02	2025-12-01
Attenuator	HASCO	HA18A-10	0003	/	/
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	MWPA.CN	MWLA-010 200G40	YQ2103039B01	2024-05-07	2025-05-06
Software	R&S	EMC32	9.26.01	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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